

# Warrenton Planning Commission AGENDA August 12, 2021 I 6 PM I City Hall – Commission Chambers

\*\*\*The meeting will be broadcast via Zoom at the following link\*\*\*

https://us02web.zoom.us/j/89594092173?pwd=VG5sMFFTVExqTWI1dXVXSTBFbWw2UT09

Meeting ID: 895 9409 2173

Passcode: 612659

Dial in number: 253-215-8782

- 1. Attendance
- 2. Flag Salute
- 3. Public Comment Period on Non-Agenda Items
- 4. Approval of minutes of May 13, 2021
  - Action Item: Motion to Adopt
- 5. **PUBLIC HEARING:** Consolidated Application SUB-21-1/SDR-21-1 Subdivision and Residential Site Design Review
  - Applicant: Jetty Street, LLC
  - Proposal: Nine-unit Jetty View subdivision to develop three townhome structures, each with three attached single-family dwellings. The proposed development is located on Tax Lot 81005CD03500, at 444 Jetty Street. The subject property is zoned Commercial-Mixed Use (C-MU)
  - Action Item: Recommendation to approve with conditions
- 6. **PUBLIC HEARING:** SDR-21-2 Commercial Site Design Review
  - Applicant: Kyle Langeliers on behalf of Warrenton Fiber Company, David Nygaard and John Nygaard
  - Proposal: New 27,550-square-foot building and site improvements for a Roby's
    Furniture Store. The proposed development is located on Tax Lot 81027AB06400
    on the north side of Highway 101 Business west of SE Marlin Avenue. The subject
    property is zoned General Commercial (C-1)
  - Action Item: Recommendation to approve with conditions

## **WITHDRAWN**

- 7. PUBLIC HEARING: SDR-21-3 Commercial Site Design Review
  - Applicant: Greta Holstrom/Ardor Consulting, LLC on behalf of Fuiten West Partnership
  - Proposal: New 13,607-square-foot building for the Medix ambulance dispatch facility. The proposed development is located on Tax Lot 81033AA01100 at 2325
     SE Dolphin Avenue. The subject property is zoned General Industrial (I-1)
  - Action Item: Recommendation to approve with conditions
- 8. Staff Announcements & Project Updates
- 9. **Next Meeting:** September 9, 2021

MINUTES
Warrenton Planning Commission
May 13, 2021
6:00 p.m.
Warrenton City Hall - Commission Chambers
225 S. Main
Warrenton, OR 97146

Chair Paul Mitchell called the meeting to order at 6:03 p.m. and led the public in the Pledge of Allegiance.

<u>Commissioners Present:</u> Chair Paul Mitchell, Kevin Swanson (via Zoom), Christine Bridgens, Mike Moha, Ken Yuill, and Lylla Gaebel (via Zoom)

**Excused:** Commissioner Chris Hayward

<u>Staff Present:</u> Interim City Planner Will Caplinger (via Zoom) and Secretary Rebecca Sprengeler.

PUBLIC COMMENT ON NON-AGENDA ITEMS - None

## APPROVAL OF MINUTES

A. Planning Commission Meeting Minutes – 4.8.21

Commissioner Yuill made the motion to approve the minutes as written from April 8th. Motion was seconded by Commissioner Bridgens and passed by majority.

Mitchell – aye; Swanson – aye; Bridgens – aye; Moha – aye; Yuill – aye; Gaebel - abstained

Commissioner Gaebel noted that she abstained because she was not in attendance at the April meeting.

## **PUBLC HEARING**

Chair Mitchell opened the public hearing for the matter of Major Modification MC20-21 Site Design and Conditional Use Review for commercial development located in Youngs Bay Plaza, at 103 Highway 101, Warrenton. Formalities followed and no conflicts of interest were disclosed. Commissioner Yuill disclosed an ex parte contact that he has looked at the site but feels it will not affect his decision.

Interim City Planner Will Caplinger reviewed the staff report on the Major Modification MC20-21 Site Design and Conditional Use Review for Baysinger Partners Architecture on behalf of Atlas Youngs Bay, LLC. There are four modifications that will eliminate the previously approved new pad building, relocate the previously approved pick-up window and the que to the existing building, move trash enclosures, and eliminate the previously approved three parking

stalls in front of the pump station. A Type III review by the Planning Commission was triggered by a change in the type and/or location of access ways, drives or parking areas that affect off-site traffic. Mr. Caplinger stated that although the proposed modifications may result in a reduction in off-site traffic, the code language does not qualify the term, "affect" as positive or negative. Staff reasoned that the scope of the project encompasses the community's concern over drive-through developments, and that the Planning Commission should be afforded the opportunity to review the modification proposal. Staff recommends approval of MC-20-21, subject to the condition of approval that the effective date of expiration for MC-20-21 and SDR 20-3/CUP 20-1 shall be May 19, 2022.

Commissioner Gaebel asked if the pick-up window is still strictly preorder. Mr. Caplinger noted the pick-up window will only serve one of the restaurants; it will be for preorder and pick up only. Commissioner Gaebel noted traffic concerns. Commissioner Yuill asked for an update on ODOT's (Oregon Department of Transportation) recommended improvements to East Harbor Drive. Mr. Caplinger responded that nothing has been submitted to the City or agreed upon yet. Discussion about ODOT continued. Mr. Caplinger noted he will look into an update on ODOT recommendations.

William Rueker, with Baysinger Partners Architecture, thanked Mr. Caplinger and gave a brief history of the project. He confirmed the pick-up window remains as such. The average time in the drive-through is one minute and twenty-eight seconds. The drive-through configuration changed to wrap around the building, preventing traffic from backing up onto East Harbor Drive. He thanked the City for their assistance on the drive-through layout and trash location. They will be planting the required street trees. The applicant is continuing to work with ODOT. Chair Mitchell asked about the anticipated number of cars going through the drive-through during peak hours. Mr. Rueker responded that this is a quick, casual, Mexican restaurant. The other restaurant will serve pizza and will not be using the drive-through. Discussion continued. Mr. Rueker thanked Mr. Caplinger for his thorough review.

No one spoke in favor or opposition of the applicant. Chair Mitchell closed the public hearing.

Chair Mitchell asked about traffic studies for this project. He discussed concerns about traffic during peak hours. Mr. Caplinger noted he is not aware of any traffic studies for diners in the area. He stated there was a traffic study done and then a memo updated for that; this was generally based on the kind of traffic that you get for restaurants of a certain size. Commissioner Moha noted the traffic data is contained in the agenda packet on the transportation memo from Lancaster Mobley date March 4, 2021. Discussion followed. Commissioner Swanson noted traffic concerns about having a driveway on East Harbor Drive. Chair Mitchell discussed his concern of having traffic issues similar to Wendy's. Commissioner Swanson made similar comments about Wendy's traffic concerns. Commissioner Moha noted there was similar discussion before Wendy's was built; this project is smaller than Wendy's. Commissioner Yuill noted he would feel more comfortable making a decision after seeing what ODOT's proposal. He does not want to see another 'Wendy's situation.' Discussion about traffic issues continued. Chair Mitchell noted he has no problem with the conditions. He stated that he would like to make it a condition that ODOT and Public Works Director, Collin Stelzig feel good about the traffic study and what it will mean. Commissioner Gaebel noted her 'no' vote last time because of the

traffic impact. She feels there should be a new traffic impact study. Chair Mitchell asked if the ODOT study is still part of the conditions of approval. Mr. Caplinger noted it is condition of approval number one and is still in effect. He noted that the decision today is only for site modification. It may not be correct or legal to apply other conditions that are not part of what the applicant is proposing to modify, especially because they are decreasing traffic by eliminating the main pad building. Part of the applicant's request for extension is because of slow progress with the City and ODOT. This will still have to come back and be approved by the City. Building cannot begin until the conditions of approval are met.

Commissioner Moha made the motion to approve the Major Modification of an Approved Site Design Review and Conditional Use Review SDR 20-3/CUP 20-1, for Youngs Bay Plaza, located at US Highway 101 and East Harbor Drive, based on the findings in the staff report, Conditions of Approval, and discussion. Motion was seconded by Commissioner Bridgens. The motion failed.

Mitchell – aye; Swanson – nye; Bridgens – aye; Moha – aye; Yuill – nye; Gaebel – nye

Chair Mitchell noted that this vote is just on the Site Design. ODOT is not a part of this issue. Discussion followed. Mr. Caplinger confirmed that this vote is just for approval of the four modifications in the staff report. If this motion fails, there will be an administrative decision to extend the application deadline. Commissioner Swanson noted that because this does not involve ingress or egress, he would like to change his vote.

Commissioner Bridgens made the motion to approve the Major Modification of an Approved Site Design Review and Conditional Use Review SDR 20-3/CUP 20-1, for Youngs Bay Plaza, located at US Highway 101 and East Harbor Drive, based on the findings in the staff report, Condition of Approval, and discussion. Motion was seconded by Commissioner Moha and passed by majority.

Mitchell – aye; Swanson – aye; Bridgens – aye; Moha – aye; Yuill – aye; Gaebel – nye

## STAFF ANNOUNCEMENTS & PROJECT UPDATES

Mr. Caplinger noted several pending projects including Trillium House project, Scoular Company development, the Food Pod designs, a tiny house project, a reroofing request for historic house in Ft. Stevens, and a Pacific Power fiber optics upgrade. There are many questions coming in. He noted a pre application meeting for establishing a coffee kiosk in the Premark center that will be coming to the Planning Commission soon. There was brief discussion about the tiny house project.

Chair Mitchell noted his participation in the new City Planner interviews. He briefly discussed the applicants. This is the first time the City has allowed the Planning Commission to be involved in the interview process.

Commissioner Gaebel noted that as a member of the Economic Development Committee she attended the recent TAC (Tactical Analysis Committee) meeting; attendance was sparse. The

current EOA (Economic Opportunity Analysis) draft will be going out for feedback from all citizens; it must be completed by the end of June. There will be another TAC meeting. She hopes that all Planning Commissioners will provide their input. Brief discussion followed.

There being no further business, Chair Mitchell adjourned the meeting at 7:01 p.m.

Next M	<b>eeting:</b> June 10, 2021
	APPROVED:
ATTEST:	Paul Mitchell, Chair
Rebecca Sprengeler, Secretary	



P.O.BOX 250 WARRENTON, OR 97146 -0250 OFFICE: 503.861.2233 FAX: 503.861.

August 3, 2021

To: Warrenton Planning Commission From: Will Caplinger, Interim City Planner

Re: Subdivision Application SUB-21-1 and Site Design Review Application SDR-21-1

## **BACKGROUND**

On June 23, 2021, Jetty Street, LLC submitted the applications listed above for a 0.59-acre undeveloped property at 444 Jetty Avenue, Tax Lot 81005CD03500, located on the south side of 4<sup>th</sup> Avenue, an undeveloped street. The applicant proposes Jetty View Townhomes, a nine-unit residential subdivision consisting of three standalone townhome buildings, each containing three single-family dwellings on individual lots.

Warrenton Municipal Code (WMC) Section 16.208.070.D.2 requires the review and decision of the two applications to be consolidated according to these provisions:

- 2. <u>Consolidation of Proceedings</u>. When an applicant applies for more than one type of land use or development permit (e.g., Type II and III) for the same one or more parcels of land, the proceedings shall be consolidated for review and decision.
- a. If more than one approval authority would be required to decide on the applications if submitted separately, then the decision shall be made by the approval authority having original jurisdiction over one of the applications in the following order of preference: the City Commission, the Planning Commission, or the Community Development Director.
- b. When proceedings are consolidated:
  - i. The notice shall identify each application to be decided;
  - ii. The decision on a plan map amendment shall precede the decision on a proposed land use district change and other decisions on a proposed development. Similarly, the decision on a zone map amendment shall precede the decision on a proposed development and other actions; and
  - iii. Separate findings and decisions shall be made on each application.

Hence, the Planning Commission is the hearing body and the staff findings and recommendations for each application are separated in the staff report, beginning with the subdivision. Findings that apply to both applications and are identical are cross-referenced.

The applications were deemed complete on July 13, 2021. Initial notices for pending separate Type II and Type III decisions were mailed on July 20, 2021, and a revised notice for a consolidated Type

II/Type III review was mailed on July 29, 2021. A notice for the August 12, 2021 public hearing on the consolidated application by the Planning Commission was published in the Astorian on July 31, 2021. No public comments have yet been received.

Previous staff reports have typically reproduced and focused on questions from the application form and applicant's responses, but the application form questions and responses do not demonstrate compliance with the specific criteria and standards. Applicant's responses are included in the discussions following the Staff Finding as appropriate, and the application form with applicant's responses is attached to the staff report for reference.

The primary purpose and intent of the staff report is to make findings on whether the application satisfies criteria and standards specified in the WMC, in that the City maintains consistency with Comprehensive Plan provisions through the enactment and application of land use regulations. Hence, the staff report adheres to the WMC chapter order listed below.

## **Subdivision Application SUB-21-1**

## APPLICABLE CRITERIA AND STANDARDS

Chapter 16.44 Commercial-Mixed Use (C-MU) District

Chapter 16.116 Design Standards

Chapter 16.120 Access and Circulation

Chapter 16.124 Landscaping, Street Trees, Fences, and Walls

Chapter 16.128 Vehicle and Bicycle Parking

Chapter 16.136 Public Facilities Standards

Chapter 16.140 Stormwater and Surface Water Management

Chapter 16.152 Grading, Excavating, and Erosion Control Plans

Chapter 16.184 Single-Family Attached, Duplex, and Triplex Design Standards

Chapter 16.208 Types of Applications and Review Procedures

Chapter 16.216 Land Divisions and Lot Line Adjustments

<u>FINDINGS</u> (Staff Findings are presented immediately following respective criteria. Discussions supporting findings follow at the bullet points)

## Chapter 16.44 Commercial-Mixed Use (C-MU) District

#### 16.44.020 Permitted Uses

## A. Residential.

2. Duplex, townhome, triplex, multifamily and rowhouse with garage (attached or detached) in accordance with Chapter 16.180 and subject to standards of Chapter 16.184.

Staff Finding: This criterion is met.

- The proposed project consists of three structures, each containing three single-family attached townhomes on individual lots. By WMC definition, the 3-unit structures are essentially triplexes, but they have common side walls rather than common end walls:
  - Single-Family Attached (Duplex, Townhome, Triplex, Rowhouse): Two (duplex, townhome) or more (triplex, rowhouse) single-family dwellings with common end walls.
- The subdivision as proposed is a permitted use.

## 16.44.040 Development Standards.

- A. Density Provisions.
  - 2. *Minimum lot size, residential uses: same as in Section 16.36.040.*
  - 5. Minimum lot width at the front building line, residential uses: same as in Section 16.36.040.
  - 7. Minimum lot depth, residential uses: same as in Section 16.36.040.
- 10. Lot coverage—Residential uses: Not more than 55% of the lot area shall be covered by buildings... Staff Finding: These criteria are met.
  - It is relevant to consider that these criteria fall under "Density Provisions." The applicant also stated that, "...my intent in the narrative was to show that the density allowed to us was actually closer to 15 units; we have elected to go with larger units themselves and less total units, which will be a net total benefit in terms of impacts to the neighborhood and infrastructure. In total, we are developing 40% less than what could be allowed."
  - Section 16.36.040.A.2 requires a minimum lot size of 2500 square feet per unit for a townhome or rowhouse. The minimum lot width is 25 feet per unit, and the minimum lot depth is 70 feet.
  - The applicant states that, "each lot will own a 1/9th undivided interest of the common area lot [Tract A], which will be enjoyed by all of the owners. This combined with each legal lot of record results in a total individual ownership of 5,648 to 5,679 square feet, exceeding the minimum lot size of 2,500." Following this logic, the width of the development, including the common area lot, is 227.17 feet, which averages 25.24 feet of width per individual ownership. Each individual lot exceeds the minimum lot depth of 70 feet.
  - The building footprints range between approximately 876 square feet to 886 square feet, well below the 55% maximum coverage standard.
  - Since Tract A will not be dedicated to the public or to another entity, but will be under common ownership, applicant's logic meets the intent of the criteria, if not the letter. The development is consistent with the Development Standards, in that a liberal interpretation of the standards does not conflict with the #1 policy stated in the Purpose section of the C-MU District, to "Use land and urban services efficiently".
  - B. <u>Setback Requirements (Residential and Multiple Uses).</u>
    - 1. *Minimum front yard setback: 15 feet. (residential); none (multiple uses)*
    - 2. Minimum side yard setback: 8 feet.
    - 3. Minimum corner lot street side yard setback: 8 feet.
    - 4. Minimum rear yard setback: 15 feet except accessory structures that meet the criteria of Section 16.280.020 may extend to within five feet of a rear property line.

Staff Finding: These criteria are met.

• The setbacks meet or exceed the requirements and are indicated on the attached Jetty View Site Plan.

## 16.44.050 Other Applicable Standards.

- E. All uses will comply with access and parking standards in Chapter 16.128 except as may be permitted by conditional use or variance.
- H. All other applicable Development Code requirements will also be satisfied; and all new sewer and water connections for a proposed development shall comply with all City regulations.

Staff Finding: These criteria are discussed under other chapters.

- Access and parking standards are addressed under Chapter 16.120 Access and Circulation.
- Sewer and water connections are addressed under Chapter 16.136 Public Facilities Standards.

## Chapter 16.116 Design Standards

## 16.116.020 Applicability.

Staff Finding: Detailed findings follow in the chapters as they apply to a subdivision.

• The Applicability section states that, "Some developments, such as major projects requiring land division and/or site design review approval, may require detailed findings demonstrating compliance with each chapter of the Code."

## Chapter 16.120 Access and Circulation

#### 16.120.020 Vehicular Access and Circulation.

- B. <u>Applicability</u>. This chapter shall apply to all transportation facilities and improvements (e.g., public and private streets, driveways, multi-use paths, etc.) within the City and to all properties that abut these facilities. Additional standards can be found in Chapter 16.136, Public Facilities Standards.
- F. <u>Access Options</u>. When vehicle access is required for development (i.e., for off-street parking, delivery, service, drive-through facilities, etc.), access shall be provided by one of the following methods (a minimum of 10 feet per lane is required). These methods are "options" to the developer/subdivider, unless one method is specifically required under Division 2, or through conditions required by the hearings body.
  - 2. <u>Option 2</u>. Access is from a private street or driveway connected to an adjoining property that has direct access to a public street (i.e., "shared driveway"). A public access easement covering the driveway shall be recorded in this case to assure access to the closest public street for all users of the private street/drive.

## Staff Finding: This criterion is met.

- The preliminary plat indicates a Shared Access Easement on the south side of the development that provides access to Jetty Street. The easement is recorded as Instrument No. 200503426.
- I. <u>Shared Driveways</u>. The number of driveway and private street intersections with public streets shall be minimized by the use of shared driveways with adjoining lots where feasible. The City shall require shared driveways as a condition of land division, development review, or site design review, as applicable, for traffic safety and access management purposes in accordance with the following standards:
  - 1. Shared driveways and frontage streets may be required to consolidate access onto a collector or arterial street. When shared driveways or frontage streets are required, they shall be stubbed to adjacent developable parcels to indicate future extension. "Stub" means that a driveway or street temporarily ends at the property line, but may be extended in the future as

the adjacent parcel develops. "Developable" means that a parcel is either vacant or it is likely to receive additional development (i.e., due to infill or redevelopment potential).

2. Access easements (i.e., for the benefit of affected properties) shall be recorded for all shared driveways, including pathways, at the time of final plat approval (Chapter 16.216) or as a condition of development review or site development approval (Chapter 16.212).

Staff Finding: These criteria are met.

- 1. The shared access easement on the south side of the development could not be extended in the future because of an existing building on the adjacent parcel to the east. The 4<sup>th</sup> Avenue frontage will be stubbed as illustrated in Jetty Street Improvement Plan (Right-of-Way Improvements, Sheet C6).
  - 2. The shared access easement was recorded as Instrument No. 200503426.
- K. <u>Driveway Openings and Widths</u>. Driveway openings (or curb cuts) shall be the minimum width necessary to provide the required number of vehicle travel lanes (10 feet for each travel lane). The following standards (i.e., as measured where the front property line meets the sidewalk or right-ofway) are required to provide adequate site access, minimize surface water runoff, and avoid conflicts between vehicles and pedestrians:
  - 3. Multiple-family uses with eight or more dwelling units shall have a minimum driveway width of 24 feet, and a maximum width of 30 feet. These dimensions may be increased if the Community Development Director, City-appointed engineer, or Planning Commission determines that more than two lanes are required based on the number of trips generated or the need for turning lanes.
  - 4. Access widths for all other uses shall be based on 10 feet of width for every travel lane, except that driveways providing direct access to parking spaces shall conform to the parking area standards in Chapter 16.128.
  - 5. <u>Setback Required</u>. A minimum five-foot setback from the edge of driveway to any property line is required. The setback area shall be kept free of impervious surfaces at all times and shall be vegetated to minimize surface water runoff to adjoining properties.

Staff Finding: These criteria are partially met and will be completely met by a condition of approval.

- Although the development proposes nine dwelling units, it is not a multiple-family use by definition (4 or more dwelling units per building). Nonetheless, the Road Notes on the attached Jetty Street Improvement Plan (Right-of-Way Improvements, Sheet C6) indicate a driveway cutout width of 25 feet. A condition of approval will require two travel lanes each at 10 feet wide to be established and maintained within the access easement.
  - Criterion No. 5 cannot be applied since the existing recorded access easement, which also provides access to developed properties on the south side of the block, encumbers and has been developed over the property lines of five adjacent underlying lots in south half of Block 9 of the First Addition to Kindred Park Subdivision.
- L. <u>Fire Access and Circulation</u>. The City of Warrenton adopts the Uniform Fire Code, as amended, including administrative sections and all appendices and all the State of Oregon revisions. All development in the City of Warrenton is required to meet these minimum adopted standards.
  - 1. <u>Required Access</u>. A fire equipment access drive that meets City construction standards shall be provided for any portion of an exterior wall of the first story of a building that is

located more than 150 feet from an improved public street or approved fire equipment access drive. Plans for fire apparatus access roads shall be submitted to the Warrenton Fire Department and Warrenton City-appointed engineer for review and approval prior to issuance of building permits, grading permits, or start of construction. When fire apparatus access road(s) are required, the road(s) shall be installed and made serviceable prior to and during time of construction. Fire department access roads shall be provided and maintained in accordance with the fire department access requirements of the Uniform Fire Code, as amended.

- 2. <u>Dimensions</u>. Fire apparatus roads shall have an unobstructed width of not less than 20 feet and unobstructed vertical clearance of not less than 13 feet 6 inches. Fire apparatus roads shall be designed and maintained to support the imposed loads of fire apparatus and shall be provided with a surface so as to provide all-weather driving capabilities.
- 3. <u>Turnaround Required</u>. Dead-end fire apparatus roads in excess of 150 feet shall be provided with approved provisions for the turning around of fire apparatus. See Table 16.136.010 for minimum standards.

Staff Finding: This criterion will be met with a condition of approval requiring the Fire Chief's approval of the alternative hammerhead.

• The applicant has stated that, "4th and Jetty will be the main fire access roads. Hydrants are shown on each. The shared private [access easement] will not be fire access." The Jetty Street Improvement Plan (Right-of-Way Improvements, Sheet C6) shows a hammerhead turnaround at the east end of the 4<sup>th</sup> Avenue frontage that is intended to comply with the "Acceptable Alternative to 120' Hammerhead" illustrated in the Fire Department comments in the attached January 5, 2021 Pre-application Memo.

#### 16.120.030 Pedestrian Access and Circulation.

A. <u>Pedestrian Access and Circulation</u>. To ensure safe, direct and convenient pedestrian circulation, all developments, except single-family detached housing, duplexes, or triplexes on individual lots, shall provide a continuous pedestrian and/or multi-use pathway system.

Staff Finding: This criterion does not apply.

• The triplexes are on individual lots. The development nevertheless provides public sidewalks along the Jetty Street and 4<sup>th</sup> Avenue frontages, and sidewalks between each block of three townhomes.

## Chapter 16.124 Landscaping, Street Trees, Fences, and Walls

## 16.124.070 New Landscaping.

- A. Applicability. This section shall apply to all developments within the City of Warrenton.
- B. <u>Landscaping Plan Required</u>. For every new development in the City of Warrenton requiring a City permit, a landscape plan is required.

Staff Finding: This criterion will be met by a condition of approval.

• The applicant stated that, "We intend to use native dune and beach grasses as well as trees and shrubs native to this area that are drought tolerant, thus we would propose no irrigations system. Plants will be hand-watered for the first year to get them established and then maintained by a professional landscape group under the management of the HOA."

• Subdivisions typically are not required to provide landscape plans for individual residential lots, in that landscaping is left to the discretion of the owners. A landscape plan will be required, however, for the required street trees and the common areas.

## Chapter 16.128 Vehicle and Bicycle Parking

## 16.128.030 Vehicle Parking Standards.

At the time a structure is erected or enlarged, or the use of a structure or parcel of land is changed within any zone in the City, off-street parking spaces shall be provided in accordance with requirements in this section, chapter, and Code, unless greater requirements are otherwise established. The minimum number of required off-street vehicle parking spaces (i.e., parking that is located in parking lots and garages and not in the street right-of-way) shall be determined based on the standards in Table 16.128.030.A.

#### A. General Provisions.

1. Groups of four or more off-street parking spaces shall be served by a driveway or aisle so that no backing movements or other maneuvering within a street or right-of-way, other than an alley, will be required. Section 16.120.020 contains driveway opening and width standards.

Staff Finding: This criterion is met.

• The subdivision does not include a parking lot. Table 16.128.030.A requires single-family attached dwellings with three or more bedrooms to provide two parking spaces per unit. Each townhome has four bedrooms and a two-car garage.

(Garage design and other applicable standards are addressed in the Site Design Review. Driveway standards are addressed above under Chapter 16.120 Access and Circulation, Subsection I.)

## Chapter 16.136 <u>Public Facilities Standards</u>

#### 16.136.010 Purpose and Applicability.

- A. <u>Purpose</u>. The purpose of this chapter is to provide planning and design standards for public and private transportation facilities and utilities. Streets are the most common public spaces, touching virtually every parcel of land. Therefore, one of the primary purposes of this chapter is to provide standards for attractive and safe streets that can accommodate vehicle traffic from planned growth, and provide a range of transportation options...
- C. <u>Standard Specifications</u>. The City shall establish standard construction specifications consistent with the design standards of this chapter and application of engineering principles. They are incorporated in this Code by reference.
- D. <u>Conditions of Development Approval</u>. No development may occur unless required public facilities are in place or guaranteed, in conformance with the provisions of this Code. Improvements required as a condition of development approval, when not voluntarily accepted by the applicant, shall be roughly proportional to the impact of development. Findings in the development approval shall indicate how the required improvements are roughly proportional to the impact.

Staff Finding: These criteria are met or will be met by a condition of approval.

• Although staff anticipates that the applicant will voluntarily accept the improvement requirements, the improvements are nonetheless roughly proportional to the impact of the development, in that

the improvements are confined to the site and the public access areas adjacent to the site and are consistent with the Purpose of the chapter and established standard specifications.

## 16.136.020 Transportation Standards.

- A. <u>Development Standards</u>. No development shall occur unless the lot or parcel abuts a public or private street, other than an alley, for at least 25 feet and is in conformance with the provisions of Chapter 16.120, Access and Circulation, and the following standards are met:
  - 1. Streets within or adjacent to a development shall be improved in accordance with the Comprehensive Plan, Transportation System Plan, and the provisions of this chapter;
  - 2. Development of new streets (public or private), and additional street width or improvements planned as a portion of an existing street, shall be improved in accordance with this section, and public streets shall be dedicated to the applicable City, County or State jurisdiction;
  - 3. New streets and drives connected to a City collector or arterial street shall be paved;

Staff Finding: These criteria are met or will be met by conditions of approval.

- The lots abut a public street for at least 25 feet, the street improvements shall be improved and dedicated by conditions of approval, and the streets will be paved as indicated in the Jetty Street Improvement Plan.
- D. <u>Creation of Access Easements</u>. The City may approve an access easement established by deed when the easement is necessary to provide for access and circulation in conformance with Chapter 16.120, Access and Circulation. Access easements shall be created and maintained in accordance with the Uniform Fire Code, as amended.

Staff Finding: This criterion will be met by a condition of approval.

- The existing access easement recorded as Instrument 200503428 was necessary for shared access and conforms with Chapter 16.120 as described above under Section 16.120.020.F.
  - E. <u>Street Location, Width and Grade</u>. Except as noted below, the location, width and grade of all streets shall conform to the Transportation System Plan and Comprehensive Plan, as applicable; and an approved street plan or subdivision plat. Street location, width and grade shall be determined in relation to existing and planned streets, topographic conditions, public convenience and safety, and in appropriate relation to the proposed use of the land to be served by such streets:
    - 1. Street grades shall be approved by the City-appointed engineer in accordance with the design standards in subsection N of this section;

Staff Finding: These criteria are met or will be met by a condition of approval.

- The locations of Jetty Street and 4<sup>th</sup> Avenue, as platted public streets, conform to the TSP, the Comprehensive Plan, and the approved First Addition Kindred Park Subdivision plan.
- The street widths and grades as indicated in the Jetty Street Improvement Plan will be subject to review and conditions of approval by a city-appointed engineer.
- F. <u>Minimum Rights-of-Way and Street Sections</u>. Street rights-of-way and improvements shall conform to the design standards in Table 16.136.010.

Staff Finding: These criteria will be met by conditions of approval.

• The street rights-of-way and improvements as indicated in the Jetty Street Improvement Plan will be subject to review and conditions of approval recommended by the city-appointed engineer.

### H. Future Street Plan and Extension of Streets.

1. A future street plan shall be filed by the applicant in conjunction with an application for a subdivision in order to facilitate orderly development of the street system. The plan shall show the pattern of existing and proposed future streets from the boundaries of the proposed land division and shall include other parcels within 500 feet surrounding and adjacent to the proposed land division. The street plan is not binding; rather it is intended to show potential future street extensions with future development.

Staff Finding: This criterion will be met by a condition of approval.

- 2. Streets shall be extended to the boundary lines of the parcel or tract to be developed, when the Community Development Director or Planning Commission determines that the extension is necessary to give street access to, or permit a satisfactory future division of, adjoining land. The point where the streets temporarily end shall conform to subparagraphs a through c of this paragraph:
- a. These extended streets or street stubs to adjoining properties are not considered to be cul de-sacs since they are intended to continue as through streets when the adjoining property is developed.
- b. A barricade (e.g., fence, bollards, boulders or similar vehicle barrier) shall be constructed at the end of the street by the subdivider and shall not be removed until authorized by the City or other applicable agency with jurisdiction over the street. The cost of the barricade shall be included in the street construction cost.
- c. Temporary turnarounds (e.g., hammerhead or bulb-shaped configuration) may be constructed for stub streets over 150 feet in length for a time period of up to two years. The developer shall guarantee conversion of the temporary hammerhead into a cul-de-sac that meets the standards of this Code by posting a performance bond that guarantees the required improvement within the time specified.

Staff Finding: These criteria will be met by conditions of approval.

- The Jetty Street Improvement Plan indicates that 4<sup>th</sup> Avenue will be extended beyond the development's eastern boundary line, but it does not indicate a barricade, which will be required as a condition of approval. The hammerhead shown on the Plan is provided for fire apparatus access but may not be able to be replaced by a cul-de-sac, which the code requires to be 96 feet in diameter. The 4<sup>th</sup> Avenue ROW is only 60 feet wide.
- J. <u>Sidewalks, Planter Strips, Bicycle Lanes</u>. Sidewalks, planter strips, and bicycle lanes shall be installed in conformance with the standards in Table 16.136.010, applicable provisions of the Transportation System Plan, the Comprehensive Plan, and adopted street plans. Sidewalks are required on both sides of all streets (including streets inside easements), except for alley ways and walking paths. Maintenance of sidewalks, curbs, and planter strips is the continuing obligation of the adjacent property owner.

Staff Finding: These criteria are met or will be met by conditions of approval.

- Sidewalks proposed in the Jetty Street Improvement Plan comply with the standards, but planter strips and bicycle lanes are not included on the plans. Unless alternate planting areas are proposed and approved, planter strips will be required as a condition of approval. Table 16.136010 does not require bicycle lanes along Local Roads, which is the classification of Jetty Street and 4<sup>th</sup> Avenue in the 2019 Transportation System Plan.
- O. <u>Curbs, Curb Cuts, Ramps, and Driveway Approaches</u>. Concrete curbs, curb cuts, wheelchair, bicycle ramps and driveway approaches shall be constructed in accordance with standards specified in Chapter 16.120, Access and Circulation, and City construction standards.

Staff Finding: These criteria will be met by conditions of approval.

- The curbs, curb cuts, and driveway approaches proposed in the Jetty Street Improvement Plan will be subject to the approval of the City Engineer or City-appointed engineer.
- X. <u>Street Light Standards</u>. Street lights shall be installed in accordance with City standards.

Staff Finding: This criterion will be met by a condition of approval.

- Street lights are not indicated on the Jetty Street Improvement Plan.
- Y. <u>Street Cross-Sections</u>. The final lift of asphalt or concrete pavement shall be placed on all new constructed public roadways prior to final City acceptance of the roadway and within one year of the conditional acceptance of the roadway unless otherwise approved by the City-appointed engineer.

Staff Finding: This criterion will be met by a condition of approval.

## Chapter 16.140 Stormwater and Surface Water Management

## 16.140.020 Developments Must Drain Properly.

- A. All developments must provide an adequate drainage system to prevent the undue detention or retention of stormwater or surface water on the development site.
- C. Whenever practicable, the drainage system of a development must coordinate with and connect to the drainage systems or drainage ways on surrounding properties or streets.
- D. All developments must be constructed and maintained so that adjacent properties are not unreasonably burdened with stormwater runoff as a result of the developments.

#### 16.140.030 Surface Water Management.

All developments must be constructed and maintained so that impacts to natural and man-made drainage ways do not unreasonably burdened upstream or downstream properties with surface water flooding as a result of the developments.

Staff Finding: These criteria will be met by a condition of approval.

• The applicant stated that, "Water from the roadways will be collected and transmitted to the existing drainage system for disposal to Hammond Boat Basin. Water runoff from the buildings and private drive will be collected and disposed through subsurface infiltration. Overflow from the infiltration system will be directed into the roadway drainage system.

• The Jetty Street Improvement Plan (Sheets C1, C3, C4, C9, & C10) contain the drainage design, components and associated notes by Morgan Civil Engineering, Inc., which will be subject to approval by the City Engineer or city-appointed engineer.

#### 16.140.040 Erosion and Sediment Control.

- B. Erosion and sediment control plans are required by the City as a component of the site plan for all plats and all projects which require site plan review. Erosion control plans must be designed to the specifications as outlined in this chapter.
- C. Development of the land may not begin (and no building permits may be issued) until the City-appointed engineer approves the erosion control plan.

Staff Finding: These criteria will be met by conditions of approval.

• The application does not contain an erosion and sediment control plan.

## 16.140.050 Stormwater System Design.

- A. Storm sewers constructed within the street will be sized by the developer's engineer and will consider all potential runoff requirements within the site and upstream of the site.
  - 1. The storm sewer will be sized for a 100-year design recurrence criteria for storm drainage facilities.
  - 2. The minimum size of storm sewers is eight inches in diameter.
  - 3. Spacing of catch basins along the street must conform to published engineering recommendations, which consider profile of the street and street width.

Staff Finding: These criteria will be met by a condition of approval.

• The Jetty Street Improvement Plan (Sheets C1, C3, C4, C9, & C10) contain the drainage design, components and associated notes by Morgan Civil Engineering, Inc., which will be subject to approval by the City Engineer or city-appointed engineer.

## Chapter 16.152 Grading, Excavating, and Erosion Control Plans

## 16.152.060 Grading Permit Requirements.

- A. <u>Permits Required</u>. Except as exempted in Section 16.152.040, no person shall do any grading without first obtaining a grading permit from the building official. A separate permit shall be obtained for each site, and may cover both excavations and fills.
- E. <u>Regular Grading Requirements</u>. Each application for a grading permit shall be accompanied by a plan in sufficient clarity to indicate the nature and extent of the work.

Staff Finding: These criteria will be met by conditions of approval.

• The application does not contain plans for grading, excavation and erosion control plans.

## <u>Chapter 16.184 Single-Family Attached, Duplex, and Triplex Design Standards</u> 16.184.030 Design Standards.

A. <u>Building Mass Supplemental Standard</u>. The maximum number and width of consecutively attached townhomes (i.e., with attached walls at property lines) shall not exceed eight units or 200 feet (from end-wall to end-wall) whichever is less.

- B. <u>Access Standards</u>. Townhomes, duplexes and triplexes receiving access directly from a public or private street (as opposed to alley access) shall comply with the following standards, in order to minimize interruption of adjacent sidewalks by driveway entrances, slow traffic, improve appearance of the streets, and minimize paved surfaces for better stormwater management.
  - 1. The maximum allowable driveway width facing the street is 10 to 24 feet per dwelling unit. The maximum combined garage width per unit is 50% of the total building width. For example, a 24-foot wide unit may have one 12-foot wide garage.
  - 2. Two adjacent garages shall share one driveway when individual driveways would be separated by less than 20 feet (i.e., the width of one on-street parking space). When a driveway serves more than one lot, the developer shall record an access and maintenance agreement/easement to benefit each lot, prior to building permit issuance.
- C. <u>Common Areas</u>. Common areas (e.g., landscaping in private tracts, shared driveways, private alleys, and similar uses) shall be maintained by a homeowners association or other legal entity. A homeowners association may also be responsible for exterior building maintenance. A copy of any applicable covenants, restrictions, and conditions shall be recorded and provided to the City prior to building permit approval.

Staff Finding: These criteria are met except for C, which will be met be a condition of approval.

- A. The number of attached townhomes in the structures is three, and the width of each structure is less than 66 feet.
- B. N/A. The townhomes receive access directly from the rear easement.
- C. The applicant has stated that a homeowners association will be responsible for maintenance of the common area landscape.

## Chapter 16.208 Types of Applications and Review Procedures

## 16.208.020 Description of Permit/Decision-Making Procedures.

- C. <u>Type III Procedure (Quasi-Judicial)</u>. Type III decisions are made by:
  - 1. The Planning Commission after the mailing of a public notice and publication of notice of the hearing.

Staff Finding: These criteria are met.

• The mailing and publication of public notices of the hearing are described on Page 1.

## 16.208.050 Type III Procedure (Quasi-Judicial).

A. <u>Pre-application Conference</u>. A pre-application conference is required for all Type III applications. The requirements and procedures for a pre-application conference are described in Section 16.208.070.

Staff Finding: This criterion is met.

- A pre-application conference was held on December 16, 2020. The pre-application conference memo is attached for reference.
- B. Application Requirements.
  - 2. Content. Type III applications shall:
    - e. Include an impact study for all Type III applications. The impact study shall quantify/assess the effect of the development on public facilities and services. The study

shall address, at a minimum, the transportation system, including pedestrian ways and bikeways, the drainage system, the parks system, the water system, the sewer system, and the noise impacts of the development. For each public facility system and type of impact, the study shall propose improvements necessary to meet City standards and to minimize the impact of the development on the public at large, public facilities systems, and affected private property users.

Staff Finding: This criterion will be met by a condition of approval.

• Although the application proposed detailed improvements intended to meet City standards and to minimize the impact of the development as describe above, the improvements were not supported by an impact study. Since this approval is only for the preliminary plat, the study may be provided prior to the approval of the proposed improvements and the final plat.

## Chapter 16.216 Land Divisions and Lot Line Adjustments

## 16.216.020 General Requirements.

- A. <u>Subdivision and Partition Approval Through Two-step Process</u>. Applications for subdivision or partition approval shall be processed through a two-step process: the preliminary plat and the final plat.
  - 1. The preliminary plat shall be approved before the final plat can be submitted for approval consideration.

Staff Finding: This criterion will be met by a condition of approval.

- Application SUB-21-1 is only for approval of the subdivision design elements and the preliminary plat.
- G. Need for Adequate Utilities. Shall comply with Chapters 16.136 and 16.216.

Staff Finding: The associated criteria are addressed in Findings under Chapter 16.136 above and Findings within this section on Chapter 16.216.

H. <u>Need for Adequate Drainage</u>. All subdivision and partition proposals shall comply with Chapter 16.140.

Staff Finding: The associated criteria are addressed in Chapter 16.140 above.

- I. Open space shall provide opportunities for active and/or passive recreation and may include existing stands of trees, resource areas, and storm water facilities as outlined in this section. Active open space shall allow human activities including recreational and social opportunities such as play fields, playgrounds, swimming pools, plazas and other recreational facilities. Open space may also be passive and include human activities limited to walking, running, and cycling, seating areas and wildlife viewing or natural areas such as a wetland.
  - 1. A proposed subdivision preliminary plat with 20 lots or more shall provide baseline active open space of an area equal to at least five percent of the subject site.

Staff Finding: This criterion does not apply.

• The requirement for active open space does not apply to a nine-lot subdivision. The proposed subdivision involves passive open space that will not have the potential for active open space human activities as described above.

8. An association of owners or tenants, created as a non-profit corporation under the laws of the state (ORS 94.572) which shall adopt and impose articles of incorporation and bylaws and adopt and impose a declaration of covenants and restrictions on the common open space that is acceptable to the City Attorney as providing for the continuing care of the space. Any subsequent changes to such CC&Rs regarding the active open space must be approved by the City Attorney. Such an association shall be formed and continued for the purpose of maintaining the common open space and shall provide for City intervention and the imposition of a lien against the entire subdivision development in the event the association fails to perform as required.

Staff Finding: These criteria will be met by conditions of approval.

## 16.216.040 Preliminary Plat Submission Requirements.

- A. <u>General Submission Requirements</u>. For partitions (three lots or fewer), the applicant shall submit an application containing all of the information required under Section 16.208.040. For subdivisions (greater than three lots), the application shall contain all of the information required under Section 16.208.050.
- B. <u>Preliminary Plat Information</u>. In addition to the general information described in subsection A of this section, the preliminary plat application shall consist of drawings and supplementary written material (i.e., on forms and/or in a written narrative) adequate to provide the following information:

## 1. General Information.

- a. Name of subdivision (not required for partitions). This name must not duplicate the name of another subdivision in the county in which it is located (please check with County Surveyor);
- b. Date, north arrow, and scale of drawing;
- c. Location of the development sufficient to define its location in the City, boundaries, and a legal description of the site;
- d. Names, addresses and telephone numbers of the owners, designer, and engineer or surveyor if any, and the date of the survey; and
- e. Identify the drawing as a "preliminary plat."

## 2. <u>Site Analysis</u>. (applicable elements)

- a. <u>Streets</u>. Location, name, present condition (i.e., paved, gravel, unimproved, etc.), and width of all streets, alleys and rights-of-way on and abutting the site;
- b. <u>Easements</u>. Width, location and purpose of all existing easements of record on and abutting the site;
- c. <u>Utilities</u>. Location and identity of all utilities on and abutting the site. If water mains and sewers are not on or abutting the site, indicate the direction and distance to the nearest ones;
- d. Ground elevations shown by contour lines at five-foot vertical intervals for ground slopes exceeding 10% and at two-foot intervals for ground slopes of less than 10%. Such ground elevations shall be related to some established bench mark or other datum

approved by the County Surveyor. This requirement may be waived for partitions when grades, on average, are less than two percent;

- e. The location and elevation of the closest benchmark(s) within or adjacent to the site (i.e., for surveying purposes);
- h. Site features, including existing structures, pavement, drainage ways, canals and ditches:
- j. North arrow, scale, name and address of owner;
- k. Name and address of surveyor or engineer; and
- l. Other information, as deemed appropriate by the Community Development Director. The City may require studies or exhibits prepared by qualified professionals to address specific site features and code requirements.

## 3. Proposed Improvements.

- a. Public and private streets, tracts, driveways, open space and park land; location, names, right-of-way dimensions, approximate radius of street curves; and approximate finished street center line grades. All streets and tracts which are being held for private use and all reservations and restrictions relating to such private tracts shall be identified;
- b. Easements. Location, width and purpose of all easements;
- c. Lots and private tracts (e.g., private open space, common area, or street): approximate dimensions, area calculation (e.g., in square feet), and identification numbers for all lots and tracts;
- d. Proposed uses of the property, including all areas proposed to be dedicated to the public or reserved as open space for the purpose of surface water management, recreation, or other use;
- e. Proposed improvements, as required by Division 3 (Design Standards), and timing of improvements (e.g., in the case of streets, sidewalks, street trees, utilities, etc.);
- f. The proposed source of domestic water;
- g. The proposed method of sewage disposal and method of surface water drainage (shall comply with Chapter 16.140). Water quality treatment areas, if required;
- h. The approximate location and identity of other utilities, including the locations of street lighting fixtures;

Staff Finding: These criteria are met.

• The required information may be found on the Preliminary plat and supplementary written materials.

## CONCLUSION, RECOMMENDATION, AND CONDITIONS OF APPROVAL

The findings above demonstrate that the proposed design of the Jetty View preliminary plat is generally consistent with the CMU zoning district development standards, the design standards of the development code, and the subdivision code. Staff recommends the Planning Commission approve the subdivision/preliminary plat application subject to the following conditions:

## Within 30 days of conditional approval of the preliminary plat:

- 1. Reword the title of the preliminary plat to read, Preliminary Plat.
- 2. Delineate two travel lanes on the preliminary plat, each at 10 feet wide to be established and maintained within the access easement.
- 3. Obtain and provide the City Fire Chief's written approval of the alternative hammerhead proposed at the east end of the 4<sup>th</sup> Avenue ROW.
- 4. Provide a landscape plan of street trees and the common areas as required by and compliant with Sections 16.124.070 and 16.124.080. The plan shall include planter strips as required by Section 16.136.020.J and Table 16.136.010.
- 5. Indicate locations of street lights on the site plan as required by Section 16.136.020.X.

## Prior to issuance of grading or building permits:

- 6. Provide to and receive approval from Public Works of a grading plan as required by Section 16.152.060.E.
- 7. Provide to and receive approval from Public Works of an erosion and sediment control plan as required by Section 16.140.040.
- 8. The project contractor shall secure a permit for work in the public right of way in accordance with Warrenton Municipal Code.
- 9. Provide a Future Street Plan as required by Section 16.136.020.
- 10. Ensure that all required public facilities are in place or are guaranteed as required by Section 136.010.D.
- 11. Obtain the City Attorney's approval of the Homeowners Association's Covenants, Conditions & Restrictions ensuring maintenance of the common areas, and submit a copy of the recorded document to the Community Development Department, as required by Sections 16.184.030.C and 16.216.020.I.8.

## General conditions:

- 12. Prior to approval of construction plans, the developer will waive any and all rights to remonstrate against the formation of a Local Improvement District (LID) for the purpose of making sanitary sewer, storm sewer, water or street improvements that benefit the property and assessing the cost to the benefited properties pursuant to the City's regulations in effect at the time of such improvement.
- 13. The develop shall submit a final Stormwater Report with the final construction documents.
- 14. The developer shall agree to make all necessary offsite stormwater improvements if downstream deficiencies are created by the development of this property.
- 15. Any utility easements shall be dedicated to City of Warrenton.
- 16. Developer shall provide as-built drawings and certification by a registered engineer in accordance with adopted criteria for all improvements, prior to acceptance by the City.
- 17. Developer shall comply with the comments and conditions contained in the Pre-Application Memo of January 1, 2021.
- 18. Developer shall comply with the General Notes and Comments provided by the Public Works Director in the *Jetty View Townhomes Planning Review Comments* dated August 5, 2021, attached to this staff report and incorporated in the Conditions of Approval by reference.

**Suggested motion:** Based on the findings and conclusions of the August 3, 2021 staff report, I move to approve SUB-21-1 Preliminary Plat Application for Jetty View Subdivision subject to the conditions of approval included in the staff report.

## **Attachments**

- Subdivision Application
- Project Narrative
- Jetty View Preliminary Plat
- Jetty Street Improvement Plan
- Site Plan
- Floor Plans (3 pp.)
- Shared Access Easement Inst. No. 200503426
- Will Serve Notices
- Pre-Application Memo
- Mailed Public Hearing Notice
- Published Public Hearing Notice
- Jetty View Townhomes Planning Review Comments dated August 5, 2021

## **Site Design Review Application SDR-21-1**

#### APPLICABLE CRITERIA AND STANDARDS

Chapter 16.44 Commercial-Mixed Use (C-MU) District

Chapter 16.116 Design Standards

Chapter 16.120 Access and Circulation

Chapter 16.124 Landscaping, Street Trees, Fences, and Walls

Chapter 16.128 Vehicle and Bicycle Parking

Chapter 16.136 Public Facilities Standards

Chapter 16.140 Stormwater and Surface Water Management

Chapter 16.144 Signs

Chapter 16.152 Grading, Excavating, and Erosion Control Plans

Chapter 16.184 Single-Family Attached, Duplex, and Triplex Design Standards

Chapter 16.208 Types of Applications and Review Procedures

Chapter 16.212 Site Design Review

The Site Design Review Criteria and Standards are in most instances identical to those of the Subdivision review, which is why past planners have consolidated two or more applications into one review, in spite of WMC provisions requiring separate reviews and decisions. The staff report makes findings below, but as appropriate, the findings refer to the supporting discussions that have already been reviewed in the Subdivision portion.

### **FINDINGS**

## Chapter 16.44 Commercial-Mixed Use (C-MU) District

## 16.44.020 Permitted Uses

## A. Residential.

2. Duplex, townhome, triplex, multifamily and rowhouse with garage (attached or detached) in accordance with Chapter 16.180 and subject to standards of Chapter 16.184.

Staff Finding: This criterion is met.

• See discussion points on Page 2.

#### 16.44.040 Development Standards.

## A. Density Provisions.

- 2. Minimum lot size, residential uses: same as in Section 16.36.040.
- 5. Minimum lot width at the front building line, residential uses: same as in Section 16.36.040.
- 7. Minimum lot depth, residential uses: same as in Section 16.36.040.
- 8. *Maximum building height: commercial, 45 feet; residential, 40 feet.*
- 10. Lot coverage—Residential uses: Not more than 55% of the lot area shall be covered by buildings...

## Staff Finding: These criteria are met.

- See discussion points on Page 3.
- The discussion points in the subdivision review did not concern maximum building height. The height of the proposed townhome structures is approximately 35 feet to the roof peak.

#### 16.44.050 Other Applicable Standards.

- E. All uses will comply with access and parking standards in Chapter 16.128 except as may be permitted by conditional use or variance.
- H. All other applicable Development Code requirements will also be satisfied; and all new sewer and water connections for a proposed development shall comply with all City regulations.

Staff Finding: These criteria are discussed under other chapters.

• See discussion points on Page 3.

## Chapter 16.116 Design Standards

16.116.020 Applicability.

Staff Finding: Detailed findings follow in the chapters as they apply to a site design review.

## Chapter 16.120 Access and Circulation

## 16.120.020 Vehicular Access and Circulation.

- B. <u>Applicability</u>. This chapter shall apply to all transportation facilities and improvements (e.g., public and private streets, driveways, multi-use paths, etc.) within the City and to all properties that abut these facilities. Additional standards can be found in Chapter 16.136, Public Facilities Standards.
- F. <u>Access Options</u>. When vehicle access is required for development (i.e., for off-street parking, delivery, service, drive-through facilities, etc.), access shall be provided by one of the following methods (a minimum of 10 feet per lane is required). These methods are "options" to the developer/subdivider, unless one method is specifically required under Division 2, or through conditions required by the hearings body.
  - 2. <u>Option 2</u>. Access is from a private street or driveway connected to an adjoining property that has direct access to a public street (i.e., "shared driveway"). A public access easement covering the driveway shall be recorded in this case to assure access to the closest public street for all users of the private street/drive.

Staff Finding: This criterion is met.

- See discussion point on Page 4.
- I. <u>Shared Driveways</u>. The number of driveway and private street intersections with public streets shall be minimized by the use of shared driveways with adjoining lots where feasible. The City shall require shared driveways as a condition of land division, development review, or site design review, as applicable, for traffic safety and access management purposes in accordance with the following standards:
  - 1. Shared driveways and frontage streets may be required to consolidate access onto a collector or arterial street. When shared driveways or frontage streets are required, they shall be stubbed to adjacent developable parcels to indicate future extension. "Stub" means that a driveway or street temporarily ends at the property line, but may be extended in the future as the adjacent parcel develops. "Developable" means that a parcel is either vacant or it is likely to receive additional development (i.e., due to infill or redevelopment potential).
  - 2. Access easements (i.e., for the benefit of affected properties) shall be recorded for all shared driveways, including pathways, at the time of final plat approval (Chapter 16.216) or as a condition of development review or site development approval (Chapter 16.212).

Staff Finding: These criteria are met.

- See discussion point on Page 4.
- K. <u>Driveway Openings and Widths</u>. Driveway openings (or curb cuts) shall be the minimum width necessary to provide the required number of vehicle travel lanes (10 feet for each travel lane). The following standards (i.e., as measured where the front property line meets the sidewalk or right-ofway) are required to provide adequate site access, minimize surface water runoff, and avoid conflicts between vehicles and pedestrians:
  - 3. Multiple-family uses with eight or more dwelling units shall have a minimum driveway width of 24 feet, and a maximum width of 30 feet. These dimensions may be increased if the Community Development Director, City-appointed engineer, or Planning Commission determines that more than two lanes are required based on the number of trips generated or the need for turning lanes.
  - 4. Access widths for all other uses shall be based on 10 feet of width for every travel lane, except that driveways providing direct access to parking spaces shall conform to the parking area standards in Chapter 16.128.
  - 5. <u>Setback Required</u>. A minimum five-foot setback from the edge of driveway to any property line is required. The setback area shall be kept free of impervious surfaces at all times and shall be vegetated to minimize surface water runoff to adjoining properties.

Staff Finding: These criteria are partially met and will be completely met by a condition of approval.

- See discussion point on Page 5.
- L. <u>Fire Access and Circulation</u>. The City of Warrenton adopts the Uniform Fire Code, as amended, including administrative sections and all appendices and all the State of Oregon revisions. All development in the City of Warrenton is required to meet these minimum adopted standards.
  - 1. Required Access. A fire equipment access drive that meets City construction standards shall be provided for any portion of an exterior wall of the first story of a building that is located more than 150 feet from an improved public street or approved fire equipment access drive. Plans for fire apparatus access roads shall be submitted to the Warrenton Fire Department and Warrenton City-appointed engineer for review and approval prior to issuance of building permits, grading permits, or start of construction. When fire apparatus access road(s) are required, the road(s) shall be installed and made serviceable prior to and during time of construction. Fire department access roads shall be provided and maintained in accordance with the fire department access requirements of the Uniform Fire Code, as amended.
  - 2. <u>Dimensions</u>. Fire apparatus roads shall have an unobstructed width of not less than 20 feet and unobstructed vertical clearance of not less than 13 feet 6 inches. Fire apparatus roads shall be designed and maintained to support the imposed loads of fire apparatus and shall be provided with a surface so as to provide all-weather driving capabilities.
  - 3. <u>Turnaround Required</u>. Dead-end fire apparatus roads in excess of 150 feet shall be provided with approved provisions for the turning around of fire apparatus. See Table 16.136.010 for minimum standards.

Staff Finding: This criterion will be met with a condition of approval requiring the Fire Chief's approval of the alternative hammerhead.

• See discussion point on Page 6

#### 16.120.030 Pedestrian Access and Circulation.

A. <u>Pedestrian Access and Circulation</u>. To ensure safe, direct and convenient pedestrian circulation, all developments, except single-family detached housing, duplexes, or triplexes on individual lots, shall provide a continuous pedestrian and/or multi-use pathway system.

Staff Finding: This criterion does not apply.

• See discussion point on Page 6.

## Chapter 16.124 Landscaping, Street Trees, Fences, and Walls

## 16.124.070 New Landscaping.

- A. <u>Applicability</u>. This section shall apply to all developments within the City of Warrenton.
- B. <u>Landscaping Plan Required</u>. For every new development in the City of Warrenton requiring a City permit, a landscape plan is required.

Staff Finding: This criterion will be met by a condition of approval.

• See discussion points on Page 6.

## Chapter 16.128 Vehicle and Bicycle Parking

## 16.128.030 Vehicle Parking Standards.

At the time a structure is erected or enlarged, or the use of a structure or parcel of land is changed within any zone in the City, off-street parking spaces shall be provided in accordance with requirements in this section, chapter, and Code, unless greater requirements are otherwise established. The minimum number of required off-street vehicle parking spaces (i.e., parking that is located in parking lots and garages and not in the street right-of-way) shall be determined based on the standards in Table 16.128.030.A.

#### A. General Provisions.

1. Groups of four or more off-street parking spaces shall be served by a driveway or aisle so that no backing movements or other maneuvering within a street or right-of-way, other than an alley, will be required. Section 16.120.020 contains driveway opening and width standards.

Staff Finding: This criterion is met.

• See discussion point on Page 7.

## 16.128.040 Bicycle Parking Requirements.

- A. All uses shall provide bicycle parking in conformance with the following standards which are evaluated during development review or site design review.
- B. Number of Bicycle Parking Spaces. The minimum number of bicycle parking spaces required for uses is provided in Table 16.128.040.A.

Staff Finding: This criterion does not apply, subject to the interpretation of the Planning Commission.

• Subsection D describes, *Exemptions. This section does not apply to single-family and duplex housing*. Since the exemption does not distinguish between detached and attached single-family housing, staff's interpretation is that the exemptions applies to townhomes as well.

## Chapter 16.136 Public Facilities Standards

## 16.136.010 Purpose and Applicability.

- A. <u>Purpose</u>. The purpose of this chapter is to provide planning and design standards for public and private transportation facilities and utilities. Streets are the most common public spaces, touching virtually every parcel of land. Therefore, one of the primary purposes of this chapter is to provide standards for attractive and safe streets that can accommodate vehicle traffic from planned growth, and provide a range of transportation options...
- C. <u>Standard Specifications</u>. The City shall establish standard construction specifications consistent with the design standards of this chapter and application of engineering principles. They are incorporated in this Code by reference.
- D. <u>Conditions of Development Approval</u>. No development may occur unless required public facilities are in place or guaranteed, in conformance with the provisions of this Code. Improvements required as a condition of development approval, when not voluntarily accepted by the applicant, shall be roughly proportional to the impact of development. Findings in the development approval shall indicate how the required improvements are roughly proportional to the impact.

Staff Finding: These criteria are met or will be met by a condition of approval.

• See discussion point on Page 7.

## 16.136.020 Transportation Standards.

- A. <u>Development Standards</u>. No development shall occur unless the lot or parcel abuts a public or private street, other than an alley, for at least 25 feet and is in conformance with the provisions of Chapter 16.120, Access and Circulation, and the following standards are met:
  - 1. Streets within or adjacent to a development shall be improved in accordance with the Comprehensive Plan, Transportation System Plan, and the provisions of this chapter;
  - 2. Development of new streets (public or private), and additional street width or improvements planned as a portion of an existing street, shall be improved in accordance with this section, and public streets shall be dedicated to the applicable City, County or State jurisdiction;
  - 3. New streets and drives connected to a City collector or arterial street shall be paved;

Staff Finding: These criteria are met or will be met by conditions of approval.

- See discussion point on Page 8.
- D. <u>Creation of Access Easements</u>. The City may approve an access easement established by deed when the easement is necessary to provide for access and circulation in conformance with Chapter 16.120, Access and Circulation. Access easements shall be created and maintained in accordance with the Uniform Fire Code, as amended.

Staff Finding: This criterion will be met by a condition of approval.

- See discussion point on Page 8.
- E. <u>Street Location, Width and Grade</u>. Except as noted below, the location, width and grade of all streets shall conform to the Transportation System Plan and Comprehensive Plan, as applicable; and an approved street plan or subdivision plat. Street location, width and grade shall be

determined in relation to existing and planned streets, topographic conditions, public convenience and safety, and in appropriate relation to the proposed use of the land to be served by such streets:

1. Street grades shall be approved by the City-appointed engineer in accordance with the design standards in subsection N of this section;

Staff Finding: These criteria are met or will be met by a condition of approval.

- See discussion points on Page 8.
- F. <u>Minimum Rights-of-Way and Street Sections</u>. Street rights-of-way and improvements shall conform to the design standards in Table 16.136.010.

Staff Finding: These criteria will be met by conditions of approval.

• See discussion point on Page 8.

## H. Future Street Plan and Extension of Streets.

1. A future street plan shall be filed by the applicant in conjunction with an application for a subdivision in order to facilitate orderly development of the street system. The plan shall show the pattern of existing and proposed future streets from the boundaries of the proposed land division and shall include other parcels within 500 feet surrounding and adjacent to the proposed land division. The street plan is not binding; rather it is intended to show potential future street extensions with future development.

Staff Finding: This criterion will be met by a condition of approval.

- 2. Streets shall be extended to the boundary lines of the parcel or tract to be developed, when the Community Development Director or Planning Commission determines that the extension is necessary to give street access to, or permit a satisfactory future division of, adjoining land. The point where the streets temporarily end shall conform to subparagraphs a through c of this paragraph:
- a. These extended streets or street stubs to adjoining properties are not considered to be cul de-sacs since they are intended to continue as through streets when the adjoining property is developed.
- b. A barricade (e.g., fence, bollards, boulders or similar vehicle barrier) shall be constructed at the end of the street by the subdivider and shall not be removed until authorized by the City or other applicable agency with jurisdiction over the street. The cost of the barricade shall be included in the street construction cost.
- c. Temporary turnarounds (e.g., hammerhead or bulb-shaped configuration) may be constructed for stub streets over 150 feet in length for a time period of up to two years. The developer shall guarantee conversion of the temporary hammerhead into a cul-de-sac that meets the standards of this Code by posting a performance bond that guarantees the required improvement within the time specified.

Staff Finding: These criteria will be met by conditions of approval.

• See discussion point on Page 9.

J. <u>Sidewalks, Planter Strips, Bicycle Lanes</u>. Sidewalks, planter strips, and bicycle lanes shall be installed in conformance with the standards in Table 16.136.010, applicable provisions of the Transportation System Plan, the Comprehensive Plan, and adopted street plans. Sidewalks are required on both sides of all streets (including streets inside easements), except for alley ways and walking paths. Maintenance of sidewalks, curbs, and planter strips is the continuing obligation of the adjacent property owner.

Staff Finding: These criteria are met or will be met by conditions of approval.

- See discussion point on Page 9.
- O. <u>Curbs, Curb Cuts, Ramps, and Driveway Approaches</u>. Concrete curbs, curb cuts, wheelchair, bicycle ramps and driveway approaches shall be constructed in accordance with standards specified in Chapter 16.120, Access and Circulation, and City construction standards.

Staff Finding: These criteria will be met by conditions of approval.

- See discussion point on Page 9.
- X. <u>Street Light Standards</u>. Street lights shall be installed in accordance with City standards.

Staff Finding: This criterion will be met by a condition of approval.

Y. <u>Street Cross-Sections</u>. The final lift of asphalt or concrete pavement shall be placed on all new constructed public roadways prior to final City acceptance of the roadway and within one year of the conditional acceptance of the roadway unless otherwise approved by the City-appointed engineer.

Staff Finding: This criterion will be met by a condition of approval.

## Chapter 16.140 Stormwater and Surface Water Management

## 16.140.020 Developments Must Drain Properly.

- A. All developments must provide an adequate drainage system to prevent the undue detention or retention of stormwater or surface water on the development site.
- C. Whenever practicable, the drainage system of a development must coordinate with and connect to the drainage systems or drainage ways on surrounding properties or streets.
- D. All developments must be constructed and maintained so that adjacent properties are not unreasonably burdened with stormwater runoff as a result of the developments.

## 16.140.030 Surface Water Management.

All developments must be constructed and maintained so that impacts to natural and man-made drainage ways do not unreasonably burdened upstream or downstream properties with surface water flooding as a result of the developments.

Staff Finding: These criteria will be met by a condition of approval.

• See discussion points on Page 10.

#### 16.140.040 Erosion and Sediment Control.

B. Erosion and sediment control plans are required by the City as a component of the site plan for all plats and all projects which require site plan review. Erosion control plans must be designed to the specifications as outlined in this chapter.

C. Development of the land may not begin (and no building permits may be issued) until the City-appointed engineer approves the erosion control plan.

Staff Finding: These criteria will be met by conditions of approval.

• The application does not contain an erosion and sediment control plan.

## 16.140.050 Stormwater System Design.

- A. Storm sewers constructed within the street will be sized by the developer's engineer and will consider all potential runoff requirements within the site and upstream of the site.
  - 1. The storm sewer will be sized for a 100-year design recurrence criteria for storm drainage facilities.
  - 2. The minimum size of storm sewers is eight inches in diameter.
  - 3. Spacing of catch basins along the street must conform to published engineering recommendations, which consider profile of the street and street width.

Staff Finding: These criteria will be met by a condition of approval.

• See discussion point on Page 11.

## Chapter 16.152 Grading, Excavating, and Erosion Control Plans

## 16.152.060 Grading Permit Requirements.

- A. <u>Permits Required</u>. Except as exempted in Section 16.152.040, no person shall do any grading without first obtaining a grading permit from the building official. A separate permit shall be obtained for each site, and may cover both excavations and fills.
- E. <u>Regular Grading Requirements</u>. Each application for a grading permit shall be accompanied by a plan in sufficient clarity to indicate the nature and extent of the work.

Staff Finding: These criteria will be met by conditions of approval.

• The application does not contain plans for grading, excavation and erosion control plans.

## Chapter 16.184 Single-Family Attached, Duplex, and Triplex Design Standards 16.184.030 Design Standards.

- A. <u>Building Mass Supplemental Standard</u>. The maximum number and width of consecutively attached townhomes (i.e., with attached walls at property lines) shall not exceed eight units or 200 feet (from end-wall to end-wall) whichever is less.
- B. <u>Access Standards</u>. Townhomes, duplexes and triplexes receiving access directly from a public or private street (as opposed to alley access) shall comply with the following standards, in order to minimize interruption of adjacent sidewalks by driveway entrances, slow traffic, improve appearance of the streets, and minimize paved surfaces for better stormwater management.
  - 1. The maximum allowable driveway width facing the street is 10 to 24 feet per dwelling unit. The maximum combined garage width per unit is 50% of the total building width. For example, a 24-foot wide unit may have one 12-foot wide garage.
  - 2. Two adjacent garages shall share one driveway when individual driveways would be separated by less than 20 feet (i.e., the width of one on-street parking space). When a driveway serves more than one lot, the developer shall record an access and maintenance agreement/easement to benefit each lot, prior to building permit issuance.

C. <u>Common Areas</u>. Common areas (e.g., landscaping in private tracts, shared driveways, private alleys, and similar uses) shall be maintained by a homeowners association or other legal entity. A homeowners association may also be responsible for exterior building maintenance. A copy of any applicable covenants, restrictions, and conditions shall be recorded and provided to the City prior to building permit approval.

Staff Finding: These criteria are met except for C, which will be met be a condition of approval.

• See discussion points on Page 11.

## Chapter 16.208 Types of Applications and Review Procedures

## 16.208.020 Description of Permit/Decision-Making Procedures.

- C. <u>Type III Procedure (Quasi-Judicial)</u>. Type III decisions are made by:
  - 1. The Planning Commission after the mailing of a public notice and publication of notice of the hearing.

Staff Finding: These criteria are met.

• The mailing and publication of public notices of the hearing are described on Page 1.

## 16.208.050 Type III Procedure (Quasi-Judicial).

A. <u>Pre-application Conference</u>. A pre-application conference is required for all Type III applications. The requirements and procedures for a pre-application conference are described in Section 16.208.070.

Staff Finding: This criterion is met.

• A pre-application conference was held on December 16, 2020. The pre-application conference memo is attached for reference.

## B. Application Requirements.

- 2. Content. Type III applications shall:
  - e. Include an impact study for all Type III applications. The impact study shall quantify/assess the effect of the development on public facilities and services. The study shall address, at a minimum, the transportation system, including pedestrian ways and bikeways, the drainage system, the parks system, the water system, the sewer system, and the noise impacts of the development. For each public facility system and type of impact, the study shall propose improvements necessary to meet City standards and to minimize the impact of the development on the public at large, public facilities systems, and affected private property users.

Staff Finding: This criterion will be met by a condition of approval.

• See discussion point on Page 12.

## Chapter 16.212 Site Design Review

## 16.212.040 Site Design Review.

- A. Application Review Procedure.
  - 1. <u>Site Design Review—Determination of Type II and Type III Applications</u>. Applications for site design review shall be subject to Type II or Type III review, based on the following criteria:

a. Residential developments with between five and nine dwelling units shall be reviewed as a Type II application, except when development review is allowed under Section 16.212.020. Residential developments with greater than nine units shall be reviewed as a Type III application.

Staff Finding: This criterion is met.

- Although a nine-unit residential development requires a Type II administrative review, (WMC) Section 16.208.070.D.2 requires the review and decision of the two applications to be consolidated as discussed on Page 1.
- B. <u>Application Submission Requirements</u>. All of the following information (subsections (B)(1) through (7) of this section) is required for site design review application submittal:
  - 1. <u>Proposed Site Plan</u>. The site plan shall contain the following information:
    - a. The proposed development site, including boundaries, dimensions, and gross area.
    - b. Natural land features identified which are proposed to be removed or modified by the development, including modifications to existing drainage patterns.
    - c. The location and dimensions of all proposed public and private streets, drives, rights-of-way, and easements.
    - d. The location and dimensions of all existing and proposed structures, utilities, pavement and other improvements on the site. Setback dimensions for all existing and proposed buildings shall be provided on the site plan.
    - e. The location and dimensions of entrances and exits to the site for vehicular, pedestrian, and bicycle access.
    - f. The location and dimensions of all parking and vehicle circulation areas (show striping for parking stalls and wheel stops, as applicable), and proposed paving materials.
    - g. Pedestrian and bicycle circulation areas, including sidewalks, internal pathways, pathway connections to adjacent properties, and any bicycle lanes or trails.
    - h. Loading and service areas for waste disposal, loading and delivery.
    - i. Outdoor recreation spaces, common areas, plazas, outdoor seating, street furniture, and similar improvements.
    - *j.* Location, type, and height of outdoor lighting.
    - k. Location of mail boxes, if known.
    - l. Locations, sizes, and types of signs (shall comply with Chapter 16.144).
    - m. The Community Development Director may require studies or exhibits prepared by qualified professionals to address specific site features (e.g., traffic, noise, environmental features, site drainage, natural hazards, etc.).
    - n. The applicant's entire tax lot and the surrounding property to a distance sufficient to determine the location of the development in the City, and the relationship between the proposed development site and adjacent property and development. The property boundaries, dimensions and gross area shall be identified.
    - o. Identification of slopes greater than 10%.

- p. The location, condition (paved, gravel unimproved, etc.) and width of all public and private streets, drives, sidewalks, pathways, rights-of-way, and easements on the site and adjoining the site.
- *q.* Any areas identified as located in a designated floodplain and/or floodway.
- r. Depict any wetland and riparian areas, streams and/or wildlife habitat areas.
- s. Site features such as pavement, areas having unique views, and drainage ways, canals and ditches.
- t. Any designated historic and cultural resources areas on the site and/or adjacent parcels or lots.
- u. The location, size and type of trees and other vegetation on the property.
- v. North arrow, scale, names and addresses of all property owners.
- w. Name and address of applicant, project designer, engineer, architect, surveyor, and/or planner, if applicable.

Staff Finding: These criteria are met or will be met with conditions of approval.

- Not all items apply to the development, but the application lacks two required items:
  - o j. Location, type, and height of outdoor lighting (applicant did not propose lighting).
  - o 1. Locations, sizes, and types of signs (applicant did not propose signs).
- Studies and exhibits related to the project as noted under item m are included in the submittals for the subdivision review.
  - 2. <u>Architectural Drawings</u>. Architectural drawings shall be submitted showing the following information from subparagraphs a through c of this paragraph 2, and shall comply with Division 3:
    - a. Building elevations with building height and width dimensions.
    - b. Building materials, color and type.
    - c. The name of the architect or designer.

Staff Finding: These criteria are met.

- The information under items a-c is contained in the submittals for the subdivision.
  - 3. <u>Preliminary Grading Plan</u>. A preliminary grading plan prepared by a registered engineer shall be required for developments which would result in the grading (cut or fill) of 1,000 cubic yards or greater. The preliminary grading plan shall show the location and extent to which grading will take place, indicating general changes to contour lines, slope ratios, slope stabilization proposals, and location and height of retaining walls, if proposed. Surface water detention and treatment plans may also be required, in accordance with Chapter 16.140.

Staff Finding: This criterion will be met by a condition of approval.

- A grading plan is pending review and approval of the civil engineering submittal in the subdivision review.
- 4. <u>Landscape Plan</u>. A landscape plan is required and shall comply with Chapter 16.124. Staff Finding: This criterion will be met by a condition of approval.

- The applicant stated that a landscape plan should not be required for single-family homes on individual lots. Staff nonetheless recommended a condition of approval in the subdivision review for a landscape plan that depicts and describes the common area landscaping and the required street trees.
  - 6. Copies of all existing and proposed restrictions or covenants.

Staff Finding: This criterion will be met with a condition of approval.

- The applicant does not have any existing or proposed CC&Rs, but will provide them after they are prepared, submitted to the City Attorney for review, and recorded.
  - 7. Letter or narrative report documenting compliance with the applicable approval criteria contained in subsection C of this section.

Staff Finding: This criterion is met.

- Applicant's narrative is attached.
- C. <u>Review Criteria</u>. The Community Development Director shall make written findings with respect to all of the following criteria...
  - 1. The application is complete, as determined in accordance with Chapter 16.208 and subsection B of this section.

Staff Finding: This criterion will be met with conditions of approval.

- The application was deemed complete in terms of what applicant could realistically provide in the preliminary stage of the development.
  - o Chapter 16.208 requires an impact study, which depends in part on the results of the review of the project's engineering submittal.
  - Subsection B requires plans for lighting, signs, grading, landscaping, and a copy of CC&Rs after they are drafted and approved. See discussion points under Chapter 16.208 and subsection B.
  - 2. The application complies with all of the applicable provisions of the underlying land use district (Division 2), including building and yard setbacks, lot area and dimensions, density and floor area, lot coverage, building height, building orientation, architecture, and other special standards as may be required for certain land uses.

Staff Finding: These criteria are met.

- The applicable provisions of the CMU District are covered in detail on pages 2-12 of the subdivision review portion and Pages 17-24 of the site design review portion.
- Building orientation and architectural standards are contained in Section 16.116.030, which does not apply to this project: 16.116.030 Architectural and Site Design Standards.

  The City's development design standards are for the commercial district corridors along US Highway 101, Alternate Highway 101, SW & SE Dolphin, SE Marlin Avenue, E Harbor Drive, S Main Avenue, SE Ensign Lane, Pacific Drive, and SE Neptune. The standards in this section apply only to property in the commercial corridors listed above; lands outside of these commercial corridors are not subject to these standards.

3. The applicant shall be required to upgrade any existing development that does not comply with the applicable land use district standards, in conformance with Chapter 16.276, Nonconforming Uses and Development.

Staff Finding: This criterion does not apply.

- The site is vacant and does not contain any nonconforming uses or structures.
  - 4. The application complies with the applicable design standards contained in Division 3.

Staff Finding: This criterion is met.

• The applicable design standards are covered in detail on pages 2-12 of the subdivision review portion and Pages 17-24 of the site design review portion.

## CONCLUSION, RECOMMENDATION, AND CONDITIONS OF APPROVAL

The findings above demonstrate that the proposed design of the Jetty View development is generally consistent with the CMU zoning district development standards and the design standards of the development code. Staff recommends the Planning Commission approve the site design review application subject to the following conditions.

Within 30 days of conditional approval of the site design review:

- 1. Provide details on the site plan or on a separate plan the locations, type, and height of outdoor lighting.
- 2. If signs subject to the sign code are planned, provide details on the site plan or on a separate plan the locations, sizes and types of signs.

#### General condition:

3. Compliance with the Conditions of Approval adopted for Subdivision SUB-21-1, herein incorporated by reference.

**Suggested motion:** Based on the findings and conclusions of the August 3, 2021 staff report, I move to approve SDR-21-1 Site Design Review Application for Jetty View Subdivision subject to the conditions of approval included in the staff report.

#### ATTACHMENTS

- Site Design Review Application
- Renderings (2)
- Elevations (2)

(See SUB-21-1 relevant Attachments)

## CITY OF WARRENTON PLANNING AND BUILDING DEPARTMENT

## SUBDIVISION APPLICATION

Printed Name: \_\_\_Jetty Street, LLC

(To be accompanied by a Tentative Map, and copy of property deed, Letter of Authorization, if applicable.)

OFFICE USE ONLY						
FILE # FEE						
ZONING DISTRICT						
RECEIPT #						
DATE RECEIVED						

Legal Des	cription of the Subject I	Property:		
	Township8N	Range	Section SE 1/4 and SW 1/4 of Section 5	Tax Lot
Street addı	ress of the property:	444 Jetty Street		
SIGNATU		NFORMATION C	OR AUTHORIZED AGENT ONTINED IN THE FOREGO ORRECT.	

## **APPLICANT:**

Signature:	Date:
Address: 9879 Buena Vista Road	Phone: 503-209-6034
City/State/Zip:Independence, OR 97351	Fax:
PROPERTY OWNER (if different from Applicant)	
Printed Name: Same	
Signature:	Date:
Address:	Phone:
City/State/Zip:	Fax:
Is this a Planned Unit Development (PUD)? No	YesX
IS THIS A "PHASED DEVELOPMENT"? Yes	NoX

\*\*\*\*\*\* Overall development plan, including phase or unit sequence. a. Development plans are for the design and construction of a 9 unit subdivision consisting of 3 standalone town home structures. containing 3 SFR dwelling units each. Initially, site infrastructure, including half street improvements, utility connections, grading and drainage will be completed, followed immediately by construction of the first 3 unit town home. b. Projected Timetable for sequence of development Based on suggested time line from City, we plan to have preliminary plat, subdivision and land use approvals by the third quarter, 2021, with infrastructure improvements completed in 4th quarter 2021 and the first 3 unit town home completed in 2nd or 3rd quarter 2022. Development plans for any common elements or facilities. c. Landscaping will be commonly owned through its own separate tax parcel and will be governed and maintained as outlined in the to be established Home Owners Association (HOA). d. If the proposed subdivision has an unknown impact upon adjacent lands or land within the general vicinity, the Planning Commission may require a potential street development pattern for adjoining lands to be submitted together with the tentative plan as part of the phased development plan for the subject subdivision. We do not believe this to be applicable. Show compliance with the Comprehensive Plan and applicable sections of the Development Code. e. Site is zone for Commercial Mixed Use (CMU) for which single family attached townhome development is an outright permitted use. The project is also bound by the south, west and east to similar single family detached units. City of Warrenton's 2011 site the need for emphasis of increased housing demand and sites specifically attached single family dwellings as a means in which to accomplish this. In fact, it notes that CMU zone is only one of four potential zones that will allow for attached family dwellings. f. Schedule of improvements and completion. Assuming land use and site development approvals are given by the end of August, 2021, Construction on the subdivision improvements will begin in September of 2021 and should be completed by November of 2021. Final Platting should be completed in December 2021 with construction of the first 3 unit town home in January of 2022 and completion in July of 2022.

improvements will begin in September of 2021 and should be completed by November of 2021. Final Platting should be completed in December 2021 with construction of the first 3 unit town home in January of 2022 and completion in July of 2022.

Overall transportation and traffic pattern.

Primary vehicular access will be through rear loaded private easement located off of Jetty Street. Half street improvements on Jetty Street and 4th Ave will be completed, although 4th Ave will not be connected to Iredale and will remain temporarily dead ended.

g.

## PRELIMINARY SUBDIVISION PLAT REQUIREMENTS

\*\*\*\*\*\*\*

A "preliminary subdivision plat" shall be submitted with the following information depicted:

- 1. Proposed name of the subdivision;
- 2. Names, addresses, and phone numbers of property owner(s) (including mortgage holders if any), surveyor, and applicant if different from property owner, and assumed business name(s) filed or to be filed with the Corporation Commission by the applicant;
- 3. Proposed subdivision showing the parcel boundaries and dimensions, the area of each parcel, location of any and all easements (and what the easement is), right-of-way widths, existing roads;
- 4. Date of map preparation, north point, scale, property identification by township, range, section and tax lot numbers;
- 5. Location of all existing buildings, creeks, canals, ditches, any topographical features (ie., canyons, bluffs, wetlands, natural springs, floodplain);
- 6. Location, width, name, curve ratio, and approximate grade of all proposed right-of-ways;
- 7. Location of any existing features such as section lines, section corners, city and special district boundary lines, and survey monuments;
- 8. Existing sewer lines, water mains, culverts, and other underground and overhead utilities within and adjacent to the proposed subdivision together with pipe sizes, grades and locations;
- 9. Contour lines related to some established bench mark or other engineering acceptable datum;
- 10. Zoning of subject property, and adjacent tax lots to the proposed subdivision;
- 11. Location, names, width, typical improvements, cross sections, bridges, culverts, approximate grades, curve radii and centerline lengths and reserve strips of all proposed streets, and the relationship to all existing and projected streets;
- 12. Location, width and purpose of all proposed easements or right-of-ways, and relationship to all existing easements and right-of-ways;
- 13. Location of at least one temporary bench mark within the proposed subdivision boundary;
- 14. Location, approximate area and dimensions of each lot, and proposed lot and block numbers;
- 15. Location, approximate area and dimensions of any lot or area proposed for public use, the type of use proposed, and plans for improvements or development;
- 16. Proposed use, location, approximate area and dimensions of any lot intended for non-residential use;

17.	Source, me	ethod, and	preliminary	plans for	domestic and	other water	supplies.	sewer lines.	and all	utilities
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- 18. Description and location of any proposed community facility;
- 19. Storm water and other drainage facility plans;
- 20. Proposed deed restrictions including access restrictions or protective covenants if such are proposed to be utilized for the proposed subdivision;

## ADDITIONAL SUBMITTALS

- 21. Statement from each utility company proposed to serve the proposed subdivision stating that each company is able and willing to serve the proposed subdivision as set forth in the tentative plan, and the conditions and estimated costs of each service;
- 22. Proposed Fire protection system for the proposed subdivision and written approval thereof by the fire chief.
- 23. Statement from School District.

1.

\*\*\*\*\*\*

## REQUIREMENTS

\*\*\*\*\*\*

A vicinity map must be submitted showing the proposed subdivision in relationship to the adjacent

What is the intended use of the parcels being created?  Nine Single Family Attached residences through three town home structures.  What is the current use of the parcel?  Unimproved, vacant land.  Proposal is in compliance with the City of Warrenton's Comprehensive Plan and Development Code Site is zone for Commercial Mixed Use (CMU) for which single family attached townhome development is an outright permitt use. The project is also bound by the south, west and east to similar single family detached units. City of Warrenton's 2011 site the need for emphasis of increased housing demand and sites specifically attached single family dwellings as a means.		
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	Propo Site is	al is in compliance with the City of Warrenton's Comprehensive Plan and Development Coo

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	All required public services and facilities are available and adequate or are proposed to be provided to pplicant.
_	Confirmed. Will Serves from Pacific Power and Northwest Natural Gas provided.
_	
p	The subdivision contributes to orderly development and land use patterns in the area, and provides for preservation of natural features and resources such as streams, lakes, natural vegetation, and special features.
TI	he subdivision is consistent with the surrounding land uses and zoning criteria. Landscaping established through HOA will
	tilize plants, grasses and practices consistent with marine area landscaping and local nature. There are no streams, lakes o special terrain on the site.
d <u>c</u>	The subdivision will not create an excessive demand on public facilities and services required to service levelopment.  Confirmed. The additional of 9 attached residential dwelling units will not create undo demand on public utilities. Developer dentified inadequate water flow to the site and as part of the improvement plans will upsize the sizing of the water facilities to compensate for the new units. Additionally, the city has identified additional surface water issues generated from neighboring structure's utilizing storm surface flow practices. Developer will also be extending public storm systems to correct this issues
_	as install its own storm systems onsite to mitigate future concerns.
	The preliminary plat for the proposed subdivision meets the requirements of ORS 92.090.  Confirmed
_	

Return Application To: City of Warrenton
Planning and Building Department

PO Box 250

225 SW Main Street

Warrenton, Oregon 97146 Phone: 503-861-0920

Fax: 503-861-2351

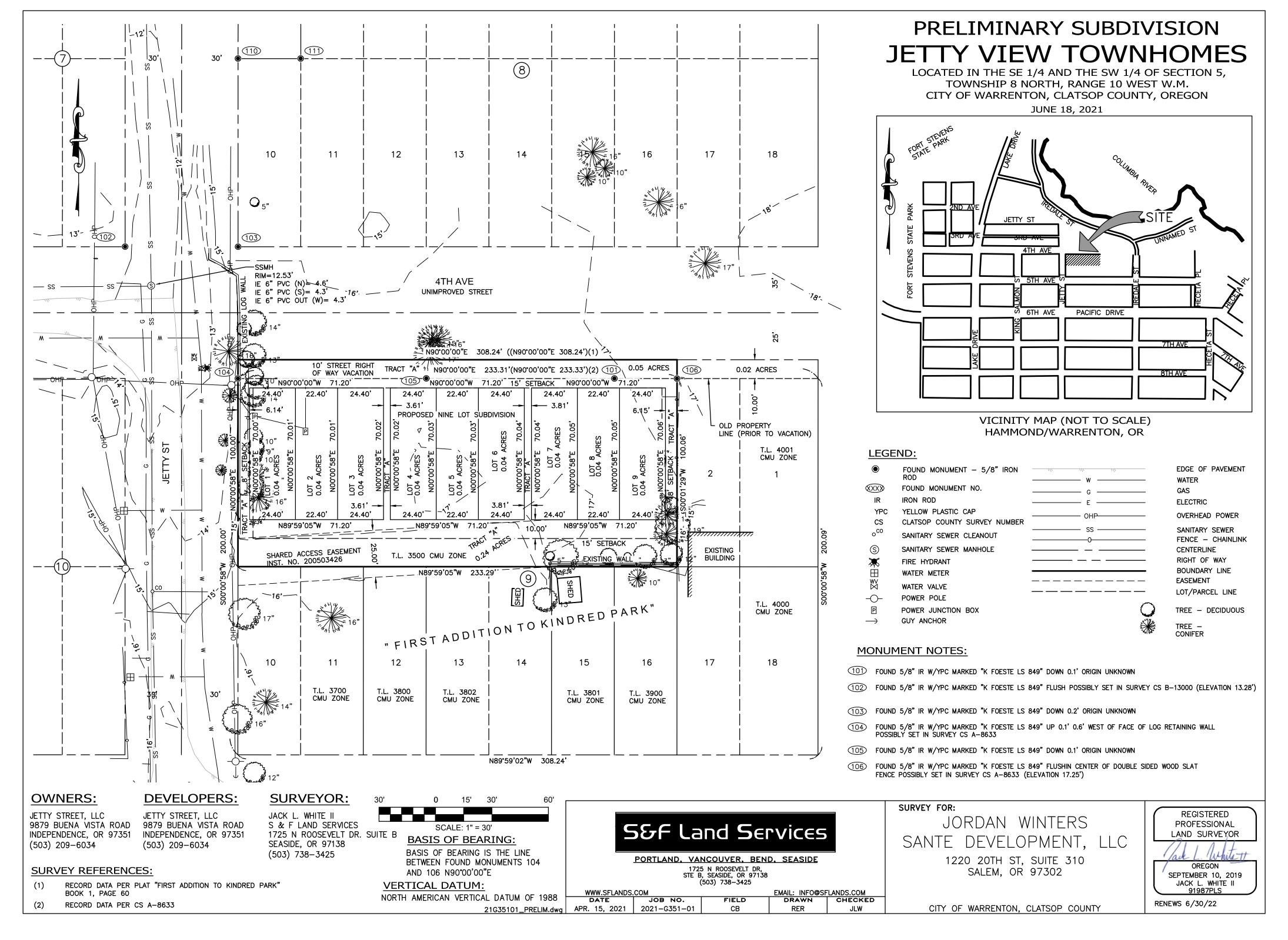
## PROJECT NARRATIVE FOR JETTY VIEW TOWNHOMES

Jetty Street, LLC proposes to construct a total of nine townhome units on the property located at 444 Jetty Street, LLC by way of constructing three separate structures of three units each, with each structure residing on their own individual legal lot of record.

The legal use of the lot shall be for townhomes by way of the Single-Family Attached definition in Chapter 16.12.010. The CMU district identifies townhomes as an outrighted permitted use. Further, the code looks to Chapter 16.36 to identify standards for residential use within the CMU zone. The proposed density of nine units is less than the maximum allowed of fifteen. Each lot will own a 1/9th undivided interest of the common area lot, which will be enjoyed by all of the owners. This combined with each legal lot of record results in a total individual ownership of 5,648 to 5679 square feet, exceeding the minimum lot size of 2,500. Setbacks, as shown on the provided site plan, meet the requirements as set forth in Section B. 36" entry doors have been provided on street frontage side, with 56 square feet of glazing facing Jetty Street (side) and 186 square feet of glazing facing 4<sup>th</sup> Street (front). Per the design standards of Section 16.184.030, the building massing meets the criteria as the buildings are contained to three units and does not exceed 200 feet in length. Access and garage door standards would not apply as there will be a single curb cut through Jetty Street to the west and alleyway access via a private drive easement to allow each of the nine units access to the garages situated on the south face of the buildings. Lastly, the common areas will be maintained by an HOA through a separate legal entity (see tract A of preliminary plat) that will hold the commonly held area.

Massing of the exterior façade will be made up of a combination of James Hardi Cementous products, including lap siding, board and batt, and prefabricated panel boards, as well as Hardi trim used for door and window wraps. Reliance upon these products in this climate should provide for a solid building exterior that will be highly resistant to the unique marine climate where the project is situated. Additionally, use of decorative cedar shingles and post wraps will give a nice contrast to the darker grey tones used throughout the paint scheme as provided in the attached rendering, where the goal is to provide a "nautical" look compatible with the surrounding marine climate. Synthetic stone will be used at the fronts of the buildings to provide for further accents and added aesthetics.

The project fits well within the surrounding community. It is bound by its south, west and east by single family residences and will have very low impact on surrounding uses. Half street improvements required by code will help with vehicular and pedestrian traffic flow as well as improve some existing storm water build up occurring presently. This will also help fill the lack of sufficient housing in the community.



# JETTY STREET LLC JETTY VIEW TOWNHOMES RIGHT-OF-WAY IMPROVEMENTS FOURTH AVENUE & JETTY STREET HAMMOND, CLATSOP COUNTY, OREGON

## Appendix A - Standard Notes

Standard notes are to be included on all plan sets submitted. Sections not included in the work may be omitted with approval from the Public Works Director or their authorized representative.

No person shall do work affecting the public right-of-way without first obtaining a permit from the Public Works Department. Work affecting the right-of-way includes, but is not limited to, construction, reconstruction, grading, oiling, repair, opening or excavation of a sidewalk, street, curb, driveway, culvert or ditch in a public right-of-way, but does not include the construction of improvements

Construction shall conform to the Oregon Specifications and Standard Drawings for Construction and as revised by the City of Warrenton. Any condition not described in the permit shall be per submitted plans and to all applicable requirements of APWA, AWWA, DEQ, EPA, DSL, and ODOT Construction Standards.

It shall be the responsibility of the Contractor to verify all utility locations prior to construction and arrange for the relocation of any in conflict with the proposed construction. The locations, depth, and description of existing utilities shown were compiled from available records and-or field surveys. The City or utility companies do not guarantee the accuracy of the completeness of such records. Additional utilities may exist within the work area.

Oregon law requires that the rules adopted by Oregon Utility Notification Center be followed. Those rules are set forth in OAR 952-001-0090. The contractor is responsible to call 1-800-332-2344 for locates prior to excavation. Any damage to City or private services shall be repaired by the contractor with own

The contractor shall make provisions to keep all existing utilities (including non-locatable) in service and protect them during construction. Contractor shall be responsible for the immediate notification of damage to utilities and the repair or replacement of damaged utilities using materials and methods approved by the utility owner. No service interruptions shall be permitted without prior written agreement with the utility owner/provider

The contractor shall pothole and verify location and depth of all existing utilities prior to the start of construction. The contractor shall take all necessary field measurements and otherwise verify all dimensions and existing construction conditions indicated and or shown on the plans. Should any error or inconsistency exist, the contractor shall not proceed with the work affected until reported to the design engineer for clarification or correction.

All project elements shall be constructed per approved project drawings; specifications; federal, state and local permits; and preconstruction meeting notes.

The contractor shall keep an approved set of plans on the project site at all times

## **Engineering Design Standards**

April 2020

All DSL, DEQ, ODOT, and OHA permits and regulations will be the responsibility of the developer.

Project inspection on private projects is the responsibility of the developer. The City Warrenton requires the design engineer to monitor construction standards and workmanship.

Project Plans shall always have an engineer-of-record performing the function of design engineer. If the design engineer is changed during the course of the work, the City shall be notified in writing and the work shall be stopped until the replacement engineer has agreed to accept the responsibilities of the design engineer. The new design engineer shall provide written notice of accepting project responsibility to the City within 72 hours of accepting the position as design engineer.

Infrastructure through neighboring property is allowed only when recorded access easements are granted by owners. Recorded easements shall be submitted to Public Works prior to the start of the warranty period.

## Subdivision projects are required to have utility location plan.

All public, private and franchise utilities shall be in place prior to project final approval and acceptance, e.g. all street lights must be in and operational.

All survey monuments on the project's site or that may be subject to disturbance within the construction area, or the construction of any off-site improvements shall be adequately referenced and protected prior to commencement of any construction activity. If the survey monuments are disturbed, moved, relocated, or destroyed as a result of any construction, the contractor shall, at their cost, retain the services of a registered professional land surveyor in the state of Oregon to restore the monument to its original condition and file the necessary surveys as required by Oregon State Law.

Grading and Fill/Excavation Permits or Private Service Plumbing Permits shall be required when work is performed on private property. Owner, engineer, or contractor must contact the City of Warrenton Planning and Building Department, prior to construction.

The contractor is required to meter construction water through a City hydrant water meter. Water used during construction for dust control or other procedures shall be with a permit and fee. Certain hydrants are available, permits for connection and flow are required from the Public Works Department, and backflow devices shall be present.

All existing streets and sidewalks to be cleaned and or protected daily. City has the right to enforce cleaning and safety issues. The contractor can be fined or charged for Public Works time and material. Trench excavation on existing roadways need to be cold patched and kept smooth with existing asphalt

Contractor shall erect and maintain temporary traffic control per the "Manual on Uniform Traffic Control Devices" (MUTCD), Part 6, and deviations to the MUTCD as adopted and modified by ODOT. Should work be in an existing public right of way that is open to traffic, the contractor shall submit a

## LEGEND **EXISTING PROPERTY LINES ROAD CENTERLINE EXISTING WATERLINE** PROPOSED WATERLINE **EXISTING GATE VALVE** PROPOSED GATE VALVE **EXISTING HYDRANT EXISTING SEWER LINE EXISTING SEWER MANHOLE** PROPOSED SEWER MANHOLE **EXISTING DRAINAGE PIPE** PROPOSED DRAINAGE PIPE PROPOSED DRAINAGE MANHOLE PROPOSED CATCH BASIN/ **SEDIMENT BASIN** EXISTING EDGE OF GRAVEL PROPOSED ASPHALT ROADWAY PROPOSED CURB AND SIDEWALK

**Engineering Design Standards** 

traffic control plan with ROW permit to appropriate City, County, and State personnel for approval. Approvals shall be obtained prior to start of work.

Any inspection by the City, County, State, Federal Agency or design engineer shall not, in any way, relieve the contractor from any obligation to perform the work in compliance with the applicable codes, regulations, city standards and project contract documents.

Tracer wire installation shall be performed in such a manner that allows proper access for connection of line tracing equipment, proper locating of wire without loss or deterioration of low frequency signal, and without distortion of signal caused by more than one wire being installed in close proximity to one

Tracer wire systems must be installed as a single continuous wire, except where using approved connectors. No looping or coiling of wire is allowed. One foot of excess/slack wire is required in all tracer wire access points after meeting final elevation.

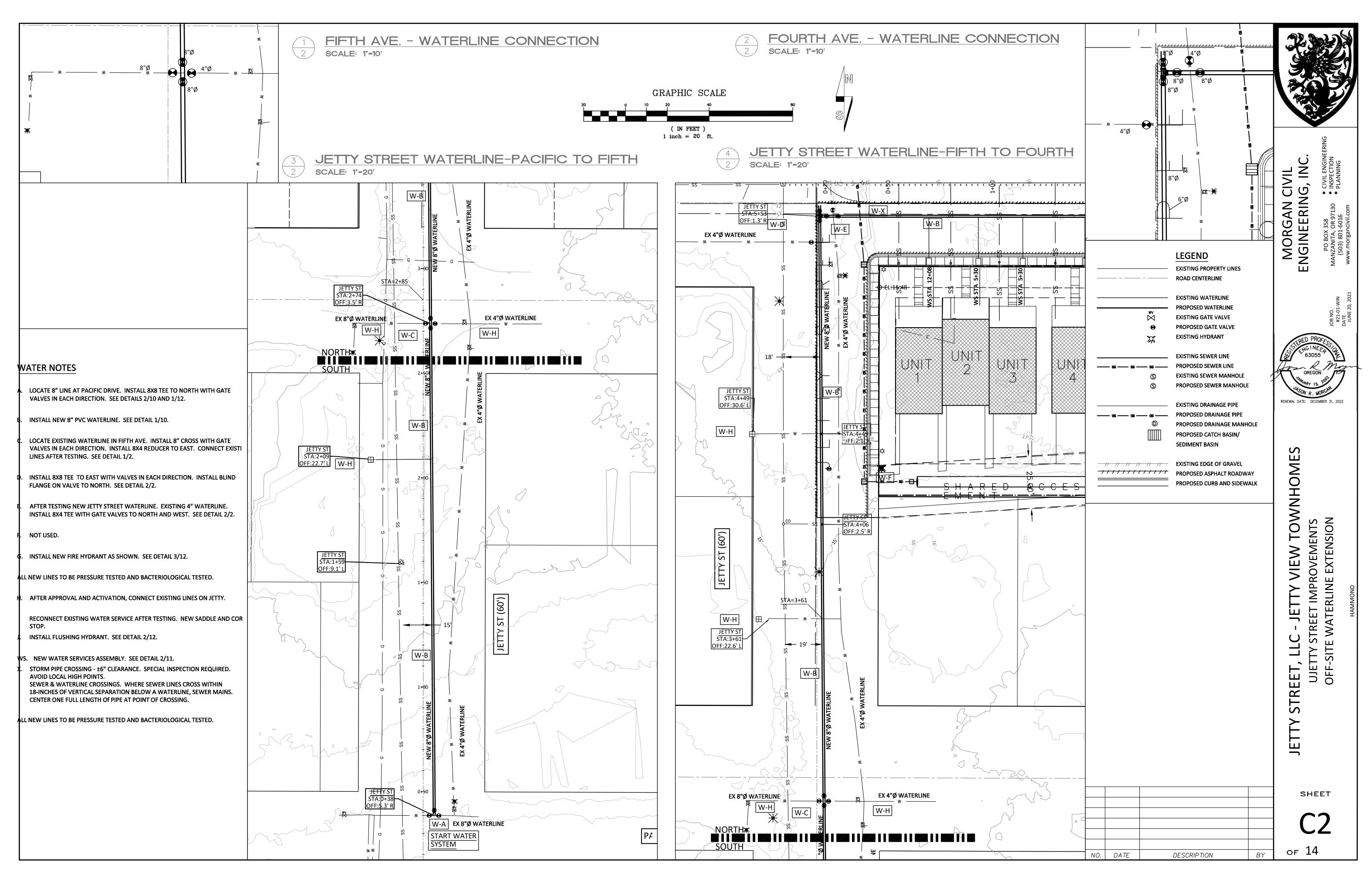
All new tracer wire installations shall be located using typical low frequency (512 Hz) line tracing equipment, witnessed by the design engineer or Public Works Department, prior to acceptance of ownership. This verification shall be performed upon completion of rough grading and again prior to final acceptance of the project.

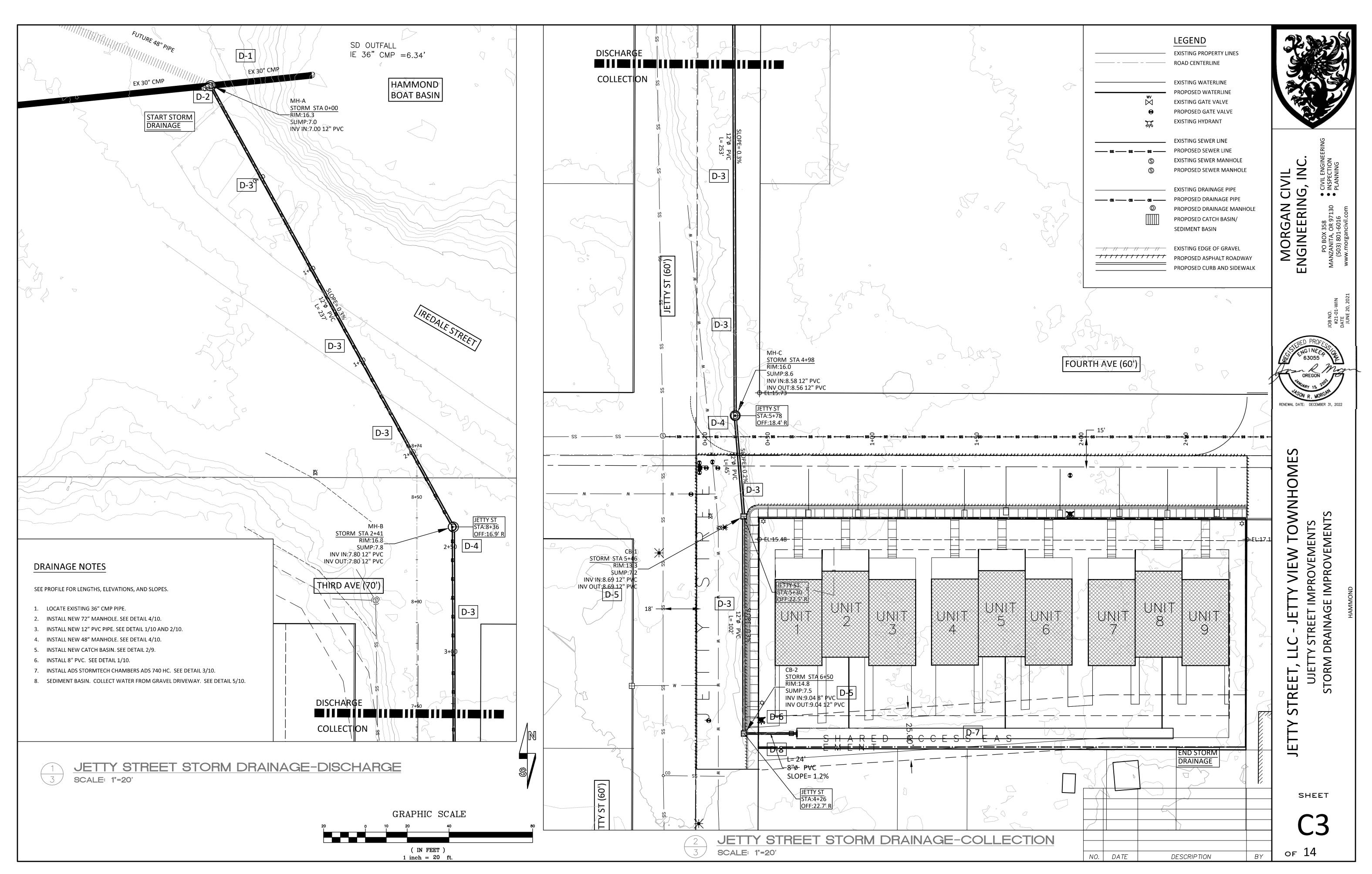
Upon completion of construction, the contractor shall submit "redline drawings" to design engineer for preparation of record drawings. "Redline drawings" document all deviations and revisions to the approved plans; they also record a description of construction materials actually used (pipe material, etc.). From the information contained on these redline drawings, as well as any notes recorded by the design engineer, the design engineer shall prepare and submit record drawings to Public Works Engineering Development Services. Record drawings are required for any public improvements. City acceptance of any public improvements are tied to the submittal of these record drawings. CADgenerated plans shall also have electronic record drawings submitted to the City in compliance with the digital mapping requirements. Comply with section 2.11 As-Built Documents of the City of Warrenton Engineering Design Standards.

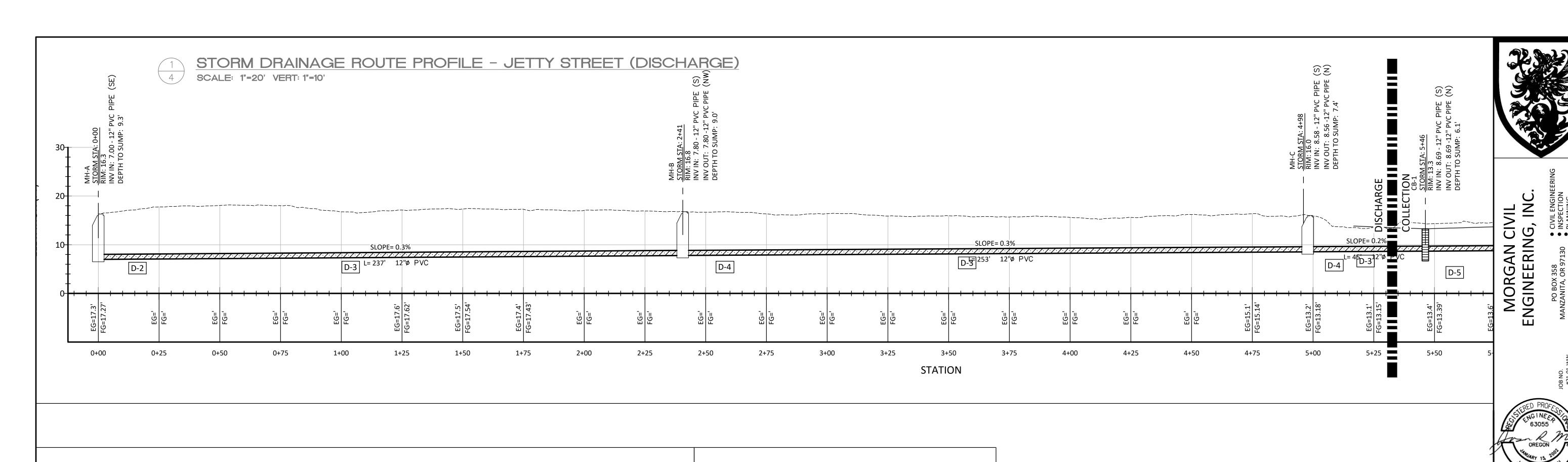
## **UTILITY LOCATE ONE CALL** SHEETS SD OUTFALL IE 36" CMP =6.34" C1 - COVER SHEET (1-800-332-2344) or (8-1-1) **C2 - JETTY ST WATERLINE C3 - JETTY ST STORM DRAINAGE BOAT BASIN** C4 - JETTY ST DRAINAGE PROFILE C5 - FOURTH AVE UTILITIES ATTENTION: OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED **C6 - FOURTH AVE ROADWAY** BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET C7 - ROADWAY PROFILES FORTH IN OAR 952-001-0010 THROUGH OAR 952-001-0090. YOU MAY **C8 - SEWER NOTES & DETAILS** OBTAIN COPIES OF THE RULES BY CALLING THE CENTER. (NOTE: THE TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER **C9 - DRAINAGE NOTES & DETAILS** C10 - DRAINAGE DETAILS **C11 - WATER NOTES & DETAILS** C12 - WATER DETAILS PROPERTY IS TAX LOT 3500, MAP 08N 10W 05 CD. C13 - ROAD NOTES & DETAILS JETTY STREET AND FOURTH AVENUE, HAMMOND, OR C14 - ROAD DETAILS BASIS OF ELEVATIONS IS NORTH AMERICAN VERTICAL DATUM OF 1988 TIDAL STATION DISK LOCATED AT THE HAMMOND MARINA, 0.2 MILES EAST OF THE MARINE OFFICE AND AT THE JUNCTION OF IREDALE STREET SCOPE OF WORK AND A SAND ROAD LEADING TO THE RIVER. EL = 17.7512"Ø STORM DRAIN LINE 8"Ø STORM DRAIN LINE 255 LF **UTILITIES SERVICE PROVIDERS** 72"Ø CONCRETE DRAINAGE MANHOLE 1 EA 48"Ø CONCRETE DRAINAGE MANHOLE 2 EA CONCRETE CATCH BASINS **WATER-SEWER-ROADS** 30"x16" STORM DRAIN CHAMBERS 180 LF **CITY OF WARRENTON** THIRD AVE (70' JETTY STREET, LLC 45 SW 2ND ST 9879 BUENA VISTA ROAD 8"Ø WATERLINE WARRENTON, OR 97146 **INDEPENDENCE, OR 97351** 8" CROSS (503) 861-0912 3 EA **GATE VALVES** 12 EA WATER SERVICE ASSEMBLIES 9 EA **SURVEYING - 1** PACIFIC POWER **RECONNECT WATER SERVICES** 2 EA **BARKER SURVEYING 825 NE MULTNOMAH** FIRE HYDRANT ASSEMBLIES 2 EA **3657 KASHMIR WAY SE** PORTLAND, OR 97232 **SALEM, OR 97317** 48" CONC. SEWER MANHOLE 1 EA 800-469-3981 (503) 588-8800 8"Ø PVC SEWER PIPE 290 LF ATTN: GREGORY BARKER, PLS **SEWER SERVICES SURVEYING - 2** NORTHWEST NATURAL GAS 24' WIDE ROADWAY CONSTRUCTION **S&F LAND SURVEYING CONCRETE CURB & SIDEWALK** 176 W MARINE DR 1725 N ROOSEVELT DRIVE #B **ASPHALT 200 TON** ASTORIA, OR 97103 **LEVELING ROCK** 150 CY SEASIDE, OR 97138 (503) 325-1632 BASE ROCK 440 CY (503) 738-3425 820 SY ATTN: JACK WHITE, PLS FOURTH AVE (60') ROAD - HALF-STREET DEVELOPMENT ON FOURTH AVE AND JETTY STREET, ALONG TOWNHOMES STORM - INFILTRATE WATER FROM BUILDINGS. WATER FROM ROADS TO BE CONVEYED TO BOAT BASIN. **SEWER - INSTALL ON FOURTH AVENUE** WATER - EXTEND FROM PACIFIC AVE ON JETTY ST AND DOWN FOURTH AVE. FOURTH AVE (70' PROPERTY SIZE = 23,330 SF = 0.56 ACRES SEE 2018 OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION WITH SUPPLMEENTAL CITY GENERAL CONDITIONS AND SPECIAL PROVISIONS GRAPHIC SCALE MPROJECT LOCATION FIFTH AVE (70') ROJ April 2020 ш 7 PACIFIC AVE (100') PACIFIC AVE (100' CITY APPROVAL SHEET **REVIEWED BY:** of 14

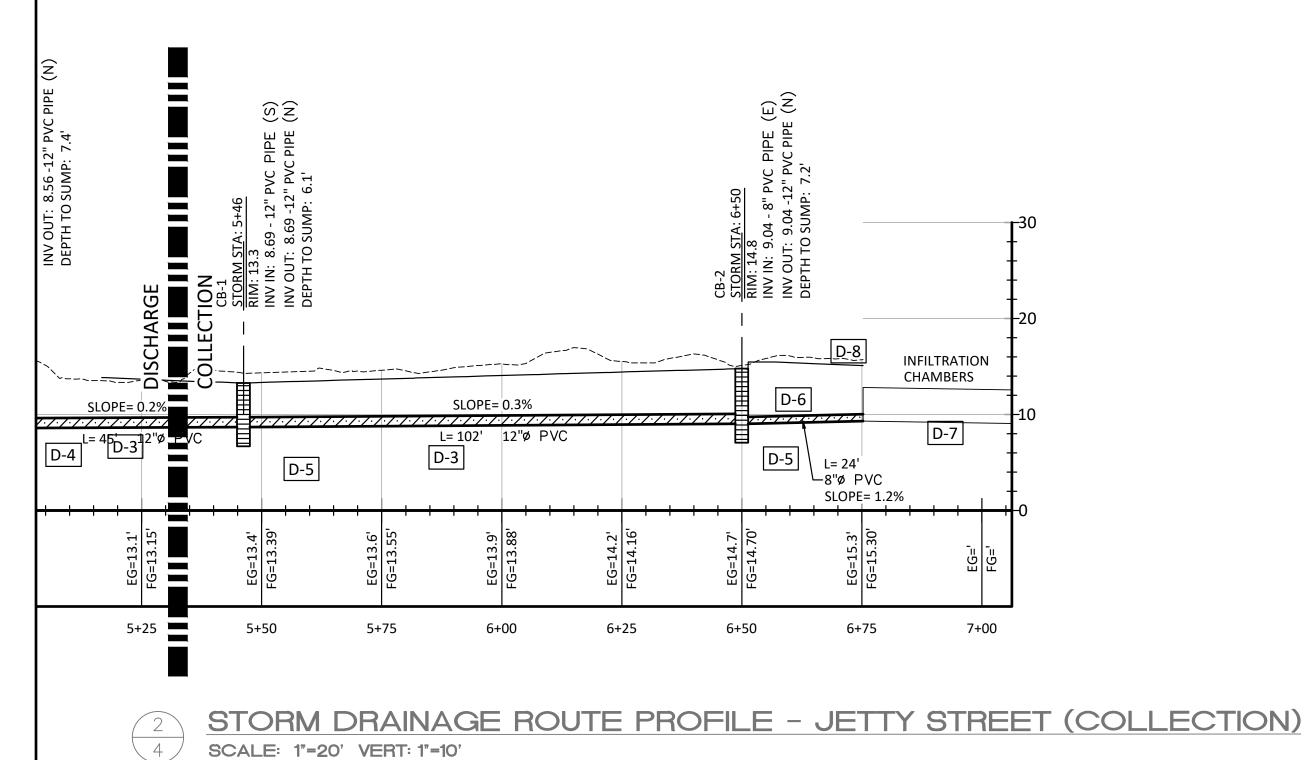
DATE

DESCRIPTION









## DRAINAGE NOTES

SEE PROFILE FOR LENGTHS, ELEVATIONS, AND SLOPES.

- 1. LOCATE EXISTING 36" CMP PII
- 2. INSTALL NEW 72" MANHOLE. SEE DETAIL 4/10.
- 3. INSTALL NEW 12" PVC PIPE. SEE DETAIL 1/10 AND 2/10
- 4. INSTALL NEW 48" MANHOLE. SEE DETAIL 4/10.
- 5. INSTALL NEW CATCH BASIN. SEE DETAIL 2/9.
- 6. INSTALL 8" PVC. SEE DETAIL 1/10.
- 7. INSTALL ADS STORMTECH CHAMBERS ADS 740 HC. SEE DETAIL 3/10.
- 8. SEDIMENT BASIN. COLLECT WATER FROM GRAVEL DRIVEWAY. SEE DETAIL 5/10.

## SPECIFICATIONS

## WATER

WATER PIPE - 8"Ø PVC A-900, IPS, SDR 18
GATE VALVES - AWWAS C509 OR C515, VANOUVER STYLE MODEL 910. C.I. BOX.
FIRE HYDRANTS - MUELLER SUPER CENTURION 250, A-243.

TRACER WIRE - 12-GAUGE SOLID COPPER CORE, BLUE INSULATION.

## **WATER SERVICES**

SERVICE TUBING - 1" MUNICIPEX (PEX) AWWA 904-06.
METER BOX - ARMORCAST WITH 20K RATED SOLID LIDS - COORDINATE WITH PWD.

## <u>SEWER</u>

8"Ø WATER PIPE - GREEN PVC, ASTM 3034, SDR 26
48" MANHOLES - PRE-CAST CONCRETE, ECCENTRIC, WITH STAIRS AND CAST IRON LID
72" MANHOLE - PRE-CAST CONCRETE, ECCENTRIC, WITH STAIRS AND CAST IRON LID
TRACER WIRE - 12-GAUGE SOLID COPPER CORE, GREEN INSULATION.

## STORM

STORM PIPE - WHITE PVC, ASTM 3034, SDR 26

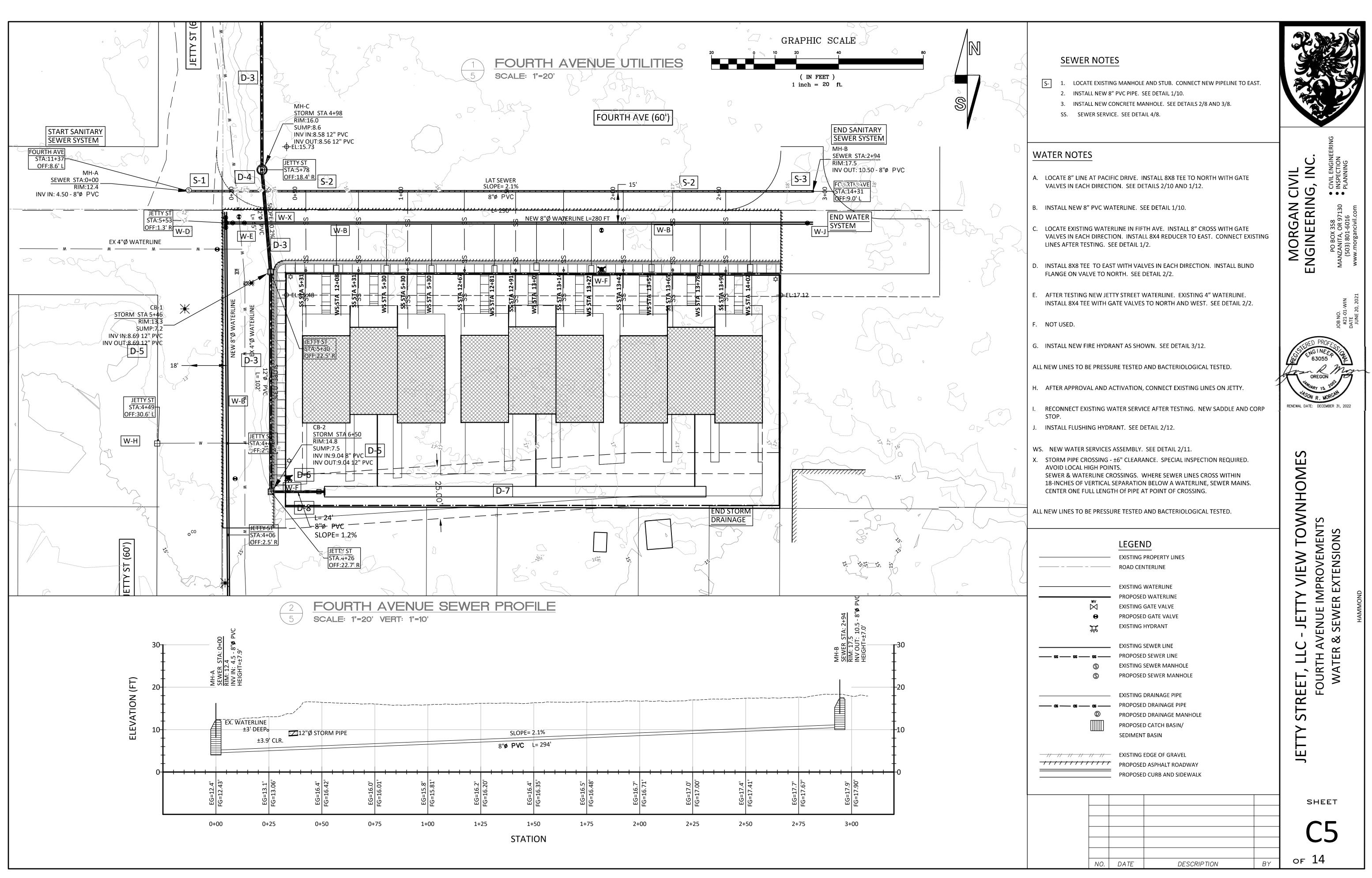
48" MANHOLES - PRE-CAST CONCRETE, ECCENTRIC, WITH STAIRS AND CAST IRON LID INFILTRATION CHAMBERS - STORMTECH SC-740 CHAMBERS

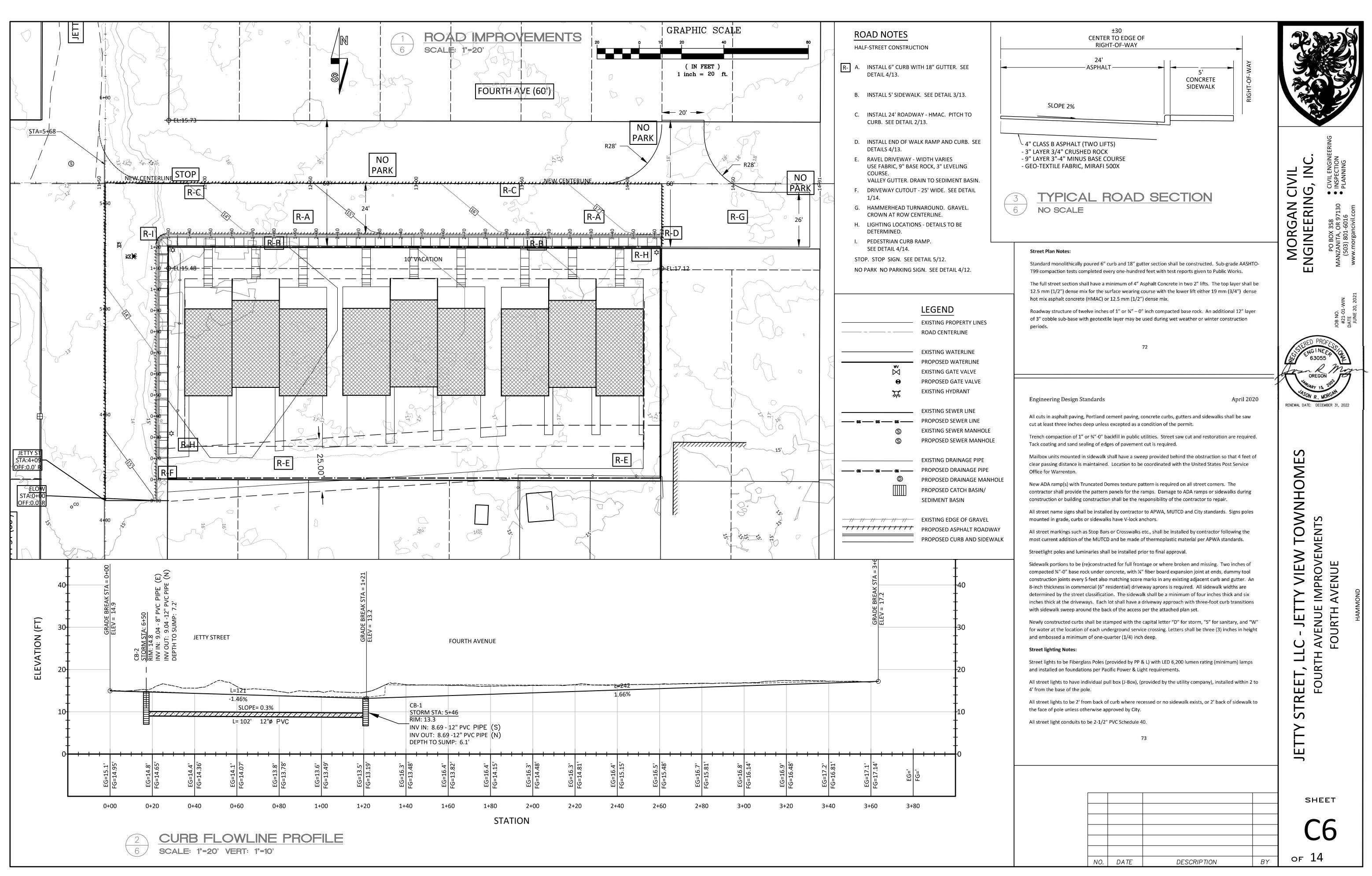
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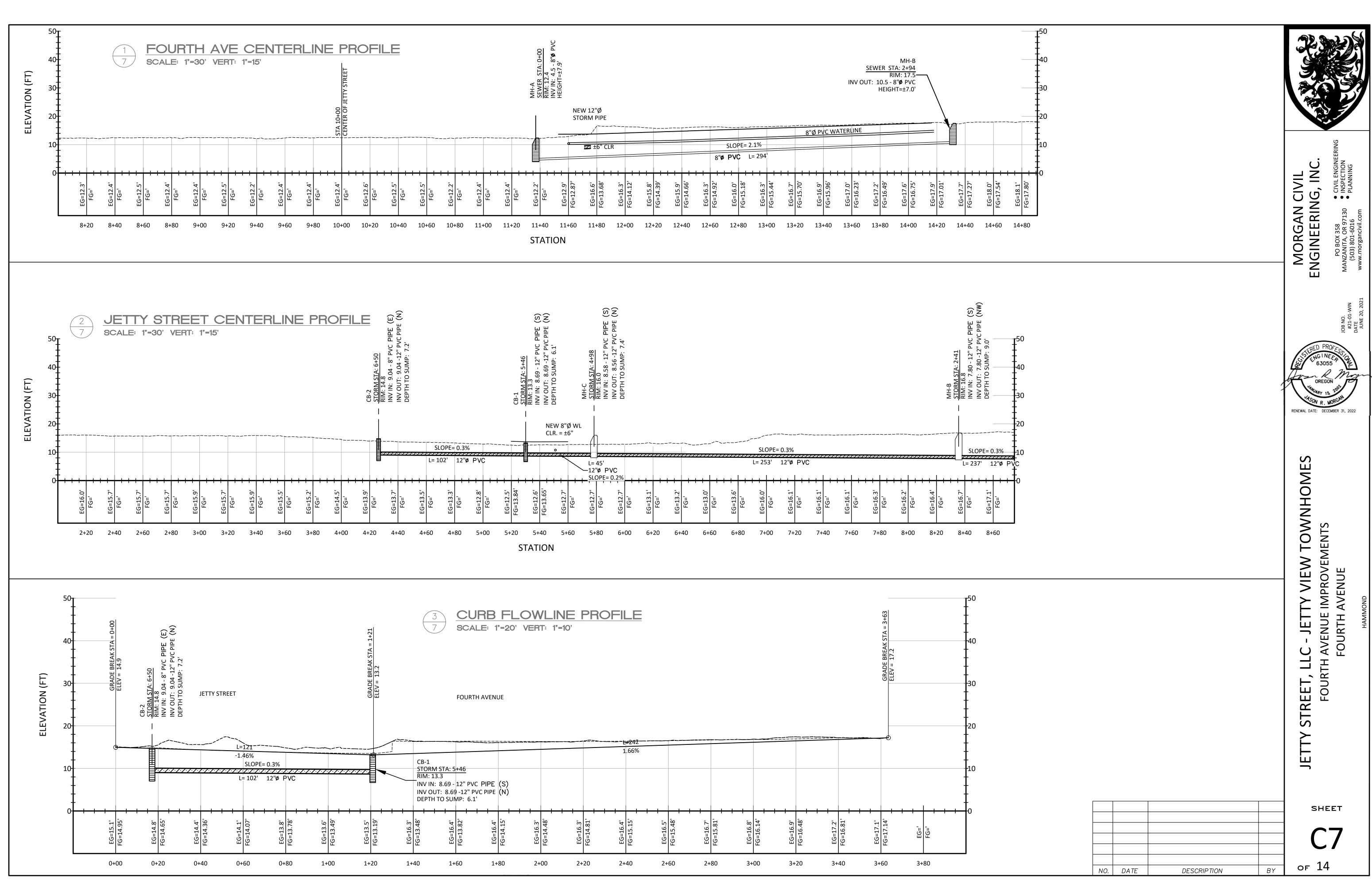
STREET, LLC - JETTY VIEW TOWNHO JETTY STREET IMPROVEMENTS STORM DRAINAGE SYSTEM PROFILE

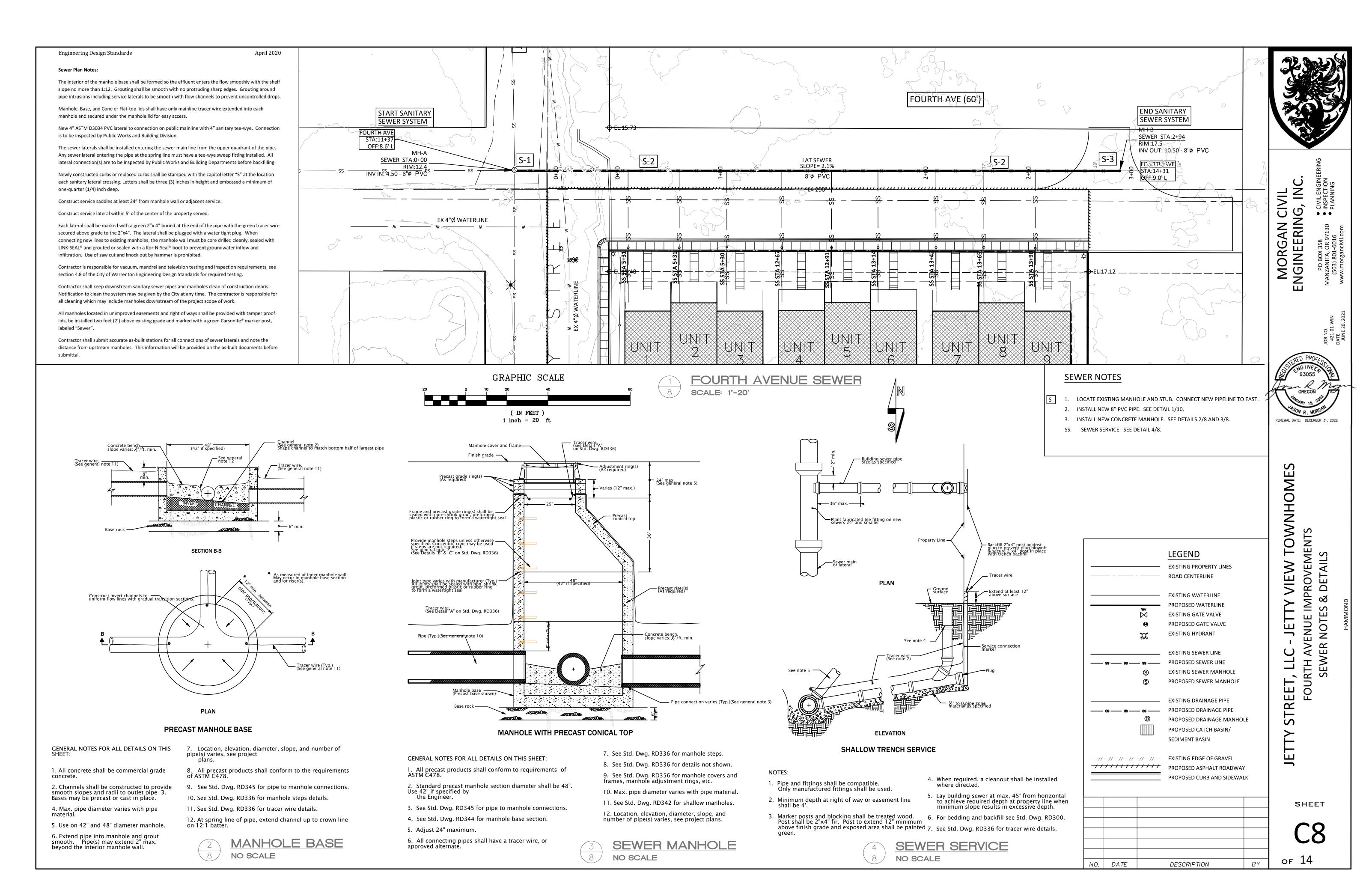
SHEET

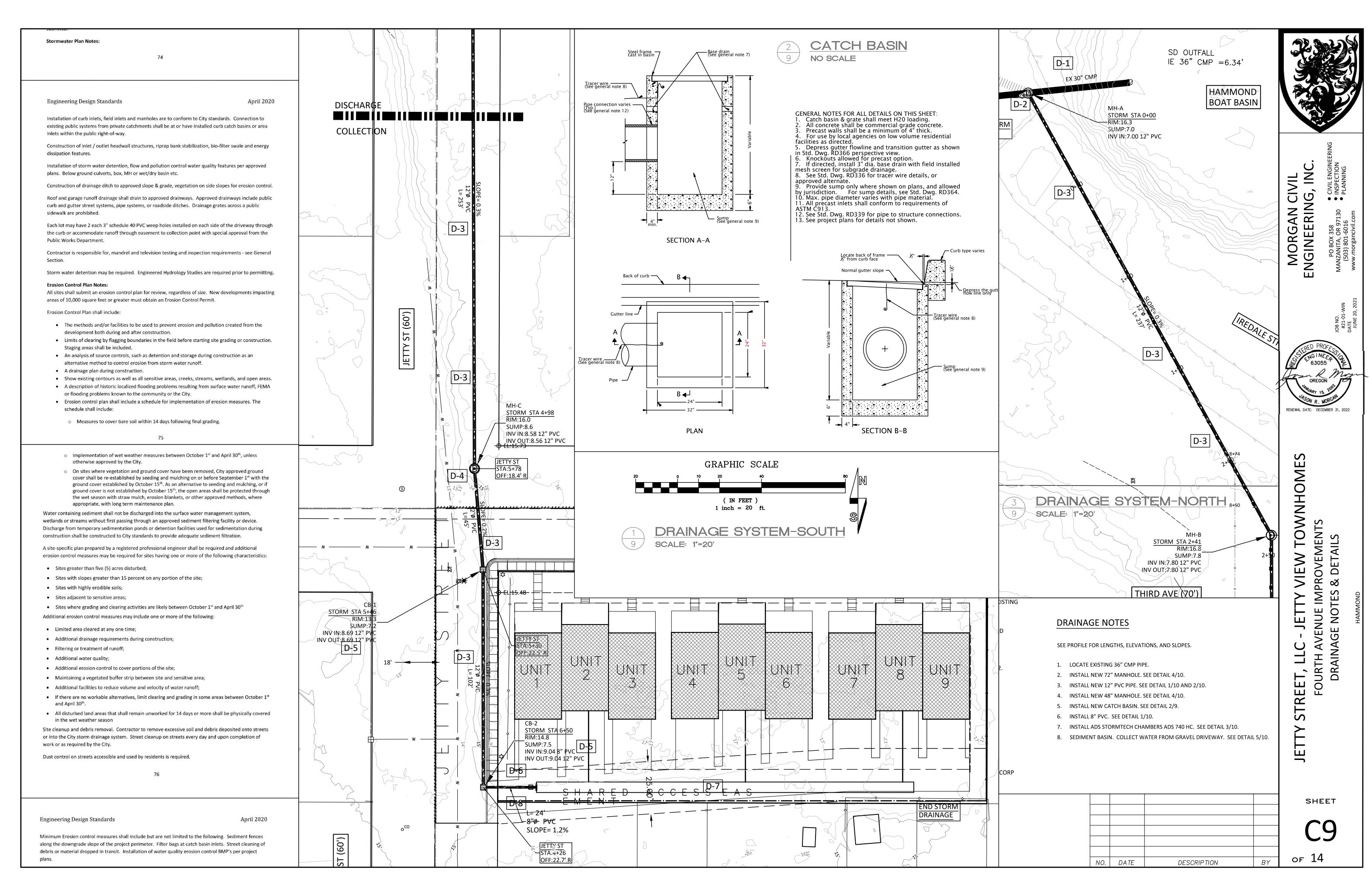
of **14** 

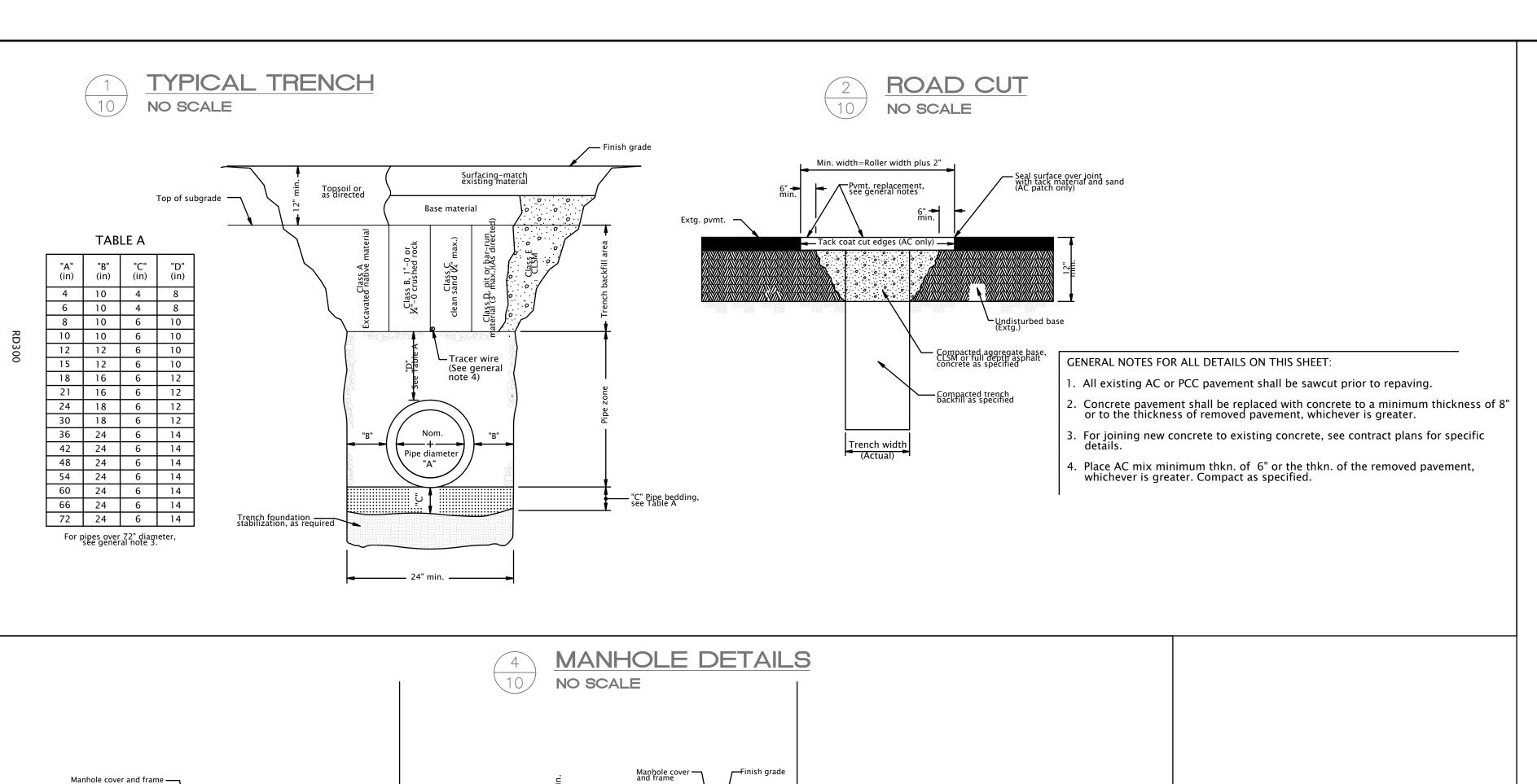












Finish grade —

DETAIL "A" TRACER WIRE

(See general note 6)

GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

2. Standard precast manhole section diameter shall be 48". Use 42" if specified by the

4. See Std. Dwg. RD344 for manhole base section.

6. All connecting pipes shall have a tracer wire, or approved alternate.

Place tracer wire directly over pipe centerline and

3. See Std. Dwg. RD345 for pipe to manhole

5. Adjust 24" maximum.

on top of the pipe zone material.

1. All precast products shall conform to requirements of ASTM C478.

Tracer wire -

Adjustment ring(s)
(As required)

**FRONT** 

See ODOT's OPL for acceptable alternate manhole steps. NOTE: No conflict with pipe align with available shelf.

7. Steps shall conform to requirements of ASTM C478.

8. See Std. Dwg. RD335 for details not shown.

10. Max. pipe diameter varies with pipe material.

11. See Std. Dwg. RD342 for shallow manholes.

12. See project plans for details not shown.

9. See Std. Dwg. RD356 for manhole covers and

When H=42" or less omit steps.
See Detail "C" for alignment of steps, and manhole cover and frame.

frames, manhole adjustment rings, etc.

SIDE

DETAIL "B" MANHOLE STEPS

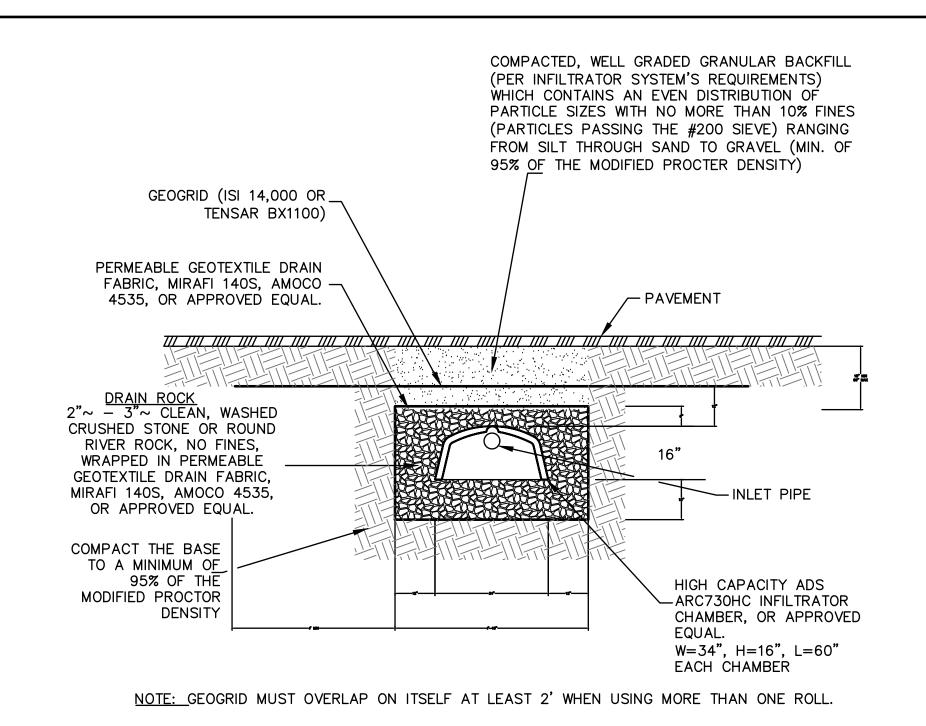
(See general note 7)



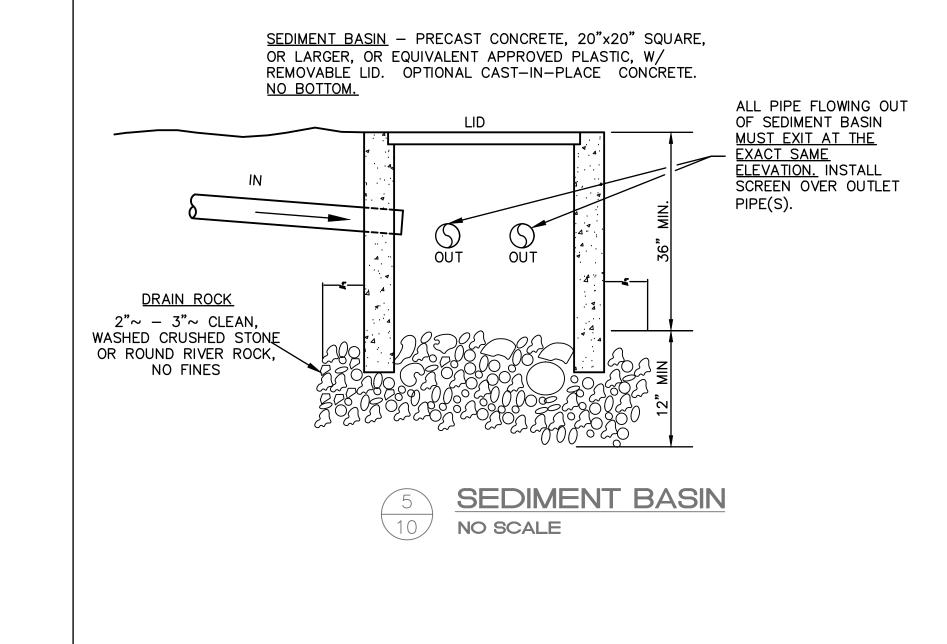
Manhole cover and frame (Align with steps)

DETAIL "C"
PRECAST CONICAL TOP

(See general note 7)



INFILTRATION TRENCH NO SCALE



of 14 NO. DATE DESCRIPTION

CIVIL VG, INC. MORGAN C ENGINEERING

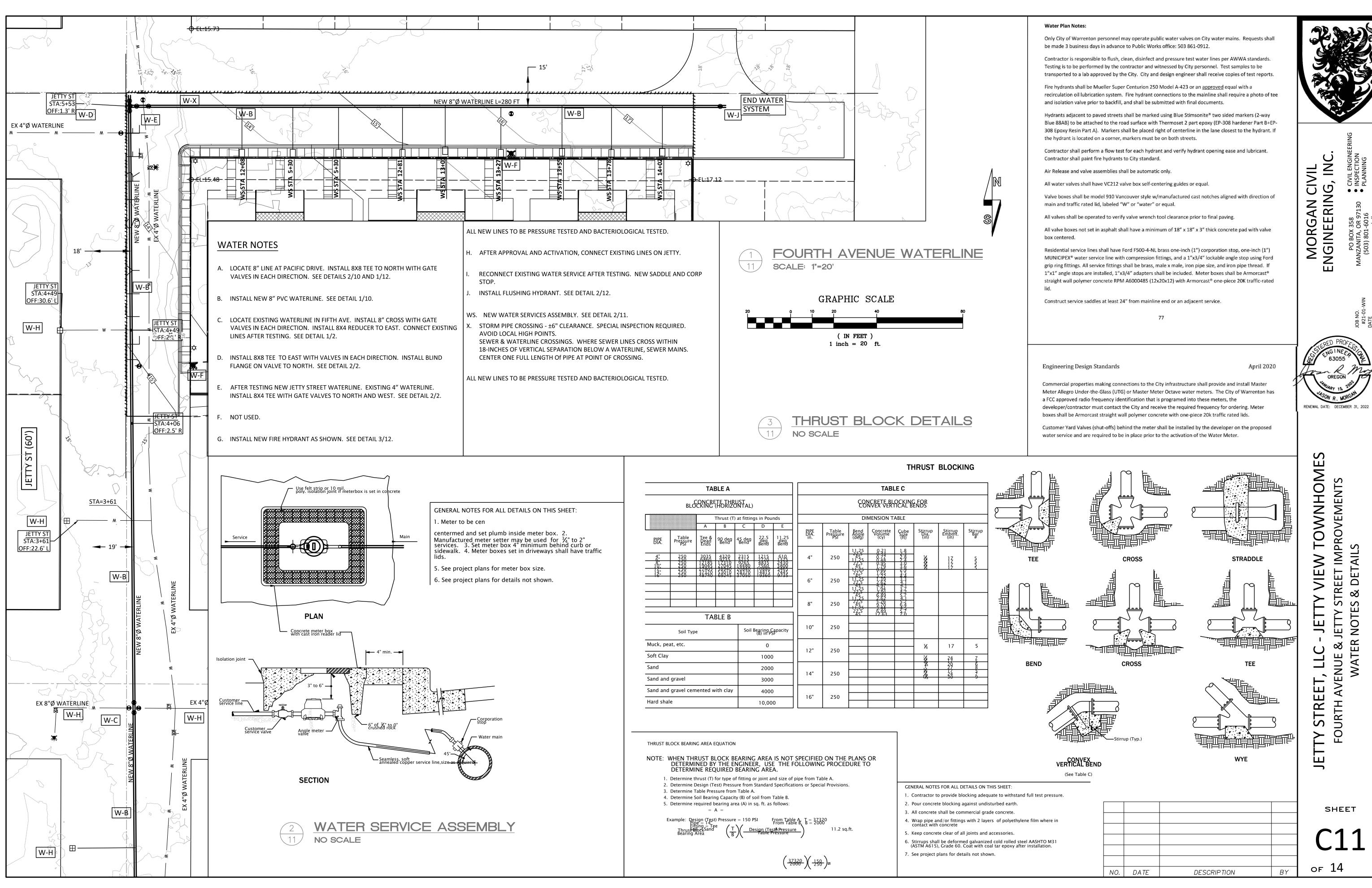
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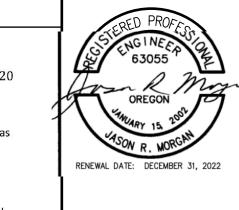
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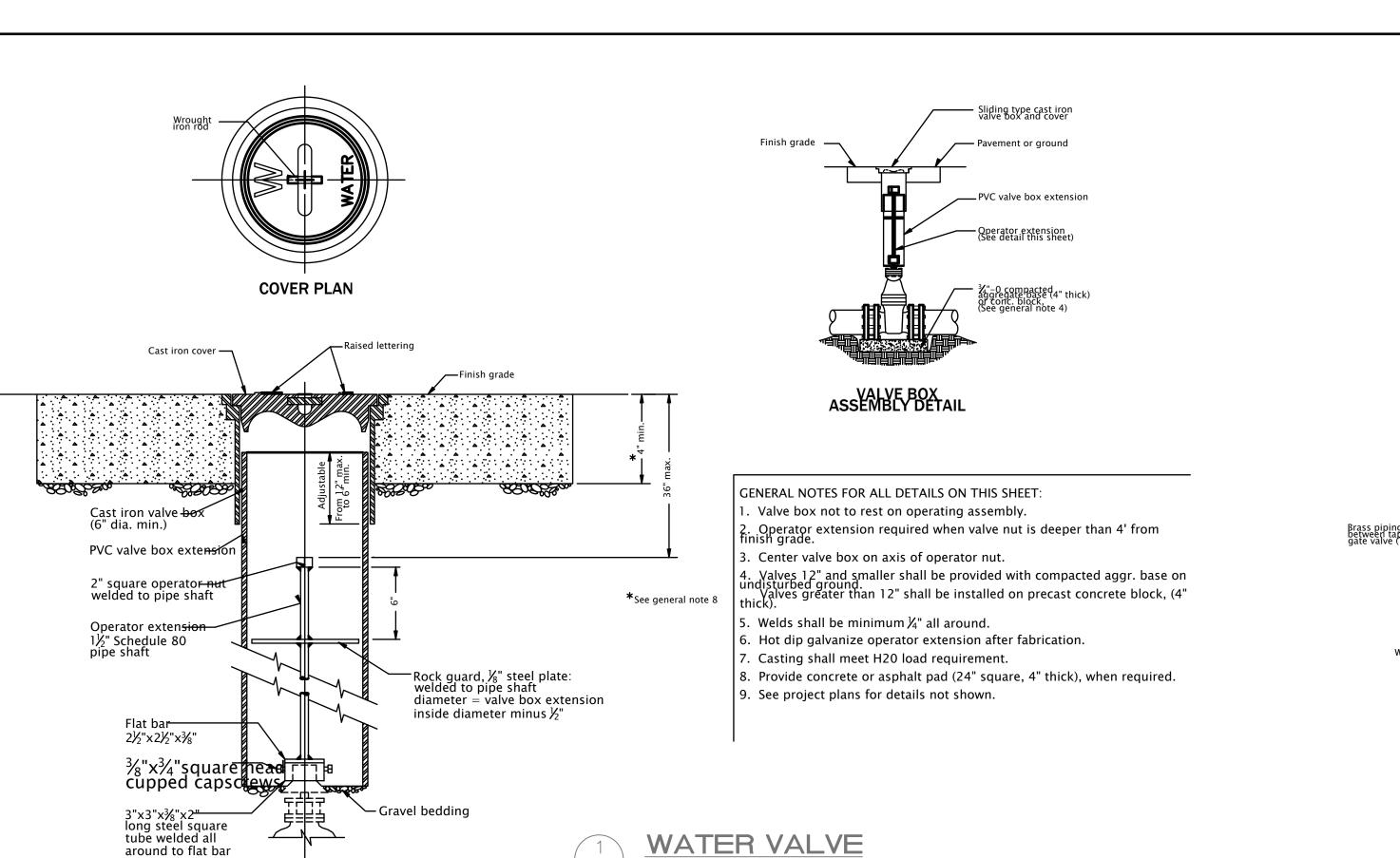
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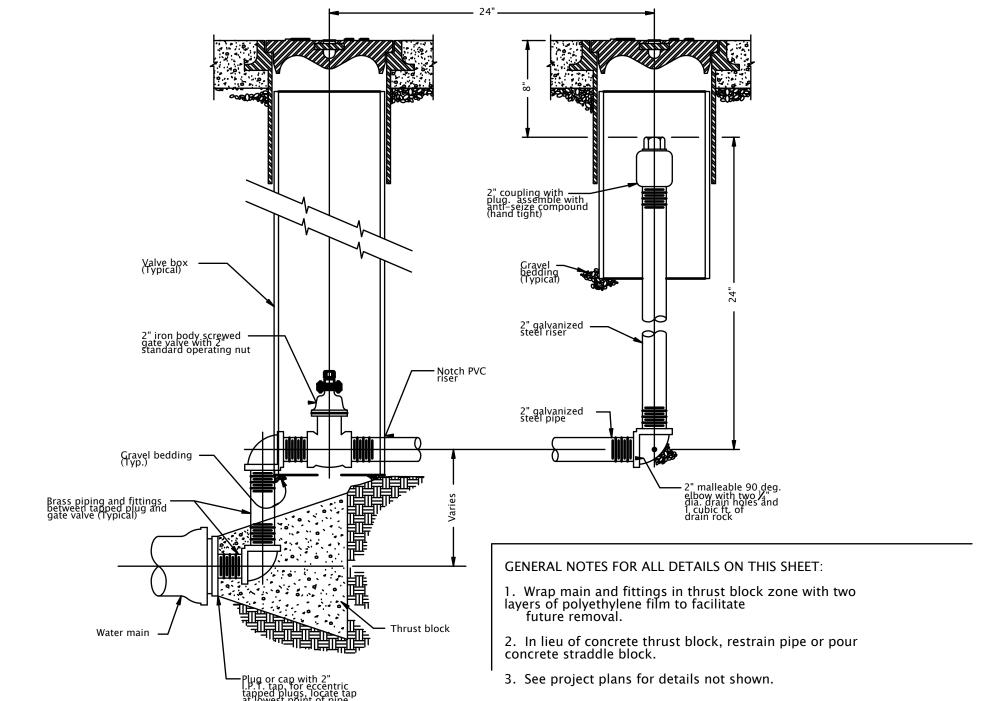
SHEET

53

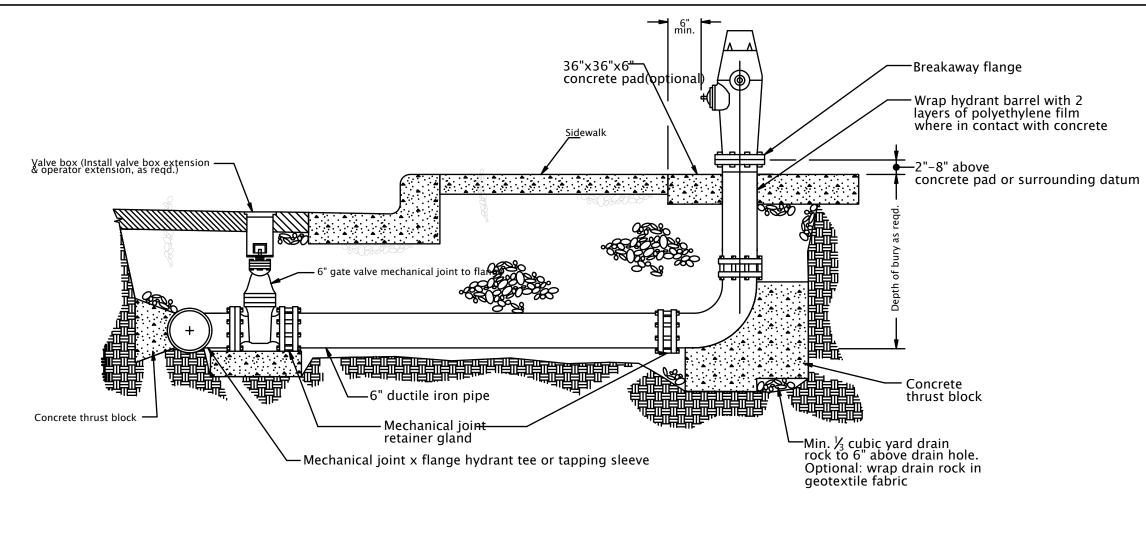








FLUSHING HYDRANT/BLOW-OFF NO SCALE



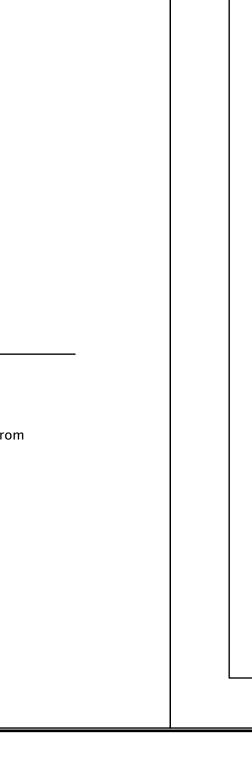
## HYDRANT ASSEMBLY

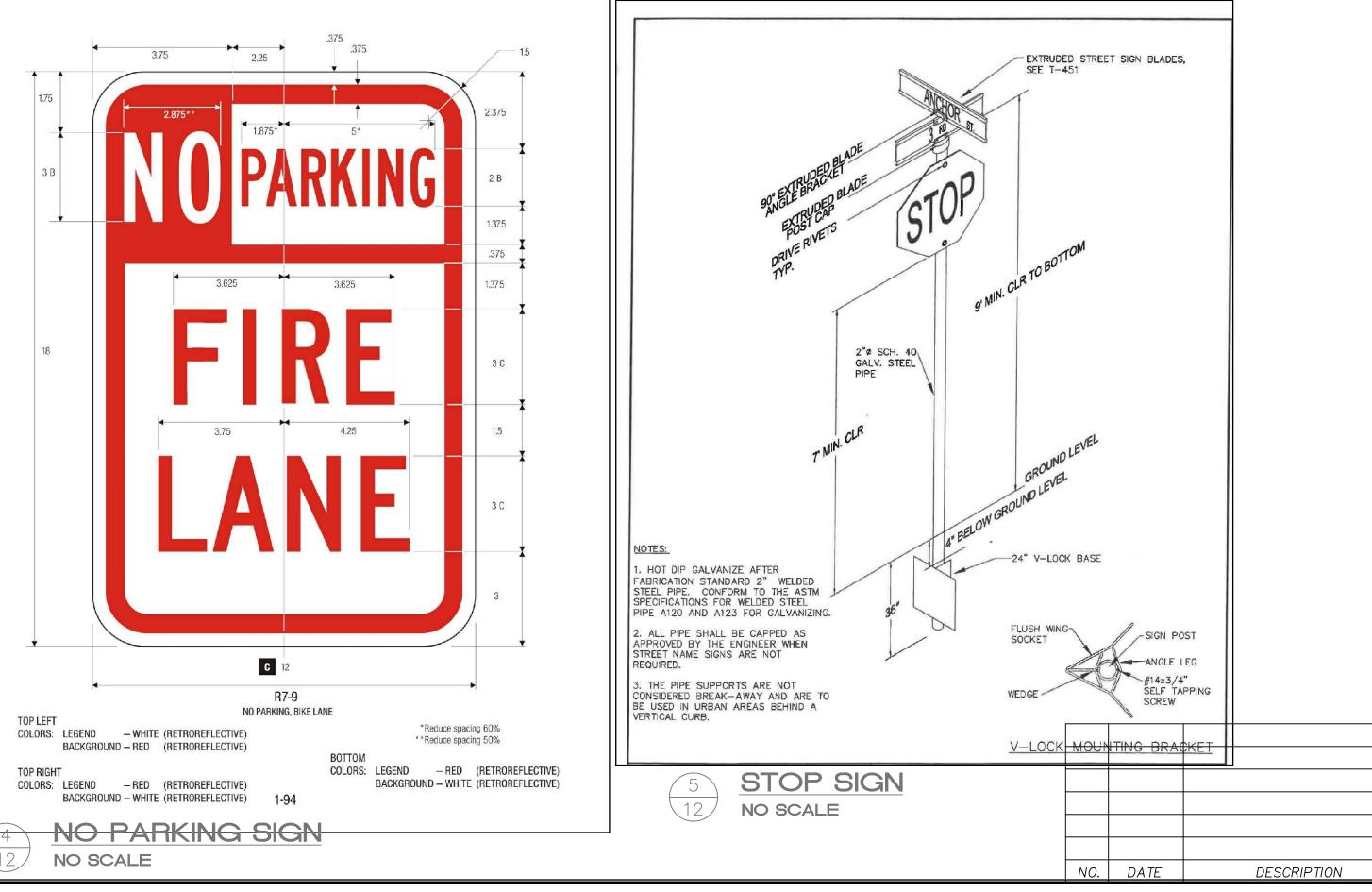
GENERAL NOTES FOR ALL DETAILS ON THIS SHEET:

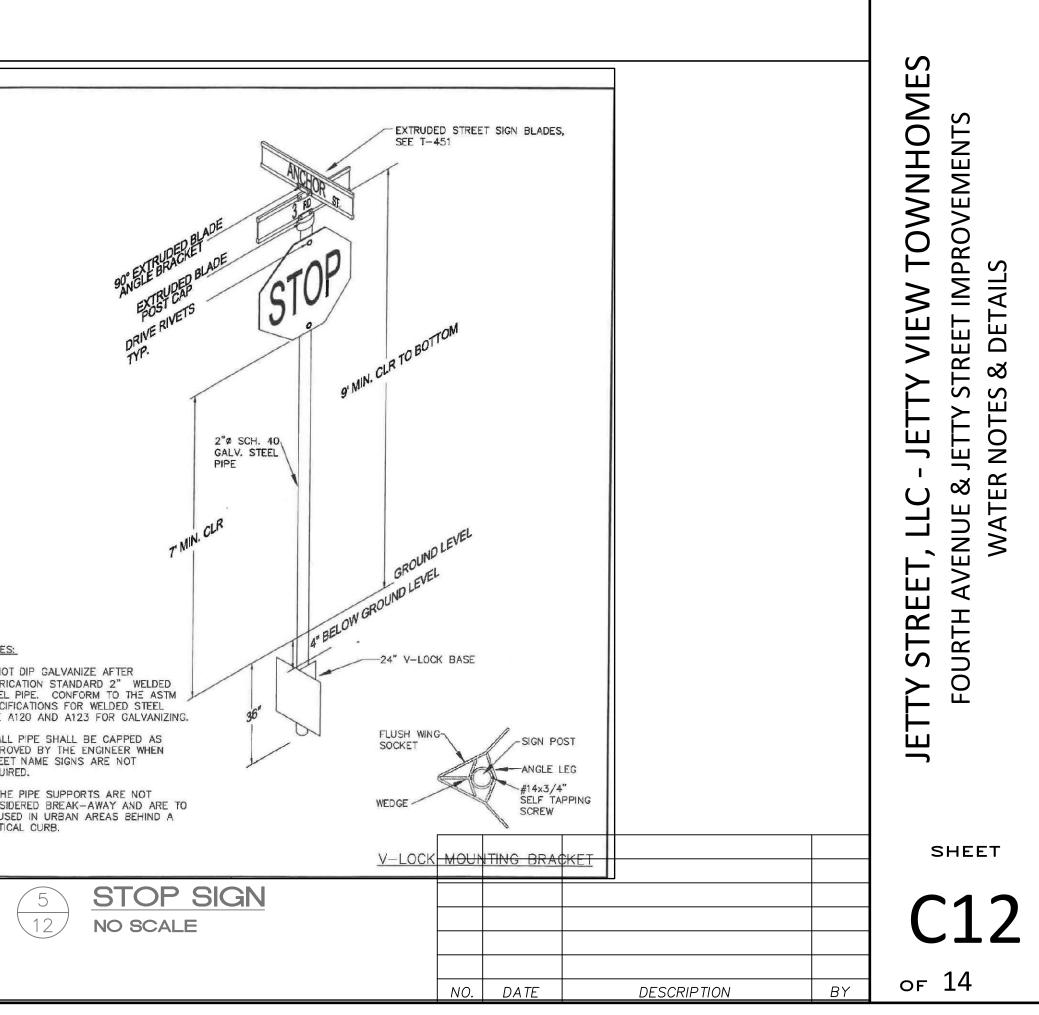
1. When pipe is shorter than 18', no joints allowed. Use mechanical joint retainer glands. Two ¾" galvanized tie rods may be used in lieu of thrust blocks for installations

**VALVE BOX EXTENSION SECTION** 

- less than 18' long. Coat tie rods with two coats of coal tar epoxy. 2. When pipe is longer that 18' retainer glands not required.
- 3. There shall be a minimum of 18" horizontal clearance around hydrant.
- 4. When placed adjacent to curb, hydrant port shall be 24" from face of
- 5. Concrete thrust blocks shall be constructed as per thrust blocking Std. Dwg. RD250. Do not block drain holes.
- 6. Extensions required for hydrant systems shall be installed to the manufacturer's specifications.
- 7. Hydrants shall be placed to provide a minimum of 5' clearance from driveways, poles, and other
- 8. Hydrant pumper port shall face direction of access.
- 9. Set hydrant plumb in all directions.
- 10. See project plans for details not shown.



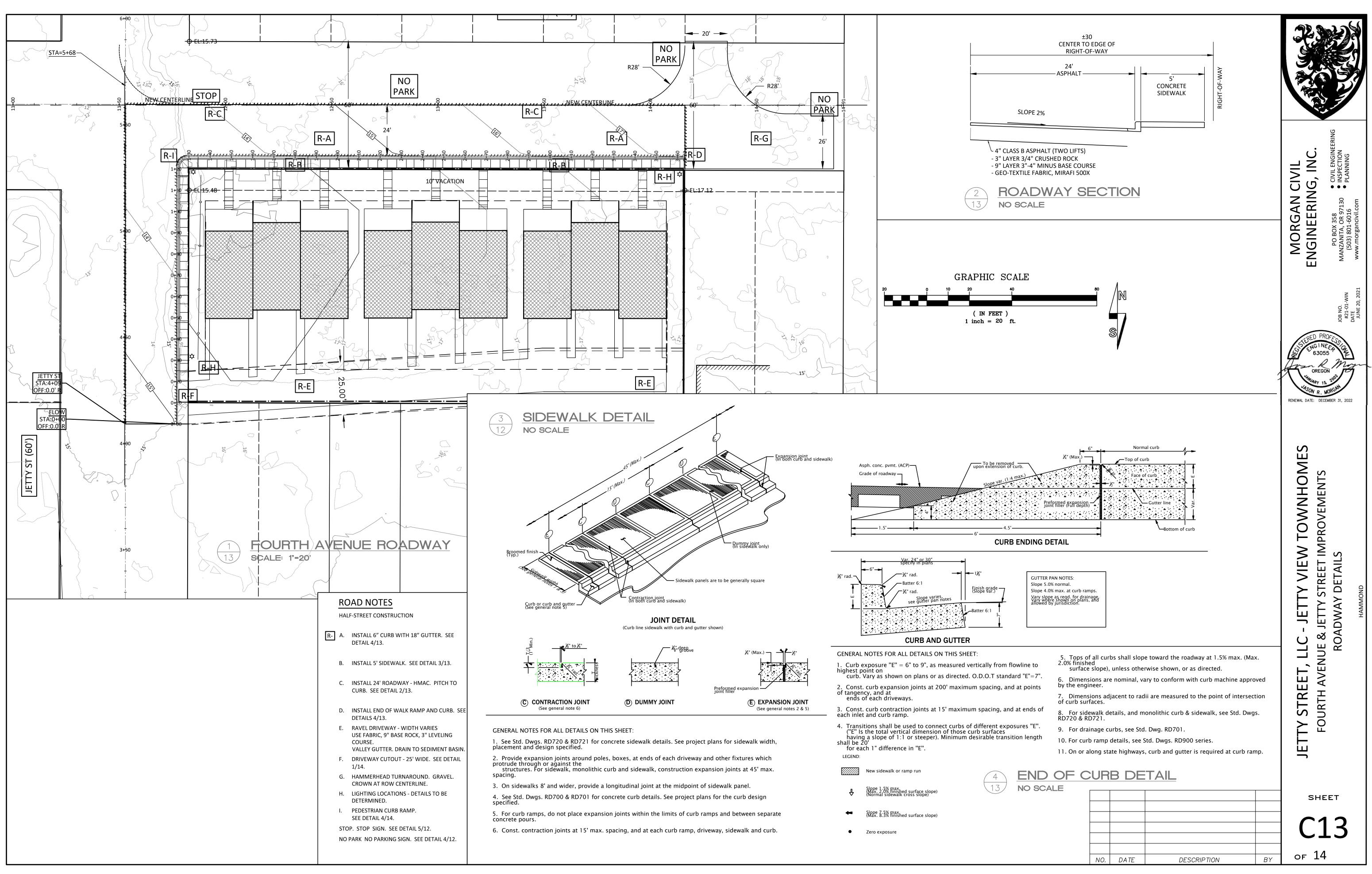


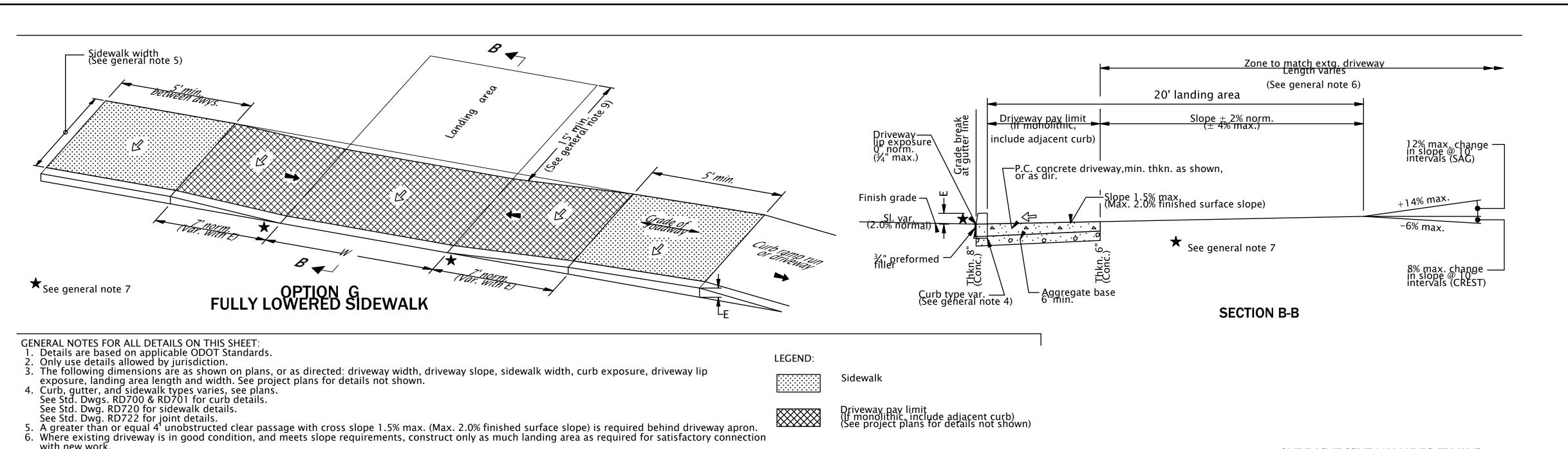


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MORGAN CIVIL ENGINEERING, INC





OR ALLEYS (OPTIONS F & G)ODOT HIGHWAYS

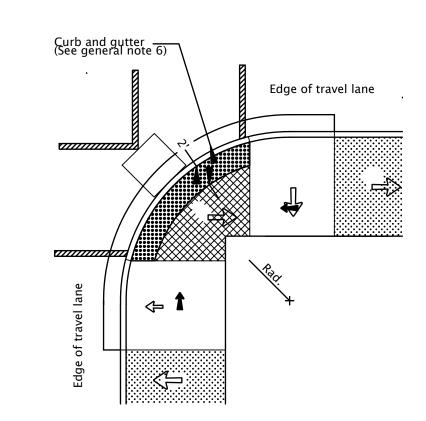
SIDEWALK/CURB DETAIL

 $\sqrt{14}$ 

NO SCALE

DRIVEWAY DETAIL (14) NO SCALE

RD735



Check the gutter flow depth at driveway locations to assure that the design flood does not overtop the back of sidewalk at driveway. If overtopping occurs place an inlet at upstream side of driveway or perform other approved design mitigation.
 Construct a full deph expansion joints with 1#2" (In) preformed joint filler at ends of each driveway. Tooled joints are required at all driveway slope break lines.

9. 15' min. of the driveway behind the sidewalk should be surfaced to prevent tracking of gravel onto the sidewalk.

10. Monolithic curb & sidewalk shall retain thickened edge through lowered profile, to accommodate driveway use. See Std. Dwg. RD720 for details.

DEPRESSED CURB RAMP SMALL RADIUS OPTION "PL-4"

(Use only when site constraints prohibit installing two curb ramps)





- 1. Curb ramp details are based on applicable ODOT Standards.
- 2. See project plans for details not shown.
- See Std. Dwgs. RD700 & RD701 for curbs.
  See Std. Dwgs. RD720 & RD721 for sidewalks.
  See Std. Dwgs. RD902 through RD908 for detectable warning surface installation details. See Std. Dwg. RD920 for parallel curb ramp details.

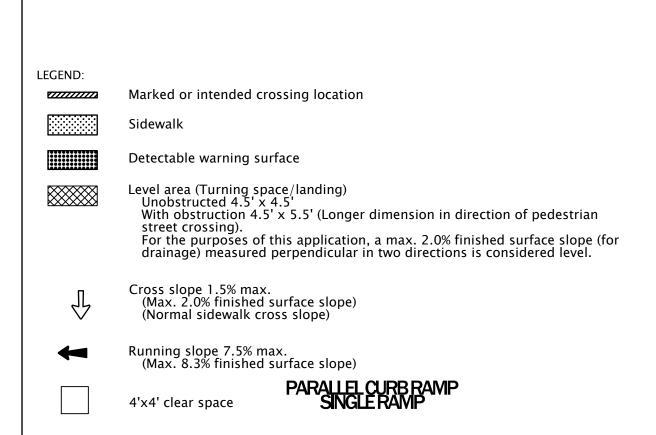
Cross slope 1.5% max. (Max. 2.0% finished surface slope) (Normal sidewalk cross slope)

Running slope 7,5% max. (Max. 8.3% finished surface slope)

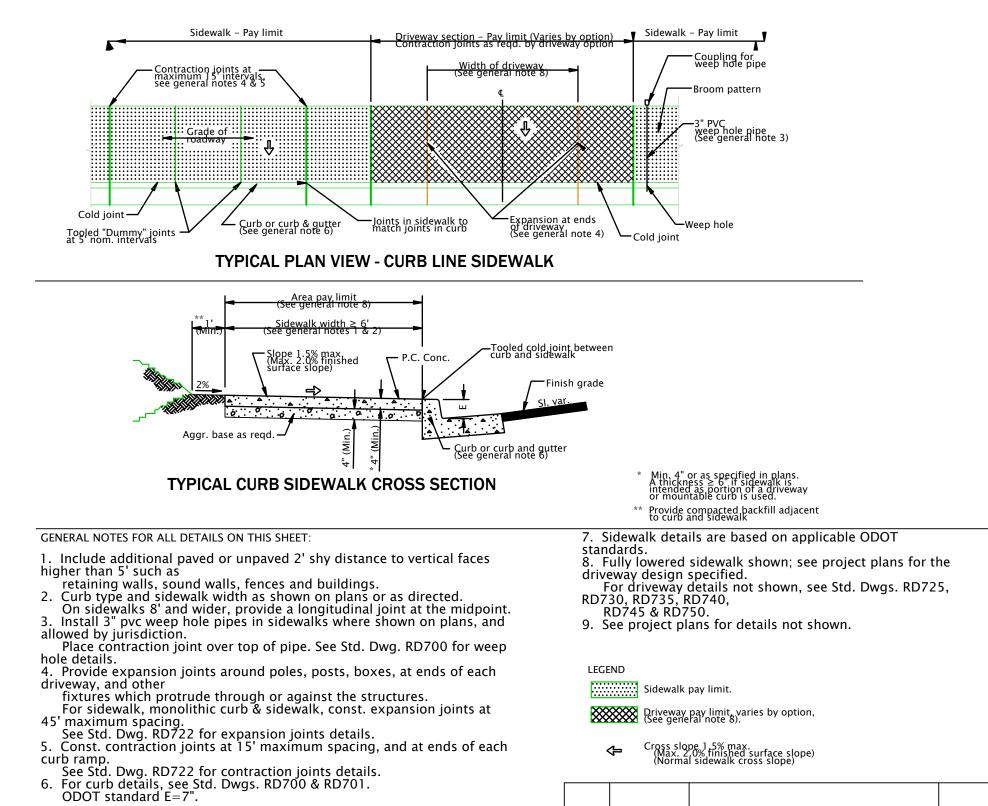
Width of driveway

Curb exposure

- 3. Tooled dummy joints are required at all curb ramp slope break lines, (see Std. Dwg. RD722).
- Curb ramp slopes shown are relative to the true level horizon (zero bubble).
- 5. Place an inlet at upstream side of curb ramp or perform other approved design mitigation. Check the gutter flow depth at curb ramp locations to assure that the design flood does not overtop the back of sidewalk.
- 6. On or along state highways, curb and gutter is required at curb ramps.
- . Grade breaks at the top and bottom of curb ramp runs shall be perpendicular to the direction of the ramp run. Grade breaks shall not be permitted on the surface of ramp runs and turning spaces. Surface slopes that meet at grade breaks shall be flush.
- . Only use curb ramp options allowed by jurisdiction. Single ramps require design exceptions on or along state highways.



07-2020 DRAWING CREATED



NO. DATE

DESCRIPTION

INC.

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CIVIL





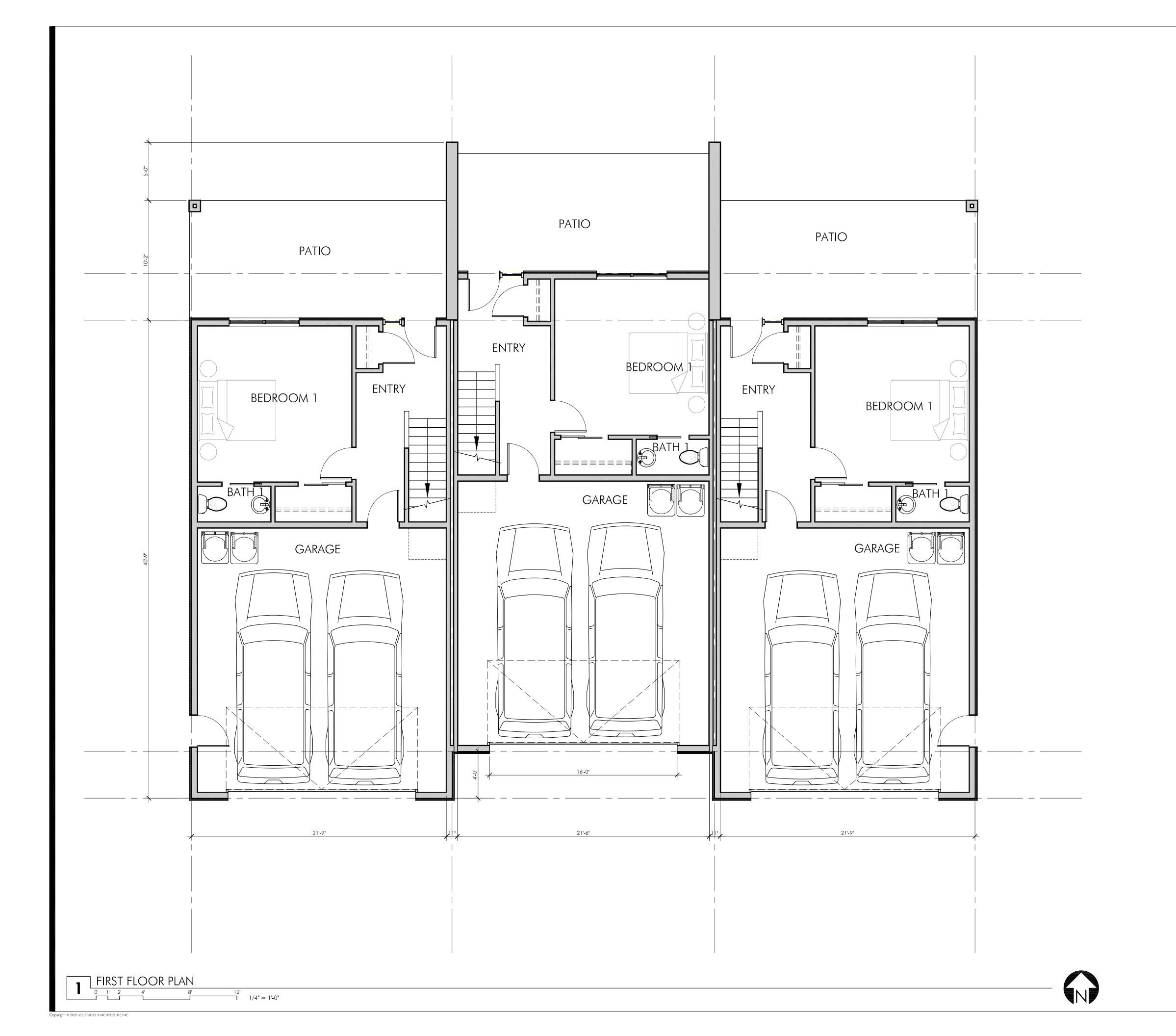
IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2020-190 DATE: 17 JUNE 2021 REVISIONS

REVISIONS

SHEET

**A1.1** 



ARCHITECTURE
INCORPORATED

275 COURT ST. NE
SALEM, OR 97301
503.390.6500
www.studio3architecture.com

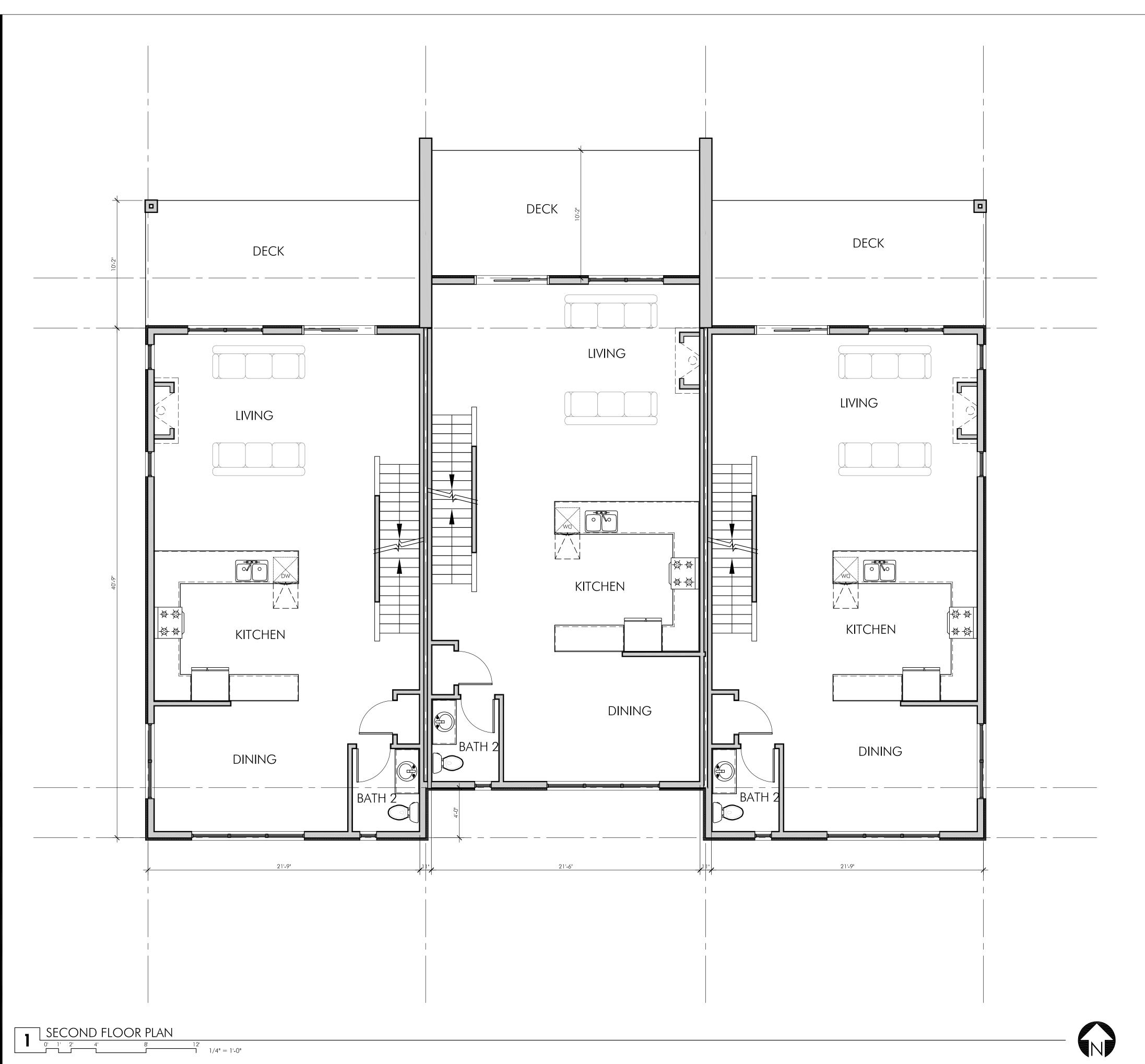
IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2020-190 DATE: 17 JUNE 2021 REVISIONS

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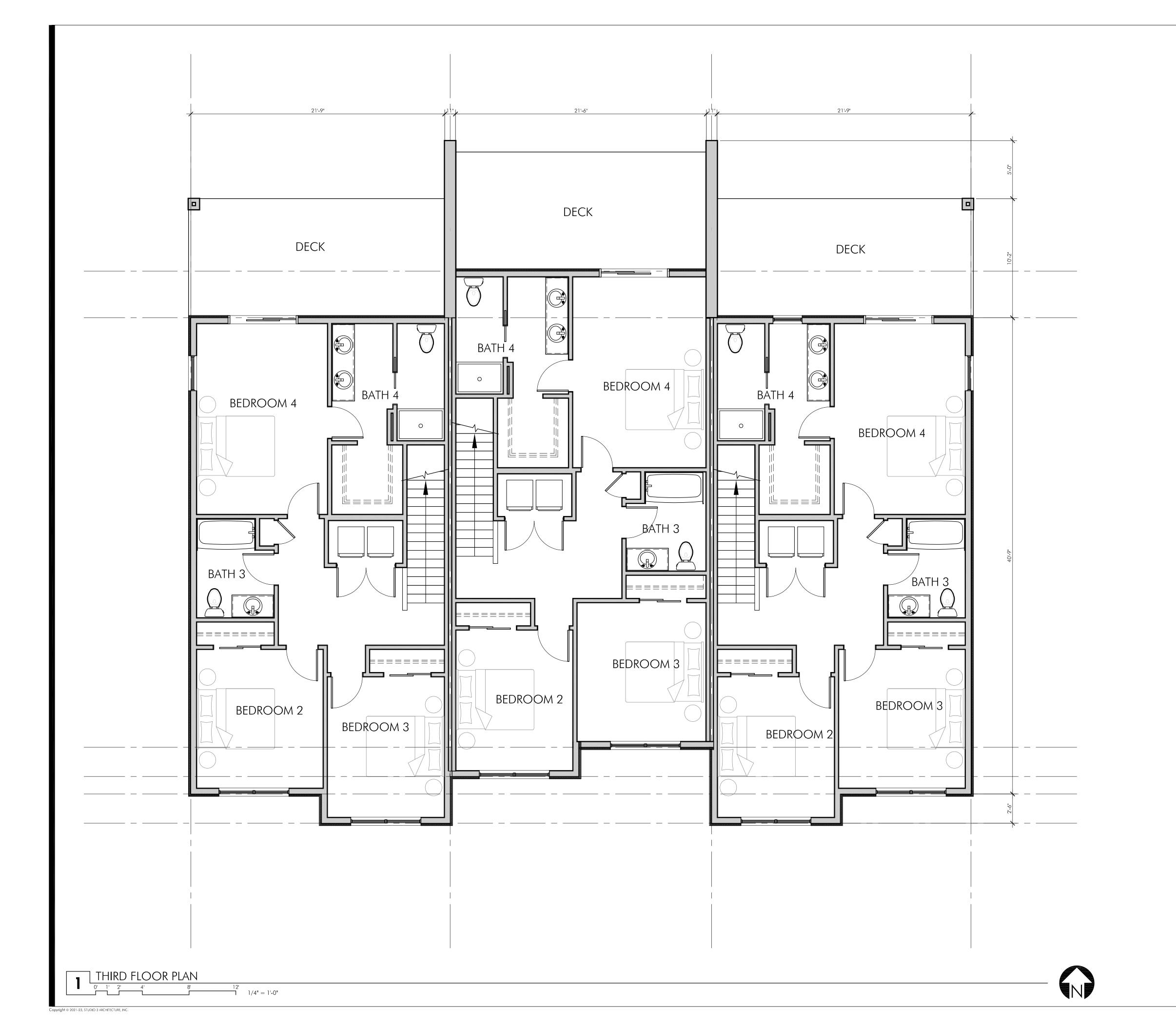
STUDIO ARCHITECTURE INCORPORATED 275 COURT ST. NE SALEM, OR 97301 503.390.6500 www.studio3architecture.com

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PROJECT # 2020-190

DATE: 17 JUNE 2021 REVISIONS

SHEET



ARCHITECTURE
INCORPORATED

275 COURT ST. NE
SALEM, OR 97301
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PROJECT # 2020-190
DATE: 17 JUNE 2021
REVISIONS

**17 4** 

SHEET

**A2.4** 



Recording Instrument #:

Recorded By: Clatsop County Clerk

of Pages: 4 Fee:

41.00

200503426

Transaction date: Deputy: tromeyn 3/24/2005 14:42:05

After recording return to: SNOW & SNOW ATTORNEYS P.O. Box 508 Astoria, OR 97103

Tax Acct #: Portions of 3004 81005CD 003500; 003700; 003800

## EASEMENT AND EASEMENT MAINTENANCE AGREEMENT

AN AGREEMENT, made and entered into this \_\_\_\_\_ day of March 2005, by KELLY INVESTMENTS, LTD., an Oregon Corporation, hereinafter referred to as "Declarant."

## WITNESSETH:

WHEREAS, Declarant is the owner of certain real property, hereinafter referred to as "the Property," more particularly described as Lots 3 through 14, Block 9, First Addition to Kindred Park, in the City of Hammond, County of Clatsop, State of Oregon.

WHEREAS, Declarant intends to provide for a twenty-five foot (25') perpetual easement, being a part of Block 9, First Addition to Kindred Park, in the City of Hammond, County of Clatsop, State of Oregon, hereinafter referred to as "the Easement," and as shown on Exhibit A attached hereto, for the purposes of ingress, egress, and construction and maintenance of utilities over, across, and through the following described tract of land: Beginning at the northwest corner of Lot 10, Block 9, First Addition to Kindred Park, Clatsop County, Oregon; thence south along the west boundary of Lot 10 a distance of 10.00 feet; thence N86°34'E 166.97 feet to the southwest corner of Lot 4, Block 9; thence east 66.67 feet to the southeast corner of Lot 3, Block 9; thence north along the east boundary of Lot 3 a distance of 25.00 feet; thence west 66.67 feet to the west boundary of Lot 4; thence S86°34'W 166.97 feet to the west boundary of Lot 9, Block 9; thence south along the west boundary of Lot 9 a distance of 15 feet to the point of beginning.

WHEREAS, the Easement will serve as a common roadway and a utility right of way for the benefit of Lots 3 through 14, Block 9, First Addition to Kindred Park, in the City of Hammond, County of Clatsop, State of Oregon.

WHEREAS, Declarant intends to develop and in the future possibly sell certain portions of the Property, it therefore wishes to reserve an easement over the Property for the benefit of the Lots 3 through 14, Block 9 and any future owners, successors, heirs and assigns.

WHEREAS, Declarant is desirous of insuring that the Easement is adequately maintained and it is to its benefit and the benefit of the future owners, successors, heirs and assigns of the Property that it be so maintained.

NOW, THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES, COVENANTS AND CONDITIONS CONTAINED HEREIN, it is agreed as follows:

- 1. <u>Use</u>. The Easement may be used for vehicular and pedestrian access and for a utility right of way for the installation, construction, maintenance and repair of a roadway and for utilities to the Property. Use of the Easement shall be on a regular, continuous, non-exclusive, non-priority basis, benefitting the Declarant and subsequent owners of the Property, their heirs, successors, assigns, lessees, mortgagees, grantees, invitees, guests, customers, agents and employees.
- 2. <u>Maintenance</u>. Declarant agrees that the road on the easement shall be maintained to applicable road standards, if any. In the event that any of the Property is conveyed, transferred or developed, Declarant declares that the owners of any of the Property, including those subsequently conveyed, transferred or developed, shall share equally in the costs of maintaining the Easement.
- 3. <u>Improvements</u>. In the event the owners of the Property agree to improve the Easement, payment of any costs for the improvement will be mutually agreed upon by the parties at that time.
- 4. <u>Indemnification</u>. Each party will defend, indemnify and hold harmless the other parties and any heirs, successors, assigns, lessees, mortgagees, grantees, lessees, invitees, guests, customers, agents and employees thereto, as to any property adjacent to or accessed by the easement from any claim, loss or liability arising out of or in any way connected with each party's exercise of their rights under this Agreement.
- 5. <u>Successors</u>. This Easement and Easement Maintenance Agreement shall be binding on the Declarant and any subsequent owners of the Property. It shall run with the land and shall benefit and bind the Declarant and any subsequent owners, their heirs, successors, assigns, lessees, mortgagees, grantees, lessees, invitees, guests, customers, agents and employees.
- 6. Attorney Fees. In the event suit or action is instituted to enforce any of the terms of this agreement, the prevailing party shall be entitled to recover from the other party such sum as the court may adjudge reasonable as attorney's fees at trial or on appeal of such suit or action, in addition to all other sums provided by law.

IN WITNESS WHEREOF, the parties have executed this Agreement the day and year first above written.

KELLY INVESTMENTS, LTD.,

By:

P.T. KELLY, President

NADINE KELLY, Secretary

STATE OF OREGON		)
		) ss.
County of Clatsop	1	)

This instrument was acknowledged before me on March <u>24</u>, 2005, by P.T. KELLY, as President of KELLY INVESTMENTS, LTD.



Melisso Fadett Notary Public for Oregon

STATE OF OREGON	)
	) ss
County of Clatsop	)

This instrument was acknowledged before me on March 24, 2005, by NADINE KELLY, as Secretary of KELLY INVESTMENTS, LTD.

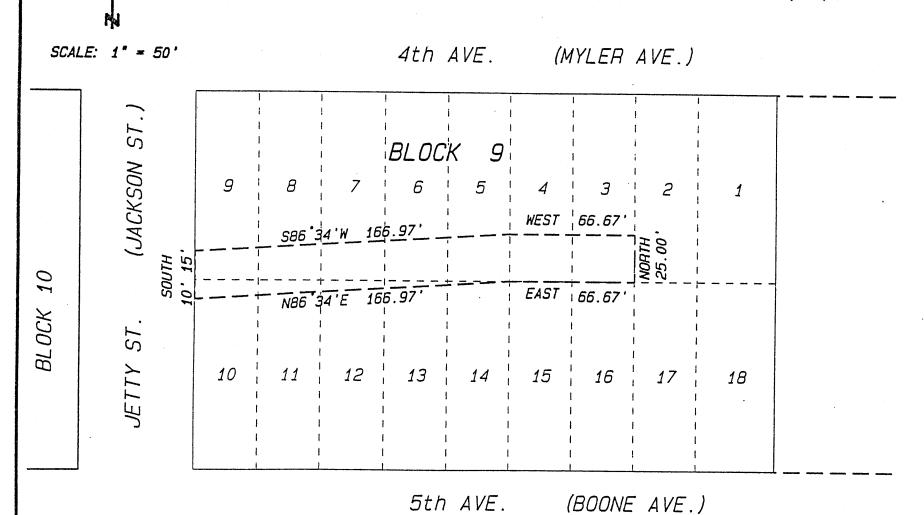


Melissa Hadelt Notary Public for Oregon

# EXHIBIT SHOWING LOCATION OF PROPOSED 25 FOOT WIDE EASEMENT IN BLOCK 9, FIRST ADDITION TO KINDRED PARK CLATSOP COUNTY, OREGON

FOR: P.T. KELLY

DATE: 9/30/04



April 22, 2021

Jordan Winters Sante Development LLC

Request: 6954109 444 SE Jetty Ave, Hammond

Dear Mr. Winters,

We at Pacific Power are pleased to hear about your plans to build a home at or near 444 SE Jetty Ave, Hammond, Oregon.

This property is within Pacific Powers Service Area and we will be able to provide permanent service under our usual guidelines as filed with the P.U.C. here in Oregon. For temporary service you will need to supply your own meter pedestal/pole and we will bill you for a temporary service connection of \$164.00 on your first billing.

Our Estimator has your request to provide estimate for development of 9 townhomes with underground service. When it has been approved, we will email you the contract and advance amount that needs to be paid before we can schedule the installation of your permanent underground service.

The customer will provide at your expense: all trenching, backfilling, conduit, vaults and any other requirements to complete the construction for underground service.

Sincerely,



Journeyman Estimator 503-861-6005 503-338-8386 mobile



#### January 5, 2021

To: Jordan Winters, Mark Hansen, Gene Bolante

From: Scott Hess, Community Development Director, City of Warrenton

Copy: Van Wilfinger, Building Official; Colin Stelzig, Public Works Director; Brian Alsbury, Fire Chief

Re: December 16, 2020 Pre-application meeting

This memo outlines information identified during out preapplication meeting with you on Wednesday, December 16, 2020. You can use this memo as a checklist to help assure that your application is complete when submitted. Our comments are based on the discussion on December 16, 2020, and on a preliminary Site Plan provided by you via email on December 11, 2020.

The project is located 444 Jetty Street Tax Lot 81005CD03500. It is our understanding that the proposal is a residential development of approximately 9-10 units of townhomes that would be individually sold and privately owned. The subject property is zoned Commercial Mixed Use (CMU). The residential density and design standards are the same as the High Density Residential (RH) District. Maximum density for multifamily is one unit per 1,600 square feet of site area.

This project is considered a subdivision pursuant to WMC Chapter 16.216 and will require site design review per WMC 212.040. The application will be reviewed via a Type 3 process with a public hearing before the Planning Commission and notice described in WMC 16.208.050. The Community & Economic Development Department performance review time for a Type 3 application from "completeness" to "notice of decision" is 6-8 weeks. Application requirements are listed in WMC 16.216 & 16.220.

A site plan shall have calculations for building area (lots), landscaped area, and parking to streamline the review process. Provide calculations for lot size averaging if lots are below the minimum standard. A vicinity map shall be included with adjacent properties as well as an aerial map with contours to identify grade between properties.

#### **Planning/Zoning Comments:**

- Warrenton Municipal Code 16.208.050 Type III Applications provides details needed to satisfy the public notice hearing posting and elements required leading up to Planning Commission <a href="https://qcode.us/codes/warrenton/view.php?topic=16-4-16">https://qcode.us/codes/warrenton/view.php?topic=16-4-16</a> 208-16 208 050&frames=off
- WMC 16.121.020 establishes standards for Site Design review applicability. Residential developments 10 units and greater require a Type III review with public notice required per Chapter 16.208.040.

https://qcode.us/codes/warrenton/view.php?topic=16-4-16 208-16 208 040&frames=on

- 3. WMC 16.212.040 explains Site Design elements. https://qcode.us/codes/warrenton/view.php?topic=16-4-16 212-16 212 040&frames=on
- 4. WMC 16.216.040 Preliminary Plat Submission Requirements provides guidance on the Preliminary Plat that will be required to subdivide the property into individually sellable condo or townhome lots.
  <a href="https://qcode.us/codes/warrenton/view.php?topic=16-4-16\_216-16\_216\_040&frames=off">https://qcode.us/codes/warrenton/view.php?topic=16-4-16\_216-16\_216\_040&frames=off</a>
- 5. Planning has addressed a number of specific questions relating to zoning, lot sizes, access, and improvements in an email on 11/30/2020.
- 6. Development Standards for CMU match the RH Zone found at: https://qcode.us/codes/warrenton/view.php?topic=16-2-16 36-16 36 040&frames=off
- 7. The applicant has requested information on the Street Vacation process. That information can be found at:

  <a href="https://www.ci.warrenton.or.us/sites/default/files/fileattachments/building/planning/page/86/street.vacation.packet2.pdf">https://www.ci.warrenton.or.us/sites/default/files/fileattachments/building/planning/page/86/street.vacation.packet2.pdf</a>

### **Building Department Comments:**

- 1. The plans, as provided, are conceptual in nature and contain insufficient information to provide comprehensive Building Department comments at this time.
- Please see attachment for minimum Residential Submittal documentation that will be required once all required approvals have been obtained from the Planning, Public Works, and Fire Departments.

### **Public Works Comments:**

Public Works understands that a subdivision is proposed on Tax Lot 81005CD03500. With this information, staff at public works has provided the following items that will need to be addressed in your design and planning documents:

- The developer is required to follow the City of Warrenton Development Standards. These standards can be found in Title 16 of the Warrenton Municipal Code. Please provide documentation showing how this development will meet that standards set forth in the development code. Below is a link to the Development Code <a href="http://qcode.us/codes/warrenton/view.php?topic=16&frames=on">http://qcode.us/codes/warrenton/view.php?topic=16&frames=on</a>
- The developer must follow the City's Water and Sewer Regulations. These regulations are included under Title 13 of the Warrenton Municipal Code. Please provide documentation showing how this development will meet that standards set forth in the development code. Below is a link to the Title 13 of our Code: <a href="http://qcode.us/codes/warrenton/view.php?topic=13&frames=on">http://qcode.us/codes/warrenton/view.php?topic=13&frames=on</a>
- 3. The developer is required to follow the Engineering Standards & Design Criteria Manual. Please provide documentation showing how the development meets the standards set forth in this manual. This manual can be found at the

- 4. Half street improvements, a minimum of 24 feet, are required on Jetty Street
- 5. Half Street improvements, a minimum of 24 feet, are required on Fourth Avenue. If instead a private road is proposed in the shared easement, the roadway shall meet City street standards with a minimum width of 36 feet and sidewalks on both sides.
- 6. Drainage at the intersection Fourth Avenue and Jetty Street will need to be addressed with the road design work.
- 7. Water and service connections will be installed by the developer.
- 8. Sidewalks are required on both Jetty Street and Fourth Avenue and shall be a minimum of 5 feet wide and shall meet ODOT standards.
- 9. Street lights are required for all new developments. Show proposed street light locations and submit plan to Pacific Power & Light for circuit design.
- 10. Please work with the Fire Chief to determine appropriate Fire hydrant spacing for this development. Developers team is responsible for determining if fire flows are available at this location. This can include hydrant testing and/or water modeling.
- 11. All on-site driveways, parking areas, aisles and turn-a-rounds shall have on-site collection or infiltration of surface waters to eliminate sheet flow of such waters onto public rights-of-way and abutting property. Surface water facility plans shall be prepared by a qualified engineer and constructed in accordance with City standards. Stormwater report shall detail pre and post stormwater conditions, including the adjacent ROWs and flows from existing storm system.
- 12. The City has design standards for refuse enclosures that include the required turning radius and access standard.
- 13. New sewer and water mains will be required as part of this development.
- 14. Connections to existing watermain shall include three valves.
- 15. Watermains shall be a minimum of 8".

### **Questions from The Applicant:**

Any offsite improvements required?

Street and Utility improvements will be required as part of this subdivision. Developer/Owner will confirm the availability of sufficient utilities the site. The City is aware that the stormwater systems in the vicinity are non-existent and will need to be provided as part of this development. In addition, the water system adjacent to this development may not be adequate to provide the necessary fire flows.

What would phasing the project (likely three phases for three structures) look like?

All utility infrastructure will be installed at the onset of the project. Jetty Street improvements will be necessary, Fourth Avenue will be improved to limits of construction with a turnaround for fire and garbage vehicles.

We assume we can defer certain site improvements that may be required as if the site was fully improved to the second and third phases if we go that route. Please confirm.

All utility infrastructure will be installed at the onset of the project. Jetty Street improvements will be necessary, Fourth Avenue will be improved to limits of construction with a turnaround for fire and garbage vehicles.

#### **Fire Department Comments:**

#### **ACCESS:**

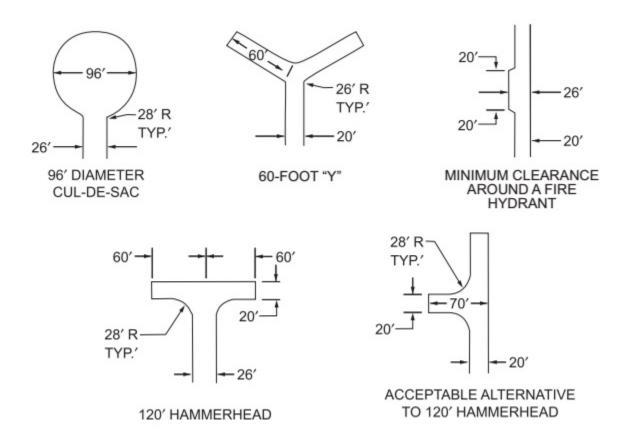
The proposed access road (shared access easement) is shown as a dead-end, Oregon Fire Code, table **D103.1** shows that any dead-end road that will be used for fire access will need to have a 120-foot hammerhead, 60 foot "Y" or a 96-foot cul-de-sac in accordance with figure **D103.1** (see 2<sup>nd</sup> page).

#### **WATER SUPPLY:**

There is no available hydrant within the required 250 feet of furthest lot (Building C). Fire Department is requesting that a hydrant be installed at the SE corner of Jetty St and Shared Access Easement. Oregon Fire Code **D103.4** 

## **ADDRESS:**

Home will be required to have address number visible from the street with opposing/contrasting number. i.e. black numbers with white background.



#### REQUIREMENTS FOR DEAD-END

LENGTH	WIDTH	I TURNAROUNDS REQUIRED
(feet)	(feet)	TORNAROUNDS REQUIRED
0-150	20	None required
151-500	20	120-foot Hammerhead, 60-foot "Y" or 96-foot diameter cul-de-sac in accordance with Figure D103.1

#### **Estimated Permit Fees & SDCs**

Grading permits and engineering design are reviewed by a third-party consultant and requires a deposit and direct charge for services. This will be calculated at the time of submittal.

Site Design Review: \$ 750

Preliminary Subdivision Plat: \$ 750 + \$30 / lot + actual costs of engineering review

The City will collect systems development charges when building permits are issued. Below is an estimate based on the submitted plan set:

SDC	Cos	st	Factor		Dwelling Unit	
Water Meter	\$	3,296.00	2 x 1" meters		\$	6,592.00
Wastewater	\$	3,294.00	2 x 1" meters		\$	6,588.00
Storm Water	\$	157.00		12	\$	1,884.00
Transportation						
Per PHPT	\$	527.22		12	\$	6,326.64
Parks	\$	599.00		12	\$	7,188.00
			TOTAL		\$	28,578.64

Final SDCs will be calculated per approved plans at building permit issuance.

## Please use this letter as a checklist for your land use submittal.

If you have any questions about the requirements or any City related issues, please contact Scott Hess at <a href="mailto:shess@ci.warrenton.or.us">shess@ci.warrenton.or.us</a> or 503-861-0920.



250 SW Taylor Street Portland, OR 97204 503-226-4211 nwnatural.com

Month, Date Year Project Name Address, City, State, Zip Attn: Jordan Winters

Dear: Jordan,

This information is furnished in response to your request for a commitment for natural gas service to the proposed project located at tax lot 81005CD03500. Northwest Natural Gas (Company) will provide natural gas service for normal commercial/residential use in the above described site and such service will be available at the lot line at or prior to the time of sale or lease thereof.

Northwest Natural Gas Company operates under the jurisdiction and subject to the Rules and Regulations of the Public Utility Commissioner (PUC) of Oregon. Service is provided pursuant to the Tariff (rates, rules and regulations) of the Company on file with the PUC. Such Tariff is subject to change as provided by law. The Company installs, owns and maintains all facilities up to and including the meter pursuant to the provisions of such Tariff. Facilities beyond the meter are the responsibility of the builder or owner.

Copies of its rates, rules and regulations and additional information may be obtained by contacting the Company.

Respectfully,

Teresa Brownlie NW Natural

Office: 503-741-0145 Fax: 503-325-4253

Email: tma@nwnatural.com



#### REVISED NOTICE OF PUBLIC HEARING

The Warrenton Planning Commission will conduct a public hearing at 6:00 PM, August 12, 2021, at the Warrenton City Hall Commission Chambers to consider the following requests:

SUB 21-1/SDR-21-1, a consolidated request by Jetty Street, LLC to develop a 9-unit subdivision consisting of three standalone townhome structures containing three single-family dwelling units each at 444 Jetty Street, Tax Lot 81005CD03500, in the Commercial-Mixed Use (C-MU) Zone. Applicable criteria and standards specific to this request are contained in Warrenton Municipal Code (WMC) Chapters 16.44 Commercial-Mixed Use (C-MU) District, 16.116 Design Standards, 16.184 Single-Family Attached, Duplex, and Triplex Design Standards, and 16.216 Land Divisions and Lot Line Adjustments. The request is also subject to the criteria and standards listed below that apply to all three requests.

SDR 21-2, a site design review of a request by Kyle Langeliers on behalf of property owner Warrenton Property Investments, LLC to construct a new 27,550 sq. ft. building and associated site improvements for a new furniture store on an adjusted portion of Tax Lot 81027AB06400 in the General Commercial (C-1) Zone. Applicable criteria and standards specific to this request are contained in WMC Chapters 16.40 General Commercial (C-1) District, 16.156 Wetland and Riparian Corridor Development Standards, 16.88 Flood Hazard Overlay (FHO) District, and 16.192 Large Scale Developments. The request is also subject to the criteria and standards listed below that apply to all three requests.

SDR 21-3, a site design review of a request by Greta Holmstrom/Ardor Consulting LLC on behalf of property owner Fuiten West Partnership to construct a new 13,607 sq. ft. building and associated site improvements for the existing Medix ambulance dispatch facility at 2325 SE Dolphin Avenue, Tax Lot 81033AA01100, in the General Industrial (I1) Zone. Applicable criteria and standards specific to this request are contained in WMC Chapters 16.60 General Industrial (I1) Zone, and 16.192 Large Scale Developments. The request is also subject to the criteria and standards listed below that apply to all three requests.

These requests are also subject to the criteria and standards contained in WMC Chapters 16.116 Design Standards, 16.120 Access and Circulation, 16.124 Landscaping, Street Trees, Fences, and Walls, 16.128 Vehicle and Bicycle Parking, 16.136 Public Facilities Standards, 16.140 Stormwater and Surface Water Management, 16.144 Signs, 16.152 Grading, Excavating, and Erosion Control Plans, 16.208 Types of Applications and Review Procedures, and 16.212 Site Design Review.

Those wishing to testify on any of these proposals may attend the public hearing and sign a card to speak to the Planning Commission, or submit written materials, which must be received by the Warrenton Community and Economic Development Department no later than 4:00 P.M. on the day of the hearing. Written comments may be mailed to Rebecca Sprengeler, Deputy City Recorder, P.O. Box 250, Warrenton Oregon, 97146-0250; or emailed to Will Caplinger, Interim City Planner, at <a href="mailto:cityplanner@ci.warrenton.or.us">cityplanner@ci.warrenton.or.us</a>. At the public hearing, the Planning Commission chairperson will open the public hearing and describe the general conduct and procedure for providing public comment. A staff report will be given, followed by a statement from the applicant, followed by public testimony, discussion among the commissioners, and a decision on, or a continuation of, the request.

Failure to raise an issue in person, or by or by letter at the hearing, or failure to provide statements of evidence sufficient to afford the decision makers an opportunity to respond to the issue, means that an appeal based on that issue cannot be filed with the State Land Use Board of Appeals.

A copy of the application, all documents and evidence submitted by or for the applicant, and the applicable criteria and standards can be reviewed at Warrenton City Hall at no cost and copies shall be provided at a reasonable cost. A copy of the City's staff report and recommendation to the hearing body shall be available for review at least seven days before the hearing, and a copy shall be provided at a reasonable cost.

Anyone wishing to review and/or purchase copies of the proposals and/or staff report may do so at Warrenton City Hall, 225 South Main, or may contact Rebecca Sprengeler at 503-861-0823 or via email at <a href="mailto:rsprengeler@ci.warrenton.or.us">rsprengeler@ci.warrenton.or.us</a>.

Mailed July 29, 2021

#### NOTICE OF PUBLIC HEARING

The Warrenton Planning Commission will conduct a public hearing at 6:00 PM, August 12, 2021, at the Warrenton City Hall Commission Chambers to consider the following requests:

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Published July 31, 2021



August 5, 2021

Will Caplinger City Planner, Interim City of Warrenton 225 S Main Ave Warrenton, OR 97146

RE: Jetty View Townhomes - Preliminary Plat Submission (WMC 16.216.040)

Dear Mr. Caplinger,

The planning review submittal package has been provided to City of Warrenton Public Works. The drawing set and Pre-App Meeting notes have been reviewed. This letter summarizes our review comments of the information provided, by Morgan Civil Engineering, Inc, dated June 30, 2021. The site is located at the South East corner of Fourth Avenue and Jetty Street.

As submitted, the development consists of a 9-lot subdivision with street and utility improvements on Fourth Avenue and Jetty Street.

The submitted information has been reviewed for compliance with the City of Warrenton Municipal Code Site Design Review, Section 16.216.040 and additional referenced sections.

This is not a review of the engineering plans or construction details currently provided in the application documentation, but is a review of applicable code related to preliminary plat approval. Engineer review will take place after planning commission approves the development and once engineering plans have submitted to the City for review and comments.

#### **General Notes:**

- Construction Documents shall meet all requirements of federal, state, and local standards, codes, ordinances, guidelines and/or other legal requirements.
- The developer is required to follow the City of Warrenton Development Standards. These standards can be found in Title 16 of the Warrenton Municipal Code. Please provide documentation showing how this development will meet the standards set forth in the development code.
- The developer must follow the City's Water and Sewer Regulations. These regulations are included under Title 13 of the Warrenton Municipal Code.
- The developer is required to follow the Engineering Standards & Design Criteria Manual. Please provide documentation showing how the development meets the standards set forth in this manual.
- Grading and Erosion Control activities shall adhere to the requirements of the Approved Oregon Department of Environmental Quality General Permit for Stormwater Discharge, 1200-C when applicable.
- Grading activities shall adhere to the recommendations provided in the project final Geotechnical report when applicable.

#### **Comments:**

- 1. Design plans shall include topographic information collected from field survey work.
- 2. Provide water model showing adequate fire flows at fire hydrant locations.
- 3. Provide stormwater report and calculations for new stormwater systems and capacity of existing stormwater system. This includes offsite stormwater systems associated with this development.
- 4. Current stormwater design appears to go under the existing marina restroom facility. Provide letter from Hammond Marina acknowledging approval of stormwater alignment and design.
- 5. Extend sidewalk beyond shared access.
- 6. Water design plans shall include abandonment of existing 4" waterline, water services and hydrants.
- 7. Provide detailed grading plan at intersection of Jetty Street and Fourth Avenue.
- 8. Provide detailed grading elevations of all sidewalks, ADA ramps and driveways.
- 9. Include design showing how existing improvements (utilities and surfaces) will tie into final design.
- 10. Clearly show public and private ownership of stormwater utilities.
- 11. Clearly show edge of existing roadways.
- 12. Clearly show stormwater drainage patterns.
- 13. The ADA ramp located at the SE corner of Jetty Street and Fourth Avenue is not an acceptable option. Please use an option not associated with "site constraints". An easement may be used to fit an ADA ramp at this location.
- 14. Water meters shall be located outside of the sidewalk will and require an easement if located outside the ROW.
- 15. Provide details of fire truck turnaround. Current design appears to show the turnaround outside of the ROW, this will not be acceptable.
- 16. Provide identification of slopes greater than 10%.
- 17. Please confirm there are no existing easements on the site.
- 18. Provide driveway entrance winged configuration per code.
- 19. The City of Warrenton utilizes ODOT standard drawings and details for public facilities construction.

  Coordinate, and modify as appropriate, any ODOT drawings with the City's Engineering Design Standards

  Adopted April 2020.
- 20. Provide Impact Study per 16.208.040
- 21. Provide a water and wastewater demand for this development.
- 22. Coordinate with the Fire chief for hydrant spacing and ensure compliance with the City code.

If there are any questions, please don't hesitate to call me.

Sincerely,

Collin Stelzig

**Public Works Director** 

**Enclosures: None** 

# CITY OF WARRENTON PLANNING AND BUILDING DEPARTMENT

# COMMERCIAL SITE DESIGN APPLICATION

Tax Lot(s) 3500

To be accompanied by a Site Plan Map, copy of property deed and if applicable, a Letter of Authorization.

FILE # SDR-21-1 FEE \$ 500.
ZONING DISTRICT
RECEIPT # 8841642  DATE RECEIVED 4/23/21

The site plan review process is a method for assuring compliance with the City of Warrenton Comprehensive Plan and Development Code, and to ensure wise utilization of natural resources, and the proper integration of land uses utilizing appropriate landscaping or screening measures. A commercial enterprise must also consider traffic circulation patterns, off-street parking, refuse containers, safe exit and entrance to the business, building height, dust control, future widening of major thoroughfares, and signs. Please answer the questions as completely as possible.

Legal Description of the Subject Property: Township 8N , Range 10W , Section(s) SE 1/4 and SW 1/4 of Section 5 ,

Property street address	444 Jetty Street	
SIGNATURE(S) THAT TI	ED APPLICANT(S) OR AUTHORIZED ACHE INFORMATION CONTINED IN THE ELONS IS TRUE AND CORRECT.	
APPLICANT:		
Printed Name: Jetty Street, I	LLC	
Signature:		Date: 05/24/2021
Address: 9879 Buena Vista	Road	Phone: 503-209-6034
City/State/Zip: Independence	e, OR 97351	Fax:
PROPERTY OWNER (if	lifferent from Applicant):	
Printed Name: Same		
Signature:		ate:
Address:	PI	hone:
E-mail Address:		
City/State/Zip:	Fa	nx:

In detail, please describe your proposal:     Development plans are for the design and construction of a 9 unit subdivision consisting of 3 standalone town home structures
containing 3 SFR dwelling units each. Initially, site infrastructure, including half street improvements, utility connections, grading
and drainage will be completed, followed immediately by construction of the first 3 unit town home.
Describe what type of business, commodity sold or manufactured, or service you are proposing.  N/A. Residential SFD Attached units will no have no operating businesses.
Current number of employees:  Projected number of customers per day  Days of operation  Number of shipments/deliveries per day  By what method will these be arriving/sent?  1. Does this property have an existing business or businesses?  No.
If yes, please list the business names and their addresses, and note these businesses on your site plan map.
4. Is there a residence or residences on this property? No. Land is unimproved.  If yes, please list the number of residences and please show these structures on your site plan map.
5. Availability of services: City water Yes, City sewer

Where and how do you propose to store materials or merchandise for sale or processing?
7 XXII
7. What percentage of the property is currently landscaped? Site is covered by native, wild vegetation. None is professionally landscaped.
What percentage of the property do you propose to landscape as part of this project?
8. How do you intend to irrigate the existing and proposed landscaping? We intend to use native dune and beach grass
as well as trees and shrubs native to this area that are drought tolerant, thus we would propose no irrigations system. Plants will be hand watered for the first year to get them established and then maintained by a professional landscape group under the management of the HC
<ol> <li>Signs require the submittal of a separate application, which may be submitted in conjunction with this site pla application. N/A.</li> </ol>
10. Please explain how you propose to provide for the drainage of this property, or explain why no additional drainage consideration is necessary. Water from the roadways will be collected and transmitted to the existing drainage systems. Water run-off from the buildings and private drive will be collected and disposed of through subsurface infiltration. Overflow from the infiltration system will be directed into the roadway drainage system.
11. Please provide the type of development on the neighboring properties.
North: Unimproved lot owned by city. Predominately used for boat trailer parking during boating season.
South: SFR
East: SFR West: SFR
12. Provide samples of the building materials for the exterior of the building with detail description of where eatype and color will be used in the construction and finishing of the building.  See attached elevations and narrative.
13. Will all parking for your business be provided on the property? Yes X No All parking must be shown on your site plan map. If off-street parking is to be provided on another property, please atta a copy of the parking easement or agreement from the property owner; or will off-street parking be provided along the abutting street.
14. How does this request comply with the Warrenton Development Code Chapter 16, Section 16.40 (General Commercial)?
This project is located with the CMU zone (Section 16.44). Townhome development is a outright permitted use. As demonstrated in the
attached site plan, density, setback, height, parking and similar development standards comply with the standards set forth within the CMU zoning.
15. Orientation of proposed building(s) (see Section 16.116.030 in the Warrenton Development Code)  Fronts of buildings will be oriented towards the to-be-improved 4th Avenue (North), with parking and garages accessed off a private easement located off of Jetty Street (South). See attached site plan.
easement located on of Jetty Street (South). See attached site plan.  commercial site design applic

16. Please address (on separate sheet of paper) all applicable sections of Design Standards (copy attached) out of the Warrenton Development Code.

\*\*\*\*\*\*\*

# PLEASE UNDERSTAND THAT THIS APPLICATION WILL NOT BE OFFICIALLY ACCEPTED UNTIL DEPARTMENT STAFF HAS DETERMINED THAT THE APPLICATION IS COMPLETELY FILLED OUT AND THE SITE PLAN MAP REQUIREMENTS HAVE BEEN COMPLETED.

#### Return Application To:

City of Warrenton Planning and Building Department PO Box 250 225 S. Main Street Warrenton, Oregon 97146

Phone: 503-861-0920 Fax: 503-861-2351

## MAP INSTRUCTIONS AND CHECKLIST

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\*\*\*\*\*\*

A Site Plan Map, which shows all existing and proposed structures and parking areas, must accompany this application. The following checklist identifies the specific information which should be included on this map.

X_Title the map "Commercial Site Design".
X The map may be drawn on 8 ½ x 11 or 8 ½ x 14 inch white paper.
× Township, Range, Section and Tax Lot number of the subject property(ies) shall be included.
North arrow, date, and map scale in one inch intervals (1" = 20') shall be noted.
X_Shape, dimensions, and square footage of the parcel shall be shown. Draw the property line with a solid black line and label adjacent street(s), if any.
× Identify existing and proposed easements with a dotted line.
N/A Identify the location and direction of all water courses and drainage ways, as well as the location of the 100-year floodplain, if applicable.
N/A Illustrate all existing buildings and their sizes.
X Illustrate all proposed new construction with dashed lines (include dimensions).

_X Illustrate parking area with number of spaces and access drive areas. If off-street parking is to be provided, even in part, on another property, please show its location on your site plan map, and attach a copy of the parking easement or agreement from the adjoining property owner.
X Illustrate the entrance and exit points to the property, pattern of traffic flow, loading and unloading area, sidewalks and bike paths.
X Illustrate the existing or proposed location, height, and material of all fences and walls.
X_Illustrate existing or proposed trash and garbage container locations, including type of screening.
X_Name of the person who prepared the map.
N/A Locations, sizes, and types of signs (shall comply with Chapter 16.144 of the Warrenton Development Code).
Map shall show entire tax lot plus surrounding properties.
N/A Identification of slopes greater than 10%.
location, condition and width of all public and private streets, drives, sidewalks, pathways, right-of-ways, and easements on the site and adjoining the site.
N/A Identify designated flood hazard area(s).
N/A Show wetland and riparian areas, streams and/or wildlife areas.
N/A Any designated historic and cultural resources areas on the site and/or adjacent parcels or lots.
Location, size and type of trees and other vegetation on the property.

# **ELEVATION FINISH MATERIALS**

Per elevations, the primary façade of the buildings will be made of a mixture of James Hardie Cementous siding material. The lower floors of the building will be wrapped with select Cedarmill 8.25" lap siding, separated by bellybands distinguishing each floor level. The upper floor will have a mixture of Hardie Board & Batt on the east and west elevations as well as architecture pop outs on the north elevations. We will also be incorporating Hardi Smooth Sand textured panels and straight edge shingle panels on select architectural areas as shown on the elevations. 4' synthetic stone wainscot will be featured on the north (front) and south elevations as shown. Windows will receive full four way trim wraps on north, south, east and west elevations. Roofing materials will consist of 30 year composite shingles in black or dark grey. Architectural eyebrows at select eves will be installed as shown. Paint colors per provided elevations.

# CITY OF WARRENTON PLANNING AND BUILDING DEPARTMENT

SUBDIVISION APPLICATION (To be accompanied by a Tentative Map, and copy of property deed, Letter of Authorization, if applicable.)	FILE # $\frac{806-21-1}{8000000000000000000000000000000000000$
Legal Description of the Subject Property:	DATE RECEIVED VIOLATION
Township Range 8N 10W	Section Tax Lot SE 1/4 and SW 1/4 of Section 5 3500
Street address of the property: 444 Jetty Street	
	R AUTHORIZED AGENT, AFFIRM BY MY/OUR NTINED IN THE FOREGOING APPLICATION AND RRECT.
APPLICANT:	
Printed Name:Jetty Street, LLC	
Signature: MI	Date:05/24/2021
Address: 9879 Buena Vista Road	Phone: 503-209-6034
City/State/Zip: Independence, OR 97351	Fax:
PROPERTY OWNER (if different from Applicant)	
Printed Name: Same	
Signature:	Date:
Address:	Phone:
City/State/Zip:	Fax:
Is this a Planned Unit Development (PUD)? No	X Yes
IS THIS A "PHASED DEVELOPMENT"? Yes_	NoX

\*\*\*\*\*

Overall development plan, including phase or unit sequence.
Development plans are for the design and construction of a 9 unit subdivision consisting of 3 standalone town home units
containing 3 SFR dwelling units each. Initially, site infrastructure, including half street improvements, utility connections, grading
and drainage will be completed, followed immediately by construction of the first 3 unit town home.
Projected Timetable for sequence of development
Based on suggested time line from City, we plan to have preliminary plat, subdivision and land use approvals by the third quarter,
2021, with infrastructure improvements completed in 4th quarter 2021 and the first 3 unit town home completed in 2nd or 3rd quarter
2022.
Development plans for any common elements or facilities.  Landscaping will be commonly owned through its own separate tax parcel and will be governed and maintained as outlined in the
to be established Home Owners Association (HOA).
to be detablished from the elimination of the elimi
If the proposed subdivision has an unknown impact upon adjacent lands or land within the general vicinity the Planning Commission may require a potential street development pattern for adjoining lands to be submitted together with the tentative plan as part of the phased development plan for the subject subdivision.
We do not believe this to be applicable.
we do not believe this to be applicable.
Show compliance with the Comprehensive Plan and applicable sections of the Development Code.  Site is zone for Commercial Mixed Use (CMU) for which single family attached townhome development is an outright permitted
use. The project is also bound by the south, west and east to similar single family detached units. City of Warrenton's 2011
use. The project is also bound by the south, west and east to similar single family detached units. City of Warrenton's 2011 site the need for emphasis of increased housing demand and sites specifically attached single family dwellings as a means
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site the need for emphasis of increased housing demand and sites specifically attached single family dwellings as a means in which to accomplish this. In fact, it notes that CMU zone is only one of four potential zones that will allow for attached family dwellings as a means of the first 3 unit town home in January of 2022 and completion in July of 2022.

#### PRELIMINARY SUBDIVISION PLAT REQUIREMENTS

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A "preliminary subdivision plat" shall be submitted with the following information depicted:

- 1. Proposed name of the subdivision;
- 2. Names, addresses, and phone numbers of property owner(s) (including mortgage holders if any), surveyor, and applicant if different from property owner, and assumed business name(s) filed or to be filed with the Corporation Commission by the applicant;
- 3. Proposed subdivision showing the parcel boundaries and dimensions, the area of each parcel, location of any and all easements (and what the easement is), right-of-way widths, existing roads;
- 4. Date of map preparation, north point, scale, property identification by township, range, section and tax lot numbers;
- 5. Location of all existing buildings, creeks, canals, ditches, any topographical features (ie., canyons, bluffs, wetlands, natural springs, floodplain);
- 6. Location, width, name, curve ratio, and approximate grade of all proposed right-of-ways;
- 7. Location of any existing features such as section lines, section corners, city and special district boundary lines, and survey monuments;
- 8. Existing sewer lines, water mains, culverts, and other underground and overhead utilities within and adjacent to the proposed subdivision together with pipe sizes, grades and locations;
- 9. Contour lines related to some established bench mark or other engineering acceptable datum;
- 10. Zoning of subject property, and adjacent tax lots to the proposed subdivision;
- 11. Location, names, width, typical improvements, cross sections, bridges, culverts, approximate grades, curve radii and centerline lengths and reserve strips of all proposed streets, and the relationship to all existing and projected streets;
- 12. Location, width and purpose of all proposed easements or right-of-ways, and relationship to all existing easements and right-of-ways;
- 13. Location of at least one temporary bench mark within the proposed subdivision boundary;
- 14. Location, approximate area and dimensions of each lot, and proposed lot and block numbers;
- 15. Location, approximate area and dimensions of any lot or area proposed for public use, the type of use proposed, and plans for improvements or development;
- 16. Proposed use, location, approximate area and dimensions of any lot intended for non-residential use;

7.	Source, method, and preliminary plans for domestic and other water supplies, sewer lines, and all utilities;		
8.	Description and location of any proposed community facility;		
9.	Storm water and other drainage facility plans;		
20.	Proposed deed restrictions including access restrictions or protective covenants if such are proposed to be utilized for the proposed subdivision;		
	ADDITIONAL SUBMITTALS		
21.	Statement from each utility company proposed to serve the proposed subdivision stating that each company is able and willing to serve the proposed subdivision as set forth in the tentative plan, and the conditions and estimated costs of each service;		
22.	Proposed Fire protection system for the proposed subdivision and written approval thereof by the fire chief		
23.	Statement from School District.		
	*******  REQUIREMENTS  ***********************************		
l <b>.</b>	A vicinity map must be submitted showing the proposed subdivision in relationship to the adjacent properties, roadways, and ownership patterns. This map must include names of all existing roadways.		
<u>)</u> .	Who will supply the water? City of Warrenton		
3.	Access will be taken from		
1.	What is the intended use of the parcels being created?  Nine Single Family Attached residences through three town home structures.		
5,	What is the current use of the parcel?Unimproved, vacant land.		
·,	Proposal is in compliance with the City of Warrenton's Comprehensive Plan and Development Code.		

use. The project is also bound by the south, west and east to similar single family detached units. City of Warrenton's 2011 site the need for emphasis of increased housing demand and sites specifically attached single family dwellings as a means

in which to accomplish this. In fact, it notes that CMU zone is only one of four potential zones that will allow for attached family dwellings.

Proposal does not conflict with acquired public access easements within or adjacent to the subdivision.  Confirmed
All required public services and facilities are available and adequate or are proposed to be provided by th applicant.
Confirmed. Will Serves from Pacific Power and Northwest Natural Gas provided.
The subdivision contributes to orderly development and land use patterns in the area, and provides for the preservation of natural features and resources such as streams, lakes, natural vegetation, and special terrafeatures.
The subdivision is consistent with the surrounding land uses and zoning criteria. Landscaping established through HOA will utilize plants, grasses and practices consistent with marine area landscaping and local nature. There are no streams, lakes or special terrain on the site.
The subdivision will not create an excessive demand on public facilities and services required to serve the development.
Confirmed. The additional of 9 attached residential dwelling units will not create undo demand on public utilities. Developer has identified inadequate water flow to the site and as part of the improvement plans will upsize the sizing of the water facilities to compensate for the new units. Additionally, the city has identified additional surface water issues generated from neighboring
structure's utilizing storm surface flow practices. Developer will also be extending public storm systems to correct this issues as was install its own storm systems onsite to mitigate future concerns.
The preliminary plat for the proposed subdivision meets the requirements of ORS 92.090.  Confirmed

Planning and Building Department

PO Box 250

225 SW Main Street

Warrenton, Oregon 97146 Phone: 503-861-0920

Fax: 503-861-2351







ARCHITECTURE INCORPORATED 275 COURT ST. NE

IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2020-190 DATE: 17 JUNE 2021 revisions



ARCHITECTURE INCORPORATED 275 COURT ST. NE

IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2020-190 DATE: 17 JUNE 2021 revisions



P.O.BOX 250 WARRENTON, OR 97146-0250 OFFICE: 503.861.2233 FAX: 503.861.

August 4, 2021

To: Warrenton Planning Commission From: Will Caplinger, Interim City Planner

Re: Site Design Review Application SDR-21-2

#### **BACKGROUND**

On June 3, 2021, Kyle Langeliers submitted the application listed above on behalf of property owners Warrenton Fiber Company, David Nygaard, and John Nygaard. The project is a 27,550 square foot Roby's Furniture Store with associated site improvements on a portion of Tax Lot 81027AB06400, an undeveloped property located on the north side of Highway 101 Business, west of SE Marlin Avenue in the General Commercial (C-1) Zone.

The application was deemed complete on July 3, 2021. Notice for a Type III public hearing was mailed on July 23, 2021 and was published in the Astorian on July 31, 2021. No public comments have yet been received. Applicant's responses are included in the discussions following the Staff Finding as appropriate, and the application form with applicant's full responses is attached to the staff report for reference. The primary purpose and intent of the staff report is to make findings on whether the application satisfies criteria and standards specified in the Warrenton Municipal Code (WMC), in that the City maintains consistency with Comprehensive Plan provisions through the enactment and application of land use regulations. Hence, the staff report adheres to the WMC chapter order listed below.

#### APPLICABLE CRITERIA AND STANDARDS

Chapter 16.40 General Commercial (C-1) District

Chapter 16.88 Flood Hazard Overlay District

Chapter 16.116 Design Standards

Chapter 16.120 Access and Circulation

Chapter 16.124 Landscaping, Street Trees, Fences, and Walls

Chapter 16.128 Vehicle and Bicycle Parking

Chapter 16.136 Public Facilities Standards

Chapter 16.140 Stormwater and Surface Water Management

Chapter 16.144 Signs

Chapter 16.152 Grading, Excavating, and Erosion Control Plans

Chapter 16.156 Wetland and Riparian Corridor Development Standards

Chapter 16.208 Types of Applications and Review Procedures

Chapter 16.192 Large Scale Developments

Chapter 16.212 Site Design Review

#### **FINDINGS**

### Chapter 16.40 General Commercial (C-1) District

#### 16.40.020 Permitted Uses.

The following uses and their accessory uses are permitted in the C-1 zone if the uses conform to the standards in Sections 16.40.040 through 16.40.060, Chapters 16.124, 16.212 and other applicable Development Code standards, and other City laws:

- A. Only the following uses and their accessory uses are permitted along Highway 101, SE Marlin, SE Ensign Drive, SE Discovery Lane, and SE Dolphin Avenues and shall comply with the above noted sections as well as Chapter 16.132:
  - 3. Retail business establishments.

Staff Finding: This criterion is met.

• The proposed use is a retail business establishment.

#### 16.40.040 Development Standards.

The following development standards are applicable in the C-1 zone:

- A. <u>Density Provisions</u>.
  - 1. Minimum lot size, commercial uses: none.
  - 2. Minimum lot width, commercial uses: none.
  - 3. Minimum lot depth, commercial uses: none.
  - 4. Maximum building height: 45 feet.
  - 5. Commercial uses, maximum lot coverage: none.

#### B. Setback Requirements.

- 1. Minimum front yard setback, commercial uses: none except where adjoining a residential zone, in which case it shall be 15 feet. See Section 16.40.050 for maximum front yard setback for commercial uses.
- 2. Minimum side and rear yard setbacks, commercial uses: none except where adjoining a residential zone in which case there shall be a visual buffer strip of at least 10 feet wide to provide a dense evergreen landscape buffer which attains a mature height of at least eight feet. Such buffers must conform to the standards in Chapter 16.124, Landscaping, Street Trees, Fences and Walls.
- C. Landscaping requirements shall comply with Chapter 16.124 of the Development Code.

Staff Finding: These criteria are met.

- A. The only Density Provision that applies is #4 limiting building height to 45 feet. The highest elevation of the building will be 34 feet at the top of the main entrance parapet wall.
- B. The site adjoins General Commercial (C-1) zoning on all sides.
- C. Landscaping provisions are discussed below under Chapter 16.124

#### 16.40.050 Design Standards.

*The following design standards are applicable in the C-1 zone:* 

A. Any commercial development shall comply with Chapter 16.116 of the Development Code.

- B. Lots fronting onto U.S. Highway 101 shall have a setback of at least 50 feet between any part of the proposed building and the nearest right-of-way line of U.S. Highway 101.
- E. Maximum front yard setback for commercial buildings in the C-1 zone adjacent to existing or planned transit stops shall be 10 feet.

Staff Finding: These criteria are met or do not apply.

- A. Chapter 16.116 Design Standards section is below.
- B. The lot does not front onto U.S. Highway 101. The development fronts on Highway 101 Business, which is geographically and functionally different than its namesake.
- E. The Sunset Empire Transit District does not have routes along Highway 101 Business.

#### Chapter 16.88 Flood Hazard Overlay District

#### 16.88.030 Administration.

- A. <u>Establishment of Floodplain Development Permit</u>. A floodplain development permit, in addition to any regular building permit and/or grading permit that may be required, shall be obtained before construction or development begins in any area of special flood hazard established in Section 16.88.010. The permit shall be for all structures including manufactured homes, as set forth in the "definitions," and for all development including fill and other activities.
- B. Application for a development permit shall be made on forms furnished by the Planning and Building Department and may include but not be limited to plans in duplicate drawn to scale showing the nature, location, dimensions, and elevations of the area in question; existing or proposed structures, fill, storage of materials, drainage facilities, and the location of the foregoing.

Staff Finding: This criterion will be me by a condition of approval.

- The project site is with the FEMA AE-100-year Flood Hazard Zone where an elevation certificate and a floodplain development permit are required. The applicant has obtained the elevation certificate but will need to submit a floodplain development permit to the City.
- The floodplain development permitting process ensures compliance with Section 16.88.040 Standards for Flood Hazard Reduction.

#### Chapter 16.116 Design Standards

#### 16.116.030 Architectural and Site Design Standards.

The City's development design standards are for the commercial district corridors along US Highway 101, Alternate Highway 101, SW & SE Dolphin, SE Marlin Avenue, E Harbor Drive, S Main Avenue, SE Ensign Lane, Pacific Drive, and SE Neptune. The standards in this section apply only to property in the commercial corridors listed above; lands outside of these commercial corridors are not subject to these standards.

A. <u>Orientation of Buildings.</u> Building(s) shall be located on the property with the principal building entrance oriented toward the primary focal point of the property/development. With the exception of US Hwy 101, all buildings located on a public street shall have the main entrance front onto said street.

Staff Finding: This criterion is met.

- The main entrance of the building faces northwest towards Highway 101.
  - B. <u>Natural Features.</u> The property owner/developer is encouraged to protect and incorporate areas of special interests and other natural features such as grade, trees, vegetation and

waterways, into the overall site plan. These areas may be calculated as part of the landscaping requirement if healthy and not damaged during construction.

Staff Finding: This criterion is met.

• The project site does not contain areas of special interest and other natural features as described. The existing drainage ditch on the south side of the development, however, will be "dress-graded" and planted with native grasses.

#### C. Building Requirements.

1. <u>Customer Entrances.</u> The customer entrance(s) shall be clearly defined and highly visible by using features such as canopies, porticos, overhangs, recesses/projections, raised corniced parapets, decorative awnings over the door, arcades, arches, wing walls, and integral planters are required. A combination of two features shall be incorporated at a minimum. Mixed use buildings that require two or more entrances are allowed but shall meet the standard.

Staff Finding: This criterion is partially met and will be fully met by a condition of approval.

- The main entrance is defined by an angled parapet wall and a canopy. The south entrance is defined only by a canopy.
  - 2. <u>Roof Design.</u> Roofs should be designed to reduce the apparent exterior mass of a building, add visual interest and be appropriate to the architectural style of the building. Variations within one architectural style are highly encouraged. Visible roof lines and roofs that project over the exterior wall of a building enough to cast a shadow on the ground are highly encouraged. Architectural methods shall be used to conceal flat roof tops. Overhanging eaves, sloped roofs and multiple roof elements are highly encouraged. Mansard style roofs shall not be allowed.

Staff Finding: This criterion is met.

• The roof design includes the large, angled parapet wall on the north elevation and contains a sloped roof.

#### 3. <u>Materials.</u>

- a. The predominant exterior building materials shall be of high quality materials, including, but not limited to, brick, sandstone, wood, native stone and cultured stone as accents to distinguish specific architectural features, rusticated metal cladding, tinted/textured concrete masonry units and/or glass products. Simulated material may be substituted for any of the aforementioned building materials.
- b. At least three different building materials shall be used for 100% construction of a building. The main entrance does not count towards this standard.
- c. Exterior building materials shall not include smooth-faced concrete block, tilt-up concrete panels, EIFS, stucco, or T 1-11. Prefabricated steel panels are excluded unless the design and material meets the City's design standards.
- d. Metal roof may be allowed if compatible with the overall architectural design of the building.

Staff Finding: These criteria are partially met and will be fully met with conditions of approval.

- a. The predominant exterior building material is wood. This criterion is met.
- b. The exterior building materials are limited to board & batt siding and lap siding. This criterion is not met.
- c. None of the exterior building materials listed are proposed. This criterion is met.
- d. A metal roof is specified, which seems to be compatible with the overall design of the building. This criterion is met.
  - 4. <u>Architectural Vernacular and Features.</u> Architectural features shall include, but are not limited to, the following: recesses, projections, wall insets, arcades, window display areas, awnings, balconies, window projections, landscape structures or other features that complement the design intent of the structure and are acceptable to the Community Development Director. Vernacular architecture referred to as "Northwest Regional" or "Arts & Crafts" design shall be required. This could include the combination of materials, form, and style. Wood in the form of timber, glulam, cross laminated timber, and other natural features are predominant on the exterior and main entrance.

Staff Finding: This criterion is met.

- Architectural features include extensive use of awnings and window displays. The wooden siding mix appears to provide a reasonable rendering of vernacular architecture.
  - 5. <u>Building Colors.</u> Exterior colors shall be of low reflectance, subtle, neutral or muted earth tone colors. The use of high intensity colors such as black, neon, metallic or fluorescent colors for the façade and/or roof of the building are prohibited except as approved for building trim.

Staff Finding: This criterion will be met with a condition of approval.

- 6. <u>Mechanical Equipment, Outdoor Storage and Service Areas.</u> The location of loading docks, outdoor storage yards and all other service areas shall be located to the sides and/or rear of a building, except when a site abuts Highway 101, in which case the said areas shall be located to the sides of the building that do not face Highway 101.
  - a. All outdoor storage yards, loading docks, service areas and mechanical equipment or vents larger than eight inches in diameter shall be concealed by screens at least as high as the equipment they hide, of a color and material matching or compatible with the dominant colors and materials found on the façades of the principal building. Chain link or cyclone fencing (with or without slats) shall not be used to satisfy this requirement.
  - b. Equipment that would remain visible despite the screening, due to differences in topography (i.e., a site that is at a lower grade than surrounding roadways) shall be completely enclosed except for vents needed for air flow, in which event such vents shall occupy no more than 25% of the enclosure façade.
  - c. The architectural design of the buildings shall incorporate design features which screen, contain and conceal all heating, ventilation, air conditioning units, trash enclosures, dumpsters, loading docks and service yards.

Staff Finding: These criteria are met.

- a. The loading docks are built into a building extension with a lowered sloped roof so that they are compatible with the facades of the principal part of the building. The refuse dumpster area is enclosed.
- b. No equipment remains visible.
- c. The design of the building suitably screens or contains all of the equipment and auxiliary areas listed.
  - 7. <u>Building Mass.</u> Building mass shall be limited to 150 feet in length. If any portion of the building exceeds this length, a recess or variation in height shall be required.

Staff Finding: This criterion is met.

- The building is 280 feet long. Variations in height are provided at the main entrance via the angled parapet wall and at the rear of the building by the increased height of the warehouse area.
- D. <u>Community Amenities</u>. Each building shall contribute to the establishment or enhancement of the community and public spaces by providing at least two community amenities such as: a patio/seating area, water feature, art work or sculpture, pedestrian plaza with park benches and landscaping, usable green spaces, or other features, such as a dedicated public park acceptable to the Parks Advisory Board and City Commission.

Staff Finding: This criterion will be met with a condition of approval.

E. <u>Outdoor Lighting.</u> The lighting for mixed use, residential, commercial and industrial zones shall be shielded and directed down into the site and shall not shine or glare onto adjacent property or streets. Light poles, light fixtures and flag poles shall not exceed 25 feet in height and shall be pedestrian scaled. Installation cost shall be borne by the developer. Decorative exterior lighting is required on the front elevation and at the main entrance. Decorative is defined as "gooseneck" or similar design that is pedestrian oriented.

Staff Finding: These criteria will be met by conditions of approval.

#### Chapter 16.120 Access and Circulation

#### 16.120.020 Vehicular Access and Circulation.

- C. <u>Access Permit Required</u>. Access to a street requires an access permit.
- D. <u>Traffic Study Requirements</u>. The City or other agency with access jurisdiction may require a traffic study prepared by a qualified professional to determine access, circulation and other transportation requirements. (See also Chapter 16.136, Public Facilities Standards, and Chapter 16.256, Traffic Impact Study.)

Staff Finding: The project does not have the potential to cause the conditions that require a traffic study.

• 16.256.030 When [a Traffic Study is] Required.

A traffic impact study will be required to be submitted to the City with a land use application, when the following conditions apply:

A. The development application involves a change in zoning or a plan amendment designation; or,

- B. The development shall cause one or more of the following effects, which can be determined by field counts, site observation, traffic impact analysis or study, field measurements, crash history, Institute of Transportation Engineers Trip Generation Manual; and information and studies provided by the local reviewing jurisdiction and/or ODOT:
- 1. An increase in site traffic volume generation by 300 average daily trips (ADT) or more; or
- 2. An increase in ADT hour volume of a particular movement to and from the state highway by 20% or more; or
- 3. An increase in use of adjacent streets by vehicles exceeding the 20,000 pound gross vehicle weights by 10 vehicles or more per day; or
- 4. The location of the access driveway does not meet minimum sight distance requirements, or is located where vehicles entering or leaving the property are restricted, or such vehicles queue or hesitate on the state highway, creating a safety hazard; or
- 5. A change in internal traffic patterns that may cause safety problems, such as back up onto the highway or traffic crashes in the approach area. (Ord. 1225 § 13, 2019)
- A. N/A
- B. 1: According to the Customer/Traffic Analysis contained in Exhibit O, the six Roby's stores in Oregon averaged 14.6 customer trips per business day over the three-year period 2017-2019. The store will not have the potential to generate 300 average daily trips.
- B.2: Based on the ADT is B.1, the store does not have the potential to increase ADT hour volume on the state highway.
- B.3: The project narrative states that deliveries will generally be on a weekly basis.
- B.4: N/A
- B.5: The entrance to the private drive is more than 400 feet from the intersection of Highway 101 Business and SE Marlin Avenue, where traffic from SE Marlin is controlled by a stop sign. The customer parking lot entrance is 40 feet off the highway at a right angle to the private drive and the truck entrance route wraps completely around the building, so there is no potential for back up onto the highway and an insignificant potential for traffic crashes in the approach area.
- E. <u>Conditions of Approval</u>. The City or other agency with access permit jurisdiction may require the closing or consolidation of existing curb cuts or other vehicle access points, recording of reciprocal access easements (i.e., for shared driveways), development of a frontage street, installation of traffic control devices, and/or other mitigation as a condition of granting an access permit, to ensure the safe and efficient operation of the street and highway system. Access to and from off-street parking areas (other than driveways that serve single-family, two-family, or three-family dwellings) shall not permit backing onto a public street.

Staff Finding: Conditions of approval are applied in other sections. See Section F below

F. <u>Access Options</u>. When vehicle access is required for development (i.e., for off-street parking, delivery, service, drive-through facilities, etc.), access shall be provided by one of the following methods (a minimum of 10 feet per lane is required). These methods are "options" to the developer/subdivider, unless one method is specifically required under Division 2, or through conditions required by the hearings body.

2. <u>Option 2</u>. Access is from a private street or driveway connected to an adjoining property that has direct access to a public street (i.e., "shared driveway"). A public access easement covering the driveway shall be recorded in this case to assure access to the closest public street for all users of the private street/drive.

Staff Finding: This criterion will be met by a condition of approval if necessary.

- The Site Design Review Narrative Report (pg. 2, under Section 2.0, Subsection A) states that, "As part of the previous Tractor Supply project, a private access road loop was constructed that extends north off of Alternative Hwy 101 about 250 feet, then turns and connects with Marlin Avenue about 500 feet east. These two existing roads referred to herein as Private Drive (north-south) and Private Drive (east-west) define the westerly and northerly sides of the site..."
- If a public access easement covering the driveway in the Tractor Supply project was not required, then the condition to record an easement will be necessary for the Roby's project.
- I. <u>Shared Driveways</u>. The number of driveway and private street intersections with public streets shall be minimized by the use of shared driveways with adjoining lots where feasible. The City shall require shared driveways as a condition of land division, development review, or site design review, as applicable, for traffic safety and access management purposes in accordance with the following standards:
  - 2. Access easements (i.e., for the benefit of affected properties) shall be recorded for all shared driveways, including pathways, at the time of final plat approval (Chapter 16.216) or as a condition of development review or site development approval (Chapter 16.212).

Staff Finding: This criterion will be met with a condition of approval if necessary.

- See discussion points under Subsection *F. Access Options* above.
- L. <u>Fire Access and Circulation</u>. The City of Warrenton adopts the Uniform Fire Code, as amended, including administrative sections and all appendices and all the State of Oregon revisions. All development in the City of Warrenton is required to meet these minimum adopted standards.

Staff Finding: This criterion is met.

• Fire access criteria along the Private Drive were met in the construction of the road for the Tractor Supply project, and the Roby's development will provide minimum 20-foot-wide continuous travel lanes around the building.

#### 16.120.030 Pedestrian Access and Circulation.

A. <u>Pedestrian Access and Circulation</u>. To ensure safe, direct and convenient pedestrian circulation, all developments, except single-family detached housing, duplexes, or triplexes on individual lots, shall provide a continuous pedestrian and/or multi-use pathway system.

Staff Finding: This criterion is met.

• The Site Design Review Narrative Report (pg. 5, under Subsection G) states that,"The existing site is surrounded on the west and north by new sidewalks...[and] new perimeter sidewalks are proposed around and directly against west and south sides of the new building...ADA sidewalk ramp access is provided at both the main northwest entrance and the south side entrance."

#### Chapter 16.124 Landscaping, Street Trees, Fences, and Walls

#### 16.124.070 New Landscaping.

- A. <u>Applicability</u>. This section shall apply to all developments within the City of Warrenton.
- B. <u>Landscaping Plan Required</u>. For every new development in the City of Warrenton requiring a City permit, a landscape plan is required.

Staff Finding: This criterion will be met by a condition of approval.

• The applicant has provided only a concept landscaping plan. In the Submittal Package, Appendix D/Landscaping and Lighting Plan, under "Construction Notes – Landscaping" states that, "Detailed landscape planting plan and planting to be provided by design/build (D/B) contractor, following city standards." The condition will require a landscape plan that meets the standards in 16.124.070 B-G.

#### Chapter 16.128 Vehicle and Bicycle Parking

#### 16.128.030 Vehicle Parking Standards.

At the time a structure is erected or enlarged, or the use of a structure or parcel of land is changed within any zone in the City, off-street parking spaces shall be provided in accordance with requirements in this section, chapter, and Code, unless greater requirements are otherwise established. The minimum number of required off-street vehicle parking spaces (i.e., parking that is located in parking lots and garages and not in the street right-of-way) shall be determined based on the standards in Table 16.128.030.A.

#### A. General Provisions.

- 1. Groups of four or more off-street parking spaces shall be served by a driveway or aisle so that no backing movements or other maneuvering within a street or right-of-way, other than an alley, will be required. Section 16.120.020 contains driveway opening and width standards.
- 2. Service drives or aisles to off-street parking areas shall be designed and constructed to facilitate the flow of traffic and to provide maximum safety to pedestrian, bicycle, and vehicular traffic on the site.
- 3. Service drives or aisles shall be clearly and permanently marked and defined through the use of bumper rails, fences, buildings, walls, painting, or other appropriate markers.
- 4. Fractional space requirements shall be counted as a whole space.
- 5. All parking lots shall be designed and constructed to meet the City standards of Section 16.120.020, this chapter, Chapter 16.136, and this Code.

Staff Finding: These criteria are met or will be met with conditions of approval.

- 1. The parking lot is served by the Private Drive. All maneuvering will occur within the parking lot.
- 2. The Private Drive was constructed to City standards for the Tractor Supply development.
- 3. Service drives and aisles will be defined by retaining walls or building walls and will be clearly and permanently marked.
- 4. The parking requirement for furniture stores in Table 16.128.030.A is one space per 750 square feet of area, which for the 27,550 square foot store results in a requirement of 36.7 spaces, which is rounded up to 37 spaces. The parking plan indicates 44 spaces, including two ADA-compliant spaces.
- 5. Compliance with City construction standards will be a condition of approval.

#### 16.128.040 Bicycle Parking Requirements.

- A. All uses shall provide bicycle parking in conformance with the following standards which are evaluated during development review or site design review.
- B. Number of Bicycle Parking Spaces. The minimum number of bicycle parking spaces required for uses is provided in Table 16.128.040.A.

Staff Finding: This criterion will be met with a condition of approval.

• For commercial uses, Table 16.128.040.A requires 2 spaces per primary use or 1 space per 5 vehicle spaces. The 44 proposed parking spaces would require 8.8. rounded up to 9 bicycle spaces. 25% of the spaces must be long term and 75% must be short term. Short term spaces can be outdoors on lockable sheltered racks, as proposed on applicant's Landscape Plan (Appendix D). Long term spaces must be in a lockable enclosure, which may be a secure room inside the store. The percentage mix could be interpreted as either 2 long term/7 short term, or 3 long term/6 short term. Staff suggests that the choice be the prerogative of the applicant.

#### Chapter 16.136 Public Facilities Standards

#### 16.136.010 Purpose and Applicability.

- C. <u>Standard Specifications</u>. The City shall establish standard construction specifications consistent with the design standards of this chapter and application of engineering principles. They are incorporated in this Code by reference.
- D. <u>Conditions of Development Approval</u>. No development may occur unless required public facilities are in place or guaranteed, in conformance with the provisions of this Code. Improvements required as a condition of development approval, when not voluntarily accepted by the applicant, shall be roughly proportional to the impact of development. Findings in the development approval shall indicate how the required improvements are roughly proportional to the impact.

Staff Finding: These criteria are met.

• Although staff anticipates that the applicant will voluntarily accept the improvement requirements, the improvements are nonetheless roughly proportional to the impact of the development, in that the improvements are confined to the site and the public access areas adjacent to the site and are consistent with the Purpose of the chapter and established standard specifications.

#### 16.136.020 Transportation Standards.

- A. <u>Development Standards</u>. No development shall occur unless the lot or parcel abuts a public or private street, other than an alley, for at least 25 feet and is in conformance with the provisions of Chapter 16.120, Access and Circulation, and the following standards are met:
  - 1. Streets within or adjacent to a development shall be improved in accordance with the Comprehensive Plan, Transportation System Plan, and the provisions of this chapter;

Staff Finding: Street improvements were not specifically noted as required in the pre-application conference memo and are not proposed in the application.

*J.* <u>Sidewalks, Planter Strips, Bicycle Lanes.</u> Sidewalks, planter strips, and bicycle lanes shall be installed in conformance with the standards in Table 16.136.010, applicable provisions of the

Transportation System Plan, the Comprehensive Plan, and adopted street plans. Sidewalks are required on both sides of all streets (including streets inside easements), except for alley ways and walking paths.

Staff Finding: These criteria are met or will be met by conditions of approval.

- Existing sidewalks have been constructed on the Private Drive along the west side and north side of the site.
- Improvements along the south side of the development may be required by the Public Works Director in accordance with the standards in Table 16.136.010.
- X. Street Light Standards. Street lights shall be installed in accordance with City standards.

Staff Finding: This criterion will be met by a condition of approval.

• The Site Design Review Narrative Report (page 6, Subsection J. Outdoor Lighting) states that, "Separate street lighting along the existing (east-west) Private Drive and (north-south) Private Drive was not included with original road construction or the recent Tractor Supply development and none is currently present...If additional street lighting should be required by the City, such will be coordinated with PP&L as part of planned lighting D/B construction.

#### Chapter 16.140 Stormwater and Surface Water Management

#### 16.140.020 Developments Must Drain Properly.

- A. All developments must provide an adequate drainage system to prevent the undue detention or retention of stormwater or surface water on the development site.
- C. Whenever practicable, the drainage system of a development must coordinate with and connect to the drainage systems or drainage ways on surrounding properties or streets.
- D. All developments must be constructed and maintained so that adjacent properties are not unreasonably burdened with stormwater runoff as a result of the developments.

#### 16.140.030 Surface Water Management.

All developments must be constructed and maintained so that impacts to natural and man-made drainage ways do not unreasonably burdened upstream or downstream properties with surface water flooding as a result of the developments.

Staff Finding: These criteria are met in the submittal and will be ensured by conditions of approval.

• As required in the pre-application memo, the application includes the *Stormwater Management Plan, Technical Memorandum* (Stricker Engineering, May 2021) as well as engineered stormwater and surface water management system designs in the *Civil Site Design* plan set. The SWMP states on Page 1 that, "As part of the City approval process for the Tractor Supply development a Stormwater Management Plan (SWMP) was completed by A.M. Engineering, June 30, 2019, that addressed stormwater management interests for all of Lot 1, including the east portion. As this plan has been previously approved by the City and references Corps and Oregon DSL permitting that encompasses the entire 16.54 acre commercial development, stormwater system planning, site engineering and site specific stormwater system designs for the east portion of Lot 1 follow the findings and guidance outlined in the referenced 2019 SWMP."

#### 16.140.040 Erosion and Sediment Control.

- B. Erosion and sediment control plans are required by the City as a component of the site plan for all plats and all projects which require site plan review. Erosion control plans must be designed to the specifications as outlined in this chapter.
- C. Development of the land may not begin (and no building permits may be issued) until the City-appointed engineer approves the erosion control plan.

Staff Finding: These criteria will be met by conditions of approval.

- B. The *Stormwater Management Plan, Technical Memorandum* (Page 5, Subsection 2.4.5) states that, "The project will obtain an NPDES 1200-C Permit from DEQ...An ESCP is being proposed that follows the guidance outlined in the NPDES 1200-C permit and incorporates traditional BMP's for erosion and sediment control throughout construction." The SWMP contains a NPDES 1200-C permit application and ESCP drawings.
- C. Reflected in a condition of approval.

#### Chapter 16.152 Grading, Excavating, and Erosion Control Plans

### 16.152.060 Grading Permit Requirements.

- A. <u>Permits Required</u>. Except as exempted in Section 16.152.040, no person shall do any grading without first obtaining a grading permit from the building official. A separate permit shall be obtained for each site, and may cover both excavations and fills.
- E. <u>Regular Grading Requirements</u>. Each application for a grading permit shall be accompanied by a plan in sufficient clarity to indicate the nature and extent of the work.

Staff Finding: These criteria will be met by conditions of approval.

• The application packet includes an *Excavation and Grading Plan, Technical Memorandum (Stricker Engineering, May 2021)* which will be subject to the approval of the City Engineer.

# Chapter 16.156 Wetland and Riparian Corridor Development Standards

#### 16.156.030 Wetland Area Development Standards.

Wetland areas in the City of Warrenton are identified on the 1" equals 400' feet maps entitled City of Warrenton Wetland Conservation Plan Inventory dated October 17, 1997. These maps show approximate wetland boundaries for wetland areas within the Warrenton Urban Growth Boundary.

- B. Applications to the City of Warrenton for grading or building permits that would authorize development within a jurisdictional wetland boundary approved by the Oregon Department of State Lands shall contain the following:
  - 1. A State of Oregon Wetland Removal-Fill Authorization.

Staff Finding: This criterion is met.

• The project holds Department of State Lands Wetland Fill Permit No. 38988-FP.

#### Chapter 16.192 Large Scale Developments

#### 16.192.010 Approval Process.

- A. Large-Scale Development. A development which is:
  - 3. A commercial, industrial, public or institutional development which within two calendar years will use two or more acres of land or will have buildings with 10,000 square feet or more of floor area;

#### B. Review Type.

1. Type III: "1, 2, 3, or combined 1 and 4."

Staff Finding: These criteria are met.

• The project meets the definition of a Large Scale Development, and is subject to a Type III review.

#### 16.192.020 General Provisions.

A. No permit shall be issued or conditional use application approved for a use defined as a large-scale development until the Community Development Director or hearings body (as applicable) determines that all applicable sections of this Code have been satisfied.

Staff Finding: This criterion will be met by a condition of approval.

• The "permit" referenced above is not the Site Design Review approval. Site Design review is not a permit, per se, but is the mechanism by which the Community Development Director or the hearings body determines satisfaction of the Code requirements. The Site Design Review process described below ensures this satisfaction, but that process does not directly permit the development, which still needs, in this case, a Type I Permit (a Permitted Use application) as well as grading permits, building permits, etc.

#### 16.192.030 Soil Suitability.

A. Unless the Community Development Director (Type I or Type II) or hearings body (Type III) determines that an adequate detailed soil survey has already been undertaken for the entire portion of the site proposed for development, the owner or developer shall have a new soil survey of the site prepared to determine if construction on the site would be hazardous to facilities on the parcel or to nearby property due to the load bearing capacity of the soils, the potential for wind or water erosion, or the wetness or slope characteristics of the soil.

Staff Finding: This criterion has been met.

• A geotechnical report which involved a soil survey was completed by Terra Associates, Inc.

#### 16.192.040 Stormwater Management.

The applicant shall submit a stormwater management plan, which shall meet the criteria of Chapter 16.140 of this Code, to the City of Warrenton Planning and Building Department for review for the proposed development that is prepared by a registered engineer currently licensed in the State of Oregon.

Staff Finding: This criterion is met.

• The submittal includes a SWMP as described above under Chapter 16.140.

# Chapter 16.208 Types of Applications and Review Procedures

#### 16.208.020 Description of Permit/Decision-Making Procedures.

- C. Type III Procedure (Quasi-Judicial). Type III decisions are made by:
  - 1. The Planning Commission after the mailing of a public notice and publication of notice of the hearing.

Staff Finding: These criteria are met.

• The mailing and publication of public notices of the hearing are described on Page 1.

#### 16.208.050 Type III Procedure (Quasi-Judicial).

A. <u>Pre-application Conference</u>. A pre-application conference is required for all Type III applications. The requirements and procedures for a pre-application conference are described in Section 16,208,070.

Staff Finding: This criterion is met.

• A pre-application conference was held on January 20, 2021. The pre-application conference memo is attached for reference.

#### B. Application Requirements.

- 2. <u>Content</u>. Type III applications shall:
  - e. Include an impact study for all Type III applications. The impact study shall quantify/assess the effect of the development on public facilities and services. The study shall address, at a minimum, the transportation system, including pedestrian ways and bikeways, the drainage system, the parks system, the water system, the sewer system, and the noise impacts of the development. For each public facility system and type of impact, the study shall propose improvements necessary to meet City standards and to minimize the impact of the development on the public at large, public facilities systems, and affected private property users.

Staff Finding: This criterion will be met by a condition of approval.

• The application packet does not contain an impact study as described by the code provision.

#### Chapter 16.212 Site Design Review

# 16.212.020 Applicability.

A. Site design review shall be required for all new developments and modifications of existing developments, except for regular maintenance, repair and replacement of materials (e.g., roof, siding, awnings, etc.), parking resurfacing, and similar maintenance and repair shall be exempt. This applies to all development within the city limits of Warrenton. Site design review ensures compliance with the basic development standards of the land use district (building setbacks, lot coverage, maximum building height, etc.), as well as the more detailed design standards and public improvement requirements in Divisions 2 and 3.

#### 16.212.040 Site Design Review.

- A. Application Review Procedure.
  - 1. <u>Site Design Review—Determination of Type II and Type III Applications</u>. Applications for site design review shall be subject to Type II or Type III review, based on the following criteria:
    - b. Commercial, industrial, public/semi-public, and institutional buildings (including building additions) with:
      - ii. More than 10,000 square feet of gross floor area or developing two or more acres of land shall be reviewed as a Type III application.

Staff Finding: This criterion is met.

- B. <u>Application Submission Requirements</u>. All of the following information (subsections (B)(1) through (7) of this section) is required for site design review application submittal:
  - 1. <u>Proposed Site Plan</u>. The site plan shall contain the following information:
    - a. The proposed development site, including boundaries, dimensions, and gross area.
    - b. Natural land features identified which are proposed to be removed or modified by the development, including modifications to existing drainage patterns.
    - c. The location and dimensions of all proposed public and private streets, drives, rights-of-way, and easements.
    - d. The location and dimensions of all existing and proposed structures, utilities, pavement and other improvements on the site. Setback dimensions for all existing and proposed buildings shall be provided on the site plan.
    - e. The location and dimensions of entrances and exits to the site for vehicular, pedestrian, and bicycle access.
    - f. The location and dimensions of all parking and vehicle circulation areas (show striping for parking stalls and wheel stops, as applicable), and proposed paving materials.
    - g. Pedestrian and bicycle circulation areas, including sidewalks, internal pathways, pathway connections to adjacent properties, and any bicycle lanes or trails.
    - h. Loading and service areas for waste disposal, loading and delivery.
    - i. Outdoor recreation spaces, common areas, plazas, outdoor seating, street furniture, and similar improvements.
    - j. Location, type, and height of outdoor lighting.
    - k. Location of mail boxes, if known.
    - *l.* Locations, sizes, and types of signs (shall comply with Chapter 16.144).
    - m. The Community Development Director may require studies or exhibits prepared by qualified professionals to address specific site features (e.g., traffic, noise, environmental features, site drainage, natural hazards, etc.).
    - n. The applicant's entire tax lot and the surrounding property to a distance sufficient to determine the location of the development in the City, and the relationship between the proposed development site and adjacent property and development. The property boundaries, dimensions and gross area shall be identified.
    - o. Identification of slopes greater than 10%.
    - p. The location, condition (paved, gravel unimproved, etc.) and width of all public and private streets, drives, sidewalks, pathways, rights-of-way, and easements on the site and adjoining the site.
    - *q.* Any areas identified as located in a designated floodplain and/or floodway.
    - r. Depict any wetland and riparian areas, streams and/or wildlife habitat areas.
    - s. Site features such as pavement, areas having unique views, and drainage ways, canals and ditches.

- t. Any designated historic and cultural resources areas on the site and/or adjacent parcels or lots.
- u. The location, size and type of trees and other vegetation on the property.
- v. North arrow, scale, names and addresses of all property owners.
- w. Name and address of applicant, project designer, engineer, architect, surveyor, and/or planner, if applicable.

Staff Finding: These criteria are met or will be met with conditions of approval.

- Studies and exhibits related to the project as noted under item "m" are included in the Submittal Package Appendices.
  - 2. <u>Architectural Drawings</u>. Architectural drawings shall be submitted showing the following information from subparagraphs a through c of this paragraph 2, and shall comply with Division 3:
    - a. Building elevations with building height and width dimensions.
    - b. Building materials, color and type.
    - c. The name of the architect or designer.

Staff Finding: These criteria are met.

- The information under items a-c is contained in the submittals for the subdivision.
  - 3. <u>Preliminary Grading Plan</u>. A preliminary grading plan prepared by a registered engineer shall be required for developments which would result in the grading (cut or fill) of 1,000 cubic yards or greater. The preliminary grading plan shall show the location and extent to which grading will take place, indicating general changes to contour lines, slope ratios, slope stabilization proposals, and location and height of retaining walls, if proposed. Surface water detention and treatment plans may also be required, in accordance with Chapter 16.140.

Staff Finding: This criterion will be met by a condition of approval.

- The application includes an excavation and grading plan as described above under Section 16.152.060. The condition will require approval by Public Works.
  - 4. <u>Landscape Plan</u>. A landscape plan is required and shall comply with Chapter 16.124.

Staff Finding: This criterion will be met by a condition of approval.

- The landscape plan requirement is discussed above under Section 16.124.070 New Landscaping.
  - 7. Letter or narrative report documenting compliance with the applicable approval criteria contained in subsection C of this section.

Staff Finding: This criterion is met.

- See the attached *Site Design Review Narrative Report*.
- C. <u>Review Criteria</u>. The Community Development Director shall make written findings with respect to all of the following criteria...
  - 1. The application is complete, as determined in accordance with Chapter 16.208 and subsection B of this section.

Staff Finding: This criterion will be met with conditions of approval.

- The application was deemed sufficiently complete for the purpose of site design review on July 3, 2021.
  - 2. The application complies with all of the applicable provisions of the underlying land use district (Division 2), including building and yard setbacks, lot area and dimensions, density and floor area, lot coverage, building height, building orientation, architecture, and other special standards as may be required for certain land uses.

Staff Finding: These criteria are met.

- The development standard provisions for commercial uses in the C-1 Zone are covered above under Section 16.40.040 and 16.40.050.
- Building orientation & architecture are covered above under Section 16.116.030 Architectural and Site Design Standards.

#### 16.212.060 Development in Accordance with Permit Approval.

Development shall not commence until the applicant has received all of the appropriate land use and development approvals (i.e., site design review approval) and building permits. Construction of public improvements shall not commence until the City has approved all required public improvement plans (e.g., utilities, streets, public land dedication, etc.). The City may require the applicant to enter into a development agreement (e.g., for phased developments and developments with required off-site public improvements), and may require bonding or other assurances for improvements, in accordance with Section 16.212.050.

Staff Finding: These criteria are met.

#### CONCLUSION, RECOMMENDATION, AND CONDITIONS OF APPROVAL

#### Conclusion and Recommendation

The findings above demonstrate that the proposed design of the Roby's Furniture Store development is generally consistent with the C-1 zoning district development standards and the design standards of the development code. Staff recommends the Planning Commission approve the site design review application subject to the following conditions.

#### Conditions of Approval

#### Within 60 days of conditional approval of the site design review:

- 1. Provide a landscape plan of street trees and the common areas as required by and compliant with Sections 16.124.070 and 16.124.080. The plan shall include planter strips as required by Section 16.136.020.J and Table 16.136.010.
- 2. Indicate locations of street lights on the site plan as required by Section 16.136.020.X.
- 3. Provide details on the site plan or on a separate plan the locations, type, and height of outdoor lighting to comply with Section 16.116.030.E.
- 4. Provide details on the site plan or on a separate plan the locations, sizes and types of signs.
- 5. Provide details on the exterior colors to be used, which shall be of low reflectance, subtle, neutral, or earth-toned colors.

- 6. Add an additional architectural feature to the south customer entrance to comply with Section 16.116030.C.
- 7. Incorporate at least two community amenities in the site plan as required by Section 16.116.030.D.
- 8. Designate a secure enclosure or room within the building for long-term bicycle parking, which shall accommodate roughly 25 percent of the bicycle space requirement.
- 9. Submit a Permitted Use/Type I application to the Community Development Department for the retail use.

# Prior to issuance of grading or building permits:

- 10. Provide a copy of the recorded lot line adjustment between Tax Lots 81027AB06400A01 & 81027AB01600 approved on June 9, 2021.
- 11. Record a public access easement covering the driveway if such easement was not required and recorded as part of the Tractor Supply development.
- 12. Provide to and receive approval from the City Engineer of a grading plan as required by Section 16.152.060.E.
- 13. The City-appointed engineer or the Director of Public Works must approve an erosion and sediment control plan.
- 14. Obtain a grading permit from the Building Official.
- 15. Provide to and receive approval from the City Engineer of an erosion and sediment control plan as required by Section 16.140.040.
- 16. The project contractor shall secure a permit for work in the public right of way in accordance with Warrenton Municipal Code.
- 17. Ensure that all required public facilities are in place or are guaranteed as required by Section 136.010.D.

## **General conditions:**

- 18. Developer shall comply with the comments and conditions contained in the Pre-Application Memo dated February 5, 2021, attached to this staff report and incorporated in the Conditions of Approval by reference.
- 19. Developer shall comply with the comments and conditions contained in the Warrenton Fire Department Pre-Application Memo dated February 5, 2021, attached to this staff report and incorporated in the Conditions of Approval by reference.
- 20. Developer shall comply with the General Notes and Comments provided by the Public Works Director in the *Roby's Furniture Planning Review Comments* dated August 5, 2021, attached to this staff report and incorporated in the Conditions of Approval by reference.

### ATTACHMENTS

- Site Design Review Application packet ("Complete Book Revised")
- Pre-Application Memo dated February 5, 2021
- Warrenton Fire Department Pre-Application Memo dated February 5, 2021
- Roby's Furniture Planning Review Comments dated August 5, 2021

# CITY OF WARRENTON PLANNING AND BUILDING DEPARTMENT

COMMERCIAL SITE BESIGN APPLICATION

To be accompanied by a Site Plan Map, copy of property deed and if applicable, a Letter of Authorization.

OFFIC	E USE ONLY
FILE #	FEE \$
ZONING DISTRICT_	<del></del> ;
RECEIPT #	
DATE RECEIVED_	

The site plan review process is a method for assuring compliance with the City of Warrenton Comprehensive Plan and Development Code, and to ensure wise utilization of natural resources, and the proper integration of land uses utilizing appropriate landscaping or screening measures. A commercial enterprise must also consider traffic circulation patterns, off-street parking, refuse containers, safe exit and entrance to the business, building height, dust control, future widening of major thoroughfares, and signs. Please answer the questions as completely as possible. Legal Description of the Subject Property: Township 8N, Range 10W, Section(s) 27, Tax Lot(s): East Portion of Lot 1 Trondheim Acres Property street address: East Portion Lot 1 Trondheim Acres, Warrenton, Oregon (Between Hwy 101 & Marlin Ave., on north side of Alt. Hwy 101) I/WE, THE UNDERSIGNED APPLICANT(S) OR AUTHORIZED AGENT, AFFIRM BY MY/OUR SIGNATURE(S) THAT THE INFORMATION CONTINED IN THE FOREGOING APPLICATION AND ASSOCIATED SUBMISSIONS IS TRUE AND CORRECT. APPLICANT: Printed Name: Kyle Langeliers \_\_\_\_\_ Signature: \_\_\_\_\_\_\_Date: \_\_\_\_\_ Address: \_\_\_5111 N Coast Highway \_\_\_\_ Phone: (503) 812-8267 City/State/Zip: Newport, OR 97365\_\_\_\_\_ Fax: PROPERTY OWNER (if different from Applicant): Printed Name: Warrenton Property Investments, LLC

E-mail Address: kyle@robysfurniture.com

Address: SAME AS APPLICANT

Signature:

commercial site design application
October 2018

Phone: SAME AS APPLICANT

City/State/Zip:SAME AS APPLICANT Fax:	
<ol> <li>In detail, please describe your proposal:         Site preparation, site development and new building improvements for a new furniture store on undeveloped property, in Trondheim Acres Commercial Development Subdivision. Site is located between Highway 101 of Marlin Avenue, on the north side of Alternate Hwy 101. See Narrative Report Attached.     </li> <li>Describe what type of business, commodity sold or manufactured, or service you are proposing. Retail sales of home furniture and appliances.</li> </ol>	
Current number of employees:9 Full time	
If yes, please list the business names and their addresses, and note these businesses on your site plan map. $N/A$	
4. Is there a residence or residences on this property? NO  If yes, please list the number of residences and please show these structures on your site plan map. N/A	
<ul> <li>5. Availability of services: City water: YES, City sewer: YES</li> <li>6. If you are an existing business, are materials or merchandise currently being stored on site?</li> </ul>	

	nere and how do you propose to store materials or merchandise for sale or processing?  Iterials and merchandise to be stored in WAREHOUSE built into rear of new store building.
7.	What percentage of the property is currently landscaped? Bare property partially filled in preparation for development.
	What percentage of the property do you propose to landscape as part of this project? 15%
8.	How do you intend to irrigate the existing and proposed landscaping? Manual methods by landscape
	contractor.
	Signs require the submittal of a separate application, which may be submitted in conjunction with this site plan application. ONLY BUILDING MOUNTED SIGNAGE IS PROPOSED.
10.	Please explain how you propose to provide for the drainage of this property, or explain why no additional drainage consideration is necessary. On site stormwater management facilities are proposed including roof downspouts, foundation drains, surface water catch basins, on-site stormwater quality treatment facilities and piping, discharging to existing open drainage ditch on south side of property. Ditch banks and bottom will be improved with proposed development for improved stormwater conveyance, aesthetics and maintenance.
11.	Please provide the type of development on the neighboring properties.
	North: IMMEDIATE LOT NORTH = VACANT. COMMERCIAL BUSINESSES FURTHER NORTH, South: RESIDENTIAL East: VACANT
	West: COMMERCIAL RETAIL ("Tractor Supply")
12.	Provide samples of the building materials for the exterior of the building with detail description of where each type and color will be used in the construction and finishing of the building. SEE ARCHITECTURAL ELEVATIONS SUBMITTED WITH NARRATIVE REPORT.
13.	Will all parking for your business be provided on the property? Yes_X_No All parking must be shown on your site plan map. If off-street parking is to be provided on another property, please attach a copy of the parking easement or agreement from the property owner; or will off-street parking be provided along the abutting street.
Co	How does this request comply with the Warrenton Development Code Chapter 16, Section 16.40 (General mmercial)? Retail furniture and appliance sales is a permitted C-I use. Proposed designs comply with all plicable City Development Standards, Design Standards and Other Applicable Standards. See attached site civil ANS and Narrative Report.
	Orientation of proposed building(s) (see Section 16.116.030 in the Warrenton Development Code)  commercial site design application
	October 2018

The proposed new building is situated with an EAST-WEST orientation parallel to Alt. Hwy 101, with an angled MAIN ENTRANCE FACING HWY 101 for optimal business exposure and visibility. A secondary side entrance is located on the south side of the building for easy accessibility to proposed parking facilities. The proposed main entrance faces inward toward the center of the developing Trondheim Acres Commercial Development, and at a 45-degree angle to the existing Tractor Supply store directly to the west.

16. Please address (on separate sheet of paper) all applicable sections of Design Standards (copy attached) out of the Warrenton Development Code. SEE ATTACHED NARRATIVE REPORT.

\*\*\*\*\*\*\*\*\*\*\*\*

# PLEASE UNDERSTAND THAT THIS APPLICATION WILL NOT BE OFFICIALLY ACCEPTED UNTIL DEPARTMENT STAFF HAS DETERMINED THAT THE APPLICATION IS COMPLETELY FILLED OUT AND THE SITE PLAN MAP REQUIREMENTS HAVE BEEN COMPLETED.

**Return Application To:** 

City of Warrenton
Planning and Building Department
PO Box 250
225 S. Main Street
Warrenton, Oregon 97146

Phone: 503-861-0920 Fax: 503-861-2351

# MAP INSTRUCTIONS AND CHECKLIST

\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*

A Site Plan Map, which shows all existing and proposed structures and parking areas, must accompany this application. The following checklist identifies the specific information which should be included on this map.
X_Title the map "Commercial Site Design".
X_The map may be drawn on 8 ½ x 11 or 8 ½ x 14 inch white paper.
X_Township, Range, Section and Tax Lot number of the subject property(ies) shall be included.
X_North arrow, date, and map scale in one inch intervals (1" = 20') shall be noted.
X_Shape, dimensions, and square footage of the parcel shall be shown. Draw the property line with a solid black line and label adjacent street(s), if any.
X_Identify existing and proposed easements with a dotted line.
X Identify the location and direction of all water courses and drainage ways, as well as the location of the 100-year floodplain, if applicable.
N/A Illustrate all existing buildings and their sizes

### **DISCLAIMER NOTICE:**

DISCLAIMER/NOTICE to
RECIPIENTS OF ELECTRONIC/DIGITAL VERSION of
ROBY'S FURNITURE & APPLIANCE STORE
City of Warrenton, Oregon
SITE DESIGN REVIEW APPLICATION
Submittal Package
June 3, 2021

Note: As required by the City of Warrenton, Roby's Furniture provided three (3) "hard" copies of required submittal materials, on June 3, 2021 via hand delivery by Kyle Langeliers. Each Submittal Package included, 1) a three ring binder with completed/signed forms, Narrative Report and other supporting reports and information, including reduced size copies of plans, and 2) a set of Full Size Plans. These hard copy documents included the correction of three minor typographical errors of plan drawing titles that were discovered after printing. Corrections of these typographical errors were made manually on the submitted "hard-copy" documents and may not be apparent in subsequent electronic/digital versions.

At the City's request, an electronic/digital version of submitted materials has been provided by the applicant, for City convenience of materials distribution. If you are a recipient of the electronic version, please be aware that the following discrepancies may exist between originally submitted "hard-copy" materials and the subsequent, electronic/digital version:

- 1) Signatures--Applicant signature on cover letter and forms may appear differently on electronic versions.
- 2) "EXISTING CONDITIONS AND TOPOGRAPHY" Drawing--Copy of drawing by Terra Calc Land Surveying should be labeled as "SHT C4.1".
- 3) "Drawing No: C6.1"--Title should read "SITE FILL, SURCHARGE & PRELOADING PLAN" (correction from "SITE EXCAVATION PLAN").
- 4) "ESCP BUILDING CONSTRUCTION" Drawing--Should be numbered as "Drawing No: C14.3" (Correction from C14.2).
- 5) Other potential formatting anomalies that might occur in electronic/digital file transfer, download or printing, beyond the control of the applicant.

If you should have any questions about the electronic/digital version you have received of the subject materials, please contact: Janice Weese, City of Warrenton, Building & Planning Department: e-mail, "buildingclerk@ci.warrenton.or.us"; phone: (503) 861-0920.

# Proposed ROBY'S FURNITURE & APPLIANCE STORE Warrenton, Oregon

City of Warrenton, Oregon
SITE DESIGN REVIEW APPLICATION
Submittal Package
June 3, 2021

<u>Owner:</u> Warrenton Property Investments, LLC, Newberg, Oregon

**Engineer:** Stricker Engineering, Garibaldi, Oregon

# Roby's/Warrenton Property Investments, LLC LETTERHEAD

June 3, 2021

Mr. Will Caplinger Interim City Planner City of Warrenton Planning Department P.O. Box 250 Warrenton, Oregon, 97146-0250

RE: Proposed Roby's Furniture Store, Trondheim Acres/Site Design Review Application

Dear Mr. Caplingers

This letter is submitted to the City of Warrenton on behalf of Warrenton Property Investments, LLC in request of Site Design Review for the above referenced Roby's Furniture Store development. We initially presented project concepts at a project Pre-Application Meeting, January 20, 2021 and received comments from City staff February 5, 2021. This letter covers a comprehensive submittal package that includes informational materials supporting both. 1) a Site Design Review Application, and 2) a Grading/Removal/Fill Permit Application. Completed forms for both of these permit applications follow.

This site is part of the previously approved Trondheim Acres Commercial Development. It involves low-lying land that requires structural fill and site surcharge/preloading to pre-consolidate subsurface soils and raise grades in preparation for site development. The overall site property owner. Warrenton Fiber Company, has previously obtained US Army Corps of Engineers and Oregon DSL Permits allowing filling of the site. The site has been partially filled but additional fill is required to raise the site above the 12.0 FEMA Flood Hazard Elevation. As part of the recent Tractor Supply development approval process. A.M. Engineering previously completed a stormwater management plan that

addressed the stormwater/drainage interests of this site. Engineering for this application references and builds on this prior site related documentation.

Roby's intends to construct initial earthwork for proposed site improvements in two phases. The first phase involves surcharging/preloading of proposed store building area and the second involves surcharging/preloading of the surrounding paved drive/parking areas. Proposed on-site stormwater treatment facilities incorporate Contech's StormFilter BMP technology, with flow-through drainage being routed into an existing open dirch at the south side of the property.

Complete engineering plans are being submitted as part of subject applications for the site civil design elements of the project. Designs for the proposed store building have also been completed with the intent that application for a Building Permit will be filed immediately upon City of approval of proposed site improvement designs. In completing project designs, our engineers (Stricker Engineering) have followed the City's site design standards for commercial developments in an attempt to meet all City requirements. As we will be constructing the project with sole source construction contractors, certain details of the project will be finalized by design/build process as the project progresses. Never the less, project designs have been developed to the level necessary to appropriately show intent and commitment to follow applicable City Codes and Standards.

One area our designers did struggle with is that associated with City waste management truck maneuvering. Because of our desire to construct a standardized Roby's Furniture Store floor plan we have essentially maximized the use of the site and our options for siting a fenced refuse area are limited. The area we are proposing is located in the southeast corner of the building and it requires a turning maneuver that is slightly beyond the City's standardized parameters. Normal delivery trucks will enter the property off of the northerly Private Drive via a truck entrance at the northeast corner of the site and they will depart through the main west entrance. To minimize undesirable

maneuvering. City waste hauling trucks will need to enter the site through the main west entrance and then swing wide to make a sharp 90-degree left turn to approach the Refuse Area. Our hope is that the City will recognize our site constraints and approve this location.

To our knowledge, all other aspects of the design fully comply with the City's established design standards. Our attached Site Design Review Narrative Report Submittal Package addresses all comments provided by City staff in above referenced Pre-Application Meeting response letters. Reduced-size project plans are included with this reporting. Full size project plans are also attached separately for you reference and use.

Thank you for your receipt and review of this application. Roby's Furniture is excited at the prospect of opening a new store in the City of Warrenton. We will anticipate your confirmation of completeness and will promptly address any deficiencies you may discover. Please let us know if we may provide any additional information to aid in your review. We look forward to your comments.

Respectfully submitted.

Kyle Langeleirs

Warrenton Property Investments, LLC Dba Roby's Furniture & Appliance

## Roby's/Warrenton Property Investments, LLC LETTERHEAD

June 3, 2021

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Interim City Planner
City of Warrenton Planning Department
P.O. Box 250
Warrenton, Oregon, 97146-0250

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Respectfully submitted,

Kyle Langeleirs

Warrenton Property Investments, LLC Dba Roby's Furniture & Appliance

## LIST OF CONTENTS

# Site Design Review Application and Excavation & Grading Permit Application Submittal Package, June 3, 2021

# PROPOSED ROBY'S FURNITURE & APPLIANCE STORE, Warrenton, Oregon (East Portion of Trondheim Acres Lot 1)

- I. Cover Letter (Precedes)
- II. LIST OF CONTENTS (This Page)
- III. Community & Economic Development Department, Permit Checklist
- IV. Site Design Review Application FORM
- V. Excavation and Grading Permit Application FORM
- VI. Site Design Review Narrative Report, Proposed Roby's Furniture & Appliance Store (Stricker Engineering, May 2021) with APPENDICES:
  - a. Stormwater Management Plan, Proposed Roby's Furniture & Appliance Store, Technical Memorandum (Stricker Engineering, May 2021)
  - b. Utilities (Water, Sewer, Electrical, Communications, Natural Gas and Fire), Proposed Roby's Furniture & Appliance Store, Technical Memorandum (Stricker Engineering, May 2021)
  - c. Excavation & Grading Plan, Proposed Roby's Furniture & Appliance Store, Technical Memorandum (Stricker Engineering, May 2021)
  - d. Landscape Plan (Stricker Engineering, May 2021)
  - e. Architectural Drawing, Proposed Roby's Furniture & Appliance Store Technical Memorandum (Stricker Engineering, May 2021)
  - f. Geotechnical Report, Proposed Roby's Furniture & Appliance Store Technical Memorandum (Terra Associates, Inc., April 2021)
  - g. "Land Use Compatibility Statement for Roby's Furniture Project", City of Warrenton Letter to DEQ, May 12, 2021
  - h. U.S. Army Corps of Engineers, Permit No. NWP-2007-745, Warrenton Fiber Company, September 10, 2009
  - i. Oregon DSL, Wetland Fill Permit, Permit No: 38988-FP Renewal, Expiration Date, August 7, 2021, Warrenton Fiber Company
  - j. Pre-Application Meeting (Roby's Furniture & Appliance, January 20, 2021) Comment Letter, City of Warrenton, February 5, 2021, Scott Hess, Community Development Director

- k. Pre-Application Meeting (Roby's Furniture & Appliance, January 20, 2021) Comment Memorandum, Warrenton Fire Department, February 5, 2021, Brian Alsbury, Fire Chief
- I. Civil Site Design Plans/Abbreviated Set—Reduced Size (11" X 17")
- VII. Civil Site Design Plans (Full Size, Complete Set), *Proposed Roby's Furniture*Store (Stricker Engineering, May 2021)



# Community & Economic Development Department

## **Permit Checklist**

## June 2019

The following is a general checklist that applies to all Community & Economic Development Department submittals. The checklist is intended to assist prospective applicants with navigating the permit process. In each case, there may be additional submittal requirements that are identified in the pre-application notes.

The burden of proof rests with the applicant to demonstrate compliance with applicable portions of the Development Code.

M	Signed Application & Fee (Site Design Review, Conditional Use, Variance, etc)
TY	Site Plan (3 copies   11 x 17 or larger to scale)
Ø	Landscape & Parking Plan (if not indicated on site plan)
V	Engineering Review Form & Deposit
U	Self-addressed, stamped envelopes for public notice (Type 2 & Type 3)
	Impact Study (Type 2 & Type 3)
	Pre-application Notes Response Letter
<b>U</b>	Narrative of findings that addresses applicable criteria
19	Preliminary utility and stormwater plan

After all materials have been verified, a completeness letter will be issued with a basic timeline for review. After completion, public notice will be published and mailed to the affected property owners and agencies.

The checklist itself is a requirement and must be submitted and date stamped by city staff.

# CITY OF WARRENTON PLANNING AND BUILDING DEPARTMENT

CONTACTOR CONTRACTOR DON'T

City State / ip: SAME AS APPLICANT

East =

73.43.34 - 23.35.35	PONING DISTRICT
To be accompanied by a Site Plan Map, copy of property deed and if applicable, a Letter of Authorization.	RITTET :
	DATE RECEIVED
The site plan review process is a method for assuring compliance wand Development Code, and to ensure wise utilization of natural resultilizing appropriate landscaping or screening measures. A commer circulation patterns, off-street parking, refuse containers, safe exists dust control, future widening of major thoroughfares, and signs. Plepossible.	sources, and the proper integration of land uses relal enterprise must also consider traffic and entrance to the business, building height.
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I/WE, THE UNDERSIGNED APPLICANT(S) OR AUTHORIZ SIGNATURE(S) THAT THE INFORMATION CONTINED IN ASSOCIATED SUBMISSIONS IS TRUE AND CORRECT.	
APPLICANT:	
Printed Name: Kyle Langeliers	
Signature: 38 C	Date: 5/28/21
Address: 5111 N Coust Highway Phone: (503) 812-8267	
City State Zip: Newport, OR 97365 Fax:	
PROPERTY OWNER (if different from Applicant):	
Printed Name: Warrenton Property Investments, LLC	
Signature: SS	Date: 5/28/21
Address: SAME AS APPLICANT Phone: SAME 2	AS APPLICANT
1-mail Address: kyle a robysfirmiture.com	

# CITY OF WARRENTON PLANNING AND BUILDING DEPARTMENT

COMMERCIAL SITE BESIGN APPLICATION

To be accompanied by a Site Plan Map, copy of property deed and if applicable, a Letter of Authorization.

OFFI	CE USE ONLY
FILE #	FEE \$
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PROPERTY OWNER (II directent from Applicant).

Printed Name: Warrenton Property Investments, LLC

Signature:

E-mail Address: kyle@robysfurniture.com

Address: SAME AS APPLICANT

commercial site design application October 2018

Phone: SAME AS APPLICANT

1. In detail, please describe your proposal: Site preparation, site development and new building improvements for a new furniture store on undeveloped property, in Trondheim Acres Commercial Development Subdivision. Site is located between Highway 101 and Marlin Avenue, on the north side of Alternate Hwy 101. See Narrative Report Attached.  2. Describe what type of business, commodity sold or manufactured, or service you are proposing. Retail sales of home furniture and appliances.  Current number of employees:  Projected number of customers per day  Projected number of customers per day  Number of shipments/deliveries per day  Per week  By what method will these be arriving/sent?  Small Freight tracks  3. Does this property have an existing business or businesses? NO  If yes, please list the business names and their addresses, and note these businesses on your site plan map. N/A  4. Is there a residence or residences on this property? NO  If yes, please list the number of residences and please show these structures on your site plan map. N/A		nte/Zip:SAME AS APPLICANT
Current number of employees:  Projected number of customers per day  14 to 15  Days of operation  Number of shipments/deliveries per day  By what method will these be arriving/sent?  Small Freight trucks  Small Freight trucks  Does this property have an existing business or businesses? NO  If yes, please list the business names and their addresses, and note these businesses on your site plan map.  If yes, there a residence or residences on this property? NO	Site pre propert	paration, site development and new building improvements for a new furniture store on undeveloped y, in Trondheim Acres Commercial Development Subdivision. Site is located between Highway 101 and
Current number of employees: 9 Full time Projected number of customers per day 14 to 15 Days of operation Monday thru Saturday Hours of operation 9am - 6pm Number of shipments/deliveries per day per week 3 By what method will these be arriving/sent? Small Freight trucks  Does this property have an existing business or businesses? NO  f yes, please list the business names and their addresses, and note these businesses on your site plan map.  Is there a residence or residences on this property? NO		
Is there a residence or residences on this property? NO	. Do	Current number of employees:9 Full time
	-/4	please list the business names and their addresses, and note these businesses on your site plan map.
		A Section Control of the Control of
5. Availability of services: City water: YES, City sewer: YES  6. If you are an existing business, are materials or merchandise currently being stored on site?		

	nere and how do you propose to store materials or merchandise for sale or processing?  Iterials and merchandise to be stored in WAREHOUSE built into rear of new store building.
7.	What percentage of the property is currently landscaped? Bare property partially filled in preparation for development.
	What percentage of the property do you propose to landscape as part of this project? 15%
8.	How do you intend to irrigate the existing and proposed landscaping? Manual methods by landscape
	contractor.
	Signs require the submittal of a separate application, which may be submitted in conjunction with this site plan application. ONLY BUILDING MOUNTED SIGNAGE IS PROPOSED.
10.	Please explain how you propose to provide for the drainage of this property, or explain why no additional drainage consideration is necessary. On site stormwater management facilities are proposed including roof downspouts, foundation drains, surface water catch basins, on-site stormwater quality treatment facilities and piping, discharging to existing open drainage ditch on south side of property. Ditch banks and bottom will be improved with proposed development for improved stormwater conveyance, aesthetics and maintenance.
11.	Please provide the type of development on the neighboring properties.
	North: IMMEDIATE LOT NORTH = VACANT. COMMERCIAL BUSINESSES FURTHER NORTH, South: RESIDENTIAL East: VACANT
	West: COMMERCIAL RETAIL ("Tractor Supply")
12.	Provide samples of the building materials for the exterior of the building with detail description of where each type and color will be used in the construction and finishing of the building. SEE ARCHITECTURAL ELEVATIONS SUBMITTED WITH NARRATIVE REPORT.
13.	Will all parking for your business be provided on the property? Yes_X_No All parking must be shown on your site plan map. If off-street parking is to be provided on another property, please attach a copy of the parking easement or agreement from the property owner; or will off-street parking be provided along the abutting street.
Co	How does this request comply with the Warrenton Development Code Chapter 16, Section 16.40 (General mmercial)? Retail furniture and appliance sales is a permitted C-I use. Proposed designs comply with all plicable City Development Standards, Design Standards and Other Applicable Standards. See attached site civil ANS and Narrative Report.
	Orientation of proposed building(s) (see Section 16.116.030 in the Warrenton Development Code)  commercial site design application
	October 2018

The proposed new building is situated with an EAST-WEST orientation parallel to Alt. Hwy 101, with an angled MAIN ENTRANCE FACING HWY 101 for optimal business exposure and visibility. A secondary side entrance is located on the south side of the building for easy accessibility to proposed parking facilities. The proposed main entrance faces inward toward the center of the developing Trondheim Acres Commercial Development, and at a 45-degree angle to the existing Tractor Supply store directly to the west.

16. Please address (on separate sheet of paper) all applicable sections of Design Standards (copy attached) out of the Warrenton Development Code. SEE ATTACHED NARRATIVE REPORT.

\*\*\*\*\*\*\*\*\*\*\*

# PLEASE UNDERSTAND THAT THIS APPLICATION WILL NOT BE OFFICIALLY ACCEPTED UNTIL DEPARTMENT STAFF HAS DETERMINED THAT THE APPLICATION IS COMPLETELY FILLED OUT AND THE SITE PLAN MAP REQUIREMENTS HAVE BEEN COMPLETED.

**Return Application To:** 

City of Warrenton
Planning and Building Department
PO Box 250
225 S. Main Street
Warrenton, Oregon 97146

Phone: 503-861-0920 Fax: 503-861-2351

# MAP INSTRUCTIONS AND CHECKLIST

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A Site Plan Map, which shows all existing and proposed structures and parking areas, must accompany this application. The following checklist identifies the specific information which should be included on this map.
X_Title the map "Commercial Site Design".
X_The map may be drawn on 8 ½ x 11 or 8 ½ x 14 inch white paper.
X_Township, Range, Section and Tax Lot number of the subject property(ies) shall be included.
$X_N$ orth arrow, date, and map scale in one inch intervals (1" = 20') shall be noted.
X Shape, dimensions, and square footage of the parcel shall be shown. Draw the property line with a solid black line and label adjacent street(s), if any.
X_Identify existing and proposed easements with a dotted line.
X Identify the location and direction of all water courses and drainage ways, as well as the location of the 100-year floodplain, if applicable.
N/A Illustrate all existing buildings and their sizes.

X_Illustrate all proposed new construction with dashed lines (include dimensions).
X Illustrate parking area with number of spaces and access drive areas. If off-street parking is to be provided, even in part, on another property, please show its location on your site plan map, and attach a copy of the parking easement or agreement from the adjoining property owner.
_X Illustrate the entrance and exit points to the property, pattern of traffic flow, loading and unloading area, sidewalks and bike paths.
_X Illustrate the existing or proposed location, height, and material of all fences and walls.
_X Illustrate existing or proposed trash and garbage container locations, including type of screening.
_X Name of the person who prepared the map.
_X_Location, type and height of outdoor lighting.
_X Location of mailboxes if known.
_X Locations, sizes, and types of signs (shall comply with Chapter 16.144 of the Warrenton Development Code).
_X Map shall show entire tax lot plus surrounding properties.
_X Identification of slopes greater than 10%.
_X location, condition and width of all public and private streets, drives, sidewalks, pathways, right-of-ways, and easements on the site and adjoining the site.
_X Identify designated flood hazard area(s).
_X Show wetland and riparian areas, streams and/or wildlife areas.
_X Any designated historic and cultural resources areas on the site and/or adjacent parcels or lots.
_X Location, size and type of trees and other vegetation on the property.

ARRENTO	

# GRADING/REMOVAL/FILL PERMIT

# PLANNING & BUILDING DEPARTMENT 225 S MAIN AVE., PO Box 250 WARRENTON, OR 97146

FOR	DEPAR	IMENT	USE	ONLY
PERM				
PERM	NI 1 #1			

PERMIT # Issued Date: Issued By:

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Please note ditches & swale	s on site map. If we	etlands are on property, a	DSL permit is req	uired and must be
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# Proposed ROBY'S FURNITURE & APPLIANCE STORE Warrenton, Oregon

SITE DESIGN REVIEW NARRATIVE REPORT June 3, 2021

<u>Owner:</u> Warrenton Property Investments, LLC, Newberg, Oregon

<u>Engineer:</u> Stricker Engineering, Garibaldi, Oregon





Garibaldi, Oregon 97118 john@strickerengineering.com

503-322-2442



# SITE DESIGN REVIEW NARRATIVE REPORT

May 20, 2021

# PROPOSED ROBY'S FURNITURE & APPLIANCE STORE, Warrenton, Oregon (East Portion of Trondheim Acres Lot 1)

By: David Leibbrandt, P.E., Stricker Engineering

## 1.0 General/Project Introduction

1.1 Purpose-- Roby's Furniture is proposing to build a new retail furniture store on the east portion of Lot 1, Trondheim Acres, in the City of Warrenton, Oregon. As a Commercial Development involving more than 10,000 square feet of gross floor space, this development is submitted for approval as a Type III Application. This Narrative Report is prepared as the summarizing submittal document, applying for Site Design Review, under the requirements of the City of Warrenton, Municipal Development Code, 16.212.040.

1.2 Supporting Documents—Complete full-size civil site design plans are being submitted separately as part of this Site Design Review Application package. Other related documents required as part of the Site Design Review Application process are referenced herein and accompany this Report Narrative. These include:

- a. Stormwater Management Plan, Proposed Roby's Furniture & Appliance Store, Technical Memorandum (Stricker Engineering, May 2021)
- b. Utilities (Water & Fire, Sewer, Electrical, Communications & Natural Gas), Proposed Roby's Furniture & Appliance Store, Technical Memorandum (Stricker Engineering, May 2021)
- c. Excavation & Grading Plan, Proposed Roby's Furniture & Appliance Store, Technical Memorandum (Stricker Engineering, May 2021)
- d. Landscape Plan (Stricker Engineering, May 2021)
- e. Architectural Drawing, Proposed Roby's Furniture & Appliance Store Technical Memorandum (Stricker Engineering, May 2021)
- f. Geotechnical Report, Proposed Roby's Furniture & Appliance Store Technical Memorandum (Terra Associates, Inc., April 2021)
- g. "Land Use Compatibility Statement for Roby's Furniture Project", City of Warrenton Letter to DEQ, May 12, 2021

- h. U.S. Army Corps of Engineers, Permit No. NWP-2007-745, Warrenton Fiber Company, September 10, 2009
- i. Oregon DSL, Wetland Fill Permit, Permit No: 38988-FP Renewal, Expiration Date, August 7, 2021, Warrenton Fiber Company
- j. Pre-Application Meeting (Roby's Furniture & Appliance, January 20, 2021) Comment Letter, City of Warrenton, February 5, 2021, Scott Hess, Community Development Director
- k. Pre-Application Meeting (Roby's Furniture & Appliance, January 20, 2021) Comment Memorandum, Warrenton Fire Department, February 5, 2021, Brian Alsbury, Fire Chief
- I. Reduced Sized Drawings, 11" X 17"—Abbreviated Set

1.3 Report Narrative Format—This Narrative Report follows the outline included in 16.212.040.B. Application Submission Requirements, using the same lettered requirement designations for easy tracking.

## 2.0 Application Submittal Requirements

As required by 16.212.040, the following information is provided for City Site Design Review:

A. Proposed Development Site: "The proposed development site, including boundaries, dimensions, and gross area."

Trondheim Acres, owned by Warrenton Fiber Company, is a 16.46 acre commercial property development located generally between US Highway 101 and Marlin Avenue, just north of Alternative Highway 101. The west portion of Lot 1 Trondheim Acres has been previously developed with the recent completion of the new Tractor Supply Store. The east portion of Lot 1 is vacant, cleared and mostly filled and leveled and has previously been approved for commercial development.

As part of the previous Tractor Supply project, a private access road loop was constructed that extends north off of Alternative Hwy 101 about 250 feet, then turns and connects into Marlin Avenue about 500 feet east. These two existing roads referred to herein as Private Drive (north-south) and Private Drive (east-west) define the westerly and northerly sides of the site and Alternative Hwy 101 defines the south side.

Existing sidewalks have been constructed on the east side of the (north-south) Private Drive and the south side of the (east-west) Private Drive. An existing north-south property line, approximately 334 ft east of the west-side "back-of-sidewalk", establishes the easterly boundary of the property. At the time of this writing, the legal partitioning of the subject east portion of Lot 1 is in process. It is expected that the west and north property boundaries of the subject property will be at or very near the current "back-of-sidewalk" described above.

Site dimensions: Approximately 334-ft (E-W) X 214 ft (N-S).

Site Gross Area: 71,500 square feet (1.64 acres)

## SEE SITE PLAN IN APPENDIX I.

B. Natural Land Features: "Natural land features which are proposed to be removed or modified by the development, including modifications to existing drainage patterns.

The project site has previously been partially filled and leveled in accordance with terms of U.S. Army Corps of Engineers and Oregon Department of State Lands Wetlands and Removal/Fill permits secured by Warrenton Fiber Company. An existing drainage ditch occupies the south edge of the property fronting Alternative Highway 101. Existing site vegetation is limited primarily to grasses with some brush and small trees existing along the south drainage ditch.

The existing parcel has previously been partially filled and leveled with crushed rock. The existing surface of the property is fairly flat, with elevations generally ranging between 7.5 feet and 9.5 feet. Proposed development includes the addition of more granular structural fill material to bring grades to the level necessary to support a finished floor level of the proposed new building at 13.5 feet, a paved parking area ranging between about 12 feet and 13 feet elevation and a loading area ranging between about 9.5 feet and 10 feet.

Preloading of the entire site with additional temporary surcharge material is required for pre-consolidation of subsurface soils to achieve suitable foundation conditions for proposed new construction. Proposed structural fill will raise existing grades to match recently constructed sidewalk grades on the north and west sides of the property.

A low "Eco-Block" retaining wall is proposed along the easterly side of the property, and a dry-stacked large boulder retaining wall is proposed along the north bank of the existing drainage ditch. With the completion of this retaining wall, the existing ditch bottom will be regraded with native soil for improved drainage. For improved aesthetics and future maintenance, the sloped south bank of the existing drainage ditch will be "dress graded" and both the ditch bottom and south bank will be reseeded with native species grasses. The general alignment of the existing ditch will remain unchanged. Bottom regrading is designed with a uniform 6-foot width similar to existing conditions and a continuous slope of about 0.0025 ft/ft. Existing brush and small trees will be removed from the north bank as part of rock retaining wall construction.

SEE SITE PLAN, EXISTING CONDITIONS, SITE GRADING AND DRAINAGE PLAN EXCAVATION AND GRADING PLAN IN APPENDIX I AND PHOTO PLATES IN APPENDIX M.

C. Proposed Public and Private Streets. Drives. Rights-of-way and Easements: "The location and dimensions of all proposed public and private streets, drives, rights-of-way, and easements."

No new public or private streets or rights-of-way are included with the project. Two private drives will provide: 1) access for delivery trucks entering the site from the northwest corner, and 2) access for customers entering the site from the west. SEE SITE PLAN IN APPENDIX I.

D. Existing and Proposed Improvements: "The location and dimensions of all existing and proposed structures, utilities, pavement and other improvements on the site. Setback dimensions for all existing and proposed buildings shall be provided on the site plan."

There are currently no existing structures or paved areas or other improvements on the site. The only existing utility on-site is a short sewer stub-out left into the subject property, as part of recently constructed (east-west) Private Drive street and utility improvements.

There are reportedly no minimum building setback requirements for the site per City Code. Provided setbacks are as follows:

North Property Line to Building--Approximately 5 feet

West Property Line to Building--Approximately 10 feet

East Property Line to Building (Loading Dock)--Approximately 20-feet

South Property Line to building--108-feet

SEE SITE PLAN AND SITE DRAINAGE AND GRADING PLAN IN APPENDIX I.

E. Entrances and Exits: "The location and dimensions of entrances and exits to the site for vehicular, pedestrian, and bicycle access."

Two new entrances/exits are proposed for the site, a one-way truck entrance off of the above noted (east-west) Private Drive and a two-way main customer entrance/exit off of the above noted (north-south) Private Drive. SEE SITE PLAN IN APPENDIX I.

F. Parking and Vehicle Circulation: "The location and dimensions of all parking and vehicle circulation areas (show striping for parking stalls and wheel stops, as applicable), and proposed paving materials."

An aspaltic concrete (A.C.) parking lot is proposed with the above noted one-way truck entrance oriented in the northwest corner and a main customer entrance oriented on the west side of the site. A loading dock is proposed at the back end (east end) of the new building.

Normal deliveries will be via small approximately 32-foot long delivery "box" trucks that will primarily access the north side of the loading dock. Occasional (estimated weekly) deliveries by larger tractor-trailer delivery trucks will be made at the south side of the loading dock. Two loading spaces are provided at each of the north and south side loading dock areas. The easterly loading area is graded lower than the westerly main parking area so as to provide trailer-level "dock-high" loading operations at the loading dock (dock level is 4-feet higher than the loading area driveway surface). Site geometry accommodates maneuvering needs of expected delivery trucks. Delivery trucks leaving the site will exit via the main west parking

lot entrance/exit. An immediate left turn will position departing trucks at an existing stop sign on Alternative Highway 101 for entry onto the adjacent highway.

City trash and recyling trucks will enter the site from the west main entrance and turn left at the far east end of the parking area to approach the refuse enclosure area at the southeast corner of the building. Trash trucks can then proceed around the back of the building to exit the site via the back truck entrance.

Customers will enter and exit the parking lot from the main west entrance. Two isles of parking are proposed with both standard and compact parking spaces being provided. Two Handicapped Parking spaces are provided on the north parking isle adjacent to the south-side store entrance. An ample-width central east-west oriented drive provides for safe vehicle maneuvering and parking and safe customer foot-traffic access to the building's south entrance.

## SEE SITE PLAN AND TRUCK MANEUVERING/TRACKING DIAGRAM IN APPENDIX I.

G. Pedestrian and Bicycle Circulation Areas: "Pedestrian and bicycle circulation areas, including sidewalks, internal pathways, pathway connections to adjacent properties, and any bicycle lanes or trails."

The existing site is surrounded on the west and north by new sidewalks constructed as part of previous Trondheim Acres development improvements. So as to achieve optimal business exposure to U.S. Highway 101 to the west, the proposed new Roby's Furniture store is positioned closest to the northwest corner of the property, approximately five feet in from the northerly sidewalk and approximately 10-feet in from the westerly sidewalk. New perimeter sidewalks are proposed around and directly against, west and south sides of the new building, enabling free pedestrian movement around the new building and the site. An expanded sidewalk-level open plaza area is proposed outside the main northwest corner store entrance, where bicycle parking facilities will be provided. A short stretch of sidewalk/pedestrian landing is proposed on the north side of the building, primarily for employee and maintenance access. A step down is provided at the east end of the south sidewalk for employee access to south-side refuse receptacles. ADA sidewalk ramp access is provided at both the main northwest entrance and the south side entrance.

#### SEE SITE PLAN AND LANDSCAPE PLAN IN APPENDIX I.

H. Loading and Service Areas: "Loading and service areas for waste disposal, loading and delivery."

As noted above, a loading dock is proposed at the back end (east end) of the new building to facilitate normal small truck deliveries and occasional (estimated weekly) deliveries by larger tractor-trailer delivery trucks. Smaller trucks will normally stage at the north side of the loading dock, leaving the south side available for larger trucks. The easterly loading area is graded lower than the westerly main parking area so as to provide trailer-level "dock-high" loading operations at the loading dock. An enclosed refuse dumpster area is proposed at the southeast corner of the new building (outside the south wall), at the lower elevation level, just around

the corner from the loading dock. City waste and recycling trucks can use the main west entrance and the turn left to approach the refuse/dumpster area face on. They will likely depart continuing north around the back of the building, exiting through the northeast corner truck entrance. Large trucks will be required to enter the site from the northeast corner truck entrance and depart the site through the main west entrance/exit. SEE SITE PLAN AND TRUCK MANEUVERING/TRACKING DIAGRAM IN APPENDIX I.

I. Outdoor Common Areas "Outdoor recreation spaces, common areas, plazas, outdoor seating, street furniture, and similar improvements."

An expanded sidewalk-level open plaza area is proposed outside the main northwest corner store entrance, where bicycle parking facilities will be provided. SEE SITE PLAN AND LANDSCAPE PLAN IN APPENDIX I.

I. Outdoor Lighting: "Location, type, and height of outdoor lighting."

Exterior site lighting will be provided for site security, public safety, customer night-time shopping convenience and loading dock area visibility. High-position exterior light fixtures will be provided on the north and south sides of the building. South facing building-mounted lights will light the south-side sidewalk and adjacent north parking isle. Because of the close proximity of the north side of the building to the existing northerly sidewalk, north-side building mounted lights will provide ample lighting out to that street frontage. Exterior recessed lighting under the front main building entrance awning will light the entrance plaza area. Overhead building-mounted lights will light the rear loading dock area.

Lighting from building-mounted light fixtures will be supplemented with an ample distribution of ground-level/pedestal supported exterior light standards. These standards will be situated in each of the site's ten west-side and south-side planter isles. South-side planter isle lights are expected to provide ample lighting across the existing open ditch for site security and public safety. Preliminary dimensions and proposed styling for these exterior light standards is shown on the drawings.

Proposed lighting layouts and preliminary details for planned exterior lighting features are shown on project plans. Electrical power sourcing and circuit protection is planned to be provided in load center equipment located in the new building's main electrical/mechanical room. It is proposed that detailed illumination design, meeting all requirements of the City Development Code be provided by Design/Build (D/B) electrical contractor as part of general construction.

Separate street lighting along the existing (east-west) Private Drive and (north-south) Private Drive was not included with original road construction or the recent Tractor Supply development and none is currently present. Street lighting separate from that described above is not contemplated at this time. If additional street lighting should be required by the City, such will be coordinated with PP&L as part of planned lighting D/B construction.

SEE SITE PLAN AND SITE LIGHTING PLAN IN APPENDIX I.

K. Mail Boxes Proposed: "Location of mail boxes if known."

### TO BE DETERMINED

L. Signs: "Locations, sizes, and types of signs (shall comply with Chapter 16.144)"

All proposed store signage is planned to be building mounted, per Roby's Furniture Store company standard. Sample photos are provide for reference. SEE PHOTO PLATES IN APPENDIX M.

M. Special Studies "The Community Director may require studies or exhibits prepared by qualified professionals to address specific site features (e.g., traffic, noise, environmental features, site drainage, natural hazards, etc."

In accordance with January 20, 2021 project Pre-application Meeting discussions and related City comment letter (Scott Hess, February 5,2021), the following special studies have been provided as noted above:

- \* Stormwater Management Plan, Technical Memorandum, (Stricker Engineering, May 2021)-- SEE APPENDIX A.
- \* Utilities (Water & Fire, Sewer, Electrical, Communications and Natural Gas), Proposed Roby's Furniture & Appliance Store, Technical Memorandum (Stricker Engineering, May 2021)-- SEE APPENDIX B.
- \* Excavation and Grading Plan, Technical Memorandum (Stricker Engineering, May 2021)-- SEE APPENDIX C.
  - \* Landscape Plan, (Stricker Engineering, May 2021--SEE APPENDIX D.
  - \* Geotechnical Report (Terra Associates, Inc., April 2021)--SEE APPENDIX F.

Environmental interests have been addressed as part of previous U.S. Army Corps of Engineers and Oregon Department of State Lands Wetlands and Removal/Fill permit application processes completed by overall site owner/developer, Warrenton Fiber Company. Copies of prior permits are included with the above referenced Site Excavation and Grading Plan. SEE APPENDIX H AND APPENDIX I.

Traffic impacts are expected to be nominal due to anticipated relatively low customer traffic volume. Thus, the demand for a special traffic impact study is not anticipated. SEE ROBY'S CUSTOMER/TRAFFIC COUNT ANALYSISIN APPENDIX O.

N. Tax Lot and Surrounding Property. "The applicants entire tax lot and the surrounding property to a distance sufficient to determine the location of the development in the City, and the relationship between the proposed development site and adjacent property and development. The property boundaries, dimensions and gross area shall be identified."

The subject property is located in Warrenton, Oregon, Township 8 North, Range 10 West, Sections 27, Willamette Meridian at latitude, 46.153934 degrees north and longitude, 123.906084 degrees west Tax ID No. 81027AB06400. The subject property's lot partitioning process in currently underway, with the lot currently being referred to as the East Portion of Lot 1 Trondheim Acres.

As part of the recent Tractor Supply project, a private access road loop was constructed that extends north off of Alternative Hwy 101 about 250 ft, then turns and connects into Marlin Avenue about 500 ft east. These two existing roads referred to herein as Private Drive (north-south) and Private Drive (east-west) define the westerly and northerly sides of the site and Alternative Hwy 101 defines the south side. Existing sidewalks have been constructed on the east side of the (north-south) Private Drive and the south side of the (east-west) Private Drive. An existing north-south property line, approximately 334 ft east of the west-side "back-of-sidewalk", establishes the easterly boundary of the property. At the time of this writing, the legal partitioning of the subject east portion of Lot 1 is in process. It is assumed that the west and north property boundaries of the subject property will be at or very near the current "back-of-sidewalk".

As noted above, a new Tractor Supply retail store is located on the property parcel just to the west of the subject site (west portion of Lot 1 Trondheim Acres) with U.S. Highway 101 being just further to the west. The parcel just north is currently undeveloped, as is the parcel on the east side of the subject property. Single family homes currently occupy the south side of Alternative Hwy 101 at this location. L & D Race Tech, a motorsports business, is located just north of the currently vacant northerly lot, fronted by Marlin Avenue and Les Schwab Tire is located further north, next door to L & D.

SEE SITE PLAN APPENDIX L. SEE LOT LINE ADJUSTMENT APPL., FIGURE 1.

O. Slopes: "Identification of slopes greater than 10%."

The majority of the existing site is currently fairly flat, having been previously filled and leveled. Exceptions are, 1) the existing sidewalk shoulders at the north and west edges of the lot where finished road/sidewalk grade is 3 to 4 feet higher than existing lot grade and current slopes are about 10% grade and, 2) the southerly drainage ditch bank area where existing slope grades vary up to 40% to 60%. At project completion, with additional fill added, finished site grades will match existing sidewalk grades at the north and west and retaining walls will make the grade transitions on the east and south sides of the site. Dress graded ditch bank slopes on the south side will vary from 2:1 to 4:1 (H:V).

SEE EXISTING CONDITIONS AND SITE GRADING AND DRAINAGE PLAN IN APPENDIX I.

P. Adjoining Streets and Sidewalks: "The location, condition (paved, gravel, unimproved, etc.) and width of all public and private streets, drives, sidewalks, pathways, rights-of-way, and easements on the site and adjoining the site."

As noted above, approximately 700-feet east of U.S. Highway 101, a private access road loop has been recently constructed that extends north off of Alternative Hwy 101 about 250 ft, then turns and connects into Marlin Avenue about 500 ft east. These two existing roads, referred to herein as Private Drive (north-south) and Private Drive (east-west), bound the site at the west and north, and Alternative Hwy 101 bounds the site at the south. Existing sidewalks have been constructed on the east side of the (north-south) Private Drive and the south side of the (east-west)

Private Drive. The existing private access roads are 24-feet wide and the sidewalks are 5-feet wide. SEE SITE PLAN IN APPENDIX I.

Q. Floodplain and Floodway: "Any areas identified as located in a designated floodplain and/or floodway."

The entire site, except for the above mentioned higher elevation sidewalk shoulder/bank areas in the northwest corner, lies within the designated floodplain as defined by the 12.0 elevation FEMA Flood Hazard Elevation. Previous Corps & DSL Wetlands Removal/Fill Permitting has secured regulatory approvals to fill the site to levels suitable for building above the current flood level. At the completion of the project, the proposed building and main parking lot area will be above the mapped floodplain. The easterly lower elevation loading area will match the existing grade of the (east-west) Private Drive to the north and Alternative Hwy 101 to the south. SEE EXISTING CONDITIONS AND SITE GRADING AND DRAINAGE PLAN IN APPENDIX I.

R. Wetland and Riparian Areas: "Depict any wetland and riparian areas, streams and/or wildlife habitat areas."

As noted above, the project site has been previously filled under provisions of Wetlands Removal/Fill Permits with the U.S. Army Corps of Engineers and the Oregon Department of State Lands. There is a current natural bottom drainage ditch at the south side of the property that conveys stormwater run-off entering the site from the west. With proposed construction, the north side of this ditch bank will be improved with a dry stacked large-boulder retaining wall. The ditch bottom will be regraded for improved drainage, but will remain with a natural bottom. Similarly, the south bank will be redressed for improved aesthetics and future maintenance ease, but will remain vegetated with grass. As drainage leaves the subject property to the east it appears to meander across the currently undeveloped and wooded lot to the east before entering a culvert under Marlin Avenue and draining further northeast into Holbrook Slough and Young's Bay. SEE SITE GRADING PLAN AND SITE DRAINAGE PLAN IN APPENDIX I.

S. Key Site Features: "Site features such as pavement, areas having unique views, and drainage ways, canals and ditches."

The site currently enjoys an open view westerly across the open parking lot area of the adjacent Tractor Supply store parking lot toward U.S. Hwy 101. The proposed store's angled front façade is designed to take advantage of this current view exposure, with highly-positioned front entrance business signage. From the southerly side-entrance and parking area, there is a view across Alternative Hwy 101 to the south of the lightly developed forested hillside. As noted above the southerly ditch will be regraded with side slope enhancements as part of the project. SEE SITE PLAN IN APPENDIX I AND PHOTO PLATES IN APPENDIX M.

T. Designated Historic and Cultural Resources: "Any designated historic and cultural resource areas on the site and/or adjacent parcels or lots."

The applicant is not aware of any designated historic and/or cultural resources on the site, believing the potential presence of any such resources would have become apparent with noted U.S. Army Corps of Engineers and Oregon Department of State Lands Wetlands Removal/Fill Permitting processes. The City of Warrenton has issued a Land Use Compatibility Statement (LUCS) for the project, acknowledging compatibility with the City's Comprehensive Plan and Commercial Lands designation. The LUCS also notes the proposed retail business establishment is a permitted use, subject to City Development Standards and that the development is subject to the Wetland Area Protection Standards in WMC 16.156.030. SEE LAND USE COMPATIBILITY STATEMENT (LUCS) IN APPENDIX N.

<u>U. Trees and Vegetation:</u> "The location, size and type of trees and other vegetation on the property."

There are currently no large trees on the site. Most of the existing vegetation is grass. A good portion of the site has been filled with rock material so existing grass coverage is sparse. Some willows, small diameter sapling deciduous trees (possibly alder), and Himalayan blackberries exist along the north side of the existing ditch bank. These will be removed as part of construction. SEE EXISTING CONDITIONS IN APPENDIX I.

V. North Arrow, Scale, Property Owner ID: "North arrow, scale, names addresses of all property owners."

SEE PLANS COVER SHEET AND SITE PLAN IN APPENDIX I.

W. Applicant and Professional Team: "Name and address of applicant, project designer, engineer, architect, surveyor, and/or planner, if applicable."

Applicant: Warrenton Property Investments, LLC, 5111 N Coast Highway, Newport Oregon 97365

Designer/Engineer: Stricker Engineering, P.O. Box 366, Garibaldi, Oregon, 97118

Surveyor: Terra Calc Land Surveying, Inc., 1615 N.E. Miller Street, McMinnville, OR 97128

Geotechnical Engineer: Terra Associates, Inc., 12220 113th NE, Ste. 130, Kirkland, Washington, 98034

Environmental Consultant: Bridgewater Group, Commerce Plaza, Suite 235, 7100 SW Hampton St., Tigard, OR 97223

### 3.0 Summary

This Narrative Report, with referenced appendices and attachments, and other accompanying forms and checklists are believed to fulfill all the City of Warrenton's submittal requirements for a Site Design Review Application and an Excavation and Grading Permit Application. The project involves site preloading/surcharging for subsurface soil consolidation. Site surcharging is proposed to be constructed in two phases with the first phase involving surcharging of the proposed building area.

#### **END NARRATIVE REPORT**

## **APPENDICES:**

- a. Stormwater Management Plan, Proposed Roby's Furniture & Appliance Store, Technical Memorandum (Stricker Engineering, May 2021)
- b. Utilities (Water, Sewer, Electrical, Communications, Natural Gas and Fire), Proposed Roby's Furniture & Appliance Store, Technical Memorandum (Stricker Engineering, May 2021)
- c. Excavation & Grading Plan, Proposed Roby's Furniture & Appliance Store, Technical Memorandum (Stricker Engineering, May 2021)
- d. Landscape Plan (Stricker Engineering, May 2021)
- e. Architectural Drawing, Proposed Roby's Furniture & Appliance Store Technical Memorandum (Stricker Engineering, May 2021)
- f. Geotechnical Report, Proposed Roby's Furniture & Appliance Store Technical Memorandum (Terra Associates, Inc., April 2021)
- g. "Land Use Compatibility Statement for Roby's Furniture Project", City of Warrenton Letter to DEQ, May 12, 2021
- h. U.S. Army Corps of Engineers, Permit No. NWP-2007-745, Warrenton Fiber Company, September 10, 2009
- i. Oregon DSL, Wetland Fill Permit, Permit No: 38988-FP Renewal, Expiration Date, August 7, 2021, Warrenton Fiber Company
- j. Pre-Application Meeting (Roby's Furniture & Appliance, January 20, 2021) Comment Letter, City of Warrenton, February 5, 2021, Scott Hess, Community Development Director
- k. Pre-Application Meeting (Roby's Furniture & Appliance, January 20, 2021) Comment Memorandum, Warrenton Fire Department, February 5, 2021, Brian Alsbury, Fire Chief
- l. Reduced Sized Drawings (11" X 17")—Abbreviated Set
- m. Photo Plates:
  - a. Existing Conditions
  - b. Sample Store Signage
  - c. Site Views (South and North)
- n. Land Use Compatibility Statement, City of Warrenton letter to Oregon DEQ, May 12, 2021.
- o. Roby's Customer/Traffic Analysis, 2017-2019

# CITY OF WARRENTON PLANNING AND BUILDING DEPARTMENT

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1.	Township 8N	Range 19W	Section 27	Tax Lot	
2.	<u>8N</u>	_10W	27	6400	
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PROPI	ERTY OWNER (if d	ifferent from A	pplicant)		
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					Fax:

Lot Line Adjustment Application October 2018

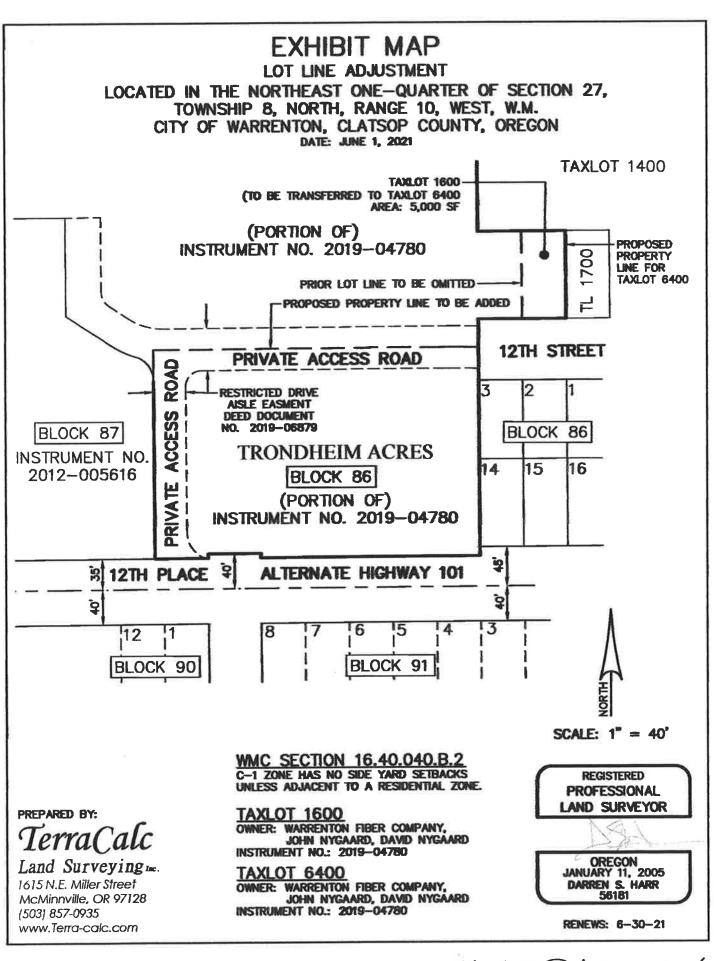
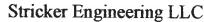


FIGURE 112/2

## APPENDIX A

Stormwater Management Plan, Proposed Roby's Furniture & Appliance Store, Technical Memorandum (Stricker Engineering, May 2021)





PO Box 366 Garibaldi, Oregon 97118 john@strickerengineering.com 503-322-2442

## **TECHNICAL MEMORANDUM**

May 20, 2021

STRICKER

# ROBY'S FURNITURE & APPLIANCE STORE, Warrenton, Oregon (East Portion of Trondheim Acres Lot 1)

## STORMWATER MANAGEMENT PLAN (SWMP)

By: David Leibbrandt, P.E., Stricker Engineering

## 1.0 Introduction and Background

1.1 General--This Stormwater Management Plan is prepared in support of City of Warrenton approval for a proposed new Roby's Furniture Store on the east portion of Lot 1, Trondheim Acres. Trondheim Acres, owned by Warrenton Fiber, is a 16.54 acre commercial property development located generally between US Highway 101 and Marlin Avenue, just north of Alternative Highway 101.

The west portion of Lot 1 has been previously developed with the recent completion of the new Tractor Supply store. As part of the City approval process for the Tractor Supply development a Stormwater Management Plan (SWMP) was completed by A.M. Engineering, June 30, 2019, that addressed stormwater management interests for all of Lot 1, including the east portion. As this plan has been previously approved by the City and references Corps and Oregon DSL permitting that encompasses the entire 16.54 acre commercial development, stormwater system planning, site engineering and site specific stormwater system designs for the east portion of Lot 1, follow the findings and guidance outlined in the referenced 2019 SWMP. This project accepts and refers to the 2019, Trondheim Acres Lot 1 SWMP and the current Warrenton Stormwater Management Plan (Final, HLB-Otak, Febrary, 2008) as the applicable guidance for stormwater management and proposed stormwater system improvements associated with the proposed Roby's Store development on the east portion of Lot 1.

1.2 US Army Corps of Engineers (Corps) and Oregon Department of State Lands (DSL) Permits--As part of the original regulatory approval process for the development of the Trondheim Acres, Warrenton Fiber obtained Removal/Fill Permits from both the Corps and DSL. SEE COPIES ATTACHED IN NARRATIVE REPORT APPENDIX H & I.

Department of the Army Permit, (Issuing Office: U.S. Army Corps of Engineers, Portland District), Permit No. NWP-2007-745, Warrenton Fiber Company, September 10, 2009.

Oregon Department of State Lands, Wetland Fill Permit, Marlin Avenue/Hwy 101 Commercial Development, Permit No: 38988-FP Renewal, Expiration Date, August 7, 2021, Warrenton Fiber Company

These permits provide for the placement of up to 81,000 cubic yards and the removal of up to 26,000 cubic yards, impacting 14.9 acres of wetlands on the Trondheim Acres site complex.

As part of agreed mitigation, Warrenton Fiber Company completed a 142 acre offsite Compensatory Wetland Mitigation Plan involving multiple sites and established a \$48,000 financial endowment to the North Coast Land Conservancy.

At the time of this writing, it is understood that the various conditions of the above permits are being met and that the proposed development of the east portion of Lot 1 is an intended use of the property under the provisions of these permits.

1.3 Existing Site Conditions--As part of the recent Tractor Supply project, a private access road loop was constructed that extends north off of Alternative Hwy 101 about 250 ft, then turns and connects into Marlin Avenue about 500 ft east. These two existing roads referred to herein as Private Drive (north-south) and Private Drive (east-west) define the westerly and northerly sides of the site and Alternative Hwy 101 defines the south side. Existing sidewalks have been constructed on the east side of the (north-south) Private Drive and the south side of the (east-west) Private Drive. An existing north-south property line, approximately 334 ft east of the west-side "back-of-sidewalk", establishes the easterly boundary of the property. At the time of this writing, the legal partitioning of the subject east portion of Lot 1 is in process. It is assumed that the west and north property boundaries of the subject property will be at or very near the current "back-of-sidewalk". The existing 71,000 square feet (1.64-acre) parcel is mostly clear of trees and brush and has been partially filled and leveled with large crushed rock. An existing open drainage ditch is located along the south edge of the property, just outside the north right-of-way boundary of Alternative Hwy 101. A sanitary sewer stub-out has been provided into the site on the north side. SEE SITE PLAN AND EXISTING CONDITIONS MAP IN APPENDIX 1. THIS TM.

1.4 Existing Topography--On the north side of Alternative Hwy 101, the edge of pavement near the southeast corner of the subject site is at about 10 ft elevation and rises gradually to about 12 ft at the south end of the (north-south) Private Drive. The existing pavement surface in the Private Drive intersection at the northwest corner of the property is at about 12.5 ft elevation. The (east-west) Private drive slopes gently down at the east end to an elevation of about 8.5 ft. The subject site has been previously graded and partially filled with the surface elevation varying between about 7.5 ft to 9.5 ft. A 2 ft to 4 ft (vertically) sloped bank along the west and north sides of the site transition the existing undeveloped ground surface grade

to the finished grade of recently constructed new sidewalks. SEE EXISTING CONDITIONS MAP IN APPENDIX, THIS TM.

- 2.0 Site Location and Configuration
- 2.1 Site Location--The subject property is located in Warrenton, Oregon, Township 8 North, Range 10 West, Section 27, Willamette Meridian at latitude, 46.153934 degrees north and longitude, 123.906084 degrees west.
- 2.2 Surrounding Conditions--As noted above, a new Tractor Supply retail store is located on the property parcel just to the west of the subject site. The parcel just north is currently undeveloped, as is the parcel on the east side of the subject property. Older, single family homes currently occupy the south side of Alternative Hwy 101 at this location.

## 2.3 Existing Drainage Conditions

- 2.3.1 South Ditch Drainage--The above noted open ditch at the south side of the subject property conveys surface water entering the site from the west. An existing culvert under the south end of the (north-south) Private Drive carries stormwater that originates from a small lightly developed drainage basin lying southerly of Alternative Hwy 101. An existing culvert located westerly of the subject property, conveys drainage into piping constructed as part of the recent Tractor Supply project, where it is then routed east into the west end of the open ditch. The 18-inch diameter piping carrying this drainage is installed with a downstream discharge invert elevation of 7.44 ft. Bottom elevations in the irregularly graded open ditch vary from about 5.5 feet to about 6.5 feet. As the existing open drainage ditch enters the vacant property to the east, the bottom elevation is about 6.4 ft. This surface water crosses the easterly vacant lot and enters a newly replaced culvert that crosses under Marlin Avenue and discharges into an existing open ditch system eventually outfalling northerly into Holbrook Slough and Young's Bay through a tide gate. SEE FIGURE 1 AND EXISTING CONDITIONS PHOTOS IN APPENDIX 1, THIS TM.
- 2.3.1 Private Drive Piped Drainage System--The Private Drive loop improvements built as part of the Tractor Supply Project, included a new storm drainage piping system. This system collects surface run-off in catch basins and conveys drainage from the (north-south) Private Drive north then west along the (east-west) Private Drive to a bio-swale type stormwater quality facility located in the vacant lot just north of the subject site. This system also carries roof and drive/parking area drainage from the Tractor Supply site. An outfall structure at the downstream end of the water quality facility receives flow and conveys it to a short distance to a culvert crossing of Marlin Avenue, where stormwater enters the open drainage way mentioned above and makes its way north-easterly to Young's Bay by way of Holbrook Slough. Flow in this reach is reportedly tidally influenced, with existing tide gates at the Young's Bay outfall, checking back-flow up the drainage way. This piped drainage system collects roof and drive/parking lot run-off from the westerly Tractor Supply site and roadway run-off from the Private Drives surrounding the subject site. SEE SITE DRAINAGE AND GRADING PLAN IN APPENDIX 1, THIS TM.

### 2.4 Project Description

2.4.1 Proposed Site Improvements-- The proposed development of the east portion of Lot 1, involves the construction of a 28,000 square foot (approximately) retail furniture and appliance store. The proposed 100' X 280' store is planned to be oriented close to the west and north property boundaries with a customer parking lot on the south side and a main customer entrance on the west side connecting to an existing (north-south) Private Drive. A one-way truck entrance off of an existing east-west Private Drive, is proposed in the northeast corner of the property and a 4foot high trailer level loading dock is planned on the backside (east end) of the building. The proposed building finished floor, rear loading dock and the surrounding perimeter sidewalk is planned to be constructed at an elevation of 13.5 feet (ft) NAVD 88, 1.5-ft above the mapped 12.0 ft FEMA Flood Hazard Elevation. The existing sidewalk elevation at the northeast corner of the property sits at about 13.0 ft elevation. The majority of the proposed parking lot is planned for construction above the 12.0 ft flood elevation. It is planned that the rear (easterly) truck entrance extend south around the back of the building from the existing road elevation of about 9.5-ft, fairly flat, with minimal grading for proper drainage, before transition up about 2.5-feet to the level of the main parking lot. Proposed site drainage features are described below. SEE SITE PLAN AND SITE GRADING PLAN IN APPENDIX 1, THIS TM.

## 2.4 Proposed Site Drainage Improvements

- 2.4.1 General--Site grading and drainage system designs propose on-site collection and treatment facilities that route most of the improved-site's stormwater run-off south to the existing open ditch. Surface drainage from a very small localized area at the northeast truck entrance drive-way apron is proposed to drain directly into an existing curbside catch basin located adjacent to the entrance. This flow will be treated in the existing northerly water quality treatment facility as originally provided for per the Trondheim Acres Lot 1, SWMP. Referencing "5.1.5 Subcatchment C, Treatment for SC-C shall be addressed on the sub-catchment B site during future development." Where Subcatchement C (SC-C), is defined as the subject Roby's site and sub-catchment B is defined as the northerly site containing the constructed bio-swale stormwater quality facility. SEE AM ENGINEERING TRONDHEIM ACRES LOT 1 SWMP INFO IN APPENDIX 3, THIS TM.
- 2.4.2 Proposed Best Management Practices (BMP's)—The proposed retail furniture store development will implement structural BMP's to treat stormwater run-off generated from site pavement parking lot and driveway surfaces. Structural BMP's will be incorporated into parking lot/drive area catch basins. These water quality treatment facilities will be sized to treat Water Quality (WQ) rainfall flow as calculated in the previously referenced A.M. Engineering, Trondheim Acres Lot 1, SWMP, with proportion based on respective contributing sub-catchment areas.
- 2.4.3.0 Parking Lot and Driveway Drainage -- All parking lot and driveway run-off is proposed to be routed to catch basin treatment features incorporating Contech's StormFilter technology. Two treatment units are being proposed, one treating lower (east and back) truck-loading area run-off and one treating upper level (west) parking area run-off combining treatment flow from the two westerly catchbasins.

Three parking area catch basins are proposed with each including low-flow routing for Water Quality Storm treatment and high-level flow by-pass piping, routing 100-Year Storm flows directly to the open ditch. Energy dissipation features will be included as part of north bank reconstruction at each outfall. SEE SITE DRAINAGE PLAN AND DETAILS—STORMWATER QUALITY FACILITIES IN APPENDIX 1, THIS TM.

- 2.4.3.1 StormFilter Maintenance—StormFilter facilities require periodic maintenance for continued treatment effectiveness. Each unit contains filter media canisters that require replacement approximately every 2 to 3 years. Roby's will provide on-going maintenance of water quality facilities in accordance with the "StormFilter Inspection and Maintenance Procedures" included in APPENDIX 5. ALSO SEE "DETAILS—STORMWATER QUALITY FACILITIES" IN APPENDIX 1, THIS TM.
- 2.4.3 Roof and Foundation Drainage—As roof drainage and foundation drainage are not typically considered to be significant contributors to surface water pollution, this project's roof and foundation drainage is proposed to be piped directly to the southerly open ditch without treatment, by-passing parking lot catch basins.
- 2.4.4 Open Ditch Improvements-- The existing southerly ditch is proposed to remain an open ditch with a regraded gradually sloped bottom for continuous flow drainage. It is proposed that the regraded bottom be finished with native soil and that the southerly bank be dressed and reseeded with native species grass. A dry stacked, large boulder bank treatment is proposed for the north bank. With a regraded, natural soil bottom and native grass vegetation, this ditch is expected to continue to provide some degree of unquantified supplemental stormwater treatment.
- 2.4.5 Erosion and Sedimentation Control Plan (ESCP)--The project will obtain an NPDES 1200-C Permit from DEQ. SEE APPLICATION INCLUDED IN APPENDIX 4, THIS TM. An ESCP is being proposed that follows the guidance outlined in the NPDES 1200-C permit and incorporates traditional BMP's for erosion and sedimentation control throughout construction. SEE ESCP DRAWINGS IN APPENDIX 1, THIS TM.
- 3. Site Hydrologic Characteristics
- 3.1 General--This section addresses the various hydrologic considerations that are relevant to stormwater system planning and design.
- 3.2 Rainfall--As reported in the Trondheim Acres Lot 1 SWMP, 2019, A.M. Engineering...The site is located in Warrenton, Oregon within one (1) mile of the Astoria Airport where the rain gauge at the Astoria Airport (gauge 350328) has a recorded annual average rainfall of 68.55 inches, as reported by the Western Regional Climate Center. Noting that Northwest Oregon rainfall patterns follow a Type 1A precipitation pattern, the A.M. SWMP referenced the 2008, Warrenton Stormwater Master Plan and presented rainfall depths associated with a targeted "Water Quality (WQ) design storm and a 100-year design storm. Based on the

National Oceanic and Atmospheric Administration (NOAA) information this reporting established critical rainfall depths as follows:

Water Quality Storm

1.50 inches

100-Year Storm

6.10 inches

3.3 Native Soils—Site specific geotechnical engineering was completed for the subject site by Terra Associates, Inc., the same firm that provided geotechnical engineering for the Trondheim Acres Lot 1, Tractor Supply development project. According to this reporting (Geotechnical Report, Roby's Furniture, Fort Stevens Highway (Hwy 101 Business) and SE Marlin Drive, Warrenton, Oregon, Terra Associates, Inc., April 12, 2021), subsurface soils consist of between 45 ft and 62 ft of very soft, wet, alluvial soil classified as estuarine silt, fine sandy silt and soft to medium stiff peat, overlaying hard, moist residual elastic silt "interpreted to be the informally named Smuggler Cove formation." Terra further noted:

"The Geologic Map of the Astoria Basin, Clatsop and Northernmost Tillamook Counties, Northwest Oregon, by A.R. Niem (1985) shows geology at the subject site mapped as Quaternary alluvium (Qal) that includes estuarine clay, silt, and fine sand in low-lying coastal areas in and along the Columbia River, Young's Bay and other major river mouths. The unconsolidated deposits observed in the subsurface explorations are consistent with the description of this geologic map unit."

- 3.4 Groundwater—As reported in the site's Geotechnical Report (Terra Associates, Inc.), groundwater levels at the subject Roby's site were generally observed at about 2 to 3 feet below ground surface.
- 3.5 On-site Fill—The above referenced Terra Geotechnical Report noted, "The eastern portion of the site has been filled with an unknown thickness of crushed rock. Much of the crushed rock visible on the ground surface consists of 6 to 18-inch diameter quarry spalls."
- 3.6 Structural Fill--In accordance with the April 12, 2021, Terra Geotechnical Report, approximately 4 to 5 feet of imported granular structural fill material will be imported and placed over the existing surface in the proposed building area, and approximately 2 to 3 feet of imported granular structural fill will be placed in paved areas. This structural fill will then be surcharged with 4-feet of material over the building area and one foot of material over paved areas to pre-consolidate compressible subsurface soils prior to construction. Recommended specifications for imported structural fill are as follows:

100 Percent Passing 6-inch U.S. Sieve Size

75 Percent Passing the No. 4 U.S. Sieve Size

5 Percent Max. Passing the No. 200 Sieve Size

3.7 Existing Site Hydrology—General drainage patterns are described above, "South Ditch Drainage" and "Private Drive Piped Drainage System". A.M. Engineering, 2019,

SWMP reporting, further notes: "An 18" diameter culvert crossing SE Marlin Ave. near the SE 12th Street right-of-way conveys water to Holbrook Slough. The calculated capacity of the pipe is 26.13 cubic feet per second (cfs). And, "A culvert under Highway 101 Alternate east of King Avenue and roof drains from an adjacent property drain onto the site. Runoff from the culvert shall be re-routed to existing ditches along Alternate 101 and bypass the proposed (Tractor Supply) site drainage system. The 100-year storm event for the adjacent area is 2.02 cfs."

3.8 Stormwater Run-off--Based on a total gross site area of 70,800 square feet and an estimated impervious area of 60,180 square feet and Applying the Type 1A rainfall distribution to the Santa Barbara Urban Hydrograph (SBUH) Method, A.M. Engineering's 2019 SWMP reported run-off rates and volumes for the subject Roby's site (referenced in SWMP reporting as Sub-catchment C) as follows:

### 100-Yr Storm:

Rainfall- 6.10", Run-off Volume = 0.565 af, Run-off Depth- 4.17", Flow Rate-2.09 cfs WQ Storm:

Rainfall-1.50", Run-off Volume = 0.122 af, Run-off Depth- 1.50", Flow Rate- 0.46 cfs (24-hour storm, Tc = 5.0 minutes, CN=61/98)

Proposed development is consistent with these impervious area estimations. Proposed facilities are sized to accommodate these calculated flows.

3.9 Tidal Influence/Flood Level--The mapped FEMA Flood Hazard Elevation at the proposed site is 12 ft, with it being reported that flood levels could possibly rise to 13 ft in the future. Almost all of the proposed site currently lies below the reported flood level. While much of the existing site has been previously filled, additional structural fill is proposed so that the proposed building finished floor can be built at an elevation of 13.5 ft. Imported structural fill will further more be placed in the proposed paved areas so that most of the planned parking lot area will be above the 12 ft flood level. The open drainage ditch is reported to be under tidal influence, with downstream tide gates limiting backflow upstream during high tide/high flood events. Because of these conditions, the City of Warrenton does not encourage or allow flow control associated with stormwater management programs in low lying area such as this site.

4. Calculations—Calculations for proposed stormwater facilities are included in Appendix 3. A summary of key design data is as follows:

## 4.1 Site/Impervious Area

Description	Area (square feet, sf)
Gross Site Area	71,000 sf
Proposed Landscaped Area	10,620 sf

Impervious Area	59,210 sf
Roof Area	28,000 sf
Net WQ Paved Area	31,210 sf

## 4.2 Design Storms

Design Storm	Flow Rate (cubic feet per second, cfs)
100-Year Storm	2.09 cfs
Water Quality Storm	0.46 cfs <sup>1</sup>

<sup>1)</sup> Stormwater flow attributed to paved areas where treatment is to be provided = 0.46 cfs (0.53) = 0.24 cfs. See area based proration calculations in Tables SD.1 & 2.

### 4.3 Flow Allocations

Catch Basins:	100-Year Flow Alloc. (cfs)	WQ Flow Alloc. (cfs)
CB-1	0.272	0.06
CB-2	0.251	0.06
CB-3	0.523	0.115
NE Trk Entr Exist CB	0.031	0.005
Roof Run-off	1.00	N/A
TOTALS	2.09 cfs	0.24 cfs

## 5.0 Summary and Conclusions

Stormwater runoff from the proposed Roby's site (East Portion of Lot 1, Trondheim Acres) will be managed in accordance with the requirements of the City of Warrenton and the applicable provisions of the Trondheim Acres Lot 1, Stormwater Management Plan (SWMP), A.M. Engineering, June 30, 2019. Proposed treatment for paved surface areas involves the use of Contech's Catchbasin StormFilter structural BMP facilities. The large majority of the site's run-off will be routed for discharge into an existing open ditch at the south side of the property. Improvements are proposed for this ditch to improve stormwater conveyance, visual aesthetics and future maintenance ease.

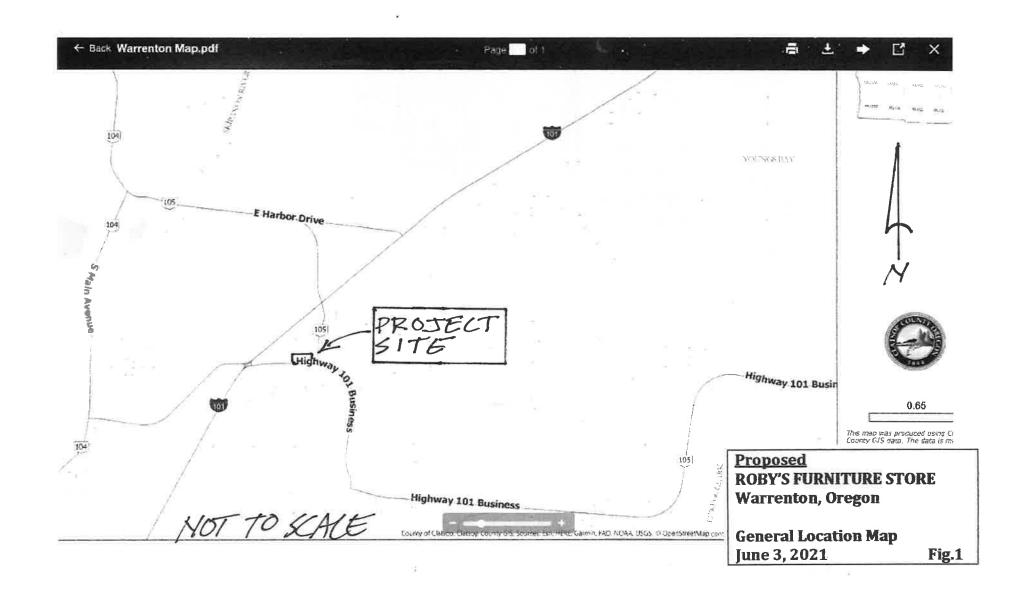
As stated in A.M. Engineering's reference reporting: Flow control is not practical at the site due to; soil characteristics, ground water conditions and a tidally influenced watershed. Additionally, the City of Warrenton does not require flow control associated with stormwater management.

Roby's will provide on-going maintenance of proposed Catchbasin StormFilter facilities in full accordance with the manufacturer's recommendations so as to provide long-term treatment effectiveness.

### **END TECHNICAL MEMORANDUM**

### **APPENDICES:**

- 1) Reduced Size Drawings for Reference:
  - i. PLAN COVER SHEET (Incl. Site Location & Vicinity Maps)
  - ii. SITE PLAN
  - iii. EXISTING CONDITIONS MAP
  - iv. EXISTING CONDITIONS PHOTOS
  - v. SITE DRAINAGE AND GRADING PLAN
  - vi. ESCP Sheets
  - vii. DETAILS—STORMWATER QUALITY FACILITIES
- 2) A.M. Engineering, Trondheim Acres, Lot 1 SWMP Information:
  - a) Study Area Map
  - b) Alt 101 Culvert Sub-basin Map (Figure F3)
  - c) Hydrograph/Q Calcs for 100 yr and WQ storm
    - i. Alt 101 Culvert Subcatchment
    - ii. Lot 1 Subcatchment C (Proposed Roby's Site)
- 3) Storm Drainage Calculations
- 4) DEQ NPDES Permit Application
- 5) StormFilter Inspection and Maintenance Procedures



## **APPENDIX 1**

## Plans--Abbreviated Set/Reduced Size

(See 11 X 17  $\frac{1}{2}$  size plans in Narrative Report Appendix and full-size plans bound separately)

### CIVIL DRAWING INDEX

C12.0 DETAILS - ROADS/SIDEWALKS & CURBS C13.0 DETAILS - ADA SIDEWALK & CURB RAMPS

C14.0 ESCP - COVER C14.1 ESCP - GENERAL NOTES C14 2ESCP - PHASE I & II

METAL ROOF

REFERENCE DATUM: STATION INDEX ID: PID SC0559'

DATUM: NAVD 68 **ELEVATION: 8.36 FT** 

4. SITE ZONING: COMMERCIAL, C-1

LATITUDE 46.153934, LONGITUDE -123.906084

C14.3ESCP - BUILDING CONSTRUCTIONC14.4 ESCP - ODOT DETAILS

NORTH SIDE OF HIGHWAY 101 ALTERNATE.

LOCATION: BETWEEN HIGHWAY 101 & MARLIN AVE. ON NORTH SIDE OF ALT, HIGHWAY 101, T.C. #81027 AB06900, T8N, R10W, SECTION 27

### STRUCTURAL DRAWING INDEX

S1.0 SITE PLAN
S2.0 SITE SURCHARGE PRELOADING PLAN
S3.0 FOUNDATION PLAN
S4.0 MEZZANINE & RESTROOM PLANS
S5.0 ROOF PLAN & ROOF DIAPHRAGM SCHEMATIC
S6.0 EXTERIOR ELEVATIONS
S7.0 BUILDING SECTIONS & WEST WALL FRAMING
S8.0 FOUNDATION/FRAMING SECTIONS & DETAILS
S9.0 FOUNDATION & FRAMING DETAILS

SUBMITTED SEPARATELY

PROPOSED DEVELOPMENT: COMMERCIAL/RETIAL STORE, HOME FURNITURE & APPLIANCES GENERAL LOCATION: WARRENTON, OREGON BETWEEN HIGHWAY 101 AND MARLINE AVE ON

PROPOSED BUILDING: 27,500 SQ, FT FABRICATED STEEL STRUCTURE WITH WOOD SIDING &

# **ROBY'S FURNITURE**

WARRENTON, OREGON



STRICKER Engineering

### UTILITY PROVIDERS: PROJECT TEAM:

CITY OF WARRENTON ATTN: COLLIN STELZIG PUBLIC WORKS DIRECTOR 45 SW 2ND STREET WARRENTON OREGON 97146 503-861-0917

WATER & SANITARY SEWER CITY OF WARRENTON ATTN: COLLIN STELZIG 45 SW 2ND STREET WARRENTON OREGON 97146 503-861-0917

ATTN: MARILYN BROCKEY 2340 SE DOLPHIN WARRENTON OREGON 97146 503-861-6005

CABLE TELEVISION CHARTER SPECTRUM COMMUNICATIONS

ATTN: VINNY BILLECI 419 GATEWAY AVENUE ASTORIA OREGON 97103 503-338-7710

GAS NW NATURAL GAS ATTN: RICH GIRARD 220 NW 2ND AVE PORTLAND OREGON 97209

CENTURY LINK ATTN: MIKE MEISNER 481 INDUSTRY ASTORIA OREGON 97103

ONE CALL CENTER 1-800-332-2344 OR 8



5111 N. COAST HIGHWAY, NEWPORT, OR 97365 CONTACT: KYLE LANGLIERS, REGIONAL MANAGER

PROJECT ENGINEER STRICKER ENGINEERING PO BOX 365 GARIBALDI, OR 97118 CONTACT: JOHN DOYLE, PRESIDENT PHONE: (503) 322-2442 CIVIL DESIGN: YOUNGS RIVER ENGINEERING, LLC

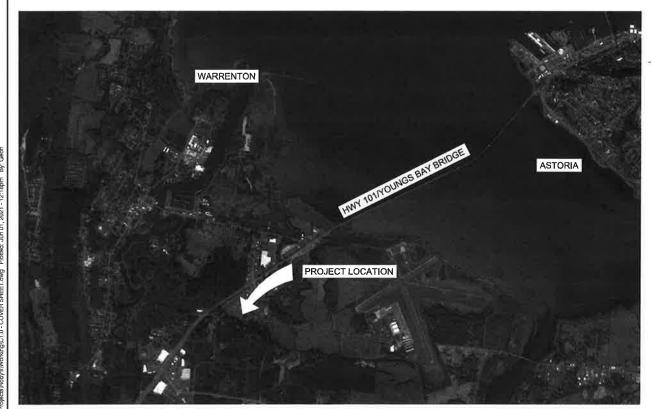
91290 YOUNGS RIVER RD. ASTORIA, OR 97103 CONTACT: GEOFFREY LILJENWALL, P.E.

12220 113TH AVE, STE 130. KIRKLAND, WA 98034 CONTACT: JOHN SADLER, SENIOR ENGINEERING GEOLOGIST THEODORE SCHEPPER, P.E., PRINCIPAL PHONE: (425) 821-4334

COMMERCE PLAZA, SUITE 235, 7100 HAMPTON ST. TIGARD, OR 97223 CONTACT: JUSTIN POUNDS, RG PHONE: (503) 675-5252

CONSTRUCTION CONTRACTOR (SITE WORK): BIG RIVER CONSTRUCTION, INC. 35064 HIGHWAY 101 BUSINESS ASTORIA, OR 97103 CONTACT: PHIL GAFREY PHONE: (503) 338-3878











SITE VICINITY MAP (NTS)

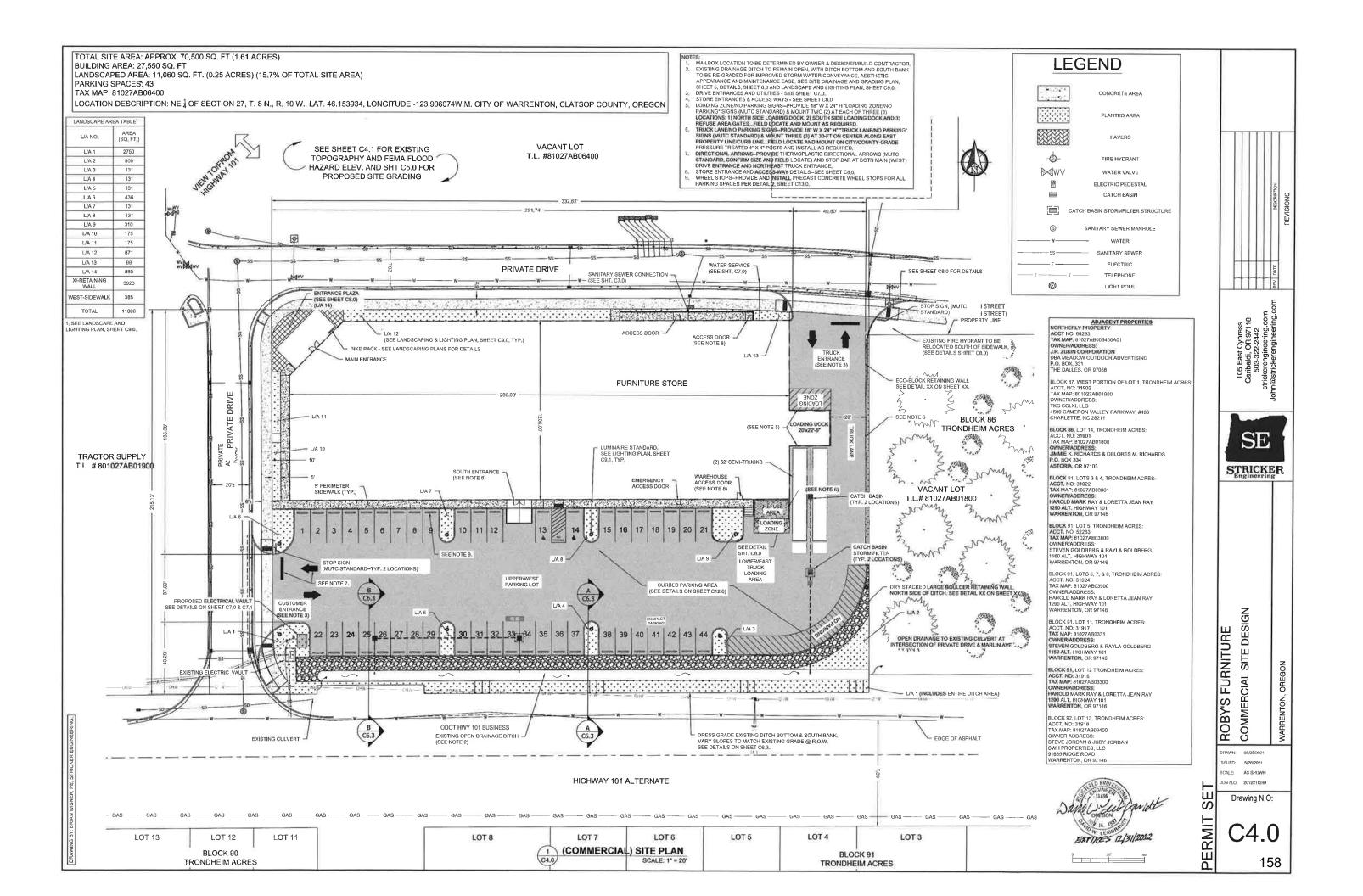
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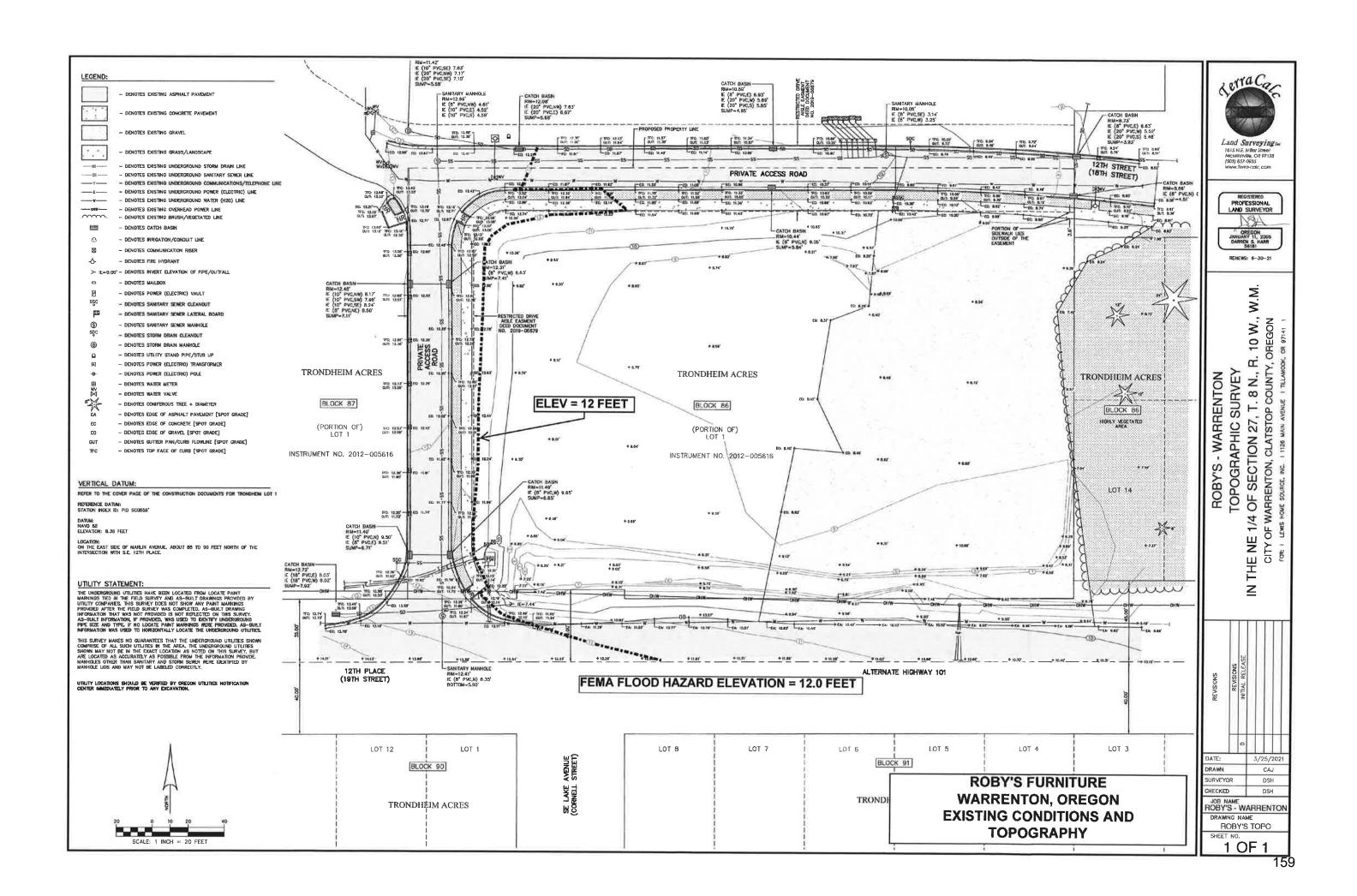
COVER SHEET

CALE: AS SHOWN OB N.O: 2012211249

Drawing N.O:

ER















CONSTRUCTION NOTE - GRADING 2 NW ENTRANCE 2

REDUCED DRAWING VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING
O' IT IN ONE INCH ON THIS SHEET,
ADJUST SCALES ACCORDINGLY

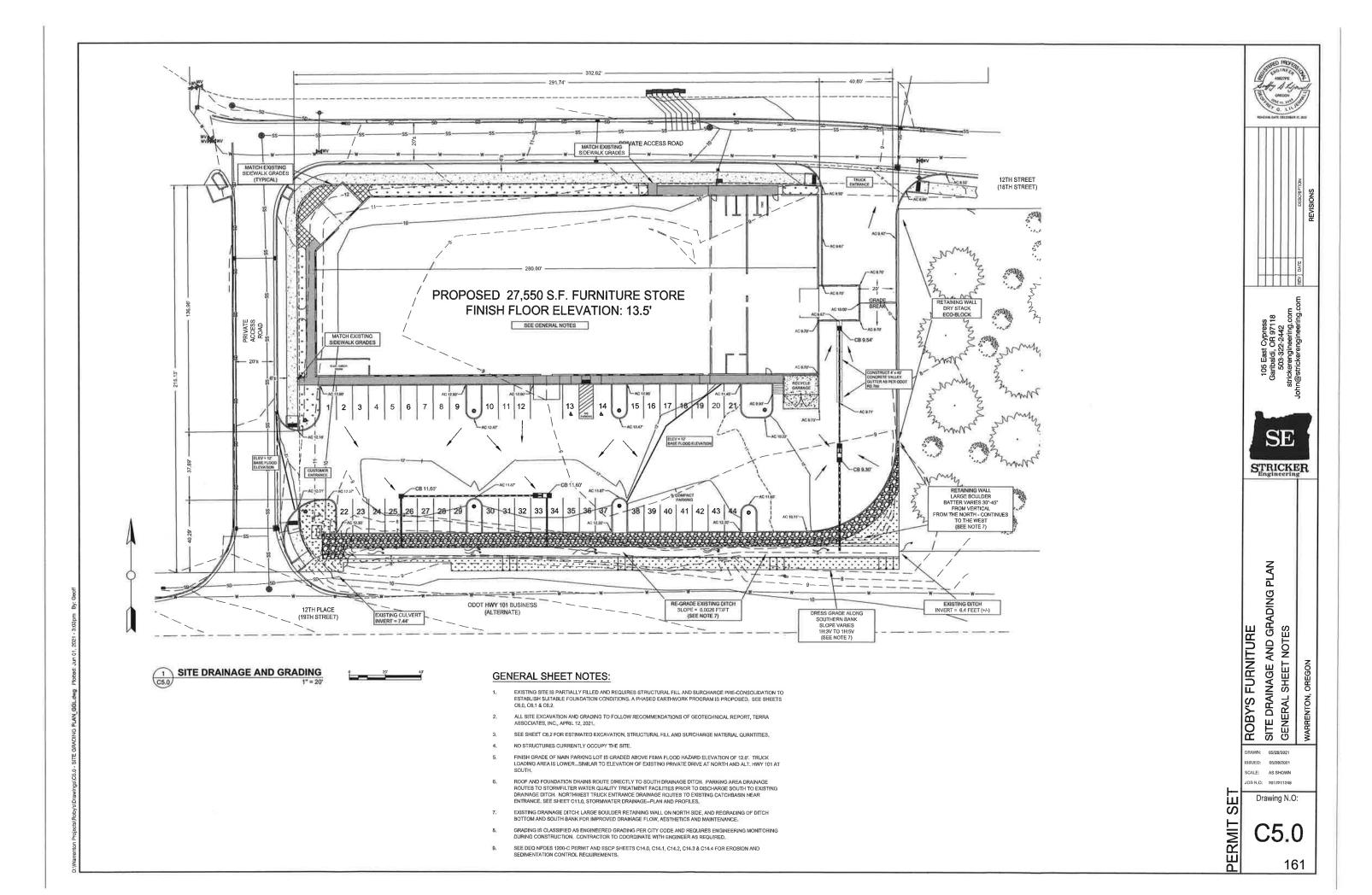
| DRAWN: 12/21/2020 |
| ISSUED: 04/30/2021 |
| SCALE: AS SHOWN |
| JUB N.O. 2012211249 |
| Drawing N.C |
| C4. |
| 16 Drawing N.O:

SE STRICKER

ROBY'S FURNITURE
EXISTING CONDITIONS AND TOPOGRAPHIC SURVEY
WARRENTON OREGON

DRAWN: 12/21/2020

C4.1



#### SITE DESCRIPTION

ON-SITE CONSTRUCTION ACTIVITIES	SITE & TO BE CONSTRUCTED AS THANSES, CONSTRUCTION INCLUDES THE DEVELOPMENT OF REFAIL FLARMLING. STOREWITH FAMILIES AND LOADING COOK. PHASE I WILL CONSTRUCT OF SURCHARGING THE SITE WITH STRUCTURA NOOK FILL. PHASE 2 WILL BE THE CONSTRUCTION OF THE BULLING AND SURCHARGING THE PHROBIG LOT.			
OFF SITE CONSTRUCTION SUPPORT ACTIVITY AREAS COVERED BY THIS PERMIT (SEE SECTION 1.3.2)	RIGHT OF WAY MERCYBRENTS INCLUDE A SHALLT WICEWILL NOTE: ALL STORMATER WILL FLOW TO EXETING BASINS DESIGN AND INSTALLED IN THE PROPERTY DEVELOPMENT (COMMERCAL SHORM/COENTRIC			
PROPERTY SIZE (ACRES)	161			
TOTAL (XSTUFERD AREA (NEAREST QUARTER ACRE)	1.61			
303(D) CATEGORY 4 AND 5 IMPAIRMENT STATUS OF EACH RECEIVING WATER BODY	NA NA			
WATERSCORE MARCTED BY CONSTRUCTION ACTIVITIES WITH 401 WATER CUALITY CHITECATIONS USACE FERMIT, DISLIFERMIT, AND/OR ANY OTHER APPLICABLE AGENCY AUTHORIZATION FIRMIT MARGERS.	ACCE AND OSL JOINT PERMIT NO. XXXXXXX			
ESTIMATED START DATES OF CLEARING AND GREERING	AUGUST 2021			
ESTAMATED START DATES OF MASS GRADING	AUGUST 2021			
ESTIMATED START DATES OF DEMOLITION ACTIVITIES	NA NA			
ESTINATED START DATES OF SITE PREFIARATION (I.E. EXCAVATING CUTTING AND PLLING)	AUGUST 2021			
ESTIMATED START DATES OF FIRAL GRADING, AND CREATION OF SOL AND VEGETATION STOCKFILES REQUIRING STABLIZATION	MAY 2022			
ESTMATED DATES OF TEMPORARY OR FINAL STABILIZATION OF EXPOSED AREAS	DECEMBER 1922			
ESTIMATED DATES OF REMOVAL OF TEMPORARY STORMMATER CONTROLS AND CONSTRUCTION EQUIPMENT OR VEHICLES	DECEMBER 2022			
ESTIMATED FINAL END DATE OF CONSTRUCTION RELATED POLLUTANT-GENERATING ACTIVITIES	DECEMBER 2022			
FLI, MATERAL	MPORTED STRUCTURAL MATERIAL			
SITE SOLS	QUATERNARY ALLUVIAM (FIVE SETS)			
SLOPES	0%-3%			
AUTHORZED NON STORMANTER OSCHARGES IN SECTION 1 4 THAT WILL OR MAY OCCUR	WATER USED FOR DUST CONTROL			
POLITIANT GENERATING ACTIVITIES ON THE SITE WITH INVENTORY OF POLITIANTS OF POLITIANT CONSTRUCTION WHICH COULD BE DISCHARGED IN STORMMA TER FROM THE CONSTRUCTION SITE.	GROUND DISTURBANCE GENERATING SEDIMENT. CONCRETE WASHOUT, AND EQUIPMENT SPILLS			
De l'anni de l'a	STORMWATER CONTROLS:			
(DEDMENT FENCE	SEAMONT FEICHOG EN TIMPORARY SEDMENT TRAPCONSISTING OF AMENTREHOND DECTEXTILE STREETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS SEMAINT FEICES ARE ALLIQUATE TO THEAT IT, ON DUPTHS CONSISTENT WITH OVERLAND OR SHEET FLOW			
CONSTRUCTION EMPRANCE	A CONSTRUCTION BYTEANCE IS A STABLIZED ROCK PAD, FLACED AT CONSTRUCTION SITE NOVES SEGRESS LOCATIONS TO RELUCE THE AMOUNT OF SEEMENT TRANSPORTED DIVID NAVED ROADS BY VEHICLES OR RUNOFF.			
NOL STOCKFILE PROTECTION	PROVIDES MARIDA TE PROTECTION TO SLOPES AND STOCKES READS SHEETING HAS BEEN ROOMN TO TRANSPER BOOKEN FOR LINK BECAUSE WE TER MULL SHEET FLOW OFF THE FLASTIC AT HIGH VIELDOTTY. THIS IS USUALLY TRITIBELIZABLE TO GOOGRAFIC			
NOCK ENERGY DISSIPATER	COULE THO DECISION REDUCES THE SHEED OF CONCUMBATED FLOW THEREIT REVISITING SCOULA T CONFIDENCE OUTLIES BY DISSENTING SHEEKY, OWLER PROTECTION LOWERS HE PETERRIAL FOR DOWNSTREAM BROSON OUTLIET REPOTECTION INCLUDES RYPRAFLINGD BASINS, CONCRETE A PROVIS, AND SETTLING SHEEKY PROVIDED ON THE PROTECTION FLOW TO STORM.			
CONCRETE WASHOUT	PROVIDES DESIGNATED WASHOUT AREA TO REDUCE THE DISCHARGE OF POLLUTANTS			
ALCO AND	· Burnari and American in control (C) (A) (A) (A) (A)			

#### STORM MANAGEMENT PLAN

#### PRIOR TO ANY SIGNIFICANT EXCAVATION

- 1. INSTALL BEST MANAGEMENT PRACTICE (BMP) FOR EROSION PREVENTION
- 2. INSTALL CONSTRUCTION ENTRANCE
- 3. MAINTAIN AS MUCH EXISTING VEGETATION AS POSSIBLE

#### DURING CONSTRUCTION

- 1, IF THE CONSTRUCTION ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, ALTERNATIVE MEASURES TO KEEP STREETS FREE OF SEDIMENT MUST BE USED, THESE INCLUDE STREET VACUUM SWEEPING AND PLACING SEDIMENT IN DESIGNATED STOCKPILE, INCREASING THE DIMENSIONS OF THE ENTRANCE AND/OR INSTALLATION OF A WHEEL WASH.
- 2, REMOVE ANY SOIL THAT LEAVES THE SITE AND ENTERS DOWNSTREAM DRAINAGE SYSTEM
- 3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION, SEDIMENT AND POLLUTANT CONTROL MEASURES, TEMPORARY AND PERMANENT, IN PROPER FUNCTIONING ORDER, WITHIN 24 HOURS FOLLOWING A STORM OR HIGH WIND EVENT, THE CONTRACTOR MUST ADJUST, REPAIR AND REPLACE EROSION, SEDIMENT AND POLLUTANT CONTROL MEASURES TO ENSURE THAT THE MEASURES ARE FUNCTIONING PROPERLY.
- 4. ALL STOCKPILED MATERIALS SHALL BE PROTECTED WITH TEMPORARY SOIL STABILIZATION MEASURES SUCH AS PLASTIC SHEETING SECURED WITH TIE DOWNS AND SANDBAGS.

#### UPON COMPLETION OF EXCAVATION

RE-SEED ALL DISTURBED SOILS, SEED SHALL BE FROM BLUE TAG STOCK AND FROM THE LATEST CROP AVAILABLE. THE FOLLOWING MIXTURES ARE APPROPRIATE FOR THE OREGON NORTH COAST:

#### SOIL CONSERVATION MIX:

HYBRID RYF: 3 LBS/ACRE 9% TALL FESCUE: 18 LBS/ACRE 52% CREEPING RED FESCUE: 8 LBS/ACRE 24% BENT GRASS: 11 BS/ACRE 3% 4 LBS/ACRE 12% BIG TREFOIL:

### VISUAL MONITORING PROGRAM

BYC CONDITION	MINIMUM FREQUENCY			
ACTIVE PERIODS	DOLY WEST STORMARDS RECEIVED RELICENT STREET STORMARDS RECEIVED AT LIKE TO SET THE STORMARD AT LIKE TO SET THE SET THE STORMARD AT LIKE TO SET THE			
PROR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE \$44,00055684/TV	ONE TO BREAK THAT SPENDING SEMBLE CONDUCTOR WE SHAD SING OTHER WAY RECESSARY MANDAGE AND REPARTMENT SEPROR SOLEMANT DRESSE			
NACTIVE PERIODS GREATER THAN FOURTEEN (14) CAMBELLINE CALENDAR DAYS	ONDERGON MORPH			
PERSONS CLIRING WHICH THE SITE IS INVICCESSIBLE DUE TO MICLEMENT WEATHER	F PRACTICAL INSPECTION MIST COOLINGALY AT A RELIVANT AND ACCESSIVE COOLINGS FOR OR COMMISTREAM, OCATION			
PERCOS DURIS WHO COSOWING IS UNLASELY DUE TO PROCEDY CONDITIONS	MOVINEY PERCON NOVICON CONTENT OF VIOLATED WAS A PROPERTY OF WAS A PROPERTY OF THE PROPERTY OF			

### OREGON STANDARD ESCP NOTES

- 1. ONCE KNOWN, INCLUDE A LIST OF ALL CONTRACTORS THAT WILL ENGAGE IN CONSTRUCTION ACTIVITIES ON SITE, AND THE AREAS OF THE SITE WHERE THE CONTRACTORS) WILL ENGAGE IN CONSTRUCTION ACTIVITIES, REVISE THE LIST AS APPROPRIATE UNTIL PERMIT COVERAGE IS TERMINATED (SECTION 4.4.C.I), IN ADDITION, INCLUDE A LIST OF ALL PERSONNEL (BY NAME AND POSITION) THAT ARE RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND MAINTENANCE OF STORMWATER CONTROL MEASURES (E.G., ESCP DEVELOPER, BMP INSTALLER (SEE SECTION 4,10), AS WELL AS THEIR INDIVIDUAL RESPONSIBILITIES. (SECTION 4.4.C.II)
- 2. VISUAL MONITORING INSPECTION REPORTS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS. (SECTION 6,5)
- 3, INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS, (SECTION 6.5.Q)
- 4. RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DEQ, AGENT, OR THE LOCAL MUNICIPALITY. (SECTION 4.7)
- 5. THE PERMIT REGISTRANT MUST IMPLEMENT THE ESCP, FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SECTIONS 4 AND 4.11)
- 6, THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS, (SECTION 4,8)
- 7. SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED, SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS, SUBMIT ALL NECESSARY REVISION TO DEQ OR AGENT WITHIN 10 DAYS.
- 8. SEQUENCE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SECTION 2.2.2) 9, CREATE SMOOTH SURFACES BETWEEN SOIL SURFACE AND EROSION AND SEDIMENT CONTROLS TO PREVENT STORMWATER FROM BYPASSING CONTROLS AND PONDING, (SECTION 2.2.3)
- 10, IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED, IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER
- 11, PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS, RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION, IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED, (SECTION 2.2.5)
- 12. MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FEET OF WATERS OF THE STATE. (SECTION 2.2.4)
- 13, INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE. (SECTIONS 2,1,3)
- 14, CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAM BANKS, (SECTIONS 2,1,1, AND 2,2,16)
- 15, CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE GOUNDARY, (SECTIONS 2.2,6 AND 2,2,13)
- 18 ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK. (SECTION 2.2.14)
- 17. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRACING PROGRESSES, TEMPORARY OR PERMANENT STABILIZATION MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT UNIVEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADS. (SECTIONS 2.2.20 AND 2.2.21)
- $18, \; {\tt ESTABLISH\, MATERIAL\, AND\, WASTE\, STORAGE\, AREAS,\, AND\, OTHER\, NON-STORMWATER\, CONTROLS,\, ({\tt SECTION\, 2.3.7})$
- 19. KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND CLOSE LIDS AT THE END OF THE BUSINESS DAY FOR THOSE CONTAINERS THAT ARE ACTIVELY USED THROUGHOUT THE DAY, FOR WASTE CONTAINERS THAT DO NOT HAVE LIDS, PROVIDE EITHER (1) COVER (E.G., A TARP, PLASTIC SHEETING, TEMPORARY ROOF) TO PREVENT EXPOSURE OF WASTES TO PRECIPITATION, OR (2) A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS (E.G., SECONDARY CONTAINMENT), (SECTION 2.3,7)
- 20, PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPS SUCH AS: CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH, THESE BMPS MUST BE IN PLACE PRIOR TO LAND- DISTURBING ACTIVITIES. (SECTION 2.2.7)
- 21. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE, (SECTION 2.2.7.F)
- 22. CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, LE., CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS. (SECTIONS 1,5 AND
- 23. ENSURE THAT STEEP SLOPE AREAS WHERE CONSTRUCTION ACTIVITIES ARE NOT OCCURRING ARE NOT DISTURBED. (SECTION 2.2.10)
- 24, PREVENT SOIL COMPACTION IN AREAS WHERE POST-CONSTRUCTION INFILTRATION FACILITIES ARE TO BE INSTALLED. (SECTION 2,2,12)
- 25, USE BMPS TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES, THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, FERTILIZES, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS. (SECTIONS 2.2.15 AND 2.3)
- 26, PROVIDE PLANS FOR SEDIMENTATION BASINS THAT HAVE BEEN DESIGNED PER SECTION 2.2.17 AND STAMPED BY AN OREGON PROFESSIONAL ENGINEER, (SEE SECTION 2.2.17.A)
- 27, IF ENGINEERED SOILS ARE USED ON SITE, A SEDIMENTATION BASIN/IMPOUNDMENT MUST BE INSTALLED. (SEE SECTIONS 2,2.17 AND 2.2.18)
- 28, PROVIDE A DEWATERING PLAN FOR ACCUMULATED WATER FROM PRECIPITATION AND UNCONTAMINATED GROUNDWATER SEPAGE DUE TO SHALLOW EXCAVATION ACTIVITIES, (SEE SECTION 2.4)
- 29, IMPLEMENT THE FOLLOWING BMPS WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE AND SUPPLIES. (SECTION 2.3)
- 30. USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL, (SECTION 2.2.9)
- 31, THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS, EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (SECTION 2.3,5)
- 32. IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM, OBTAIN ENVIRONMENTAL MANAGEMENT PLAN APPROVAL FROM DEQ BEFORE OPERATING THE TREATMENT SYSTEM, OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SECTION 1.2.9)
- 33. TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED, THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR, (SECTION 2.2)
- 34. AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPS MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. (SECTION 2.2.8)
- 35. SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL. (SECTION 2.1,6,8)
- 36. OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL (SECTION 2.1.5.C.)
- 37. CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT, SEDIMENT BASINS AND SEDIMENT TRAPS; REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT. (SECTION 2.1.5.D)
- 38. WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED, INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS, ANY IN-STREAM CLEAN-UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIMEFRAME. (SECTION 2.2.19.A)
- 39. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR, VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED
- 40. DOCUMENT ANY PORTION(S) OF THE SITE WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS, (SECTION 6.6.F.)
- 41, PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER, LOOSE STRAW, OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE, (SECTION 2,2,20)
- 42, DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED, ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND RETAINED MOVED AND DISPOSED OF PROPERLY, UNLESS NEEDED FOR LONG TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE, (SECTION







/IEW ROBY'S FURNITURE ESCP General Notes General Notes

ISSUED: 05/28/2021

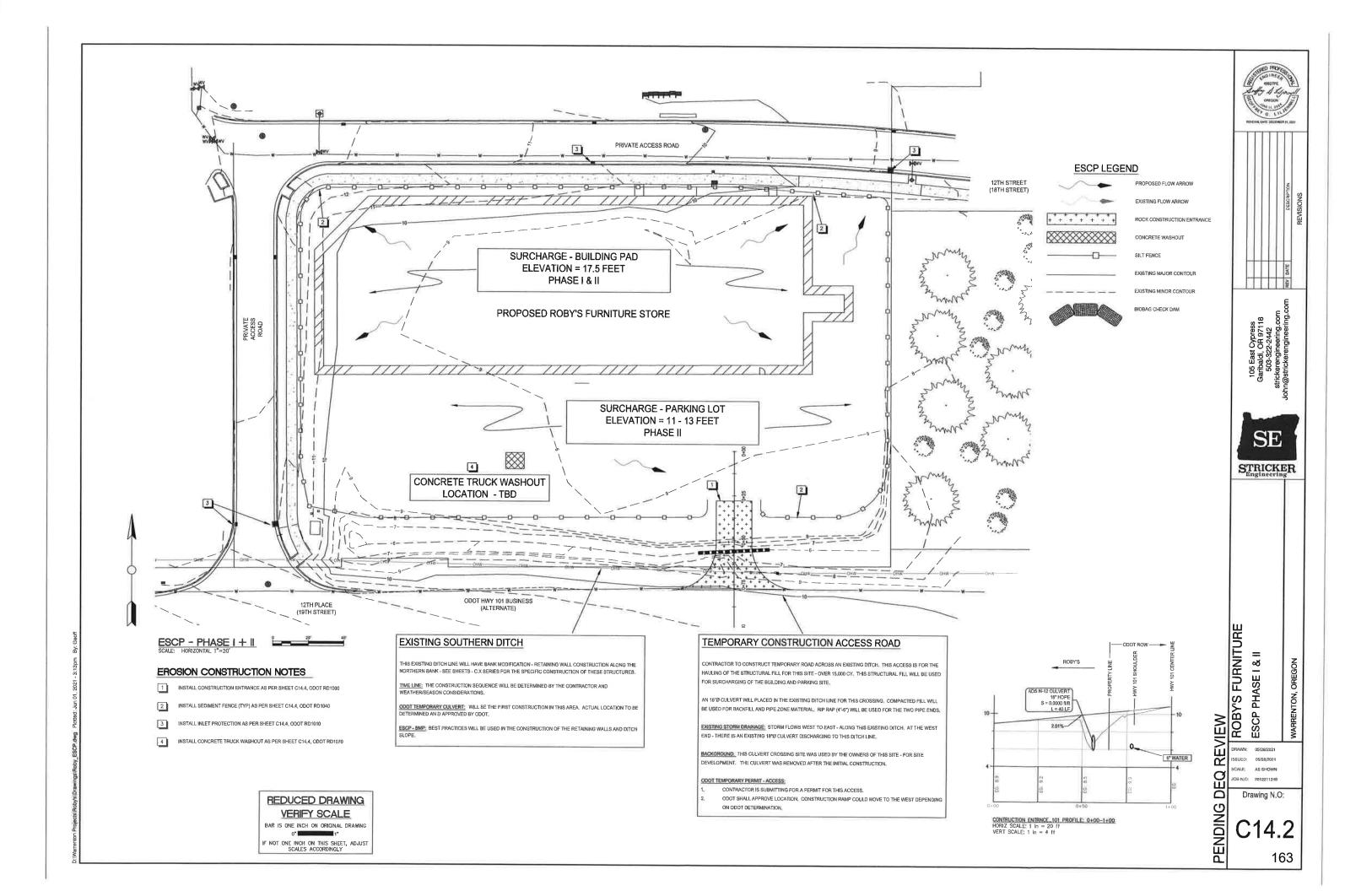
CALE: AS SHOWN 08 N.O: 2012211249

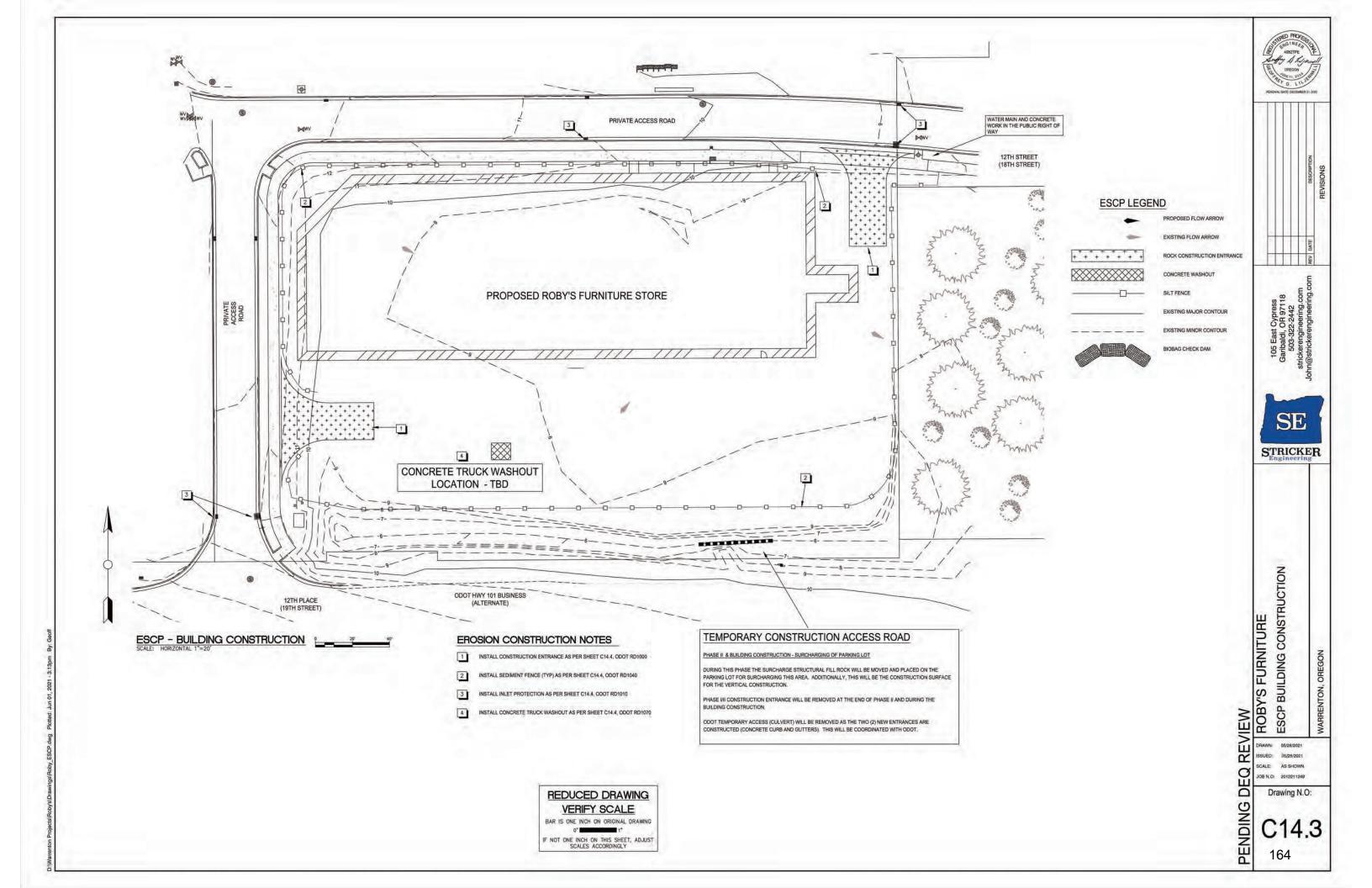
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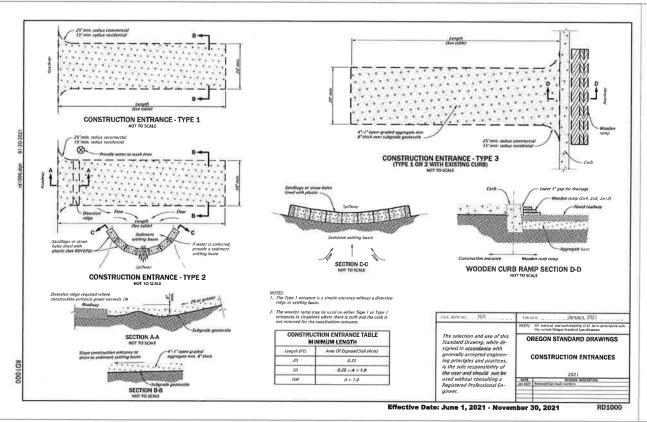
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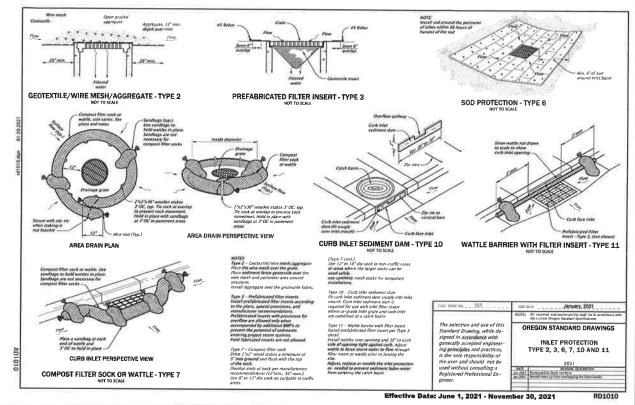
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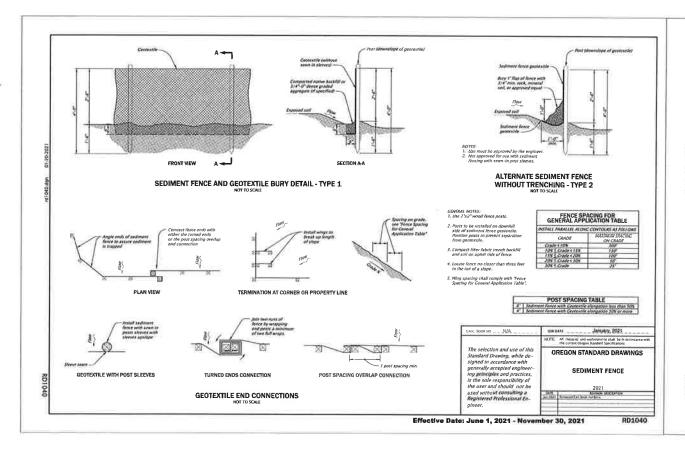
Drawing N.O:

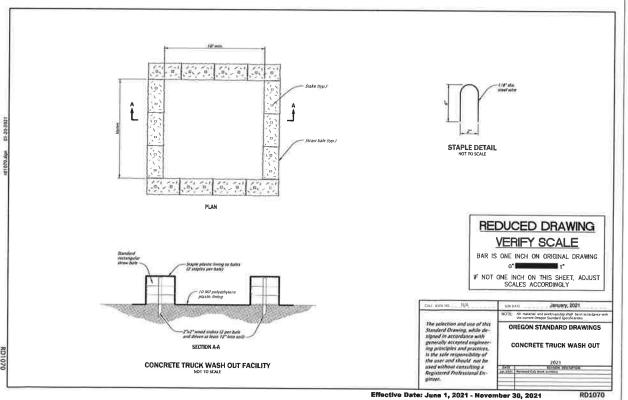








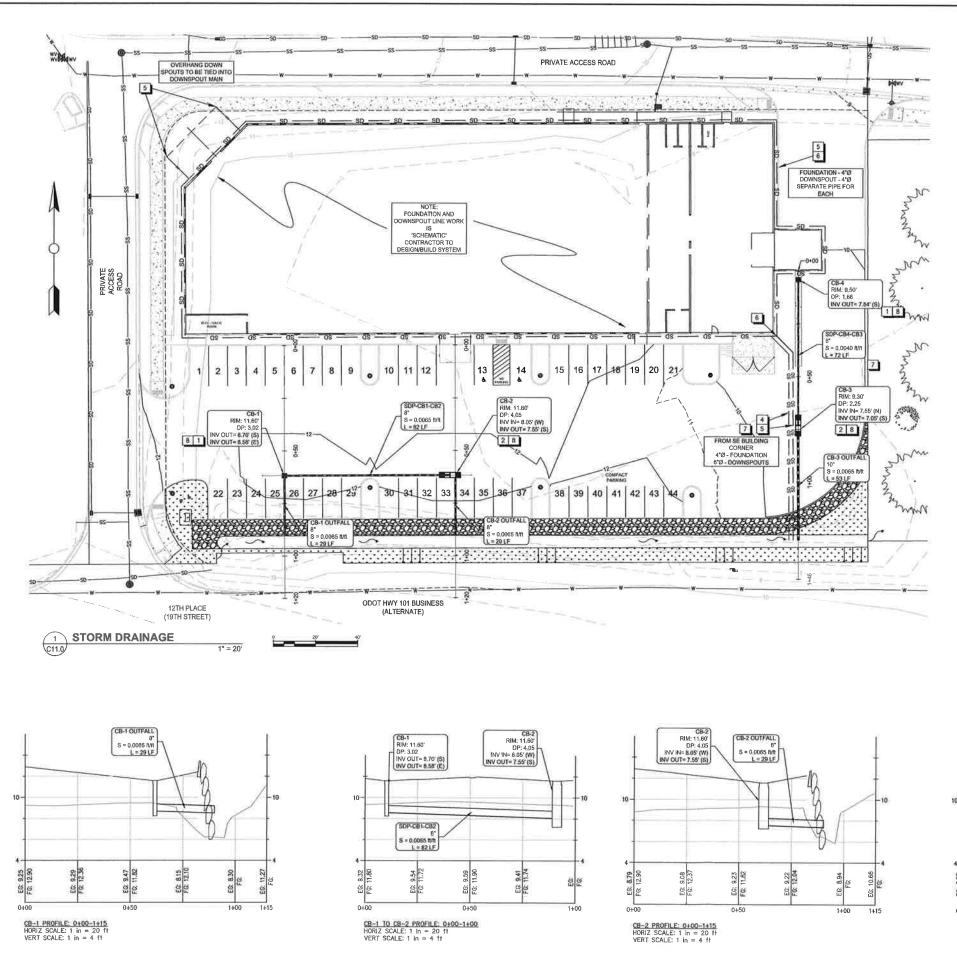






RAWN: 05/28/2021 SSUED: 05/28/2021 SCALE: AS SHOWN JOB N.O: 2012211249 PENDING

Drawing N.O: C14.4



#### STORM DRAINAGE CONSTRUCTION NOTES

- FURNISH AND INSTALL ODOT TYPE 3 CATCH BASIN WITH 6" RISER WI6" CONCRETE RISER. SEE DETAIL 2, SHEET C11.1 AND DOOT DETAIL RD. 376.
- FURNISH AND INSTALL CONTECT CONCRETE CATCH BASIN STORMFILTER DUAL UNIT, SEE SHEET C11,1, ALL CONTECH CATCH BASIN STORMFILTER UNITS TO BE PROVIDED WITH ANTI-BUOYANCY RINGS,
- FURNISH AND INSTALL 6" PVC ASTM 3034 PVC PIPE SHALL BE USED AS PER TRENCH DETAIL 1, SHEET C11,1
- 4 FURNISH AND INSTALL 6" PVC ASTM 3034 PVC PIPE SHALL BE USED AS PER TRENCH DETAIL 1, SHEET C11.1 5 FURNISH AND INSTALL 4" PVC ASTM 3034 PVC PIPE SHALL BE USED AS PER TRENCH DETAIL 1, SHEET C11.1
- 6 FURNISH AND INSTALL CHECK VALVE FOR FOUNDATION DRAIN - LOCATION TO BE DETERMINED IN FIELD AND
- FOR STORM PIPES (STORM, FOUNDATION, AND DOWNSPOUTS) CONTROLLED DENSITY FILL (CDF CONTROLLED LOW STRENGTH MATERIALS ODDT SECTION 00442) SHALL BE USED WITH PIPES LESS THAN 24° OF COVER, THIS SHALL BE IN VEHICLE TRAVEL AREAS.
- PER GEOTECHNICAL REPORT, OVER-EXCAVATE BENEATH ALL CATCH BASINS AND PROVIDE 2 FT TO 4 FT OF STRUCTURAL FILL AS FOUNDATION SUPPORT, INSTALL MIRAFI 500X OR APPROVED EQUAL GEOTECHNICAL TEXTILE BETWEEN EXISTING GROUND SUB-BASE AND STRUCTURAL FILL.

Structure Table					
Structure Name	Structure Details				
CB-3	RIM = 9,30' SDP-CB4-CB3 INV IN = 7,55' CB-3 OUTFALL INV OUT = 7,05'				
CB-4	RIM = 9,50' SDP-CB4-CB3 INV OUT = 7,84'				
CB-1	RIM = 11,60' CB-1 OUTFALL INV OUT = 8,70' SDP-CB1-CB2 INV OUT = 8,58'				
CB-2	RIM = 11,60' SDP-CB1-CB2 INV IN = 6,05' CB-2 OUTFALL INV OUT = 7,55'				

			PIPE	TABLE - Slorm			
NAME	SIZE	START	END	LENGTH (±)	SLOPE	START INV	END INV
SDP-CB4-CB3	6"	CB-3	CB-4	72'	0,40%	7,55'	7,84'
CB-3 OUTFALL	10°	CB-3		52'	0.65%	7.05'	6,71'
CB-2 OUTFALL	8"	CB-2		29'	0.65%	7,55'	7,36'
SDP-CB1-CB2	8"	CB-1	CB-2	81'	0,65%	8,58'	8,05'
CB-1 OUTFALL	6*	CB-1		28'	0,65%	8.70'	8.52

#### FOUNDATION AND DOWNSPOUT STORM DRAINAGE NOTES

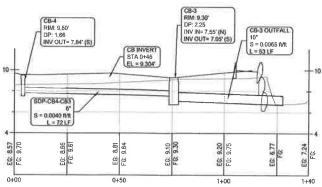
DESIGN -- BUILD: CONTRACTOR SHALL FURNISH AND INSTALL ALL DRAINAGE SYSTEMS. COMMON DESIGN ELEMENTS:

- a, 4° OR 6" ASTM 3034 SDR 35 PVC PIPE GASKETED JOINTS
- 6. CLEANOUTS INSTALLED AS PER COMMON TRADE PRACTICE, CONTRACTOR TO PROVIDE DRAWING SHOWING LOCATIONS. CLEANOUTS TO BE BROUGHT TO THE SURFACE, CLEANOUTS IN CONCRETE OR ASPHALT SHALL BE CAST
- c. TRACER WIRE INSTALLED AND BROUGHT UP BY CLEANOUTS.
- d. PVC MAINS TO HAVE A MINIMUM OF 2 FEET OF COVER OVER PIPE IN CONCRETE AND ASPHALT AREAS.
- 9. DRAINS TO HAVE A MINIMUM OF 1/4" PER 12" GRADE ONCE PAST THE BUILDING GOING TO THE DRAINAGE (SOUTH). CONTRACTOR TO VERIFY DEPTHS AND GRADES, PRIOR TO INSTALLATION.
- f. NOTE: PLAN DRAWING IS SCHEMATIC ONLY CONTRACTOR TO PROVIDE DRAWING WITH GRADES AND DEPTHS PRIOR TO INSTALLATION.
- FOUNDATION DRAIN
- a; SHALL DESIGN AND INSTALL AS PER GEO -TECH'S DETAIL 3, SHEET C11.1.

#### DOWN SPOUTS

- a. SHALL DESIGN AND BUILD.
- b. 4'Ø PIPE SHALL BE USED AROUND THE PERIMETER OF THE BUILDING. 6'Ø WILL BE USED FOR THE OUTFALL PIPING.
- c. CONTRACTOR TO PROVIDE:

- c.a. LOCATION AND NUMBER OF DOWNSPOUTS
  c.b. EACH DOWNSPOUT SHALL HAVE WYE AND THREADED PLUG CLEANOUT
  c.c. SUBMITTAL ON DOWNSPOUTS (SQUARE OR ROUND)
  c.d. SUBMITTAL ON DPIPE FITTING DOWNSPOUT (SQ. OR ROUND) TO WYE



C8-3 PROFILE: 0+00-1+40 HORIZ SCALE: 1 in = 20 ff VERT SCALE: 1 in = 4 ft

105 East (Garibaldi, (503-32)



& PROFILES STORMWATER DRAINAGE--PLAN FURNITURE

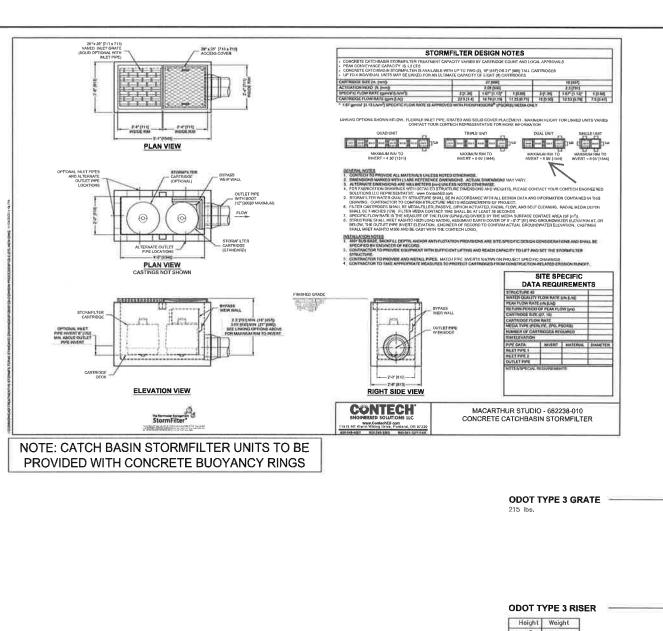
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ROBY

PAWN: 05/28/202 SCALE: AS SHOWN OB N.O: 2012211249

Drawing N.O:

S ERMIT C11.0



CONTROLLED LOW STRENGTH MATERIALS

ODOT SECTION 00442 (CLSM - CDF): SHALL BE USED

FOR ANY PIPE WITH LESS THAN 24 INCHES OF COVER

TYPICAL STORM/WATER/SEWER TRENCH DETAIL

- FINISH GRADE

——(1)SURFACE RESTORATION

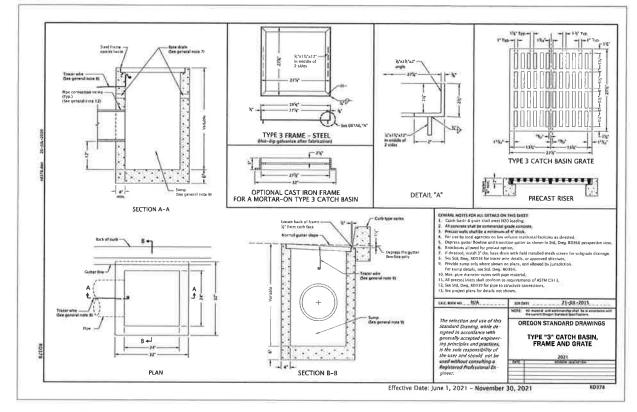
- ②TRENCH BACKFILL TRACER WIRE - 12 GA

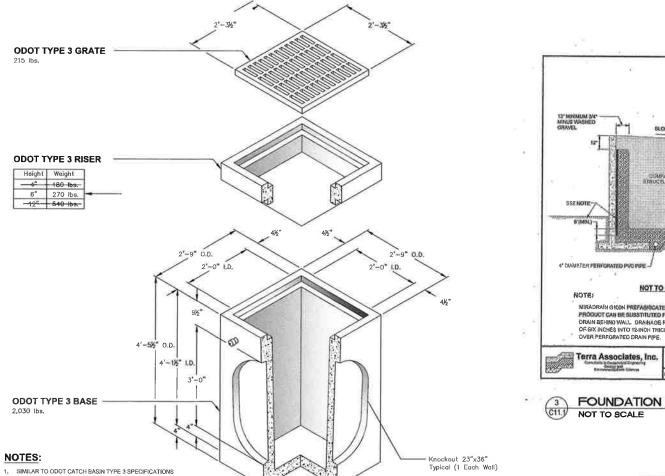
4) PIPE BEDDING

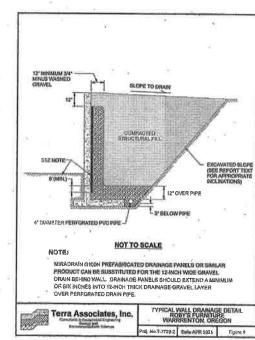
(5) OVER EXCAVATION & TRENCH FOUNDATION

TRENCH FOUNDATION DEPTH 2' TO 4' PLUS LAYER OF GEO-TEXTILE

WATER - BLUE SEWER - GREEN STORM - GREEN







FOUNDATION DRAIN

REDUCED DRAWING **VERIFY SCALE** BAR IS ONE INCH ON ORIGINAL DRAWING

 $\overline{\mathbf{S}}$ ERMIT

OB N.O: 2012211249 Drawing N.O:

C11.1 167

SE

STRICKER

QUALITY TREATMENT

STORMWATER WATER

DETAILS -

RAWN: 05/28/2021

SCALE: AS SHOWN

FURNITURE

ROBY'S

\* ALL DIMENSIONS SHOWN ARE MINIMUM AND RELATIVE TO OUTSIDE OF PIPE BELL TRENCH MATERIAL: 1 MATCH FINISH GRADE MATERIALS AS SHOWN ON PLANS, ② COMPACTED 3/4"-0" CRUSHED ROCK GEO-TECH REPORT
THE VERY SOFT, FINE-GRAINED NATIVE SORS WILL BE UNSUITABLE FOR SUPPORT OF BURIED UTILITY PIPES. THE CONTRACTOR SHOULD BE PREPARED TO OVER EXCAVATE TWO TO FOUR FEET OF NATIVE SOIL FROM BELOW THE PIPI INVERT ELEVATION AND REPLACE IT WITH CRUSHED ROCK OR BEDDING AGGREGATE PLACED OVER A GEOTEXTILE PARATION FABRIC SUCH AS MIRAFI 500X TO ESTABLISH A

NOTES:

STORM MAIN = 24" WATER MAIN = 30" SEWER MAIN = 36"

OVER EXCAVATE & INSTALL 1-1/2\* MINUS COMPACTED CRUSHED ROCK IF TRENCH FOUNDATION STABILIZATION IS REQUIRED, PER GEOTECHINGAL REPORT, EXPECT 2'-4' OVER EXCAVATION REQUIREMENT,

STABLE PIPE FOUNDATION.

NOT TO SCALE

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

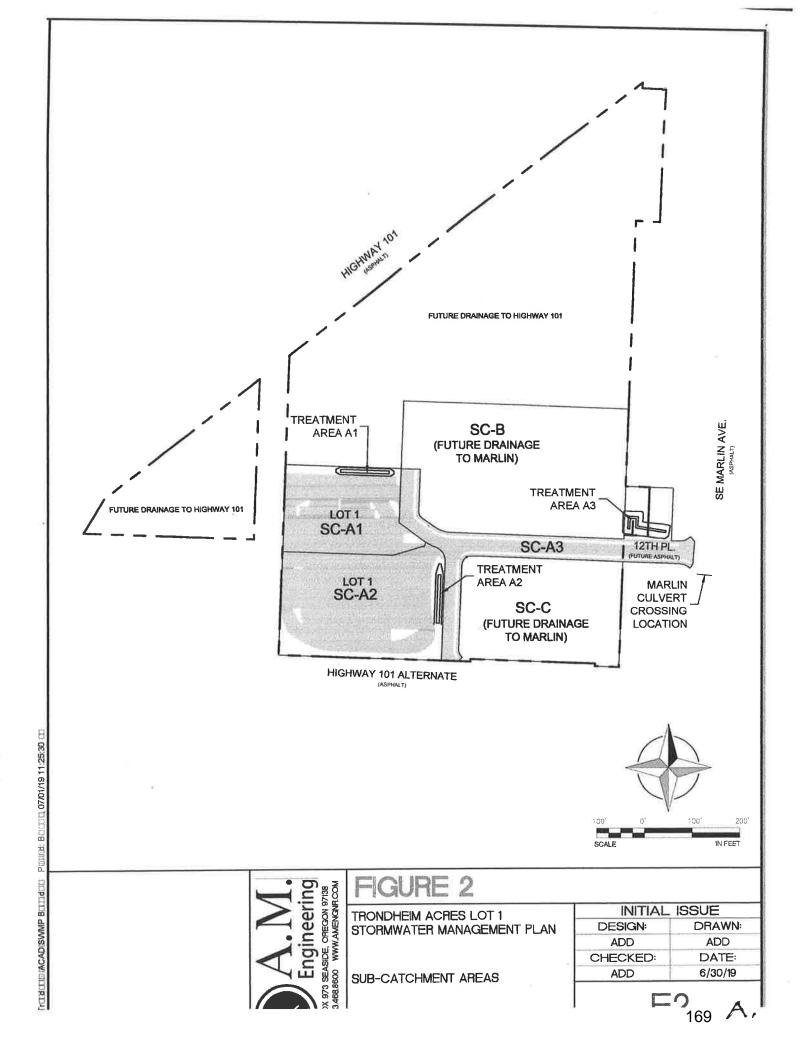
2 CONCRETE CATCH BASIN - TYPE 3 ODOT

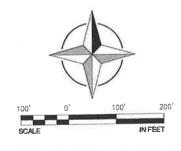
STANDARD DRAWING NO. RD378.

2. FURNISH AND INSTALL 6" CONCRETE RISER

## **APPENDIX 2**

A.M. Engineering, Trondheim Acres, Lot 1 SWMP Information







Plotted: By ame, 07/01/19 9:08:01 am

Trondheim\ACAD\EXST DRAINAGE.dwg

## FIGURE 3

TRONDHEIM ACRES LOT 1 STORMWATER MANAGEMENT PLAN

ALT 101 CULVERT STORMWATER CONTRIBUTION

INITIAL ISSUE					
DESIGN:	DRAWN:				
ADD	ADD				
CHECKED:	DATE:				
ADD	6/30/19				

F3

B

E:\AME\\_Projects\18007 Trondheim\Stormwater\
Trondheim Lot 1 ALT 101 Culvert Storm

Prepared by A.M. Engineering
HydroCAD® 10.00-24 s/n M15518 © 2018 HydroCAD Software Solutions LLC

Type IA 24-hr 100 year Rainfall=6.10" Printed 06/22/19 9:19:01 pm

Page 1

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SBUH method, Split Pervious/Imperv.
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentD: Alt 101 Exist Cond

Runoff Area=602,599 sf 8.63% Impervious Runoff Depth>1.03" Tc=5.0 min CN=46/98 Runoff=2.02 cfs 1.183 af

Total Runoff Area = 13.834 ac Runoff Volume = 1.183 af Average Runoff Depth = 1.03" 91.37% Pervious = 12.640 ac 8.63% Impervious = 1.194 ac

Prepared by A.M. Engineering
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Type IA 24-hr 100 year Rainfall=6.10"
Printed 06/22/19 9:19:01 pm
tions LLC Page 2

## Summary for Subcatchment D: Alt 101 Exist Cond

Runoff

= 2.02 cfs @

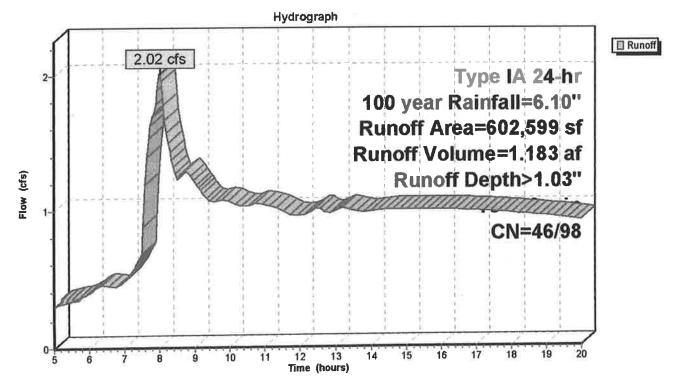
8.01 hrs, Volume=

1.183 af, Depth> 1.03"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type IA 24-hr 100 year Rainfall=6.10"

	Α	rea (sf)	CN	Description			
	1	36,881	75	1/4 acre lot	s, 38% imp	0	
	4	65,718	43	Woods/gras	s comb., F		
	6	602,599 50 Weighted Average					
	5	50,584		91.37% Per			
		52,015		8.63% Impe	ervious Area	a	
	Tc	Length	Slope (ft/ft)	-	Capacity (cfs)	Description	
2	(min)	(feet)	(IVIL)	(IDSec)	(615)	Discost France	
	5.0					Direct Entry,	

## **Subcatchment D: Alt 101 Exist Cond**



## \\AME-NAS\\Projects\18007 Trondheim\\Stormwater\

Trondheim Lot 1

Prepared by A.M. Engineering

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Type IA 24-hr 100 year Rainfall=6.10" Printed 06/30/19 10:17:44 pm

Page 1

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SBUH method, Split Pervious/Imperv.
Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

SubcatchmentA1: Lot 1 North Runoff Area=44,860 sf 88.25% Impervious Runoff Depth>4.27"

Tc=5.0 min CN=61/98 Runoff=1.36 cfs 0.366 af

SubcatchmentA2: Lot 1 South Runoff Area=73,148 sf 83.54% Impervious Runoff Depth>4.13"

Tc=5.0 min CN=61/98 Runoff=2.13 cfs 0.578 af

Subcatchment A3: Alternate and 12th Runoff Area=39,405 sf 82.14% Impervious Runoff Depth>4.09"

Tc=5.0 min CN=61/98 Runoff=1.13 cfs 0.308 af

SubcatchmentB: Future Development Runoff Area=118,863 sf 85.00% Impervious Runoff Depth>4.17"

Tc=5.0 min CN=61/98 Runoff=3.51 cfs 0.949 af

SubcatchmentC: Future Development Runoff Area=70,800 sf 85.00% Impervious Runoff Depth>4.17"

Tc=5.0 min CN=61/98 Runoff=2.09 cfs 0.565 af

Total Runoff Area = 7.968 ac Runoff Volume = 2.767 af Average Runoff Depth = 4.17" 15.21% Pervious = 1.212 ac 84.79% Impervious = 6.756 ac Prepared by A.M. Engineering

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Page 10

## **Summary for Subcatchment C: Future Development**

Runoff

2.09 cfs @

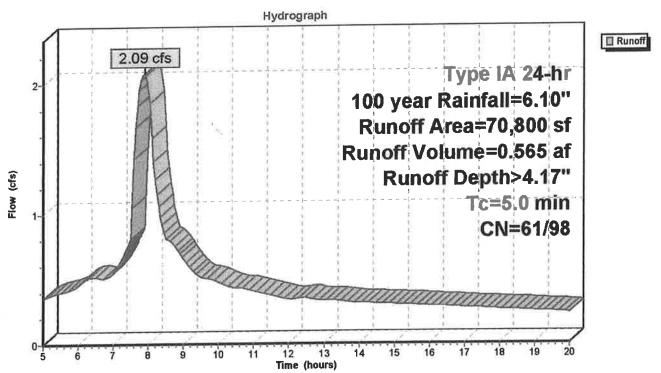
7.90 hrs, Volume=

0.565 af, Depth> 4.17"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type IA 24-hr 100 year Rainfall=6.10"

	P	rea (sf)	CN	Description					
*		60,180	98	Asphalt and building roof					
		10,620	61	>75% Gras	s cover, Go	ood, HSG B			
		70,800	92	Weighted A					
		10,620		15.00% Pervious Area					
		60,180		85.00% lmp	pervious Ar	rea			
	Tc (min)	Length (feet)	Slope (ft/ft		Capacity (cfs)	Description			
\ <del></del>	5.0	- Name of the second				Direct Entry,			

## **Subcatchment C: Future Development**



**Trondheim Lot 1** 

Type IA 24-hr 100 year Rainfall=6.10" Printed 06/30/19 10:17:44 pm

Prepared by A.M. Engineering
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## Hydrograph for Subcatchment C: Future Development

Time	Precip.	Perv.Excess	Imp.Excess	Runoff
(hours)	(inches)	(inches)	(inches)	(cfs)
5.00	0.95	0.00	0.74	0.36
5.50	1.10	0.00	0.89	0.41
6.00	1.26	0.00	1.04	0.45
6.50	1.45	0.00	1.23	0.53
7.00	1.63	0.02	1.41	0.56
7.50	1.89	0.05	1.67	0.81
8.00	2.59	0.22	2.36	2.04
8.50	2.93	0.34	2.70	0.81
9.00	3.17	0.43	2.94	0.66
9.50	3.35	0.51	3.12	0.51
10.00	3.52	0.58	3.29	0.48
10.50	3.67	0.65	3.43	0.43
11.00	3.81	0.72	3,57	0.41
11.50	3.93	0.78	3.70	0.38 0.35
12.00	4.05 4.17	0.84 0.90	3.82 3.93	0.35
12.50 13.00	4.17	0.96	4.04	0.33
13.50	4.39	1.02	4.15	0.33
14.00	4.49	1.07	4.25	0.31
14.50	4.59	1.13	4.36	0.31
15.00	4.69	1.19	4.46	0.30
15.50	4.79	1.24	4.55	0.30
16.00	4.89	1.30	4.65	0.29
16.50	4.98	1.36	4.74	0.28
17.00	5.07	1.41	4.83	0.28
17.50	5.16	1.47	4.92	0.27
18.00	5.25	1.52	5.01	0.26
18.50	5.33	1.57	5.09	0.26
19.00	5.41	1.62	5.17 5.25	0.25 0.24
19.50	5.49 <b>5.57</b>	1.67 <b>1.72</b>	5.25 <b>5.33</b>	0.24
20.00	5,57	1.72	J.JJ	0.24

Type IA 24-hr WQ Rainfall=1.50" Printed 06/30/19 10:17:45 pm

Prepared by A.M. Engineering

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Page 21

## Summary for Subcatchment C: Future Development

Runoff

0.46 cfs @

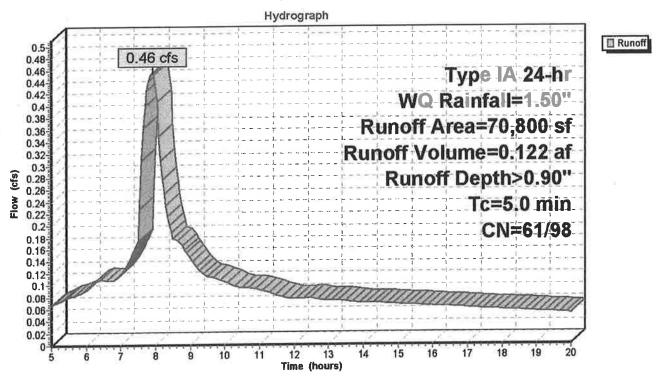
7.91 hrs, Volume=

0.122 af, Depth> 0.90"

Runoff by SBUH method, Split Pervious/Imperv., Time Span= 5.00-20.00 hrs, dt= 0.05 hrs Type IA 24-hr WQ Rainfall=1.50"

	Α	rea (sf)	CN	<b>Description</b>					
*		60,180	98	98 Asphalt and building roof					
		10,620	61	>75% Gras	s cover, Go	od, HSG B			
-		70,800 92 Weighted Average 10,620 15.00% Pervious Area 60,180 85.00% Impervious Area		my	ν. 9	e			
	Tc (min)	Length (feet)	Slope (ft/ft)		Capacity (cfs)	Description			
-	5.0			, , , , , , , , , , , , , , , , , , ,		Direct Entry,			

## **Subcatchment C: Future Development**



**Trondheim Lot 1** 

Type IA 24-hr WQ Rainfall=1.50"

Printed 06/30/19 10:17:45 pm

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## Hydrograph for Subcatchment C: Future Development

Time	Precip.	Perv.Excess	Imp.Excess	Runoff
(hours)	(inches)	(inches)	(inches)	(cfs)
5.00	0.23	0.00	0.09	0.07
5.50	0.27	0.00	0.12	0.08
6.00	0.31	0.00	0.15	0,09
6.50	0.36	0.00	0.19	0.11
7.00	0.40	0.00	0.23	0.12
7.50	0.47	0.00	0.29	0.17
8.00	0.64	0.00	0.44	0.45
8.50	0.72	0.00	0.52	0.18
9.00	0.78	0.00	0.58	0.15
9.50	0.82	0.00	0.62	0.11
10.00	0.87	0.00	0.66	0.10
10.50	0.90	0.00	0.70	0.09
11.00	0.94	0.00	0.73	0.09
11.50	0.97	0.00	0.76	0.08
12.00	1.00	0.00	0.79	0.08
12.50	1.02	0.00	0.81	0.08
13.00	1.05	0.00	0.84	0.07
13.50	1.08	0.00	0.87	0.07
14.00	1.10	0.00	0.89	0.07
14.50	1.13	0.00	0.92	0.07
15.00	1.15	0.00	0.94	0.07
15.50	1.18	0.00	0.96	0.07
16.00	1.20	0.00	0.99	0.06
16.50	1.22	0.00	1.01	0.06
17.00	1.25	0.00	1.03	0.06
17.50	1.27	0.00	1.05	0.06
18.00	1.29	0.00	1.07	0.06
18.50	1.31	0.00	1.09	0.06
19.00	1.33	0.00	1,11	0.05
19.50	1.35	0.00	1,13	0.05
20.00	1.37	0.00	1.15	0.05
25.00	,,,,,	•.••		

## **APPENDIX 3**

**Storm Drainage Calculations** 

Project No. 2012211249

DATE: 5/20/21 (Revised 5/20/21, DWL)

By: David Leibbrandt, P.E., Stricker Engineeering

<u>PROJECT:</u> ROBY'S FURNITURE AND APPLIANCE, Proposed Store, Warrenton, Oregon

PROJECT LOCATION: East Portion of Lot 1, Trondheim Acres

TASK: Storm Drainage System/SWMP Calculations

### **GIVEN:**

General--Proposed 28,000 SF store building on 71,000 SF lot with open drainage ditch at south side and existing piped stormdrainage sytem, draining south to north on west side and west to east on north side. Open ditch conveys upstream flow routed across Alt. Hwy 101 from the south and discharges across undeveloped forested lot to the east (appears as wetlands). Northside system drains into bioswale treatment facility located on vacant lot to north, reportedly sized to accept Water Quality flow from subject site. Previously completed stormwater management plan completed as part of Tractor Supply Development, addressed stormwater considerations of subject site (Referencing: Trondheim Acres Lot 1, SWMP, A.M. Engineering, June 30, 2019).

Proposed Design Concepts--Reference attached Site Drainage & Grading Plan. Proposed concepts provide for:

- 1) Roof Drainage—Collect and route directly south to open ditch.
- 2) South Parking Lot and SE Loading Area—Collect all run-off in catch basins:
  - a. CB-1—Route WQ flow east into CB-2 treatment catchbasin. By-pass 100-yr storm flow directly to south ditch.
  - b. CB-2—Treat CB-1 and CB-2 catchment area WQ flow and route south to existing open ditch. By-pass CB-2 100-yr storm flow directly to south ditch.
  - c. CB-3—Treat CB-3 catchment area WQ flow and route south to existing open ditch. By-pass CB-3 100-yr storm flow directly to south ditch.
- 3) NE Truck Entrance Drainage—Collect and route northeast directly into existing CB.
- 4) Regrading of South Ditch—6-ft bottom width trapezoidal channel with slope at 0.0026 FT/FT

REQUIRED: 1) Check/confirm hydraulic capacity of regraded ditch relative to estimated flows, 2) Calculate flow allocations to each catchbasin and confirm adequate StormFilter treatment capacity, 3) estimate NE Truck Entrance flow allocation and check against planned contribution to northerly WQ bio-swale facility and 4) Establish minimum pipe sizes, design invert elevations and pipe slopes and confirm pipeline capacities for 100-year storm event.

### **SOLUTION:**

- 1. Ditch/Channel Capacity:
- A) Estimate 100-year storm flow and check ditch hydraulic capacity:
- From A.M. Engineering, Trondheim Acres Lot 1 SDMP (SEE APPENDIX 2):
- -100-yr Storm flow contribution from subcatchment south of Alt. Hwy 101 = 2.02 cfs
- -100-yr Storm flow contribution from Subcatchment C (East Portion of Lot 1)=2.09 cfs, based on:

Total Gross Area = 70,800 SF 15% Imperv Area = 10,620 SF Net Impervious Area = 60,180 SF

Total  $Q_{100-yr}$ =2.02 cfs + 2.09 cfs = 4.11cfs

B) Applying Chezy-Manning Equation, with 1:1 sideslopes for calculation simplicity...see attached calculation:

For a flow of 4.1 cfs: Flow Depth = 1.25 ft Velocity = 0.449 ft/s

Note: Average channel depth = 3 ft, therefore, say, OK. And, 0.449 ft/s is well below 2 fps scour velocity, therefore, say, OK.

Plus, actual flow in from site will enter the ditch at approximately 1/3 points along the ditch, so noted total flow will only be evident at lower end of ditch.

2.1 Calculate net flow allocation to catchbasins:

Per above ref'd A.M. SWMP, for Subcatchment C (East Portion of Lot 1):

Total  $Q_{100-yr} = 2.09$  cfs, and Total  $Q_{WO} = 0.46$  cfs (Based on a total lot area of 70,800 sf and a total impervious area of 60,180 sf, with a 15% allocation to landscaped areas.)

And from Tables SD.1 & 2, net WQ flow associated with paved areas where SW is to be treated:

 $Q_{WQnet} = 0.46 \text{ cfs } X.53 = 0.24 \text{ cfs}$ 

Attached Tables SD.1 and SD.2 show estimated drainage allocations, for both the 100-year Storm and the determined Water Quality Storm, to key stormwater facilities based on area prorations of individual element sub-catchments. Note, the difference between A.M. Engineering's reported 60,180 sf and the 59,210 sf shown in Table SD.1, is attributed to NW corner entrance plaza and west-side sidewalks that will drain into local vicinity planters.

For stormwater treatment associated with paved areas, flow allocations to key features are as follows:

**CB-1**:

0.06 cfs

**CB-2**:

0.07 cfs

CB-3:

**0.10** cfs

NE Truck Entr. 0.005 cfs

WO flow attributed to CB-1 & CB-2 will be combined via side piping and treated at CB-2 StormFilter facilities.

WQ attributed to the NE Truck Entr. will be treated in the northerly off-site WQ treatment facility, reportedly sized to accept this project site's full WQ flow.

2.2 Check estimated 100-Year Storm and WQ storm flow allocations with respect to proposed StormFilter treatment capacities.

Per Contech design criteria StormFilter 18" treatment cartridge capacity = 15 gpm (0.033cfs), with a DUAL UNIT (4-18" cartridges) model providing, 4 X 0.033 cfs = 0.132 cfs capacity.

And,
Overflow Capacity = 1.0 cfs

Referencing, Table SD.2, with CB-1 WQ flow combined at CB-2, we see flow allocations to CB-2 and CB-3, where StormFilter treatment facilities are, as follows:

CB-2  $_{\text{WQ Flow}}$  = CB-1 WQ Alloc. + CB-2 WQ Alloc. = 0.06 + 0.07 = 0.13 cfs And at CB-3, we have:

CB-3 WO Flow = 0.10 cfs

Both flow allocations are less than or equal to the allowable 0.13 cfs StormFilter design capacity, therefore, say OK.

Checking high-flow hydraulic capacity:

 $CB-1_{100-YrQ} = 0.272 cfs$ 

 $CB-2_{100-YrQ} = 0.334 cfs$ 

CB-3  $_{100-YrQ} = 0.449$  cfs

All flow allocations < 1.0 cfs design capacity, therefore, say OK.

3. In checking estimated stormwater conditions at the NE Truck Entrance, we can compare the 100-Yr Storm allocation here, with the total site WQ Storm flow, reportedly expected at the northerly offsite WQ treatment facility and find:

NE Trk Entr. 100-Yr Q = 0.031

This flow is much less than (about 1/10th) the total site WQ Storm flow estimate of 0.24 cfs, therefore we can safely say, we are OK routing this small portion of site flow north into this facility.

4) As to pipe sizes and pipe slopes, the City of Warrenton has establishes minimum stormdrain pipe size of 8-inches diameter.

Refering to Figure 4, nomograph, showing FLOW FOR CIRCULAR PIPE FLOWING FULL, Based on Manning's Equation and n=0.012, we see that for 8-inch diameter pipe, flowing at minimum full flow velocity of 3 fps for scour, we find we need a minimum pipe slope of 0.0065 ft/ft and a full-pipe flow capacity of 5.3 cfs. Looking at the Q 100-Yr at CB-3, where we have our highest subcatchment flow allocation, we have:

Ratio:

**Q Actual/Q Full-Pipe** = 0.523 cfs/5.3cfs = 0.10

Referencing, Figure 20, RELATIVE VELOCITY AND FLOW IN CIRCULAR PIPE FOR ANY DEPTH OF FLOW, we find:

For "Portion of Value for Full Flow" = 0.10, we have Depth of Flow = 0.21 (Pipe Diameter)=0.21 (8-inches) = 1.68-inches flow depth.

Therefore, we can generally conclude that the City's minimum pipe size of 8-inches diameter, will be more than adequate from a capacity standpoint for all site's stormwater piping.

Starting with the CB-1 & CB-2 interconnected system...At CB-1 we have:

CB-1 Rim Elevation = 11.6 ft (See Plans)

If we set the top of the overflow outlet pipe at 2-ft, minimum cover, we have top of outfall pipe elevation @ CB-1:

CB-1 Top Outfall OF Pipe Elev = 11.6ft - 2.0ft = 9.6ft

With the approx. OD of 8-inch ID pipe being 9", or 0.75', we have then,

Outfall Pipe I.E. = 9.6ft - 0.75ft = 8.85ft And, if we use minimum grade, we have:

I.E.  $_{CB-1 OF/Outfall} = 8.85ft - (13ft X 0.0065ft/ft) = 8.05ft$ 

Checking the bottom of ditch elevation at the CB-1 location we find:

Bottom Ditch @ CB-1 = 6.4 ft + 278 ft X 0.0025 ft/ft = 7.22 ft

And, CB-1 outfall clearance above ditch bottom = 8.05 ft -7.22 ft = 0.83 ft Therefore, OK.

As we want flow to only enter the outfall overflow pipe after the max WQ rate has been reached, with the WQ flow being by-passed to CB-1 for treatment, we find the required WQ By-pass I.E. as follows:

Assume 8-inch Diameter WQ By-pass pipe, at minimum slope, for 3 fps velocity at full flow, then, similar to above, we have from attached Figure 4:

 $V_{Fall Pipe} = 0.65 \text{ ft/100ft}$ And,

Q Full = 1.1 cfs Since CB-1 WQ Flow from Table SD is 0.06 cfs, we have;

**Q WQ/Q Full Pipe** = **0.06** cfs/1.1 cfs = **0.05** 

And, from Figure 20, we have, then, D actual/D full = 0.15

And, then,  $D_{\text{actual}} = 0.15 (0.75 \text{ ft}) = 0.11 \text{ ft}$ 

Therefore, at CB-1, we want to set the invert elevation of the WQ By-pass, 0.11 feet below the invert-out elevation of the Overflow/Outfall Pipe, or:

I.E. By-pass Out = 
$$8.85 \text{ ft} - 0.11 \text{ ft}$$
  
=  $8.74 \text{ ft}$ 

And then, at CB-2, we have:

I.E.  $_{CB-1 \text{ By-pass in}} = 8.74 \text{ ft} - 78 \text{ ft X}$ 0.0065 ft/ft = 8.74 ft - 0.51 ft = 8.23 ft And, with Contech's spec'd minimum 6inch drop between I.E in and I.E. out in the Catch Basin StormFilter (See attached Mfr's cut-sheet), we have:

I.E. Out 
$$_{CB-2 SF} = 8.23 \text{ ft} - 0.50 \text{ ft}$$
  
= 7.73 ft

And, then, finally, we have for the CB-2 Overflow Outfall:

I.E.  $_{CB-2\ OF/Outfall} = 7.73\ ft - 13.5\ ft\ X$ 0.0065 ft/ft = 7.64 ft

Checking the ditch bottom elevation at this location, we have:

6.4 ft + 196 ft (0.0025 ft/ft) = 6.89 ft

And, at CB-2 the outfall clearance above ditch bottom = 7.64 ft -6.89 ft = 0.75 ft Therefore, OK.

Now, then focusing on CB-3, starting with the controlling downstream elevation ditch elevation, we have:

Ditch Bottom Elevation @ CB-3 = 6.41 ft + 35 ft X 0.0025 ft/ft = 6.41 ft + 0.09 = 6.5 ft

Adding a minimum **0.10** ft, lift we have:

I.E.  $_{CB-3 OF/Outfall} = 6.50 \text{ ft} + 0.10 \text{ ft} = 6.60 \text{ ft}$ 

Now, we know that we are grade limited here, so we try a 10-inch pipe at a slightly flatter grade than we can have with an 8-inch pipe:

From Figure 4, for 10-inch diameter pipe we have at a minimum velocity, V= 3 fps:

Slope = 0.50 ft/100ft, or 0.005 ft/ft Q full = 1.6 cfs

From Table SD.2: CB-3 WQ Flow = 0.10 cfs CB-3 100-Yr Q = 0.449 cfs

So, we confirm this pipe will not be expected to flow full, so capacity is OK.

Calculating the upstream invert elevation at CB-3, we have:

I.E.  $o_{\text{ut} CB-3} = 6.60 \text{ ft} + 45 \text{ ft } \text{X} \ 0.005 \text{ ft/ft}$ = 6.60 ft + 0.23 = 6.83 ft

Referencing Contech's mfr's cut-sheet, attached, the allowable minimum depth from CB-Rim to I.E. out is 2.3 ft.

Checking the designed CB-3 Rim Elevation:

**CB-3 Rim Elevation = 9.3 ft** 

And the difference of 9.3 ft -6.83 ft = 2.47 ft, which is greater than 2.3 ft, therefore, OK.

#### (Revised 5/20/21, DWL)

#### PROPOSED ROBY'S FURNITURE STORE

#### WARRENTON, OREGON

#### TABLE SD.1

#### SITE SUB-CATCHMENT AREAS

#### FLOW ALLOCATION PRORATIONS

Sub-Catchment	Sub-Catchment	100-Year Storm	Water Qual. Storm % of Net
Designation	Impervious Area (sf)	% of Total Impervious Area <sup>1</sup>	Impervious Area <sup>2</sup>
CB-1	7,920	13%	25.5%
CB-2	9,680	16%	31%
CB-3	12,676	21%	40.5%
NE Truck Entr	915	1.5%	3%
Roof	28,000	48%	N/A
Total	59,210 sf	100%	100%

- 1) Applies to all site impervious area.
- 2) Water Quality Net Area = Total Impervious Area Roof Area = 31,210 sf...

Resulting in the portion of Water Quality Flow attributed to paved area treatment facilities being = 31,210/59,210 = 0.53 (53%)

TABLE SD.2
SITE SUBCATCHMENTS/FLOW PRORATIONS

Description	100-	'r Storm	Water Quality Storm	
SubCatchment	Allocation	Flow, Q	Allocation	Flow, Q
Area	Proration	(cfs)	Proration	(cfs)
CB-1	13%	0.272	25.5%	.06
CB-2	16%	0.334	31%	.07
CB-3	21%	0.449	40.5%	.11
NE Truck Entr	1.5%	0.031	3%	.005
Roof	48%	1.00	N/A	N/A
				,
Totals	100%	2.09 cfs	100%	0.24 cfs <sup>1</sup>

1) Net WQ Storm Flow attributed to paved area treatment facilities = 0.46 cfs (0.53) = 0.24 cfs, where 0.46 cfs is the total calculated WQ Flow for the site and 53% is that portion of the flow associated with paved areas.

#### **Other Calculators**

- Air Flow Conversion Calculator
- → Atmospheric Calculator
- → Block Wall Calculator
- Goncrete Column
  Calculator
- Concrete Volume
  Calculator
- Energy Conversion
  Calculator
- isentropic Flow Relations
  Calculator
- Laser Real Time Unit
  Converter
- Normal Flow Relations
  Calculator
- Oblique Flow Relations
   Calculator
- Open-channel Flow Calculator
- Properties of Welds

  → Treated as Lines

  Calculator
- → Shaft Speed Calculator
- Torque Transmitted by Clutch Calculator
- → Water Pump Engineering
- → Back to ENGINEERING.com

Open-Channel Flow						
This calculator uses Chézy and Manning's formula to calculate the wetted perimeter, hydraulic radius, flow area, Chézy coefficient and flow velocity.						
For experimental values of Mann	ing's <b>n</b> factor, click here					
Required Information						
Enter the Slope:	.005f Enter the Channel Top Width (ft):	9				
Enter the Channel Bottom Width (ft):	6 Enter the Channel Height (ft):	1.5				
Enter the Flow Depth (ft):	1.5 Enter the n value:	.24				
Results						
The wetted perimeter is 10.2	ft The flow is 5.565	ft <sup>3</sup> /s				
The flow area is 11.2 ft <sup>2</sup> The flow is 2497.09 gal/min						
The hydraulic radius is 1.09 ft The velocity is 0.494 ft/s						
The C value is 6.306						
C	alculate Reset					

FIGURE 4



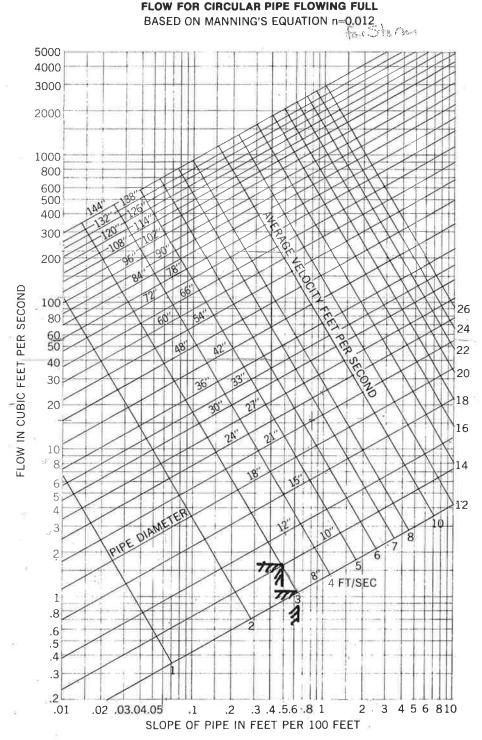
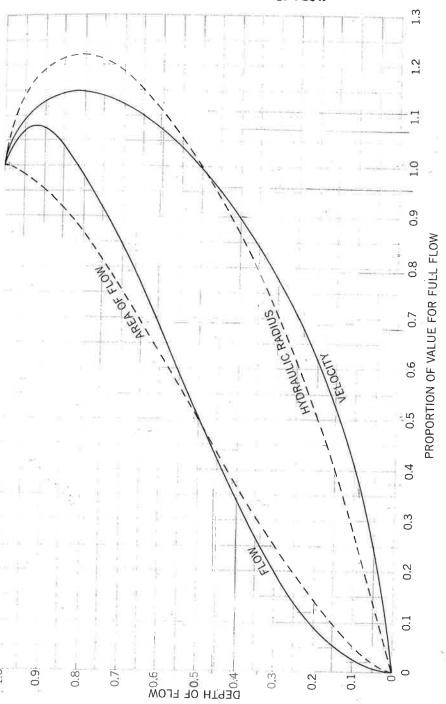


FIGURE 20

## RELATIVE VELOCITY AND FLOW IN CIRCULAR PIPE FOR ANY DEPTH OF FLOW



10

## **APPENDIX 4**

DEQ NPDES 1200-C PERMIT APPLICATION

#### **Oregon Department of Environmental Quality**



# Application For New NPDES General Permit 1200-C Coverage

Instructions for Completion of 1290-C Construction Stormwater Application: For stormwater discharges to surface waters from construction activities, disturbing one acre or more, or less than an acre but is part of a common plan of development or sale that do not meet automatic coverage requirements (see page 3 for additional information).

#### A PROJECT INFORMATION

- Enter the legal name of the responsible person (i.e. applicant). This must be the legal Oregon name (i.e., Acme Products, Inc.) or
  the legal representative of the company if it operates under an assumed business name (i.e., John Smith, dba Acme Products).
  The name must be a legal, active name registered with the Oregon Department of Commerce, Corporation Division (503)
  378-4752,(
  ), unless otherwise exempted by their regulations. The
  permit will be issued to the legal name of the applicant.
  - Permit coverage may be transferred from one party to another. For example, a developer may apply for a permit and then transfer the permit to a contractor. Transfer forms:
- Provide invoice contact information for billing of DEQ annual permit fee if different from the applicant in #1 above. This is the
  person or entity legally responsible for payment of the annual fee invoice. This must be the same company as the applicant, not a
  third party independent of the applicant.
- Provide contact information for the Architect or Consulting Engineer who designed the Erosion and Sediment Control Plan (ESCP) and Dewatering Plan, if applicable.
- Provide information on the Erosion and Sediment Control Visual Monitoring Inspector. This is not a DEQ or DEQ Agent
  inspector, this is an inspector employed by the applicant. Include the inspectors' qualification program, certification number and
  expiration date
- Provide the common name of the project (for example, the name of the subdivision), the location of the site, and, if available, a street address.
- Check the box that best describes the nature of the construction activity. If "other" is selected, describe the use and include a Standard Industrial Classification Code (visit for codes). For projects that have submitted a joint permit application, please provide the US Army Corps of Engineers assigned number.
- 7. Enter latitude and longitude for the approximate center of the site, to the nearest 15 seconds. Latitude and longitude can be obtained from DEQ's location finder web site at and latitude to appear you can also zoom in and re-center until you find the area. You may want to turn off DEQ interests to eliminate the yellow dots and you may want to turn on the Aerial Photos to help you locate the site (note that the aerial photos are over ten years old). The latitude and longitude will be indicated on the left side of the page once you have checked the locate place at the top of the page and clicked on a location.
- 8. If known, specify approximate start date. Provide information on the project size as indicated (based on the total project and not just a single phase). If the project is less than an acre and part of a common plan of development there is no annual fee.
- 9. If a proposed construction site has a DEQ assigned Environmental Cleanup Site Information (ECSI) number associated with the property, an Environmental Management Plan must be submitted to DEQ. DEQ maintains the ECSI database to track sites in Oregon with known or potential contamination from hazardous substances, and to document sites where DEQ has determined that no further action is required. For projects that anticipate contaminated soils, contaminated groundwater, or hazardous materials will or have the potential to be encountered during construction activities or the need for active treatment system, an Environmental Management Plan is required. This includes a plan review fee (Table 70F) for treatment of contaminants beyond sediment (See Appendix A and at:
- 10. Indicate the name(s) of the receiving water(s) (i.e., indicate where stormwater runoff during construction will flow). Request information from local authority or other resource to determine the name of the receiving waterbody. The receiving water may be a lake, stream, river, wetland or other waterbody, and may or may not be located adjacent to the site. Stormwater from the project site may discharge directly to the receiving water or indirectly via a storm sewer system, an open drain or ditch, or other conveyance structure. Do NOT list a human-made conveyance, such as a storm sewer system, as the receiving water. If the site discharges to an irrigation channel or ditch, the applicant must also indicate the owner or operator of the irrigation channel or ditch.

For example, if the project site discharge enters a storm sewer system, that empties into Trout Creek, which flows into Pine River, the receiving water is Trout Creek, because it is the first natural waterbody the project site discharge will reach. Similarly, a discharge into a ditch that feeds Spring Creek should be identified as "Spring Creek" since the ditch is a human-made conveyance. If your site discharges into a municipal separate storm sewer system (MS4), the applicant must identify the waterbody into which that portion of the storm sewer discharges. That information should be readily available from the operator of the MS4.

- 11. Indicate whether stormwater runoff during construction will discharge directly to or through a storm sewer or drainage system that discharges to a Total Maximum Daily Load (TMDL) or 303(d) listed waterbody for turbidity or sedimentation. To make this determination, the following tools are available on DEQ's website:
  - WQ Assessment page: 14 to search criteria: waterbody and listing status Category 5 (303d) and Category 4a (TMDL approved).

#### B. SIGNATURE OF LEGALLY AUTHORIZED REPRESENTATIVE

#### DEFINITION OF LEGALLY AUTHORIZED REPRESENTATIVE:

Please also provide the information requested in brackets []

- Corporation president, secretary, treasurer, vice-president, or any person who performs principal business functions; or a manager of one or more facilities that is authorized in accordance to corporate procedure to sign such documents.
- Partnership General partner [list of general partners, their addresses, and telephone numbers].
- Sole Proprietorship Owner.
- City, County, State, Federal, or other Public Facility Principal executive officer or ranking elected official.
- Limited Liability Company Member [articles of organization].
- Trusts Acting trustee [list of trustees, their addresses, and telephone numbers].

(please see 40 CFR §122.22 for more detail, if needed)

#### APPLICATION AND FEE SUBMITTAL

To authorize permit registration, the following must be completed and submitted to the appropriate DEQ regional office or

	Q Agent
	Complete and accurate DEQ application form signed by the Legally Authorized Representative. DEQ LUCS and associated Findings.
0	Erosion and Sediment Control Plan Narrative, if applicable.
	Environmental Management Plan, if applicable.
	Dewatering Plan, if applicable.
	Stormwater Erosion and Sediment Control Plan Drawings; full-sized hard copy and electronic file.
0	Applicable permit fee. Appropriate fees are available at . Please make check payable to DEQ. All stormwater permits charge an application fee and an annual fee upon registration. DEQ will invoice the annual fee amount if your project coverage extends more than a year. Please note: if submitting an Environmental Management Plan to address contaminants or operate an Active Treatment System, a review fee will be charged as indicated in Table 70H.

#### APPLICATION AND FEE SUBMITTAL

Submit this application, Narrative Parts I, II & III (if applicable), LUCS, Erosion and Sediment Control Plan (full-sized hard copies and electronic copy), Dewatering and/or Environmental Management Plan and the applicable fee to the appropriate DEQ regional office or DEO Agent listed below. Please send electronic copy (CD or thumbdrive) of ESCP with permit application submission package.

#### AGENTS AND REGIONAL OFFICES CONTACTS

### City of Eugene

99 W. 10th Avenue, Eugene, OR 97401 541-682-2706

#### Clean Water Services

2550 SW Hillsboro Highway, Hillsboro, OR 97123 503-681-5101

Includes Banks, Beaverton, Cornelius, Durham, Forest Grove, Gaston, Hillsboro, King City, North Plains, Sherwood, Tigard, Tualatin, and portions of Washington Co. City of Troutdale

342 SW 4th Street, Troutdale, OR 97060 503-674-3300

> Rogue Valley Sewer Services 138 West Vilas Road,

P.O. Box 3130 Central Point, OR 97502 541-664-6300

DEQ Northwest Region	n DEQ West	ern Region	DEQ Easte	m Region
700 Lloyd Building 700 NE Multnomah St., Suite Portland, OR <b>97232</b> 503-229-5263 or 1-800-452-4	600 Engene, 541-680	venue, Suite 100 OR 97401 5-7930 ar 144-8467	800 SE Emigrant Avenue, Sui Pendleton, OR 97801 541-278-4605 or 1-800-304-3513	
Clackamas	Lane		Hood River	Sherman
Clatsop	Lincoln		Jefferson	Umatilla
Columbia	Linn		Klamath	Union
Multnomah	Marion		Lake	Wallowa
	Josephine	Jackson	Deschutes	Crook
Tillamook	Polk		Malheur	Wasco
Washington	Yambill		Marrow	Wheeler
	Benton	Douglas	Grant	Gilliam
	Coos	Curry	Buker	Harney

## DEQ USE ONLY File It. Application # LLID/RM: River Mile: Legal Name Confirmed: Notes:

State of Oregon Department of Environmental Quality

#### APPLICATION FOR NEW NPDES **GENERAL PERMIT 1200-C**

For stommwater discharges to surface waters from construction activities disturbing one acre or more that do not meet automatic coverage requirements.\*

	DEQ USE ONLY
Date Receiv	ed:
Amount \$	
Check #:	
Carous, recour	×
Deposit # _	
Receipt #	
Notes.	

1. Disturbs less than one acre and is located in Gresham, Troutdale, or Wood Village.

2. Disturbs less than five acres and is located in Albany, Corvallis, Eugene, Milwankie, Multnomah Co. (unincorporated areas),

Springfield, West Linn, or Wilsonville.

3. Disturbs less than five acres and is within the jurisdictions of Clackamas Co. Water Environment Services [Gladstone, areas within Clackamas Co. Service Dist. #1 (excluding Happy Valley), and areas within the Surface Water Management Agency of Clackamas Co. (including Rivergrove)], Clean Water Services (Banks, Beaverton, Cornelius, Durham, Forest Grove, Hillsboro, King City, North Plains, Sherwood, Tigard, Tualatin, and Washington Co. within Urban Growth Boundary), or Rogue Valley Sewer Services.

A. PROJECT INFORMATION							
Applicant (Responsible Person or entity legally responsible for permit)     Warrenton Property Investments, LLC			Invoicing information (person or entity legally responsible for payment of annual fee invoice; not a third party independent of the applicant)  Warrenton Property Investments, LLC				
	Contact	t Name		Invoice Co	ntact Name (if d	ifferent from applicant)	
Kyle Langeliers				Kyle Langeliers			
Address 5111 North Coast Highway			5111 North Coasi	Addre Highway	SSS		
City	Sta	ate	ZIP Code	City	State	ZIP Code	
Newport	Oregon		97365	Newport Oregon		97365	
Telephone		E	mail Address	Telephone		Email Address	
503-812-8267		Kyle@n	bysfumiture.com	503-812-8267		Kyle@robysfurniture.com	
Architect/Engineering Firm (Erosion and Sediment Control Plan)  Stricker Engineering			4. Applicant's Designated Enssion and Sediment Control Inspector Justin Pounds				
Other Engineer		t Manager		Company Name			
David Leibbrandt	-			Bridgewater Group			
Telephone		E	mail Address	Telephone		Email Address	
leibbrandtdw@yahoo.com		dtdw@yahoo.com	503-410-4763		ipounds@bridgeh2o.com		
			Qualification program, certification number and expiration date CESCL#CWT21-1011, Expiration: 1/21/2024				

<sup>\*</sup>A project may be eligible for "automatic coverage" under NPDES general permit 1200-CN if stormwater does not discharge to a waterbody with a TMDL or 303(d) listing for sediment or turbidity and it meets one of the following criteria (see 1200-CN at

			6. Nata	e of Construction Activity		
i. Name of Project			0	Single Family (SIC Code 15	521)	
Roby's Furniture	9		1 0	Multi-Family Residential (	IC Code 1522)	
	Address or Cross Street	1 CE Morlio Dr	2	Commercial (SIC Code 15	(2)	
NW Comer of Fort	Stephens Hwy and	ZIP Code	1 0	Industrial (SIC Code 1541)		
City	State	97146		Highway (SIC Code 1611)		
Warrenton	Oregon	9/ 140	1 0	- 0000-1-163		
Clatsop Cou	County nity		-1	Utilities (SIC Code 1623):		
				Army Corps No. (if any):	I	24
7 Approximate local	tion of center of site.		1	moximate start date:	August 1, 20	21
Latitude: 46.153	934		If k	al Site Acreage (acres): 1.38 ess than 1-acre, is site part of minion plan of development? Yes El No al Disturbed Area (acres): 1.		
				al Number of Lots: 1		
**For assistance:					□ Yes	☑ No
9. Is there soil or g	groundwater contami	nation located when	IN UNC SE	ec soundary	II Yes	12 No
Will you be dewatering during construction (plan review fee may apply)?					□ Yes	Z No
	Number been assigned				□ Yes	Z No
Will construct	ion activities impact th	e contaminated media	2		I II IES	1 22 No
Depth to (	Groundwater: 3-5 ft l	ogs	1_		ODOT Pha	se II Report
10. Receiving water	oody - Must identify fi	nal discharge location	of const	nuction stormwater flows.		
Waters of the St	at: (name or descriptio	m):				
Municipal storm	sewer or drainage sys	tem (include downstre	cam rece	iving waterbody):		
Ditch (include d	ownstream receiving v	raterbody): Ditch along	g north s	ide of Fort Stevens Highway,	receiving waterbo	dy:Holbrook Slou
Irrigation channe	el or ditch (include ow	ner or operator):				
Infiltration device	ce(s) (construction stor	newater discharge to u	ndergro	und injection control/drywell	is prohibited):	
Other:						
waterbody with	a Total Maximum Dai	ly Load (IMEAL) or 3	un(e) m	ugh a storm sewer or draining ting for turbidity or sediment		
**For assistance	or DFO assessment da	tabase page at	OF REAL	svara je jesti svije vičeta se sa i	ART VELETINISAN	
	B. SIGNA	TURE OF LEGALLY	Y AUTH	ORIZEO REPRESENTAT	VE C	
The legally authorize	zed representative mus	t sign the application (	(see insti	nuctions - Section C).		
I hereby certify the		ntained in this applic mit fees required by	ation is Oregon	true and correct to the best Administrative Rules 340-(	of my knowledg MS. This include	e and s a
Kyle Langeliers						
Name of Legally	Authorized Represen	tative (Type or Print)		T	itle	
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Signature of	f Legally Authorized	NCMTSCHAMTC				

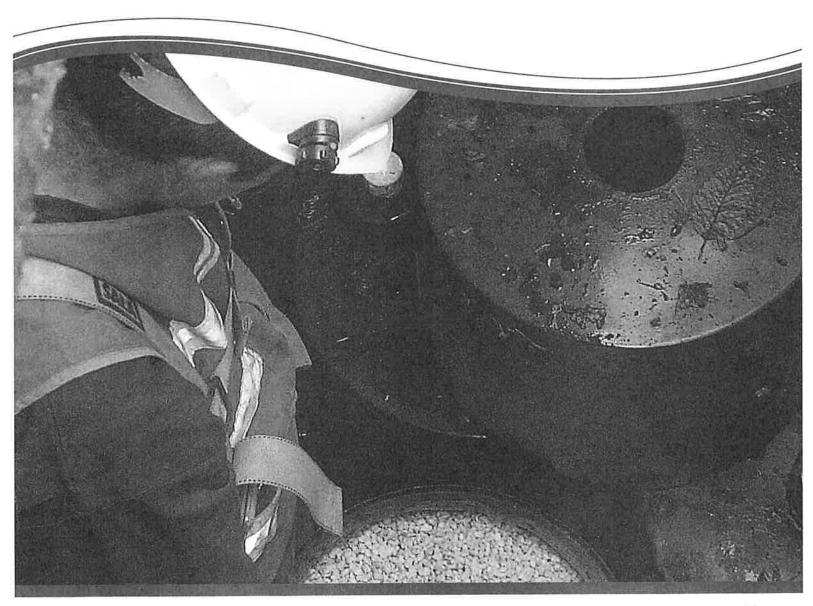
5. Name of Project			6. Nature of Construction Activity		0			
Roby's Furniture			☐ Single Family (SIC Code 1521)					
Address or Cross Street			Muhi-Family Residential (SIC Code 1522)					
NW Corner of Fort Stephens Hwy and SE Martin Dr			☑ Commercial (SIC Code 1542)					
City	State	ZIP Code	☐ Industrial (SIC Code (541)					
Warrenton	Oregon	97146	Highway (SIC Code 1611)					
	County		☐ Restoration (SIC Code 16:					
Clatsop Co	ounty		☐ Utilities (SIC Code 1623):					
· · · · · · · · · · · · · · · · · · ·			☐ Other (SEC Code required)	E				
			☐ Army Corps No. (if any):					
7. Approximate lo	cation of center of sit	The state of the s	S. Approximate start date:	August 1, 2	021			
Latitude: 46.1	53934		Total Site Acreage (acres): 1.38					
			If less than i-acre, is site part of a common plan of development					
Longitude: -1	23 906084		□ Yes □ No	ř				
Congress			Total Disturbed Area (acres):	38				
**For assistance:	T. Junka Visto	1.30	Total Number of Loss: 1					
			thin the site boundary	│ □ Yes	☑ No			
		onstruction (plan review		D Yo	Ø No			
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		ct the contaminated med		☐ Yes	12 No			
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			on of construction stormwater flows.		.40			
	State (name or descri							
Municipal sto	rm sewer or drainage	system (include downs	areasn receiving waterbody):					
Ditch (include	e downstream receivin	ng waterhody it Dites alo	ong north side of Fort Stevens Highway	receiving watert	ody:Holbrook Slou			
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Infiltration de	vice(s) (construction	stormwater discharge to	anderground injection control dry wel	is prohibited):				
Other:								
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## **APPENDIX 5**

**StormFilter Inspection and Maintenance Procedures** 



# StormFilter Inspection and Maintenance Procedures



#### **Maintenance Guidelines**

The primary purpose of the Stormwater Management StormFilter® is to filter and prevent pollutants from entering our waterways. Like any effective filtration system, periodically these pollutants must be removed to restore the StormFilter to its full efficiency and effectiveness.

Maintenance requirements and frequency are dependent on the pollutant load characteristics of each site. Maintenance activities may be required in the event of a chemical spill or due to excessive sediment loading from site erosion or extreme storms. It is a good practice to inspect the system after major storm events.

#### **Maintenance Procedures**

Although there are many effective maintenance options, we believe the following procedure to be efficient, using common equipment and existing maintenance protocols. The following two-step procedure is recommended::

#### 1. Inspection

 Inspection of the vault interior to determine the need for maintenance.

#### 2. Maintenance

- Cartridge replacement
- · Sediment removal

#### **Inspection and Maintenance Timing**

At least one scheduled inspection should take place per year with maintenance following as warranted.

First, an inspection should be done before the winter season. During the inspection the need for maintenance should be determined and, if disposal during maintenance will be required, samples of the accumulated sediments and media should be obtained.

Second, if warranted, a maintenance (replacement of the filter cartridges and removal of accumulated sediments) should be performed during periods of dry weather.



In addition to these two activities, it is important to check the condition of the StormFilter unit after major storms for potential damage caused by high flows and for high sediment accumulation that may be caused by localized erosion in the drainage area. It may be necessary to adjust the inspection/maintenance schedule depending on the actual operating conditions encountered by the system. In general, inspection activities can be conducted at any time, and maintenance should occur, if warranted, during dryer months in late summer to early fall.

#### **Maintenance Frequency**

The primary factor for determining frequency of maintenance for the StormFilter is sediment loading.

A properly functioning system will remove solids from water by trapping particulates in the porous structure of the filter media inside the cartridges. The flow through the system will naturally decrease as more and more particulates are trapped. Eventually the flow through the cartridges will be low enough to require replacement. It may be possible to extend the usable span of the cartridges by removing sediment from upstream trapping devices on a routine as-needed basis, in order to prevent material from being re-suspended and discharged to the StormFilter treatment system.

The average maintenance lifecycle is approximately 1-5 years. Site conditions greatly influence maintenance requirements. StormFilter units located in areas with erosion or active construction may need to be inspected and maintained more often than those with fully stabilized surface conditions.

Regulatory requirements or a chemical spill can shift maintenance timing as well. The maintenance frequency may be adjusted as additional monitoring information becomes available during the inspection program. Areas that develop known problems should be inspected more frequently than areas that demonstrate no problems, particularly after major storms. Ultimately, inspection and maintenance activities should be scheduled based on the historic records and characteristics of an individual StormFilter system or site. It is recommended that the site owner develop a database to properly manage StormFilter inspection and maintenance programs.



#### **Inspection Procedures**

The primary goal of an inspection is to assess the condition of the cartridges relative to the level of visual sediment loading as it relates to decreased treatment capacity. It may be desirable to conduct this inspection during a storm to observe the relative flow through the filter cartridges. If the submerged cartridges are severely plugged, then typically large amounts of sediments will be present and very little flow will be discharged from the drainage pipes. If this is the case, then maintenance is warranted and the cartridges need to be replaced.

**Warning**: In the case of a spill, the worker should abort inspection activities until the proper guidance is obtained. Notify the local hazard control agency and Contech Engineered Solutions immediately.

To conduct an inspection:

**Important:** Inspection should be performed by a person who is familiar with the operation and configuration of the StormFilter treatment unit and the unit's role, relative to detention or retention facilities onsite.

- 1. If applicable, set up safety equipment to protect and notify surrounding vehicle and pedestrian traffic.
- 2. Visually inspect the external condition of the unit and take notes concerning defects/problems.
- 3. Open the access portals to the vault and allow the system vent.
- 4. Without entering the vault, visually inspect the inside of the unit, and note accumulations of liquids and solids.
- 5. Be sure to record the level of sediment build-up on the floor of the vault, in the forebay, and on top of the cartridges. If flow is occurring, note the flow of water per drainage pipe. Record all observations. Digital pictures are valuable for historical documentation.
- 6. Close and fasten the access portals.
- 7. Remove safety equipment.
- 8. If appropriate, make notes about the local drainage area relative to ongoing construction, erosion problems, or high loading of other materials to the system.
- 9. Discuss conditions that suggest maintenance and make decision as to whether or not maintenance is needed.

#### **Maintenance Decision Tree**

The need for maintenance is typically based on results of the inspection. The following Maintenance Decision Tree should be used as a general guide. (Other factors, such as Regulatory Requirements, may need to be considered).

Please note Stormwater Management StormFilter devices installed downstream of, or integrated within, a stormwater storage facility typically have different operational parameters (i.e. draindown time). In these cases, the inspector must understand the relationship between the retention/detention facility and the treatment system by evaluating site specific civil engineering plans, or contacting the engineer of record, and make adjustments to the below guidance as necessary. Sediment deposition depths and patterns within the StormFilter are likely to be quite different compared to systems without upstream storage and therefore shouldn't be used exclusively to evaluate a need for maintenance.

- 1. Sediment loading on the vault floor.
  - a. If >4" of accumulated sediment, maintenance is required.
- 2. Sediment loading on top of the cartridge.
  - a. If >1/4" of accumulation, maintenance is required.
- 3. Submerged cartridges.
  - a. If >4" of static water above cartridge bottom for more than 24 hours after end of rain event, maintenance is required. (Catch basins have standing water in the cartridge bay.)
- 4. Plugged media.
  - a. While not required in all cases, inspection of the media within the cartridge may provide valuable additional information.
  - b. If pore space between media granules is absent, maintenance is required.
- 5. Bypass condition.
  - a. If inspection is conducted during an average rain fall event and StormFilter remains in bypass condition (water over the internal outlet baffle wall or submerged cartridges), maintenance is required.
- 6. Hazardous material release.
  - If hazardous material release (automotive fluids or other) is reported, maintenance is required.
- 7. Pronounced scum line.
  - a. If pronounced scum line (say  $\geq 1/4$ " thick) is present above top cap, maintenance is required.

#### Maintenance

Depending on the configuration of the particular system, maintenance personnel will be required to enter the vault to perform the maintenance.

**Important**: If vault entry is required, OSHA rules for confined space entry must be followed.

Filter cartridge replacement should occur during dry weather. It may be necessary to plug the filter inlet pipe if base flows is occurring.

Replacement cartridges can be delivered to the site or customers facility. Information concerning how to obtain the replacement cartridges is available from Contech Engineered Solutions.

**Warning**: In the case of a spill, the maintenance personnel should abort maintenance activities until the proper guidance is obtained. Notify the local hazard control agency and Contech Engineered Solutions immediately.

To conduct cartridge replacement and sediment removal maintenance:

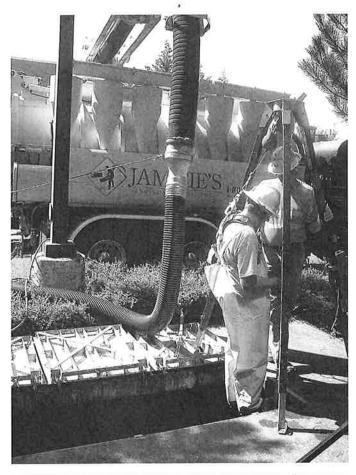
- 1. If applicable, set up safety equipment to protect maintenance personnel and pedestrians from site hazards.
- 2. Visually inspect the external condition of the unit and take notes concerning defects/problems.
- 3. Open the doors (access portals) to the vault and allow the system to vent.
- 4. Without entering the vault, give the inside of the unit, including components, a general condition inspection.
- Make notes about the external and internal condition of the vault. Give particular attention to recording the level of sediment build-up on the floor of the vault, in the forebay, and on top of the internal components.
- 6. Using appropriate equipment offload the replacement cartridges (up to 150 lbs. each) and set aside.
- 7. Remove used cartridges from the vault using one of the following methods:

#### Method 1:

A. This activity will require that maintenance personnel enter the vault to remove the cartridges from the under drain manifold and place them under the vault opening for lifting (removal). Disconnect each filter cartridge from the underdrain connector by rotating counterclockwise 1/4 of a turn. Roll the loose cartridge, on edge, to a convenient spot beneath the vault access.

Using appropriate hoisting equipment, attach a cable from the boom, crane, or tripod to the loose cartridge. Contact Contech Engineered Solutions for suggested attachment devices.

B. Remove the used cartridges (up to 250 lbs. each) from the vault.



**Important:** Care must be used to avoid damaging the cartridges during removal and installation. The cost of repairing components damaged during maintenance will be the responsibility of the owner.

- C. Set the used cartridge aside or load onto the hauling
- D. Continue steps a through c until all cartridges have been removed.

#### Method 2:

- A. This activity will require that maintenance personnel enter the vault to remove the cartridges from the under drain manifold and place them under the vault opening for lifting (removal). Disconnect each filter cartridge from the underdrain connector by rotating counterclockwise 1/4 of a turn. Roll the loose cartridge, on edge, to a convenient spot beneath the vault access.
- B. Unscrew the cartridge cap.
- Remove the cartridge hood and float.
- D. At location under structure access, tip the cartridge on its side.
- E. Empty the cartridge onto the vault floor. Reassemble the empty cartridge.
- F. Set the empty, used cartridge aside or load onto the hauling truck.
- G. Continue steps a through e until all cartridges have been removed.199

- 8. Remove accumulated sediment from the floor of the vault and from the forebay. This can most effectively be accomplished by use of a vacuum truck.
- 9. Once the sediments are removed, assess the condition of the vault and the condition of the connectors.
- 10. Using the vacuum truck boom, crane, or tripod, lower and install the new cartridges. Once again, take care not to damage connections.
- 11. Close and fasten the door.
- 12. Remove safety equipment.
- 13. Finally, dispose of the accumulated materials in accordance with applicable regulations. Make arrangements to return the used **empty** cartridges to Contech Engineered Solutions.

## Related Maintenance Activities - Performed on an as-needed basis

StormFilter units are often just one of many structures in a more comprehensive stormwater drainage and treatment system.

In order for maintenance of the StormFilter to be successful, it is imperative that all other components be properly maintained. The maintenance/repair of upstream facilities should be carried out prior to StormFilter maintenance activities.

In addition to considering upstream facilities, it is also important to correct any problems identified in the drainage area. Drainage area concerns may include: erosion problems, heavy oil loading, and discharges of inappropriate materials.

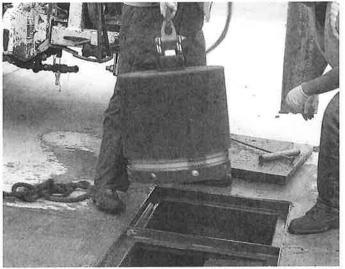


#### **Material Disposal**

The accumulated sediment found in stormwater treatment and conveyance systems must be handled and disposed of in accordance with regulatory protocols. It is possible for sediments to contain measurable concentrations of heavy metals and organic chemicals (such as pesticides and petroleum products). Areas with the greatest potential for high pollutant loading include industrial areas and heavily traveled roads.

Sediments and water must be disposed of in accordance with all applicable waste disposal regulations. When scheduling maintenance, consideration must be made for the disposal of solid and liquid wastes. This typically requires coordination with a local landfill for solid waste disposal. For liquid waste disposal a number of options are available including a municipal vacuum truck decant facility, local waste water treatment plant or on-site treatment and discharge.





### **Inspection Report** \_\_\_\_\_Personnel: \_\_\_\_\_ \_\_\_\_\_System Size: Location:\_\_\_ \_\_\_\_\_ Months in Service: — Cast-In-Place Linear Catch Basin Other: \_\_\_\_\_ System Type: Vault Manhole Sediment Thickness in Forebay: Date: Sediment Depth on Vault Floor: Sediment Depth on Cartridge Top(s): Structural Damage: \_\_\_ Estimated Flow from Drainage Pipes (if available):\_\_\_\_\_ No Depth of Standing Water:\_\_\_\_\_ Cartridges Submerged: Yes StormFilter Maintenance Activities (check off if done and give description) Trash and Debris Removal: Minor Structural Repairs: Drainage Area Report Excessive Oil Loading: Yes No Source: -Sediment Accumulation on Pavement: Yes No Yes Erosion of Landscaped Areas: No Items Needing Further Work: Owners should contact the local public works department and inquire about how the department disposes of their street waste residuals. Other Comments:

Review the condition reports from the previous inspection visits.

#### **StormFilter Maintenance Report** \_\_\_\_\_Personnel: \_\_\_\_ \_\_\_\_\_System Size: \_\_\_\_\_ Location:\_\_\_\_ Cast-In-Place Linear Catch Basin Manhole Other:\_\_\_\_\_ System Type: Vault List Safety Procedures and Equipment Used: \_\_\_\_\_ **System Observations** Months in Service: Oil in Forebay (if present): Yes No 🗍 Sediment Depth in Forebay (if present): \_\_\_\_\_ Sediment Depth on Vault Floor: Sediment Depth on Cartridge Top(s): ---Structural Damage: \_\_\_\_\_\_ **Drainage Area Report** Excessive Oil Loading: Yes No Source: \_\_\_ Sediment Accumulation on Pavement: Yes No Erosion of Landscaped Areas: Yes No Source: \_\_\_\_ **StormFilter Cartridge Replacement Maintenance Activities** Yes 🔲 No Details: \_\_\_ Remove Trash and Debris: Details: \_\_ Replace Cartridges: Yes Yes Sediment Removed: No Details: \_ Quantity of Sediment Removed (estimate?): Minor Structural Repairs: Yes No 🗍 Details: \_ Residuals (debris, sediment) Disposal Methods: Notes:



## CINTECH ENGINEERED SOLUTIONS

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- Site-specific design support is available from our engineers.

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### APPENDIX B

Utilities (Water, Sewer, Electrical, Communications, Natural Gas and Fire), Proposed Roby's Furniture & Appliance Store, Technical Memorandum (Stricker Engineering, May 2021)



Stricker Engineering LLC

PO Box 366 Garibaldi, Oregon 97118 john@strickerengineering.com 503-322-2442

#### TECHNICAL MEMORANDUM

May 20, 2021

## PROPOSED ROBY'S FURNITURE & APPLIANCE STORE, Warrenton, **Oregon (East Portion of Trondheim Acres Lot 1)**

## **UTILITIES (Water & Fire, Sewer, Electrical, Communications & Natural Gas**)

By: David Leibbrandt, P.E., Stricker Engineering

#### 1.0 Introduction and Background

The proposed Roby's Warrenton Furniture Store site in the Trondheim Acres Industrial Subdivision (east portion of Lot 1), located on the north side of Alternative Highway (Hwy) 101, just westerly of Marlin Avenue is provided water and sewer service by the City of Warrenton. Electrical power service is provide by Pacific Power & Light (PP&L/Pacific Power) and natural gas service is provided by NW Natural. CenturyLink and Charter/Spectrum Communications are available to provide telephone, cable and data services to the proposed new building.

This technical memorandum presents key utility service information relative to the proposed development. SEE "SITE PLAN" AND "SITE UTILITIES (WATER, SEWER & CONDUITS)" IN APPENDIX 1, THIS TM.

#### 2.0 Water Service

- 2.1 General--This existing public water system is described in the City of Warrenton, Oregon, Water Master Plan (WMP), July, 2018 (MurraySmith), and provides for all public uses, including, drinking water, fire suppression and landscape irrigation.
- 2.2 Water Source--The City delivers drinking water by way of pipelines, pumping stations and storage facilities that convey treated Young's River source water from facilities situated up-river easterly of Gearhart.
- 2.3 Pressure Zones--The subject Roby's site lies within the City's "Town Zone" pressure zone, which operates at a maximum hydraulic grade line (HGL) elevation of 225 feet. This elevation is the overflow elevation of the City's 3.5 million gallon

pressure zone. With the proposed Roby's store finished floor elevation being 13.5 feet, resultant static pressure during non-demand periods will be 91.5 pounds per square inch (psi). This pressure is calculated by taking the difference between the static HGL and the subject "ground elevation" (225-feet minus 13.5 feet = 211.5 feet) and dividing the result by 2.31 (one psi is equivalent to 2.31 feet or head of water). Actual pressures will vary below this level depending on system demand.

- 2.4 Water Master Plan--Based on a review of the City's active/current Water Master Plan, the subject site is appropriately and adequately served. A robust piping system surrounds the site, with relatively large 18-inch diameter piping being in place on Marlin Avenue, just 150-feet east and in Alternative Hwy 101 fronting the south side of the property. The result is ample fire flow capacity in the local water distribution system. The WMP reports no deficiencies relative to this project's water service needs. The City' South Reservoir is reported as having more than adequate capacity through the 20 year planning period. The fire suppression storage component, for Commercial Zone areas, provides for 3,500 gallons per minute (gpm) for a duration of 4-hours.
- 2.5 Hydraulic Modeling/Water System Pressures--The City's WMP, hydraulic modeling tested system performance under normal average day demand, maximum day demand plus fire flow, and peak hour demand conditions, with no service deficiencies being reported at this location. This site, being zoned commercial, was tested under a 3,500 gpm fire flow demand. Resultant residual pressures reported that the large distribution piping system surrounding the Roby's site location, under various flow conditions, are as follows:

Residual Pressure, Average Day Demand (ADD): 90-100 psi

Residual Pressure, MDD plus Fire Flow (MDD): 80-90 psi

Residual Pressure, Peak Hour Demand (PHD): 90-100 psi

("psi" = pound per square inch)

Per industry standards, residual pressure evaluation criterion were as follows:

Minimum During MDD + Fire Flow: 20 psi

Minimum During PHD: 40psi

Normal Maximum: 80-100psi

The above flows are provided by the normal water distribution system. As a further emergency back-up to this system, the City continues to maintains the 0.25 million gallon Harbor Street Reservoir and Harbor Street Booster Pumping Station (two-1,400 gpm pumps). These facilities are located just northerly of the subject project site.

2.6 Previous Improvements--A 6-inch diameter water main was extended westerly from Marlin Avenue piping to the recently constructed Tractor Supply store, as part of previous Trondheim Acres Lot 1 development improvements. This C-900 PVC pipeline is located on the north side of the E-W Private Drive built along the north

side of the subject Roby's store site. As part of this construction, a new fire hydrant was installed at the northeast corner of the property and another new hydrant was installed near the northwest corner of the site, just across the north-west oriented Private Drive on the west side of the property.

- 2.7 Fire Hydrant Flow Testing--As required by the City Fire Marshall, fire hydrant testing (by private contractor) was completed in support of this project's Site Plan Review process. SEE APPENDIX 2, THIS TM FOR RESULTS.
- 2.8 Proposed Water Service Connection--This project proposes to extend the existing hydrant located at the northwest corner of the property so as to optimize truck entrance conditions. With such an extension, it is proposed that the site's fire and domestic service connection be made via a 6-inch diameter valved tee off this proposed extension, with piping being routed in the planter strip westerly to a location near the northeast corner of the new building. By connecting to the original 6-inch fire hydrant stub-out, a new street cut can be avoided, as would otherwise be required to access the 8-inch diameter water main in the middle of the new paved street for the building fire main and domestic supply. This new water main, in a designated public utility easement, will provide the fire sprinkler system for the building and domestic supply for the minimal requirements for the new building. The new City water meter will be located near the end of the 6-inch water main, so as to prevent "dead water" from occurring in the static fire main section. Since this is a commercial use and a backflow device will be installed after the water meter, a Double Detector Check Valve (DDCV) is proposed for the new building.

Fire Department Connection (FDC) will be provided for the proposed building, which will consist of a Fire Department Connection (FDC Standpipe) with locking caps. There will also be a FDC Post Indicator Valve installed between the FDC and the building. This FDC, from near the existing fire hydrant to the building, will consist of approximately 90-feet of 4" fire main. This proposed FDC line will be 'dry' and will have a ball check valve in a small concrete vault for drainage.

Please note that the Post Indicator Valve will be alarmed into the new fire panel in the proposed building.

SEE "SITE UTILITIES (WATER, SEWER & CONDUITS)" IN APPENDIX 1, THIS TM.

#### 3.0 Sanitary Sewer Service

- 3.1 Wastewater Facilities Plan— The existing public sewer system is described in the City of Warrenton, Oregon, Wastewater Facilities Plan, Final Report, November, 2002 (HLB & Associates, Inc./H. B. Esvelt Engineering).
- 3.2 Existing Facilities--Existing gravity sewer, pumping station and pressure (force) main facilities collect and convey raw sewage from the City's developed areas to the City's wastewater treatment facilities. Treated wastewater outfalls downstream into Young's Bay. Wastewater from Trondheim Acres passes through five pumping

stations enroute to the City's wastewater treatment facility. As part of the Trondheim Acres Lot 1 (Tractor Supply) development, a 10-inch diameter gravity sewer was extended westerly along the development's east-west Private Drive (north side of proposed Roby's site), from existing gravity sewer piping in Marlin Avenue. The existing Marlin Avenue gravity sewer drains north to the City's SE Marlin/101 Pump Station. From there, flow is routed under Hwy 101 and north to the City's 2<sup>nd</sup> Marlin Pump Station and then westerly and north again through three additional pumping stations to the City's wastewater treatment facility.

- 3.3 Proposed Service Connection--Previous Trondheim Acres development improvements constructed a 6"sewer service lateral into the subject property per City of Warrenton standards. Existing Trondheim Acres sanitary sewer piping is D3034/SDR 35 PVC. This project proposes to connect at this pre-established connection point on the north side of the property where close proximity to interior facilities will minimize lateral sewer lengths. Construction will be completed with required cleanouts, all in accordance with current City of Warrenton design and construction standards.
- 3.4 Proposed Sewage Contribution and Characteristics-- The proposed Roby's Furniture Store building has three restroom facilities and a mop room on the main floor and an employee break room on the second floor mezzanine. These facilities combined, are expected to generate about the same or less flow, of traditional/normal domestic wastewater character, than one single family home.

SEE "SITE PLAN" AND "SITE UTILITIES (WATER, SEWER & CONDUITS)" IN APPENDIX 1, THIS TM.

#### 4.0 Electrical Power Service

- 4.1 General--Electrical power service will be provided by local provider, Pacific Power (PP&L). PP&L currently operates in the vicinity of the project with overhead electrical power lines extending along Marlin Avenue to the east of the site, and Alternative Highway 101, on the south side of the site. Electrical power service lines into the Trondheim Acres commercial subdivision are planned as underground facilities and underground power supply currently connects the recently constructed Tractor Supply store. This project furthermore proposes to be served via underground electrical facilities.
- 4.2 Proposed Service Connection—Preliminary consultations with Pacific Power have established that service connections to their system will be made at the southwest corner of the site where an existing high voltage sectionalizing cabinet/vault is located.
- 4.2 On-site Facilities— An on-site ground-level pad mounted transformer will be located in a planter area near the southwest corner of the building. Underground conduits will be constructed between the existing junction box at the southwest corner of the site and the new transformer. Conduits will then further extend between the new transformer and the service entrance equipment mounted outside

the southwest corner of the building. The project's contractor will construct all underground conduits in accordance with requirements established by Pacific Power (size, number, general location and materials) and will set entrance equipment at the building. Pacific Power will install the transformer and pull conductors to the new electrical power meter mounted on the exterior of the building. The building's electrical circuit breaker panel/load center will be located just inside the building in a designated electrical/mechanical room.

- 4.3 Conduit Layouts— General routing of proposed underground electrical power supply conduits is shown on the plans.
- 4.4 Detailed Electrical Supply System Design and Construction—All electrical supply facility details will be established by the project's Design/Build (D/B) electrical contractor in coordination with Pacific Power, following all applicable Pacific Power and City standards and in accordance with all applicable electrical codes.

SEE "SITE PLAN" AND "SITE UTILITIES (WATER, SEWER & CONDUITS)" IN APPENDIX 1, THIS TM.

#### 5.0 Gas Service

Natural gas service will be provided by local provider, NW Natural. NW Natural currently operates in the vicinity of the project with existing distribution pipelines being located in the Alternative Highway 101 right-of-way to the south of the property. A gas service connection is desired to serve the new building and Roby's Furniture is, at the time of this writing, consulting with NW Natural on service connection details. It is anticipated that service pipeline extension construction will be coordinated with other on-site underground utility work.

SEE "SITE PLAN" IN APPENDIX 1, THIS TM.

#### 6.0 Telephone & Cable Television Communications Service

Telephone and cable television services will be provided by local providers Century Link and Charter/Spectrum. Both companies also offer high-speed internet service. These providers operate with franchise agreements with both the City of Warrenton and Pacific Power that enables their low voltage communications cables to be strung overhead on Pacific Power's utility poles. Similar to the above described provisions for electrical service, communications connections will be made at the southwest corner of the site and on-site service cables will extend underground through conduits installed parallel to the above describe electrical conduits. Conduit requirements will be coordinated with the communications service providers and will be constructed by the project's general contractor as electrical conduits are being installed.

Note: There are currently two (2) existing pedestals for CenturyLink and Charter/Spectrum.

SEE "SITE PLAN" AND "SITE UTILITIES (WATER, SEWER & CONDUITS)" IN APPENDIX 1, THIS TM.

#### 7.0 Summary

Previous commercial development site improvements provided water (including fire protection), sewer and stormwater utilities for this site's access. Plans show proposed connection locations. No off-site improvements are anticipated other than short service connections to existing facilities. Plans reflect electric power service connection requirements per PP&L service consultations. Underground electrical and communications system conduits will be provided with site construction work. The project owner is coordinating natural gas service requirements with Northwest Natural.

**END TECHNICAL MEMORANDUM** 

#### **APPENDICES:**

- 1. Reduced Size Plans (Also, see Narrative Report Appendix I for larger 11" X 17" plans and separately attached Full Size Plans)
  - a. Site Plan
  - b. Site Utilities (Water, Sewer & Conduits)
- 2. Fire Hydrant Flow Test Report

## **APPENDIX 1**

Reduced Size Plans (Also, see Narrative Report Appendix I for larger 11" X 17" plans and separately attached Full Size Plans)

a. Site Plan

#### CIVIL DRAWING INDEX

ICS I SITE EXCAVATION PLAN

SE SEXMANTION PLAN

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CHO BETHELE COMMENTO AND PROCKED

CHO BETHELE COMMENT AND PROCKED

METAL ROOF 4 SITE ZONING: COMMERCIAL, C-1

RÉFERENCE DATUM: STATION INDEX ID: PID SC0559' DATUM NAVD 88 ELEVATION 8 36 FT

NORTH SIDE OF HIGHWAY 101 ALTERNATE.

LATITUDE 46 153934, LONGITUDE -123 906084

LOCATION: BETWEEN HIGHWAY 101 & MARLIN AVE ON NORTH SIDE OF ALT, HIGHWAY 101, T.C. #81027 AB06900, T8N, R10W, SECTION 27

#### STRUCTURAL DRAWING INDEX

519 STE FLAN
529 STE REMARKE PRELOCING FAN
539 SOURGATION FLAN
539 FOOD FLAN
539 FLOOR FL

SUBMITTED SEPARATELY

PROPOSED DEVELOPMENT: COMMERCIAL/RETIAL STORE, HOME FURNITURE & APPLIANCES GENERAL LOCATION: WARRENTON, OREGON BETWEEN HIGHWAY 101 AND MARLINE AVE ON

PROPOSED BUILDING: 27,500 SQ. FT FABRICATED STEEL STRUCTURE WITH WOOD SIDING &

## **ROBY'S FURNITURE**

WARRENTON, OREGON



STRICKER Engineering

#### UTILITY PROVIDERS: PROJECT TEAM:

WATER & SANITARY SEWER
DITY OF WARRENTON
ATTN COLLIN STELZIG
PUBLIC WORKS DIRECTOR
45 SW XND STREET
WARRENTON OREGON 97146
503-861-0917

PLECTRICITY
PACIFIC POWER
ATTN MARILYN BROCKEY
2340 SE DOLPHN
WARRENTO OREGON 97146
503-861-6005

CABLE TELEVISION
CHARTER SPECTRUM COMMUNICATIONS
ATTO YOUR BALES
ATTO ANY AVERAGE
ATTO ANY

GAS NW NATURAL GAS ATTN, RICH GIRARD 503-226-4211 EXT 2980 503-281-6169 (CELL)

JENTURY LINK ATTN MIKE MEISNER 18 I INDUSTRY ASTORIA OREGON 97103 03-242/7676

CHARRY TON PROPERTY INVESTMENTS, LLC S1110 COLUT HODANNY MEMPORT, OR WAS CONTACT FYEE LANGUERS REGIONAL MANAGER PHONE (503) 812-9267

CONTROL DESIGNATION OF THE PROPERTY OF THE PRO

CEDITIONAL ENCHESS.
TERMS ASSOCIATES INC.
TERMS ASSOCIATES INC.
TERMS ASSOCIATES INC.
TERMS ASSOCIATES INC.
THICODOSE SOCIETION, P.E., PRINCIPAL
PHONE (25) 2014034

ENDROAMENTAL CONSULTANT BRODENATES GROUP COMMERCE PACK SUTTE 253, 7100 HAMPTON ST TICARD, OR ST223 COMMERCE ST55-5523 PROCE (2015-55-552)

CONSTRUCTION CONTRACTOR OUTS WORK. 35084 HOMMAY 101 BUSINESS ASTORIA OR STIDS CONTACT FINE GAPTINEY PHONE (503) 538-5878









SITE LOCATION MAP (NTS)





SITE VICINITY MAP (NTS)

ROBY'S FURNITURE COVER SHEET

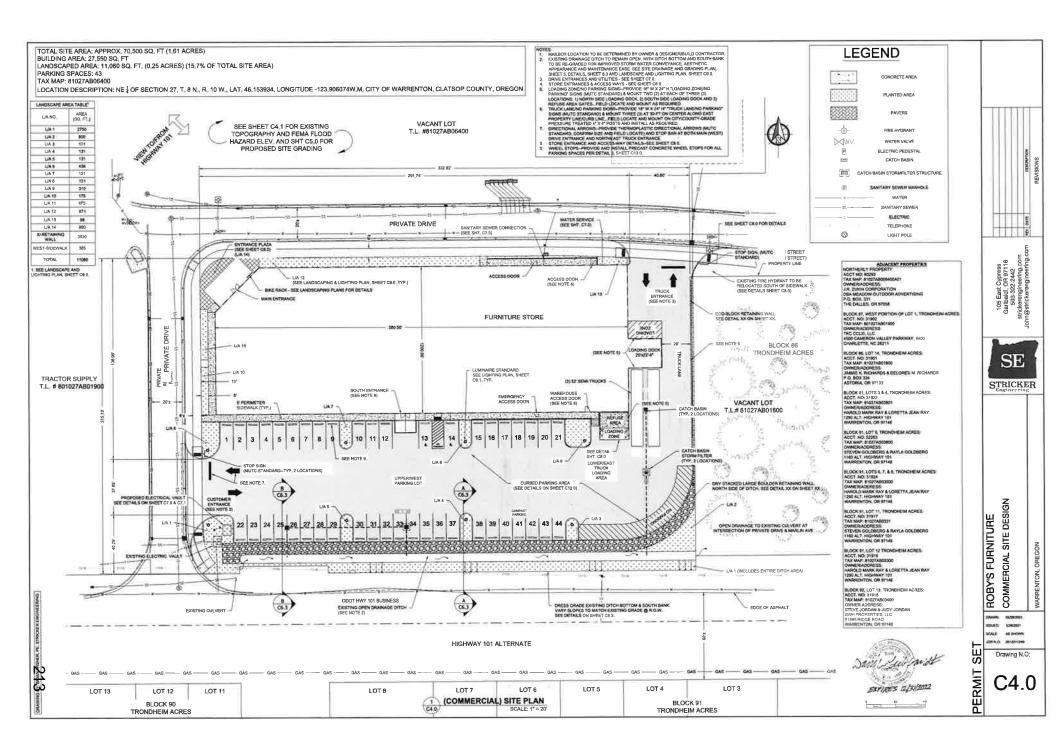
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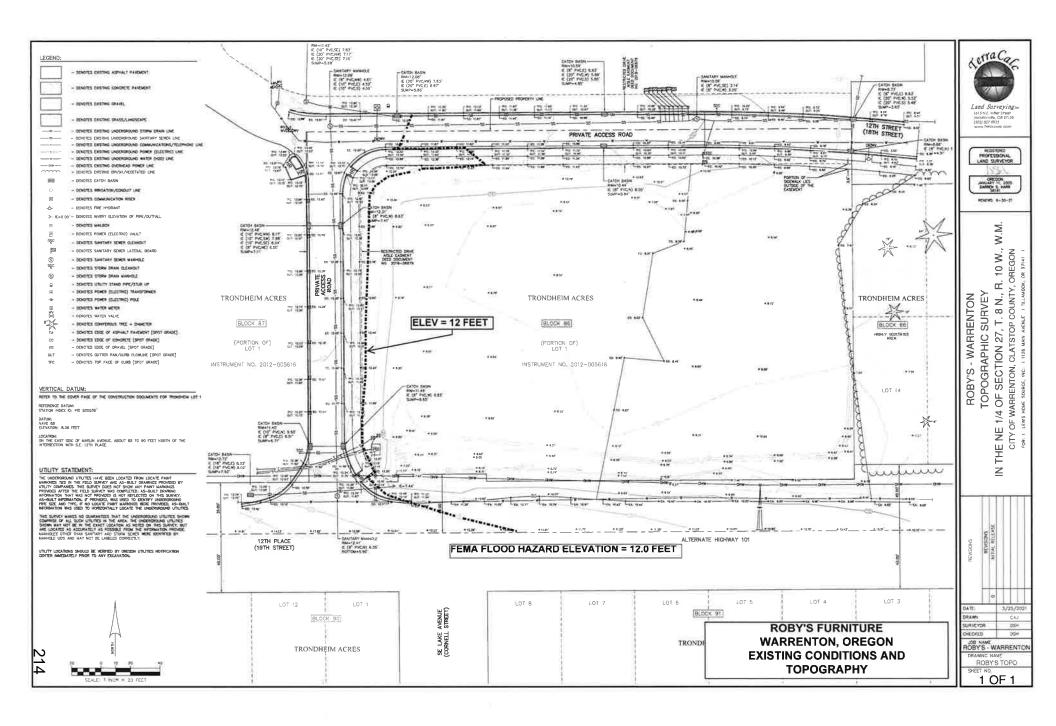
STRICKER

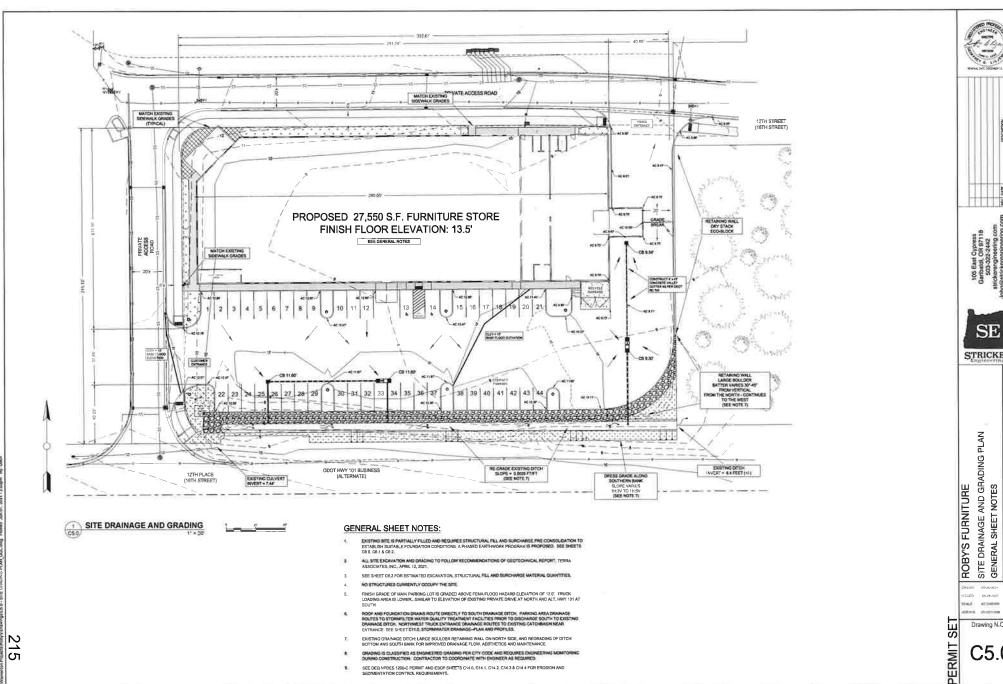
SCALE AS SHOWN

Drawing N.O:

C<sub>1.0</sub>





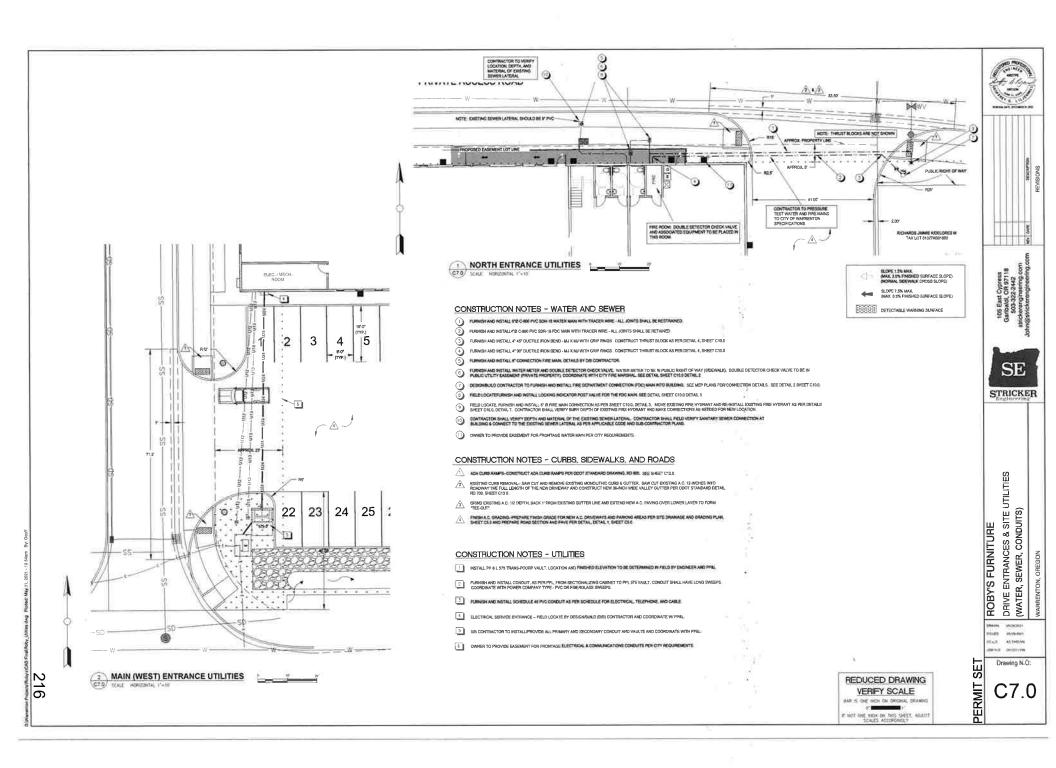




STRICKER

Drawing N.O:

C5.0



## **APPENDIX 2**

Fire Hydrant Flow Tests

## **PLACEHOLDER SHEET**

## <<REPLACE WITH FIRE HYDRANT TEST REPORT>>



## **FORWARD FLOW TEST**

Date: 05/10/2021	Test Number:	
Time: 11:00am	Location:	Marlin & Fort Steven's Hw
Weather:		Warrenton, OR., 97146
At	ttending Personnel:	
1, Marc Bottorff-Delta Fire	3. Warrent	on Fire Chief
2. Brian Crouter-City of Warrentor	4. Warrent	on Fire Div. Chief

(LOCATION SKETCH ON BACK)

	HYDRA	NT #1	HYDRAI	NT #2
NOZZLE SIZE	2-1/2"	4"	2-1/2"	4"
STATIC PRESSURE AND GAUGE NUMBER	86			
RESIDUAL PRESSURE AND GAUGE NUMBER	76			
PITOT PRESSURE AND GAUGE NUMBER			42	
FLOW G.P.M			1087	
COMPUTED FLOW AT 20 P.S.I. RESIDUAL			3013	
WATER COLOR DESCRIPTION			Clear	

REM	ARKS:

## APPENDIX C

Excavation & Grading Plan, Proposed Roby's Furniture & Appliance Store, Technical Memorandum (Stricker Engineering, May 2021)

Stricker Engineering LLC

PO Box 366

Garibaldi, Oregon 97118 john@strickerengineering.com

503-322-2442

STRICKER LEIBBRAND LEIBBRAND 12/31/2022

OREGON

### **TECHNICAL MEMORANDUM**

May 20, 2021

# ROBY'S FURNITURE & APPLIANCE STORE, Warrenton, Oregon (East Portion of Trondheim Acres Lot 1)

#### **EXCAVATION AND GRADING PLAN**

By: David Leibbrandt, P.E., Stricker Engineering

### 1.0 Introduction and Background

1.1 Identification and Description of Work--This excavation and grading plan is prepared in support of City of Warrenton approval for site excavation, grading and surcharge preloading in preparation for construction of a proposed new Roby's Furniture Store on the east portion of Lot 1, Trondheim Acres. Trondheim Acres, owned by Warrenton Fiber, is a 16.54 acre commercial property development located generally between US Highway 101 and Marlin Avenue, just north of Alternative Highway 101. The west portion of Lot 1 has been previously developed with the recent completion of the new Tractor Supply store.

1.2 Excavation and Grading Permit Requirements—This excavation and grading plan narrative is submitted, along with project excavation and grading drawings (attached), to fulfill the requirements of City of Warrenton Municipal Building Code 16.152.060, Grading Permit Requirements. The project involves commercial development and exceeds the 5,000 cubic yard threshold that demands a grading plan and permit.

### 2.0 Description of Land

2.1 General Site Location--The subject property is located in Warrenton, Oregon, Township 8 North, Range 10 West, Section 27, Willamette Meridian at latitude, 46.153934 degrees north and longitude, 123.906084 degrees west. The City's currently assigned Tax I.D. number for the lot is 81027AB06400. The site is situated on the north side of Alternate Highway 101, between US Highway 101 and Marlin Avenue.

north off of Alternative Hwy 101 about 250 ft, then turns and connects into Marlin Avenue about 500 ft east. These two existing roads referred to herein as Private Drive (north-south) and Private Drive (east-west) define the westerly and northerly sides of the site and Alternative Hwy 101 defines the south side. Existing sidewalks have been constructed on the east side of the (north-south) Private Drive and the south side of the (east-west) Private Drive. An existing north-south property line, approximately 334 ft east of the west-side "back-of-sidewalk", establishes the easterly boundary of the property. At the time of this writing, the legal partitioning of the subject east portion of Lot 1 is in process. It is assumed that the west and north property boundaries of the subject property will be at or very near the current "back-of-sidewalk". The existing 71,500 square feet (1.64-acre) parcel is clear of trees and brush and has been partially filled and leveled with large crushed rock. An existing open drainage ditch is located along the south edge of the property, just outside the north right-of-way boundary of Alternative Hwy 101. A sanitary sewer stub-out has been provided into the site on the north side.

- 2.3 Surrounding Conditions--As noted above, a new Tractor Supply retail store is located on the property parcel just to the west of the subject site. The parcel just north is currently undeveloped, as is the parcel on the east side of the subject property. Older, single family homes on large lots currently occupy the south side of Alternative Hwy 101 at this location.
- 2.4 Existing Topography--On the north side of Alternative Hwy 101, the edge of pavement near the southeast corner of the subject site is at about 10 ft elevation and rises gradually to about 12 ft at the south end of the (north-south) Private Drive. The existing pavement surface in the Private Drive intersection at the northwest corner of the property is at about 12.5 ft elevation. The (east-west) Private drive slopes gently down at the east end to an elevation of about 8.5 ft. The subject site has been previously graded and partially filled with the surface elevation varying between about 7.5 ft to 9.5 ft. A 2 ft to 4 ft (vertically) sloped bank along the west and north sides of the site transition the existing undeveloped ground surface grade to the finished grade of recently constructed new sidewalks. SEE APPENDIX 1 THIS TM, EXISTING CONDITIONS.

#### 2.5 Existing Soil Characteristics

2.5.1 Native Soils--Site specific geotechnical engineering was completed for the subject site by Terra Associates, Inc., the same firm that provided geotechnical engineering for the Trondheim Acres Lot 1, Tractor Supply development project. According to this reporting (Geotechnical Report, Roby's Furniture, Fort Stevens Highway (Hwy 101 Business-SEE NARRATIVE REPORT APPENDIX F) and SE Marlin Drive, Warrenton, Oregon, Terra Associates, Inc., April 12, 2021), subsurface soils consist of between 45 ft and 62 ft of very soft, wet, alluvial soil classified as estuarine silt, fine sandy silt and soft to medium stiff peat, overlaying hard, moist residual elastic silt "interpreted to be the informally named Smuggler Cove formation." Terra further noted:

"The Geologic Map of the Astoria Basin, Clatsop and Northernmost Tillamook Counties, Northwest Oregon, by A.R. Niem (1985) shows geology at the subject site mapped as Quaternary alluvium (Qal) that includes estuarine clay, silt, and fine ssand in low-lying coastal areas in and along the Columbia River, Young's Bay and other major river mouths. The unconsolidated deposits observed in the subsurface explorations are consistent with the description of this geologic map unit."

- 2.5.2 On-site Fill—The above referenced Terra Geotechnical Report noted, "The eastern portion of the site has been filled with and unknown thickness of crushed rock. Much of the crushed rock visible on the ground surface consists of 6 to 18-inch diameter quarry spalls."
- 2.6 Groundwater—As reported in the site's Geotechnical Report (Terra Associates, Inc.), groundwater levels at the subject Roby's site were generally observed at about 2 to 3 feet below ground surface.
- 2.7 Tidal Influence/Flood Level--The mapped <<maximum flood level>> at the proposed site is 12 ft, with it being reported that flood levels could possibly rise to 13 ft in the future. Almost all of the proposed site currently lies below the reported flood level. While much of the existing site has been previously filled, additional structural fill is proposed so that the proposed building finished floor can be built at an elevation of 13.5 ft. Imported structural fill will further more be placed in the proposed paved areas so that most of the planned parking lot area will be above the 12 ft flood level.
- 2.8 US Army Corps of Engineers (Corps) and Oregon Department of State Lands (DSL) Permits--As part of the original regulatory approval process for the development of the Trondheim Acres, Warrenton Fiber obtained Removal/Fill Permits from both the Corps and DSL (SEE NARRATIVE REPORT APPENDIX F:

Department of the Army Permit, (Issuing Office: U.S. Army Corps of Engineers, Portland District), Permit No. NWP-2007-745, Warrenton Fiber Company, September 10, 2009 (expiration date not confirmed)

Oregon Department of State Lands, Wetland Fill Permit, Marlin Avenue/Hwy 101 Commercial Development, Permit No: 38988-FP Renewal, Expiration Date, August 7, 2021, Warrenton Fiber Company

These permits provide for the placement of up to 81,000 cubic yards and the removal of up to 26,000 cubic yards, impacting 14.9 acres of wetlands on the Trondheim Acres site complex.

As part of agreed mitigation, Warrenton Fiber Company completed a 142 acre offsite Compensatory Wetland Mitigation Plan involving multiple sites and established a \$48,000 financial endowment to the North Coast Land Conservancy.

At the time of this writing, it is understood that the various conditions of the above permits are being met and that the proposed development of the east portion of Lot 1 is an intended use of the property under the provisions of these permits.

#### 3. Proposed Use

The proposed development provides for the construction of a new retail furniture and appliance store. The property is zoned Commercial and the proposed use is a specific listed use.

### 4. Project Description

- 4.1 Proposed Site Improvements--The proposed development of the east portion of Lot 1, involves the construction of an 28,000 square foot (approximately) retail furniture and appliance store. The proposed 100' X 280' store is planned to be oriented close to the west and north property boundaries with a customer parking lot on the south side and a main customer entrance on the west side connecting to an existing (north-south) Private Drive. A one-way truck entrance off of an existing east-west Private Drive, is proposed in the northeast corner of the property and a 4-foot high trailer level loading dock is planned on the backside (east end) of the building. SEE SITE PLAN IN APPENDIX 1, THIS TM.
- 4.2 Proposed Finished Grades--The proposed building finished floor, rear loading dock and the surrounding perimeter sidewalk is planned to be constructed at an elevation of 13.5 feet (ft) NAVD 88, 1.5-ft above the mapped 12.0 ft Flood Elevation. The existing sidewalk elevation at the northeast corner of the property sits at about 13.0 ft elevation. The majority of the proposed parking lot is planned for construction above the 12.0 ft flood elevation. It is planned that the rear (easterly) truck entrance extend south around the back of the building from the existing road elevation of about 9.5-ft, fairly flat, with minimal grading for proper drainage, before transition up about 2.5-feet to the level of the main parking lot. This grading scheme provides for a 4-ft high loading dock relative the proposed pavement surface for traditional "dock-high" truck loading operations. SEE SITE DRAINAGE AND GRADING PLAN IN APPENDIX 1 THIS TM.
- 4.3 Proposed Site Grading for Drainage--Site grading is proposed so as to collect and route most of the improved-site's stormwater run-off south to the existing open ditch. Surface drainage from a very small localized area at the northeast truck entrance drive-way apron is proposed to drain directly into an existing curbside catch basin located adjacent to the entrance. Pavement surface grading at the northeast truck entrance is designed to route this localized north into existing facilities planned to receive water quality treatment flows from the subject site. SEE SITE DRAINAGE AND GRADING PLAN IN APPENDIX 1 THIS TM.
- 4.4 Open Ditch Improvements-- The existing southerly ditch is proposed to remain an open ditch with a regraded gradually sloped bottom for continuous flow drainage. It is proposed that the regraded bottom be finished with native soil and that the southerly bank be dressed and reseeded with native species grass. A dry stacked, large boulder bank treatment is proposed for the north bank. SEE SITE DRAINAGE AND GRADING PLAN IN APPENDIX 1 THIS TM.

4.5 Site Preparation for Structural Fill—Project geotechnical engineering (Terra, April 12, 2021) reports: "In general, it will not be necessary to strip the organic layer where structural fill thicknesses above existing grade are a minimum of three feet and two feet in building areas and pavement areas, respectively....Where structural fill thicknesses are less than the recommended minimums, both organic and surface soil and vegetation should be stripped from below building areas and pavement areas...surface stripping depths of about two to four inches should be expected...If excessively soft and yielding subgrade is observed and cannot be stabilized in place by aeration, and compaction, the unstable soils should be excavated to a depth of 18 inches and replaced with clean granular structural fill." The construction contractor will be required to follow these recommendations. All excavated native material not stockpiled for later reuse in project landscaping will be required to be hauled off-site and properly disposed of. SEE SITE EXCAVATION PLAN IN APPENDIX 1 THIS TM.

4.6 Structural Fill--In accordance with the April 12, 2021, Terra Geotechnical Report, approximately 4 to 5 ft of clean granular structural fill material will be imported and placed over the existing surface in the proposed building area, and approximately 2 to 3 feet of imported granular structural fill will be placed in paved areas. This structural fill will then be surcharged with 4 ft of material over the building area and one foot of material over paved areas to pre-consolidate compressible subsurface soils prior to construction. Recommended specifications for imported structural fill are as follows:

100 Percent Passing 6-inch U.S. Sieve Size

75 Percent Passing the No. 4 U.S. Sieve Size

5 Percent Max. Passing the No. 200 Sieve Size

These specifications meet and exceed the *City of Warrenton Municipal Code*, 16.152.110, Fills requirement with a specifications requiring 12-inch maximum depths lifts and 95 percent compaction (ASTM Test Designation D-698, Standard Proctor). SEE SITE SURCHARGE/PRELOADING PLAN IN APPENDIX 1 THIS TM.

4.7 Phased Grading Program--Roby's proposes to construct the project site grading in two phases, as follows:

Phase 1: Phase 1 involves perimeter excavations around the proposed building footprint, beneath the footing zone and the placement of at least 3-feet of compacted granular structural fill to a level of the designed bottom of footings, then the placement of approximately another 5-ft thickness of specified compacted granular structural fill up to the finished floor elevation. This fill will extend beyond the building footprint so as to support another 4-ft of surcharge material, with the top of the surcharge material extending at least 5-ft beyond the building perimeter. It is proposed that surcharging material over the building area be of the same material specification as for structural fill, so that after settlement, excess surcharging material can be removed and re-used as structural fill in Phase 2. Total settlement under the building area of about 10 to 14-inches is expected, with 90 percent of this consolidation occurring over about 3 to 4 months.

Phase 2: In Phase 2, excess surcharge material will be removed from the new building area and graded onto parking and drive areas as structural fill. Excavations for retaining wall foundations along the east property line and at the south side of the site, along the north bank of the existing open ditch will be made and refilled with compacted granular structural fill. Retaining walls will then be constructed as parking lot and driveway area structural fill is placed and compacted to approximate surface finish grades. Approximately one-foot of surcharge material will then be placed over proposed paved surface areas. Total settlement of paved surface areas is expected to be in the range of 4 to 6 inches and expected to take a similar 3 to 4 months to reach 90 percent compaction. While consolidation of Phase 2 fill areas is occurring, staging and construction of the proposed new building will get underway. After the consolidation period, as exterior building work is complete and interior work gets underway, excess surcharge material will be removed from the site, underground utilities will be constructed, final site grading will be completed and other exterior sitework will be constructed.

An uncertain depth and quality of rock fill material has previously been placed on the easterly side of the site. In advance of Phase 2 work, the construction contractor will pothole this filled area in several locations, under the observation and guidance of the geotechnical engineer, so as to facilitate a field assessment of the potential suitability of this material for either in-situ use as structural fill or regarding, compacting and re-use elsewhere on the site as structural fill. Where existing rock fill is judged to be inadequate for structural fill purposes, the contractor will then excavate, remove and replace such material with specified compacted structural fill as required to achieve minimum structural fill depths.

SEE SITE EXCAVATION PLAN, SITE SURCHARGE/PRELOADING PLAN AND EXCAVATION/STRUCTURAL FILL/SURCHARGE X-SECTIONS IN APPENDIX 1 THIS TM.

#### 5.0 Cuts, Fills and Excavations

All fill work, including both, 1) permanent structural fill and 2) temporary surcharge fill placement will follow the guidance and requirements of the project's Geotechnical Report (Terra, April 12, 2021) and the requirements of City of Warrenton Municipal Code 16.152.100 & 110. SEE GEOTECHNICAL REPORT IN NARRATIVE REPORT APPENDIX F.

5.1 Cuts--This project will involve no permanent cuts. Only temporary cuts are required, 1) for building footing support over-excavation and structural fill replacement and 2) for retaining wall base over-excavation and structural fill replacement. Preliminary excavation quantity calculations are based on 1:1 cut slopes for noted footing/foundation support over-excavations, with the expectation that these cuts will be very short term, with the contractor replacing these excavations immediately with compacted structural fill. It is not expected that such excavations will require worker entry as all work will be conducted from above grade using heavy machinery. Furthermore, no open excavations will be left

unattended so as to present a public safety hazard or concern. Never the less, the construction contractor will be required to follow all applicable regulatory requirements and standard practices to ensure continuous worker safety and safety of the public.

5.2 Fills—This project will involve no permanent exposed fill slopes. Because of the close proximity of the proposed new building to existing sidewalks to the north and the west, temporary dry-stacked "Eco-Block" retaining walls are proposed to contain lower level structural fill and surcharge material. These temporary retaining walls will be removed after the required surcharging period and finished site grades will match existing sidewalk grades. At the south and the east, permanent retaining walls will be built as part of Phase 2 work, to raise the finished surface grade and to contain surcharge preloading material. On the south and east side of the building foundation area, compacted granular structural fill and granular surcharge material will be temporarily sloped away from the flat-graded surcharge surface. Preliminary quantity calculations for structural fill and surcharge material assumed temporary side slopes at 1:1 assuming the construction contractor will elect to install temporary security fencing, for public exclusion and protection during the surcharging period. Alternatively, the contractor will be required to provide 2:1 (Horizontal:Vertical) side slopes in accordance with geotechnical engineering recommendations and other applicable OSHA and City Code requirements.

5.3 Utility Trenches—No deep utility trenches are anticipated on the project. All utility work will be confined to on-site and all required utility trenches are expected to be less than about 5-feet deep. Where required for worker safety and regulatory and City Code compliance, side slopes will be laid back at required 2:1 H:V grade or appropriate sheeting and shoring trench protection will be provided. All utility trenching will follow applicable industry standards for worker and public safety, including: OSHA, City of Warrenton Municipal Codes, Oregon Department of Transportation (ODOT)/American Public Works Association (APWA) and the American Water Works Association (AWWA).

SEE SITE DRAINAGE AND GRADING PLAN, SITE EXCAVATION PLAN, SITE SURCHARGE/PRELOADING PLAN AND EXCAVATION/STRUCTURAL FILL/SURCHARGE X-SECTIONS IN APPENDIX 1 THIS TM.

#### 6. Plans, Diagrams, Computations, Specifications and Other Data

Attached design drawings show the extent of planned excavations, structural fill placement and site preloading with surcharge material. A copy of the project's April 12, 2021, Geotechnical Report, by Terra Associates, Inc. accompanies this Excavation and Grading Plan and Permit Application package.

Summaries of estimated excavation, structural fill and surcharge material quantities are shown on attached drawings. SEE EXCAVATION/STRUCTURAL FILL/SURCHARGE CROSS SECTIONS & DETAILS IN APPENDIX 1 THIS TM.

## 7. Grading Designation/Engineered Grading Requirements/Regulatory Compliance

The quantity of estimated excavation, structural fill and surcharge material constitutes designation as "engineered grading". As required, by City Municipal Code, this excavation and grading plan and associated design drawings have been prepared by licensed engineers, in accordance with the City Code and other adopted provisions of the Oregon Structural Specialty Code, Appendix J.

### 8. Erosion and Sedimentation Control Plan (ESCP)

The project will follow Best Management Practices (BMP's) for erosion and sedimentation control through out construction. The project will obtain an NPDES 1200-C Permit from DEQ. SEE DEQ 1200-C PERMIT APPLICATION IN APPENDIX 2, THIS TM. An ESCP is being proposed that follows the guidance outlined in the NPDES 1200-C permit and incorporates both, 1) temporary BMP's for erosion and sedimentation control during both planned construction phases (Phase 1 and Phase 2) of excavation, structural fill placement and surcharge material placement and 2) longer term BMP's that will remain in place and monitored and maintained throughout the duration of construction. Covering of Phase 1 surcharge material is not expected to be required as this material is expected to be clean granular structural-fill-grade material that can be reused in the Phase 2 grading program. Should Phase 2 involve any surcharge topping material that is not clean granular material, appropriate ESCP protection treatments will be applied to the top surface and temporary side slopes. Truck entrance points will incorporate appropriate provisions for ensuring soil sediments are not tracked onto existing paved roads. SEE ECSP DRAWINGS IN APPENDIX 1 THIS TM.

### 9. Regular Grading Requirements

Other specifically required information per City of Warrenton Municipal Code, 16.152.060, E. is provided below:

- 9.1 Excavation and Grading Plan—This Technical Memorandum and the attached design drawings constitute this project's proposed Excavation and Grading Plan.
- 9.2 Location of Work--See herein presented and above described project site location description and attached plans/drawings.
- 9.3 Name of Owner: Roby's Furniture & Appliance Store, Kyle Langeliers, Owner Representative
- 9.4 Name of Person Who Prepared Plan: David Leibbrandt, P.E., Stricker Engineering, LLC

9.5 General Vicinity of the Proposed Sit--East Portion of Lot 1, Trondheim Acres, located between U.S. Highway 101 and Marlin Avenue, on the north side of Alternate Highway 101.

9.6 Limiting Dimensions and Depth of Cut and Fill—SEE EXCAVATION PLAN, SITE FILL & SURCHARGE/PRELOADING PLAN AND EXCAVATION/STRUCTURAL FILL/SURCHARGE CROSS SECTIONS & DETAILS IN APPENDIX 1 THIS TM. Table EG.1 presents dimensions of cuts and fills and shows the basis of calculations for estimated quantities. The project involves no permanent exposed cuts or fills. Cuts are limited to cuts required for the over-excavation under footings for structural fill placement and the back slope grading supporting structural fill and retaining walls.

9.7 Location of Any Buildings or Structure--No existing buildings are within 15-feet of proposed grading. Existing sidewalks on the north and west sides of the project site are within 15-feet of proposed excavation. Please see attached project drawings.

### 10.0 Grading Inspection

As required by City of Warrenton Municipal Code, 16.152.070, professional inspections will be provided throughout the construction process. For the excavation and grading phase of the project, design team members will provide the required services as follows:

10.1 Construction Surveying/Field Staking--By: Terra Calc Land Surveying, Inc., 1615, N.E. Miller Street, McMinnville OR, 97128; Phone: (503) 857-0935; e-mail: www.Terra-calc.com. Responsibilities: Establishing and monitoring lines and grades for construction in accordance with project design plans.

10.2 Civil Engineering--By: Stricker Engineering, P.O. Box 366, Garibaldi, OR 97118; Phone: (503) 322-2442; Responsibilities: General civil engineering observation during construction to ensure work quality and compliance with project plans and specifications and to assist with and record all approved changes relative to design plans, preparation of "as-built" grading plan.

10.3 Geotechnical Engineering--By: Terra Associates, Inc., 12220 113th NE, Ste. 130 Kirkland, Washington, 98034; Phone: (425) 821-7777; FAX: (425) 821-4334; Responsibilities: Soils and fill materials evaluations, compaction testing, updated recommendations relative to observed subsurface conditions, rock materials evaluations, required reporting of field density tests, recording and presentation of field and laboratory test results, documentation of notable changes in observed field conditions relative to project designs and plans and recommendations for any required revisions relative to geotechnical/geological factors.

#### 11. Completion of Work

Documentation of the completion of work will be provided in accordance with provisions of City of Warrenton Municipal Code, 16.152.150:

- 11.1 As-Built Grading Plan—By Civil Engineer, including statement: "To the best of our knowledge, the work within the specified area of responsibility was completed in accordance with the final approved grading plan."
- 11.2 Geotechnical Field Data Report—By Geotechnical Engineer, including statement: "To the best of our knowledge the work within the specified area of responsibility was completed in accordance with the approved soils engineering report and applicable provisions of City of Warrenton Municipal Code 16.152."

#### 12. Summary

This Technical Memorandum and the attached project design drawings constitute the project's proposed Excavation and Grading Plan. The Plan complies with all requirements of the City of Warrenton Municipal Code, 16.152 and reflects recommendations of site specific geotechnical engineering performed for the project by Terra Associates, Inc.: Geotechnical Report, Roby's Furniture, Fort Stevens Highway (Hwy 101 Business) and SE Marlin Drive, Warrenton, Oregon, April 12, 2021, a copy of which is submitted herewith. The project involves site surcharge/preloading for the pre-consolidation of subsurface soils. A two-phase excavation/structural fill/surcharge program is proposed.

END REPORT

#### **APPENDICES:**

- 1) Plans (Abbreviated Set/Reduced Size)
  - a. Cover Sheet
  - b. Site Plan
  - c. Site Drainage & Grading Plan
  - d. Site Excavation Plan
  - e. Site Fill & Surcharge/Preloading Plan
  - f. Excavation/Structural Fill/Surcharge X-Sections & Details
  - g. ESCP Sheets
- 2) 1200-C Permit

## **APPENDIX 1**

## Plans--Abbreviated Set/Reduced Size

(See 11 X 17 ½ size plans in Narrative Report Appendix and full-size plans bound separately)

#### CIVIL DRAWING INDEX

- CLS COME PREET
  CLS COMERCE, PROJECT ONTES A REPREVATIONS
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**GÉNERAL NOTES:** 

METAL ROOF 4. SITE ZONING: COMMERCIAL, C-1

REFERENCE DATUM: STATION INDEX ID: PID SC0559 DATUM: NAVD 88 ELEVATION: 8.36 FT

NORTH SIDE OF HIGHWAY 101 ALTERNATE.

LATITUDE 46 153934, LONGITUDE -123 906084

LOCATION: BETWEEN HIGHWAY 101 & MARLIN AVE, ON NORTH SIDE OF ALT, HIGHWAY 101, T.C. #81027 AB06900, T8N, R10W, SECTION 27

#### STRUCTURAL DRAWING INDEX

- 5.6 BITE FIAN
  82.5 STE SURCHARGE PRELODING PLAN
  82.5 CUMDATION PLAN
  84.5 MEZZANNE & RESTROOM PLANS
  84.6 NEZZANNE & RECORD EMPHAGM
- SUBMITTED SEPARATELY

PROPOSED DEVELOPMENT: COMMERCIAL/RETIAL STORE, HOME FURNITURE & APPLIANCES

PROPOSED BUILDING: 27,500 SQ, FT FABRICATED STEEL STRUCTURE WITH WOOD SIDING &

GENERAL LOCATION: WARRENTON, OREGON BETWEEN HIGHWAY 101 AND MARLINE AVE ON

## **ROBY'S FURNITURE**

WARRENTON, OREGON



STRICKER Engineering

#### UTILITY PROVIDERS:

PUBLIC WORKS DIRECTOR 45 SW 2ND STREET WARRENTON OREGON 97146 503-861-0917

WATER & SANTARY SEWER CITY OF WARRENTON ATTN: COLLIN STELZIG PUBLIC WORKS DIRECTOR 45 SW 2NO STREET WARRENTON CRESON 97148 503-881-0917

ELECTRICITY
PACIFIC POWER
ATTH: MARILYN BROCKEY
2340 SE DOLPHIN
WARRENTON O'REGON 97148
503-881-6005

### CABLE TELEVISION CHARTER SPECIFIUM COMMUNICATIONS

ATTN: VINNY BILLECT 41B GATEWAY AVENUE ASTORIA CREGON 97103 503-338-7710

GAS
NW NATURAL GAS
ATTN: RICH GRARD
220 NW 2ND AVE
PORTLAND CREGON 97209
503-226-4211 EXT. 2980
503-281-6169 (CELL)

ATTN MINE MEDIANER ASTORIA OREGON 97103 503-242-7678



#### PROJECT TEAM:

PROJECT ENGREER
ETROCER ENORMERING
PO BOX 2NG CARDALLE, OR STITE
CONTACT: JOHN DOYLE, PRESIDENT
PHONE: (RID) 122-2442

91290 YOUNGS RIVER RD, ASTORIA, OR 97103-CONTACT: GEOFFREY ULLDWINALL, P.E. PHONE: (925) 191-3010

CEGIECHNICA, (NON-ER TEMPA ABSOCATES, NO. 1220 11711 AVE STE UN KINGLANO, WA HISH CONFACT OWN AGUER, SONOIT ON CHECKING GEOLOGIST THEODORE SCHEPPER, P.E. PRINCIPAL

#### ENVIRONMENTAL CONSULTANT: BREGGWATER GREXIP

BREDGEWATER GROUP COMMERCE PLAZA STATE 235, 7100 HAMPTON ST, TIGARD, OR 17223 CONTACT, JUSTIS POURIOU, RG PHONE: (503) 675-6752

CONSTRUCTION CONTRACTOR (SET) WORK)
SIGNERS CONSTRUCTION INC.
35004 HIS-PROXY THE BUSINESS ASTORIA, OR STICO.
CONTACT FIRE, CAPTREY
PROXIE: (500) 338-3879.









SITE LOCATION MAP (NTS)





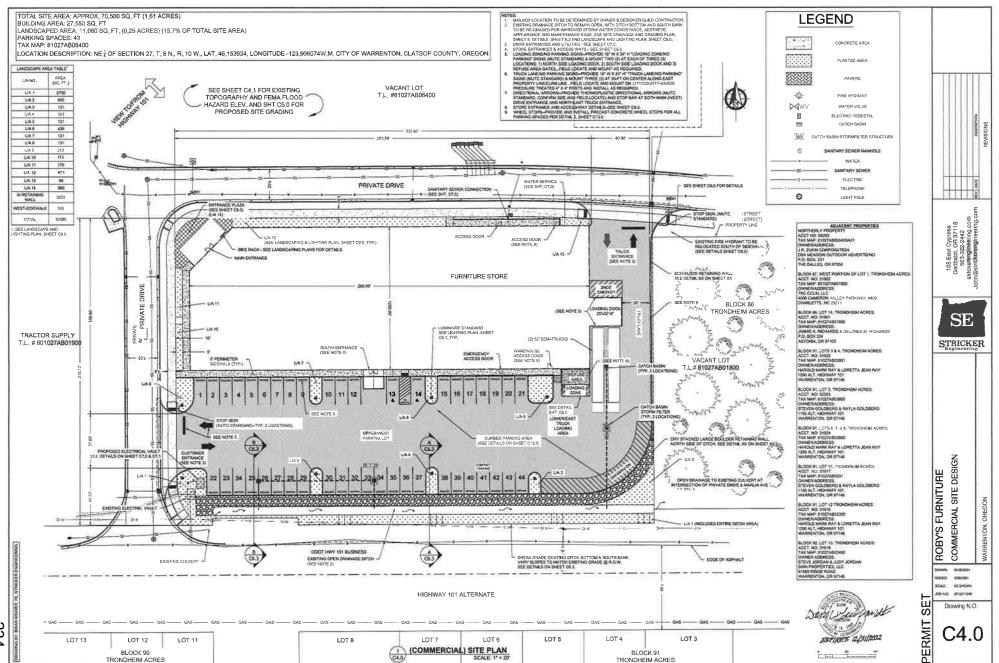
SITE VICINITY MAP (NTS)

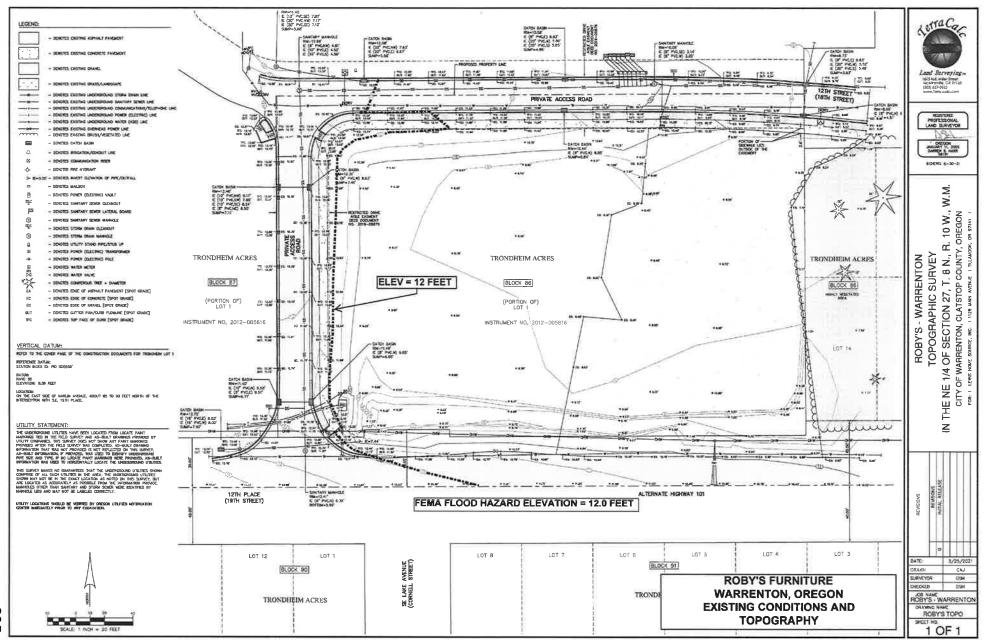
ROBY'S FURNITURE COVER SHEET

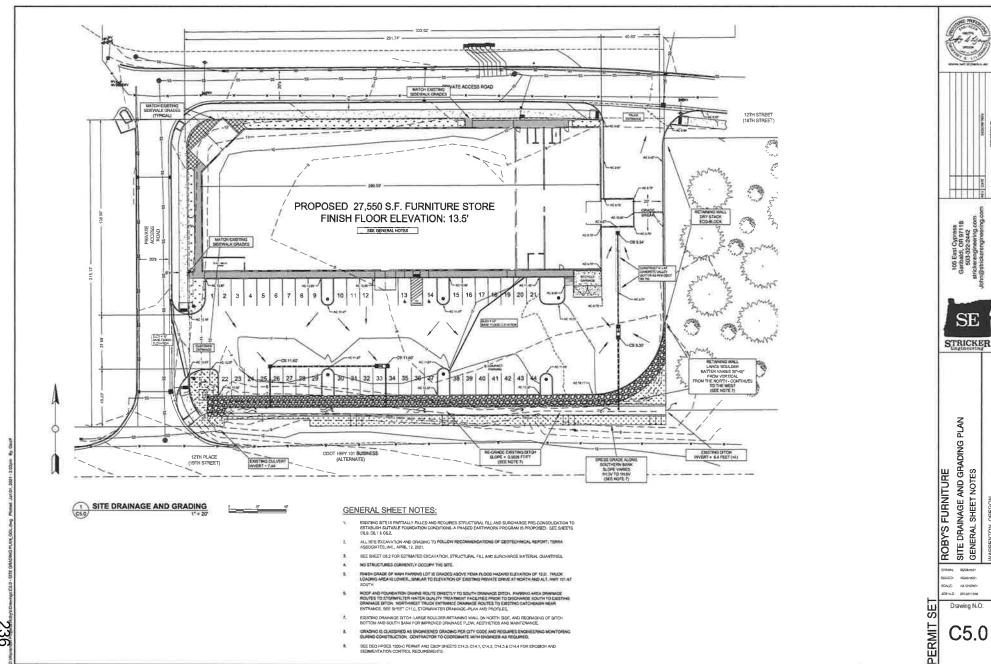
950W152T 10.03 CALE ALDIONA CENA DISTRIBU

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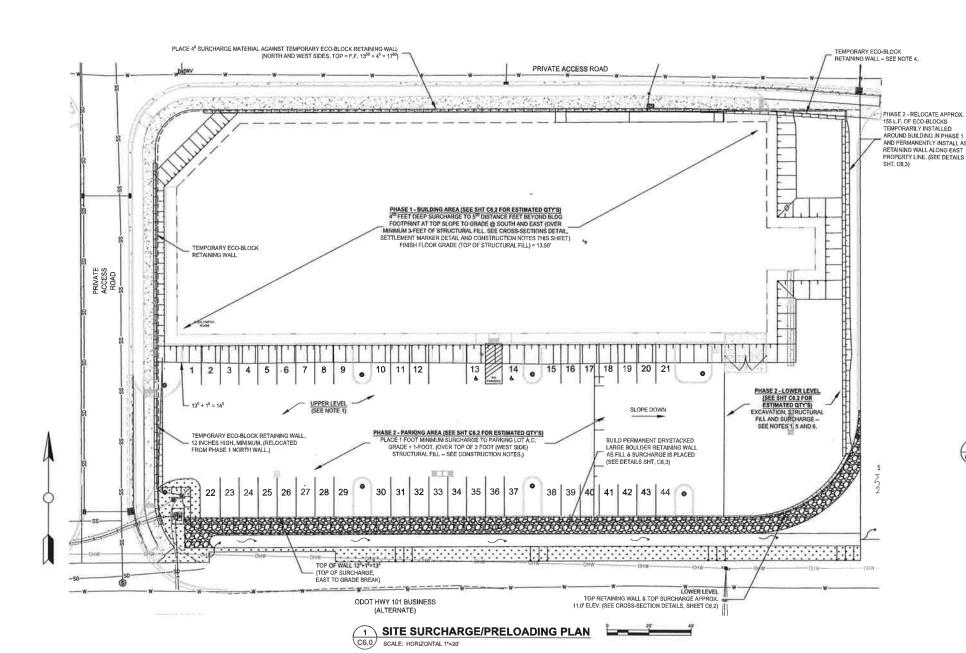






#### CONSTRUCTION NOTES

- 1, SEE "SITE DRAINAGE AND GRADING PLAN" SHEET C4.0 FOR FINISH GRADE ELEVATIONS, SEE SITE EXCAVATION PLAN, SHEET C6.1 FOR PRE-FILL EXCAVATION REQUIREMENTS, SEE EXCAVATION/STRUCTURAL FILL/SURCHARGE CROSS SECTIONS & DETAILS, SHEET C6.2, FOR EXPECTED FILL THICKNESSES, SEE DETAILS-RETAINING WALLS, SHEET C6.3 FOR CONCURRENT RETAINING WALL CONSTRUCTION REQUIRED FOR FILL AND SURCHARGE CONTAINMENT, FOLLOW RECOMMENDATIONS AND GUIDANCE PER GEOTECHNICAL REPORT (ROBY'S FURNITURE, TERRA ASSOCIATES, INC., APRIL 12, 2021)
- 2. INSTALL MIRAFI 500X GEOTEXTILE, OR APPROVED EQUAL, OVER EXISTING GROUND BEFORE PLACING STRUCTURAL FILL IN BUILDING AREA.
- 3, FIELD LOCATE AND INSTALL SETTLEMENT MARKERS PER DETAIL THIS SHEET, IN QUANTITIES AND LOCATIONS PER GEOTECHNICAL ENGINEER RECOMMENDATIONS, AND MONITOR OVER TIME, AS REQUIRED.
- 4. EXISTING SIDEWALKS-TEMPORARY "ECO-BLOCK" RETAINING WALL PLACEMENT AND SURCHARGING IN THE IMMEDIATE VICINITY OF EXISTING SIDEWALKS ON THE NORTH AND WEST SIDES OF THE PROPOSED BUILDING IS EXPECTED TO CAUSE SETTLEMENT OF ADJACENT SIDEWALKS. CONTRACTOR TO REPLACE OR RESTORE SIDEWALKS TO PRE-CONSTRUCTION GRADES AND CONDITION AFTER SURCHARGING PERIOD AS MAY BE REQUIRED.
- 5. PROVIDE EROSION AND SEDIMENTATION CONTROL THROUGHOUT CONSTRUCTION PER ESCP.
- 6. POTHOLE AND FIELD VERIFY SUITABILITY OF EXISTING FILL ON EASTERLY SIDE OF PROPERTY, PER GEOTECHNICAL ENGINEER RECOMMENDATIONS, PRIOR TO PROCEEDING WITH FILL AND SURCHARGE OPERATIONS. IT IS ANTICIPATED THAT SURCHARGE MATERIAL USED FOR THE PHASE 1 BUILDING AREA WILL MEET MATERIAL SPECIFICATION REQUIREMENTS FOR ON-SITE RE-USE AS PHASE-2 STRUCTURAL FILL.



ORFEL T NOT TO SCALE

#### NOTES:

- 1. BASE CONSISTS OF 34" THICK, 252" PLYWOOD WITH CENTER DRILLED SIE" DIAMETER HOLE.
- 2. BEDDING MATERIAL, IF REQUIRED, SHOULD CONSIST OF CLEAN COARSE SAND.
- 3. MARKER ROD IS 1/2" DIAMETER STEEL ROD THREADED AT BOTH ENDS.
- 4. MARKER ROD IS ATTACHED TO BASE BY NUT AND WASHER ON EACH SIDE OF BASE.
- PROTECTIVE SLEEVE SURROUNDING MARKER ROD SHOULD CONSIST OF 2° DIAMETER PLASTIC TUBING: SLEEVE IS NOT ATTACHED TO ROD OR BASE.
- 6. ADDITIONAL SECTIONS OF STEEL ROD CAN BE CONNECTED WITH THREADED COUPLINGS. ADDITIONAL SECTIONS OF PLASTIC PROTECTIVE SLEEVE CAN BE CONNECTED WITH PRESS-FIT PLASTIC COUPLINGS.
- II. STEEL MARKER ROD SHOULD EXTEND AT LEAST 6" ABOVE TOP OF PLASTIC PROTECTIVE SLEEVE.
- 9. PLASTIC PROTECTIVE SLEEVE SHOULD EXTEND AT LEAST 1" ABOVE TOP OF FILL SURFACE.



SETTLEMENT MARKER DETAIL TRONDHEIM ACRES WARRENTON, OREGON

Proj. No.T-7723 Date NOV 2018 Figure 3

VARIES TO APPROX 9'-0" PROPOSED BUILDING STR'L FILL VARIES TO MIRAFI 500X APPROX. 4'-6' (SEE NOTE 2)

PHASE 1 (BUILDING AREA) STRUCTURAL FILL & SURCHARGE CROSS-SECTION

PRELOADING ROBY'S FURNITURE KG

SE

STRICKER

ISSUED: 05/28/2021 SCALE: AS SHOWN

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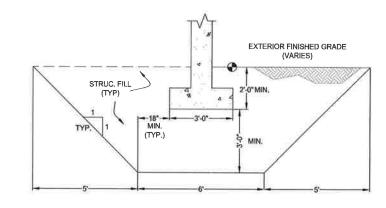
237

EXPIRES 12/31/2022

#### **EXCAVATION PLAN NOTES**

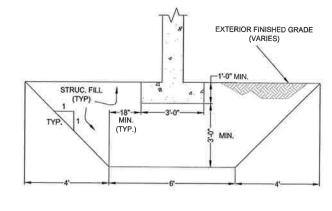
1, EXCAVATION TO FOLLOW GEOTECHNICAL REPORT GUIDANCE (TERRA ASSOCIATES, INC., APRIL 12, 2021, ROBY'S FURNITURE, WARRENTON, OR): 2, SURFACE LAYER STRIPPING GENERALLY NOT REQUIRED WHERE PLANNED STRUCTURAL FILL DEPTHS ABOVE EXISTING GRADES ARE:

- 2.1: MORE THAN THREE (3) FEET IN BUILDING AREAS
- 2.2. MORE THAN TWO (2) FEET IN PAVEMENT AREAS
- A EXCEPTION TO "A," ABOVE, WHERE EXCESSIVELY SOFT AND YIELDING SUB-GRADE IS OBSERVED, UNSTABLE SOILS SHOULD BE REMOVED TO A DEPTH OF 18-INCHES AND REPLACED WITH STRUCTURAL FILL.
- B. EXCAVATION AREAS INCLUDE ALLOWANCE FOR SIDE SLOPE CUTBACKS. C EXCAVATION AREAS SHOWN ARE BASED ON REPORT GUIDANCE FOR FOUNDATION SUPPORT:
- 3, STRUCTURAL FILL:
- 3.1. BENEATH CONVENTIONAL SPREAD FOOTINGS-PROVIDE A MINIMUM OF 3-FEET STRUCTURAL FILL EXTENDING A MINIMUM OF 12-INCHES LATERALLY BEYOND FOOTING EDGES.
- 3.2. BENEATH PAVED AREAS, PROVIDE A MINIMUM OF 18 TO 24-INCHES BELOW FINISHED GRADE.
- 3.3. PHASED EXCAVATION: 2-PHASE EXCAVATION IS ANTICIPATED WITH THE FIRST PHASE INVOLVING FOOTING EXCAVATIONS FOR THE PROPOSED BUILDING AREA AND THE SECOND PHASE INVOLVING PARKING AREAS.
- 4, AN UNCERTAIN DEPTH AND QUALITY OF ROCK-FILL HAS BEEN PREVIOUSLY PLACED ON THE EASTERLY SIDE OF THE SITE. CONTRACTOR TO POT-HOLE AT SEVERAL LOCATIONS UNDER THE OBSERVATION AND GUIDANCE OF THE GEOTECHNICAL ENGINEER SO AS TO FACILITATE A FIELD ASSESSMENT OF POTENTIAL SUITABILITY AS STRUCTURAL FILL. WHERE EXISTING ROCK FILL IS JUDGED TO BE INADEQUATE FOR STRUCTURAL FILL PURPOSES, CONTRACTOR TO EXCAVATE AS REQUIRED TO ACHIEVE MINIMUM STRUCTURAL FILL DEPTHS. TABLILATED QUANTITY ESTIMATIONS ASSUME FULL DEPTH EXCAVATION IN EASTERLY LOW-LEVEL PARKING LOT AREA.
- 5, OVER-EXCAVATION BENEATH UTILITIES-PER GEOTECHNICAL REPORT, CONTRACTOR TO OVER-EXCAVATE BENEATH ALL UTILITY STRUCTURES. PIPELINES AND CONDUITS A DEPTH OF APPROXIMATELY 2-FT TO 4-FT, AND INSTALL COMPACTED STRUCTURAL FILL, AS REQUIRED TO ESTABLISH SOUND FOUNDATION CONDITIONS, PROVIDE MIRAFI 500X GEOTEXTILE FABRIC BETWEEN EXCAVATED GROUND SUB-BASE AND FOUNDATION STRUCTURAL FILL:



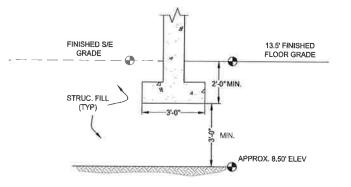
#### **CASE 1 FOOTING CONDITION**

X - SECTION (TYPICAL) SCALE: 1/2" = 1'



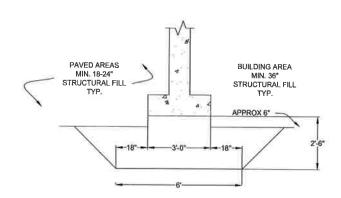
#### **CASE 2 FOOTING CONDITION**

X - SECTION (TYPICAL) SCALE: 1/2" = 1'



#### **CASE 3 FOOTING CONDITION**

X - SECTION (TYPICAL) SCALE: 1/2" = 1'



#### **CASE 4 FOOTING CONDITION**

X - SECTION (TYPICAL)



SITE EXCAVATION PLAN ROBY'S FURNITURE

SE

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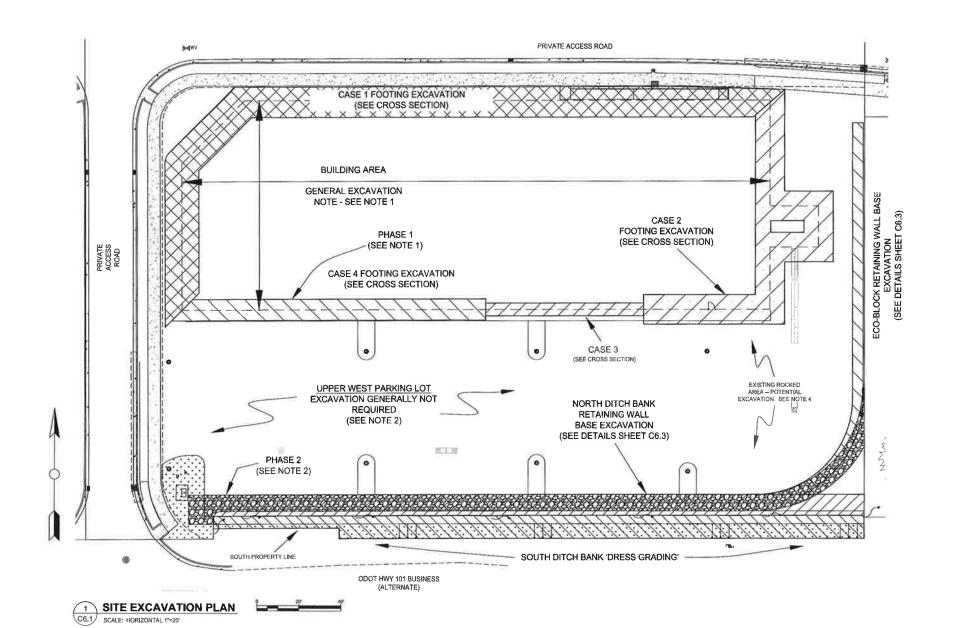
SSUED: 05/21/2021 SCALE: AS SHOWN

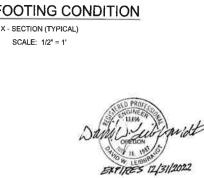
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#### EARTHWORK (EXCAVATION/STRUCTURAL FILL/SURCHARGE) NOTES:

1. EXCAVATION, STRUCTURAL FILL PLACEMENT AND SITE SURCHARGING TO FOLLOW GEOTECHNICAL REPORT GUIDANCE (TERRA ASSOCIATES, INC., APRIL 12, 2021, ROBY'S FURNITURE, WARRENTON, OR):

- A, SURFACE LAYER STRIPPING GENERALLY NOT REQUIRED WHERE PLANNED STRUCTURAL FILL DEPTHS ABOVE EXISTING GRADES ARE:
- MORE THAN THREE (3) FEET IN BUILDING AREAS
- MORE THAN TWO (2) FEET IN PAVEMENT AREAS
- B, EXCEPTION TO "A," ABOVE, WHERE EXCESSIVELY SOFT AND YIELDING SUBGRADE IS OBSERVED, UNSTABLE SOILS SHOULD BE REMOVED TO A DEPTH OF 18-INCHES AND REPLACED WITH STRUCTURAL FILL.
- C., EXCAVATION AREAS INCLUDE ALLOWANCE FOR SIDE SLOPE CUT BACKS.
- D. EXCAVATION AREAS SHOWN ARE BASED ON REPORT GUIDANCE FOR FOUNDATION SUPPORT:
- BENEATH CONVENTIONAL SPREAD FOOTINGS-PROVIDE A MINIMUM OF 3-FEET STRUCTURAL FILL EXTENDING A MINMIMUM OF 12-INCHES LATERALLY BEYOND FOOTING EDGES,
- BENEATH PAVED AREAS, PROVIDE A MINIMUM OF 18 TO 24-INCHES BELOW FINISHED GRADE,
- 2. PHASED EARTHWORK PROGRAM-A TWO PHASE EARTHWORK PROGRAM IS PLANNED AS FOLLOWS:

#### A. PHASE 1-BUILDING AREA:

- OVER EXCAVATE FOOTING AREAS AND PLACE STRUCTURAL FILL FOUNDATION MATERIAL. II. CONTSTRUCT TEMPORARY ECO-BLOCK RETAINING WALLS. NORTH AND WEST SIDE.
- III. INSTALL STRUCTURAL FILL TO FINISHED FLOOR ELEVATION (13.5')
- IV. INSTALL 4' THICK SURCHARGE MATERIAL
- V. PRECONSOLIDATE SUBSURFACE-MONITOR SUBSURFACE CONSOLIDATION OVER 3-4 MONTH PERIOD, WITH PRECONSOLIDATION COMPLETE, PROCEED TO PHASE 2.

#### B: PHASE 2-PAVED AREAS:

- IN EXCAVATE "SURFACE SOFT SPOTS" AND EXCAVATE RETAINING WALL FOOTING AREAS AND PLACE STRUCTURAL FILL, BEGIN RETAINING WALL CONSTRUCTION,
- II. POTHOLE AND ASSESS EAST SIDE ROCK-FILL AREA PER NOTE 3 BELOW, OVEREXCAVATE "SHALLOW AREAS" AS REQUIRED AND PLACE STRUCTURAL FILL AT REQUIRED DEPTHS TO FINISH GRADES PER SITE DRAINAGE AND GRADING PLAN.
- III. CONSTRUCT RETAINING WALLS AS STRUCTURAL FILL IS PLACED.
- IV. INSTALL SURCHARGE MATERIAL AND FINAL RETAINING WALL "TOP-OUT"
- 3. AN UNCERTAIN DEPTH AND QUALITY OF ROCK-FILL HAS BEEN PREVIOUSLY PLACED ON THE EASTERLY SIDE OF THE SITE. CONTRACTOR TO POT-HOLE AT SEVERAL LOCATIONS UNDER THE OBSERVATION AND GUIDANCE OF THE GEOTECHNICAL ENGINEER SO AS TO FACILITATE A FIELD ASSESSMENT OF POTENTIAL SUITABILITY AS STRUCTURAL FILL, WHERE EXISTING ROCK FILL IS JUDGED TO BE INADEQUATE FOR STRUCTURAL FILL PURPOSES, CONTRACTOR TO EXCAVATE AS REQUIRED TO ACHIEVE MINIMUM STRUCTURAL FILL DEPTHS, TABULATED QUANTITY ESTIMATIONS ASSUME FULL DEPTH EXCAVATION IN EASTERLY LOW-LEVEL PARKING LOT AREA.

#### PHASE 1 BUILDING FOOTING EXCAVATION & STRUCTURAL FILL ESTIMATED QUANTITIES

Sub-Area Description	Length (ft)	Excav. X-Sect'n Area (ft²)	Excav. Volume (cf)	Excay. Volume (cy)	Str'l Fill X-Sect'n (ft²)	Str I Fill Volume (cf)	Str T Fill Volume (cy)
*Case 1 *Case 2 *Case 3 *Case 4 Subtotals: Subt'l Rnd-offs:	362 231 75 140	45 33 -0- 21.5	16,290 7623 -0- 3.010 26,923 (27,000)	603 282 -0- 111 997 (1,000)	40 30 -0- 21	14,460 6,930 -0- 3.010 24,400 (24,500)	536 256 -0- 111 904 (900)
Retaining Walls: *E. PL Ret Wall *N. Ditch Bank *SE Planter Subtotals: Subt'l Rnd-offs:	155 315 ZQ	20 52,5 25	3,100 16,538 <u>1,750</u> 17,450 (17,500)	115 612.5 <u>65</u> 646 (650)	20 48,5 <u>25</u>	3,100 15,278 <u>1,750</u> 16,190 (16,200)	115 565 <u>65</u> 745 (750)

#### PHASE 1 BUILDING AREA STRUCTURAL FILL

Sub-Area Description	Area (sf)	Depth or Length (ft)	Volume (cf)	Volume (cy)
Bldg Footprint	27,550	5	137,750	5,102
Loading Dock Perim, Shldr	460	5	2,300	85
*N, Wall	750	2.5	1,875	69
*NW Entry	430	1	430	16
*West Wall	4,200	1	4,200	155
*South Wall	2,610	5	13,050	483
*East Wall	1,323	5	6,615	245
*Slope Shidrs	12.5	437	<u>5.463</u>	202
Subtotals: Subt'l Rnd-offs:			171,683 (172,000)	6,357 (6,400)

#### SUMMARY TABLE--ESTIMATED VOLUME QUANTITIES

#### EXCAVATION/STRUCTURAL FILL/SURCHARGE MATERIALS

#### ITEM DESCRIPTION ESTIMATED QUANTITY

	DD111-1111D	o Quintitit
EXCAVATION:	CUBIC FEET	CUBIC YARDS
	(C.F.)	(C.Y.)
Phase I Building Footings	27.000	1.000
*Retaining Walls	20,000	800
*Phase 2 Parking & Access Areas	8.600	320
TOTAL ESTIMATED EXCAVATION:	55,600 CF	2,120 CY
STUCTRURAL FILL:		
Phase I Building Area		
-Footing Support	24.500	900
-Main Building Area (2)	172,000	6,400
*Phase 2 Parking Access Areas		
-Upper/Westerly Parking Area	F7.000	2.100
	57,000	2,100 525
-Lower Easterly Area (3)	14,000	
-Retaining Walls	20,000	750
TOTAL ESTIMATED SURCHARGE MATERIAL	287,500 CF	10,675 CY
SURCHARGE MATERIAL:		
Phase 1 Building Area	130,000	4,820
Phase 2 Parking & Access Areas	25,000	930
TOTAL ESTIMATED SURCHARGE MATERIAL	155,000 C.F.	5,750 C.Y
Contractor to pothole existing rock-fill area		
in presence of geotechnical engineer to		
determine material sultability as structural		
fill. Quantities shown represent potential		
excavation requirements if existing rock		
material is judged unsuitable.		
<ol><li>Structural Fill on south and east sides</li></ol>		
extends beyond the recommended		
"footprint and 5-feet perimeter" as regulred		1
to support surcharge material,		
<ol><li>Includes approximately 320 cy's (8,600 cf)</li></ol>	1	1
of "Potential" Structural Fill to replace	1	
potentially unsultable existing rock -ill		
material. See notes.	21	

#### PHASE 1 BUILDING AREA SURCHARGE ESTIMATED QUANTITIES

Sub-Area Description	Area (sf)	Depth or Lngth (ft)	Volume (cf)	Volume (cy)
Bidg + 5' (expt ret. wlls)	31,668	4	126,672	4,692
Sloped Shiders	442	8	3,536	130
Subtotals: Round-offs			129,808	4,822 (4,820)

#### PHASE 2 PAVED AREAS-EXCAVATION **ESTIMATED QUANTITIES**

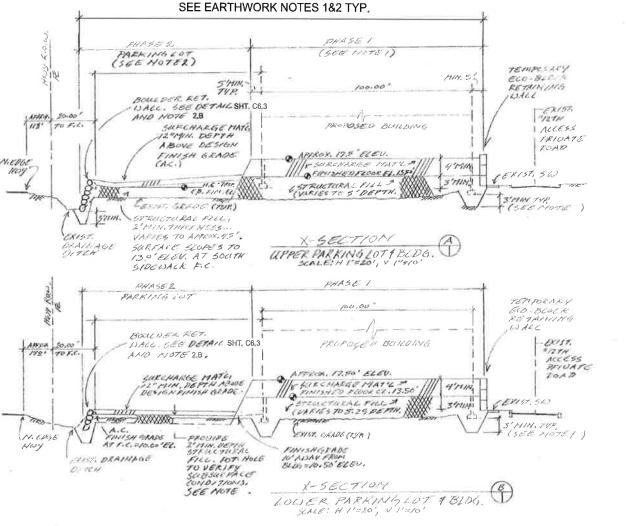
Sub-Area ID	Sub-Area Description	Area (ft²)	Ave. Depth (ft)	Volume (ft³)	Volume (cy3)
A1	W/Upr PL	16,060	-0-	-0-	-0-
A2	SE PL	4,408	1.25	5,500	204
A3	NEPL	1,012	2	2,024	75
A4	Uppr W R	N/A	-0-	-0-	-0-
A4'	Lowr W R	14	73	1,049	38
Subtotals: Round-offs				8,573 (8,600)	317 (320)

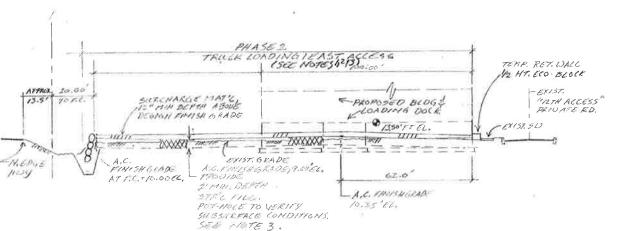
#### PHASE 2 PAVED AREAS-STRUCTURAL FILL ESTIMATED QUANTITIES

Sub-Area ID	Sub-Area Description	Area (ft²)	Ave. Depth (ft)	Volume (ft³)	Volume (cy³)
A1	W/Upr PL	16,060	3.22	51,713	1,915
A2	SE PL Top	4,408	0.75	3,306	122
A2	SE PL Pti	4,408	1,25	5,500	204
A3	NE PL Top	1,012	-0-	-0-	-0-
A3	NE PL Pot'1	1,012	2	2,024	75
A4	Uppr WR	72	74	5,328	197
A4'	LWT ER Top	31	73	2,263	84
A4'	Lwr BR Pt'l	14	73	1,049	38
SubTtl Topt			1	62,610	2,318
SubTl Pot'i:	1 1		1 1	8,573	317
Total				71,183	2,635

#### PHASE 2 PAVED AREAS-SURCHARGE ESTIMATED QUANTITIES

Sub-Area ID	Sub-Area Description	Area (ft²)	Ave. Depth (ft)	Volume (ft³)	Volume (cy3)
A1	W/Upr PL	16,060	1	16,060	595
A2	SE Park LT	4,408	1	4,408	16
A3	NE Park LT	1,012	1	1,012	37
A4&A4'	Ramp Area	3,700	1	3,700	137
SubTotal				25,180	932
Round-offs				(25,000)	(930)





X- BECTION TRUCK LOADING/EAST ACCESS
SCALE: H 1=20', V 10=10'

EXPIRES 12/31/2022

FILL/SURCHARGE EXCAVATION/STRUCTURAL FIL CROSS SECTIONS & DETAILS ROBY'S FURNITURE

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STRICKER

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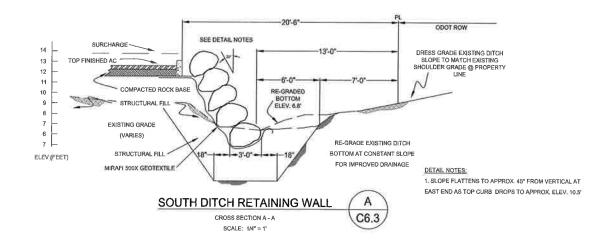
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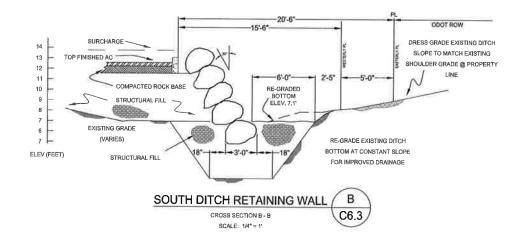
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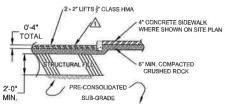
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### **ECO-BLOCK RETAINING WALL**







PAVEMENT CROSS-SECTION A SCALE: 1/4" = 1"

FINISH GRADE HMA SURFACING TO GRADES SHOWN ON SHEET C5.0, SLOPE TO DRAIN.

SEE GEOTECHNICAL REPORT FOR SUB-BASE PRE-CONSOLIDATION AND PROOF-ROLL PROCEDURES.



ROBY'S FURNITURE
DETAILS-RETAINING WALLS & PAVEMENT
CROSS-SECTIONS

SE

STRICKER

ISSUED: 05/28/2021 SCALE: AS SHOWN OB N.O: 2012211249

Drawing N.O:

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HEALT CATEGORY + AND S REMARKS ET A TAK OF GACH HERWAYS HATTER BODY	Tal),
ANTERCORD MACRET CONTRACTOR REPORTED METHOD ANTERCORD.  CONTROL TORS, UNACCURRENT, CO., ROBER, ANCORA MIC CONTROL ANTERCARD.  ANTERCY SCHOOLS ANTERCHOOM PLANTS.	>00CANCOOL/CRET PERMIT NO ANAME
SECTION THE START OF TIS OF CLEARING A DECRETION	AACOUT 2021
TETRANTE START SATES OF WASS DRADEG	AUCONT (NO.)
STIMATE STATE OF TO OF CONCURS ACCRETION	NA.
STIMP FOR THE SECOND PROPERTY OF SECOND SECO	AUGUST 2021
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#### STORM MANAGEMENT PLAN

#### PRINCETO MAY SIGNEFICANT EXCAVATION

- 1. INSTALL BEST MANAGEMENT PRACTICE (BMP) FOR EROSION PREVENTION
- Z INSTALL CONSTRUCTION ENTRANCE
- I MANTAN AS MUCH EXSTING VEGETATION AS POSSIBLE

#### DURING CONSTRUCTION

- 1. IF THE CONSTRUCTION ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, ALTERNATIVE MEASURES TO MEET STREETS FREE OF SEDMENT MUST BE USED. THESE INCLIDE STREET VACUUM SWEETING AND PLACING SEDMENT IN DESIGNATED STOCKPILE INCREASING THE DIMENSIONS OF THE ENTRANCE AND/OR INSTALLATION OF A WHEEL WASH.
- I REMOVE ANY SOIL THAT LEAVES THE SITE AND ENTERS DOWNSTREAM DIVANNOE SPETEM
- 3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION, SEDMENT AND POLLUTANT CONTROL MEASURES, TEMPORARY AND PERMANENT, IN PROPER PUNCTIONING GROER, WITHIN 24 HOURS FOLLOWING A STORM OR HIGH WIND EVENT, THE CONTRACTOR MUST ADJUST, REPAIR AND REPLACE BROSION, SEDBMENT AND POLLUTANT CONTROL MEASURES TO ENSURE THAT THE MEASURES ARE FUNCTIONING PROPERLY,
- A ALL ETDOOPLED MATERIALS BUILD BE PROTECTED MEDITEMPORARY SOIL STABILIZATION MEASURES SUCH AS PLASTIC SHEETING SECURITION WITH THE DOWNS AND SANDRAGS.

#### UPON COMPLETION OF EXCHINATION

RESPECTANT DRET PRETISONS, SEFCISHALL REFROM BLUE TAG STOCK AND FROM THE LATEST CROSS AVAILABLE THE FOLLOWING MET THE ARE APPROPRIATE FOR THE OREGON NORTH COAST

#### SCIL CONSERVATION MIX

3 L6S/ACRE 9% HYBRID RYE: TALL PESCUE 18 LBS/ACRE 52% CREEPING RESI FESCUE: # LBS/ACRE 24% \* LESACRE 25

#### VISUAL MONITORING PROGRAM

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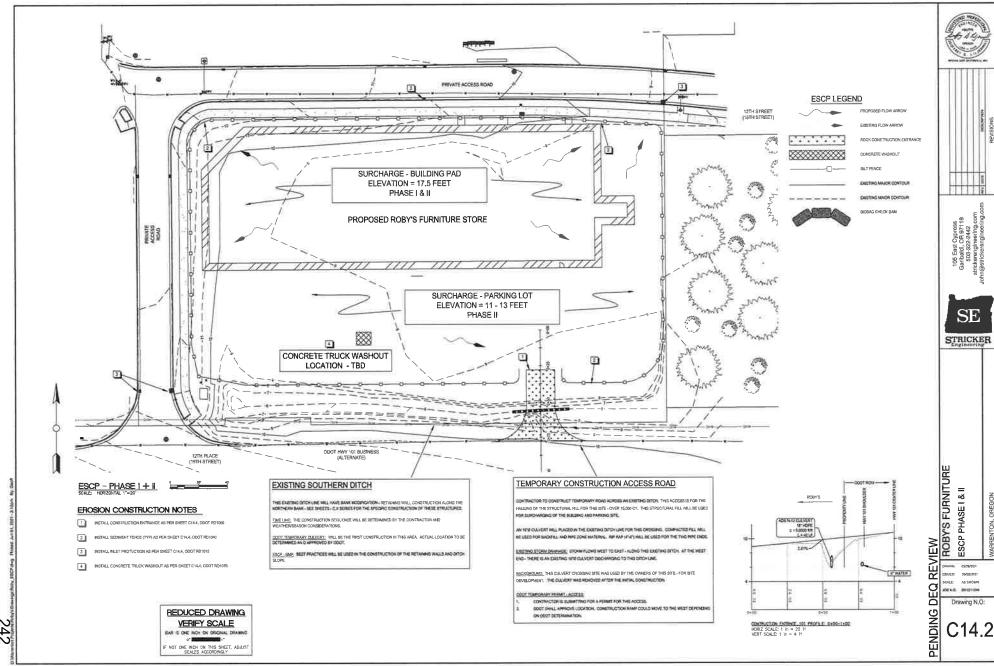
#### OREGON STANDARD ESCP NOTES

- 1, ONCE KNOWN, INCLUDE A LIST OF ALL CONTRACTORS THAT WILL ENJACE IN CONTRACTORS THAT WILL ENJACE IN CONTRACTORS WILL ENJACE IN CONSTRUCTION ACTIVITIES REVISE THE UST AS APPROPRIATE UNTIL PERMIT COVERAGE IS TERMINATED (SECTION 4.4.C.), IN ADDITION, INCLUDE A UST OF ALL PERSONNEL (BY NAME AND POSTTION) THAT ARE RESPONSBILE FOR THE DESIGN, INSTALLATION, AND MAINTENANCE OF EXCHANACION CONTROL MACALINES (E.O., ELEP DEVELOPER, MAY DEVIALED GET SECTION 4 TO, AS WELL AS THEIR PROVIDE, RESPONSABLINES. (SECTION 4.4.C.In
- 2. VISUAL MONITORING INSPECTION REPORTS MUST BE MADE IN ACCORDANCE WITH DEG 1200-C PERMIT REQUIREMENTS. (SECTION 6.5)
- 3. INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DED'S 1200-0 PERMIT REQUIREMENTS, (SECTION 6.5.Q)
- 4 RETAIN A COPY OF THE EBOY AND ALL BEYSONS ON INTERNAL OF AWAY ABLE ON REQUEST TO DEQ. AGENT, OR THE LOCAL MUNICIPALITY, ISSECTION 4.7)
- 5. THE PERMIT REGISTRANT MUST IMPLEMENT THE ESCP FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A MOLATION OF THE PERMIT. (SECTIONS 4 AND 4.11)
- E, THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SECTION 4.8)
- E. DUBMISSION OF ALL ESCP REVISIONS IS NOT RECUPED, SUBMITTAL OF THE ESCP REVISIONS IS NILLY SUBMIT ALL NECESSARY REVISION TO DOGO OR AGENT RETHER NI DAYS.
- IL SECURITIES CLEARING AND GRACING TO THE MANDA M EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SECTION 2.2.2)
- R. CREATE ENDOTH SURFACES BETWEEN SOIL SURFACE AND ERDSION AND SEDMENT CONTROLS TO PREVENT STORMWATER FROM BY PASSING CONTROLS AND PONDING, (SECTION 2.2.3) 10. SEATHY, MARK, AND PROTECT BY CONSTRUCTION FENCING OR OTHER MEMBEL CRITICAL REMARKS AND VEGETATION INCLUDING MINORITATITIESS AND ASSOCIATED ROOTING ZONES, AND
- VEGETATION AREAS TO BE PRESERVED, CONTINY VIGETATIVE BUYER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERMETER AREAS, (SECTION 2.2.1)
- 11, PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS, RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION, IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED, (SECTION 2.2.6)
- 12. MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FEET OF WATERS OF THE STATE (SECTION 2.2.4)
- 13. INSTALL PERMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS. TRAPS, AND SAFFES SEDIMENT TO AND DETRIPORATE
- 14, CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMANATER VOLUME TO MINIAGE ENDISON AT DUTLETS AND DOWNSTREAM CHARGES AND STREAM MANAGE MEDICAL VI. AND 3.2 146
- 15. CONTROL SECRETAT AS RECORD ALONG THE SITE PERMETER AND AT THE SITE SOURCES, STORY DRAW SLETS AT ALL THREE GUIRING CONSTRUCTION, SOTH INTERMELY AND AT THE SITE SOURCEAST, (SECTIONS 2,2,6 AND 2,2 13)
- 16. ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK, (SECTION 2.2,14)
- 17, APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES, TEMPORARY OR PERMANENT STABILIZATION MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT LIMEDETATED, BUCH AS DIRT ACCESS HONGS ON UTILITY YOUR PACK, ISECTIONS \$2.28 AND \$2.21)
- 18. ESTABLISH HATEIKH, AND WASTE STOTAGE AREAS, AND OTHER NON-STORMWATER CONTROLS, (SECTION 2.3.1).
- 19, KEEP WASTE CONTAINER LDS CLOSED WHEN NOT IN USE AND CLOSE LIDS AT THE END OF THE BUSINESS DAY FOR THOSE CONTAINERS THAT ARE ACTIVELY LIBED THROUGHOUT THE DAY, FOR WASTE
- CONTAINERS THAT DO NOT HAVE LIDS, PROVIDE EITHER (1) COVER (E.G., A TARP, PLASTIC SHEETING, TEMPORARY ROOF) TO PREVENT EXPOSURE OF WASTES TO PRECIPITATION, OR (2) A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE DECHARGE OF POLLUTANTS (C.G., SECONDARY CONTAINMENT), (SECTION 2.3.7)
- 20. PREMINT TRADDING OF SECONDAT ONTO PUBLIC OR PREMIE SOADS USING SWIFE SUCH ALL CONSTRUCTION EXTRACEL CRAVELLED FOR PARED) EXTE AND PREMIND AFEAS, GRAVEL ALL UNPARED ROADS
- LOCATED CHORTE, OR LIEE AN EXIT THE WASH, THESE EMPS WASH SEE IN PLACE PRIOR TO LAND- DISTURBING ACTIVITIES, (SECTION 2.2.7) 21. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE (SECTION 2.2.7.F)
- 22. CONTROL PROHISTIED DISCHARGES FROM LEAVING THE CONSTRUCTION STE, LE, CONCRETE WASH-CUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPDUNDS. (SECTIONS 1.6 AND
- ZL ENSURE THAT STEEP SLOPE AREAS WHERE CONSTRUCTION ACTIVITIES ARE NOT OCCURRING ARE NOT DISTURBED. (SECTION 2.2.10)
- 24. PREVENTISON COMPACTION IN AREAS WHERE POST-CONSTRUCTION INFILTRATION FACILITIES ARE TO BE INSTALLED. (SECTION 2.2.12)
- 25. USE BMPS TO PREVENT OR IMPUNIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILE, VEHICLE AND EQUIPMENT FLEUNG, MAINTENANCE, AND STORAGE, OTHER CLEANING AND MANTENANCE ACTIVITIES AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLIDE FUEL ANDWARDS FLUOR, AND OTHER DLS FROM VEHICLES AND HACHISERY, AS WELL AS DESIRE FERTILIZES. PRETICUES AND PROCESS AND TO MAKE COMPOSITE AND ADMINISTRATION CONSTRUCTION OPERATIONS (SECTIONS 2.2.16 AND 2.3)
- 25, PROVIDE PLANS FOR SEDIMENTATION BASINS THAT HAVE BEEN DESIGNED PER SECTION 2.2.17 AND STAMPED BY AN OREGON PROPESSIONAL ENGINEER, (SEE SECTION 2.2.17.A)
- 27. IF ENGINEERED SOLD ARE USED ON SITE, A SEDIMENTATION SAGNIBAPOUNDMENT MOST BE INSTALLED, (SEE SECTIONS 22.17 AVG 22.16)
- 28. PROVIDE A DEWATERING PLAN FOR ACCUMULATED WATER FROM PRECIPITATION AND UNCONTAMINATED GROUNDWATER SEEPAGE DUE TO SHALLOW EXCAVATION ACTIVITIES. (SEE SECTION 2.4)
- 28, IMPLÉMENT THE FOLLOWING INVENTIGIES IN HIGH AND LOCAL WHITTEN IN LITERATURE AND RESPONSE PROCEDURES, EMPLOYEE TRAVENS ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL INTS IN ALL VEHICLES, REQULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHBARRY, MATERIAL DELIVERY AND STORAGE CONTROLS, THURWING AND DOWNER, AND CONTROLS TOWNER. AND SUPPLIES (SECTION 2.3)
- 30. USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL (SECTION 2.2.9)
- 31s. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS, EXERCISE CALITION WHEN LISING TWE-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE. (SECTION 2.3.5)
- 32. IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEXIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MANTONING FUND DESIGN OF STITLE SO CHARGE, LOCATION OF SYSTEM LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) REFORE OPPRATING THE TREATMENT SYSTEM, DISTAIN ENVIRONMENTAL MANAGEMENT PLAN APPROVAL FROM DEQ BEFORE OPPRATING THE TREATMENT SYSTEM, OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS (SECTION 1.2,8)
- 33. TEMPORARILY STABLIZE SORS AT THE END OF THE SHIFT BEFORE HOUDAYS AND WEEKENDS, IF NEEDED, THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOLS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR (SECTION 2.2)
- 34. AS MEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPLES MUST BE STABILIZED OR COVERED, ON OTHER WAS THE WAS THE WORK WITH TO PERMAN DESCRIPTIONS. SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS, (SECTION 2.2.8)
- 16. SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL (SECTION 2.1.5.8)
- 56. OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS); REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND SEFORE BMP REMOVAL (SECTION 2.1.5.C.)
- ST. CATCH BASINS: CLEAN BEFORE RETENTION; CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT, SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS SEFURE DESIGN CAPACITY HAS BEEN MEDICED BY FIFTY PROCESS AND AT COMPLETION OF PROJECT, INSCRICT LAD
- M. WHEN IN HOUSE, MINNE CAST, MISMAN THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED, INVESTIGATE THE CAUSE OF THE SEDMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DECHARGE WITHIN THE SAME OF HOURS, ANY INSTRUME OLUMNUP OF SECRETAR SHALL SEPTEMBERS ACCORDING TO THE ORDIGINE DEPARTMENT OF STATE LANGE RECURRED. THEFTIME (SECTION 2.2 19.4)
- 39. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND WATERIAL FICKUP MUST BE LISED TO CLEANUP RELEASED SEDMENTS (SECTION 2.2.19)
- 40, DOCUMENT ANY PORTION(S) OF THE SITE WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARELY MACTIVE FOR 14 OR MORE CALENDAR DAYS. (SECTION 6.5.F.)
- 41, PROVIDE TEMPORARY STABLIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACHFIER, LOOSE STRAW, DRIAN AZEQUATE COVERNO OF COMPOST MALCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE, (SECTION 2.2.20) 42. DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED, CACE CONSTRUCTION IS COMPLETE AND THE SITE IS
- STABLIZED, ALL TEMPORARY BROSION CONTROLS AND RETAINED MOVED AND DISPOSED OF PROPERLY, LIRLESS NEEDED FOR LONG TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE, (SECTION

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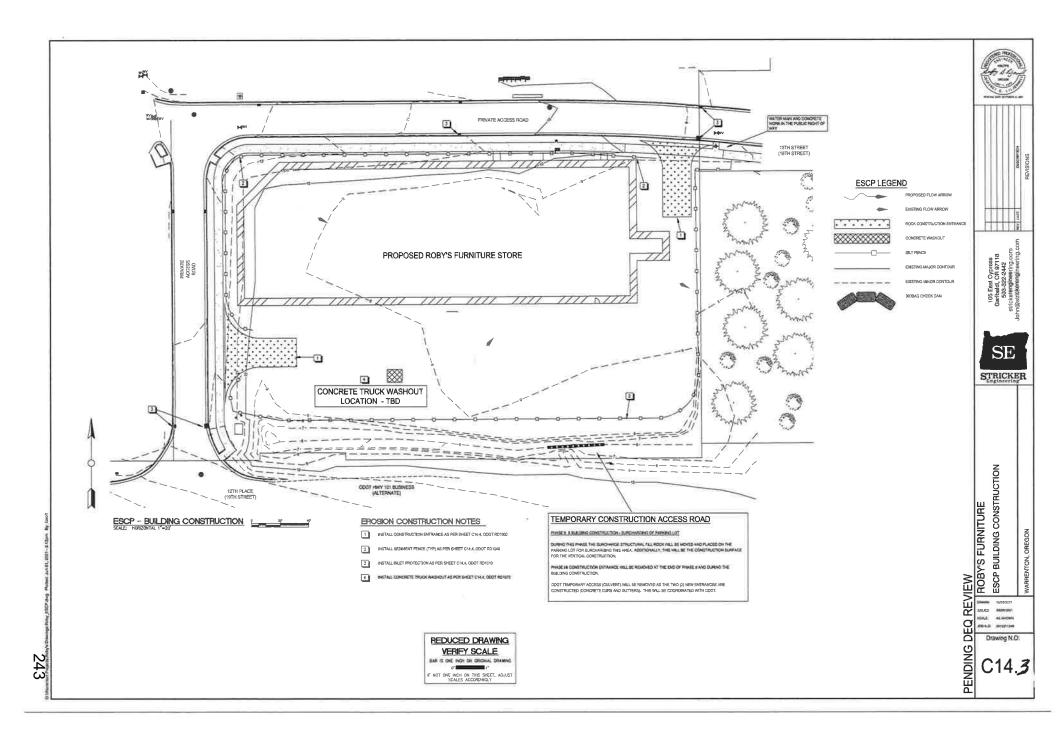


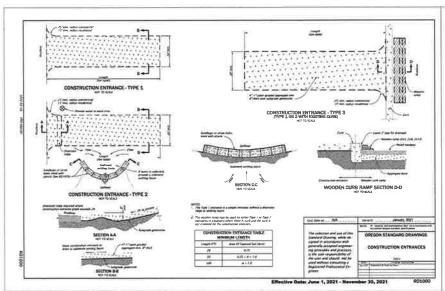
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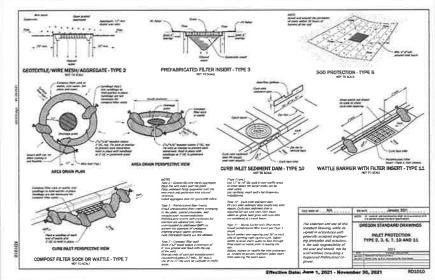


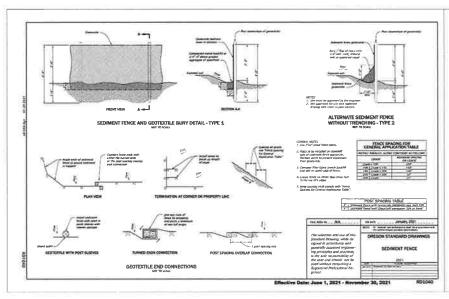


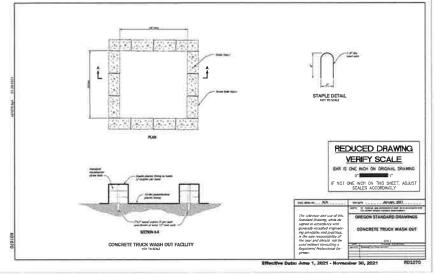












105 East Cypress Garbaldi, OR 97118 503-322-242 Intokerentelmentelacom



STRICKER Engineering

REVIEW
ROBYS FURNITURE
ESCP ODOT Details

ESUED: 05/25/2021 SCALE AS SHOWN PENDING DEQ

Drawing N.O: C14.4

## **APPENDIX 1**

**DEQ 1200-C PERMIT APPLICATION** 

### **Oregon Department of Environmental Quality**



# Application For New NPDES General Permit 1200-C Coverage

Instructions for Completion of 1200-C Construction Stormwater Application: For stormwater discharges to surface waters from construction activities, disturbing one acre or more, or less than an acre but is part of a common plan of development or sale that do not meet automatic coverage requirements (see page 3 for additional information).

#### A. PROJECT INFORMATION

- - Permit coverage may be transferred from one party to another. For example, a developer may apply for a permit and then
    transfer the permit to a contractor. Transfer forms:
- Provide invoice contact information for billing of DEQ annual permit fee if different from the applicant in #1 above. This is the
  person or entity legally responsible for payment of the annual fee invoice. This must be the same company as the applicant, not a
  third party independent of the applicant.
- Provide contact information for the Architect or Consulting Engineer who designed the Erosion and Sediment Control Plan (ESCP) and Dewatering Plan, if applicable.
- 4. Provide information on the Erosion and Sediment Control Visual Monitoring Inspector. This is not a DEQ or DEQ Agent inspector; this is an inspector employed by the applicant. Include the inspectors' qualification program, certification number and expiration date
- 5. Provide the common name of the project (for example, the name of the subdivision), the location of the site, and, if available, a street address.
- 6. Check the box that best describes the nature of the construction activity. If "other" is selected, describe the use and include a Standard Industrial Classification Code (visit for codes). For projects that have submitted a joint permit application, please provide the US Army Corps of Engineers assigned number.
- 7. Enter latitude and longitude for the approximate center of the site, to the nearest 15 seconds. Latitude and longitude can be obtained from DEQ's location finder web site at and latitude to appear you can also zoom in and re-center until you find the area. You may want to turn off DEQ interests to eliminate the yellow dots and you may want to turn on the Aerial Photos to help you locate the site (note that the aerial photos are over ten years old). The latitude and longitude will be indicated on the left side of the page once you have checked the locate place at the top of the page and clicked on a location.
- 8. If known, specify approximate start date. Provide information on the project size as indicated (based on the total project and not just a single phase). If the project is less than an acre and part of a common plan of development there is no annual fee.
- 9. If a proposed construction site has a DEQ assigned Environmental Cleanup Site Information (ECSI) number associated with the property, an Environmental Management Plan must be submitted to DEQ. DEQ maintains the ECSI database to track sites in Oregon with known or potential contamination from hazardous substances, and to document sites where DEQ has determined that no further action is required. For projects that anticipate contaminated soils, contaminated groundwater, or hazardous materials will or have the potential to be encountered during construction activities or the need for active treatment system, an Environmental Management Plan is required. This includes a plan review fee (Table 70F) for treatment of contaminants beyond sediment (See Appendix A and at:
- 10. Indicate the name(s) of the receiving water(s) (i.e., indicate where stormwater runoff during construction will flow). Request information from local authority or other resource to determine the name of the receiving waterbody. The receiving water may be a lake, stream, river, wetland or other waterbody, and may or may not be located adjacent to the site. Stormwater from the project site may discharge directly to the receiving water or indirectly via a storm sewer system, an open drain or ditch, or other conveyance structure. Do NOT list a human-made conveyance, such as a storm sewer system, as the receiving water. If the site discharges to an irrigation channel or ditch, the applicant must also indicate the owner or operator of the irrigation channel or ditch. Indicate the first natural receiving water the stormwater discharge from the project site enters.

For example, if the project site discharge enters a storm sewer system, that empties into Trout Creek, which flows into Pine River, the receiving water is Trout Creek, because it is the first natural waterbody the project site discharge will reach. Similarly, a discharge into a ditch that feeds Spring Creek should be identified as "Spring Creek" since the ditch is a human-made conveyance. If your site discharges into a municipal separate storm sewer system (MS4), the applicant must identify the waterbody into which that portion of the storm sewer discharges. That information should be readily available from the operator of the MS4.

- 11. Indicate whether stormwater runoff during construction will discharge directly to or through a storm sewer or drainage system that discharges to a Total Maximum Daily Load (TMDL) or 303(d) listed waterbody for turbidity or sedimentation. To make this determination, the following tools are available on DEQ's website:
  - WQ Assessment page: listing status Category 5 (303d) and Category 4a (TMDL approved).

to search criteria: waterbody and

### B. SIGNATURE OF LEGALLY AUTHORIZED REPRESENTATIVE

#### **DEFINITION OF LEGALLY AUTHORIZED REPRESENTATIVE:**

Please also provide the information requested in brackets []

- Corporation president, secretary, treasurer, vice-president, or any person who performs principal business functions; or a
  manager of one or more facilities that is authorized in accordance to corporate procedure to sign such documents.
- Partnership General partner [list of general partners, their addresses, and telephone numbers].
- Sole Proprietorship Owner.
- City, County, State, Federal, or other Public Facility Principal executive officer or ranking elected official.
- Limited Liability Company Member [articles of organization].
- Trusts Acting trustee [list of trustees, their addresses, and telephone numbers].

(please see 40 CFR §122.22 for more detail, if needed)

#### APPLICATION AND FEE SUBMITTAL

uthorize permit registration, the following must be completed and submitted to the appropriate DEQ regional office or Agent
Complete and accurate DEQ application form signed by the Legally Authorized Representative. DEQ LUCS and associated
Findings.
Erosion and Sediment Control Plan Narrative, if applicable.
Environmental Management Plan, if applicable.
Dewatering Plan, if applicable.
Stormwater Erosion and Sediment Control Plan Drawings; full-sized hard copy and electronic file.
Applicable permit fee. Appropriate fees are available at  Please make check payable to DEQ. All stormwater permits charge an application fee and an annual fee upon registration. DEQ will invoice the annual fee amount if your project coverage extends more than a year. Please note: if submitting an Environmental Management Plan to address contaminants or operate an Active Treatment System, a review fee will be charged as indicated in Table 70H.

#### APPLICATION AND FEE SUBMITTAL

Submit this application, Narrative Parts I, II & III (if applicable), LUCS, Erosion and Sediment Control Plan (full-sized hard copies and electronic copy), Dewatering and/or Environmental Management Plan and the applicable fee to the appropriate DEQ regional office or DEQ Agent listed below. Please send electronic copy (CD or thumbdrive) of ESCP with permit application submission package.

### AGENTS AND REGIONAL OFFICES CONTACTS

City of Eugene

99 W. 10th Avenue, Eugene, OR 97401 541-682-2706

#### Clean Water Services

2550 SW Hillsboro Highway, Hillsboro, OR 97123 503-681-5101

Includes Banks, Beaverton, Cornelius, Durham, Forest Grove, Gaston, Hillsboro, King City, North Plains, Sherwood, Tigard, Tualatin, and portions of Washington Co. City of Troutdale 342 SW 4th Street, Troutdale, OR 97060 503-674-3300

> Rogue Valley Sewer Services 138 West Vilas Road, P.O. Box 3130 Central Point, OR 97502 541-664-6300

DEQ North	west Region	DEQ West	ern Region	DEQ Easte	rn Region
700 Lloyd Building 700 NE Multnomah St., Suite 600 Portland, OR 97232 503-229-5263 or 1-800-452-4011		165 East 7th Avenue, Suite 100 Eugene, OR 97401 541-686-7930 or 1-800-844-8467		800 SE Emigrant Avenue, Suite Pendleton, OR 97801 541-278-4605 or 1-800-304-3513	
Clackamas		Lane		Hood River	Sherman
Clatsop		Lincoln		Jefferson	Umatilla
Columbia		Linn		Klamath	Union
Multnomah		Marion		Lake	Wallowa
		Josephine	Jackson	Deschutes	Crook
Tillamook		Polk		Malheur	Wasco
Washington		Yamhill		Маггоw	Wheeler
		Benton	Douglas	Grant	Gilliam
		Coos	Сшту	Baker	Harney

	DEQ USE ONLY File #:
-	
<b>Applicat</b>	on
LLID/RM	
River Mi	e:
Legal Na	me Confirmed:
Matan	

State of Oregon

[2] To Department of Environmental Quality

### APPLICATION FOR NEW NPDES GENERAL PERMIT 1200-C

For stormwater discharges to surface waters from construction activities disturbing one acre or more that do not meet automatic coverage requirements.

DEC	USE ONLY
Date Received:	
Amount: \$	
Check #:	
Check Name:	
Deposit #:	
Receipt #	
Notes:	

- 1. Disturbs less than one acre and is located in Gresham, Troutdale, or Wood Village.
- Disturbs less than five acres and is located in Albany, Corvallis, Eugene, Milwaukie, Multnomah Co. (unincorporated areas), Springfield, West Linn, or Wilsonville.
- 3. Disturbs less than five acres and is within the jurisdictions of Clackamas Co. Water Environment Services [Gladstone, areas within Clackamas Co. Service Dist. #1 (excluding Happy Valley), and areas within the Surface Water Management Agency of Clackamas Co. (including Rivergrove)], Clean Water Services (Banks, Beaverton, Cornelius, Durham, Forest Grove, Hillsboro, King City, North Plains, Sherwood, Tigard, Tualatin, and Washington Co. within Urban Growth Boundary), or Rogue Valley Sewer Services.

A. PROJECT INFORMATION							
Applicant (Responsible Person or entity legally responsible for permit)     Warrenton Property Investments, LLC			2. Invoicing information (person or entity legally responsible for payment of annual fee invoice; not a third party independent of the applicant)				
				Warrenton Property Investments, LLC			
Contact Name			Invoice Contact Name (if different from applicant)				
Kyle Langeliers				Kyle Langeliers			
5111 North Coast		lress /		5111 North Coast I	Addre Highway	SS	
City	St	ate	ZIP Code	City	State	ZIP Code	
Newport	Oregon		97365	Newport	Oregon	97365	
Telephone		Е	mail Address	Telephone		Email Address	
503-812-8267		Kyle@ro	obysfumiture.com	503-812-8267		Kyle@robysfurniture.com	
3. Architect/Engineering Firm (Erosion and Sediment Control Plan)		4. Applicant's Designated Erosion and Sediment Control Inspector Justin Pounds					
Stricker Engineering							
Project Manager		Company Name					
David Leibbrandt				Bridgewater Group			
Telephone		Email Address		Telephone		Email Address	
		leibbran	dtdw@yahoo.com	503-410-4763		jpounds@bridgeh2o.com	
			Qualification progra CESCL #CWT21-1		n number and expiration date tion: 1/21/2024		

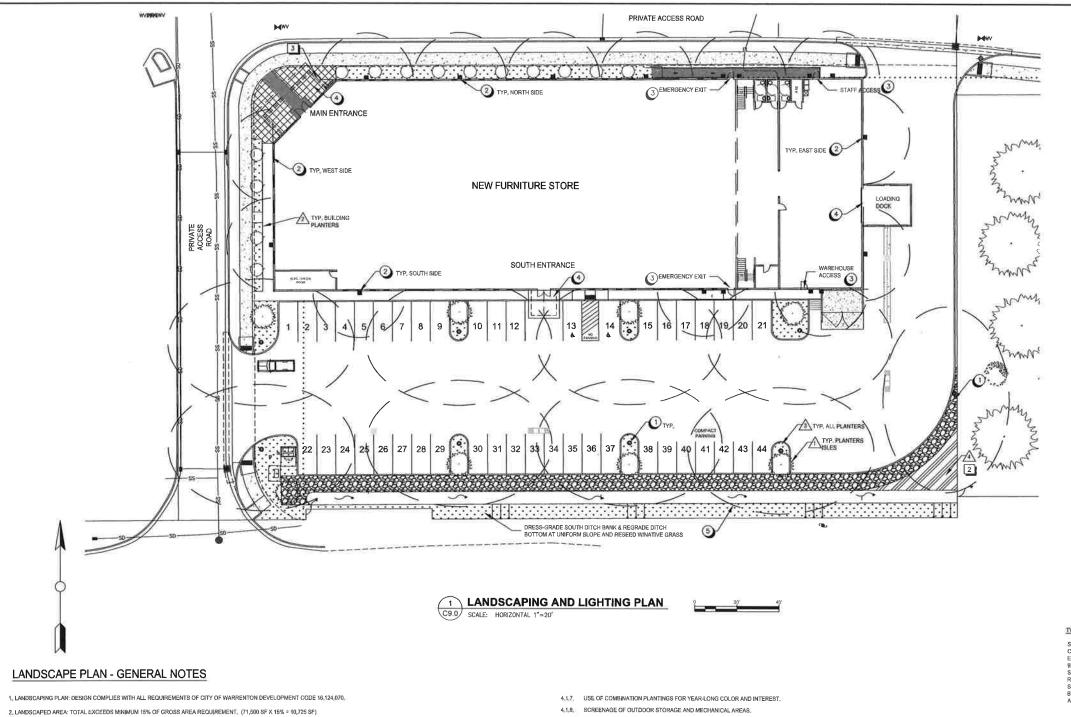
<sup>\*</sup>A project may be eligible for "automatic coverage" under NPDES general permit 1200-CN if stormwater does not discharge to a waterbody with a TMDL or 303(d) listing for sediment or turbidity and it meets one of the following criteria (see 1200-CN at

5. Name of Project			6. Nature of Construction Activity				
Roby's Furniture			☐ Single Family (SIC Code 1521)				
Address or Cross Street			☐ Multi-Family Residential (SIC Code 1522)				
NW Comer of Fort Stephens Hwy and SE Marlin Dr			☑ Commercial (SIC Code 154)				
City	State	ZIP Code	☐ Industrial (SIC Code 1541)				
Warrenton	Oregon	97146	☐ Highway (SIC Code 1611)				
	County		☐ Restoration (SIC Code 1629	)			
Clatsop Cou	nty		☐ Utilities (SIC Code 1623):				
			☐ Other (SIC Code required):				
			☐ Army Corps No. (if any):				
7. Approximate locat	tion of center of site.		8. Approximate start date:	August 1, 2021			
Latitude: 46.153	934		Total Site Acreage (acres): 1.38				
			If less than 1-acre, is site part of a common plan of development?				
Longitude: -123.	906084		☐ Yes ☐ No				
Dongation. 120.	000001		Total Disturbed Area (acres): 1.3	8			
**For assistance:			Total Number of Lots: 1				
9. Is there soil or g	groundwater contami	nation located within	n the site boundary	☐ Yes	☑ No		
Will you be dewatering during construction (plan review fee may apply)?				□ Yes	☑ No		
Has an ESCI N	Number been assigned	to the site by DEQ?		□ Yes	☑ No		
Will construct	ion activities impact th	e contaminated media	?	□ Yes	☑ No		
Depth to C	Groundwater: 3-5 ft b	egs	Data Source:	ODOT Phas	e II Report		
10. Receiving waterb	ody - Must identify fir	al discharge location	of construction stormwater flows.				
Waters of the Sta	ate (name or descriptio	n):					
	C. Accimination		am receiving waterbody):				
Ditch (include de	ownstream receiving w	aterbody): Ditch along	north side of Fort Stevens Highway, re	eceiving waterboo	ty:Holbrook Slou		
	el or ditch (include ow						
Infiltration device	e(s) (construction stor	mwater discharge to u	nderground injection control/drywell is	prohibited):			
Other:							
			or through a storm sewer or drainage 03(d) listing for turbidity or sedimentat				
**For assistance	e: DEQ assessment dat	abase page at	Harris or her hare hare	Server St. Same			
			AUTHORIZED REPRESENTATIV	Έ			
The legally authorize	zed representative must	sign the application (	see instructions - Section C).				
belief. In addition,		mit fees required by	ation is true and correct to the best of Oregon Administrative Rules 340-04 naintain the permit.				
Kyle Langeliers							
Name of Legally	Authorized Represent	ative (Type or Print)	Tit	le			
Signature of	Legally Authorized	Representative	Da	te			

5. Name of Project			6. Nature of Construction Activity			
Roby's Furniture			☐ Single Family (SIC Code 1521)			
Address or Cross Street			☐ Multi-Family Residential (SIC Code 1522)			
NW Corner of Fort Stephens Hwy and SE Martin Dr			☑ Commercial (SIC Code )	542)		
City	State	ZIP Code	☐ Industrial (SIC Code 154	JOHA,		
Warrenton	Oregon	97146	☐ Highway (SIC Code 1611)			
	County		☐ Restoration (SIC Code 16	(29)		
Clatsop Co	ounty		☐ Utilities (SIC Code 1623)	):		
			Other (SIC Code required	i):		
			☐ Army Corps No. (if any):			
7. Approximate lo	cation of center of sit	2	8. Approximate start date:	August 1, 2	021	
Latitude: 46.1  Longitude: -1			Total Site Acreage (acres): 1.38  If less than 1-acre, is site part of a common plan of development?  □ Yes □ No  Total Disturbed Area (acres): 1.38			
**For assistance:		258	Total Number of Lots: 1			
9. Is there soil o	r groundwater conta	amination located with	iin the site boundary	☐ Yes	☑ No	
Will you be	dewatering during or	instruction (plan review	feemay apply)?	☐ Yes	☑ No	
Has an ESC	I Number been assign	ned to the site by DEQ?		☐ Yes	☑ No	
Will constr	action activities impa	t the contaminated med	ia'	□ Yes	☑ No	
Depth t	o Groundwater: 3-5	ft bgs	Data Sour	obot Pha	ase II Report	
10. Receiving wat	erbody - Must identif	tinal discharge location	n of construction stormwater flows.			
Waters of the	State (name or descri	ption):				
Municipal sto	rm sewer or drainage	system (include downstr	ream receiving waterbody):			
Ditch (include	e downstream receivir	ig waterbody): Ditch alor	ng north side of Fort Stevens Highway	y, receiving watert	ody:Holbrook Slo	
Irrigation cha	nnel or ditch (include	owner or operator):	2. COLANDO - MINIMINATOR CONTRACTOR OF THE COLON			
Infiltration de	evice(s) (construction	stormwater discharge to	underground injection control dry we	H is prohibited):		
Other:						
11. Stormwater i waterbody w	unoff during construction a Total Maximum	tion discharges directly Daily Load (TMDL) or	to or through a storm sewer or draina 303(d) listing for turbidity or sedimer	ige system that disputation?   □ Ye	charges to a s	
**For assista	mce: DEQ assessment	dualuse page at				
	A CONTRACT OF THE STATE OF THE					
The legally author	orized representative i	nust sign the application	(see instructions = Section C).			
belief. In additio	on. I agree to pay all	contained in this appli permit fees required by ed annually by DEQ to	ication is true and correct to the be y Oregon Administrative Rules 340 maintain the permit.	st of my knowled 1-045. This includ	ge and les a	
Kyle Langelier	S		k	MI		
Name of Legal	ly Authorized Repre	sentative (Type or Print	)	Title		
	1 1	•		5/11/21		
	e of Legally Authoriz	i D		Date		

## APPENDIX D

Landscape Plan (Stricker Engineering, May 2021)



#### 3. LANDSCAPE MATERIALS:

- 3.1. NATURAL VEGETATION PRESERVED-SOUTH SIDE OPEN DRAINAGE DITCH TO BE PRESERVED AS NATURAL VEGETATION.
- 3.2. PLANT SELECTION-ALL NEW PLANTINGS TO BE "LOCAL CLIMATE" HARDY NATIVE SPECIES,
- 3.3. NON-NATIVE, INVASIVE PLANTS PROHIBITED-ALL INVASIVE HIMALAYAN BLACKBERRIES ON-SITE TO BE REMOVED. 3.4. HARDSCAPE FEATURES-COVER LESS THAN 90% MAX, OF LANDSCAPED AREA.
- 3.5. NON-PLANT GROUND COVERS-BARK DUST, CHIPS, AGGREGATE, ETC. SHALL BE LESS THAN 90% OF TOTAL LANDSCAPED AREA.
- 3.6. TREE SIZE-NEW TREES TO HAVE A MINIMUM CALIPER SIZE OF 1.5-INCHES.
- 3.7. SHRUB SIZE-ALL NEW SHRUBS TO BE BALLED AND BURLAPPED TO FIT IN MULTI-GALLON CONTAINERS.
- 3.8. GROUNDCOVER SIZE-SIZE AND SPACING SO AS TO COVER A MINIMUM OF 30% OF UNDERLYING SOIL WITHIN TWO YEARS.
- 3.9. SIGNIFICANT VEGETATION PRESERVED-PRESERVED NATURAL VEGETATION IS INCLUDED IN LANDSCAPED AREA TOTAL.
- 3.10. STORMWATER FACILITIES-NATIVE SOILS (UNDISTURBED PLANTS AND EMBEDDED PLANT ROOTS & SEEDS) OF EXISTING OPEN DRAINAGE DITCH BOTTOM AND SOUTH-SIDE BANK TO BE PRESERVED AND WATER TOLERANT NATIVE PLANTING TO BE RESTORED WITH PROPOSED RE-GRADING.

4. LANDSCAPE DESIGN STANDARDS-DESIGNS COMPLY WITH ALL REQUIREMENTS OF CITY DEVELOPMENT CODE 16,124,070.E,

- 4.1. SET BACK LANDSCAPING:
- 4.1.1. VISUAL SCREENING FOR PRIVACY, OPEN ENTRANCES FOR SECURITY.
- 4.1.2. TREES AND SHRUBS AS WIND BREAKS.
- 4.1.3. RETAINAGE OF NATURAL VEGETATION WHERE PRACTICABLE.
- 4,1,4, DEFINITION OF PEDESTRIAN PATHWAYS AND OPEN SPACES WITH LANDSCAPE MATERIALS,
- 4.1.5. USE OF SIGNATURE TREES, HEDGES, FLOWERING PLANTS AS FOCAL POINTS.
- 4.1.B. LISE OF TREES FOR SUMMER SHADING IN COMMON AREAS...

- 4.1. PARKING AREAS:
- 4.1.1. MINIMUM LANDSCAPING OF 8% OF PARKING AREA PROVIDED.
- 4,1.2, MINIMUM PLANTING OF ONE TREE PER FIVE PARKING SPACES WITH EVENLY DISTRIBUTED PLANTING SCHEME (TREES, BUSHES & GROUNDCOVER)
- 4.1.3. MORE THAN 20 PARKING SPACES ARE REQUIRED, THUS, LANDSCAPE ISLANDS ARE INCLUDED AT NO LESS THAN ONE ISLAND PER 12 CONTIGUOUS SPACES.
- 4.1.4. ALL LANDSCAPE AREAS ARE GREATER THAN MINIMUM 4-FT X 4-FT REQUIREMENT.
- 4.2 BUFFERING AND SCREENING:
- 4.2.1, PARKING/MANEUVERING AREA ADJACENT TO STREETS AND DRIVES—EVERGREEN HEDGE (GREATER THAN MINIMUM 38-INCH HEIGHT) SCREENING TO BE PROVIDED IN BUFFER PLANTER SOUTH OF MAIN PARKING LOT ENTRANCE,
- 4.2.2. PARKING/MANEUVERING AREA ADJACENT TO BUILDING-AS REQUIRED, 5-FOOT WIDE (GREATER THAN 4-FT MIN,) RAISED SIDEWALK PATHWAY IS PROVIDED AT THE SOUTH SIDES OF THE NEW BUILDING AS A BUFFER BETWEEN THE BUILDING AND THE PARKING AREA.
- 4.2.3. SCREENING OF MECHANICAL EQUIPMENT, OUTDOOR STORAGE, SERVICE AND DELIVERY AREAS-A NON-SEE-THROUGH GATED/FENCED ENCLOSURE IS PROVIDED AT THE SOUTHWEST CORNER OF THE BUILDING, SCREENING RECYCLING AND REFUSE BINS.
- 5. MAINTENANCE AND IRRIGATION-AS ENCOURAGED, DROUGHT-TOLERANT PLANT SPECIES WILL BE USED AS PLANT MATERIALS TO THE EXTENT AVAILABLE AND PRACTICARI F. UNDERGROUND IRRIGATION IS NOT PLANNED TO BE INCLUDED. LANDSCAPE CONTRACTOR TO PROVIDE TEMPORARY WATERING SERVICE AND MAINTENANCE WARRANTY.
- 6. DETAILED LANDSCAPE PLANTING PLAN, PLANT SELECTION, MATERIALS SUPPLY, PLANTING AND MAINTENANCE CONFORMING TO ABOVE REQUIREMENTS TO BE PROVIDED BY DESIGN/BUILD LANDSCAPING CONTRACTOR.

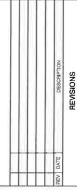
#### CONSTRUCTION NOTES - LANDSCAPING

- LANDSCAPE PLANTING AND IRRIGATION-DETAILED LANDSCAPE PLANTING PLAN AND PLANTING TO BE PROVIDED BY DESIGN/BUILD (D/B) CONTRACTOR, FOLLOWING CITY STANDARDS. SEE "GENERAL PLANTING THEME" TABLE, THIS SHEET, DROUGHT TOLERANT PLANTINGS ARE PLANNED WITH TEMPORAPYONITIAL IRRIGATION TO BE PROVIDED BY LANDSCAPE CONTRACT UNTIL ALL PLANTS BECOME WELL ESTABLISHED,
- SOUTHEAST CORNER PLANTER-GRADE SOUTHEAST CORNER PLANTER AREA TO MATCH SOUTHEAST CORNER PLANTER-GRADE SOUTHEAST CORNER PLANTER AREA 10 MAILUR EXISTING GRADES TO EAST AT PROPERTY LINE AND DITCH GRADE TO SOUTH, PLANT WITH NATURAL WETLANDS PLANTINGS\_PER D/B CONTRACTOR PLANTING PLAN.
- BICYCLE PARKING.—PROVIDE MINIMUM 9 SPACES WITH TWO SPACES BEING LONG TERM, PER CITY CODE/AMOUNT ACTOR OF THE CONTRACTOR OF THE CONTRACTOR

#### CONSTRUCTION NOTES - LIGHTING

- PLANTER ISLE LIGHT STANDARDS-PROVIDE CAST-IN-PLACE CONCRETE LIGHT STANDARD OUNDATION BASE PER STRUCTURAL PLANS, DETAILED LUMINAIRE DESIGN AND LIGHTING CONSTRUCTION BY D/B CONTRACTOR.
- BUILDING MOUNTED LIGHTING-PROVIDE HIGH MOUNTED LUMINAIRES ON BUILDING FOR SUPPLEMENTARY LIGHTING. DESIGN AND INSTALLATION BY DIB CONTRACTOR. SEE STRUCTURAL PLANS,
- 3 EXTERIOR DOOR LEVEL LIGHTING—FIELD LOCATE AND INSTALL EXTERIOR DOOR-LEVEL LIGHTING AT ALL SIDE ACCESS DOORS PER D/B CONTRACTOR.
- 4 STORE ENTRANCE LIGHTING-OVERHEAD RECESSED LIGHTING TO BE PROVIDED AT BOTH MAIN NORTHWEST AND SOUTH CUSTOMER ENTRANCES UNDER AWNINGS AND AT REAR LOADING DOCK. DETAILED DESIGN AND INSTALLATION BY DIB CONTRACTOR, SEE STRUCTURAL PLANS.
- EXTERIOR SITE LIGHTING-GENERAL LIGHT FIXTURE LOCATIONS AND INTENDED LIGHTING COVERAGES ARE SHOWN ON PLANS. DETAILED LUMINARIE DESIGN (INCLUDING STANDARD SYTLE AND HEIGHT TO BE PERFORMED BY VIDE CONTRACTOR TO PROVIDE AMPLE LIGHTING FOR CUSTOMER CONVENIENCE, PUBLIC SAFETY AND SITE SECURITY.







PLAN

LANDSCAPING AND LIGHTING

RAWN: 05/28/2021

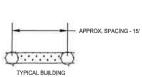
ISSUED: 05/28/2021

SCALE: AS SHOWN

IOB N.O: 2012211249

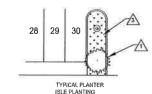
Drawing N.O:

ROBY'S FURNITURE



#### TYPICAL WETLANDS PLANT LIST:

- Cascara Elderberry Pacific 9bark
- Spirea Douglasi Red Twig Dogwo Bog Willow



#### GENERAL PLANTER THEME



SIGNATURE TREE



TALL COLUMAR TREE



MIXED BED PLANTING: ORNAMENTAL GRASSES/SHRUBS/GROUNDCOVER... VARYING SHAPE, SIZE & COLOR



WETLANDS PLANTINGS



F NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

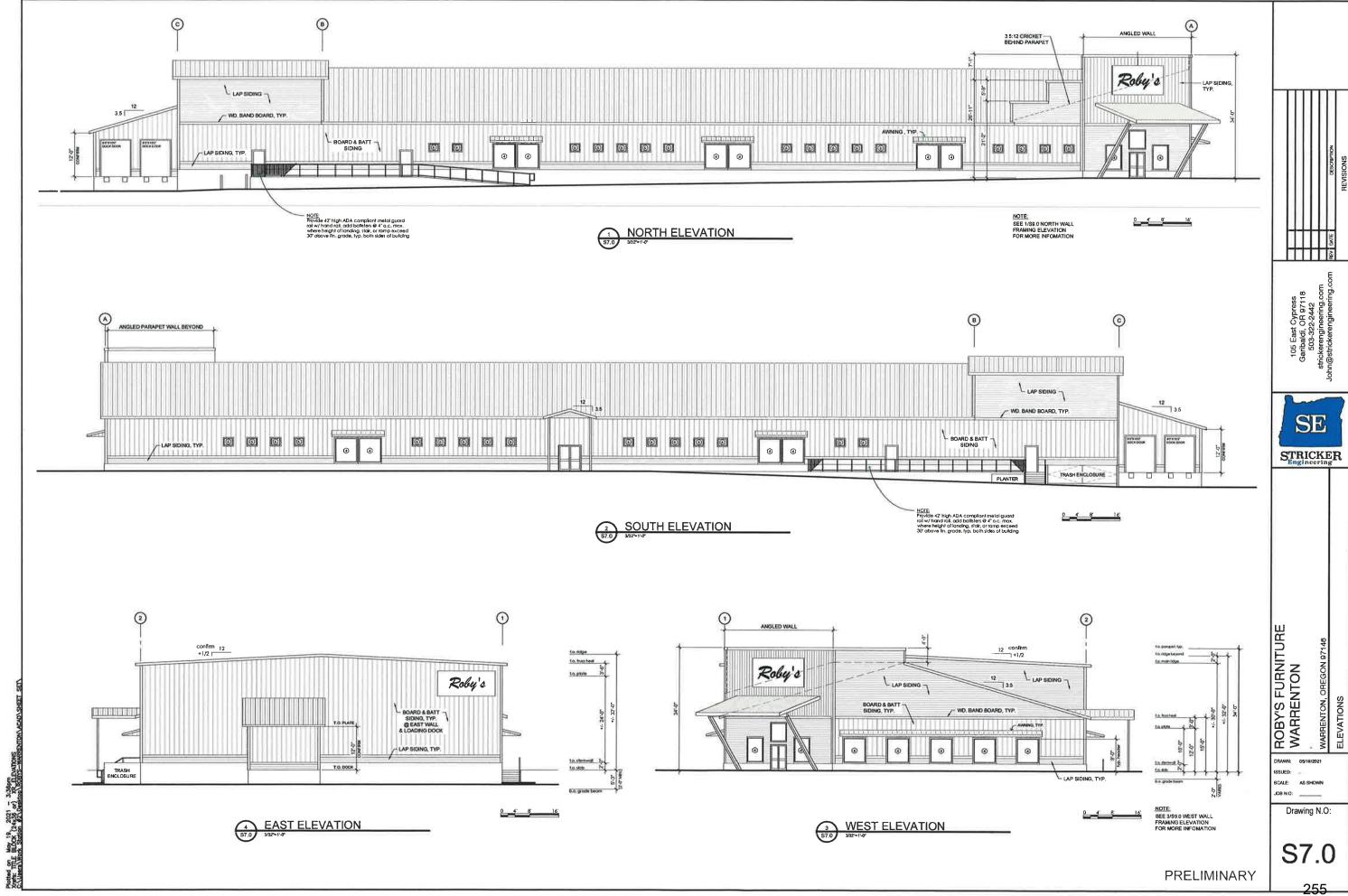
SET PERMIT

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## **APPENDIX E**

Architectural Drawing, Proposed Roby's Furniture & Appliance Store Technical Memorandum (Stricker Engineering, May 2021)



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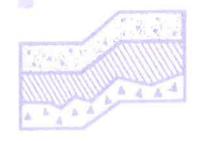
## APPENDIX F

Geotechnical Report, Proposed Roby's Furniture & Appliance Store Technical Memorandum (Terra Associates, Inc., April 2021)

## **GEOTECHNICAL REPORT**

Roby's Furniture Fort Stevens Highway (Hwy 101 Business) and SE Marlin Drive Warrenton, Oregon

Project No. T-7723-2



# Terra Associates, Inc.

Prepared for:

Warrenton Property Investment, LLC Newport, Oregon

**April 12, 2021** 



# TERRA ASSOCIATES, Inc.

Consultants in Geotechnical Engineering, Geology and Environmental Earth Sciences

> April 12, 2021 Project No. T-7723-2

Mr. Kyle Langeliers Warrenton Property Investment, LLC 5111 North Coast Highway Newport, Oregon 97365

Subject:

Geotechnical Report

Roby's Furniture

Fort Stevens Highway (Hwy 101 Business) and SE Marlin Drive

Warrenton, Oregon

Dear Mr. Langeliers:

As requested, we have completed a geotechnical report for the Roby's Furniture project in Warrenton, Oregon. The purpose of our study was to further explore the subsurface soil and groundwater conditions in the planned development area and to develop geotechnical engineering recommendations for project design and construction.

Our field exploration indicates the site is generally underlain by about 32 to 62 feet of very soft, wet, compressible silt. Groundwater levels observed in our subsurface explorations are generally about 2 to 3 feet below ground surface.

In our opinion, building support using standard spread footing foundations will be feasible. However, in order to gain suitable support, all foundations will need to bear on a minimum of three feet of granular structural fill. Also, to avoid unacceptable building and pavement settlements, all of the planned development area will require surcharging to consolidate the compressible soils prior to construction.

The attached report presents our recommendations regarding these, issues along with other geotechnical aspects of project design and construction. We trust the information presented in this report is sufficient for your current needs. If you have any questions or require additional information, please call.

Sincerely yours,

TERRA ASSOCIATES, INC.

AFE SA

Principal P

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Site-Sn	ecific S	eismic Design Report

# Geotechnical Report Roby's Furniture Fort Stevens Highway (Hwy 101 Business) and SE Marlin Drive Warrenton, Oregon

#### 1.0 PROJECT DESCRIPTION

A conceptual development plan by Stricker Engineering dated December 21, 2020, shows the project consisting of a new retail building and associated paved parking located in the southeastern portion of the 16.8-acre Trondheim Acres site. The proposed building will be a 28,000-square-foot fabricated steel structure with metal siding and a metal roof. Paved passenger vehicle parking and truck access/loading dock areas are located on the south and east sides of the building, respectively. We understand that structural loading will be light with columns carrying 32 kips and continuous bearing walls carrying 0.875 kips per foot.

The recommendations contained in the following sections of this report are based on the above design features. If actual features vary or changes are made, we should review them in order to modify our recommendations, as required. We should review the final design drawings and specifications to verify our recommendations have been properly interpreted and incorporated into project design and construction.

#### 2.0 SCOPE OF WORK

Our scope of work for this project included a review of our previous subsurface explorations, laboratory testing, and engineering analyses conducted as part of a geotechnical engineering study for the Trondheim Acres property in 2017, completion of a supplemental subsurface exploration within the planned development area, engineering analysis, and preparation of this report. The supplemental subsurface explorations conducted for this study consisted of two cone penetration tests (CPTs) advanced to depths about 37 and 42 feet below ground surface.

Using the results of our field explorations and laboratory testing, analyses were undertaken to develop geotechnical recommendations for project design and construction. Specifically, this report addresses the following:

- Soil and groundwater conditions.
- Seismic per ASCE 7-16.
- Site preparation and grading.
- Excavations
- Foundations
- Slab-on-grade floors.
- Lateral earth pressures for wall design.
- Subsurface drainage.
- Utilities
- Pavements

#### 3.0 SITE CONDITIONS

#### 3.1 Surface

The planned site development area consists of approximately 1.5 acres of undeveloped land located north of and adjacent to Fort Stevens Highway (Hwy 101 Business) and approximately 160 feet to 500 feet west of SE Marlin Drive in Warrenton, Oregon. The site location is shown on Figure 1.

Site topography is relatively flat and elevations are generally several feet lower than existing roadways bordering the southern, western, and northern site margins. The eastern portion of the site has been filled with an unknown thickness of crushed rock. Much of the crushed rock visible on the ground surface consists of 6- to 18-inch diameter quarry spalls. Site vegetation generally consists of grasses.

A roadside ditch parallels the southern site margin along Fort Stevens Highway. The ditch contained a moderate volume of static or very slow flowing water during a February 4, 2021, site visit.

#### 3.2 Soils

The subsurface conditions observed in Boring B-1, located about 25 feet north of the proposed building area, consist of about 62 feet of very soft, wet, estuarine silt, fine sandy silt, and slightly clayey to clayey silt, with occasional layers of loose to medium dense fine sand to silty fine sand and soft to medium stiff peat. These alluvial soils overly hard, moist, residual elastic silt interpreted to be the informally named Smuggler Cove formation. The soil conditions indicated by the CPT data are generally consistent with the conditions observed in Boring B-1, with the exception of the depth to the Smuggler Cove formation, which decreases to about 32 feet below ground surface approximately 45 feet south of the proposed building.

The Geologic Map of the Astoria Basin, Clatsop and Northernmost Tillamook Counties, Northwest Oregon by A. R. Niem and W. A. Niem (1985) shows geology at the subject site mapped as Quaternary alluvium (Qal) that includes estuarine clay, silt, and fine sand in low-lying coastal areas in and along the Columbia River, Youngs Bay, and other major river mouths. The unconsolidated deposits observed in the subsurface explorations are consistent with the description of this geologic map unit. The lower member of the informally named Smuggler Cove formation (TSC<sub>1</sub>), described as thick-bedded tuffaceous silty claystone, is mapped about one mile south-southeast from the subject site.

The log of Boring B-1 and the CPT data are presented in Appendix A. The approximate boring and CPT locations are shown on Figure 2.

#### 3.3 Groundwater

Groundwater was encountered between depths of about 2.5 feet and 62 feet during drilling of Boring B-1. Hydrostatic levels determined from pore pressure dissipation testing conducted at CPT-1 (September 13, 2017) and CPT-102 (February 19, 2021) were at depths of 2.80 feet and 1.97 feet, respectively. Considering dissipation tests were performed in both the relatively dry late summer and the relatively wet late winter, it appears the shallow groundwater conditions beneath the site exist year-round.

#### 3.4 Geologic Hazards

We evaluated site conditions for potential geologic hazards related to the occurrence of a severe seismic event including soil liquefaction, ground shake amplification, and tsunami inundation. A review of the Oregon Department of Geology and Mineral Industries (DOGAMI) Interpretive Map Series IMS–10 (Relative Earthquake Hazard Maps for Selected Urban Areas in Western Oregon) indicates the subject site is located within an area identified as Relative Earthquake Hazard Zone A, which is the highest potential hazard zone with respect to ground shaking amplification, soil liquefaction, and seismically-induced landsliding. Based on our study, it is our opinion that subsurface conditions beneath the site are susceptible to ground shaking amplification and soil liquefaction. The flat site conditions are not susceptible to landsliding.

#### Liquefaction

Liquefaction is a phenomenon where there is a reduction or complete loss of soil strength due to an increase in water pressure induced by vibrations. Liquefaction mainly affects cohesionless soils of low density below the groundwater table. Soils of this nature derive their strength from intergranular friction. The generated water pressure, or pore pressure, essentially separates the soil grains and eliminates this intergranular friction, thus eliminating the soil's strength. Because the fine-grained soils (silt and clay) underlying the site exhibit cohesive strength, they are not significantly affected by the liquefaction phenomenon.

We completed a liquefaction analysis using the computer program LiquefyPro published by CivilTech Corporation. The analysis was completed using a site-modified peak ground acceleration (PGA<sub>M</sub>) of 0.726g representing the peak horizontal acceleration for the maximum considered earthquake (MCE) having a 2 percent probability of exceedance in 50 years. The value was obtained for Latitude 46.15429118°N and Longitude -123.90683408°W using the Structural Engineers Association of California (SEAOC) U.S. Seismic Design Maps website (https://seismicmaps.org/). The results of the liquefaction analysis are attached in Appendix B.

The results of our analysis indicate that soil liquefaction could occur at the site during a design earthquake event resulting in total settlements ranging between about 0.5 to 6.7 inches, with about one-half of this settlement likely being differential in nature. In our opinion, this amount of settlement would not structurally impair the building. However, cosmetic damage to the structure in the form of misaligned doors and windows, cracking, and floor settlement could occur. Some utility connections may also be impacted. If the owner is not willing to accept the risk of building damage requiring repair should liquefaction-induced settlements occur, foundations should be supported on ground improved using stone columns designed to mitigate soil liquefaction settlements below the building foundations.

#### Seismic Design Parameters

Based on soil conditions noted in the CPT logs, the test boring log, and our knowledge of the area geology, per Chapter 16 of the current International Building Code (IBC), site class "F" should be used in structural design. Because of this site class, per the current IBC which references ASCE 7-16, a site-specific seismic study is required to determine the design spectrum. The site-specific seismic design report is included in Appendix C.

#### Tsunami

Review of Plates 1 and 2 of the DOGAMI *Tsunami Inundation Maps for Warrenton South – Rilea, Clatsop County, Oregon* (2013) indicates the vast majority of the site area is located within areas of tsunami inundation for both local source (Cascadia Subduction Zone [CSZ]) and distant source (Alaska-Aleutian Subduction Zone) seismic events.

#### 4.0 DISCUSSION AND RECOMMENDATIONS

#### 4.1 General

Based on our study, it is our opinion that development of the site as proposed is feasible from a geotechnical engineering standpoint. The primary geotechnical concerns for the planned development are the presence of low-strength, compressible native soils that are susceptible to consolidation when loaded, and the presence of relatively shallow groundwater that may impact deeper utility excavations.

In our opinion, the potential for post-construction settlement due to consolidation can be mitigated by surcharging the planned development area. In our opinion, surcharging in building area should be accomplished by raising grades to the planned floor elevations, then placing an additional 4-foot surcharge fill above the floor elevation, and allowing settlements to occur under this load before building construction is initiated. In our opinion, surcharging of paved parking and driveway areas will also be necessary. Surcharging of paved areas should consist of a minimum 12-inch surcharge fill placed above finished grade.

Following successful completion of the surcharge program, the proposed building can be supported on conventional spread footings bearing on a minimum of three feet of compacted granular structural fill. In our opinion, the native silt soils will not be suitable for use as structural fill. The contractor should be prepared to import clean granular material for use as structural fill and backfill.

The following sections provide detailed recommendations regarding the above issues and other geotechnical design considerations. These recommendations should be incorporated into the final design drawings and construction specifications.

#### 4.2 Site Preparation and Grading

In general, it will not be necessary to strip the organic surface layer where structural fill thicknesses above existing grade are a minimum of three feet and two feet in building and pavement areas, respectively. Clearing of trees should include removal of the entire tree root ball. Where structural fill thicknesses are less than the recommended minimums, both the organic surface soil and vegetation should be stripped from below building and pavement areas. Based on our field observations, surface stripping depths of about two to four inches should be expected. Stripped vegetation debris should be removed from the site. Organic topsoil will not be suitable for use as structural fill, but may be used for limited thicknesses in nonstructural areas.

Once clearing and grubbing operations are complete, grading to establish the desired building grade can be initiated. In order to achieve proper compaction of the building fill, the existing subgrade should be in a relatively stable condition. If excessively soft and yielding subgrade is observed and it cannot be stabilized in place by aeration and compaction, the unstable soils should be excavated to a depth of 18 inches and replaced with clean granular structural fill.

As noted, we recommend that spread footing foundations obtain support on a minimum of three feet of compacted granular structural fill. The structural fill should extend laterally from the edge of the footing a minimum distance of 18 inches. If grading occurs during wet weather, the structural fill used for this purpose should consist of wet-weather structural fill or equivalent granular material as outlined later in this section.

If grading activities are planned during the wet winter months and the onsite soils become too wet to achieve adequate compaction, the contractor should be prepared to treat soils with cement or lime, or import wet-weather structural fill. If an additive is used, additional Best Management Practices (BMPs) for its use will need to be incorporated into the Temporary Erosion and Sedimentation Control plan (TESC) for the project. For wet weather structural fill, we recommend importing a granular soil that meets the following grading requirements:

U.S. Sieve Size	Percent Passing
6 inches	100
No. 4	75 maximum
No. 200	5 maximum*

<sup>\*</sup>Based on the 3/4-inch fraction.

Prior to use, Terra Associates, Inc. should examine and test all materials imported to the site for use as structural fill. If the building subgrade is constructed using native soils and will be exposed during wet weather, it would be advisable to place 12 inches of this granular structural fill on the building pad to prevent deterioration of the floor subgrade.

Structural fill should be placed in uniform loose layers not exceeding 12 inches and compacted to a minimum of 95 percent of the soil's maximum dry density, as determined by American Society for Testing and Materials (ASTM) Test Designation D-698 (Standard Proctor). The moisture content of the soil at the time of compaction should be within two percent of its optimum, as determined by this ASTM standard. In nonstructural areas, or for backfill in utility trenches below a depth of 4 feet, the degree of compaction can be reduced to 90 percent.

#### 4.3 Surcharge

As discussed, we recommend surcharging the building pad and paved parking and driveway areas and allowing settlements to occur under these loads prior to construction. For this procedure, we recommend placing structural fill in the building areas to the design finish floor elevation, then placing an additional 4-foot surcharge fill above finished floor elevation. Paved parking and driveway areas should be surcharged with a minimum 12-inch fill placed above the finished elevation. The top of the surcharge fill in building areas should extend a minimum of five feet beyond the edge of the building.

Total settlement under the pavement surcharge fill is estimated to be in the range of four to six inches. Total settlement under the building surcharge is estimated at 10 to 14 inches. It is estimated that 90 percent of the consolidation settlement will occur in about 3 to 4 months following full application of the building fill.

To verify the amount of settlement and the time rate of movement, the preload program should be monitored by installing settlement markers. A typical settlement marker detail is shown on Figure 3. The settlement markers should be installed on the existing grade prior to placing any building or surcharge fills. Once installed, elevations of both the fill height and marker should be taken twice a week until the full height of the surcharge is in place. Once fully surcharged, readings should continue weekly until the anticipated settlements have occurred or monitoring indicates settlements have stopped. Monitoring data should be forwarded to us for review when obtained.

It is critical that the grading contractor recognize the importance of the settlement marker installations. All efforts must be made to protect the markers from damage during fill placement. It is difficult, if not impossible, to evaluate the progress of the preload program if the markers are damaged or destroyed by construction equipment. If the markers are impacted, it may be necessary to install new markers and extend the surcharging time period in order to ensure that settlements have ceased and building construction can begin.

#### 4.4 Excavations

All excavations at the site associated with confined spaces must be completed in accordance with local, state, and federal requirements. Based on regulations outlined by the Occupational Safety and Health Administration (OSHA), all existing fill materials and native soils would typically be classified as Type C soils.

For properly dewatered excavations deeper than 4 feet, but less than 20 feet, the side slopes should be laid back at a minimum slope inclination of 2:1 (Horizontal:Vertical). If there is insufficient room to complete the excavations in this manner, or if excavations greater than 20 feet in depth are planned, temporary shoring to support the excavations will be required. Properly designed and installed shoring trench boxes can be used to support utility trench excavations where required.

Based on our study, excavations extending below a depth of about two feet will encounter the groundwater table. Excavations extending below this depth will encounter groundwater seepage with volumes and flow rates sufficient to require some level of dewatering. Shallow excavations that do not extend more than two to three feet below the groundwater table can likely be dewatered by conventional sump-pumping procedures along with a system of collection trenches. Deeper excavations will require dewatering by well points. The utility subcontractor should be prepared to implement excavation dewatering using a well point system, as needed. This will be an especially critical consideration for any deep utility excavations.

The above information is provided solely for the benefit of the owner and other design consultants, and should not be construed to imply that Terra Associates, Inc. assumes responsibility for job site safety. It is understood that job site safety is the sole responsibility of the project contractor.

#### 4.5 Foundation Support

The proposed building may be supported on conventional spread footing foundations bearing on a minimum of 3 feet of structural fill that extends at least 12 inches laterally beyond the edges of the footing. Perimeter foundations exposed to the weather should bear at a minimum depth of 1.5 feet below final exterior grades for frost protection. Interior foundations can be constructed at any convenient depth below the floor slab.

We recommend designing foundations for a net allowable bearing capacity of 2,000 psf. For short-term loads, such as wind and seismic, a one-third increase in this allowable capacity can be used. With the expected building loads and this bearing stress applied, and following successful completion of the surcharge program, total and differential settlements should not exceed one-inch and one-half inch, respectively. The differential settlement is expected to occur between perimeter wall and interior column locations. Long-term secondary consolidation of the soft alluvium should also be expected over the life of the structures. Estimated secondary settlements approach 2 inches in a 30-year time span. This settlement will occur slowly, but could result in some level of cosmetic damage to the buildings that would require some maintenance and repair.

For designing foundations to resist lateral loads, a base friction coefficient of 0.35 can be used. Passive earth pressures acting on the sides of the footings can also be considered. We recommend calculating this lateral resistance using an equivalent fluid weight of 300 pounds per cubic foot (pcf). We do not recommend including the upper 12 inches of soil in this computation because it can be affected by weather or disturbed by future grading activity. This value assumes the foundation will be backfilled with structural fill, as described in Section 4.2 of this report. The values recommended include a safety factor of 1.5.

#### 4.6 Slab-on-Grade Floors

Slab-on-grade floors may be supported on a subgrade prepared as recommended in Section 4.2 of this report. Immediately below the floor slab, we recommend placing a four-inch thick capillary break layer composed of clean, coarse sand or fine gravel that has less than three percent passing the No. 200 sieve. This material will reduce the potential for upward capillary movement of water through the underlying soil and subsequent wetting of the floor slab.

The capillary break layer will not prevent moisture intrusion through the slab caused by water vapor transmission. Where moisture by vapor transmission is undesirable, such as covered floor areas, a common practice is to place a durable plastic membrane on the capillary break layer, then cover the membrane with a layer of clean sand or fine gravel to protect it from damage during construction and to aid in uniform curing of the concrete slab. It should be noted, if the sand or gravel layer overlying the membrane is saturated prior to pouring the slab, it will not be effective in assisting uniform curing of the slab and can actually serve as a water supply for moisture bleeding through the slab, potentially affecting floor coverings. Therefore, in our opinion, covering the membrane with a layer of sand or gravel should be avoided if floor slab construction occurs during the wet winter months and the layer cannot be effectively drained. We recommend floor designers and contractors refer to the 2003 American Concrete Institute (ACI) Manual of Concrete Practice, Part 2, 302.1R-96, for further information regarding vapor barrier installation below slab-on-grade floors.

#### 4.7 Lateral Earth Pressures for Wall Design

The magnitude of earth pressure development on retaining/below-grade walls will partly depend on the quality of the wall backfill. We recommend placing and compacting wall backfill as structural fill as described in Section 4.2 of this report. To guard against hydrostatic pressure development, wall drainage must also be installed. A typical recommended wall drainage detail is shown on Figure 4.

With wall backfill placed and compacted as recommended, and drainage properly installed, we recommend designing unrestrained walls for an active earth pressure equivalent to a fluid weighing 35 pounds per cubic foot (pcf). For restrained walls, an additional uniform load of 100 psf should be added to the 35 pcf. To account for typical traffic surcharge loading, the walls can be designed for an additional imaginary height of two feet (two-foot soil surcharge). For evaluation of wall performance under seismic loading, a uniform pressure equivalent to 8H psf, where H is the height of the below-grade portion of the wall should be applied in addition to the static lateral earth pressure. These values assume a horizontal backfill condition and that no other surcharge loading, sloping embankments, or adjacent buildings will act on the wall. If such conditions exist, then the imposed loading must be included in the wall design. Friction at the base of foundations and passive earth pressure will provide resistance to these lateral loads. Values for these parameters are provided in Section 4.5 of this report.

#### 4.8 Drainage

#### Surface

Final exterior grades should promote free and positive drainage away from the building at all times. Water must not be allowed to pond or collect adjacent to foundations or within the immediate building area. We recommend providing a positive drainage gradient away from the building perimeter. If this gradient cannot be provided, surface water should be collected at the point of accumulation and conveyed to an appropriate stormwater discharge location.

#### Subsurface

We recommend installing perimeter foundation drains adjacent to shallow foundations where paved surfaces do not extend to the building perimeter and positive drainage away from the structure is not provided. The drains can be laid to grade at an invert elevation equivalent to the bottom of footing grade. The drains can consist of four-inch diameter perforated PVC pipe enveloped in washed pea gravel-sized drainage aggregate. The aggregate should extend six inches above and to the sides of the pipe. Roof and foundation drains should be tightlined separately to the storm drains. All drains should be provided with cleanouts at easily accessible locations.

#### 4.9 Utilities

The very soft, fine-grained native soils will be unsuitable for support of buried utility pipes. The contractor should be prepared to over excavate two to four feet of native soil from below the pipe invert elevation and replace it with crushed rock or bedding aggregate placed over a geotextile separation fabric such as Mirafi 500X to establish a stable pipe foundation.

Utility pipes should be bedded and backfilled in accordance with American Public Works Association (APWA), or local jurisdictional specifications. At a minimum, trench backfill should be placed and compacted as structural fill as described in Section 4.2 of this report. In our opinion, the fine-grained native soils will not be suitable for use as utility trench backfill. Material used for utility trench backfilling should consist of an imported fill material that meets the recommended gradation for wet-weather fill given in Section 4.2.

It should be noted, the native silt alluvium has a low in-place wet unit weight and imported granular aggregates used to support the pipes and backfill the trenches unit weight will likely be 25 to 50 pounds per cubic foot heavier. This heavier bedding and backfill material can cause the utilities to settle due to consolidation of the deeper unconsolidated deposits. This will not likely be an issue for shallow utilities less than four to five feet below finish site grades, but can be an issue for deeper utilities. The potential for settlement to occur can be mitigated by using a lightweight material such as geofoam to backfill a portion of the utility trench. Typically, the geofoam would be placed just above the pipe bedding to a height equal to about two feet below final grade. We should review grading and utility plans when they become available to determine where such mitigation may be needed.

#### 4.10 Pavements

Pavement subgrades should be prepared as described in Section 4.2 of this report. Regardless of the degree of relative compaction achieved, the subgrade must be firm and relatively unyielding before paving. The subgrade should be proofrolled with heavy rubber-tired construction equipment such as a loaded 10 yard dump truck to verify this condition.

The pavement design section is dependent upon the supporting capability of the subgrade soils and the traffic conditions to which it will be subjected. We expect traffic at the facility will consist of cars and light trucks, along with heavy traffic in the form of tractor-trailer rigs. For design considerations, we have assumed traffic in parking and in car/light truck access pavement areas can be represented by an 18-kip Equivalent Single Axle Loading (ESAL) of 50,000 over a 20-year design life. For heavy traffic pavement areas, we have assumed an ESAL of 300,000 would be representative of the expected loading. This heavy traffic loading includes a tractor-trailer rig carrying generators with a total payload and vehicle weight of 105,500 lbs. As we understand, this vehicle would access the site about once a week.

With a stable subgrade composed of a minimum of 18 inches of granular structural fill prepared as recommended, we recommend the following pavement sections:

#### Light Traffic and Parking:

- Three inches of hot mix asphalt (HMA) over four inches of crushed rock base (CRB).
- Four and one-half inches full depth HMA.

#### Heavy Traffic:

- Four inches of HMA over six inches of CRB.
- Six inches full depth HMA.

The paving materials used should conform to the Washington State Department of Transportation (WSDOT) specifications for half-inch class HMA and CRB.

Long-term pavement performance will depend on surface drainage. A poorly-drained pavement section will be subject to premature failure as a result of surface water infiltrating into the subgrade soils and reducing their supporting capability. For optimum pavement performance, we recommend surface drainage gradients of at least two percent. Some degree of longitudinal and transverse cracking of the pavement surface should be expected over time. Regular maintenance should be planned to seal cracks when they occur.

#### 5.0 ADDITIONAL SERVICES

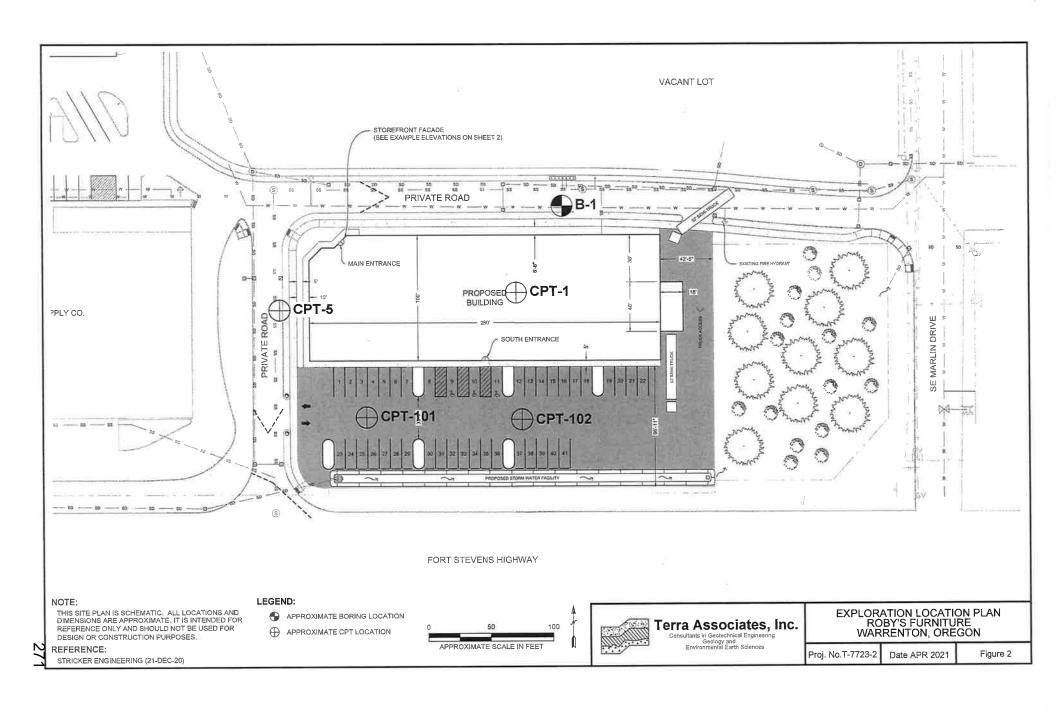
Terra Associates, Inc. should review the final design and specifications in order to verify earthwork recommendations have been properly interpreted and incorporated into project design and construction. We should also provide geotechnical services during construction in order to observe compliance with the design concepts, specifications, and recommendations. This will allow for design changes if subsurface conditions differ from those anticipated prior to the start of construction.

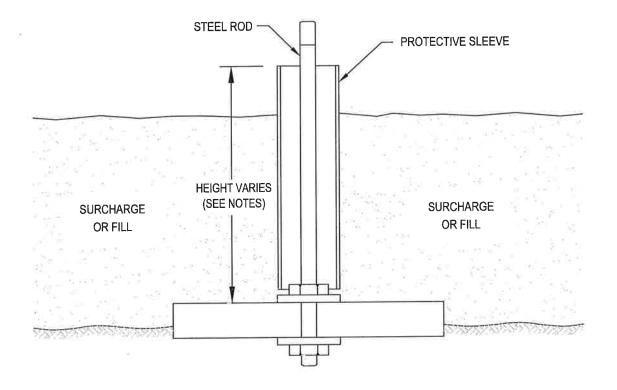
#### 6.0 LIMITATIONS

We prepared this report in accordance with generally accepted geotechnical engineering practices. This report is the property of Terra Associates, Inc. and is intended for specific application to the Roby's Furniture project in Warrenton, Oregon. This report is for the exclusive use of Warrenton Property Investment, LLC and its authorized representatives.

The analyses and recommendations presented in this report are based upon data obtained from the onsite test boring and CPT explorations. Variations in soil conditions can occur, the nature and extent of which may not become evident until construction. If variations appear evident, Terra Associates, Inc. should be requested to reevaluate the recommendations in this report prior to proceeding with construction.







#### NOT TO SCALE

#### NOTES:

- 1. BASE CONSISTS OF 3/4" THICK, 2'x2' PLYWOOD WITH CENTER DRILLED 5/8" DIAMETER HOLE.
- 2. BEDDING MATERIAL, IF REQUIRED, SHOULD CONSIST OF CLEAN COARSE SAND.
- 3. MARKER ROD IS 1/2" DIAMETER STEEL ROD THREADED AT BOTH ENDS.
- 4. MARKER ROD IS ATTACHED TO BASE BY NUT AND WASHER ON EACH SIDE OF BASE.
- 5. PROTECTIVE SLEEVE SURROUNDING MARKER ROD SHOULD CONSIST OF 2" DIAMETER PLASTIC TUBING. SLEEVE IS NOT ATTACHED TO ROD OR BASE.
- 6. ADDITIONAL SECTIONS OF STEEL ROD CAN BE CONNECTED WITH THREADED COUPLINGS.
- 7. ADDITIONAL SECTIONS OF PLASTIC PROTECTIVE SLEEVE CAN BE CONNECTED WITH PRESS-FIT PLASTIC COUPLINGS.
- 8. STEEL MARKER ROD SHOULD EXTEND AT LEAST 6" ABOVE TOP OF PLASTIC PROTECTIVE SLEEVE.
- 9. PLASTIC PROTECTIVE SLEEVE SHOULD EXTEND AT LEAST 1" ABOVE TOP OF FILL SURFACE.



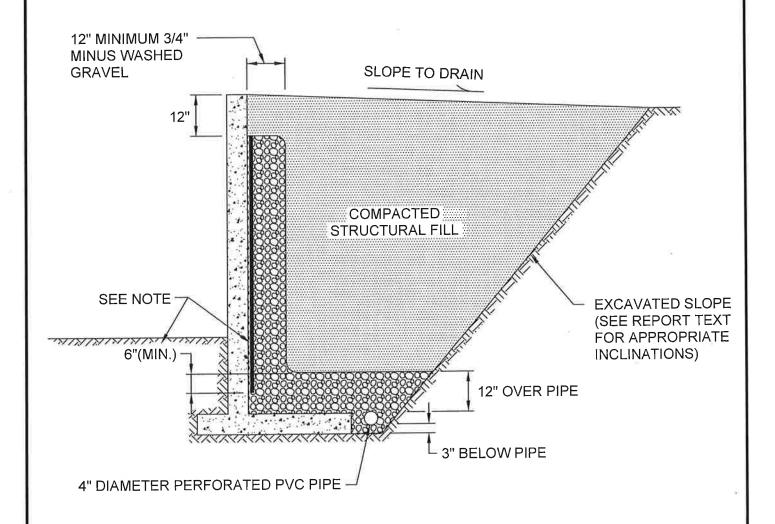
## Terra Associates, Inc.

Consultants in Geotechnical Engineering Geology and Environmental Earth Sciences SETTLEMENT MARKER DETAIL ROBY'S FURNITURE WARRENTON, OREGON

Proj. No.T-7723-2

Date APR 2021

Figure 3



## **NOT TO SCALE**

#### NOTE:

MIRADRAIN G100N PREFABRICATED DRAINAGE PANELS OR SIMILAR PRODUCT CAN BE SUBSTITUTED FOR THE 12-INCH WIDE GRAVEL DRAIN BEHIND WALL. DRAINAGE PANELS SHOULD EXTEND A MINIMUM OF SIX INCHES INTO 12-INCH THICK DRAINAGE GRAVEL LAYER OVER PERFORATED DRAIN PIPE.



erra Associates, Inc.
Consultants in Geotechnical Engineering
Geology and
Environmental Earth Sciences

TYPICAL WALL DRAINAGE DETAIL ROBY'S FURNITURE WARRENTON, OREGON

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Date APR 2021

Figure 4

#### APPENDIX A

#### FIELD EXPLORATION AND LABORATORY TESTING

# Roby's Furniture Warrenton, Oregon

Subsurface exploration at the site included drilling one approximately 70-foot deep test boring and advancing four cone penetration tests (CPTs) to maximum depths ranging from about 37 to 47 feet below ground surface. The test boring and CPT locations were approximately determined in the field by pacing and sighting from existing site features. The test boring and CPT locations are shown on Figure 2.

An engineering geologist from our office conducted the field exploration, classified the soils observed in the test boring, maintained a written log of the test boring, collected representative soil samples, and performed a visual site reconnaissance. All soil samples were visually classified in accordance with the Unified Soil Classification System (USCS) described on Figure A-1. The Boring Log is presented as Figure A-2.

Representative soil samples collected from the boring were placed in closed containers and taken to our laboratory for further examination and testing. Laboratory testing consisted of determining the soil moisture content of all samples. The moisture contents are reported on the Boring Log.

Oregon Geotechnical Explorations, under subcontract to Terra Associates, Inc., performed the CPT explorations at locations selected by Terra Associates, Inc. The CPT consists of pushing an instrumented, approximately 1.5-inch diameter cone into the ground at a constant rate. During advancement, continuous measurements are made of the resistance to penetration of the cone and the friction of the outer surface of a sleeve. The cone is also equipped with a porous filter and a pressure transducer for measuring groundwater or pore water pressure generated. Measurements of tip and sleeve frictional resistance, pore pressure, and interpreted soil conditions are summarized in graphical form on the attached CPT Logs.

-								
	MAJOR DIVISIONS LETTE SYMBO				TYPILAL DESCRIPTION			
		GRAVELS More than 50% of coarse fraction is larger than No. 4 sieve	Clean Gravels (less than 5% fines)	GW	Well-graded gravels, gravel-sand mixtures, little or no fines.			
rs	rger			GP	Poorly-graded gravels, gravel-sand mixtures, little or no fines,			
0 80	More than 50% material larger than No. 200 sieve size		Gravels with fines	GM	Silty gravels, gravel-sand-silt mixtures, non-plastic fines.			
COARSE GRAINED SOILS	, mate 10 sie\			GC	Clayey gravels, gravel-sand-clay mixtures, plastic fines.			
E GR	750% No. 20	SANDS More than 50% of coarse fraction is smaller than No. 4 sieve	Clean Sands (less than 5% fines)	sw	Well-graded sands, sands with gravel, little or no fines.			
ARS	e thar than N			SP	Poorly-graded sands, sands with gravel, little or no fines.			
Mor	Mor		Sands with fines	SM	Silty sands, sand-silt mixtures, non-plastic fines.			
				sc	Clayey sands, sand-clay mixtures, plastic fines.			
FINE GRAINED SOILS	aller			ML	Inorganic silts, rock flour, clayey silts with slight plasticity.			
	ial sm /e size	SILTS AND Liquid Limit is les		CL	Inorganic clays of low to medium plasticity. (Lean clay)			
	mater 0 siev			OL	Organic silts and organic clays of low plasticity.			
RAIN	50% Jo. 20	SILTS AND Liquid Limit is grea		МН	Inorganic silts, elastic.			
FINE GRAINED SOILS  More than 50% material smaller	e than 50% material sma than No. 200 sieve size			СН	Inorganic clays of high plasticity. (Fat clay)			
	More			ОН	Organic clays of high plasticity.			
		HIGHLY OR	GANIC SOILS	PT	Peat.			
	DEFINITION OF TERMS AND SYMBOLS							
ONLESS	<u>Den</u>	Standard Pener			2" OUTSIDE DIAMETER SPILT SPOON SAMPLER			
NO	Very	/ Loose	0-4		2.4" INSIDE DIAMETER RING SAMPLER OR SHELBY TUBE SAMPLER			

COHESIONLESS	Density  Very Loose Loose Medium Dense Dense Very Dense	Standard Penetration Resistance in Blows/Foot  0-4 4-10 10-30 30-50 >50	I I Tr	2.4" INSID SHELBY 1 WATER L	DE DIAMETER SPILT DE DIAMETER RING S TUBE SAMPLER EVEL (Date) E READINGS, tsf		
COHESIVE	Consistancy Very Soft Soft Medium Stiff Stiff Very Stiff Hard	0-2 2-4		PENETROMETER READING, tsf  DRY DENSITY, pounds per cubic foot  LIQUID LIMIT, percent  PLASTIC INDEX  STANDARD PENETRATION, blows per foot			
Terra  Associates, Inc.  Consultants in Geotechnical Engineering Geology and Environmental Earth Sciences			UNIFIED SOIL CLASSIFICATION SYSTEM ROBY'S FURNITURE WARRENTON, OREGON  Proj. No.T-7723-2 Date APR 2021 Figure A-1				

Project No: T-7723 Date Drilled: September 18, 2017 Project: Trondheim Acres

Driller: Holocene Drilling Logged By: JCS Client: Warrenton Fiber Company

Location: Warrenton, Oregon Depth to Groundwater: ~ 2.5 ft Approx. Elev: NA

						-		
Depth (ft)	Sample Interval	Soil Description	Consistency/ Relative Density	SPT (N) Blows/foot				Moisture Content (%)
5-	1 - 1	Approx. 2 feet of fine sand fill.  Gray to gray-brown slightly clayey SILT, wet, scattered to numerous organics. (ML)  No Recovery 7.5' - 9.5'	Very Soft				2 1 Push Push	70.9 134.0
10 -		Gray to gray-brown SILT to slightly sandy SILT, fine sand, wet. (ML)  - Trace of fine sand seams below 15 feet.					0	110.1 63.3
20 –	I	Gray SAND, fine grained, wet, trace of fine organics. (SP)	Medium Dense				11	33.2
25 –	I	Gray-brown slightly clayey SILT, wet, numerous fibrous organics. (ML)		•			0	108.0
30 -	I	Gray-brown SILT to sandy SILT, fine sand, wet, scattered fine sand seams below 30 feet, trace of organics. (ML)	Very Soft	•			2	53.0 51.2
35 – 40 –	I	Dark gray sandy SILT, fine sand, wet, trace of shell fragments. (ML)					1	27.3
45 -	I			•			3	154.8
50 -	I	Dark brown PEAT, moist to wet. (PT)  Dark gray sandy SILT, fine sand, wet, trace of organics. (ML)	Soft	•			4	78.9
55 -	I	Dark brown PEAT, moist to wet. (PT)	Medium Stiff	]•			7	149.5
60 -		Gray silty SAND to SAND with silt, fine grained, wet, trace of fine organics below 60 feet. (SM/SP-SM)	Loose	•			5	42.0
65 -	I	- Drills harder below about 62 feet.  Gray elastic SILT, moist. (MH) (Smuggler Cove formation [informal]) LL=63, PI=28	Hard				50/5"	20.6
75		Boring terminated at 70.8 feet. Groundwater encountered between about 2.5 feet and 62 feet.						
80								

NOTE: This borehole log has been prepared for geotechnical purposes. This information pertains only to this boring location and should not be interpeted as being indicative of other areas of the site



**Terra** 

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Geology and
Environmental Earth Sciences
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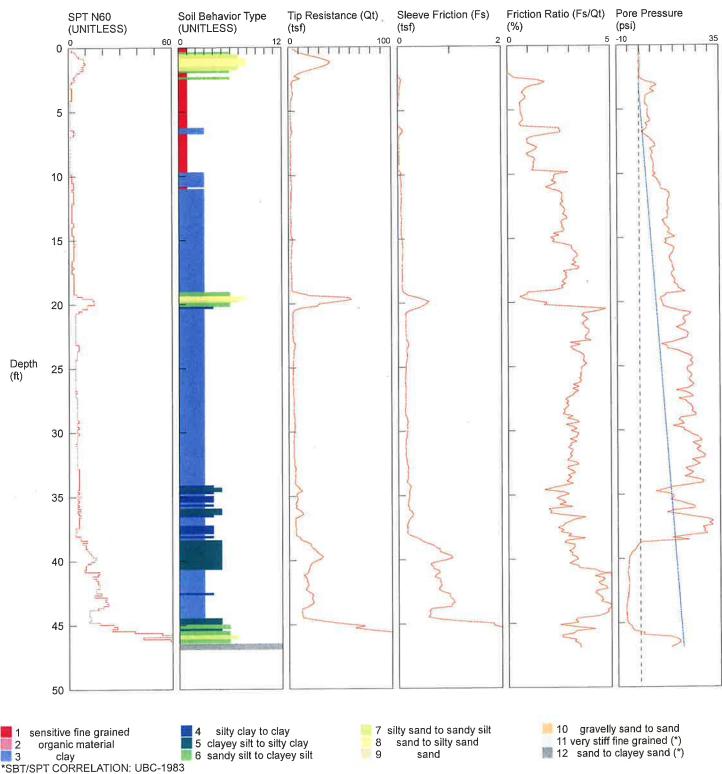
## **CPT LOGS**

## Terra Assoc. / CPT-1 / Trondheim Acres Warrenton

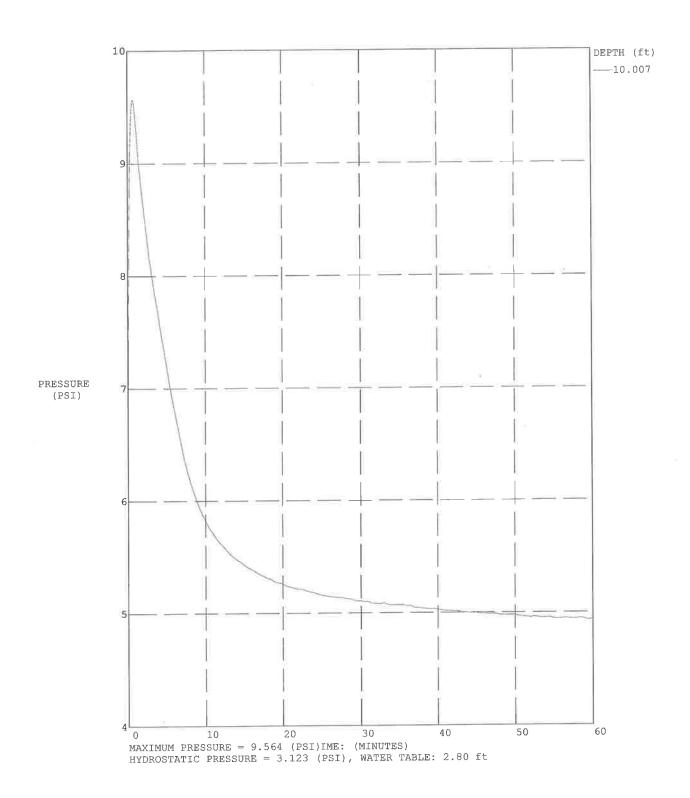
OPERATOR: OGE BB CONE ID: DDG1415 HOLE NUMBER: CPT-1

TEST DATE: 9/13/2017 3:28:38 PM

TOTAL DEPTH: 46.916 ft



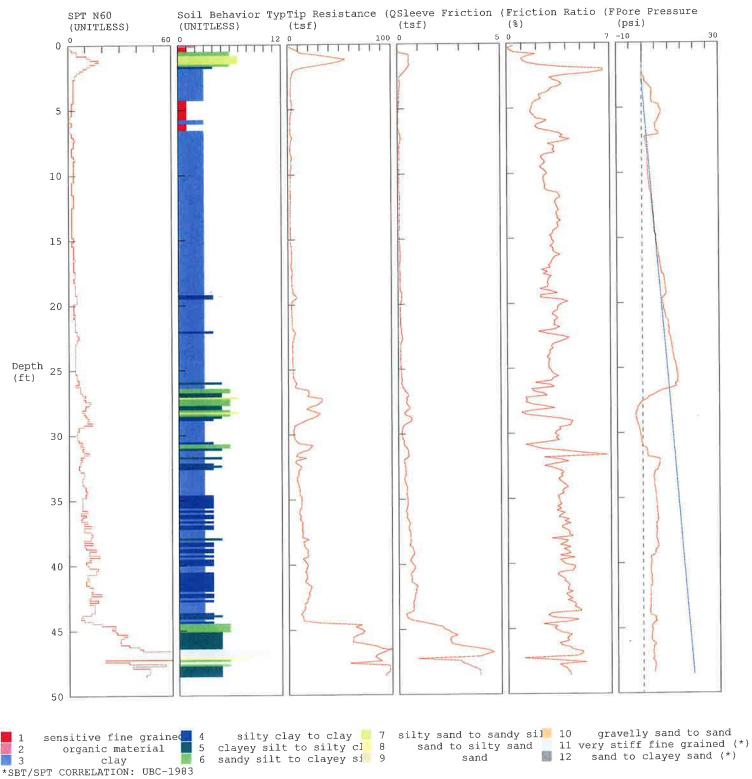
T DATE: 9/13/2017 3:28:38 PM



## Terra Assoc. / CPT-5 / Trondheim Acres Warrenton

OPERATOR: OGE BB CONE ID: DDG1415 HOLE NUMBER: CPT-5

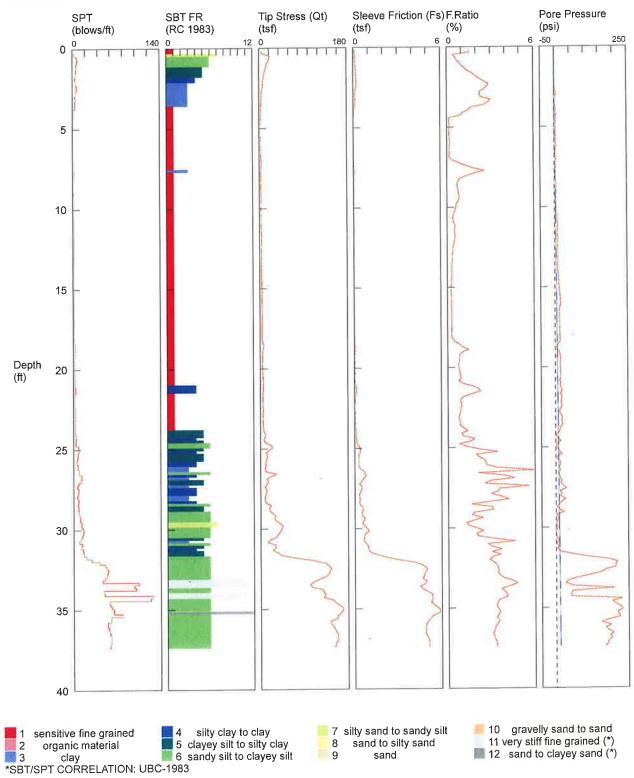
TEST DATE: 9/13/2017 2:32:50 PM TOTAL DEPTH: 48.556 ft



## Terra Associates / CPT-101 / 1168 SE Marlin Ave Warrenton

OPERATOR: OGE DMM CONE ID: DPG1211 HOLE NUMBER: CPT-101

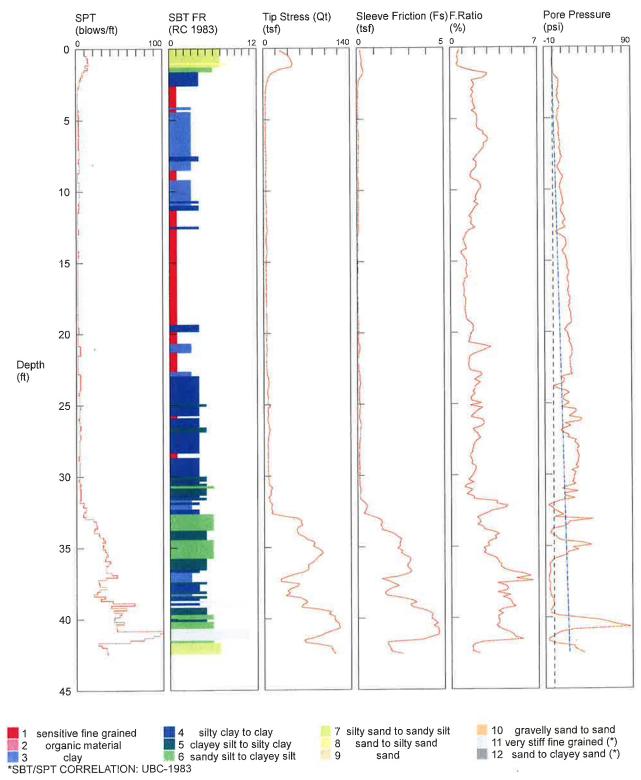
TEST DATE: 2/19/2021 12:00:36 PM TOTAL DEPTH: 37.402 ft

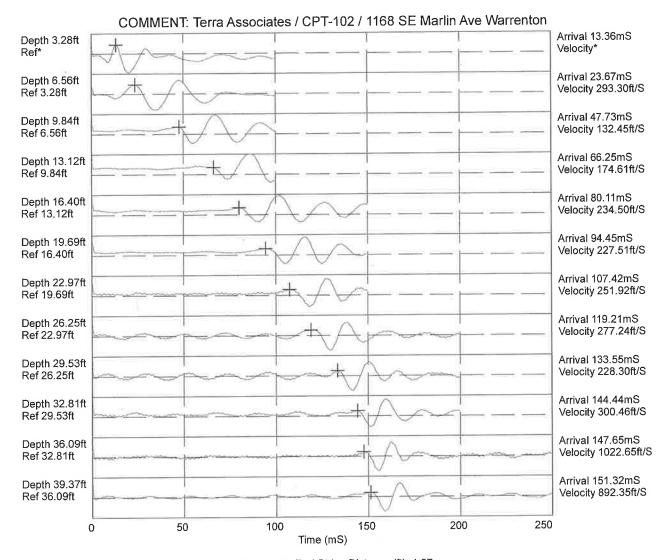


## Terra Associates / CPT-102 / 1168 SE Marlin Ave Warrenton

OPERATOR: OGE DMM CONE ID: DPG1211 HOLE NUMBER: CPT-102 TEST DATE: 2/19/2021 10:16:56 AM

TOTAL DEPTH: 42.487 ft

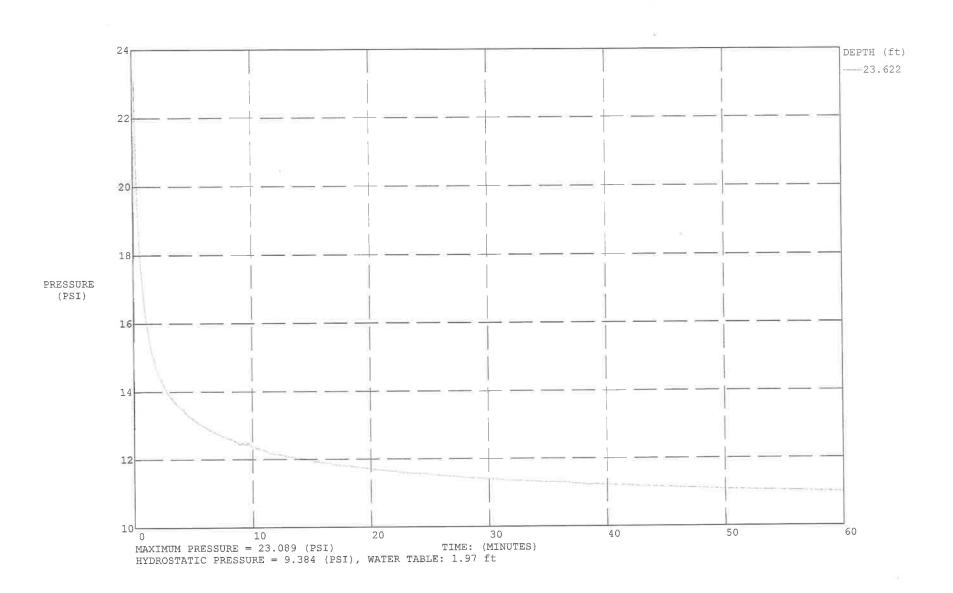




Hammer to Rod String Distance (ft): 1.97
\* = Not Determined

COMMENT: Terra Associates / CPT-102 / 1168 SE Marlin Ave Warrenton

ST DATE: 2/19/2021 10:16:56 AM



## APPENDIX B

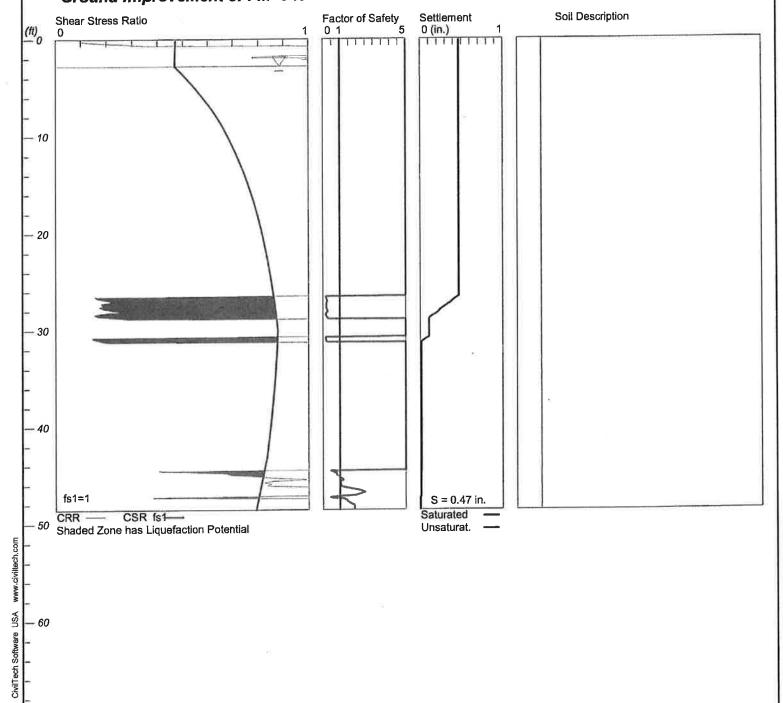
## LIQUEFACTION ANALYSIS

# LIQUEFACTION ANALYSIS

## **Roby's Furniture**



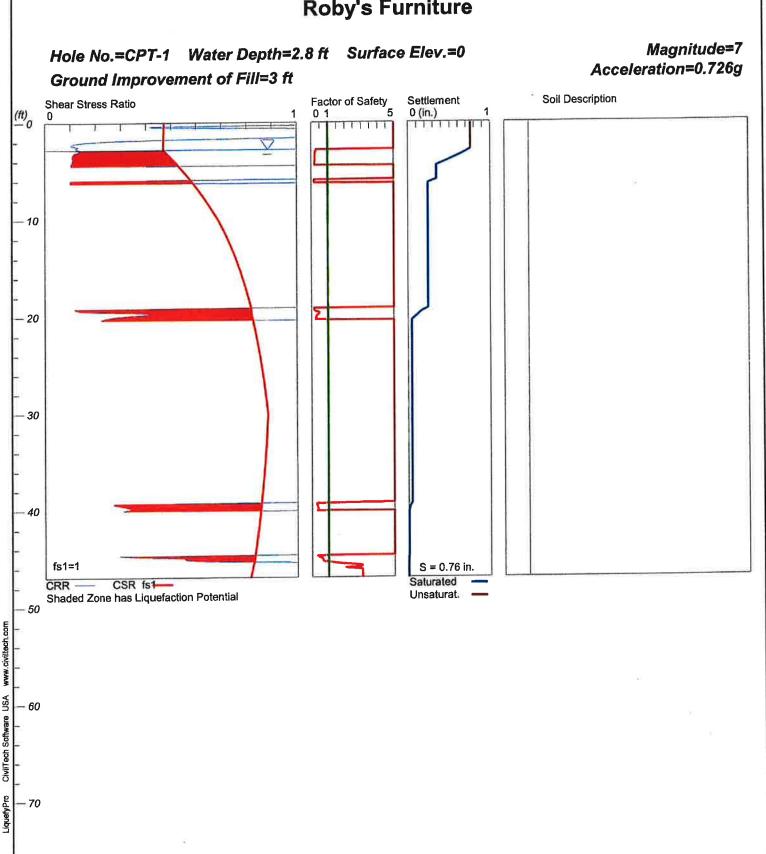
Magnitude=7
Acceleration=0.726g



- 70

# LIQUEFACTION ANALYSIS

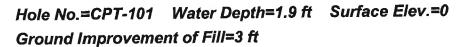
## **Roby's Furniture**



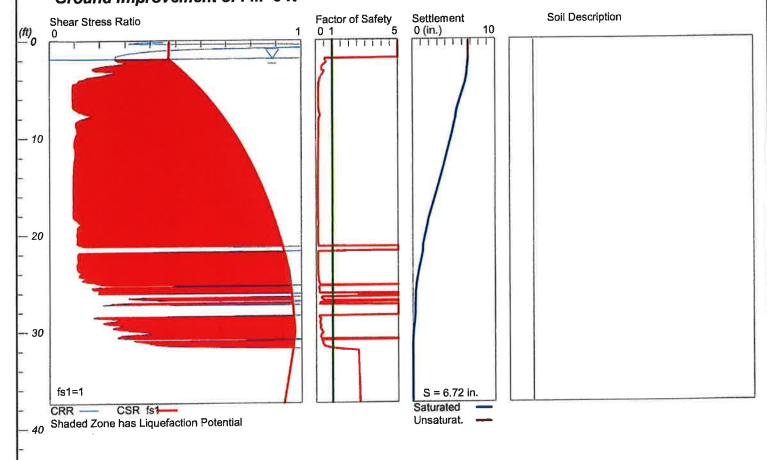
www.civillech.com

# LIQUEFACTION ANALYSIS

## **Roby's Furniture**



Magnitude=7
Acceleration=0.726g



- 50

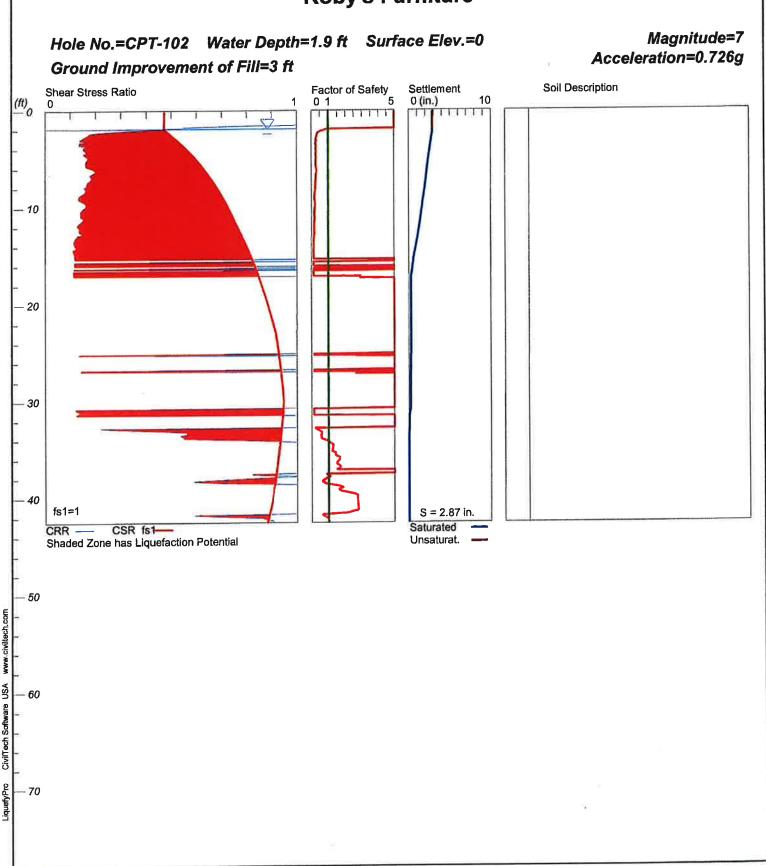
- 60

- 70

CivilTech Software USA

# LIQUEFACTION ANALYSIS

# **Roby's Furniture**



# APPENDIX C

# SITE-SPECIFIC SEISMIC DESIGN REPORT

# **Site-Specific Seismic Design Parameters**

Roby's Furniture Oregon Coast Highway 101 and SE Marlin Avenue, Warrenton, Oregon.

**A Report Prepared for** 

# Terra Associates, Inc.



Project No. T-7723-2

Ву

**AS Consulting Engineering Services LLC** 



**APRIL 09, 2020** 

# AS Consulting Engineering Services, LLC



April 09, 2021

Mr. Ted Schepper, PE President Terra Associates 12220 113<sup>th</sup> Avenue NE, Suite 130 Kirkland, Washington 98034

Subject: Site Specific Design Response Spectrum Roby's Furniture Oregon Coast Highway 101 and SE Marlin Avenue Portland, Oregon

Dear Mr. Schepper,

Per your request I conducted site specific seismic hazard analysis for the site and developed a design response spectrum. The attached report summarizes the analysis and findings.

The site subject this study is characterized by layers of about 30 feet of very soft silt, fine sandy silt, and clayey to clayey silt overlying very stiff to hard elastic silt interpreted to be the Smuggler Cove formation. The site is classified E according to ASCE/SEI 7-16.

The probabilistic site-specific seismic hazard analysis included all potential seismic sources and used state-of-practice ground motion prediction equations. The design response spectrum was evaluated following Chapter 21 of ASCE/SEI 7-16.

I trust the information presented in the report will meet your satisfaction. Please don't hesitate to call me if you have any questions.

Sincerely,

Ayman Shama, PE, PhD Principal AYMAN
SHAMA
C 83008
CIVIL

STATE OF CALIFORNIA

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# 1. Introduction

This report summarizes the steps involved in developing the design response spectrum for the Roby's Furniture site located between Oregon Coast Highway 101 and SE Marlin Avenue, Warrenton, Oregon. We followed Section 1613 of the 2018 International Building Code (IBC) "Earthquake Loads", which defines the site-specific seismic ground motion values. IBC refers to the procedures of Chapter 11 of ASCE Standard "Minimum Design Loads and Associated Criteria for Buildings and Other Structures" (ASCE/SEI 7-16).

The site subject of this study is characterized by layers of about 30 feet of very soft silt, fine sandy silt, and clayey to clayey silt overlying very stiff to hard elastic silt interpreted to be the Smuggler Cove formation. Based on the site soil conditions, it is characterized according to Chapter 20 of ASCE/SEI 7-16 as site class E.

The mapped risk-targeted maximum considered earthquake (MCE<sub>R</sub>) acceleration parameters at short and long periods for the site ( $S_S$  and  $S_1$ ) were determined according to Chapter 22 of ASCE/SEI 7-16 as 1.314 and 0.686 respectively. Section 11.4.8 of ASCE/SEI 7-16 requires the design spectrum, for structures on Site Class E with  $S_S$  greater than or equal to 1.0 and  $S_1$  greater than or equal to 0.2, to be evaluated using a site-specific probabilistic ground motion hazard analysis for site class E. This analysis is conducted directly using attenuation relationships for a site of average shear wave velocity (Vs30) less than 600 ft/s. The design response spectrum was established following this method and the steps involved in this process are summarized in the following sections.

# 2. Risk Targeted MCE<sub>R</sub> Ground Motion Hazard Analysis

ASCE/SEI 7-16 requires evaluation of the site-specific MCE<sub>R</sub> response spectrum by a probabilistic approach and deterministic approach. The spectral response acceleration at any period ( $S_{\text{aM}}$ ) shall be taken as the lesser of the two methods. site-specific MCE<sub>R</sub> response spectrum is evaluated and compared using the two approaches in the following sub-sections.

# 2.1 Probabilistic MCE<sub>R</sub> Ground Motion Hazard Analysis

Following Chapter 11 of ASCE/SEI 7-16 Standards, the first step in developing the design response spectrum of a site is to determine the mapped MCE<sub>R</sub> short period spectral acceleration  $S_S$  and the mapped MCE<sub>R</sub> 1 s period spectral acceleration  $S_1$ . Chapter 22 maps were accessed electronically and revealed values of 1.314 for  $S_S$  and 0.686 for  $S_1$ . The MCE<sub>R</sub>, 5% damped, spectral response acceleration parameter at short and long periods  $SM_S$  and  $SM_1$  adjusted for site class E effects are usually obtained in terms of  $S_S$ ,  $S_1$ , and their site coefficients  $F_a$  and  $F_v$  as indicated in Section 11.4.4 of the Guidelines. Section 11.4.8 requires that a ground motion hazard analysis

shall be performed in accordance with Section 21.2 if the site is characterized Class E with  $S_S$  greater than or equal to 1.0 and  $S_1$  greater than or equal to 0.2, which is valid for the site subject of this study. Chapter 21 of ASCE/SEI 7-16 requires that the site-specific seismic hazard analysis accounts for the regional tectonic setting, geology, and seismicity; the maximum magnitudes of earthquakes on the seismic sources; and the effects of subsurface site conditions on ground motions.

The main elements of a PSHA are shown in Figure 1 (Earthquake Engineering Research Institute, 1989). The seismic source characterization (SSC) model and the ground motion characterization (GMC) model establish the input to the PSHA. The SSC model describes the earthquake source seismicity and geometry while the GMC model defines the ground-motion scaling as a function of the earthquake source parameters, propagation parameters, and local site conditions. The main output of a PSHA are a set of seismic hazard curves for the ground motion parameters of interest from which uniform hazard spectra (UHS) can be developed. Deaggregation of the seismic hazard is used to define controlling events.

#### 2.1.1 Seismic Source Characterization

Earthquakes may occur due to different seismic sources. Plate tectonics is a major seismic source for the State of Oregon. The basic hypothesis of plate tectonics is that the earth's surface consists of a number of plates, which move with respect to each other. Subduction zone boundaries exist where the relative movement of two plates is toward each other. The Cascadia Subduction Zone off the coast of Oregon, Washington and British Columbia is concerning to the site subject of this study. Shallow faults are also major seismic sources, where crustal earthquakes within the North American plate are probable on faults indicated as active or potentially active. An active fault poses a current earthquake threat and an inactive fault is a one on which past earthquake activity is unlikely to be repeated. According to United States Geological Survey (USGS), faults are commonly considered to be active if they have moved at least one time in the last 10,000 years. The location of the site with respect to Cascadia Subduction Zone is illustrated in Figure (2). The seismic sources considered in the analysis are displayed in Figure (3) and outlined in the following subsections.

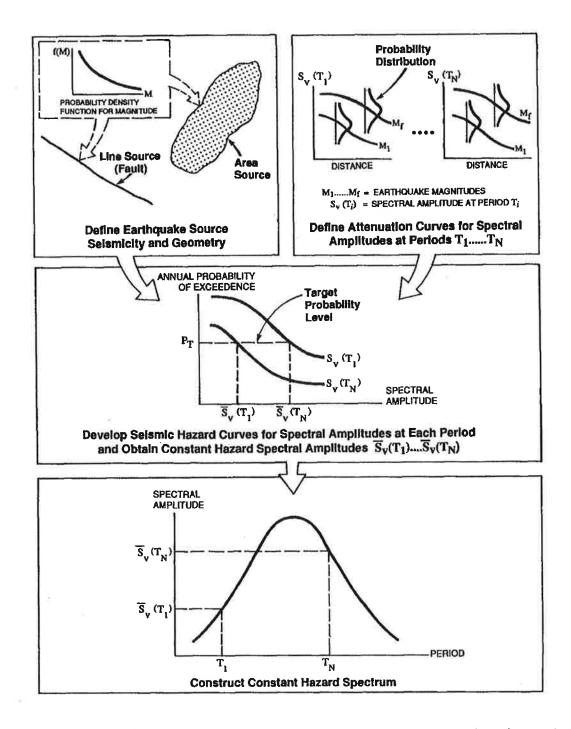


Figure (1) Elements of Probabilistic Seismic Hazard Analysis-Source Earthquake Engineering Research Institute-1989



Figure (2) General view of the site with respect to Cascadia Subduction Zone

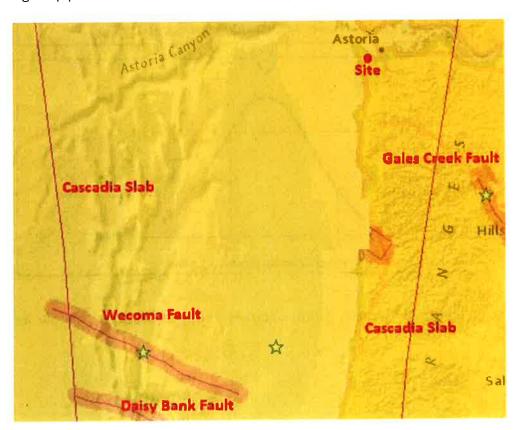


Figure (3) Potential Seismic Sources for the Site

## 2.1.2 The Cascadia Subduction Zone (CSZ)

The CSZ is a "megathrust" 1,000 km long dipping plate boundary that stretches the north west of US and is about 70-180 km off the Pacific coast shoreline. The zone varies in width beginning near Cape Mendocino Northern California, passing through Oregon and Washington, and terminating at about Vancouver Island in British Columbia. The CSZ separates the Explorer, the Juan de Fuca, and Gorda plates from the North America plate as illustrated in Figure (4 A). The three plates move toward the North American plate, and eventually are pushed underneath it. The CSZ is locked by friction and strain slowly builds up as the subduction forces act, until the fault's frictional strength is exceeded, and the rocks slip past each other along the fault in a "megathrust" earthquake.

There are two potential rupture scenarios that may occur along a subduction zone according to the part of the subduction zone where the rupture occurs. Therefore, subduction zones can generate interface earthquake ruptures at the contact of the two plates and intra-slab ruptures within the slab as illustrated in Figure (4 B). These two rupture scenarios are considered independently in the current PSHA. The "interface" earthquakes on the Cascadia Subduction Zone may have magnitudes of up to 9.0 or perhaps 9.2, with probable recurrence intervals of 500 to 800 years. These earthquakes occur about 20 to 60 kilometers (12 to 40 miles) offshore from the Pacific Ocean coastline. The "intraplate" earthquakes occur within the subducting oceanic plate. These earthquakes may have magnitudes up to about 7.5, with probable recurrence intervals of about 500 to 1000 years. These earthquakes occur quite deep in the earth, about 30 or 40 kilometers (18 to 25 miles) below the surface with epicenters that would likely range from near the Pacific Ocean coast to about 50 kilometers (30 miles) inland.

There have been 41 earthquakes in the last 10,000 years within the CSZ that have occurred as few as 190 years or as much as 1200 years apart. The last earthquake that occurred was on January 26, 1700, with an estimated magnitude  $M_L 9$ . The CSZ may be unique among the world's subduction zones in that it did not produce any large earthquake since 1700 on the plate interface. Therefore, the CSZ must be much more strongly locked than other subduction zones, which may bring a conclusion that the entire CSZ may rupture in another great  $M_W 9$  earthquake, or perhaps smaller  $M_W 8$  or  $M_W 8.5$ -sized events also can break parts of the zone in between the full rupture events.

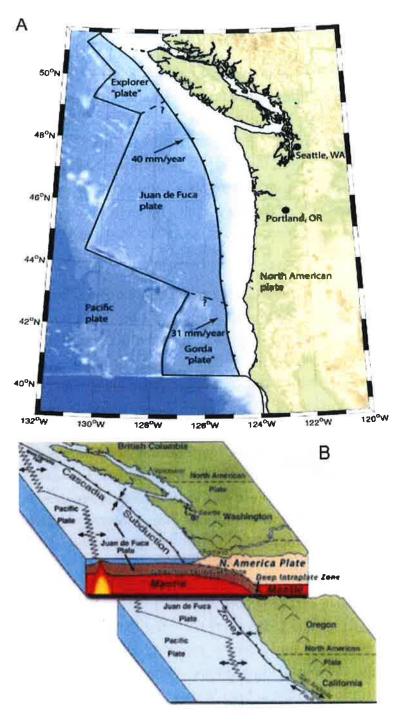


Figure (4) CSZ- Rupture Scenarios

A recent study (Bartlow, 2020) revealed that the that the Juan de Fuca and North American plates are moving toward each other at 40 millimeters per year in the northern part of the subduction zone near Seattle, and 31 millimeters per year in the southern part near Cape Mendocino, CA.

#### 2.1.3 Shallow Faults

The faults included in the present study are all included in the 2014 version catalog of the USGS national seismic hazard maps.

#### The Daisy Bank fault

The Daisy Bank fault zone cuts the sediments and basaltic basement of the subducting Juan de Fuca plate, and the overriding North American plate, extending from the abyssal plain to the upper slope-outer shelf region. According to USGS, The Daisy Bank fault is a near-vertical left -lateral strike slip fault. the fault is about 93 km and the slip rate is estimated in the range of 3 to 5 mm/yr. Figure (5) illustrates contours of earthquake intensities with respect to epicenter of a potential earthquake on the Daisy Bank fault. It is shown that a Modified Mercalli Intensity (MMI) of about 4.5, i.e., moderate shaking, is expected at the site due to Daisy Bank excitation.

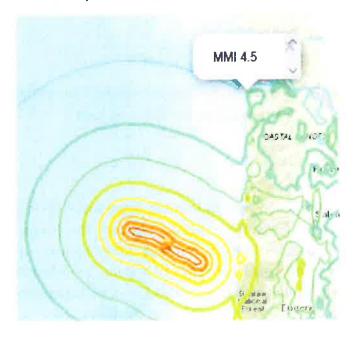


Figure (5) Contours of earthquake intensities with respect to epicenter of a potential earthquake on the Daisy Bank fault

#### The Wecoma fault

The northwest-striking, left-lateral Wecoma fault offsets accretionary wedge sediments that underlie the continental shelf and slope in the forearc of the Cascadia subduction zone. The fault extends across the active deformation front of the subduction zone, offsetting the overlying sedimentary section and the underlying oceanic basalts of the subducting Juan de Fuca Plate.

According to USGS, the fault is left lateral strike slip of about 96 km. The slip rate is 5 mm/yr. Figure (6) illustrates contours of earthquake intensities with respect to epicenter of a potential earthquake on the Wecoma fault. It is shown that a Modified Mercalli Intensity (MMI) of about 4.5, i.e., moderate shaking, is expected at the site due to Wecoma excitation.

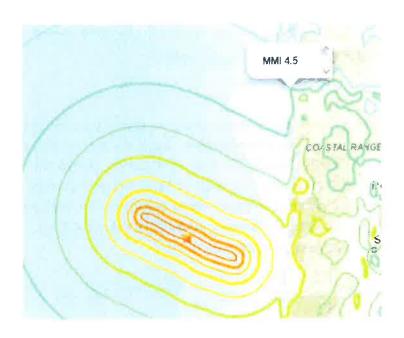


Figure (6) Contours of earthquake intensities with respect to epicenter of a potential earthquake on the Wecoma fault

#### The Gales Creek Fault

The Gales Creek fault zone is named after its location in the valley of Gales Creek west of Forest Grove in northwestern, and it forms the boundary between the Oregon Coast Range and the Willamette Valley in northwestern Oregon. The fault zone has been active at least since the Miocene, when it controlled the emplacement of Miocene Columbia River Basalt Group lava flows. The fault has an estimated length of about 73 km and is categorized as right lateral strike slip. USGS assigned slip rates of 0.005–0.02 mm/ yr to the Gales Creek fault. Figure (7) illustrates contours of earthquake intensities with respect to epicenter of a potential earthquake on the Gales Creek fault. It is shown that a Modified Mercalli Intensity (MMI) of about 5, i.e., moderate shaking, is expected at the site due to Gales Creek excitation.

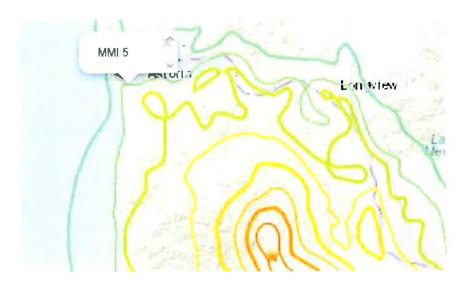


Figure (7) Contours of earthquake intensities with respect to epicenter of a potential earthquake on the Gales Creek fault

## 2.1.4 Gridded Seismicity

Gridded seismic sources are used to model the variable seismicity background sources. This source is used to represent seismicity that is not associated with known faults. These sources are modeled by a set of points located on an evenly spaced grid. Typically, the grid spacing is 0.1 degrees of latitude and longitude intervals. The hypocenter of each event is presumed to be located at the grid point. The rupture profile is presumed to be vertical.

# 2.1.5 Ground Motion Characterization

Four equally-weighted Next Generation Attenuation for Western US (NGA-West2) ground motion predictive equations (GMPE) were used to estimate the Peak ground accelerations as well as the spectral accelerations corresponding to periods of interest to represent the seismicity at the shallow faults and the Gridded Sources for the purpose of the PSHA study. These GMPEs are Abrahamson et al. (2014), Boore et al. (2014), Campbell and Bozorgnia (2014), and Chiou and Youngs (2014). The Cascadia Subduction Seismic Source used the following GMPEs: Atkinson and Boore (2003), Youngs (1997), and the predictive equation developed by BC Hydro, the major dam owner in British Columbia, Canada (BC Hydro 2012). These three GMPEs are applicable to subduction zone boundaries but are not updated as part of NGA-West2 project, which was limited to shallow crustal seismic sources. A V<sub>s30</sub> of 150 m/s (site class E) was used in conjunction with all the GMPEs. A summary of all the seismic sources with basic assumptions is presented in Table (1).

Table (1) Seismic Source Summary

Seismic Source	Region	Closest Distance	Deterministic Magnitude	Fault Mechanism	Dip Angle	Dips To	Site Lies
Cascadia Interface Composite - Full Rupture	USGS 2014 Cascadia	27.69	9.34	Interface	13-Jul	E,SE	Above
Cascadia Interface Composite - Partial Rupture	USGS 2014 Cascadia	27.69	9.34	Interface	13-Jul	E,SE	Above
Deep - Pacific NW Gridded	USGS 2014 WUS Gridded Source	0	8	Intraslab	90		Above
Shallow - Nonextensional Gridded	USGS 2014 WUS Gridded Source	0	8	SSIR	90		Above
Daisy Bank fault [798]	USGS 2014 Oregon	178.86	7.3	Strike Slip	90		NE
Gales Creek fault zone [OR1]	USGS 2014 Oregon	68.53	6.75	Strike Slip	90	22	NW
Wecoma fault [799]	USGS 2014 Oregon	152.48	7.34	Strike Slip	90		NE

#### 2.1.6 PSHA and Results

The PSHA was performed for the full range of spectral periods up to 5 sec (peak ground acceleration PGA, 0.1, 0.2, 0.3, 0.5, 0.75, 1.0, 2.0, 3.0, 4.0, and 5.0 sec) for the horizontal component of motion. Figures 8 through 17 illustrate contribution of different seismic sources to the hazard for PGA and spectral accelerations corresponding to T=0.1 s through t=5.0 s. It is observed that gridded seismicity dominates the hazard up to 0.1g for all periods with major contribution from the CSZ slab rupture model (modeled in this study as deep gridded zone). The contribution of interface rupture sources at CSZ contribute substantially to the hazard at high spectral accelerations. As periods increase, the CSZ interface rupture sources dominate. In general, the contribution from shallow faults to the total hazard is minimal.

To illustrate the contributions of events in various magnitude and distance intervals, Figure (18) displays de-aggregation plots of the hazard by magnitude, distance, for PGA at 0.5 g. It is observed that earthquakes of magnitudes 8.76 at relatively short distances of 35.62 km, in average, dominate the hazard. These events are mostly due to slab rupture at the Cascadia subduction zone or due to gridded seismicity.

De-aggregation of the total hazard for 0.2 s spectral acceleration at 0.5 g, as illustrated in Figure (19), presents the same results. It can be observed that earthquakes of magnitudes 8.20 at relatively short distances of 52.42 km in average dominate the hazard. These events are due to gridded seismicity and Cascadia Subduction zone slab rupture.

The observation that the CSZ interface rupture sources are dominating the hazard at high periods is corroborated by observing the results of de-aggregating the total hazard for 3s spectral acceleration at 0.5 g, which is illustrated in Figure (20). It is observed that earthquakes of magnitudes 8 and higher at distances of 31 km, in average, dominate the hazard.

De-aggregation plots of the hazard by  $\epsilon$  at 0.5 g for PGA, 0.2s spectral acceleration and 3s spectral acceleration are displayed in Figures 21 through 23.  $\epsilon$  is a variable that expresses the fluctuation of the dominant ground motion from the median value. It can be observed from the plots that  $\epsilon$  is in the range 0f -1.5 to 1.5 indicating that the dominant ground motions are within 1 standard deviation ( $\sigma$ ) of the median.

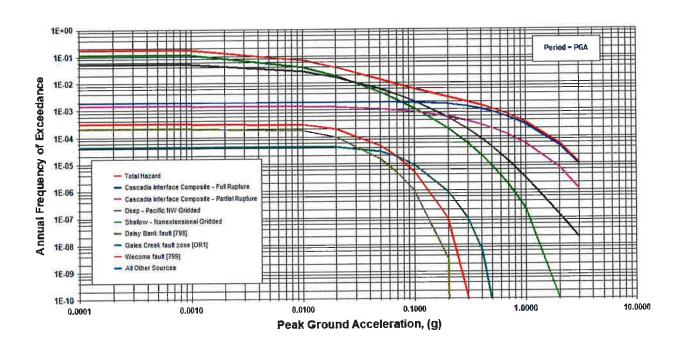


Figure (8) Hazard Contribution from Individual Seismic Sources at PGA

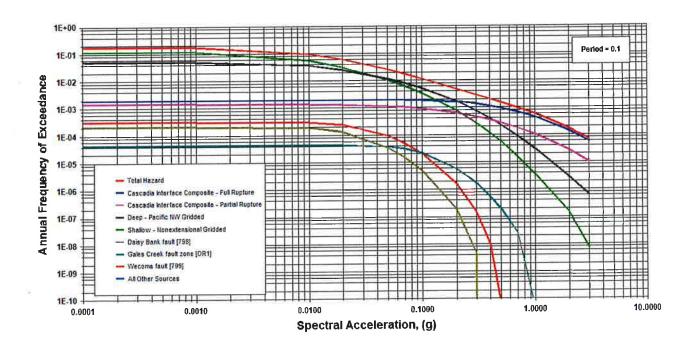


Figure (9) Hazard Contribution from Individual Seismic Sources for 0.1 s Spectral acceleration

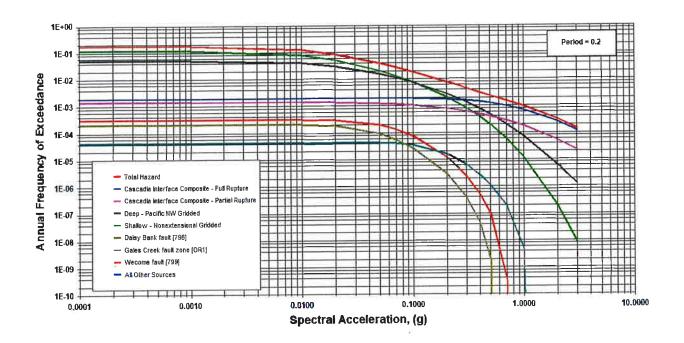


Figure (10) Hazard Contribution from Individual Seismic Sources for 0.2 s Spectral acceleration

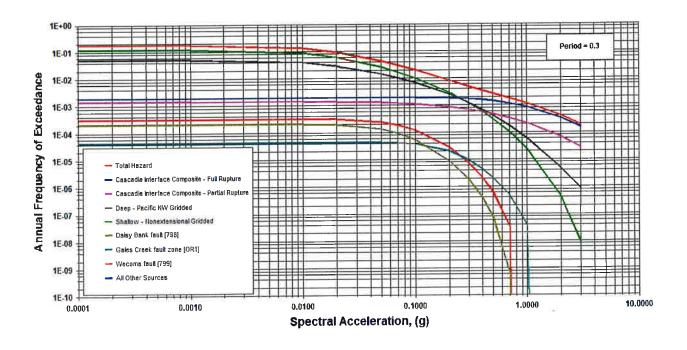


Figure (11) Hazard Contribution from Individual Seismic Sources for 0.3 s Spectral acceleration

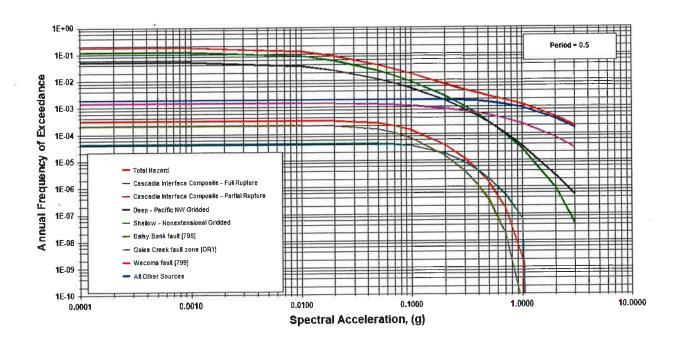


Figure (12) Hazard Contribution from Individual Seismic Sources for 0.5 s Spectral acceleration

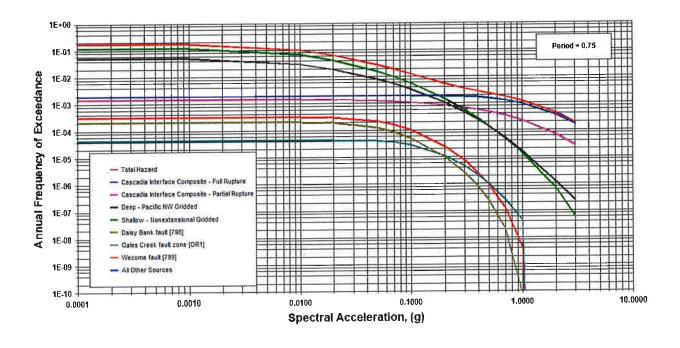


Figure (13) Hazard Contribution from Individual Seismic Sources for 0.75 s Spectral acceleration

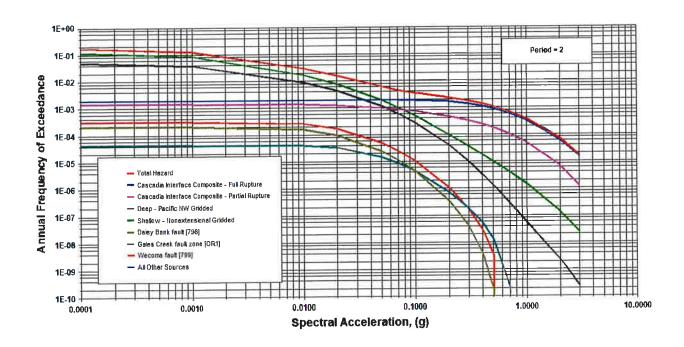


Figure (14) Hazard Contribution from Individual Seismic Sources for 2.0 s Spectral acceleration

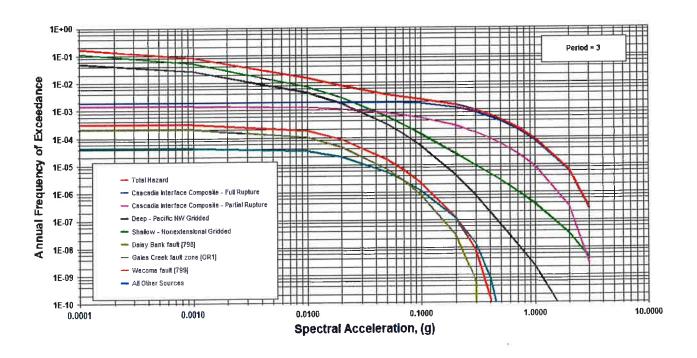


Figure (15) Hazard Contribution from Individual Seismic Sources for 3.0 s Spectral acceleration

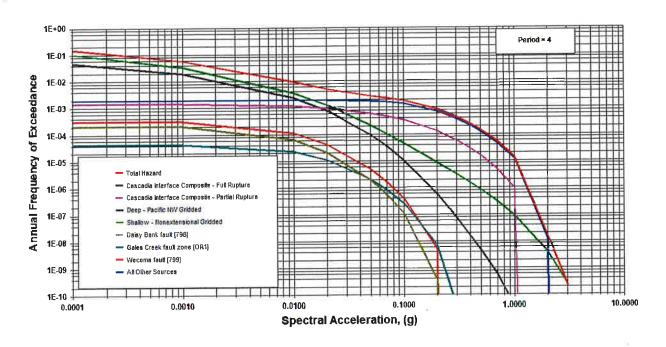


Figure (16) Hazard Contribution from Individual Seismic Sources for 4.0 s Spectral acceleration

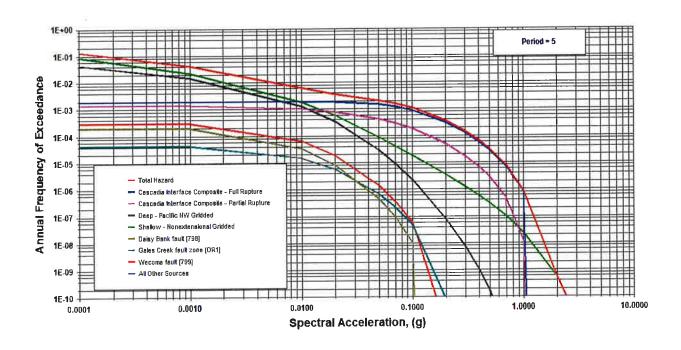


Figure (17) Hazard Contribution from Individual Seismic Sources for 5.0 s Spectral acceleration

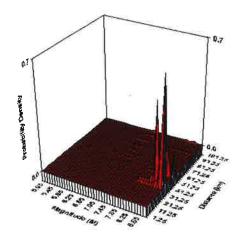


Figure (18) De-aggregation of Total Hazard at 0.5g PGA by Magnitude-Distance

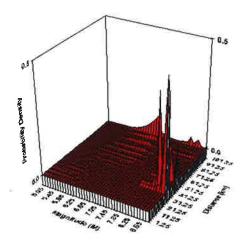


Figure (19) 0.2 s De-aggregation at 0.5g of Total Hazard by Magnitude-Distance

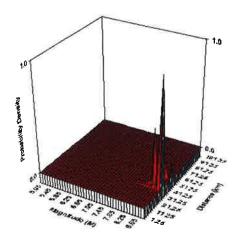


Figure (20) 3.0 s De-aggregation at 0.5g of Total Hazard by Magnitude-Distance

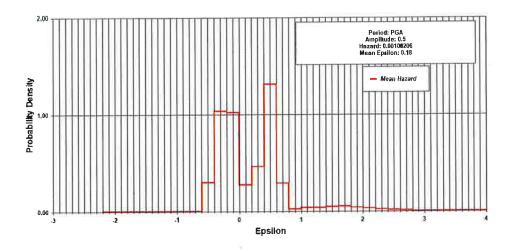


Figure (21) De-aggregation of Total Hazard at 0.5g PGA by epsilon

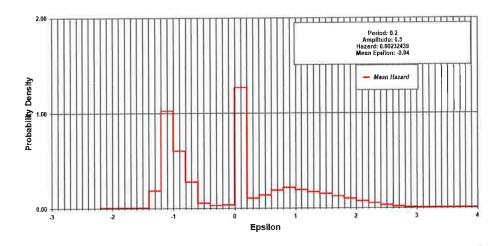


Figure (22) 0.2 s De-aggregation at 0.5g of Total Hazard by epsilon

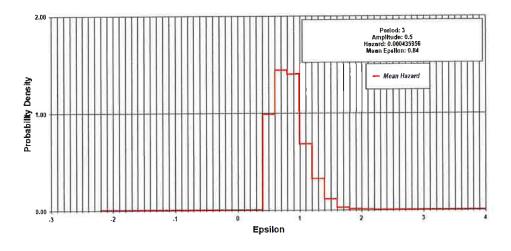


Figure (23) 3 s De-aggregation at 0.5g of Total Hazard by epsilon

Figure (24) displays the geometric mean hazard curves for PGA and for 5 percent-damped spectral ordinates at the selected periods of vibrations for the site. These curves are converted to maximum considered curves by scaling them according to section 21.2 of ASCE/SEI 7-16 and illustrated in Figure (25). The 2500-yr return period time horizon is also illustrated in the two figures. Intersections of this line with the hazard curves in Figure (25) provide the ordinates of the 5-percent damped acceleration response spectrum that has a 2% probability of exceedance within a 50-year. The geometric mean spectrum as well as the maximum considered earthquake spectrum are portrayed in Figure (26).

## 2.1.7 Risk Targeted Probabilistic MCER

According to Method 1, per Section 21.2.1.1 of ASCE/SEI 7-16, the ordinates of the PSH response spectrum of Figure (22) have to be factored by the risk coefficient  $C_R$  to obtain the Probabilistic Risk Targeted Maximum Considered (MCE<sub>R</sub>) Hazard Spectrum. The values of the risk coefficient,  $C_R$ , were determined for short and long period spectral accelerations as  $C_{RS}$  and  $C_{R1}$  from figures 22-18 and 22-19, respectively as 0.861 and 0.853. These values were multiplied by the ordinates of the maximum considered PSH response spectrum of Figure (26) to obtain the Risk Targeted Probabilistic MCE<sub>R</sub> response spectrum, which is depicted in Figure (27).

# 2.4 Deterministic Response Spectrum

ASCE/SEI 7-16 standards specifies that the deterministic spectral acceleration at each period shall be calculated as an 84-th percentile 5% damped spectral response acceleration in the direction of maximum horizontal response computed at that period for characteristic earthquakes on all known active faults within the region. This analysis included all seismic sources up to a distance of 200 km. All the shallow faults and Cascadia Subduction zone in Table (1) were included in the analysis according to their characteristic magnitudes and closest distance to site as indicated in the table.

Each deterministic analysis provided for each fault a weighted average over attenuation equations for the 84-th percentile 5% damped spectral response spectrum for this seismic source. The 84-th percentile 5% damped deterministic response spectra for all the seismic sources are displayed in Figure (28). ASCE/SEI 7-16 requires using the largest calculated for all the spectral accelerations at all the faults i.e., envelope of maximums, for the 84<sup>th</sup> percentile 5% damped deterministic response spectrum. Also, the ordinates of the deterministic response spectrum shall not be above the corresponding ordinates of the lower limit response spectrum determined in accordance with section 21.2.2.

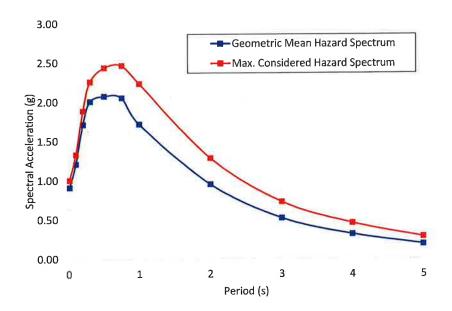


Figure (26) Probabilistic Geometric mean hazard spectra and the maximum considered spectrum

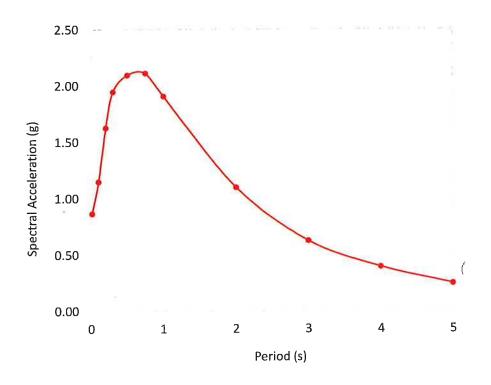


Figure (27) 5% damped Probabilistic MCE<sub>R</sub> Response Spectrum-2% Probability in 50-yr

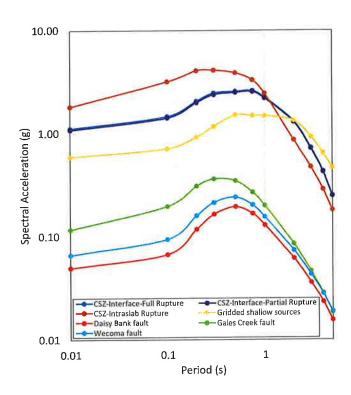


Figure (28) 84<sup>th</sup> Percentile 5% Damped Deterministic Response Spectra for Seismic Sources

The deterministic response spectrum is scaled according to Section 21.2 to convert to  $84^{th}$  percentile 5% damped MCE<sub>R</sub> response spectrum, which is compared to the lower limit deterministic response spectrum in Figure (29).

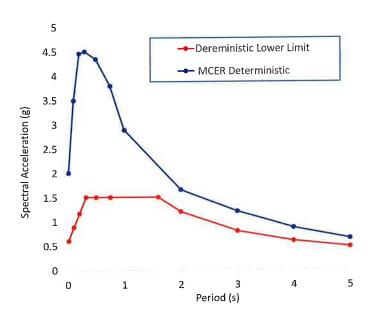


Figure (29) 84<sup>th</sup> Percentile MCE<sub>R</sub> 5% Damped Deterministic Response Spectrum Compared to Lower Limit Deterministic Response Spectrum

## 2.5 Site Specific MCE<sub>R</sub>

According to Section 21.2.3 of ASCE/SET 7-16 Standards, the site-specific MCE<sub>R</sub> spectral acceleration at any period shall be taken as the lesser of the spectral response accelerations from the probabilistic and the deterministic response spectra. The two spectra are compared in Figure (30), which clearly shows that the probabilistic Risk Targeted MCE<sub>R</sub> Spectrum represents the site specific MCE<sub>R</sub> Response Spectrum.

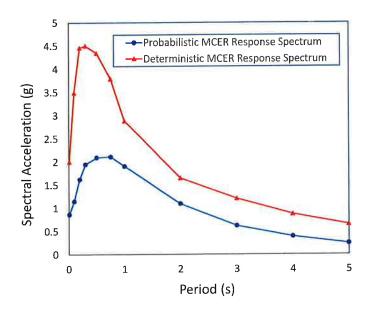


Figure (30) Comparison of Probabilistic and Deterministic Response Spectra

## 2.6 Design Response Spectrum

The design response spectrum is evaluated by multiplying the ordinates of the site probabilistic specific MCE<sub>R</sub> response spectrum by 2/3. ASCE/SEI 7-16 stipulates that the design spectrum should not be taken less than 80% of the spectrum determined in accordance with section 11.4.6. The three spectra are depicted in Figure (31). The design response spectrum is taken as the envelope of maxima and depicted in Figure (32). The design spectrum is also listed in Table (2). This spectrum is representative of Soil Class E with average shear wave velocity of 150 m/s.

Table (2) Design Response Spectrum Soil Class E

Period (s)	PGA	0.1	0.20	0.30	0.50	0.75	1.00	2.00	3.00	4.00	5.00
Sa (g)		0.765	1.084	1.298	1.397	1.408	1.271	0.730	0.488	0.366	0.293

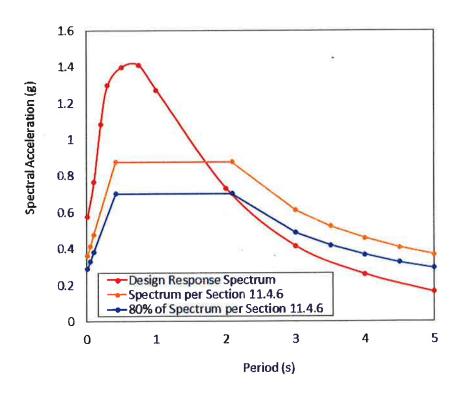


Figure (31) Comparison of Design Response Spectrum to Spectrum developed in accordance with Section 11.4.6

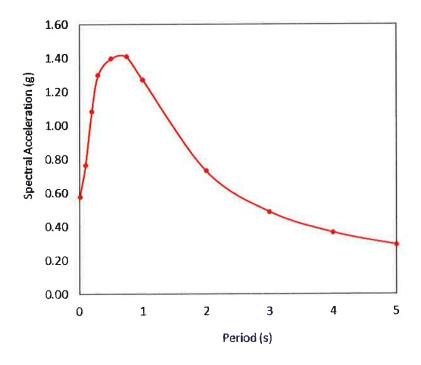


Figure (32) Design Response Spectrum for the Site

## 2.7 Design Acceleration Parameters

The design acceleration parameters are derived from the design spectrum in accordance with Section 21.4 of ASCE/SEI 7-16 .  $S_{DS}$  was determined as 0.90 of the maximum spectral acceleration of the design spectrum at any period within the range 0.2 to 5 s. The parameter  $SD_1$  was determined as the maximum value of the product  $TS_a$  for periods from 1 to 5 s. These values shall not be less than 80% of those calculated in accordance with section 11.4. This verification is illustrated in Table (3). The design spectrum is reconstructed using the design acceleration parameters as indicated in section 21.4 of ASCE/SEI 7-16 and the procedure of Section 11.4.6 with Fa and Fv of 1.24 and 2.78 respectively as obtained from the MCER spectrum. The value of Fa should be used if IBC calls for the simplified design procedure of ASCE 7-16 Section 12.14. The two spectra are depicted in Figure (33) for comparison. It should be noted that  $S_{DS}$  and  $S_{D1}$  are corresponding to periods 0.23 s and 1.16 s respectively.

Table (3) Design Acceleration Parameters Verification

Spectrum	S <sub>DS</sub> (g)	S <sub>D1</sub> (g)	S <sub>MS</sub> (g)	S <sub>M1</sub> (g)	
Design Spectrum	1.267	1.463	1.901	2.195	
minimum Limiting valu	0.867	1.017	1.301	1.525	

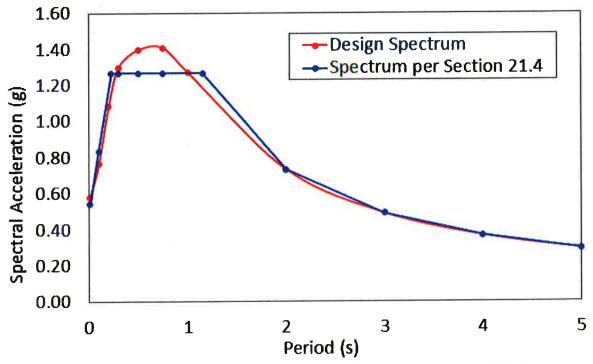


Figure (33) Design Spectrum following Sections 21.3 & 21.4 of ASCE/SEI 7-16

# 3. Epilogue

This report outlined the study to develop the design response spectrum for the Roby's Furniture site located between Oregon Coast Highway 101 and SE Marlin Avenue, Warrenton, Oregon. The site is characterized by soil Class E. Section 1613 of the 2018 International Building Code (IBC) "Earthquake Loads", which defines the site-specific seismic ground motion values. IBC refers to the procedures of Chapter 11 of ASCE Standard "Minimum Design Loads and Associated Criteria for Buildings and Other Structures" (ASCE/SEI 7-16). ASCE/SEI 7-16 requires site-specific seismic hazard analysis to develop the design response spectrum for this site and evaluate design acceleration parameters.

The probabilistic site-specific seismic hazard analysis included all three local shallow faults that are within 200 km distance from the site. The Cascadia Subduction Zone (CSZ) as well as gridded seismicity were also included. The study accounted for two rupture scenarios for the CSZ, interface rupture and slab rupture. The study employed 4 universal ground motion predictive equations that are based on the Next Generation Attenuation for Western US (NGA-West2) research project to represent the seismicity at the shallow fault sources and the shallow gridded sources. The PSHA study also used 3 state-of-practice GMPEs for CSZ.

The 5% damped probabilistic MCER response spectrum that is expected to achieve a 1% probability of collapse within a 50-year period was evaluated in accordance with Section 21.2.1 of ASCE/SEI 7-16. A deterministic MCE<sub>R</sub> response spectrum was also established. First, the 84<sup>th</sup>-percentile 5% damped spectral response spectrum for each seismic source was calculated. Next, the largest of all the calculated spectral accelerations from all analyses was used to construct the deterministic response spectrum. Finally, the deterministic response spectrum was compared to the probabilistic response spectrum and the site-specific response spectrum was taken as the lesser of the two spectra, which is the probabilistic response spectrum. The design response spectrum was then calculated following the requirements of Section 21.3. Design acceleration parameters were also established following Section 21.4 and indicated on the design response spectrum.

## 4. References

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BC Hydro (2012). Probabilistic Seismic Hazard Analysis (PSHA) Model, vols. 1–4, BC Hydro Engineering Report E658, Vancouver.

Boore, D. M, Stewart, J. P., Seyhan, E. and G. M. Atkinson (2014). NGA-West2 equations for predicting PGA, PGV, and 5% damped PSA for shallow crustal earthquakes. Earthquake Spectra, Vol. 30, No. 3, pp. 1057-1085.

Campbell, K. W. and Y. Bozorgnia (2014). NGA-West2 ground motion model for the average horizontal components of PGA, PGV, and 5% damped linear acceleration response spectra. Earthquake Spectra, Vol. 30, No. 3, pp. 1087-1115.

Chiou, B. S.-J., and R. R. Youngs (2014). Update of the Chiou and Youngs NGA model for the average horizontal component of peak ground motion and response spectra. Earthquake Spectra, Vol. 30, No. 3, pp. 1117-1153.

Earthquake Engineering Research Institute (1989). The basics of seismic risk analysis, Earthquake Spectra, Vol. 5, pp. 675–699.

Mayne, P. W. and Rix, G. J., "G~-q~ Relationships for Clays," Geotechnical Testing Journal, GTJODJ, Vol. 16, No. 1, March 1993, pp. 54-60.

Rix, G. J. and Stokoe, K. H., 1991, "Correlation of Initial Tangent Modulus and Cone Penetration Resistance," Calibration Chamber Testing, Proceedings, ISOCCT-1, A. B. Huang, Ed., Elsevier Publishing, New York, pp. 351-362.

Youngs, R.R., Chiou, S.-J., Silva, W.J., Humphrey, J.R. (1997), "Strong Ground Motion Attenuation Relationships for Subduction Zone Earthquakes," Seismological Research Letters, vol. 68, no. 1, pp 58-73.

# Appendix A Verification of the Uniform Hazard Spectrum

The uniform hazard spectrum (UHS) (geometric mean), which is the geometric mean spectrum and the basis of the design spectrum was developed according to site specific seismic hazard analysis that employed attenuation equations for site class E. This spectrum is depicted along with the MCER spectrum in Figure (26). We employ in this section site response analysis using four bore logs from the site as means of verification of the UHS.

The soil profiles indicated in the CPT logs 1, 2, 5, 101, and 102 were used to establish 5 site response models as means of preparation of the one-dimensional site response analyses. The distribution of Shear wave velocities at all the bore logs were inferred from the tip resistances using empirical equations by Mayne and Rix (1993) for clay and Rix and Stokoe (1991) for cohesionless soil. It was noticed that all soil bore holes were terminated where the soils stiffnesses are classified stiff soil. Therefore, the input response spectrum that was used as a basis for the ground response analyses was taken equivalent to Class C. This spectrum was developed using a site-specific seismic hazard analysis for site Class C with VS30 = 1600 ft/s.

Five recorded horizontal ground motion accelerograms were selected for the site response analyses and their properties are listed in Table (A-1). The ground motions are consistent in terms of magnitude and distance with an earthquake scenario at the site. The ground motions were then scaled in time and frequency to be compatible with the input spectrum of soil class D developed for the site. Every scaled ground acceleration was applied to the soil profile at each of the five CPT Logs and the SHAKE approach (Schnabel et al. 1972) was used in a one-dimensional equivalent linear analysis to evaluate the response of the site. This approach assumes the ground motion a seismic shear wave that propagates in the vertical direction to shear the soil in a horizontal direction. The analysis is performed in the frequency domain.

25 analyses were performed in total and for each case the response spectrum of the ground acceleration at the surface was determined. These response spectra for the five ground motions at the five CPT Logs are displayed in Figures A-1 through A-5 along with their averages. In a subsequent step, mean spectra for the five holes are compared to the UHS (Site Class E) in Figure A-6 and the mean spectrum for the five bore holes is depicted against the UHS in Figure A-7. It can be observed that the UHS enveloped the mean site response spectrum for the majority of the periods.

Table (A-1) Properties of ground motions used in ground response analyses

Earthquake	Station	Station Date		
Hector Mine	Morongo Valley, CA	10/16/1999	7.1	67
Landers	Elizabeth Lake, CA	6/28/1992	7.3	186.1
Loma Prieta/Santa Cruz Mountains	Hollister, CA	10/18/1989	7	13.9
Big Bear	San Bernardino, CA	6/28/1992	6.6	44.5
Northridge	Los Angeles-Hollywood Storage Bldg	1/17/1994	6.7	29.7

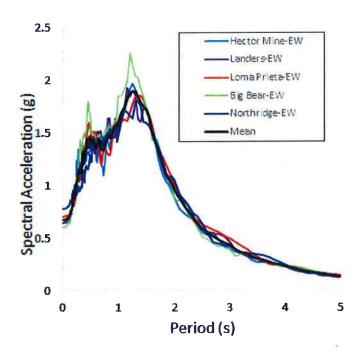


Figure (A-1) Response spectra at the Surface and their mean due to vertical propagation of the scaled ground motion through Bore LOG CPT1

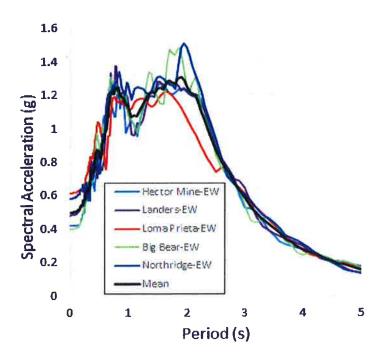


Figure (A-2) Response spectra at the Surface and their mean due to vertical propagation of the scaled ground motion through Bore LOG CPT2

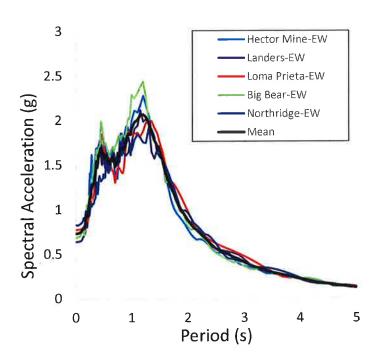


Figure (A-3) Response spectra at the Surface and their mean due to vertical propagation of the scaled ground motion through Bore LOG CPT5

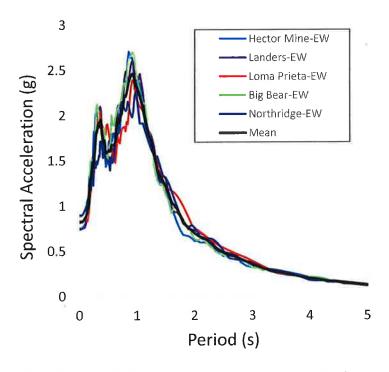


Figure (A-4) Response spectra at the Surface and their mean due to vertical propagation of the scaled ground motion through Bore LOG CPT101

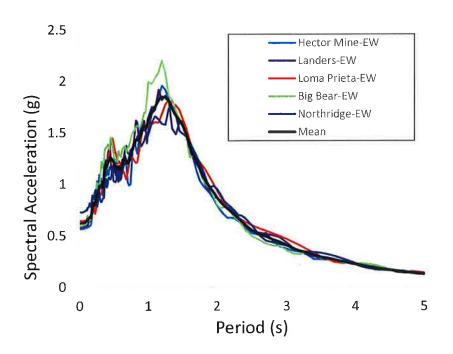


Figure (A-5) Response spectra at the Surface and their mean due to vertical propagation of the scaled ground motion through Bore LOG CPT102

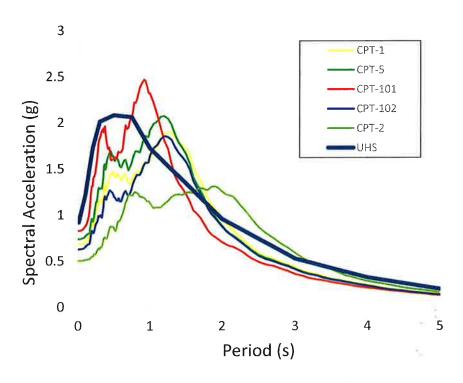


Figure (A-6) Mean spectra of the five bore logs depicted against the UHS

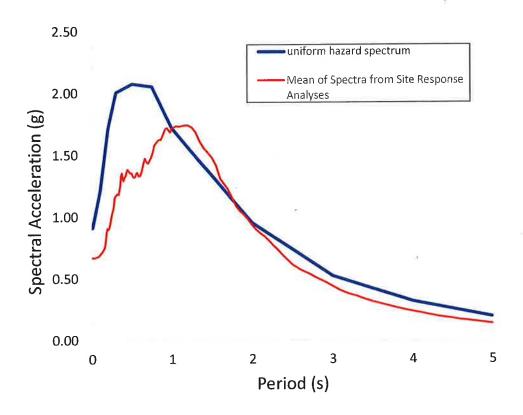


Figure (A-6) Mean spectrum of the five bore logs compared to the UHS

# **APPENDIX G**

"Land Use Compatibility Statement for Roby's Furniture Project", City of Warrenton Letter to DEQ, May 12, 2021



May 12, 2021

To:

Oregon Department of Environmental Quality

From: Will Caplinger, Interim City Planner, City of Warrenton

Re:

Land Use Compatibility Statement for Roby's Furniture project

#### Findings under Section 2.E.:

- 1. The project is compatible with the acknowledged City of Warrenton Comprehensive Plan. The project area is within the Commercial Lands designation. Section 3.320(1)(c) of the Comprehensive Plan states that, "the purpose of the General Commercial Zone is to allow a broad range of commercial uses..."
- 2. The project area is within the General Commercial (C-1) District. Warrenton Municipal Code (WMC) Section 16.40.020.A.2 states that "Retail business establishments" are a permitted use.
  - a. The project is subject to WMC Sections 16.40.040 Development Standards and 16.40.060 Other Applicable Standards.
  - b. The project area contains Locally Significant Wetlands. Development is subject to the Wetland Area Protection Standards in WMC 16.156.030.

# **Land Use Compatibility Statement**

Section 1 – To be completed by the applicant					
1A. Applicant Name: Warrenton Property Investments, L	1B. Project Name: Roby's Furniture				
Contact Name: Kyle Langeliers	Physical Address: NW Corner of Fort Stephens Hwy				
Mailing Address: 5111 N Coast Highway City, State, Zip:Warrenton, Oregon					
City, State, Zip:Newport, Oregon 97365	Tax Lot #: 81027AB06400				
Telephone: 503-812-8267	Township: 8N Range: 10W Section: 27				
Tax Account #:	Latitude:46.153934				
86-1391915  1C. Describe the project, include the type of development, busing	Longitude:_123.906084				
additional information if necessary): Proposed new commercial/retail development: Roby's	Furniture Store.				
1D. Check the type of DEQ permit(s) or approval(s) being applied	ed for at this time.				
☐ Air Quality Notice of Construction	☐ Clean Water State Revolving Fund Loan				
☐ Air Contaminant Discharge Permit	Request				
☐ Air Quality Title V Permit	☐ Wastewater/Sewer Construction Plan/				
☐ Air Quality Indirect Source Permit	Specifications (includes review of plan				
☐ Parking/Traffic Circulation Plan	changes that require use of new land)				
☐ Solid Waste Land Disposal Site Permit	☐ Water Quality NPDES Individual Permit				
☐ Solid Waste Treatment Facility Permit	☐ Water Quality WPCF Individual Permit (for				
☐ Solid Waste Composting Facility Permit	onsite construction-installation permits use				
(includes Anaerobic Digester)	the DEQ Onsite LUCS form)				
☐ Conversion Technology Facility Permit	☑ Water Quality NPDES Stormwater General				
☐ Solid Waste Letter Authorization Permit	Permit (1200-A, 1200-C, 1200-CA,				
☐ Solid Waste Material Recovery Facility Permit	1200-COLS, and 1200-Z)				
☐ Solid Waste Energy Recovery Facility Permit	☐ Water Quality General Permit (all general				
☐ Solid Waste Transfer Station Permit	permits, except 600, 700-PM, 1700-A, and				
☐ Waste Tire Storage Site Permit	1700-B when they are mobile)				
☐ Pollution Control Bond Request	☐ Water Quality 401 Certification for federal				
☐ Hazardous Waste Treatment, Storage or	permit or license				
Disposal Permit					
This application is for Permit Renewal W New Permit	Permit Modification Other:				

Section 2 – To be completed by city or county planning official				
Applicant name: Warrenton Property Investments, LLC	Project name: Roby solituren	iture		
Instructions: Written findings of fact for all local decisions are required; written findings from previous actions are acceptable. For uses allowed outright by the acknowledged comprehensive plan, DEQ will accept written findings in the form of a reference to the specific plan policies, criteria, or standards that were relied upon in rendering the decision with an indication of why the decision is justified based on the plan policies, criteria, or standards.				
2A. The project proposal is located: It inside city limits	Inside UGB   Outside UGB			
2B. Name of the city or county that has land use jurisdiction (the	e legal entity responsible for land use	decisions for		
the subject property or land use): City of Warrenton	d			
<ul> <li>2C.          ☐ This project is not within the jurisdiction of any other land</li> <li>☐ This project is also within the jurisdiction of the following</li> </ul>				
2D. Is the activity allowed under Measure 49 (2007)?  No, M		f wes then check one:		
☐ Express; approved by DLCD order #:	castile 40 is not applicable. 🗀 163, i	yes, alon block one.		
☐ Conditional; approved by DLCD order #:				
☐ Vested; approved by local government decision or court judg	ment docket or order #			
2E. Is the activity a composting facility?	filelit docket or order #.			
✓ No ☐ Yes; Senate Bill 462 (2013) notification require	ements have been met.			
2F. Is the activity or use compatible with your acknowledged co		R 660-031?		
Please complete this form to address the activity or use for which				
page). If the activity or use is to occur in multiple phases, please	e ensure that your approval addresse	s the phases described in		
1C. For example, if the applicant's project is described in 1C. as grading are allowed outright but does not indicate whether the s	a subdivision and the LOCS indicate	s that only dealing and		
approval for the subdivision is obtained from the local planning		y pomit issuance until		
☐ The activity or use is specifically exempt by the acknowledge				
☐ Yes, the activity or use is pre-existing nonconforming use all	lowed outright by (provide reference t	or local ordinance):		
☐ Yes, the activity or use is allowed outright by (provide refere	nce for local ordinance):			
Yes, the activity or use received preliminary approval that in findings are attached.	cludes requirements to fully comply w	rith local requirements;		
✓ Yes, the activity or use is allowed; findings are attached.				
☐ No, see 2D. above, activity or use allowed under Measure 4	9; findings are attached.			
☐ No, (complete below or attach findings for noncompliance a	nd identify requirements the applicant	must comply with before		
compatibility can be determined):				
Relevant specific plan policies, criteria, or standards:				
Provide the reasons for the decision:				
Additional comments (attach additional information as needed):				
Planning Official Signature:	Title: Interim City Pl	anner		
Doubleman Trianh				
	one #: (503) 468-1015	Date: 5/12/21		
If necessary, depending upon city/county agreement on jurisdic	tion outside city limits but within UGB			
Planning Official Signature:	Title:			
Print Name: Teleph	one #: (503) 468-1015	Date:		

# **Alternative formats**

# DEQ State of Oregon Department of Errotromental

### State of Oregon Department of Environmental Quality

# **Land Use Compatibility Statement**

# What is a Land Use Compatibility Statement?

A LUCS is a form developed by DEQ to determine whether a DEQ permit or approval will be consistent with local government comprehensive plans and land use regulations.

# Why is a LUCS required?

DEQ and other state agencies with permitting or approval activities that affect land use are required by Oregon law to be consistent with local comprehensive plans and have a process for determining consistency. DEQ activities affecting land use and the requirement for a LUCS may be found in Oregon Administrative Rules (OAR) Chapter 340, Division 18.

# When is a LUCS required?

A LUCS is required for nearly all DEQ permits and certain approvals of plans or related activities that affect land use prior to issuance of a DEQ permit or approval. These permits and activities are listed in section 1.D on p. 2 of this form. A single LUCS can be used if more than one DEQ permit or approval is being applied for concurrently.

Permit modifications or renewals also require a LUCS when any of the following applies:

- 1. Physical expansion on the property or proposed use of additional land;
- 2. Alterations, expansions, improvements or changes in method or type of disposal at a solid waste disposal site as described in OAR 340-093-0070(4)(b):
- 3. A significant increase in discharges to water;
- 4. A relocation of an outfall outside of the source property; or
- 5. Any physical change or change of operation of an air pollutant source that results in a net significant emission rate increase as defined in OAR 340-200-0020.

# How to complete a LUCS:

Step	Who does it?	What happens?
1.	Applicant	Applicant completes Section 1 of the LUCS and submits it to the appropriate city or county planning office.
2.	City or County Planning Office	City or county planning office completes Section 2 of the LUCS to indicate whether the activity or use is compatible with the acknowledged comprehensive plan and tand use regulations, attaches written findings supporting the decision of compatibility, and returns the signed and dated LUCS to the applicant.
3.	Applicant	Applicant submits the completed LUCS and any supporting information provided by the city or county to DEQ along with the DEQ permit application or approval request.

### Where to get help:

For questions about the LUCS process, contact the DEQ staff responsible for processing the permit or approval. DEQ staff may be reached at 1-800-452-4011 (toll-free, inside Oregon) or 503-229-5630. For general questions, please contact DEQ land use staff listed on our <u>Land Use CompatibilityStatement page</u> online.

#### Cultural resources protection laws:

Applicants involved in ground-disturbing activities should be aware of federal and state cultural resources protection laws. ORS 358.920 prohibits the excavation, injury, destruction, or alteration of an archeological site or object or removal of archeological objects from public and private lands without an archeological permit issued by the State Historic Preservation Office. 16 USC 470, Section 106, National Historic Preservation Act of 1966 requires a federal agency, prior to any undertaking, to take into account the effect of the undertaking that is included on or eligible for inclusion in the National Register. For further information, contact the State Historic Preservation Office at 503-378-4168, ext. 232.

# APPENDIX H

U.S. Army Corps of Engineers, Permit No. NWP-2007-745, Warrenton Fiber Company, September 10, 2009

### DEPARTMENT OF THE ARMY PERMIT

Permittee: Warrenton Fiber Company

Permit No: NWP-2007-745

Issuing Office: U.S. Army Corps of Engineers, Portland District

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description: The project consists of construction of approximately 153,239 square feet of retail space, approximately 656 parking spaces, and associated infrastructure. The project involves filling approximately 14.9 acres of wetlands in a 17.15-acre site. The total fill includes 81,000 cubic yards of rock and sand. Approximately 21,000 cubic yards of topsoil will be removed from the site for upland disposal.

To compensate for unavoidable impacts to waters of the United States, the permittee will preserve 131 acres of wetlands in the Warrenton and Seaside areas, including creation, enhancement, and restoration of 5.9 acres of wetlands in the Seaside area.

Purpose: Commercial retail development in Warrenton.

Project Location: The proposed project is located in wetlands along Marlin Ave., behind the existing Les Schwab store, Sections 22 and 27, Township 8 North, Range 10 West, Warrenton, Classop County, Oregon.

Drawings: There are sixteen (16) drawings labeled Corps ID NWP-2007-745 (Enclosure 1). General Conditions:

- The time limit for completing the work authorized ends on September 30, 2014. If you find that you need more time to
  complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before
  the above date is reached.
- 2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
- 3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
- 4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.
- 5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions (Enclosure 2).
- 6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

#### Special Conditions:

 You shall notify the Regulatory Branch with the start date when the activities authorized in waters of the U.S. are scheduled to begin. Notification shall be sent by email to cenwp.notify@usace.army.mil or mailed to the following address:

U.S. Army Corps of Engineers CENWP-OD-GC Permit Compliance, Clatsop County P.O. Box 2946 Portland, Oregon 97208-2946

The subject line of the message shall contain the name of the county in which the project is located followed by the Corps of Engineers permit number.

- You shall submit a signed certification regarding the completed work and any required mitigation. A "Compliance Certification" is provided (Enclosure 3).
- 3. The permittee shall fully implement the enclosed Initial Stormwater Management Plan for Removal/Fill Permits: Warrenton Fiber Retail Development, dated August 2008 (Enclosure 4).
- 4. The permittee shall fully implement the enclosed Marlin Avenue Mitigation Plan: Warrenton Fiber Company (CWM Plan), revised March 2009 (Enclosure 5). The CWM Plan shall be started prior to or concurrently with the first discharge of dredge or fill material into Waters of the U.S. The planting components of the plan shall be completed by Fall 2010.
- The permittee shall maintain and monitor the site for a five-year period following start of construction to ensure performance criteria are met. The performance criteria are described on pages 30 through 32 of the CWM Plan.
- 6. The permittee shall submit an "as-built" report to the Corps by December 30, 2010. The contents of the report shall include a narrative summary of the completed actions to date and photographic documentation of site conditions before, during, and after construction of the wetland mitigation site. The photographs shall be dated and labeled on a site map showing location and orientation.
- 7. The permittee shall submit annual monitoring reports to the Corps by December 30 of each year for the five-year monitoring period. The contents of the report shall include the information detailed in the enclosed Compensatory Mitigation Monitoring Reports guidance dated November 2008 (Enclosure 6).
- Prior to the first discharge of dredge or fill material into wetlands or waterways, the permittee shall provide the Corps
  documentation of final transfer of a 48,000 U.S. dollar financial endowment to the North Coast Land Conservancy. Proof
  of endowment shall be provided to the Corps a minimum 30 days prior to placement of fill in Waters of the U.S.
- The permittee's responsibility to complete the required compensatory mitigation as set forth in Special Conditions 3-8 will
  not be considered fulfilled until you have demonstrated mitigation success and have received written verification from the
  U.S. Army Corps of Engineers.

#### Further Information:

- 1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
  - ( ) Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403).
  - (x) Section 404 of the Clean Water Act (33 U.S.C. 1344).
  - Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 U.S.C. 1413).
- 2. Limits of this authorization.

NWP-2007-745

- a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
- This permit does not grant any property rights or exclusive privileges.
- c. This permit does not authorize any injury to the property or rights of others.
- d. This permit does not authorize interference with any existing or proposed Federal project.
- 3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
  - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
  - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
  - Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
  - d. Design or construction deficiencies associated with the permitted work.
  - e. Damage claims associated with any future modification, suspension, or revocation of this permit.
- Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest
  was made in reliance on the information you provided.
- Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant.
   Circumstances that could require a reevaluation include, but are not limited to, the following:
  - a. You fail to comply with the terms and conditions of this permit.
  - The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).
  - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a recvaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit. 9/10/09 (DATE) Soc/Tres (PERMITTEE SIGNATURE) DAVID Myganish (PRINTED NAME) This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below. FOR THE COMMANDER, STEVEN R. MILES, P.E., COLONEL, CORPS OF ENGINEERS, DISTRICT COMMANDER 10 SEP 2009 Erik S. Petersen Chief, Regulatory Branch When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below. (DATE) (TRANSFEREE)

# APPENDIX I

Oregon DSL, Wetland Fill Permit, Permit No: 38988-FP Renewal, Expiration Date, August 7, 2021, Warrenton Fiber Company

775 Summer Street NE, Suite 100 Salem, OR 97301-1279 503-986-5200

Permit Type: Waterway: County: Expiration Date: Fill Wetland Clatsop

August 7, 2021

#### WARRENTON FIBER COMPANY

IS AUTHORIZED IN ACCORDANCE WITH ORS 196.800 TO 196.990 TO PERFORM THE OPERATIONS DESCRIBED IN THE REFERENCED COPY OF THE APPLICATION, SUBJECT TO THE SPECIAL CONDITIONS LISTED ON ATTACHMENT A AND TO THE FOLLOWING GENERAL CONDITIONS:

- 1. This permit does not authorize trespass on the lands of others. The permit holder shall obtain all necessary access permits or rights-of-way before entering lands owned by another.
- This permit does not authorize any work that is not in compliance with local zoning or other local, state, or federal regulation pertaining to the operations authorized by this permit. The permit holder is responsible for obtaining the necessary approvals and permits before proceeding under this permit.
- 3. All work done under this permit must comply with Oregon Administrative Rules, Chapter 340; Standards of Quality for Public Waters of Oregon. Specific water quality provisions for this project are set forth on Attachment A.
- 4. Violations of the terms and conditions of this permit are subject to administrative and/or legal action, which may result in revocation of the permit or damages. The permit holder is responsible for the activities of all contractors or other operators involved in work done at the site or under this permit.
- 5. Employees of the Department of State Lands and all duly authorized representatives of the Director shall be permitted access to the project area at all reasonable times for the purpose of inspecting work performed under this permit.
- 6. Any permit holder who objects to the conditions of this permit may request a hearing from the Director, in writing, within twenty-one (21) calendar days of the date this permit was issued.
- 7. In issuing this permit, the Department of State Lands makes no representation regarding the quality or adequacy of the permitted project design, materials, construction, or maintenance, except to approve the project's design and materials, as set forth in the permit application, as satisfying the resource protection, scenic, safety, recreation, and public access requirements of ORS Chapters 196, 390, and related administrative rules.
- 8. Permittee shall defend and hold harmless the State of Oregon, and its officers, agents, and employees from any claim, suit, or action for property damage or personal injury or death arising out of the design, material, construction, or maintenance of the permitted improvements.
- 9. Authorization from the U.S. Army Corps of Engineers may also be required.

NOTICE: If removal is from state-owned submerged and submersible land, the applicant must comply with leasing and royalty provisions of ORS 274.530. If the project involves creation of new lands by filling on state-owned submerged or submersible lands, you must comply with ORS 274.905 to 274.940. This permit does not relieve the permittee of an obligation to secure appropriate leases from the Department of State Lands, to conduct activities on state-owned submerged or submersible lands. Failure to comply with these requirements may result in civil or criminal liability. For more information about these requirements, please contact the Department of State Lands, 503-986-5200.

Dan Cary, Aquatic Resource Coordinator Aquatic Resource Management Oregon Department of State Lands

\- \_\_\_\_

August 7, 2020

Date

**Authorized Signature** 

#### **ATTACHMENT A**

**Permittee: Warrenton Fiber Company** 

Project: Marlin Avenue/Hwy 101 Commercial Development

Special Conditions for Removal/Fill Permit No. 38988-FP

### READ AND BECOME FAMILIAR WITH CONDITIONS OF YOUR PERMIT.

The project site may be inspected by the Department of State Lands (DSL) as part of our monitoring program. DSL has the right to stop or modify the project at any time if you are not in compliance with these conditions. A copy of this permit shall be available at the work site whenever authorized operations are being conducted.

- 1. **Responsible Party:** By signature of the application, David Nygaard is acting as the representative of Warrenton Fiber Company. By proceeding under this permit, Warrenton Fiber Company agrees to comply with and fulfill all terms and conditions of this permit. Warrenton Fiber Company is responsible for carrying out the terms and conditions of this permit unless the permit is officially transferred to another party as approved by DSL.
- 2. Authorization to Conduct Removal and/or Fill: This permit authorizes the placement of up to 81,000 cubic yards and removal of up to 26,000 cubic yards (14.9 acres of wetland impact) of material in T8N R10W Section 22, Tax Lots 5700, 6000, 4900, 5800, 6100, 5000, 5900, and Section 27, Tax Lots 200, 700, 1300, 1900, 2200, 2500, 300, 1100, 1600, 2000, 2300, 600, 1200, 1601, 2100, 2400, Wetland, Clatsop County, as described in the referenced permit application, map and drawings, received April 10 and May 1, 2009; renewal application received on June 29, 2012; and the revised Compensatory Mitigation Plan, received October 1, 2012. In the event information in the application conflicts with these permit conditions, the permit conditions prevail.
- 3. **Authorization to Conduct Compensatory Mitigation:** This permit also authorizes removal and fill activities necessary to complete the required compensatory mitigation.
- 4. Changes to the Project or Inconsistent Requirements from Other Permits: It is the permittee's responsibility to ensure that all state, federal and local permits are consistent and compatible with the final approved project plans and the project as executed. Any changes made in project design, implementation and/or operating conditions to comply with conditions imposed by other permits must be approved by DSL prior to implementation.
- 5. **DSL May Halt or Modify:** DSL retains the authority to temporarily halt or modify the project in case of unforeseen damage to natural resources.
- 6. **DSL May Modify Conditions Upon Permit Renewal:** DSL retains the authority to modify conditions upon renewal, as appropriate, pursuant to the applicable rules in effect at the time of the request for renewal or to protect waters of this state.

#### **Pre-Construction**

7. Stormwater Management Approval Required Before Beginning Work: Issuance of the permit is contingent upon acquisition of a National Pollution Discharge Elimination System (NPDES)

339

#### **General Construction Conditions**

- 8. Water Quality Certification: The Department of Environmental Quality (DEQ) may evaluate this project for a Clean Water Act Section 401 Water Quality Certification (WQC). If the evaluation results in issuance of a Section 401 WQC, that turbidity condition will govern any allowable turbidity exceedance and monitoring requirements.
- 9. **Erosion Control Methods:** The following erosion control measures (and others as appropriate) shall be installed prior to construction and maintained during and after construction as appropriate, to prevent erosion and minimize movement of soil into waters of this state.
  - a. All exposed soils shall be stabilized during and after construction in order to prevent erosion and sedimentation.
  - b. Filter bags, sediment fences, sediment traps or catch basins, leave strips or berms, or other measures shall be used to prevent movement of soil into waterways and wetlands.
  - c. To prevent erosion, use of compost berms, impervious materials or other equally effective methods, shall be used to protect soil stockpiled during rain events or when the stockpile site is not moved or reshaped for more than 48 hours.
  - d. Unless part of the authorized permanent fill, all construction access points through, and staging areas in, riparian and wetland areas shall use removable pads or mats to prevent soil compaction. However, in some wetland areas under dry summer conditions, this requirement may be waived upon approval by DSL. At project completion, disturbed areas with soil exposed by construction activities shall be stabilized by mulching and native vegetative plantings/seeding. Sterile grass may be used instead of native vegetation for temporary sediment control. If soils are to remain exposed more than seven days after completion of the permitted work, they shall be covered with erosion control pads, mats or similar erosion control devices until vegetative stabilization is installed.
  - e. Where vegetation is used for erosion control on slopes steeper than 2:1, tackified seed mulch shall be used so the seed does not wash away before germination and rooting.
  - f. Dredged or other excavated material shall be placed on upland areas having stable slopes and shall be prevented from eroding back into waterways and wetlands.
  - g. Erosion control measures shall be inspected and maintained as necessary to ensure their continued effectiveness until soils become stabilized.
  - h. All erosion control structures shall be removed when the project is complete and soils are stabilized and vegetated.
- 10. Hazardous, Toxic, and Waste Material Handling: Petroleum products, chemicals, fresh cement, sandblasted material and chipped paint, wood treated with leachable preservatives or other deleterious waste materials shall not be allowed to enter waters of this state. Machinery refueling is to occur at least 150 feet from waters of this state and confined in a designated area to prevent spillage into waters of this state. Barges shall have containment system to effectively prevent petroleum products or other deleterious material from entering waters of this state. Project-related spills into waters of this state or onto land with a potential to enter waters of this state shall be reported to the Oregon Emergency Response System (OERS) at 1-800-452-0311.
- 11. Federally Listed Endangered or Threatened Species: When listed species are present, the authorization holder must comply with the Federal Endangered Species Act. If previously

38988-FP Renewal Page 4 of 9

- unknown listed species are encountered during construction, all construction activity shall immediately cease and the permit holder must contact DSL.
- 12. **Archaeological Resources:** If any archaeological resources and/or artifacts are encountered during construction, all construction activity shall immediately cease. The State Historic Preservation Office shall be contacted at 503-986-0674. You may be contacted by a Tribal representative if it is determined by an affected Tribe that the project could affect Tribal cultural or archeological resources.

### **Compensatory Wetland Mitigation**

The following conditions apply to the compensatory wetland mitigation actions proposed in the application Mitigation Plan dated March 2009, *updated October 1, 2012, and Mitigation Bank Credits withdrawn in 2014.* 

13. Acreage and Type of Compensatory Mitigation: Mitigation shall be conducted according to the acreages and methods described in the table below.

<u>Acres</u>	Cowardin/HGM Class	<u>Method</u>			
Authorized Impacts					
14.9 acres	PEM/PSS; Flats				
Required Mitigation					
106.4 acres Skipanon Forest	R1/E2FO/PFO; Riverine flow-through/estuarine fringe/riverine	Conservation			
15.2 acres Sand Creek	PFOF/PSSF; Depressional outflow non- permanently flooded	Conservation			
5.2 acres <b>Scott Wetlands</b>	PFOF; Depressional outflow non-permanently flooded	Conservation			
Claremont Wetland Mitigation Bank	PFO/PEM; Estuarine fringe river-sourced (3.54 credits withdrawn)	Enhancement			

14. Mitigation Site Location: Mitigation shall be conducted off site. The center-point of the mitigation sites are 46.14398 degrees latitude, -123.92519 degrees longitude (Skipanon Forest); 46.1529 degrees latitude, -123.7179 degrees longitude (Claremont); 46.15394 degrees, -123.93263 degrees longitude (Sand Creek); and 46.16833 degrees latitude, -123.93771 degrees longitude (Scott Wetlands). The current legal descriptions are as follows: Skipanon Forest –T8N. R10W, Section 28, Tax lots 1900, 3000, 3905, 100, 200, 300, 400, 500, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500 and Section 33, Tax lots 1100, 2101, as shown on Figure #11A of the mitigation plan (June 2012); Claremont – T8N, R8W, Section 30AB, portion of Tax lot 100 as shown on Figure # 2 of the mitigation plan (September 2012); Sand Creek – T8N, R10W, Section 28, Tax lot 2700 as shown on Figure # 11C of the mitigation plan (June 2012); Scott Wetlands - T8N, R10W, Section 21, Tax lot 101 as shown on Figure #11B of the mitigation plan (June 2012).

- 15. **Signs Required:** Signs shall be posted along the mitigation site perimeter stating that the area behind the sign is a protected wetland site at the conservation-in-lieu sites.
- 16. Long-term Protection of the Mitigation Sites Deed Restriction: The mitigation sites shall be protected in perpetuity by recording the Deed Restrictions approved by the Department. There shall be no wetland impacts until the approved Deed Restrictions are recorded with Clatsop County (most were received by the Department August 5, 2009).
- 17. Long-term Maintenance Required (see OAR 141-085-0705(1)(j)): Long-term site maintenance will be provided by the North Coast Land Conservancy unless transferred according to OAR 141-085-0585 (8).
- 18. Long-Term Maintenance Plans: Final Long term Management Plans for all three conservation sites (Skipanon, Sand Creek, and Scott Wetlands) including spreadsheets justifying the amount of endowment, shall be submitted to the Department by May 31, 2018.

### **Monitoring and Reporting Requirements**

- 19. **Post-Construction Report Required:** A post-construction report demonstrating as-built conditions and discussing any variation from the approved plan shall be provided to the Department within 90 days of mitigation site grading. The post-construction report shall include:
  - a. A scaled drawing, accurate to 1-foot elevation, showing the finished contours of the mitigation site.
  - b. A narrative that describes any deviation from the approved mitigation plan.
- 20. **Corrective Action May Be Required:** The Department retains the authority require corrective action in the event the performance standards are not accomplished at any time within the monitoring period.

#### **Performance Standards**

To be deemed successful, the mitigation areas including buffers shall meet the following performance standards, as determined by DSL:

21. **Invasive Species Removal:** *Ilex Aquifolium* and *Hedera helix* are to be sprayed with herbicides and removed at all conservation sites.

### **Financial Security**

22. **Financial Security Required:** A performance bond (financial security) in the amount of \$50,000 has been provided to the Department to ensure completion of compensatory mitigation in accordance with the conditions of this permit. Failure to keep the performance bond continuously in effect through the date of full performance of all the permit holder's obligations hereunder shall constitute a violation and default of this permit by permit holder. At any time the Department, in its sole discretion, may declare permit holder to be in breach of default of its performance obligations under this permit and there upon claim the full unreleased portion of the penal sum of the financial security, which the holder shall pay over to Department within twenty (20) days after delivery of written notice to the holder of such financial security of such breach or default by permit holder.

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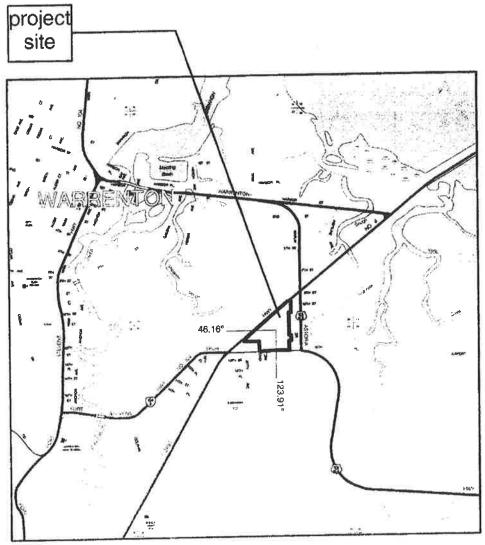
- 23. **Release of the Financial Security:** The permit holder shall file a request with the agency for release of this financial security based on the following:
  - a. 100% release upon approval of the post-construction report for the Skipanon conservation site documenting two large wood placements, riparian plantings, invasive species plant removal and receipt of Final Long-Term Management Plans for all three conservation sites (Skipanon, Sand Creek, and Scott Wetlands) including spreadsheets justifying the amount of endowment.

#### **ATTACHMENT B**

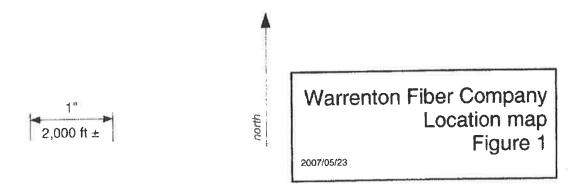
**Permittee: Warrenton Fiber Company** 

Project: Marlin Avenue/Hwy 101 Commercial Development

Maps and Drawings for Removal/Fill Permit No. 38988-FP



base map source: ODOT



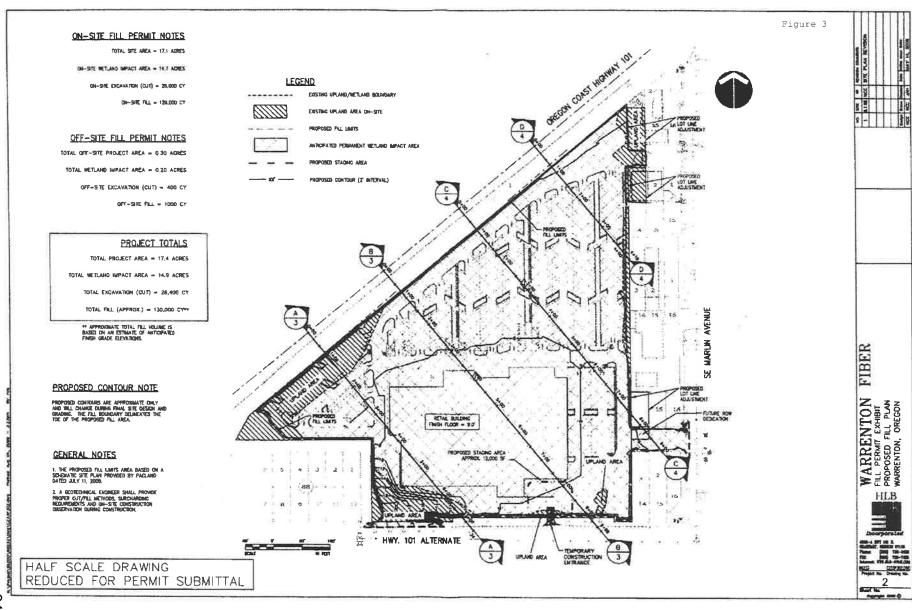


source: GoogleMaps, image © 2007 DigitalGlobe



Warrenton Fiber Company Circa 2005 Aerial Photograph Figure 5a

2007 05 23



# APPENDIX I

Pre-Application Meeting (Roby's Furniture & Appliance, January 20, 2021) Comment Letter, City of Warrenton, February 5, 2021, Scott Hess, Community Development Director



#### February 5, 2021

To: Kyle Langeliers, Roby's Furniture

From: Scott Hess, Community Development Director, City of Warrenton

Copy: Van Wilfinger, Building Official; Colin Stelzig, Public Works Director; Brian Alsbury, Fire Chief

Re: January 20, 2021 Pre-application meeting

This memo outlines information identified during the preapplication meeting with you on Wednesday, January 20, 2021. You can use this memo as a checklist to help assure that your application is complete when submitted. Our comments are based on the discussion on January 20, 2021, and on a preliminary Site Plan and narrative materials provided by you via email on January 4, 2021.

The project is proposed on a portion of Tax Lot 081027AB06400 located near Marlin Ave and the Fort Stevens Hwy Spur. It is our understanding that this is a commercial retail store consisting of approximately 28,000 square feet. The property is zoned is zoned General Commercial (C-1).

This proposal is a permitted use in the General Commercial (C-1) zone, and will require site design review per WMC 212.040. The application will be reviewed via a Type 3 process with a public hearing before the Planning Commission and notice described in WMC 16.208.050. The Community & Economic Development Department performance review time for a Type 3 application from "completeness" to "notice of decision" is 6-8 weeks. Application requirements are listed in WMC 16.216 & 16.220.

Codes referenced below will be used in reviewing the Site Design Review submittal. Staff will ask that you provide a narrative response to the code sections below. Staff can assist with a template for that response if necessary.

#### **Planning/Zoning Comments:**

- 1. <u>Warrenton Municipal Code 16.208.050 Type III Applications</u> provides details needed to satisfy the public notice hearing posting and elements required leading up to Planning Commission
- 2. <u>WMC 16.121.020</u> establishes standards for Site Design review applicability. Commercial buildings greater than 10,000 square feet greater require a Type III review with public notice required per Chapter 16.208.040.
- 3. WMC 16.212.040 explains Site Design elements.
  - a. Street Lights will be required as well as a lighting plan for the site
  - b. Assure that parking lot is lit to increase safety of the rear parking

- 4. Design standards for C-1 Zone can be found in <u>Title 16</u>, <u>Division 3</u>. On initial review, this project will be required to conform with the following:
  - a. <u>Chapter 16.116 Design Standards</u>: Please review the Architectural Design Standards and provide information on how the design the building meets the basic Building Requirements in 16.116.030 C. Note the Building Massing, Materials, and Mechanical equipment requirements.
  - b. Chapter 16.20 Access and Circulation
  - c. Chapter 16.124 Landscaping, Street Trees, Fences, and Walls
    - Chapter 16.124.070 New Landscaping provides information for Landscaping Plans. Basic requirements are 15% of the site shall be landscaped in Commercial Zones
  - d. Chapter 16.128 Vehicle and Bicycle Parking:
    - i. Vehicle Parking Your use falls into the category of "General Retail", and there is also a standard for "Furniture or appliance repair shop". The higher parking number is 1 space per 350 square feet of retail space, and the lower number is 1 space per 750 square feet of floor space.
    - ii. Landscaped parking aisles will count towards your 15% landscape requirement.
    - iii. Bicycle parking Required to provide at minimum 2 spaces with 25% long term and 75% short term. Long term parking must be within a lockable enclosure, a secure room in a building onsite, monitored, or another form of sheltering. Placing the bike rack under an awning in a visible location that does not impede pedestrian flow will meet this requirement.
    - iv. Applicants can request a parking reduction as a Class 1 or Class 2 variance, and must provide a written request and a parking analysis provided by a qualified professional/registered engineer. Review <u>16.128.030.10</u> for more information.
  - e. <u>Chapter 16.144.040 Signs</u>: This reference is direct to the Commercial Sign Requirements can be handled administratively at building permit, but understanding the requirements will be helpful for you now.
  - f. 16.156 Wetland and riparian corridor development standards: Provide documentation of wetland delineation and mitigation done within the overall site development by the current owners. Explain how your project meets those requirements set forth in the State's permit.
  - g. <u>16.192 Large-Scale Developments</u>: This section of code largely refers to other areas, with a key exception of requiring Soil Suitability analysis if needed. It is possible that this work was done with the development of Tractor Supply, and whether it covered the entire site.
- 5. The Planning Commission meets on the second Thursday of each month. Your completed application materials need to be submitted at least **five weeks ahead** of the meeting date.

#### **Building Department Comments:**

- 1. The plans, as provided, are conceptual in nature and contain insufficient information to provide comprehensive Building Department comments at this time.
- 2. Building Department Review and Building Permit submittal are the final step in the Land Use approval process. The project must clear all Planning and Zoning, and Public Works comments prior to submittal for a Building Permit.

#### **Public Works Comments:**

Public Works understands that a new furniture store is proposed on a portion of Tax Lot 081027AB06400. With this information, staff at public works has provided the following items that will need to be addressed in your design and planning documents:

- The developer is required to follow the City of Warrenton Development Standards. These standards can be found in Title 16 of the Warrenton Municipal Code. Please provide documentation showing how this development will meet that standards set forth in the development code. Below is a link to the Development Code http://gcode.us/codes/warrenton/view.php?topic=16&frames=on
- 2. The developer must follow the City's Water and Sewer Regulations. These regulations are included under Title 13 of the Warrenton Municipal Code. Please provide documentation showing how this development will meet that standards set forth in the development code. Below is a link to the Title 13 of our Code: <a href="http://gcode.us/codes/warrenton/view.php?topic=13&frames=on">http://gcode.us/codes/warrenton/view.php?topic=13&frames=on</a>
- 3. The developer is required to follow the Engineering Standards & Design Criteria Manual. Please provide documentation showing how the development meets the standards set forth in this manual. This manual can be found at the <a href="http://www.ci.warrenton.or.us/publicworks/page/engineering-specifications-design-guide">http://www.ci.warrenton.or.us/publicworks/page/engineering-specifications-design-guide</a>
- 4. Sewer services for commercial projects shall be a minimum of 6" diameter.
- 5. Water meter and service connections will be installed by the owner/contractor.
- 6. All commercial property shall have a backflow device at the meter for premise isolation.
- 7. The City will need an easement at meter and vault locations if on private property.
- 8. Sidewalks shall be a minimum of 5 feet wide and shall meet ODOT standards.
- 9. Street lights are required for all new developments. Show proposed street light locations and submit plan to Pacific Power & Light for circuit design.
- 10. Please work with the Fire Chief to determine appropriate Fire hydrant spacing for this development. Developer team is responsible for determining if fire flows are available at this location. This can include hydrant testing and/or water modeling.
- 11. All on-site driveways, parking areas, aisles and turn-a-rounds shall have on-site collection or infiltration of surface waters to eliminate sheet flow of such waters onto public rights-of-way and abutting property. Surface water facility plans shall be prepared by a qualified engineer and constructed in accordance with City standards. Stormwater report shall detail pre and post stormwater conditions, including the adjacent ROWs and flows from existing storm system.
- 12. The City has design standards for refuse enclosures that include the required turning radius and access standard. Current design does not appear to show refuse or recycling services?
- 13. Existing flood elevation are 12' NAVD, Future flood elevations could be near 13' NAVD.

#### **Fire Department Comments:**

Based on the information provided, the Fire Department has the following comments.

#### **ACCESS:**

With plans submitted, it appears that adequate access has been provided. Fire department is requesting that the East end of property (closest to loading dock) that the curb be painted red and labeled "NO PARK1NG-FIRE LANE" every 6 feet, from the Southeast corner to the Northeast corner. Building access with key must be provided, this will be in a Supra Box affixed to the exterior of building next to the

sprinkler riser room. Please see attached page with Supra Box ordering details. Provide and affix to the building-BUILDING INFORMATION SIGN-please read attached appendix J Oregon Fire Code.

#### **WATER SUPPLY:**

Hydrants-Please provide the following information:

Waterflows from hydrants located on the NW and SE property, please see page #2 for a list of vendors that can complete this. Hydrant locations and distance all appear to be in good locations. FDC will be located on the NE comer of property within 15 feet of hydrant (see plans for location). FDC must have locking caps with key. Please see attached for ordering information from KNOX FDC caps.

#### **ADDRESS:**

The address number also be located on the drive isle on the NW corner (front entrance) with numbers that

contrast form the building color and that are no smaller than 6 inches in height.

#### MISC:

Please provide the Fire Dept with water flow and fire flow calcs.

#### **Hydrant Flow Testing:**

Red Hawk Fire Protection 3801 NW Fruit Valley Rd Suite D, Vancouver, WA 98660 (360)984-3712

Wvatt Fire Protection 9095 SW Burnham St, Tigard, OR 97223 (503) 684-2928

Delta Fire, Inc 14795 SW 72nd Ave, Portland, OR 97224 f503) 620-4020

Viking Fire Protection 3245 NW Front Ave, Portland, OR 97210 (503)227-1171

Basic Fire Protection 8135 NE MLK Jr. Blvd, Portland, OR 97211 (503)2850713

#### **Estimated Permit Fees & SDCs**

Grading permits and engineering design are reviewed by a third-party consultant and requires a deposit and direct charge for services. This will be calculated at the time of submittal.

Site Design Review: Planning Commission 25001-30000sqft

\$ 1750

Variance (if desired for parking reduction):

\$ 500 Class 1 or

\$ 1250 Class 2

#### **Systems Development Charge:**

The City will collect systems development charges when building permits are issued. Below is an estimate based on the submitted plan set:

SDC	Co	st	Factor	Cost		
Water Meter	\$	3,296.00	1" meter	\$	3296.00	
Wastewater	\$	3,294.00	1" meter	\$	3294.00	
Storm Water	\$	157.00	(factor)	\$		
Transportation			(trip gen)			
Per PHPT	\$	527.22		\$		
Parks	\$	0.00		\$		
			TOTAL	\$		

<sup>\*</sup>You have indicated that your store is approximately 28,000 square feet with 23,000 of that being used for general retail space. In order to best calculate your SDC fee, I would like to confer with my City Engineer and Public Works Director on the Storm Water factor and Trip Generation factor rather than provide an incorrect estimate in this Pre-App memo. I will follow-up with additional information.

Final SDCs will be calculated per approved plans at building permit issuance.

### Please use this letter as a checklist for your land use submittal.

If you have any questions about the requirements or any City related issues, please contact Scott Hess at <a href="mailto:shess@ci.warrenton.or.us">shess@ci.warrenton.or.us</a> or 503-861-0920.

# APPENDIX K

Pre-Application Meeting (Roby's Furniture & Appliance, January 20, 2021) Comment Memorandum, Warrenton Fire Department, February 5, 2021, Brian Alsbury, Fire Chief



# **Warrenton Fire Department**

P.O. Box 250 Warrenton, OR 97146-0250 ( 5 0 3 ) 861-2494 Fax503/861-2351 225 S. Mein Warrenton, Or 97146-0250

# **MEMORANDUM**

To: Scott Hess, Community Development Director

Date: February 5, 2021

From: Brian Alsbury, Fire Chief

Re: Roby's Furniture and Appliance

Based on the information provided, the Fire Department has the following comments.

#### **ACCESS:**

With plans submitted, it appears that adequate access has been provided. Fire department is requesting that the East end of property (closest to loading dock) that the curb be painted red and labeled "NO PARKING-FIRE LANE" every 6 feet, from the Southeast corner to the Northeast corner. Building access with key must be provided, this will be in a Supra Box affixed to the exterior of building next to the sprinkler riser room. Please see attached page with Supra Box ordering details. Provide and affix to the building-BUILDING INFORMATION SIGN-please read attached appendix J Oregon Fire Code.

#### WATER SUPPLY:

Hydrants-Please provide the following information:

Waterflows from hydrants located on the NW and SE property, please see page #2 for a list of vendors that can complete this. Hydrant locations and distance all appear to be in good locations. FDC will be located on the NE corner of property within 15 feet of hydrant (see plans for location). FDC must have locking caps with key. Please see attached for ordering information from KNOX FDC caps.

### **ADDRESS:**

The address number also be located on the drive isle on the NW corner (front entrance) with numbers that contrast form the building color and that are no smaller than 6 inches in height.

#### MISC:

Please provide the Fire Dept with water flow and fire flow calcs.

### -Hydrant Flow Testing-

Red Hawk Fire Protection 3801 NW Fruit Valley Rd Suite D, Vancouver, WA 98660 (360) 984-3712

Wyatt Fire Protection 9095 SW Burnham St, Tigard, OR 97223 (503) 684-2928

<u>Delta Fire, Inc</u> 14795 SW 72nd Ave, Portland, OR 97224 (503) 620-4020

Viking Fire Protection 3245 NW Front Ave, Portland, OR 97210 (503) 227-1171

Basic Fire Protection 8135 NE MLK Jr. Blvd, Portland, OR 97211 (503) 285 0713



# Rapid Entry System Order Form

# This form must be filled out completely or your order will be delayed.

1. Orders must be prepaid.

City/State/Zip:

County:

Attantiani

- 2 Fill in your hilling and shinning address
- 4. Submit order via: Fax: 800.547.2111

Email: aleiandra gatica@kiddeus com

	ide Sales come with black polyester textured pow hrough-wall mounting kits are recommended for r		QTY.	PRICE	TOTAL
00.4.000		SupraSafe 2HS		\$194.00	
SupraSafe 2HS Heavy Duty — 1/4" steel walks & door 5"H x 4"W x 3-1/4"D	SupraSale 2HS/TS Tamper switch connects to building alarm		\$234.00		
	SupraSafe 2HS/TS through-wall mounting kit		\$14.00		
SupraSafe 2HSR Heavy Duty — 1/4" steel walls & door 5"H x 4"W x 3-1/4"D with 7" x 7" flange	SupraSafe 2HSR		\$234.00		
	SupraSafe 2HSR/TS Tamper switch connects to building alarm		\$274.00		
	O II A T II A O - 1/7 D WILLI A 7 Honge	SupraSale 2HSR/TS (recessed mounting kit for masonry or concrete walls)		\$69.00	
	SupraSafe 1 (1 to 2 keys only)	SupraSafe 1		\$147.00	
	1/8" steel-walls & door Tamper switch not available on this model. 3"H x 4"W-x 2"D	SupraSafe 1 through-wall mounting kit		\$14.00	
	Supra Max (for residential use only)	Supra Max with door mount hanger		\$90.00	
Durable zinc alloy construction	Supra Max wall mount		\$79.00		
DESCRIPTION OF THE PERSON OF T	3-5/8"H x 4-5/8"W x 2-1/8"D	Supra Max through-wall mounting kit		\$19.00	
	Accessories: Additional fire alert decals (one	provided with every lock box)		\$2.00	
ire Denartment F	Rapid Entry Systems Ordering Instructions	Subtotal			
1. All Lock Boxes are shipped without keys, Contact the Fire Department for information concerning keys and lockup. Mounting Instructions for Lock Boxes Included with your order. Allow approximately 2-3 weeks for delivery.  2. Please contact your fire department for specific instructions on where to mount the Lock Box.		Processing & Handling: 1 unit \$10 * 2-4 units \$20 * 5-8 units \$40 9-12 units \$60 * 13 or more \$110			
		Add state and local sales tax for ship-to address (If tax-exempt, must include Tax Exempt Form or Resate cert.)			
		Grand total			
ogietorod Fir	e Department information:	Prices are subject to change and are val	id as of A	ugust 1st, 20	14.
ept. Name: Wa	oriente On 97/46	If Paying by credit card see below: Would you like us to call you for credit ca	rd inform	ation?Y/	N
Dept. System Code: Phone Number  Authorized Signature: Payment: VISA MasterCard AMEX  (May be required, check with Eiro Department)  Credit Card #					
Ship to:		Expires Signature			
•		Today's Date Print Name			
mpany/Name: _	1, 2 1 2 main 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	If paying by check, please attach to order			
Physical Street Address:		Melos payable to Kidde Safety. Mail to: Kidde Safety. PO Box 90370 Chicago, IL 60696-0370			

Credit card billing address:

Company / Name: \_ Physical Street Address:\_\_\_

City/State/Zip:\_

356

# Rapid Entry System

# Instant fire department access without damaging the door or building

The Rapid Entry System is designed to help fire departments and businesses work together to preserve lives and property. It eliminates the need for fire department officials to maintain and carry cumbersome key rings with hundreds of building keys.

#### Here's how the Rapid Entry System works:

- The building owner purchases the Lock Box of his choice and mounts it securely near the entrance. Fire department officials lock the building keys in the Lock Box.
- To ensure absolute security, Kidde has developed a flexible program for shipping Lock Boxes directly to building owners. Special security keys are supplied only to authorized fire department officials.
- 3. When a fire alarm sounds at night or on the weekend, the fire department has instant access to the building. Access is fast, easy and safe without the need for the building owner or tenant to drive to the site after hours.

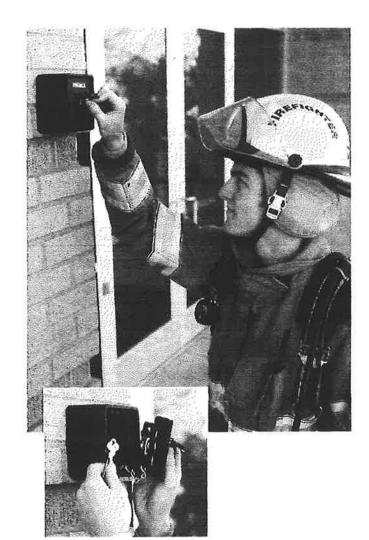
#### Kidde — a name you can trust:

Safe and secure. Keys that open the Lock Boxes are provided exclusively by Kidde. Our SupraSafe 2 High Security units are UL certified antitheft devices. All SupraSafes are steel construction with locking systems designed to withstand attack. Optional tamper switches can be integrated with a building's alarm system.

The SupraSafe line offers a variety of sizes, styles and features. Building owners can custom-tailor a Rapid Entry System to meet their needs.

Toll-free product support. You have the resources of the world's largest lock box manufacturer and the backing of Kidde.

Help make it safer for the fire department to protect property and reduce injuries; avoid the expense of replacing a costly door or window due to unnecessary forced entry.



Costly damage of forced entry is eliminated when building keys are stored securely near entrances.



J101.1.4 Sign size and lettering. The minimum size of the building information sign and lettering shall be in accordance with the following:

- 1. The width and height shall be 6 inches by 6 inches (152 mm by 152 mm).
- The height or width of each Maltese cross wing area shall be 1<sup>1</sup>/<sub>8</sub> inches (29 mm) and have a stroke width of <sup>1</sup>/<sub>2</sub> inch (13 mm).
- The center of the Maltese cross, a circle or oval, shall be 3 inches (76 mm) in diameter and have a stroke width of 1/2 inch (6 mm).
- All Roman numerals and alphabetic designations, shall be 1<sup>1</sup>/<sub>4</sub> inch (32 mm) height and have a stroke width of <sup>1</sup>/<sub>4</sub> inch (6 mm).

J101.2 Sign designations. Designations shall be made based upon the construction type, content, hazard, fire protection systems, life safety and occupancy. Where multiple designations occur within a classification category, the designation used shall be based on the greatest potential risk.

J101.3 Construction type (top wing). The construction types shall be designated by assigning the appropriate Roman numeral, and letter, placed inside the top wing of the Maltese cross. The hourly rating provided is for the structural framing in accordance with Table 601 of the International Building Code,

CONSTRUCTION TYPE	FIRE-RESISTANCE RATING
1ANoncombustible	3 Нонгя
IB—Noncombustible	2 Hours
IIA—Noncombustible	1 Hour
IIB—Noncombustible	O Hours
IIIA—Noncombustible/combustible	1 Hour
IIIB—Noncombustible/combustible	0 Hours
IV—Heavy timber (HT)	HT
VA—Combustible	1 Hour
VB—Combustible	0 Hours

J101.4 Fire protection systems (right wing). The fire protection system shall be designated by determining its level of protection and assigning the appropriate designation to the right wing of the Maltese cross. Where multiple systems are provided, all shall be listed:

- AS Automatic sprinkler system installed throughout
- DS Dry sprinkler system and designated areas
- FA Fire aların system
- FP Fire pump
- FW Fire wall and designated areas
- PAS Pre-action sprinkler system and designated floor
- PS Partial automatic sprinkler system, and designate floor
- CES Chemical extinguishing system and designated area
- CS Combination sprinkler and standpipe system

- S Standpipe system
- NS No system installed

J101.5 Occupancy type (bottom wing). The occupancy of a building or structure shall be designated in accordance with the occupancy classification found in Section 302.1 of the International Building Code and the corresponding designation shall be placed in the bottom wing of the Maltese cross. When a building or structure contains a mixture of uses and occupancies; all uses and occupancies shall be identified.

- A Assembly
- B Business
- **E** Educational
- F Factory or Industrial
- H High Hazard
- I Institutional
- M Mercantile
- R Residential

J101.6 Hazards of content (left wing). The hazards of building contents shall be designated by one of the following classifications as defined in NFPA 13 and the appropriate designation shall be placed inside the left wing of the Maltese cross:

- LH Light hazard
- MH Moderate hazard
- HH High hazard

J101.7 Tactical considerations (center circle). The center circle shall include the name of the local fire service and when required the letters TC for tactical considerations. When fire fighters conduct preplan operations, a unique situation(s) for tactical considerations shall be identified and the information provided to the fire dispatch communications center to further assist fire fighters in identifying that there is special consideration(s) for this occupancy. Special consideration designations include, but are not limited to:

- 1. Impact-resistant drywall.
- Impact-resistant glazing, such as blast or hurricane-type glass.
- All types of roof and floor structural members including but not limited to post-tension concrete, bar joists, solid wood joists, rafters, trusses, cold-formed galvanized steel, I-joists and I-beams; green roof with vegetation, soil and plants.
- Hazardous materials (explosives, chemicals, plastics, etc.).
- 5. Solar panels and DC electrical energy.
- HVAC system; and smoke management system for pressurization and exhaust methods.
- Other unique characteristic(s) within the building that are ranked according to a potential risk to occupants and fire fighters.

#### APPENDIX J

### BUILDING INFORMATION SIGN

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

#### SECTION J101 GENERAL

J101.1 Scope. New buildings shall have a building information sign(s) that shall comply with Sections J101.1.1 through J101.7. Existing buildings shall be brought into conformance with Sections J101.1 through J101.9 when one of the following occurs:

- The fire department conducts an annual inspection intended to verify compliance with this section, or any required inspection.
- 2. When a change in use or occupancy has occurred.

#### **Exceptions:**

- 1. Group U occupancies.
- 2. One- and (wo-family dwellings.

J101.1.1 Sign location. The building information sign shall be placed at one of the following locations:

- Upon the entry door or sidelight at a minimum height of 42 inches (1067 mm) above the walking surface on the address side of the building or structure.
- 2. Upon the exterior surface of the building or structure on either side of the entry door, not more than than 3 feet (76 mm) from the entrance door, at a minimum

height of 42 inches (1067 mm) above the walking surface on the address side of the building or structure.

- Conspicuously placed inside an enclosed entrance lobby, on any vertical surface within 10 feet (254 mm) of the entrance door at a minimum height of 42 inches (1067 mm) above the walking surface.
- 4. Inside the building's fire command center.
- On the exterior of the fire alarm control unit or on the wall immediately adjacent to the fire alarm control unit door where the alarm panel is located in the enclosed main lobby.

J101.1.2 Sign features. The building information sign shall consist of:

- 1. White reflective background with red letters;
- 2. Durable material;
- Numerals shall be Roman or Latin numerals, as required, or alphabet letters; and
- Permanently affixed to the building or structure in an approved manner.

J101.1.3 Sign shape. The building information sign shall be a Maltese cross as shown in Figure J101.1.3

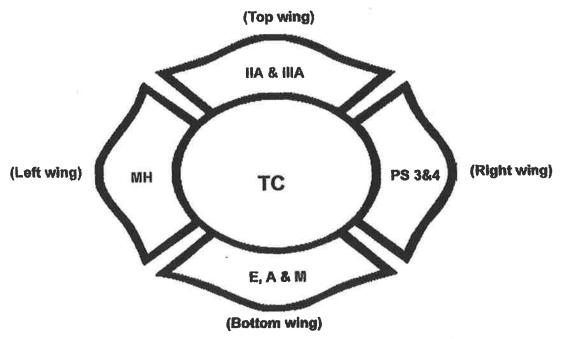


FIGURE J101.1.3
EXAMPLE OF COMPLETED BUILDING INFORMATION SIGN

# APPENDIX L

Reduced Sized Drawings (11" X 17")

### CIVIL DRAWING INDEX

- C1.0 COVER SHEET
  C2.0 GENERAL PROJECT NOTES & ABBREVIATIONS
  C3.0 STANDARD CITY OF WARRENTON NOTES
  C4.1 COMMERCIAL SITE DESIGN
  C4.1 EXISTING CONDITIONS & TOPOGRAPHY
  C5.0 SITE PRAINAGE & GRADING PLAN
  C6.0 SITE FILL, SURCHARGE, & PRELOADING PLAN
  C6.1 SITE EXCAVATION PLAN
  C6.2 EXCAVATIONISTRUCTURAL FILL/SURCHARGE CROSS SECTIONS & DETAILS
  C6.3 DETAILS RETAINING WALLS & PAVEMENT CROSS-SECTIONS
  C7.0 DRIVE ENTRANCES AND SITE UTILITIES (WATER, SEWER AND CONDUITS)
  C7.1 DETAILS UTILITIES

- C7.0 DRIVE ENTRANCES AND SITE UTILITIES (WATER, SEWER AND CONDI C7.1 DETAILS UTILITIES C8.0 STORE ENTRANCES & ACCESS WAYS C8.1 TRUCK MANEUVERING/TRACKING DIAGRAM C9.0 LANDSCAPING & LIGHTING PLAN C10.0 DETAILS WATER SERVICE, DOMESTIC AND FIRE C11.0 STORMWATER DRANGE-PLAN & PROFILES C11.1 DETAILS STORMWATER WATER QUALITY TREATMENT FACILITIES
- C12.0 DETAILS ROADS/SIDEWALKS & CURBS C13.0 DETAILS - ADA SIDEWALK & CURB RAMPS

**GENERAL NOTES:** 

REFERENCE DATUM: STATION INDEX ID: PID SC0559'

DATUM: NAVD 88 ELEVATION: 8.36 FT

C14.0ESCP - COVER C14.1ESCP - GENERAL NOTES C14.2ESCP - PHASE I& II C14.2ESCP - BUILDING CONSTRUCTIONC14.4 ESCP - ODOT DETAILS

NORTH SIDE OF HIGHWAY 101 ALTERNATE.

LOCATION: BETWEEN HIGHWAY 101 & MARLIN AVE. ON NORTH SIDE OF ALT. HIGHWAY 101. T.C. #81027 AB06900, T8N, R10W, SECTION 27

4. SITE ZONING: COMMERCIAL, C-1

LATITUDE 46.153934, LONGITUDE -123.906084

### STRUCTURAL DRAWING INDEX

- \$1.0 SITE PLAN
  \$2.0 SITE SURCHARGE PRELOADING PLAN
  \$3.0 FOUNDATION PLAN
  \$3.0 FOUNDATION PLAN
  \$5.0 ROOF PLAN & ROOF DIAPHRAGM SCHEMATIC
  \$6.0 EXTERIOR ELEVATIONS
  \$7.0 BUILDING SECTIONS & WEST WALL FRAMING
  \$8.0 FOUNDATION FRAMING SECTIONS & DETAILS
  \$9.0 FOUNDATION & FRAMING DETAILS
- SUBMITTED SEPARATELY

PROPOSED DEVELOPMENT: COMMERCIAL/RETIAL STORE, HOME FURNITURE & APPLIANCES GENERAL LOCATION: WARRENTON, OREGON BETWEEN HIGHWAY 101 AND MARLINE AVE ON

PROPOSED BUILDING: 27,500 SQ. FT FABRICATED STEEL STRUCTURE WITH WOOD SIDING &

# **ROBY'S FURNITURE**

WARRENTON, OREGON



STRICKER Engineering

CITY OF WARRENTON ATTN: COLLIN STELZIG PUBLIC WORKS DIRECTOR 45 SW 2ND STREET WARRENTON OREGON 97146 503-861-0917

WATER & SANITARY SEWER
CITY OF WARRENTON ATTN: COLLIN STELZIG PUBLIC WORKS DIRECTOR 45 SW 2ND STREET
WARRENTON OREGON 97146
503-861-0917

ELECTRICITY
PACIFIC POWER
ATTN: MARILYN BROCKEY 2340 SE DOLPHIN WARRENTON OREGON 97146 503-861-6005

CABLE TELEVISION
CHARTER SPECTRUM COMMUNICATIONS
ATTH: VINNY BILLECI
419 GATEWAY AVENUE
ASTORIA OREGON 97103
503-338-7710

GAS NW NATURAL GAS ATTN: RICH GIRARD 220 NW 2ND AVE PORTLAND OREGON 97209 503-226-4211 EXT. 2980 503-281-6169 (CELL)

TELEPHONE CENTURY LINK ATTN: MIKE MEISNER 481 INDUSTRY ASTORIA OREGON 97103 503-242-7676



### UTILITY PROVIDERS: PROJECT TEAM:

WARRENTON PROPERTY INVESTMENTS, LEC 5111 N. COAST HIGHWAY, NEWPORT, OR 97365 CONTACT: KYLE LANGLIERS, REGIONAL MANAGER PHONE: (503) 812-8267

PROJECT ENGINEER: STRICKER ENGINEERING PO BOX 366 GARIBALDI, OR 97118 CONTACT: JOHN DOYLE, PRESIDENT PHONE: (503) 322-2442

CIVIL DESIGN:
YOUNGS RIVER ENGINEERING, LLC
91290 YOUNGS RIVER RD. ASTORIA, OR 97103
CONTACT: GEOFFREY LILJENWALL, P.E.
PHONE: (503) 791-3010

12220 113TH AVE. STE 130. KIRKLAND. WA 98034 CONTACT: JOHN SADLER, SENIOR ENGINEERING GEOLOGIST THEODORE SCHEPPER, P.E., PRINCIPAL

ENVIRONMENTAL CONSULTANT: BRIDGEWATER GROUP COMMERCE PLAZA, SUITE 235, 7100 HAMPTON ST. TIGARD, OR 97223 CONTACT: JUSTIN POUNDS, RG PHONE: (503) 675-5252

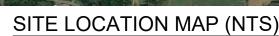
CONSTRUCTION CONTRACTOR (SITE WORK): BIG RIVER CONSTRUCTION, INC. 35064 HIGHWAY 101 BUSINESS ASTORIA, OR 97103 CONTACT: PHIL GAFFNEY PHONE: (503) 338-3878















SITE VICINITY MAP (NTS)

FURNITURI

**ROBY'S** COVER (

CALE: AS SHOWN OB N.O: 2012211249

Drawing N.O:

361

## **ABBREVIATIONS**

ABAN(D) POINT OF CURVATURE ABANDON(ED APPROX **APPROXIMATELY** PFRP PERPENDICULAR APPVD PROPERTY LINE **APPROVED** AMERICAN WATER WORKS ASSOCIATION POC **AWWA** POINT OF CURVATURE POT POINT OF TANGENCY BCR PROF BEGIN CURB RETURN PROPOSED

POINT OF TANGENCY

ROAD

REDUCER

ROADWAY

REQUIRED

SCHEDULE

SHEET(S)

SI OPF

SQUARE

SERVICE

STATION

STANDARD

SIDEWALK

TELEPHONE

**TEMPORARY** 

**THICKNESS** 

**THROUGH** 

**TYPICAL** 

VERTICAL

WATER

WITH

**DETAIL DESIGNATION** 

NOTE DESIGNATION

1. DESIGNATION NUMBER CALLS OUT NOTES ON CURRENT

2 NOTES ARE NOT INTERCHANGEARI E RETWEEN SHEETS

NOTE DESIGNATION

WITHIN

WITHOUT

VERTICAL CURVE

WATER SERVICE

DETAIL DESIGNATION

**RIGHT** 

RESTRAIN(ED)

RIGHT OF WAY

STORM DRAIN

SPECIFICATIONS

SANITARY SEWER

STAINLESS STEEL

SANITARY SEWER CLEAN OUT

SANITARY SEWER MANHOLE

SQUARE FEET

**RCP** 

RD

**RDCR** 

RDWY

RFINE

RESTR

REQ'D

SCHED

**SDMH** 

SHT(S)

SPECS

SO FT

SRVC

ssco

SSMH

SST

STA

STI

STD

S/W

T, TEL

TEMP

THK

THRU

TYP

**VERT** 

VC

W

W/

W/IN

W/O

WSVC

CX.X

SQ

SS

R/W

SD

POLYVINYLE CHLORIDE

POINT OF VERTICAL INTERSECTION

REINFORCED CONCRETE PIPE

REINFORCE(D)(IN)(MENT)

STORM DRAIN MANHOLE

BFILL BACKELL PT BLDG BUILDING **PVC** BRK PVI

BVC BEGIN VERTICAL CURVE **BVCE** BEGINNING VERTICAL CURVE ELEVATION **BVCS** BEGINNING VERTICAL CURVE STATION

CENTER LINE СВ CATCH BASIN

CONTROLLED DENSITY FILL CDF

CI CAST IRON CL CLASS CLR CLEARANCE CONC CONCRETE CONST CONSTRUCTION COORD COORDINATE CR **CRUSHED ROCK** CSP CONCRETE SEWER PIPE

CY CUBIC YARD CU COPPER DET

BTM

DI **DUCTILE IRON** DIA DIAMETER DIM DIMENSION DWG DRAWING DWY DRIVEWAY

EΑ EACH **ECR** END CURB RETURN EL/ELE\ **ELEVATION** EOP END OF PAVEMENT EQ **EQUAL** 

EVC END VERTICAL CURVE **EVCE** END VERTICAL CURVE ELEVATION **EVCS** END VERTICAL CURVE STATION

**EXISTING** EXISTING GRADE

FΩ FIBER OPTIC FLG **FLANGE** 

GAS GALV GAI VANIZED GEN GENERAL GR **GRAVEL** G۷ GATE VALVE

HP HIGH POINT HWY HIGHWAY

INVERT ELEVATION INSTL INSTALL

JT(S) JOINT(S) LENGTH LOC LOCATION

LINEAR FOOT LP LOW POINT LT

LVC LENGTH OF VERTICAL CURVE

MATL(S) MATERIAL(S) MAX MAXIMUM MECH MECHANICAL MFR MANUFACTURER МН MANHOLE MIN MINIMUM MJ MECHANICAL JOINT

NTS NOT TO SCALE

NIC NOT IN CONTRACT OC ON CENTER OD

**OUTSIDE DIAMETER** ODOT OREGON DEPARTMENT OF TRANSPORTATION

# **GENERAL NOTES**

ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF WARRENTON AND THE 2021 OREGON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION INCLUDING SUPPLEMENTS. IN THE EVENT OF A CONFLICT BETWEEN WARRENTON POLICIES AND REGULATIONS AND THE OREGON STANDARD SPECIFICATIONS, THE MORE STRINGENT SHALL CONTROL UNLESS OTHERWISE DIRECTED BY THE CITY OF WARRENTON.

CONTRACTOR SHALL NOTIFY THE CITY AND ALL UTILITY COMPANIES A MINIMUM OF 72 BUSINESS HOURS (3 BUSINESS DAYS) PRIOR TO THE START OF CONSTRUCTION OR RESUMING WORK AFTER SHUTDOWNS EXCEPT FOR NORMAL RESUMPTION OF WORK AFTER SUNDAYS OR HOLIDAYS. CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF ORS 757.541 TO 757.571.

CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DRAWINGS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND PROVIDE A COMPLETED PROJECT

CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES PRIOR TO THE START OF CONSTRUCTION.

CONTRACTOR SHALL PROVIDE ALL BONDS AND INSURANCE REQUIRED BY PUBLIC OR PRIVATE AGENCIES HAVING JURISDICTION. INCLUDING THE CITY OF

UNLESS OTHERWISE APPROVED BY THE CITY OF WARRENTON, CONSTRUCTION OF IMPROVEMENTS SHALL BE DONE BETWEEN 7:00 A.M. AND 6:00 P.M., MONDAY

ANY INSPECTION BY CITY STAFF SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND AGENCY REQUIREMENTS. THE CONTRACTOR SHALL MAINTAIN ONE COMPLETE SET OF APPROVED DRAWINGS ON THE CONSTRUCTION SITE AT ALL TIMES WHEREON HE WILL RECORD ANY APPROVED DEVIATIONS IN CONSTRUCTION FROM THE APPROVED DRAWINGS, AS WELL AS THE STATION LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES ENCOUNTERED. THESE FIELD RECORD DRAWINGS SHALL BE KEPT UP

SUBMITTALS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION IN ACCORDANCE WITH CITY

TO DATE AT ALL TIMES AND SHALL BE AVAILABLE FOR INSPECTION BY THE CITY

MAINTENANCE BOND--CONTRACTOR SHALL SUBMIT A SUITABLE MAINTENANCE BOND PRIOR TO FINAL PAYMENT WHERE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION.

"CITY" REFERS TO CITY OF WARRENTON, OREGON.

EXISTING CONDITIONS--CONTRACTOR SHALL VERIFY EXISTING PROJECT SITE CONDITIONS RELATIVE TO PROPROSED IMPROVEMENT DESIGNS AND REPRESENTATIONS SHOWN ON THE PLANS. CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER OR CITY OF ANY DISCREPENCIES. CONFLICTS OR UNCERTAINTIES THAT MAY EFFECT THE WORK. CONTRACTOR SHALL NOT PROCEED WITH ANY WORK IN QUESTION UNTIL APPROPRIATE CLARIFICATIONS HAVE BEEN MADE BY THE ENGINEER OR THE CITY. DOING SO SHALL BE AT THE CONTRACTOR'S OWN RISK AND COST SHOULD RE-WORK OR CORRECTIONS BE

APPLICABLE STANDARDS--ALL WORK IN PUBLIC RIGHTS-OF-WAY SHALL BE COMPLETED IN FULL ACCORDANCE WITH ALL CURRENT CITY STANDARDS. HEREIN REFERENCED OREGON STANDARDS AND OTHER APPLICABLE INDUSTRY STANDARDS, INCLUDING BUT NOT LIMITED TO: AWWA, APWA, ASTM, IBC, UPC, AASHTO, DOT-MUTCD AND IFC.

GEOTECHNICAL ENGINEERING REPORT--A SITE SPECIFIC GEOTECHNICAL ENGINEERING REPORT HAS BEEN COMPLETED FOR THE PROJECT: "GEOTECHNICAL REPORT, ROBY'S FURNITURE, FORT STEVENS HIGHWAY (HWY 101 BUSINESS) AND SE MARLIN DRIVE, WARRENTON, OREGON, BY TERRA ASSOCIATES, INC., APRIL 12, 2021. THE CONTRACTOR SHALL MAINTAIN A COPY OF THIS REPORT ON THE PROJECT SITE AT ALL TIMES. THE RECOMMENDATIONS OF THIS REPORT HAVE BEEN INCORPORATED INTO THE PROJECT'S DESIGNS AND THE CONTRACTOR IS REQUIRED TO FAMILIARLIZE THEMSELVES WITH THE INFORMATION, ANALYSIS, FINDINGS AND RECOMMENDATIONS PRESENTED THEREIN. THE PROVISIONS OF THIS REPORT THAT RELATE TO EXPECTED CONSTRUCTION ACTIVITIES. PROCEDURES AND TECHNIQUES SHALL BE ACCEPTED AS APPLICABLE SPECIFICATIONS AS IF INCORPORATED DIRECTLY

ON-SITE GEOTECHNICAL TESTING--THE CONTRACTOR SHALL PROVIDE ALL FIELD TESTING RECOMMENDED TO CONFIRM SUITABLE FOUNDATION CONDITIONS. AND SHALL CONDUCT POTHOLING IN THE PRESENCE OF THE GEOTECHNICAL ENGINEER. TO DETERMINE THE SUITABILITY OF EXISTING ROCK FILL TO SERVE AS STRUCTURAL FILL. THE HEREIN REFERENCED GEOTECHNICAL REPORTING RECOMMENDATIONS RELATED TO EXCAVATION, STRUCTURAL FILL PLACEMENT AND SURCHARGE MATERIAL PLACEMENT AND MONITORING, SHALL BE CONSIDERED AS PROJECT TECHNICAL SPECIFICATIONS IN FULL EFFECT AS PART OF PROJECT DESIGNS REPRESENTED IN THESE PLANS.

COMPACTION TESTING--THE CONTRACTOR SHALL COORDINATE GEOTECHNICAL SERVICES FOR SITE BASELINES, FACILITIES LAYOUTS AND MONITORING OF SURCHARGE SETTLEMENT. ONLY AFTER THE GEOTECHNICAL ENGINEER HAS CONFIRMED IN WRITING, THAT REQUIRED SITE SURCHARGING/PRELOADING IS COMPLETE, SHALL SURFACE CONSTRUCTION PROCEED. INITIAL GEOTECHINCAL TESTING SHALL BE AT THE DEVELOPER'S EXPENSE. THE COST OF ANY NEEDED RETESTING DUE TO INSUFFICIENT COMPACTION EFFORT, SHALL BE BORN BY THE CONTRACTOR.

17. HIGH GROUND WATER AND FLOOD POTENTIAL--THE PROJECT SITE CURRENTLY LIES BELOW THE MAPPED FEMA FLOOD HAZARD ELEVATION OF 12.0 FEET. THUS, THE SITE IS AT RISK OF FLOODING DURING CONSTRUCTION. THE FIRST PHASES OF THE WORK INCLUDE OVER-EXCAVATION FOR FOUNDATIONS AND THE PLACEMENT OF COMPACTED STRUCTURAL FILL AND SURCHARGE MATERIAL. SITE FINISH GRADES WILL LEAVE THE MAJORITY OF THE SITE ABOVE THE 12.0-FT FEMA FLOOD HAZARD ELEVATION, BUT THE EASTERLY PORTION OF THE SITE WILL BE FINISHED AT AN ELEVATION LOWER THAN THE ESTABLISHED FLOOD LEVEL MATCHING EXISTING ADJACENT ROAD GRADES. PER ABOVE REFERENCED SITE GEOTECHNICAL REPORTING, THE CONTRACTOR SHOULD EXPECT TO ENCOUNTER GROUNDWATER AT DEPTHS IN THE RANGE OF 2-3 FEET BELOW CURRENT SURFACE ELEVATIONS

SITE DEWATERING--IT SHALL BE UNDERSTOOD TO BE THE CONTRACTOR'S RESPONSIBILITY TO ANTICIPATE HIGH GROUNDWATER AND POTENTIAL SITE FLOODING CONDITIONS AND PLAN CONSTRUCTION WORK AND OPERATIONS ACCORDINGLY. IN THE EVENT OF SITE FLOODING, THE CONTRACTOR SHALL PROMPTLY STABALIZE THE SITE AND SUSPEND OPERATIONS UNTIL FLOOD WATERS RECEDE AND WORK CAN BE SATISFACTORILY COMPLETED. ALL POTENTIAL DEWATERING MEASURES REQUIRED TO COMPLETE THE WORK SHALL BE UNDERSTOOD TO BE THE CONTRACTOR'S RESPONSIBILITY.

FXISTING GRADES--DESIGNS FOR NEW SIDEWALKS AND DRIVEWAYS ARE INTENDED TO MATCH EXISTING SIDEWALK AND STREET GRADES. IN COMPLETING THE WORK, THE CONTRACTOR SHALL MAKE ALL EFFORTS NECESSARY TO MATCH EXISTING GRADES AND ACHIEVE SMOOTH AND SEAMLESS TRANSITIONS BETWEEN NEW AND EXISTING WORK TO THE EXTENT PRACTICABLE.

SURFACE RESTORATION--EXISTING SIDEWALKS AND STREETS SURROUNDING THE SITE WERE RECENTLY CONSTRUCTED AND ARE IN NEW CONDITION. THE CONTRACTOR SHALL MAKE APPROPRIATE EFFORTS TO PROTECT EXISTING SURFACES AND SHALL BE RESPONSIBLE FOR REPLACEMENT AND/OR RESTORATION OF ANY DAMAGE RESULTANT FROM THE WORK.

EXISTING SIDEWALKS--TEMPORARY CONCRETE "ECO-BLOCK" RETAINING WALLS ARE PLANNED TO RETAIN STRUCTURAL FILL AND SURCHARGE MATERIAL AROUND THE NORTH AND WEST SIDES OF THE NEW BUILDING AREA. THESE WALLS WILL BE SITUATED IMMEDIATELY ADJACENT TO EXISTING SIDEWALKS AND BECAUSE THE PURPOSE OF THE SURCHARGING IS TO FORCEABLY COMPRESS AND PRE-CONSOLIDATE SUBSURFACE SOILS, SOME SETTLEMENT OF THE SIDEWALKS ARE ANTICIPATED. AS PART OF THE WORK THE CONTRACTOR SHALL RESTORE ALL EXISTING SIDEWALKS TO ORIGINAL GRADES, EITHER BY PRESSURE GROUTING TO RAISE GRADE OR BY REPLACEMENT OF DAMAGED SIDEWALKS.

SURFACE DRAINAGE--THE PROJECT'S SITE DRAINAGE AND GRADING PLAN DESIGN IS INTENDED TO PROVIDE POSITIVE DRAINAGE FROM ALL PAVED SURFACES. THE CONTRACTOR SHALL PERFORM WORK TO ACCOMPLISH THIS OBJECTIVE AND SHALL PROMPTLY NOTIFY THE ENGINEER OF ANY CIRCUMSTANCES THAT MIGHT INTERFERE WITH THIS OBJECTIVE SO THAT APPROPRIATE CORRECTICVE MEASURES MAY BE TAKEN

CONSTRUCTION AREA SIGNAGE--THE CONTRACTOR SHALL PROVIDE AND MAINTAIN APPROPRIATE CONSTRUCTION AREA WARNING SIGNAGE SO AS TO PROTECT PEDESTRIANS AND THE TRAVELING PUBLIC AT ALL TIMES THROUGHOUT

TRAFFIC CONTROL PLAN--THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR CITY AND ODOT APPROVAL BEFORE PROCEEDING WITH THE WORK. THE TRAFFIC CONTROL PLAN SHALL FOLLOW APPLICABLE CITY, ODOT AND MUTC GUIDANCE AND REQUIREMENTS. THE CONTRACTOR SHALL EXECUTE AND MAINTAIN THE APPROVED TRAFFIC CONTROL PLAN DURING ALL ACTIVE PHASES

SPECIFICATIONS FOR STRUCTURAL FILL--IN ACCORDANCE WITH GEOTECHNICAL RECOMMENDATIONS, STRUCTURAL FILL SHALL BE PROVIDED AS FOLLOWS: 100 PERCENT PASSING 6-INCH SIEVE, 75 PERCENT MAXIMUM PASSING NO. 4 SIEVE, 5 PERCENT MAXIMUM PASSING NO. 200 SIEVE. FILL SHALL BE PLACED IN MAXIMUM 12-INCH LIFTS AND COMPACTION SHALL BE 95-PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY ASTM TEST DESIGNATION D-698 (STANDARD PROCTOR). THE MOISTURE CONTENT OF STRUCTURAL FILL AT THE TIME OF COMPACTION SHALL BE WITHIN TWO (2) PERCENT OF OPTIMUM, PER ASTM **STANDARD** 

COMMERCIAL SITE SEWER LATERAL--THE EXISTING SANITARY SEWER STUB-OUT TO THE SITE IS 6-INCHES DIAMETER PER CITY STANDARDS FOR COMMERCIAL SITES. ACCORDINGLY, 6-INCH DIAMETER SEWER SERVICE CONNECTION PIPING SHALL EXTEND FROM THE PROPOSED BUILDING AND CONNECT TO EXISTING

TEMPORARY REROUTING OF DITCH DRAINAGE--DITCH BANK IMPROVEMENT AND BOTTOM REGRADING WORK SHOULD BE PERFORMED DURING DRY-WEATHER CONDITIONS. SEE NPDES DEQ 1200-C PERMIT AND EROSION AND SEDIMENTATION CONTROL PLAN (ESCP) FOR WORK RESTRICTIONS AND REQUIREMENTS. TEMPORARY FLOW DIVERSION PIPING WILL BE REQUIRED FOR REPOUTING OF STORMDRAINAGE FLOW AROUND ACTIVE WORK AREAS. CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND CONFIGURING SUCH FACILITIES AS MAY BEST ACCOMODATE PARTICULAR CONSTRUCTION OPERATIONS.

UTILITY COORDINATION--CONTRACTOR TO COORDINATE ALL UTILITY SERVICE CONNECTIONS WITH NOTED SERVICE PROVIDERS AND COMPLY WITH ALL APPLICABLE AGENCY REQUIREMENTS FOR SERVICE CONNECTION CONSTRUCTION, CONNECTION, TESTING AND START-UP.



STRICKER

ABBREVIATIONS ∞ 9 FURNITURE

**ROBY'S** GENERAL

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# ENGINEERING SERVICES FOR REQUIRED COMPACTION TESTING AND SURVEYING

### **GENERAL NOTES**

- 1. NO PERSON SHALL DO WORK AFFECTING THE PUBLIC RIGHT-OF-WAY WITHOUT FIRST OBTAINING A PERMIT FROM THE PUBLIC WORKS DEPARTMENT, WORK AFFECTING THE RIGHT-OF-WAY INCLUDES, BUT IS NOT LIMITED TO, CONSTRUCTION, RECONSTRUCTION, GRADING, OILING, REPAIR, OPENING OR EXCAVATION OF A SIDEWALK, STREET, CURB, DRIVEWAY, CULVERT OR DITCH IN A PUBLIC RIGHT-OF-WAY BUT DOES NOT INCLUDE THE CONSTRUCTION OF IMPROVEMENTS PERFORMED UNDER CITY CONTRACT.
- 2. CONSTRUCTION SHALL CONFORM TO THE OREGON SPECIFICATIONS AND STANDARD, DRAWINGS FOR CONSTRUCTION AND AS REVISED BY THE CITY OF WARRENTON, ANY CONDITION NOT DESCRIBED IN THE PERMIT SHALL BE PER SUBMITTED PLANS AND TO ALL APPLICABLE REQUIREMENTS OF APWA, AWWA, DEQ, EPA, DSL, AND ODOT CONSTRUCTION STANDARDS
- 3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND ARRANGE FOR THE RELOCATION OF ANY IN CONFLICT WITH THE PROPOSED CONSTRUCTION, THE LOCATIONS DEPTH AND DESCRIPTION OF EXISTING UTILITIES SHOWN WERE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE CITY OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OF THE COMPLETENESS OF SUCH RECORDS, ADDITIONAL UTILITIES MAY EXIST WITHIN THE WORK AREA.
- 4. OREGON LAW REQUIRES THAT THE RULES ADOPTED BY OREGON UTILITY NOTIFICATION CENTER BE FOLLOWED. THOSE RULES ARE SET FORTH IN OAR 952-001-0090. THE CONTRACTOR IS RESPONSIBLE TO CALL 1-800-332-2344 FOR LOCATES PRIOR TO EXCAVATION, ANY DAMAGE TO CITY OR PRIVATE SERVICES SHALL BE REPAIRED BY THE CONTRACTOR WITH OWN REPAIR MATERIALS.
- 5. THE CONTRACTOR SHALL MAKE PROVISIONS TO KEEP ALL EXISTING UTILITIES (INCLUDING NON-LOCATABLE) IN SERVICE AND PROTECT THEM DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE NOTIFICATION OF DAMAGE TO UTILITIES AND THE REPAIR OR REPLACEMENT OF DAMAGED UTILITIES USING MATERIALS AND METHODS APPROVED BY THE UTILITY OWNER. NO SERVICE INTERRUPTIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN AGREEMENT WITH THE UTILITY OWNER/PROVIDER.
- 6. THE CONTRACTOR SHALL POTHOLE AND VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS AND OTHERWISE VERIFY ALL DIMENSIONS AND EXISTING CONSTRUCTION CONDITIONS INDICATED AND OR SHOWN ON THE PLANS, SHOULD ANY ERROR OR INCONSISTENCY EXIST, THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK AFFECTED UNTIL REPORTED TO THE DESIGN ENGINEER FOR CLARIFICATION OR CORRECTION.
- 7. ALL PROJECT ELEMENTS SHALL BE CONSTRUCTED PER APPROVED PROJECT DRAWINGS; SPECIFICATIONS; FEDERAL, STATE AND LOCAL PERMITS; AND PRE-CONSTRUCTION MEETING NOTES.
- 8. THE CONTRACTOR SHALL KEEP AN APPROVED SET OF PLANS ON THE PROJECT SITE AT ALL TIMES.
- 9. ALL DSL. DEQ. ODOT, AND OHA PERMITS, AND REGULATIONS WILL BE THE RESPONSIBILITY OF THE DEVELOPER.
- 10 PROJECT INSPECTION ON PRIVATE PROJECTS IS THE RESPONSIBILITY OF THE DEVELOPER. THE CITY WARRENTON REQUIRES THE DESIGN ENGINEER TO MONITOR CONSTRUCTION STANDARDS AND WORKMANSHIP
- 11 PROJECT PLANS SHALL ALWAYS HAVE AN ENGINEER-OF-RECORD PERFORMING THE FUNCTION OF DESIGN ENGINEER. IF THE DESIGN ENGINEER IS CHANGED DURING THE COURSE OF THE WORK, THE CITY SHALL BE NOTIFIED IN WRITING AND THE WORK SHALL BE STOPPED UNTIL THE REPLACEMENT ENGINEER HAS AGREED TO ACCEPT THE RESPONSIBILITIES OF THE DESIGN ENGINEER. THE NEW DESIGN ENGINEER SHALL PROVIDE WRITTEN NOTICE OF ACCEPTING PROJECT RESPONSIBILITY TO THE CITY WITHIN 72 HOURS OF ACCEPTING THE POSITION AS DESIGN ENGINEER
- 12 INFRASTRUCTURE THROUGH NEIGHBORING PROPERTY IS ALLOWED ONLY WHEN RECORDED ACCESS EASEMENTS ARE GRANTED BY OWNERS, RECORDED EASEMENTS SHALL BE SUBMITTED TO PUBLIC WORKS PRIOR TO THE START OF THE WARRANTY PERIOD.
- 13.SUBDIVISION PROJECTS ARE REQUIRED TO HAVE UTILITY LOCATION PLAN.
- 14.ALL PUBLIC, PRIVATE AND FRANCHISE UTILITIES SHALL BE IN PLACE PRIOR TO PROJECT FINAL APPROVAL AND ACCEPTANCE, E.G. ALL STREET LIGHTS MUST BE IN AND OPERATIONAL
- 15.ALL SURVEY MONUMENTS ON THE PROJECT'S SITE OR THAT MAY BE SUBJECT TO DISTURBANCE WITHIN THE CONSTRUCTION AREA. OR THE CONSTRUCTION OF ANY OFF-SITE IMPROVEMENTS SHALL BE ADEQUATELY REFERENCED AND PROTECTED PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY. IF THE SURVEY MONUMENTS ARE DISTURBED, MOVED, RELOCATED, OR DESTROYED AS A RESULT OF ANY CONSTRUCTION, THE CONTRACTOR SHALL, AT THEIR COST, RETAIN THE SERVICES OF A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF OREGON TO RESTORE THE MONUMENT TO ITS ORIGINAL CONDITION AND FILE THE NECESSARY SURVEYS AS REQUIRED BY OREGON STATE LAW.
- 16,GRADING AND FILL/EXCAVATION PERMITS OR PRIVATE SERVICE PLUMBING PERMITS SHALL BE REQUIRED WHEN WORK IS PERFORMED ON PRIVATE PROPERTY. OWNER, ENGINEER, OR CONTRACTOR MUST CONTACT THE CITY OF WARRENTON PLANNING AND BUILDING DEPARTMENT, PRIOR TO CONSTRUCTION.
- 17.THE CONTRACTOR IS REQUIRED TO METER CONSTRUCTION WATER THROUGH A CITY HYDRANT WATER METER, WATER USED DURING CONSTRUCTION FOR DUST CONTROL OR OTHER PROCEDURES SHALL BE WITH A PERMIT AND FEE, CERTAIN HYDRANTS ARE AVAILABLE, PERMITS FOR CONNECTION AND FLOW ARE REQUIRED FROM THE PUBLIC WORKS DEPARTMENT, AND BACKFLOW DEVICES SHALL BE PRESENT.
- 18.ALL EXISTING STREETS AND SIDEWALKS TO BE CLEANED AND OR PROTECTED DAILY, CITY HAS THE RIGHT TO ENFORCE CLEANING AND SAFETY ISSUES. THE CONTRACTOR CAN BE FINED OR CHARGED FOR PUBLIC WORKS TIME AND MATERIAL. TRENCH EXCAVATION ON EXISTING ROADWAYS NEED TO BE COLD PATCHED AND KEPT SMOOTH WITH EXISTING ASPHALT AT END OF EACH DAY.
- 19, CONTRACTOR SHALL ERECT AND MAINTAIN TEMPORARY TRAFFIC CONTROL PER THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), PART 6, AND DEVIATIONS TO THE MUTCD AS ADOPTED AND MODIFIED BY ODOT. SHOULD WORK BE IN AN EXISTING PUBLIC RIGHT OF WAY THAT IS OPEN TO TRAFFIC. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN WITH ROW PERMIT TO APPROPRIATE CITY, COUNTY, AND STATE PERSONNEL FOR APPROVAL. APPROVALS SHALL BE OBTAINED PRIOR TO START OF WORK.
- 20. ANY INSPECTION BY THE CITY, COUNTY, STATE, FEDERAL AGENCY OR DESIGN ENGINEER SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN COMPLIANCE WITH THE APPLICABLE CODES, REGULATIONS, CITY STANDARDS AND PROJECT CONTRACT DOCUMENTS. TRACER WIRE INSTALLATION SHALL BE PERFORMED IN SUCH A MANNER THAT ALLOWS PROPER ACCESS FOR CONNECTION OF LINE TRACING EQUIPMENT, PROPER LOCATING OF WIRE WITHOUT LOSS OR DETERIORATION OF LOW FREQUENCY SIGNAL, AND WITHOUT DISTORTION OF SIGNAL CAUSED BY MORE THAN ONE WIRE BEING INSTALLED IN CLOSE PROXIMITY TO ONE ANOTHER.
- 21. TRACER WIRE SYSTEMS MUST BE INSTALLED AS A SINGLE CONTINUOUS WIRE, EXCEPT WERE USING APPROVED CONNECTORS, NO LOOPING OR COILING OF WIRE IS ALLOWED, ONE FOOT OF EXCESS/SLACK WIRE IS REQUIRED IN ALL TRACER WIRE ACCESS POINTS AFTER MEETING FINAL ELEVATION.
- 22. ALL NEW TRACER WIRE INSTALLATIONS SHALL BE LOCATED USING TYPICAL LOW FREQUENCY (512 HZ) LINE TRACING EQUIPMENT, WITNESSED BY THE DESIGN ENGINEER OR PUBLIC WORKS DEPARTMENT, PRIOR TO ACCEPTANCE OF OWNERSHIP. THIS VERIFICATION SHALL BE PERFORMED UPON COMPLETION OF ROUGH GRADING AND AGAIN PRIOR TO FINAL ACCEPTANCE OF THE PROJECT
- 23. UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT "REDLINE DRAWINGS" TO DESIGN ENGINEER FOR PREPARATION OF RECORD DRAWINGS. "REDLINE DRAWINGS" DOCUMENT ALL DEVIATIONS AND REVISIONS TO THE APPROVED PLANS; THEY ALSO RECORD A DESCRIPTION OF CONSTRUCTION MATERIALS ACTUALLY USED (PIPE MATERIAL, ETC.), FROM THE INFORMATION CONTAINED ON THESE RED LINE DRAWINGS, AS WELL AS ANY NOTES RECORDED BY THE DESIGN ENGINEER, THE DESIGN ENGINEER SHALL PREPARE AND SUBMIT RECORD DRAWINGS TO PUBLIC WORKS ENGINEERING DEVELOPMENT SERVICES. RECORD DRAWINGS ARE REQUIRED FOR ANY PUBLIC IMPROVEMENTS. CITY ACCEPTANCE OF ANY PUBLIC IMPROVEMENTS ARE TIED TO THE SUBMITTAL OF THESE RECORD DRAWINGS, CAD GENERATED PLANS SHALL ALSO HAVE ELECTRONIC RECORD DRAWINGS SUBMITTED TO THE CITY IN COMPLIANCE WITH THE DIGITAL MAPPING REQUIREMENTS. COMPLY WITH SECTION 2.11 AS BUILT DOCUMENTS OF THE CITY OF WARRENTON ENGINEERING DESIGN STANDARDS.

### SEWER PLAN NOTES

- 1. THE INTERIOR OF THE MANHOLE BASE SHALL BE FORMED SO THE FEEL LIENT ENTERS THE FLOW SMOOTHLY WITH THE SHELF SLOPE NO MORE THAN 1:12. GROUTING SHALL BE SMOOTH WITH NO PROTRUDING SHARP EDGES. GROUTING AROUND PIPE INTRUSIONS INCLUDING SERVICE LATERALS TO BE SMOOTH WITH FLOW CHANNELS TO PREVENT UNCC DROPS.
- 2. MANHOLE, BASE, AND CONE OR FLAT-TOP LIDS SHALL HAVE ONLY MAINLINE TRACER WIRE EXTENDED INTO EACH MANHOLE AND SECURED UNDER THE MANHOLE LID FOR EASY
- 3. NEW 4" ASTM D3034 PVC LATERAL TO CONNECTION ON PUBLIC MAINLINE WITH 4" SANITARY TEE-WYE. CONNECTION IS TO BE INSPECTED BY PUBLIC WORKS AND BUILDING DIVISION.
- 4. THE SEWER LATERALS SHALL BE INSTALLED ENTERING THE SEWER MAIN LINE FROM THE UPPER QUADRANT OF THE PIPE, ANY SEWER LATERAL ENTERING THE PIPE AT THE SPRING LINE MUST HAVE A TEE-WYE SWEEP FITTING INSTALLED. ALL LATERAL CONNECTION(S) ARE TO BE INSPECTED BY PUBLIC WORKS AND BUILDING DEPARTMENTS BEFORE BACKFILLING.
- 5. NEWLY CONSTRUCTED CURBS OR REPLACED CURBS SHALL BE STAMPED WITH THE CAPITOL LETTER 11S\* AT THE LOCATION EACH SANITARY LATERAL CROSSING. LETTERS SHALL BE THREE (3) INCHES IN HEIGHT AND EMBOSSED A MINIMUM OF ONE-QUARTER (1/4) INCH DEEP.
- 6 CONSTRUCT SERVICE SADDLES AT LEAST 24" FROM MANHOLE WALL OR ADJACENT SERVICE
- 7. CONSTRUCT SERVICE LATERAL WITHIN 5' OF THE CENTER OF THE PROPERTY SERVED.
- 8 FACH LATERAL SHALL BE MARKED WITH A GREEN 2"X 4" BURIED AT THE END OF THE PIPE WITH THE GREEN TRACER WIRE SECURED ABOVE GRADE TO THE 2"X4" THE LATERAL SHALL BE PLUGGED WITH A WATERTIGHT PLUG, WHEN CONNECTING NEW LINES TO EXISTING MANHOLES, THE MANHOLE WALL MUST BE CORE DRILLED CLEANLY, SEALED WITH INK-SEALED AND GROUTED OR SEALED WITH A KOR-N-SEAL® BOOT TO PREVENT GROUNDWATER INFLOW AND INFILTRATION, USE OF SAW CUT AND KNOCK OUT BY HAMMER IS PROHIBITED.
- 9, CONTRACTOR IS RESPONSIBLE FOR VACUUM, MANDREL AND TELEVISION TESTING AND INSPECTION REQUIREMENTS, SEE SECTION 4.8 OF THE CITY OF WARRENTON ENGINEERING DESIGN STANDARDS FOR REQUIRED TESTING
- 10. CONTRACTOR SHALL KEEP DOWNSTREAM SANITARY SEWER PIPES AND MANHOLES CLEAN OF CONSTRUCTION DEBRIS, NOTIFICATION TO CLEAN THE SYSTEM MAY BE GIVEN BY THE CITY AT ANY TIME, THE CONTRACTOR IS RESPONSIBLE FOR ALL CLEANING WHICH MAY INCLUDE MANHOLES DOWNSTREAM OF THE PROJECT SCOPE OF WORK.
- 11. ALL MANHOLES LOCATED IN UNIMPROVED EASEMENTS AND RIGHT OF WAYS SHALL BE PROVIDED WITH TAMPER PROOF LIDS, BE INSTALLED TWO FEET (2') ABOVE EXISTING GRADE AND MARKED WITH A GREEN CARSONITE® MARKER POST, LABELED 11SEWER\*
- 12, CONTRACTOR SHALL SUBMIT ACCURATE AS-BUILT STATIONS FOR ALL CONNECTIONS OF SEWER LATERALS AND NOTE THE DISTANCE FROM UPSTREAM MANHOLES, THIS

### STORM PLAN NOTES

- 1, INSTALLATION OF CURB INLETS, FIELD INLETS AND MANHOLES ARE TO CONFORM TO CITY STANDARDS, CONNECTION TO EXISTING PUBLIC SYSTEMS FROM PRIVATE CATCHMENTS SHALL BE AT OR HAVE INSTALLED CURB CATCH BASINS OR AREA INLETS WITHIN THE PUBLIC
- 2, CONSTRUCTION OF INLET/ OUTLET HEADWALL STRUCTURES, RIPRAP BANK STABILIZATION, BIO-FILTER SWALE AND ENERGY DISSIPATION
- 3. INSTALLATION OF STORM WATER DETENTION, FLOW AND POLLUTION CONTROL WATER QUALITY FEATURES PER APPROVED PLANS. BELOW GROUND CULVERTS, BOX, MH OR WET/DRY BASIN ETC.
- 4. CONSTRUCTION OF DRAINAGE DITCH TO APPROVED SLOPE & GRADE, VEGETATION ON SIDE SLOPES FOR EROSION CONTROL.
- 5. ROOF AND GARAGE RUNOFF DRAINAGE SHALL DRAIN TO APPROVED DRAINWAYS. APPROVED DRAINWAYS INCLUDE PUBLIC CURB AND GUTTER STREET SYSTEMS, PIPE SYSTEMS, OR ROADSIDE DITCHES. DRAINAGE GRATES ACROSS A PUBLIC SIDEWALK ARE PROHIBITED.
- 6. EACH LOT MAY HAVE 2 EACH 3" SCHEDULE 40 PVC WEEP HOLES INSTALLED ON EACH SIDE OF THE DRIVEWAY THROUGH THE CURB OR ACCOMMODATE RUNOFF THROUGH EASEMENT TO COLLECTION POINT WITH SPECIAL APPROVAL FROM THE PUBLIC WORKS DEPARTMENT
- 7. CONTRACTOR IS RESPONSIBLE FOR MANDREL AND TELEVISION TESTING AND INSPECTION REQUIREMENTS SEE GENERAL SECTION.
- 8. STORM WATER DETENTION MAY BE REQUIRED. ENGINEERED HYDROLOGY STUDIES ARE REQUIRED PRIOR TO PERMITTING.

### WATER PLAN NOTES

- 1. ONLY CITY OF WARRENTON PERSONNEL MAY OPERATE PUBLIC WATER VALVES ON CITY WATER MAINS, REQUESTS SHALL BE MADE 3 BUSINESS DAYS IN ADVANCE TO PUBLIC WORKS OFFICE: 503 861-0912.
- 2. CONTRACTOR IS RESPONSIBLE TO FLUSH, CLEAN, DISINFECT AND PRESSURE TEST WATER LINES PER AWWA STANDARDS. TESTING IS TO BE PERFORMED BY THE CONTRACTOR AND WITNESSED BY CITY PERSONNEL. TEST SAMPLES TO BE TRANSPORTED TO A LAB APPROVED BY THE CITY, CITY AND DESIGN ENGINEER SHALL RECEIVE COPIES OF TEST REPORTS.
- 3. FIRE HYDRANTS SHALL BE MUELLER SUPER CENTURION 250 MODEL A-423 OR AN APPROVED FOLIAL WITH A RECIRCULATION OF LUBRICATION SYSTEM, FIRE HYDRANT CONNECTIONS TO THE MAINLINE SHALL REQUIRE A PHOTO OF TEE AND ISOLATION VALVE PRIOR TO BACKFILL AND SHALL BE SUBMITTED WITH FINAL DOCUMENTS.
- 4. HYDRANTS ADJACENT TO PAVED STREETS SHALL BE MARKED USING BLUE STIMSONITE® TWO SIDED MARKERS (2-WAY BLUE 88AB) TO BE ATTACHED TO THE ROAD SURFACE WITH THERMOSET 2-PART EPOXY (EP-308 HARDENER PART 8-EP-308 EPOXY RESIN PART A), MARKERS SHALL BE PLACED RIGHT OF CENTERLINE IN THE LANE CLOSEST TO THE HYDRANT. IF THE HYDRANT IS LOCATED ON A CORNER, MARKERS MUST BE ON BOTH STREETS.
- 5. CONTRACTOR SHALL PERFORM A FLOW TEST FOR EACH HYDRANT AND VERIFY HYDRANT OPENING EASE AND LUBRICANT
- 6. CONTRACTOR SHALL PAINT FIRE HYDRANTS TO CITY STANDARD.
- 7. AIR RELEASE AND VALVE ASSEMBLIES SHALL BE AUTOMATIC ONLY.
- 8 ALL WATER VALVES SHALL HAVE VC212 VALVE BOX SELE-CENTERING GLIDES OR FOLIAL
- 9. VALVE BOXES SHALL BE MODEL 910 VANCOUVER STYLE W/MANUFACTURED CAST NOTCHES ALIGNED WITH DIRECTION OF MAIN AND TRAFFIC RATED LID. LABELED "W" OR "WATER" OR EQUAL.
- 10. ALL VALVES SHALL BE OPERATED TO VERIFY VALVE WRENCH TOOL CLEARANCE PRIOR TO FINAL PAVING.
- 11. ALL VALVE BOXES NOT SET IN ASPHALT SHALL HAVE A MINIMUM OF 18" X 18" X 3" THICK CONCRETE PAD WITH VALVE BOX CENTERED.
- 12. RESIDENTIAL SERVICE LINES SHALL HAVE FORD F500-4-NL BRASS ONE-INCH (1") CORPORATION STOP, ONE-INCH (1") MUNICIPEX® WATER SERVICE LINE WITH COMPRESSION FITTINGS, AND A 1"X3/4" LOCKABLE ANGLE STOP USING FORD GRIP RING FITTINGS, ALL SERVICE FITTINGS SHALL BE BRASS, MALE X MALE, IRON PIPE SIZE, AND IRON PIPE THREAD. IF "YX1" ANGLE STOPS ARE INSTALLED, "YX3" ADAPTERS SHALL BE INCLUDED. METER BOXES SHALL BE ARMORCAST® STRAIGHT WALL POLYMER CONCRETE RPM A6000485 (12X20X12) WITH ARMORCAST® ONE-PIECE 20K TRAFFIC-RATED LID.
- 13. CONSTRUCT SERVICE SADDLES AT LEAST 24" FROM MAINLINE END OR AN ADJACENT SERVICE.
- 14 COMMERCIAL PROPERTIES MAKING CONNECTIONS TO THE CITY INFRASTRUCTURE SHALL PROVIDE AND INSTALL MASTER METER ALLEGRO UNDER-THE-GLASS (UTG) OR MASTER METER OCTAVE WATER METERS. THE CITY OF WARRENTON HAS A FCC APPROVED RADIO FREQUENCY IDENTIFICATION THAT IS PROGRAMMED INTO THESE METERS, THE DEVELOPER/CONTRACTOR MUST CONTACT THE CITY AND RECEIVE THE REQUIRED FREQUENCY FOR ORDERING. METER BOXES SHALL BE ARMORCAST STRAIGHT WALL POLYMER CONCRETE WITH ONE-PIECE 20K TRAFFIC RATED LIDS.
- 15. CUSTOMER YARD VALVES (SHUT OFFS) BEHIND THE METER SHALL BE INSTALLED BY THE DEVELOPER ON THE PROPOSED WATER SERVICE AND ARE REQUIRED TO BE IN PLACE PRIOR TO THE ACTIVATION OF THE WATER METER.

### WARRENTON PAVING PLAN NOTES

- ALL EXISTING STREETS AND SIDEWALKS TO BE CLEANED AND OR PROTECTED DAILY, CITY HAS THE RIGHT TO ENFORCE CLEANING AND
  SAFETY ISSUES, IF NOT, THE CONTRACTOR CAN BE FINED OR CHARGED FOR PUBLIC WORKS TIME AND MATERIAL, TRENCH EXCAVATION ON EXISTING ROADWAYS NEED TO BE COLD PATCHED AND KEPT SMOOTH WITH EXISTING ASPHALT AT END OF EACH DAY.
- 2 STANDARD MONOLITHICALLY POURED 6" CLIRR AND 18" GUTTER SECTION SHALL BE CONSTRUCTED SUB-GRADE ASHTO 99 COMPACTION TESTS COMPLETED EVERY ONE HUNDRED FEET WITH TEST REPORTS GIVEN TO PUBLIC WORKS.
- 3. THE FULL STREET SECTION SHALL HAVE A MINIMUM OF 4" ASPHALT CONCRETE IN TWO 2" LIFTS. THE TOP LAYER SHALL BE 12.5 MM (1/2") DENSE MIX FOR THE SURFACE WEARING COURSE WITH THE LOWER LIFT EITHER 19 MM (3/4") DENSE HOT MIX ASPHALT CONCRETE (HMAC) OR 12.5 MM (1/2") DENSE MIX.
- 4 ROADWAY STRUCTURE OF TWELVE INCHES OF 1" OR 3/" 0" INCH COMPACTED BASE ROCK, AN ADDITIONAL 12" LAYER OF 3" COBBLE SUB-BASE WITH GEOTEXTILE LAYER MAY BE USED DURING WET WEATHER OR WINTER CONSTRUCTION PERIODS.
- 5. ALL CUTS IN ASPHALT PAVING, PORTLAND CEMENT PAVING, CONCRETE CURBS, GUTTERS AND SIDEWALKS SHALL BE SAW CUTS AT LEAST THREE INCHES DEEP UNLESS EXCEPTED AS A CONDITION OF THE PERMIT.
- 6. TRENCH COMPACTION OF 1" OR %"-0" BACKFILL IN PUBLIC UTILITIES, STREET SAW OUT AND RESTORATION ARE REQUIRED, TACK COATING AND SAND SEALING OF EDGES OF PAVEMENT CUT IS REQUIRED.
- 7. MAILBOX UNITS MOUNTED IN SIDEWALK SHALL HAVE A SWEEP PROVIDED BEHIND THE OBSTRUCTION SO THAT 4 FEET OF CLEAR PASSING DISTANCE IS MAINTAINED. LOCATION TO BE COORDINATED WITH THE UNITED STATES POST SERVICE OFFICE FOR WARRENTON.
- 8. NEW ADA RAMP WITH TRUNCATED DOMES TEXTURE PATTERN IS REQUIRED ON ALL STREET CORNERS. THE CONTRACTOR SHALL PROVIDE THE PATTERN PANELS FOR THE RAMPS. DAMAGE TO ADA RAMPS OR SIDEWALKS DURING CONSTRUCTION OR BUILDING CONSTRUCTION
- SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR. 9. ALL STREET NAME SIGNS SHALL BE INSTALLED BY CONTRACTOR TO APWA AND CITY STANDARDS. SIGNS POLES MOUNTED IN GRADE, CURBS OR SIDEWALKS HAVE V-LOCK ANCHORS.
- 10. ALL STREET MARKINGS SUCH AS STOP BARS OR CROSSWALKS ETC., SHALL BE INSTALLED BY CONTRACTOR AND BE MADE OF THERMOPI ASTIC MATERIAL PER APWA STANDARDS
- 11. STREETLIGHT POLES AND LUMINARIES SHALL BE INSTALLED PRIOR TO FINAL APPROVAL
- 12. SIDEWALK PORTIONS TO BE (RE)CONSTRUCTED FOR FULL FRONTAGE OR WHERE BROKEN AND MISSING, TWO INCHES OF COMPACTED "3"-0" BASE ROCK UNDER CONCRETE, WITH ½" FIBER BOARD EXPANSION JOINT AT ENDS, DUMMY TOOL CONSTRUCTION JOINTS EVERY 5 FEET ALSO MATCHING SCORE MARKS IN ANY EXISTING ADJACENT CURB AND GUTTER, AN 8-INCH THICKNESS IN COMMERCIAL (6" RESIDENTIAL) DRIVEWAY APRONS IS REQUIRED. ALL SIDEWALK WIDTHS ARE DETERMINED BY THE STREET CLASSIFICATION. THE SIDEWALK SHALL BE A MINIMUM OF FOUR INCHES THICK AND SIX INCHES THICK AT THE DRIVEWAYS. EACH LOT SHALL HAVE A DRIVEWAY APPROACH WITH THREE-FOOT CURB TRANSITIONS WITH SIDEWALK SWEEP AROUND THE BACK OF THE ACCESS PER THE ATTACHED PLAN SET.

### STREET LIGHT PLAN NOTES

- 1. STREET LIGHTS TO BE FIBERGLASS POLES (PROVIDED BY PP & L) WITH HPS 16L-150 WATT AMPS AND INSTALLED ON FOUNDATIONS PER PACIFIC POWER & LIGHT REQUIREMENTS
- 2. DOWNTOWN STREET LIGHTS TO BE DECORATIVE SPECIAL DISTRICT STREET LIGHTS INSTALLED ON CONCRETE FOUNDATIONS.
- 3. ALL STREET LIGHTS TO HAVE INDIVIDUAL PULL BOX (J-BOX), (PROVIDED BY THE UTILITY COMPANY), INSTALLED WITHIN 2 TO 4' FROM THE BASE OF THE POLE AND PER CITY OF TEMPE STANDARD DETAIL T-650.
- ALL STREET LIGHTS TO BE 2' FROM BACK OF CURB WHERE RECESSED OR NO SIDEWALK EXISTS OR 2' BACK OF WALK TO THE FACE OF POLE UNLESS OTHERWISE APPROVED BY CITY
- ALL STREET LIGHT CONDUITS TO BE 2-1/2" PVC SCHEDULE 40.
- STREET LIGHTING IMPROVEMENTS SHALL NOT BE ACCEPTED UNTIL "AS-BUILT" PLANS HAVE BEEN SUBMITTED TO AND APPROVED BY THE PUBLIC WORKS DIVISION. AS BUILT DRAWINGS SHALL CONSIST OF ONE COPY DIGITAL ONE COPY PAPER ONE CD DISC AND RESUBMITTED TO THE CITY PUBLIC WORKS OFFICE WITHIN 30 DAYS OF BEGINNING THE WARRANTY PERIOD

### **EROSION CONTROL NOTES PLAN NOTES**

- 1 ALL SITES SHALL SUBMIT AN EROSION CONTROL PLAN FOR REVIEW REGARDLESS OF SIZE NEW . THE STITLE STIME SUBMIT AN ERUSION CONTROL PLAN FOR REVIEW, REGARDLESS OF SIZE, NEW DEVELOPMENTS IMPACTING AREAS OF 10,000 SQUARE FEET OR GREATER MUST OBTAIN AN EROSION CONTROL PERMIT.
- 2, EROSION CONTROL PLAN SHALL INCLUDE:
- a. THE METHODS AND/OR FACILITIES TO BE USED TO PREVENT EROSION AND POLLUTION CREATED FROM THE DEVELOPMENT BOTH DURING AND AFTER CONSTRUCTION.
- b. LIMITS OF CLEARING BY FLAGGING BOUNDARIES IN THE FIFLD BEFORE STARTING SITE GRADING OR CONSTRUCTION. STAGING AREAS SHALL BE INCLUDED.
- c. AN ANALYSIS OF SOURCE CONTROLS, SUCH AS DETENTION AND STORAGE DURING CONSTRUCTION AS AN ALTERNATIVE METHOD TO CONTROL EROSION FROM STORM WATER RUNOFF
- d. A DRAINAGE PLAN DURING CONSTRUCTION.
- e. SHOW EXISTING CONTOURS AS WELL AS ALL SENSITIVE AREAS, CREEKS, STREAMS, WETLANDS,
- f. A DESCRIPTION OF HISTORIC LOCALIZED FLOODING PROBLEMS RESULTING FROM SURFACE WATER RUNOFF, FEMA OR FLOODING PROBLEMS KNOWN TO THE COMMUNITY OR THE CITY.
- 3. EROSION CONTROL PLAN SHALL INCLUDE A SCHEDULE FOR IMPLEMENTATION OF EROSION MEASURES. THE SCHEDULE SHALL INCLUDE
- a. MEASURES TO COVER BARE SOIL WITHIN 14 DAYS FOLLOWING FINAL GRADING.
- b. IMPLEMENTATION OF WET WEATHER MEASURES BETWEEN OCTOBER 1ST AND APRIL 30TH, UNLESS OTHERWISE APPROVED BY THE CITY.
- c. ON SITES WHERE VEGETATION AND GROUND COVER HAVE BEEN REMOVED, CITY APPROVED GROUND COVER SHALL BE RE-ESTABLISHED BY SEEDING AND MULCHING ON OR BEFORE SEPTEMBER 1ST WITH THE GROUND COVER ESTABLISHED BY OCTOBER 15TH. AS AN ALTERNATIVE TO SEEDING AND MULCHING, OR IF GROUND COVER IS NOT ESTABLISHED BY OCTOBER 15TH, THE OPEN AREAS SHALL BE PROTECTED THROUGH THE WET SEASON WITH STRAW MULCH. EROSION BLANKETS, OR OTHER APPROVED METHODS, WHERE APPROPRIATE, WITH LONG TERM
- d. WATER CONTAINING SEDIMENT SHALL NOT BE DISCHARGED INTO THE SURFACE WATER MANAGEMENT SYSTEM, WETLANDS OR STREAMS WITHOUT FIRST PASSING THROUGH AN APPROVED SEDIMENT FILTERING FACILITY OR DEVICE, DISCHARGE FROM TEMPORARY SEDIMENTATION PONDS OR DETENTION FACILITIES USED FOR SEDIMENTATION DURING CONSTRUCTION SHALL BE CONSTRUCTED TO CITY STANDARDS TO PROVIDE ADEQUATE SEDIMENT FILTRATION.
- 4. A SITE-SPECIFIC PLAN PREPARED BY A REGISTERED PROFESSIONAL ENGINEER SHALL BE REQUIRED AND ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED FOR SITES HAVING ONE OR MORE OF THE FOLLOWING CHARACTERISTICS:
- a. SITES GREATER THAN FIVE (5) ACRES DISTURBED.
- b. SITES WITH SLOPES GREATER THAN 15 PERCENT ON ANY PORTION OF THE SITE.
- c. SITES WITH HIGHLY ERODIBLE SOILS.
- d. SITES ADJACENT TO SENSITIVE AREAS.
- e. SITES WHERE GRADING AND CLEARING ACTIVITIES ARE LIKELY BETWEEN OCTOBER 1ST AND APRIL
- 5. ADDITIONAL EROSION CONTROL MEASURES MAY INCLUDE ONE OR MORE OF THE FOLLOWING
  - a. LIMITED AREA CLEARED AT ANY ONE TIME:
- b. ADDITIONAL DRAINAGE REQUIREMENTS DURING CONSTRUCTION;
- c. FILTERING OR TREATMENT OF RUNOFF: d. ADDITIONAL WATER QUALITY:
- ADDITIONAL EROSION CONTROL TO COVER PORTIONS OF THE SITE: f. MAINTAINING A VEGETATED BUFFER STRIP BETWEEN SITE AND SENSITIVE AREA:
- q. ADDITIONAL FACILITIES TO REDUCE VOLUME AND VELOCITY OF WATER RUNOFF
- h. IF THERE ARE NO WORKABLE ALTERNATIVES, LIMIT CLEARING AND GRADING IN SOME AREAS BETWEEN OCTOBER 1ST AND APRIL 30TH.
- PHYSICALLY COVERED IN THE WET WEATHER SEASON 6. SITE CLEANUP AND DEBRIS REMOVAL, CONTRACTOR TO REMOVE EXCESSIVE SOIL AND DEBRIS DEPOSITED ONTO STREETS OR INTO THE CITY STORM DRAINAGE SYSTEM, STREET CLEANUP ON STREETS EVERY DAY AND UPON COMPLETION OF WORK OR AS REQUIRED BY THE CITY.
- 7. DUST CONTROL ON STREETS ACCESSIBLE AND USED BY RESIDENTS IS REQUIRED.
- 8. MINIMUM EROSION CONTROL MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING. SEDIMENT FENCES ALONG THE DOWNGRADE SLOPE OF THE PROJECT PERIMETER. FILTER BAGS AT CATCH BASIN INLETS. STREET CLEANING OF DEBRIS OR MATERIAL DROPPED IN TRANSIT. INSTALLATION OF WATER QUALITY EROSION CONTROL BM P'S PER PROJECT PLANS.

i, ALL DISTURBED LAND AREAS THAT SHALL REMAIN UNWORKED FOR 14 DAYS OR MORE SHALL BE



NOTES WARRENTON ROBY'S FURNITURE OF CITY

RAWN: 05/28/202 ISSUED: 05/28/2021 SCALE: AS SHOWN

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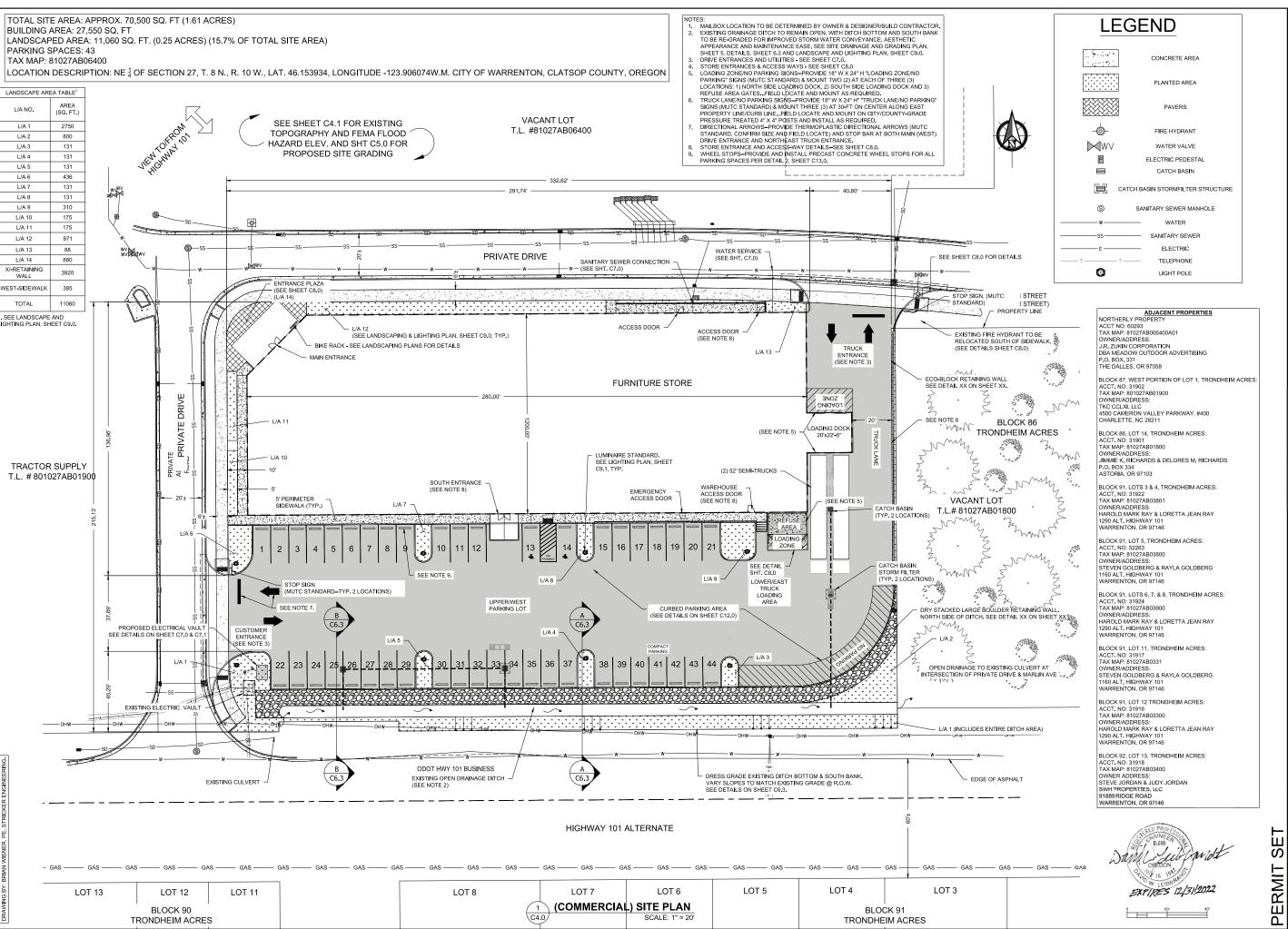
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BAR IS ONE INCH ON ORIGINAL DRAWING F NOT ONE INCH ON THIS SHEET, ADJUST

REDUCED DRAWING

VERIFY SCALE

SCALES ACCORDINGLY



STRICKER

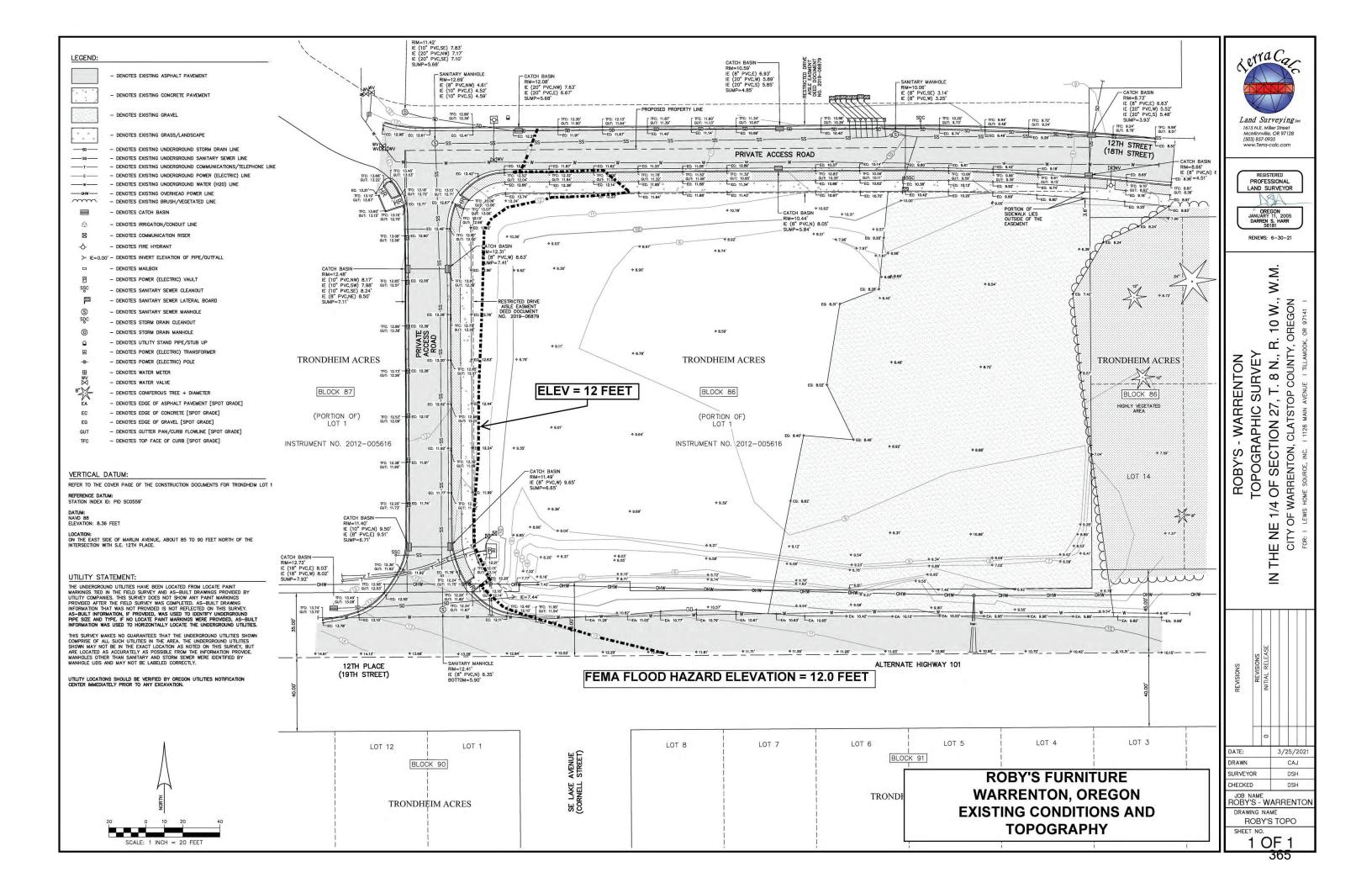
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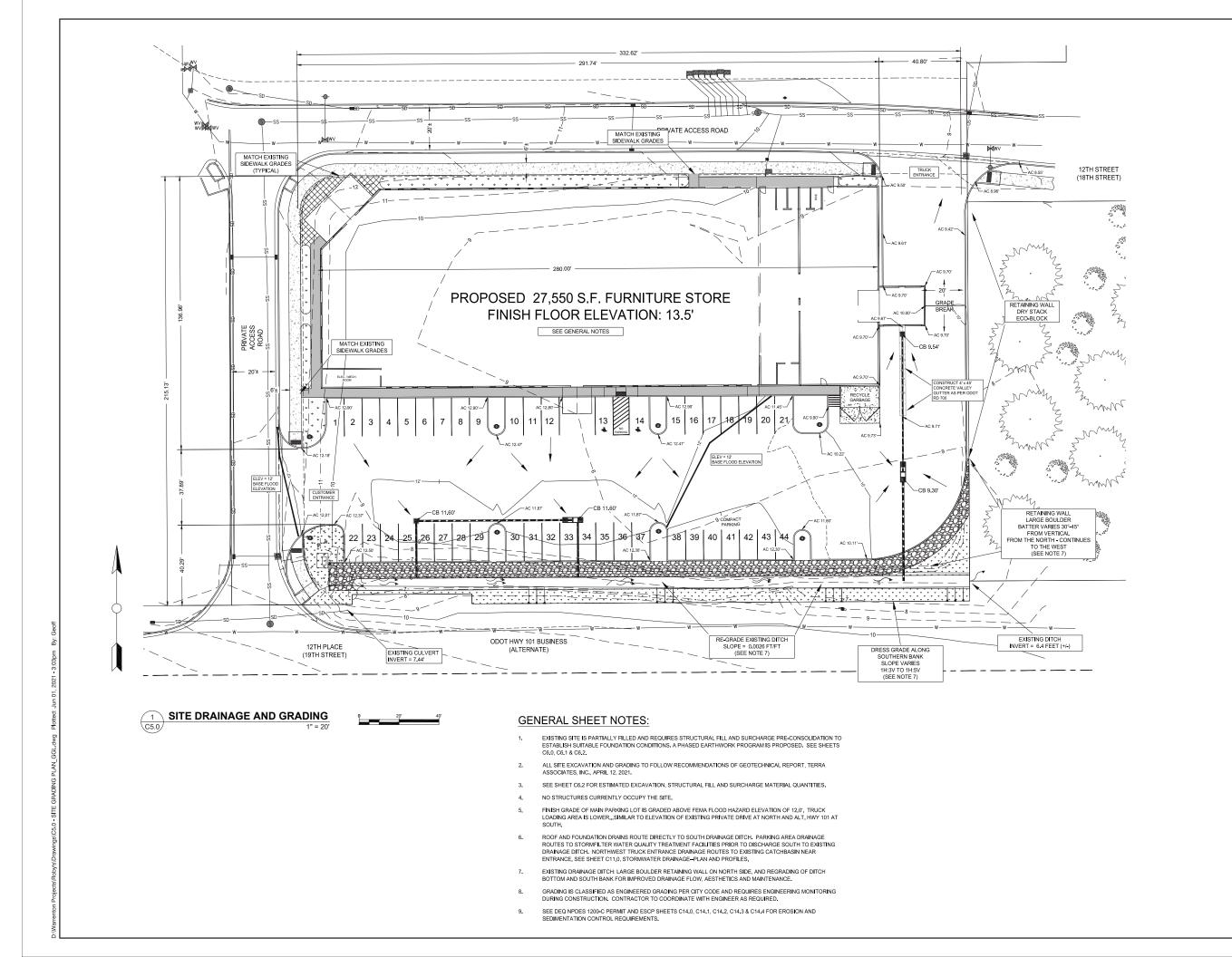
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ROBY'S FURNITURE SITE DRAINAGE AND GRADING PLAN GENERAL SHEET NOTES

SCALE: AS SHOWN OB N.O: 2012211249

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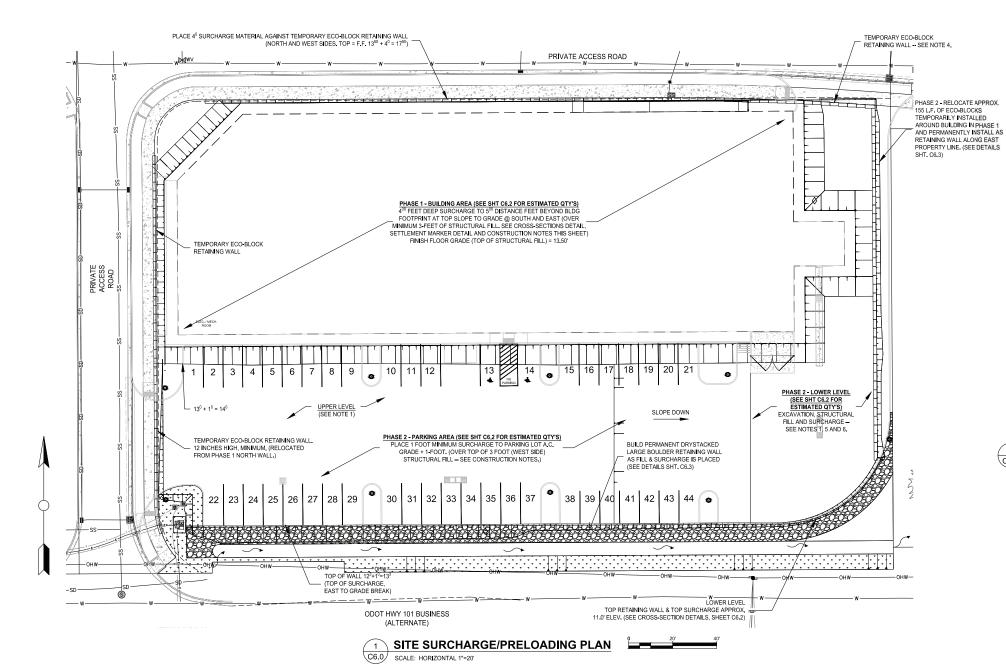
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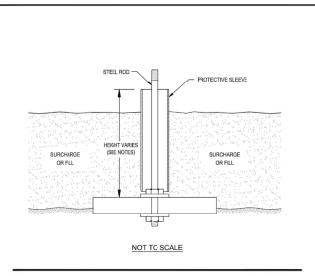
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### CONSTRUCTION NOTES

- 1. SEE "SITE DRAINAGE AND GRADING PLAN" SHEET C.4.0 FOR FINISH GRADE ELEVATIONS. SEE SITE EXCAVATION PLAN, SHEET C6.1 FOR PRE-FILL EXCAVATION REQUIREMENTS. SEE EXCAVATION/STRUCTURAL FILL/SURCHARGE CROSS SECTIONS & DETAILS, SHEET C6.2, FOR EXPECTED FILL THICKNESSES, SEE DETAILS--RETAINING WALLS, SHEET C6,3 FOR CONCURRENT RETAINING WALL CONSTRUCTION REQUIRED FOR FILL AND SURCHARGE CONTAINMENT. FOLLOW RECOMMENDATIONS AND GUIDANCE PER GEOTECHNICAL REPORT (RORY'S FURNITURE. TERRA ASSOCIATES, INC., APRIL 12, 2021).
- 2. INSTALL MIRAFI 500X GEOTEXTILE, OR APPROVED EQUAL, OVER EXISTING GROUND BEFORE PLACING STRUCTURAL FILL IN BUILDING AREA.
- 3. FIELD LOCATE AND INSTALL SETTLEMENT MARKERS PER DETAIL THIS SHEET, IN QUANTITIES AND LOCATIONS PER GEOTECHNICAL ENGINEER RECOMMENDATIONS, AND MONITOR OVER TIME, AS REQUIRED.
- 4. EXISTING SIDEWALKS.-TEMPORARY "ECO-BLOCK" RETAINING WALL PLACEMENT AND SURCHARGING IN THE IMMEDIATE VICINITY OF EXISTING SIDEWALKS ON THE NORTH AND WEST SIDES OF THE PROPOSED BUILDING IS EXPECTED TO CAUSE SETTLEMENT OF ADJACENT SIDEWALKS. CONTRACTOR TO REPLACE OR RESTORE SIDEWALKS TO PRE-CONSTRUCTION GRADES AND CONDITION AFTER SURCHARGING PERIOD AS MAY
- 5. PROVIDE EROSION AND SEDIMENTATION CONTROL THROUGHOUT CONSTRUCTION PER ESCP.
- 6. POTHOLE AND FIELD VERIFY SUITABILITY OF EXISTING FILL ON EASTERLY SIDE OF PROPERTY. PER GEOTECHNICAL ENGINEER RECOMMENDATIONS, PRIOR TO PROCEEDING WITH FILL AND SURCHARGE OPERATIONS. IT IS ANTICIPATED THAT SURCHARGE MATERIAL USED FOR THE PHASE 1 BUILDING AREA WILL MEET MATERIAL SPECIFICATION REQUIREMENTS FOR ON-SITE RE-USE AS PHASE-2 STRUCTURAL FILL.



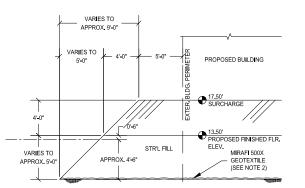


- BASE CONSISTS OF 3/4" THICK, 2'x2' PLYWOOD WITH CENTER DRILLED 5/8" DIAMETER HOLE.
- 2. BEDDING MATERIAL, IF REQUEED, SHOULD CONSIST OF CLEAN GOARSE SAND.
- 3. MARKER ROD IS 1/2" DIAMETER STEEL ROD THREADED AT BOTH ENDS.
- 4. MARKER ROD IS ATTACHED TO BASE BY NUT AND WASHER ON EACH SIDE OF BASE.
- PROTECTIVE SLEEVE SURROUNDING MARKER ROD SHOULD CONSIST OF 2" DIAMETER PLASTIC TUBING. SLEEVE IS NOT ATTACHED TO ROD OR BASE.
- 6. ADDITIONAL SECTIONS OF STEEL ROD CAN BE CONNECTED WITH THREADED COUPLINGS.
- ADDITIONAL SECTIONS OF PLASTIC PROTECTIVE SLEEVE CAN BE CONNECTED WITH PRESS-FIT PLASTIC COUPLINGS.
- 8. STEEL MARKER ROD SHOULD EXTEND AT LEAST 6" ABOVE TOP OF PLASTIC PROTECTIVE SLEEVE.
- 9. PLASTIC PROTECTIVE SLEEVE SHOULD EXTEND AT LEAST 1" ABOVE TOP OF FILL SURFACE.



SETTLEMENT MARKER DETAIL TRONDHEIM ACRES WARRENTON, OREGON

Proj. No.T-7723 Date NOV 2018 Fgure 3



**PHASE 1 (BUILDING AREA)** STRUCTURAL FILL & SURCHARGE CROSS-SECTION SCALE: 1/4" = 1

**EXCAVATION PLAN** ROBY'S FURNITURE SITE

STRICKER

RAWN: 05/28/202 ISSUED: 05/28/2021 SCALE: AS SHOWN OB N.O: 2012211249

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### **EXCAVATION PLAN NOTES**

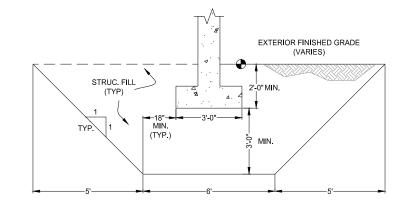
- 1 EXCAVATION TO FOLLOW GEOTECHNICAL REPORT GUIDANCE (TERRA ASSOCIATES INC. APRIL 12, 2021 ROBY'S FURNITURE WARRENTON OR):
- 2. SURFACE LAYER STRIPPING GENERALLY NOT REQUIRED WHERE PLANNED STRUCTURAL FILL DEPTHS ABOVE EXISTING GRADES ARE:
- 2.1. MORE THAN THREE (3) FEET IN BUILDING AREAS
- 2.2. MORE THAN TWO (2) FEET IN PAVEMENT AREAS
- A.EXCEPTION TO "A." ABOVE, WHERE EXCESSIVELY SOFT AND YIELDING SUB-GRADE IS OBSERVED, UNSTABLE SOILS SHOULD BE REMOVED TO A DEPTH OF 18-INCHES AND REPLACED WITH STRUCTURAL FILL.
- B. EXCAVATION AREAS INCLUDE ALLOWANCE FOR SIDE SLOPE CUTBACKS.
- C, EXCAVATION AREAS SHOWN ARE BASED ON REPORT GUIDANCE FOR FOUNDATION SUPPORT:

### 3. STRUCTURAL FILL:

- 3.1. BENEATH CONVENTIONAL SPREAD FOOTINGS—PROVIDE A MINIMUM OF 3-FEET STRUCTURAL FILL EXTENDING A MINIMUM OF 12-INCHES LATERALLY BEYOND FOOTING EDGES.
- 3.2. BENEATH PAVED AREAS, PROVIDE A MINIMUM OF 18 TO 24-INCHES BELOW FINISHED GRADE.

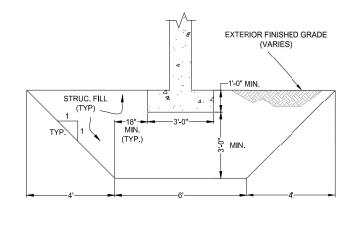
C6.1 SCALE: HORIZONTAL 1"=20"

- 3.3. PHASED EXCAVATION: 2-PHASE EXCAVATION IS ANTICIPATED WITH THE FIRST PHASE INVOLVING FOOTING EXCAVATIONS FOR THE PROPOSED BUILDING AREA AND THE SECOND PHASE INVOLVING PARKING AREAS.
- 4. AN UNCERTAIN DEPTH AND QUALITY OF ROCK-FILL HAS BEEN PREVIOUSLY PLACED ON THE EASTERLY SIDE OF THE SITE. CONTRACTOR TO POT-HOLE AT SEVERAL LOCATIONS UNDER THE OBSERVATION AND GUIDANCE OF THE GEOTECHNICAL ENGINEER SO AS TO FACILITATE A FIELD ASSESSMENT OF POTENTIAL SUITABILITY AS STRUCTURAL FILL. WHERE EXISTING ROCK FILL IS JUDGED TO BE INADEQUATE FOR STRUCTURAL FILL PURPOSES. CONTRACTOR TO EXCAVATE AS REQUIRED TO ACHIEVE MINIMUM STRUCTURAL FILL DEPTHS. TABULATED QUANTITY ESTIMATIONS ASSUME FULL DEPTH EXCAVATION IN EASTERLY LOW-LEVEL PARKING LOT AREA.
- 5. OVER-EXCAVATION BENEATH UTILITIES—PER GEOTECHNICAL REPORT. CONTRACTOR TO OVER-EXCAVATE BENEATH ALL UTILITY STRUCTURES. PIPELINES AND CONDUITS A DEPTH OF APPROXIMATELY 2-FT TO 4-FT, AND INSTALL COMPACTED STRUCTURAL FILL, AS REQUIRED TO ESTABLISH SOUND FOUNDATION CONDITIONS. PROVIDE MIRAFI 500X GEOTEXTILE FABRIC BETWEEN EXCAVATED GROUND SUB-BASE AND FOUNDATION STRUCTURAL FILL.



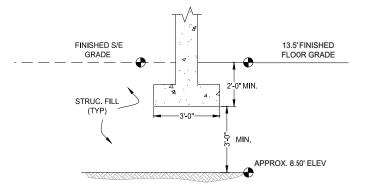
### **CASE 1 FOOTING CONDITION**

X - SECTION (TYPICAL) SCALE: 1/2" = 1'



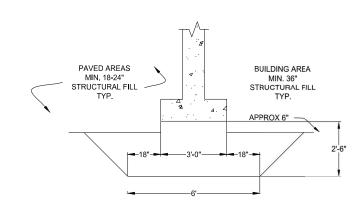
### **CASE 2 FOOTING CONDITION**

X - SECTION (TYPICAL) SCALE: 1/2" = 1'



### **CASE 3 FOOTING CONDITION**

X - SECTION (TYPICAL) SCALE: 1/2" = 1'



### **CASE 4 FOOTING CONDITION**

X - SECTION (TYPICAL) SCALE: 1/2" = 1'



**EXCAVATION PLAN** ROBY'S FURNITURE SITE RAWN: 05/28/202 ISSUED: 05/21/2021

> SCALE: AS SHOWN OB N.O: 2012211249

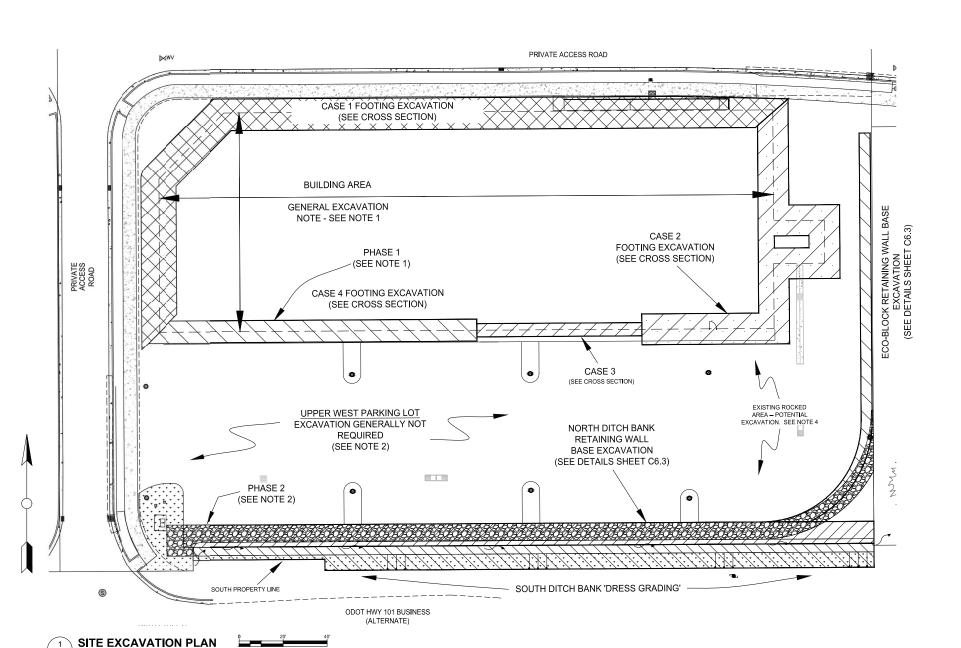
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### EARTHWORK (EXCAVATION/STRUCTURAL

### FILL/SURCHARGE) NOTES:

- 1. EXCAVATION, STRUCTURAL FILL PLACEMENT AND SITE SURCHARGING TO FOLLOW GEOTECHNICAL REPORT GUIDANCE (TERRA ASSOCIATES INC. APRIL 12, 2021 RORY'S FURNITURE WARRENTON, OR):
- A. SURFACE LAYER STRIPPING GENERALLY NOT REQUIRED WHERE PLANNED STRUCTURAL FILL DEPTHS ABOVE EXISTING GRADES ARE:
- MORE THAN THREE (3) FEET IN BUILDING AREAS
- MORE THAN TWO (2) FEET IN PAVEMENT AREAS
- B. EXCEPTION TO "A." ABOVE, WHERE EXCESSIVELY SOFT AND YIELDING SUBGRADE IS OBSERVED, UNSTABLE SOILS SHOULD BE REMOVED TO A DEPTH OF 18-INCHES AND REPLACED WITH STRUCTURAL FILL.
- C. EXCAVATION AREAS INCLUDE ALLOWANCE FOR SIDE SLOPE CUT BACKS.
- D. EXCAVATION AREAS SHOWN ARE BASED ON REPORT GUIDANCE FOR FOUNDATION SUPPORT:
- BENEATH CONVENTIONAL SPREAD FOOTINGS-PROVIDE A MINIMUM OF 3-FEET STRUCTURAL FILL EXTENDING A MINIMUM OF 12-INCHES LATERALLY BEYOND FOOTING EDGES.
- BENEATH PAVED AREAS, PROVIDE A MINIMUM OF 18 TO 24-INCHES BELOW FINISHED GRADE.

  2. PHASED EARTHWORK PROGRAM—A TWO PHASE EARTHWORK PROGRAM IS PLANNED AS FOLLOWS:

### A. PHASE 1-BUILDING AREA:

- OVER EXCAVATE FOOTING AREAS AND PLACE STRUCTURAL FILL FOUNDATION MATERIAL.
- II. CONTSTRUCT TEMPORARY ECO-BLOCK RETAINING WALLS...NORTH AND WEST SIDE.
- III. INSTALL STRUCTURAL FILL TO FINISHED FLOOR ELEVATION (13.5')
- IV. INSTALL 4' THICK SURCHARGE MATERIAL
- V. PRECONSOLIDATE SUBSURFACE—MONITOR SUBSURFACE CONSOLIDATION OVER 3-4 MONTH PERIOD. WITH PRECONSOLIDATION COMPLETE, PROCEED TO PHASE 2.

### B. PHASE 2-PAVED AREAS:

- EXCAVATE "SURFACE SOFT SPOTS" AND EXCAVATE RETAINING WALL FOOTING AREAS AND PLACE STRUCTURAL FILL. BEGIN RETAINING WALL CONSTRUCTION.
- II. POTHOLE AND ASSESS EAST SIDE ROCK-FILL AREA PER NOTE 3 BELOW, OVEREXCAVATE "SHALLOW AREAS" AS REQUIRED AND PLACE STRUCTURAL FILL AT REQUIRED DEPTHS TO FINISH GRADES PER SITE DRAINAGE AND GRADING PLAN.
- III. CONSTRUCT RETAINING WALLS AS STRUCTURAL FILL IS PLACED.
- IV. INSTALL SURCHARGE MATERIAL AND FINAL RETAINING WALL "TOP-OUT"
- 3. AN UNCERTAIN DEPTH AND QUALITY OF ROCK-FILL HAS BEEN PREVIOUSLY PLACED ON THE EASTERLY SIDE OF THE SITE. CONTRACTOR TO POT-HOLE AT SEVERAL LOCATIONS UNDER THE OBSERVATION AND GUIDANCE OF THE GEOTECHNICAL ENGINEER SO AS TO FACILITATE A FIELD ASSESSMENT OF POTENTIAL SUITABILITY AS STRUCTURAL FILL, WHERE EXISTING ROCK FILL IS JUDGED TO BE INADEQUATE FOR STRUCTURAL FILL PURPOSES, CONTRACTOR TO EXCAVATE AS REQUIRED TO ACHIEVE MINIMUM STRUCTURAL FILL DEPTHS. TABULATED QUANTITY ESTIMATIONS ASSUME FULL DEPTH EXCAVATION IN EASTERLY LOW-LEVEL PARKING LOT AREA.

# PHASE 1 BUILDING FOOTING EXCAVATION & STRUCTURAL FILL ESTIMATED QUANTITIES

	-	-		0. 11 11111	0. 0.000	0. 0.011
						Str'l Fill
(ft)	X-Sect'n	Volume	Volume	X-Sect'n	Volume	Volume
	Area (ft²)	(cf)	(cy)	(ft²)	(cf)	(cy)
362	45	16,290	603	40	14,460	536
231	33	7623	282	30	6,930	256
75	-0-	-0-	-0-	-0-	-0-	-0-
140	21.5	3,010	111	21	3,010	111
		26,923	997		24,400	904
		(27,000)	(1,000)		(24,500)	(900)
155	20	3,100	115	20	3,100	115
315	52.5	16,538	612.5	48.5	15,278	565
70	25	1,750	65	25	1,750	65
		17,450	646		16,190	745
		(17,500)	(650)		(16,200)	(750)
	231 75 140 155 315	(ft) X-Sect'n Area (ft²)  362 45 231 33 75 -0- 140 21.5  155 20 315 52.5	(ft) X-Sect'n Area (cf) (left)	(ft) X-Sect'n Area (ft²) Volume (cf) (cf) (cf) (cf) (cf) (cf) (cf) (cf)	(ft)         X-Sect'n Area (rft²)         Volume (cf) (cy)         Volume (ft²)         X-Sect'n (ft²)           362         45         16290         603         40           231         33         7623         282         30           75         -0-         -0-         -0-         -0-           140         21.5         3,00         111         21           26923         997         (27,000)         (1,000)           155         20         3,100         115         20           315         52.5         16538         612.5         48.5           70         25         1,750         65         25           17,450         646         25	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

# PHASE 1 BUILDING AREA STRUCTURAL FILL ESTIMATED QUANTITIES

Sub-Area	Area	Depth or Length	Volume	Volume
Description	(sf)	(ft)	(cf)	(cy)
Bldg Footprint	27,550	5	137,750	5,102
Loading Dock	460	5	2,300	85
Perim. Shldr				
*N. Wall	750	2.5	1,875	69
*NW Entry	430	1	430	16
*West Wall	4,200	1	4,200	155
*South Wall	2,610	5	13,050	483
*East Wall	1,323	5	6,615	245
*Slope Shldrs	12.5	437	5,463	202
Subtotals:			171,683	6,357
Subt'l Rnd-offs:			(172,000)	(6,400)

### SUMMARY TABLE--ESTIMATED VOLUME QUANTITIES

### EXCAVATION/STRUCTURAL FULL/SURCHARGE MATERIALS

ITEM DESCRIPTION	ESTIMATE	D QUANTITY
EXCAVATION:	CUBIC FEET	CUBIC YARDS
	(C.F.)	(C.Y.)
*Phase I Building Footings	27,000	1,000
*Retaining Walls	20,000	800
*Phase 2 Parking & Access Areas	3,600	320
TOTAL ESTIMATED EXCAVATION:	55,600 CF	2,120 CY
STUCTRURAL FILL:		
*Phase I Building Area		
-Footing Support	24,500	900
-Main Building Area (2)	172,000	6,400
*Phase 2 Parking Access Areas		
-Upper/Westerly Parking Area	57,000	2,100
-Lower Easterly Area (3)	14,000	525
-Retaining Walls	20,000	750
TOTAL ESTIMATED SURCHARGE MATERIAL	287,500 CF	10,675 CY
SURCHARGE MATERIAL:		
*Phase 1 Building Area	130,000	4,820
*Phase 2 Parking & Access Areas	25,000	930
TOTAL ESTIMATED SURCHARGE MATERIAL	155,000 C.F.	5,750 C.Y
1) Contractor to pothole existing rock-fill area		
in presence of geotechnical engineer to		
determine material suitability as structural		
fill. Quantities shown represent potential		
excavation requirements if existing rock		
material is judged unsuitable.		
2) Structural Fill on south and east sides		
extends beyond the recommended		
"footprint and 5-feet perimeter" as required		
to support surcharge material.		
3) Includes approximately 320 cy's (8,600 cf)	J	Į.
of 'Potential" Structural Fill to replace		
potentially unsuitable existing rock -ill		

# PHASE 1 BUILDING AREA SURCHARGE ESTIMATED QUANTITIES

material. See notes

Sub-Area Description	Area (sf)	Depth or Lngth (ft)	Volume (cf)	Volume (cy)
Bldg + 5' (expt ret. wlls)	31,668	4	126,672	4,692
Sloped Shiders	442	8	3,536	130
Subtotals:			129,808	4,822
Round-offs			(130,000)	(4,820)

# PHASE 2 PAVED AREAS-EXCAVATION ESTIMATED QUANTITIES

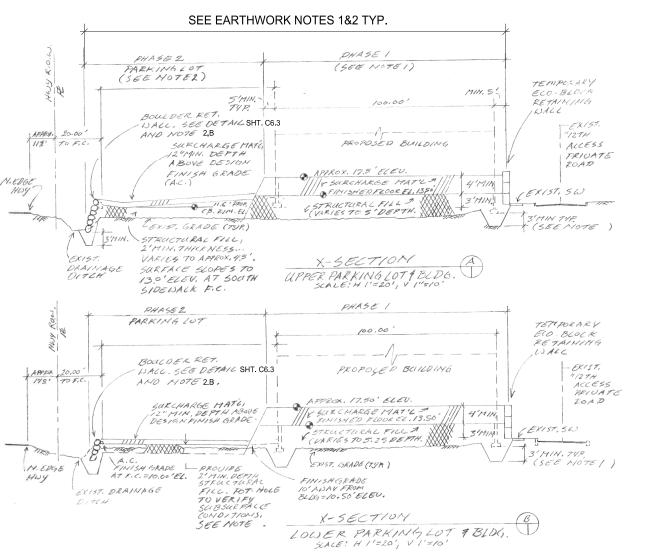
Sub-Area ID	Sub-Area Description	Area (ft²)	Ave. Depth (ft)	Volume (ft³)	Volume (cy³)
A1	W/Upr PL	16,060	-0-	-0-	-0-
A2	SE PL	4.408	1.25	5.500	204
A3	NE PL	1,012	2	2,024	75
A4	Uppr W R	N/A	-0-	-0-	-0-
A4'	Lowr W R	14	73	1,049	38
Subtotals:				8,573	317
Round-offs				(8,600)	(320)

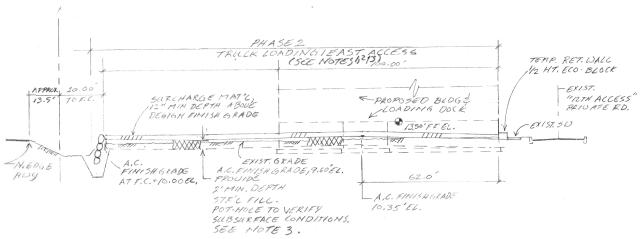
# PHASE 2 PAVED AREAS-STRUCTURAL FILL ESTIMATED QUANTITIES

Sub-Area	Sub-Area	Area	Ave. Depth	Volume	Volume
ID	Description	(ft <sup>2</sup> )	(ft)	(ft <sup>3</sup> )	(cy3)
A1	W/Upr PL	16,060	3.22	51,713	1,915
A2	SE PL Top	4,408	0.75	3,306	122
A2	SE PL Pt'l	4,408	1.25	5,500	204
A3	NE PL Top	1,012	-0-	-0-	-0-
A3	NE PL Pot'l	1,012	2	2,024	75
A4	Uppr WR	72	74	5,328	197
A4'	Lwr ER Top	31	73	2,263	84
A4'	Lwr ER Pt'l	14	73	1,049	38
SubTtl Top:				62,610	2,318
SubTl Pot'l:				8,573	_317
Total				71,183	2,635

# PHASE 2 PAVED AREAS-SURCHARGE ESTIMATED QUANTITIES

Sub-Area	Sub-Area	Area	Ave. Depth	Volume	Volume
ID	Description	(ft <sup>2</sup> )	(ft)	(ft <sup>3</sup> )	(cy3)
A1	W/Upr PL	16,060	1	16,060	595
A2	SE Park LT	4,408	1	4,408	16
A3	NE Park LT	1,012	1	1,012	37
A4&A4'	Ramp Area	3,700	1	3,700	137
SubTotal				25,180	932
Round-offs				(25,000)	(930)





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SCALE: H 1=20', V 1°=10'

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SE STRICKER Engineering

ROBY'S FURNITURE EXCAVATION/STRUCTURAL FILL/SURCHARGE CROSS SECTIONS & DETAILS

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ISSUED: 05/28/2021
SCALE: AS SHOWN
JOB N.O: 2012211249

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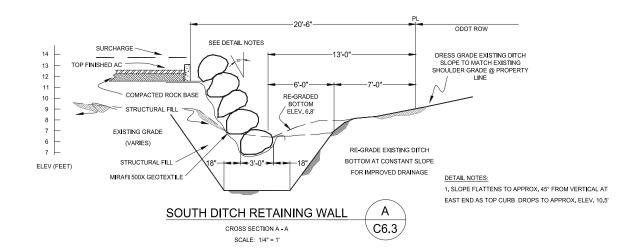
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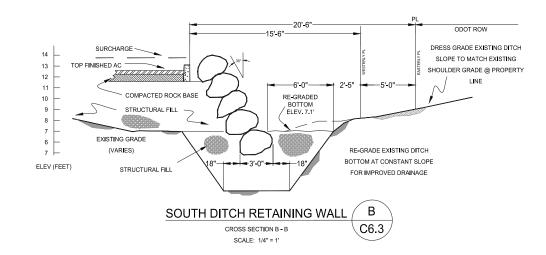
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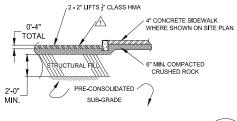
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Warrenton Projects\Roby's\Working\Roby Exc 05 14 2021.dwg Plotted: Jun 01, 2021 • 10:57am By:

### **ECO-BLOCK RETAINING WALL**







PAVEMENT CROSS-SECTION 🖄 C SCALE: 1/4" = 1'

FINISH GRADE HMA SURFACING TO GRADES SHOWN ON SHEET C5.0. SLOPE TO DRAIN.

SEE GEOTECHNICAL REPORT FOR SUB-BASE PRE-CONSOLIDATION AND PROOF-ROLL PROCEDURES.

EXPIRES 12/31/2022

STRICKER

ROBY'S FURNITURE
DETAILS--RETAINING WALLS & PAVEMENT
CROSS-SECTIONS

DRAWN: 05/28/202

SCALE: AS SHOWN JOB N.O: 2012211249

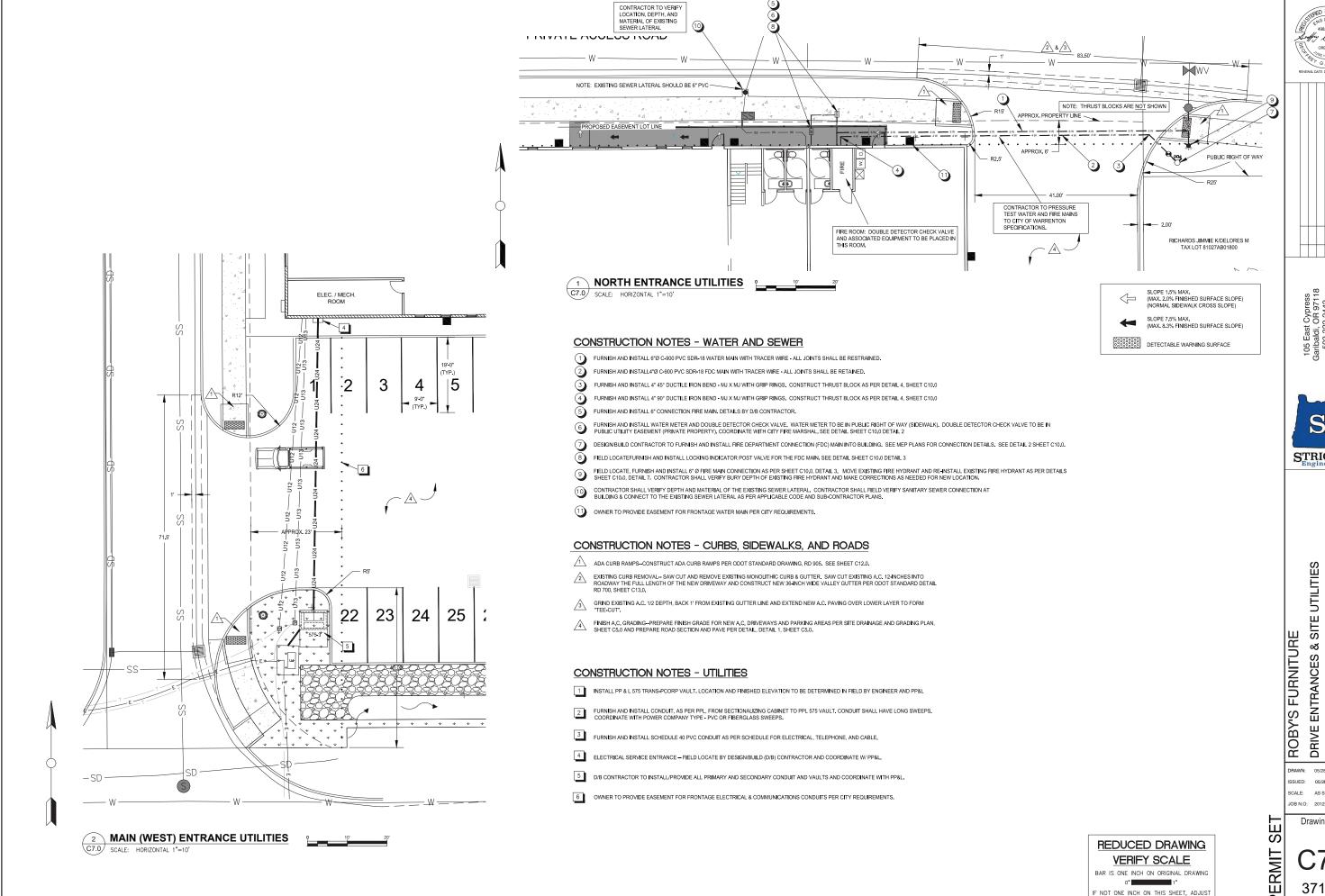
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**PERMIT** 

Drawing N.O:

C6.3

370



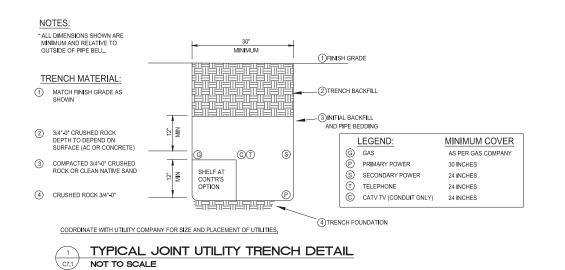
STRICKER

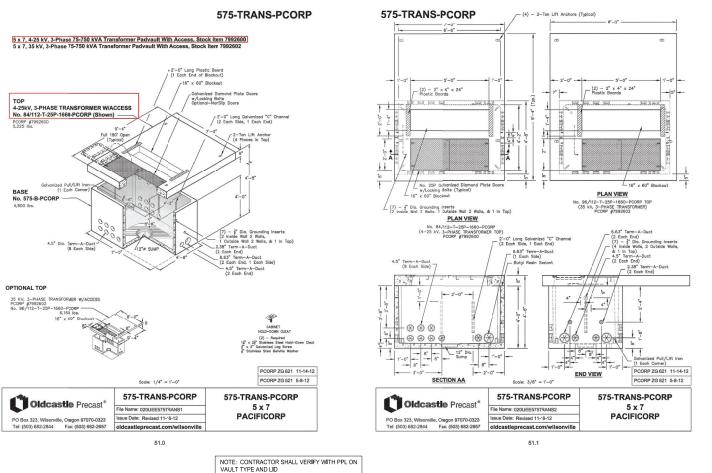
DRIVE ENTRANCES & SITE UTILITIES (WATER, SEWER, CONDUITS)

DRAWN: 05/28/202

SCALE: AS SHOWN OB N.O: 2012211249

Drawing N.O:





PPL 575 VAULT FOR ELECTRICAL TRANSFORMER NOT TO SCALE

> **VERIFY SCALE** BAR IS ONE INCH ON ORIGINAL DRAWING

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ROBY'S FURNITURE DETAILS- UTILITIES

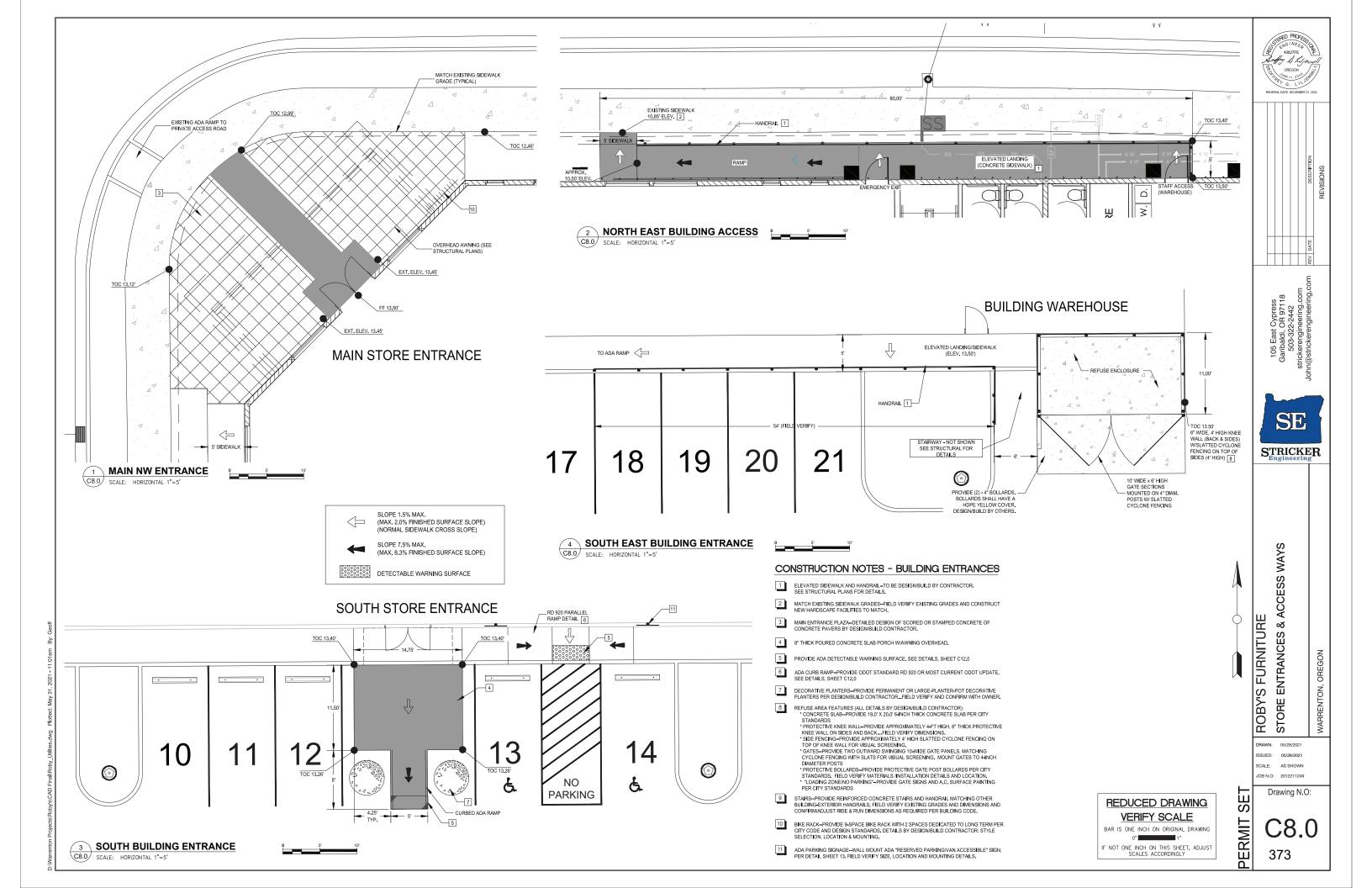
DRAWN: 05/28/2021 ISSUED: 05/21/2021 SCALE: AS SHOWN JOB N.O: 2012211249

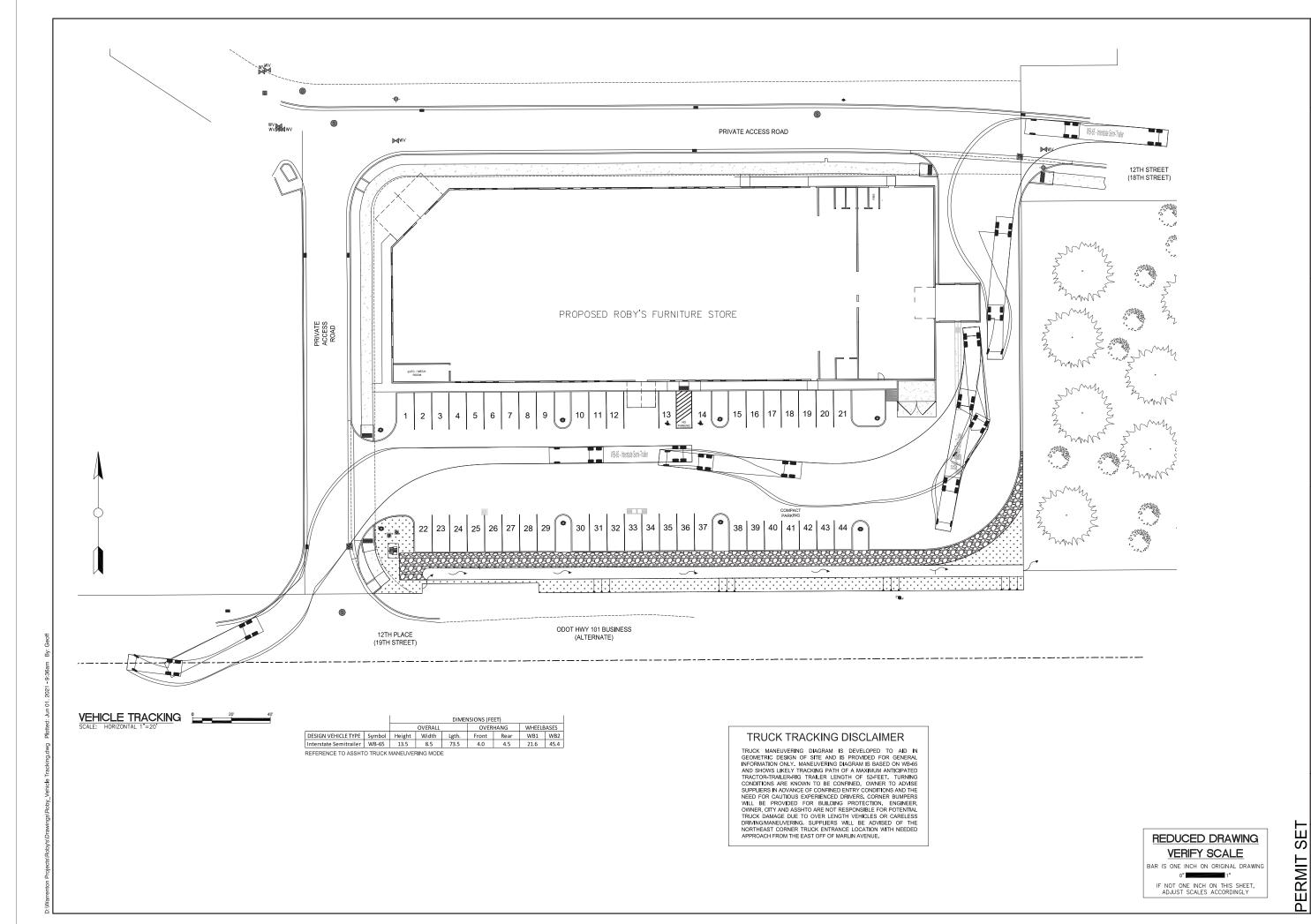
REDUCED DRAWING

F NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

372

STRICKER







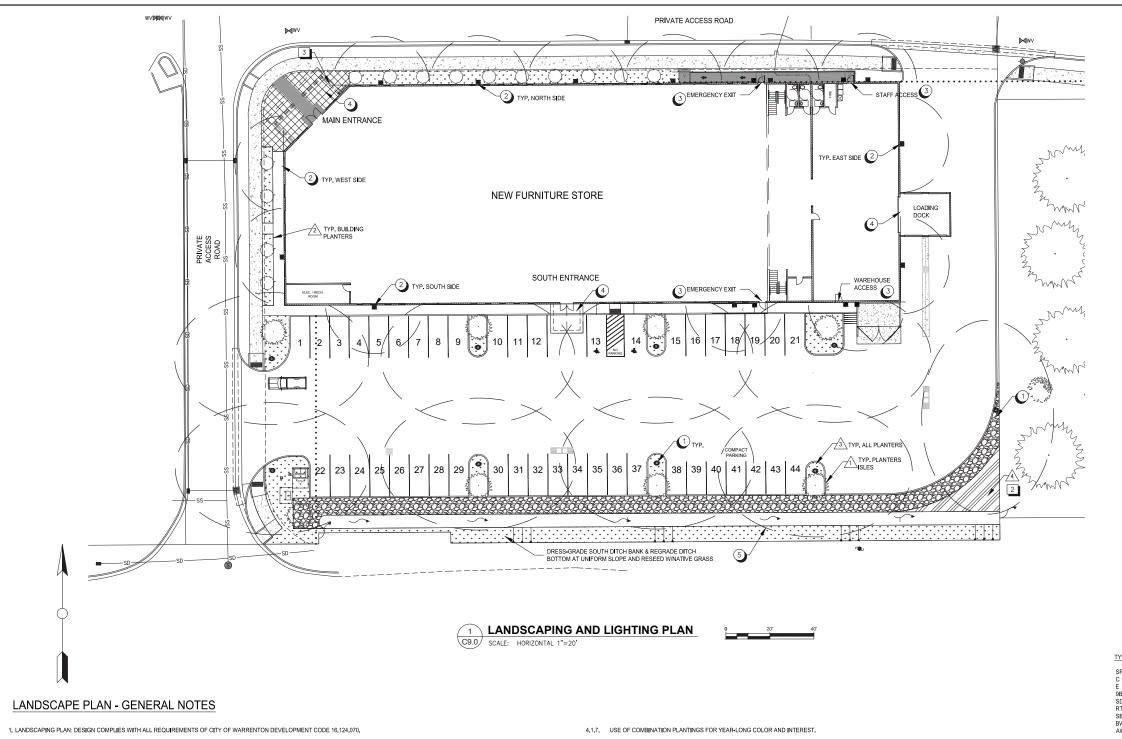
ROBY'S FURNITURE TRUCK MANEUVERING/TRACKING DIAGRAM

DRAWN: 05/28/202 ISSUED: 05/28/2021 SCALE: AS SHOWN JOB N.O: 2012211249

Drawing N.O:

C8.1

374



2. LANDSCAPED AREA: TOTAL EXCEEDS MINIMUM 15% OF GROSS AREA REQUIREMENT. (71,500 SF X 15% = 10,725 SF)

### 3. LANDSCAPE MATERIALS:

- 3.1 NATURAL VEGETATION PRESERVED -- SOUTH SIDE OPEN DRAINAGE DITCH TO BE PRESERVED AS NATURAL VEGETATION
- 3.2. PLANT SELECTION-- ALL NEW PLANTINGS TO BE "LOCAL CLIMATE" HARDY NATIVE SPECIES.
- 3.3. NON-NATIVE, INVASIVE PLANTS PROHIBITED -- ALL INVASIVE HIMALAYAN BLACKBERRIES ON-SITE TO BE REMOVED.
- 3.4. HARDSCAPE FEATURES-COVER LESS THAN 90% MAX. OF LANDSCAPED AREA.
- 3.5. NON-PLANT GROUND COVERS-BARK DUST, CHIPS, AGGREGATE, ETC, SHALL BE LESS THAN 90% OF TOTAL LANDSCAPED AREA.
- 3.6. TREE SIZE-NEW TREES TO HAVE A MINIMUM CALIPER SIZE OF 1.5-INCHES
- 3.7. SHRUB SIZE-ALL NEW SHRUBS TO BE BALLED AND BURLAPPED TO FIT IN MULTI-GALLON CONTAINERS.
- 3.8. GROUNDCOVER SIZE-SIZE AND SPACING SO AS TO COVER A MINIMUM OF 30% OF UNDERLYING SOIL WITHIN TWO YEARS.
- 3,9. SIGNIFICANT VEGETATION PRESERVED-PRESERVED NATURAL VEGETATION IS INCLUDED IN LANDSCAPED AREA TOTAL,
- 3.10. STORMWATER FACILITIES--NATIVE SOILS (UNDISTURBED PLANTS AND EMBEDDED PLANT ROOTS & SEEDS) OF EXISTING OPEN DRAINAGE DITCH BOTTOM AND SOUTH-SIDE BANK TO BE PRESERVED AND WATER TOLERANT NATIVE PLANTING TO BE RESTORED WITH PROPOSED RE-GRADING.

4. LANDSCAPE DESIGN STANDARDS-DESIGNS COMPLY WITH ALL REQUIREMENTS OF CITY DEVELOPMENT CODE 16.124.070.E

- 4.1. SET BACK LANDSCAPING:
- 4.1.1. VISUAL SCREENING FOR PRIVACY, OPEN ENTRANCES FOR SECURITY.
- 4.1.2. TREES AND SHRUBS AS WIND BREAKS.
- 4.1.3. RETAINAGE OF NATURAL VEGETATION WHERE PRACTICABLE.
- 4.1.4. DEFINITION OF PEDESTRIAN PATHWAYS AND OPEN SPACES WITH LANDSCAPE MATERIALS.
- 4.1.5. USE OF SIGNATURE TREES, HEDGES, FLOWERING PLANTS AS FOCAL POINTS. 4.1.6. USE OF TREES FOR SUMMER SHADING IN COMMON AREAS.

- 4.1.8. SCREENAGE OF OUTDOOR STORAGE AND MECHANICAL AREAS.
- 4.1. PARKING AREAS:
- 4.1.1. MINIMUM LANDSCAPING OF 8% OF PARKING AREA PROVIDED.
- 4.1.2. MINIMUM PLANTING OF ONE TREE PER FIVE PARKING SPACES WITH EVENLY DISTRIBUTED PLANTING SCHEME (TREES, BUSHES & GROUNDCOVER)
- 4.1.3. MORE THAN 20 PARKING SPACES ARE REQUIRED, THUS, LANDSCAPE ISLANDS ARE INCLUDED AT NO LESS THAN ONE ISLAND PER 12 CONTIGUOUS SPACES.
- 4.1.4. ALL LANDSCAPE AREAS ARE GREATER THAN MINIMUM 4-FT X 4-FT REQUIREMENT.
- 4.2. BUFFERING AND SCREENING
- 4.2.1. PARKING/MANEUVERING AREA ADJACENT TO STREETS AND DRIVES—EVERGREEN HEDGE (GREATER THAN MINIMUM 36-INCH HEIGHT) SCREENING TO BE PROVIDED IN
- 4.2.2. PARKING/MANEUVERING AREA ADJACENT TO BUILDING-AS REQUIRED, 5-FOOT WIDE (GREATER THAN 4-FT MIN.) RAISED SIDEWALK PATHWAY IS PROVIDED AT THE SOUTH SIDES OF THE NEW BUILDING AS A BUFFER BETWEEN THE BUILDING AND THE PARKING AREA.
- 4.2.3. SCREENING OF MECHANICAL EQUIPMENT, OUTDOOR STORAGE, SERVICE AND DELIVERY AREAS--A NON-SEE-THROUGH GATED/FENCED ENCLOSURE IS PROVIDED AT THE SOUTHWEST CORNER OF THE BUILDING, SCREENING RECYCLING AND REFUSE BINS.
- 5. MAINTENANCE AND IRRIGATION-AS ENCOURAGED, DROUGHT-TOLERANT PLANT SPECIES WILL BE USED AS PLANT MATERIALS TO THE EXTENT AVAILABLE AND PRACTICABLE. UNDERGROUND IRRIGATION IS NOT PLANNED TO BE INCLUDED. LANDSCAPE CONTRACTOR TO PROVIDE TEMPORARY WATERING SERVICE AND MAINTENANCE WARRANTY.
- DESIGN/BUILD LANDSCAPING CONTRACTOR.

### CONSTRUCTION NOTES - LANDSCAPING

- LANDSCAPE PLANTING AND IRRIGATION—DETAILED LANDSCAPE PLANTING PLAN AND PLANTING TO BE PROVIDED BY DESIGNBULIC (DIE) CONTRACTOR, FOLLOWING CITY STANDARDS. SEE "GENERAL PLANTING THEME" TABLE, THIS SHEET. DROUGHT TOLERANT PLANTINGS ARE PLANNED WITH TEMPORARY/INITIAL IRRIGATION TO BE PROVIDED BY LANDSCAPE CONTRACT UNTIL ALL PLANTS BECOME WELL ESTABLISHED.
- SOUTHEAST CORNER PLANTER--GRADE SOUTHEAST CORNER PLANTER AREA TO MATION EXISTING GRADES TO EAST AT PROPERTY LINE AND DITCH GRADE TO SOUTH. PLANT WITH NATURAL WETLANDS PLANTINGS...PER D/B CONTRACTOR PLANTING PLAN. SOUTHEAST CORNER PLANTER--GRADE SOUTHEAST CORNER PLANTER AREA TO MATCH
- BICYCLE PARKING--PROVIDE MINIMUM 9 SPACES WITH TWO SPACES BEING LONG TERM, PER CITY CODE/STANDARDS/REQUIREMENTS. BICYCLE RACK STYLE, LOCATION AND INSTALLATION PER DIS CONTRACTOR.

### CONSTRUCTION NOTES - LIGHTING

- PLANTER ISLE LIGHT STANDARDS-PROVIDE CAST-IN-PLACE CONCRETE LIGHT STANDARD FOUNDATION BASE PER STRUCTURAL PLANS. DETAILED LUMINAIRE DESIGN AND LIGHTING CONSTRUCTION BY D/B CONTRACTOR.
- BUILDING MOUNTED LIGHTING-PROVIDE HIGH MOUNTED LUMINAIRES ON BUILDING FOR SUPPLEMENTARY LIGHTING. DESIGN AND INSTALLATION BY D/B CONTRACTOR. SEE STRUCTURAL PLANS.
- EXTERIOR DOOR LEVEL LIGHTING-FIELD LOCATE AND INSTALL EXTERIOR DOOR-LEVEL LIGHTING AT ALL SIDE ACCESS DOORS PER D/B CONTRACTOR.
- STORE ENTRANCE LIGHTING-OVERHEAD RECESSED LIGHTING TO BE PROVIDED AT BOTH MAIN NORTHWEST AND SOUTH CUSTOMER ENTRANCES UNDER AWNINGS AND AT REAR LOADING DOCK. DETAILED DESIGN AND INSTALLATION BY D/B CONTRACTOR. SEE STRUCTURAL PLANS.
- EXTERIOR SITE LIGHTING-GENERAL LIGHT FIXTURE LOCATIONS AND INTENDED LIGHTING COVERAGES ARE SHOWN ON PLANS. DETAILED LUMINAIRE DESIGN (INCLUDING STANDARD STYLE AND HEIGHT) TO BE PERFORMED BY DIS CONTRACTOR TO PROMISE AMPLE LIGHTING FOR CUSTOMER CONVENIENCE, PUBLIC SAFETY AND SITE SECURITY.



TYPICAL BUILDING

- APPROX. SPACING - 15'

### TYPICAL WETLANDS PLANT LIST

- Cascara Elderberry Pacific 9bark

### **GENERAL PLANTER THEME**





MIXED BED PLANTING: ORNAMENTAL GRASSES/SHRUBS/GROUNDCOVER... VARYING SHAPE, SIZE & COLOR



REDUCED DRAWING **VERIFY SCALE** 

BAR IS ONE INCH ON ORIGINAL DRAWING NOT ONE INCH ON THIS SHEET, ADJUST

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STRICKER

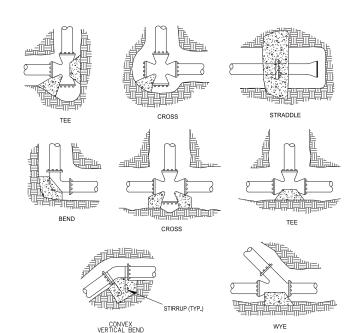
PLAN LIGHTING ROBY'S FURNITURE LANDSCAPING AND

BAWN: 05/28/202 ISSUED: 05/28/2021 SCALE: AS SHOWN

OB N.O: 2012211249 Drawing N.O:

375

### 6" DOMESTIC WATER CONNECTION DETAIL NOT TO SCALE

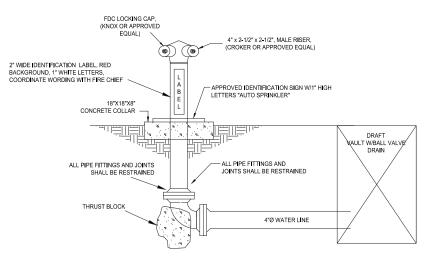


### NOTES:

- 1. CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.
- 2. POUR CONCRETE BLOCKING AGAINST UNDISTURBED EARTH.
- 3. ALL CONCRETE MIX SHALL HAVE A MIN. 28 DAY STRENGTH OF 3000 PSI
- 4. WRAP PIPE AND/OR FITTINGS WITH 2 LAYERS OF POLYETHYLENE FILM WHERE IN CONTACT WITH CONCRETE
- 5. KEEP CONCRETE CLEAR OF ALL JOINTS AND ACCESSORIES.
- 6. ALL REBAR SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM-123 (MIN. 3.4 MIL). REBAR SHALL BE BENT BEFORE GALVANIZATION, AND LAST 4" OF BAR SHALL BE BENT 90 DEGREES WITH A 1/2" RADIUS BEND. REBAR SHALL BE TIGHTLY FIT TO RESTRAINED FITTING.
- BEARING AREAS BASED ON TEST PRESSURE OF 150 PSI AND AN ALLOWABLE SOIL BEARING STRESS OF 1500 lb/sqf. IF CONDITIONS AND SITE VARY NOTIFY ENGINEER FOR NEW THRUST BLOCK REQUIREMENTS.

	THRUST BLOCK IN SQUARE FEET					
FITTING SIZE	TEE, WYE, PLUG OR CAP	90° BEND OR PLUGGED CROSS	45° BEND		11 1/4° BEND	STRADDLE BLOCK
6.0	2.8	4.0	2.1	1.3	-	9.8
8.0	5.1	7.0	3.9	2.0	1.3	17.3

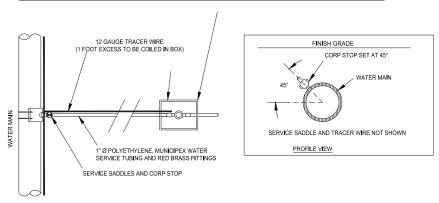
THRUST BLOCK DETAIL C10.0



FIRE DEPARTMENT CONNECTION DETAIL NOT TO SCALE

### CONTRACTOR SUPPLIED AND INSTALLED:

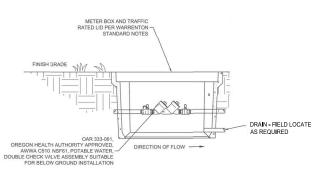
- 1. 1" SERVICE SADDLE (ROMAC 202S OR EQUIVALENT
- 2. 1" CORPORATION STOP (FORD FB1000-4G OR EQUIVALENT)
- 3. 1"Ø POLYETHYLENE, MUNICIPEX WATER SERVICE TUBING (CTS)
- 4. 1"X3/4" LOCKABLE ANGLE STOP USING FORD GRIP RING FITTINGS
- 5. METER BOX ARMORCAST RPM A6000485 (12X20X12) WITH POLYMER CONCRETE 20K TRAFFIC RATED LID)
- 6. FURNISH AND INSTALL MASTER METER ALLEGRO UNDER-THE-GLASS (UTG) OR MASTER METER OCTAVE WATER METERS



### NOTE:

- 1. WIRE SPLICES SHALL BE MADE WITH WATER PROOF CONNECTIONS.
- WHEN PLACED IN SIDEWALK, SEE DETAIL X/WX.1 FOR PLACEMENT OF WATER METER.
- 6" MINIMUM OF COMPACTED 3/1-0" CRUSHED ROCK TO SURROUND SERVICE LINE, AND WATER METER BOX. COMPACTED ROCK TO EXTEND A MINIMUM OF 6" PAST THE WATER METER BOX

### WATER SERVICE CONNECTION DETAIL C10.0

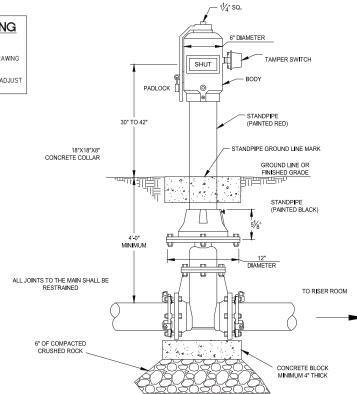


DOMESTIC DOUBLE CHECK VALVE DETAIL C10.0 NTS

### REDUCED DRAWING **VERIFY SCALE**

BAR IS ONE INCH ON ORIGINAL DRAWING

F NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY



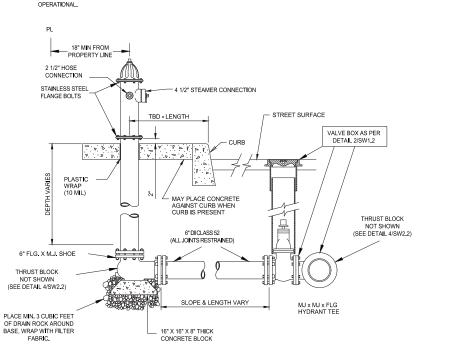
MONITORED POST INDICATOR VALVE NOT TO SCALE

### NOTES:

- 1. HYDRANTS TO BE MUELLER 5 1/4" MVO SUPER CENTURION (YELLOW) 250

- 1. HYDRANTS TO BE MUELLER 5 14" MVO SUPER CENTURION (YELLOW) 250 MODEL 4-423 WITH TWO 2-1/2" HOSE NOZZLES AND ONE PUMPER NOZZLE, MJ INLETS 5-1/4" OPENING.
  2. JOINTS TO BE RESTRAINED BY CRIPS RING GASKETS OR BY USING FLANGE HYDRANT SHOE, GATE VALVE AND SPOOL.
  3. CONFIRM REQUIRED HYDRANT ASSEMBLY PARTS AND DEPTH OF BURY WITH EACH INDIVIDUAL HYDRANT.
  4. ALL HITTINGS IN CONTACT WICONCRETE SHALL BE WRAPPED IN PLASTIC. HYDRANT DRAIN HOLES TO REMAIN OPEN TO DRAIN ROCK AND OPERATONAL
- 5. 1 1/2" 3/4" CLEAN DRAIN ROCK SHALL BE PLACED A MIN. OF 6" ABOVE DRAIN

- OUTLET.
  BURY OF HYDRANT SHALL BE MEASURED FROM FINISHED GRADE TO
  BOTTOM OF CONNECTING PIPE
  THRUST BLOCK AT FIRE HYDRANT TEE SEE DETAIL 4/SW2.2
  HYDRANT VALVE SHALL BE MUELLER RESILIENT SEAT GATE VALVE ONLY.
  DO NOT LEAVE THE TRACED WIRE IN A POSITION TO BECOME TANGLED
  AROUND THE GATE VALVE. RIN THE WIRE FROM THE TRENCH, UP
  BETWEEN THE CONCRETE VALVE FROM AND THE PIPC INSTEAD. BETWEEN THE CONCRETE VALVE BOX AND THE PVC INSERT.



FIRE HYDRANT DETAIL C10.0



STRICKER

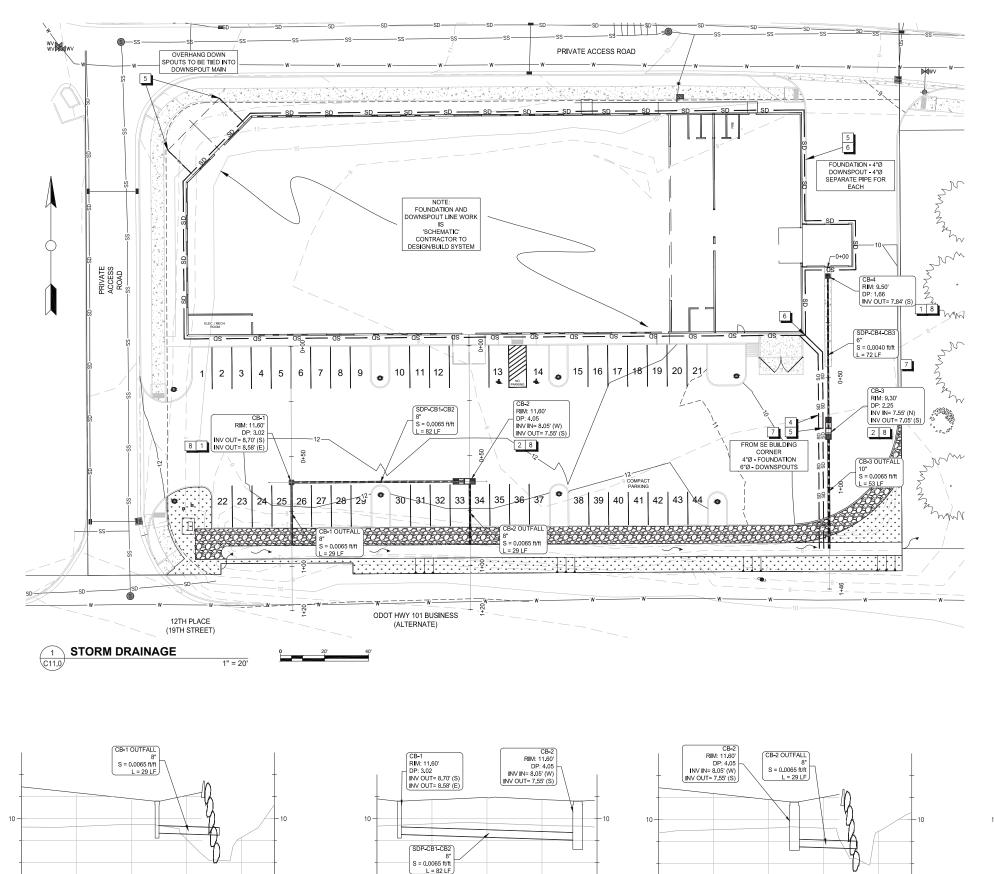
FIR ∞ DOMESTIC SERVICE, ROBY'S FURNITURE S--WATER

DETAIL: RAWN: 05/28/202 ISSUED: 05/28/2021 SCALE: AS SHOWN OB N.O: 2012211249

Drawing N.O:

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### STORM DRAINAGE CONSTRUCTION NOTES

- FURNISH AND INSTALL ODOT TYPE 3 CATCH BASIN WITH 6" RISER W/6" CONCRETE RISER. SEE DETAIL 2, SHEET C11.1 AND ODOT DETAIL RD 378.
- FURNISH AND INSTALL CONTECT CONCRETE CATCH BASIN STORMFILTER DUAL UNIT. SEE SHEET C11.1. ALL CONTECH CATCH BASIN STORMFILTER UNITS TO BE PROVIDED WITH ANTI-BUOYANCY RINGS.
- FURNISH AND INSTALL 8" PVC ASTM 3034 PVC PIPE SHALL BE USED AS PER TRENCH DETAIL 1, SHEET C11.1 4
- FURNISH AND INSTALL 6" PVC ASTM 3034 PVC PIPE SHALL BE USED AS PER TRENCH DETAIL 1, SHEET C11.1 5 FURNISH AND INSTALL 4" PVC ASTM 3034 PVC PIPE SHALL BE USED AS PER TRENCH DETAIL 1, SHEET C11.1
- 6 FURNISH AND INSTALL CHECK VALVE FOR FOUNDATION DRAIN - LOCATION TO BE DETERMINED IN FIELD AND
- FOR STORM PIPES (STORM, FOUNDATION, AND DOWNSPOUTS) CONTROLLED DENSITY FILL (CDF CONTROLLED LOW STRENGTH MATERIALS - ODDT SECTION 00442) SHALL BE USED WITH PIPES LESS THAN 24" OF COVER. THIS SHALL BE IN VEHICLE TRAVEL AREAS.
- PER GEOTECHNICAL REPORT, OVER-EXCAVATE BENEATH ALL CATCH BASINS AND PROVIDE 2 FT TO 4 FT OF STRUCTURAL FILL AS FOUNDATION SUPPORT. INSTALL MIRAFI 500X OR APPROVED EQUAL GEOTECHNICAL TEXTILE BETWEEN EXISTING GROUND SUB-BASE AND STRUCTURAL FILL.

	Structure Table
Structure Name	Structure Details
CB-3	RIM = 9.30' SDP-CB4-CB3 INV IN = 7.55' CB-3 OUTFALL INV OUT = 7.05'
CB-4	RIM = 9.50' SDP-CB4-CB3 INV OUT = 7.84'
CB-1	RIM = 11.60' CB-1 OUTFALL INV OUT = 8.70' SDP-CB1-CB2 INV OUT = 8.58'
CB-2	RIM = 11.60' SDP-CB1-CB2 INV IN = 8.05' CB-2 OUTFALL INV OUT = 7.55'

PIPE TABLE - Storm							
NAME	SIZE	START	END	LENGTH (±)	SLOPE	START INV	END INV
SDP-CB4-CB3	6"	CB-3	CB-4	72'	0.40%	7.55'	7.84'
CB-3 OUTFALL	10"	CB-3		52'	0.65%	7.05'	6.71'
CB-2 OUTFALL	8"	CB-2		29'	0.65%	7.55'	7.36'
SDP-CB1-CB2	8"	CB-1	CB-2	81'	0.65%	8.58'	8.05'
CB-1 OUTFALL	8"	CB-1		28'	0.65%	8.70'	8.52'

### FOUNDATION AND DOWNSPOUT STORM DRAINAGE NOTES

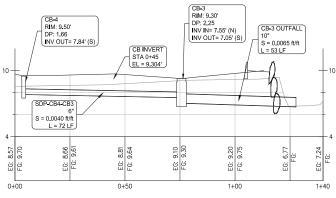
DESIGN - BUILD: CONTRACTOR SHALL FURNISH AND INSTALL ALL DRAINAGE SYSTEMS.

### COMMON DESIGN ELEMENTS:

- a. 4" OR 6" ASTM 3034 SDR 35 PVC PIPE GASKETED JOINTS
- b. CLEANOUTS INSTALLED AS PER COMMON TRADE PRACTICE. CONTRACTOR TO PROVIDE DRAWING SHOWING LOCATIONS. CLEANOUTS TO BE BROUGHT TO THE SURFACE. CLEANOUTS IN CONCRETE OR ASPHALT SHALL BE CAST
- c. TRACER WIRE INSTALLED AND BROUGHT UP BY CLEANOUTS.
- d. PVC MAINS TO HAVE A MINIMUM OF 2 FEET OF COVER OVER PIPE IN CONCRETE AND ASPHALT AREAS.
- e. DRAINS TO HAVE A MINIMUM OF 1/4" PER 12" GRADE ONCE PAST THE BUILDING GOING TO THE DRAINAGE (SOUTH). CONTRACTOR TO VERIFY DEPTHS AND GRADES, PRIOR TO INSTALLATION.
- f. NOTE: PLAN DRAWING IS SCHEMATIC ONLY CONTRACTOR TO PROVIDE DRAWING WITH GRADES AND DEPTHS PRIOR TO INSTALLATION.

### FOUNDATION DRAIN

- a. SHALL DESIGN AND INSTALL AS PER GEO -TECH'S DETAIL 3, SHEET C11.1.
- DOWN SPOUTS
- a. SHALL DESIGN AND BUILD.
- b. 4"Ø PIPE SHALL BE USED AROUND THE PERIMETER OF THE BUILDING. 6"Ø WILL BE USED FOR THE OUTFALL PIPING.
- c. CONTRACTOR TO PROVIDE:
- LOCATION AND NUMBER OF DOWNSPOUTS EACH DOWNSPOUT SHALL HAVE WYE AND THREADED PLUG CLEANOUT SUBMITTAL ON DOWNSPOUTS (SQUARE OR ROUND) SUBMITTAL ON PIPE FITTING DOWNSPOUT (SQ. OR ROUND) TO WYE









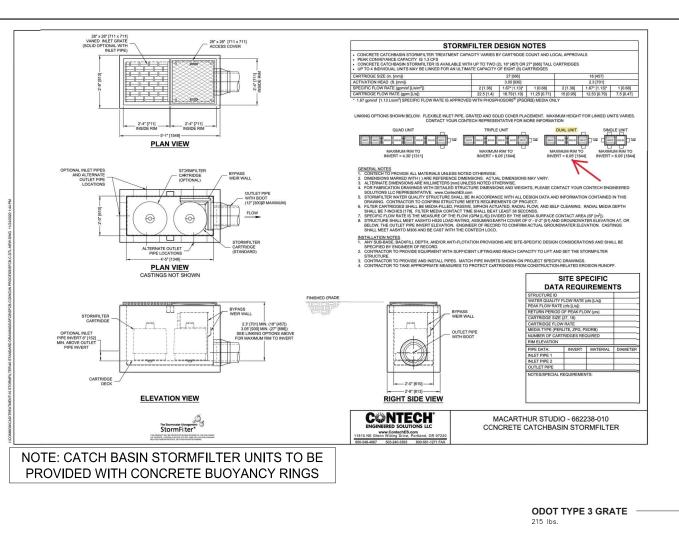
**PROFILES** ∞ ORMWATER DRAINAGE--PLAN ROBY'S FURNITURE

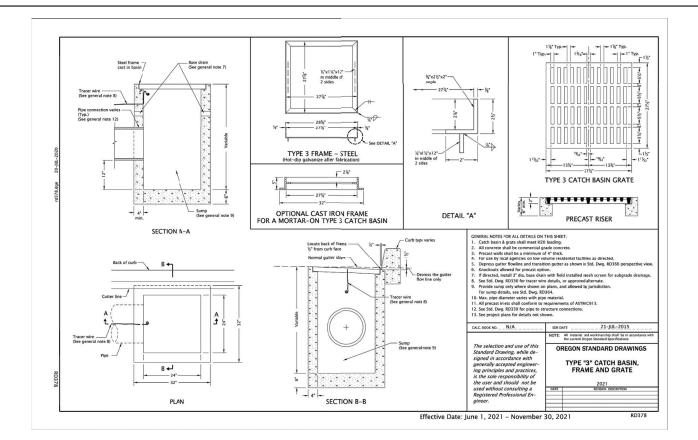
ST DRAWN: 05/28/202 SCALE: AS SHOWN OB N.O: 2012211249

Drawing N.O:

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EG: 9.54 FG: 11.72 9 1+00 CB-1 PROFILE: 0+00-1+15 HORIZ SCALE: 1 in = 20 ft VERT SCALE: 1 in = 4 ft CB-1 TO CB-2 PROFILE: 0+00-1+00 HORIZ SCALE: 1 in = 20 ft VERT SCALE: 1 in = 4 ft CB-3 PROFILE: 0+00-1+40 HORIZ SCALE: 1 in = 20 ft VERT SCALE: 1 in = 4 ft CB-2 PROFILE: 0+00-1+15 HORIZ SCALE: 1 in = 20 ft VERT SCALE: 1 in = 4 ft







NOTES:

\* ALL DIMENSIONS SHOWN ARE MINIMUM

① MATCH FINISH GRADE MATERIALS AS SHOWN ON PLANS.

OVER EXCAVATE & INSTALL 1-1/2" MINUS (5) COMPACTED CRUSHED ROCK IF TRENCH FOUNDATION STABILIZATION IS REQUIRED, PER GEOTECHNICAL REPORT, EXPECT 2'-4' OVER

GEO-TECH REPORT
THE VERY SOFT, FINE-GRAINED NATIVE SOILS WILL BE

② COMPACTED 3/4"-0" CRUSHED ROCK

③ COMPACTED 3/4"-0" CRUSHED ROCK

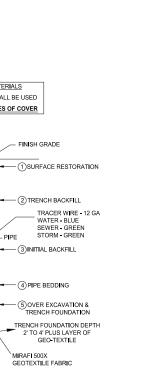
(4) COMPACTED 3/4"-0" CRUSHED ROCK

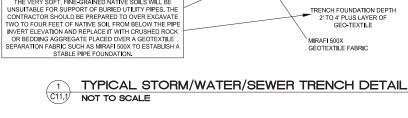
EXCAVATION REQUIREMENT.

\* MINIMUM COVER: STORM MAIN = 24" WATER MAIN = 30"

TRENCH MATERIAL:

SEWER MAIN = 36"





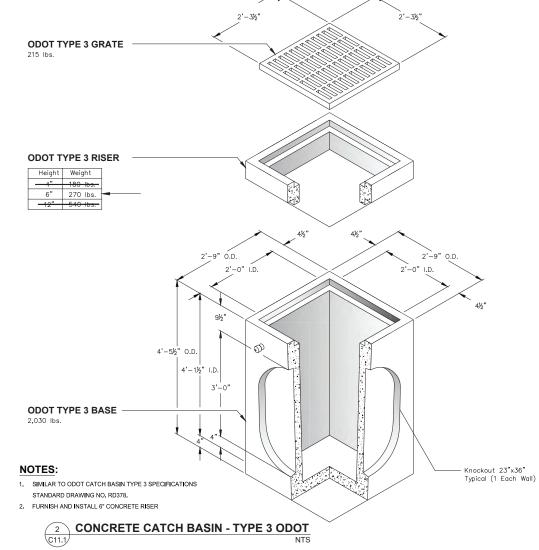
CONTROLLED LOW STRENGTH MATERIALS

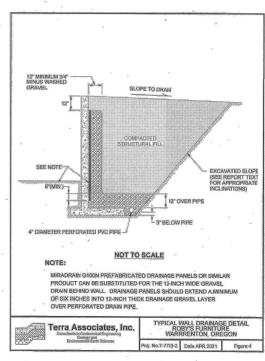
ODOT SECTION 00442 (CLSM - CDF): SHALL BE USED FOR ANY PIPE WITH LESS THAN 24 INCHES OF COVER

- FINISH GRADE

■ (3)INITIAL BACKFILL

(4) PIPE BEDDING





FOUNDATION DRAIN NOT TO SCALE

> REDUCED DRAWING **VERIFY SCALE**

BAR IS ONE INCH ON ORIGINAL DRAW IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

STORMWATER WATER QUALITY TREATMENT FACILITIES DETAILS -DRAWN: 05/28/202

ROBY'S FURNITURE

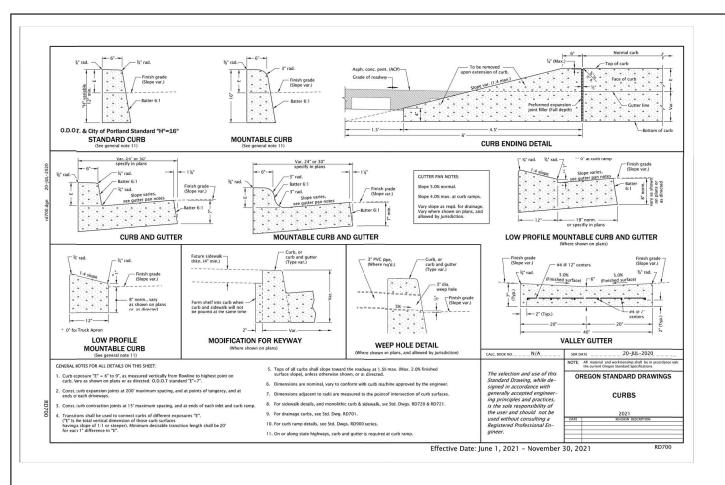
STRICKER

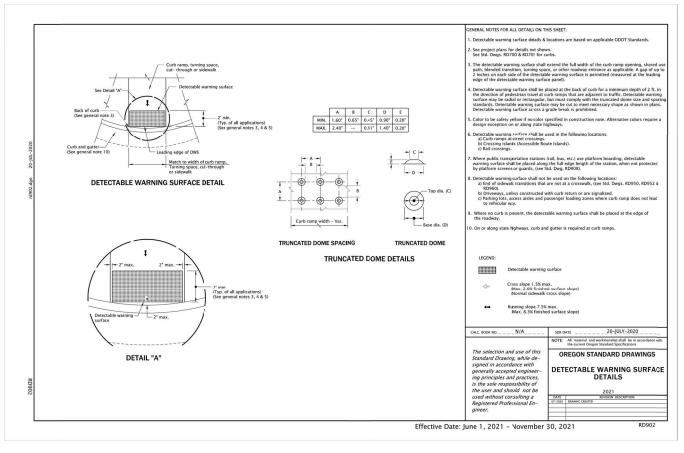
SCALE: AS SHOWN OB N.O: 2012211249

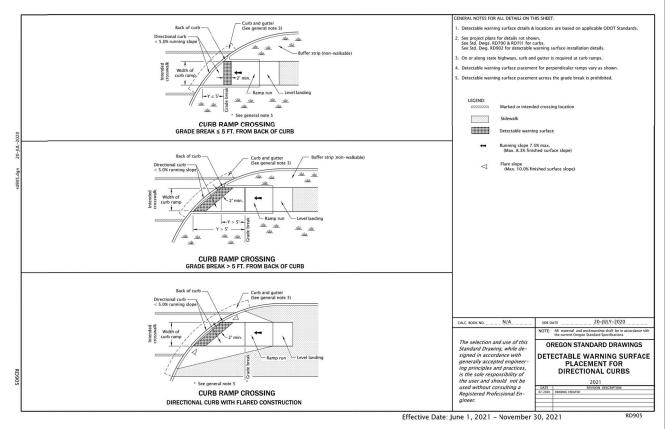
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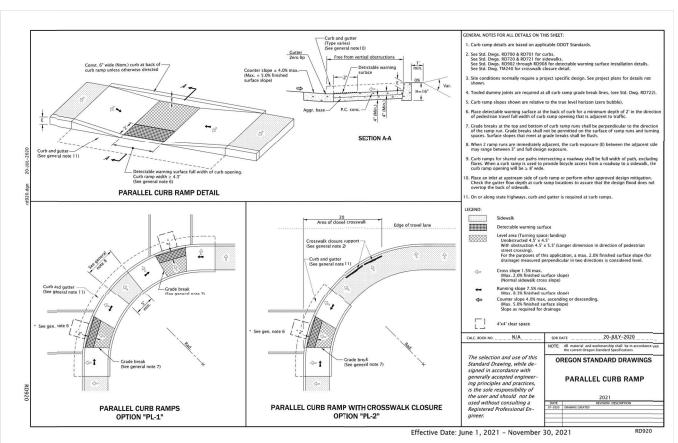
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Garibaldi, OR 97118 503-322-2442 strickerengineering.com John@strickerengineering.cc



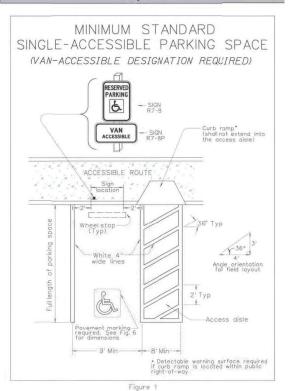
ROBY'S FURNITURE
DETAILS--ROADS/SIDEWALKS/CURBS

DRAWN: 05/28/2021
ISSUED: 05/28/2021
SCALE: AS SHOWN
JOB N.O: 2012211249

Drawing N.O:

C12.0

### OREGON TRANSPORTATION COMMISSION Standards for Accessible Parking Places



### OREGON TRANSPORTATION COMMISSION Standards for Accessible Parking Places May 2012

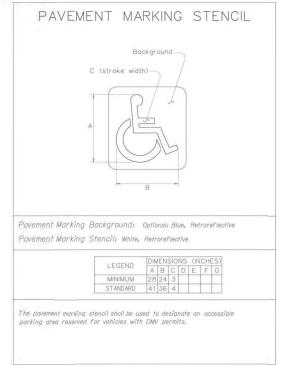
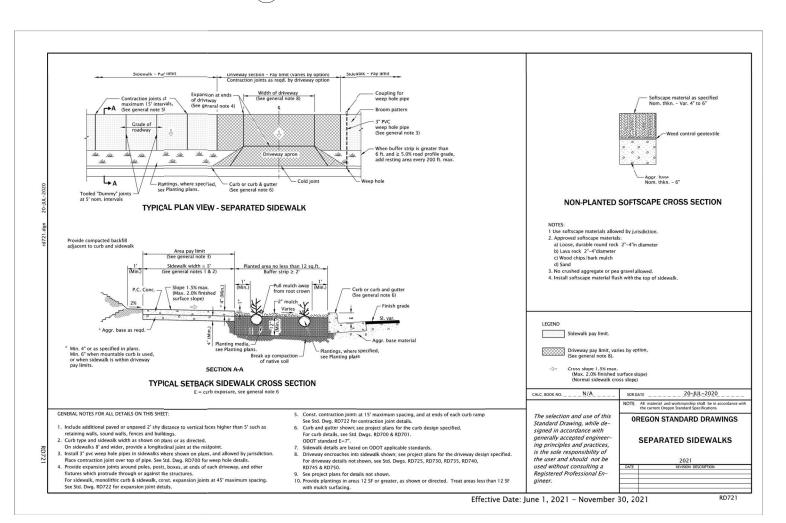
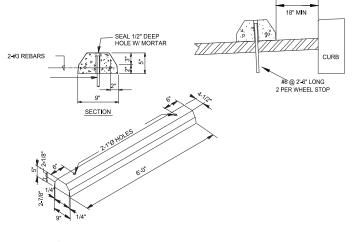


Figure 6







PRECAST CONCRETE WHEEL STOP C13.0 SCALE: NTS



ROBY'S FURNITURE DETAILS--ADA SIDEWALK/CURB RAMPS

DRAWN: 05/28/2021 ISSUED: 05/28/2021

SCALE: AS SHOWN JOB N.O: 2012211249

Drawing N.O:

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REDUCED DRAWING VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

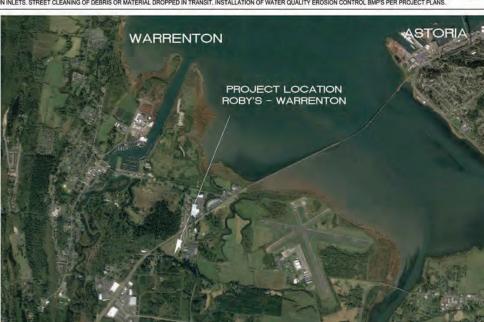
380

- ALL SITES SHALL SUBMIT AN EROSION CONTROL PLAN FOR REVIEW, REGARDLESS OF SIZE. NEW DEVELOPMENTS IMPACTING AREAS OF 10,000 SQUARE FEET OR GREATER MUST OBTAIN AN EROSION CONTROL PERMIT.
- - a. THE METHODS AND/OR FACILITIES TO BE USED TO PREVENT EROSION AND POLLUTION CREATED FROM THE DEVELOPMENT BOTH DURING AND AFTER CONSTRUCTION.
  - b. LIMITS OF CLEARING BY FLAGGING BOUNDARIES IN THE FIELD BEFORE STARTING SITE GRADING OR CONSTRUCTION. STAGING AREAS SHALL BE INCLUDED
  - c. AN ANALYSIS OF SOURCE CONTROLS, SUCH AS DETENTION AND STORAGE DURING CONSTRUCTION AS AN ALTERNATIVE METHOD TO CONTROL EROSION FROM STORM WATER RUNOFF.

  - A DESCRIPTION OF HISTORIC LOCALIZED FLOODING PROBLEMS RESULTING FROM SURFACE WATER RUNOFF, FEMA OR FLOODING PROBLEMS KNOWN TO THE COMMUNITY OR THE CITY.
- EROSION CONTROL PLAN SHALL INCLUDE A SCHEDULE FOR IMPLEMENTATION OF EROSION MEASURES. THE SCHEDULE SHALL INCLUDE

  - ON SITES WHERE VEGETATION AND GROUND COVER HAVE BEEN REMOVED, CITY APPROVED GROUND COVER SHALL BE RE-ESTABLISHED BY SEEDING AND MULCHING ON OR BEFORE SEPTEMBER 1ST WITH THE GROUND COVER ESTABLISHED BY OCTOBER 15TH, THE OPEN AREAS SHALL BE PROTECTED THROUGH THE WET SEASON WITH STRAW MULCH, EROSION BLANKETS, OR OTHER APPROVED METHODS, WHERE APPROPRIATE, WITH LONG TERM MAINTENANCE PLAN.
  - d. WATER CONTAINING SEDIMENT SHALL NOT BE DISCHARGED INTO THE SURFACE WATER MANAGEMENT SYSTEM, WETLANDS OR STREAMS WITHOUT FIRST PASSING THROUGH AN APPROVED SEDIMENT FILTERING FACILITY OR DEVICE, DISCHARGE FROM TEMPORARY SEDIMENTATION PONDS OR DETENTION FACILITIES USED FOR SEDIMENTATION DURING CONSTRUCTION SHALL BE CONSTRUCTED TO CITY STANDARDS TO PROVIDE ADEQUATE SEDIMENT FILTRATION.
- A SITE-SPECIFIC PLAN PREPARED BY A REGISTERED PROFESSIONAL ENGINEER SHALL BE REQUIRED AND ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED FOR SITES HAVING ONE OR MORE OF THE FOLLOWING CHARACTERISTICS:
  - a. SITES GREATER THAN FIVE (5) ACRES DISTURBED
  - b. SITES WITH SLOPES GREATER THAN 15 PERCENT ON ANY PORTION OF THE SITE.
  - c. SITES WITH HIGHLY ERODIBLE SOILS.

  - e. SITES WHERE GRADING AND CLEARING ACTIVITIES ARE LIKELY BETWEEN OCTOBER 1ST AND APRIL 30TH
  - ADDITIONAL EROSION CONTROL MEASURES MAY INCLUDE ONE OR MORE OF THE FOLLOWING
    - a. LIMITED AREA CLEARED AT ANY ONE TIME:
    - ADDITIONAL DRAINAGE REQUIREMENTS DURING CONSTRUCTION:
    - c. FILTERING OR TREATMENT OF RUNOFF:
    - ADDITIONAL WATER QUALITY:
    - e. ADDITIONAL EROSION CONTROL TO COVER PORTIONS OF THE SITE:
    - MAINTAINING A VEGETATED BUFFER STRIP BETWEEN SITE AND SENSITIVE AREA:
    - ADDITIONAL FACILITIES TO REDUCE VOLUME AND VELOCITY OF WATER RUNOFF
    - IF THERE ARE NO WORKABLE ALTERNATIVES, LIMIT CLEARING AND GRADING IN SOME AREAS BETWEEN OCTOBER 1ST AND APRIL 30TH,
    - ALL DISTURBED LAND AREAS THAT SHALL REMAIN UNWORKED FOR 14 DAYS OR MORE SHALL BE PHYSICALLY COVERED IN THE WET WEATHER SEASON
- SITE CLEANUP AND DEBRIS REMOVAL. CONTRACTOR TO REMOVE EXCESSIVE SOIL AND DEBRIS DEPOSITED ONTO STREETS OR INTO THE CITY STORM DRAINAGE SYSTEM. STREET CLEANUP ON STREETS EVERY DAY AND UPON COMPLETION OF WORK OR AS REQUIRED BY THE CITY.
- DUST CONTROL ON STREETS ACCESSIBLE AND USED BY RESIDENTS IS REQUIRED.
- MINIMUM EROSION CONTROL MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING, SEDIMENT FENCES ALONG THE DOWNGRADE SLOPE OF THE PROJECT PERIMETER, FILTER BAGS AT CATCH BASIN INLETS. STREET CLEANING OF DEBRIS OR MATERIAL DROPPED IN TRANSIT, INSTALLATION OF WATER QUALITY EROSION CONTROL BMP'S PER PROJECT PLANS.









**DETAIL DESIGNATION** 



1. DESIGNATION NUMBER CALLS OUT NOTES ON CURRENT SHEET.

2. NOTES ARE NOT INTERCHANGEABLE BETWEEN SHEETS

NOTE DESIGNATION

# **ROBY'S FURNITURE**

### WARRENTON OREGON

### SURVEY DATA

REFERENCE DATUM: STATION INDEX ID: PID SC0559'

**ELEVATION: 8.36 FT** 

LOCATION: BETWEEN HIGHWAY 101 & MARLIN AVE. ON NORTH SIDE OF ALT. HIGHWAY 101. T.C. #81027 AB06900, T8N, R10W, SECTION 27 LATITUDE 46.153934, LONGITUDE -123.906084



VICINITY MAP

### SITE DATA

TOTAL SITE AREA: APPROXIMATE. 70,500 SQ. FT (1.61 ACRES)

BUILDING AREA: 27,550 SQ. FT

LANDSCAPED AREA: 10,776 SQ. FT. (0.25 ACRES) (15.2% OF TOTAL SITE AREA)

TAX MAP: 81027AB06400

LOCATION DESCRIPTION: NE 1/4 OF SECTION 27, T. 8 N., R. 10 W., LAT. 46.153934, LONGITUDE -123.906074W.M. CITY OF WARRENTON, CLATSOP COUNTY, OREGON

### PROJECT TEAM:

5111 N. COAST HIGHWAY, NEWPORT, OR 97365 CONTACT: KYLE LANGLIERS, REGIONAL MAN

PROJECT ENGINEER: STRICKER ENGINEERING PO BOX 366 GARIBALDI, OR 97118 CONTACT: JOHN DOYLE, PRESIDENT PHONE: (503) 322-2442

CIVIL DESIGN: YOUNGS RIVER ENGINEERING, LLC

12220 113TH AVE, STE 130. KIRKLAND, WA 98034 CONTACT: JOHN SADLER, SENIOR ENGINEERING GEOLOGIST THEODORE SCHEPPER, P.E., PRINCIPAL

ENVIRONMENTAL CONSULTANT: BRIDGEWATER GROUP COMMERCE PLAZA, SUITE 235, 7100 HAMPTON ST. TIGARD, OR 97223 CONTACT: JUSTIN POUNDS, RG PHONE: (503) 675-5252

CONSTRUCTION CONTRACTOR (SITE WORK): BIG RIVER CONSTRUCTION, INC. 35084 HIGHWAY 101 BUSINESS ASTORIA, OR 97103 CONTACT: PHIL GAFFNEY PHONE: (503) 338-3878

### UTILITY PROVIDERS:

CITY OF WARRENTON ATTN: COLLIN STELZIG PUBLIC WORKS DIRECTOR 45 SW 2ND STREET WARRENTON OREGON 97146

WATER & SANITARY SEWER CITY OF WARRENTON ATTN: COLLIN STELZIG PUBLIC WORKS DIRECTOR 45 SW 2ND STREET WARRENTON OREGON 97146

ATTN: MARILYN BROCKEY 2340 SE DOLPHIN WARRENTON OREGON 97146 503-861-6005

CABLE TELEVISION
CHARTER SPECTRUM COMMUNICATIONS ATTN: VINNY BILLECI 419 GATEWAY AVENUE **ASTORIA OREGON 97103** 503-338-7710

GAS NW NATURAL GAS ATTN: RICH GIRARD 220 NW 2ND AVE PORTLAND OREGON 97209 503-226-4211 EXT. 2980 503-281-6169 (CELL)

TELEPHONE CENTURY LINK ATTN: MIKE MEISNER 481 INDUSTRY ASTORIA OREGON 97103 503-242-7676

### **ESCP DRAWING INDEX**

C14.1 ESCP - NOTES C14.2 ESCP - PHASE I & II C14.3 ESCP - BUILDING CONSTRUCTION C14.4 ESCP - DETAILS

# REDUCED DRAWING

F NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

ROB 2

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SHEET

SSUED: 05/28/2021 CALE: AS SHOWN

JOB N.O: 2012211249

STRICKER

Drawing N.O:

ENDIN

VICINITY MAP

NOTE DESIGNATION

### SITE DESCRIPTION

ON-SITE CONSTRUCTION ACTIVITIES	SITES TO BE CONSTRUCTED WIZE HASES CONSTRUCTION NOLLOWES THE DEVELOPMENT OF RETAL FURNITURE STORE WITH PARKING AND LOADING DOOK. PHASE I WILL CONSIT OF SURCHARGING THE SITE WITH STRUCTURAL ROOK PILL. PHASE 2 WILL BE THE CONSTRUCTION OF THE BUILDING AND SURCHARGING THE PARKINGLOT.
OFF-SITE CONSTRUCTION SUPPORT ACTIVITY AREAS COVERED BY THIS PERMIT (SEE SECTION 1.3.2)	RIGHT OF WAY IMPROVEMENTS INCLUDE A SPHALT WIDENING. NOTE: ALL STORMWATER WILL FLOW TO EXISTING BASINS DESIGN AND INSTALLED IN THE PRIOR SITE DEVELOPMENT (COMMERCAL SHOPPING CENTER)
PROPERTY SIZE (ACRES)	1.61
TOTAL DISTURBED AREA (NEAREST QUARTER ACRE)	1.61
303(D) CATEGORY 4 AND 5 IMPAIRMENT STATUS OF EACH RECEIVING WATER BODY	N/A
WATERBODIES MPACTED BY CONSTRUCTION ACTIVITIES WITH 401 WATER QUALITY CERTIFICATIONS, USACE PERMIT, DSL PERMIT, AND/OR ANY OTHER APPLICABLE AGENCY AUTHORIZATION PERMIT NUMBERS.	A COE AND ISSL JOINT PERMIT NO. XXXXXXX
ESTIMATED START DATES OF CLEARING AND GRUBBING	AUGUST 2021
ESTIMATED START DATES OF MASS GRADING	AUGUST 2021
ESTIMATED START DATES OF DEMOLITION ACTIVITIES	N/A
ESTIMATED START DATES OF SITE PREPARATION (I.E., EXCAVATING, CUTTING AND FILLING)	AUGUST 2021
ESTIMATED START DATES OF FINAL GRADING, AND CREATION OF SOIL AND VEGETATION STOCKPILES REQUIRING STABILIZATION	MAY 2022
ESTIMATED DATES OF TEMPORARY OR FINAL STABILIZATION OF EXPOSED AREAS	DECEMBER 2022
ESTIMATED DATES OF REMOVAL OF TEMPORARY STORMMATER CONTROLS AND CONSTRUCTION EQUIPMENT OR VEHICLES	DECEMBER 2022
ESTIMATED FINAL END DATE OF CONSTRUCTION-RELATED POLLUTANT-GENERATING ACTIVITIES.	DECEMBER 2022
FILL MATERIAL	IMPORTED STRUCTURAL MATERIAL
SITE SOILS	QUATERNARY ALLUVIUM (FINE SILTS)
SLOPES	0%-3%
AUTHORIZED NON-STORMWATER DISCHARGES IN SECTION 1.4 THAT WILL OR MAY OCCUR;	WATER USED FOR DUST CONTROL
FOLLUTANT-GENERATING ACTIVITIES ON THE SITE WITH INVENTORY OF POLLUTANTS OR POLLUTANT CONSTITUENTS WHICH COULD BE DISCHARGED IN STORMWATER FROM THE CONSTRUCTION SITE	GROUND DISTURBANCE GENERATING SEDIMENT. CONCRETE WASHOUT, AND EQUIPMENT SPILLS
	STORMWATER CONTROLS:
SEDIMENT FENCE	SEDIMENT FENCING IS A TEMPORARY SEDIMENT TRAP DONISSTING OF AN ENTRENCHED GEOTEXTILE STRETCHED ACROSS AND A TRACHED TO SUPPORTING POSTS. SEDIMENT FENCES ARE ADEQUATE TO TREAT FLOW DEPTHS CONSISTENT WITH OVERLAND OR SHEET FLOW
CONSTRUCTION ENTRANCE	A CONSTRUCTION ENTRANCE IS A STABILIZED ROCK PAD, PLACED AT CONSTRUCTION SITE NGRESS/EGRESS LOCATIONS TO REDUCE THE AMOUNT OF SEDMENT TRANSPORTED ONTO PAVED ROADS BY VEHICLES OR RUNOFF.
SOIL STOCKPILE PROTECTION	PROVIDES MINED A TE PROTECTION TO SLOPES AND STOCKPLES. PLASTIC SHEETING HAS BEEN KNOWN TO TRANSFER EROSION PROBLEMS BECAUSE WAITER WILL SHEET FLOW OFF THE FLASTIC AT HIGH VELOCITY. THIS IS USUALLY ATTREUTABLE TO POOR APPLICATION, INSTALLATION AND MAINTENANCE.
ROCK ENERGY DISSIPATER	OUTLET PROTECTION REDUCES THE SPEED OF CONCENTION TED FLOW THEREBY PREVENTING SCOUR AT CONVEYANCE OUTLETS BY DISSAPITING SHIRROY, OUTLET PROTECTION LOWERS THE POTENTIAL FOR DOWNSTREAM BROSON OUTLET PROTECTION INCLUDES RETRAPLINED BASINS, CONCRETE A PRONS. AND SETTLING BASINS, OUTLET PROTECTION PREVENTS SCOUR AT 3 TORM.
CONCRETE WASHOUT	PROVIDES DESIGNATED WASHOUT AREA TO REDUCE THE DISCHARGE OF POLLUTANTS

### STORM MANAGEMENT PLAN

### PRIOR TO ANY SIGNIFICANT EXCAVATION

- 1. INSTALL BEST MANAGEMENT PRACTICE (BMP) FOR EROSION PREVENTION
- 2. INSTALL CONSTRUCTION ENTRANCE
- 3. MAINTAIN AS MUCH EXISTING VEGETATION AS POSSIBLE

### DURING CONSTRUCTION

- 1. IF THE CONSTRUCTION ENTRANCE IS NOT PREVENTING SEDIMENT FROM BEING TRACKED ONTO PAVEMENT, ALTERNATIVE MEASURES TO KEEP STREETS FREE OF SEDIMENT MUST BE USED. THESE INCLUDE STREET VACUUM SWEEPING AND PLACING SEDIMENT IN DESIGNATED STOCKPILE, INCREASING THE DIMENSIONS OF THE ENTRANCE AND/OR INSTALLATION OF A WHEEL WASH,
- 2. REMOVE ANY SOIL THAT LEAVES THE SITE AND ENTERS DOWNSTREAM DRAINAGE SYSTEM
- 3. THE CONTRACTOR SHALL MAINTAIN ALL EROSION, SEDIMENT AND POLLUTANT CONTROL MEASURES, TEMPORARY AND PERMANENT, IN PROPER FUNCTIONING ORDER, WITHIN 24 HOURS FOLLOWING A STORM OR HIGH WIND EVENT, THE CONTRACTOR MUST ADJUST, REPAIR AND REPLACE EROSION, SEDIMENT AND POLLUTANT CONTROL MEASURES TO ENSURE THAT THE MEASURES ARE FUNCTIONING PROPERLY.
- 4. ALL STOCKPILED MATERIALS SHALL BE PROTECTED WITH TEMPORARY SOIL STABILIZATION MEASURES SUCH AS PLASTIC SHEETING SECURED WITH TIE DOWNS AND SANDRAGS

RE-SEED ALL DISTURBED SOILS. SEED SHALL BE FROM BLUE TAG STOCK AND FROM THE LATEST CROP AVAILABLE. THE FOLLOWING MIXTURES ARE APPROPRIATE FOR THE OREGON NORTH COAST:

### SOIL CONSERVATION MIX:

HYBRID RYE: 3 LBS/ACRE 9% TALL FESCUE: 18 LBS/ACRF 52% CREEPING RED FESCUE: 8 LBS/ACRE 24% 1 LBS/ACRE 3% 4 LBS/ACRE 12% BIG TREFOIL:

### VISUAL MONITORING PROGRAM

SITE CONDITION	MINIMUM FREQUENCY		
ACTIVE PERIODS	DALLY WHEN STORMWATER RUNOFF, INCLUDING RUNOFF FROM SNOW MELT, IS OCCURRING. AT LEAST ONCE EVERY		
ACIIVE PERIODS	FOURTEEN (14) CALENDAR DAY'S, REGARDLESS OF WHETHER STORMWATER RUNOFF IS OCCURRING.		
PRIOR TO THE SITE BECOMING INACTIVE OR IN ANTICIPATION OF SITE INACCESSIBILITY	ONCE TO BYSURE THAT EROSION AND SEDIMENT CONTROL MEASURE ARE IN WORKING ORDER, ANY NECESSARY		
THOR TO THE OTHER DECOMINATION OF THE PROCESSION OF	MAINTENANCE AND REPAIR MUST BE PRIOR TO LEAVING THE SITE.		
INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS	ONCE EVERY MONTH.		
PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCLEMENT WEATHER	F FRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT AND ACCESSIBLE DISCHARGE POINT OR		
	DOWNSTREAM LOCATION.		
PERIODS DURING WHICH DISCHARGE IS UNLIKELY DUE TO EROZEN CONDITIONS	MONTHLY. RESUME MONITORING IMMEDIATELY UPON MELT, OR WHEN WEATHER CONDITIONS MAKE DISCHARGES		
PENDED BONNIO WHICH ENGLIS ONE NEET DOE TO THOSE BY CONDITIONS	UKBLY.		

### **OREGON STANDARD ESCP NOTES**

- 1. ONCE KNOWN, INCLUDE A LIST OF ALL CONTRACTORS THAT WILL ENGAGE IN CONSTRUCTION ACTIVITIES ON SITE, AND THE AREAS OF THE SITE WHERE THE CONTRACTOR(S) WILL ENGAGE IN CONSTRUCTION ACTIVITIES. REVISE THE LIST AS APPROPRIATE UNTIL PERMIT COVERAGE IS TERMINATED (SECTION 4.4.C.I). IN ADDITION, INCLUDE A LIST OF ALL PERSONNEL (BY NAME AND POSITION) THAT ARE RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND MAINTENANCE OF STORMWATER CONTROL MEASURES (E.G., ESCP DEVELOPER, BMP INSTALLER (SEE SECTION 4.10), AS WELL AS THEIR INDIVIDUAL RESPONSIBILITIES.
- 2. VISUAL MONITORING INSPECTION REPORTS MUST BE MADE IN ACCORDANCE WITH DEQ 1200-C PERMIT REQUIREMENTS. (SECTION 6.5)
- 3. INSPECTION LOGS MUST BE KEPT IN ACCORDANCE WITH DEQ'S 1200-C PERMIT REQUIREMENTS. (SECTION 6.5.Q)
- 4. RETAIN A COPY OF THE ESCP AND ALL REVISIONS ON SITE AND MAKE IT AVAILABLE ON REQUEST TO DECLAGENT, OR THE LOCAL MUNICIPALITY, (SECTION 4.7)
- 5. THE PERMIT REGISTRANT MUST IMPLEMENT THE ESCP. FAILURE TO IMPLEMENT ANY OF THE CONTROL MEASURES OR PRACTICES DESCRIBED IN THE ESCP IS A VIOLATION OF THE PERMIT. (SECTIONS 4 AND 4.11)
- 6. THE ESCP MUST BE ACCURATE AND REFLECT SITE CONDITIONS. (SECTION 4.8)
- 7. SUBMISSION OF ALL ESCP REVISIONS IS NOT REQUIRED, SUBMITTAL OF THE ESCP REVISIONS IS ONLY UNDER SPECIFIC CONDITIONS, SUBMIT ALL NECESSARY REVISION TO DEG OR AGENT WITHIN 10 DAYS.
- 8. SEQUENCE CLEARING AND GRADING TO THE MAXIMUM EXTENT PRACTICAL TO PREVENT EXPOSED INACTIVE AREAS FROM BECOMING A SOURCE OF EROSION. (SECTION 2.2.2)
- 9. CREATE SMOOTH SURFACES BETWEEN SOIL SURFACE AND EROSION AND SEDIMENT CONTROLS TO PREVENT STORMWATER FROM BYPASSING CONTROLS AND PONDING. (SECTION 2.2.3)
- 10. IDENTIFY, MARK, AND PROTECT (BY CONSTRUCTION FENCING OR OTHER MEANS) CRITICAL RIPARIAN AREAS AND VEGETATION INCLUDING IMPORTANT TREES AND ASSOCIATED ROOTING ZONES, AND VEGETATION AREAS TO BE PRESERVED. IDENTIFY VEGETATIVE BUFFER ZONES BETWEEN THE SITE AND SENSITIVE AREAS (E.G., WETLANDS), AND OTHER AREAS TO BE PRESERVED, ESPECIALLY IN PERIMETER AREAS. (SECTION 2.2.1)
- 11. PRESERVE EXISTING VEGETATION WHEN PRACTICAL AND RE-VEGETATE OPEN AREAS. RE-VEGETATE OPEN AREAS WHEN PRACTICABLE BEFORE AND AFTER GRADING OR CONSTRUCTION. IDENTIFY THE TYPE OF VEGETATIVE SEED MIX USED. (SECTION 2.2.5)
- 12. MAINTAIN AND DELINEATE ANY EXISTING NATURAL BUFFER WITHIN THE 50-FEET OF WATERS OF THE STATE. (SECTION 2.2.4)
- 13. INSTALL PERIMETER SEDIMENT CONTROL, INCLUDING STORM DRAIN INLET PROTECTION AS WELL AS ALL SEDIMENT BASINS, TRAPS, AND BARRIERS PRIOR TO LAND DISTURBANCE. (SECTIONS 2.1.3)
- 14. CONTROL BOTH PEAK FLOW RATES AND TOTAL STORMWATER VOLUME, TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNELS AND STREAM BANKS. (SECTIONS 2.1.1. AND 2.2.16)
- 15. CONTROL SEDIMENT AS NEEDED ALONG THE SITE PERIMETER AND AT ALL OPERATIONAL INTERNAL STORM DRAIN INLETS AT ALL TIMES DURING CONSTRUCTION, BOTH INTERNALLY AND AT THE SITE BOUNDARY,
- 16. ESTABLISH CONCRETE TRUCK AND OTHER CONCRETE EQUIPMENT WASHOUT AREAS BEFORE BEGINNING CONCRETE WORK, (SECTION 2.2.14)
- 17. APPLY TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES IMMEDIATELY ON ALL DISTURBED AREAS AS GRADING PROGRESSES. TEMPORARY OR PERMANENT STABILIZATION MEASURES ARE NOT REQUIRED FOR AREAS THAT ARE INTENDED TO BE LEFT UNVEGETATED, SUCH AS DIRT ACCESS ROADS OR UTILITY POLE PADS. (SECTIONS 2.2.20 AND 2.2.21)
- 18. ESTABLISH MATERIAL AND WASTE STORAGE AREAS, AND OTHER NON-STORMWATER CONTROLS. (SECTION 2.3.7)
- 19. KEEP WASTE CONTAINER LIDS CLOSED WHEN NOT IN USE AND CLOSE LIDS AT THE END OF THE BUSINESS DAY FOR THOSE CONTAINERS THAT ARE ACTIVELY USED THROUGHOUT THE DAY, FOR WASTE CONTAINERS THAT DO NOT HAVE LIDS, PROVIDE EITHER (1) COVER (E.G., A TARP, PLASTIC SHEETING, TEMPORARY ROOF) TO PREVENT EXPOSURE OF WASTES TO PRECIPITATION, OR (2) A SIMILARLY EFFECTIVE MEANS DESIGNED TO PREVENT THE DISCHARGE OF POLLUTANTS (E.G., SECONDARY CONTAINMENT), (SECTION 2.3.7)
- 20. PREVENT TRACKING OF SEDIMENT ONTO PUBLIC OR PRIVATE ROADS USING BMPS SUCH AS: CONSTRUCTION ENTRANCE, GRAVELED (OR PAVED) EXITS AND PARKING AREAS, GRAVEL ALL UNPAVED ROADS LOCATED ONSITE, OR USE AN EXIT TIRE WASH, THESE BMPS MUST BE IN PLACE PRIOR TO LAND. DISTURBING ACTIVITIES, (SECTION 2,2.7)
- 21. WHEN TRUCKING SATURATED SOILS FROM THE SITE, EITHER USE WATER-TIGHT TRUCKS OR DRAIN LOADS ON SITE. (SECTION 2.2.7.F)
- 22. CONTROL PROHIBITED DISCHARGES FROM LEAVING THE CONSTRUCTION SITE, I.E., CONCRETE WASH-OUT, WASTEWATER FROM CLEANOUT OF STUCCO, PAINT AND CURING COMPOUNDS. (SECTIONS 1.5 AND
- 23. ENSURE THAT STEEP SLOPE AREAS WHERE CONSTRUCTION ACTIVITIES ARE NOT OCCURRING ARE NOT DISTURBED. (SECTION 2.2.10)
- 24. PREVENT SOIL COMPACTION IN AREAS WHERE POST-CONSTRUCTION INFILTRATION FACILITIES ARE TO BE INSTALLED, (SECTION 2.2.12)
- 25. USE BMPS TO PREVENT OR MINIMIZE STORMWATER EXPOSURE TO POLLUTANTS FROM SPILLS; VEHICLE AND EQUIPMENT FUELING, MAINTENANCE, AND STORAGE; OTHER CLEANING AND MAINTENANCE ACTIVITIES; AND WASTE HANDLING ACTIVITIES. THESE POLLUTANTS INCLUDE FUEL, HYDRAULIC FLUID, AND OTHER OILS FROM VEHICLES AND MACHINERY, AS WELL AS DEBRIS, FERTILIZER, PESTICIDES AND HERBICIDES, PAINTS, SOLVENTS, CURING COMPOUNDS AND ADHESIVES FROM CONSTRUCTION OPERATIONS. (SECTIONS 2.2.15 AND 2.3)
- 26. PROVIDE PLANS FOR SEDIMENTATION BASINS THAT HAVE BEEN DESIGNED PER SECTION 2.2.17 AND STAMPED BY AN OREGON PROFESSIONAL ENGINEER. (SEE SECTION 2.2.17.A)
- 27. IF ENGINEERED SOILS ARE USED ON SITE, A SEDIMENTATION BASIN/IMPOUNDMENT MUST BE INSTALLED, (SEE SECTIONS 2,2,17 AND 2,2,18)
- 28 PROVIDE A DEWATERING PLAN FOR ACCUMULATED WATER FROM PRECIPITATION AND LINCONTAMINATED GROUNDWATER SEPAGE DUE TO SHALLOW EXCAVATION ACTIVITIES (SEE SECTION 2.4)
- 29. IMPLEMENT THE FOLLOWING BMPS WHEN APPLICABLE: WRITTEN SPILL PREVENTION AND RESPONSE PROCEDURES, EMPLOYEE TRAINING ON SPILL PREVENTION AND PROPER DISPOSAL PROCEDURES, SPILL KITS IN ALL VEHICLES, REGULAR MAINTENANCE SCHEDULE FOR VEHICLES AND MACHINERY, MATERIAL DELIVERY AND STORAGE CONTROLS, TRAINING AND SIGNAGE, AND COVERED STORAGE AREAS FOR WASTE
- 30. USE WATER, SOIL-BINDING AGENT OR OTHER DUST CONTROL TECHNIQUE AS NEEDED TO AVOID WIND-BLOWN SOIL. (SECTION 2.2.9)
- 31. THE APPLICATION RATE OF FERTILIZERS USED TO REESTABLISH VEGETATION MUST FOLLOW MANUFACTURER'S RECOMMENDATIONS TO MINIMIZE NUTRIENT RELEASES TO SURFACE WATERS. EXERCISE CAUTION WHEN USING TIME-RELEASE FERTILIZERS WITHIN ANY WATERWAY RIPARIAN ZONE (SECTION 2.3.5)
- 32. IF AN ACTIVE TREATMENT SYSTEM (FOR EXAMPLE, ELECTRO-COAGULATION, FLOCCULATION, FILTRATION, ETC.) FOR SEDIMENT OR OTHER POLLUTANT REMOVAL IS EMPLOYED, SUBMIT AN OPERATION AND MAINTENANCE PLAN (INCLUDING SYSTEM SCHEMATIC, LOCATION OF SYSTEM, LOCATION OF INLET, LOCATION OF DISCHARGE, DISCHARGE DISPERSION DEVICE DESIGN, AND A SAMPLING PLAN AND FREQUENCY) BEFORE OPERATING THE TREATMENT SYSTEM. OBTAIN ENVIRONMENTAL MANAGEMENT PLAN APPROVAL FROM DEQ BEFORE OPERATING THE TREATMENT SYSTEM. OPERATE AND MAINTAIN THE TREATMENT SYSTEM ACCORDING TO MANUFACTURER'S SPECIFICATIONS. (SECTION 1.2.9)
- 33. TEMPORARILY STABILIZE SOILS AT THE END OF THE SHIFT BEFORE HOLIDAYS AND WEEKENDS, IF NEEDED. THE REGISTRANT IS RESPONSIBLE FOR ENSURING THAT SOILS ARE STABLE DURING RAIN EVENTS AT ALL TIMES OF THE YEAR, (SECTION 2.2)
- 34. AS NEEDED BASED ON WEATHER CONDITIONS, AT THE END OF EACH WORKDAY SOIL STOCKPILES MUST BE STABILIZED OR COVERED, OR OTHER BMPS MUST BE IMPLEMENTED TO PREVENT DISCHARGES TO SURFACE WATERS OR CONVEYANCE SYSTEMS LEADING TO SURFACE WATERS. (SECTION 2.2.8)
- 35. SEDIMENT FENCE: REMOVE TRAPPED SEDIMENT BEFORE IT REACHES ONE THIRD OF THE ABOVE GROUND FENCE HEIGHT AND BEFORE FENCE REMOVAL, (SECTION 2.1.5.B.)
- 36. OTHER SEDIMENT BARRIERS (SUCH AS BIOBAGS): REMOVE SEDIMENT BEFORE IT REACHES TWO INCHES DEPTH ABOVE GROUND HEIGHT AND BEFORE BMP REMOVAL (SECTION 2.1.5.C)
- 37. CATCH BASINS: CLEAN BEFORE RETENTION CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT, SEDIMENT BASINS AND SEDIMENT TRAPS: REMOVE TRAPPED SEDIMENTS BEFORE DESIGN CAPACITY HAS BEEN REDUCED BY FIFTY PERCENT AND AT COMPLETION OF PROJECT, (SECTION 2.1.5.D)
- 38. WITHIN 24 HOURS, SIGNIFICANT SEDIMENT THAT HAS LEFT THE CONSTRUCTION SITE, MUST BE REMEDIATED. INVESTIGATE THE CAUSE OF THE SEDIMENT RELEASE AND IMPLEMENT STEPS TO PREVENT A RECURRENCE OF THE DISCHARGE WITHIN THE SAME 24 HOURS, ANY IN-STREAM CLEAN-UP OF SEDIMENT SHALL BE PERFORMED ACCORDING TO THE OREGON DEPARTMENT OF STATE LANDS REQUIRED TIMEFRAME, (SECTION 2.2.19.A)
- 39. THE INTENTIONAL WASHING OF SEDIMENT INTO STORM SEWERS OR DRAINAGE WAYS MUST NOT OCCUR. VACUUMING OR DRY SWEEPING AND MATERIAL PICKUP MUST BE USED TO CLEANUP RELEASED SEDIMENTS, (SECTION 2.2.19)
- 40. DOCUMENT ANY PORTION(S) OF THE SITE WHERE LAND DISTURBING ACTIVITIES HAVE PERMANENTLY CEASED OR WILL BE TEMPORARILY INACTIVE FOR 14 OR MORE CALENDAR DAYS. (SECTION 6.5.F.)
- 41. PROVIDE TEMPORARY STABILIZATION FOR THAT PORTION OF THE SITE WHERE CONSTRUCTION ACTIVITIES CEASE FOR 14 DAYS OR MORE WITH A COVERING OF BLOWN STRAW AND A TACKIFIER LOOSE STRAW OR AN ADEQUATE COVERING OF COMPOST MULCH UNTIL WORK RESUMES ON THAT PORTION OF THE SITE. (SECTION 2.2.20)
- 42, DO NOT REMOVE TEMPORARY SEDIMENT CONTROL PRACTICES UNTIL PERMANENT VEGETATION OR OTHER COVER OF EXPOSED AREAS IS ESTABLISHED, ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED, ALL TEMPORARY EROSION CONTROLS AND RETAINED MOVED AND DISPOSED OF PROPERLY, UNLESS NEEDED FOR LONG TERM USE FOLLOWING TERMINATION OF PERMIT COVERAGE, (SECTION 2.2.21)





			DESCRIPTION	REVISIONS
			REV DATE	
			REV	
			_	



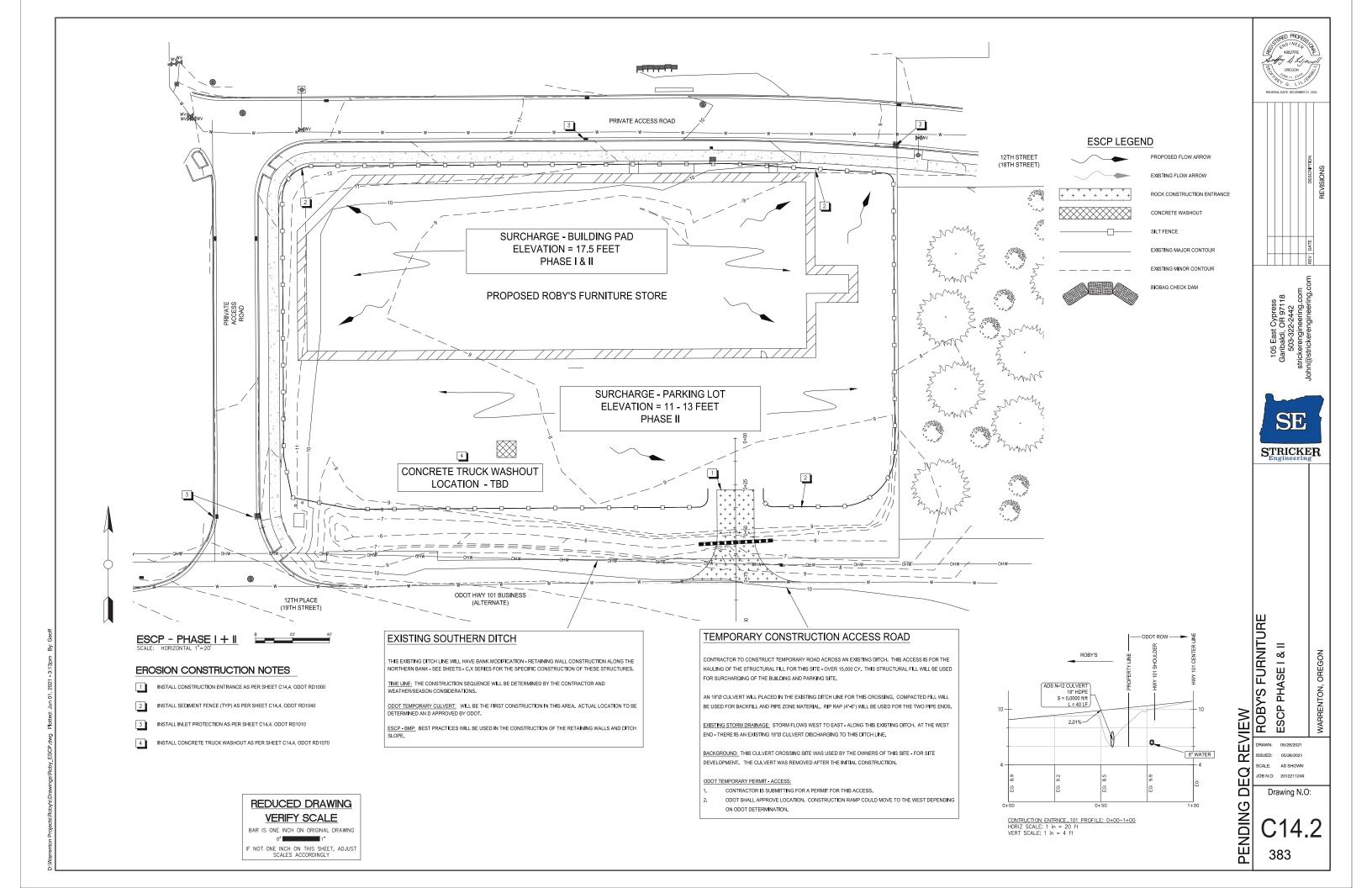
ROBY'S FURNITURE

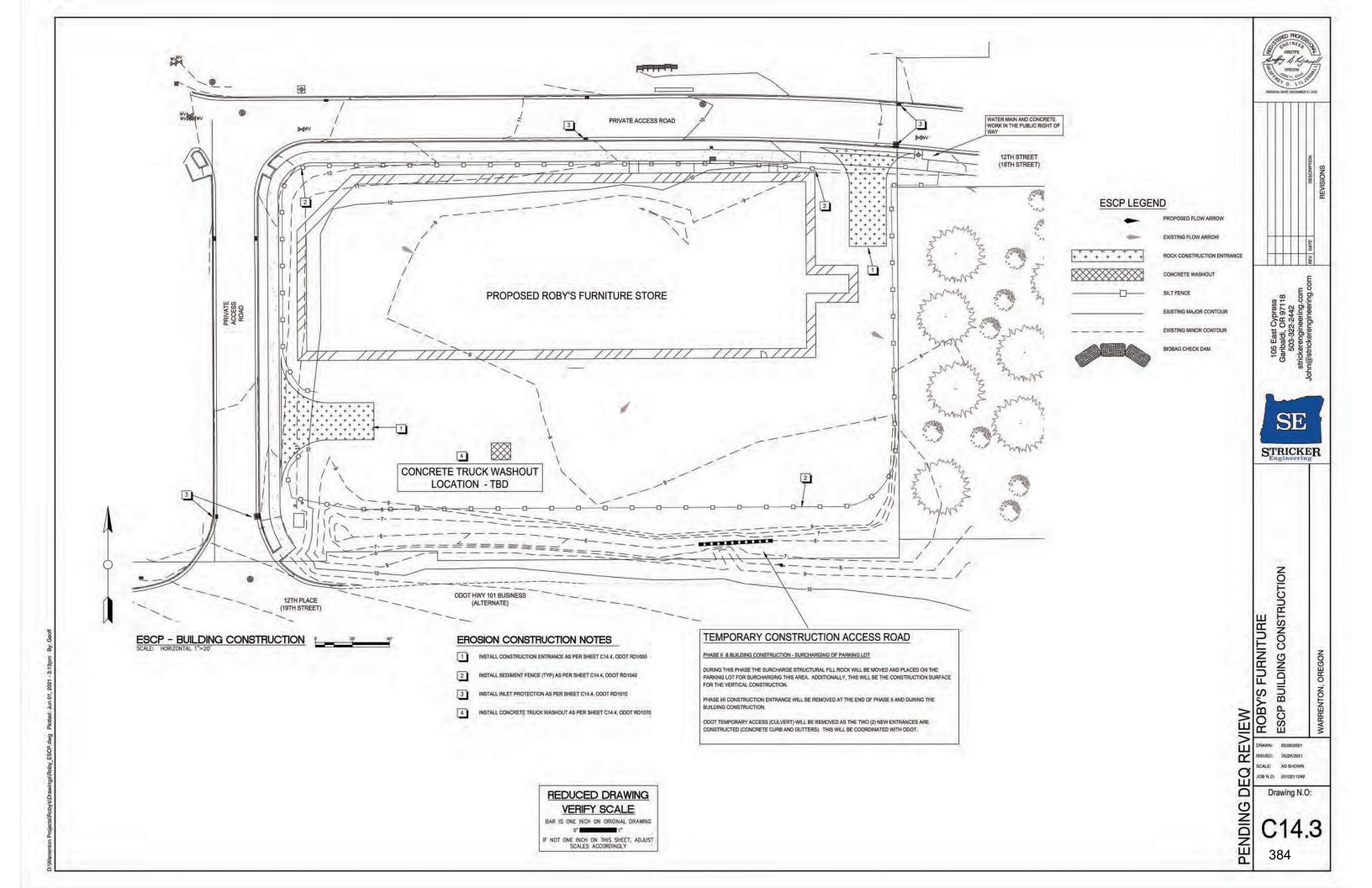
ESCP  $\equiv$  $\propto$ Q

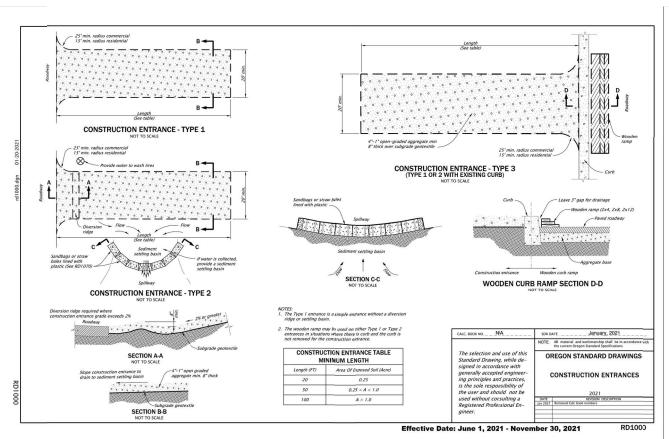
**PENDING** 

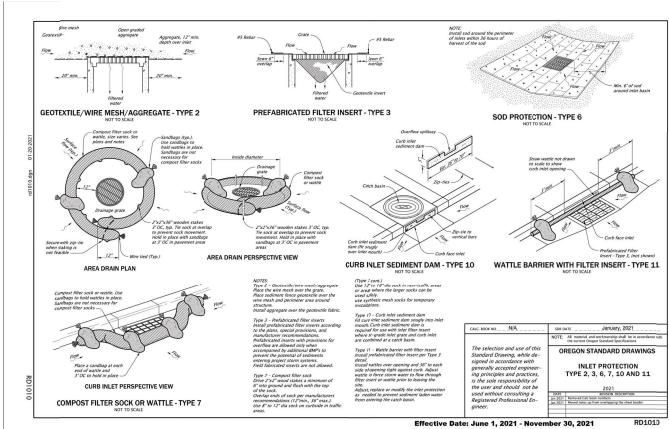
RAWN: 05/28/202 ISSUED: 05/28/2021 CALE: AS SHOWN

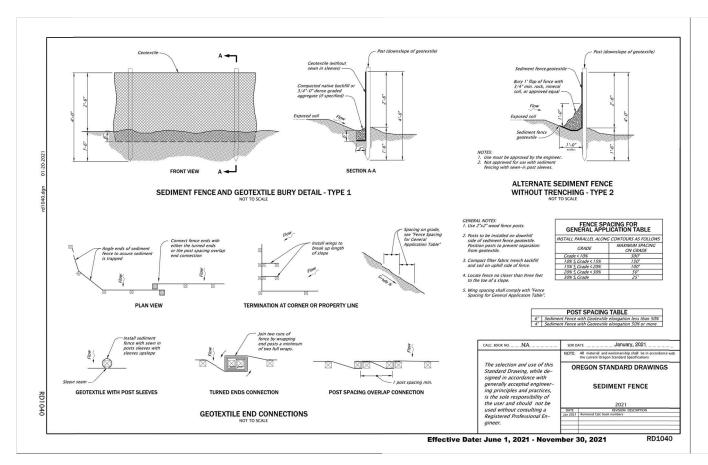
JOB N.O: 2012211249 Drawing N.O:

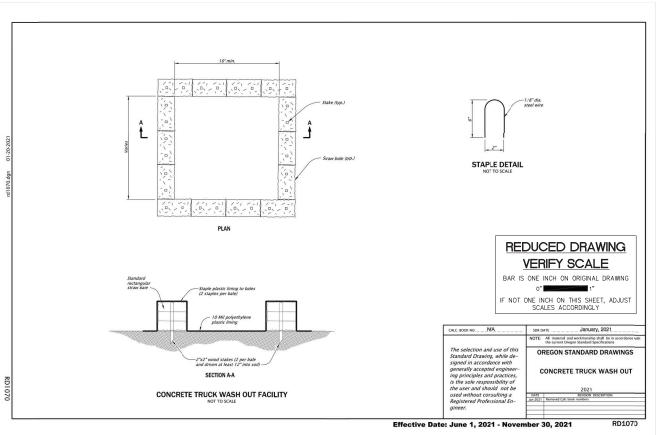
















REVIEW
ROBYS FURNITURE
Soc Grafis
ESCP ODOT Details

 $\propto$ 

RAWN: 05/28/2021 SCALE: AS SHOWN JOB N.O: 2012211249

Drawing N.O:

PENDING

385

### APPENDIX M

Photo Plates:

- A. Existing Conditions
- B. Sample Store Signage
- C. Site Views (South and North)













CONSTRUCTION NOTE - GRADING 2 NW ENTRANCE 3

### REDUCED DRAWING VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY

30% SCHEMATIC ISSUED: 04/30/2021 SCALE: AS SHOWN JOB N.O: 2012211249

C4.1 387

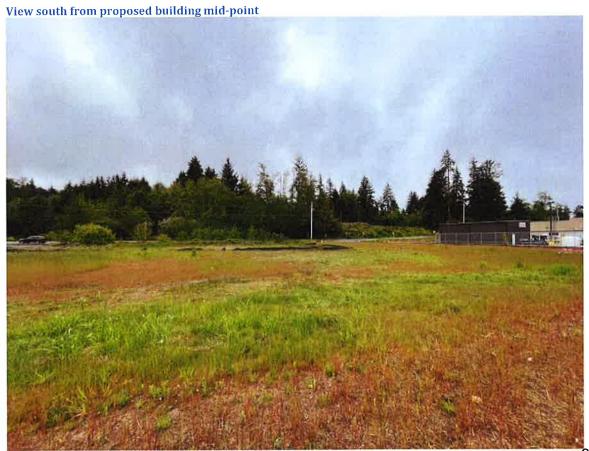
Drawing N.O:

DRAWN: 12/21/2020

SE STRICKER

ROBY'S FURNITURE
EXISTING CONDITIONS AND TOPOGRAPHIC SURVEY
WARRENTON OREGON







### APPENDIX N

Land Use Compatibility Statement, City of Warrenton letter to Oregon DEQ, May 12, 2021.



May 12, 2021

To:

**Oregon Department of Environmental Quality** 

From: Will Caplinger, Interim City Planner, City of Warrenton

Re:

Land Use Compatibility Statement for Roby's Furniture project

### Findings under Section 2.E.:

- 1. The project is compatible with the acknowledged City of Warrenton Comprehensive Plan. The project area is within the Commercial Lands designation. Section 3.320(1)(c) of the Comprehensive Plan states that, "the purpose of the General Commercial Zone is to allow a broad range of commercial uses..."
- 2. The project area is within the General Commercial (C-1) District. Warrenton Municipal Code (WMC) Section 16.40.020.A.2 states that "Retail business establishments" are a permitted use.
  - a. The project is subject to WMC Sections 16.40.040 Development Standards and 16.40.060 Other Applicable Standards.
  - b. The project area contains Locally Significant Wetlands. Development is subject to the Wetland Area Protection Standards in WMC 16.156.030.

## **Land Use Compatibility Statement**

Section 1 – To be con	npleted by the applicant
1A. Applicant Name: Warrenton Property Investments, L	1B. Project Name: Roby's Furniture
Contact Name: Kyle Langeliers	Physical Address: NW Corner of Fort Stephens Hwy
Mailing Address: 5111 N Coast Highway	City, State, Zip:Warrenton, Oregon
City, State, Zip:Newport, Oregon 97365	Tax Lot #: 81027AB06400
Telephone: 503-812-8267	Township: 8N Range: 10W Section: 27
Tax Account #:	Latitude:46.153934
86-1391915  1C. Describe the project, include the type of development, busing	Longitude:_123.906084
additional information if necessary): Proposed new commercial/retail development: Roby's	s Furniture Store.
1D. Check the type of DEQ permit(s) or approval(s) being appli	ed for at this time.
☐ Air Quality Notice of Construction	☐ Clean Water State Revolving Fund Loan
☐ Air Contaminant Discharge Permit	Request
☐ Air Quality Title V Permit	☐ Wastewater/Sewer Construction Plan/
☐ Air Quality Indirect Source Permit	Specifications (includes review of plan
☐ Parking/Traffic Circulation Plan	changes that require use of new land)
☐ Solid Waste Land Disposal Site Permit	☐ Water Quality NPDES Individual Permit
☐ Solid Waste Treatment Facility Permit	☐ Water Quality WPCF Individual Permit (for
☐ Solid Waste Composting Facility Permit	onsite construction-installation permits use
(includes Anaerobic Digester)	the DEQ Onsite LUCS form)
☐ Conversion Technology Facility Permit	☑ Water Quality NPDES Stormwater General
☐ Solid Waste Letter Authorization Permit	Permit (1200-A, 1200-C, 1200-CA,
☐ Solid Waste Material Recovery Facility Permit	1200-COLS, and 1200-Z)
☐ Solid Waste Energy Recovery Facility Permit	☐ Water Quality General Permit (all general
☐ Solid Waste Transfer Station Permit	permits, except 600, 700-PM, 1700-A, and
☐ Waste Tire Storage Site Permit	1700-B when they are mobile)
☐ Pollution Control Bond Request	☐ Water Quality 401 Certification for federal
☐ Hazardous Waste Treatment, Storage or	permit or license
Disposal Permit	*
This application is for     Permit Renewal       New Permit	Pennit Madification Other

Section 2 – To be completed by city or county planning	
Applicant name: Warrenton Property Investments, LLC Project name: Robby	's Furniture
Instructions: Written findings of fact for all local decisions are required; written findings from For uses allowed outright by the acknowledged comprehensive plan, DEQ will accept writerence to the specific plan policies, criteria, or standards that were relied upon in render why the decision is justified based on the plan policies, criteria, or standards.	orn previous actions are acceptable. itten findings in the form of a
2A. The project proposal is located: 🗵 Inside city limits 🔲 Inside UGB 🔲 Outside	
2B. Name of the city or county that has land use jurisdiction (the legal entity responsible to the subject property or land use): City of Warrenton	for land use decisions for
2C.   This project is not within the jurisdiction of any other land use, zoning, or planning  This project is also within the jurisdiction of the following land use, zoning, or planning	ning entity
2D. Is the activity allowed under Measure 49 (2007)? In No, Measure 49 is not applicable	le Tyes, if yes, then check one:
☐ Express; approved by DLCD order #:	NAME OF THE OWNER O
☐ Conditional; approved by DLCD order #:	
☐ Vested; approved by local government decision or court judgment docket or order #:	
2E. Is the activity a composting facility?  ☑ No ☐ Yes; Senate Bill 462 (2013) notification requirements have been met.	
2F. Is the activity or use compatible with your acknowledged comprehensive plan as required Please complete this form to address the activity or use for which the applicant is seeking page). If the activity or use is to occur in multiple phases, please ensure that your approval 1C. For example, if the applicant's project is described in 1C. as a subdivision and the LU grading are allowed outright but does not indicate whether the subdivision is approved, D approval for the subdivision is obtained from the local planning official.	approval (see 1.C on the previous all addresses the phases described in ICS indicates that only clearing and
☐ The activity or use is specifically exempt by the acknowledged comprehensive plan; e	explain:
<ul> <li>☐ Yes, the activity or use is pre-existing nonconforming use allowed outright by (provide</li> <li>☐ Yes, the activity or use is allowed outright by (provide reference for local ordinance):</li> </ul>	reference for local ordinance):
Yes, the activity or use received preliminary approval that includes requirements to ful findings are attached.	lly comply with local requirements;
☑ Yes, the activity or use is allowed; findings are attached.	
☐ No, see 2D. above, activity or use allowed under Measure 49; findings are attached.	
No, (complete below or attach findings for noncompliance and identify requirements to compatibility can be determined): Relevant specific plan policies, criteria, or standards:	ne applicant must comply with before
Provide the reasons for the decision:	
Additional comments (attach additional information as needed):	
Planning Official Signature: Title: Interior	im City Planner
Print Name: Wilk Caplinger Telephone #: (503) 468-1015	
If necessary, depending upon city/county agreement on jurisdiction outside city limits but	within UGB:
Planning Official Signature: Title:	
Print Name: Telephone #: (503) 468-1015	Date:

### **Alternative formats**

### State of Oregon Department of Environmental Quality



# **Land Use Compatibility Statement**

### What is a Land Use Compatibility Statement?

A LUCS is a form developed by DEQ to determine whether a DEQ permit or approval will be consistent with local government comprehensive plans and land use regulations.

### Why is a LUCS required?

DEQ and other state agencies with permitting or approval activities that affect land use are required by Oregon law to be consistent with local comprehensive plans and have a process for determining consistency. DEQ activities affecting land use and the requirement for a LUCS may be found in Oregon Administrative Rules (OAR) Chapter 340, Division 18.

### When is a LUCS required?

A LUCS is required for nearly all DEQ permits and certain approvals of plans or related activities that affect land use prior to issuance of a DEQ permit or approval. These permits and activities are listed in section 1.D on p. 2 of this form. A single LUCS can be used if more than one DEQ permit or approval is being applied for concurrently.

Permit modifications or renewals also require a LUCS when any of the following applies:

- 1. Physical expansion on the property or proposed use of additional land;
- 2. Alterations, expansions, improvements or changes in method or type of disposal at a solid waste disposal site as described in OAR 340-093-0070(4)(b);
- 3. A significant increase in discharges to water;
- 4. A relocation of an outfall outside of the source property; or
- 5. Any physical change or change of operation of an air pollutant source that results in a net significant emission rate increase as defined in OAR 340-200-0020.

### How to complete a LUCS:

Step	Who does it?	What happens?
1,	Applicant	Applicant completes Section 1 of the LUCS and submits it to the appropriate city or county planning office.
2.	City or County Planning Office	City or county planning office completes Section 2 of the LUCS to indicate whether the activity or use is compatible with the acknowledged comprehensive plan and land use regulations, attaches written findings supporting the decision of compatibility, and returns the signed and dated LUCS to the applicant.
3.	Applicant	Applicant submits the completed LUCS and any supporting information provided by the city or county to DEQ along with the DEQ permit application or approval request.

### Where to get help:

For questions about the LUCS process, contact the DEQ staff responsible for processing the permit or approval. DEQ staff may be reached at 1-800-452-4011 (toll-free, inside Oregon) or 503-229-5630. For general questions, please contact DEQ land use staff listed on our Land Use CompatibilityStatement page online.

### Cultural resources protection laws:

Applicants involved in ground-disturbing activities should be aware of federal and state cultural resources protection laws. ORS 358.920 prohibits the excavation, injury, destruction, or alteration of an archeological site or object or removal of archeological objects from public and private lands without an archeological permit issued by the State Historic Preservation Office. 16 USC 470, Section 106, National Historic Preservation Act of 1966 requires a federal agency, prior to any undertaking, to take into account the effect of the undertaking that is included on or eligible for inclusion in the National Register. For further information, contact the State Historic Preservation Office at 503-378-4168, ext. 232.

## APPENDIX O

Roby's Customer/Traffic Analysis, 2017-2019

# Roby's Furniture & Appliance Store CUSTOMER/TRAFFIC ANALYSIS, 3-YEARS DATA (Six Stores--2017, 2018 & 2019) Data Source: Kyle Langeleirs, Roby's Furniture

2017	lanuary	February	March	Anril	May	June	July	August	Sept	October	November	Docombor		
Store	January	i Coi dai y	Widicii	ДРІП	iviay	June	July	August	Зері	October	November	December		
Astoria	338	253	306	266	258	223	369	380	343	374	256	300		
Tillamook	454	500				498		475						
Lincoln City	339		302	327	332	294	_		303			323		
Newport	377	406		387	366			337	346					
Florence	523					203			258					
McMinnville	385	377	501					369			433			9
	2416	2423	2221	2236		2120		2176	1888		2014	2026	26301	Customers
												(12 month		
													2191.75	
												(6 stores)	/6=	
													365.29	
											(24 busine	ss days)	/24=	15.22
2018	January	February	March	April	May	June	July	August	Sept	October	November	December		
Store														
Astoria	244	224	319	280	381	313	279	304	221	313	307	287		
Tillamook	418	386	447	393	475	350	428	385	422	392	341	399		
Lincoln City	284	309	354	275	294	280	247	275	300	384	255	267		
Newport	402	321	380	347	385	393	391	391	400	418	393	330	T .	
Florence	212	271	312	244	212	261	261	254	297	212	212	316		
McMinnville	400	362	523	428	381	375	374	405	476	447	409	340		
	1960	1873	2335	1967	2128	1972	1980	2014	2116	2166	1917	1939	24367	Customers
											(1	2 months)	/12=	
													2030.58	
												(6 stores)	/6=	
													338.43	
											(24 Busine	ss Days)	/24=	14.1

# Roby's Furniture & Appliance Store CUSTOMER/TRAFFIC ANALYSIS. 3-YEARS DATA (Six Stores--2017, 2018 & 2019) Data Source: Kyle Langeleirs, Roby's Furniture

2019	January	February	March	April	May	June	July	August	Sept	October	November	December		
Store														
Astoria	293	308	247	278	380	323	298	349	316	367	361	265		
Tillamook	391	423	390	428	377	431	444	464	462	485	430	384		
Lincoln City	248	235	295	302	263	305	313	309	246	252	245	178		
Newport	393	344	391	359	403	355	373	446	370	348	380	375		
Florence	407	407	407	407	407	318	331	336	277	313	280	276		
McMinnville	378	407	355	312	336	321	340	383	336	333	397	388		
	2110	2124	2085	2086	2166	2053	2099	2287	2007	2098	2093	1866	25074	Customers
												(12 month	/12=	
													2089.5	
												(6 stores)	/6=	
													348.25	
											(24 Busine	ss days)	/24=	14.5

# END SITE DESIGN REVIEW NARRATIVE REPORT

### APPENDIX I

Pre-Application Meeting (Roby's Furniture & Appliance, January 20, 2021) Comment Letter, City of Warrenton, February 5, 2021, Scott Hess, Community Development Director



### February 5, 2021

To: Kyle Langeliers, Roby's Furniture

From: Scott Hess, Community Development Director, City of Warrenton

Copy: Van Wilfinger, Building Official; Colin Stelzig, Public Works Director; Brian Alsbury, Fire Chief

Re: January 20, 2021 Pre-application meeting

This memo outlines information identified during the preapplication meeting with you on Wednesday, January 20, 2021. You can use this memo as a checklist to help assure that your application is complete when submitted. Our comments are based on the discussion on January 20, 2021, and on a preliminary Site Plan and narrative materials provided by you via email on January 4, 2021.

The project is proposed on a portion of Tax Lot 081027AB06400 located near Marlin Ave and the Fort Stevens Hwy Spur. It is our understanding that this is a commercial retail store consisting of approximately 28,000 square feet. The property is zoned is zoned General Commercial (C-1).

This proposal is a permitted use in the General Commercial (C-1) zone, and will require site design review per WMC 212.040. The application will be reviewed via a Type 3 process with a public hearing before the Planning Commission and notice described in WMC 16.208.050. The Community & Economic Development Department performance review time for a Type 3 application from "completeness" to "notice of decision" is 6-8 weeks. Application requirements are listed in WMC 16.216 & 16.220.

Codes referenced below will be used in reviewing the Site Design Review submittal. Staff will ask that you provide a narrative response to the code sections below. Staff can assist with a template for that response if necessary.

### **Planning/Zoning Comments:**

- 1. <u>Warrenton Municipal Code 16.208.050 Type III Applications</u> provides details needed to satisfy the public notice hearing posting and elements required leading up to Planning Commission
- 2. <u>WMC 16.121.020</u> establishes standards for Site Design review applicability. Commercial buildings greater than 10,000 square feet greater require a Type III review with public notice required per Chapter 16.208.040.
- 3. WMC 16.212.040 explains Site Design elements.
  - a. Street Lights will be required as well as a lighting plan for the site
  - b. Assure that parking lot is lit to increase safety of the rear parking

- 4. Design standards for C-1 Zone can be found in <u>Title 16</u>, <u>Division 3</u>. On initial review, this project will be required to conform with the following:
  - a. <u>Chapter 16.116 Design Standards</u>: Please review the Architectural Design Standards and provide information on how the design the building meets the basic Building Requirements in 16.116.030 C. Note the Building Massing, Materials, and Mechanical equipment requirements.
  - b. Chapter 16.20 Access and Circulation
  - c. Chapter 16.124 Landscaping, Street Trees, Fences, and Walls
    - Chapter 16.124.070 New Landscaping provides information for Landscaping Plans. Basic requirements are 15% of the site shall be landscaped in Commercial Zones
  - d. Chapter 16.128 Vehicle and Bicycle Parking:
    - i. Vehicle Parking Your use falls into the category of "General Retail", and there is also a standard for "Furniture or appliance repair shop". The higher parking number is 1 space per 350 square feet of retail space, and the lower number is 1 space per 750 square feet of floor space.
    - ii. Landscaped parking aisles will count towards your 15% landscape requirement.
    - iii. Bicycle parking Required to provide at minimum 2 spaces with 25% long term and 75% short term. Long term parking must be within a lockable enclosure, a secure room in a building onsite, monitored, or another form of sheltering. Placing the bike rack under an awning in a visible location that does not impede pedestrian flow will meet this requirement.
    - iv. Applicants can request a parking reduction as a Class 1 or Class 2 variance, and must provide a written request and a parking analysis provided by a qualified professional/registered engineer. Review 16.128.030.10 for more information.
  - e. <u>Chapter 16.144.040 Signs</u>: This reference is direct to the Commercial Sign Requirements can be handled administratively at building permit, but understanding the requirements will be helpful for you now.
  - f. 16.156 Wetland and riparian corridor development standards: Provide documentation of wetland delineation and mitigation done within the overall site development by the current owners. Explain how your project meets those requirements set forth in the State's permit.
  - g. <u>16.192 Large-Scale Developments</u>: This section of code largely refers to other areas, with a key exception of requiring Soil Suitability analysis if needed. It is possible that this work was done with the development of Tractor Supply, and whether it covered the entire site.
- 5. The Planning Commission meets on the second Thursday of each month. Your completed application materials need to be submitted at least **five weeks ahead** of the meeting date.

### **Building Department Comments:**

- 1. The plans, as provided, are conceptual in nature and contain insufficient information to provide comprehensive Building Department comments at this time.
- 2. Building Department Review and Building Permit submittal are the final step in the Land Use approval process. The project must clear all Planning and Zoning, and Public Works comments prior to submittal for a Building Permit.

### **Public Works Comments:**

Public Works understands that a new furniture store is proposed on a portion of Tax Lot 081027AB06400. With this information, staff at public works has provided the following items that will need to be addressed in your design and planning documents:

- The developer is required to follow the City of Warrenton Development Standards. These standards can be found in Title 16 of the Warrenton Municipal Code. Please provide documentation showing how this development will meet that standards set forth in the development code. Below is a link to the Development Code http://gcode.us/codes/warrenton/view.php?topic=16&frames=on
- 2. The developer must follow the City's Water and Sewer Regulations. These regulations are included under Title 13 of the Warrenton Municipal Code. Please provide documentation showing how this development will meet that standards set forth in the development code. Below is a link to the Title 13 of our Code: <a href="http://gcode.us/codes/warrenton/view.php?topic=13&frames=on">http://gcode.us/codes/warrenton/view.php?topic=13&frames=on</a>
- 3. The developer is required to follow the Engineering Standards & Design Criteria Manual. Please provide documentation showing how the development meets the standards set forth in this manual. This manual can be found at the <a href="http://www.ci.warrenton.or.us/publicworks/page/engineering-specifications-design-guide">http://www.ci.warrenton.or.us/publicworks/page/engineering-specifications-design-guide</a>
- 4. Sewer services for commercial projects shall be a minimum of 6" diameter.
- 5. Water meter and service connections will be installed by the owner/contractor.
- 6. All commercial property shall have a backflow device at the meter for premise isolation.
- 7. The City will need an easement at meter and vault locations if on private property.
- 8. Sidewalks shall be a minimum of 5 feet wide and shall meet ODOT standards.
- 9. Street lights are required for all new developments. Show proposed street light locations and submit plan to Pacific Power & Light for circuit design.
- 10. Please work with the Fire Chief to determine appropriate Fire hydrant spacing for this development. Developer team is responsible for determining if fire flows are available at this location. This can include hydrant testing and/or water modeling.
- 11. All on-site driveways, parking areas, aisles and turn-a-rounds shall have on-site collection or infiltration of surface waters to eliminate sheet flow of such waters onto public rights-of-way and abutting property. Surface water facility plans shall be prepared by a qualified engineer and constructed in accordance with City standards. Stormwater report shall detail pre and post stormwater conditions, including the adjacent ROWs and flows from existing storm system.
- 12. The City has design standards for refuse enclosures that include the required turning radius and access standard. Current design does not appear to show refuse or recycling services?
- 13. Existing flood elevation are 12' NAVD, Future flood elevations could be near 13' NAVD.

### **Fire Department Comments:**

Based on the information provided, the Fire Department has the following comments.

### **ACCESS:**

With plans submitted, it appears that adequate access has been provided. Fire department is requesting that the East end of property (closest to loading dock) that the curb be painted red and labeled "NO PARK1NG-FIRE LANE" every 6 feet, from the Southeast corner to the Northeast corner. Building access with key must be provided, this will be in a Supra Box affixed to the exterior of building next to the

sprinkler riser room. Please see attached page with Supra Box ordering details. Provide and affix to the building-BUILDING INFORMATION SIGN-please read attached appendix J Oregon Fire Code.

### WATER SUPPLY:

Hydrants-Please provide the following information:

Waterflows from hydrants located on the NW and SE property, please see page #2 for a list of vendors that can complete this. Hydrant locations and distance all appear to be in good locations. FDC will be located on the NE comer of property within 15 feet of hydrant (see plans for location). FDC must have locking caps with key. Please see attached for ordering information from KNOX FDC caps.

### **ADDRESS:**

The address number also be located on the drive isle on the NW corner (front entrance) with numbers that

contrast form the building color and that are no smaller than 6 inches in height.

### MISC:

Please provide the Fire Dept with water flow and fire flow calcs.

### **Hydrant Flow Testing:**

Red Hawk Fire Protection 3801 NW Fruit Valley Rd Suite D, Vancouver, WA 98660 (360)984-3712

Wvatt Fire Protection 9095 SW Burnham St, Tigard, OR 97223 (503) 684-2928

Delta Fire, Inc 14795 SW 72nd Ave, Portland, OR 97224 f503) 620-4020

Viking Fire Protection 3245 NW Front Ave, Portland, OR 97210 (503)227-1171

Basic Fire Protection 8135 NE MLK Jr. Blvd, Portland, OR 97211 (503)2850713

### **Estimated Permit Fees & SDCs**

Grading permits and engineering design are reviewed by a third-party consultant and requires a deposit and direct charge for services. This will be calculated at the time of submittal.

Site Design Review: Planning Commission 25001-30000sqft

\$ 1750

Variance (if desired for parking reduction):

\$ 500 Class 1 or

\$ 1250 Class 2

### **Systems Development Charge:**

The City will collect systems development charges when building permits are issued. Below is an estimate based on the submitted plan set:

SDC	Co	st	Factor	Cost	
Water Meter		3,296.00	1" meter	\$	3296.00
Wastewater	\$	3,294.00	1" meter	\$	3294.00
Storm Water	\$	157.00	(factor)	\$	
Transportation			(trip gen)		
Per PHPT	\$	527.22		\$	
Parks	\$	0.00		\$	
			TOTAL	\$	

<sup>\*</sup>You have indicated that your store is approximately 28,000 square feet with 23,000 of that being used for general retail space. In order to best calculate your SDC fee, I would like to confer with my City Engineer and Public Works Director on the Storm Water factor and Trip Generation factor rather than provide an incorrect estimate in this Pre-App memo. I will follow-up with additional information.

Final SDCs will be calculated per approved plans at building permit issuance.

### Please use this letter as a checklist for your land use submittal.

If you have any questions about the requirements or any City related issues, please contact Scott Hess at <a href="mailto:shess@ci.warrenton.or.us">shess@ci.warrenton.or.us</a> or 503-861-0920.



# **Warrenton Fire Department**

P.O. Box 250 Warrenton, OR 97146-0250 ( 5 0 3 ) 861-2494 Fax503/861-2351 225 S. Main Warrenton, Or 97146-0250

### **MEMORANDUM**

To: Scott Hess, Community Development Director

Date: February 5, 2021

From: Brian Alsbury, Fire Chief

Re: Roby's Furniture and Appliance

Based on the information provided, the Fire Department has the following comments.

### **ACCESS:**

With plans submitted, it appears that adequate access has been provided. Fire department is requesting that the East end of property (closest to loading dock) that the curb be painted red and labeled "NO PARKING-FIRE LANE" every 6 feet, from the Southeast corner to the Northeast corner. Building access with key must be provided, this will be in a Supra Box affixed to the exterior of building next to the sprinkler riser room. Please see attached page with Supra Box ordering details. Provide and affix to the building-BUILDING INFORMATION SIGN-please read attached appendix J Oregon Fire Code.

### WATER SUPPLY:

Hydrants-Please provide the following information:

Waterflows from hydrants located on the NW and SE property, please see page #2 for a list of vendors that can complete this. Hydrant locations and distance all appear to be in good locations. FDC will be located on the NE corner of property within 15 feet of hydrant (see plans for location). FDC must have locking caps with key. Please see attached for ordering information from KNOX FDC caps.

### **ADDRESS:**

The address number also be located on the drive isle on the NW corner (front entrance) with numbers that contrast form the building color and that are no smaller than 6 inches in height.

### **MISC:**

Please provide the Fire Dept with water flow and fire flow calcs.



August 5, 2021

Will Caplinger
City Planner, Interim
City of Warrenton
225 S Main Ave
Warrenton, OR 97146

RE: Roby's Furniture - Site Design Review (WMC 16.212.040)

Dear Mr. Caplinger,

The planning review submittal package has been provided to City of Warrenton Public Works. The drawing set, Pre-App Meeting notes have been reviewed. This letter summarizes our review comments of the information provided, by Striker Engineering, dated June 28, 2021.

As submitted, the development consists of a new building and parking lot off Alternate Highway 101.

The submitted information has been reviewed for compliance with the City of Warrenton Municipal Code Site Design Review, Section 16.212.040 and additional referenced sections.

This is not a review of the engineering plans or construction details currently provided in the application documentation, but is a review of applicable code related to site design review. Engineer review will take place after planning commission approves the development and once engineering plans have submitted to the City for review and comments.

### **General Notes:**

- Construction Documents shall meet all requirements of federal, state, and local standards, codes, ordinances, guidelines and/or other legal requirements.
- The developer is required to follow the City of Warrenton Development Standards. These standards can be found in Title 16 of the Warrenton Municipal Code. Please provide documentation showing how this development will meet the standards set forth in the development code.
- The developer must follow the City's Water and Sewer Regulations. These regulations are included under Title 13 of the Warrenton Municipal Code.
- The developer is required to follow the Engineering Standards & Design Criteria Manual. Please provide documentation showing how the development meets the standards set forth in this manual.
- Grading and Erosion Control activities shall adhere to the requirements of the Approved Oregon Department of Environmental Quality General Permit for Stormwater Discharge, 1200-C when applicable.
- Grading activities shall adhere to the recommendations provided in the project final Geotechnical report when applicable.

### **Comments:**

- 1. Stormwater treatment will need to reviewed by the appropriate agency. It is our understanding that treatment will be reviewed by Oregon DEQ.
- 2. Sewer services for commercial projects shall be a minimum of 6" diameter.
- 3. Water meter and service connections will be installed by the owner/contractor.
- 4. All commercial property shall have a backflow device at the meter for premise isolation.
- 5. The City will need an easement around the water meter and vault locations if on private property. Water meters are not allowed in the sidewalk.
- 6. Sidewalks shall be a minimum of 5 feet wide and shall meet ODOT standards.
- 7. Street lights are required for all new developments. Show proposed street light locations and submit plan to Pacific Power & Light for circuit design.
- 8. Please work with the Fire Chief to determine appropriate Fire hydrant spacing for this development.

  Developer team is responsible for determining if fire flows are available at this location. This can include hydrant testing and/or water modeling.
- 9. All on-site driveways, parking areas, aisles and turn-a-rounds shall have on-site collection or infiltration of surface waters to eliminate sheet flow of such waters onto public rights-of-way and abutting property. Surface water facility plans shall be prepared by a qualified engineer and constructed in accordance with City standards. Stormwater report shall detail pre and post stormwater conditions, including the adjacent ROWs and flows from existing storm system. This report shall also include calculations for any new stormwater systems and the capacity of existing stormwater systems. This includes offsite stormwater systems associated with this development.
- 10. Driveway shall meet ODOT standards.
- 11. All easements, private or public, shall be shown on plans and recorded with the county.
- 12. Provide detailed grading elevations of all sidewalks, ADA ramps and driveways.
- 13. Clearly show private ownership of stormwater utilities.
- 14. Clearly show stormwater drainage patterns.
- 15. Provide identification of slopes greater than 10%.
- 16. The City of Warrenton utilizes ODOT standard drawings and details for public facilities construction.

  Coordinate, and modify as appropriate, any ODOT drawings with the City's Engineering Design Standards

  Adopted April 2020.
- 17. Provide impact study that includes wastewater and water use. Provide adequate documentation confirming the statement or an analysis of the existing conditions that demonstrates available capacity.
- 18. Provide a water and wastewater demands for this development.

If there are any questions, please don't hesitate to call me.

Sincerely,

Collin Stelzig

**Public Works Director** 

**Enclosures: None**