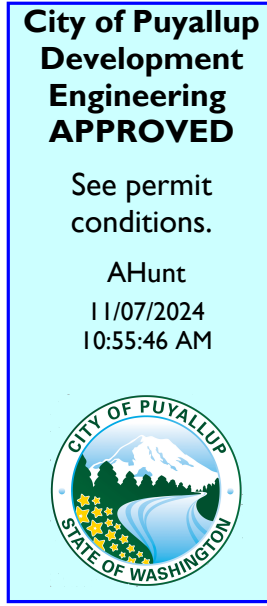
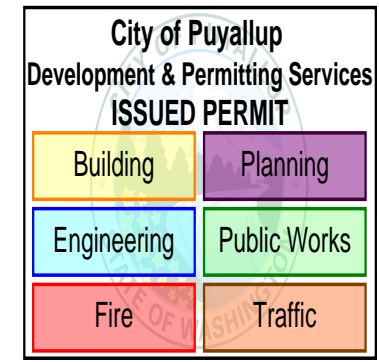
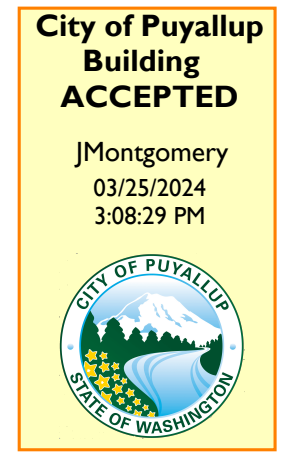


# TESLA

## SUPERCHARGER STATION

3310 S MERIDIAN ST.  
 PUYALLUP, WA 98373  
 TRT27473  
 TARGET STORE ID: T0342

FULL SIZED LEDGIBLE COLOR  
 PLANS ARE REQUIRED TO BE  
 PROVIDED BY THE PERMITTEE ON  
 SITE FOR ALL INSPECTIONS  
 (MIN. PLAN SIZE 24" X 36")

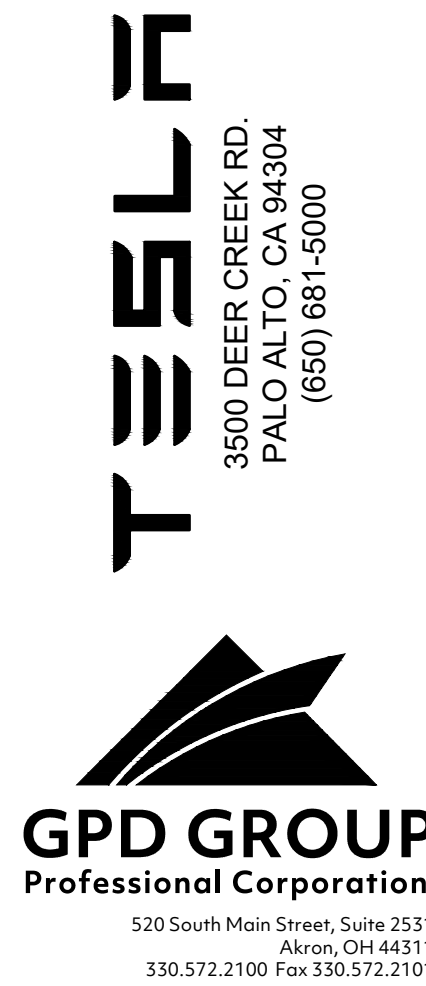


The applicant shall request a sediment control and erosion inspection with a City Engineering Inspector through the CityView portal at least 48 hours in advance of job start. See City Standards 02.03.02 & 05.02.01

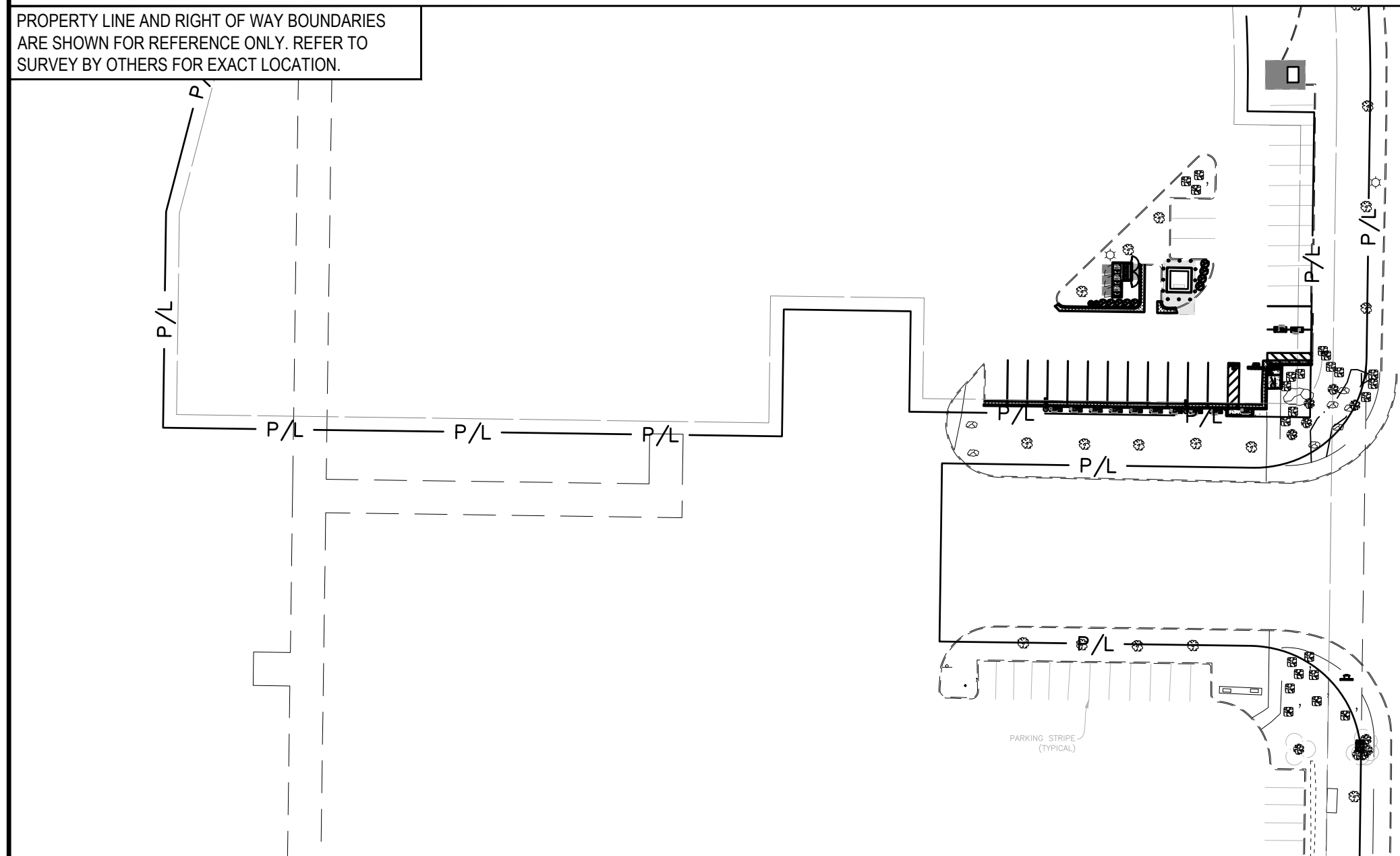
Sediment control and erosion procedures shall be practiced eliminating and preventing off site damage. Stormwater runoff originating upgrade of exposed areas shall be controlled to reduce erosion and sediment loss during the period of exposure. Refer to the Stormwater Fact Sheet and City standard details 02.03.02 & 05.02.01 for typical erosion and sedimentation control methods. Attached in CityView

Call Before You Dig. It's the law. Locate all utilities prior to starting work. Dial 811 or call 1-800-424-5555.

No proposed footings, posts, or supports shall be constructed on or above any existing public utility connections without first relocating the utility services or protecting it in place.



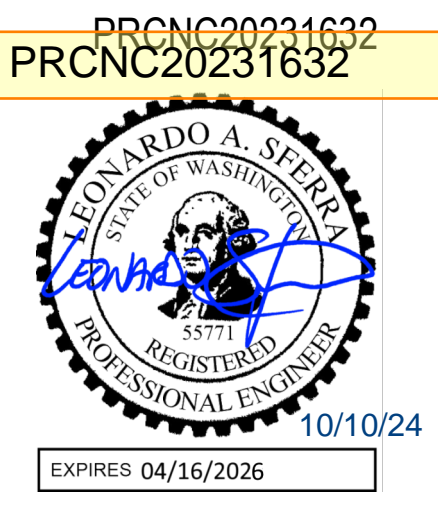
SITE LAYOUT



VICINITY MAP



REV.	DATE	DESCRIPTION
A	08/11/2023	ISSUED FOR 50% REVIEW
B	09/11/2023	ISSUED FOR 60% REVIEW
C	09/13/2023	ISSUED FOR 90% REVIEW
D	10/00/2023	ISSUED FOR SIGN & SEAL
E	01/19/2024	ISSUED FOR SIGN & SEAL - UTILITY UPDATES
0	04/26/2024	ADDRESSED COMMENTS PER CITY OF PUYALLUP
1	10/10/2024	ADDRESSED ALL COMMENTS



SITE INFORMATION

APN: 6021010030  
 COUNTY: PIERCE  
 AHJ: CITY OF PUYALLUP

LATITUDE (NAV88): N 47°09'31.57" 47.15877°  
 LONGITUDE (NAV88): W 122°17'37.28" -122.29369°

PROJECT CONTACTS

UTILITY COMPANY: PUGET SOUND ENERGY  
 CONTACT: LONNIE ADAMS (360) 764-6736  
 LONNIE.ADAMS@PSE.COM

PROPERTY OWNER: DAYTON HUDSON CORPORATION

TESLA DESIGN MANAGER: AELI FURTADO (425) 681-6891  
 AFURTADO@TESLA.COM

TESLA CONSTRUCTION MANAGER: MATT FERGUSON (951) 288-3372  
 MAFERGUSON@TESLA.COM

PERMITTING JURISDICTION: CITY OF PUYALLUP  
 CONTACT: TBD

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:  
 2021 WASHINGTON STATE BUILDING CODE  
 2021 WASHINGTON STATE ENERGY CODE  
 2020 NATIONAL ELECTRIC CODE

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.

AS USED HEREIN, IBC SHALL REFER TO INTERNATIONAL BUILDING CODE AND NEC SHALL REFER TO NATIONAL ELECTRIC CODE.

WA DEPT OF TRANSPORTATION SPECIFICATIONS  
 THE STANDARD SPECIFICATIONS OF THE STATE OF WA, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS SHALL GOVERN THIS IMPROVEMENT.

PROJECT DESCRIPTION

- INSTALL (3) V3.5 SUPERCHARGER CABINETS
- INSTALL (12) V4 PAYMENT VARIANT SUPERCHARGER POSTS
- INSTALL (1) SWITCHGEAR ASSEMBLY WITH INTEGRATED TESLA SITE CONTROLLER AND PRIMARY BROADCAST UNIT
- INSTALL (1) UTILITY TRANSFORMER, (1) METER, AND OTHER ASSOCIATED UTILITY EQUIPMENT
- INSTALLATION OF (2) POLE MOUNTED LUMINAIRES
- INSTALLATION OF (1) WIRELESS ACCESS POINT

FLOOD HAZARD NOTE

THE SITE IS LOCATED IN FLOOD ZONE "X" (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER FLOOD INSURANCE MAP NUMBER 53053C0341E, EFFECTIVE DATE - 03/07/2017.

PLAN REPRODUCTION WARNING

CONTRACTORS SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS, AND FIELD CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY OWNER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

DESIGN LOADING

SNOW LOADS:  
 GROUND SNOW LOAD (P<sub>g</sub>) 20 PSF

LATERAL LOAD DESIGN DATA:  
 WIND DESIGN DATA (ASCE 7-16):  
 BASIC WIND SPEED (V<sub>ULT</sub>) 97 MPH  
 RISK CATEGORY II  
 EXPOSURE CATEGORY C

SEISMIC DESIGN DATA (ASCE 7-16):  
 1.0 SEISMIC IMPORTANCE FACTOR (I) 1.0  
 RISK CATEGORY II  
 SITE CLASS (ASSUMED) D

MAPPED SPECTRAL RESPONSE:  
 SHORT PERIODS (S<sub>0</sub>) 1.262  
 1 SEC. PERIODS (S<sub>1</sub>) 0.435

SPECTRAL RESPONSE COEFF.  
 SHORT PERIODS (S<sub>0S</sub>) 1.01  
 1 SEC. PERIODS (S<sub>1S</sub>) 0.541

SEISMIC DESIGN CATEGORY D

FROST DEPTH 10 IN

SHEET INDEX

CIVIL	SHEET TITLE
C-001	COVER SHEET
	ENGINEERING DESIGN SURVEY 1 OF 2 (BY OTHERS)
	ENGINEERING DESIGN SURVEY 2 OF 2 (BY OTHERS)
C-002	TESLA DATASHEET (FOR REFERENCE ONLY)
C-003	CIVIL CONSTRUCTION NOTES
C-101	EXISTING CONDITIONS AND DEMOLITION PLAN
C-111	CIVIL SITE PLAN
C-201	CIVIL DETAILS
C-202	CIVIL DETAILS
C-203	CIVIL DETAILS
C-204	CITY OF PUYALLUP GENERAL NOTES AND DETAILS
C-301	EASEMENT PLAN
ELECTRICAL	SHEET TITLE
E-001	ELECTRICAL GENERAL NOTES
E-101	ELECTRICAL SITE PLAN
E-201	SINGLE LINE DIAGRAM & PANEL SCHEDULE
E-301	ELECTRICAL DETAILS
E-401	CONDUIT SPECIFICATIONS



Washington Call Before You Dig  
 811 or 1-800-424-5555  
 IT'S THE LAW. LOCATE ALL UTILITIES PRIOR TO STARTING WORK

TESLA SUPERCHARGER STATION  
 3310 S MERIDIAN ST., (TESLA SUPERCHARGER)  
 PUYALLUP, WA 98373

PROJECT MANAGER	DESIGNER
IM	CPC

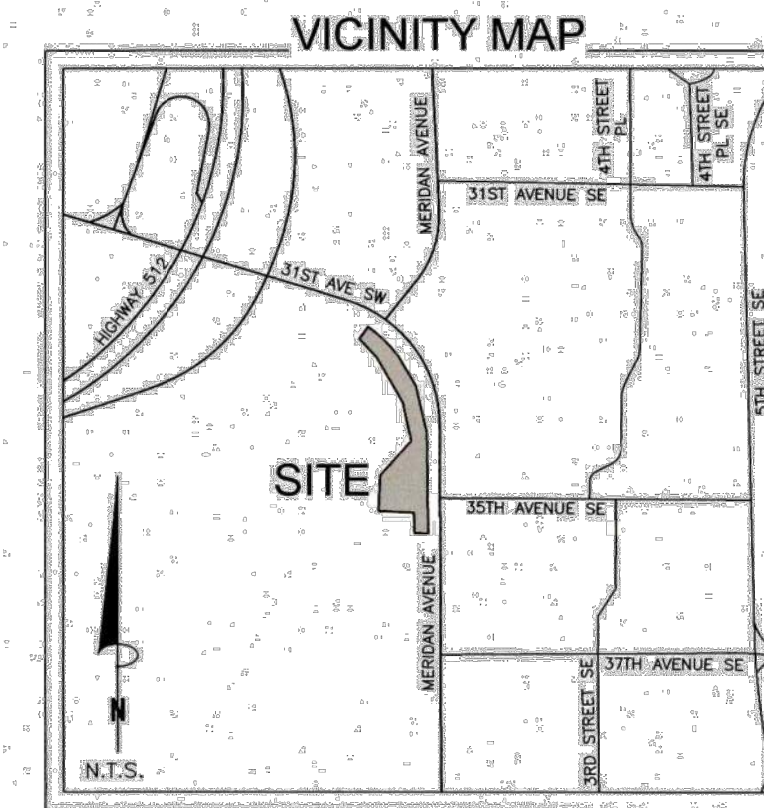
JOB NO.  
 2023241.47

C-001

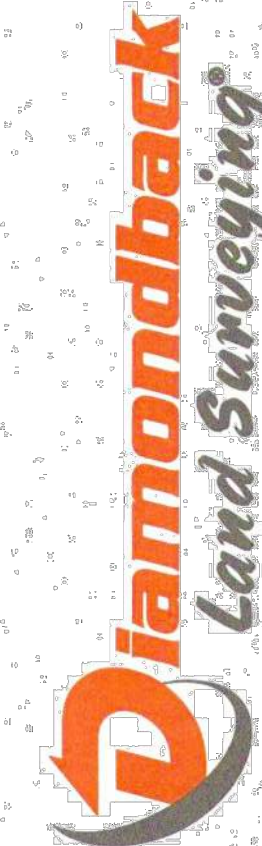
COVER SHEET

City of Puyallup  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic



PRCNC20231632



**EASEMENTS & ENCUMBRANCES:**

- Item No. 1A Construction, Operating and Reciprocal Easement Agreement 12/23/1987 Book: 463 Page: 1599 -IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
- Item No. 2A First Amended to Construction, Operating and Reciprocal Easement Agreement 10/11/1989 Book: 570 Page: 2670 -IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
- Item No. 3A Second Amended to Construction, Operating and Reciprocal Easement Agreement 10/10/1995 Book: 1163 Page: 558 -IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
- Item No. 4A Release 04/25/1994 Book: 1016 Page: 836 -MAY BE LOCATED ON SURVEY AREA, DOCUMENT RELEASES CONSTRUCTION OPERATION AND RECIPROCAL EASEMENT RECORDED IN RECORDING NO. 8712230395.
- Item No. 5A Easement Agreement 05/03/1991 Book: 681 Page: 3172 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 6A Easement Deed 07/28/1992 Book: 796 Page: 1291 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 7A Easement 09/27/1991 Book: 714 Page: 2279 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 8A Easement Deed 07/20/1994 Book: 1044 Page: 1952 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 9A Maintenance Agreement 07/27/1994 Book: 1046 Page: 1005 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 10A Easement Agreement 10/03/1994 Book: 1065 Page: 2595 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 11A Easement Agreement 10/03/1994 Book: 1065 Page: 2602 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 12A Easement Agreement 03/17/1995 Book: 1106 Page: 1627 -MAY BE LOCATED ON THE SURVEY AREA, INSUFFICIENT MATHEMATICAL DESCRIPTION.
- Item No. 13A Easement for Underground Electric System 11/01/1995 Book: 1170 Page: 282 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 14A Amendment to Easement 07/20/1994 Book: 1270 Page: 1482 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 15A Amendment to Easement Agreement 10/01/1996 Book: 1270 Page: 1494 -IS LOCATED ON THE SURVEY AREA, AS SHOWN HEREON.
- Item No. 16A Declaration of Easements, Covenants and Conditions 07/19/1999 Document No. 9907190771 -IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
- Item No. 17A Easement for Underground Electric System 11/13/1987 Book: 457 Page: 2916 -IS LOCATED ON THE SURVEY AREA, AS SHOWN HEREON.
- Item No. 18A Memorandum of Agreement 04/17/1989 Book: 539 Page: 1950 -IS LOCATED ON THE SURVEY AREA, AS SHOWN HEREON.
- Item No. 19A South Hill Mall 05/28/1993 Book: 891 Page: 3852 -IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE AND AS SHOWN HEREON.

Items not listed above are determined non-survey related items and are not plotted hereon.

**EASEMENTS & ENCUMBRANCES:**

- Item No. 1B Easement Deed 08/18/1988 Book: 502 Page: 2577 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 2B Amendment to Easement 10/01/1996 Book: 1270 Page: 1530 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 3B Second Amendment to Easement Agreement 04/28/2003 Document No. 200304280865 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 4B Easement Agreement 05/08/1991 Book: 681 Page: 3172 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 5B Easement Deed 07/28/1992 Book: 796 Page: 1291 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 6B Easement 09/27/1991 Book: 714 Page: 2279 -IS NOT LOCATED ON THE SURVEY AREA.
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- Item No. 15B Declaration of Easements, Covenants and Conditions 07/19/1999 Document No. 9907190771 -IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
- Item No. 16B Declaration of Covenants, Conditions and Restrictions 07/19/1999 Document No. 9907190772 -IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.
- Item No. 17B Water Utility Easement 03/06/2019 Document No. 201903060135 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 18B Easement 09/17/2021 Document No. 202109170921 -IS NOT LOCATED ON THE SURVEY AREA.
- Item No. 19B Memorandum of Agreement 04/17/1989 Book: 539 Page: 1950 -IS LOCATED ON THE SURVEY AREA, AS SHOWN HEREON.
- Item No. 20B South Hill, Phase I 05/28/1993 Book: 891 Page: 3852 -IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE AND AS SHOWN HEREON.
- Item No. 21A Boundary Line Adjustments 07/25/1994 Document No. 9407250271 -IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.

Items not listed above are determined non-survey related items and are not plotted hereon.

**PARENT PARCEL DESCRIPTION:**

Lot 3, South Hill Mall, Phase I, recorded in Reception No. 9305281172, on May 28, 1993, and Parcel B, Boundary Line Revision, recorded in Document No. 9407250271, on April 4, 1994, City of Puyallup, Pierce County, Washington.

**NOTES:**

- This is not intended to be a full boundary survey; the property lines depicted here on are based upon record information provided in Service Reports, prepared by First Corporate Solutions, order numbers ORD-1574685-WBL4D1 and ORD-1574711-R4Y3N2, with effective index dates of March 7, 2023 and March 13, 2023, respectively, and related to best fit existing improvements.
- Subsurface information provided, if any, has been shown on this survey. No representation is made as to the accuracy, currency or completeness of said information. Visible at grade utilities have been located hereon; line locate services provided by Diamondback Line Locating Services, LLC.
- FEDERAL EMERGENCY MANAGEMENT AGENCY, FEMA FIRMeite published April 12, 2023, referencing Flood Insurance Rate Map, Map Number 5305300341E, with an effective date of March 7, 2023, indicates this survey area is located in Zone X (Area of minimal flood hazard).
- This survey does not constitute a title search to determine ownership or easements of record. For all information regarding easements, rights of way and title of record, the surveyor relied upon Service Reports, prepared by First Corporate Solutions, order numbers ORD-1574685-WBL4D1 (A) and ORD-1574711-R4Y3N2 (B), with effective index dates of March 7, 2023 and March 13, 2023, respectively.
- BENCHMARK: MAG nail & washer stamped "APEX LS18902" in sidewalk, as shown. Elevation: 447.12' (NAVD 88).
- BASIS OF BEARINGS: Bearings are relative to NAD83, Washington State Plane Coordinate System, South Zone (4602).
- Field work for this survey was completed on April 5, 2023.
- The owner names and tax parcel data shown hereon are based upon the public records available at the original date of this survey. Current ownership and tax parcel data should be verified for accuracy. Owner information for adjacent parcels is from a third party source due to no available information from the County Assessor.
- This site is zoned "UCX" (Urban Center Mixed Use) per City of Puyallup Planning Department.  
 Building Setbacks:  
 Front: 20 feet, Interior Side: 6 feet, Street Side: 20 feet, Rear: 10 feet  
 No zoning information provided by the client. Any zoning setbacks shown hereon are the interpretation of the surveyor. For clarification of exact zoning designations and setback locations, please, contact the City of Puyallup Planning and Zoning Department at (253) 841-5480.

**AREAS OF CONCERN:**

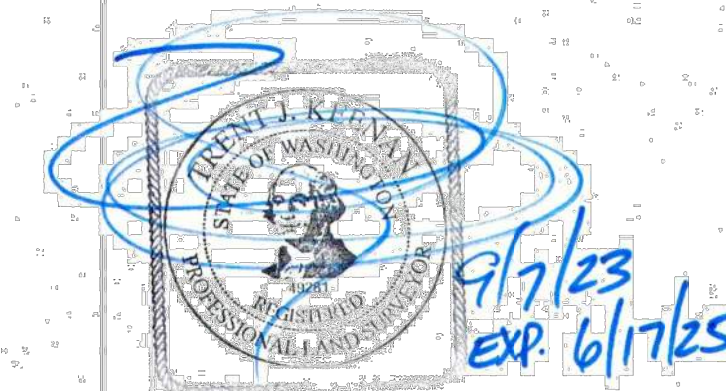
No apparent areas of concern.

**SURVEYOR'S STATEMENT:**

On the basis of my knowledge, information and belief, I hereby state and declare that this drawing was prepared under my direct supervision to the standard of care of surveyors practicing in the State of Washington and that the information shown hereon is true and correct to the best of my knowledge and belief.

This statement is neither a warranty nor a guarantee, either expressed or implied.

Trent J. Keenan  
 Washington Professional Land Surveyor No. 149281



No.	Description	By	Date
2	Adjusted boundary, and easements	HUC	9-7-2023
1	Added electric line.	HUC	6-29-2023

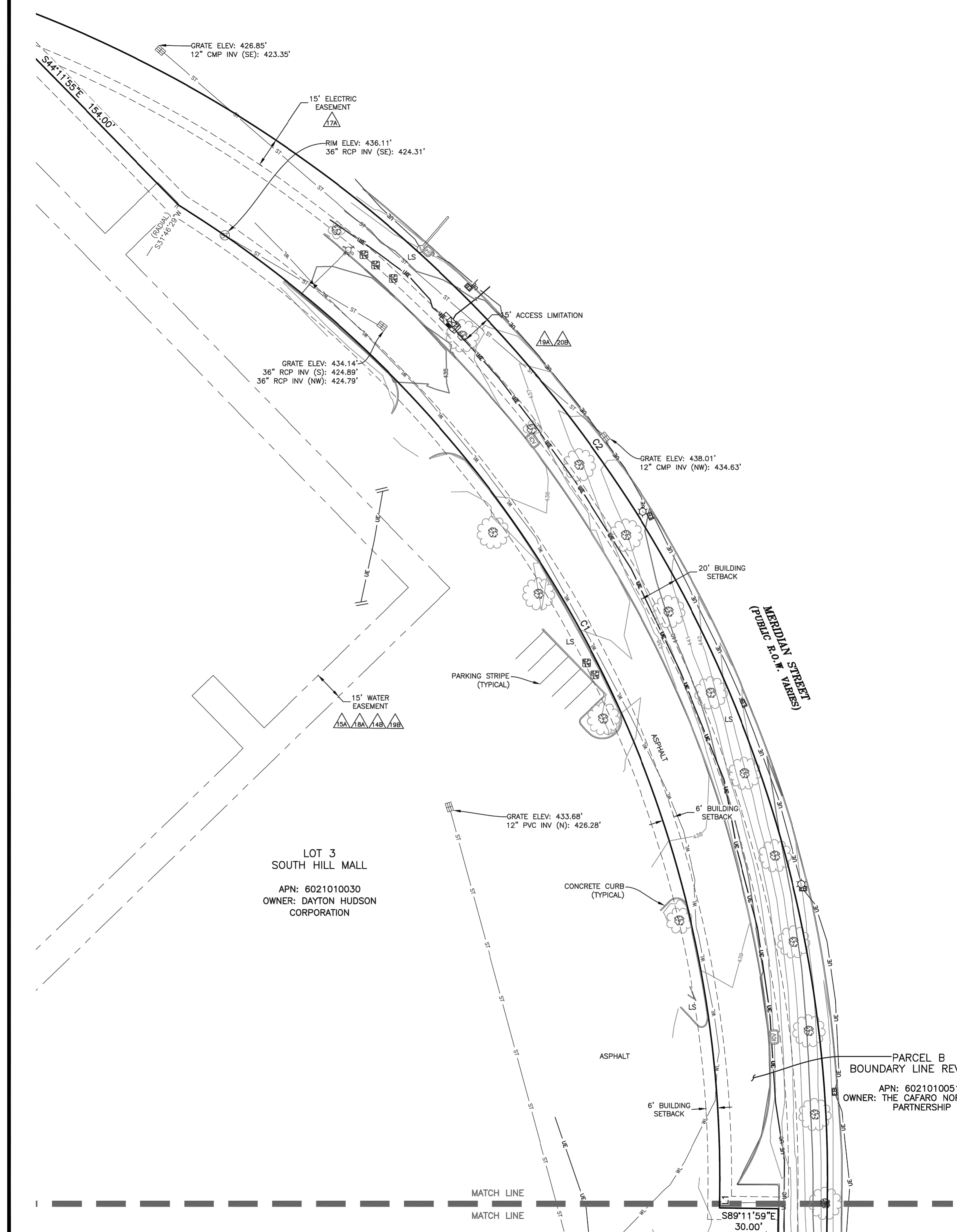
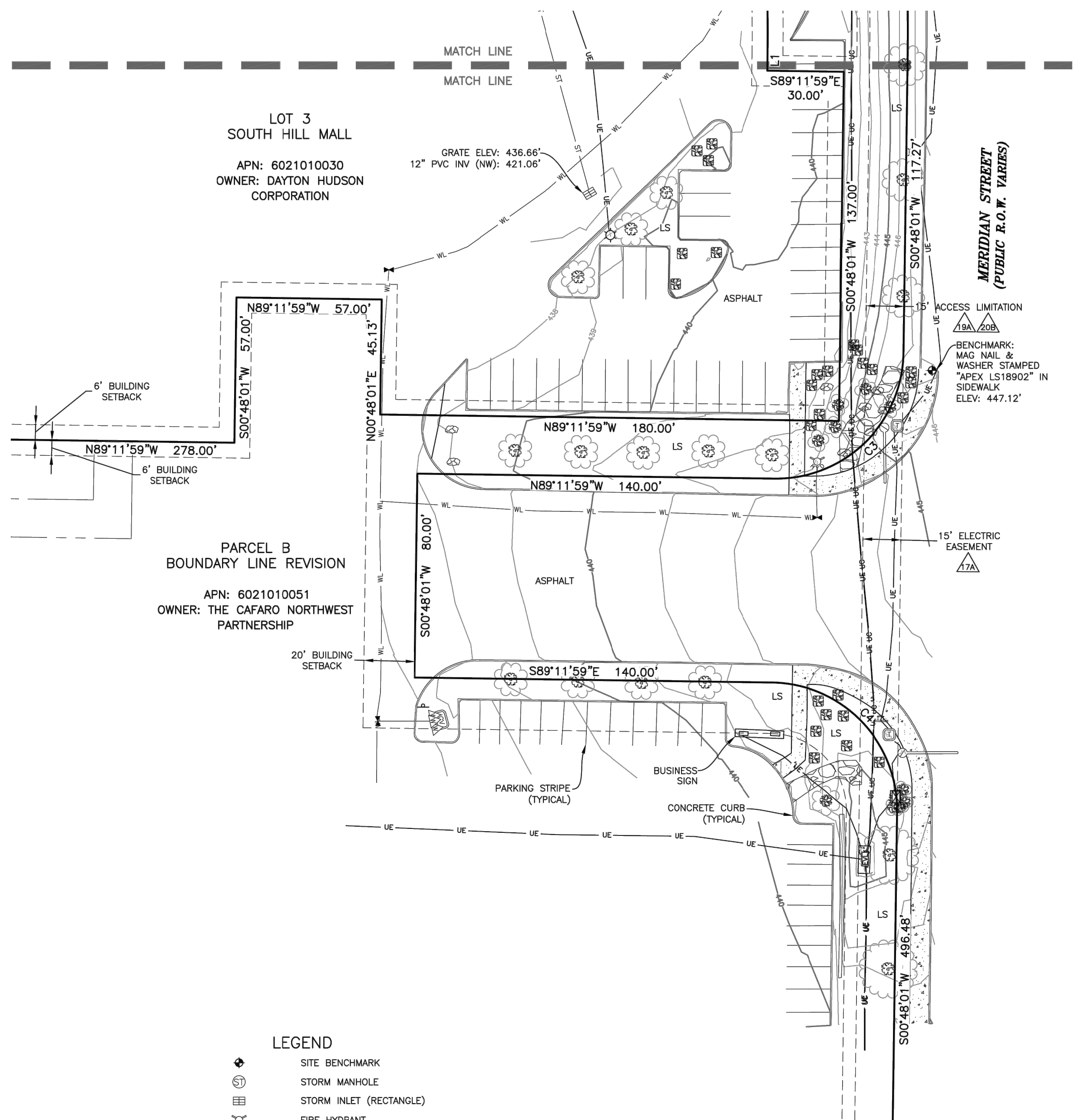
**SITE NAME:**  
 Puyallup, WA - S Meridian

**ENGINEERING DESIGN SURVEY**  
 A PORTION OF THE SE1/4 OF SECTION 4,  
 TOWNSHIP 19 NORTH, RANGE 4 EAST, WILLAMETTE MERIDIAN,  
 CITY OF PUYALLUP, PIERCE COUNTY, STATE OF WASHINGTON  
 Project No. 230616  
 Drawn By: NRS  
 Checked By: TLK  
 Date: 4/21/2023  
 Sheet 1 of 2

No.	Revisions Description	By	Date
2	Adjusted boundary, and easements	HJC	9-7-2023
1	Added electric line.	HJC	6-29-2023

**SITE NAME:**  
Puyallup, WA - S Meridian

**ENGINEERING DESIGN SURVEY**  
A PORTION OF THE SE 1/4 OF SECTION 4,  
TOWNSHIP 19 NORTH, RANGE 4 EAST, WILLAMETTE MERIDIAN.  
CITY OF PUYALLUP, PIERCE COUNTY, STATE OF WASHINGTON.  
Project No. **230616**  
Drawn By: NRS  
Checked By: TJK  
Date: 4/21/2023  
Sheet 2 of 2



- LEGEND**
- ◆ SITE BENCHMARK
  - ⊙ STORM MANHOLE
  - ▭ STORM INLET (RECTANGLE)
  - ⊕ FIRE HYDRANT
  - ⊕ WATER VALVE
  - ⊕ IRRIGATION CONTROL VALVE
  - ⊕ WATER METER
  - ⊕ LIGHT POLE
  - ⊕ ELECTRIC TRANSFORMER
  - ⊕ ELECTRIC BOX
  - ⊕ ELECTRIC CABINET
  - ⊕ ELECTRIC VAULT
  - ⊕ COMMUNICATION BOX
  - ⊕ UNKNOWN TERMINUS
  - ⊕ TRAFFIC SIGNAL CONTROL BOX
  - ⊕ TRAFFIC SIGNAL MAST
  - ⊕ WALK BUTTON PEDESTAL
  - ⊕ CONIFEROUS TREE W/DRIP LINE
  - ⊕ DECIDUOUS TREE W/DRIP LINE
  - ⊕ SHRUB
  - ⊕ BOULDER
  - ⊕ LANDSCAPED AREA
  - ⊕ SIGN
  - ST — STORM LINE (UNDERGROUND)
  - WL — WATER LINE (UNDERGROUND)
  - UE — ELECTRIC LINE (UNDERGROUND)
  - UC — COMMUNICATION LINE (UNDERGROUND)
  - ▭ CONCRETE AREA
  - ▭ RIP-RAP AREA
  - ⊕ EXCEPTION NUMBER

LINE	BEARING	DISTANCE
L1	S00°48'01"W	7.27'

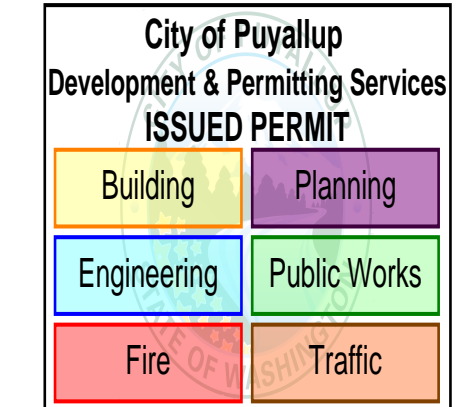
CURVE	RADIUS	ARC LENGTH	DELTA ANGLE
C1	585.19'	602.86'	59°01'32"
C2	640.19'	814.84'	72°55'35"
C3	50.00'	78.54'	90°00'00"
C4	50.00'	78.54'	90°00'00"

City of Puyallup  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

FOR REFERENCE ONLY  
NOT TO SCALE

PRCNC20231632



### V3.5 Supercharger Cabinet Technical Specifications

System	Efficiency	96%
Protection	AC Input side: Class 1	Isolated DC Output
	Over Voltage/Current/Temperature, Surge Protection, Isolation Monitoring	
	Short-Circuit Protection	External Electronic Trip Circuit Breaker
	Short-Circuit Current Rating	85 kA RMS symmetrical
Environmental	Operating Temperature	-30°C to 50°C, -22°F to 122°F
	Ingress Protection	IP66 (Cabinet), IP2X (Cooling)
	Ventilation Requirements	Ventilation Not Required
Noise	Typical noise at 1m	35 dB(A)
Standards	UL 2202, CSA C22.2#107.1, FCC, ICES-003-B, IEC 61851-1, EN 61000-6-2	
	EN 55011, GB/T 18487.1, GB/T 27930, NB/T 33008.1, NB/T 33001	
Layout	Max. Distance to Charge Post	100 m, 340 ft.
Weight	Supercharger Cabinet Weight	4 Post Cabinet: 1110 kg (2448 lbs) 3 Post Cabinet: 1039 kg (2291 lbs)
Dimensions	Depth, Width, Height	1000, 1250, 2200 mm; 39 <sup>12/32</sup> , 49 <sup>9/32</sup> , 86 <sup>20/32</sup> , in.
Mounting	Per-anchor min. Shear Strength	4 kN
	Per-anchor min. Tension Strength	11 kN
DC Post Output (24V)	24V Post Power Supply Conductors	V+, V- (1x/pole): 10 mm <sup>2</sup> , #8 AWG CU Integrated in signal cable bundle

Tesla V3.5 Supercharger Cabinet 2023-05-05 3

### V3.5 Supercharger Cabinet Technical Specifications

AC Input (Electrical)	Input (V <sub>AC</sub> )	480 440 415 400 380
	Power (kVA)	387 354 334 322 306
	AC Input Voltage	380 V <sub>AC</sub> -480 V <sub>AC</sub> (-5%, +10%), 4-wire 3AC+N
	AC Input Current	465 A <sub>AC</sub> Max.
	Frequency	50 Hz /60 Hz
	Power Factor	≥ 0.99
	Current THD	< 3%
	Voltage THD	< 2%
AC Input (Mechanical)	Conductor Sizes	L1, L2, L3, N: 150 - 400 mm <sup>2</sup> , 250 - 750 MCM PE: 10 - 70 mm <sup>2</sup> , #8 AWG - 2/0
	Conductor Material Type	L1, L2, L3, N: Cu, Al PE: Cu/Al
	Mfr. Termination Temp. Rating	90°C
Shared DC Bus (Electrical)	Max Rated DC Bus Power	Power (kW) 575
	Max Rated DC Bus Current	Current (A <sub>DC</sub> ) 640
	DC Bus Voltage Range	880 - 1000 V <sub>DC</sub>
Shared DC Bus (Mechanical)	Conductor Sizes	V+, V- (2x/pole): 150 - 300 mm <sup>2</sup> , 250 - 600 MCM Mid: 16 - 150 mm <sup>2</sup> , 6AWG - 250 MCM PE: 10 - 70 mm <sup>2</sup> , #8 AWG - 2/0
	Conductor Material Type	V+, V-, Mid: Cu, Al PE: Cu/Al
	Conductor Voltage Rating	1000 V
DC Post Output (Electrical)	Mfr. Termination Temp. Rating	90°C
	Max. Rated Post Power	250 kW
	Post Rated Voltage Range	0-500 V <sub>DC</sub>
	Post Rated Current @T <sub>a</sub> =35°C	NACS: 350 A <sub>DC</sub> , CCS2 & GB Handle: 450A <sub>DC</sub>
DC Post Output (Mechanical)	Number of Charge Posts	1-4
	Max Voltage Drop	10 V <sub>DC</sub>
DC Post Output (Mechanical)	Conductor Size	V+, V- (2x/pole): 600 MCM or 300 mm <sup>2</sup> AL (certified equipment wiring) PE: 10 - 70 mm <sup>2</sup> , #8 AWG - 2/0
	Conductor Material Type	V+, V-, Al, Cu PE: Cu/Al
	Conductor Voltage Rating	1000 V
	Mfr. Termination Temp Rating	90°C

Tesla V3.5 Supercharger Cabinet 2023-05-05 2

### V4 Supercharger Post Technical Specifications

Product	Part Number	1732843	
	Model Number	CS-615-A2 (NACS/CCS1), CS-615-E2 (CCS2)	
	Certified Maximum Power with V3 Cabinet	250kW	
	Certified Voltage Range with V3 Cabinet	0-500VDC	
	Certified Continuous Current with V3 Cabinet	615A	
	Protection	Over Current, Over Temperature	
	Compliance	UL 2202, CSA 22.2#107.1, IEC 61851-1, IEC 61851-2	
	Protocol Support	ISO 15118-2/3/4/5, ISO 15118-20*, DIN 70121 OCPP 2.0.1, OCPP 2.2.1	
	Environmental	Operating Temperature	-30°C to 50°C
		Ingress Protection	IP54 / NEMA 3R
Flood Tolerance		1015 mm	
Maximum Noise Level @ 1m		60 dBA below 40°C, 65 dBA above 40°C	
Mechanical	Total Weight	90 kg	
	Dimensions	334 x 891 x 1946 mm	
	Charging Cable Length	3 m	
Site Layout and Installation	Input Lug: V+, V- (2/pole)	Cu/Al, 150 mm <sup>2</sup> - 380 mm <sup>2</sup> (300MCM - 750MCM)	
	PE Lug (2)	Cu/Al, 16 mm <sup>2</sup> - 95 mm <sup>2</sup> (6AWG - 250MCM)	
	24V Power Input: V+, V- (1/pole)	Cu, 10 mm <sup>2</sup> (8 AWG)	
	Termination Temperature	90°C	
Max Distance From Cabinet	100 m		
*Hardware capability only			

Tesla V4 Supercharger Post The specifications within this datasheet are subject to change by Tesla 2

REV.	DATE	DESCRIPTION
A	08/11/2023	ISSUED FOR 50% REVIEW
B	09/11/2023	ISSUED FOR 50% REVIEW
C	09/13/2023	ISSUED FOR 90% REVIEW
D	10/00/2023	ISSUED FOR SIGN & SEAL
E	01/19/2024	ISSUED FOR SIGN & SEAL - UTILITY UPDATES
0	04/26/2024	ADDRESSED COMMENTS PER CITY OF PUYALLUP
1	10/10/2024	ADDRESSED ILL COMMENTS

PRCNC20231632  
 PRCNC20231632

FOR REFERENCE ONLY

TESLA SUPERCHARGER STATION  
 3310 S MERIDIAN ST. (TESLA SUPERCHARGER)  
 PUYALLUP, WA 98373

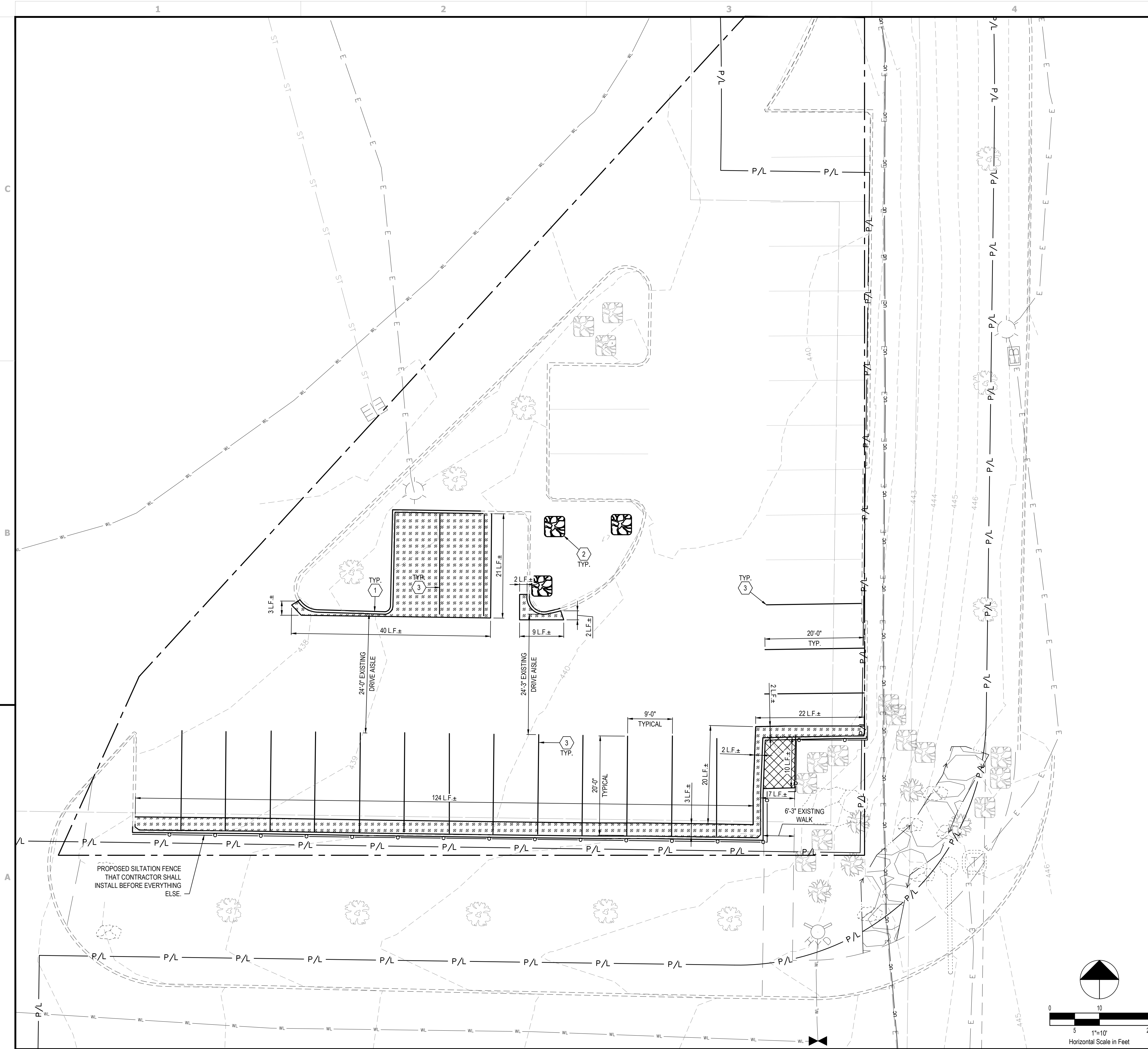
TESLA DATASHEET

PROJECT MANAGER	DESIGNER
IM	CPC

JOB NO.  
2023241.47

C-002





**GENERAL SHEET NOTES**

- EXISTING PROPERTY LINES, RIGHT-OF-WAY BOUNDARIES, EASEMENT BOUNDARIES, SETBACKS, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY.
- WHEN REQUIRED, CONTRACTOR SHALL REMOVE EXISTING PAVEMENT AND/OR CURB USING CLEAN SAWCUTS TO INSTALL PROPOSED UNDERGROUND CONDUITS OR PAVEMENT MODIFICATIONS AND REPLACE PAVEMENT AND/OR CURB AFTER CONDUITS AND/OR MODIFICATIONS HAVE BEEN INSTALLED. SEE ELECTRICAL SHEETS FOR CONDUIT ROUTING, APPROXIMATE CONDUIT RUN LENGTHS AND TRENCH DETAIL. CONTRACTOR SHALL MEET OR EXCEED EXISTING PAVEMENT SPECIFICATIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.
- CONTRACTOR SHALL DE-LIMB EXISTING TREES AS NECESSARY TO MAINTAIN NEC CLEARANCES, EQUIPMENT MANUFACTURER CLEARANCES, AND UTILITY REQUIRED CLEARANCES. CONTRACTOR SHALL MAKE TREE SHAPELY AND TYPICAL OF SPECIES PER ANSI A300 AND HORTICULTURAL STANDARDS.

**PLAN KEYNOTES**

- EXISTING CURB TO BE REMOVED.
- EXISTING LANDSCAPING TO BE REMOVED (SHRUB, PERENNIALS, GROUNDCOVER, ETC). CONTRACTOR SHALL VERIFY EXACT SIZE AND TYPE IN FIELD.
- EXISTING PAVEMENT MARKINGS TO BE REMOVED. CONTRACTOR SHALL REMOVE MARKINGS WITH SMALL HANDHELD GRINDERS, SCARIFIERS, BEAD BLASTING, SAND BLASTING, WATER BLASTING OR OTHER METHODS, WITH THE APPROVAL OF THE ENGINEER OF RECORD. TAKE CARE DURING MARKING REMOVAL TO NOT SCAR, DISCOLOR, OR OTHERWISE DAMAGE THE PAVEMENT SURFACE. DO NOT OVER PAINT OR USE OTHER METHODS OF COVERING MARKINGS IN LIEU OF REMOVAL. WATER BLASTING METHOD SHALL NOT BE USED DURING FREEZING WEATHER CONDITIONS.

City of Puyallup  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

REV.	DATE	DESCRIPTION
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PRCNC20231632  
 PRCNC20231632

LEONARDO A. SFERA  
 55712  
 REGISTERED PROFESSIONAL ENGINEER  
 10/10/24  
 EXPIRES 04/16/2026

**LEGEND**  
 (SEE SHEET C-003 FOR EXISTING LEGEND)

	SILTING FENCE PER CITY OF PUYALLUP STANDARDS AND REQUIREMENTS. SEE SHEET C-204.
	EXISTING ASPHALT TO BE REMOVED. TRENCHING NOT INCLUDED.
	EXISTING CONCRETE TO BE REMOVED TO THE NEAREST JOINT. TRENCHING NOT INCLUDED.
	# L.F.± DENOTES LIMITS OF PAVEMENT DISTURBANCE IN LINEAR FOOT (L.F.)
	PROPOSED CONSTRUCTION STAGING/FENCED AREA

**TESLA SUPERCHARGER STATION**  
 3310 S MERIDIAN ST. (TESLA SUPERCHARGER)  
 PUYALLUP, WA 98373

**EXISTING CONDITIONS AND DEMOLITION PLAN**

PROJECT MANAGER	DESIGNER
IM	CPC

JOB NO.  
 2023241.47

**C-101**

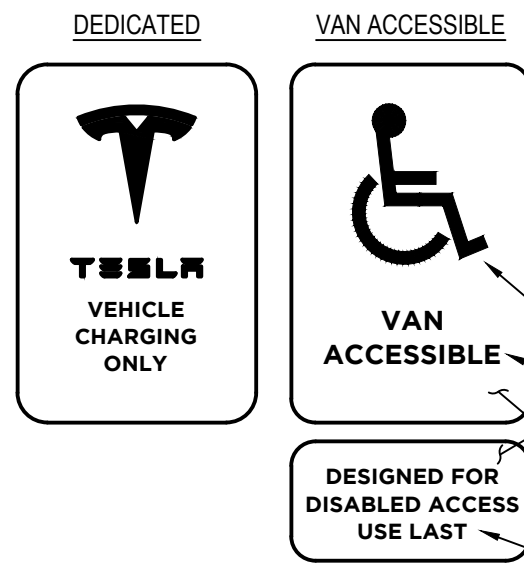
3500 DEER CREEK RD.  
 PALO ALTO, CA 94304  
 (650) 681-5000

520 South Main Street, Suite 2531  
 Akron, OH 44311  
 330.572.2100 Fax 330.572.2101

**SUPERCHARGER POST SCHEDULE**

CABINET	POST	SIGN TYPE
1	1A	DEDICATED PARKING, VAN ACCESSIBLE
	1B	DEDICATED PARKING
	1C	DEDICATED PARKING
2	2A	DEDICATED PARKING
	2B	DEDICATED PARKING
	2C	DEDICATED PARKING
3	3A	DEDICATED PARKING
	3B	DEDICATED PARKING
	3C	DEDICATED PARKING

**SIGNAGE**



**PARKING STALL ANALYSIS**

EXISTING STALLS UTILIZED AS A RESULT OF THIS PROJECT	20
PROPOSED DCFC TESLA STALLS	12
PROPOSED NON-EV STALLS	3
NET STALL COUNT	-5

WHITE SYMBOL  
WHITE TEXT  
SOLID FEDERAL BLUE #15090 IN FED STANDARD 595C BACKGROUND PAINT. SIGNS SHALL BE REFLECTORIZED.  
WHITE TEXT

**PLANT SCHEDULE**

SYMBOL	BOTANICAL NAME	COMMON NAME	QTY.	MIN. SIZE	CONDITION
⊗	Thuja occidentalis 'Emerald Green'	Emerald Green Arborvitae	9	6'-0" H	B&B

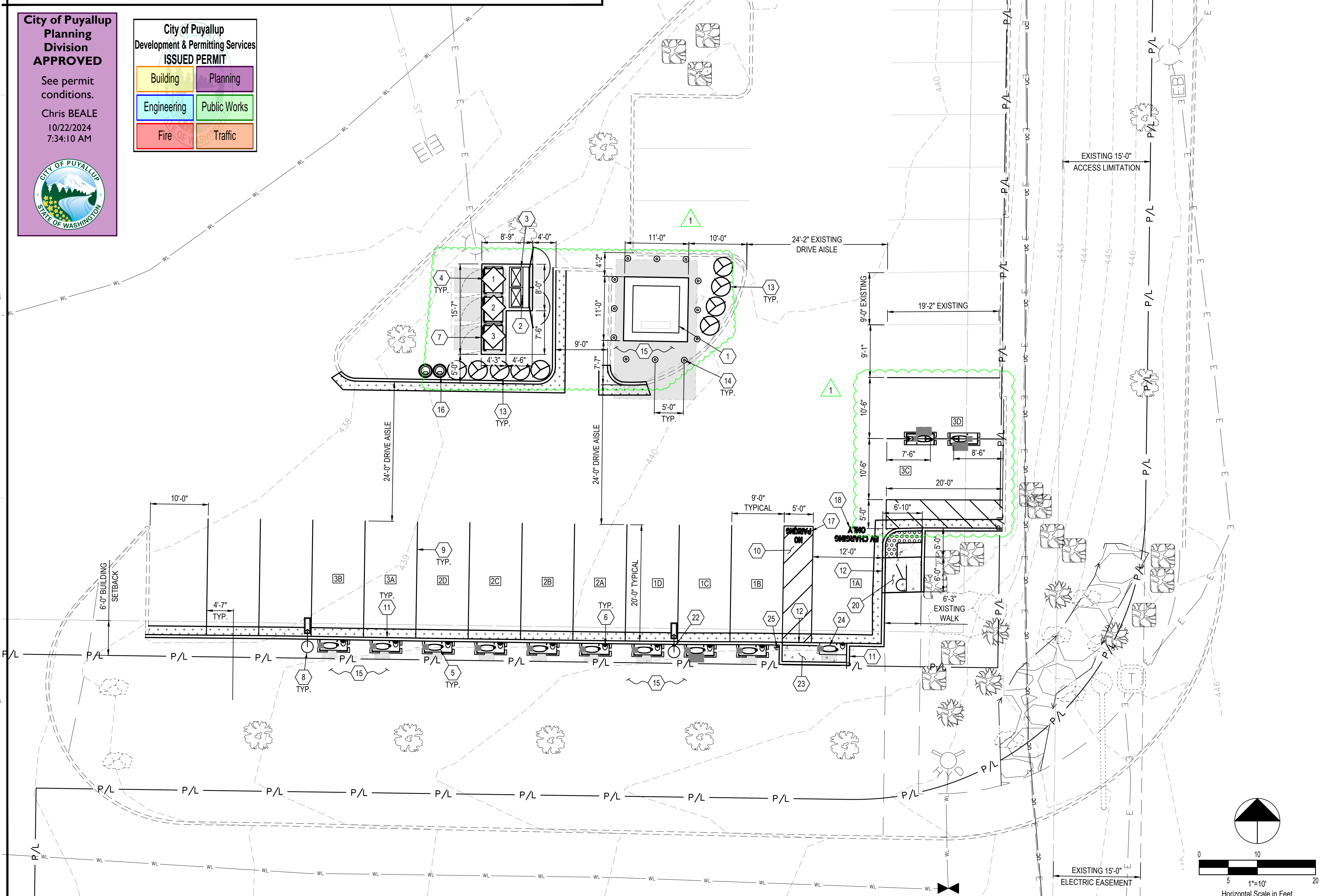
**City of Puyallup Planning Division APPROVED**

See permit conditions.  
Chris BEALE  
10/22/2024  
7:34:10 AM



**City of Puyallup Development & Permitting Services ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic



**GENERAL SHEET NOTES**

- EXISTING PROPERTY LINES, RIGHT-OF-WAY BOUNDARIES, EASEMENT BOUNDARIES, SETBACKS, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY.
- CONTRACTOR SHALL REMOVE EXISTING PAVEMENT AND/OR CURB USING CLEAN SAWCUTS TO INSTALL PROPOSED UNDERGROUND CONDUITS AND REPLACE PAVEMENT AND/OR CURB AFTER CONDUITS HAVE BEEN INSTALLED. SEE ELECTRICAL SHEETS FOR CONDUIT ROUTING, APPROXIMATE CONDUIT RUN LENGTHS AND TRENCH DETAIL. CONTRACTOR SHALL MEET OR EXCEED EXISTING PAVEMENT SPECIFICATIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.
- APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING, INCLUDING SAW CUT JOINTS.
- CONTRACTOR SHALL VERIFY ALL EXISTING SLOPES AND GRADES PRIOR TO CONSTRUCTION. FINAL GRADES SHALL BE DETERMINED IN FIELD BY THE CONTRACTOR AND APPROVED BY THE CONSTRUCTION MANAGER.
- THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TOWARDS THE NEAREST EXISTING DRAINAGE STRUCTURE AND ENSURE NO PONDING OCCURS ON SITE.
- CONTRACTOR SHALL ENSURE SLOPES OF PARKING STALL 1A AND ADJACENT TRANSVERSE STRIPED AREA(S) ARE COMPLIANT WITH NATIONAL ADA STANDARDS. NO SLOPE SHALL EXCEED 2% IN ANY DIRECTION WITHIN PARKING STALL 1A AND ADJACENT TRANSVERSE STRIPED AREA(S). CONTRACTOR SHALL REMOVE AND REGRADE AREA(S) AS REQUIRED TO ACHIEVE NECESSARY SLOPES. CONTRACTOR SHALL INSTALL FINAL PAVEMENT MARKINGS IN ACCORDANCE WITH THE CURRENT AHJ'S REGULATIONS.

**PLAN KEYNOTES**

- PROPOSED PAD MOUNTED ELECTRICAL UTILITY TRANSFORMER (BY UTILITY). CONTRACTOR SHALL PROVIDE CONCRETE PAD AND VAULT PER UTILITY SPECIFICATIONS. COORDINATE FINAL LOCATION WITH UTILITY. SEE ELECTRICAL PLANS FOR PROPOSED ROUTING.
- PROPOSED UTILITY METER MOUNTED IN SWITCHGEAR PER ELECTRIC COMPANY SPECIFICATIONS AND DETAILS ON ELECTRICAL SHEETS.
- PROPOSED SWITCHGEAR ASSEMBLY WITH INTEGRATED TESLA SITE CONTROLLER AND PRIMARY BROADCAST UNIT PER ELECTRICAL DRAWINGS. SEE CIVIL DETAILS FOR ANCHORAGE.
- PROPOSED TESLA SUPERCHARGER CABINET (TYPICAL OF 3). SEE CIVIL DETAILS.
- PROPOSED TESLA SUPERCHARGER POST WITH INDIVIDUAL PRECAST CONCRETE FOUNDATION AND ATTACHED DETERRENT BOLLARD (TYPICAL OF 11). SEE CIVIL DETAILS.
- PROPOSED NON-ILLUMINATED PARKING SIGN (TYPICAL OF 12). SEE CIVIL DETAILS. SEE SUPERCHARGER POST SCHEDULE, THIS SHEET. MOUNT SIGN POST IN BOLLARD AS NOTED.
- PROPOSED CONCRETE EQUIPMENT PAD. SEE CIVIL DETAILS.
- PROPOSED LIGHT POLE (TOTAL OF 2), SEE CIVIL DETAILS. SEE ELECTRICAL DRAWINGS FOR POLE AND FIXTURE SPECIFICATIONS AND WIRING.
- PROPOSED PAINTED 4" WIDE SOLID STRIPE TO MATCH EXISTING STRIPING IN COLOR. SEE PAVEMENT MARKING NOTES ON SHEET C-003.
- PROPOSED PAINTED 4" WIDE TRANSVERSE STRIPING TO MATCH EXISTING STRIPING IN COLOR. STRIPING SHALL BE 3'-0" O.C. SEE PAVEMENT MARKING NOTES ON SHEET C-003 AND CIVIL DETAILS.
- PROPOSED CONCRETE CURB TO MATCH EXISTING. SEE CIVIL DETAILS.
- PROPOSED FLUSH CONCRETE CURB. SEE CIVIL DETAILS.
- PROPOSED SCREENING SHRUB. SEE PLANT SCHEDULE THIS PAGE, LANDSCAPE NOTES ON C-003 AND DETAIL ON C-203.
- PROPOSED DETERRENT BOLLARD PER UTILITY SPECIFICATION (TYPICAL OF 5)
- ALL DISTURBED AREAS NOT TO BE PAVED SHALL BE RETURNED TO MATCH EXISTING GROUND CONDITIONS UNLESS OTHERWISE NOTED. FINAL MATERIAL SHALL BE COORDINATED WITH TESLA.
- PROPOSED TRASH CAN AND RECYCLING BIN (TYPICAL OF 1 EACH). SEE CIVIL DETAILS.
- PROPOSED "NO PARKING" IN WHITE LETTERS, 12 INCHES. SEE PAVEMENT MARKING NOTES ON SHEET C-003.
- PROPOSED "EV CHARGING ONLY" IN WHITE LETTERS, 12 INCHES. SEE PAVEMENT MARKING NOTES ON SHEET C-003.
- PROPOSED UTILITY JUNCTION BOX PER UTILITY SPECIFICATION.
- PROPOSED ACCESSIBLE CONCRETE RAMP. SEE CIVIL DETAILS.
- PROPOSED CONCRETE CURB TAPER. SEE CIVIL DETAILS.
- PROPOSED WIRELESS ACCESS POINT (TYPICAL OF 1). MOUNT PER MANUFACTURER'S SPECIFICATIONS AT MINIMUM 10'-0" ABOVE GRADE. WHERE APPLICABLE, CONTRACTOR SHALL MOUNT TO EXISTING LIGHT POLE.
- PROPOSED CONCRETE ACCESSIBLE WALK. SEE CIVIL DETAILS.
- PROPOSED TESLA SUPERCHARGER POST WITH INDIVIDUAL CAST-IN-PLACE CONCRETE FOUNDATION (TYPICAL OF 1). SEE CIVIL DETAILS.
- PROPOSED NO PARKING SIGN ON POST. SEE CIVIL DETAILS.

**LEGEND**

- (SEE SHEET C-003 FOR EXISTING LEGEND)
- PROPOSED EQUIPMENT CLEAR SPACE
  - PROPOSED CONCRETE PAVEMENT TO MATCH EXISTING IN TYPE AND DEPTH. INCLUDE ENGINEERED COMPACTED BACKFILL BELOW PAVEMENT SECTION. TRENCHING NOT INCLUDED. CONTRACTOR SHALL REPLACE ANY FABRIC ENCOUNTERED DURING EXCAVATION INCLUDING BUT NOT LIMITED TO: GEOTEXTILE, WATER-PROOFING, PAVING FABRICS, ETC. THE REPLACEMENT MATERIAL(S) SHALL BE EQUAL TO OR BETTER THAN EXISTING AND SHALL BE CONFIRMED BY THE MANUFACTURER'S REPRESENTATIVE TO BE COMPATIBLE WITH THE EXISTING INSTALLATION.
  - PROPOSED ASPHALT PAVEMENT TO MATCH EXISTING IN TYPE AND DEPTH. INCLUDE ENGINEERED COMPACTED BACKFILL BELOW PAVEMENT SECTION. TRENCHING NOT INCLUDED. FOR FULL DEPTH REPLACEMENT, CONTRACTOR SHALL REPLACE ANY FABRIC ENCOUNTERED DURING EXCAVATION INCLUDING BUT NOT LIMITED TO: GEOTEXTILE, WATER-PROOFING, PAVING FABRICS, ETC. THE REPLACEMENT MATERIAL(S) SHALL BE EQUAL TO OR BETTER THAN EXISTING AND SHALL BE CONFIRMED BY THE MANUFACTURER'S REPRESENTATIVE TO BE COMPATIBLE WITH THE EXISTING INSTALLATION. IN LIEU OF FULL DEPTH REPLACEMENT, CONTRACTOR CAN MILL AND OVERLAY (1.5" MIN) PROPOSED ASPHALT PROVIDED THAT THE FINAL ASPHALT SECTION IS EQUAL TO OR GREATER THAN THE EXISTING SECTION AND DRAINAGE AND ADA COMPLIANCE IS NOT NEGATIVELY AFFECTED.

**TESLA**  
3500 DEER CREEK RD.  
PALO ALTO, CA 94304  
(650) 661-5000

**GPD GROUP**  
Professional Corporation  
520 South Main Street, Suite 2531  
Akron, OH 44311  
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
A	08/11/2023	ISSUED FOR 90% REVIEW
B	09/11/2023	ISSUED FOR 90% REVIEW
C	09/13/2023	ISSUED FOR 90% REVIEW
D	10/30/2023	ISSUED FOR SIGN & SEAL
E	01/19/2024	ISSUED FOR SIGN & SEAL - UTILITY UPDATES
0	04/26/2024	ADDRESSED COMMENTS PER CITY OF PUYALLUP
1	10/10/2024	ADDRESSED LL COMMENTS

PRCNC20231632  
PRCNC20231632

**LEONARDO A. SFERRA**  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
5571  
10/10/24  
EXPIRES 04/16/2026

**TESLA SUPERCHARGER STATION**  
3310 S MERIDIAN ST. (TESLA SUPERCHARGER)  
PUYALLUP, WA 98373

**CIVIL SITE PLAN**

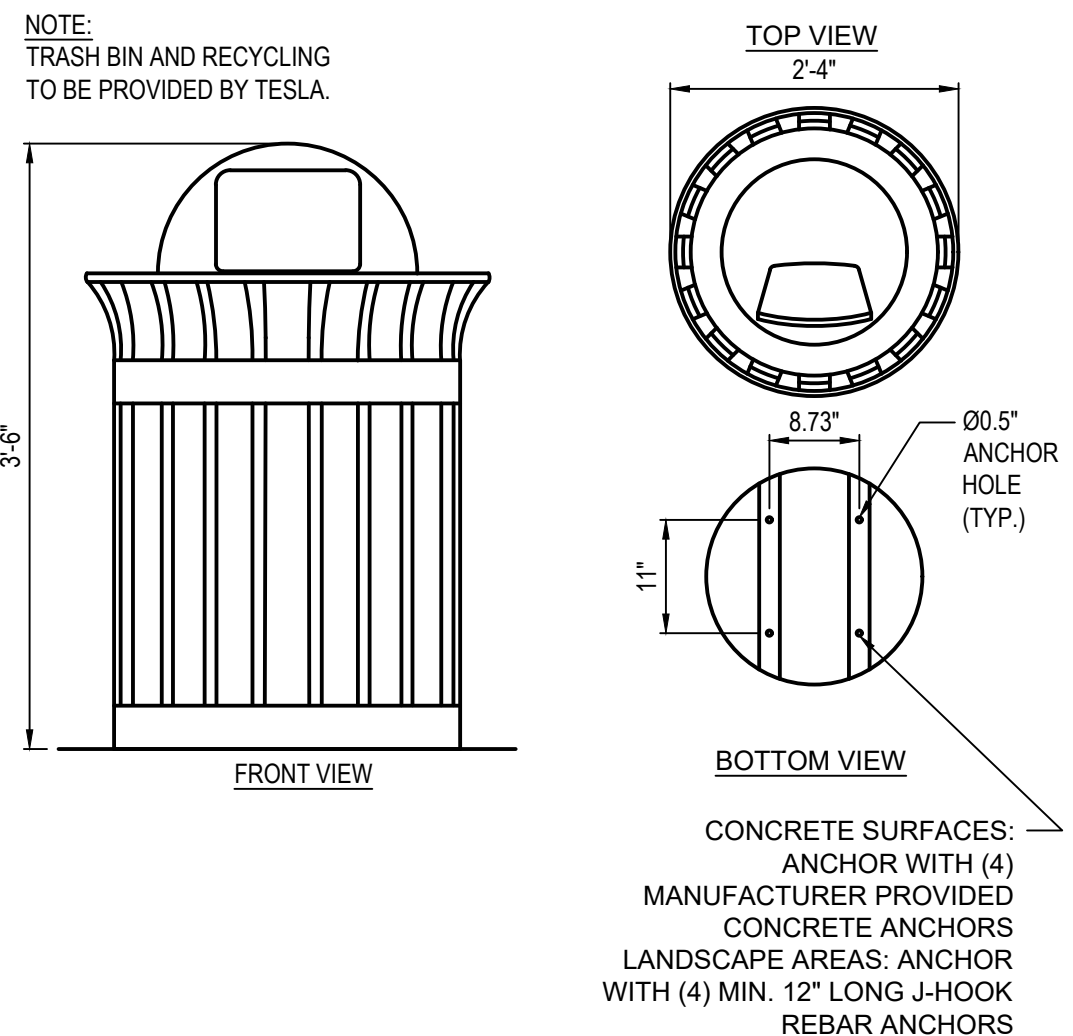
PROJECT MANAGER	DESIGNER
IM	CPC

JOB NO.  
**2023241.47**

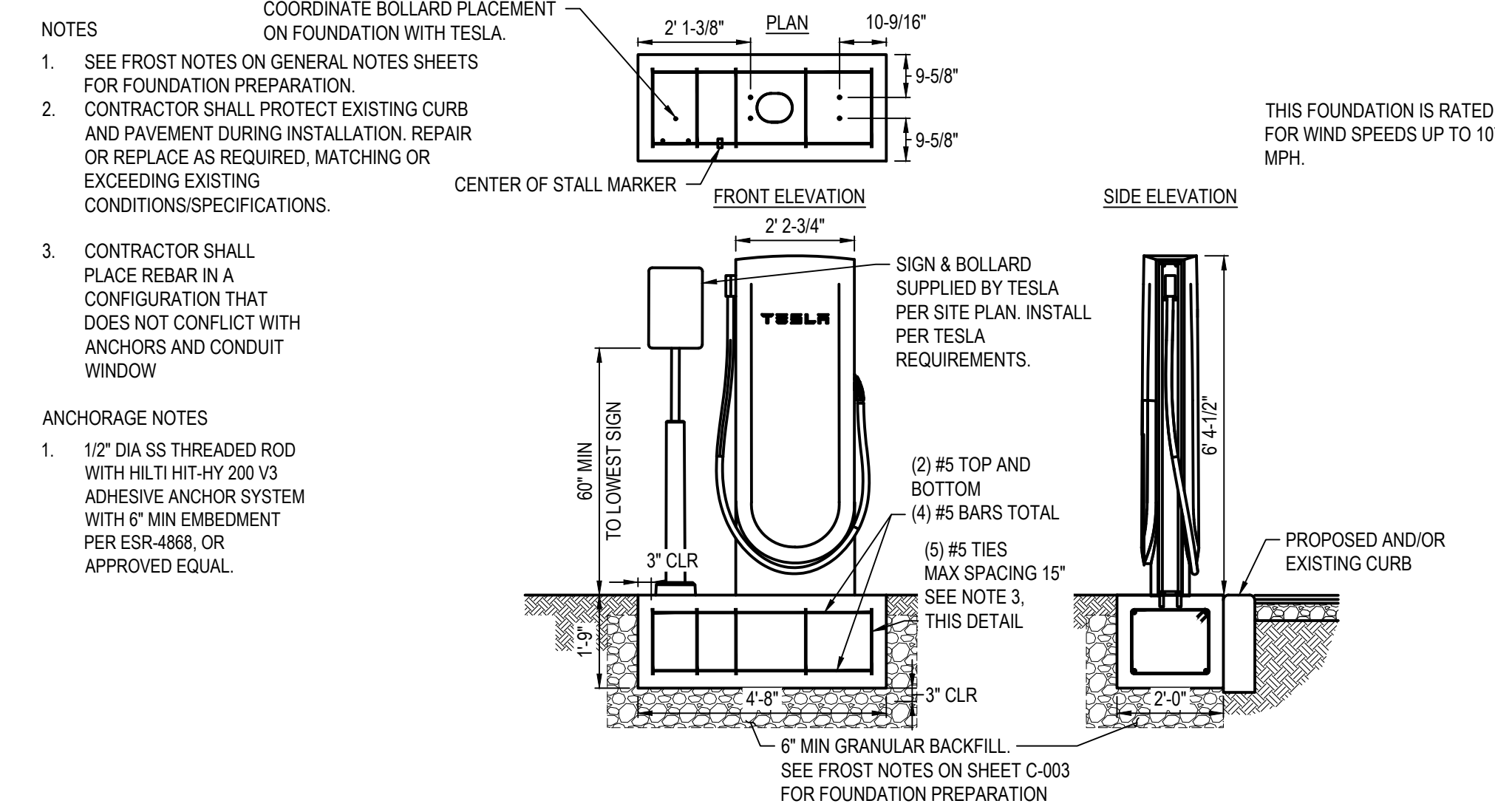
**C-111**

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Created: 10/20/2024 9:24 AM - schbay

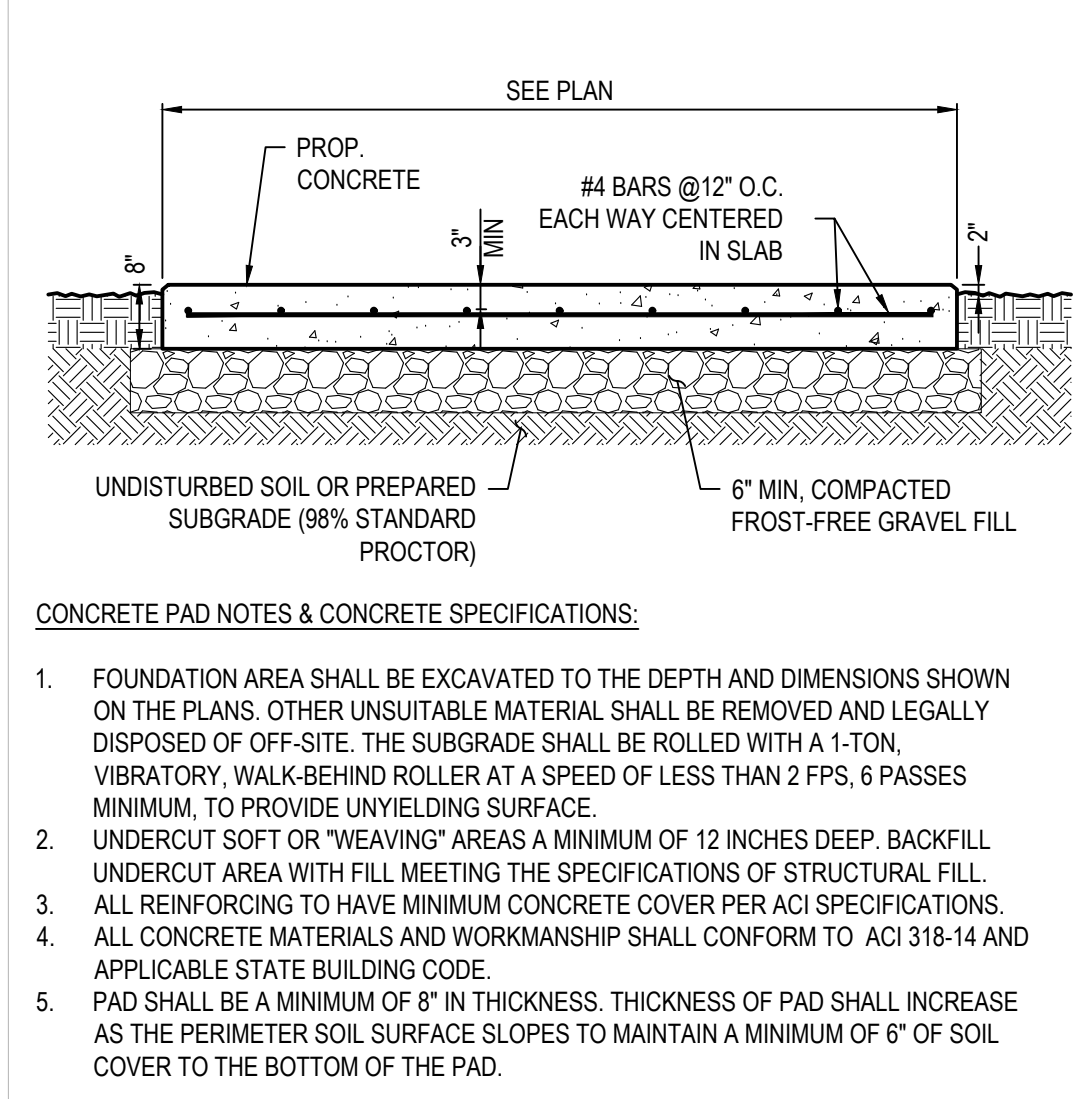
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October 10, 2024 9:24 AM - cddy



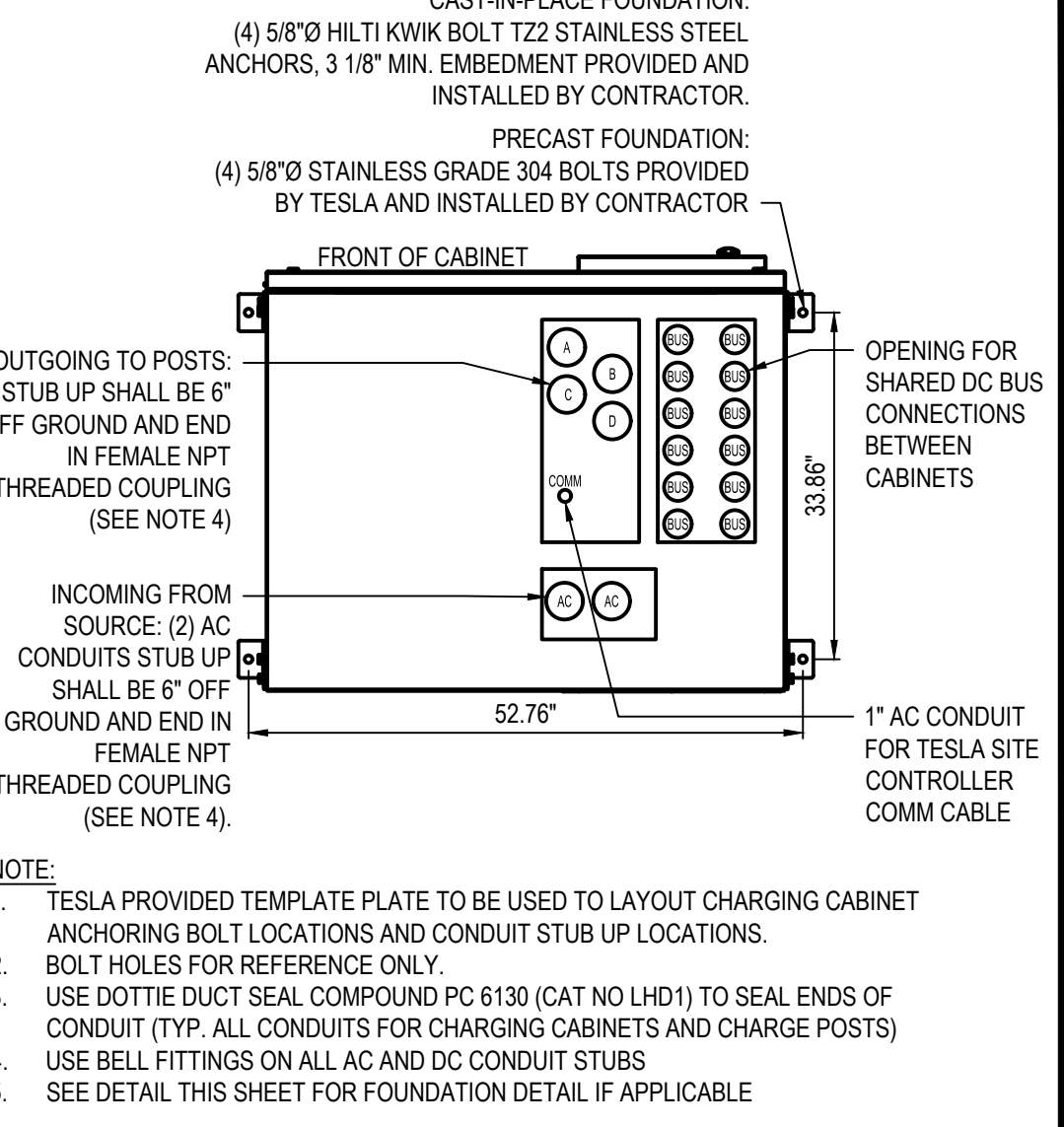
**C-1 TRASH CAN AND RECYCLING BIN**  
N.T.S.



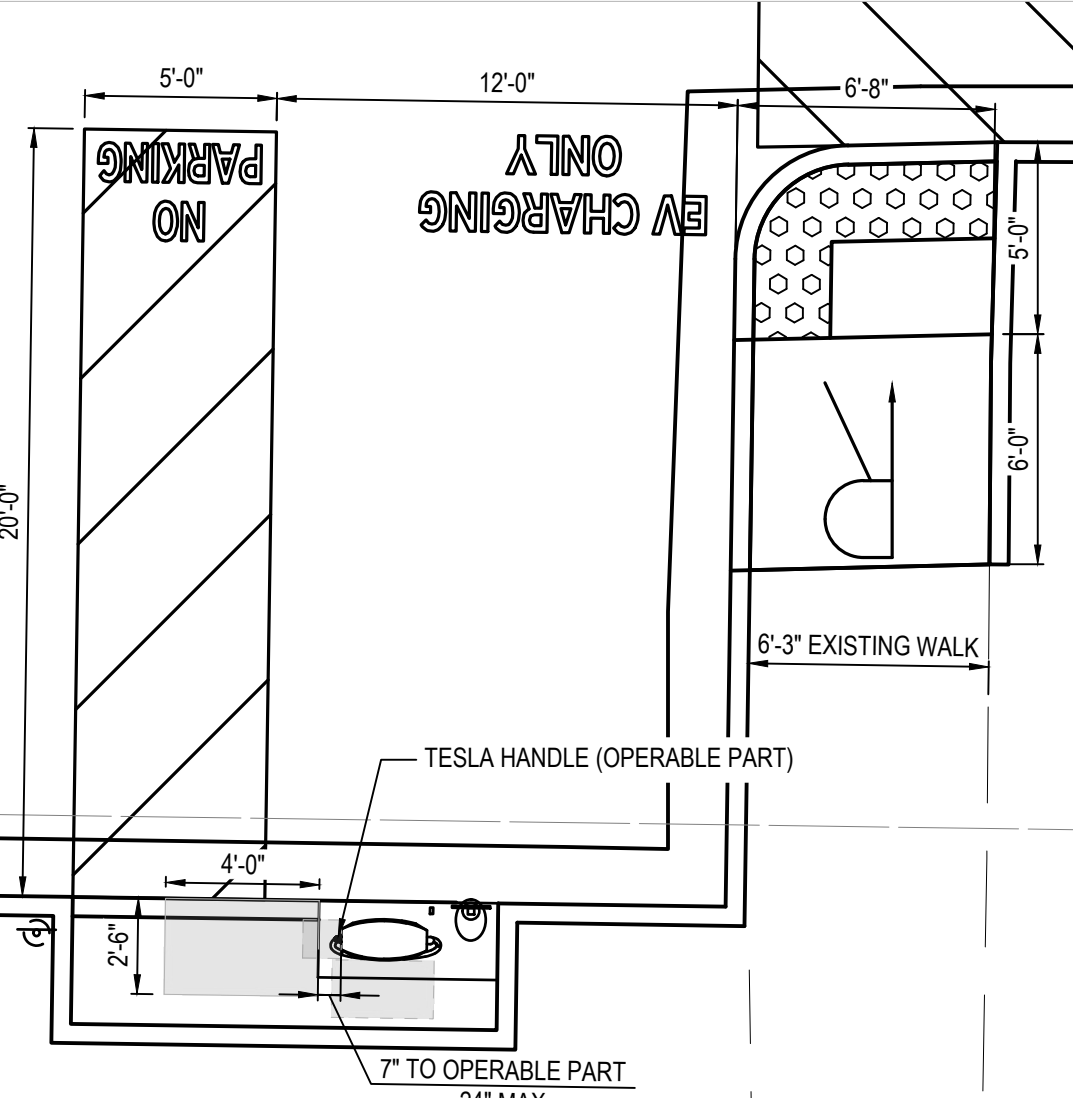
**C-2 TESLA SUPERCHARGER CAST-IN-PLACE FOUNDATION**  
N.T.S.



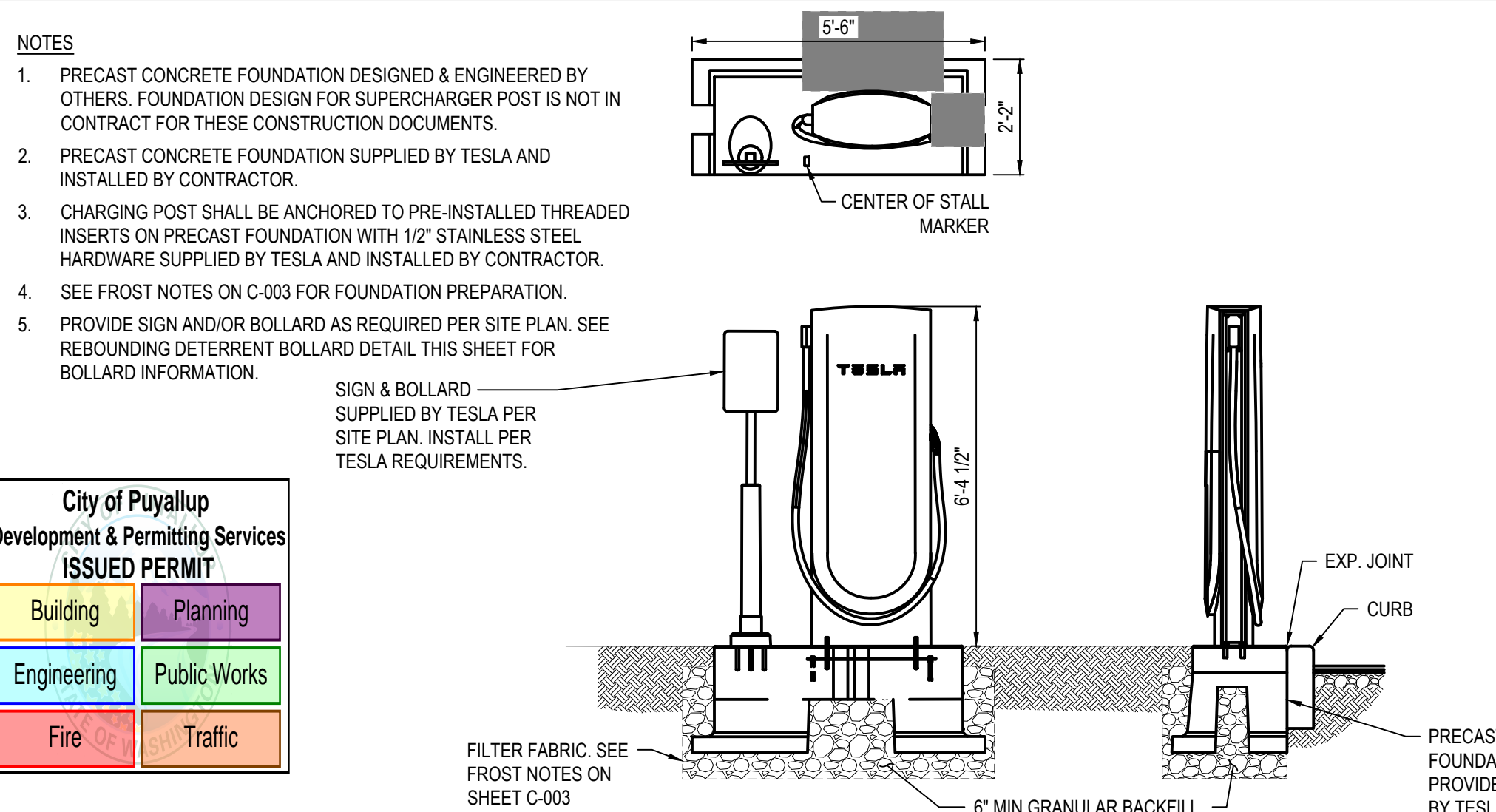
**C-4 EQUIPMENT PAD**  
N.T.S.



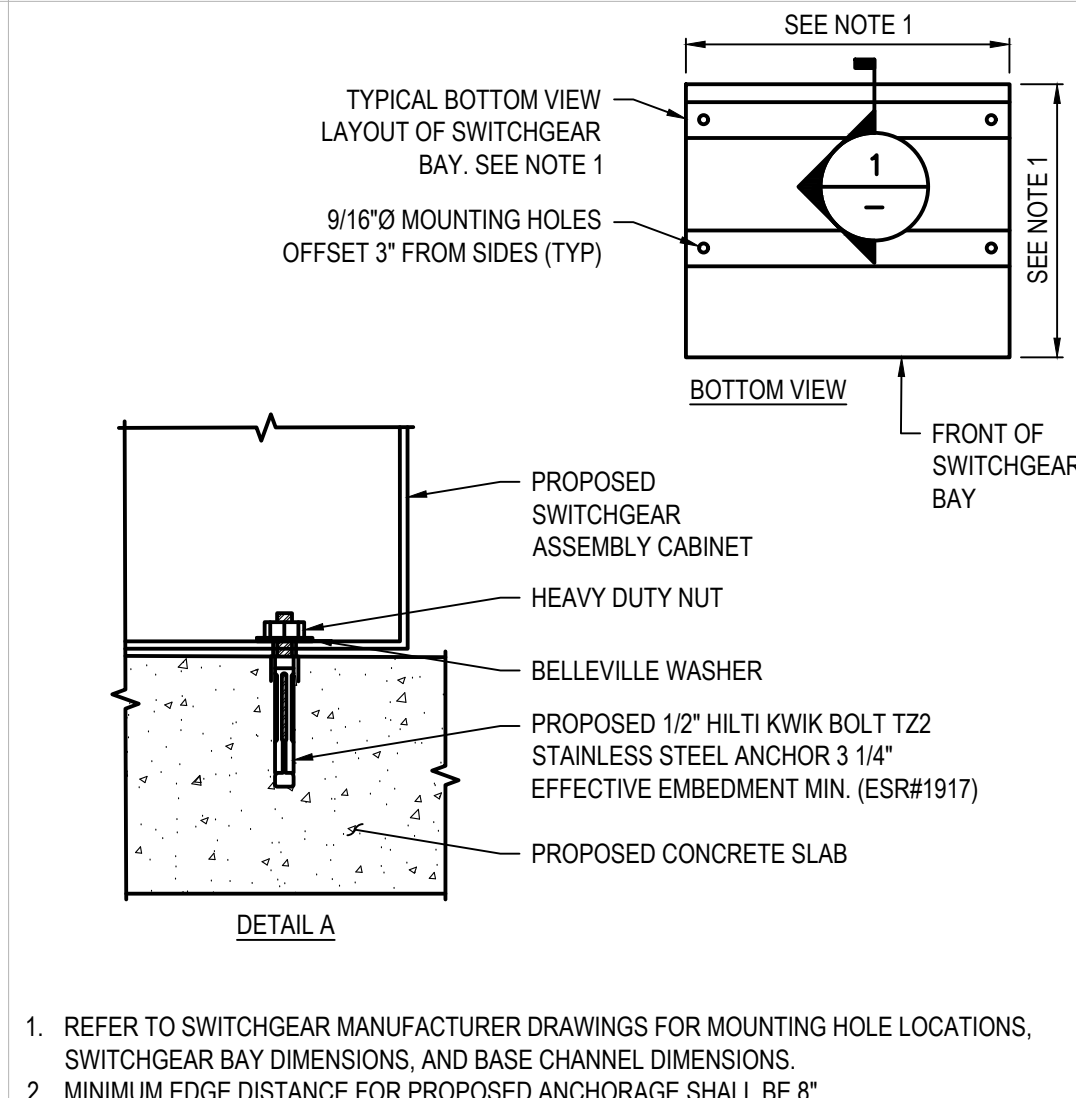
**C-5 TESLA SUPERCHARGER CABINET ANCHOR BOLT PLAN**  
N.T.S.



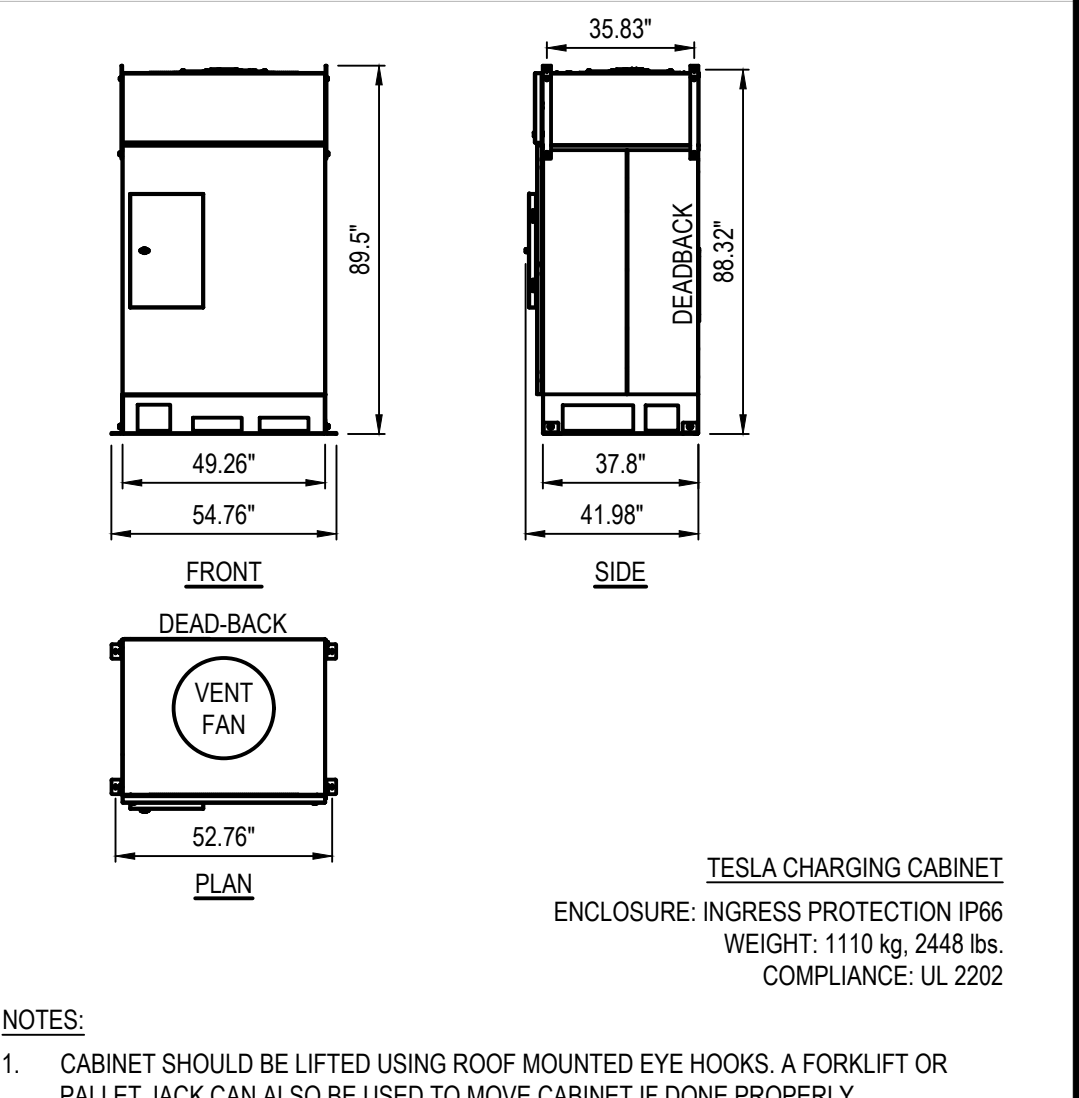
**B-1 ACCESSIBLE REACH PLAN**  
N.T.S.



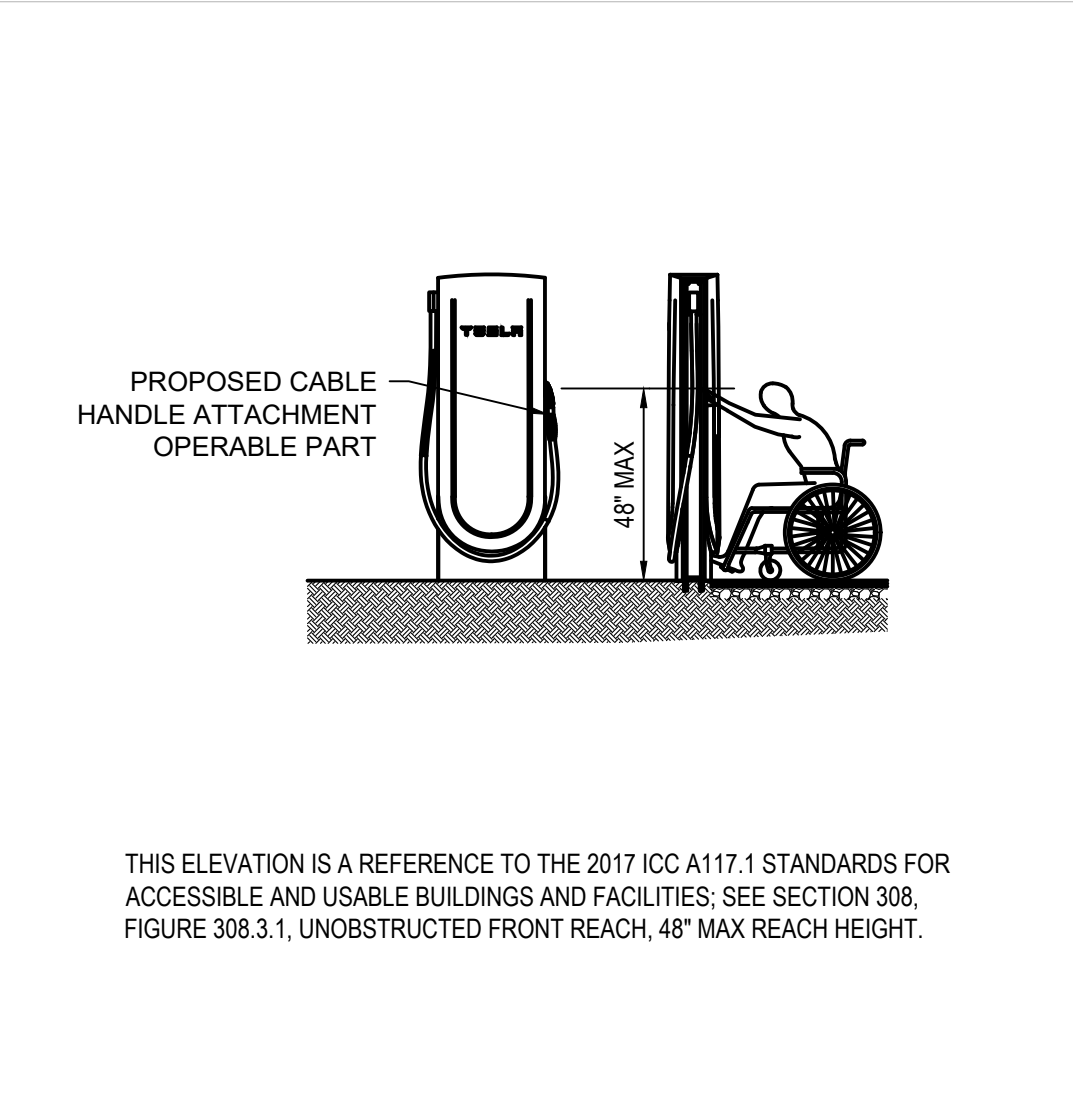
**B-2 TESLA SUPERCHARGER ON PRECAST FOUNDATION**  
N.T.S.



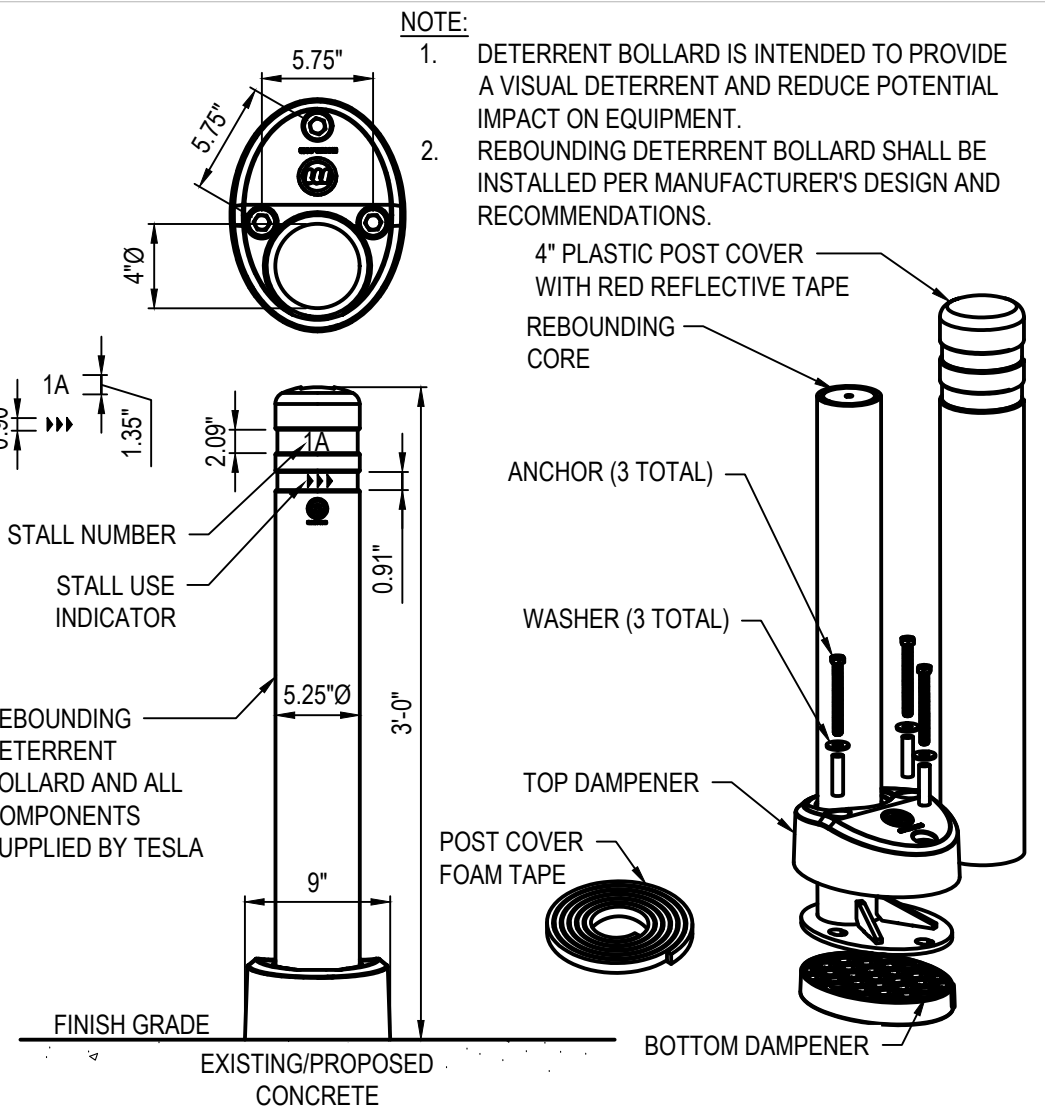
**B-4 MOUNTING FOR Z-POWER SWITCHGEAR**  
N.T.S.



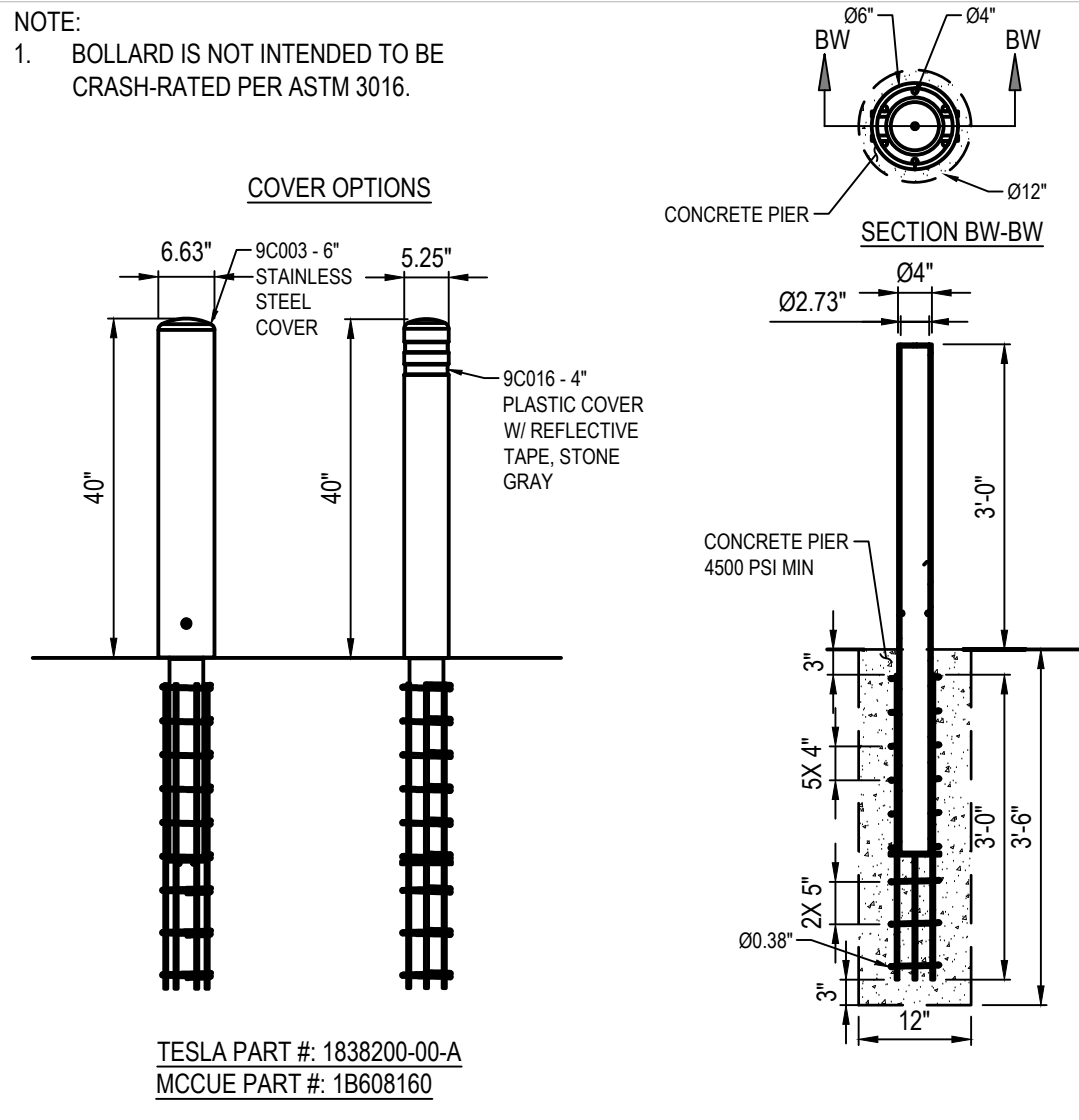
**B-5 TESLA SUPERCHARGER CABINET DIMENSIONS**  
N.T.S.



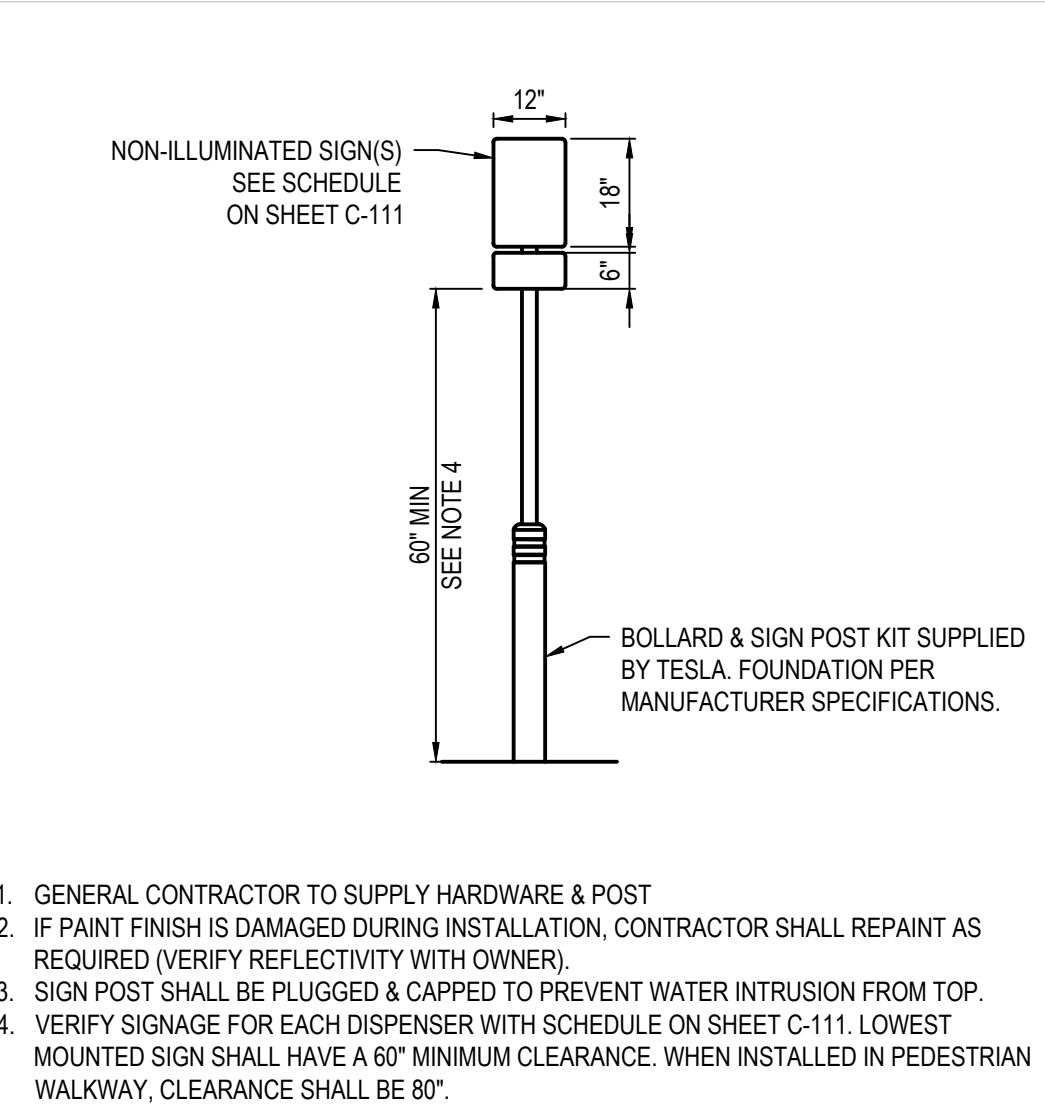
**A-1 ACCESSIBLE REACH ELEVATION**  
N.T.S.



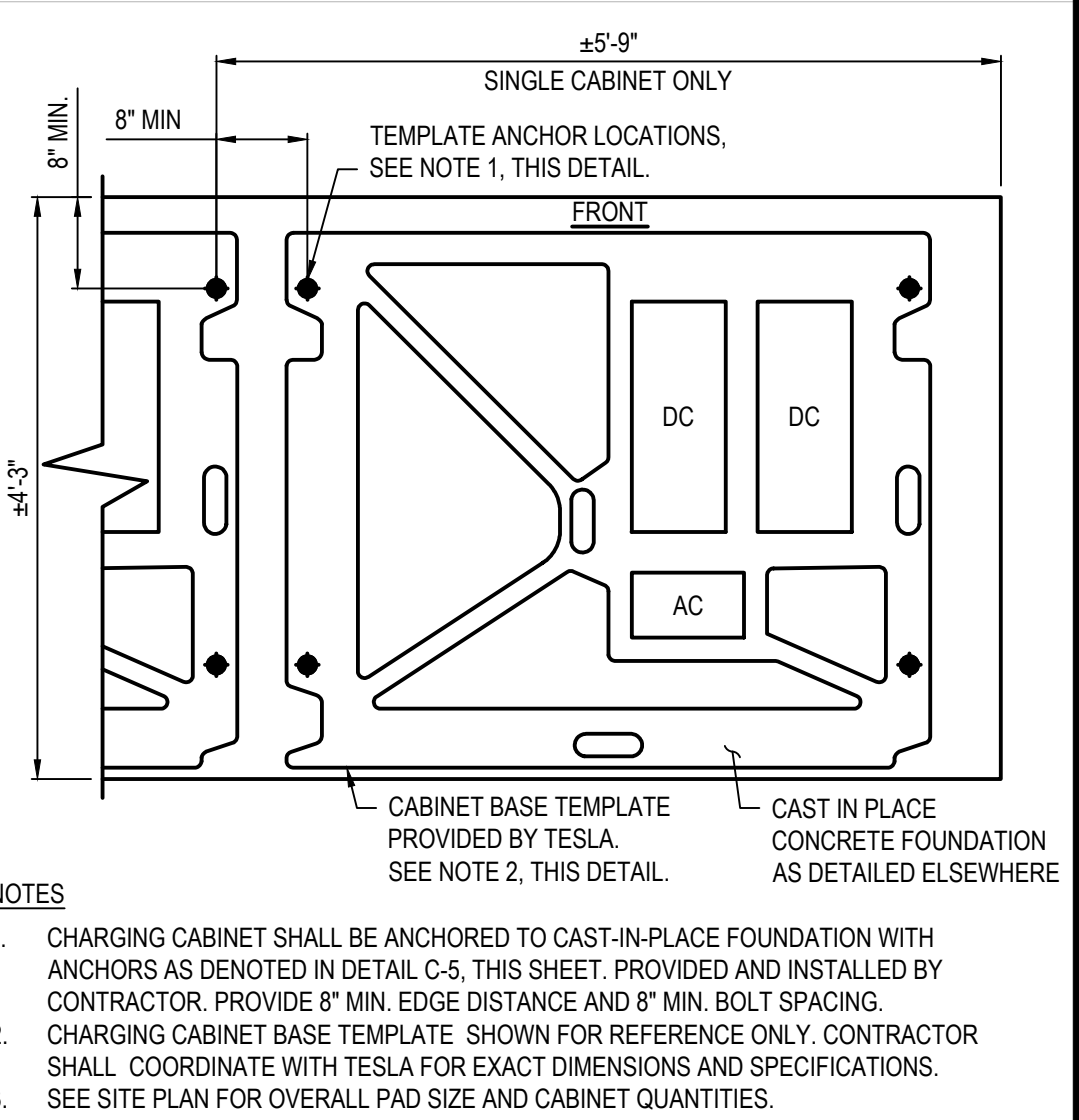
**A-2 REBOUNDED DETERRENT BOLLARD**  
N.T.S.



**A-3 CRASHCORE DETERRENT BOLLARD**  
N.T.S.



**A-4 NON-ILLUMINATED SIGN**  
N.T.S.



**A-5 TESLA SUPERCHARGER CABINET DIMENSIONS**  
N.T.S.

REV.	DATE	DESCRIPTION
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O	04/26/2024	ADDRESSED COMMENTS PER CITY OF PUYALLUP
1	10/10/2024	ADDRESSED ALL COMMENTS

PRCNC20231632

10/10/24  
EXPIRES 04/16/2026

**TESLA SUPERCHARGER STATION**  
3310 S MERIDIAN ST. (TESLA SUPERCHARGER)  
PUYALLUP, WA 98373

PROJECT MANAGER: IM  
DESIGNER: CPC

JOB NO.  
**2023241.47**

**C-201**

**TESLA**

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

**GPD GROUP**  
Professional Corporation

520 South Main Street, Suite 2531  
Akron, OH 44311  
330.572.2100 Fax 330.572.2101

CIVIL DETAILS



Drawing Name: C:\2023\202324147 - TRT 27473 - South Hill Mall (Target) Puyallup, WA\dwg\202324147 - Puyallup, WA - SSS.dwg  
 October 10, 2024 9:24 AM - cdbaby

**City of Puyallup**  
 Development & Permitting Services  
**ISSUED PERMIT**

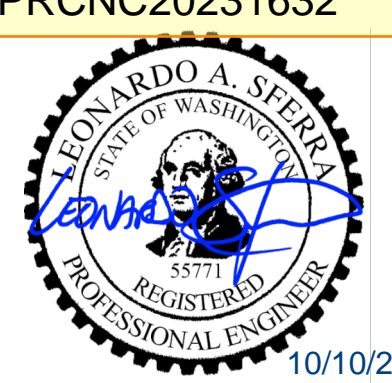
Building	Planning
Engineering	Public Works
Fire	Traffic

**TESLA**  
 3500 DEER CREEK RD.  
 PALO ALTO, CA 94304  
 (650) 681-5000

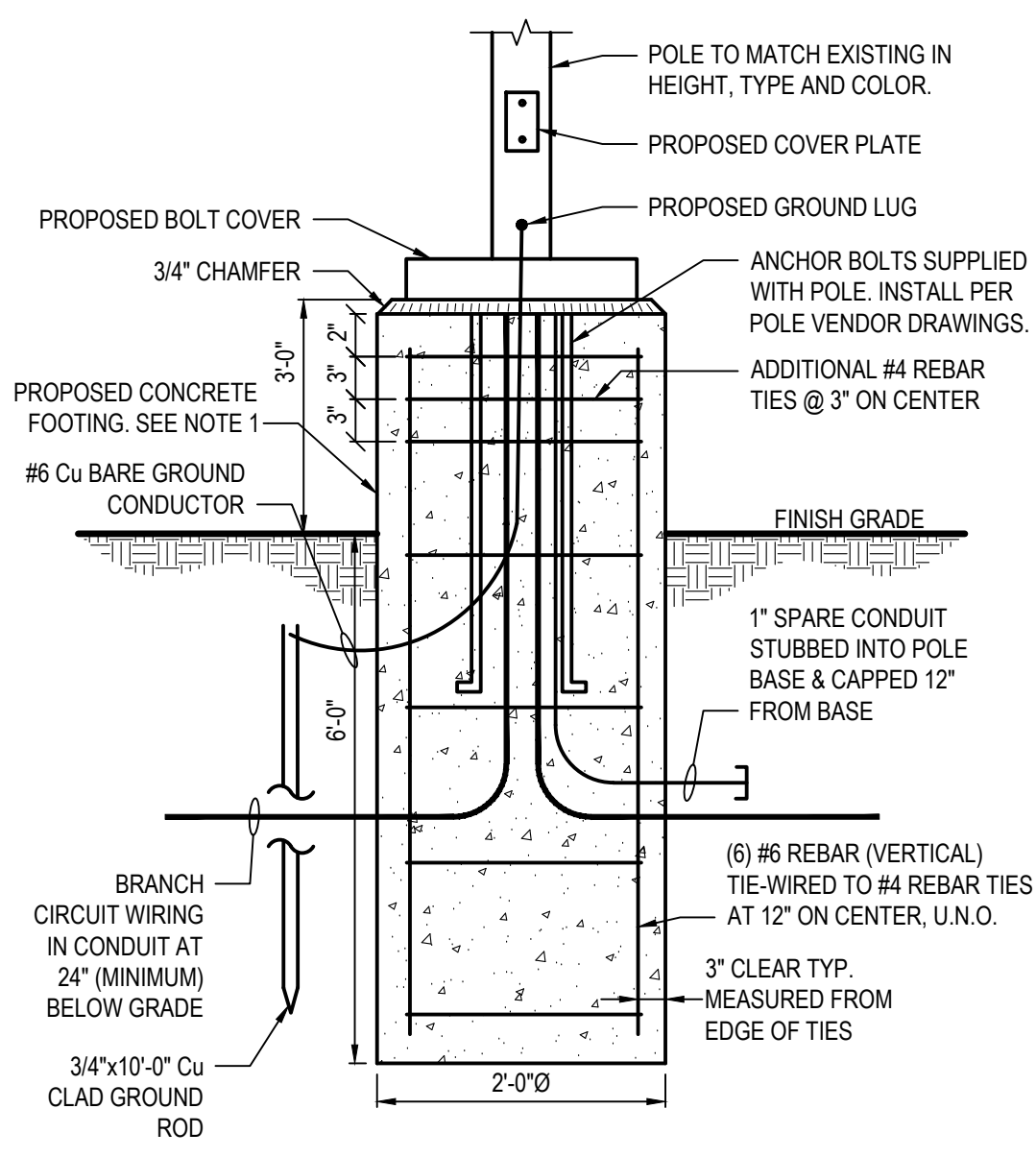
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520 South Main Street, Suite 2531  
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PR CNC 20231632  
 PR CNC 20231632

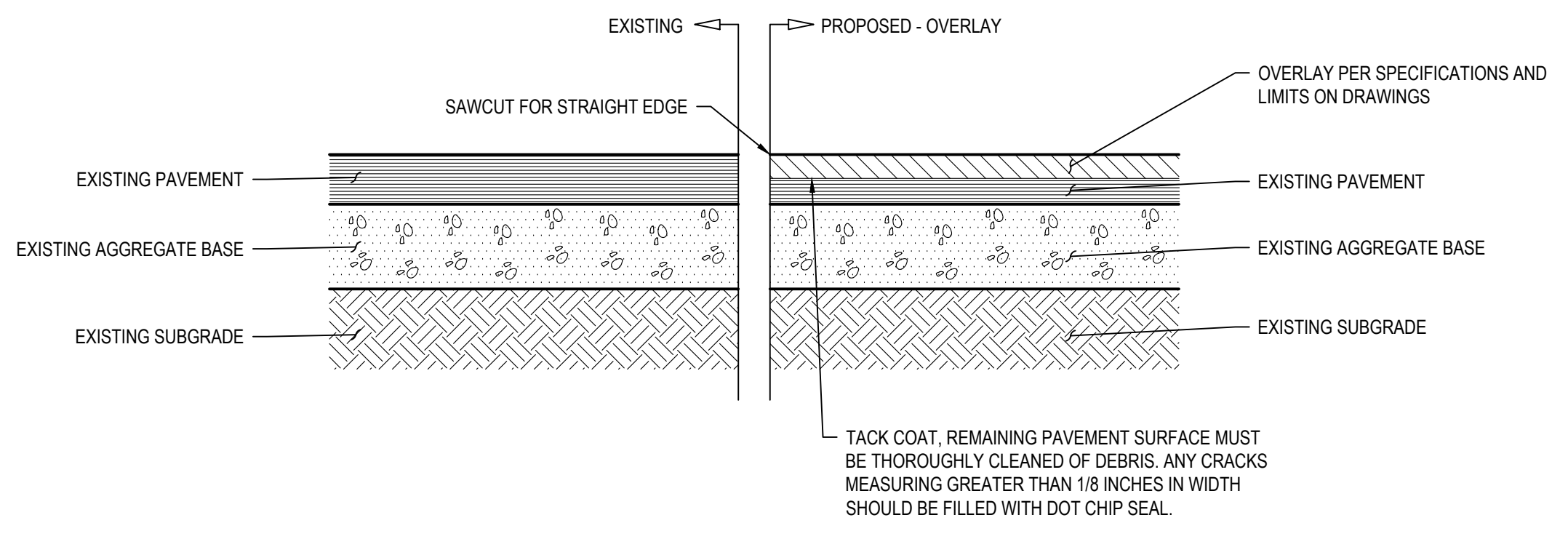


10/10/24  
EXPIRES 04/16/2026

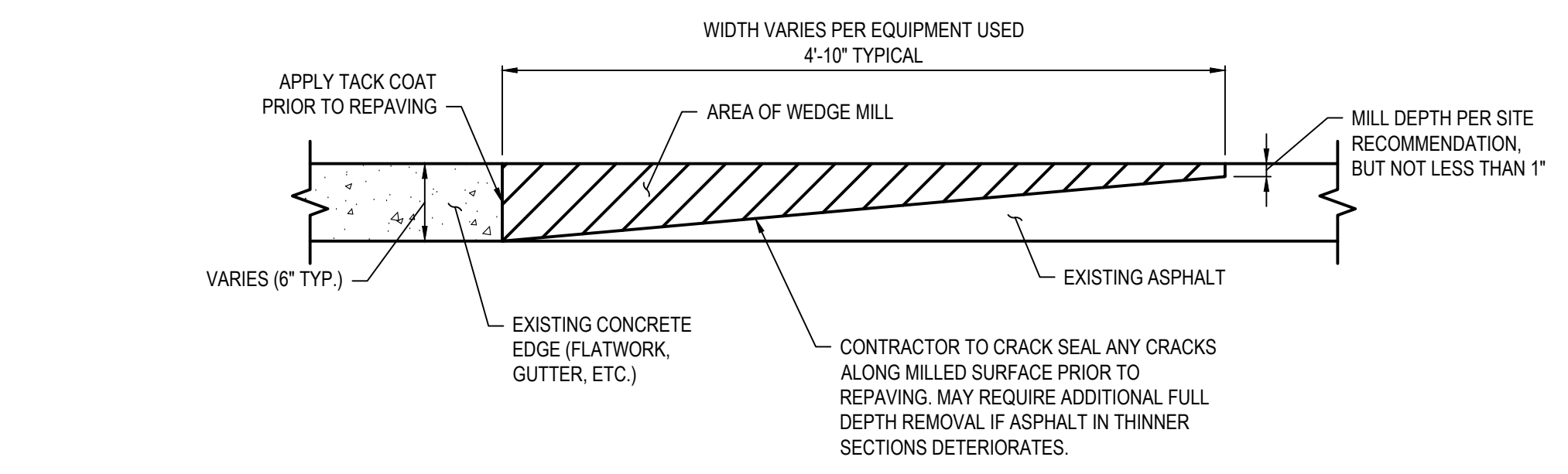


- NOTE:**
- RUB CONCRETE TO REMOVE SONOTUBE FORM LINES AND FILL ALL HOLES FOR SMOOTH FINISH. WEATHERSEAL ALL EXPOSED CONCRETE.
  - SEE GENERAL NOTES FOR CONCRETE SPECIFICATIONS.

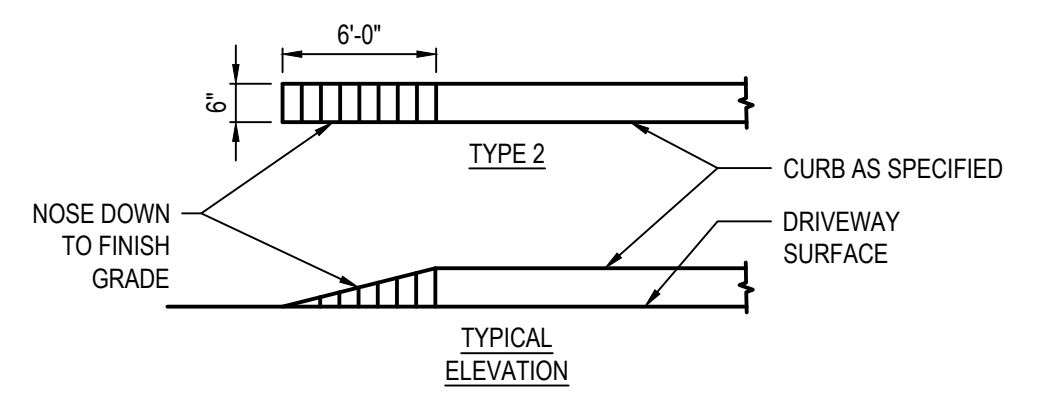
**B-1** LIGHT POLE FOUNDATION  
N.T.S.



**C-2** OVERLAY ASPHALT  
N.T.S.



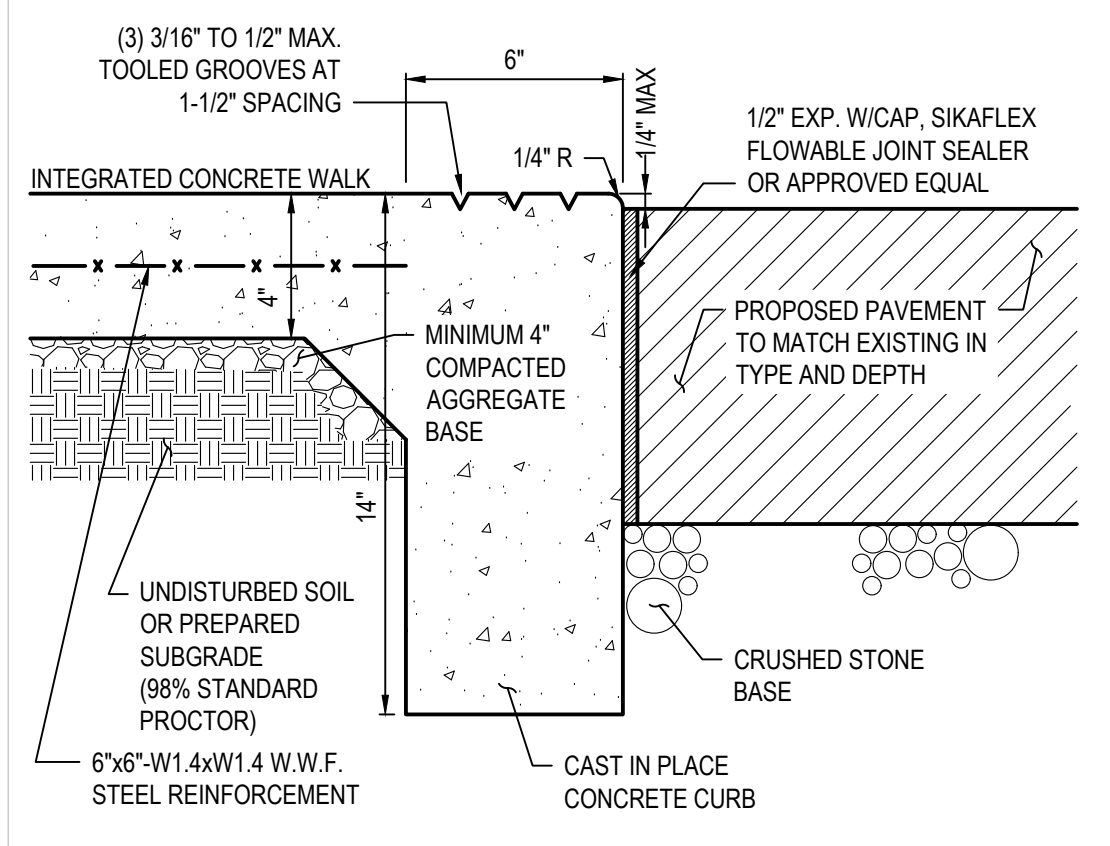
**C-4** PRE-OVERLAY ASPHALT TREATMENT  
N.T.S.



**C-5** CONCRETE CURB TAPER  
N.T.S.

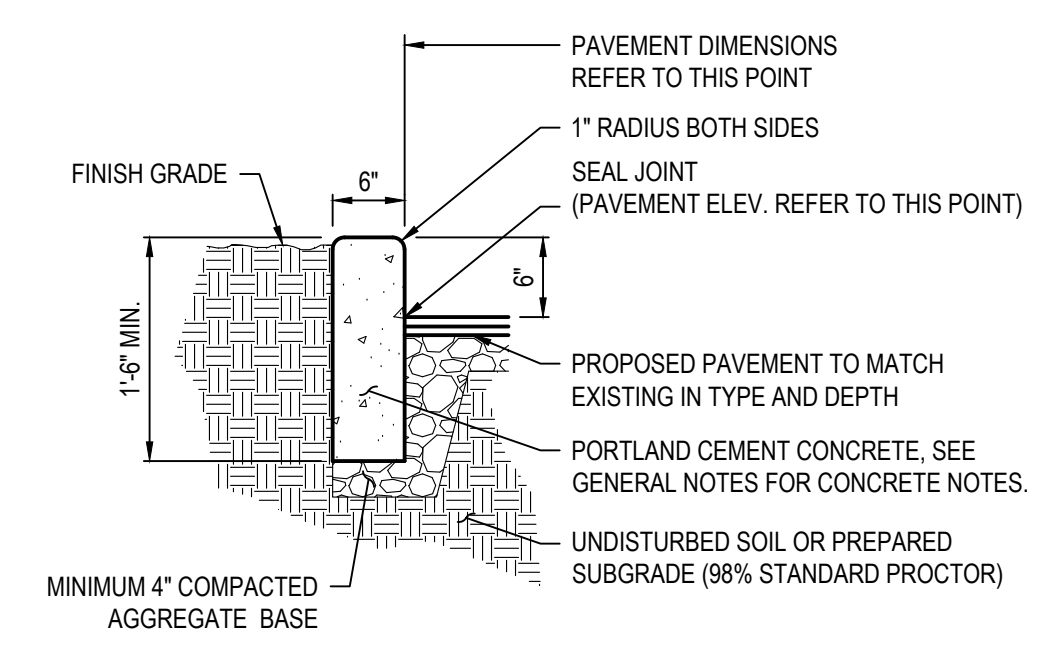
- NOTES:**
- CONTRACTOR TO ENSURE PROPER DRAINAGE OF NEWLY PAVED AREAS.
  - IN ASPHALT SECTIONS THINNER THAN 6\"/>

**B-2** TYPICAL WEDGE MILL  
N.T.S.



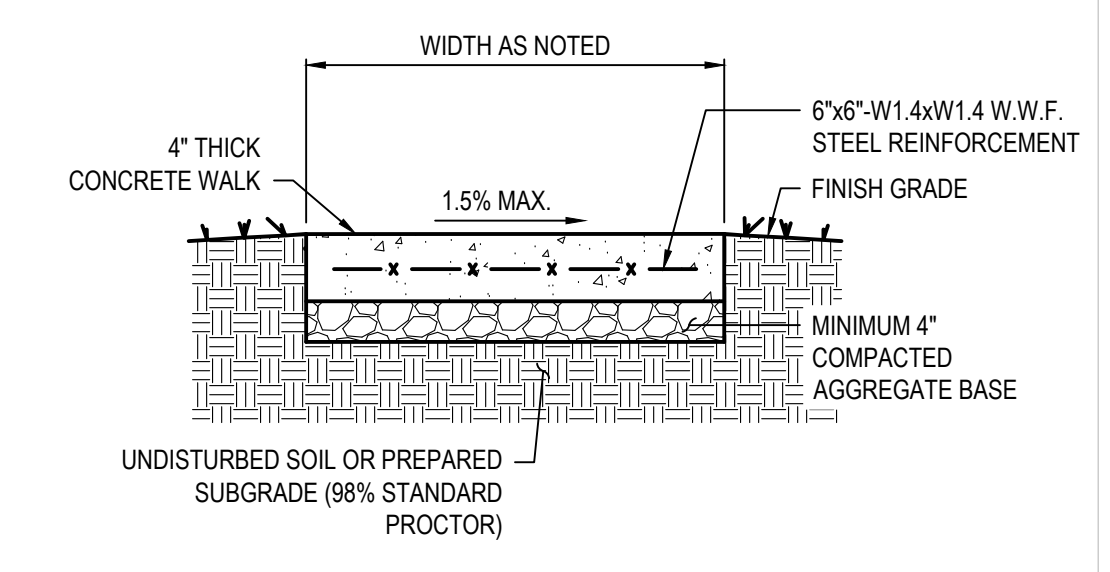
- NOTES:**
- REFER TO GENERAL NOTES FOR CONCRETE SPECIFICATION.
  - SIDEWALK WIDTH AS SHOWN ON SITE PLAN.

**B-4** FLUSH CURB WITH INTEGRATED WALK  
N.T.S.



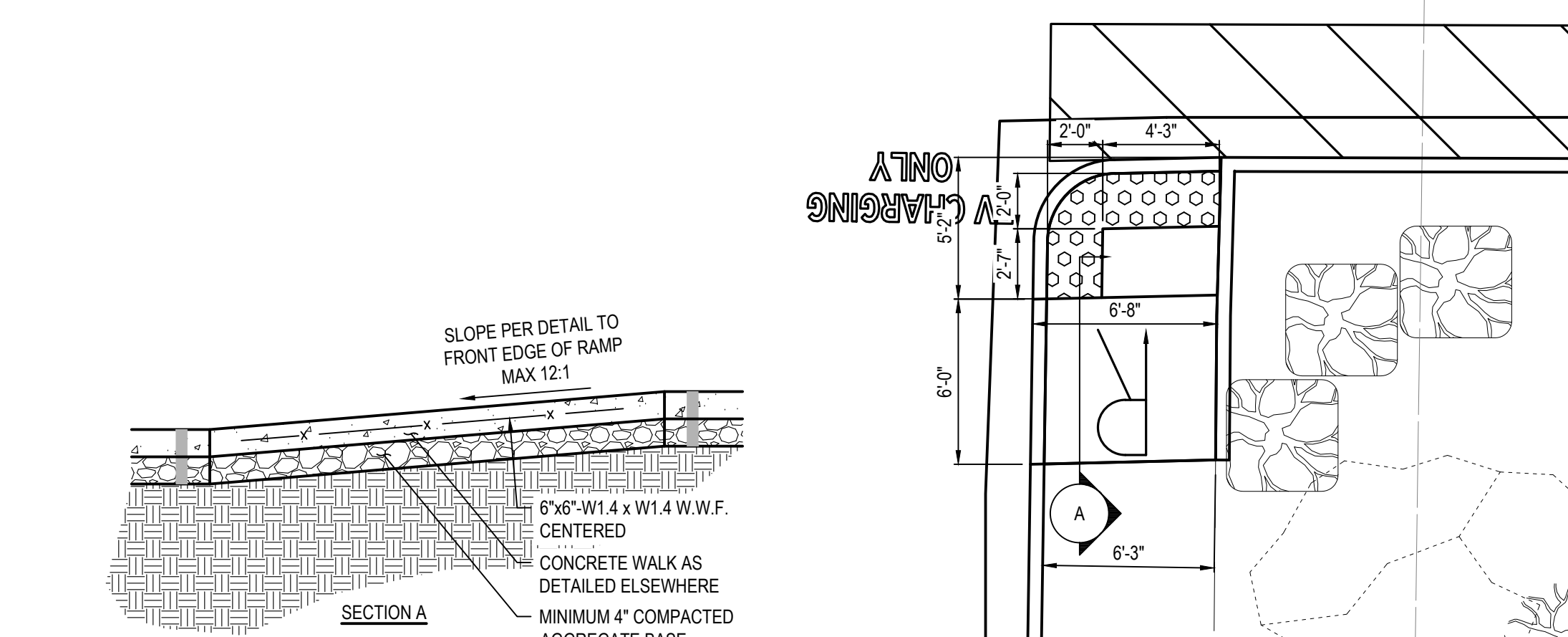
- NOTE:**
- CONTRACTOR SHALL ASSESS EXISTING CURB AND INSTALL PROPOSED CURB TO MATCH. ABOVE DETAILS TO BE USED AS MINIMUM STANDARDS.

**B-5** CONCRETE CURB  
N.T.S.



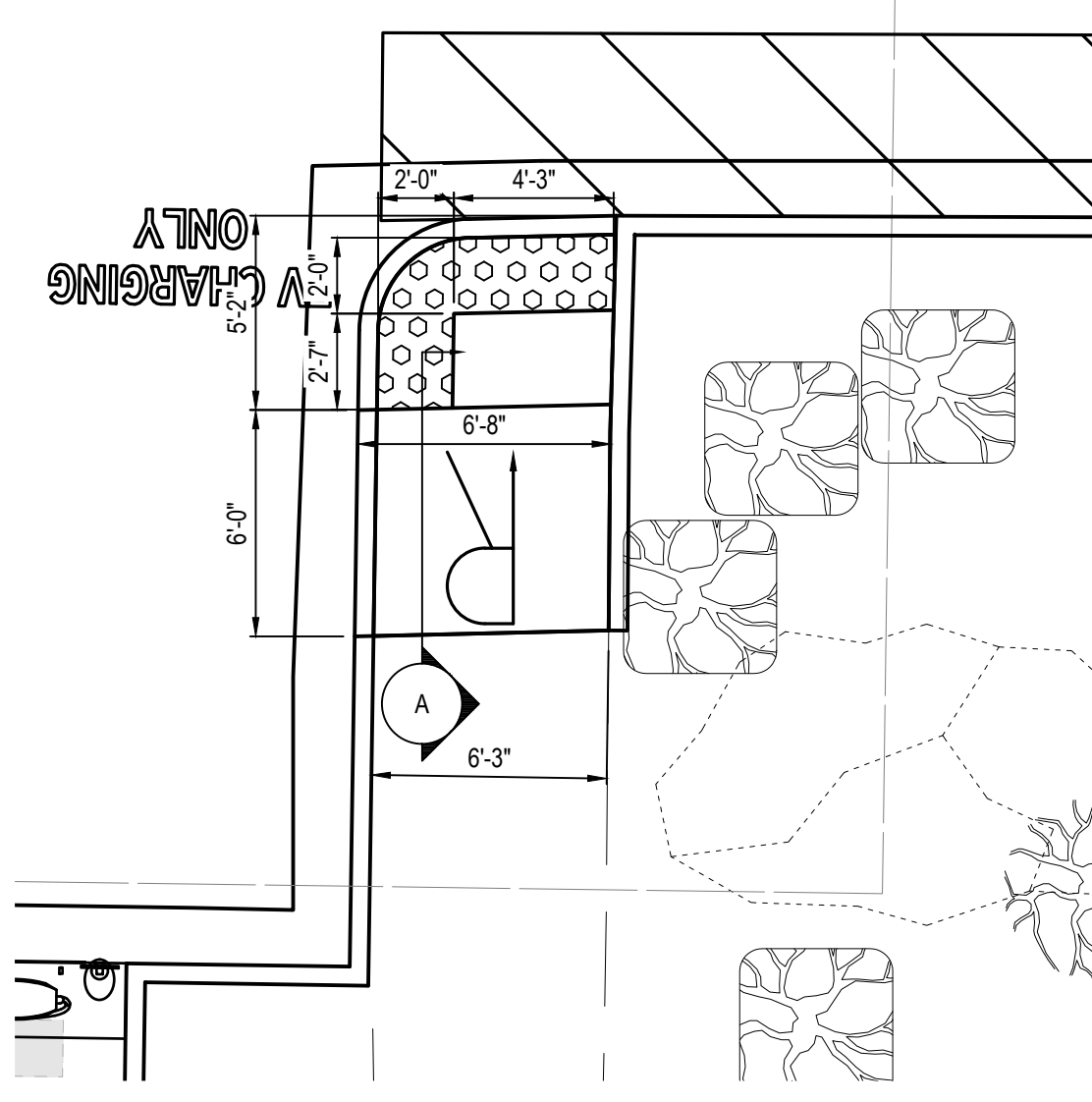
- NOTES:**
- CONTRACTOR SHALL INSTALL 1/2\"/>
  - SEE GENERAL NOTES SHEET FOR CONCRETE AND REINFORCEMENT SPECIFICATIONS.

**A-1** CONCRETE WALK  
N.T.S.



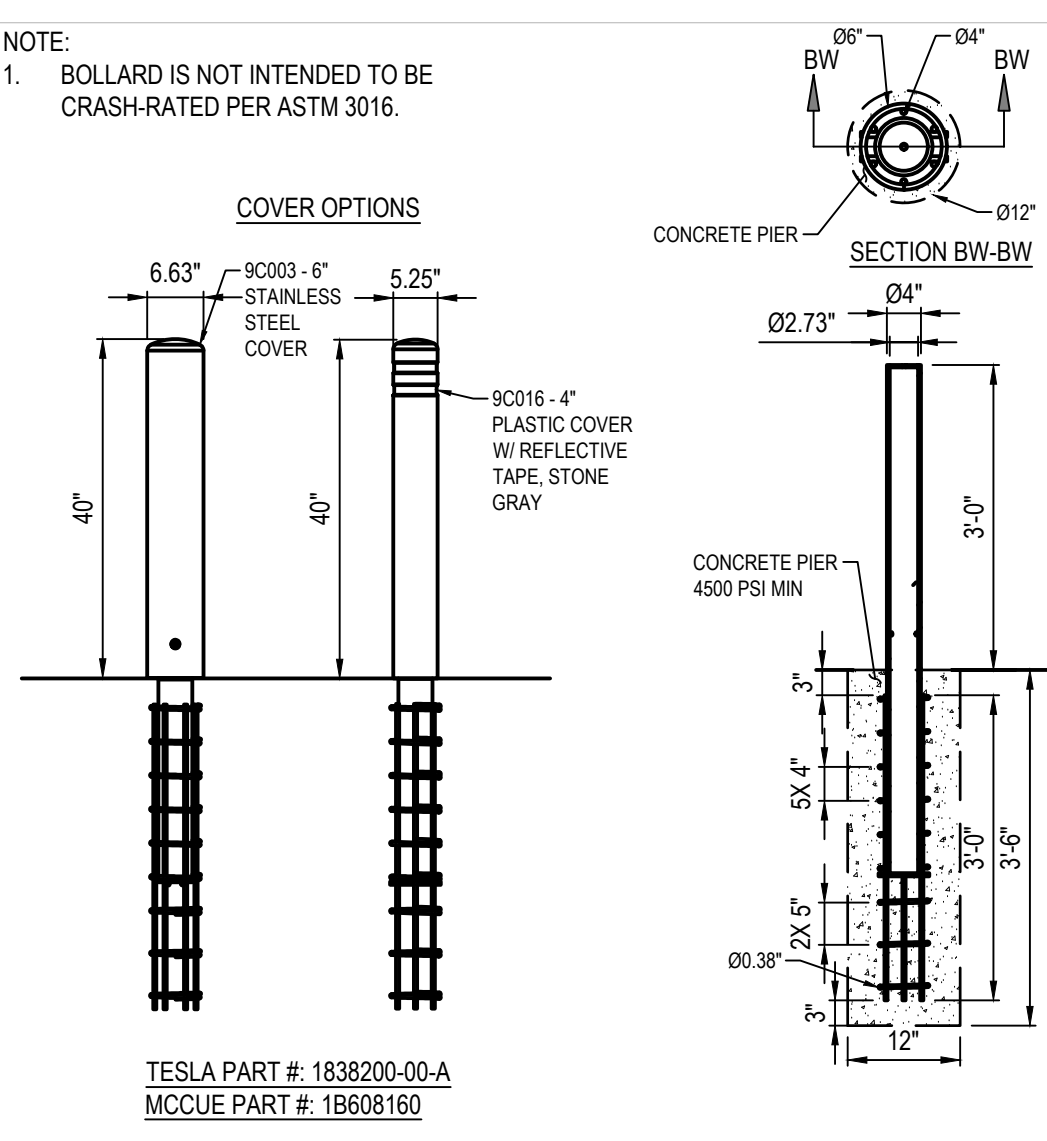
- DETECTABLE WARNINGS**  
 ARMOR-TILE TACTILE SYSTEMS DETECTABLE WARNING SURFACE TILE PER ARMOR-TILE SPECIFICATIONS FOR INSTALLATION (WWW.ARMOR-TILE.COM)  
 DETECTABLE WARNING COLOR SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

**A-2** ADA ACCESSIBLE RAMP  
N.T.S.



- NOTE:**
- REFER TO GENERAL NOTES FOR ADDITIONAL PAVEMENT MARKING NOTES AND SPECIFICATIONS.

**A-4** TRANSVERSE STRIPING  
N.T.S.



TESLA PART #: 1838200-00-A  
 MCCUE PART #: 1B608160

**A-5** CRASHCORE DETERRENT BOLLARD  
N.T.S.

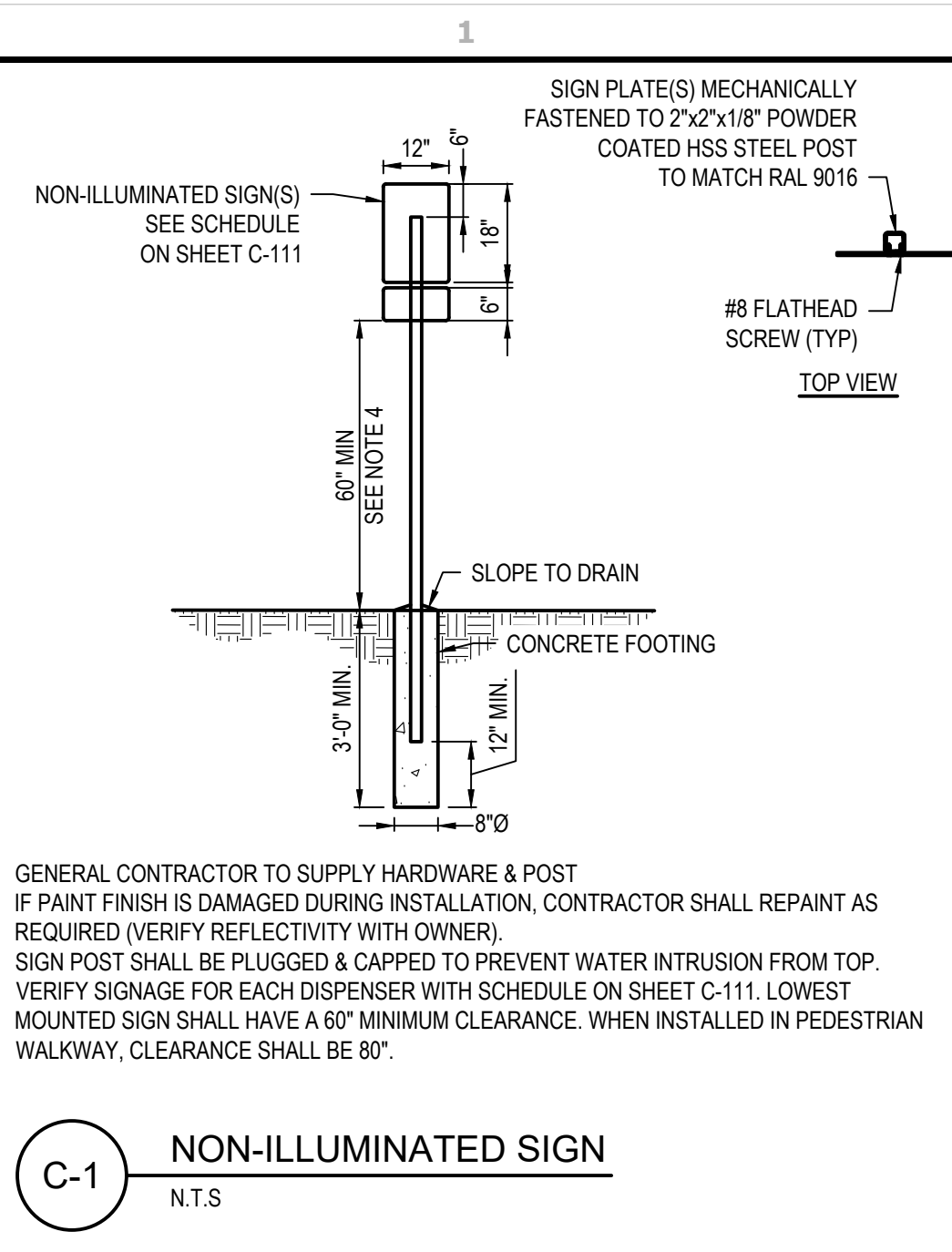
**TESLA SUPERCHARGER STATION**  
 3310 S MERIDIAN ST. (TESLA SUPERCHARGER)  
 PUYALLUP, WA 98373

PROJECT MANAGER	DESIGNER
IM	CPC

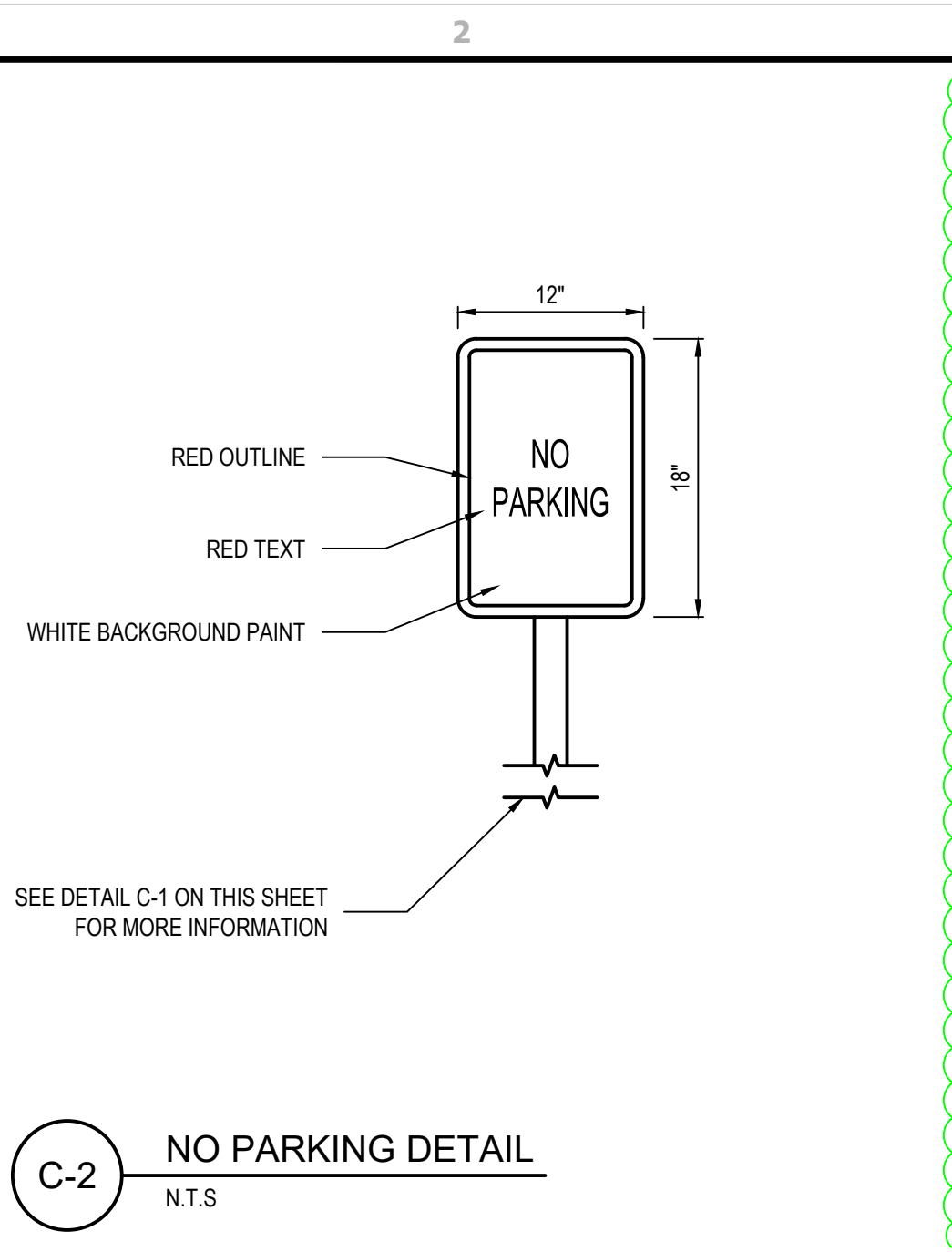
JOB NO.  
**2023241.47**

**C-202**

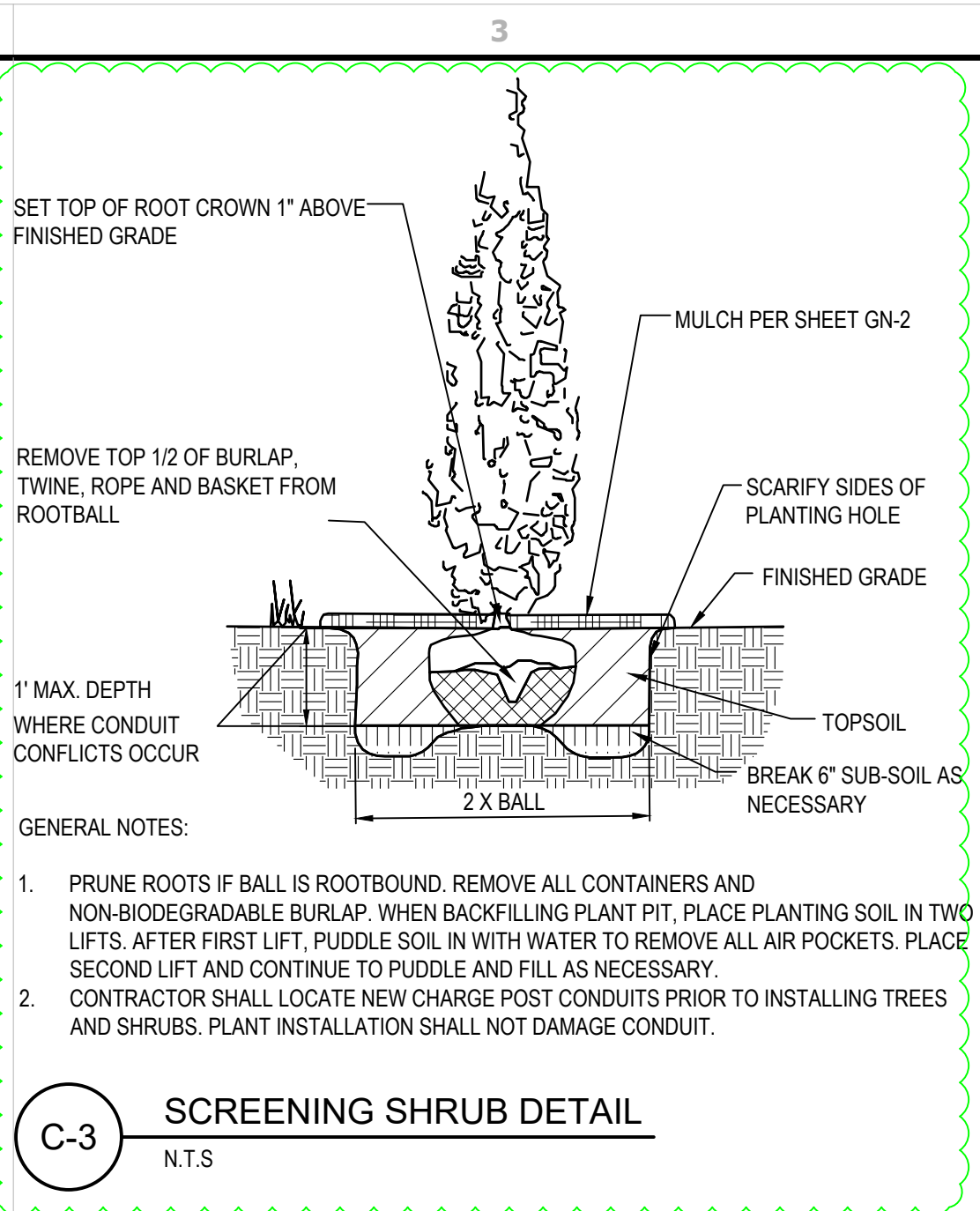
**CIVIL DETAILS**



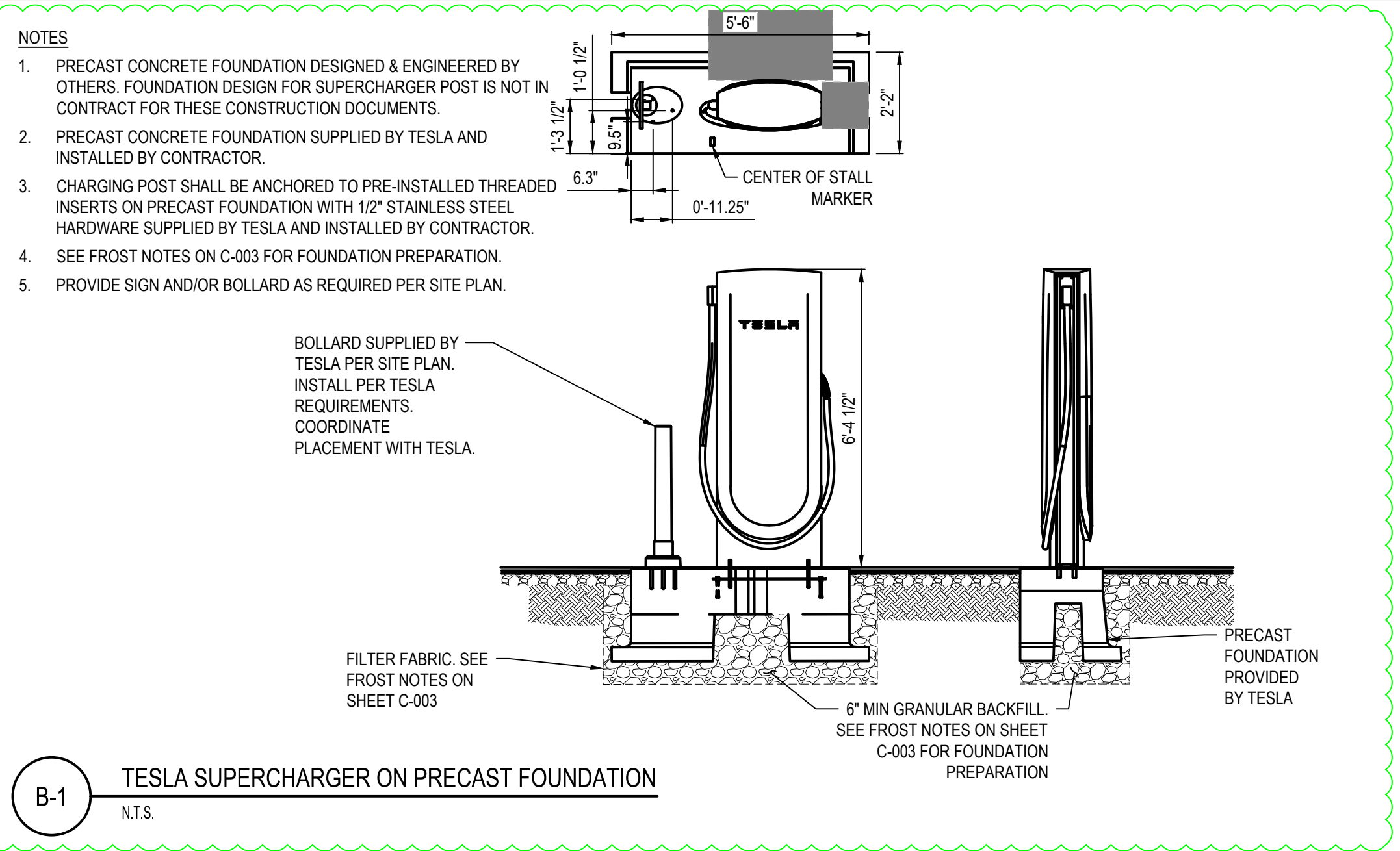
**C-1** NON-ILLUMINATED SIGN  
N.T.S



**C-2** NO PARKING DETAIL  
N.T.S



**C-3** SCREENING SHRUB DETAIL  
N.T.S



**B-1** TESLA SUPERCHARGER ON PRECAST FOUNDATION  
N.T.S

City of Puyallup  
 Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

**GPD GROUP**  
 Professional Corporation  
 520 South Main Street, Suite 2531  
 Akron, OH 44311  
 330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
A	08/11/2023	ISSUED FOR 50% REVIEW
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0	04/26/2024	ADDRESSED COMMENTS PER CITY OF PUYALLUP
1	10/10/2024	ADDRESSED ALL COMMENTS

PRCNC20231632  
**PRCNC20231632**

10/10/24  
 EXPIRES 04/16/2026

**TESLA SUPERCHARGER STATION**  
 3310 S MERIDIAN ST., (TESLA SUPERCHARGER)  
 PUYALLUP, WA 98373

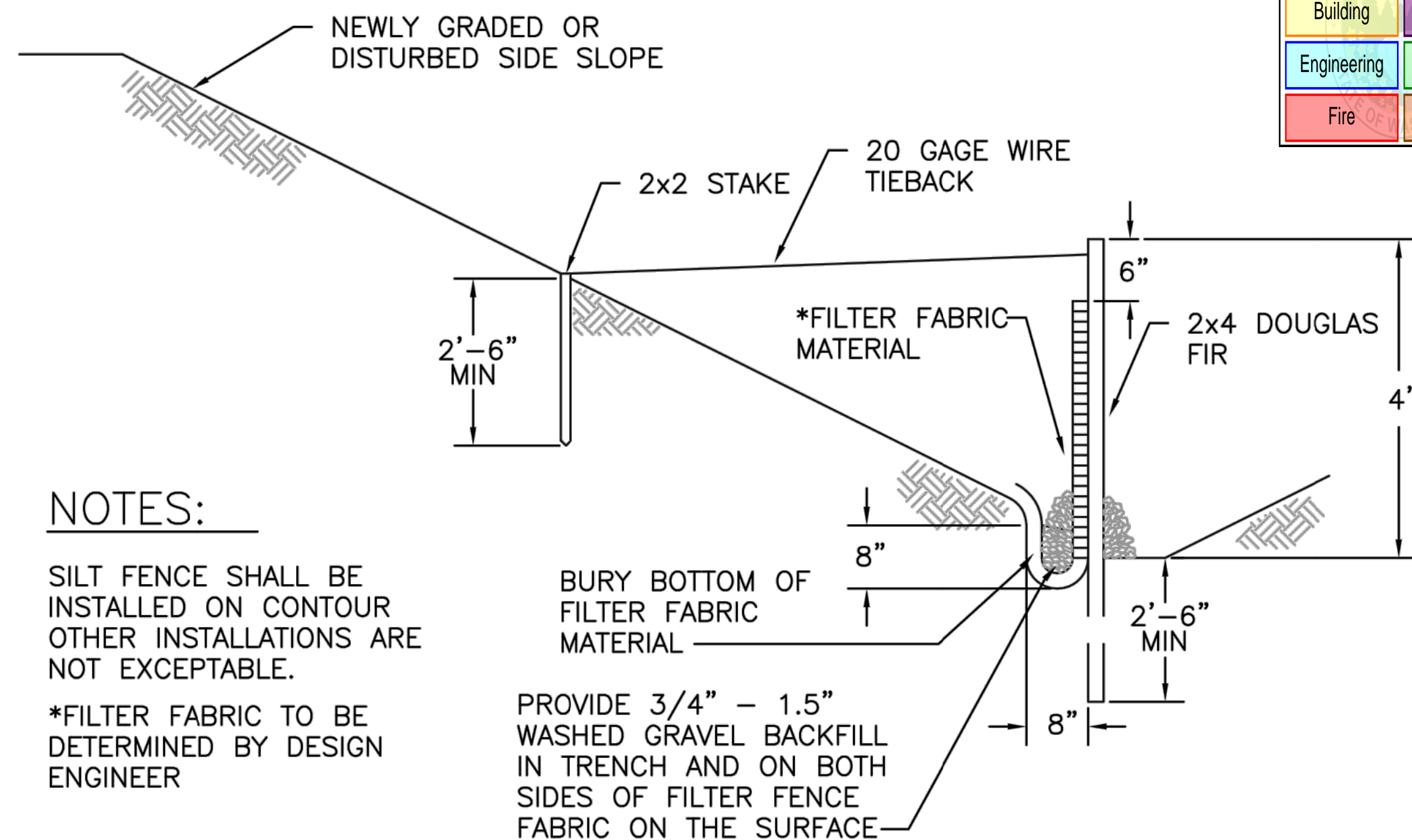
**CIVIL DETAILS**

PROJECT MANAGER	DESIGNER
IM	CPC

JOB NO.  
**2023241.47**

**C-203**

City of Puyallup Development & Permitting Services ISSUED PERMIT	
Building	Planning
Engineering	Public Works
Fire	Traffic

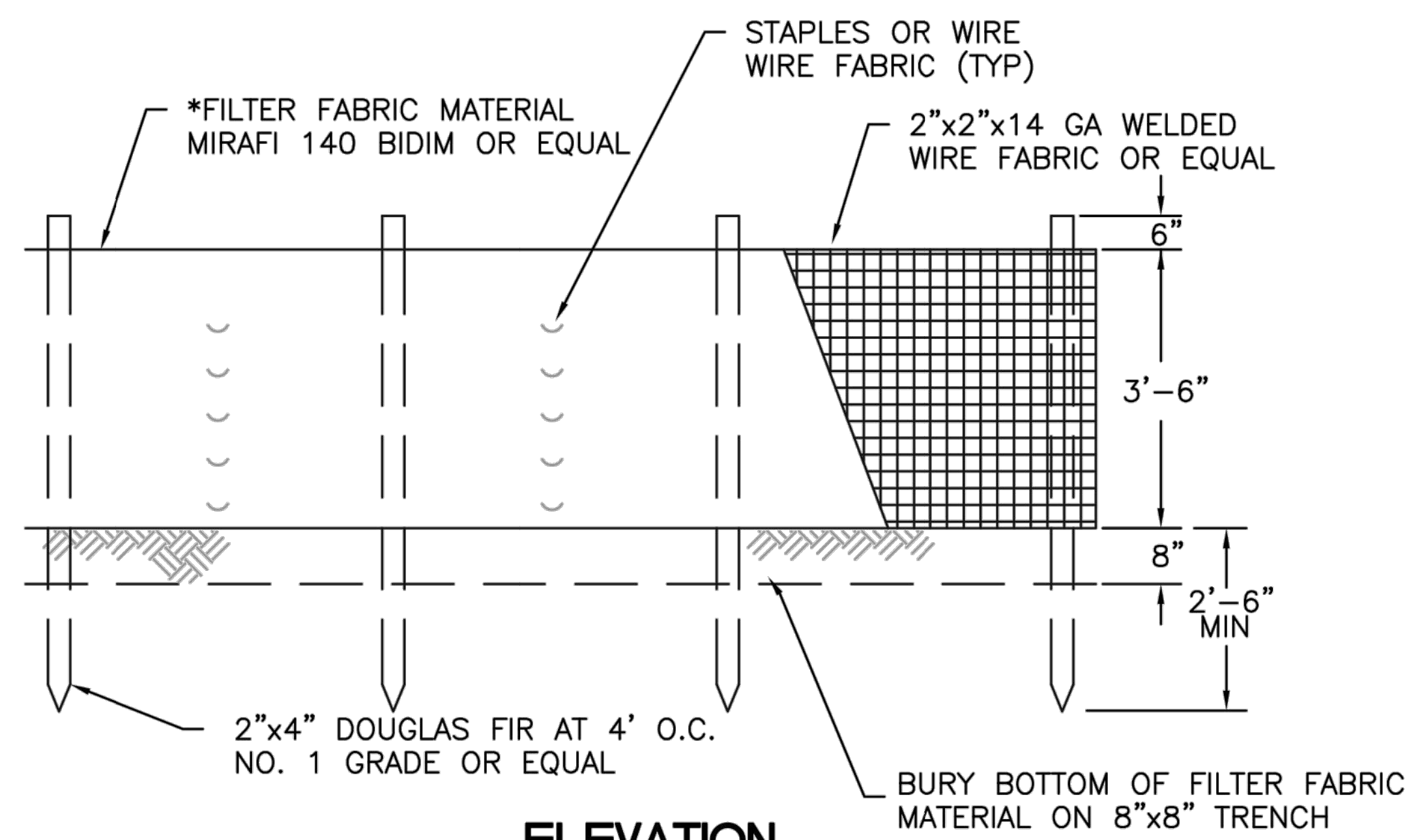


**NOTES:**

SILT FENCE SHALL BE INSTALLED ON CONTOUR OTHER INSTALLATIONS ARE NOT EXCEPTABLE.  
 \*FILTER FABRIC TO BE DETERMINED BY DESIGN ENGINEER

BURY BOTTOM OF FILTER FABRIC MATERIAL  
 PROVIDE 3/4" - 1.5" WASHED GRAVEL BACKFILL IN TRENCH AND ON BOTH SIDES OF FILTER FENCE FABRIC ON THE SURFACE

**TYPICAL CROSS SECTION**



**ELEVATION**

1. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.
2. ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITEE.
3. THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
4. APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.
5. ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSIVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.
6. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.
7. NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

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PRCNC20231632

FOR REFERENCE ONLY

TESLA SUPERCHARGER STATION  
 3310 S MERIDIAN ST. (TESLA SUPERCHARGER)  
 PUYALLUP, WA 98373

CITY OF PUYALLUP GENERAL  
 NOTES AND DETAILS

PROJECT MANAGER	DESIGNER
IM	CPC

JOB NO.  
 2023241.47

**C-204**

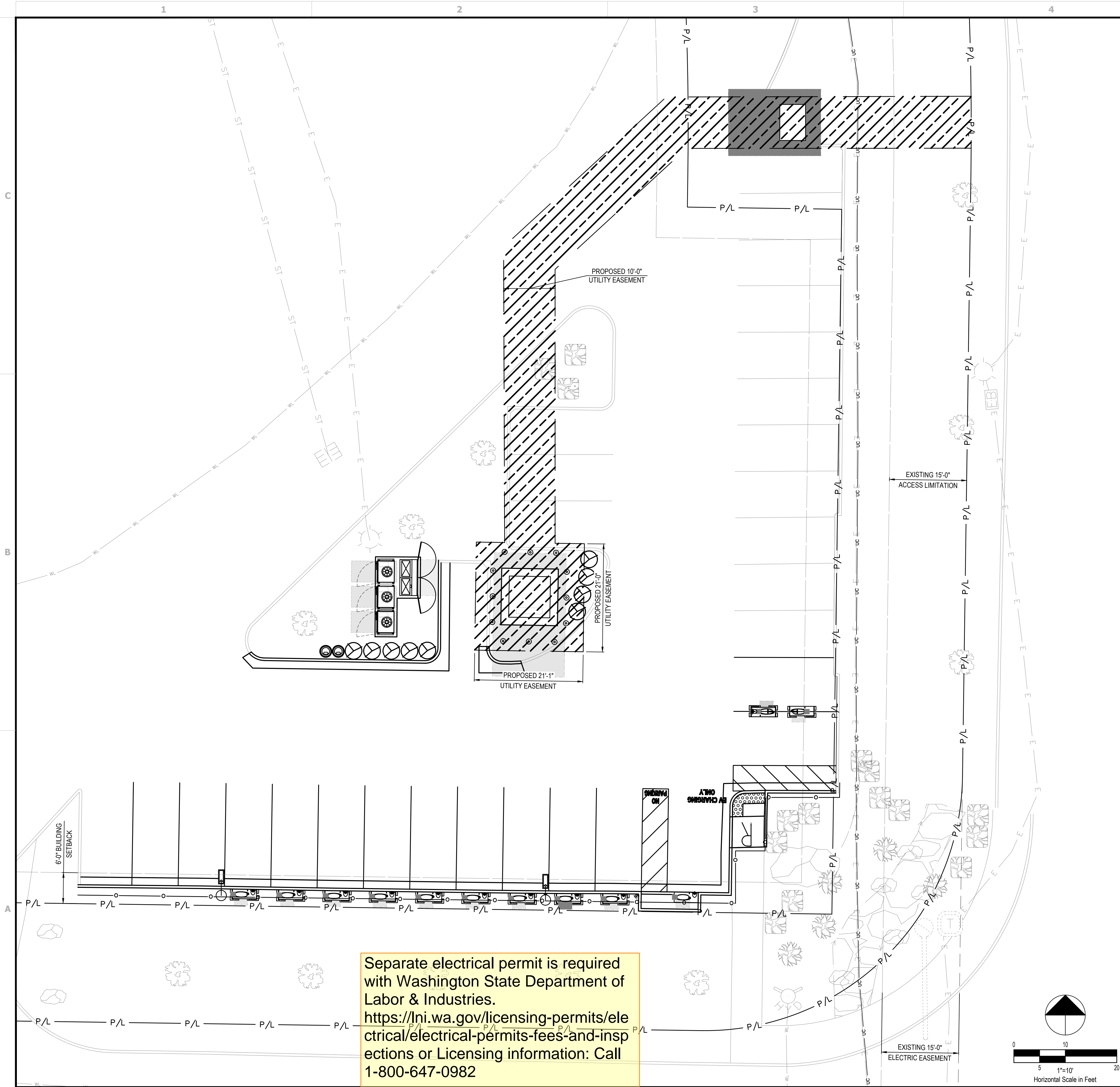
**CITY OF PUYALLUP**  
 DEVELOPMENT ENGINEERING and  
 PUBLIC WORKS DEPARTMENTS

<b>SILTATION FENCE</b>		CITY STANDARD	
DRAWN BY LINDA LANSING	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY XXXX
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\02_SD\02.03.02	DATE APPROVED 09/01/1992	DATE REVISED 06/01/2003	SCALE NTS
			02.03.02

**CITY OF PUYALLUP**  
 DEVELOPMENT ENGINEERING and  
 PUBLIC WORKS DEPARTMENTS

<b>GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES</b>		CITY STANDARD	
DRAWN BY JIM ERWIN-SVOBODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY LINDA LIAN
FILE NAME F:\DWG\COMMON\STDS\CITY\2009\05_GRD\05.01\05.02.01	DATE APPROVED 07/01/2009	DATE REVISED 11/18/2014	SCALE 1:1
			05.02.01

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 October 10, 2024 9:25 AM - cdday

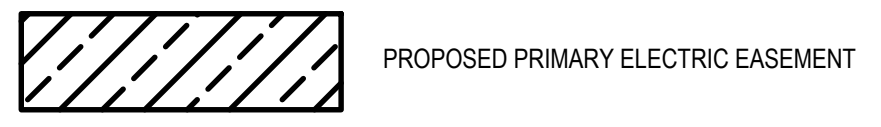


Separate electrical permit is required with Washington State Department of Labor & Industries.  
<https://lni.wa.gov/licensing-permits/electrical/electrical-permits-fees-and-inspections> or Licensing information: Call 1-800-647-0982

**GENERAL SHEET NOTES**

- PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY FOR EXACT LOCATION.
- SEE CLARK/DIAMONDBACK SURVEY FOR ALL APPLICABLE BENCHMARKS.

**LEGEND**



**City of Puyallup  
 Development & Permitting Services  
 ISSUED PERMIT**

Building	Planning
Engineering	Public Works
Fire	Traffic

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PRCNC20231632

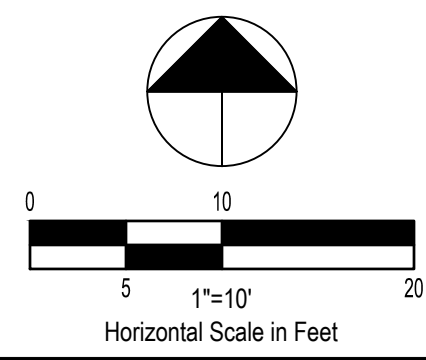
**TESLA SUPERCHARGER STATION**  
 3310 S MERIDIAN ST. (TESLA SUPERCHARGER)  
 PUYALLUP, WA 98373

**EASEMENT PLAN**

PROJECT MANAGER	DESIGNER
IM	CPC

JOB NO.  
2023241.47

**C-301**



**TESLA**

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

**GPD GROUP**  
 Professional Corporation

520 South Main Street, Suite 2531  
 Akron, OH 44311  
 330.572.2100 Fax 330.572.2101



DC CHARGING POST LENGTHS			
CABINET	POST	LF	***EST***
1	1A	124	146
	1B	106	128
	1C	97	119
	1D	88	110
2	2A	75	97
	2B	66	88
	2C	57	79
	2D	64	86
3	3A	68	90
	3B	77	99
	3C	110	132
	3D	115	137
EST CONDUIT LENGTH			1311

AC CHARGING CABINET LENGTHS			
CIRCUIT	CABINET	LF	**EST**
1	1	14	30
2	2	12	28
3	3	10	26
TOTAL LENGTH OF AC WIRE			672
TOTAL LENGTH OF GND Cu WIRE			168

SEE SHEET E-201 FOR FEEDER SCHEDULE  
 TOTAL LENGTH OF AC WIRE  
 SUM OF EST LENGTH x 8 WIRES PER CABINET  
 TOTAL LENGTH OF GND Cu  
 SUM OF EST LENGTHS x (2) SETS

UTILITY SERVICE LENGTHS		
UTILITY TRANSFORMER TO SWITCHGEAR	LF	*EST*
	20	42
TOTAL LENGTH OF WIRE PER CONDUIT		
168		
NUMBER OF WIRE FILLED CONDUIT		
5		
TOTAL LENGTH OF WIRE		
840		

\*AC UTILITY SERVICE CONDUCTORS  
 22 FT IS ADDED TO THE HORIZONTAL RUN TO ACCOUNT FOR BURIED DEPTH  
 \*\*AC CONDUCTORS  
 16 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR THE VERTICAL RUN.  
 \*\*\*DC CONDUCTORS  
 22 FT IS ADDED TO THE HORIZONTAL RUN LENGTH TO ACCOUNT FOR VERTICAL RUN

LUMINAIRE SCHEDULE											
SYMBOL	QUANTITY	SERIES	LEDs	COLOR TEMPERATURE	DISTRUBUTION	VOLTAGE	MOUNTING	COLOR OPTIONS	OTHER OPTIONS	FINISH	ACCESSORIES
	2	DSX1 LED	P5	40K	T3M	277	SQA (SQUARE POLE)	PER7 PIRH*	HS (HOUSE-SIDE SHIELD)	DDBXD	DLL127F1.5JU (PHOTOCELL)

CATALOG NUMBER: LITHONIA DSX1 LED P5 40K T3M 277 SPA PER7 PIRH HS DDBXD DLL127F1.5JU  
 CONTRACTOR SHALL MATCH EXISTING LIGHT POLE HEIGHT AND COLOR AS REQUIRED  
 \*NOT REQUIRED WITH POLE HEIGHTS GREATER THAN 30'-0"

GENERAL SHEET NOTES

1. (#) DENOTES FEEDER REFERENCE. REFER TO SHEET E-201 FOR FEEDER/CIRCUIT SCHEDULE.
2. CONTRACTOR SHALL REFER TO CIVIL SHEETS FOR EXISTING LANDSCAPING TO REMAIN AND PROPOSED LANDSCAPING.
3. CONTRACTOR SHALL HAND DIG AROUND ALL EXISTING UTILITIES.
4. CONDUIT ELBOWS SHALL BE SIZED PER NEC. CONTRACTOR SHALL VERIFY MANUFACTURER ALLOWABLE FILL AND MINIMUM CONDUCTOR BENDING RADIUS. SEE FEEDER SCHEDULE FOR CONDUIT & CONDUCTOR SPECIFICATIONS.
5. ALL CONDUITS ACCESSIBLE TO THE PUBLIC OR WHICH CAN BE DAMAGED SHALL BE RIGID GALVANIZED STEEL.
6. PROPERTY LINE AND RIGHT-OF-WAY BOUNDARIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SURVEY BY OTHERS FOR EXACT LOCATION.
7. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER TO ENSURE ACCURACY OF INSTALLATION.
8. ALL PROPOSED CONDUITS MUST MEET MINIMUM DEPTH REQUIREMENTS AS OUTLINED IN TRENCH DETAILS, AS WELL AS MAINTAIN A MINIMUM OF 18" VERTICAL AND 12" HORIZONTAL CLEARANCE OF ALL OBSTRUCTIONS INCLUDING (BUT NOT LIMITED TO) STORM PIPES, SANITARY PIPES, WATER LINES AND OTHER UNDERGROUND UTILITIES.
9. FOR TRAFFIC CONTROL PROCEDURES (IF APPLICABLE), SEE TRAFFIC CONTROL NOTES ON SHEET C-003.
10. THE EXACT ROUTING PATH AND CONDUCTOR RUN LENGTHS SHALL BE DETERMINED BY CONTRACTOR IN FIELD BASED ON PHYSICAL MEASUREMENTS. CONTRACTOR SHALL ORDER CONDUCTORS BASED ON FIELD MEASUREMENTS (MUST BE APPROVED BY TESLA PROJECT MANAGER).
11. THE CONDUIT ROUTING SHOWN IS DIAGMMATICAL ONLY, CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING PRIOR TO LAYING CONDUIT.

ELECTRICAL SCOPE OF WORK RESPONSIBILITIES

SCOPE	BY UTILITY	BY CONTRACTOR
PROVIDE PRIMARY SIDE TRENCHING/BORING		X
PROVIDE & INSTALL PRIMARY SIDE CONDUITS W/ PULLWIRE		X
PROVIDE & INSTALL PRIMARY SIDE CONDUCTORS	X	
PROVIDE EXCAVATION FOR VAULT AND TRANSFORMER PAD		X
PROVIDE CONCRETE VAULT FOR TRANSFORMER	X	
PROVIDE UTILITY TRANSFORMER	X	
INSTALL UTILITY TRANSFORMER	X	
INSTALL CONNECTIONS AT UTILITY TRANSFORMER (PRIMARY)	X	
INSTALL CONNECTIONS AT UTILITY TRANSFORMER (SECONDARY)	X	
PROVIDE METER	X	
INSTALL METER	X	
PROVIDE CTs	X	
INSTALL CTs (INSIDE SWITCHGEAR)		X
PROVIDE SECONDARY SIDE TRENCHING		X
PROVIDE & INSTALL SECONDARY SIDE CONDUITS W/ PULLWIRE		X
PROVIDE & INSTALL SECONDARY SIDE CONDUCTORS		X
PROVIDE ROAD CUTS / ROAD BORES		X
PROVIDE & INSTALL LANDSCAPE REMEDIATION		X

NOTE: SCOPE SHOWN ABOVE WAS PROVIDED BY PUGET SOUND ENERGY. FIELD VERIFY PRIOR TO CONSTRUCTION.

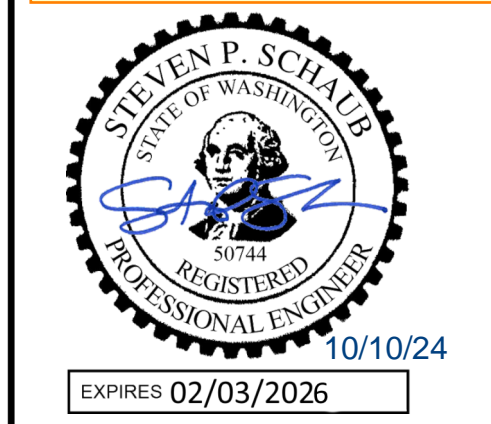
UTILITY COMPANY CONTACT  
 PUGET SOUND ENERGY  
 CONTACT: LONNIE ADAMS  
 (360) 764-6738  
 LONNIE.ADAMS@PSE.COM

City of Puyallup  
 Development & Permitting Services  
 ISSUED PERMIT

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Engineering	Public Works
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PRCNC20231632



TESLA SUPERCHARGER STATION  
 3310 S MERIDIAN ST., (TESLA SUPERCHARGER)  
 PUYALLUP, WA 98373

PROJECT MANAGER	DESIGNER
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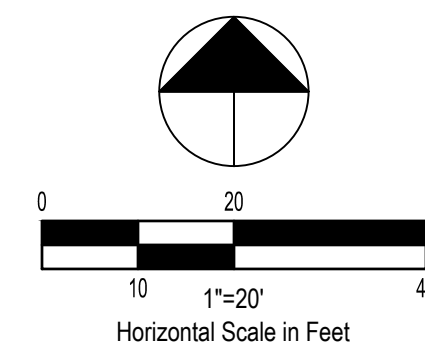
E-101

**TESLA**

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

**GPD GROUP**  
 Professional Corporation  
 520 South Main Street, Suite 2531  
 Akron, OH 44311  
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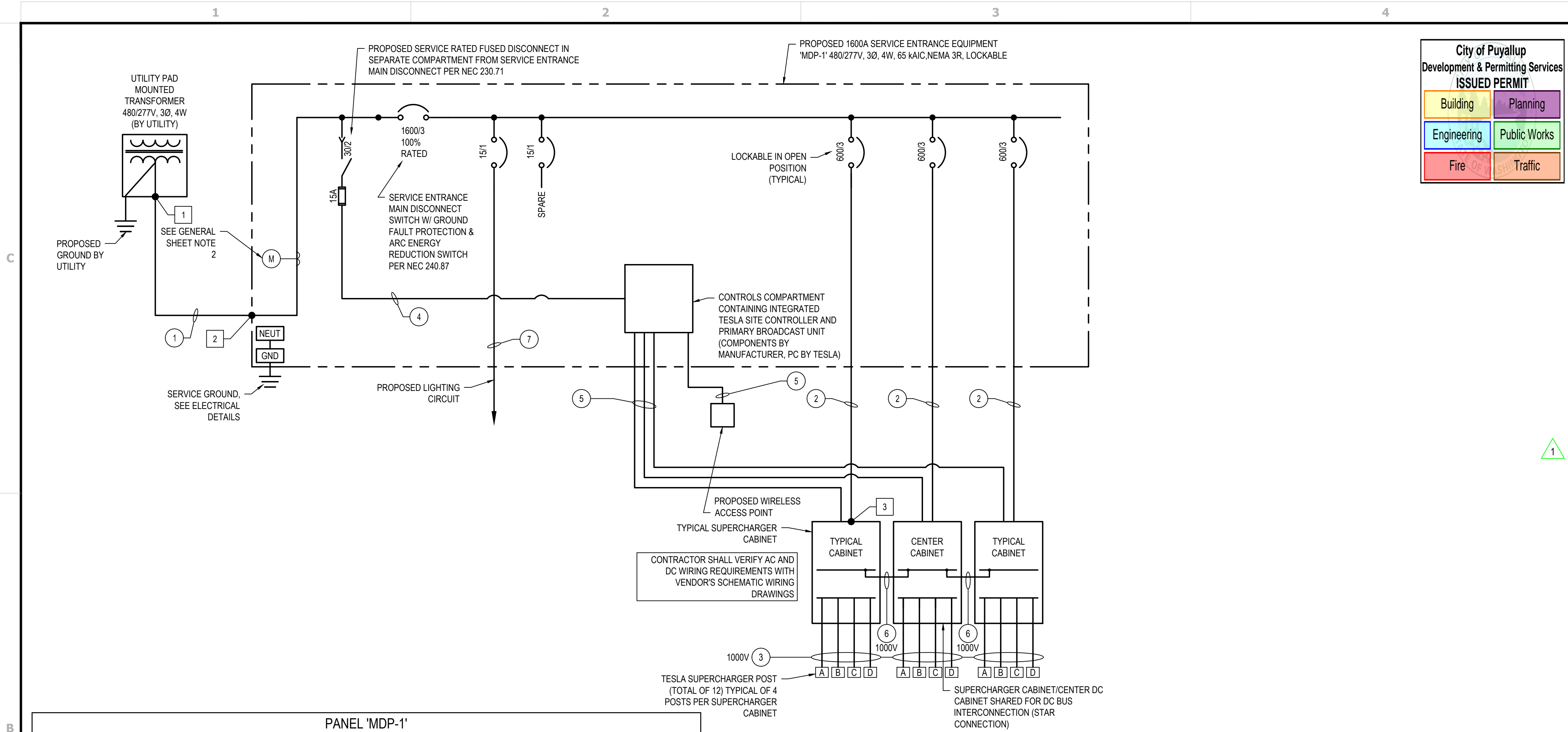
ELECTRICAL SITE PLAN



LEGEND

(#) FEEDER SCHEDULE REFERENCE  
 SEE SHEET E-201 FOR FEEDER/CIRCUIT SCHEDULE

Drawing Name: O:\2023\202324147 - TRT 27473 - South Hill Mall (Target) Puyallup, WA\dwg\202324147 - Puyallup, WA - SSS.dwg  
October 10, 2024 9:25 AM - cddy



**City of Puyallup**  
Development & Permitting Services  
**ISSUED PERMIT**

Building	Planning
Engineering	Public Works
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- GENERAL SHEET NOTES**
- NEUTRAL MUST BE INCLUDED FOR PROPER OPERATION OF TESLA SUPERCHARGERS.
  - PROPOSED UTILITY CTs SHALL BE LOCATED IN UTILITY APPROVED CT COMPARTMENTS MOUNTED IN SWITCHGEAR. PROPOSED METER SHALL BE MOUNTED IN SWITCHGEAR.
  - ALL CONDUIT FURNISHED AND INSTALLED BY CONTRACTOR.
  - ALL WIRING FURNISHED BY TESLA AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE. SEE SHEET E-100 FOR UTILITY/CONTRACTOR SCOPE OF WORK.
  - THE TESLA PROVIDED SUPERCHARGER CABINETS AND SUPERCHARGER POSTS USED ON THIS PROJECT COMPLY WITH THE FOLLOWING STANDARDS:
    - TUV CERTIFIED TO UL 2202
  - ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.
  - REFER TO THIS SHEET FOR FAULT CURRENT CALCULATIONS. CONTRACTOR SHALL MARK ON ALL EQUIPMENT AS REQUIRED PER N.E.C.
  - REFER TO SHEET E-301 FOR ARC FLASH LABEL DETAILS. CONTRACTOR SHALL LABEL ALL EQUIPMENT AS REQUIRED PER N.E.C.

FEEDER / CIRCUIT SCHEDULE	
NO	CONFIGURATION
1	(6) SETS OF 4" CONDUIT EACH WITH (3) 500 MCM AI (1) 500 MCM AI NEUT
2	(2) SETS OF 4" CONDUIT EACH WITH (3) 500 MCM AI (1) 500 MCM AI NEUT (1) #1 AWG Cu GND OR #2/0 AWG AI GND
3	(1) SET IN 4" CONDUIT (DURALINE IS ACCEPTABLE) WITH (4) 600 MCM AI (TWO +, TWO -) (1) #2/0 AWG Cu GND (1) SIGNAL CABLE BUNDLE (PROVIDED BY TESLA)
4	FACTORY INSTALLED WIRING
5	OUTDOOR RATED/SHIELDED CAT5e OR CAT6 COMMUNICATION CABLE IN 1" CONDUIT.
6	(2) SETS OF 3" CONDUIT EACH WITH (2) 600 MCM AI (ONE +, ONE -) (2) #3/0 AWG AI DC MID (1) #1/0 AWG Cu GND
7	(1) SET IN 1" CONDUIT WITH (1) #10 AWG Cu (THWN-2) (1) #1 AWG Cu NEUT (THWN-2) (1) #10 AWG Cu GND (THWN-2)

- NOTES:**
- ALL AC CONDUCTORS SHALL BE XHHW-2, 600V RATED, U.N.O.
  - ALL DC CONDUCTORS SHALL BE XHHW-2, 1000V RATED, U.N.O.
  - SEE "RACEWAY AND BOXES" NOTES ON SHEET E-001 FOR CONDUIT USE TYPES FOR ABOVE AND BELOW GRADE APPLICATIONS
  - DURALINE PRODUCT WILL BE USED FOR "DC-POST" CONDUIT RUN ONLY.
  - FOR APPROVED COPPER/ALUMINUM EQUIPMENT GROUNDING CONDUCTOR EQUIVALENTS, SEE TABLE BELOW. ALL ALUMINUM EQUIPMENT GROUND CONDUCTORS SHALL BE TERMINATED IN OUTDOOR ENCLOSURES LISTED AND IDENTIFIED FOR THE ENVIRONMENT PER NEC 2020, ARTICLE 250.64(A)(2)

PANEL 'MDP-1'					
STATUS:	NEW	VOLTAGE:	480Y/277 3Ø 4W	RATED FAULT CURRENT:	65 kAIC
LOCATION:	OUTDOOR	MAINS RATING (AMPS):	1600 100% RATED	RATING TYPE:	FULLY RATED
SUPPLY:	UTILITY XFMR	BUS RATING (AMPS):	1600 100% RATED	MOUNTING:	PAD
ENCLOSURE:	NEMA 3R	MAINS:	MCB	SERVICE ENTRANCE RATED:	YES
				ISOLATED GROUND BAR:	NO

CKT #	DESCRIPTION	LOAD	AMPS/POLES	TOTAL PER PHASE (kVA)			AMPS/POLES	LOAD	DESCRIPTION	CKT #
				A	B	C				
1	TESLA SUPERCHARGER CABINET	129.00	600/3	258.00			129.00	TESLA SUPERCHARGER CABINET	2	
3	TESLA SUPERCHARGER CABINET	129.00	600/3		258.00		129.00	TESLA SUPERCHARGER CABINET	4	
5	TESLA SUPERCHARGER CABINET	129.00	600/3			258.00	129.00	TESLA SUPERCHARGER CABINET	6	
7	TESLA SUPERCHARGER CABINET	129.00	600/3	129.00			0.00	SPACE	8	
9	TESLA SUPERCHARGER CABINET	129.00	600/3		129.00		0.00	SPACE	10	
11	TESLA SUPERCHARGER CABINET	129.00	600/3			129.00	0.00	SPACE	12	
13	SPACE	0.00		0.00			0.00	SPACE	14	
15	SPACE	0.00			0.00		0.00	SPACE	16	
17	SPACE	0.00				0.00	0.00	SPACE	18	
19	SPACE	0.00		0.00			0.00	SPACE	20	
21	SPACE	0.00			0.00		0.00	SPACE	22	
23	SPACE	0.00				0.00	0.00	SPACE	24	
25	SPACE	0.00		0.00			0.00	SPACE	26	
27	SPACE	0.00			0.00		0.00	SPACE	28	
29	SPACE	0.00				0.00	0.00	SPACE	30	
31	SPACE	0.00		0.00			0.00	SPACE	32	
33	SPACE	0.00			0.00		0.00	SPACE	34	
35	SPACE	0.00				0.00	0.00	SPACE	36	
37	LED LIGHT POLE	0.28	15/1	0.28			0.00	SPACE	38	
39	TESLA SITE CONTROLLER	0.10	15/2		0.10		0.00	SPACE	40	
41	TESLA SITE CONTROLLER	0.10	15/2			0.10	0.00	SPACE	42	
TOTAL kVA				387.28	387.10	387.10	TOTAL CONN kVA 1161.48			
TOTAL AMPS				1398.12	1397.47	1397.47	TOTAL CONN AMPS 1397.04			
% UNBALANCE				0.0%	0.0%	0.0%				

- PANEL BOARD NOTES**
- CIRCUITS SHALL BE REARRANGED AS REQUIRED TO MAINTAIN THE MOST BALANCED LOADS ON EACH PHASE WITHIN EACH PANEL. PROVIDE TYPED PANEL DIRECTORY MOUNTED PER MANUFACTURER'S RECOMMENDATIONS WITH SERVICE EQUIPMENT.
  - OCBP FOR POWER CABINETS ARE CALCULATED AS FOLLOWS: 465A AC INPUT TO CABINET x 1.25 = 581.25A ~ 600A BRANCH REQUIRED
  - CONTRACTOR SHALL COORDINATE WITH THE POWER COMPANY TO DETERMINE MAXIMUM SHORT CIRCUIT AMPS (SCA), AND PROVIDE CALCULATIONS IN ORDER TO PROVIDE PROPERLY RATED EQUIPMENT. PROVIDE LABELS ON ELECTRICAL EQUIPMENT PER NEC 110.16 AND LOCAL JURISDICTION REQUIREMENTS.
  - PER NEC 230.42(A)(1) EXCEPTION 2: THE SUM OF THE TOTAL CONNECTED LOADS (NON-CONTINUOUS LOAD PLUS THE CONTINUOUS LOAD) TERMINATE IN AN OVERCURRENT DEVICE WHERE BOTH THE OVERCURRENT DEVICE AND ITS ASSEMBLY ARE LISTED FOR OPERATION AT 100% OF THEIR RATING, SIZED PER CONNECTED LOAD.

AVAILABLE FAULT CURRENT (AMPS)	
1	60,138
2	57,261
3	54,260

NOTE: FAULT CURRENT CALCULATIONS PERFORMED USING INFINITE BUS CALCULATION WITH AN ASSUMED 1500KVA TRANSFORMER WITH AN IMPEDANCE OF 3%.

USE	SIZE	BREAKER SETTINGS						INST	GROUND FAULT PICKUP	GROUND FAULT DELAY
		LONG TIME CURVE	LONG TIME PICKUP	LONG TIME DELAY	SHORT TIME PICKUP	SHORT TIME DELAY				
MCB - EATON SB BKR	1600A	X	0.9 (1,440A)	10	3	0.2 (FLAT)	15	0.4	0.5 (FLAT)	
MCB - GE SS BKR	1600A	I <sup>2</sup> T	0.9 (1,440A)	C-4	2	0.7 (SLOPE: OFF)	15	0.4	13 (SLOPE: OFF)	
BRANCH CIRCUIT - EATON	600A	X	X	X	X	X	5	X	X	
BRANCH CIRCUIT - GE	600A	X	X	X	X	X	MIN	X	X	

NOTE: CONTRACTOR SHALL VERIFY BREAKER MAKE/MODEL AND SET PER THE ABOVE TABLE. NOTIFY TESLA IMMEDIATELY OF ANY DISCREPANCIES.

TESLA SUPERCHARGER CABINET AND POST ELECTRICAL SPECS							
CHARGE POST MODEL	AC INPUT VOLTAGE TO CABINET	kVA INPUT TO CABINET	AC INPUT CURRENT TO CABINET	DC OUTPUT VOLTAGE TO CHARGE POST	DC OUTPUT CURRENT TO CHARGE POST	DC SHARED BUS CURRENT	SHORT CIRCUIT CURRENT RATING
V4	380V - 480V	387kVA	465A	0V - 500V	615A	640A	85 kAIC

AMPERE RATING OR SETTING OF OCPD IN CIRCUIT AHEAD OF EQUIPMENT	MINIMUM EQUIPMENT GROUNDING CONDUCTOR SIZE	
	COPPER SIZE	ALUMINUM SIZE
15	12	12
20	12	10
60	10	8
100	8	6
200	6	4
300	4	2
400	3	1
500	2	1/0
600	1	2/0
800	1/0	3/0
1000	2/0	4/0
1200	3/0	250
1600	4/0	350
2000	250	400
2500	350	600
3000	400	600
4000	500	750

**TESLA**  
3500 DEER CREEK RD.  
PALO ALTO, CA 94304  
(650) 681-5000

**GPD GROUP**  
Professional Corporation  
520 South Main Street, Suite 2531  
Akron, OH 44311  
330.572.2100 Fax 330.572.2101

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PRCNC20231632  
PRCNC20231632

**STEVEN P. SCHUB**  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
10/10/24  
EXPIRES 02/03/2026

**TESLA SUPERCHARGER STATION**  
3310 S MERIDIAN ST. (TESLA SUPERCHARGER)  
PUYALLUP, WA 98373

PROJECT MANAGER: IM  
DESIGNER: CPC

JOB NO.  
**2023241.47**

**E-201**

SINGLE LINE DIAGRAM & PANEL SCHEDULE

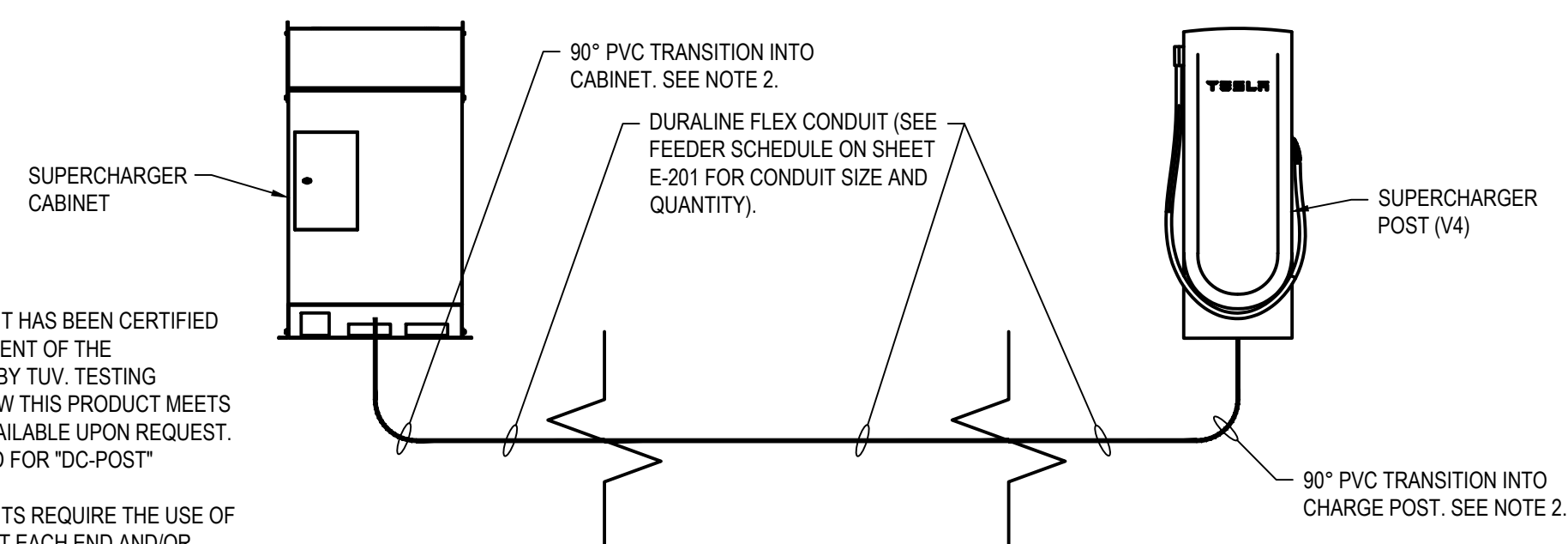
1

2

3

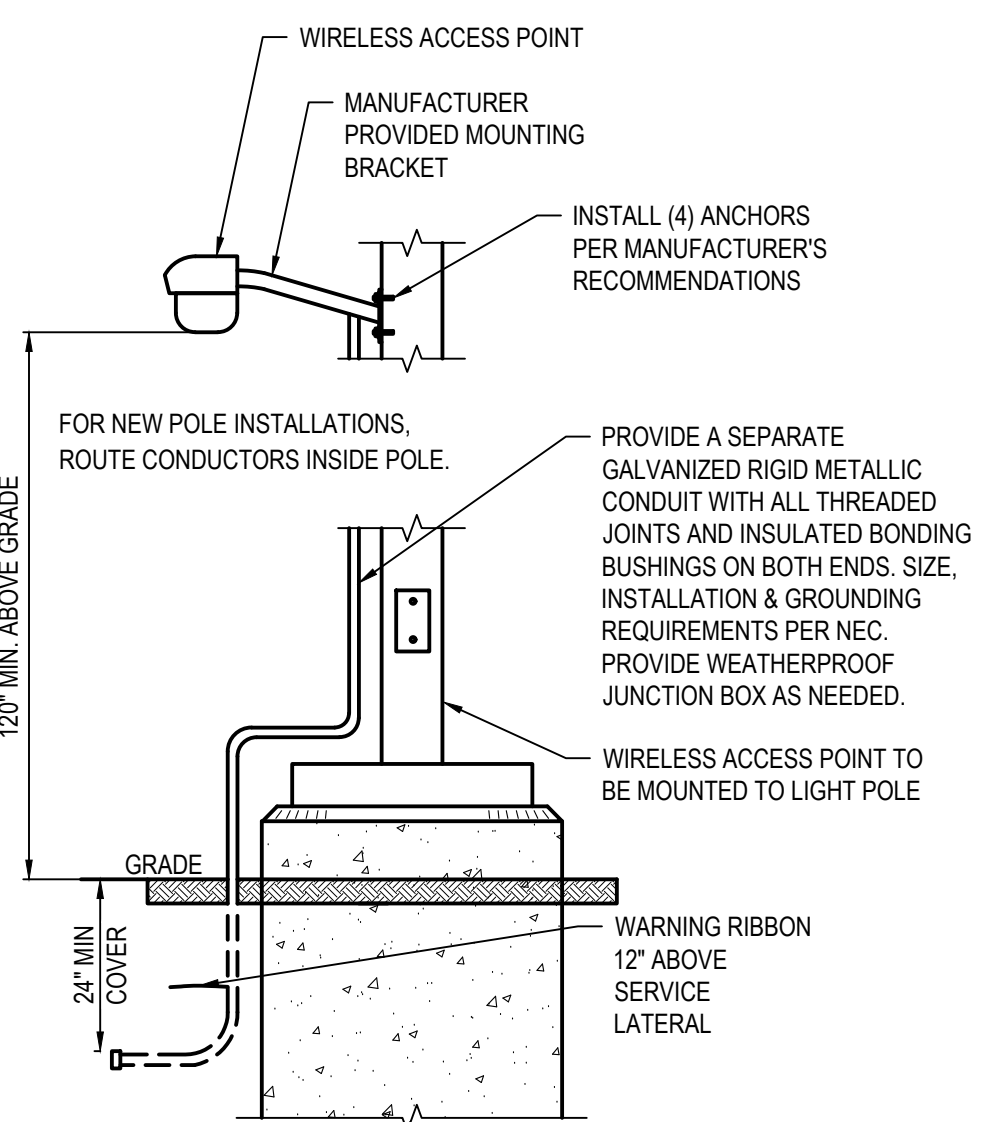
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5

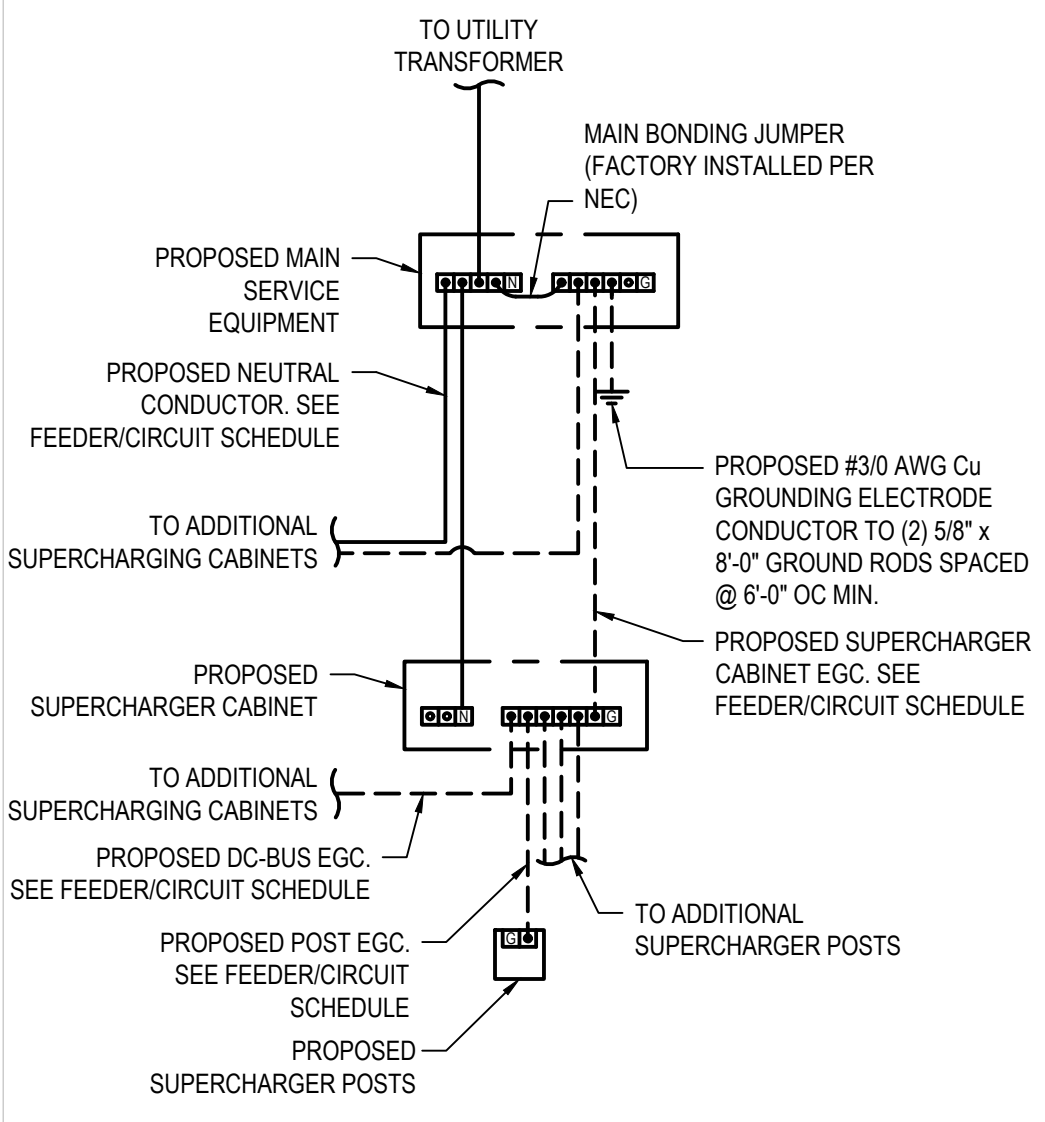


- NOTES**
- DURALINE FLEX CONDUIT HAS BEEN CERTIFIED AS A CRITICAL COMPONENT OF THE SUPERCHARGER POST BY TUV. TESTING REPORTS SHOWING HOW THIS PRODUCT MEETS UL STANDARDS ARE AVAILABLE UPON REQUEST. PRODUCT WILL BE USED FOR "DC-POST" CONDUIT RUN ONLY.
  - DURALINE FLEX CONDUITS REQUIRE THE USE OF 90° PVC TRANSITIONS AT EACH END AND/OR HARD BENDS. CONTRACTOR TO SUPPLY PVC TRANSITIONS TO TESLA EQUIPMENT.

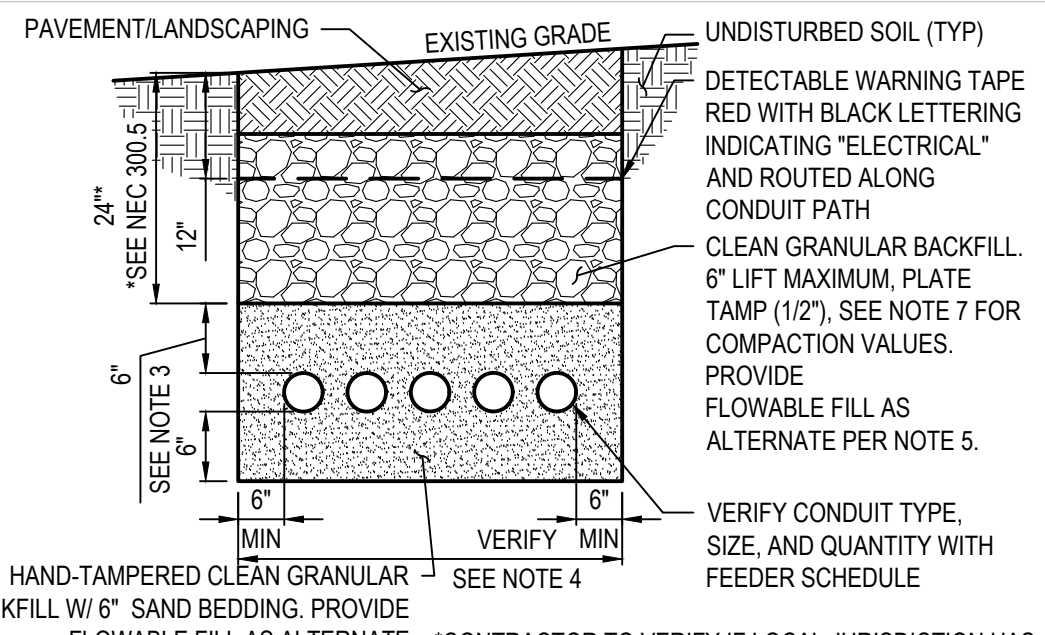
**C-1** DURALINE TO PVC TRANSITION  
N.T.S.



**C-3** WIRELESS ACCESS POINT ON LIGHT POLE  
N.T.S.

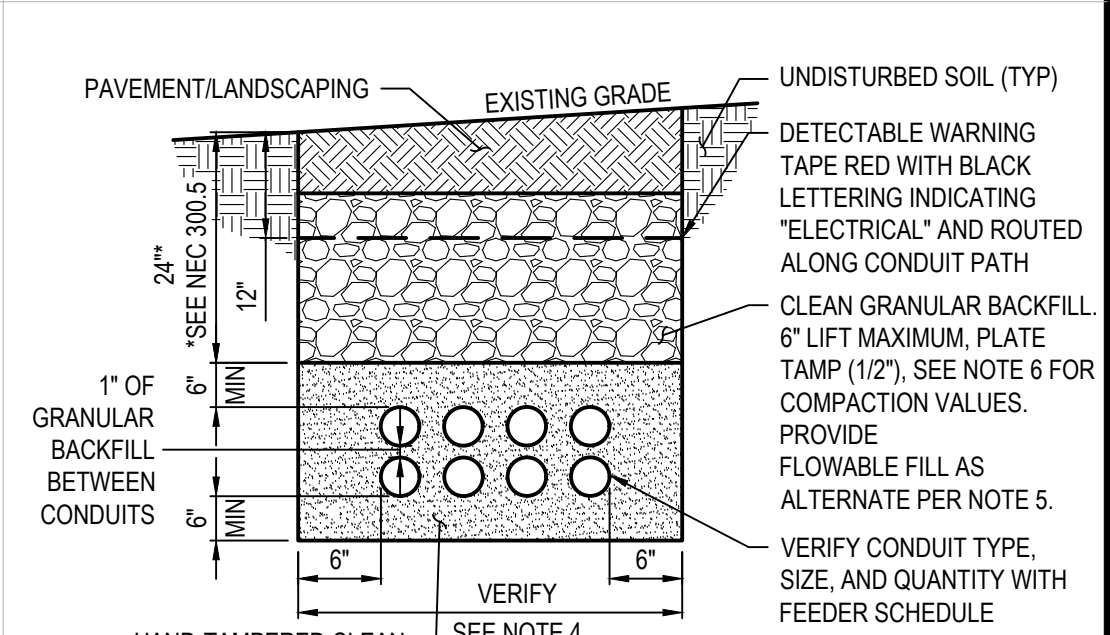


**C-5** TYPICAL GROUNDING DIAGRAM  
N.T.S.



- ANY EXCAVATION LEFT OPEN SHOULD BE SECURELY FENCED OFF. ALL TRENCHING SHALL BE ACCORDING TO THE LATEST OSHA STANDARDS.
- ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
- CONTRACTOR SHALL INSTALL CONDUITS AT A MINIMUM OF 30" BELOW GRADE. SHOULD FIELD CONDITIONS VARY, CONTRACTOR SHALL COORDINATE WITH CONTACT ENGINEER LISTED ON SHEET C-001.
- VERIFY WIDTH OF TRENCH REQUIRED. REFER TO SITE ELECTRICAL DRAWING FOR APPROXIMATE ROUTING.
- THE CONTRACTOR SHALL FURNISH FLOWABLE FILL WITH A 28 DAY COMPRESSIVE STRENGTH RANGING FROM 50 PSI TO 100 PSI PER THE STATE DEPARTMENT OF TRANSPORTATION'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION, LATEST REVISION.
- DC BUS CONDUITS ARE NOT TO BE STACKED UNDER ANY CIRCUMSTANCES.
- BACKFILL SHALL BE COMPACTED AND TESTED PER ASTM D4253 AND D4254 TO 80% RELATIVE DENSITY IN PAVEMENT AREAS AND 70% RELATIVE DENSITY IN LANDSCAPING AREAS.

**B-4** DC BUS CIRCUIT TRENCH  
N.T.S.

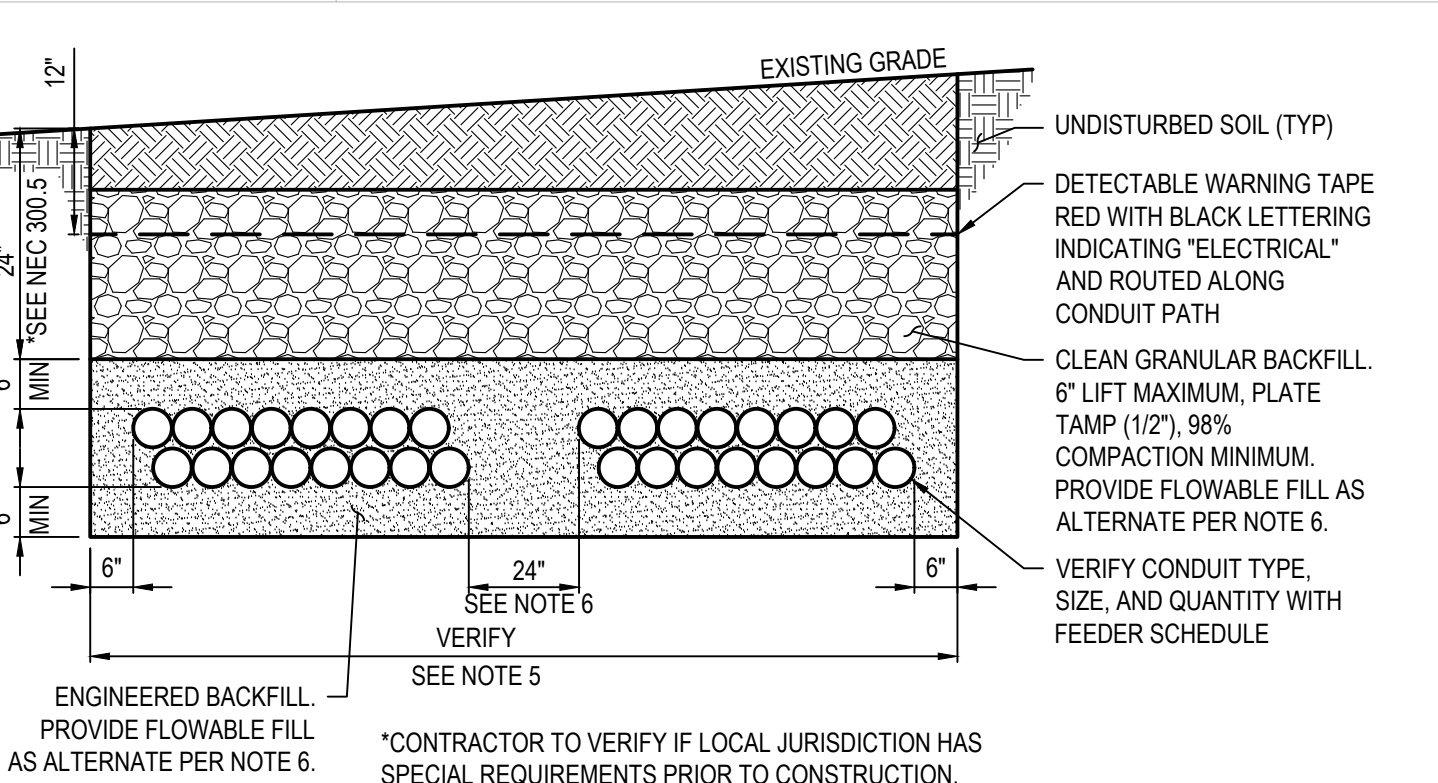


- ANY EXCAVATION LEFT OPEN SHOULD BE SECURELY FENCED OFF.
- ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
- CONTRACTOR SHALL INSTALL CONDUITS AT A MINIMUM OF 30" BELOW GRADE. SHOULD FIELD CONDITIONS VARY, CONTRACTOR SHALL COORDINATE WITH CONTACT ENGINEER LISTED ON SHEET C-001.
- VERIFY WIDTH OF TRENCH REQUIRED. REFER TO SITE ELECTRICAL DRAWING ON SHEET E-101 FOR ROUTING.
- THE CONTRACTOR SHALL FURNISH FLOWABLE FILL WITH A 28 DAY COMPRESSIVE STRENGTH RANGING FROM 50 PSI TO 100 PSI PER THE STATE DEPARTMENT OF TRANSPORTATION'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION, LATEST REVISION.
- BACKFILL SHALL BE COMPACTED AND TESTED PER ASTM D4253 AND D4254 TO 80% RELATIVE DENSITY IN PAVEMENT AREAS AND 70% RELATIVE DENSITY IN LANDSCAPING AREAS.

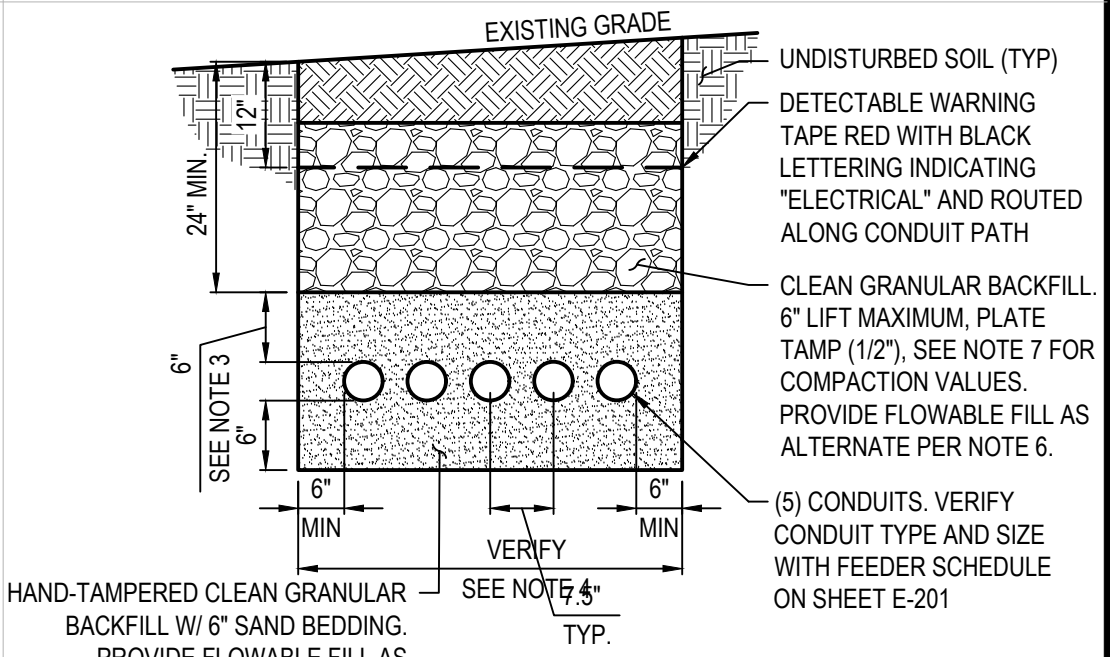
**B-5** TYPICAL FEEDER TRENCH  
N.T.S.

**NOTES**

- DUCT BANK DESIGNED AND CERTIFIED BY TESLA. SEE NOTE 6 FOR ADDITIONAL INFORMATION. TRENCHES WITH UP TO 16 DC POST CONDUITS MAY BE INSTALLED WITH NO CONDUIT SPACING. ENGINEERED BACKFILL WITH A RHO VALUE LESS THAN 100 MUST BE USED FOR BACKFILL. TRENCHES WITH MORE THAN 16 DC POST CONDUITS MUST INCLUDE A 24" SEPARATION BETWEEN CONDUIT GROUPS OF NOT MORE THAN 16 CONDUITS. GROUPINGS OF 4 OR FEWER DC POST CONDUITS MAY BE INSTALLED WITHOUT ENGINEERED BACKFILL. THIS CONDUIT CONFIGURATION HAS NOT BEEN REVIEWED BY THE STAMPING PARTY. THEREFORE, THE STAMPING PARTY SHALL NOT BE HELD LIABLE FOR ITS USE. ANY RELIANCE ON THIS DETAIL SHALL BE AT THE RELYING PARTY(IES)'S OWN RISK AND HEREBY WAIVES ANY AND ALL CLAIM(S) RELATED TO THE EXISTENCE OF THE STAMP OR OTHERWISE.
- ANY EXCAVATION LEFT OPEN SHOULD BE SECURELY FENCED OFF. ALL TRENCHING SHALL BE ACCORDING TO THE LATEST OSHA STANDARDS.
- ANY PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
- CONTRACTOR SHALL PROVIDE ADDITIONAL SLACK IN CONDUCTORS AND CONDUIT EXPANSION JOINTS IN ORDER TO ALLOW FOR GROUND MOVEMENT FROM SETTLEMENT, FROST, ETC. IN ORDER TO PREVENT DAMAGE TO THE CONDUCTORS OR TO THE EQUIPMENT CONNECTED TO THE TRENCH PER THE NEC. SHOULD FIELD CONDITIONS VARY OR CONFLICTS OCCUR, CONTRACTOR SHALL COORDINATE WITH TESLA CONTACT LISTED ON SHEET C-001.
- FIELD VERIFY WIDTH OF TRENCH REQUIRED. REFER TO SITE ELECTRICAL DRAWING FOR ROUTING.
- CONTRACTOR SHALL FURNISH FLOWABLE FILL WITH A 28 DAY COMPRESSIVE STRENGTH RANGING FROM 50 PSI TO 100 PSI PER THE STATE DEPARTMENT OF TRANSPORTATION'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION, LATEST REVISION.
- THIS DETAIL REQUIRED FOR USE WITH 350MCM AI DC CONDUCTORS ONLY. WHEN INSTALLING LARGER DC CONDUCTORS, USE REQUIREMENTS DETAILED IN TYPICAL TRENCH DETAIL, THIS SHEET.



**A-3** DC POST CONDUIT TRENCH  
N.T.S.



- ANY EXCAVATION LEFT OPEN SHOULD BE SECURELY FENCED OFF.
- ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
- CONTRACTOR SHALL INSTALL CONDUITS AT A MINIMUM OF 30" BELOW GRADE. SHOULD FIELD CONDITIONS VARY, CONTRACTOR SHALL COORDINATE WITH CONTACT ENGINEER LISTED ON SHEET C-001.
- VERIFY WIDTH OF TRENCH REQUIRED. REFER TO SITE ELECTRICAL DRAWING ON SHEET E-101 FOR ROUTING.
- VERIFY ALL REQUIREMENTS WITH POWER COMPANY.
- THE CONTRACTOR SHALL FURNISH FLOWABLE FILL WITH A 28 DAY COMPRESSIVE STRENGTH RANGING FROM 50 PSI TO 100 PSI PER THE STATE DEPARTMENT OF TRANSPORTATION'S CONSTRUCTION AND MATERIAL SPECIFICATIONS, CURRENT EDITION, LATEST REVISION.
- BACKFILL SHALL BE COMPACTED AND TESTED PER ASTM D4253 AND D4254 TO 80% RELATIVE DENSITY IN PAVEMENT AREAS AND 70% RELATIVE DENSITY IN LANDSCAPING AREAS.

**A-5** SECONDARY FEEDER TRENCH  
N.T.S.

**⚠ DANGER**

**NO SAFE PPE EXISTS**

**ENERGIZED WORK PROHIBITED**

401 in 18 in PPE 480 VAC 00 42 in 12 in	Arc Flash Boundary Working Distance DO NOT WORK ON LIVE! Shock Risk when cover is removed Glove Class Limited Approach Restricted Approach
-----------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>Location:</b>	<b>MAIN SWBD - LINE-SIDE</b>
V4 TESLA SUPERCHARGER - Puyallup, WA - 1600A MCB	
<b>TESLA</b> (3) V4 CABINETS & (12) POSTS 3310 S MERIDIAN ST. PUYALLUP, WA 98373	
TRT27473	PREPARED ON: 10-9-24 By: EOR

Warning: Changes in equipment settings or system configuration will invalidate the calculated values and PPE requirements

**⚠ WARNING**

**Arc Flash and Shock Risk**

**Appropriate PPE Required**

33 in 18 in PPE 480 VAC 00 42 in 12 in 8 cal/cm <sup>2</sup>	Arc Flash Boundary Working distance Cat 2 Shock Risk when cover is removed Glove Class Limited Approach Restricted Approach Minimum Arc Rating
-----------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------

<b>Location:</b>	<b>SUPERCHARGER</b>
V4 TESLA SUPERCHARGER - Puyallup, WA - 1600A MCB	
<b>TESLA</b> (3) V4 CABINETS & (12) POSTS 3310 S MERIDIAN ST. PUYALLUP, WA 98373	
TRT27473	PREPARED ON: 10-9-24 By: EOR

Warning: Changes in equipment settings or system configuration will invalidate the calculated values and PPE requirements

- NOTES:**
- FOR ANY QUESTIONS OR CLARIFICATIONS REGARDING LABELS, CONTACT TESLA.
  - ARC FLASH INCIDENT ENERGY ANALYSIS COMPLETED PER NFPA 70E 2024.
  - ARC FLASH CALCULATIONS PER IEEE 1584, 2018.
  - LABELS SHALL BE PRINTED WITH PERMANENT INK ON WEATHERPROOF LABELS WITH SELF STICKING ADHESIVE.
  - INSTALL LABELS PER NEC SECTION 110.16.
  - FOR EACH SWITCHGEAR SECTION, CONTRACTOR SHALL PROVIDE (1) APPLICABLE LABEL ON EXTERIOR DOOR AND (1) APPLICABLE LABEL ON INTERIOR FRONT PANEL SECTION. CONTRACTOR SHALL FIELD VERIFY SPECIFIC LOCATION FOR LABEL PLACEMENT(S).
  - CONTRACTOR SHALL PROVIDE LABELS WITH ANY ADDITIONAL INFORMATION AS REQUIRED BY LOCAL JURISDICTION, STATE AND FEDERAL CODES AND LAWS.

**A-1** ARC FLASH LABELS  
N.T.S.

City of Puyallup  
Development & Permitting Services  
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

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

**GPD GROUP**  
Professional Corporation

520 South Main Street, Suite 2531  
Akron, OH 44311  
330.572.2100 Fax 330.572.2101

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PRCNC20231632

PRCNC20231632

STEVEN P. SCHAUB  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
10/10/24  
EXPIRES 02/03/2026

**TESLA SUPERCHARGER STATION**  
3310 S MERIDIAN ST. (TESLA SUPERCHARGER)  
PUYALLUP, WA 98373

PROJECT MANAGER	DESIGNER
IM	CPC

JOB NO.  
2023241.47

E-301

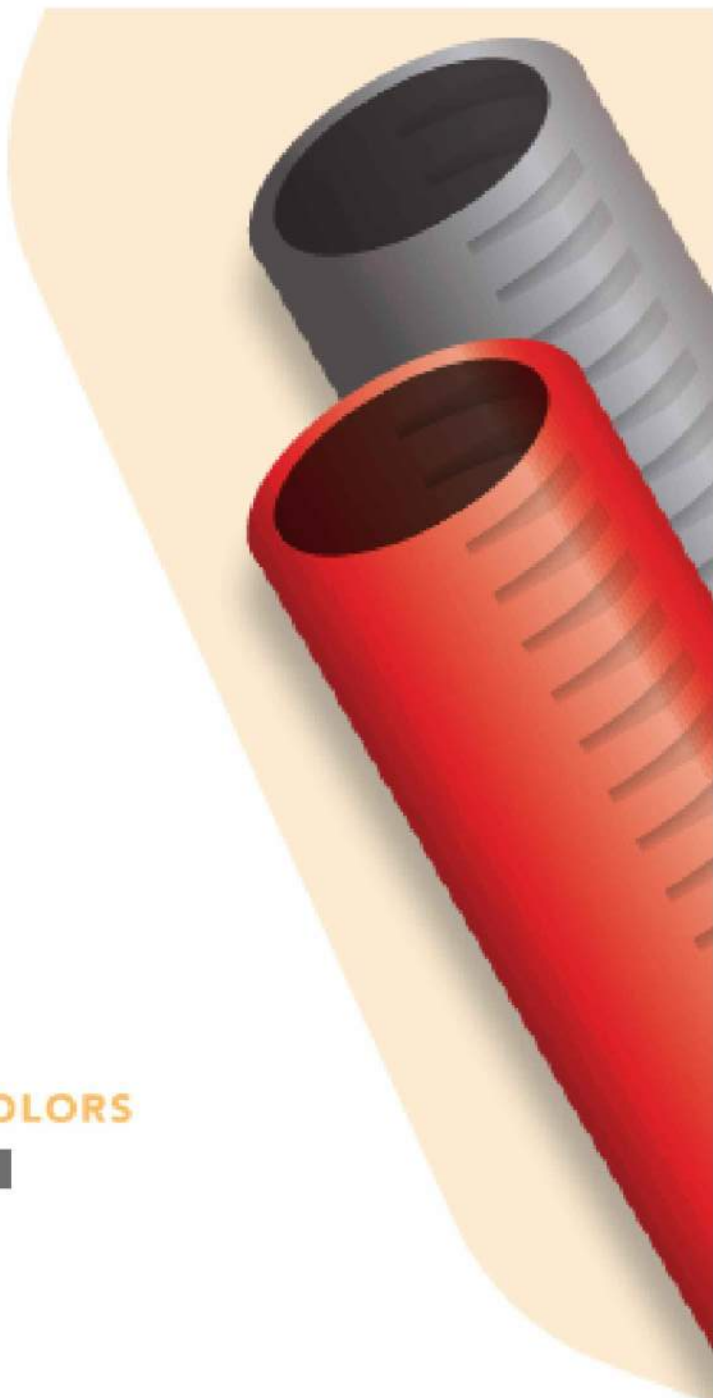
ELECTRICAL DETAILS



**SPECIALTY**

# SMOOTH-COR FLEX

- ▶ **Flexible:** Reduces/eliminates the need for sweeps and bends
- ▶ **Crush resistant:** Equivalent to Schedule 40 PVC
- ▶ **Lightweight:** Easier installation, 40% lighter than PVC
- ▶ **Compatibility:** Easily adapts to other conduit materials
- ▶ **Glueless coupling:** Safe, quick assembly
- ▶ **Gasketed:** Air- and water-tight
- ▶ **Low COF:** Longer cable pulls with lower cable stress



**INSTALLATION TYPES**

Underground  
Direct Bury  
Concrete Encasement

**SIZE RANGE AVAILABLE**

2"  
3"  
4"

**STANDARD COLORS**

Outer Wall: ■ ■ ■  
Inner Wall: ■

**STANDARD**

**DETAILS** Manufactured from flexible HDPE (High Density Polyethylene)

**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. Smooth-Cor Flex HDPE conduit is designed for conductors rated at 90 °C (194 °F) and 105 °C (221 °F), in accordance with the US National Electrical Code (NEC, NFPA 70). It complies with Articles 353 for High Density Polyethylene (HDPE) Conduit and 354 for Nonmetallic Underground Conduit with Conductors (NUCC).

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

**CO-EXTRUDED LINING** Corrugated exterior with a semi-smooth, co-extruded inner layer to aid in cable installation vs. single wall corrugated duct

**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.

**OPTIONS**

**PACKAGING** Available on steel reels or 250' coils

**COIL PACKAGING FOR SMOOTH-COR FLEX**

SIZE	LENGTH	WEIGHT/COIL (LBS)	COILS/PALLET	PALLETS/TRUCK	QTY/TRUCKLOAD	RED PART #	GREY PART #
2"	250'	55	3	26	19,500	20000670	20004695
3"	250'	108	3	20	15,000	20000671	20004696
4"	250'	142	3	9	6,750	20000672	20004732

**REEL PACKAGING FOR SMOOTH-COR FLEX**

SIZE	LENGTH	REEL SIZE	RED PART #	GREY PART #
2"	3,600	96 x 45	20005462	20005607
3"	1,840	96 x 45	20005463	20005608
4"	900	96 x 45	20005464	20005609

**TECHNICAL SPECIFICATIONS FOR SMOOTH-COR FLEX**

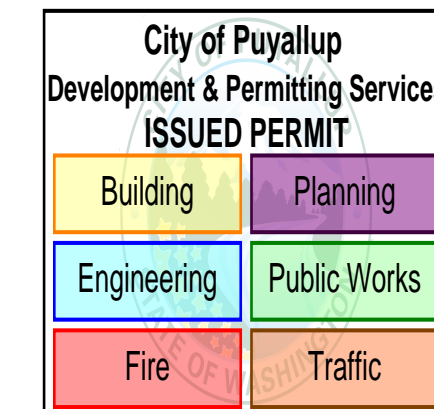
LENGTH	250' COILS
Pipe Stiffness	ASTM D 2412 2' 75 LBS/IN/IN 3' 88 LBS/IN/IN 4' 116 LBS/IN/IN
Impact Resistance per Falling Tap	ASTM D 2444 45-50 FT-LB @ 72 degrees 40 FT-LB @ 32 degrees
Coupler Water & Air Tight	ASTM D 3212 10 psi

**TECHNICAL SPECIFICATIONS FOR SMOOTH-COR FLEX**

PRODUCT	DUAL WALL	A I.D.	B O.D.	C TOTAL WIDTH	INNER WALL THICKNESS	OUTER WALL THICKNESS	BEND RADIUS (IN)
	2"	2.045" 51.943mm	2.495" 63.373mm	0.325" 8.255mm	0.020" ± 0.010" 0.508mm ± 0.254mm	0.023" ± 0.007" 0.584mm ± 0.178mm	9
	3"	2.950" 74.930mm	3.510" 89.154mm	0.360" 9.144mm	0.027" ± 0.010" 0.686mm ± 0.254mm	0.033" ± 0.007" 0.838mm ± 0.178mm	13
	4"	3.980" 101.092mm	4.730" 120.142mm	0.650" 16.510mm	0.027" ± 0.010" 0.686mm ± 0.254mm	0.033" ± 0.007" 0.838mm ± 0.178mm	16

**MATERIAL DESIGNATION**

TEST METHOD	DESCRIPTION	VALUES
ASTM D 3350	HDPE Resin Cell Classification	334480 C or E
ASTM D 638	Tensile strength at yield	3000 PSI Min
ASTM D 638	% Ultimate Elongation Value	400 Min
ASTM D 792	Density g/cm3	0.941 - 0.959
ASTM D 1238	Melt Index, g/10 min Condition E	0.5 Max
ASTM D 1693	ESCR Condition B, F10	96 hrs.



An Orbia Connectivity Solutions business.

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WWW.DURALINE.COM



DL.SMOOTH-COR-FLEX-7.24 US



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+1 800 847 7661  
WWW.DURALINE.COM



DL.SMOOTH-COR-FLEX-7.24 US

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PRCNC20231632

FOR REFERENCE ONLY

TESLA SUPERCHARGER STATION  
3310 S MERIDIAN ST. (TESLA SUPERCHARGER)  
PUYALLUP, WA 98373

CONDUIT SPECIFICATIONS

PROJECT MANAGER	DESIGNER
IM	CPC

JOB NO.  
2023241.47

E-401



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PALO ALTO, CA 94304  
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