

LAS POSAS ELEMENTARY SCHOOL
75 EAST CALLE LA GUERRA
CAMARILLO, CA 93010

GENERAL NOTES

1. AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE REGIONAL NOTIFICATION CENTER (UNDERGROUND SERVICE ALERT) OF SOUTHERN CALIFORNIA - U.S.A. (AT 811) TO OBTAIN AN INQUIRY IDENTIFICATION NUMBER AND TO REQUEST THE UTILITY OWNERS TO MARK OR OTHERWISE INDICATE THE LOCATION OF THEIR SUBSURFACE FACILITIES. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES, INCLUDING ALL SERVICE CONNECTIONS, WHICH HAVE BEEN MARKED BY THE RESPECTIVE OWNERS WHICH MAY AFFECT OR BE AFFECTED BY ITS OPERATIONS. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL UTILITIES AND ALL STRUCTURES FOUND AT THE SITE.
2. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. THE CONTRACTOR SHALL ALSO ABATE DUST AND NUISANCE BY SWEEPING AND SWEEPING AND SPRINKLING WITH WATER AND USING DUST FENCES OR OTHER METHODS AS DIRECTED BY THE DISTRICT REPRESENTATIVE THROUGHOUT THE CONSTRUCTION OPERATION.
3. THE CONTRACTOR SHALL KEEP A STRICT RECORD OF ALL CHANGES AND SUBMIT THIS RECORD TO THE DISTRICT REPRESENTATIVE. "AS-BUILT" PLANS SHALL BE PROVIDED TO THE DISTRICT.
4. ALL DAMAGE CAUSED TO PUBLIC STRIPS, INCLUDING HAUL ROUTES, ALLEYS, SIDEWALKS, CURBS OR STREET FURNISHINGS, OR TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE DISTRICT REPRESENTATIVE'S SATISFACTION.
5. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY EXISTING BROKEN OR DAMAGED SIDEWALK, CURB, AND GUTTER AS DIRECTED BY THE DISTRICT REPRESENTATIVE.
6. SAWCUTTING OF EXISTING PAVEMENT SHALL BE TO A CLEAN STRAIGHT EDGE AS DIRECTED BY THE DISTRICT REPRESENTATIVE.
7. ALL UNDERGROUND UTILITIES SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF CURBS, SIDEWALKS, SIDEWALKS AND PAVEMENTS.
8. WHERE JOINING THE EXISTING PAVEMENT, SAWCUT TO SOUND PAVEMENT AND OVERLAY AS REQUIRED TO PROVIDE PROPER GRADE AND 2% CROSS-SLOPE. ANY UNSOUND PAVEMENT SHALL BE REPLACED.
9. ALL MANHOLE RIMS, LIDS, VALVE BOXES AND OTHER APPURTENANCES SHALL BE SET TO FINISH GRADE BY THE CONTRACTOR AS PART OF THIS PROJECT.
10. A PRECONSTRUCTION CONFERENCE OF ALL INTERESTED PARTIES SHALL BE HELD PRIOR TO ANY CONSTRUCTION OR GRADING TO ANSWER ANY QUESTIONS OR TO CLARIFY ANY PORTION OF THESE GRADING PLANS.
11. ALL RECOMMENDATIONS MADE BY THE SOILS ENGINEER CONTAINED IN THE REPORT BY GEOTECHNIQUES, DATED APRIL 14, 2023 (REV. JANUARY 30, 2026), SHALL BE A PART OF THIS GRADING PLAN.
12. ALL DELETERIOUS MATERIAL, SUCH AS LUMBER, LOGS, BRUSH, OR ANY OTHER ORGANIC MATERIALS OR RUBBISH, SHALL BE REMOVED FROM ALL AREAS TO RECEIVE COMPACTED FILL.
13. UNSUITABLE MATERIAL, SUCH AS TOP SOIL, WEATHERED BED ROCK, ETC., SHALL BE REMOVED AS REQUIRED BY THE SOILS ENGINEER FROM ALL AREAS TO RECEIVE COMPACTED FILL OR DRAINAGE STRUCTURES.
14. ALL AREAS TO RECEIVE COMPACTED FILL SHALL BE INSPECTED AND APPROVED BY THE SOILS ENGINEER AFTER REMOVAL OF UNSUITABLE MATERIAL AND EXCAVATION OF KEYWAYS AND BENCHES, AND PRIOR TO PLACEMENT OF SUBSURFACE DRAINAGE SYSTEMS OR ANY FILL.
15. ALL SOIL OR ROCK MATERIALS DEEMED UNSUITABLE FOR PLACEMENT IN COMPACTED FILL SHALL BE REMOVED FROM THE SITE. ANY MATERIAL SUCH AS CONCRETE OR IMPORTED MATERIALS SHALL BE APPROVED BY THE SOILS ENGINEER PRIOR TO USE IN COMPACTED FILL.

SURVEY NOTES

- ## 1. MAPPING

TOPOGRAPHIC MAPPING WAS COMPILED AT A SCALE OF 1"=20', WITH A 1 FOOT CONTOUR INTERVAL, USING STANDARD PHOTOGRAMMETRIC METHODS AND PROCEDURES BY CENTRAL COAST AERIAL MAPPING, INC. FROM AERIAL PHOTOGRAPHY OBTAINED ON JANUARY 23, 2020.

MAPPING IS SUPPLEMENTED BY DATA COLLECTED FROM A FIELD SURVEY USING CONVENTIONAL EQUIPMENT AND PROCEDURES IN DECEMBER, 2021, JANUARY, 2022, NOVEMBER 2022 & JANUARY 2023 AT THE REQUEST OF PLEASANT VALLEY SCHOOL DISTRICT.

- ## 2. BASIS OF BEARINGS AND COORDINATES

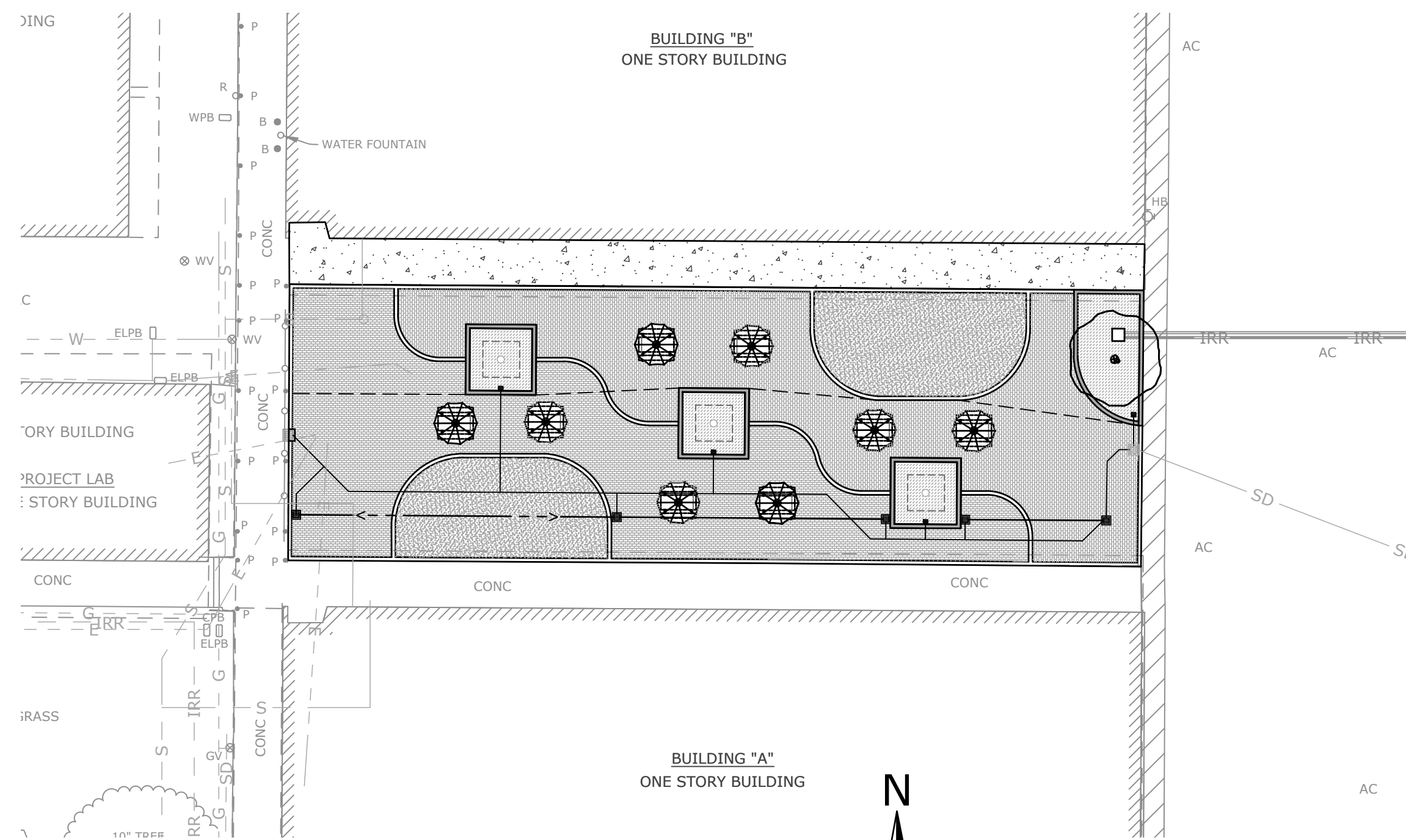
THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM NAD83, ZONE 5, EPOCH 2010.00 AS DETERMINED LOCALLY BY GPS TIES TO CONTINUOUS OPERATING REFERENCE STATIONS (CORS) TOST, SAID COORDINATE DERIVED FROM GEODETIC VALUES PUBLISHED BY THE NATIONAL GEODETIC SURVEY (NGS).

- ### 3. ELEVATIONS

THE VERTICAL DATUM OF THIS SURVEY IS NAVD88 PER TIES TO LOCAL CONTROL POINTS 1, 4 AND 8, ESTABLISHED BY RIGHT ANGLE SURVEY AND PROVIDED TO ECG BY THE PLEASANT VALLEY SCHOOL DISTRICT.

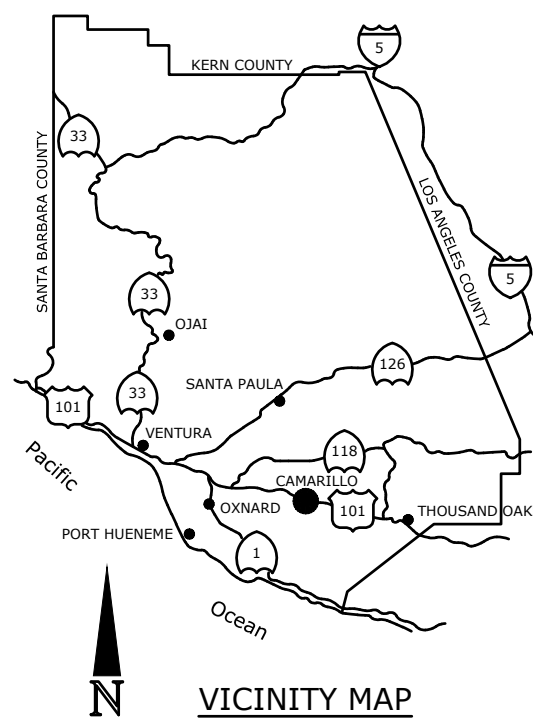
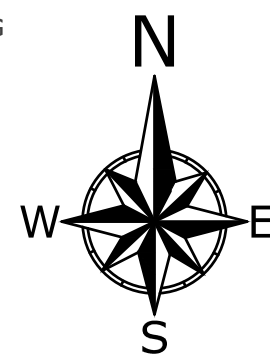
- #### 4. UTILITIES

SURFACE UTILITY FEATURES SHOWN HEREON WERE LOCATED AS A PART OF THE FIELD SURVEY PERFORMED BY ECG BASED ON VISIBILITY ON THE DATE OF SURVEY. NO RESEARCH OR MAPPING OF SUBSURFACE UTILITIES HAS BEEN PERFORMED.



KEY MAP

SCALE: 1"=50'

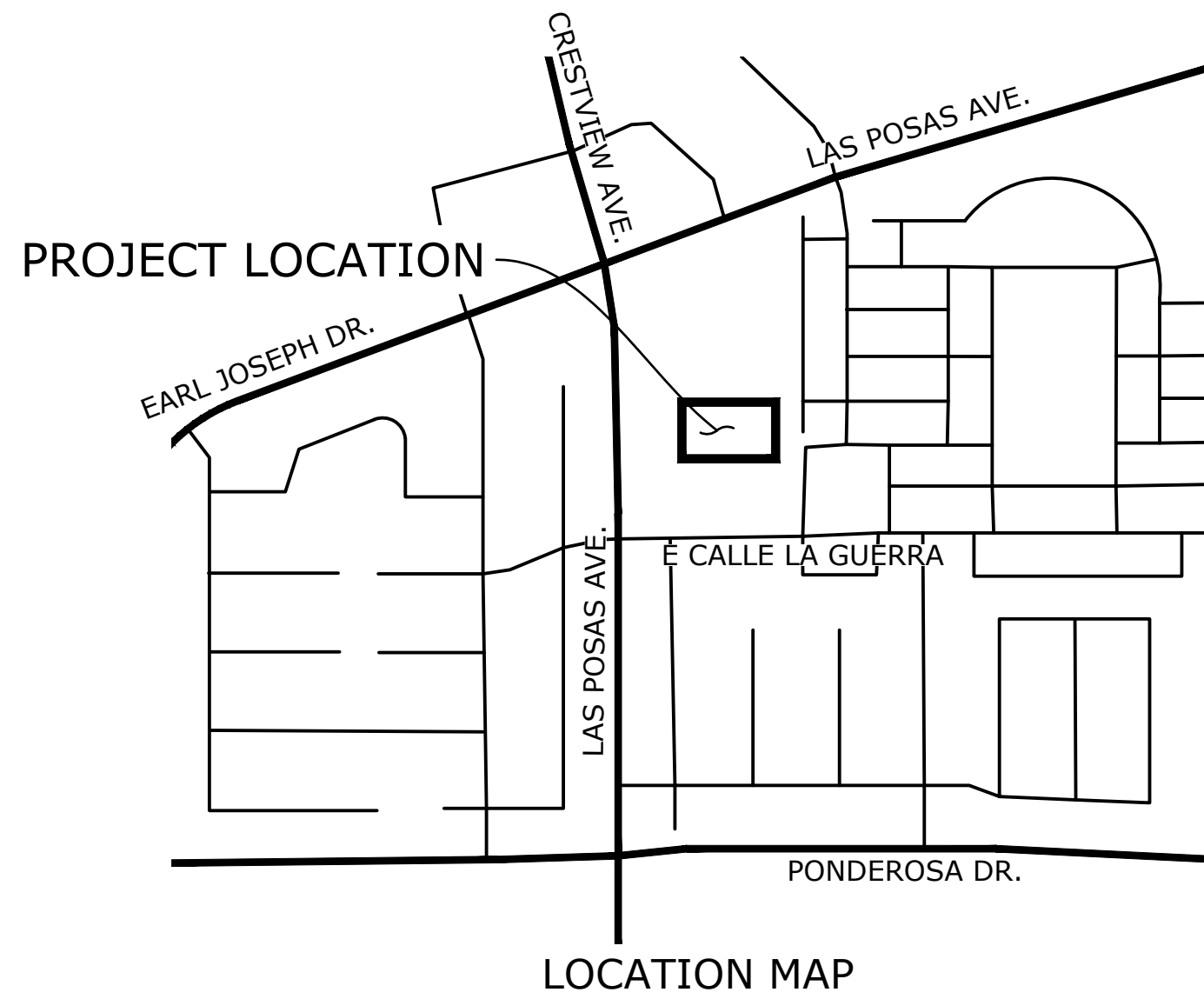


SHEET INDEX

SHEET NO.	DESCRIPTION
01	TITLE SHEET
02	DEMOLITION PLAN
03	EROSION CONTROL PLAN
04	EROSION CONTROL DETAILS
05	GRADING PLAN
06	UTILITY PLAN
07	DETAILS SHEET

EXISTING UTILITY NOTES

1. THE GENERAL CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AND NOTIFY APPROPRIATE UTILITY AGENCIES TO VERIFY AND LOCATE ALL EXISTING UNDERGROUND UTILITIES BEFORE COMMENCING ANY EXCAVATION.
2. THE GENERAL CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY ALL EXISTING UTILITIES AT POINT OF CONNECTIONS, AND CROSSINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DISTRICT REPRESENTATIVE.
3. THE LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY; ALL UTILITIES MAY NOT BE SHOWN.
4. SOME IRRIGATION PIPING AND ELECTRICAL CONDUIT LOCATIONS AND SIZES ARE UNKNOWN AND NOT IDENTIFIED HEREON.
5. SUBSURFACE UTILITIES SHOWN HEREON HAVE BEEN COMPILED FROM RECORD INFORMATION GATHERED FROM VARIOUS SOURCES. THE SUBSURFACE INFORMATION, INCLUDING LOCATION, SIZES, AND CAPACITIES IS AN ESTIMATION BASED ON AVAILABLE DATA AND MAY NOT REPRESENT ACTUAL FIELD CONDITIONS. ENCOMPASS CONSULTANT GROUP DOES NOT WARRANT THE ACCURACY OF COMPLETENESS OF SAID RECORD INFORMATION.
6. THE CONTRACTOR, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, UNDERSTANDS THAT THEY AGREE TO ASSUME LIABILITY, AND AGREE TO HOLD THE UNDERSIGNED HARMLESS FOR ANY LIABILITY FOR DAMAGE RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED, NOT INDICATED ON THE RECORDS PROVIDED, LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON AVAILABLE RECORDS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE PROJECT SITE. THE UNDERSIGNED SHALL NOT BE RESPONSIBLE TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING TO WORK.
7. THE CONTRACTOR SHALL MAINTAIN EXISTING UTILITY SERVICES TO BUILDINGS OR OTHER STRUCTURES INTENDED TO REMAIN IN OPERATIONAL SERVICE DURING THE COURSE OF CONSTRUCTION.



ABBREVIATIONS

PER SSPWC SECTION 1-3 AND SPPWC STANDARD
PLAN 100-1 UNLESS OTHERWISE NOTED HEREON

ADA	ASPHALT CONCRETE
ADA	AMERICANS WITH DISABILITIES ACT
ARCH.	ARCHITECT
BC	BEGIN CURVE
BCR	BEGIN CURB RETURN
BDY	BOUNDARY
BEG	BEGIN
BFP	BACKFLOW PREVENTER
BUDS	BUTTS
BVC	BOTTOM OF PIPE
BW	BEGIN VERTICAL CURVE
BW	BOTTOM OF WALL
B/W	BETWEEN
CB	CATCH BASIN
CF	CUBIC FEET
CFS	CUBIC FEET PER SECOND
C.L. or CL	CENTERLINE
CL	CLASS
CLF	CHAIN LINK FENCE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
DBL	DOUBLE
DI	DROP INLET
DIA	DIAMETER
DRW	DRAWING
EBAA	EBAA IRON, INC.
EC	END CURVE
ECR	END CURB RETURN
ELEC	ELECTRIC
ELEV	ELEVATION
E'LY	EASTERLY
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EVV	END VERTICAL CURVE
FF	FINISH FLOOR
FG	FINISH GRADE
FL	FLOWLINE
FS	FINISH SURFACE
FTS	FEET PER SECOND
FUT	FUTURE
GB	GRADE BREAK
GM	GAS METER
GV	GAS VALVE
HGL	HYDRAULIC GRADE LINE
HP	HIGH POINT
HW	HEADWALL
ICV	IRRIGATION CONTROL VALVE
INV	INVERT
IRR	IRRIGATION
LAT	LATERAL
LF	LINEAR FEET
LP	LOW POINT
LT	LEFT
MAX	MAXIMUM
MH	MANHOLE
MOC	MIDDLE OF CURVE
N'LY	NORTHERLY
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CURB OR ON CURVE
O/C	ON CENTER
OHW	OVERHEAD WIRE
PB	PULL BOX
P.C.C.	PORTLAND CEMENT CONCRETE
	POINT OF COMPOUND CURVATURE
P.E.	POLYETHYLENE
PL	PROPERTY LINE
PMB	PROCESSED MISC. BASE
PRC	POINT OF REVERSE CURVATURE
PT	POINT
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
RCP	REINFORCED CONCRETE PIPE
RET	RETAINING
R.O.W.	RIGHT OF WAY
RT	RIGHT
RW	RECYCLED WATER
R/W	RIGHT OF WAY
SCO	SEWER CALIFORNIA EDISON
SCE	SEWER CLEAN OUT
SD or S.D.	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SDT	STANDARD DIMENSION RATIO
S'LY	SOUTHERLY
SMH	SEWER MANHOLE
SPWVC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
SS	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
SPWVC	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION
STD	STANDARD
SW	STRUCTURE
TC	TOP OF CURB
TEL	TELEPHONE
TG	TOP OF GRATE
TH	TRAFFIC INDEX
TMH	TELEPHONE MANHOLE
TOE	TOP OF SLOPE
TOP	TOP OF SLOPE OR PIPE
TRANS	TRANSITION
TP	TOP OF WALL
TYP	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VAR	VARIABLE
VAL	VALVE
W'LY	WESTERLY
WM	WATER METER
WSEL	WATER ELEVATION
WV	WATER VALVE
YR	YEAR

BID SET DATE: 02-04-2026



Know what's **below**.
Call before you dig.

REVISIONS			
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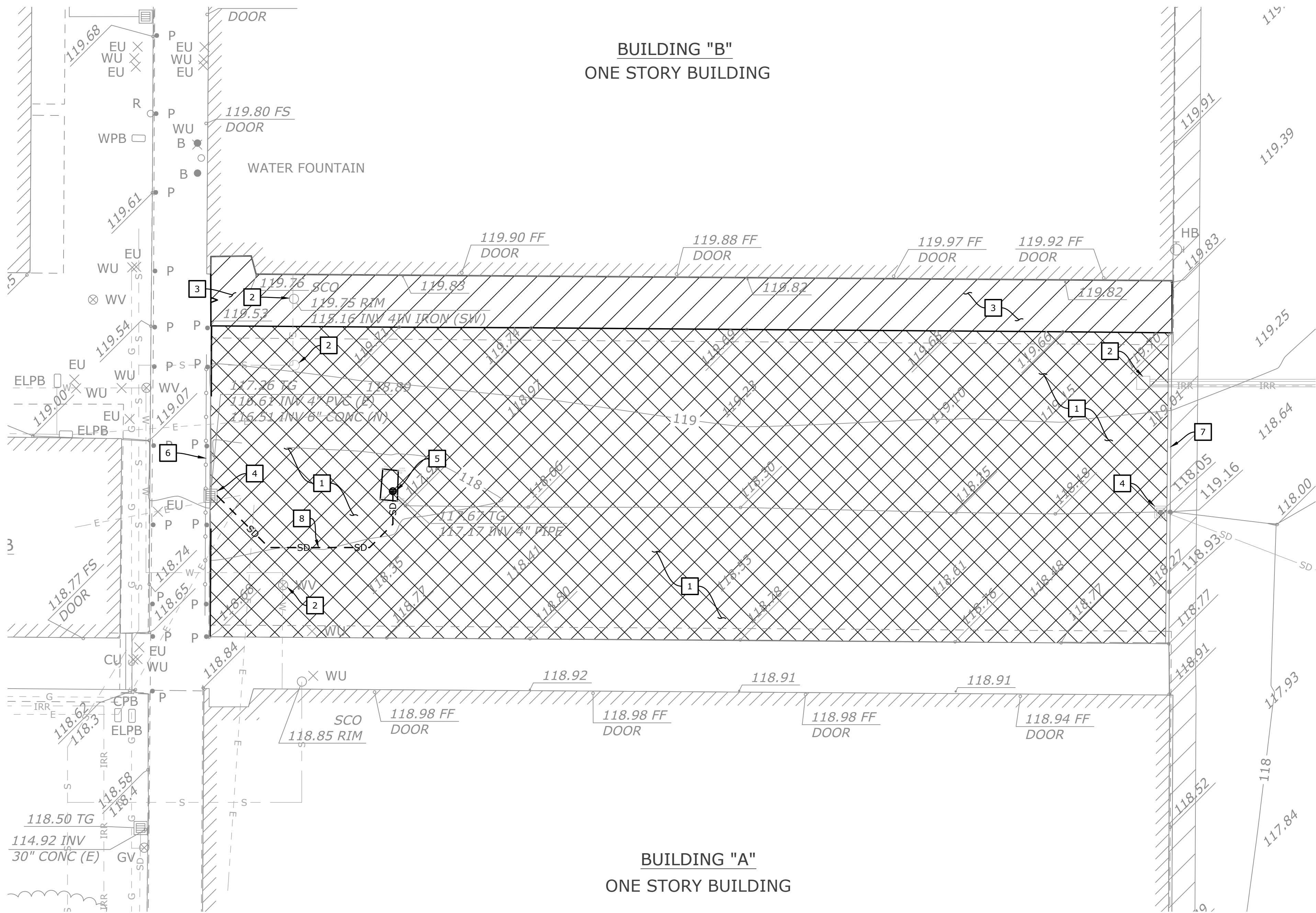


TRISTAN J. SANTOS DATE: 02/02/2026
PROJECT ENGINEER
R.C.E.

FB-26-05 CENTRAL QUAD REMODEL
LAS POSAS ELEMENTARY SCHOOL
TITLE SHEET
75 E CALLE LA GUERRA, CAMARILLO, CA 93010

SCALE: HORIZ. _____ VERT. _____	
WORK ORDER 0696	SHEET NO. <u>1</u> OF 7
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CAUTION: UNDERGROUND STRUCTURES

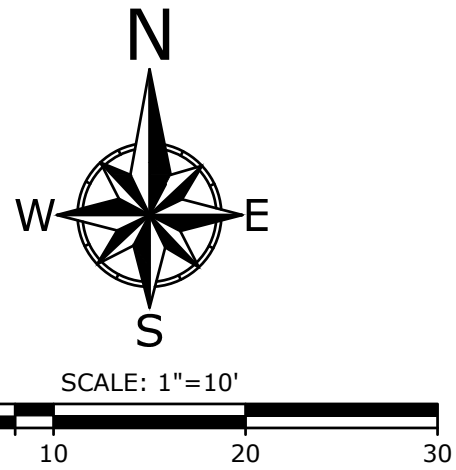
ALL UNDERGROUND UTILITIES OR STRUCTURES REPORTED BY THE DISTRICT OR THOSE SHOWN ON RECORDS EXAMINED ARE INDICATED WITH THEIR APPROXIMATE LOCATION AND EXTENT. THE CONTRACTOR, BY ACCEPTING THESE PLANS OR PROCEEDING WITH IMPROVEMENTS PURSUANT THERETO, UNDERSTANDS THAT THEY AGREE TO ASSUME LIABILITY, AND AGREE TO HOLD THE UNDERSIGNED HARMLESS FOR ANY LIABILITY FOR DAMAGE RESULTING FROM THE EXISTENCE OF UNDERGROUND UTILITIES OR STRUCTURES NOT REPORTED TO THE UNDERSIGNED, NOT INDICATED ON THE PUBLIC RECORDS EXAMINED, OR LOCATED AT VARIANCE WITH THAT REPORTED OR SHOWN ON RECORDS EXAMINED. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES FOUND AT THE SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING TO WORK.

LEGEND

	PAVEMENT REMOVAL
	CONCRETE REMOVAL
	PROPOSED SAWCUT LINE
	EXISTING SANITARY SEWER (PROTECT IN PLACE)
	EXISTING GAS LINE (PROTECT IN PLACE)
	EXISTING DOMESTIC WATER (PROTECT IN PLACE)
	EXISTING IRRIGATION WATER (PROTECT IN PLACE)
	EXISTING STORM DRAIN (PROTECT IN PLACE)
	EXISTING ELECTRICAL LINE (PROTECT IN PLACE)
	EXISTING CHAIN LINK FENCE (PROTECT IN PLACE)
	EXISTING WALL (PROTECT IN PLACE)

DEMOLITION NOTES

- EXISTING ASPHALT CONCRETE TO BE REMOVED.
- PROTECT EXISTING UTILITY LIDS AND ADJUST TO GRADE.
- EXISTING CONCRETE TO BE REMOVED.
- PROTECT EXISTING CATCH BASIN IN PLACE AND ADJUST TO GRADE.
- EXISTING DRAINAGE INLET TO BE REMOVED.
- EXISTING HAND RAIL TO BE PROTECTED IN PLACE.
- EXISTING RETAINING CURB TO BE REMOVED AND REPLACED PER GRADING PLAN.
- EXISTING STORM DRAIN LINE TO BE REMOVED. CONTRACTOR TO FIELD VERIFY EXISTING PIPE SIZE, DEPTH, AND LOCATION.



GENERAL NOTES (DEMOLITION PLAN)

- DEMOLITION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO REMOVE EXISTING STRUCTURES AND ALL OTHER OBJECTIONABLE MATERIAL FROM THE PROJECT SITE.
- THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE REMOVAL OF MATERIAL FROM THE SITE AND ALL OBJECTIONABLE MATERIALS COVERED BY THESE PLANS. DISPOSAL OF MATERIALS SHALL BE DONE IN A SAFE AND LEGAL MANNER AND SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL REGULATIONS. THE CONTRACTOR SHALL CONTINUOUSLY COORDINATE WITH THE DISTRICT'S REPRESENTATIVE TO SALVAGE, RELOCATE, AND/OR PROTECT ANY EXISTING ITEMS OR MATERIALS AS DIRECTED.
- PRIOR TO COMMENCING DEMOLITION OPERATIONS, THE CONTRACTOR SHALL COORDINATE SEQUENCING OF WORK IN ADVANCE WITH THE DISTRICT'S REPRESENTATIVE.
- THE CONTRACTOR SHALL CONTINUOUSLY CLEAN AND REMOVE DEMOLISHED MATERIALS FROM THE SITE EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. DO NOT ALLOW MATERIALS TO ACCUMULATE ON SITE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE ANY ITEMS DAMAGED DURING THE DEMOLITION PROCESS THAT ARE INTENDED TO REMAIN AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PLANS IN THEIR ENTIRETY PRIOR TO PROJECT DEMOLITION. PLAN DISCREPANCIES OR DEFICIENCIES SHALL BE REPORTED TO THE DISTRICT'S REPRESENTATIVE PRIOR TO COMMENCING WORK.
- ALL EXISTING UTILITIES TO BE PROTECTED IN PLACE UNLESS OTHERWISE SHOWN. CONTRACTOR TO COORDINATE WITH ALL NECESSARY UTILITY COMPANIES.
- REFER TO LANDSCAPE DRAWINGS FOR ANY REQUIRED PLANTING & IRRIGATION DEMOLITION AND TREE REMOVAL. ALL AREAS TO RECEIVE LANDSCAPING TO BE CLEARED, GRUBBED, AND REMOVE EXISTING IRRIGATION AS NECESSARY.
- CONCRETE SIDEWALKS WILL BE REMOVED TO THE NEAREST CONSTRUCTION OR EXPANSION JOINT TO THE LIMITS OF REMOVAL AS SHOWN ON THE PLANS. CONTRACTOR TO PROVIDE SAWCUT LOCATION PLAN FOR APPROVAL BY DISTRICT'S REPRESENTATIVE.
- ADJUST EXISTING UTILITY LIDS, GRATES, COVERS TO FINISHED GRADE.
- DEMOLITION SHALL BE CONDUCTED TO LIMITS SHOWN & AS REQUIRED FOR NEW WORK.
- THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT AND SUPPORT THE UTILITIES OR SUBSTRUCTURES FOUND AT THE SITE WHETHER OR NOT SHOWN ON THE PLANS OR EXPOSED BY CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK (72-HOURS NOTICE REQUIRED). PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) TOLL FREE AT 8-1-1. CONTRACTOR SHALL PROTECT ALL EXISTING PROPERTIES FROM DAMAGE. CONTRACTOR SHALL RESTORE ALL EXISTING SURFACE AND SUBSURFACE FACILITIES DISTURBED BY CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, TREES, LANDSCAPING, IRRIGATION, TRAILS, ASPHALT CONCRETE ROAD PAVING, CURB AND GUTTER, CROSS GUTTER, SIDEWALK, AND UTILITIES. POT HOLE EXISTING UTILITIES PRIOR TO CONSTRUCTION AND ADVISE DISTRICT'S REPRESENTATIVE OF CONFLICTS. CONTACT PURVEYORS OF UTILITY SYSTEMS SUCH AS ELECTRIC, TELEPHONE, CABLE TV, GAS OR OTHERS TO RELOCATE FACILITIES TO ALLOW FOR THE CONSTRUCTION SHOWN ON THESE PLANS. EXCEPT AS OTHERWISE SHOWN THE DEPTHS OF UTILITIES ARE NOT KNOWN.
- UNLESS OTHERWISE NOTED ON DRAWINGS, ALL EXISTING WIRING, CONDUITS, JUNCTION BOXES AND OTHER ELECTRICAL DEVICES IN AREAS WHERE NEW WORK OCCURS SHALL BE REMOVED, EXCEPT WHEN SUCH DEVICES ARE REQUIRED TO MAINTAIN SERVICES TO OTHER AREAS, OR OTHERWISE NOTED. IN SUCH CASES, CONTRACTOR SHALL RELOCATE THESE DEVICES PER INSTRUCTIONS BY DISTRICT'S REPRESENTATIVE.



BID SET DATE: 02-04-2026

REVISIONS			
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REVIEWED BY:		DATE	DATE



TRISTAN J. SANTOS DATE: 02/02/2026
PROJECT ENGINEER
R.C.E.

FB-26-05 CENTRAL QUAD REMODEL
LAS POSAS ELEMENTARY SCHOOL
DEMOLITION PLAN
75 E CALLE LA GUERRA, CAMARILLO, CA 93010

SCALE: HORIZ. 1"=10' VERT. _____

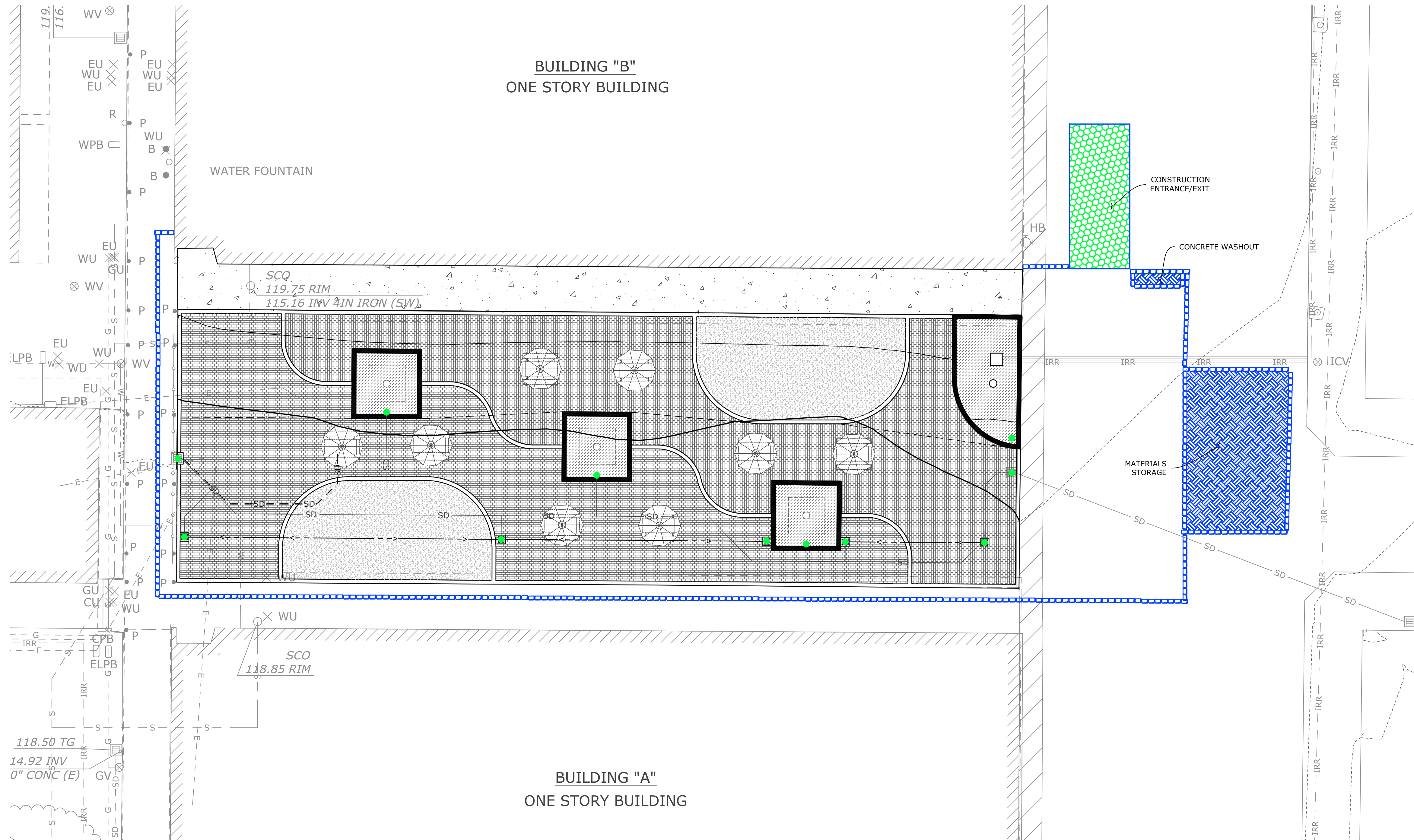
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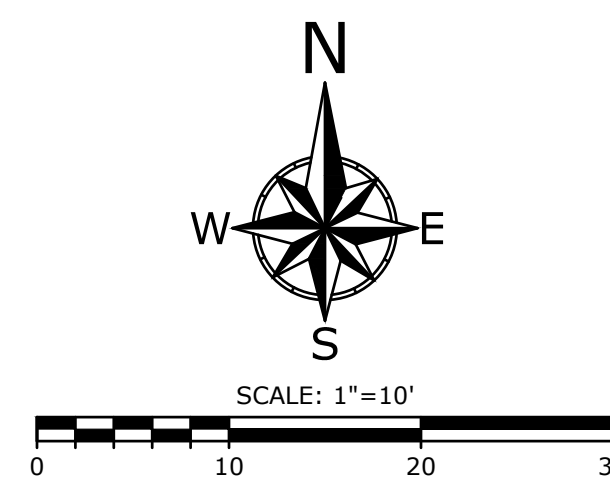


LEGEND

- INDICATES CONSTRUCTION ENTRANCE TO BE PROTECTED PER BMPs TC-1 AND TC-3.
- INDICATES AREA ON SITE TO BE USED FOR MATERIALS STORAGE AND WASHOUT AREA PER BMPs WM-1, WM-3, WM-8, WM-9, NS-8, AND NS-9.
- INDICATES SILT FENCE PROTECTION PER BMP SE-1.
- INDICATES GRAVEL BAG PROTECTION PER BMP SE-6.
- INDICATES INLET PROTECTION PER BMP SE-10 AND THE CATCH BASIN/INLET PROTECTION DETAIL ON SHEET 4.

BEST MANAGEMENT PRACTICES (BMP'S) GENERAL NOTES

- BMP'S REFERENCED ARE FROM THE CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICE HANDBOOKS (CONSTRUCTION), OCTOBER 2024.
- CONTRACTOR TO IMPLEMENT STREET SWEEPING AND VACUUMING, BMP SE-7, TO THE SATISFACTION OF THE RESIDENT INSPECTOR AS CONDITIONS WARRANT.
- CONTRACTOR TO IMPLEMENT WIND EROSION CONTROL, BMP WE-1, TO PREVENT OR ALLEVIATE DUST NUISANCE GENERATED DURING CONSTRUCTION ACTIVITIES.
- BMP'S NOT INDICATED ON THIS PLAN MAY BE IMPLEMENTED AS DEEMED NECESSARY BY THE RESIDENT INSPECTOR.
- THE LOCATION AND DESIGN OF ALL EROSION CONTROL MEASURES SHOWN ON THESE PLANS ARE TENTATIVE ONLY AND SUBJECT TO REVISIONS AS DETERMINED BY THE RESIDENT INSPECTOR OR THE CITY ENGINEER. ACTUAL EROSION CONTROL SHALL BE INSTALLED TO THE SATISFACTION OF THE RESIDENT INSPECTOR AS CONDITIONS WARRANT. SILT, DEBRIS AND MUD SHALL BE PROMPTLY REMOVED FROM ALL EROSION CONTROL STRUCTURES AFTER EACH RAIN TO THE SATISFACTION OF THE RESIDENT INSPECTOR. THE CITY MAY CONDUCT REGULAR SITE INSPECTIONS TO ASSESS CHANGING CONDITIONS AND DETERMINE THE NECESSITY OF ADDITIONAL EROSION CONTROL MEASURES.



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TRISTAN J. SANTOS DATE: 02/02/2026
PROJECT ENGINEER
R.C.E.

BID SET DATE: 02-04-2026

FB-26-05 CENTRAL QUAD REMODEL
LAS POSAS ELEMENTARY SCHOOL
EROSION CONTROL PLAN
75 E CALLE LA GUERRA, CAMARILLO, CA 93010

SCALE: HORIZ. 1"=10'		VERT. _____
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SHEET NO. 3		OF 7

GENERAL NOTES (EROSION CONTROL PLAN)

1. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM OR CONSTRUCTION ACTIVITY DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE.
2. DISCHARGES OF MATERIALS OTHER THAN STORM WATER ARE ALLOWED ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 & 302.
3. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS, FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING; AND SUPERCHLORINATED POTABLE WATER LINE FLUSHINGS.
4. DURING CONSTRUCTION, DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE, PHYSICALLY SEPARATED FROM POTENTIAL STORM WATER RUN-OFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
5. DEWATERING OF CONTAMINATED GROUNDWATER, OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION, IS PROHIBITED. DEWATERING OF NON-CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE RESPECTIVE STATE OF WATER QUALITY CONTROL BOARD.
6. ALL ACTIVITIES WILL CONFORM TO BEST MANAGEMENT PRACTICES (BMPs) ORDER NO. 2009-0009-DWQ AND CALIFORNIA STORM WATER BEST MANAGEMENT PRACTICES HANDBOOK.
7. THE PROJECT CONSERVATION PLANS WILL INCORPORATE BEST MANAGEMENT PRACTICE (BMP'S) APPLICABLE TO THE DEVELOPMENT TO THE REVIEW AND SATISFACTION OF THE CITY ENGINEER. BMP'S FOR THIS PROJECT WILL INCLUDE (BUT ARE NOT LIMITED TO THE FOLLOWING):
- A. ALL AREAS SHALL BE MAINTAINED FREE OF LITTER AND DEBRIS TO PREVENT THE ACCUMULATION OF LITTER AND DEBRIS FROM ENTERING THE STORM DRAIN OR BEING BLOWN OFF THE SITE. NO CLEANING AGENT OR OTHER POLLUTANT SHALL BE DISCHARGED INTO THE STORM DRAIN SYSTEM. IF ANY CLEANING AGENT OR DEGREASER IS USED, WASH WATER SHALL NOT BE DISCHARGED TO THE STORM DRAIN OR DISCARDED ON SITE. WASH WATER SHALL BE COLLECTED BY VACUUM OR OTHER SUCH APPROPRIATE METHOD AND DISCARDED AT AN APPROVED DISPOSAL LOCATION.
- B. ALL STORM DRAINS SHALL BE CLEANED, USING APPROPRIATE METHODS AND TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE.
8. THE FOLLOWING BMPs FROM THE CALIFORNIA STORMWATER QUALITY ASSOCIATION - STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK (CONSTRUCTION), OCTOBER 2024, MUST BE IMPLEMENTED FOR ALL CONSTRUCTION ACTIVITIES AS APPLICABLE:

TEMPORARY SOIL STABILIZATION

- EC1 - SCHEDULING
- EC2 - PRESERVATION OF EXISTING VEGETATION
- EC3 - HYDRAULIC MULCH
- EC4 - HYDROSEEDING
- EC5 - SOIL BINDERS
- EC6 - STRAW MULCH
- EC7 - GEOTEXTILES & MATS
- EC8 - WOOD MULCHING
- EC9 - EARTH DIKES & DRAINAGE SWALES
- EC10 - VELOCITY DISSIPATION DEVICES
- EC11 - SLOPE DRAINS
- EC12 - STREAM BANK STABILIZATION
- EC14 - COMPOST BLANKET
- EC15 - SOIL PREPARATION / ROUGHENING
- EC16 - NON-VEGETATION STABILIZATION

WIND EROSION CONTROL

- WE1 - WIND EROSION CONTROL

NON-STORMWATER MANAGEMENT

- NS1 - WATER CONSERVATION PRACTICES
- NS2 - DEWATERING OPERATIONS
- NS3 - PAVING AND GRINDING OPERATIONS
- NS4 - TEMPORARY STREAM CROSSING
- NS5 - CLEAR WATER DIVERSION
- NS6 - ILLICIT CONNECTION/ILLEGAL DISCHARGE
- NS7 - POTABLE WATER/IRRIGATION
- NS8 - VEHICLE AND EQUIPMENT CLEANING
- NS9 - VEHICLE AND EQUIPMENT FUELING
- NS10 - VEHICLE AND EQUIPMENT MAINTENANCE
- NS11 - PILE DRIVING OPERATIONS
- NS12 - CONCRETE CURING
- NS13 - CONCRETE FINISHING
- NS14 - MATERIAL AND EQUIPMENT USE OVER WATER STRUCTURE
- NS15 - DEMOLITION/REMOVAL OVER OR ADJACENT TO WATER
- NS16 - TEMPORARY BATCH PLANTS

TEMPORARY SEDIMENT CONTROL

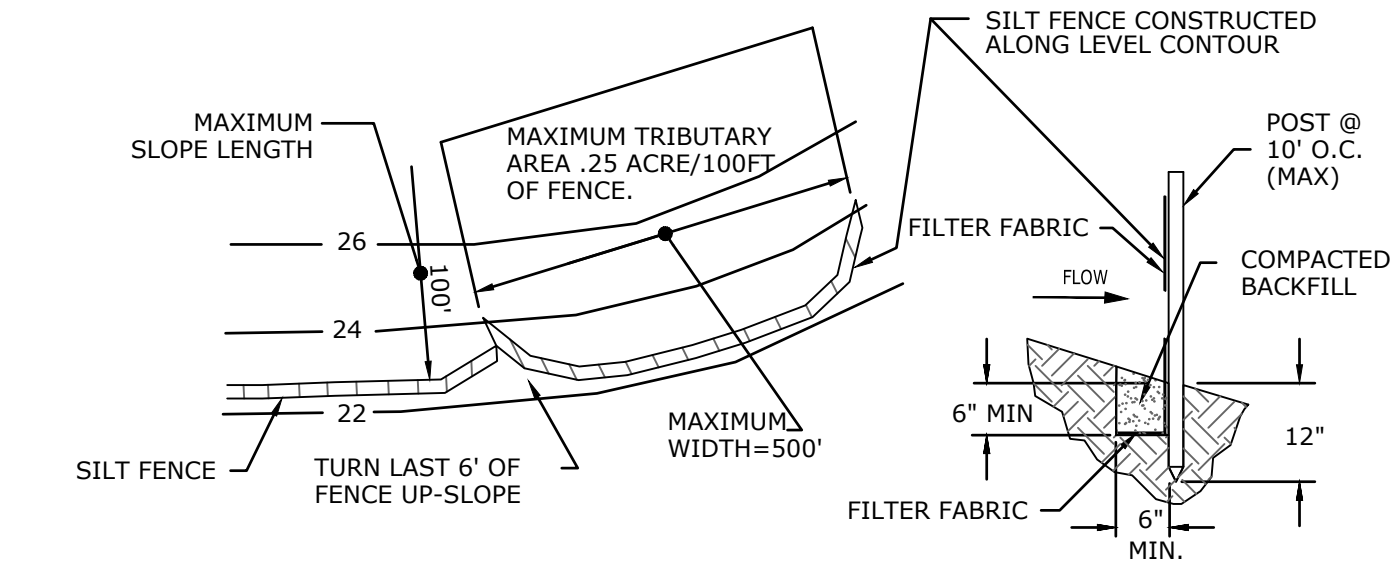
- SE1 - SILT FENCE
- SE2 - SEDIMENT BASIN
- SE3 - SEDIMENT TRAP
- SE4 - CHECK DAM
- SE5 - FIBER ROLLS
- SE6 - GRAVEL BAG BERM
- SE7 - STREET SWEEPING AND VACUUMING
- SE8 - SANDBAG BARRIER
- SE9 - STRAW BALE BARRIER
- SE10 - STORM DRAIN INLET PROTECTION
- SE11 - ACTIVE TREATMENT SYSTEM
- SE12 - TEMPORARY SILT DIKE
- SE13 - COMPOST SOCKS AND BERMS
- SE14 - BIOFILTER BAGS

TRACKING CONTROL

- TC1 - STABILIZED CONSTRUCTION ENTRANCE/EXIT
- TC2 - STABILIZED CONSTRUCTION ROADWAY
- TC3 - ENTRANCE/EXIT TIRE WASH

WASTE MANAGEMENT AND MATERIALS POLLUTION CONTROL

- WM1 - MATERIAL DELIVERY AND STORAGE
- WM2 - MATERIAL USE
- WM3 - STOCKPILE MANAGEMENT
- WM4 - SPILL PREVENTION AND CONTROL
- WM5 - SOLID WASTE MANAGEMENT
- WM6 - HAZARDOUS WASTE MANAGEMENT
- WM7 - CONTAMINATED SOIL MANAGEMENT
- WM8 - CONCRETE WASTE MANAGEMENT
- WM9 - SANITARY/SEPTIC WASTE MANAGEMENT
- WM10 - LIQUID WASTE MANAGEMENT

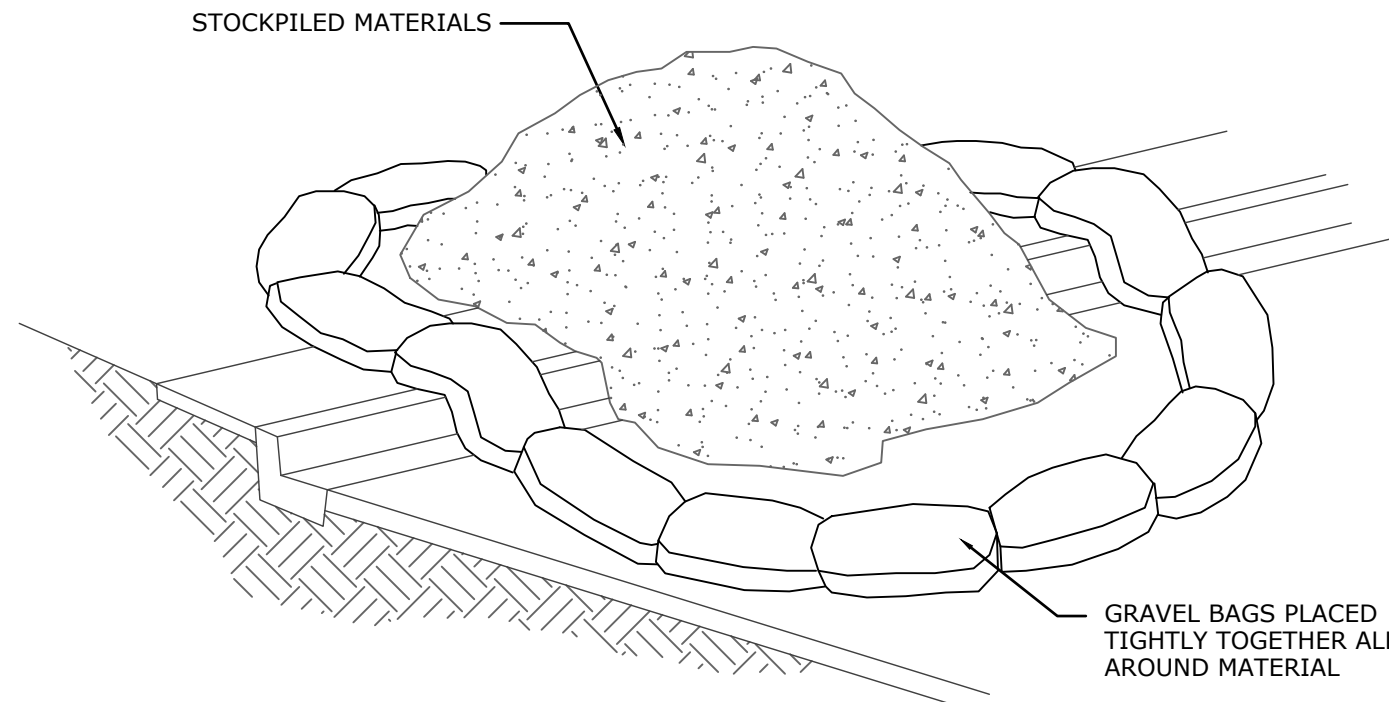


NOTES:

1. CONSTRUCT THE SILT FENCE ALONG A LEVEL CONTOUR.
2. SILT FENCES SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED.
3. PROVIDE SUFFICIENT ROOM FOR RUNOFF TO POND BEHIND THE FENCE AND ALLOW SEDIMENT REMOVAL EQUIPMENT TO PASS BETWEEN THE SILT FENCE AND TOE OF SLOPE OR OTHER OBSTRUCTIONS. ABOUT 1200 SQ. FT. OF PONDING AREA SHALL BE PROVIDED FOR EVERY ACRE DRAINING TO THE FENCE.
4. TURN THE ENDS OF THE FILTER FENCE UPHILL TO PREVENT STORMWATER FROM FLOWING AROUND THE FENCE.
5. LEAVE AN UNDISTURBED OR STABILIZED AREA IMMEDIATELY DOWNSLOPE FROM THE FENCE.
6. DO NOT PLACE IN LIVE STREAM OR INTERMITTENTLY FLOWING CHANNELS.
7. WHEN STANDARD FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS.

SILT FENCE

SCALE: N.T.S.

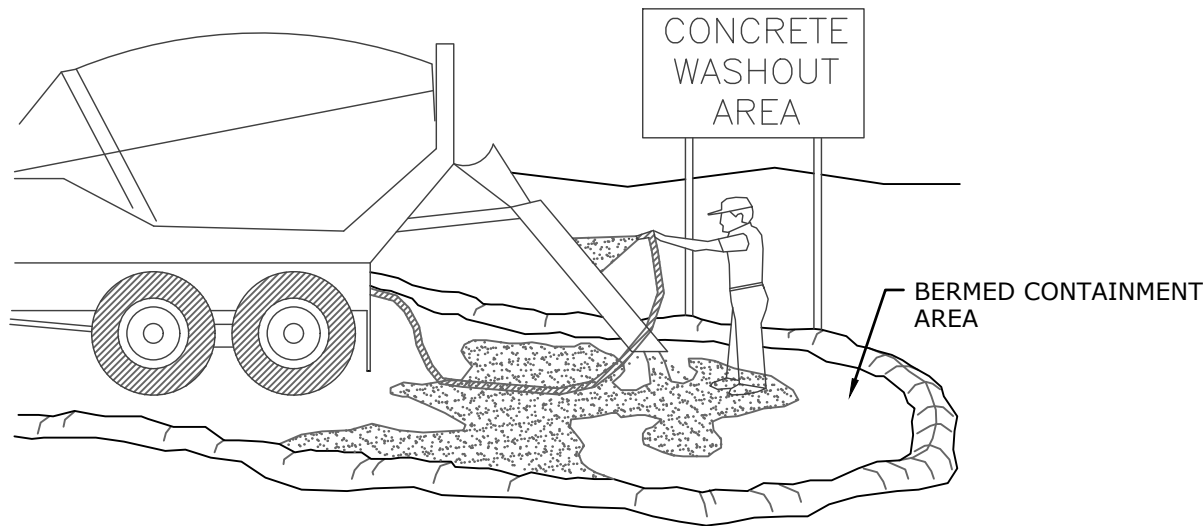


NOTES:

1. DIRT AND OTHER CONSTRUCTION RELATED MATERIALS PLACED IN THE STREET OR ON OTHER IMPERVIOUS SURFACES MUST BE CONTAINED WITH GRAVEL BAGS OR OTHER MEASURES TO PREVENT TRANSPORT TO THE STORMDRAIN SYSTEM.
2. ANY CONSTRUCTION MATERIAL STORED OR STOCKPILED ON-SITE SHALL BE PROTECTED FROM BEING TRANSPORTED BY THE FORCE OF WIND OR WATER.
3. REFER TO CALIFORNIA STORMWATER BMP HANDBOOK (CONSTRUCTION), BMP WM-1 AND WM-3.

MATERIAL STORAGE

SCALE: N.T.S.

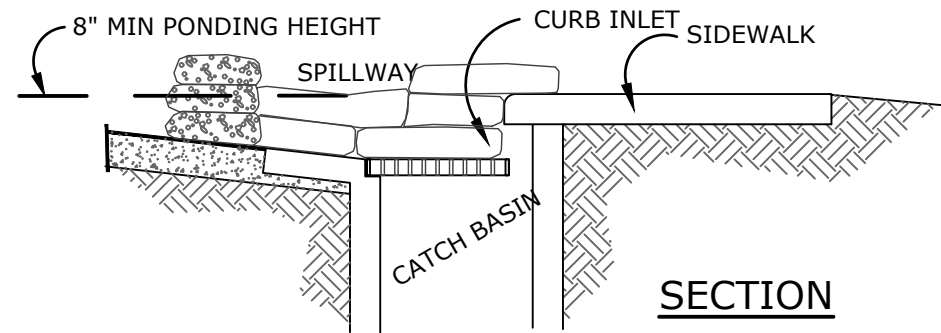
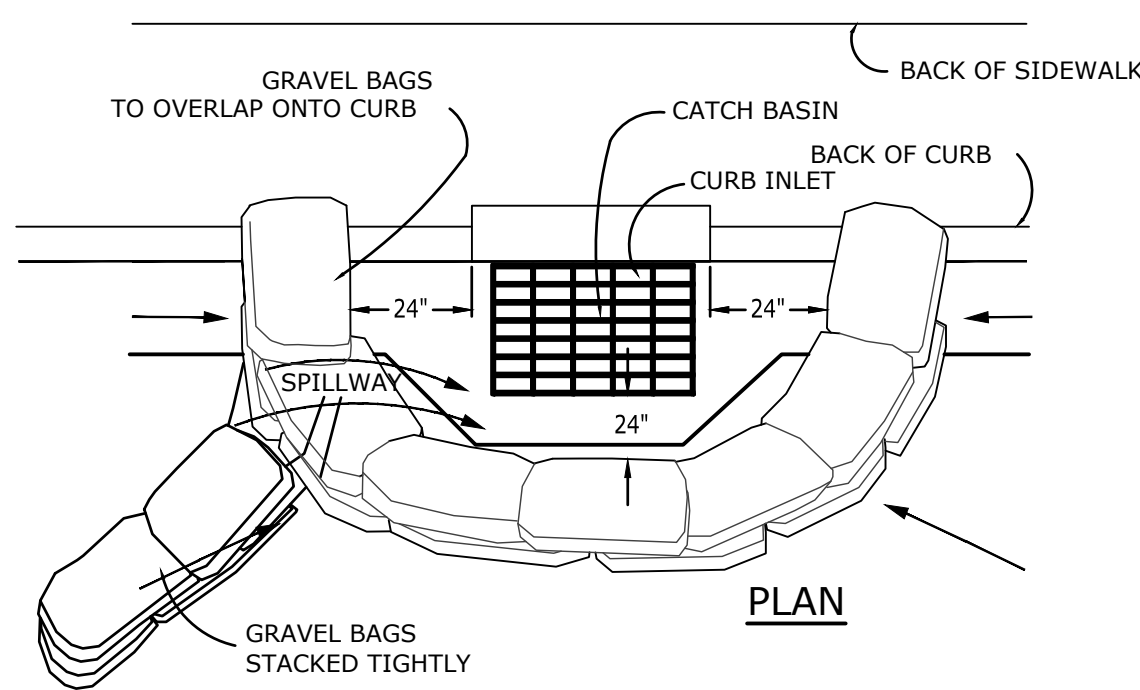


NOTES:

1. EXCESS AND WASTE CONCRETE SHALL NOT BE WASHED INTO THE STREET OR INTO A DRAINAGE SYSTEM.
2. FOR WASHOUT OF CONCRETE AND MORTAR PRODUCTS, A DESIGNATED CONTAINMENT FACILITY OF SUFFICIENT CAPACITY TO RETAIN LIQUID AND SOLID WASTE SHALL BE PROVIDED ON SITE.
3. SLURRY FROM CONCRETE AND ASPHALT SAW CUTTING SHALL BE VACUUMED OR CONTAINED, DRIED, PICKED UP AND DISPOSED OF PROPERLY.
4. CONCRETE WASHOUT AREA SHALL BE LINED WITH A MINIMUM 10 MIL. POLYETHYLENE SHEETING.
5. REFER TO CALIFORNIA STORMWATER BMP HANDBOOK (CONSTRUCTION), BMP WM-8.

CONCRETE WASTE MANAGEMENT

SCALE: N.T.S.

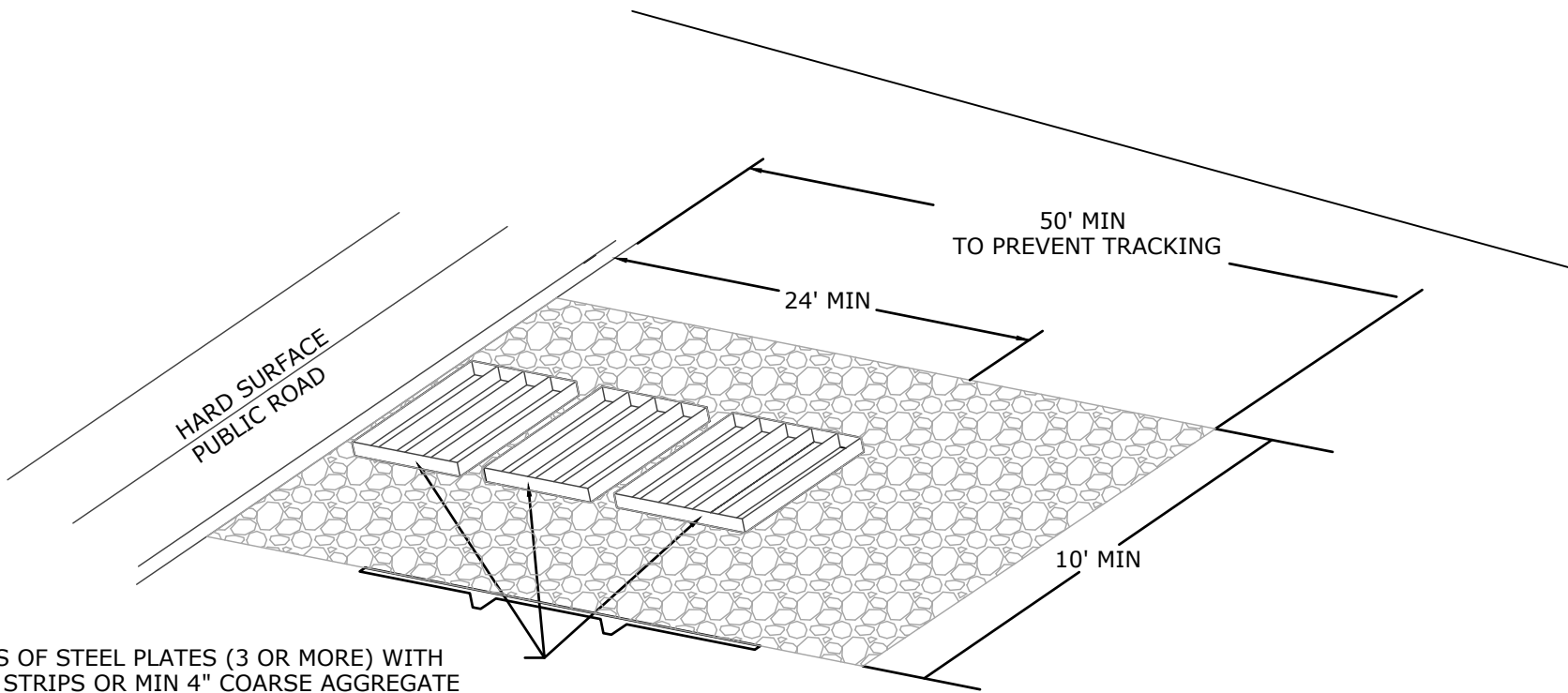


NOTES:

1. CATCH BASIN/INLET PROTECTION SHALL BE INSTALLED WHEREVER THERE IS A POTENTIAL OF STORMWATER OR NON-STORMWATER BEING DISCHARGED INTO IT.
2. INLET PROTECTION IS REQUIRED ALONG WITH OTHER POLLUTION PREVENTION MEASURES SUCH AS EROSION CONTROL, SOIL STABILIZATION, AND MEASURES TO PREVENT TRACKING ONTO PAVED SURFACES.
3. MODIFY INLET PROTECTION AS NEEDED TO AVOID CREATING TRAFFIC HAZARDS.
4. INCLUDE INLET PROTECTION MEASURES AT HILLSIDE V-DITCHES AND MISC. DRAINAGE SWALES.
5. INLET PROTECTION SHALL BE INSPECTED AND ACCUMULATED SEDIMENTS REMOVED. SEDIMENT SHALL BE DISPOSED OF PROPERLY AND IN A MANNER THAT ASSURES THAT THE SEDIMENT DOES NOT ENTER THE STORM DRAIN SYSTEM.
6. DAMAGED BAGS SHALL BE REPLACED IMMEDIATELY.
7. ADDITIONAL GRAVELBAG SEDIMENT TRAPS SHALL BE PLACED AT INTERVALS AS INDICATED ON SITE PLAN.
8. REFER TO CALIFORNIA STORMWATER BMP HANDBOOK (CONSTRUCTION), BMPs SE-6 AND SE-10.

CATCH BASIN/INLET PROTECTION

SCALE: N.T.S.



NOTES:

1. SEDIMENTS AND OTHER MATERIALS SHALL NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS SHALL BE STABILIZED SO AS TO PREVENT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC ROADS. DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS INTO THE STORM DRAIN SYSTEM.
2. STABILIZED CONSTRUCTION ENTRANCE SHALL BE:
- A. LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT OF WAY, STREET, ALLEY, AND SIDEWALK OR PARKING AREA.
- B. A SERIES OF STEEL PLATES WITH "RUMBLE STRIPS", AND/OR MIN 4" COARSE AGGREGATE WITH LENGTH, WIDTH & THICKNESS AS NEEDED TO ADEQUATELY PREVENT ANY TRACKING ONTO PAVED SURFACES.
3. ADDING A WASH RACK WITH A SEDIMENT TRAP LARGE ENOUGH TO COLLECT ALL WASH WATER CAN GREATLY IMPROVE EFFICIENCY.
4. ALL VEHICLES ACCESSING THE CONSTRUCTION SITE SHALL UTILIZE THE STABILIZED CONSTRUCTION ENTRANCE SITES.
5. REFER TO CALIFORNIA STORMWATER BMP HANDBOOK (CONSTRUCTION), BMP TC-1 AND TC-3.

NOTES:

1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
2. SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
3. PAVEMENT WASHING WITH WATER IS PROHIBITED IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.
4. REFER TO CALIFORNIA STORMWATER BMP HANDBOOK (CONSTRUCTION), BMP SE-7.

STABILIZED CONSTRUCTION ENTRANCE/EXIT

SCALE: N.T.S.

BID SET DATE: 02-04-2026

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		DATE	
		DATE	



TRISTAN J. SANTOS DATE: 02/02/2026
PROJECT ENGINEER
R.C.E.

FB-26-05 CENTRAL QUAD REMODEL
LAS POSAS ELEMENTARY SCHOOL
EROSION CONTROL DETAILS
75 E CALLE LA GUERRA, CAMARILLO, CA 93010

SCALE: HORIZ. _____ VERT. _____

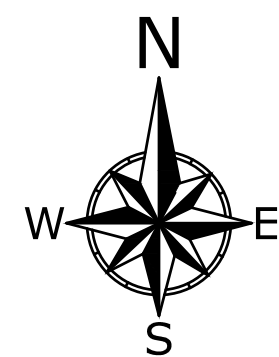
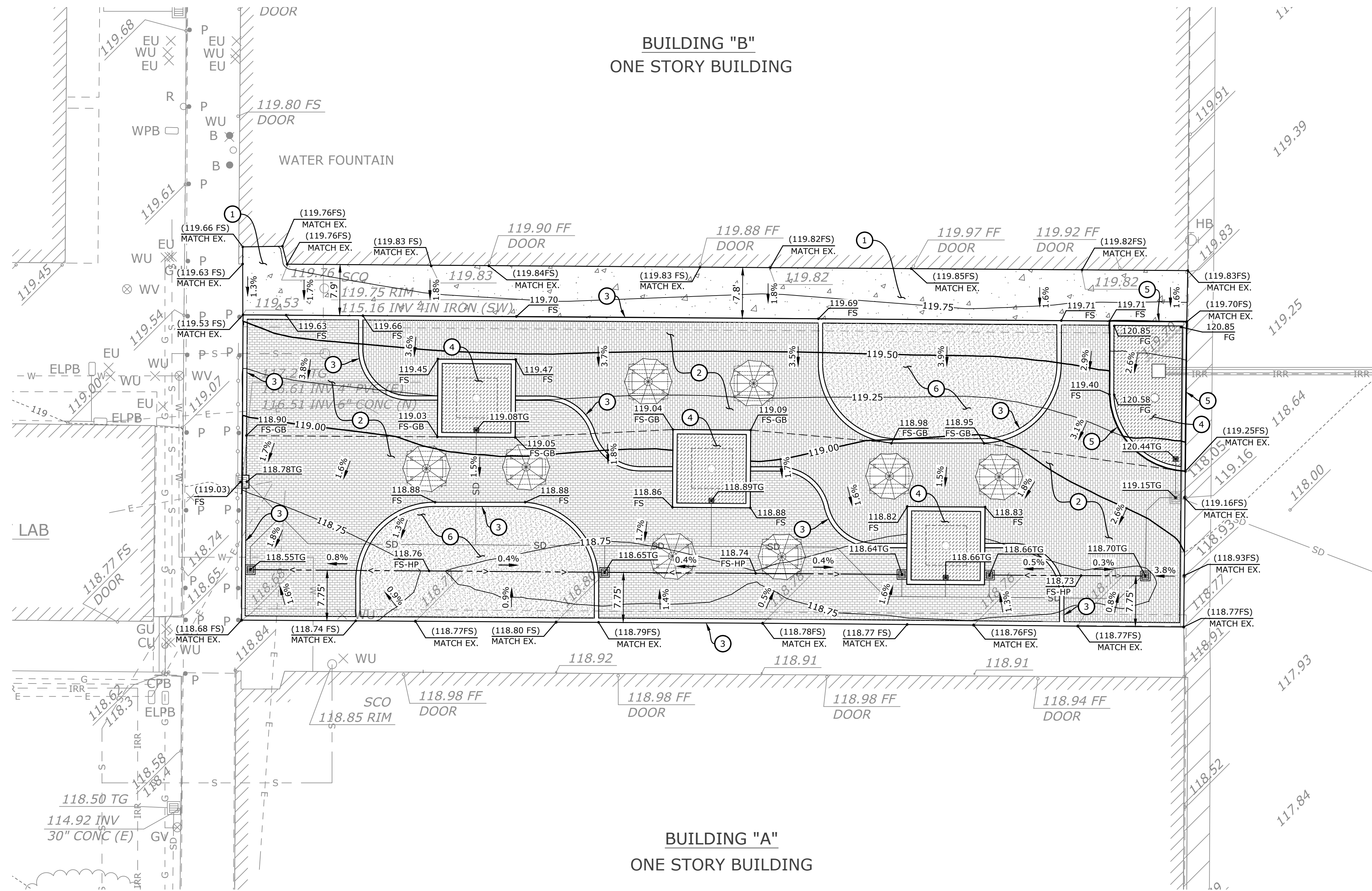
WORK ORDER 0696
DRAWN BY: CFB
CHECKED BY: TJS

SHEET NO. 4 OF 7

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SCALE: 1"=10'

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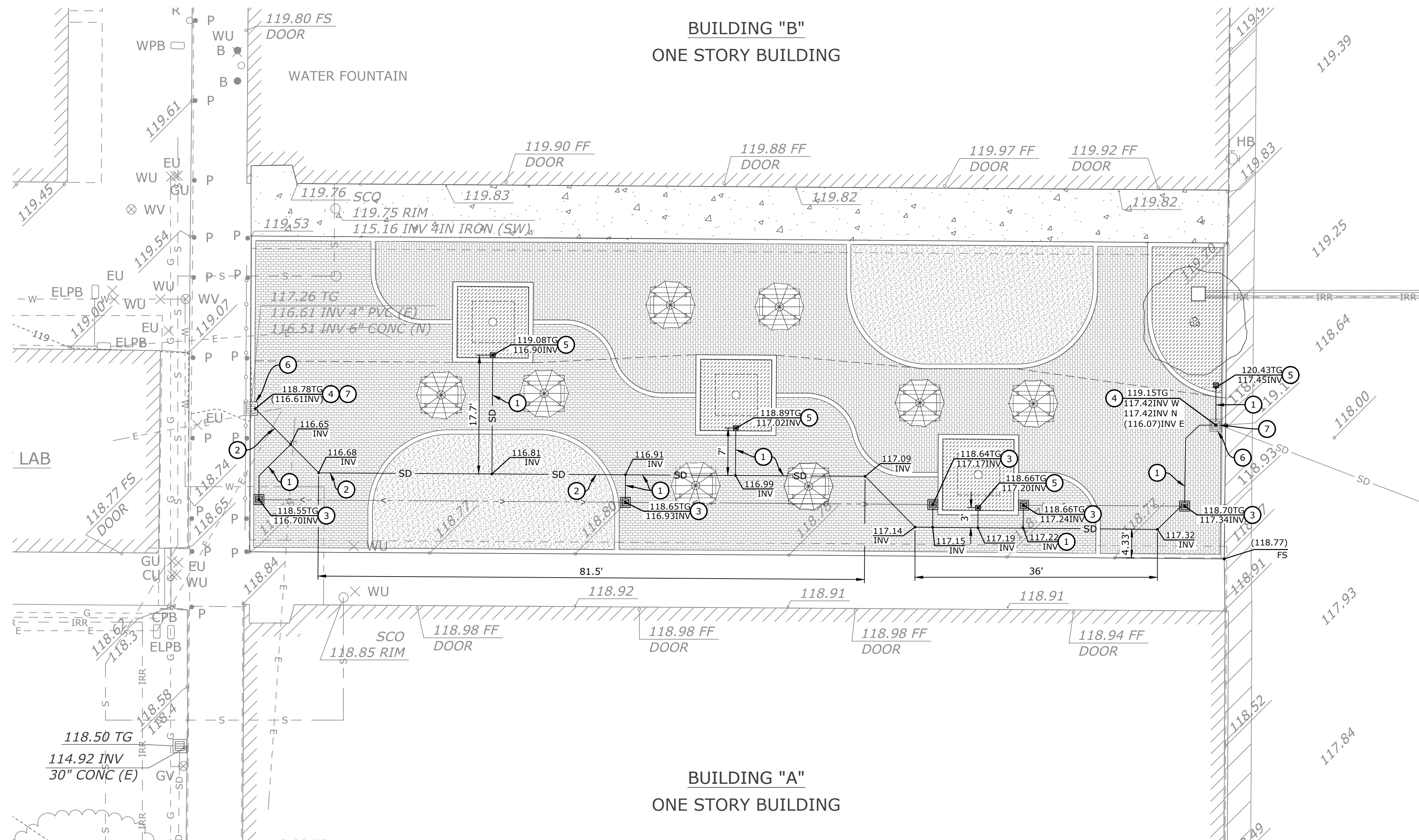


TRISTAN J. SANTOS
PROJECT ENGINEER
R.C.E.

DATE: 02/02/2026

BID SET DATE: 02-04-2026			
FB-26-05 CENTRAL QUAD REMODEL LAS POSAS ELEMENTARY SCHOOL GRADING PLAN 75 E CALLE LA GUERRA, CAMARILLO, CA 93010			
SCALE: HORIZ. 1"=10'		VERT. _____	
WORK ORDER	0696	SHEET NO. <u>5</u> OF <u>7</u>	
DRAWN BY:	CPB		
CHECKED BY:	TJS		

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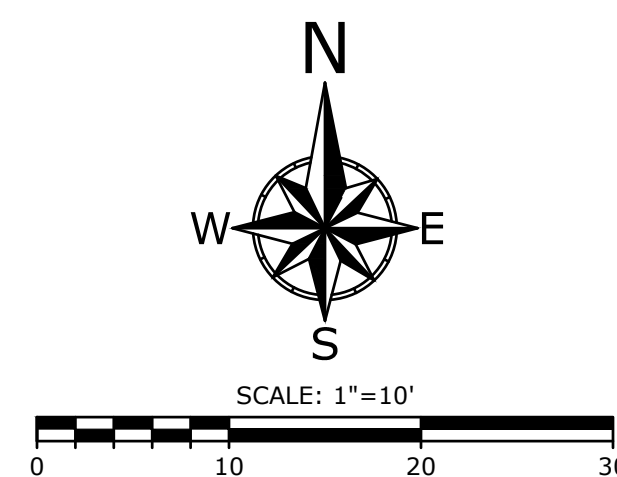


LEGEND

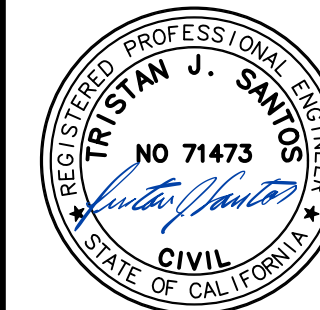
	CONCRETE PAVERS PER LANDSCAPE ARCHITECT
	LANDSCAPING PLANTER BOX
	PC CONCRETE
	SYNTHETIC TURF
	EXISTING SANITARY SEWER (PROTECT IN PLACE)
	EXISTING GAS LINE (PROTECT IN PLACE)
	EXISTING DOMESTIC WATER (PROTECT IN PLACE)
	EXISTING IRRIGATION WATER (PROTECT IN PLACE)
	EXISTING OVERHEAD WIRE (PROTECT IN PLACE)
	EXISTING STORM DRAIN (PROTECT IN PLACE)
	EXISTING WALL (PROTECT IN PLACE)
	EXISTING ELECTRICAL LINE (PROTECT IN PLACE)
	EXISTING CHAIN LINK FENCE (PROTECT IN PLACE)
	STORM DRAIN INLET
	GRADE BREAK
	EXISTING MINOR CONTOURS
	EXISTING MAJOR CONTOURS
	PROPOSED MINOR CONTOURS
	PROPOSED MAJOR CONTOURS
	PROPOSED FLOWLINE
	PROPOSED STORM DRAIN
	PROPOSED ELEVATION
	EXISTING ELEVATION
	PROPOSED GRADE

STORM DRAIN CONSTRUCTION NOTES

1. CONSTRUCT 6" SDR 35 PVC PIPE PER DETAIL "B" ON SHEET 7. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT STORM DRAIN SYSTEM AS SHOWN.
2. CONSTRUCT 8" SDR 35 PVC PIPE PER DETAIL "B" ON SHEET 7. INSTALL ALL FITTINGS, ELBOWS, WYES AND TEES NECESSARY TO CONSTRUCT STORM DRAIN SYSTEM AS SHOWN.
3. CONSTRUCT 12"x12" CATCH BASIN AREA DRAIN PER DETAIL "C" ON SHEET 7.
4. CONNECT 6" SD LINE TO EXISTING CATCH BASIN.
5. CONSTRUCT 6" SDR 35 PVC PIPE RISER AND 9"x9" SQUARE ATRIUM GRATE PER DETAIL "D" ON SHEET 7.
6. FURNISH AND INSTALL ADA/HEEL PROOF FRAME AND GRATE WITH BOLT-DOWN CONFIGURATION TO EXISTING CATCH BASIN. ADJUST TO FINISHED GRADE.
7. CONTRACTOR TO FIELD VERIFY EXISTING SD LINE FOR INVERT ELEVATIONS AND CONNECTIONS.



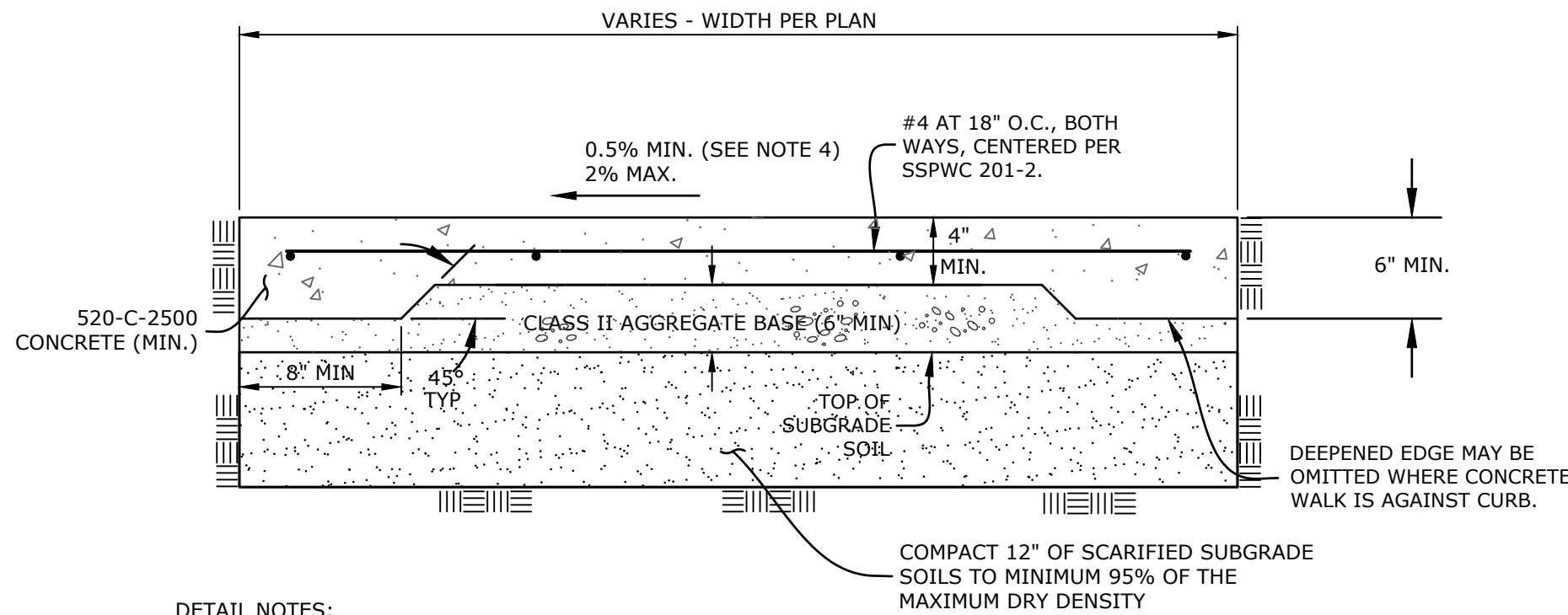
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TRISTAN J. SANTOS
PROJECT ENGINEER
R.C.E.
DATE: 02/02/2026

BID SET DATE: 02-04-2026

FB-26-05 CENTRAL QUAD REMODEL LAS POSAS ELEMENTARY SCHOOL UTILITY PLAN 75 E CALLE LA GUERRA, CAMARILLO, CA 93010			
SCALE: HORIZ. 1"=10'		VERT. _____	
WORK ORDER	0696	SHEET NO. <u>6</u> OF <u>7</u>	
DRAWN BY:	CPB		
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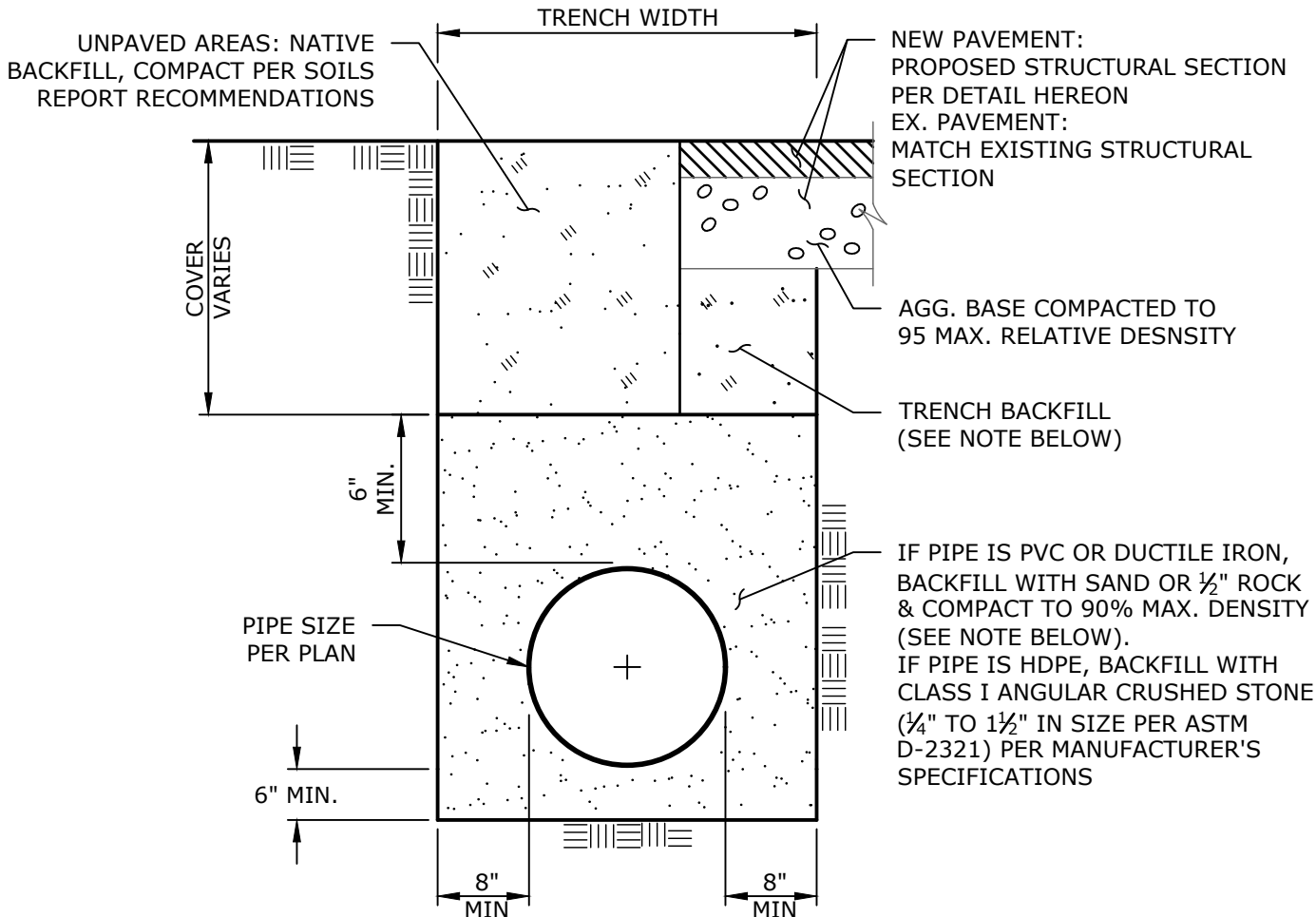


DETAIL NOTES:

- WEAKENED PLANE JOINTS AND EXPANSION JOINTS SHALL BE CONSTRUCTED PER SPPWC STANDARD PLATE 112-2.
- SCARIFY EXPOSED SURFACE TO A MINIMUM DEPTH OF 12 INCHES, MOISTURE-CONDITION TO AT LEAST OPTIMUM MOISTURE AND COMPACTED TO A MINIMUM OF 95% OF THE LABORATORY MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D1557.
- CALTRANS CLASS II AGGREGATE BASE COMPACTED TO 95% MAXIMUM, MOISTURE CONDITIONED AND COMPACTED PER THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- PATH OF TRAVEL SHALL BE CONSTRUCTED TO ELEVATIONS SHOWN. MINIMUM FALL IN ANY DIRECTION ON CONCRETE SURFACE SHALL BE 0.5%. GRADE BREAKS SHALL BE MINIMIZED AND OCCUR AT INTERVAL DISTANCES OF NOT LESS THAN 12 FEET. MINIMUM CROSSFALL SHALL BE 1% EXCEPT IN TRANSITIONS TO LEVEL SECTION. TRANSITIONS TO LEVEL SECTIONS SHALL BE A MINIMUM LENGTH OF 6 FEET ON EACH APPROACH TO A LEVEL SECTION. MAXIMUM CROSSFALL SHALL NOT EXCEED 2.0%.
- CONSTRUCT #4 DOWN AT 18" O.C., MIN 9" EMBEDMENT INTO ADJACENT EXISTING CONCRETE. EPOXY IN PLACE.

CONCRETE WALKWAY DETAIL

SCALE: N.T.S. PER-SPPWC SECTION 201, UNLESS OTHERWISE NOTED

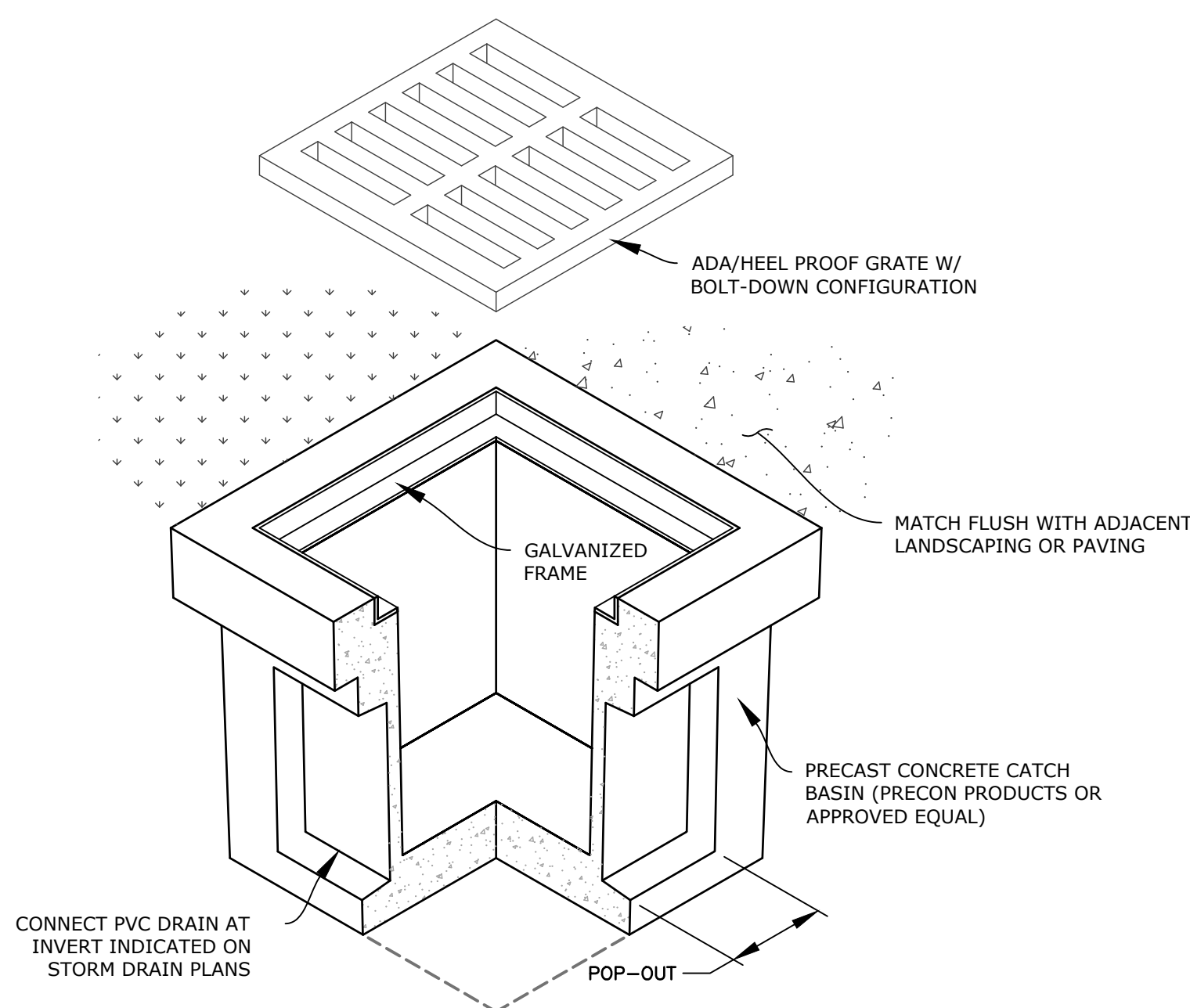


NOTES:

- SAND BACKFILL**
BACKFILL MATERIAL SHALL HAVE A SAND EQUIVALENT 30 OR GREATER. THE SAND SHALL BE PLACED IN A ZONE THAT IS 4" BELOW AND 12" ABOVE PIPE FOR THE FULL TRENCH WIDTH. THE BEDDING MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 90% RELATIVE COMPACTION. THE THICKNESS OF EACH LAYER OF BACKFILL SHALL BE PER SPPWC SECTION 306-1.3.2 AND THE PROJECT SPECIFICATIONS.
- TRENCHING & BACKFILLING**
TRENCH BACKFILL ABOVE PIPE BEDDING SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY DETERMINED FROM ASTM D1557 AND PER GEOTECHNICAL REPORT RECOMMENDATIONS.

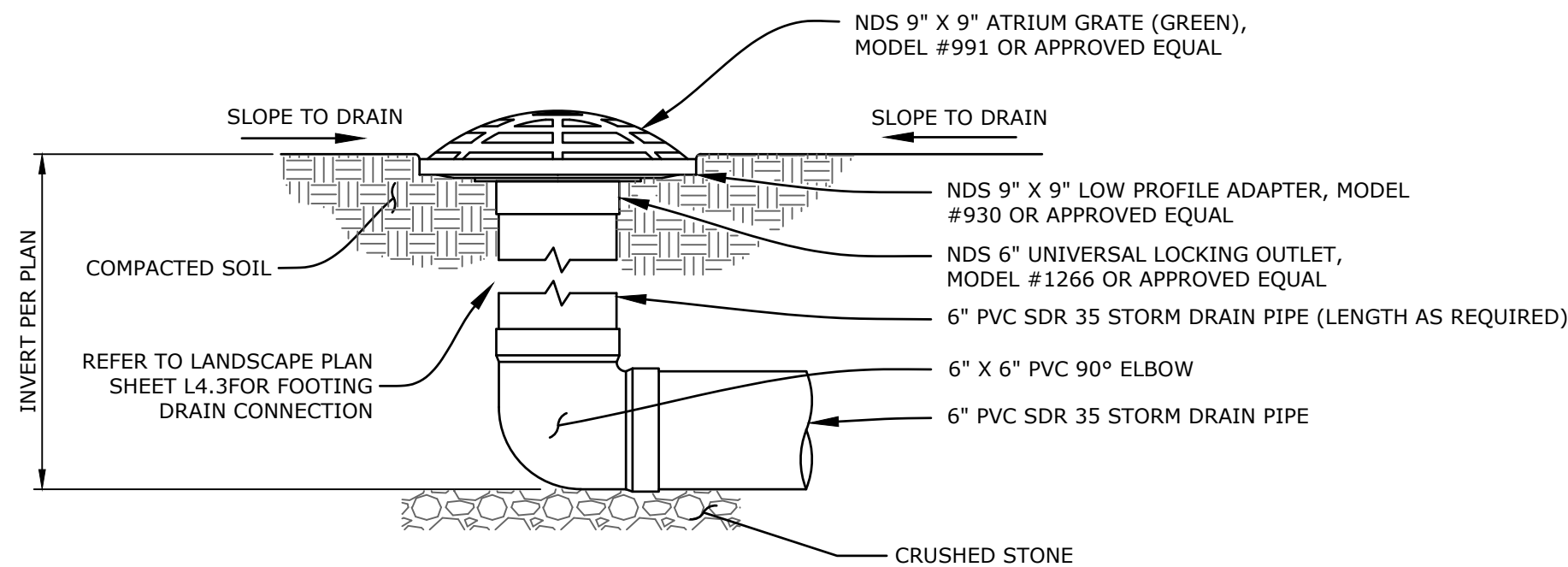
TYPICAL TRENCH SECTION

SCALE: N.T.S.



PRECAST CATCH BASIN AREA DRAIN DETAIL

SCALE: N.T.S.



NDS 9" X 9" SQUARE ATRIUM GRATE WITH ADAPTER

SCALE: N.T.S.



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TRISTAN J. SANTOS
PROJECT ENGINEER
R.C.E.

DATE: 02/02/2026

FB-26-05 CENTRAL QUAD REMODEL
LAS POSAS ELEMENTARY SCHOOL
DETAILS SHEET
75 E CALLE LA GUERRA, CAMARILLO, CA 93010

SCALE: HORIZ. _____ VERT. _____	SHEET NO. <u>7</u> OF <u>7</u>
WORK ORDER 0696	
DRAWN BY: CPB	
CHECKED BY: TJS	

SCOPE OF WORK

IN GENERAL THE SCOPE OF WORK INCLUDES THE REMOVAL OF THE EXISTING ASPHALT PAVING, SELECTED CONCRETE SIDEWALKS FROM THE CENTRAL QUAD AREA OF THE SCHOOL CAMPUS. THE CENTRAL QUAD SPACE SHALL BE IMPROVED WITH NEW CONCRETE SIDEWALKS, SYNTHETIC TURF, CONCRETE PAVERS, DRAINAGE IMPROVEMENTS, AND LANDSCAPE PLANTERS.

APPLICABLE CODES & STANDARDS

PART 1 - 2026 CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE. TITLE 24 C.C.R.
PART 2 - 2026 CALIFORNIA BUILDING CODE - TITLE 24 C.C.R.

DEVELOPMENT CONSTRUCTION PROGRAM:

THE CONTRACTOR SHALL IMPLEMENT A CONSTRUCTION PROGRAM THAT PREVENTS ILLICIT CONSTRUCTION RELATED DISCHARGES OF POLLUTANTS INTO THE MS4, IMPLEMENTS AND MAINTAINS STRUCTURAL AND NON-STRUCTURAL BMPS TO REDUCE POLLUTANTS IN STORM WATER RUNOFF FROM THE CONSTRUCTION SITE, REDUCE CONSTRUCTION SITE DISCHARGES OF POLLUTANTS FROM THE MS4 TO THE MAXIMUM EXTENT PRACTICAL (MEP) AND PREVENTS CONSTRUCTION SITE DISCHARGES FROM THE MS4 FROM CAUSING OR CONTRIBUTING TO A VIOLATION OF WATER QUALITY STANDARDS.

ABBREVIATIONS

AC	ASPHALT
BLDG.	BUILDING
BTM.	BOTTOM
CONSTR.	CONSTRUCTION
CONC.	CONCRETE
C.A.B	CRUSHED AGGREGATE BASE
C/C	CENTER TO CENTER
CONT.	CONTINUOUS
C.L.	CHAIN LINK
CLR	CLEAR
C.O.	CLEAN OUT
DEG	DEGREE
D.G.	DECOMPOSED GRANITE
DIA.	DIAMETER
(E)	EXISTING
E.G.	EXISTING GRADE
E.J.	EXPANSION JOINT
EQ	EQUAL
F'C =	CONCRETE STRENGTH AS NOTED
F.O.	FACE OF
FIN.	FINISH
FIN. FLR.	FINISH FLOOR
FG	FINISH GRADE
FS	FINISH SURFACE
FTG.	FOOTING
GRD.	GRADE
H.P.	HIGH POINT
INV	INVERT ELEVATION
IRR	IRRIGATION
MAX	MAXIMUM
MID. PT.	MIDDLE POINT
MIN	MINIMUM
M.P.R.	MULTI PURPOSE ROOM
(N)	NEW
NTE	NOT TO EXCEED
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
PSI	POUNDS PER SQUARE INCH
R.	RADIUS
STL.	STEEL
TC	TOP OF CURB
TG	TOP OF GRATE
TW	TREE WELL
T&B	TOP AND BOTTOM
VERTS	VERTICAL

SYMBOLS

DETAIL CALL-OUT



KEY NOTES W/
DESCRIPTION OF WORK
AND DETAIL REFERENCE

PLEASANT VALLEY SCHOOL DISTRICT

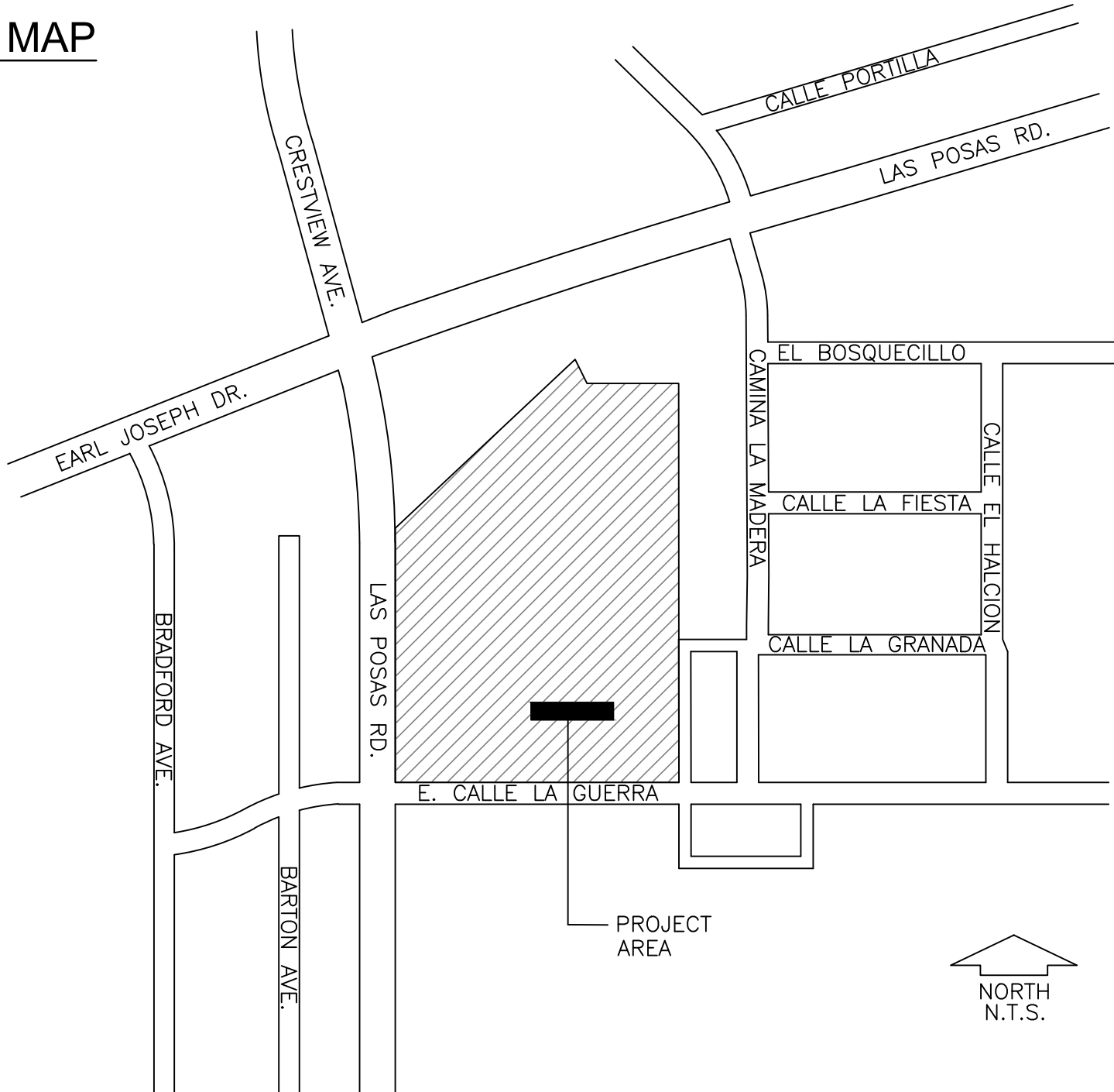
600 TEMPLE AVENUE
CAMARILLO, CA 93010



LAS POSAS ELEMENTARY SCHOOL

CENTRAL QUAD
75 CALLE LA GUERRA
CAMARILLO, CA 93010

VICINITY MAP



SCHEDULE OF DRAWINGS

SHEET NO.	SHEET REFERENCE	SHEET TITLE
1	L1.1	COVER SHEET
2	L2.1	EXISTING CONDITIONS AND REMOVALS
3	L3.1	STAKING PLAN
4	L3.2	CONSTRUCTION DETAILS
5	L4.1	IRRIGATION PLAN
6	L4.2	IRRIGATION LEGEND
7	L5.1	PLANTING PLAN
8	L6.1	IRRIGATION & PLANTING DETAILS

UNDERGROUND SERVICE ALERT



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OR
811

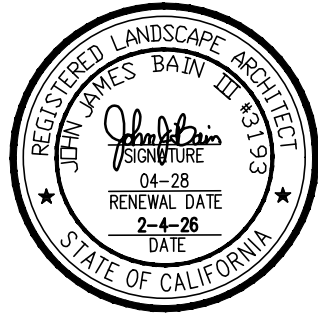
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REVISIONS	NO.	DATE	BY	DESCRIPTION



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PLEASANT VALLEY
SCHOOL DISTRICT
600 Temple Avenue
Camarillo, CA. 93010

SHEET TITLE
COVER SHEET

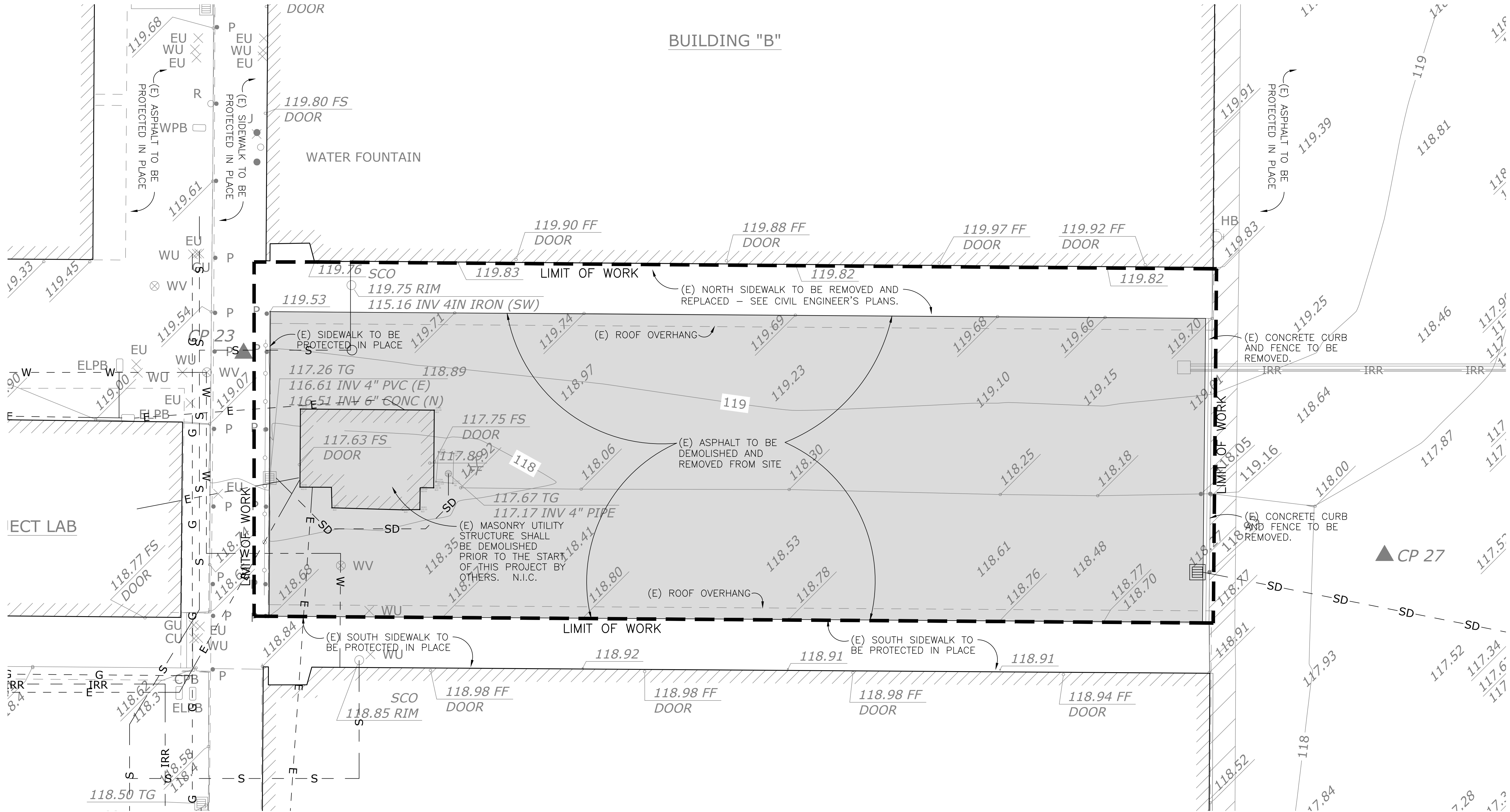
PROJECT
Las Posas Elementary
Central Quad
75 Calle La Guerra
Camarillo, CA 93010

DRAWN:	M.L.	J.B.
CHECKED:		
PRINTED FOR:		
SUBMITTAL	2-4-26	
BID:	2-4-26	
CONSTRUCTION:	2-4-26	

DRAWING

L1.1

SHEET 1 OF 8
PROJECT No. 23.30




GRAPHIC SCALE
0 4 8 16 24
SCALE: 1"=8'

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NO.	DATE	DESCRIPTION

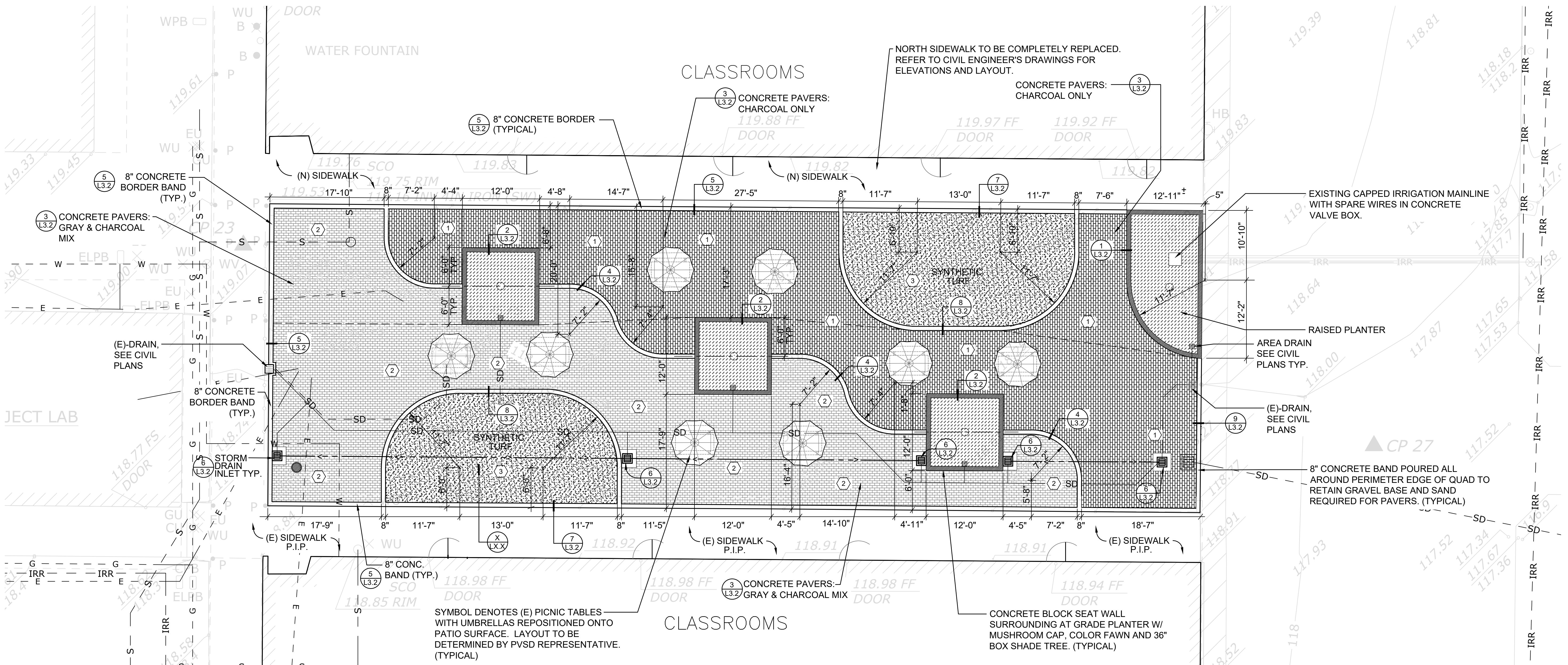



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600 Temple Avenue
Camarillo, CA. 93010

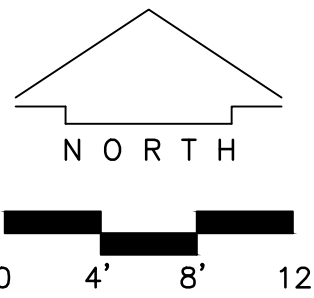
SHEET TITLE
EXISTING CONDITIONS
AND REMOVALS
PROJECT
Las Posas Elementary
Central Quad
75 Calle La Guerra
Camarillo, CA 93010

DRAWN:	J.B.
CHECKED:	J.B.
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SUBMITTAL	2-4-26
BID:	2-4-26
CONSTRUCTION:	2-4-26

DRAWING
L2.1
SHEET 2 OF 8
PROJECT No. 23.30



KEY NOTES	
NO.	WORK DESCRIPTION
1	4"x8" CONCRETE PAVERS (RUNNING BOND); GRAY-CHARCOAL ANGELUS BLOCK - HOLLAND PAVERS - SEE SPECIFICATIONS
2	4"x8" CONCRETE PAVERS (RUNNING BOND); CHARCOAL ONLY ANGELUS BLOCK - HOLLAND PAVERS - SEE SPECIFICATIONS
3	SYNTHETIC TURF: W/ SILICA SAND INFILL - SEE SPECIFICATIONS



GRAPHIC SCALE
0 4 8 16 24
SCALE: 1"=8'

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NO.	DATE	BY	DESCRIPTION

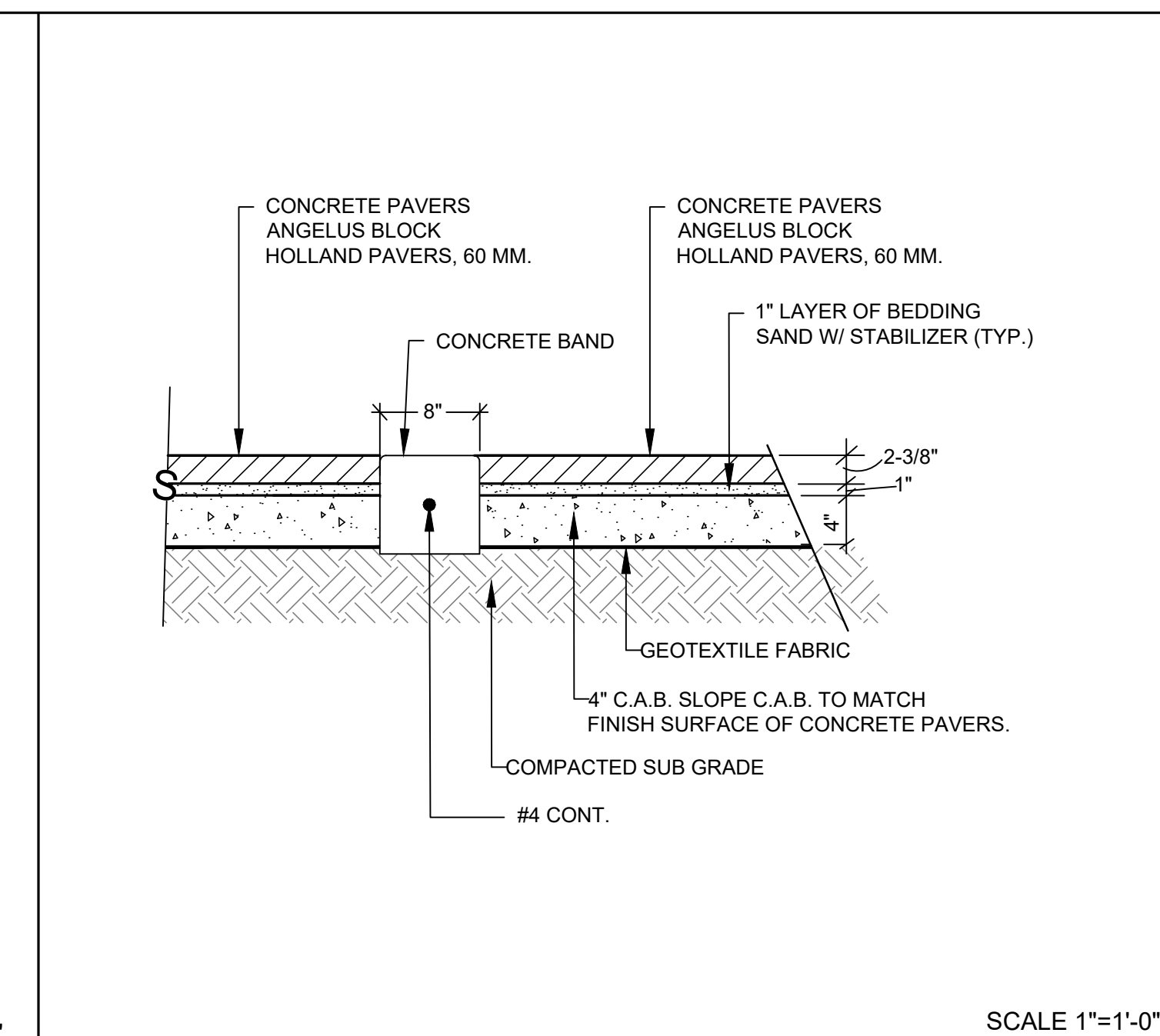
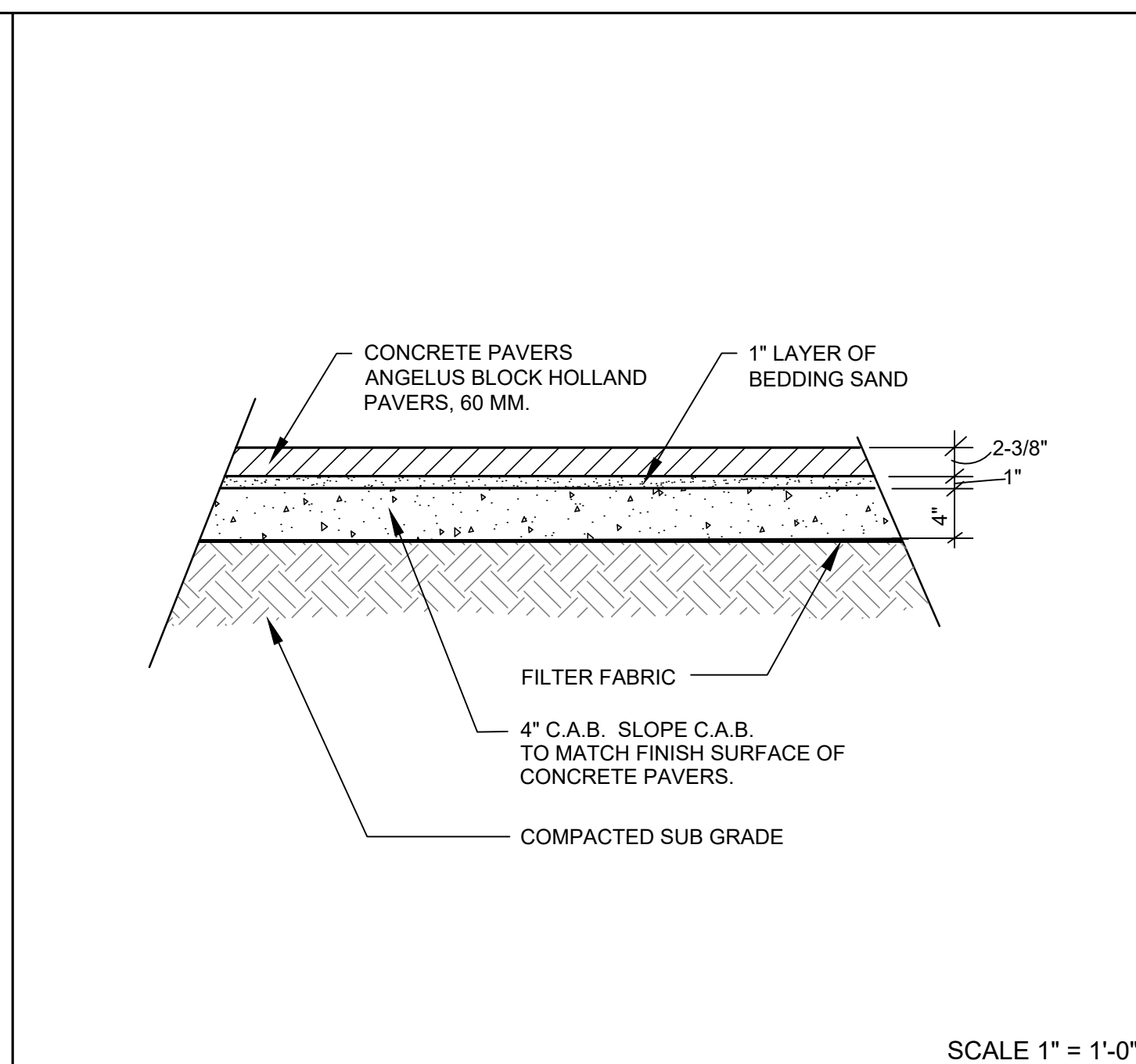
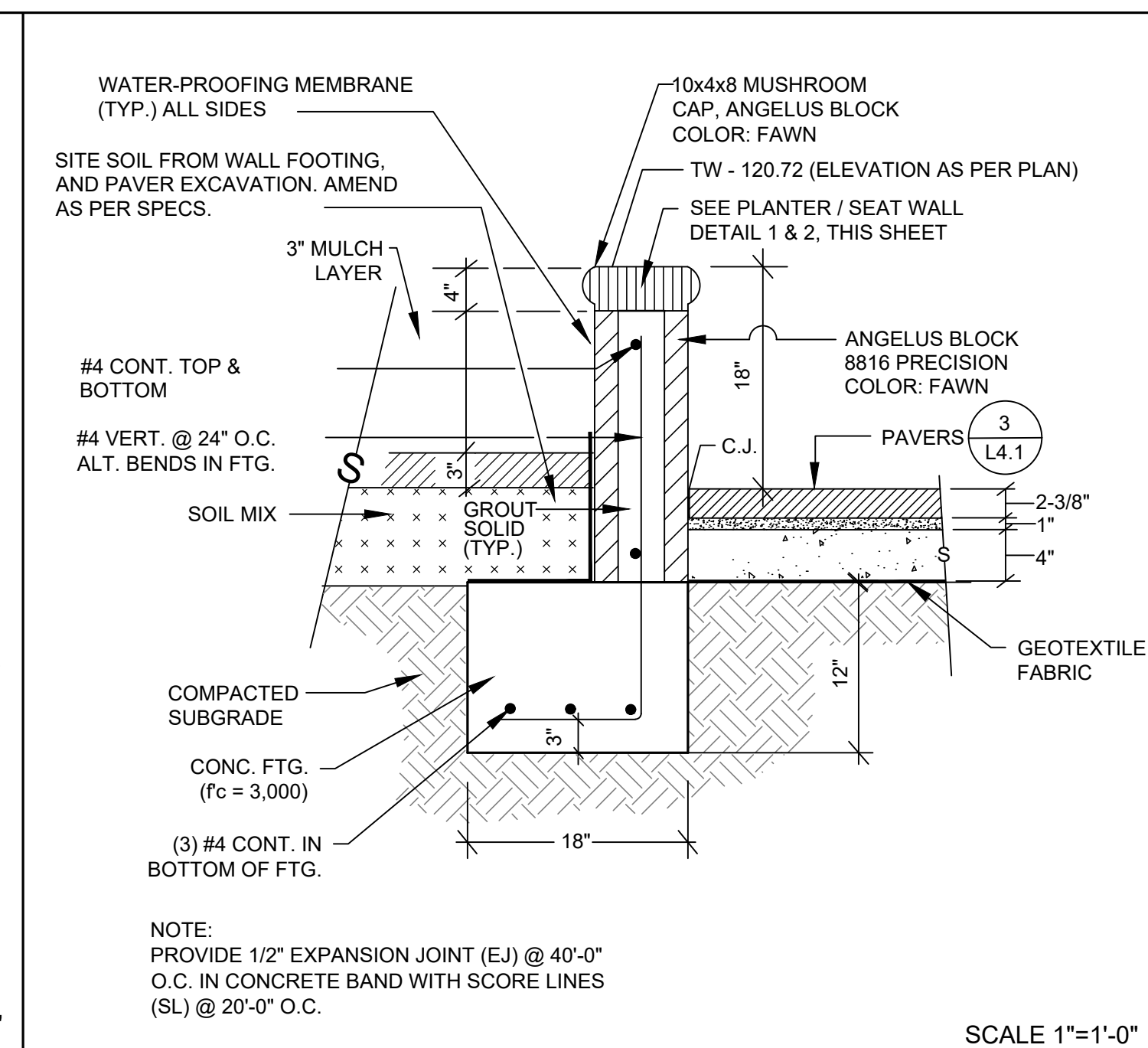
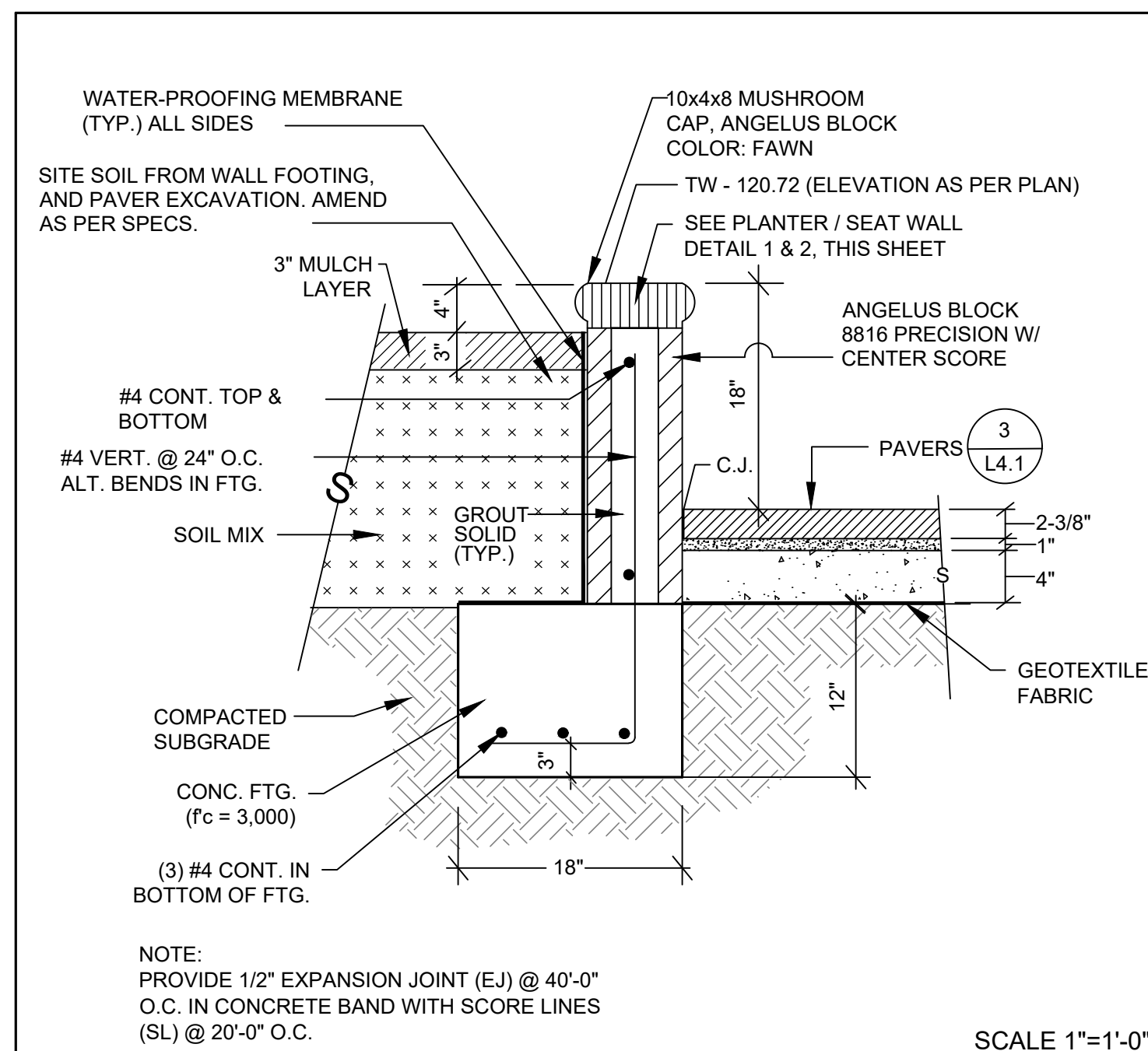
CLIENT
PLEASANT VALLEY
SCHOOL DISTRICT
600 Temple Avenue
Camarillo, CA. 93010

SHEET TITLE
STAKING PLAN

PROJECT
Las Posas Elementary
Central Quad
75 Calle La Guerra
Camarillo, CA 93010

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DRAWING
L3.1
SHEET 3 OF 8
PROJECT No. 23.30

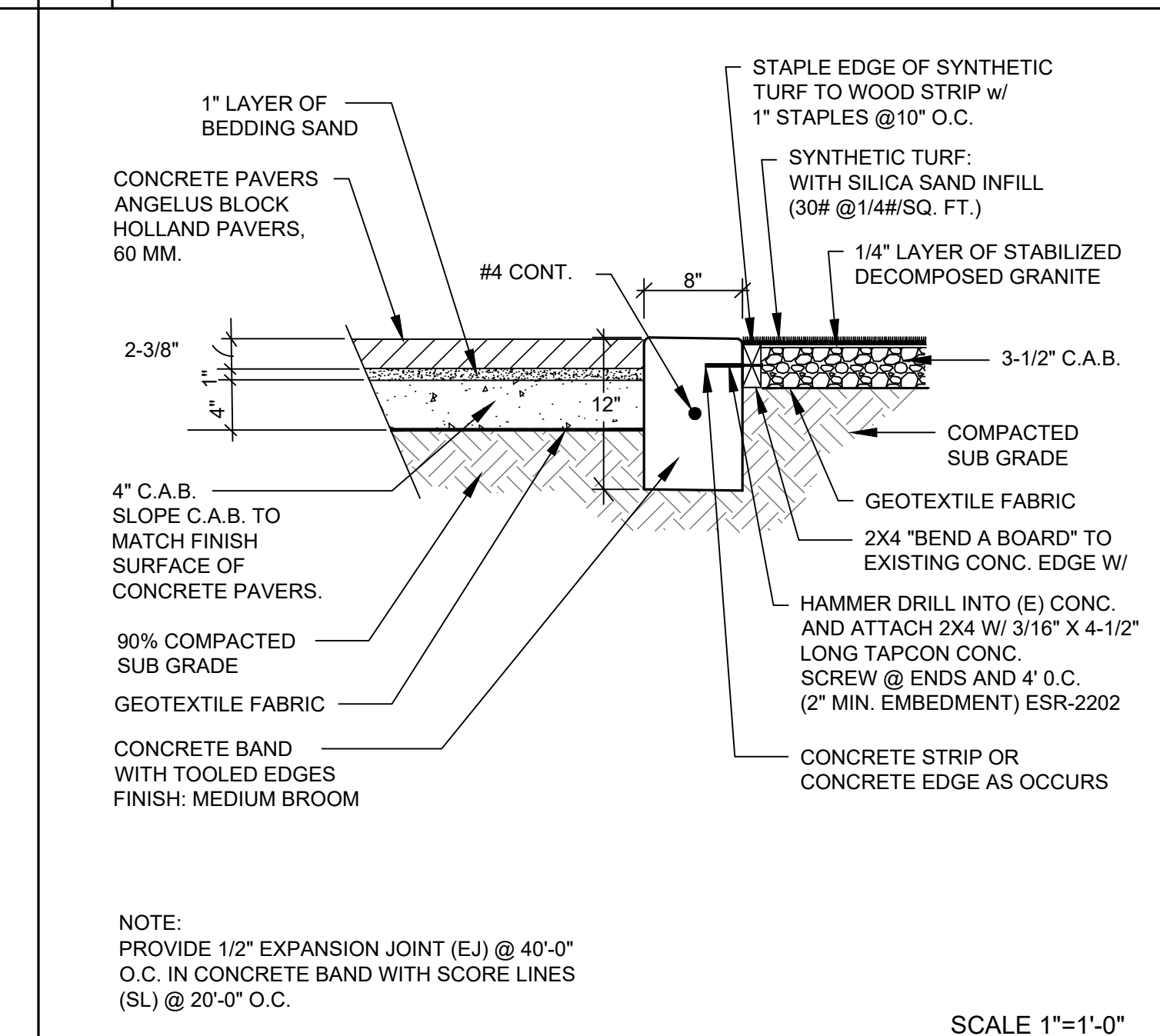
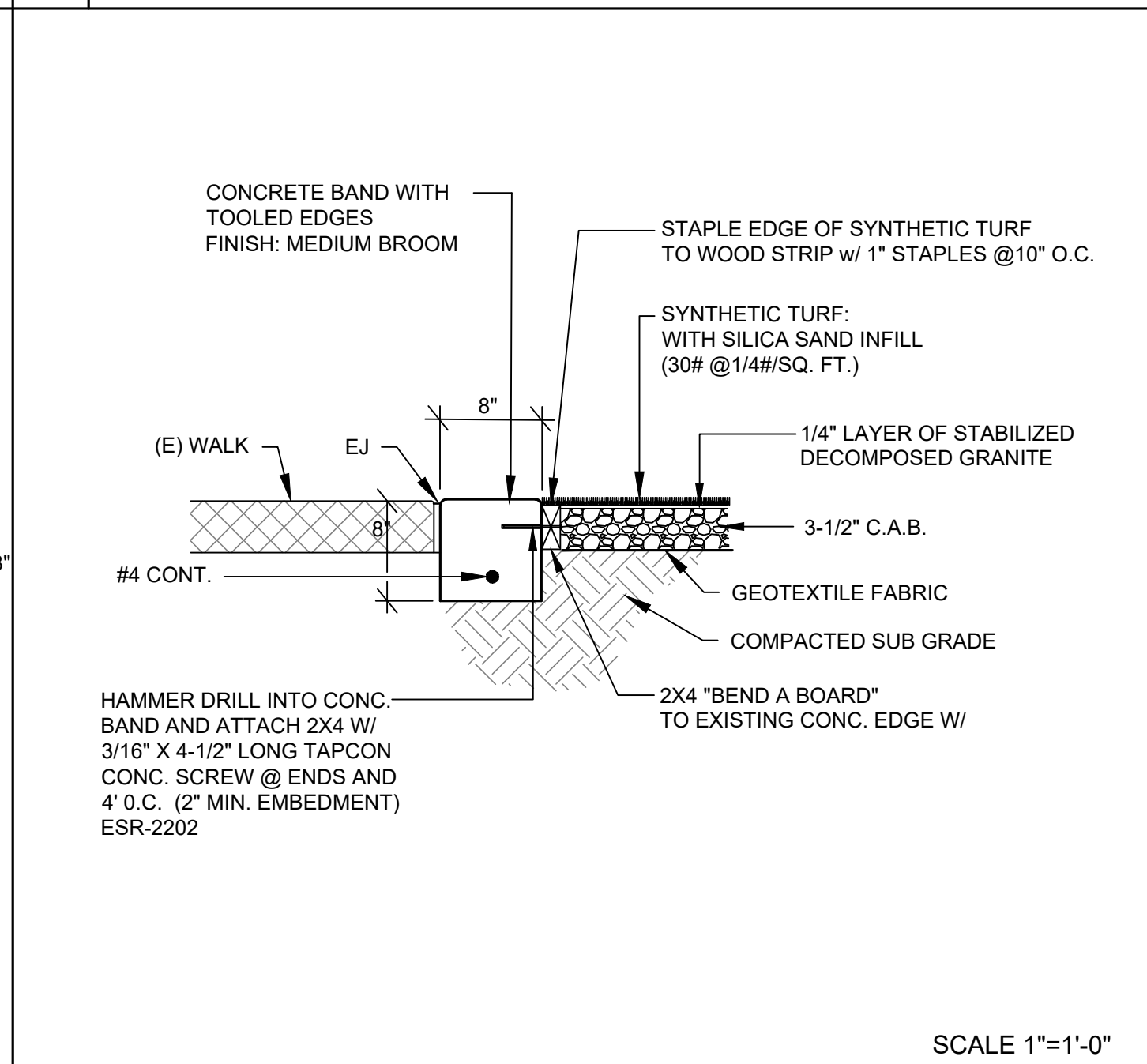
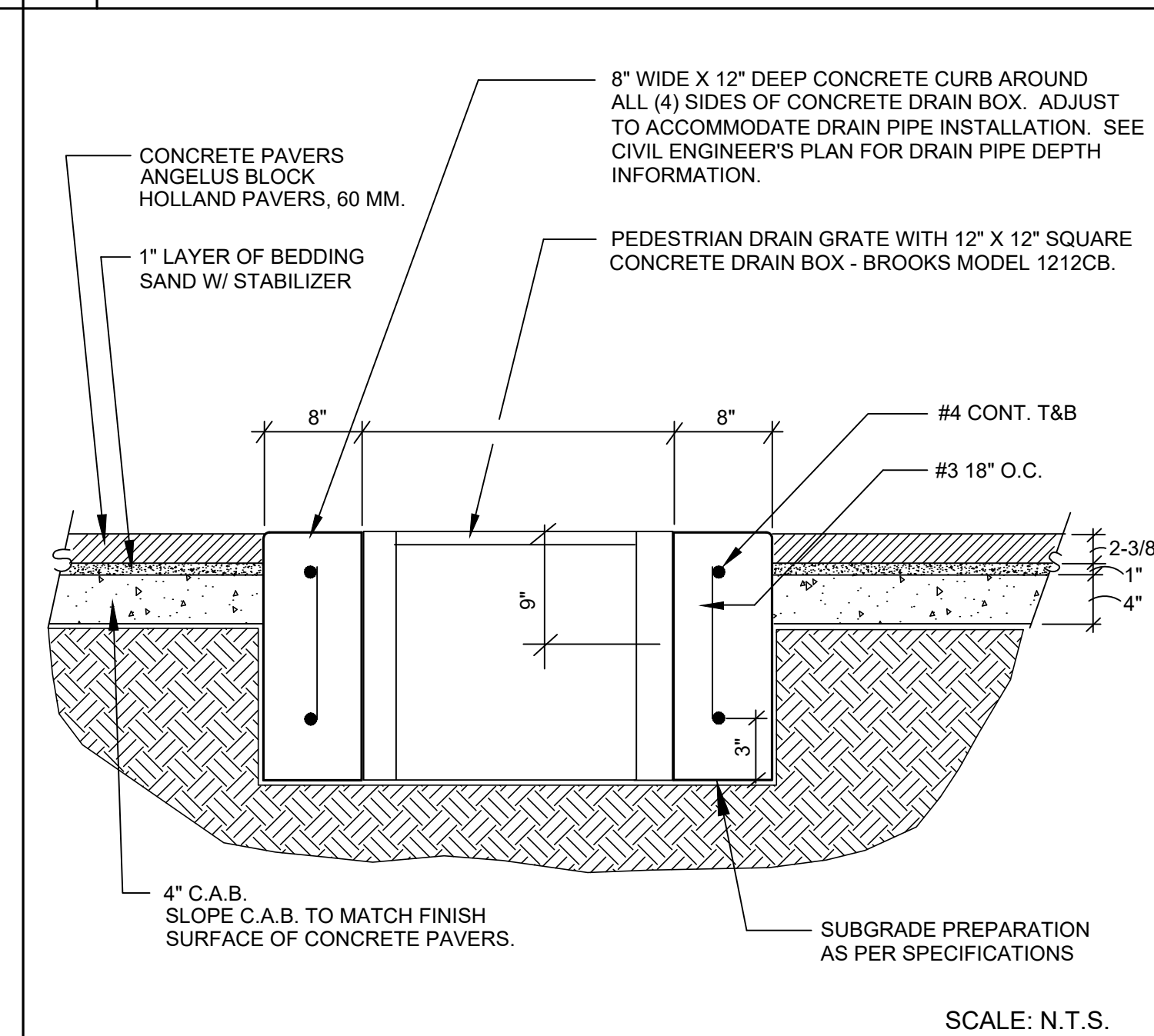
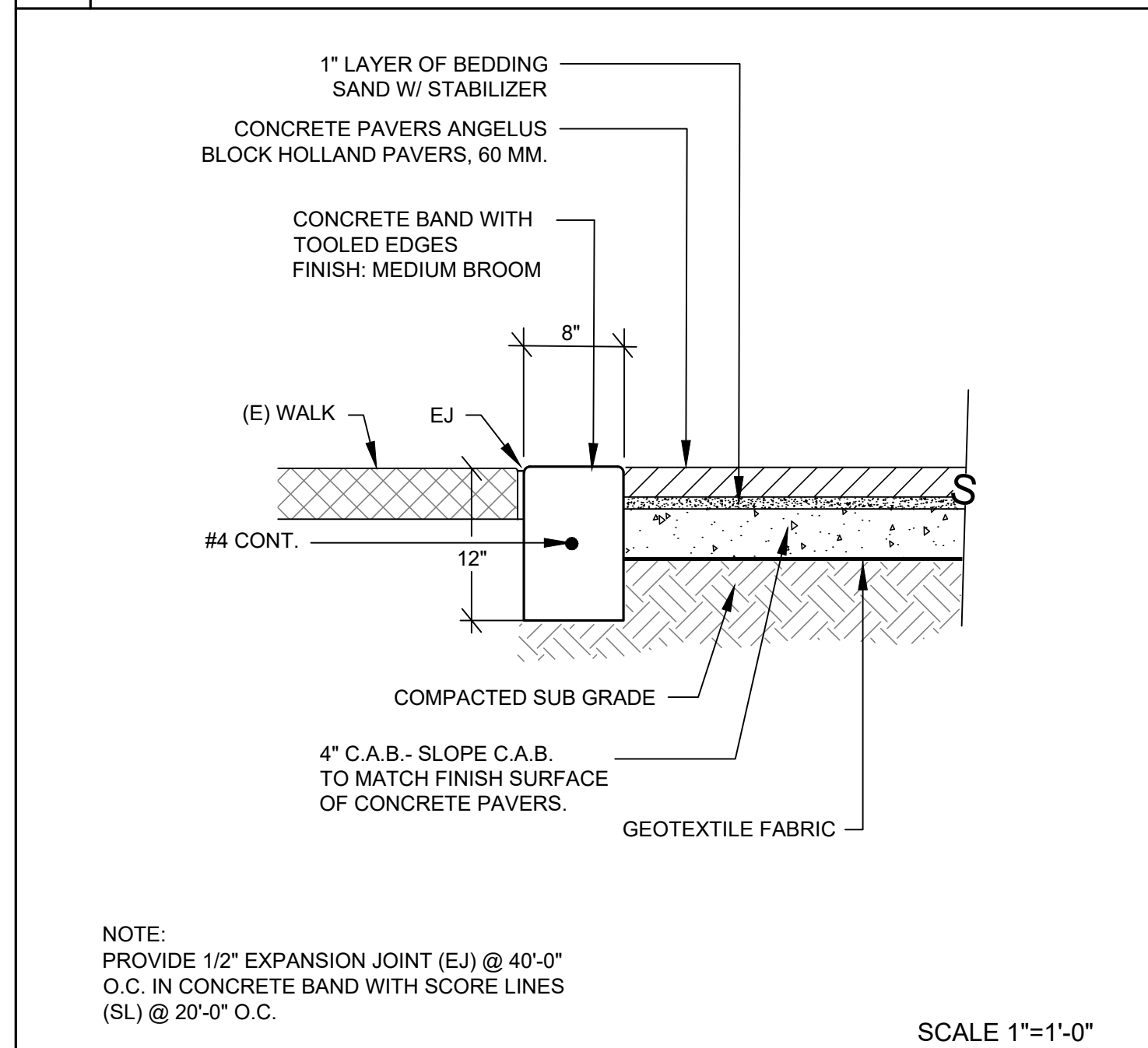


1	RAISED PLANTER SEAT WALL ADJACENT TO CONCRETE PAVERS
---	--

2	TREE PLANTER SEAT WALL ADJACENT TO CONCRETE PAVERS
---	--

3	CONCRETE PAVERS
---	-----------------

4	8" CONCRETE BAND SEPARATING PAVERS
---	------------------------------------

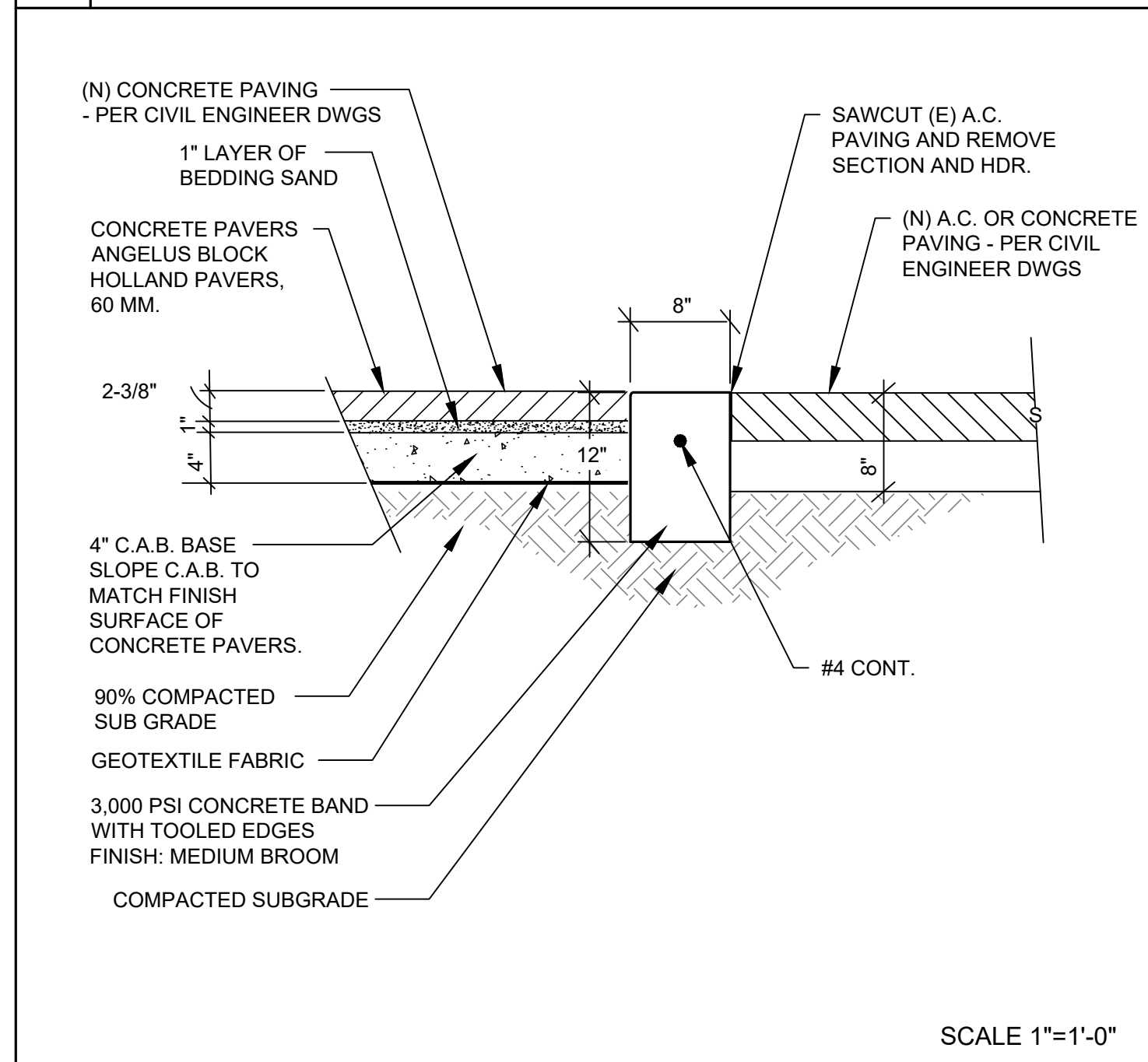


5	CONCRETE BAND AT CONCRETE PAVERS AND (E) SIDEWALK
---	---

6	CONCRETE CURB AROUND CONCRETE DRAIN BOX
---	---

7	CONCRETE BAND AT SYNTHETIC TURF AND (EX) SIDEWALK
---	---

8	CONCRETE BAND AT CONCRETE PAVERS AND SYNTHETIC TURF
---	---



9	CONCRETE BAND AT (EX) PAVING
---	------------------------------

10	
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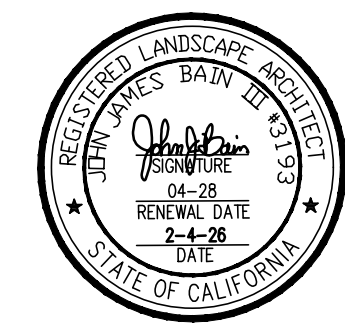
11	
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12	NOT USED
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SHEET TITLE
CONSTRUCTION DETAILS

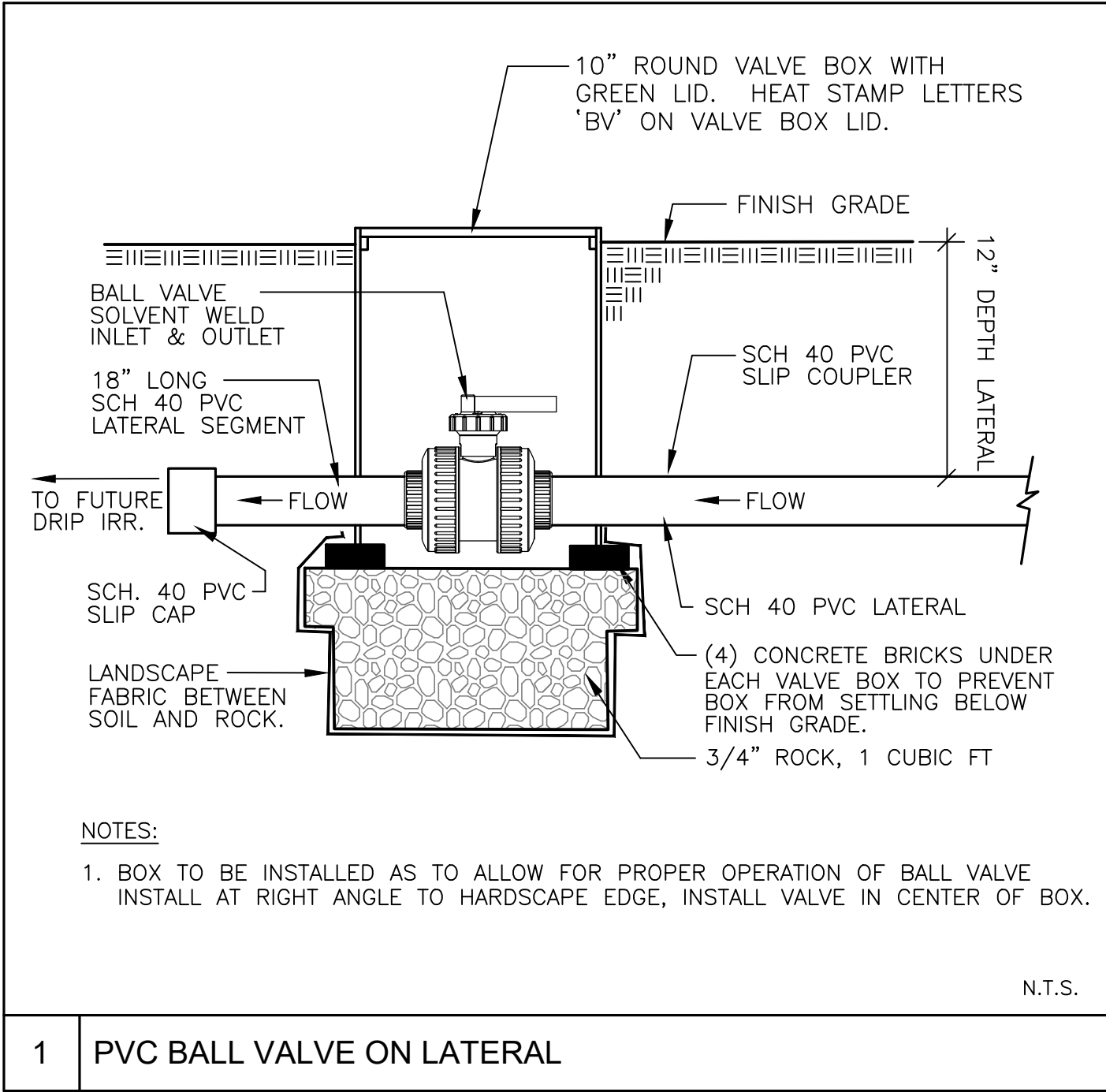
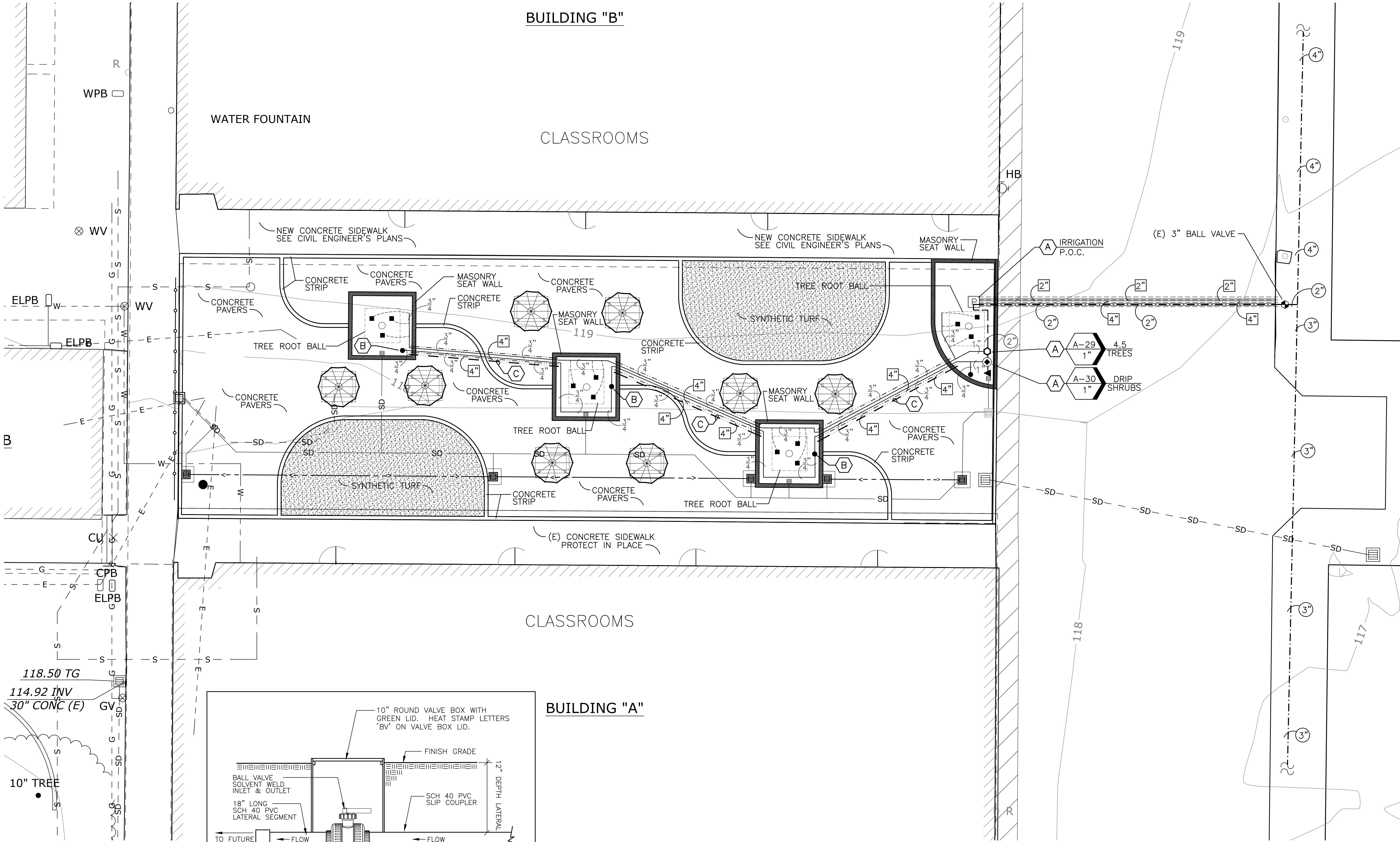
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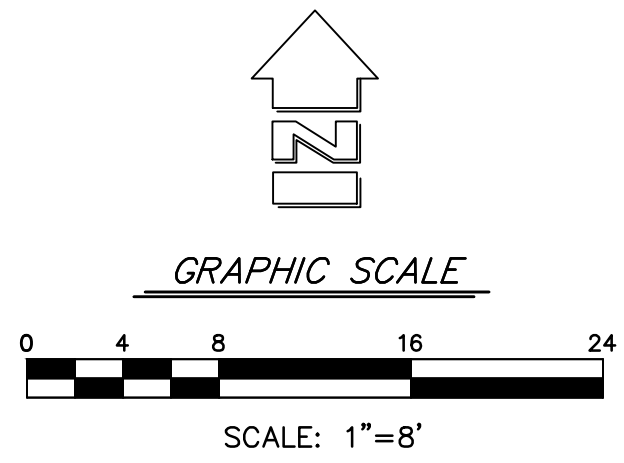
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L3.2

SHEET 4 OF 8
PROJECT No. 23.30



NOTE:
SEE SHEET L4.2 FOR IRRIGATION LEGEND.



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REVISIONS		
NO.	DATE	DESCRIPTION

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SCHOOL DISTRICT**
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Camarillo, CA. 93010

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Central Quad**
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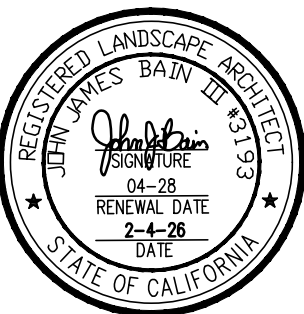
SHEET TITLE
IRRIGATION PLAN

DRAWING
L4.1

SHEET 5 OF 8
PROJECT No. 23.30

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SHEET 6 OF 8

PROJECT No. 23.30

1. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR AND THE PLEASANT VALLEY SCHOOL DISTRICT (P.V.S.D.) REPRESENTATIVE SHALL PARTICIPATE IN A THOROUGH IRRIGATION SYSTEM REVIEW OF THE PROJECT SITE. ALL REMOTE CONTROL VALVES SHALL BE TURNED ON AND OBSERVED IN OPERATION BY BOTH THE CONTRACTOR AND P.V.S.D. REPRESENTATIVE. ANY EXISTING DEFECTS WILL BE LISTED IN DETAIL IDENTIFYING THE SPECIFIC VALVE STATION NUMBER AND DESCRIBING THE EXACT BROKEN OR NON FUNCTIONING IRRIGATION COMPONENT. DURING THE IRRIGATION SYSTEM REVIEW, THE IRRIGATION SYSTEM SHALL BE OPERATED BY THE CONTRACTOR AND BOTH PARTIES SHALL IDENTIFY THE ITEMS IDENTIFIED BY BOTH PARTIES LISTING ALL REMOTE CONTROL VALVES OPERATED, IDENTIFYING IF THE VALVE PERFORMED WITHOUT ANY DEFECTS OR SPECIFICALLY IDENTIFYING ANY OBSERVED DEFECTS OR NON FUNCTIONING COMPONENTS, SUCH AS BROKEN HEADS, CLOGGED NOZZLES, NON OPERATING VALVE SOLENOID, BROKEN PIPING, OR OTHER NOTED DEFECT. THE COMPLETED SUMMARY OF ITEMS NOTED SHALL BE LISTED ON A DOCUMENT CALLED "EXISTING IRRIGATION SYSTEM OBSERVATIONS". THIS DOCUMENT SHALL BE SIGNED BY THE CONTRACTOR AND SUBMITTED TO THE P.V.S.D. REPRESENTATIVE FOR A CONFIRMING SIGNATURE. THE MUTUALLY SIGNED "EXISTING IRRIGATION SYSTEM OBSERVATIONS DOCUMENT" SHALL BE SENT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT FOR INSPECTION PURPOSES AT THE CONCLUSION OF THE CONSTRUCTION WORK. IF REQUESTED BY THE P.V.S.D. REPRESENTATIVE, THE CONTRACTOR SHALL PROVIDE A LIST OF THE EXISTING DEFECTIVE IRRIGATION COMPONENTS IDENTIFIED WITHIN THE LANDSCAPE ARCHITECT'S REVIEW. EACH ITEM IDENTIFIED ON THE LIST, A COPY OF THIS PROPOSAL WILL BE SENT TO THE LANDSCAPE ARCHITECT. THIS ADDITIONAL WORK PROPOSAL MUST BE REVIEWED AND APPROVED IN WRITING BY THE P.V.S.D. STAFF AND FORMALLY PRESENTED TO THE GENERAL CONTRACTOR BEFORE THE LANDSCAPE SUB-CONTRACTOR CAN BEGIN ANY ADDITIONAL REPAIR WORK. THE MUTUALLY SIGNED "EXISTING IRRIGATION SYSTEM OBSERVATION DOCUMENT" SHALL BE USED AS A GUIDE TO IDENTIFY ANY COLLATERAL DAMAGE CAUSED TO THE EXISTING IRRIGATION SYSTEM AS A RESULT OF NEW CONSTRUCTION PERFORMED ON SITE BY THE CONTRACTORS. ANY DAMAGE CAUSED TO THE EXISTING IRRIGATION SYSTEM NOT SPECIFICALLY IDENTIFIED ON THE "EXISTING IRRIGATION SYSTEM OBSERVATION DOCUMENT" SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. IN THE EVENT THAT THE CONTRACTOR DOES NOT PARTICIPATE OR PERFORM THE EXISTING IRRIGATION SYSTEM REVIEW, THE EXISTING IRRIGATION SYSTEM EQUIPMENT COMPONENTS DAMAGED ON THE PROJECT SITE NOTED BY THE LANDSCAPE ARCHITECT DURING THE FINAL IRRIGATION SYSTEM REVIEW SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THEIR EXPENSE AND TO THE SATISFACTION OF THE P.V.S.D. REPRESENTATIVE.

2. FIELD VERIFY EXISTING STATIC WATER PRESSURE AND NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING ANY WORK.

3. CONTACT DIG ALERT AT 1-800-227-2600 TO IDENTIFY AND LOCATE ALL ON-SITE UTILITIES PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL COORDINATE WITH THE PLEASANT VALLEY SCHOOL DISTRICT (P.V.S.D.) REPRESENTATIVE AND REVIEW THE EXISTING SITE PRIOR TO BEGINNING WORK TO AVOID CONFLICTS WITH FUTURE CONSTRUCTION PROJECTS SCHEDULED ON SITE.

4. PROTECT IN PLACE AND KEEP IN WORKING CONDITION ALL EXISTING IRRIGATION SYSTEMS NOT A PART OF THIS WORK. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY EXISTING MAINLINE SEGMENT, LATERAL, IRRIGATION CONTROL WIRE, HYDRAULIC TUBING, REMOTE CONTROL VALVE, VALVE BOX, QUICK COUPLER, OR ANY OTHER IRRIGATION SYSTEM COMPONENT DAMAGED DURING THE RENOVATION PROCESS. ADJACENT FUNCTIONING IRRIGATION SYSTEM COMPONENTS MUST BE KEPT IN WORKING CONDITION TO MAINTAIN THE HEALTH AND VIGOR OF THE EXISTING TURF AND LANDSCAPE PLANTINGS. PROLONGED LACK OF WATER TO THESE PLANTERS AS A RESULT OF NEW CONSTRUCTION WORK THAT RESULTS IN THE LOSS OF TURF OR PLANTS SHALL BE REPLACED BY THE CONTRACTOR AT THEIR COST AND TO THE SATISFACTION OF THE P.V.S.D.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRENCH SETTLING OR IRRIGATION HEAD SETTLING. ALL TRENCHES WILL BE BACK FILLED WITH CLEAN SOIL, COMPACTED AND PLANTED WITH APPROVED SEED OR PLANT MATERIAL AS PER PLAN. ALL HEADS THAT SETTLE WILL BE RAISED TO 1/2" ABOVE FINISH GRADE OR AS DIRECTED BY EITHER THE LANDSCAPE ARCHITECT OR P.V.S.D. REPRESENTATIVE. PROVIDE ADDITIONAL SOIL AS NECESSARY AND HAND TAMP AROUND HEAD TO PREVENT FUTURE SETTLING.

6. SLEEVE ALL PVC IRRIGATION PIPES AND WIRES INSTALLED UNDER PAVING. WIRES SHALL BE ENCLOSED IN SCH. 40 PVC ELECTRICAL CONDUIT SIZED BY THE CONTRACTOR, NO LESS THAN 2" IN SIZE. MAINLINE SLEEVES SHALL BE SIZED AS PER LEGEND ON PLAN. SEE SPECIFICATIONS AND IRRIGATION SLEEVING SCHEDULE FOR ADDITIONAL INFORMATION.

7. THE IRRIGATION SYSTEM IS SHOWN DIAGRAMMATICALLY. INSTALL ALL IRRIGATION EQUIPMENT WITHIN LANDSCAPE PLANTERS WHENEVER POSSIBLE.

8. ALL SPRINKLER HEADS SPECIFIED ON THIS PROJECT ARE EQUIPPED WITH FACTORY INSTALLED CHECK VALVES IN THE SPRINKLER BODY. IN THE EVENT THAT LOW HEAD DRAINAGE STILL OCCURS, THE CONTRACTOR SHALL INSTALL INLINE SWING CHECK OR SPRING LOADED CHECK VALVES ON THE PVC LATERALS TO PREVENT LOW HEAD DRAINAGE. ANY INLINE CHECK VALVE INSTALLED ON PVC LATERALS MUST BE FURNISHED WITH A 10" ROUND PLASTIC VALVE BOX WITH A LOCKING GREEN PLASTIC LID.

9. ALL VALVE BOXES INSTALLED IN CONCRETE OR ASPHALT PAVING SHALL BE TRAFFIC RATED CONCRETE BOXES (13'-1/4"W X 24'-1/4"L X 12"D) WITH CONCRETE LIDS. BOXES SHALL BE MANUFACTURED BY OLDCASTLE PRE-CAST, BOX MODEL N30BOX, UD MODEL B30D, CONCRETE BOX EXTENSION MODEL B30X12, OR CHRISTY CONCRETE BOX EQUIVALENT. ALL RECTANGULAR PLASTIC VALVE BOXES SHALL HAVE THE MINIMUM DIMENSIONS OF (14'-1/2"W X 19'-1/2"L X 12'-1/4"H) AND SHALL HAVE GREEN LOCKING PLASTIC LIDS. THE CONTRACTOR SHALL INCLUDE WITH THE COST OF THE PROJECT ANY PLASTIC VALVE BOX EXTENSION THAT MIGHT BE REQUIRED TO COMPLETE THE VALVE INSTALLATION AS PART OF THE BASE BID. PLASTIC BOX MANUFACTURER'S AND MODEL NUMBERS SHALL BE CARSON MODEL 1419-12 WITH 1419-4B 'T-STYLE GREEN LID', APPLIED ENGINEERING PRODUCTS MODEL 1015T-1G2G, OR NDS MANUFACTURING APPROVED EQUAL.

10. USE ONLY SCH. 80 PVC NIPPLES WHEN INSTALLING VALVES REQUIRING THREADED FITTINGS. SCH. 40 PVC MALE ADAPTERS SHALL NOT BE USED ON ANY VALVE ASSEMBLY CONNECTED TO A PRESSURIZED MAINLINE.

11. MAKE ALL REQUIRED ADJUSTMENTS TO BOTH EXISTING AND NEW SPRINKLER HEADS TO PREVENT ANY IRRIGATION WATER FROM OVER SPRAYING ON TO ADJACENT PAVEMENT OR CLASSROOM BUILDINGS. MAKE ANY NOZZLE REPLACEMENTS AS REQUESTED BY EITHER THE LANDSCAPE ARCHITECT OR P.V.S.D. REPRESENTATIVE TO IMPROVE IRRIGATION COVERAGE OR TO BALANCE PRECIPITATION RATE TO LANDSCAPE PLANTER AS PART OF BASE BID.

12. HEAT STAMP OR "BRAND" INTO THE PLASTIC REMOTE CONTROL VALVE BOX LIDS THE NEW VALVE STATION NUMBER AND RELATED NEW AUTO CONTROLLER LETTER. PROVIDE CHRISTY STANDARD SIZE I.D. TAGS CONNECTED TO ALL NEW REMOTE CONTROL VALVE SOLENOIDS WITH STATION NUMBER AND RELATED EXISTING AUTO CONTROLLER IDENTIFICATION LETTER.

13. ALL WATER TIGHT CONNECTORS USED TO SPLICE 14 GAUGE WIRES TO REMOTE CONTROL VALVE SOLENOIDS OR TO REPAIR BROKEN EXISTING REMOTE CONTROL VALVE WIRES ON THIS PROJECT SHALL BE MANUFACTURED BY 3M COMPANY, MODEL DBR-Y6 SERIES, SPEARS MODEL DS-400 WITH SPEARS DS-300 SEALANT, OR P.V.S.D. APPROVED EQUAL.

14. INSTALL ALL IRRIGATION REMOTE CONTROL VALVES, BALL VALVES, AND QUICK COUPLING VALVES A MINIMUM DISTANCE OF 10'-0" FROM ALL TREE TRUNK LOCATIONS ILLUSTRATED ON PLANTING PLAN. CONFIRM LAYOUT OF EXISTING OR NEW TREE LOCATIONS PRIOR TO INSTALLING ANY VALVE.

15. EXISTING IMPROVEMENTS WITHIN THE WORK AREAS SHALL REMAIN AND BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED. DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED IN KIND TO A CONDITION EQUAL TO OR BETTER THAN THAT WHICH EXISTED PRIOR TO CONSTRUCTION.

16. UTILITIES MAY HAVE BEEN OMITTED ON THE IRRIGATION SHEETS. REVIEW ALL AVAILABLE P.V.S.D. 'AS-BUILT' RECORD DRAWINGS AND EXERCISE CARE IN EXCAVATION WHILE PROTECTING EXISTING UTILITIES IN PLACE.

17. PRESSURE REGULATING REMOTE CONTROL VALVES SHALL BE ADJUSTED BY CONTRACTOR USING MANUFACTURER'S SPECIFICATIONS TO OPERATE SPRINKLER HEADS AT PRESSURE INDICATED ON IRRIGATION LEGEND.

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	REMARKS	DETAIL
-----	(E) PVC SLEEVING	UNKNOWN	CL. 200 / SCH. 40 PVC	SOLVENT WELD – 24" BELOW GRADE – UNLESS OTHERWISE NOTED ON PLAN	N/A
-----	NEW PVC SLEEVING	PACIFIC / P.W. EAGLE	CL. 200 / SCH. 40 PVC	SOLVENT WELD – 24" BELOW GRADE – UNLESS OTHERWISE NOTED ON PLAN	1 / L6.1
-----	NEW SPARE PVC SLEEVE	PACIFIC / P.W. EAGLE	CL. 200 / SCH. 40 PVC	SOLVENT WELD – 24" BELOW GRADE – 4" SPARE EMPTY SLEEVE FOR POSSIBLE FUTURE USE	1 / L6.1
-----	(E) IRRIGATION MAINLINE	UNKNOWN	GASKETED SDR 21 PVC	24"-30" BELOW GRADE – UNLESS OTHERWISE NOTED ON PLAN	N/A
-----	NEW IRRIGATION MAINLINE	PACIFIC / P.W. EAGLE	SCH. 40 PVC SOLVENT WELD	SOLVENT WELD – 24" BELOW GRADE	1, 8 / L6.1
-----	NEW IRRIGATION LATERAL	PACIFIC / P.W. EAGLE	SCH. 40 PVC SOLVENT WELD	SOLVENT WELD – 12" BELOW GRADE	1 / L6.1
-----	NEW PVC FLEXIBLE HOSE	GPH IRRIGATION INC.	GPVCSAR050IIR "STICKY STRIPE"	3/8" IPS SOLVENT WELD PVC HOSE – STAPLE IN PLACE WITH JUTE NETTING STAKES	5 / L6.1

NO SYMBOL	(E) AUTO CONTROLLER	WEATHERMATIC	SMART LINE SERIES	36 STATIONS - IN STAINLESS STEEL PEDESTAL - PROTECT IN PLACE	N/A
●	(E) REMOTE CONTROL VALVE	SUPERIOR	950DW SERIES - BRASS BODY	PROTECT IN PLACE UNLESS OTHERWISE INSTRUCTED ON IRRIGATION PLAN	N/A
⦿	(E) PVC BALL VALVE	COLONIAL / LASCO	VXX101N-SC SERIES	SCH. 80 PVC SOLVENT WELD BODY - LINE SIZE - INSTALLED IN A RECT. VALVE BOX - GREEN LID	N/A
⦿	(N) REMOTE CONTROL VALVE	WEATHERMATIC	MAX-DW-XPR SERIES	PRESSURE REGULATING GLASS-NYLON VALVE BODY- 225 PSI RATING - IN A VALVE BOX	2 / L6.1
⦿	(N) 1" DRIP REMOTE CONTROL VALVE ASSEMBLY	WEATHERMATIC / RAIN BIRD	MAX-DW-10 / WITH RAIN BIRD PRB-QKCHK-100 FILTER	INSTALL 1" PVC BALL VALVE, (1") MAX-DW-10 REMOTE CONTROL VALVE, AND RAIN BIRD PRB-QKCHK-100 PRESSURE COMPENSATING DRIP FILTER IN A JUMBO VALVE BOX	3 / L6.1
▲	(N) QUICK COUPLER	BUCKNER	QB4R4C-10	1" SIZE, RUBBER COVER, BRASS, INSTALLED IN A 10" ROUND GREEN VALVE BOX	4 / L6.1
●	(N) PVC BALL VALVE	SPEARS, LASCO, EQUAL	SCH. 40 PVC SLIP BODY	1/2" SIZE - USED FOR FUTURE DRIP SYSTEM P.O.C. - IN A 10" ROUND GREEN VALVE BOX	1 / L4.1
⌈	(E) CONCRETE VALVE BOX	UNKNOWN	UNKNOWN	RECTANGULAR VALVE BOX - REINSTALL FLUSH WITH NEW CONCRETE PAVERS	8 / L6.1

SYMBOL					DESCRIPTION	MANUFACTURER	MODEL & REMARKS	PSI	RAD	GPM	GPM	GPM	GPM	GPM	GPM	
Q	T	H	TQ	F						Q	T	H	TQ	F		
					■ NEW TREE FLOOD BUBBLER	HUNTER / GPH IRRIGATION CO.	HUNTER MODEL PCB-50 BLACK PLASTIC, 3/4" FPT, PRESSURE COMPENSATING FLOOD BUBBLER NOZZLE DISCHARGING 0.5 GALLON PER MINUTE. INSTALL (3) HUNTER FLOOD BUBBLER ASSEMBLIES PER EACH TREE USING IRRIGATION SIZE (3/4" IPS) FLEXIBLE PVC HOSE, G.P.H. MODEL GPVCSAR050IR BLACK (IN COLOR) WITH (2) SOLVENT CEMENT G.P.H. MODEL G436075B BLACK PVC MALE ADAPTERS. CUT LENGTH OF FLEXIBLE PVC TUBING STARTING FROM RIGID PVC LATERAL SUPPLY TO LENGTH NEEDED TO INSTALL BUBBLER WITHIN PLANT BASIN IN THE FIELD. USE I.P.S. PIPE PRIMER MODEL "P-70" AND I.P.S. SOLVENT CEMENT MODEL "795" FOR ALL FLEXIBLE PVC TUBING WELDS TO BLACK COLORED G.P.H. MALE ADAPTERS. SECURE TUBING TO FINISH GRADE SURFACE WITH 6" LONG GALV. STEEL STAPLES INSTALLED 3'-0" O.C. SEE TREE FLOOD BUBBLER FOR EXACT LAYOUT FOR 3/4" IPS PVC FLEX TUBING AROUND TREE ROOT BALL.	30	1					0.50	5 / L6.1	

SYMBOL	DESCRIPTION
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A POINT OF CONNECTION 'A':
FIELD VERIFY AN (E) CONCRETE VALVE BOX HOUSING A CAPPED 2" CLASS 315 PVC WITH THREE BUNDLED 14-GAUGE IRRIGATION WIRES, (1) WHITE COMMON WIRE, (1) WHITE WIRE WITH A RED STRIPE, AND (1) RED WIRE. THE (E) RED WIRE AND WHITE WIRE WITH RED STRIPE ARE BUNDLED IN THE BASE OF THE (E) AUTO CONTROLLER AND HAVE BEEN IDENTIFIED WITH A TIED KNOT AT THE END OF THE WIRE FOR IDENTIFICATION PURPOSES. THE (E) WHITE WIRE IS AN ACTIVE COMMON WIRE. EXCAVATE AND SALVAGE THE (E) CONCRETE TRAFFIC RATED VALVE BOX AND RETURN TO THE PVSD REPRESENTATIVE. REPLACE THIS BOX WITH A NEW STANDARD RECTANGULAR PLASTIC VALVE BOX TO BE USED AS A WIRE SPLICE BOX. INSTALL WIRE SPLICE BOX FLUSH WITH FINISH GRADE OF NEW RAISED LANDSCAPE PLANTER. CUT OFF AND REMOVE EXISTING 2" SCH. 40 PVC CAP TO ALLOW WATER TO FLOW THROUGH MAINLINE PIPING. TRENCH AND INSTALL NEW 2" CLASS 315 PVC MAINLINE FROM (E) MAINLINE POINT OF CONNECTION TO NEW REMOTE CONTROL VALVES AND A NEW QUICK COUPLER AS PER IRRIGATION PLAN. INSTALL NEW 1" REMOTE CONTROL VALVE 'A-29' FOR TREE BUBBLERS AND A NEW 1" DRIP REMOTE CONTROL VALVE 'A-30' FOR FUTURE SHRUBS. INSTALL NEW QUICK COUPLER AT THE END ON THE NEW PVC MAINLINE. TRENCH AND INSTALL A NEW 1" SCH. 40 PVC ELECTRICAL CONDUIT WITH SWEEP ELBOWS STARTING FROM NEW WIRE SPLICE BOX INTO AND OUT OF ALL NEW REMOTE CONTROL VALVE BOXES. AT THE POINT OF CONNECTION WITHIN NEW WIRE SPLICE BOX, SPLICE NEW COLOR MATCHING 14-GAUGE COMMON AND CONTROL WIRES ONTO THE (E) WIRES SEGMENTS. PULL THE NEW 14-GAUGE WIRE SEGMENTS THROUGH THE 1" PVC WIRE SLEEVE INTO THE NEW REMOTE CONTROL VALVE BOXES. ALL NEW WIRE SPLICE CONNECTIONS AND CONNECTIONS TO NEW REMOTE CONTROL VALVE SOLENOIDS SHALL BE MADE USING 3M MODEL DBR-Y6 WATERPROOF WIRE SPLICES. CONNECT THE WHITE WIRE WITH RED STRIPE TO VALVE STATION NUMBER 'A-29' AT THE AUTO CONTROLLER LOCATION. INSTALL THE RED COLORED WIRE TO VALVE STATION NUMBER 'A-30' AT THE AUTO CONTROLLER LOCATION. SPLICE ON A NEW 14-GAUGE WHITE COMMON WIRE FROM SPLICE BOX, PULL THROUGH 1" CONDUIT, AND CONNECT TO NEW REMOTE CONTROL VALVE SOLENOIDS. PROVIDE NEW STANDARD YELLOW CHRISTY ID TAGS FOR ALL NEW REMOTE CONTROL VALVES.

B INSTALL A 1/2" SCH. 40 PVC BALL VALVE IN PLANTER FOR FUTURE DRIP IRRIGATION SYSTEM:
TRENCH AND INSTALL NEW SCH. 40 PVC LATERALS FROM NEW REMOTE CONTROL VALVE 'A-30' TO ALL (3) NEW LANDSCAPE PLANTERS. INSTALL A 1/2" SCH. 40 PVC SLIP BALL VALVE IN A 10" ROUND GREEN VALVE BOX FOR FUTURE SHRUB DRIP IRRIGATION SYSTEM. INSTALL A 12" LONG SEGMENT OF 1/2" SCH. 40 PVC PIPE DOWNSTREAM OF 1/2" SCH. 40 PVC BALL VALVE WITH A SOLVENT WELD CAP FOR USE AS A FUTURE DRIP SYSTEM POINT OF CONNECTION. REPEAT THIS DETAIL AT ALL (3) LANDSCAPE PLANTERS.

C INSTALL AN EXTRA EMPTY 4" CLASS 200 PVC SLEEVE WITH CAPS FOR POSSIBLE FUTURE USE:
INSTALL A SPARE, EMPTY 4" CLASS 200 PVC SLEEVE WITH SCH. 40 PVC SLIP CAPS PUSHED ONTO ENDS OF SLEEVES TO KEEP SOIL FROM ENTERING INTO THE EMPTY SLEEVE. EXTEND THE END OF THE SLEEVE AT LEAST 12" PAST THE MASONRY WALLS FOR EASE OF ACCESS. SLEEVES WILL BE INSTALLED ADJACENT TO SLEEVES CONTAINING LATERAL PIPING FOR POSSIBLE FUTURE USE.

ALL SLEEVES TO BE INSTALLED 24" BELOW GRADE		
MAINLINE OR / LATERAL PIPE SIZE		SLEEVE SIZE REQUIRED
3/4"	1 SCH. 40 PVC / CLASS 200 PVC	2" SCH. 40 PVC
1"	1 SCH. 40 PVC / CLASS 200 PVC	2" SCH. 40 PVC
1 1/4"	SCH. 40 PVC / CLASS 200 PVC	2 1/2" SCH. 40 PVC
1 1/2"	SCH. 40 PVC / CLASS 200 PVC	3" CLASS 200 PVC
2"	CLASS 315 / CLASS 200 PVC	4" CLASS 200 PVC
2 1/2"	CLASS 315 / CLASS 200 PVC	4" CLASS 200 PVC
3"	CLASS 315 / CLASS 200 PVC	6" CLASS 200 PVC
4"	CLASS 315 / CLASS 200 PVC	6" CLASS 200 PVC

NOTE:
ALL IRRIGATION WIRE SLEEVES SHALL BE GRAY SCH. 40 PVC
ELECTRICAL CONDUIT, MINIMUM 2" IN SIZE.

CALCULATIONS - VALVE A-29	4.5 GPM
AVAILABLE WATER PRES.	85.0 PSI
LOSS @ 2" WATER METER	0.1 PSI
LOSS METER TO BACKFLOW DEVICE	0.1 PSI
LOSS @ BACKFLOW DEVICE	14.0 PSI
LOSS FROM BACKFLOW TO PUMP	0.1 PSI
INLET PRESSURE @ PUMP	70.7 PSI
PRESSURE INCREASE @ PUMP (ONLY IF NEEDED)	35.0 PSI
LOSS FROM PUMP TO RCV	1.1 PSI
LOSS @ REMOTE CONTROL VALVE	1.5 PSI
LOSS RCV TO LAST HEAD	3.0 PSI
LOSS - ELEVATION CHANGE	2.5 PSI
TOTAL PRESSURE LOSS FROM PUMP	8.1 PSI
AVAILABLE PSI (WITHOUT PUMP)	70.7 PSI
PRESSURE AVAILABLE AT SPRINKLER HEAD INLETS	62.6 PSI
OPERATING PRESSURE:	30.0 PSI

A diagram of a hexagonal irrigation key with the following labels and components:

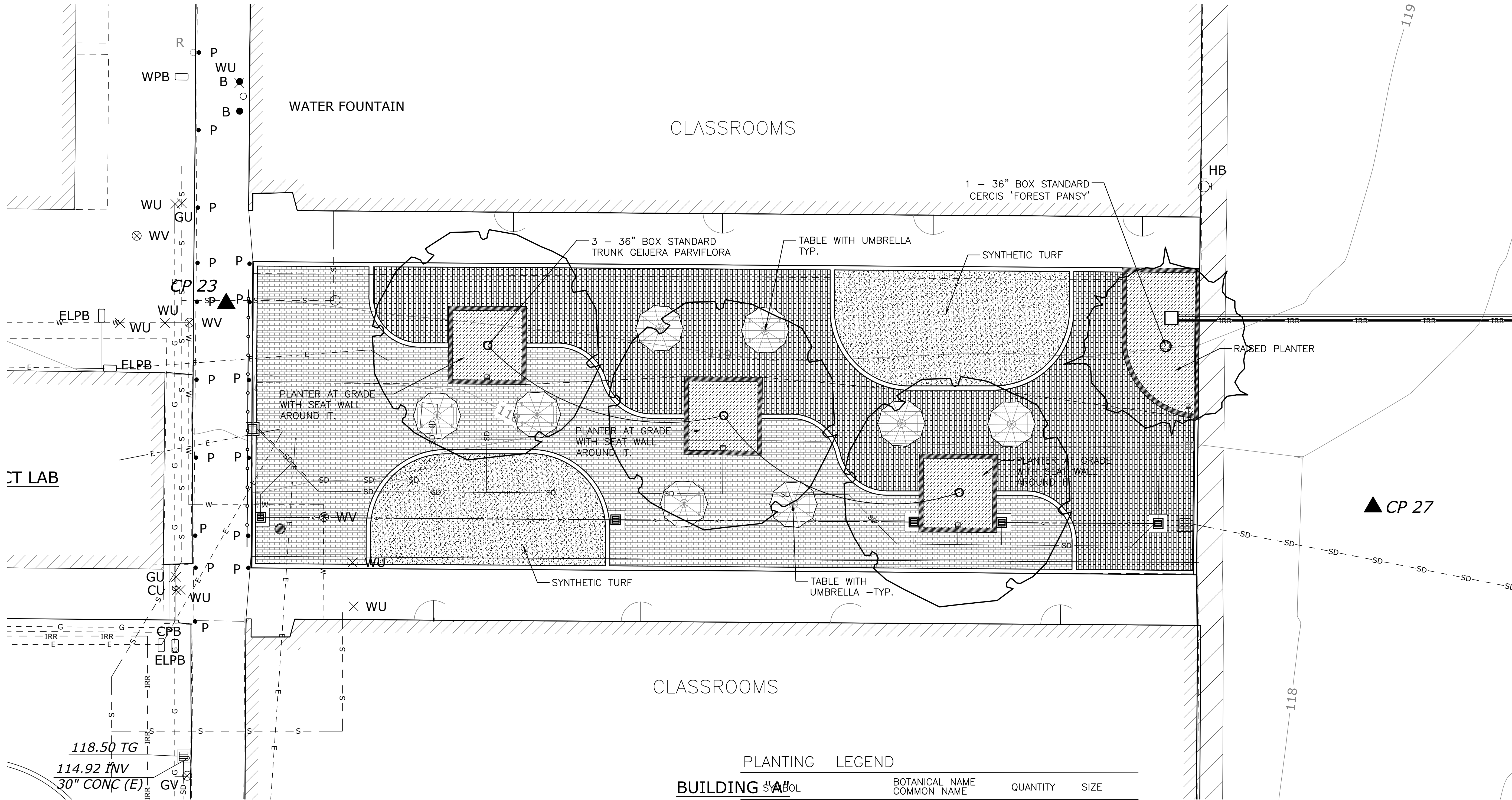
- AUTO CONTROLLER/STATION NUMBER**: Points to the top-left corner of the hexagon.
- IRRIGATION KEY NOTE**: Points to the top-right corner of the hexagon.
- GALLONS PER MINUTE**: Points to the number **4.5** on the right side of the hexagon.
- AREAS IRRIGATED**: Points to the number **1"** at the bottom of the hexagon.
- NEW REMOTE CONTROL VALVE SIZE**: Points to the number **29** in the center of the hexagon.



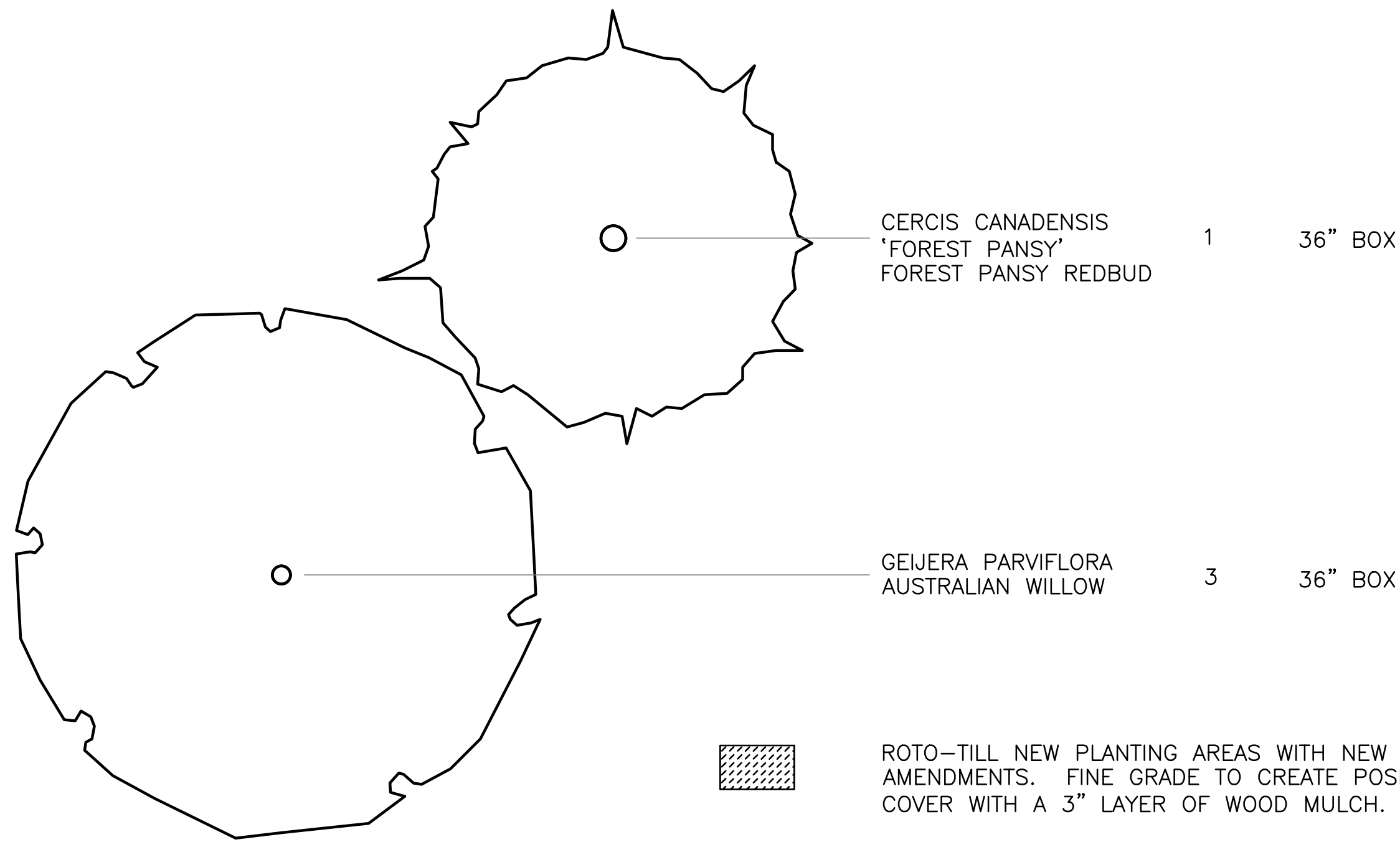
UNDERGROUND SERVICE ALERT

CALL : TOLL FREE
1-800-422-4133
OR
811

TWO WORKING DAYS BEFORE YOU DIG



PLANTING LEGEND			
BUILDING SYMBOL	BOTANICAL NAME COMMON NAME	QUANTITY	SIZE




GRAPHIC SCALE
0 4 8 16 24
SCALE: 1"=8'-0"


UNDERGROUND SERVICE ALERT
CALL : TOLL FREE
1-800-422-4133
OR
811
TWO WORKING DAYS BEFORE YOU DIG

THESE DRAWINGS, SPECIFICATIONS AND DESIGNS ARE INSTRUMENTS OF PROFESSIONAL SERVICES AND AS SUCH ARE THE PROPERTY OF JORDAN & BAIN LANDSCAPE ARCHITECTS, INC. REPRODUCTION OR OTHER USE NOT AUTHORIZED BY JORDAN & BAIN IS PROHIBITED WITHOUT WRITTEN APPROVAL.

REVISIONS		NO.	DATE	BY	DESCRIPTION

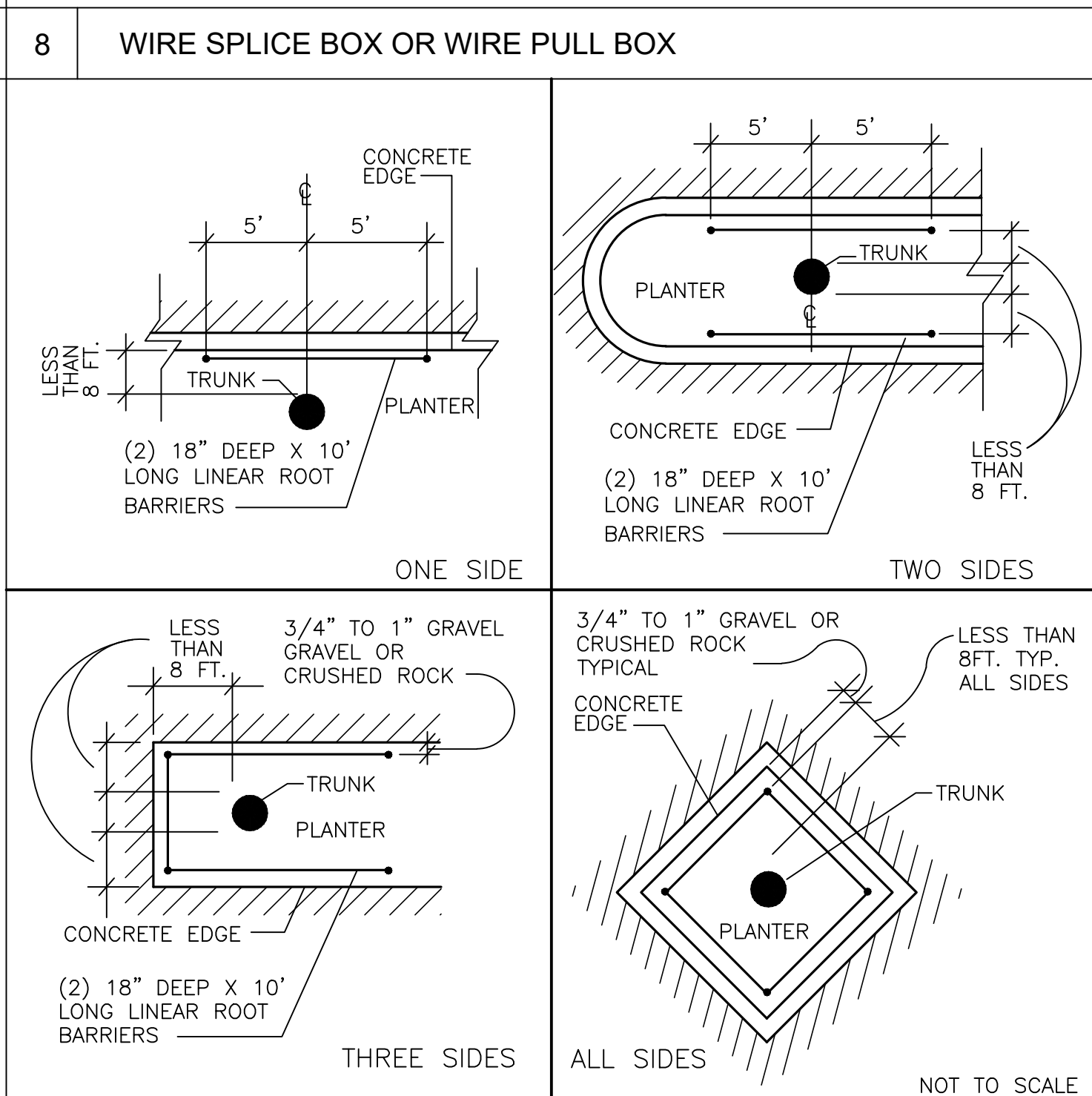
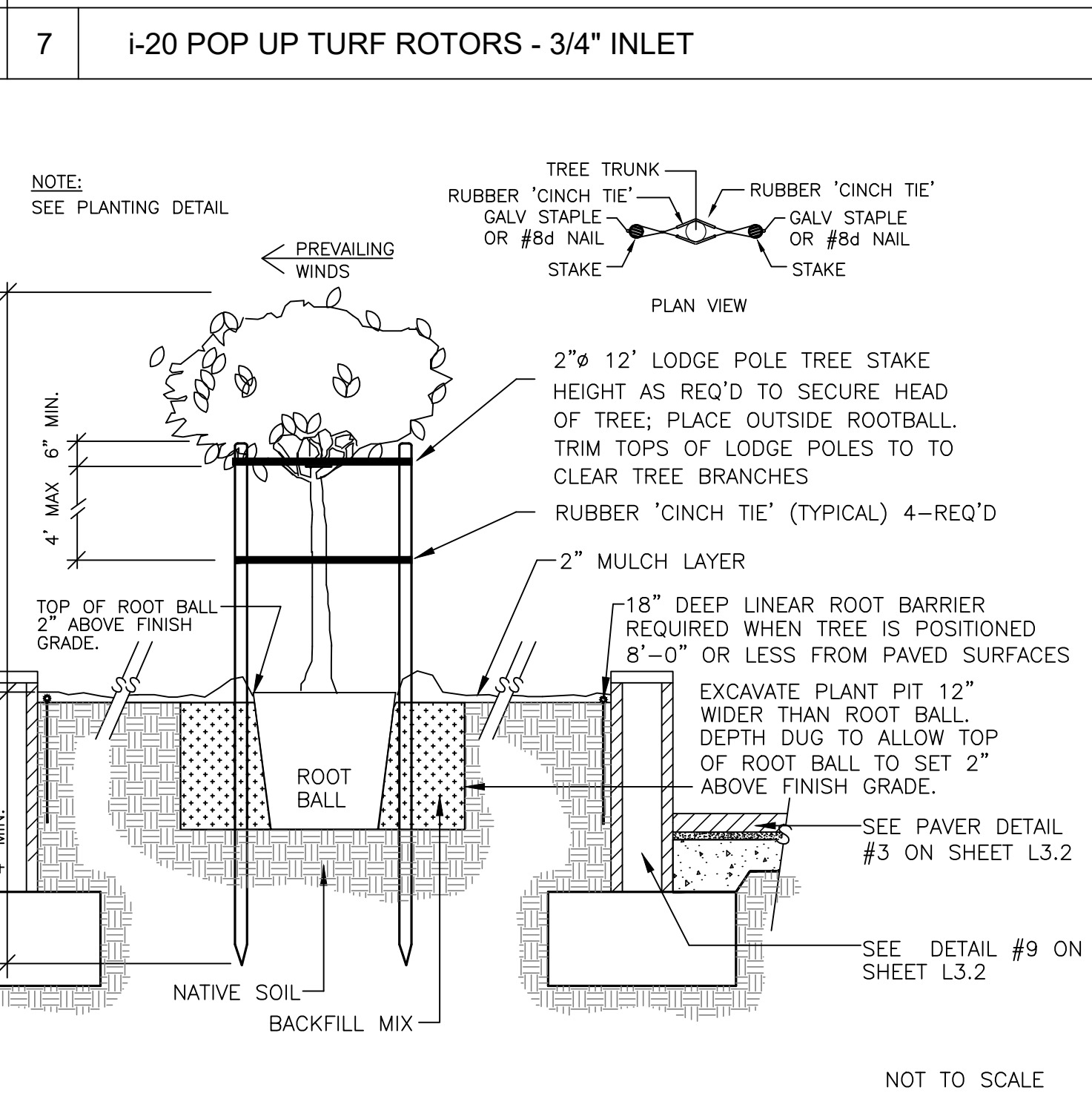
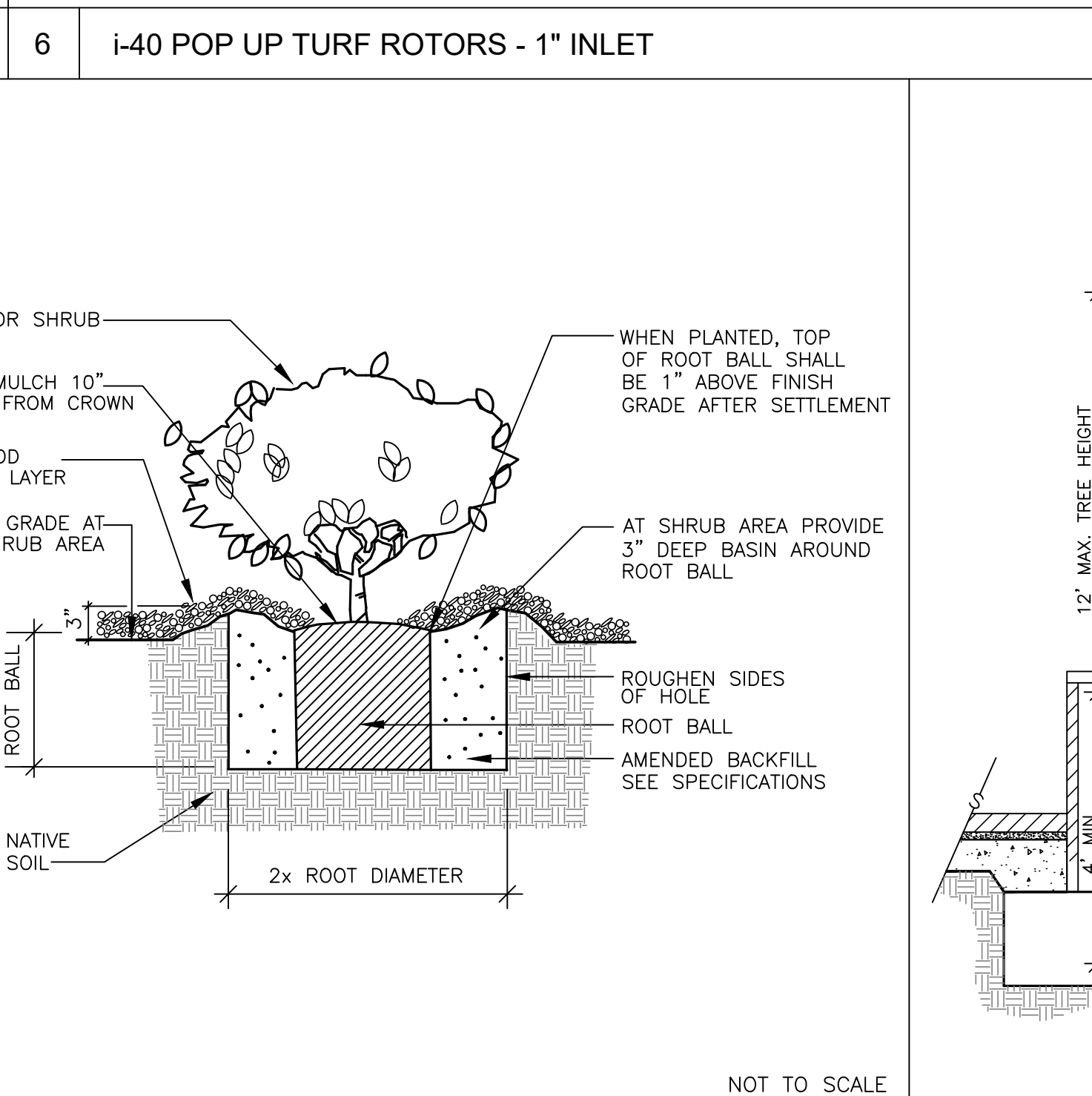
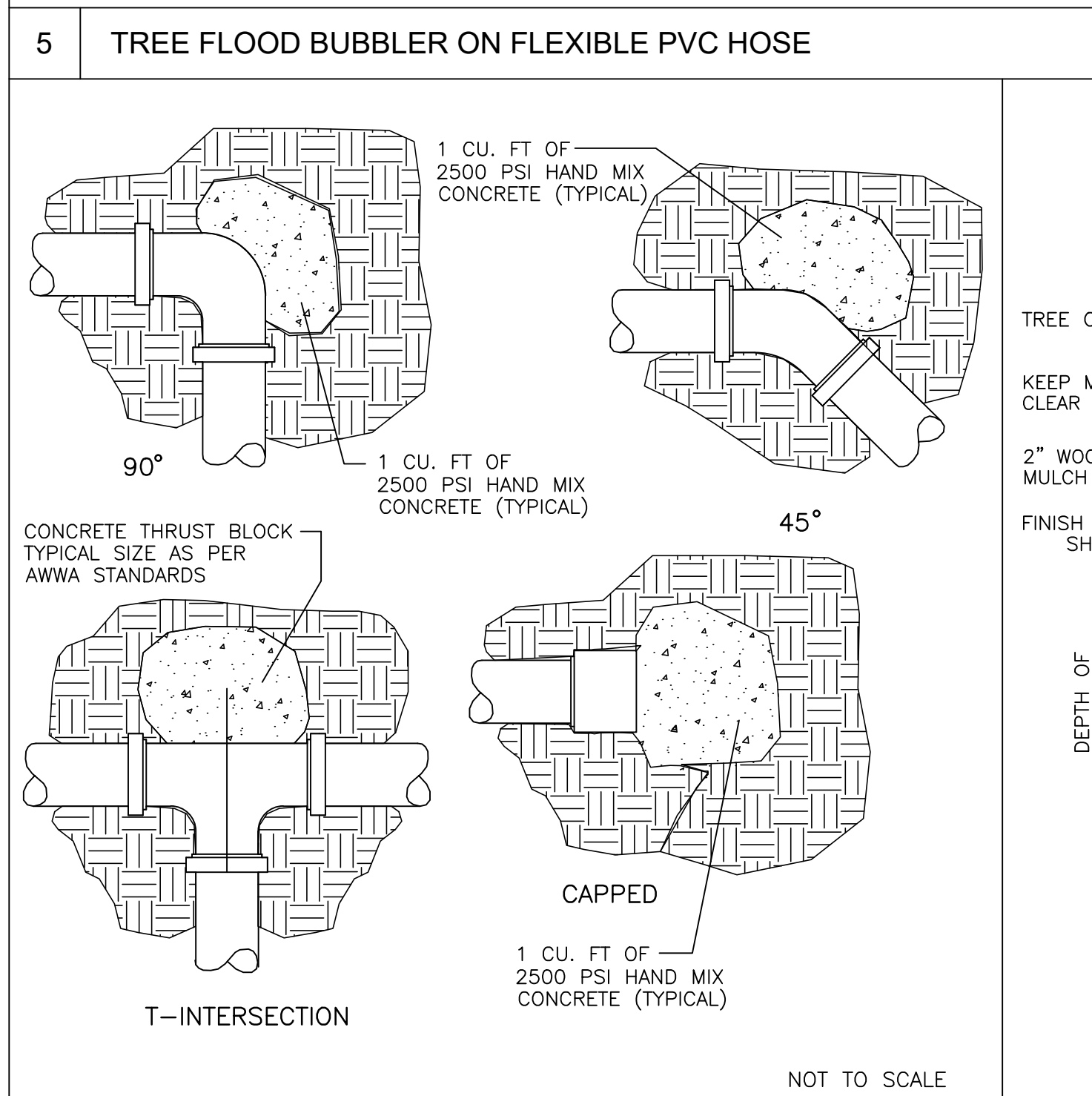
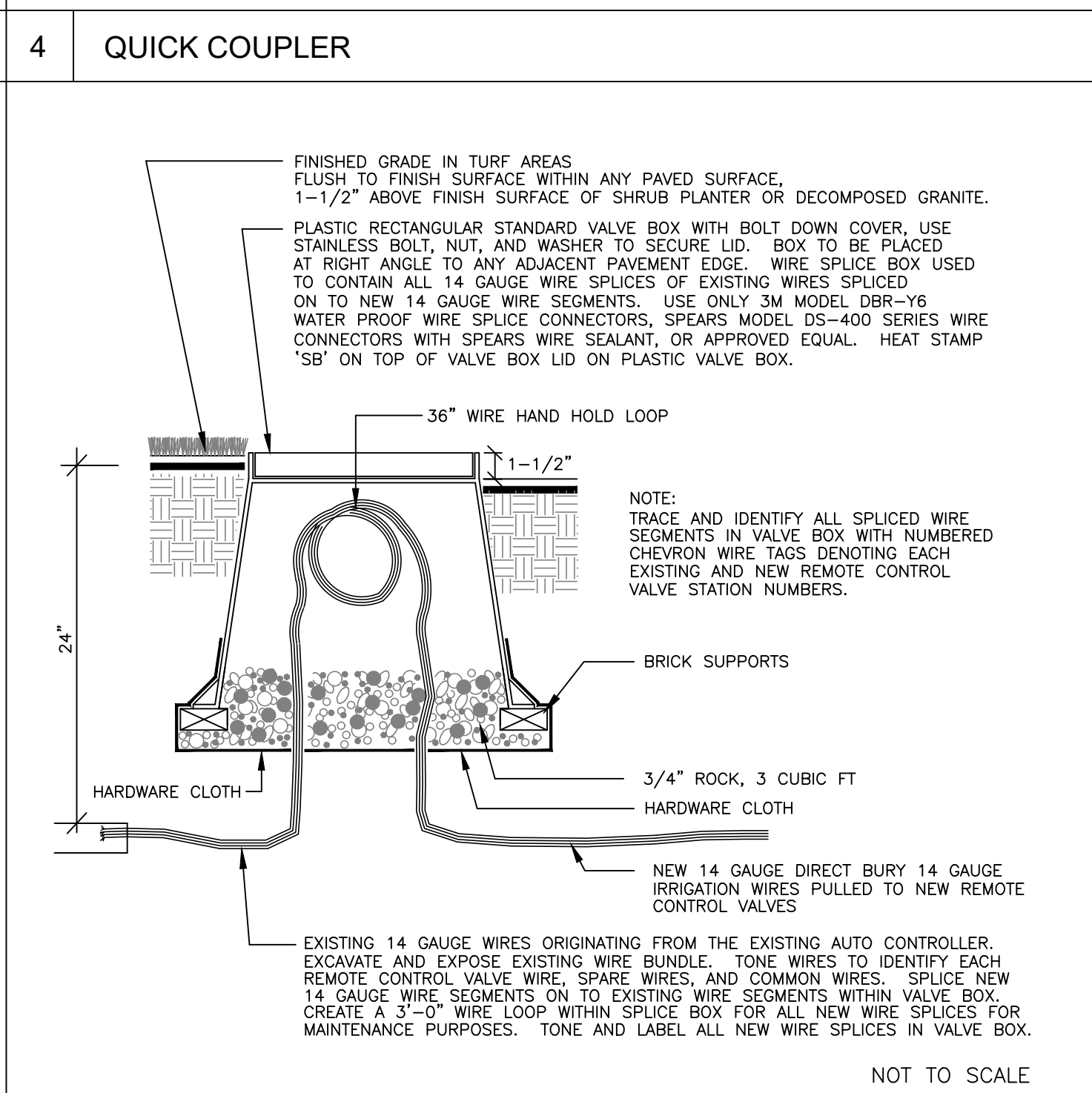
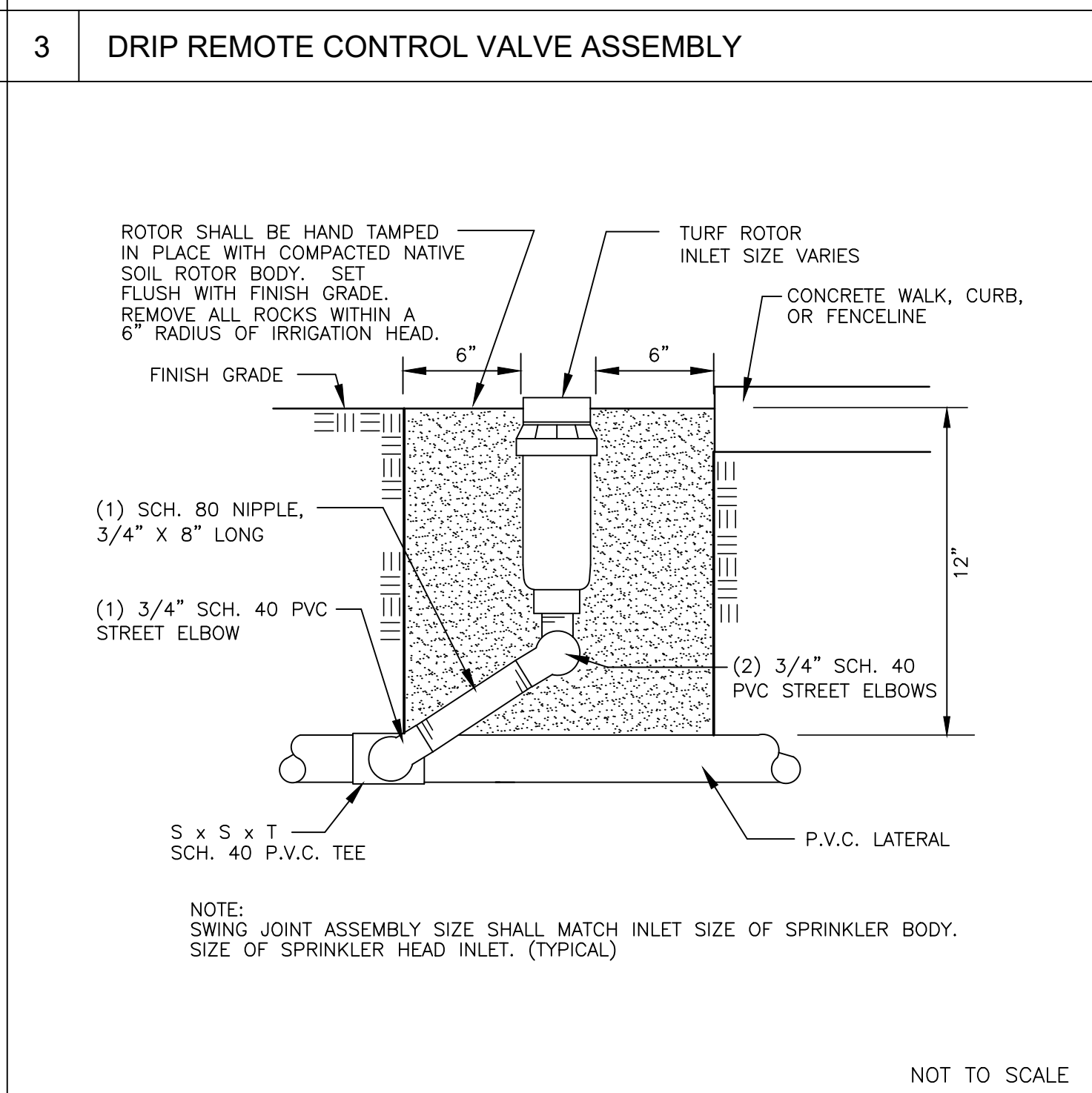
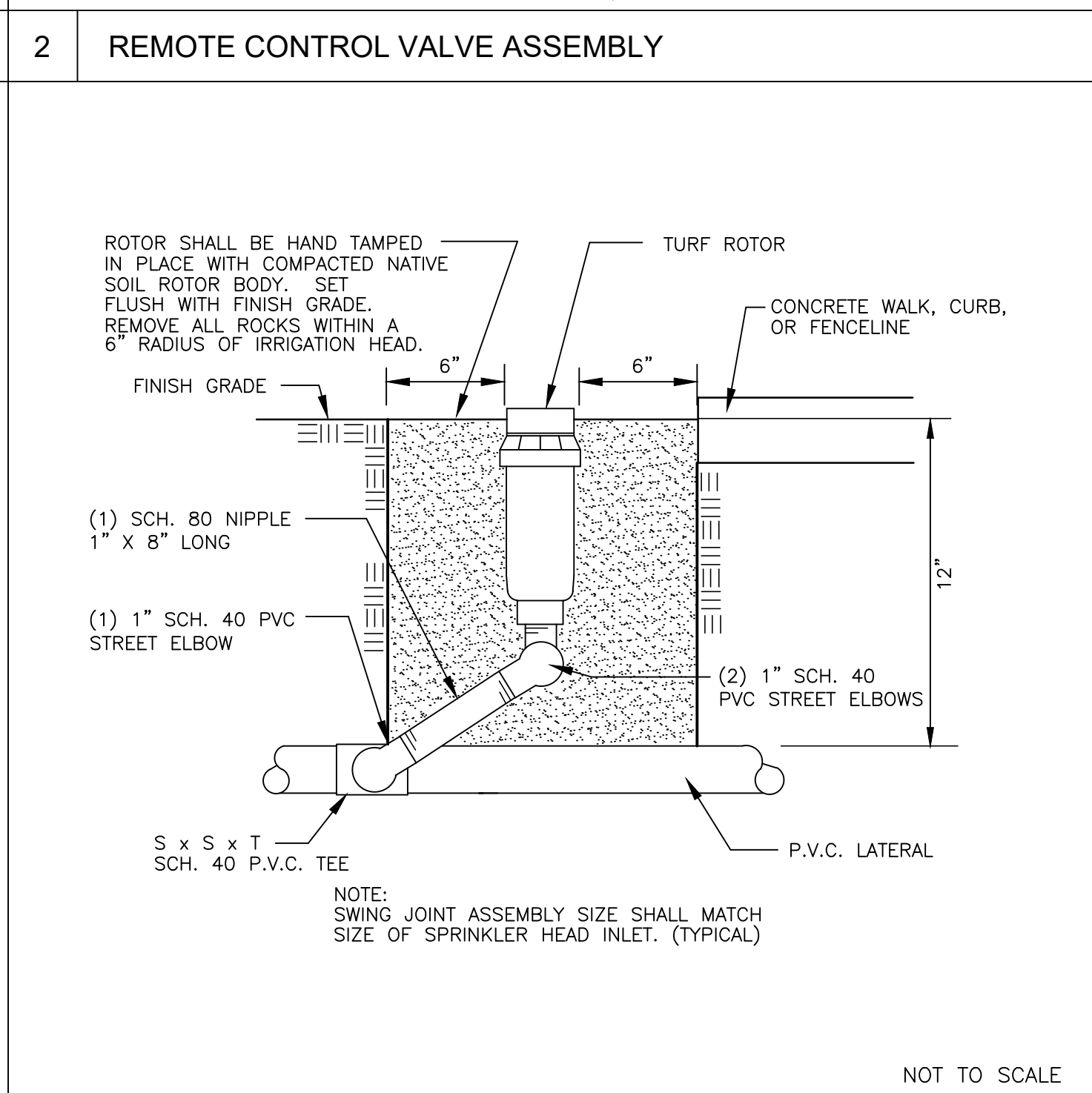
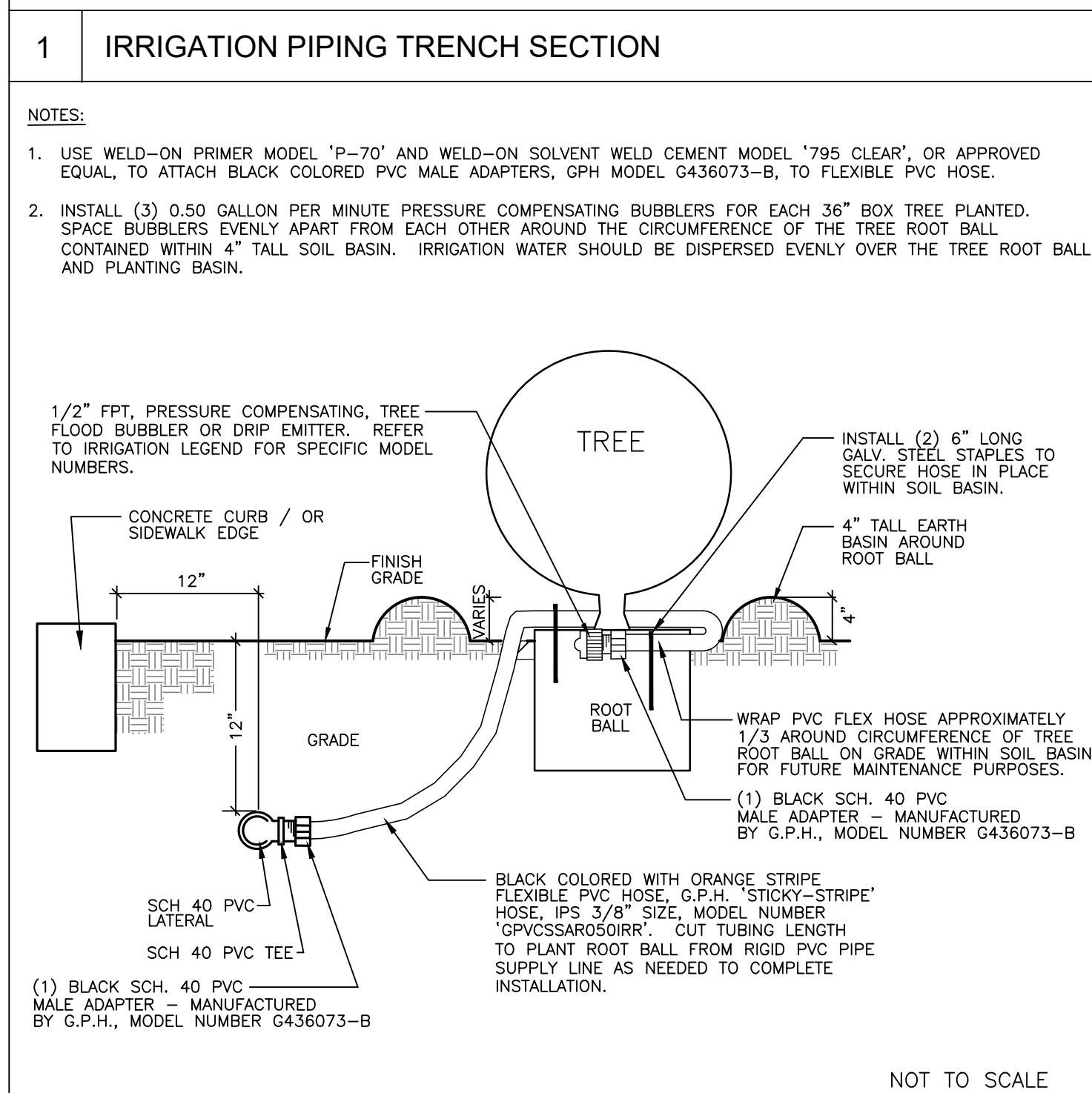
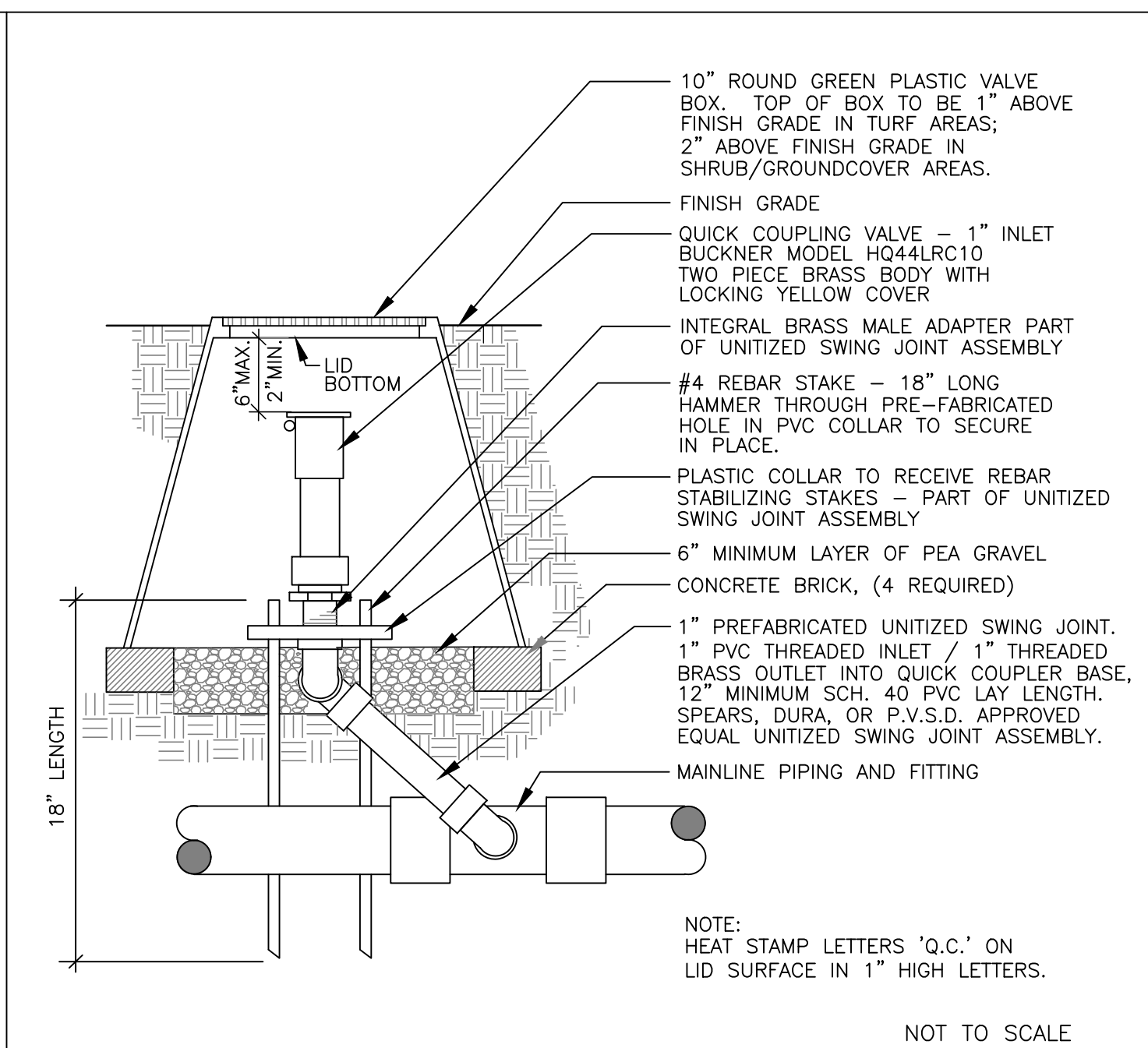
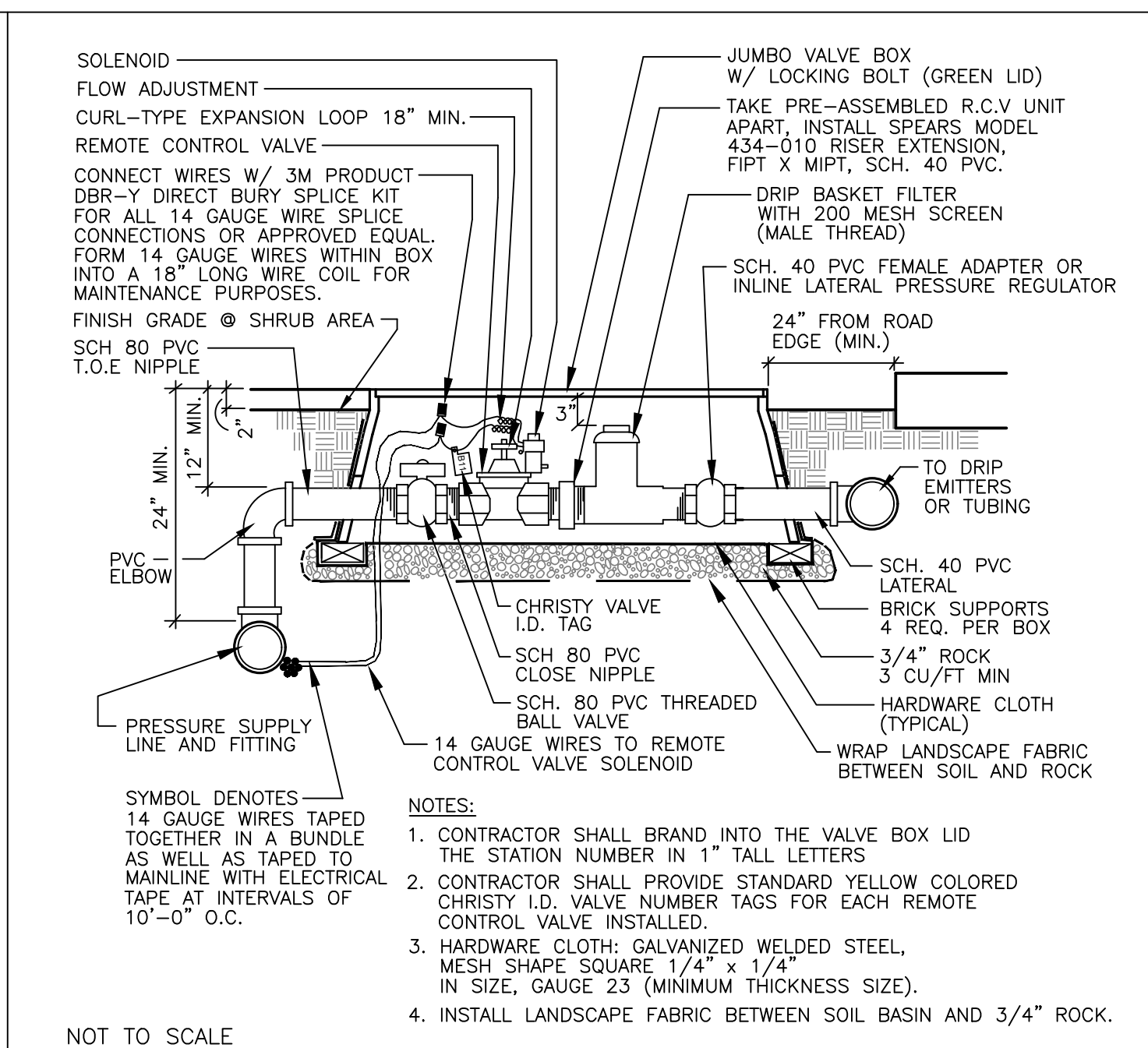
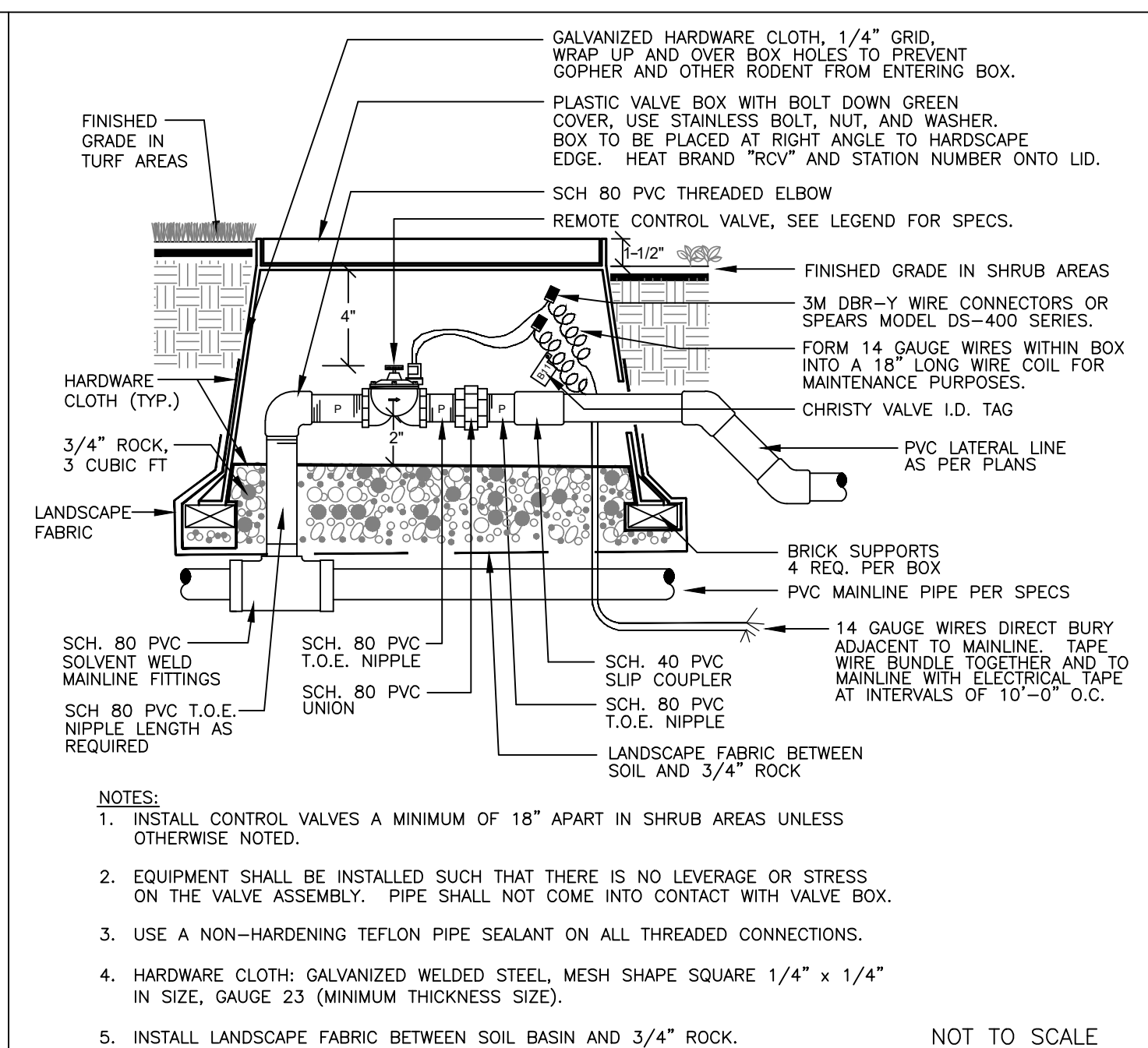
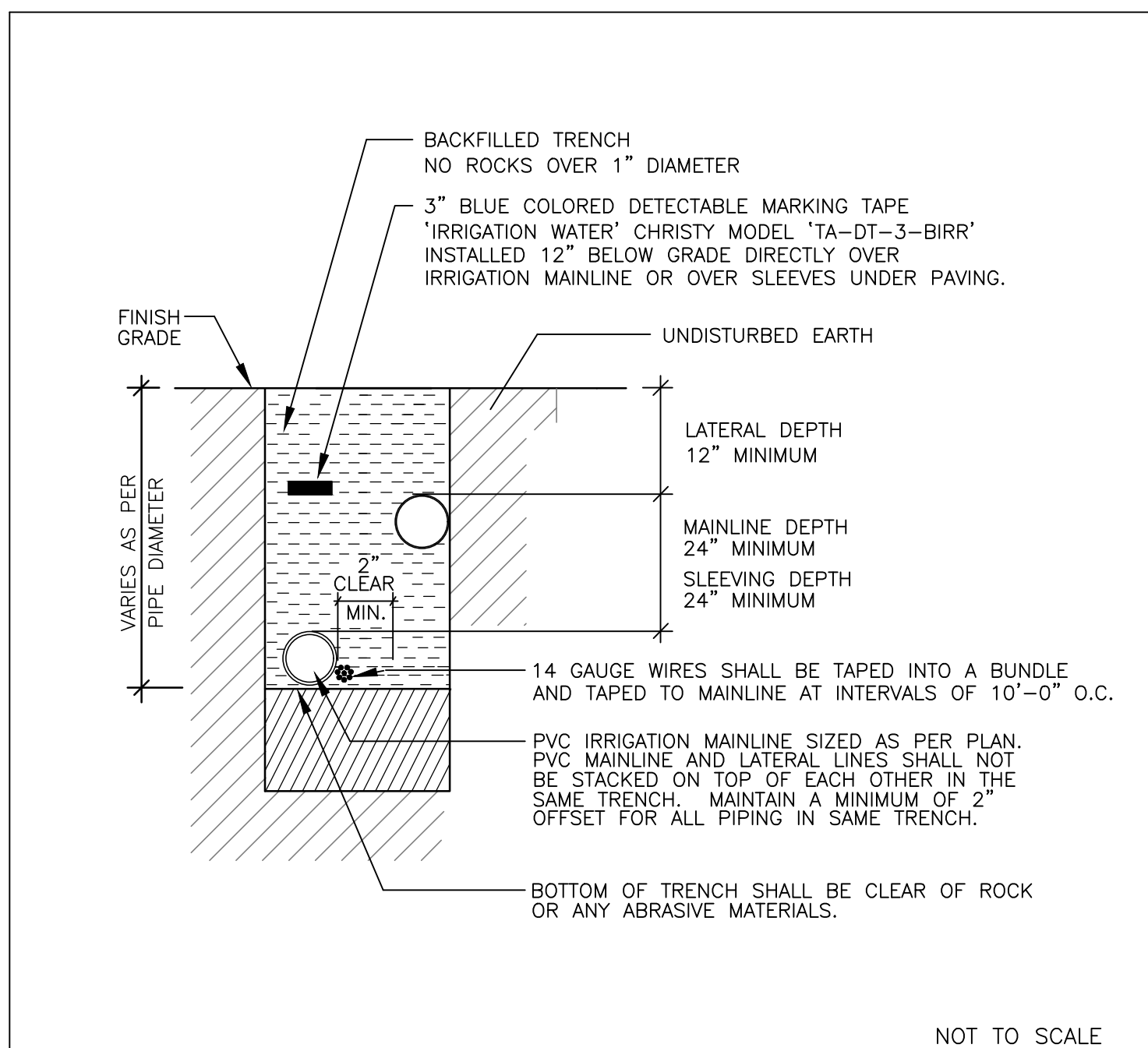


CLIENT
**PLEASANT VALLEY
SCHOOL DISTRICT**
600 Temple Avenue
Camarillo, CA. 93010

SHEET TITLE
PLANTING PLAN

PROJECT
**Las Posas Elementary
Central Quad
75 Calle La Guerra
Camarillo, CA 93010**

DRAWN:	J.B.
CHECKED:	J.B.
PRINTED FOR:	
SUBMITTAL	2-4-26
BID:	2-4-26
CONSTRUCTION:	2-4-26



GEOTECHNIQUES

1645 Donlon Street, Ste. 107
Ventura, California 93003
(805) 456-9585, (805) 658-8952

April 14, 2023 (rev. January 30, 2026)

Project No. 1025.003.03

Pleasant Valley School District
600 Temple Avenue
Camarillo, California 93021

Attention: Ms. Sandra Lovaas, Measure C Bond Manager

Subject: Geotechnical Recommendations for Replacement of Asphalt Concrete and Construction of Paver Landscape Area at Las Posas Elementary School, in the Pleasant Valley School District, 75 East Calle La Guerra, Camarillo, California

Dear Ms. Lovaas:

This geotechnical letter report provides recommendations for the preparation of subgrade in replacement and new pavement or landscape paver areas and construction of structural asphalt concrete pavement sections at Las Posas Elementary School, in Camarillo, California. Additionally, recommendations for the excavation and backfilling of trenches or below-grade structures or improvements are also provided. Our understanding of the proposed projects is based on discussions with Pleasant Valley School District ("PVSD") personnel and its Consultants, site observations, and laboratory testing on subgrade soil samples collected in conjunction with recent construction activity at the campus.

PROJECT SCOPE

With the exception of minor underground utility construction, site improvements at the subject campus will consist predominantly of on-grade concrete or pavers primarily for pedestrian use and replacement asphalt concrete in the main parking lot and access/egress driveways. Minor grading will be performed as needed to improve local gradients to achieve ADA compliance or enhance positive drainage in improvement areas.

SITE CONDITIONS

Surface conditions in areas of proposed improvements at Las Posas Elementary School consist of asphalt concrete in playground areas (typically between about 3 and 5 inches in thickness, and typically underlain by between about 3½ and 5 inches of [now 'dirty'] aggregate base), concrete sidewalks, and adjacent unpaved landscape planter and grass areas.

Subgrade soil below existing asphalt-concrete/aggregate base pavement consists of fine sandy silt with clay (ML). Subgrade soils are anticipated to be very moist, especially in unpaved areas, with moisture contents several percentage points above optimum.

Note that the moisture content of near-surface subgrade materials may vary with seasonal conditions including rainfall and irrigation intensity, or from other circumstances.

SITE SUBGRADE PREPARATION RECOMMENDATIONS

Areas to receive new asphalt concrete, on-grade concrete, or footings for short site walls shall be underlain by a minimum of 12 inches of subgrade compacted to a minimum of 95 percent of the maximum dry density determined according to ASTM D1557, measured from the lowest point of the thickened edge or below the aggregate base course.

Preliminary Site Preparation

Site irrigation shall be discontinued as far in advance as practicable prior to clearing, demolition, and excavation operations. Root mass from trees and shrubs and the root mat in lawn areas should be completely removed, stripped, and wasted offsite prior to utility trench or underground structure excavation, or earthmoving operations. Contractor should rip and cross-rip subgrade soil upon removal of asphalt concrete, concrete, or root mat in landscape areas to maximize aeration potential of subgrade soils. Excavations and depressions, either existing or from removal of root-balls, below grade structures or improvements, or footings, or from rutting from demolition and construction equipment trafficking shall not be filled in or smoothed over outside the presence of the Geotechnical representative.

Contractor shall avoid over-trafficking during demolition and subsequently in terms of applied pressure to subgrade (e.g., equipment type and weight) and repeated passes over ingress/egress and hauling lanes to prevent elevating subgrade moisture conditions and rutting. Contractor shall mitigate or repair any rutting and elevated moisture conditions from demolition or earthmoving equipment.

Subgrade Preparation

Asphalt Concrete and On-Grade Concrete and Paver Areas. Subgrade for asphalt concrete or on-grade concrete shall be excavated to a level corresponding to lowest level of asphalt concrete pavement or on-grade concrete section (including base course). The excavation shall be deepened, as necessary to remove organics, topsoil, and deleterious material and extend a horizontal distance of an additional 1 foot beyond the asphalt concrete or new concrete in unimproved areas. The exposed surface shall be observed by the Geotechnical representative prior to scarification of the exposed excavation bottom. Depending on the moisture content of the soils exposed in the excavation bottom, the upper 1 foot of subgrade shall be moisture-conditioned, likely aerated, to between 0 and 2 percent above optimum moisture content and processed by reducing scarified materials to pea-size or finer consistency. Excavation bottoms in silty and clayey subgrade areas likely shall require extended aeration periods (after scarification effecting pulverization) prior to compacting. Once the targeted moisture condition is achieved, processed materials shall then be compacted to a minimum of 95 percent of the maximum dry density determined by ASTM D1557, latest edition.

Areas to Receive Fill. The upper 1 foot in areas to receive fill shall be similarly scarified and compacted, as above, prior to fill placement.

Footing Areas. Footing areas to a distance of 2 feet beyond perimeter shall be overexcavated to a depth of 1 foot below bottom of footing. The bottom of the overexcavation shall be observed by the Geotechnical representative prior to placing fill. Fill shall be reduced to pea-sized or finer consistency, moisture conditioned or aerated, as needed, and compacted to a minimum of 95 percent of the maximum dry density determined by ASTM D1557, latest edition.

Alternatives to Subgrade Aeration and Subgrade Stabilization

An alternative to aeration consists of the treatment of onsite wet clayey materials with cement to reduce elevated in-place moisture content and to effect "bridging" over potentially yielding, unstable underlying subgrade materials. For silty and clayey subgrade treatment, 2 to 3 percent "quicklime" or 3 to 4 percent cement (by weight), shall be thoroughly mixed into the upper 1 foot of the excavation bottom in accordance with Sections 301-3.2.5 of the "Greenbook." The soil-cement mixture shall be moisture-conditioned and compacted to a minimum of 95 percent of the maximum dry density within 90 minutes of adding moisture to cement-treated soil and according to Section 301-3.2.7. The compacted soil-cement mixture shall be cured according to Section 301-3.2.10. At least 2 days of curing time shall be allowed prior to placement of general, select, or treated fill materials. This cement content is appropriate for low-contact pressure, lightweight equipment operation; heavier equipment and rubber tired equipment imposing higher contact pressures shall require higher cement concentrations—approaching 10 percent by weight (for a pavement recycler, for example)—and/or thicker treated zones in order to support heavier equipment loads during construction.

An alternative to cement treatment of subgrade consists of removal and replacement of the upper 1 foot of subgrade with aggregate base over Mirafi 600X, placed in accordance with the manufacturer's instructions, with the full thickness of aggregate base placed before trafficking with lightweight spreading and compacting equipment so that "bridging" is achieved and maintained over underlying very moist to saturated soil.

Cement-treatment and replacement with aggregate base alternatives both require that the Contractor employ appropriate minimal equipment loading (i.e., lightweight equipment and appropriate for materials affected) and trafficking reduction measures to maintain integrity of the compacted subgrade and overlying base courses through completion of concrete placement.

Contractor Awareness and Operations Considerations

The likelihood of encountering very moist subgrade soils should be factored into all aspects of demolition and construction to avoid exacerbating subgrade moisture conditions and inducing 'pumping' of subgrade materials.

Equipment loads during demolition and subgrade preparation in pavement and concrete improvement areas shall be minimized, as needed, to avoid increasing moisture content of exposed or underlying subgrade materials and in excavations and subsequently placed fill materials during fill placement and compaction. Examples of such excavating, spreading, processing and compacting equipment include low ground pressure track dozers or, to a greater extent, excavators or backhoes staged outside the excavation. Similar low or no-load means of compacting fill shall be used, as needed, including non-tired sheepfoot compactors for fine-grained subgrade materials. Care shall be exercised to avoid repeated passes over ingress or egress areas, and to avoid overworking or overloading any area such that pumping conditions and elevated moisture contents and/or rutting are induced by demolition and/or construction operations.

Aeration of subgrade soils should be initiated at earliest well-forecasted and practicable opportunity along with subsequent episodes of turning and/or cross ripping to maximize exposure to drying effects.

Lightweight equipment shall be used for placing and compacting subsequent lifts and courses, as needed, until "bridging" over potentially unstable pumping subgrade soil is accomplished and risk of aggravating moisture conditions with other equipment is low (i.e., the "bridging" effect is not destroyed by subsequent heavy or repeated loadings).

Contractor shall proof-roll both compacted subgrade and aggregate base course with fully-loaded water truck with no deflections in presence of geotechnical representative prior to placing base and asphalt concrete, respectively.

Fill Placement and Compaction

Onsite soils are anticipated to be used as general fill once cleared of organic material, demolition or other debris, and any oversized rock. Earth materials placed as fill or within the upper 12 inches of subgrade in asphalt concrete and on-grade concrete areas shall consist of onsite excavated general fill or imported non-expansive materials with an Expansion Index less than 40. Unless noted otherwise herein, the upper 1 foot of subgrade materials shall be compacted to a minimum of 95 percent of the maximum dry density determined from ASTM D1557.

Subgrade and onsite soils used as fill and imported fill materials shall be placed and compacted at a moisture content of between 0 and 2 percent over optimum moisture content. Each layer shall be spread evenly in loose lifts no thicker than 8 inches and shall be thoroughly blade-mixed during the spreading to reduce soil consistency to pea-size or finer and to provide relative uniformity of material within each layer. Fill and backfill materials may need to be placed in thinner lifts to achieve the recommended compaction with the equipment being used. Soft or yielding materials shall be removed and be replaced with properly compacted fill material, prior to placing the next layer.

Rock, gravel and other oversized material greater than 3 inches in diameter, shall be removed from the subgrade and fill material being placed. Rock less than 3 inches in diameter shall not be nested and voids caused by inclusion of rock in the fill shall be filled with sand or other approved material. All roots larger than ½-inch diameter shall be removed and discarded.

All subgrade and fill materials, including scarified materials, shall be thoroughly processed to pea-sized or finer consistency prior to aeration and applying compactive effort. Blading or turning wet soils shall be necessary to effect uniform aeration throughout the targeted layer of soil. When the moisture content of the fill material is below that sufficient to achieve the recommended compaction, water shall be added to the fill during processing. While water is being added, the soil shall be bladed and mixed to provide relatively uniform moisture content throughout the material. .

Surfaces shall be finished to uniform grades and slopes in accordance with contract documents and in such a manner to drain properly, convey runoff to existing and new drainage improvements, and be free from depressions that may cause areas of standing water or concentrates runoff on finished surface.

FILL MATERIALS

Fill shall be free of organics, oversize material (e.g., greater than 2 inches in diameter), trash and debris, and other deleterious material. The expansion index of imported materials or onsite materials used as general fill shall be tested, as necessary, during earthmoving

operations to verify that the expansion index of the material is suitable for its use as general or select fill.

Onsite Soils. Onsite soils are generally anticipated to consist predominantly of fine sand with silt and occasional clay that meets the requirements for general fill.

General Fill. General fill materials shall have an expansion index less than or equal to 40. If necessary, general fill may be blended with sand or dry cement just prior to compaction to reduce the expansion index.

There is a potential that silty and clayey onsite general fill materials, where encountered, could be sensitive to changes in moisture content. Control of moisture content, compaction layer thickness, and efficiency and appropriateness of equipment to soil type will likely be necessary to achieve and maintain the recommended compaction.

Imported Fill. Imported fill to be used as general fill shall meet the requirements of general fill material and shall be non-expansive. Imported fill materials shall be observed, tested as necessary, and accepted by Geotechniques prior to being brought to the site.

Aggregate Base. Aggregate base materials shall consist of imported material conforming to Caltrans Standard Specifications for Class 2 aggregate base, Section 26-1.02B [Caltrans, 2024] or Section 200-2.4 of the "Greenbook" (Public Works Standards, Inc., latest edition) for Crushed Miscellaneous Base (CMB).

The aggregate base course beneath the concrete section shall be moisture conditioned to optimum moisture content before placing and spreading and shall be compacted to a minimum of 95 percent of the maximum dry density. Aggregate base materials shall be laterally confined during compaction to achieve the minimum compaction requirements adjacent to the thickened concrete edge.

Aggregate base materials used beneath on-grade concrete and as bedding or backfill in utility trenches or excavations *in areas other than previously or currently paved in asphalt concrete* shall not contain recycled asphalt.

Bedding Sand in Utility Trenches. Sand used as bedding and pipe zone sand in utility trenches shall conform to Caltrans Standard Specifications for sand bedding, Section 19-3.02F(2) (2024) and have a minimum Sand Equivalent (SE) of 30. The sand shall have a gradation that allows the material to maintain a compacted surface condition during construction operations until concrete placement or until pipe and/or subsequent lift placement (i.e., as bedding or pipe zone sand in utility trench).

ASPHALT CONCRETE AND ON-GRADE CONCRETE SECTION THICKNESS

Subgrade for asphalt concrete and on-grade concrete to receive rare fire truck traffic should be prepared as recommended previously (see "**SITE SUBGRADE PREPARATION RECOMMENDATIONS**"). Subgrade and aggregate base courses shall be firm and unyielding and proof-rolled with a full water truck or equivalent in the presence of the Geotechnical representative prior to placement of the successive structural section course (i.e., aggregate base or asphalt concrete or concrete).

Surfaces shall be finished to uniform grades and slopes in accordance with contract documents and in such a manner to drain properly, convey runoff to existing and new drainage

improvements, and be free from depressions that may cause areas of standing water or concentrates runoff on finished surface.

Asphalt Concrete Pavement. Asphalt concrete pavement sections for replacement and for areas to receive potential fire truck/bus access or only auto access (such as parking stalls between planter islands, for example), at a minimum, shall consist of the following:

Pavement Area	Asphalt Concrete Thickness (inches)	Aggregate Base Thickness (inches)
Ingress/Egress Truck/Bus Lanes	4	8
Auto Only Areas	3	6

Aggregate base should be compacted to a minimum of 95 percent of the maximum dry density. The base course should be firm and unyielding when proof-rolled with a full water truck in the presence of the Geotechnical representative prior to asphalt concrete laydown.

Asphalt concrete using coarse aggregate (such as ¾-inch) with low loss from abrasion is preferred over coarse C1 in the mix design for planned and future potential drive lanes to receive bus/truck traffic. Geotextile such as Mirafi 800x is recommended to be placed in accordance with manufacturer's instructions immediately below the aggregate base course. In areas to receive at least 8 inches of base. Asphalt concrete should be compacted to a minimum of 95 percent of the maximum density.

ON-GRADE CONCRETE AND CONCRETE PAVEMENTS

On-grade concrete section thickness for exclusively pedestrian use such as sidewalks and curbs should consist, at a minimum, of 4 inches of concrete over 4 inches of aggregate base compacted to a minimum of 95 percent of the maximum dry density.

Concrete Pavement Structural Sections. On-grade concrete to receive vehicular traffic, including pavement that may be used for fire truck access, should consist of a minimum of 6 inches of concrete over a minimum of 6 inches of aggregate base compacted to 95 percent of the maximum dry density. (Note that concrete to receive fork-lift traffic and routine truck traffic for deliveries or in trash dumpster areas should be at least 7 inches thick, depending on traffic index [TI].) Concrete should have a minimum 28-day compressive strength of 3,500 psi, a minimum Modulus of Rupture of 530 psi, and should be reinforced with No. 4 bars at 18 inches each way. Reinforcement should be supported at mid-slab at time of concrete pour. (Note that this structural section is not intended for exclusively pedestrian use.)

UTILITY TRENCHES AND EXCAVATION

Utility trenches shall be braced or sloped in accordance with the requirements of (Cal) OSHA. Utility trench backfill shall be governed by the provisions of this report relating to minimum compaction recommendations.

Prior to excavation, the grass and root mat shall be stripped and wasted (or set aside for reuse at surface upon completion of backfilling trench) along the trench alignment and in excavation stockpile areas.

Excavations and trenches shall be sufficiently wide to accommodate equipment size needed for proper compaction of bedding, pipe zone and backfill materials. Trench and excavation bottoms shall be excavated to a firm uniform bottom free of loose, disturbed material and observed by the Geotechnical representative prior to placement of bedding. Aggregate base materials may be used as bedding, as required, to mitigate soft, yielding excavation bottoms, where encountered.

Trench backfill shall be moisture conditioned between 0 and 2 percent over optimum moisture content prior to placing in trench. Backfill shall be compacted to a minimum of 90 percent relative compaction as determined from ASTM D1557, and 95 percent within the upper 1 foot of subgrade in pavement or on-grade concrete areas, or within a 1h:1v influence zone of footings¹.

Rock larger than 3 inches in maximum dimension shall be excluded from backfill. Jetting of trench backfill materials shall not be permitted.

Trench backfill materials shall consist of bedding and pipe zone sand placed a minimum thickness of 4 inches below the pipe invert and to a height of 12 inches above the top of the pipe. Bedding and pipe zone sand shall consist of fine to medium or coarse sand with a minimum Sand Equivalent (SE) of 30. General fill or pipe zone sand shall be placed as backfill above the pipe zone in 8-inch loose lifts and compacted to the minimum relative compaction summarized above. General backfill materials shall meet the preceding recommendations of this report, "Fill Placement and Compaction" and "Fill Materials."

CLOSURE

The recommendations in this letter are specific to the scope of the proposed on-grade concrete, replacement asphalt concrete, underground utility and site improvements summarized herein. The presence of hazardous and/or toxic materials is not within the scope of services provided for this study.

We appreciate the opportunity to be of service to Pleasant Valley School District. Please call if you have any questions concerning this letter report.

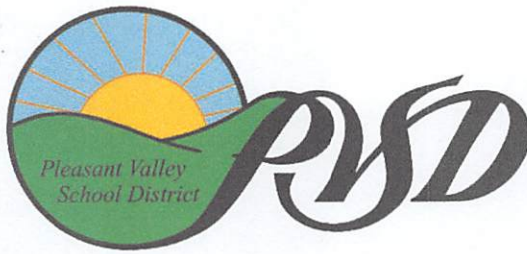
Sincerely,

Geotechniques



Carole Wockner, P.E.
Principal Engineer
R.C. E. No. 74407, exp 09/30/27

¹ Where this is not feasible because of access constraints or for expediency, a 1½-sack cement and sand slurry may be used.



SPECIFICATIONS
FOR THE
CENTRAL QUAD PROJECT

AT
LAS POSAS ELEMENTARY SCHOOL
75 CALLE LA GUERRA
CAMARILLO, CALIFORNIA 93010

FOR:
PLEASANT VALLEY SCHOOL DISTRICT
600 TEMPLE AVENUE
CAMARILO, CALIFORNIA 93010

Bid FB-26-05, Central Quad Remodel, Las Posas Elementary School

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Section 32 13 13 Concrete Work

Section 32 14 13 Concrete Pavers

Section 32 16 00 Curbs, Gutters, Sidewalks

Section 32 18 13 Synthetic Turf Installation

Section 32 84 23 Irrigation System

Section 32 93 43 Tree Planting

Section 32 94 60 Landscape Maintenance

Division 33 - Utilities

Section 33 40 00 Storm Drain Utilities

SECTION 01 10 20 FENCING AND PROTECTION

PART 1 GENERAL

1.01 SECTION INCLUDES

This section includes requirements for temporary fencing and protection of the work area.

1.02 SUBMITTALS

Submit for approval, all catalog cuts and/or specification sheet for all fencing products.

1.03 QUALITY ASSURANCE

Fencing shall be installed by a qualified fence company with experience in the installation of temporary fencing.

PART 2 PRODUCTS

2.01 TEMPORARY FENCING

Temporary fencing shall be 6 feet high chain link fence fabric attached to post and frames in a secure manner. Barb wire and/or razor wire is not allowed. Fencing shall be kept in place during the construction period and maintenance period. Fencing shall be removed only when written authorization is provided by the District.

PART 3 EXECUTION

3.01 FENCE LAYOUT

Contractor shall submit to the District for approval a schematic fence layout showing the location of fence panels and method of attachment of panels and post. This plan must be approved by the District prior to start of the work.

3.02 FENCE INSTALLATION

- A. Install fencing and post so that no damage occurs to the existing underground conduits or paving. Immediately repair all damage to the existing conditions that may occur as a result of the fence installation.
- B. If fencing panels have post with a horizontal support frame, make sure they are visually apparent to prevent any trip hazard.

3.03 FENCE REPAIR

Immediately repair any damage to the fencing that may occur.

END OF SECTION 01 10 20

SECTION 02 41 10 MISCELLANEOUS REMOVALS

PART 1 GENERAL

1.01 SECTION INCLUDES

This section includes specifications for the removal of the existing concrete paving, asphalt paving, landscaping, and miscellaneous items.

1.02 REFERENCE STANDARDS

The "Greenbook" Standards and Specifications for Public Works Construction as referenced in the Specifications.

1.03 IMPORT SOIL

The source of any required Imported soil shall be tested and approved by the District prior to any delivery.

1.04 DISPOSAL OF MATERIALS

Remove items such as landscape materials, concrete paving, asphalt paving, and all other miscellaneous items scheduled to be removed shall be properly disposed of as they accumulate. Do not store or permit debris to accumulate on the site.

PART 2 PRODUCTS

(Not Used)

PART 3 EXECUTION

3.01 INSPECTION

- A. Prior to starting, inspect the site with the District Inspector to verify all removals required to complete the work.
- B. Examine surfaces for conditions that will adversely affect execution, permanence, and quality of work of this Section.
- C. Do not proceed with work until unsatisfactory conditions have been corrected.
- D. Locate existing active utility lines and provide for their protection.

3.02 CLARIFICATION

Drawings do not indicate all objects existing on site. Before commencing work, verify with the District any existing items that may affect the work.

3.03 PROTECTION OF UTILITIES

- A. Preserve and maintain, in working condition, all active utilities traversing the site. Re-route or remove and cap those which interfere with work of this Project. Coordinate extent of this work with the District.
- B. Expeditiously repair damaged utilities at no cost to the District.

3.04 PROTECTION OF EXISTING PLANTS

Protect existing trees, not otherwise indicated to be removed, against unnecessary cutting, or breaking, skinning, and bruising of bark. Avoid smothering of trees with stockpile building materials or excavated materials within drip line.

3.05 DISPOSAL

- A. All debris resulting from demolition and removals shall become the property of the Contractor to dispose of or salvage. Debris shall not be allowed to accumulate on site unless the District specifies a site location and security requirement. The Contractor shall be responsible for its prompt removal from the site and disposal in a legal manner.
- B. Prevent debris from migrating outside of construction areas.
- C. Maintain safe pedestrian access, at all times, on all walkways adjacent to the fence removals.

END OF SECTION 02 41 10

**SECTION 04 22 20
MASONRY PLANTER**

PART 1 GENERAL

1.01 SECTION INCLUDES

This section includes general requirements for the masonry planter.

1.02 SUBMITTALS

- A. Submit Manufacturer's cut sheets and specifications for all products required to complete the work.
- B. Submit three (3) each block and cap samples for approval.

1.03 DELIVERY AND STORAGE

Store all materials in a site location that has been approved by the District. Keep all materials clean, safe and protect from any damage.

1.04 QUALITY ASSURANCE

Masonry work shall be constructed by a Licensed Masonry Contractor with a valid California C-29 License.

1.05 INSPECTIONS

Each phase of the work must be inspected and approved by the District Inspector prior to the start of the next phase.

PART 2 PRODUCTS

2.01 CONCRETE BLOCKS

Masonry units shall be Angelus Block 8816, Fawn color.

2.02 CAP

Angelus block, 1048 mushroom cap, Fawn color to match block.

2.03 REINFORCING STEEL

Reinforcing steel for masonry work shall be deformed and shall conform to ASTM A-615, Grade 60, with #3 ties, 40 grade, and free of loose rust and materials that reduce bond. All reinforcing steel shall be positioned as indicated on Drawings.

2.04 MORTAR

- A. Mortar proportions shall conform to CBC Table 2103A.2, Type "S."
- B. Mortar color shall be type S, EZYMIX- Medium Tan.

2.05 GROUT

Grout shall conform to CBC Table 2103A.3 and ASTM C-476, Table 1, and shall have a minimum compressive strength at 28 days of 2,000 PSI.

2.06 WATERPROOFING

Waterproofing shall be an acrylic water base coating which forms an elastomeric waterproofing membrane that bonds to the masonry surface such as Multicoat BG 2000 or equal.

PART 3 EXECUTION

3.01 MASONRY

- A. Masonry work shall conform to Chapter 21A of the California Building Code.
- B. Cut units with masonry saws.
- C. Reserve unobstructed vertical continuity of cells.
- D. Grout all cells solid.
- E. Fractional parts of masonry units are prohibited where whole units can be used.

3.02 REINFORCING STEEL

Lap splices of reinforcing steel in masonry shall be 48 bar diameters with a minimum of 24 inches, whichever is greater.

3.03 GROUT

Grout shall be properly consolidated by "puddling" or mechanical vibrators. All reinforcing steel and embedded items shall be properly secured in position prior to grouting. Grout all cells. Five (5) feet is maximum grout lift.

3.04 DOWELS

Provide vertical dowels with standard hooks at bottom for all vertical reinforcing, unless otherwise noted on Drawings.

3.05 HORIZONTAL STEEL

Horizontal steel shall be in lintel or channel blocks.

3.06 JOINTS

Joints shall be tooled concave.

3.07 WATERPROOFING

Masonry surface must be dry and clean and free from any dirt, oil, or other foreign materials that may interfere with proper bonding. Apply waterproof coating to the inside masonry surface and the top of the concrete footing. Apply as per the Manufacturer's specifications.

3.08 SOIL BACKFILL

Backfill planter with clean topsoil.

3.09 CLEAN-UP

- A. At completion of the work in this Section, make a thorough inspection of installed masonry and verify that units have been installed in accordance with the provisions of this Section.
- B. Make necessary adjustments.
- C. Clean up and disposal of all Work-related materials shall be the responsibility of the Contractor.
- D. Restore adjacent areas to original condition and remove excess dirt and any unused materials from the site.

END OF SECTION 04 22 20

SECTION 31 10 00

SITE CLEARING

PART 1 – GENERAL

1.01 SUMMARY

- A. This Section requires the selective removal and subsequent off-site disposal of the following:
 - 1. Removal and disposal of all abandoned pipe and conduit except for pipe or conduit indicated specifically on plans for abandonment in place.
 - 2. Removal and offsite disposal of grass and root mat.
 - 3. Demolition of asphalt concrete and pavements as indicated on the drawings to straight, neatly saw cut surface.
 - 4. Trees as indicated on plans, completed including roots.
 - 5. All other removals which may or may not been shown on plans as required for the project construction.

1.02 SITE CONDITIONS

- A. **Protections:** Contractor shall provide temporary barricades and other forms of protection to protect general public from injury due to demolition work.
- B. **Traffic:** Conduct demolition operations and debris removal to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities. Access must be coordinated with District's Representative.
- C. **Utility Services:** Maintain all existing utilities to remain in service and protect them against damage during demolition operations.
- D. **Environmental Controls:** Use water sprinkling, temporary enclosures, and other methods to limit dust and dirt migration. Comply with governing regulations and County Air Pollution Control District pertaining to environmental protection. Do not use water when it may create hazardous or objectionable conditions such as flooding and pollution.

1.03 REFERENCES

- A. Standard Specifications for Public Works Construction (Green Book), latest edition.

PART 2 – PRODUCTS (NOT APPLICABLE)

PART 3 – EXECUTION

3.01 DEMOLITION

- A. General: Perform demolition work in a systematic manner. Use such methods as required to complete work indicated on drawings in accordance with governing regulations.
- B. Provide services for effective air and water pollution controls as required by County Air Pollution Control District regulations.
- C. Prior to commencing grading operations, soil containing debris, organics, pavement, or other unsuitable materials, shall be stripped from the foundation and pavement areas. Demolition areas shall be cleared of old foundations, slabs, abandoned utilities, tree roots, and soil disturbed during the demolition process. Depressions or disturbed areas left from the removal of such material shall be replaced with compacted fill under observation by the Geotechnical representative.
- D. Concrete sidewalks will be removed to the nearest construction or expansion joint to the limits of removal as shown on the plans. Exact locations will be determined in the field by the District's Representative.

3.02 DISPOSAL OF DEMOLISHED MATERIALS

- A. Remove from Project site debris, rubbish, and other materials resulting from demolition operations. Transport and legally dispose of off site.
- B. If hazardous materials are encountered during demolition operations, contact District's Representative.
- C. Burning of removed materials is not permitted on project site.

3.03 HAZARDOUS MATERIALS

- A. Except as otherwise specified, in the event Contractor encounters on the Project site material reasonably believed to be asbestos, polychlorinated biphenyl (PCB), or other hazardous materials which have not been rendered harmless, Contractor shall immediately stop Work in the area affected and report the condition to the District's Representative in writing. The Work in the affected area shall not thereafter be resumed except by written agreement of the Contractor if in fact the material is asbestos, PCB, or other hazardous materials and has not been rendered harmless. The Work in the affected area shall be resumed in the absence of asbestos, PCB, or other hazardous materials, or when such materials have been rendered harmless.

- B. Construction involving asbestos cement (transite) pipe shall be performed by qualified personnel in accordance with the standards and specifications set forth by American Water Works Association (AWWA), the Occupational Safety and Health Act (OSHA) and the Environmental Protection Agency (EPA), as well as location jurisdictional codes.

3.04 CLEANUP AND REPAIR

- A. General: Upon completion of demolition work, remove tools, equipment and demolished materials from site.
 - 1. Repair demolition performed in excess of that required. Return elements of construction and surfaces to existing condition prior to start of operations. Repair adjacent construction or surfaces soiled or damaged by demolition work.

END OF SECTION 31 10 00

**SECTION 31 20 00
EARTHWORK**

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes: Excavation, Compaction and Fill.

1.02 REFERENCE

- A. Standard Specifications for Public Works Construction (SSPWC), latest edition.
- B. Geotechnical Recommendations for Replacement of Asphalt Concrete and Construction of Paver Landscape Area at Las Posas Elementary School, in the Pleasant Valley School District, 75 East Calle La Guerra, Camarillo, California, dated April 14, 2023 (rev. January 30, 2026), Project No. 1025.003.03, prepared by Geotechniques, and shall be superseded by the most current version.

1.03 QUALITY ASSURANCE

- A. Codes and Standards: Perform earthwork in compliance with applicable requirements of governing authorities having jurisdiction.
1. Standard Specifications for Public Works Construction (SSPWC), latest edition.
 2. CAL/OSHA Construction Safety Order Requirements.
- B. Soil Testing Service
1. The District's Representative will engage a soil testing service to include testing soil materials proposed for use in the Work and for quality control testing during grading operations.
 2. Samples of materials shall be furnished to the testing service by the Contractor at least one week before their anticipated use.
 3. Work for this Section includes smoothing out areas for density tests and otherwise facilitate testing work, as directed.
 4. Shoring Systems: Pre-engineered systems, clearly labeled as such, may be used. Refer to the Geotechnical Recommendations for further requirements.

1.04 PROJECT CONDITIONS

- A. The Contractor shall visit the site and familiarize with existing site conditions.

- B. Additional test borings and other exploratory operations may be made by the Contractor at no cost or liability to the District.
- C. Existing Utilities:
 - 1. Where uncharted or incorrectly charted piping or other utilities are encountered during excavation, consult District's Representative immediately for directions. Cooperate with the District's Representative in keeping respective services and facilities in operation. Repair damaged utilities to the satisfaction of the District's Representative at no cost to the District. Disturbed trench sections shall be replaced in kind.
 - 2. Contractor to coordinate with the District's Representative to obtain all required permits and schedule inspections.
- D. Protection of Subgrade: Do not allow equipment to pump, rut, or disturb subgrade, stripped areas, or other areas prepared for Project.
- E. Contractor shall implement measures to prevent soil erosion, and where possible, sediment shall be retained onsite.
- F. Contractor shall implement all necessary recommendations contained in the Geotechnical Recommendations.

PART 2 PRODUCTS (Not Applicable)

PART 3 EXECUTION

3.01 SITE PREPARATION

- A. General:
 - 1. Remove vegetation, improvements, or obstructions interfering with installation of new construction. Transport and legally dispose of off site. Removal includes stumps and roots. Contractor shall utilize the best construction method to minimize the erosive effect from the removal of site vegetation.
 - 2. Excavation bottoms and depressions resulting from demolition or removal of below-grade structures or root balls shall be observed by the Geotechnical representative prior to filling.
 - 3. Carefully and cleanly cut roots and branches of trees indicated to be left standing, where such roots and branches obstruct new construction. Paint cuts over one inch in size with tree pruning compound. Care shall be taken so as not to scar any area of the tree's bark.
 - 4. In order to protect from sediment transfer or contamination from urban run-off during construction, the following grading and erosion control practices shall be followed:

- a. If grading occurs during the rainy season (November through April), sediment traps, barriers, covers or other methods shall be used to reduce erosion and sedimentation.
- b. Excavated materials shall not be deposited or stored where the material can be washed away by high water or storm run-off.
- c. Grading operations on site shall be conducted so as to prevent damaging effects of sediment production and dust on the site and on adjoining properties.
- d. When vegetation has to be removed on site, the methods shall be one that minimizes the erosive effects from the removal.
- e. Exposure of soil to erosion by removing vegetation shall be limited to the area required for construction operations. The construction area shall be fenced to define the project.
- f. Temporary mulching, seeding, or other suitable stabilization shall be used to protect areas during construction or other land disturbance activities on site.
- g. Topsoil, removed from the surface in preparation for grading and construction activities on Campus is to be stored on or near the site and protected from erosion while grading operations are underway, provided that such storage may not be located where it would cause suffocation of root systems of trees to be preserved. After completion of such grading, topsoil is to be restored to exposed cut and fill embankments of building pads so as to provide a suitable base of seeding and planting.
- h. Sediment basins, sediment traps, or similar control measures shall be installed before extensive clearing and grading operations begin for site development.
- i. Water or dust palliatives shall be applied to exposed earth services as necessary to control dust emissions.
- j. Revegetation or stabilization of exposed earth surfaces shall take place as soon as possible.

B. Removals

- 1. Clear the site of trees, shrubs, and other vegetation, which is indicated to be removed.
- 2. Completely remove stumps, roots, and other debris to avoid problems with future utilities.
- 3. Use only hand methods for grubbing inside the drip line of trees indicated to be left standing.

4. Existing fills, soil containing debris, organics, pavement, or other unsuitable materials shall be excavated and removed prior to commencing grading operations. Demolition areas shall be cleared of old foundations, slabs, abandoned utilities, landscaping, and soils disturbed during the demolition process. Depressions or disturbed areas left from the removal of such material shall be replaced with compacted fill after observation by the Geotechnical representative.
5. The limits and depths for removal of existing materials for subgrade preparation shall be consistent with the Geotechnical recommendations. Removals shall be wide enough to accommodate the compaction equipment being used.
6. Revegetation or stabilization of exposed earth surface shall take place as soon as possible.

C. Removal of Improvements

1. Remove above-grade and below-grade improvements necessary to permit construction and other work as indicated.
2. Remove from site and legally dispose of off-site, existing fill materials, soil debris, or other unsuitable materials prior to commencing grading operations.

3.02 EXCAVATION

- A. Excavation for Pavements: Cut surface under pavements to comply with cross-sections, elevations and grades as shown.
- B. Excavation for Planting Areas: Conform to cross-sections, elevations and dimensions shown, within a tolerance of plus or minus 0.10 foot.

3.03 COMPACTION

- A. General: Control soil compaction during construction providing minimum percentage of density specified for each area, under the provisions of the Geotechnical Recommendations.
- B. Percentage of Maximum Density Requirements: Compact soil to not less than the percentages of maximum dry density specified in the Geotechnical Recommendations and in accordance with ASTM D1557-91 method of compaction.
- C. Moisture Control:
 1. When moisture content of exposed scarified soil and/or full material is below that sufficient to achieve recommended compaction, water shall be added to the soil and/or fill. While water is being added, soil shall be bladed and mixed to provide relatively uniform moisture content throughout the material.

2. When moisture content of exposed scarified soil and/or fill material is excessive, material shall be aerated by blading or other methods. Fill placed in pavement areas shall be compacted at near optimum moisture content. Jetting is not permitted for compaction.

3.04 FILL

- A. In all excavations, use satisfactory excavated or borrow material sampled and tested by the District's Testing Laboratory. Fill selection shall be per Geotechnical Recommendations.
- B. Fill excavations as promptly as Work permits, but not until completion of the following:
 1. Observation of excavation bottom by Geotechnical Representative.
 2. Acceptance by District's Representative of construction below finish grade including, where applicable, waterproofing, damp-proofing, and drainage pipe.
 3. Examination, testing, approval and recording locations of underground utilities.
 4. Removal of concrete formwork.
 5. Removal of shoring and bracing and backfilling of voids with satisfactory materials.
 6. Removal of trash and debris.
 7. Permanent or temporary horizontal bracing is in place on horizontally supported walls.
 8. Protect excavations by methods required to prevent cave-in or loose soil from falling into excavation.
 9. Protect improvements and structures from lateral and vertical movements adjacent to excavations.
- C. Continual dust control, as required by the District, and in accordance with County Air Pollution Control District's Standards shall be required for the project construction.

3.05 GRADING

- A. General: To provide support for slabs and walls, all existing fill and unsuitable natural soils shall be excavated and replaced as properly compacted fill.
- B. Compaction: After grading, compact subgrade surfaces to the depth and percent relative compaction for each area classification.

- C. Fill placement and grading operations shall be performed only under the observation of the District's Testing Laboratory.
- D. The exterior grades around building areas shall be sloped to drain away from the buildings to prevent ponding of water adjacent to foundations.
- E. Grading operation shall be conducted so as to prevent damaging effects of sediment product and dust on the site and adjoining properties.

3.06 DISPOSAL OF EXCESS AND WASTE MATERIALS

Transport excess excavated material and legally dispose of offsite.

3.07 FIELD QUALITY CONTROL

- A. Quality Control Testing During Construction: District 's Testing Laboratory will observe, test and approve subgrades and fill layers before further construction Work can be performed. The District's Representative will determine the frequency of tests. Subgrade: Allow at least one field density test of subgrade to be made for every 2000 sq. ft. of paved area, but in no case less than 3 tests.
- B. Field examination and testing will be performed by the District's Testing Laboratory. The Contractor shall cooperate with such testing and shall give the District's Representative advance notice of grading scheduling.
- C. Frequency of Tests for Trenching: As specified in Geotechnical Recommendations and as determined by the District's Representative.
- D. If in the opinion of the District's Representative, based on soil testing reports and observations, subgrades or fills which have been placed are below specified density, provide corrective work as specified at no additional expense to the District, and pay for retesting of the soil.

3.08 PROTECTION

- A. Protect newly graded areas from traffic and erosion. Keep free of trash and debris.
- B. Repair and re-establish grades in settled, eroded, and rutted areas to specified tolerances.
- C. Reconditioning Compacted Areas: Where completed compacted areas are disturbed by subsequent construction operations or adverse weather, scarify surface, reshape, compact to required density and provide other corrective work as specified, with retesting, prior to further construction.

END OF SECTION 31 20 00

**SECTION 31 23 33
TRENCHING AND BACKFILLING**

PART 1 GENERAL

1.01 SUMMARY

PART 1 - References, submittals, and existing utilities.

PART 2 - Trench backfill materials.

PART 3 - Excavating trenches, backfilling, and compacting requirements.

1.02 REFERENCES

- A. Standard Specifications for Public Works Construction (SSPWC), latest edition.
- B. Geotechnical Recommendations for Replacement of Asphalt Concrete and Construction of Paver Landscape Area at Las Posas Elementary School, in the Pleasant Valley School District, 75 East Calle La Guerra, Camarillo, California, dated April 14, 2023 (rev. January 30, 2026), Project No. 1025.003.03, prepared by Geotechniques, and shall be superseded by the most current version.

1.03 SUBMITTALS

- A. Materials source and specifications.
- B. Sand equivalent test reports per ASTM D2419.
- C. Certificates.
- D. Drawings for shoring, bracing, sloping, or other provisions for worker protection for any excavation shall conform to the requirements of the CAL/OSHA Construction Safety Orders Requirements.

1.04 EXISTING UTILITIES

- A. Drawings show existing major underground utilities from reference drawings. Prior to excavation, the Contractor shall notify the District's Representative to obtain any additional information which may be applicable to the Work.
- B. Any incident of a utility being inadvertently damaged by the Contractor shall be immediately shutoff and then be immediately repaired by the Contractor at no cost to the District.
- C. Contractor to pothole all utility connections and verify exact size, location and material prior to beginning construction and notify engineer of any discrepancies.

PART 2 MATERIALS

2.01 APPROVALS

Imported material shall be approved by the District's Representative prior to being brought to the site. Provide a sample of the material in sufficient quantity for the District's Representative's use in evaluating the material.

2.02 TRENCH BACKFILL MATERIAL

- A. Sand bedding shall have a sand equivalent (SE) of 30 or greater. The SE shall be evaluated during grading. Materials shall conform to SSPWC Section 217-1 and the specification of the Geotechnical Recommendations.
- B. Backfill material shall conform to the requirements of Section 217-2 of the SSPWC.
- C. Aggregate base course shall be per Plan.
- D. Topsoil removed from trenches shall be stockpiled at locations approved by the District's Representative.

2.03 SOURCE QUALITY CONTROL

- A. Inspection and testing shall be performed by the District's Representative.

PART 3 EXECUTION

3.01 PREPARATION

Identify required lines, levels, contours, and datum.

3.02 TRENCH EXCAVATION

- A. Strip grass and root mat and separate from stockpiled soil to be used as backfill over pipe zone sand. Spread stockpiled soils to aerate, if necessary.
- B. Trench/excavation width should be wide enough to accommodate the compaction equipment being used.
- C. All saw cutting shall be neat, straight cuts and shall conform to Section 306-3 of the SSPWC. All cuts shall be square unless otherwise specifically noted on plans.
- D. Trench excavation shall conform to Section 306-3 of the SSPWC and the following requirements:
 - 1. The bottom of the trench shall be graded and prepared to provide a firm and uniform bearing throughout the entire length of the pipe barrel. Suitable excavations shall be made to receive the bell of the pipe and the joint shall not bear upon the bottom of the trench. All adjustments to line and grade shall be made by scraping away or filling in with sand under

the body of the pipe and not by wedging or blocking.

2. If the trench is excavated below the required grade, correct any part of the trench excavated below the grade, at no additional cost to the District per the Geotechnical Recommendations. Place the backfill material over the full width of trench in compacted layers not exceeding 6 inches deep to the established grade with allowance for the pipe base. If shoring is required, the trenches shall be shored and braced in accordance with the Trench Construction Safety Orders of the Division of Industrial Safety.
3. When subgrade is encountered that in the opinion of the District's Representative is unsuitable for pipe support, the District's Representative may order the excavation to be carried to an approved depth below the bottom of the pipe and backfilled with sand, to the lines and grades shown on the drawings and specified by the District's Representative.
4. The minimum width of the trench at the top of the pipe zone shall be as necessary to install the pipe. The utility lines shall be centered in the trench. In the event of (1) actual physical interference between existing crossing subsurface utilities and the proposed utility lines and (2) vertical discrepancy in connecting proposed utility lines to existing utility system, a minimum clearance of 0.5 feet between the utility line and the crossing, interfering utility shall be provided, unless otherwise indicated on the plans.
5. Where existing utilities or tree roots are to be protected, trench excavation shall be by hand. No mechanical excavating equipment shall be used within 6 inches of any utility or root.
6. Trenching machinery may be used for excavations provided the specified trench width can be maintained.

3.03 TRENCH BACKFILL

- A. Pipe bedding and trench backfill materials: Sand bedding and backfill for utilities shall consist of material having a sand equivalent of at least 30. The backfill material shall be placed within the pipe zone that extends from the bottom of the pipe to at least 12 inches above the top of the pipe for the full width of the trench. The horizontal distance between the spring line of the pipe and the side walls of the trench shall be such that bedding material can be properly placed and compacted below the haunches of the pipe. Pipe bedding and pipe zone backfill shall be compacted to at least 95 percent relative compaction. Backfill material placement shall conform to provisions of Geotechnical Recommendations.
- B. Trench backfill placed above the pipe zone shall consist of suitable onsite or imported soil per Geotechnical Recommendations. Mechanical compaction of trench backfill shall be performed and water consolidation (jetting) methods of compaction shall not be permitted.

- C. Trench Backfilling shall conform to the requirements of Sections 306-12 of the SSPWC and Geotechnical Recommendations.
- D. During the process of laying pipe in trenches, sufficient material shall be carefully placed and hand tamped about the pipe to hold it firmly to established line and grade. Oversized material, broken rock or shale, if encountered, shall not be used for backfill.
- E. No motor driven mechanical compacting equipment shall be used over pipelines until the backfill has been compacted to 12 inches over the crown of the pipe.
- F. All backfill material shall be deposited in horizontal layers not exceeding the thickness specified in Section 306-12 of the SSPWC and not exceeding 8 inches in thickness. The distribution of materials shall be such that all material following compaction and consolidation will form a homogeneous mass free of voids, pockets, streaks or other imperfections. Backfilling shall be done with earth free from lumps, hardpan, chunks, paving material, organic matter or other deleterious substances.
- G. Jetting of bedding or backfill material to obtain specific moisture content or for compaction shall not be permitted. If encountered, existing fill in the utility excavation shall be excavated and recompactd or removed and replaced with new fill materials per requirements of Section 2.02.
- H. Compaction of all backfill material for trenches, pavements or structures, shall be per provisions of the Geotechnical Recommendations. Appropriate warning detector tape shall be placed over all utilities.
- I. Prior to final cleanup or resurfacing, the District's Representative shall take compaction tests in any backfill area and at any depth, with the Contractor providing equipment and operator to assist in such test. If any such compaction test fails, the Contractor shall correct such failure and pay for any retesting that is required. The District's Representative shall make as many tests as he feels is required to receive a satisfactory and acceptable job.

3.04 STOCKPILING

- A. Stockpiling of imported materials or excavated materials shall direct surface water away from approved stockpile site to prevent erosion.
- B. After stockpiles are removed, leave area in a clean and neat condition.

3.05 FIELD QUALITY CONTROL

Inspection and testing shall be performed by District's Representative.

END OF SECTION 31 23 33

**SECTION 32 11 23
AGGREGATE BASE COURSES**

PART 1 GENERAL

1.01 SUMMARY

Aggregate base course for pavements, gutters, and all-weather access road.

1.02 RELATED SECTIONS

- A. Section 31 20 00 Earthwork.
- B. Section 32 13 13 Concrete Work.
- C. Section 32 14 13 Concrete Pavers.
- D. Section 32 18 13 Synthetic Turf Installation

1.03 REFERENCES

- A. Standard Specifications for Public Works (SSPWC), latest edition.
- B. ASTM Standards.
- C. Geotechnical Recommendations for Replacement of Asphalt Concrete and Construction of Paver Landscape Area at Las Posas Elementary School, in the Pleasant Valley School District, 75 East Calle La Guerra, Camarillo, California, dated April 14, 2023 (rev. January 30, 2026), Project No. 1025.003.03, prepared by Geotechniques, and shall be superseded by the most current version.
- D. Caltrans Standard Specifications 2023, and shall be superseded by the most current version.

1.04 SUBMITTALS:

- A. Submit material samples and reports in accordance with requirements of the District.
- B. Submit samples in sufficient quantities for material testing.

PART 2 PRODUCTS

2.01 MATERIALS

Aggregate Base Material shall be Class 2 Aggregate Base conforming to Caltrans Standard Specifications Section 26-1.02 or Section 200-2.4 of the "Greenbook" (International Conference of Building Officials [ICBO], latest edition) for Crushed Miscellaneous Base (CMB).

PART 3 EXECUTION

3.01 EXAMINATION

Verify substrate has been inspected; gradients and elevations are correct, and dry.

3.02 AGGREGATE BASE PLACEMENT

- A. Aggregate base placement shall conform to the provisions of the SSPWC, Section 301-2.
- B. Level and contour surfaces to elevations and gradients indicated.
- C. Add water to assist compaction. If excess water is apparent, remove aggregate and aerate to reduce moisture content.
- D. Where the required aggregate base thickness is 6 inches or less, the watered base may be spread and compacted in one layer. Where the required thickness is more than 6 inches, the aggregate base material shall be spread and compacted in 2 or more layers of approximately equal thickness. The maximum compacted thickness of any one layer shall not exceed 6 inches. Aggregate base shall be compacted to a minimum of 95 percent of the maximum dry density determined by ASTM D1557, latest edition.
- E. Aggregate base course shall be dense and unyielding upon proof-rolling with full water truck.
- F. Per the geotechnical report, geotextile (Mirafi 600x) shall be placed in accordance with manufacturer's instructions immediately below the aggregate base course in areas to receive bus and truck traffic.

3.03 TOLERANCES

- A. Flatness: Maximum variation of 1/4 inch.
- B. Scheduled Compacted Thickness shall conform to the provisions of the SSPWC Section 301-2.2.

3.04 FIELD QUALITY CONTROL

- A. Inspection and testing shall be performed by the District's Testing Laboratory. Compaction testing will be performed in accordance with ASTM D1557, latest edition.
- B. If tests indicate work does not meet specified requirements, remove work, replace and retest at Contractor's expense.

END OF SECTION 32 11 23

SECTION 32 13 13 CONCRETE WORK

PART 1 GENERAL

1.01 SECTION INCLUDES

This section includes general requirements for the concrete paving and concrete curbing.

1.02 QUALITY ASSURANCE

For concrete finishing use only trained and experienced concrete finishers.

1.03 REFERENCE

The Geotechnical Report and recommendations prepared by Geotechniques dated April 14, 2023 (Revised January 30, 2026).

1.04 SUBMITTALS

- A. Mix design shall be submitted to the District Inspector for approval prior to pour. The mix design shall show the mix identification number and the applicable proportions, weights, and quantities of Portland cement, aggregate, water, and admixtures. The mix design submittal shall also include the size and source of aggregate, the type and source of Portland cement, the brand and designation of admixtures, and the type of construction for which the concrete is used.
- B. Submit manufacturer's specifications and catalog cut sheet on all specified materials required for the concrete work

PART 2 PRODUCTS

2.01 CONCRETE

- A. Concrete for paving (walks), shall be hardrock with a minimum compressive strength at 28 days of $f'c = 3,000$ PSI and conform to ASTM C-94.
- B. Concrete for curbs shall be hardrock with a minimum compressive strength at 28 days of $f'c = 3,000$ PSI and conform to ASTM C-94.
- C. Cement: ASTM C-150, Type I or II, low alkali.
- D. Aggregate: ASTM C-33, non-reactive, 1 inch maximum.
- E. Slump: Maximum slump - 4 inches.

2.02 CONCRETE FINISH

- A. Walks – finish for paving shall be medium broom.
- B. Concrete curbs – shall be medium broom finish.

2.03 REINFORCING STEEL

- A. All reinforcing bars shall be free of rust, grease, mill scale or any material which might affect its bond to concrete. All bar bends shall be made cold.
- B. Reinforcing steel for Concrete Work shall be deformed and shall conform to ASTM A-615, Grade 60. No. 3 bars may be grade 40. All reinforcing steel shall be positioned as indicated on Drawings.

2.04 EXPANSION JOINTS

Expansion joints shall be non-bituminous, ½" thickness, meeting ASTM Standard D-1751. (Homex 300 or equal).

2.05 SOFT-CUT JOINTS

Use blades and equipment that is designed for Soft-Cut technology which is based on the combination of the Soft-Cut blade and skid plate. The up-cutting rotation of the blade combines with the skid plate, which applies pressure to the surface to prevent chipping and spalling.

2.06 CURING COMPOUND

Provide liquid curing compound, ASTM C-309, clear.

2.07 BASE

Base (rock base) shall be crush aggregate base material as per section 200-2.2 of the SSPWC

2.08 SEALER

Sealer shall be a water base clear penetrating sealer.

PART 3 EXECUTION

3.01 SUB GRADE PREPARATION

The subgrade preparation shall be over-excavated, aerated, and compacted as per the requirements of the Geotechnical requirements noted in the reference section of these specifications. This work must be approved by the Geotechnical engineer prior to proceeding with the Work.

3.02 SURFACE CONDITIONS

- A. Take adequate precautions for mixing, placing, finishing, curing, and protecting concrete during unfavorable weather conditions.
- B. Prior to all work of this Section, carefully inspect the installed work of all other trades, and verify that all such work is complete to the point where this installation may properly commence.
- C. All concrete shall be properly consolidated during placement. All reinforcing steel and embedded items shall be securely tied in place to prevent displacement during concrete placement. Support reinforcement on blocks.
- D. Verify that concrete may be placed to the lines and elevations indicated on the Drawings, with all required clearance from reinforcement.
- E. Layout paving surfaces to slope and drain to planting areas at a minimum of 1%. Walkways shall not have a cross slope greater than 2% and the slope in the direction of travel shall not exceed 5%. Layout must be approved by the District Inspector prior to pour. Where concrete paving is poured adjacent to existing concrete, continue the existing slope across the new concrete section.

3.03 PREPARATION

- A. Remove all wood scraps and debris from the areas in which concrete will be placed.
- B. Thoroughly clean the areas to ensure proper placement and bonding of concrete.
- C. Thoroughly wet the forms or oil them; remove all standing water.
- D. Thoroughly clean all transporting and handling equipment.
- E. Compact base to 95% relative compaction per ASTM D-1557.

3.04 PLACING CONCRETE

- A. Convey concrete from mixer to place of final deposit by methods that will prevent separation and loss of materials.
- B. For chuting, pumping and pneumatically conveying concrete, use only equipment of such size and design as to ensure a practically continuous flow of concrete at the delivery and without loss or separation of materials.
- C. Deposit concrete as nearly as possible in its final position to avoid segregation due to re-handling and flowing.
- D. Place concrete as dry as possible consistent with good workmanship, never exceeding the maximum specified slump.
- E. Place concrete at such a rate that concrete is, at all times, plastic and flows readily between bare bars.

- F. When placing is once started, carry it on as a continuous operation until placement of the panel or section is complete.
- G. Thoroughly consolidate all concrete by suitable means during placement, working it around all embedded fixtures and into corners of forms.
- H. During placement, thoroughly compact the concrete by hand tamping and by mechanical vibration.

3.05 TOLERANCE

Concrete planes shall be checked with a ten-foot straight-edge in two directions. There shall be no high spots or low spots greater than 1/8" in ten feet. All edges shall be straight and true.

3.06 SOFT-CUT LINES

The Contractor shall determine the best time to soft cut the lines on the concrete. This timing is usually 7-20 hours after the pour. Avoid cutting too soon which will cause raveling of the concrete or too late which cracking may occur. Joints shall be cut straight with equipment and saw blades designed for early-entry concrete sawing.

3.07 SCORE LINES AND EXPANSION JOINTS

- A. Score lines shall be straight and shall be of the proper alignment as shown on the Drawings. The score depths shall be approved prior to finishing.
- B. Expansion joints shall be straight, in line and plumb.

3.08 CURING AND PROTECTION

Freshly deposited concrete shall be protected from pre-mature drying and excessively hot or cold temperatures and shall be maintained without drying at a relatively constant temperature for the period of time necessary for the hydration of the cement and proper hardening of the concrete. Apply liquid curing compound as soon as finishing is complete, within 2 hours, and in accordance with Manufacturer's directions.

END OF SECTION 32 13 13

SECTION 32 14 13 CONCRETE PAVERS

PART 1 GENERAL

1.01 SECTION INCLUDES

This section includes general requirements for the installation of the concrete pavers.

1.02 SUBMITTALS

Submit four (4) samples of each concrete paver specified to the District for approval. Concrete pavers must be full size and represent the colors to be supplied.

1.03 PRODUCT HANDLING

Concrete pavers shall be delivered and unloaded at jobsite on pallets and bound in such a manner that no damage occurs to the product during hauling, handling, or unloading at the jobsite.

1.04 QUALIFICATIONS

ICPI certified installers shall be utilized for the construction of the concrete pavers.

PART 2 PRODUCTS

2.01 CONCRETE PAVERS

- A. Concrete pavers shall be concrete interlocking paving units and shall conform to ASTM C-936.
- B. Concrete pavers shall be interlocking concrete pavers manufactured by Angelus Block, style – Holland 60 mm. Colors shall be the blended 'Gray-Charcoal' and the 'Charcoal' as indicated on the drawings.
- C. Pattern: running bond in the direction as indicated on the drawings.

2.02 BASE

Base for interlocking pavers shall be crushed rock, $\frac{3}{8}$ " to $\frac{1}{2}$ " size, open graded of same size and conform to ASTM D-1863, clean free of clay particles or other contaminants.

2.03 GEOTEXTILE FABRIC

Weed fabric shall be Mirafi 140N, needle punched, non-woven geotextile or equal.

2.04 BEDDING SAND

Bedding sand shall be clean construction sand conforming to ASTM C-33.

2.05 JOINT SAND

Joint sand shall be Alliance Super Sand (polymeric sand), color gray.

2.06 PAVER SEALER

Paver sealer shall be Stain BLOCKER Invisible by BP Pro.

PART 3 EXECUTION

3.01 BASE

- A. Compact subgrade to 90% relative compaction.
- B. After concrete edging has cured, install geotextile fabric on top of compacted subgrade. Overlap geotextile fabric rolls a minimum of 3" wide or as per manufacturer's specifications. Secure fabric in place with 6" long galvanized steel jute netting staples or with manufacturer's approved stakes spaced 10'-0" O.C. over fabric rolls as well as along all fabric seams.
- C. After concrete edging has cured, install base material to the grades and details shown on the plans.
- D. Compact base to 90% relative compaction per ASTM D-1557.
- E. The base shall be placed below the finish elevation by the thickness of the interlocking concrete pavers plus the sand leveling course. The finish surface of the compacted base shall be uniform and match the contours of the finish pavers with no variation of $\frac{1}{8}$ " throughout the area.

3.02 BEDDING SAND COURSE

Thickness of sand laying course should be uniform to ensure an even surface. The designed thickness should be a maximum of 1 inch with no variation of $\frac{1}{8}$ " and shall match the contour of the finish pavers.

3.03 INSTALLATION OF INTERLOCKING CONCRETE PAVING STONES

- A. Pavers shall be clean and free of foreign materials before installation.
- B. Installation should start from a corner or straight edge and proceed forward over the undistributed sand laying course.
- C. Paving work shall be plumb, level, and true to line and grade; shall be installed to properly coincide and align with adjacent work and elevations.

- D. Paving stones should be installed hand tight and level on the undisturbed sand laying course. String lines shall be used to hold pattern lines true.
- E. Use a rubber plate vibrator to compact the stones and to vibrate the sand up into the joints between the stones.
- F. Spread polymeric plaster sand over the installed concrete pavers so that it may be vibrated into the joints between the stones. Complete installation as per Manufacturer's requirement.
- G. Excess sand shall be disposed of from surface area.
- H. The completed concrete paver installation shall be washed down and cleaned to provide a clean finished workmanlike installation.
- I. Cutting of paving stones shall be done with either a double-bladed breaker or a masonry saw.

3.04 SEALING

- A. Surface Preparation – all surfaces must be clean, free from efflorescence and loose debris including dust and plant material prior to application of StainBLOCKER. The surface and the joint sand shall be thoroughly dry.
- B. Application – BP Pro StainBLOCKER shall be sprayed onto the pavement to saturate the surface to achieve the optimum surface seal. Apply two (2) applications to achieve coverage rate of 1 gallon per 150 sq. ft.
- C. Manufacturer's Recommendations – review and comply with Manufacturer's instructions.

3.05 CLEAN-UP

- A. Upon completion of the work in this Section, make a thorough inspection of installed masonry and verify that units have been installed in accordance with the provisions of this Section.
- B. Make necessary adjustments.
- C. Clean up and disposal of all work-related materials shall be the responsibility of the Contractor.
- D. Contractor shall restore adjacent areas to original plane and remove excess dirt from site.

END OF SECTION 32 14 13

**SECTION 32 16 00
CURBS, GUTTERS, SIDEWALKS**

PART 1 – GENERAL

1.01 SUMMARY

- A. Concrete for curbs, gutters, sidewalks.

1.02 RELATED SECTIONS

- A. Section 31 20 00 – Earthwork

1.03 REFERENCES

- A. Standard Specifications for Public Works Construction (SSPWC), latest edition.
- B. Geotechnical Recommendations for Replacement of Asphalt Concrete and Construction of Paver Landscape Area at Las Posas Elementary School, in the Pleasant Valley School District, 75 East Calle La Guerra, Camarillo, California, dated April 14, 2023 (rev. January 30, 2026), Project No. 1025.003.03, prepared by Geotechniques, and shall be superseded by the most current version.
- C. ASTM standards.

1.04 SUBMITTALS

- A. Submit the following:
 - 1. Product Data: Provide data on admixtures and curing compounds.
 - 2. Concrete mix design(s).
 - 3. Certificates from the batch plant.

1.05 QUALITY ASSURANCE

- A. Perform Work in accordance with the SSPWC, latest edition; and ASTM Standards, latest edition.
- B. Obtain cementitious materials from same source throughout.

1.06 ENVIRONMENTAL REQUIREMENTS

- A. Do not place concrete when base surface temperature is less than 40 degrees F or surface is wet.

PART 2 – PRODUCTS

2.01 FORM MATERIALS

- A. Form Materials: Section 303-5 of the SSPWC.
- 2.02 CONCRETE MATERIALS
 - A. Concrete Material for Curbs, Walk (Path of Travel), Pavement, and Cast-in-Place Catch Basin:
 - 1. Class 520-C-2500 for walkways, curbs, and gutters. Portland cement concrete per Standard Specifications for Public Works Construction Section 201-1.1.2.
 - 2. Concrete reinforcements shall be constructed per the Project Plans and Specifications.
- 2.03 ACCESSORIES
 - A. Curing Compound shall conform to SSPWC Section 201-4. Pigmented compound shall not demonstrate any residual coloring of the concrete after one week.
- 2.04 CONCRETE MIX
 - A. Mix and deliver concrete in accordance with ASTM C94.
 - B. Use accelerating admixtures in cold weather only when approved by the District's Representative. Use of admixtures will not relax cold weather placement requirements.
 - C. Use calcium chloride only when approved by the District 's Representative.
 - D. Use set retarding admixtures during hot weather only when approved by the District 's Representative.
- 2.05 CONCRETE REINFORCEMENT
 - A. Concrete reinforcement shall conform to SSPWC Section 201-2.
- 2.06 SOURCE QUALITY CONTROL
 - A. Provide certificates of compliance from the batch plant.

PART 3 – EXECUTION

- 3.01 EXAMINATION
 - A. Verify compacted subgrade is acceptable and ready to support imposed loads.
 - B. Verify gradients and elevations of subgrade are correct.
- 3.02 PREPARATION

- A. Moisten subgrade to minimize absorption of water from fresh concrete. Compact subgrade material to a depth of 12" beneath aggregate base below concrete pavements to 95% relative compaction.
 - B. Coat surfaces of catch basin frames with oil to prevent bond with concrete pavement.
 - C. Notify District's Representative a minimum of 24 hours prior to commencement of concrete placement operations.
- 3.03 FORMING
- A. Place and secure forms to correct location, dimension, and profile.
 - B. Assemble formwork to permit easy stripping and dismantling without damaging concrete.
 - C. Place joint filler vertical in position, in straight lines. Secure to formwork during concrete placement.
- 3.04 PLACING CONCRETE
- A. Place concrete in accordance with SSPWC Section 303-5.
 - B. Install ½" thick fiberboard expansion joint and snap cap. Seal with Sikaflex self-leveling sealant after removal of snap cap (typical).
 - C. Construct weakened plane joints conforming to SSPWC Section 303-5.4.3, one inch deep, at intervals not exceeding 10 feet.
 - D. The top edges of curbs shall have 0.5" radius.
- 3.05 FINISHING
- A. Concrete finishes to conform with SSPWC Section 303-5.
- 3.06 FIELD QUALITY CONTROL
- A. Inspection and testing shall be performed by the District's Testing Laboratory.
 - B. District 's Testing Laboratory will perform slump and compressive strength tests.
 - C. Contractor shall maintain records of placed concrete items. Record date, location of pour, quantity, air temperature, and test samples taken.
- 3.07 PROTECTION
- A. Immediately after placement, protect pavement from premature drying, excessive hot or cold temperatures, vandalism and mechanical injury.
 - B. It is the Contractor's responsibility to replace all concrete work subject to vandalism and graffiti at no extra cost to the District.

END OF SECTION 32 16 00

**SECTION 32 18 13
SYNTHETIC TURF INSTALLATION**

PART 1 GENERAL

1.01 SECTION INCLUDES

This section includes requirements for the installation of the synthetic turf.

1.02 QUALITY ASSURANCE

- A. Contractor shall have a minimum of five years' experience installing synthetic turf applications. Submit list of completed projects and contact person for District verification.
- B. As an alternate to the above, the Contractor can be a certified installer as verified by a certification letter to the District by the selected Synthetic Turf Manufacturer.
- C. Comply with all district Rules and Requirements as related to the use of glues, and products related to this work.

1.03 SUBMITTALS

Submit Manufacturer's specifications, samples, product material list, and all information for the selected synthetic turf. This must be submitted and approved prior to and purchase agreement between the Contractor and Supplier.

PART 2 PRODUCTS

2.01 SYNTHETIC TURF

Synthetic turf shall be "Turfscapes" Natural Estate, Marathon 60 ounce – 1.75 blade length or approved equal.

2.02 ADHESIVES

Shall be as required by the synthetic turf manufacturer.

2.03 BASE

Base shall be crushed aggregate base as per Section 200-2.2 of the SSPWC.

2.04 GEOTEXTILE FABRIC

Weed fabric shall be Mirafi 140N, needle punched, non-woven geotextile or equal.

2.05 NAILS

Shall be 6-inch common nails.

2.06 INFILL

- A. Infill material shall be "Envirofill" as manufactured by Greentech. The synthetic turf infill material shall be specifically designed and manufactured for landscape use. It shall be rounded, and highly uniform quartz sand pigmented and sealed with an acrylic polymer and have the following properties:
1. The silica sand shall have a Coefficient of Uniformity of ≤ 1.3 .
 2. The roundness as measured by the Krumbein Shape Scale shall be 0.7+.
 3. 98% of the particles retained on US standard sieves 12 through 20.
 4. The coated particles shall be smooth to resist mounding and compaction and have an angle of repose of 30% or less.
 5. The finished product shall be 100% coated, shall repel water, be non-flammable and have <0.5% dust content.
 6. Product shall be infused with Microban ® during manufacturing to provide continuous antimicrobial protection.
 7. Product shall be exempt from Prop 65 warning requirements.
 8. Color: Green
 9. Product to be Envirofill® manufactured by USGreentech, L.L.C. or approved equal.

PART 3 EXECUTION

3.01 SUB GRADE PREPARATION

The subgrade preparation shall be over-excavated, aerated, and compacted as per the requirements of the Geotechnical requirements noted in the reference section of these specifications. This work must be approved by the Geotechnical engineer prior to proceeding with the Work.

3.02 EXAMINATION OF SITE

The Contractor shall examine the site and observe the conditions under which the work shall be done and note any circumstances which will affect the work.

3.03 EDGE RESTRAINT

The edge restraint shall be the existing concrete walk edges and the new concrete curbs as indicated on the drawings.

3.04 BASE PREPARATION

Install 3 thick crushed rock base throughout the synthetic turf area. Subgrade shall be uniform in grade with no more than 1/8" variation. Install base material to smooth uniform surface and compact with vibrator plate. Finish surface next to the concrete edge so that the turf is flush with the concrete surface.

3.05 SYNTHETIC TURF INSTALLATION REQUIREMENTS

Follow the selected Manufacturer's installation procedures. All work progress must be approved by the District Inspector before proceeding with the next step. Turf seams shall be glued together with seam cloth. The turf shall be overcut on the edges so that the turf edge can be tightly "chiseled" down between the aggregate base and concrete edge. Nail as per the nail pattern shown on the details. Infill shall be evenly spread at the rate of two pounds per square foot. Finish shall be a smooth uniform layer without wrinkles and/or bulges.

3.06 DISPOSAL

Remove from the site and dispose of all unused material in a legal manner.

END OF SECTION 32 18 13

SECTION 32 84 23 IRRIGATION SYSTEM

PART 1 GENERAL

1.01 SECTION INCLUDES

This section includes requirements for the installation of the Irrigation System.

1.02 RELATED SECTIONS

32 93 43 – Tree Planting

1.03 REQUIREMENTS OF REGULATORY AGENCIES

Secure all permits and licenses necessary for the work. Give all notices and comply with all laws, ordinances, rules, and regulations concerning the installation of the sprinkler system as drawn and specified.

1.04 SITE CONDITIONS

- A. Prior to beginning any work, the Contractor and the District Inspector shall participate in a thorough irrigation system review of the project site. All remote control valves shall be turned on and observed in operation by both the Contractor and PVSD Representative. Any existing defects will be listed in detail identifying the specific valve station number and describing the exact broken or non-functioning irrigation component noted during the site review. At the conclusion of the irrigation review, the Contractor shall generate a summary of the items identified by both parties listing all remote control valves operated, identifying if the valve performed without any defects or specifically identifying any observed defects or non-functioning components, such as broken heads, clogged nozzles, non-operating valve solenoids, broken piping, or other noted defects. The completed summary of items noted shall be listed on a document called 'Existing Irrigation System Observations.' This document shall be signed by the Contractor and submitted to the PVSD Representative for a confirming signature. The mutually signed 'Existing Irrigation System Observations' document shall be sent to the attention of the Landscape Architect for inspection purposes at the conclusion of the construction work. If requested by the PVSD Representative, the Contractor shall provide a list of the existing defective irrigation components noted with a detailed written proposal to repair each item identified on the list. A copy of this proposal will be sent to the Landscape Architect. This additional work proposal must be reviewed and approved in writing by the PVSD and formally presented to the General Contractor before the Landscape Subcontractor can begin any additional repair work. The mutually signed 'Existing Irrigation System Observation' document shall be used as a guide to identify any collateral damage caused to the existing irrigation system as a result of new construction performed on site by the Contractors. Any damage caused to the existing irrigation system not specifically identified on the 'Existing Irrigation System Observation' document shall be repaired or replaced at the Contractor's expense. In the event that the Contractor does not participate or perform the existing irrigation site review, any

existing irrigation equipment or components damaged on the project site noted by the Landscape Architect during the final irrigation system review shall be repaired or replaced by the Contractor at their expense to the satisfaction of PVSD.

- B. Do not willfully install the sprinkler system as indicated on the drawing when it is obvious in the field that unknown obstructions or grade differences exist that might not have been considered in the engineering. Such obstructions or differences should be brought to the attention of the District Inspector.
- C. Before excavating for sprinkler lines, locate all underground utility lines so that the proper precautions may be taken to avoid damage to such utilities. In the event of a conflict between underground lines, promptly notify the District who will arrange for the relocation of one or the other. Failure to follow this procedure places the responsibility upon the Contractor for making any and all repairs for damage of any kind at his own expense.
- D. Provide necessary safeguards and exercise caution against injury or defacement of any existing site improvements. Contractor shall be responsible for any damage resulting from his operations and shall repair or replace such damage at his own expense. No trucks or vehicles of any kind shall be allowed to pass over sidewalks, curbs, etc., unless adequate protection is provided.
- E. Existing Trees
 - 1. Exercise all possible care and precautions to avoid injury to tree roots, trunks, and branches. All excavating within drip line of trees shall be done very carefully and by hand pick and shovel if it appears that large roots are within trenching zones.
 - 2. Alter alignment of pipe to avoid large tree roots, 2-inch and larger in diameter.
 - 3. Wrap exposed and bridging tree roots with several layers of burlap and keep moist. Close all trenches within drip lines, within 24 hours.
 - 4. All severed roots 1-inch and larger shall be hand pruned with sharp tools and painted with acceptable horticultural seal.

1.05 MATERIAL LIST

Submit to the District for acceptance five (5) copies of all materials and equipment, including Manufacturer's names and catalog numbers, to be furnished and installed under this contract within 10 days after the award of the contract.

1.06 RECORD DRAWINGS

- A. Provide and record daily a complete record set of prints on bond which shall be corrected to show changes from the original drawings and specifications and the exact installed locations, sizes, and kinds of equipment. Prints for this purpose may be obtained from the District. Keep this set of drawings on the site and use only as a record set.

- B. Use these drawings as work progress sheets. Make neat and legible annotations thereon as the work proceeds, showing the work as actually installed. Keep these drawings available at all times for inspection and in a location designated by the District.
- C. Before the date of the final inspection, transfer all information from the record prints to a clean set of prints procured from the District. Make work neat, in ink and subject to review and acceptance of the District. District will scan final drawings into a permanent electronic record document.
- D. Dimension from two permanent points of reference such as building corners, sidewalks or road intersections, the location of:
 - 1. Connection to existing water lines.
 - 2. Connection to existing electrical power.
 - 3. Gate valves.
 - 4. Routing of sprinkler pressure lines and control wiring.
 - 5. Electric control valves.
 - 6. Quick coupling valves.
 - 7. Other related equipment as directed by District.

1.07 TESTS AND SITE OBSERVATIONS

- A. All tests shall be made in the presence of the District; at least forty-eight (48) hours' notice shall be given for tests.
- B. Record drawings must be current and shall be verified by the District at the time of all observations.
- C. Site observations for all items pertaining to the work of this Section shall be performed by the District.
- D. Specific site observations for valve assemblies, sprinkler coverage, control wires and splices and any other observations deemed necessary by the District shall be performed by the District.
- E. An open trench main line check for pipe quality and depths shall be performed by the District.
- F. Head Layout - using flag marker layout all drip emitter, tree flood bubblers, and spray heads in field prior to trenching. Review head layout with District and Landscape Architect and make adjustments in fields as directed prior to installing irrigation.
- G. Center load pipe with small amount of backfill to prevent arching and whipping under pressure. Leave joints exposed for observation during pressure test. No water shall be permitted in the pipe until the above has been accomplished and a period of at least 24 hours has elapsed for solvent weld setting and curing.

Main lines to be tested up to valve at 125 pounds pressure and there shall be no leaks. Furnish force pump and pressure gauge. Lateral lines of system to be tested at line pressure with risers capped. Tests have to be for a 2 hour period and verified by the District.

- H. Backfill quality and compaction of trenches shall be verified by the District. Do not backfill trenches until all tests have been completed and accepted.
- I. Perform a coverage test in the presence of the District to determine if the water coverage for planting areas is complete and adequate. Furnish materials and perform all work required to correct any inadequacies of coverage due to deviations from drawings, or where the system has been willfully installed as indicated on the drawings when it is obviously inadequate, without bringing this to the attention of the District.
- J. The coverage test shall be completed, and the irrigation system modified if necessary and accepted, prior to the start of the planting operations.
- K. The entire system shall be checked out thoroughly and completely by the Contractor five (5) days prior to the final observation. All heads shall be properly aligned and adjusted for coverage and cleared of any foreign materials. All valves shall be properly adjusted. Sprinkler controller valve chart shall be checked for accuracy.
- L. At the end of the Maintenance Period, a final observation shall be made by the Contractor and District to check out the entire system.
- M. Final inspection prior to acceptance:
 - 1. Operate each system in its entirety for the District at time of final inspection. Rework any items deemed not acceptable to the District.
 - 2. Deliver to the District all accessories, charts, record drawings, and equipment as required before final inspection.

1.08 GUARANTEE

- A. The entire sprinkler system shall be guaranteed for a period of one (1) year from date of final acceptance.
- B. Should any portion of the irrigation system malfunction due to poor workmanship or defective materials, corrections shall be promptly made by the Contractor at his own expense.
- C. Any damage to paving, plating, or other developments due to the settlements of improperly compacted trench soil, shall also be promptly repaired at the Contractor's expense, to the satisfaction of the District.

PART 2 PRODUCTS

2.01 GENERAL

- A. Irrigation materials shall be as listed on the Irrigation Legend and in these specifications.
- B. The irrigation products specified on the drawings in these specifications are selected to match existing products in use. Substitutions are permitted only when product name is followed by or equal.
- C. Use only new materials of brands and types as noted on the drawings and as specified.

2.02 MATERIALS

- A. PVC primer and solvents - as recommended by Manufacturer. John-Manville, Lasco, or Pacific Western.
- B. Main Line Fittings - Schedule 40, PVC Type 1, Grade 1, Cell Classification 12454-B, side gated, Lasco Spears, or approved equal.
- C. Lateral non-pressure line fittings - Schedule 40, PVC Type 1, Grade 1, Cell Classification 12454-B, side gated, Lasco or approved equal.
- D. Nipples and Risers - PVC Schedule 80.
- E. Pipe, Main Line shall be PVC Schedule 40 for size 1 ½" or less, solvent weld pipe in conformance with ASTM D-1785, D-1784. Mainline 2" and larger shall be Class 315 PVC.
- F. Pipe, Lateral Non-Pressure Lines shall be PVC Schedule 40, solvent weld in conformance with ASTM D-1785, D-1784.
- G. Thread Sealant shall be smooth, non-hardening sealant, compatible with the pipe materials specified. Do not use Teflon tape.

PART 3 EXECUTION

3.01 WORKMANSHIP AND INSTALLATION.

- A. Layout and Adjustments
 - 1. The drawings are diagrammatic to the extent that many offsets, special fittings, and exact locations of the equipment are not shown. The locations of all valves, heads, lines, etc., shall be installed, however, as accurately as possible to the locations that are indicated on the drawings.
 - 2. The locations of main lines that are indicated as bordering walks, curbs and fences shall be placed as close as possible. Locate lines within planting areas wherever possible.

3. All indicated locations of heads and equipment are placed with careful consideration to overlap, protection of the premises, lights, proposed tree locations, and general layout. Coordinate installation of sprinkler irrigation materials, including pipe, so there is no interference with utilities, other construction, or difficulty in planting trees and shrubs. Layout sprinkler heads and make any minor adjustments required due to differences between site and drawings. Adjustments shall be accomplished, maintaining proper sprinkler head coverage and overlap of sprinkler throws.
- B. Connections
1. All connections shall be made into existing lines as indicated on the drawings.
 2. Field verify existing line types in the field.
- C. Cutting and Patching
1. When piping crosses concrete paving and asphalt paving, sawcutting is required. Cut AC paving and/or concrete with concrete sawcutting tools straight and in those locations approved by the District.
 2. Remove concrete and/or AC, base, and soil to the required depth for mainlines.
 3. Concrete walks shall be backfilled entirely with compacted sand. Compact to 95% and patched with new concrete.
 4. AC paving shall be backfilled entirely with a 1-sac sand slurry mix. Compact to 95% and patch with new AC paving.
 5. Concrete paving shall be received medium broom finish.
 6. Remove from site any excavated soil.
- D. Trenching and Backfilling
1. Trench and excavate as necessary to install the system. Excavated material shall be neatly arranged so as to cause a minimum of inconvenience to pedestrian and vehicular traffic. No soil shall be placed on concrete paving without an adequate moisture proof membrane to protect paving.
 2. Trenches for all pipe shall be open vertical construction with firm level bottom and sufficiently wide to provide free working space around the work installed and to provide ample space for backfilling and tamping.
 3. Depth of trenches shall be sufficient to provide a minimum cover above the top of the pipe as follows:
 - a) Mains and control wires: 24-inches minimum cover.
 - b) PVC laterals: 12-inches minimum cover.
 4. When two (2) pipes are to be placed in the same trench, provide a minimum of 6-inch horizontal clearance. Place pipe side by side; do not install one pipe on top of another.
 5. After the installation is complete and the required tests and inspections have been made and approved, the excavations and trenches shall be backfilled with clean soil, free of rubbish, rocks, and pebbles larger than one-half inch.

E. Plastic Pipe

1. Do not install multiple assemblies on plastic lines. Provide each assembly with its own outlet.
2. Install assemblies specified herein in accordance with respective detail. In absence of detail drawings or specifications pertaining to specific items required to complete work, perform such work in accordance with best standard practice.
3. Clean PVC pipe and fittings before installation. For solvent weld pipe use installation and solvent welding methods as recommended by the pipe and fitting manufacturer. For gasketed pipe installation follow detailed assembly instructions furnished by the manufacturer.
4. On PVC to metal connections, work the metal connections first. Use non-hardening sealant on all threaded joints. Screw hand tight and ½ turn by wrench. Where threaded PVC connections are required, use threaded PVC adapters into which the pipe may be welded.
5. Pipe shall have a firm, uniform bearing, for the entire length of each pipeline, to prevent uneven settlement. Pipe shall be snaked from side to side of trench bottom to allow for expansion and contraction. One additional foot per 100 foot of pipe is the minimum allowance for snaking. Never lay PVC pipe when there is water in the trench or when the temperature is 32° F or below.
6. Use 45° fittings at all changes in depth of pipe. Coupling to be of same materials and wall thickness as pipe.

F. Sprinkler Controller – the irrigation controller is existing.

G. Sprinkler Heads

1. Prior to installing heads, flush laterals, and risers with full line pressure. Repeat whenever system is opened up for repairs or replacements. Start flushing operation at the highest point of delivery and work to the lowest.
2. Align all part circle heads so that no spray shall hit building walls or concrete paving.
3. Adjust all spray nozzles so that there will be no amount of overspray, and so that the entire set will be as evenly balanced as possible.
4. Install with each lawn area sprinkler head, a "Triple Swing" joint with Schedule 80 PVC nipples and threaded ells.
5. Install all tree bubblers and drip emitters on PVC flexible hose with two (2) solvent weld male adapters.

3.02 FIELD QUALITY CONTROL

A. Adjustment to System

1. Flush and adjust all sprinkler heads for optimum performance and to prevent overspray onto walk, roadways, and buildings wherever possible.
2. Select the best degree of arc to fit existing site conditions.
3. Set all sprinkler heads perpendicular to finished grades unless other designated on the drawings.

3.03 TESTING AND INSPECTION

- A. Do not allow or cause any work of this section to be covered up or enclosed until it has been inspected, tested, and approved by the District. Before backfilling the main line, and with all control valves in place, but before lateral pipes are connected, completely flush and test the mainline, and repair all leaks. Flush out each section of lateral pipe before emitters are attached.
- B. Make all necessary provisions for thoroughly bleeding the line of air and debris. Before testing, fill the line with water for a period of at least 24 hours.

3.04 FINAL INSPECTION

Thoroughly clean, adjust and balance all systems. Demonstrate the entire system to the District proving that all remote control valves are properly balanced, that all emitters are properly flowing, and that the entire system is installed and is workable, clean, and efficient.

END OF SECTION 32 84 23

SECTION 32 93 43 TREE PLANTING

PART 1 GENERAL

1.01 SECTION INCLUDES

This section includes general requirements for the installation of trees.

1.02 SUBMITTALS

- A. Furnish material invoices indicating the quantities of fertilizers, soil amendments, and all materials delivered to the jobsite. Material invoices must be approved by the Landscape Architect prior to incorporating soil amendments. Certificates shall be prepared by the supplier or distributor and shall indicate the quantities and qualities of materials used.
- B. Plant Material – submit clear photos of all plant material specified taken and the source. Indicate plant material height and spread measured at the source. Photos must clearly show the plant quality and size. The Landscape Architect will determine if the photos meet the specifications and if further site inspection at the nursery is required or if another source is required to produce the specified plant material.

1.03 PROTECTION

- A. Contractor shall check or locate existing structures, electric cables or conduits, utility lines and other existing features or conditions above or below ground level that might be damaged because of the operation. Questions or conflicts arising out of such examination prior to or during operation shall be immediately directed to the attention of the District for necessary action or decisions before resuming operation. Contractor shall be responsible for repair or replacement at no cost to the District for features or conditions damaged through failure to comply with the above procedures.
- B. Protect existing trees and tree roots from any damage that may be caused by the Work.

1.04 QUALITY

All trees shall have a growth habit normal to the species and shall be sound, healthy, vigorous, and free from insect pests, plant diseases, sun scalds, fresh bark abrasions, excessive abrasions, or other objectionable disfigurements. Tree trunks shall be sturdy and well "hardened off." All trees shall have normal well-developed branch systems, and vigorous and fibrous roots systems which are neither root bound, nor pot bound and are free of kinked or girdling roots.

1.05 ALTERNATES

Alternates will not be permitted, except where indicated, and as approved by the Landscape Architect.

1.06 GUARANTEE

All trees shall be guaranteed for one year. This guarantee is in addition to, and not a limitation other rights the District may have under the Contract Document.

PART 2 PRODUCTS

2.01 MATERIALS – LANDSCAPE

- A. Trees: varieties, sizes, and quantities, as noted on plans.
- B. Tree Stakes: tree stakes shall be 2" diameter Lodgepole Pine, pressure treated with Chemonite (ACZA) @ 0.40 pounds per cubic foot, for in-ground rating. Stakes shall be 10 feet long. Horizontal supports shall be 1 x 6 cedar.
- C. Tree Ties: tree ties shall be virgin flexible vinyl, meeting ASTM D-412, with U.V. inhibitor. 24" inches long. (Cinch Ties of eq.)
- D. Root barrier shall be high density polyethylene flat panels, 24 inches long by 18 inches deep, thickness 0.085 inch with vertical ribs at six inches on center with formed connectors that connect panels to the specified total required length.
- E. Soil Amendments: organic soil amendment shall be Agromin "Agromend," or equal.
- F. Backfill Material shall be:
 - 1. 1/3 organic soil amendment
 - 2. 2/3 existing site soil.
 - 3. Commercial Fertilizer (15-15-15), 1 lb./cu. yd.
 - 4. Iron, Zinc, Manganese, 1 oz. /cu. yd.

PART 3 EXECUTION

3.01 SITE CONDITION

No trees shall be planted until all operations in conjunction with the installation of the irrigation system have been approved by the District and the Landscape Architect. Final grades shall be established, and the planting areas shall be properly prepared and graded.

3.02 TREE PLANTING PITS

- A. Excavate tree planting pits 12 inches wider than the tree box size on all sides and excavate to a depth that allows the tree crown (finish grade at the top of the box) to set two inches above the adjacent finish grades. Scarify the sides of the tree pit.
- B. Thoroughly blend the backfill mix and apply water while backfilling. Tree root ball, plant pit and backfill material must be moist for the duration of installation. After tree is set plumb and staked, build temporary berm and fill basin with water. At all times, do not allow the tree root ball to dry out.
- C. Stake tree as per details and, if necessary, trim top of tree stakes so no scaffold branches can rub against the tree stakes. Stakes and ties shall be set so that the tree is supported without leaning. Remove nursery stakes on trees immediately after the tree is staked.

3.03 TREE PRUNING

If directed by the Landscape Architect, remove specific branches or prune adhering to the ANSI A300 pruning standards.

3.04 ROOT BARRIER

Install tree root barriers in the total lengths and manner as shown on the plans and details. The vertical root deflecting ribs shall be facing inwards to the rootball, and the double top edge shall be set 2 inches above the finish grade. Connect panels with the flexible joiner strips to the required overall length shown on the legend. Install panels straight, uniform in a vertical position.

END OF SECTION 32 93 43

**SECTION 32 94 60
LANDSCAPE MAINTENANCE**

PART 1 GENERAL

1.01 MAINTENANCE PERIOD

There is no extended landscape maintenance period with this project. Once the PVSD Inspectors have accepted the irrigation and planting work as complete, the Contractor shall be released from the landscape scope of work.

END OF SECTION 32 94 60

**SECTION 33 40 00
STORM DRAINAGE UTILITIES**

PART 1 GENERAL

1.01 SUMMARY

- A. Storm drainage piping, fittings, accessories, and bedding.
- B. Catch basins and area drains.
- C. Inlet and outlet structures.

1.02 RELATED SECTIONS

- A. Section 31 20 00 Earthwork.
- B. Section 31 23 33 Trenching and Backfilling.

1.03 REFERENCES

- A. Standard Specifications for Public Works Construction (SSPWC), latest edition.
- B. ASTM Standards.
- C. Geotechnical Recommendations for Replacement of Asphalt Concrete and Construction of Paver Landscape Area at Las Posas Elementary School, in the Pleasant Valley School District, 75 East Calle La Guerra, Camarillo, California, dated April 14, 2023 (rev. January 30, 2026), Project No. 1025.003.03, prepared by Geotechniques, and shall be superseded by the most current version.

1.04 SUBMITTALS

- A. Submit the following in accordance with provisions in Division 1:
 - 1. Product Data: Provide data indicating pipe, pipe accessories and catch basin grates.
 - 2. Manufacturer's Installation Instructions: Indicate special procedures required to install Products specified.
 - 3. Manufacturer's Certificate: Certify that products meet or exceed specified requirements.
 - 4. Layout diagram for storm drain components per plan.

1.05 PROJECT RECORD DOCUMENTS

- A. Submit record drawings. Accurately record locations of pipe runs, connections, catch basins, structures, manholes and invert elevations.

- B. Identify and describe unexpected variations to subsoil conditions or discovery of uncharted utilities.

1.06 FIELD MEASUREMENTS

- A. Verify that field measurements and elevations are as indicated on drawings.
- B. Complete pothole work per plans and notify the District's Representative of any discrepancy prior to commencing construction.

1.07 COORDINATION

- A. Coordinate the work with connection to existing storm drain mains, and trenching.

PART 2 PRODUCTS

2.01 PIPE MATERIALS AND ACCESSORIES

- A. Polyvinyl Chloride (PVC) Pipe for Storm Drain: ASTM 3034-SDR35 Ring-Tite Polyvinyl Chloride (PVC) storm drain pipe and fittings; inside nominal diameter as indicated on Drawings. PVC pipe shall use "locked-in" rubber sealing ring conforming to ASTM D-3212. Joints using flexible Elastomeric Seals. Minimum pipe stiffness at 5% deflection shall be 46 psi for all sizes when tested in accordance with ASTM Method of Test D2412.
- B. Fittings: Same material as pipe molded or formed to suit pipe size and end design, in required tee, bends, elbows, cleanouts, reducers, traps and other configurations required. Fittings shall be watertight.

2.02 PRECAST REINFORCED CONCRETE BOX

Precon Products or approved equal. Conform with SSPWC, Section 216.

2.03 CATCH BASINS AND AREA DRAINS

- A. Precast catch basins shall include ADA/heelproof rated frame and grate with bolt down configuration, as manufactured by Precon Products or approved equal.
- B. Area drains shall be NDS area drain with atrium grate or approved equal.

2.04 METAL

Catch basin frame and grate shall be cast iron. All other exposed metal parts are to be galvanized in accordance with SSPWC, Section 210-3.

2.05 CONCRETE

- A. Trench backfill slurry shall be Class 100-E-100 per SSPWC Section 201.
- B. Catch basins shall be Class 560-C-3250 per SSPWC Section 201.

2.06 BEDDING MATERIALS

- A. Refer to Specification Section 31 23 33 Trenching and Backfilling for Bedding Material.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify that trench cut is ready to receive Work and excavations, dimensions, and elevations are as indicated on Drawings.

3.02 PREPARATION

- A. Hand trim excavations to required elevations. Correct over excavation with compacted bedding material.
- B. Remove large stones or other hard matter which could damage piping or impede consistent backfilling or compaction.

3.03 BEDDING

- A. Excavate pipe trench in accordance with Specification Section 31 23 33. Hand trim excavation for accurate placement of pipe to elevations indicated on Drawings.
- B. Place bedding material in trench bottom, level materials in continuous layer. Bedding shall be 4" thickness for pipe diameters less than or equal to 24" and 6" thickness for pipe diameters greater than 24" and shall be per SSPWC Section 217-1.2.

3.04 INSTALLATION - PIPE

- A. Install pipe, fittings, and accessories in accordance with manufacturer's instructions and per SSPWC Section 207.
- B. Lay pipe to slope gradients noted on drawings; with maximum variation from true slope of 1/8 inch in 10 feet.
- C. Install backfill along sides and over top of pipe. Provide backfill over top of pipe to minimum compacted thickness of 12 inches, compacted to a minimum of 95 percent of maximum dry density.
- D. Refer to Specification Section 31 23 33 for Trenching Requirements. Do not displace or damage pipe when compacting.
- E. The compaction of the backfill material along the sides and one foot above the pipe shall be done with hand tampers or equal to protect the pipe.

3.05 INSTALLATION - CATCH BASINS

- A. Form bottom of excavation clean and smooth to correct elevation.
- B. Form and place cast-in-place concrete base with provisions for storm drainage pipe end sections.
- C. Level top surface of concrete base to receive shaft sections.
- D. Establish elevations and pipe inverts for inlets and outlets as indicated on drawings.
- E. Compact top 12" of native materials below the bottom of catch basins to minimum 95 percent of maximum dry density.

3.06 FIELD QUALITY CONTROL

- A. Inspection shall be performed by the District's Representative.
- B. Request inspection prior to and immediately after placing backfill cover over pipe.
- C. If tests indicate work does not meet specified requirements, remove work, replace and retest at no cost to the District.

3.07 PROTECTION

- A. Protect pipe and backfill cover from damage or displacement until backfilling operation is in progress.

END OF SECTION 33 40 00