



# TESLA

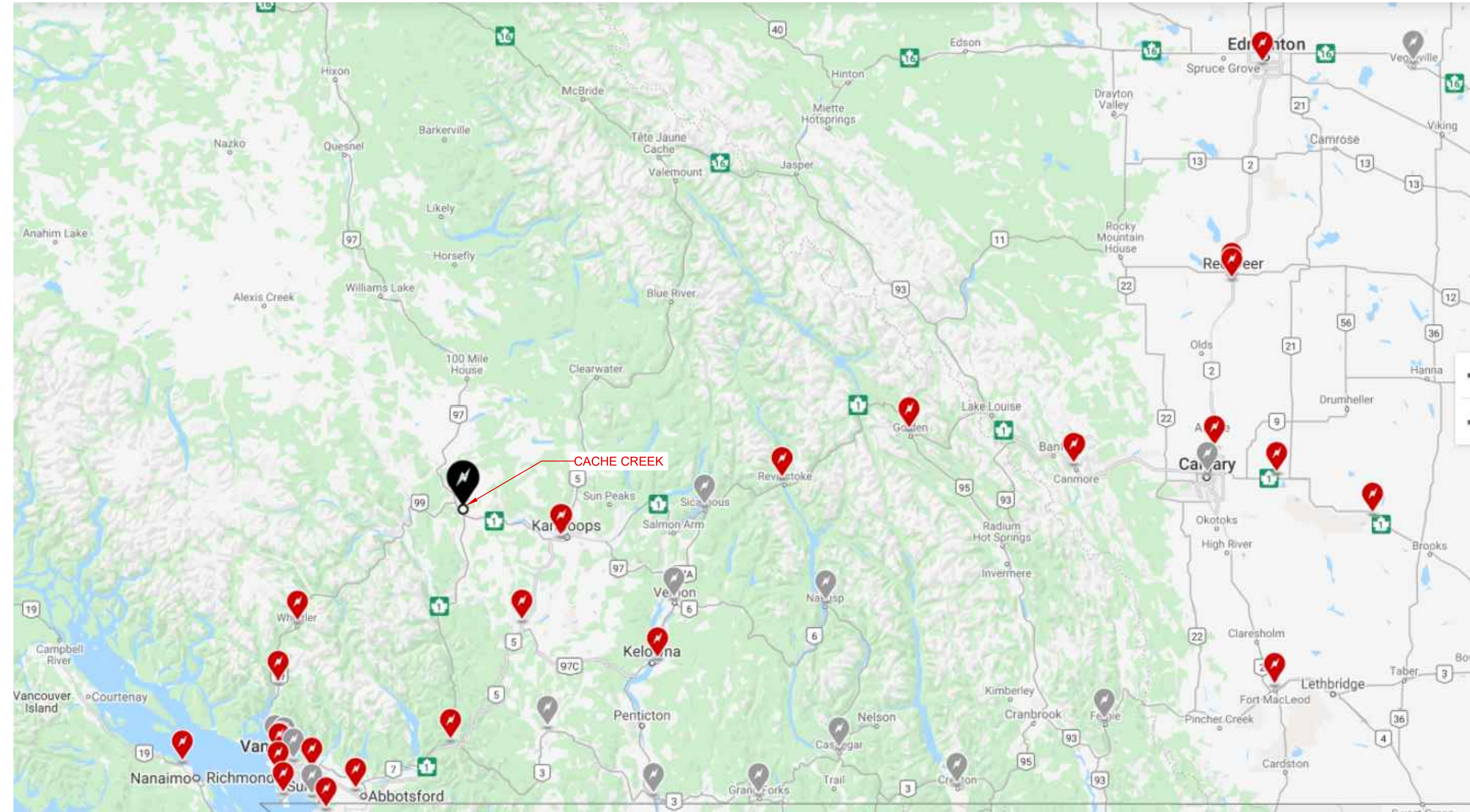
## CACHE CREEK SUPERCHARGER SITE 1270 STAGE ROAD CACHE CREEK, BC

SITE INFORMATION	
TESLA SITE CONTACT	JASE ZAMPINI, ing. P.Eng.
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PROPERTY OWNER	VILLAGE OF CACHE CREEK
PROPERTY CONTACT	MARTIN DALSIN
	CAO@CACHECREEK.INFO
	(250) 457-6237
ELECTRICAL UTILITY	BC HYDRO
UTILITY CONTACT	CHRIS CHOLEWA
	CHRIS.CHOLEWA@BCHYDRO.COM
	(250) 371-6985

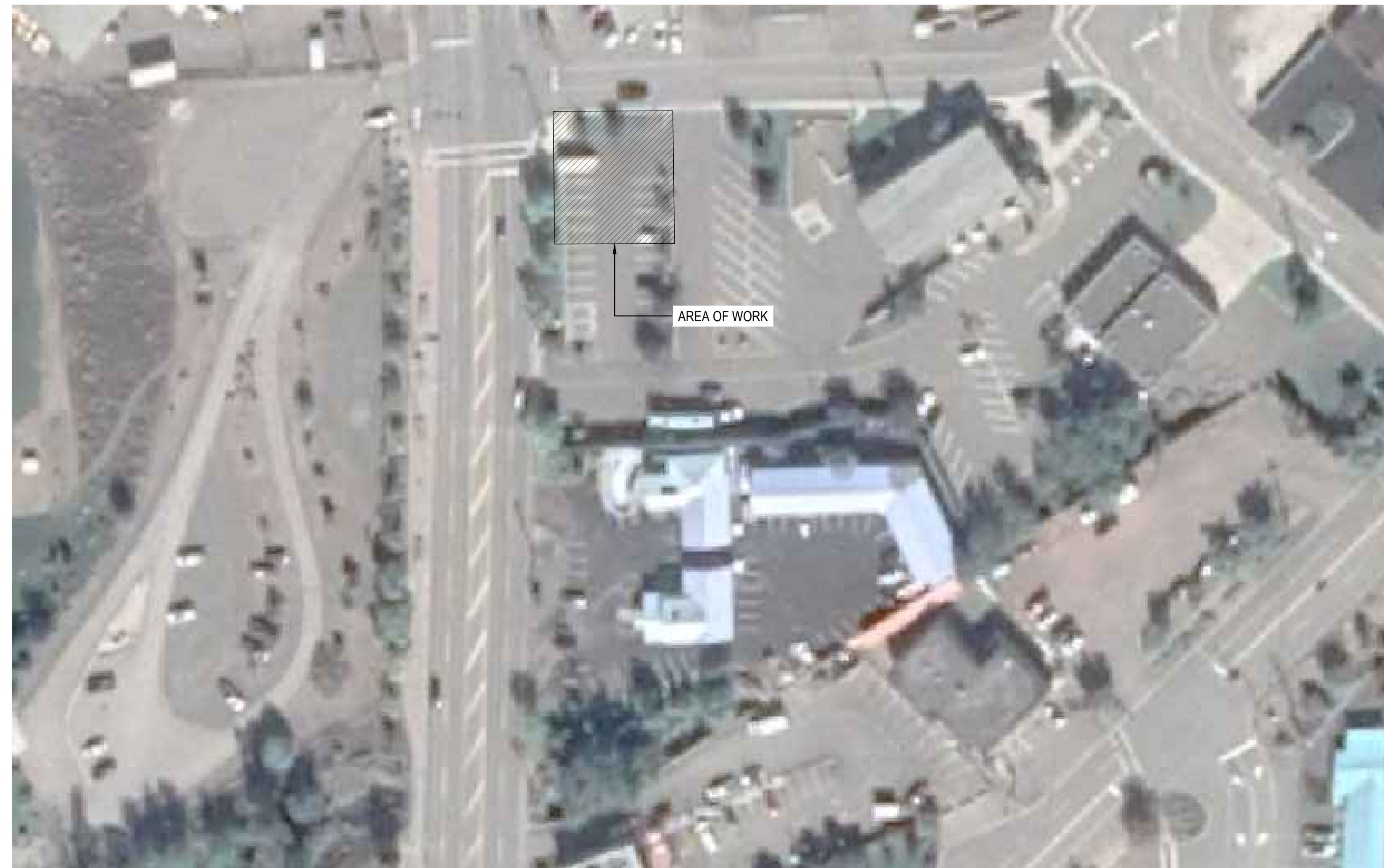
CONSULTING TEAM	
ELECTRICAL/ PRIME CONSULTANT	AES ENGINEERING LTD.
	CHRIS FONTAINE, P.Eng.
	CHRIS.FONTAINE@AESENGR.COM
STRUCTURAL	SENSE ENGINEERING
	Y.J. (YONG-JOON) LEE, P.Eng.
	YJLEE@SENSEENGINEERING.COM
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DRAWING LIST	
E-00	COVER PAGE, SYMBOL LEGEND, DRAWING LIST AND KEY PLAN
E-01	SITE PLAN AND EQUIPMENT LAYOUT
E-02	TRENCHING LAYOUT
E-03	TRENCHING DETAILS (1 OF 2)
E-04	TRENCHING DETAILS (2 OF 2)
E-05	CHARGEPOST STUB UP DETAIL AND ELEVATION
E-06	STRUCTURAL FOOTING CONDUIT STUB UP DETAILS
E-07	GROUNDING LAYOUTS AND DETAILS
E-08	SIGNAGE AND CHARGEPOST PLACEMENT
E-09	APPROXIMATE CABLE AND CONDUIT LENGTHS TABLES
E-10	UTILITY LAYOUT & RESPONSIBILITIES BREAKDOWN AND PROCUREMENT TABLE
E-11	SINGLE LINE DIAGRAM
E-12	SERVICE ENTRANCE SWITCHBOARD DETAILS
E-13	TESLA V3 SUPERCHARGER CABINET DETAILS (1 OF 2)
E-14	TESLA V3 SUPERCHARGER CABINET DETAILS (2 OF 2)
E-15	TESLA V3 CHARGEPOST AND SITE CONTROLLER DETAILS
E-16	STALL, TESLA SIGNAGE, LIGHT POST DETAILS AND LUMINAIRE SCHEDULE
E-17	ELECTRICAL SPECIFICATIONS
S1	GENERAL NOTES & EQUIPMENT BASE DETAILS
S2	EQUIPMENT BASE DETAILS
604-U07-07010	BC HYDRO DESIGN DRAWINGS
APPENDIX A	SWITCHBOARD, 450kVA AND 75kVA TRANSFORMER SHOP DRAWINGS (TEN SHEETS)

SYMBOL LEGEND	
SINGLE LINE	
	TESLA V3 SUPERCHARGER CABINET
	TESLA V3 SUPERCHARGER POST
	CIRCUIT BREAKER
	METER
	UTILITY TRANSFORMER
	AUTOTRANSFORMER
	LIGHT
LAYOUT	
	TESLA V3 SUPERCHARGER CABINET
	TESLA V3 SUPERCHARGER POST
	TESLA COMBINATION BOLLARD/SIGN POST
	TESLA COMBINATION BOLLARD/SIGN POST WITH BURIED CONCRETE BASE
	SINGLE HEADED LIGHT POST WITH SIGNAGE
	FLO SMARTDC DC FAST CHARGER
	BOLLARD
	BOLLARD WITH BURIED CONCRETE BASE



1  
E-00  
NTS  
SUPERCHARGER SITE LOCATION

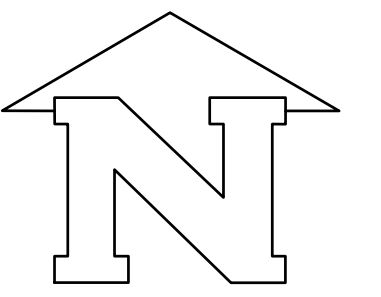


2  
E-00  
NTS  
KEY PLAN

Contractor must check and verify all dimensions and conditions on site and report any discrepancies to designer and/or engineer prior to proceeding with work

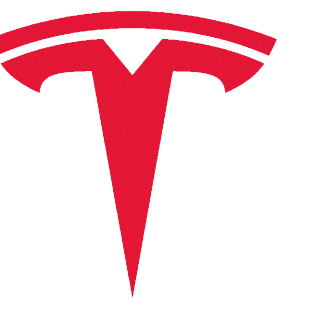
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PROJECT NORTH

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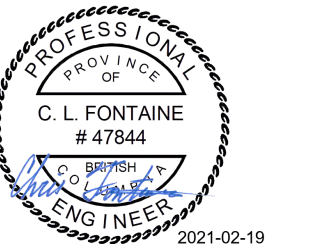


TESLA

ELECTRICAL ENGINEERS:



505 Burrard Street, Suite 900, Vancouver, BC V7X 1M4  
604-569-8500 | www.aesengr.com  
CALGARY | VANCOUVER | VICTORIA



REV	DESCRIPTION	DATE
7	ISSUED FOR INFORMATION	FEB 19, 2021
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3	ISSUED FOR INFORMATION	DEC 10, 2020
2	ISSUED FOR INFORMATION	NOV 13, 2020
1	ISSUED FOR COORDINATION	AUG 26, 2020

PROJECT NAME:

TESLA CACHE CREEK  
SUPERCHARGER  
INSTALLATION

PROJECT ADDRESS:

1270 STAGE ROAD  
CACHE CREEK, BC V0K 1H0

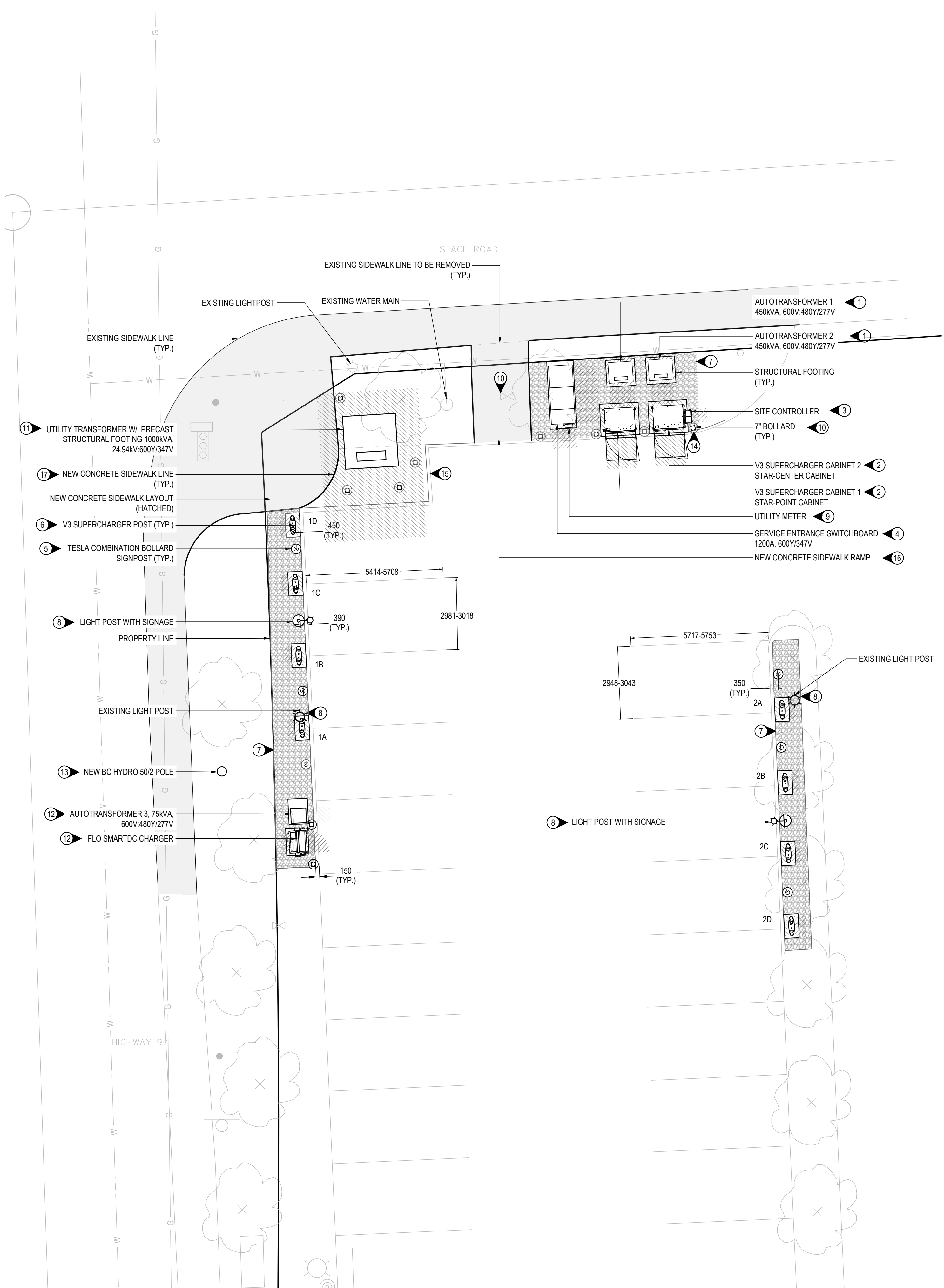
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COVER PAGE, SYMBOL  
LEGEND, DRAWING LIST  
AND KEY PLAN

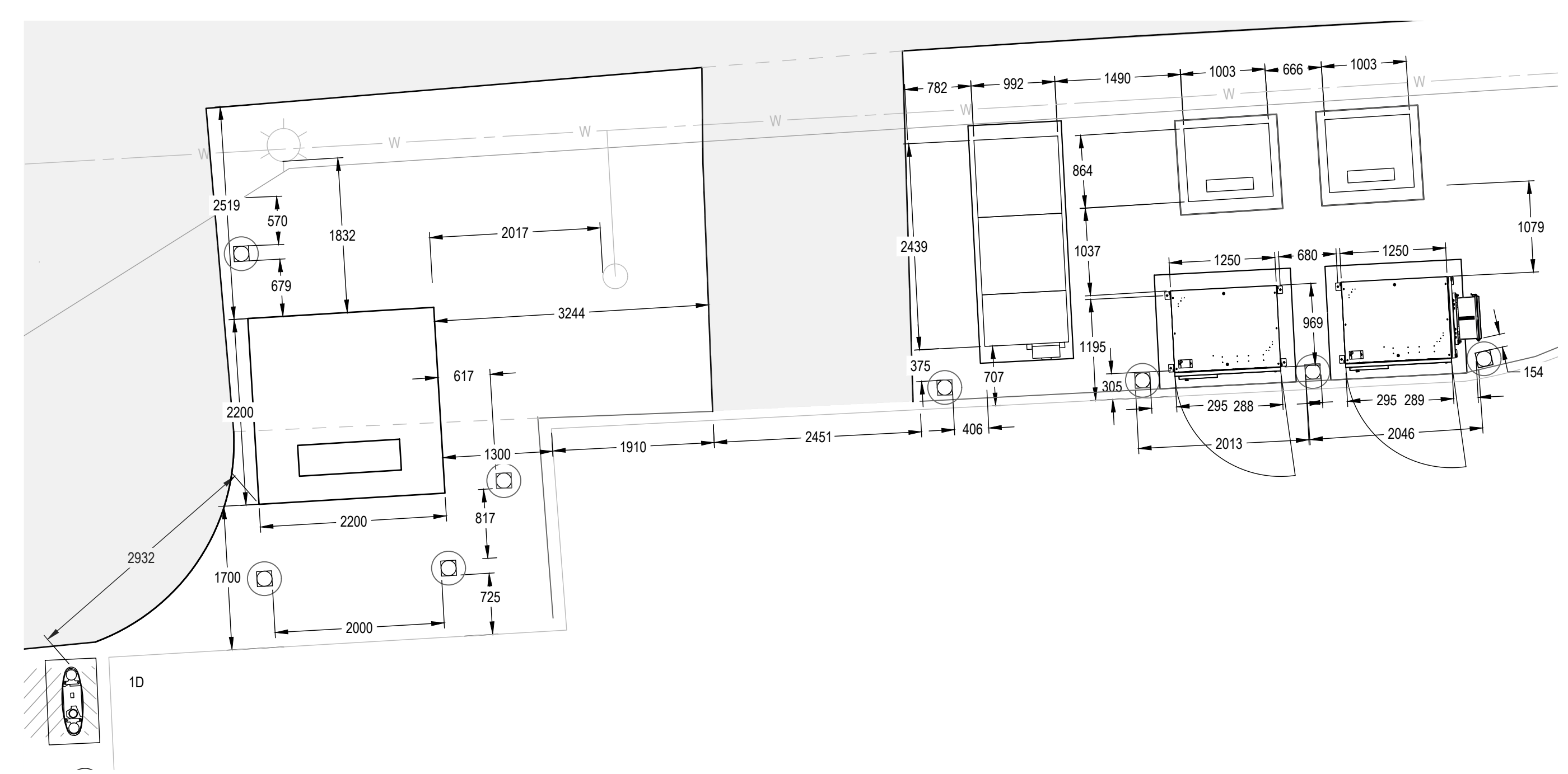
DATE:	AUGUST 2020
SCALE:	N/A
DRAWN BY:	SX
CHECKED BY:	CF
JOB NUMBER:	2-20-363

DRAWING NUMBER:

E-00



**1 SITE PLAN**  
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**2 EQUIPMENT LAYOUT**  
 0 1000 2000 3000 1:50

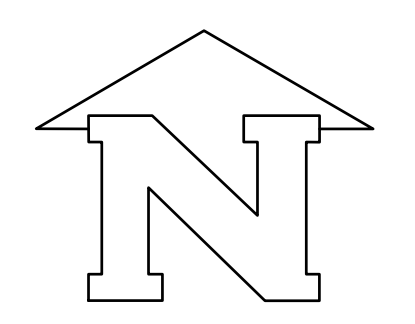
- KEYNOTES:**
- NEW 450kVA 600V/480Y/277V TESLA AUTOTRANSFORMER (TOTAL OF 2). PROVIDE STRUCTURAL FOOTING FOR NEW AUTOTRANSFORMER (TOTAL OF 2). AUTOTRANSFORMER WEIGHT IS APPROXIMATELY 318kg (700lbs). REFER TO STRUCTURAL DRAWING FOR STRUCTURAL FOOTING DETAILS.
  - NEW TESLA V3 SUPERCHARGER CABINET (TOTAL OF 2). REFER TO DRAWINGS E-13 AND E-14 FOR DETAILS. CONTRACTOR TO PROVIDE STRUCTURAL FOOTING FOR NEW TESLA V3 SUPERCHARGER CABINET (TOTAL OF 2). SUPERCHARGER CABINET WEIGHT IS APPROXIMATELY 1110kg (2448lbs). REFER TO STRUCTURAL DRAWING FOR STRUCTURAL FOOTING DETAILS. CONTRACTOR TO ENSURE NEW CURB IS NOT LOCATED WITHIN NO CURB ZONE IN FRONT OF TESLA SUPERCHARGER CABINET. REFER TO DETAIL 4 ON E-14.
  - NEW TESLA V3 SUPERCHARGER SITE CONTROLLER. SITE CONTROLLER TO BE MOUNTED AND SECURED ON H-FRAME VERTICAL AND HORIZONTAL STRUTS ON THE STAR-CENTRE SUPERCHARGER CABINET. REFER TO DRAWINGS E-13 AND E-15 FOR DETAILS.
  - NEW 1200A, 600V/347V SWITCHBOARD. REFER TO DRAWING E-12 FOR DETAILS. A MINIMUM OF 1000mm SHALL BE MAINTAINED IN FRONT OF NEW SERVICE ENTRANCE SWITCHBOARD. PROVIDE STRUCTURAL FOOTING FOR SWITCHBOARD. SWITCHBOARD WEIGHT IS APPROXIMATELY 1086kg (2393lbs). REFER TO STRUCTURAL DRAWING FOR STRUCTURAL FOOTING DETAILS.
  - NEW TESLA COMBINATION BOLLARD SIGNPOST (TOTAL OF 6). PROVIDE CONCRETE BOLLARD, SIGNPOST AND ALL MOUNTING HARDWARE TO SECURE SIGNPOSTS TO GROUND. TESLA TO SUPPLY ELECTRIC VEHICLE CHARGING SIGNAGE. CONTRACTOR SHALL PROVIDE ALL MOUNTING HARDWARE TO SECURE SIGNAGE TO SIGNPOST AND SHALL INSTALL SIGNAGE. REFER TO DETAIL 2 ON DRAWING E-16 FOR DETAILS. REFER TO STRUCTURAL DRAWING FOR FURTHER DETAILS.
  - NEW TESLA V3 SUPERCHARGER POSTS (TOTAL OF 8). REFER TO DETAILS 1 AND 2 ON DRAWING E-15 FOR DETAILS. PROVIDE CONCRETE BASE FOR SUPERCHARGER POSTS. REFER TO STRUCTURAL DRAWING FOR STRUCTURAL FOOTING DETAILS. SUPERCHARGER POST WEIGHT IS APPROXIMATELY 64kg (140lbs).
  - CONTRACTOR TO PROVIDE 3/4" CRUSHED FINISHING STONE AROUND NEW EQUIPMENT WITHIN THIS PROPERTY LINE. REFER TO DETAIL 1 ON DRAWING E-05 FOR FURTHER DETAILS. (NOTE: CRUSHED FINISHING STONE IS NOT SHOWN ON FOLLOWING SHEETS EXCEPT ON E-05).
  - EXISTING LIGHT POSTS TO BE REMOVED. NEW TESLA LIGHT POSTS WITH TESLA SIGNAGE MOUNTED ON THE POST TO BE INSTALLED AT THE LOCATIONS INDICATED (TOTAL OF 2). CONTRACTOR TO MOUNT TESLA SIGNAGE ON THE LIGHT POSTS TO BE ALIGNED WITH OTHER SIGNAGES. PROVIDE CAST IN PLACE CONCRETE BASE FOR NEW LIGHT POST. REFER TO STRUCTURAL DRAWING FOR FURTHER BASE DETAILS. REFER TO DETAIL 3 ON E-16 FOR DETAILS.
  - UTILITY METER TO BE MOUNTED ON THE LEFT SIDE OF SERVICE ENTRANCE SWITCHBOARD. REFER TO BC HYDRO SECONDARY VOLTAGE REVENUE METERING GUIDE (750V AND LESS) 5.3.1.2, 5.3.2.2, 5.4.1.2 AND 5.4.2.2. CONTRACTOR SHALL USE BC HYDRO APPROVED METER SOCKET CT130PW-BC OR CT113-L. BC HYDRO WILL SUPPLY THE VTs, CTs AND TEST SWITCH FOR THE SERVICE. BC HYDRO WILL CONNECT THE INSTRUMENT TRANSFORMER SECONDARY TO THE METER AND FUSE BLOCKS.
  - CONTRACTOR TO RELOCATE IRRIGATION VALVE AND IRRIGATION LINES AS NECESSARY TO FACILITATE CONSTRUCTION.
  - UTILITY TRANSFORMER TO BE SUPPLIED BY BC HYDRO AND INSTALLED BY CONTRACTOR. PADMOUNT TRANSFORMER PRIMARY AND SECONDARY CABLES TO BE SUPPLIED, INSTALLED AND MAINTAINED BY BC HYDRO. DUCT INSTALLATION SHALL BE IN ACCORDANCE WITH BC HYDRO STANDARDS ES54 H1-01 AND ES54 H1-03. THE DIMENSIONS OF UNOBSTRUCTED AREA INDICATED THE MINIMUM CLEARANCE. ANY VEGETATION ON THE PERIMETER OF THE AREA MUST BE OF THE TYPE THAT CAN BE TRIMMED ANNUALLY TO MAINTAIN CLEARANCE. MINIMUM WORK CLEARANCE SHOWN ON BC HYDRO STANDARD ES54 F3-08.01 SHALL BE ALLOWED FOR ACCESS FROM STREET SIDE TO CONDUCT BC HYDRO ROUTINE MAINTENANCE. PRECAST CONCRETE PAD TO BE SUPPLIED BY BC HYDRO. REFER TO BC HYDRO CIVIL GUIDE ES54 F3-05.01 FOR DETAILS.
  - PROVIDE STRUCTURAL FOOTING FOR FLO SMARTDC CHARGER AND AUTOTRANSFORMER 3. REFER TO STRUCTURAL DRAWINGS FOR FURTHER DETAILS. FLO SMARTDC CHARGER WEIGHT IS APPROXIMATELY 300kg (675lbs). AUTOTRANSFORMER 3 WEIGHT IS APPROXIMATELY 123kg (270lbs).
  - NEW BC HYDRO 50/2 POLE TO BE SUPPLIED AND INSTALLED BY BC HYDRO. CONTRACTOR SHALL PROVIDE PILASTER FOR THE SUPPORT WIRES.
  - CONCRETE BASE FOR PROTECTIVE BOLLARDS SHALL BE PLACED BELOW EQUIPMENT STRUCTURAL FOOTING WHEN THEY ARE IN CLOSE PROXIMITY.
  - CONTRACTOR TO DEMOLISH EXISTING CONCRETE SIDEWALK RAMP AND PROVIDE SOD TO MATCH. FINAL GRADE TO BE BROUGHT UP TO THE SIDEWALK LEVEL ALL AROUND THE PMT FOR AT LEAST THE ENTIRE CLEAR ZONE WORKING AREA IN ES54 WITH A GRADUAL RETURN BACK TO THE PARKING LOT GRADE (TO AVOID TRIPPING HAZARD). REFER TO BC HYDRO DRAWINGS FOR FURTHER DETAILS.
  - CONTRACTOR TO CONSTRUCT NEW CONCRETE SIDEWALK RAMP CONNECTING TO THE PARKING LOT.
  - CONTRACTOR TO REVISE SIDEWALK LAYOUT AS INDICATED.

- GENERAL NOTES:**
- CONTRACTOR SHALL PROVIDE CLEARLY VISIBLE WARNING LABEL ABOVE DOOR HANDLE ON EACH V3 SUPERCHARGER CABINET (TOTAL OF 2). WARNING LABEL SHALL STATE "DANGER: SUPERCHARGER CABINET CONTAINS MULTIPLE SOURCES OF POWER. DO NOT OPEN ENCLOSURE UNLESS ALL SOURCES OF POWER ARE DE-ENERGIZED."
  - PROVIDE STRUCTURAL FOOTINGS FOR EQUIPMENT AS INDICATED IN STRUCTURAL DRAWINGS. REFER TO E-06 (STRUCTURAL FOOTING STUB UP DETAILS) FOR ADDITIONAL INFORMATION.
  - CONTRACTOR SHALL SUPPLY AND INSTALL NEW 178mm (7") DIAMETER BOLLARDS AS INDICATED. BOLLARDS FOR PROTECTION OF BC HYDRO PADMOUNT TRANSFORMER TO BE SUPPLIED BY BC HYDRO AND INSTALLED BY THIS CONTRACTOR.
  - CONTRACTOR TO INSTALL NEW SERVICE ENTRANCE SWITCHBOARD IN ACCORDANCE WITH BC HYDRO STANDARDS ES54 S2-01.03 AND ES54 S2-01.08.
  - CONTRACTOR TO REMOVE/RELOCATE TREES WHERE NEEDED TO FACILITATE NEW INSTALLATION (NOTE: REMOVED TREES NOT SHOWING ON FOLLOWING SHEETS.)

Contractor must check and verify all dimensions and conditions on site and report any discrepancies to designer and/or engineer prior to proceeding with work

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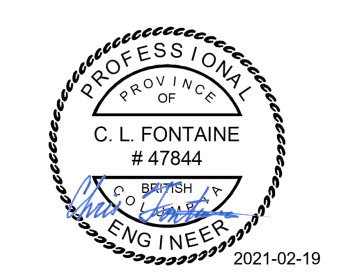


PROJECT NORTH

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ELECTRICAL ENGINEERS:



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1	ISSUED FOR COORDINATION	AUG 26, 2020

PROJECT NAME:

**TESLA CACHE CREEK SUPERCHARGER INSTALLATION**

PROJECT ADDRESS:

1270 STAGE ROAD  
 CACHE CREEK, BC V0K 1H0

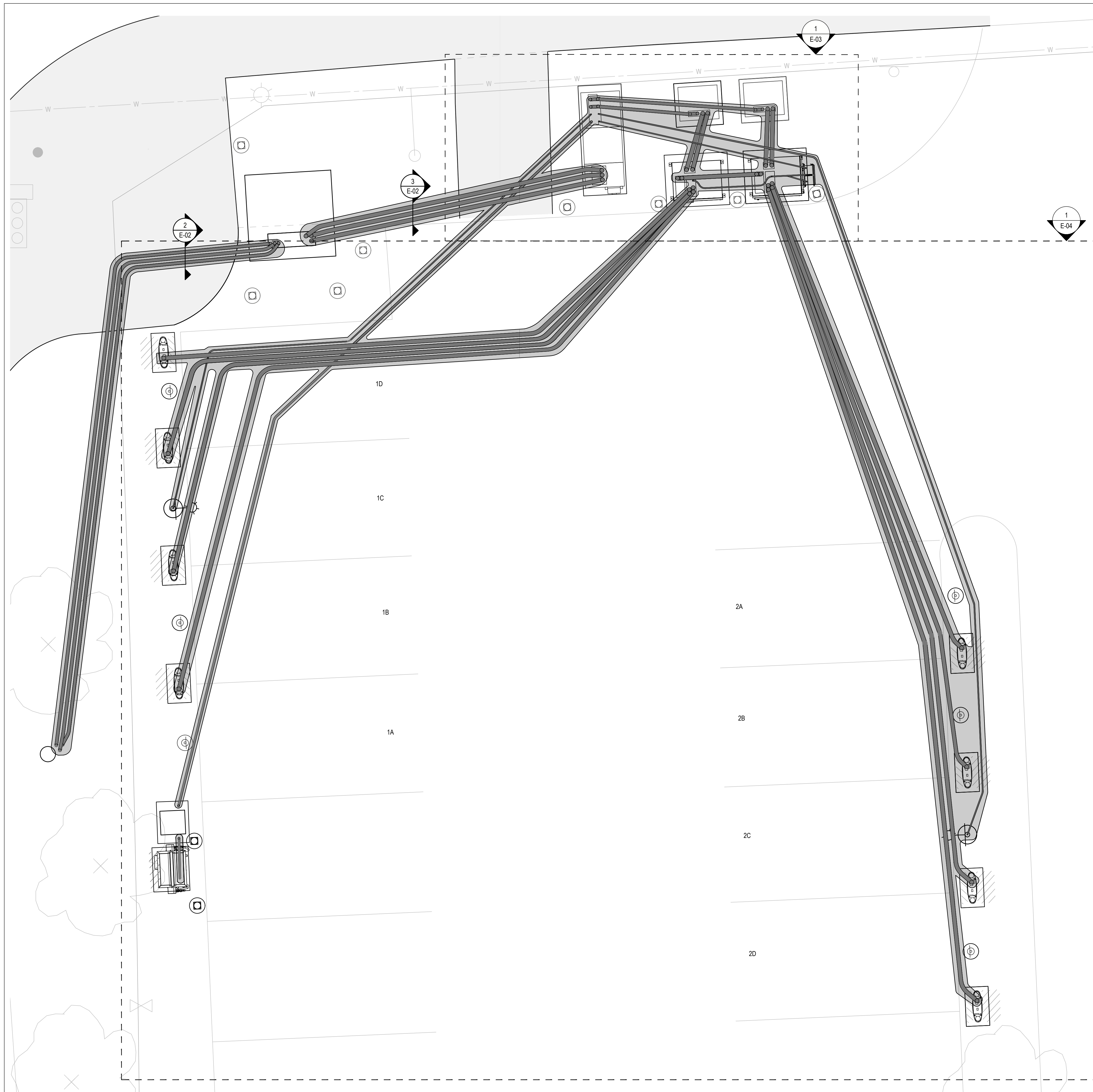
DRAWING TITLE:

**SITE PLAN AND EQUIPMENT LAYOUT**

DATE:	AUGUST 2020
SCALE:	AS NOTED
DRAWN BY:	SX
CHECKED BY:	CF
JOB NUMBER:	2-20-363

DRAWING NUMBER:

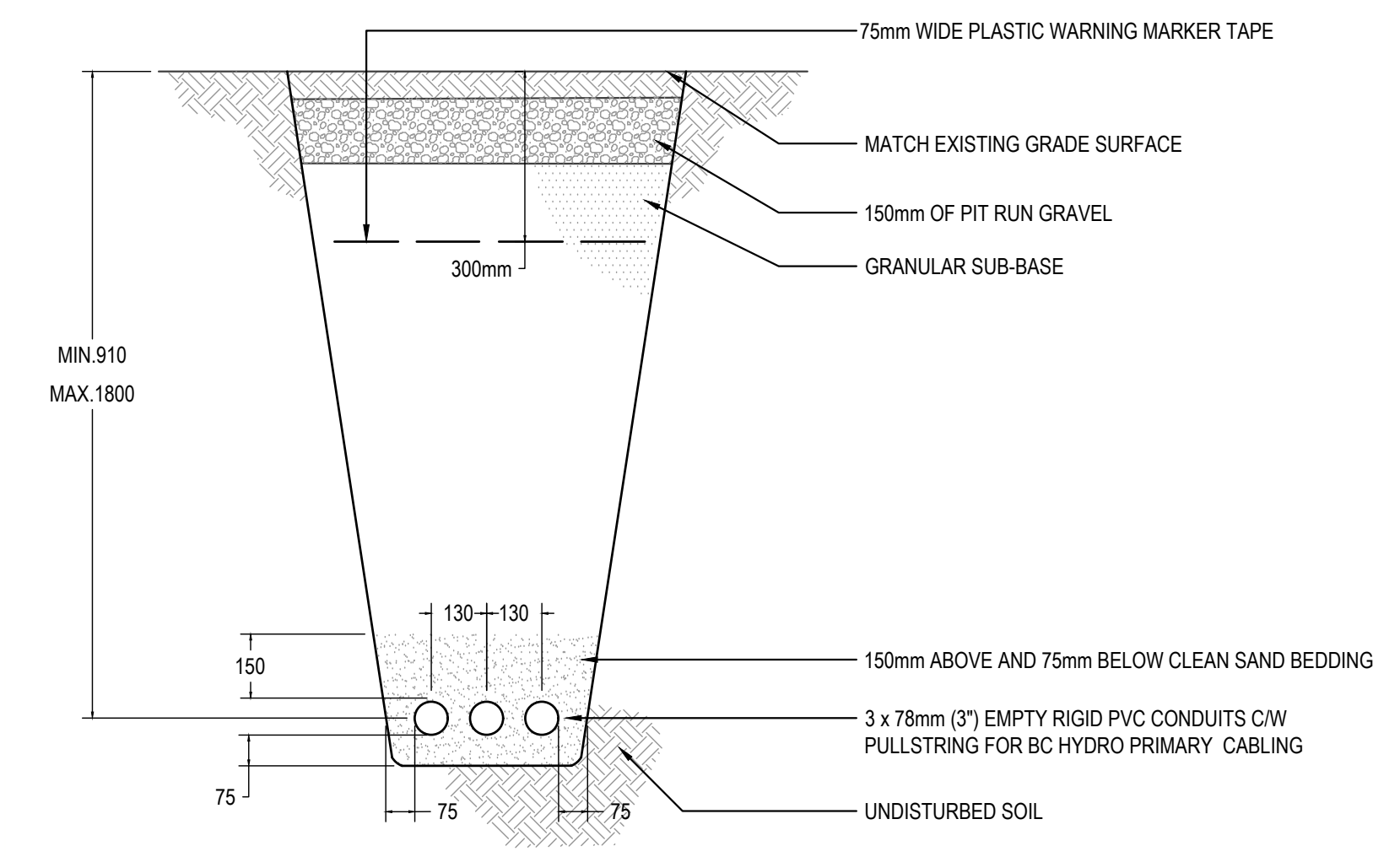
**E-01**



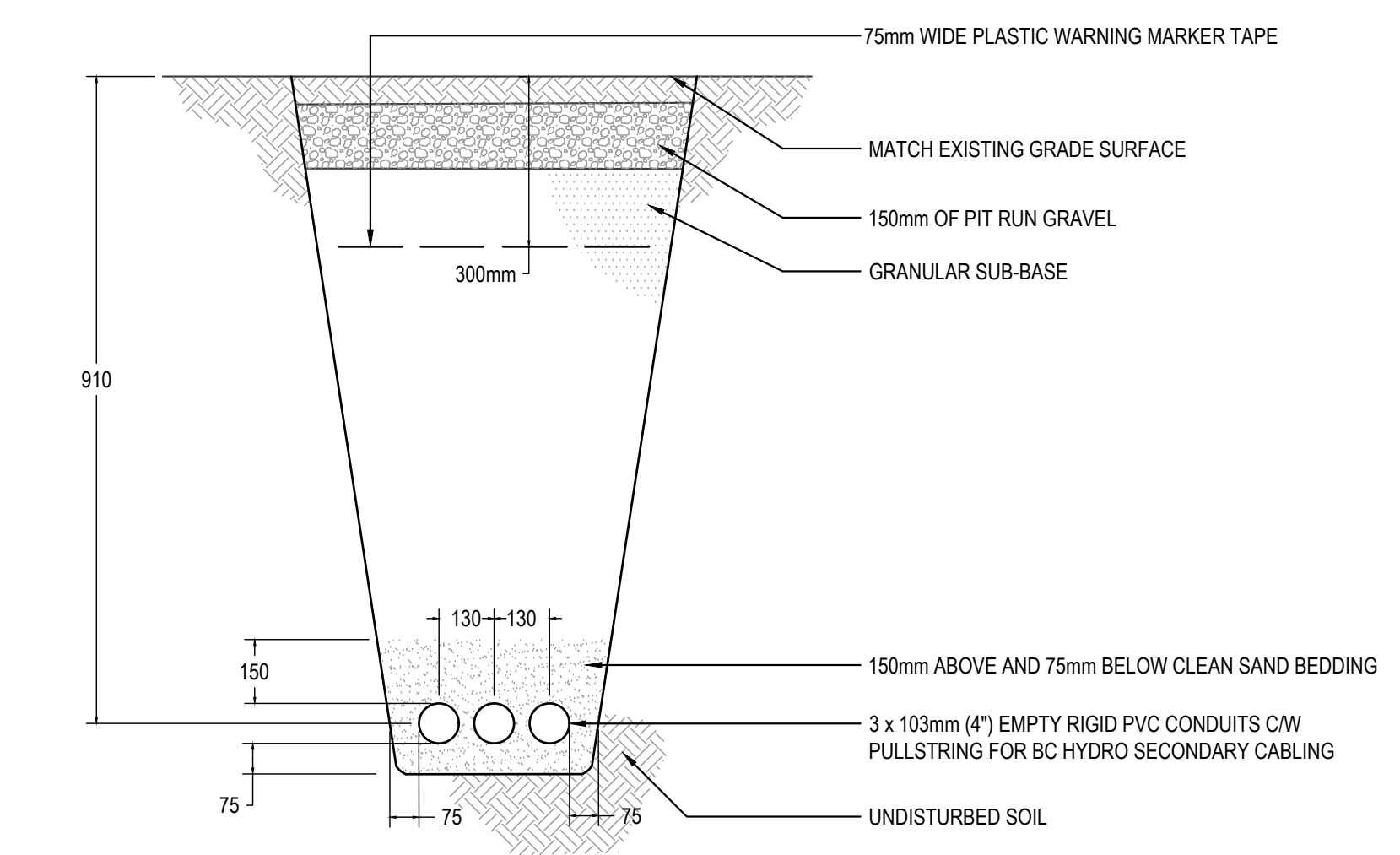
1 E-02 TRENCHING LAYOUT  
 0 1000 2000 3000 1:50

GENERAL NOTES:

- A. CONDUIT ROUTING AND TRENCHES ARE INDICATIVE ONLY. CONTRACTOR TO DETERMINE FINAL INSTALL LOCATIONS BASED ON SITE CONDITIONS.
- B. CONDUIT SPACING IN TRENCHES MUST BE IN ACCORDANCE WITH CSA C22.1-18. REFER TO ELECTRICAL DRAWINGS E-03 AND E-04.
- C. REFER TO BC HYDRO STANDARD ES4 S2-01, ES4 H0-02 AND ES4 H1 FOR SECONDARY DUCT DETAILS. CONTRACTOR TO PROVIDE HARDWARE SUPPORT FOR CSA CABLE CLAMPS IN ACCORDANCE WITH BC HYDRO DRAWINGS AND ES4 S2-01.09.



2 E-02 TRENCHING FROM NEW BC HYDRO POLE TO PADMOUNT TRANSFORMER  
 NTS

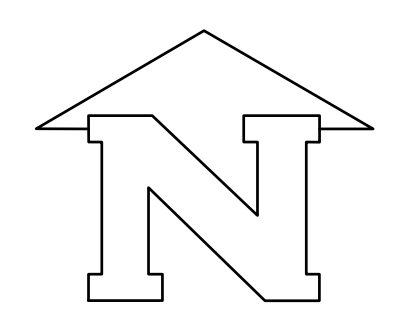


3 E-02 TRENCHING FROM PADMOUNT TRANSFORMER TO SWITCHBOARD  
 NTS

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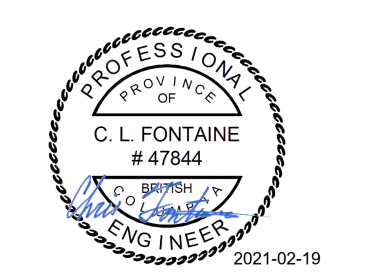


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ELECTRICAL ENGINEERS:



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PROJECT NAME:

TESLA CACHE CREEK SUPERCHARGER INSTALLATION

PROJECT ADDRESS:  
 1270 STAGE ROAD  
 CACHE CREEK, BC V0K 1H0

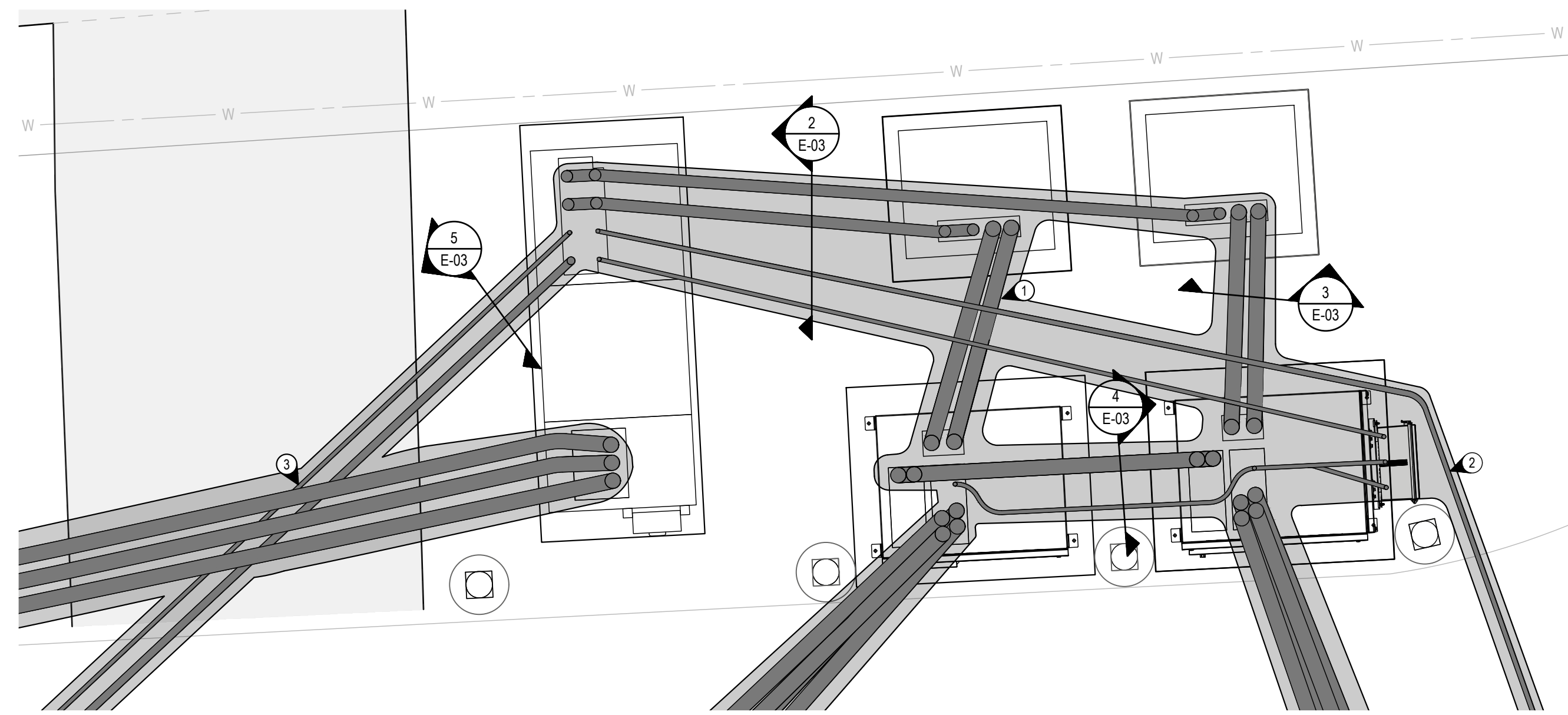
DRAWING TITLE:

TRENCHING LAYOUT

DATE:	AUGUST 2020
SCALE:	AS NOTED
DRAWN BY:	SX
CHECKED BY:	CF
JOB NUMBER:	2-20-363

DRAWING NUMBER:

E-02



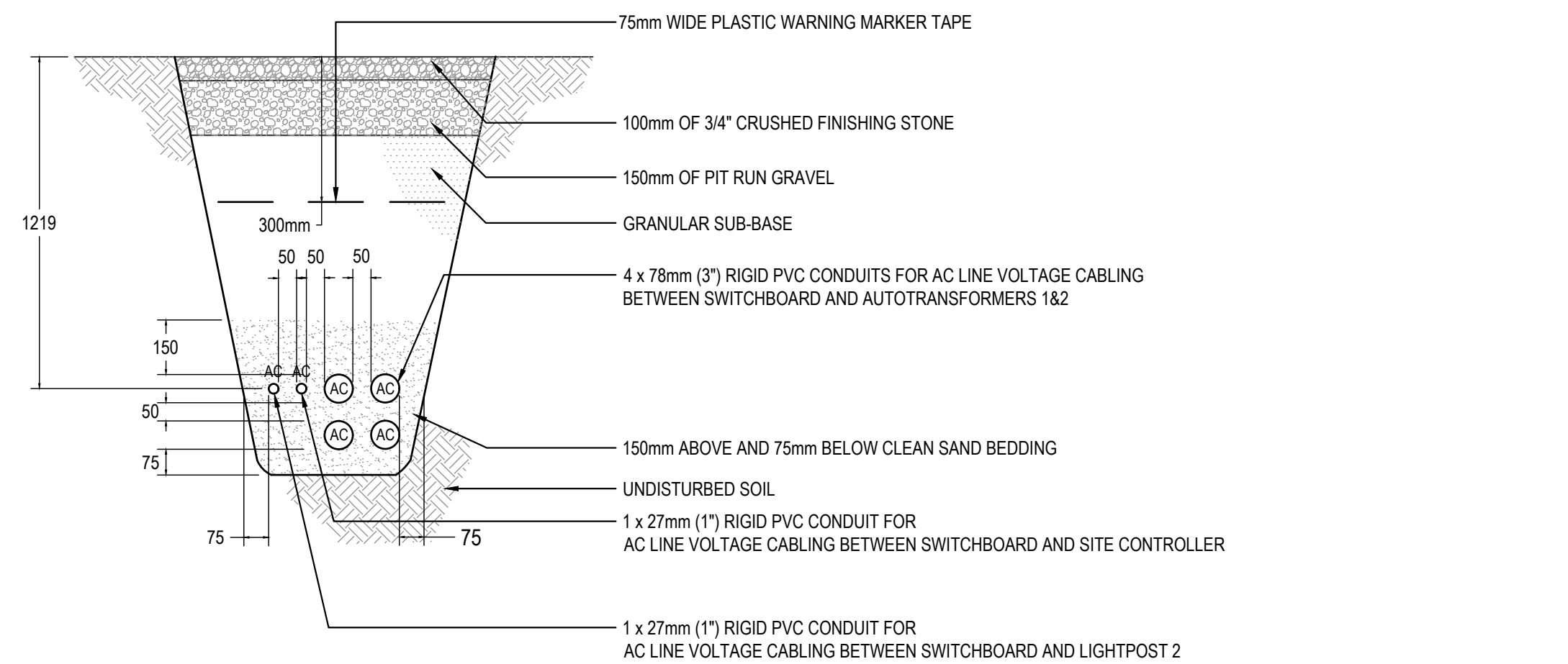
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E-03  
TRENCHING LAYOUT  
Scale: 1:30

**GENERAL NOTES:**

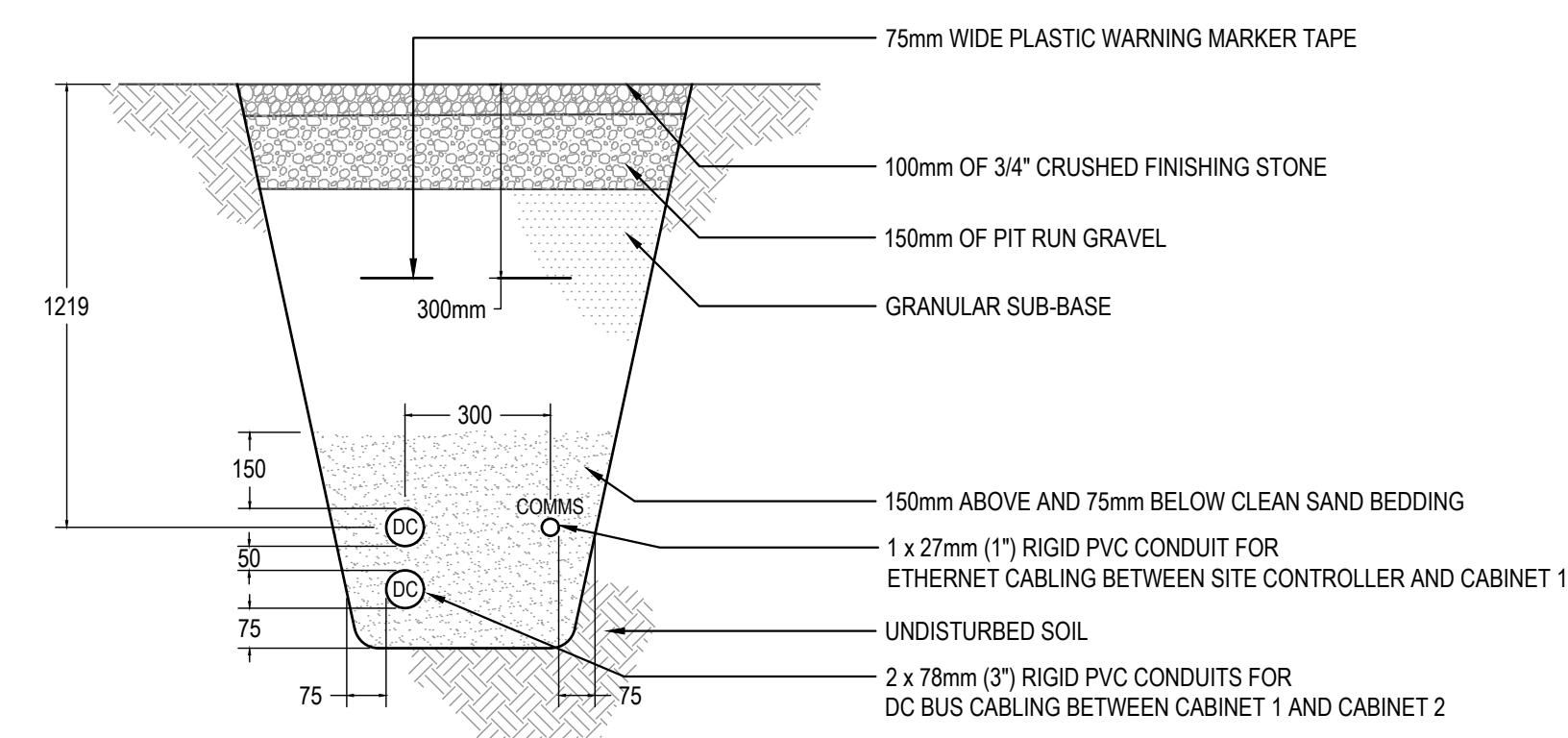
- A. CONDUIT ROUTING AND TRENCHES ARE INDICATIVE ONLY. CONTRACTOR TO DETERMINE FINAL INSTALL LOCATIONS BASED ON SITE CONDITIONS.
- B. CONDUIT SPACING IN TRENCHES MUST BE IN ACCORDANCE WITH CSA C22.1-18.

**KEYNOTES:**

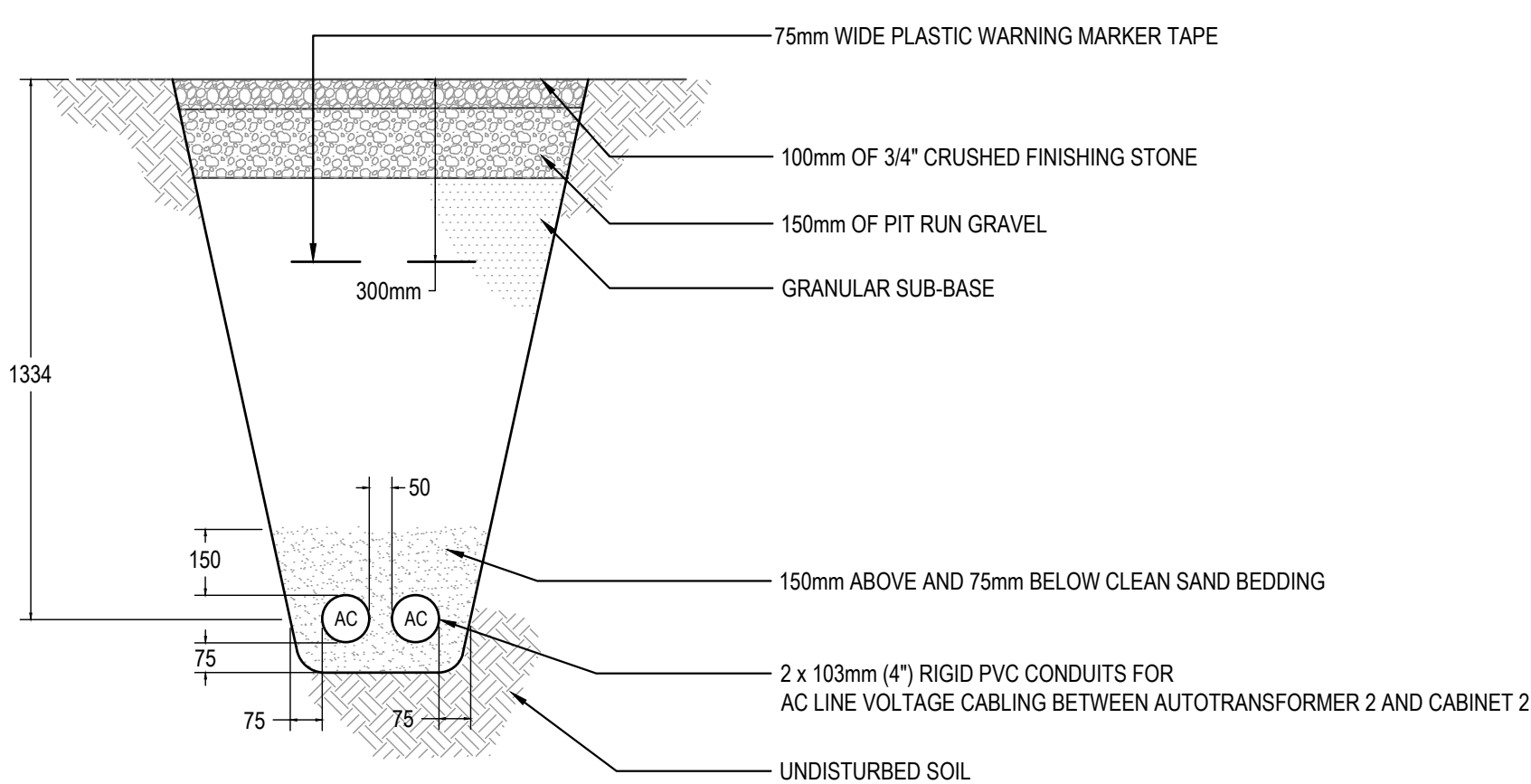
- 1 2 x 78mm (3") CONDUITS BETWEEN AUTOTRANSFORMER 1 AND CABINET 1 TO RUN MINIMUM 50mm BELOW THE 2 x 28mm (1") CONDUITS BETWEEN SWITCHBOARD AND THE CABINET 2, AND SWITCHBOARD AND LIGHTPOST 2.
- 2 27mm (1") CONDUIT BETWEEN SWITCHBOARD AND LIGHTPOST 2.
- 3 53mm (2") CONDUIT BETWEEN SWITCHBOARD AND 75kVA AUTOTRANSFORMER AND 27mm (1") CONDUIT BETWEEN SWITCHBOARD AND LIGHTPOST 1 TO RUN 300mm BELOW PADMOUNT TRANSFORMER SECONDARY CONDUITS.



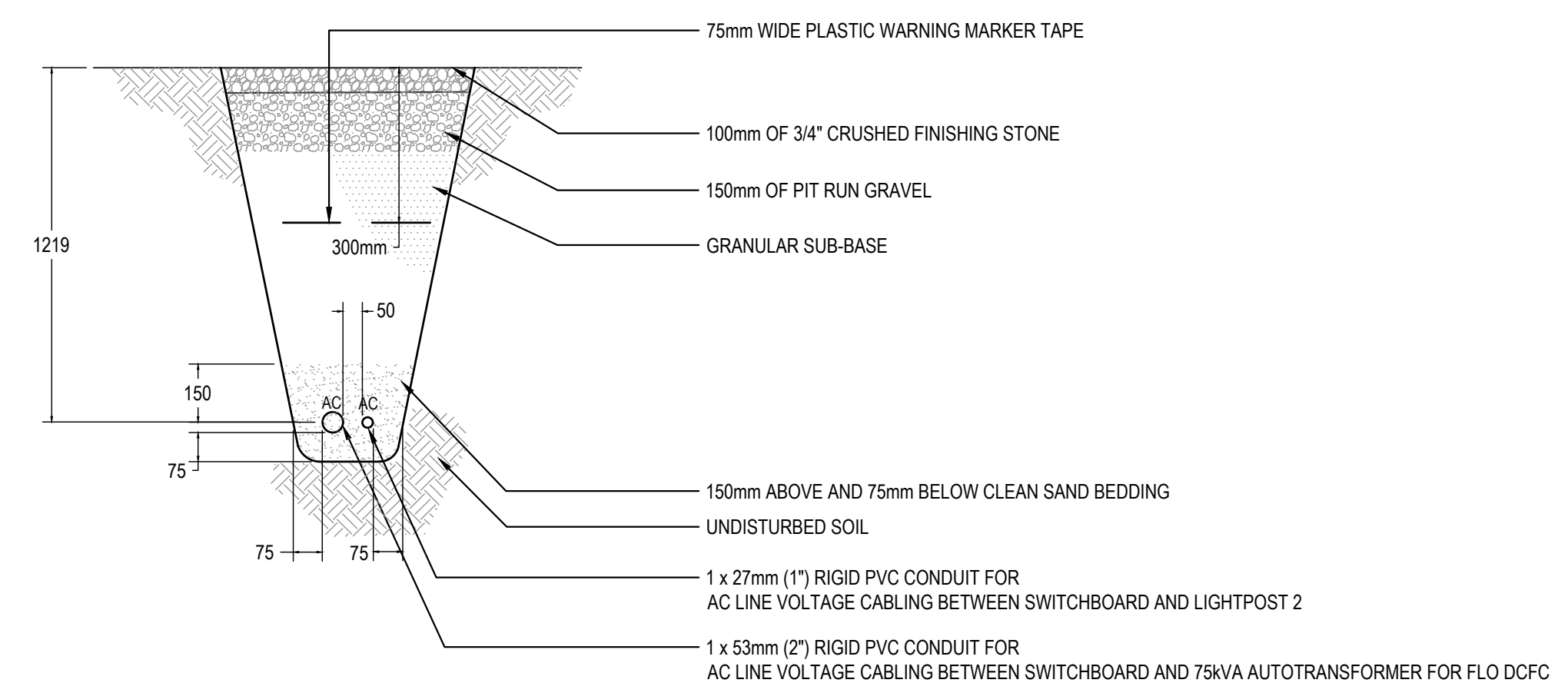
2  
E-03  
TRENCHING BETWEEN SWITCHBOARD AND AUTOTRANSFORMERS, SITE CONTROLLER, LIGHTPOST 2  
Scale: NTS



4  
E-03  
TRENCHING BETWEEN CABINET 1 AND CABINET 2  
Scale: NTS



3  
E-03  
TRENCHING BETWEEN AUTOTRANSFORMER 2 AND CABINET 2  
Scale: NTS

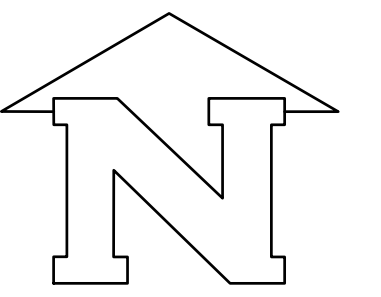


5  
E-03  
TRENCHING BETWEEN SWITCHBOARD AND AUTOTRANSFORMER 3, LIGHTPOST 1  
Scale: NTS

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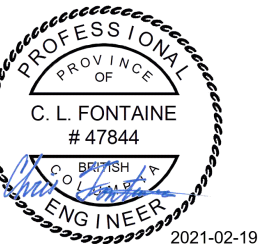


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CLIENT:



ELECTRICAL ENGINEERS:



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PROJECT NAME:

**TESLA CACHE CREEK SUPERCHARGER INSTALLATION**

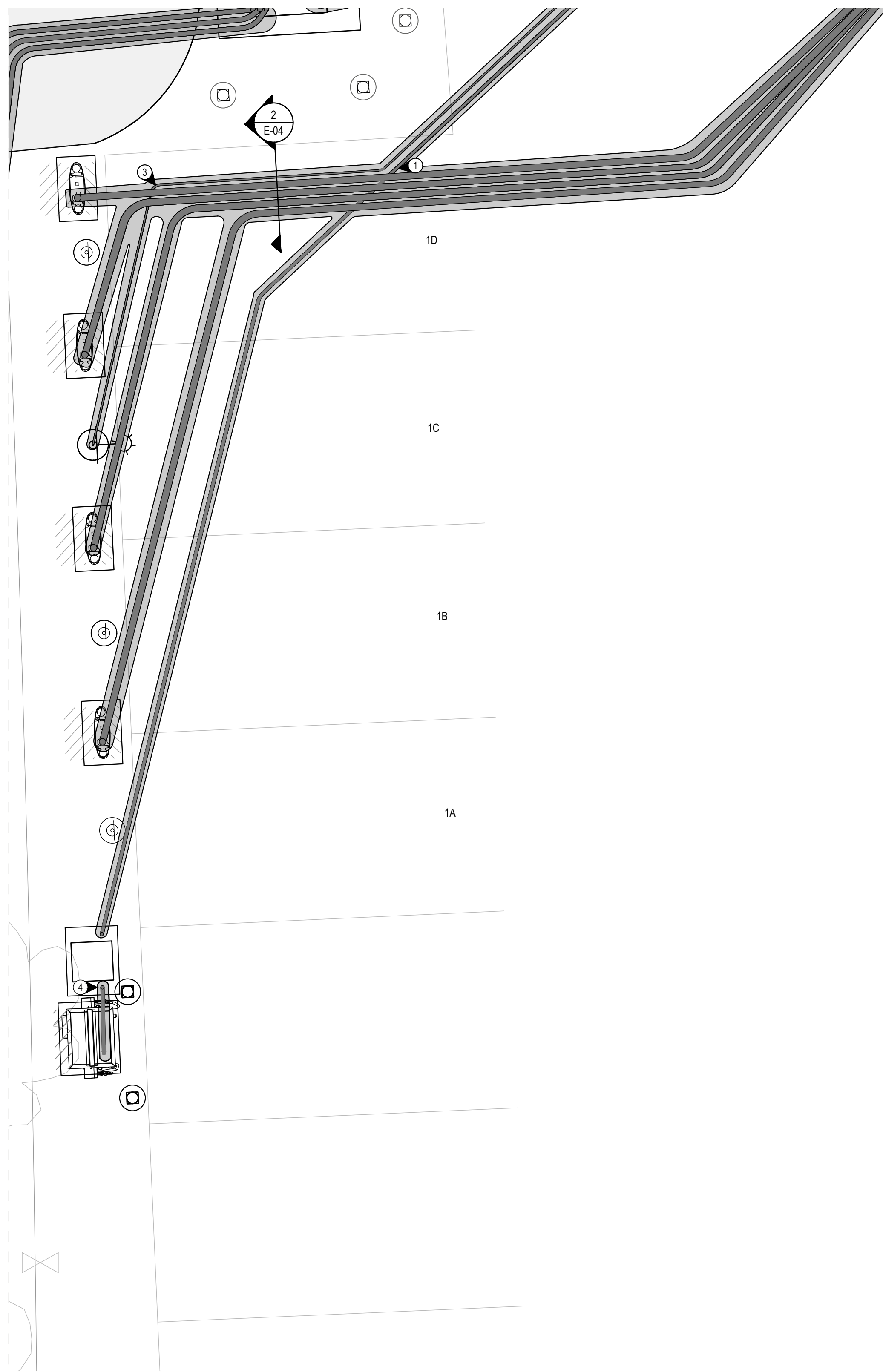
PROJECT ADDRESS:  
1270 STAGE ROAD  
CACHE CREEK, BC V0K 1H0

DRAWING TITLE:  
**TRENCHING DETAILS (1 OF 2)**

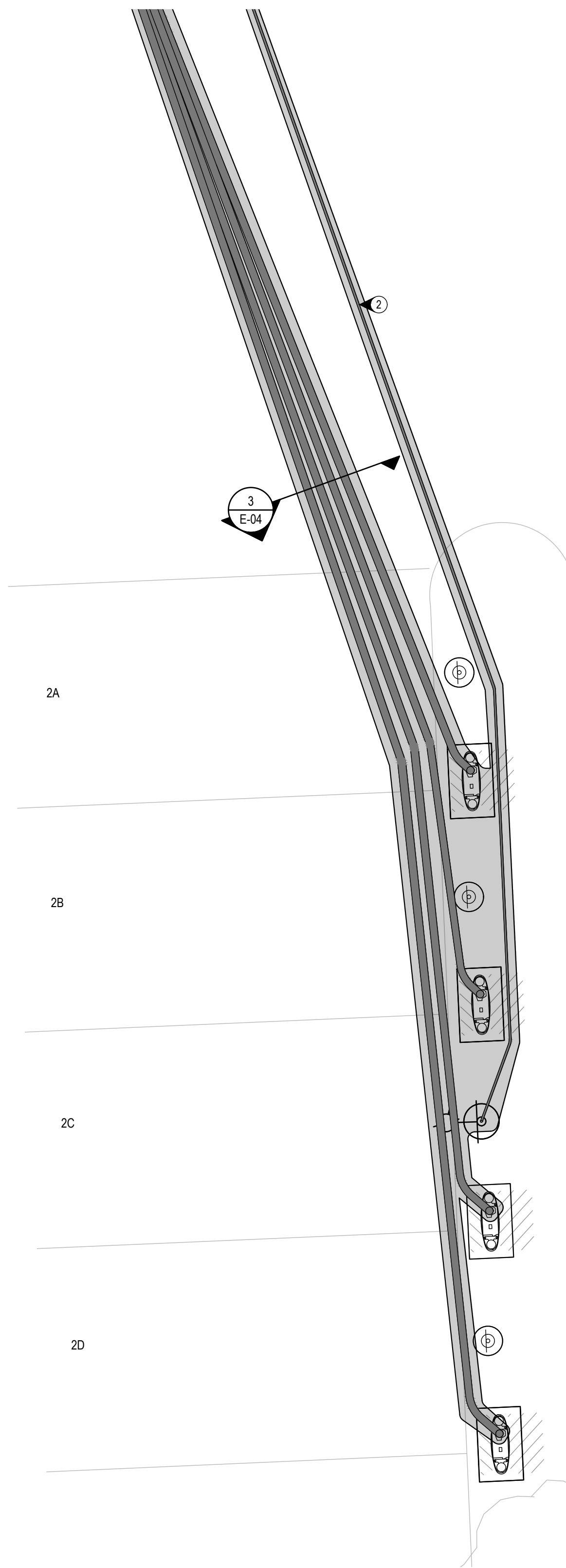
DATE:	AUGUST 2020
SCALE:	AS NOTED
DRAWN BY:	SX
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JOB NUMBER:	2-20-363

DRAWING NUMBER:

**E-03**



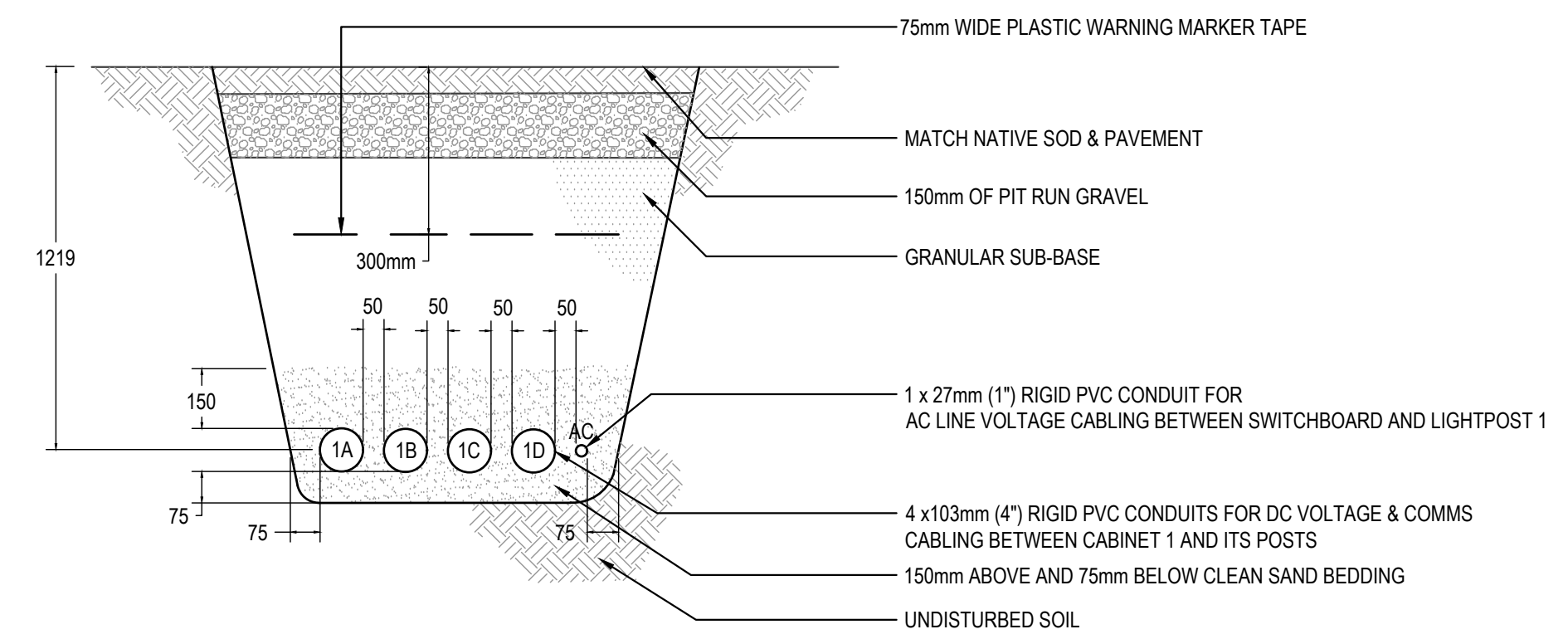
1  
E-04  
NTS  
**TRENCHING LAYOUT**



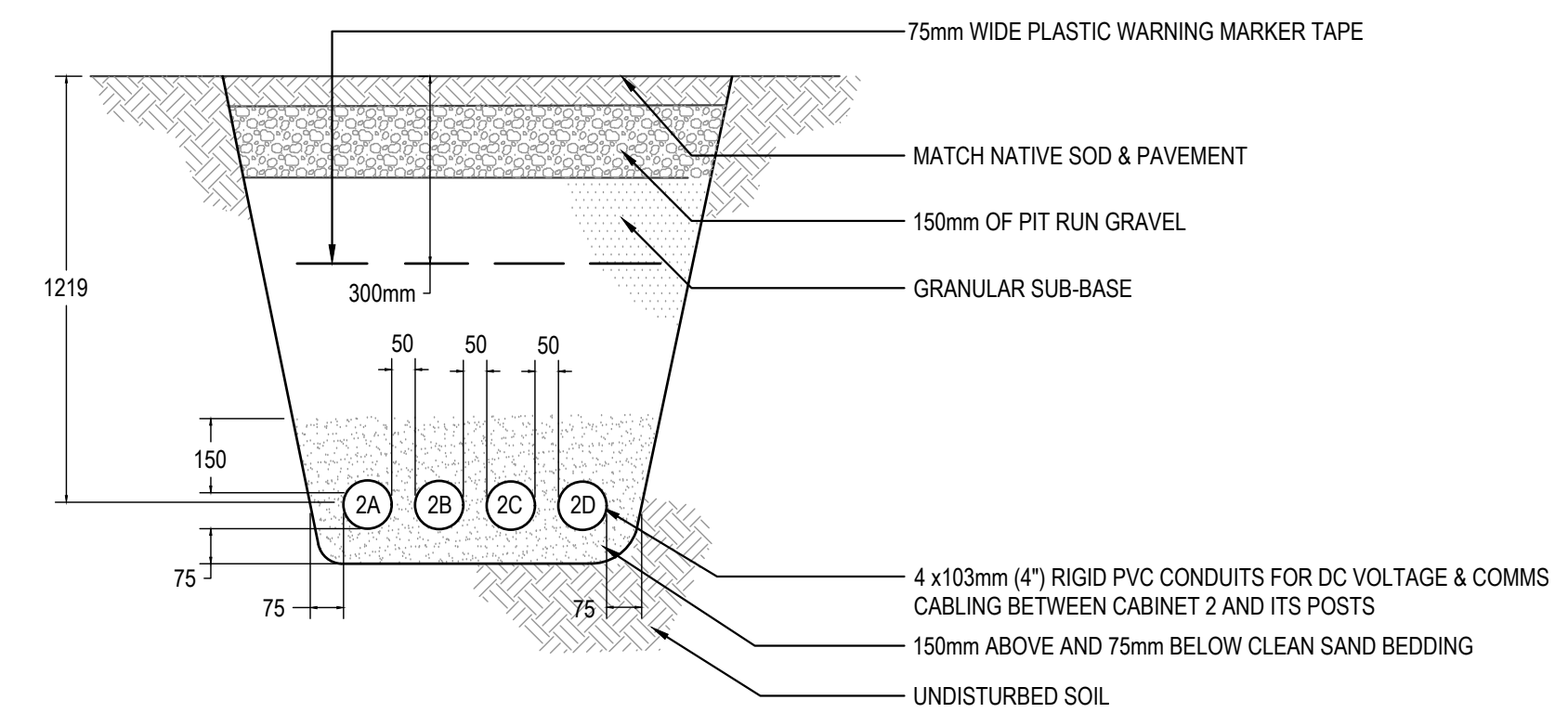
3  
E-04  
NTS  
**TRENCHING DETAIL BETWEEN CABINET 2 AND ITS POSTS**

- GENERAL NOTES:**
- A. CONDUIT ROUTING AND TRENCHES ARE INDICATIVE ONLY. CONTRACTOR TO DETERMINE FINAL INSTALL LOCATIONS BASED ON SITE CONDITIONS.
  - B. CONDUIT SPACING IN TRENCHES MUST BE IN ACCORDANCE WITH CSA C22.1-18.

- KEYNOTES:**
- 1 53mm (2") CONDUIT BETWEEN SWITCHBOARD AND AUTOTRANSFORMER 3 TO RUN MINIMUM 50mm BELOW CONDUITS BETWEEN CABINET 1 AND CHARGEPOST 1A TO 1D.
  - 2 27mm (1") CONDUIT BETWEEN SWITCHBOARD AND LIGHTPOST 2.
  - 3 27mm (1") CONDUIT BETWEEN SWITCHBOARD AND LIGHTPOST 1 TO RUN MINIMUM 50mm BELOW CONDUITS BETWEEN CABINET 1 AND CHARGEPOST 1A TO 1B.
  - 4 53mm (2") CONDUIT BETWEEN 75kVA AUTOTRANSFORMER TO FLO DCFC.



2  
E-04  
NTS  
**TRENCHING DETAIL BETWEEN CABINET 1 AND ITS POSTS**

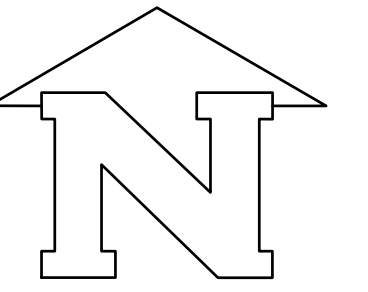


3  
E-04  
NTS  
**TRENCHING DETAIL BETWEEN CABINET 2 AND ITS POSTS**

Contractor must check and verify all dimensions and conditions on site and report any discrepancies to designer and/or engineer prior to proceeding with work

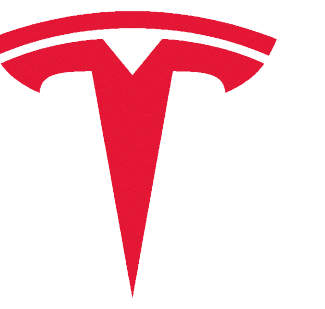
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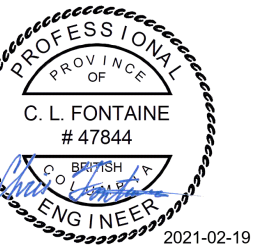
PROJECT NORTH

CLIENT:



TESLA

ELECTRICAL ENGINEERS:



REV	DESCRIPTION	DATE
7	ISSUED FOR INFORMATION	FEB 19, 2021
6	ISSUED FOR PRICING	FEB 5, 2021
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4	ISSUED FOR INFORMATION	JAN 28, 2021
3	ISSUED FOR INFORMATION	DEC 10, 2020
2	ISSUED FOR INFORMATION	NOV 13, 2020
1	ISSUED FOR COORDINATION	AUG 26, 2020

PROJECT NAME:

**TESLA CACHE CREEK SUPERCHARGER INSTALLATION**

PROJECT ADDRESS:  
1270 STAGE ROAD  
CACHE CREEK, BC V0K 1H0

DRAWING TITLE:  
**TRENCHING DETAILS (2 OF 2)**

DATE:	AUGUST 2020
SCALE:	NTS
DRAWN BY:	SX
CHECKED BY:	CF
JOB NUMBER:	2-20-363

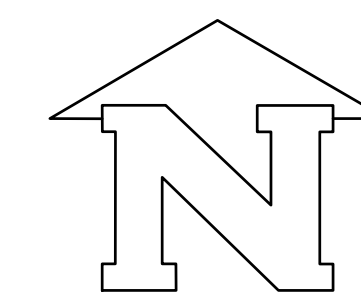
DRAWING NUMBER:

**E-04**

Contractor must check and verify all dimensions and conditions on site and report any discrepancies to designer and/or engineer prior to proceeding with work.

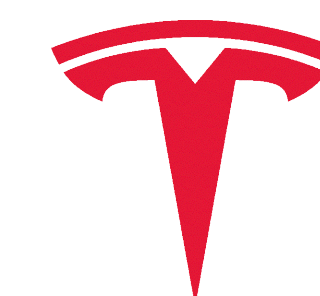
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PROJECT NORTH

CLIENT:



TESLA

ELECTRICAL ENGINEERS:



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PROJECT NAME:

**TESLA CACHE CREEK SUPERCHARGER INSTALLATION**

PROJECT ADDRESS:

1270 STAGE ROAD  
CACHE CREEK, BC V0K 1H0

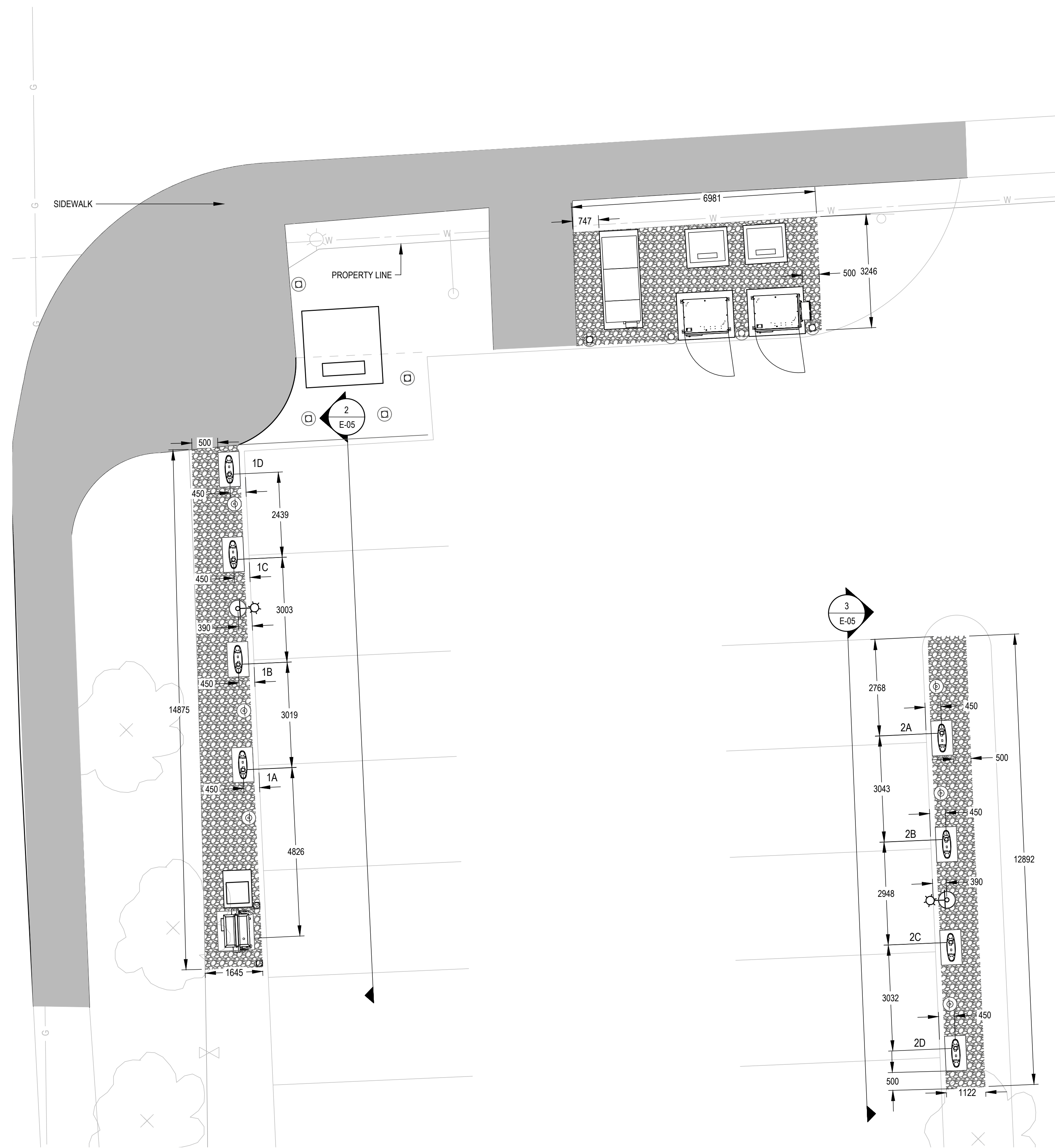
DRAWING TITLE:

**CHARGEPOST STUB UP DETAIL AND ELEVATION**

DATE:	AUGUST 2020
SCALE:	AS NOTED
DRAWN BY:	SX
CHECKED BY:	CF
JOB NUMBER:	2-20-363

DRAWING NUMBER:

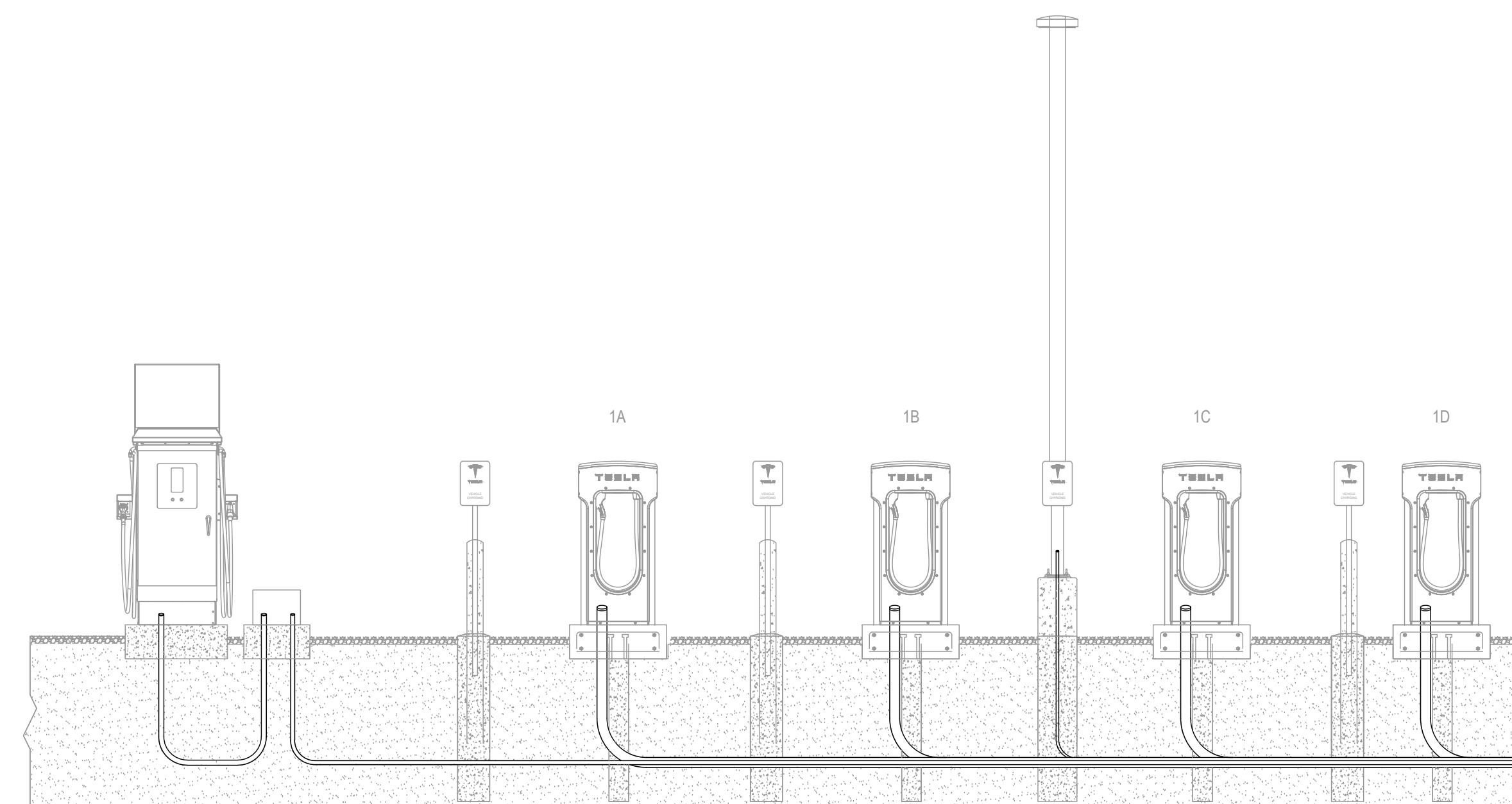
**E-05**



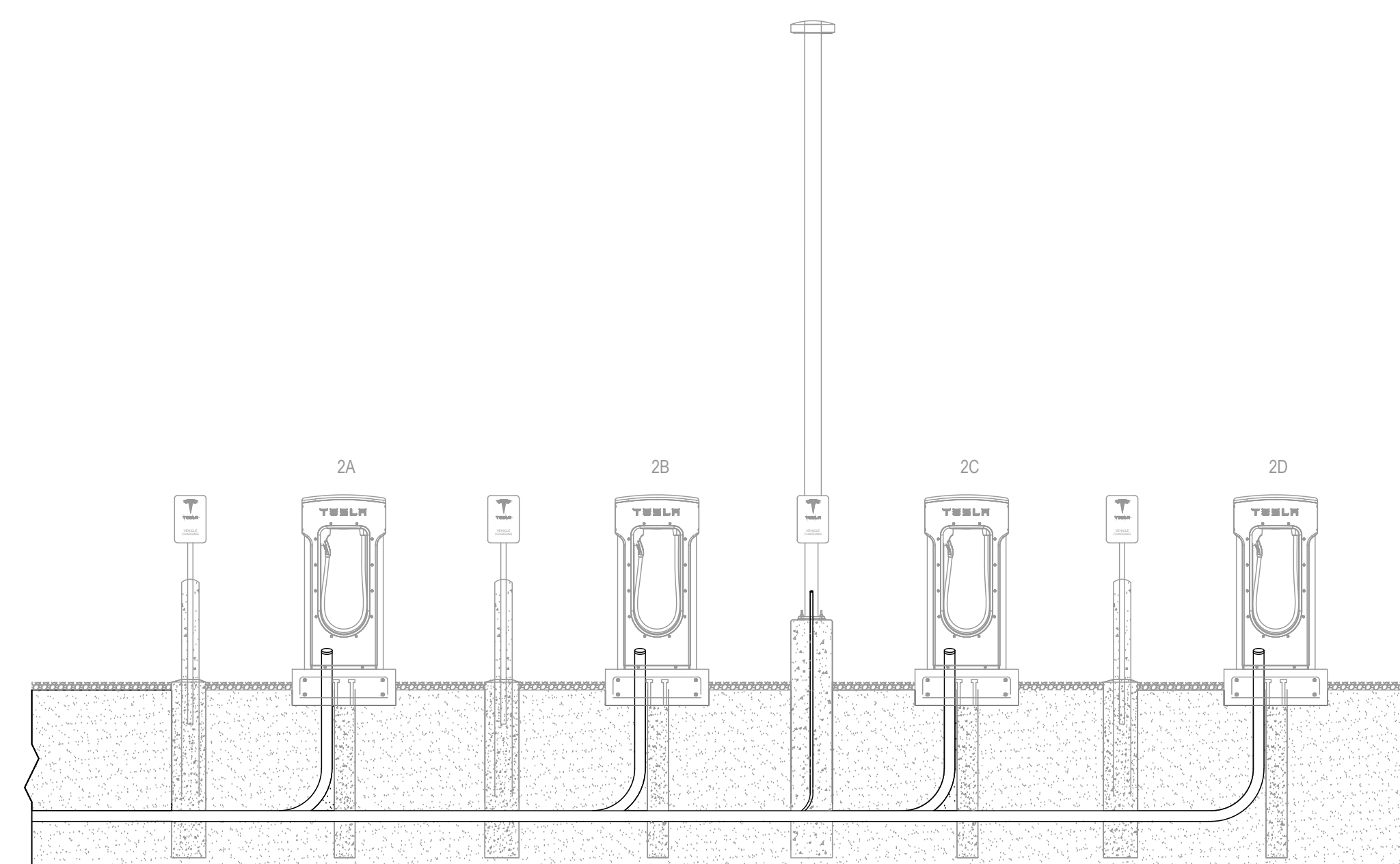
**1 FINISHING STONE AND CHARGEPOST CONDUIT STUB UP LOCATIONS**  
E-05

**GENERAL NOTES:**

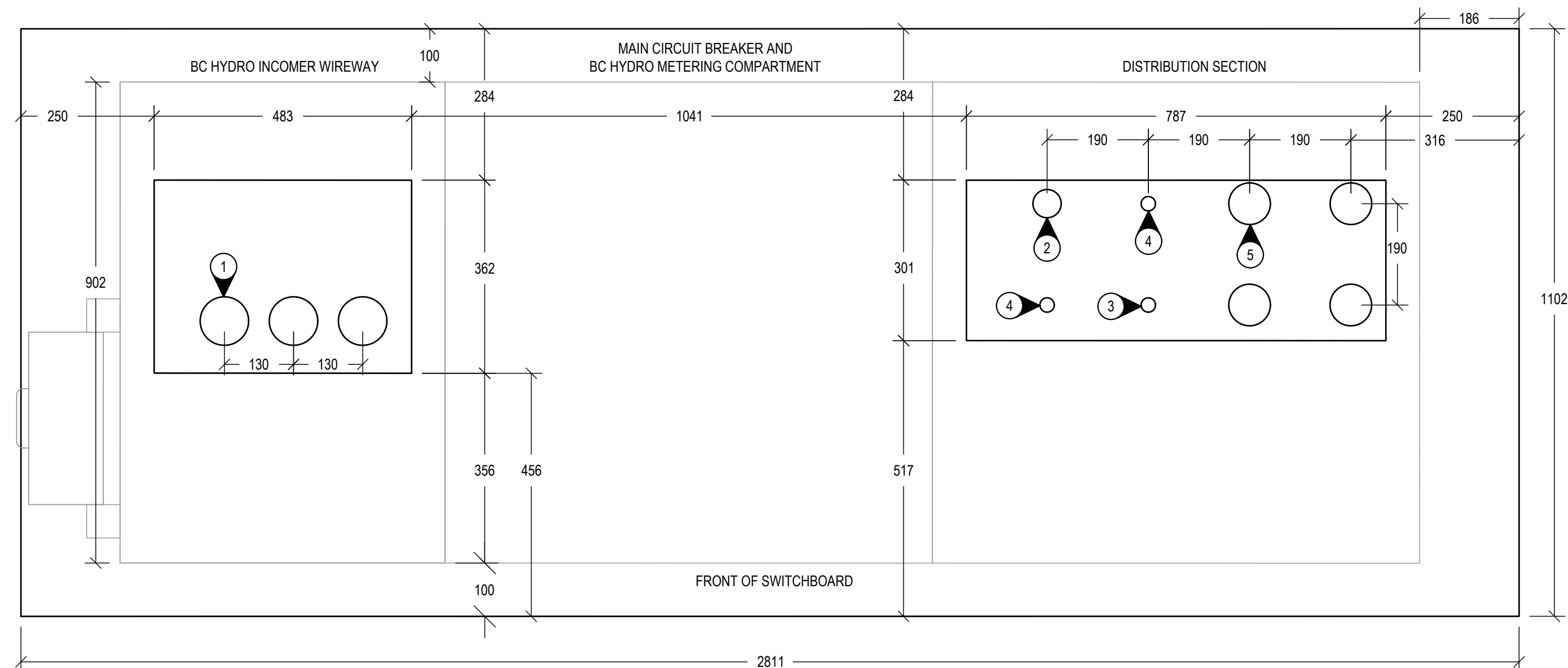
- REFER TO DETAILS ON E-06 FOR CONCRETE PAD CONDUIT STUB-UP DETAILS OF AUTOTRANSFORMERS, SUPERCHARGER CABINETS, SWITCHBOARD AND FLO SMARTDC CHARGER.
- CONTRACTOR TO ENSURE ALL STALLS HAVE MINIMUM DIMENSIONS AS SHOWN ON DETAIL 1 IN DRAWING E-16.
- PROVIDE 100mm DEEP 3/4" CRUSHED FINISHING STONE PLACED AROUND EQUIPMENT AS INDICATED. FINISHING STONE SHALL BE AT THE SAME GRADE AS THE TOP OF THE CURB, AND SHALL EXTEND FROM THE CURB TO 500mm BEHIND EQUIPMENT STRUCTURAL FOOTING OR PROPERTY LINE OR NEARBY SIDEWALK, WHICHEVER IS CLOSER.



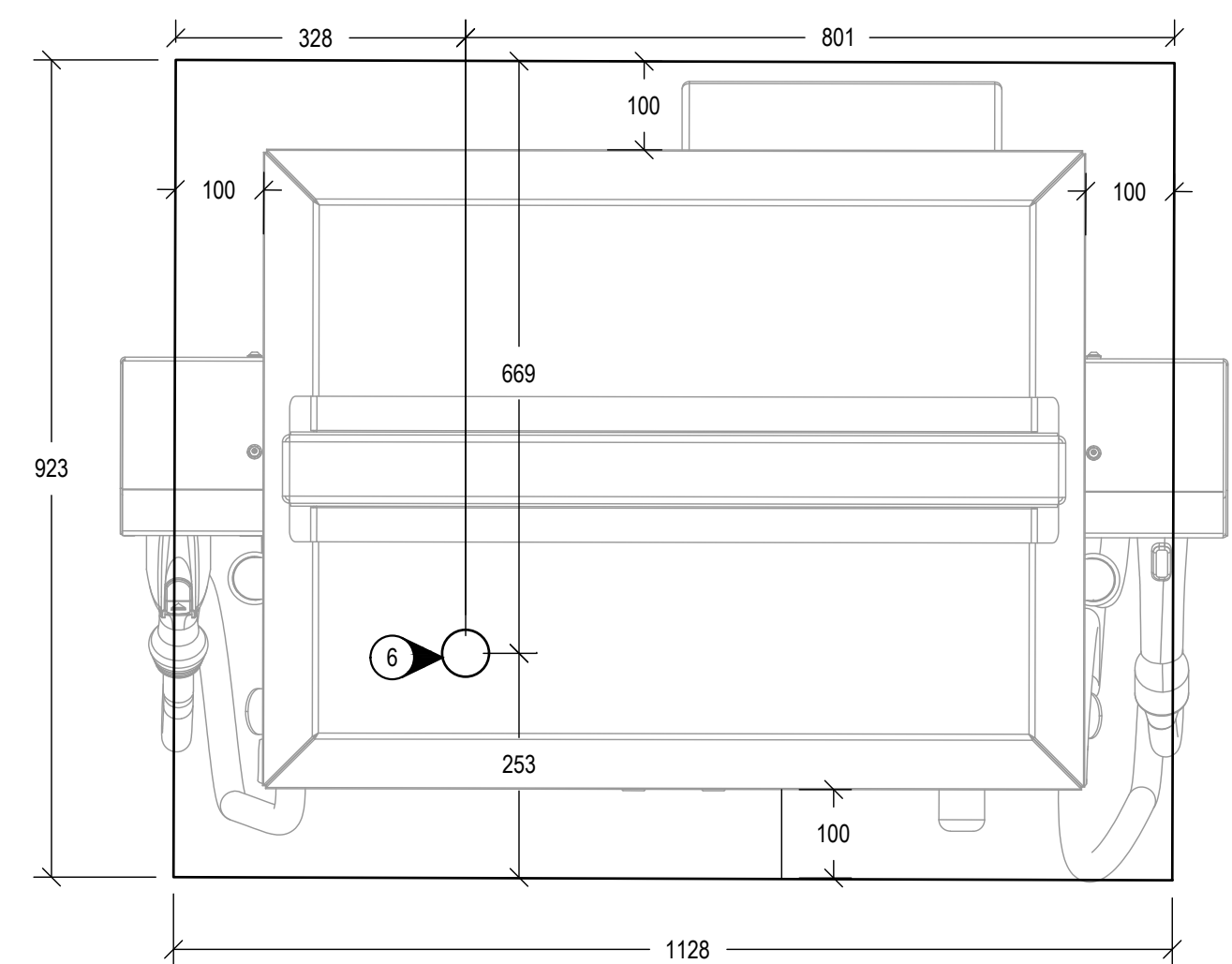
**2 V3 SUPERCHARGER POST CONDUIT PROFILE 1**  
E-05



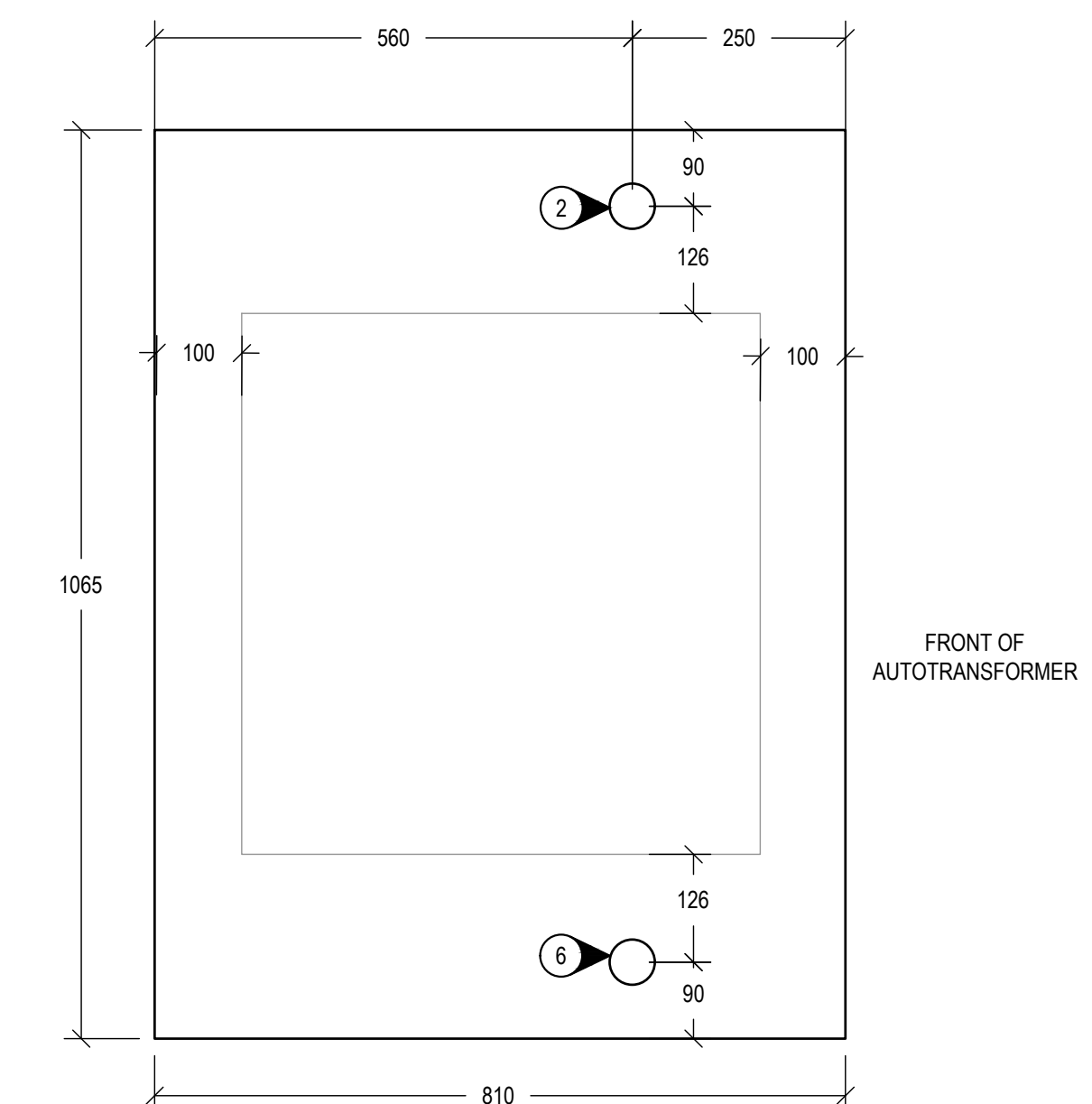
**3 V3 SUPERCHARGER POST CONDUIT PROFILE 2**  
E-05



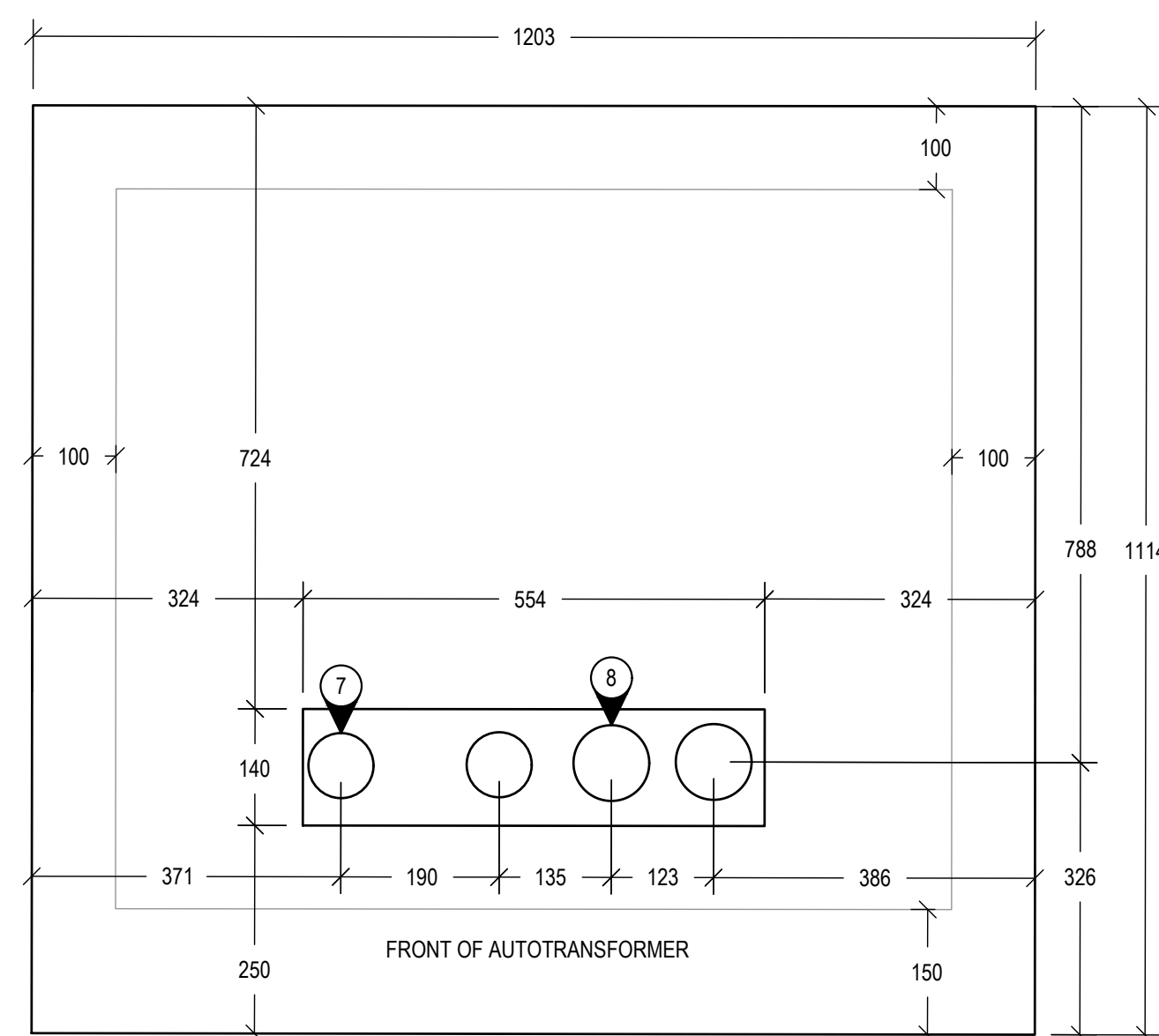
1 SERVICE ENTRANCE SWITCHBOARD CONCRETE PAD STUB UP PROFILE  
E-06 1:8



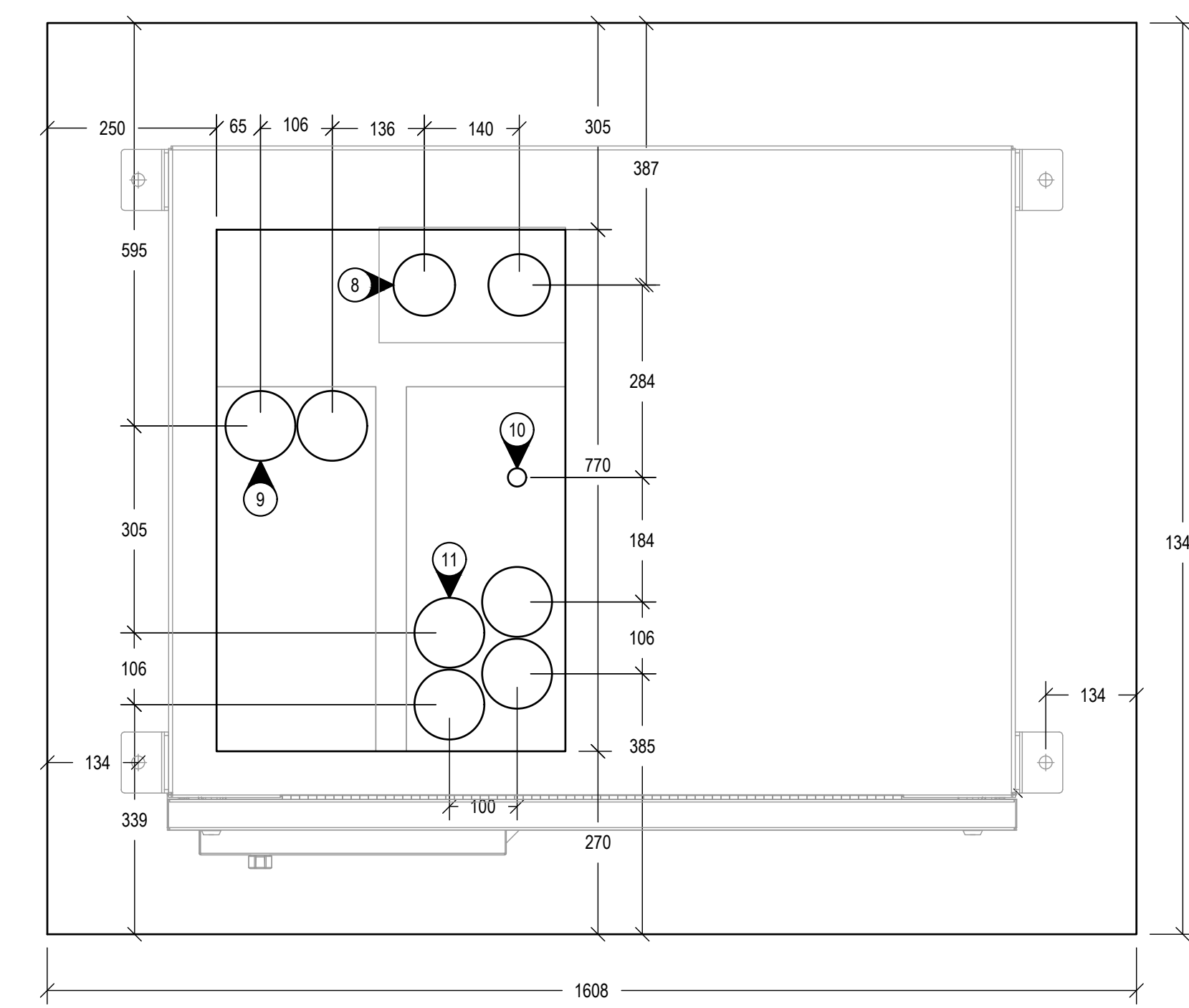
2 FLO SMARTDC CHARGER CONCRETE PAD STUB UP PROFILE  
E-06 1:8



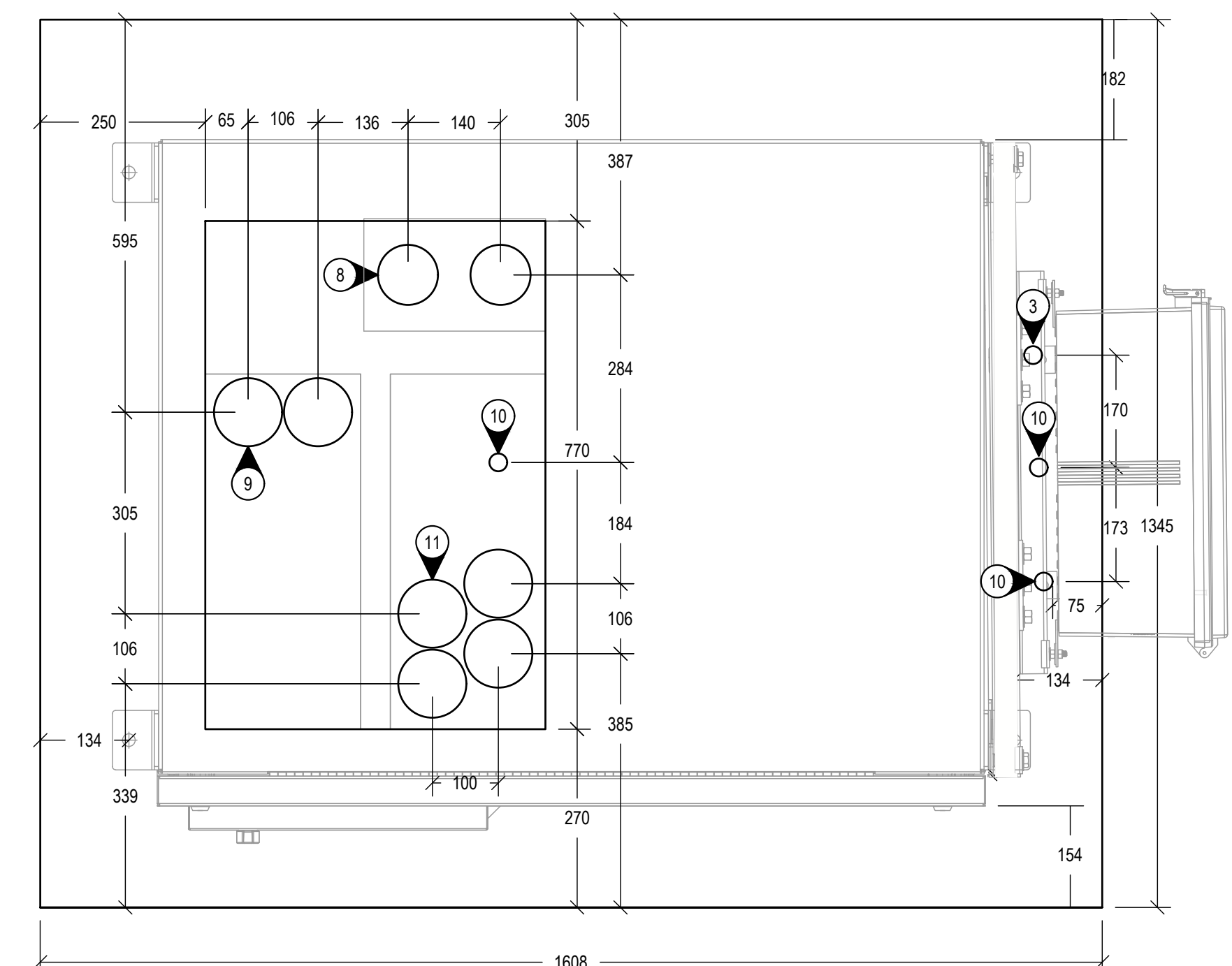
3 AUTOTRANSFORMER 3 CONCRETE PAD STUB UP PROFILE  
E-06 1:8



4 AUTOTRANSFORMERS 1 & 2 CONCRETE PAD STUB UP PROFILE  
E-06 1:8



5 CABINETS 1 CONCRETE PAD STUB UP PROFILE  
E-06 1:8



6 CABINETS 2 CONCRETE PAD STUB UP PROFILE  
E-06 1:8

- KEYNOTES:**
- 1 3 SETS OF 103mmC(4") FROM UTILITY PADMOUNT TRANSFORMER TO SERVICE ENTRANCE SWITCHBOARD.
  - 2 1 SET OF 53mmC(2") FROM SERVICE ENTRANCE SWITCHBOARD TO AUTOTRANSFORMER 3.
  - 3 1 SET OF 27mmC(1") FROM SERVICE ENTRANCE SWITCHBOARD TO SITE CONTROLLER.
  - 4 1 SET OF 27mmC(1") FROM SERVICE ENTRANCE SWITCHBOARD TO LIGHTPOSTS.
  - 5 4 SETS OF 78mmC(3") FROM SERVICE ENTRANCE SWITCHBOARD TO AUTOTRANSFORMER 1 & 2.
  - 6 1 SET OF 53mmC(2") FROM AUTOTRANSFORMER 3 TO FLO SMARTDC CHARGER.
  - 7 2 SETS OF 78mmC(3") FROM SERVICE ENTRANCE SWITCHBOARD TO AUTOTRANSFORMER (TYP.).
  - 8 2 SETS OF 103mmC(4") FROM AUTOTRANSFORMER TO CABINET (TYP.).
  - 9 2 SETS OF 78mmC(3") FOR SHARED DC BUSSING BETWEEN TESLA V3 SUPERCHARGER CABINETS 1 AND 2.
  - 10 1 SET OF 27mmC(1") FROM SITE CONTROLLER TO EACH TESLA V3 SUPERCHARGER CABINET (TYP.).
  - 11 4 SETS OF 103mmC(4") FROM TESLA V3 SUPERCHARGER CABINET TO SUPERCHARGER POSTS (TYP.).

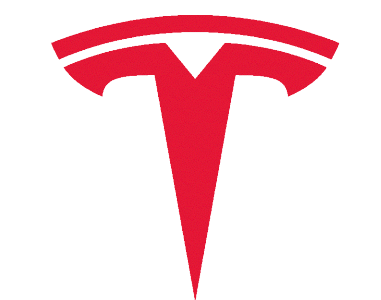
- GENERAL NOTES:**
- A. REFER TO BC HYDRO UNDERGROUND CIVIL MANUAL ES54 S2-01.08 FOR SERVICE ENTRANCE SWITCHBOARD INSTALLATION.
  - B. CONDUIT STUB UP LOCATIONS SHOWN ARE INDICATIVE ONLY, AND SHALL BE CONFIRMED WITH SHOP DRAWINGS OF EQUIPMENT AND ACTUAL SITE CONDITIONS.
  - C. THE LOCATIONS OF THE CONDUIT STUB-UPS FOR THE SITE CONTROLLER HAVE BEEN SHOWN ON THE STRUCTURAL FOOTING (DETAIL 6). THE CONDUIT PENETRATIONS THROUGH THE BOTTOM OF THE SITE CONTROLLER HAVE NOT BEEN SHOWN. CONDUITS SHALL EXIT THE STRUCTURAL FOOTING AT NINETY DEGREES (90°) AND THEN UTILIZE AN S-BEND TO ENSURE THE CONDUITS ALIGN AT NINETY DEGREES (90°) WITH THE KNOCKOUTS ON THE BOTTOM OF THE SITE CONTROLLER. ENSURE THE S-BENDS FOR ALL CONDUITS ARE UNIFORM.

Contractor must check and verify all dimensions and conditions on site and report any discrepancies to designer and/or engineer prior to proceeding with work.

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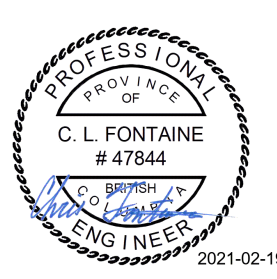
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TESLA

ELECTRICAL ENGINEERS:



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PROJECT NAME:

**TESLA CACHE CREEK SUPERCHARGER INSTALLATION**

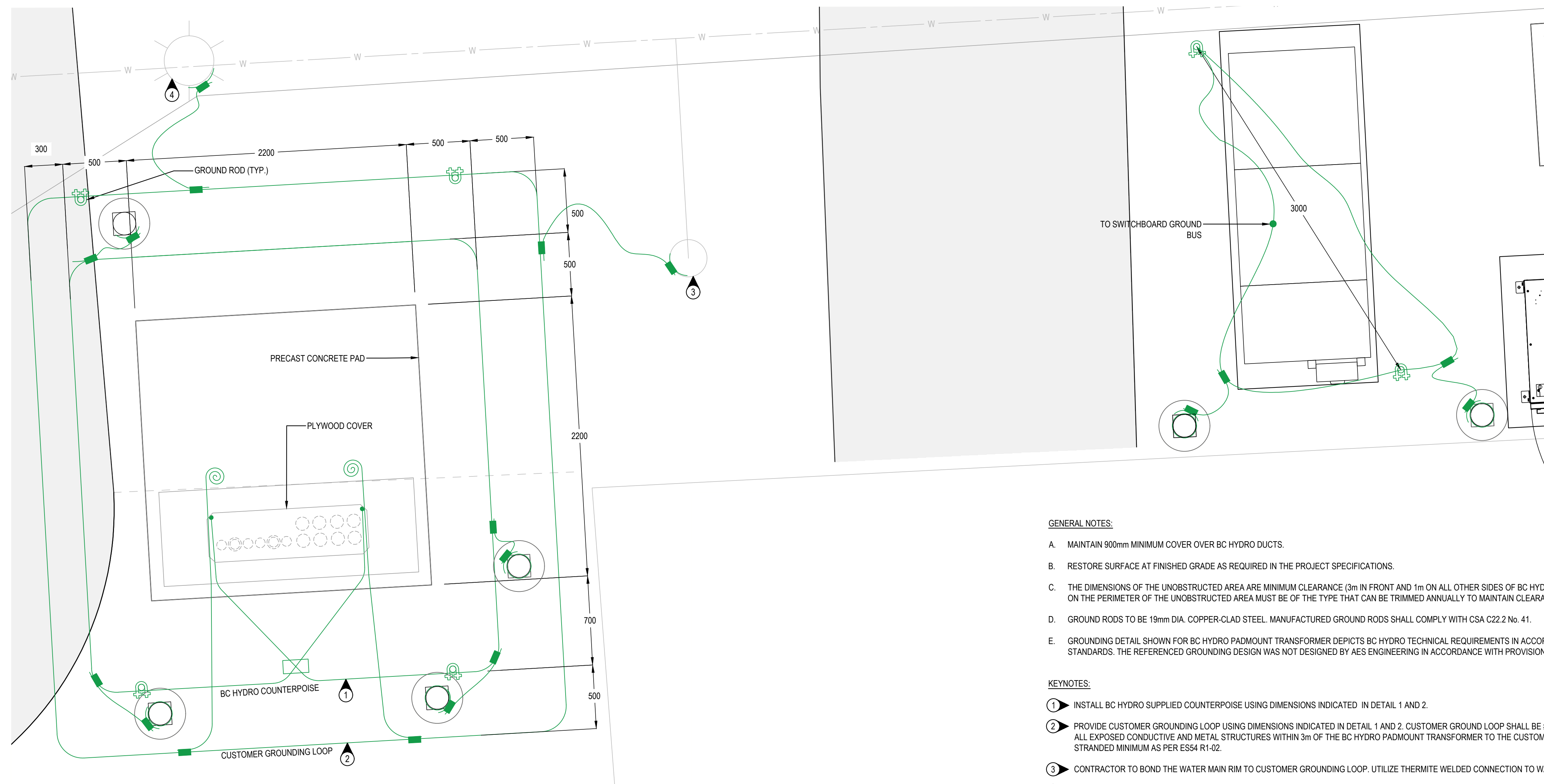
PROJECT ADDRESS:  
1270 STAGE ROAD  
CACHE CREEK, BC V0K 1H0

DRAWING TITLE:  
**STRUCTURAL FOOTING CONDUIT STUB UP DETAILS**

DATE:	AUGUST 2020
SCALE:	AS NOTED
DRAWN BY:	SX
CHECKED BY:	CF
JOB NUMBER:	2-20-363

DRAWING NUMBER:

**E-06**



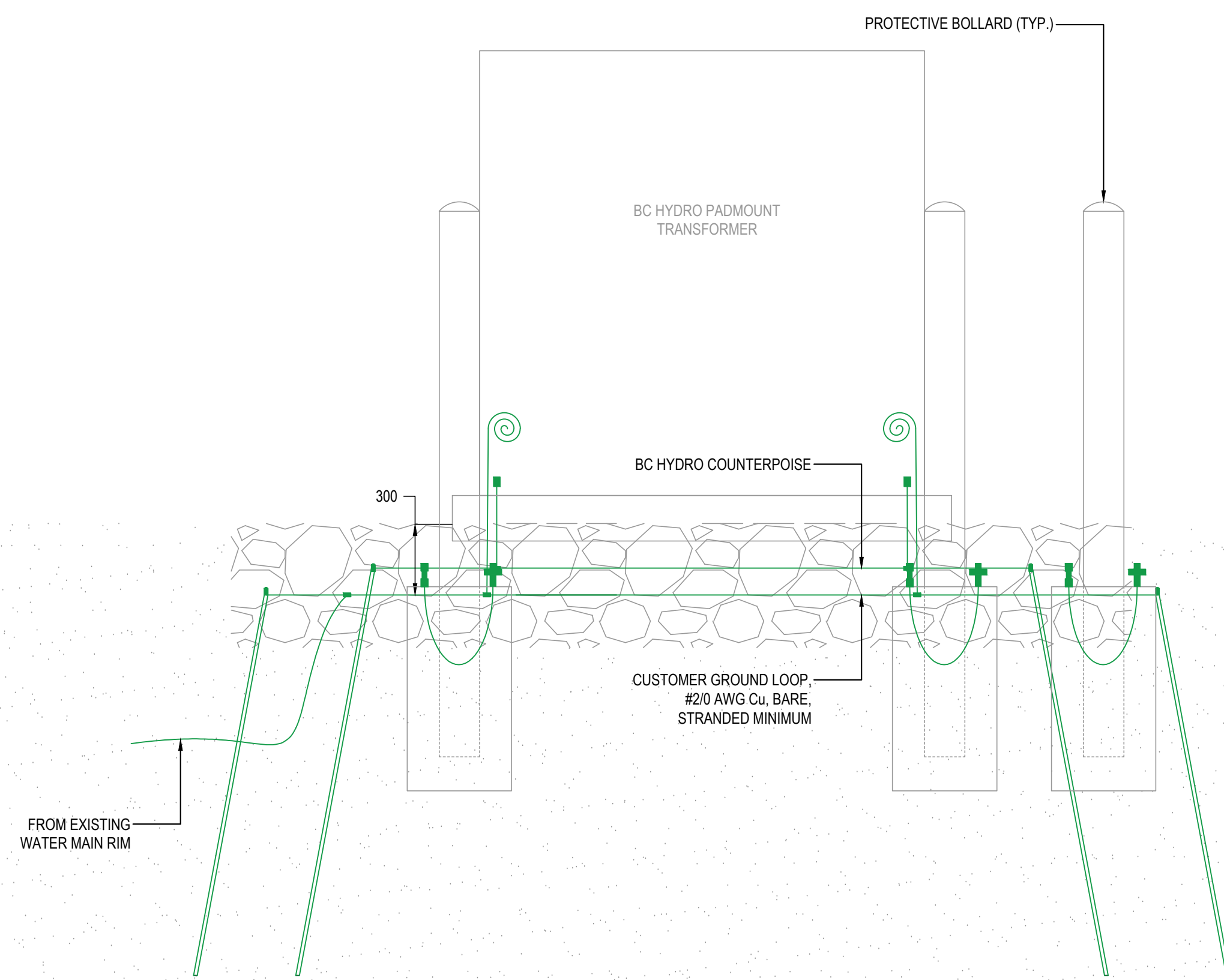
1 BC HYDRO PMT AND SWITCHBOARD GROUNDING - LAYOUT  
E-07

**GENERAL NOTES:**

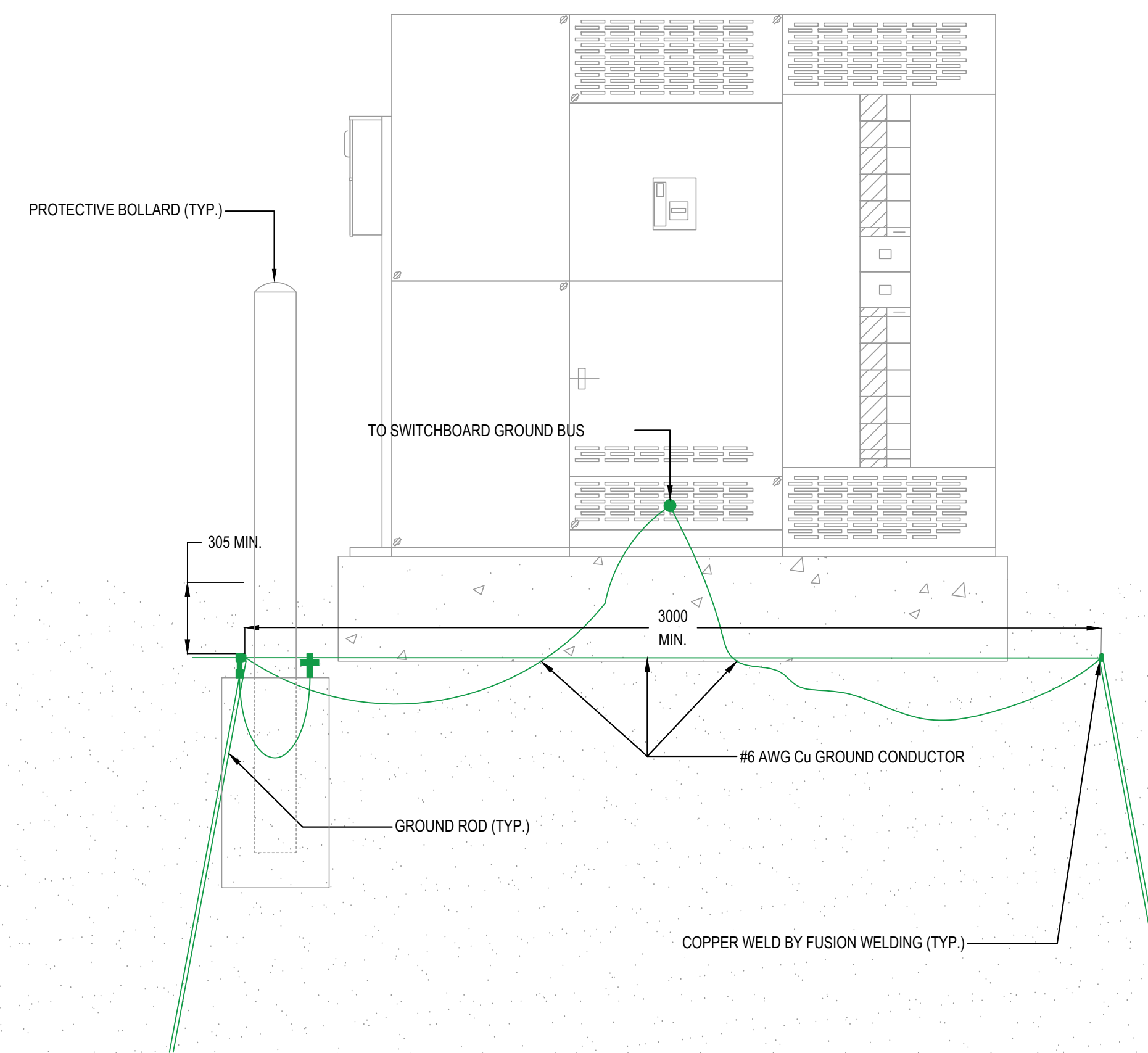
- A. MAINTAIN 900mm MINIMUM COVER OVER BC HYDRO DUCTS.
- B. RESTORE SURFACE AT FINISHED GRADE AS REQUIRED IN THE PROJECT SPECIFICATIONS.
- C. THE DIMENSIONS OF THE UNOBSTRUCTED AREA ARE MINIMUM CLEARANCE (3m IN FRONT AND 1m ON ALL OTHER SIDES OF BC HYDRO PADMOUNT TRANSFORMER). ANY VEGETATION ON THE PERIMETER OF THE UNOBSTRUCTED AREA MUST BE OF THE TYPE THAT CAN BE TRIMMED ANNUALLY TO MAINTAIN CLEARANCES.
- D. GROUND RODS TO BE 19mm DIA. COPPER-CLAD STEEL. MANUFACTURED GROUND RODS SHALL COMPLY WITH CSA C22.2 No. 41.
- E. GROUNDING DETAIL SHOWN FOR BC HYDRO PADMOUNT TRANSFORMER DEPICTS BC HYDRO TECHNICAL REQUIREMENTS IN ACCORDANCE WITH ES54 UNDERGROUND CIVIL STANDARDS. THE REFERENCED GROUNDING DESIGN WAS NOT DESIGNED BY AES ENGINEERING IN ACCORDANCE WITH PROVISIONS OF CSA C22.1-18.

**KEYNOTES:**

- 1 INSTALL BC HYDRO SUPPLIED COUNTERPOISE USING DIMENSIONS INDICATED IN DETAIL 1 AND 2.
- 2 PROVIDE CUSTOMER GROUNDING LOOP USING DIMENSIONS INDICATED IN DETAIL 1 AND 2. CUSTOMER GROUND LOOP SHALL BE #2/0 AWG Cu BARE, STRANDED MINIMUM. CONNECT ALL EXPOSED CONDUCTIVE AND METAL STRUCTURES WITHIN 3m OF THE BC HYDRO PADMOUNT TRANSFORMER TO THE CUSTOMER GROUND LOOP USING #2/0 AWG Cu, BARE, STRANDED MINIMUM AS PER ES54 R1-02.
- 3 CONTRACTOR TO BOND THE WATER MAIN RIM TO CUSTOMER GROUNDING LOOP. UTILIZE THERMITE WELDED CONNECTION TO WATER MAIN RIM, FOR FINAL BONDING CONNECTION.
- 4 CONTRACTOR TO BOND THE EXISTING LIGHTPOST TO CUSTOMER GROUNDING LOOP. UTILIZE THERMITE WELDED CONNECTION TO EXISTING LIGHTPOST, FOR FINAL BONDING CONNECTION.



2 BC HYDRO PMT GROUNDING - FRONT ELEVATION  
E-07 NTS

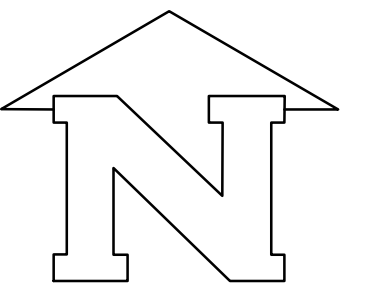


3 SWITCHBOARD GROUNDING - FRONT ELEVATION  
E-07 NTS

Contractor must check and verify all dimensions and conditions on site and report any discrepancies to designer and/or engineer prior to proceeding with work

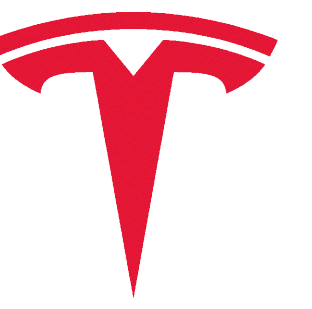
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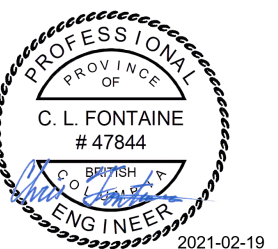
PROJECT NORTH

CLIENT:



TESLA

ELECTRICAL ENGINEERS:



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PROJECT NAME:

**TESLA CACHE CREEK SUPERCHARGER INSTALLATION**

PROJECT ADDRESS:  
1270 STAGE ROAD  
CACHE CREEK, BC V0K 1H0

DRAWING TITLE:

**GROUNDING LAYOUTS AND DETAILS**

DATE:	AUGUST 2020
SCALE:	AS NOTED
DRAWN BY:	SX
CHECKED BY:	CF
JOB NUMBER:	2-20-363

DRAWING NUMBER:

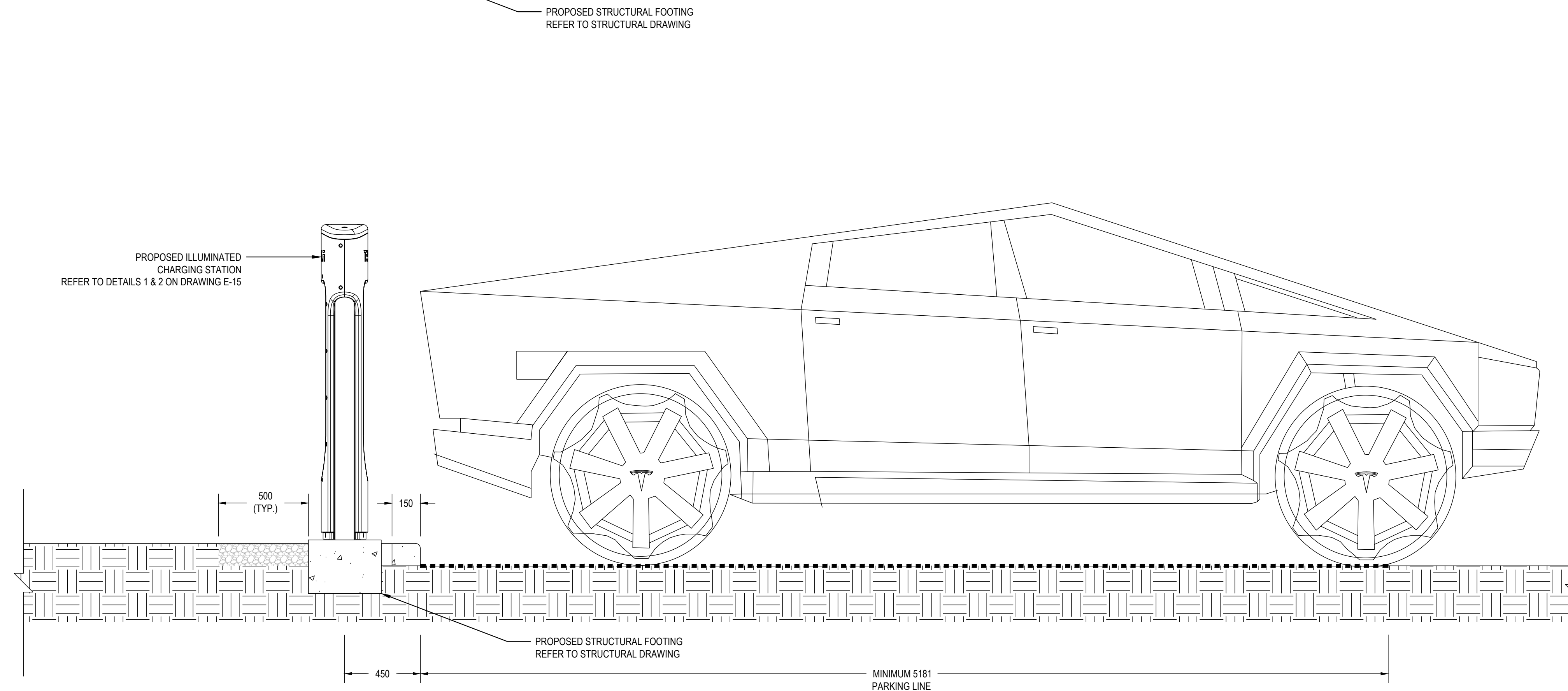
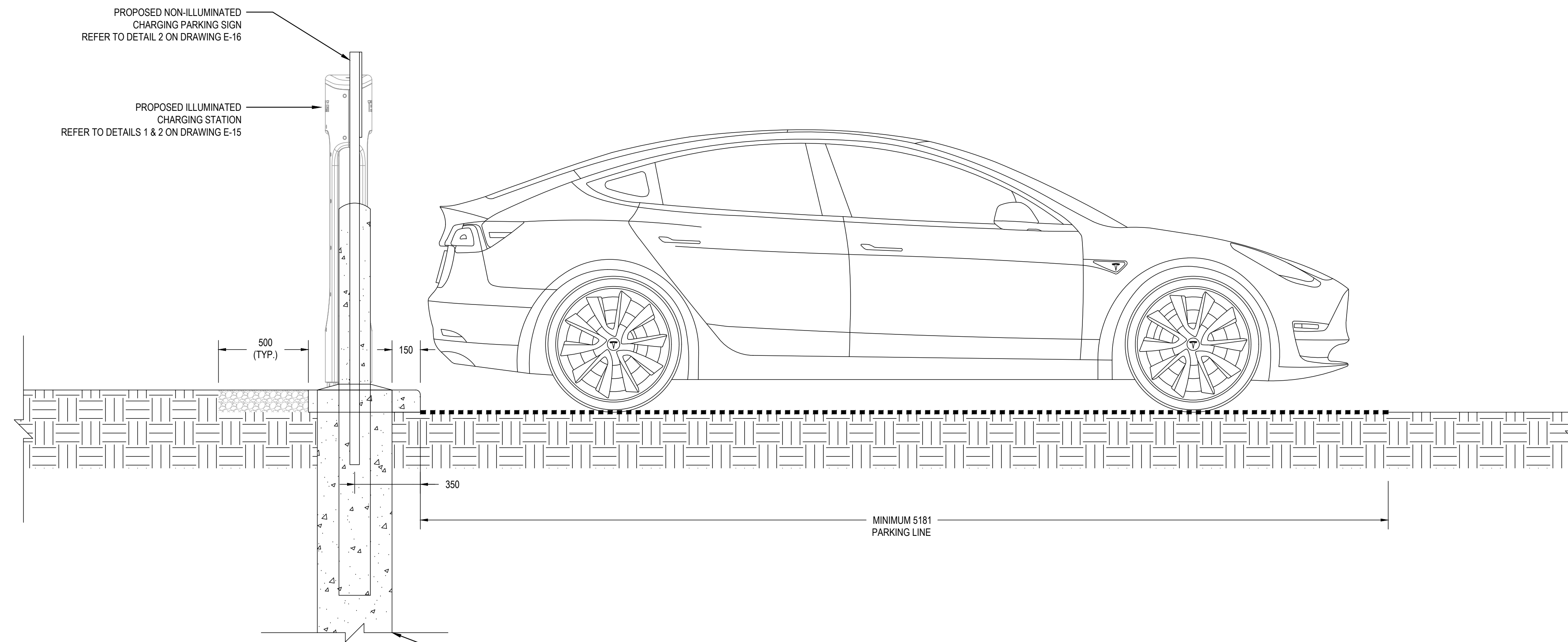
**E-07**



Contractor must check and verify all dimensions and conditions on site and report any discrepancies to designer and/or engineer prior to proceeding with work

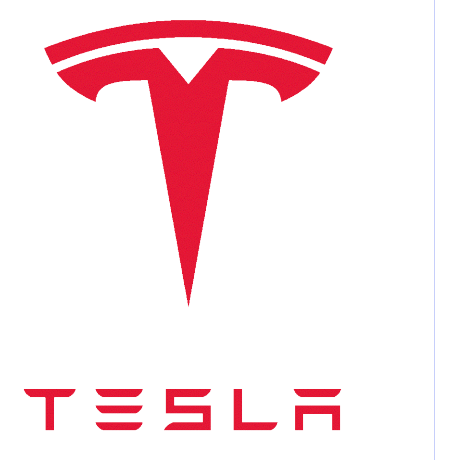
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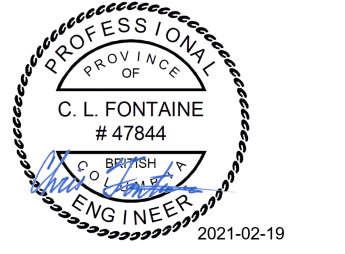


**SIGNAGE AND CHARGE POST PLACEMENT**  
1  
E-08  
NTS

CLIENT:



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PROJECT ADDRESS:

1270 STAGE ROAD  
CACHE CREEK, BC V0K 1H0

DRAWING TITLE:

**SIGNAGE AND CHARGEPOST PLACEMENT**

DATE:	AUGUST 2020
SCALE:	NTS
DRAWN BY:	SX
CHECKED BY:	CF
JOB NUMBER:	2-20-363

DRAWING NUMBER:

**E-08**

APPROXIMATE CABLE LENGTHS BY APPLICATION				
DESCRIPTION	CABLE TYPE	LENGTH OF RUN (m)	# OF SETS	TOTAL CABLE LENGTH (m)
PRIMARY FEEDER				
NEW BC HYDRO 50/2 POLE TO PROPOSED BC HYDRO PADMOUNT TRANSFORMER	SUPPLIED AND INSTALLED BY BC HYDRO	20	TBD BY BC HYDRO	TBD BY BC HYDRO
BOND	SUPPLIED AND INSTALLED BY BC HYDRO	20	TBD BY BC HYDRO	TBD BY BC HYDRO
TRANSFORMER TO SWITCHBOARD				
BC HYDRO PADMOUNT TRANSFORMER TO SWITCHBOARD	SUPPLIED AND INSTALLED BY BC HYDRO	11	TBD BY BC HYDRO	TBD BY BC HYDRO
BOND	SUPPLIED AND INSTALLED BY BC HYDRO	11	TBD BY BC HYDRO	TBD BY BC HYDRO
DC BUSSING				
BUS BAR	2#600 kcmil Al	5	2	20
MID	1#3/0 AWG Al	5	2	10
BOND	1#3 AWG Cu	5	2	10
SWITCHBOARD TO AUTOTRANSFORMER				
AUTOTRANSFORMER 1	4#300 kcmil Al	6	2	48
BOND	1#4 AWG Cu	6	2	12
AUTOTRANSFORMER 2	4#300 kcmil Al	8	2	64
BOND	1#4 AWG Cu	8	2	16
AUTOTRANSFORMER TO SUPERCHARGER CABINET				
CABINET 1	4#500 kcmil Al	5	2	40
BOND	1#3 AWG Cu	5	2	10
CABINET 2	4#500 kcmil Al	5	2	40
BOND	1#3 AWG Cu	5	2	10
SWITCHBOARD TO SITE CONTROLLER				
SITE CONTROLLER	2#12 AWG Al	8	1	16
BOND	1#12 AWG Cu	8	1	8
SWITCHBOARD TO LIGHTPOSTS				
LIGHT POST 1	2 #12 AWG Al	20	1	40
BOND	1 #12 AWG Cu	20	1	20
LIGHT POST 2	2 #12 AWG Al	27	1	54
BOND	1 #12 AWG Cu	27	1	27
CHARGING POSTS				
1A	2#350 kcmil Al	24	2	96
BOND	1#1 AWG Cu	24	1	24
1B	2#350 kcmil Al	23	2	92
BOND	1#1 AWG Cu	23	1	23
1C	2#350 kcmil Al	20	2	80
BOND	1#1 AWG Cu	20	1	20
1D	2#350 kcmil Al	18	2	72
BOND	1#1 AWG Cu	18	1	18
2A	2#350 kcmil Al	16	2	64
BOND	1#1 AWG Cu	16	1	16
2B	2#350 kcmil Al	19	2	76
BOND	1#1 AWG Cu	19	1	19
2C	2#350 kcmil Al	22	2	88
BOND	1#1 AWG Cu	22	1	22
2D	2#350 kcmil Al	25	2	100
BOND	1#1 AWG Cu	25	1	25
SITE CONTROLLER TO SUPERCHARGER CABINETS				
CABINET 1	SHIELDED CAT6	6	1	6
CABINET 2	SHIELDED CAT6	4	1	4
SWITCHBOARD TO AUTOTRANSFORMER 3				
AUTOTRANSFORMER 3	4#1 AWG Al	27	1	108
BOND	1#6 AWG Cu	27	1	27
AUTOTRANSFORMER 3 TO FLO SMARTDC CHARGER				
FLO SMARTDC	4#2/0 AWG Al	4	1	16
BOND	1#6 AWG Cu	4	1	4

1 E-09 APPROXIMATE CABLE LENGTHS BY APPLICATION

APPROXIMATE CABLE LENGTHS BY TYPE & SIZE	
CABLE TYPE	LENGTH OF CABLE (m)
SHIELDED CAT6	10
#12 AWG Al	110
#12 AWG Cu	55
#6 AWG Cu	29
#4 AWG Cu	28
#3 AWG Cu	30
#2/0 AWG Al	16
#1 AWG Al	108
#1 AWG Cu	167
#3/0 AWG Al	10
#300kcmil Al	112
#350kcmil Al	668
#500kcmil Al	80
#600kcmil Al	20

2 E-09 APPROXIMATE CABLE LENGTHS BY TYPE

APPROXIMATE CONDUIT LENGTHS BY SIZE	
CONDUIT TYPE	LENGTH OF CONDUIT (m)
27mm (1") RIGID PVC	65
35mm (1-1/4") RIGID PVC	5
53mm (2") RIGID PVC	31
78mm (3") RIGID PVC	98
103mm (4") RIGID PVC	220

3 E-09 APPROXIMATE CONDUIT LENGTHS BY TYPE

APPROXIMATE CONDUIT LENGTHS BY APPLICATION				
DESCRIPTION	CONDUIT SIZE	LENGTH OF RUN (m)	# OF SETS	TOTAL CONDUIT LENGTH (m)
NEW BC HYDRO 50/2 POLE TO PMT				
PMT	78mm (3") RIGID PVC	20	3	60
PMT TO SWITCHBOARD				
SWITCHBOARD	103mm (4") RIGID PVC	11	3	33
DC BUSSING				
BUS BAR FROM CABINET 1 TO 2	78mm (3") RIGID PVC	5	2	10
SWITCHBOARD TO AUTOTRANSFORMER 1 AND 2				
AUTOTRANSFORMER 1	78mm (3") RIGID PVC	6	2	12
AUTOTRANSFORMER 2	78mm (3") RIGID PVC	8	2	16
SWITCHBOARD TO LIGHTPOSTS				
LIGHT POST 1	27mmC (1")	20	1	20
LIGHT POST 2	27mmC (1")	27	1	27
AUTOTRANSFORMER TO SUPERCHARGER CABINET				
CABINET 1	103mm (4") RIGID PVC	5	2	10
CABINET 2	103mm (4") RIGID PVC	5	2	10
SWITCHBOARD TO SITE CONTROLLER				
SITE CONTROLLER	27mm (1") RIGID PVC	8	1	8
CHARGING POSTS				
1A	103mm (4") RIGID PVC	24	1	24
1B	103mm (4") RIGID PVC	23	1	23
1C	103mm (4") RIGID PVC	20	1	20
1D	103mm (4") RIGID PVC	18	1	18
2A	103mm (4") RIGID PVC	16	1	16
2B	103mm (4") RIGID PVC	19	1	19
2C	103mm (4") RIGID PVC	22	1	22
2D	103mm (4") RIGID PVC	25	1	25
SITE CONTROLLER TO SUPERCHARGER CABINETS				
CABINET 1	27mm (1") RIGID PVC	6	1	6
CABINET 2	27mm (1") RIGID PVC	4	1	4
SWITCHBOARD TO AUTOTRANSFORMER 3				
AUTOTRANSFORMER 3	53mm (2") RIGID PVC	27	1	27
AUTOTRANSFORMER 3 TO FLO SMARTDC CHARGER				
FLO SMARTDC	53mm (2") RIGID PVC	4	1	4
SWITCHBOARD METERING COMPARTMENT TO METERING ENCLOSURE				
METERING ENCLOSURE	35mm (1-1/4") RIGID PVC	5	1	5

4 E-09 APPROXIMATE CONDUIT LENGTHS BY APPLICATION

GENERAL NOTES:

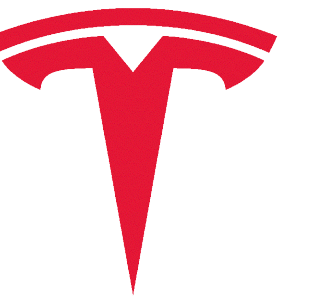
- A. TOTAL CABLE LENGTHS REPRESENT EQUIVALENT CABLE RUN USING SINGLE CONDUCTORS. REFER TO SINGLE LINE DIAGRAM FOR NUMBER OF CABLES AND PARALLEL SETS.
- B. CABLE LENGTHS ARE APPROXIMATE IN NATURE AND ARE PROVIDED SOLELY FOR THE BENEFIT OF ASSISTING THE CONTRACTOR IN PRICING THE WORKS. THE CONTRACTOR IS STILL RESPONSIBLE FOR CONFIRMING THE EXACT CABLE LENGTHS REQUIRED AND PROVIDING ALL NECESSARY CABLING TO COMPLETE THE PROJECT.
- C. CABLE LENGTH IS SUBJECT TO CHANGE UPON FURTHER COORDINATION.
- D. CONDUITS AND ROUTING ARE SHOWN TO INDICATE DESIGN INTENT. COORDINATE FINAL INSTALLATION WITH SITE CONDITIONS AND FINAL SELECTIONS OF EQUIPMENT.
- E. INSTALLATION OF UNDERGROUND CONDUITS MUST BE IN ACCORDANCE WITH CSA C22.1-18. REFER TO ELECTRICAL DRAWINGS E-03 AND E-04 FOR ADDITIONAL DETAILS.

Contractor must check and verify all dimensions and conditions on site and report any discrepancies to designer and/or engineer prior to proceeding with work

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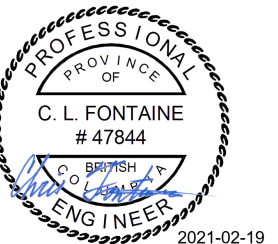
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2	ISSUED FOR INFORMATION	NOV 13, 2020
1	ISSUED FOR COORDINATION	AUG 26, 2020

PROJECT NAME:

TESLA CACHE CREEK SUPERCHARGER INSTALLATION

PROJECT ADDRESS:  
1270 STAGE ROAD  
CACHE CREEK, BC V0K 1H0

DRAWING TITLE:

APPROXIMATE CABLE AND CONDUIT LENGTHS TABLES

DATE:	AUGUST 2020
SCALE:	N/A
DRAWN BY:	SX
CHECKED BY:	CF
JOB NUMBER:	2-20-363

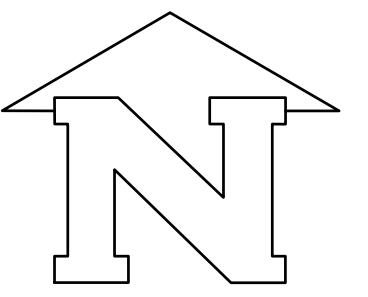
DRAWING NUMBER:

E-09

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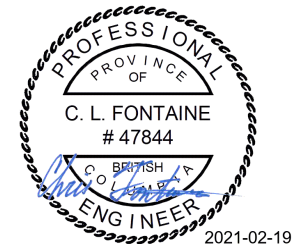


PROJECT NORTH

CLIENT:



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1	ISSUED FOR COORDINATION	AUG 26, 2020

PROJECT NAME:

**TESLA CACHE CREEK SUPERCHARGER INSTALLATION**

PROJECT ADDRESS:  
1270 STAGE ROAD  
CACHE CREEK, BC V0K 1H0

DRAWING TITLE:

**UTILITY LAYOUT & RESPONSIBILITIES BREAKDOWN AND PROCUREMENT TABLE**

DATE:	AUGUST 2020
SCALE:	AS NOTED
DRAWN BY:	SX
CHECKED BY:	CF
JOB NUMBER:	2-20-363

DRAWING NUMBER:

**E-10**

EQUIPMENT PROCUREMENT RESPONSIBILITIES		
EQUIPMENT	TESLA	CONTRACTOR
1200A SWITCHBOARD (INCLUDING CIRCUIT BREAKERS)	X	
TESLA V3 SUPERCHARGER CABINETS (x2)	X	
TESLA V3 SUPERCHARGER POSTS (x8)	X	
TESLA SITE CONTROLLER (x1)	X	
450kVA AUTOTRANSFORMERS (x2)	X	
75kVA AUTOTRANSFORMER (x1)	X	
FLO SMARTDC CHARGER (x1)	X	
IDENTIFICATION LAMACOIDS (WHITE LETTERS, BLACK BACKGROUND)		X
H-FRAME STRUT FOR MOUNTING SITE CONTROLLER (x1)		X
ALL MATERIALS NECESSARY FOR SECURING SITE CONTROLLER TO H-FRAME STRUT		X
UNISTRUT FOR MOUNTING UTILITY METER ENCLOSURE (x1)		X
ALL MATERIALS NECESSARY FOR SECURING UTILITY METER ENCLOSURE TO UNISTRUT FRAME		X
COMBINATION SIGN POST-BOLLARD (x6)		X
LUMINAIRE (X2), LIGHTPOST (X2) AND MOUNTING HARDWARE/ANCHORS	X	
LIGHTPOST CAST-IN-PLACE BASE (X2)		X
TESLA ELECTRIC VEHICLE CHARGE SIGNAGE (x8)	X	
RED POLY COVERS FOR COMBINATION SIGN POST-BOLLARDS (x6)	X	
GROUNDING RODS		X
#6 AWG Cu GROUNDING CONDUCTORS		X
#600kcmil Al CABLING (REFER TO CABLE LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
#500kcmil Al CABLING (REFER TO CABLE LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
#350kcmil Al CABLING (REFER TO CABLE LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
#300kcmil Al CABLING (REFER TO CABLE LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
#30 Al CABLING (REFER TO CABLE LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
#20 Al CABLING (REFER TO CABLE LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
#1 AWG Al CABLING (REFER TO CABLE LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
#12 AWG Al CABLING (REFER TO CABLE LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
#1 AWG Cu CABLING (REFER TO CABLE LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
#3 AWG Cu CABLING (REFER TO CABLE LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
#4 AWG Cu CABLING (REFER TO CABLE LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
#6 AWG Cu CABLING (REFER TO CABLE LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
#12 AWG Cu CABLING (REFER TO CABLE LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
SHIELDED CAT6 CABLING*		X
TESLA SIGNAL WIRE BUNDLE	X	
103mm (4") RPVC SCHEDULE 40 CONDUIT (REFER TO CONDUIT LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
78mm (3") RPVC SCHEDULE 40 CONDUIT (REFER TO CONDUIT LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
53mm (2") RPVC SCHEDULE 40 CONDUIT (REFER TO CONDUIT LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
35mm (1-1/4") RPVC SCHEDULE 40 CONDUIT (REFER TO CONDUIT LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
27mm (1") RPVC SCHEDULE 40 CONDUIT (REFER TO CONDUIT LENGTH TABLE FOR APPROXIMATE LENGTH)*		X
ALL MATERIALS NECESSARY FOR A COMPLETE CIVIL INSTALLATION		X
ALL MATERIALS NECESSARY FOR SECURING EQUIPMENT TO STRUCTURAL FOOTING		X
ALL MATERIALS NECESSARY FOR BACKFILLING OF CABLE TRENCHES		X
ANY OTHER MATERIALS NOT ALREADY LISTED WHICH ARE REQUIRED FOR A COMPLETE INSTALLATION		X

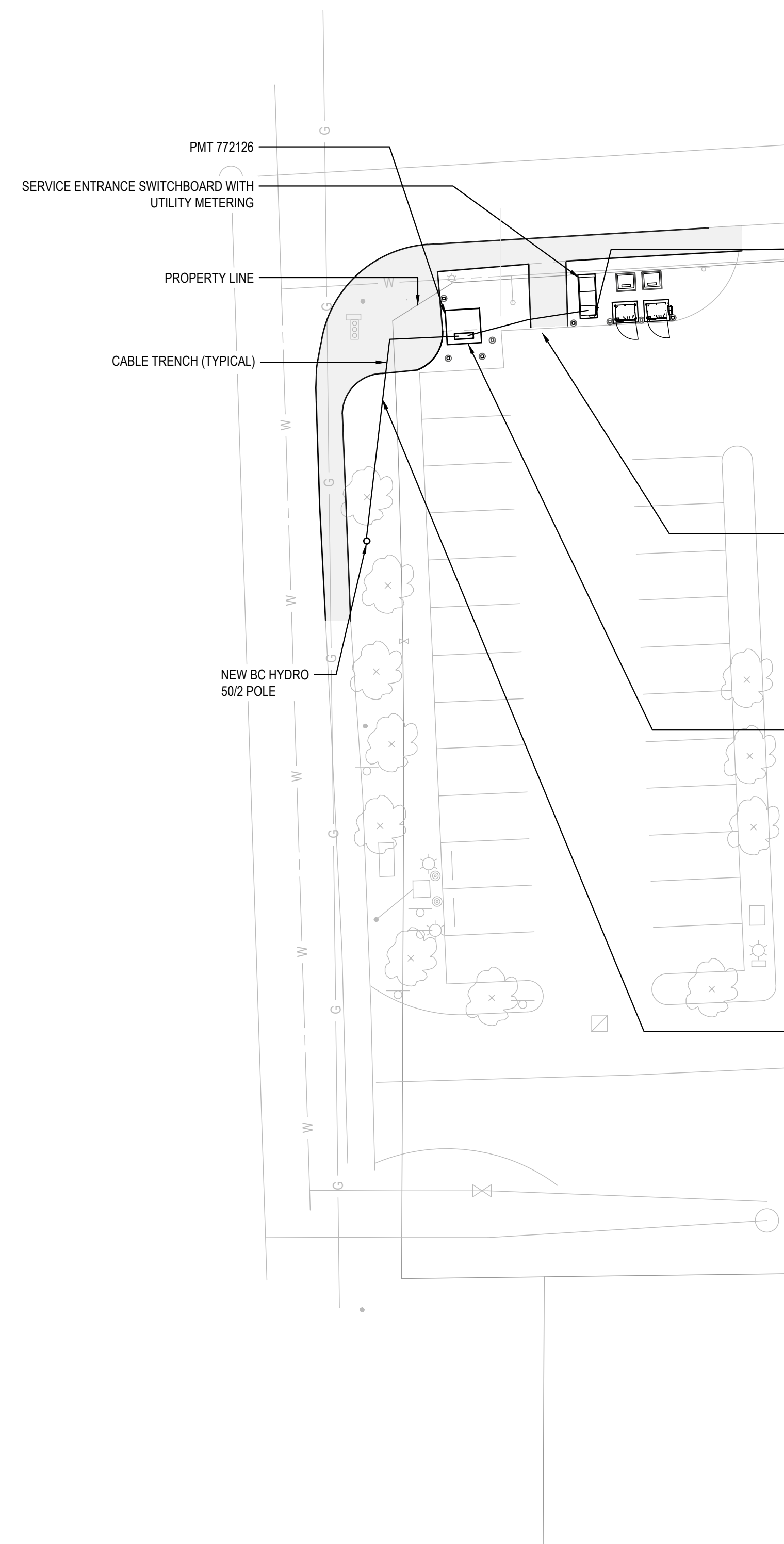
\*CONTRACTOR SHALL PROVIDE A SEPARATE BREAKOUT PRICE FOR CABLING SUPPLY COST

**1 E-10 PROCUREMENT RESPONSIBILITY TABLE**

**DISCLAIMER:**  
COORDINATE FINAL PRIMARY AND SECONDARY CONDUIT ROUTE WITH BC HYDRO. DO NOT PROCEED WITH CONSTRUCTION UNTIL BC HYDRO DESIGN & CIVIL DRAWINGS HAVE BEEN ISSUED FOR CONSTRUCTION.

**GENERAL NOTES:**

- A. REFER TO BC HYDRO UTILITY DRAWINGS FOR ADDITIONAL INFORMATION REGARDING UTILITY DESIGN AND RESPONSIBILITY BREAKDOWN



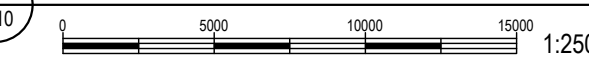
**METERING:**  
**CONTRACTOR RESPONSIBILITIES:**  
- PROVIDE UNISTRUT MOUNTING FOR BC HYDRO METER ENCLOSURE;  
- PROVIDE 35mm (1-1/4") EMPTY RIGID PVC CONDUIT COMPLETE WITH PULLSTRING BETWEEN METER ENCLOSURE AND SWITCHBOARD UTILITY COMPARTMENT;  
- PROVIDE AN INSTRUMENT TRANSFORMER ENCLOSURE;  
- PROVIDE A HYDEL MODEL CTS130PW-BC (13 JAW) OR MICROELECTRIC MODEL CT113-L (13-JAW) TRANSFORMER-TYPE METER SOCKET;  
- INSTALL THE CTs AND MAKE THE CT PRIMARY CONNECTIONS.  
**BC HYDRO RESPONSIBILITIES:**  
- SUPPLY THE CTs AND VTs;  
- MAKE THE VT PRIMARY CONNECTIONS;  
- SUPPLY AND INSTALL THE TEST SWITCH, METER AND METERING WIRING.

**SECONDARY SIDE CABLING:**  
**CONTRACTOR RESPONSIBILITIES:**  
- PROVIDE PADMOUNT TRANSFORMER SECONDARY SIDE CABLE TRENCH TO SWITCHBOARD;  
- PROVIDE CONDUIT AS INDICATED IN BC HYDRO DESIGN (3 SETS OF 103mm RIGID PVC CONDUIT C/W PULLSTRINGS);  
**BC HYDRO RESPONSIBILITIES:**  
- PROVIDE CABLING AS INDICATED IN BC HYDRO DESIGN;  
- MAKE FINAL CONNECTIONS TO SWITCHBOARD TERMINATION BLOCK.

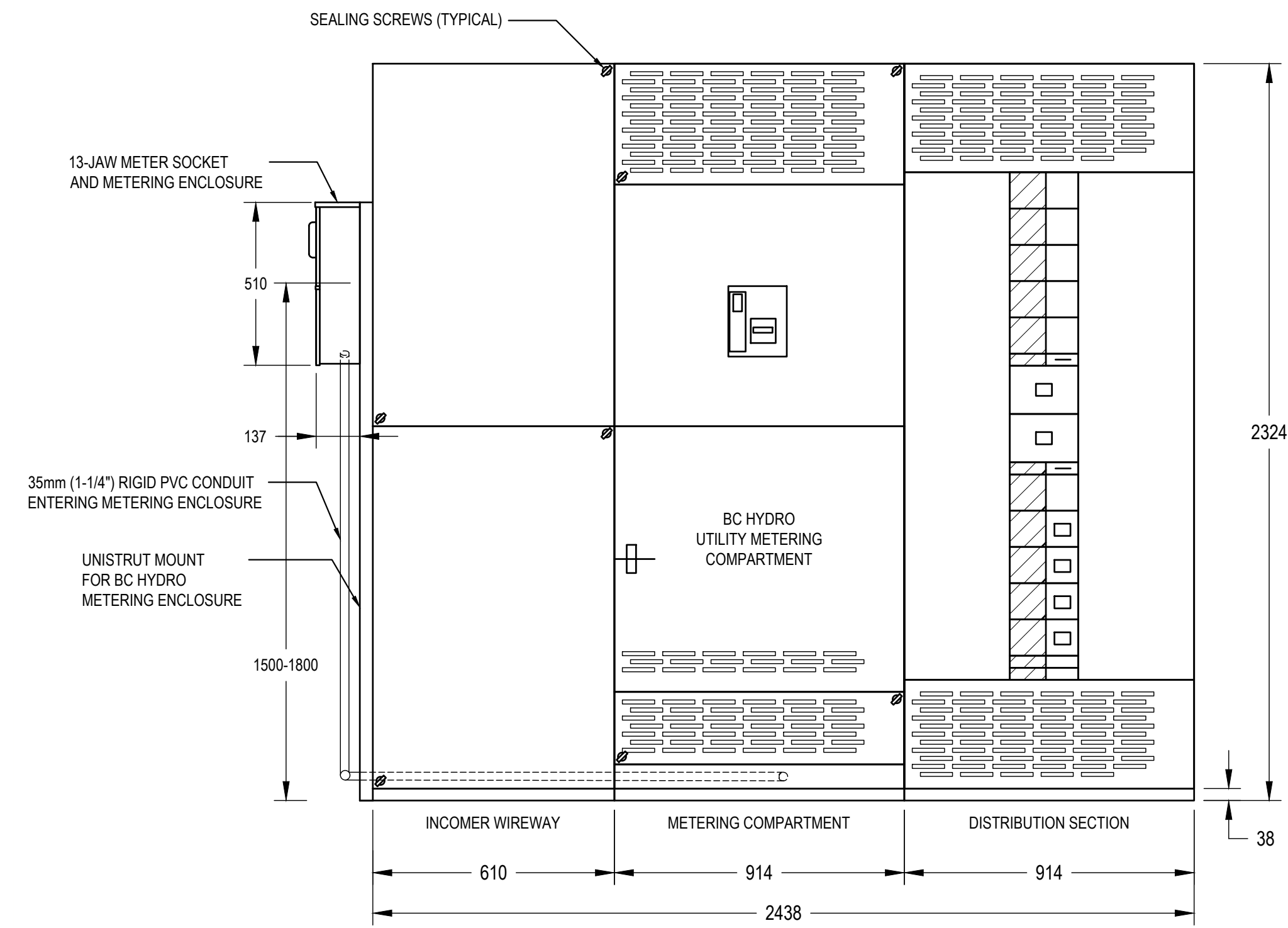
**PADMOUNT TRANSFORMER:**  
**CONTRACTOR RESPONSIBILITIES:**  
- INSTALL PRE-CAST STRUCTURAL FOOTING FOR BC HYDRO PADMOUNT TRANSFORMER;  
- INSTALL GROUNDING FOR PADMOUNT TRANSFORMER;  
- INSTALL PADMOUNT TRANSFORMER;  
- INSTALL PROTECTIVE BOLLARDS FOR PADMOUNT TRANSFORMER AS INDICATED IN BC HYDRO DESIGN.  
**BC HYDRO RESPONSIBILITIES:**  
- SUPPLY NEW 1000kVA, 24.94kV/600Y/347V PADMOUNT TRANSFORMER;  
- SUPPLY PRE-CAST STRUCTURAL FOOTING FOR PADMOUNT TRANSFORMER;  
- SUPPLY PROTECTIVE BOLLARDS;  
- MAKE ALL CABLE CONNECTIONS TO PADMOUNT TRANSFORMER PRIMARY BUSHINGS;  
- MAKE ALL CABLE CONNECTIONS TO PADMOUNT TRANSFORMER SECONDARY BUSHINGS;  
- SUPPLY GROUNDING KIT, GROUNDING ROD AND 20m COUNTERPOISE FOR THE PADMOUNT TRANSFORMER.

**PRIMARY SIDE CABLING:**  
**CONTRACTOR RESPONSIBILITIES:**  
- PROVIDE PADMOUNT TRANSFORMER PRIMARY SIDE CABLE TRENCH;  
- PROVIDE CONDUIT AS INDICATED IN BC HYDRO DESIGN (3 SETS OF 78mm RIGID PVC CONDUITS C/W PULLSTRING);  
- PROVIDE RED FLAG INDICATORS FOR BC HYDRO WHERE CONDUITS END AT THE PROPERTY LINE;  
- INSTALL PILASTER FOR THE SUPPORT WIRE FOR THE NEW BC HYDRO POLE;  
- PROVIDE ALL MATERIAL TO BACKFILL TRENCH, AND PAVEMENT/ASPHALT REPLACEMENT, AS NECESSARY.  
**BC HYDRO RESPONSIBILITIES:**  
- SUPPLY NEW BC HYDRO 50/2 POLE AS INDICATED IN BC HYDRO DESIGN;  
- PERFORM ALL WORK AND PROVIDE ALL MATERIALS NECESSARY FOR A COMPLETE INSTALLATION BETWEEN NEW BC HYDRO 50/2 POLE AND THE NEW PADMOUNT TRANSFORMER AS INDICATED IN BC HYDRO DESIGN.

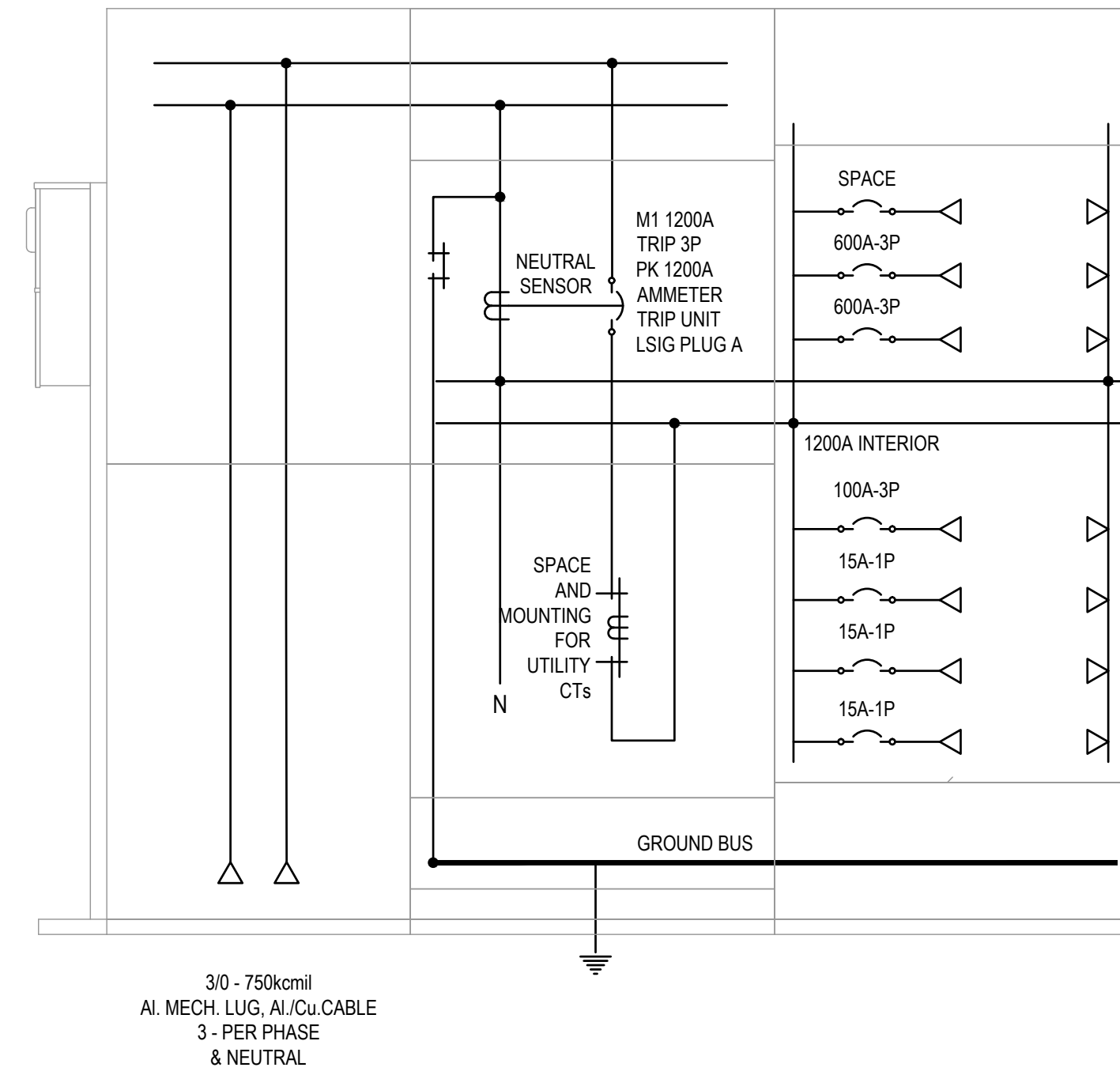
**2 E-10 UTILITY LAYOUT & RESPONSIBILITIES BREAKDOWN**



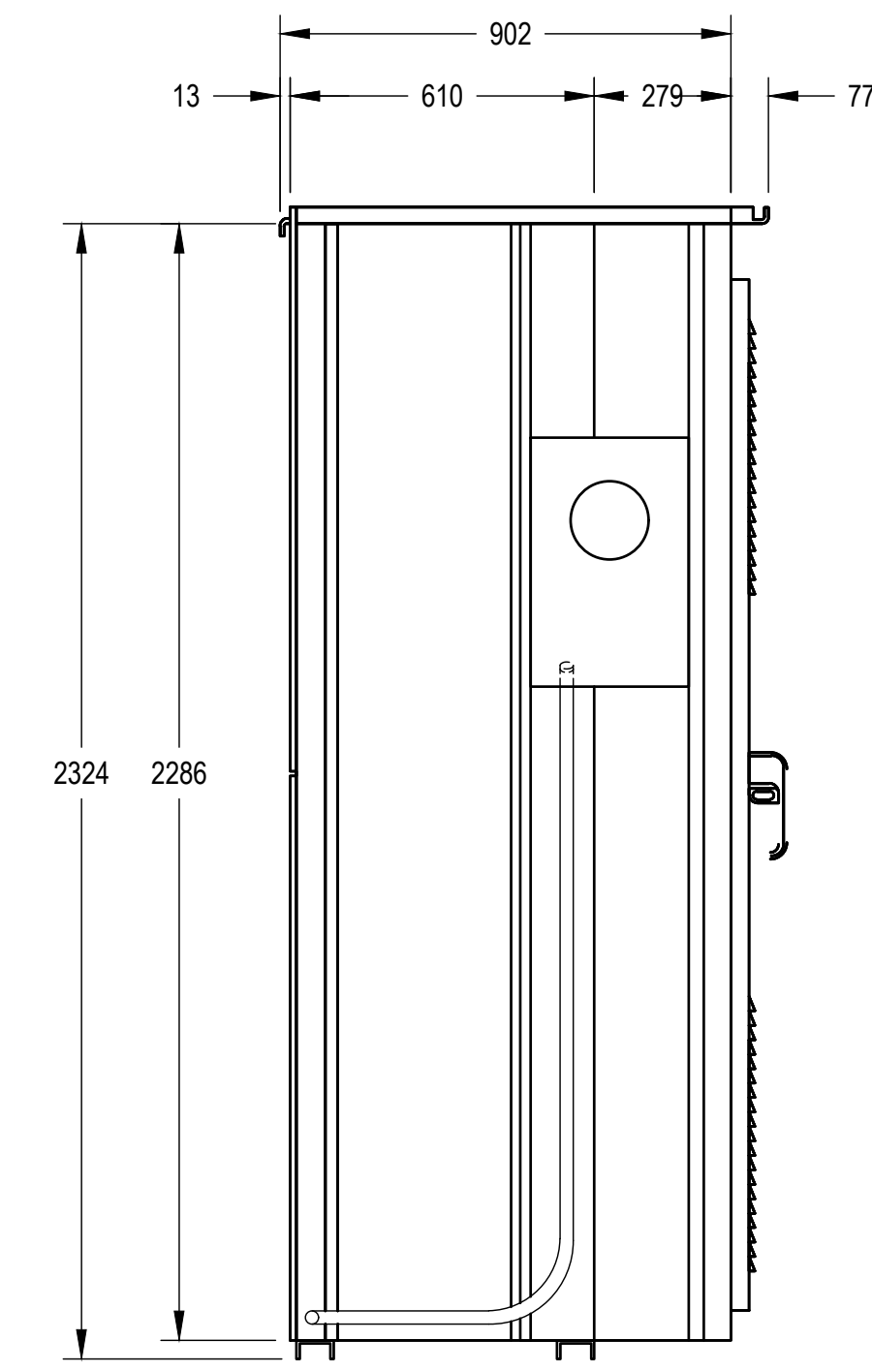




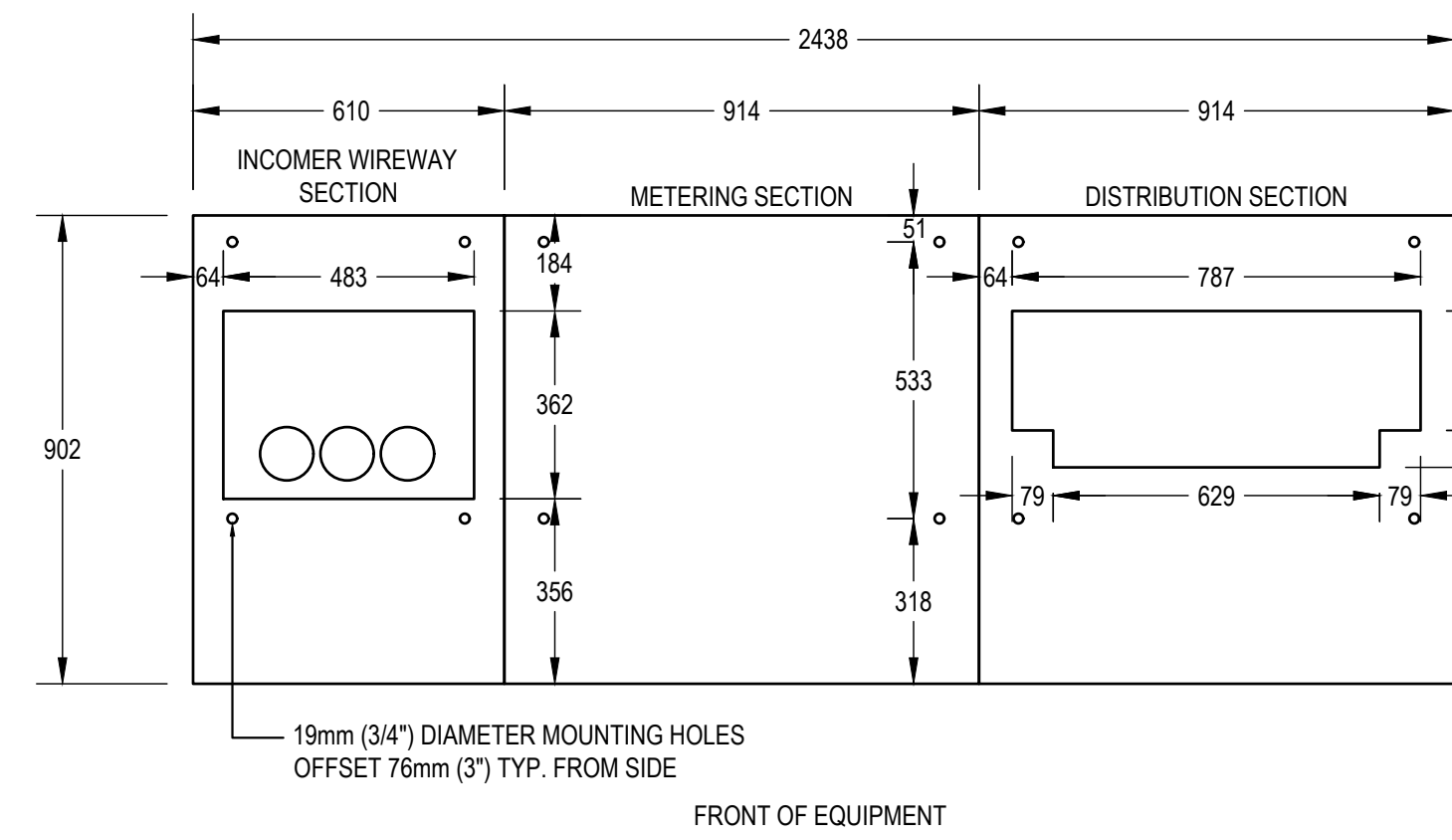
1 SWITCHBOARD FRONT VIEW  
E-12 NTS



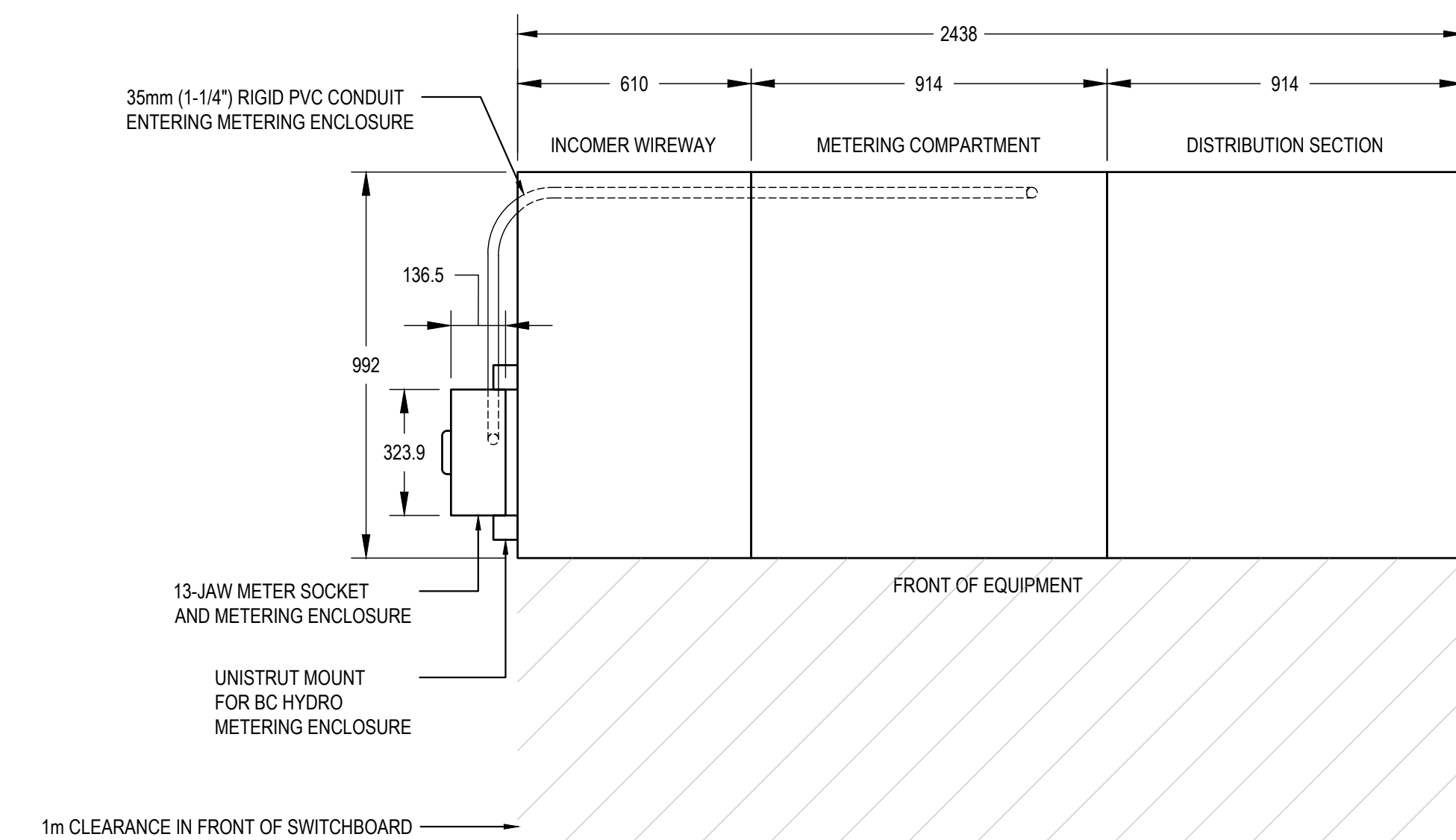
4 SWITCHBOARD MIMIC DIAGRAM  
E-12 NTS



5 SWITCHBOARD LEFT SIDE VIEW  
E-12 NTS



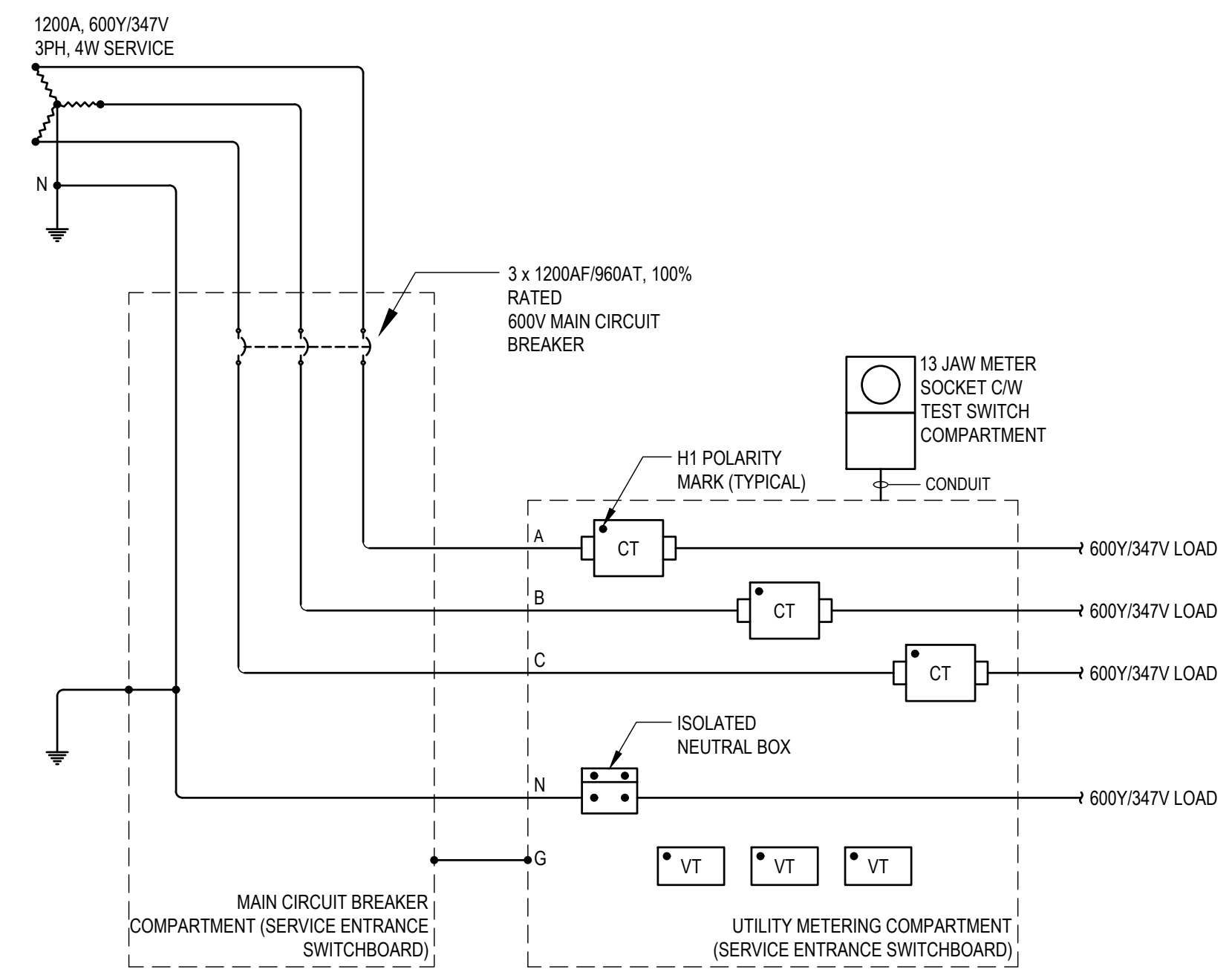
2 SWITCHBOARD FLOOR PLAN  
E-12 NTS



3 SWITCHBOARD TOP VIEW  
E-12 NTS

GENERAL NOTES:

- REFER TO BC HYDRO CIVIL GUIDE ES54 S2-01.10 AND ES54 S2-01.04 FOR SERVICE ENTRANCE SWITCHBOARD REQUIREMENTS.
- PROVIDE 1 X 35mm (1-1/4) RIGID PVC CONDUIT BETWEEN THE TRANSFORMER TYPE METER SOCKET AND THE SWITCHBOARD METERING COMPARTMENT. CONDUIT LOCATION SHOWN IS DIAGRAMMATIC IN NATURE. ENSURE CONDUIT INSTALLATION IS IN CONFORMANCE WITH BC HYDRO REQUIREMENTS FOR SECONDARY VOLTAGE REVENUE METERING (750V AND LESS).



NOTES:

- REFER TO BC HYDRO - REQUIREMENTS FOR SECONDARY VOLTAGE REVENUE METERING GUIDE (750V AND LESS) 5.3.1.2, 5.3.2.2, 5.4.1.2, 5.4.2.2.
- APPROVED SOCKETS, CTS130PW-BC OR CT113-L.
- BC HYDRO WILL SUPPLY THE VTs, CTs AND TEST SWITCH FOR A 347/600V, 3PH, 4W SERVICE.

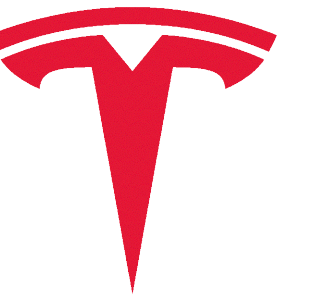
6 13 JAW BC HYDRO METER DETAIL  
E-12 NTS

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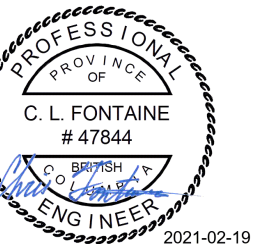
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1	ISSUED FOR COORDINATION	AUG 26, 2020

PROJECT NAME:

TESLA CACHE CREEK SUPERCHARGER INSTALLATION

PROJECT ADDRESS:

1270 STAGE ROAD  
CACHE CREEK, BC V0K 1H0

DRAWING TITLE:

SERVICE ENTRANCE SWITCHBOARD DETAILS

DATE:	AUGUST 2020
SCALE:	NTS
DRAWN BY:	SX
CHECKED BY:	CF
JOB NUMBER:	2-20-363

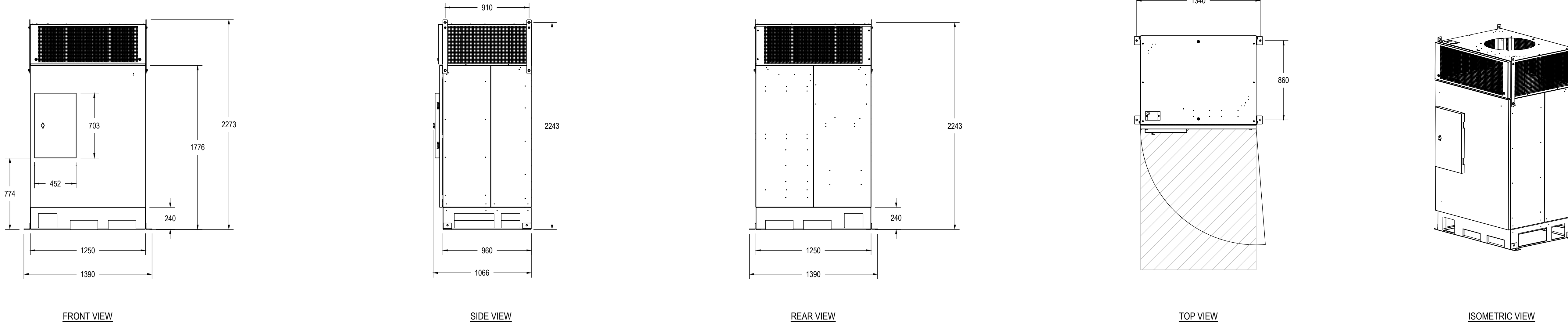
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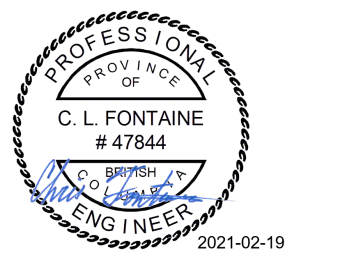


**V3 SUPERCHARGER CABINET DIMENSIONS**  
1 E-13 NTS

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ELECTRICAL ENGINEERS:



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PROJECT NAME:

**TESLA CACHE CREEK SUPERCHARGER INSTALLATION**

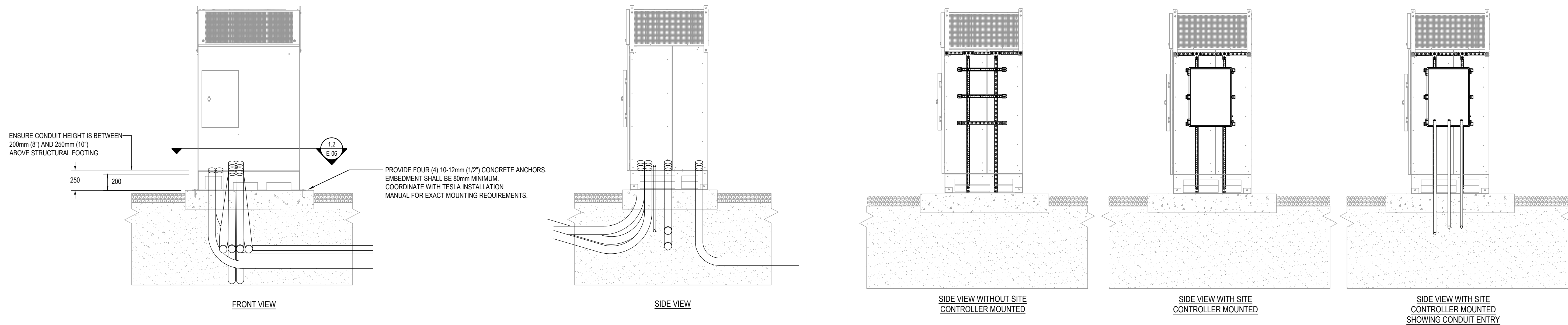
PROJECT ADDRESS:  
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DRAWING TITLE:

**TESLA V3 SUPERCHARGER CABINET DETAILS (1 OF 2)**

DATE:	AUGUST 2020
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DRAWN BY:	SX
CHECKED BY:	CF
JOB NUMBER:	2-20-363

DRAWING NUMBER:



**V3 SUPERCHARGER STAR-POINT CABINET CONDUIT ENTRY**  
2 E-13 NTS

**GENERAL NOTES:**

- A. SITE CONTROLLER MOUNTING DETAILS ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL REFER TO THE LATEST TESLA SUPERCHARGER SITE DESIGN GUIDE AND SITE CONTROLLER MOUNTING DETAILS PROVIDED BY TESLA.
- B. CONTRACTOR SHALL UTILIZE VERTICAL AND HORIZONTAL STRUTS AS SHOWN TO MOUNT TESLA V3 SUPERCHARGER SITE CONTROLLER. CONTRACTOR SHALL NOT DRILL ANY HOLES THROUGH THE SIDE OF TESLA SUPERCHARGER CABINETS.
- C. 3 X 27mm(1") RIGID PVC CONDUITS FOR THE SITE CONTROLLER SHALL STUB UP THE STRUCTURAL FOOTING AT NINETY DEGREES (90°) AND THE UTILIZE AN S-BEND TO ENSURE THE CONDUITS ALIGN AT NINETY DEGREES (90°) WITH THE KNOCKOUTS ON THE BOTTOM OF THE SITE CONTROLLER. ENSURE THE S-BENDS FOR ALL CONDUITS ARE UNIFORM.

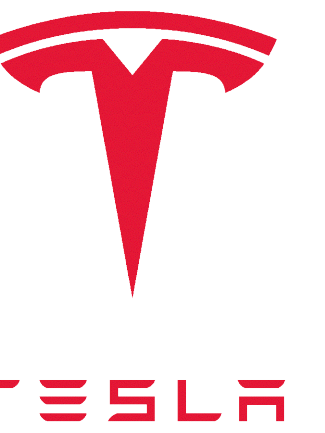
**V3 SUPERCHARGER SITE CONTROLLER MOUNTING DETAILS**  
3 E-13 NTS

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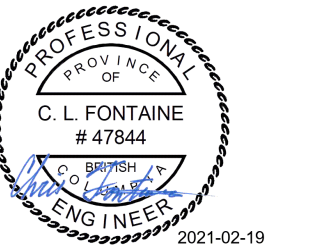
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PROJECT ADDRESS:  
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CACHE CREEK, BC V0K 1H0

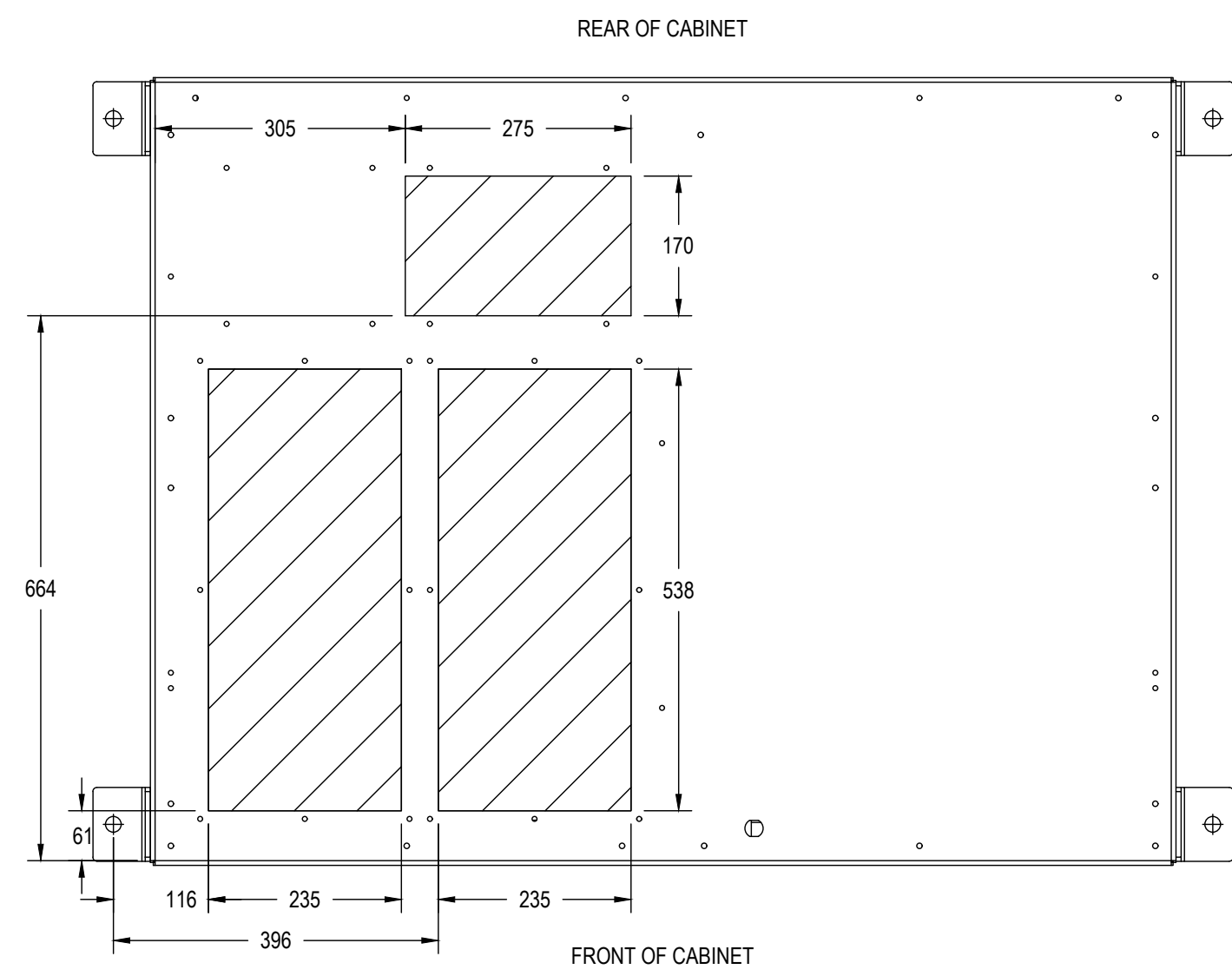
DRAWING TITLE:

**TESLA V3 SUPERCHARGER CABINET DETAILS (2 OF 2)**

DATE:	AUGUST 2020
SCALE:	NTS
DRAWN BY:	SX
CHECKED BY:	CF
JOB NUMBER:	2-20-363

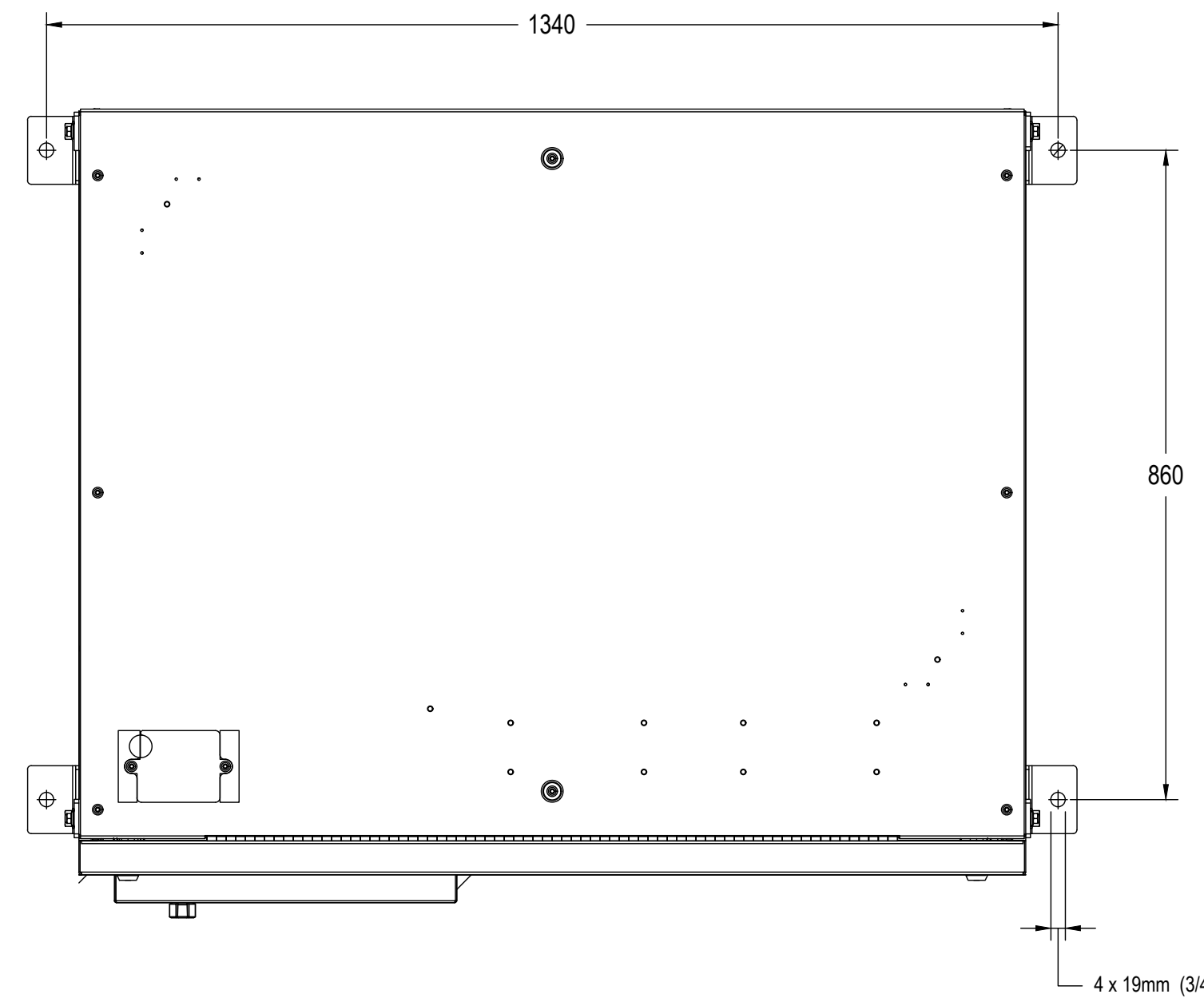
DRAWING NUMBER:

**E-14**



**1 V3 SUPERCHARGER CABINET BASE DETAIL**  
E-14 NTS

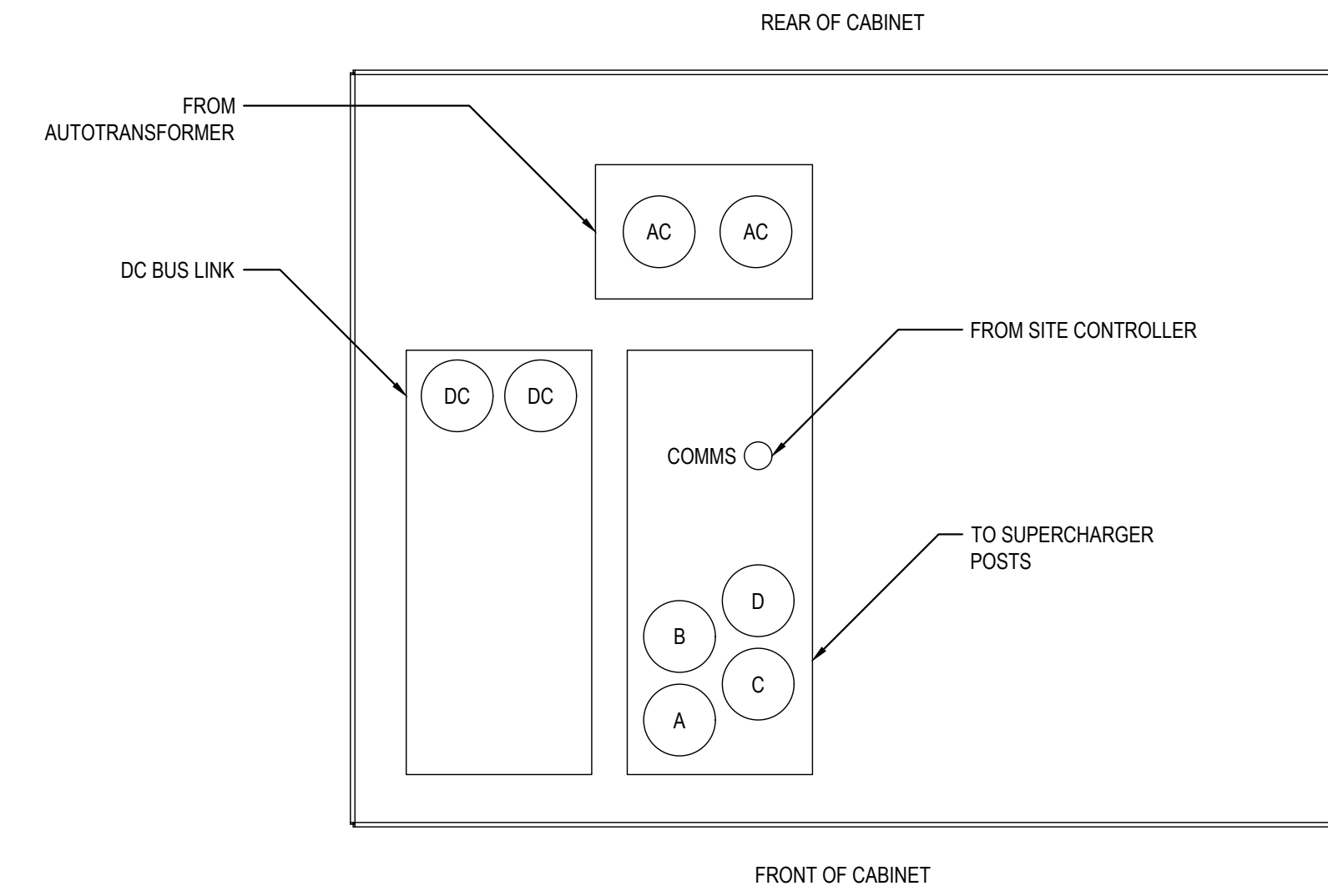
CABINET OPENINGS



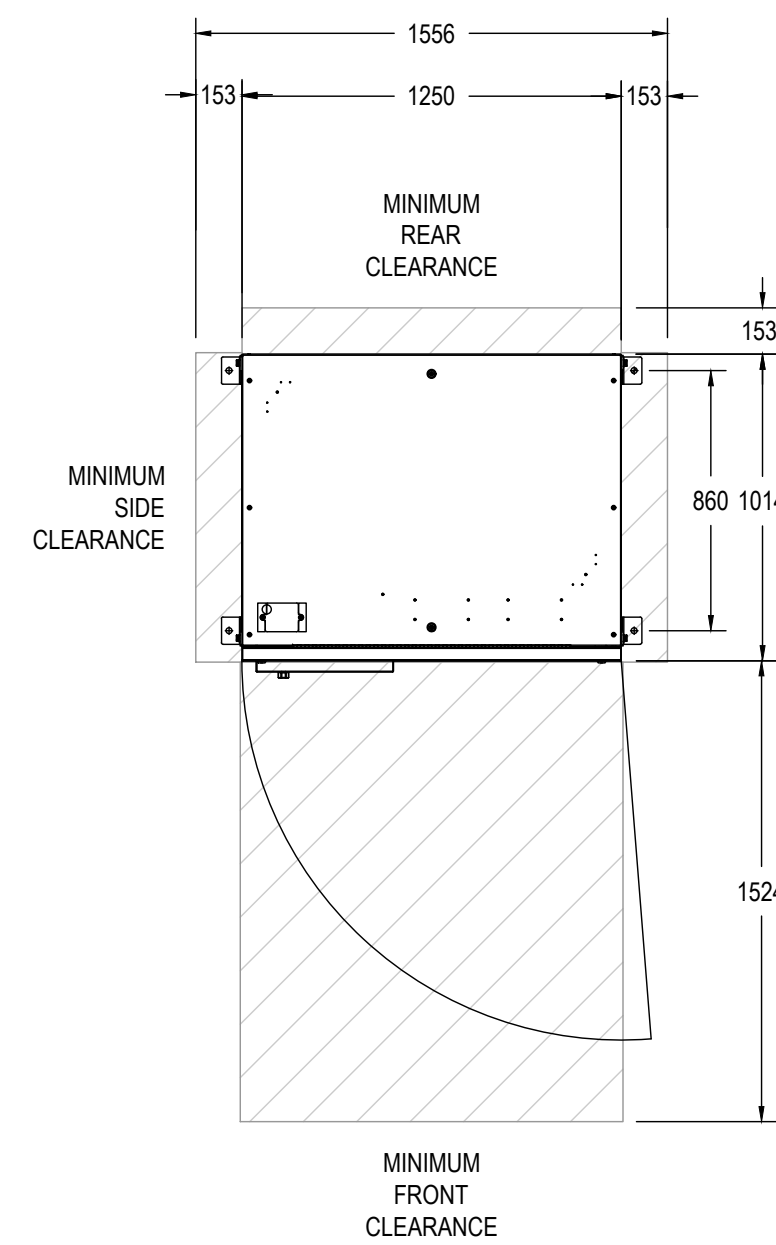
GENERAL NOTES:

- A. ANCHOR USING 5/8" DIAMETER, EMBEDDED HILTI HAS-RE500 V3 EPOXY BOLTS WITH MINIMUM BURIED DEPTH OF 5.5", OR APPROVED EQUIVALENT. REFER TO TESLA V3 SUPERCHARGER INSTALLATION MANUAL FOR FURTHER DETAILS.

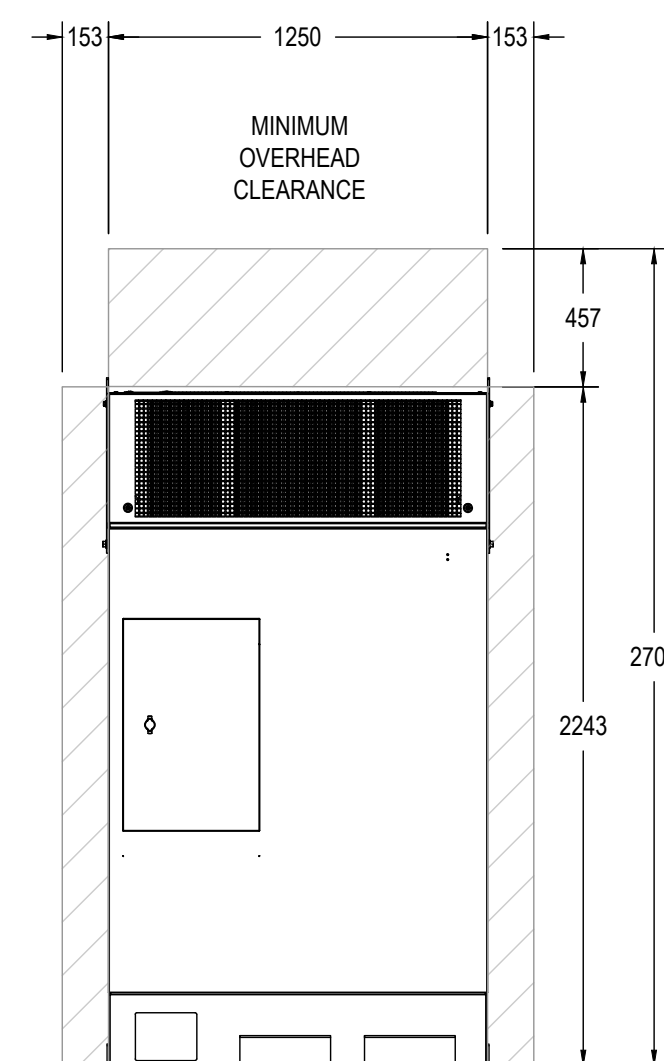
**2 V3 SUPERCHARGER CABINET ANCHOR DETAIL**  
E-14 NTS



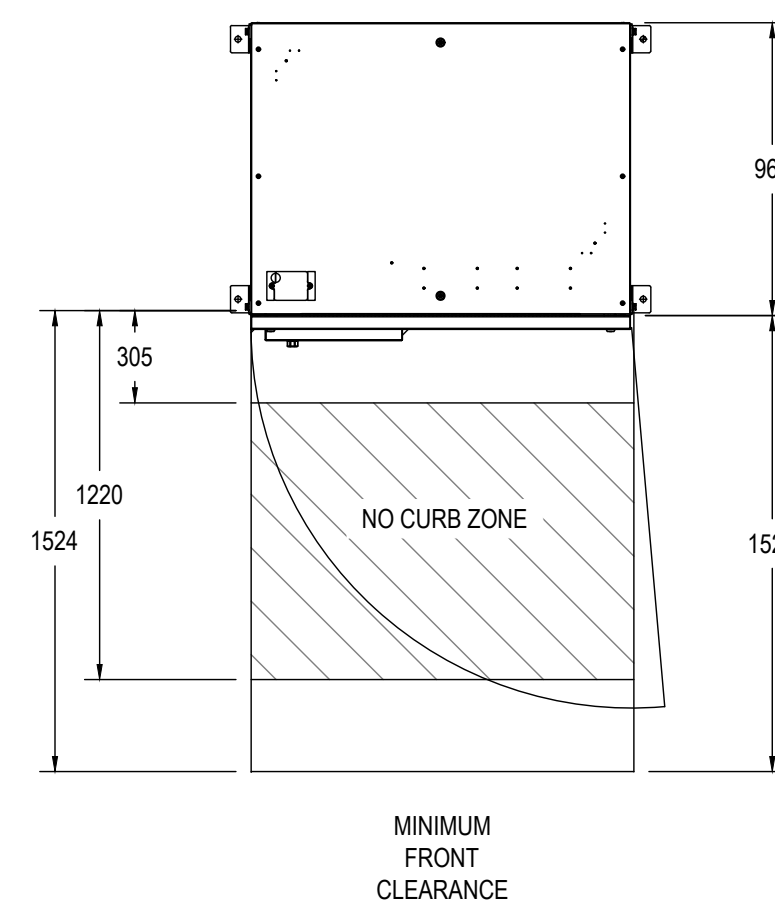
**3 V3 SUPERCHARGER CABINET CONDUIT DETAIL**  
E-14 NTS



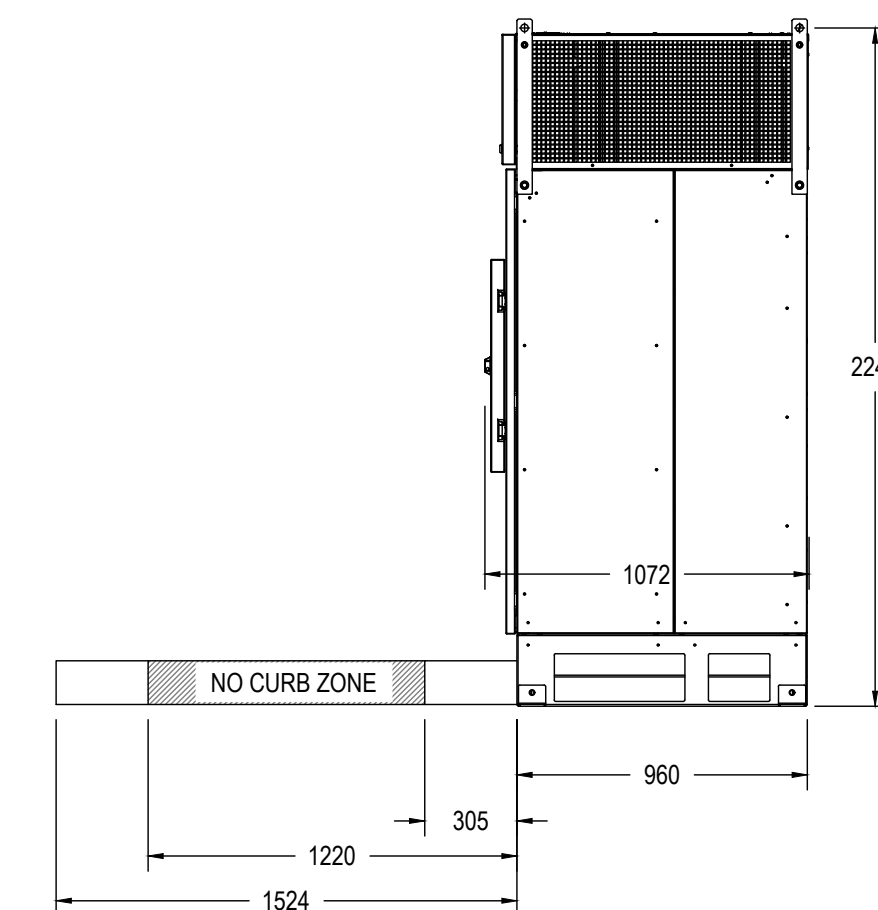
TOP VIEW



FRONT VIEW



TOP VIEW



SIDE VIEW

GENERAL NOTES:

- A. CURB FACE SHALL NOT BE LOCATED WITHIN THE NO CURB ZONE TO COMPLY WITH REGULATIONS FOR WORKER SAFETY AND SERVICEABILITY OF THE CABINET.

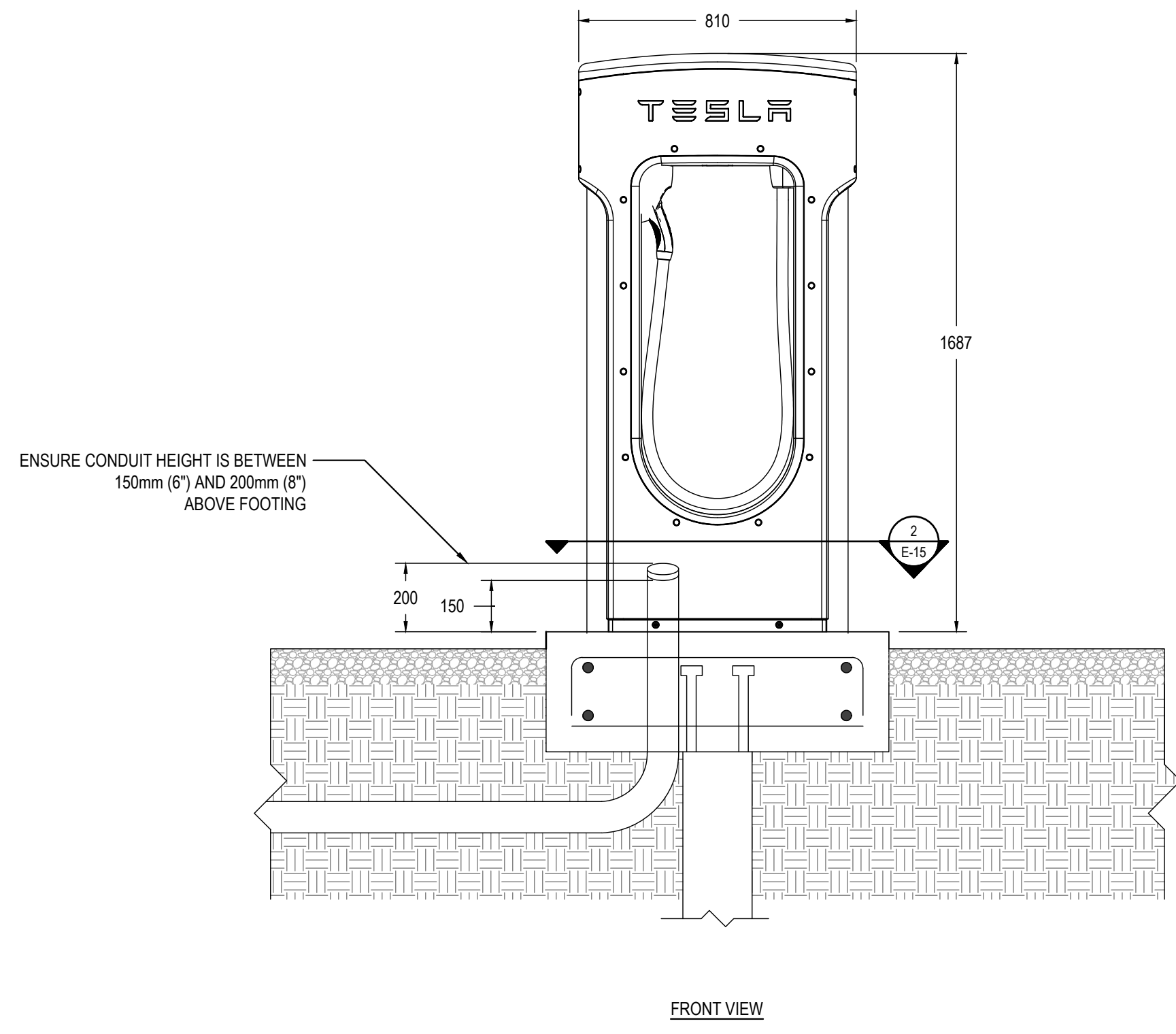
**4 V3 SUPERCHARGER CABINET CLEARANCES**  
E-14 NTS

**5 V3 SUPERCHARGER CABINET NO CURB ZONE DETAILS**  
E-14 NTS

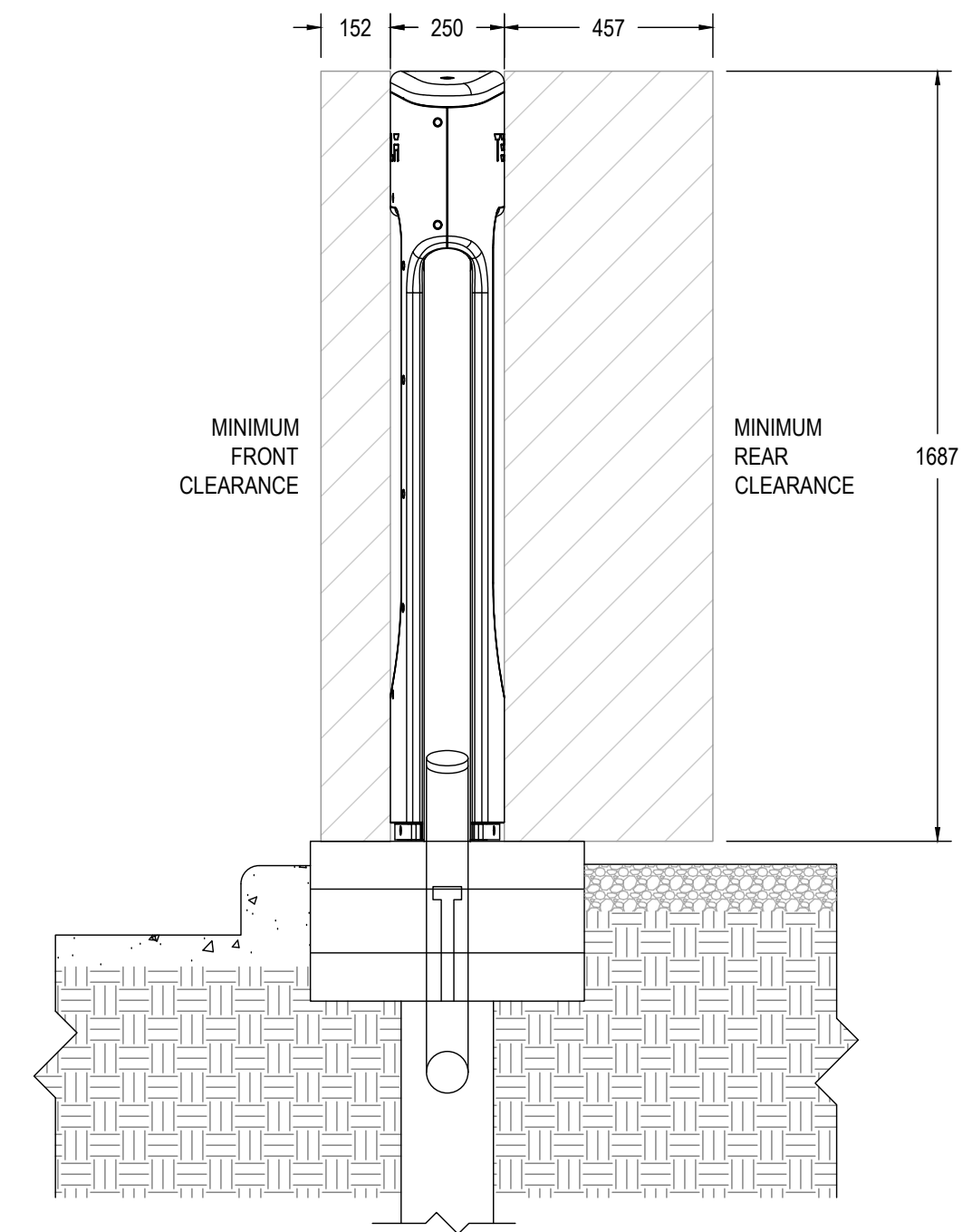
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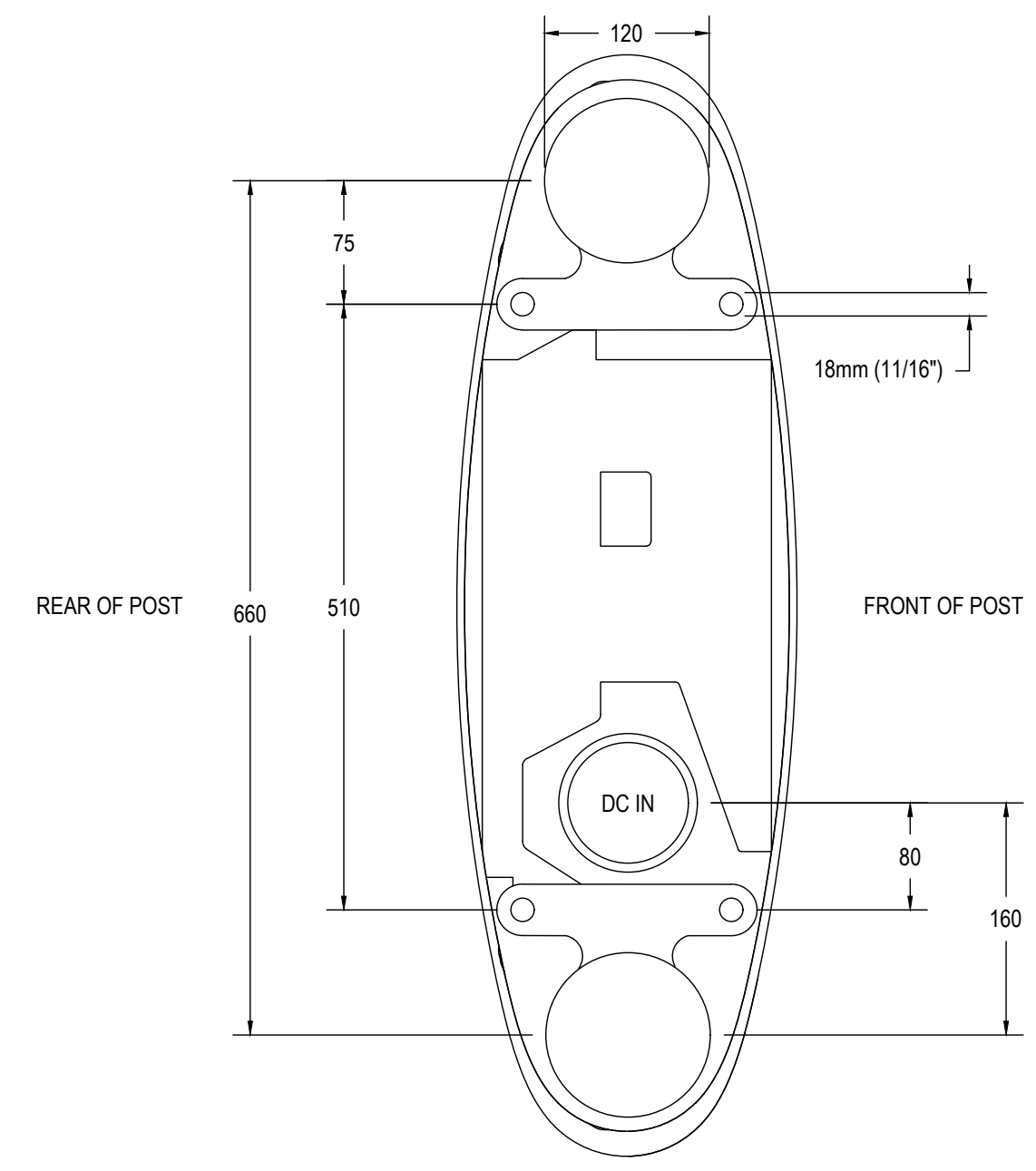
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FRONT VIEW



SIDE VIEW

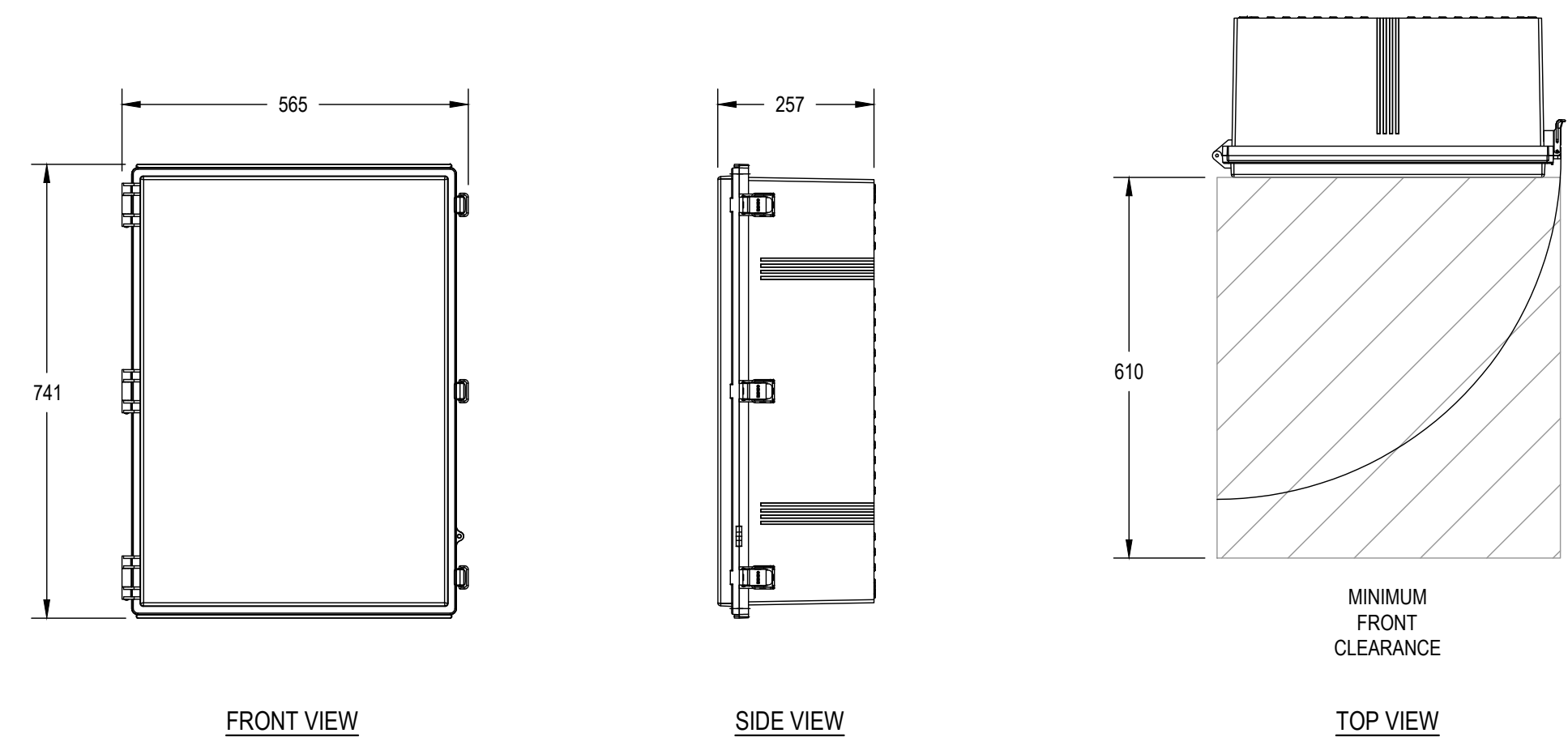


V3 CHARGEPOST BASE DETAIL

- GENERAL NOTES:**
- A. ANCHOR USING 5/8\" DIAMETER, EMBEDDED HILTI HAS-RE500 V3 EPOXY BOLTS WITH MINIMUM BURIED DEPTH OF 5.5\", OR APPROVED EQUIVALENT. REFER TO TESLA V3 SUPERCHARGER INSTALLATION MANUAL FOR FURTHER DETAILS.
  - B. MAXIMUM INCOMING CONDUIT SIZE IS 103mm (4\"). BELL ENDS ARE NOT PERMITTED.

- GENERAL NOTES:**
- A. REFER TO CHARGEPOST BASE DETAILS ON STRUCTURAL DRAWINGS.

V3 CHARGEPOST CONDUIT ENTRY DETAIL

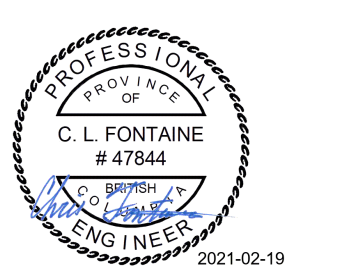


V3 SITE CONTROLLER DETAILS

CLIENT:



ELECTRICAL ENGINEERS:



REV	DESCRIPTION	DATE
7	ISSUED FOR INFORMATION	FEB 19, 2021
6	ISSUED FOR PRICING	FEB 5, 2021
5	ISSUED FOR INFORMATION	FEB 2, 2021
4	ISSUED FOR INFORMATION	JAN 28, 2021
3	ISSUED FOR INFORMATION	DEC 10, 2020
2	ISSUED FOR INFORMATION	NOV 13, 2020
1	ISSUED FOR COORDINATION	AUG 26, 2020

PROJECT NAME:

**TESLA CACHE CREEK SUPERCHARGER INSTALLATION**

PROJECT ADDRESS:

1270 STAGE ROAD  
CACHE CREEK, BC V0K 1H0

DRAWING TITLE:

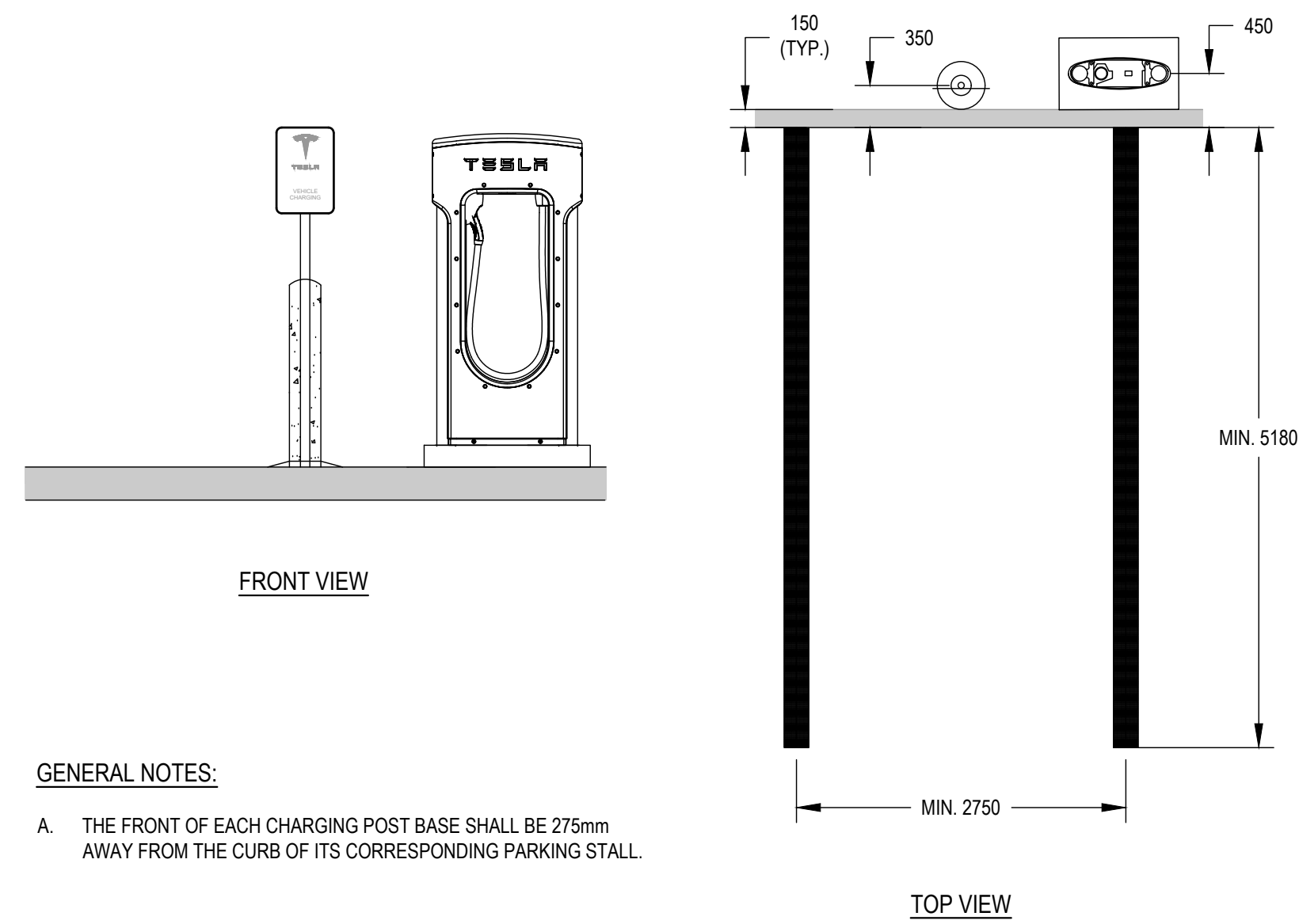
**TESLA V3 CHARGEPOST AND SITE CONTROLLER DETAILS**

DATE:	AUGUST 2020
SCALE:	NTS
DRAWN BY:	SX
CHECKED BY:	CF
JOB NUMBER:	2-20-363

DRAWING NUMBER:

**E-15**

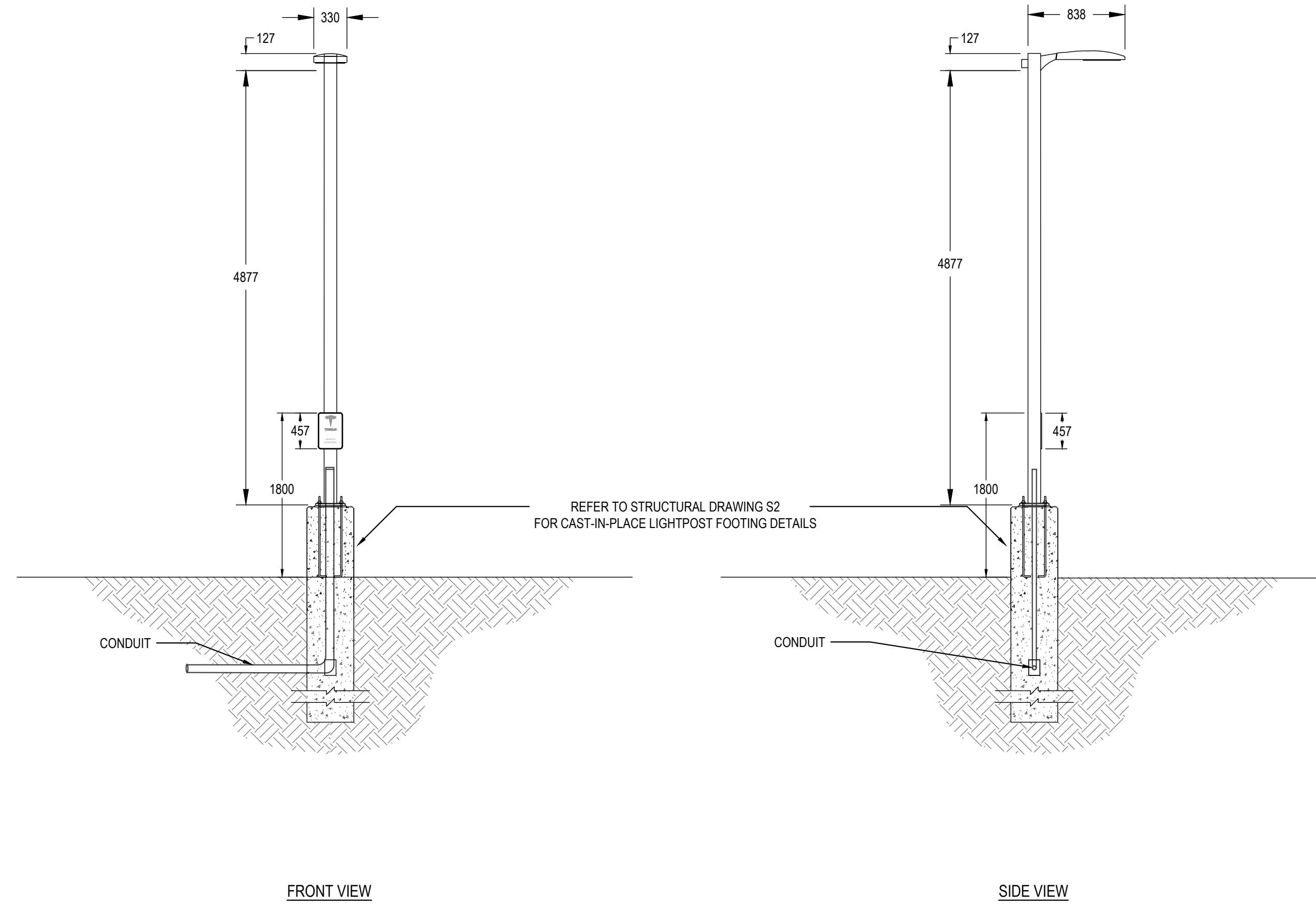




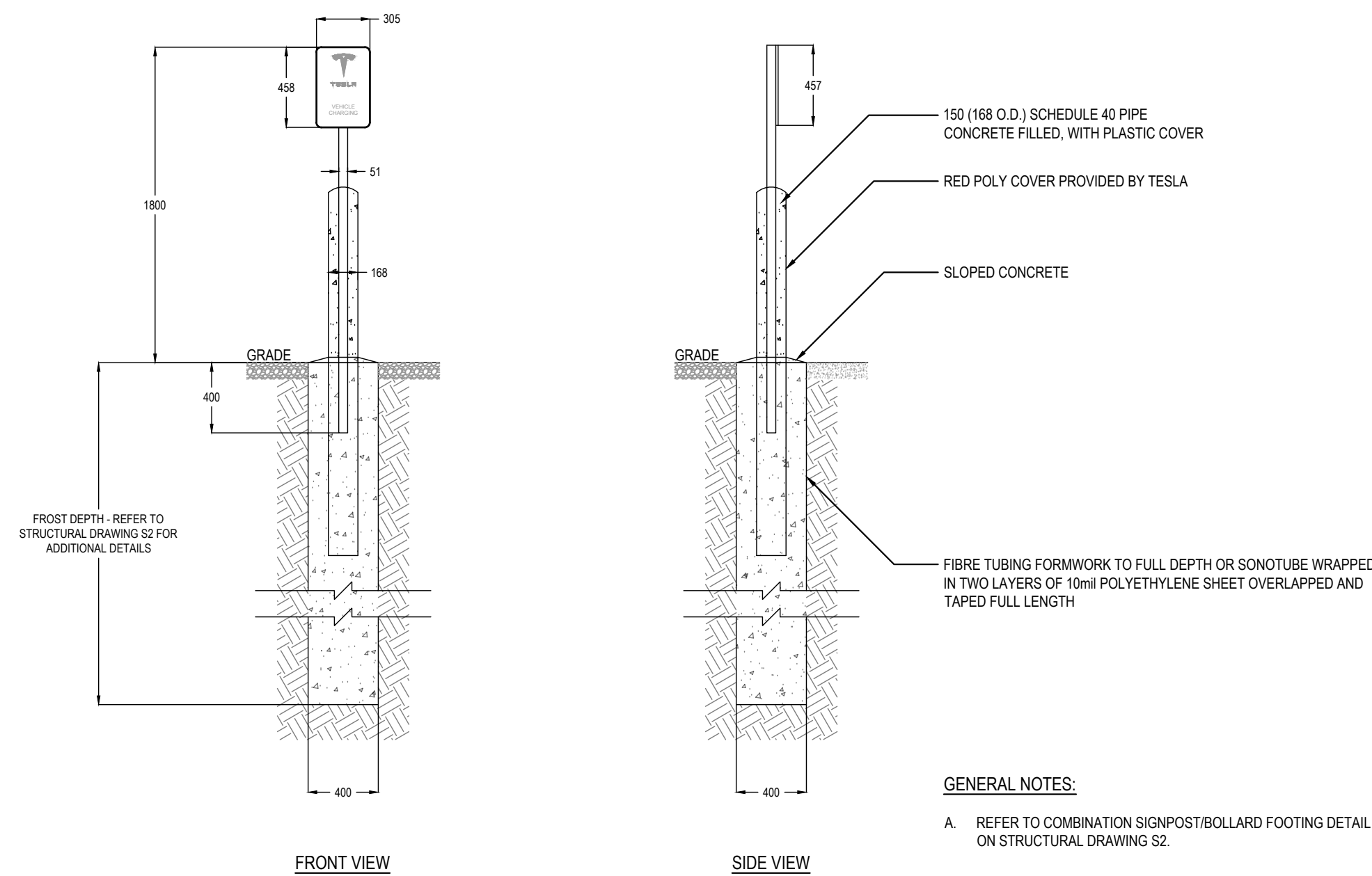
**GENERAL NOTES:**

- A. THE FRONT OF EACH CHARGING POST BASE SHALL BE 275mm AWAY FROM THE CURB OF ITS CORRESPONDING PARKING STALL.

1  
E-16  
NTS  
**TYPICAL TESLA CHARGING STALL**



3  
E-16  
NTS  
**TYPICAL TESLA LIGHTPOST DETAILS**



2  
E-16  
NTS  
**TESLA COMBINATION BOLLARD SIGNPOST**

**GENERAL NOTES:**

- A. REFER TO COMBINATION SIGNPOST/BOLLARD FOOTING DETAIL ON STRUCTURAL DRAWING S2.

TYPE	MANUFACTURER	PRODUCT	POLE	MOUNTING	LAMP				VOLTAGE
					WATTS (W)	TYPE	COLOR	QTY	
(L1)	LITHONIA	RSX1 LED P3 50K R3 347V RPA HS PE DNAXD	5RS-16-X.X	RPA DM19AS	109W	LED P3	5000K	2	347V

**LUMINAIRE NOTE:**

- 1. LUMINAIRES TO BE COMPLETE WITH INTEGRAL DAYLIGHT SENSORS.

**GENERAL NOTES:**

- A. MOUNT LUMINAIRES IN ORIENTATION INDICATED IN THIS DESIGN.
- B. ALL CONTROLS INTEGRATED WITH LUMINAIRES TO BE COMMISSIONED ON SITE AFTER INSTALL. CONTRACTOR TO ENSURE THAT ALLOWANCE IS MADE FOR ADJUSTING AND COMMISSIONING OF ALL CONTROLS AS REQUIRED.

4  
E-16  
**LUMINAIRE SCHEDULE**

Contractor must check and verify all dimensions and conditions on site and report any discrepancies to designer and/or engineer prior to proceeding with work

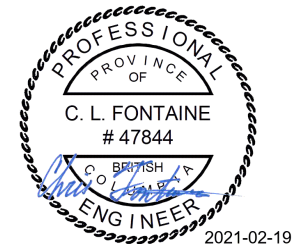
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CLIENT:



ELECTRICAL ENGINEERS:



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PROJECT NAME:

**TESLA CACHE CREEK SUPERCHARGER INSTALLATION**

PROJECT ADDRESS:

1270 STAGE ROAD  
CACHE CREEK, BC V0K 1H0

DRAWING TITLE:

**STALL, TESLA SIGNAGE, LIGHT POST DETAILS AND LUMINAIRE SCHEDULE**

DATE:	AUGUST 2020
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CHECKED BY:	CF
JOB NUMBER:	2-20-363

DRAWING NUMBER:

**E-16**

# ELECTRICAL SPECIFICATION

## 1. GENERAL

- .1 GENERAL REQUIREMENTS, INSTRUCTIONS TO BIDDERS, THIS SPECIFICATION AND ANY ADDENDA HERETO FORM PART OF THE CONTRACT DOCUMENTS AND SHALL BE READ IN CONJUNCTION WITH THEM. WORK TO INCLUDE THE FURNISHING OF ALL LABOR AND MATERIALS, UNLESS SPECIFIED OTHERWISE, TO COMPLETE AND PUT INTO OPERATING CONDITION ALL ELECTRICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN.
- .2 THE WORD "PROVIDE" SHALL MEAN "SUPPLY AND INSTALL." PRODUCTS AND SERVICES SPECIFIED "AS INDICATED" MEANS THAT THE ITEM(S) SPECIFIED ARE SHOWN ON THE DRAWINGS.
- .3 IT IS THE INTENT OF THE WORK TO PROVIDE COMPLETE, NEATLY FINISHED, AND OPERATIONAL SYSTEMS AND ANY LABOR, MATERIAL, PERMITS, LICENSES, APPROVALS AND INSPECTIONS REQUIRED FOR COMPLETION OF THE WORK, WHETHER SPECIFICALLY MENTIONED IN THE DRAWINGS OR SPECIFICATIONS OR NOT, ARE TO BE INCLUDED IN THE PRICE.
- .4 THE DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE WORKS ARE TO BE EXAMINED BEFORE SUBMITTING PRICING. ALL ELECTRICAL AND COMMUNICATIONS REQUIREMENTS INDICATED ARE TO BE INCLUDED IN THE SCOPE OF THE WORK.
- .5 PROVIDE ALL NECESSARY TEMPORARY POWER AND LIGHTING.
- .6 ALL NOISY WORK SUCH AS (BUT NOT RESTRICTED TO) WIRING AND CABLING PULLING, INSTALLATION OF CONDUIT AND MOVING LARGE EQUIPMENT SHALL BE COORDINATED WITH THE LANDLORD TO MINIMIZE DISRUPTION AND NEGATIVE IMPACTS TO OCCUPANTS.

## 2. DRAWINGS AND SPECIFICATIONS

- .1 DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY TO EACH OTHER AND WHAT IS CALLED FOR BY ONE IS TO BE BINDING AS IF CALLED FOR BY BOTH.
- .2 SHOULD ANY DISCREPANCY APPEAR BETWEEN DRAWINGS AND SPECIFICATIONS THAT LEAVES THE ELECTRICAL CONTRACTOR IN DOUBT AS TO TRUE INTENT AND MEANING, OBTAIN RULING FROM THE ENGINEER BEFORE SUBMITTING PRICING, OR ALLOW FOR THE MOST EXPENSIVE ALTERNATIVE.

## 3. UNIFORMITY OF EQUIPMENT

- .1 UNLESS OTHERWISE SPECIFIED, UNIFORMITY OF MANUFACTURE IS TO BE MAINTAINED FOR ANY PARTICULAR ITEM THROUGHOUT.

## 4. STANDARDS OF MATERIAL AND WORKMANSHIP

- .1 ALL MATERIALS ARE TO BE NEW AND OF THE QUALITY SPECIFIED, AND SHALL BE APPROVED BY CSA OR EQUIVALENT AGENCY RECOGNIZED IN BRITISH COLUMBIA.
- .2 ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER BY QUALIFIED TRADESMEN. THE ELECTRICAL CONTRACTOR SHALL KEEP A COMPETENT FOREMAN AND NECESSARY ASSISTANTS ON THE SITE DURING THE PROGRESS OF THE WORK.
- .3 ALL MATERIAL AND INSTALLATION SHALL MATCH TESLA STANDARD UNLESS IT IS NOTED OTHERWISE ON THE DRAWINGS.

## 5. RECORD PLANS & MAINTENANCE MANUALS

- .1 THE ELECTRICAL CONTRACTOR SHALL UTILIZE ONE SET OF DRAWINGS TO BE USED FOR RECORD PURPOSES. THE ELECTRICAL CONTRACTOR IS TO ACCURATELY RECORD ON THESE PRINTS ALL REVISIONS TO THE ORIGINAL PLANS THAT ARE MADE ON SITE DURING CONSTRUCTION.
- .2 THE ELECTRICAL CONTRACTOR IS TO PRODUCE AT THEIR OWN EXPENSE A SET OF RED LINE MARK-UP DRAWINGS, INCLUDING ALL CHANGES TO THE ORIGINAL PRICING DRAWINGS COVERED BY ADDENDA, CHANGE ORDERS, FIELD CHANGES, AND JOB CONDITIONS, AND TURN THESE OVER TO THE ENGINEER IN SOFT COPY FORM. COMPLETED RECORD DRAWINGS ARE TO BE CLEARLY MARKED "RECORD DRAWINGS". REFER TO LINE ITEM 3.
- .3 THIS CONTRACTOR SHALL BE RESPONSIBLE FOR TRANSFERRING RED LINE MARK-UPS TO ELECTRONIC AUTOCAD RECORD DRAWINGS. A COPY OF THE RED LINE MARK-UPS AND FINAL ELECTRONIC AUTOCAD RECORD DRAWINGS SHALL BE PROVIDED TO AES UPON PROJECT COMPLETION.
- .4 THIS CONTRACTOR SHALL PROVIDE 1 SOFT COPY OF MAINTENANCE MANUALS. MANUALS SHALL CONTAIN ALL WARRANTIES, SHOP DRAWINGS, INSPECTION LETTERS, PANEL SCHEDULES, ETC. CONTRACTOR SHALL ALSO PROVIDE 1 HARD COPY OF ALL INSPECTION AND TEST RECORDS.

## 6. SHOP DRAWINGS

- .1 TESLA IS TO SUBMIT TO THE ENGINEER, FOR REVIEW, SHOP DRAWINGS OF MAJOR ELECTRICAL EQUIPMENT. SUCH EQUIPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO DISTRIBUTION BOARDS, TRANSFORMERS AND EQUIPMENT MOUNTING DETAILS WITH DIMENSIONS.
- .2 ALL SHOP DRAWINGS ARE TO BE SUBMITTED IN SOFT COPY. SUBMIT ADDITIONAL COPIES FOR APPROVAL AS MAY BE REQUIRED.
- .3 THE ENGINEER'S REVIEW OF SHOP DRAWINGS IS TO BE FOR GENERAL DESIGN ONLY AND WILL NOT RELIEVE TESLA OR SUPPLIERS FROM RESPONSIBILITY FOR ERRORS, PROPER FITTING, CONSTRUCTION OF WORK, AND FURNISHING OF MATERIALS. REVIEW WILL NOT BE CONSTRUED AS APPROVING DEPARTURES FROM CONTRACT DOCUMENT REQUIREMENTS IF SUCH DEPARTURES ARE NOT SPECIFICALLY NOTED. TESLA IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS.

## 7. GUARANTEE WARRANTY

- .1 THE ELECTRICAL CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE WARRANTY, SIGNED BY AUTHORIZED PERSONNEL, STATING:
  - .1 THAT ALL WORK EXECUTED UNDER THIS CONTRACT WILL BE FREE FROM DEFECTS OF MATERIAL AND WORKMANSHIP FOR A PERIOD OF 1 YEAR FROM DATE OF FINAL ACCEPTANCE.
  - .2 THE ABOVE PARTIES FURTHER AGREE TO, AT THEIR OWN EXPENSE, REPAIR AND REPLACE ALL SUCH DEFECTIVE WORK, AND OTHER WORK DAMAGED THEREBY, WHICH FAILS OR BECOMES DEFECTIVE DURING THE TERM OF THE GUARANTEE WARRANTY PROVIDED THAT SUCH FAILURE IS NOT DUE TO IMPROPER USAGE.
  - .3 THE PERIOD OF THE GUARANTEE SPECIFIED WILL IN NO WAY SUPPLANT ANY OTHER GUARANTEE OF A LONGER PERIOD BUT BE BINDING ON WORK NOT OTHERWISE COVERED.

## 8. SETTING OUT OF THE WORK

- .1 THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CORRECTING ALL WORK COMPLETED CONTRARY TO THE INTENT OF DRAWINGS AND SPECIFICATIONS AND SHALL BEAR ALL COSTS INVOLVED IN MAKING THE CORRECTIONS. WHERE INTENT OF DRAWINGS AND SPECIFICATIONS IS NOT CLEAR, OBTAIN CLARIFICATION FROM THE ENGINEER BEFORE PROCEEDING WITH WORK.
- .2 THE ELECTRICAL CONTRACTOR IS TO GIVE WORK THEIR PERSONAL SUPERVISION, LAY OUT THEIR OWN WORK, DO ALL NECESSARY LEVELING AND MEASURING. FIGURES, FULL SIZE AND DETAIL DRAWINGS TO TAKE PRECEDENCE OVER SCALE MEASUREMENTS.
- .3 THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE OWNER BY IMPROPER LOCATION OR CARRYING OUT OF THEIR WORK.

## 9. EXAMINATION OF THE SITE

- .1 PRIOR TO SUBMITTING PRICING, THE ELECTRICAL CONTRACTOR SHALL CAREFULLY EXAMINE THE SITE AND ASCERTAIN ALL CONDITIONS WHICH MAY AFFECT THEIR TRADE. NO ADDITIONAL MONEY WILL BE ALLOWED FOR WORK RESULTING FROM CONDITIONS THAT SHOULD HAVE BEEN AND COULD HAVE BEEN NOTICED AND ACCOUNTED FOR DURING A THOROUGH EXAMINATION OF THE SITE.

## 10. CUTTING AND PATCHING

- .1 THE ELECTRICAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED FOR ELECTRICAL INSTALLATION.

## 11. CLEANUP

- .1 THE ELECTRICAL CONTRACTOR IS TO KEEP THE SITE FREE DURING CONSTRUCTION OF DEBRIS, BOXES, PACKING, AND OTHER MATERIALS ASSOCIATED WITH THE WORK OF THIS TRADE. ALL WASTE MATERIAL IS TO BE DISPOSED OF IN A SAFE AND ENVIRONMENTALLY RESPONSIBLE MANNER.
- .2 UPON COMPLETION OF WORK, THE ELECTRICAL INSTALLATION SHALL BE LEFT IN A CLEAN AND FINISHED CONDITION TO THE SATISFACTION OF THE ENGINEER.

## 12. CODES, PERMITS AND INSPECTION

- .1 THE ENTIRE INSTALLATION, INCLUSIVE OF MATERIAL AND LABOR, IS TO COMPLY WITH ALL THE REQUIREMENTS OF ALL BUILDING CODES AND AUTHORITIES HAVING JURISDICTION, CSA C22.1-18 (THE CANADIAN ELECTRICAL CODE, PART 1, 2018), BRITISH COLUMBIA BUILDING CODE 2018 AND REGULATIONS OF THE LOCAL INSPECTION DEPARTMENT.
- .2 THE ELECTRICAL CONTRACTOR IS TO OBTAIN ALL PERMITS REQUIRED FOR EACH STAGE OF WORK, AND AFTER COMPLETION OF THE ENTIRE INSTALLATION FURNISH TO THE ENGINEER A CERTIFICATE OF FINAL INSPECTION AND APPROVAL FROM THE ELECTRICAL INSPECTION DEPARTMENT OF THE LOCAL AUTHORITY.

## 13. TESTS

- .1 ALL PORTIONS OF ELECTRICAL WORK ARE TO BE TESTED FOR SATISFACTORY OPERATION.
- .2 BEFORE ENERGIZING ANY PORTION OF THE ELECTRICAL SYSTEM, THE ELECTRICAL CONTRACTOR SHALL PERFORM MEGGER TESTS ON ALL FEEDERS AND BRANCH CIRCUITS. ANY PROBLEMS DISCOVERED BY SUCH TESTING ARE TO BE CORRECTED BY THE ELECTRICAL CONTRACTOR AND THE CIRCUITS IN QUESTION RETESTED. THE RESULTS OF ALL FINAL TESTING SHALL BE PROVIDED TO THE ENGINEER IN REPORT FORM.
- .3 UPON PROJECT COMPLETION, AND IMMEDIATELY PRIOR TO FINAL INSPECTION AND TAKEOVER, THE ELECTRICAL CONTRACTOR SHALL CHECK THE LOAD BALANCE ON APPLICABLE FEEDERS AND PANELS. THESE CHECKS ARE TO BE CARRIED OUT BY TURNING ON ALL LOADS AND CHECKING LOAD CURRENT BALANCE. IF LOAD UNBALANCE EXCEEDS 15%, THE CIRCUITS ARE TO BE RECONFIGURED AS NECESSARY TO BALANCE THE LOADS.

## 14. PAINTING AND FINISHES

- .1 ALL ELECTRICAL FITTINGS, SUPPORTS, PULLBOXES, OUTLET BOXES, BRACKETS, AND CLAMPS ARE TO HAVE A GALVANIZED FINISH OR A PAINT FINISH OVER CORROSION-RESISTANT PRIMER.

## 15. WIRE AND CABLE

- .1 ALL WIRING IS TO BE RW90, 600V, COPPER, EXCEPT WHERE NOTED OTHERWISE.
- .2 A MINIMUM CONDUCTOR SIZE OF #12 AWG COPPER IS TO BE USED, EXCEPT WHERE NOTED OTHERWISE.
- .3 ALL CONDUCTORS ARE TO BE COLOR CODED THROUGHOUT THE INSTALLATION AS FOLLOWS:
  - EQUIPMENT GROUNDING & BONDING CONDUCTOR - GREEN
  - NEUTRAL CONDUCTOR - WHITE
  - AC PHASE WIRES - RED, BLACK, AND BLUE
  - DC (3-WIRE) - RED, BLACK, AND GRAY (OR WHITE WITH COLORED STRIPE)
- .4 CABLES USED FOR DC BUSSING BETWEEN V3 SUPERCHARGER CABINETS AND FOR DC VOLTAGE & COMMS BETWEEN V3 SUPERCHARGER CABINETS AND V3 SUPERCHARGER POSTS MUST BE RATED FOR A MINIMUM OF 1000V.

## 16. WIRING DEVICES & BOXES

- .1 ALIGN ALL DEVICES AND PLATES PLUMB AND LEVEL WITH SITE STRUCTURAL LINES.

## 17. PULL BOXES

- .1 THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL PULLBOXES AS REQUIRED TO SUIT JOB CONDITIONS. PULLBOXES SHALL CONFORM TO CSA C22.1-18 REQUIREMENTS. PULLBOXES TO BE FINISHED IN ENAMEL OVER CORROSION-RESISTANT PRIMER WITH SCREW-ON OR HINGED COVER.

## 18. SUPPORTS

- .1 ALL CONDUIT, RACEWAYS, AND OTHER ELECTRICAL EQUIPMENT SHALL BE SECURELY AND ADEQUATELY SUPPORTED, IN ACCORDANCE WITH CSA C22.1-18.

## 19. GROUNDING AND BONDING

- .1 A COMPLETE GROUNDING AND BONDING SYSTEM SHALL BE SUPPLIED AND INSTALLED IN ACCORDANCE WITH CSA C22.1-18 AND THE ELECTRICAL INSPECTION DEPARTMENT.
- .2 ALL METAL PARTS NOT CARRYING CURRENT, INCLUDING BUT NOT LIMITED TO, EQUIPMENT AND PANELBOARD ENCLOSURES, METAL RACEWAYS, PULL AND JUNCTION BOXES, SHALL BE PROPERLY BONDED TO GROUND.
- .3 A SEPARATE BONDING CONDUCTOR SHALL BE INSTALLED IN ALL RACEWAY FEEDER RUNS AND IN FLEXIBLE CONDUIT.
- .4 THIS CONTRACTOR IS RESPONSIBLE FOR THE GROUNDING AND BONDING OF ALL ELECTRICAL EQUIPMENT AND ANY CONDUIT.

## 20. DISTRIBUTION SWITCHBOARD

- .1 NEW DISTRIBUTION SWITCHBOARD AND CIRCUIT BREAKERS, AS INDICATED ON THE DRAWINGS, WILL BE PROVIDED BY TESLA. CONTRACTOR SHALL INSTALL SUPPLIED EQUIPMENT AS PER THE RECOMMENDATIONS OF THE MANUFACTURER. NEW 1200A DISTRIBUTION SWITCHBOARD SHALL BE SCHNEIDER OED-2 SWITCHBOARD. NEW CIRCUIT BREAKERS RATED 1000A OR ABOVE SHALL BE COMPLETE WITH INTEGRAL GROUND FAULT PROTECTION.

## 21. UNDERGROUND CONDUITS AND TRENCHING

- .1 ALL UNDERGROUND CONDUIT SYSTEMS ARE TO BE OF APPROVED RPVC SCHEDULE 40 CONDUIT, COMPLETE WITH INSTALLED BONDING CONDUCTOR, AND INSTALLED AT OR BELOW THE DEPTH REQUIRED BY AUTHORITIES HAVING JURISDICTION. PROVIDE 150mm CLEAN SAND BEDDING ABOVE AND 75mm BELOW CONDUITS AND CONTINUOUS MARKING TAPE 300mm BELOW GRADE. PROVIDE SUITABLE BACKFILL AND COMPACTION.
- .2 PROVIDE X-RAY/SCANNING, IF REQUIRED, FOR THE AFFECTED AREAS PRIOR TO ALL TRENCHING WORKS.

## 22. TRANSFORMERS

- .1 450kVA TRANSFORMERS SHALL BE SUPPLIED BY TESLA AND MANUFACTURED BY HAMMOND POWER SOLUTIONS.
- .2 75kVA TRANSFORMER IS TO BE SUPPLIED BY TESLA AND MANUFACTURED BY HAMMOND POWER SOLUTIONS.
- .3 TRANSFORMERS SHALL HAVE AN IMPEDANCE AS PER ANSI RECOMMENDATIONS.
- .4 ENCLOSURES TO BE AIR VENTILATED CSA TYPE 3R, HAVE A REMOVABLE METAL FRONT PANEL, AND WEATHER PROOF DESIGN.

## 23. SEISMIC PROTECTION

- .1 THE ELECTRICAL TRADE SHALL PROVIDE SEISMIC RESTRAINT AND ANCHORAGE FOR ALL EQUIPMENT AND SERVICES IN ACCORDANCE WITH BRITISH COLUMBIA BUILDING CODE 2018.
- .2 IF REQUESTED PROVIDE CERTIFIED PROFESSIONALLY SEALED SHOP AND PLACEMENT DRAWINGS WHERE APPLICABLE FOR ALL ELECTRICAL EQUIPMENT AND EQUIPMENT ASSEMBLIES SHOWING THE METHODS OF ATTACHMENT TO THE PARTICULAR STRUCTURE FOR EACH PIECE OF EQUIPMENT AND ASSEMBLY AND PROVIDE ANCHORAGE/ATTACHMENT DETAILS APPROVED AND SEALED BY A BRITISH COLUMBIA REGISTERED PROFESSIONAL ENGINEER.

## 24. IDENTIFICATION

- .1 IDENTIFY ALL MAJOR PIECES OF EQUIPMENT, INCLUDING BUT NOT LIMITED TO THE DISTRIBUTION SWITCHBOARD, TESLA V3 SUPERCHARGER CABINETS AND BREAKERS IN THE DISTRIBUTION SWITCHBOARD WITH ENGRAVED LAMACOID LABELS, WHITE LETTERING ON BLACK BACKGROUND PER TESLA SPECIFICATION.
- .2 PROVIDE LAMACOID NAMEPLATE ON THE DISTRIBUTION BOARD COVER TO IDENTIFY NAME, NUMBER OF PHASES, VOLTAGE, CURRENT RATING AND SOURCE OF FEEDER.
- .3 IDENTIFY BRANCH CIRCUIT WIRES TO MEET CSA C22.1-18 AND TESLA SPECIFICATION REQUIREMENTS.

## 25. ALTERNATES

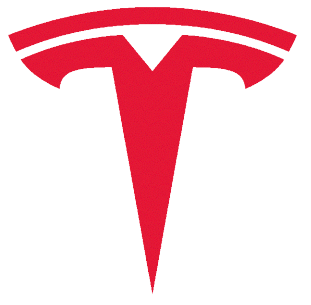
- .1 THE ELECTRICAL CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ENSURING THAT ALTERNATE PRODUCTS MEET ALL SPACE, WEIGHT, CONNECTION, POWER, WIRING, AND PERFORMANCE REQUIREMENTS.

Contractor must check and verify all dimensions and conditions on site and report any discrepancies to designer and/or engineer prior to proceeding with work

## DO NOT SCALE DRAWINGS

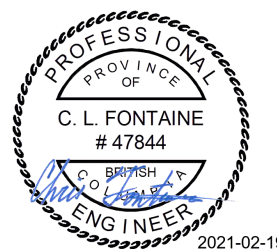
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TESLA

ELECTRICAL ENGINEERS:



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PROJECT ADDRESS:

1270 STAGE ROAD  
CACHE CREEK, BC V0K 1H0

DRAWING TITLE:

## ELECTRICAL SPECIFICATIONS

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