

CITY OF ROSEVILLE CORPORATION YARD ZERO EMISSION BUS DEPOT PROJECT

CITY PERMIT #
EN21-0770 / CWJ#190747.

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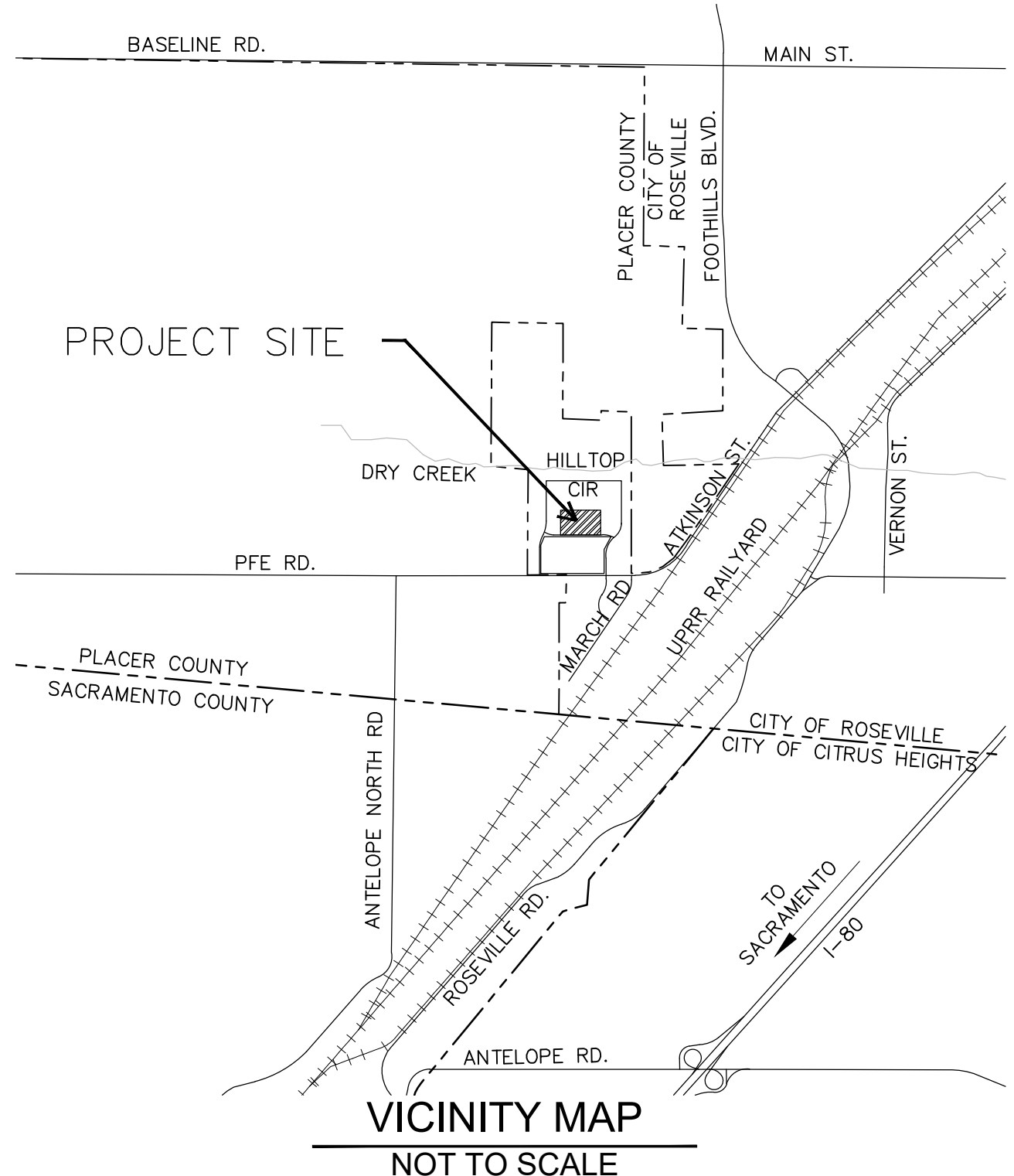
- LEGEND:**
- ▲ SURVEY CONTROL POINT
 - BOLLARD
 - ⊙ CLEANOUT
 - ⊠ ELECTRIC VAULT
 - ⊠ ELECTRIC PULL BOX
 - ⊠ FIRE DEPARTMENT CONNECTION
 - ▽ FIRE HYDRANT
 - ⊠ TRANSFORMER
 - ⊙ IRRIGATION CONTROL VALVE
 - ⊙ IRRIGATION VALVE
 - ⊙ SITE LIGHT
 - ⊙ POST INDICATOR VALVE
 - ⊙ STORM DRAIN MANHOLE
 - ▽ SIGN
 - ⊙ SEWER MANHOLE
 - ⊙ AREA DRAIN
 - TREE SYMBOL
 - TREE DRIP LINE
 - ⊙ WATER VALVE

- GENERAL NOTES:**
- IN ACCORDANCE WITH THE CITY'S NOISE ORDINANCE, THE HOURS OF PROJECT CONSTRUCTION SHALL BE LIMITED TO THE FOLLOWING: 7:00 A.M. TO 7:00 P.M. (MONDAY THROUGH FRIDAY) 8:00 A.M. TO 8:00 P.M. (SATURDAY, SUNDAY, AND HOLIDAYS).
 - PRIOR TO THE COMMENCEMENT OF GRADING OPERATIONS, THE CONTRACTOR SHALL IDENTIFY THE SITE WHERE THE EXCESS/BORROW EARTHEN MATERIAL SHALL BE IMPORTED/DEPOSITED. IF THE BORROW/DEPOSIT SITE IS WITHIN THE CITY OF ROSEVILLE, THE CONTRACTOR SHALL PRODUCE A REPORT ISSUED BY A GEOTECHNICAL ENGINEER TO VERIFY THAT THE EXPORTED MATERIALS ARE SUITABLE FOR THE INTENDED FILL, AND SHALL SHOW PROOF OF ALL APPROVED GRADING PLANS. HAUL ROUTES TO BE USED SHALL BE SPECIFIED.
 - PRIOR TO COMMENCEMENT OF GRADING ACTIVITIES, THE CONTRACTOR SHALL HAVE THE EXISTING DRY UTILITIES POT HOLED FOR VERIFICATION OF LOCATION AND DEPTH. AT SUCH TIME, POT HOLE DATA SHALL BE PROVIDED TO THE ENGINEER FOR DETERMINATION OF ADEQUATE CLEARANCE AND SEPARATION.

- APPLICABLE BUILDING DESIGN CODES :**
- 2019 CALIFORNIA ADMINISTRATIVE CODE (CAC)
 - 2019 CALIFORNIA BUILDING CODE (CBC)
 - 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC)
 - 2019 CALIFORNIA ELECTRICAL CODE (CEC)
 - 2019 CALIFORNIA ENERGY CODE (CEC PART 6)
 - 2019 CALIFORNIA FIRE CODE

- CBC SECTION 1705 - SPECIAL INSPECTION AND TESTING NOTES :**
- SPECIAL INSPECTIONS SHALL ADHERE TO THE FOLLOWING CBC REQUIREMENTS:
 - PLACEMENT OF CONCRETE REINFORCEMENT. CBC 1705.3
 - CONCRETE PLACEMENT AND STRENGTH TESTING. CBC 1705.3

- CGBSC 5.408 - WASTE MANAGEMENT PLAN REQUIREMENTS :**
- PURSUANT TO CGBSC SECTION 5.408, CONTRACTOR TO PROVIDE A WASTE MANAGEMENT PLAN VIA EMAIL TO SCST@Roseville.ca.us OR BY FAX TO 916-774-5798 PRIOR TO ISSUANCE OF PERMIT. THE CONTRACTOR SHALL CALL 916-774-5780 IF SEEKING ASSISTANCE OR CLARITY IN PREPARING THE WASTE MANAGEMENT PLAN.



CITY OF ROSEVILLE
DEPARTMENT OF PUBLIC WORKS

APPROVAL RECOMMENDED BY:

Stefanie A. Kemen Digitally signed by Stefanie A. Kemen
Date: 2022.01.27 13:59:50 -08'00'

STEFANIE KEMEN, P.E.
ENGINEERING MANAGER - RCE 72653 DATE

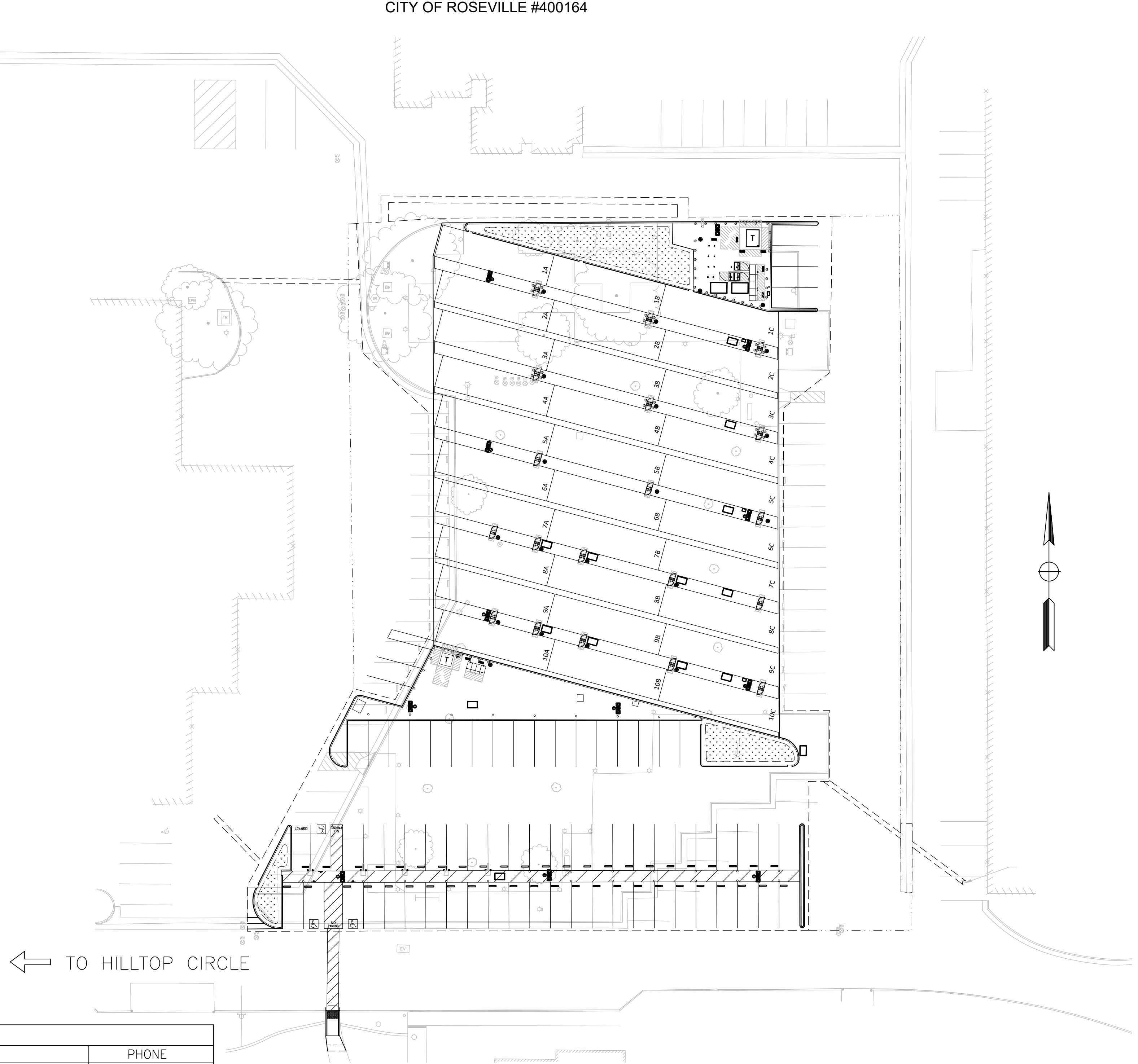
APPROVED BY:

Jason Shykowski Digitally signed by Jason Shykowski
Date: 2022.01.27 14:03:37 -08'00'

JASON SHYKOWSKI, P.E.
PUBLIC WORKS DIRECTOR - RCE 058234 DATE

SUBMITTED BY:

Brian G. Wright 1/26/22
BRIAN G. WRIGHT, P.E.
RESPONSIBLE ENGINEER IN CHARGE - RCE C59331
PSOMAS DATE



PROJECT LOCATION MAP
1" = 30'

UTILITY REPRESENTATIVES			
CONTACT	UTILITY	AGENCY	PHONE
JOEY MCKINNEY	ROSEVILLE ELECTRIC	CITY OF ROSEVILLE	(916) 774-5618
JASON RIZZI	ROSEVILLE FIRE DEPARTMENT	CITY OF ROSEVILLE	(916) 774-5823
SEAN BIGLEY	ENVIRONMENTAL UTILITIES, WATER	CITY OF ROSEVILLE	(916) 774-5750
DAN PRUDEN	ENVIRONMENTAL UTILITIES, SEWER	CITY OF ROSEVILLE	(916) 774-5750
JERRY DANKBAR	PUBLIC WORKS, DRAINAGE	CITY OF ROSEVILLE	(916) 746-5790
JOEL DE JONG	PARKS & RECREATION	CITY OF ROSEVILLE	(916) 223-7757
STEVE ABELIA/MARK DUBY	CABLE	COMCAST	(916) 830-6757
LARRY MONTGOMERY	CABLE & TELEPHONE	CONSOLIDATED COMMUNICATIONS	(916) 786-1217
KEVIN MYER	NATURAL GAS	PACIFIC GAS AND ELECTRIC	(916) 384-8092
ALEX SLABOSNITSKIY	TELECOMMUNICATIONS	WAVE BROADBAND	(916) 672-6853

← TO HILLTOP CIRCLE

Xrefs: ZEBD-C-BORDER\Zero Emission Bus Depot-38\1-TPG-HilltopBusDepot\ZEBD-C-TOPO-ADDITIONS\ZEBD-C-SITE Images: cropped COR block logo.tif

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. SEE NOTES
THE VERTICAL DATUM OF THIS MAPPING IS BASED ON THE CITY OF ROSEVILLE BENCHMARKS 65, 66, 85, AND 90, ADJUSTED TO NAVD88 BY ADDING A PROJECT FACTOR OF +2.16 FEET.

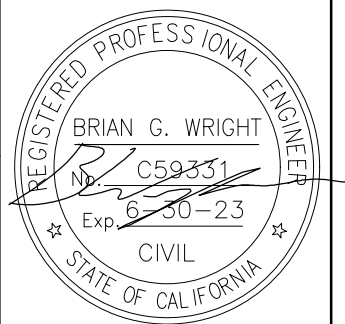
FIELD BOOK
SCALE
HORIZ. _____
VERT. _____

CITY# 400164



PSOMAS
1075 Creekside Ridge Way, Suite 200 Roseville, CA 95678 (916) 788-8122

DESIGNED BY: MEGAN BUCHE DATE 9/2021
CHECKED BY: BRIAN WRIGHT DATE 9/2021
DRAWN BY: CHARUNI KURUMBALAPITIYA DATE 9/2021



CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
TITLE SHEET

T-1
SHEET 1 OF 47

FIRE DEPARTMENT NOTES (CONTINUED):

14. PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN OCCUPANCIES AND LOCATIONS AS SET FORTH IN THE CALIFORNIA FIRE CODE AND AS REQUIRED BY THE CHIEF. PROVIDE A MINIMUM OF ONE (1) PORTABLE FIRE EXTINGUISHER WITHIN EACH TENANT SPACE. THE MAXIMUM TRAVEL DISTANCE TO THE FIRE EXTINGUISHER SHALL NOT EXCEED 75- FEET. THE MINIMUM RATING CLASSIFICATION FOR THE EXTINGUISHER SHALL BE NOT LESS THAN 2A-10B:C. THE MAXIMUM TRAVEL DISTANCE FROM ANY POINT IN A LIGHT HAZARD AREA OF CLASS A HAZARDS SHALL NOT BE MORE THAN 75 FEET FROM A CLASS 2A-10B:C. FIRE EXTINGUISHER AND ONE EXTINGUISHER SHALL BE PROVIDED FOR EACH 6,000 SQUARE FEET. THE MAXIMUM TRAVEL DISTANCE FROM ANY POINT IN AN ORDINARY HAZARD OF CLASS A HAZARDS AREA SHALL NOT BE MORE THAN 75 FEET AND ONE EXTINGUISHER SHALL BE PROVIDED FOR EACH 3,000 SQUARE FEET. THE MAXIMUM TRAVEL DISTANCE TO CLASS B EXTINGUISHERS IS EITHER 30 FEET OR 50 FEET DEPENDING UPON THE SIZE OF THE EXTINGUISHER AND THE CLASSIFICATION OF THE HAZARD. REFER TO UFC STANDARD NO. 10-1 FOR COMPLETE REQUIREMENTS. ALL PORTABLE FIRE EXTINGUISHERS SHALL HAVE A SERVICE TAG AFFIXED TO THEM SHOWING THAT THE EXTINGUISHER HAS BEEN SERVICED BY A CALIFORNIA STATE LICENSED FIRE EXTINGUISHER CONCERN. ALL FIRE EXTINGUISHERS SHALL BE ATTACHED TO A BRACKET OR WITHIN AN APPROVED CABINET. MAXIMUM DISTANCE FROM THE FLOOR SHALL NOT EXCEED 54-INCHES. SIGNAGE SHALL BE POSTED ABOVE THE EXTINGUISHER AND SHALL READ FIRE EXTINGUISHER.
15. THE REQUIRED MINIMUM FIRE FLOW FOR THE PROTECTION OF THE PROPOSED PROJECT IS ____ GALLONS PER MINUTE WITH 20 POUNDS PER SQUARE INCH RESIDUAL WATER PRESSURE REMAINING IN THE SYSTEM. A CHANGE IN ANY OF THE CONDITIONS MAY INCREASE THE REQUIRED FIRE FLOW.
16. ALL UNDERGROUND FIRE LINE SHALL BE HYDRAULICALLY PRESSURED AT 200 PSI FOR TWO-HOURS PER THE NFPA STANDARD FOR UNDERGROUND FIRE WATER LINE. AN INSPECTION SHALL BE REQUIRED TO WITNESS THE TEST WITH A SUBSEQUENT INSPECTION AFTER THE TWO-HOUR DURATION HAS EXPIRED.
17. TEMPORARY USE OF ON-SITE GENERATORS WITH OVER 60 GALLONS OF DIESEL FUEL SHALL REQUIRE A FIRE DEPARTMENT PERMIT AND MUST MEET THE REQUIREMENTS OF THE CHAPTER 6.95 OF THE HEALTH AND SAFETY CODE, THE ROSEVILLE FIRE DEPARTMENT AND THE NATIONAL FIRE CODES. CONTACT THE FIRE DEPARTMENT AT 916-774-5800 TO INITIATE THE PERMIT APPLICATION.
18. SECTION 10.6.2 OF NFPA 24 HAS BEEN AMENDED NOT TO ALLOW MECHANICAL JOINTS UNDER BUILDINGS. SEE CHAPTER 80 OF THE CALIFORNIA FIRE CODE, PAGE 519. PROVIDE DETAIL OF THE PROPOSED RISER AND UNDERGROUND DETAIL TO THE PAD.
19. CIVIL IMPROVEMENT PLANS SHALL BE RESUBMITTED IF IT HAS BEEN DETERMINED BY THE APPLICANT THAT AN ON-SITE FIRE PUMP WILL BE REQUIRED AS THE RESULT OF SUPPLYING 100 PSI RESIDUAL PRESSURE AT THE STANDPIPE ROOF OUTLET ACCORDANCE WITH NFPA 14, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEMS.
20. THE SUBMITTED PRIVATE UNDERGROUND FIRE LINE SHALL BE REVIEWED AND APPROVED BY THE ENVIRONMENTAL UTILITIES DEPARTMENT (EUD) IN CONJUNCTION WITH THE FIRE DEPARTMENT (RFD) PRIOR TO REQUESTING FOR THE REQUIRED INSPECTION FROM THE RFD. THE FIRE SPRINKLER PLANS WILL NOT BE APPROVED BY THE RFD UNTIL THE UNDERGROUND SERVICE LATERAL HAS BEEN INSPECTED AND ACCEPTED BY THE RFD.
21. ALL PROPOSED BURIED BOLTS SHALL BE COATED WITH A LISTED PRODUCT SUCH AS CHRISTY'S HD-50.
22. ACCORDING TO NFPA 13, 6.3.1.1.1, THE UNDERGROUND FIRE LINE CANNOT EXTEND INTO THE BUILDING FURTHER THAN 24 INCHES.
23. AN 18 AWG MINIMUM GAUGE TRACER WIRE SHALL BE INSTALLED ALONG ALL NON-METALLIC UNDERGROUND PIPING IN ACCORDANCE WITH SECTION 604 OF THE CALIFORNIA PLUMBING CODE. NOTATIONS SHALL BE MADE ON THE RESUBMITTAL.
24. FIRE DEPARTMENT CONNECTION(S) SHALL BE WITHIN 2- FEET OF BACK OF CURB OR BACK OF WALKWAY, AND SHALL REMAIN UNOBSTRUCTED AT ALL TIMES.
25. ALL FIRE DEPARTMENT CONNECTIONS SHALL BE LABELED WITH THE APPROPRIATE ADDRESS.
26. MECHANICAL JOINTS SHALL BE INSTALLED AT AREAS NOTED PER THE EBBA THRUST RESTRAINT DESIGN PROGRAM SPECIFICATIONS.
27. CONDUITS SHALL BE INSTALL AND AVAILABLE FOR FUTURE MONITORING OF ALL FIRE PROTECTION DEVICES.
28. ALL WORK SHALL BE INSPECTED BY THE FIRE DEPARTMENT PRIOR TO INSTALLING GROUND MATERIALS.

29. TO SCHEDULE A FIRE DEPARTMENT INSPECTION FOR ANY ON-SITE WORK, FOLLOW THE DIRECTIONS USING THE CITY OF ROSEVILLE CITIZEN PORTAL AT PERMITSONLINE.ROSEVILLE.CA.US.

GRADING NOTES:

1. GRADING SHALL CONFORM TO APPENDIX CHAPTER 33 UBC, LATEST EDITION, AND TO THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERING REPORT BY CRAWFORD & ASSOCIATES, INC.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS SPECIFIED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THIS PROJECT OR AS DETERMINED BY THE CITY INSPECTOR. THE SWPPP IS CONSIDERED A DYNAMIC DOCUMENT AND WILL CHANGE AS CONDITIONS WARRANT. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED AS SHOWN ON THE SWPPP PLAN.
3. ALL REAR LOT CORNER ELEVATIONS SHALL BE EQUAL TO OR GREATER THAN THE HIGHEST ADJACENT PAD GRADE UNLESS SPECIFICALLY SHOWN ON THESE PLANS AND APPROVED BY ENGINEERING DIVISION.
4. NON-POTABLE WATER SHALL BE SPRAYED ON ALL EXPOSED EARTH SURFACES DURING CLEARING GRADING, EARTH MOVING, AND OTHER SITE PREPARATION ACTIVITIES. THE EXPOSED EARTH SHALL BE WATERED THROUGHOUT THE DAY TO MINIMIZE DUST.
5. TARPAULINS OR OTHER EFFECTIVE COVERS SHALL BE USED ON ALL STOCKPILED EARTH MATERIAL AND ON HAUL TRUCKS TO MINIMIZE DUST.
6. THE CITY SHALL HAVE THE AUTHORITY TO STOP ALL GRADING OPERATIONS, IF, IN OPINION OF CITY STAFF, INADEQUATE DUST CONTROL MEASURES ARE BEING PRACTICED OR EXCESSIVE WIND CONDITIONS CONTRIBUTE TO FUGITIVE DUST EMISSIONS.
7. ADJACENT STREET FRONTAGES SHALL BE SWEEPED AT LEAST ONCE A DAY TO REMOVE SILT AND OTHER DIRT WHICH IS EVIDENT FROM CONSTRUCTION ACTIVITIES. REFER TO SCHEDULES WITHIN SWPPP.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING CONSTRUCTION VEHICLES LEAVING THE SITE ON A DAILY BASIS TO PREVENT DUST, SILT AND DIRT FROM BEING RELEASED OR TRACKED OFFSITE. REFER TO SWPPP FOR SPECIFIC REQUIRMENTS.
9. CONSTRUCTION SHALL STOP IF CULTURAL RESOURCES ARE SUSPECTED. IT IS POSSIBLE THAT PREVIOUS ACTIVITIES HAVE OBSCURED SURFACE EVIDENCE OF CULTURAL RESOURCES. IF SIGNS OF AN ARCHEOLOGICAL SITE, SUCH AS ANY UNUSUAL AMOUNTS OF STONE, BONE, OR SHELL, ARE UNCOVERED DURING GRADING OR OTHER CONSTRUCTION ACTIVITIES, WORK SHALL BE HALTED WITHIN 100 FEET OF THE FIND AND THE ROSEVILLE COMMUNITY DEVELOPMENT DEPARTMENT SHALL BE NOTIFIED. A QUALIFIED ARCHEOLOGIST SHALL BE CONSULTED FOR AN ON-SITE EVALUATION. THE ARCHEOLOGIST MAY REQUIRE ADDITIONAL MITIGATION.
10. SHOULD GRADING OPERATIONS UNCOVER HAZARDOUS MATERIALS, OR WHAT APPEARS TO BE HAZARDOUS MATERIALS, THE FIRE DEPARTMENT SHALL BE CONTACTED IMMEDIATELY AT (916) 774-5820. THE AREA, WHICH CONTAINS THE HAZARDOUS MATERIALS, SHALL BE MARKED OFF UNTIL AN INVESTIGATION BY A MEMBER OF THE FIRE DEPARTMENT IS CONDUCTED.
11. THE CONTRACTOR/DEVELOPER IS EXPECTED TO COMPLY WITH THE FUGITIVE DUST CONTROL REQUIREMENTS FROM THE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT: WWW.PLACER.CA.GOV/APCD
12. CONTAMINATED SOIL - DEVELOPER AGREES TO PROPERLY ADHERE TO ALL THEN CURRENT STATE AND FEDERAL REQUIREMENTS WHEN ANY EVIDENCE OF TOXIC, HAZARDOUS OR CONTAMINATED SOILS ARE ENCOUNTERED DURING ANY AND ALL EXCAVATION OR GRADING OPERATIONS, AND TO INDEMNIFY, DEFEND AND HOLD HARMLESS THE CITY OR ROSEVILLE, ITS OFFICERS, AGENTS AND EMPLOYEES, FROM ANY AND ALL LIABILITY, COSTS, CLAIMS, FEES, FINES, PENALTIES AND CLAIMS OF OR DAMAGE OF ANY TYPE WHATSOEVER. EXTRA COSTS FOR REMEDIATION AND/OR REMOVAL OF SOIL SHALL BE BOURN SOLELY BY THE DEVELOPER. THE PARTIES INTEND THAT THIS PROVISION BE BROADLY CONSTRUED.

SURVEY CONTROL NOTES:

1. THE PURPOSE OF THIS SURVEY IS TO MAP EXISTING TOPOGRAPHY AND PLANIMETRICS AT BUS DEPOT OFF OF HILLTOP CIRCLE. AS SPECIFIED BY PSOMAS TRANSPORTATION DEPARTMENT FOR THE ZERO EMISSION BUS DEPOT PROJECT
2. THE TOPOGRAPHY SHOWN HEREIN IS BASED ON A GROUND SURVEY COMPLETED JANUARY 15,2021.
3. UTILITIES SHOWN HEREON HAVE BEEN LOCATED AND DRAWN BASED ON VISIBLE SURFACE EVIDENCE ONLY, AND MUS TBE VERIFIED PRIOR TO CONSTRUCTION. THIS DOES NOT CONSTITUTE OF A UTILITY SURVEY.
4. THIS DOES NOT CONSTITUTE OF A TREE SURVEY, TREES AND DRIPLINES SHOWN HEREON HAVE BEEN LOCATED BASED ON VISIBLE SURFACE EVIDENCE ONLY. TREE SPECIES AND SIZES HAVE NOT BEEN VERIFIED BY A CERTIFIED ARBORIST.

STRIPING NOTES:

1. CONTRACTOR SHALL REMOVE ALL EXISTING NON-CONFORMING STRIPING (BY GRINDING) AND PAVEMENT MARKERS AND ALL EXISTING STRIPING THAT CONFLICTS WITH THE PROPOSED STRIPING. REMOVAL SHALL INCLUDE ALL TEMPORARY TRAFFIC STRIPES AND MARKINGS.
2. ALL PERMANENT PAINTED TRAFFIC STRIPES, ARROWS, AND PAVEMENT MARKINGS SHALL BE CONSTRUCTED WITH THERMOPLASTIC MATERIAL TO THE SPECIFICATIONS SET FORTH IN CHAPTER 3 OF THE LATEST EDITION OF THE CALIFORNIA MUTCD. NON-REFLECTIVE PAVEMENT MARKERS SHALL CONSIST OF CERAMIC MARKERS ONLY CONFORMING TO CHAPTER 3 OF THE LATEST EDITION OF THE CALIFORNIA MUTCD. THERMOPLASTIC MATERIAL SHALL BE APPLIED ONLY WHEN THE PAVEMENT SURFACE TEMPERATURE IS ABOVE 60 DEGREES FAHRENHEIT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL CONSTRUCTION SIGNING AND STRIPING AS REQUIRED BY THE MUTCD AND MUTCD CALIFORNIA SUPPLEMENT TO DELINEATE CONSTRUCTION HAZARDS AT HIS/HER EXPENSE.

TREE PRESERVATION NOTES:

1. GRADING AROUND TREES TO BE LIMITED TO OUTSIDE THE DRIPLINE. ANY TREE WELL GRADED SHOULD BE DRAINED TO SOME OUTFALL OR SWALE.
2. THE FOLLOWING CONDITIONS SHALL APPLY TO ENSURE THE PRESERVATION OF TREES:
 - 2.1. EACH TREE OR GROUP OF TREES TO BE SAVED SHALL BE FENCED BY A CHAIN-LINK FENCE OR TEMPORARY FENCE DESIGNATED IN THE SPECIFICATION PRIOR TO ANY GRADING OR MOVEMENT OF HEAVY EQUIPMENT OR ISSUANCE OF ANY PERMITS.
 - 2.2. FENCING SHALL BE LOCATED ONE FOOT (1') OUTSIDE THE DRIPLINE OF THE TREE OR TREES.
 - 2.3. SIGNS SHALL BE POSTED ON ALL SIDES OF SAID FENCES STATING:

WARNING:
THIS FENCE SHALL NOT BE REMOVED
OR RELOCATED WITHOUT WRITTEN
AUTHORIZATION FROM THE
PLANING DEPARTMENT

3. THE GRADING PLAN FOR THE PROJECT HAS BEEN DESIGNED FOR NO GRADING TO OCCUR WITHIN THE DRIPLINE OF ANY OAK TREE UNLESS SPECIFICALLY APPROVED BY PLANNING DEPARTMENT AND SHOWN ON THESE PLANS. NO GRADES SHALL BE MODIFIED WITHOUT THE APPROVAL OF THE CIVIL ENGINEER AND THE CITY OF ROSEVILLE.
4. NO TRENCHING SHALL OCCUR BENEATH THE DRIPLINE OF ANY OAK TREE TO BE SAVED UNLESS STATED ON THESE PLANS "TRENCHING UNDER THIS TREE IS APPROVED".
5. PARKING OF VEHICLES AND EQUIPMENT OR STORAGE OF MATERIALS UNDER THE DRIPLINE OF TREES SHALL NOT OCCUR AT ANY TIME.

ABBREVIATIONS:

AB	AGGREGATE BASE
AS	AGGREGATE SUBBASE
AP	ANGLE POINT
AC	ASPHALT CONCRETE
BOW	BACK OF WALK
BOT	BOTTOM
BFP	BACKFLOW PREVENTER
CTSPD	CALTRANS STANDARD PLAN DETAIL
CIP	CAST IN PLACE
CLF	CHAIN LINK FENCE
CMP	CORRUGATED METAL PIPE
C&G	CURB & GUTTER
C, G & SW	CURB, GUTTER AND SIDEWALK
DDCV	DOUBLE DETECTOR CHECK VALVE
DIA	DIAMETER
DWT	DETECTABLE WARNING SURFACE
DBL	DOUBLE
EAS	EASEMENT
ES	EDGE OF SHOULDER
EC	END HORIZONTAL CURVE
EVCS	ELECTRIC VEHICLE CHARGING STATION
EP	EDGE OF PAVEMENT
EL	ELEVATION
(E)	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FL	FLOWLINE
FS	FINISHED SURFACE
GB	GRADE BREAK
ASPH	EXISTING ASPHALT CONCRETE
GTD	GRADE TO DRAIN
GR	GRATE
HP	HIGH POINT
HMA	HOT MIX ASPHALT
INV	INVERT
ISA	INTERNATIONAL SYMBOL OF ACCESSIBILITY
LT	LEFT
LP	LOW POINT
ME	MATCH EXISTING
PCC	PORTLAND CEMENT CONCRETE
OG	ORIGINAL GROUND
PP	POWER POLE
PG	PROPOSED GRADE
PIV	POST INDICATOR VALVE
R/W	RIGHT OF WAY
RW	RETAINING WALL
SED	SEE ELECTRICAL DRAWING
STA	STATION
STD	STANDARD
SWPPP	STORM WATER POLLUTION PREVENTION PLAN
RT	RIGHT
TOC	TOP OF CONCRETE
TOP	TOP OF PAVEMENT
VC	VERTICAL CURVE

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REVISIONS			
NO.	DESCRIPTION	DATE	BY


BENCH MARK	ELEV. SEE NOTES
THE VERTICAL DATUM OF THIS MAPPING IS BASED ON THE CITY OF ROSEVILLE BENCHMARKS 65, 66, 85, AND 90, ADJUSTED TO NAVD88 BY ADDING A PROJECT FACTOR OF +2.16 FEET.	

FIELD BOOK	CITY# 400164



CITY OF ROSEVILLE CALIFORNIA

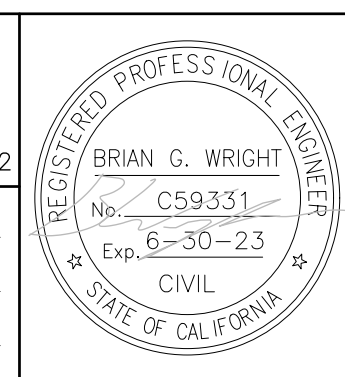
SCALE	
HORIZ. _____	
VERT. _____	



PSOMAS

1075 Creekside Ridge Way, Suite 200 Roseville, CA 95678 (916) 788-8122

DESIGNED BY: MEGAN BUCHE	DATE: 9/2021
CHECKED BY: BRIAN WRIGHT	DATE: 9/2021
DRAWN BY: CHARUNI KURUMBALAPITIYA	DATE: 9/2021



**CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
GENERAL NOTES AND ABBREVIATIONS**

STANDARD GENERAL NOTES:

- ALL CONSTRUCTION SHALL CONFORM TO THESE PLANS, THE CITY OF ROSEVILLE STANDARD SPECIFICATIONS (LATEST EDITION), THE CITY OF ROSEVILLE DESIGN AND CONSTRUCTION STANDARDS.
- THE CITY OF ROSEVILLE IS A MEMBER OF THE UNDERGROUND SERVICE ALERT (U.S.A.) ONE-CALL SYSTEM. THE CONTRACTORS OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE U.S.A. CENTER 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING 1-800-227-2600. EXCAVATION IS DEFINED AS BEING 18 OR MORE INCHES IN DEPTH BELOW THE EXISTING SURFACE.
- THE CONTRACTOR SHALL MARK IN WHITE PAINT ALL AREAS TO BE EXCAVATED PRIOR TO CONTACTING U.S.A. ANY AREAS NOT MARKED WILL NOT BE SUBJECT TO U.S.A., AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE RESULTING FROM EXCAVATION.
- THE CONTRACTOR SHALL EXPOSE AND VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION OF THE NEW IMPROVEMENTS CONNECTING TO OR IN THE VICINITY OF THE IMPROVEMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS AND OTHER SURVEY MARKERS WITHIN THE CONSTRUCTION ZONE.
- THE CONTRACTOR SHALL PLACE BOXED SURVEY MONUMENTS WITH 1-1/2" BRONZE HEAD SET IN CONCRETE (STD. DWG. ST-36) AT LOCATIONS TO BE DETERMINED BY THE ENGINEER.
- AC SURFACE SHALL BE CUT TO A NEAT, STRAIGHT LINE PARALLEL OR PERPENDICULAR WITH THE STREET CENTERLINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING. THE EXPOSED BASE MATERIAL SHALL BE GRADED, RE-COMPACTED, AND RESEALED PRIOR TO PAVING.
- ANY EXISTING CONCRETE SURFACE TO BE REMOVED SHALL BE SAW CUT TO A NEAT, STRAIGHT LINE.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN THAT SHALL BE ACCEPTED BY THE ENGINEERING DIVISION OF PUBLIC WORKS BEFORE START OF WORK IN RIGHT-OF-WAY AND SHALL BE IN ACCORDANCE WITH CALIFORNIA MUTCD LATEST EDITION. AT LEAST ONE LANE IN EACH DIRECTION SHALL REMAIN OPEN TO TRAFFIC UNLESS OTHERWISE SHOWN ON THE PLANS. TRAFFIC CONTROL HOURS ARE SUBJECT TO LIMITATION BY THE CITY. TRAFFIC CONTROL WITH LANE CLOSURES THAT AFFECT TRAFFIC FLOW MAY REQUIRE NIGHT WORK. IF, AS A PART OF TRAFFIC CONTROL MEASURES, A ROADWAY CLOSURE HAS BEEN APPROVED, THE CONTRACTOR SHALL NOTIFY DEVELOPMENT SERVICES CONSTRUCTION INSPECTOR 72 HOURS IN ADVANCE OF SETTING UP THIS CLOSURE.
- CURB RAMPS CONFORMING TO ALL ADA AND TITLE 24 REQUIREMENTS SHALL BE PLACED AT ALL NEW STANDARD CURB RETURNS (STANDARD DRAWING ST-27) AND STANDARD TYPE A-7 DRIVEWAYS. WHERE EXISTING RAMPS DO NOT MEET CURRENT ADA AND TITLE 24 REQUIREMENTS, THE RAMPS SHALL BE UPGRADED IN CONFORMANCE WITH MINIMUM TITLE 24 REQUIREMENTS. WHERE EXISTING RAMPS DO NOT INCLUDE DETECTABLE WARNING PANELS (TRUNCATED DOMES), PANELS SHALL BE RETROFITTED PER THE CONSTRUCTION STANDARDS.
- DRAIN INLETS NOT WITHIN A PAVED AREA SHALL HAVE A 12" WIDE COLLAR OF 6" THICK P.C.C. OR 2" THICK AC
- ALL UNDERGROUND UTILITIES WITHIN EXISTING OR PROPOSED CITY OF ROSEVILLE EASEMENTS SHALL REQUIRE A MINIMUM OF 90% COMPACTION ON THE TRENCH BACKFILL. COMPACTION OF BACKFILL BY JETTING IS NOT PERMITTED IN CITY OF ROSEVILLE RIGHT OF WAY AREAS OR WITHIN DEDICATED RECLAIMED WATER, STORM, SEWER OR WATER EASEMENTS AND MAINS.
- PRIOR TO EXCAVATION OF TRENCHES 5 FEET OR DEEPER, THE CONTRACTOR SHALL SUBMIT TO THE PUBLIC WORKS DEPARTMENT OR ENVIRONMENTAL UTILITIES DEPARTMENT INSPECTOR A COPY OF THE COMPANY'S ANNUAL CAL OSHA TRENCHING PERMIT AND A COPY OF THE COMPANY'S LETTER INFORMING CAL/OSHA OF THE TIME THE TRENCHING IS COMMENCING AND THE LOCATION OF THE WORK.
- ALL PAINTED TRAFFIC STRIPES, ARROWS, AND PAVEMENT MARKINGS SHALL BE CONSTRUCTED WITH THERMOPLASTIC MATERIAL TO THE SPECIFICATIONS SET FORTH IN CHAPTER 3 OF THE CALIFORNIA MUTCD LATEST EDITION. NON-REFLECTIVE PAVEMENT MARKERS SHALL CONSIST OF CERAMIC MARKERS ONLY CONFORMING TO CHAPTER 3 OF THE CALIFORNIA MUTCD LATEST EDITION.
- THE CONTRACTOR SHALL TAKE EXTREME CARE TO PROTECT EXISTING SITE AND ADJACENT IMPROVEMENTS FROM DAMAGE. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR MAKE REPLACEMENT OF ALL CRACKED AND OTHERWISE PRE-EXISTING DAMAGED PUBLIC IMPROVEMENTS ALONG THE FRONTAGE OF THE PROJECT SITE AND ANY DAMAGE RESULTING FROM CONSTRUCTION TO CURRENT CITY STANDARDS AND AT THEIR OWN EXPENSE. THE EXTENT OF THE REPAIRS SHALL BE DETERMINED BY THE PUBLIC WORKS INSPECTOR AND SHALL BE COMPLETED PRIOR TO THE CITY ACCEPTANCE OF THE IMPROVEMENTS.

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- WHERE COMBINATIONS OF SIDEWALK OR CURB AND GUTTER ARE POURED CONTIGUOUS TO EXISTING, ALL ADJOINING EXISTING CONCRETE VERTICAL FACES SHALL BE DOWELED. ALL ABUTTING SIDEWALK ENDS SHALL BE DOWELED MID-SECTION VERTICALLY WITH TWO DOWELS FOR FOUR THROUGH SIX-FOOT WIDE SIDEWALK AND THREE DOWELS FOR WIDER SIDEWALK. ABUTTING CURB AND GUTTER ENDS SHALL BE DOWELED TWICE, 18 INCHES APART AT GUTTER PAN MID-SECTION. DOWEL CONNECTIONS OF LONGITUDINAL RUNS OF SIDEWALK TO BACK OF CURB SHALL BE THREE FEET ON CENTER. ALL DOWELS SHALL BE 16 INCHES LONG, GRADE 60; #4 REBAR PENETRATING FOUR INCHES. THE DOWEL HOLE SHALL BE 5/8-INCH DIAMETER AT A SLIGHT HORIZONTAL ANGLE FROM PERPENDICULAR. THE PENETRATING PORTION OF THE DOWEL AND THE ENTIRE (CLEANED) VERTICAL SURFACE OF THE ADJOINING, EXISTING CONCRETE SHALL BE THOROUGHLY COATED WITH STATE STANDARD TWO-PART EPOXY.
- THE TYPES, LOCATIONS AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE IMPROVEMENT PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS.
- UTILITIES LOCATIONS ARE TAKEN FROM CITY AS-BUILT DRAWINGS AND FIELD REVIEWS. LOCATIONS OF THE GROUND FEATURES (MH, VALVES, ETC.) ARE APPROXIMATE AND SHOULD BE FIELD VERIFIED BY THE CONTRACTOR.
- ALL PUBLICLY MAINTAINED STORM DRAIN ON PRIVATE PROPERTY SHALL BE A MINIMUM OF 12 INCHES IN DIAMETER AND SHALL BE RCP CL IV, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.

GENERAL NOTES:

- THE CONTRACTOR AGREES THAT, IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXEMPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF ENGINEER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS NECESSARY TO PERFORM THE WORK SHOWN ON THESE PLANS FROM THE APPROPRIATE AGENCIES. REFER TO THE SPECIAL PROVISIONS FOR PERMITS NEEDED.
- THE CONTRACTOR SHALL POST EMERGENCY TELEPHONE NUMBERS FOR POLICE, FIRE, AMBULANCE, AND THOSE AGENCIES RESPONSIBLE FOR MAINTENANCE OF UTILITIES IN THE VICINITY OF THE JOB SITE.
- IF ARCHEOLOGICAL MATERIALS ARE UNCOVERED DURING GRADING, TRENCHING OR OTHER EXCAVATION, EARTHWORK WITHIN 100 FEET OF THESE MATERIALS SHALL BE STOPPED IN ACCORDANCE WITH SECTION 21-2E OF THE CITY OF ROSEVILLE CONSTRUCTION STANDARDS UNTIL A PROFESSIONAL ARCHEOLOGIST WHO IS CERTIFIED BY THE SOCIETY OF CALIFORNIA ARCHEOLOGY (SCA) AND/OR THE SOCIETY OF PROFESSIONAL ARCHEOLOGY (SOPA) HAS HAD AN OPPORTUNITY TO EVALUATE THE SIGNIFICANCE OF THE FIND AND SUGGEST APPROPRIATE MITIGATION MEASURES, IF THEY ARE DEEMED NECESSARY.

AIR QUALITY NOTES:

- CONSTRUCTION EQUIPMENT EXHAUST EMISSIONS SHALL NOT EXCEED PLACER COUNTY APCD RULE 202 VISIBLE EMISSION LIMITATIONS. OPERATORS OF VEHICLES AND EQUIPMENT FOUND TO EXCEED OPACITY LIMITS ARE TO BE IMMEDIATELY NOTIFIED BY APCD TO CEASE OPERATIONS AND THE EQUIPMENT MUST BE REPAIRED WITHIN 72 HOURS. (BASED ON APCD RULE 202)
- THE CONTRACTOR SHALL SUSPEND ALL GRADING OPERATIONS WHEN FUGITIVE DUST EXCEEDS PLACER COUNTY APCD RULE 228 (FUGITIVE DUST) LIMITATIONS. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN INDIVIDUAL WHO IS CARB-CERTIFIED TO PERFORM VISIBLE EMISSIONS EVALUATIONS (VEE). THIS INDIVIDUAL SHALL EVALUATE COMPLIANCE WITH RULE 228 ON A WEEKLY BASIS. IT IS TO BE NOTED THAT FUGITIVE DUST IS NOT TO EXCEED 40% OPACITY AND NOT GO BEYOND THE PROPERTY BOUNDARY AT ANY TIME. LIME OR OTHER DRYING AGENTS UTILIZED TO DRY OUT WET GRADING AREAS SHALL NOT EXCEED PLACER COUNTY APCD RULE 228 FUGITIVE DUST LIMITATIONS. OPERATORS OF VEHICLES AND EQUIPMENT FOUND TO EXCEED OPACITY LIMITS WILL BE NOTIFIED BY APCD AND THE EQUIPMENT MUST BE REPAIRED WITHIN 72 HOURS. ALL PROJECTS IN EXCESS OF 5 ACRES SHALL HAVE AN APPROVED DUST CONTROL PLAN FROM THE PLACER COUNTY AIR POLLUTION CONTROL DISTRICT. (BASED ON APCD RULE 228)
- DURING CONSTRUCTION, TRAFFIC SPEEDS ON ALL UNPAVED SURFACES SHALL BE LIMITED TO 15 MILES PER HOUR OR LESS. (BASED ON APCD RULE 228 / SECTION 401.2)
- DURING CONSTRUCTION, NO OPEN BURNING OF REMOVED VEGETATION SHALL BE ALLOWED UNLESS PERMITTED BY THE PCAPCD. ALL REMOVED VEGETATIVE MATERIAL SHALL BE EITHER CHIPPED ON SITE OR TAKEN TO AN APPROPRIATE RECYCLING SITE, OR IF A SITE IS NOT AVAILABLE, A LICENSED DISPOSAL SITE. (BASED ON APCD RULE 310)
- A PERSON SHALL NOT DISCHARGE INTO THE ATMOSPHERE VOLATILE ORGANIC COMPOUNDS (YOC'S) CAUSED BY THE USE OR MANUFACTURE OF CUTBACK OR EMULSIFIED ASPHALTS FOR PAVING, ROAD CONSTRUCTION OR ROAD MAINTENANCE, UNLESS SUCH MANUFACTURE OR USE COMPLIES WITH THE PROVISIONS RULE 217. (BASED ON APCD RULE 217).
- PROCESSES THAT DISCHARGE 2 POUNDS PER DAY OR MORE OF AIR CONTAMINANTS, AS DEFINED BY HEALTH AND SAFETY CODE SECTION 39013, TO THE ATMOSPHERE MAY REQUIRE A PERMIT. PERMITS MAY BE REQUIRED FOR BOTH CONSTRUCTION AND OPERATION. DEVELOPERS/CONTRACTORS SHOULD CONTACT THE DISTRICT PRIOR TO CONSTRUCTION AND OBTAIN ANY NECESSARY PERMITS PRIOR TO THE ISSUANCE OF A BUILDING PERMIT. (BASED ON THE CALIFORNIA HEALTH & SAFETY CODE SECTION 39013)

DATUMS:

- THE HORIZONTAL DATUM FOR THIS PROJECT IS THE NORTH AMERICAN DATUM OF 1983 (2011.00 EPOCH), CALIFORNIA STATE PLANE ZONE 2. THE VERTICAL DATUM IS THE NORTH AMERICAN VERTICAL DATUM OF 1955. THE HORIZONTAL AND VERTICAL DATUMS WERE ESTABLISHED FROM GPS OBSERVATIONS USING UNCALIBRATED REAL TIME NETWORK (RTN) METHODOLOGY. RTN DATA SUPPLIED BY CALIFORNIA SURVEY & DRAFTING SUPPLY USING THEIR VIRTUAL SURVEY NETWORK (VSN) SUBSCRIPTION SERVICE.

EROSION AND SEDIMENT CONTROL NOTES:

- THE PROJECT STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IS INCORPORATED BY REFERENCE INTO THIS SET OF PLANS. THE SWPPP IS CONSIDERED A DYNAMIC DOCUMENT AND WILL CHANGE AS CONDITIONS WARRANT. PERMANENT EROSION AND SEDIMENT CONTROL MEASURES WILL BE CONSTRUCTED AS SHOWN ON THESE PLANS.
- A COPY OF THE SWPPP SHALL BE KEPT AND AVAILABLE AT THE PROJECT SITE AT ALL TIMES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS SPECIFIED IN THE SWPPP AND/OR AS DIRECTED BY CITY INSPECTOR.
- NO GRADING OR TRENCHING, EXCEPT AS REQUIRED FOR EROSION OR SEDIMENT CONTROL, SHALL OCCUR WITHIN 35 FEET FROM THE CENTERLINE OF PERENNIAL AND INTERMITTENT DRAINAGE SWALES BETWEEN OCTOBER 15 AND APRIL 15 EXCEPT AS APPROVED BY THE DEPARTMENT OF FISH AND WILDLIFE.

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN ACCORDANCE WITH THE SWPPP.
- THE CONTRACTOR SHALL ESTABLISH A SPECIFIC SITE WITHIN THE DEVELOPMENT FOR MAINTENANCE AND STORAGE OF EQUIPMENT OR ANY OTHER ACTIVITY THAT MAY ADVERSELY CONTRIBUTE TO THE QUALITY OF THE RUNOFF IN ACCORDANCE WITH THE SWPPP.

FIRE DEPARTMENT NOTES:

- AN APPROVED PROJECT SIGN SHALL BE PLACED AT VEHICLE ACCESS POINTS INTO THE PROJECT DURING CONSTRUCTION TO ASSIST EMERGENCY RESPONDERS. THE SIGN SHALL IDENTIFY THE ADDRESS, AS APPROVED BY THE CITY OF ROSEVILLE. SUCH SIGNS SHALL BE CLEARLY VISIBLE AND LEGIBLE FROM THE STREET FRONTING THE PROJECT.
- PRIOR TO COMBUSTIBLE MATERIALS BEING BROUGHT TO THE SITE, FIRE APPARATUS ACCESS ROADS SHALL BE PROVIDED TO WITHIN 150 FEET OF ALL STRUCTURES AND COMBUSTIBLE STORAGE PILES. FIRE APPARATUS ACCESS ROADS SHALL BE FULLY PAVED AND SHALL BE DESIGNED TO SUPPORT THE IMPOSED WEIGHT OF A FIRE APPARATUS (34 TONS GVW), UNLESS PRIOR APPROVAL IS OBTAINED FROM THE FIRE DEPARTMENT FOR TEMPORARY ACCESS ROADS. ACCESS ROADS SHALL BE PROVIDED WITH A MINIMUM 20-FOOT ROADWAY WIDTH AND 13 FOOT 6 INCH VERTICAL CLEARANCE.
- PRIOR TO COMBUSTIBLE MATERIALS BEING BROUGHT TO THE SITE, ANY REQUIRED ON-SITE FIRE HYDRANTS SHALL BE COMPLETED AND ACCEPTED BY THE ROSEVILLE FIRE DEPARTMENT.
- CONSTRUCTION MATERIAL AND VEHICLES SHALL NOT OBSTRUCT FIRE APPARATUS ACCESS TO FIRE APPARATUS ROADS, FIRE HYDRANTS OR THE BUILDING.
- BARRICADES SHALL BE PROVIDED TO PROTECT ANY NATURAL GAS METER, FIRE HYDRANT, FIRE DEPARTMENT CONTROL DEVICE, OR OTHER POSSIBLE PERTINENT EQUIPMENT OR DEVICES THAT MAY BE SUBJECT TO VEHICULAR DAMAGE.
- PROVIDE AND MAINTAIN A MINIMUM 3-FOOT CLEAR SPACE AROUND FIRE PROTECTION EQUIPMENT
- THE BURNING OF COMBUSTIBLE CONSTRUCTION MATERIALS AND TRASH IS PROHIBITED.
- ASPHALT AND TAR KETTLES SHALL NOT BE LOCATED WITHIN 20 FEET OF ANY COMBUSTIBLE MATERIAL, COMBUSTIBLE BUILDING SURFACE OR BUILDING OPENING. AN ATTENDANT SHALL BE WITHIN 100 FEET OF A KETTLE WHEN THE HEAT SOURCE IS OPERATING. A MINIMUM OF ONE (1) 20B:C PORTABLE FIRE EXTINGUISHER SHALL BE LOCATED WITHIN 30 FEET OF THE KETTLE, AND ON THE ROOF DURING ASPHALT COATING OPERATIONS.
- DRYWALL AND OTHER TEMPORARY HEATING DEVICES SHALL BE OF AN APPROVED TYPE, LOCATED AWAY FROM COMBUSTIBLE MATERIALS AND ATTENDED AND MAINTAINED AT ALL TIMES. HEATING DEVICES SHALL NOT BE OPERATED AFTER NORMAL WORKING HOURS WITHOUT BEING ATTENDED TO ON AN HOURLY BASIS.
- CUTTING AND WELDING OPERATIONS SHALL CONFORM TO THE HOT WORK PROVISIONS OF CHAPTER 35 OF THE FIRE CODE. A FIRE WATCH SHALL BE PROVIDED DURING HOT-WORK ACTIVITIES AND SHALL CONTINUE FOR A MINIMUM OF 30 MINUTES AFTER THE CONCLUSION OF THE WORK.
- IF SITE SURVEY OR EARTH MOVING WORK RESULTS IN THE DISCOVERY OF HAZARDOUS MATERIALS IN CONTAINERS, OR WHAT APPEARS TO BE HAZARDOUS WASTES RELEASED INTO THE GROUND, THE CONTRACTOR OR APPLICANT SHALL IMMEDIATELY REPORT THE FINDING TO THE ROSEVILLE FIRE DEPARTMENT VIA PHONE AT (916) 774-5800. ALL SUSPECTED AREAS SHALL BE MARKED OFF WITH APPROVED SIGNAGE OR CAUTION TAPE UNTIL SUCH TIME THAT A REPRESENTATIVE FROM THE FIRE DEPARTMENT DETERMINES WHETHER THE RELEASE IS REPORTABLE OR NOT AND IF SITE REMEDIATION IS REQUIRED.
- FIRE SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CHAPTER 33 OF THE CALIFORNIA FIRE CODE.
- ADEQUATE RADIO COVERAGE SHALL BE PROVIDED WITHIN BUILDINGS FOR PUBLIC SAFETY AGENCIES, AS REQUIRED BY FIRE CODE.

Xrefs: ZEBB-C-BORDER
Images: cropped COR_black_logo.tif

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. SEE NOTES

THE VERTICAL DATUM OF THIS MAPPING IS BASED ON THE CITY OF ROSEVILLE BENCHMARKS 65, 66, 85, AND 90, ADJUSTED TO NAVD88 BY ADDING A PROJECT FACTOR OF +2.16 FEET.

FIELD BOOK

SCALE

HORIZ. _____

VERT. _____

CITY# 400164



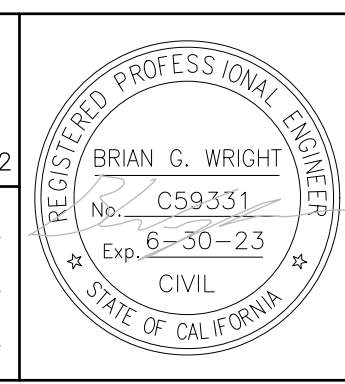
PSOMAS

1075 Creekside Ridge Way, Suite 200 Roseville, CA 95678 (916) 788-8122

DESIGNED BY: MEGAN BUCHE DATE 9/2021

CHECKED BY: BRIAN WRIGHT DATE 9/2021

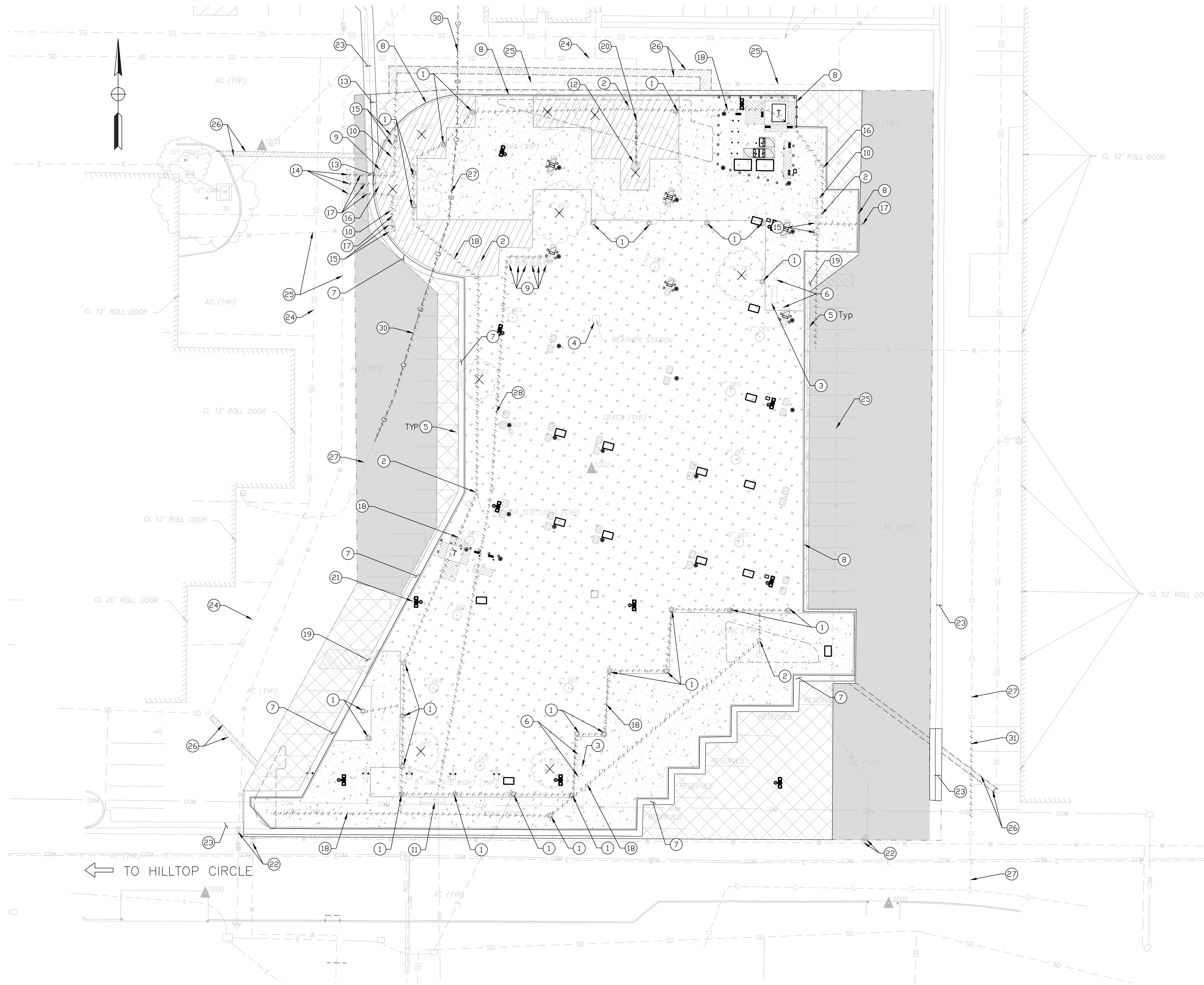
DRAWN BY: CHARUNI KURUMBALAPITIYA DATE 9/2021



**CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
GENERAL NOTES AND ABBREVIATIONS**

G-1

SHEET
2
— OF —
47



- LEGEND:**
- SAWCUT
 - LIMITS OF AC GRIND
 - [Symbol] REMOVE CONCRETE SIDEWALK
 - [Symbol] ROADWAY EXCAVATION UTILITY TRENCH
 - [Symbol] REMOVE LANDSCAPING AND IRRIGATION (GRASSY KNOLL)
 - [Symbol] REMOVE LANDSCAPING AND IRRIGATION (PLANTER)
 - [Symbol] AC GRIND FOR OVERLAY
 - [Symbol] ROADWAY EXCAVATION
 - X REMOVE TREE (4" DIAMETER AND GREATER)
REMOVAL OF ALL MITIGATION TREES TO BE COORDINATED WITH THE CITY PARKS DEPARTMENT
 - ① REMOVE PEDESTAL WALKWAY LIGHT
 - ② REMOVE PARKING LOT LIGHT
 - ③ REMOVE & SALVAGE WOODEN BENCH
 - ④ REMOVE & SALVAGE WEATHER STATION
 - ⑤ RELOCATE WHEEL STOP TO LIGHT DUTY PARKING LOT (30 TOTAL)
 - ⑥ REMOVE & SALVAGE ASH RECEPTACLE (4 TOTAL)
 - ⑦ REMOVE PCC C&G
 - ⑧ REMOVE PCC CURB
 - ⑨ REMOVE IRRIGATION VALVE
 - ⑩ REMOVE FIRE PROTECTION WATER BFP AND METER (TOTAL 3 EA)
 - ⑪ REMOVE & SALVAGE BIKE RACK
 - ⑫ REMOVE AREA DRAIN
 - ⑬ REMOVE VALLEY GUTTER
 - ⑭ REMOVE WATER VALVE
 - ⑮ REMOVE PIV & FDC
 - ⑯ RELOCATE FH (SEE UTILITY PLAN)
 - ⑰ REMOVE 8" WATER PIPE
 - ⑱ REMOVE ELECTRICAL CONDUIT
 - ⑲ REMOVE CURB RAMP (TOTAL 2 EA)
 - ⑳ REMOVE 8" STORM DRAIN (TOTAL 103 LF)
 - ㉑ REMOVE SIGN AND POST
 - ㉒ PROTECT EXISTING WATER STRUCTURE
 - ㉓ PROTECT EXISTING VALLEY GUTTER
 - ㉔ PROTECT EXISTING STORM DRAIN
 - ㉕ PROTECT EXISTING WATER PIPE
 - ㉖ SAWCUT LIMITS OF UTILITY TRENCH
 - ㉗ PROTECT GAS LINE IN PLACE. PORTIONS OF GAS LINE TO BE RELOCATED BY PG&E.
 - ㉘ REMOVE EXISTING IRRIGATION FACILITY
 - ㉙ RELOCATE EXISTING WATER PIPE
 - ㉚ PG&E TO REMOVE AND PLACE NEW GAS SERVICE LINE IN TRENCH EXCAVATED AND BACKFILLED BY CONTRACTOR. REMOVE AND RE-ROUTE EXISTING GAS PIPE. SEE UTILITY PLAN
 - ㉛ PG&E TO MODIFY GAS SERVICE LINE IN TRENCH EXCAVATED AND BACKFILLED BY CONTRACTOR TO AVOID CONFLICT WITH PROPOSED STORM DRAIN PIPE.
- NOTE:**
1. WHERE ELECTRICAL AND IRRIGATION FACILITIES ARE TO BE REMOVED, CAP ELECTRICAL AND IRRIGATION AT SOURCE.
 2. CONTRACTOR TO COORDINATE WITH PG&E AND OWNER FOR GAS LINE RELOCATION.

Xrefs: ZEBD-C-BORDER/ZEBD-C-SITEV-TPG-HilltopBusDepot_DEMO/ZEBD-X-UTIL/ZEBD-C-TOPO-ADDITIONS_DEMO/ZEBD-C-UTIL Images: cropped_COR_block_logo.tif

REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. SEE NOTES

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FIELD BOOK

SCALE
HORIZ. 1"=20'
VERT. _____

CITY# 400164

PSOMAS

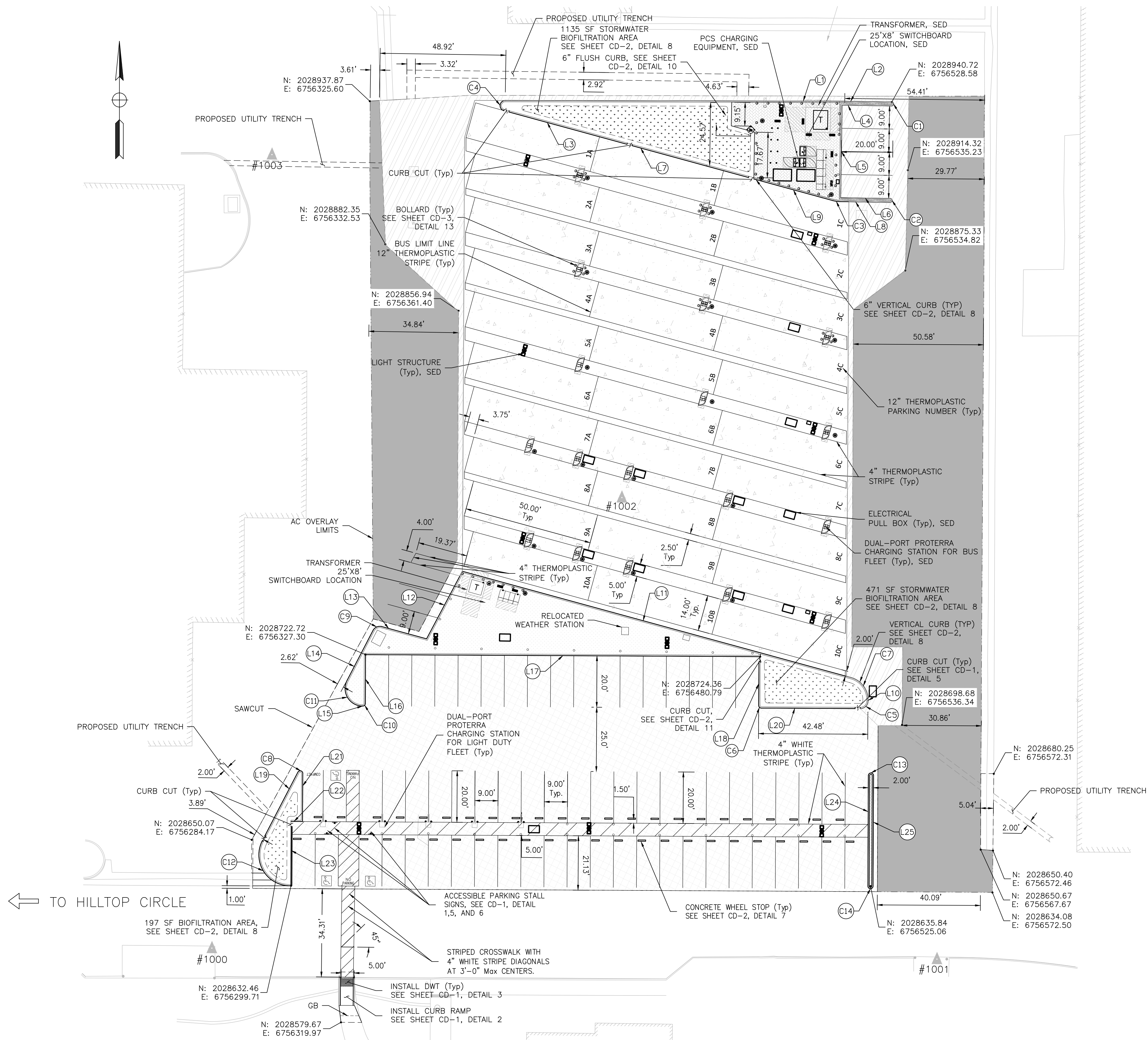
1075 Creekside Ridge Way, Suite 200 Roseville, CA 95678 (916) 788-8122

DESIGNED BY: MEGAN BUCHE DATE 9/2021

CHECKED BY: BRIAN WRIGHT DATE 9/2021

DRAWN BY: CHARUNI KURUMBALAPITIYA DATE 9/2021

**CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
DEMOLITION PLAN**



- NOTES:**
- SEE SHEET CD-1, DETAIL 1 FOR STRIPING AND SIGNING INFORMATION AT ADA AND VAN ACCESSIBLE PARKING STALLS AND CROSSWALK AT LIGHT DUTY PARKING LOT
 - CONCRETE SHALL HAVE THICKENED EDGE WHERE ADJACENT TO ASPHALT OR LANDSCAPE

- SURFACE LEGEND:**
- BIOFILTRATION AREA FOOTPRINT
 - 0.15' COLD PLANE AC
 - 0.15'-0.33' HMA (TYPE A)
 - 0.5' JPCP
 - 0.5' CLASS 2 AB
 - MEDIAN LANDSCAPING
 - FULL DEPTH RECONSTRUCTION (HMA/AB OR PCC-JPCP/AB)

- BUS BAYS:**
- 0.88' JPCP
 - 0.50 CLASS 2 AB
- OR
- 0.65' HMA (TYPE A)
 - 1.30 CLASS 2 AB

- LIGHT DUTY PARKING LOT:**
- 0.25' HMA (TYPE A)
 - 0.5' CLASS 2 AB

CONTROL TABLE:

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	2028607.73	6756269.33	140.26	CUT X CONC
1001	2028607.85	6756551.34	138.42	CUT X CONC
1002	2028785.34	6756426.03	142.19	1/2" REBAR W/ PSO CAP
1003	2028916.53	6756287.88	137.82	MAG NAIL W/ PSO WASHER

LINE DATA TABLE

LINE NO.	LENGTH	DIRECTION
L1	131.02	N89° 14' 11.79"E
L2	19.25	N90° 00' 00.00"E
L3	47.65	N75° 36' 11.44"W
L4	19.25	N90° 00' 00.00"W
L5	36.00	S00° 00' 00.00"E
L6	19.25	N90° 00' 00.00"E
L7	46.99	N75° 36' 11.44"W
L8	19.68	N90° 00' 00.00"W
L9	31.97	N75° 36' 11.44"W
L10	0.33	N00° 31' 40.02"E
L11	156.67	N75° 36' 11.44"W
L12	29.72	S27° 03' 30.48"W
L13	18.03	N75° 36' 11.44"W
L14	21.57	S26° 32' 18.36"W
L15	0.18	N89° 23' 48.56"E
L16	19.00	N00° 36' 11.44"W
L17	153.50	N89° 23' 48.56"E
L18	17.00	S00° 36' 11.44"E
L19	27.98	N26° 33' 23.40"E
L20	36.50	N89° 23' 48.56"E
L21	18.71	S00° 36' 11.44"E

LINE DATA TABLE

LINE NO.	LENGTH	DIRECTION
L22	4.31	S89° 23' 48.56"W
L23	22.99	S00° 31' 40.02"E
L24	42.98	N00° 38' 17.83"W
L25	42.98	S00° 38' 17.83"E

CURVE DATA TABLE

No.	LENGTH	RADIUS	TANGENT	DELTA
C1	2.36'	0.75'	INFINITY'	180° 00' 00"
C2	2.36'	0.75'	INFINITY'	180° 00' 00"
C3	2.51'	10.00'	1.26'	014° 23' 49"
C4	5.76'	2.00'	15.19'	165° 00' 00"
C5	4.71'	3.00'	3.00'	089° 55' 29"
C6	1.57'	1.00'	1.00'	090° 00' 13"
C7	11.79'	9.00'	6.92'	075° 04' 31"
C8	2.67'	1.00'	4.14'	152° 50' 25"
C9	4.08'	3.00'	2.42'	077° 51' 30"
C10	1.57'	1.00'	1.00'	090° 00' 00"
C11	14.14'	6.82'	11.54'	118° 52' 22"
C12	24.54'	12.00'	19.64'	117° 09' 35"
C13	3.14'	1.00'	INFINITY'	180° 00' 00"
C14	3.14'	1.00'	INFINITY'	180° 00' 00"

PARKING STALL COUNT

BUS TRANSIT SPACES	30
BUS CHARGING DISPENSERS	15
EXISTING LIGHT DUTY SPACES	45
LIGHT DUTY SPACES TO REMAIN	3
NEW LIGHT DUTY SPACES	65
NON-EV LIGHT DUTY SPACES	0
LIGHT DUTY EV SPACES	72
LIGHT DUTY EV DISPENSERS	25
TOTAL LIGHT DUTY SPACES	72

ACCESSIBLE STALL COUNT

ACCESSIBLE STALLS WITH EVCS	1
REGULAR ACCESSIBLE STALLS	2
VAN ACCESSIBLE STALLS	1
TOTAL ACCESSIBLE STALLS	3

Xrefs: ZEBD-C-BORDER\ZEBD-C-TOPO-ADDITIONS\TPC-HilltopBusDepot_DEMO\ZEBD-C-SITE Images: cropped_COR_block_logp.tif

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. SEE NOTES

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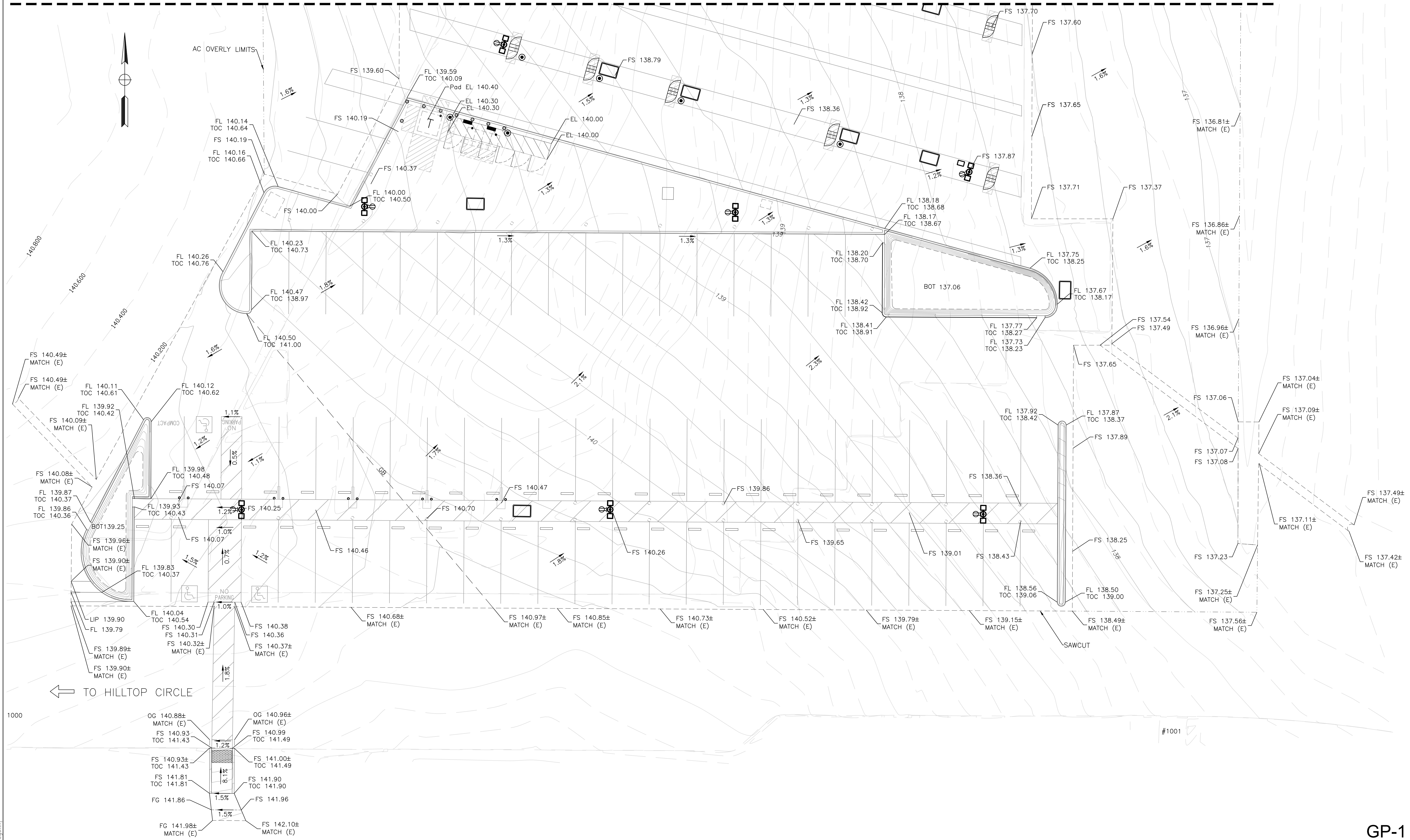
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**CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
SITE PLAN AND SURVEY CONTROL**

MATCHLINE SEE GP-2



TO HILLTOP CIRCLE

#1001

Xrefs: ZEBD-C-BORDER10-0091-01_rev-1[ZEBD-C-SITE]V-TPC-HilltopBusDepot
Images: cropped_COR_block_logp.tif

REVISIONS			
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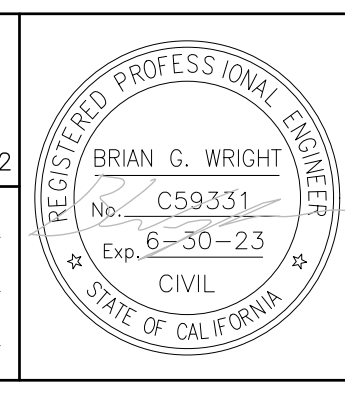
BENCH MARK	ELEV.	SEE NOTES
OG 140.88±	MATCH (E)	
FS 140.93	TOC 141.43	
OG 140.96±	MATCH (E)	
FS 140.99	TOC 141.49	
FS 140.93±	TOC 141.43	
FS 141.81	TOC 141.81	
FG 141.86		
FS 141.00±	TOC 141.49	
FS 141.90	TOC 141.90	
FS 141.96		
FS 142.10±	MATCH (E)	

FIELD BOOK
CITY# 400164

SCALE
HORIZ. 1"=20'
VERT. _____

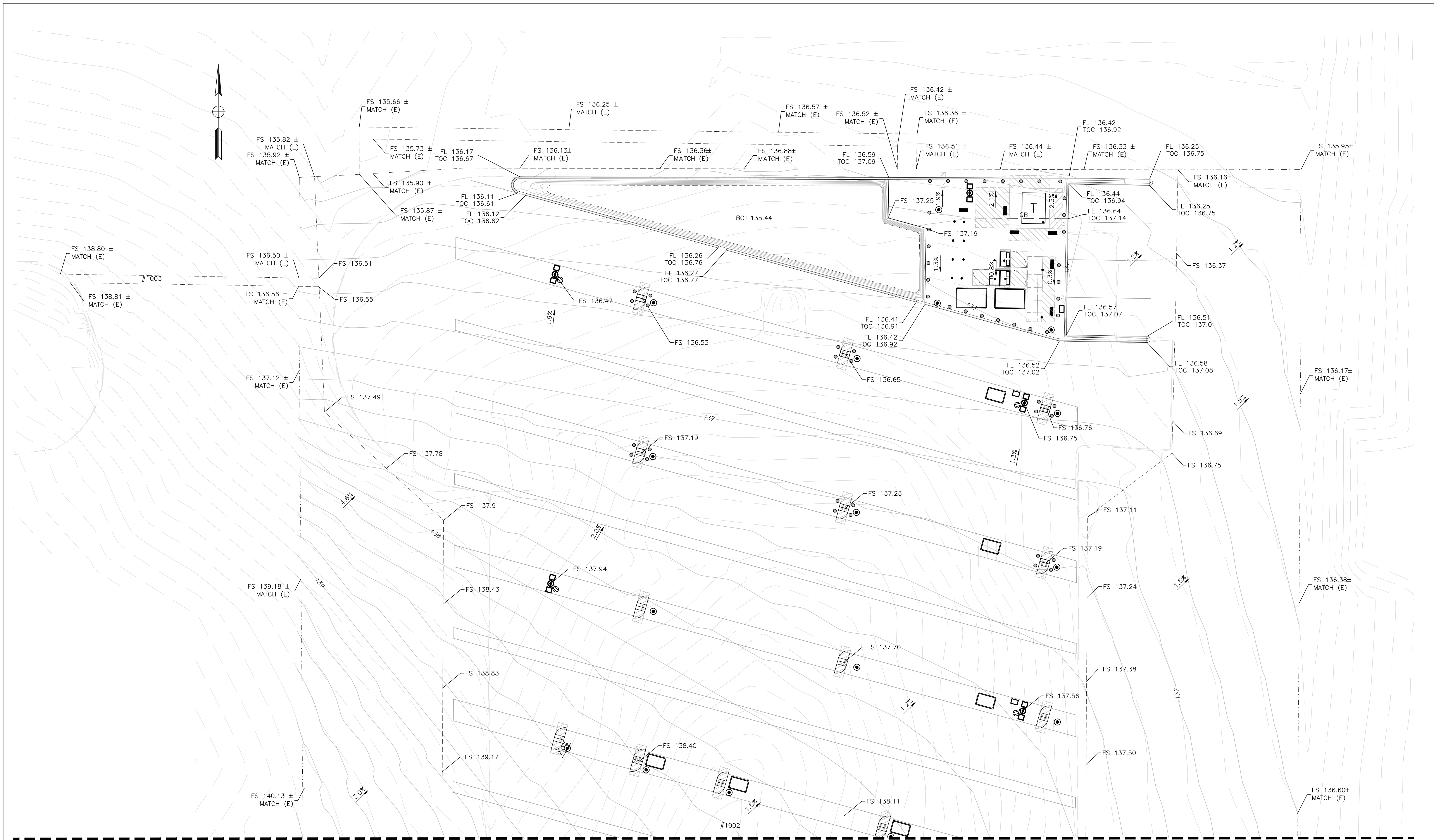
PSOMAS
1075 Creekside Ridge Way, Suite 200 Roseville, CA 95678 (916) 788-8122

DESIGNED BY: MEGAN BUCHE DATE 9/2021
CHECKED BY: BRIAN WRIGHT DATE 9/2021
DRAWN BY: CHARUNI KURUMBALAPITIYA DATE 9/2021



CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
GRADING PLAN

GP-1
SHEET 6 OF 47



MATCHLINE SEE GP-1

GP-2

Xrefs: ZEBD-C-BORDER\10-0091-01_rev-1\ZEBD-C-SITE\TPC-HilltopBusDepot
Images: cropped_COR_black_logo.tif

NO.	REVISIONS DESCRIPTION	DATE	BY

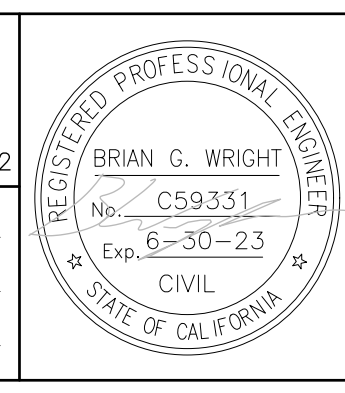
BENCH MARK ELEV. SEE NOTES
 THE VERTICAL DATUM OF THIS MAPPING IS BASED ON THE CITY OF ROSEVILLE BENCHMARKS 65, 66, 85, AND 90, ADJUSTED TO NAVD88 BY ADDING A PROJECT FACTOR OF +2.16 FEET.

FIELD BOOK
 SCALE
 HORIZ. 1"=20'
 VERT. _____

CITY# 400164

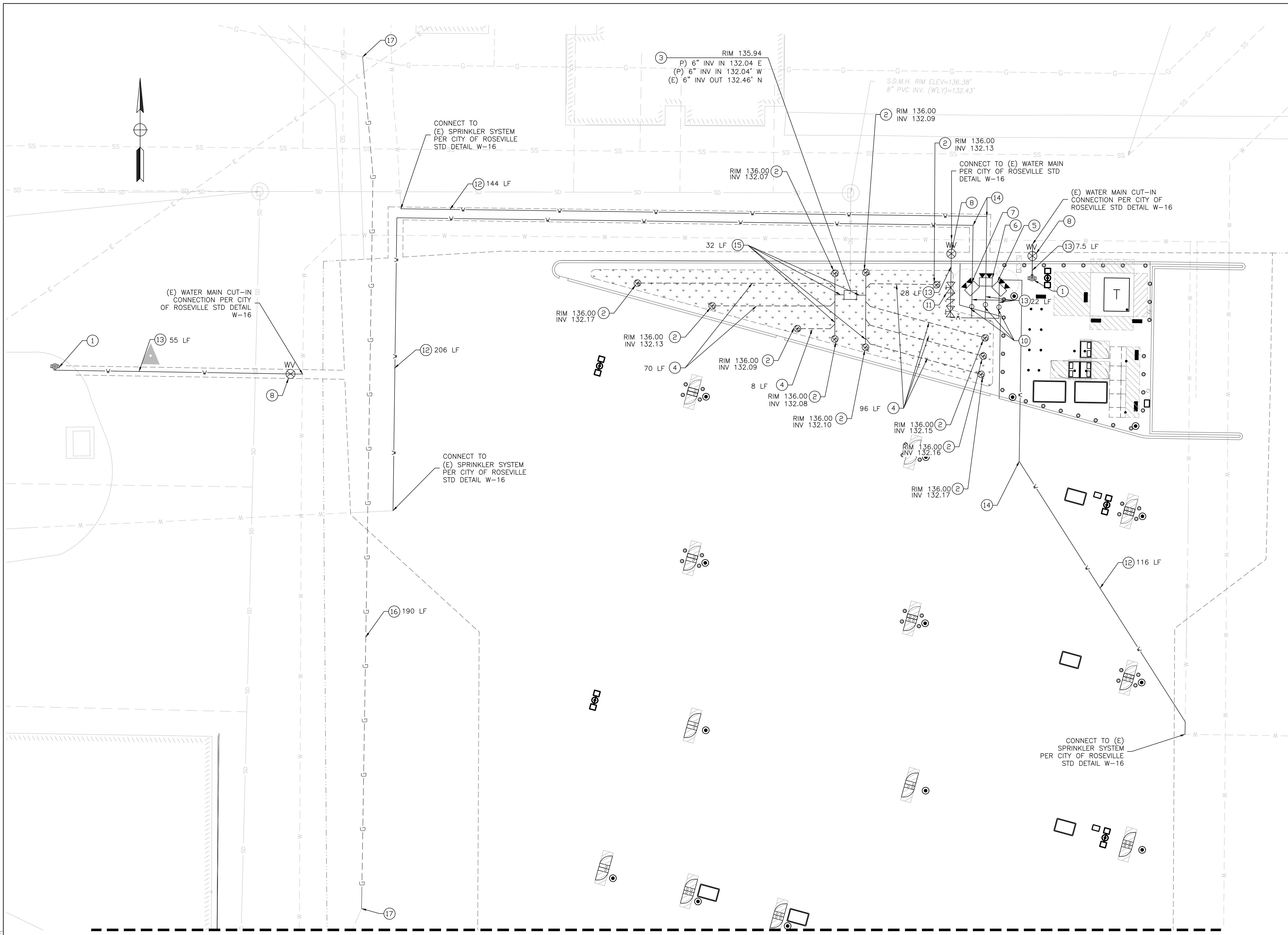


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**CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT
 GRADING PLAN**

SHEET
 7
 OF
 47



- LEGEND:**
- SD — EXISTING STORM DRAIN LINE
 - SS — EXISTING SEWER LINE
 - W — EXISTING WATER LINE
 - G — EXISTING GAS LINE
 - E — EXISTING ELECTRICAL LINE
 - COM — EXISTING COMMUNICATIONS FIBER

- NOTES:**
1. CONTRACTOR SHALL INSTALL THRUST BLOCK PER CONSTRUCTION DETAIL XX AT HORIZONTAL AND VERTICAL PIPE BENDS

- KEY NOTES:**
1. INSTALL RELOCATED FIRE HYDRANT, PER FIRE HYDRANT ASSEMBLY, CITY STANDARD DETAIL W-13, SEE SHEET CD-3, DETAIL 14
 2. PERFORATED PIPE CLEAN-OUT, SEE SHEET CD-2, DETAIL 12
 3. PLANTER OVERFLOW, SEE SHEET CD-2, DETAIL 9
 4. INSTALL 6" PERFORATED PIPE, SDR 35 DRAIN PIPE, S=0.25% MIN
 5. INSTALL NEW FDC TO 2025 HILLTOP CIRC. FDC SHALL HAVE SIGN WITH SERVICE ADDRESS PER CFC.
 6. INSTALL NEW FDC TO 2055 HILLTOP CIRC. FDC SHALL HAVE SIGN WITH SERVICE ADDRESS PER CFC.
 7. INSTALL NEW FDC TO 2075 HILLTOP CIRC. FDC SHALL HAVE SIGN WITH SERVICE ADDRESS PER CFC.
 8. INSTALL WATER VALVE PER CITY OF ROSEVILLE STANDARD DRAWING W-16, SEE SHEET CD-3, DETAIL 15
 9. INSTALL 8" PVC SDR-35 STORM DRAIN PIPE
 10. INSTALL RELOCATED PIV
 11. INSTALL DDCV PER CITY STANDARD DETAIL W-3, SEE SHEET CD-3, DETAIL 16
 12. INSTALL 8" PVC C-900 CL 250 FIRE WATER PIPE
 13. INSTALL 6" FULLY RESTRAINED DIP FIRE WATER PIPE.
 14. INSTALL MECHANICAL RESTRAINT AT VERTICAL AND HORIZONTAL BENDS IN WATER PIPE.
 15. INSTALL 6" PVC SDR-35 STORM DRAIN PIPE
 16. PG&E TO INSTALL 1-1/4" GAS LINE IN TRENCH EXCAVATED AND BACKFILLED BY CONTRACTOR. CONTRACTOR TO COORDINATE WITH OWNER AND PG&E FOR INSTALLATION INSPECTION AND PROCEDURE. GAS PIPE SHALL MAINTAIN MINIMUM 30" COVER TO FINISH GRADE.
 17. CONNECT TO EXISTING GAS PIPE. COORDINATE WITH PG&E FOR INSPECTION.
 18. RE-ROUTE EXISTING GAS LINE TO AVOID CONFLICT WITH STORM DRAIN PIPE. GAS PIPE SHALL MAINTAIN MINIMUM 30" COVER TO FINISH GRADE AND 12" VERTICAL CLEARANCE WITH STORM DRAIN PIPE. CONTRACTOR TO COORDINATE WITH OWNER AND PG&E FOR INSTALLATION INSPECTION AND PROCEDURE.

MATCHLINE A-A, SEE SHEET U-2

Xrefs: ZEBD-C-BORDER/ZEBD-X-UTIL/510-0091-01_rev-1/V-TPG-HilltopBusDepot_DEMO/ZEBD-C-TOPO-ADDITIONS_DEMO/ZEBD-C-UTIL Images: cropped_COR_block_logo.tif

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. SEE NOTES

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FIELD BOOK CITY# 400164

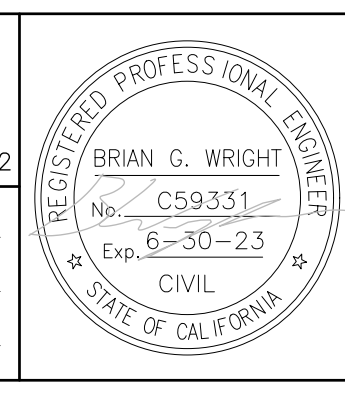
SCALE
HORIZ. 1"=20'
VERT. _____

CITY OF ROSEVILLE CALIFORNIA

PSOMAS

1075 Creekside Ridge Way, Suite 200 Roseville, CA 95678 (916) 788-8122

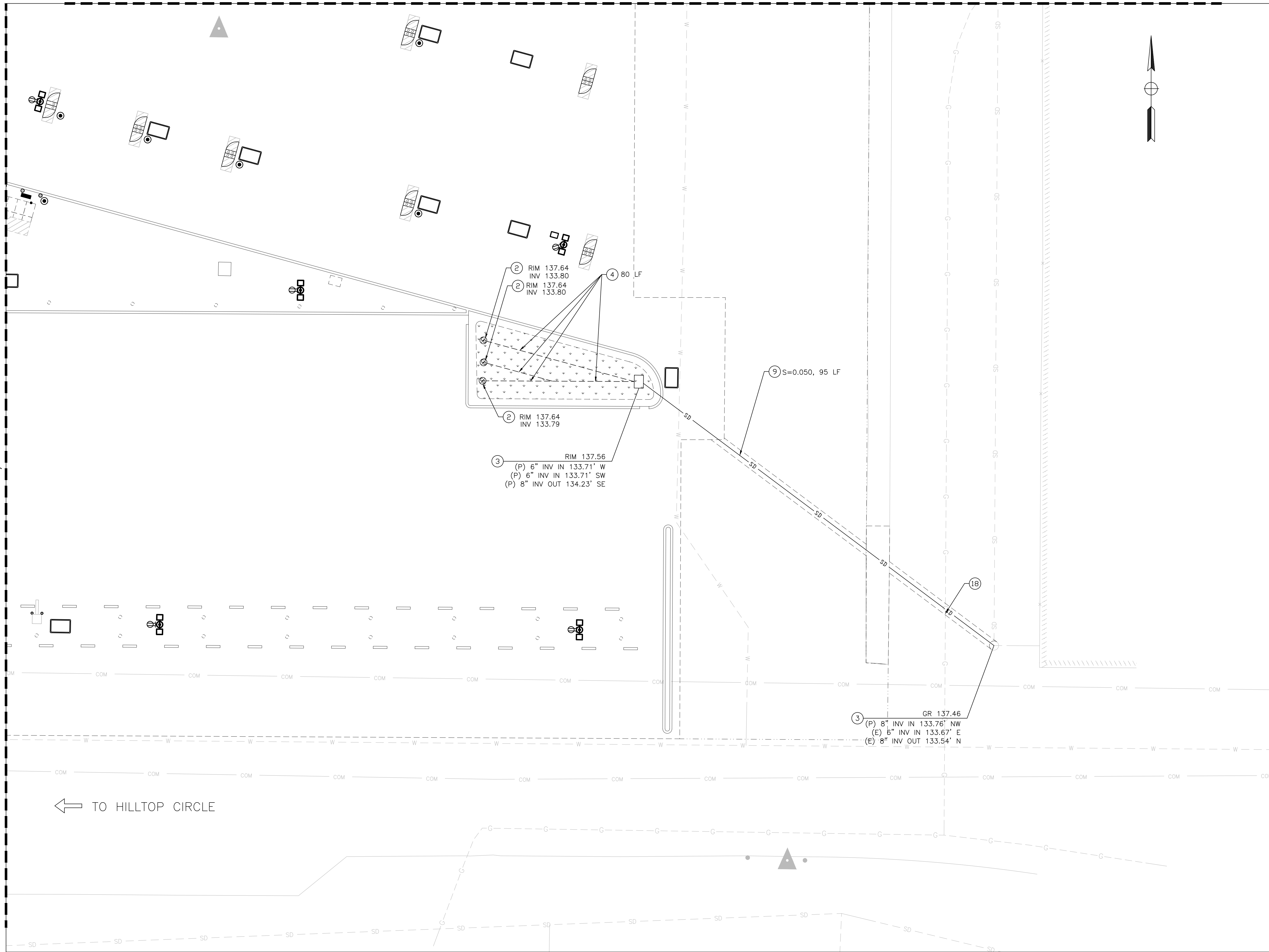
DESIGNED BY: MEGAN BUCHE DATE 9/2021
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DRAWN BY: CHARUNI KURUMBALAPITIYA DATE 9/2021



**CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
DRAINAGE AND UTILITY PLAN**

MATCHLINE A-A, SEE SHEET U-1

MATCHLINE B-B, SEE SHEET U-3



LEGEND:

- SD — EXISTING STORM DRAIN LINE
- SS — EXISTING SEWER LINE
- W — EXISTING WATER LINE
- G — EXISTING GAS LINE
- E — EXISTING ELECTRICAL LINE
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NOTES:

1. CONTRACTOR SHALL INSTALL THRUST BLOCK PER CONSTRUCTION DETAIL XX AT HORIZONTAL AND VERTICAL PIPE BENDS

KEY:

1. INSTALL RELOCATED FIRE HYDRANT, PER FIRE HYDRANT ASSEMBLY, CITY STANDARD DETAIL W-13, SEE SHEET CD-3, DETAIL 14
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5. INSTALL NEW FDC TO 2025 HILLTOP CIRC. FDC SHALL HAVE SIGN WITH SERVICE ADDRESS PER CFC.
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8. INSTALL WATER VALVE PER CITY OF ROSEVILLE STANDARD DRAWING W-16, SEE SHEET CD-3, DETAIL 15
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Xrefs: ZEBD-C-BORDER\ZEBD-X-UTIL\510-0091-01_rev-1\1V-TPG-HilltopBusDepot_DEMO\ZEBD-C-TOPO-ADDITIONS_DEMO\ZEBD-C-UTIL Images: cropped_COR_block_logo.tif

NO.	REVISIONS DESCRIPTION	DATE	BY

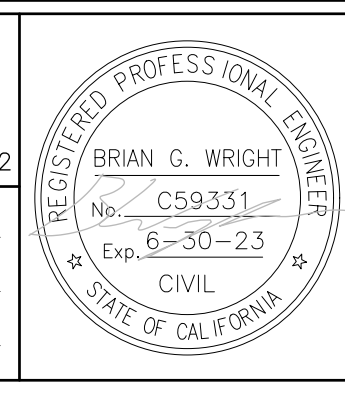
BENCH MARK ELEV. SEE NOTES
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FIELD BOOK
 SCALE
 HORIZ. 1"=20'
 VERT. _____

CITY# 400164

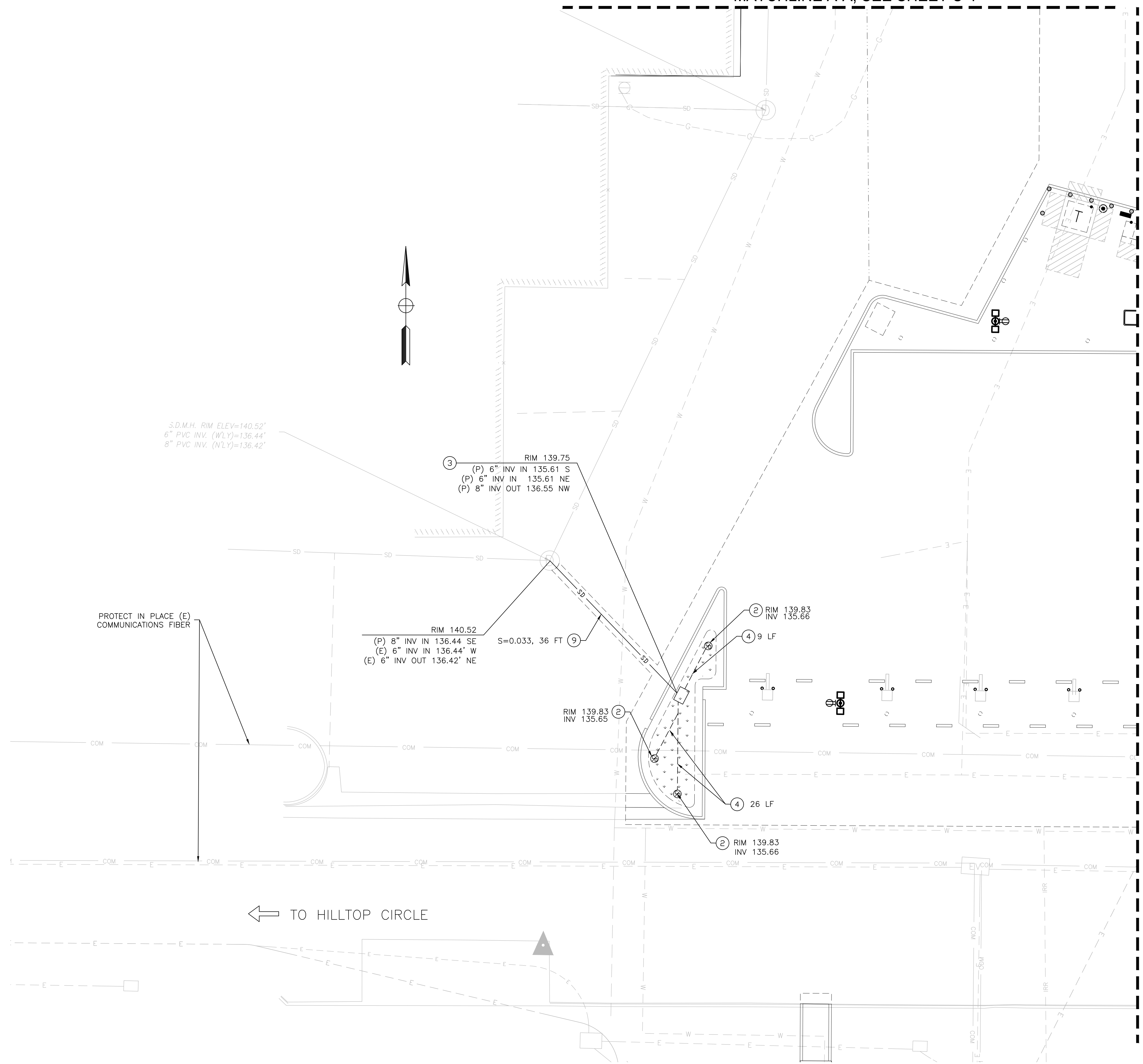
PSOMAS
 1075 Creekside Ridge Way, Suite 200 Roseville, CA 95678 (916) 788-8122

DESIGNED BY: MEGAN BUCHE DATE 9/2021
 CHECKED BY: BRIAN WRIGHT DATE 9/2021
 DRAWN BY: CHARUNI KURUMBALAPITIYA DATE 9/2021



**CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT
 DRAINAGE AND UTILITY PLAN**

MATCHLINE A-A, SEE SHEET U-1



MATCHLINE B-B, SEE SHEET U-2

LEGEND:

- SD — EXISTING STORM DRAIN LINE
- SS — EXISTING SEWER LINE
- W — EXISTING WATER LINE
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NOTES:

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Xrefs: ZEBD-C-BORDER\ZEBD-X-UTIL\510-0091-01_rev-1\1V-TPG-HilltopBusDepot_DEMO\ZEBD-C-TOPO-ADDITIONS_DEMO\ZEBD-C-UTIL Images: cropped_COR_block_logo.tif

NO.	REVISIONS DESCRIPTION	DATE	BY

BENCH MARK	ELEV.	SEE NOTES

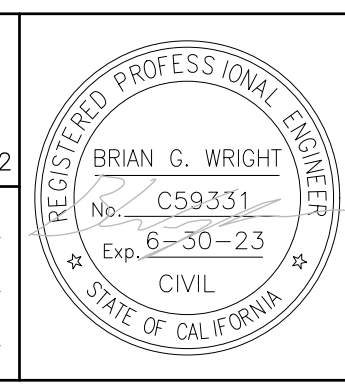
FIELD BOOK

CITY# 400164

SCALE
HORIZ. 1"=20'
VERT. _____

PSOMAS
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DESIGNED BY: MEGAN BUCHE DATE 9/2021
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CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
DRAINAGE AND UTILITY PLAN

U-3
SHEET 10 OF 47



CAPTURED DMAs HEAVY AND LIGHT DUTY PARKING AREAS		
DMA	IMPERVIOUS	TOTAL AREA
1	3,951 SF	3,951 SF
2 EQUIVALENT	1,672 SF	1,672 SF
3 EQUIVALENT	1,701 SF	1,701 SF
4	11,771 SF	11,771 SF
5	23,237 SF	23,237 SF
6 EQUIVALENT	9,051 SF	9,051 SF
TOTAL	51,383 SF	51,383 SF

UNCAPTURED DMAs HEAVY AND LIGHT DUTY PARKING AREAS		
DMA	IMPERVIOUS	TOTAL AREA
2 UNCAPTURED	1,672 SF	1,672 SF
3 UNCAPTURED	1,701 SF	1,701 SF
6 UNCAPTURED	9,051 SF	9,051 SF
TOTAL	12,424 SF	12,424 SF

KEY NOTES:
 ① BIORETENTION AREA

Xrefs: ZEBD-C-BORDER\ZEBD-X-UTIL\ZEBD-C-SITE\ZEBD-X-UTIL-DEM\DEM\TPG-HilltopBusDepot\TPG-HilltopBusDepot_DEMO Images: cropped_Cor_black_logo.tif

REVISIONS			
NO.	DESCRIPTION	DATE	BY

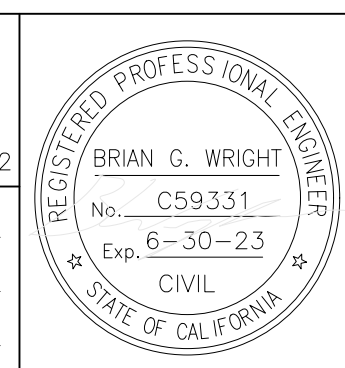
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FIELD BOOK
 SCALE
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CITY# 400164



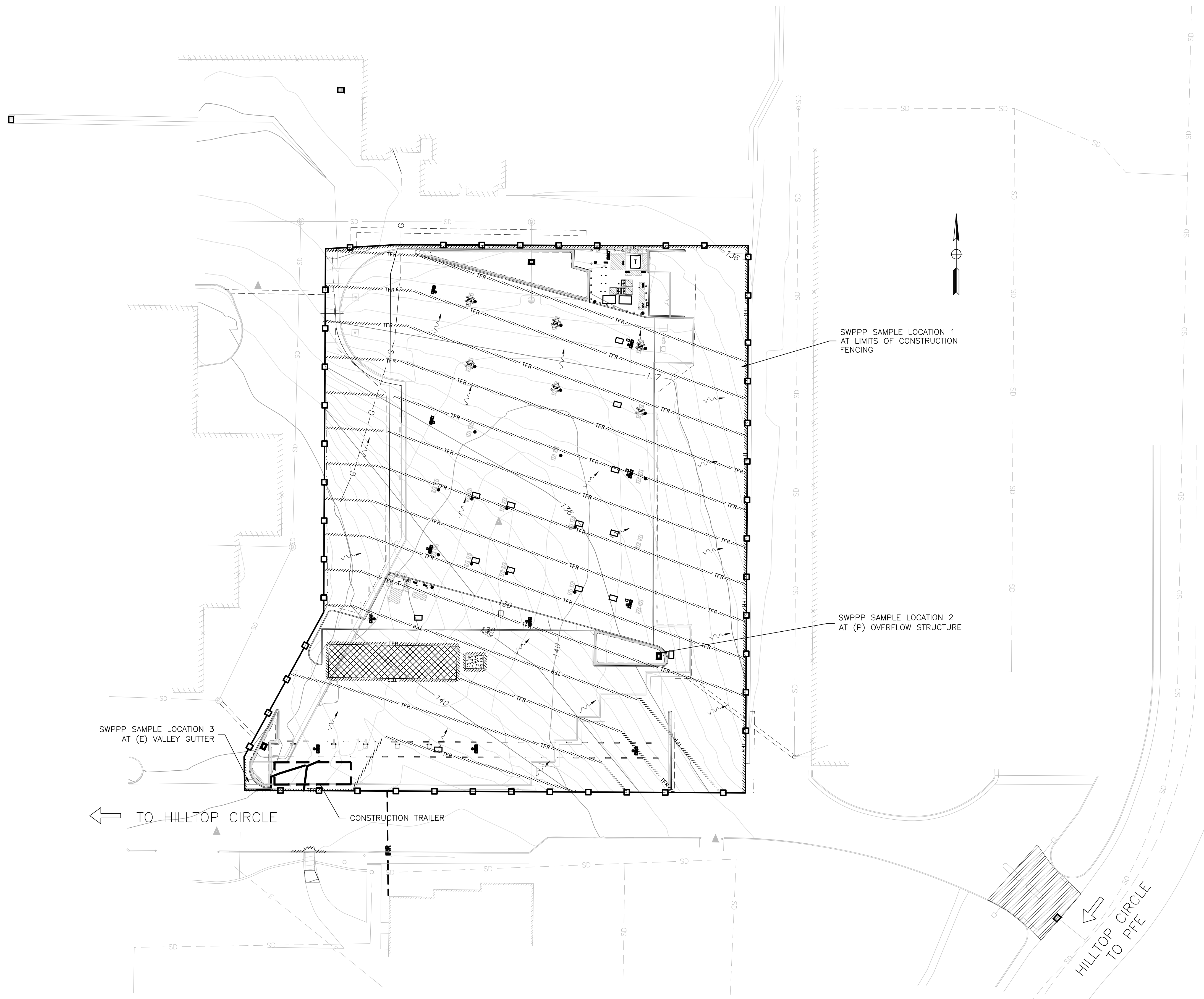
PSOMAS
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 DESIGNED BY: MEGAN BUCHE DATE: 9/2021
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 DRAWN BY: CHARUNI KURUMBALAPITIYA DATE: 9/2021



CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT
 STORMWATER MANAGEMENT PLAN

SM-1
 SHEET 11 OF 47

X:\12-ZEBD-C-BORDER\ZEBD-X-UTIL\ZEBD-C-SITE\ZEBD-X-UTIL-DEM\TPG-HilltopBusDepot\TPG-HilltopBusDepot\Aerial\ZEBD-C-UTIL-images:cropped_Cor_block_logo.tif



- NOTES:**
- DURING DRY WEATHER, WATER SHALL BE SPRAYED ON ALL DISTURBED AREAS AT LEAST ONCE DAILY FOR DUST CONTROL.
 - ALL BMP'S TO BE INSPECTED WEEKLY, BEFORE, AFTER AND DURING EACH RAIN EVENT. REPAIR OR REPLACE AS NECESSARY.
 - ALL MATERIALS STORED ON SITE SHALL HAVE PROPER ENCLOSURES AND/OR COVERINGS. CONTRACTOR TO COORDINATE WITH THE CITY OF ROSEVILLE TO DETERMINE STOCKPILE LOCATIONS OF MATERIALS AND CONSTRUCTION EQUIPMENT.
 - ALL EROSION CONTROL BMP'S SHALL BE IN PLACE PRIOR TO ANY STORM EVENTS.
 - CONDUCT REGULAR SWEEPING OPERATIONS AT THE DRIVEWAYS ON SITE.
 - SEE SHEET GN-1 FOR ADDITIONAL NOTES PERTINENT TO EROSION CONTROL BMP'S.
 - BMP'S ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL DETERMINE BMP PLACEMENT AND VERIFY WITH QSP.

- LEGEND:**
- GRAVEL INLET FILTER PROTECTION PER CITY OF ROSEVILLE STANDARD DRAWING BMP-8
 - TEMPORARY FIBER ROLL PER CITY OF ROSEVILLE STANDARD DRAWING BMP-5, SEE CD-3, DETAIL 15
 - CONSTRUCTION FENCE
 - DIRECTIONAL FLOW ARROW
 - STABILIZED CONSTRUCTION ENTRANCE/EXIT
 - POTENTIAL CONSTRUCTION STAGING AREA FOR MATERIALS STOCKPILE AND EQUIPMENT STORAGE (SEE NOTE)
 - POTENTIAL CONCRETE WASHOUT

REVISIONS			
NO.	DESCRIPTION	DATE	BY

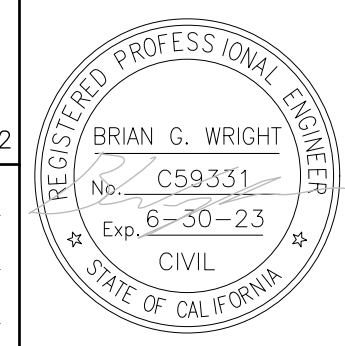
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FIELD BOOK
 CITY# 400164
 SCALE
 HORIZ. 1"=20'
 VERT. _____

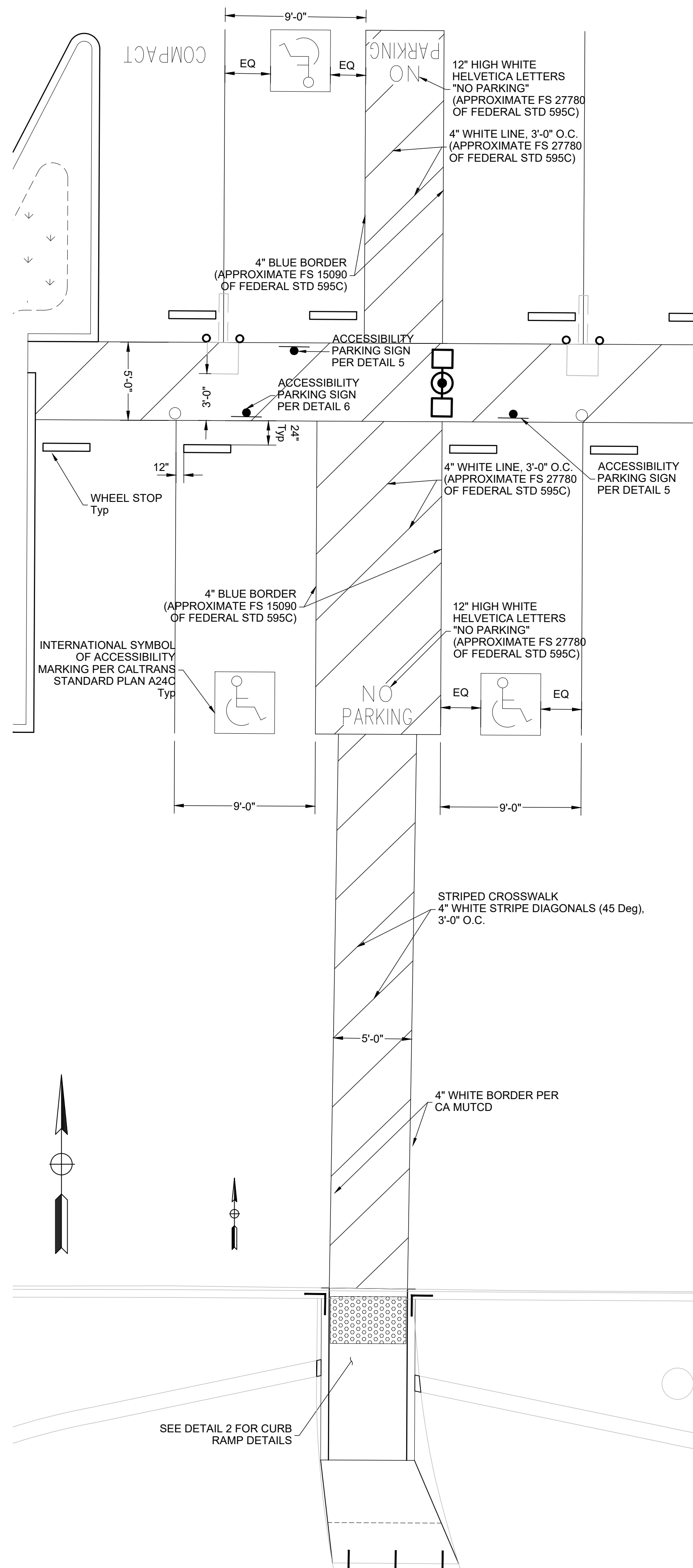


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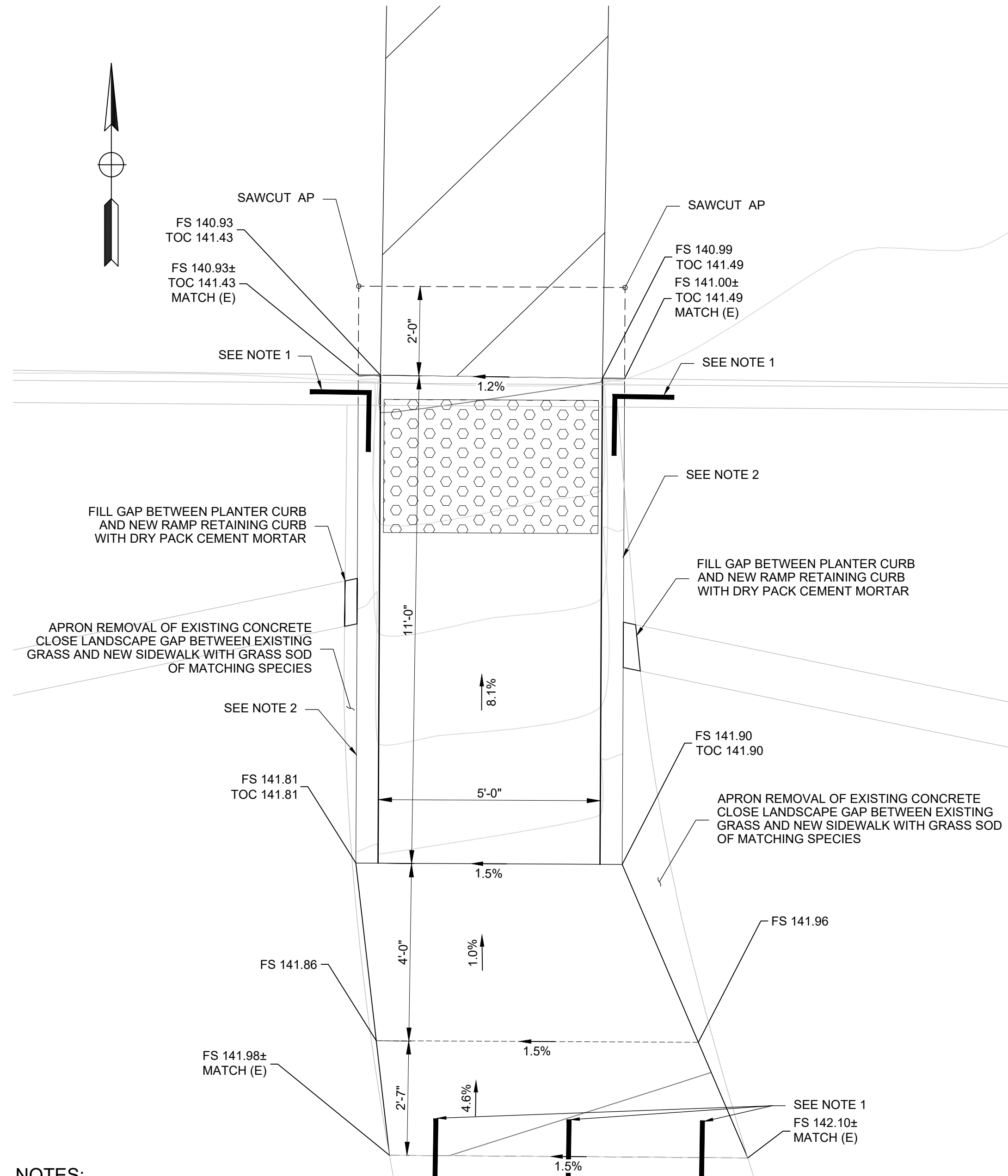
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**CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT
 EROSION CONTROL PLAN**

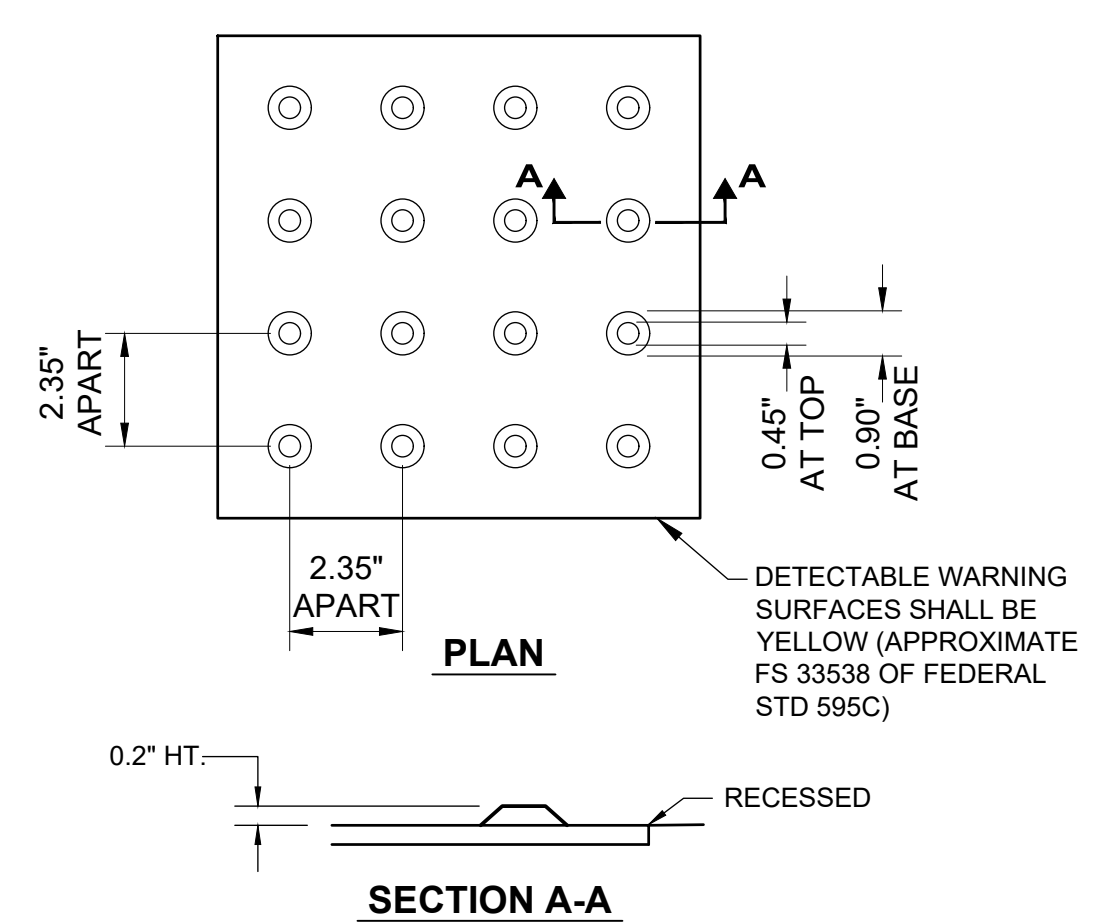


1 DOUBLE ACCESS PARKING STALLS AND CROSSWALK
SCALE: 1:5

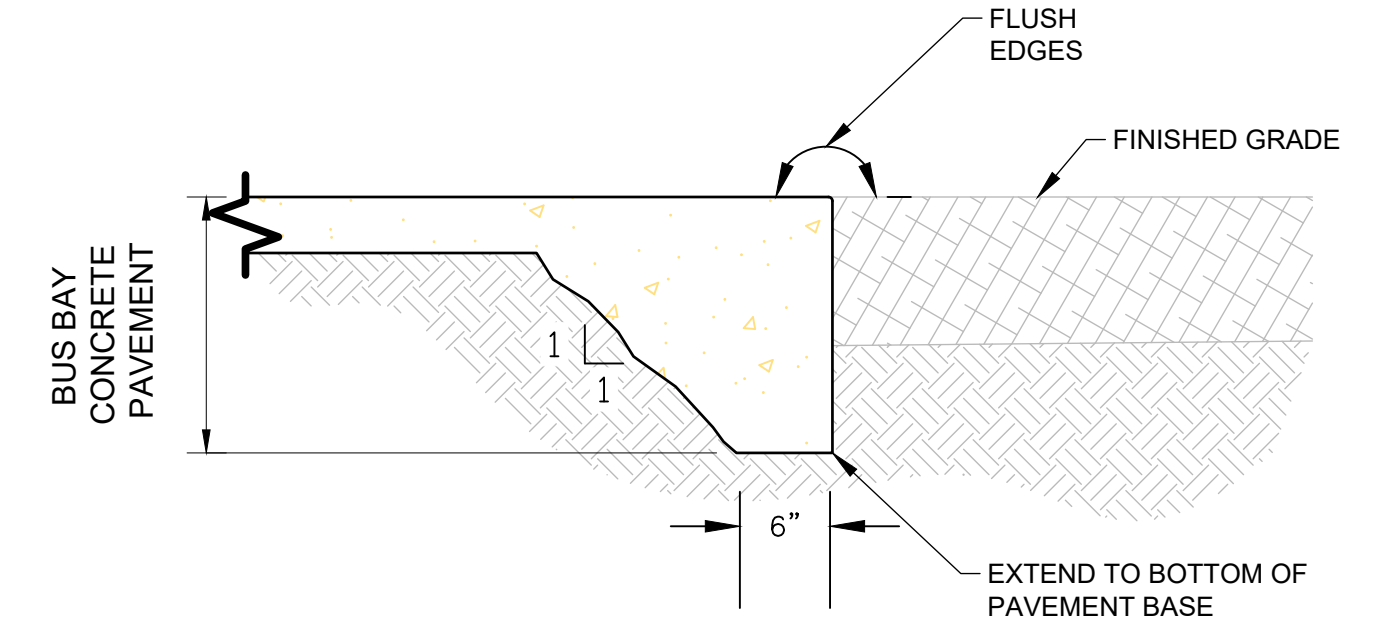


- NOTES:**
1. DOWEL PER CITY STANDARDS SECTION 71-4.C.11
 2. 6" WIDE RETAINING CURB BOTTOM OF CURB TO MATCH BOTTOM OF THE CURB RAMP. RAMP AND RETAINING CURB TO BE POURED MONOLITHICALLY.

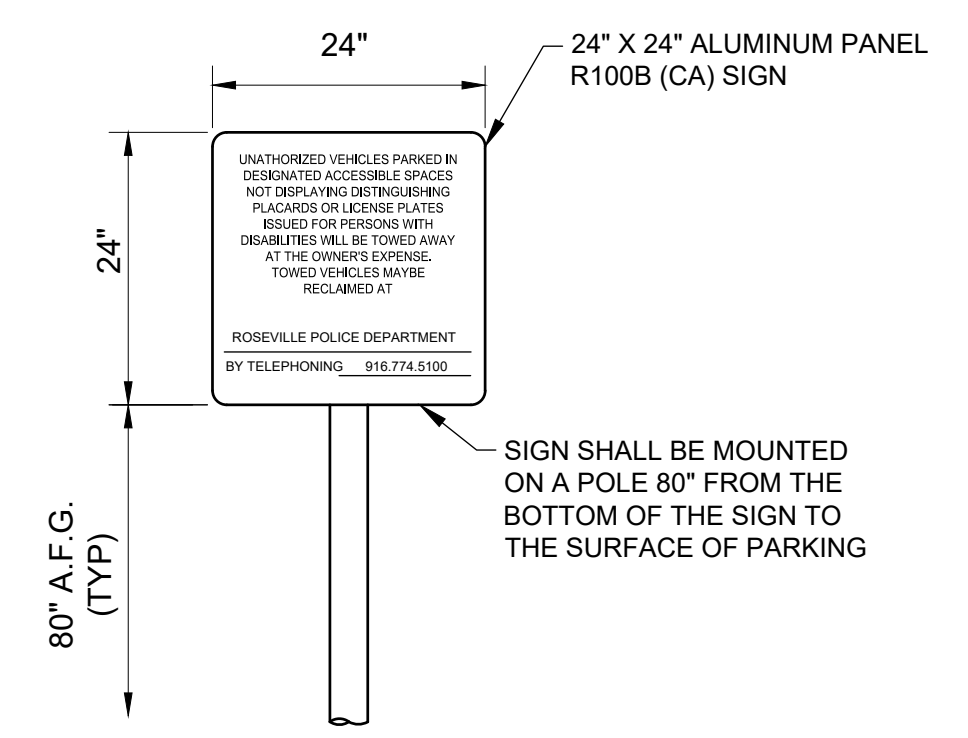
2 CURB RAMP AT LIGHT DUTY PARKING LOT
SCALE: 1:2



3 DETECTABLE WARNING SURFACE
NOT TO SCALE

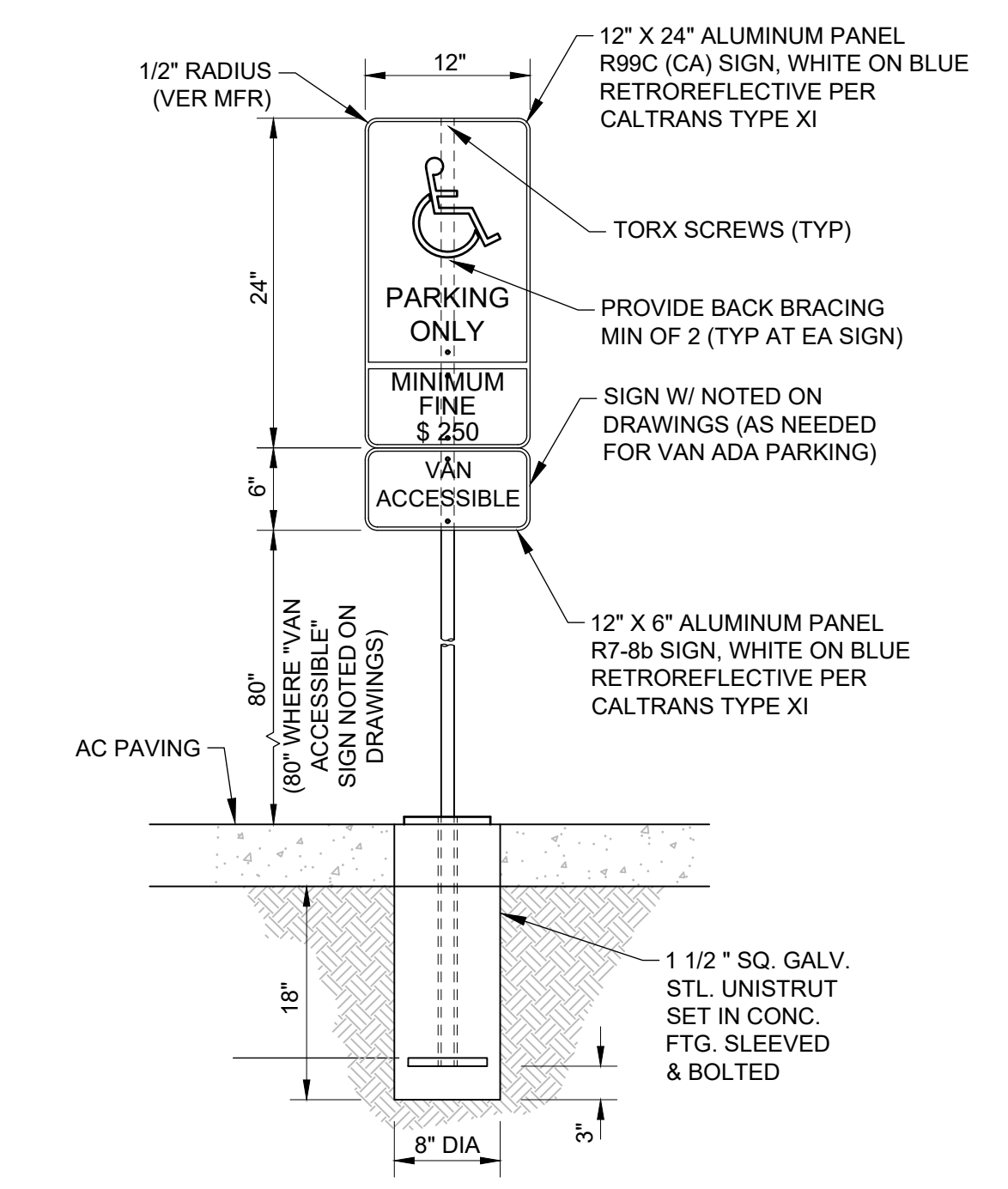


4 THICKENED EDGE PAVEMENT SECTION



1. LETTERING SYMBOL AND BORDER SHALL BE BLACK ON A REFLECTORIZED WHITE BACKGROUND.
2. ATTACH SIGN WITH TWO PIECES 8C-7 DIE CAST ALUMINUM SIGN CLAMPS.
3. CONTRACTOR SHALL PROVIDE TELEPHONE NUMBER AND LOCATION PRIOR TO PRINTING OF SIGN

5 SITE ACCESSIBILITY TOW AWAY SIGN
NOT TO SCALE



6 ACCESSIBILITY PARKING SIGNAGE
NOT TO SCALE

Xrefs: ZEBD-C-BORDER\ZEBD-C-SITE\TPG-HilltopBusDepot\TPG-HilltopBusDepot_DEMO\ZEBD-C-TOPO-ADDITIONS
images: BMP_5.jpg|BMP_6.jpg|DR_22.jpg|ST_38a.jpg|W_13.png|W_3.jpg|W_16.jpg|cropped_COR_black_logo.tif

NO.	REVISIONS	DATE	BY

BENCH MARK	ELEV.	SEE NOTES

FIELD BOOK CITY# 400164

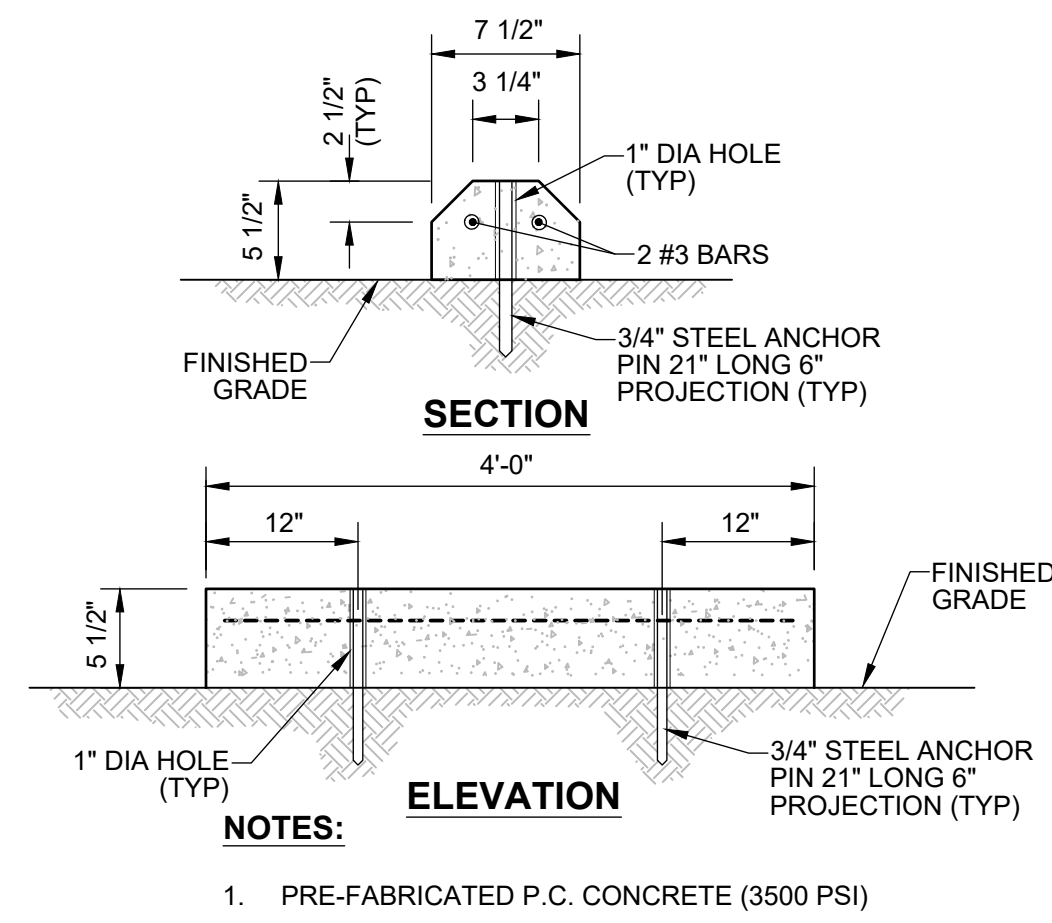
SCALE
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VERT. _____

PSOMAS

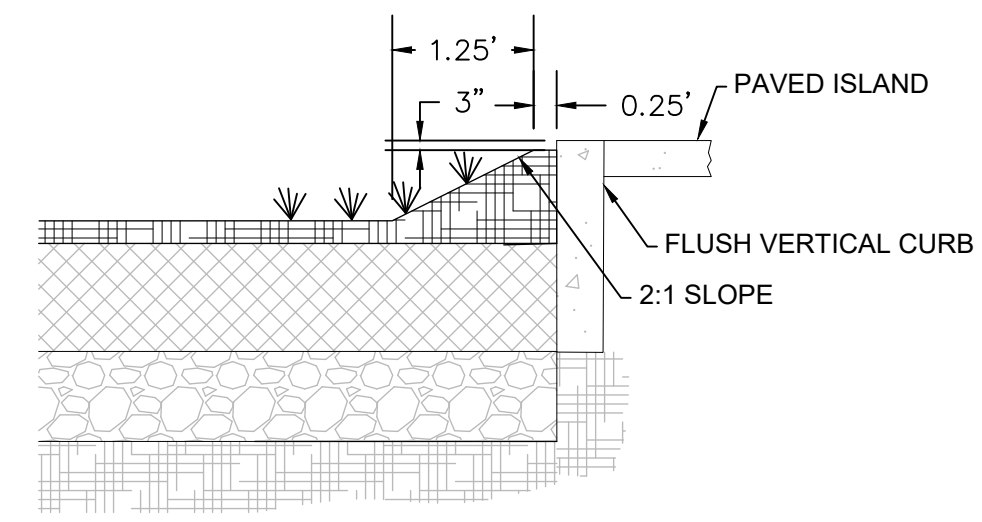
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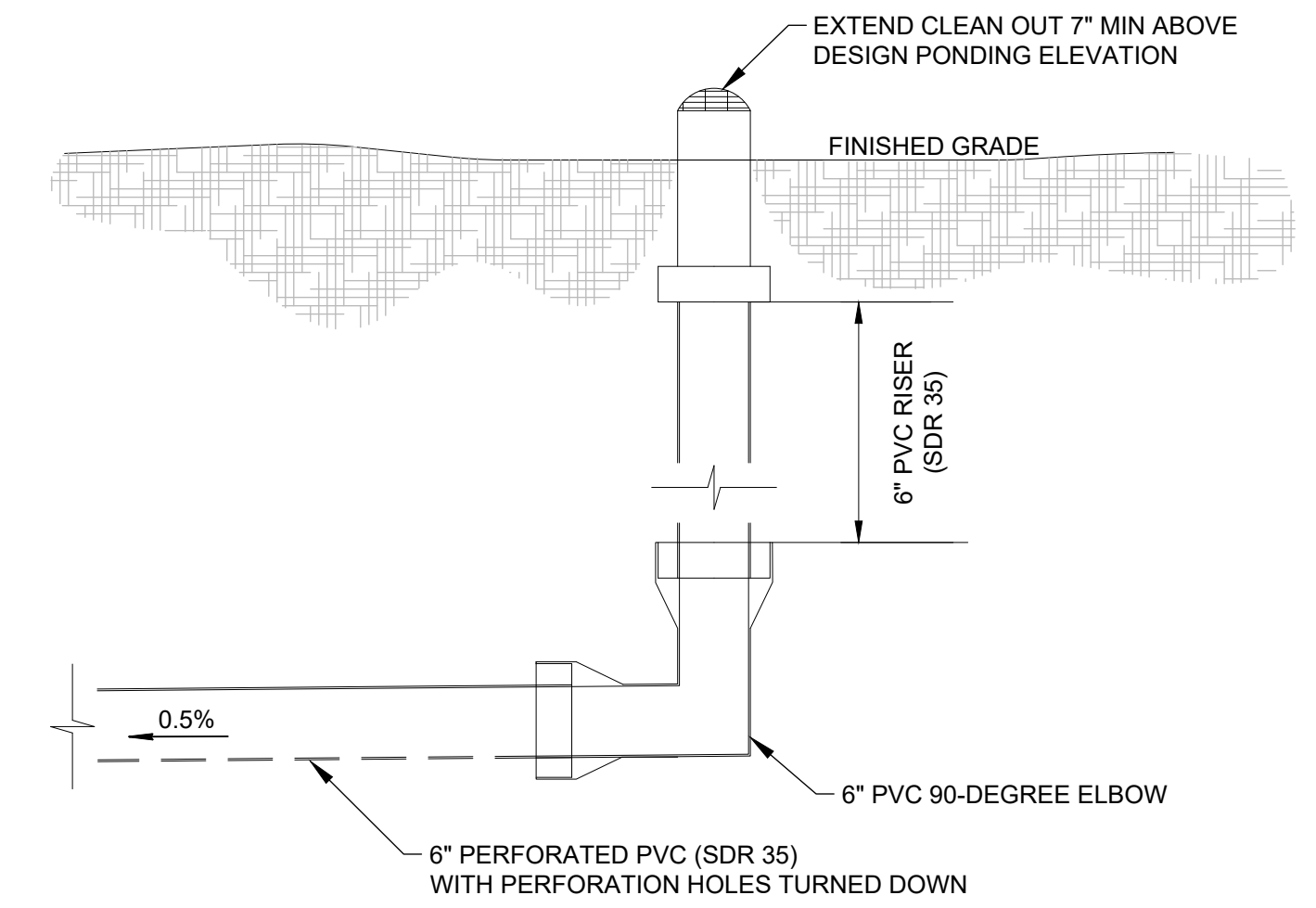
CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
CONSTRUCTION DETAILS



7 CONCRETE WHEEL STOP
NOT TO SCALE

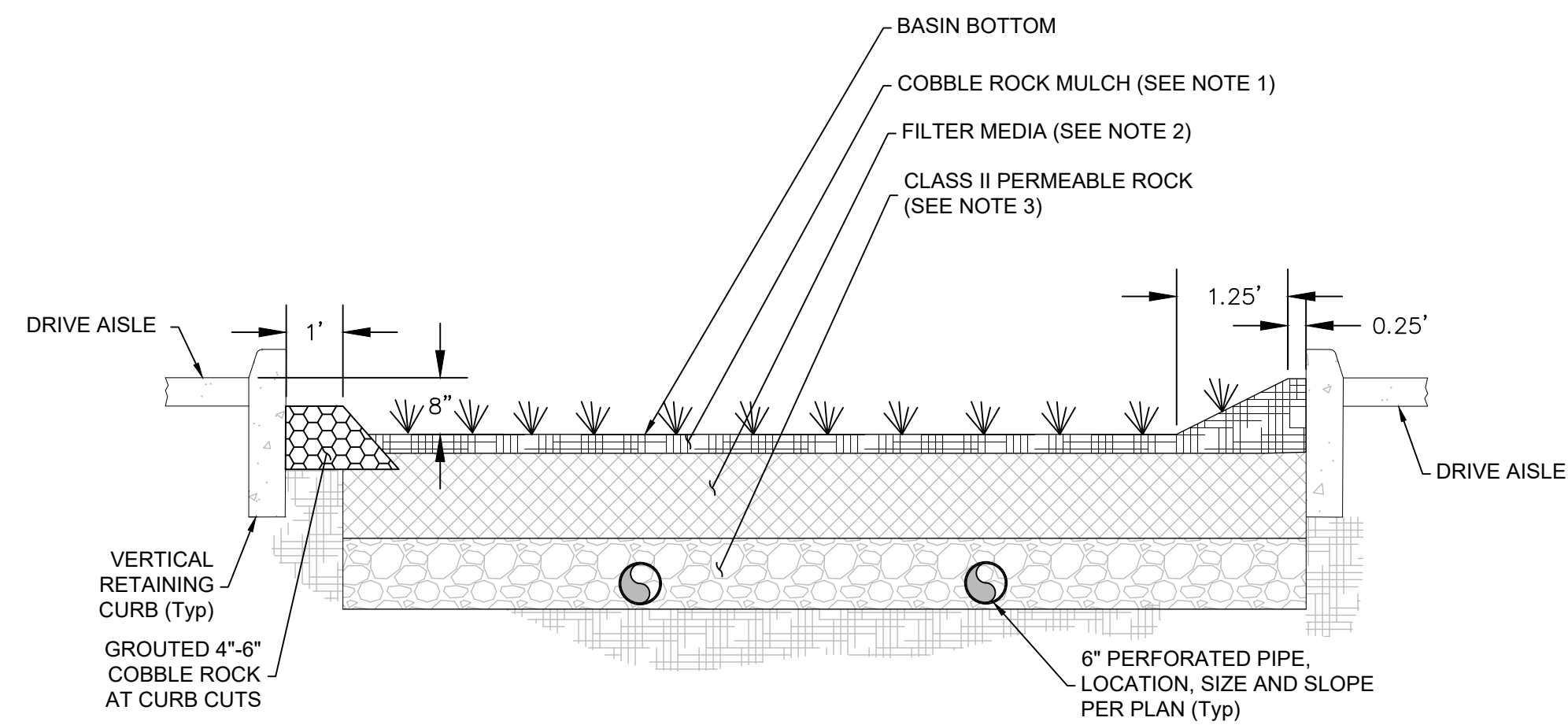


10 SECTION A-A: FLUSH CURB AT BIOFILTRATION AREA
NOT TO SCALE



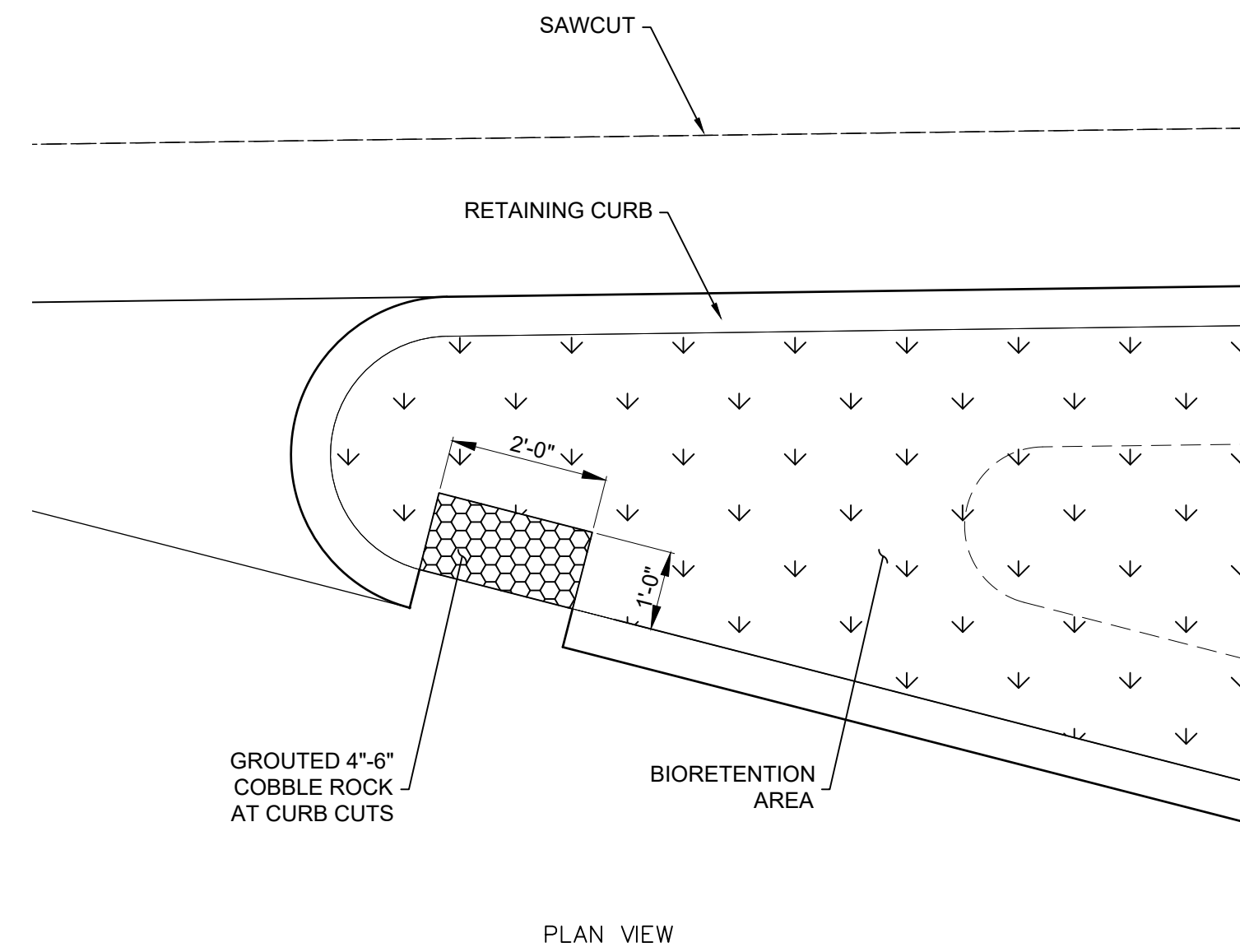
- NOTES:**
1. INSTALL ROUND NON-TRAFFIC TYPE CONCRETE VALVE BOX & COVER MARKED "DRAIN C/O" IN A NON-TRAFFIC AREA.
 2. CLEANOUT BOX TO BE FREE OF ALL DIRT AND READY AT TIME OF PRE-FINAL INSPECTION
 3. BUILDING CONTRACTOR SHALL SET BOX TO FINISH GRADE AND INSTALL A PVC THREADED PLUG SET 3" BELOW THE SURFACE PRIOR TO BUILDING PRE-FINAL.

12 PERFORATED PIPE CLEAN OUT
NOT TO SCALE

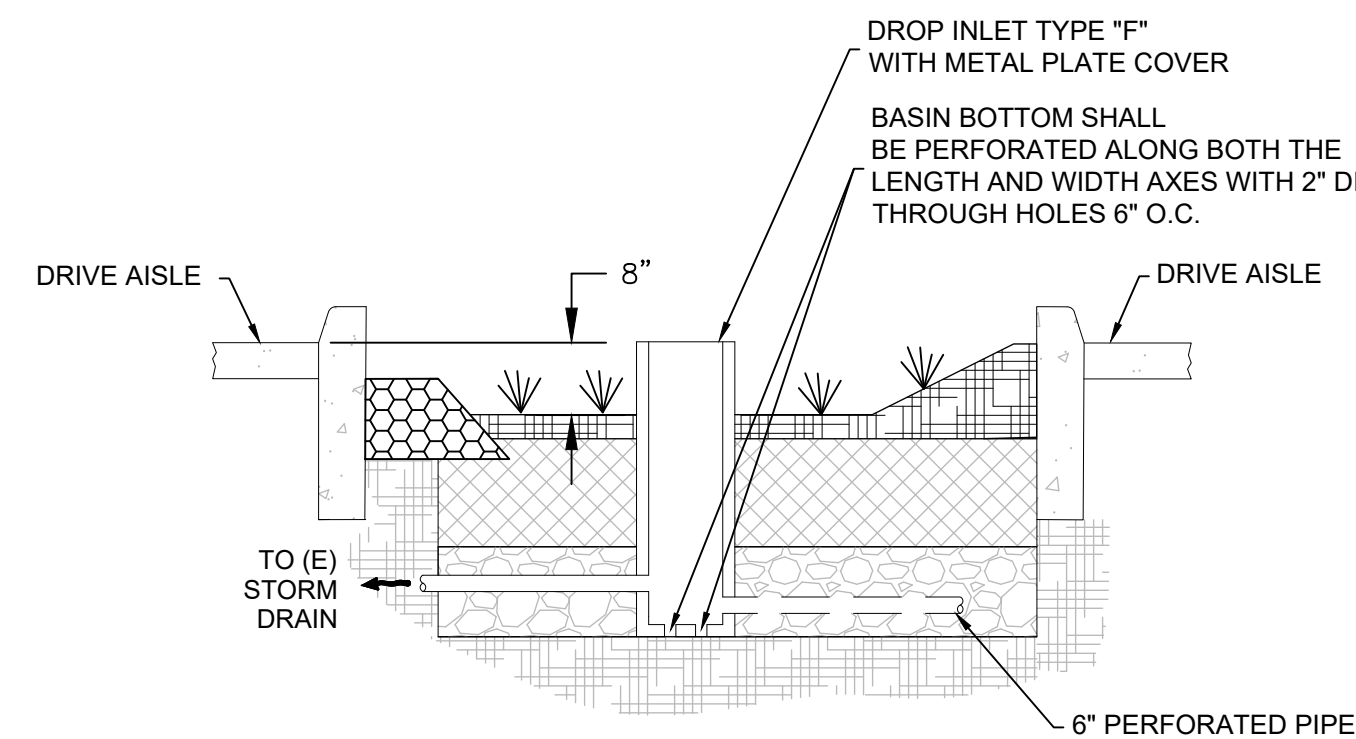


- NOTES:**
1. 3" - 6" COBBLE ROCK MULCH. SEE LANDSCAPE PLANS
 2. 24" BIORETENTION SOIL MIX (MINIMUM INFILTRATION RATE OF 5" PER HOUR).
 3. 12" (MIN) 3/4" WASHED DRAIN ROCK.
 4. 6" DIAMETER PERFORATED PIPE.

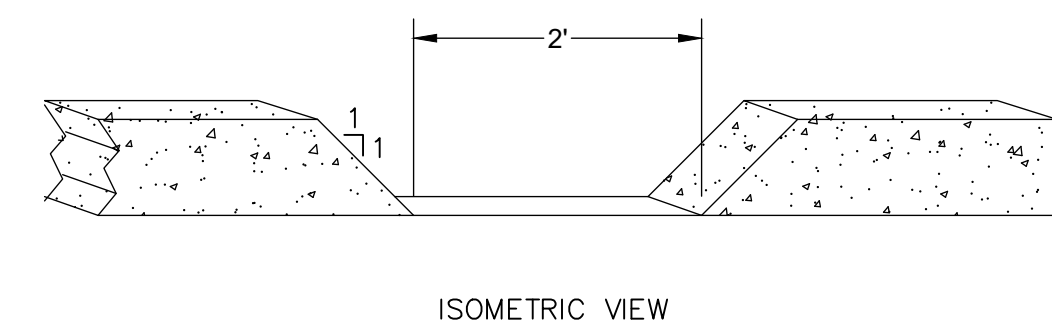
8 BIOFILTRATION BASIN SECTION
NOT TO SCALE



PLAN VIEW



9 OVERFLOW STRUCTURE DETAIL
NOT TO SCALE



ISOMETRIC VIEW

11 CURB CUT AND GROUTED COBBLE ROCK DETAIL
NOT TO SCALE

Xrefs: ZEBD-C-BORDER\ZEBD-C-SITE\TPG-HilltopBusDepot\TPG-HilltopBusDepot_DEMO\ZEBD-C-TOPO-ADDITIONS
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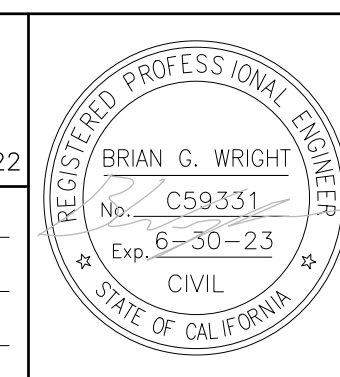
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. SEE NOTES
THE VERTICAL DATUM OF THIS MAPPING IS BASED ON THE CITY OF ROSEVILLE BENCHMARKS 65, 66, 85, AND 90, ADJUSTED TO NAVD88 BY ADDING A PROJECT FACTOR OF +2.16 FEET.

FIELD BOOK
CITY# 400164
SCALE
HORIZ. 1"=20'
VERT. _____

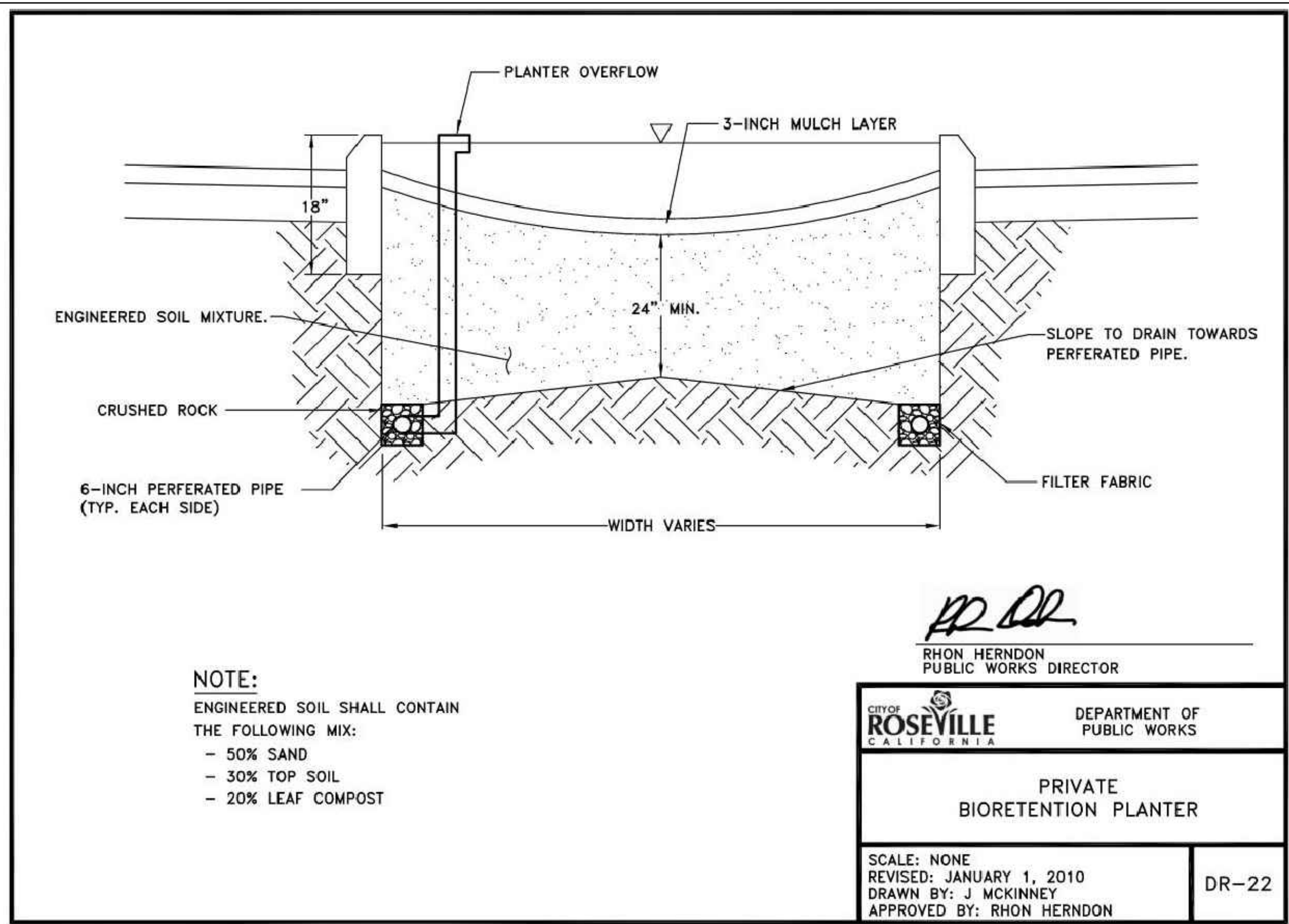


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DESIGNED BY: MEGAN BUCHE DATE 9/2021
CHECKED BY: BRIAN WRIGHT DATE 9/2021
DRAWN BY: CHARUNI KURUMBALAPITIA DATE 9/2021



**CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
CONSTRUCTION DETAILS**

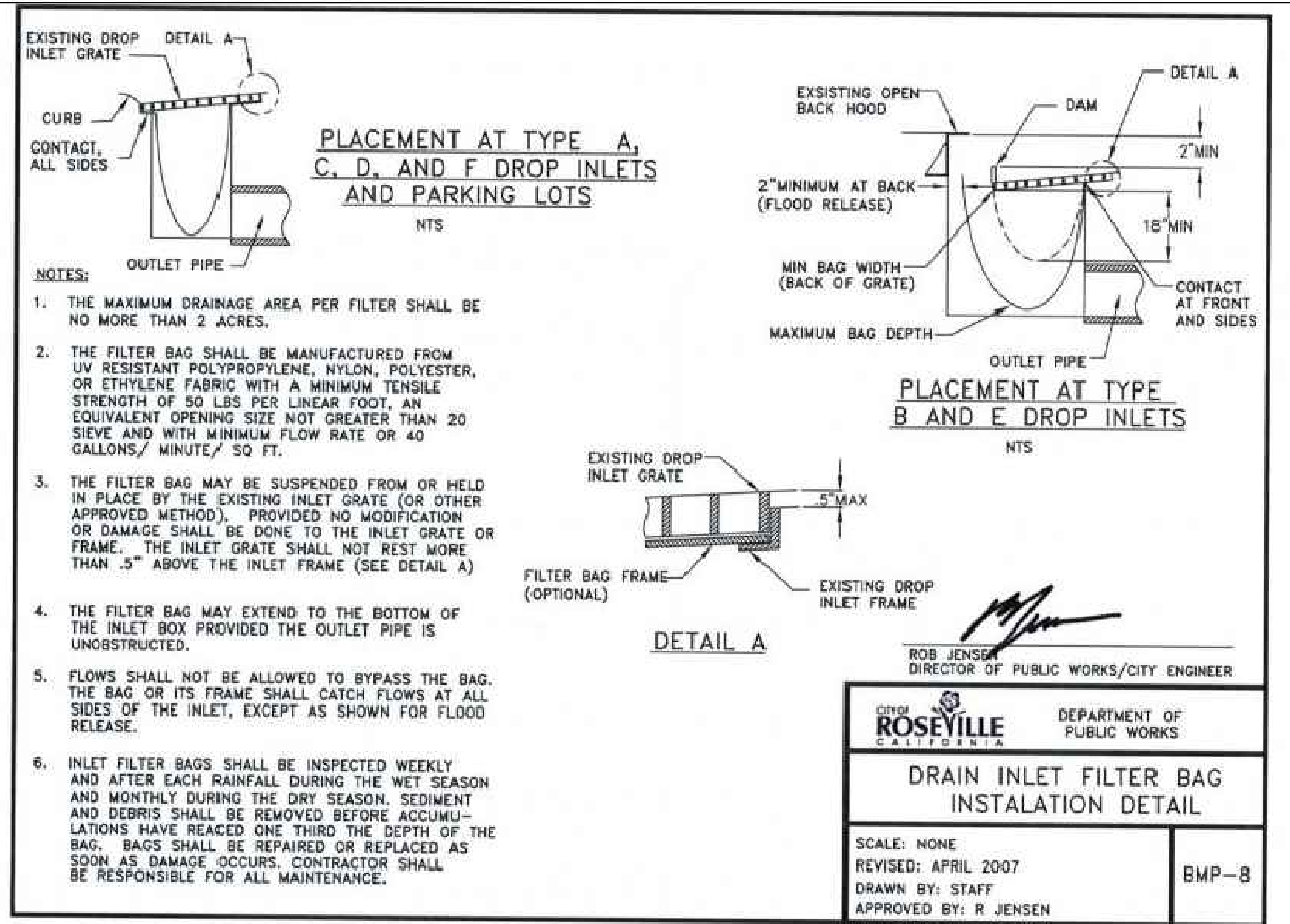
CD-2
SHEET 14
OF 47



RH Herndon
RHON HERNDON
PUBLIC WORKS DIRECTOR

CITY OF ROSEVILLE CALIFORNIA	DEPARTMENT OF PUBLIC WORKS
PRIVATE BIORETENTION PLANTER	
SCALE: NONE REVISED: JANUARY 1, 2010 DRAWN BY: J MCKINNEY APPROVED BY: RHON HERNDON	DR-22

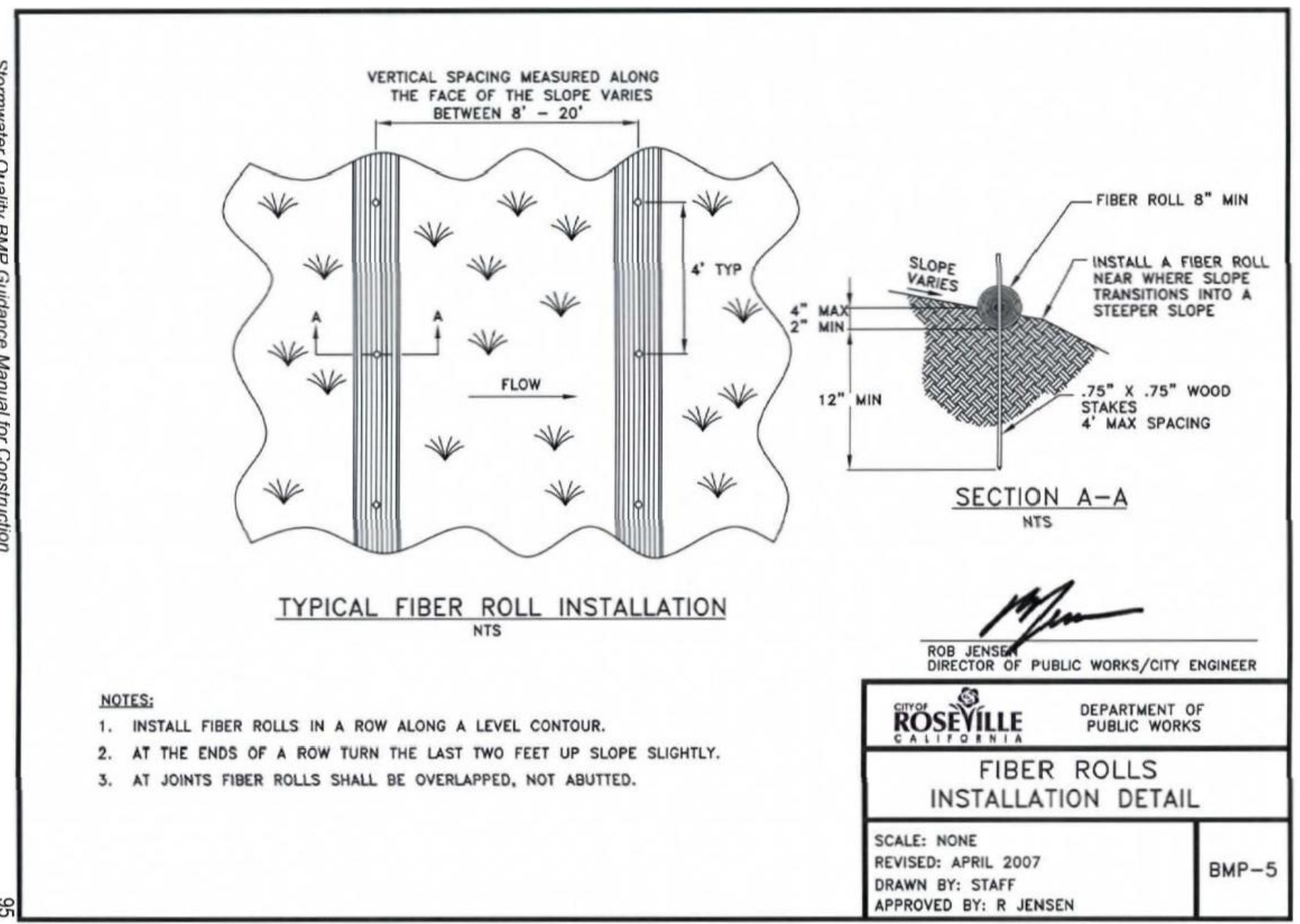
17 PLANTER OVERFLOW INSTALLATION DETAIL
NOT TO SCALE



Rob Jensen
ROB JENSEN
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER

CITY OF ROSEVILLE CALIFORNIA	DEPARTMENT OF PUBLIC WORKS
DRAIN INLET FILTER BAG INSTALLATION DETAIL	
SCALE: NONE REVISED: APRIL 2007 DRAWN BY: STAFF APPROVED BY: R JENSEN	BMP-8

19 DRAIN INLET FILTER BAG INSTALLATION DETAIL
NOT TO SCALE



Rob Jensen
ROB JENSEN
DIRECTOR OF PUBLIC WORKS/CITY ENGINEER

CITY OF ROSEVILLE CALIFORNIA	DEPARTMENT OF PUBLIC WORKS
FIBER ROLLS INSTALLATION DETAIL	
SCALE: NONE REVISED: APRIL 2007 DRAWN BY: STAFF APPROVED BY: R JENSEN	BMP-5

18 FIBER ROLLS INSTALLATION DETAIL
NOT TO SCALE

Xrefs: ZEBD-C-BORDER\ZEBD-C-SITE\TPG-HilltopBusDepot\TPG-HilltopBusDepot_DEMO\ZEBD-C-TOPO-ADDITIONS
images: BMP_5.jpg|BMP_6.jpg|DR_22.jpg|ST_38a.jpg|W-13.png|W-3.jpg|W-16.jpg|cropped_COR_black_logo.tif

NO.	DESCRIPTION	DATE	BY

BENCH MARK	ELEV. SEE NOTES	FIELD BOOK
THE VERTICAL DATUM OF THIS MAPPING IS BASED ON THE CITY OF ROSEVILLE BENCHMARKS 65, 66, 85, AND 90, ADJUSTED TO NAVD88 BY ADDING A PROJECT FACTOR OF +2.16 FEET.		
SCALE		VERT. 1"=20'
HORIZ. 1"=20'		

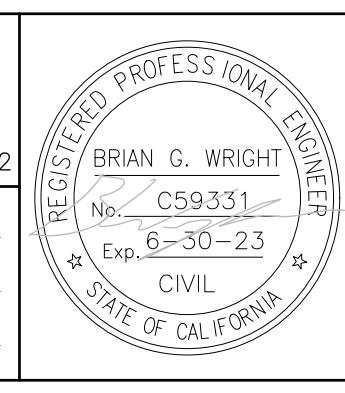
CITY# 400164

CITY OF ROSEVILLE
CALIFORNIA

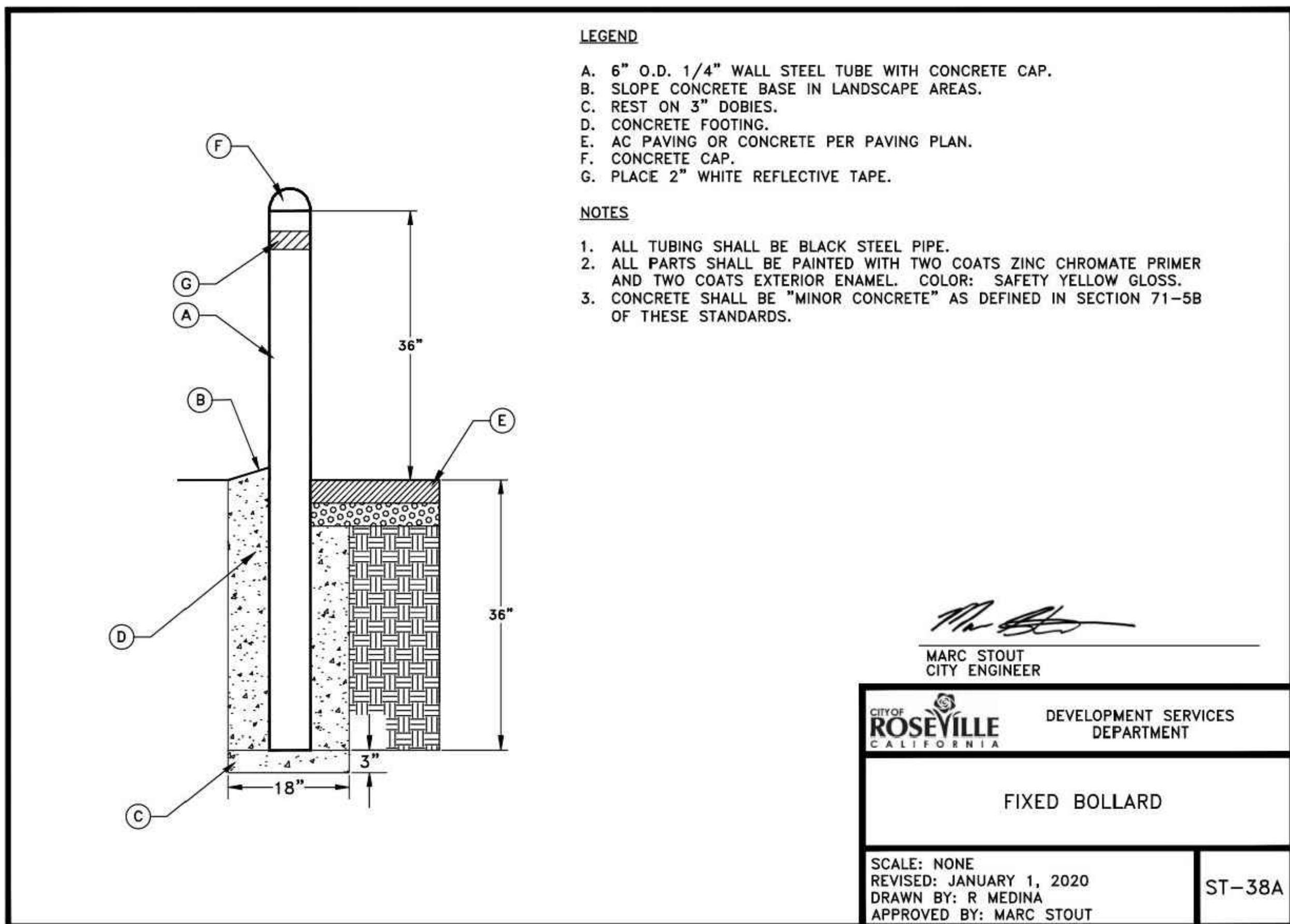
PSOMAS

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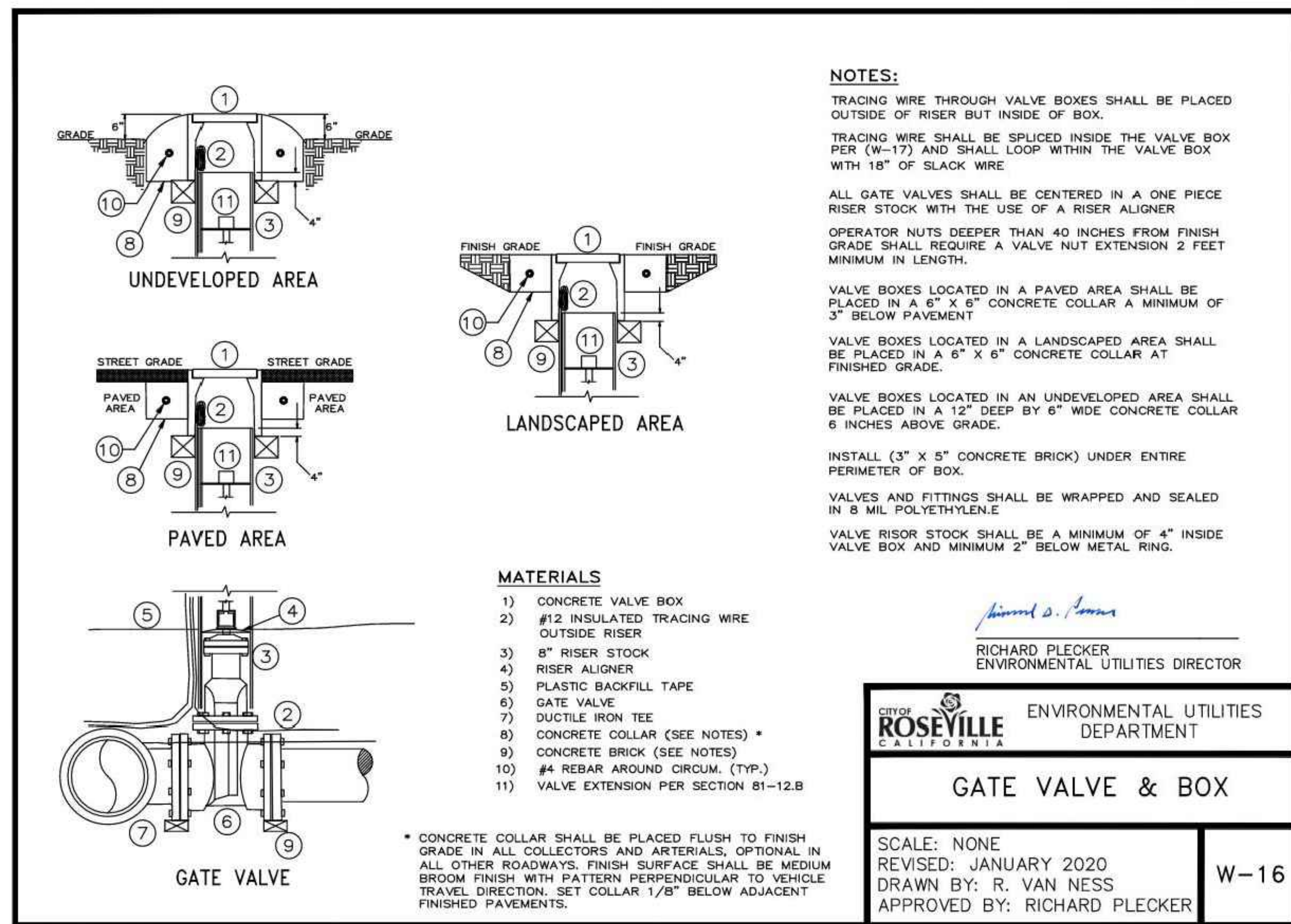
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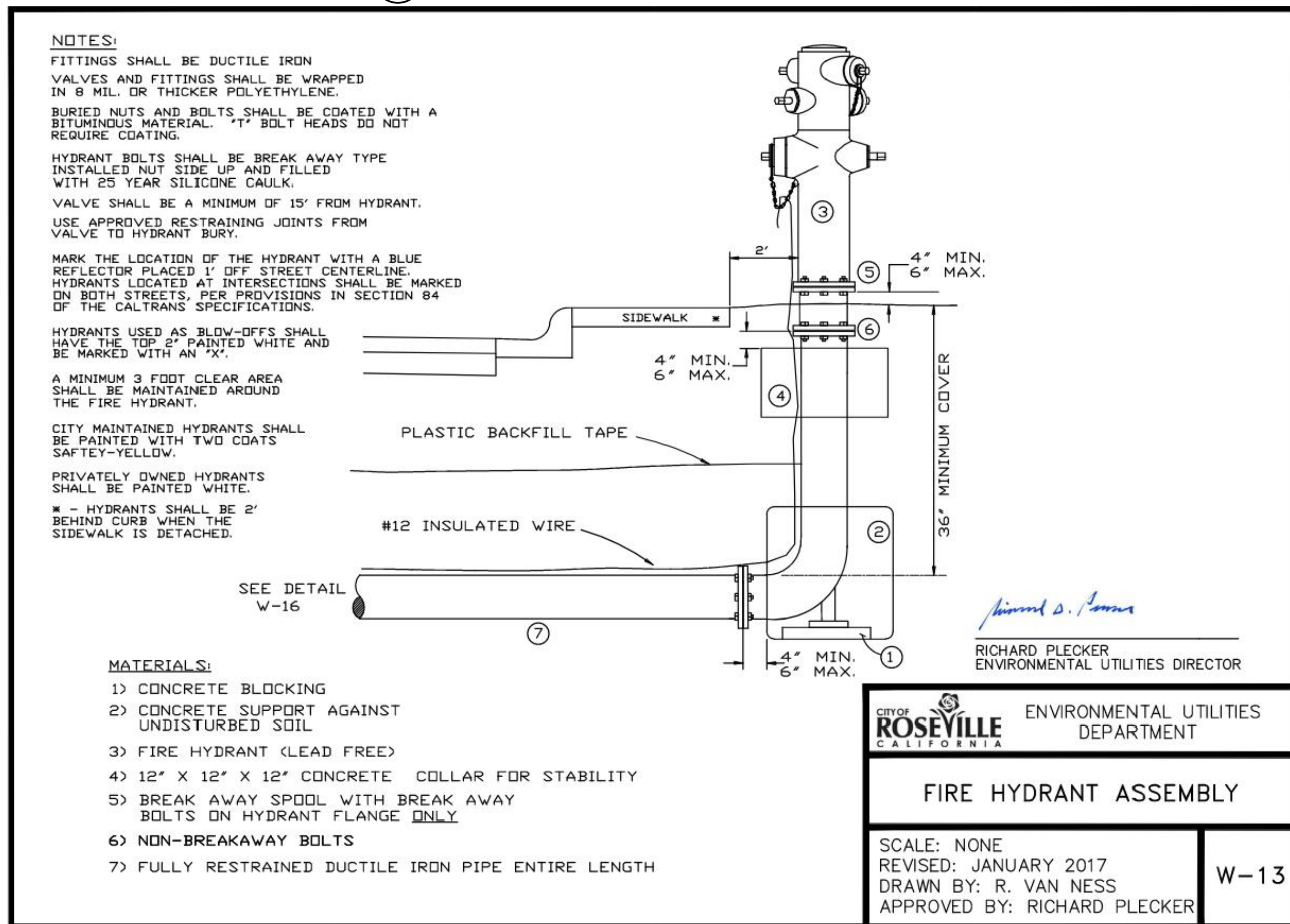
**CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
CONSTRUCTION DETAILS**



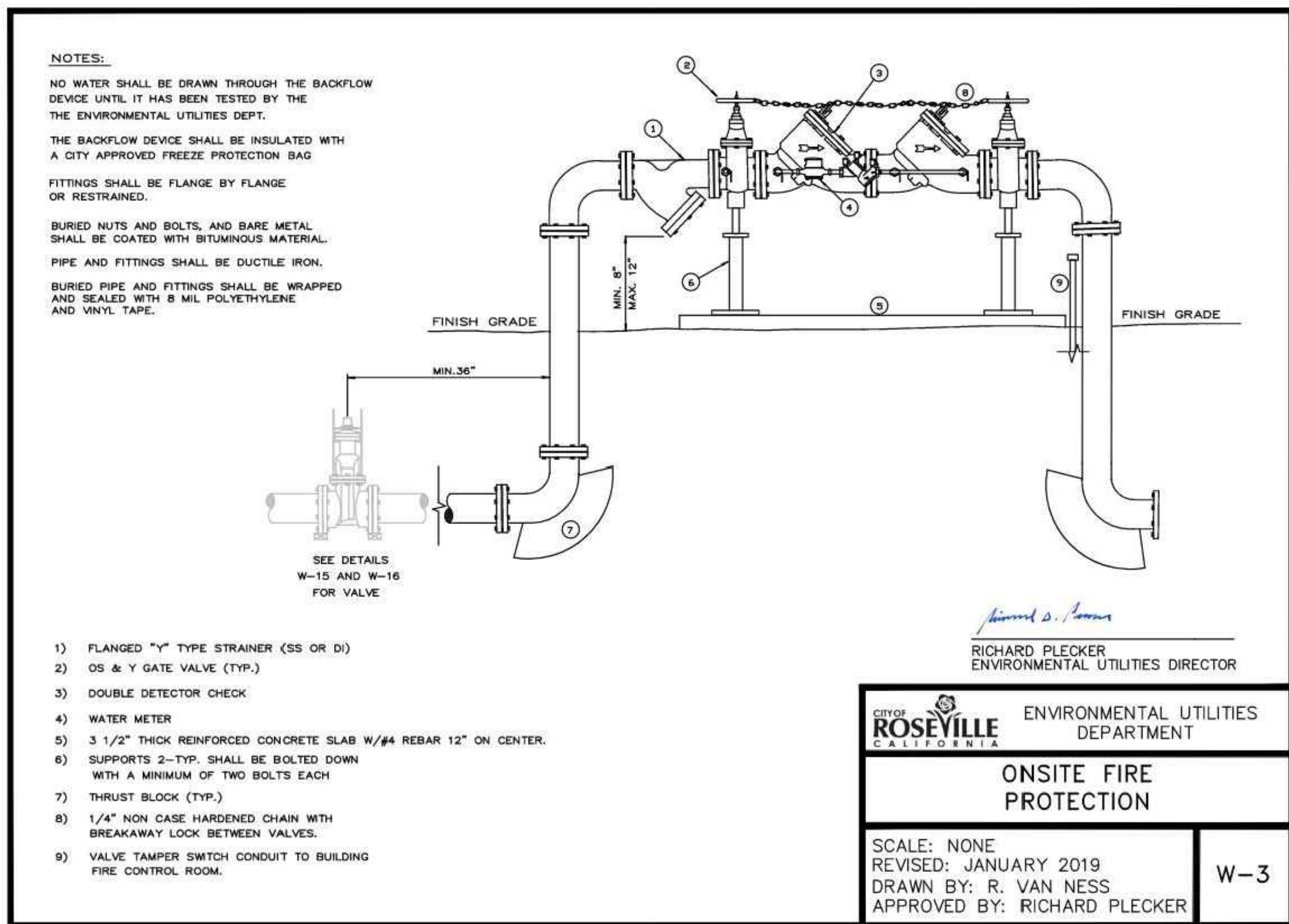
13 BOLLARD
NOT TO SCALE



15 GATE VALVE & BOX
NOT TO SCALE



14 FIRE HYDRANT ASSEMBLY
NOT TO SCALE



16 FIRE PROTECTION ASSEMBLY
NOT TO SCALE

Xrefs: ZEBD-C-BORDER/ZEED-C-SITEV-TFC-HilltopBusDepotV-TPO-HilltopBusDepot_DEMO/ZEED-C-TOPO-ADDITIONS images: BMP_5.jpg|BMP_6.jpg|DR_22.jpg|ST_38A.jpg|W-13.png|W-3.jpg|cropped_CDR_black_logo.tif

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BENCH MARK ELEV. SEE NOTES

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CITY OF ROSEVILLE CALIFORNIA

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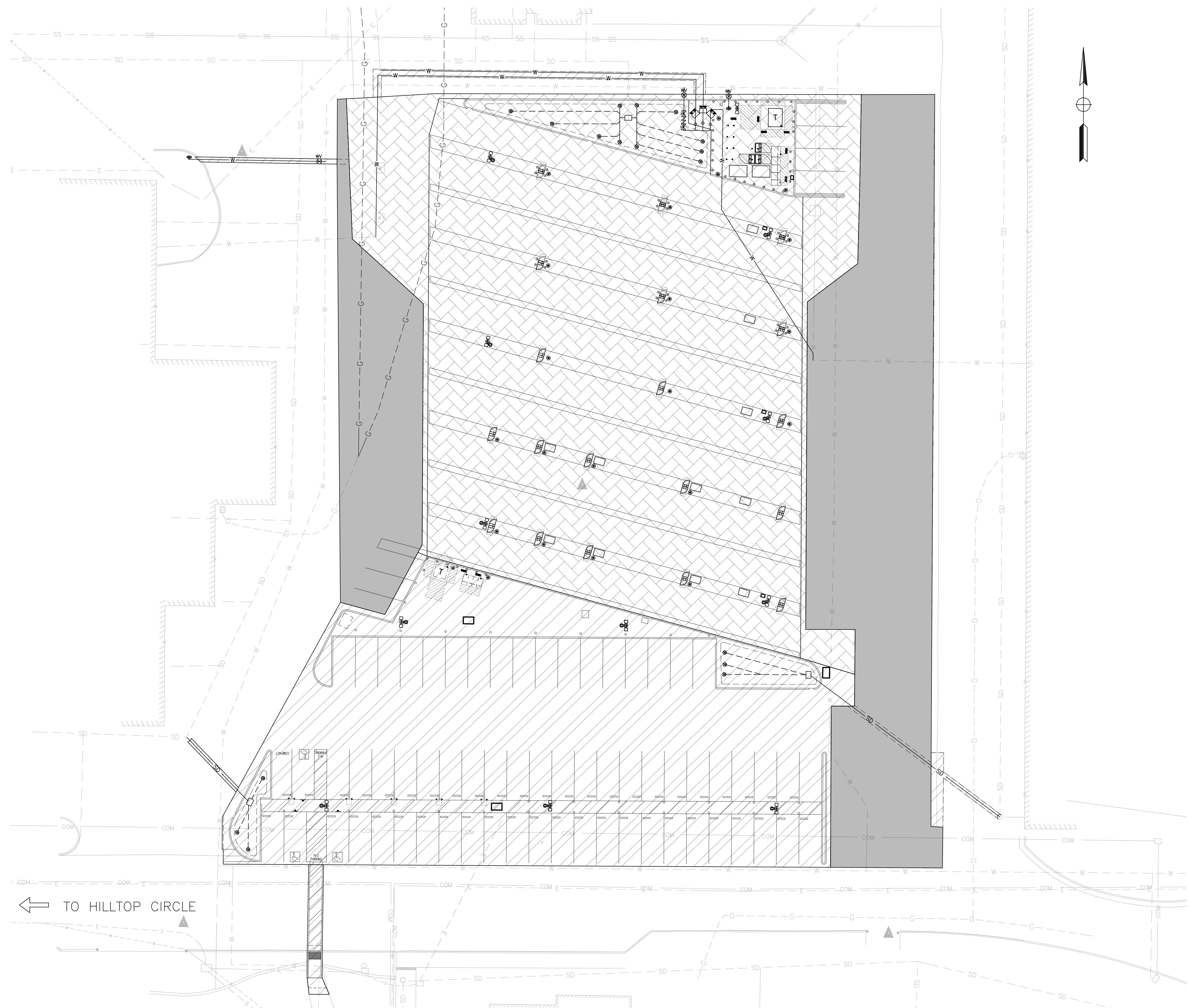
DRAWN BY: CHARUNI KURUMBALAPITIYA DATE: 9/2021

BRIAN G. WRIGHT
No. C59331
Exp. 6-30-23
CIVIL
STATE OF CALIFORNIA

CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
CONSTRUCTION DETAILS

SHEET 15 OF 47

CD-3



NOTES:

1. SEE SITE PLAN AND UTILITY PLAN FOR SITE-SPECIFIC FEATURES AND UTILITY INFORMATION NOT SHOWN ON THIS SHEET.
2. INSTALL CONDUITS AND ELECTRICAL WIRING FOR CHARGING EQUIPMENT PRIOR TO CONSTRUCTION OF NEW PAVEMENT. SEE SHEETS EC-1-4 FOR ELECTRICAL LAYOUT
3. MAINTAIN ACCESS TO DRIVEWAYS FOR ON-SITE BUS CIRCULATION PATH DURING CONSTRUCTION
4. CONTRACTOR TO MAINTAIN ACCESS TO FIRE FLOW EQUIPMENT DURING CONSTRUCTION.
5. CONTRACTOR TO MAINTAIN 10 PARKING SPOTS ON THE EAST SIDE ONLY DURING STAGE 1.
6. CONTRACTOR TO PROVIDE JPCP TRANSVERSE JOINT PLACEMENT PLAN.

STAGE 1 CONSTRUCTION NOTES:

1. EXCAVATE GRASSY KNOLL AND DEMO EXISTING FEATURES (SEE SHEET D-1) AND PLACE ALL UNDERGROUND UTILITIES AND NEW ELECTRICAL CONDUIT AT BUS AND LIGHT DUTY FLEET PARKING LOTS
2. CONSTRUCT LIGHT DUTY PARKING LOT, LANDSCAPED MEDIAN, SOUTHWEST AND SOUTHEAST BIORETENTION AREAS, AND CURB RAMP.
3. INSTALL FLEET PARKING AND CROSSWALK STRIPING, AND ELECTRICAL CHARGING EQUIPMENT.

STAGE 2 CONSTRUCTION NOTES:

1. CONSTRUCT BUS PARKING LOT, NORTHERN BIORETENTION AREA AND INSTALL RELOCATED FIRE DEPARTMENT CONNECTIONS.

STAGE 3 CONSTRUCTION NOTES:

1. RELOCATE ITEMS TO FINAL LOCATION
2. COLD PLANE AND PLACE HMA OVERLAY BETWEEN SAWCUT AND COLD PLANE LIMITS

LEGEND:

- WORK DONE - STAGE 1
- WORK DONE - STAGE 2
- WORK DONE - STAGE 3

Xrefs: ZEBD-C-BORDER\ZEBD-X-UTIL\ZEBD-C-UTIL\ZEBD-C-SITE\ZEBD-X-UTIL -DEMO\TPG-HilltopBusDepot\TPG-HilltopBusDepot_DEMO\ZEBD-C-TOPO-ADDITIONS\Aerial\ZEBD-C-UTIL Images: cropped_Cor_block_logo.tif

NO.	DESCRIPTION	DATE	BY

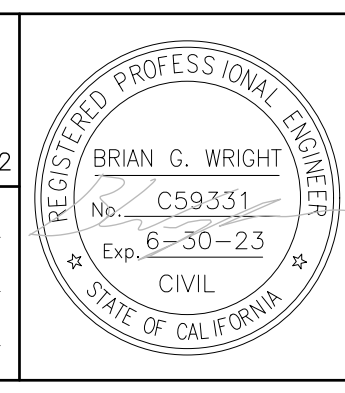
BENCH MARK ELEV. SEE NOTES
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FIELD BOOK
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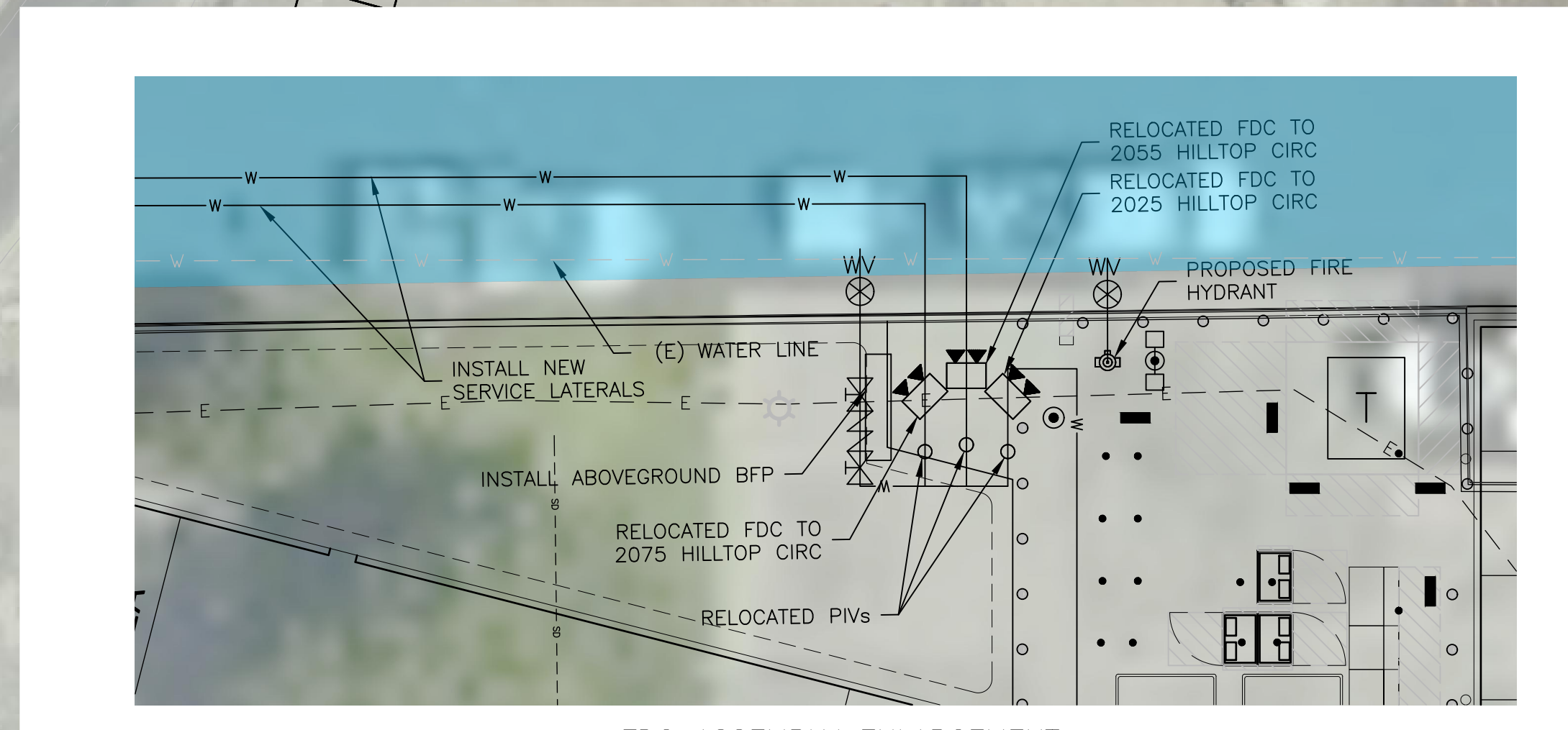


**CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT
 STAGE CONSTRUCTION PLAN**

SC-1
 SHEET
 17
 OF
 47

- LEGEND**
- FDC FIRE DEPARTMENT CONNECTION
 - PIV POST INDICATOR VALVE
 - BFP BACKFLOW PREVENTER
 - SERVICE COVERAGE OF PROPOSED FIRE HYDRANT
 - - - SERVICE COVERAGE OF (E) FIRE HYDRANT
 - FIRE ACCESS PATH LIMITS

- NOTES:**
1. ASSUME EXISTING BUILDINGS HAVE AUTOMATIC FIRE SPRINKLERS
 2. MIN FIRE FLOW REQUIREMENT DETERMINED TO BE LESS THAN 1500 GPM FOR BASED ON APPENDIX B, TABLE 105.2, FOOTNOTE b.



FDC ASSEMBLY ENLARGEMENT

Xrefs: ZEBD-C-BORDER\ZEBD-C-TOPO-ADDITIONS\ZEBD-C-SITE\ZEBD-X-UTIL\Y-TPG-HilltopBusDepot\ZEBD-C-UTIL\Y-TPG-HilltopBusDepot_DCMO Images: cropped_COR_block_logo.tif

REVISIONS			
NO.	DESCRIPTION	DATE	BY

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FIELD BOOK	CITY# 400164
SCALE	HORIZ. 1"=40'
VERT.	

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**CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
FIRE ACCESS PLAN**



FP-1

SHEET 18 OF 47

NOTES:

- SEE SHEET CD-1, DETAIL 1 FOR STRIPING AND SIGNING INFORMATION AT ADA AND VAN ACCESSIBLE PARKING STALLS AND CROSSWALK AT LIGHT DUTY PARKING LOT

LEGEND:

-  ACCESSIBLE ROUTE OF TRAVEL AT LIGHT DUTY PARKING LOT
-  DIRECTION OF TRAVEL



Xrefs: ZEBD-C-BORDER\ZEBD-C-TOPO-ADDITIONS\TPC-HilltopBusDepot_DEMO\ZEBD-C-SITE Images: cropped_COR_block_logo.tif

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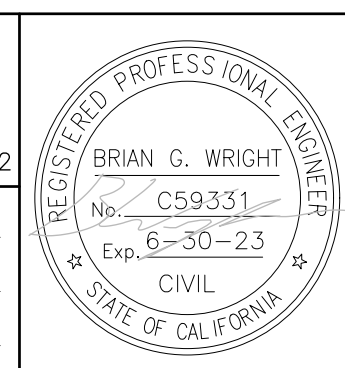
FIELD BOOK
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**CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT
 SITE ACCESSIBILITY PLAN**

Xrefs: x21028.21 bdf JUBstamp
 Images: cropped COR block logo.tif
 UNAUTHORIZED CHANGES & USES:
 M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

ABBREVIATIONS			
A	AMPERES	LV	LOW VOLTAGE
AC	ALTERNATING CURRENT	MAX.	MAXIMUM
A.F.F.	ABOVE FINISHED FLOOR	MDF	MAIN DISTRIBUTION FRAME
A.I.C.	AMPERE INTERRUPTING CAPACITY	MFR.	MANUFACTURER
AMP	AMPERE	MIN.	MINIMUM
AWG	AMERICAN WIRE GAUGE	MTD.	MOUNTED
BKR	BREAKER	N	NEUTRAL
C.	CONDUIT	(N)	NEW
C.B.	CIRCUIT BREAKER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CD	CANDELA	N.I.C.	NOT IN CONTRACT
CKT	CIRCUIT	NL	NIGHT LIGHT
C.O.	CONDUIT ONLY, WITH PULL WIRE	NM	NON-METALLIC CABLE
C.T.	CURRENT TRANSFORMER	PCS	POWER CHARGING SYSTEM
DC	DIRECT CURRENT	PFB	PROVISIONS FOR FUTURE CIRCUIT BREAKER
(E)	EXISTING	PH	PHASE
EL	EVENING LIGHT	(R)	REMOVE
EM	EMERGENCY	(RE)	RELOCATE EXISTING
(ER)	EXISTING RELOCATED	RCPT.	RECEPTACLE
EMT	ELECTRICAL METALLIC CONDUIT	RSVL	ROSEVILLE
EVD	ELECTRIC VEHICLE DISPENSER	S.M.S	SHEET METAL SCREW
EVS	ELECTRIC VEHICLE CHARGING STATION	SWBD	SWITCHBOARD
(F)	FUTURE	SYS	SYSTEM
FACP	FIRE ALARM CONTROL PANEL	TV	TELEVISION
FAPS	FIRE ALARM POWER SUPPLY	TYP.	TYPICAL
FATC	FIRE ALARM TERMINAL CABINET	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
GA.	GAUGE	UG	UNDERGROUND
GND	GROUND	UGPB	UNDERGROUND PULLBOX
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UL	UNDERWRITERS LABORATORY
HP	HORSEPOWER	UNO /	UNLESS NOTED OTHERWISE
HVAC	HEATING, VENTILATING AND AIR CONDITIONING	UON	UNLESS OTHERWISE NOTED
HZ.	HERTZ (CYCLES/SEC)	UP	UNDERGROUND PRIMARY VAULT
Isc	SHORT CIRCUIT CURRENT (AMPS)	USEC	UNDERGROUND SECONDARY VAULT
ISO	ISOLATED	V	VOLT(AGE)(S)
K	THOUSAND	VA	VOLT-AMPERES
KV	KILO VOLT	W	WIRE, WATT
KVA	KILO VOLT AMPERE	WP	WEATHER PROTECTED
KW	KILO WATT	WR	WEATHER RESISTANT
KWH	KILO WATT HOUR	XFMR	TRANSFORMER
LT.	LIGHT		

LUMINAIRE SCHEDULE					
TYPE	MANUFACTURER CATALOG NO.	VOLTAGE DESCRIPTION	LIGHT SOURCE (LED, WATTS, LUMENS, COLOR TEMPERATURE, CRI, R9 IF AVAILABLE)	MOUNTING	REMARK NOTE No.
S2	SIGNIFY - LUMEC ROADSTAR GPLS-48L1050NW-G2-4- UNV-DMG-RCD7-H8-GY3	UNV AREA LUMINAIRE, (2) HEADS, 90" CONFIGURATION	LED, 162W, 15979L, 3000K, 70CRI (PER HEAD), BUG RATING B2-U0-G3	30 FEET POLE MOUNT	①②③
LUMINAIRE SCHEDULE REMARK NOTES: ① FIXTURE SHALL HAVE 0-10V DIMMING POWER SUPPLY. ② PROVIDE MOTION SENSORS FOR FULL COVERAGE. LUMINAIRE TO DIM TO 25%. ③ LABEL LUMINAIRE "SUITABLE FOR DAMP LOCATION" PER 2019 CEC ARTICLE 410. 10(A) & (D). GENERAL NOTE: REFER TO PLAN FOR LOCATION, QUANTITIES, AND SWITCH FUNCTION.					

ELECTRICAL SYMBOL LIST	
	ONE-ARM BRACKET LUMINAIRE, WITH POLE AND BASE. (LETTER "X" INDICATES TYPE, "a" DENOTES SWITCH FUNCTION, "ABC-#" INDICATES PANEL AND CIRCUIT NUMBER - TYPICAL FOR ALL LUMINAIRES UNLESS NOTED OTHERWISE).
	TWO-ARM BRACKET LUMINAIRE, 180 DEGREE ANGLE, WITH POLE AND BASE
	DUPLEX CONVENIENCE OUTLET - NEMA 5-20R +18" AFF TYPICAL FOR ALL CONVENIENCE OUTLETS, UNLESS NOTED OTHERWISE (OUTLETS ABOVE COUNTER MOUNTED HORIZONTALLY AT +44" AFF UNO, TV OUTLETS AT +72" AFF UNO, "+XX" INDICATES MOUNTING HEIGHT OTHER THAN 18", "ABC-#" INDICATES PANEL AND CIRCUIT NUMBER - TYPICAL FOR ALL OUTLETS UNLESS NOTED OTHERWISE).
	CONDUIT RUN CONCEALED IN CEILINGS OR WALLS. NUMBER OF HASH MARKS DENOTES QUANTITY OF WIRES. CURVED HASH MARK DENOTES QUANTITY OF #12 GREEN GROUND WIRES. CONDUCTORS OTHER THAN #12 ARE INDICATED ON PLANS. NO HASH MARKS DENOTES 2 #12 AWG AND 1 #12 GREEN GROUND IN 1/2" CONDUIT. TYPICAL FOR ALL CONDUITS.
	CONDUIT RUN UNDERFLOOR OR UNDERGROUND MINIMUM 1" DIAMETER.
	CONDUIT HOMERUN TO PANELBOARD, SWITCHBOARD OR TERMINAL CABINET
	CONDUIT WITH CAP
	CONDUIT STUB WITH INSULATED BUSHING
	CONDUIT TURNED AND RISEN UP
	CONDUIT TURNED AND DROPPED DOWN
	EXISTING CONDUIT RUN CONCEALED IN CEILINGS OR WALLS. NUMBER OF HASH MARKS DENOTES QUANTITY OF EXISTING WIRES. CURVED HASH MARK DENOTES QUANTITY OF EXISTING GROUND WIRES.
	EXISTING CONDUIT AND WIRING
	EXISTING CONDUIT TO BE REMOVED OR ABANDONED, REMOVE WIRES. COORDINATE WITH OWNER.
	DRAWING SHEET NUMBERED NOTE DESIGNATION - APPLIES TO NUMBERED NOTE ON SAME SHEET
	DRAWING PLAN OR DETAIL DESIGNATION - "1" OR "A" DENOTES PLAN OR DETAIL NUMBER, "E-1" DENOTES SHEET NUMBER
	ELECTRICAL TRANSFORMER, RATING PER SPECIFICATIONS.
	ELECTRICAL PULL BOX. "PB#" INDICATES SIZE CORRESPONDING TO PULL BOX SCHEDULE.
	ELECTRIC POWER CABINET SYSTEM WITH WORKING CLEARANCE SHOWN.
	ELECTRIC VEHICLE DISPENSER & BOLLARDS WITH WORKING CLEARANCE SHOWN.
	DUAL ELECTRIC VEHICLE CAR CHARGER WITH BOLLARDS
SYMBOL LIST NOTES: 1. "ABC-#" INDICATES PANEL AND CIRCUIT NUMBER. 2. MINIMUM CONDUCTOR SIZE FOR 120V BRANCH CIRCUITS SHALL BE #12 AWG. AT A MINIMUM ALL BRANCH CIRCUITS SHALL CONTAIN 3/4"C, 2#12 AWG AND 1#12 GND UNLESS OTHERWISE INDICATED. 3. EXISTING ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE SHOWN THE SAME AS NEW, EXCEPT LIGHTLY AND ACCOMPANIED BY (E). SUCH ELECTRICAL EQUIPMENT, OUTLETS, AND DEVICES ARE TO REMAIN AS IS, UNLESS OTHERWISE NOTED ON PLAN OR SPECIFICATION. 4. VERIFY ON SITE THAT ALL PANELBOARDS HAVE MINIMUM WORKING SPACES PER CODE AND THAT THE DEDICATED PANELBOARD SPACES ARE CLEAR OF ALL DUCTS, PIPING, AND EQUIPMENT FOREIGN TO THE PANEL BOARDS. NOTIFY THE ENGINEER FOR CORRECTIVE ACTION IN THE EVENT THAT FOREIGN OBJECTS IMPEDE THE DEDICATED PANELBOARD AREAS. 5. WHERE CONDUIT STUB IS INDICATED, PROVIDE CONDUIT WITH BUSHING AT THE END OF CONDUIT AND PULL ROPE INTO ACCESSIBLE CEILING AREA.	

ELECTRICAL SHEET INDEX		
No. OF SHEETS	DRAWING No.	DRAWING DESCRIPTIONS
1	E0.01	ELECTRICAL SHEET INDEX, SYMBOL LIST, ABBREVIATIONS, AND GENERAL NOTES
2	E1.00	SITE PLAN - UTILITY UPGRADES
3	E1.01	SITE PLAN - ELECTRICAL DEMOLITION
4	E1.02	PARTIAL SITE PLAN - ELECTRICAL REMODEL
5	E1.03	PARTIAL FLEET SITE PLAN - ELECTRICAL REMODEL
6	E1.04	PARTIAL SITE PLAN - PHOTOMETRIC PLAN
7	E1.05	PARTIAL FLEET SITE PLAN - PHOTOMETRIC PLAN
8	E2.01	ONE-LINE POWER DIAGRAM (N) "MSBB" (BUS)
9	E2.02	ONE-LINE POWER DIAGRAM (N) "MSBF" (FLEET)
10	E2.03	PANEL SCHEDULES
11	E3.01	ELECTRICAL DETAILS
12	E3.02	ELECTRICAL DETAILS
13	E3.03	ELECTRICAL DETAILS
14	E3.04	ELECTRICAL DETAILS
15	E3.05	ELECTRICAL DETAILS
16	E3.06	ELECTRICAL DETAILS
17	E3.07	ELECTRICAL DETAILS
18	E4.01	TITLE 24 - OUTDOOR LIGHTING COMPLIANCE FORMS

**** UNDERGROUND DIGGING CAUTION ****
 USE EXTREME CAUTION WHEN DIGGING TO AVOID BURIED UTILITY CABLES, CONDUITS, AND PIPING. CALL "UNDERGROUND SERVICE ALERT" (U.S.A.):
1-800-642-2444
 TWO WORKING DAYS BEFORE DIGGING TO VERIFY UNDERGROUND UTILITIES.

PROJECT DESCRIPTION
 THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO PROVIDE POWER DISTRIBUTION SERVICE EQUIPMENT FOR (6) ELECTRIC VEHICLE CHARGING SYSTEMS THAT FEED (15) ELECTRIC VEHICLE DISPENSERS FOR ELECTRIC BUSES, AND UNDERGROUND INFRASTRUCTURE FOR (16) ADDITIONAL FUTURE ELECTRICAL BUSES. ALSO PROVIDE CHARGING STATIONS FOR (10) FLEET VEHICLES AND UNDERGROUND INFRASTRUCTURE FOR ALL FUTURE FLEET PARKING. SITE LIGHTING AND CONVENIENCE OUTLETS ALSO PROVIDED THROUGHOUT THE SITE.
 SHOULD ANY CONDITIONS DEVELOP, NOT COVERED BY THE CONTRACT DOCUMENTS, WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH ALL REQUIRED CODES, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO, AND APPROVED BY, THE AGENCY BEFORE PROCEEDING WITH THE WORK.

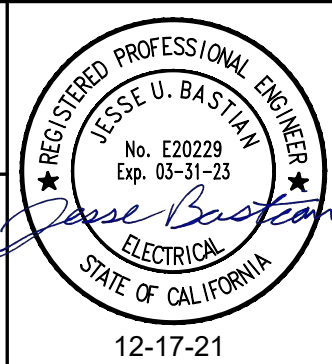
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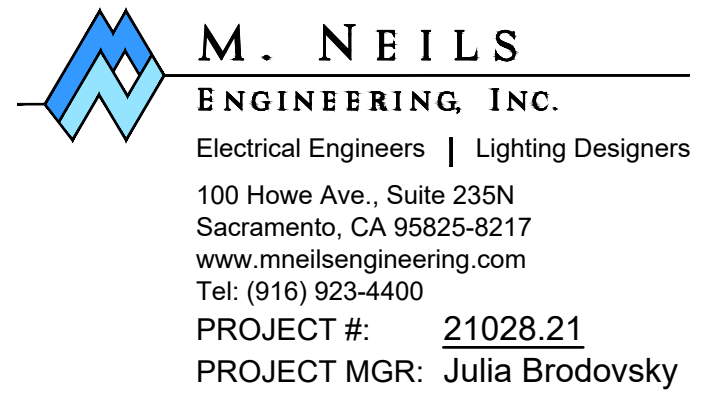


PSOMAS
 1075 Creekside Ridge Way, Suite 200 Roseville, CA 95678 (916) 788-8122
 DESIGNED BY: JULIA BRODOVSKY DATE 12/2021
 CHECKED BY: JESSE BASTIAN DATE 12/2021
 DRAWN BY: WILLIE PUJANES/ BRANDON STEINLEIN DATE 12/2021

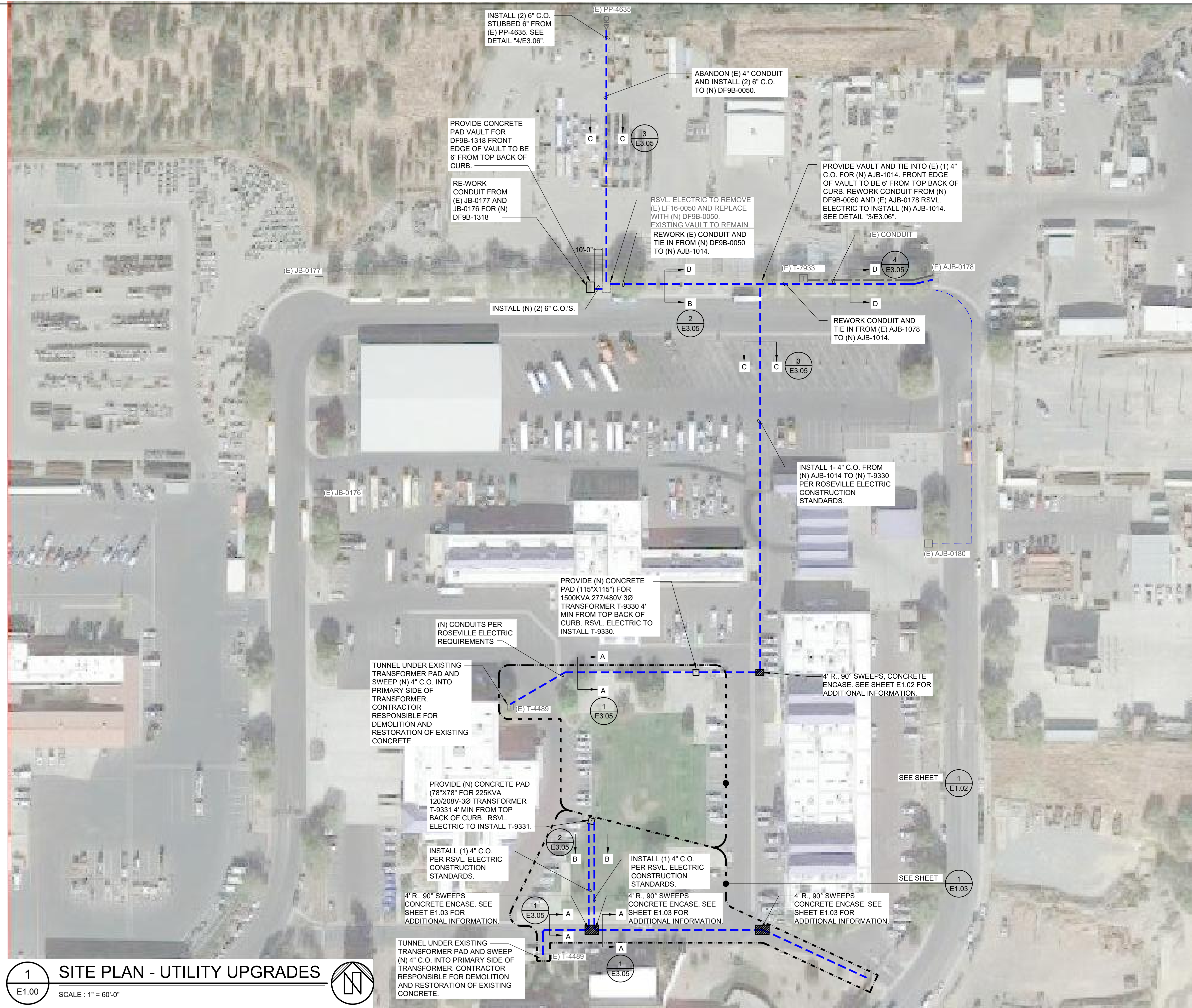


CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
 ELECTRICAL SHEET INDEX, SYMBOL LIST, ABBREVIATIONS AND GENERAL NOTES

SHEET
 E0.01
 OF
 47



Xrefs: x21028.21 bdrjv-TPC-HilltopBusDepot (demo) JUSstamp
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GENERAL NOTE

ALL WORK SHOWN ON THIS PLAN IS THE RESPONSIBILITY OF THE CONTRACTOR UNLESS NOTED OTHERWISE AND IS BASED ON ROSEVILLE ELECTRIC'S 'CITY OF ROSEVILLE CORPORATION YARD ZERO EMISSION BUS DEPOT - PLAN FOR ELECTRIC UTILITY IMPROVEMENTS' DRAWINGS. REFER TO ROSEVILLE ELECTRIC'S DRAWINGS FOR ROSEVILLE ELECTRIC'S SCOPE OF WORK.

1 SITE PLAN - UTILITY UPGRADES
 E1.00 SCALE : 1" = 60'-0"

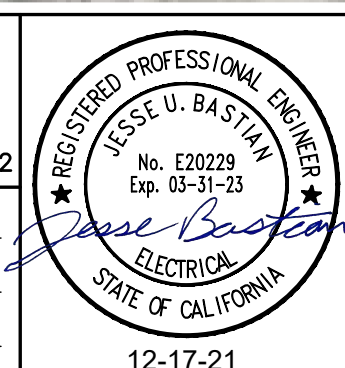
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. SEE NOTES
 THE VERTICAL DATUM OF THIS MAPPING IS BASED ON THE CITY OF ROSEVILLE BENCHMARKS 65, 66, 85, AND 90, ADJUSTED TO NAVD88 BY ADDING A PROJECT FACTOR OF +2.16 FEET.

FIELD BOOK CITY# 400164

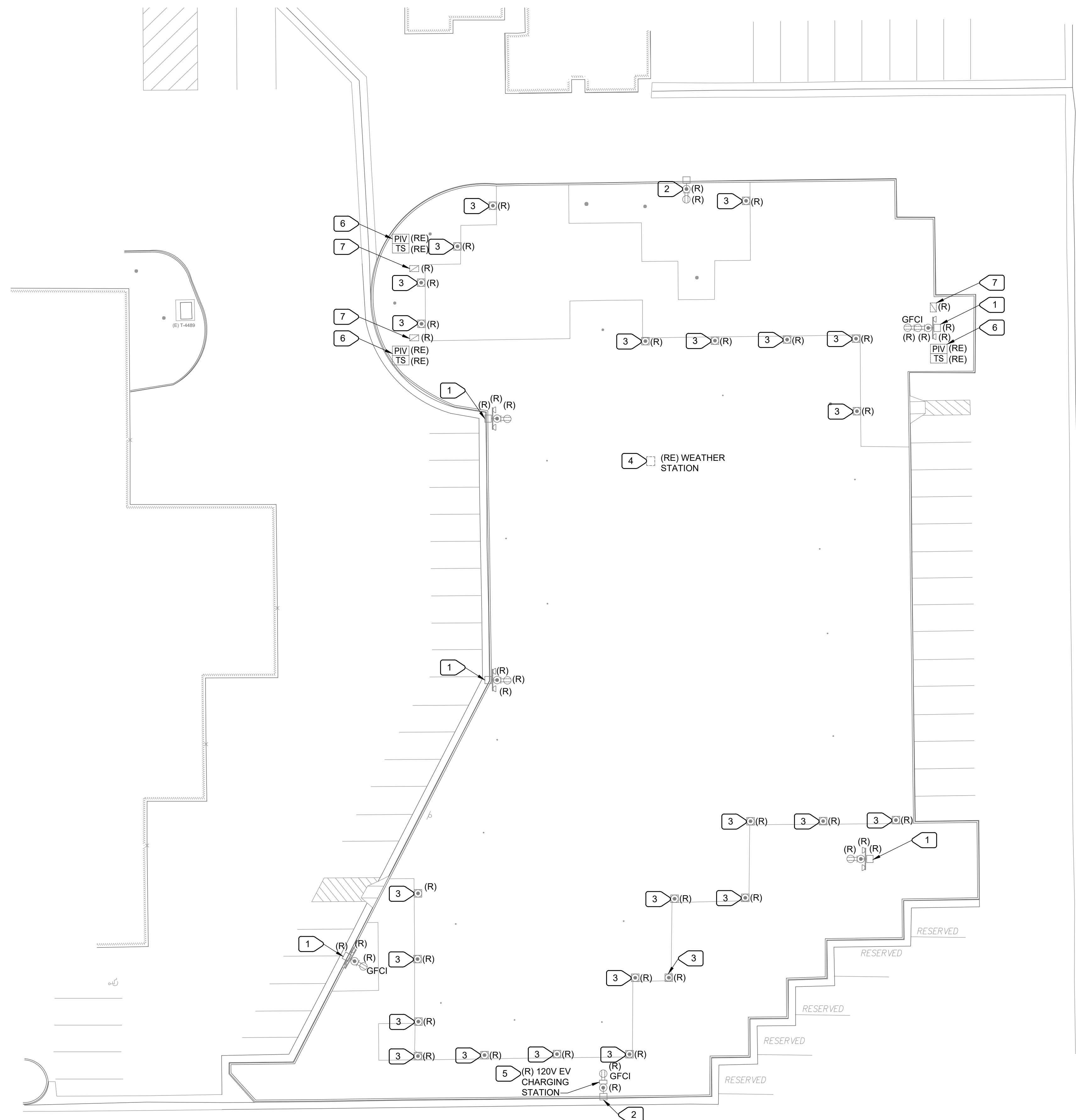
 SCALE
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PSOMAS
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 DESIGNED BY: JULIA BRODOVSKY DATE 12/2021
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**CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT**
 SITE PLAN - UTILITY UPGRADES

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 www.mneilsengineering.com
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 PROJECT #: 21028.21
 PROJECT MGR: Julia Brodovsky



- ### NUMBERED NOTES
- 1 COMPLETELY DEMOLISH EXISTING LUMINAIRE HEAD, POLE AND CONCRETE BASE. REMOVE POLE MOUNTED DOUBLE-HEAD FLOOD LIGHT AND DUPLEX RECEPTACLE. REMOVE ASSOCIATED CIRCUIT(S), CONDUIT(S) AND WIRING BACK TO POWER SOURCE.
 - 2 COMPLETELY DEMOLISH EXISTING LUMINAIRE HEAD, POLE AND CONCRETE BASE. REMOVE POLE MOUNTED DUPLEX RECEPTACLE. REMOVE ASSOCIATED CIRCUIT(S), CONDUIT(S) AND WIRING BACK TO POWER SOURCE.
 - 3 COMPLETELY DEMOLISH BOLLARD LIGHTS AND CONCRETE BASE. REMOVE ASSOCIATED CIRCUIT, CONDUIT AND WIRING BACK TO POWER SOURCE.
 - 4 REMOVE, CLEAN AND PROTECT EXISTING WEATHER STATION. RELOCATE DURING THE REMODEL PHASE. COORDINATE NEW LOCATION WITH THE OWNER REPRESENTATIVE.
 - 5 DEMOLISH EXISTING POLE MOUNTED EV CHARGING STATION. REMOVE CIRCUIT, CONDUIT AND WIRING BACK TO POWER SOURCE. RETURN (E) CHARGING STATION TO OWNER.
 - 6 RELOCATE POST INDICATOR VALVE (PIV) WITH TAMPER SWITCH (TS). PROVIDE HEAVY-DUTY FULL TRAFFIC RATED UNDERGROUND PULL BOX. SPLICE, INTERCEPT AND EXTEND FIRE ALARM CIRCUIT TO NEW LOCATION AND RECONNECT TO TAMPER SWITCH.
 - 7 REPLACE EXISTING UNDERGROUND PULL BOX AND COVER WITH NEW HEAVY-DUTY, FULL TRAFFIC RATED BOX AND COVER.

- ### GENERAL NOTES
1. UPDATE, AND PROVIDE TYPED AND PRINTED PANEL SCHEDULE. IF CIRCUIT IS NO LONGER IN USE, FLIP CIRCUIT BREAKER TO "OFF" POSITION, AND LABEL CIRCUIT IN PANEL SCHEDULE AS "SPARE".
 2. DOCUMENT ANY FIELD DISCOVERIES AND REVISIONS ON AS-BUILT DRAWINGS FOR OWNER'S RECORD.
 3. SEE SHEETS E1.02 AND E1.03 FOR NEW WORK.

1
SITE PLAN - ELECTRICAL DEMOLITION

E1.01 SCALE: 1" = 20'-0"

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 PROJECT #: 21028.21
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Xrefs: x21028.21 bor4v-TPC-HilltopBusDepot (demo) JUSstamp
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NO.	REVISIONS DESCRIPTION	DATE	BY

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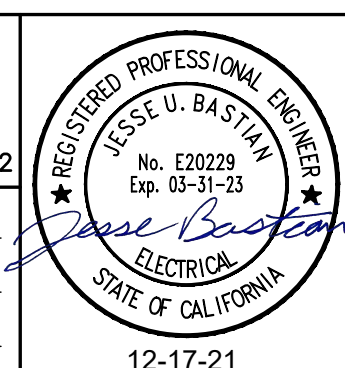
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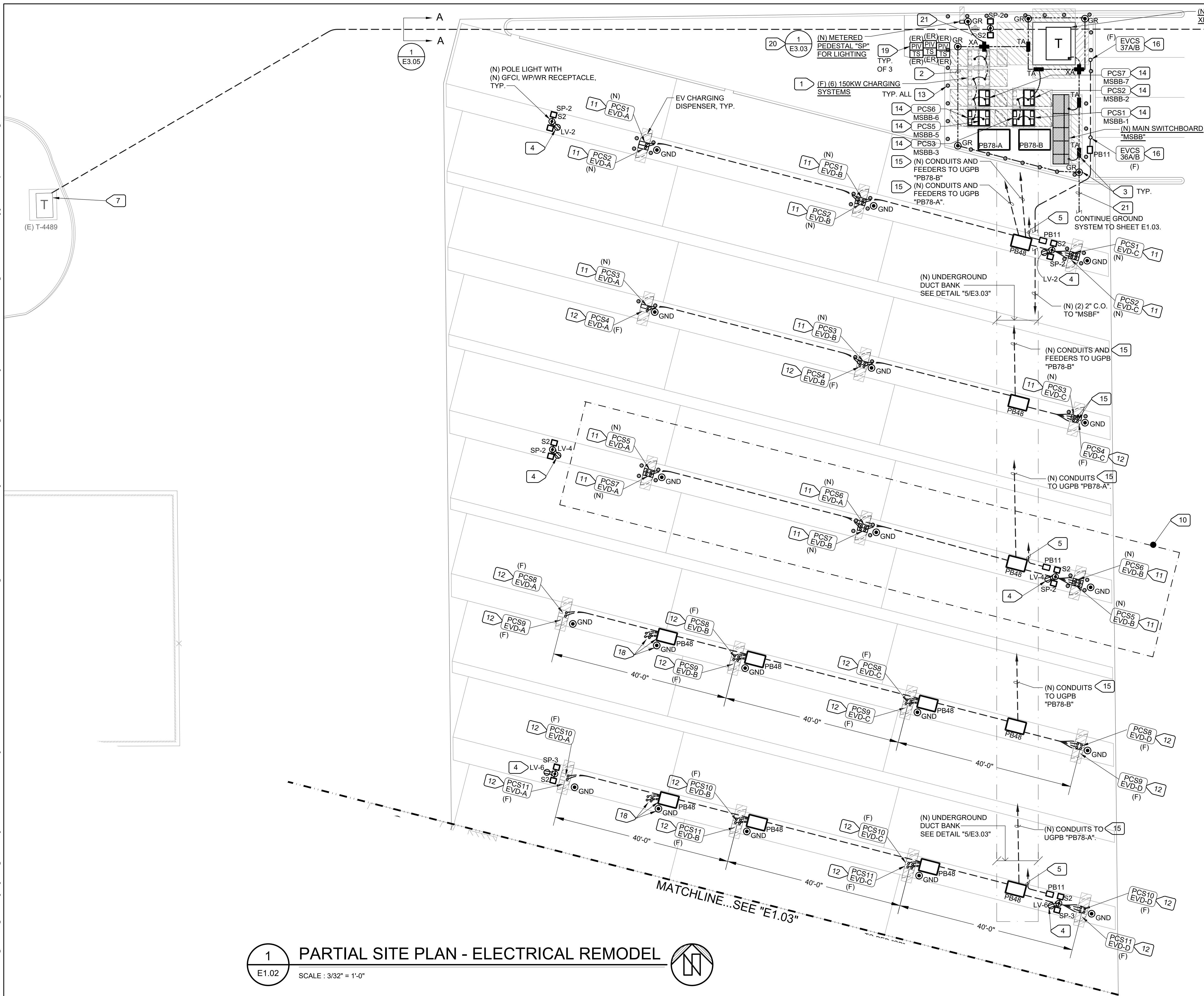
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 DRAWN BY: WILLIE PUJANES/
 BRANDON STEINLEIN DATE: 12/2021



CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT

SITE PLAN - ELECTRICAL DEMOLITION

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- ### NUMBERED NOTES
- 1 STUB-UP SPARE CONDUITS WITH PULLROPES FOR FUTURE CHARGER SYSTEMS PCS4 THRU PCS11. SEE ONE-LINE FOR SIZES AND QUANTITIES.
 - 2 PROVIDE GROUNDING RING FOR NEW ELECTRICAL EQUIPMENT. COORDINATE ROUTING WITH EXISTING UNDERGROUND UTILITIES.
 - 3 SEE ELECTRICAL DETAIL SHEETS FOR CADWELD CONNECTIONS DETAIL.
 - 4 PROVIDE 1" C., 2#10 AND 1#10 GND FOR GFCI, WP/WR CONVENIENCE RECEPTACLE CIRCUIT. MOUNT ON LIGHT POLE.
 - 5 LIGHTING CIRCUIT TO PEDESTAL "SP" AND RECEPTACLE CIRCUIT TO PANEL "LV".
 - 6 PROVIDE AND PLACE CONCRETE PAD (115"X115") FOR 1500kVA, 277/480V-3Ø, TRANSFORMER T-9330 4' MIN FROM TOP BACK OF CURB. RSVL. ELECTRIC TO INSTALL T-9330. MAINTAIN ALL WORKING CLEARANCES REQUIRED BY ROSEVILLE ELECTRIC.
 - 7 TUNNEL UNDER EXISTING TRANSFORMER PAD AND SWEEP (N) 4" C.O. INTO PRIMARY SIDE OF TRANSFORMER. CONTRACTOR RESPONSIBLE FOR DEMOLITION AND RESTORATION OF EXISTING CONCRETE.
 - 8 INSTALL 2500 AMP, 277/480V, 3Ø SERVICE.
 - 9 INSTALL (1) 4" C.O. FROM (N) AJB-1014 TO (N) T-9330 PER ROSEVILLE ELECTRIC CONSTRUCTION STANDARDS.
 - 10 CHARGER LOCATIONS ARE PLACED DELIBERATELY AND HAVE BEEN VERIFIED WITH OWNER. SEE ONE-LINE FOR EACH STATION'S POWER REQUIREMENTS.
 - 11 SEE FOUNDATION DETAIL "2/E3.01". MULTIPLE CONDUIT STUBS FOR DISPENSERS, SEE ONE-LINE FOR SIZES AND QUANTITIES.
 - 12 SEE FOUNDATION DETAIL "4/E3.02". MULTIPLE CONDUIT STUBS FOR FUTURE DISPENSERS, SEE ONE-LINE FOR SIZES AND QUANTITIES.
 - 13 TRAFFIC BOLLARDS PER ROSEVILLE ELECTRIC STANDARDS. SEE CIVIL SHEET CD-3. DETAIL 13. ROSEVILLE ELECTRIC TO DETERMINE THE QUANTITY AND PLACEMENT OF BOLLARDS FOR UTILITY TRANSFORMER.
 - 14 NEW 150KW ELECTRIC VEHICLE POWER CABINET SYSTEM.
 - 15 SEE ONE-LINE POWER DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES/QUANTITIES.
 - 16 (1) 2" CONDUIT STUB WITH PULL ROPE FOR (F) FLEET CHARGER.
 - 17 4' RADIUS, 90° CONDUIT SWEEPS, CONCRETE ENCASED. CONDUITS THAT ARE TO BE ENCASED IN CONCRETE SHALL BE ENCASED WITH A 3/8" AGGREGATE CONCRETE MIX WITH A 5" SLUMP AND WITH A NOMINAL COMPRESSIVE STRENGTH OF 2500 LBS. THE ENCASEMENT SHALL COVER AT LEAST 3" ON ALL SIDES OF THE DUCT BANK. SEE ROSEVILLE ELECTRIC CONSTRUCTION STANDARD "CONDUIT REQUIREMENTS AND SPECIFICATIONS."
 - 18 PROVIDE UNDERGROUND PULL BOX, CONDUIT STUBS, AND FUTURE GROUND CONNECTION FOR MORE FLEXIBILITY OF WHERE TO LOCATE ANOTHER FUTURE EVD DISPENSER.
 - 19 EXISTING POST INDICATOR VALVE (PIV) WITH TAMPER SWITCH (TS) RELOCATED.
 - 20 CREATE A PLACARD IDENTIFYING EACH SERVICE ON THE PREMISE AND PLACE ON ALL SERVICES.
 - 21 PROVIDE A MAIN GROUNDING SYSTEM BY BONDING THE THREE SERVICES ("MSBB", "MSBF", AND "SP") SYSTEMS GROUNDING, CREATING A MAIN GROUNDING SYSTEM AT THIS LOCATION. SERVICE "MSBF" IS LOCATED ON SHEET E1.03.

1 PARTIAL SITE PLAN - ELECTRICAL REMODEL
 E1.02 SCALE: 3/32" = 1'-0"

NO.	REVISIONS DESCRIPTION	DATE	BY

BENCH MARK ELEV. SEE NOTES

THE VERTICAL DATUM OF THIS MAPPING IS BASED ON THE CITY OF ROSEVILLE BENCHMARKS 65, 66, 85, AND 90, ADJUSTED TO NAVD88 BY ADDING A PROJECT FACTOR OF +2.16 FEET.

FIELD BOOK

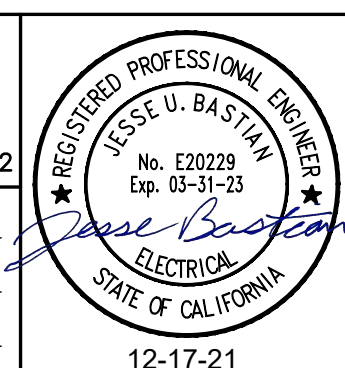
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CITY# 400164

PSOMAS

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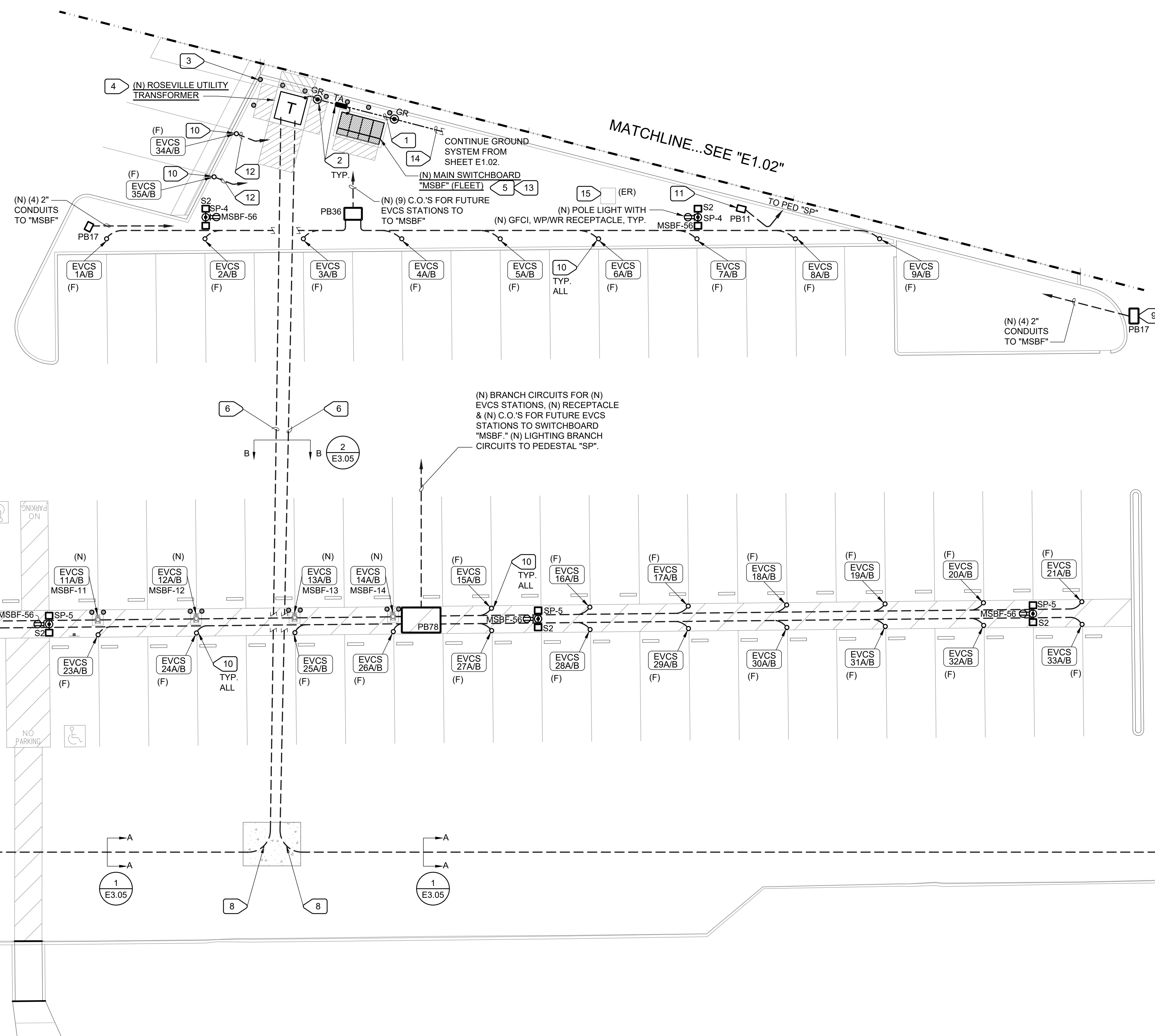
CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT

PARTIAL SITE PLAN - ELECTRICAL REMODEL

SHEET E1.02 OF 47

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 PROJECT #: 21028.21
 PROJECT MGR: Julia Brodovskiy

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- ### NUMBERED NOTES
- 1 SEE DETAIL SHEET FOR CADWELDED CONNECTIONS.
 - 2 PROVIDE UFER GROUND AND GROUND RODS FOR NEW ELECTRICAL EQUIPMENT.
 - 3 PROVIDE BOLLARDS AROUND ELECTRICAL EQUIPMENT AND UTILITY TRANSFORMER. TRAFFIC BOLLARDS PER ROSEVILLE ELECTRICAL STANDARDS. SEE CIVIL SHEET CD-3, DETAIL 13. ROSEVILLE ELECTRIC TO DETERMINE THE QUANTITY AND PLACEMENT OF BOLLARDS FOR UTILITY TRANSFORMER.
 - 4 PROVIDE CONCRETE PAD (78"X78") FOR 225kVA, 120/208V, 3Ø TRANSFORMER T-9331 4' MIN FROM TOP BACK OF CURB. RSVL. ELECTRIC TO INSTALL T-9331.
 - 5 PROVIDE 1000 AMP, 120/208V, 3Ø SERVICE.
 - 6 PROVIDE 1-4" PER ROSEVILLE ELECTRIC CONSTRUCTION STANDARDS.
 - 7 CONTRACTOR TO TUNNEL UNDER EXISTING TRANSFORMER PAD AND SWEEP (N) 4" CONDUIT INTO PRIMARY SIDE OF TRANSFORMER. CONTRACTOR RESPONSIBLE FOR DEMOLITION AND RESTORATION OF EXISTING CONCRETE.
 - 8 4' RADIUS, 90° CONDUIT SWEEPS, CONCRETE ENCASED. CONDUITS THAT ARE TO BE ENCASED IN CONCRETE SHALL BE ENCASED WITH A 3/8" AGGREGATE CONCRETE MIX WITH A 3" SLUMP AND WITH A NOMINAL COMPRESSIVE STRENGTH OF 2500 LBS. THE ENCASEMENT SHALL COVER AT LEAST 3" ON ALL SIDES OF THE DUCT BANK. SEE ROSEVILLE ELECTRIC CONSTRUCTION STANDARD "CONDUIT REQUIREMENTS AND SPECIFICATIONS."
 - 9 PROVIDE NEW UG PULL BOX FOR FUTURE CHARGERS
 - 10 2" CONDUIT STUB FOR (F) FLEET CHARGER. TYP. SEE DETAIL "4/E3.02"
 - 11 NEW UNDERGROUND PULL BOX FOR LIGHTING CIRCUITS.
 - 12 NEW (1) 2" C.O. TO "MSBF".
 - 13 CREATE A PLACARD IDENTIFYING EACH SERVICE ON THE PREMISE AND PLACE ON ALL SERVICES.
 - 14 BOND GROUNDING SYSTEM OF "MSBF" TO OTHER TWO SERVICES "MSBB" AND "SP" TO CREATE MAIN GROUNDING SYSTEM. SEE SHEET E1.02 FOR SERVICES "MSBB" AND "SP".
 - 15 RELOCATED WEATHER STATION. PROVIDE ALL ELECTRICAL CONNECTIONS. VERIFY REQUIREMENTS WITH WEATHER STATION PRIOR TO COMMENCEMENT OF WORK.

1 PARTIAL FLEET SITE PLAN - ELECTRICAL REMODEL
E1.03 SCALE : 3/32" = 1'-0"

NO.	REVISIONS DESCRIPTION	DATE	BY

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FIELD BOOK CITY# 400164

CITY OF ROSEVILLE CALIFORNIA

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DESIGNED BY: JULIA BRODOVSKY DATE 12/2021
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12-17-21

**CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT**

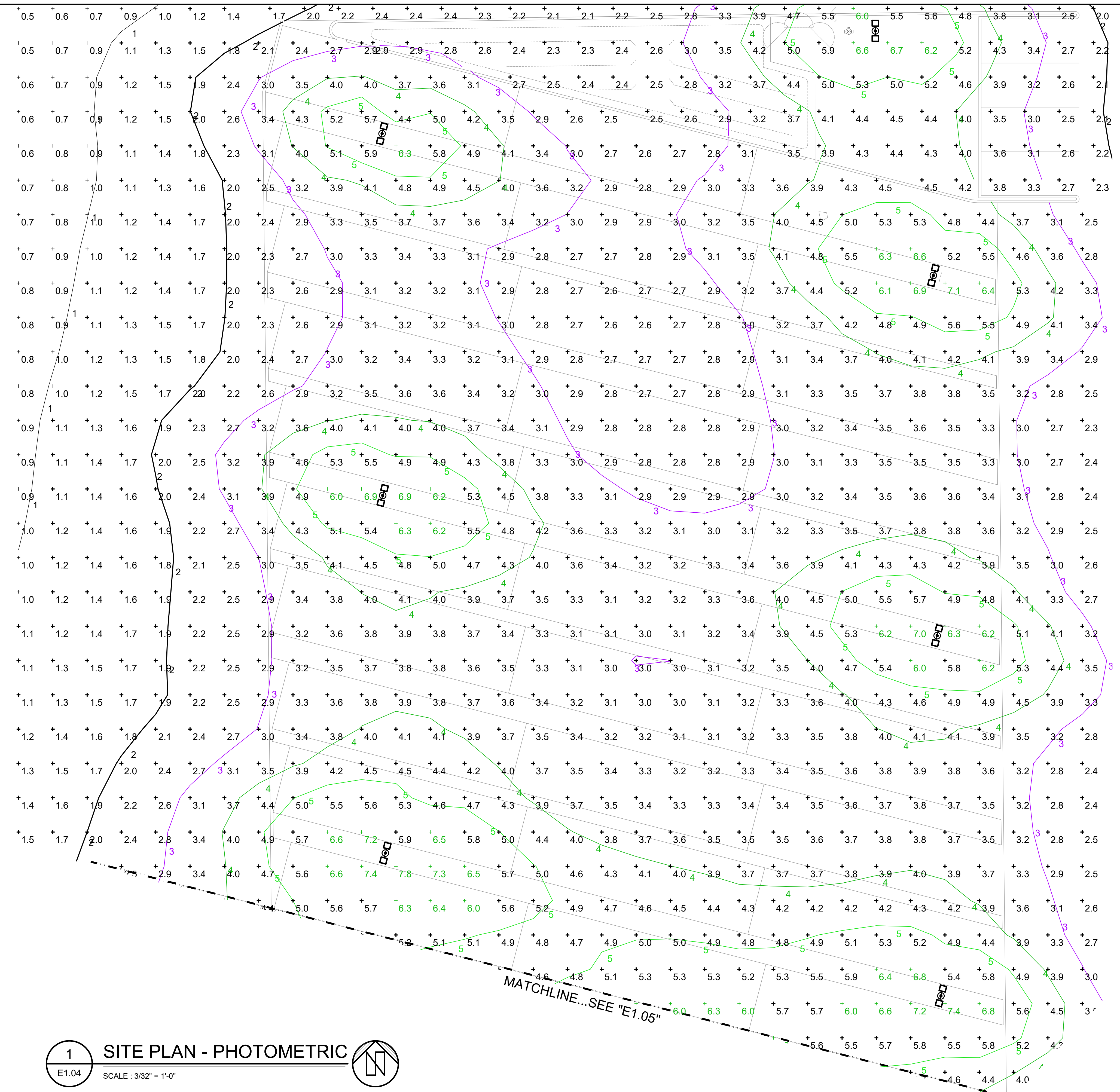
PARTIAL FLEET SITE PLAN - ELECTRICAL REMODEL

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Xrefs: x21028.21 bdrkzTED-C-SITE(M)-TPC-HilltopBusDepot (remodel) JUBstampl V-TPC-HilltopBusDepot
Images: cropped COR block logos.tif



Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
BUS EV ZONE	+	3.2 fc	7.8 fc	0.4 fc	19.5:1	8.0:1
FLEET EV ZONE	+	2.9 fc	7.1 fc	0.4 fc	17.8:1	7.3:1
XMFR "MSBB" ZONE	+	2.4 fc	6.7 fc	0.4 fc	16.8:1	6.0:1
XMFR "MSBF" ZONE	+	4.8 fc	7.7 fc	1.6 fc	4.8:1	3.0:1

1 SITE PLAN - PHOTOMETRIC
E1.04 SCALE: 3/32" = 1'-0"

NO.	REVISIONS DESCRIPTION	DATE	BY

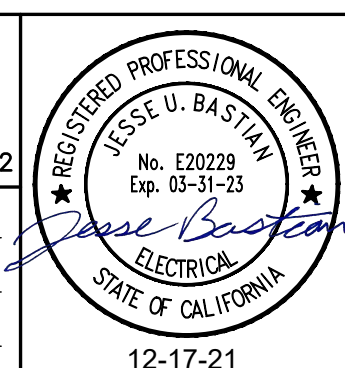
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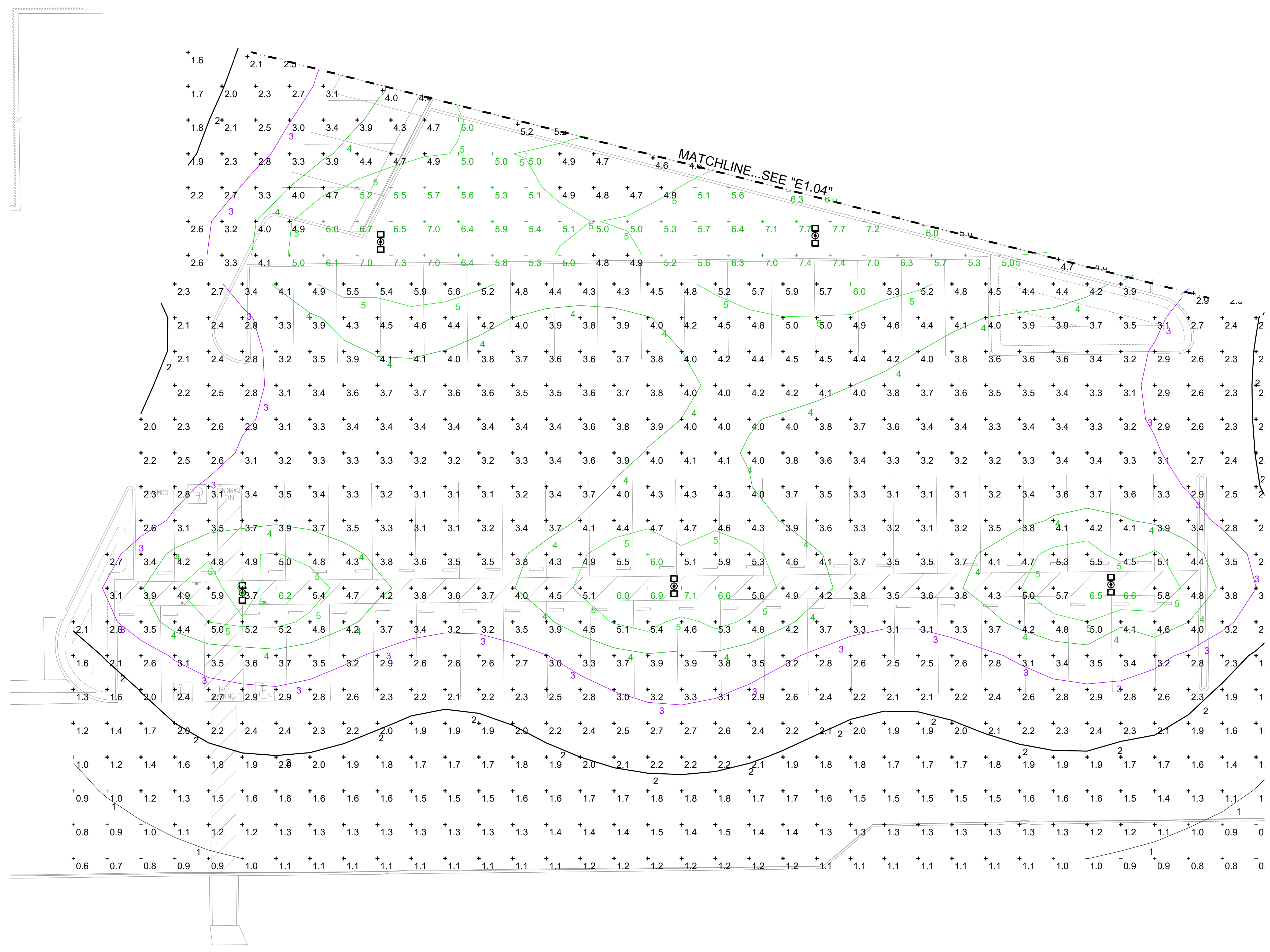


**CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT**

PARTIAL SITE PLAN - PHOTOMETRIC PLAN

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PROJECT #: 21028.21
PROJECT MGR: Julia Brodovsky

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
BUS EV ZONE	+	3.2 fc	7.8 fc	0.4 fc	19.5:1	8.0:1
FLEET EV ZONE	+	2.9 fc	7.1 fc	0.4 fc	17.8:1	7.3:1
XMFR "MSBB" ZONE	+	2.4 fc	6.7 fc	0.4 fc	16.8:1	6.0:1
XMFR "MSBF" ZONE	+	4.8 fc	7.7 fc	1.6 fc	4.8:1	3.0:1



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1 PARTIAL FLEET SITE PLAN - PHOTOMETRIC
 E4.02 SCALE: 3/32" = 1'-0"

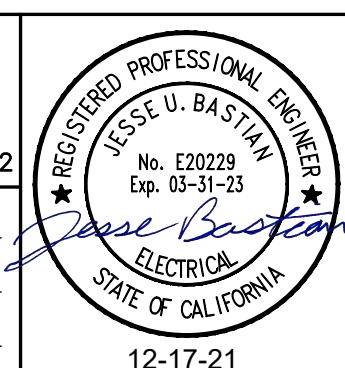
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**CITY OF ROSEVILLE CORPORATION YARD
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 PARTIAL FLEET SITE PLAN - PHOTOMETRIC PLAN

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Xrefs: x21028.21 bdfkzTED-C-SITE(M)-TPC-HilltopBusDepot (remodel) JUBstamp V-TPC-HilltopBusDepot
 Images: cropped COR block logos.tif

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COMMISSIONING TEST NOTES

ABB COMMISSIONING SITE ACCEPTANCE TEST INCLUDES:

- VERIFYING INSTALLATION IS CORRECT.
- VERIFYING POWER SUPPLIED TO THE EQUIPMENT IS CORRECT.
- VERIFYING THERE HAS BEEN NO DAMAGE OR LOOSE WIRES OR BOARDS FROM SHIPMENT/INSTALLATION.
- POWERING UP THE EQUIPMENT.
- PERFORMING LATEST AND GREATEST SOFTWARE UPDATES AS WELL AS ANY OCPP INTEGRATIONS, ETC.
- TESTING SCHEDULE TO ENSURE VEHICLE AND CHARGER OPERATION IS SUCCESSFUL.

MSBB ELECTRIC SERVICE LOAD CALCULATION

City of Roseville Zero Emission Bus Depot Project No.: 21028.21	Date: 9/1/2021 By: JLB
General purpose receptacle outlets First 10 kVA or less Remainder over 10 kVA =	10.00 0.90 kVA @ 100% = 0.90 0.00 @ 50% = 0.00
Other equipment Power Charging Station (PCS) EV Dispenser Aux AC Connection	3 EA @ 164.30 kVA ea. = 492.90 3 EA @ 0.30 kVA ea. = 0.90
TOTAL SERVICE LOAD	= 494.70 kVA
494.7 kVA @ 277/480, 3 Ph, 4 W =	595.31 amperes
1,205.16 kVA @ 12.7kV =	23.47 amperes

EQUIPMENT SCHEDULE

EQUIPMENT TAG	DESCRIPTION	QTY	MANUFACTURER (OR EQUAL)	ENCLOSURE	MODEL NUMBER	VOLTAGE	AMPS (A)
PCS	HEAVY VEHICLE CHARGER 150kW	6	ABB	NEMA 3R	6AGC070558	480/277VAC	198
	SEQUENTIAL CHARGING PACKAGE	6	ABB	-	6AGC069251	-	-
	ROBUSTNESS PACKAGE	-	ABB	-	4EPY420137R1	-	-
	LONG DISTANCE PACKAGE	6	ABB	-	4EPY420127R1	-	-
	ONE-TIME SERVICE: ACTIVATION FEE PER HVC*	6	ABB	-	Project-EVCI	-	-
PCS EVD	DEPOT CHARGE BOXES WITH LONG CABLE	15	ABB	NEMA 3R	6AGC076522	MAX DC OUTPUT: 850VDC	200
	METAL PEDESTALS	15	ABB	NEMA 3R	6AGC069024	-	-
	CABLE MANAGEMENT SYSTEMS	15	ABB	NEMA 3R	XT4-BUS-002	-	-
	CONNECTIVITY - CHARGER CONNECT**	12	ABB	-	6AGC064781	-	-
	EVE PLATFORM***	12	ABB	-	4EPY450059R1	-	-

*SEE "COMMISSIONING TEST NOTES" FOR SCOPE.
 **CONNECTIVITY FEE PER YEAR PER CHARGER. INCLUDES GSM CONNECTIVITY, CELLULAR DATA PLAN, LIVE SOFTWARE UPDATES AND 24/7 NOC MONITORING (PER YEAR PER STATION).
 ***EVE PLATFORM MUST BE INCLUDED TO MEET SACRAMENTO METROPOLITAN AIR QUALITY MANAGEMENT DISTRICT (SMAQMD) REQUIREMENT TO TRACK SPECIFIC ENERGY USAGE OF EACH ELECTRIC VEHICLE DISPENSER.

GENERAL NOTES

- ELECTRICAL DESIGN IS BASED ON EQUIPMENT LISTED, PROVIDED LISTED EQUIPMENT OR EQUAL.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING EQUIPMENT THAT MEETS DESIGN INTENT. WHEN SELECTING OR EQUAL EQUIPMENT THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING REVISED DRAWINGS, ALL DOCUMENTATION, AND CALCULATIONS.

- ### NUMBERED NOTES
- PROVIDE NEW CONDUITS AND CONDUCTORS FOR ROSEVILLE ELECTRIC SECONDARY SERVICE AND (1) 3/4" C.O. FOR CAT5 COMMUNICATION CABLE.
 - PROVIDE GROUND ROD AND CONNECTION FOR PCS AND PCS EVD UNITS.
 - PROVIDE LOCKING DEVICE FOR NEW CIRCUIT BREAKER TO MEET CEC 625.43. CIRCUIT BREAKER SHALL BE LOCKABLE OPEN IN ACCORDANCE WITH CEC 110.25.
 - PROVIDE DIGITAL POWER QUALITY METER ALONG WITH CT'S AND ALL ASSOCIATED ACCESSORIES. METERING FOR STATISTICAL READING ONLY. NOT FOR REVENUE BILLING. METER SHALL HAVE CAPABILITY OF MULTI-POINT READING OF AT LEAST 8 POINTS. METER SHALL BE POWERED INTERNALLY WITH A FUSE MOUNTED INSIDE THE EQUIPMENT.
 - PROVIDE 1" WITH CAT6 CABLE TO ETHERNET SWITCH IN MAIN DATA ROOM FOR REMOTE MONITORING. VERIFY LOCATION OF MAIN DATA ROOM WITH OWNER PRIOR TO COMMENCEMENT OF WORK.
 - PROVIDE ARC FLASH REDUCTION MAINTENANCE SWITCH (ARMS) PER 2019 CEC 240.87 WITH A SEPARATE BLUE LIGHT AND ON/OFF SWITCH ON THE SWITCHBOARD COVER. PROVIDE OPERATION INSTRUCTIONS MOUNTED TO THE FRONT OF THE SWITCHBOARD.
 - PROVIDE GFCI PROTECTION PER 2019 CEC ARTICLE 230.95 FOR GFCI PROTECTION. WRITTEN GFCI PERFORMANCE TESTING REPORT TO BE AVAILABLE TO THE AHJ.
 - PROVIDE 1" CONDUIT AND GROUND ROD IN DISPENSER FOUNDATIONS FOR FUTURE GROUNDING CONNECTION.
 - FOR LOCATIONS WHERE EQUIPMENT IS NOT BEING INSTALLED AND CONDUITS ARE BEING INSTALLED FOR FUTURE EQUIPMENT, PROVIDE THREADED CONDUIT COUPLERS WITH SQUARE HEAD CONDUIT PLUGS FLUSH TO FINISHED SURFACE.
 - STUB INTO SWITCHBOARD SECTION WITH PANEL LV.
 - IDENTIFY AND LABEL EACH SERVICE (120/208V-3P AND 277/480V-3P) PER ELECTRICAL SPECIFICATION 26 05 53, SECTION 3.01(H)(3)(i) MAKING OBVIOUS THE DIFFERENCE AND PRESENCE OF DIFFERENT VOLTAGES AT CIRCUITRY FED BY DIFFERENT SECTIONS OF SWITCHBOARD.

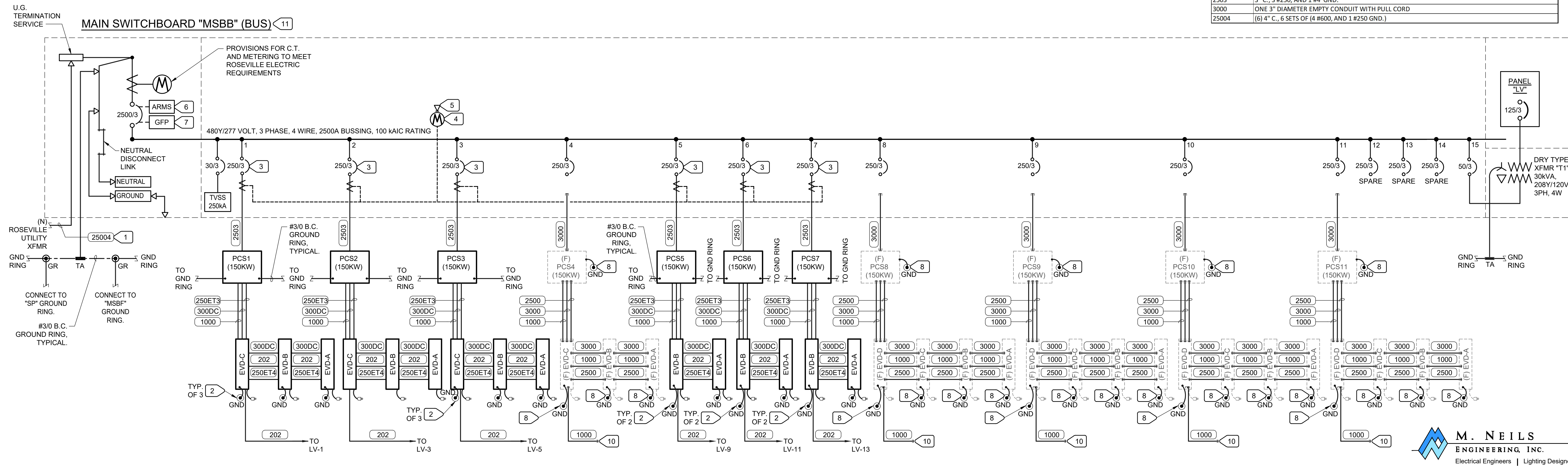
- ### GENERAL NOTES
- ELECTRICAL DESIGN BASED ON ABB HTC 150 DESIGN DOCUMENTS.
 - NOMENCLATURE FOR POWER BLOCK CHARGERS AND DISPENSERS IS AS FOLLOWS:
 PCS1 = POWER CHARGING SYSTEM 1.
 PCS1 EVD-A = CHARGING STATION 1 ELECTRIC VEHICLE DISPENSER A.
 - PROVIDE ARC FLASH LABELS ON ALL EQUIPMENT PER ELECTRICAL SPECIFICATIONS 26 05 74.

DC & DATA CONDUIT SCHEDULE

TAG	[E] CONDUIT SIZE	FUNCTION OF INTERNAL CABLES	CABLE SECTION	COMMENTS
250ET3	2-1/2" C.	INTERLOCK (SHIELDED)	(1) CABLE THAT HAS (1) TWISTED PAIR OF #18 (SHIELDED, 600V)	
		FIBER CAN	(1) MULTIMODE FIBER (OM3, 8 STRANDS)	ST CONNECTORS ON ALL ENDS
		ETHERNET CAN	(1) MULTIMODE FIBER (OM3, 4 STRANDS)	
250ET4	2-1/2" C.	FIBER CAN	(1) MULTIMODE FIBER (OM3, 4 STRANDS)	RJ45 CONNECTORS ON ALL ENDS
		ETHERNET	(1) ETHERNET (S/FTP, CAT6/CAT5E)	
		INTERLOCK (SHIELDED)	(1) CABLE THAT HAS (2) TWISTED PAIR OF #18 (SHIELDED, 600V)	
300DC	3" C.	DC POWER (200A)	(2) 3/0 (CU, DLO, 90°C, 1KV) + (1) #6 (CU, EGC, 600V)	

AC POWER FEEDER SCHEDULE

TAG	DESCRIPTION
202	1" C., 2 #12, AND 1 #12 GND.
1000	ONE 1" DIAMETER EMPTY CONDUIT WITH PULL CORD
2500	ONE 2-1/2" DIAMETER EMPTY CONDUIT WITH PULL CORD
2503	3" C., 3 #50, AND 1 #4 GND.
3000	ONE 3" DIAMETER EMPTY CONDUIT WITH PULL CORD
25004	(6) 4" C., 6 SETS OF (4 #600, AND 1 #250 GND.)



1 ONE-LINE POWER DIAGRAM (N) "MSBB" (BUS)
E2.01 NO SCALE

REVISIONS

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. SEE NOTES
 THE VERTICAL DATUM OF THIS MAPPING IS BASED ON THE CITY OF ROSEVILLE BENCHMARKS 65, 66, 85, AND 90, ADJUSTED TO NAVD88 BY ADDING A PROJECT FACTOR OF +2.16 FEET.

FIELD BOOK CITY# 400164

SCALE
 HORIZ. _____
 VERT. _____

1075 Creekside Ridge Way, Suite 200 Roseville, CA 95678 (916) 788-8122

DESIGNED BY: JULIA BRODOVSKY DATE 12/2021
 CHECKED BY: JESSE BASTIAN DATE 12/2021
 DRAWN BY: WILLIE PUJANES/ BRANDON STEINLEIN DATE 12/2021

**CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT**

ONE-LINE POWER DIAGRAM (N) "MSBB" (BUS)

SHEET E2.01 OF 47
 PROJECT MGR: Julia Brodovskiy

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 PROJECT #: 21028.21
 PROJECT MGR: Julia Brodovskiy

FEEDER SCHEDULE	
TAG	DESCRIPTION
202	1" C., 2 #10, AND 1 #10 GND.
403	2" C., 3 #8, AND 1 #10 GND.
1004	1-1/4" C., 4 #2, AND 1 #8 GND.
10004	(3) 3" C., 3 SETS OF (4 #400, AND 1 #2/0 GND.)

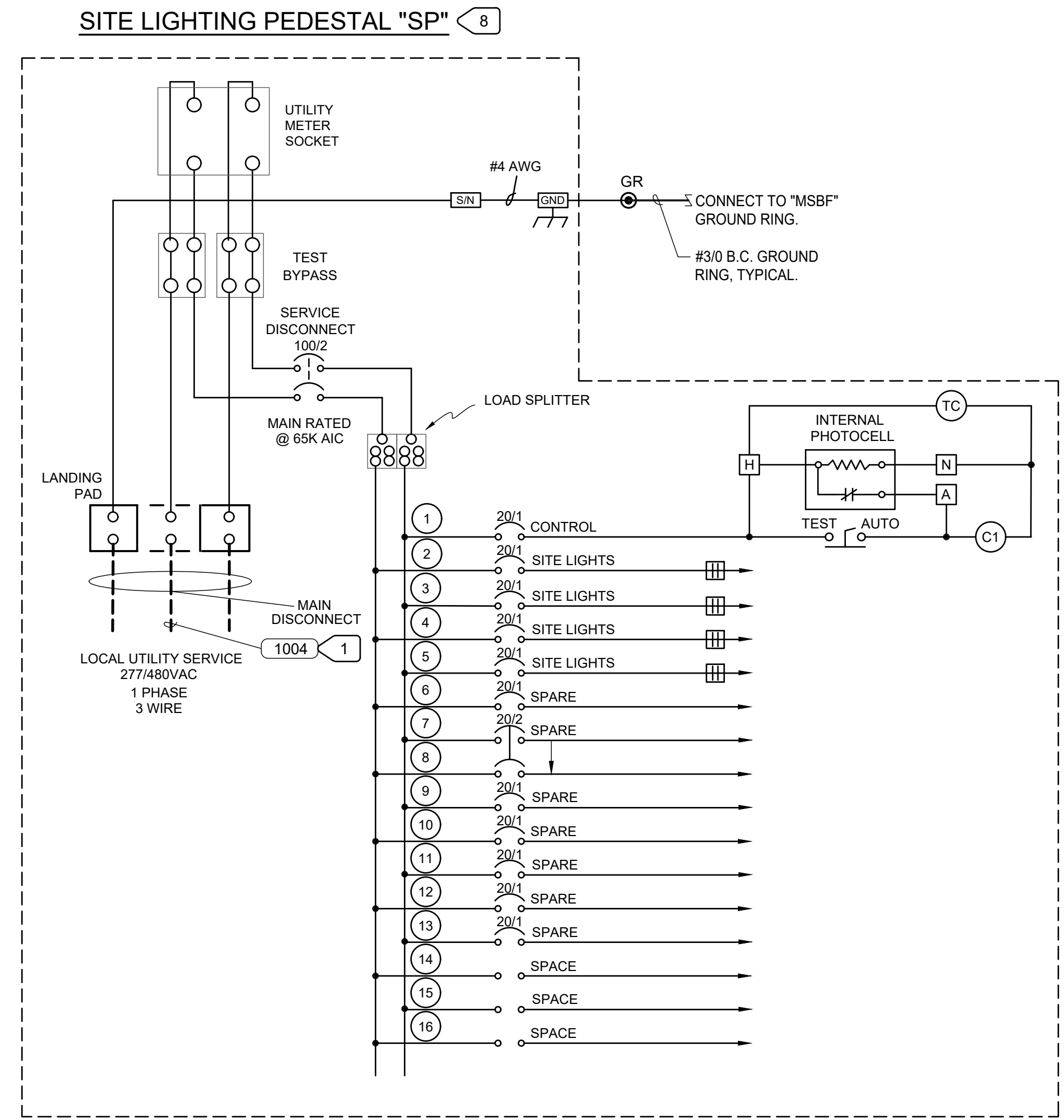
EQUIPMENT SCHEDULE							
EQUIPMENT TAG	DESCRIPTION	QTY	MANUFACTURER (OR EQUAL)	ENCLOSURE	MODEL NUMBER	VOLTAGE	AMPS (A)
EVCS	CAR CHARGER LEVEL 2 DUAL PORT STATION - STANDARD POWER SHARE	5	CHARGEPOINT	NEMA 3R	CT4021-GW1*	208V-1Ø	32
	CHARGEPOINT COMMERCIAL SERVICE PLAN	5	CHARGEPOINT	-	CPCLD-COMMERCIAL-n**	-	-
	CHARGEPOINT ENTERPRISE PLAN	-	CHARGEPOINT	-	CPCLD-ENTERPRISE-n**	-	-
	CHARGEPOINT ASSURE	5	CHARGEPOINT	-	CT4000-ASSUREn**	-	-
	STATION ACTIVATION AND CONFIGURATION	5	CHARGEPOINT	-	CPSUPPORT-ACTIVE**	-	-
	CHARGEPOINT STATION INSTALLATION AND VALIDATION	5	CHARGEPOINT	-	CT4000-INSTALLVALID**	-	-

*GW1 = INTEGRAL MODEM
 **ALL CT4000 STATIONS REQUIRE A NETWORK SERVICE PLAN PER PORT. SUBSTITUTE "n" FOR DESIRED YEARS.

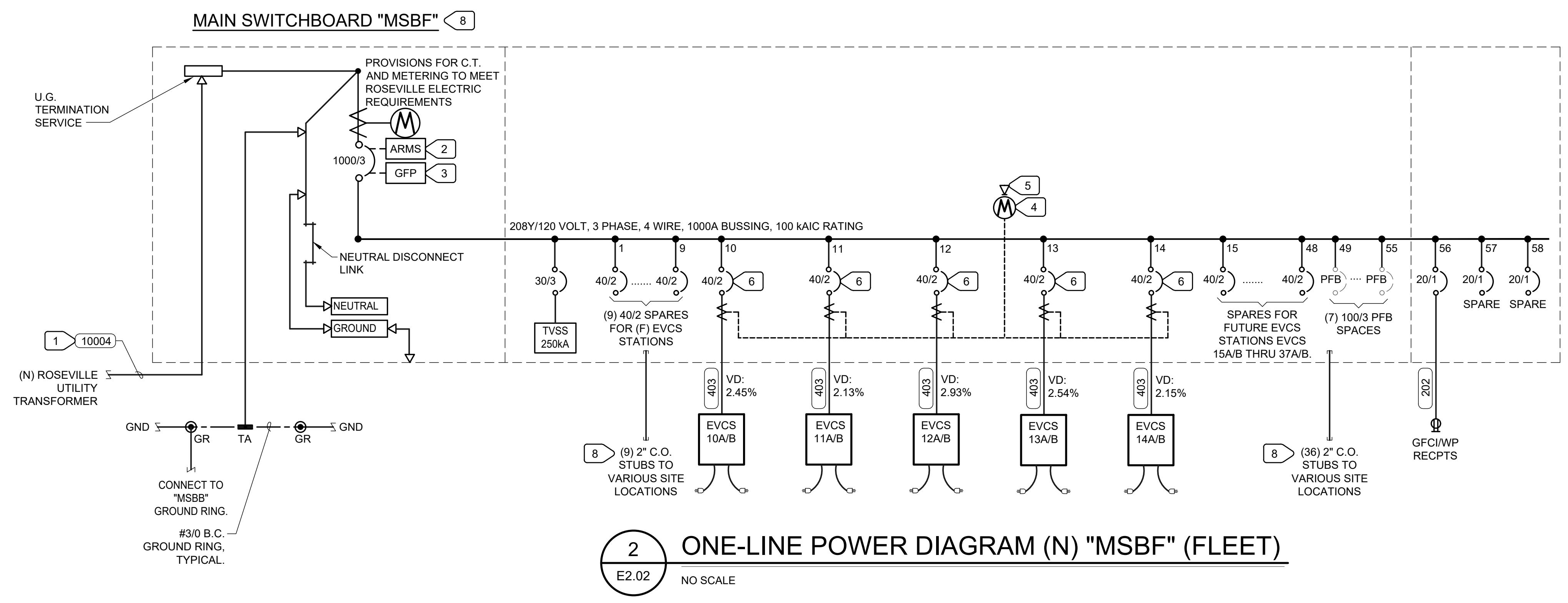
GENERAL NOTES
 1. ELECTRICAL DESIGN IS BASED ON EQUIPMENT LISTED. PROVIDED LISTED EQUIPMENT OR EQUAL.
 2. CONTRACTOR IS RESPONSIBLE FOR PROVIDING EQUIPMENT THAT MEETS DESIGN INTENT. WHEN SELECTING OR EQUAL EQUIPMENT THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING REVISED DRAWINGS, ALL DOCUMENTATION, AND CALCULATIONS.

- ### NUMBERED NOTES
- 1 PROVIDE NEW SECONDARY SERVICE AND (1) 3/4" C.O. FOR CAT5 COMMUNICATION CABLE.
 - 2 PROVIDE ARC FLASH REDUCTION MAINTENANCE SWITCH (ARMS) PER 2019 CEC 240.87 WITH A SEPARATE BLUE LIGHT AND ON/OFF SWITCH ON THE SWITCHBOARD COVER. PROVIDE OPERATION INSTRUCTIONS MOUNTED TO THE FRONT OF THE SWITCHBOARD.
 - 3 PROVIDE GFCI PROTECTION PER 2019 CEC ARTICLE 230.95 FOR GFCI PROTECTION. WRITTEN GFCI PERFORMANCE TESTING REPORT TO BE AVAILABLE TO THE AHJ.
 - 4 PROVIDE DIGITAL POWER QUALITY METER ALONG WITH CT'S AND ALL ASSOCIATED ACCESSORIES. METERING FOR STATISTICAL READING ONLY. NOT FOR REVENUE BILLING. METER SHALL HAVE CAPABILITY OF MULTI-POINT READING OF AT LEAST 8 POINTS. METER SHALL BE POWERED INTERNALLY WITH A FUSE MOUNTED INSIDE THE EQUIPMENT.
 - 5 PROVIDE 1" C. WITH CAT6 CABLE TO ETHERNET SWITCH IN MAIN DATA ROOM FOR REMOTE MONITORING. VERIFY LOCATION OF MAIN DATA ROOM WITH OWNER PRIOR TO COMMENCEMENT OF WORK.
 - 6 PROVIDE LOCKING DEVICE FOR NEW CIRCUIT BREAKER TO MEET CEC 625.43. CIRCUIT BREAKER SHALL BE LOCKABLE OPEN IN ACCORDANCE WITH CEC 110.25.
 - 7 FOR LOCATIONS WHERE EQUIPMENT IS NOT BEING INSTALLED AND CONDUITS ARE BEING INSTALLED FOR FUTURE EQUIPMENT, PROVIDE THREADED CONDUIT COUPLERS WITH SQUARE HEAD CONDUIT PLUGS FLUSH TO FINISHED SURFACE.
 - 8 IDENTIFY AND LABEL EACH SERVICE PER ELECTRICAL SPECIFICATION 26 05 53, SECTION 3.01(H)(3)(i).

- ### GENERAL NOTES
1. ELECTRICAL DESIGN BASED ON CHARGEPOINT CT4000 LEVEL 2 COMMERCIAL CHARGING STATION DESIGN DOCUMENTS.
 2. NOMENCLATURE FOR ELECTRIC VEHICLE CHARGERS IS AS FOLLOWS:
EVCS1 = ELECTRIC VEHICLE CHARGING STATION 1.
 3. PROVIDE ARC FLASH LABELS ON ALL EQUIPMENT PER ELECTRICAL SPECIFICATION 26 05 74.



1 ONE-LINE POWER DIAGRAM (N) "SP" (SITE LIGHTING)
 E2.02 NO SCALE



2 ONE-LINE POWER DIAGRAM (N) "MSBF" (FLEET)
 E2.02 NO SCALE

UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

NO.	DESCRIPTION	DATE	BY

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FIELD BOOK
 CITY# 400164
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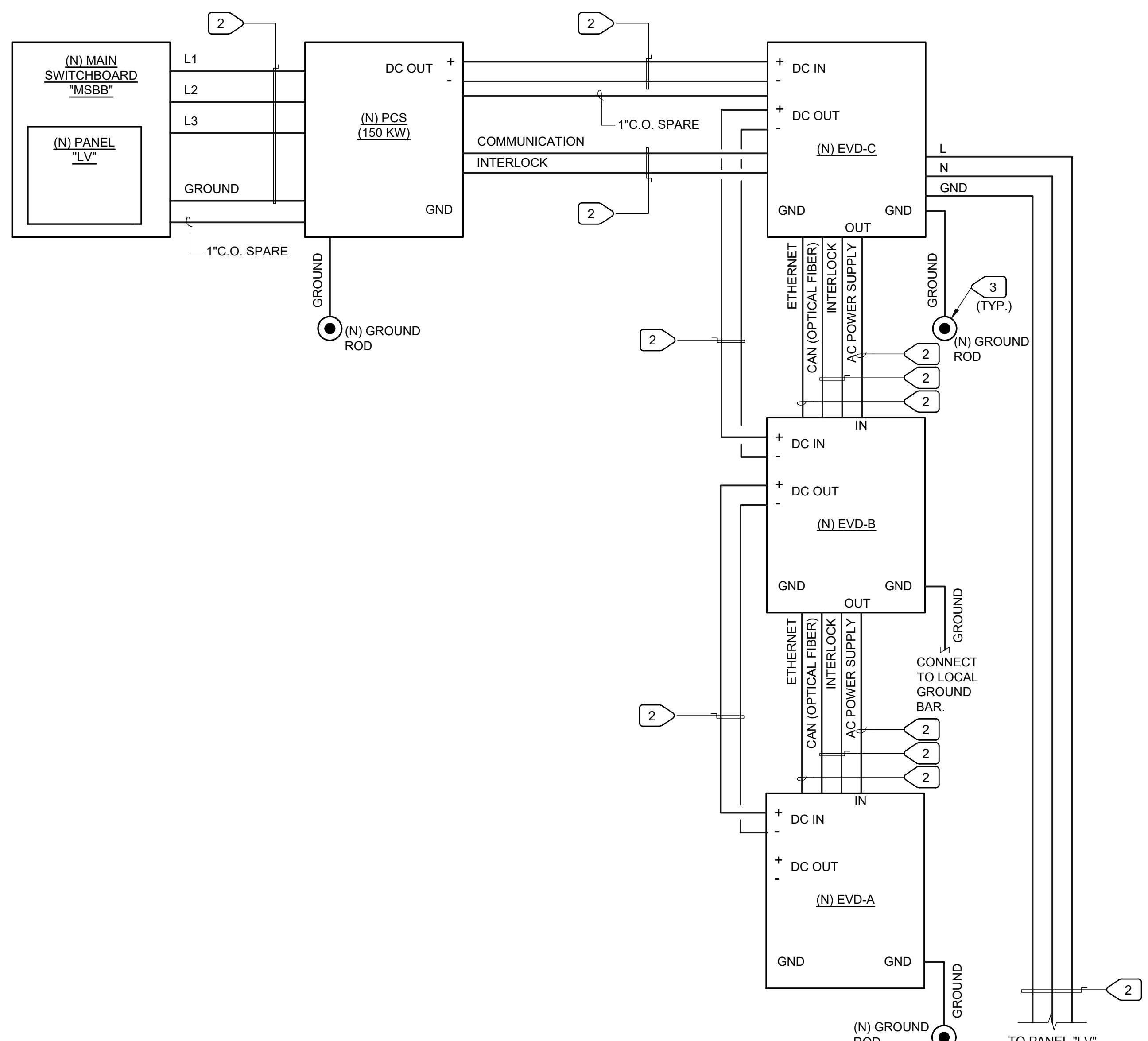
PSOMAS
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 DRAWN BY: WILLIE PUJANES/ BRANDON STEINLEIN DATE: 12/2021
 REGISTERED PROFESSIONAL ENGINEER
 No. E20229
 Exp. 05-31-23
 JESSE BASTIAN
 ELECTRICAL
 STATE OF CALIFORNIA
 12-17-21

**CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT**
 ONE-LINE POWER DIAGRAM (N) "MSBF" (FLEET)

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 PROJECT #: 21028.21
 PROJECT MGR: Julia Brodovskiy

SHEET
 E2.02
 OF
 47

Xref: x21028.21 bdf JUBstamp
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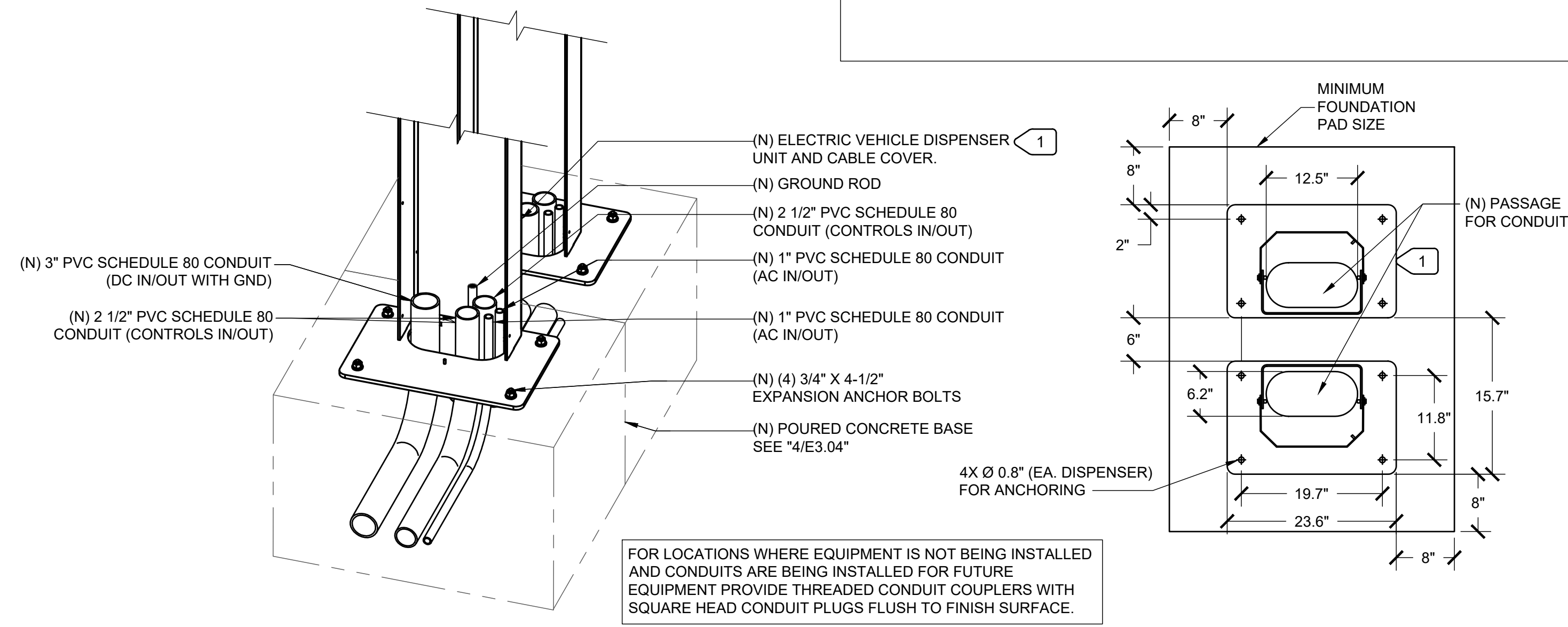
1 OVERVIEW OF TYP. ELECTRICAL CONNECTIONS
E3.01 NO SCALE

GENERAL NOTES

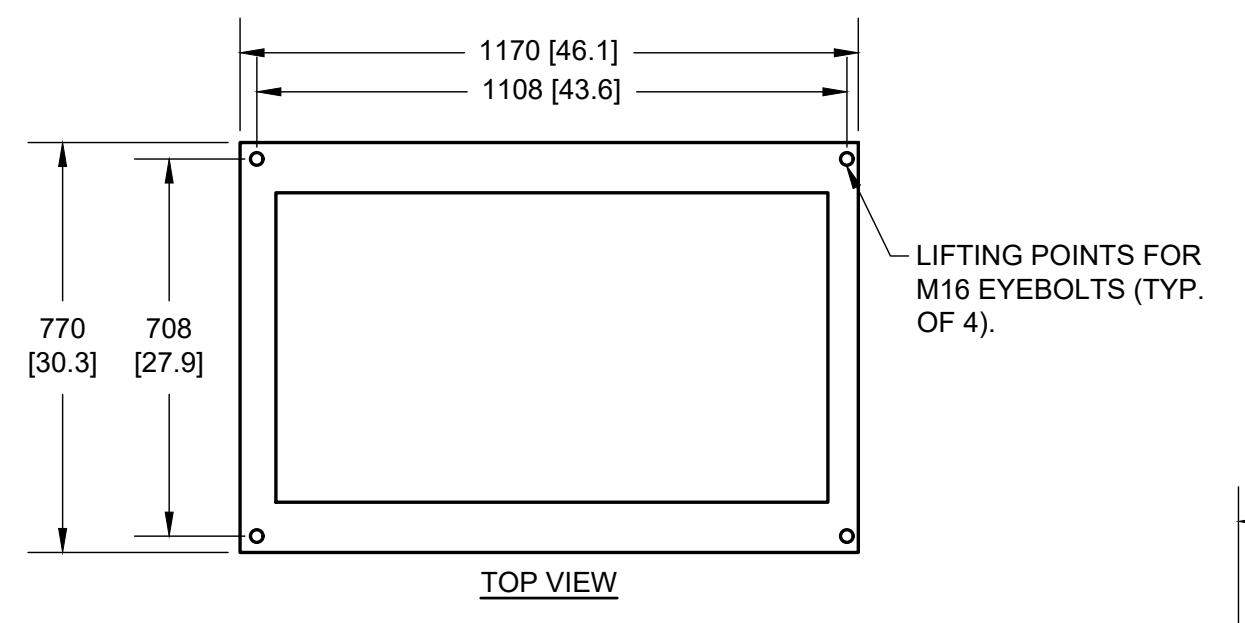
- THE BASIS OF DESIGN FOR THE POWER INFRASTRUCTURE OF THE AC & DC CHARGING EQUIPMENT IS ABB HVC-C 150 E-BUS CHARGER & BUS DEPOT CHARGER PEDESTAL. ALL DETAILS SHOWN ON THIS SHEET ARE INSERTED FROM THE HVC-C 150 E-BUS CHARGER INSTALLATION GUIDE AND MUST BE COORDINATED WITH EXISTING FIELD CONDITIONS.
- DIMENSIONS ARE SHOWN IN MILLIMETERS AND [INCHES] IN BRACKETS.

NUMBERED NOTES

- NEW BASE FOR EVD DISPENSERS. COORDINATE WITH EXISTING CONDUIT STUBS AND CONVENIENCE RECEPTACLE. SEE SHEET E1.02 FOR EXACT LOCATIONS OF CONVENIENCE RECEPTACLES.
- SEE ONE-LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZE/QUANTITY.
- SEE SHEET E1.02 FOR GROUND ROD LOCATIONS.



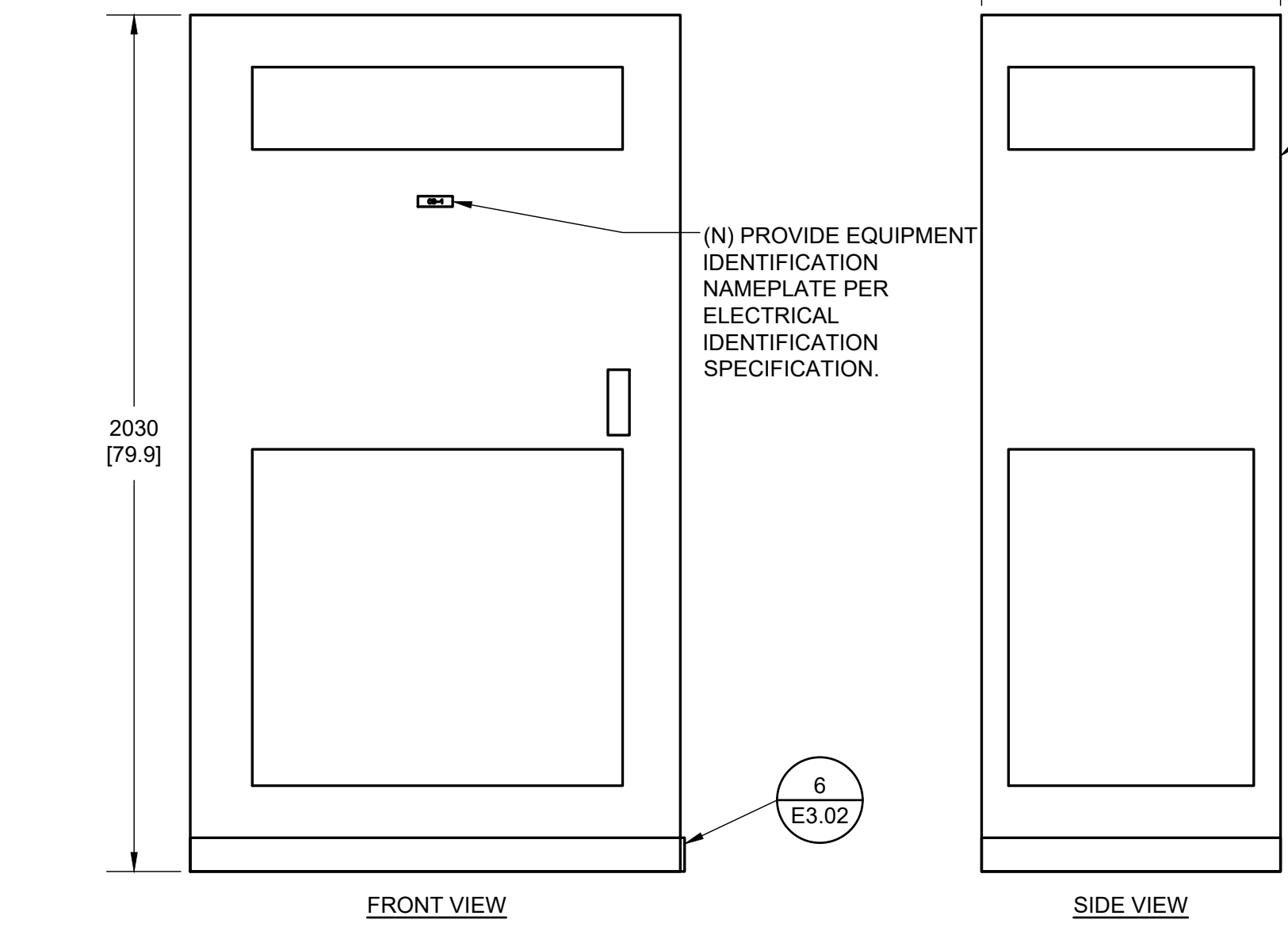
2 TYPICAL "EVD" ELECTRIC VEHICLE DEPOT BACK TO BACK FOUNDATION
E3.01 NO SCALE



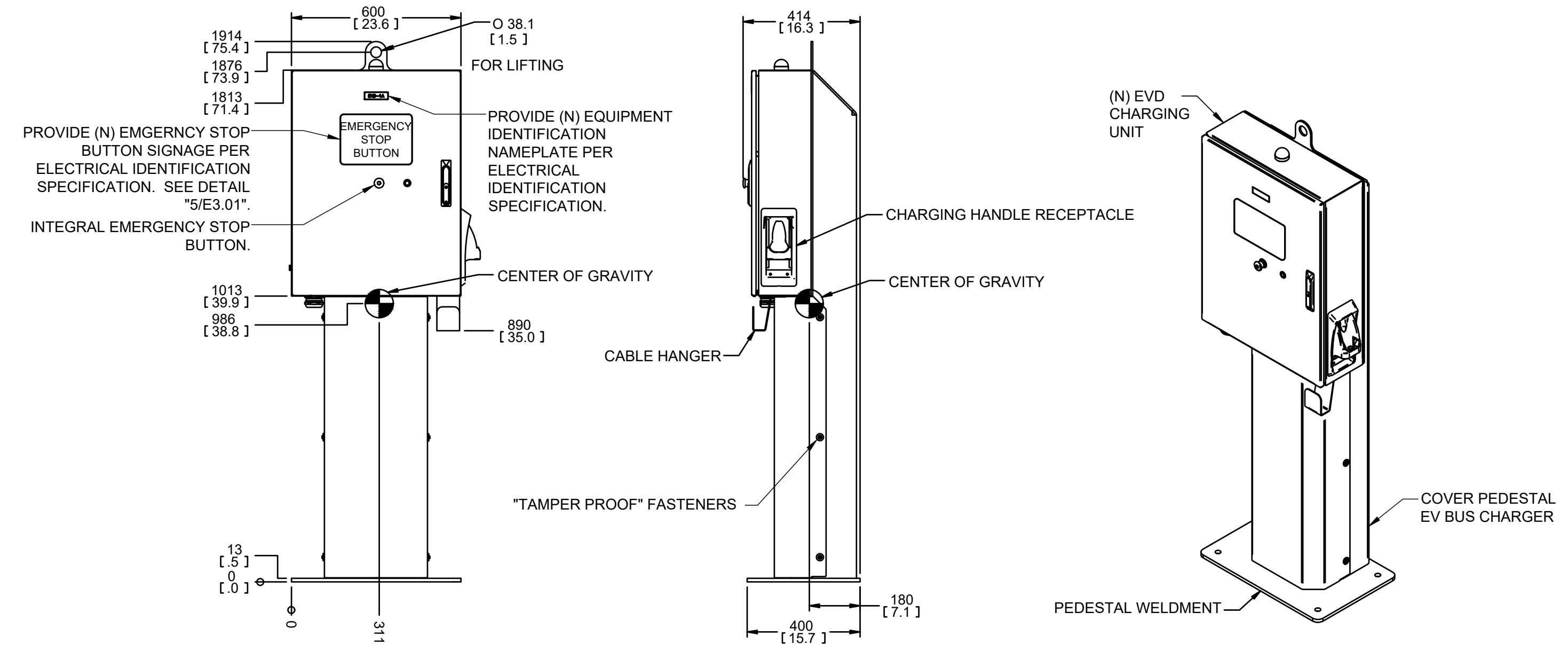
EMERGENCY STOP BUTTON

- NOTE:
- PER ELECTRICAL SPECIFICATION SECTION 26 05 53 ELECTRICAL SYSTEMS IDENTIFICATION, SECTION 2.4.
 - PLACE ON ALL EVD UNITS.
 - RED BACKGROUND.
 - WHITE LETTERING.
 - MINIMUM 1" LETTER HEIGHT.
 - ALL CAPITAL LETTERS.
 - SHANNON OR SIMILAR FONT, NON-BOLD.
 - REFLECTIVE WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT. (DURABLE ADHESIVE MATERIALS MAY MEET THIS REQUIREMENT).
 - WARNING LABEL SHALL APPEAR ON FRONT FACE OF EVD UNIT DIRECTLY NEAR THE EMERGENCY PUSH BOTTON. PLACE WARNING LABEL IN THE SAME LOCATION ON EACH UNIT.

5 EMERGENCY STOP BUTTON SIGNAGE
E3.01 NO SCALE



4 TYPICAL "PCS" CHARGER PEDESTAL ELEVATION
E3.01 NO SCALE



3 TYPICAL "EVD" CHARGER PEDESTAL ELEVATION
E3.01 NO SCALE

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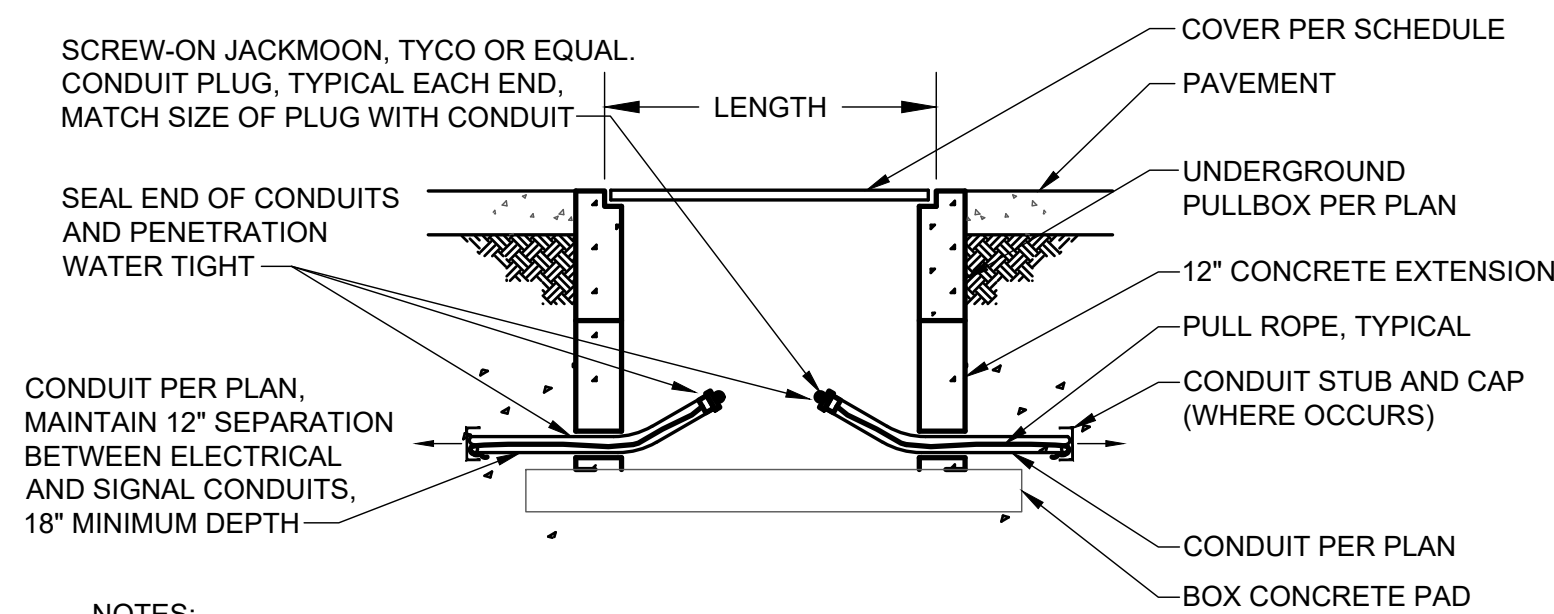
**CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT**

ELECTRICAL DETAILS

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 Electrical Engineers | Lighting Designers
 100 Howe Ave., Suite 235N
 Sacramento, CA 95825-8217
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 Tel: (916) 923-4400
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 PROJECT MGR: Julia Brodovsky

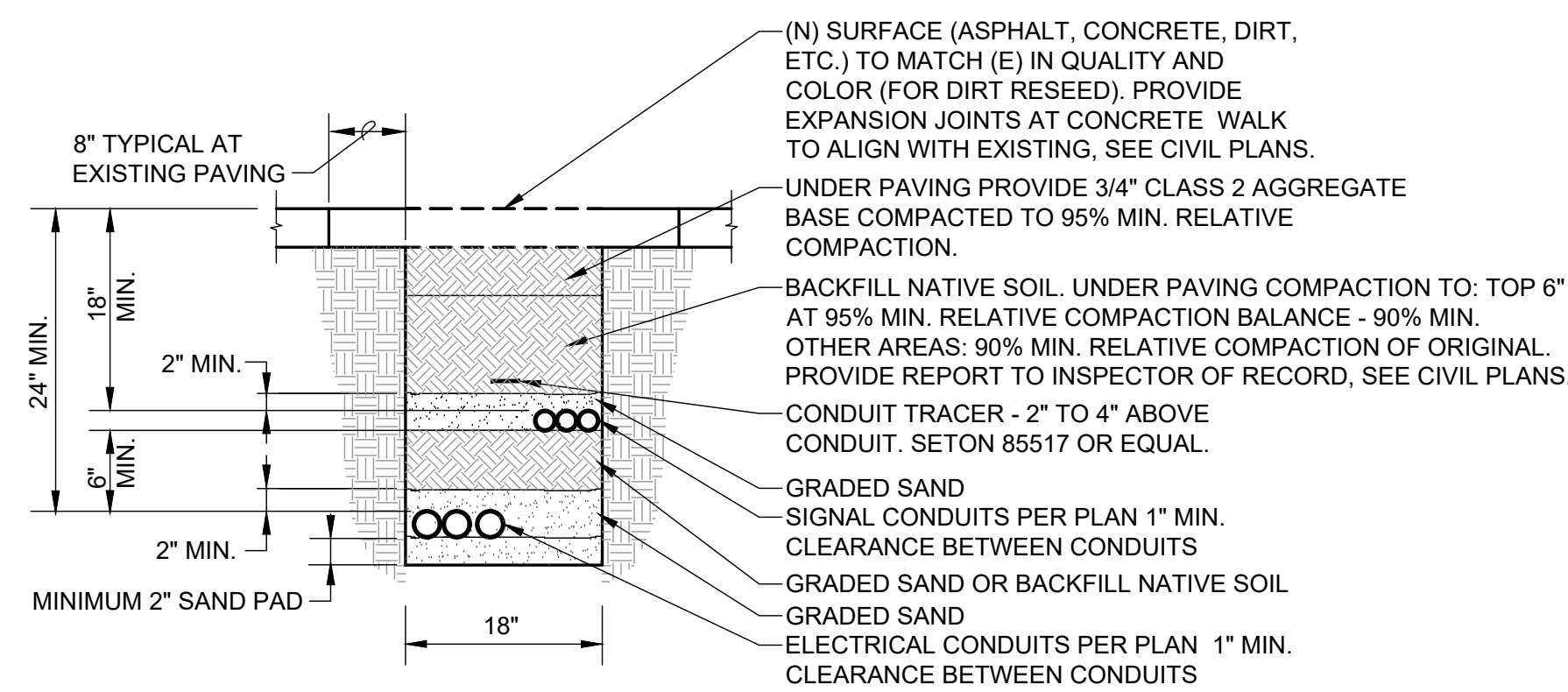
UNDERGROUND PULL BOX SCHEDULE (TRAFFIC RATED)			
	WIDTH	LENGTH	DEPTH
PB11	10-5/8"	17-1/4"	12"
PB17	17"	30"	12"
PB36	24"	36"	12"
PB48	30"	48"	12"

REFER TO PLAN FOR LOCATION OF BOXES AND TYPES USED.

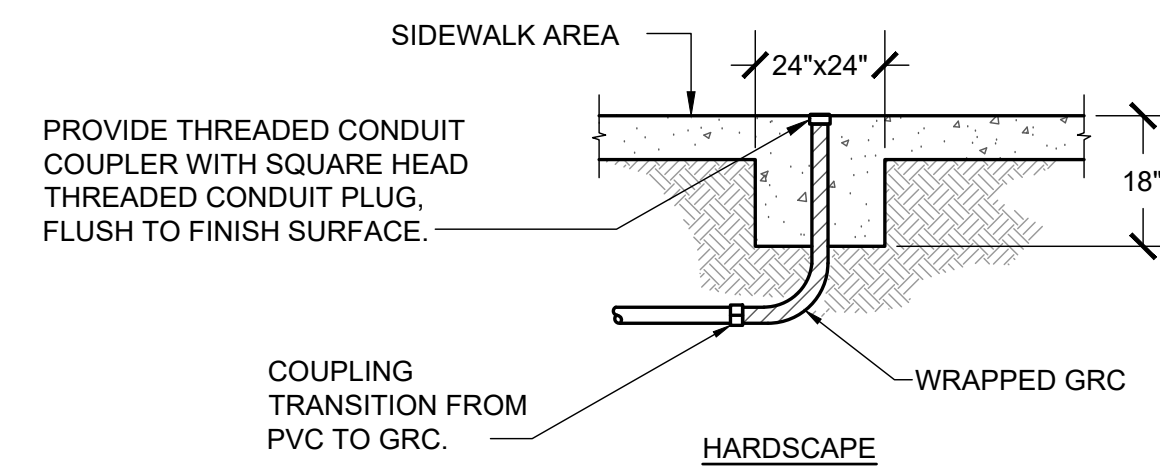


- NOTES:
- CLEAN 2" AND LARGER SPARE EMPTY CONDUITS WITH APPROPRIATE SIZE MANDREL PRIOR TO PLACING PULL ROPE AND PLUGGING EMPTY CONDUITS WITH CONDUIT PLUGS.
 - PULL ROPE: TIE OFF EACH END TO DUCT PLUG TO PREVENT PULL ROPE LOSS IN CONDUIT.

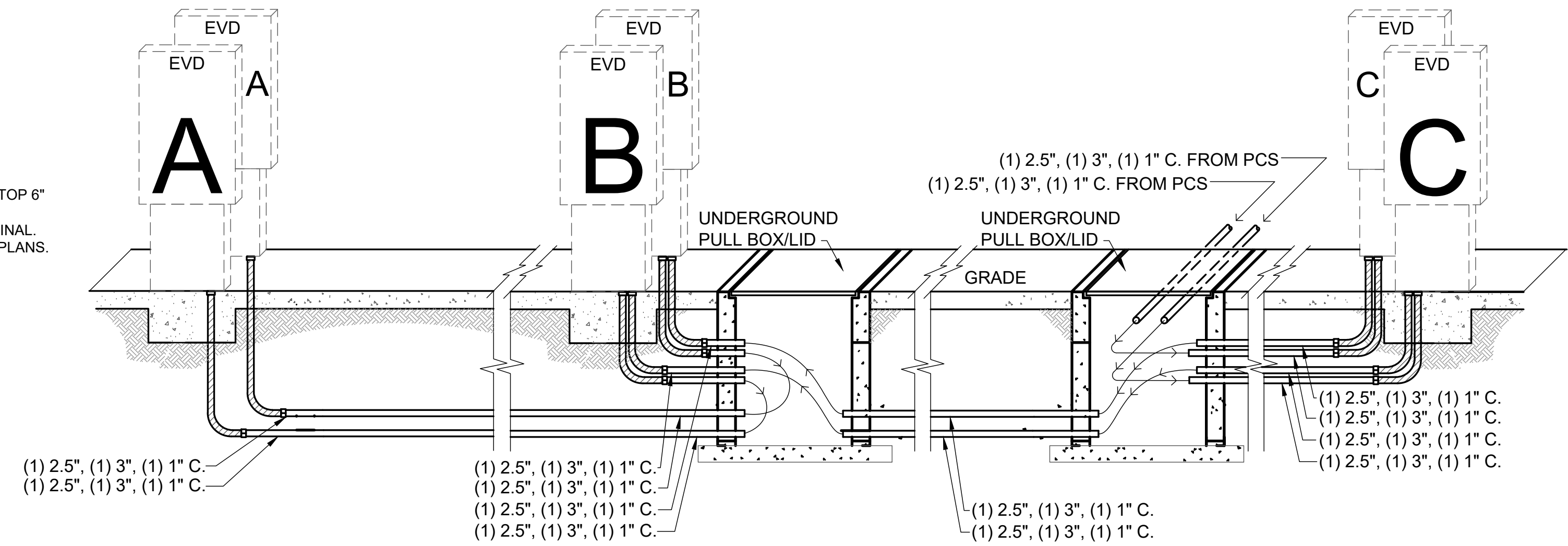
1 UNDERGROUND PULL BOX (TRAFFIC RATED)
E3.02 NO SCALE



2 TYP. CONDUIT TRENCHING DETAIL
E3.02 NO SCALE

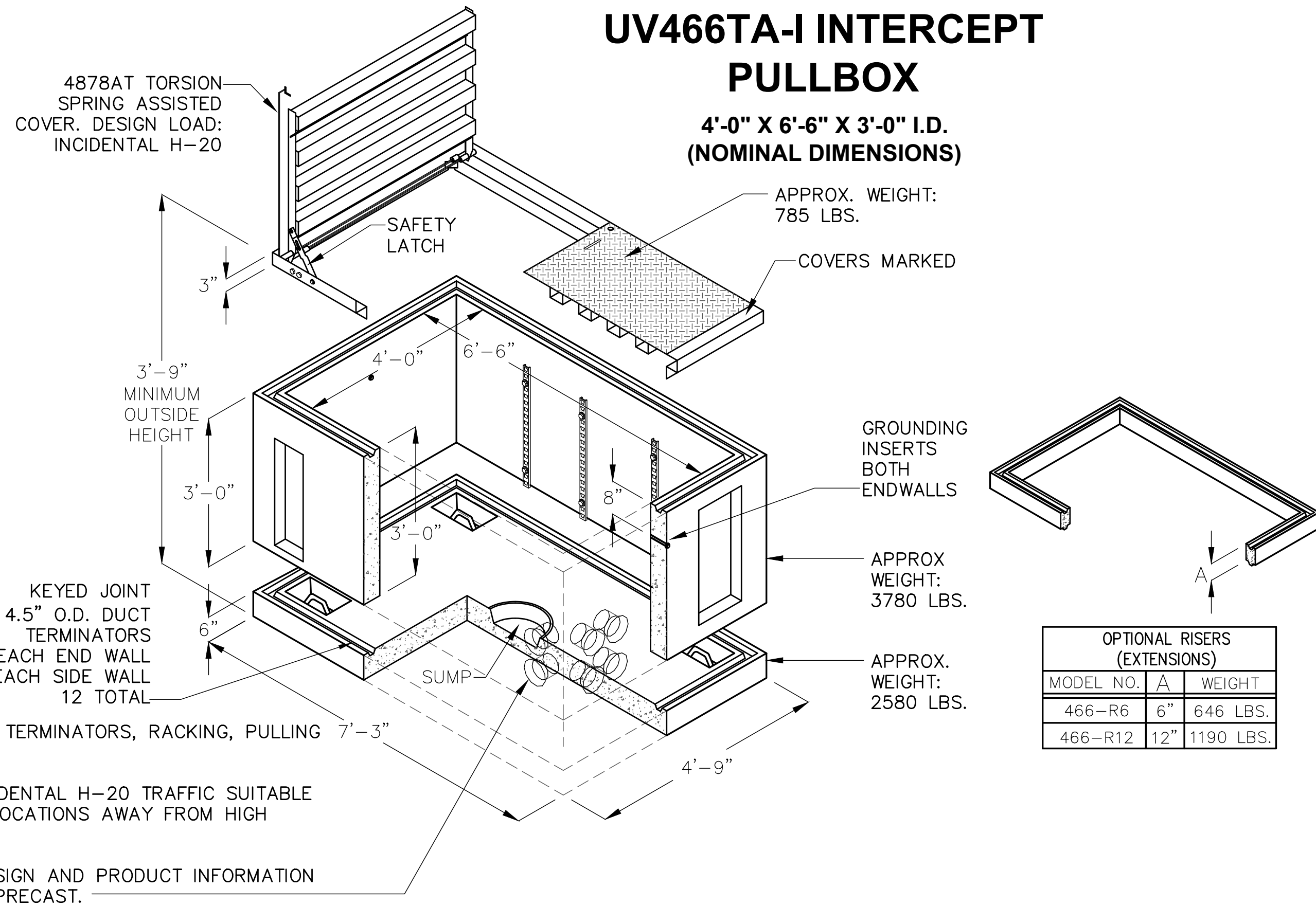


4 CONDUIT STUB DETAIL
E3.02 NO SCALE
APPLIES TO ALL STUB-UPS FOR FUTURE EVCS. SEE SITE PLAN FOR LOCATIONS



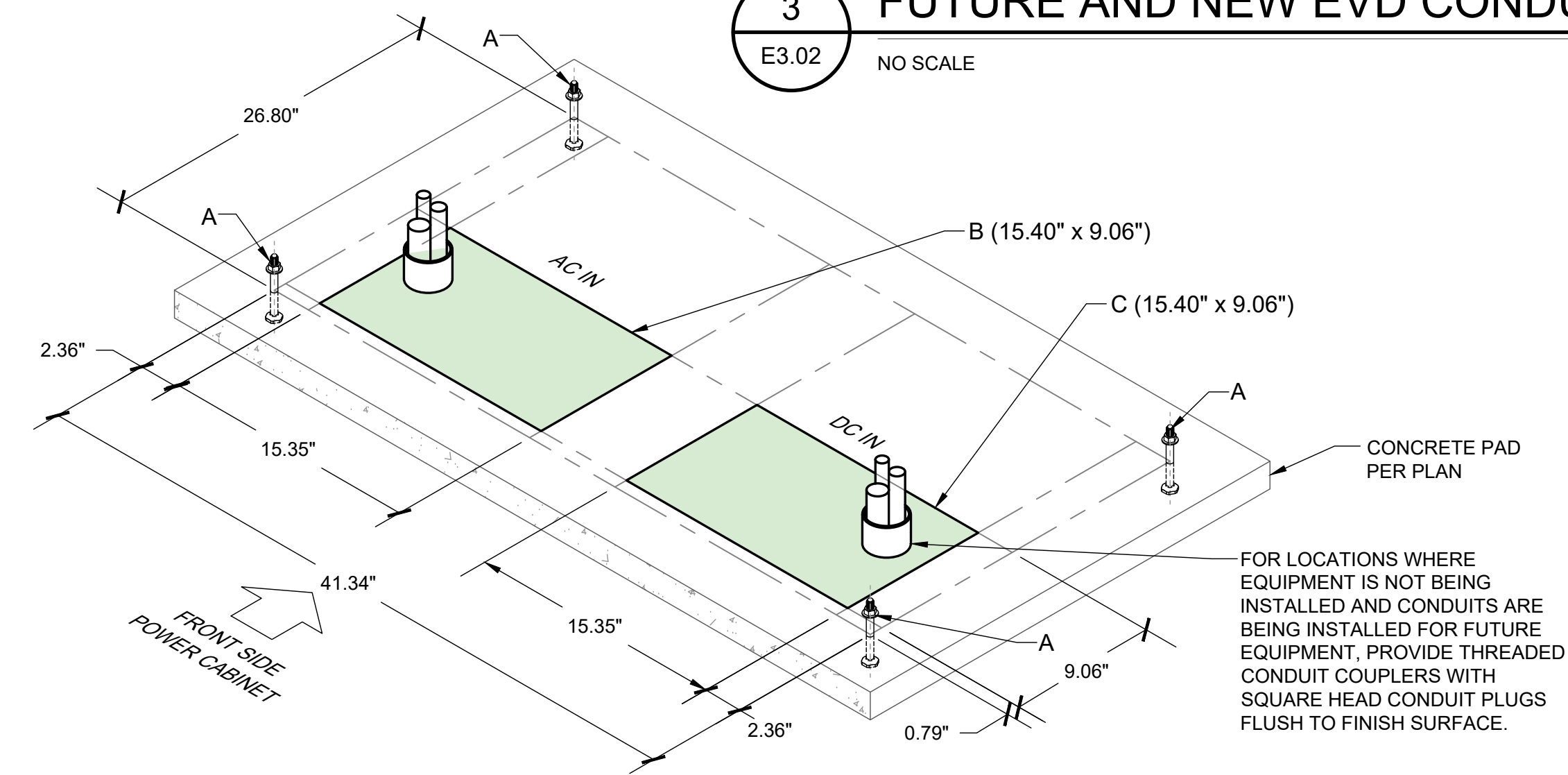
3 FUTURE AND NEW EVD CONDUIT UNDERGROUND DETAIL
E3.02 NO SCALE

UV466TA-I INTERCEPT PULLBOX
4'-0" X 6'-6" X 3'-0" I.D. (NOMINAL DIMENSIONS)



OPTIONAL RISERS (EXTENSIONS)			
MODEL NO.	A	WEIGHT	
466-R6	6"	646 LBS.	
466-R12	12"	1190 LBS.	

5 TYP. UNDERGROUND PULL BOX "PB78" DETAIL
E3.02 NO SCALE



- PREPARE RECTANGULAR HOLES IN THE CONCRETE AS SHOWN IN POSITIONS (B) AND (C). THE HOLES ARE TO ALLOW ROOM FOR CABLE BENDING AND SHOULD HAVE SUFFICIENT DEPTH.
- SELECT CONDUIT LOCATIONS WITHIN THE HOLES IN A WAY TO SATISFY THE LOCAL REQUIREMENTS FOR CABLE BENDING, ESPECIALLY FOR THE AC INPUT AND DC INPUT CABLES.
- ENSURE CABLING BETWEEN THE CONDUIT EXIT WITHIN THE HOLES AND INTO THE POWER CABINET'S CABLE ENTRY PLATE COMPLIES WITH THE LOCAL CODES. SEE 3/E3.04*

6 "PCS" FOUNDATION DETAIL
E3.02 SCALE: NONE

Xrefs: x21028.21_bdf_JUBstamp
 Images: MorseCUP-ELEC-CADWELD-2-2054145.jpg; MorseCUP-ELEC-CADWELD-4-2054153.jpg; cropped_COR_black_logo.tif
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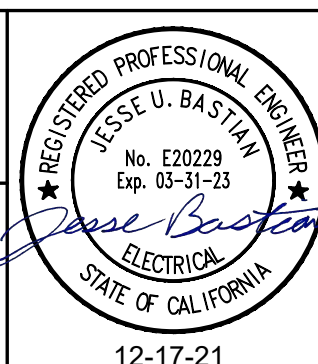
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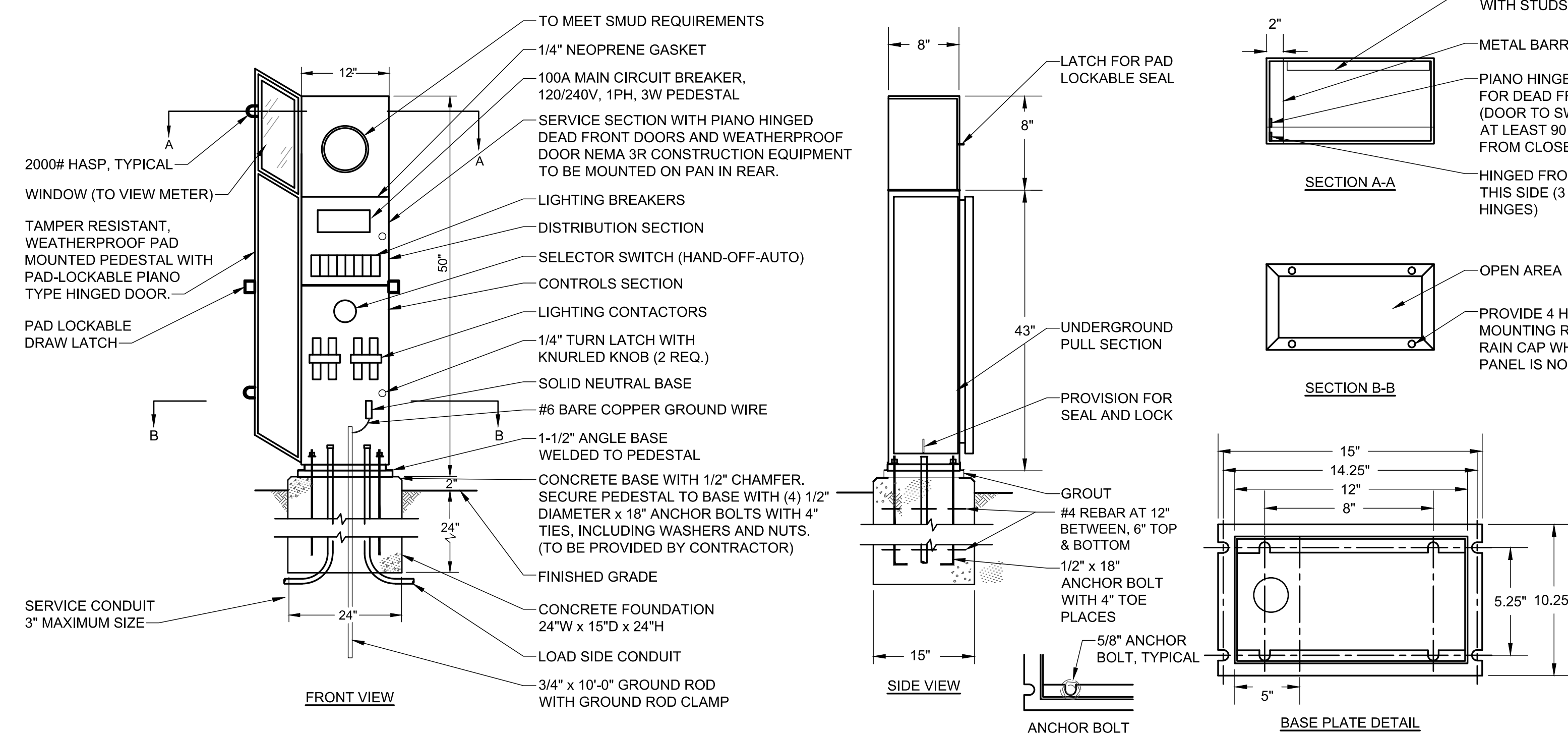


**CITY OF ROSEVILLE CORPORATION YARD
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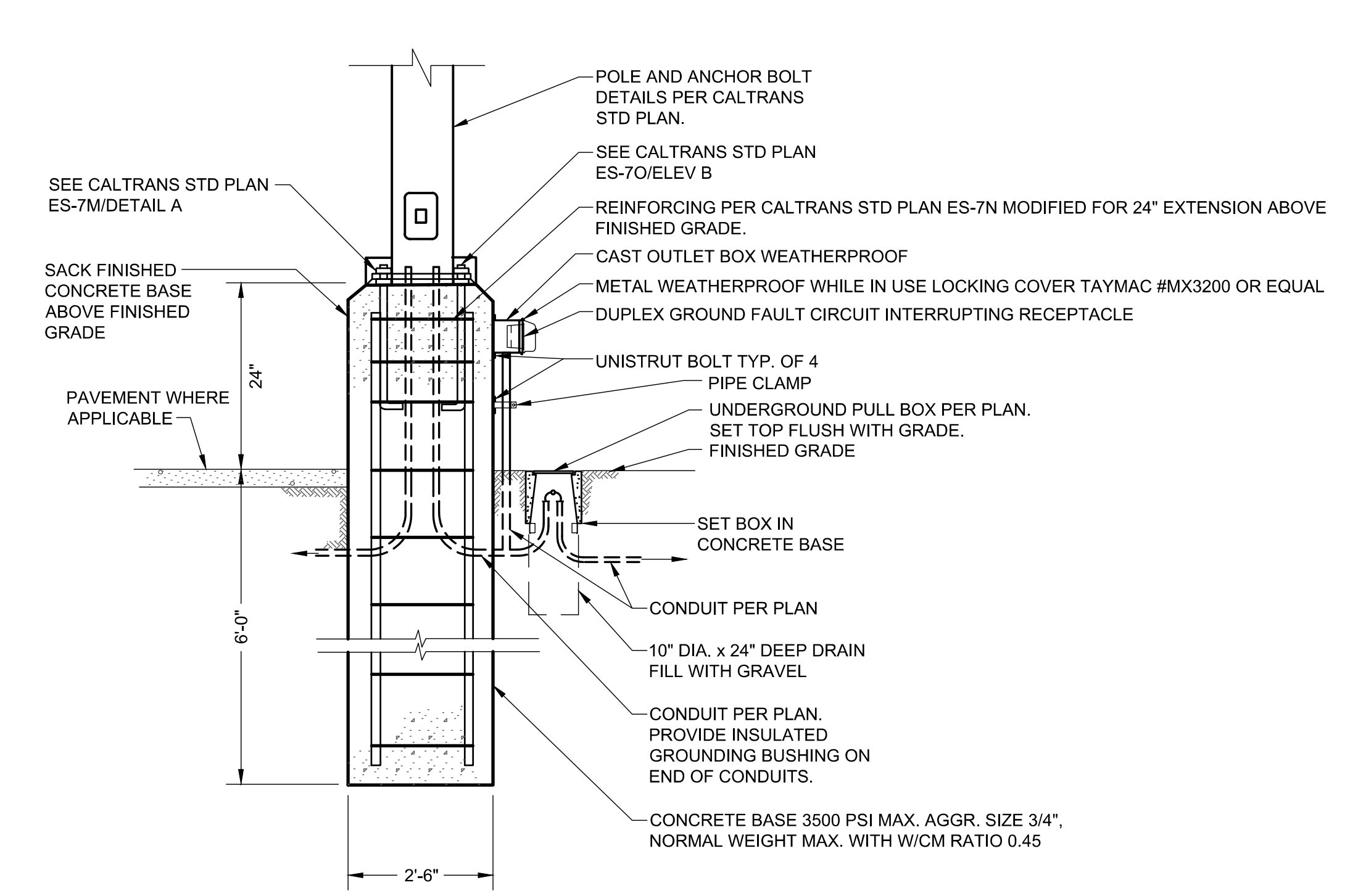
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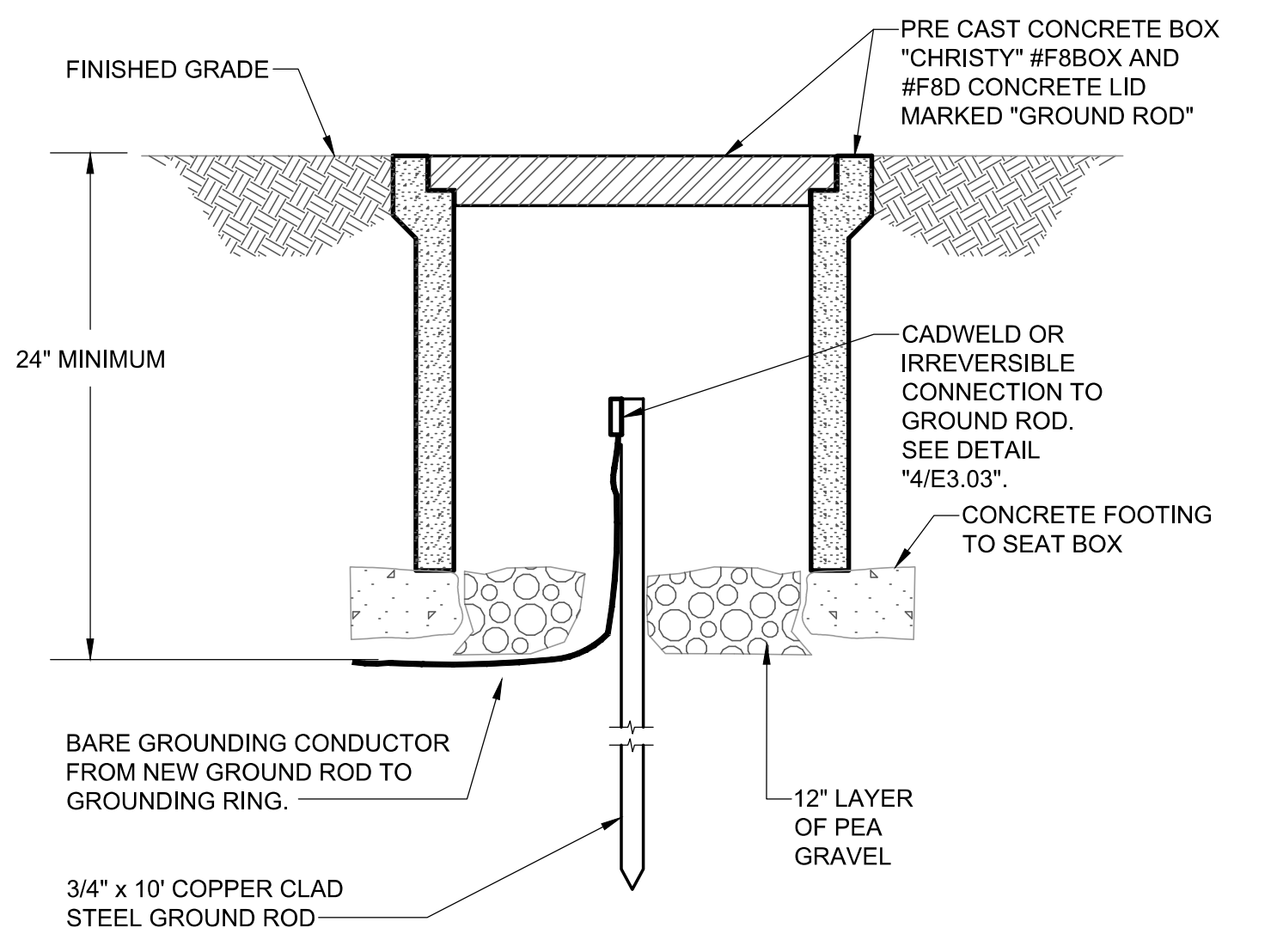
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1 METERED SERVICE - "SP" PEDESTAL ELEVATION AND DETAILS (26-100)
 E3.03 NO SCALE

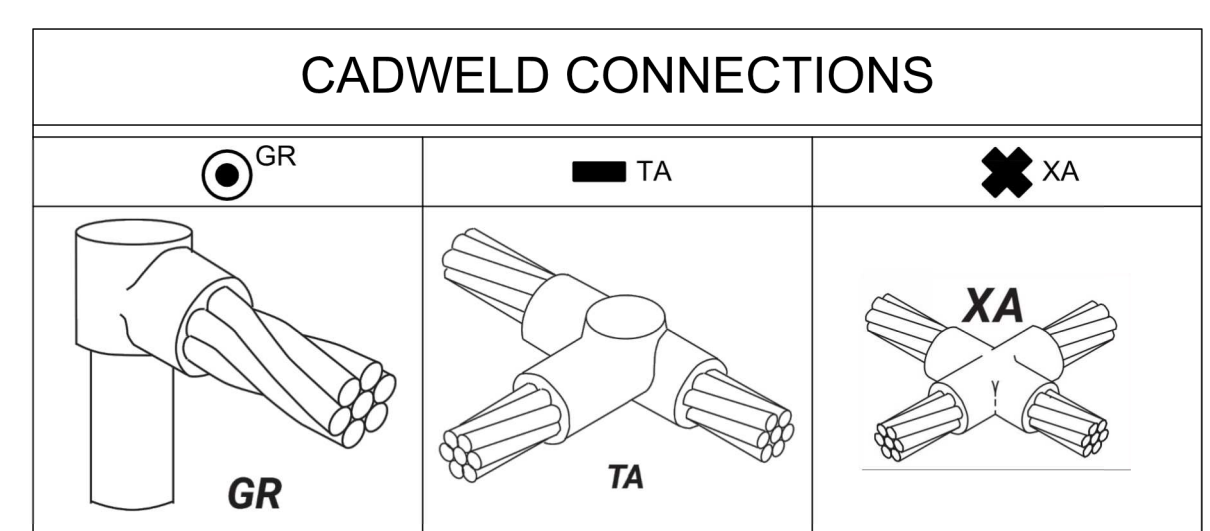


2 POLE BASE MOUNTING DETAIL
 E3.03 NO SCALE

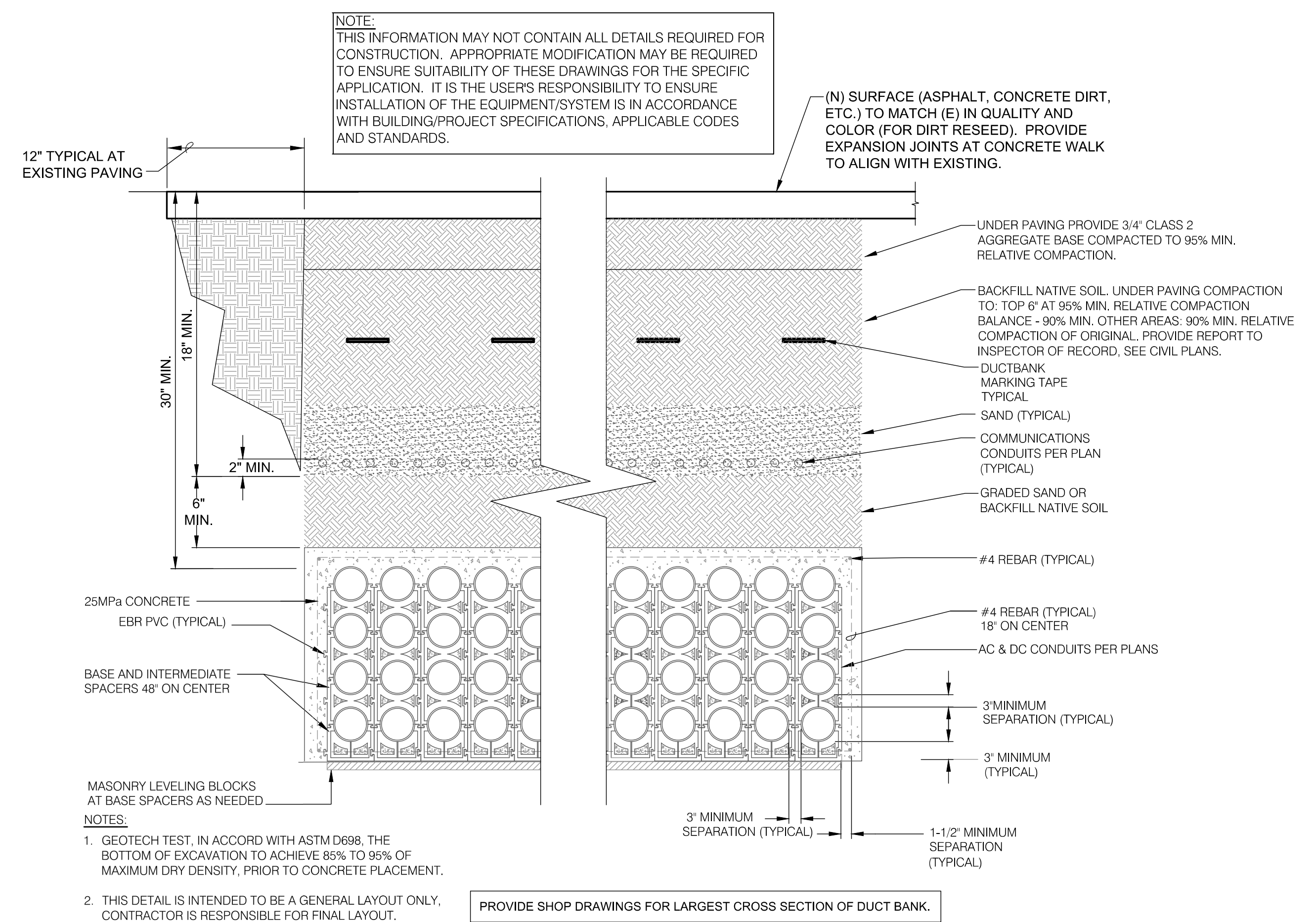


3 GROUND ROD AND BOX DETAIL
 E3.03 NO SCALE

CADWELD CONNECTION LIST	
SYMBOL ITEM	CADWELD DESCRIPTION
● GR	GROUND ROD
■ TA	T-CONNECTION
✱ XA	X-CONNECTION



4 CADWELD CONNECTIONS
 E3.03 SCALE: NO SCALE



5 TYP. PCS TO EVD DUCT BANK SECTION DETAIL
 E3.03 NO SCALE

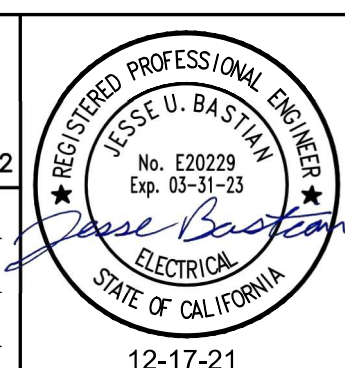
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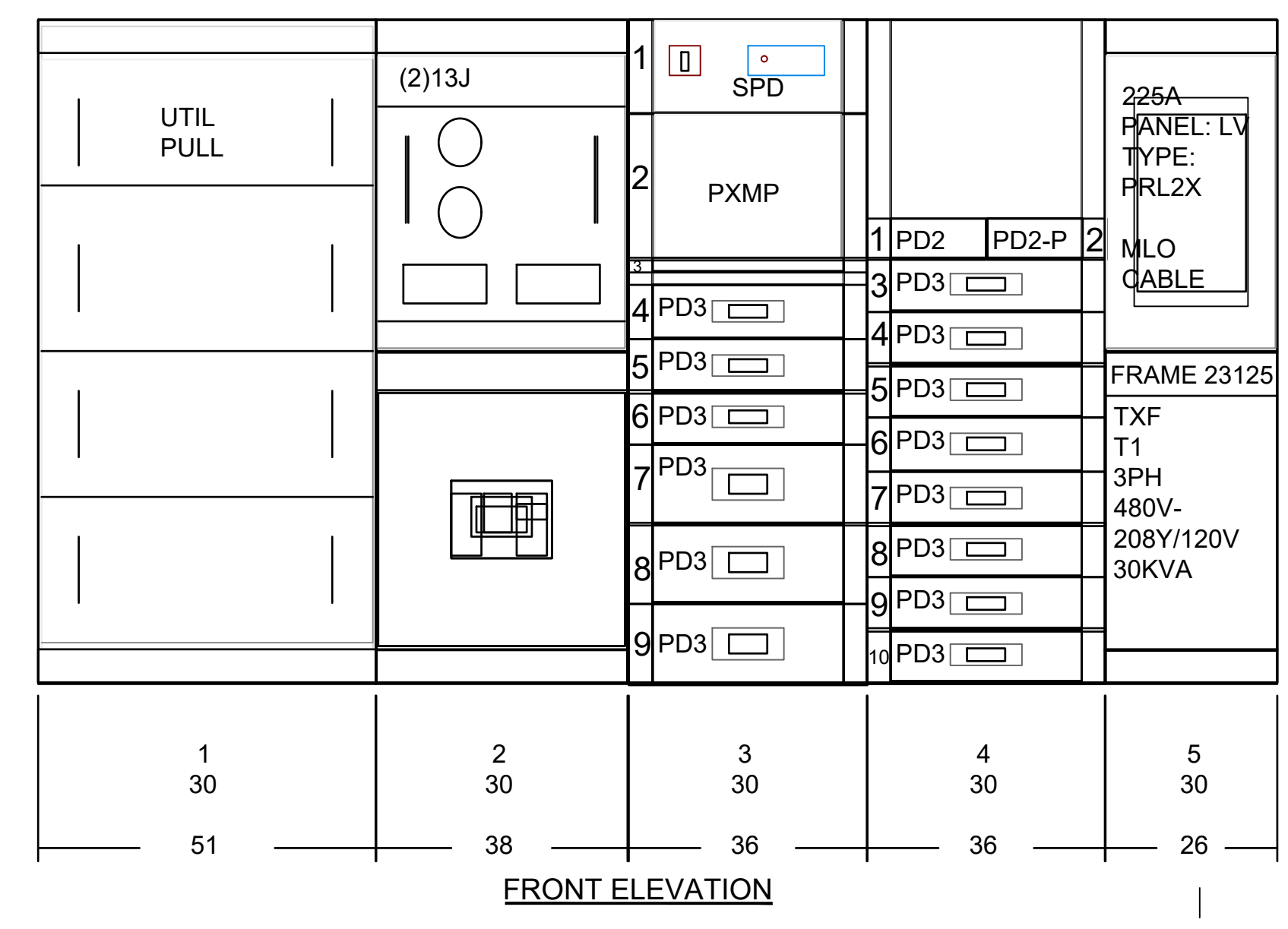
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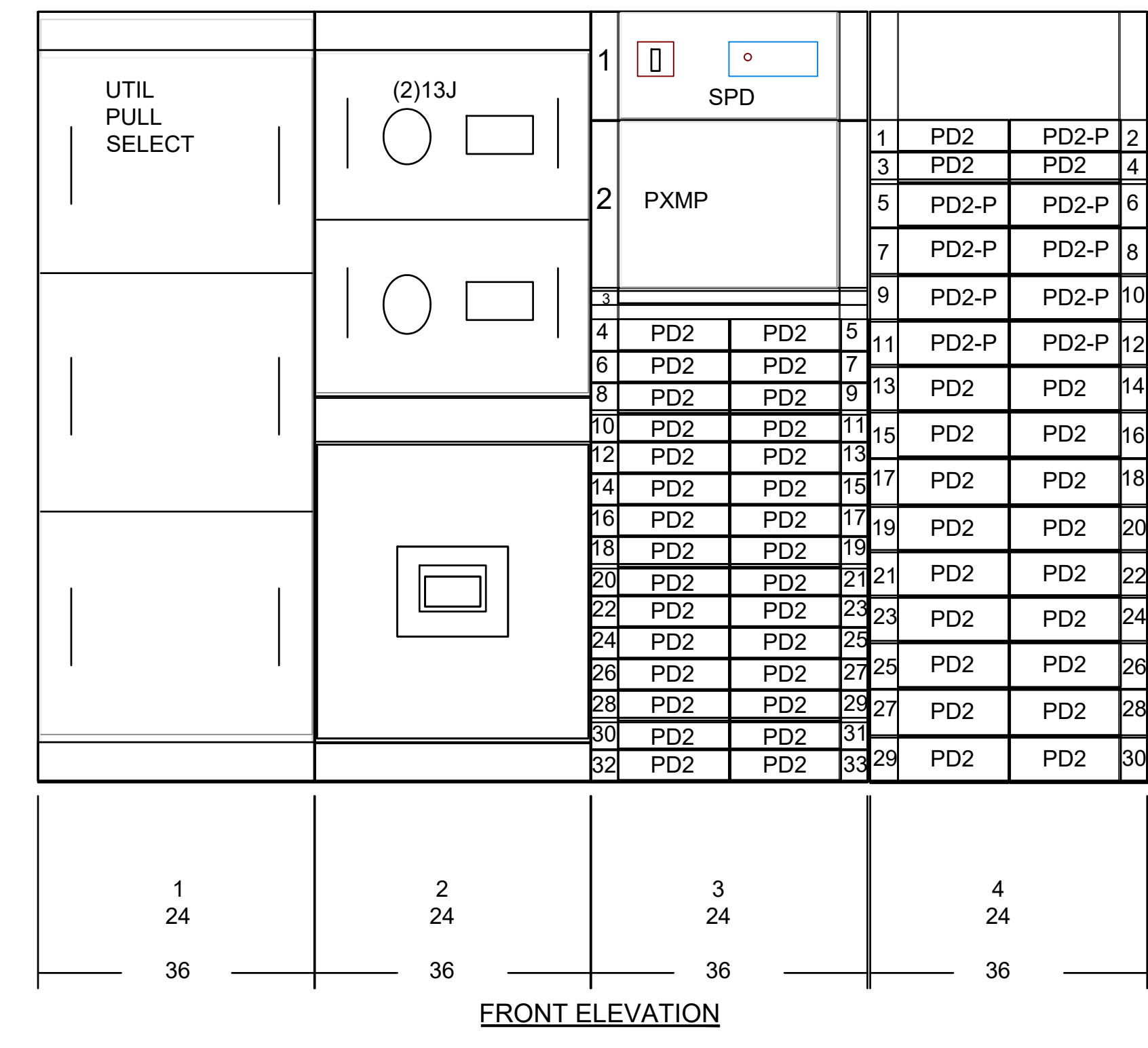
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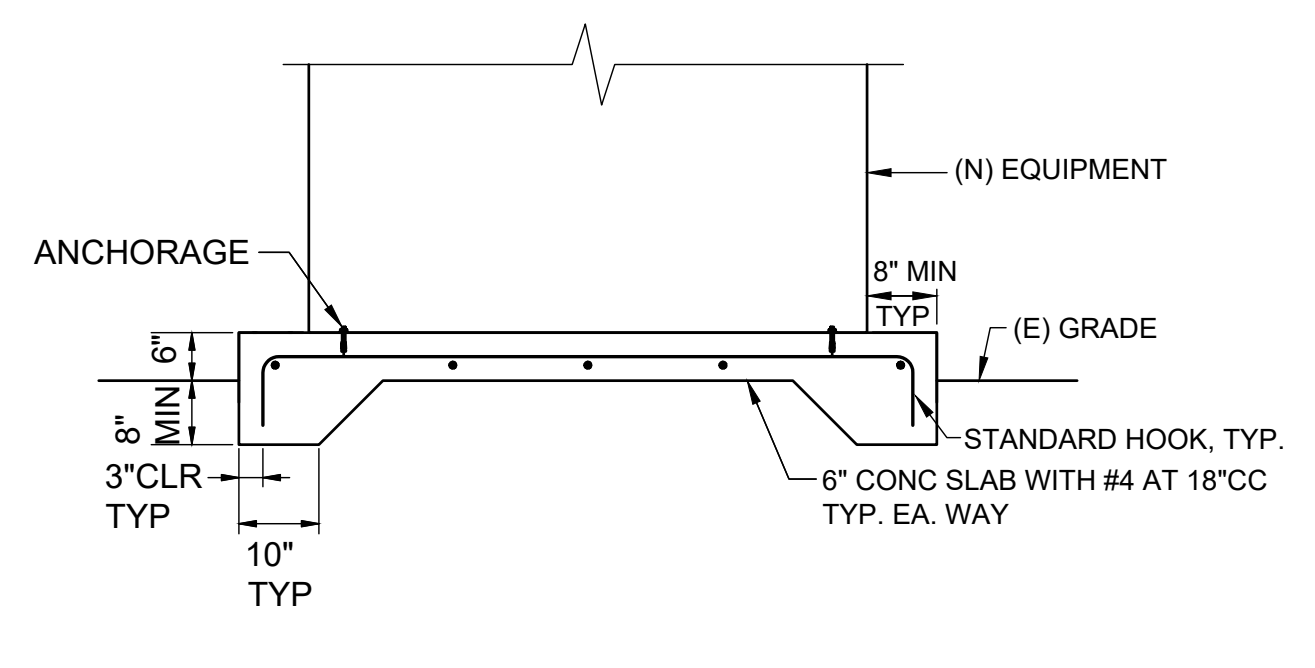
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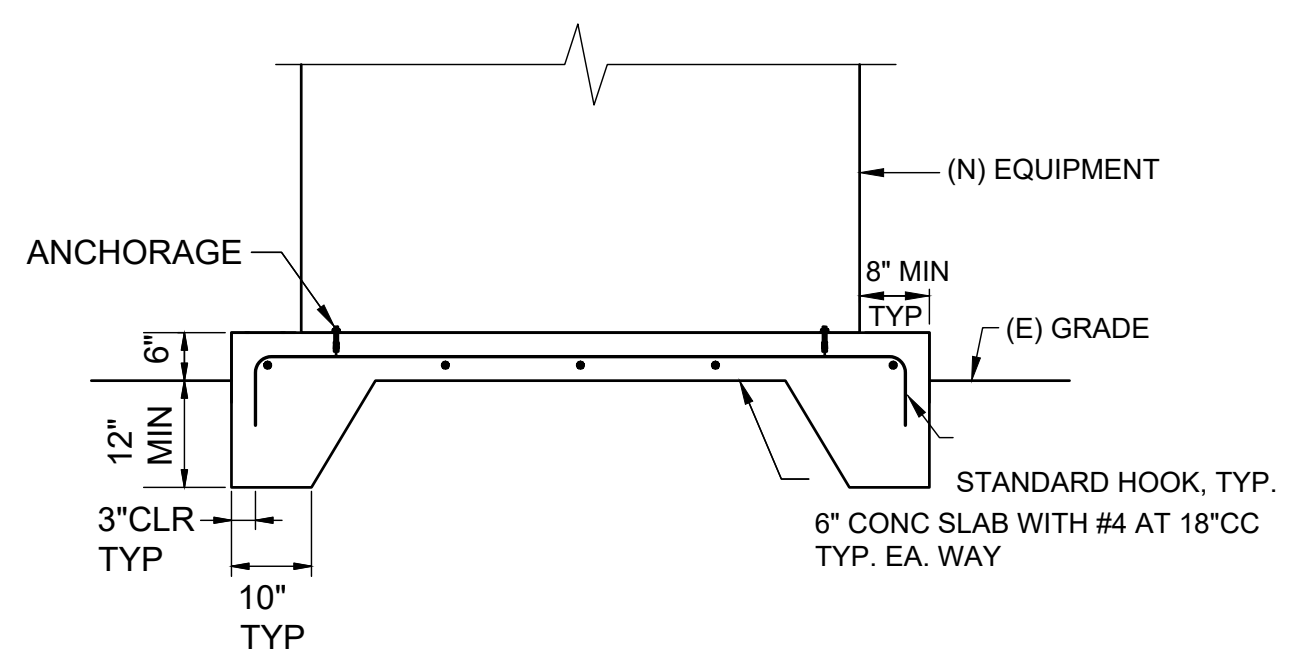
1 MAIN SWITCHBOARD "MSBB" MOUNTING DETAIL
E3.04 NO SCALE



2 MAIN SWITCHBOARD "MSBF" MOUNTING DETAIL
E3.04 NO SCALE



3 TYPICAL EQUIPMENT PAD DETAIL
E3.04 NO SCALE



4 TYPICAL EVD & EVCS EQUIPMENT PAD DETAIL
E3.04 NO SCALE

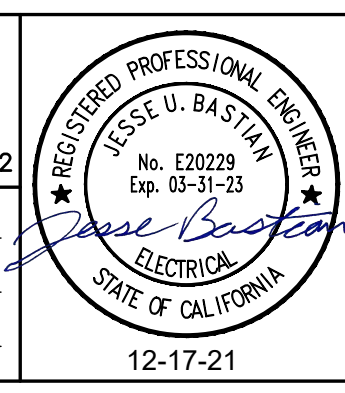
NO.	REVISIONS DESCRIPTION	DATE	BY

BENCH MARK ELEV. SEE NOTES
 THE VERTICAL DATUM OF THIS MAPPING IS BASED ON THE CITY OF ROSEVILLE BENCHMARKS 65, 66, 85, AND 90, ADJUSTED TO NAVD88 BY ADDING A PROJECT FACTOR OF +2.16 FEET.

FIELD BOOK
 CITY# 400164
 SCALE
 HORIZ. _____
 VERT. _____



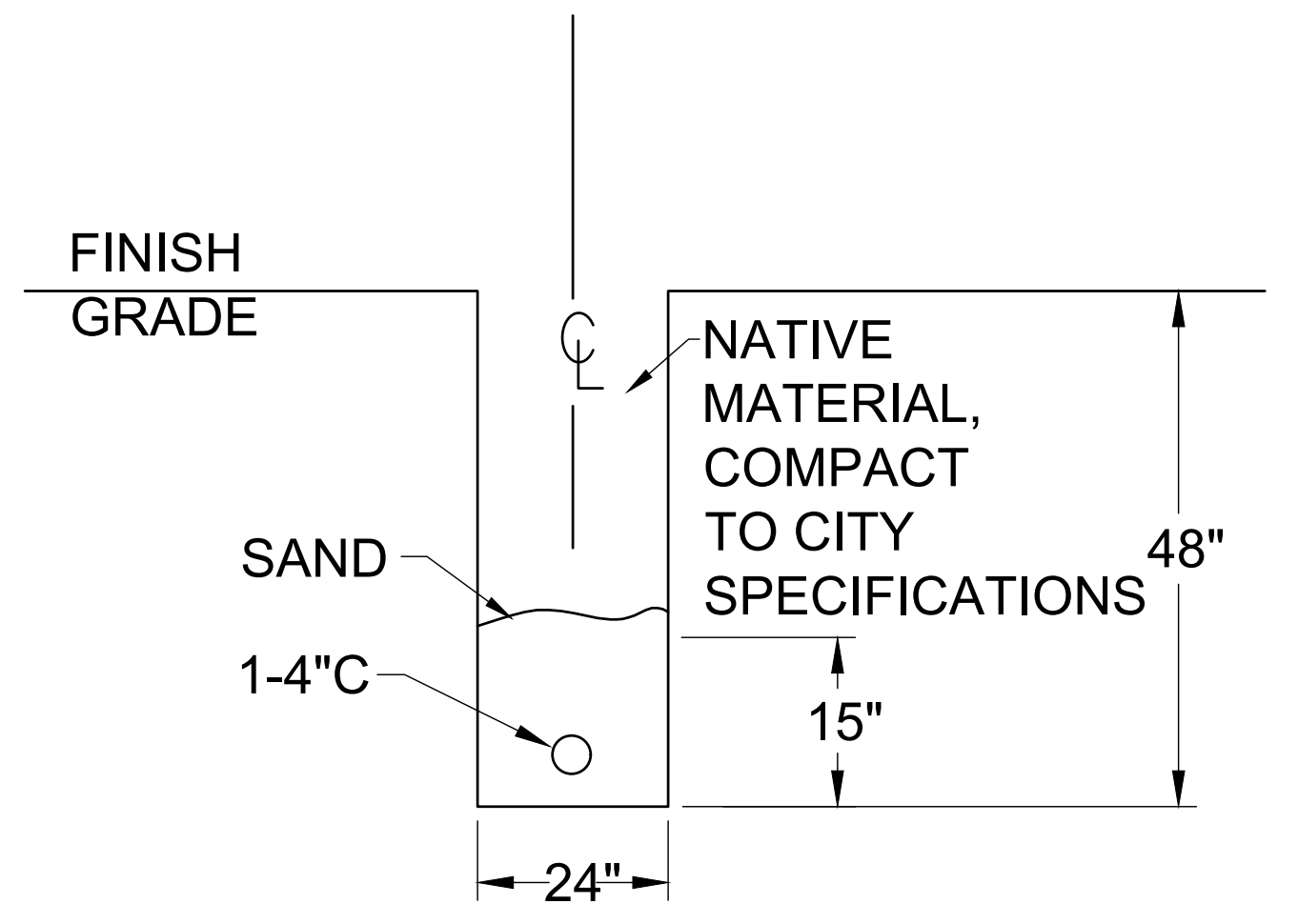
PSOMAS
 1075 Creekside Ridge Way, Suite 200 Roseville, CA 95678 (916) 788-8122
 DESIGNED BY: JULIA BRODOVSKY DATE: 12/2021
 CHECKED BY: JESSE BASTIAN DATE: 12/2021
 DRAWN BY: WILLIE PUJANES/ BRANDON STEINLEIN DATE: 12/2021



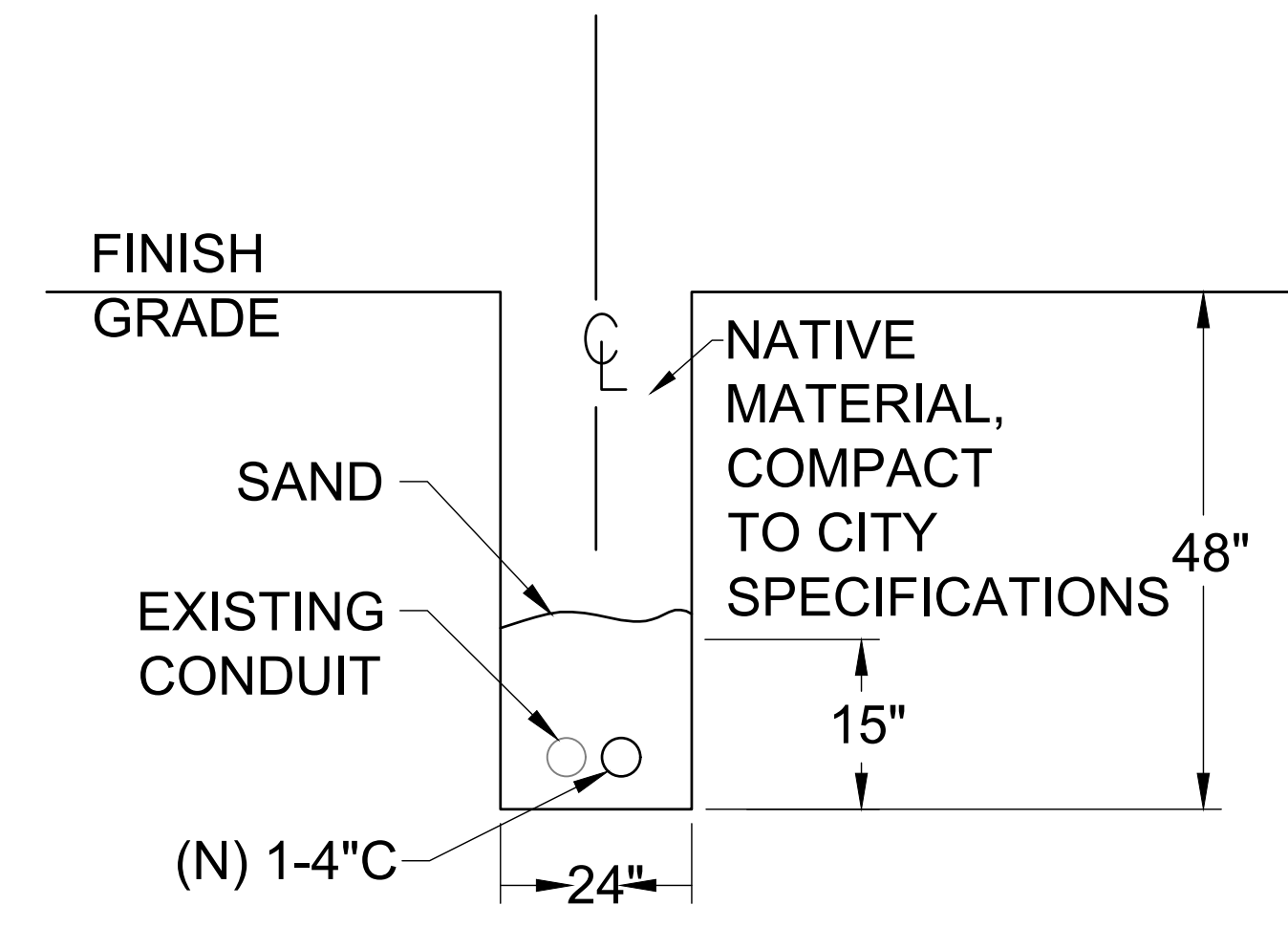
**CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT**
 ELECTRICAL DETAILS

M. NEILS ENGINEERING, INC.
 Electrical Engineers | Lighting Designers
 100 Howe Ave., Suite 235N
 Sacramento, CA 95825-8217
 www.mneilsengineering.com
 Tel: (916) 923-4400
 PROJECT #: 21028.21
 PROJECT MGR: Julia Brodovskiy

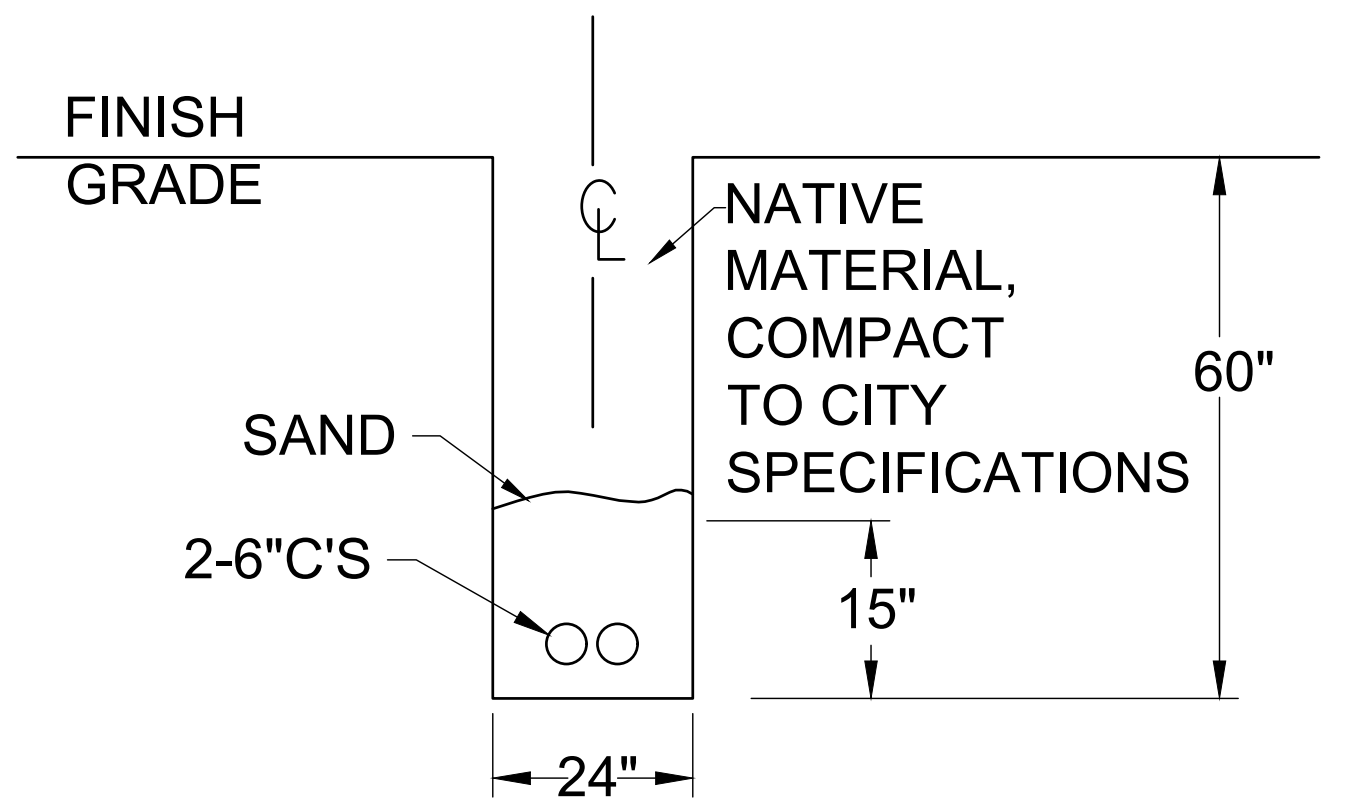
Xref: x21028.21.tbl; JUBstamp
 UNAUTHORIZED CHANGES & USBS:
 M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.



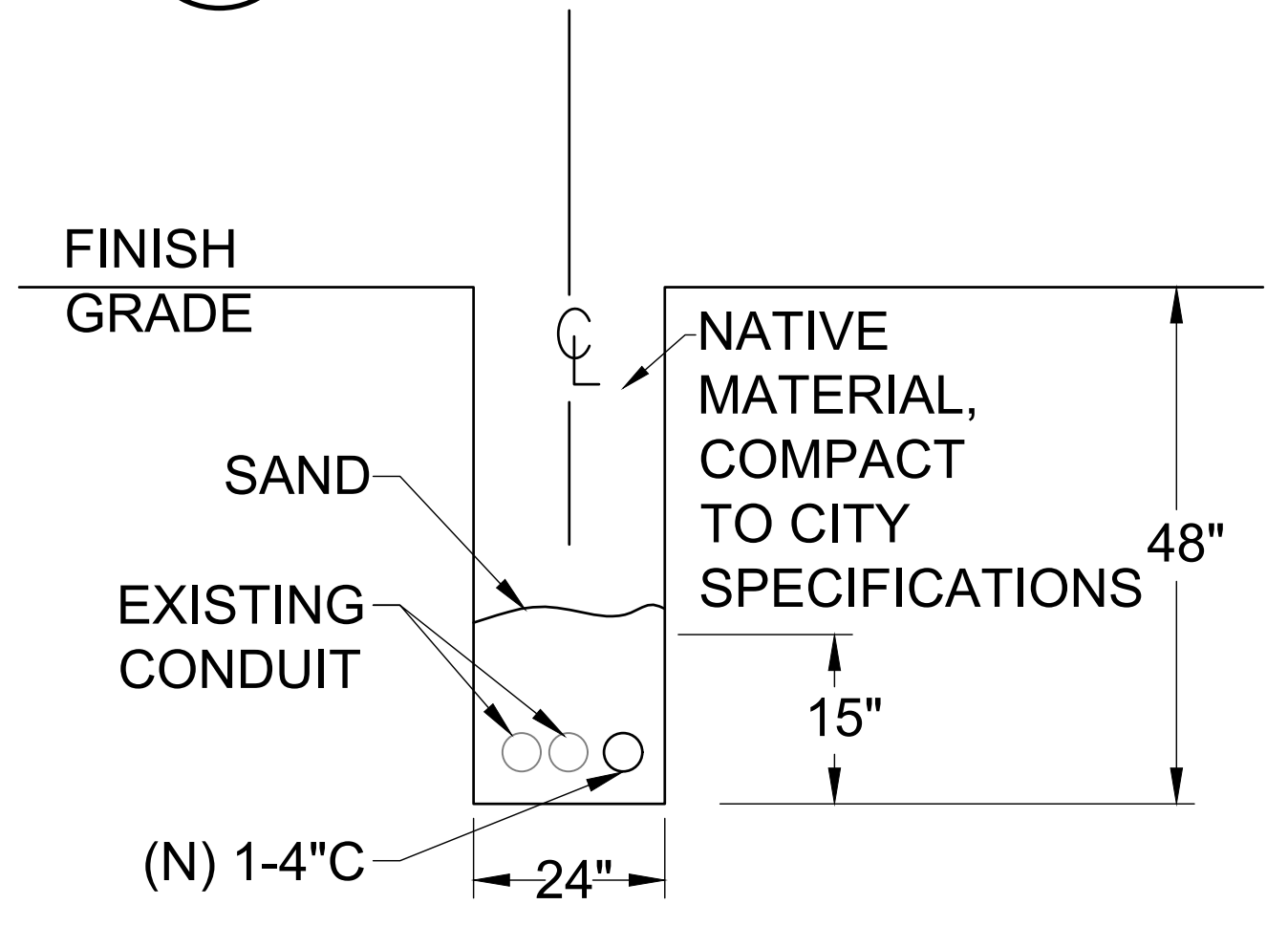
1 RSVL TRENCH DETAIL A-A
E3.05 NO SCALE



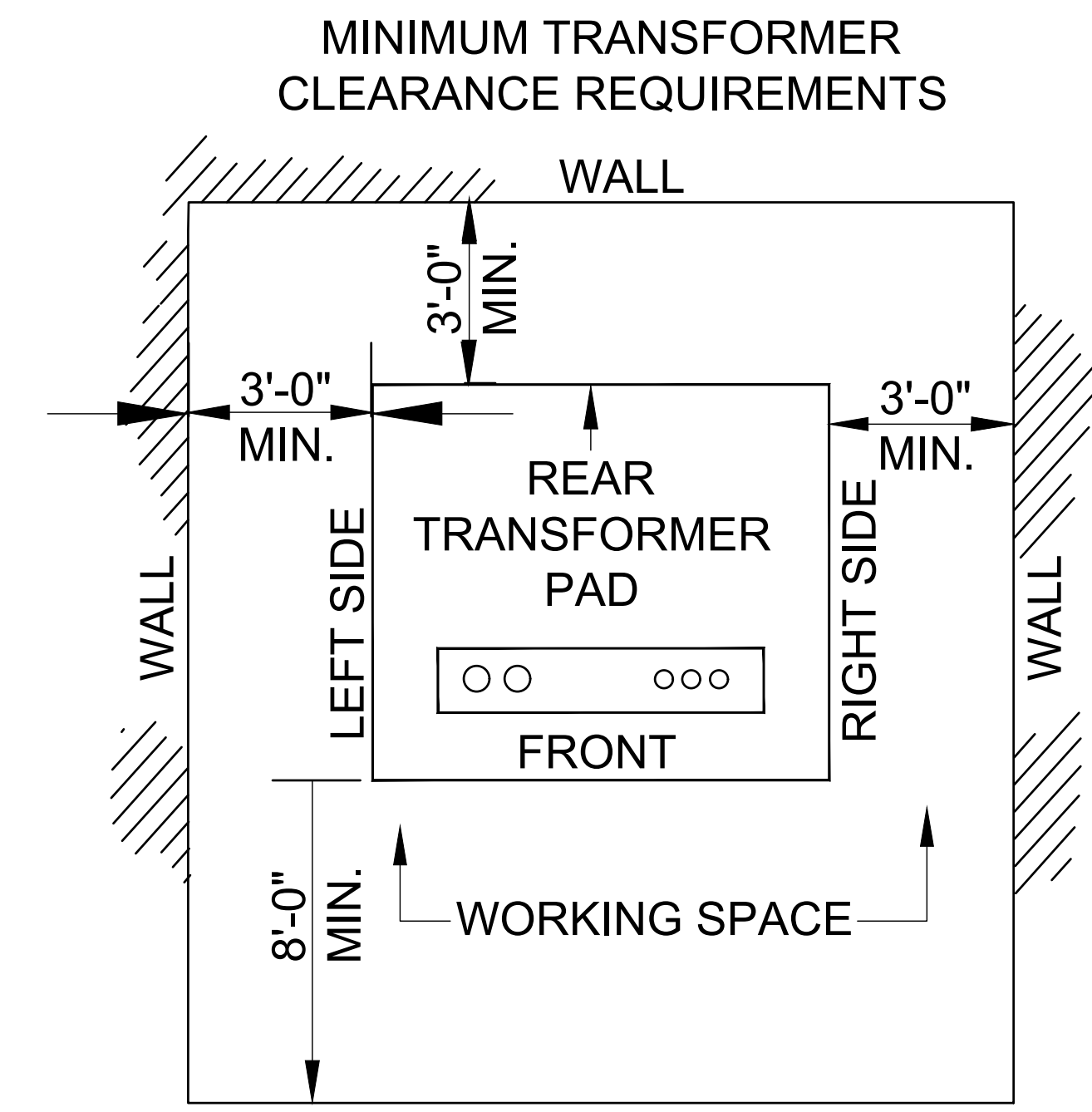
2 RSVL TRENCH DETAIL B-B
E3.05 NO SCALE



3 RSVL TRENCH DETAIL C-C
E3.05 NO SCALE



4 RSVL TRENCH DETAIL D-D
E3.05 NO SCALE



5 RSVL TRANSFORMER WORKING CLEARANCE DETAIL
E3.05 NO SCALE

DETAILS ARE REPRODUCED FROM ROSEVILLE ELECTRIC DRAWINGS. VERIFY ALL UTILITY REQUIREMENTS WITH ROSEVILLE ELECTRIC.

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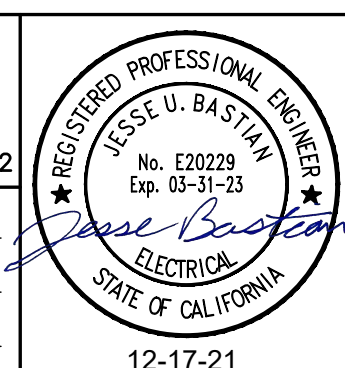
NO.	REVISIONS DESCRIPTION	DATE	BY

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CITY OF ROSEVILLE CALIFORNIA

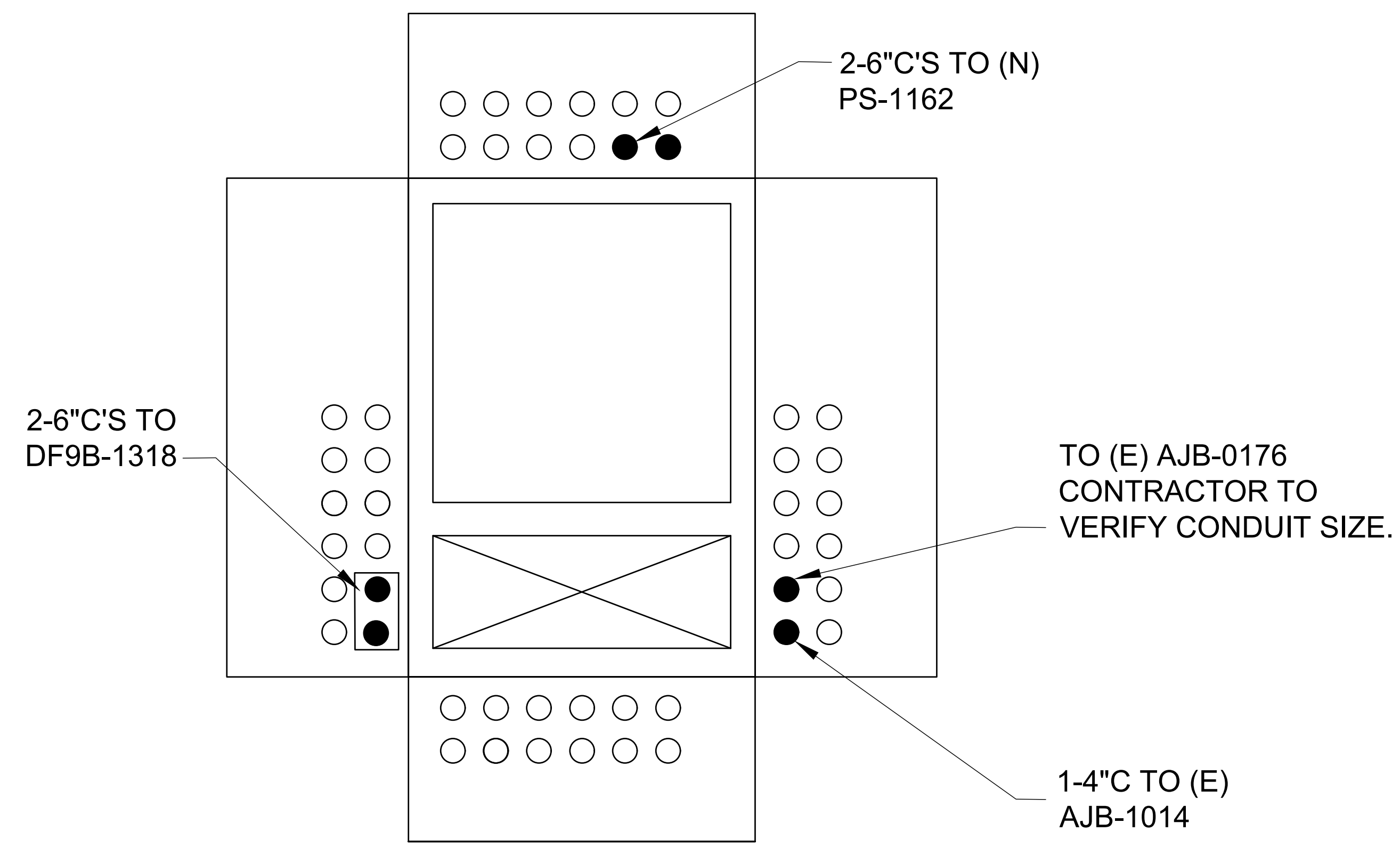
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 1075 Creekside Ridge Way, Suite 200 Roseville, CA 95678 (916) 788-8122
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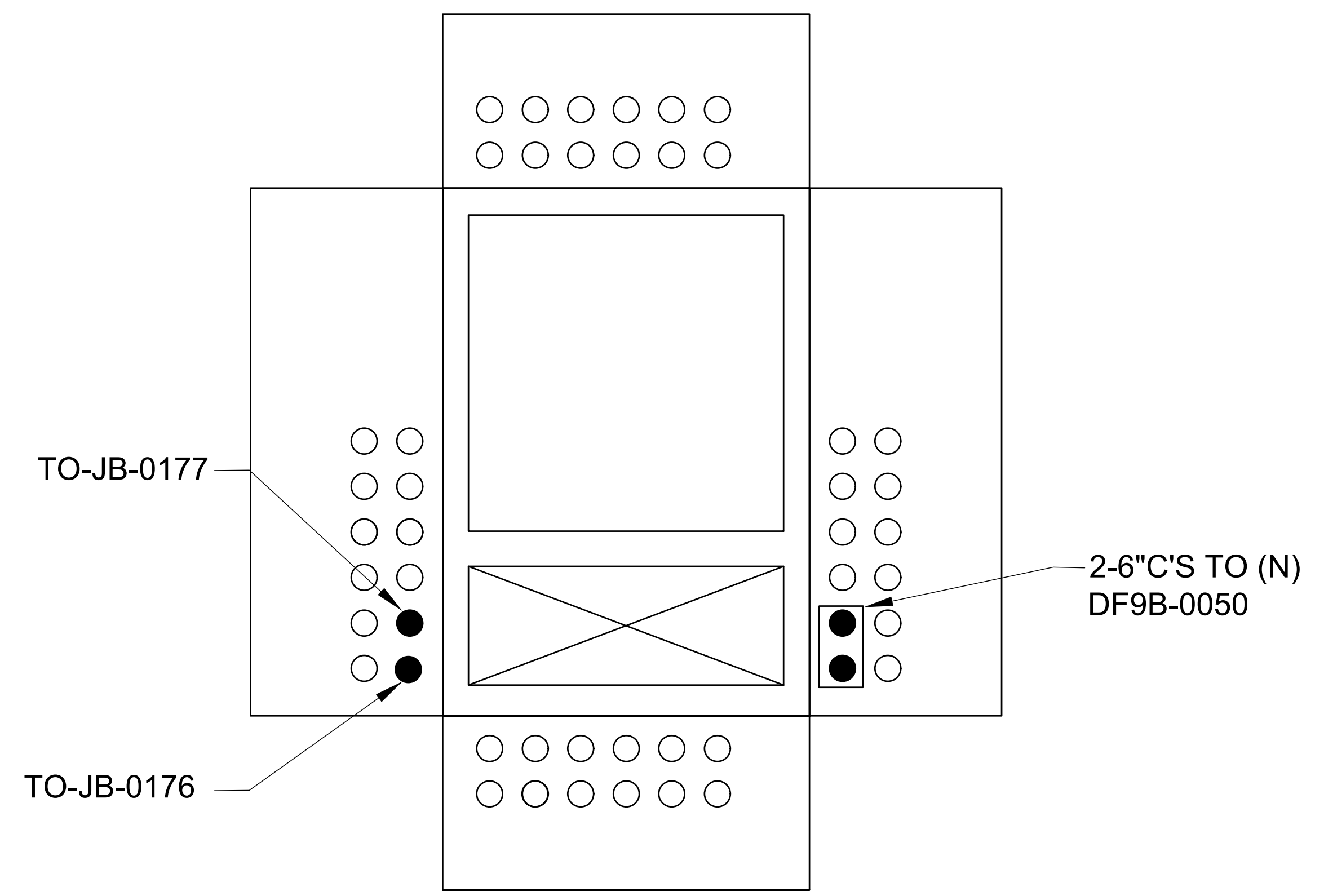
**CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT**
 ELECTRICAL DETAILS

SHEET
 E3.05
 OF
 47

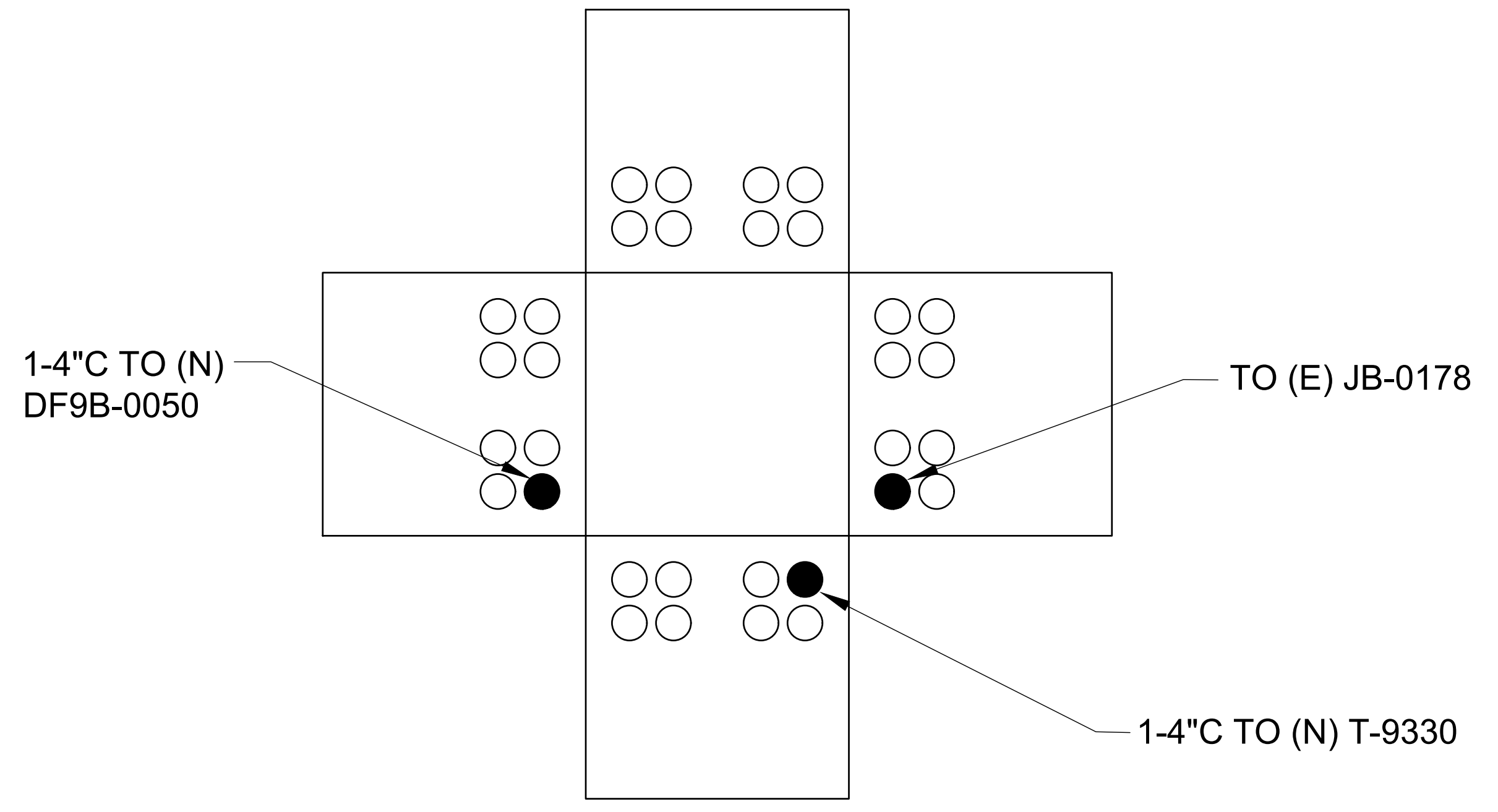
Xref: x21028.21.tbl; JUBstamp
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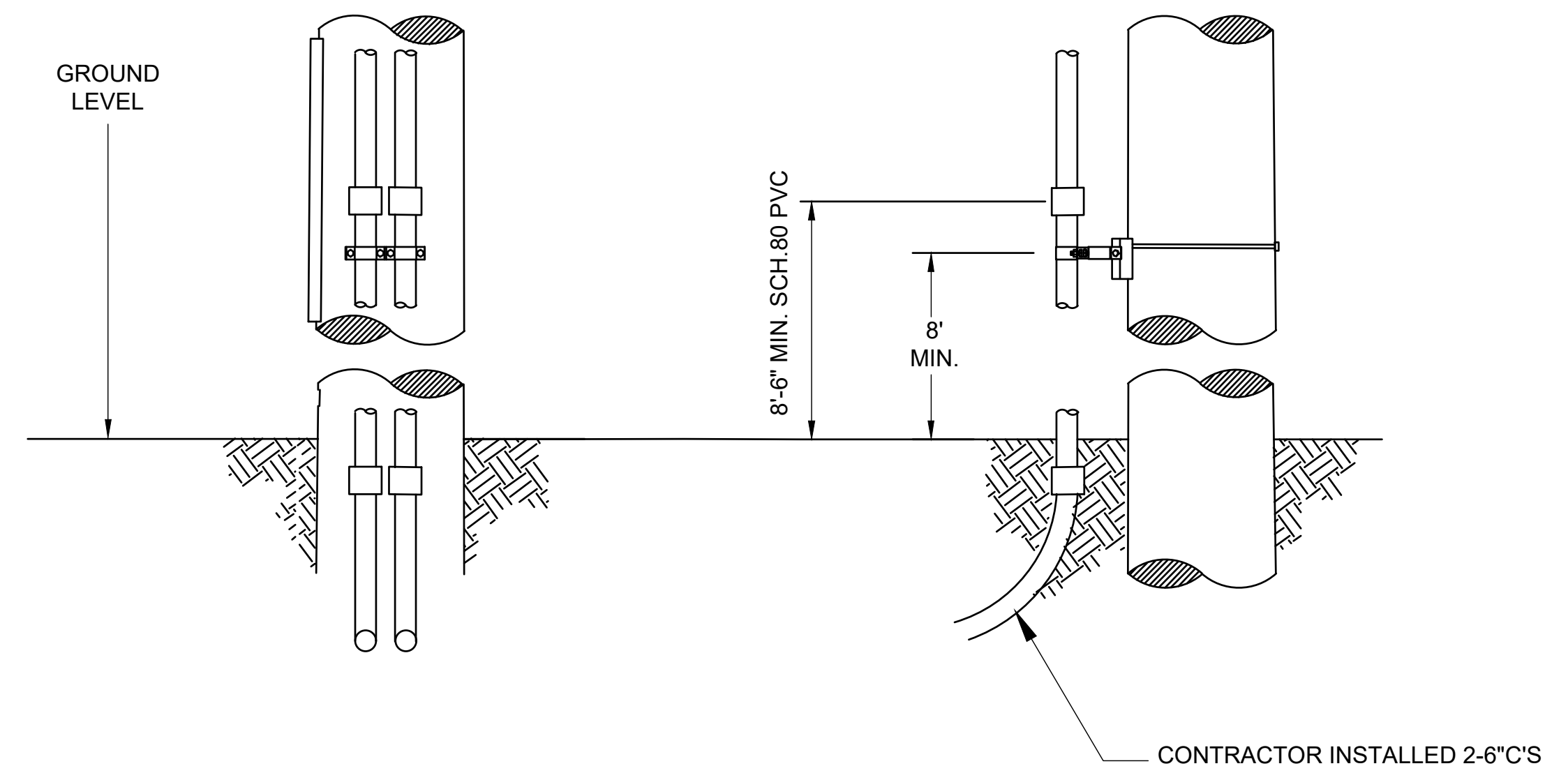
1 RSVL DETAIL PAD VAULT DF9B-0050
 E3.06 NO SCALE



2 RSVL DETAIL PAD VAULT DF9B-1318
 E3.06 NO SCALE



3 RSVL DETAIL 4'X4' ABOVE GROUND J-BOX AJB-1014
 E3.06 NO SCALE



4 RSVL RISER DETAIL
 E3.06 NO SCALE

DETAILS ARE REPRODUCED FROM R
 ELECTRIC DRAWINGS. VERIFY ALL U'
 REQUIREMENTS WITH ROSEVILLE EL

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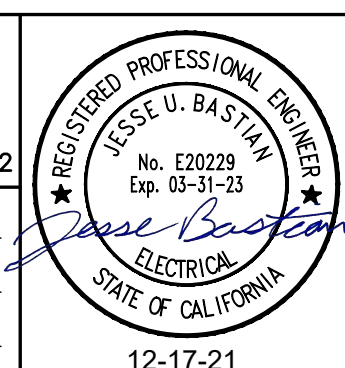
NO.	REVISIONS DESCRIPTION	DATE	BY

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FIELD BOOK CITY# 400164
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CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
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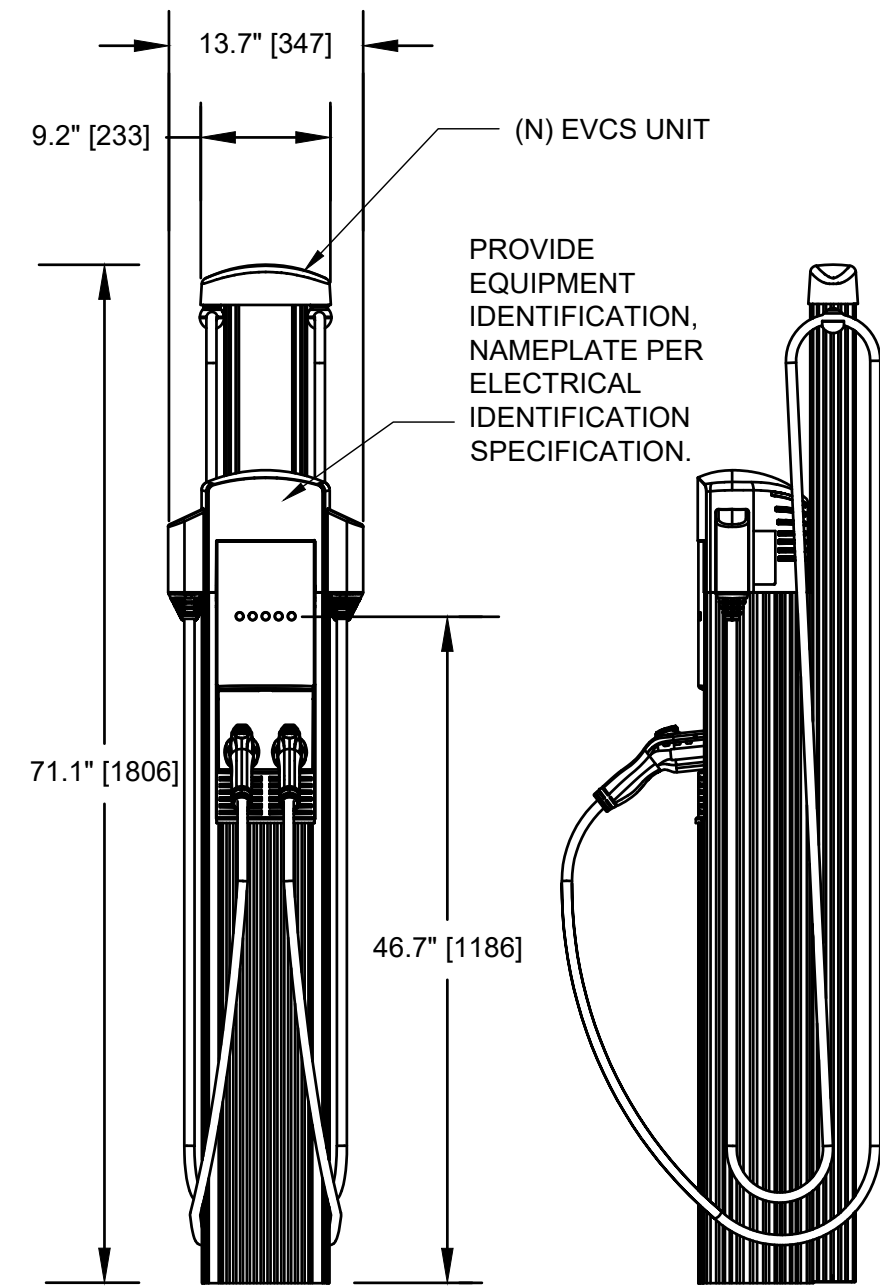
Xref's: x21028.21.tbl; JUBstamp
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GENERAL NOTES

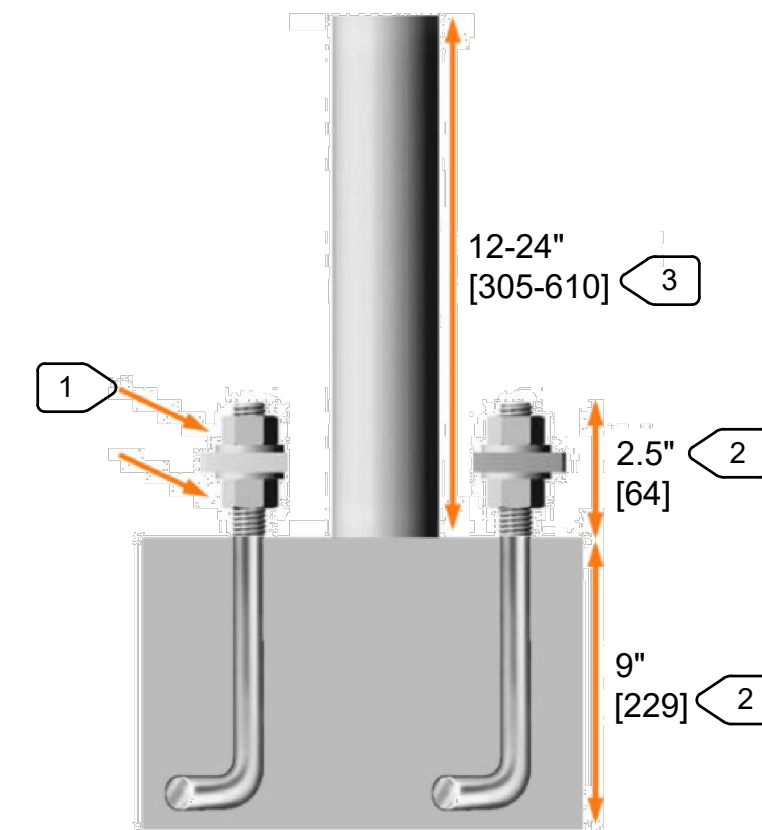
1. THE BASIS OF DESIGN FOR ELECTRIC VEHICLE CAR CHARGER CHARGEPOINT CT4021-GW1. ALL DETAILS SHOWN ON THIS SHEET ARE INSERTED FROM THE CT4000 INSTALLATION GUIDE AND MUST BE COORDINATED WITH EXISTING FIELD CONDITIONS.
2. DIMENSIONS ARE SHOWN IN MILLIMETERS AND [INCHES] IN BRACKETS.

NUMBERED NOTES

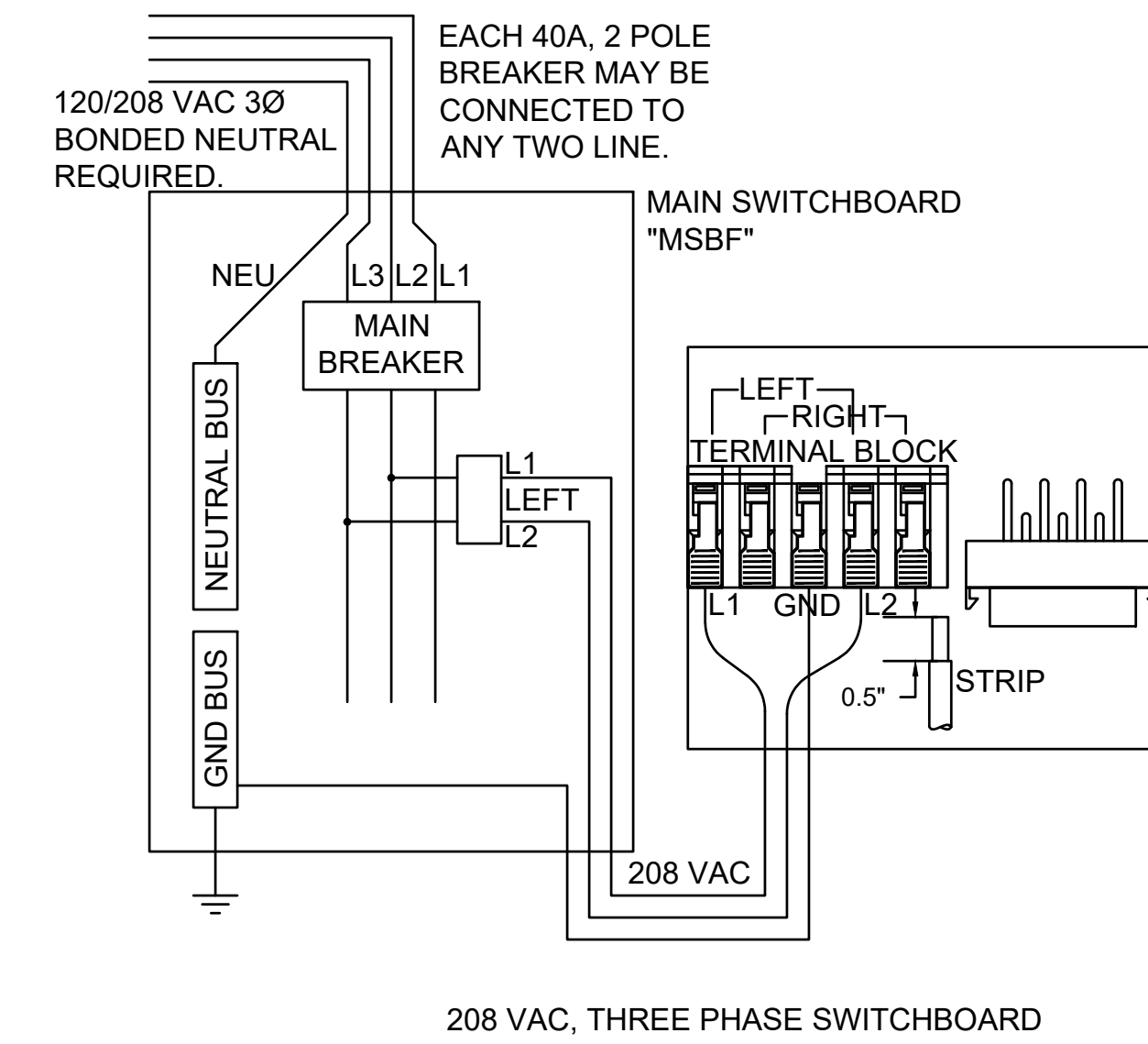
- 1 EACH ANCHOR BOLT MUST HAVE BOTTOM AND TOP NUT FOR LEVELING THE STATION.
- 2 ANCHOR BOLTS MUST EXTEND AT LEAST 2.5" [64mm] ABOVE THE CONCRETE AND 9" [229mm] BELOW THE CONCRETE.
- 3 THE CONDUIT MUST EXTEND 12-24" [305-610mm] ABOVE THE CONCRETE.



1 TYPICAL "EVCS" CHARGER ELEVATION
E3.07 NO SCALE



2 TYPICAL MOUNTING PAD ANCHORAGE
E3.07 NO SCALE



3 "EVCS" WIRING DIAGRAM
E3.07 NO SCALE

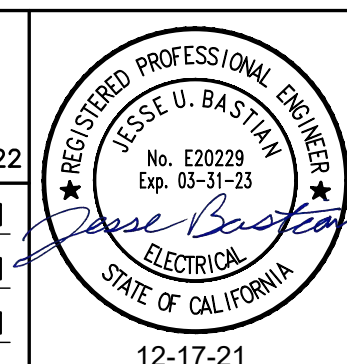
NO.	REVISIONS DESCRIPTION	DATE	BY

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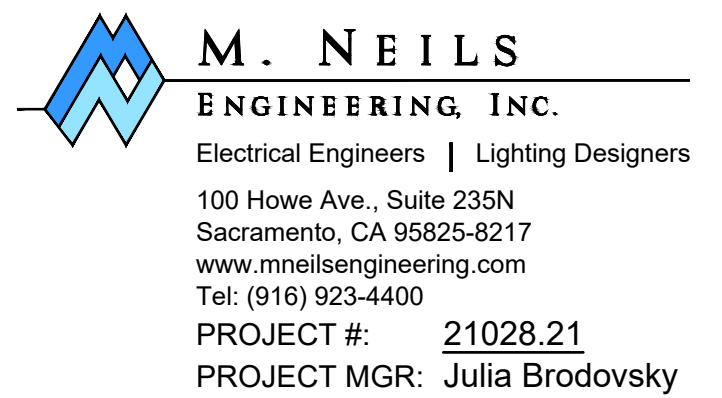
FIELD BOOK
 CITY# 400164
 SCALE
 HORIZ. _____
 VERT. _____



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**CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT**
 ELECTRICAL DETAILS



UNAUTHORIZED CHANGES & USES: M. Neils Engineering, Inc. preparing these plans will not be responsible for, or liable for unauthorized changes to or uses to these plans. All changes to these plans must be in writing and must be approved by M. Neils Engineering, Inc.

STATE OF CALIFORNIA
Outdoor Lighting
 NRCC-LTO-E (Created 11/19) CALIFORNIA ENERGY COMMISSION NRCC-LTO-E

CERTIFICATE OF COMPLIANCE
 This document is used to demonstrate compliance with requirements in §110.9, §130.0, §130.2, §140.7, and §141.0(b)(2) for outdoor lighting scopes using the prescriptive path.
 Project Name: ZERO EMISSION BUS DEPOT PROJECT Report Page: Page 1 of 6
 Project Address: Roseville, CA 95747 Date Prepared: 12/16/2021

A. GENERAL INFORMATION

01 Project Location (city) Roseville 04 Total Illuminated Hardscape Area (ft²) 72,336
 02 Climate Zone 11
 03 Outdoor Lighting Zone per Title 24, Part 1 §10-114 or as designated by Authority Having Jurisdiction (AHJ):
 LZ-0: Very Low - Undeveloped Parkland LZ-2: Moderate - Rural Areas LZ-4: High - Must be reviewed by CA Energy Commission for Approval
 LZ-1: Low - Developed Parkland LZ-3: Moderately High - Urban Areas

B. PROJECT SCOPE

Table Instructions: Include any outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)(2) for alterations.
 My project consists of:
 New Lighting System Must Comply with Allowances from §140.7.
 Altered Lighting System Is your alteration increasing the connected lighting load (Watts)? Yes No
 FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100

C. COMPLIANCE RESULTS

Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

Calculation of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)(2)						Compliance Results		
01	02	03	04	05	06	07	08	09
General Hardscape Allowance §140.7(d)(1) (See Table I)	Per Application §140.7(d)(2) (See Table J)	Sales Frontage §140.7(d)(2) (See Table K)	Ornamental §140.7(d)(2) (See Table L)	Per Specific Area §140.7(d)(2) (See Table M)	Existing Power §141.0(b)(2) (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 Must be ≥ 08
2,446.9	+	+	+	OR	=	2,446.9	≥	1,944
Cutoff Compliance (See Table G for Details)						COMPLIES		
Controls Compliance (See Table H for Details)						COMPLIES		

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE
 Project Name: ZERO EMISSION BUS DEPOT PROJECT Report Page: Page 2 of 6
 Project Address: Roseville, CA 95747 Date Prepared: 12/16/2021

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
 No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

Table Instructions: For new or altered lighting systems demonstrating compliance with §140.7 (ie Table I has expanded for input), include all luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)(2) (ie Table N has expanded for input), include only new luminaires being installed and replacement luminaires being installed as part of the project scope (ie, do not include existing luminaires remaining or existing luminaires being moved).

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire ^{1,2}	How Wattage is determined	Total number luminaires ²	Luminaire Status ³	Excluded per §140.7(a)	Design Watts	Cutoff Req. ≥ 6,200 initial lumen output §130.2(b) ⁴	Field Inspector
S2	POLE SITE LIGHT <input type="checkbox"/> Linear	162	Mfr. Spec ¹	12	New	<input type="checkbox"/>	1,944	Yes	<input type="checkbox"/>
Total Designed Watts:							1,944		

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
 EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b).

* FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c).
¹ For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet for the luminaire should be indicated in column 05 instead of number of luminaires.
² Select "New" for new luminaires in a new outdoor lighting project or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
³ Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output ≥ 6,200 unless exempted by §130.2(b).

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

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Outdoor Lighting
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CERTIFICATE OF COMPLIANCE
 Project Name: ZERO EMISSION BUS DEPOT PROJECT Report Page: Page 3 of 6
 Project Address: Roseville, CA 95747 Date Prepared: 12/16/2021

G. CUTOFF REQUIREMENTS (BUG)

Table Instructions: Complete this table for fixtures of ≥ 6,200 initial luminaire lumens indicated on Table F as needing to comply with Cutoff Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

01	02	03	04	05	06	07	08	09	10	11	12	
Name or Item Tag	Complete Luminaire Description	Backlight Rating ²	Max Allowable Backlight Rating ³	Backlight Rating Per Design	Lighting Type	Uplight Rating ²	Max Allowable Backlight Rating ³	Uplight Rating Per Design	Glare Rating ²	Max Allowable Glare Rating ³	Glare Rating Per Design	Field Inspector
S2	POLE SITE LIG	> 2 MH from property line	No Limit	B2	Area Lighting		U0	U0	> 2 MH from property line	G3	G3	<input type="checkbox"/>

* FOOTNOTES: Mounting Height is labeled MH in this table.
² Authority having jurisdiction may ask for luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per §130.2(b).
³ BUG ratings with a lower number than the "Max Allowable" are compliant. Ex. If Max Allowable is Bug Rating is B4, then B0, B1, B2, B3 and B4 are all compliant.

H. OUTDOOR LIGHTING CONTROLS

Table Instructions: Complete this table demonstrating compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
 When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank. For each requirement in columns 02 through 04, do not leave the field blank, instead select NA or Exempt* from the dropdown list to indicate not applicable or an exemption.

01	02	03	04	05
Area Description	Shut-Off §130.2(c)(1)	Auto-Schedule §130.2(c)(2)	Motion Sensor §130.2(c)(3)	Field Inspector
Parking Lot	Photocontrol	Yes	Yes	<input type="checkbox"/>

* NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
 EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c).

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

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CERTIFICATE OF COMPLIANCE
 Project Name: ZERO EMISSION BUS DEPOT PROJECT Report Page: Page 4 of 6
 Project Address: Roseville, CA 95747 Date Prepared: 12/16/2021

01	02	03	04	05
Area Description	Shut-Off §130.2(c)(1)	Auto-Schedule §130.2(c)(2)	Motion Sensor §130.2(c)(3)	Field Inspector
				<input type="checkbox"/>

I. LIGHTING POWER ALLOWANCE (per §140.7)

Table Instructions: Please complete this table for areas using the allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (L2 & 3)						"Use it or lose it" Allowances (select all that apply)				
01	02	03	04	05	06	07	08	09	10	
Area Description	Surface Type	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (ft)	Allowed Density (W/ft)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)		
Parking Lot	Asphalt	72,336	0.025	1,808.4	1,154	0.25	288.5	2,096.9		
Initial Wattage Allowance for Entire Site (Watts):								350		
Total General Hardscape Allowance (Watts):								2,446.9		

J. LIGHTING ALLOWANCE: PER APPLICATION
 This Section Does Not Apply

K. LIGHTING ALLOWANCE: SALES FRONTAGE
 This Section Does Not Apply

L. LIGHTING ALLOWANCE: ORNAMENTAL
 This Section Does Not Apply

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

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CERTIFICATE OF COMPLIANCE
 Project Name: ZERO EMISSION BUS DEPOT PROJECT Report Page: Page 5 of 6
 Project Address: Roseville, CA 95747 Date Prepared: 12/16/2021

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This Section Does Not Apply

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This Section Does Not Apply

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCL/

YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCL-LTO-01-E - Must be submitted for all buildings.	<input type="checkbox"/>
<input checked="" type="radio"/>	<input type="radio"/>	NRCL-LTO-02-E - Must be submitted for a lighting control system; or for an Energy Management Control System (EMCS), to be recognized for compliance.	<input type="checkbox"/>

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E, Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: <http://www.energy.ca.gov/title24/attcp/providers.html>

YES	NO	Form/Title	Field Inspector
<input checked="" type="radio"/>	<input type="radio"/>	NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls area added to ≤ 20 luminaires.	<input type="checkbox"/>

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

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CERTIFICATE OF COMPLIANCE
 Project Name: ZERO EMISSION BUS DEPOT PROJECT Report Page: Page 6 of 6
 Project Address: Roseville, CA 95747 Date Prepared: 12/16/2021

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete

Documentation Author Name: Jesse U. Bastian Documentation Author Signature: *Jesse Bastian*
 Company: M. Neils Engineering, Inc. Signature Date: 12/16/2021
 Address: 100 Howe Ave, Suite 235N CEA/ HERS Certification Identification (if applicable):
 City/State/Zip: Sacramento, CA 95825 Phone: (916) 923-4400

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

- The information provided on this Certificate of Compliance is true and correct.
- I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
- The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
- The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
- I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Jesse U. Bastian Responsible Designer Signature: *Jesse Bastian*
 Company: M. Neils Engineering, Inc. Date Signed: 12/16/2021
 Address: 100 Howe Ave, Suite 235N License: E20229
 City/State/Zip: Sacramento, CA 95825 Phone: (916) 923-4400

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards> November 2019

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. SEE NOTES

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FIELD BOOK CITY# 400164

SCALE
 HORIZ. _____
 VERT. _____

PSOMAS

1075 Creekside Ridge Way, Suite 200 Roseville, CA 95678 (916) 788-8122

DESIGNED BY: JULIA BRODOVSKY DATE: 12/2021
 CHECKED BY: JESSE BASTIAN DATE: 12/2021
 DRAWN BY: WILLIE PUJANES/ BRANDON STEINLEIN DATE: 12/2021

CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT
 TITLE 24 - OUTDOOR LIGHTING COMPLIANCE FORMS

SHEET E4.01 OF 47

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 Tel: (916) 923-4400
 PROJECT #: 21028.21
 PROJECT MGR: Julia Brodovskiy

SITE NOTES:

- CRACKING SHIFTING OR DAMAGED CONCRETE SHALL BE REPLACED AT CONTRACTORS EXPENSE PRIOR TO ACCEPTANCE OF WORK.
- CONTRACTOR SHALL PROVIDE ALL GUARANTEES IN WRITING AND WORDED AS APPROVED BY OWNERS REPRESENTATIVE AND LANDSCAPE ARCHITECT PRIOR TO COMMENCING WORK.
- PROJECT MANAGER SHALL INSTRUCT CONTRACTOR WITH RESPECT TO THE QUANTITY TYPE AND FREQUENCY OF SITE INSPECTIONS TO BE MADE ON WORKMANSHIP, PERFORMANCE AND QUALITY OF WORK, PRODUCTS AND MATERIALS PRIOR, DURING AND AFTER TO PLACEMENT. OWNER SHALL PAY THE COST OF INITIAL INSPECTIONS. IF ANY INSPECTION IDENTIFIES FAILURES OR DEFICIENCIES TO MEET SPECIFICATIONS. RE-INSPECTIONS OR SUPPLEMENTAL TESTS OR REJECTIONS SHALL BE REQUIRED. SUCH INSPECTIONS, INCLUDING RE-TESTING OF REJECTED MATERIALS OR REPLACEMENT OF PRODUCTS MATERIALS OR WORKMANSHIP FOR INSTALLED WORK SHALL BE DONE AT CONTRACTORS EXPENSE.

GENERAL NOTES:

- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL PLANT & MATERIAL QUANTITIES. THE SCHEDULE IS INTENDED AS A REFERENCE ONLY. SEE ENLARGED PLANTING PLANS FOR SHRUB AND PLANT LOCATIONS. QUANTITIES IN SCHEDULE ARE ESTIMATES ONLY.
- OWNER AND/OR LANDSCAPE ARCHITECT IS TO APPROVE ALL LANDSCAPE MATERIALS PRIOR TO INSTALLATION WITH PRIOR NOTICE OF 48 HOURS. OWNER AND OR LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT LANDSCAPE MATERIALS INCLUDING PLANTS THROUGHOUT THE CONSTRUCTION PERIOD.
- PROVIDE MATCHING SIZES AND FORMS OF LIKE SHRUB SPECIES AS SHOWN ON DRAWINGS.
- APPLY TOPSOIL IN ALL PLANTING AREAS. A SOIL TEST SHALL BE DONE TO VERIFY QUALITY. CONTRACTOR TO AMEND TOP SOIL AS NECESSARY FROM SOIL REPORT TO COMPLY WITH ACCEPTABLE SOIL STANDARDS AND SPECIFICATIONS. SEE SPECIFICATIONS FOR DEPTH OF TOP SOIL.
- THE LANDSCAPE & IRRIGATION CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THEY OBTAIN ANY & ALL DRAWINGS, SPECIFICATIONS, CHANGE ORDERS & AS-BUILDS APPLICABLE TO CONTRACTORS SCOPE OF WORK PRIOR TO & DURING CONSTRUCTION ON SITE. CONFLICTING OR VAGUE INFORMATION SHALL BE NOTED AND SUBMITTED TO OWNER AND LANDSCAPE ARCHITECT FOR CLARIFICATION.
- CONTRACTOR IS RESPONSIBLE TO REPLACE ALL DAMAGED NEW & EXISTING LANDSCAPE, INCLUDING BUT NOT LIMITED TO ALL PLANTS, TOPSOIL, WEED BARRIER, CURBING, WALKS, ETC.
- CONTRACTOR SHALL TIE ALL PROPOSED LANDSCAPE MATERIALS WITH EXISTING INCLUDING BUT NOT LIMITED TO ALL PLANTS, TOPSOIL, WEED BARRIER, CURBING, WALKS, ETC.
- CONTRACTOR TO REVIEW COMPLETE CONSTRUCTION DOCUMENTS FOR THE ENTIRE PROJECT INCLUDING, BUT NOT LIMITED TO, PROGRAM SPECIFICATIONS, GEOTECHNICAL REPORTS, CIVIL PLAN SET, ARCHITECTURAL PLAN SET (INCLUDING STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PLANS), AND ANY OTHER SHOP DRAWINGS OR SUBMITTALS PERTINENT TO, OR THAT IMPACTS, THE CONTRACTORS SCOPE OF WORK. DISCREPANCIES SHALL BE BROUGHT IMMEDIATELY TO THE GENERAL CONTRACTOR TO GENERATE A REQUEST FOR CLARIFICATION/INFORMATION TO BE DISTRIBUTED TO THE ENGINEER/ARCHITECT OF RECORD.
- CONTRACTOR SHALL CAREFULLY STUDY AND INSPECT CIVIL AND ARCHITECTURAL PLANS AS-BUILTS DRAWING AND VISUALLY INSPECT. MAKE ON-SITE ADJUSTMENTS TO LANDSCAPE BASED OF FINAL DIMENSIONS AND LAYOUTS OF SITE AND BUILDINGS. PROVIDE A UNIT PRICE CREDIT FOR ANY PLANTS, AREA, OR PORTIONS OF THE LANDSCAPE OMITTED.
- ANY PORTIONS OF THE LANDSCAPE NOT SHOWN OR CLEARLY IDENTIFIED BY THE LANDSCAPE CONSTRUCTION DOCUMENTS SHALL BE IDENTIFIED, AND A REQUEST FOR INFORMATION AND OR CHANGE ORDER SHALL BE SUBMITTED TO OWNERS REPRESENTATIVE TO ADDRESS.

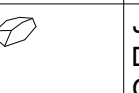
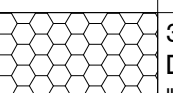
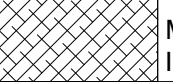
PLAN SET NOTES:

- SHEET L001 PLANT SCHEDULE, LEGEND GENERAL AND SITE NOTES. ALL PLANS IN THIS SET SHALL REFER TO THIS SHEET FOR SUCH INFORMATION.
- SHEET L100 GROUNDCOVER PLAN
- SHEET L101 PLANTING PLAN
- SHEET L501 LANDSCAPE DETAILS
- SEE CIVIL PLAN SET AND CONSTRUCTION DOCUMENTS FOR FURTHER SITE DESIGN, LAYOUT, GRADING AND UTILITY LOCATIONS.
- SEE ARCHITECTURAL PLAN SET AND CONSTRUCTION DOCUMENTS FOR EXACT DIMENSIONS, SIZE, BUILDING LAYOUTS, ELEVATIONS AND ARCHITECTURAL DETAILS AND STRUCTURAL ELEMENTS AND EXACT BUILDING FOOTPRINTS.
- SEE PROJECT MANUAL FOR ADDITIONAL SPECIFICATIONS FOR CONTRACTORS SCOPE OF WORK. IT IS ALSO CONTRACTORS RESPONSIBILITY THAT ALL APPLICABLE CHANGE ORDERS ADDENDUMS DIRECTIVES REVISIONS ETC ARE OBTAINED AND ADHERED TO.
- NO IMPROVEMENTS OVER 3 FT HIGH, AS MEASURED FROM TOP BACK OF CURB ARE ALLOWED WITHIN SIGHT TRIANGLE AS SHOWN ON PLAN
- 2: 1 MAXIMUM SLOPE IN LANDSCAPED AREAS SHALL BE ADHERED TO.

GENERAL CONSTRUCTION NOTES:

- CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS BEFORE CONSTRUCTION.
- CONTRACTOR SHALL ADHERE TO ALL LOCAL, STATE, AND/OR FEDERAL LAWS PERTAINING TO THE PROJECT'S WORK.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ALL CONSTRUCTION ELEMENTS WITH OTHER TRADES PRIOR TO INSTALLATION AND BECOME FAMILIAR WITH THE LOCATION OF UNDERGROUND SERVICES AND IMPROVEMENTS.
- THE CONTRACTOR SHALL EXAMINE THE SITE AND FULLY DETERMINE THE CONDITIONS UNDER THIS CONTRACT. NO ALLOWANCE WILL BE MADE FOR FAILURE OF BIDDERS TO ASCERTAIN ALL ASPECTS OF THE PROJECT.
- PRIOR TO DIGGING, EXCAVATION, OR UNDERGROUND WORK, CONTRACTOR SHALL LOCATE AND PROTECT EXISTING UTILITIES AND SUBSURFACE SYSTEMS. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REPAIR AND EXPENSES INCURRED TO UTILITIES THAT BECOME DAMAGED AS A RESULT OF HIS WORK.
- CONTRACTOR SHALL INSPECT WITH OWNER'S REPRESENTATIVE ALL PAVEMENT, SIDEWALK AND CURB DEFECTS PRIOR TO BEGINNING WORK. ALL HARDSCAPE SHALL BE RE-INSPECTED DURING FINAL INSPECTION. ANY DAMAGED AREAS SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE QUANTITIES AND MATERIALS REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE PLANS. CONTRACTOR SHALL PROVIDE OWNER/LANDSCAPE ARCHITECT ACTUAL AMOUNTS REQUIRED FOR FINISHED INSTALLATION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING GRADES AS ESTABLISHED BY THE PROJECT ENGINEER. RUNOFF AND DRAINAGE FLOWS SHALL NOT BE ALTERED OR IMPEDED.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, EQUIPMENT, MATERIALS, EMPLOYEE AND SUBCONTRACTOR SUPERVISION FOR IT'S PORTION OF THE PROJECT TO IMPLEMENT PLANS AND SPECIFICATIONS.
- THE CONTRACTOR ASSUMES ALL RISKS IN THE PERFORMANCE OF THE WORK AND RESPONSIBILITY FOR LOSS AND EXPENSE RESULTING FROM ON-SITE INJURY.
- THE CONTRACTOR IS RESPONSIBLE FOR SUPERVISION, SAFETY, ADMINISTRATION, SCHEDULING, COORDINATION AND MANAGEMENT OF SUBCONTRACTORS.
- THE CONTRACTOR SHALL PROTECT ALL PERSONS NEAR OR ON THE PREMISES FROM UNREASONABLE RISK OF INJURY. PROVIDE WARNING SIGNS, LIGHTS, BARRICADES, RAILINGS, FLAGMEN OR OTHER NECESSARY SAFEGUARD.
- OWNER / LANDSCAPE ARCHITECT INSPECTIONS SHALL NOT BE DEEMED SUPERVISION OF CONTROL OF CONSTRUCTION BY CONTRACTOR OR SUBCONTRACTORS.
- ALL CONTRACTS SHALL BE WRITTEN DIRECTLY BETWEEN CONTRACTOR AND OWNER. SPECIFIC TERMS OF WORK SHALL BE NEGOTIATED DIRECTLY BETWEEN PARTIES.
- OWNER / LANDSCAPE ARCHITECT SHALL REVIEW SHOP DRAWINGS, PRODUCT DATA AND SAMPLES SUBMITTED BY THE CONTRACTOR FOR THE SOLE PURPOSE OF COMPLIANCE WITH THE DESIGN CONCEPT AND WITH INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. OWNER AND LANDSCAPE ARCHITECT ASSUMES NO LIABILITY FOR CHANGES THAT HAVE NOT BEEN REVIEWED AND AUTHORIZED IN WRITING.
- WHERE TWO OR MORE REQUIREMENTS CREATE OVERLAPPING CONDITIONS, CONFLICTING MINIMUMS OR LEVELS OF QUALITY, ALL OR THE MORE STRINGENT REQUIREMENTS OR THE HIGHER QUALITY LEVEL IS INTENDED, AND SHALL BE ENFORCED. CONFLICTING REQUIREMENTS SHALL BE REFERRED TO THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE WHOSE INTERPRETATION WILL BE FINAL.
- WALKS AND PLANTERS SHOWN ON LANDSCAPE PLANS ARE FOR LAYOUT REFERENCE ONLY. REFER TO CIVIL PLANS FOR HORIZONTAL AND VERTICAL CONTROL
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE MOST CURRENT PLANS & SPECIFICATIONS ARE USED & CONVEYED TO ALL SUB- CONTRACTORS AS APPLICABLE.

PLANT SCHEDULE ZEBD BUS DEPOT						
DECIDUOUS TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY	
	ACE AU2	Acer freemanii 'Autumn Blaze' / Autumn Blaze Maple	2' Cal.	24" Box	2	
	ACE JCS	Acer truncatum x platanoides 'JFS-KW202' TM / Crimson Sunset Maple	2' Cal.	24" Box	5	
	ULM EM2	Ulmus propinqua 'JFS-Bieberich' TM / Emerald Sunshine Elm	2' Cal.	24" Box	2	
FLOWERING TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY	
	PIS RED	Pistacia x 'Red Push' / Red Push Pistache	2' Cal.	24" Box	3	
GRASSES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY	
	CAR RRS	Carex buchananii 'Red Rooster' / Red Rooster Leather Leaf Sedge	1 gal.		85	
	TRI DAC	Tripsacum dactyloides nana / Dwarf Fakahatchee Grass	1 gal.		39	
PERENNIALS	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY	
	LAN RE5	Lantana camara 'Balluced' TM / Little Lucky Red Lantana	1 gal.		63	
	PEN TPA	Penstemon strictus 'Bandera' / Bandera Rocky Mountain Penstemon	1 gal		35	
ANNUALS/PERENNIALS	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY	
	GAU WHI	Gaura lindheimeri 'Whirling Butterflies' / Whirling Butterflies Gaura	1 gal		69	
	RUD GO2	Rudbeckia fulgida sullivantii 'Goldstrum' / Black-eyed Susan	1 gal		58	
GROUND COVERS	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	SPACING	QTY
	HER SE2	Herniaria glabra 'Sea Foam' / Rupturewort	4"	Pot	12" o.c.	325

REFERENCE NOTES SCHEDULE		
SYMBOL	DESCRIPTION	QTY
	ROCK	
	JASPER BOULDER 2' - 4' DIAMETER; 1/3 @ 4' DIAMETER, 1/3 @ 3' DIAMETER AND 1/3 @ 2' DIAMETER. BOULDERS SOURCED FROM CASCADE ROCK INC.	11
	ROCK	
SYMBOL	DESCRIPTION	QTY
	3'- 6" "NOYO COBBLE STONE" COBBLE ROCK MULCH 5" MIN. DEPTH OVER WEED BARRIER FABRIC. SUGGESTED SUPPLIER "CASCADE ROCK INC."	2,578 sf
	"WALK-ON" FIR BARK WOOD MULCH - FINELY SHREDDED WOOD MULCH AT 3" DEPTH. SUGGESTED SUPPLIER "CASCADE ROCK INC."	2,102 sf

LANDSCAPE CONTRACTOR ACKNOWLEDGMENT:
I HAVE REVIEWED THE FULL PLAN SET AND READ THE NOTES AND SPECIFICATIONS, INCLUDING THE GENERAL NOTES ON THE MASTER DRAWING SET.

BY: _____ DATE: _____
COMPANY: _____ TITLE: _____

Xrefs: ZEBD-C-MODEL\ZEBD-C-SITE\ZEBD-X-UTIL\ZEBD-C-UTIL\ZEBD-C-BORDER
Images: cropped COR_black_logo.tif|cropped COR_black_logo.tif

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. SEE NOTES

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FIELD BOOK CITY# 400164

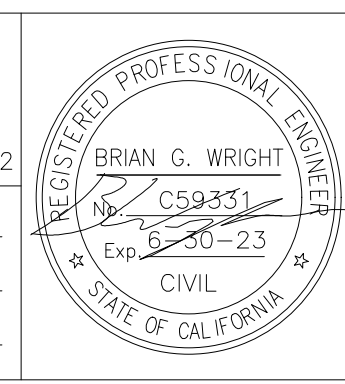
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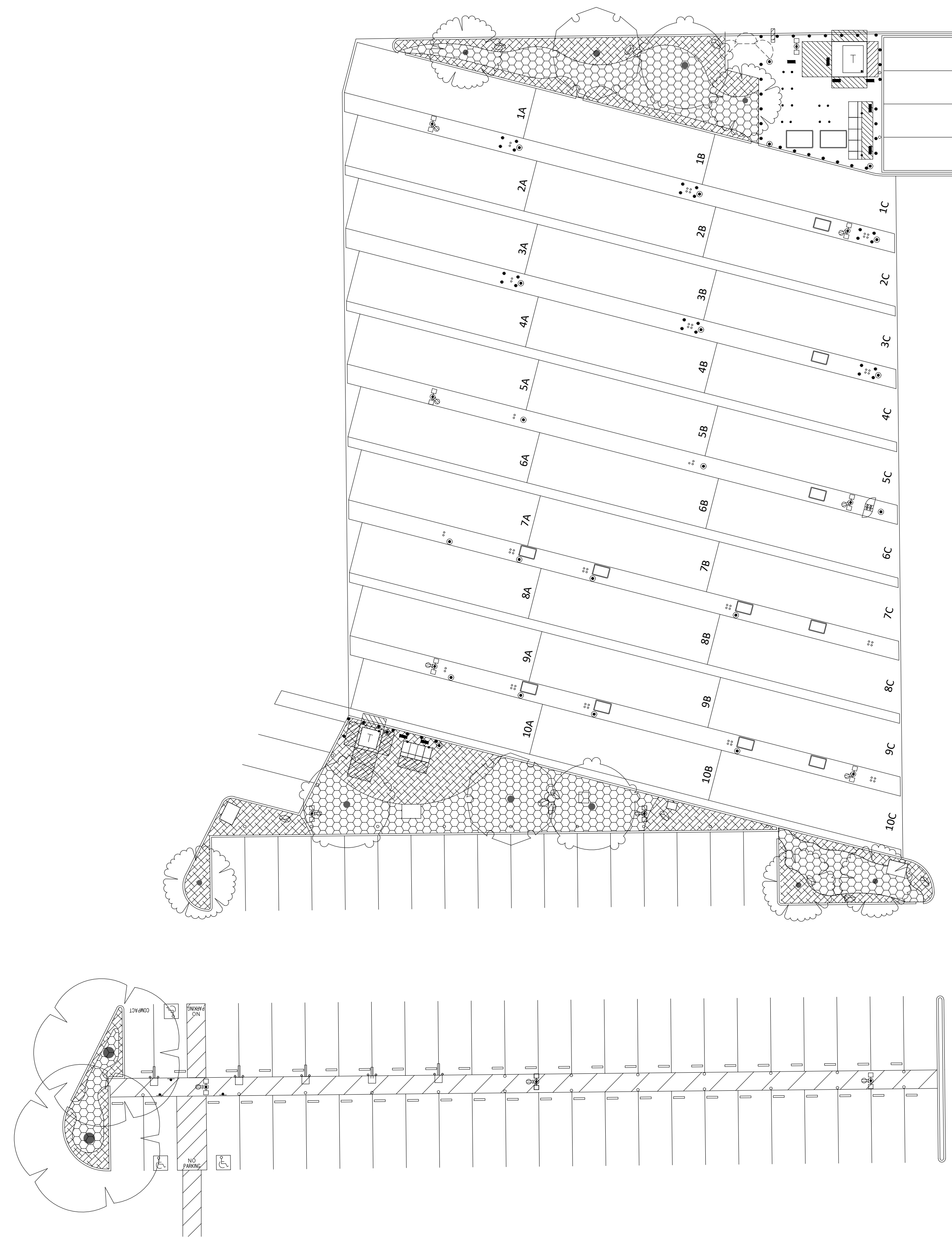
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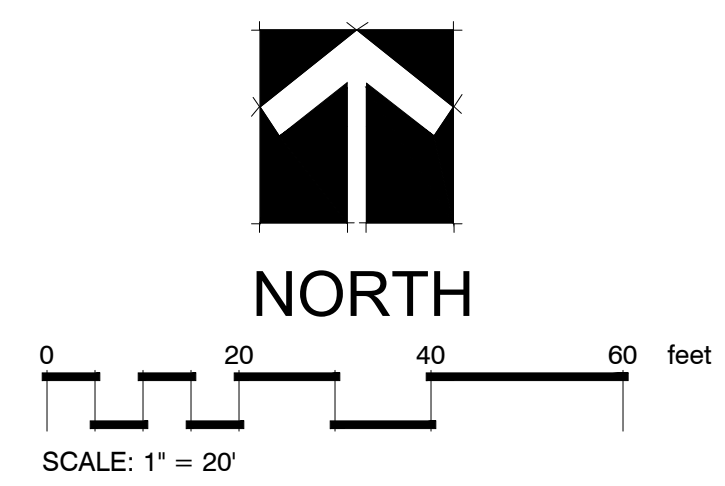
DESIGNED BY: MEGAN BUCHE DATE: 9/2021
CHECKED BY: BRIAN WRIGHT DATE: 9/2021
DRAWN BY: CHARUNI KURUMBALAPITIYA DATE: 9/2021



**CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
LANDSCAPE NOTES AND SCHEDULES**



REFERENCE NOTES SCHEDULE	
ROCK	
SYMBOL	DESCRIPTION
	JASPER BOULDER 2' - 4' DIAMETER; 1/3 @ 4' DIAMETER, 1/3 @ 3' DIAMETER AND 1/3 @ 2' DIAMETER. BOULDERS SOURCED FROM CASCADE ROCK INC.
ROCK	
SYMBOL	DESCRIPTION
	3'- 6" NOVO COBBLE STONE COBBLE ROCK MULCH 5' MIN. DEPTH OVER WEED BARRIER FABRIC. SUGGESTED SUPPLIER "CASCADE ROCK INC."
	"WALK-ON" FIR BARK WOOD MULCH - FINELY SHREDDED WOOD MULCH AT 3" DEPTH. SUGGESTED SUPPLIER "CASCADE ROCK INC."



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 Images: cropped COR_block_logo.tif|cropped COR_block_logo.tif

REVISIONS			
NO.	DESCRIPTION	DATE	BY

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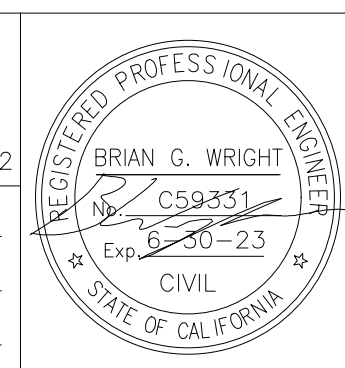
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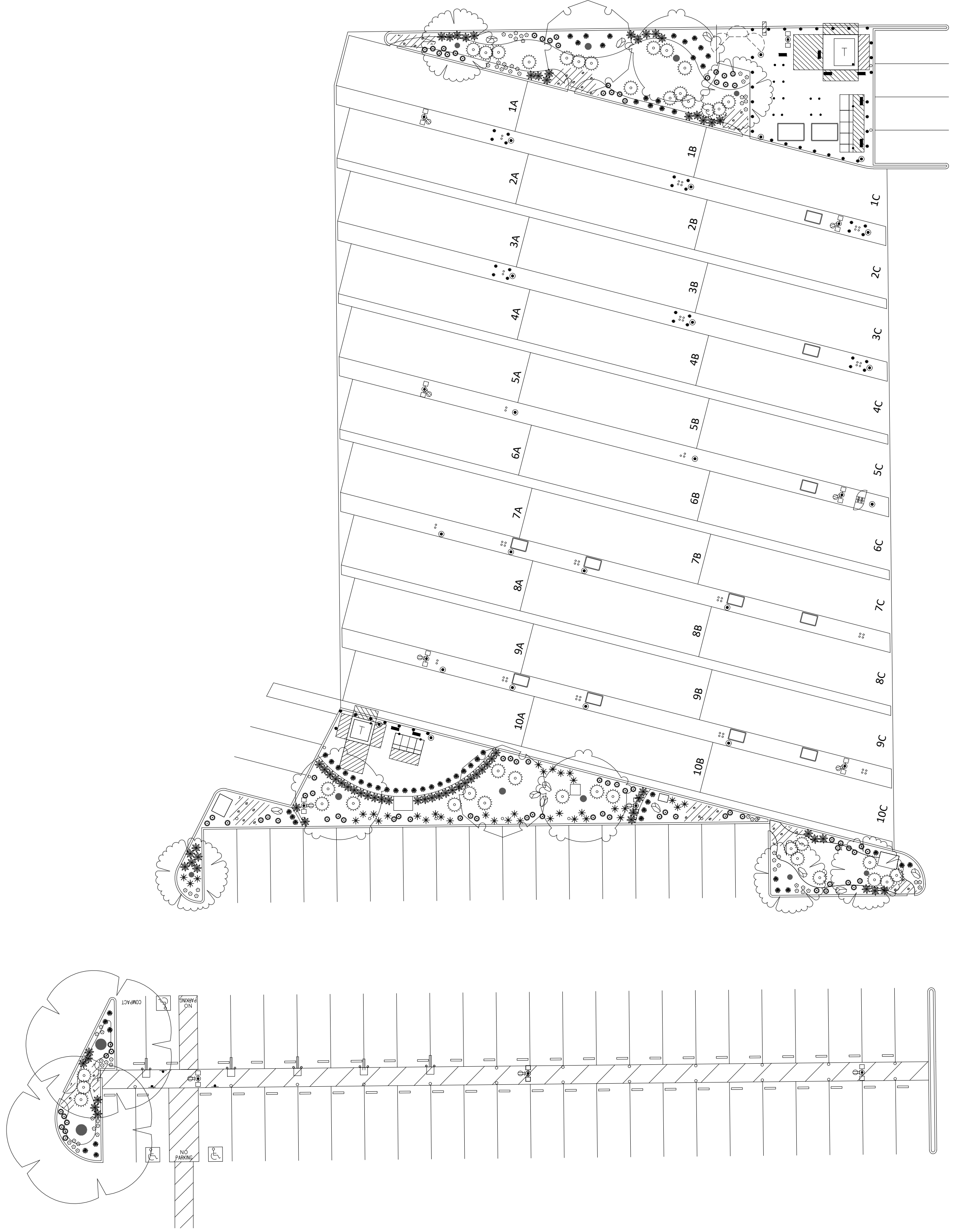


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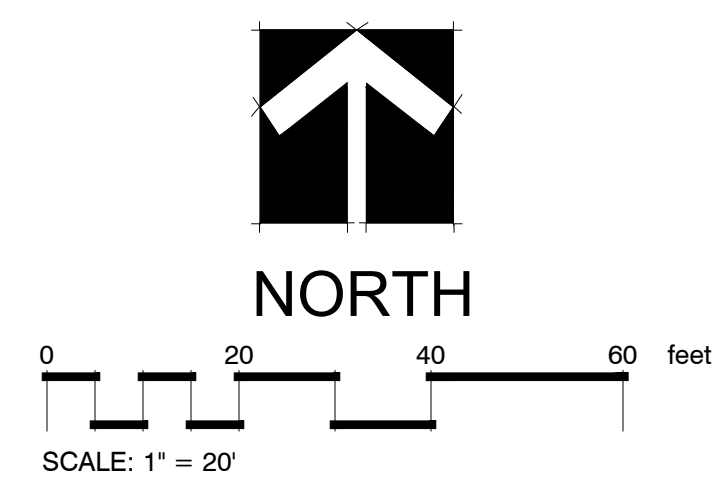
CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT
 GROUNDCOVER PLAN



PLANT SCHEDULE ZEBD BUS DEPOT					
DECIDUOUS TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	
	ACE AU2	Acer freemanii 'Autumn Blaze' / Autumn Blaze Maple	2' Cal.	24" Box	
	ACE JCS	Acer truncatum x platanoides 'JFS-KW202' TM / Crimson Sunset Maple	2' Cal.	24" Box	
	ULM EM2	Ulmus propinqua 'JFS-Bieberich' TM / Emerald Sunshine Elm	2' Cal.	24" Box	
FLOWERING TREES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	
	PIS RED	Pistacia x 'Red Push' / Red Push Pistache	2' Cal.	24" Box	
GRASSES	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	
	CAR RRS	Carex buchananii 'Red Rooster' / Red Rooster Leather Leaf Sedge	1 gal.		
	TRI DAC	Tripsacum dactyloides nana / Dwarf Fakahatchee Grass	1 gal.		
PERENNIALS	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	
	LAN RE5	Lantana camara 'Balluced' TM / Little Lucky Red Lantana	1 gal.		
	PEN TPA	Penstemon strictus 'Bandera' / Bandera Rocky Mountain Penstemon	1 gal.		
ANNUALS/PERENNIALS	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	
	GAU WHI	Gaura lindheimeri 'Whirling Butterflies' / Whirling Butterflies Gaura	1 gal.		
	RUD GO2	Rudbeckia fulgida sullivantii 'Goldstrum' / Black-eyed Susan	1 gal.		
GROUND COVERS	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	SPACING
	HER SE2	Herniaria glabra 'Sea Foam' / Rupturewort	4"	Pot	12" o.c.

LANDSCAPE CONTRACTOR ACKNOWLEDGMENT:
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 THE NOTES AND SPECIFICATIONS, INCLUDING THE
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BY: _____ DATE: _____
 COMPANY: _____ TITLE: _____



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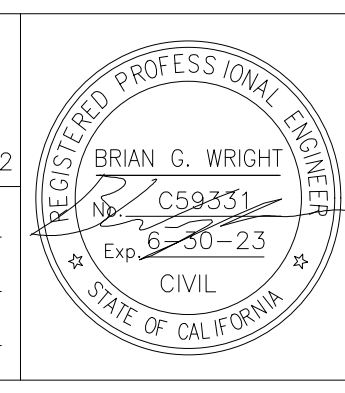
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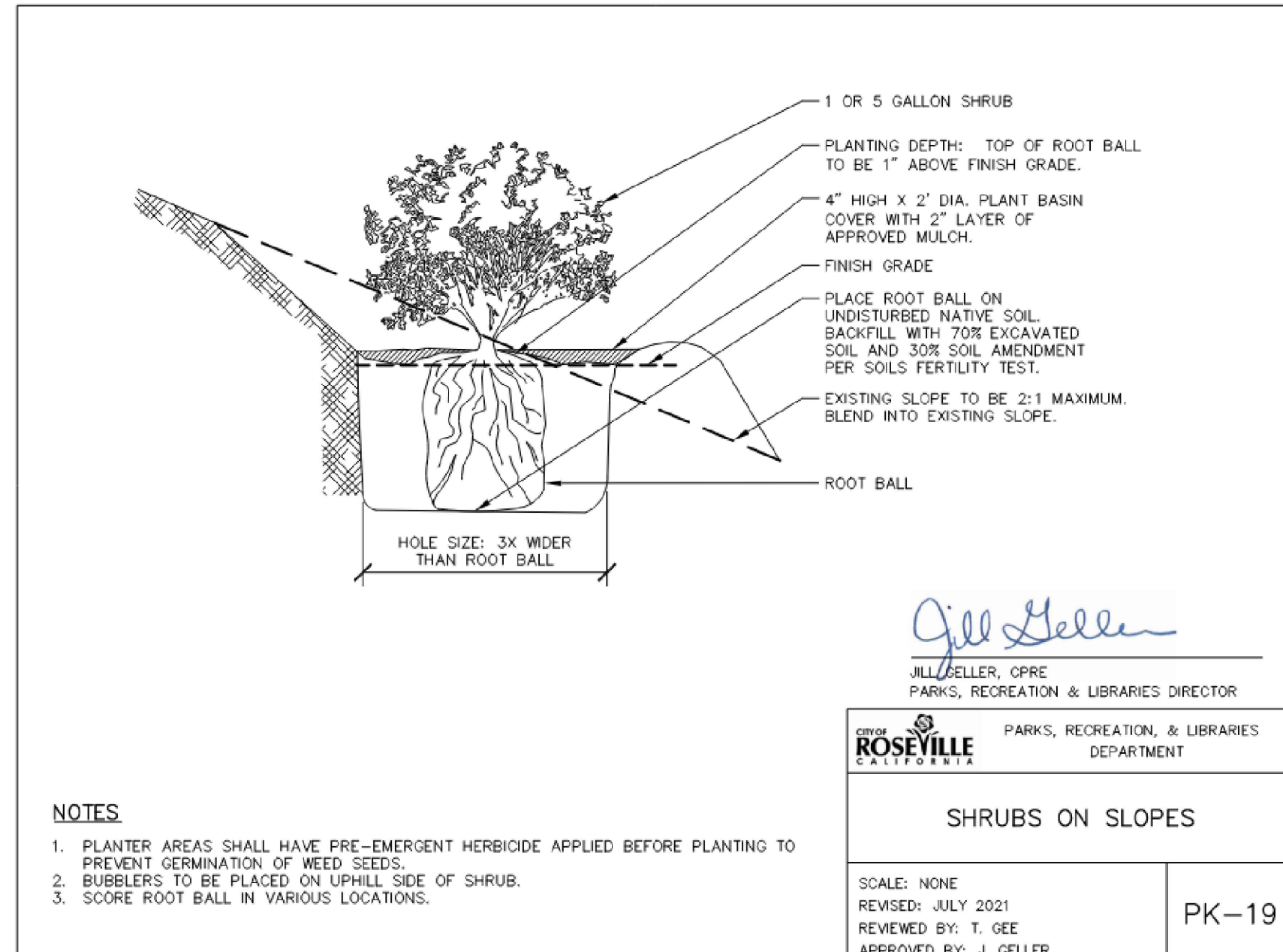
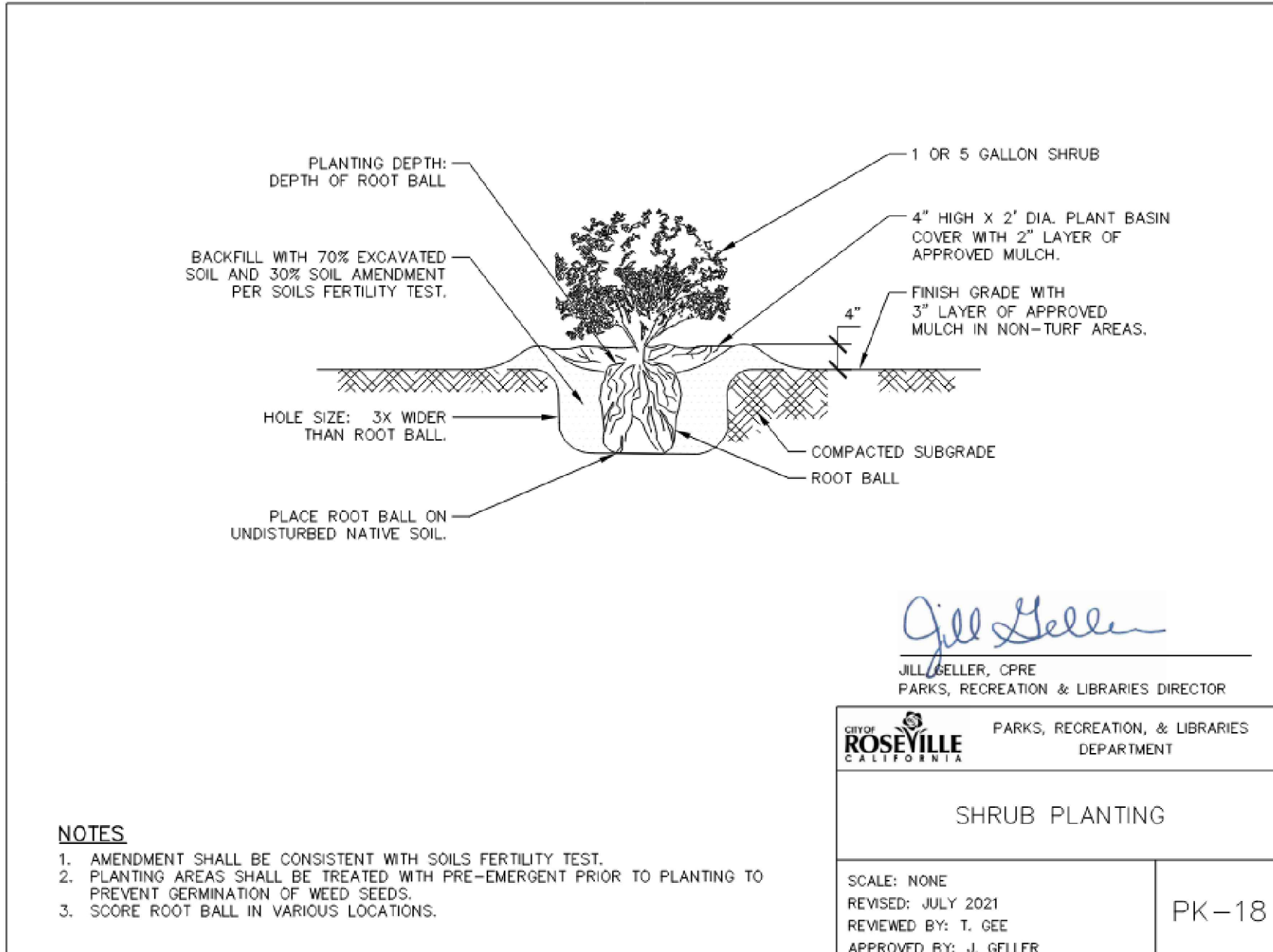
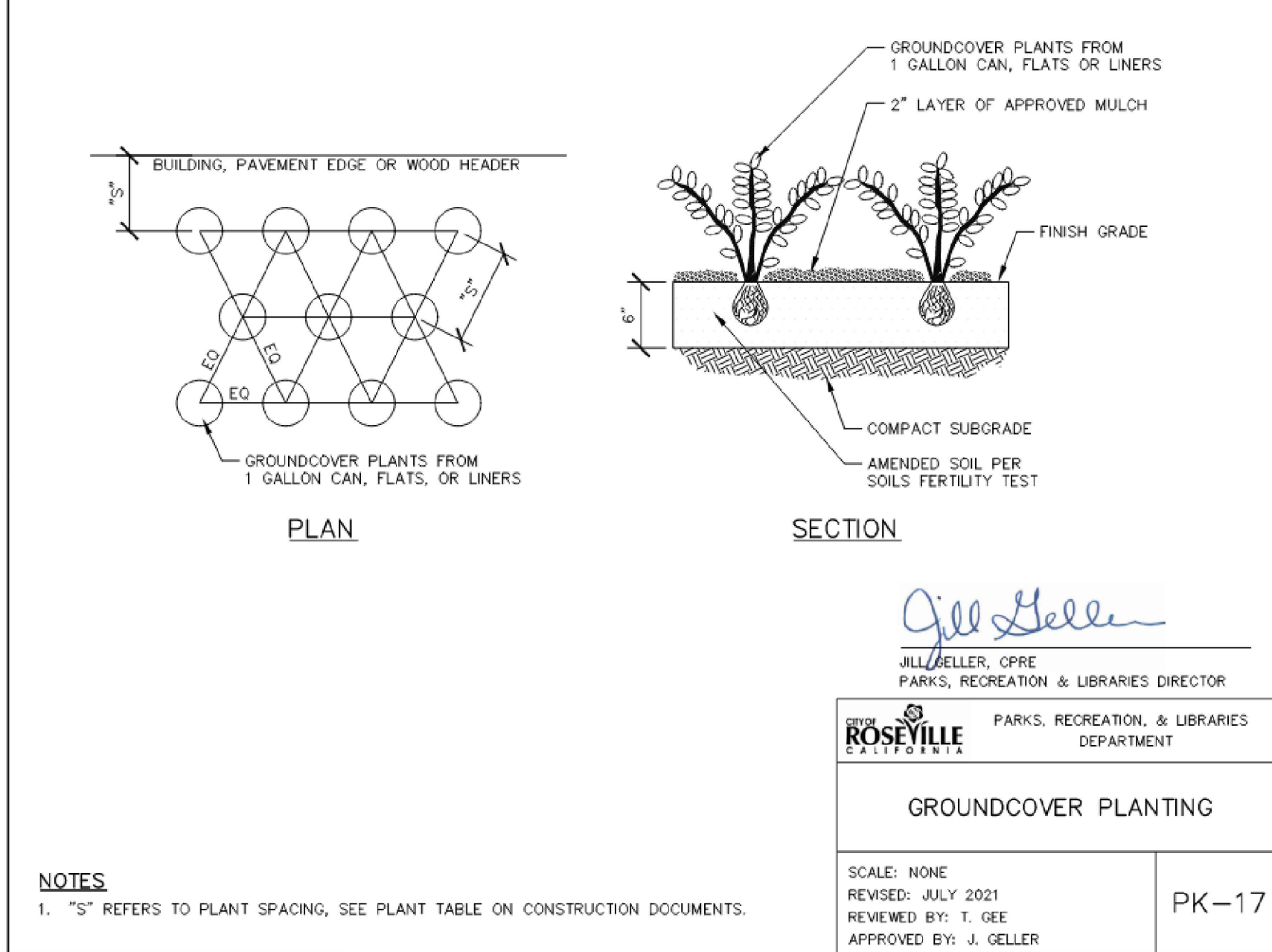
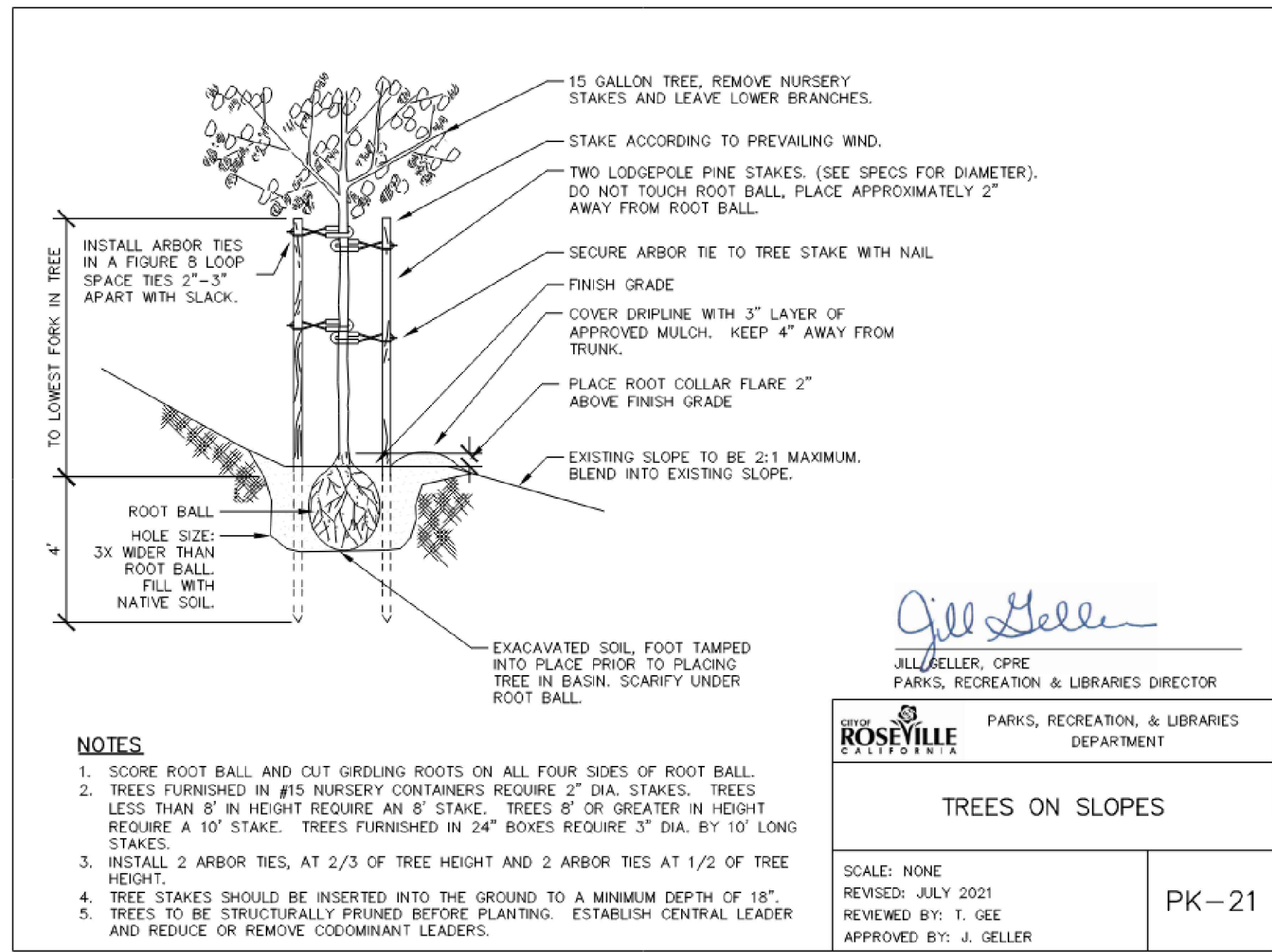
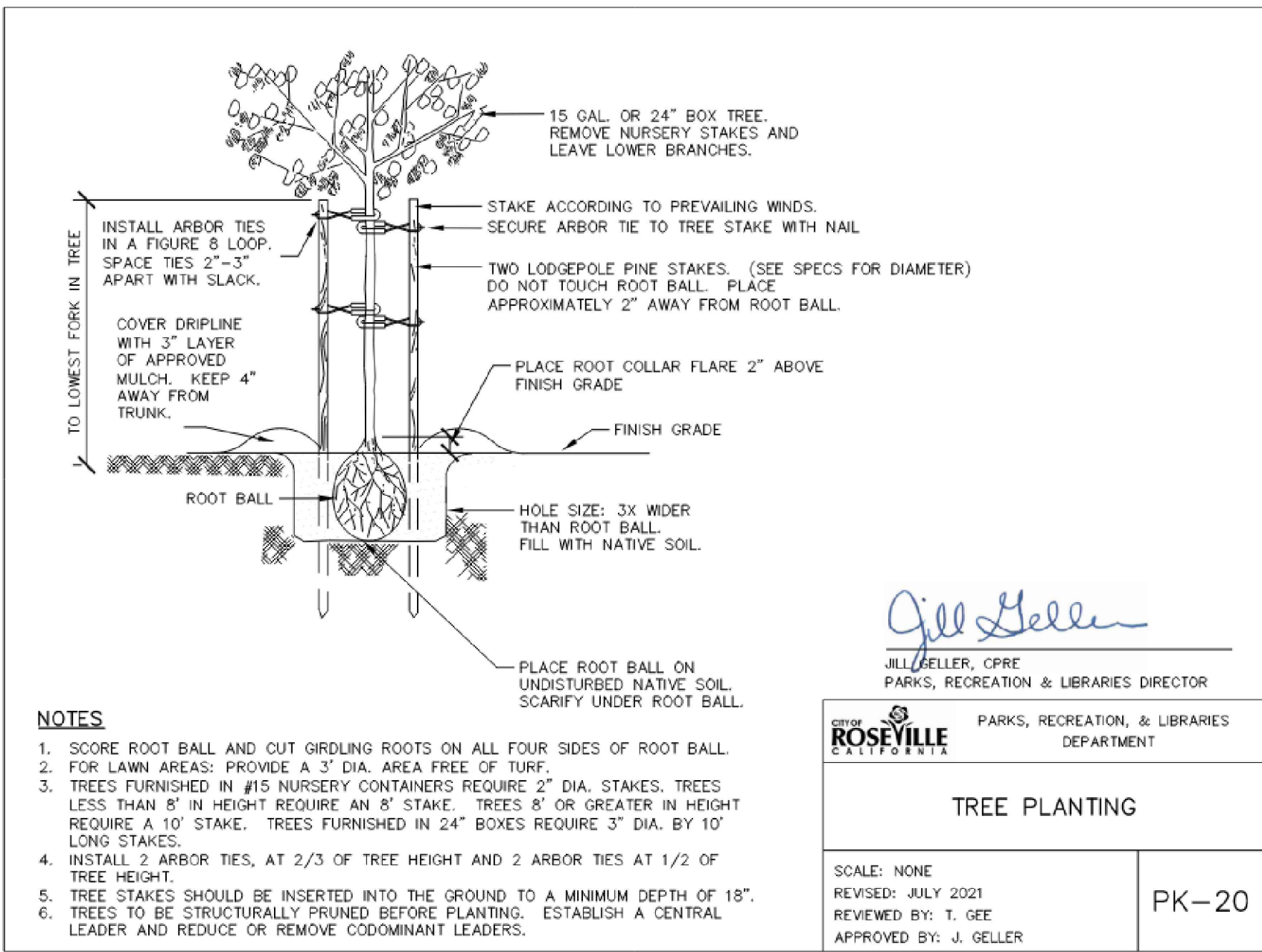


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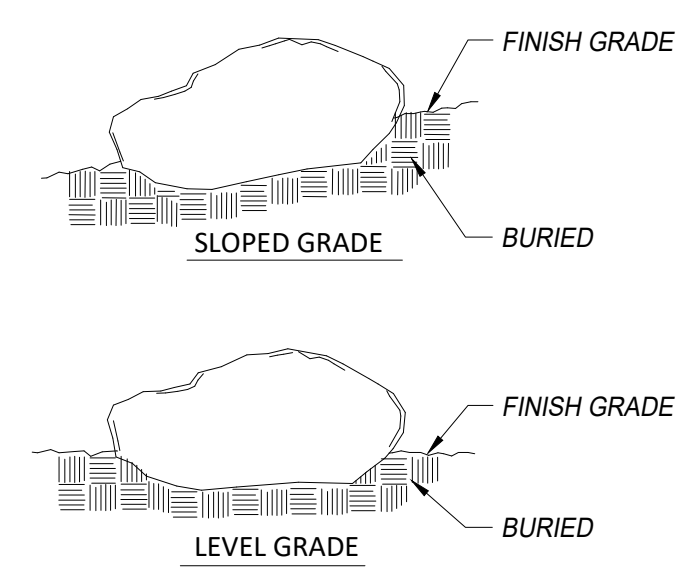
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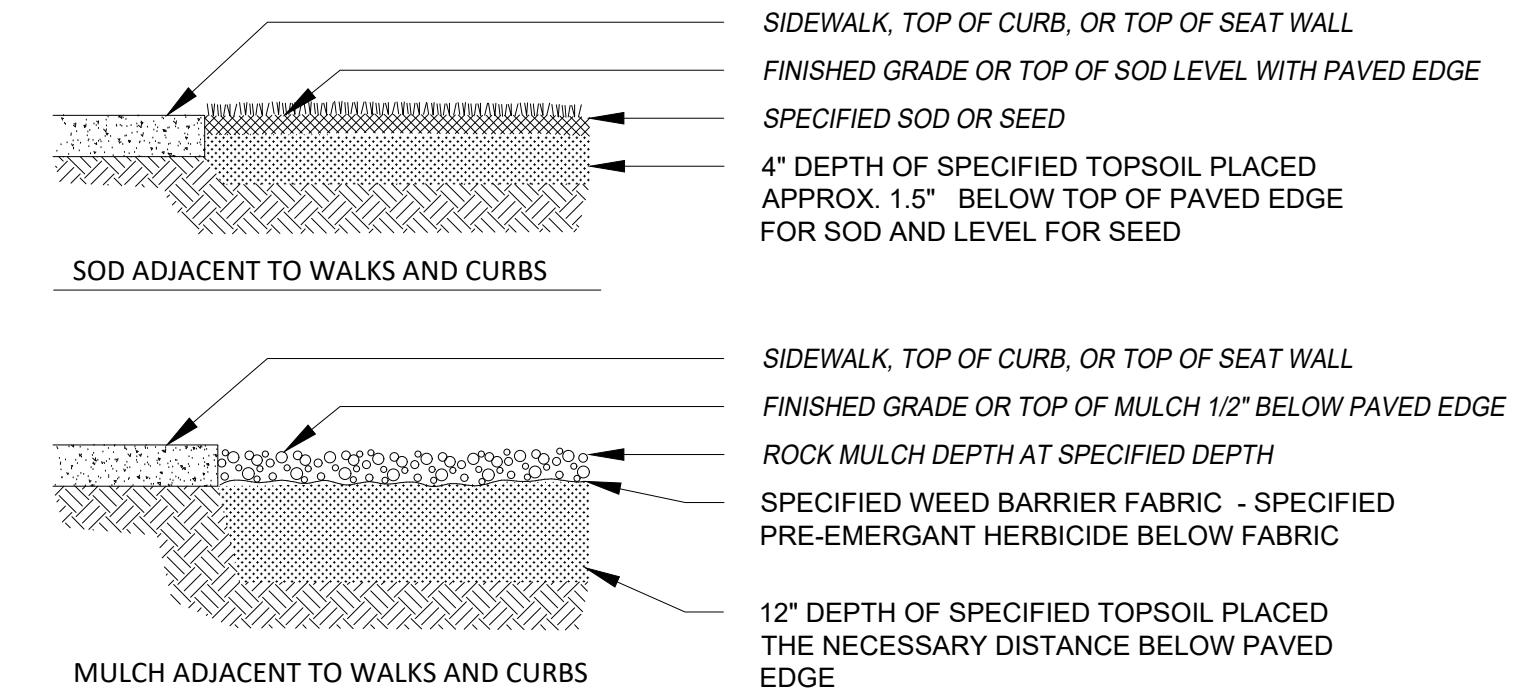
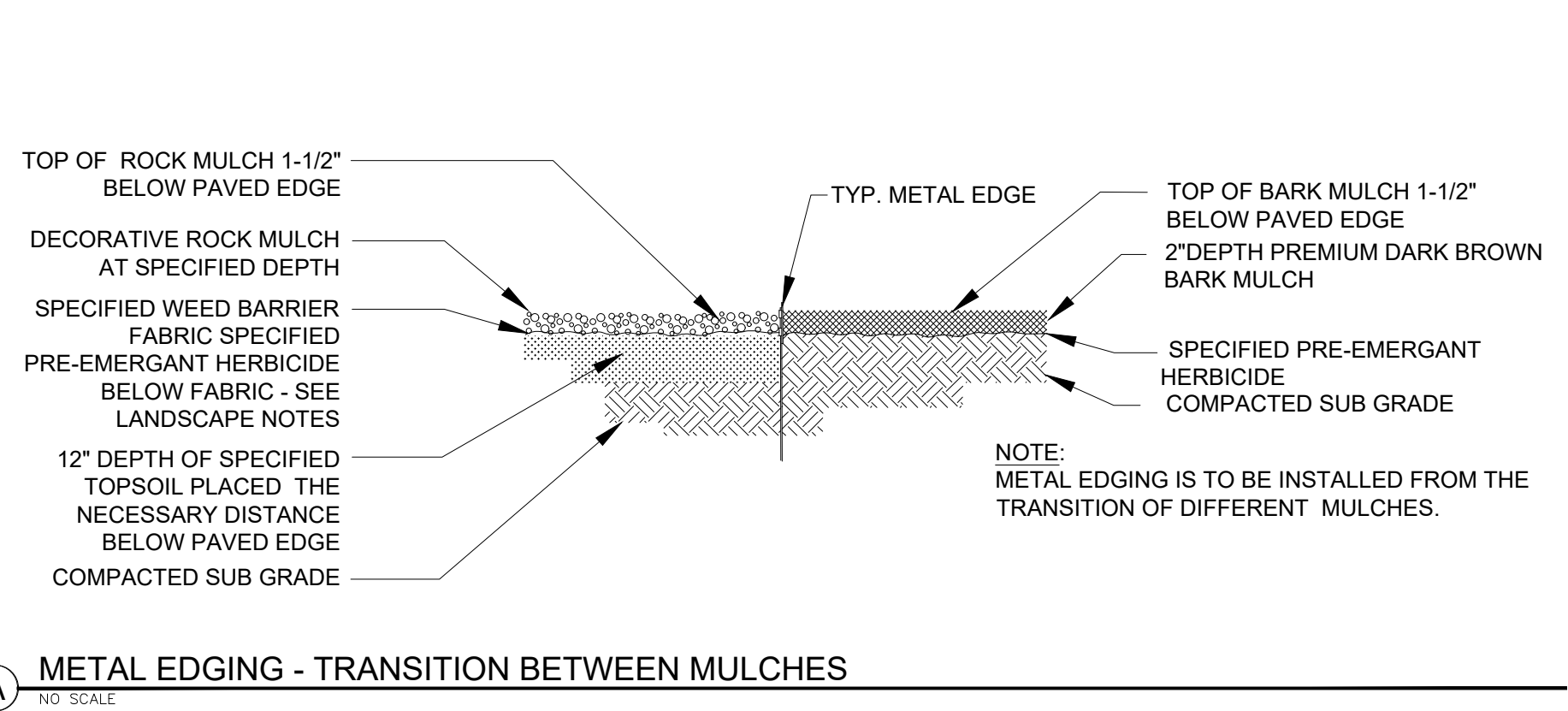
**CITY OF ROSEVILLE CORPORATION YARD
 ZERO EMISSION BUS DEPOT PROJECT
 PLANTING PLAN**



- BOULDER NOTES:**
- INSTALLER RESPONSIBLE TO PREVENT ANY SEVERE CHIPPING OR DAMAGE TO BOULDERS DURING THE PLACEMENT PROCESS.
 - BOULDERS ARE TO BE PLACED USING CABLES FROM A LOADER BOOM OR A BOULDER PLACEMENT BOOM.
 - BOULDER IS TO ULTIMATELY BE SET TO A MINIMUM OF 1/3 BURIED (SEE DETAIL).
 - ALL CAVITIES AND VOIDS NEAR THE BOTTOM OF THE BOULDER ARE TO BE SET BELOW FINISH GRADE.
 - BOULDERS IN CLUSTERS ARE TO BE SET AT VARIED HEIGHTS



D BOULDER DETAIL
NO SCALE



LANDSCAPE CONTRACTOR ACKNOWLEDGMENT:
I HAVE REVIEWED THE FULL PLAN SET AND READ THE NOTES AND SPECIFICATIONS, INCLUDING THE GENERAL NOTES ON THE MASTER DRAWING SET.

BY: _____ DATE: _____

COMPANY: _____ TITLE: _____

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NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. SEE NOTES

FIELD BOOK

CITY# 400164

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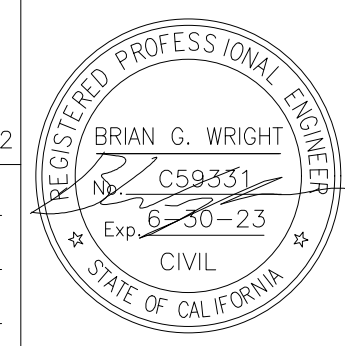
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DESIGNED BY: MEGAN BUCHE DATE: 9/2021

CHECKED BY: BRIAN WRIGHT DATE: 9/2021

DRAWN BY: CHARUNI KURUMBALAPITIYA DATE: 9/2021



CITY OF ROSEVILLE CORPORATION YARD

ZERO EMISSION BUS DEPOT PROJECT

LANDSCAPE DETAILS

IRRIGATION NOTES:

- LAYOUT OF IRRIGATION COMPONENTS IS SCHEMATIC FOR GRAPHIC CLARITY. ALL COMPONENTS SHALL BE PLACED IN LANDSCAPED AREAS, EXCEPT PIPE AND WIRE IN SLEEVING UNDER HARDSCAPES. CONTRACTOR TO NOTIFY THE OWNER APPROVED REPRESENTATIVE (OAR) OF ANY CONFLICTS AND REQUEST INSTRUCTIONS PRIOR TO COMMENCING OR PROCEEDING WITH THAT WORK.
- ALL IRRIGATION EQUIPMENT SHALL BE INSTALLED PER LOCAL CODE REQUIREMENTS.
- UTILITY LOCATIONS & DEPTHS, FINAL GRADES, HARDSCAPE FEATURES AND OR PLANTINGS MAY NOT BE INDICATED WITHIN THE IRRIGATION CD'S. IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEW OF OTHER PLANS, AND/OR SITE VERIFICATION OF THESE ITEMS. IRRIGATION CONTRACTOR SHALL VERIFY LOCATION OF EXISTING FEATURES OR OTHER SITE IMPROVEMENTS THAT WILL AFFECT OR BE AFFECTED BY IRRIGATION SYSTEM INSTALLATION. IF ANY PART OF THE CD'S CANNOT BE FOLLOWED DUE TO EXISTING OR PROPOSED CONDITIONS CONTACT THE OWNER APPROVED REPRESENTATIVE (OAR) FOR INSTRUCTIONS PRIOR TO COMMENCING OR PROCEEDING WITH THAT WORK.
- CONTRACTOR SHALL SELF-VERIFY MATERIAL COUNTS AND SQUARE FOOTAGES. ANY QUANTITIES SHOWN IN IRRIGATION LEGEND ARE PROVIDED AS COURTESY OWNER INFORMATION ONLY. SHOWN PLAN QUANTITIES SHALL TAKE PRECEDENCE OVER ANY LISTED LEGEND QUANTITIES. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE THE LARGER QUANTITY INDICATED.
- CONTRACTOR SHALL CONTACT THE LOCAL UNDERGROUND UTILITY PROVIDER OR LOCATOR SERVICES FOR UTILITY LOCATION AND IDENTIFICATION 48 HOURS PRIOR TO ANY EXCAVATION ON PROJECT SITE.
- PERFORM EXCAVATION IN THE VICINITY OF UNDERGROUND UTILITIES AND EXISTING BUILDINGS, FEATURES OR HARDSCAPES WITH CARE; AND IF NECESSARY, BY HAND. CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OR DAMAGE SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
- EXACT LOCATIONS OF MAJOR IRRIGATION COMPONENTS AND ROUTING OF MAIN LINE AND WIRING TO BE APPROVED BY THE OAR IN THE FIELD PRIOR TO INSTALLATION. IRRIGATION MAIN LINE AND/OR OTHER COMPONENTS ARE SHOWN SCHEMATICALLY ON PLAN FOR GRAPHIC CLARITY ONLY. ALL IRRIGATION COMPONENTS SHALL BE LOCATED IN LANDSCAPED AREAS.
- IRRIGATION PLANS MAY SHOW ISOLATION VALVES AND OR REMOTE CONTROL VALVES (RCV'S) IN GROUPS AND LOCATIONS. CONTRACTOR SHALL PLACE RCV'S IN LOGICAL GROUPINGS AND LOCATIONS AS FIELD CONDITIONS PERMIT. ALL REMOTE CONTROL VALVES AND QUICK COUPLER VALVES SHALL BE ISOLATED FROM THE MAIN LINE VIA A MANIFOLD ISOLATION VALVE AS SHOWN IN DETAILS.
- QUICK COUPLER VALVES IN LANDSCAPED AREAS SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO PLAN LOCATIONS. IRRIGATION CONTRACTOR MAY LOCATE QUICK COUPLER VALVES AT HIS DISCRETION, FOLLOWING DESIGN INTENT TO PLACE QUICK COUPLER VALVES SO THAT SPACING SHALL NOT EXCEED 200 FEET APART TO ALLOW FOR MANUAL HAND WATERING OF PLANT MATERIAL WITH 100 FEET OF HOSE.
- CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE ALL SLEEVES NECESSARY FOR MAIN LINE, WIRE AND LATERAL LINE ARE INSTALLED AS NEEDED, PRIOR TO HARDSCAPE FEATURES. NOT ALL SLEEVING NECESSARY TO COMPLETE THIS PROJECT MAY BE SHOWN ON PLAN. PORTIONS OF IRRIGATION SLEEVES MAY HAVE OR MAY NOT HAVE BEEN PREVIOUSLY INSTALLED BY OTHERS. COORDINATE LOCATION, INSTALLATION AND USAGE WITH GENERAL CONTRACTOR AND OR OAR.
- CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN EXISTING LANDSCAPE PLANT MATERIAL SERVICED BY EXISTING IRRIGATION SYSTEM IN A HEALTHY MANNER. CONTRACTOR SHALL NOT HAVE EXISTING IRRIGATION SYSTEM DISABLED FOR MORE THAN 48 HOURS AT ANY TIME. UPON DISABLING OR DEMOLISHING EXISTING IRRIGATION, CONTRACTOR SHALL INSTALL NEW MAIN AND WIRES TO RESTORE OPERATION IN NO MORE THAN 48 HOURS. CONTRACTOR SHALL BE RESPONSIBLE TO PREVENT DEBRIS FROM ENTERING EXISTING PIPING.
- FINAL LOCATION AND ROUTING OF IRRIGATION MAIN LINE AND MAJOR COMPONENTS SHALL BE APPROVED BY OWNER'S APPROVED REPRESENTATIVE. CONTRACTOR SHALL PERFORM LAYOUT OF IRRIGATION MAIN LINE ROUTING AND MAJOR COMPONENT LOCATIONS, AND MAKE APPOINTMENT AT LEAST 24 HOURS IN ADVANCE OF INSTALLATION FOR APPROVAL. WORK INSTALLED WITHOUT APPROVAL IS SUBJECT TO REJECTION AND REPLACEMENT AT CONTRACTOR EXPENSE.
- CONTRACTOR SHALL SUBMIT TO OWNER AN IRRIGATION SCHEDULE REQUIRED FOR ESTABLISHMENT OF NEW LANDSCAPE, AND ONE FOR WORST-CASE OPERATION AFTER GROW-IN.
- CONTRACTOR SHALL ENSURE THAT THERE IS PROPER COVERAGE AND OVERLAP FROM NEW IRRIGATION SYSTEM TO EXISTING IRRIGATION SYSTEM. ANY DISCREPANCIES OR DIFFICULTIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT.

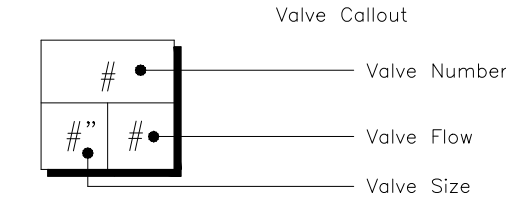
MAINTENANCE, GUARANTEE, SUBMITTALS NOTES:

- CONTRACTOR SHALL BE REQUIRED TO MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER DURING CONSTRUCTION SO SUBSTANTIAL COMPLETION, FOR SIXTY (60) DAY PLANT ESTABLISHMENT PERIOD, AND FOR A PERIOD OF ONE (1) YEAR FROM DATE OF COMPLETION OF THE ESTABLISHMENT PERIOD. IF UNSATISFACTORY CONDITIONS OR DAMAGE DEVELOPS IN THE PERIOD STIPULATED THE CONTRACTOR SHALL IMMEDIATELY PLACE IT IN SATISFACTORY CONDITION.
- FILL AND REPAIR DEPRESSIONS AND REPLACE PLANTING'S DUE TO SETTLEMENT OF IRRIGATION TRENCHES.
- AT END OF THE FIRST SEASON, SHUT OFF AND WINTERIZE SYSTEM. AT THE BEGINNING OF THE NEXT SEASON, RE-COMMISION SYSTEM. MAKE ADJUSTMENTS AND REPAIRS REQUIRED TO MAKE SYSTEM FULLY OPERATIONAL.
- ALL WORK AND MATERIALS SHALL BE GUARANTEED FOR COMPLIANCE WITH THE CONTRACT REQUIREMENTS, FOR ONE (1) YEAR FROM DATE ON COMPLETION OF THE ESTABLISHMENT PERIOD. IF UNSATISFACTORY CONDITIONS OR DAMAGE DEVELOPS IN THE PERIOD STIPULATED BY THIS GUARANTY THAT IS NOT CAUSED BY OWNERS ABUSE OR NEGLIGENCE, OBVIOUS VANDALISM, THEFT, OR CASUALTY TO THE PROPERTY, IT SHALL BE DEEMED TO BE A RESULT OF FAULTY MATERIALS OR WORKMANSHIP. THE CONTRACTOR SHALL PROVIDE AT NO ADDITIONAL COST TO THE OWNER, ALL LABOR AND MATERIAL NECESSARY TO REPLACE MATERIALS OR PLACE THE DEFECTIVE INSTALLATION IN A CORRECT OPERATING AND SATISFACTORY CONDITION. ALL GUARANTEES SHALL BE IN WRITING AND WORDED AS APPROVED BY LANDSCAPE ARCHITECT.
- CONTRACTOR SHALL SUBMIT THE FOLLOWING PRIOR TO &/OR DURING CONSTRUCTION. DURATION AND TIMES TO WATER INCLUDE ADJUSTMENT RECOMMENDATIONS:
 - PRODUCT DATA: SUBMIT MANUFACTURE'S TECHNICAL PRODUCT DATA & INSTALLATION INSTRUCTIONS FOR IRRIGATION SYSTEM MATERIALS & PRODUCTS.
 - DESIGN DRAWINGS: SUBMIT SCALE DRAWINGS THAT IDENTIFY THE SIZE TYPE AND LOCATION OF ALL SLEEVES, MAIN LINE, LATERAL LINES, VALVES, SPRINKLER HEADS AND OTHER DEVICES, THE DIFFERENT DEVICES AND SPRINKLER HEADS SHALL BE DISTINGUISHED BY USING DIFFERENT GRAPHIC SYMBOLS, NAME AND/OR NUMBERS. A LEGEND OF SYMBOLS SHALL BE PROVIDED THAT WILL IDENTIFY THE SPECIFIC PRODUCTS AND PRODUCT NUMBER. QUANTITIES AND LENGTHS OF ALL PRODUCTS AND MATERIALS SHALL ALSO BE PROVIDED IN LEGEND. ALL DRAWINGS MUST BE IN AUTOCAD COMPATIBLE FORMAT.
 - MAINTENANCE DATA: SUBMIT MAINTENANCE DATA AND PARTS LISTS FOR IRRIGATION SPRINKLER SYSTEM MATERIALS.
 - CONTRACTOR SHALL ALSO PROVIDE TWO 11X17 LAMINATED SPRINKLER ZONE (CIRCUIT) MAPS INCLUDING GENERAL GUIDELINES FOR WINTERIZING AND SPRING START UP PROCEDURES ALL MANUAL VALVE LOCATIONS SHALL BE IDENTIFIED INCLUDING GENERAL GUIDELINES FOR ZONE ISOLATION PROCEDURES.

IRRIGATION SCHEDULE ZEBD IRRIGATION

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	Hunter ICZ-101-40 1" Dnp Control Zone Kit. 1" ICV Globe Valve with 1" HY100 filter system. Pressure Regulation: 40psi. Flow Range: 2 GPM to 20 GPM. 150 mesh stainless steel screen.	3	
	Hunter H5-B-STK Dnp 360 Large Diameter, Umbrella of Water. Micro Spray for Residential/Commercial use. Operating Range: 15psi to 30psi. Full 360 degree spray. Halo-Spray with Barb and 6" Stake.	24	
	Area to Receive Dnpline Hunter HDL-06-18-CV HDL-06-18-CV: Hunter Dnpline w/ 0.6 GPH emitters at 18" O.C. Check valve, dark brown tubing with gray strnpng. Dnpline laterals spaced at 18" apart, with emitters offset for tnanular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.	3,111 l.f.	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
	Irrigation Lateral Line: PVC Schedule 40 3/4"	887.7 l.f.	
	Irrigation Lateral Line: PVC Schedule 40 1"	58.8 l.f.	
	Irrigation Lateral Line: PVC Schedule 40 1 1/4"	43.9 l.f.	
	Irrigation Mainline: PVC Schedule 40	336.7 l.f.	
	Pipe Sleeve: PVC Schedule 40 3" Typical pipe sleeve for irmgation pipe. Pipe sleeve size shall allow for irmgation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	41.4 l.f.	
	Pipe Sleeve: PVC Schedule 40 6" Typical pipe sleeve for irmgation pipe. Pipe sleeve size shall allow for irmgation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	187.8 l.f.	



LANDSCAPE CONTRACTOR ACKNOWLEDGMENT:
I HAVE REVIEWED THE FULL PLAN SET AND READ THE NOTES AND SPECIFICATIONS, INCLUDING THE GENERAL NOTES ON THE MASTER DRAWING SET.

BY: _____ DATE: _____
COMPANY: _____ TITLE: _____

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REVISIONS			
NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. SEE NOTES

THE VERTICAL DATUM OF THIS MAPPING IS BASED ON THE CITY OF ROSEVILLE BENCHMARKS 65, 66, 85, AND 90, ADJUSTED TO NAVD88 BY ADDING A PROJECT FACTOR OF +2.16 FEET.

FIELD BOOK

CITY# 400164

SCALE

HORIZ. _____

VERT. _____



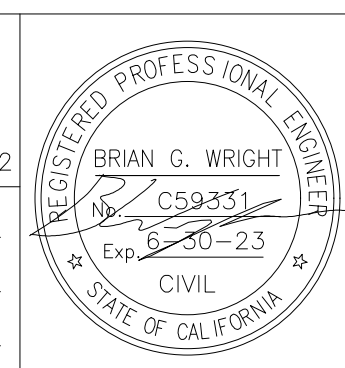
PSOMAS

1075 Creekside Ridge Way, Suite 200 Roseville, CA 95678 (916) 788-8122

DESIGNED BY: MEGAN BUCHE DATE: 9/2021

CHECKED BY: BRIAN WRIGHT DATE: 9/2021

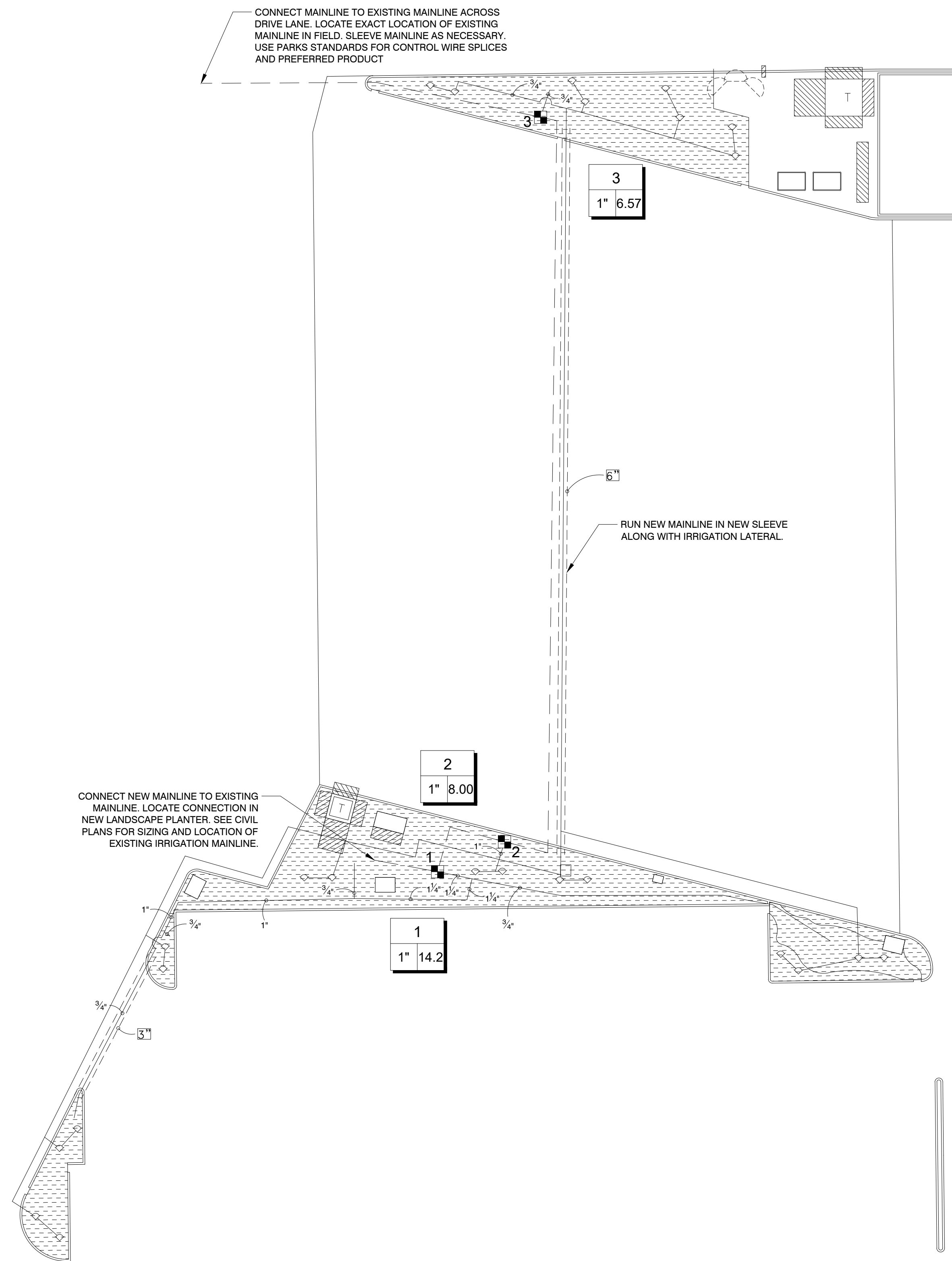
DRAWN BY: CHARUNI KURUMBALAPITIYA DATE: 9/2021



CITY OF ROSEVILLE CORPORATION YARD

ZERO EMISSION BUS DEPOT PROJECT

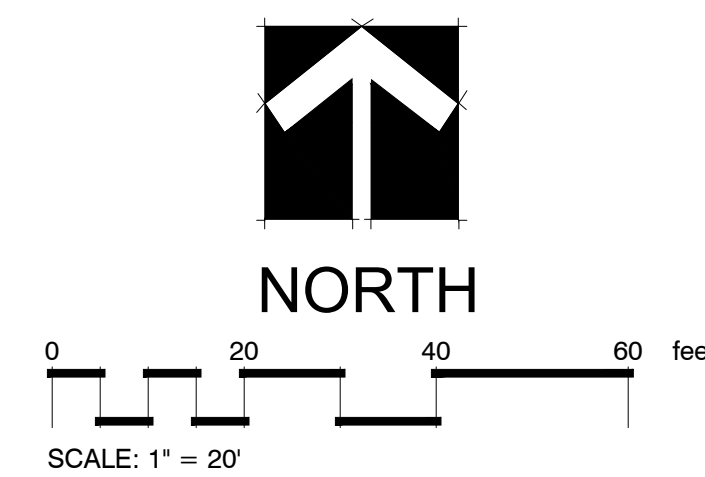
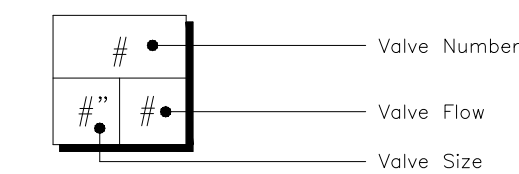
IRRIGATION NOTES AND SCHEDULES



IRRIGATION SCHEDULE ZEBD IRRIGATION

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
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○	Hunter HS-B-STK Dnp 360 Large Diameter, Umbrella of Water. Micro Spray for Residential/Commercial use. Operating Range: 15psi to 30psi. Full 360 degree spray. Halo-Spray with Barb and 6" Stake.	24	
▨	Area to Receive Dripline Hunter HDL-06-18-CV HDL-06-18-CV: Hunter Dripline w/ 0.6 GPH emitters at 18" O.C. Check valve, dark brown tubing with gray striping. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or FLD-LOC fittings.	3,111 l.f.	

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL
—	Irrigation Lateral Line: PVC Schedule 40 3/4"	887.7 l.f.	
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----	Pipe Sleeve: PVC Schedule 40 3" Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	41.4 l.f.	
----	Pipe Sleeve: PVC Schedule 40 6" Typical pipe sleeve for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	187.8 l.f.	



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Xrefs: ZEBD_landscape\ZEBD-C-MODEL\ZEBD-X-UTIL\ZEBD-C-UTIL\ZEBD-C-BORDER Images: cropped COR_block_logo.tif\cropped COR_block_logo.tif\cropped COR_block_logo.tif

NO.	DESCRIPTION	DATE	BY

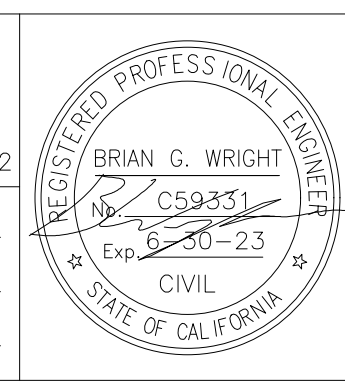
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THE VERTICAL DATUM OF THIS MAPPING IS BASED ON THE CITY OF ROSEVILLE BENCHMARKS 65, 66, 85, AND 90, ADJUSTED TO NAVD88 BY ADDING A PROJECT FACTOR OF +2.16 FEET.

FIELD BOOK CITY# 400164
SCALE
HORIZ. _____
VERT. _____



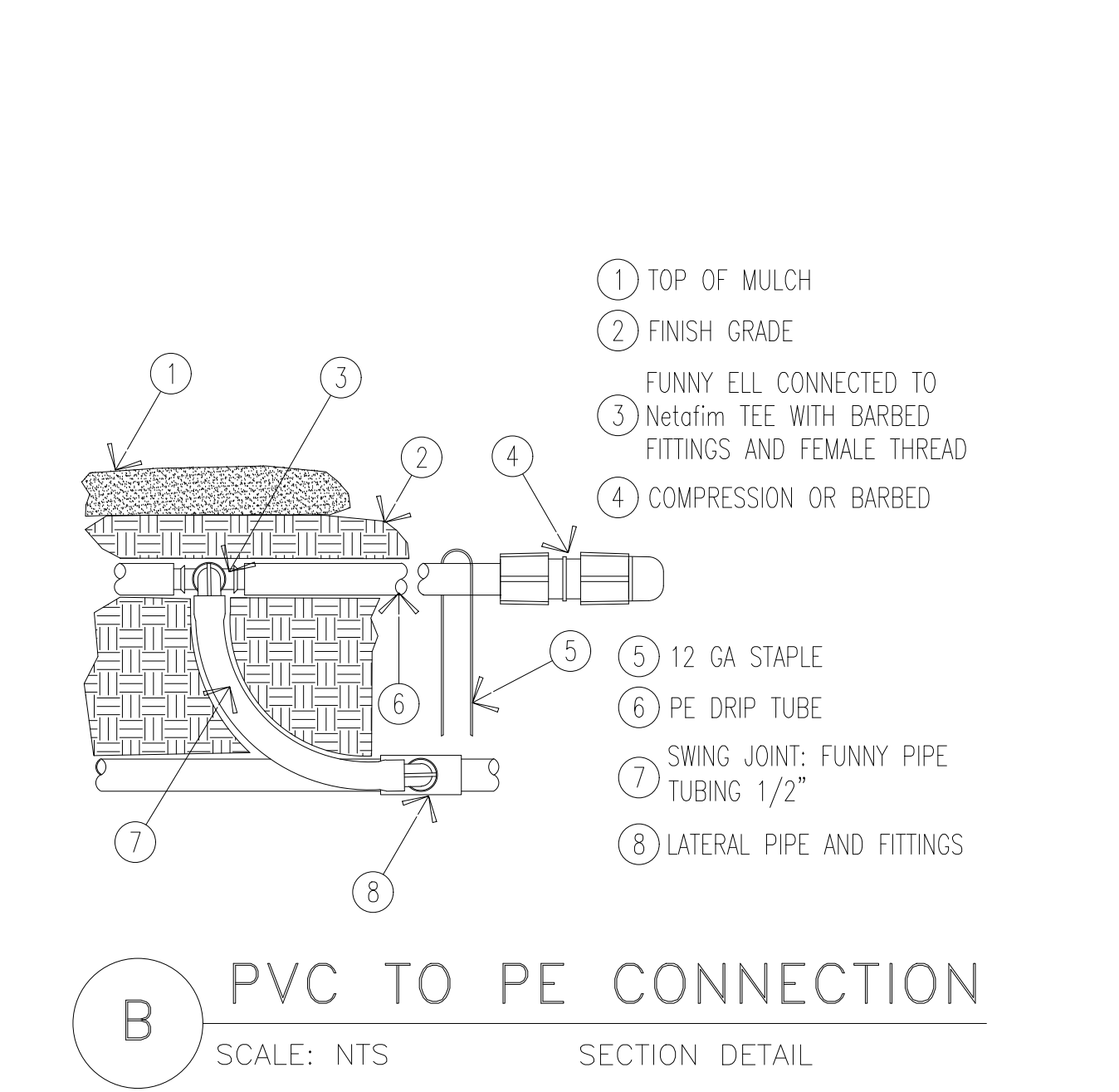
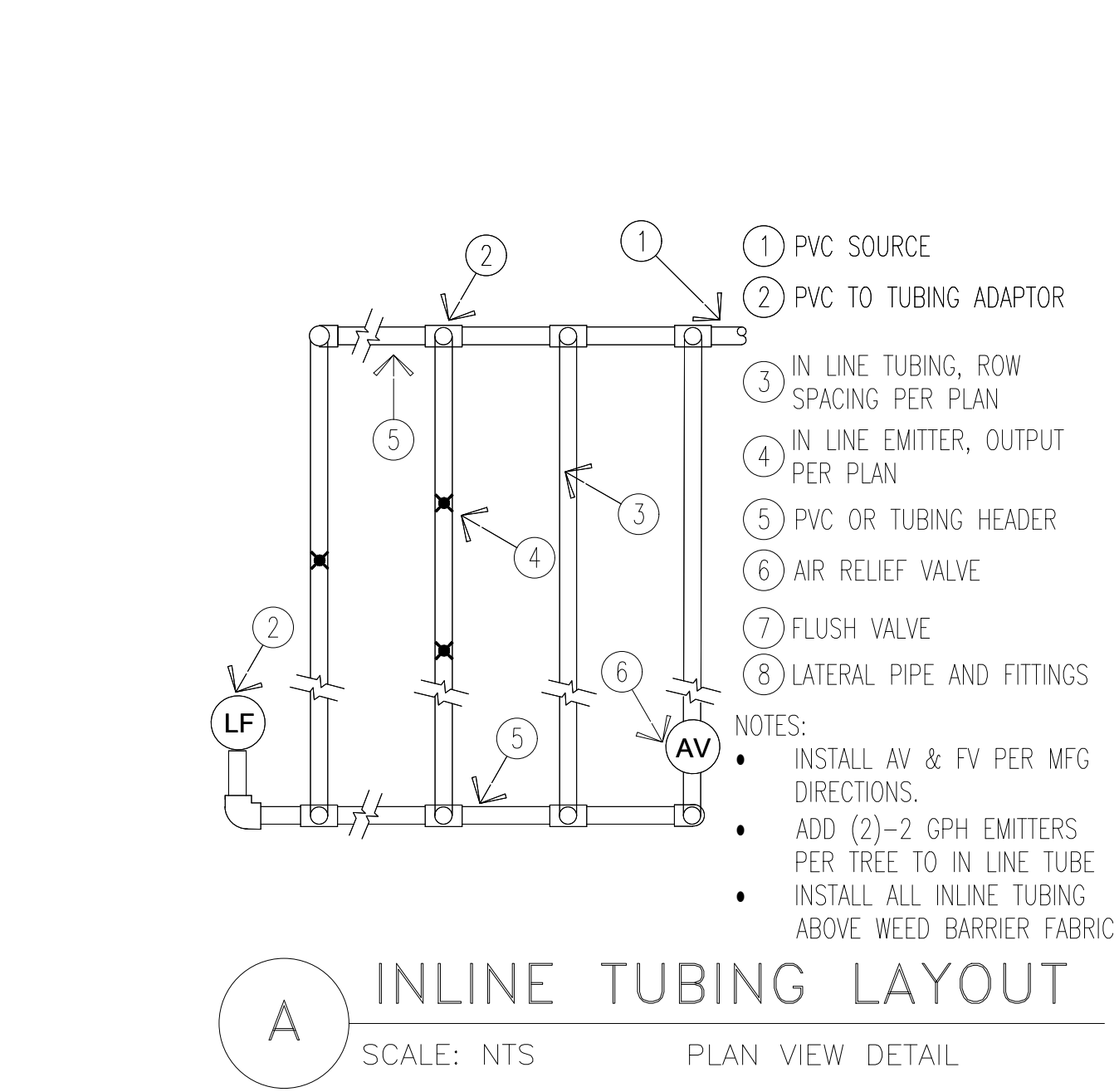
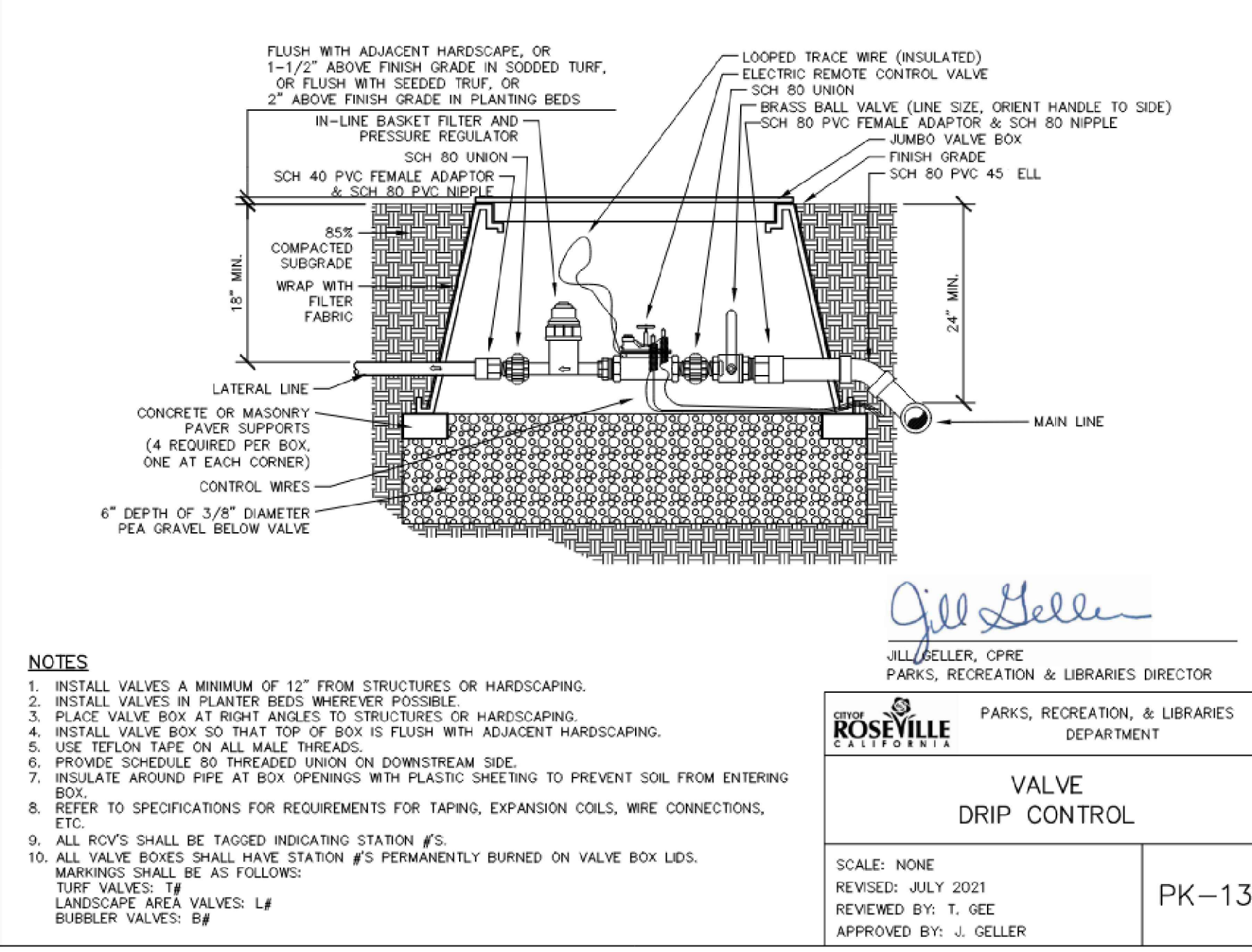
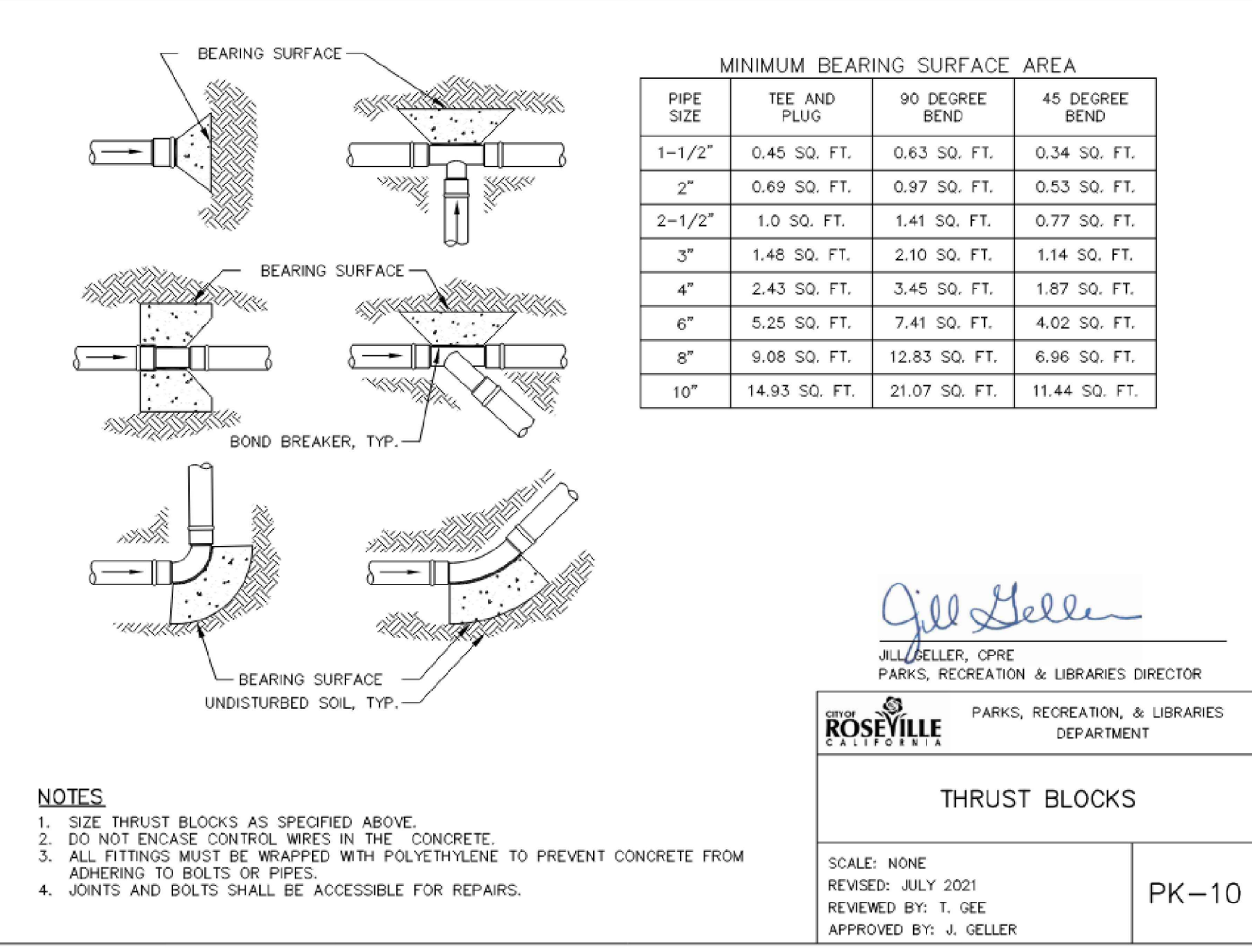
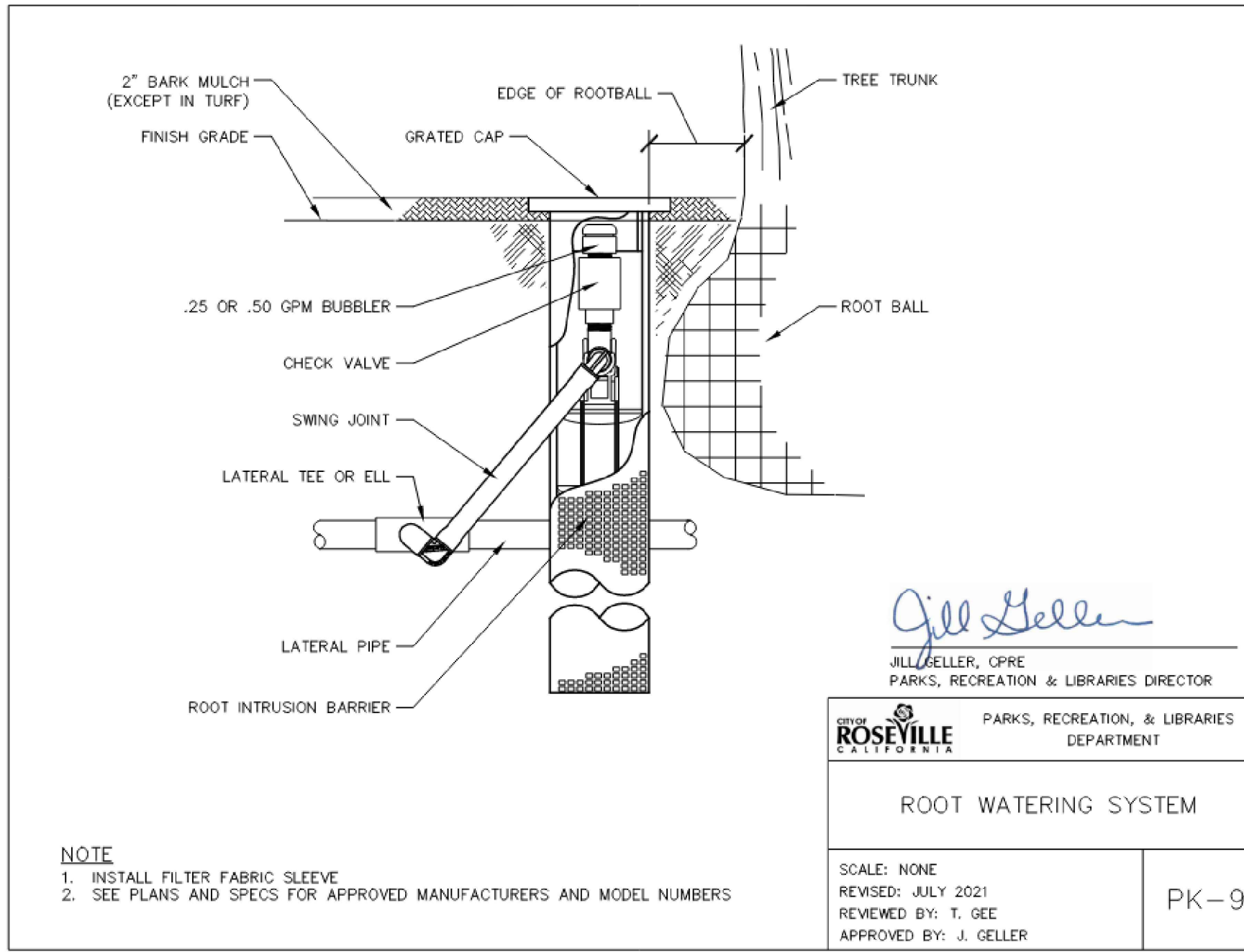
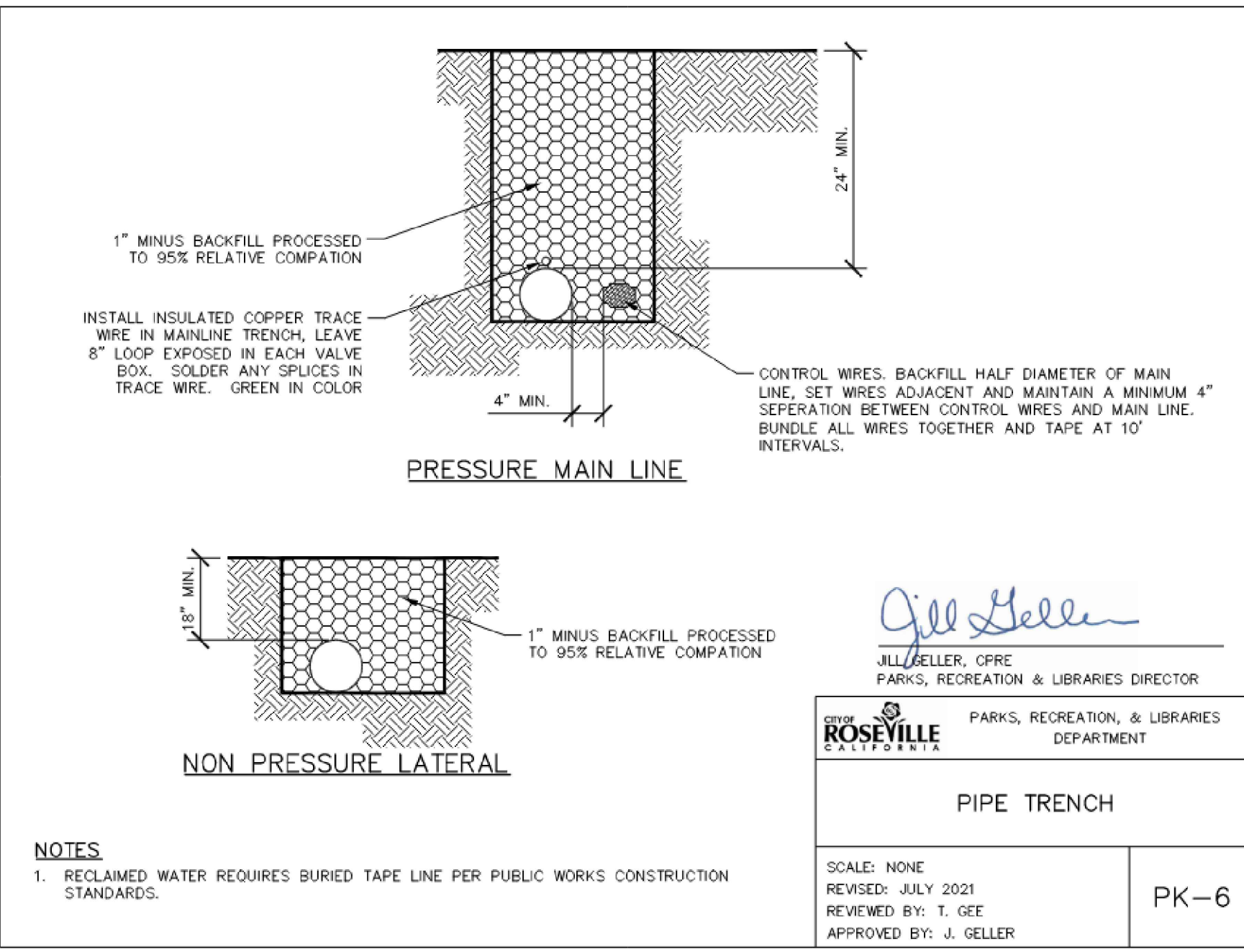
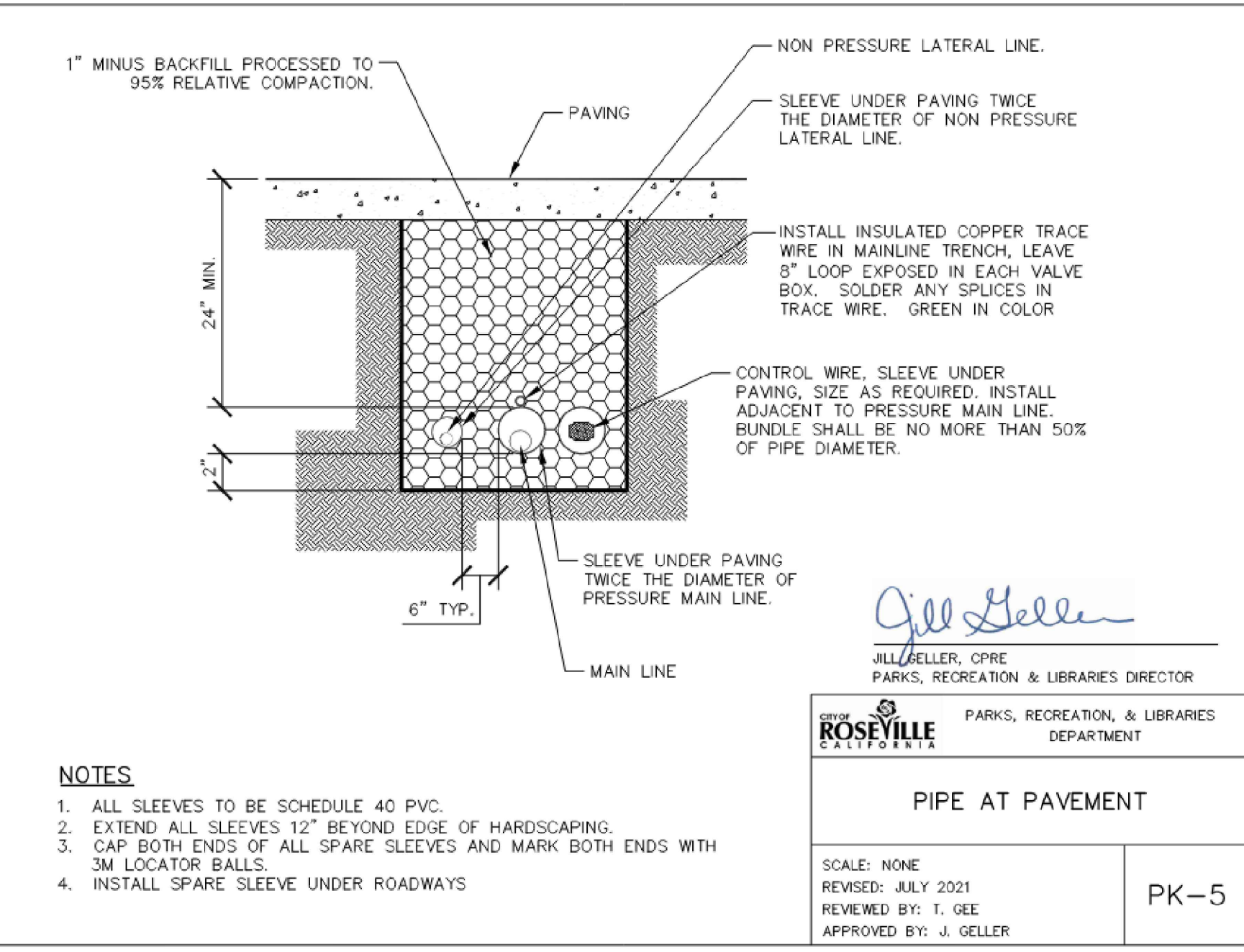
PSOMAS
1075 Creekside Ridge Way, Suite 200 Roseville, CA 95678 (916) 788-8122

DESIGNED BY: MEGAN BUCHE DATE: 9/2021
CHECKED BY: BRIAN WRIGHT DATE: 9/2021
DRAWN BY: CHARUNI KURUMBALAPITIYA DATE: 9/2021



**CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
OVERALL IRRIGATION PLAN**

SHEET **43**
OF
47



LANDSCAPE CONTRACTOR ACKNOWLEDGMENT:
I HAVE REVIEWED THE FULL PLAN SET AND READ THE NOTES AND SPECIFICATIONS, INCLUDING THE GENERAL NOTES ON THE MASTER DRAWING SET.

BY: _____ DATE: _____

COMPANY: _____ TITLE: _____

Xrefs: ZEBD landscape\ZEBD-C-MODEL\ZEBD-X-UTIL\ZEBD-C-UTIL\ZEBD-C-BORDER images: cropped COR_black_logo.tif\cropped COR_black_logo.tif\cropped COR_black_logo.tif

NO.	DESCRIPTION	DATE	BY

BENCH MARK ELEV. SEE NOTES

THE VERTICAL DATUM OF THIS MAPPING IS BASED ON THE CITY OF ROSEVILLE BENCHMARKS 65, 66, 85, AND 90, ADJUSTED TO NAVD88 BY ADDING A PROJECT FACTOR OF +2.16 FEET.

FIELD BOOK CITY# 400164

SCALE
HORIZ. _____
VERT. _____

CITY OF ROSEVILLE CALIFORNIA

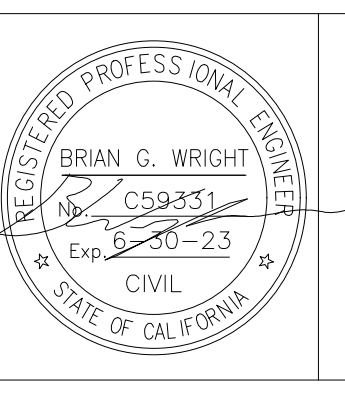
PSOMAS

1075 Creekside Ridge Way, Suite 200 Roseville, CA 95678 (916) 788-8122

DESIGNED BY: MEGAN BUCHE DATE 9/2021

CHECKED BY: BRIAN WRIGHT DATE 9/2021

DRAWN BY: CHARUNI KURUMBALAPITIYA DATE 9/2021

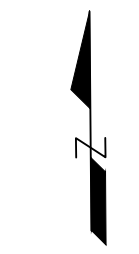
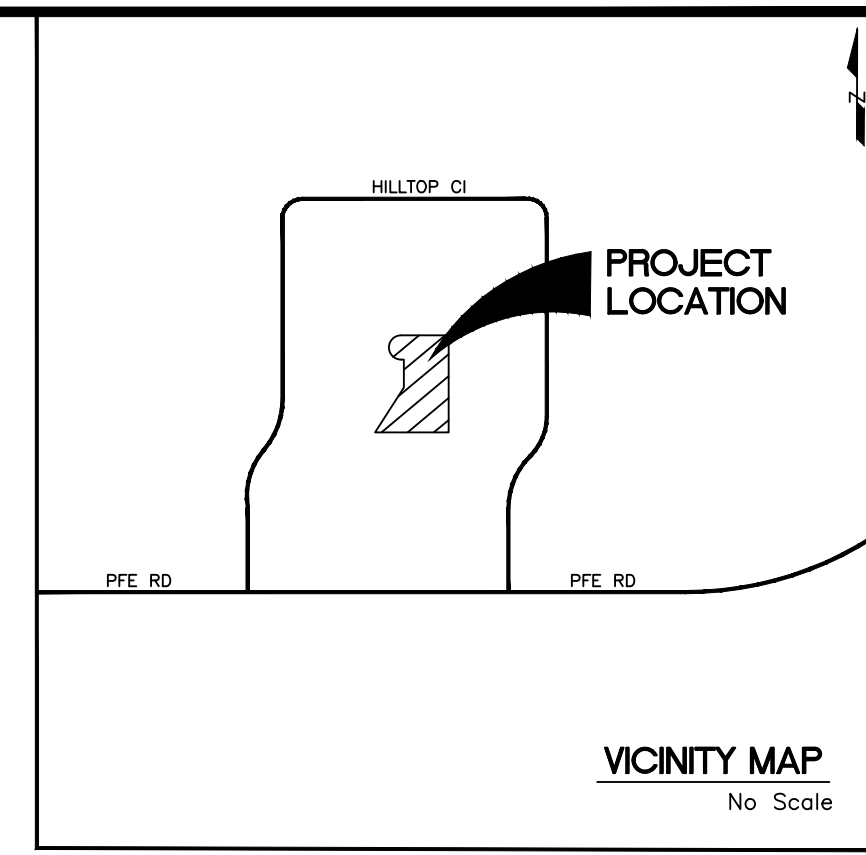
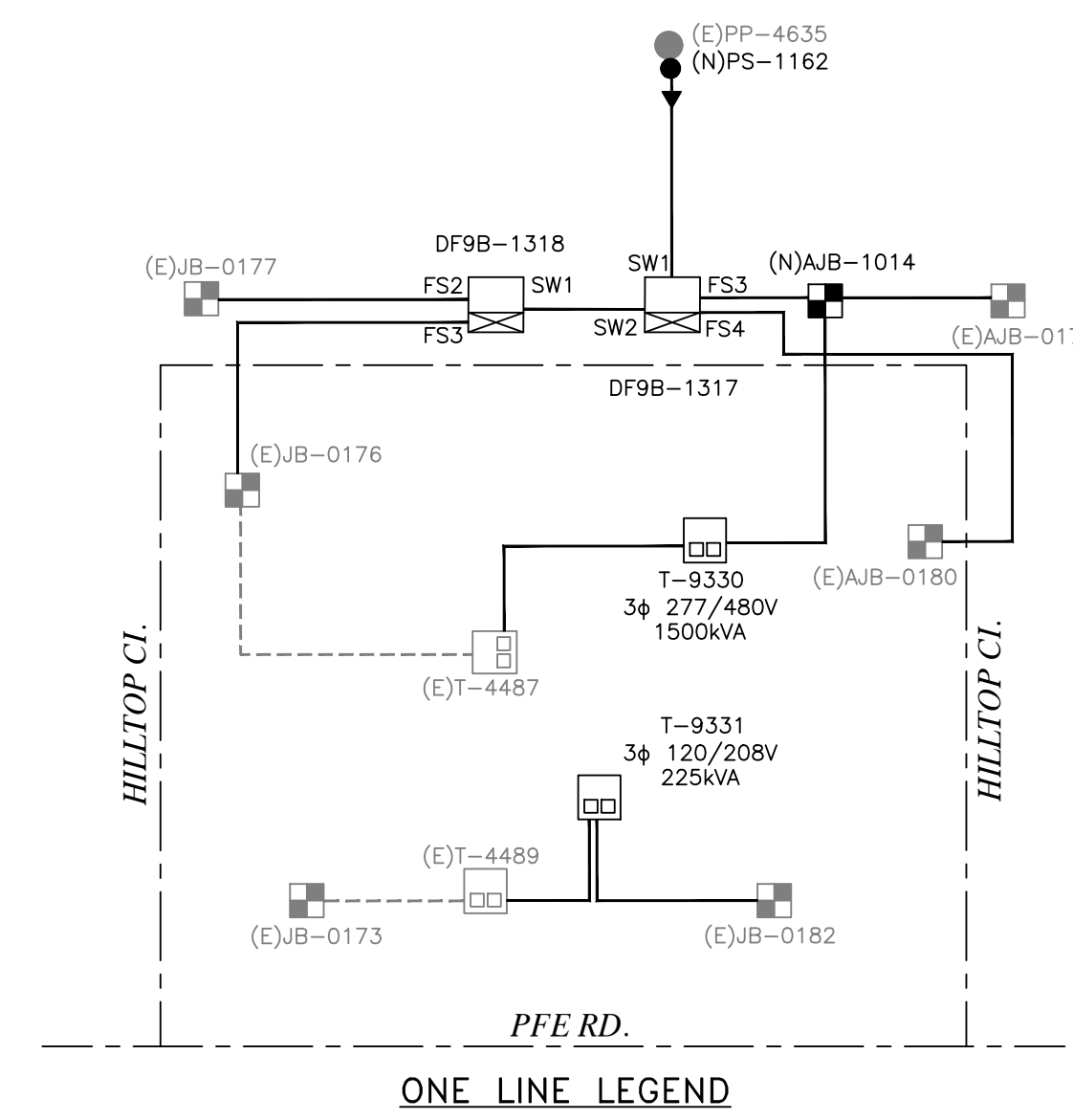
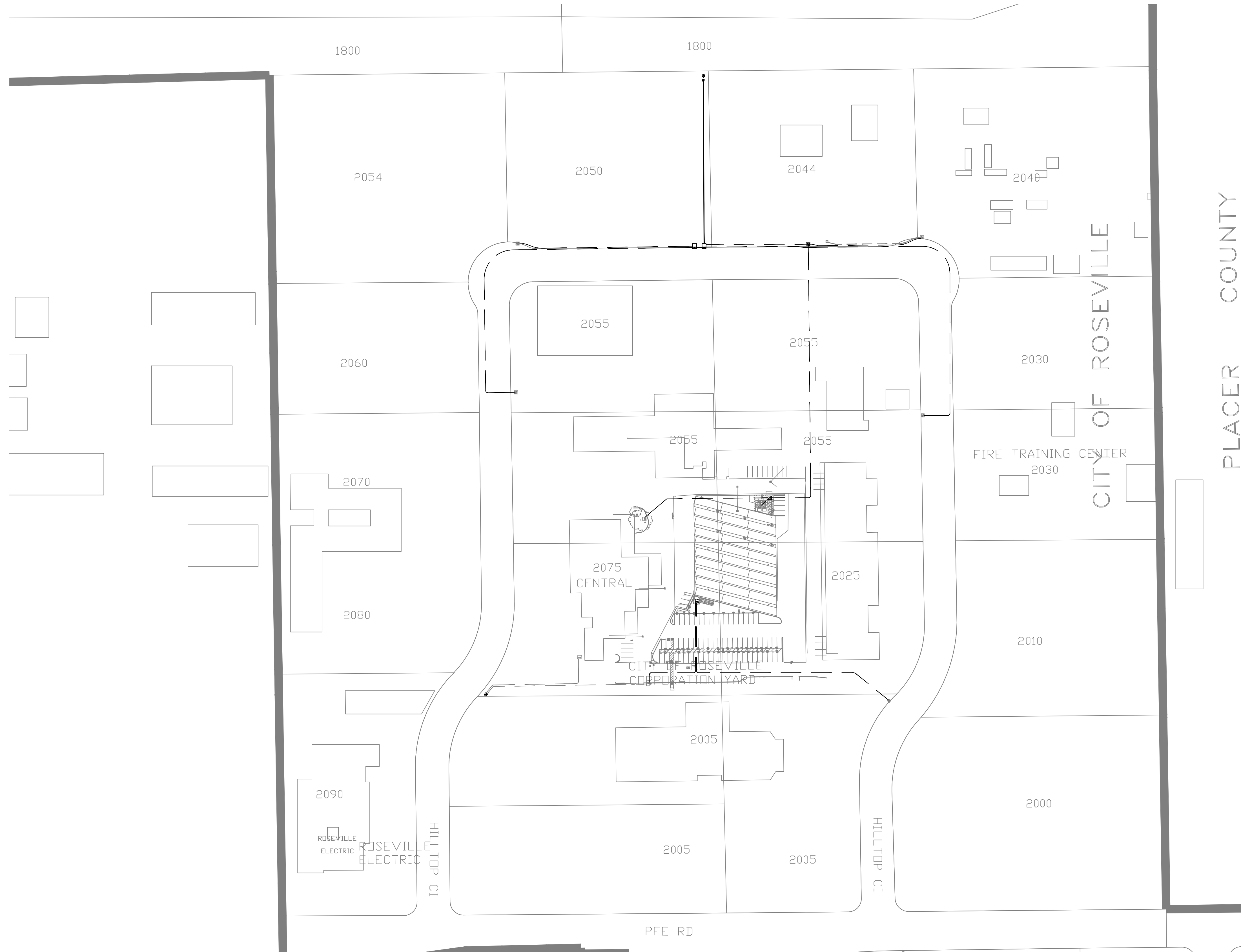


CITY OF ROSEVILLE CORPORATION YARD
ZERO EMISSION BUS DEPOT PROJECT
IRRIGATION DETAILS

SHEET 44 OF 47

CITY OF ROSEVILLE CORPORATION YARD ZERO EMISSION BUS DEPOT

PLAN FOR ELECTRIC UTILITY IMPROVEMENTS



- LEGEND:**
- PADMOUNT 3 ϕ TRANSFORMER 45KVA TO 500KVA (78"X78")
 - CONCRETE PAD VAULT
 - PADMOUNT 1 ϕ TRANSFORMER 167KVA AND BELOW (48"X54")
 - ABOVE GROUND 3 ϕ JUNCTION BOX
 - BELOW GROUND 3 ϕ JUNCTION BOX
 - SEE CORRESPONDING TRENCH DETAIL
 - 2-6" W/3-#1100MCM AL. (OR AS NOTED)
 - 1-4" W/3-#1/0 PRI. URD CABLE
 - EXISTING CONDUIT (AS NOTED)
 - CONCRETE ENCASE $\frac{3}{8}$ " AGGREGATE CONCRETE MIX, 3" ON ALL SIDES OF CONDUITS

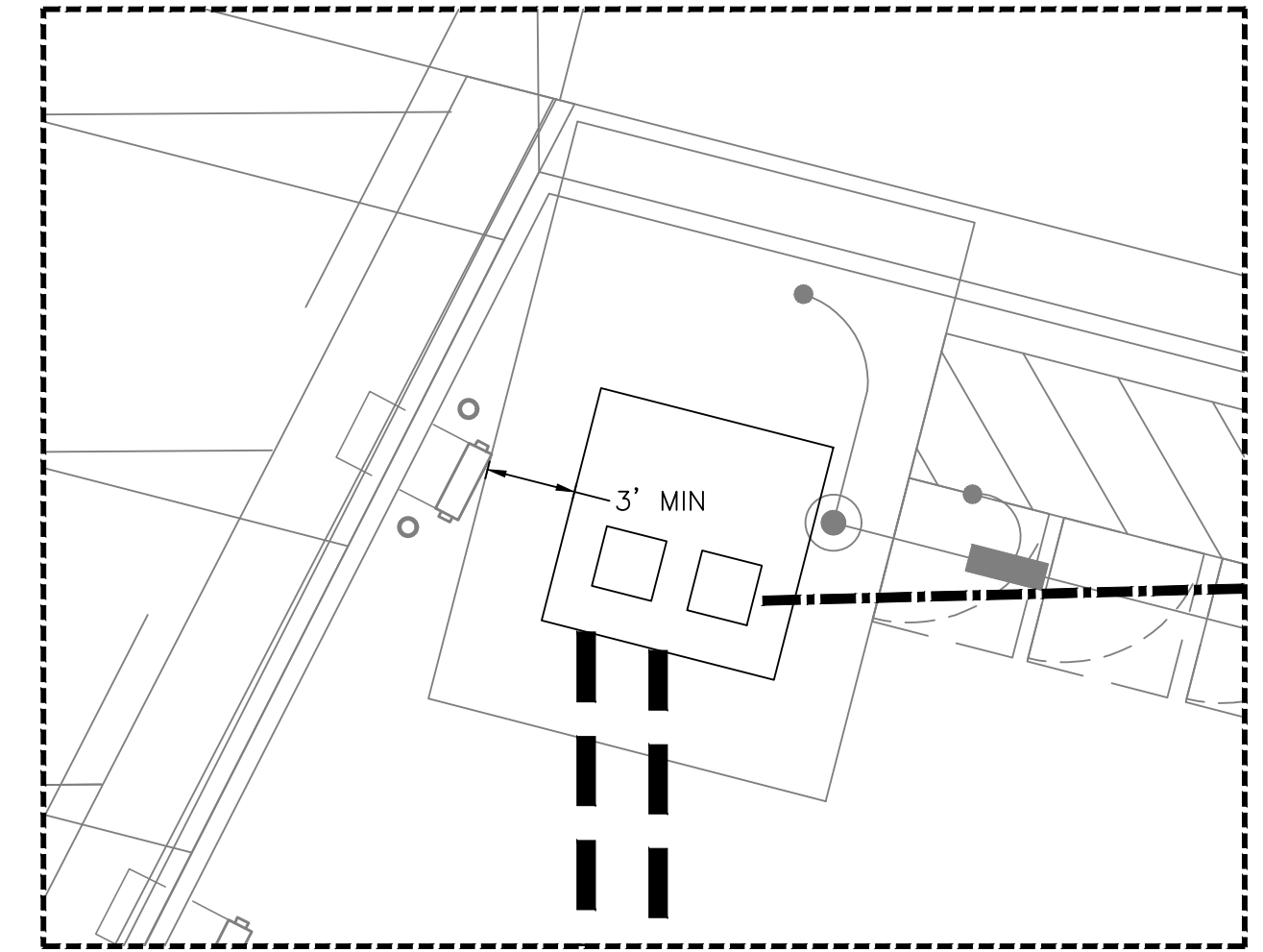
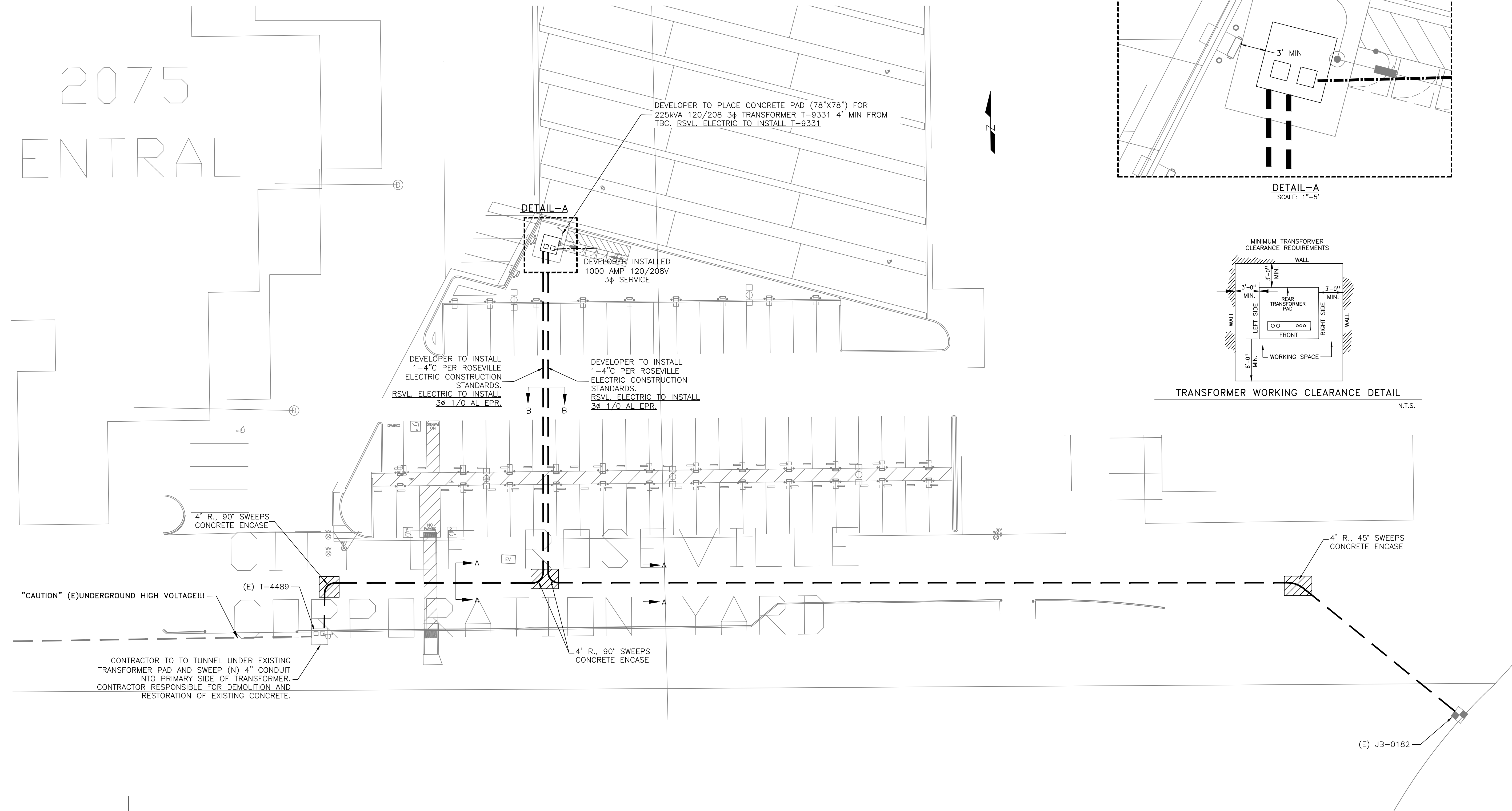
- NOTES:**
- "ROSEVILLE ELECTRIC'S SPECIFICATIONS FOR COMMERCIAL CONSTRUCTION" ARE A PART OF THESE CONSTRUCTION PLANS FOR THIS DESIGN AND SHALL BE ADHERED TO UNLESS OTHERWISE DIRECTED BY SPECIFIC COMMENTS OR DETAILS IN THESE PLANS.
 - A MINIMUM SEPARATION OF 5' WHEN PARALLELING AND BY AT LEAST 6" WHEN CROSSING IS REQUIRED BETWEEN ELECTRIC AND OTHER SUBSTRUCTURES (WATER, SEWER, STORM DRAIN, ETC.). THE CROSSING SEPARATION MAY BE REDUCED TO 3" WHEN ELECTRIC CONDUITS ARE CONCRETE ENCASED AND APPROVED BY THE ELECTRIC DEPARTMENT INSPECTOR.
 - A MINIMUM OF 5' WHEN PARALLELING AND 12" WHEN CROSSING PG&E GAS TRANSMISSION LINES.
 - A MINIMUM 12" SEPARATION BETWEEN ELECTRIC, TELEPHONE, GAS AND CABLE T.V. IS REQUIRED. THIS SEPARATION MAY NOT BE REDUCED UNLESS SPECIFICALLY APPROVED IN EACH INSTANCE BY THE UTILITIES INVOLVED.
 - THE CONTRACTOR TO PAY SPECIAL ATTENTION TO CROSSINGS WITH WATER MAINS, SANITARY SEWER, DRAIN PIPES, AND ANY OTHER OBSTRUCTIONS. CONTRACTOR TO PROVIDE THE MINIMUM REQUIRED COVER FOR ALL UTILITIES WITH A SMOOTH TRANSITION OVER OR UNDER OBSTRUCTION AS DIRECTED AND APPROVED BY ALL UTILITIES INVOLVED. THE APPROACH AND DEPARTURE FOR AN OBSTRUCTION SHALL BEGIN AND END 100 LINEAL FEET AWAY FROM THE OBSTRUCTION.
 - TRENCH DETAILS SHOWN ON THESE PLANS ARE FOR ELECTRIC. IF OTHER UTILITIES REQUEST JOINT TRENCH OCCUPATION, THE TRENCH DIMENSIONS MAY BE MODIFIED. IT IS THE DEVELOPERS RESPONSIBILITY TO CO-ORDINATE SUCH REQUESTS TO THE SATISFACTION OF ALL THE UTILITIES INVOLVED.
 - CONTRACTOR SHALL INSURE THAT ALL TRENCHING AND INSTALLATION OF ELECTRIC FACILITIES CONFORMS TO CAL. O.S.H.A. AND THE STATE OF CALIFORNIA P.U.C. GENERAL ORDER NO. 128 REQUIREMENTS.
 - THE CITY OF ROSEVILLE IS A MEMBER OF THE UNDERGROUND SERVICE ALERT SYSTEM, CALL BEFORE YOU DIG!! U.S.A PHONE #800-642-2444. ROSEVILLE ELECTRIC DISPATCH PHONE #916-774-5620.



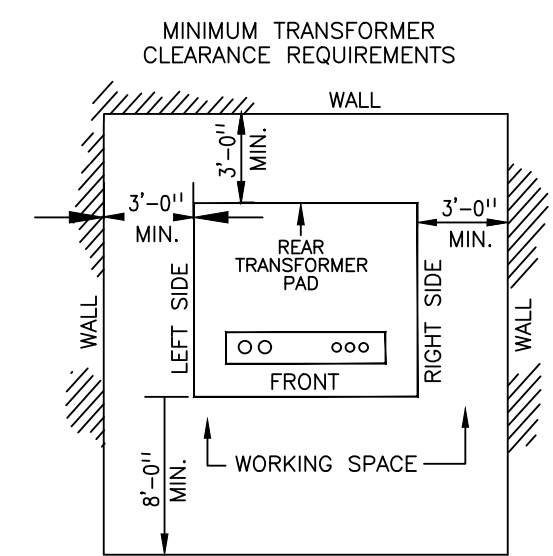
REV	BY	DATE	DESCRIPTION	APPR.

MAXIMO NO.	2046015
ACCOUNT NO.	6001-6587-84701-290001-01070
TITLE	CITY OF ROSEVILLE ZERO EMISSION BUS DEPOT 2025 HILLTOP CI
DRAWING NO.	120-1556
SCALE	1"=20'
DATE	7/28/21
ENG. J. WILCOX	APPR. [Signature]
DR. J. WILCOX	DATE: 7/28/21

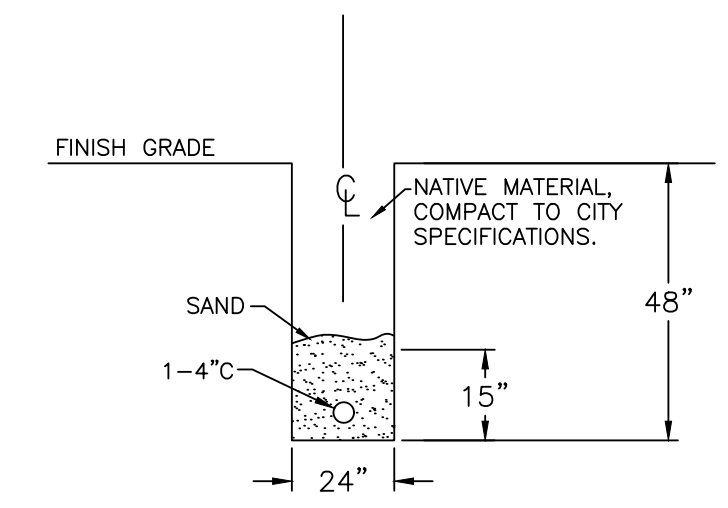
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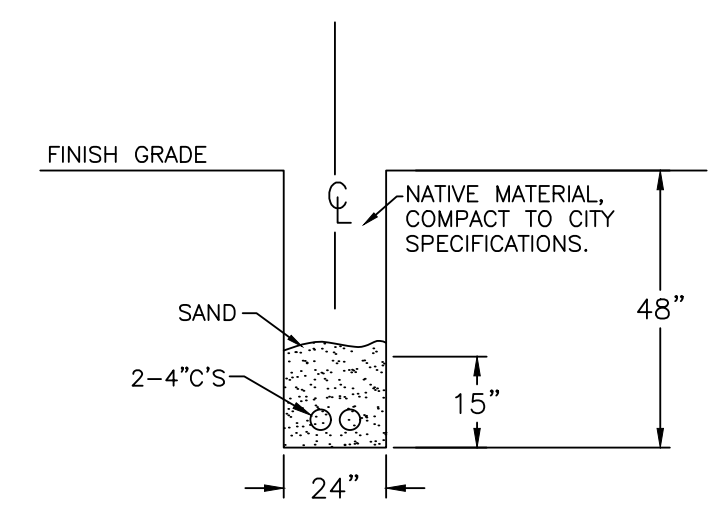
DETAIL-A
SCALE: 1"=5"



TRANSFORMER WORKING CLEARANCE DETAIL
N.T.S.



TRENCH DETAIL A-A
N.T.S.

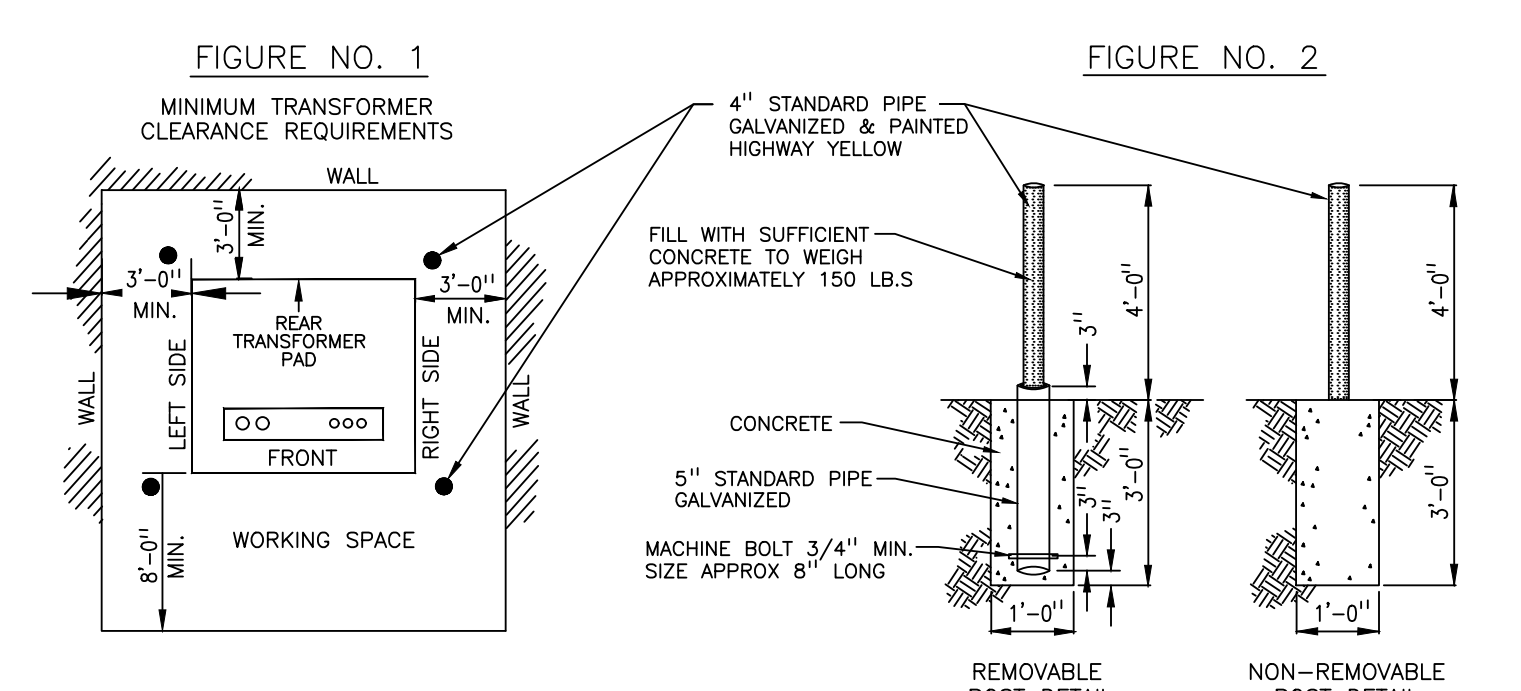
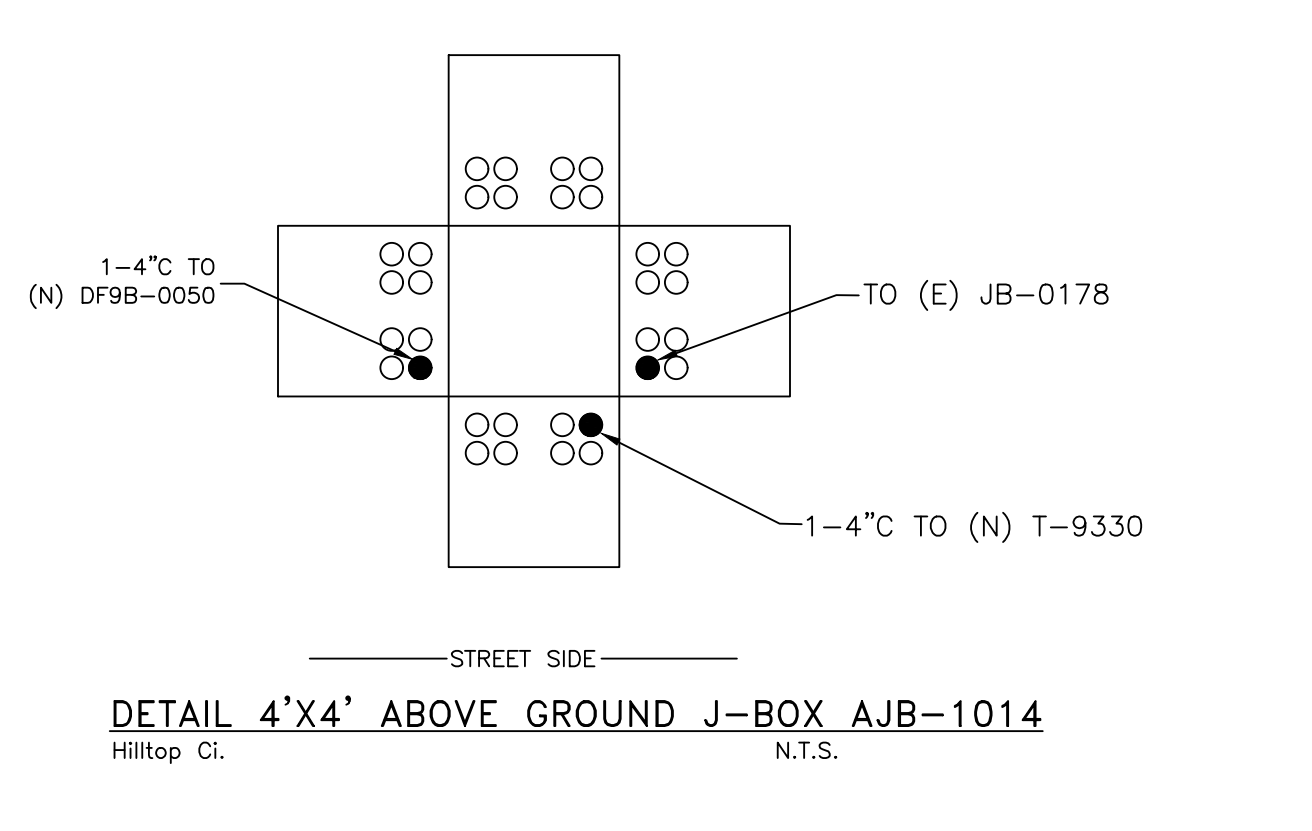
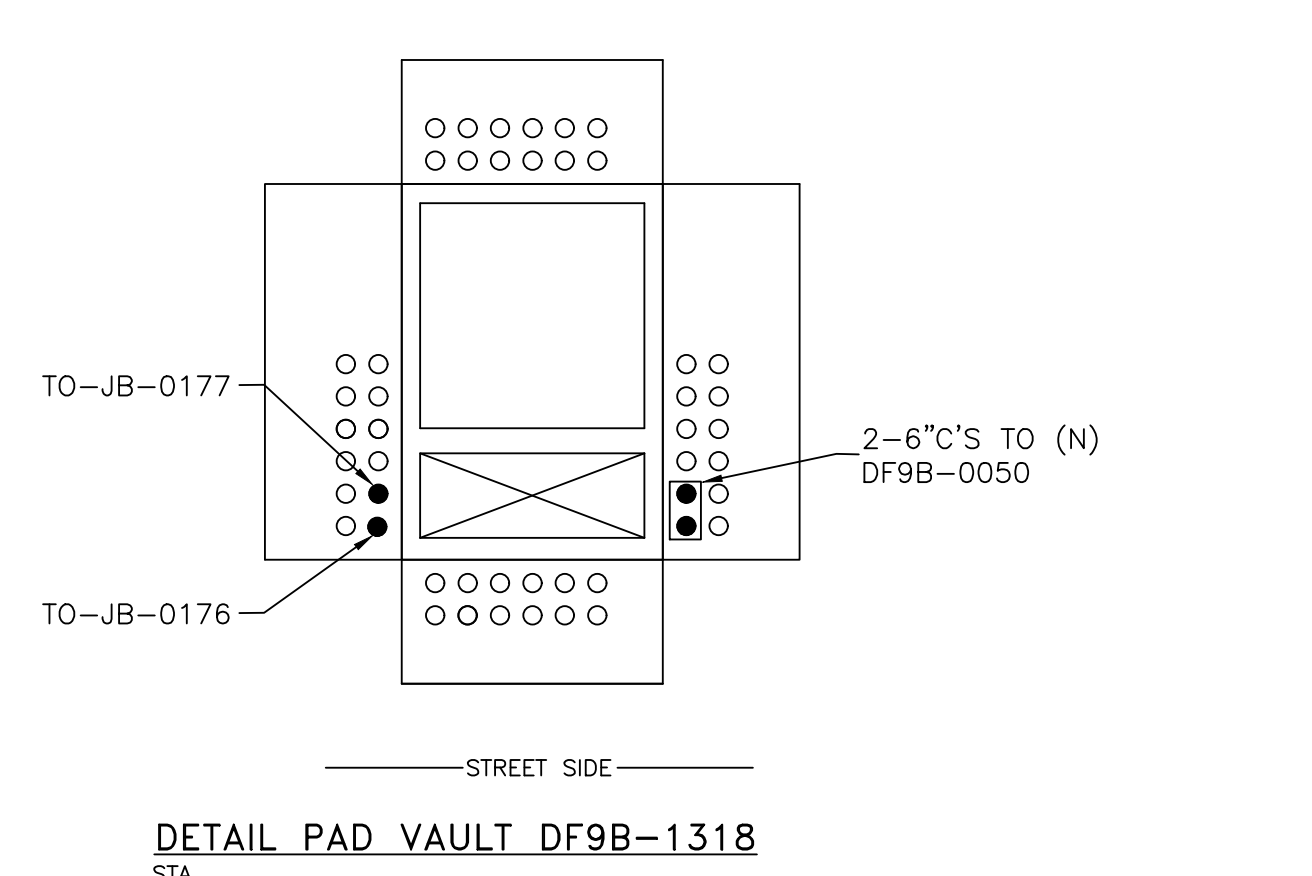
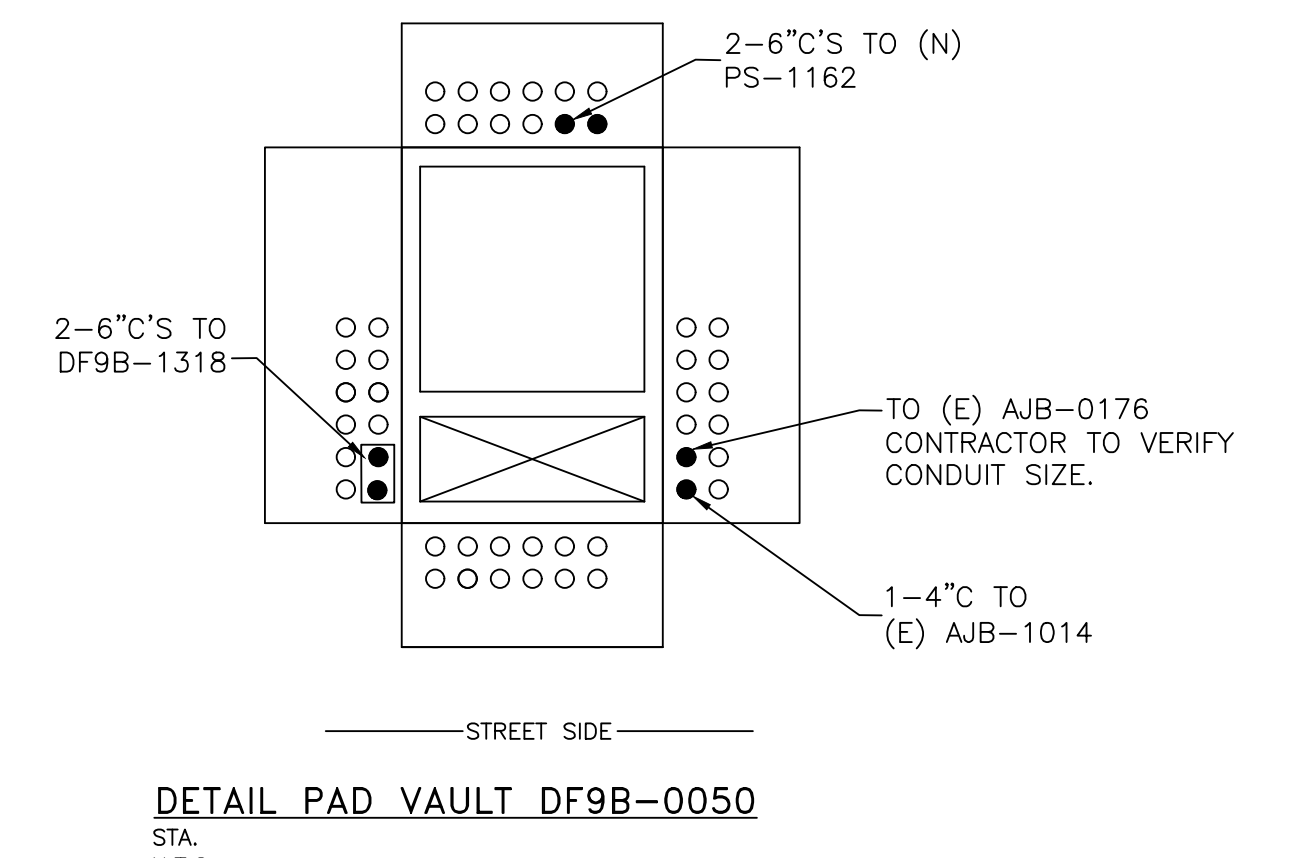
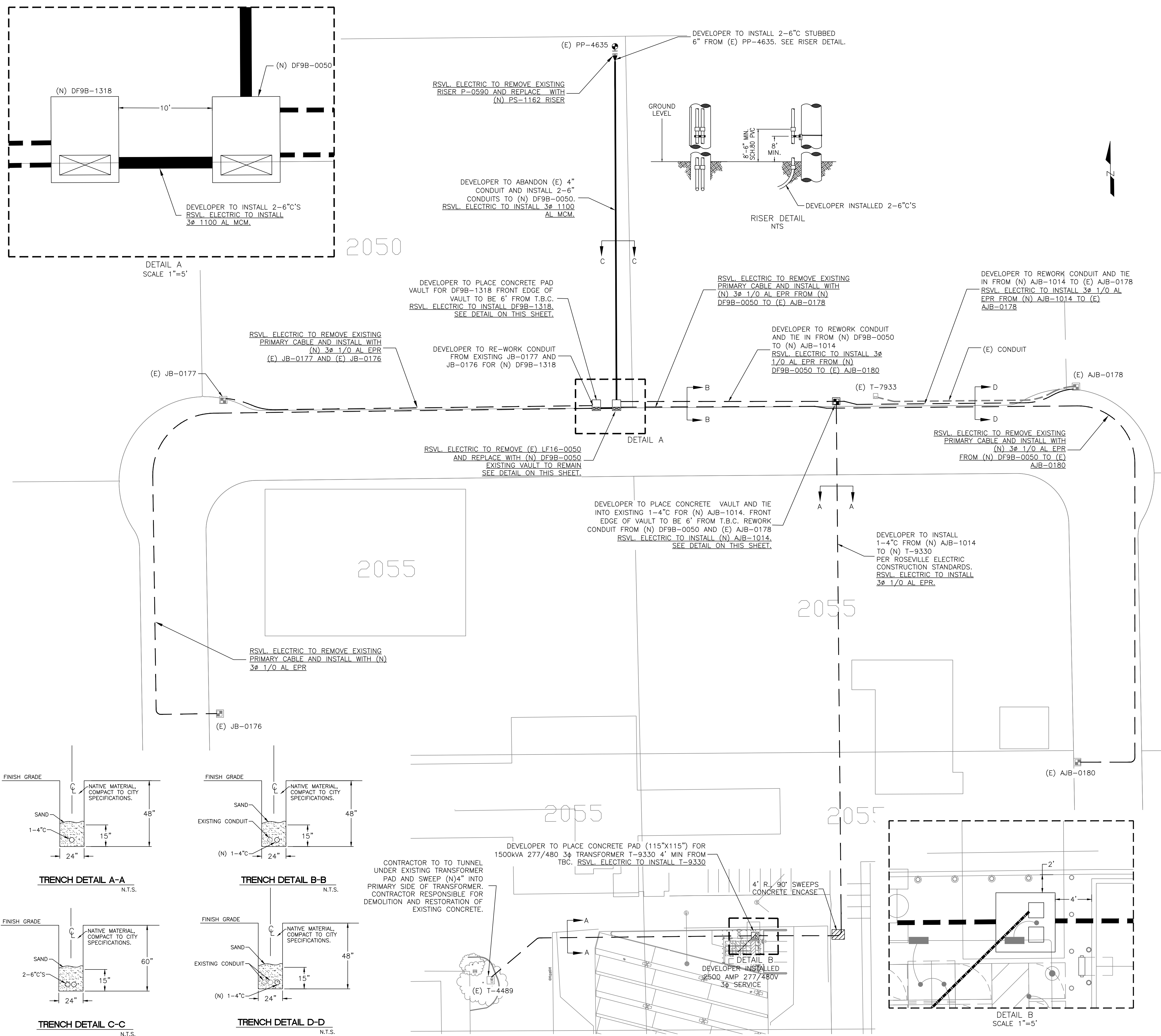


TRENCH DETAIL B-B
N.T.S.



REV	BY	DATE	DESCRIPTION	APPR.

MAXIMO NO.	2046015
ACCOUNT NO.	6001-6587-84701-290001-01070
TITLE	CITY OF ROSEVILLE ZERO EMISSION BUS DEPOT 2025 HILLTOP CI
ENGINEER	ENG. J. WILCOX
APPROVER	APPR. [Signature]
SCALE	SCALE: 1"=20'
DATE	DATE: 7/28/21
DRAWING NO.	120-1556
SHEET	SHEET 2 OF 3



- NOTES:
- The concrete pad should be located so that its associated transformer will be three feet minimum from the side of any building wall. If the wall is fireproof, the minimum clearance can be reduced to two feet. At least eight feet of clear space shall be provided in front of pad to allow complete opening of transformer cabinet doors and allow City personnel sufficient working room for Hot Stick work. Figure No. 1, shows the preferred location of a transformer pad with reference to other construction.
 - A minimum of 4' from top back of curb to edge of transformer pad must be maintained. If the 4' dimension cannot be obtained, posts per figure 2 must be installed. The number, type and placement of posts required will be determined by the Roseville Electric construction print or field inspector. In no case shall the clearance be less than 2' with parking barriers.

TRANSFORMER WORKING CLEARANCE DETAIL

REV BY	DATE	DESCRIPTION	APPR.
CITY OF ROSEVILLE ZERO EMISSION BUS DEPOT 2025 HILLTOP CI			MAXIMO NO. 2046015
TITLE			ACCOUNT NO. 6001-6587-84701-290001-01070
ENG. J. WILCOX	APPR. _____	SCALE: 1"=40'	DRAWING NO. 120-1556
DR. J. WILCOX	DATE: 7/28/21		SHEET 3 OF 3

