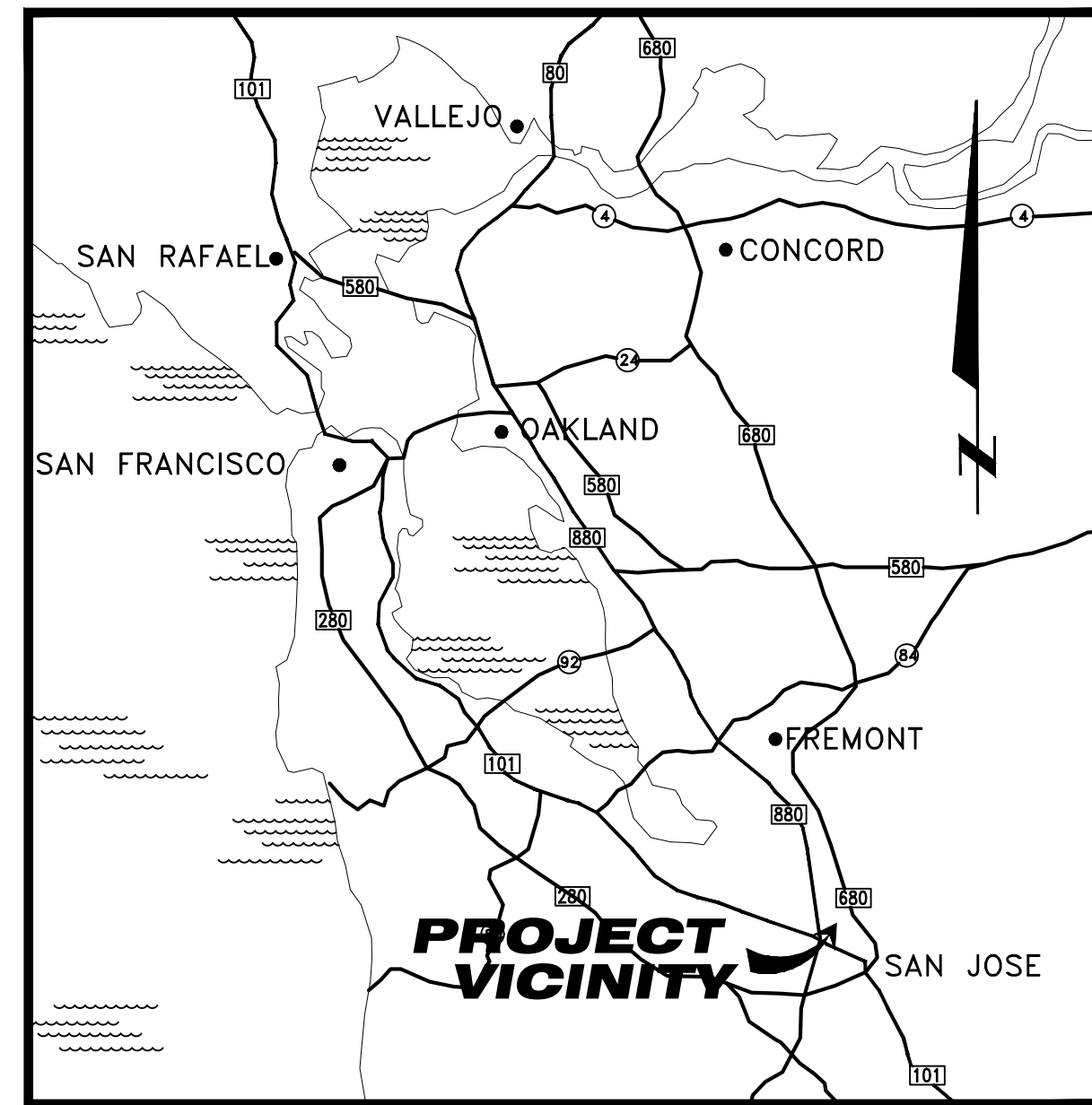
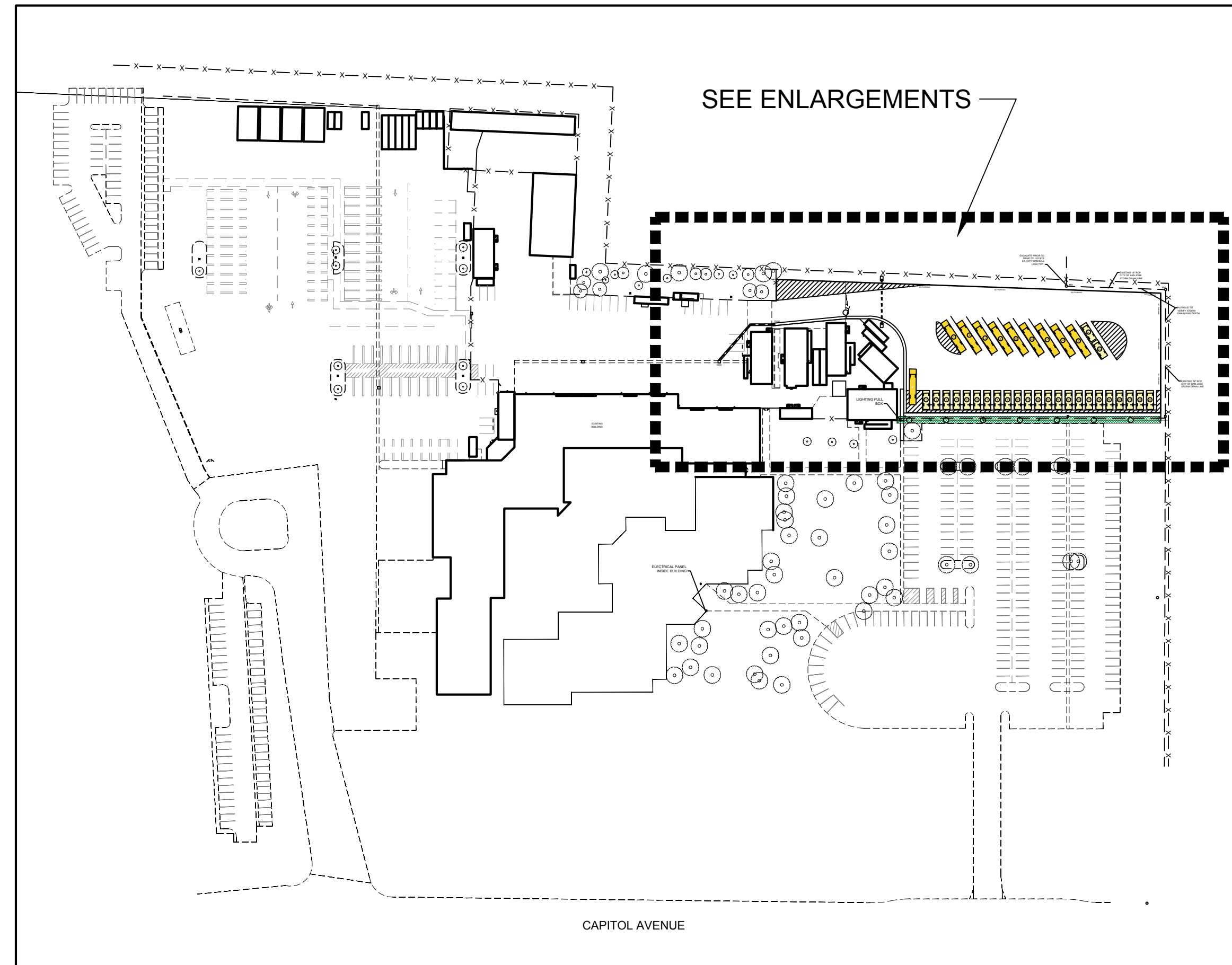


# CONSTRUCTION PLANS FOR EAST SIDE UNION HIGH SCHOOL DISTRICT 2017 TRANSPORTATION YARD RELOCATION PROJECT



**LOCATION MAP**  
NTS



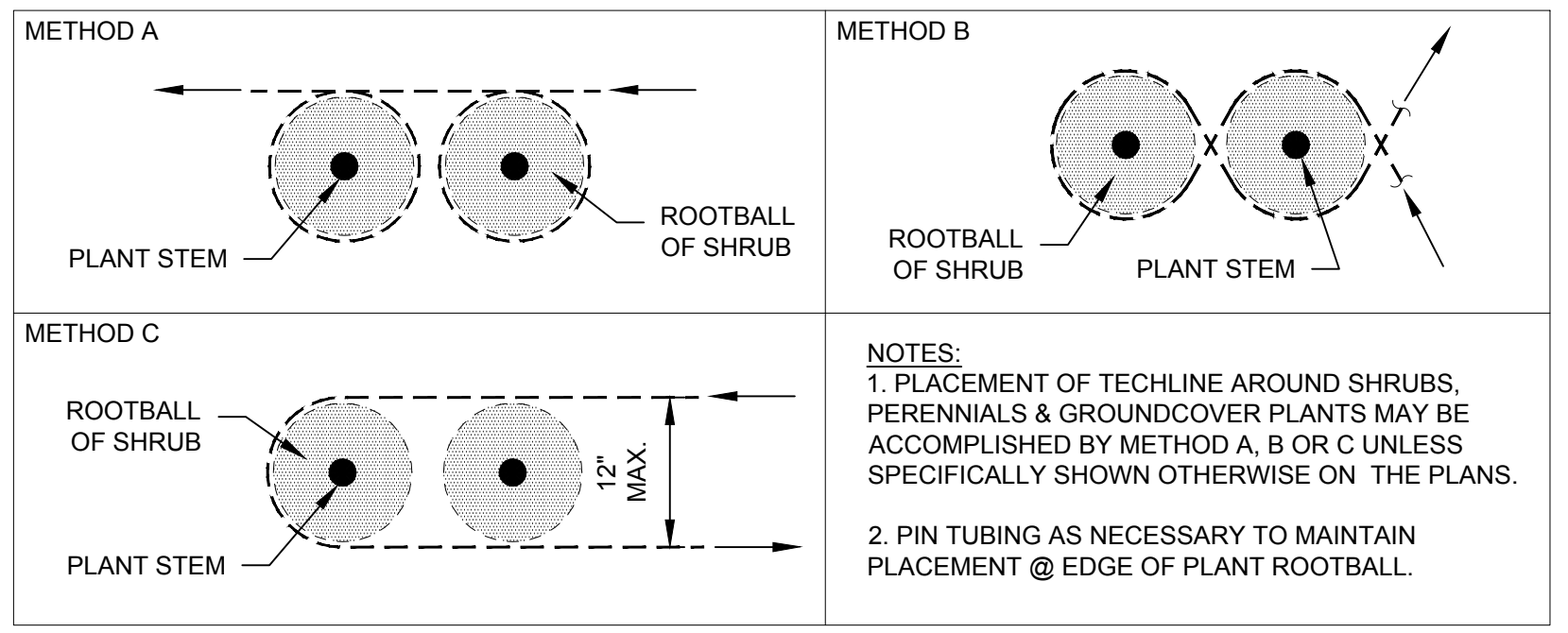
**SITE PLAN**  
1" = 120'

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C6	DETAIL PLAN
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E1.1	PARKING LOT LIGHTING SITE PLAN
1 OF 1	LUMINAIRE SCHEDULE
L1	PLANTING IMPROVEMENT PLAN
L2	IRRIGATION IMPROVEMENT PLAN
L3	LANDSCAPING DETAILS

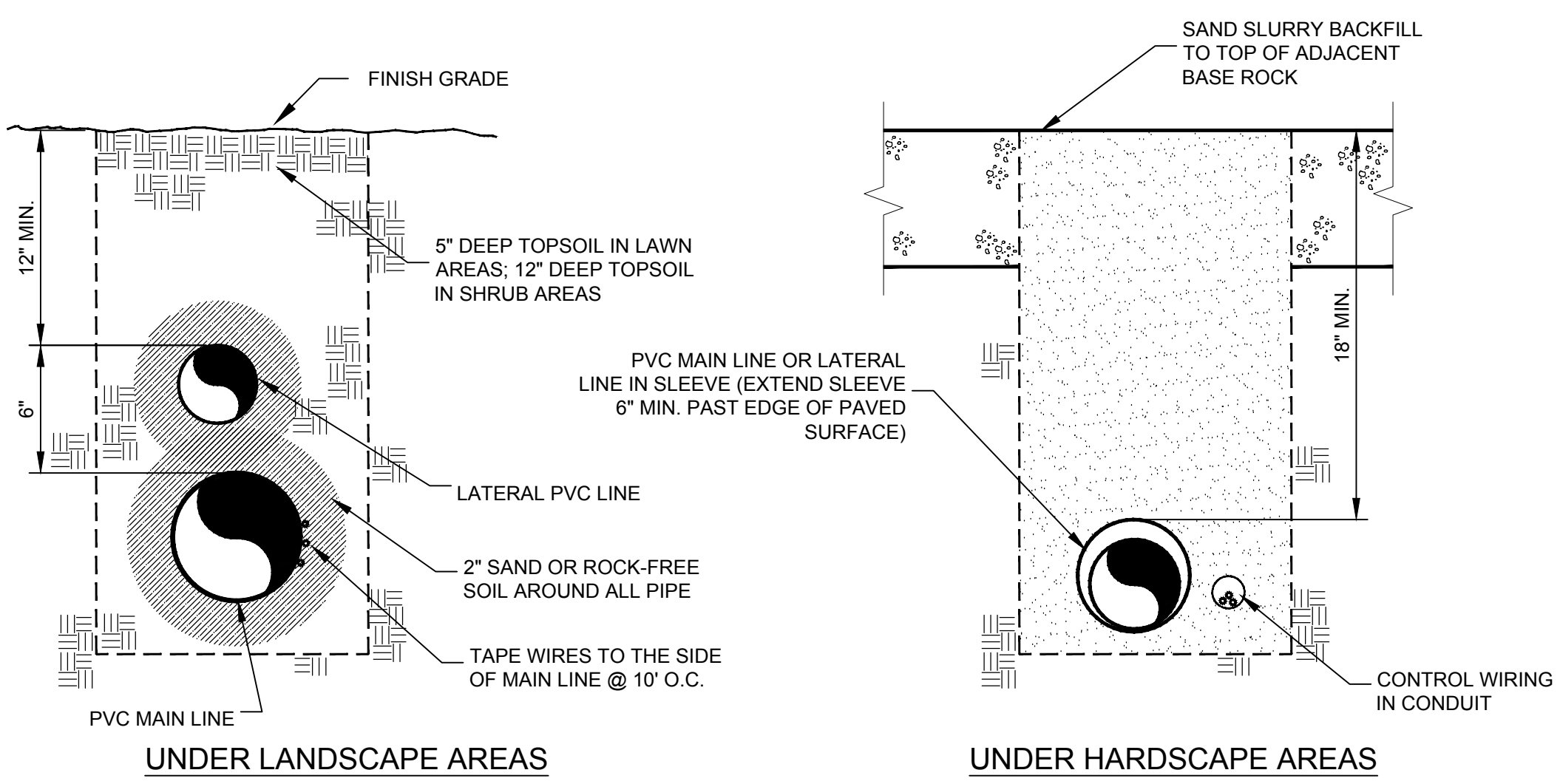
PROJECT ENGINEER: WILLIAM J. LONG  
 LICENSE: CA 047552    EXP.: 12-31-17  
 PLAN STATUS:  
**FINAL PLANS**  
 FOR CONSTRUCTION

**Pavement Engineering Inc.**  
*Civil Engineers • Materials Testing*  
*Specializing in Pavement Rehabilitation*  
 Petaluma Office (707) 769-5330  
 Redding Office (530) 224-4535  
 San Luis Obispo Office (805) 781-2265

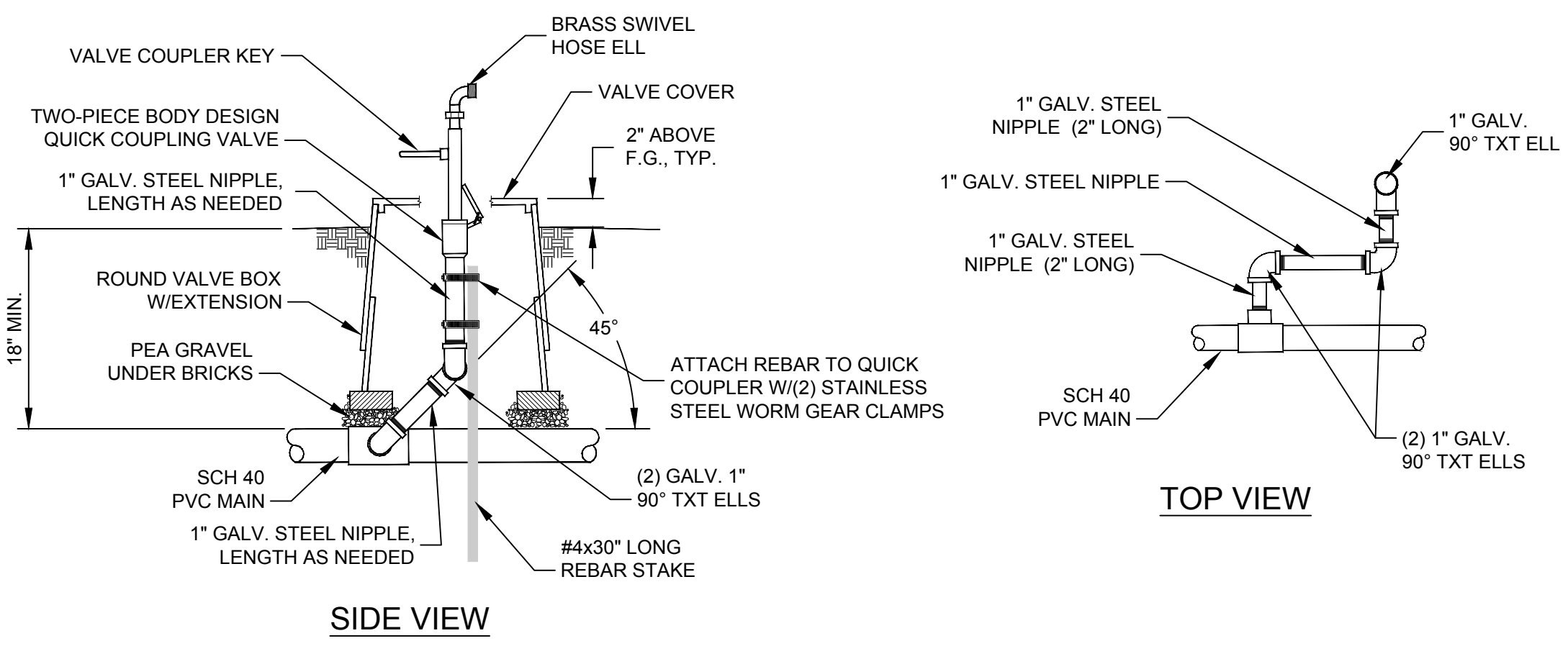
EAST SIDE UNION HIGH SCHOOL DISTRICT  
 830 NORTH CAPITOL AVENUE    SAN JOSE, CA  
 SCALE: AS SHOWN    APPROVED BY:    DRAWN BY: BTR  
 DATE: JAN. 2017    REVISED:  
 2017 TRANSPORTATION YARD RELOCATION PROJECT  
 TITLE PAGE  
 EAST SIDE UNION HIGH SCHOOL DISTRICT    DRAWING NUMBER 160290-01    C1



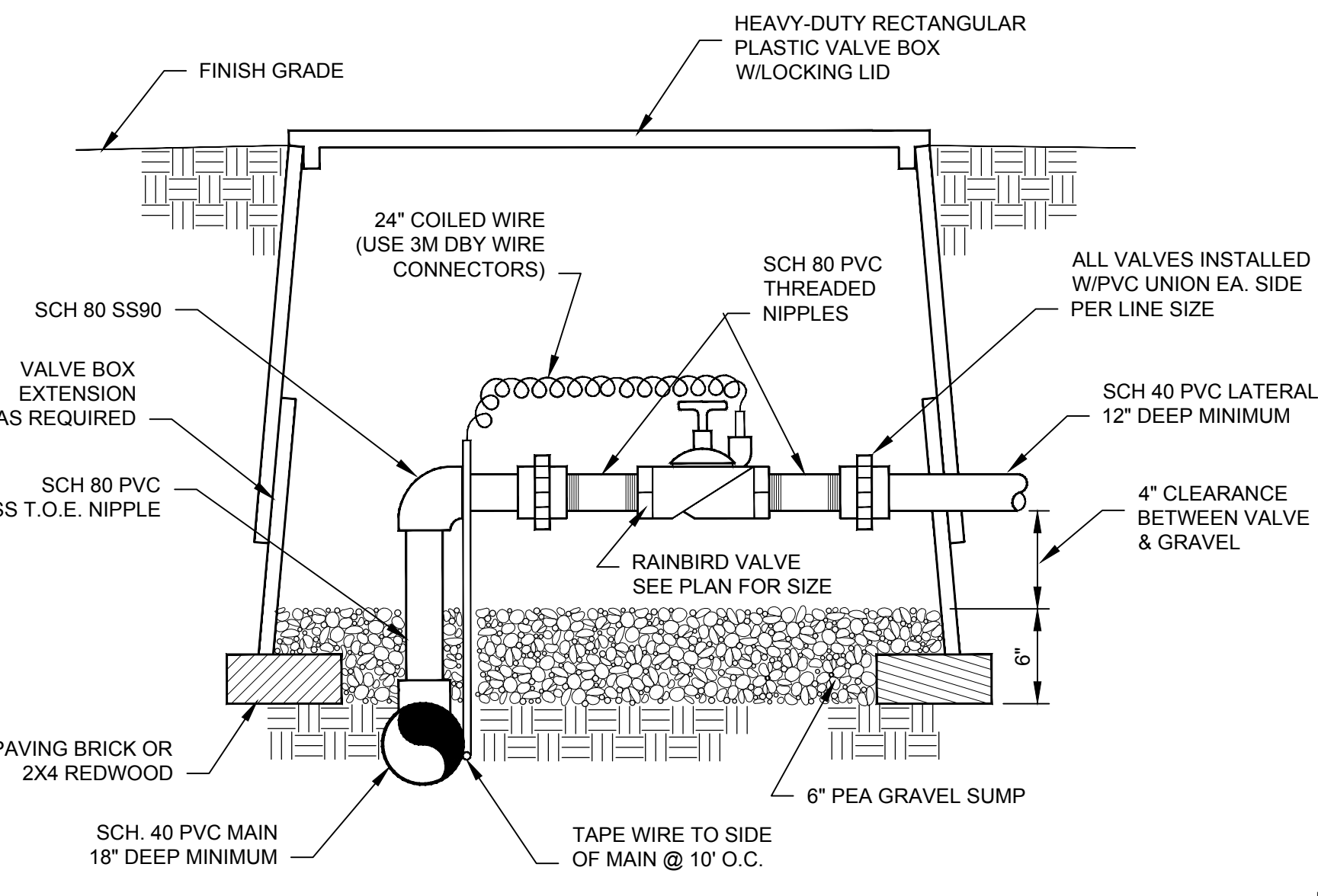
TECHLINE PLACEMENT: SINGLE LOOP  
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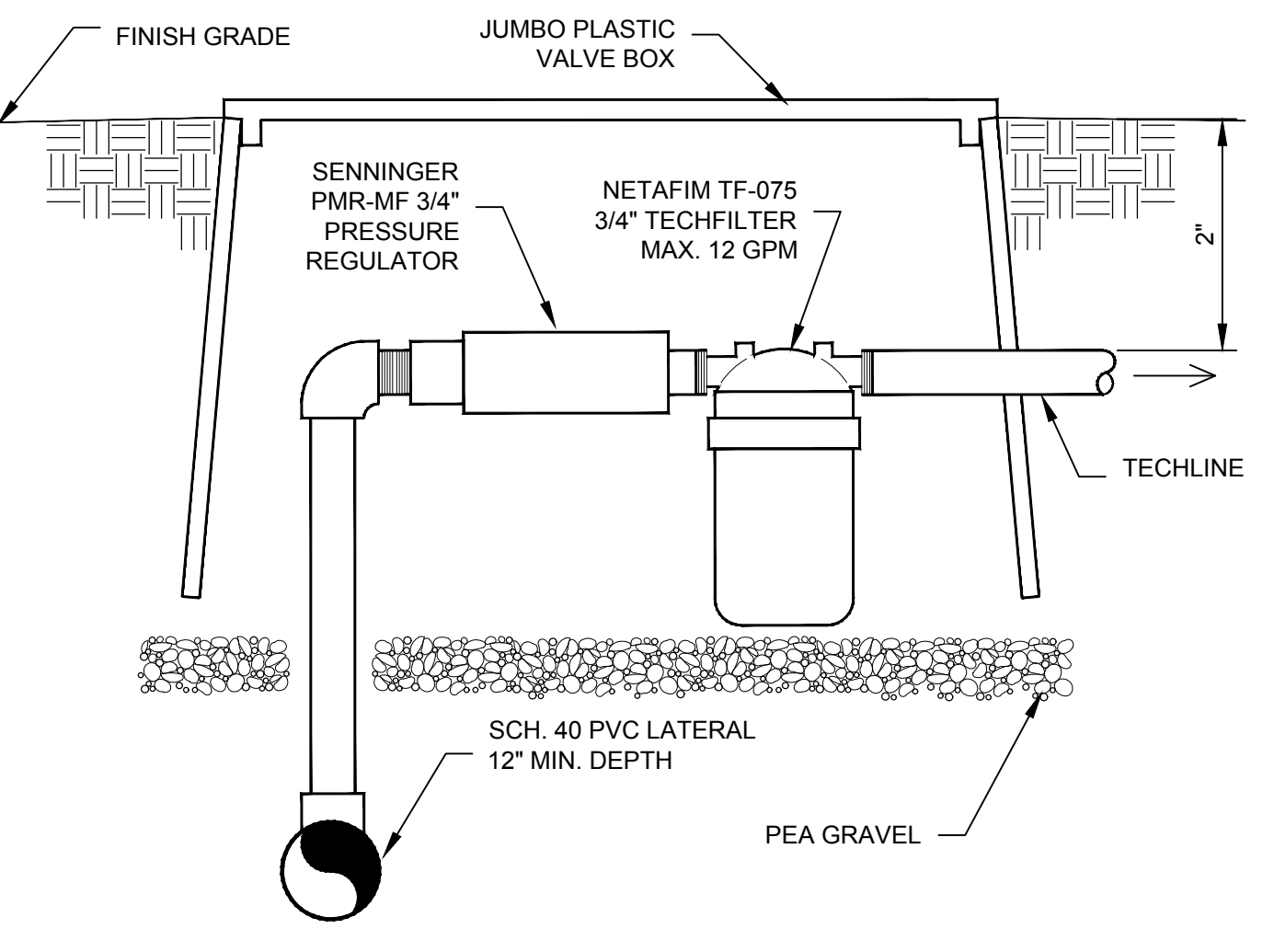
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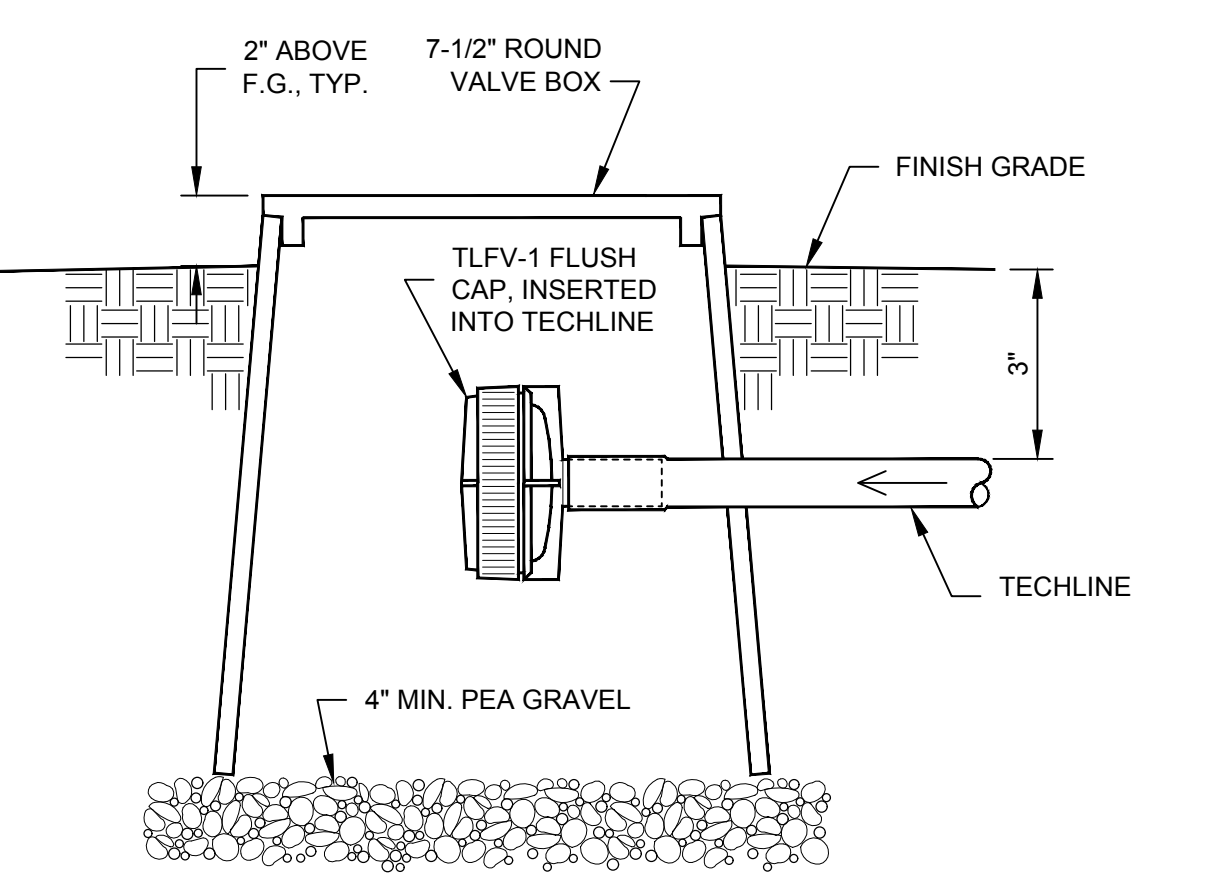
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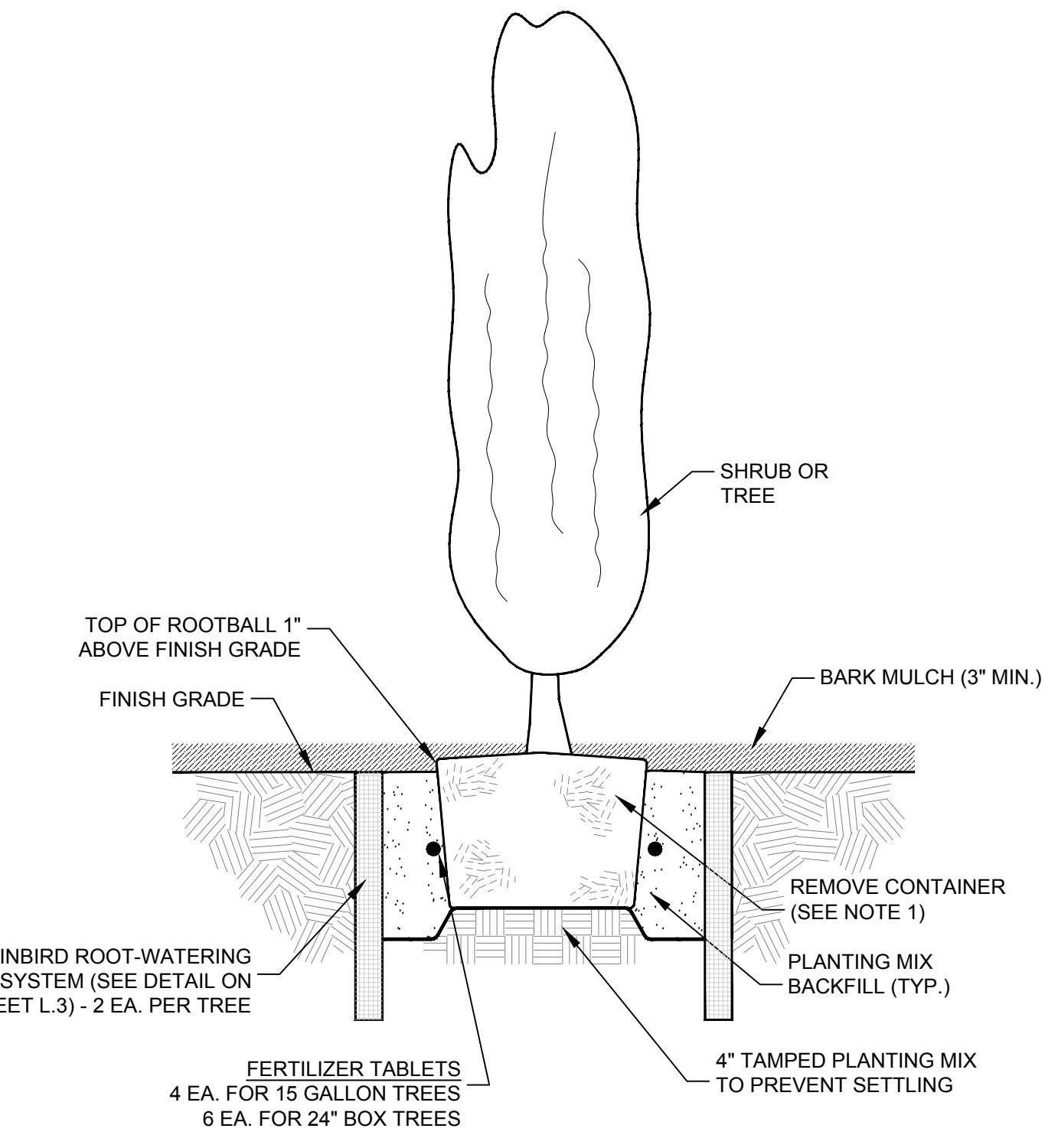
AUTOMATIC CONTROL VALVE DETAIL  
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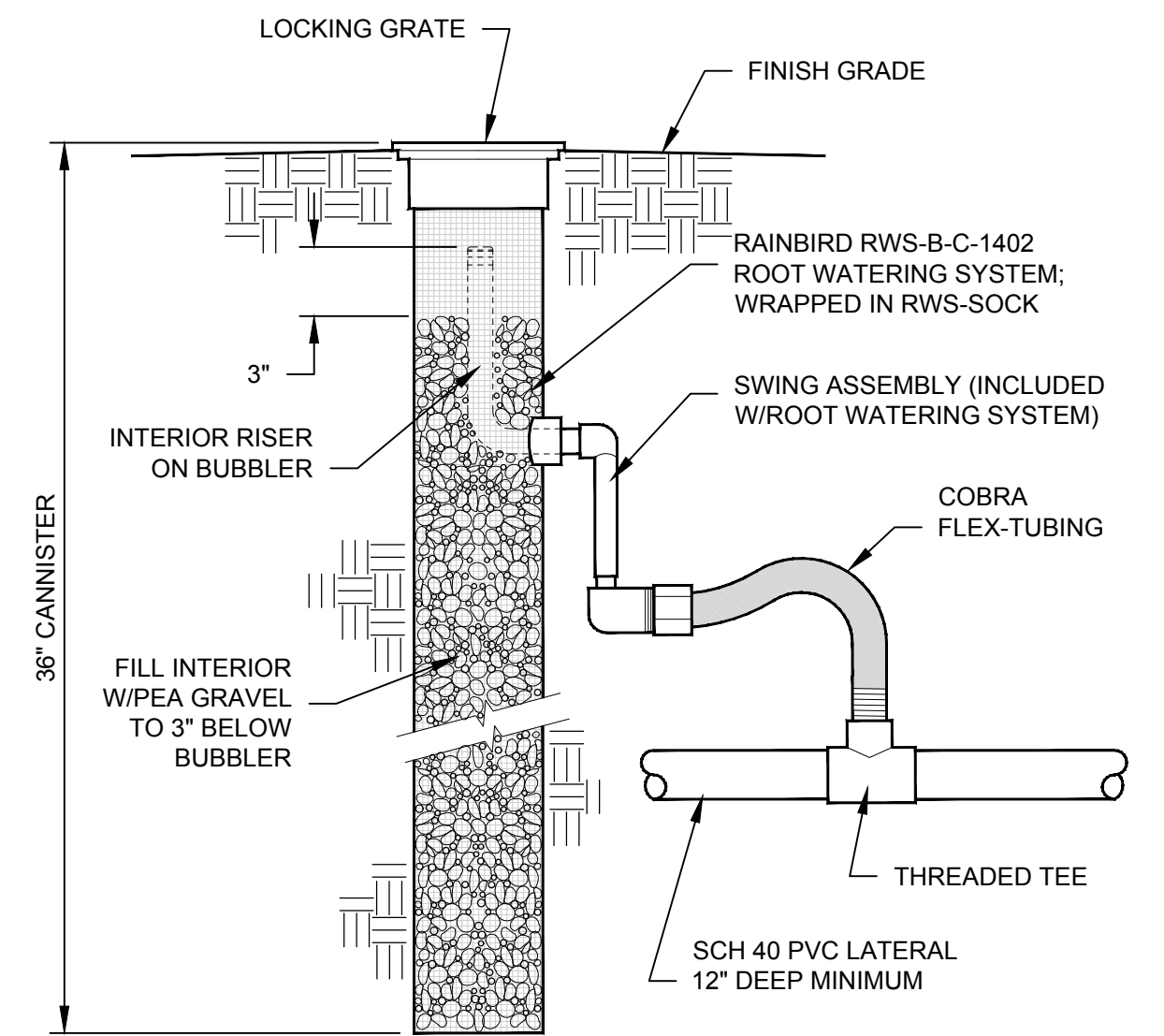
NETAFIM CONNECTION DETAIL  
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NETAFIM FLUSHING CAP DETAIL  
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TYPICAL SHRUB OR TREE PLANTING DETAIL  
NTS












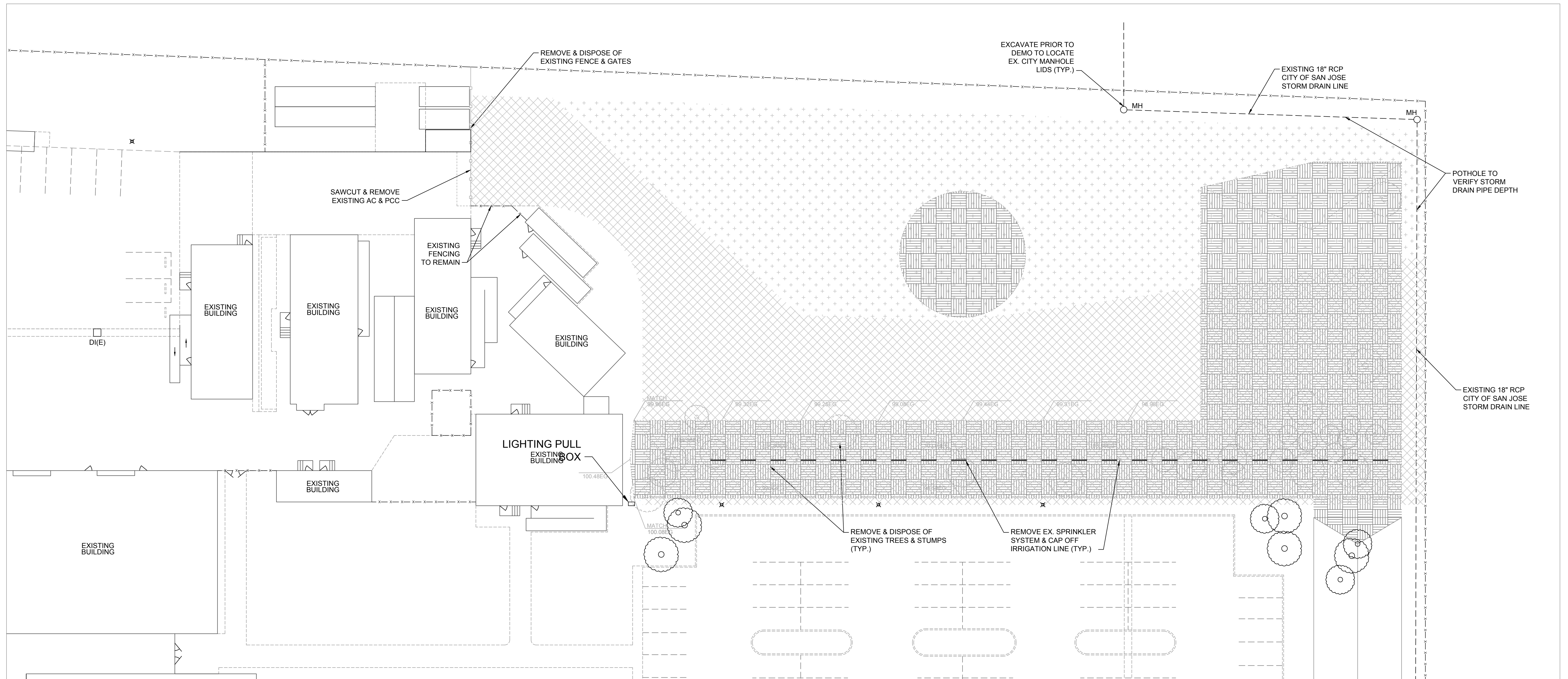
DEEP ROOT-WATERING SYSTEM  
NTS

NOTES:  
 IF SHRUB OR TREE IS BOXED, REMOVE BOX BOTTOM PRIOR TO POSITIONING IN HOLE, AND REMAINDER OF BOX PRIOR TO BACKFILL. IF PLANT IS BURLAPPED, REMOVE TOP 1/3 OF COVER. IF PLANT IS COVERED IN NON-BIODEGRADABLE MATERIAL, REMOVE COMPLETE COVERING PRIOR TO INSTALLATION. PROTECT ROOT BALL FROM DAMAGE DURING PLANTING & STAKING.  
 WATER THOROUGHLY SUBSEQUENT TO INSTALLATION.  
 REMOVE STAKES AND TIES (IF SPECIFIED) AT END OF GUARANTEE PERIOD.

<p>Pavement Engineering, Inc.        You can ride on our reputation        Corporate Office: 10160 Drive, Suite A        San Luis Obispo, CA 93407-6015        805-791-2985</p>			DESCRIPTION	APP
<p><b>EAST SIDE UNION HIGH SCHOOL DISTRICT</b>        830 N. CAPITOL AVENUE        SAN JOSE, CA</p>			DATE	
<p><b>2017 TRANSPORTATION YARD RELOCATION PROJECT</b>  <b>LANDSCAPING DETAILS</b></p>			REV	
			DATE	
			REV	
			DATE	
			REV	
<p>DRAWN BY: MPW        PROJECT NUMBER: 160290        SCALE: 1"= 20'        DATE: JAN. 2017        SHEET NUMBER:</p>				
<p><b>L3</b></p>				

**LEGEND**

-  CLEAR, GRUB & OFF HAUL SOIL BERM & DEBRIS
-  CUT & OFF HAUL
-  FILL WITH ON-SITE NATIVE SOIL
-  EXISTING TREES TO REMAIN
-  EXISTING TREES TO BE REMOVED & DISPOSED
-  EXISTING STUMPS TO BE REMOVED & DISPOSED
-  EXISTING IRRIGATION LINES & SPRINKLERS TO BE REMOVED & DISPOSED
-  EXISTING FENCING & GATE TO REMOVED & DISPOSED
-  EXISTING FENCING TO REMAIN




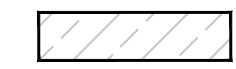

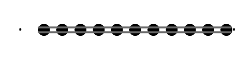




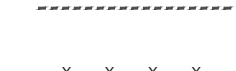
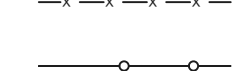
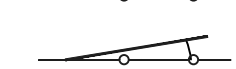







**ENLARGEMENT - DEMO**  
1" = 20'

PROJECT ENGINEER: WILLIAM J. LONG		 <b>Pavement Engineering Inc.</b> <i>Civil Engineers • Materials Testing Specializing in Pavement Rehabilitation</i>	EAST SIDE UNION HIGH SCHOOL DISTRICT 830 NORTH CAPITOL AVENUE SAN JOSE, CA	
LICENSE: CA 047552	EXP.: 12-31-17		SCALE: 1" = 20'	APPROVED BY:
PLAN STATUS: <b>FINAL PLANS FOR CONSTRUCTION</b>		DATE: JAN. 2017	REVISSED:	
Petaluma Office (707) 769-5330 Redding Office (530) 224-4539 San Luis Obispo Office (805) 781-2265		<b>2017 TRANSPORTATION YARD RELOCATION PROJECT DEMO PLAN</b>		
		EAST SIDE UNION HIGH SCHOOL DISTRICT		DRAWING NUMBER 160290-01 C2

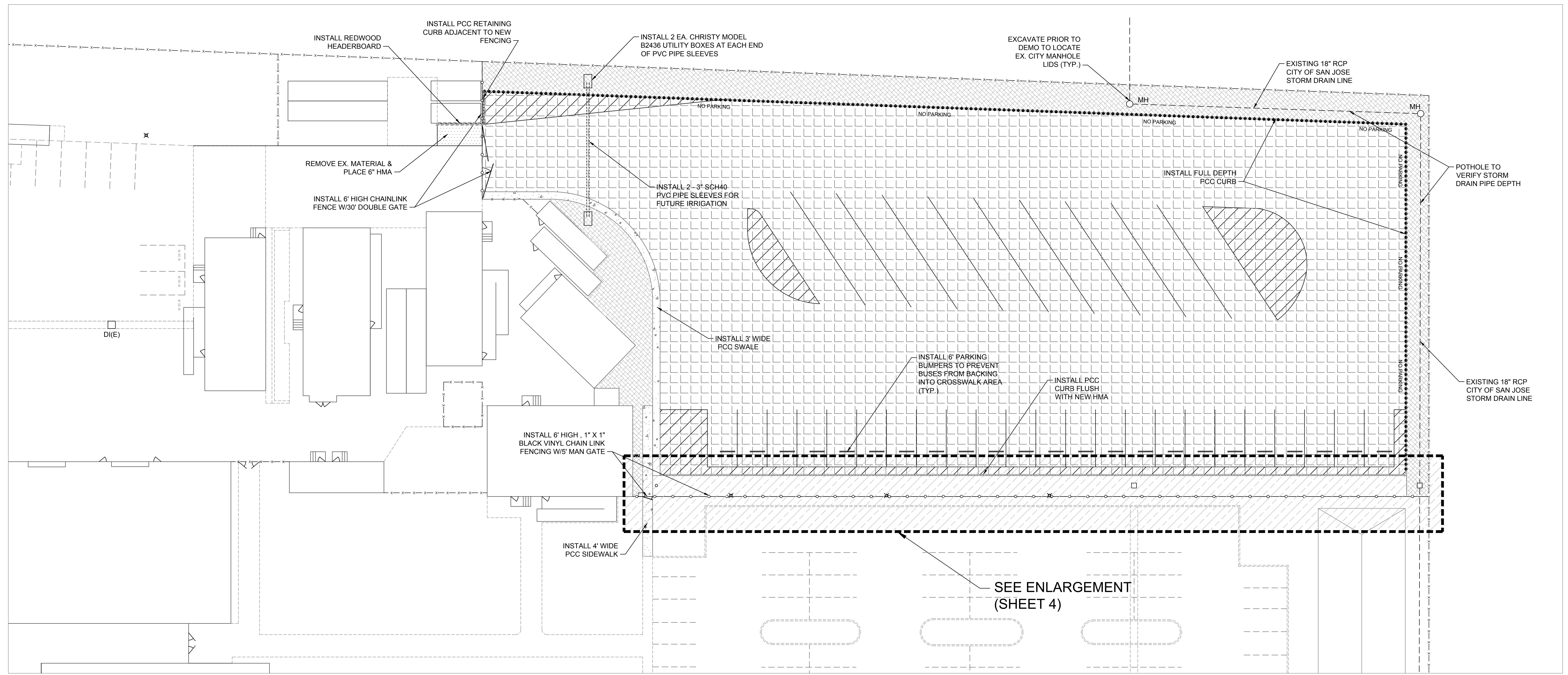
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**LEGEND**

-  LIME TREAT REGRADED SUBGRADE MATERIAL TO A DEPTH OF 15"; PLACE 6-3/4" HMA ON 5" CLASS II AGGREGATE BASE
-  REMOVE TOP 2" OF VEGETATION & TOP SOIL; REGRADE & BACKFILL WITH TOP SOIL TO WITHIN 2" OF NEW PCC SWALE
-  REMOVE EX. MATERIAL & PLACE 6" HMA
-  NEW BIOSWALE DRAINAGE AREA (SEE BIOSWALE - DESIGN PLAN)
-  NEW (OR) RECONSTRUCT PCC FACILITIES (SEE PLAN)
-  INSTALL FULL DEPTH PCC CURB
-  INSTALL PCC CURB FLUSH WITH NEW HMA
-  INSTALL PCC RETAINING CURB
-  INSTALL REDWOOD HEADERBOARD
-  INSTALL 6" SCH40 PVC DRAIN PIPE
-  INSTALL 3" PIPE SLEEVE
-  EXISTING FENCE TO REMAIN
-  INSTALL NEW 6' HIGH, 1" X 1" BLACK VYNIL CHAIN LINK FENCING
-  INSTALL CHAINLINK DRIVE/MAN GATE (SEE PLAN FOR LOCATION & SIZE)
-  INSTALL 6" PARKING BUMPER
-  EXISTING LIGHT STANDARD
-  DROP INLET
-  MANHOLE

**NOTES:**

1. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL TESTING THAT MAY BE REQUIRED TO LEGALLY DISPOSE OF EXCESS MATERIAL.
2. CONTRACTOR SHALL RESTRIPE ALL AREAS THAT ARE DISTURBED DURING CONSTRUCTION TO MATCH EXIST. STRIPING LAYOUTS.
3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS & CONTRACT DOCUMENTS. WORK NOT COMPLYING WITH PLANS & CONTRACT DOCUMENTS WILL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTORS EXPENSE.
4. THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND LEAVE WORK AREA CLEAN DAILY.
5. ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO REVIEW BY OWNER. ANY PORTION OF THE WORK DEFECTIVE SHALL BE REPLACED BY THE CONTRACTOR AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
6. ABSOLUTE ACCURACY OF DRAWING CAN NOT BE GUARANTEED. WHILE EVERY EFFORT HAS BEEN MADE TO COORDINATE THE LOCATION OF THE EXISTING EQUIPMENT, PIPING, ETC. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE EXACT REQUIREMENTS GOVERNED BY ACTUAL JOB CONDITIONS.
7. AREAS NOT IN SCOPE OF WORK DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE EXISTING CONDITION AT THE CONTRACTORS EXPENSE.
8. CONTRACTOR SHALL CLEAN OUT ALL DRAINAGE STRUCTURES, INCLUDING DROP INLETS, & SHALL FLUSH STORM DRAIN LINES PRIOR TO COMPLETION OF WORK TO ENSURE NO BLOCKAGES EXIST IN THE SYSTEM.
9. PROTECT EXISTING BUILDING STRUCTURES, AND ADJACENT FINISHED SURFACES DURING CONSTRUCTION. PATCH, REPAIR AND REFINISH AREAS DAMAGED OR IMPACTED BY WORK DURING THIS PROJECT TO MATCH ADJACENT UNDISTURBED AREAS. PATCHING, REPAIRING AND REFINISHING IS TO BE PERFORMED BY WORKMEN SKILLED IN THE TRADES INVOLVED.
10. CONTRACTOR SHALL HAVE LOCATING SERVICE VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO EXCAVATION. CONTRACTOR SHALL CONTACT THE ENGINEER TO REVIEW AND ADDRESS ANY UTILITIES CONFLICTING WITH THE SCOPE OF WORK.
11. UTILITY BOXES IN CONSTRUCTION AREAS SHALL BE REUSED AND RAISED TO FINISHED GRADE. IF BOXES ARE NOT REUSABLE, CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO REMOVAL.
12. ALL AREAS OF PCC CHIPPED OR DAMAGED DURING CONSTRUCTION SHALL BE REMOVED AND REPLACED BACK TO THE NEXT JOINT.
13. SOILS WITHING LIMITS OF NEW BIOSWALE SHALL NOT BE CONTAMINATED WITH THE LIME TREATMENT PROCESS. CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE TO TEST FOR LIME IN PLANTER AREAS PRIOR TO COMMENCING LANDSCAPING WORK.




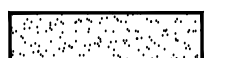


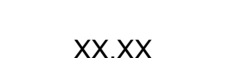
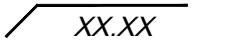




**ENLARGEMENT - PARKING AREA DESIGN**

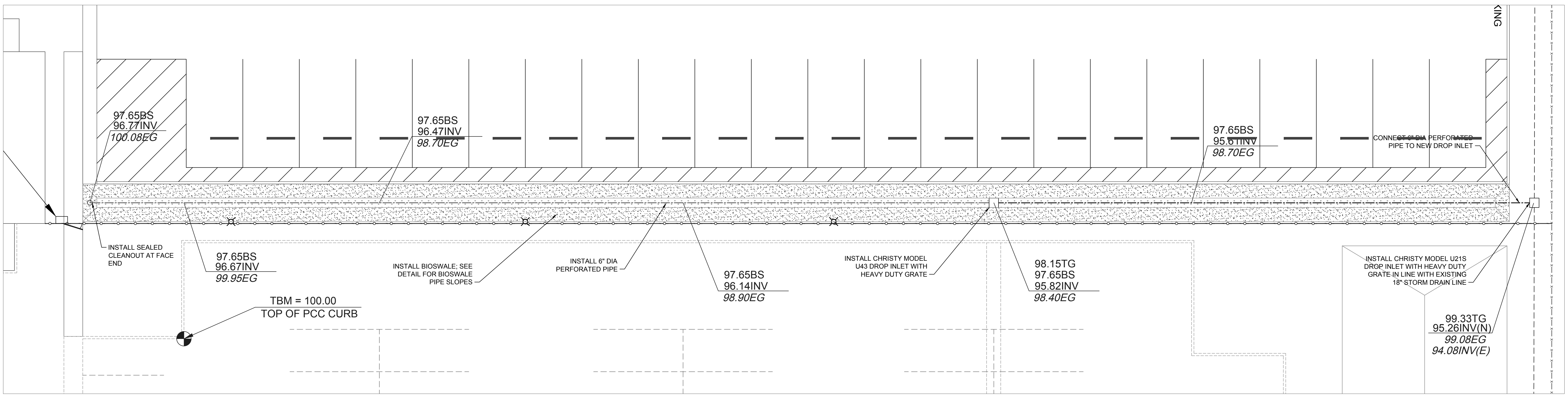
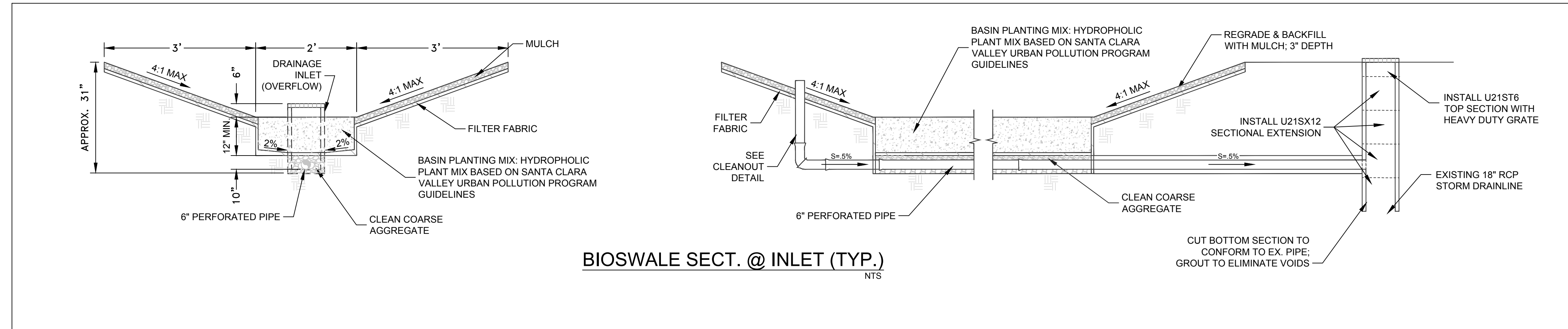
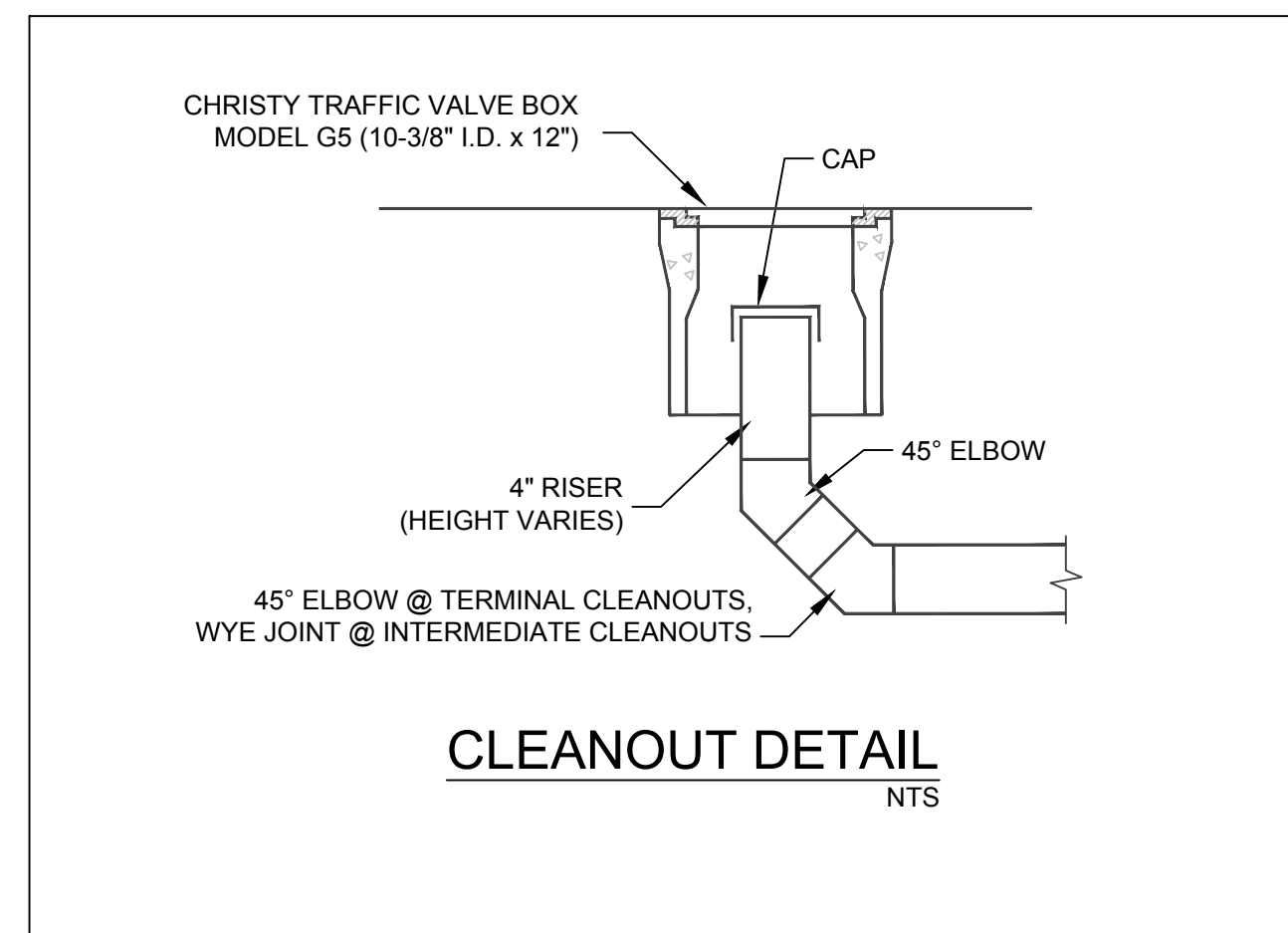
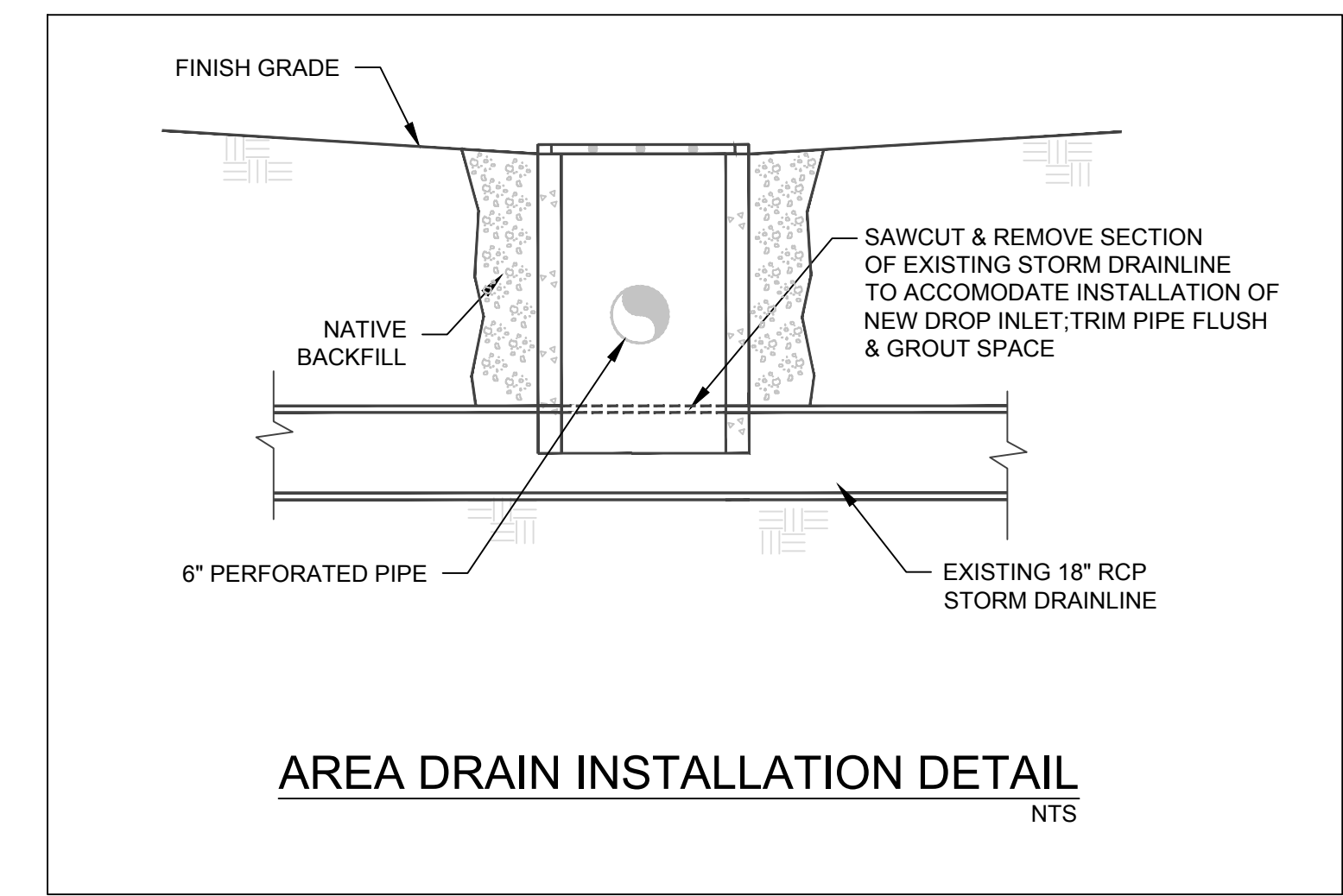
1" = 20'

PROJECT ENGINEER: WILLIAM J. LONG		 <p><b>Pavement Engineering Inc.</b> Civil Engineers • Materials Testing Specializing in Pavement Rehabilitation</p> <p><small>Petaluma Office (707) 769-5330 Redding Office (530) 224-4535 San Luis Obispo Office (805) 781-2265</small></p>		EAST SIDE UNION HIGH SCHOOL DISTRICT 830 NORTH CAPITOL AVENUE SAN JOSE, CA	
LICENSE: CA 047552	EXP.: 12-31-17			SCALE: 1" = 20'	APPROVED BY:
PLAN STATUS: <b>FINAL PLANS FOR CONSTRUCTION</b>		<p>2017 TRANSPORTATION YARD RELOCATION PROJECT DESIGN PLAN - PARKING AREA</p>		REVISED:	
		EAST SIDE UNION HIGH SCHOOL DISTRICT		DRAWING NUMBER 160290-01 C3	

Xref: Z:\Shared\8 Drive\Active Projects\East Side\HSD\160290\Task 01\Drawings\160290-01\_DESIGN2.dwg Plt Date: Apr 03, 2017 of 1442

**LEGEND**

-  BASIN PLANTING MIX: HYDROPHILIC PLANT MIX BASED ON SANTA CLARA VALLEY URBAN POLLUTION PREVENTION PROGRAM GUIDELINES
-  REGRADE & BACKFILL WITH MULCH
-  INSTALL 6" PERFORATED PIPE
-  TEMPORARY BENCH MARK
-  DESIGN ELEV.
-  EXIST. ELEV.
-  BASIN SURFACE
-  EXISTING GRADE
-  INVERT
-  TOP OF GRATE



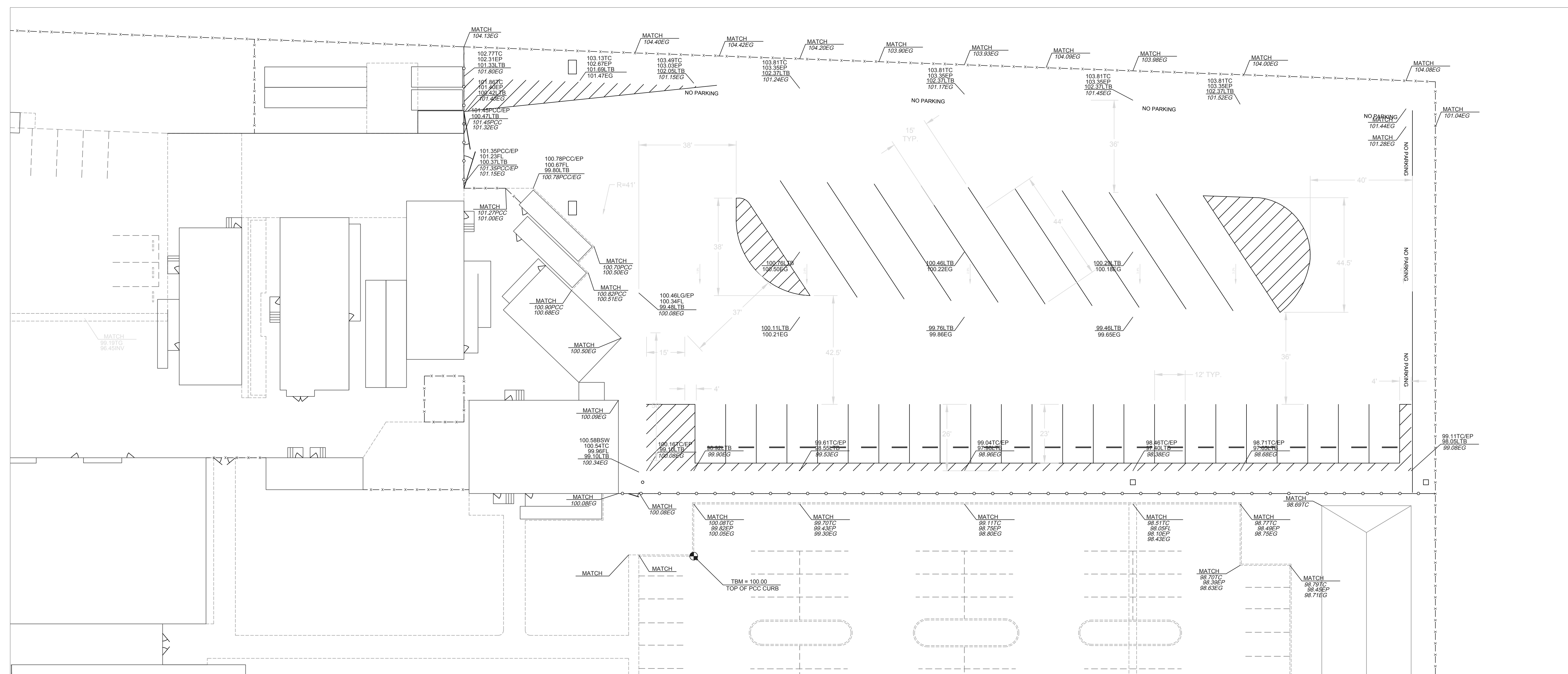
**ENLARGEMENT - BIOSWALE DESIGN**  
1" = 10'

PROJECT ENGINEER: WILLIAM J. LONG		 <b>Pavement Engineering Inc.</b> Civil Engineers • Materials Testing Specializing in Pavement Rehabilitation	EAST SIDE UNION HIGH SCHOOL DISTRICT 830 NORTH CAPITOL AVENUE SAN JOSE, CA	
LICENSE: CA 047552	EXP.: 12-31-17		SCALE: 1" = 10'	APPROVED BY:
PLAN STATUS: <b>FINAL PLANS</b> FOR CONSTRUCTION		DATE: JAN. 2017		REVISED:
		2017 TRANSPORTATION YARD RELOCATION PROJECT DESIGN PLAN - BIOSWALE		DRAWING NUMBER 160290-01 C4
		Petaluma Office (707) 769-5330 Redding Office (530) 224-4535 San Luis Obispo Office (805) 781-2265		EAST SIDE UNION HIGH SCHOOL DISTRICT

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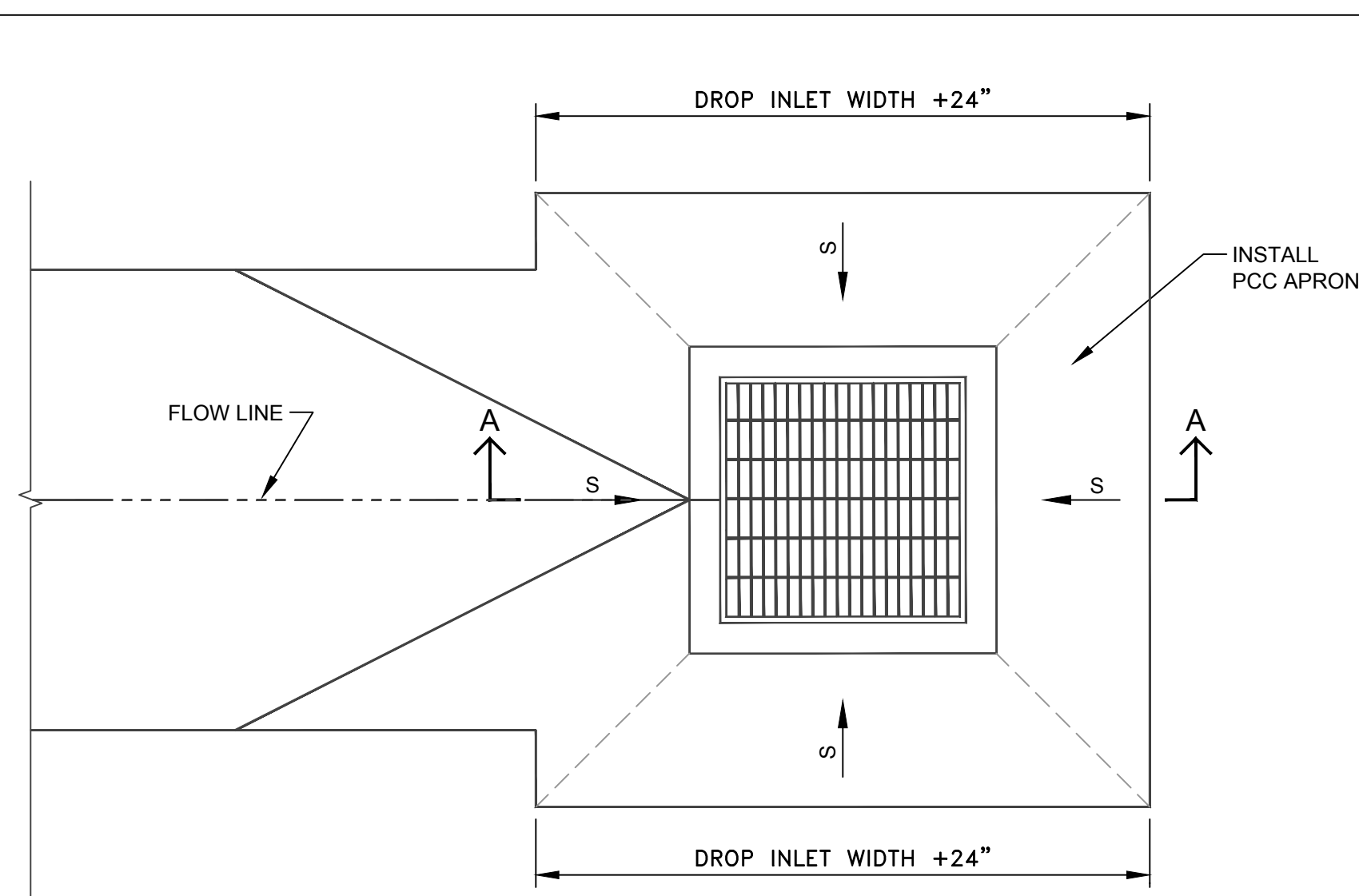
**LEGEND**

- TEMPORARY BENCH MARK
- XX.XX DESIGN ELEV.
- XX.XX EXIST. ELEV.
- EG EXISTING GRADE
- EP EDGE OF PAVEMENT
- FL FLOW LINE
- LG LIP OF GUTTER
- LTB LIME TREATED BASE
- PCC PORTLAND CEMENT CONCRETE
- SW SIDEWALK
- TG TOP OF GRATE
- TP TOP OF PAVEMENT

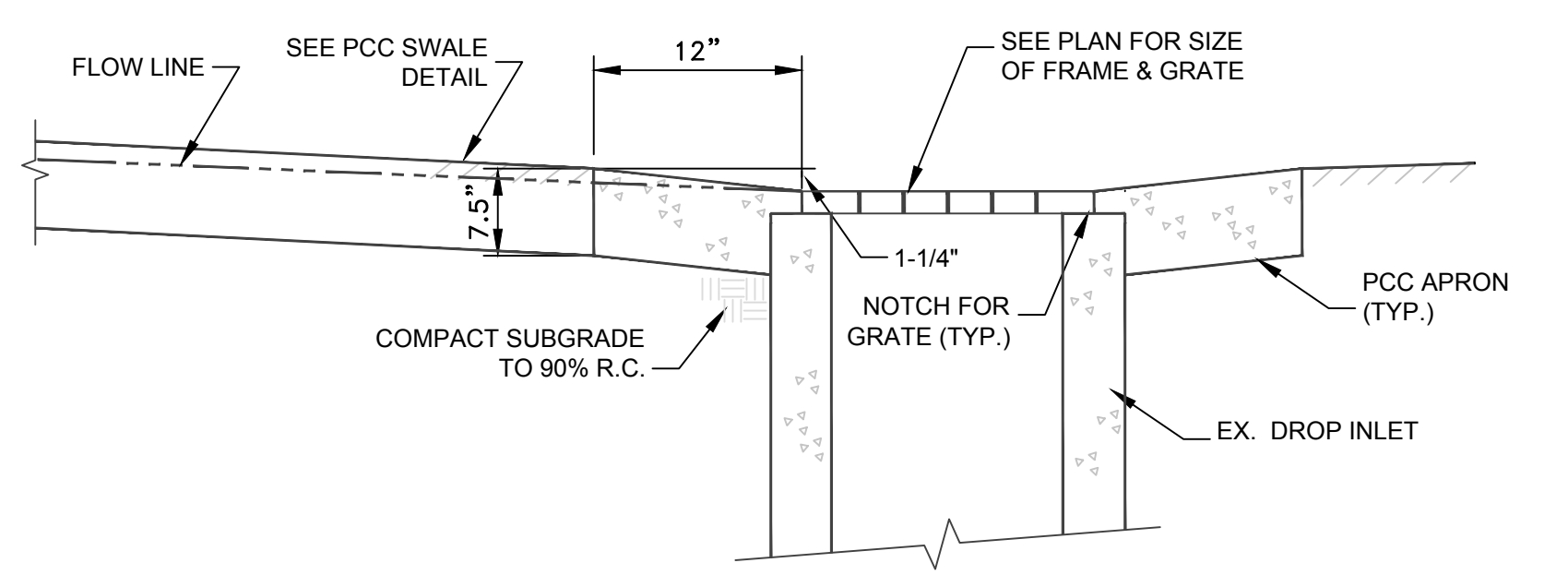


PROJECT ENGINEER: WILLIAM J. LONG		<p><b>Pavement Engineering Inc.</b> Civil Engineers • Materials Testing Specializing in Pavement Rehabilitation</p> <p><i>Petaluma Office (707) 769-5330</i> <i>Redding Office (530) 224-4535</i> <i>San Luis Obispo Office (805) 781-2285</i></p>	EAST SIDE UNION HIGH SCHOOL DISTRICT 830 NORTH CAPITOL AVENUE SAN JOSE, CA	
LICENSE: CA 047552	EXP.: 12-31-17		SCALE: 1" = 20'	APPROVED BY:
PLAN STATUS: <b>FINAL PLANS</b> FOR CONSTRUCTION		DATE: JAN. 2017		REVISED:
		2017 TRANSPORTATION YARD RELOCATION PROJECT GRADING/DIMENSION PLAN		

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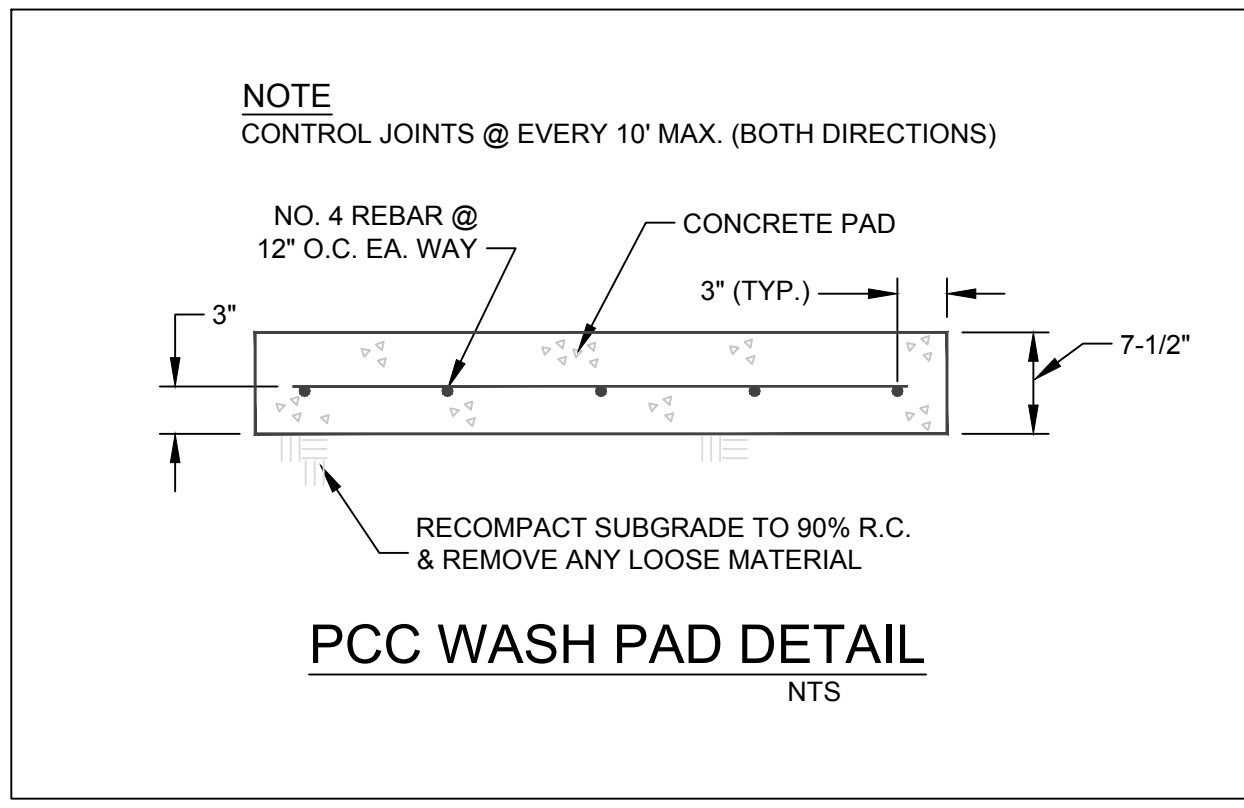


PLAN

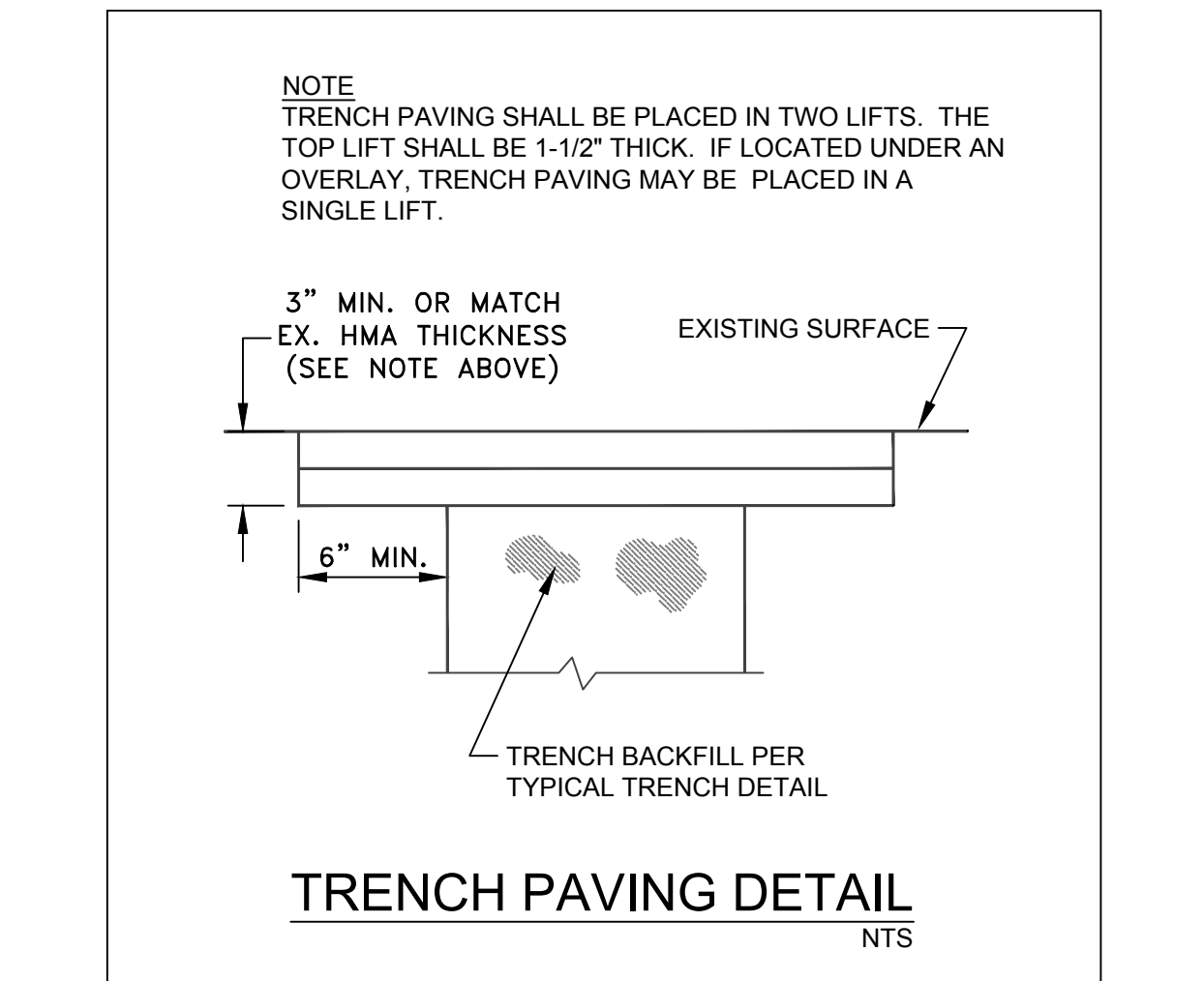


SECTION A-A

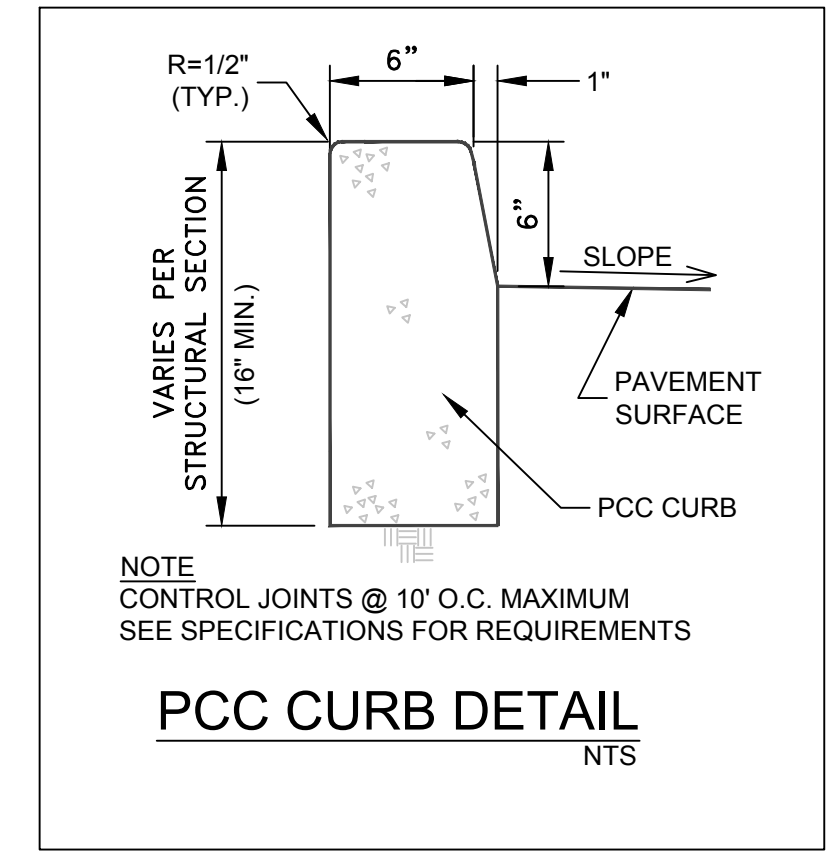
TYPICAL DROP INLET APRON @ SWALE CONNECTION  
NTS



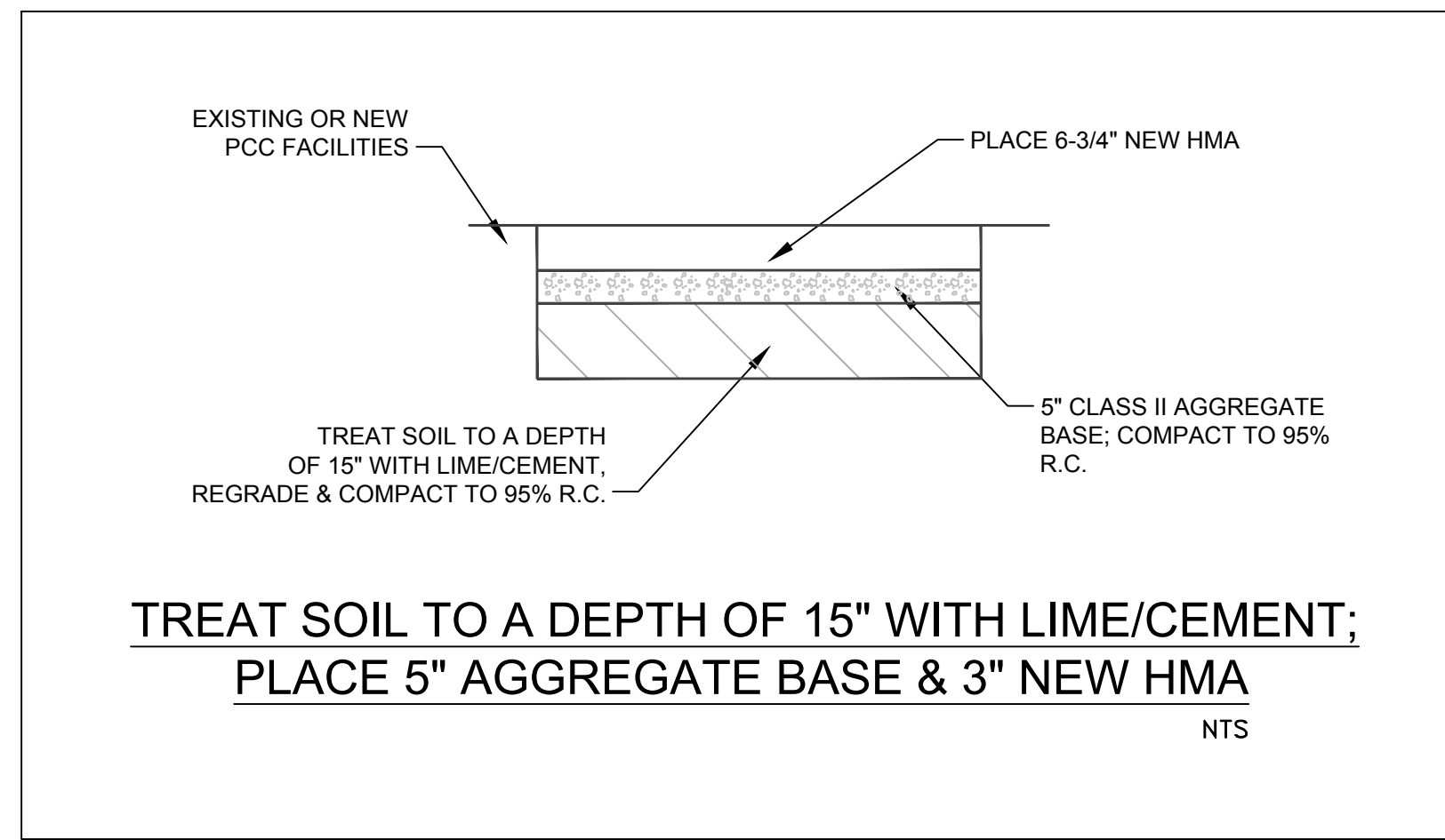
PCC WASH PAD DETAIL  
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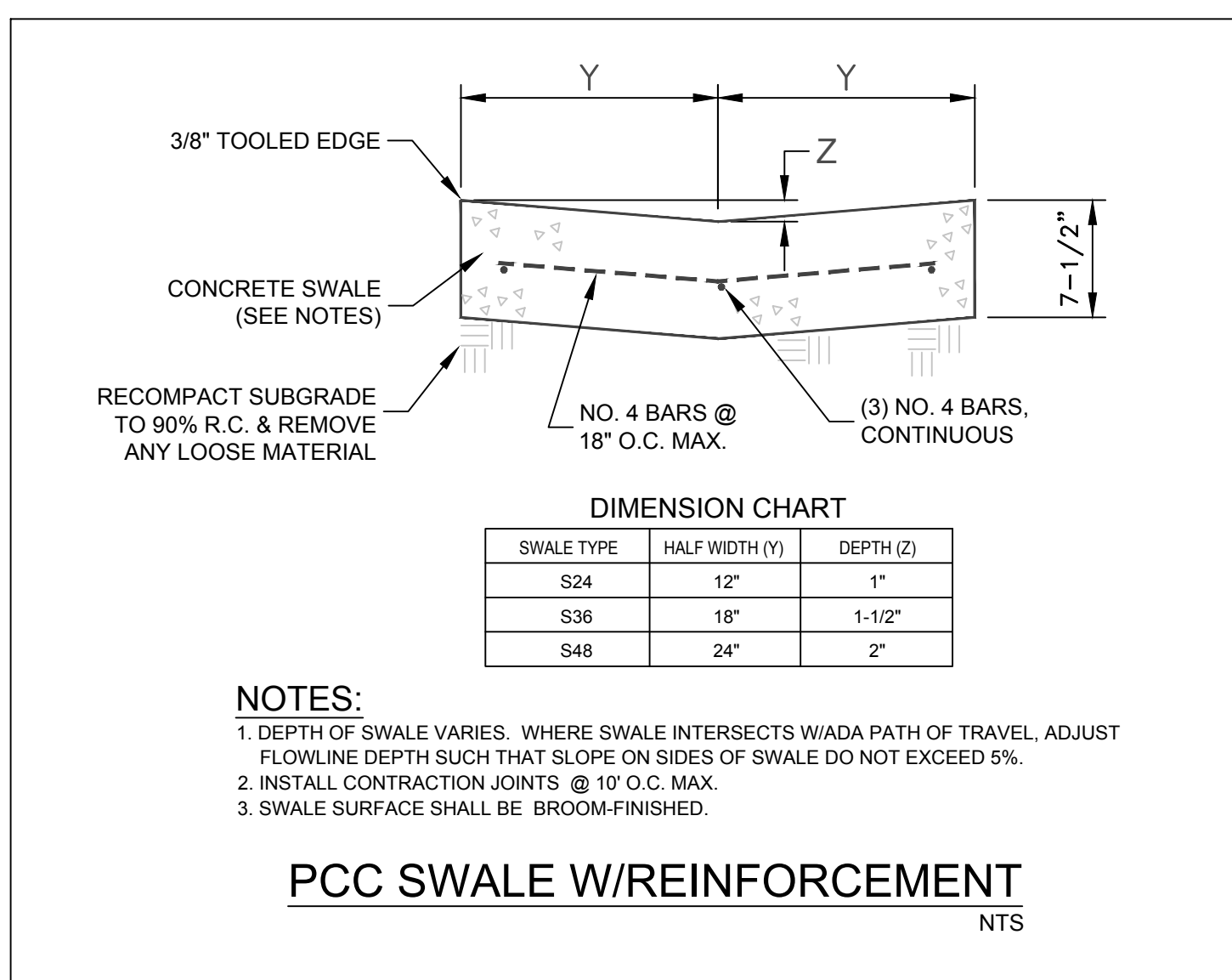
TRENCH PAVING DETAIL  
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PCC CURB DETAIL  
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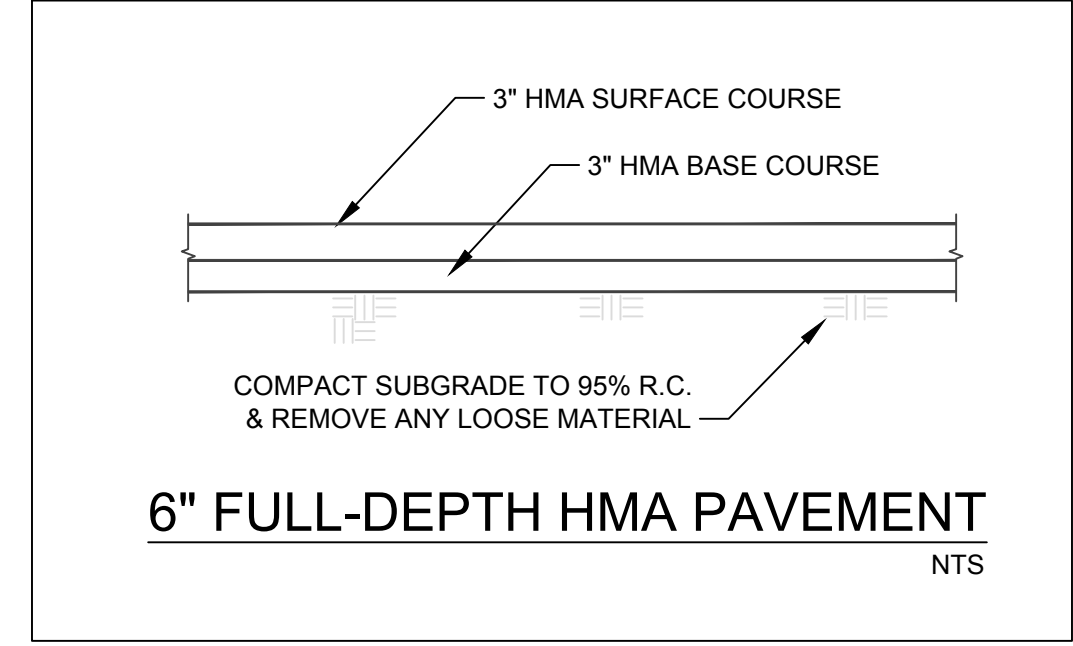


TREAT SOIL TO A DEPTH OF 15" WITH LIME/CEMENT;  
PLACE 5" AGGREGATE BASE & 3" NEW HMA  
NTS

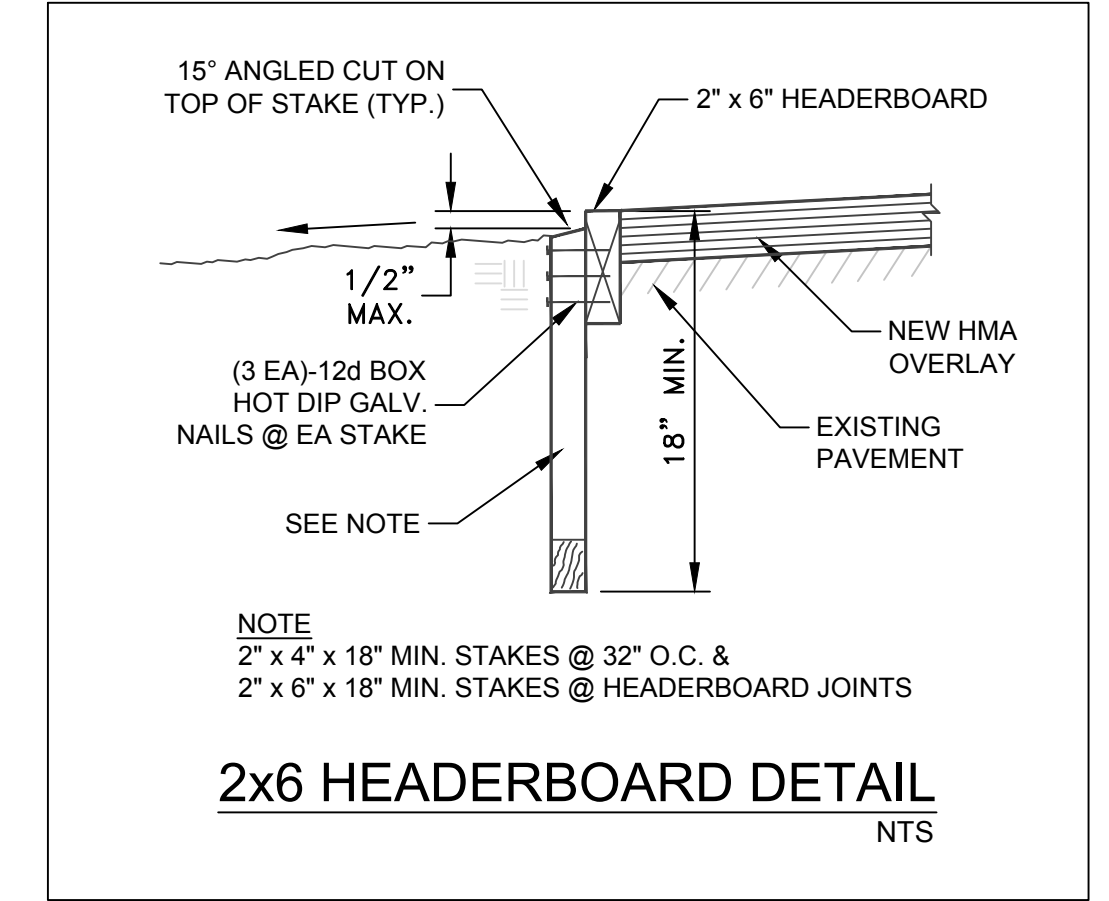


NOTES:  
1. DEPTH OF SWALE VARIES. WHERE SWALE INTERSECTS W/ADA PATH OF TRAVEL, ADJUST FLOWLINE DEPTH SUCH THAT SLOPE ON SIDES OF SWALE DO NOT EXCEED 5%.  
2. INSTALL CONTRACTION JOINTS @ 10' O.C. MAX.  
3. SWALE SURFACE SHALL BE BROOM-FINISHED.

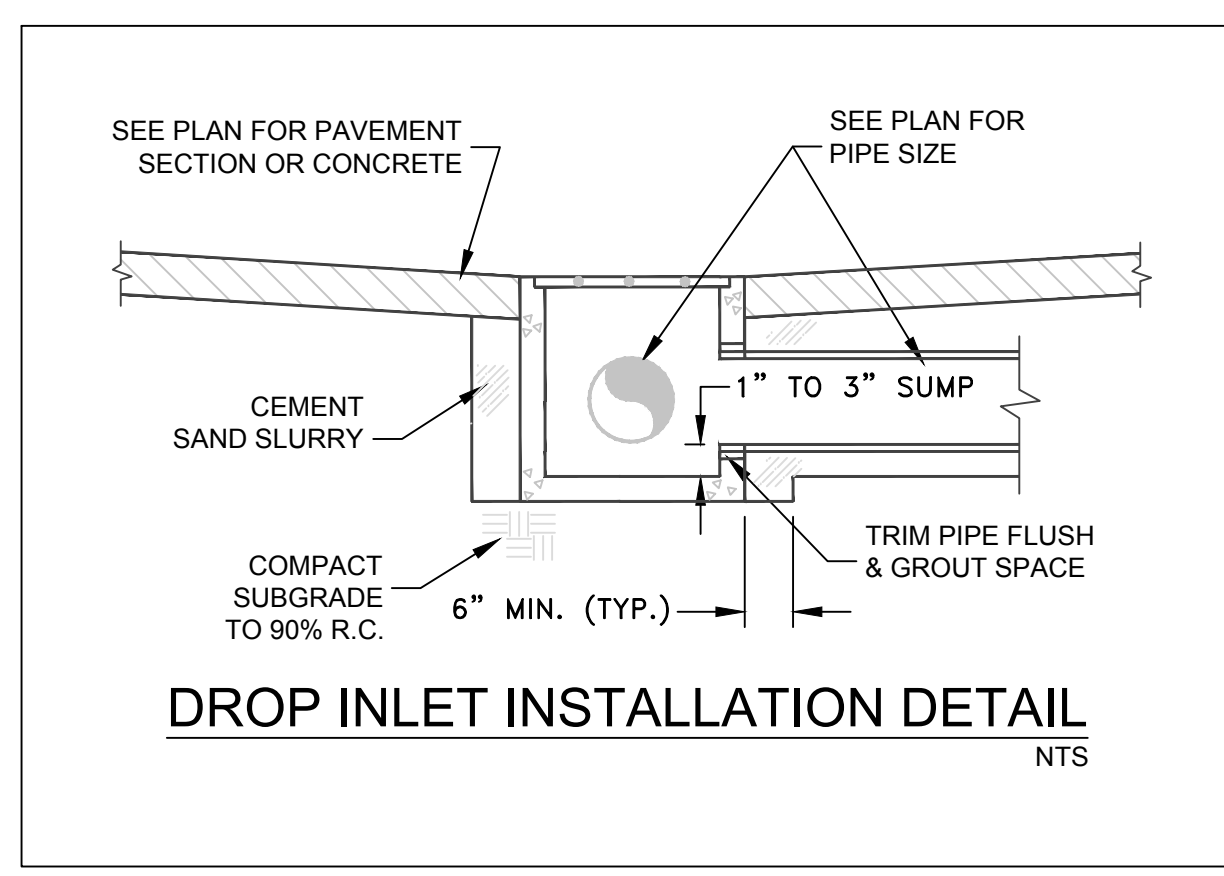
PCC SWALE W/REINFORCEMENT  
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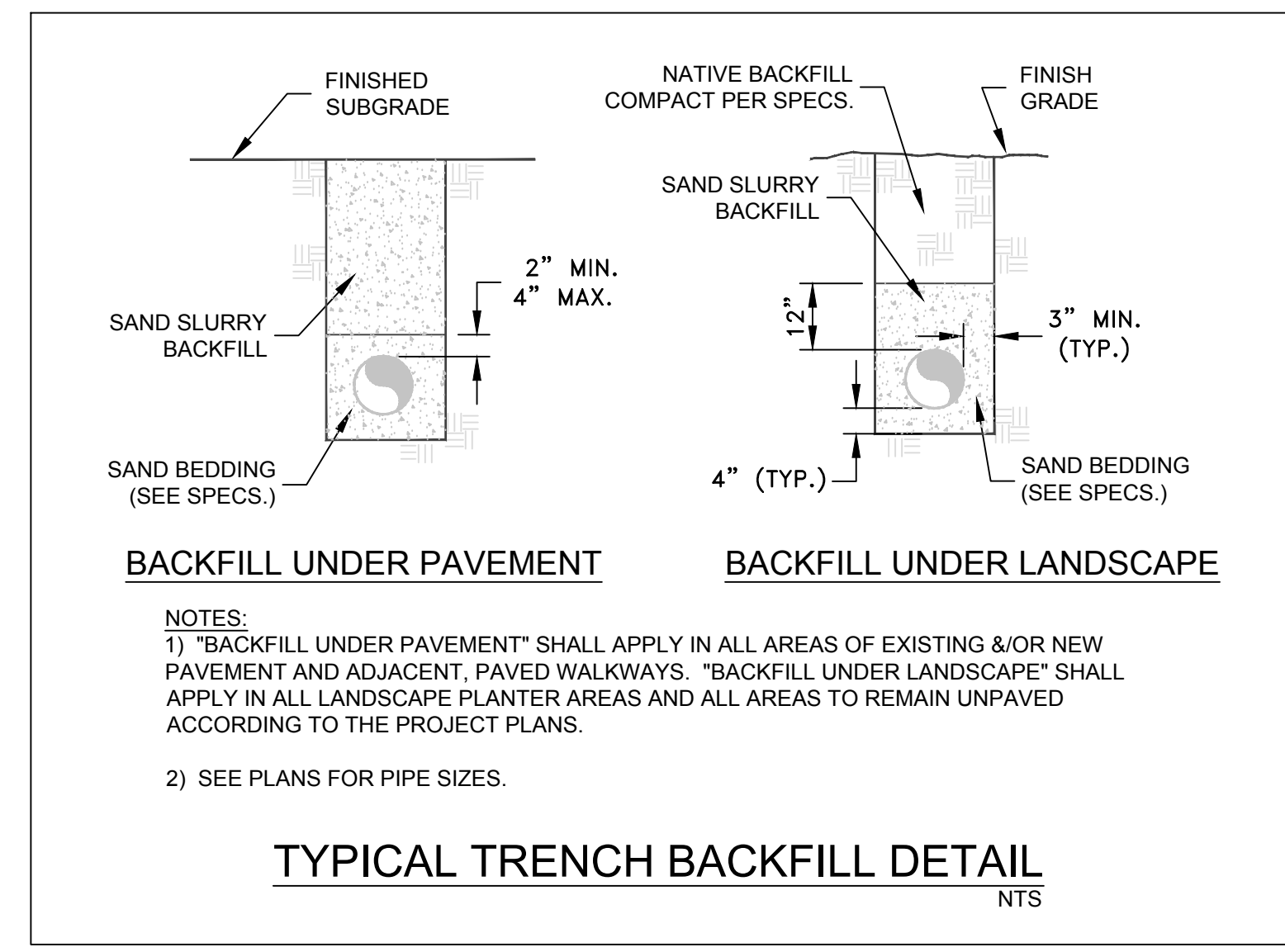
6" FULL-DEPTH HMA PAVEMENT  
NTS



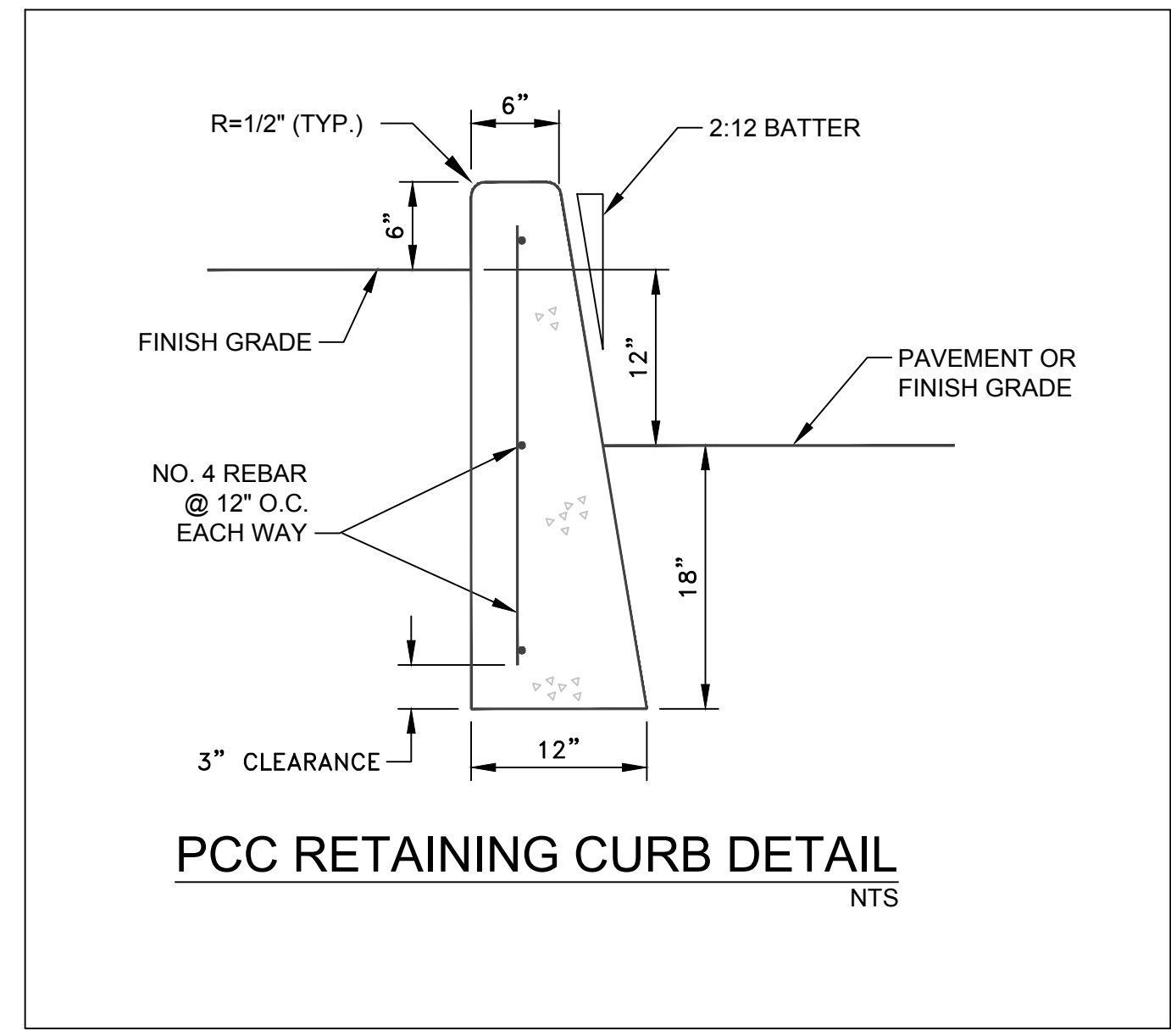
2x6 HEADERBOARD DETAIL  
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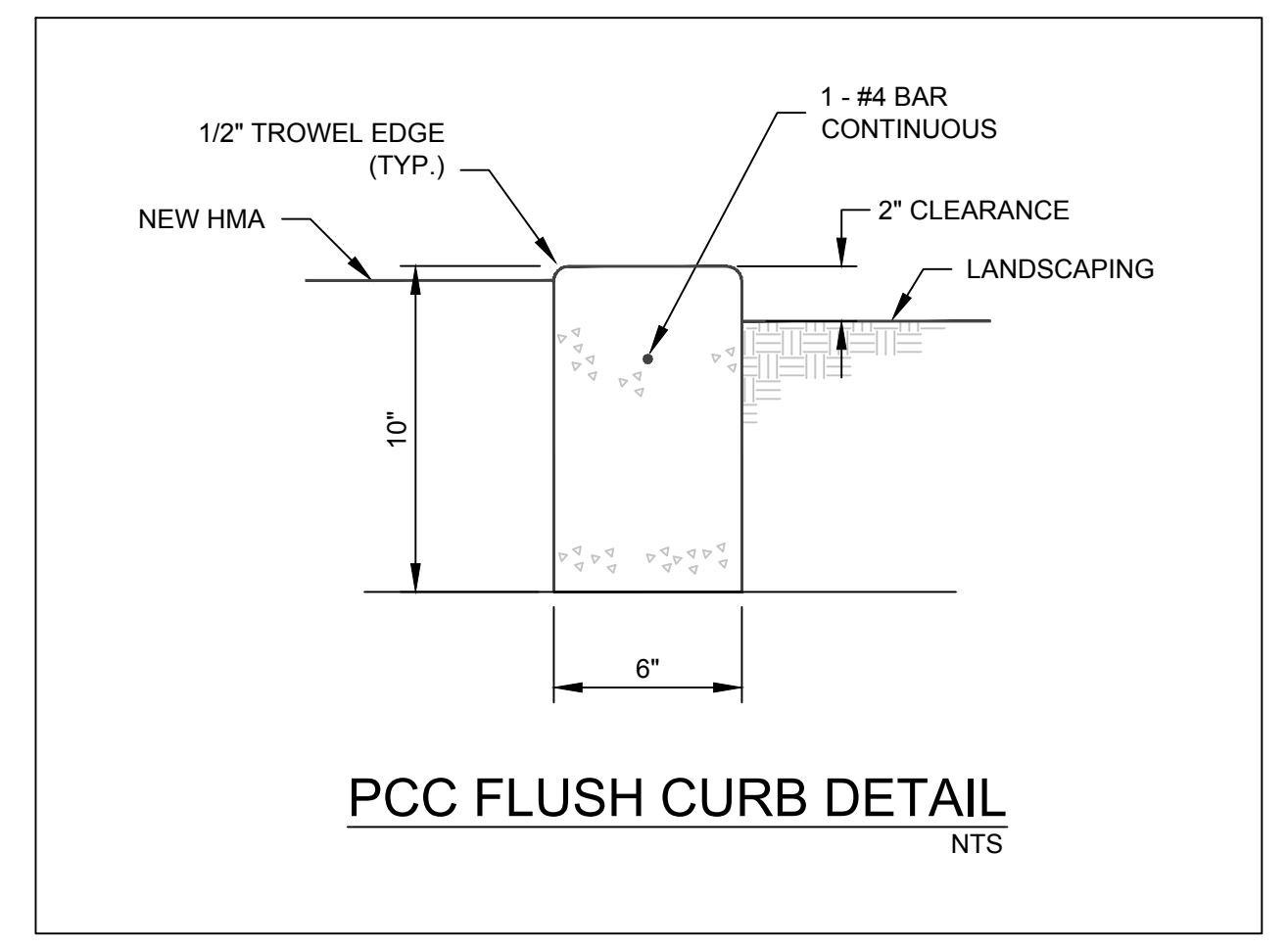
DROP INLET INSTALLATION DETAIL  
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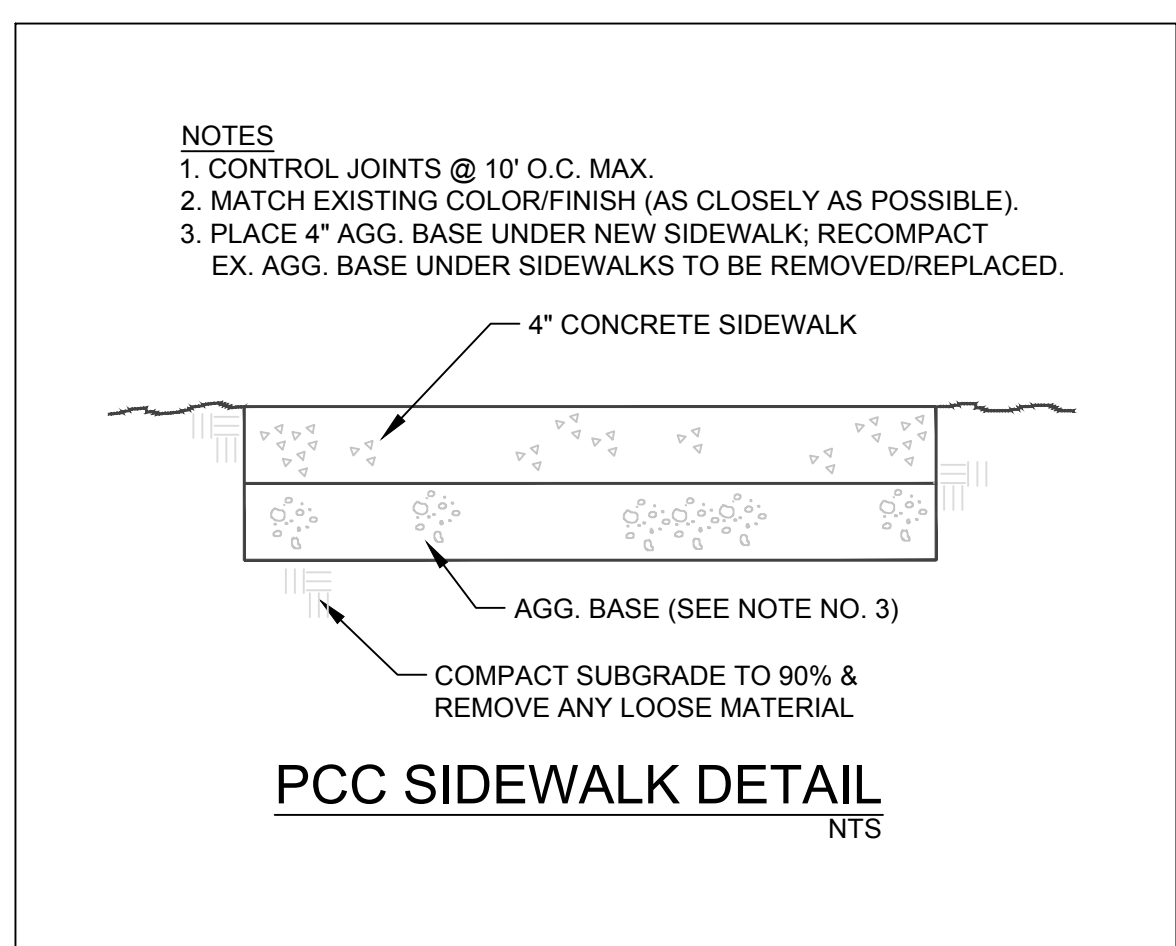
TYPICAL TRENCH BACKFILL DETAIL  
NTS



PCC RETAINING CURB DETAIL  
NTS



PCC FLUSH CURB DETAIL  
NTS



PCC SIDEWALK DETAIL  
NTS

PROJECT ENGINEER: WILLIAM J. LONG  
LICENSE: CA 047552 EXP.: 12-31-17  
PLAN STATUS:  
FINAL PLANS  
FOR CONSTRUCTION

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EAST SIDE UNION HIGH SCHOOL DISTRICT  
830 NORTH CAPITOL AVENUE SAN JOSE, CA  
SCALE: NTS APPROVED BY: DRAWN BY: BTR  
DATE: JAN. 2017 REVISED:  
2017 TRANSPORTATION YARD RELOCATION PROJECT  
DETAIL PLAN  
EAST SIDE UNION HIGH SCHOOL DISTRICT DRAWING NUMBER 150227-01 C6

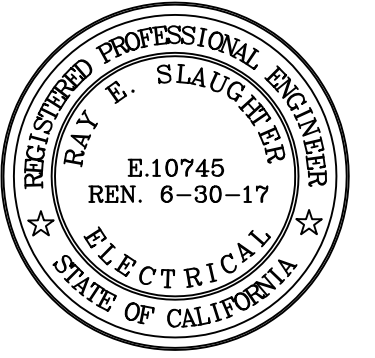
FIXTURE SCHEDULE					
TYPE	DESCRIPTION & MANUFACTURER	LAMPS	INPUT WATTS	MOUNTING	REMARKS
A	NEW LED FIXTURE AND POLE, BRONZE, SINGLE HEAD, DOUBLE MODULE 240VOLT MOTION SENSOR, 50%-100% DIMMING CONTROL CREE: #BXSP-HT-3ME-B-40K-UL-BZ-ML	8200 LMS 4000K	101	15'-0" POLE ①	17'-0" MTG. HEIGHT TYPE 3 GENERAL NOTE #21,22
A2	NEW LED FIXTURE AND POLE, BRONZE DOUBLE HEAD, 240VOLT MOTION SENSOR, 50%-100% DIMMING CONTROL CREE: #(2)BXSP-HT-4ME-B-40K-UL-BZ-ML	(2) 8200 LMS 4000K	202	15'-0" POLE ②	17'-0" MTG. HEIGHT TYPE 4 GENERAL NOTE #21,22

## GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE 2013 CALIFORNIA ELECTRICAL CODE, 2013 NON RESIDENTIAL COMPLIANCE MANUAL AND ALL STATE AND MUNICIPAL CODES AND ORDINANCES. FEEDER CIRCUITS MINIMUM 2% VOLTAGE DROP. BRANCH CIRCUITS MINIMUM 3% VOLTAGE DROP.
- CIRCUITRY AND CONDUIT ROUTING SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. THE CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE SITE AND STRUCTURAL CONDITIONS AND LIMITATIONS WHICH WILL EXIST AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION WHEREVER INDICATED ON THE PLANS.
- COORDINATE ALL ELECTRICAL WORK WITH THE OTHER TRADES.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH THE EXTERIOR LANDSCAPE PLANS. THE REQUIREMENTS OF ALL EQUIPMENT SHALL BE VERIFIED PRIOR TO THE INSTALLATION OF THE ELECTRICAL WORK.
- ALL ELECTRICAL EQUIPMENT USED EXPOSED AND/OR SURFACE MOUNTED SHALL BE WEATHERPROOF.
- WHERE MATERIALS, EQUIPMENT, APPARATUS, OR OTHER PRODUCTS ARE SPECIFIED BY MANUFACTURER, BRAND NAME, TYPE, OR CATALOG NUMBER SUCH DESIGNATION IS TO ESTABLISH STANDARDS OF DESIRED QUALITY AND STYLE AND SHALL BE THE BASIS OF THE BID. MATERIAL SO SPECIFIED SHALL BE FURNISHED UNDER THE CONTRACT UNLESS A CHANGE IS AUTHORIZED IN WRITING. ACCEPTANCE OR REJECTION OF THE PROPOSED SUBSTITUTIONS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER. IF REQUESTED BY THE OWNER, THE CONTRACTOR SHALL SUBMIT FOR INSPECTION SAMPLES OF BOTH THE SPECIFIED AND PROPOSED SUBSTITUTE TERMS.
- INSPECT AND MAKE NECESSARY TEST WHICH THE OWNER MAY REQUEST TO INSURE THAT THE ELECTRICAL EQUIPMENT IS INSTALLED CORRECTLY AND THAT THE WIRING SYSTEMS ARE FREE OF ALL SHORTS, GROUNDS, AND FAULTY CONNECTIONS AND HAVE INSULATION RESISTANCE BETWEEN CONDUCTORS AND GROUNDS OF NOT LESS THAN THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.
- ALL CONDUCTORS SHALL BE COPPER, INSTALLED IN CONDUIT.
- ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES AND REQUIREMENTS.
- INCLUDE GREEN COPPER GROUND WIRE IN ALL CONDUITS FROM THE PANELBOARD GROUND BAR TO RECEPTACLE AND EQUIPMENT GROUND LUGS. SIZES PER CODE.
- ALL MATERIALS SHALL BE NEW, OF THE BEST QUALITY, AND SHALL BE APPROVED BY THE UNDERWRITERS' LABORATORIES AND EACH LENGTH OF CONDUIT SHALL BEAR THE U.L. LABEL.
- NON-METALLIC CONDUIT: PVC HIGH IMPACT 90°C POLYVINYL CHLORIDE, SCHEDULE 40 WITH FACTORY SPACERS, COUPLINGS, BENDS AND OFFSETS. PLASTIC CONNECTIONS TIGHTLY FITTED AND BUTTED, CEMENT WELDED UTILIZING TINTED PRIMER PER ASTM F656 AND HEAVY BODY, MEDIUM SET CEMENT PER ASTM D2564, IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. PLASTIC TO METAL CONNECTION WITH UL LISTED ADAPTERS.
- FITTINGS: PROVIDE FITTING AND ACCESSORIES APPROVED FOR THE PURPOSE AND EQUAL IN ALL RESPECTS TO THE CONDUIT OR RACEWAY.
- RECEPTACLES SHALL BE RATED 125 VOLTS COMMERCIAL SPECIFICATION GRADE, HUBBELL, ARROW-HART, LEVITRON OR EQUAL.
- WEATHERPROOF DEVICE PLATES SHALL BE LIFT-LID POLYCARBONATE HINGED COVER AND LOCKABLE.
- INSTALL PULLROPE IN ALL EMPTY CONDUITS (C.O.) TAG EACH END.
- CONDUIT SYSTEM SHALL BE ELECTRICALLY CONTINUOUS WITH ALL BOXES AND CONDULETS READILY ACCESSIBLE.
- FIXTURE LOCATION: ALL LIGHT FIXTURE LOCATIONS TO BE VERIFIED BY SCHOOL DISTRICT AND ENGINEER BEFORE COMMENCING INSTALLATION. ALL FIXTURES SHALL BE IN A NEW, UNUSED CONDITION.
- EQUIPMENT SHALL BE THE TYPE SPECIFIED, THERE WILL BE NO SUBSTITUTIONS WITHOUT PRIOR APPROVAL FROM THE ENGINEER. ELECTRICAL CONTRACTOR TO FURNISH NEW PHOTOMETRIC LAYOUTS FOR ALTERNATE FIXTURES. ELECTRICAL CONTRACTOR TO INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S SPECIFICATIONS AND DETAILS.
- ELECTRICAL CONTRACTOR TO INCLUDE FULL DOCUMENTATION OF COMMISSIONING COMPLIANCE FORMS AND CERTIFICATE REQUIREMENTS PER 2013 BUILDING EFFICIENCY STANDARDS 130.4
- PARKING LOT LIGHTING: TIMECLOCK OFF-ON. MOTION SENSOR CONTROL 50%-NO MOTION AND 100%-ACTIVE MOTION. REFER TO CREE LED MULTI-LEVEL OPTIONS.
- CREE: #PS4S15C, 15'-0" NON-TRAPED SQUARE STEEL POLE WITH COVER PLATE, BRONZE FINISH, TYPE A- SINGLE HEAD, TYPE A2-TWIN HEAD (108") WITH OPTION 20AMP, 120VOLT GFI RECEPTACLE WITH LOCKABLE COVER.
- ALL NEW CIRCUIT BREAKERS SHALL MATCH EXISTING AIC AT EXISTING PANEL FP.
- NOTHING IN THESE PLANS ARE TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO LOCAL CODES. HOWEVER, WHEN THESE SPECIFICATIONS CALL FOR OR DESCRIBE MATERIALS OR CONSTRUCTION OF A BETTER QUALITY, OR LARGER SIZE THAN REQUIRED BY THE ABOVE MENTIONED RULES AND REGULATIONS, THE PROVISIONS OF THESE SPECIFICATIONS SHALL TAKE PRECEDENCE OVER REQUIREMENTS OF THE SAID RULES AND REGULATIONS.
- FURNISH, WITHOUT EXTRA CHARGE TO OWNER, ALL ADDITIONAL MATERIAL AND LABOR WHEN AND WHERE REQUIRED TO COMPLY WITH THESE RULES AND REGULATIONS, THOUGH THE WORK MAY BE NOT MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE PLANS.
- THE WORK UNDER THIS SECTION SHALL INCLUDE COMPETENT DIRECTION AND FIRST-CLASS MECHANICS TO MAKE THE INSTALLATION AND COMPLETE THE WORK IN CONFORMITY WITH THE INTENT OF THE PLANS AND SPECIFICATIONS.
- EACH SUBMITTAL SHALL BE ACCOMPANIED BY A COVER LETTER OR SHALL BEAR A STAMP STATING THAT THE SUBMITTAL HAS BEEN REVIEWED BY THE CONTRACTOR AND IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. COVER LETTERS SHALL LIST IN FULL THE ITEMS AND DATA SUBMITTED.
- INSPECT AND MAKE NECESSARY TEST WHICH THE OWNER MAY REQUEST TO INSURE THAT THE ELECTRICAL EQUIPMENT IS INSTALLED CORRECTLY AND THAT THE WIRING SYSTEMS ARE FREE OF ALL SHORT, GROUNDS AND FAULTY CONNECTIONS AND HAVE INSULATION RESISTANCE BETWEEN CONDUCTORS AND GROUNDS OF NOT LESS THAN THE REQUIREMENT OF THE NATIONAL ELECTRIC CODE.

SHEET INDEX	
E0.1	GENERAL NOTES, FIXTURE SCHEDULE AND SHEET INDEX
E0.2	EXTERIOR TITLE 24
E1.1	SITE PLAN

REVISIONS	BY
-	



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 District Transportation Yard  
 830 North Capital Avenue  
 San Jose, California

**GENERAL NOTES,  
 FIXTURE  
 SCHEDULE  
 AND SHEET  
 INDEX**

Date: 02-23-2017  
 Scale:  
 Drawn: RESA  
 Job: 1704  
 Sheet

**E0.1**



STATE OF CALIFORNIA  
**OUTDOOR LIGHTING CONTROLS**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: **EAST SIDE UNION HIGH SCHOOL DISTRICT** Date: **02-21-2017**

The NRCA-TO-02-E shall be used to document all mandatory outdoor lighting controls that are applicable to the project.

Mandatory Outdoor Lighting Control Declaration Statements  
 Check all that apply:

- Lighting shall be controlled by self-contained lighting control devices which are certified the Energy Commission according to the Title 20 Acceptance Efficiency Regulations in accordance with 110.9.
- Lighting shall be controlled by a lighting control system or energy management control system in accordance with 110.9. An Installation Certificate shall be submitted in accordance with 130.6(a).
- All lighting controls and equipment shall comply with the applicable requirements in 110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with 130.1.
- Park/Night Outdoor Lighting Controls, as defined in section 100.1, shall meet the requirements in section 110.9 (b)5
- All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
- All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c) shall comply with Backlight, Light, and Glass (collectively referred to as "BLG") in accordance with Section 130.2(c)
- All installed outdoor lighting shall be controlled by a photocell or outdoor astronomical time-switch control in accordance with Section 130.2(c)1
- All installed outdoor lighting shall be controlled and independently monitored from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2
- All installed outdoor lighting, when the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3
- For Outdoor Sales Frontage, Outdoor Sales Lots, and Outdoor Sales Canopies Lighting, and automatic lighting controls in accordance with Section 130.2(c)4
- For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control in accordance with Section 130.2(c)5
- Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving building area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with 130.6(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix A47.5

STATE OF CALIFORNIA  
**OUTDOOR LIGHTING CONTROLS**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: **EAST SIDE UNION HIGH SCHOOL DISTRICT** Date: **02-21-2017**

**MANDATORY OUTDOOR LIGHTING CONTROL SCHEDULE AND FIELD INSPECTION CHECKLIST**

A	B	C	D	E	F	G	H	I	N	O	Standards Complying With 1 (All that apply, or other "E" if Exempt)		Compliance Category	Inspected	
											110.9	110.9(b)5			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

STATE OF CALIFORNIA  
**OUTDOOR LIGHTING CONTROLS**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: **EAST SIDE UNION HIGH SCHOOL DISTRICT** Date: **02-21-2017**

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

I, **RAY SLAUGHTER**, certify that the certificate of compliance documentation is accurate and complete.

Signature: **RAY E. SLAUGHTER & ASSOCIATES**  
 3820 CYPRESS DRIVE, SUITE 1  
 PETALUMA, CALIFORNIA 94954  
 Phone: (707)762-3310

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

I, **RAY SLAUGHTER**, certify that the information provided on this Certificate of Compliance is true and correct.

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STATE OF CALIFORNIA  
**OUTDOOR LIGHTING POWER ALLOWANCES**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: **EAST SIDE UNION HIGH SCHOOL DISTRICT** Date: **02-21-2017**

**A. OUTDOOR LIGHTING POWER ALLOWANCE SUMMARY**

1. General Hardscape Lighting Power Allowance (See Table from Section 140.7.A.1)

2. Sum of ALL ALLOWED Outdoor Lighting Wattage (see Table 140.7.A.2)

PER APPLICATION	PER UNIT LENGTH (SALES FRONTAGE)	PER HARDSCAPE AREA (ORNAMENTAL LIGHTING)	PER SPECIFIC AREA
1	2	3	4

**B. GENERAL HARDSCAPE LIGHTING POWER ALLOWANCE FROM TABLE 140.7.A.1**

A	B	C	D	E	F	G	H	I
Automotive Hardscape	46,500	0.09	4185	910	0.6	546	770	5501
TOTAL								

STATE OF CALIFORNIA  
**OUTDOOR LIGHTING**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: **EAST SIDE UNION HIGH SCHOOL DISTRICT** Date: **02-21-2017**

**A. OUTDOOR LIGHTING SCHEDULE AND FIELD INSPECTION ENERGY CHECKLIST**

A	B	C	D	E	F	G	H	I	J
A	PARKING AREA LED	101	4	404	PARKING				
A1	(2) HEAD PARKING LED	202	4	808	PARKING				
INSTALLED WATTS PAGE TOTAL:									1212

STATE OF CALIFORNIA  
**OUTDOOR LIGHTING**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: **EAST SIDE UNION HIGH SCHOOL DISTRICT** Date: **02-21-2017**

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TOTAL								

STATE OF CALIFORNIA  
**OUTDOOR LIGHTING**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: **EAST SIDE UNION HIGH SCHOOL DISTRICT** Date: **02-21-2017**

Project Address: **830 NORTH CAPITOL AVENUE SAM JOSE, CALIFORNIA**

General Information  
 Phase of Construction:  New Construction  Addition  Alteration

Outdoor Lighting Zone (OLZ)  OLZ-1  OLZ-2  OLZ-3  OLZ-4

Lighting Compliance Documents (check box for each document included):

- NRCA-TO-04-E Certificate of Compliance
- NRCA-TO-04-E Certificate Lighting Controls Certificate of Compliance
- NRCA-TO-04-E Certificate Lighting Power Allowance Certificate of Compliance

Summary of Allowed Outdoor Lighting Power

1. Sum Total ALLOWED Outdoor Lighting Wattage from NRCA-TO-04-E, PAGE 1	5501
2. Sum Total INSTALLED Outdoor Lighting Wattage from NRCA-TO-04-E, PAGE 3	1212

Declaration of Required Installation Certificates-Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)

- NRCA-TO-1-E Must be submitted for buildings
- NRCA-TO-02-E Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.

Declaration of Required Certificates of Acceptance-Declare by checking all of the Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)

- NRCA-TO-02-A Must be submitted for outdoor lighting controls.

STATE OF CALIFORNIA  
**OUTDOOR LIGHTING**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: **EAST SIDE UNION HIGH SCHOOL DISTRICT** Date: **02-21-2017**

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

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STATE OF CALIFORNIA  
**OUTDOOR LIGHTING POWER ALLOWANCES**  
 CERTIFICATE OF COMPLIANCE  
 Project Name: **EAST SIDE UNION HIGH SCHOOL DISTRICT** Date: **02-21-2017**

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A	B	C	D	E	F	G	H	I
Automotive Hardscape	46,500	0.09	4185	910	0.6	546	770	5501
TOTAL								

REVISIONS

BY	
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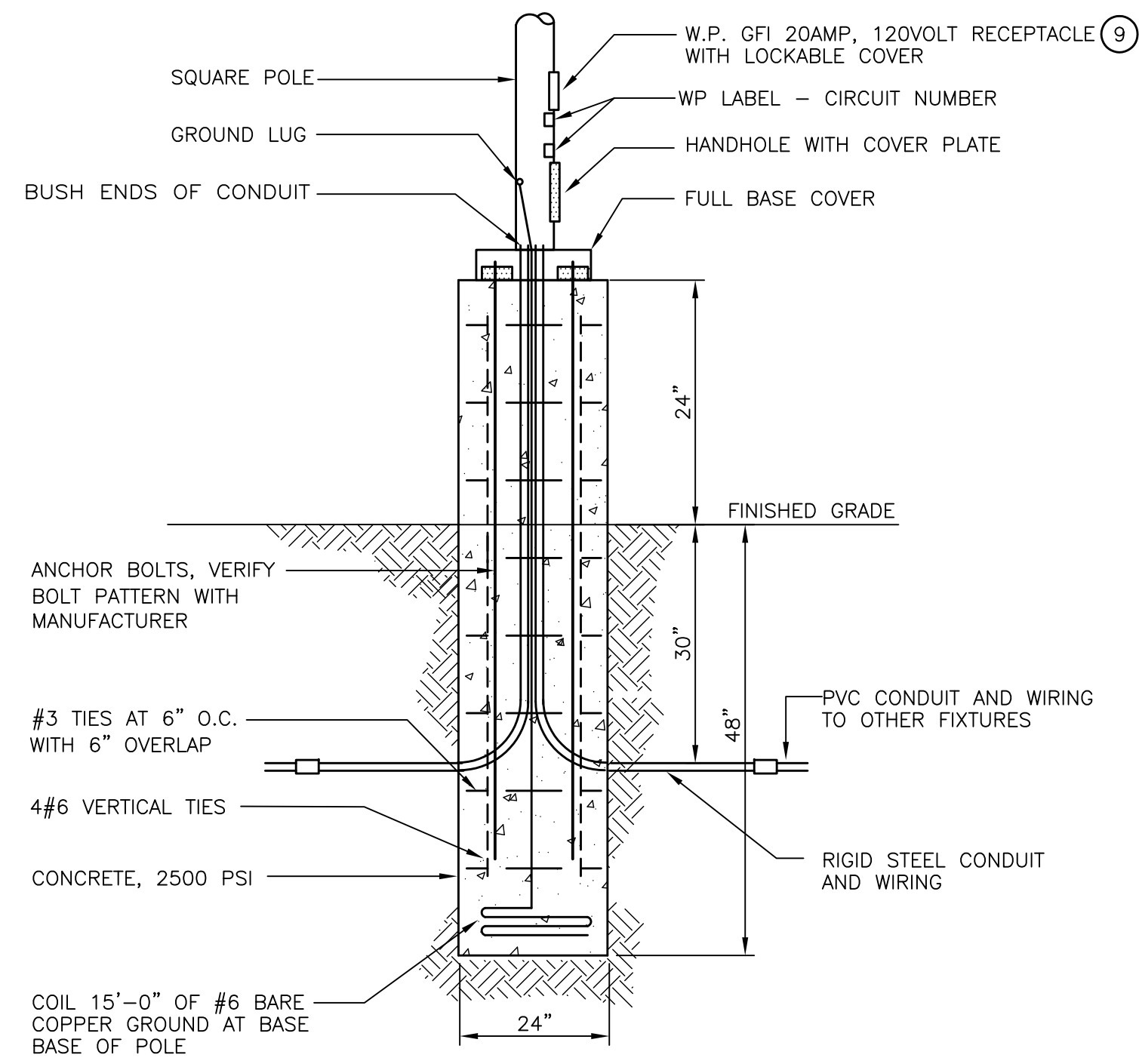
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**East Side Union High School District**  
 District Transportation Yard  
 830 North Capitol Avenue  
 San Jose, California

Date: 02-23-2017  
 Scale:  
 Drawn: RESA  
 Job: 1704  
 Sheet

# E0.2

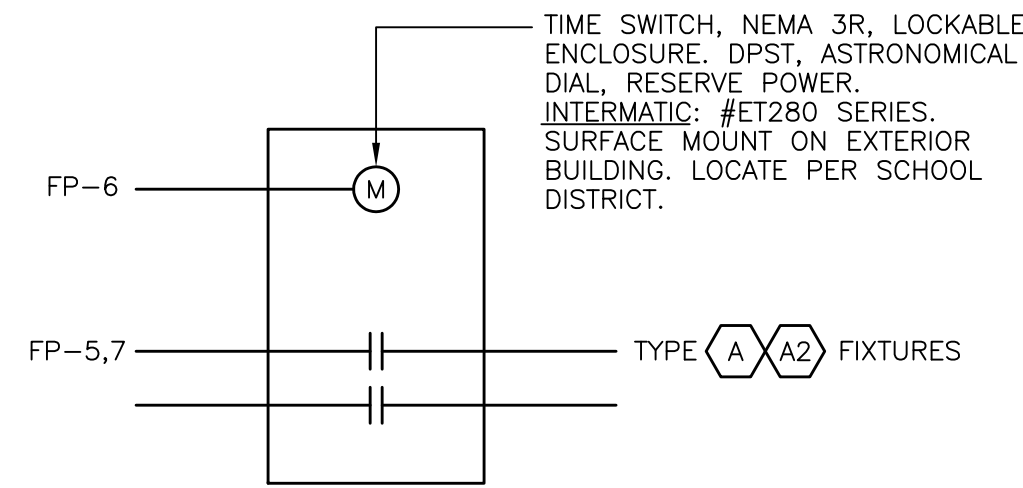
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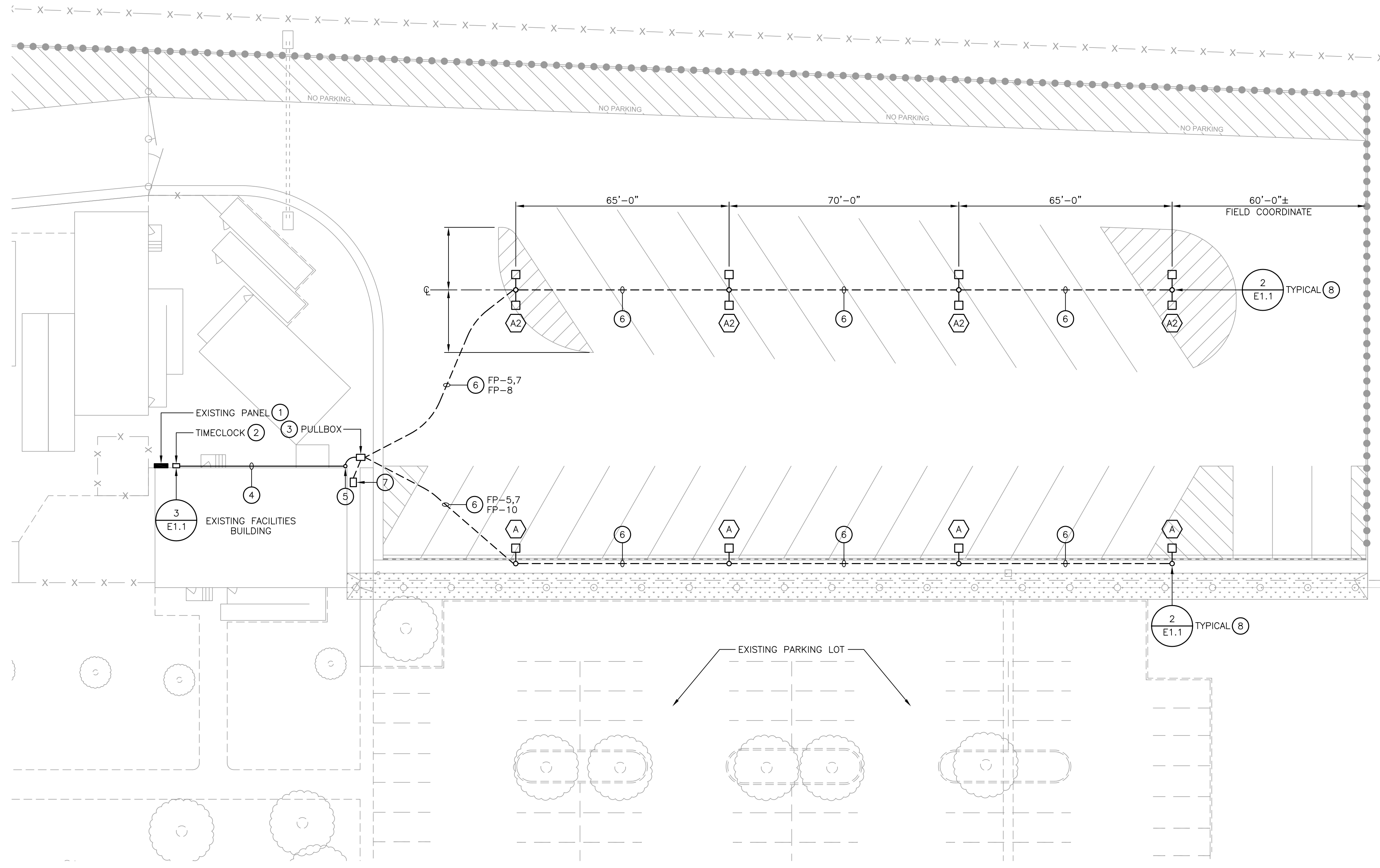
**2 BASE DETAIL**  
E1.1 SCALE: NOT TO SCALE

PANEL FP (EXISTING)											
EQUIPMENT				LOCATION: EXTERIOR				EQUIPMENT			
	LOAD	BREAKER POLE	TRIP	CIRCUITS	BREAKER POLE	TRIP	LOAD				
EXISTING	61020	2	90	1	2	2	7250	EXISTING			
	61020			3	4		100	7250			
NEW LIGHTING AT PARKING LOT	610	2		5	6	1	15	300	NEW TIMECLOCK		
	610			7	8		20	900	POLE RECEPTACLE		
LANDSCAPE CONTROLLER	500	1	20	9	10		20	900	POLE RECEPTACLE		
CONNECTED LOAD: 15											

CIRCUIT FP-5,7, FOR TYPE A2 FIXTURE  
VD=2.2%  
CIRCUIT FP-5,7 FOR TYPE A FIXTURE  
VD=1.6%



**3 EXTERIOR LIGHTING CONTROLS**  
E1.1 SCALE: NOT TO SCALE

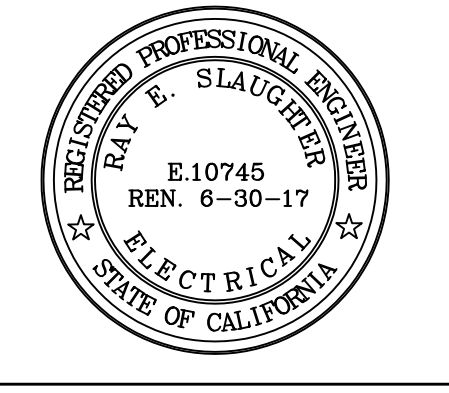


**1 PARKING LOT LIGHTING SITE PLAN**  
E1.1 SCALE: 1"=20'-0"

**SHEET NOTES**

1. INSTALL NEW BREAKERS IN EXISTING PANEL FOR LIGHTING, TIMECLOCK AND RECEPTACLE. MATCH EXISTING ATC RATING.
2. NEW NEMA 3R INTERMATIC TIMECLOCK, 120VOLT ASTRONOMICAL DIAL. LOCKABLE COVER.
3. CHRISTY N9 PULLBOX. FLUSH WITH GRADE. FIELD VERIFY LOCATION.
4. BRANCH CIRCUIT CONDUITS ALONG SIDE OF BUILDING. COORDINATE ROUTE WITH DISTRICT. EMT CONDUIT WITH COMPRESSION FITTINGS AND COPPER CONDUCTORS. 3/4" 4#10, 2#10 GROUND FOR POLE LIGHTING/RECEPTACLE, 3/4" 2#10, 1#12 GROUND FOR LANDSCAPE CONTROLLER.
5. DOWN SIDE OF BUILDING. FIELD VERIFY.
6. 3/4" 2#10, 1#10 GROUND LIGHTING CIRCUIT AND 2#10, 1#10 GROUND RECEPTACLE CIRCUIT. MINIMUM 24" BELOW GRADE OR DEPTH PER SCHOOL DISTRICT.
7. WALL MOUNTED LANDSCAPE CONTROLLER, 120VOLT, HARD WIRED CONNECTION. FIELD VERIFY LOCATION PRIOR TO ROUGH-IN ON WALL OR ON PEDESTAL. SEE LANDSCAPE DRAWINGS.
8. REFER TO MANUFACTURE SUBMITTAL SHEETS FOR SINGLE HEAD AND DUAL HEAD MOUNTING REQUIREMENTS.
9. POLE RECEPTACLE NOT ON TIME SWITCH CONTROL.

REVISIONS	BY

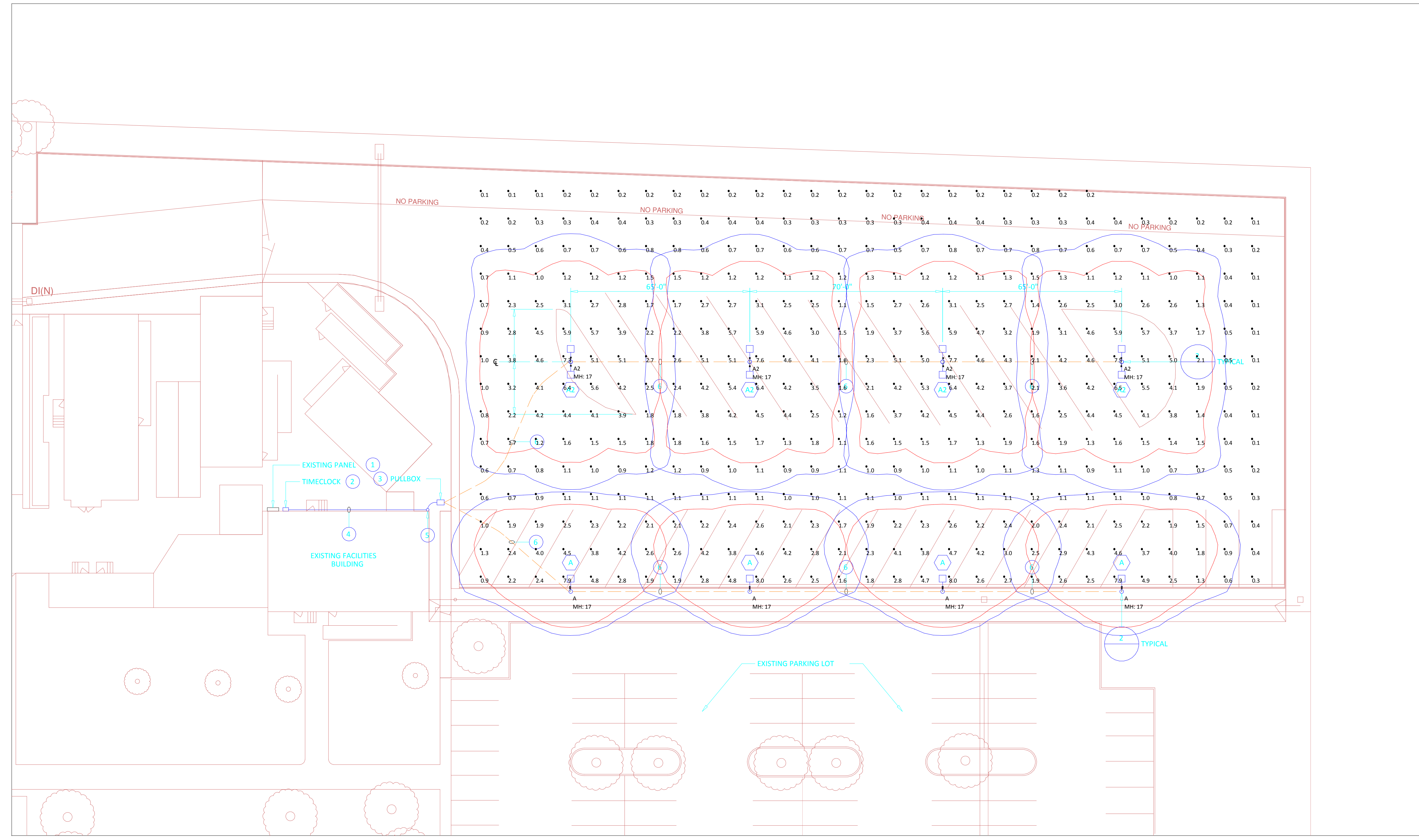


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**East Side Union High School District**  
District Transportation Yard  
830 North Capital Avenue  
San Jose, California

**PARKING LOT LIGHTING SITE PLAN**

Date: 02-23-2017  
Scale: 1"=20'-0"  
Drawn: RESA  
Job: 1704  
Sheet



Plan View  
Scale: 1 inch= 20 Ft.

Luminaire Schedule						
Symbol	Qty	Label	Description	LLF	Lum. Lumens	Lum. Watts
—□	4	A	Cree BXSP-B-HT-3ME-B-40K-UL-BZ-ML	0.846	10260	99.07
□	4	A2	Cree BXSP-B-HT-4ME-B-40K-UL-BZ-ML (2@180)	0.846	9758	101

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking	Illuminance	Fc	2.08	8.0	0.1	20.80	80.00

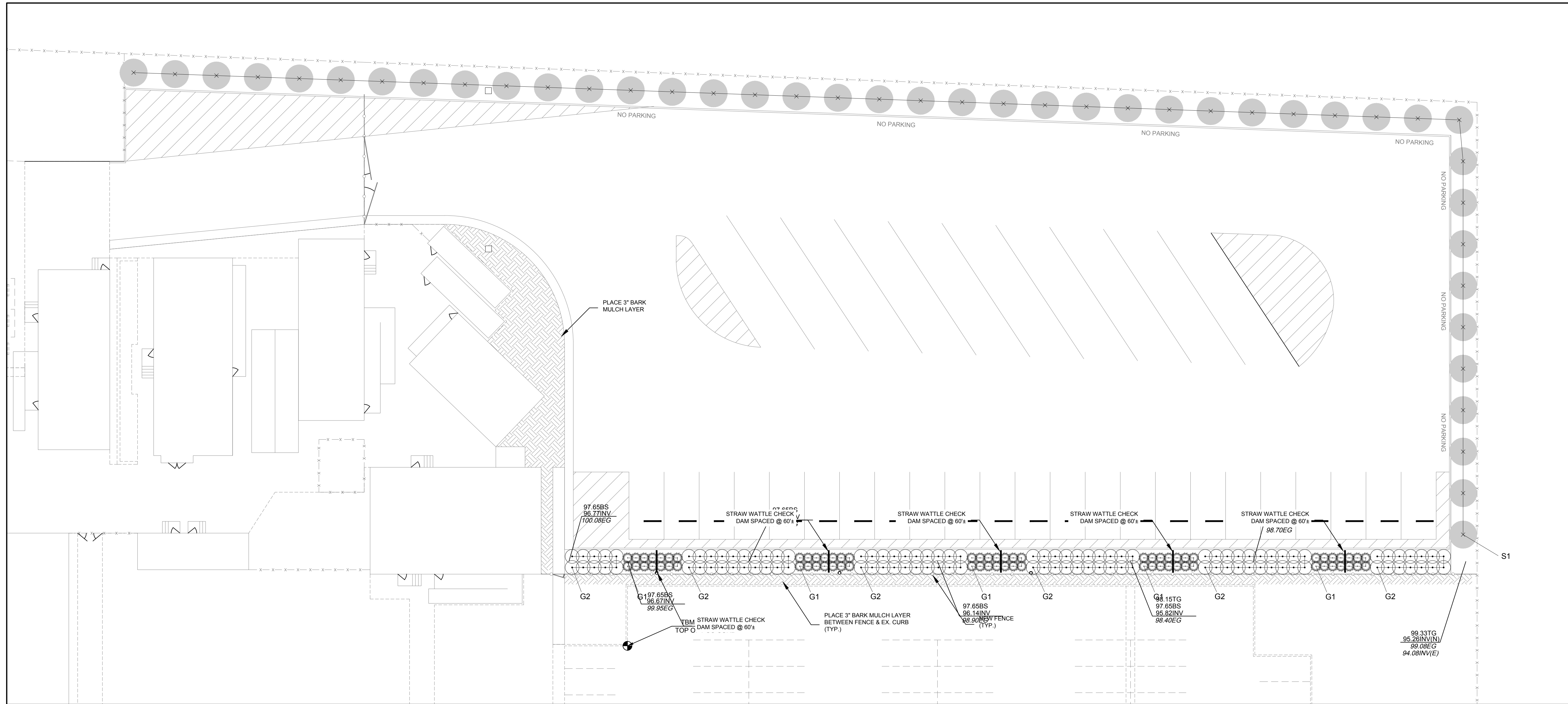
**East Side Education Center**

Filename: East Side Education Center\_HH\_2-16-17.AGI

Date: 2/16/2017

Calcs by: Cain Boulden  
Voice: (510) 499-9313  
cainb@ltgsys.com

This report attempts to approximate the maintained light levels and is based on the information provided to Lighting Systems. Please verify data to ensure accuracy of the report. Many factors that can affect field-measured lighting levels cannot be anticipated in the calculation and as such Lighting Systems cannot warranty lighting levels.



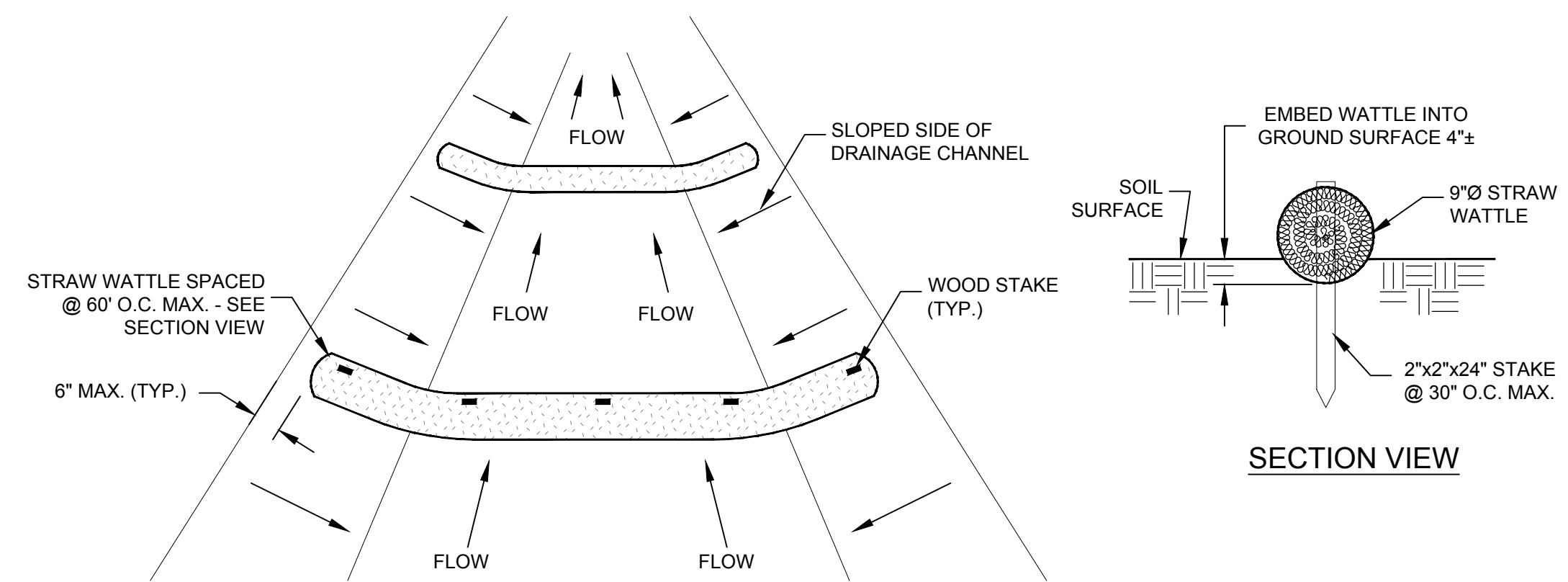
PLANT LEGEND				
SYMBOL	QTY.	SIZE	BOTANICAL NAME / COMMON NAME	SPACING / NOTES
S1	43	15	Juniperus c. 'Kaizuka' / Hollywood Juniper	Spaced @ 15' o.c. max.
G1	70	1	Panicum virgatum / Switchgrass	Spaced @ 30" o.c. max.
G2	104	1	Cotoneaster d. 'Lowfast' / Bearberry Cotoneaster	Spaced @ 48" o.c. max.

**PLANTING NOTES:**

- PLANT COUNT SHOWN IS FOR THE CONVENIENCE OF THE CONTRACTOR AND DOES NOT NECESSARILY INDICATE THE EXACT AMOUNTS REQUIRED TO EXECUTE THE LANDSCAPE PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXECUTION OF THE PLAN AS DRAWN. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO THE BID.
- ALL NEW LANDSCAPED AREAS, & THOSE AREAS SHOWN ON THE PLANTING PLAN, TO BE TOP-DRESSED WITH A 3" LAYER OF SHREDDED BARK MULCH. NO PLASTIC OR IMPERMEABLE SURFACING SHALL BE ALLOWED BENEATH MULCH.
- INSTALL GROUND COVER PLANTS NO CLOSER THAN 30" FROM EDGE OF PLANTER AREA.
- BIOSWALE PLANTING MIX: HYDROPHILIC PLANT MIX PER SANTA CLARA VALLEY URBAN POLLUTION PROGRAM GUIDELINES. AVOID COMPACTION DURING & POST-CONSTRUCTION. PLACE SOIL IN 12" MAX. LIFTS. WET TO CONSOLIDATE. DO NOT MECHANICALLY TAMP OR COMPACT SOILS DURING INSTALLATION.
- PRIOR TO ANY PLANTING OR IRRIGATION WORK, CONTRACTOR SHALL ENSURE THAT ALL LIME-TREATED SOIL HAS BEEN REMOVED FROM PLANTER AREAS. CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE TO TEST FOR LIME IN PLANTER AREAS PRIOR TO COMMENCING LANDSCAPING WORK.
- SOILS IN ALL NEW PLANTER AREAS (EXCEPT WHERE SPECIFICALLY INDICATED FOR BIOSWALE PLANTING MIX) SHALL INCORPORATE COMPOST AT A RATE OF AT LEAST 4 CY PER 1,000 SF TO A DEPTH OF SIX INCHES (UNLESS CONTRA-INDICATED BY A SOILS FERTILITY TEST).

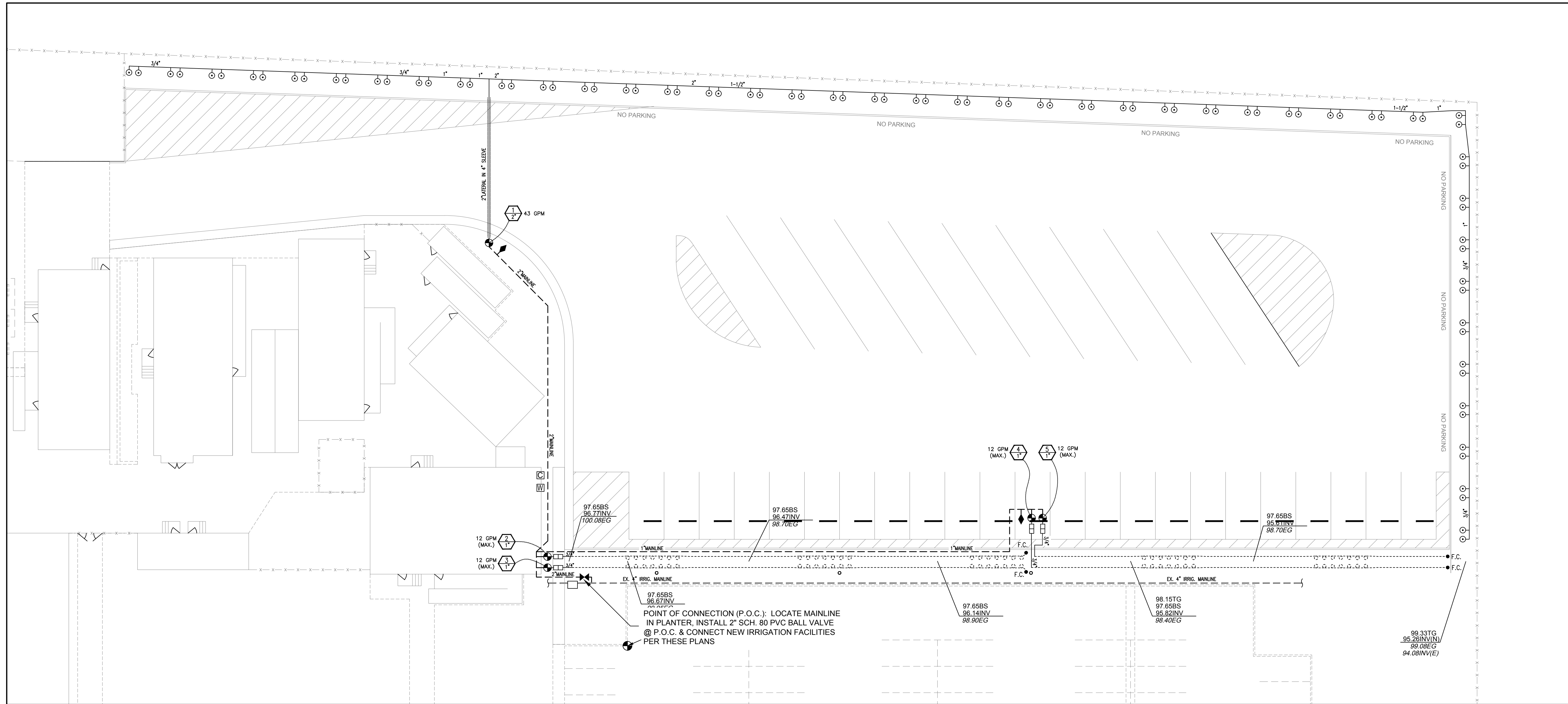
**PLANTING IMPROVEMENTS**

1" = 20'



**STRAW WATTLE CHECK DAM INSTALLATION**  
NTS

APP					
DESCRIPTION					
REV		DATE			
<p style="text-align: center;"> <b>Pavement Engineering Inc.</b>  <i>You can ride on our reputation</i>            Corporate Office: 5000 River Drive, Suite A            San Luis Obispo, CA 93401-6015            805-791-2885         </p>					
<p style="text-align: center;"> <b>EAST SIDE UNION HIGH SCHOOL DISTRICT</b>            830 N. CAPITOL AVENUE            SAN JOSE, CA  <b>2017 TRANSPORTATION YARD RELOCATION PROJECT</b>  <b>PLANTING IMPROVEMENT PLAN</b> </p>					
<p>DRAWN BY: <b>MPW</b></p> <p>PROJECT NUMBER: <b>160290</b></p> <p>SCALE: <b>1" = 20'</b></p> <p>DATE: <b>JAN. 2017</b></p> <p>SHEET NUMBER: <b>L1</b></p>					



**IRRIGATION IMPROVEMENTS**  
1" = 20'

IRRIGATION LEGEND		
SYM	MODEL	DESCRIPTION
⊙	RWS-B-C-1402	RAINBIRD DEEP ROOT WATERING SYSTEM (W/BUBBLER) - 1/2 GPM
⊕	PEB SERIES VALVE	RAINBIRD REMOTE CONTROL VALVE (SIZE PER PLAN)
⊕	VALVE NO.	
⊕	VALVE SIZE	
⊕	PC-300	HUNTER PC-300 (OUTDOOR) IRRIGATION CONTROLLER (SEE NOTE 4)
⊕	WR2	RAINBIRD WR2-RC WIRELESS RAIN SENSOR (SEE NOTE 5)
◆	44-RC	RAINBIRD QUICK COUPLER, 1"
---		SCHEDULE 80 PVC MAINLINE - SIZES SHOWN
----		SCHEDULE 40 PVC LATERAL - SIZES SHOWN
----		NETAFIM TECHLINE TLDL6-12 (SEE TECHLINE NOTES)
□	PMR-MF	3/4" SENNINGER PRESSURE REGULATOR
□	TF-075	3/4" NETAFIM TECH FILTER (SEE TECHLINE NOTES)
F.C.	TLFV-1	NETAFIM FLUSHING END CAP

**IRRIGATION NOTES:**

- ALL IRRIGATION FOR THIS SITE WILL BE ACCOMPLISHED WITH LOW-FLOW BUBBLERS SET BELOW GRADE IN PERFORATED TUBING & DRIP-LINE BY NETAFIM. NO SPRINKLER OR ROTOR SYSTEMS WILL BE UTILIZED.
- IN SOME INSTANCES IRRIGATION COMPONENTS ARE SHOWN OUTSIDE OF LANDSCAPE OR PLANTER AREAS FOR THE SAKE OF CLARITY. INSTALL ALL VALVES IN LANDSCAPE AREAS. INSTALL IRRIGATION LATERALS AND MAINLINE IN LANDSCAPE AREAS WHENEVER POSSIBLE.
- ALL IRRIGATION PIPE UNDER HARDSCAPE SURFACES SHALL BE INSTALLED IN SLEEVES. AS A MINIMUM SLEEVE SHALL BE AT LEAST 2 PIPE SIZES LARGER THAN IRRIGATION LINE (IF NOT OTHERWISE SPECIFIED ON PLANS).
- NEW RAINBIRD IRRIGATION CONTROLLER TO BE MOUNTED ON EXTERIOR WALL OF BUILDING (FINAL LOCATION BY OWNER). COORDINATE W/ELECTRICAL FOR POWER TO CONTROLLER.
- INSTALL RAINBIRD WIRELESS RAIN SENSOR ON BUILDING (FINAL LOCATION BY OWNER) PER MANUFACTURER'S RECOMMENDATIONS.
- ALL NEW IRRIGATION VALVES TO HAVE CHRISTY STANDARD SIZE I.D. TAGS.

**TECHLINE NOTES:**

- 3/4" SENNINGER PRESSURE REGULATOR AND 3/4" NETAFIM TECH-FILTER TO BE INSTALLED TOGETHER IN A JUMBO VALVE BOX.
- BURY NETAFIM TECHLINE 2" DEEP IN ALL PLANTER AREAS. PIN TUBING EVERY 5' MAX. TECHLINE PLACEMENT AS SHOWN ON THE DRAWINGS IS SCHEMATIC ONLY - SEE TECHLINE INSTALLATION DETAILS FOR PLACEMENT AROUND PLANT MATERIAL.
- EACH TERMINATION POINT OF TECHLINE SHALL HAVE A NETAFIM FLUSHING END CAP INSTALLED IN A 7" ROUND LANDSCAPING BOX FOR EASY ACCESS.

**EAST SIDE UNION HIGH SCHOOL DISTRICT**  
830 N. CAPITOL AVENUE  
SAN JOSE, CA  
2017 TRANSPORTATION YARD RELOCATION PROJECT  
**IRRIGATION IMPROVEMENT PLAN**

*Pavement Engineering Inc.*  
You can ride on our reputation  
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805-791-2885

DRAWN BY: **MPW**  
PROJECT NUMBER: **160290**  
SCALE: **1" = 20'**  
DATE: **JAN. 2017**  
SHEET NUMBER:

**L2**

REV	DATE	DESCRIPTION	APP