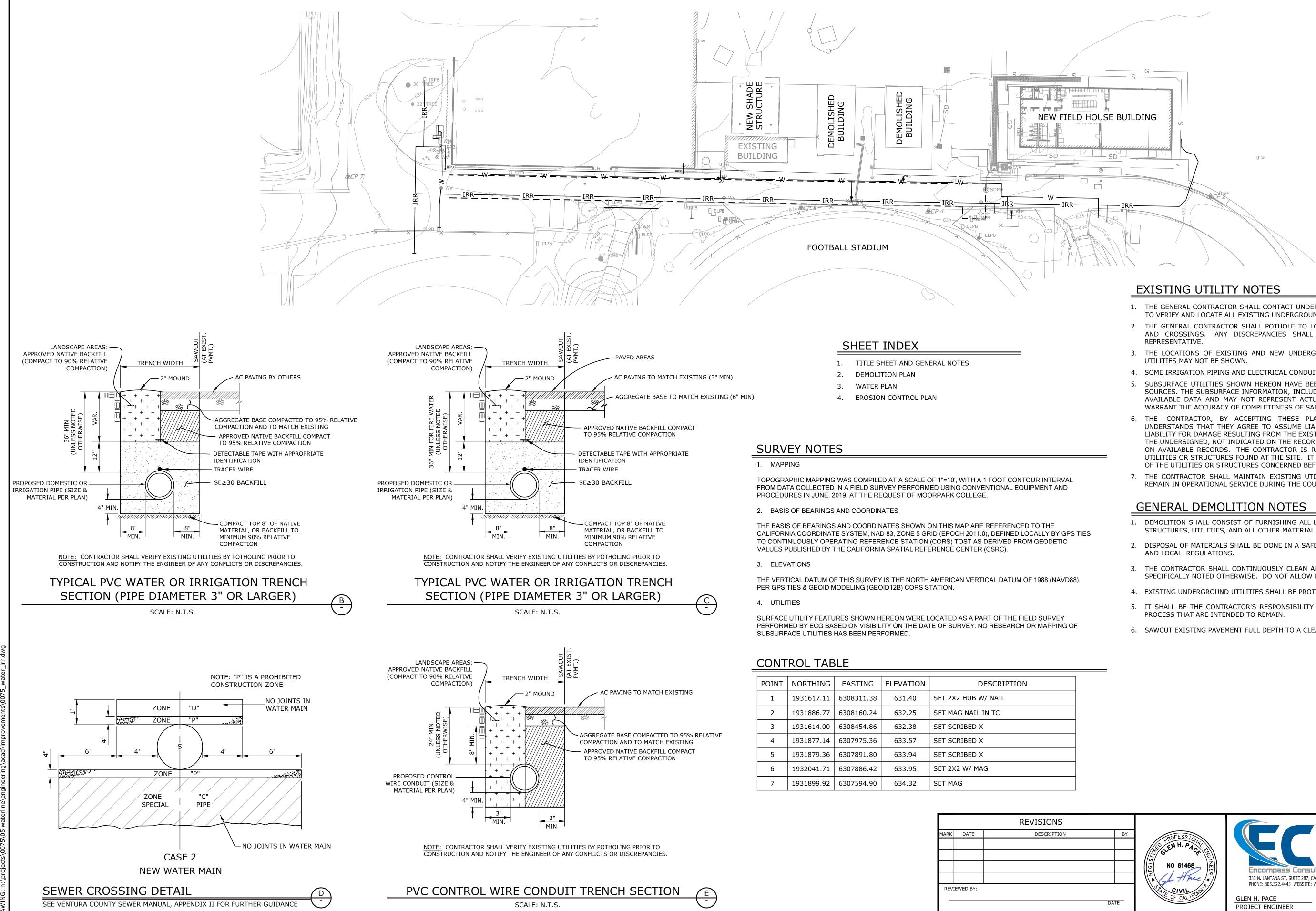
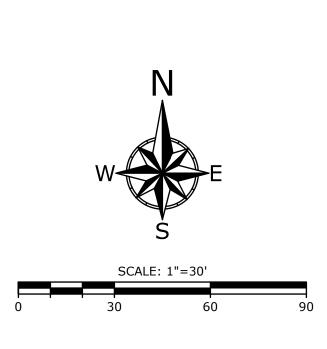
MOORPARK COLLEGE STADIUM ROAD WATERLINE REPLACEMENT BID 589



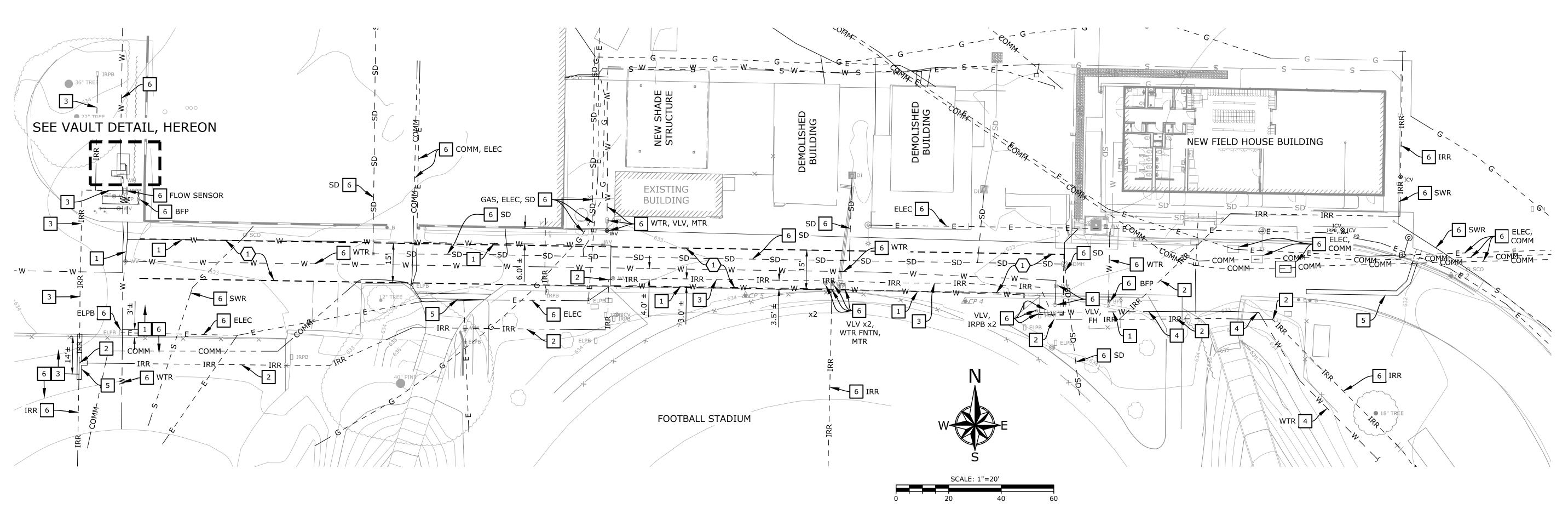
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1931617.11	6308311.38	631.40	SET 2X2 HUB W/ NAIL
2	1931886.77	6308160.24	632.25	SET MAG NAIL IN TC
3	1931614.00	6308454.86	632.38	SET SCRIBED X
4	1931877.14	6307975.36	633.57	SET SCRIBED X
5	1931879.36	6307891.80	633.94	SET SCRIBED X
6	1932041.71	6307886.42	633.95	SET 2X2 W/ MAG
7	1931899.92	6307594.90	634.32	SET MAG

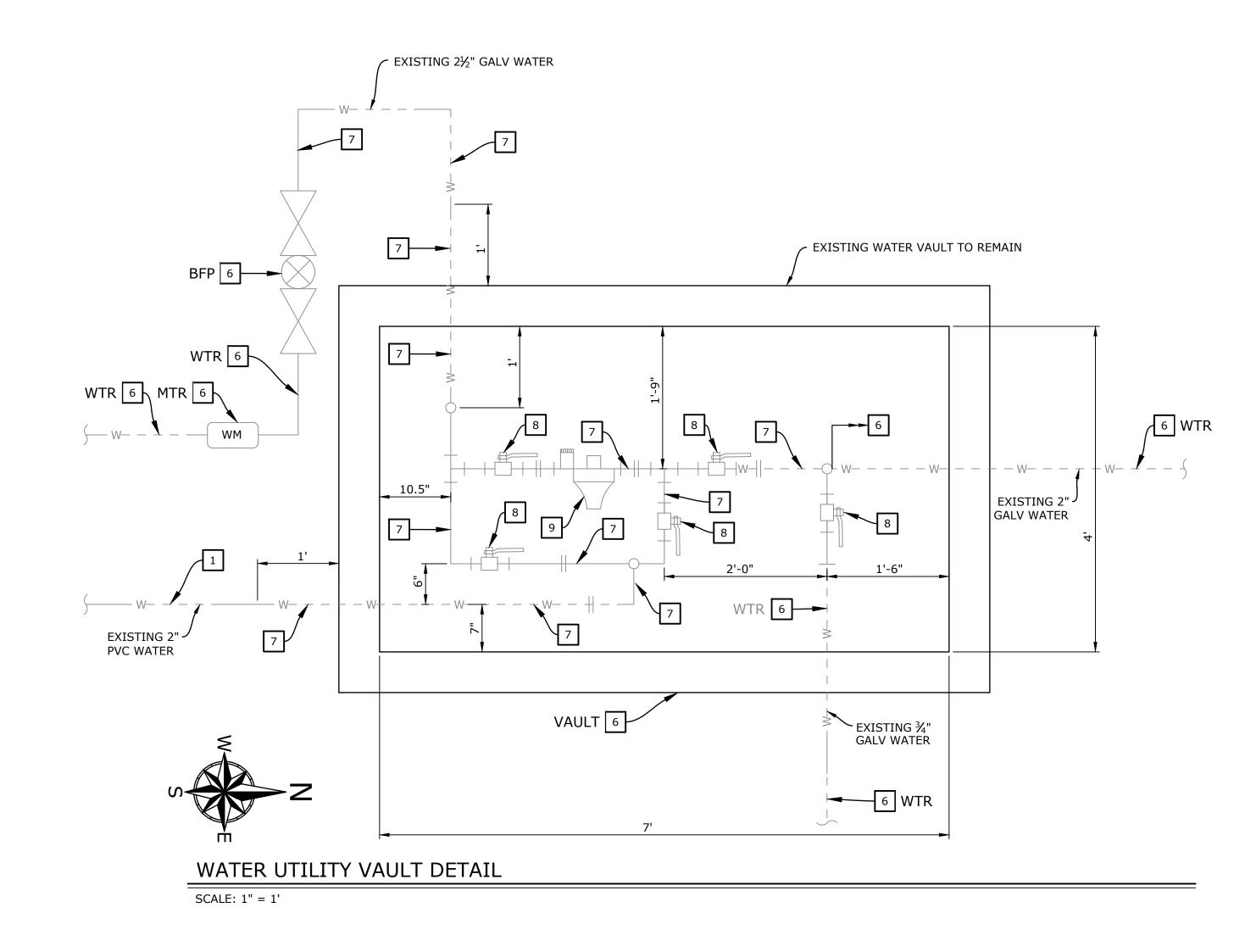
REVISIONS					
MARK DATE DESCRIPTION BY	PROFESS/ON		STADIUM ROAD WATERLINE REPLACEMENT TITLE SHEET		
	CLEN H. PTCM FILEN	Encompass Consultant Group 333 N. LANTANA ST, SUITE 287, CAMARILLO, CA 93010	MOORPARK COLLEGE MOORPARK, CA		
REVIEWED BY:	2 Charles and a start	PHONE: 805.322.4443 WEBSITE: WWW.ECGCIVIL.COM	SCALE: HORIZ. 20 VERT. VERT		
DATE DATE	ATE OF CALLEON	GLEN H. PACE DATE: 07/05/2019 PROJECT ENGINEER R.C.E. 61,468	WORK ORDER 0075.05 DRAWN BY: JEA CHECKED BY: GHP SHEET NO. <u>1</u> OF <u>4</u>		



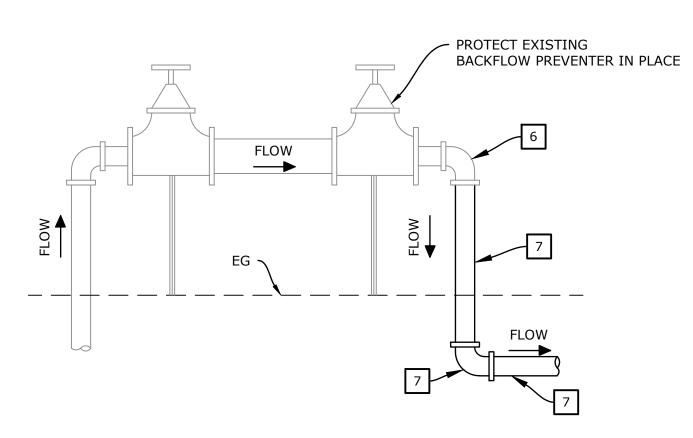
- THE GENERAL CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AND NOTIFY APPROPRIATE UTILITY AGENCIES TO VERIFY AND LOCATE ALL EXISTING UNDERGROUND UTILITIES BEFORE COMMENCING ANY EXCAVATION
- 2. THE GENERAL CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY ALL EXISTING UTILITIES, POINT OF CONNECTIONS AND CROSSINGS. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE
- 3. THE LOCATIONS OF EXISTING AND NEW UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY; ALI
- SOME IRRIGATION PIPING AND ELECTRICAL CONDUIT LOCATIONS AND SIZES ARE UNKNOWN AND NOT
- 5. SUBSURFACE UTILITIES SHOWN HEREON HAVE BEEN COMPILED FROM RECORD INFORMATION GATHERED FROM VARIOUS 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 SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY 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.

- 1. DEMOLITION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO REMOVE EXISTING STRUCTURES, UTILITIES, AND ALL OTHER MATERIAL FROM THE PROJECT SITE.
- 2. DISPOSAL OF MATERIALS SHALL BE DONE IN A SAFE AND LEGAL MANNER AND SHALL BE IN ACCORDANCE WITH ALL STATE
- 3. 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.
- 4. EXISTING UNDERGROUND UTILITIES SHALL BE PROTECTED IN PLACE UNLESS OTHERWISE NOTED.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPLACE IN-KIND ANY ITEMS DAMAGED DURING THE DEMOLITION
- 6. SAWCUT EXISTING PAVEMENT FULL DEPTH TO A CLEAN STRAIGHT EDGE.





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BACKLFOW PREVENTER CONNECTION DETAIL



DEMOLITION NOTES

1 CUT EXISTING WATERLINE AT POINTS OF CONNECTION AND REMOVE EXISTING WATERLINE. CONTRACTOR SHALL RESPONSIBLY DISPOSE OF MATERIAL.

2 CUT EXISTING IRRIGATION MAINLINE AT POINTS OF CONNECTION AND ABANDON IN PLACE PER VENTURA COUNTY WATERWORKS STANDARD PLATE W-16.

3 CUT EXISTING IRRIGATION MAINLINE AT POINTS OF CONNECTION AND REMOVE EXISTING IRRIGATION MAINLINE. CONTRACTOR SHALL RESPONSIBLY DISPOSE OF MATERIAL.

4 CUT EXISTING WATERLINE AT POINTS OF CONNECTION AND ABANDON IN PLACE PER VENTURA COUNTY WATERWORKS STANDARD PLATE W-16.

5 SAWCUT TO PROPOSED UTILITY TRENCH LIMITS AS SHOWN PER PLAN AND DETAILS "B" AND "C" ON SHEET 1. COLD PLANE 12" BEYOND SAWCUT LIMITS TO A MINIMUM DEPTH OF 1.5".

6 PROTECT EXISTING UTILITY IN PLACE.

7 REMOVE EXISTING GALVANIZED STEEL WATERLINE, FITTINGS, AND APPURTENANCES TO NEAREST PROTECT JOINT. CONTRACTOR SHALL RESPONSIBLY DISPOSE OF MATERIAL.

8 REMOVE EXISTING GATE OR BALL VALVE. CONTRACTOR SHALL RESPONSIBLY DISPOSE OF MATERIAL.

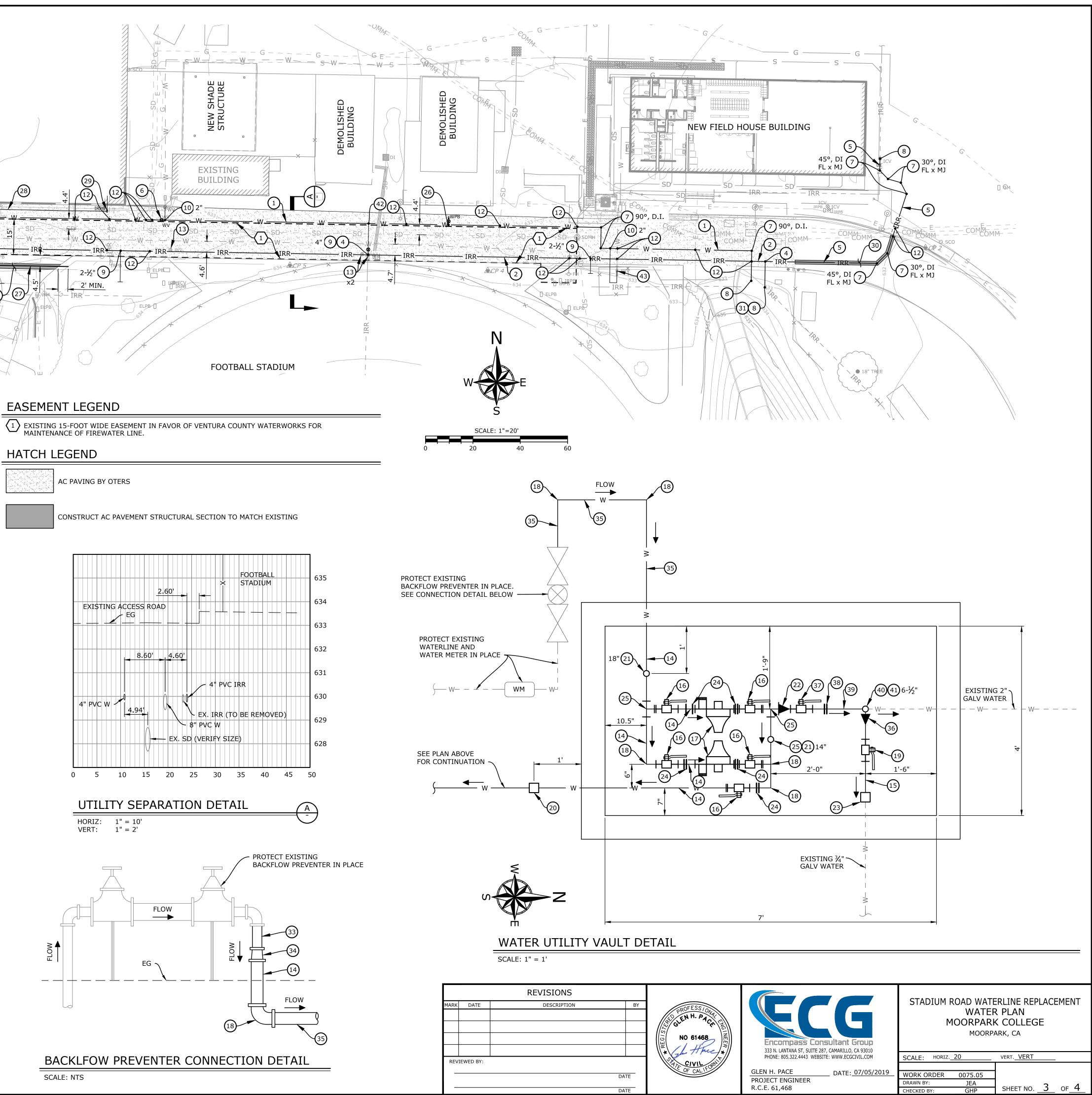
9 REMOVE EXISTING PRESSURE REDUCING VALVE. CONTRACTOR SHALL RESPONSIBLY DISPOSE OF MATERIAL.

EASEMENT LEGEND

1 EXISTING 15-FOOT WIDE EASEMENT IN FAVOR OF VENTURA COUNTY WATERWORKS FOR MAINTENANCE OF FIREWATER LINE.

SEE VAULT DETAIL, HEREON				
W - W - IR - IRR	IRR IRR 12 12 12 12 12 12 12 12 12 12			
CONSTRUCTION NOTES				
 CONSTRUCT 4" C900 CL 235 PVC WATERLINE PER TRENCH DETAIL "A", SHEET 1. NO JOINTS OVER SEWER CRCC CONSTRUCT 4" C900 CL 235 PVC IRRIGATION MAINLINE PER TRENCH DETAIL "A", SHEET 1. NO JOINTS OVER SEWER CROSSING 4' ON EACH SIDE. INSTALL 4" DUCTILE IRON TEE AND CONCRETE THRUST BLOCK PER VENTURA COUNTY WATERWORKS STANDA 				
4 INSTALL 4" DUCTILE IRON TEE AND CONCRETE THRUST BLOCK PER VENTURA COUNTY WATERWORKS STANDA FLANGE x MECHANICAL JOINT ON ALL SIDES. LEEMCO EPOXY COATED OR APPROVED EQUAL.	RD PLATES W-15 AND W-19.			
5 CONSTRUCT 4" C900 CL 235 PVC IRRIGATION MAINLINE PER TRENCH DETAIL "B", SHEET 1. NO JOINTS OVER SEWER CROSSING 4' ON EACH SIDE.				
 (6) CONSTRUCT 4" RESILIENT WEDGE GATE VALVE WITH VALVE BOX PER VENTURA COUNTY WATERWORKS PER ST (7) CONSTRUCT HORIZONTAL BENDS WITH CONCRETE THRUST BLOCK PER VENTURA COUNTY WATERWORKS STATE 				
 AND MATERIAL PER PLAN. LEEMCO EPOXY COATED OR APPROVED EQUAL. CONNECT TO EXISTING WATERLINE/IRRIGATION MAILINE. 				
9 POINT OF CONNECTION TO IRRIGATION LATERAL. CONSTRUCT PVC CL 315 IRRIGATION LATERAL WITH END CAP. DIAMETER PER PLAN.				
 (10) POINT OF CONNECTION TO WATER LATERAL. CONSTRUCT SCH 80 PVC WATER LATERAL. DIAMETER PER PLAN. (11) CONSTRUCT SEWER CROSSING PER DETAIL "C", SHEET 1 AND VENTURA COUNTY SEWER MANUAL, APPENDIX II. WATERLINE SHALL NOT 				
 HAVE JOINTS WITHIN 4' ON EACH SIDE OF SEWER LINE. CONSTRUCT UTILITY CROSSING PER VENTURA COUNTY WATERWORKS STANDARD PLATE W-18. CONTRACTOR SHALL POTHOLE ALL UTILITY CROSSINGS TO VERIFY SIZE, DEPTH, AND LOCATION AND SHALL THE ENGINEER OF ANY PROPOSED UTILITY CONFLICTS. 				
13 REPLACE IRRIGATION GATE VALVE AS NECESSARY PER VENTURA COUNTY WATERWORKS STANDARD PLATE W-				
 (14) CONSTRUCT 3" GALVANIZED STEEL PIPE WATERLINE. (15) CONSTRUCT 3/4" GALVANIZED STEEL PIPE WATERLINE. 				
 (15) CONSTRUCT 5/4 GALVANIZED STELLET IT E WATERCINE. (16) INSTALL 3" DUCTILE IRON BALL VALVE WITH INSULATION KIT. 				
17 INSTALL 3" PRESSURE REDUCING VALVE WITH INSULATION KIT.				
 (18) CONSTRUCT 3" GALVANIZED STEEL ELBOW. (19) INSTALL 3/4" DUCTILE IRON BALL VALVE WITH INSULATION KIT. 				
20 INSTALL 3" GALVANIZED STEEL FEMALE-FEMALE THREADED JOINT OR GALVANIZED STEEL COMPRESSION JOIN NON-THREADED OR PLASTIC PIPE.	NT IF CONNECTING TO			
21) CONSTRUCT 3" GALVANIZED STEEL RISER WITH TWO GALVANIZED STEEL ELBOWS. RISER LENGTH PER PLAN.				
22 CONSTRUCT 3" x 2" GALVANIZED STEEL REDUCER. IF OTHER METAL IS USED INSTALL WITH INSULATION KIT.				
(23) INSTALL 3/4" GALVANIZED STEEL FEMALE-FEMALE THREADED JOINT OR GALVANIZED STEEL COMPRESSION JO NOT THREADED.	DINT IF EXISTING PIPE IS			
 (24) CONSTRUCT 3" GALVANIZED STEEL UNION FITTING. (25) CONSTRUCT 3" GALVANIZED STEEL TEE. 				
 CONSTRUCT 3-FOOT, 2" SCH 80 PVC WATER LATERAL WITH RESILIENT WEDGE GATE VALVE AND BROOKS 3ME WITH TRAFFIC RATED LID OR APPROVED EQUAL. CAP END OF LATERAL FOR FUTURE CONNECTION. 	CONCRETE METER BOX			
(27) CONSTRUCT 3" SCH 40 PVC IRRIGATION CONTROL WIRE CONDUIT PER DETAIL "D", SHEET 1. ENDS OF CONDU	JIT SHALL EXTEND 2 FEET			
 BEYOND THE EXISTING BACK OF CURB. CAP BOTH ENDS OF CONDUIT FOR FUTURE USE. (28) CONSTRUCT 1" SCH 40 PVC IRRIGATION CONTROL WIRE CONDUIT PER DETAIL "D", SHEET 1. 				
29 INSTALL J&R CONCRETE NO 3-1/2-T SERIES PULL BOX WITH H-20 COVER OR APPROVED EQUAL.				
30 CONSTRUCT AC PAVEMENT STRUCTURAL SECTION TO MATCH EXISTING (3" AC OVER 6" AB MIN).				
 (31) INSTALL 4" MEGA-COUPLING RESTRAINED JOINT SERIES 3804, OR APPROVED EQUAL. (32) CONSTRUCT 1-1/4" SCH 40 PVC IRRIGATION LINE PER TRENCH DETAIL "B", SHEET 1. 				
 (33) CONSTRUCT 2-1/2" GALVANIZED STEEL PIPE WATERLINE. 				
34 INSTALL 2-1/2" x 3" GALVANIZED STEEL REDUCER.				
 (35) CONSTRUCT 3" GALVANIZED STEEL PIPE WATERLINE PER TRENCH DETAIL "B", SHEET 1. (36) CONSTRUCT 2" x ¾" GALVANIZED STEEL REDUCER. IF OTHER METAL IS USED INSTALL WITH INSULATION KIT. 				
(37) INSTALL 2" DUCTILE IRON BALL VALVE WITH INSULATION KIT.				
38 CONSTRUCT 2" GALVANIZED STEEL UNION FITTING.				
 (39) CONSTRUCT 2" GALVANIZED STEEL PIPE WATERLINE. (40) CONSTRUCT 2" GALVANIZED STEEL TEE. 				
 (40) CONSTRUCT 2 GALVANIZED STEEL TEE. (41) CONSTRUCT 2" GALVANIZED STEEL RISER WITH TWO GALVANIZED STEEL ELBOWS. RISER LENGTH PER PLAN. 				
CONSTRUCT 2 ⁻ GALVANIZED STEEL RISER WITH TWO GALVANIZED STEEL ELBOWS. RISER LENGTH PER PLAN.				

(43) CONNECT TO EXISTING BACKFLOW DEVICE.

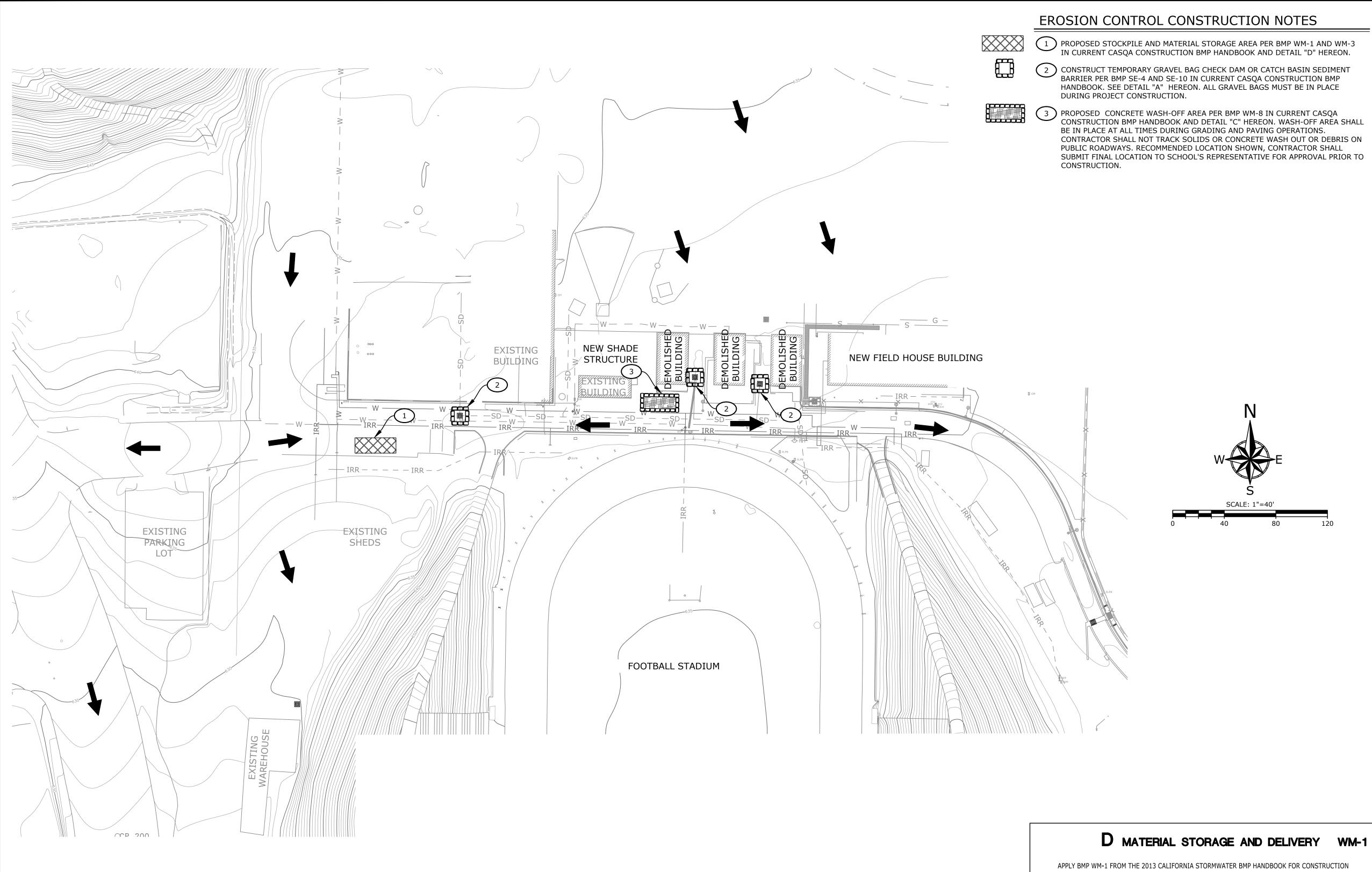


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DATE

PROJECT ENGINEER

R.C.E. 61,468

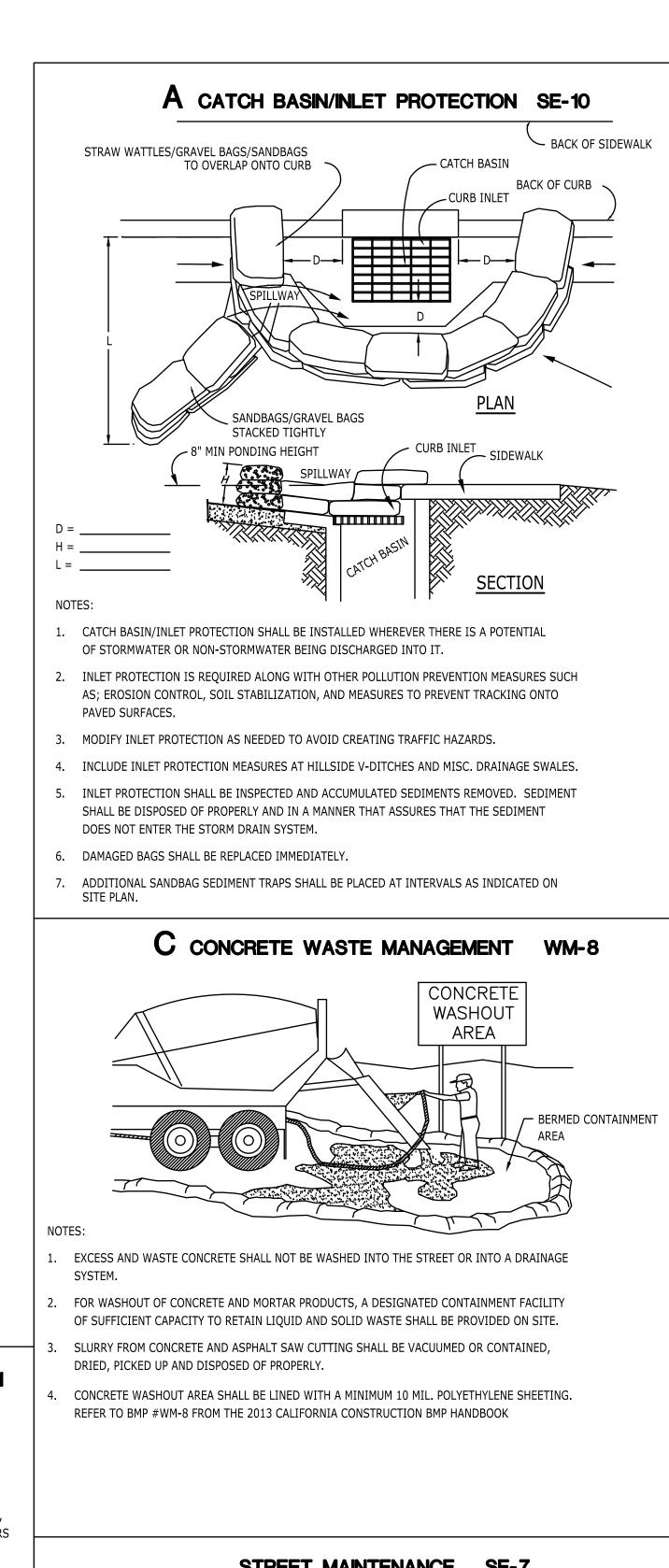


AVAILABLE AT www.cabmphandbooks.com.

MINIMUM REQUIREMENTS FROM WM-1:

- MATERIAL DELIVERY AND STORAGE AREAS SHOULD BE LOCATED NEAR THE CONSTRUCTION ENTRANCES, AWAY FROM WATERWAYS OR DRAINAGE PATHS. PREFERRED METHOD OF MATERIAL STORAGE IS INDOORS WITHIN EXISTING STRUCTURES OR SHEDS WHEN AVAILABLE. AT A MINIMUM, MATERIAL STORAGE AREA SHALL BE SURROUNDED WITH PROTECTIVE BERMS.
- MATERIALS SHOULD BE STORED IN THEIR ORIGINAL CONTAINERS AND THE ORIGINAL PRODUCT LABELS SHOULD BE MAINTAINED IN PLACE IN A LEGIBLE CONDITION.
- MATERIALS SHOULD BE STORED ON PALLETS AND SHOULD NOT BE ALLOWED TO ACCUMULATE ON THE GROUND. SECONDARY CONTAINMENT SHALL BE PROVIDED, WHEN POSSIBLE, TO PROVIDE PROTECTION FROM WIND AND RAIN, MATERIALS SHOULD BE COVERED DURING NON-WORKING DAYS AND PRIOR TO AND DURING RAIN OR WIND EVENTS.
- 4. EMPLOYEES AND SUBCONTRACTORS SHALL BE TRAINED ON PROPER MATERIAL DELIVERY AND STORAGE PRACTICES AND IN EMERGENCY SPILL CLEANUP PROCEDURES.

	REVISIONS		
MARK DATE	DESCRIPTION	BY	PROFESSION
			GLEN H. PACA
REVIEWED BY:			* The Africe *
		DATE	TE OF CALIFOR
		DATE	



STREET MAINTENANCE SE-7

- 1. REMOVE ALL SEDIMENT DEPOSITED ON PAVED ROADWAYS IMMEDIATELY.
- 2. SWEEP PAVED AREAS THAT RECEIVE CONSTRUCTION TRAFFIC WHENEVER SEDIMENT BECOMES VISIBLE.
- 3. <u>PAVEMENT WASHING WITH WATER IS PROHIBITED</u> IF IT RESULTS IN A DISCHARGE TO THE STORM DRAIN SYSTEM.

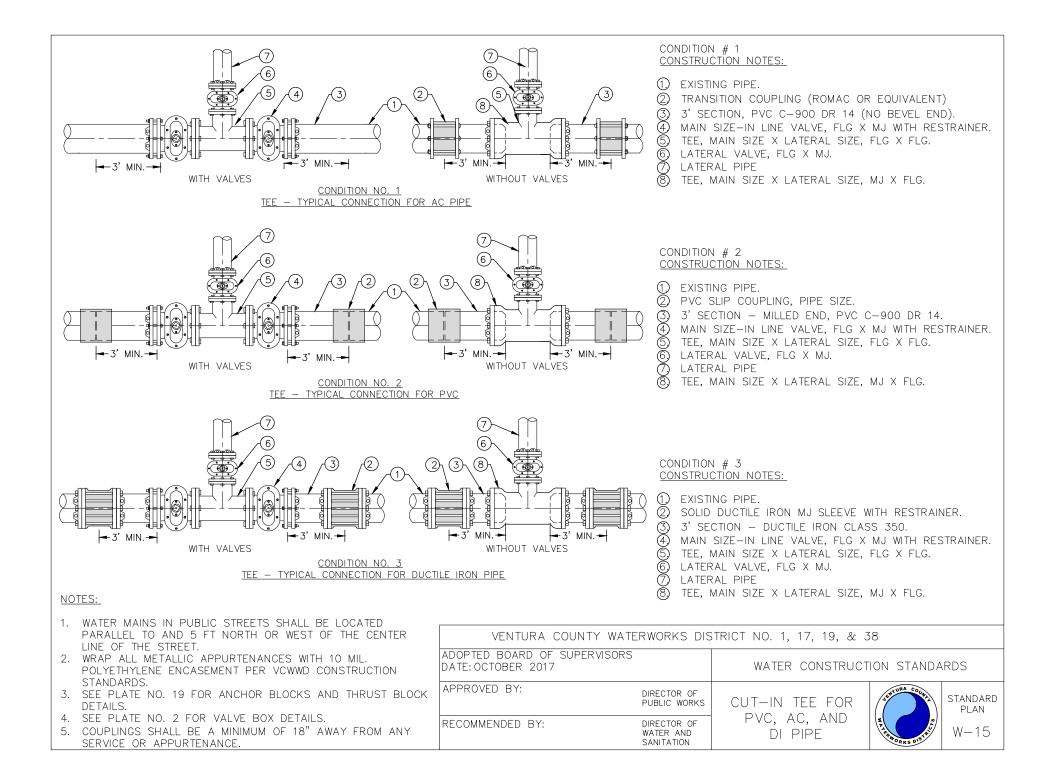


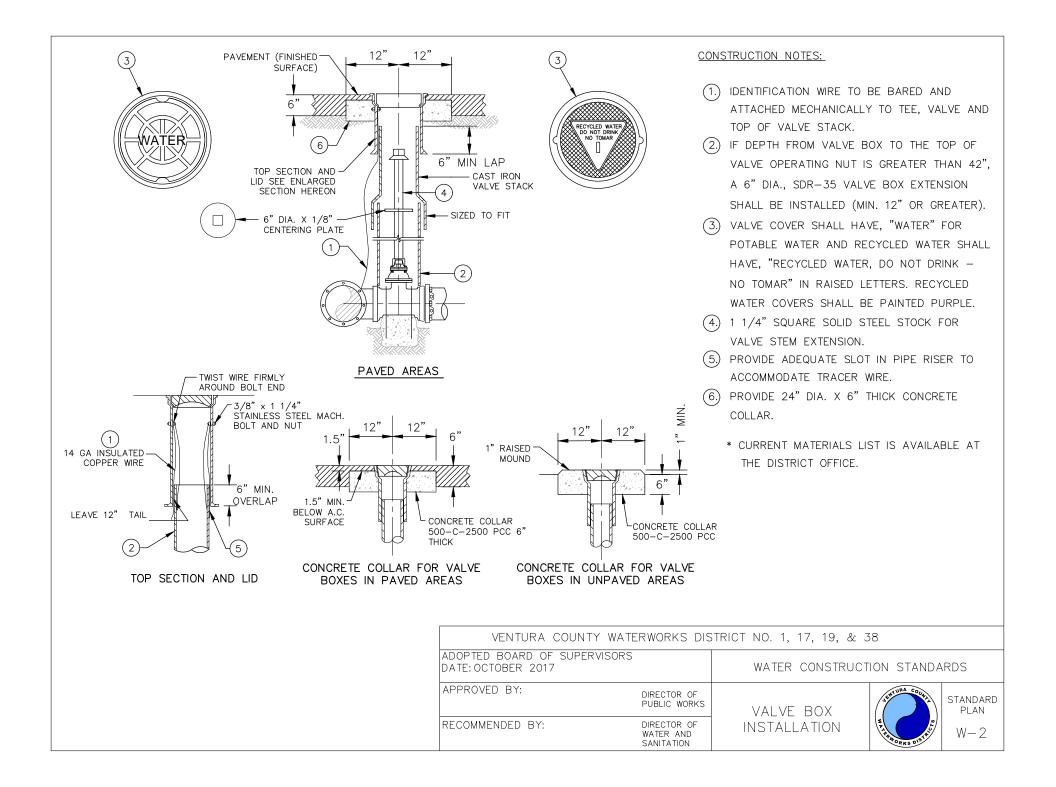
PROJECT ENGINEER R.C.E. 61,468

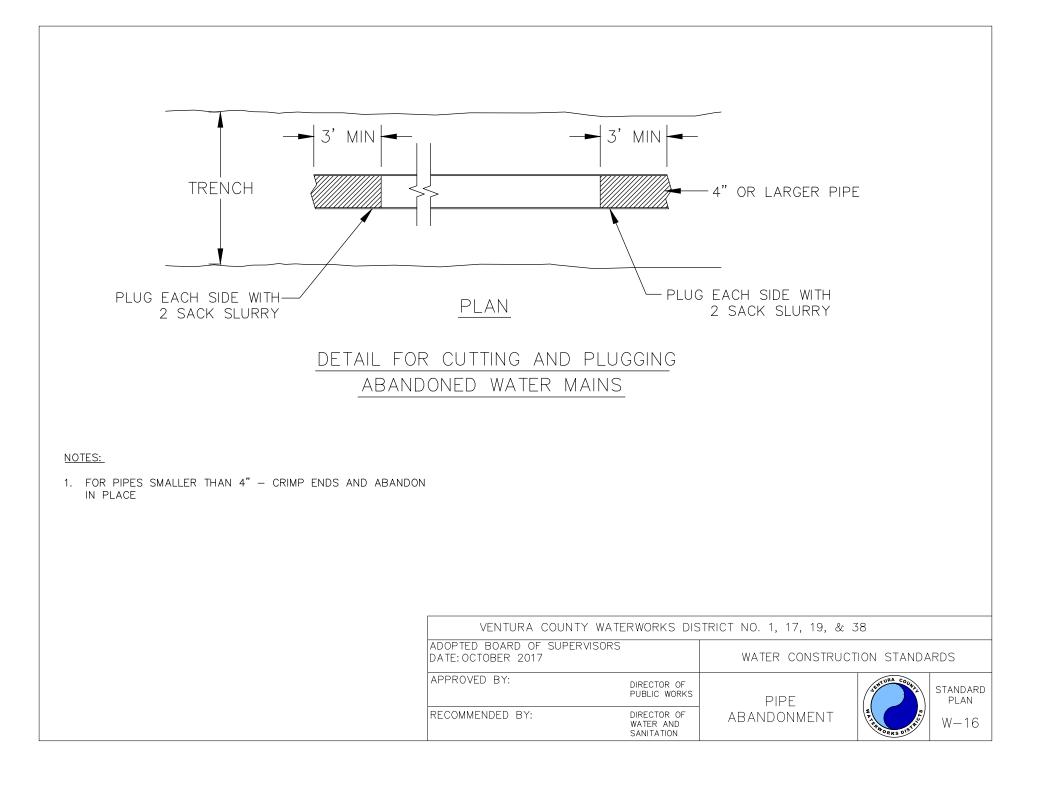
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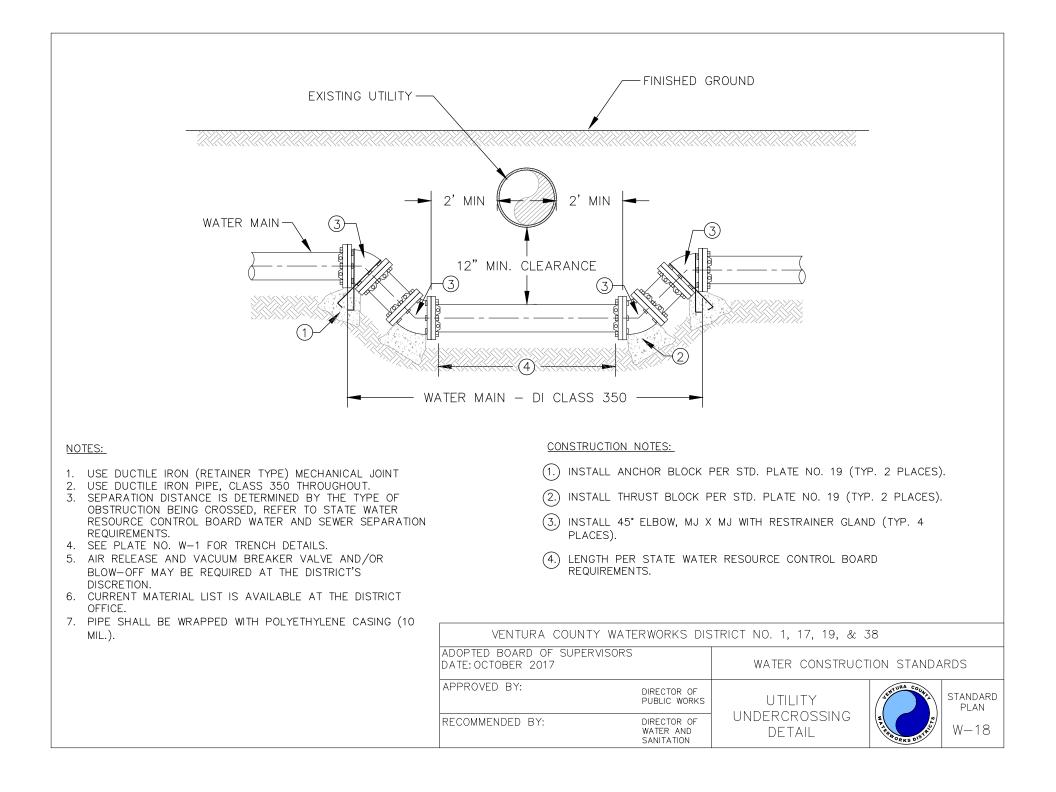
STADIUM ROAD WATERLINE REPLACEMENT
EROSION CONTROL PLAN
MOORPARK COLLEGE
MOORPARK, CA

, CAMARILLO, CA 93010					
E: WWW.ECGCIVIL.COM	SCALE: HORIZ. 40		VERT. <u>VERT</u>		
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	DRAWN BY:	JEA		Λ	- 1
	CHECKED BY:	GHP	SHEET NO.	4	OF <u>4</u>









	THRUST BLOCKING	 NOTES: 1. BEARING AREA SHOWN ABOVE BASED ON SOIL CONSISTING OF SAND AND GRAVEL CEMENTED WITH CLAY - SAFE BEARING LOAD = 2000 PSF. 2. FOR SOFT CLAY MULTIPLY AREA X 4.0. FOR SAND MULTIPLY AREA X 2.0. 3. FOR SAND AND GRAVEL MULTIPLY AREA X 1.5. FOR SHALE, SANDSTONE, OR CONGLOMERATE MULTIPLY AREA X 0.4. 4. IN NO CASE SHALL THE THRUST BLOCK CONTAIN LESS THAN 3 CUBIC FEET OF CONCRETE. THRUST BLOCK SHALL BEAR ON UNDISTURBED EARTH. 5. DO NOT INTERPOLATE BEARING AREA FOR FITTINGS NOT SHOWN. 6. ANCHOR IS NOT REQUIRED FOR 6" VALVES OR SMALLER. 7. COAT REBARS WITH APPROVED BITUMASTIC COMPOUND. 8. FOR FLANGED AND MECHANICAL VALVES, KEEP CONCRETE OFF BOLTS. 9. CONCRETE SHALL BE 500-C-2500PCC 10. RESTRAIN ALL JOINTS FOR SLOPES 30 DEGREES OR STEEPER. 11. DEAD ENDS SHALL HAVE A 3' PUP WITH AN MJ CAP. 12. THRUST BLOCK BEARING AREA BASED ON 225 PSI LINE PRESSURE WITH 3'-0" COVER MINIMUM.
END OF LINE	TRENCH TRENCH BOTTOM U 500-C-2500 PCC U U U U U U U U U U U U U	VERTICAL BEND ANCHOR PIPE 22 1/2" BEND L, H, AND W (IN) VOLUME (YD") THRUST (LBS) 45" BEND L, H, AND W (IN) VOLUME (YD") THRUST (LBS) 4" 26 0.4 1104 32 0.7 2165 6" 34 0.8 2483 42 1.6 4871 8" 41 1.5 4414 51 2.8 8659 10" 47 2.2 6897 59 4.4 13529 12" 53 3.2 9932 67 6.4 19482 16" 64 5.6 17657 81 11.4 34635
#4 REINFORCING BARS IMBEDDED 6" MIN (SEE NOTE 7)	VALVE ANCHOR PIPE 11 1/4" BEND 22 1/2" BEND SIZE L H AREA THRUST L H AREA (IN) (IN) (IN) (IS) (IN) (IN) (IN) (IS) (IBS) 4" 12 6 72 554 16 8 128 1104 6" 17 9 153 1248 24 12 288 2483 8" 23 12 276 2218 32 16 512 4414 10" 29 15 435 3465 40 20 800 6897 12" 34 17 578 4990 48 24 1152 9932 16" 46 23 1058 8871 64 32 2048 17657 18" 51 26 1326 11228 72 36 2592 22347	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$
AREA OF THRUST DEVICE TO BE APPROVED BY THE DISTRICT ENGINEER FOR THIS TYPE OF APPLICATION <u>ANCHOR BLOCK</u>	VENTURA COUNT ADOPTED BOARD OF SUPER DATE: OCTOBER 2017 APPROVED BY: RECOMMENDED BY:	TY WATERWORKS DISTRICT NO. 1, 17, 19, & 38 RVISORS WATER CONSTRUCTION STANDARDS DIRECTOR OF PUBLIC WORKS THRUST AND ANCHOR BLOCK DETAILS STANDARD PLAN DIRECTOR OF WATER AND SANITATION THRUST AND ANCHOR BLOCK DETAILS STANDARD W-19