





Site coordinated by:

Clark

Land Services, Inc.

177 S. Tiffany Dr.

Pueblo West, Co. 81007

719.633.8533

www.clarks.com

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.

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.

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.

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. 8712230393.

5A

Easement Agreement 05/03/1991 Book: 681 Page: 3172  
-IS NOT LOCATED ON THE SURVEY AREA.

6A

Easement Deed 07/28/1992 Book: 796 Page: 1291  
-IS NOT LOCATED ON THE SURVEY AREA.

7A

Easement 05/27/1991 Book: 714 Page: 2279  
-IS NOT LOCATED ON THE SURVEY AREA.

8A

Easement Deed 07/20/1994 Book: 1044 Page: 1952  
-IS NOT LOCATED ON THE SURVEY AREA.

9A

Maintenance Agreement 07/27/1994 Book: 1046 Page: 1005  
-IS NOT LOCATED ON THE SURVEY AREA.

10A

Easement Agreement 10/03/1994 Book: 1065 Page: 2595  
-IS NOT LOCATED ON THE SURVEY AREA.

11A

Easement Agreement 10/03/1994 Book: 1065 Page: 2602  
-IS NOT LOCATED ON THE SURVEY AREA.

12A

Easement Agreement 03/17/1995 Book: 1106 Page: 1627  
-MAY BE LOCATED ON THE SURVEY AREA, INSUFFICIENT MATHEMATICAL DESCRIPTION.

13A

Easement for Underground Electric System 11/01/1995 Book: 1170 Page: 282  
-IS NOT LOCATED ON THE SURVEY AREA.

14A

Amendment to Easement 07/20/1994 Book: 1270 Page: 1482  
-IS NOT LOCATED ON THE SURVEY AREA.

15A

Amendment to Easement Agreement 10/01/1996 Book: 1270 Page: 1494  
-IS LOCATED ON THE SURVEY AREA, AS SHOWN HEREON.

16A

Declaration of Easements, Covenants and Conditions 07/19/1999 Document No. 9907190771  
-IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.

17A

Easement for Underground Electric System 11/13/1987 Book: 457 Page: 2916  
-IS LOCATED ON THE SURVEY AREA, AS SHOWN HEREON.

18A

Memorandum of Agreement 04/17/1989 Book: 539 Page: 1950  
-IS LOCATED ON THE SURVEY AREA, AS SHOWN HEREON.

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.

2B

Amendment to Easement 10/01/1996 Book: 1270 Page: 1530  
-IS NOT LOCATED ON THE SURVEY AREA.

3B

Second Amendment to Easement Agreement 04/28/2003 Document No. 200304280865  
-IS NOT LOCATED ON THE SURVEY AREA.

4B

Easement Agreement 05/08/1991 Book: 681 Page: 3172  
-IS NOT LOCATED ON THE SURVEY AREA.

5B

Easement Deed 07/28/1992 Book: 796 Page: 1291  
-IS NOT LOCATED ON THE SURVEY AREA.

6B

Easement 09/27/1991 Book: 714 Page: 2279  
-IS NOT LOCATED ON THE SURVEY AREA.

7B

Easement Deed 07/20/1994 Book: 1044 Page: 1952  
-IS NOT LOCATED ON THE SURVEY AREA.

8B

Maintenance Agreement 07/27/1994 Book: 1046 Page: 1005  
-IS NOT LOCATED ON THE SURVEY AREA.

9B

Easement Agreement 10/03/1994 Book: 1065 Page: 2595  
-IS NOT LOCATED ON THE SURVEY AREA.

10B

Easement Agreement 10/03/1994 Book: 1065 Page: 2602  
-IS NOT LOCATED ON THE SURVEY AREA.

11B

Easement Agreement 03/17/1995 Book: 1106 Page: 1627  
-MAY BE LOCATED ON THE SURVEY AREA, INSUFFICIENT MATHEMATICAL DESCRIPTION.

12B

Easement for Underground Electric System 11/01/1995 Book: 1170 Page: 282  
-IS NOT LOCATED ON THE SURVEY AREA.

13B

Amendment to Easement 07/20/1994 Book: 1270 Page: 1482  
-IS NOT LOCATED ON THE SURVEY AREA.

14B

Amendment to Easement Agreement 10/01/1996 Book: 1270 Page: 1494  
-IS LOCATED ON THE SURVEY AREA, AS SHOWN HEREON.

15B

Declaration of Easements, Covenants and Conditions 07/19/1999 Document No. 9907190771  
-IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.

16B

Declaration of Covenants, Conditions and Restrictions 07/19/1999 Document No. 9907190772  
-IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE.

17B

Water Utility Easement 03/06/2019 Document No. 201903060135  
-IS NOT LOCATED ON THE SURVEY AREA.

18B

Easement 09/17/2021 Document No. 202109170921  
-IS NOT LOCATED ON THE SURVEY AREA.

19B

Memorandum of Agreement 04/17/1989 Book: 539 Page: 1950  
-IS LOCATED ON THE SURVEY AREA, AS SHOWN HEREON.

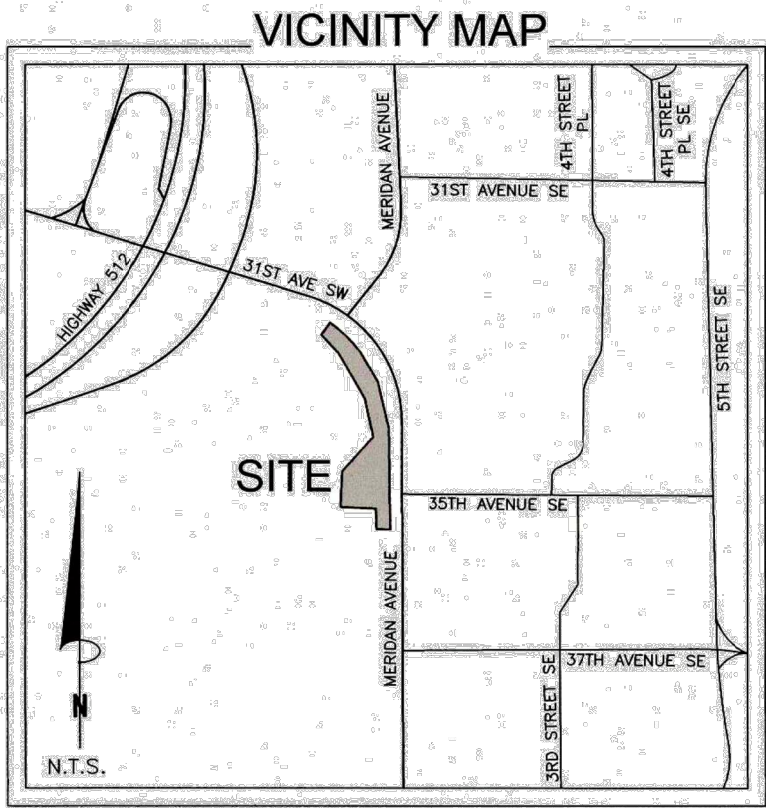
20B

South Hill, Phase I 05/28/1993 Book: 891 Page: 3852  
-IS LOCATED ON THE SURVEY AREA, BLANKET IN NATURE AND AS SHOWN HEREON.

21B

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 rotated 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 FIRMeTte published April 12, 2023, referencing Flood Insurance Rate Map, Map Number 53053C0341E, 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:

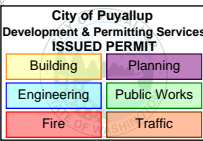
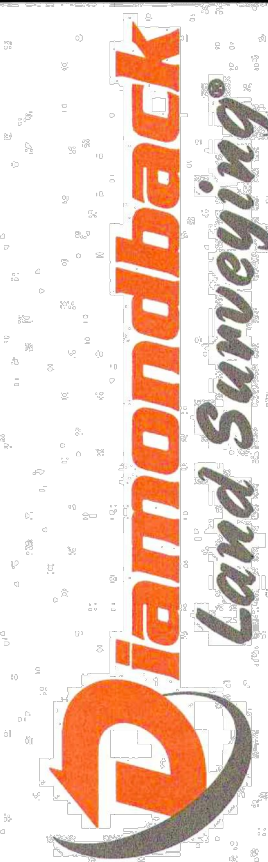
No apparent areas of concern.

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. 49281



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

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

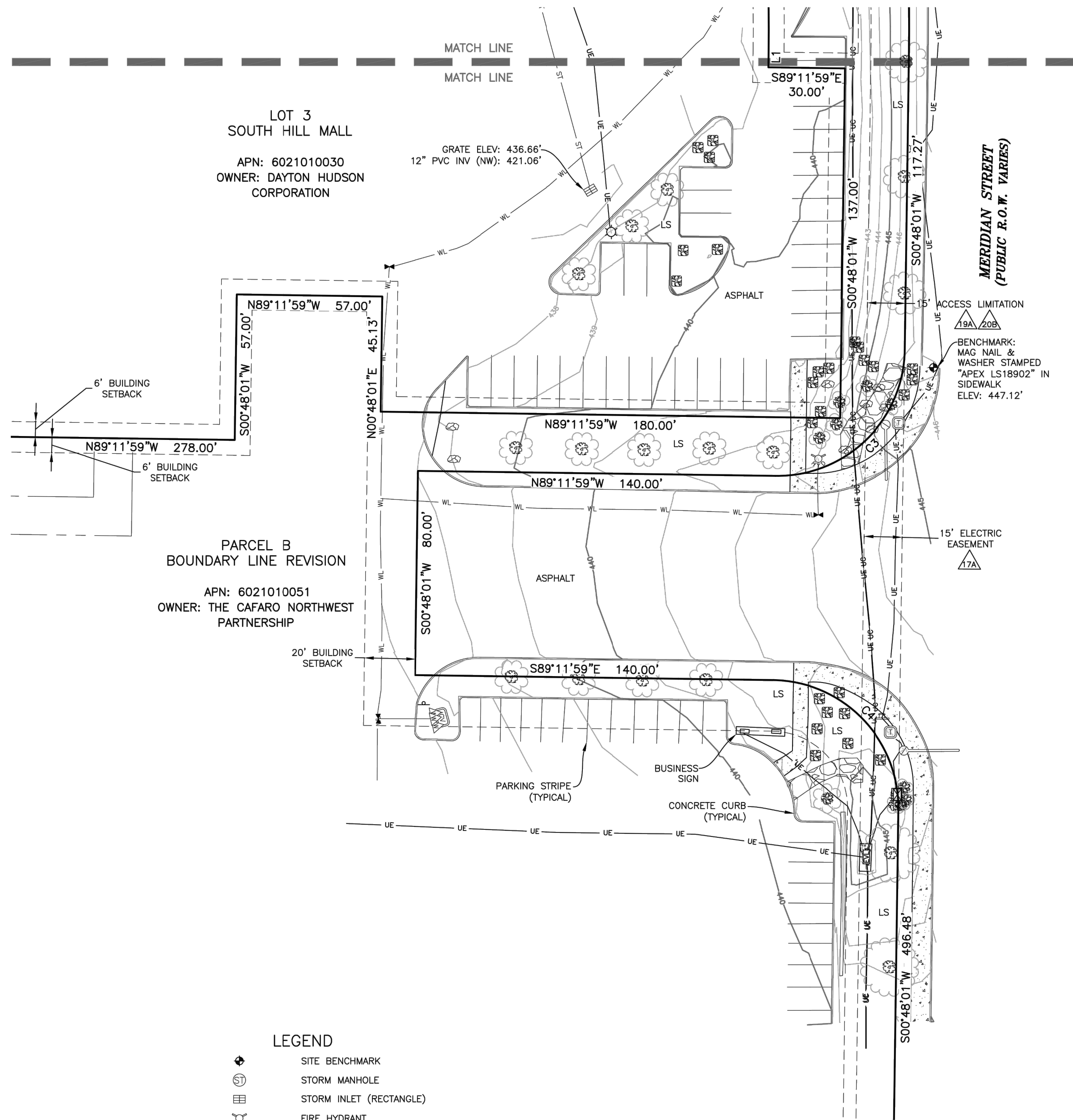
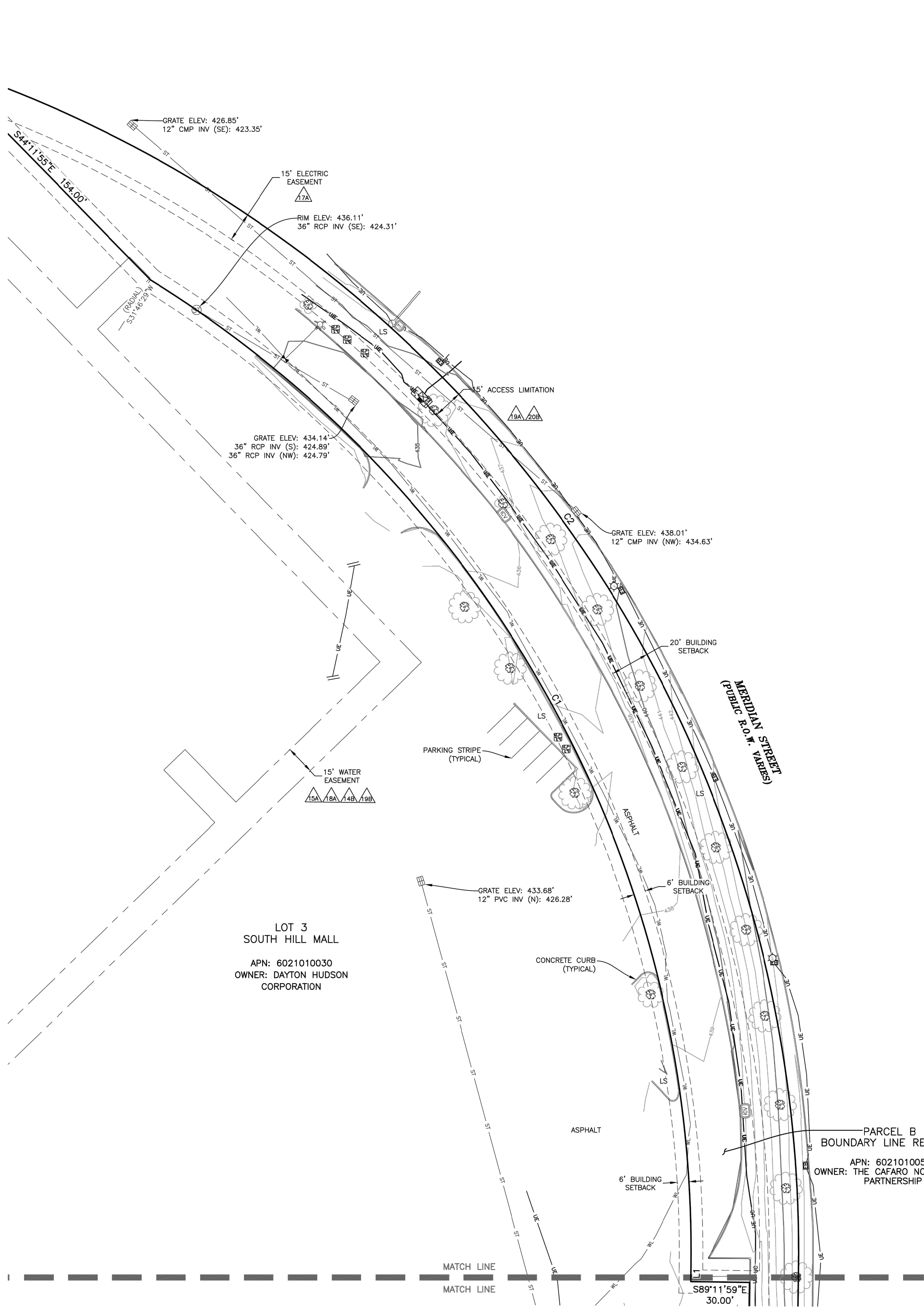
Drawn By: NRS  
Checked By: TJK

Date: 4/21/2023  
Sheet 1 of 2

SITE NAME:

Puyallup, WA - S Meridian





- 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
  - STORM LINE (UNDERGROUND)
  - WATER LINE (UNDERGROUND)
  - ELECTRIC LINE (UNDERGROUND)
  - COMMUNICATION LINE (UNDERGROUND)
  - CONCRETE AREA
  - RIP-RAP AREA
  - EXCEPTION NUMBER

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"

FOR REFERENCE ONLY  
NOT TO SCALE

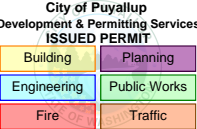
ENGINEERING DESIGN SURVEY

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 Date: 4/21/2023  
Checked By: TJK Sheet 2 of 2

SITE NAME:  
Puyallup, WA - S Meridian

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





Drawing Name: O:20230202241M7 - TRT 27473 - South Hill Mall (Target) Puyallup, WAking02241.47 - Puyallup, WA - S&S PSU.dwg  
January 17, 2025 7:49 AM - kball

The approved construction plans, documents, and all engineering must be posted on the job at all inspections in a visible and readily accessible location.

**Full sized legible color plans** are required to be provided by the permittee on site for inspection.

Approval of submitted plans is not an approval of omissions or oversights by this office or non compliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable codes and regulations of the local government.

Separate Electrical Permit is required with the Washington State Department of Labor & Industries.  
<https://lni.wa.gov/licensing-permits/electrical/electrical-permits-fees-and-inspections> or call for Licensing Information: 1-800-647-0982

City of Puyallup  
Building  
REVIEWED  
FOR  
COMPLIANCE

SKinnear  
01/30/2025  
4:37:41 PM



### 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</sup> / <sub>32</sub> , 49 <sup>3</sup> / <sub>8</sub> , 86 <sup>20</sup> / <sub>32</sub> 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)	Rated AC Input Power	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					
	Mfr. Termination Temp. Rating	90°C					
DC Post Output (Electrical)	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>					
	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

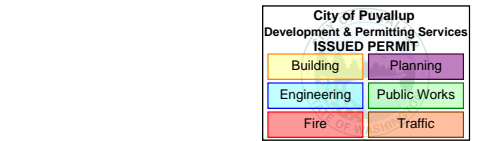
### V4 Supercharger Post Technical Specifications

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
Environmental	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
	Operating Temperature	-30°C to 50°C
	Ingress Protection	IP54 / NEMA 3R
Mechanical	Flood Tolerance	1015 mm
	Maximum Noise Level @ 1m	60 dBA below 40°C, 65 dBA above 40°C
	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 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 ILL COMMENTS
2	12/30/2024	ADDRESSED TESLA COMMENTS
3	01/17/2025	ADDRESSED TESLA COMMENTS

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




Drawing Name: C:2023020224147 - TRT 27473 - South Hill Mall (Targos) Puyallup, WA\Wing\202241 47 - Puyallup, WA - S&S PSU.dwg  
January 17, 2025 7:49 AM - kbaal

1	2	3	4	5																																														
<div>DEFINITIONS</div> <div>FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:</div> <div>OWNER: TESLA PROPERTY OWNER: DAYTON HUDSON CORPORATION</div> <div>GENERAL CONSTRUCTION NOTES</div> <div>1. THE TOPOGRAPHIC SURVEY BY OTHERS SHALL BE REFERENCED WITH THESE PLANS. THE G.C. IS RESPONSIBLE FOR LOCATING PROPOSED IMPROVEMENTS PER THESE PLANS.</div> <div>2. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THE PLAN ARE BASED ON FIELD SURVEYS. DUE TO THE LIMITATIONS IN TECHNOLOGY AND GROUND CONDITIONS, NOT ALL UNDERGROUND UTILITIES ARE ABLE TO BE LOCATED. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE.</div> <div>3. ALL PROPERTY LINES, RIGHT OF WAYS, CENTERLINES, DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON A TOPOGRAPHIC SURVEY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY CONSTRUCTION/PROJECT MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.</div> <div>4. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AND NOTIFY THE DESIGN PROFESSIONAL IN CHARGE FOR THE OWNER OF ANY DISCREPANCIES. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS SHALL BE CORRECTED AT THE CONTRACTOR'S SOLE EXPENSE.</div> <div>5. CONTRACTOR INITIATED CHANGES SHALL BE SUBMITTED IN WRITING TO THE OWNER FOR APPROVAL BEFORE MAKING ANY CHANGES. DEVIATION FROM PLANS BEFORE WRITTEN APPROVAL FROM OWNER PLACES LIABILITY ON THE CONTRACTOR.</div> <div>6. UNLESS OTHERWISE NOTED, ALL SURFACES SHALL BE PATCHED AND PAINTED AROUND THE PROPOSED IMPROVEMENTS TO MATCH EXISTING FINISHES.</div> <div>7. APPROVALS FROM BUILDING INSPECTORS SHALL NOT CONSTITUTE AUTHORITY TO DEVIATE FROM THE DRAWINGS.</div> <div>8. THE GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE ARRANGEMENTS FOR THE PROPOSED SCOPE OF WORK. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD DOCUMENTS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.</div> <div>9. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. 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 WORK.</div> <div>10. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND FEDERAL, STATE AND LOCAL JURISDICTION CODES, ORDINANCES AND APPLICABLE REGULATIONS.</div> <div>11. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.</div> <div>12. 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 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 JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.</div> <div>13. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.</div> <div>14. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE OWNER PRIOR TO PROCEEDING.</div> <div>15. THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.</div> <div>16. CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.</div> <div>17. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.</div> <div>18. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE PROPERTY OWNER.</div> <div>19. THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.</div> <div>20. THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.</div> <div>21. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION. 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. GRAFFITI ON TEMPORARY FENCING SHALL BE PAINTED OVER WITHIN ONE DAY OF DISCOVERY. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.</div> <div>22. 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.</div> <div>23. 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 CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. THE 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 &amp; EXCAVATION.</div>	<div>24. ONLY ITEMS SPECIFICALLY CALLED OUT TO BE REMOVED OR DEMOLISHED SHALL BE AFFECTED. ANY ITEMS INCLUDING, BUT NOT LIMITED TO, CURBS, PAVEMENT, UTILITY ITEMS, LANDSCAPING, ETC. SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE ANY AFFECTED ITEMS AT OWNERS DISCRETION.</div> <div>25. 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 OWNER AND/OR LOCAL UTILITIES.</div> <div>26. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.</div> <div>27. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE EPA AND FEDERAL, STATE, LOCAL JURISDICTIONS FOR EROSION AND SEDIMENT CONTROL. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ALL TIMES.</div> <div>28. 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.</div> <div>29. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 98 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT, SIDEWALKS, STRUCTURES AND OPEN SPACES. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.</div> <div>30. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.</div> <div>31. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE OWNER AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.</div> <div>32. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE OWNER UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.</div> <div>33. AT THE END OF EACH WORK DAY AND FINAL TURNOVER TO OWNER, THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS IN A LAWFUL MANNER AND LEAVE PREMISES IN A CLEAN CONDITION. CONTRACTOR SHALL REMOVE ANY METAL SHAVING FROM WORK SITE WHERE OXIDIZED OR CONDUCTIVE SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUITS, OR OTHER DAMAGE.</div> <div>34. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR AND OWNER IMMEDIATELY.</div> <div>35. CONTRACTOR IS RESPONSIBLE FOR CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS.</div> <div>36. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE CONTRACTOR.</div> <div>37. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE STAKEHOLDER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.</div> <div>38. GRANULAR BACKFILL: SHALL MEET THE FOLLOWING GRADATION PER THE TABLE BELOW:<table><tr><th>SIEVE SIZE</th><th>TOTAL PERCENT PASSING</th></tr><tr><td>1-1/2" (37.50 MM)</td><td>100</td></tr><tr><td>1" (25.00 MM)</td><td>75 TO 100</td></tr><tr><td>3/4" (19.00 MM)</td><td>80 TO 100</td></tr><tr><td>3/8" (9.50 MM)</td><td>35 TO 75</td></tr><tr><td>No. 4 (4.75 MM)</td><td>30 TO 60</td></tr><tr><td>No. 30 (0.60 MM)</td><td>7 TO 30</td></tr><tr><td>No. 200 (0.75 MM)</td><td>3 TO 15</td></tr></table></div> <div>39. GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SW-SM).</div> <div>40. UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTICS SILTS AND CLAYS (LL&gt;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 CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.</div> <div>41. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS.</div> <div>42. NO STRUCTURAL ELEMENTS ARE TO BE CUT UNLESS OTHERWISE SPECIFICALLY APPROVED BY THE ENGINEER.</div> <div>PAVEMENT MARKING NOTES</div> <div>1. ALL PAVEMENT MARKINGS TO MATCH EXISTING CONDITIONS, UNLESS STATED OTHERWISE. ALL PAVEMENT MARKINGS WITHIN ADA AREAS SHALL BE PAINTED BLUE EXCEPT FOR COLORS DEFINED ON THE ADA PAVEMENT SYMBOL OR WHERE LOCAL AHJ CODE DICTATES OTHERWISE.</div> <div>2. MARKING (STRIPING) PAINT FOR PARKING SPACES, TRAFFIC ARROWS, ADA PARKING AND SYMBOLS, ETC., PER LOCAL REQUIREMENTS AND AS FOLLOWS:</div> <div>3. PAVEMENT MARKINGS PAINT SHALL BE WATER BASE FAST DRYING 100% ACRYLIC TYPE: WATER BASE TO MEET FEDERAL SPECIFICATION TTP-01952B. FOR COLD WEATHER APPLICATION PAINT PRODUCT SHALL BE IN ACCORDANCE WITH ASTM-D2369, D1394, D3273, D1475, D562 AND D711.</div> <div>4. PROVIDE A NON-SLIP AGGREGATE ADDITIVE TO MARKING PAINT USED AT ADA ACCESS RAMPS.</div> <div>5. APPLY 2 COATS WITHIN THE SAME DAY, UTILIZING STRAIGHT EDGES, YELLOW ON CONCRETE/WHITE ON ASPHALT EXCEPT WHEN MATCHING ADJACENT OR EXISTING COLOR WHEN THE PAVING IS AN EXPANSION OR SEGMENT OF A LARGER LOT.</div>	SIEVE SIZE	TOTAL PERCENT PASSING	1-1/2" (37.50 MM)	100	1" (25.00 MM)	75 TO 100	3/4" (19.00 MM)	80 TO 100	3/8" (9.50 MM)	35 TO 75	No. 4 (4.75 MM)	30 TO 60	No. 30 (0.60 MM)	7 TO 30	No. 200 (0.75 MM)	3 TO 15	<div>GENERAL FOUNDATION NOTES</div> <div>1. THE CONTRACTOR SHALL RETAIN AN OWNER APPROVED AND QUALIFIED SOILS ENGINEER REGISTERED WITHIN THE STATE TO MAKE GEOTECHNICAL RECOMMENDATIONS BASED ON FIELD CONDITIONS, AND ENSURE THAT ALL SHORING AND DEWATERING MEANS AND METHODS WILL NOT COMPROMISE THE STABILITY OF EXISTING OR PROPOSED FOOTINGS/FOUNDATIONS. THE OWNER SHALL RECEIVE COMPACTION REPORTS PREPARED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER, VERIFYING THAT ALL FILLED AREAS AND SUBGRADE AREAS HAVE BEEN COMPACTED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH BY SAID GEOTECHNICAL ENGINEER. NOTIFY PROJECT CONSTRUCTION MANAGER IF ANY UNSUITABLE SOILS ARE FOUND.</div> <div>2. AT A MINIMUM ALL FILLED AND SUBGRADE AREAS SHALL BE COMPACTED TO 98% OF STANDARD PROCTOR MAXIMUM DRY DENSITY PER A.S.T.M TEST D-698. MOISTURE CONTENT AT TIME OF PLACEMENT SHALL NOT EXCEED 2% ABOVE NOR 2% BELOW OPTIMUM.</div> <div>3. DETERMINATION OF FINAL BEARING ELEVATIONS, TOPSOIL AND EXCAVATION STRIPPING DEPTH, INSPECTION OF ALL SUBSOIL EXPOSED DURING STRIPPING, SITE GRADING, EXCAVATION OPERATIONS, APPROVAL OF FILL MATERIALS, DENSITY TESTING OF FILLS TO ENSURE PLACEMENT PER SPECIFICATION REQUIREMENTS, INSPECTION OF FOUNDATION BEARING SURFACES, AND VERIFICATION OF ALLOWABLE BEARING PRESSURES ARE THE TESTING LABORATORY'S RESPONSIBILITY.</div> <div>4. ALL FOUNDATIONS ARE TO REST ON FIRM UNDISTURBED SOIL OR COMPACTED FILL FREE FROM ORGANIC MATTER. IF POOR SOIL CONDITIONS ARE ENCOUNTERED AT FOUNDATION DEPTHS SHOWN, NOTIFY OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH CONSTRUCTION.</div> <div>5. CONTRACTOR SHALL COMPACT SUBGRADE. SEE FROST/NO FROST DESIGN NOTES THIS SHEET.</div> <div>6. FOUNDATIONS HAVE BEEN DESIGNED BASED ON AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 1500 PSF UNLESS NOTED OTHERWISE.</div> <div>7. NEW FOOTINGS PLACED ADJACENT TO EXISTING FOOTINGS SHALL BEAR AT THE SAME ELEVATION, UNLESS NOTED OTHERWISE.</div> <div>8. STEP FOOTINGS AT A RATIO OF ONE (1) VERTICAL TO TWO (2) HORIZONTAL WITH A MAXIMUM VERTICAL STEP OF 2'-0" UNLESS NOTED OTHERWISE.</div> <div>9. INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES, WHICH WILL RESULT IN DETERIORATION OF BEARING FORMATIONS, SHALL BE PREVENTED. FOOTINGS SHALL BE PLACED IMMEDIATELY FOLLOWING FOOTING EXCAVATIONS AND BEARING SURFACE INSPECTION.</div> <div>10. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.</div> <div>11. GROUNDWATER ASSUMED TO BE BELOW EXCAVATION DEPTH. IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION ON SITE, CONTRACTOR SHALL PROVIDE FOR ANY SITE DRAINAGE AND DE-WATERING REQUIRED.</div> <div>12. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING PUBLIC AND PRIVATE UTILITIES PRIOR TO EXCAVATION. IF NECESSARY, UTILITIES SHALL BE RELOCATED PRIOR TO FOUNDATION INSTALLATION.</div> <div>FROST DESIGN NOTES</div> <div>(BOTTOM OF FOUNDATIONS ABOVE FROST LEVEL)</div> <div>1. CONCRETE FOUNDATIONS SHOULD BEAR DIRECTLY ON A PROPERLY COMPACTED FREE-DRAINING GRANULAR FILL CONSISTING OF NO. 57 STONE OR AN APPROVED EQUIVALENT.</div> <div>2. GRANULAR FILL SHOULD EXTEND VERTICALLY TO THE MINIMUM RECOMMENDED REGIONAL FROST DEPTH AND LATERALLY 2/3RD FROM THE FOUNDATION PERIMETER (EXCLUDING SIDE OF PERIMETER ADJACENT TO CURB). GRANULAR FILL SHOULD BE PLACED IN 8 INCH LOOSE LIFTS AND COMPACTED WITH A VIBRATORY COMPACTOR. THE COMPACTION EQUIPMENT SHOULD BE OPERATED OVER THE FULL WIDTH OF THE FOUNDATION UNDERCUT AREA UNTIL VISIBLE DEFORMATION OF THE BACKFILL CEASES. LOCAL FROST DEPTH IS LISTED ON SHEET C-001. CONTRACTOR SHALL VERIFY LOCAL FROST DEPTH WITH AHJ PRIOR TO CONSTRUCTION.</div> <div>3. GEOTEXTILE (FILTER FABRIC) SHOULD BE PLACED BETWEEN THE GRANULAR BACKFILL AND COHESIVE SOILS TO PRECLUDE THE INFILTRATION OF FINES. SPEC AS FOLLOWS:<div>SEPARATION GEOTEXTILE: WOVEN GEOTEXTILE FABRIC, MANUFACTURED FOR SEPARATION APPLICATIONS, MADE FROM POLYOLEFINS OR POLYESTERS, WITH ELONGATION LESS THAN 50PERCENT; COMPLYING WITH AASHTO M228 AND THE FOLLOWING, MEASURED PER TEST METHODS REFERENCED:<div>SURVIVABILITY: CLASS 2, AASHTO M228 GRAB TENSILE STRENGTH: 247 LBF (1100N) ASTM D 4632 SEWN SEAM STRENGTH: 222 LBF (990N) ASTM D 4632 TEAR STRENGTH: 90 LBF (400N) ASTM D 4533 PUNCTURE STRENGTH: 90 LBF (400N) ASTM D 4833 APPARENT OPENING SIZE: NO. 60 (0.250MM) SIEVE, MAXIMUM ASTM D751. PERMITTIVITY: 0.02 PER SECOND, MINIMUM ASTM D491. UV STABILITY: 50PERCENT AFTER 500 HOURS' EXPOSURE; ASTM D 4355</div></div></div> <div>NO FROST DESIGN NOTES</div> <div>(BOTTOM OF FOUNDATIONS BELOW FROST LEVEL)</div> <div>1. CONCRETE FOUNDATIONS SHOULD BE SUPPORTED ON A 6 INCH COMPACTED LAYER OF APPROVED FREE-DRAINING GRANULAR MATERIAL.</div> <div>2. APPROVED MATERIAL SHOULD BE COMPACTED OVER THE FULL WIDTH OF THE INFILL AREA UNTIL VISIBLE DEFORMATION OF THE BACKFILL CEASES.</div> <div>SPECIAL INSPECTIONS</div> <div>THE CLIENT SHALL BE RESPONSIBLE FOR SCHEDULING AND OVERSEEING OF ALL SPECIAL INSPECTIONS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. SPECIAL INSPECTIONS MUST BE COMPLETED PRIOR TO FINAL INSPECTION APPROVAL.</div>	<div>CONCRETE</div> <div>1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 301-16, "STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE" AND ACI 302, 305 AND 306 UNLESS NOTED OTHERWISE.</div> <div>2. ALL DETAILING, FABRICATION AND PLACING OF CONCRETE SHALL CONFORM TO ACI 318-14, "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND THE LATEST ACI "MANUAL OF STANDARD PRACTICE FOR DETAIL REINFORCED CONCRETE STRUCTURES" UNLESS NOTED OTHERWISE.</div> <div>3. SAFETY AND PERFORMANCE OF THE STRUCTURE ARE THE RESPONSIBILITY OF THE CONTRACTOR INsofar AS THEY ARE AFFECTED BY THE LOCATION AND DETAILS OF CONSTRUCTION JOINTS. SHOP DRAWINGS OF THE PROPOSED CONSTRUCTION JOINT LOCATIONS AND DETAILS ARE TO BE SUBMITTED TO THE ARCHITECT FOR APPROVAL.</div> <div>4. MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.</div> <div>5. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH IN 28 DAYS AS FOLLOWS: ALL CONCRETE - 4500 PSI. ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 6% (+/- 1%) AIR ENTRAINMENT.</div> <div>6. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.</div> <div>7. WELDED WIRE FABRIC REINFORCING SHALL CONFORM TO ASTM A1064 AND BE FURNISHED IN FLAT SHEETS AND INSTALLED ON CHAIRS OR PRECAST CONCRETE BLOCKS.</div> <div>8. NO TACK WELDING OF REINFORCING IN THE FIELD IS PERMITTED.</div> <div>9. PROVIDE CORNER BARS AT ALL LOCATIONS WHERE REINFORCEMENT CHANGES DIRECTION.</div> <div>10. PROVIDE STRAIGHT AND DIAGONAL BARS AT EDGES OF ALL OPENINGS. REINFORCING EMBEDMENT AND LAP SPLICES (INCHES) FOR 4500 PSI CONCRETE.</div> <table><tr><th colspan="3">OTHER</th><th colspan="2">TOP*</th></tr><tr><th>BAR SIZE</th><th>ANCHORAGE</th><th>SPLICE</th><th>ANCHORAGE</th><th>SPLICE</th></tr><tr><td>#3</td><td>15</td><td>19</td><td>19</td><td>24</td></tr><tr><td>#4</td><td>19</td><td>25</td><td>25</td><td>33</td></tr><tr><td>#5</td><td>24</td><td>31</td><td>31</td><td>41</td></tr><tr><td>#6</td><td>29</td><td>37</td><td>37</td><td>49</td></tr></table> <div>*HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE BELOW BAR</div> <div>11. NON-SHRINK GROUT SHALL MEET A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 6000 PSI.</div> <div>12. ADD 100% TIES FOR REBAR OVERLAY. NO COLD JOINTS SHALL BE PERMITTED DURING CONSTRUCTION.</div> <div>STRUCTURAL STEEL</div> <div>1. MATERIAL PROPERTIES:<div>PLATE: ASTM A36 UNO PIPE: ASTM A53, TYPE E OR S, GRADE TUBE: ASTM A1085 GRADE A (Fy = 50 KSI) WIDE FLANGE: ASTM A992 (Fy = 50 KSI)</div></div> <div>2. DETAILING, FABRICATION, AND ERECTION SHALL CONFORM TO THE 2016 AISC (360-16) SPECIFICATIONS.</div> <div>3. ALL WELDING SHALL BE DONE USING E-70XX ELECTRODES IN ACCORDANCE WITH AWS D1.1 SPECIFICATIONS.</div> <div>4. FIELD VERIFY ALL CONDITIONS AT AND CONNECTIONS TO THE EXISTING CONSTRUCTION BEFORE FABRICATION.</div> <div>5. ALL EXPOSED STRUCTURAL STEEL, ANCHOR RODS AND BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM A123.</div> <div>6. UNLESS NOTED OTHERWISE ON THE DRAWING, ALL ANCHOR RODS SHALL CONFORM TO ASTM F1554 Gr 55 WITH HEAVY HEXAGONAL NUT.</div> <div>7. SUBMIT FABRICATION AND ERECTION DRAWINGS SHOWING ALL DETAILS, CONNECTIONS, MATERIAL DESIGNATIONS, AND TOP STEEL ELEVATIONS FOR APPROVAL. THE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL CONFORMANCE TO THE CONTRACT DRAWINGS. SUCH APPROVAL SHALL NOT RELIEVE THE FABRICATOR/CONTRACTOR OF THE RESPONSIBILITY FOR EITHER THE ACCURACY OF THE DETAILED DIMENSIONS IN THE SHOP AND ERECTION DRAWINGS OR THE GENERAL FIT-UP OF PARTS THAT ARE TO BE ASSEMBLED IN THE FIELD.</div> <div>TRAFFIC CONTROL NOTES</div> <div>1. DURING THE CONSTRUCTION PERIOD: SIDEWALKS, SHOULDERS, TRAVEL LANE(S), OR STREETS MAY HAVE TO BE TEMPORARILY CLOSED OR RESTRICTED FOR THE UNLOADING /LOADING OF EQUIPMENT OR AS A RESULT OF CONSTRUCTION ACTIVITIES THEMSELVES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE DIRECTLY WITH THE LOCAL GOVERNING AUTHORITIES ON ANY SUCH CLOSURES AND MUST OBTAIN WRITTEN PERMISSION FROM THE APPROPRIATE AUTHORITIES PRIOR TO IMPLEMENTING SUCH CLOSURES OR RESTRICTIONS. ANY CLOSURE OR RESTRICTION MUST COMPLY WITH THE STATE MANUAL OF UNIFORM CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS (LATEST EDITION AND REVISION), AND WITH ANY AND ALL ADDITIONAL APPLICABLE CITY, VILLAGE, OR COUNTY REQUIREMENTS. THE CONTRACTOR SHALL PREPARE AND SUBMIT A FORMAL TRAFFIC CONTROL / MOT PLAN TO THE LOCAL GOVERNING AUTHORITIES IF REQUESTED. ALL REQUIRED CONSTRUCTION TRAFFIC MAINTENANCE DEVICES SHALL BE PROVIDED, ERECTED AND MAINTAINED, AND ULTIMATELY REMOVED BY THE CONTRACTOR.</div> <div>2. THE CONTRACTOR SHALL MAINTAIN SAFE AND SATISFACTORY ACCESS TO ALL ABUTTING PROPERTIES AND INTERSECTING STREET AT ALL TIMES DURING THE CONSTRUCTION OF THE IMPROVEMENTS ANTICIPATED. DRIVEWAYS MUST BE MAINTAINED AND ALL TRENCHES SHALL BE BACKFILLED AT THE END OF EACH WORK DAY. PER THE STATE MUTCD AND OTHER APPLICABLE APPROPRIATE GOVERNING REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFEGUARDS SUCH AS BARRICADES, SATISFACTORY BARRIERS, CONES, SIGNAGE, BARRELS, MESSAGE BOARDS, LIGHTING, FLAGMEN, LAW ENFORCEMENT OFFICERS, ETC. TO AVOID DAMAGE AND / OR INJURY TO VEHICLES AND PERSONS TRAVERSING THE CONSTRUCTION AREA.</div>	OTHER			TOP*		BAR SIZE	ANCHORAGE	SPLICE	ANCHORAGE	SPLICE	#3	15	19	19	24	#4	19	25	25	33	#5	24	31	31	41	#6	29	37	37	49	<div>LANDSCAPE NOTES</div> <div>GENERAL</div> <div>1. LANDSCAPE WORK SHALL BE ACCORDING TO THE WORKMANLIKE STANDARDS ESTABLISHED FOR LANDSCAPE CONSTRUCTION AND PLANNING IN THE STANDARDIZED LANDSCAPE SPECIFICATIONS (ASLA) AND ANY LOCAL LANDSCAPE ORDINANCE.</div> <div>2. PLANT GUARANTEE: CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF ONE (1) YEAR FROM DATE OF PROJECT ACCEPTANCE BY THE OWNER.</div> <div>3. ALL DISTURBED AND PROPOSED LANDSCAPE PLANTING BED AREAS SHALL MATCH EXISTING GROUND CONDITIONS IN TYPE AND DEPTH UNLESS OTHERWISE STATED ON PLANS.</div> <div>4. IF NECESSARY, CONTRACTOR SHALL PRUNE EXISTING TREES TO MAINTAIN NECESSARY CLEARANCES, EQUIPMENT MANUFACTURER CLEARANCES, AND UTILITY REQUIRED CLEARANCES. CONTRACTOR SHALL MAKE TREE SHAPELY AND TYPICAL OF SPECIES PER ANSI A300 AND HORTICULTURAL STANDARDS.</div> <div>5. IF NECESSARY, CONTRACTOR SHALL ROOT PRUNE EXISTING TREES AS FOLLOWS: ENDS OF BROKEN ROOTS OVER 1/4" IN DIAMETER SHOULD BE PRUNED WITH A CLEAN CUT, REMOVING OVER INJURED PORTION.</div> <div>MATERIALS</div> <div>6. MULCH</div> <div>6.A. CONTRACTOR SHALL MATCH EXISTING MULCH IN TYPE, SIZE, COLOR, AND DEPTH PER PLAN. MULCH TO BE DOUBLE SHREDDED HARDWOOD BARK MULCH TO A 3" MINIMUM DEPTH.</div> <div>7. PLANTING SOIL MIX - SHALL BE CLEAR OF ALL STONES AND DEBRIS 1" OR LARGER, AND CONSIST OF THE FOLLOWING: 25% ORGANIC COMPOST, 75% ACCEPTABLE TOPSOIL.</div> <div>SODDING</div> <div>1. SOD SHALL BE SELECTED PER HARDINESS ZONE AND MATCHED TO EXISTING SITE. SOD SHALL BE A FIRST GRADE CERTIFIED BLEND CONTAINING NO MORE THAN 30 PERCENT OF OTHER GRASSES AND CLOVERS, AND FREE FROM ALL NOXIOUS WEEDS.</div> <div>ZONES 3, 4 &amp; 5: APPROVED BLUE GRASS BLEND ZONE 6: APPROVED FESCUE BLEND ZONES 7 &amp; 8: APPROVED BERMUDA BLEND ZONES 9 &amp; 10: APPROVED ST AUGUSTINE FLORATAM BLEND</div> <div>2. CONTRACTOR SHALL INSTALL SOD PER INDUSTRY STANDARDS. ALL SODDED AREAS INCLUDING SUBGRADE, SHALL BE KEPT THOROUGHLY MOIST FOR 30 DAYS AFTER SODDING. THE CONTRACTOR SHALL REPAIR ANY AREAS DAMAGED FOLLOWING INSTALLATION AS DIRECTED BY THE ENGINEER. SOD SHALL BE IN PLACE AT LEAST 30 DAYS BEFORE FINAL ACCEPTANCE.</div> <div>MAINTENANCE</div> <div>(MAINTENANCE PERIOD TO COMMENCE AFTER FINAL INSPECTION.)</div> <div>1. MAINTENANCE PERIOD FOR THIS CONTRACT SHALL BE 90 CALENDAR DAYS COMMENCING AFTER FINAL INSPECTION OF CONSTRUCTION.</div> <div>2. MAINTAIN SHRUBS. BY PRUNING, CULTIVATING AND WEEDING AS REQUIRED FOR HEALTHY GROWTH. PLANTS SHALL BE KEPT DISEASE FREE. RESTORE PLANTING SAUCERS. RESET SHRUBS TO PROPER GRADES OR VERTICAL POSITION AS REQUIRED.</div> <div>3. MAINTAIN LAWNS BY WATERING, MOWING, TRIMMING, AND OTHER OPERATIONS SUCH AS ROLLING, REGRADING AND RESODDING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.</div> <div>4. REPLACE ANY REQUIRED PLANTING(S), WHICH ARE MORE 25% OR MORE DEAD AFTER THE DATE OF PLANTING. SUCH REPLACEMENT SHALL OCCUR DURING THE NEXT APPROPRIATE PLANTING SEASON.</div> <div>IRRIGATION</div> <div>1. IRRIGATION RELOCATION: CONTRACTOR SHALL VERIFY IF EXISTING IRRIGATION IS PRESENT, DETERMINE POINT OF CONNECTION, SYSTEM PRESSURE, FIXTURE TYPES, AND POTENTIAL FOR EXPANSION. IF FOUND THAT THE EXISTING IRRIGATION SYSTEM IS CAPABLE OF EXPANSION AND REUSE THEN IT SHALL BE MODIFIED TO PROVIDE 100% COVERAGE OF THE LANDSCAPE AREA. IF THE EXISTING IRRIGATION SYSTEM IS NOT CAPABLE OF EXPANSION, CONTRACTOR TO INSTALL A NEW CONTROLLER, BOOSTER PUMP, AND OTHER APPARATUSSES NEEDED FOR A COMPLETE IRRIGATION SYSTEM. IRRIGATED AREAS SHALL BE IRRIGATED BY DRIP IRRIGATION OR SIMILAR FIXTURES BY THE SAME SUPPLIER. CONTRACTOR SHALL ENSURE: BUILDING WALLS AND WINDOWS WILL NOT BE DAMAGED OR STAINED BY IMPROPER IRRIGATION INSTALLATION OR POOR SELECTION OF FIXTURES. SYSTEM SHALL INCLUDE ALL SPRINKLER FIXTURES, DRIP TUBING, PIPING, VALVES, WIRING AND CONTROLS TO PROVIDE A COMPLETE FUNCTIONAL SYSTEM THAT SHALL COMPLY WITH CITY CODE. PRIOR TO UPDATING THE IRRIGATION SYSTEM, A CERTIFIED IRRIGATION DESIGNER SHALL PROVIDE SHOP DRAWINGS TO OWNER FOR APPROVAL. UPON APPROVAL OF SHOP DRAWINGS, THE UPDATED IRRIGATION SYSTEM SHALL BE APPROVED BY OWNER FOR FINAL ACCEPTANCE.</div>
SIEVE SIZE	TOTAL PERCENT PASSING																																																	
1-1/2" (37.50 MM)	100																																																	
1" (25.00 MM)	75 TO 100																																																	
3/4" (19.00 MM)	80 TO 100																																																	
3/8" (9.50 MM)	35 TO 75																																																	
No. 4 (4.75 MM)	30 TO 60																																																	
No. 30 (0.60 MM)	7 TO 30																																																	
No. 200 (0.75 MM)	3 TO 15																																																	
OTHER			TOP*																																															
BAR SIZE	ANCHORAGE	SPLICE	ANCHORAGE	SPLICE																																														
#3	15	19	19	24																																														
#4	19	25	25	33																																														
#5	24	31	31	41																																														
#6	29	37	37	49																																														

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

IC  
SL  
T

3500 DEER CREEK RD.  
PALO ALTO, CA 94304  
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**GPD GROUP**  
Professional Corporation

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

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2	12/30/2024	ADDRESSED TESLA COMMENTS
3	01/17/2025	ADDRESSED COMMENTS

PRCNC20231632

LEONARDO A. SERRA  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
01/17/25

EXPIRES 04/16/2026

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

CIVIL  
CONSTRUCTION NOTES

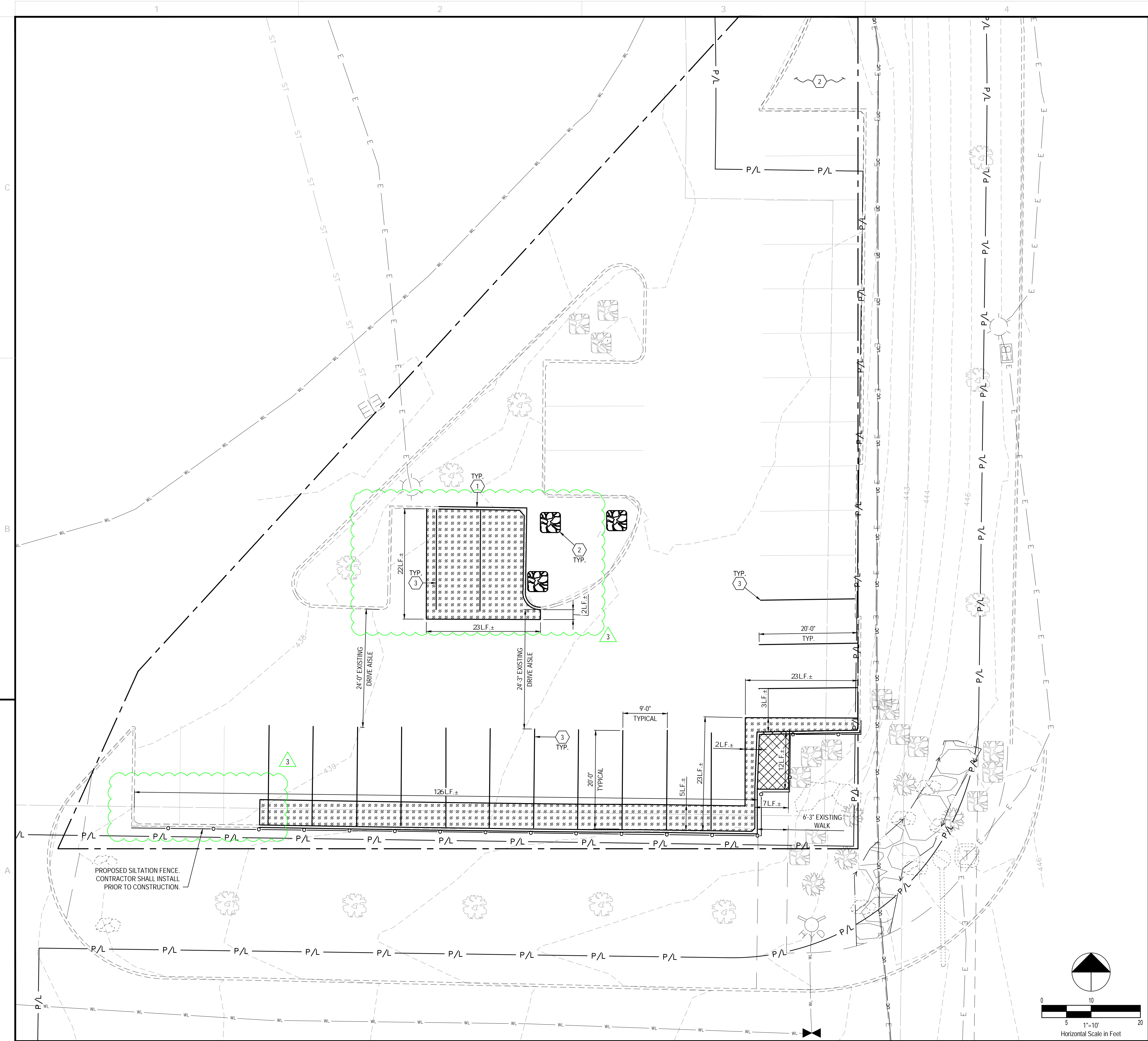
PROJECT MANAGER	DESIGNER
IM	CPC

JOB NO.  
2023241.47

C-003

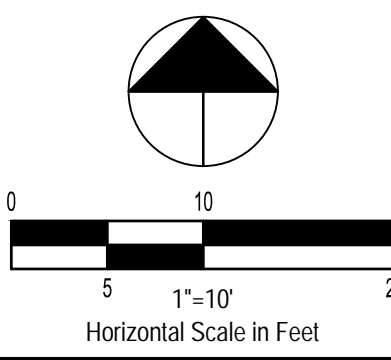


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January 17, 2025 7:49 AM - kball



- 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.

- LEGEND**  
(SEE SHEET C-003 FOR EXISTING LEGEND)
- SILTATION 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.
  - LENTH OF PAVEMENT DISTURBANCE IN LINEAR FOOT (L.F.)
  - PROPOSED CONSTRUCTION STAGING/FENCED AREA



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PRCNC20231632

LEONARDO A. SERRANO  
STATE OF WASHINGTON  
35812  
REGISTERED PROFESSIONAL ENGINEER  
01/17/25  
EXPIRES 04/16/2026

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

PROJECT MANAGER	DESIGNER
IM	CPC

JOB NO.  
**2023241.47**

**C-101**

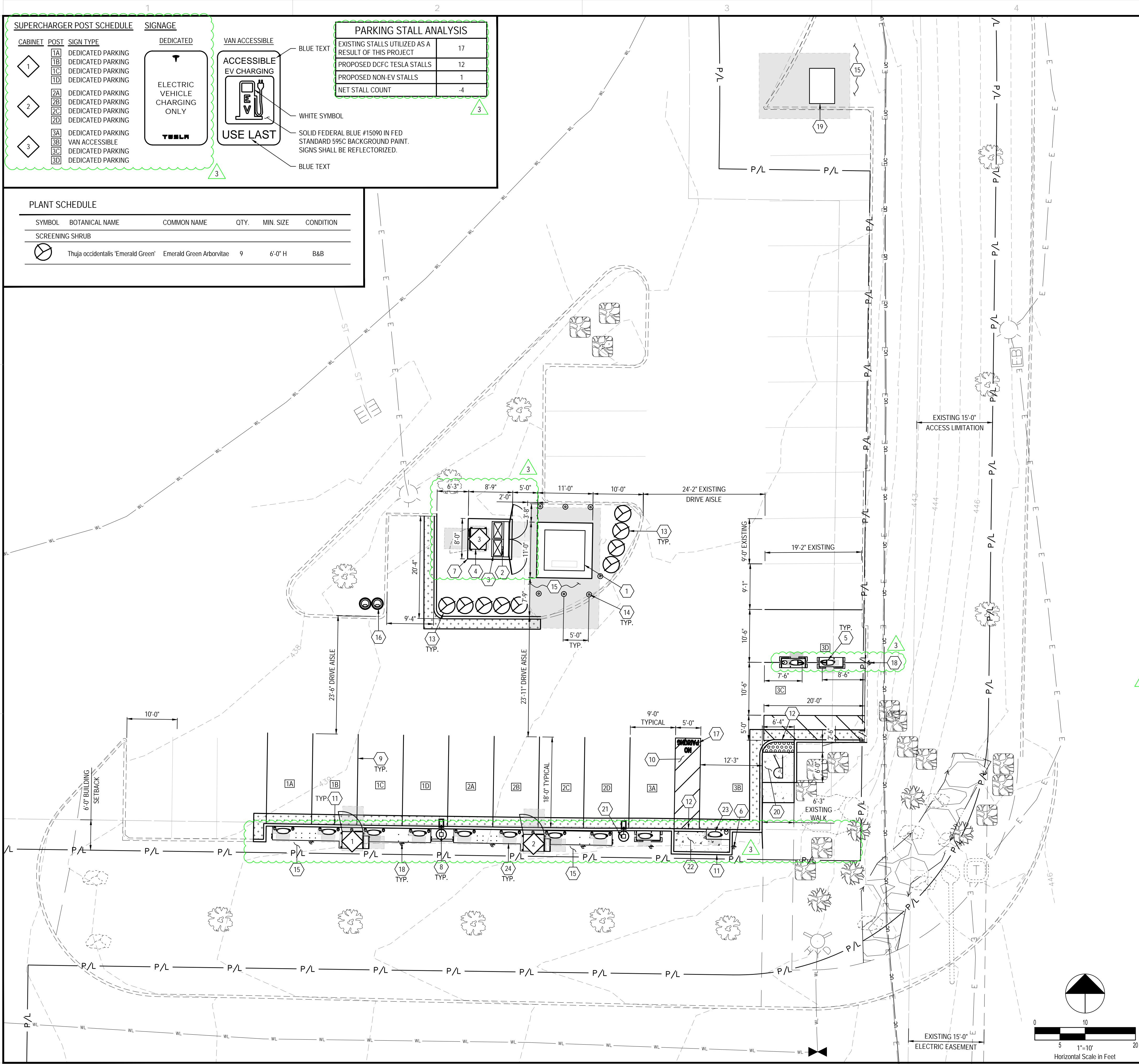
**TESLA**

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(650) 681-5000

**GPD GROUP**  
Professional Corporation  
520 South Main Street, Suite 2631  
Akron, OH 44311  
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Drawing Name: 0120230224112 - TRT 27473 - South Hill Mall (Target) Puyallup, WA Aug 2022 241.17 - Puyallup, WA - SCS PSU Aug  
January 17, 2025 7:49 AM - Ideal



SUPERCHARGER POST SCHEDULE		
CABINET	POST	SIGN TYPE
1	1A	DEDICATED PARKING
	1B	DEDICATED PARKING
	1C	DEDICATED PARKING
2	2A	DEDICATED PARKING
	2B	DEDICATED PARKING
	2C	DEDICATED PARKING
3	3A	DEDICATED PARKING
	3B	VAN ACCESSIBLE
	3C	DEDICATED PARKING
	3D	DEDICATED PARKING

SIGNAGE

DEDICATED

ELECTRIC VEHICLE CHARGING ONLY

TESLA

VAN ACCESSIBLE

ACCESSIBLE EV CHARGING

USE LAST

PARKING STALL ANALYSIS		
EXISTING STALLS UTILIZED AS A RESULT OF THIS PROJECT		17
PROPOSED DCFC TESLA STALLS		12
PROPOSED NON-EV STALLS		1
NET STALL COUNT		-4

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

- GENERAL SHEET NOTES
1.

EXISTING PROPERTY LINES, RIGHT-OF-WAY BOUNDARIES, EASEMENT BOUNDARIES, SETBACKS, AND UTILITIES ARE SHOWN FOR REFERENCE ONLY.
2.

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.
3.

APPLY LIQUID ASPHALT AT ALL JOINTS BETWEEN CONCRETE AND ASPHALT AND WHERE PROPOSED ASPHALT MEETS EXISTING, INCLUDING SAW CUT JOINTS.
4.

CONTRACTOR SHALL FIELD 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.
5.

THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE TOWARDS THE NEAREST EXISTING DRAINAGE STRUCTURE AND ENSURE NO PONDING OCCURS ON SITE.
6.

CONTRACTOR SHALL ENSURE SLOPES OF PARKING STALL 3B AND ADJACENT TRANSVERSE STRIPED AREA(S) ARE COMPLIANT WITH NATIONAL ADA STANDARDS. NO SLOPE SHALL EXCEED 2% IN ANY DIRECTION WITHIN PARKING STALL 3B 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
1.

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.
2.

PROPOSED UTILITY METER MOUNTED IN SWITCHGEAR PER ELECTRIC COMPANY SPECIFICATIONS AND DETAILS ON ELECTRICAL SHEETS.
3.

PROPOSED SWITCHGEAR ASSEMBLY WITH INTEGRATED TESLA SITE CONTROLLER AND PRIMARY BROADCAST UNIT PER ELECTRICAL DRAWINGS. SEE CIVIL DETAILS FOR ANCHORAGE.
4.

PROPOSED TESLA SUPERCHARGER CABINET (TYPICAL OF 1). SEE CIVIL DETAILS.
5.

PROPOSED TESLA SUPERCHARGER POST WITH INDIVIDUAL PRECAST CONCRETE FOUNDATION (TYPICAL OF 3). SEE CIVIL DETAILS.
6.

PROPOSED NON-ILLUMINATED PARKING SIGN (TYPICAL OF 1). SEE CIVIL DETAILS. SEE SUPERCHARGER POST SCHEDULE, THIS SHEET. MOUNT SIGN POST IN BOLLARD AS NOTED.
7.

PROPOSED CONCRETE EQUIPMENT PAD. SEE CIVIL DETAILS.
8.

PROPOSED LIGHT POLE (TOTAL OF 2). SEE CIVIL DETAILS. SEE ELECTRICAL DRAWINGS FOR POLE AND FIXTURE SPECIFICATIONS AND WIRING.
9.

PROPOSED PAINTED 4" WIDE SOLID STRIPE TO MATCH EXISTING STRIPING IN COLOR. SEE PAVEMENT MARKING NOTES ON SHEET C-003.
10.

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.
11.

PROPOSED CONCRETE CURB TO MATCH EXISTING. SEE CIVIL DETAILS.
12.

PROPOSED FLUSH CONCRETE CURB WITH INTEGRATED WALK. SEE CIVIL DETAILS.
13.

PROPOSED SCREENING SHRUB. SEE PLANT SCHEDULE THIS PAGE, LANDSCAPE NOTES ON C-003 AND DETAIL ON C-203.
14.

PROPOSED DETERRENT BOLLARD PER UTILITY SPECIFICATION (TYPICAL OF 7)
15.

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.
16.

PROPOSED TRASH CAN AND RECYCLING BIN (TYPICAL OF 1 EACH). SEE CIVIL DETAILS.
17.

PROPOSED "NO PARKING" IN WHITE LETTERS, 12 INCHES. SEE PAVEMENT MARKING NOTES ON SHEET C-003.
18.

PROPOSED NON-ILLUMINATED PARKING SIGN (TYPICAL OF 6). SEE CIVIL DETAILS. SEE SUPERCHARGER POST SCHEDULE, THIS SHEET. MOUNT SIGN POST IN BOLLARD AS NOTED. WHERE APPLICABLE, CONTRACTOR SHALL MOUNT SIGN TO LIGHT POLE IN LIEU OF POST AND/OR BOLLARD.
19.

PROPOSED UTILITY JUNCTION BOX PER UTILITY SPECIFICATION.
20.

PROPOSED ACCESSIBLE CONCRETE RAMP. SEE CIVIL DETAILS.
21.

PROPOSED WIRELESS ACCESS POINT (TYPICAL OF 1). MOUNT PER MANUFACTURER'S SPECIFICATIONS AT MINIMUM 10'-0" ABOVE GRADE. WHERE APPLICABLE, CONTRACTOR SHALL MOUNT TO LIGHT POLE.
22.

PROPOSED CONCRETE ACCESSIBLE WALK. SEE CIVIL DETAILS.
23.

PROPOSED TESLA SUPERCHARGER POST WITH INDIVIDUAL CAST-IN-PLACE CONCRETE FOUNDATION (TYPICAL OF 1). SEE CIVIL DETAILS.
24.

PROPOSED TESLA PRE-ASSEMBLED SUPERCHARGING UNIT (PSU) (TYPICAL OF 2). SEE CIVIL DETAILS. COMPONENTS ON EACH PSU ARE AS FOLLOWS:
  - (1) SERVICE DISCONNECT PER PSU, (2) TOTAL
  - (1) CHARGING CABINET PER PSU, (2) TOTAL
  - (4) CHARGE POSTS PER PSU, (8) TOTAL

LEGEND

(SEE SHEET C-003 FOR EXISTING LEGEND)

PROPOSED EQUIPMENT CLEAR SPACE

PROPOSED CONCRETE WALK TO MATCH EXISTING IN TYPE AND DEPTH. SEE CIVIL DETAILS FOR MINIMUM REQUIREMENTS.

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.

TESLA

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GPD GROUP

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PRCNC20231632

01/17/25

EXPIRES 04/16/2026

TESLA SUPERCHARGER STATION

3310 S MERIDIAN ST. (TESLA SUPERCHARGER)

PUYALLUP, WA 98373

CIVIL SITE PLAN

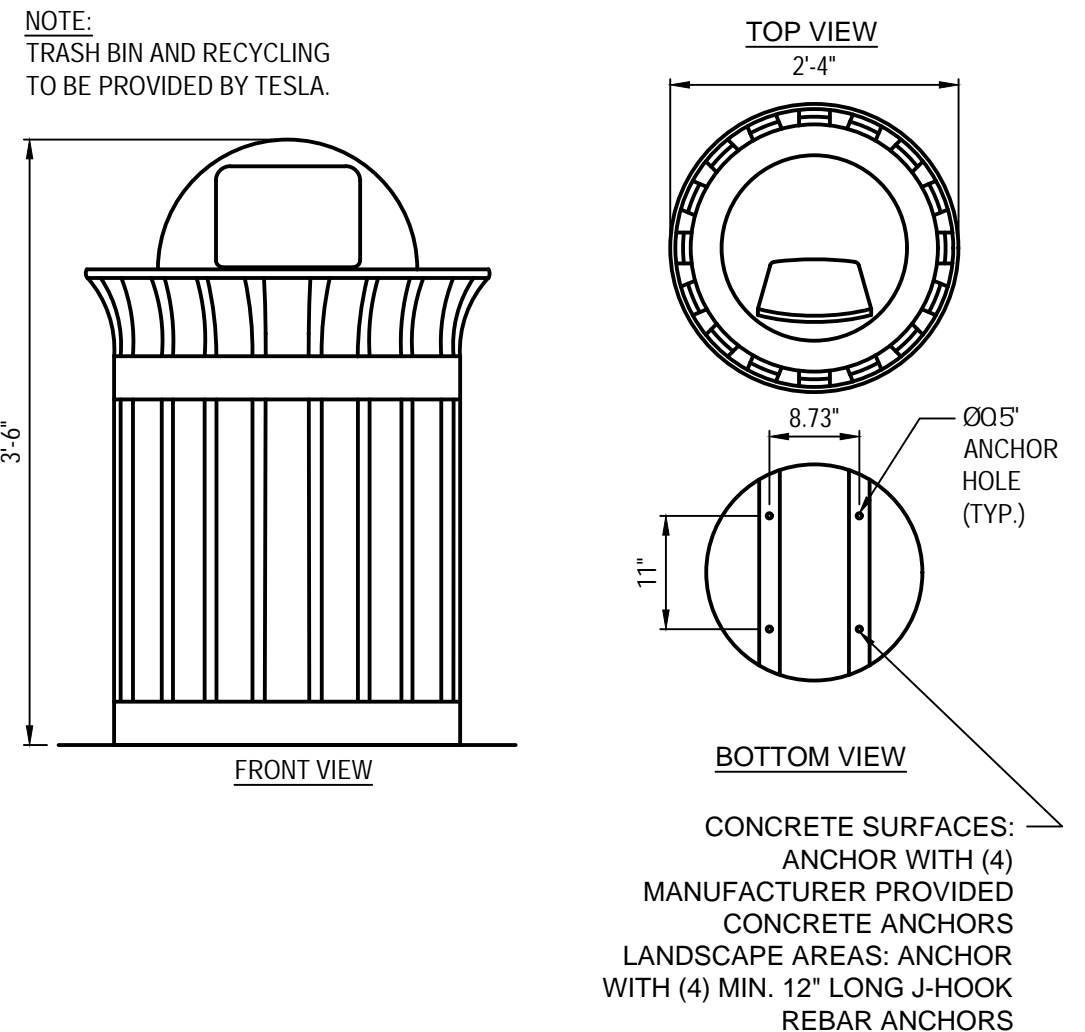
PROJECT MANAGER	DESIGNER
IM	CPC

JOB NO.

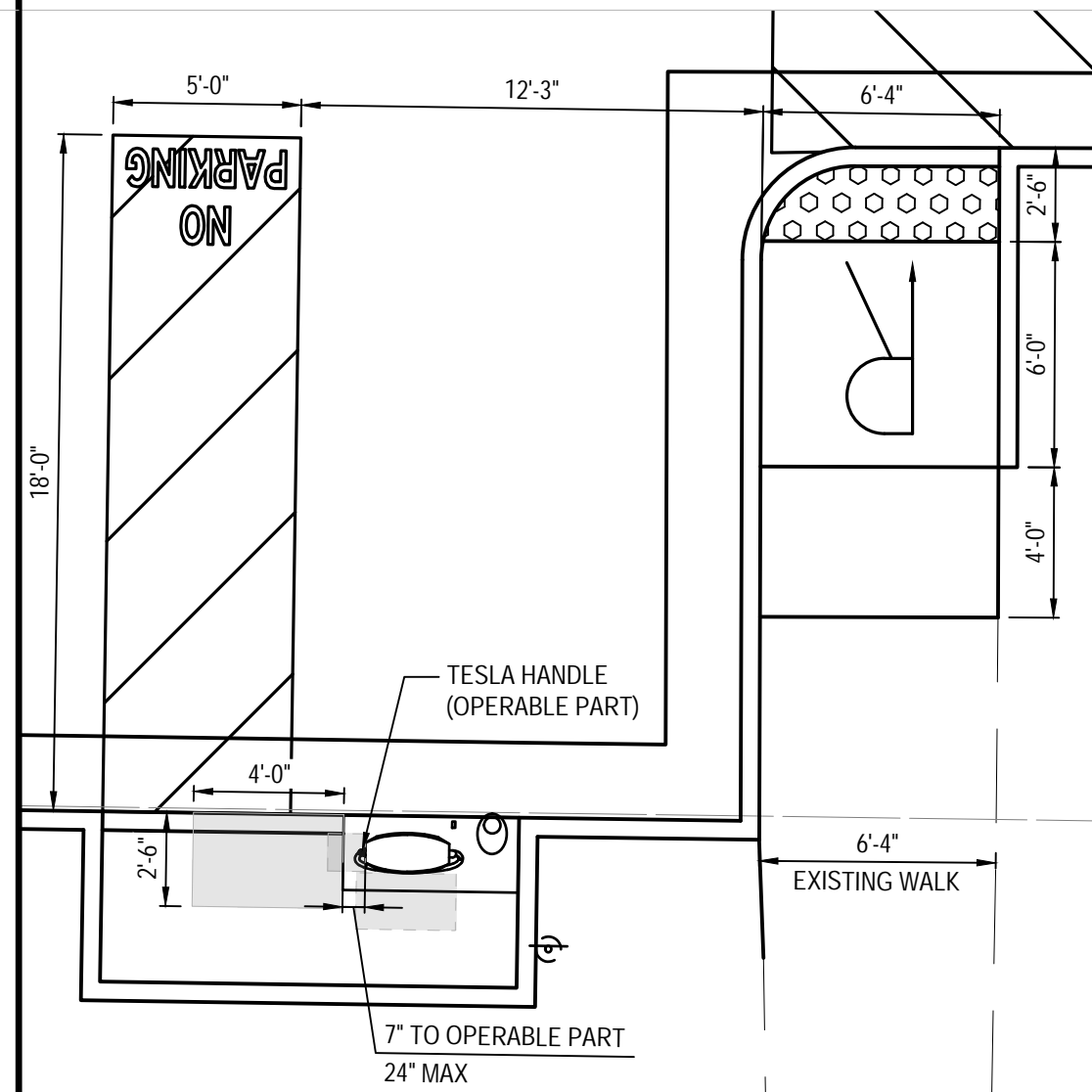
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C-111

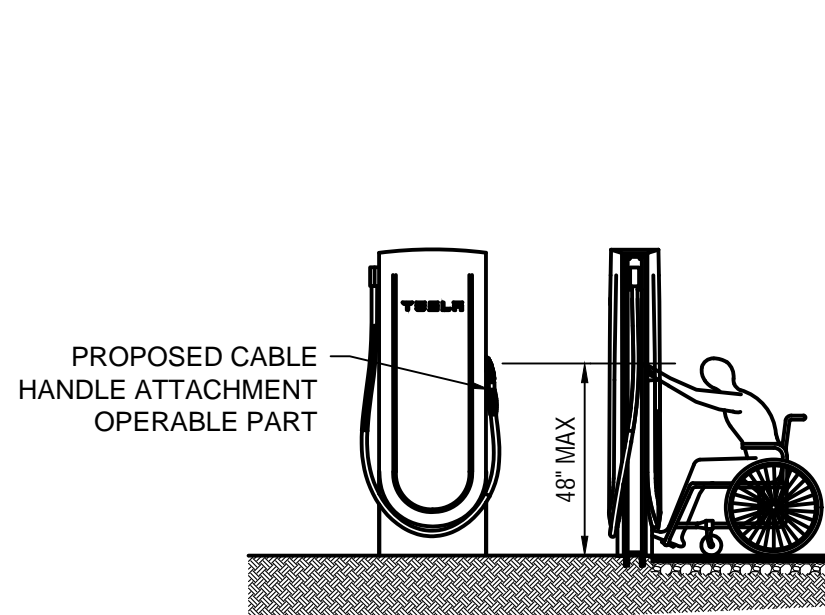




C-1 TRASH CAN AND RECYCLING BIN  
N.T.S.

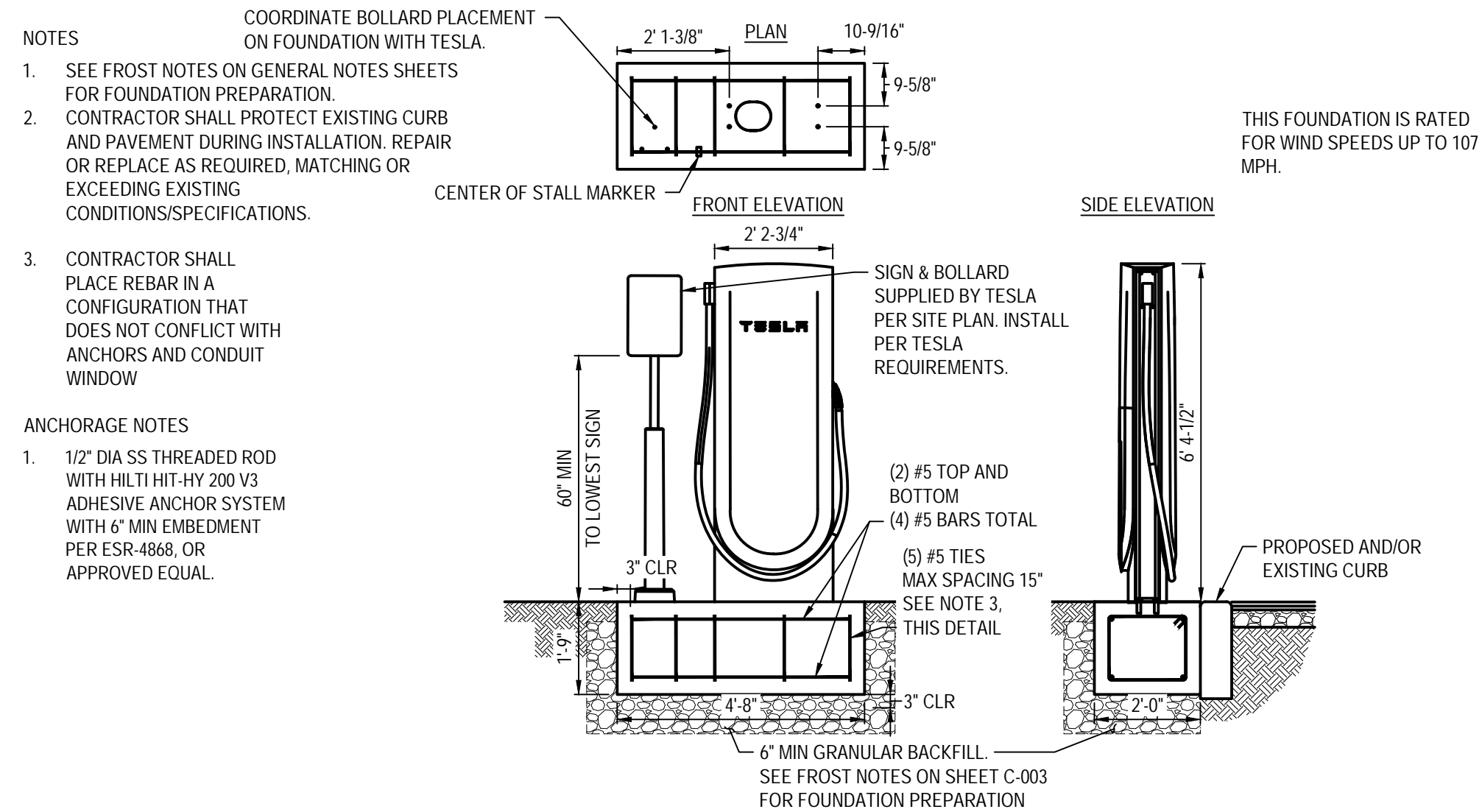


B-1 ACCESSIBLE REACH PLAN  
N.T.S.

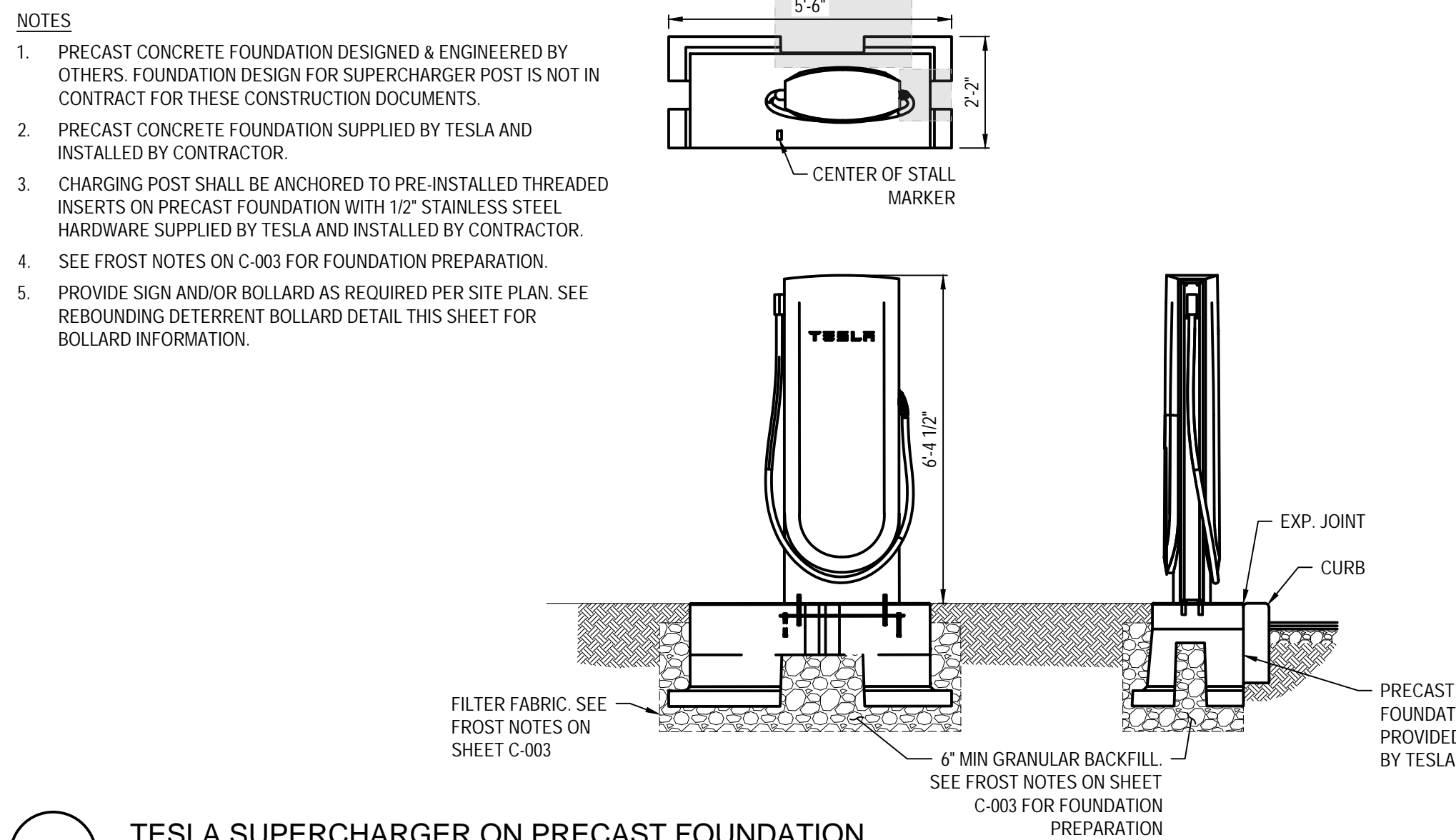


THIS ELEVATION IS A REFERENCE TO THE 2017 ICC A117.1 STANDARDS FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES. SEE SECTION 308, FIGURE 308.3.1, UNOBSTRUCTED FRONT REACH, 48" MAX REACH HEIGHT.

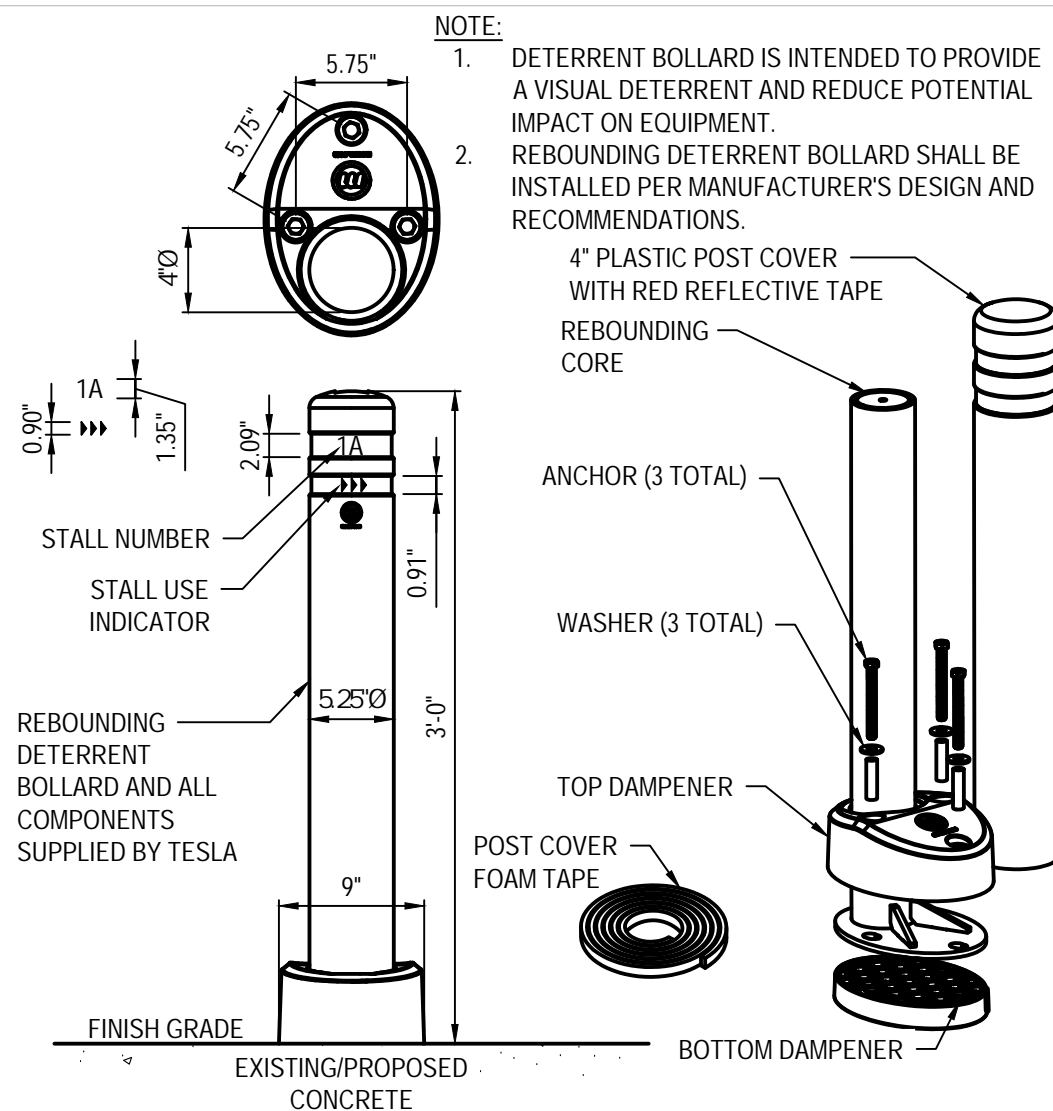
A-1 ACCESSIBLE REACH ELEVATION  
N.T.S.



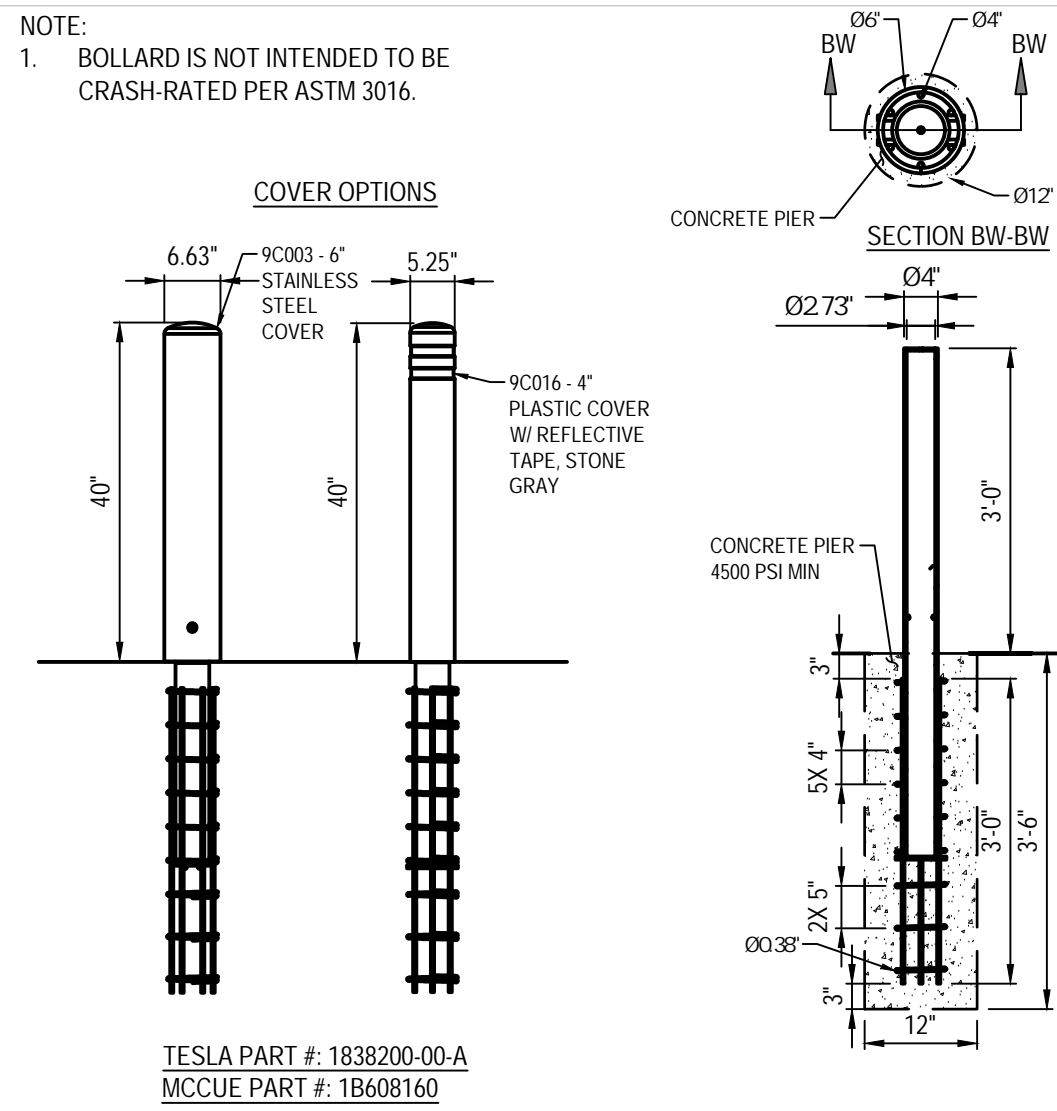
C-2 TESLA SUPERCHARGER CAST-IN-PLACE FOUNDATION  
N.T.S.



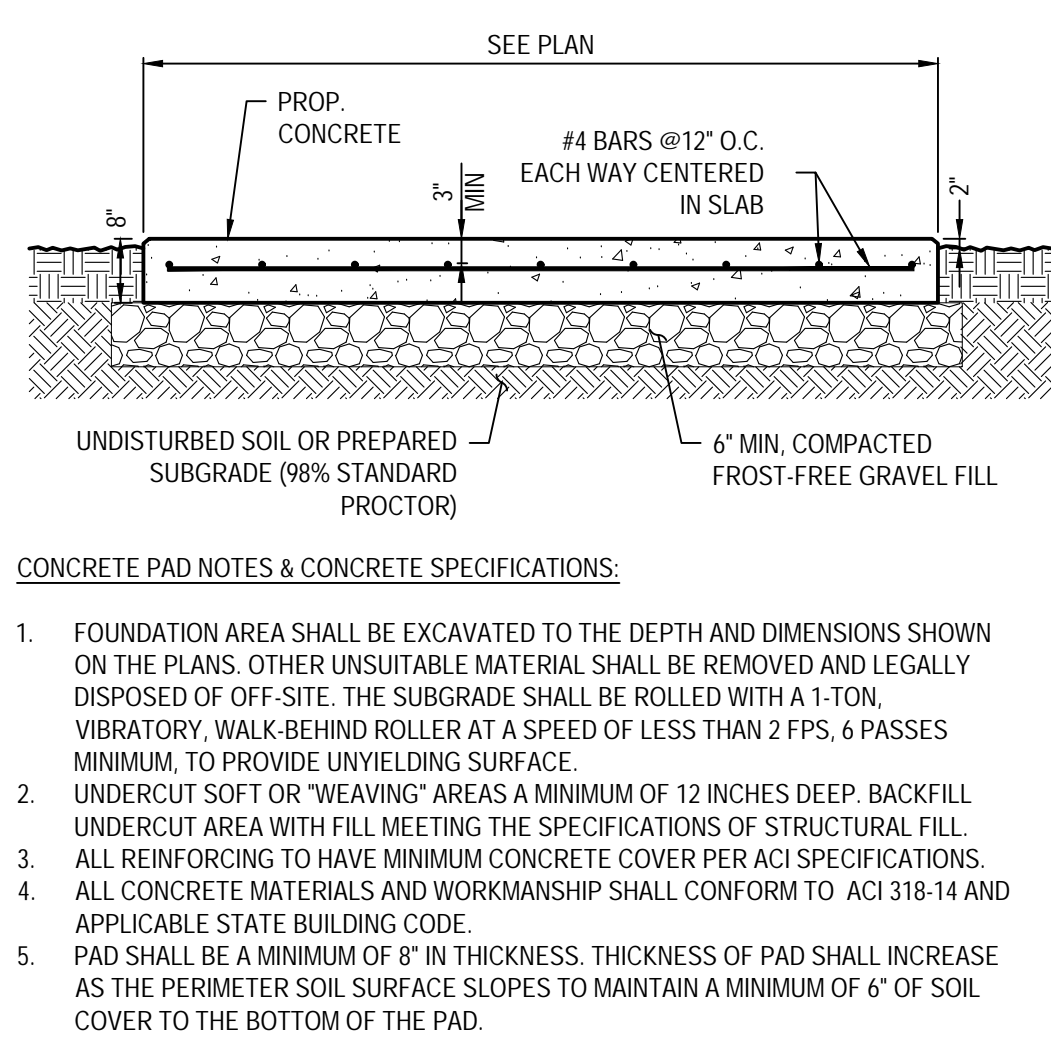
B-2 TESLA SUPERCHARGER ON PRECAST FOUNDATION  
N.T.S.



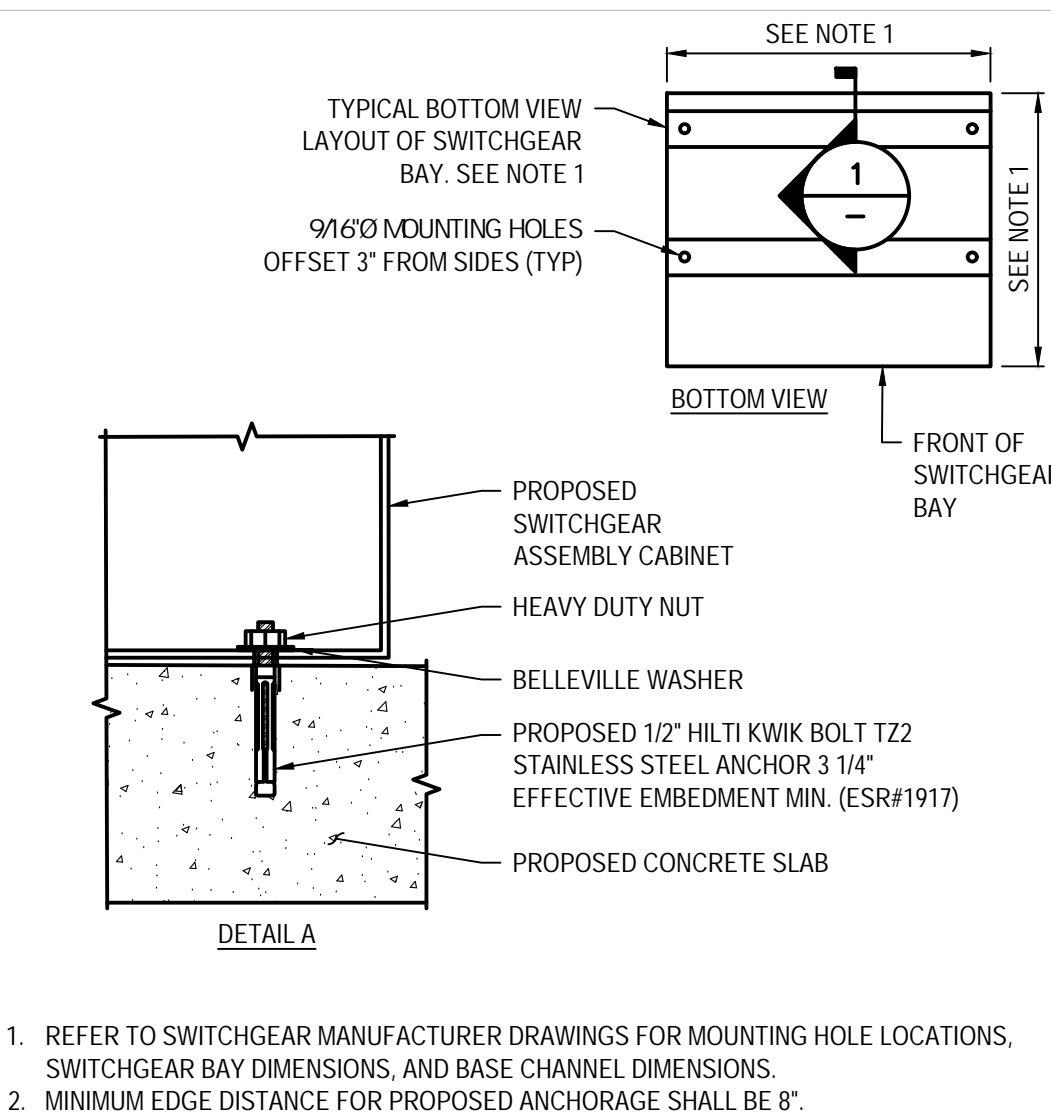
A-2 REBOUNDING DETERRENT BOLLARD  
N.T.S.



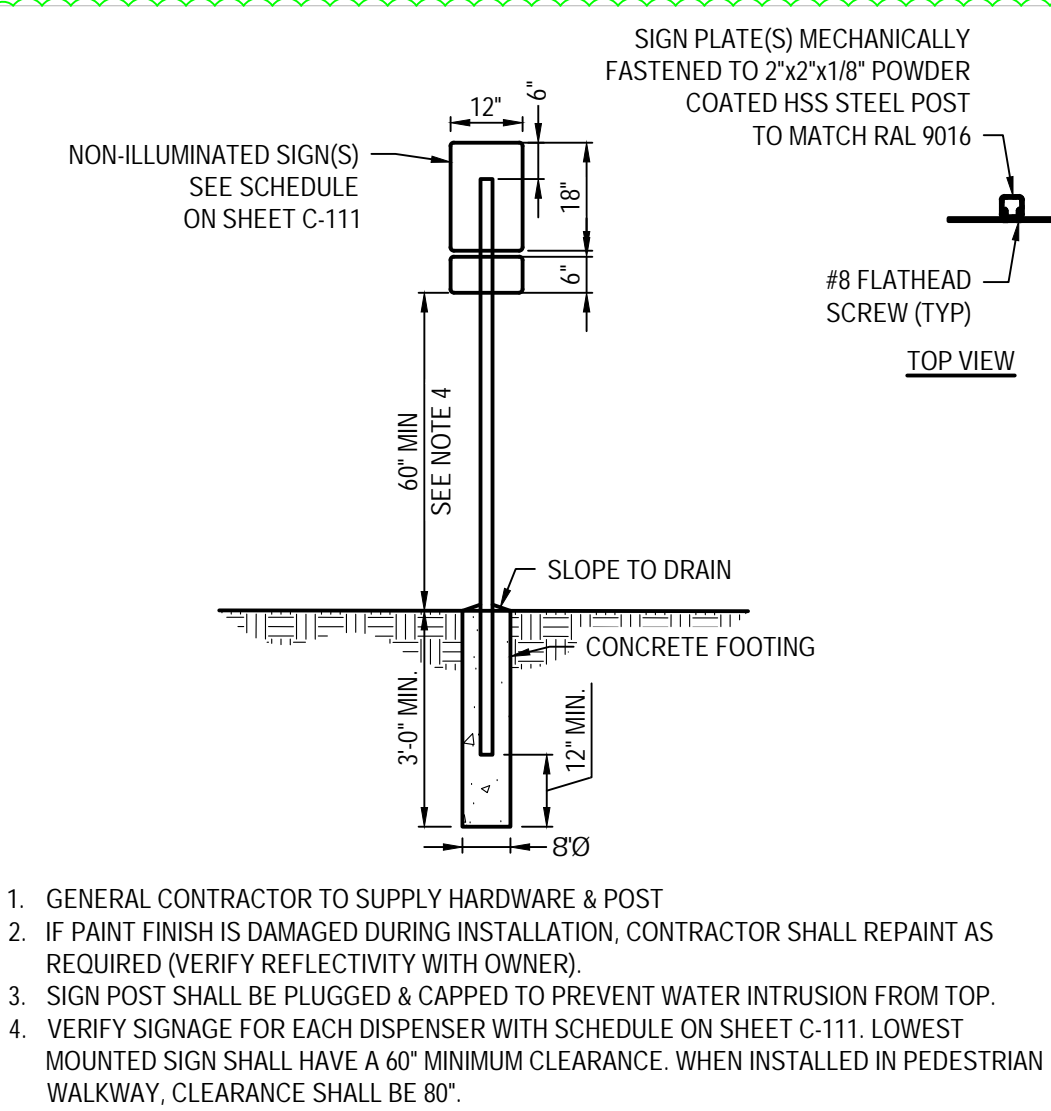
A-3 CRASHCORE DETERRENT BOLLARD  
N.T.S.



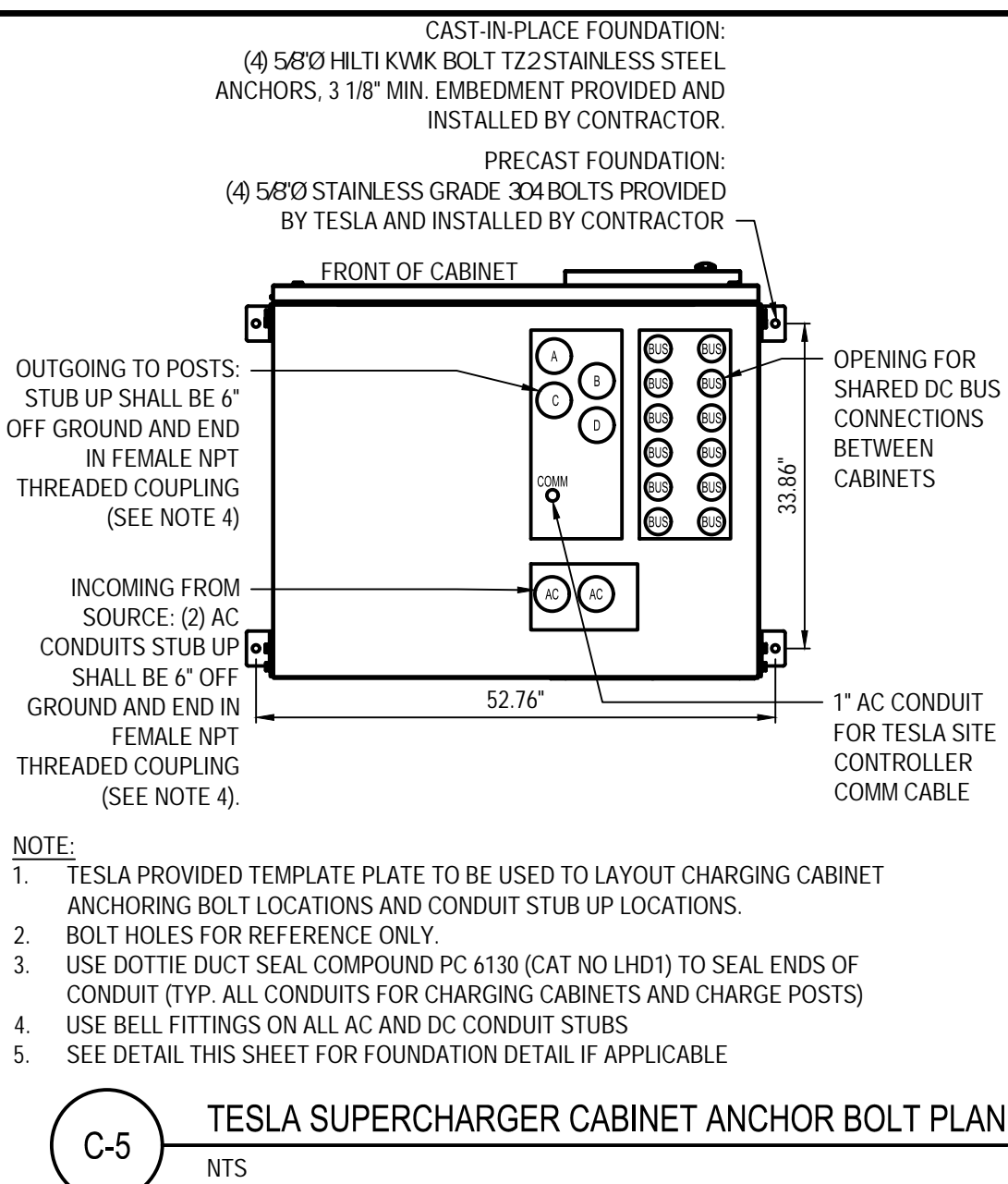
C-4 EQUIPMENT PAD  
N.T.S.



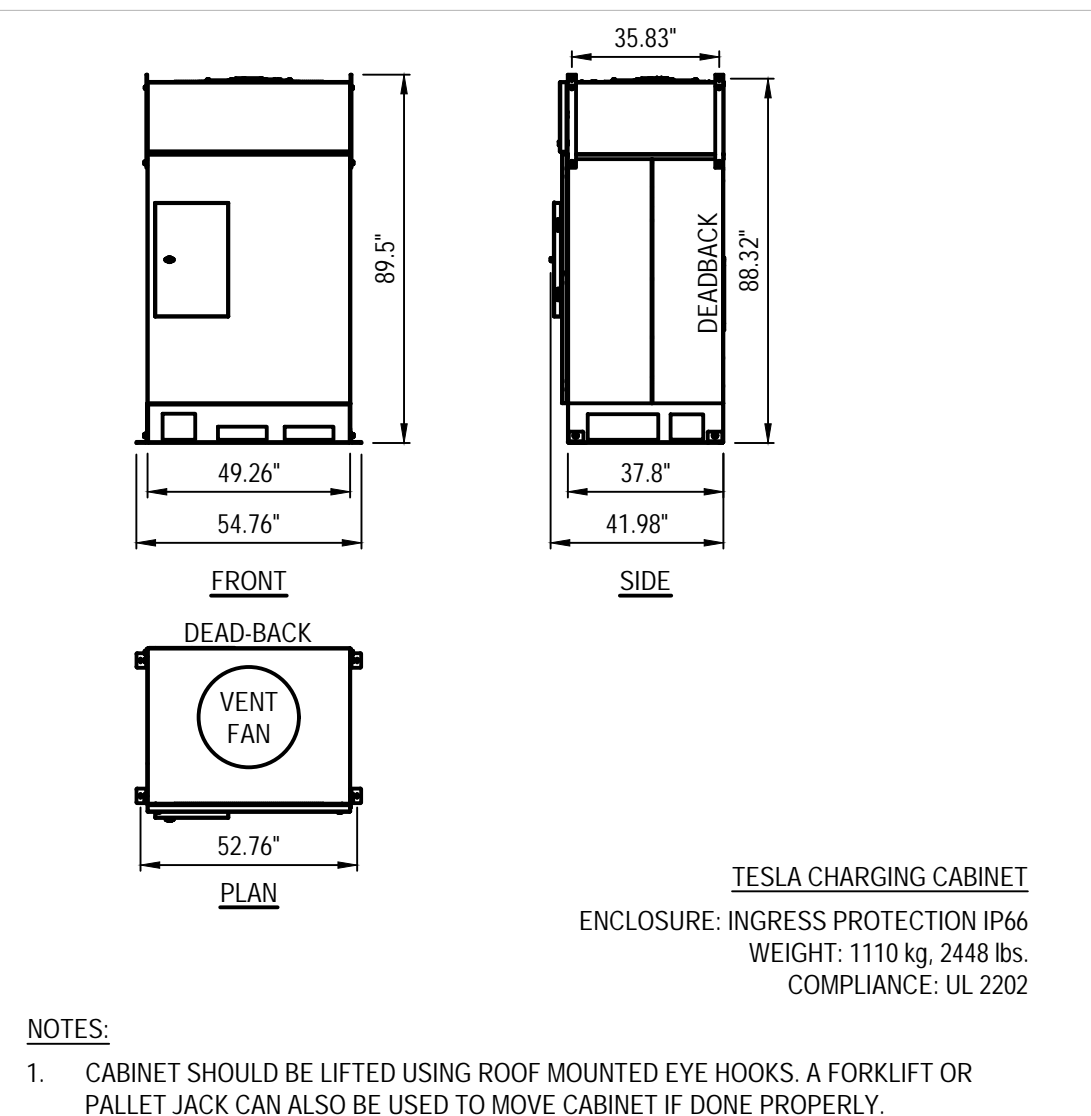
B-4 MOUNTING FOR Z-POWER SWITCHGEAR  
N.T.S.



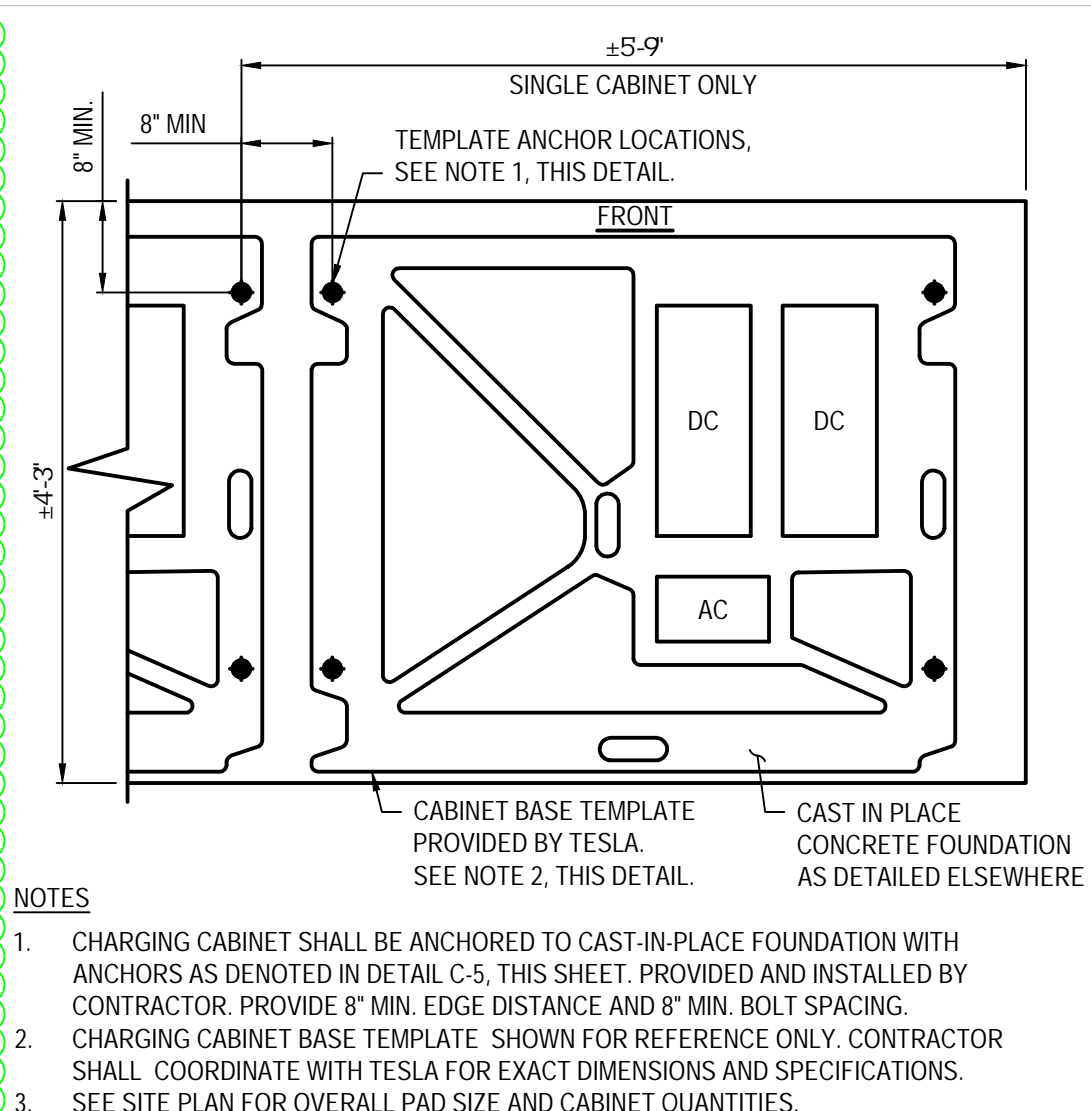
A-4 NON-ILLUMINATED SIGN  
N.T.S.



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



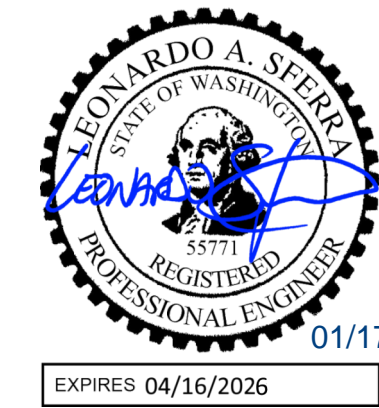
B-5 TESLA SUPERCHARGER CABINET DIMENSIONS  
N.T.S.



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

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PUYALLUP, WA 98373

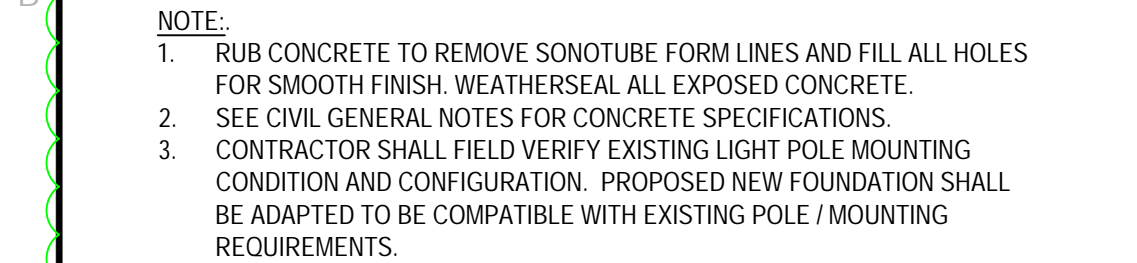
PROJECT MANAGER	DESIGNER
IM	CPC

JOB NO.  
2023241.47

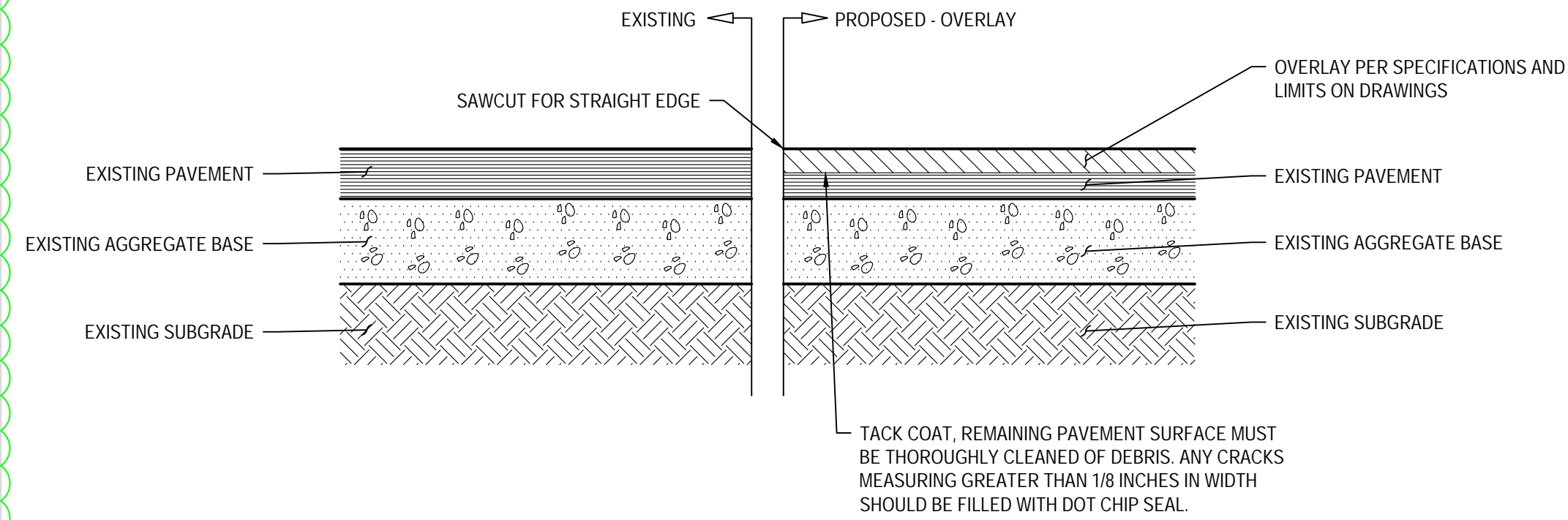
C-201

CIVIL DETAILS

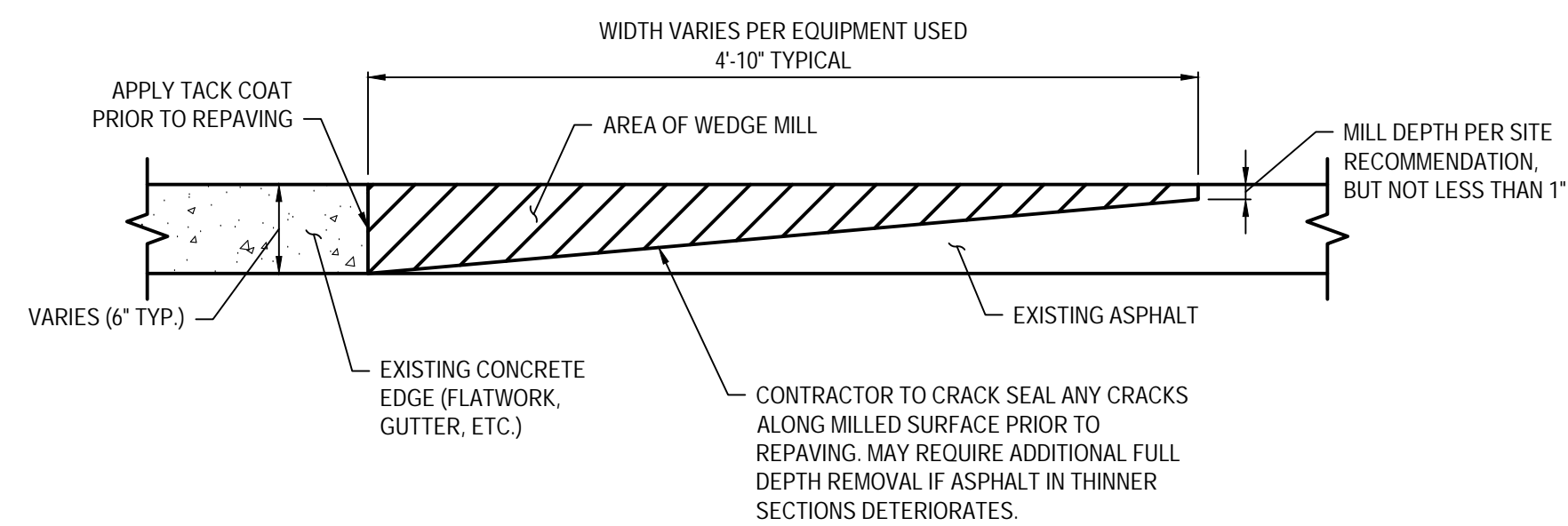




B-1 N.T.S.

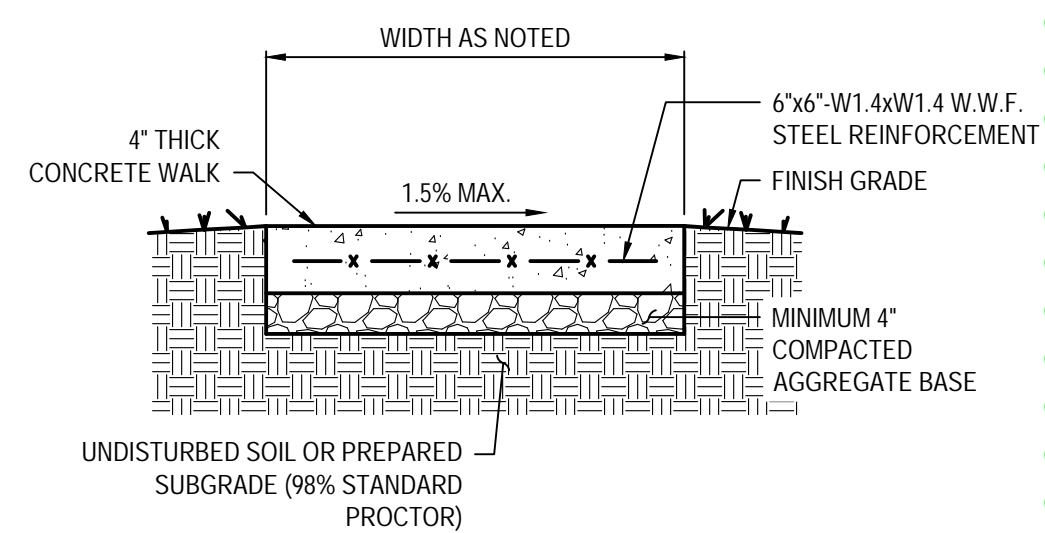


C-2 OVERLAY ASPHALT  
N.T.S.



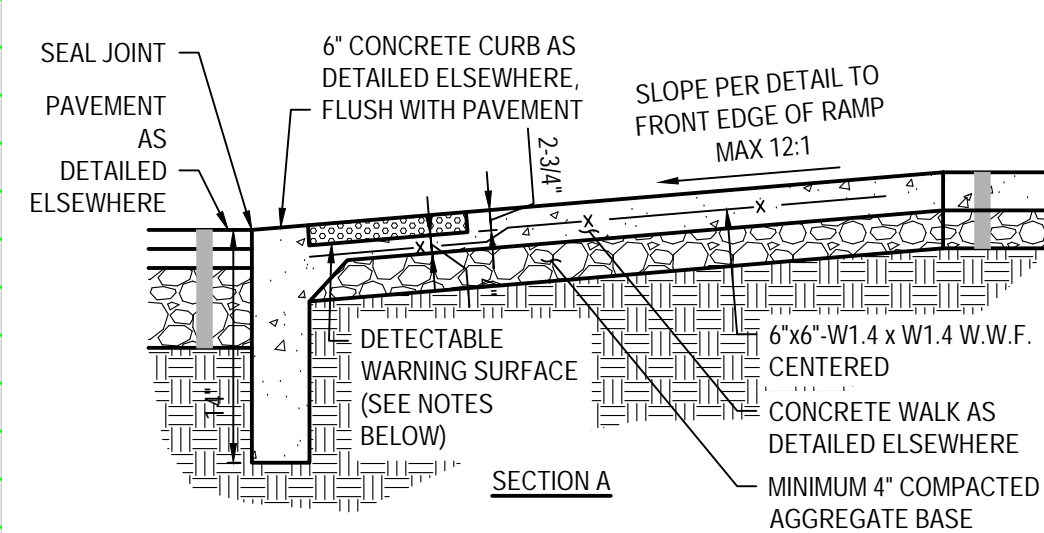
- NOTES:
1. CONTRACTOR TO ENSURE PROPER DRAINAGE OF NEWLY PAVED AREAS.
  2. IN ASPHALT SECTIONS THINNER THAN 6" ADJACENT TO CONCRETE, REMOVE BEDDING, PREP SUBGRADE AND PROVIDE NEW THICKER ASPHALT SECTION IN AREA OF WEDGE MILL.

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



- NOTES:
1. CONTRACTOR SHALL INSTALL 1/2" PRE-FORMED EXPANSION JOINT MATERIAL AND JOINT SEALER WHERE PAVEMENT ABUTS BUILDING.
  2. SEE GENERAL NOTES SHEET FOR CONCRETE AND REINFORCEMENT SPECIFICATIONS.

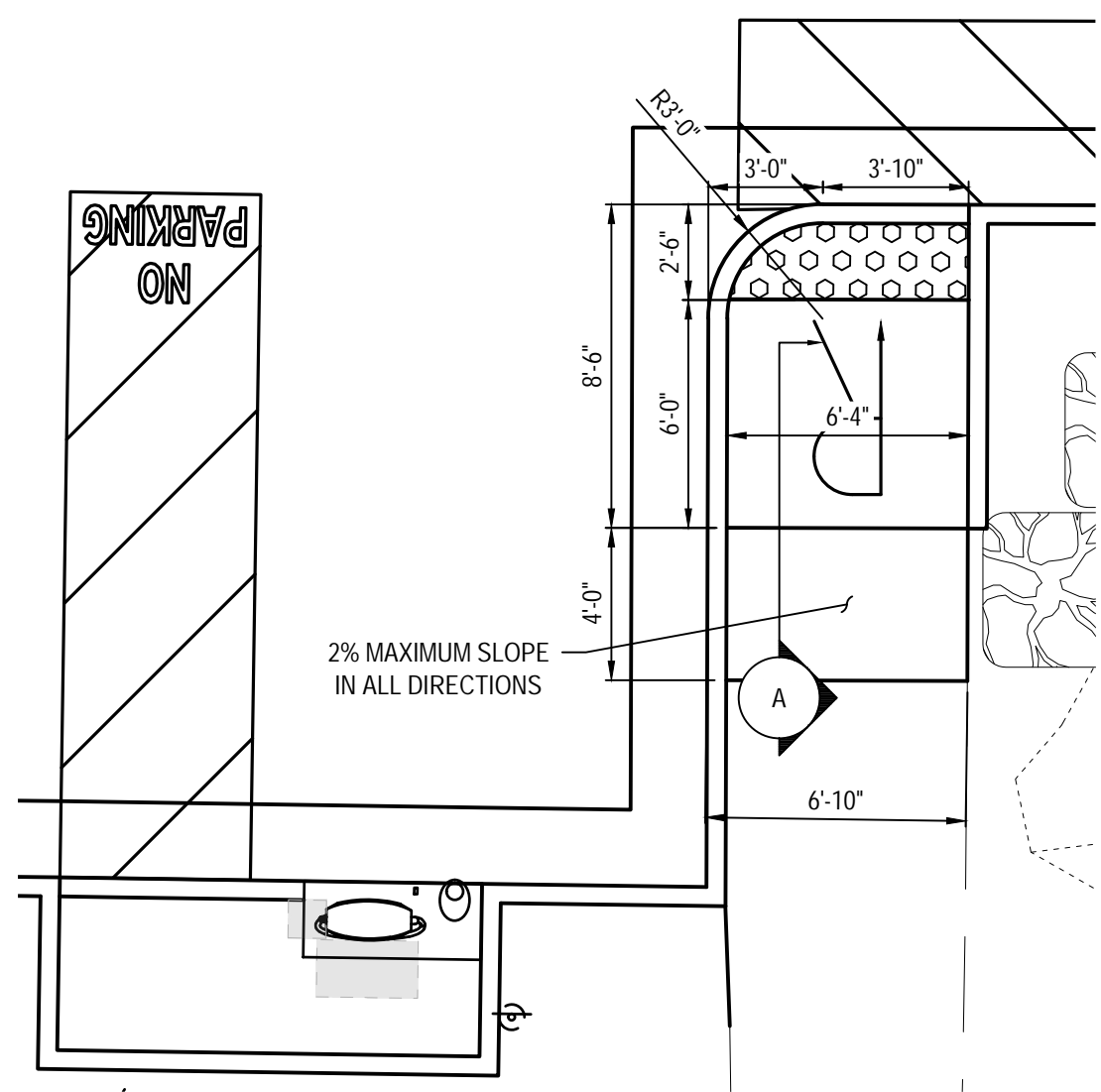
A-1 CONCRETE WALK  
N.T.S.



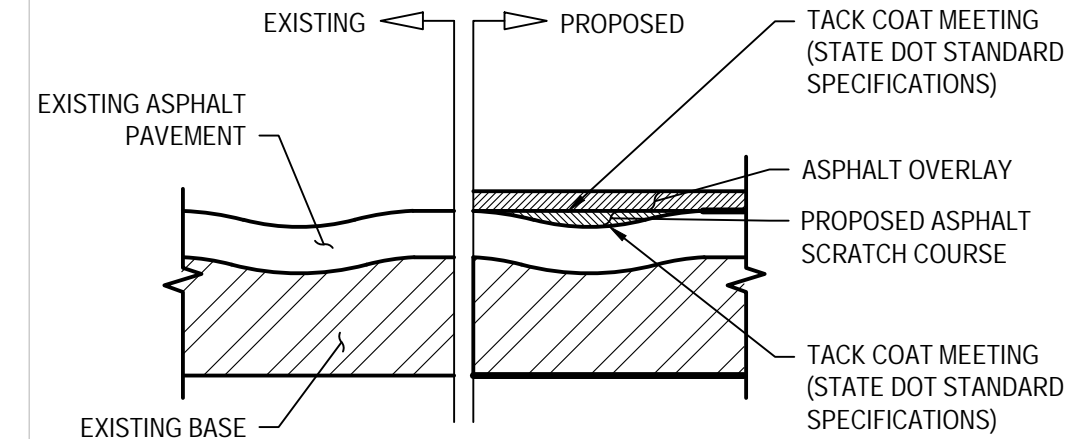
**DETECTABLE WARNINGS**  
ARMOR-TILE TACTILE SYSTEMS DETECTABLE WARNING SURFACE TILE PER ARMOR-TILE  
SPECIFICATIONS FOR INSTALLATION ([WWW.ARMOR-TILE.COM](http://WWW.ARMOR-TILE.COM))

DETECTABLE WARNING COLOR SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES  
EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

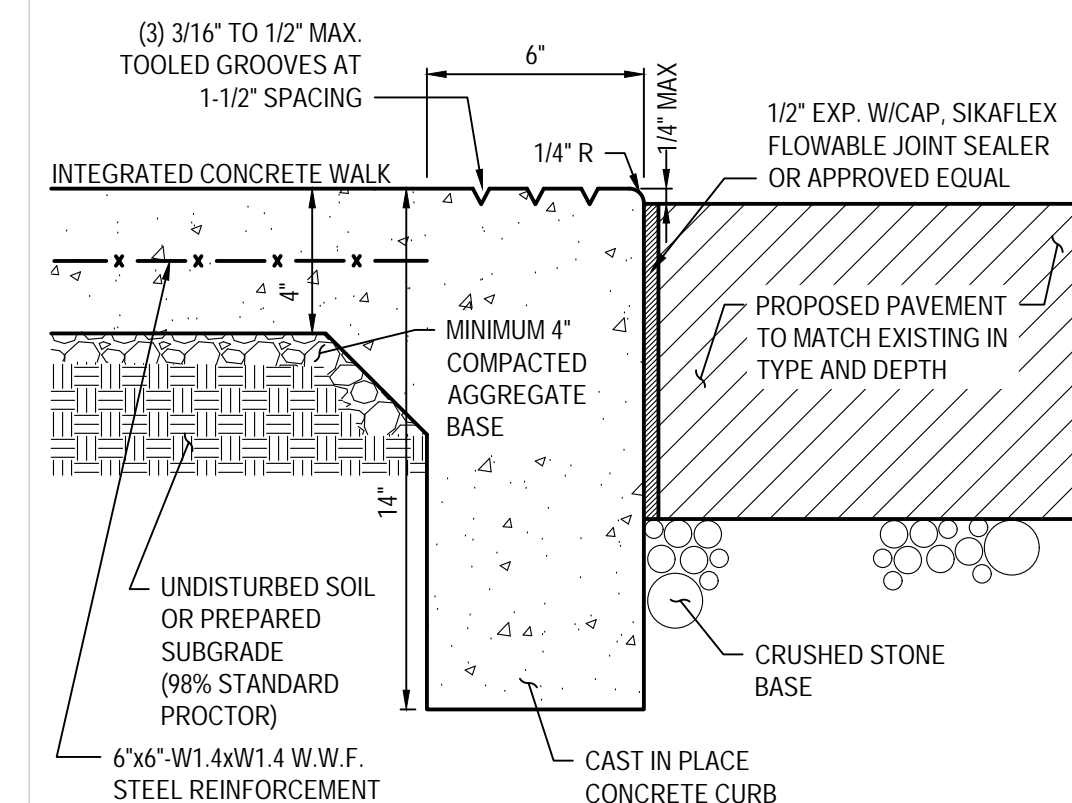
A-2 ADA ACCESSIBLE RAMP  
N.T.S.



A-4 TRANSVERSE STRIPING  
N.T.S.

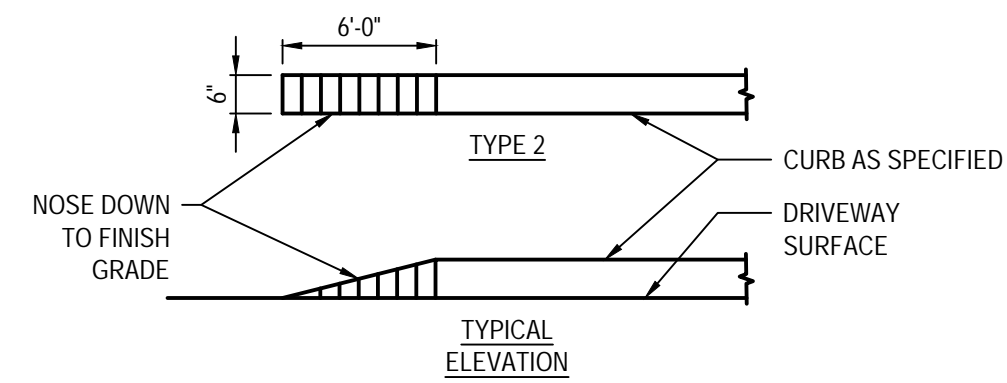


C-4 PRE-OVERLAY ASPHALT TREATMENT  
N.T.S.

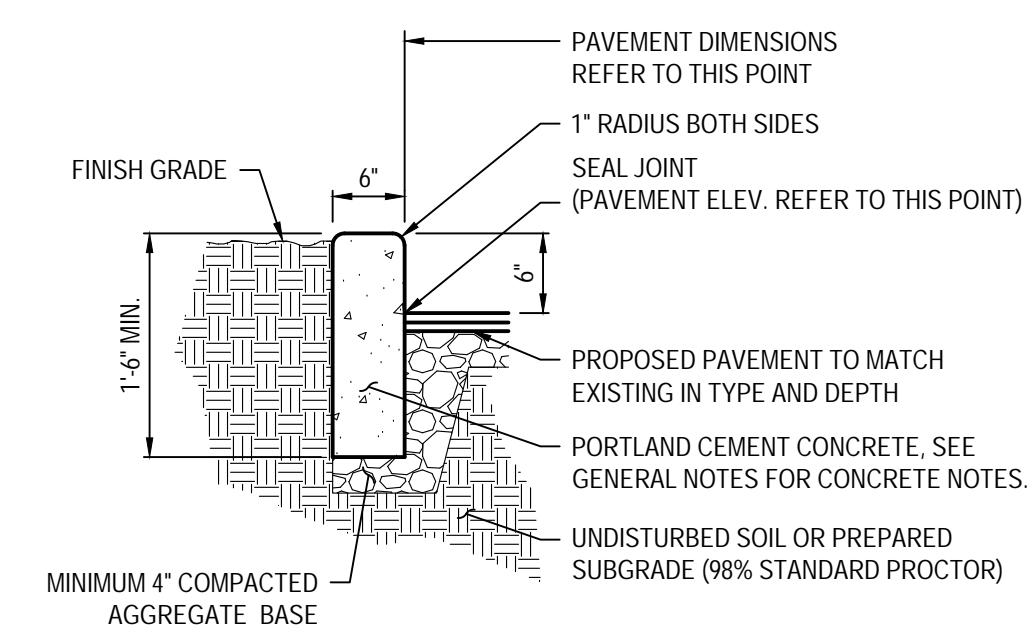


- NOTES:
1. REFER TO GENERAL NOTES FOR CONCRETE SPECIFICATION.
  2. SIDEWALK WIDTH AS SHOWN ON SITE PLAN.

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

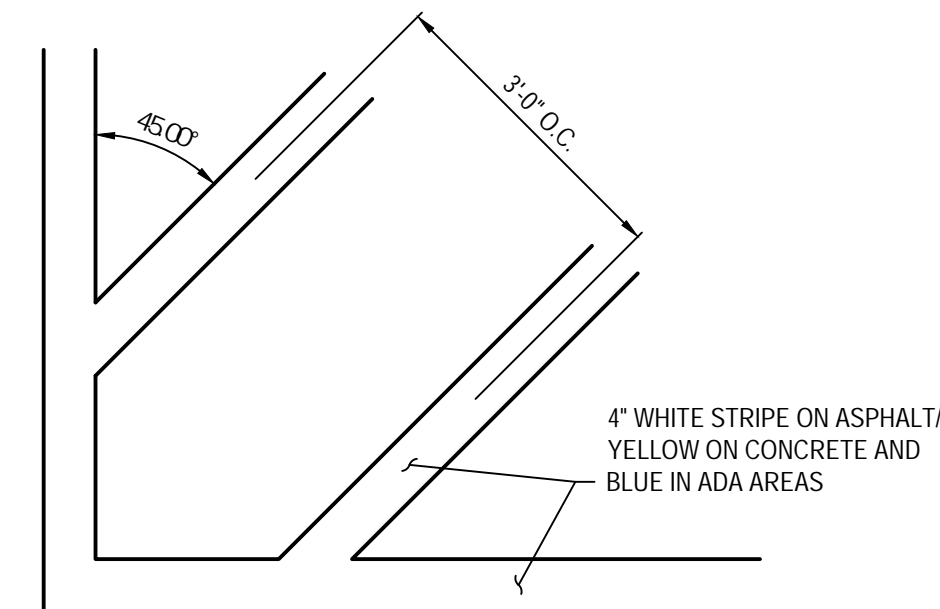


C-5 CONCRETE CURB TAPER  
N.T.S.



**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.



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

REV.	DATE	DESCRIPTION
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PRCNC20231632



EXPIRES 04/16/2026

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

PROJECT MANAGER	DESIGNER
IM	CPC

JOB NO.  
2023241.47

C-202



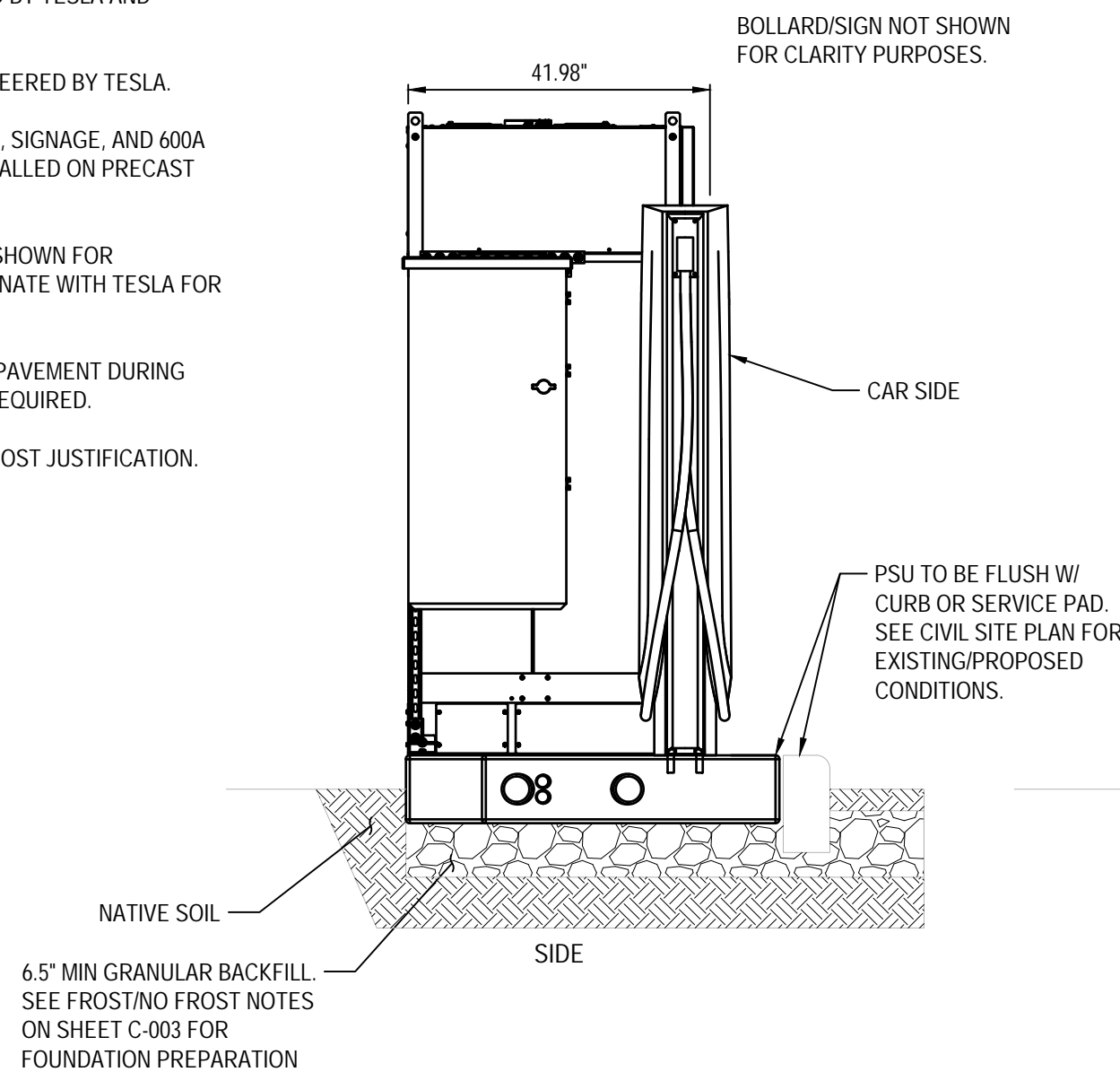
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January 17, 2025 7:49 AM - kbal

PRE-ASSEMBLED SUPERCHARGER UNIT NOTES:

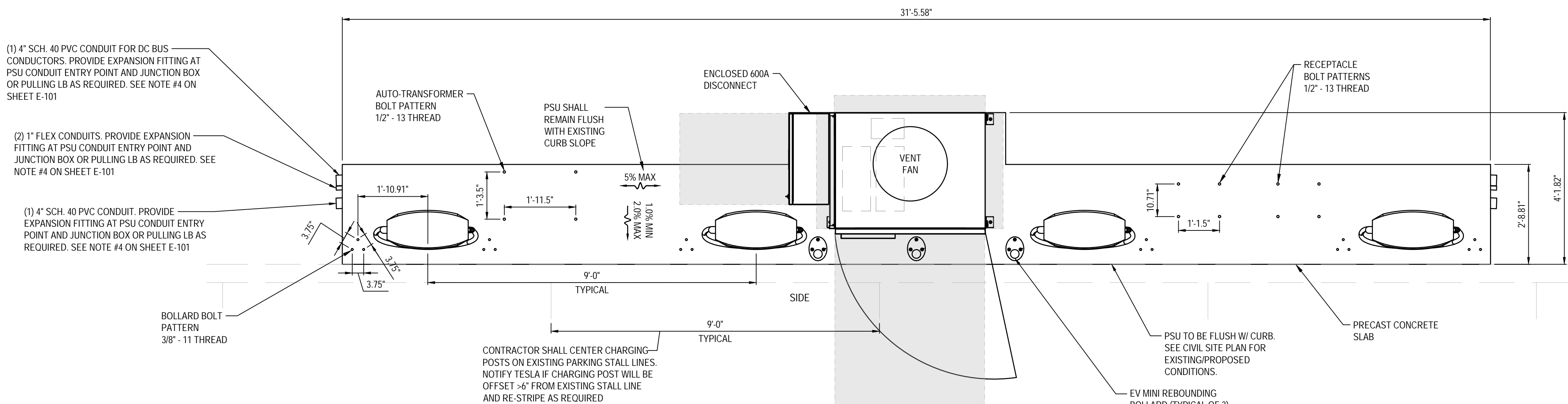
1. PRE-ASSEMBLED SUPERCHARGER UNIT SUPPLIED BY TESLA AND INSTALLED BY CONTRACTOR.
2. PRECAST CONCRETE SLAB DESIGNED AND ENGINEERED BY TESLA.
3. CHARGING CABINET, CHARGING POST, BOLLARDS, SIGNAGE, AND 600A DISCONNECT (IF APPLICABLE) ARE FACTORY INSTALLED ON PRECAST CONCRETE SLAB BY TESLA.
4. PRECAST CONCRETE FOUNDATION DIMENSIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH TESLA FOR EXACT DIMENSIONS AND SPECIFICATIONS.
5. CONTRACTOR TO PROTECT EXISTING CURB AND PAVEMENT DURING INSTALLATION OF PSU. REPAIR OR REPLACE AS REQUIRED.
6. REFER TO SITE PLAN FOR PSU PLACEMENT AND POST JUSTIFICATION.

TESLA CHARGING CABINET

ENCLOSURE: INGRESS PROTECTION IP66  
WEIGHT: 1110 kg, 2448 lbs.  
COMPLIANCE: UL 2202



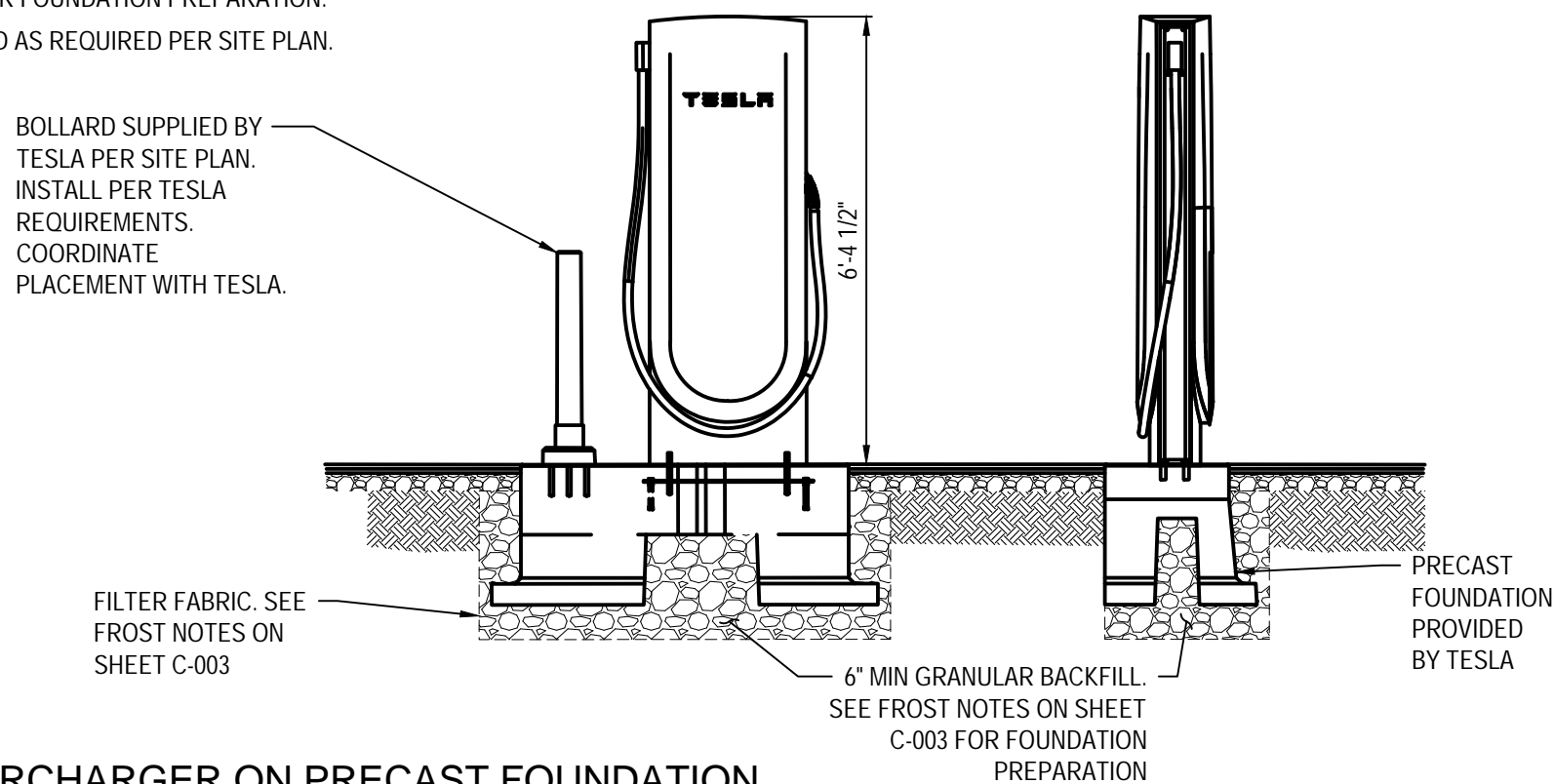
C-1 PRE-ASSEMBLED SUPERCHARGER UNIT (PSU) ELEVATION DETAIL  
N.T.S.



B-2 PRE-ASSEMBLED SUPERCHARGER UNIT (PSU) PLAN VIEW DETAIL  
N.T.S.

NOTES

1. PRECAST CONCRETE FOUNDATION DESIGNED & ENGINEERED BY OTHERS. FOUNDATION DESIGN FOR SUPERCHARGER POST IS NOT IN CONTRACT FOR THESE CONSTRUCTION DOCUMENTS.
2. PRECAST CONCRETE FOUNDATION SUPPLIED BY TESLA AND INSTALLED BY CONTRACTOR.
3. CHARGING POST SHALL BE ANCHORED TO PRE-INSTALLED THREADED INSERTS ON PRECAST FOUNDATION WITH 1/2\"/>

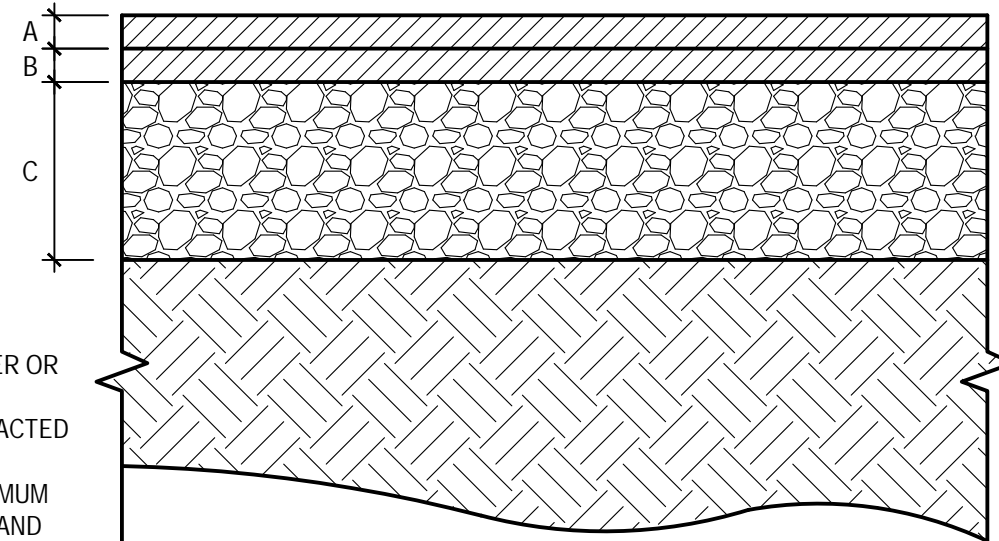


A-1 TESLA SUPERCHARGER ON PRECAST FOUNDATION  
N.T.S.

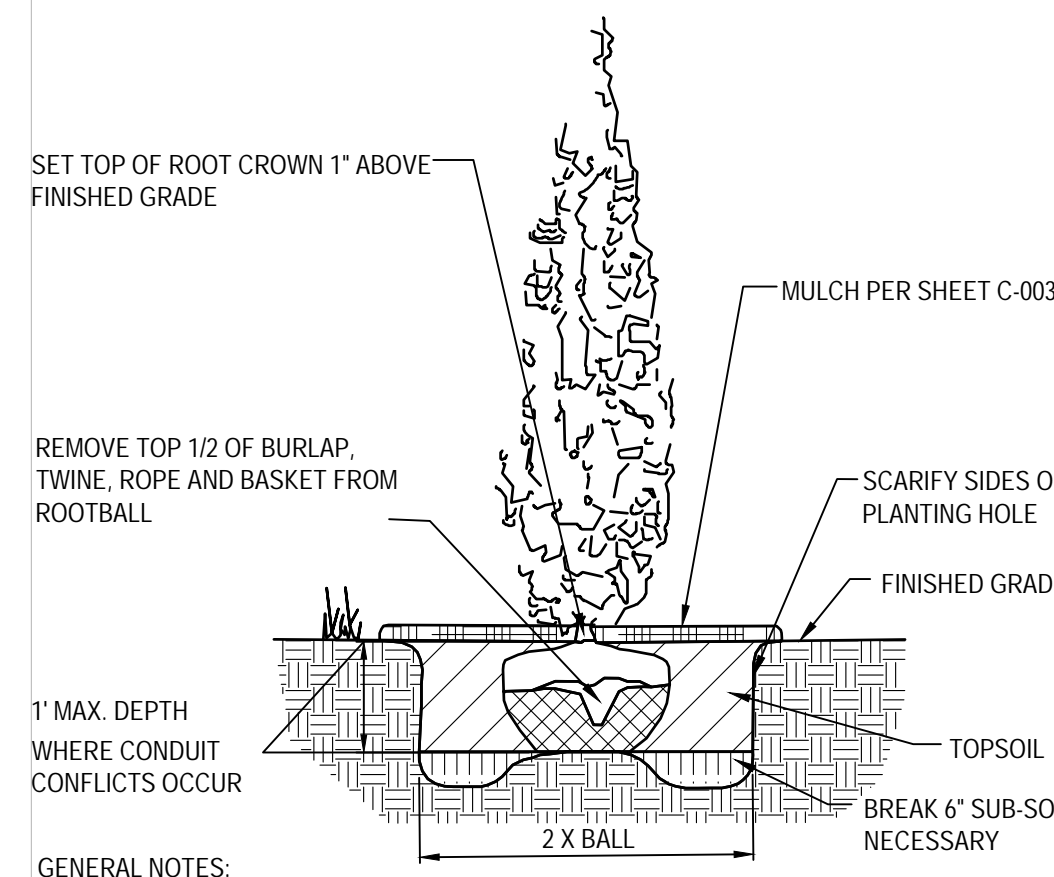
STANDARD DUTY PAVING  
A = 1.5\"/>

ASPHALT PAVING NOTES

1. SUBGRADE COMPACTION: TO BE EVALUATED BY QUALIFIED GEOTECHNICAL ENGINEER OR THEIR REPRESENTATIVE PRIOR TO GRANULAR SUBBASE.
2. BASE COURSE TO CONFORM TO (STATE DOT) STANDARDS FOR BASE COURSE COMPACTED TO 98% OF THE MODIFIED PROCTOR (ASTM D-1557) MAXIMUM DRY DENSITY
3. ALL SUBGRADE AND PAVEMENT OPERATIONS AND MATERIALS SHALL MEET THE MINIMUM REQUIREMENTS OF THE CURRENT DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS MANUAL OR EOR APPROVED ALTERNATIVE.
4. PROVIDE TACK COAT BETWEEN BASE COURSE AND SURFACE COURSE IF DEPARTMENT OF TRANSPORTATION SPECIFICATIONS REQUIRE OR CONDITIONS WARRANT.
5. FIELD VERIFY EXISTING PAVEMENT THICKNESS AND MATCH. VALUES LISTED ABOVE ARE THE MINIMUM PAVEMENT THICKNESS TO BE MET.
6. PROVIDE JOINT SEALER WHERE PROPOSED ASPHALT MEETS EXISTING ASPHALT.
7. PROVIDE PRIME COAT BETWEEN GRANULAR BASE AND ASPHALT.



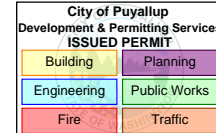
A-3 STANDARD DUTY ASPHALT PAVEMENT SECTION  
N.T.S.



GENERAL NOTES:

1. PRUNE ROOTS IF BALL IS ROOTBOUND. REMOVE ALL CONTAINERS AND NON-BIODEGRADABLE BURLAP. WHEN BACKFILLING PLANT PIT, PLACE PLANTING SOIL IN TWO LIFTS. AFTER FIRST LIFT, PUDDLE SOIL IN WITH WATER TO REMOVE ALL AIR POCKETS. PLACE SECOND LIFT AND CONTINUE TO PUDDLE AND FILL AS NECESSARY.
2. CONTRACTOR SHALL LOCATE NEW CHARGE POST CONDUITS PRIOR TO INSTALLING TREES AND SHRUBS. PLANT INSTALLATION SHALL NOT DAMAGE CONDUIT.

A-5 SCREENING SHRUB DETAIL  
N.T.S.



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

**GPD GROUP**  
Professional Corporation  
520 South Main Street, Suite 2631  
Akron, OH 44311  
330.572.2100 Fax 330.572.2101

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PRCNC20231632



EXPIRES 04/16/2026

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

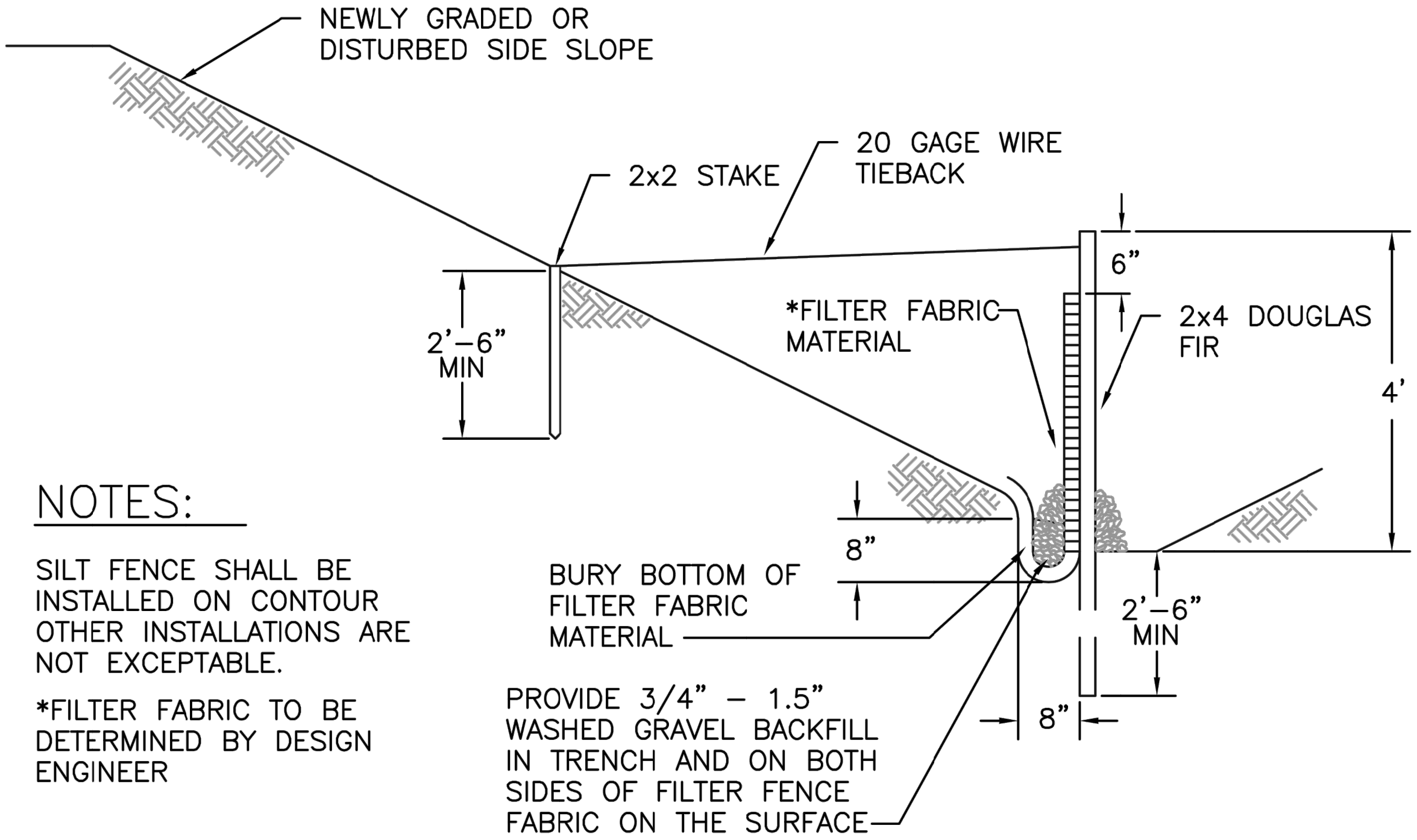
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IM	CPC

JOB NO.  
2023241.47

C-203



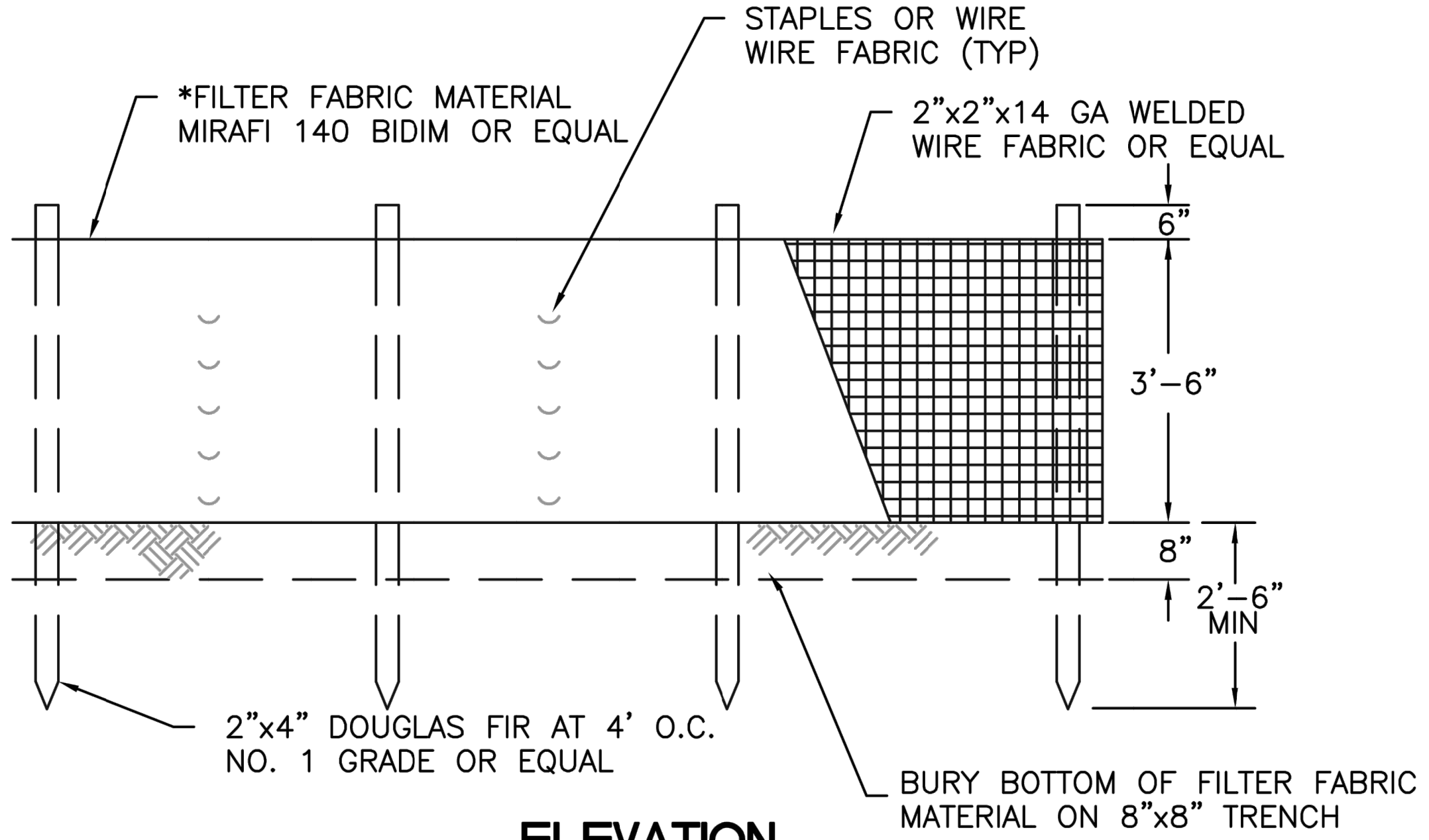
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January 17, 2025 7:49 AM - kball



NOTES:

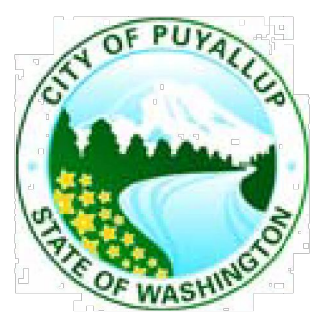
SILT FENCE SHALL BE INSTALLED ON CONTOUR. OTHER INSTALLATIONS ARE NOT EXCEPTABLE.  
\*FILTER FABRIC TO BE DETERMINED BY DESIGN ENGINEER

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 INCLUSVE. 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.



CITY OF  
PUYALLUP  
DEVELOPMENT ENGINEERING and  
PUBLIC WORKS DEPARTMENTS

DRAWN BY LINDA LANSING	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY XXXX	CITY STANDARD
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

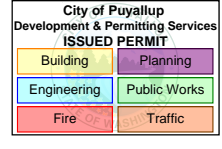


CITY OF  
PUYALLUP  
DEVELOPMENT ENGINEERING and  
PUBLIC WORKS DEPARTMENTS

GRADING, EROSION, AND  
SEDIMENTATION CONTROL NOTES

DRAWN BY JIM ERWIN-SVOBODA	CHECKED BY LINDA LIAN	APPROVED BY COLLEEN HARRIS	REVISED BY LINDA LIAN	CITY STANDARD
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

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



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FOR REFERENCE  
ONLY

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

CITY OF PUYALLUP GENERAL  
NOTES AND DETAILS

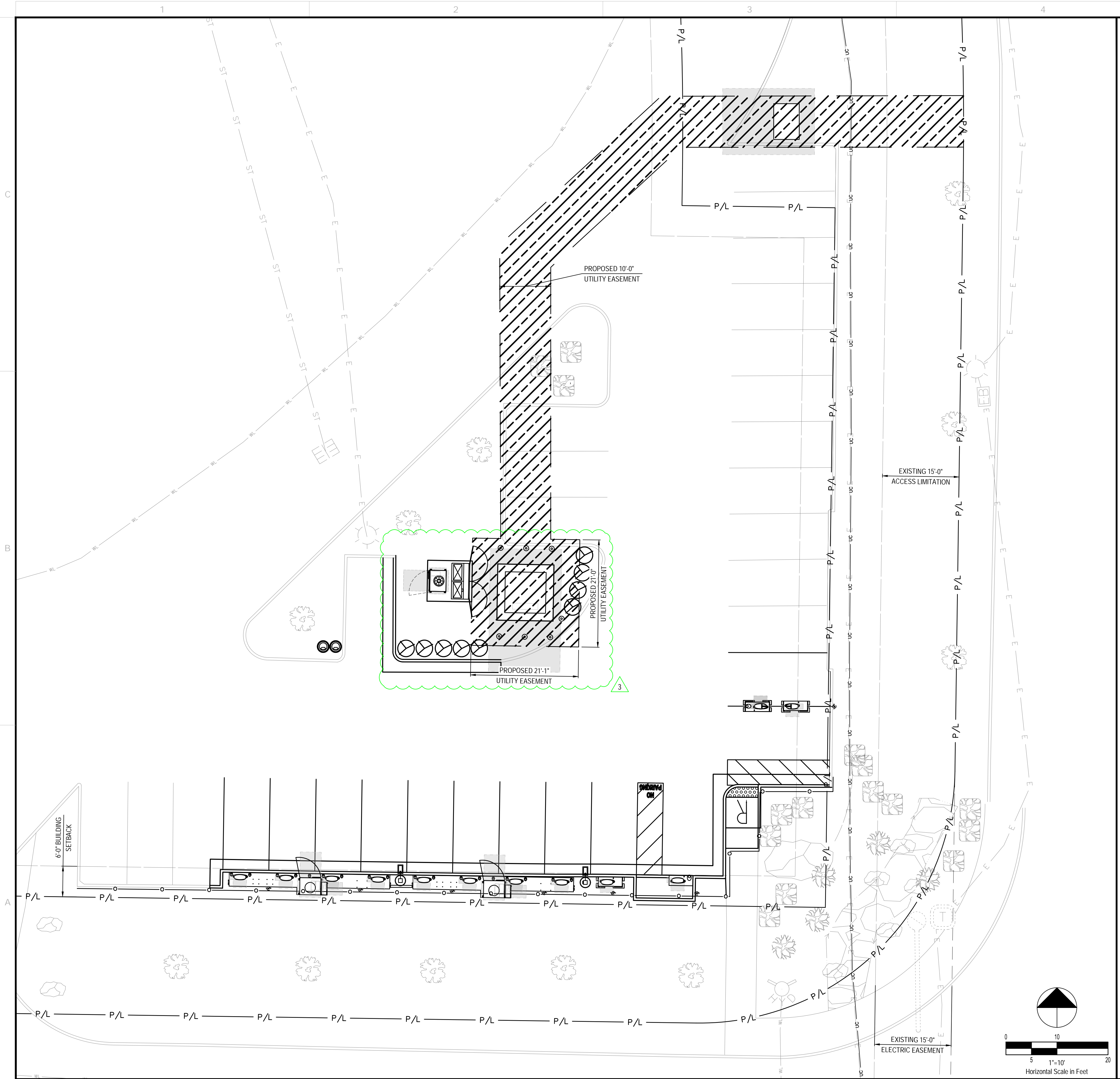
PROJECT MANAGER IM	DESIGNER CPC
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JOB NO.  
2023241.47

C-204



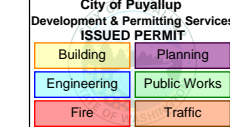
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January 17, 2025 7:49 AM - kball



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



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PALO ALTO, CA 94304  
(650) 681-5000

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

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01/17/25  
EXPIRES 04/16/2026

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



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A

B

C

GENERAL ELECTRICAL SPECIFICATION

- THE FOLLOWING ARE ABBREVIATED SPECIFICATIONS. ALL ITEMS NECESSARY FOR A COMPLETE AND OPERABLE JOB (TO THE SATISFACTION OF OWNER) WHETHER SHOWN OR IMPLIED SHALL BE HELD AS THE RESPONSIBILITY OF THE CONTRACTOR
- IMPORTANT NOTE:** "CONTRACTOR" REFERENCED IN THESE SPECIFICATIONS SHALL INDICATE WORK BY ELECTRICAL CONTRACTOR OR ANY OF HIS CONTRACTORS UNLESS NOTED OTHERWISE.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE INSTALLATION WITH OTHER TRADES TO VERIFY THE ACTUAL SPACE CONDITIONS THAT ARE TO BE MAINTAINED. NO ADDITIONAL PAYMENT WILL BE APPROVED FOR FAILURE TO COMPLY.
- ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS QUESTIONS REGARDING THEIR EXACT MEANING, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR SHALL NOT SCALE ELECTRICAL DRAWINGS. REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT AND CONFIRM WITH CONSTRUCTION MANAGER ANY SIZES AND LOCATIONS WHEN NEEDED.
- CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE ALL ITEMS DEFINED IN THE CONTRACT DOCUMENTS. THE CONTRACT DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: THE CONTRACT, SPECIFICATIONS, AND CONSTRUCTION DRAWINGS. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO INSTALL ALL ELECTRICAL EQUIPMENT, CONDUIT, WIRING ETC. AS SHOWN OR IMPLIED ON THE DRAWINGS AND TO PROVIDE A COMPLETE OPERATIVE SYSTEM TO THE SATISFACTION OF OWNER.
- CONTRACTOR SHALL PROVIDE ON-SITE SUPERVISION AT ALL TIMES WHILE THE WORK IS BEING PERFORMED AND SHALL DIRECT ALL WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- INSTALLATION OF ALL ELECTRICAL EQUIPMENT, DEVICES, CONDUITS, ETC. MUST BE COORDINATED WITH ALL OTHER TRADES. COORDINATE SHUTDOWN TIMES AND WORKING HOURS WITH BUILDING OWNER, INCLUDING OFF HOURS, WEEKEND, AND HOLIDAY WORK AS REQUIRED.
- ANY DISCREPANCIES FOUND WITHIN THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE OWNER IN WRITING PRIOR TO THE AWARD OF THE CONTRACT AND AN ADDENDUM WILL BE ISSUED TO COVER SAME.
- GUARANTEE** - CONTRACTOR SHALL FURNISH OWNER WITH A WRITTEN GUARANTEE TO PROMPTLY REMEDY ALL DEFECTS OF WORK OR MATERIALS WITHOUT CHARGE FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE AND INSPECTION.
- MATERIALS** - ALL MATERIALS AND EQUIPMENT SHALL BE NEW, IN ORIGINAL CONTAINERS/WRAPPINGS, SHALL BE SPECIFICATION GRADE, AND LABELED OR LISTED BY U.L. OR AN ACCREDITED TESTING ORGANIZATION AS REQUIRED BY LOCAL INSPECTORS.
- CONTRACTOR SHALL PROVIDE ADEQUATE AND REQUIRED LIABILITY INSURANCE FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK
- ALL EQUIPMENT SHALL BE DESIGNED TO OPERATE ON VOLTAGE AND PHASE SPECIFIED. CONTRACTOR FURNISHING EQUIPMENT OTHER THAN INDICATED SHALL BE RESPONSIBLE FOR ANY CHANGES IN CONDUCTORS, RACEWAYS, SWITCHES, MAIN FEEDERS, AND APPURTENANCES AND PAY ALL ASSOCIATED COSTS. REQUIREMENTS FOR ANY INCREASE IN CAPACITIES SHALL BE REVIEWED BY ENGINEER.
- 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 OWNERS' CONFIRMATION, ETC. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY WORK.
- ANY METAL SHAVINGS FROM SITE WORK SHALL BE CLEANED FROM ALL SURFACES WHERE OXIDIZED OR CONDUCTIVE METAL SHAVINGS MAY CAUSE RUST, ELECTRICAL SHORT CIRCUITS, OR OTHER DAMAGES.

LICENSES, CERTIFICATIONS OF INSPECTION

- CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF ALL GOVERNING AGENCIES THAT REQUIRE SITE INSPECTION OF THE WORK AND/OR SIMPLY NOTIFICATION. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSPECTIONS NECESSARY FOR PERFORMANCE OF THE WORK.
- CONTRACTOR AND ALL OF HIS CONTRACTORS THAT PERFORM ANY WORK ON THIS PROJECT SHALL BE CURRENTLY LICENSED BY ALL AGENCIES WHICH GOVERN OVER THE LAND(S) ON WHICH CONSTRUCTION IS TO TAKE PLACE. CONTRACTOR SHALL SECURE ALL PERMITS AND INSPECTIONS AS REQUIRED. ALL COSTS SHALL BE BORNE BY CONTRACTOR.
- THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, LICENSES AND INSPECTIONS INCIDENTAL TO WORK UNDER THIS CONTRACT. WHEN THE WORK IS COMPLETED, THE REQUIRED CERTIFICATES OF APPROVAL SHALL BE FURNISHED TO THE BUILDING OWNER. CONTRACTOR MUST BE LICENSED IN THE STATE, COUNTY AND CITY OF THE PROJECT SITE.

CODES AND ORDINANCES

- ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH LATEST EDITION OF NEC AND ALL APPLICABLE CODES AND ORDINANCES, INCLUDING SUCH AS PERTAIN TO THE SAFETY AND HEALTH RELATIONS. CODES AND ORDINANCES SHALL TAKE PRECEDENCE OVER THE DRAWINGS AND SPECIFICATIONS ONLY IN CASE OF CONFLICT AND SHALL INCLUDE BUT NOT BE LIMITED TO:
  - UL - UNDERWRITERS LABORATORIES
  - NEC - NATIONAL ELECTRICAL CODE
  - NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
  - OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
  - SBC - STANDARD BUILDING CODE
  - NFPA - NATIONAL FIRE CODES

POST CONSTRUCTION AND PROJECT CLOSEOUT DOCUMENTATION

- AS-BUILT REQUIREMENTS:** DO NOT USE RECORD DOCUMENTS FOR CONSTRUCTION PURPOSES. TO PROTECT RECORD DOCUMENTS FROM DETERIORATION AND LOSS, STORE IN A SECURE, FIRE-RESISTANT LOCATION. PROVIDE ACCESS TO RECORD DOCUMENTS FOR THE OWNER'S REFERENCE DURING NORMAL WORKING HOURS. MAINTAIN A CLEAN, UNDAMAGED SET OF BLUE OR BLACK LINE PRINTS OF CONTRACT DRAWINGS AND SHOP DRAWINGS. MARK THE SET TO SHOW THE ACTUAL INSTALLATION WHERE THE INSTALLATION VARIES SUBSTANTIALLY FROM THE WORK AS ORIGINALLY SHOWN. MARK DRAWINGS THAT ARE MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY. WHERE SHOP DRAWINGS ARE USED, RECORD A CROSS-REFERENCE AT THE CORRESPONDING LOCATION ON THE CONTRACT DRAWINGS. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE. MARK RECORD SETS WITH RED ERASABLE PENCIL. USE OTHER COLORS TO DISTINGUISH BETWEEN VARIATIONS IN SEPARATE CATEGORIES OF THE WORK. MARK NEW INFORMATION THAT IS IMPORTANT TO THE OWNER BUT WAS NOT SHOWN ON THE CONTRACT DRAWINGS, DETAILS OR SHOP DRAWINGS. NOTE RELATED CHANGE ORDER NUMBERS WHERE APPLICABLE. NOTE RELATED RECORD DRAWING INFORMATION AND PRODUCT DATA. UPON COMPLETION OF THE WORK, SUBMIT ONE (1) COMPLETE SET OF RECORD DOCUMENTS TO THE CONSTRUCTION MANAGER FOR THE OWNER'S RECORDS. CONTRACTOR SHALL SUBMIT AS-BUILT SET OF PLANS TO THE ENGINEER WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION.

EXISTING CONDITIONS AND DEMOLITION

- ALL ELECTRICAL DEMOLITION WORK, INCLUDING MATERIAL REMOVAL FROM THE SITE, SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. BEFORE PROCEEDING WITH THE DEMOLITION WORK, THE CONTRACTOR SHALL OBTAIN FROM THE BUILDING OWNER A LIST OF ANY REMOVED ITEMS TO BE SALVAGED. ALL OTHER REMOVED MATERIALS AND EQUIPMENT SHALL BE PROPERLY DISCARDED OFF THE PREMISES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PROPERTY RESULTING FROM THE CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SITE AT THE COMPLETION OF WORK.
- EXISTING UTILITIES AND CONDITIONS ARE SHOWN FROM FIELD DATA AND EXISTING DOCUMENTS AND ARE NOT NECESSARILY COMPLETE OR ACCURATE. ALL FIELD CONDITIONS SHALL BE VERIFIED BY CONTRACTOR BEFORE START OF CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, EXPOSE, AND DETERMINE IF CONFLICTS EXIST WITH THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL NOTIFY THE OWNER IN ORDER TO RESOLVE ANY CONFLICTS. EXISTING ELECTRICAL CONDUIT, WIRING, ETC. DAMAGED DURING RENOVATION SHALL BE REPLACED IN LIKE KIND AND CHARACTER, AND AT THE EXISTING UTILITY LINES, DRAIN OR FIELD TILE DAMAGED SHALL BE REPAIRED OR REPLACED, AS NEEDED, IN LIKE KIND AND CHARACTER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING CONDUITS, CONTROL WIRING, ETC., WHETHER SHOWN HEREON OR NOT, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES FOR REPAIR OR REPLACEMENT OF PROPERTY DAMAGED IN CONJUNCTION WITH THE EXECUTION OF WORK.
- THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY CONFLICTS OR DISCREPANCIES IN THE CONTRACT DOCUMENTS OR FIELD CONDITIONS PRIOR TO EXECUTING THE WORK IN QUESTION. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF DETAILS ARE CONSIDERED UNSOUND, UNSAFE, NOT WATERPROOF, OR NOT WITHIN CUSTOMARY TRADE PRACTICE. IF WORK IS PERFORMED, IT WILL BE ASSUMED THAT THERE IS NO OBJECTION TO THE DETAIL. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.
- SITE VISIT** - CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK. NO EXTRAS WILL BE PERMITTED FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS. QUANTITIES OF MATERIALS SHALL BE PER CONTRACTOR'S MEASUREMENTS.

BASIC ELECTRICAL MATERIALS AND METHODS

- WHERE STRUCTURAL OPENINGS ARE NOT AVAILABLE, THE CONTRACTOR SHALL CORE DRILL OR CUT CHASES IN WALLS AND FLOORS AS REQUIRED. ALL NEW OPENINGS SHALL BE COORDINATED WITH THE ENGINEER. ALL PENETRATIONS OF THE BUILDING WALLS, CEILING AND FLOORS, THE CONTRACTOR SHALL SEAL WITH QUALITY CAULK, FIRE RATED AND WATERTIGHT, SUBMITTED FOR APPROVAL BY THE OWNER.
- TRASH REMOVAL:** CONTRACTOR SHALL REMOVE ALL TRASH CREATED BY HIMSELF OR HIS CONTRACTORS DUE TO DEMOLITION OR CONSTRUCTION. THE CONTRACTOR SHALL ALSO REMOVE TRASH CREATED BY OTHER CONTRACTORS INCLUDING CABLE REELS, CARDBOARD BOXES AND PACKING. PROMPTLY CLEAN-UP ALL SOILING, DEBRIS AND OTHER UNSIGHTLY OR HAZARDOUS CONDITIONS, CAUSED BY WORK OR DELIVERIES UNDER THIS CONTRACT, FROM THE BUILDING GROUNDS, ENTRIES, CORRIDORS, STAIRWAYS, ELEVATORS OR OTHER PUBLIC AREAS. ALL SHALL BE REMOVED FROM THE SITE IN A TIMELY FASHION TO A LEGAL DISPOSAL FACILITY.
- SIGNAGE:** CONTRACTOR SHALL MAINTAIN SECURITY AROUND PERIMETER OF CONSTRUCTION SITE DURING ALL HOURS BY INSTALLING A TEMPORARY RIBBON FOR INTERIOR WORK TO IDENTIFY CONSTRUCTION AREAS AS REQUIRED. SIGNAGE SHALL BE POSTED WITH NOTIFICATIONS OF "NO TRESPASSING" AND "CONSTRUCTION AREA".
- CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD. UNLESS SPECIFICALLY NOTED, DO NOT FABRICATE ANY MATERIALS OFF SITE, NOR DO ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAVE BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CUTTING, SUBSEQUENT PATCHING, AND REQUIRED FLASHING FOR ALL ITEMS NECESSARY FOR ELECTRICAL PART OF THE CONTRACT. PATCH, PAINT, AND REPAIR ANY AREA DAMAGED TO THE SATISFACTION OF THE BUILDING OWNER.
- THE EXACT LOCATIONS OF ALL ELECTRICAL DEVICES, EQUIPMENT AND CONDUIT, AS SHOWN ON THE DRAWING, IS APPROXIMATE. WHEN NOT SHOWN IN DETAIL, THE EXACT LOCATION OR ROUTING SHALL BE DETERMINED BY THE CONTRACTOR, SUBJECT TO THE APPROVAL OF OWNER.
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING, BACKING, FRAMING, HANGERS OR OTHER SUPPORT FOR THE MOUNTING AND SUPPORT OF ALL ITEMS REQUIRING THE SAME AS REQUIRED BY N.E.C.
- TRENCHING AND BACK FILL:** CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION.
- WHEN DIRECTIONAL BORING IS REQUIRED, CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT TO ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.
- ALL BOLTS SHALL BE STAINLESS STEEL.
- FOR UNDERGROUND RACEWAYS, PROVIDE ADDITIONAL SLACK IN CONDUCTORS AND CONDUIT EXPANSION JOINTS IN ORDER TO ALLOW FOR EARTH MOVEMENT FROM SETTLEMENT, FROST, ETC. IN ORDER TO PREVENT DAMAGE TO THE CONDUCTORS OR TO THE EQUIPMENT CONNECTED TO THE RACEWAYS PER THE NEC.

ELECTRICAL EQUIPMENT

- ALL EQUIPMENT SHALL BE DESIGNED TO OPERATE ON VOLTAGE AND PHASE SPECIFIED. CONTRACTOR FURNISHING EQUIPMENT OTHER THAN INDICATED SHALL BE RESPONSIBLE FOR ANY CHANGES IN CONDUCTORS, RACEWAYS, SWITCHES, MAIN FEEDERS, AND APPURTENANCES AND PAY ALL ASSOCIATED COSTS. REQUIREMENTS FOR ANY INCREASE IN CAPACITIES SHALL BE REVIEWED BY ENGINEER.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED, OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY HEALTH ADMINISTRATION.

FIRESTOPPING AND SEALING ELECTRICAL PENETRATIONS

- CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOPPING FOR SEALING AROUND ELECTRICAL PENETRATIONS THROUGH FIRE OR SMOKE BARRIERS, AND FLOORS.
- PROVIDE SHOP DRAWINGS OF EACH CONDITION REQUIRING PENETRATION SEALS AND THE PROPOSED UL SYSTEMS MATERIALS, ANCHORAGE, METHODS OF INSTALLATION, AND ACTUAL ADJACENT CONSTRUCTION. SUBMITTAL PACKAGE SHALL ALSO INCLUDE A COPY OF THE UL ILLUSTRATION OF EACH PROPOSED SYSTEM INDICATING MANUFACTURER APPROVED MODIFICATIONS (IF APPLICABLE) AND THE MANUFACTURER'S SPECIFICATIONS, RECOMMENDATIONS, INSTALLATION INSTRUCTIONS, AND MAINTENANCE INSTRUCTIONS.
- FIRESTOPPING MATERIALS** SHALL BE INTUMESCENT SAFETY BARRIERS DESIGNED TO BLOCK THE SPREAD OF FIRE AND SMOKE THROUGH PENETRATIONS CREATED BY ELECTRICAL INSTALLATIONS IN FIRE RATED WALLS AND FLOORS. MATERIALS SHALL BE FLAME, TOXIC FUME, AND WATER RESISTANT AND SHALL HAVE A MINIMUM 3 HOUR FIRE RATING. FIRE RATING SHALL BE DEFINED BY TESTS CONDUCTED BY ASTM, UL OR OTHER TESTING AND INSPECTION AGENCIES ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.
- PROVIDE MATERIALS BY THE FOLLOWING MANUFACTURERS TO SUIT THE APPLICATION: SPECIFIED TECHNOLOGIES, INC (STI), SOMERVILLE, NJ; TREMCO, INC., BEACHWOOD, OH; OR 3M INC., MINNEAPOLIS, MN

FAULT CURRENT, COORDINATION STUDY, AND ARC FLASH

- REFER TO GENERAL SHEET NOTES ON SHEET E-201 FOR FAULT CURRENT, COORDINATION STUDY, AND ARC FLASH REQUIREMENTS.

GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS

- ALL RACEWAYS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE N.E.C. AND ANY LOCAL CODES.
- ALL CONDUITS SHALL CONTAIN A CODE SIZE GROUNDING CONDUCTOR.
- EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED WITH GREEN-COLORED INSULATION.
- GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED CABLE.
- MATERIALS AND CONNECTION COMPONENTS FOR GROUNDING AND BONDING SHALL BE MANUFACTURED BY ERICO, THOMAS & BETTS, OR BURNDY.
- GROUND-FAULT PROTECTION OF EQUIPMENT SHALL BE PROVIDED FOR SERVICE DISCONNECTS RATED 1000A OR MORE. THE GROUND-FAULT PROTECTION SYSTEM SHALL BE PERFORMANCE TESTED WHEN FIRST INSTALLED ON SITE AND PRIOR TO EQUIPMENT ENERGIZATION PER NEC 230.95. THE TEST SHALL BE CONDUCTED IN ACCORDANCE WITH INSTRUCTIONS THAT SHALL BE PROVIDED WITH THE EQUIPMENT. A WRITTEN RECORD OF THIS TEST SHALL BE MADE AND SHALL BE AVAILABLE TO THE AUTHORITY HAVING JURISDICTION.
- ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 1/8" STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- NUT & WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE. INSTALL BLACK HEAT-SHRINKING TUBE, ON ALL GROUND TERMINATIONS. THE INTENT IS TO WEATHERPROOF THE COMPRESSION CONNECTION.
- ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).
- ALL GROUNDING HARDWARE SUPPLIED AND INSTALLED BY CONTRACTOR.

ELECTRICAL IDENTIFICATION

- PROVIDE NAMEPLATES FOR ALL MAJOR ELECTRICAL EQUIPMENT AND ON EQUIPMENT AS DIRECTED BY OWNER.
- PROVIDE ALL FEEDERS AND BRANCH CIRCUIT WIRING WITH COLOR CODED VINYL TAPE WRAPPED A MINIMUM OF 1.5 TIMES AROUND CIRCUMFERENCE OF JACKET/SHIELDING TO DESIGNATE PHASE.
- COLOR CODING OF CONDUCTORS SHALL BE PER NEC REQUIREMENTS.
- 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 BURIED ELECTRIC"

CONDUCTORS AND CABLES

- WIRING - ALL CONDUCTORS SHALL BE EQUAL TO OR BETTER THAN MINIMUM #12 AWG FOR POWER, #14 AWG FOR CONTROL WITH 98% CONDUCTIVITY STRANDED COPPER, 600V, COLOR CODED, UNLESS NOTED OTHERWISE. FOR ALUMINUM (AL), REFER TO "ALUMINUM CONDUCTOR REQUIREMENTS" THIS SHEET. PROVIDE 75°C RATED CONDUCTORS FOR AMPACITIES ABOVE 100A AND 60°C RATED CONDUCTORS FOR AMPACITIES OF 100 AMPS OR LESS. PROVIDE SOLID OR STRANDED FOR #10 AWG AND SMALLER, STRANDED FOR #8 AWG AND LARGER, UNLESS NOTED OTHERWISE ON DRAWINGS.
- WIRE SIZE OF BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP BASED UPON ACTUAL CONDUIT ROUTING. CONTRACTOR SHALL MAINTAIN VOLTAGE DROP AS RECOMMENDED BY N.E.C. (NOT TO EXCEED 3%).
- PROVIDE A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT, FEEDER, ETC. NEUTRALS ARE NOT PERMITTED TO BE SHARED.
- CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.
- CABLES - MC CABLE IS NOT PERMITTED.
- PROVIDE WIRE AND CABLE MANUFACTURED BY ONE OF THE FOLLOWING: AMERICAN INSULATED WIRE CORPORATION; NEXANS; CERROWIRE; SOUTHWIRE; OR ENCORE WIRE.
- PROVIDE CONNECTORS MANUFACTURED BY ONE OF THE FOLLOWING: AMP INCORPORATED; GENERAL SIGNAL, O-Z/GEDNEY UNIT; SQUARE D COMPANY, ANDERSON; ILSCO; OR BURNDY

ALUMINUM CONDUCTOR REQUIREMENTS

- ALUMINUM CONDUCTOR GRADE SHALL BE MINIMUM AA-8000 OR THE NEWEST ALUMINUM CONDUCTOR SPECIFICATION BEING USED BY THE INDUSTRY.
- THE CONTRACTOR SHALL ABIDE BY ALL ARTICLES RELATED TO ALUMINUM CONDUCTORS IN THE LATEST ISSUE OF THE NEC.
- ALUMINUM CONDUCTORS SHALL ONLY BE TERMINATED USING ALUMINUM RATED CONNECTIONS. CONTRACTOR SHALL VERIFY TERMINATIONS ON EACH DEVICE OR EQUIPMENT BEFORE START OF WORK FOR RATED ALUMINUM CONNECTORS.
- ALL ALUMINUM (AL) CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION IF RECOMMENDED BY MANUFACTURER. ALL OTHER CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL ABIDE BY ALL ALUMINUM WIRING INSTALLATION STANDARDS AS REQUIRED BY THE NEIS ( NATIONAL ELECTRICAL INSTALLATION STANDARDS) PUBLISHED BY THE NECA ( NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION), THE CONTRACTOR SHALL ABIDE BY ALL STANDARDS IN THE NECA / AA - 2006, WHICH DEFINES MINIMUM STANDARDS OF QUALITY AND WORKMANSHIP. A SUMMARY OF SOME OF THE REQUIREMENTS FOLLOW:
  - TERMINATE WITH COMPRESSION CONNECTORS, NO RING CUTS OF THE INSULATION, CRIMP ONLY WITH A CRIMP TOOL AND THE CORRECT DIE AS REQUIRED BY THE MANUFACTURER.
  - ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION IF RECOMMENDED BY MANUFACTURER.
  - TERMINATING WITH A SET SCREW CONNECTOR, THE SCREW SHALL BE TIGHTENED USING ONLY A TORQUE WRENCH.
  - NECA / AA RECOMMENDS BELLVILLE WASHERS WHEN CONNECTING ALUMINUM CONNECTORS TO COPPER BUS BARS. ABIDE BY ALL NECA / AA RECOMMENDATIONS.
  - DO NOT USE PIN CONNECTORS (WIRE ADAPTERS) UNLESS ABSOLUTELY NECESSARY. USE ALL/ANY OTHER OPTIONS, AND IF REQUIRED, PROVE TO ENGINEER BEFORE INSTALLING. IF USED, FOLLOW UL GUIDE FOR WIRE CONNECTORS (ZMOW), AND PROVIDE THE SPECIAL TOOLS REQUIRED BY THE MANUFACTURER. DIE-LESS CRIMPERS WILL NOT BE ACCEPTED.

RACEWAY AND BOXES

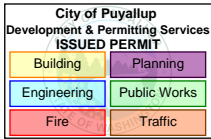
- RACEWAYS: UNLESS NOTED OTHERWISE, ALL EXPOSED CONDUIT SHALL BE I.M.C. AND COVERED 6" BELOW FINISHED GRADE TO BE PVC, HDPE, OR LFNC. SEE NOTES A & B BELOW. PROVIDE WEATHERPROOF FLEX CONNECTIONS WHERE REQUIRED. CONTRACTOR SHALL PROVIDE JUNCTION AND/OR PULL BOXES WHERE SHOWN ON THE DRAWINGS, OR AS REQUIRED, WHETHER SHOWN ON THE DRAWINGS OR NOT, AND SIZED PER N.E.C. PROVIDE NON-METALLIC ENCLOSURE WITH OPEN BOTTOM AND GASKETED COVER MANUFACTURED BY QUATIZE OR EQUIVALENT WITH DRIVE-OVER COVER ABLE TO WITHSTAND OCCASIONAL NON-DELIBERATE LIGHT VEHICULAR TRAFFIC. LABEL COVER TO SUIT INSTALLATION (I.E. "POWER" "COMMUNICATIONS", "LIGHTING", ETC.) AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  - OUTDOOR:
    - ABOVE GRADE: I.M.C.
    - BELOW GRADE: SCH 40 PVC, SCH 40 HDPE, OR NON-METALLIC FLEXIBLE CONDUIT LISTED FOR DIRECT BURIAL. ALL UNDERGROUND CONDUIT SHALL BE 90°C WET RATED AND INSTALLED BELOW GRADE PER NEC. VERIFY APPROVED USE OF HDPE WITH AHJ PRIOR TO ROUGH-IN AND INSTALL PER NEC & MFR RECOMMENDATIONS.
  - PARKING GARAGES:
    - IMC: 8'-0" OR LESS ABOVE GRADE OR PARKING GARAGE FLOOR LEVEL
    - EMT: 8'-0" MINIMUM ABOVE PARKING GARAGE FLOOR LEVEL AND WHERE NOT SUBJECT TO DAMAGE. CONTRACTOR SHALL VERIFY WITH ELECTRICAL INSPECTOR IF EMT IS APPROVED AT THIS PROJECT PRIOR TO ROUGH-IN.
- ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE A MINIMUM OF 3/4".
- CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. CONTRACTOR SHALL PROVIDE MANUFACTURED LONG RADIUS BENDS FOR ALL CONDUITS. RGS 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".
- OUTLET BOXES SHALL BE CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- PROVIDE METAL CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ALFLEX CORPORATION; ANAMET INCORPORATED; ANACONDA METAL HOSE; ANIXTER BROTHERS INCORPORATED; CAROL CABLE COMPANY INCORPORATED; ELECTRI-FLEX COMPANY; GRINNELL COMPANY, ALLIED TUBE AND CONDUIT DIVISION; MONOGRAM COMPANY, AFC; REPUBLIC CONDUIT; OR WHEATLAND TUBE COMPANY.
- PROVIDE NONMETALLIC CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ANAMET INCORPORATED, ANACONDA METAL HOSE; CANTEX INDUSTRIES, HARSCO CORPORATION; CONDUX INTERNATIONAL, ELECTRICAL PRODUCTS; HUBBELL INCORPORATED, RACO, INCORPORATED; THOMAS & BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS; OR O-Z/GEDNEY, UNIT OF GENERAL SIGNAL.
- PROVIDE CONDUIT BODIES AND FITTINGS MANUFACTURED BY ONE OF THE FOLLOWING: CROUSE-HINDS, DIVISION OF COOPER INDUSTRIES; EMERSON ELECTRIC COMPANY, APPLETON ELECTRIC COMPANY; HUBBELL INCORPORATED, KILLARK ELECTRIC MANUFACTURING COMPANY; THOMAS & BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS; OR O-Z/GEDNEY, UNIT OF GENERAL SIGNAL.
- PROVIDE METAL WIREWAYS MANUFACTURED BY ONE OF THE FOLLOWING: HOFFMAN ENGINEERING COMPANY; KEYSTONE/REES, INCORPORATED; OR SQUARE D COMPANY.
- PROVIDE BOXES, ENCLOSURES, AND CABINETS MANUFACTURED BY ONE OF THE FOLLOWING: CROUSE-HINDS, DIVISION OF COOPER INDUSTRIES; HOFFMAN ENGINEERING COMPANY, FEDERAL-HOFFMAN INCORPORATED; HUBBELL INCORPORATED, RACO INCORPORATED; THOMAS & BETTS, CARLON ELECTRICAL PRODUCTS; O-Z/GEDNEY, UNIT OF GENERAL SIGNAL; ROBROY INDUSTRIES INCORPORATED, ELECTRICAL DIVISION; OR SCOTT FETZER COMPANY, ADALET-PLM.

SAFETY SWITCHES

- ALL DISCONNECT SWITCHES SHALL BE HEAVY-DUTY CONSTRUCTION WITH LOCKABLE HANDLES SIZED AS NOTED ON THE DRAWINGS AND/OR RISER DIAGRAM. PROVIDE NEMA ENCLOSURE AS REQUIRED BY EXPOSURE TYPE. ALL FUSIBLE SWITCHES SHALL BE PROVIDED WITH DUAL ELEMENT FUSES SIZED PER THE EQUIPMENT MANUFACTURER'S RECOMMENDATION.

FUSES

- FUSES SHALL BE DUAL ELEMENT, TIME DELAY CURRENT LIMITING. CONTRACTOR SHALL COORDINATE FUSE SIZES WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS AND PER THE N.E.C. PROVIDE FUSES MANUFACTURED FROM ONE OF THE FOLLOWING: COOPER BUSSMAN, INCORPORATED; EAGLE ELECTRIC MANUFACTURING COMPANY INCORPORATED, COOPER INDUSTRIES INCORPORATED; FERRAZ SHAWMUT INCORPORATED, LITTELFUSE INCORPORATED.



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



REV.	DATE	DESCRIPTION
A	08/11/2023	ISSUED FOR 50% 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 ILL COMMENTS
2	12/30/2024	ADDRESSED TESLA COMMENTS
3	01/17/2025	ADDRESSED TESLA COMMENTS

PRCNC20231632



01/17/25

EXPIRES 02/03/2026

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

ELECTRICAL  
GENERAL NOTES

PROJECT MANAGER	DESIGNER
IM	CPC

JOB NO.  
2023241.47

E-001





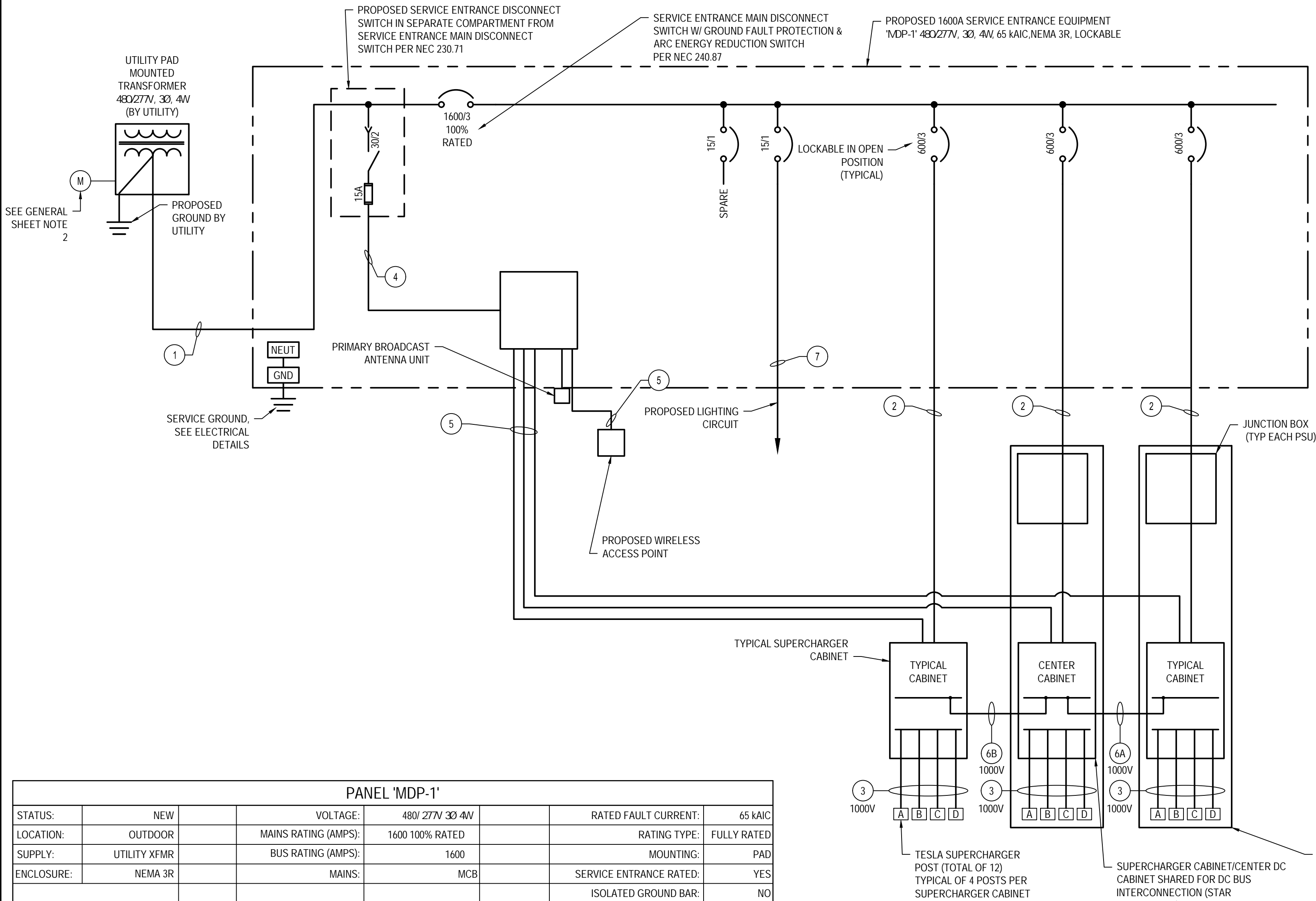


Drawing Name: C:\2023\2023241\47 - TR1 27473 - South Hill Mall (Target) Puyallup, WA\dwg\2023241 47 - Puyallup, WA - S&S PSU.dwg  
January 17, 2025 7:49 AM - kbal

PANEL 'MDP-1'										
STATUS:	NEW		VOLTAGE:		480/ 277V 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			MOUNTING:		PAD
ENCLOSURE:	NEMA 3R		MAINS:		MCB			SERVICE ENTRANCE RATED:		YES
								ISOLATED GROUND BAR:		NO
CKT #	TOTAL PER PHASE (kVA)									CKT #
	DESCRIPTION	LOAD	AMPS/POLES	A	B	C	AMPS/POLES	LOAD	DESCRIPTION	
1	TESLA SUPERCHARGER CABINET	129.00	600/3	258.00			600/3	129.00	TESLA SUPERCHARGER CABINET	2
3		129.00			258.00			129.00		4
5		129.00				258.00		129.00		6
7	TESLA SUPERCHARGER CABINET	129.00	600/3	129.00				0.00	SPACE	8
9		129.00			129.00			0.00		10
11		129.00				129.00		0.00		12
13	SPACE	0.00		0.00				0.00	SPACE	14
15		0.00			0.00			0.00		16
17		0.00				0.00		0.00		18
19	SPACE	0.00		0.00				0.00	SPACE	20
21		0.00			0.00			0.00		22
23		0.00				0.00		0.00		24
25	SPACE	0.00		0.00				0.00	SPACE	26
27		0.00			0.00			0.00		28
29		0.00				0.00		0.00		30
31	SPACE	0.00		0.00				0.00	SPACE	32
33		0.00			0.00			0.00		34
35		0.00				0.00		0.00		36
37	LED LIGHT POLE	0.28	15/1	0.28				0.00	SPACE	38
39	CONTROLS COMPARTMENT	0.23	3Ø/2		0.23			0.00		40
41		0.23				0.23		0.00		42
		TOTAL KVA		387.28	387.23	387.23	TOTAL CONN KVA		1161.74	
		TOTAL AMPS		1398.12	1397.94	1397.94	TOTAL CONN AMPS		1397.36	
				% UNBALANCE	0.1%	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 MANUFACTURERS RECOMMENDATIONS WITH SERVICE EQUIPMENT.
- OCPP 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.



SYSTEM PLACARDS

TESLA SUPERCHARGER  
3310 S MERIDIAN ST.  
PUYALLUP, WA

PLACE ON FRONT  
OF SWITCHBOARD

TESLA EV SYSTEM  
DISCONNECT

PLACE ON SWITCHBOARD  
MAIN DISCONNECT

WARNING  
TESLA EV SYSTEM CONTROLLER  
(TSC) IS STILL LIVE WHEN EV SYSTEM  
DISCONNECT IS IN THE "OFF"  
POSITION. TSC DISCONNECT  
LOCATED BEHIND PANEL.

ATTACH ON EXTERIOR OF TESLA  
SYSTEM CONTROLLER PANEL AT  
CABINET SERVICE DISCONNECT

- PLACARD NOTES:
- PLACARDS TO BE MADE OF RED PHENOLIC PLASTIC W/ 1" WHITE LETTERING.
  - ATTACH PLACARDS WITH RIVETS OR SELF-TAPPING SCREWS.
  - ADDITIONAL PLACARDS REQUIRED FOR ARC FLASH LABELS.

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 ON SWITCHGEAR.
- ALL CONDUIT FURNISHED AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE.
- ALL WIRING FURNISHED BY TESLA AND INSTALLED BY CONTRACTOR UNLESS NOTED OTHERWISE. SEE ELECTRICAL SITE PLAN FOR UTILITY/CONTRACTOR SCOPE OF WORK.
- THE TESLA PROVIDED SUPERCHARGER CABINETS AND THE 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.

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 PER CABINET 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 AL (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.
6A	(2) SETS IN WIREWAY (PROVIDED BY TESLA) (2) 600 MCM AI (ONE +, ONE -) (1) #3/0 AWG AI DC MID (1) #1/0 AWG Cu GND TERMINATIONS/ASSEMBLIES ARE 90° RATED PROVIDE EXPANSION FITTING BETWEEN PSU AND WIREWAY CONNECTION
6B	(2) SETS OF 3" CONDUIT EACH WITH (2) 600 MCM AI (ONE +, ONE -) (1) #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) #10 AWG Cu NEUT (THWN-2) (1) #10 AWG Cu Gnd (THWN-2)

NOTES:

- ALL AC CONDUCTORS SHALL BE XHHW-2, 600V RATED, UNLESS NOTED OTHERWISE
- ALL DC CONDUCTORS SHALL BE XHHW-2, 1000V RATED, UNLESS NOTED OTHERWISE
- SEE "RACEWAY AND BOXES" NOTES ON SHEET E-001 FOR CONDUIT USE TYPES FOR ABOVE AND BELOW GRADE APPLICATIONS

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%.

BREAKER SETTINGS									
USE	SIZE	LONG TIME CURVE	LONG TIME PICKUP	LONG TIME DELAY	SHORT TIME PICKUP	SHORT TIME DELAY	INST	GROUND FAULT PICKUP	GROUND FAULT 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.

EVSE 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 KA

MINIMUM EQUIPMENT GROUNDING CONDUCTOR SIZE		
AMPERE RATING OR SETTING OF OCPD IN CIRCUIT AHEAD OF EQUIPMENT	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**  
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Professional Corporation  
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Akron, OH 44311  
330.572.2100 Fax 330.572.2101

REV.	DATE	DESCRIPTION
A	08/11/2023	ISSUED FOR 50% 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	ADRESSED COMMENTS PER CITY OF PUVALUP
1	10/10/2024	ADRESSED ILL COMMENTS
2	12/30/2024	ADRESSED TESLA COMMENTS
3	01/17/2025	ADRESSED TESLA COMMENTS

PRCNC20231632



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

PROJECT MANAGER	DESIGNER
IM	CPC

JOB NO.  
**2023241.47**

**E-201**

**SINGLE LINE DIAGRAM  
& PANEL SCHEDULE**







Drawing Name: O:20230224147 - TRT 27473 - South Hill Mail (Target) Puyallup, WA King 0224147 - Puyallup, WA - S&S PSU.dwg  
January 17, 2025 7:49 AM - kball

### 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

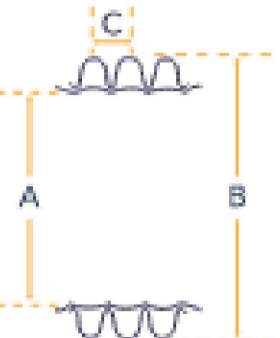
#### REEL PACKAGING FOR SMOOTH-COR FLEX

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 Tup	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.



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WWW.DURALINE.COM



DL.SMOOTH-COR-FLEX-7.24 US



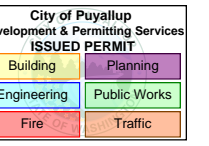
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DL.SMOOTH-COR-FLEX-7.24 US

TESLA

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FOR REFERENCE ONLY

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