

# WARRENTON, OR

SITE ADDRESS: 695 US-101 WARRENTON, OR 97146 TRT ID: 438558

# SITE INFORMATION PROPOSED TESLA EV SITE ADDRESS:

WARRENTON, OR 97146

PROPERTY OWNER:
FRED MEYER STORES INC.

PARCEL ID: PARCEL ID: 81022D000104

POWER COMPANY:

PACIFIC CORP
DISTRIBUTION ENGINEER
CONTACT: MATT GRUBBS
PHONE: 503-310-0071

EMAIL: matthew.grubbs@pacificorp.com

WORK ORDER: TBD

COUNTY: CLATSOP COUNTY

LATITUDE\*:

LONGITUDE\*: 123° 54' 6.98" W \*BASED ON GOOGLE EARTH

DEWBERRY CONTACT ENGINEER: HUGO JUSTINIANO DEWBERRY ENGINEERS INC.

(919) 434-9742 hjustiniano@Dewberry.com

TESLA DESIGN MANAGER: BRIAN SLIGER

TESLA INC. (206) 437–3271 BSLIGER@TESLA.com

TESLA CONSTRUCTION MANAGER: TRAVIS GUENTHER

TRAVIS GUENTHER
TESLA INC.
(669) 308-0056
tguenther@tesla.com

### **CONTRACTOR NOTE**

CONTRACTOR SHALL COMPLETE INSTALL PER THE SIGNED AND SEALED SET OF DRAWINGS. ANY NECESSARY DEVIATIONS FROM THE DRAWINGS MUST BE SUBMITTED THROUGH AN RFI REQUEST PROCESS WITH ENGINEERING FOR AN APPROVAL PRIOR TO CONTRACTOR PROCEEDING WITH A DEVIATION OF THE SIGNED AND SEALED SET OF DRAWINGS.



- INSTALL (1) 1600A, 277/480V SWITCHBOARD INSTALL (3) TESLA SUPERCHARGERS
- INSTALL (12) TESLA CHARGE POSTS
- INSTALL (2) LIGHT POSTS

### APPLICABLE CODES

PROJECT DESCRIPTION

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES: OREGON BUILDING & ENERGY CODES, CONSISTENT WITH THE FOLLOWING CODES:

2022 OREGON STRUCTURE SPECIALTY CODE (2021 IBC & IEBC W/ AMENDMENTS).
 2021 OREGON ENERGY EFFICIENCY SPECIALTY CODE.

**AERIAL MAP** 

- 2023 OREGON ELECTRICAL SPECIALTY CODE (2023 NEC W/ AMENDMENTS).
- IN THE EVENT OF CONFLICT. THE MOST RESTRICTIVE CODE SHALL PREVAIL.

STRUCTURAL DESIGN CRITERIA

WIND DESIGN DATA:

ULTIMATE WIND SPEED = 125 MPH

OCCUPANCY CATEGORY: I

WIND IMPORTANCE FACTOR: I = 1.0

WIND EXPOSURE CATEGORY: B

SEISMIC DESIGN DATA:

OCCUPANCY CATEGORY: I

- OCCUPANCY CATEGORY: I
   SEISMIC IMPORTANCE FACTOR: I = 1.0
   SITE CLASS: D (ASSUMED)
- S<sub>DS</sub> = 1.4

   SEISMIC DESIGN CATEGORY: D

  ASSUMED SOIL PROPERTIES:

   ALLOWABLE BEARING PRESSURE: 1,500 PSF
- ALLOWABLE BEARING PRESSURE: 1,500 PSF
   ALLOWABLE LATERAL BEARING PRESSURE: 100 PSF/FT

0

FROST DESIGN DATA:

• FROST DEPTH: 12"

APN: 81022D000104

JOANN Fabric and Craft

SITE

PERMITTING JURISDICTION: CITY OF WARRENTON AND

CLATSOP COUNTY

LOCATION MAP

JURISDICTION INFORMATION

TITLE SHEET GENERAL NOTES GENERAL NOTES II SITE PLAN C-2 EXISTING CONDITIONS PLAN C-3 EQUIPMENT/PARKING PLAN C-4 CONSTRUCTION DETAILS I CONSTRUCTION DETAILS II CONSTRUCTION DETAILS III CONSTRUCTION DETAILS IV ELECTRICAL ONE-LINE DIAGRAM ARC FLASH LABELS & BREAKER SETTINGS REFERENCE DATASHEETS

DRAWING INDEX

# BEFORE SCALING

GROUNDING, SCHEMATIC & DETAILS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE TESLA EPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CALL BEFORE YOU DIG



OREGON

(800) 332-2344



3500 DEER CREEK ROAD PALO ALTO, CA 94304



Dewberry Engineers Inc. 100 OCEANGATE SUITE 400 LONG BEACH, CA 90802 PHONE: 562.350.0570



11,

HUGO WILLIAM JUSTINIANO, P.E. OREGON LICENCE No. 86604PE

DRAWN BY: GFS

CHECKED BY: SES

APPROVED BY:

PROJECT #: 50123704

JOB #: 50183983

	SUBMITTALS		
REV.	DATE	DESCRIPTION	
0	11/08/24	ISSUED FOR PERMITS	
Α	10/08/24	ISSUED FOR 90% REVIEW	

SITE NAME:

WARRENTON, OR (TRT ID: 438558)

SITE ADDRESS:

695 US-101 WARRENTON, OR 97146

SHEET TITL

TITLE SHEET

SHEET NUMBER

T-1

#### **GENERAL NOTES:**

- 1 FOR THE PURPOSE OF CONSTRUCTION DRAWING THE FOLLOWING DEFINITIONS SHALL APPLY: GENERAL CONTRACTOR(s) OR SUB-CONTRACTOR(s) - CIVIL CONTRACTOR AND/OR ELECTRICIAN CONTRACTOR PROJECT OWNER/CONSTRUCTION MANAGER - TESLA PROJECT HOST — LEGAL PROPERTY OWNER ENGINEER — DEWBERRY ENGINEERS INC.
- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING THE GENERAL CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF PROJECT OWNER PRIOR TO THE COMMENCEMENT OF WORK.
- 3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. THE GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- 4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- 5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE THE INSTALLATION AS INDICATED ON THE DRAWINGS FOR A FULLY FUNCTIONAL CHARGING STATION AND COMPLETE PROJECT.
- THE SUB-CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- 7. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON DRAWINGS, THE GENERAL CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE PROJECT ENGINEER. ONLY WRITTEN APPROVALS SHALL BE DEEMED TO CONFIRM ANY SUCH CHANGES AS BEING APPROVED.
- 8. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK, DETAILS ARE INTENDED TO SHOW DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT UNIQUE JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS DAYLOR OF THE PROPERTY OF MORE TO SUIT UNIQUE JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED
- 9. THE GENERAL CONTRACTOR SHALL REVIEW ROUTING OF CONDUIT, POWER AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING PLAN DRAWING. THE GENERAL CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONSTRUCTION MANAGER AND PROJECT HOST.
- 10. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE PROJECT HOST. THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- 11. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION IN GENERAL CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY.
- 12. APPLICABLE BUILDING CODES:
  THE GENERAL CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
  - THE GENERAL CONTRACTOR WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
    - AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

      AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC
    - MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION
- 13. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.
- 14. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER GENERAL CONTRACTOR(S) AND/OR SUB-CONTRACTOR(S).
- CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
- 17. THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND GENERAL CONTRACTOR(S) AND/OR SUB-CONTRACTOR(S) TO THE SITE AND/OR BUILDING.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- THE GENERAL CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
- 20. THE GENERAL CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE PROJECT HOST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 21. THE GENERAL CONTRACTOR AND SUB-CONTRACTORS SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- 22. THE GENERAL CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OR 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
- 23. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE PROJECT OWNER AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
- 24. GENERAL CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES AND ALL SPECIFIED CLOSE-OUT DOCUMENTATION TO THE PROJECT OWNER UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- 25. THE GENERAL CONTRACTOR SHALL LEAVE THE WORK AREA AND SURROUNDING PREMISES IN A CLEAN CONDITION.
- 26. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS REQUIRED).
- 27. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.

#### SITE WORK NOTES:

#### PART 1 - GENERAL

#### 1.1 REFERENCES:

- A. DOT (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION—CURRENT EDITION).
  B. AASHTO (AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS)
- ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- D. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION)
- 1.2 INSPECTION AND TESTING:
  - A FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LAB. THIS WORK IS TO BE COORDINATED BY THE GENERAL CONTRACTOR.
  - B. ALL WORK SHALL BE INSPECTED AND VERIFIED FOR CONFORMANCE AND RELEASED BY THE ENGINEER WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE GENERAL CONTRACTOR(S) RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.
- 1.3 SITE MAINTENANCE AND PROTECTION:
  A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE CONTRACT.
- B. AVOID DAMAGE AND TAKE PROTECTIVE MEASURES TO THE SITE AND TO EXISTING FACILITIES, IMPROVEMENTS, STRUCTURES, PAVEMENTS, CURBS, AND LANDSCAPING DESIGNATED TO REMAIN. ANY DAMAGED PART SHALL BE REPAIRED AT SUB-CONTRACTOR(S) EXPENSE TO THE SATISFACTION OF THE PROJECT HOST.
- C. KEEP SITE FREE OF ALL PONDING OR STANDING WATER.
- D. PROVIDE EROSION CONTROL MEASURES, IF REQUIRED, SHALL BE IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA REQUIREMENTS.
- E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- F. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUB-CONTRACTOR WHEN EXCANATING OR DRIVING PIERS AROUND OR NEAR UTILITIES. THE GENERAL CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
- G. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE PROJECT OWNER AND/OR LOCAL UTILITIES.
- H. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE PROJECT HOST OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE PROJECT HOST AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
- PROVIDE A MINIMUM 48—HOUR NOTICE TO THE PROJECT HOST AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.
- J. SOD PLANTED IN THE FALL MUST ESTABLISH ITS ROOTS BEFORE THE FIRST WINTER FROST. DETERMINE WHEN THE FIRST FROST USUALLY OCCURS, AND PLANT THE SOD NO LATER THAN ONE MONTH BEFORE THE FIRST FROST, IF THE CONSTRUCTION IS FINISHED LATER THAN ONE MONTH BEFORE THE FIRST FROST, USE STRAW UNTIL SOD CAN BE INSTALLED.
- K. THE GENERAL CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS, RUBBISH, DEBRIS, STUMPS, STICKS. AND STONES.
- L. THE GENERAL CONTRACTOR SHALL REMOVE ALL TRASH DEBRIS FROM THE SITE ON A DAILY BASIS.
- M. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT TREES, VEGETATION, AND ROOT SYSTEMS DURING
- N. CONTRACTOR TO COORDINATE POST CONSTRUCTION LANDSCAPING FINISHES WITH OWNER AND TESLA

#### PART 2 - PRODUCTS

2.1 GRANULAR BACKFILL: SHALL MEET THE FOLLOWING GRADATION:

<u>SIEVE SIZE</u>	TOTAL PERCENT PASSIN
1-1/2 INCH	100
1 INCH	75 TO 100
3/4 INCH	80 TO 100
3/8 INCH	35 TO 75
ŃO. 4	30 TO 60
NO. 30	7 TO 30
NO. 200	3 TO 15

- 2.2 GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE
- 2.3 ALL STRUCTURAL BACKFILL AND SUBBASE UNDER SLABS SHALL BE SELECT STRUCTURAL FILL MEETING THE GRADATION AND SOUNDNESS REQUIREMENTS IN ACCORDANCE WITH THE FOLLOWING:

	SIEVE SIZE	TOTAL PERCENT PASSIN
	4 INCH	100
NO. 40	0 TO 70	
NO 200	O TO 40	

- 2.4 MATERIALS SHALL BE SUBSTANTIALLY FREE OF SHALE OR OTHER SOFT, POOR DURABILITY PARTICLES. IF TESTING IS ELECTED BY PROJECT OWNER, MATERIAL WITH A MAGNESIUM SULFATE SOUNDNESS LOSS EXCEEDING 30% WILL BE REJECTED.
- 2.5 COARSE AGGREGATE FOR SUBBASE COURSE SHALL CONFORM TO ASTM D2940.
- 2.6 UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTIC SILTS AND CLAYS (LL>45). MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE ENGINEER. TYPICALLY THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.

- A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF A RAIN EVENT, NO SEDIMENT WILL LEAVE THE WORK SITE.
- B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
- C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.
- REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
- E. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR UNDESIRABLE MATERIALS.

- F. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH GRANULAR FILL.
- G. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
- H. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTIAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER TEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE ENGINEER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- I. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
- J. DURING EXCAVATION, THE SUB-CONTRACTOR SHALL PROVIDE SHORING, SHEETING, AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF EXCAVATION.
- K. WHEN DIRECTIONAL BORING IS REQUIRED, SUB-CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.

- A. AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH SPECIFIED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- B. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- C. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW, OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT. D. BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 12—INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, FILL MATERIAL SHALL BE
- E. THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS ESTABLISHED BY THE STANDARD PROCTOR TEST, ASTM D 698.

PLACED IN LIFTS NOT TO EXCEED 12-INCHES IN LOOSE DEPTH AND COMPACTED

- F. WHENEVER THE DENSITY TESTING INDICATES THAT THE SUB-CONTRACTOR(S) HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE CONSTRUCTION MANAGER. THE SUB-CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE MINIMUM COMPACTION
- G. THE SUB-CONTRACTOR SHALL OBTAIN GRAB SAMPLES OF SUFFICIENT QUANTITY TO PROVIDE TO LAB FOR PURPOSE OF DETERMINING MAX DRY DENSITY, ALL LOOSE AND/OR ORGANIC MATERIAL SHALL BE REMOVED PRIOR TO PREPARATION OF THE AREA FOR PLACEMENT OF STRUCTURAL BACKFILL OVERALL PLAN AREA OF WORK SHALL EXTEND 3'-0" MINIMUM BEYOND THE FINAL DIMENSIONS.
- H. SCARIFY THE EXISTING SOILS TO A DEPTH OF 6" AND RE-COMPACT USING A VIBRATING PLATE OR TAMPER, ANY SOFT AREAS SHALL BE OVEREXCAVATED 12" AND BACKFILLED WITH MATERIALS AND COMPACTION REQUIREMENTS SHOWN ON THE DRAWINGS.
- PLACEMENT AND COMPACTION OF STRUCTURAL BACKFILL AND SUBBASE SHALL BE IN 12" LIFTS. EXCAVATE FOR THE FOOTING EDGE AS SHOWN ON THE DRAWINGS.

#### 3.3 TRENCHING EXCAVATION:

- J. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
- K. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
- L. WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, EXCAVATE THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION, THEN BACKFILL WITH 12" OF GRANULAR MATERIAL.

#### 3.4 TRENCHING BACKFILL:

- A. PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- B. NOTIFY THE ENGINEER 24 HOURS IN ADVANCE OF BACKFILLING.
- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- D. PLACE GRANULAR BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS AND HAUNCHES.
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 12-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS ESTABLISHED BY THE STANDARD PROCTOR TEST, ASTM D
- H. PER LOCAL REGULATORY AUTHORITY AND AS APPLICABLE, ALL TRENCHES IN PUBLIC RIGHT-OF-WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.

#### 3.5 FINISH GRADING:

- A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL MATCH SURROUNDING TOPOGRAPHY AND STRUCTURES.
- B. UTILIZE GRANULAR FILL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- C. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL OR BETTER CONDITION.
- D. AREAS OF THE PROJECT HOST'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT OR PARKING/DRIVING AREAS SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION.

#### 3.6 ASPHALT PAVING ROAD:

- A. AASHTO
  B. STATE SPECIFIC ASPHALT SPECIFICATIONS FOR HIGHWAYS
  C. THE SUB-CONTRACTOR IS RESPONSIBLE FOR RE-STRIPING AND APPLYING SEALCOATING, UNLESS OTHERWISE SPECIFIED.



3500 DEER CREEK ROAD

PALO ALTO, CA 94304

(650) 681-5000

Dewberry

**Dewberry Engineers Inc** 100 OCEANGATE SUITE 400 LONG BEACH, CA 9080 PHONE: 562.350.0570



HUGO WILLIAM JUSTINIANO P.F. OREGON LICENCE No. 86604PE

DRAWN BY: GFS CHECKED BY: SES

50123704 PROJECT #

APPROVED BY

JOB #: 50183983

	SUBMITTALS			
REV.	DATE	DESCRIPTION		
0	11/08/24	ISSUED FOR PERMITS		
Α	10/08/24	ISSUED FOR 90% REVIEW		

SITE NAME:

WARRENTON, OR (TRT ID: 438558)

SITE ADDRESS:

695 US-101 WARRENTON, OR 97146

GENERAL NOTES I

GN-

#### **ELECTRICAL NOTES:**

- THE GENERAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS. ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS. SUB-CONTRACTOR SHALL NOTIFY THE PROJECT HOST AS SOON AS POSSIBLE, AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE PROJECT HOST HAS DIRECTED THE CORRECTIVE ACTIONS
- 2. THE GENERAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. ALL EXISTING CONDITIONS OF ELECTRICAL EQUIPMENT, LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE SUB-CONTRACTOR, PRIOR TO THE SUBMITTAL OF HIS BID, FAILURE TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE THE SUBCONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM.
- 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST FOITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT
- III LINDERWRITERS LABORATORIES
- A. UL UNDERWINITERS LABOURATIONING
  B. NEC NATIONAL ELECTRICAL MANUFACTURERS ASSOC.
  D. OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

  WITH SAFETY AND HEALTH ADMINISTRATION
- SBC STANDARD BUILDING CODE NFPA NATIONAL FIRE PROTECTION ASSOCIATION
- 4. DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, AND CONFIRM WITH ENGINEER ANY SIZES AND LOCATIONS WHEN NEEDED.
- 5. EXISTING SERVICES: THE GENERAL CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN
- 6. THE GENERAL CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. THE GENERAL CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING FOLIPMENT
- 7. THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL, UNLESS OTHERWISE SPECIFIED BY CONSTRUCTION MANAGER OR BY
- 8. THE GENERAL CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE PROJECT HOST'S CONFIRMATION, ETC. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER. PRIOR TO BEGINNING ANY WORK.
- 9. CONDUCTORS: THE CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER OR ALLMINUM WITH TYPE (THWN-2) INSULATION, 600 VOLT, COLOR CODED UNLESS SPECIFIED DIFFERENTLY ON DRAWINGS.
- 10. ALL (THWN-2) WIRING INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
- 11. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- 12. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER, SUB-CONTRACTOR IS TO PROVIDE ALL ELECTRICAL EQUIPMENT UNLESS OTHERWISE DIRECTED.
- 13. ALL WORK SHALL BE PERFORMED BY A LICENSED FLECTRICAL SUB-CONTRACTOR IN A FIRST CLASS. WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY THE CONSTRUCTION MANGER.
- 14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- 15. THE GENERAL CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- 16. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE
- 17. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK.
- 18. MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE
- 19. GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURES CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- 20. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE CONTRACTOR(S) RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE CONSTRUCTION MANAGER UPON FINAL ACCEPTANCE.
- 21. THE SUBCONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES.
- 22. DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS
- 23. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NOALOX" BY IDEAL INDUSTRIAL INC. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED ALUMINUM & COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS
- 24. ALL EXTERIOR AND INTERIOR ABOVE GROUND CONDUIT SHALL BE RIGID GALVANIZED STEEL UNLESS SPECIFIED OTHERWISE. RACEWAYS: ALL CONDUITS SHALL BE SCHEDULE 40 EMT MEETING OR EXCEEDING NEMA TC2 -1990 UNLESS SPECIFIED OTHERWISE, THE SUB-CONTRACTOR SHALL PLUG AND CAP FACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 3 FT. RADIUS, EMT CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD GALV'.

- 25. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- 26 CONNECTORS FOR POWER CONDUCTORS: SUB-CONTRACTOR SHALL USE PRESSURE TYPE INSULATED WIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER, USE SOLDERLESS MECHANICAL TERMINAL LUGS
- 27. THE SUB-CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION
- 28. WHEN DIRECTIONAL BORING IS REQUIRED, SUB-CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.
- 29. ALL BOLTS SHALL BE STAINLESS STEEL
- 30. ALL MATERIALS AND EQUIPMENT SUPPLIED AND INSTALLED BY THE SUBCONTRACTOR SHOULD BE NEW
- 31. PER NEC 625.22 THE USER INTERFACE (CHARGE POST) IS CONTROLLED BY THE ELECTRICAL EQUIPMENT (SUPERCHARGER CABINET) AND THE FOLLOWING PRECAUTIONS HAVE BEEN TAKEN TO ENSURE THE SAFETY OF CUSTOMERS AND THOSE AROUND THE EQUIPMENT. BEFORE ANY VOLTAGE OR CURRENT IS APPLIED TO THE CHARGE POST, THE CABINET MUST COMMUNICATE WITH THE TEXA VEHICLE. THERE IS A 'HANDSHAKE' BETWEEN THE CAR AND THE CABINET CONFIRMING THAT THE VEHICLE IS ACTUALLY A IS A HANDSHAKE BELIMENT THE CAR AND THE CABINET CONFIRMING THAT THE VEHICLE IS ACTUALLY A TESLA AND THAT THE VEHICLE CAN HANDLE THE SUPERCHARGING, VOLTAGE IS THEN APPLIED TO THE POWER SOCKETS IN THE CHARGE POST AND ONCE THE VOLTAGE READING FROM THE CAR IS VERIFIED AS THE SAME IN THE CHARGING CABINET, THEN CURRENT BEGINS TO FLOW. IF ANY POINT IN THIS PROCESS A FAULT IS DETECTED, THE CHARGING WILL STOP MIMEDIATELY, WITHIN A MATTER OF MILLISECONDS. DURING THE NORMAL CHARGING CYCLE, IF ANY FAULT OR IRREGULARITY IS DETECTED, THE CHARGING WILL AGAIN STOP WITHIN MILLISECONDS OF DETECTION, BEYOND THIS LOGIC PROTECTION, THERE IS PHYSICAL PROTECTION FROM OVER-CURRENT OR OVER-VOLTAGE WITHIN EACH OF THE CHARGERS. BEYOND THAT, FAST ACTING FUSES ALSO PROTECT THE VEHICLE OUTPUTS FROM OUTPUTTING TOO HIGH OF A CURRENT.

#### **REINFORCED CONCRETE NOTES:**

- DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
- 2. DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB SITE. MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
- ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS (UNLESS OTHERWISE NOTED), ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
- 4. MAXIMUM AGGREGATE SIZE SHALL BE 3/4".
- 5. THE FOLLOWING MATERIALS SHALL BE USED:

ASTM C 150, TYPE I REINFORCEMENT ASTM A 615, GRADE 60 NORMAL WEIGHT AGGREGATE: ASTM C 33 NON-CHLORIDE CONTAINING

- 6. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH "MNL-66(20): ACI DETAILING MANUAL" AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". ACI-318-08.
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B"; ALL HOOKS SHALL BE STANDARD, UNO.
- 8. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:

CONCRETE CAST AGAINST FARTH: 3 IN

CONCRETE EXPOSED TO EARTH OR WEATHER: #6 AND LARGER #5 AND SMALLER & WWF 1-1/2 IN.

CONCRETE NOT EXPOSED TO FARTH OR SLAB AND WALL 3/4 IN. WEATHER OR NOT CAST AGAINST THE GROUND: BEAMS AND COLUMNS 1-1/2 IN.

- 9. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, IN ACCORDANCE WITH
- 10. INSTALLATION OF CONCRETE ANCHOR, SHALL BE PER MANUFACTURERS WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.
- 11. CURING COMPOUNDS SHALL CONFORM TO ASTM C-309.
- 12. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI-301.
- 13. DO NOT WELD OR TACKWELD REINFORCING STEEL.
- 14. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE
- 15. LOCATE ADDITIONAL EXPANSION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JOINT.
- 16. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- 17. PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY EMBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK.
- 18. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
- DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14 DAYS AFTER PLACEMENT.
- 20. MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FAHRENHEIT. FOR COLD-WEATHER AND HOT-WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS MINIMUM.
- 21, UNLESS INDICATED OTHERWISE ON THE DRAWINGS, REINFORCEMENT SPLICES SHALL MEFT CLASS B. TENSION LAP REQUIREMENTS IN ACCORDANCE WITH ALL PROVISIONS OF ACI 318 LATEST EDITION UNLESS NOTED OTHERWISE.
- 22. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING.

#### TRAFFIC MANAGEMENT NOTES:

- 1. ALL TEMPORARY CONTROL WORK SHALL CONFORM TO THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) AND ALL REVISIONS, UNLESS SUPERCEDED BY THESE
- 2. ALL SIGN LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCO.
- 3. TEMPORARY CONSTRUCTION SIGNING AND ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE IN PLACE PRIOR TO THE START OF ANY WORK.
- 4. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE HIGHWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
- SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES. "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
- 6. CONTRACTORS SHALL NOTIFY THE OWNER AND ALL TENANTS OF THIS PROPERTY AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS CONDUIT INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY DRIVEWAY PAVEMENT
- 7. THE FIRST FIVE PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A LIGHTS.
- 8. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE
- 9. MINIMUM LANE WIDTH IS TO BE 11 FEET (3.3m) UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.
- 10. EXISTING PEDESTRIAN ACCESS SHALL BE MAINTAINED AT ALL TIMES THROUGH A COMBINATION OF PEDESTRIAN DETOURS OR PROTECTED SAFE ROUTES. ALL PEDESTRIAN ROUTES SHALL MEET APPLICABLE ACCESSIBILITY REQUIREMENTS.
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND PROTECTION OF TRAFFIC THROUGHOUT CONSTRUCTION AT THIS LOCATION. THE CONTRACTOR SHALL INSTALL TEMPORARY TRAFFIC SIGNS, DRUMS, CONES, OR OTHER TRAFFIC CONTROL DEVICES TO DIRECT VEHICLES AND PEDESTRIANS AROUND THE WORK ZONE.

#### HORIZONTAL DIRECT DRILLING NOTES:

- 1. THE WORK SPECIFIED IN THIS SECTION CONSISTS OF FURNISHING AND INSTALLING THE WORK SPECIFIED IN INIS SECTION CONSISTS OF FURNISHING AND INSTALLING UNDERGROUND UTILITIES USING THE DIRECTIONAL BORING (HORIZONTAL DIRECTIONAL DRILLING, HDD) METHOD OF INSTALLATION, ALSO COMMONLY REFERRED TO AS GUIDED HORIZONTAL BORING. THIS WORK SHALL INCLUDE ALL SERVICES, EQUIPMENT, MATERIALS, AND LABOR FOR THE COMPLETE AND PROPER INSTALLATION, TESTING, RESTORATION OF UNDERGROUND UTILITIES AND ENVIRONMENTAL PROTECTION AND RESTORATION.
- 2. WORK PLAN: PRIOR TO BEGINNING WORK, THE CONTRACTOR MUST SUBMIT TO THE ENGINEER A GENERAL WORK PLAN OUTLINING THE PROCEDURE AND SCHEDULE TO BE USED TO EXECUTE THE PROJECT. PLAN SHOULD DOCUMENT THE THOUGHTFUL PLANNING REQUIRED TO SUCCESSFULLY COMPLETE THE PROJECT.
- 3. ENVIRONMENTAL PROTECTION: CONTRACTOR SHALL PLACE SILT FENCE BETWEEN ALL BORING OPERATIONS AND ANY DRAINAGE, WETLAND, WATERWAY OR OTHER AREA DESIGNATED FOR SUCH PROTECTION BY CONTRACT DOCUMENTS, STATE, FEDERAL AND LOCAL REGULATIONS. ADDITIONAL ENVIRONMENTAL PROTECTION NECESSARY TO CONTAIN ANY HYDRAULIC OR BORING FLUID SPILLS SHALL BE PUT IN PLACE, INCLUDING BERMS, LINERS, TURBIDITY CURTAINS AND OTHER MEASURES. CONTRACTOR SHALL ADHERE TO ALL APPLICABLE ENVIRONMENTAL REGULATIONS. FUEL OR OIL MAY NOT BE STORED IN BULK CONTAINERS WITHIN 200' OF ANY WATER-BODY OR
- 4. UTILITY LOCATES: CONTRACTOR SHALL NOTIFY ALL COMPANIES WITH UNDERGROUND UTILITIES IN THE WORK AREA VIA THE STATE OR LOCAL "ONE—CALL" TO OBTAIN UTILITY LOCATES. ONCE THE UTILITIES HAVE BEEN LOCATED CONTRACTOR SHALL PHYSICALLY IDENTIFY THE EXACT LOCATION OF THE UTILITIES BY VACUUM OR HAND EXCAVATION, WHEN POSSIBLE, IN ORDER TO DETERMINE THE ACTUAL LOCATION AND PATH OF ANY UNDERGROUND UTILITIES WHICH MIGHT BE WITHIN 20
  FEET OF THE BORE PATH. CONTRACTOR SHALL NOT COMMENCE BORING OPERATIONS UNTIL THE
  LOCATION OF ALL UNDERGROUND UTILITIES WITHIN THE WORK AREA HAVE BEEN VERIFIED.
- 5. SAFETY: CONTRACTOR SHALL ADHERE TO ALL APPLICABLE STATE, FEDERAL AND LOCAL SAFETY REGULATIONS AND ALL OPERATIONS SHALL BE CONDUCTED IN A SAFE MANNER. SAFETY MEETINGS SHALL BE CONDUCTED AT LEAST WEEKLY WITH A WRITTEN RECORD OF ATTENDANCE AND TOPIC SUBMITTED TO ENGINEER.
- 6. SITE RESTORATION: FOLLOWING BORING OPERATIONS, CONTRACTOR WILL DE-MOBILIZE EQUIPMENT AND RESTORE THE WORK-SITE TO ORIGINAL CONDITION. ALL EXCAVATIONS WILL BE BACKFILLED AND COMPACTED TO 95% OF ORIGINAL DENSITY. LANDSCAPING WILL BE RESTORED TO ORIGINAL
- 7. RECORD KEEPING: CONTRACTOR SHALL MAINTAIN A DAILY PROJECT LOG OF BORING OPERATIONS AND A GUIDANCE SYSTEM LOG WITH A COPY GIVEN TO ENGINEER AT COMPLETION OF PROJECT. AS-BUILT DRAWINGS SHALL BE CERTIFIED AS TO ACCURACY BY CONTRACTOR.



3500 DEER CREEK ROAD PALO ALTO, CA 94304 (650) 681-5000



Dewberry Engineers Inc. 100 OCEANGATE SUITE 400 LONG BEACH, CA 9080 PHONE: 562.350.0570



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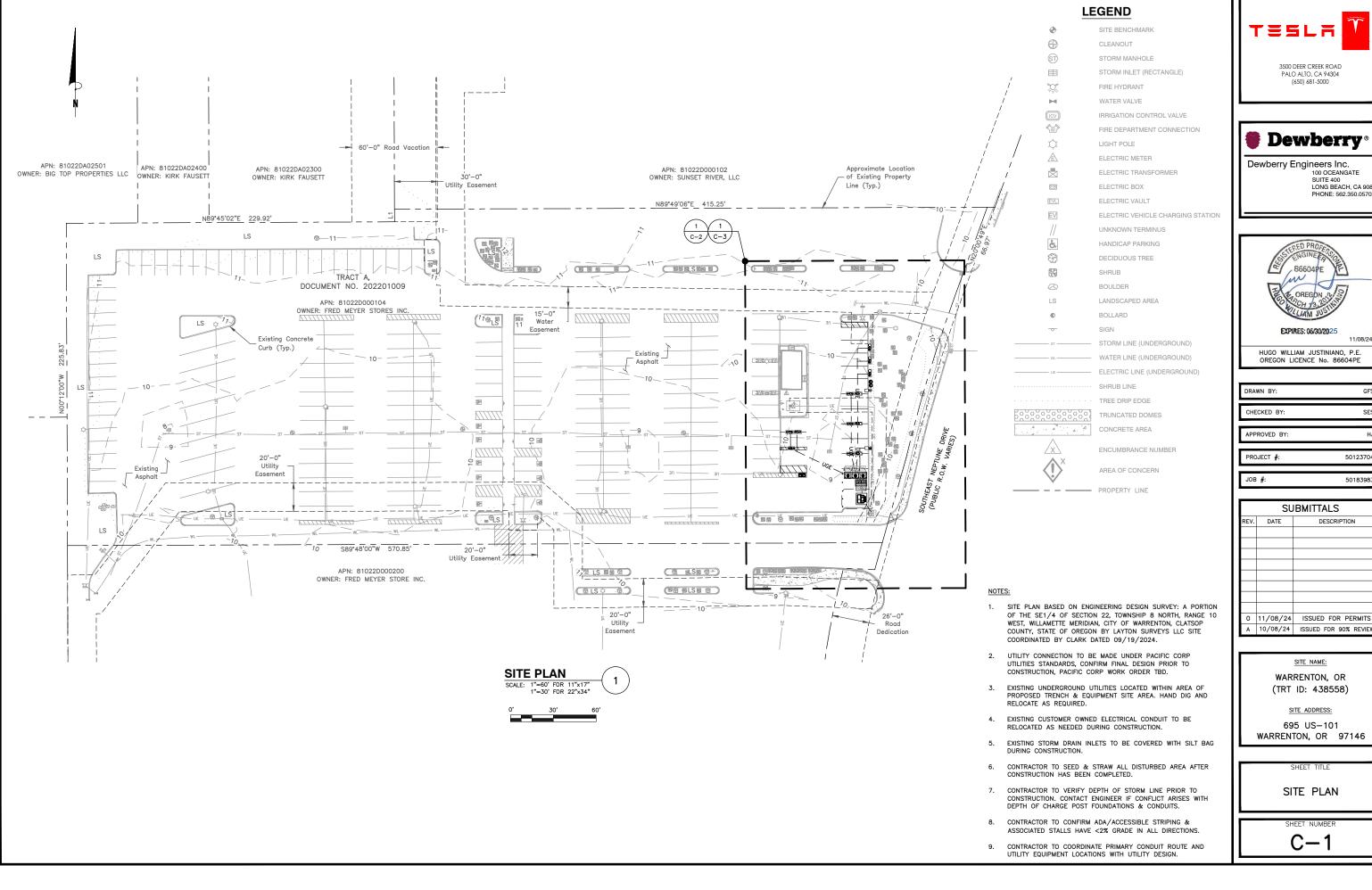
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GENERAL NOTES II

GN-2





LONG BEACH, CA 90802 PHONE: 562.350.0570



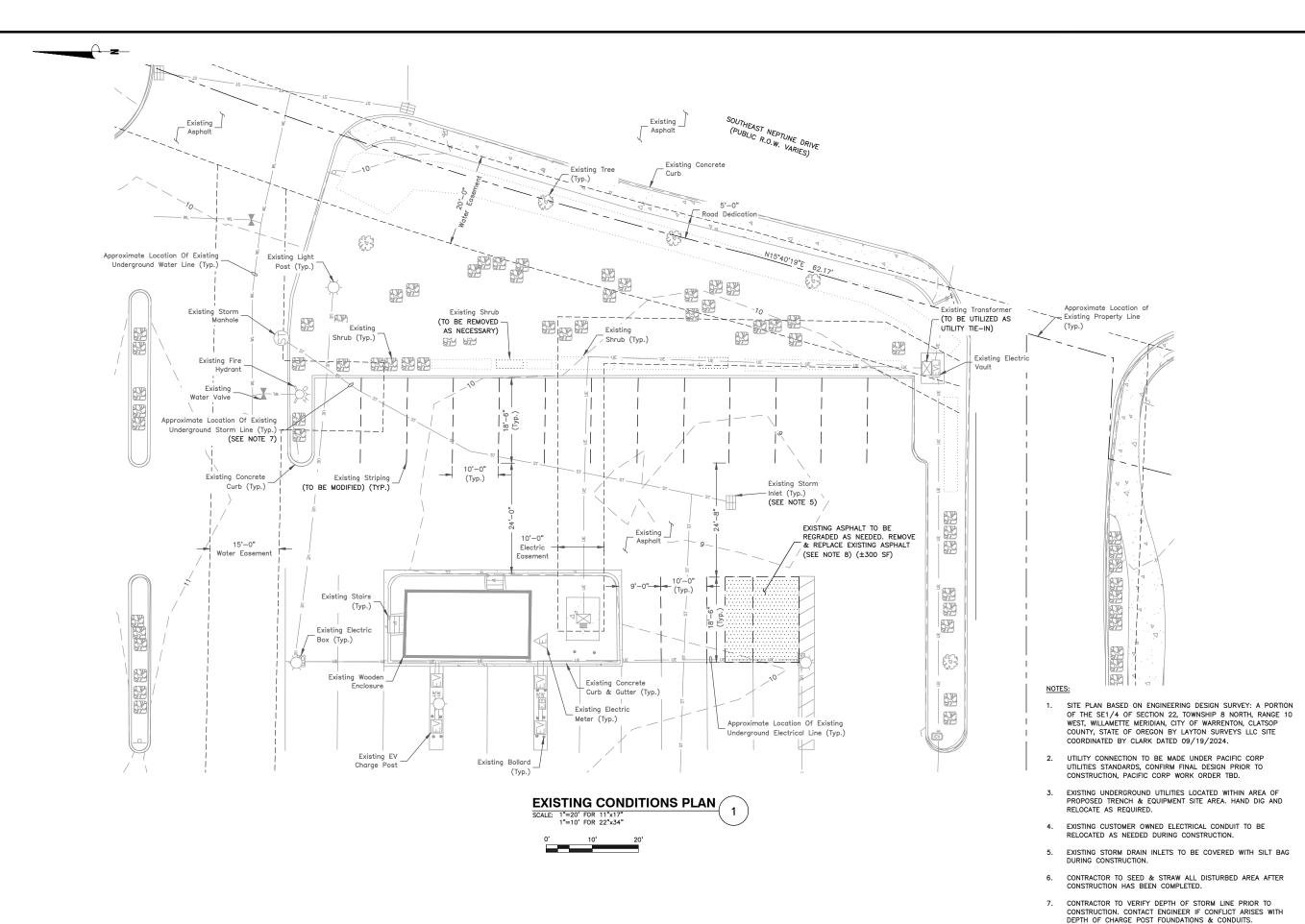
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CAFINES. 00/30/2023

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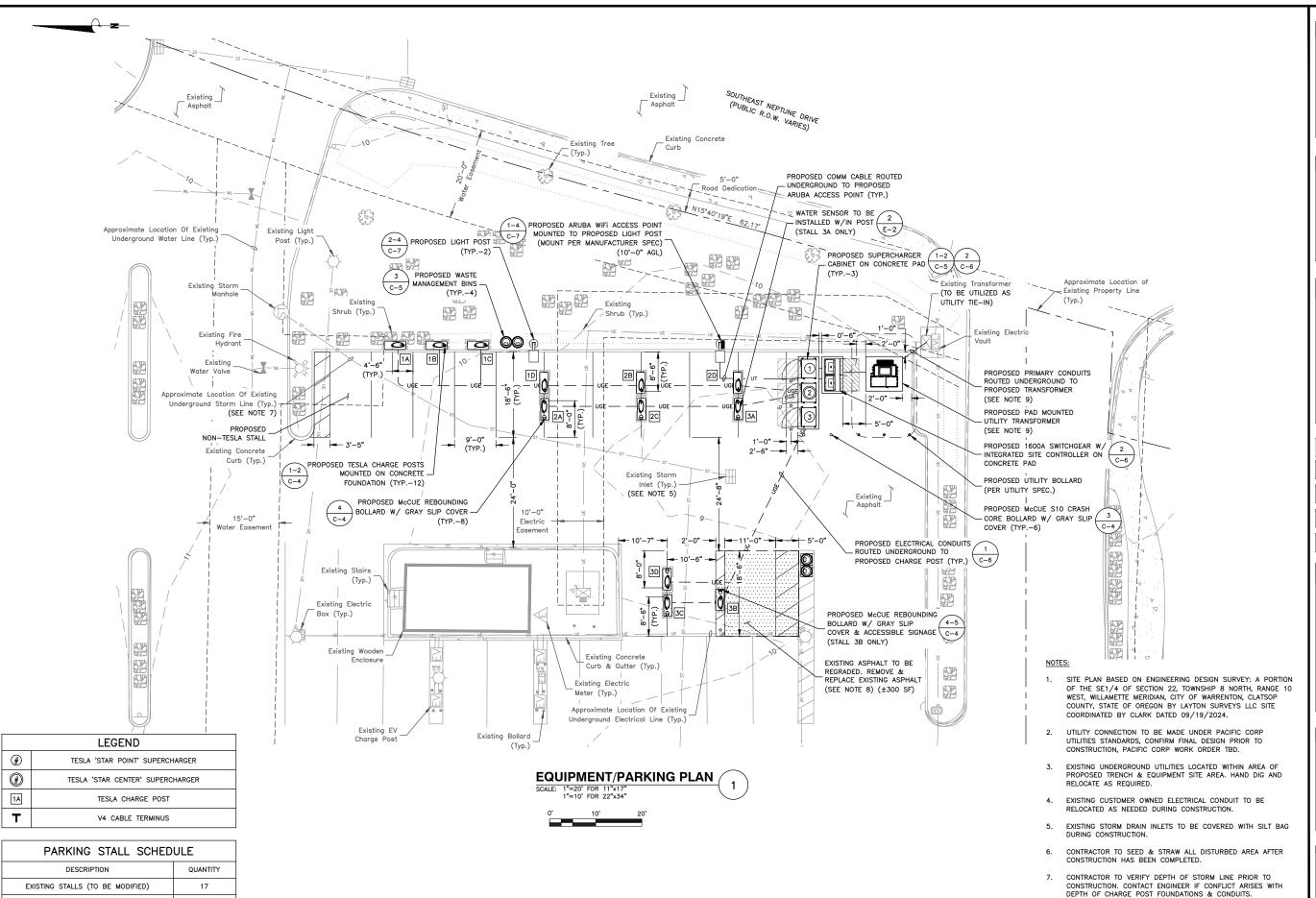
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EXISTING CONDITIONS PLAN

SHEET NUMBER

8. CONTRACTOR TO CONFIRM ADA/ACCESSIBLE STRIPING & ASSOCIATED STALLS HAVE <2% GRADE IN ALL DIRECTIONS.

9. CONTRACTOR TO COORDINATE PRIMARY CONDUIT ROUTE AND UTILITY EQUIPMENT LOCATIONS WITH UTILITY DESIGN.



PROPOSED TESLA STALLS

PROPOSED NON-TESLA STALLS

NET PARKING STALL CHANGE

12

-4



3500 DEER CREEK ROAD PALO ALTO, CA 94304 (650) 681-5000



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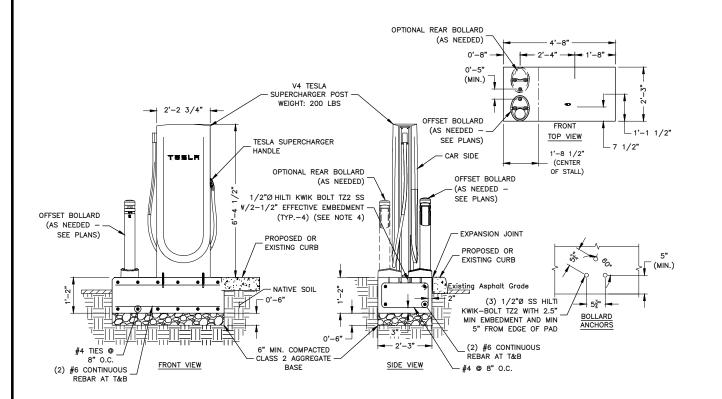
EQUIPMENT/PARKING PLAN

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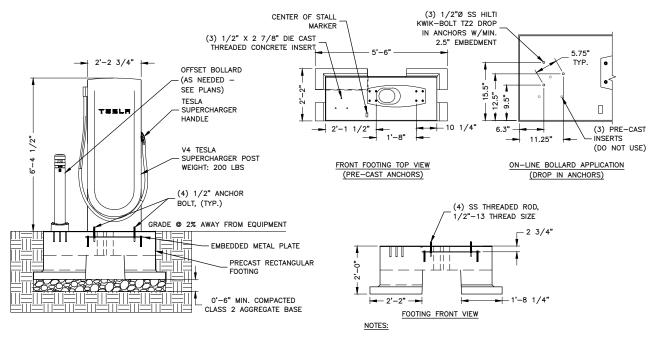
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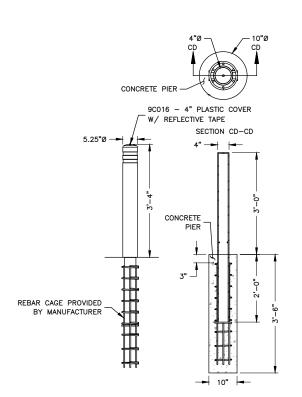
**V4 SUPERCHARGER POST CAST-IN-PLACE FOUNDATION** 



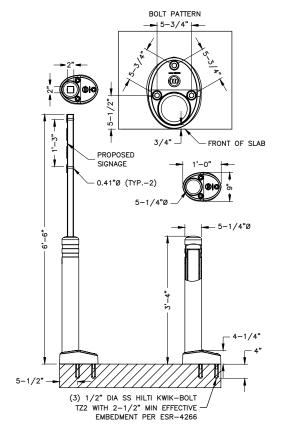
TESLA SUPERCHARGER POST DETAIL 2

PRECAST FOOTING REINFORCED WITH STRUCTURAL FIBER
VOLUME: 0.483 CU YDS
WEIGHT: 1,990 LBS
SEE CUTSHEETS FOR ADDITIONAL INFORMATION

S501.1333 SUPERCHARGER POST CENTER ON CENTER PRECAST FOOTING DETAIL RA WIND RATING (WITHOUT SIGN) = 134 MPH WIND RATING (WITH SIGN) = 120 MPH



McCUE CRASH CORE BOLLARD DETAIL
SCALE: N.T.S.







ACCESSIBLE SIGNAGE DETAIL 5









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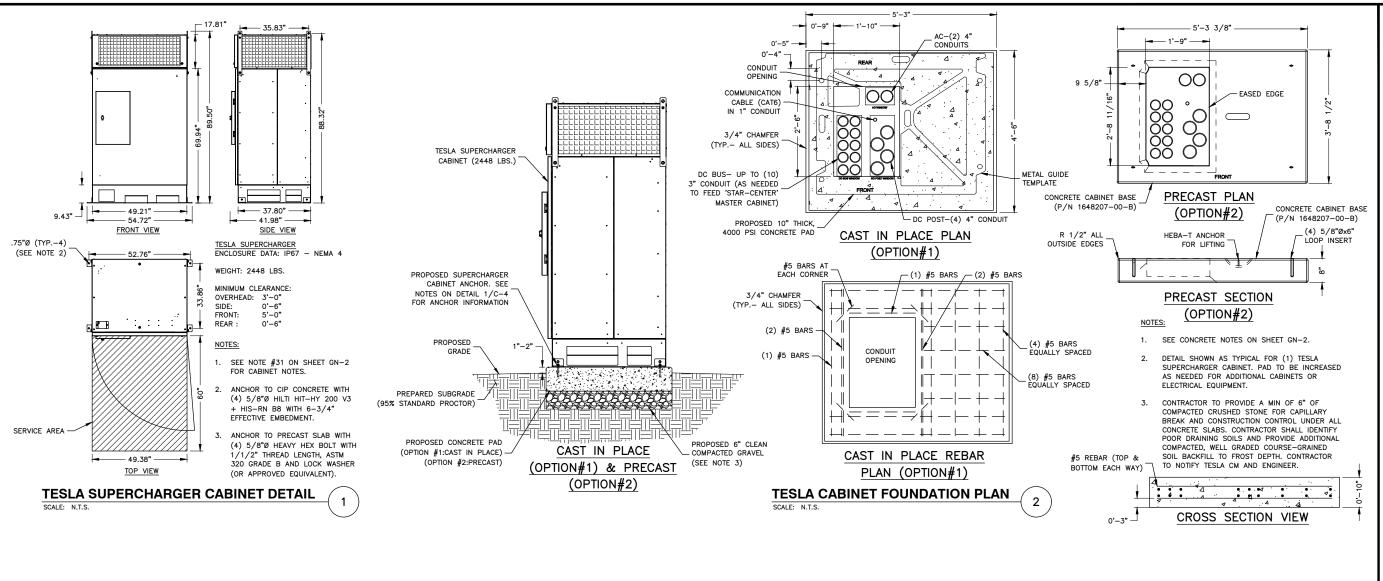
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CONSTRUCTION DETAILS I

SHEET NUMBER







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SITE NAME:
WARRENTON, OR

(TRT ID: 438558)

SITE ADDRESS:

695 US-101 WARRENTON, OR 97146

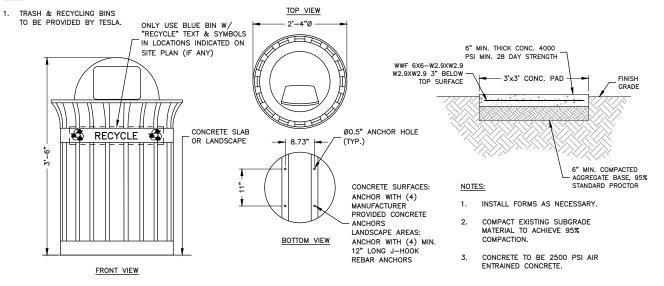
SHEET TITLE

CONSTRUCTION DETAILS II

SHEET NUMBER

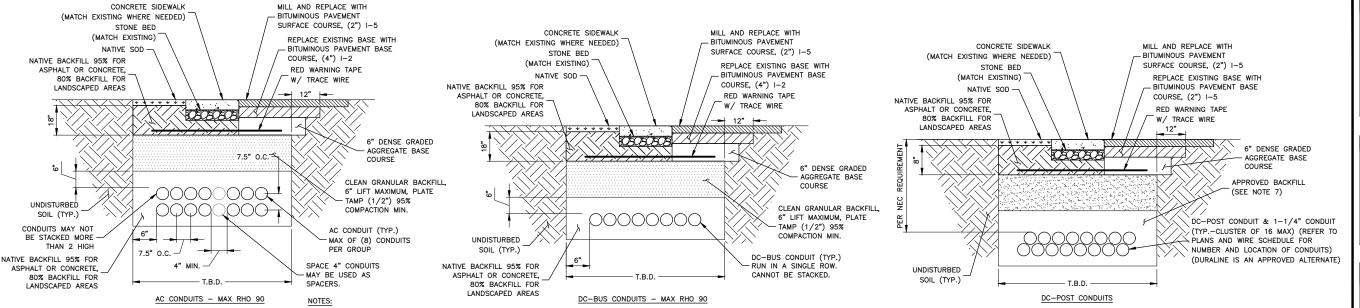
C-5





WASTE MANAGEMENT BIN & PAD DETAIL
SCALE: N.T.S.

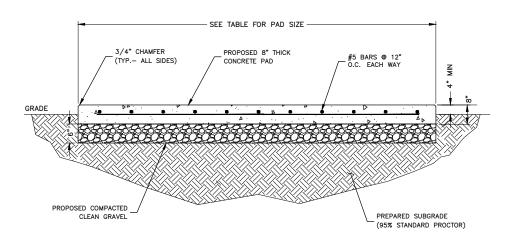
3



- IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
- IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
- 3. CONCRETE ENCASE CONDUIT WHEN TRENCHING UNDER SITE ACCESS ROAD.
- 4. ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE CONSTRUCTION CONDITIONS OR BETTER.
- MAINTAIN 12" SEPARATION MIN. BETWEEN AC OR DC CONDUCTORS AND COMMUNICATION CABLES.

- 6. CONFIRM ALL DEPTHS W/UTILITY & NEC PRIOR TO CONSTRUCTION.
- FOR TRENCHES WITH MIXED CIRCUIT TYPES, APPLY THE CONDUIT SPACING FOR THE CIRCUIT TYPE WITH THE LARGER SPACING REQUIREMENT.
- APPROVED BACKFILL IS REQUIRED TO MEET THE DESIGNED RHO VALUES. USE THE SPECIFIED BACKFILL LISTED BELOW OR TEST NATIVE SOIL CONDITIONS TO CONFIRM MAX DEFINED RHO VALUES. MINIMUM 2" OF APPROVED BACKFILL COVERAGE AROUND CONDUITS IS REQUIRED.
- RHO 90 BACKFILL LOW STRENGTH FLUIDIZED THERMAL (SLURRY) BACKFILL WITH MIN 28 DAY COMPRESSIVE STRENGTH OF 150 PSI MUST BE USED TO ACHIEVE MAX RHO 90.

## TYP. BURIED CONDUIT TRENCH DETAILS



CONCRETE PAD DIMENSIONS							
PAD TYPE	L	W	t (THICKNESS)	AREA (S.F.)			
SWITCHGEAR**	7'-6"	5'-0"	8"	38			
SUPERCHARGERS*	15'-9"	4'-6"	10"	71			

#### NOTE:

- 1. SEE CONCRETE NOTES ON SHEET GN-2.
- REFER TO DETAIL 2/C-5 FOR SLAB REINFORCEMENT DETAILS.
- \*\* SWITCHGEAR ANCHORS SHALL BE: (8) 1/2"Ø HILTI HIT-HY 200 V3 + HIS-N B7 W/5" EFFECTIVE EMBEDMENT.

CONCRETE PAD DETAIL
SCALE: N.T.S.

**(2**)



PALO ALTO, CA 94304

(650) 681-5000



Dewberry Engineers Inc. 100 OCEANGATE SUITE 400 LONG BEACH, CA 90802 PHONE: 562.350.0570



11/08/24

HUGO WILLIAM JUSTINIANO, P.E. OREGON LICENCE No. 86604PE

DRAWN BY: GFS

CHECKED BY: SES

APPROVED BY: HJ

PROJECT #: 50123704

JOB #: 50183983

	SUBMITTALS							
REV.	DATE	DESCRIPTION						
0	11/08/24 10/08/24	ISSUED FOR PERMITS						
Α	10/08/24	ISSUED FOR 90% REVIEW						

SITE NAME:
WARRENTON, OR
(TRT ID: 438558)

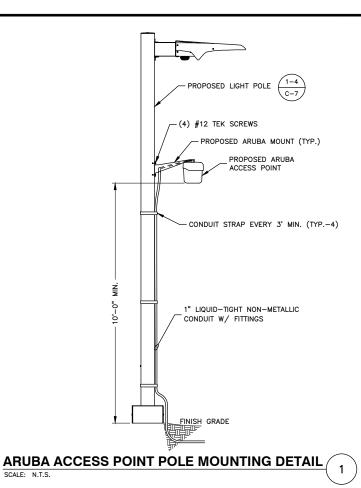
SITE ADDRESS:

695 US-101 WARRENTON, OR 97146

SHEET TITLE

CONSTRUCTION DETAILS III

SHEET NUMBER



- CADWELD CONNECTION

MANUFACTURER)

4000 PSI CONCRETE RUBBED FINISH ABOVE GRADE

IN & OUT OF BASES

\_1-1/4" SCHEDULE 40 PVC

#4 BARE COPPER GROUND - WIRE FROM GROUND ROD

STUBBED UP THROUGH BASE

BOND #4 COPPER

- GROUND

#4 HOOPS

WIRE TO REBAR

CONFIRM BASE DESIGN W/

MANUFACTURER SPECIFICATIONS.

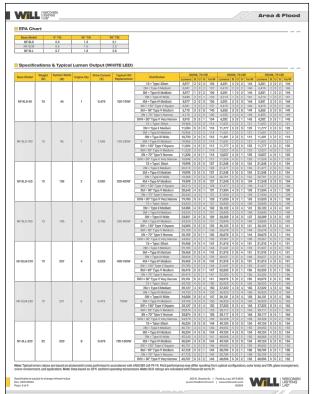
3" <del>-</del>

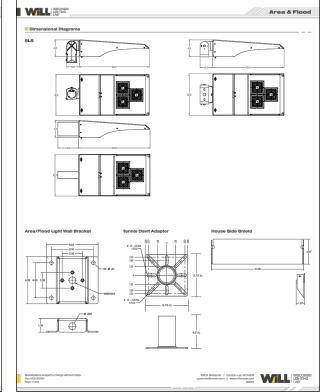
SECTION A-A

GALVANIZED STEEL ANCHOR BOLTS

-(SUPPLIED & DESIGNED BY POLE











LONG BEACH, CA 90802 PHONE: 562.350.0570



DRAWN BY: GFS

SES APPROVED BY HJ

CHECKED BY:

PROJECT #: 50123704

JOB #: 50183983

	SUBMITTALS							
REV.	DATE	DESCRIPTION						
0	11/08/24	ISSUED FOR PERMITS						
Α	10/08/24	ISSUED FOR 90% REVIEW						

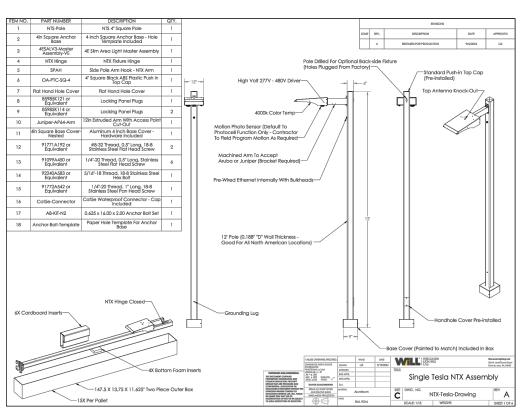
SITE NAME: WARRENTON, OR (TRT ID: 438558)

SITE ADDRESS: 695 US-101 WARRENTON, OR 97146

> CONSTRUCTION DETAILS IV

ORDER INFORMATION: PRODUCT ID: NF-SLS-100-40-HV-3W-RAL-MPS

**LIGHT FIXTURE & POLE DETAIL** 



ORDER INFORMATION:
TPN: 2136148-00-A LIGHT FIXTURE ASSEMBLY-WLL-NTX





DRILLED PIER

STUB UP PVC

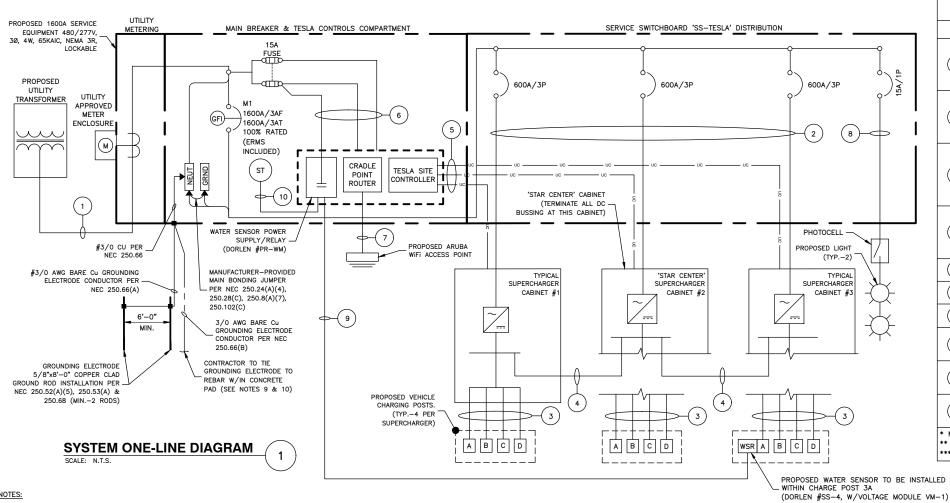
(TYP OF 8)

REQUIREMENT IN FIELD TO (3'-0" MAX.)

BOLT MFG HEIGHT I

1/2" INTO HOLE

REBAR TIES @ 3"



#### NOTES:

- CONDUCTOR LENGTHS ARE ESTIMATES ONLY, FINAL CONDUCTOR ROUTING PATH AND LENGTHS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD BASED ON PHYSICAL MEASUREMENTS. CONTRACTOR TO ORDER CONDUCTORS BASED ON FIELD MEASUREMENTS (MUST BE
- 2. ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) AND UTILITY COMPANY STANDARDS.
- 3. ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING
- 4. DC RUN LENGTH MAXIMUM IS 330' INCLUDING BURIED DEPTH. ANY DC RUN LENGTHS OVER THE MAXIMUM SHALL BE IMMEDIATELY BROUGHT TO
- 5. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRE CONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATION.
- 6. UTILITY CONDUITS, CONNECTORS, TRANSFORMER PAD & TRANSFORMER FOUNDATION TO BE INSTALLED PER UTILITY SPECIFICATION. CONFIRM LATEST SPECIFICATIONS PRIOR TO CONSTRUCTION.
- EXISTING UNDERGROUND UTILITIES LOCATED WITHIN AREA OF PROPOSED TRENCH & EQUIPMENT SITE AREA. HAND DIG AND RELOCATE AS
- 8. CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC SAFETY MEASURES THROUGHOUT DURATION OF CONSTRUCTION. COORDINATE ANY ACCESS ROAD CLOSURES W/OWNER.
- 9. SYSTEM GROUNDING RESISTANCE SHALL BE LESS THAN 25  $\!\Omega$  PER NEC. CONTRACTOR SHALL ADD 5/8"x8'-0" COPPER CLAD GROUND RODS WA 6'-0" MIN. SPACING PER NEC 250.52(A)(5), 250.53(A), & 250.68 AS NEEDED TO SYSTEM UNTIL RESISTANCE IS MET. COORDINATE WITH VENDOR FOR REQUIRED SYSTEM GROUNDING RESISTANCE BEYOND 25Ω.
- 10. CONTRACTOR SHALL CONFIRM THERE IS A MIN. OF 20 L.F. OF REBAR PRIOR TO GROUNDING TO ELECTRODE W/IN FOUNDATION. IF 20 L.F. IS NOT AVAILABLE, GROUNDING RODS MUST BE INSTALLED PER NOTE 9.
- 11. GROUND FAULT PROTECTION TESTING SHALL BE CONDUCTED PRIOR TO ENERGIZING THE SERVICE EQUIPMENT.
- 12. SERVICE EQUIPMENT IS LISTED FOR OPERATION AT 100% OF ITS RATING.
- 13. ELECTRICAL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED ELECTRICAL TESTING LABORATORY OR APPROVED BY THE CITY.

		SERVICE	SWITC	CHBOAR	RD 'SS-	-TESLA'	LOAD	SCHED	ULE		
CKT NO.	TRIP AMPS	DESCRIPTION		KVA			KVA		DESCRIPTION	TRIP AMPS CKT NO	CKT NO
CKI NO.	INIF AMES	DESCRIPTION	Α	В	С	Α	В	С	DESCRIPTION		CKI NO.
1			129.00	_	_	129.00	_	_			2
3	600A	SUPERCHARGER #1	_	129.00	_	_	129.00	_	SUPERCHARGER #2	600A	4
5			-	_	129.00	_	_	129.00			6
7			129.00	_	_	0.10	_	_	CONTROLLER	15A	8
9	600A	SUPERCHARGER #3	-	129.00	_	_	0.10	_	CONTROLLER		10
11			-	-	129.00	_	-	_	_	-	12
13	15A	SITE LIGHTING	-	-	0.25	_	-	_	_	-	14
15	-	-	-	-	-	_	-	_	_	-	16
			Α	В	С				•		
	TOTALS	APPARENT POWER	387.10 KVA	387.10 KVA	387.25 KVA	1					
		CURRENT	1396 A	1396 A	1396 A	]					

### SYSTEM PLACARD:

TESLA SUPERCHARGER 695 US-101, WARRENTON, OR 97146 1600A, 480/277, 3P, 4W PLACARDS SHALL BE (877) 798-3752 COLOR RED WITH 1' HEIGHT, CARDINAL WHITE -LETTERING, INSTALL (1) SCREW EACH CORNER PLACE ON SWITCHBOARD

TESLA EV SYSTEM DISCONNECT PLACE ON SWITCHBOARD MAIN

WARNING CONTROLS COMPARTMENT EQUIPMENT IS STILL LIVE WHEN THE MAIN SERVICE DISCONNECT IS IN THE "OFF POSITION. INDEPENDENT "CONTROLS DISCONNECT" LOCATED ADJACENT TO MAIN DISCONNECT

PLACE ON EXTERIOR OF CONTROLS COMPARTMENT PANE

SERVICE ELECTRICAL CIRCUIT SCHEDULE						
NO:	FROM	то	CONFIGURATION			
1	PROPOSED TRANSFORMER	PROPOSED SERVICE EQUIPMENT PANEL	(6) 6" PVC CONDUIT (BY CONTRACTOR) (CONTRACTOR TO CONFIRM LATEST SCOPE OF WORK & RESPONSIBILITIES PRIOR TO CONSTRUCTION)			
2	PROPOSED SERVICE BREAKER (600A) (TYP3)	PROPOSED TESLA SUPERCHARGER (TYP3)	[2 SETS:] (3) SOOKCMIL AL (THWN-2) (1) 500KCMIL AL (THWN-2) NEUT (1) #1 CU OR 2/0 AL EGC* IN 4" PVC/HDPE CONDUIT**			
3	PROPOSED TESLA SUPERCHARGER (TYP3)	PROPOSED TESLA V4 POST (TYP12)	[1 SET PER CHARGE POST:] (4) 600KCMIL AL (XHHW-2) (1000V RATED) (1) 2/0 AWG CU EGC (1000V RATED) & 1000V COMM CABLE*** IN 4" CONDUIT** (DURALINE ACCEPTABLE)			
4	'STAR CENTER' SUPERCHARGER CABINET DC BUS	DC BUS OF EACH TYPICAL SUPERCHARGER CABINET	[2 SETS:] (2) 600KCMIL AL (XHHW-2) (1) 1/0 AWG CU EGC & (1) 3/0 AWG AL DC MID 1000V RATED IN 3" PVC CONDUIT			
5	INTEGRATED SITE CONTROLLER	SUPERCHARGER (TYP3)	SHIELDED 600V RATED CAT6 COMM CABLE IN 1" PVC/HDPE CONDUIT**			
6	PROPOSED SERVICE EQUIPMENT: LINE (15A)	TESLA CONTROLS COMPARTMENT	FACTORY INSTALLED WIRING (BY MANUFACTURER)			
7	PROPOSED CRADLEPOINT ROUTER	PROPOSED ARUBA WIFI ACCESS POINT	(1) CAT5e OR CAT6 COMM CABLE IN 1" PVC/HDPE CONDUIT**			
8	PROPOSED SERVICE EQUIPMENT: PANEL (15A)	PROPOSED SITE LIGHTING	(2) #10 CU (1) #10 CU GND IN 1" PVC/HDPE CONDUIT**			
9	TESLA CONTROLS COMPARTMENT (WATER SENSOR RELAY)	PROPOSED WATER SENSOR INSTALLED W/IN CHARGE POST 3A	(2) #12 CU (1) #12 CU GND IN 3/4" PVC CONDUIT			
10	TESLA CONTROLS COMPARTMENT (WATER SENSOR RELAY)	SHUNT TRIP COIL	FACTORY INSTALLED WIRING (BY MANUFACTURER)			

(WATER SENSOR RELAY) MODIFIED PER NEC 250.64(A)(2)

\*\* PER UL 615A AND NEC 253, LISTED HDPE CONDUIT PERMITTED. CONTRACTOR TO CONFIRM USE W/ TESLA CM \*\*\* COMM CABLE TO BE ROUTED W/IN 4" CONDUIT. 1.25" CONDUIT CAN BE USED FOR RUNS OVER ±200FT.

### NOTE:

- THE DC BUS SHALL BE CONFIGURED IN A RADIAL FASHION WHERE ALL DC BUS CONDUCTORS ROUTE FROM FACH 'TYPICAL' SUPERCHARGER CABINET, AND TERMINATE INTO THE ONE, 'STAR CENTER' SUPERCHARGER CABINET.
- USE OF DURALINE FOR SUPERCHARGER TO CHARGE POST DC CONDUITS IS AN APPROVED ASSEMBLY. SEE TUV CERTIFICATION ON SHEET E-2

ELECTRICAL S.O.W. RESPO	NSIBILITII	ES
SCOPE	BY UTILITY	BY CONTRACTOR
PROVIDE PRIMARY SIDE TRENCHING		X
PROVIDE & INSTALL PRIMARY SIDE CONDUITS W/ PULLWIRE		x
PROVIDE & INSTALL PRIMARY SIDE CONDUCTORS	Х	
PROVIDE & INSTALL UTILITY TRANSFORMER PAD		X
PROVIDE & INSTALL UTILITY TRANSFORMER	Х	
INSTALL PRIMARY & SECONDARY CONNECTIONS AT UTILITY TRANSFORMER	×	
PROVIDE & INSTALL METER	×	
PROVIDE CTs	×	
INSTALL CTs (INSIDE SWITCHGEAR)	×	
PROVIDE SECONDARY SIDE TRENCHING		X
PROVIDE & INSTALL SECONDARY SIDE CONDUITS W/ PULLWIRE		x
PROVIDE & INSTALL SECONDARY SIDE CONDUCTORS	Х	
PROVIDE ROAD CUTS/ROAD BORES		x
PROVIDE & INSTALL PAVEMENT REPLACES		X

NOTE: SCOPE SHOWN ABOVE WAS PROVIDED BY PACIFIC CORP, FIELD VERIFY PRIOR TO CONSTRUCTION

### UTILITY FAULT CURRENT

TRANSFORMER: 1000 KVA

SECONDARY VOLTAGE: 277/480V

SECONDARY FAULT CURRENT: 24,000 A\* \* VALUE BASED ON INFINITE BUS CALCULATION WITH ASSUMED Z = 5%)





Dewberry Engineers Inc. 100 OCEANGATE SUITE 400 LONG BEACH, CA 9080 PHONE: 562.350.0570



DRAWN BY: GFS CHECKED BY: SES

APPROVED BY

PROJECT #: 50123704

JOB #: 50183983

	SUBMITTALS							
REV.	DATE	DESCRIPTION						
0	11/08/24	ISSUED FOR PERMITS						
Α	10/08/24	ISSUED FOR 90% REVIEW						

SITE NAME: WARRENTON, OR (TRT ID: 438558)

SITE ADDRESS:

695 US-101 WARRENTON, OR 97146

**ELECTRICAL ONE-LINE** DIAGRAM

#### AC SUPERCHARGER LENGTHS ESTIMATED SUPERCHARGER RRFAKER PANEL LENGTH\* 29' LENGTH OF AC AL WIRE PER CONDUIT\*\*: 116' TOTAL NUMBER OF CONDUITS: 2 LENGTH OF AC AL WIRE \*\*\*: 232' 32' LENGTH OF AC AL WIRE PER CONDUIT\*\*: 128 TOTAL NUMBER OF CONDUITS: LENGTH OF AC AL WIRE\*\*\* 256' 12' 37' LENGTH OF AC AL WIRE PER CONDUIT\*\*: 148' TOTAL NUMBER OF CONDUITS: 2 LENGTH OF AC AL WIRE\*\*\* TOTAL LENGTH OF AC AL WIRE\*\*\*\*: 784' TOTAL LENGTH OF EGC\*\*\*\*: 196' NOTES:

- SEE SHEET E-1 FOR WIRE CONFIGURATION.
- AC CONDUCTORS: 25 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH & TRANSITIONS.
- \*\* ESTIMATED LENGTH OF AI WIRE = SUM OF ESTIMATED LENGTH X 4 WIRES PER SUPERCHARGER
- \*\*\* LENGTH = LENGTH OF AC AL WIRE PER CONDUIT X # OF CONDUITS
- \*\*\*\* TOTAL LENGTH = SUM OF AC LENGTHS
- \*\*\*\*\* TOTAL LENGTH OF EGC = LENGTH X # SETS

DC CHARGING POST LENGTHS							
SUPERCHARGER	CHARGE POST	LINEAR LENGTH	ESTIMATED DC WIRE LENGTH*				
	1A	104'	126'				
1	1B	95'	117'				
ı	1C	86'	108'				
	1D	63'	85'				
	2A	64'	86'				
2	2B	40'	62'				
2	2C	43'	65'				
	2D	19'	41'				
	3A	26'	48'				
3	3B	74'	96'				
3	3C	86'	108'				
	3D	90'	112'				
	1054'						
	4216'						
TOTAL	1054'						

- SEE SHEET E-1 FOR WIRE CONFIGURATION.
- 2. ANY DC RUN OVER 330' SHALL BE BROUGHT TO THE ATTENTION OF TESLA CM.
- \* 22 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH & TRANSITIONS.
- \*\* ESTIMATED LENGTH OF DC AL WIRE = SUM OF ESTIMATED LENGTH X 4 WIRES PER SUPERCHARGER

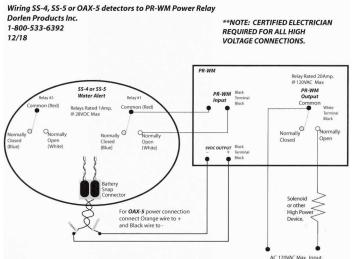
# SECONDARY SERVICE LENGTHS

	LINEAR LENGTH	ESTIMATED LENGTH*
TRANSFORMER TO SWITCHGEAR	10'	35'
TOTAL LE	BY UTILITY	
NUMBER OF WIRE	TBD	
TOTAL LENGTH	BY UTILITY	
NOTES:		

#### NOTES:

- SEE SHEET E-1 FOR WIRE CONFIGURATION.
- \* AC CONDUCTORS: 25 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR BURIED DEPTH & TRANSITIONS.
- \*\* ESTIMATED LENGTH OF WIRE = SUM OF ESTIMATED LENGTH X 4
- \*\*\* LENGTH OF WIRE PER DISCONNECT = ESTIMATED TOTAL LENGTH OF WIRE X # WIRE SETS

## **CONDUCTOR LENGTH TABLES**



DORLEN #SS-4 W/ VOLTAGE MODULE VM-1

SHUNT TRIP TO BE INSTALLED AT SWITCHBOARD MAIN BREAKER. WATER SENSOR TO BE INSTALLED WITHIN CHARGE POST 3A.

ALL WIRING SHALL BE (2) #12 CU & (1) #12 CU GND IN 3/4" CONDUIT.

# ORDER INFORMATION: DORLEN #PR-WM RELAY



TUV Rheinland of North America, Inc. Letter Report

295 Foster St. #100 Littleton, MA 01460, USA www.tuv.com

Report No. 32195766.001 Project No. 234176170

Mr. Mark Edwards Tesla, Inc. 3500 Deer Creek Rd Palo Alto, CA 94304, USA

11/19/2021

Tel: (678) 438 9475 Email: Markedwards@tesla.com

Subject: Duraline Conduits 2", 3" and 4" Testing

Dear Mr. Mark Edwards

This letter report is to present the results of testing results of Duraline flexible conduit for Tesla supercharges station installation in accordance with the following standards:

- ANSI/CAN/UL1660 Liquid-tight Flexible Nonmetallic Conduit, 6<sup>th</sup> Ed. dated 01/30/2019
- UL 651A Schedule 40 and 80 High Density Polyethylene (HDPE) Conduit, 5<sup>th</sup> Ed. dated 03/10/2017
- UL 1990 Nonmetallic Underground Conduit with Conductors, 3<sup>rd</sup> Ed. dated 01/20/2017

The project was authorized by the signed PO #4900294467, dated 08/07/2021 for the project proposal # 234041515, the following tests have been completed by 11/02/2021 in the Duraline lab on Knoxville TN

The following table lists completed tests in accordance with the standards UL 1990, UL 651A and UL 1660.

No.	UL 1990 Clause	UL 651A Clause	UL 1660 Clause	Test description	Test Result
	Clause	Clause	Clause		
1	10	11.3	-	Water absorption test	Pass
2	11	9.3	-	Low temperature handling test	Pass
3		-	5.6	Tension	Pass
4	-	-	5.5	Deflection test	Pass
5			5.4	Cold Impact	Pass
6	15	11.2	5.11	Moisture penetration	Pass
8	17	-	5.16	Direct burial crush test	Note

SPECIALTY

**SMOOTH-COR FLEX** 

• Lightweight: Easier installation, 40% lighter than PVC

· Compatibility: Easily adapts to other conduit materials

Low COF: Longer cable pulls with lower cable stress

DETAILS Manufactured from flexible HDPE (High Density Polyethylene)

PACKAGING Available on steel reels or 250' coils

© dura-line +1 800 847 7661 TL9000 (20)

SPECIFICATIONS All Smooth-Cor Flex dimensions meet or exceed one or more of the following: ASTM D-3350, ASTM D-638, ASTM D-792, ASTM D-1238, ASTM D-1693

CONDUIT MARKINGS Permanent marking along conduit includes: material, relevant standards, production info, and sequential feet or meter markings.

PRE-INSTALLED TAPE Factory pre-installed Bull-Line™ 1250lb Pull Tape comes standard in Smooth-Cor Flex on steel reels. Smooth-Cor Flex coils are only available as empty.

· Glueless coupling: Safe, quick assembly

Gasketed: Air and watertight

 Flexible: Reduces/eliminates the need for sweeps and bends Crush resistant: Equivalent to Schedule 40 PVC

• As discussed with Duraline engineers, conduit stiffness varies with wall thickness per Table 5 in the standard ASTM F2160 - 16 Solid Wall High Density Polyethylene (HDPE) Conduit based on Controlled Outside Diameter (OD). The stiffness calculated for conduit 2", 3" and 4" are 101+/22 psi, 92+/-2 psi

**TÜV**Rheinland® Precisely Right.

Letter Report

TUV Rheinland of North America, Inc.

295 Foster St #100

and 61+/-2 psi. The test has been performed per ASTM 2412 as required by both UL 1990 and UL 1660. All samples were visually inspected and no any cracks observed on samples after the test. Those stiffness test data are reference for Tesla engineers to determine conduit burial depth for Tesla

The Duraline conduit test report is enclosed

The above Duraline conduits can be used in the field installation of charge post CS-350-A2 per NEC with adequate depth calculation

If there are any questions regarding the results contained in this report, or any of the other services offered by TUV Rheinland of North America, Inc., please do not hesitate to contact the undersigned

Please note, this letter report does not represent authorization for the use of any TUV Rheinland certification

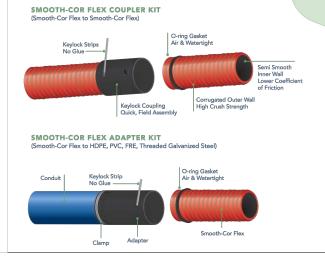
Email:zhu@us.tuv.cor

Howard Liu

Rev. 0

Email:hliu@us.tuv.com





#### NOTES:

- 1. DURALINE SMOOTH-COR FLEX CONDUIT HAS BEEN CERTIFIED AS CRITICAL COMPONENT OF THE SUPERCHARGER TO TUV.
- 2. PRODUCT WILL BE USED TO CONNECT THE TESLA SUPERCHARGER CABINET TO TESLA CHARGE POST.
- 3. DURALINE SMOOTH-COR FLEX CONDUIT SHALL NOT BE INSTALLED WITHIN SUPERCHARGER CABINETS OR POST. CONTRACTOR SHALL TRANSITION SMOOTH—COR FLEXIBLE CONDUIT TO PVC CONDUIT AND SWEEP PVC CONDUIT INTO THE SUPERCHARGER CABINETS OR POST.

### **DURALINE SMOOTH-COR FLEX DETAILS**

3

695 US-101 WARRENTON, OR 97146

3500 DEER CREEK ROAD

PALO ALTO, CA 94304

(650) 681-5000

Dewberry

100 OCEANGATE

LONG BEACH, CA 90802

11/08/24

GFS

SES

50123704

50183983

PHONE: 562.350.0570

SUITE 400

OREGON

EXPIRES: 6/30/25

DRAWN BY:

CHECKED BY:

APPROVED BY

PROJECT #:

REV. DATE

JOB #:

JOSEPH GIGANTIFILO, P.F.

OREGON LICENCE No. 95150PE

SUBMITTALS

0 11/08/24 ISSUED FOR PERMITS

A 10/08/24 ISSUED FOR 90% REVIEW

SITE NAME:

WARRENTON, OR (TRT ID: 438558)

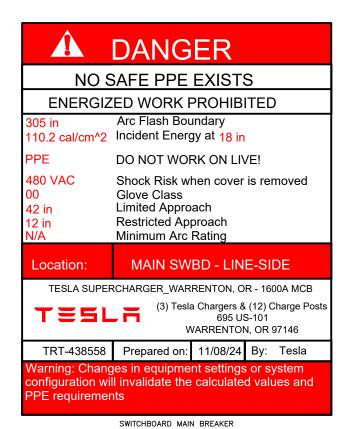
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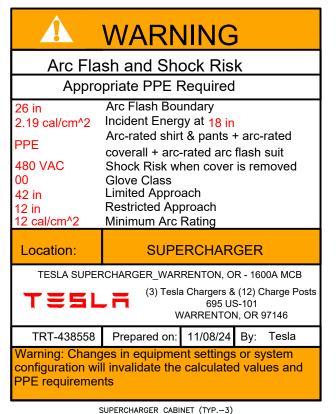
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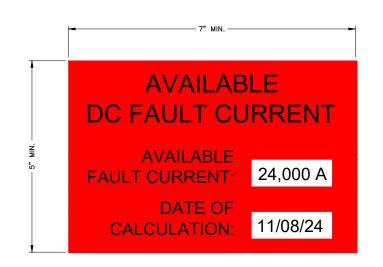
Dewberry Engineers Inc.

**ELECTRICAL DETAILS** 

WATER SENSOR - POWER RELAY DETAIL SCALE: N.T.S.







ERCHARGER CABINET (TTP.-3)

ARC FLASH WARNING LABELS
SCALE: N.T.S.

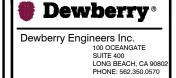
AVAILABLE FAULT CURRENT LABEL

**√** 2

BREAKER SETTINGS — EATON MAIN			
MAIN SERVICE SWITCHBOARD - 1600A MCB - ZPOWER			
		PHASE	GROUND
DESIGNATION	FRAME AMPS	1600A	1600A
DESIGNATION	AIC RATING	65	65
FRAME	MANUFACTURER	EATON	EATON
FRAME	TYPE/MODEL	SBN-616	SBN-616
	SENSOR AMPS	1600	1600
	PLUG AMPS	1600	1600
TRIP UNIT	DESCRIPTION	LSI, 1600AF, 200-1600AP	GF, 800-6000AF
	TYPE/MODEL	MAGNUM SB, DT 520	MAGNUM SB, DT 520
	LONG DELAY PICKUP (Ir)	1 (1600A)	
	LONG DELAY TIME (tr)	24 S	
	SHORT DELAY PICKUP (Isd)	2.5 (4000A)	
TRIP UNIT SETTINGS	SHORT DELAY TIME (12t)	0.1 S	
(1600A TRIP)	INSTANTANEOUS PICKUP (Ii)	6 (9600A)	
	GROUND FAULT PICKUP (Ig)		0.75 (1200A)
	GROUND FAULT DELAY TIME (tg)		0.5 S
SUPERCHARGER CABINET BREAKER - 600A			
TRIP UNIT	TYPE/MODEL	PDG3 THERMAL MAG TI	RIP UNIT (600A TRIP)
TRIP UNIT SETTINGS	INSTANTANEOUS (II)	5 (3000A)	

	MAIN SERVICE SWITCHB	OARD - 1600A MCB -	- ZPOWER
		PHASE	GROUND
DECIONATION	FRAME AMPS	1600	1600
DESIGNATION	AIC RATING	65	65
FRAME	MANUFACTURER	GE	GE
FRAME	TYPE/MODEL	SSF	SSF
	SENSOR AMPS	1600	1600
	PLUG AMPS	1600	1600
TRIP UNIT	DESCRIPTION	LSI(CB), 800-2000AF, UL489	GF, 200-2000AF
	TYPE/MODEL	SS, SH POWERBREAK II, EGTU	SS, SH POWERBREAK I &
	LONG TIME PICKUP (LT)	1.0 (1600A)	
	LONG TIME DELAY (LTD)	C-7	
	LT CURVE	I2T	
TDIDT	SHORT TIME PICKUP (STPU)	2.5 (4000A)	
TRIP UNIT SETTINGS (1600A TRIP)	SHORT TIME DELAY (STD/I^S T)	ST02-MIN I^S T: OFF	
,	INSTANTANEOUS PICKUP (INST PU)	4.5 (7200A)	
	GROUND FAULT PICKUP (GF PU)		0.75 (1200A)
	GROUND FAULT DELAY (GFD/I^S T)		GFD09 I^S T: OFF
	SUPERCHARGER (	CABINET BREAKER - 6	600A
TRIP UNIT	TYPE/MODEL	PDG3 THERMAL MAG	TRIP UNIT (600A TRIP)
TRIP UNIT INSTANTANEOUS (II) 5 (3000A)		3000A)	

3500 DEER CREEK ROAD
PALO ALTO, CA 94304
(650) 881-5000





DRAWN BY:	GFS
CHECKED BY:	SES

APPROVED	BY:	HJ

50123704

ı	JOB #:	50183983

PROJECT #:

	SUBMITTALS		
REV.	DATE	DESCRIPTION	
0	11/08/24	ISSUED FOR PERMITS	
Α	10/08/24	ISSUED FOR 90% REVIEW	

SITE NAME:
WARRENTON, OR
(TRT ID: 438558)

SITE ADDRESS:

695 US-101
WARRENTON, OR 97146

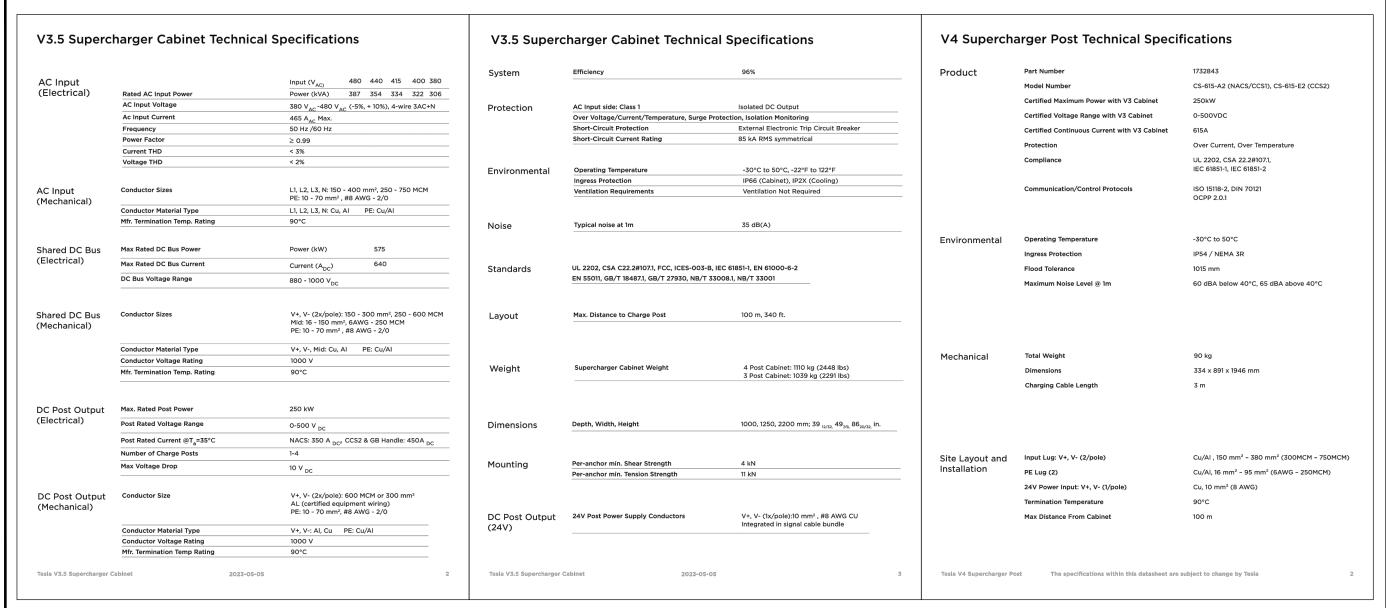
ARC FLASH LABELS & BREAKER SETTINGS

E-3

BREAKER SETTINGS

IF NTS

-( 3



THILM TO SOON DEER CREEK ROAD PALO ALTO, CA 94304

(650) 681-5000



Dewberry Engineers Inc. 100 OCEANGATE SUITE 400 LONG BEACH, CA 90802 PHONE: 562.350.0570



JOSEPH GIGANTIELLO, P.E. OREGON LICENCE No. 95150PE

DRAWN BY: GFS

CHECKED BY: SES

APPROVED BY:

PROJECT #: 50123704

JOB #: 50183983

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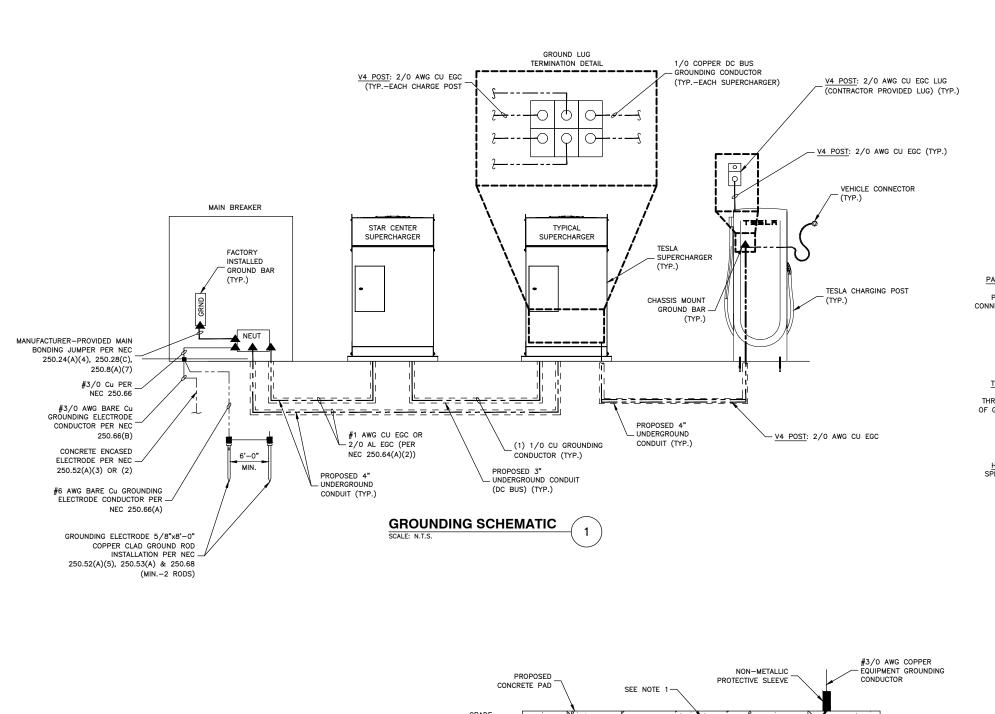
SHEET TITLE

REFERENCE DATASHEETS

SHEET NUMBER

E-4

TESLA EQUIPMENT DATASHEETS



CADWELD CONNECTIONS (OR APPROVED EQUAL)

PARALLEL HORIZONTAL HORIZONTAL STEEL SURFACE TO FLAT STEEL SURFACE OR CONDUCTORS PARALLEL THROUGH CONNECTION OF HORIZONTAL



THROUGH CABLE TO
GROUND ROD
THROUGH CABLE TO TOP OF GROUND ROD TYPE GT



CABLES



RANGE OF VERTICAL PIPES TYPE VS

**GROUND CONNECTION DETAILS** 

BURNDY CONNECTIONS (OR APPROVED EQUAL)





STRANDED INSULATED TYPE 2-YA-2



COPPER LUGS TWO HOLE - LONG BARREL LENGTH TYPE YA-2

2

JOB #:

DRAWN BY:

CHECKED BY:

APPROVED BY

PROJECT #:

	SUBMITTALS		
REV	. DATE	DESCRIPTION	
0	11/08/24	ISSUED FOR PERMITS	
Α	10/08/24	ISSUED FOR 90% REVIEW	

3500 DEER CREEK ROAD PALO ALTO, CA 94304

(650) 681-5000

**Dewberry**®

OREGON

11/08/24

GFS

SES

50123704

50183983

EXPIRES: 6/30/25

JOSEPH GIGANTIELLO, P.E. OREGON LICENCE No. 95150PE

100 OCEANGATE SUITE 400 LONG BEACH, CA 90802 PHONE: 562.350.0570

Dewberry Engineers Inc.

SITE NAME: WARRENTON, OR (TRT ID: 438558)

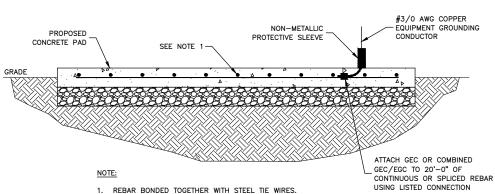
SITE ADDRESS: 695 US-101

WARRENTON, OR 97146

GROUNDING, SCHEMATIC

& DETAILS

G-1



2. CONTRACTOR SHALL DOCUMENT AND HAVE THE AHJ INSPECT AND APPROVE THE CONCRETE ENCASED ELECTRODE PRIOR TO POURING CONCRETE

**CONCRETE ENCASED ELECTRODE DETAIL** SCALE: N.T.S.