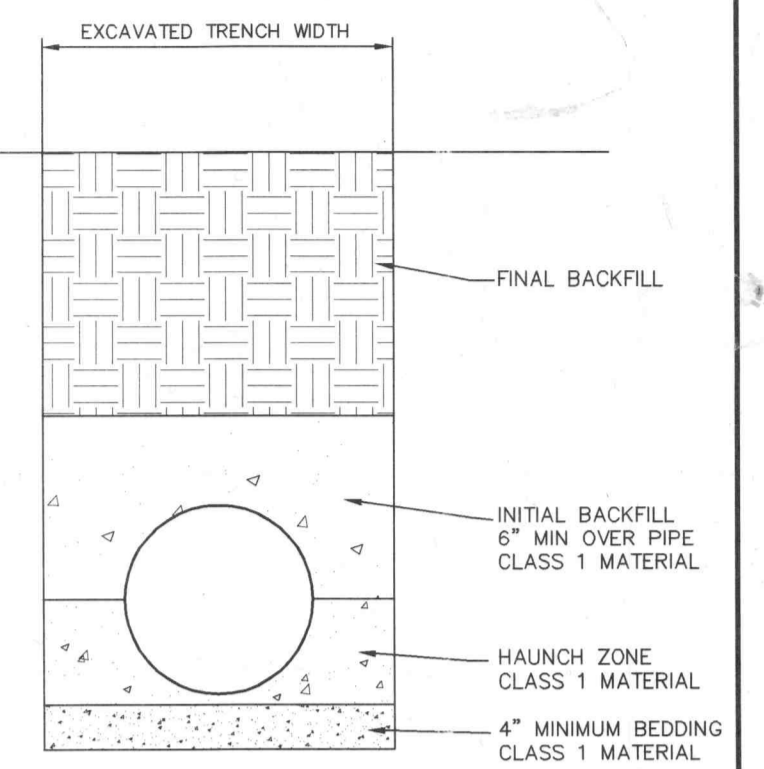
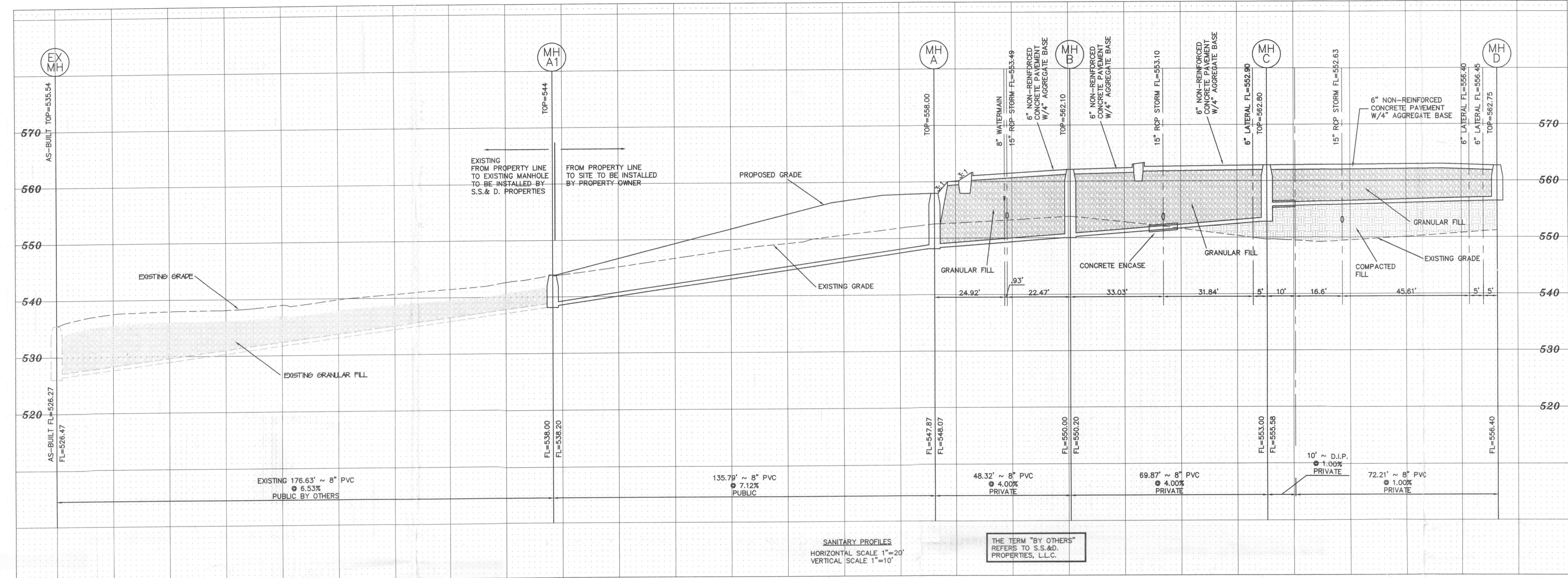


**PERUQUE CROSSING  
PHILLIPS 66**

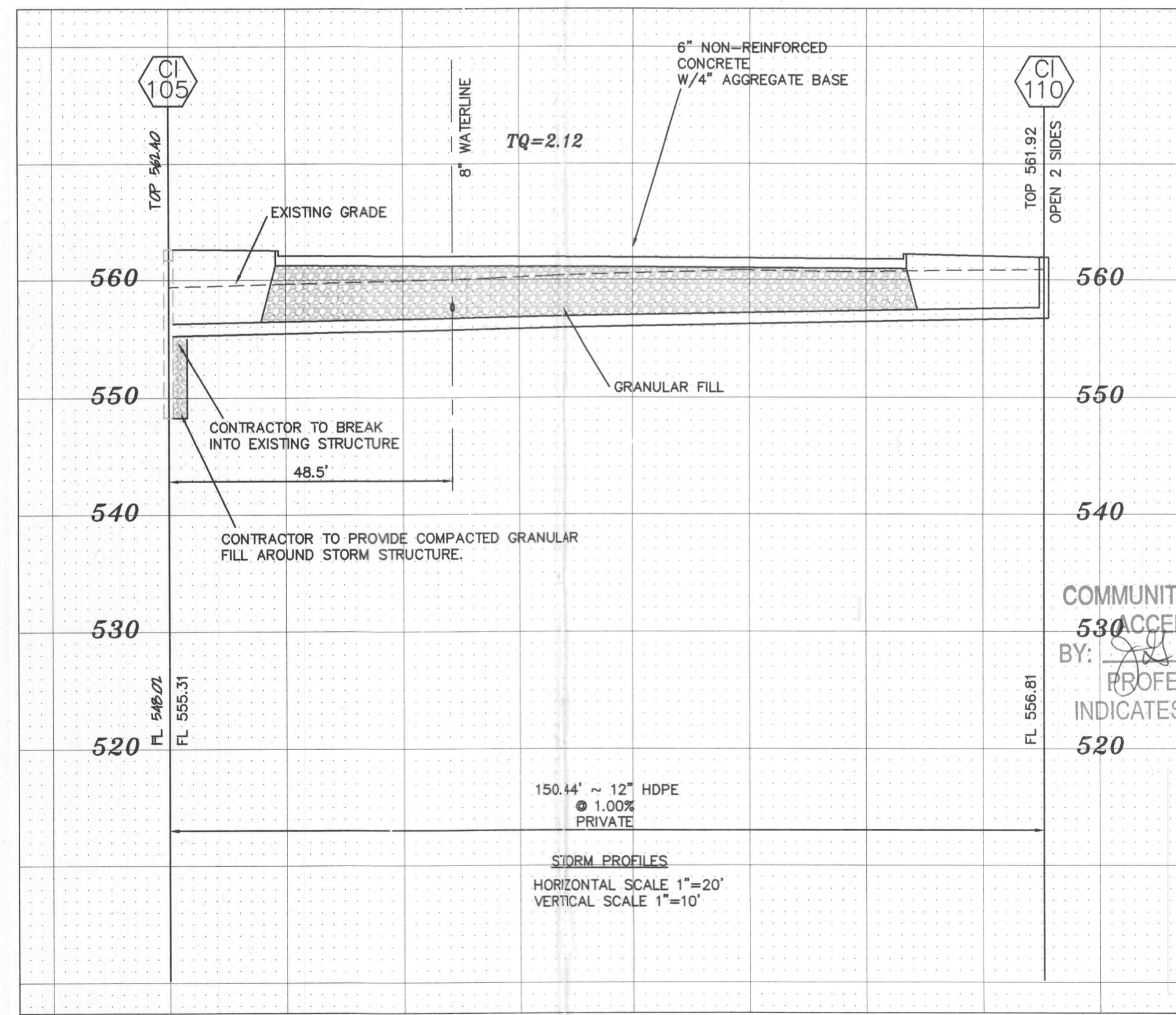
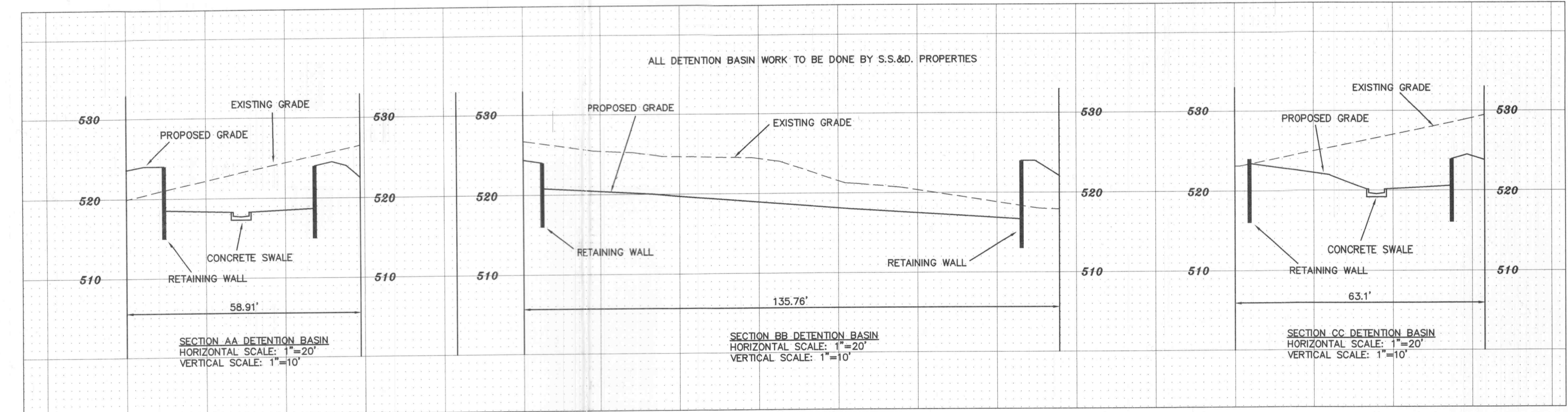
00-11282M 6-12-06  
 9-21-06 CITY COMMENTS 10-25-06 LIGHTING  
 10-24-06 CITY COMMENTS 11-14-06 CITY COMMENTS  
 4-09-07 PWSD#2 COMMENTS  
 4-09-07 MDDOT COMMENTS  
 9-26-07 STORM TO HDPE CLIENT

RECEIVED  
 SEP 27 2007

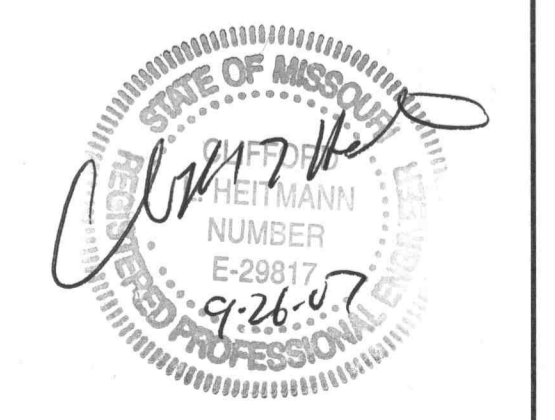


- The use of High Density Polyethylene Corrugated pipe A.D.S. N12 or Equal will be permitted as an acceptable alternative to reinforced concrete pipe. Pipe shall meet A.S.T.M. D-2321 and AASHTO M-294-92. Concrete flored end sections and inlet structures shall be required. Pipe must have smooth interior wall and is not to be used inside the Public Right-of-Way.
- In typical conditions the minimum trench width is determined by the size of the pipe and the ability to get compaction equipment between the pipe and the trench walls. The minimum trench width should not be less than the outside diameter plus 16 inches or the pipe outside diameter times 1.25 plus 12 inches, whichever is greater. High speed trenchers may enable satisfactory installation of pipe in narrower trenches. Poor insitu soil conditions such as peat, muck, running sands, or expansive clays will require substantially wider backfill as well as deeper foundation and bedding. Trench width and foundation depth should be based on a thorough site investigation.
- Backfill in the area up to the springline should be carefully placed and compacted to achieve a minimum E value of 1,000 psi as detailed in ASTM D2321. A minimum of 12\"/>

**H.D.P.E. PIPE DETAIL**



CITY OF O'FALLON  
 COMMUNITY DEVELOPMENT DEPARTMENT  
 530 ACCEPTED FOR CONSTRUCTION  
 BY: [Signature] DATE: 10-4-07  
 PROFESSIONAL ENGINEER'S SEAL  
 INDICATES RESPONSIBILITY FOR DESIGN



BAX PROJECT NAME : PHILLIPS 66 PERUQUE CROSSING  
 BAX PROJECT NO. : 00-11282M  
 DESIGN DATE : 9-20-06  
 DESIGNED BY : SWR  
 1.5 YEAR HYDRAULICS  
 SUBMITTED: 9-21-06 FILENAME: 11282M

UPP STR	LOW STR	L	DIA	UPPER FL LN	LOWER FL LN	PS	UPPER STP EL	DEPTH HY GR	UPPER HY EL	LOWER HY EL	HYDR GRADE	FR HEAD	VEL	VEL HEAD	JUNC LOSS	TURN LOSS	CURVE LOSS	STR GRADE	INL CAP	DR AREA	PI	Q	TQ	PIPE CAP	REMARKS
DC1110	CI1105	150	12	556.81	555.31	1.00	561.92	4.55	557.37*	556.31	.00350	0.53	2.70	0.11	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.12	3.56	1
DIS-2	CI1109	7	12	556.68	555.09	22.71	560.68	3.78	556.90*	556.09	.00180	0.01	1.95	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.53	16.98	2
CI108	CI1108	104	12	554.89	553.85	1.00	562.10	6.25	555.85	554.85	.00740	0.77	3.91	0.24	0.23	0.04	0.00	0.00	0.00	0.00	0.00	3.07	3.07	3.56	3
CI108	GI107	117	15	553.65	552.48	1.00	560.89	6.58	554.31*	553.73	.00300	0.35	2.88	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.53	6.46	4	
GI107	GI106	101	15	552.28	551.27	1.00	562.43	9.33	553.10	552.52	.00450	0.45	3.51	0.19	0.13	0.06	0.00	0.00	0.00	0.00	0.00	4.31	6.45	5	
CI106	CI105	92	15	551.07	550.15	1.00	562.10	9.79	552.31	551.40	.00760	0.70	4.58	0.33	0.21	0.04	0.00	0.00	0.00	0.00	0.00	5.62	6.46	6	
CI105	A1104	220	18	548.02	531.85	7.36	562.40	13.82	548.58*	533.35	.00620	1.35	4.66	0.34	0.36	0.41	0.00	0.00	0.00	0.00	0.00	8.24	28.49	7	
A1104	MH103	67	24	531.65	530.98	1.00	542.16	9.06	533.10	532.98	.00180	0.12	3.07	0.15	0.00	0.10	0.00	0.00	0.00	0.00	0.00	9.63	22.57	8	
MH103	FB102	73	24	522.00	519.80	3.03	539.00	16.18	522.82*	521.80	.00370	0.27	4.35	0.29	0.21	0.04	0.00	0.00	0.00	0.00	0.00	13.68	39.38	9	

\* INDICATES CRITICAL DEPTH  
 STORM PIPING MUST HAVE AT LEAST 1% SLOPE FOR PIPES.  
 ALL SEWER PIPING MUST HAVE AT LEAST 36" OF COVER ON TOP OF PIPE.

HDPE pipe is to be N-12WT or equal and to meet ASTM F1417 water tight field test.

UNDERGROUND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE THEIR LOCATIONS SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFICATION OF THE LOCATION OF ALL UNDERGROUND UTILITIES, EITHER SHOWN OR NOT SHOWN ON THESE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL BE LOCATED PRIOR TO ANY GRADING OR CONSTRUCTION OF THE IMPROVEMENTS.

CITY FILE NUMBER #2001.10.01

Bldg Inspector