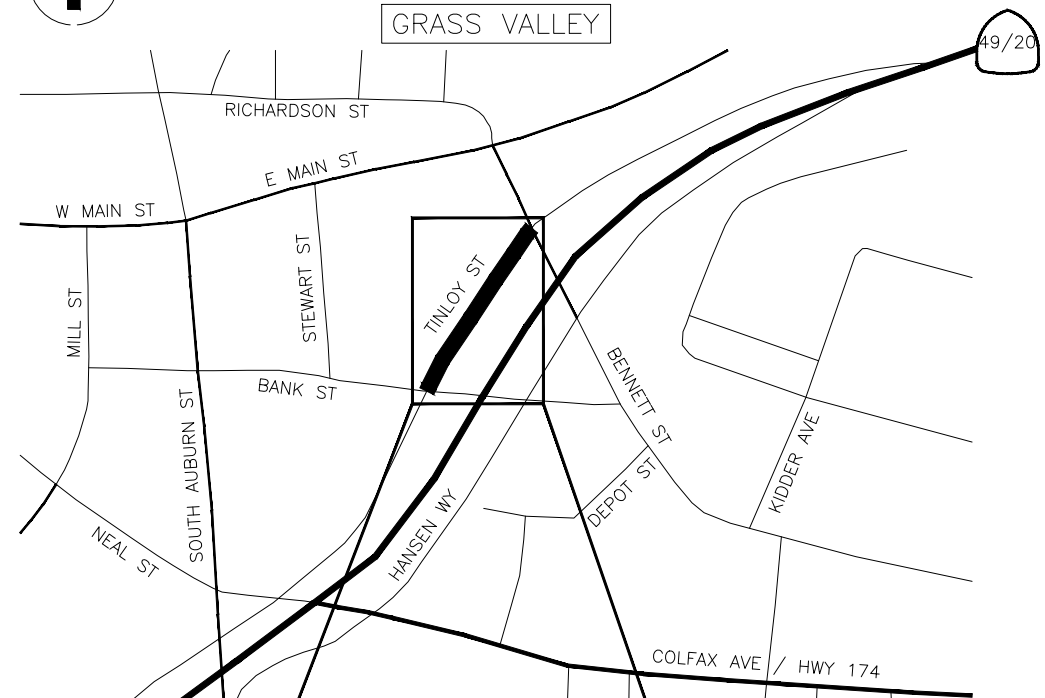
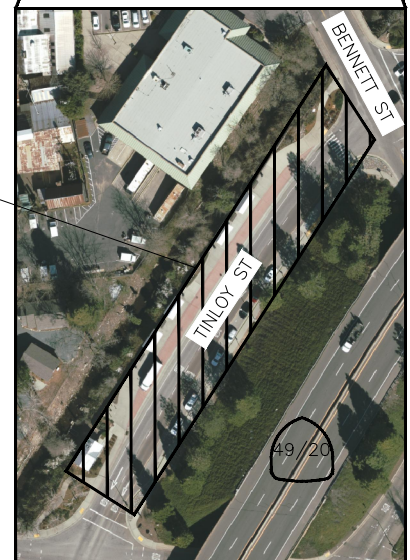


NEVADA COUNTY DEPARTMENT OF PUBLIC WORKS
 CIVIL ENGINEERING PLANS FOR THE CONSTRUCTION OF
ELECTRIC BUS CHARGING PROJECT
TINLOY STREET TRANSIT CENTER
 TINLOY STREET TRANSIT CENTER, GRASS VALLEY, CALIFORNIA
 COUNTY PROJECT NO. 889830

NOTICE TO CONTRACTOR
48 HOURS NOTICE REQUIRED PRIOR TO COMMENCING WORK
 BEFORE COMMENCING WORK, ALL REQUIRED PLANS, SCHEDULES, PROGRAMS AND OTHER SUBMITTALS MUST BE SUBMITTED AND APPROVED IN ACCORDANCE WITH THE CALTRANS STANDARD SPECIFICATIONS DATED 2024, THE CONTRACT DOCUMENTS AND SPECIAL PROVISIONS. BEFORE COMMENCING WORK THE CONTRACTOR SHALL NOTIFY THE NEVADA COUNTY DEPARTMENT OF PUBLIC WORKS 48 HOURS IN ADVANCE OF THE TIME OF COMMENCEMENT.
 A MEETING WITH CONTRACTOR/PROJECT MANAGER/COUNTY IS REQUIRED BEFORE PLACING CONDUIT



VICINITY MAP
NTS



LOCATION MAP
NTS

PROJECT CONTACTS

AGENCY	CONTACT	PHONE	EMAIL
OWNER NEVADA COUNTY CONNECTS + NEVADA COUNTY NOW	ROBIN VAN VALKENBURGH	530-470-2833	robin.vanvalkenburgh@nevadacountyca.gov
CIVIL ENGINEER/OWNER NEVADA COUNTY PUBLIC WORKS DEPT.	RICHARD POOLE (PROJECT MANAGER)	530-913-1028	richard.poole@nevadacountyca.gov
RIGHT-OF-WAY OWNER CALTRANS CALTANS ENCROACHMENT PERMIT NO.	XX XXXXXXXXX TBC	XX TBC	XX TBC
ELECTRICAL ENGINEER THE ENGINEERING ENTERPRISE	SCOTT WHEELER	530-305-4717	scott@engent.com
CHARGING EQUIPMENT VENDOR InductEV	BRADY VAN DE WIELE	267-226-8340	brady.vandewiele@inductev.com
UTILITIES CITY OF GRASS VALLEY	TRISTAN MOORE	530-798-6808	TristanM@cityofgrassvalley.com
PG&E	LEE WELLS	530-320-3908	LPW3@pge.com
CVIN	BARBARA NELSON	559-554-9100	BNelson@cvin.com
AT&T	LEE NIETO	916 505 7308	In1985@att.com

SHEET INDEX

CIVIL PLANS	
SHEET	TITLE
G1001	TITLE SHEET
G1002	ABBREVIATIONS, LEGEND
GC001	GENERAL NOTES
GC103	SITE MAP & ACCESS ROUTE
GC104	TRAFFIC CONTROL INDEX PLAN
GC105	TRAFFIC CONTROL PLAN
VF101	SURVEY SHEET
CD101	DEMOLITION PLAN
CS101	SITE PLAN
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CZ508	DETAILS
CZ509	DETAILS
CZ510	DETAILS
CZ511	DETAILS
CZ512	DETAILS
CZ520	DETAILS
CZ521	DETAILS

EXISTING TINLOY STREET TRANSIT CENTER PLANS ARE AVAILABLE UPON REQUEST

REFERENCES TO COUNTY SPECIFICATION ATTACHMENTS

ATCH	DESCRIPTION
1	ELECTRICAL SPECIFICATIONS
2	300kW FLUSH MOUNT GA DRAWING PACKAGE
3	4 SOCKET PLAN, SECTIONS, AND DETAILS
4	RAVENVOLT DOCUMENTATION
5	PG&E CONSTRUCTION SKETCH

Patrick Perkins PE 52684 Principal Civil Engineer Department of Public Works	Date
David Garcia Director of Public Works	Date
Chair Board of Supervisors	Date

ELECTRICAL PLANS	
SHEET	TITLE
G0.1	COVER SHEET
E0.01	SYMBOLS, ONE-LINE, SCHEDULES & NOTES
E1.01	SITE PLAN
E1.02	ENLARGED SITE PLANS
E2.01	DIAGRAMS

Revisions				
No.	Description	By	Date	



Electric Bus Charging Project
 Tinloy Street Transit Center
TITLE SHEET
 Nevada County – Department of Public Works



Designed:	RP SEW
Drawn:	RP
Checked:	SEW PP EL
Job No:	889830
Date:	Dec. 18, 2024

Scale Reference
0 1in

Drawing
G1001

ABBREVIATIONS

∅	DIAMETER
~	APPROXIMATELY
@	AT
AB	AGGREGATE BASE
AC	ASPHALT CONCRETE
ADA	AMERICANS WITH DISABILITIES ACT
APPROX	APPROXIMATELY
ATCH	ATTACHMENT
BFC	BOTTOM FACE OF CURB
BFG	BELOW FINISH GRADE
C	CONDUIT
CB	CIRCUIT BREAKER
CLR	CLEAR
CLSM	CONTROLLED LOW-STRENGTH MATERIAL
CMP	CORRUGATED METAL PIPE
CY	CUBIC YARD
DB	DUCT BANK
DI	DRAINAGE/DROP INLET
DPW	DEPARTMENT OF PUBLIC WORKS
DWG	DRAWING
DWGS	DRAWINGS
(E)	EXISTING
EA	EACH
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
EQUIP.	EQUIPMENT
EVCS	ELECTRIC VEHICLE CHARGING SYSTEM
EW	EACH WAY
(F)	FUTURE
FG	FINISH GRADE
F&I	FURNISH AND INSTALL
GR	GRADE
GSP	GALVANIZED STEEL PIPE
IE	INVERT ELEVATION
INFO	INFORMATION
IRR	IRRIGATION
LB	POUND
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MSB	MAIN SWITCH BOARD
(N)	NEW
NCOC	NEVADA COUNTY OPERATIONS CENTER
NO.	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PB	PULL BOX
PCC	PORTLAND CEMENT CONCRETE
PG&E	PACIFIC GAS AND ELECTRIC COMPANY
RC	RELATIVE COMPACTION
REBAR	REINFORCING BAR
RF	RADIO FREQUENCY
SMUD	SACRAMENTO MUNICIPAL UTILITY DISTRICT
SPECS	COUNTY SPECIFICATIONS
SS	SANITARY SEWER
SST	STAINLESS STEEL
SW	STORMWATER
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER

LINETYPE ABBREVIATIONS

(A)	ABANDONED IN PLACE
DB	DUCT BANK
E	ELECTRICAL
FO	FIBER OPTIC
IRR	IRRIGATION
M	MANHOLE
SS	SANITARY SEWER
SW	STORMWATER

DRAWING NUMBERING SYSTEM

DRAWINGS ARE SUBDIVIDED INTO DISCIPLINES WITH THE FOLLOWING PREFIXES:

<u>LEVEL 1 – DISCIPLINE</u>	<u>LEVEL 2 – DESIGNATOR</u>
G GENERAL	I INFORMATION
	C CONTRACTUAL
V SURVEY/MAPPING	A AERIAL
	F FIELD
C CIVIL	D DEMOLITION
	S SITE
	P PAVING
	Z DETAILS


GENERAL LEGEND

EXISTING	PROPOSED/NEW
<p>LEGEND</p> <ul style="list-style-type: none"> GARBAGE CAN BENCH INFO PLAQUE SIGN SHELTER POST BOLLARD LIGHT TRANSIT CENTER STREET LIGHT POLE MOUNTED CAMERA CALTRANS STREET LIGHT BIKE BOLLARD MANHOLE IRRIGATION BOX VALVE WATER VALVE BOX ELECTRICAL PB SIGNAL PB LIGHTING PB FIBEROPTIC PB CONTROL POINT <p> CURB CURB & GUTTER VALLEY GUTTER </p>	<p>LEGEND</p> <ul style="list-style-type: none"> ELECTRICAL DUCT BANK * DUCT BANK/ELECTRICAL JOINT TRENCH EDGE PCC CONTROL JOINT DOWELED EXPANSION JOINT <p>* DUCT BANK REFERS TO THE 12 3" C CONNECTING BETWEEN CABINETS AND CHARGING PADS</p> <p> ELECTRICAL FIBEROPTIC IRRIGATION IRRIGATION (ABANDONED IN PLACE) STORMWATER SEWER GAS FENCE RIGHT OF WAY WATER CONCRETE JOINT </p>

HATCHING LEGEND

	TO BE DEMOLISHED
	CLEARING & GRUBBING IRRIGATION EQUIPMENT ALTERATIONS
	REINSTATE (E) IRRIGATION SYSTEM RESTORE (E) LANDSCAPING
	(N) PCC – PLAN VIEW
	(E) PCC – SECTION VIEW
	(N) PCC – SECTION VIEW
	EARTH
	AB
	CEMENT SLURRY
	SAND
	ROCK SWALE/FEATURE

Revisions				
Date	By	Description	No.	




Electric Bus Charging Project
Tinloy Street Transit Center

ABBREVIATIONS, LEGEND

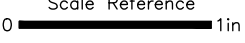
Nevada County – Department of Public Works

CIVIL ONLY



CIVIL ONLY

Designed: RP SEW
 Drawn: RP
 Checked: SEW PP EL
 Job No: 889830
 Date: Dec. 18, 2024

Scale Reference


Drawing
GI002

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
2. AT THE TIME THE CONTRACT IS AWARDED, THE CONTRACTOR SHALL POSSESS A CLASS "A" LICENSE, OR A COMBINATION OF CLASSES REQUIRED BY THE CATEGORIES AND CLASSES OF WORK INCLUDED IN THIS CONTRACT.
3. THE CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE 2024 EDITION OF THE STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AND STANDARD PLANS, INCLUDING REVISED STANDARD PLANS AND SPECIFICATIONS, AND APPLICABLE NEVADA COUNTY STANDARD DRAWINGS. IN CASE OF CONFLICT, REFER TO THE PROJECT SPECIAL PROVISIONS FOR ORDER OF PRECEDENCE.
4. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER. ANY DISCREPANCIES OR AMBIGUITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND RESOLVED IN WRITING PRIOR TO EXECUTING THE WORK.
5. THE COUNTY SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF ANY WORK BEING PERFORMED.
6. THE COST OF CORRECTIVE WORK REQUIRED FOR COMPLETION AND/OR ACCEPTANCE OF THE WORK NECESSITATED BECAUSE OF UNSATISFACTORY WORKMANSHIP OR MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIALS.
8. CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THIS REQUIREMENT SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
9. THE COUNTY MAY REQUIRE THE CONTRACTOR TO UNCOVER ANY IMPROVEMENTS THAT HAVE BEEN COMPLETED WITHOUT PROPER COUNTY INSPECTION AND/OR APPROVAL. IF THE INSTALLATION IS FOUND NOT TO MEET COUNTY STANDARDS OR PREVIOUSLY APPROVED ALTERNATIVES SHOWN ON THE PLANS, THE CONTRACTOR SHALL REMOVE AND REPLACE SUCH IMPROVEMENTS AT THE CONTRACTOR'S EXPENSE.
10. CONTRACTOR SHALL DEVELOP A WATER POLLUTION CONTROL PROGRAM AND ENSURE IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. ALL PERSONNEL SHALL BE TRAINED IN THE CONDITIONS OF THE PLAN AND SHALL BE FULLY KNOWLEDGEABLE OF THE REPORTING REQUIREMENTS AND PROCEDURES.
11. NO CONSTRUCTION SHALL BE PERFORMED WITHOUT A COUNTY APPROVED EROSION AND SEDIMENT CONTROL PLAN TO PREVENT SOIL EROSION. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH APPROPRIATE GUIDELINES, SUCH AS THE CALIFORNIA STORMWATER QUALITY ASSOCIATION (CASQA) CONSTRUCTION BMP HANDBOOK. APPLICANT AND/OR CONTRACTOR SHALL SECURE ANY NECESSARY STATE OF CALIFORNIA COVERAGE AS NEEDED UNDER THE STATE'S CONSTRUCTION GENERAL PERMIT FOR STORM WATER DISCHARGES UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES).
12. INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREVENTION OF ANY EROSION OR SILTATION ENTERING THE STORM DRAIN SYSTEM, NATURAL DRAINAGE COURSES AND/OR INTRUDING UPON ADJACENT ROADWAYS AND PROPERTIES. THIS RESPONSIBILITY SHALL APPLY THROUGHOUT THE COURSE OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS HAVE BECOME STABILIZED AND SHALL NOT BE LIMITED TO WET WEATHER PERIODS.
13. THE COST OF PROTECTION AND/OR REPAIR OF THE CONTRACTOR'S WORK AS AFFECTED BY STORM WATERS DURING INCLEMENT WEATHER SHALL BE THE CONTRACTOR'S RESPONSIBILITY UNTIL THE IMPROVEMENTS HAVE BEEN ACCEPTED BY THE OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ADJACENT PROPERTIES OR IMPROVEMENTS AS A RESULT OF NOT PROTECTING SUCH AREAS FROM STORM WATERS FLOWING OUT OF THE WORK AREA.
14. THE DATA FOR THE EXISTING UTILITIES AND IMPROVEMENTS ARE APPROXIMATE. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATIONS FOR THE EXISTING FACILITIES AND FOR THE PROTECTION AND REPAIR OF DAMAGE TO THEM CAUSED BY THE CONTRACTOR'S OPERATIONS. NEVADA COUNTY HAS MADE EVERY EFFORT TO SHOW LOCATIONS OF ANY AND ALL EXISTING SURFACE AND SUBSURFACE FACILITIES. HOWEVER, ACTUAL FIELD CONDITIONS AND LOCATIONS CAN VARY CONSIDERABLY FROM PLAN LOCATION. THEREFORE, NEVADA COUNTY CANNOT, AND DOES NOT, ASSUME RESPONSIBILITY FOR THE EXISTENCE OR LOCATION OF ANY FACILITIES SUCH AS, BUT NOT LIMITED TO, UTILITIES, PIPELINES AND SEWER. THE CONTRACTOR IS RESPONSIBLE FOR ACCURATELY LOCATING UTILITIES.
15. ANY EXISTING UTILITY STRUCTURE, INCLUDING BUT NOT LIMITED TO VALVE BOXES, SEWER AND STORM MANHOLES AND INLETS, ELECTRICAL, WATER, GAS, AND TELEPHONE BOXES AND VAULTS OCCURRING IN THE LOCATION OF


PROPOSED IMPROVEMENTS SHALL BE PROTECTED.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING EXISTING UTILITIES AS REQUIRED PRIOR TO CONSTRUCTION OF ANY UNDERGROUND WORK.
17. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY NECESSARY UTILITY RELOCATIONS.
18. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DUST CONTROL PER SECTION 10-5 OF THE CALTRANS STANDARD SPECIFICATIONS.
19. TRUCKS HAULING DIRT AND DEBRIS SHALL BE COVERED TO REDUCE WIND BLOWN DUST AND SPILLS.
20. IF ANY ARCHAEOLOGICAL ARTIFACTS, EXOTIC ROCK (NON-NATIVE), OR UNUSUAL AMOUNTS OF SHELL OR BONE ARE UNCOVERED DURING ANY ON-SITE CONSTRUCTION ACTIVITIES, ALL WORK MUST STOP IMMEDIATELY IN THE AREA. ENGINEER SHALL BE NOTIFIED, AND A QUALIFIED ARCHAEOLOGIST RETAINED TO EVALUATE THE DEPOSIT. IF THE DISCOVERY CONSISTS OF HUMAN REMAINS, ENGINEER SHALL BE NOTIFIED AND THE NEVADA COUNTY CORONER AND NATIVE AMERICAN HERITAGE COMMISSION MUST ALSO BE CONTACTED. WORK IN THE AREA MAY ONLY PROCEED AFTER AUTHORIZATION IS GRANTED BY THE COUNTY.
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AS-BUILT DRAWINGS THROUGHOUT THE COURSE OF CONSTRUCTION. SUCH DRAWINGS SHALL RECORD THE LOCATION AND DETAILS OF ALL IMPROVEMENTS CONSTRUCTED AND SHALL BE SUBMITTED TO THE CONSTRUCTION INSPECTOR PRIOR TO, AND IN CONSIDERATION OF THE OWNER'S ACCEPTANCE OF THE WORK.
22. THE CONTRACTOR SHALL ACCURATELY RECORD ALL LOCATIONS AND ELEVATIONS OF ALL ANGLE POINTS AND FITTINGS OF NEW UTILITIES, AND ABANDONED LINES.
23. THE CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO EXCAVATION OF ANY TRENCH OVER FIVE FEET IN DEPTH.
24. PRIOR TO THE CONCLUSION OF THE WORK, THE CONTRACTOR SHALL REPAIR OR REPLACE IN KIND ALL DAMAGED PROPERTY FOR WHICH HE IS RESPONSIBLE (INCLUDING UTILITIES, DRAINAGE, CULVERTS, FENCING, CURB, GUTTER AND SIDEWALK). THE WORK SITE AND ADJACENT AREAS SHALL BE CLEANED UP. THIS REPAIR AND REPLACEMENT, AND CLEAN UP WORK SHALL BE SUBJECT TO THE APPROVAL AND ACCEPTANCE OF THE OWNER.
25. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FURNISHING, INSTALLING AND MAINTAINING ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC AND THE WORK AND FOR PROVIDING PROPER AND SAFE ROUTING OF THE VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO WORKING HOURS. THE USE OF FLAGGERS, BARRICADES AND CONSTRUCTION SIGNING SHALL COMPLY WITH THE CURRENT EDITION OF WORK AREA AND TRAFFIC CONTROL HANDBOOK (W.A.T.C.H.) AND THE CALIFORNIA MUTCD.
26. PUBLIC SAFETY AND TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH COUNTY AND CALTRANS ENCROACHMENT PERMIT REQUIREMENTS. SAFE VEHICULAR AND PEDESTRIAN ACCESS SHALL BE PROVIDED AT ALL TIMES DURING CONSTRUCTION.
27. THE DEPARTMENT OF PUBLIC WORKS (DPW) SHALL HAVE FIRST RIGHT OF REFUSAL FOR AC GRINDINGS AND/OR REUSABLE AB MATERIAL THAT IS REMOVED. CONTRACTOR SHALL NOTIFY DPW ROAD MAINTENANCE DIVISION AT LEAST 24 HOURS PRIOR TO BEGINNING WORK TO DETERMINE IF DPW INTENDS TO RETAIN AC GRINDINGS AND/OR REUSABLE AB MATERIAL. IF DPW OPTS TO RETAIN ANY MATERIAL THEY WILL PROVIDE THE CONTRACTOR WITH A LOCAL SITE FOR THE CONTRACTOR TO DEPOSIT, AT CONTRACTOR'S EXPENSE, THE REUSABLE MATERIALS FOR THE BENEFIT OF DPW. IF DPW OPTS TO NOT RETAIN ANY MATERIAL THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FINAL MATERIAL DISPOSAL.
28. THE CONTRACTOR MUST PROVIDE TEMPORARY TRAFFIC STRIPING IF EXISTING DELINEATIONS ARE DESTROYED DURING TRENCHING OR OTHER WORK. PAINTED MARKINGS OR STRIPING TAPE MAY BE USED. THE TEMPORARY STRIPING MUST BE APPROVED FOR MATERIAL AND LAYOUT BY THE COUNTY BEFORE TRENCHING OR OTHER WORK IS STARTED. THE CONTRACTOR, AT ITS EXPENSE, SHALL SANDBLAST ALL TEMPORARY PAINTED MARKINGS THAT ARE TO BE REMOVED.
29. CONTRACTOR SHALL PROVIDE ALL TEMPORARY UTILITIES NECESSARY TO INSTALL, TEST AND COMMISSION THE EQUIPMENT PRIOR TO OWNER ACCEPTANCE.
30. ALL TRAFFIC STRIPES, ARROWS, AND PAVEMENT MARKINGS SHALL BE REPLACED IN-KIND WITH LIKE MATERIALS (PAINT OR THERMOPLASTIC) TO THE SPECIFICATIONS SET FORTH IN CHAPTER 3 OF THE CALIFORNIA MUTCD LATEST EDITION.
31. THE CONTRACTOR IS RESPONSIBLE FOR PRESERVATION AND PROTECTION OF EXISTING SURVEY AND PROPERTY CORNER MONUMENTS THAT EXIST AT THE TIME OF CONSTRUCTION IN THE AREA WHERE CONSTRUCTION ACTIVITIES OCCUR. MONUMENTS DISTURBED, OR LOST, DUE TO CONSTRUCTION ACTIVITIES WILL

REQUIRE THAT THE CONTRACTOR HAVE THEM REPLACED, IN KIND, BY A LICENSED CALIFORNIA LAND SURVEYOR, WHO WILL BE REQUIRED TO FILE WITH THE COUNTY EITHER A CORNER RECORD OR A RECORD OF SURVEY, WHICHEVER WILL MEET THE REQUIREMENTS OF THE LAND SURVEYOR'S ACT, SECTION 8771(B) AND (C).

32. CONTRACTOR SHALL COMPLY WITH BUSINESS AND PROFESSIONS CODE SECTION 8771(B) REGARDING REFERENCING, PRESERVING AND RECONSTRUCTING MONUMENTS, WHETHER OR NOT MONUMENTS ARE SHOWN IN THESE PLANS.
33. CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES AND SHALL RESTORE ANY DAMAGED FACILITIES TO EXISTING CONDITION.
34. CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING/REINSTATING THE EXISTING IRRIGATION SYSTEM IF THIS IS NEEDED IN ORDER TO ACCOMPLISH THE WORK. THE REINSTATED IRRIGATION SYSTEM SHALL BE COMPLETED AND TESTED BY THE CONTRACTOR AND SHALL BE SUBJECT TO THE APPROVAL AND ACCEPTANCE OF THE OWNER.
35. THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR JOB SITE SECURITY OF THEIR VEHICLES, EQUIPMENT, TOOLS, MATERIALS, PERSONAL BELONGINGS, ETC. THE OWNER OR ITS AGENT SHALL NOT BE RESPONSIBLE FOR LOSS OR DAMAGE TO THESE ITEMS OR ANY OTHER ITEMS OWNED BY CONTRACTOR, EMPLOYEES OR SUBCONTRACTORS.
36. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONSTRUCTION SURVEYING AND STAKING THAT MAY BE REQUIRED FOR CONSTRUCTION ACTIVITIES, INCLUDING, BUT NOT LIMITED TO, SETTING ANY ELEVATIONS AS REQUIRED.
37. THE EXISTING SURVEYED FACILITIES AND TOPOGRAPHY SHOWN ON THESE PLANS IS BASED ON FIELD AND AERIAL SURVEYING FROM NELSON ENGINEERING IN AUGUST 2023. ALL DISCREPANCIES OR CLARIFICATIONS REGARDING SURVEY DATA PROVIDED SHALL BE REQUESTED BY CONTRACTOR AND RESOLVED BY ENGINEER IN WRITING PRIOR TO COMMENCING SITE WORK.
38. CONTRACTOR SHALL LIMIT STORAGE AND STAGING TO AREA INDICATED ON PLANS. STORAGE OR STAGING WITHIN OTHER AREAS AS NECESSARY OUTSIDE THE PROJECT AREA SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ARRANGE, COORDINATE AND PROVIDE.

Revisions				
No.	Description	By	Date	




Electric Bus Charging Project
Tinloy Street Transit Center

GENERAL NOTES

Nevada County – Department of Public Works

CIVIL ONLY

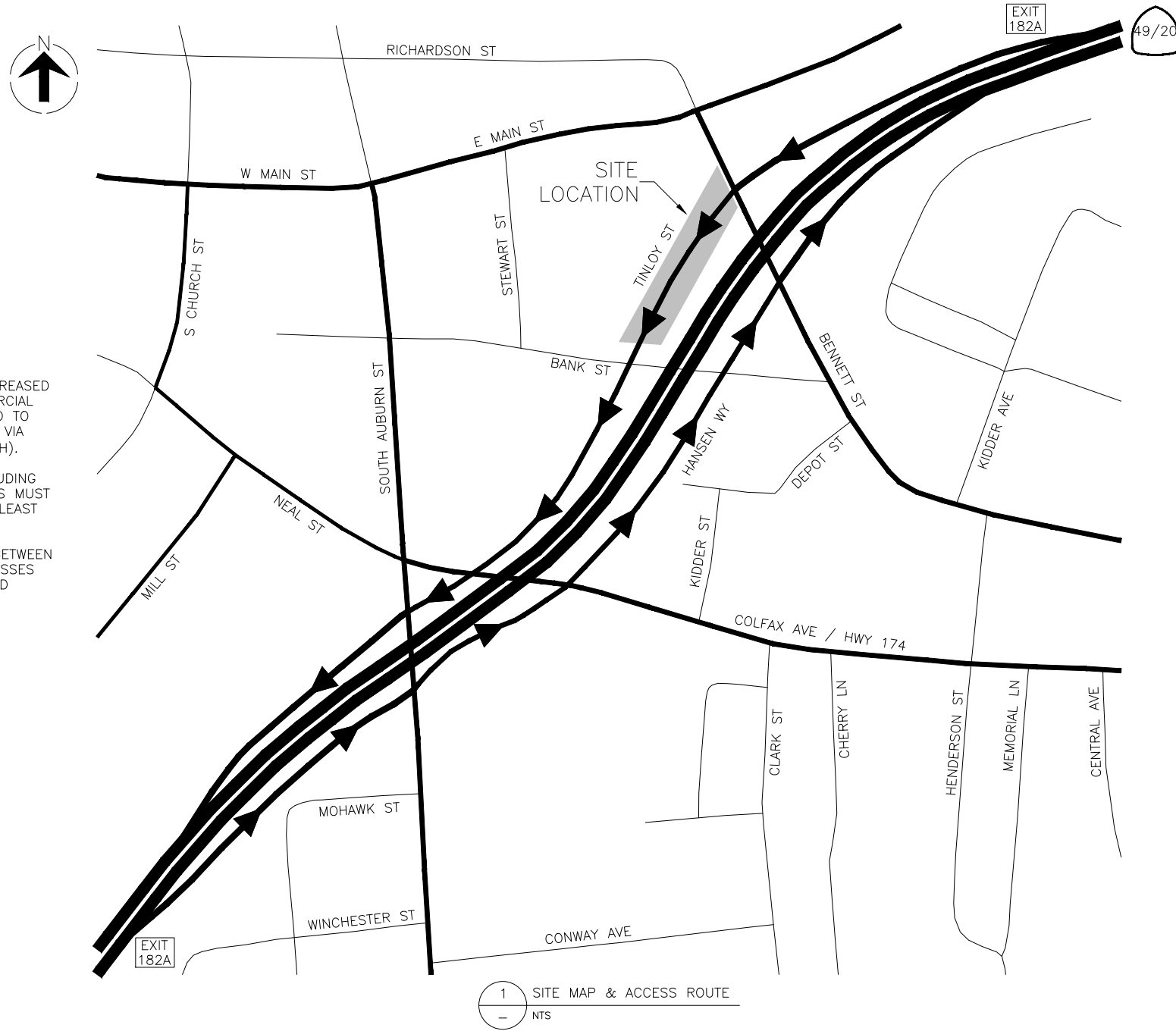


CIVIL ONLY

Designed: RP SEW
 Drawn: RP
 Checked: SEW PP EL
 Job No: 889830
 Date: Dec. 18, 2024

Scale Reference
 0 ————— 1in

Drawing
GC001



LEGEND
 ONE WAY STREET TO BE USED FOR CONSTRUCTION TRAFFIC ACCESS

- NOTE**
 CONSTRUCTION TRAFFIC ROUTING:
1. TO AVOID DAMAGE TO CITY STREETS AND/OR INCREASED CONGESTION, ALL HEAVY EQUIPMENT AND COMMERCIAL TRUCK CONSTRUCTION TRAFFIC SHALL BE ROUTED TO AND FROM THE SITE BY THE MOST DIRECT PATH VIA HWY 49/20 USING EXIT 182A (NORTH AND SOUTH).
 2. REQUESTS FOR ALTERNATE ACCESS ROUTES INCLUDING BUT NOT LIMITED TO LIGHT DUTY VEHICLE ACCESS MUST BE SUBMITTED TO THE ENGINEER IN WRITING AT LEAST 72 HOURS IN ADVANCE OF PROPOSED USE.
 3. INTERCONNECTING STREETS AND INTERSECTIONS BETWEEN THE ALLOWED TINLOY ST. AND HANSEN WY. ACCESSES ARE ALSO ALLOWED ROUTES FOR LEGALLY LOADED CONSTRUCTION TRAFFIC.

1 SITE MAP & ACCESS ROUTE
 - NTS

Revisions				
No.	Description	By	Date	



Electric Bus Charging Project
 Tinloy Street Transit Center
SITE MAP & ACCESS ROUTE
 Nevada County – Department of Public Works



Designed: RP SEW
 Drawn: RP
 Checked: SEW PP EL
 Job No: 889830
 Date: Dec. 18, 2024

Scale Reference
 0 1in

Drawing
 GC103



2
GC105

1
GC105



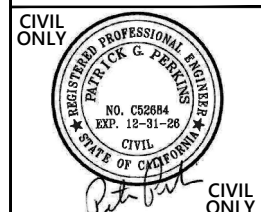
1 TRAFFIC CONTROL INDEX PLAN
- 1" = 100'

Revisions			
No.	Description	By	Date



Electric Bus Charging Project
Tinloy Street Transit Center
TRAFFIC CONTROL INDEX PLAN

Nevada County – Department of Public Works








Designed: RP SEW
 Drawn: RP
 Checked: SEW PP EL
 Job No: 889830
 Date: Dec. 18, 2024

Scale Reference
0 1in

Drawing
GC104

LEGEND

-  SIGN
-  TYPE 2 BARRICADE
-  K-RAIL
-  TRAFFIC CONE
-  PARKING AREA

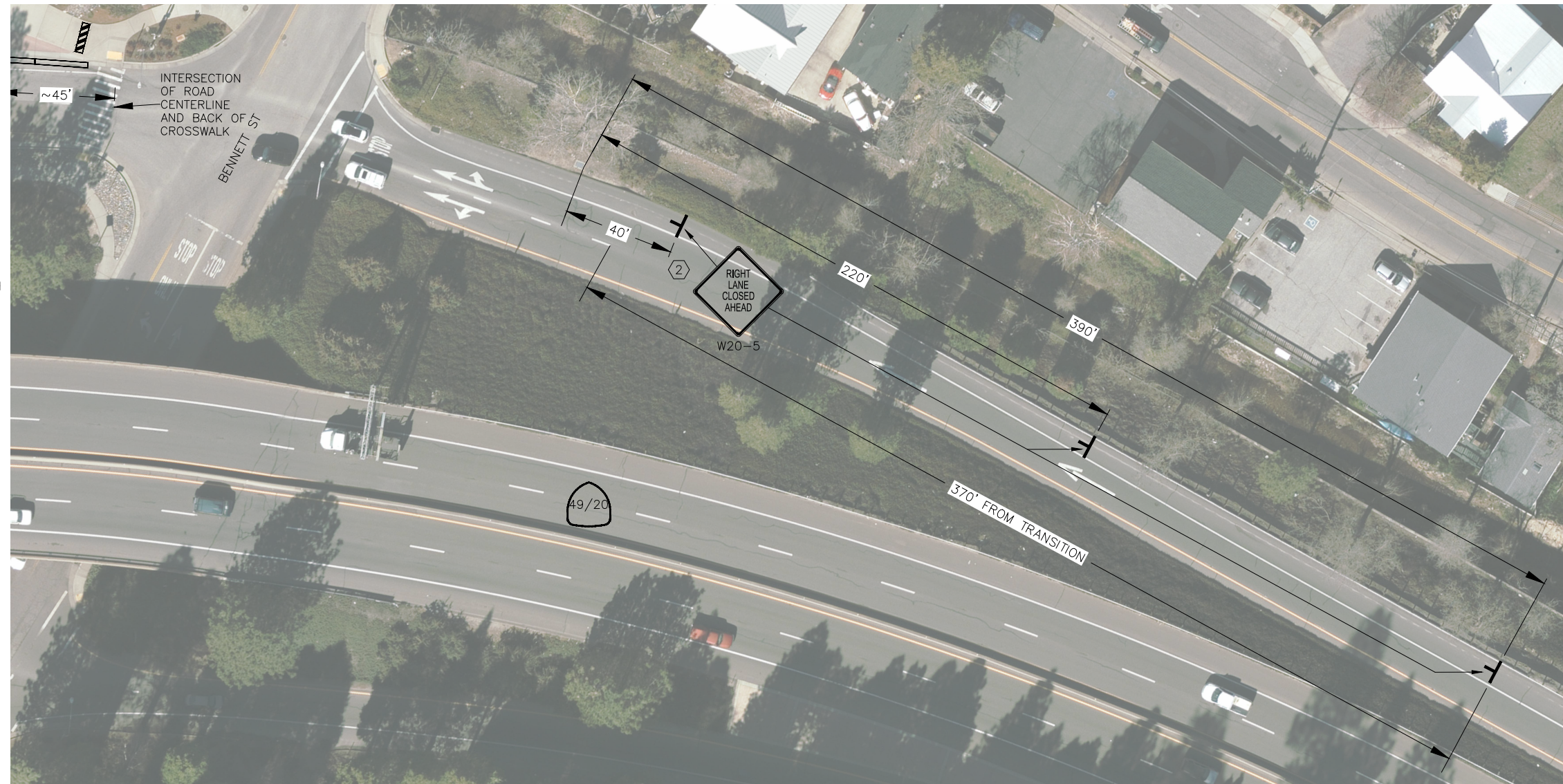
NOTES

1. TINLOY ST. POSTED SPEED LIMIT IS 30 MPH

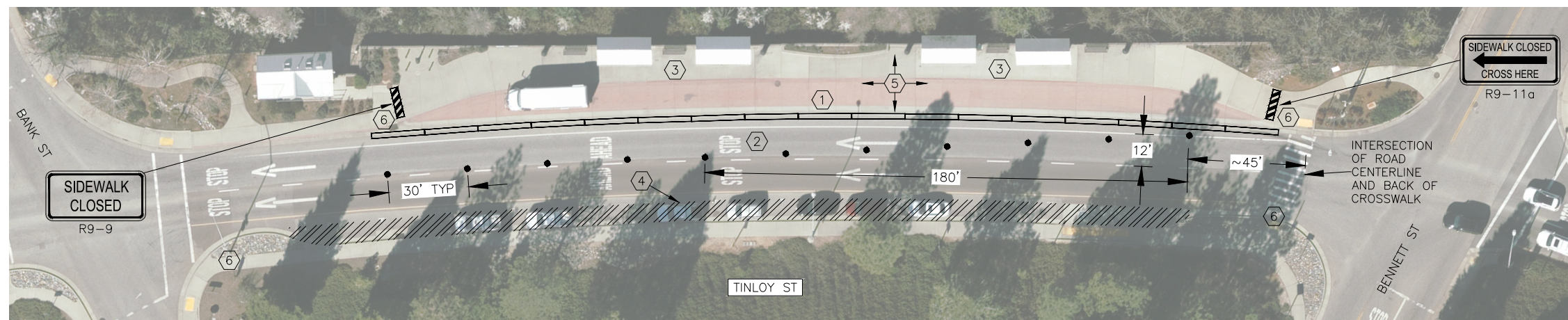
SHEET NOTES

- 1 WITHIN CONTINUOUS RUN OF K-RAIL PROVIDE MOVEABLE K-RAIL FOR ACCESS.

ALLOW SPACES BETWEEN SECTIONS OF K-RAIL TO ALLOW STREET TO DRAIN TO VALLEY GUTTER.
- 2 NORMAL OPERATIONS SHALL BE CONDUCTED BEHIND K-RAIL. WHEN OCCASIONAL TEMPORARY LANE CLOSURE IS NEEDED, PROVIDE SIGNAGE AND TRAFFIC CONES AS SHOWN.
- 3 COUNTY WILL MAKE ARRANGEMENTS FOR TEMPORARY BUS STOPS ON TINLOY ST BETWEEN BANK ST AND NEAL ST. STAGING/STORAGE IS NOT PERMITTED IN THIS AREA.
- 4 THIS AREA CAN BE USED FOR PARKING OF CONTRACTOR ON-HIGHWAY VEHICLES BUT NOT FOR MATERIAL OR EQUIPMENT STORAGE.
- 5 ON SITE STORAGE/STAGING SHALL BE LIMITED TO THE AREA ENCLOSED BY THE K-RAIL AND BARRICADES
- 6 PROVIDE SIGNAGE INDICATING LOCATION OF AND DIRECTION TO TEMPORARY BUS STOPS ON TINLOY ST BETWEEN BANK ST AND NEAL ST. ATTACH TO BARRICADES AND (E) SIGN POST / LIGHT POLE. PROVIDE DRAFT OF SIGN FOR ENGINEER APPROVAL.




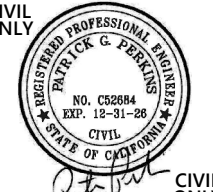
1 TRAFFIC CONTROL PLAN (NORTH)
- 1" = 50'



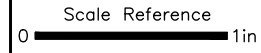
2 TRAFFIC CONTROL PLAN (SOUTH)
- 1" = 50'

Revisions	
No.	Date

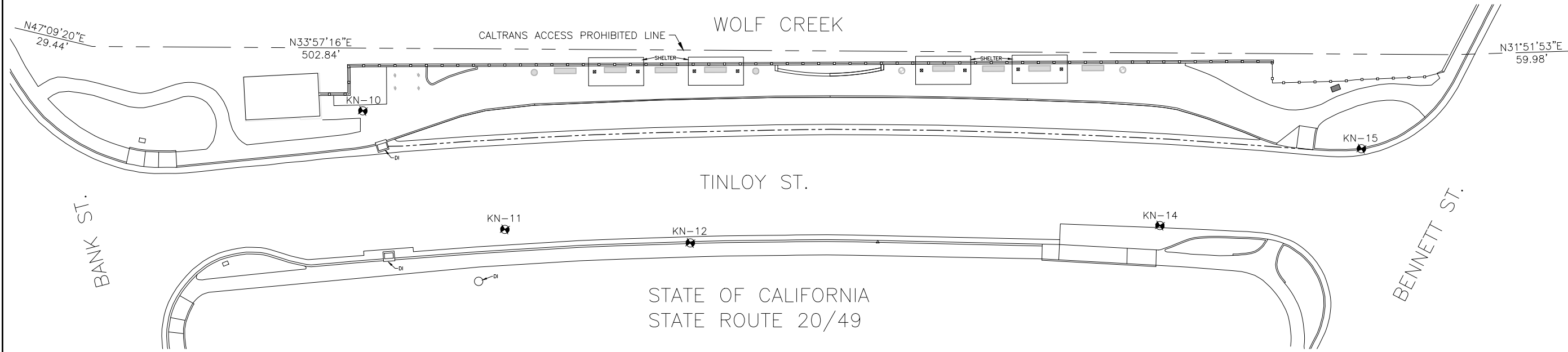

 Electric Bus Charging Project
 Tinloy Street Transit Center
TRAFFIC CONTROL PLAN
 Nevada County – Department of Public Works

CIVIL ONLY

 CIVIL ONLY

Designed:	RP SEW
Drawn:	RP
Checked:	SEW PP EL
Job No:	889830
Date:	Dec. 18, 2024



Drawing
GC105




1 SURVEY SHEET
- 1" = 40'



SHEET LEGEND

⊕ CONTROL POINT

NO.	SURVEY CONTROL			COMMENTS
	NORTHING	EASTING	ELEVATION	
KN-10	2206858.8910'	6828047.0030'	2402.97'	NAIL SET IN SIDEWALK
KN-11	2206878.3450'	6828112.5760'	2403.05'	NAIL SET IN PAVEMENT
KN-12	2206932.6660'	6828154.6830'	2404.42'	NAIL SET ON TOP OF CURB
KN-14	2207080.7770'	6828245.4290'	2407.58'	NAIL SET IN PAVEMENT
KN-15	2207158.5370'	6828262.9720'	2408.85'	NAIL SET ON TOP OF CURB

Revisions			
No.	Description	By	Date


 Electric Bus Charging Project
 Tinloy Street Transit Center
SURVEY SHEET
 Nevada County – Department of Public Works

CIVIL ONLY

 Designed: RP SEW
 Drawn: RP
 Checked: SEW PP KN
 Job No: 889830
 Date: Dec. 18, 2024
 Scale Reference
 0  1in
 Drawing
VF101

NOTES

1. CONTRACTOR SHALL RELOCATE UTILITIES AS NECESSARY TO COMPLETE THE WORK.
2. PROTECT IN PLACE ALL EXISTING FACILITIES NOT TO BE DEMOLISHED.
3. CONTRACTOR SHALL CONTACT U.S.A. (UNDERGROUND SERVICE ALERT) AT LEAST 48 HOURS PRIOR TO EXCAVATING ANY AREA CONTAINING UNDERGROUND UTILITIES.
4. PROVIDE PULL TAPE IN ALL EMPTY CONDUITS.
5. PROVIDE CORRESPONDING DURABLE WATERPROOF LABELS AT BOTH ENDS OF ALL CONDUITS. REFER TO COUNTY SPECIFICATIONS AND ATCH TO SPECS 1 FOR DETAILS
6. USE ONLY LONG RADIUS C FITTINGS.
7. ALL (N) UNDERGROUND FACILITIES SHALL BE INSPECTED AND APPROVED BEFORE BEING BACKFILLED OR COVERED.
8. AFTER TRENCH BACKFILL AND COMPACTION, ALL C RUNS SHALL BE MANDREL PROVED (EXCLUDING 3/4")
9. F&I STAINLESS STEEL C HUBS TO CABINET POWER FEEDS.
10. REFER TO ELEC PLANS AND ATCH TO SPECS 2 AND 5 FOR C SIZES AND CONDUCTOR/CABLE REQUIREMENTS.
11. GROUND RODS IN GROUND WELLS SHOWN ON ELEC PLANS SHALL BE INSTALLED AND CONNECTED TO EQUIPMENT TO EQUIPMENT MANUFACTURER'S REQUIREMENTS. GROUND CONNECTION SHALL BE PROVIDED FROM GROUND RODS IN GROUND WELLS TO CORRECT LOCATIONS ON EQUIPMENT PADS TO ENABLE GROUNDING OF EQUIPMENT TO EQUIPMENT MANUFACTURER'S REQUIREMENTS.



(E) FACILITIES NOTES

- ① 24" SS IE APPROX 11' BELOW STREET GRADE
- ② 24" SW IE APPROX 4.5' BELOW STREET GRADE AT THIS POINT

SHEET NOTES

- F1 (F) PRIMARY CONDUIT AND WIRE BY PG&E
- F2 (F) XFMR PAD AND XFMR BY PG&E PAD SIZE 106"x90"
- F3 (F) SECONDARY CONDUIT AND WIRE BY PG&E.

- ① F&I CONDUIT SWEEPS & STUB OUTS TO EXTEND MIN 3' BEYOND SWITCHGEAR PAD IN ACCORDANCE WITH PG&E STANDARDS FOR CONNECTION TO (F) PG&E XFMR. C SHALL TERMINATE WITH BELLED ENDS INSIDE THE SWITCHGEAR. PROVIDE DETECTABLE PULL TAPE TO ALL C FOR (F) SECONDARY WIRE BY PG&E. PG&E INSPECTION AND ACCEPTANCE IS REQUIRED FOR THIS WORK PRIOR TO BEING COVERED.

- ①A CAP C STUBS AND PROVIDE A MARKED STAKE AT THE LOCATION OF THE END OF THE STUBS.

- ② F&I (N) REINFORCED PCC EQUIPMENT PAD REFER TO CP101.

- ③ OFCI (N) SWITCHGEAR REFER TO ELEC PLANS AND ATCH TO SPECS 1 & 4

- ④ F&I (N) REINFORCED PCC EQUIPMENT PAD REFER TO CP101.

- ⑤ OFCI (N) GA CABINET REFER TO ELEC PLANS AND ATCH TO SPECS 1 & 2

- ⑥ F&I (N) PLANTER WALL REFER TO DETAIL 1/CZ508

- ⑦ F&I (N) CONDUITS. LENGTH OF DUCT BANK CONDUITS INCLUDING ANY DROP AND RISE SHALL NOT EXCEED 85' (TYP ALL 3 LOCATIONS).

- ⑧ OFCI PRECAST SOCKET AND 4 COILS REFER TO DETAIL 1/CZ510, ELEC PLANS AND ATCH TO SPECS 1, 2 & 3

- ⑨ F&I ELECTRICAL C AND CONDUCTORS/CABLES FROM GA CABINET TO SWITCHGEAR AND CONNECT. REFER TO ELEC PLANS AND ATCH TO SPECS 1, 2 & 4.

- ⑩ PULL AND CONNECT OFCI LITZ CABLES, RF CABLES, FIBEROPTIC CABLE AND COOLING HOSES FOR COILS. REFER TO ELEC PLANS AND ATCH TO SPECS 1, 2 & 3.

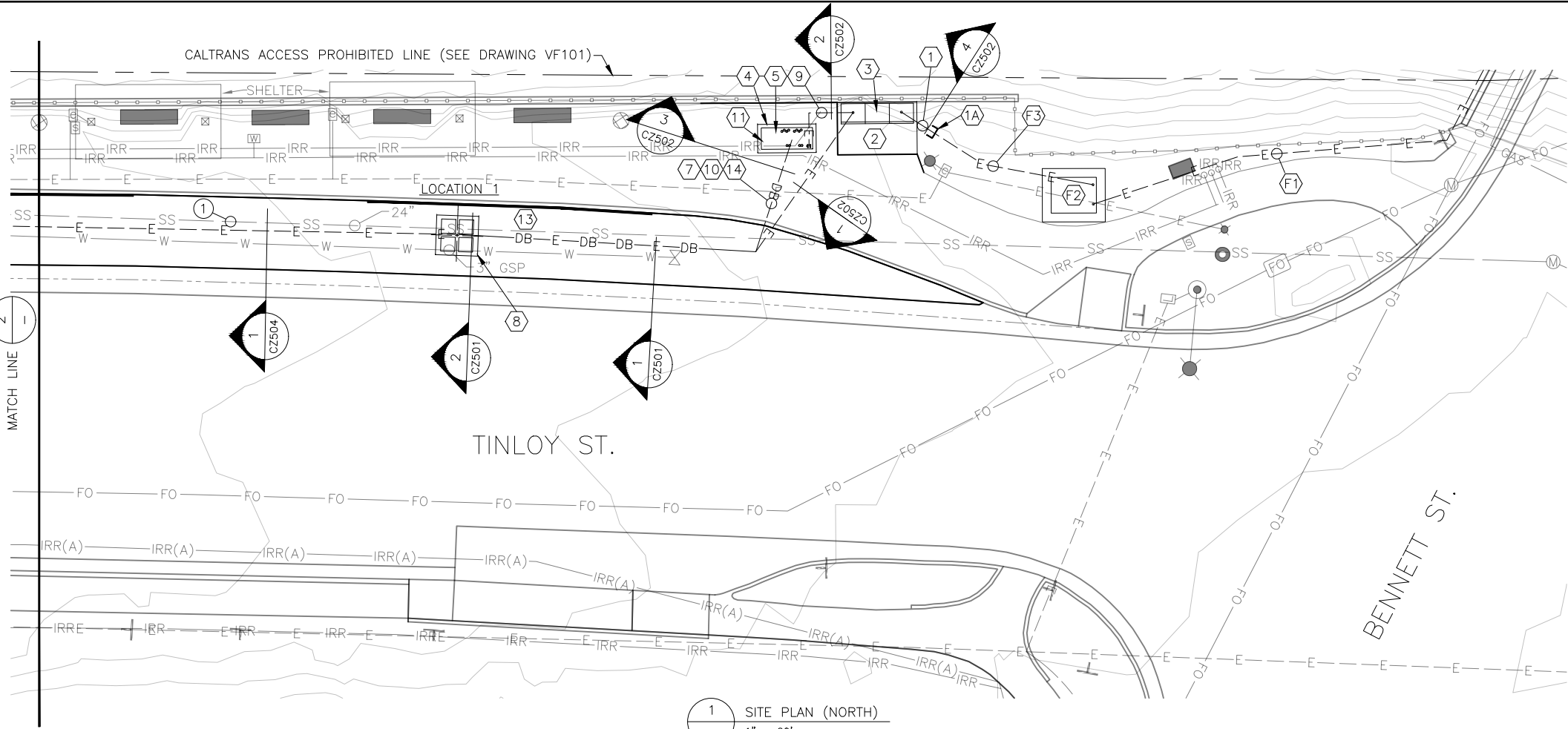
- ⑪ GA AIR CONDITIONER INSTALLED THIS END

- ⑫ F&I (N) VAULT AND LID, REFER TO CP101

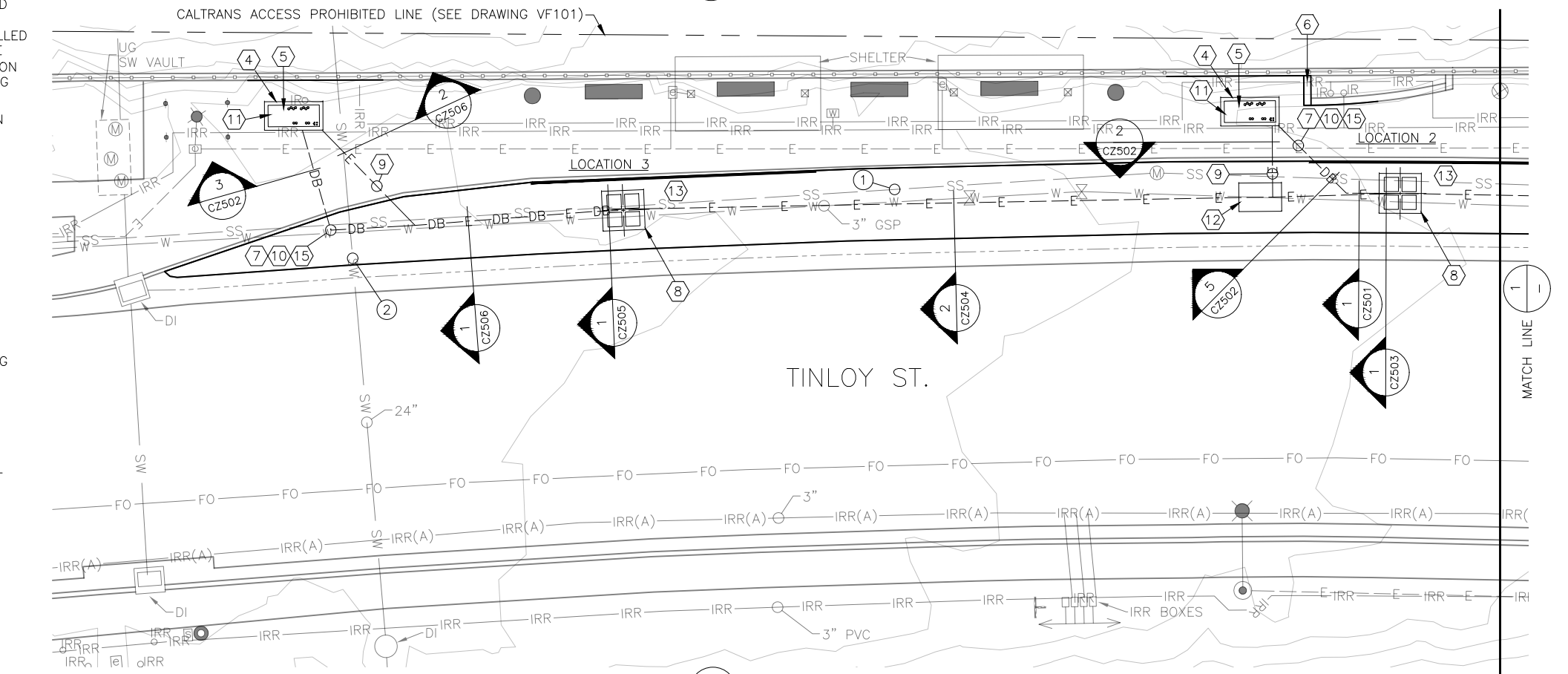
- ⑬ F&I CURB RUB RAIL, SEE 1/CZ509

- ⑭ REFER TO CZ520 FOR REQUIRED CONDUIT SCHEMATIC

- ⑮ REFER TO CZ521 FOR REQUIRED CONDUIT SCHEMATIC



1 SITE PLAN (NORTH)
1" = 20'



2 SITE PLAN (SOUTH)
1" = 20'

Revisions	
Date	By
Description	No.



Electric Bus Charging Project
Tinloy Street Transit Center

SITE PLAN

Nevada County – Department of Public Works



Designed: RP SEW
Drawn: RP
Checked: SEW PP EL
Job No: 889830
Date: Dec. 18, 2024

Scale Reference
0 1in

Drawing
CS101

NOTES

1. PAINT CURB SECTIONS BETWEEN JOINTS IN SIDEWALK AS SHOWN ON SITE PLAN. (NOTE THE 6" BAND OF COLOR 009DDE)
2. PREPARE CURB SURFACE AND APPLY PRIMER AND PAINT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. USE PREVIOUSLY APPLIED CANS OF PAINT FOR COLOR MATCHING. COORDINATE WITH NEVADA COUNTY FACILITIES SERVICES DEPARTMENT FOR ACCESS.
4. FOR FUTURE MAINTENANCE, PROVIDE TO THE COUNTY A COMPLETE LIST OF PRODUCTS USED AND COPIES OF ALL PAINT FORMULAS. IF USEABLE AMOUNTS OF PAINT ARE LEFT AFTER CURBS ARE PAINTED, COUNTY RESERVES THE OPTION TO KEEP PAINT FOR FUTURE USE.

FOR NEW CURB

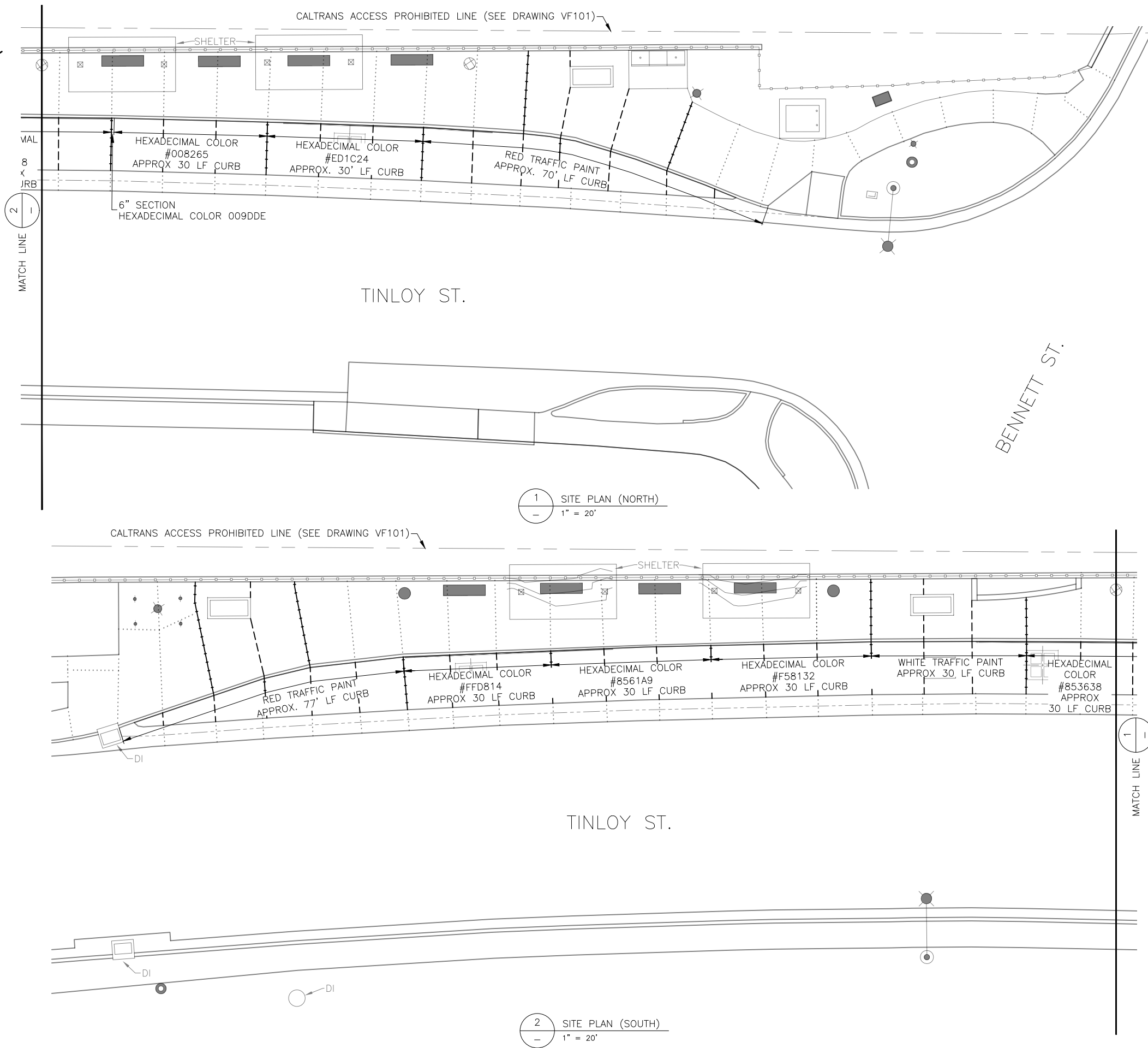
5. APPLY BENJAMIN MOORE "FRESH START" ACRYLIC PRIMER OR EQUAL.
6. APPLY 2 COATS OF BENJAMIN MOORE "COROTECH COMMAND" SATIN WATERBORNE ACRYLIC URETHANE OR EQUAL

FOR CURB THAT IS ALREADY PAINTED

- IF THE EXISTING PAINT IS SOUND:
7. CLEAN THE SURFACE AND APPLY 2 COATS OF BENJAMIN MOORE "COROTECH COMMAND" SATIN WATERBORNE ACRYLIC URETHANE OR EQUAL.
- IF THE EXISTING PAINT IS FAILING:
8. SCRAPE/SAND TO REMOVE ALL LOOSE PAINT.
 9. APPLY BENJAMIN MOORE "FRESH START" ACRYLIC PRIMER OR EQUAL.
 10. APPLY 2 COATS OF BENJAMIN MOORE "COROTECH COMMAND" SATIN WATERBORNE ACRYLIC URETHANE OR EQUAL

FOR NON-CUSTOM COLORS ("RED" AND "WHITE")

11. PAINT CAN BE A SUITABLE LATEX TRAFFIC PAINT AND DOES NOT HAVE TO BE BENJAMIN MOORE "COROTECH COMMAND", BUT FOLLOW ALL OTHER REQUIREMENTS ABOVE.



Revisions			
No.	Description	By	Date



Electric Bus Charging Project
Tinloy Street Transit Center

CURB PAINTING PLAN

Nevada County – Department of Public Works



Designed: RP SEW
 Drawn: RP
 Checked: SEW PP EL
 Job No: 889830
 Date: Dec. 18, 2024

Scale Reference
 0 1in

Drawing
 CS103

NOTES

1. THIS DRAWING IS PROVIDED FOR CALTRANS INFORMATION, IT IS NOT FOR CONSTRUCTION LAYOUT.



SIDEWALK WIDTH

AS SHOWN, SIDEWALKS ARE TYPICALLY WIDER THAN THE HIGHWAY DESIGN MANUAL REQUIRES.

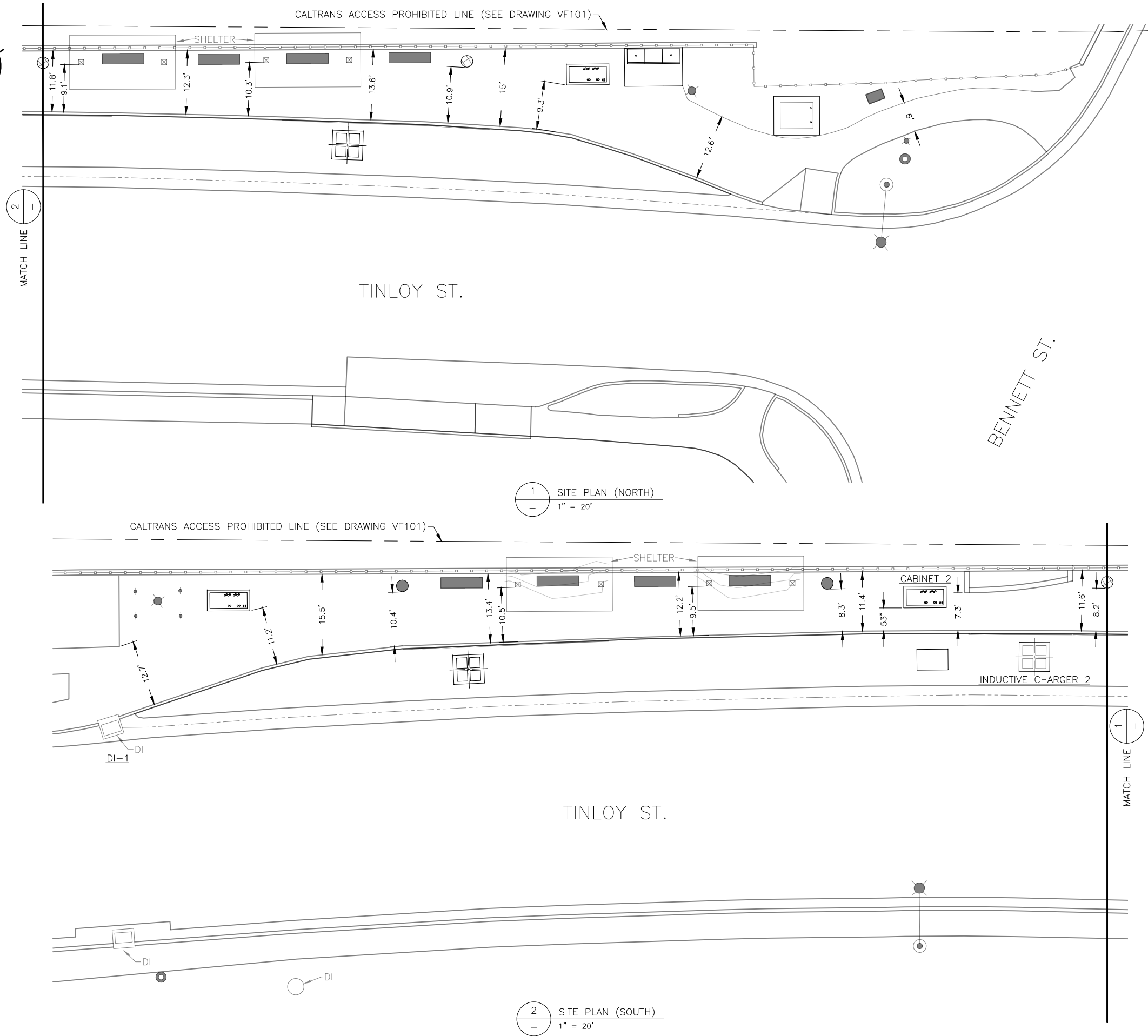
CHARGING EQUIPMENT CABINETS HAVE REQUIRED MAINTENANCE CLEARANCES AND THE LENGTH OF CABLE BETWEEN THE CABINET AND INDUCTIVE CHARGER IS RESTRICTED. WITHIN THESE CONSTRAINTS, CABINET 2 HAS BEEN LOCATED TO MINIMIZE IMPACT ON BUS SHELTERS AND SEATING/WAITING AREAS AND PROVIDE CLEAR WIDTH EXCEEDING THE DIB82 REQUIREMENT OF 48".

IMPERVIOUS AREA

IMPERVIOUS AREA CONTRIBUTING STORMWATER RUNOFF TO DI-1

PRE-PROJECT: 18,750 SF
 POST-PROJECT: 19,010 SF
 IMPERVIOUS AREA INCREASE: 260 SF

DI-1 AND THE SUBSEQUENT PIPE AND INTERCEPTOR OUTLETTING TO WOLF CREEK ARE COUNTY MAINTAINED DRAINAGE FACILITIES (NOT CALTRANS). THE 260 SF INCREASE IN IMPERVIOUS AREA DUE TO THE INSTALLATION OF ELECTRIC BUS CHARGING EQUIPMENT IS CONSIDERED TO CAUSE A NEGLIGIBLE INCREASE IN RUNOFF.



Revisions	
No.	Description



Electric Bus Charging Project
 Tinloy Street Transit Center
SIDEWALK AND IMPERVIOUS AREA DATA
 Nevada County – Department of Public Works

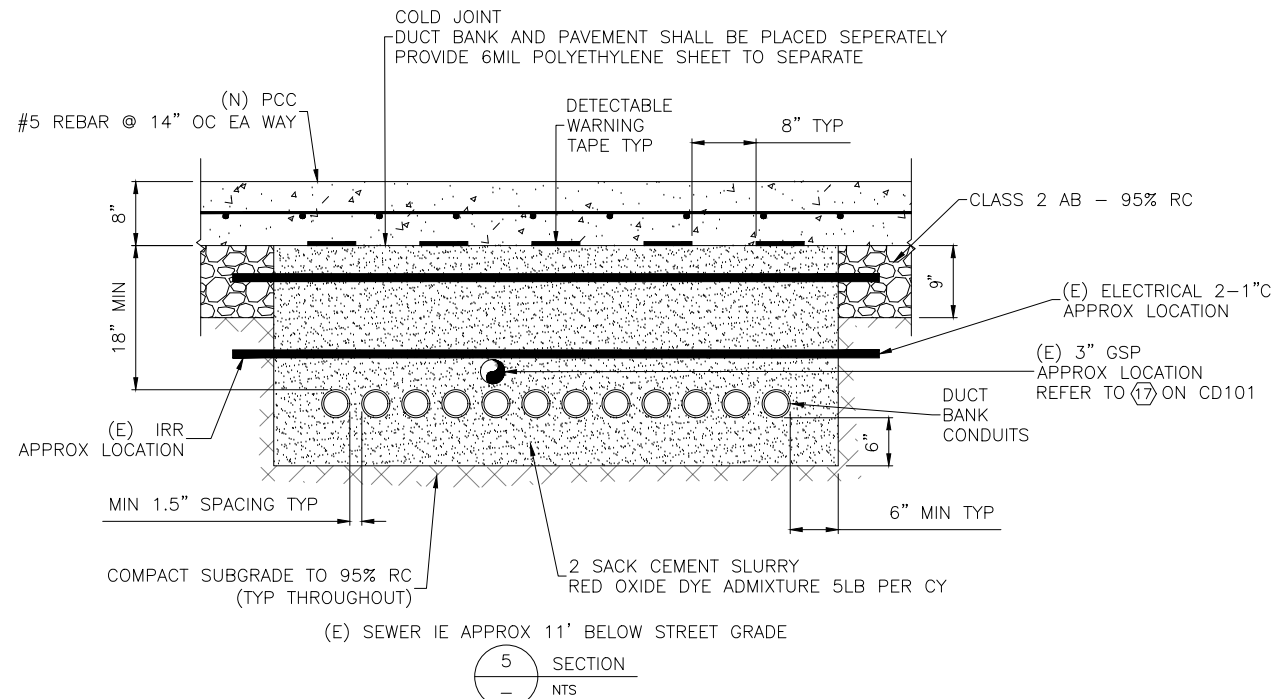
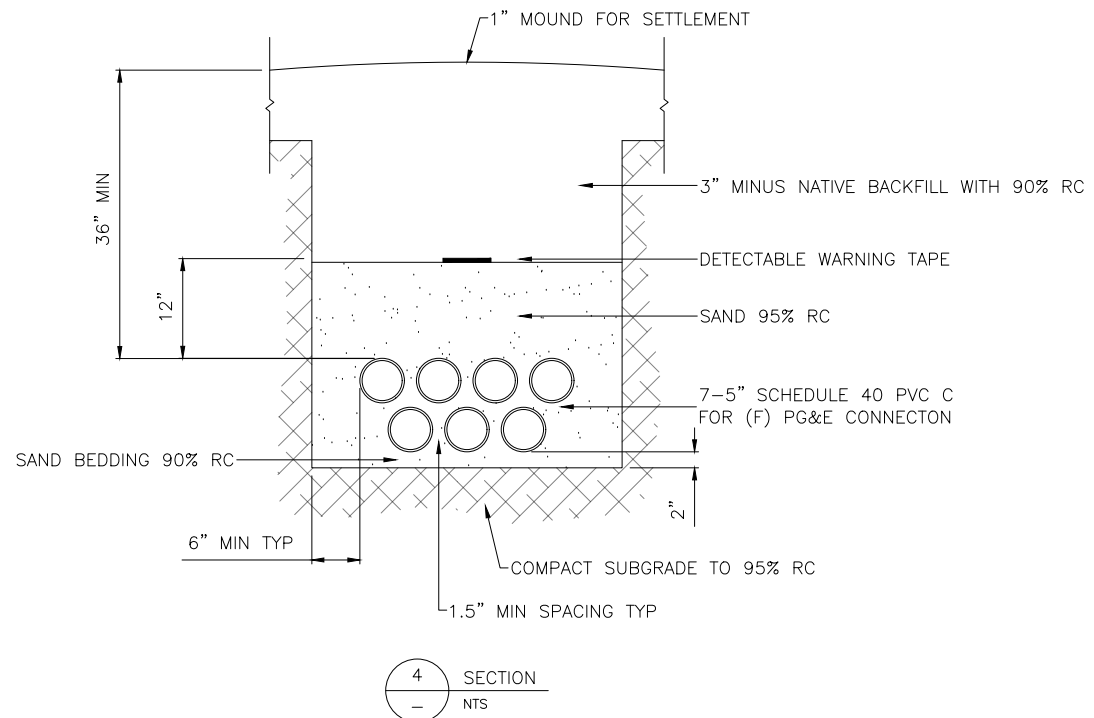
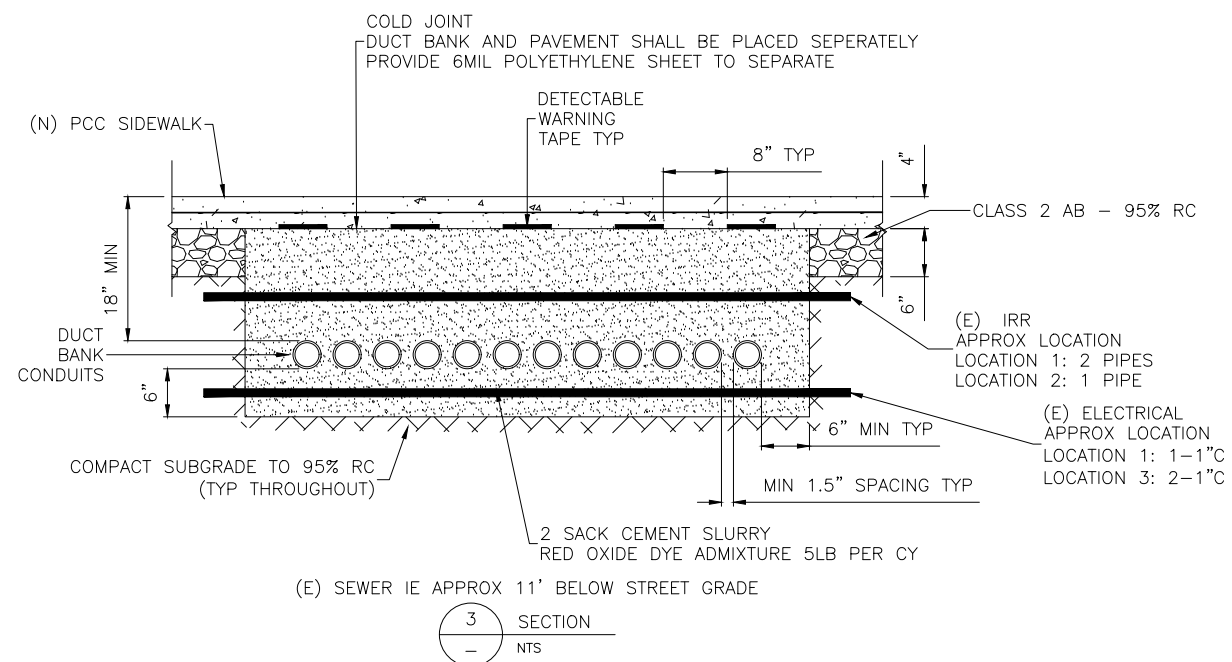
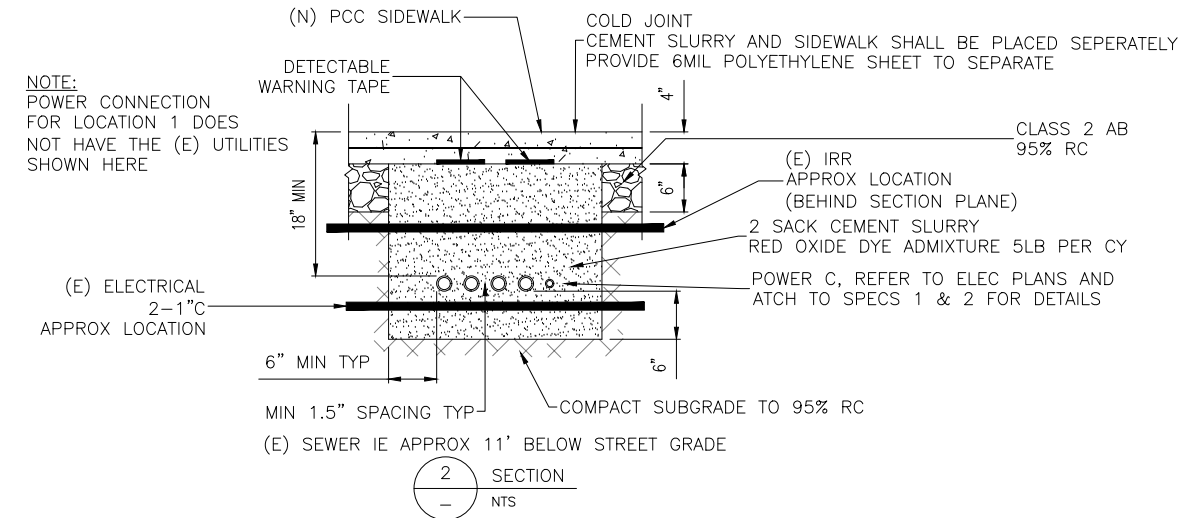
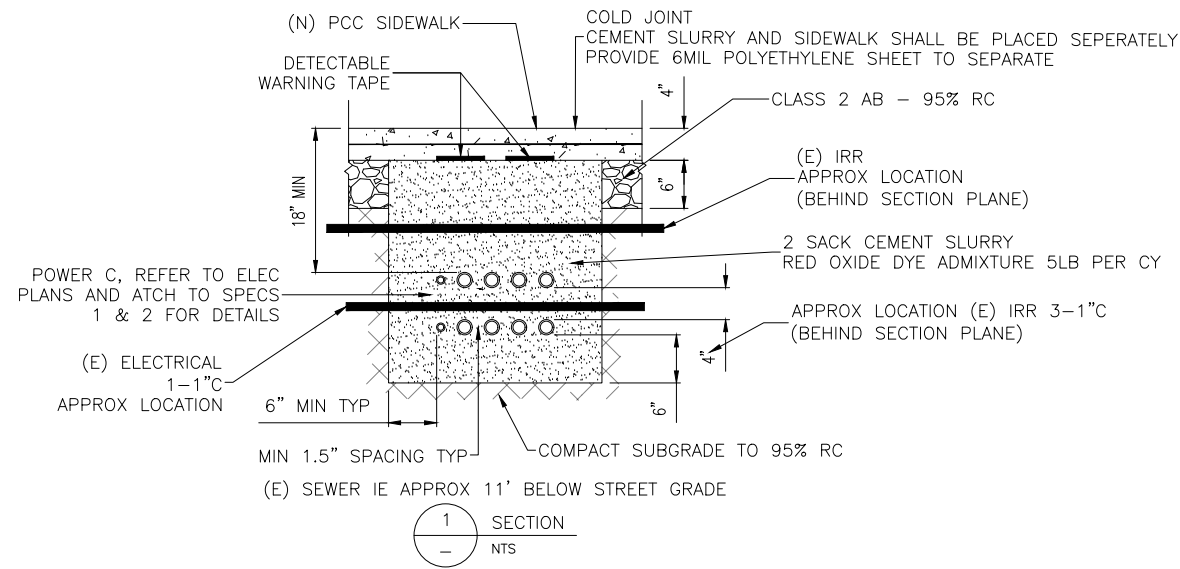


Designed: RP SEW
 Drawn: RP
 Checked: SEW PP EL
 Job No: 889830
 Date: Dec. 18, 2024

Scale Reference
 0 1in
 Drawing
CS104

NOTES

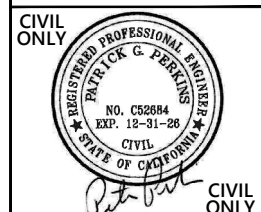
1. WHERE NEW CONDUIT CROSSES OR IS PLACED WITHIN 12" OF (E) UTILITIES, PROVIDE MIN 8" THICK 90% RC SAND BACKFILL AS A CUSHION BETWEEN (E) UTILITIES AND NEW CONDUITS UNLESS OTHERWISE DIRECTED BY ENGINEER.



Revisions	
Date	By
Description	No.



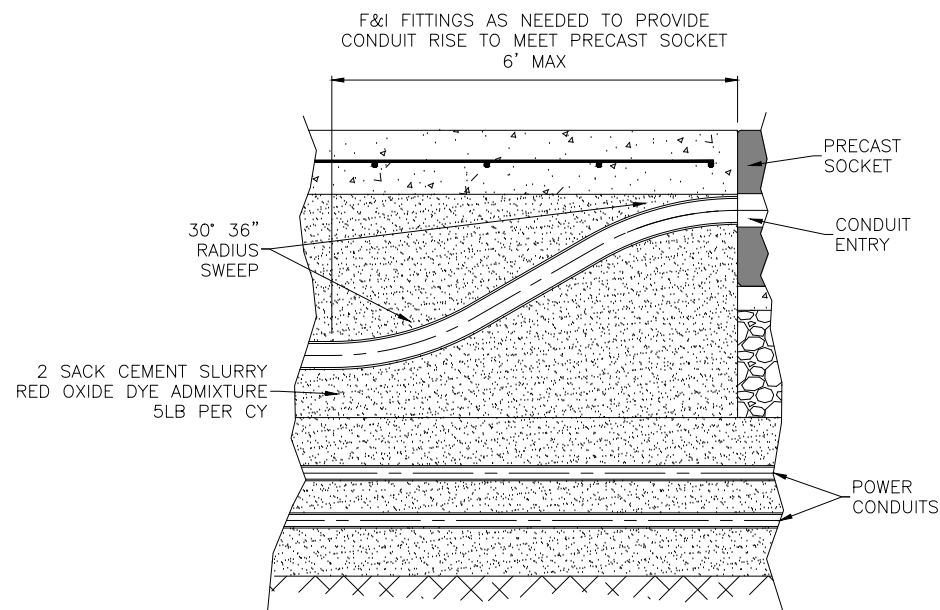
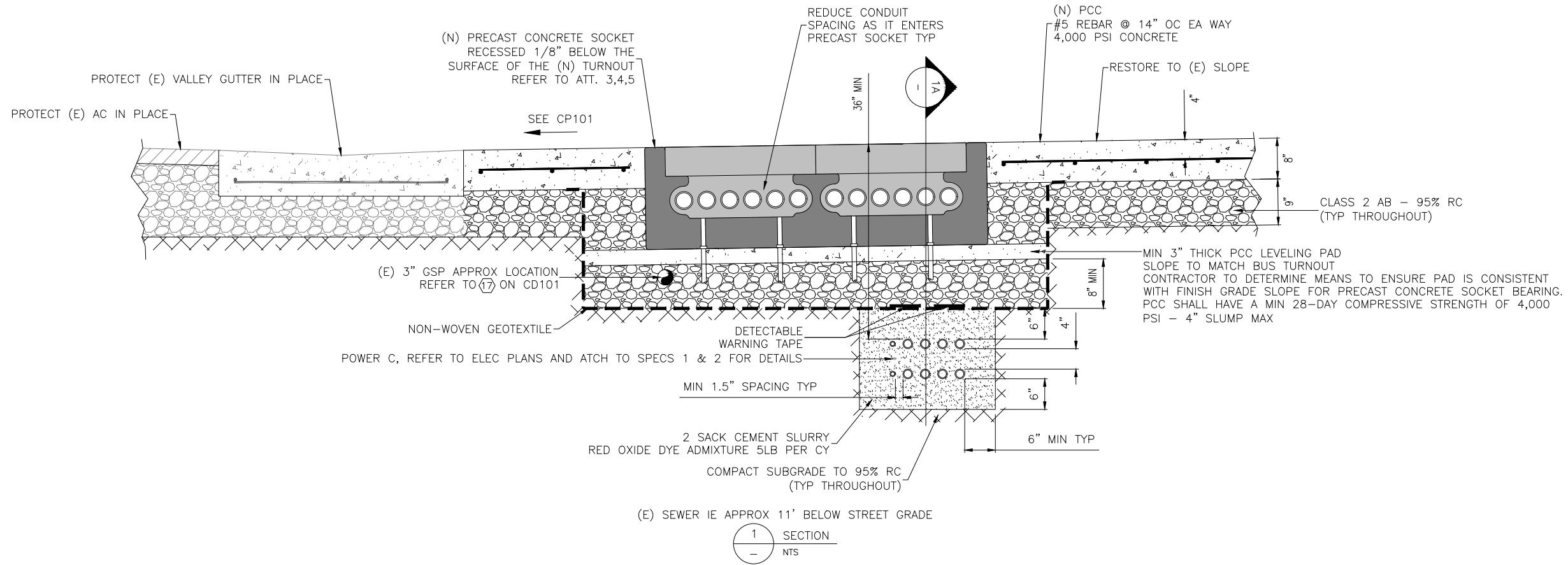
Electric Bus Charging Project
 Tinloy Street Transit Center
DETAILS
 Nevada County - Department of Public Works



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Checked:	SEW PP EL
Job No:	889830
Date:	Dec. 18, 2024
Scale Reference 0 1in	
Drawing CZ502	

NOTES

1. WHERE NEW CONDUIT CROSSES OR IS PLACED WITHIN 12" OF (E) UTILITIES, PROVIDE MIN 8" THICK 90% RC SAND BACKFILL AS A CUSHION BETWEEN (E) UTILITIES AND NEW CONDUITS UNLESS OTHERWISE DIRECTED BY ENGINEER.



1A CONDUIT TRANSITION FROM TRENCH TO PRECAST SOCKET
- NTS

Revisions	
Date	By



Electric Bus Charging Project
Tinloy Street Transit Center

DETAILS

Nevada County - Department of Public Works



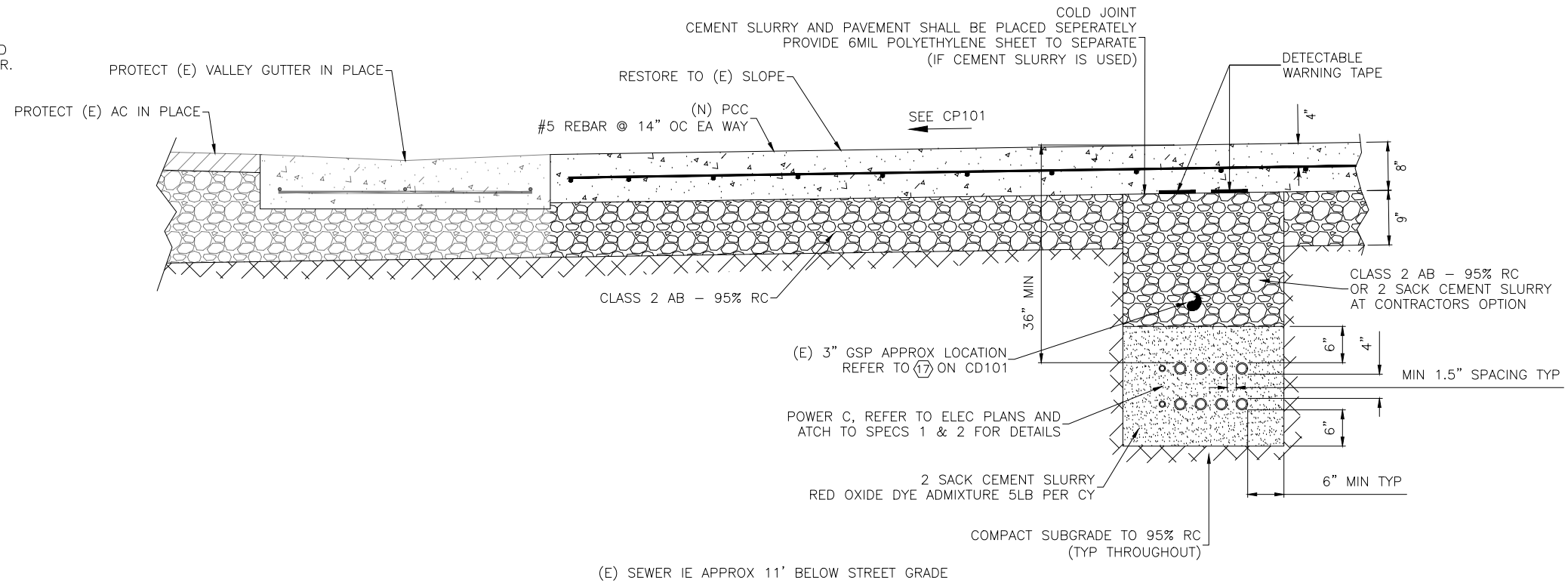
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 Checked: SEW PP EL
 Job No: 889830
 Date: Dec. 18, 2024

Scale Reference
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Drawing
 CZ503

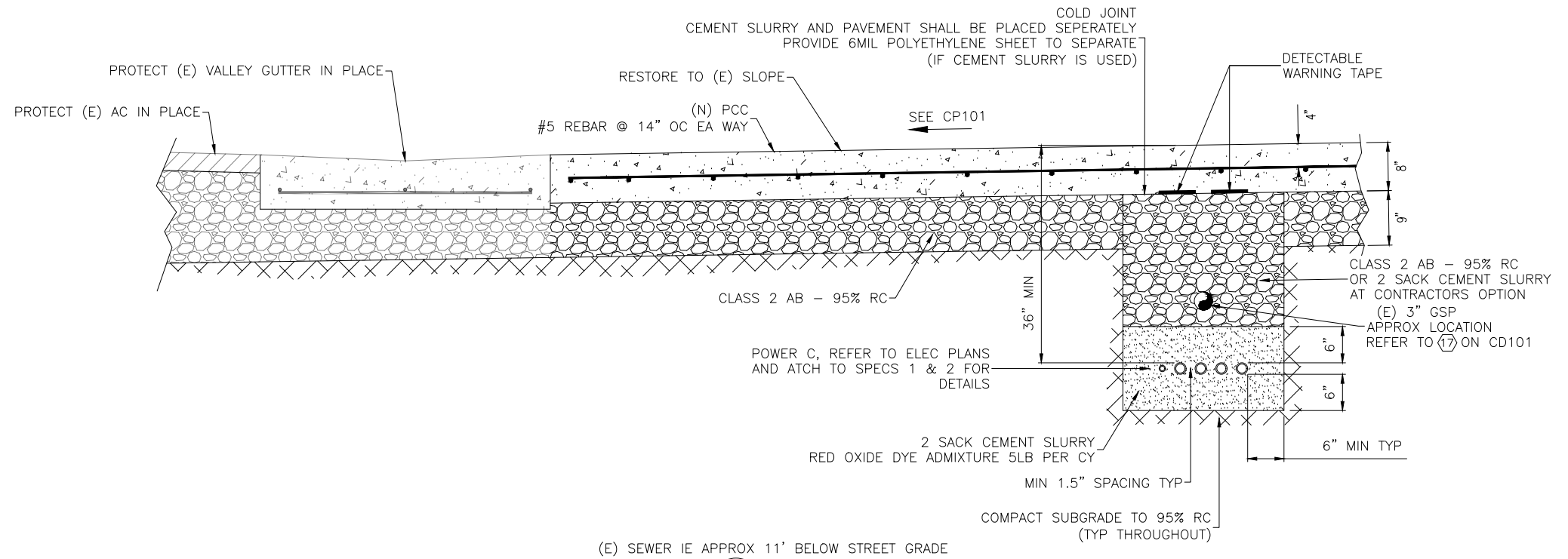
NOTES

1. WHERE NEW CONDUIT CROSSES OR IS PLACED WITHIN 12" OF (E) UTILITIES, PROVIDE MIN 8" THICK 90% RC SAND BACKFILL AS A CUSHION BETWEEN (E) UTILITIES AND NEW CONDUITS UNLESS OTHERWISE DIRECTED BY ENGINEER.



(E) SEWER IE APPROX 11' BELOW STREET GRADE

1 SECTION
- NTS



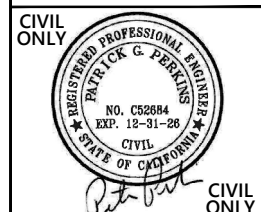
(E) SEWER IE APPROX 11' BELOW STREET GRADE

2 SECTION
- NTS

Revisions	
Date	By
No.	Description



Electric Bus Charging Project
Tinloy Street Transit Center
DETAILS
Nevada County – Department of Public Works



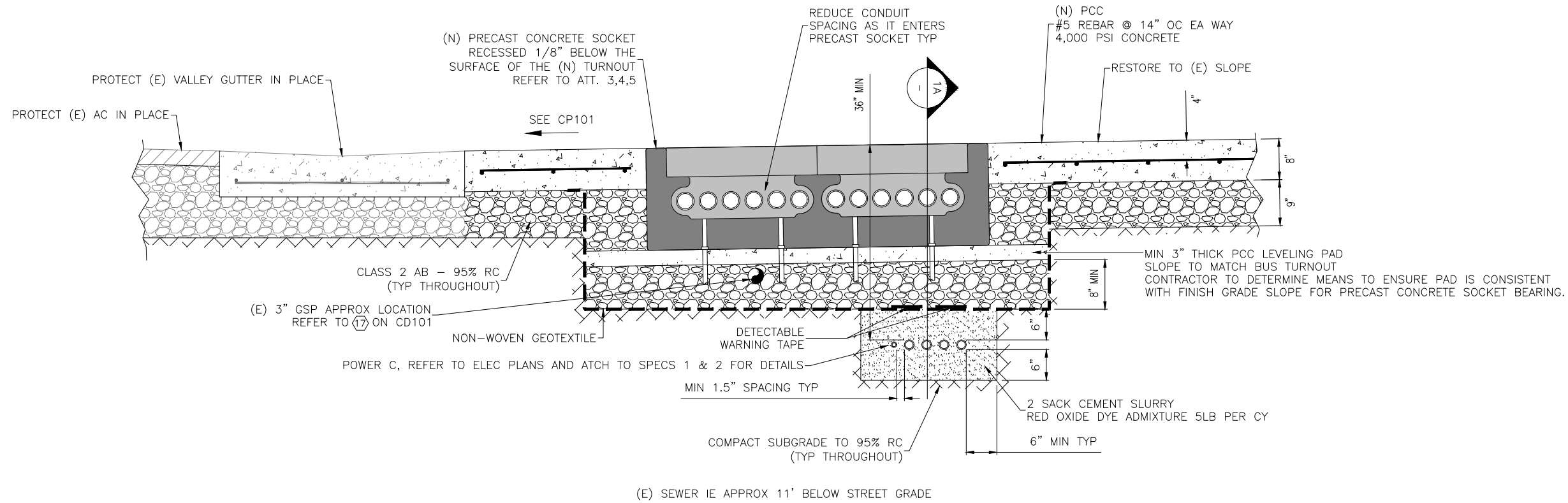
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Checked: SEW PP EL
Job No: 889830
Date: Dec. 18, 2024

Scale Reference
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Drawing
CZ504

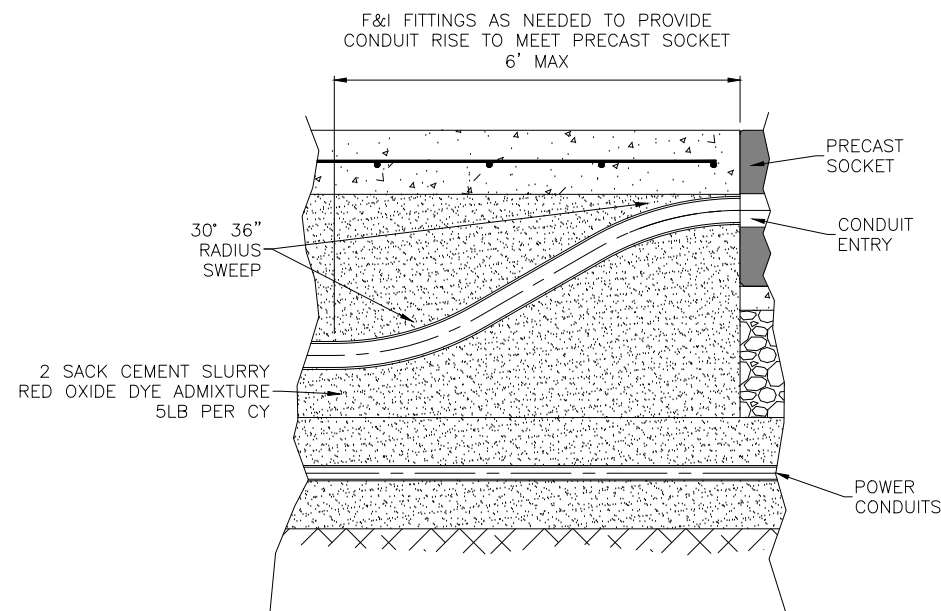
NOTES

1. WHERE NEW CONDUIT CROSSES OR IS PLACED WITHIN 12" OF (E) UTILITIES, PROVIDE MIN 8" THICK 90% RC SAND BACKFILL AS A CUSHION BETWEEN (E) UTILITIES AND NEW CONDUITS UNLESS OTHERWISE DIRECTED BY ENGINEER.



(E) SEWER IE APPROX 11' BELOW STREET GRADE

1 SECTION
- NTS

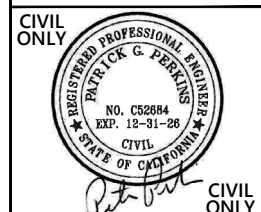


1A CONDUIT TRANSITION FROM TRENCH TO PRECAST SOCKET
- NTS

Revisions	
Date	By



Electric Bus Charging Project
Tinloy Street Transit Center
DETAILS
Nevada County – Department of Public Works

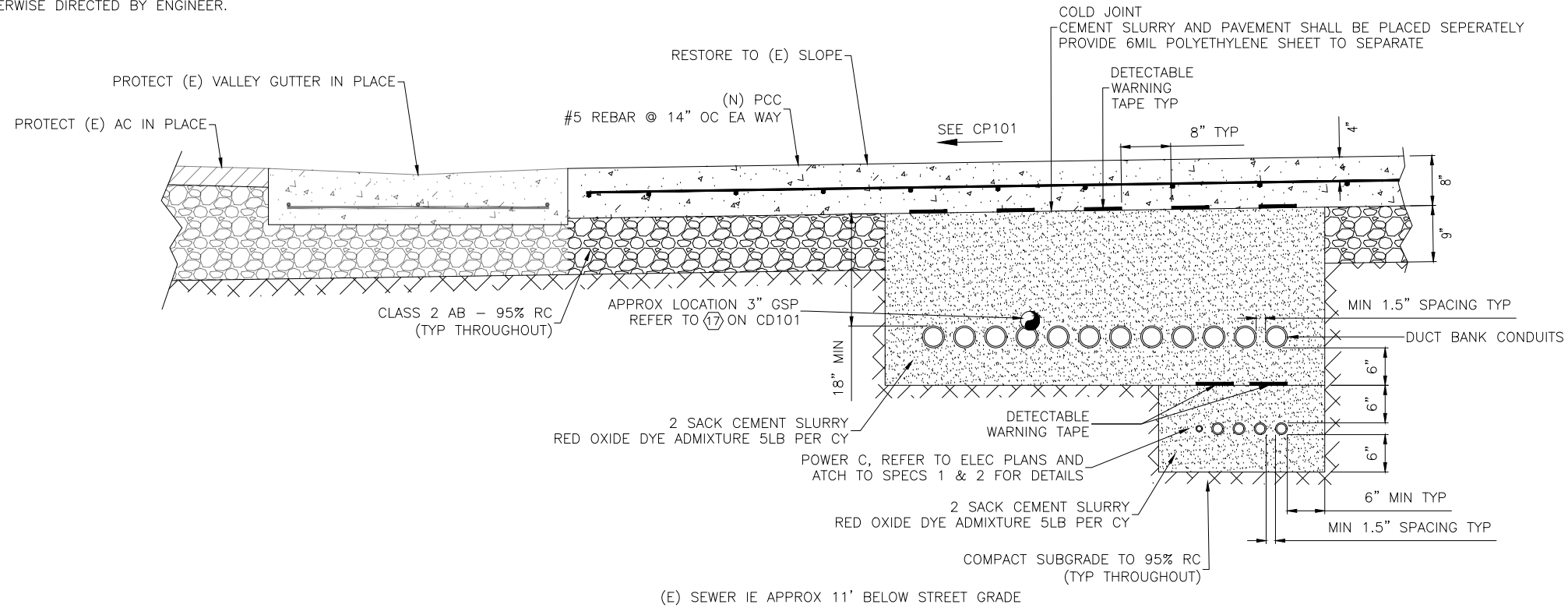


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Job No: 889830
Date: Dec. 18, 2024
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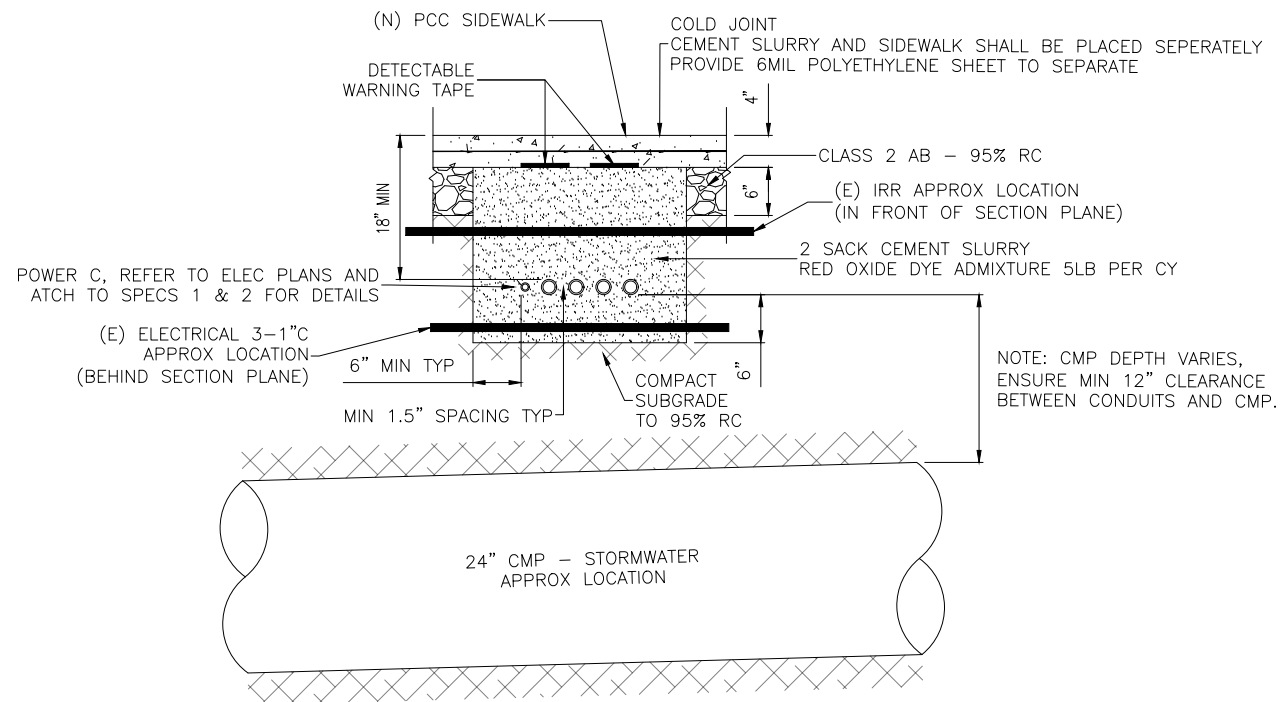
Drawing
CZ505

NOTES

1. WHERE NEW CONDUIT CROSSES OR IS PLACED WITHIN 12" OF (E) UTILITIES, PROVIDE MIN 8" THICK 90% RC SAND BACKFILL AS A CUSHION BETWEEN (E) UTILITIES AND NEW CONDUITS UNLESS OTHERWISE DIRECTED BY ENGINEER.



1 SECTION
NTS



2 SECTION
NTS

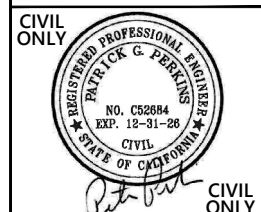
Revisions	
Date	By
No.	Description



Electric Bus Charging Project
Tinloy Street Transit Center

DETAILS

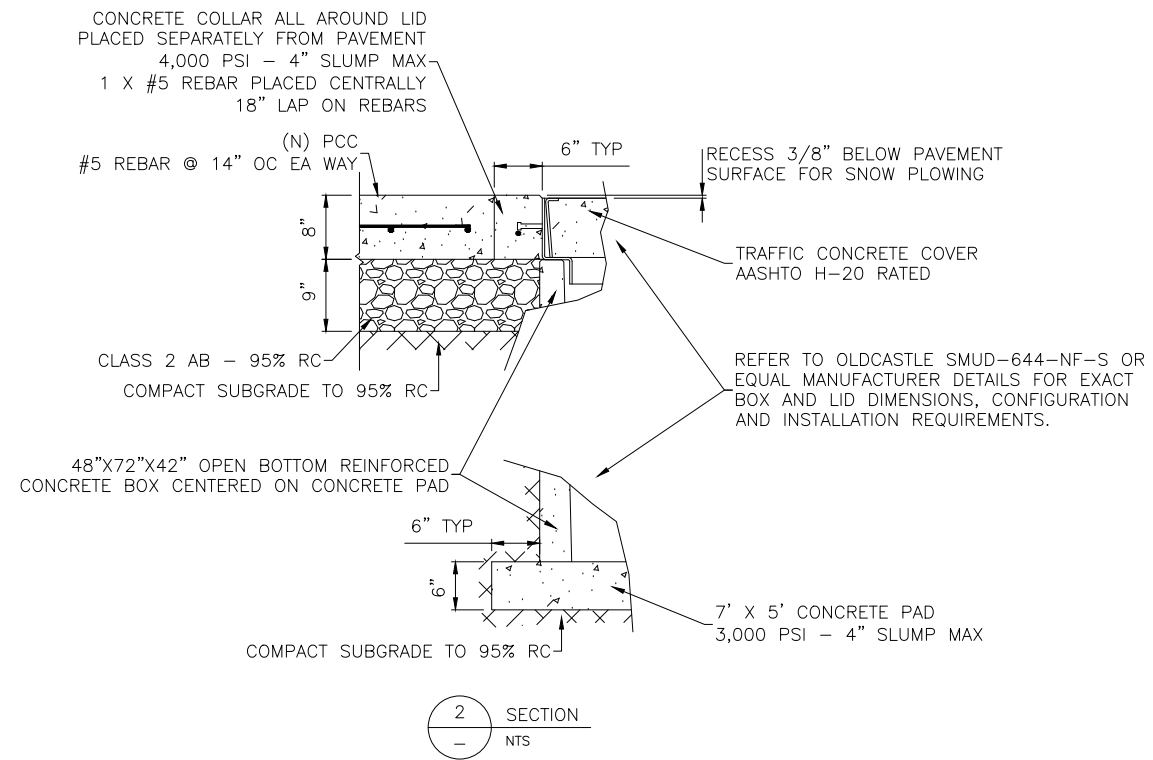
Nevada County – Department of Public Works



Designed: RP SEW
 Drawn: RP
 Checked: SEW PP EL
 Job No: 889830
 Date: Dec. 18, 2024

Scale Reference
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Drawing
 CZ506



Revisions				
No.	Description	By	Date	

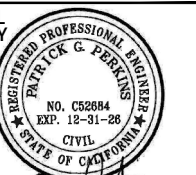


Electric Bus Charging Project
Tinloy Street Transit Center

DETAILS

Nevada County - Department of Public Works

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 Checked: SEW PP EL
 Job No: 889830
 Date: Dec. 18, 2024

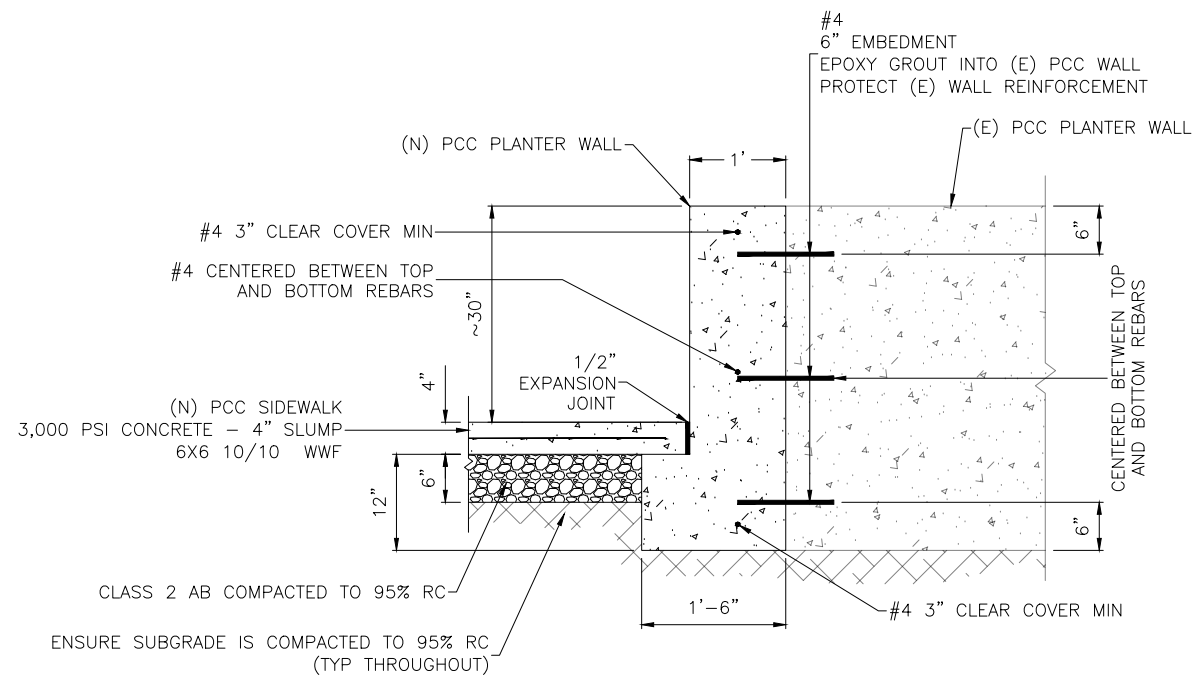
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Drawing
 CZ507

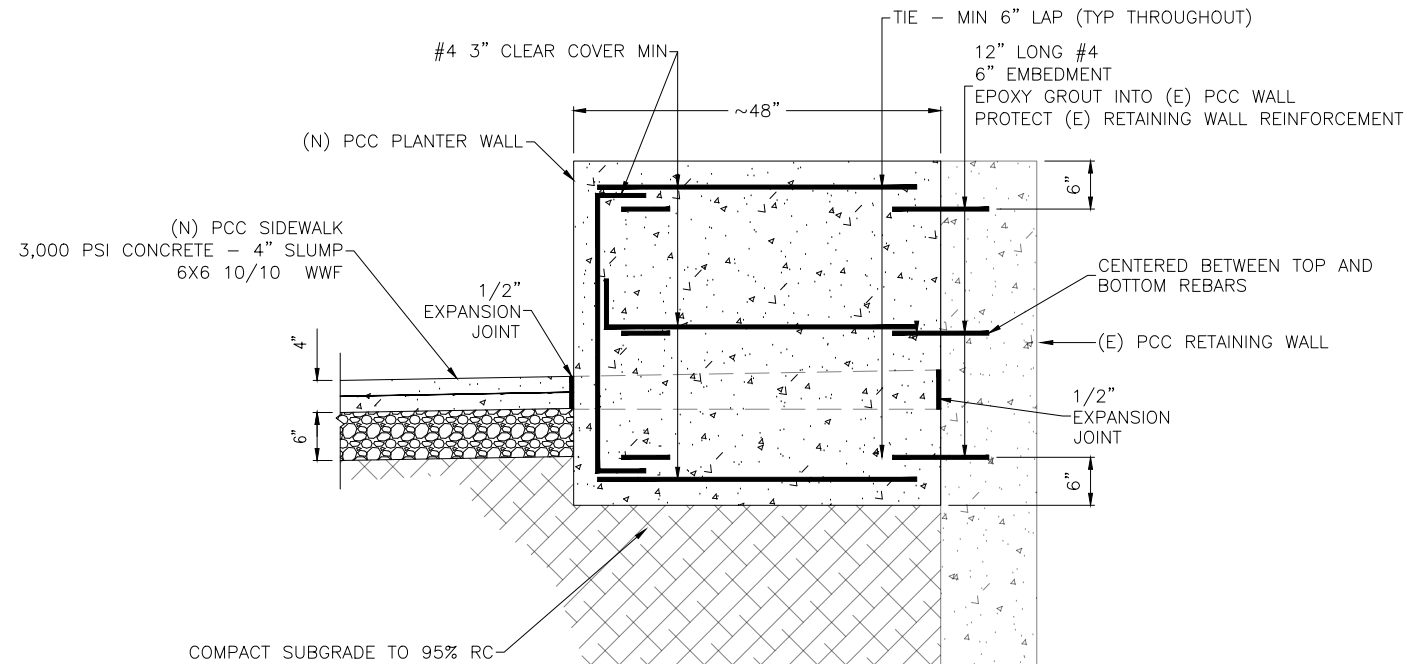
NOTES

1. PLANTER WALL PCC SHALL HAVE A MIN 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI - 4" SLUMP MAX.

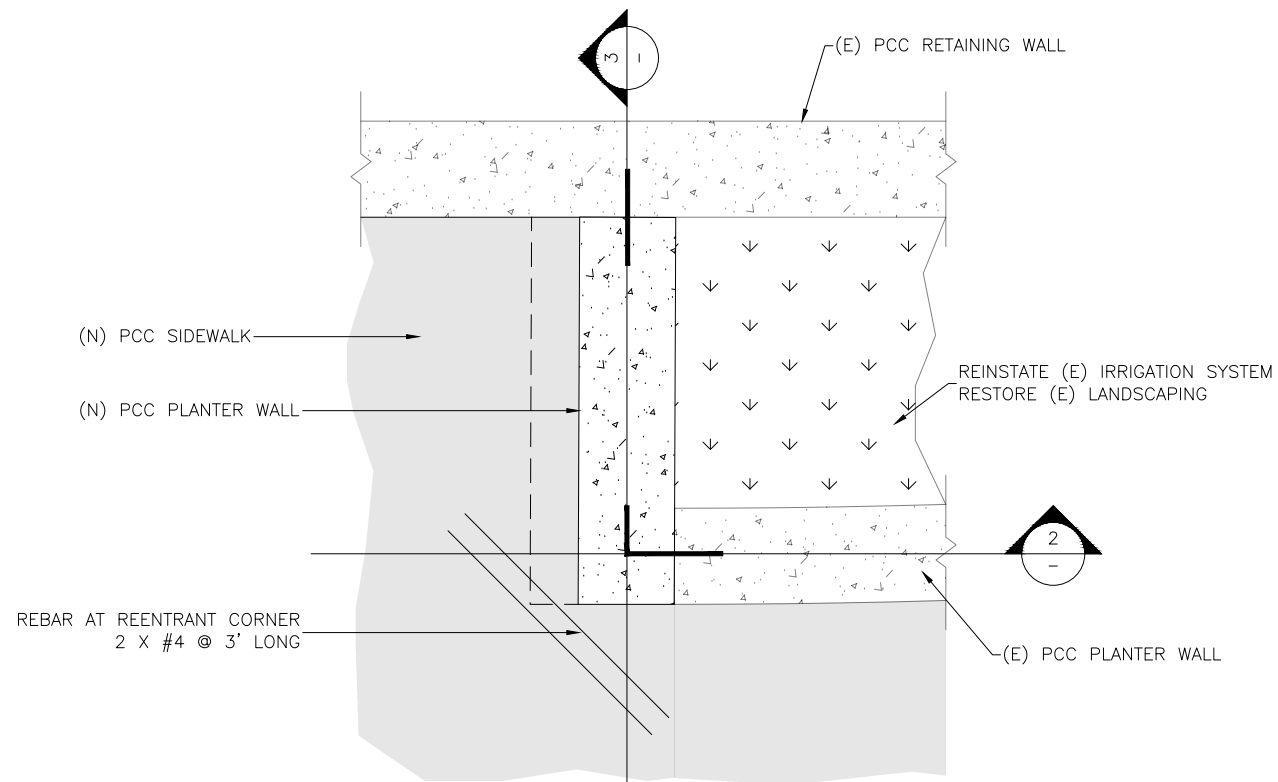
2. REFER TO CS101 FOR UTILITIES BELOW



2 SECTION
- NTS



3 SECTION
- NTS



1 DETAIL
- NTS

Revisions				
No.	Description	By	Date	



Electric Bus Charging Project
Tinloy Street Transit Center

DETAILS

Nevada County - Department of Public Works



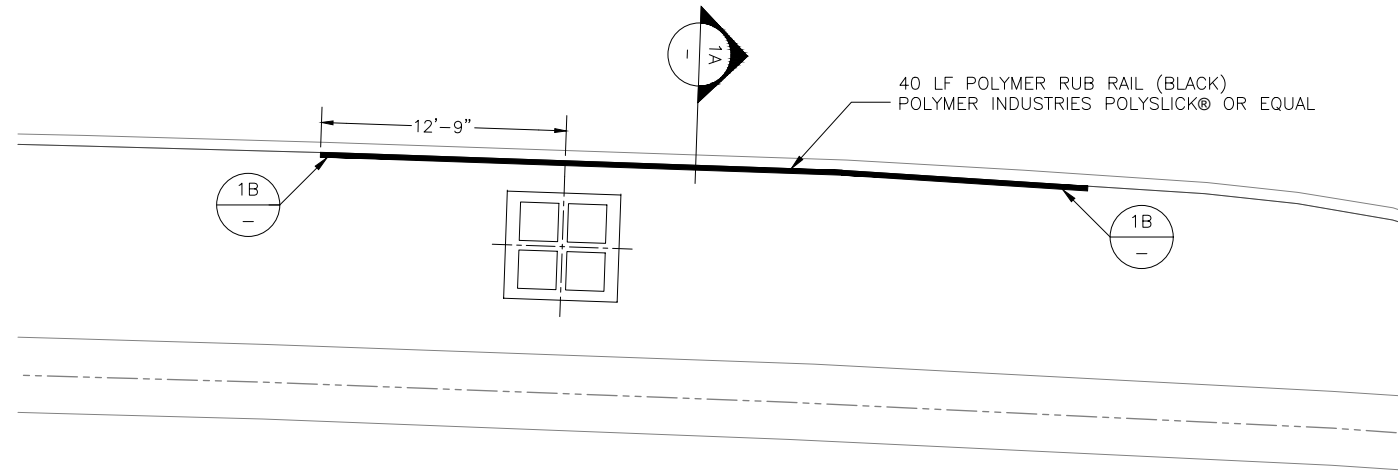
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 Job No: 889830
 Date: Dec. 18, 2024

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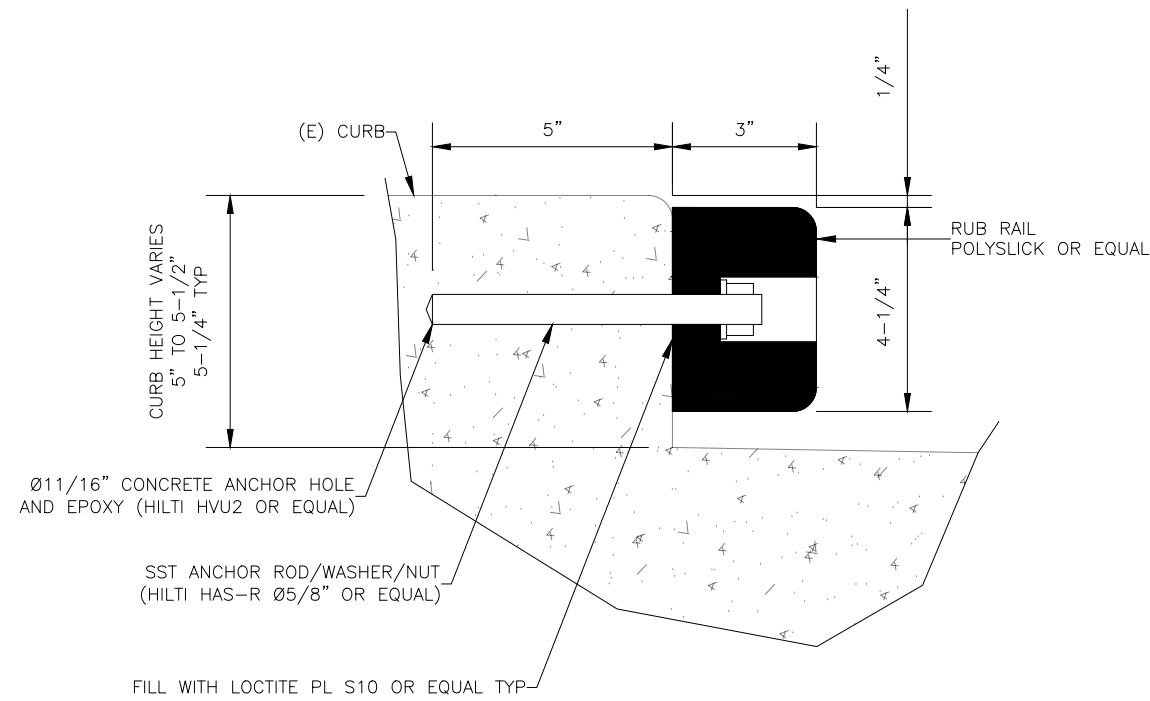
Drawing
 CZ508

NOTES

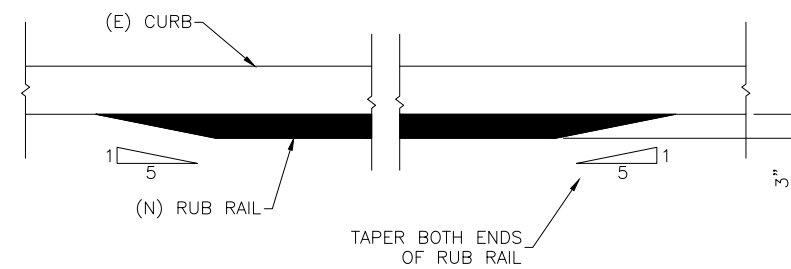
1. ANCHOR SPACING TO RUB RAIL MANUFACTURER REQUIREMENTS
2. ANCHOR INSTALLATION TO RUB RAIL AND ANCHOR MANUFACTURER REQUIREMENTS
3. PRIOR TO ADDING EPOXY, CUT ANCHOR RODS AS NECESSARY TO ENSURE THEY ARE RECESSED MIN 1" BEHIND THE FACE OF THE RUB RAIL



1 TYPICAL RUB RAIL LAYOUT
NTS



1A SECTION
NTS



1B PLAN VIEW DETAIL
NTS

Revisions				
No.	Description	By	Date	



Electric Bus Charging Project
Tinloy Street Transit Center

DETAILS

Nevada County – Department of Public Works



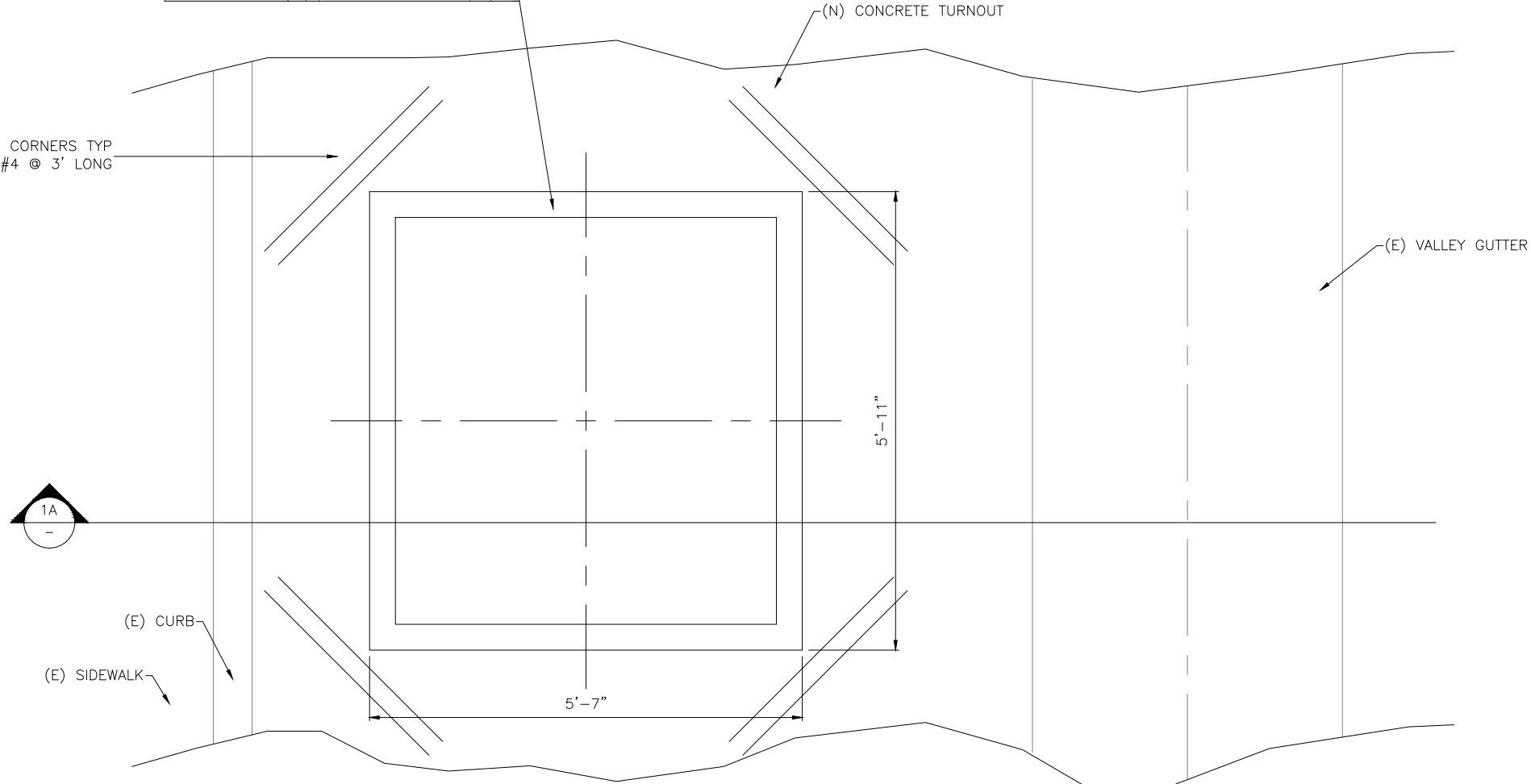
Designed: RP SEW
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Job No: 889830
Date: Dec 18, 2024

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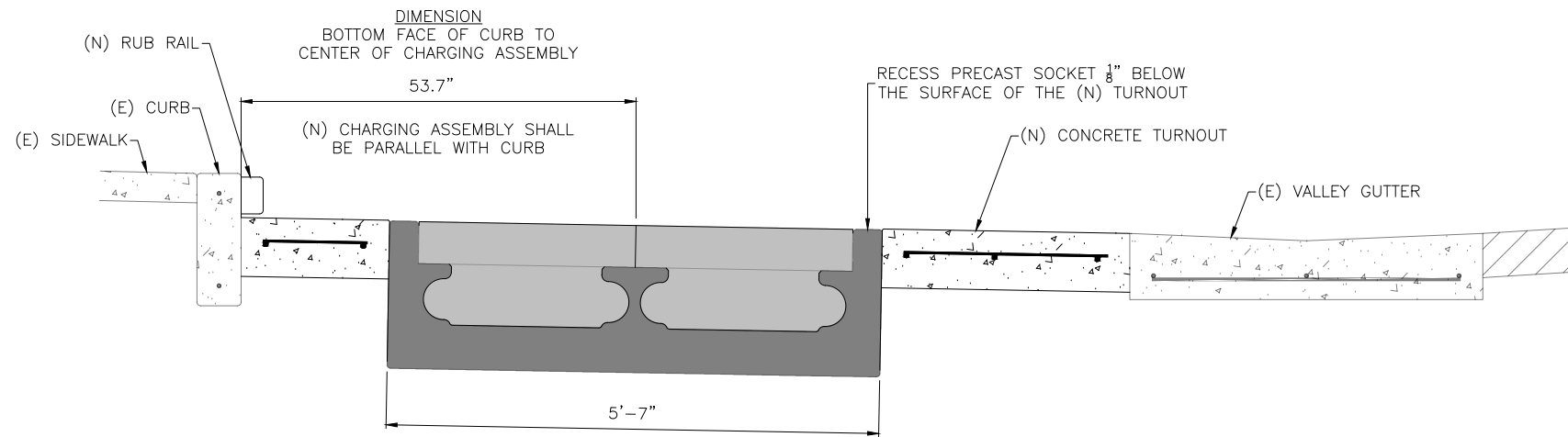
Drawing
CZ509

PRECAST SOCKET RECEIVES	
LOCATION 1	(N) CHARGING COILS (X4)
LOCATION 2	(N) CHARGING COILS (X4)
LOCATION 3	(N) CHARGING COILS (X4)

REBARS AT REENTRANT CORNERS TYP
2 X #4 @ 3' LONG



1 PLAN VIEW DETAIL FOR LOCATIONS 1 TO 3
- NTS



REFER TO CS101 FOR UTILITIES BELOW

1A SECTION
- NTS

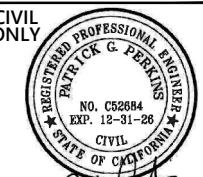
Revisions				
No.	Description	By	Date	



Electric Bus Charging Project
Tinloy Street Transit Center

DETAILS

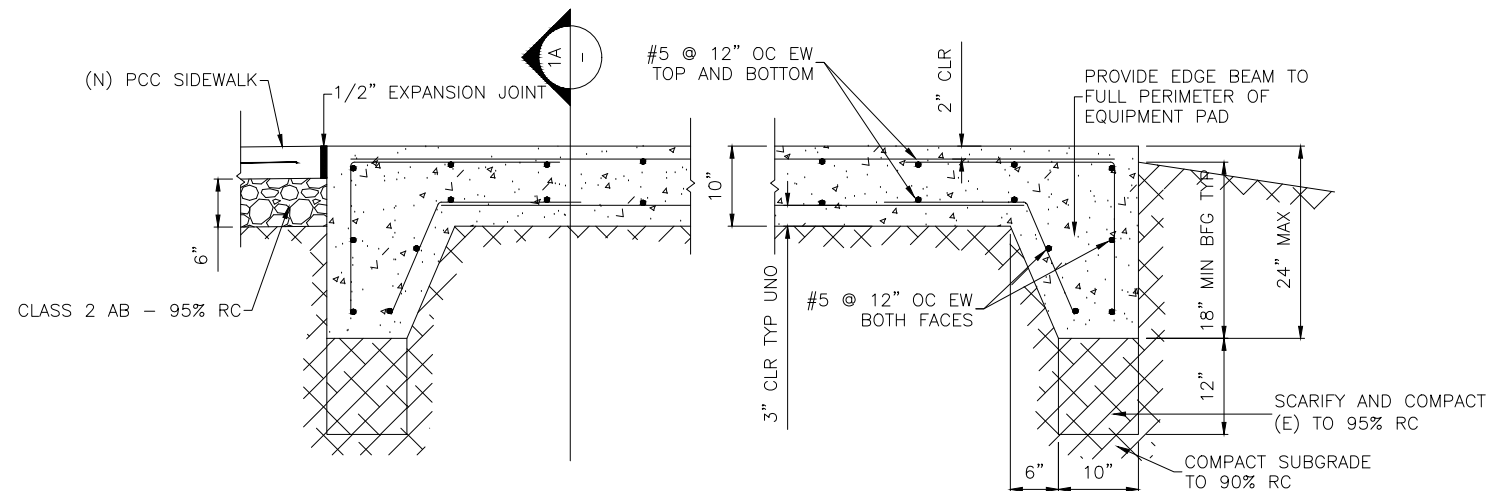
Nevada County – Department of Public Works



Designed: RP SEW
 Drawn: RP
 Checked: SEW PP EL
 Job No: 889830
 Date: Dec. 18, 2024

Scale Reference
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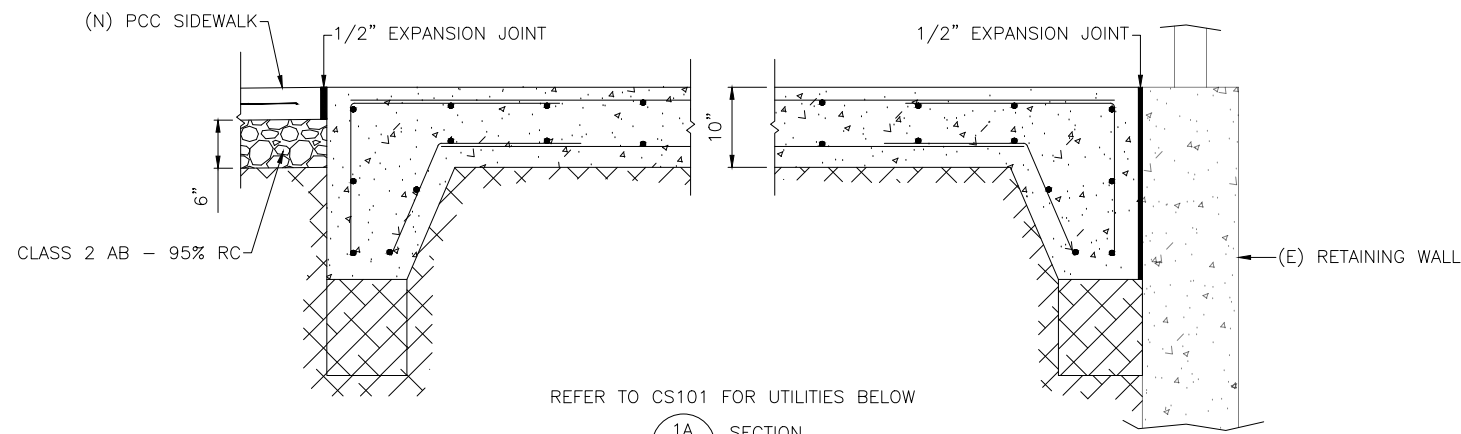
Drawing
 CZ510



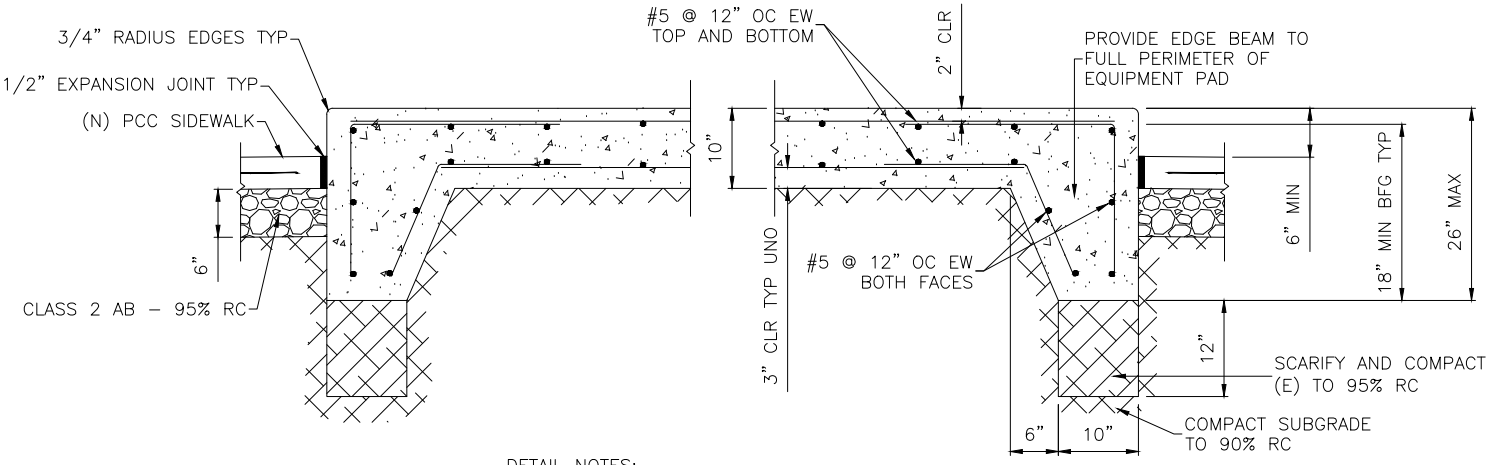
DETAIL NOTES:

1. COORDINATE REBAR PLACEMENT WITH CONDUIT PLACEMENT. ADJUST REBAR AS REQUIRED AND ADD ADDITIONAL BARS TO MAINTAIN SPACING REQUIREMENTS.

REFER TO CS101 FOR UTILITIES BELOW



REFER TO CS101 FOR UTILITIES BELOW



DETAIL NOTES:

1. COORDINATE REBAR PLACEMENT WITH CONDUIT PLACEMENT. ADJUST REBAR AS REQUIRED AND ADD ADDITIONAL BARS TO MAINTAIN SPACING REQUIREMENTS.

REFER TO CS101 FOR UTILITIES BELOW



Revisions				
No.	Description	By	Date	



Electric Bus Charging Project
Tinloy Street Transit Center

DETAILS

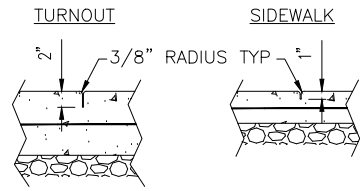
Nevada County – Department of Public Works



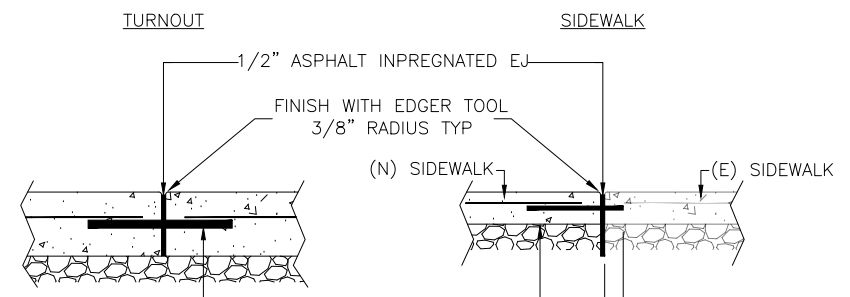
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 Drawn: RP
 Checked: SEW PP EL
 Job No: 889830
 Date: Dec. 18, 2024

Scale Reference
 0 1in

Drawing
 CZ511



1 CONTROL JOINT (DEEP TOOLED JOINT)
NTS

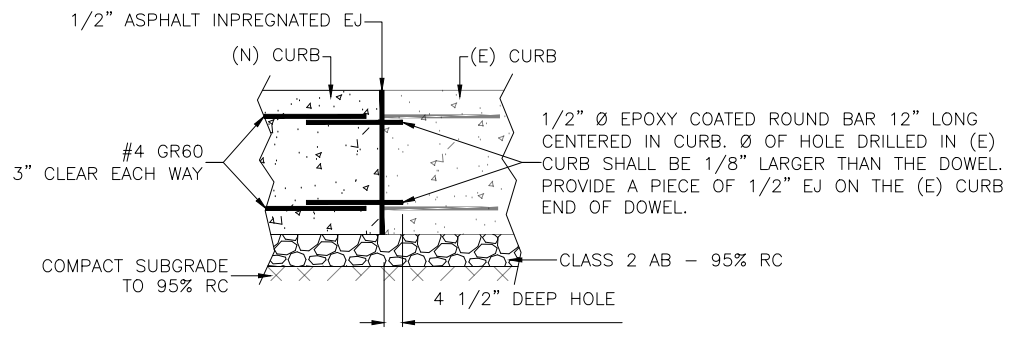


1" Ø EPOXY COATED ROUND BAR 18" LONG @ 12" OC CENTERED ON JOINT AND CENTERED IN DEPTH OF CONCRETE. PROVIDE GREASE, SLEEVE OR SIMILAR TO HALF OF BAR SO IT IS FREE TO SLIDE WITHIN THE CONCRETE, THE OTHER HALF SHALL BE FIXED. PROVIDE A PIECE OF 1/2" EJ ON THE END OF THE SLIDING HALF OF THE DOWEL.

1/2" Ø EPOXY COATED ROUND BAR 12" LONG @ 18" OC CENTERED IN DEPTH OF CONCRETE. Ø OF HOLE DRILLED IN (E) SIDEWALK SHALL BE 1/8" LARGER THAN DOWEL. PROVIDE A PIECE OF 1/2" EJ ON THE (E) SIDEWALK END OF THE DOWEL.

2 DOWELED EXPANSION JOINT
NTS

NOTE:
PROVIDE 1" DEEP CONTROL JOINT PER DETAIL 1 ALONG CURB AT SIDEWALK JOINTS



3 CURB DETAIL
NTS

Revisions				
No.	Description	By	Date	



Electric Bus Charging Project
Tinloy Street Transit Center

DETAILS

Nevada County – Department of Public Works

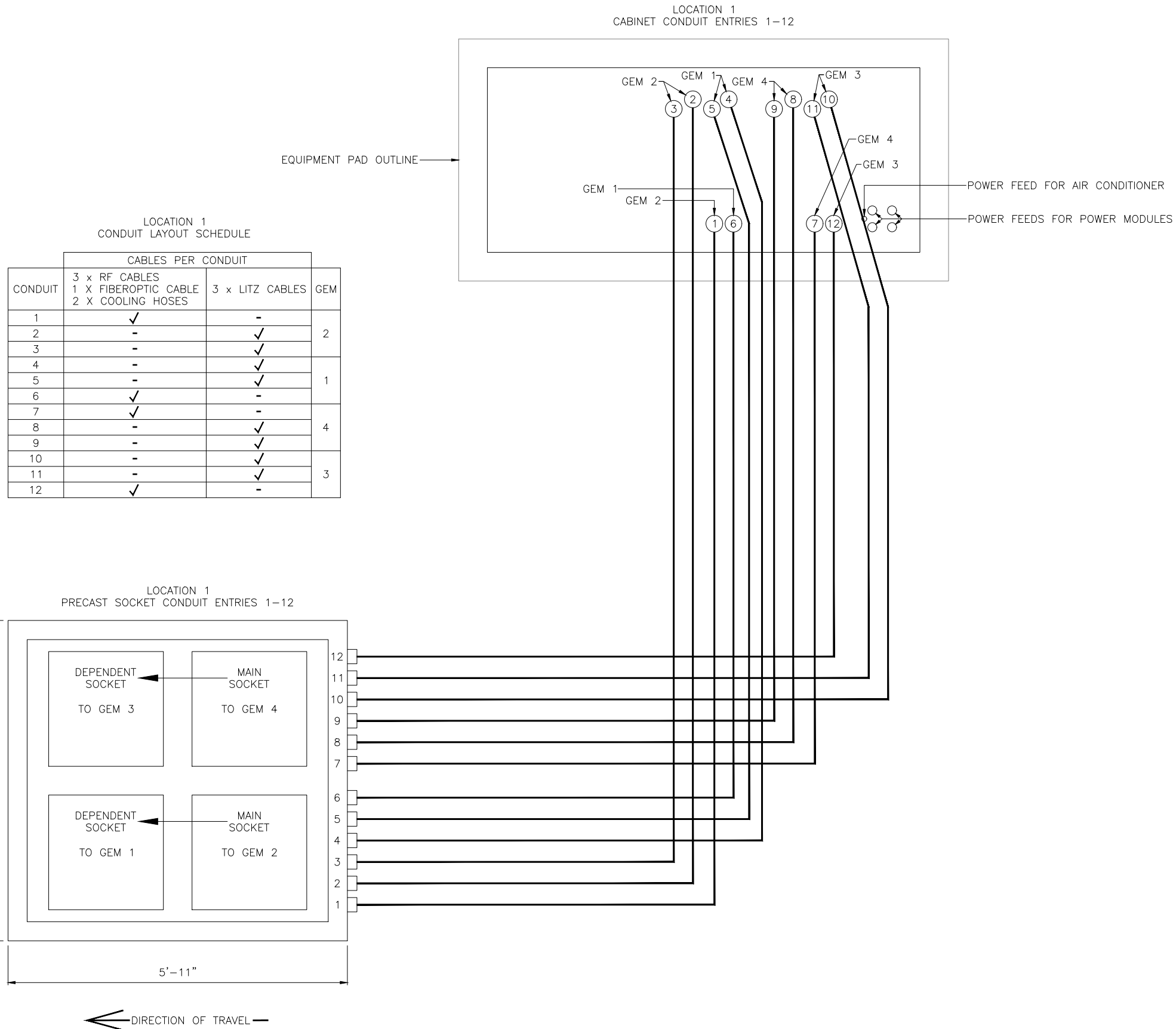


Designed: RP SEW
 Drawn: RP
 Checked: SEW PP EL
 Job No: 889830
 Date: Dec. 18, 2024

Scale Reference
 0 1in

Drawing
 CZ512

- NOTES:
 1. SCHEMATICS ARE DIAGRAMMATIC AND DO NOT PORTRAY PHYSICAL LOCATIONS OR DETAILS.
 2. COORDINATE SCHEMATIC WITH LOCATIONS AND INSTALLATION REQUIREMENTS SHOWN ON SITE PLANS AND ATCH TO SPECS 2 & 3.



1 LOCATION 1 CONDUIT SCHEMATIC
 - NTS

Revisions				
No.	Description	By	Date	



Electric Bus Charging Project
 Tinloy Street Transit Center
DETAILS
 Nevada County – Department of Public Works



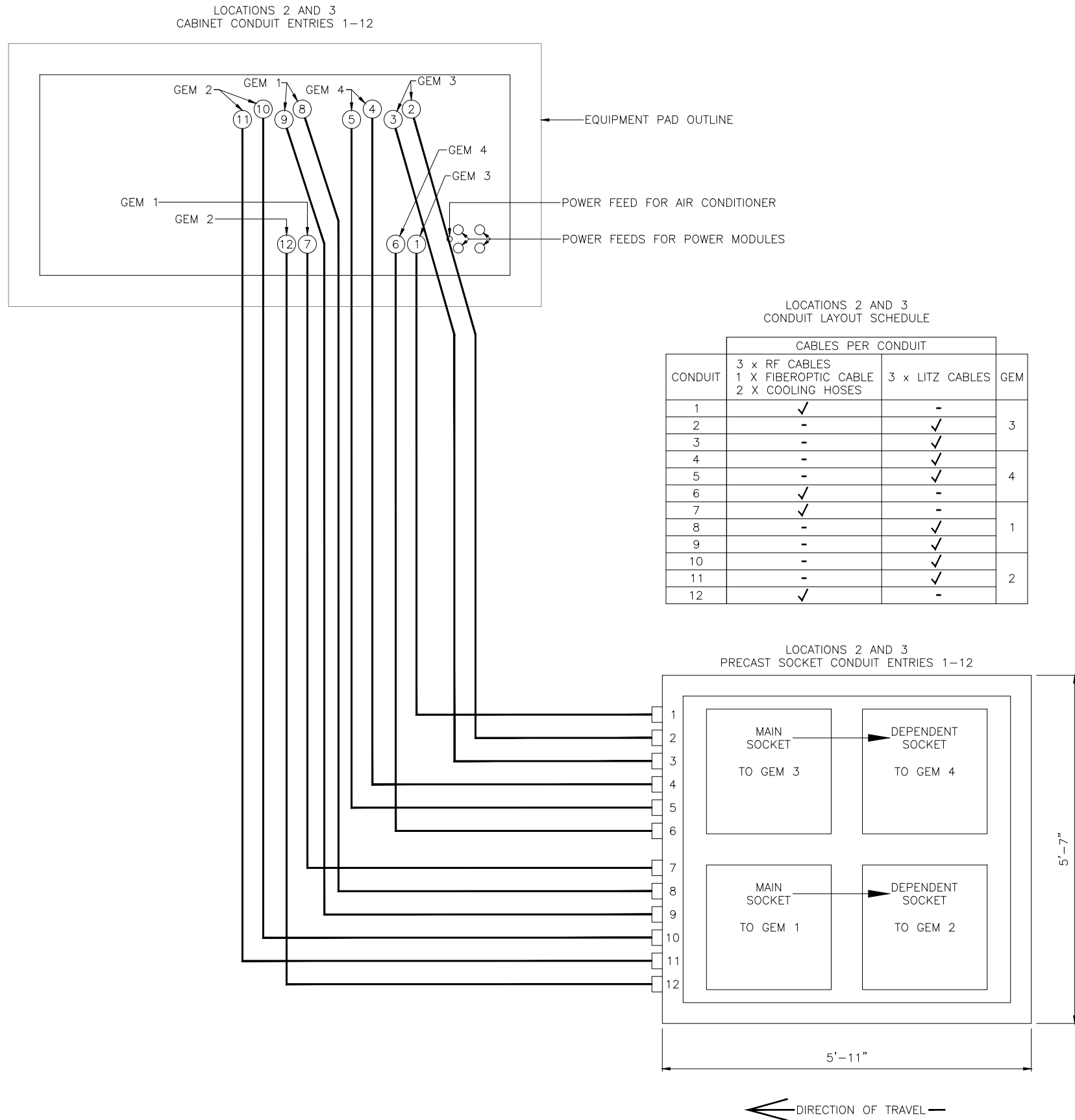
Designed: RP SEW
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 Checked: SEW PP EL
 Job No: 889830
 Date: Dec. 18, 2024

Scale Reference
 0 1in

Drawing
 CZ520

NOTES:

1. SCHEMATICS ARE DIAGRAMMATIC AND DO NOT PORTRAY PHYSICAL LOCATIONS OR DETAILS.
2. COORDINATE SCHEMATIC WITH LOCATIONS AND INSTALLATION REQUIREMENTS SHOWN ON SITE PLANS AND ATCH TO SPECS 2 & 3.



1 LOCATIONS 2 AND 3 CONDUIT SCHEME
- NTS

Revisions				
No.	Description	By	Date	



Electric Bus Charging Project
Tinloy Street Transit Center

DETAILS

Nevada County – Department of Public Works



Designed: RP SEW
 Drawn: RP
 Checked: SEW PP EL
 Job No: 889830
 Date: Dec. 18, 2024

Scale Reference
 0 1in

Drawing
 CZ521



GRASS VALLEY - TINLOY STREET TRANSIT CENTER - EV BUS CHARGING STATION

STATE RT 20/49 GRASS VALLEY, CA 95945

PROJECT DESCRIPTION	PROJECT TEAM	CODE INFORMATION	SHEET INDEX												
<p>PROJECT CONSISTS OF THE INSTALLATION A NEW UTILITY TRANSFORMER, A NEW 2000A, 277/480V, 3Ø SWITCHBOARD AND INFRASTRUCTURE FOR A NEW OFOT WIRELESS INDUCTION VEHICLE CHARGING STATION.</p>	<p>OWNER: NEVADA COUNTY CONNECTS + NEVADA COUNTY NOW CONTACT: ROBIN VAN VALKENBURGH PHONE: 530-470-2833 EMAIL: robin.vanvalkenburgh@nevadacountyca.gov</p> <p>ELECTRICAL: THE ENGINEERING ENTERPRISE CONTACT: OWEN QUAIL PHONE: 530-886-8556 EMAIL: owen.quail@engent.com</p>	<p>ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:</p> <p>STATE OF CALIFORNIA CODE OF REGULATIONS (CCR) 2019 TITLE 24 BUILDING CODE</p> <p>PART 2. CALIFORNIA BUILDING CODE (CBC) PART 3. CALIFORNIA ELECTRICAL CODE (CEC) PART 4. CALIFORNIA MECHANICAL CODE (CMC) PART 9 CALIFORNIA FIRE CODE (CFC)</p>	<p style="text-align: center;">ELECTRICAL SHEET INDEX</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">SHEET NO.</th> <th style="width: 85%;">SHEET NAME</th> </tr> </thead> <tbody> <tr> <td>G0.1</td> <td>COVER SHEET</td> </tr> <tr> <td>E0.01</td> <td>SYMBOLS, SHEET INDEX, SCHEDULES AND DETAILS</td> </tr> <tr> <td>E1.01</td> <td>SITE PLAN</td> </tr> <tr> <td>E1.02</td> <td>ENLARGED SITE PLANS</td> </tr> <tr> <td>E2.01</td> <td>DIAGRAMS</td> </tr> </tbody> </table>	SHEET NO.	SHEET NAME	G0.1	COVER SHEET	E0.01	SYMBOLS, SHEET INDEX, SCHEDULES AND DETAILS	E1.01	SITE PLAN	E1.02	ENLARGED SITE PLANS	E2.01	DIAGRAMS
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E1.01	SITE PLAN														
E1.02	ENLARGED SITE PLANS														
E2.01	DIAGRAMS														
<p style="text-align: center;">VICINITY MAP</p>	<p style="text-align: center;">SITE MAP</p>														

GRASS VALLEY - TINLOY STREET TRANSIT CENTER - EV BUS CHARGING STATION

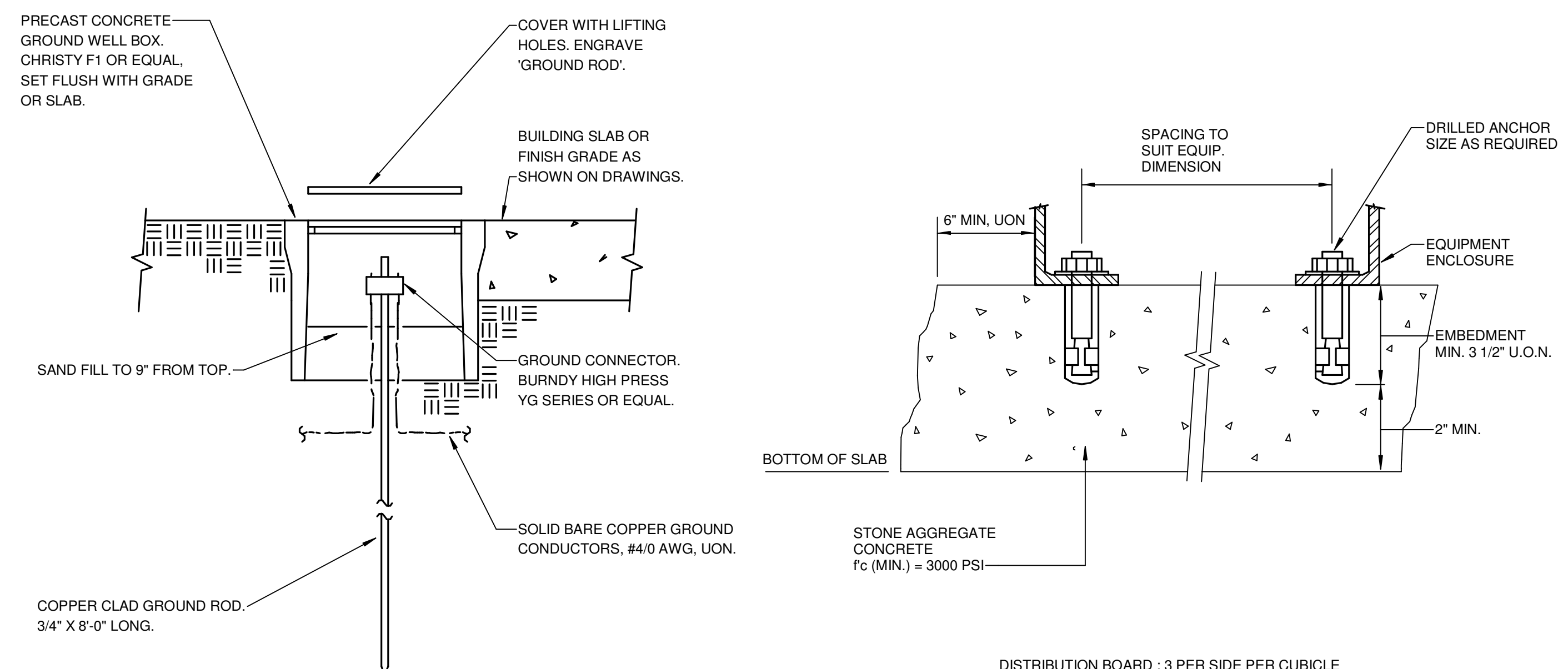
STATE RT 20/49
GRASS VALLEY, CA 95945

REVISIONS

#	DESCRIPTION	DATE

DESIGNER: TEE
 SCALE: 1" = 100'-0"
 DATE: 11/13/2024
 TITLE:
COVER SHEET

DRAWING NO.
G0.1



2 GROUND ROD WELL
SCALE: NTS

3 EQUIPMENT ANCHORING
SCALE: NTS

Switchboard: (N) MSB-1

Location: UTX
Supply From: UTX
Mounting: PAD
Enclosure: NDR

Volts: 277/480
Phases: 3
Wires: 4

A.I.C. Rating: 65KAIC
Main Type: MCB
Main Rating: 2000 A
MCB Rating: 2000 A

##	Circuit Description	Load	Remarks
1	EVCS-1	350.2 kVA	
2	EVCS-2	350.2 kVA	
3	EVCS-3	350.2 kVA	
Total Load:		1050.6 kVA	
Total Amps:		1263.68 A	

Load Classification	Conn. Load	Demand Factor	Est. Demand	Panel Totals
Other	1050.6 kVA	100.00%	1050.6 kVA	Connected Load: 1050.6 kVA Connected Amps: 1263.68 A Est. Demand Load: 1050.6 kVA Est. Demand Amps: 1263.68 A

Notes:
A. ALL BREAKERS TO BE LOCKABLE.
B. REFER TO POWER ONE LINE FOR BREAKER REQUIREMENTS.

FEEDER SCHEDULE

FEEDER SCHEDULE GENERAL NOTES

- COPPER FEEDER SIZES SHOWN IN THIS SCHEDULE ARE BASED ON CONDUCTORS WITH TH-HN/THWN-2 INSULATION IN EMT CONDUIT.
- ALUMINUM FEEDER SIZES SHOWN IN THIS SCHEDULE ARE BASED ON CONDUCTORS WITH XHHW-2 INSULATION IN EMT CONDUIT.
- FEEDER SIZES SHOWN IN THIS SCHEDULE ARE BASED ON AN AMBIENT TEMPERATURE OF 30 DEGREES C (86 DEGREES F).
- FEEDERS CONSISTING OF MULTIPLE SETS OF CONDUCTORS AND CONDUITS ARE TO BE PROVIDED WITH THE INDICATED SIZE GROUND CONDUCTOR IN EACH CONDUIT.
- PER NEC ARTICLE 110.14, ALL FEEDERS SIZED AT #2 AWG OR LESS ARE CALCULATED PER 60 DEGREE TABLE. FEEDERS GREATER THAN #2 AWG ARE RATED 75 DEGREE.

FEEDER SCHEDULE REMARKS

- OVERSIZED 150% NEUTRAL, SUITABLE FOR SERVICE FROM K-13 RATED TRANSFORMERS.
- FEEDER APPROVED FOR USE WITH SEPARATELY DERIVED SYSTEM; GROUNDING AS REQUIRED BY NEC ARTICLES 240 AND 250.
- FEEDER GROUND AND BONDING JUMPER SHALL HAVE AN AREA NOT LESS THAN 12.5% OF THE AREA OF THE LARGEST PHASE CONDUCTOR.
- INCREASE CONDUIT TO THE NEXT LARGER TRADE SIZE WHEN USING SCHEDULE 40 OR 60 PVC CONDUIT.
- PER NEC SECTION 240.4(B), FOR OVERCURRENT DEVICES RATED 800A OR LESS, THE NEXT HIGHER STANDARD OVERCURRENT DEVICE RATING (ABOVE THE AMPACITY OF THE CONDUCTORS) CAN BE USED. RULE CAN NOT BE APPLIED IF 100% RATED BREAKERS ARE USED.
- PER NEC 240.21(C), THE PROVISIONS OF 240.4(B) SHALL NOT BE PERMITTED FOR TRANSFORMER SECONDARY CONDUCTORS.

FEEDER TAG	FEEDER DESCRIPTION	CONDUIT	CONDUCTORS		SEPARATELY DERIVED SYSTEM		REMARKS
			PHASE/NEUTRAL	GROUND	GROUNDING ELECTRODE	BONDING JUMPER	
302	30 AMP, 2 WIRE	1-0.75"	2 #10 CU	2 #10 CU			
1253	130 AMP, 3 WIRE	1-1.50"	3 #1 CU	1 #6 CU			

NUMBERED SHEET NOTES

- PRIMARY CONDUIT AND WIRE BY PG&E.
- TRANSFORMER PAD AND TRANSFORMER BY PG&E.
- SECONDARY CONDUIT AND WIRE BY PG&E.
- SPACE PROVISIONS FOR FOUR 125A/30 AND ONE 20A/10 CIRCUIT BREAKERS FOR FUTURE EVCS.

POWER DISTRIBUTION

- SWITCHGEAR, SWITCHBOARD, DISTRIBUTION BOARD, SUBSTATION OR MOTOR CONTROL CENTER, FLOOR MOUNTED. DOUBLE LINE INDICATES FRONT FACE OF GEAR.
- ELECTRIC MOTOR, NIEC. MAKE POWER CONNECTIONS ONLY AS NOTED ON PLANS.
- PULLBOX OR HANDHOLE, SIZE AND TYPE AS NOTED ON PLANS.
- SAFETY DISCONNECT SWITCH, 3-POLE, UON. ADJACENT NUMBER INDICATES FUSE SIZE WHEN APPLICABLE. LABELING CONVENTION AS FOLLOWS:
A: 30A, NON-FUSED
B: 60A, NON-FUSED
C: 100A, NON-FUSED
D: 200A, NON-FUSED
E: 400A, NON-FUSED
F: 600A, NON-FUSED
G: 800A, NON-FUSED
AF: 30A, FUSED
BF: 60A, FUSED
CF: 100A, FUSED
DF: 200A, FUSED
EF: 400A, FUSED
FF: 600A, FUSED
GF: 800A, FUSED
- DRIVEN GROUND ROD.
- DRIVEN GROUND ROD IN GROUND WELL WITH COVER.
- ELECTRICAL VEHICLE CHARGING STATION, WALL MOUNTED.
- ELECTRICAL VEHICLE CHARGING STATION, PEDESTAL MOUNTED.
- CABLE TO BUS TERMINATION LUGS.
- BOLTED PRESSURE OR HIGH PRESSURE CONTACT OR FUSED SWITCHES.
- GROUP MOUNTED MOLDED CASE CIRCUIT BREAKER.
- INDIVIDUALLY FIXED MOUNTED INSULATED-CASE OR POWER CIRCUIT BREAKER.
- INDIVIDUALLY DRAW-OUT MOUNTED INSULATED-CASE OR POWER CIRCUIT BREAKER.
- MEDIUM-VOLTAGE, INDIVIDUALLY DRAW-OUT MOUNTED VACUUM CIRCUIT BREAKER.
- MEDIUM-VOLTAGE LOAD INTERRUPTER SWITCH, FUSED TYPE.
- MEDIUM-VOLTAGE LOAD INTERRUPTER SWITCH, NON-FUSED TYPE.
- GROUND FAULT RELAY INTEGRAL WITH CIRCUIT BREAKER.
- ELECTRICALLY OPERATED INTEGRAL.
- SHUNT-TRIP INTEGRAL WITH OVERCURRENT PROTECTION DEVICES.
- KIRK-KEY INTERLOCK INTEGRAL WITH OVERCURRENT PROTECTION DEVICES. ADJACENT NUMBER CORRESPONDS WITH DEVICE INTERLOCK.
- PRIVATE METER, MOUNTED INTEGRAL WITH OVERCURRENT PROTECTION OR SEPARATE WITHIN SWITCHGEAR.
- UTILITY METER, MOUNTED IN UTILITY METER SECTION OF SWITCHGEAR.
- PRIVATE METER, MOUNTED IN SEPARATE ENCLOSURE FROM SWITCHGEAR.
- GROUND FAULT RELAY WITH SHUNT TRIP.
- GROUND FAULT ALARM, NO SHUNT TRIP.
- TRANSFORMER.
- CONNECTION TO GROUND.
- CURRENT TRANSFORMERS.
- POTENTIAL TRANSFORMERS.
- BATTERIES.
- NEUTRAL SERVICE DISCONNECT LINK.
- SURGE PROTECTION DEVICE, 'SPD'.
- CONTROL CONTACTOR.
- NORMALLY OPEN CONTACT.
- NORMALLY CLOSED CONTACT.
- DIGITAL METERING UNIT.
- GROUND BUS.
- NEUTRAL BUS.

RACEWAYS

- CONDUIT RUN EXPOSED ON WALL OR CEILING.
- CONDUIT RUN CONCEALED IN SLAB, UNDER SLAB OR UNDERGROUND.
- CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
- CONDUIT HOMERUN, CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET. HOMERUN CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT TURNED UP, CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT TURNED DOWN, CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT CAPPED OR STUBBED WITH INSULATED BUSHINGS, CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
- CONDUIT SLEEVE, WITH INSULATING BUSHINGS.
- FLEXIBLE METALLIC CONDUIT, EQUIPMENT CONNECTION.
- CROSSMARKS ON BRANCH CIRCUIT CONDUIT RUNS INDICATE THE QUANTITY OF CONDUCTORS AS FOLLOWS (GROUND CONDUCTORS ARE NOT NOTED, BUT SHOULD BE INCLUDED IN EVERY CONDUIT WITH POWER CONDUCTORS):
1. NO CROSSMARKS INDICATES TWO #12 AWG CONDUCTORS, UON.
2. THREE TO SIX CROSSMARKS INDICATES THE QUANTITY OF #12 AWG CONDUCTORS, UON.
3. SEVEN OR MORE CROSSMARKS INDICATES THE QUANTITY OF #10 AWG CONDUCTORS, UON.

SYMBOLS LIST

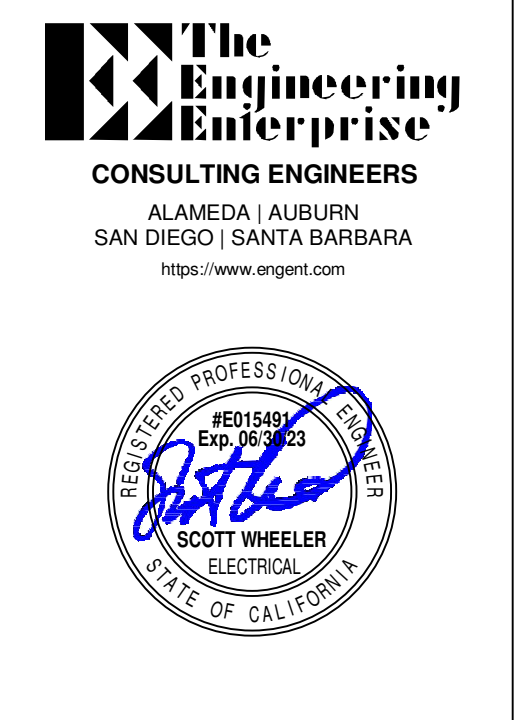
- PROJECT GENERAL NOTES**
- THE EXISTING CONDITIONS INDICATED IN THIS DRAWING SET WERE DEVELOPED FROM VARIOUS SOURCES WHICH WERE NOT ALL FIELD VERIFIED AND NOT ALL CONDITIONS ARE SHOWN. LOCATIONS, ROUTING, ELEVATIONS, SIZES, ETC. ARE SHOWN SCHEMATICALLY. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
 - THE CONTRACTOR SHALL VISIT THE JOBSITE AND VERIFY ALL EXISTING CONDITIONS BEFORE CONSTRUCTION AND SHALL INCLUDE IN THE BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS, SPECIFICATIONS AND ALL APPLICABLE CODES.
 - CONTRACTOR SHALL REMOVE ALL LEFT OVER CONDUIT, WIRE, SCRAPS, ETC. AND LEAVE PREMISES CLEAN AND FREE OF TRASH OR DEBRIS RESULTING FROM THEIR WORK.
 - THERE SHALL BE A MINIMUM OF 2" OF COVER OVER UNDERGROUND CONDUITS, UON. INCLUDE A MINIMUM 12" SEPARATION BETWEEN ALL LOW VOLTAGE AND LINE VOLTAGE RACEWAYS. INSTALL A WARNING/MARKER TAPE 12 INCHES OVER THE CONDUIT.
 - MINIMUM SIZE CONDUIT USED ON THE SITE SHALL BE 1.0" C, WITH MINIMUM #10 CONDUCTORS, UON.
 - CONTRACTOR SHALL SIZE ALL JUNCTION/PULLBOXES PER THE MINIMUM CODE REQUIREMENTS OF NEC ARTICLE 314, WHEN NOT INDICATED ON THE PLANS.
 - ALL CONDUCTORS ON THIS PROJECT SHALL BE COPPER.
 - FEEDER AND BRANCH CIRCUIT HOMERUNS SHALL BE INSTALLED IN CONDUIT.
 - INSTALL AND CONNECT A CODE SIZED INSULATED OR BARE COPPER GROUNDING CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDERS.
 - PROVIDE INSULATING BUSHINGS OR INSULATED THROAT ON THE ENDS OF ALL EMPTY CONDUIT SLEEVES AND INSTALL A POLYETHYLENE PULLING ROPE.
 - WHERE CIRCUITS ARE SHOWN ON THE DRAWINGS WITH HOMERUNS THAT SHARE NEUTRAL CONDUCTORS THE CONTRACTOR SHALL PROVIDE HANDLE TIES BETWEEN ALL BRANCH CIRCUIT BREAKER LOADS WHICH SHARE A NEUTRAL.
 - ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHER-PROTECTED AND LISTED FOR EXTERIOR USE.
 - PROVIDE TYPE WRITTEN PANEL SCHEDULES.
 - PROVIDE ENGRAVED NAMEPLATES FOR ELECTRICAL BOARDS, DISCONNECTS, AND SWITCHGEAR.
 - ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE (CEC).
 - CONTRACTOR IS RESPONSIBLE TO SUBMIT REVISED LAYOUT OF EQUIPMENT IN ELECTRICAL SPACES FOR WRITTEN APPROVAL BY ENGINEER IF PROPOSED INSTALLATION LAYOUT DIFFERS FROM CONSTRUCTION DOCUMENTS. SUBMISSION MUST BE APPROVED PRIOR TO RELEASE OF ORDER FOR EQUIPMENT AND PRIOR TO INSTALLATION.
 - REQUIRED ELECTRICAL EQUIPMENT WORKING SPACE DEPTH SHALL NOT BE LESS THAN THAT INDICATED IN CEC TABLE 110.26. THE WIDTH OF THE EQUIPMENT OR 30", WHICHEVER IS GREATER. THIS REQUIREMENT ALSO APPLIES TO DISCONNECT SWITCHES.
 - ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITERS LABORATORIES AND BEAR THEIR LABEL, OR ETL.
 - PROVIDE ALL NEW BOARDS, BREAKERS, SWITCHES, ETC. IN ACCORDANCE WITH THE CONTRACTOR PREPARED POWER SYSTEM STUDY. NO EQUIPMENT SHALL BE PURCHASED, INSTALLED, AND/OR RELEASED PRIOR TO ENGINEER REVIEW AND APPROVAL OF THE POWER SYSTEM STUDY.
 - CONTRACTOR SHALL PROVIDE ARC FLASH LABELS FOR ALL ELECTRICAL EQUIPMENT WITHIN THE SCOPE OF THIS PROJECT. THESE LABELS SHALL BE GENERATED BY THE CONTRACTOR FROM THE POWER SYSTEM STUDY AND SUBMITTED WITH THE POWER SYSTEM STUDY SUBMITTAL FOR ENGINEER REVIEW AND APPROVAL. THIS INCLUDES ALL FIELD MARKING OF KAIC VALUES ON EXISTING OR NEW BOARDS PER THE CEC.
 - WIRING SPACE IN PANELBOARDS, DISTRIBUTION PANELS AND SWITCHBOARDS SHALL BE DEDICATED TO CONDUCTORS TERMINATED IN THAT ENCLOSURE. PANELBOARDS, DISTRIBUTION PANELS AND SWITCHBOARDS SHALL NOT BE USED AS PULL AND/OR SPLICE BOXES FOR CONDUCTORS THAT TERMINATE IN OTHER ENCLOSURES. DO NOT SPLICE CONDUCTORS IN EQUIPMENT.
 - CONTRACTOR SHALL PREPARE RED LINED AS-BUILT DOCUMENTS REPRESENTING THE ACTUAL FIELD ROUTINGS AND INSTALLATION LOCATIONS FOR ALL ITEMS ON THIS PROJECT.
 - WORK PERFORMED FROM THESE DRAWINGS SHALL ALSO COMPLY WITH THE PROJECT SPECIFICATIONS. IN THE EVENT THAT THERE IS A CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL TAKE PRECEDENCE.
 - ALL ELECTRICAL EQUIPMENT SHALL HAVE A HOUSEKEEPING PAD.
 - CONTRACTOR SHALL PREPARE RED LINED AS-BUILT DOCUMENTS REPRESENTING THE ACTUAL FIELD ROUTINGS AND INSTALLATION LOCATIONS FOR ALL ITEMS ON THIS PROJECT.
 - CONDUIT ROUTING (WHERE SHOWN) IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS AND THE COORDINATION REQUIREMENTS OF OTHER TRADES.

CONVENTIONS

- NUMBERED NOTE, APPLIES TO ALL DRAWINGS.
- NUMBERED SHEET NOTE, APPLIES TO DRAWING CONTAINING NOTES ONLY.
- OVERCURRENT PROTECTIVE DEVICE SPACE IDENTIFICATION TAG, REFERS TO LOCATION OF PROTECTIVE OR CONTROL DEVICE WITHIN SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS, ETC.
- EQUIPMENT IDENTIFICATION TAG, ITEM FURNISHED AND INSTALLED UNDER ANOTHER SECTION AND WIRED UNDER THIS SECTION.
- FEEDER SIZE, REFER TO FEEDER SCHEDULE.
- DETAIL REFERENCE: DETAIL DESIGNATION SHEET NUMBER
- LUMINAIRE IDENTIFICATION TAG: LUMINAIRE TYPE QUANTITY
- UNDERGROUND CONDUIT DESIGNATION: CONDUIT SIZE IN INCHES CONDUIT SYSTEM DESIGNATION P: PRIMARY POWER S: SECONDARY POWER T: TELECOMMUNICATIONS QUANTITY OF CONDUITS

ABBREVIATIONS

A	AMPERES	LCP	LIGHTING CONTROL PANEL
AFI	ARC FAULT CIRCUIT INTERRUPTER	MBGB	MAIN BUILDING GROUND BUS
AF	AMPERE OVERCURRENT FRAME SIZE (WHEN APPLIED TO CIRCUIT BREAKERS) OR AMPERE FUSE SIZE (WHEN APPLIED TO FUSES)	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AIC	ASYMMETRIC INTERRUPTING CURRENT	MLO	MAIN LUGS ONLY
AL	ALUMINUM	MT	EMPTY CONDUIT
AT	AMPERE OVERCURRENT TRIP (WHEN APPLIED TO CIRCUIT BREAKERS)	MTS	MANUAL TRANSFER SWITCH
AV	AUDIO / VIDEO	(N)	NEW
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
BAS	BUILDING AUTOMATION SYSTEM	NF	NON-FUSED
BPS	BOLTED PRESSURE CONTACT SWITCH	NIEC	NOT IN ELECTRICAL CONTRACT
C	CONDUIT	NL	NIGHT LIGHT, UNSWITCHED
CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY OPEN
CEC	CALIFORNIA ELECTRICAL CODE	NTS	NOT TO SCALE
CL	CURRENT LIMITING CIRCUIT BREAKER OR FUSE	OC	ON CENTER
CP	CIRCULATION PUMP	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CT	CURRENT TRANSFORMER	OFOI	OWNER FURNISHED OWNER INSTALLED
CU	COPPER	PA	PUBLIC ADDRESS
DF	DRINKING FOUNTAIN	PDZ	PRIMARY DAYLIGHT ZONE
(E)	EXISTING TO REMAIN	PAN	PANEL
EC	ELECTRICAL CONTRACTOR	PQM	POWER QUALITY METER
EF	EXHAUST FAN	PT	POTENTIAL TRANSFORMER
EP	EXPLOSION PROOF	PVC	POLYVINYL CHLORIDE
EPO	EMERGENCY POWER OFF	(R)	EXISTING TO BE REMOVED
EMT	ELECTRICAL METALLIC TUBING	(RR)	REMOVE AND RELOCATE
EWB	ELECTRIC WATER HEATER	SAD	SEE ARCHITECTURAL DRAWINGS
F	FUSED	TC	TIME CLOCK
(F)	FUTURE	TP	TWISTED-PAIR
FACP	FIRE ALARM CONTROL PANEL	SDZ	SECONDARY DAYLIGHT ZONE
FFCP	FIREMAN'S FAN CONTROL PANEL	SPD	SURGE PROTECTION DEVICE
FLA	FULL LOAD AMPERES	TX	TRANSFORMER
FMC	FLEXIBLE METAL CONDUIT	TYP	TYPICAL
FSD	FIRE/SMOKE DAMPER	UON	UNLESS OTHERWISE NOTED
FRAP	FIREMAN'S REMOTE ANNUNCIATOR PANEL	UPS	UNINTERRUPTIBLE POWER SUPPLY
G	GROUND	V	VOLTS
GB	GROUND BUS	VA	VOLTS-AMPS
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VFD	VARIABLE FREQUENCY DRIVE
GND	GROUND	VM	VENDING MACHINE
GRAP	GENERATOR REMOTE ANNUNCIATOR PANEL	WAP	WIRELESS ACCESS POINT
GRC	GALVANIZED RIGID CONDUIT	WP	WEATHERPROOF
HNC	HOME NETWORK CABINET	2SP	TWO SPEED
HPC	HIGH PRESSURE CONTACT SWITCH	10	1-PHASE
IG	ISOLATED GROUND	30	3-PHASE
IMC	INTERMEDIATE METAL CONDUIT	1P	1-POLE
		2P	2-POLE
		3P	3-POLE
		3W	3-WIRE
		4W	4-WIRE



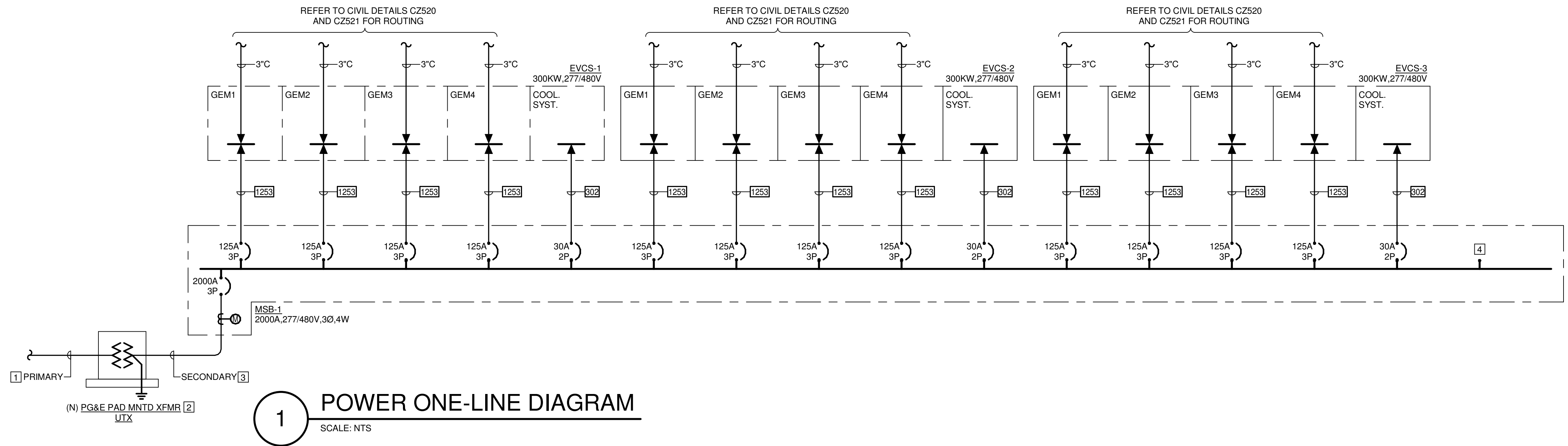
GRASS VALLEY - TINLOY STREET TRANSIT CENTER - EV BUS CHARGING STATION

STATE RT 20/49
GRASS VALLEY, CA 95945

REVISIONS

#	DESCRIPTION	DATE

DESIGNER:TEE
SCALE: NTS
DATE:11/13/2024
TITLE:
SYMBOLS, SHEET INDEX, SCHEDULES AND DETAILS
DRAWING NO.
E0.01



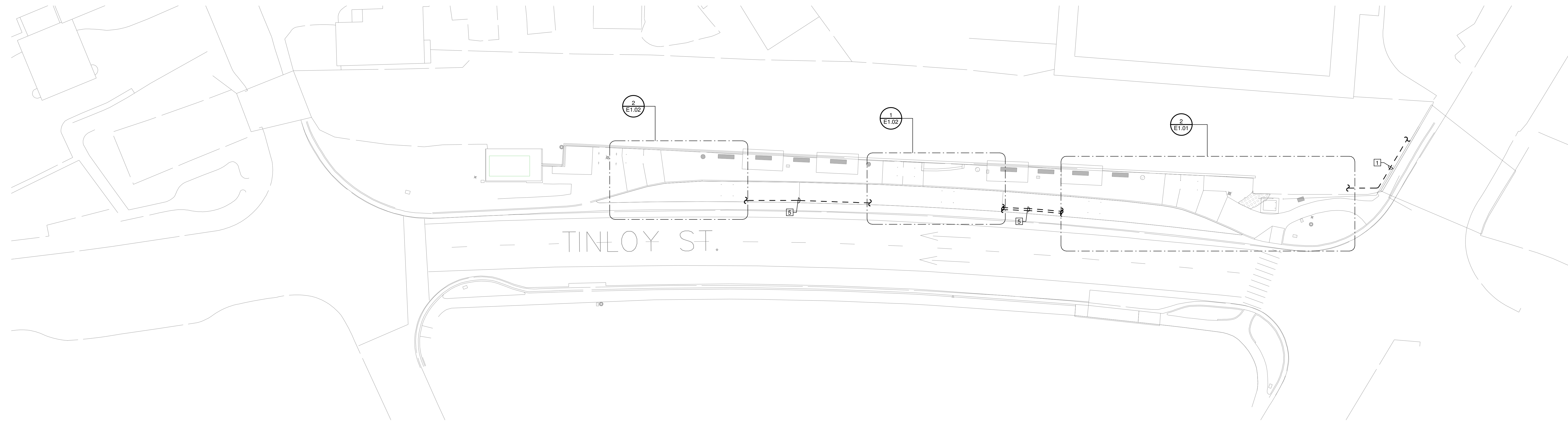
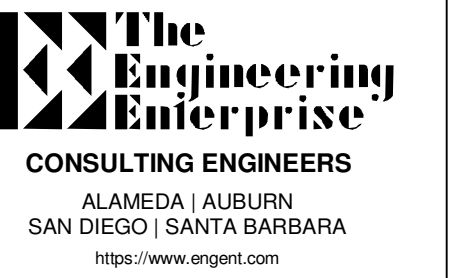
1 POWER ONE-LINE DIAGRAM
SCALE: NTS

GENERAL SHEET NOTES

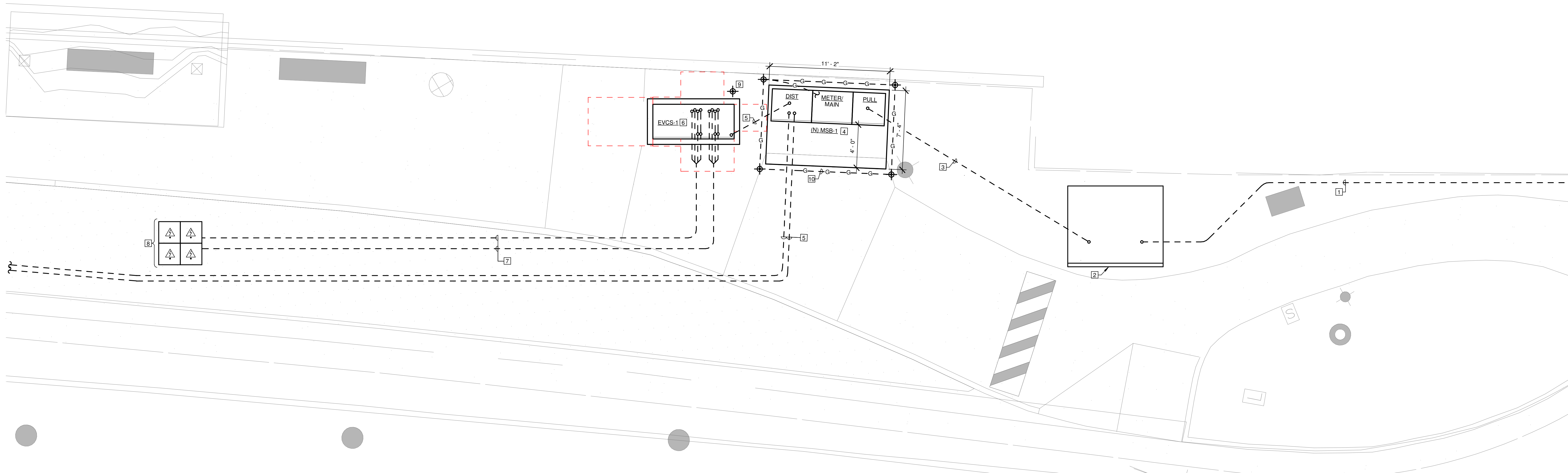
- A. SEE CIVIL DRAWINGS FOR CONCRETE TURNOUT AND SIDEWALK DETAILS.
- B. WALK ENTIRE ROUTE OF PROPOSED TRENCH WITH OWNER PRIOR TO COMMENCING WORK. ROUTE SHALL BE APPROVED PRIOR TO ANY WORK.

NUMBERED SHEET NOTES

- 1 PRIMARY CONDUIT & WIRE BY PG&E.
- 2 NEW UTILITY TRANSFORMER PAD BY PG&E.
- 3 SECONDARY CONDUIT & WIRE PER PG&E.
- 4 NEW OFCI MAIN SWITCHBOARD INSTALLED ON HOUSEKEEPING PAD, PER 3/E0.01. REFER TO POWER ONE-LINE DIAGRAM ON E0.01 FOR ADDITIONAL INFORMATION. CONTRACTOR TO PICK UP GEAR FROM CLIENT YARD AND TRANSPORT TO SITE.
- 5 REFER TO POWER ONE-LINE AND FEEDER SCHEDULE ON SHEET E0.01 FOR FEEDER SIZE. REFER TO DETAIL 2/C2502 FOR JOINT TRENCHING REQUIREMENTS. PROVIDE CONDUIT HUBS ON ENDS AT EVCS-1, EVCS-2 & EVCS-3.
- 6 NEW OFCI 300KW, 277/480V, 3P-4W (MOMENTUM DYNAMICS - G20-GA01-4) AUTOMATIC WIRELESS EV CHARGING SYSTEM. REFER TO MANUFACTURER INSTALLATION REQUIREMENTS FOR ADDITIONAL INFORMATION. REFER TO POWER ONE-LINE DIAGRAM ON E0.01 FOR ADDITIONAL INFORMATION. PROVIDE PAD PER CIVIL DRAWINGS.
- 7 PROVIDE 12 NEW 3" SCHEDULE 40 PVC CONDUITS TO WIRELESS CHARGING COILS. REFER TO CIVIL DRAWINGS FOR TRENCHING SPACING AND REQUIREMENTS. PULL OWNER FURNISHED CABLES AND HOSES THROUGH CONDUITS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. MANUFACTURER TO MAKE FINAL CONNECTIONS AND PERFORM COMMISSIONING.
- 8 NEW OFCI PRECAST WIRELESS CHARGING COILS INSTALLED PER MANUFACTURER REQUIREMENTS AND CIVIL DRAWINGS.
- 9 GROUND ROD IN WELL. REFER TO 2/E0.01 FOR GROUND ROD DETAIL. REFER TO 1/E2.01 FOR GROUNDING SCHEMATIC DIAGRAM.
- 10 PROVIDE NEW GROUNDING RING. REFER TO DETAIL 1/E2.01 FOR ADDITIONAL INFORMATION.



1 OVERALL ELECTRICAL SITE PLAN
SCALE: 3/8" = 1'-0"



2 ENLARGED PLAN
SCALE: 1/4" = 1'-0"

GRASS VALLEY - TINLOY STREET TRANSIT CENTER - EV BUS CHARGING STATION

STATE RT 20/49
GRASS VALLEY, CA 95945

#	DESCRIPTION	DATE

DESIGNER: TEE
SCALE: As indicated
DATE: 11/13/2024
TITLE: **SITE PLAN**

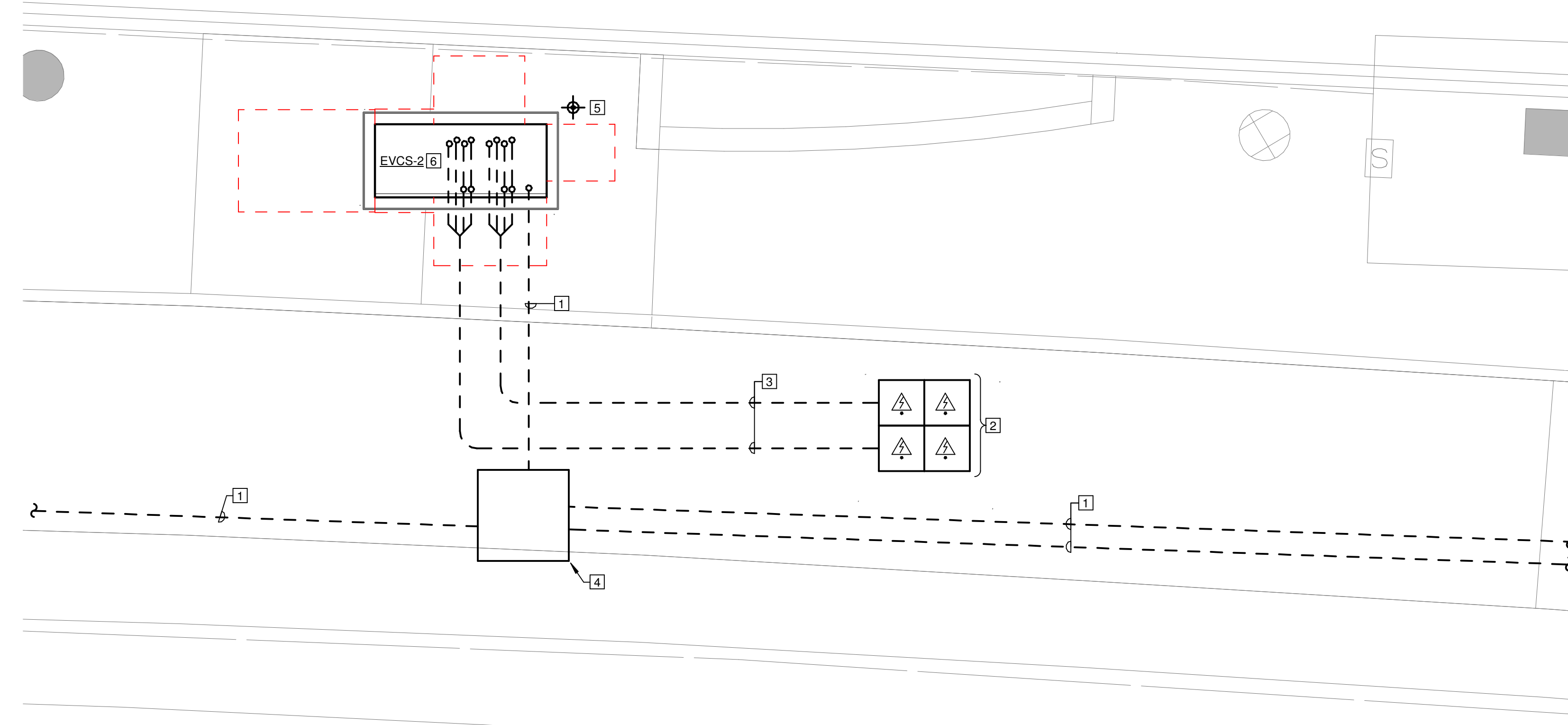
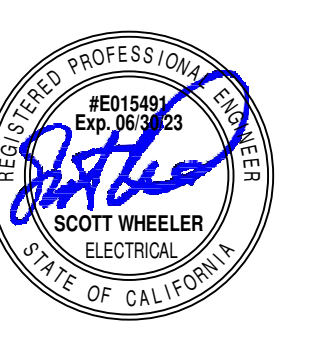
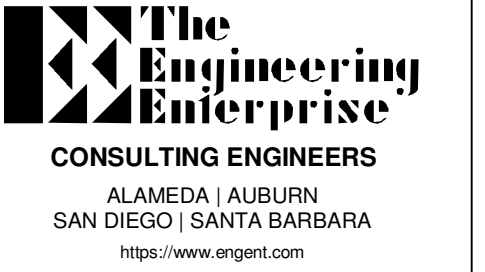
DRAWING NO. **E1.01**

GENERAL SHEET NOTES

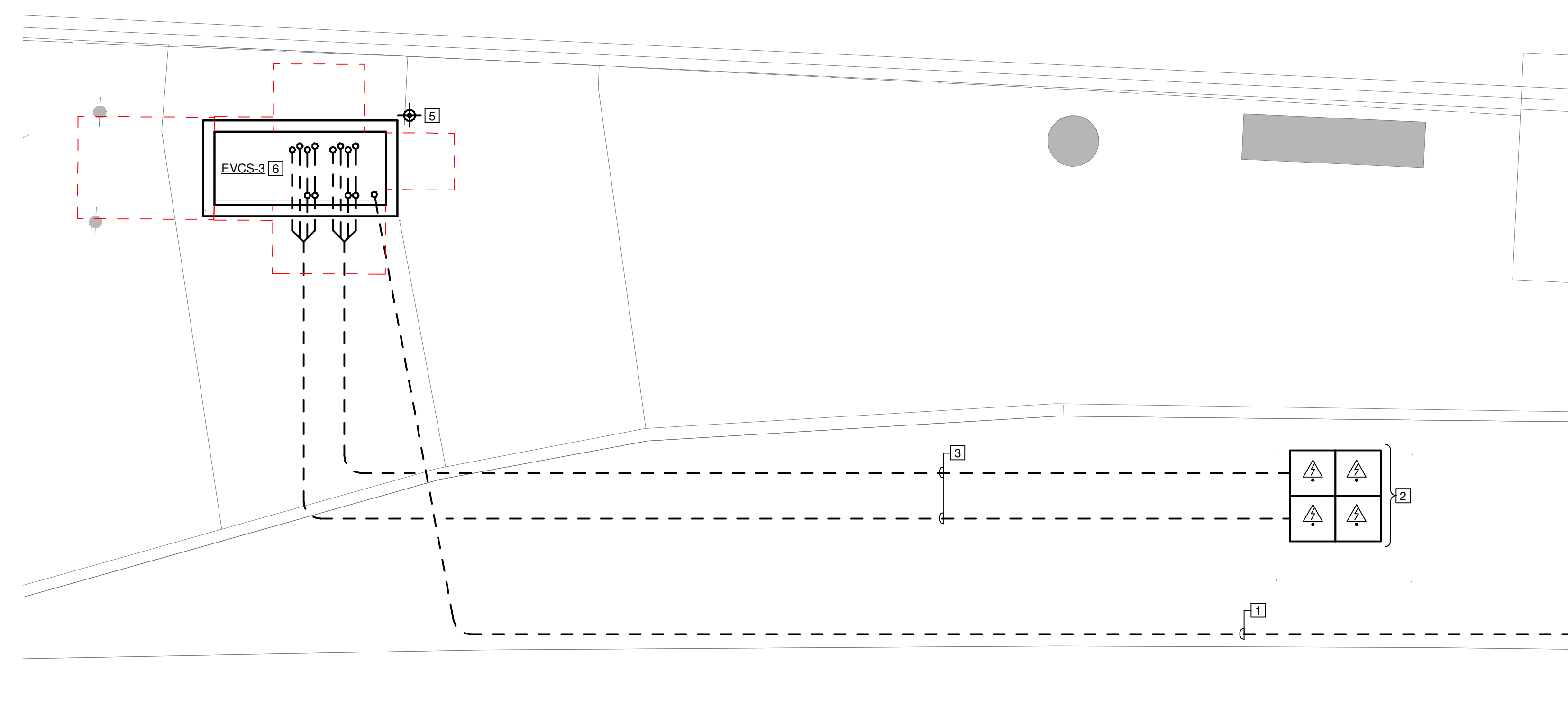
- A. SEE CIVIL DRAWINGS FOR CONCRETE TURNOUT AND SIDEWALK DETAILS.
- B. WALK ENTIRE ROUTE OF PROPOSED TRENCH WITH OWNER PRIOR TO COMMENCING WORK. ROUTE SHALL BE APPROVED PRIOR TO ANY WORK.

NUMBERED SHEET NOTES

- 1 REFER TO POWER ONE-LINE AND FEEDER SCHEDULE ON SHEET E0.01 FOR FEEDER SIZE. REFER TO DETAIL 2/CZ502 FOR JOINT TRENCHING REQUIREMENTS. PROVIDE CONDUIT HUBS ON ENDS AT EVCS-1, EVCS-2 & EVCS-3.
- 2 NEW OFCI PRECAST WIRELESS CHARGING COILS INSTALLED PER MANUFACTURER REQUIREMENTS AND CIVIL DRAWINGS.
- 3 PROVIDE 12 NEW 3.0" SCHEDULE 40 PVC CONDUITS TO WIRELESS CHARGING COILS. REFER TO CIVIL DRAWINGS FOR TRENCHING SPACING AND REQUIREMENTS. FULL OWNER FURNISHED CABLES AND HOSES THROUGH CONDUITS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. MANUFACTURER TO MAKE FINAL CONNECTIONS AND PERFORM COMMISSIONING.
- 4 NEW VAULT AND LID. REFER TO CIVIL DRAWING CP101 FOR ADDITIONAL INFORMATION.
- 5 GROUND ROD IN WELL. REFER TO 2/E0.01 FOR GROUND ROD DETAIL. REFER TO 4/E0.01 FOR GROUNDING TO EQUIPMENT PAD. REFER TO 1/E2.01 FOR GROUNDING SCHEMATIC DIAGRAM.
- 6 NEW OFCI 300KW, 277/480V, 3P, 4W (MOMENTUM DYNAMICS - G20-GA01-4) AUTOMATIC WIRELESS EV CHARGING SYSTEM. REFER TO MANUFACTURER INSTALLATION REQUIREMENTS FOR ADDITIONAL INFORMATION. REFER TO POWER ONE-LINE DIAGRAM ON E0.01 FOR ADDITIONAL INFORMATION. PROVIDE PAD PER CIVIL DRAWINGS.



1 ENLARGED PLAN
SCALE: 1/4" = 1'-0"



2 ENLARGED PLAN
SCALE: 1/4" = 1'-0"

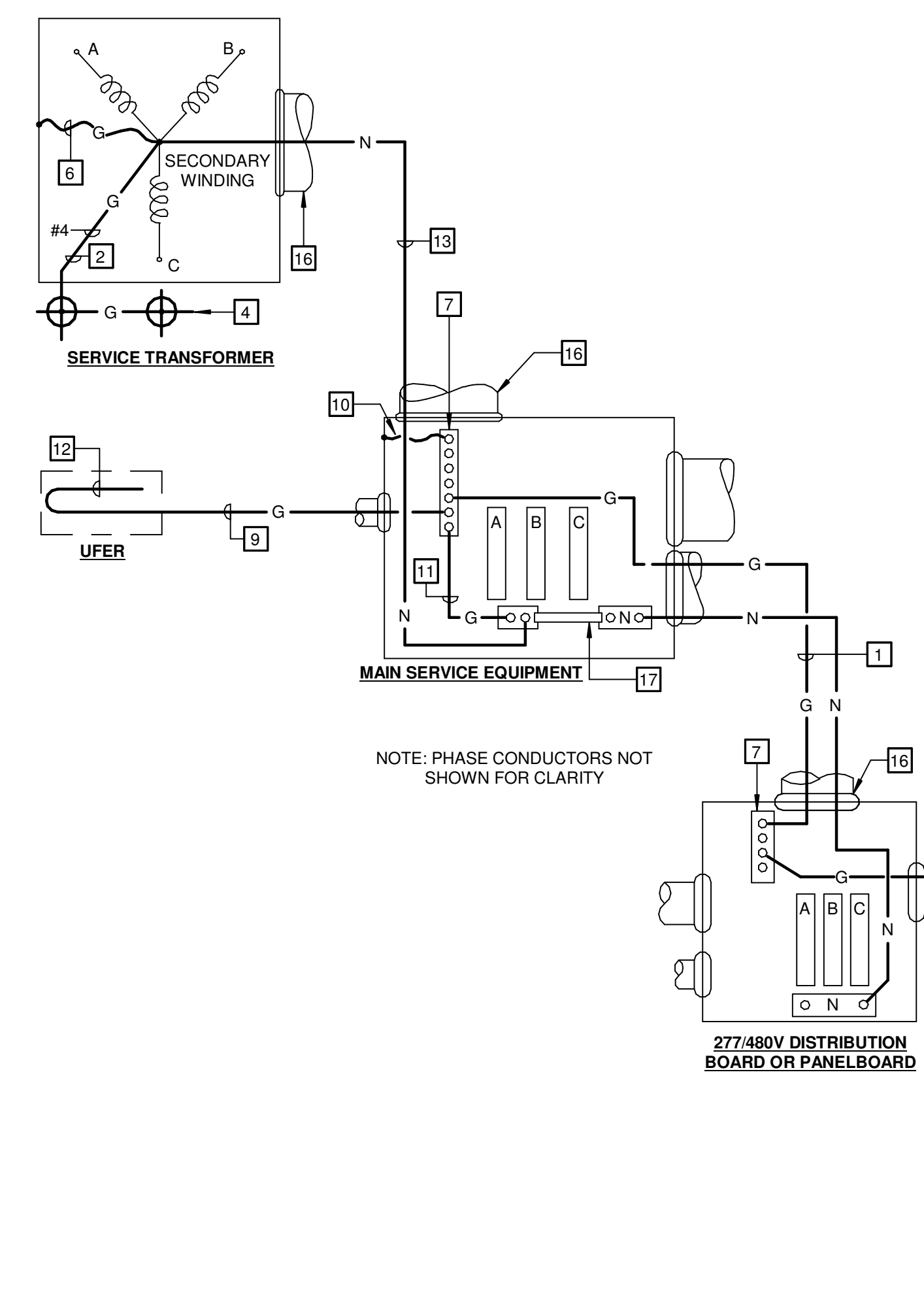
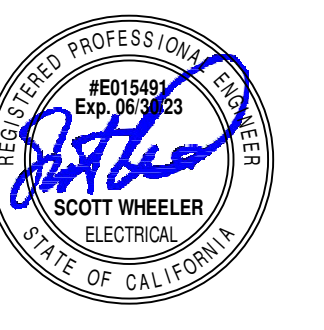
GRASS VALLEY - TINLOY STREET TRANSIT CENTER - EV BUS CHARGING STATION

STATE RT 20/49
GRASS VALLEY, CA 95945

#	DESCRIPTION	DATE

DESIGNER: Designer
SCALE: 1/4" = 1'-0"
DATE: 11/13/2024
TITLE:
ENLARGED SITE PLANS

DRAWING NO.
E1.02



- ### DETAIL NOTES
- 1 SIZE EQUIPMENT GROUNDING CONDUCTORS FOR FEEDER CIRCUITS PER FEEDER SCHEDULE OR IF NOT SHOWN PER CEC ARTICLE 250.
 - 2 UTILITY SERVICE GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.
 - 3 CONNECT EQUIPMENT GROUNDING CONDUCTORS TO GROUND LUG BONDED TO THE ENCLOSURE.
 - 4 GROUND ROD OR OTHER MADE ELECTRODES PER CEC ARTICLE 250 AND AS SHOWN ON DRAWINGS AND SPECIFICATIONS. PROVIDE 10'-0" MINIMUM BETWEEN RODS.
 - 6 SYSTEM BONDING JUMPER: SIZE PER CEC ARTICLE 250.
 - 7 EQUIPMENT COPPER GROUNDING BAR BONDED TO ENCLOSURE.
 - 9 GROUNDING ELECTRODE COPPER CONDUCTOR: #4/0 AWG MIN.
 - 10 EQUIPMENT BONDING JUMPER PER CEC ARTICLE 250.
 - 11 SERVICE MAIN BONDING JUMPER PER CEC ARTICLE 250.
 - 12 UFER GROUND.
 - 13 GROUNDED CONDUCTOR (NEUTRAL) BROUGHT TO SERVICE EQUIPMENT PER CEC ARTICLE 250.
 - 16 BOND PARALLEL METALLIC CONDUITS TOGETHER USING GROUNDING BUSHINGS AND ONE GROUNDING CONDUCTOR IDENTICAL IN SIZE TO GROUNDING CONDUCTOR IN EACH OF THE PARALLEL CONDUIT RUNS.
 - 17 REMOVABLE NEUTRAL DISCONNECT LINK.

1 GROUNDING SYSTEM SCHEMATIC WIRING DIAGRAM
SCALE: NTS

GRASS VALLEY - TINLOY STREET TRANSIT CENTER - EV BUS CHARGING STATION

STATE RT 20/49
GRASS VALLEY, CA 95945

#	DESCRIPTION	DATE

DESIGNER: Designer
SCALE: NTS
DATE: 11/13/2024
TITLE:
DIAGRAMS
DRAWING NO.
E2.01