

CYPRESS DRIVE STORM DRAIN

CONSTRUCTION PLANS

BERNALILLO COUNTY, NEW MEXICO

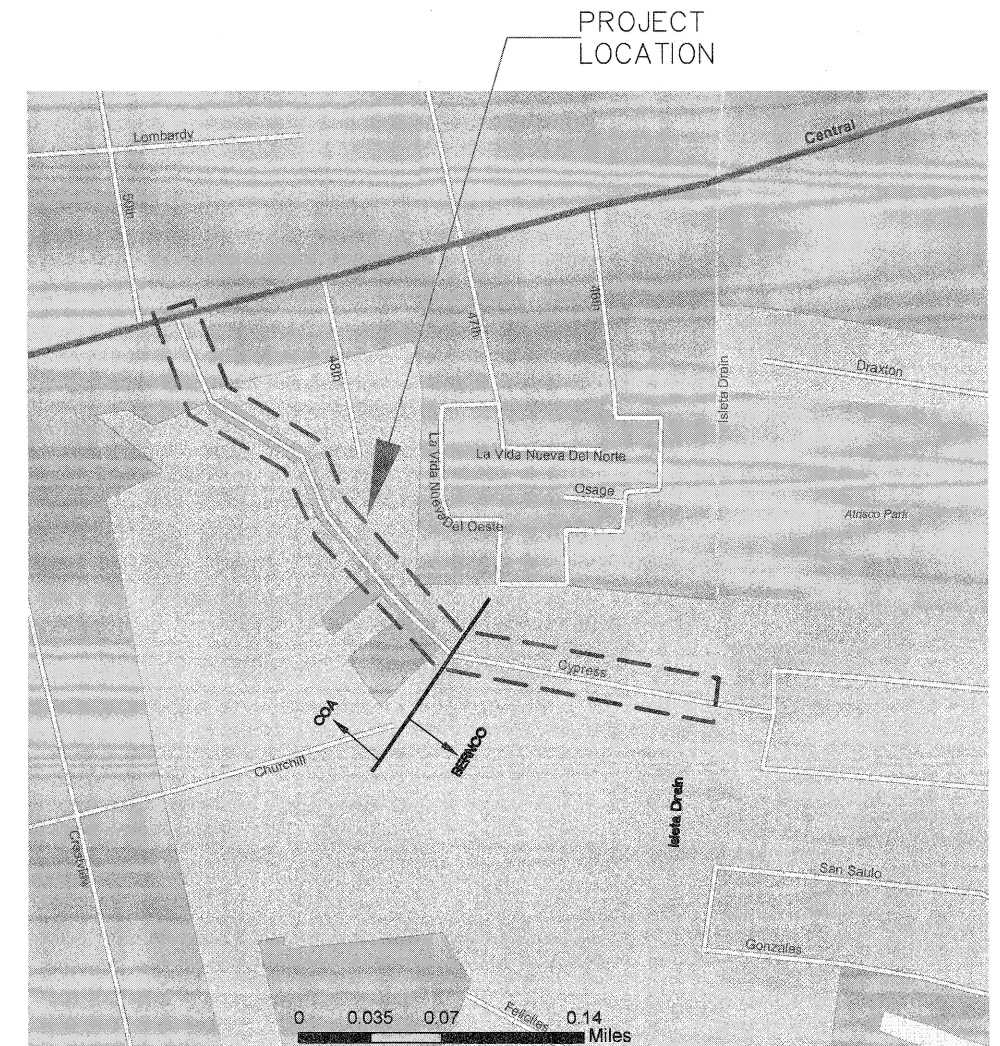


VICINITY MAP



INDEX OF SHEETS

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LOCATION MAP ZONE ATLAS K-11/K-12

RECORD DRAWINGS

Revisions by David Coops Date 12/21/16
 THESE RECORDS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF
 INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO
 REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OR
 COMPONENT, NOR MANNER OF CONSTRUCTION. THE ENGINEER
 WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS, WHICH
 HAVE BEEN INCORPORATED INTO THE DRAWINGS.



VERTICAL DATUM IS NAVD 88

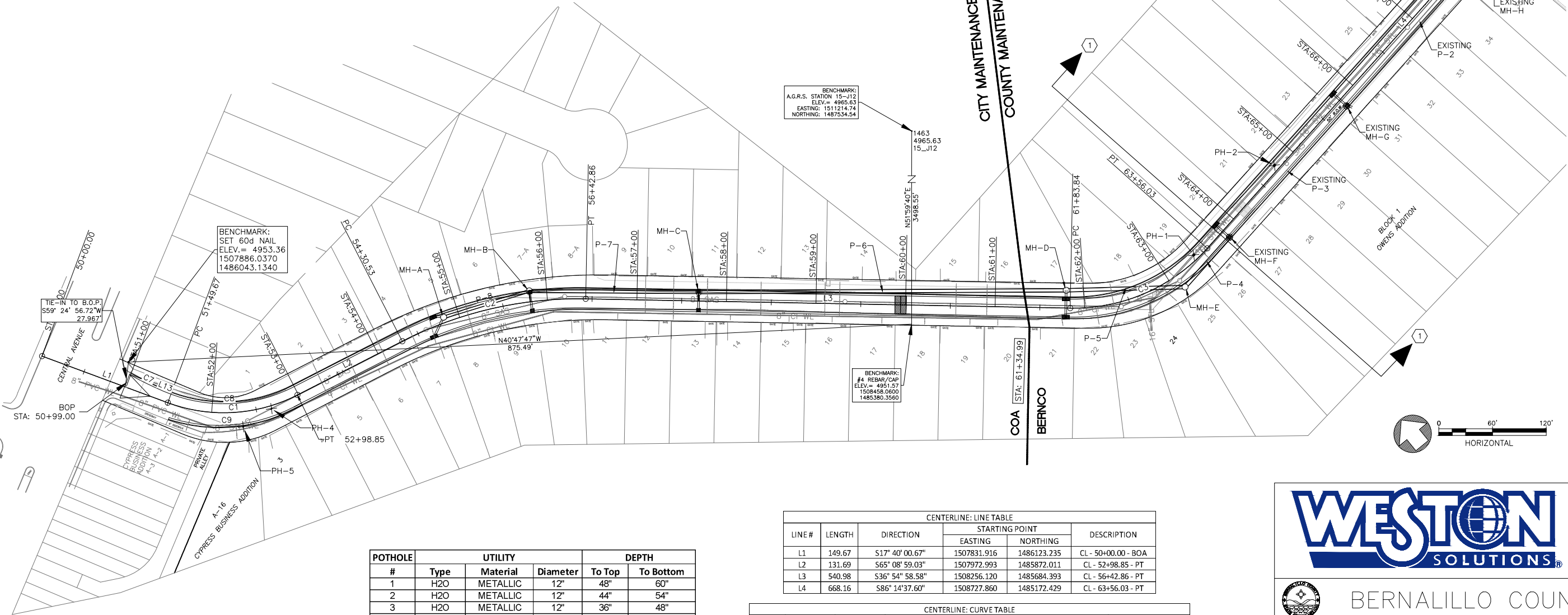
[illegible]

MANHOLE LOCATION TABLE				
MANHOLE ID	MANHOLE CENTER		PIPE ID	PIPE SLOPE
	N	E		
SD MH-A	1485796.776	1508142.105	P-8	0.26%
SD MH-B	1485739.513	1508224.172		
SD MH-C	1485589.692	1508339.773	P-7	0.25%
SD MH-D	1485267.685	1508593.944	P-6	0.25%
SD MH-E	1485165.322	1508678.576	P-5	0.36%
*SD MH-F	1485160.540	1508753.012	P-4	0.35%
*SD MH-G	1485147.895	1508948.915	*P-3	0.16%
*SD MH-H	1485133.810	1509197.533	*P-2	0.39%
SD MH-I	1485111.795	1509216.670	P-1	2.09%
PIPE OUTFALL	1485087.338	1509237.931	P-0	2.10%

NOTE: SEE PLAN AND PROFILE SHEETS FOR STA & OFFSETS
* EXISTING STRUCTURE OR PIPE INSTALLED DURING PHASE 1

KEYED NOTES:
1. CYPRESS DRIVE STATIONS 63+80.0 TO 68+27.2
BUILT PER PHASE I EXCEPT OUTFALL TO DRAIN.

NOTES:
A. BEARINGS ARE BASED ON GEODETIC NORTH FROM GPS OBSERVATIONS.
B. DISTANCES ARE HORIZONTAL GROUND MEASUREMENTS IN US FEET.
C. ELEVATIONS ARE BASED ON A.G.R.S. STATION "15-J12".
STATION ELEVATION: 4965.627, STATION EASTING: 1511214.74
STATION NORTHING: 1487534.54 (NAD-83/NAVD-88 DATUM).



#	Type	UTILITY		DEPTH	
		Material	Diameter	To Top	To Bottom
1	H2O	METALLIC	12"	48"	60"
2	H2O	METALLIC	12"	44"	54"
3	H2O	METALLIC	12"	36"	48"
4	SAS	CLAY TILE	8"	56"	
5	H2O	METALLIC	8"	21"	

NOTE: 12" WATERLINE MIGHT BE 16" AS SHOWN IN HISTORIC AS-BUILTS

CENTERLINE: LINE TABLE					
LINE #	LENGTH	DIRECTION	STARTING POINT		DESCRIPTION
			EASTING	NORTHING	
L1	149.67	S17° 40' 00.67"	1507831.916	1486123.235	CL - 50+00.00 - BOA
L2	131.69	S65° 08' 59.03"	1507972.993	1485872.011	CL - 52+98.85 - PT
L3	540.98	S36° 54' 58.58"	1508256.120	1485684.393	CL - 56+42.86 - PT
L4	668.16	S86° 14' 37.60"	1508727.860	1485172.429	CL - 63+56.03 - PT

CENTERLINE: CURVE TABLE							
CURVE #	DELTA	RADIUS	TANGENT	LENGTH	STARTING POINT		DESCRIPTION
					EASTING	NORTHING	
C1	S41° 24' 30"E	180	79.17	149.17	1507877.410	1485980.398	CL - 51+49.67 - PC
C2	S51° 01' 59"E	430.88	108.36	212.32	1508092.701	1485816.571	CL - 54+30.53 - PC
C3	S61° 34' 48"E	200	91.84	172.19	1508581.059	1485251.870	CL - 61+83.84 - PC

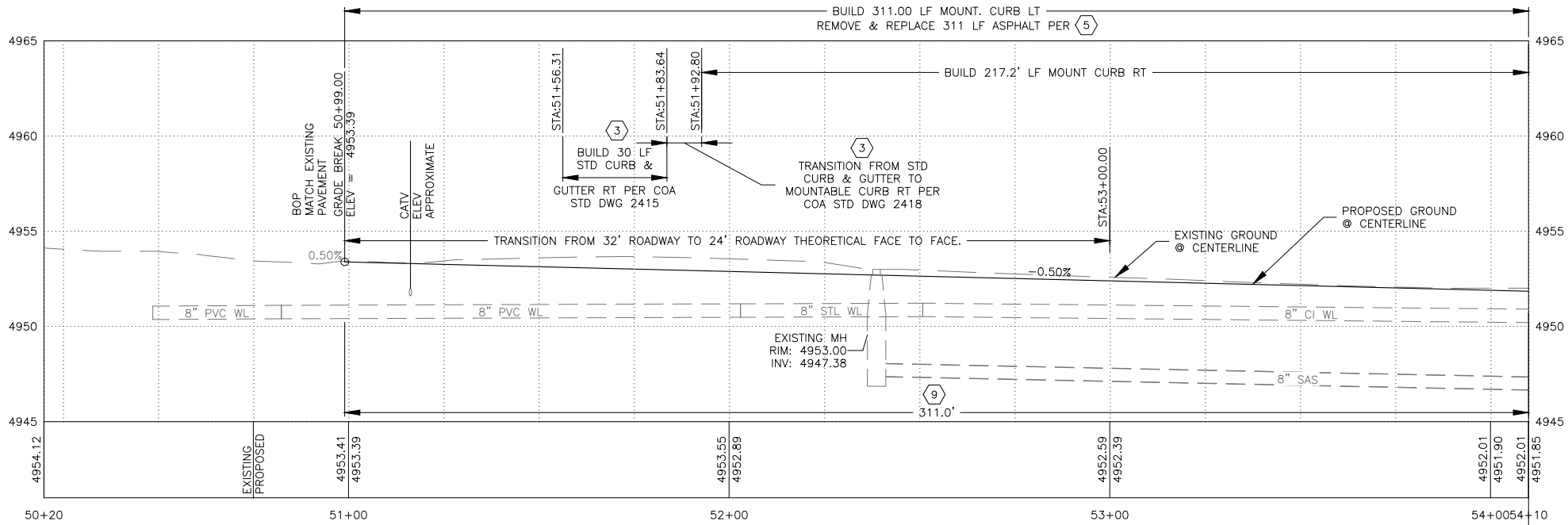
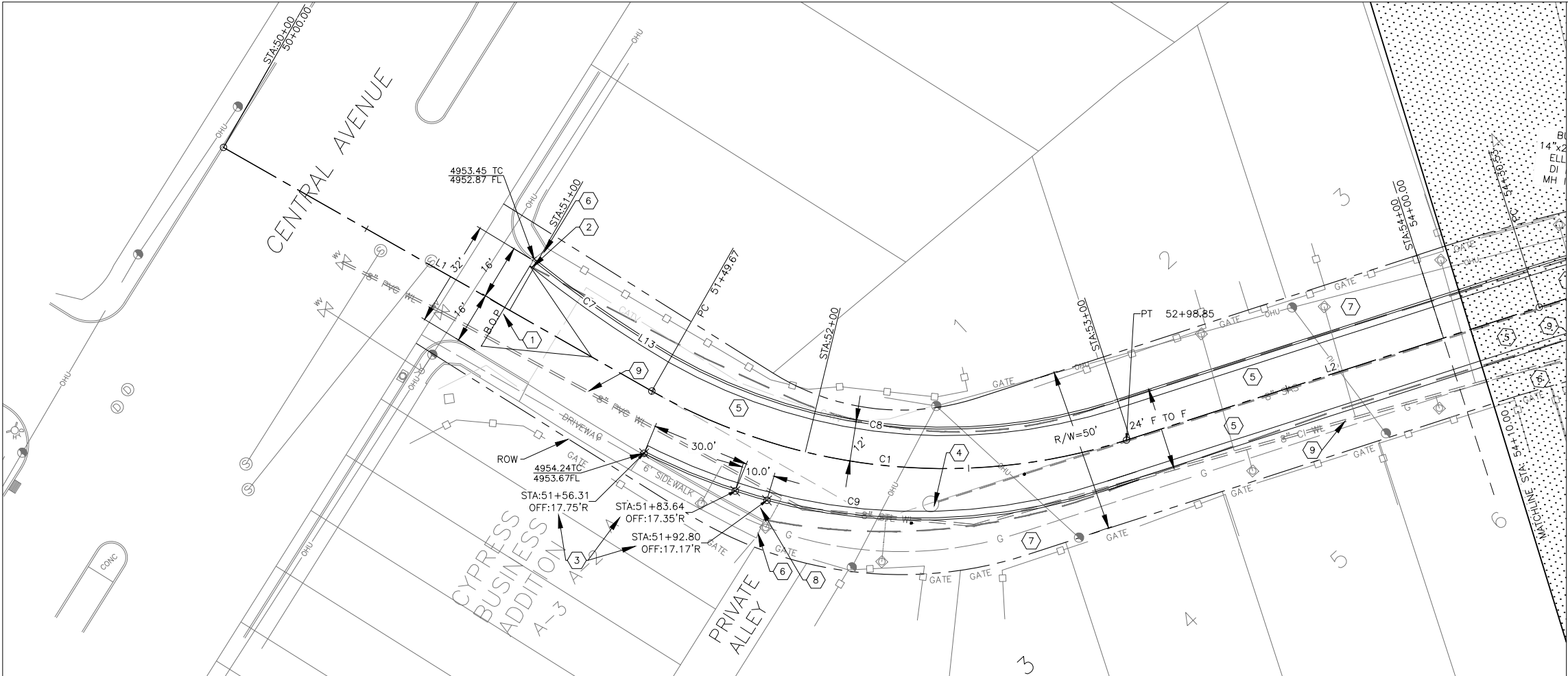


BERNALILLO COUNTY

CYPRESS DRIVE STORM DRAIN
SURVEY CONTROL

Design Review Committee		City Engineer Approval		Mo./Day/Yr.	
County Project No.		City Project No.		Zone Map No.	
20160006		601791		K-11/12	
				Sheet	
				3	
				Of	
				14	

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LEFT AND RIGHT MOUNTABLE CURB ALIGNMENT FROM BOP TO
STA: 52+98.55 CURB/ASPHALT INTERFACE

Line Table: Alignments		
Line #	Length	Direction
L13	2.93	S15° 00' 14.64"E

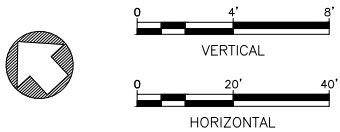
Curve Table: Alignments				
Curve #	Delta	Radius	Tangent	Length
C7	S11° 50' 34"E	357.09	19.72	39.40
C8	S40° 04' 37"E	169.37	79.24	148.23
C9	S40° 51' 02"E	180.00	81.76	153.48

GENERAL NOTES

- SEE SHEET 10 FOR PAVEMENT DETAILS
- WATERLINE IS IN FOREGROUND; HOWEVER IT IS SHOWN IN PROFILE FOR INFORMATIONAL PURPOSES.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES. UTILITY LOCATIONS SHOWN IN APPROXIMATE MANNER ONLY. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT COST OF UTILITY LINES DAMAGED IN THE COURSE OF CONSTRUCTION.
- CONSTRUCTION LIMITS/EASEMENTS ARE FROM FENCE LINE TO FENCE LINE. DO NOT DISTURB FENCE AND/OR WALL. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT COST OF FENCE AND/OR WALL DAMAGED IN THE COURSE OF CONSTRUCTION.
- SEE SHEET 3 FOR POTHOLE TABLE AND LINE AND CURB TABLES. SEE SHEET 9 FOR WATER/SEWER DETAILS.

KEYED NOTES

- SAWCUT PAVEMENT STA: 50+99.00 BEGIN TRANSITION FROM NO CROWN AT STA: 50+99.00 TO MIN. 1% CROWN AT STA: 51+24.00
- 10' TRANSITION FROM MOUNTABLE CURB TO EXISTING HANDICAP RAMP WITH STANDARD C & G INTERFACE.
- STA: 51+56.0 RT: REMOVE 1 SECTION OF EXISTING CURB AND GUTTER FROM JOINT (DO NOT DISTURB DRIVEPAD). CONSTRUCT 30 LF. STANDARD CURB AND GUTTER AND TRANSITION OVER 10' TO MOUNTABLE CURB.
- ADJUST MANHOLE ELEV. TO NEW GRADE. INCLUDE CONCRETE PAD PER COA STD DWG 2101. CONCRETE PAD INCIDENTAL TO ADJUSTMENT.
- REMOVE AND DISPOSE OF EXISTING ASPHALT FOR FULL STREET WIDTH.
- EXISTING SIDEWALK SHALL REMAIN IN PLACE. AT END OF EXISTING SIDEWALK, PROVIDE 6H:V MINIMUM TIE-IN GRADES TO EXISTING ELEVATION.
- GRADE TO DRAIN FROM FENCE LINE TO MOUNTABLE CURB. GRADE DRIVEWAYS TO MAINTAIN/RESTORE DRIVEWAY ACCESS. DO NOT DISTURB EXISTING UTILITY POLES OR SERVICES (INCLUDING WATER METERS).
- BACKFILL BETWEEN EXISTING AND NEW CURB AND GUTTER. GRADE TO DRAIN TO NEW ROADWAY.
- STA 50+99 TO STA 58+73.28 REMOVE AND REPLACE EXISTING WATERLINE WITH 8" PVC WATERLINE WITH MINIMUM OF 3' OF COVER. MATCH EXISTING AT STA. 58+73.28.

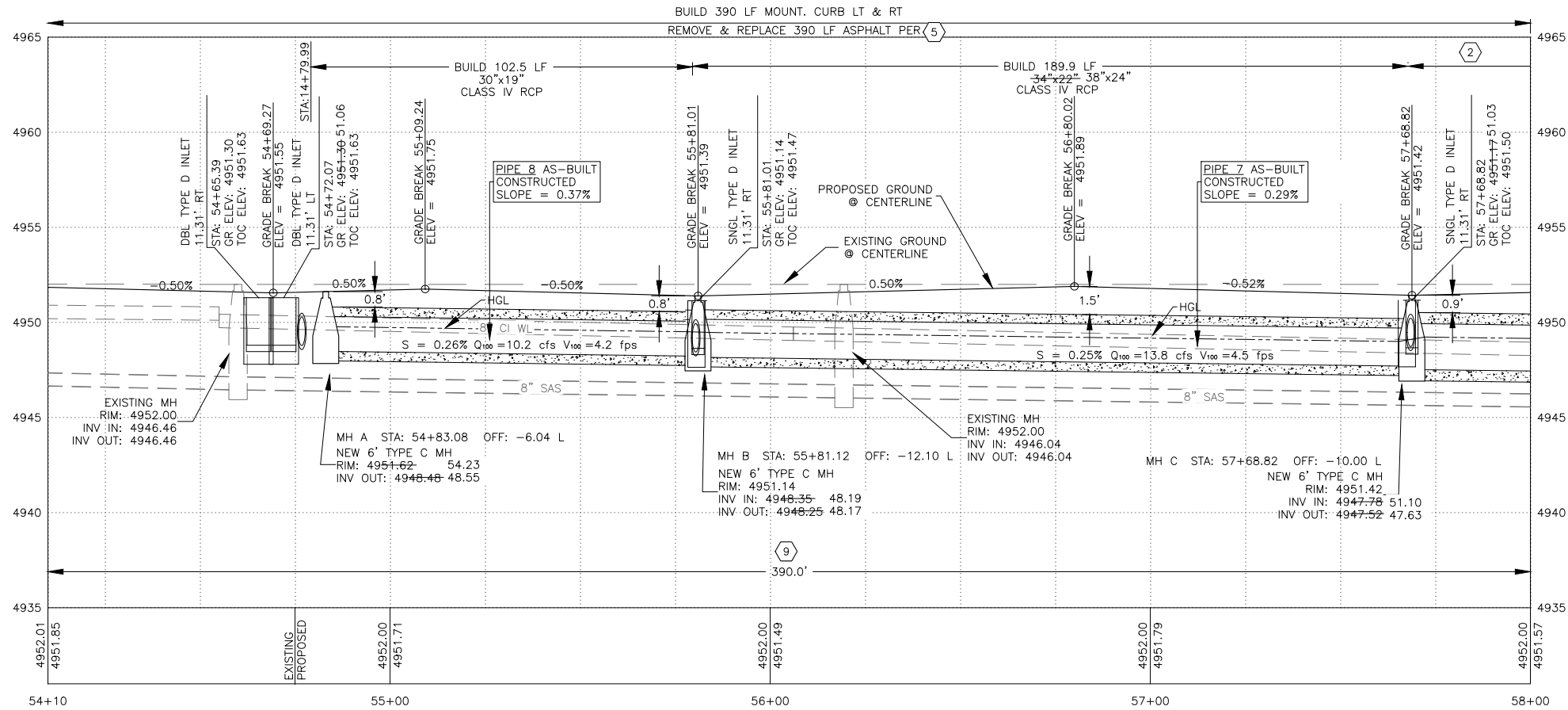
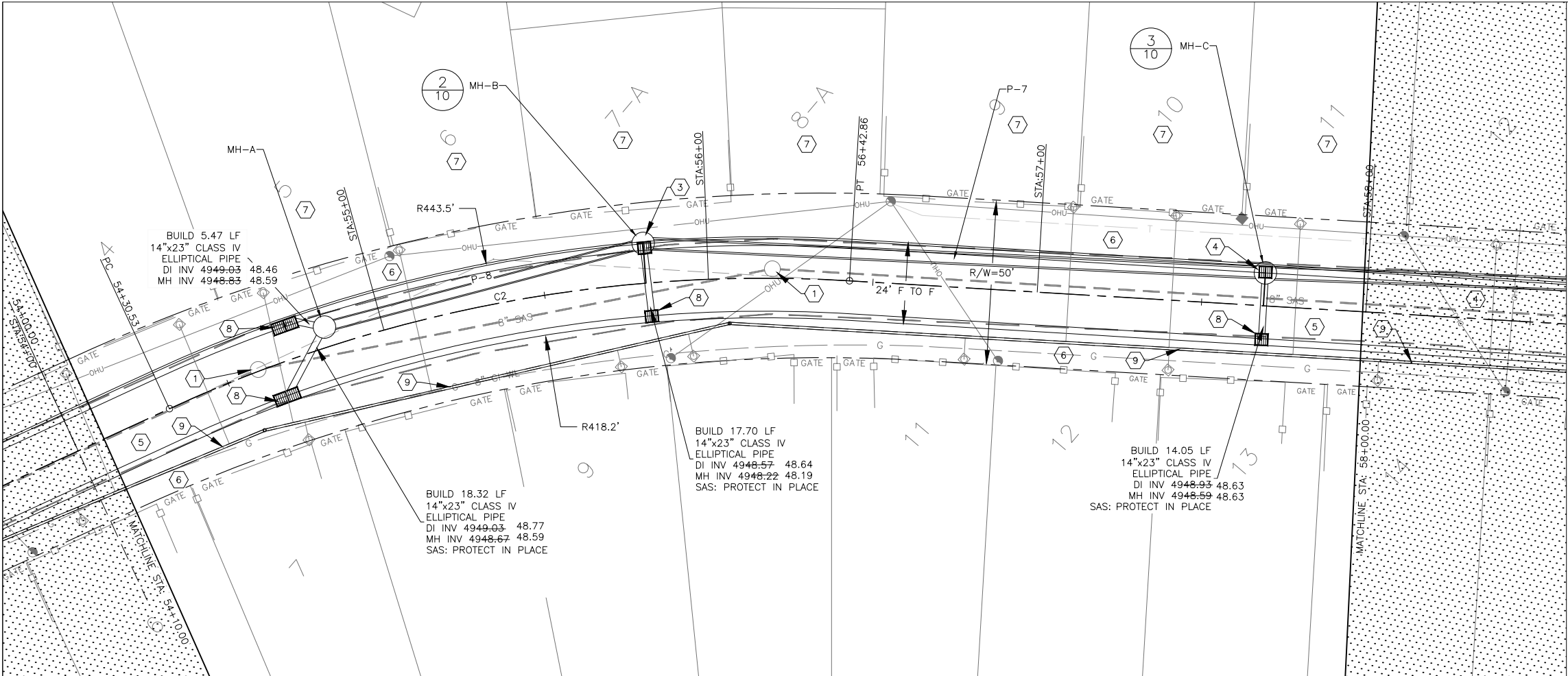


BERNALILLO COUNTY



CYPRESS DRIVE STORM DRAIN PLAN & PROFILE STA 50+20 TO 54+10

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
County Project No. 20160006	City Project No. 601791	Zone Map No. K-11/12	Sheet	Of
			4	14

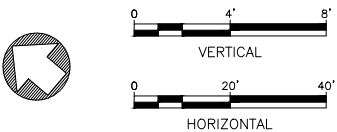


GENERAL NOTES

- SEE SHEET 10 FOR PAVEMENT DETAILS.
- WATERLINE IS IN FOREGROUND; HOWEVER IT IS SHOWN IN PROFILE FOR INFORMATIONAL PURPOSES.
- INLET OFFSET AND ELEV. REFERS TO BACK OF GRATE. ALL DROP INLETS CONSTRUCTED PER COA STD DWGS 2206 & 2220-MODIFIED, SEE SHEET 11.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES. UTILITY LOCATIONS SHOWN IN APPROXIMATE MANNER ONLY. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT COST OF UTILITY LINES DAMAGED IN THE COURSE OF CONSTRUCTION.
- CONSTRUCTION LIMITS/EASEMENTS ARE FROM FENCE LINE TO FENCE LINE. SO NOT DISTURB FENCE AND/OR WALL. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT COST OF FENCE AND/OR WALL DAMAGED IN THE COURSE OF CONSTRUCTION.
- RCP STORM DRAIN AND LATERALS SHALL BE GASKETED TONGUE AND GROOVE.
- TYPE C MANHOLES CONSTRUCTED PER COA STD DWGS 2208, 2212 AND 2210 UNLESS OTHERWISE NOTED.

KEYED NOTES

- ADJUST MANHOLE ELEV TO NEW GRADE PER COA STD SPEC 920, INCLUDE CONCRETE PAD PER COA STD DWG. 2101. CONCRETE PAD INCIDENTAL TO ADJUSTMENTS.
- SEE SHEET 6. RCP LENGTH AND TYPE.
- FLOWLINE OF GRATE SHALL ALIGN WITH FLOWLINE OF CURB. SEE SHEET 10 FOR CURB MODIFICATION.
- FLOWLINE OF GRATE SHALL ALIGN WITH FLOWLINE OF CURB. SEE SHEET 10 FOR CURB MODIFICATION.
- REMOVE AND DISPOSE OF EXISTING ASPHALT FOR FULL STREET WIDTH.
- GRADE TO DRAIN FROM FENCE LINE TO MOUNTABLE CURB. GRADE DRIVEWAYS TO MAINTAIN/RESTORE DRIVEWAY ACCESS. DO NOT DISTURB EXISTING UTILITY POLES OR SERVICES (INCLUDING WATER METERS).
- SEE SHEET 9 DETAIL 1 FOR SAS SERVICE MODIFICATION AND DETAIL 3 FOR WATER SERVICE MODIFICATION.
- INSTALL DROP INLET GRATE PER MODIFIED COA STANDARD DRAWING 2220. SEE
- STA 50+99 TO STA 58+73.28 REMOVE AND REPLACE EXISTING WATERLINE WITH 8" PVC WATERLINE WITH MINIMUM OF 3' OF COVER. MATCH EXISTING AT STA. 58+73.28.
- ADJUST EXISTING MANHOLE COVER TO FINISHED GRADE PER COA STD SPEC SECTION 920.



BERNALILLO COUNTY

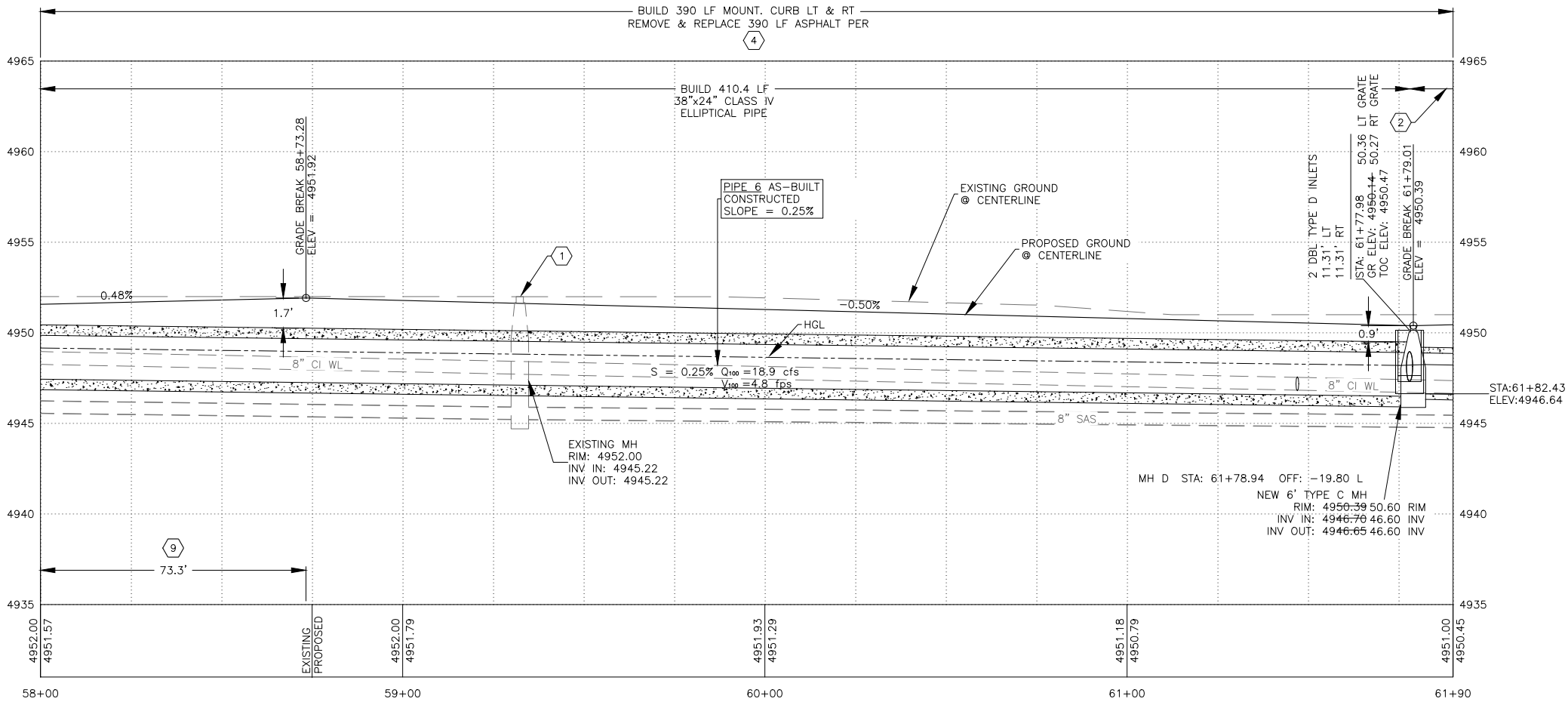
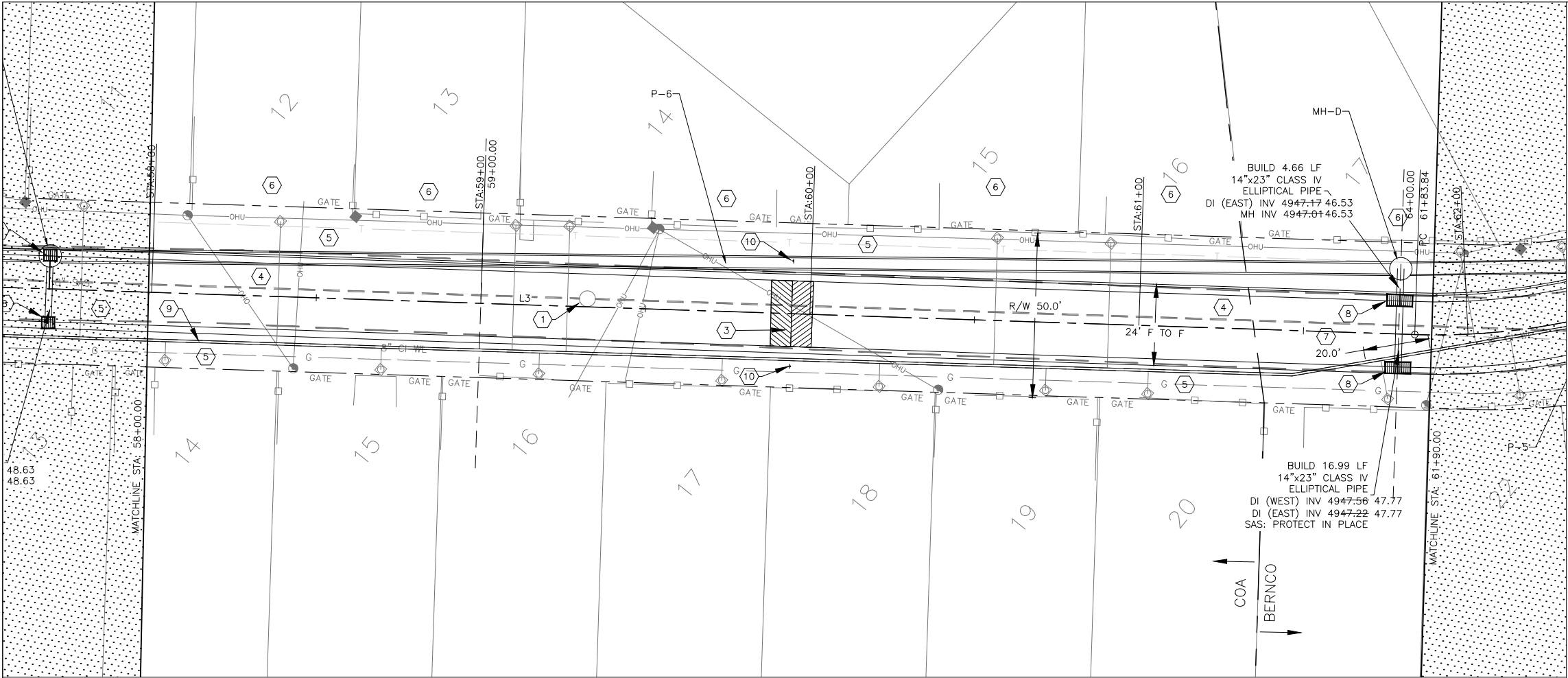
CYPRESS DRIVE STORM DRAIN
PLAN & PROFILE STA 54+10 TO 58+00

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
County Project No. 20160006	City Project No. 601791	Zone Map No. K-11/12	Sheet 5	Of 14

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	CONTRACTOR	DATE	FIELD NOTES	DATE	DATE	DATE
INSPECTOR'S	SLS	INSPECTOR'S	SLS	BY	DATE	DATE	DATE
ACCEPTANCE BY	DATE	ACCEPTANCE BY	DATE	NO.	DATE	DATE	DATE
VERIFICATION BY	DATE	VERIFICATION BY	DATE				
DRAWINGS	DATE	DRAWINGS	DATE				
CORRECTED BY	DATE	CORRECTED BY	DATE				
ELEVATION OF STATION	DATE	ELEVATION OF STATION	DATE				
"15-J12"	DATE	"15-J12"	DATE				
(NAVD 1988 DATUM)	DATE	(NAVD 1988 DATUM)	DATE				
RECORDED BY	DATE	RECORDED BY	DATE				
NO.	DATE	NO.	DATE				



No.	Date	REVISIONS	By
REMARKS			
DESIGN			
Designed By: MDS			
DATE: MAR 2016			
Drawn By: CP, RW			
DATE: MAR 2016			
Checked By: LBS			
DATE: MAR 2016			

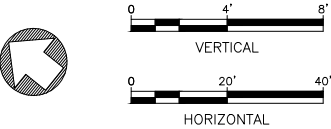


GENERAL NOTES

- SEE SHEET 10 FOR PAVEMENT DETAILS
- WATERLINE IS IN FOREGROUND; HOWEVER IT IS SHOWN IN PROFILE FOR INFORMATIONAL PURPOSES.
- INLET OFFSET AND ELEV REFERS TO BACK OF GRATE.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES. UTILITY LOCATIONS SHOWN IN APPROXIMATE MANNER ONLY. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT COST OF UTILITY LINES DAMAGED IN THE COURSE OF CONSTRUCTION.
- CONSTRUCTION LIMITS/EASEMENTS ARE FROM FENCE LINE TO FENCE LINE. SO NOT DISTURB FENCE AND/OR WALL. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT COST OF FENCE AND/OR WALL DAMAGED IN THE COURSE OF CONSTRUCTION.
- RCP STORM DRAIN AND LATERALS SHALL BE GASKETED TONGUE AND GROOVE.
- TYPE C MANHOLES CONSTRUCTED PER COA STD DWGS 2208, 2212 AND 2210 UNLESS OTHERWISE NOTED.

KEYED NOTES

- ADJUST MANHOLE ELEV TO NEW GRADE PER COA STD SPEC 920. INCLUDE CONCRETE PAD PER COA STD DWG. 2101. CONCRETE PAD INCIDENTAL TO ADJUSTMENTS.
- SEE SHEET 7. FOR RCP LENGTH AND TYPE.
- REPLACE SPEED HUMP PER SHEET 10.
- REMOVE AND DISPOSE OF EXISTING ASPHALT FOR FULL STREET WIDTH.
- GRADE TO DRAIN FROM FENCE LINE TO MOUNTABLE CURB. GRADE DRIVEWAYS TO MAINTAIN/RESTORE DRIVEWAY ACCESS. DO NOT DISTURB EXISTING UTILITY POLES OR SERVICES (INCLUDING WATER METERS).
- SEE SHEET 9 DETAIL 1 FOR SAS SERVICE MODIFICATION AND DETAIL 3 FOR WATER SERVICE MODIFICATION.
- RELOCATE 20.0' WATER LINE PER $\frac{3}{12}$
- INSTALL DROP INLET GRATE PER MODIFIED COA STANDARD DRAWING 2220. SEE $\frac{1}{12}$
- STA 50+99 TO STA 58+73.28 REMOVE AND REPLACE EXISTING WATERLINE WITH 8" PVC WATERLINE WITH MINIMUM OF 3' OF COVER. MATCH EXISTING AT STA. 58+73.28.
- INSTALL SPEED HUMP WARNING SIGNAGE AT STATION 59+94.5 16.0' LT & RT PER COA STANDARD SPECIFICATIONS SECTION 450 AND THE MUTCD. $\frac{5B}{10}$

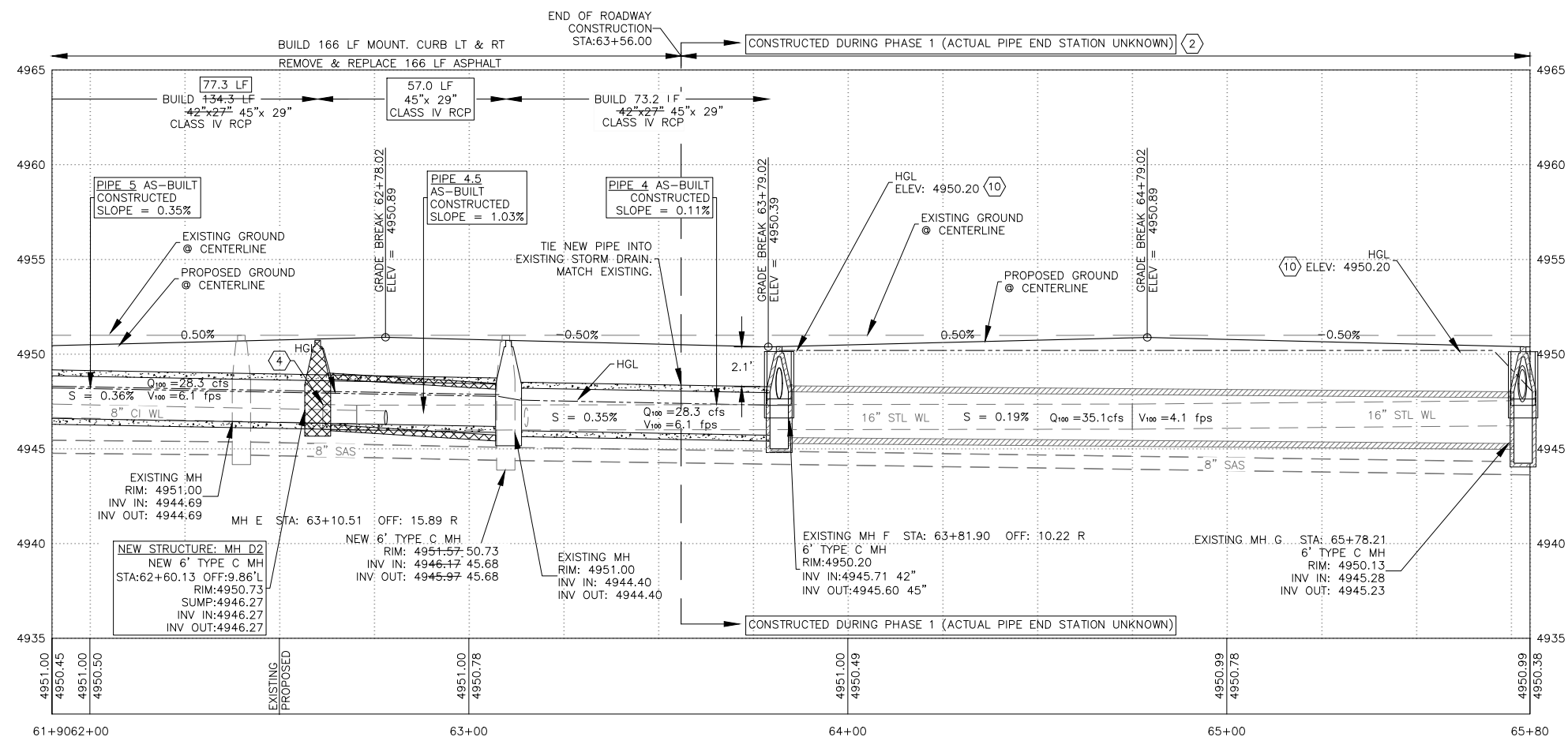
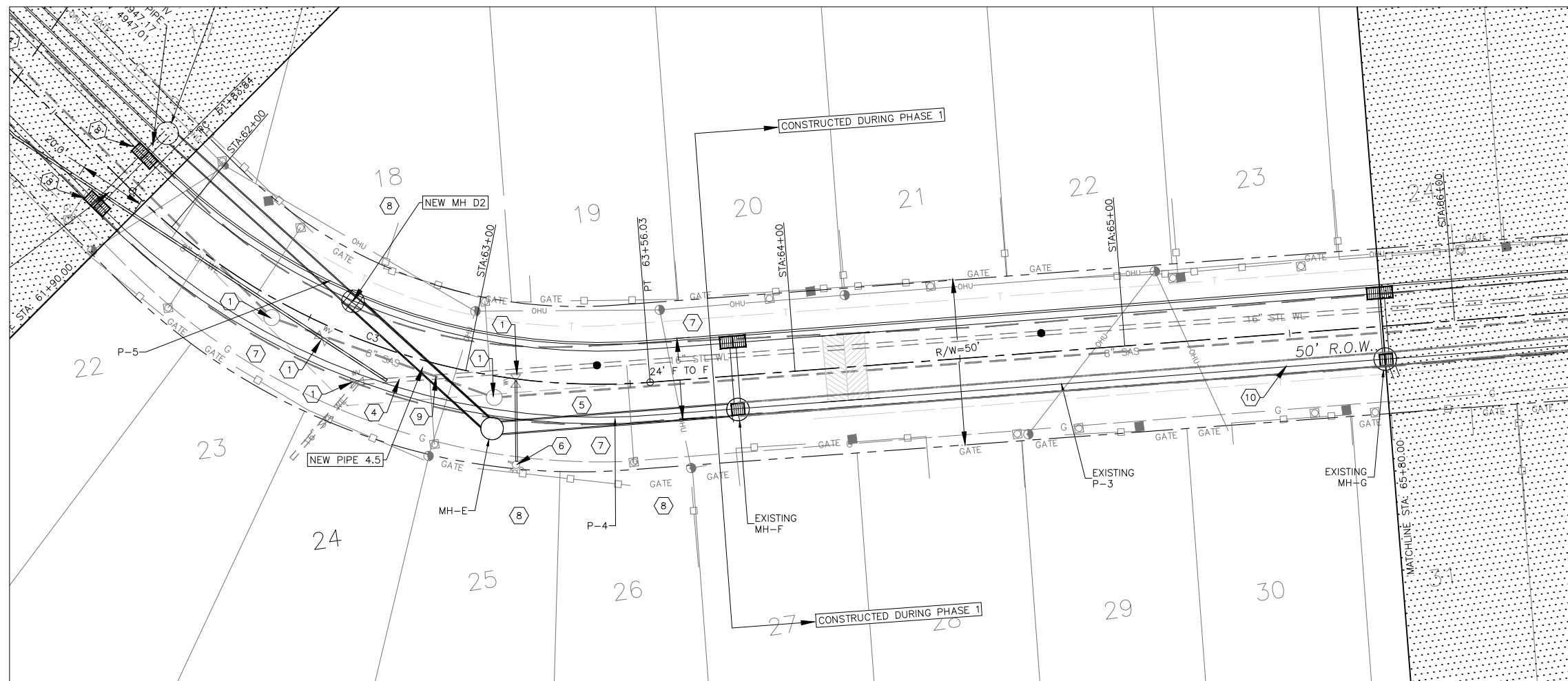


BERNALILLO COUNTY



CYPRESS DRIVE STORM DRAIN PLAN & PROFILE STA 58+00 TO 61+90

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
County Project No. 20160006	City Project No. 601791	Zone Map No. K-11/12	Sheet	Of
			6	14

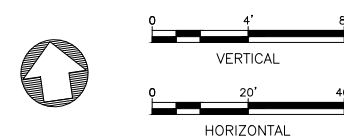


GENERAL NOTES

- A. SEE SHEET 10 FOR PAVEMENT DETAILS
- B. WATERLINE IS IN FOREGROUND; HOWEVER IT IS SHOWN IN PROFILE FOR INFORMATIONAL PURPOSES.
- C. INLET OFFSET AND ELEV REFERS TO BACK OF GRATE.
- D. CONTRACTOR IS RESPONSIBLE FOR VERIFYING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES. UTILITY LOCATIONS SHOWN IN APPROXIMATE MANNER ONLY. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT COST OF UTILITY LINES DAMAGED IN THE COURSE OF CONSTRUCTION.
- E. CONSTRUCTION LIMITS/EASEMENTS ARE FROM FENCE LINE TO FENCE LINE. SO NOT DISTURB FENCE AND/OR WALL. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT COST OF FENCE AND/OR WALL DAMAGED IN THE COURSE OF CONSTRUCTION.
- F. SEE SHEET 3 FOR POTHOLE TABLE AND LINE AND CURB TABLE.
- G. RCP STORM DRAIN AND LATERALS SHALL BE GASKETED TONGUE AND GROOVE.
- H. TYPE C MANHOLES CONSTRUCTED PER COA STD DWGS 2208, 2210, AND 2212 UNLESS OTHERWISE NOTED.

KEYED NOTES

- 1 ADJUST MANHOLE ELEV TO NEW GRADE PER COA STD SPEC 920. INCLUDE CONCRETE PAD PER COA STD DWG. 2101. CONCRETE PAD INCIDENTAL TO ADJUSTMENTS. ADJUST WATER VALVE COVER TO NEW GRADE PER COA STD SPEC 801. CONCRETE PAD INCIDENTAL TO ADJUSTMENTS.
- 2 SEE SHEET 8 FOR RCP END STATION.
- 4 RELOCATE WATER LINE PER 
- 5 REMOVE AND DISPOSE OF EXISTING ASPHALT FOR FULL STREET WIDTH TO APPROX. STA. 63+51 (BOP OF PHASE 1 PAVING).
- 6 NOTIFY FIRE MARSHAL SEVEN (7) DAYS PRIOR TO WATERLINE SHUTOFF THAT THE HYDRANT WILL BE TEMPORARILY OUT OF SERVICE. COVER IN BLACK PLASTIC WHILE OUT OF SERVICE.
- 7 GRADE TO DRAIN FROM FENCE LINE TO MOUNTABLE CURB. GRADE DRIVEWAYS TO MAINTAIN/RESTORE DRIVEWAY ACCESS. DO NOT DISTURB EXISTING UTILITY POLES OR SERVICES (INCLUDING WATER METERS).
- 8 SEE SHEET 9 DETAIL 1 FOR SAS SERVICE MODIFICATION AND DETAIL 3 FOR WATER SERVICE MODIFICATION.
- 9 SEE SHEET 9 DETAIL 2 FOR RCP CROSSING OF SAS MAIN.
- 10 STORM DRAIN PIPE BETWEEN MH F AND MH G IS SURCHARGED. WATER WILL OVERFLOW MH F.



BERNALILLO COUNTY

CYPRESS DRIVE STORM DRAIN
PLAN & PROFILE STA 61+90 TO 65+80

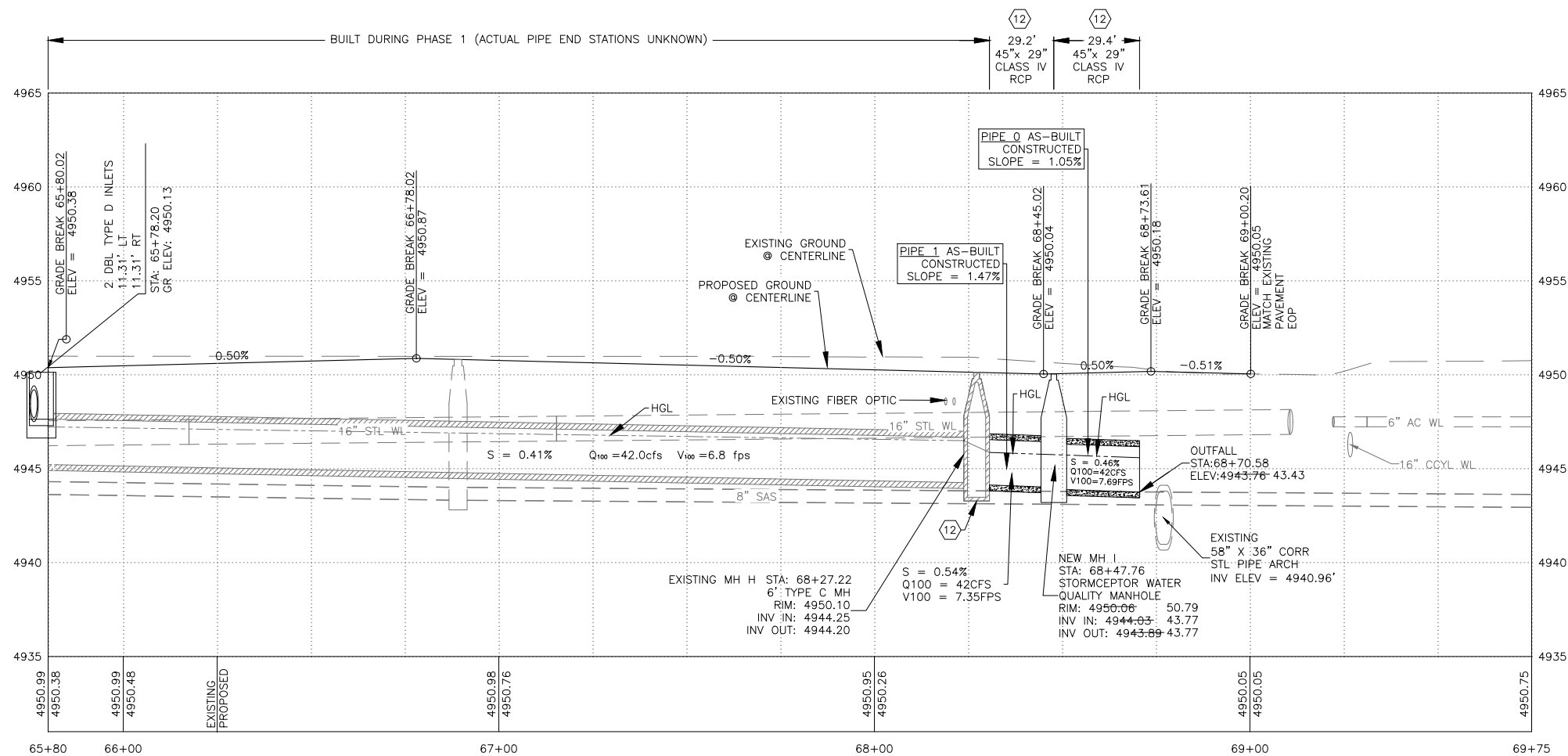
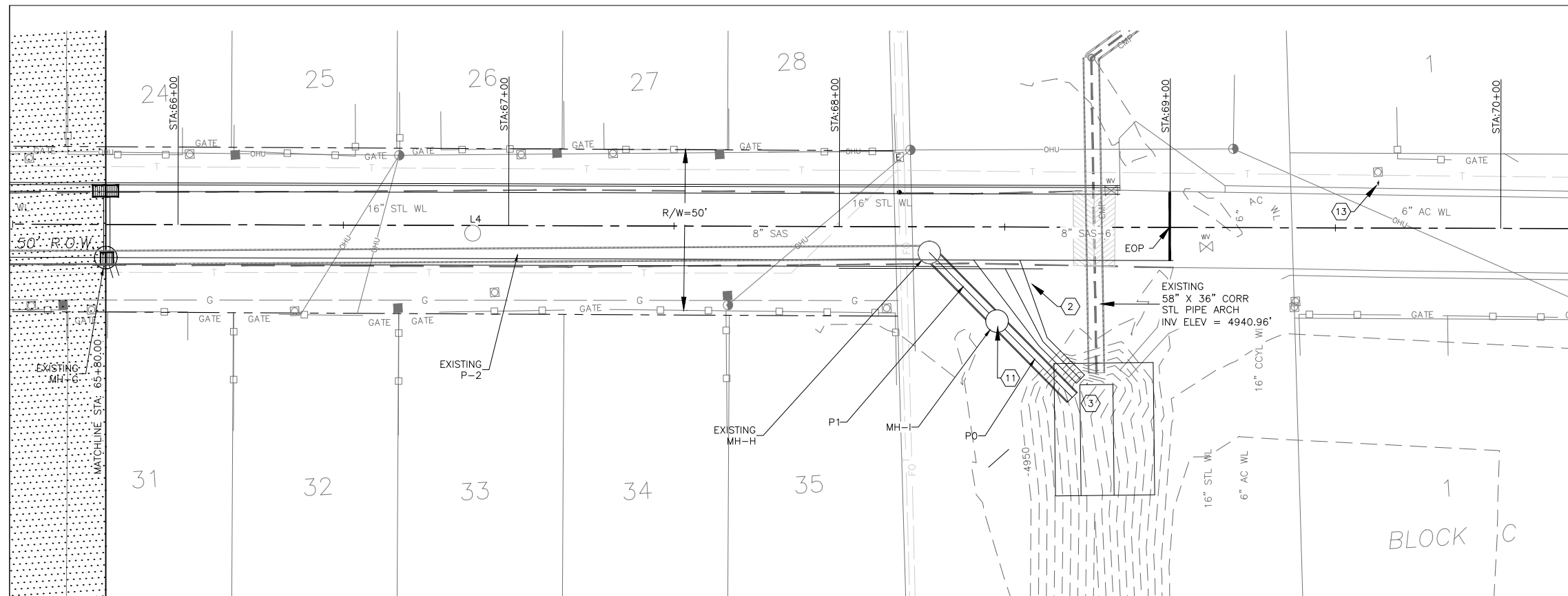
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
County Project No. 20160006	City Project No. 601791	Zone Map No. K-11/12	Sheet 7	Of 14

SURVEY INFORMATION			BENCH MARKS		AS-BUILT INFORMATION		
FIELD NOTES							
NO.	BY	DATE			CONTRACTOR	DATE	
			BEARINGS ARE BASED ON GEODETIC NORTH FROM GPS OBSERVATIONS. DISTANCES ARE HORIZONTAL. GROUND MEASUREMENTS IN US FEET. ELEVATIONS ARE BASED ON A.G.R.S. STATION "15-J12". ELEVATION OF STATION = 4965.627 (NAVD 1988 DATUM).		WORK STARTED BY	SLS	DATE 10-16
					INSPECTOR'S FIELD VERIFICATION BY		DATE
					FIELD VERIFICATION BY		DATE
					RECORDED BY	RW	DATE 12-16
					MICRO-FILM INFORMATION		
					RECORDED BY		DATE
					NO.		



		No.	Date	REVISIONS	By
				REMARKS	
				DESIGN	
				Designed By: MDS	DATE: MAR 2016
				Drawn By: CP, RW	DATE: MAR 2016
				Checked By: LBS	DATE: MAR 2016





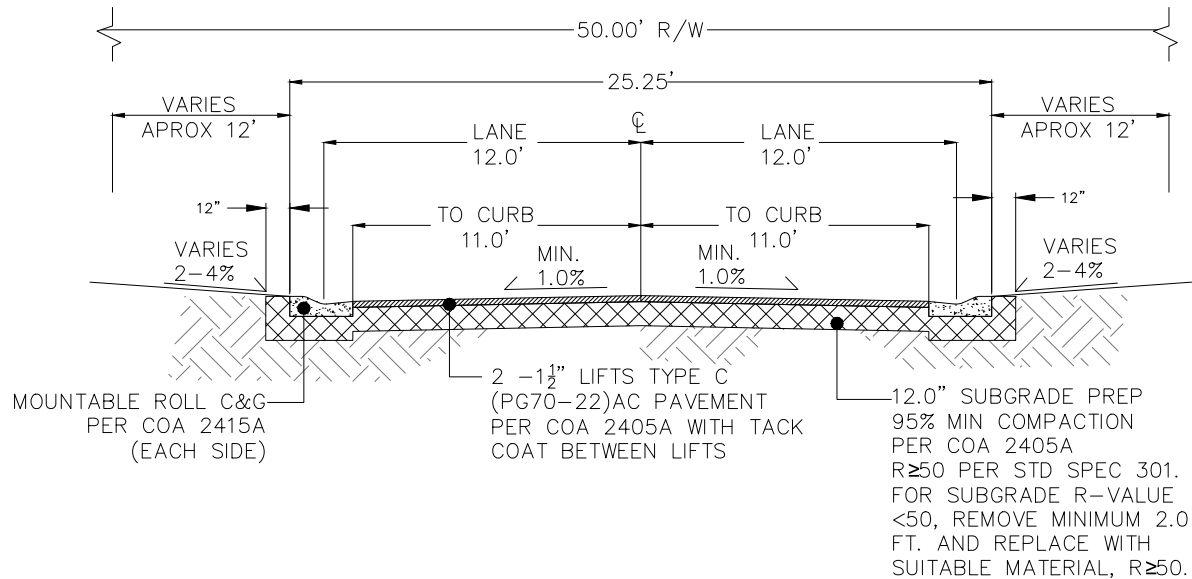
CYPRESS DRIVE STORM DRAIN
PLAN & PROFILE STA 65+80 TO EOP



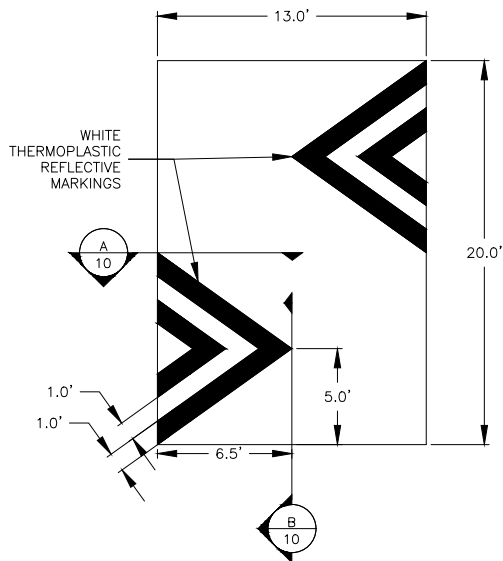
37 SERVICES FROM STA: 52+02.93 TO 63+81.90

1. EXISTING 8" VITRIFIED CLAY PIPE SAS
2. EXISTING 4" VITRIFIED CLAY PIPE RISER
3. EXTEND 4" VITRIFIED CLAY PIPE RISER
4. SHORTEN 4" VITRIFIED CLAY PIPE RISER
5. TRANSITION 4" VITRIFIED CLAY PIPE TO 4" PVC
6. PVC WITH UNIFORM SLOPE FROM JUNCTION TO SERVICE AT PROPERTY LINE. MINIMUM SLOPE 2.08%
7. REMOVE AND DISPOSE OF 4" SAS PIPE
8. INSTALL ELECTRONIC MARKING SPHERE (EMS) AT BACK OF CURB AND BEND PER COA STD SPEC 170.
9. PER COA STD SPEC 207, 4.25 FT. LEAN FILL CENTERED ON SAS SERVICE. LEAN FILL VOLUME IS 4 FT. X 4.25 FT X (SD DIA. + 2 FT.).
10. PER COA STD SPEC 207, 12 FT. LEAN FILL CENTERED ON SAS MAIN. LEAN FILL VOLUME IS 4 FT. X 12 FT. X 5.5 FT.
11. PER COA STD. SPEC. 207, 5 FT. LEAN FILL CENTERED ON 16" WL.

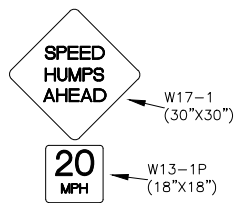
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
County Project No. 20160006	City Project No. 601791	Zone Map No. K-11/12	Sheet 9	Of 14



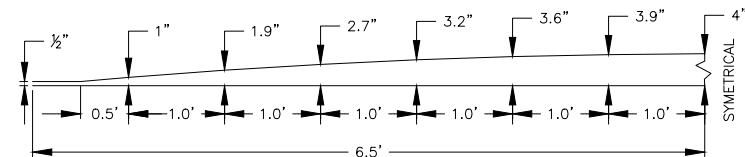
1 TYPICAL ROAD SECTION CYPRESS DRIVE (NTS)



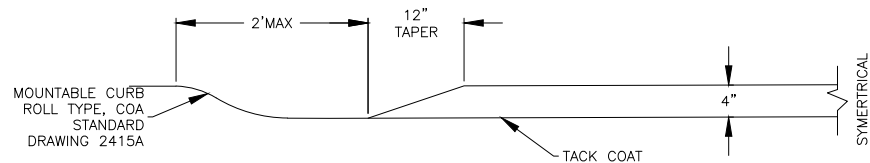
4 SPEED HUMP AND SIGNAGE STATION 59+94.46 (NTS)



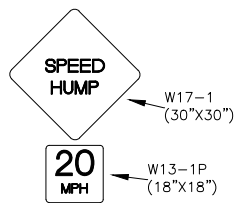
5A SPEED HUMP SIGNAGE STA: 69+65.85, 13.62' LT (NTS)



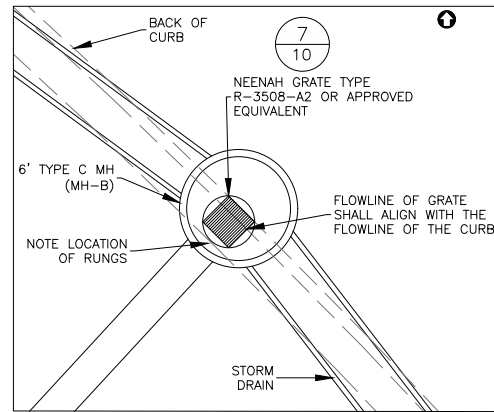
A SECTION A NTS



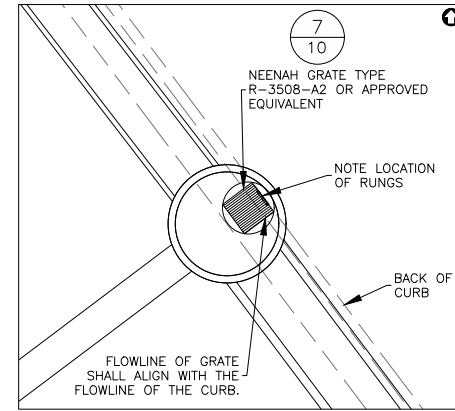
B SECTION B NTS



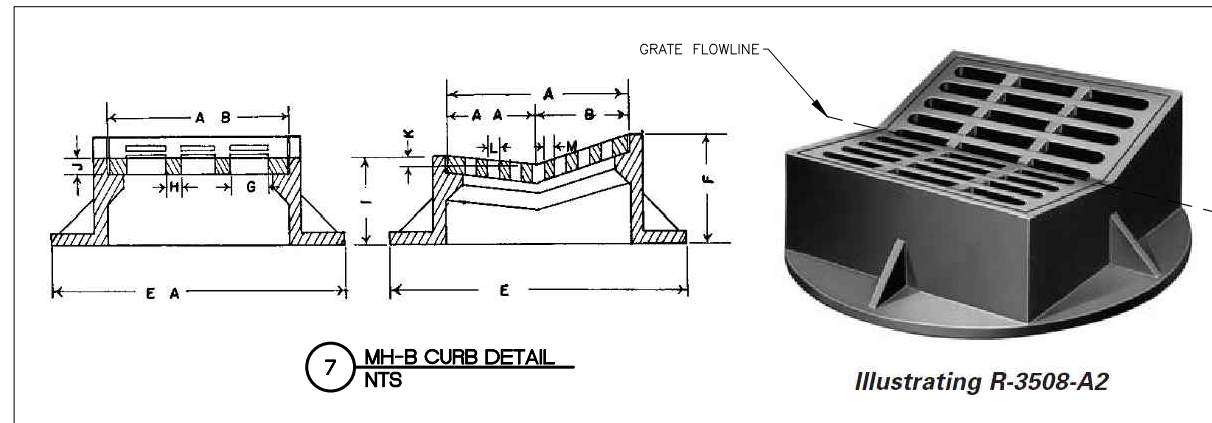
5B SPEED HUMP SIGNAGE (NTS) STA: 59+94.5, 16.0' LT, 16.0' RT



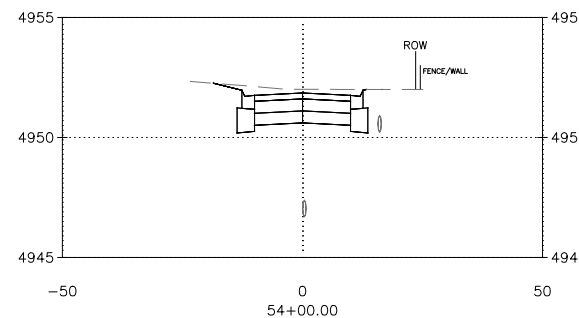
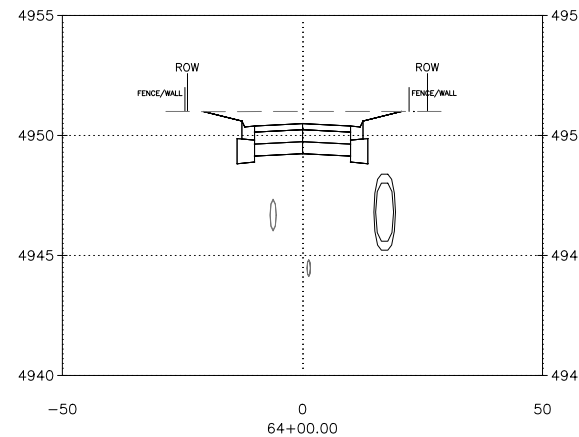
2 MH-B CURB DETAIL NTS



3 MH-C CURB DETAIL NTS



7 MH-B CURB DETAIL NTS



6 SECTION VIEWS NTS



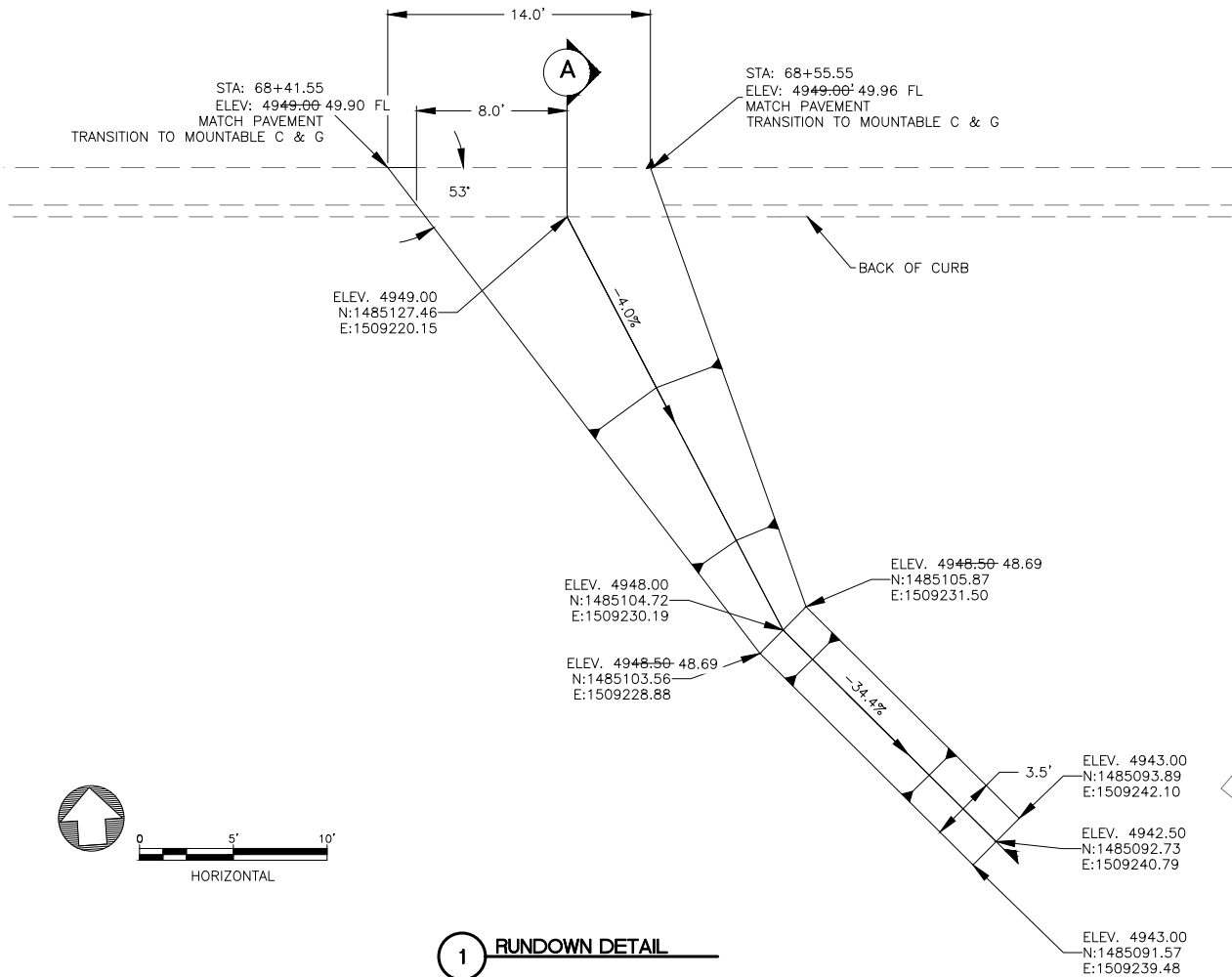
CYPRESS DRIVE STORM DRAIN ROADWAY AND CURB DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
County Project No. 20160006	City Project No. 601791	Zone Map No. K-11/12	Sheet 10	Of 14

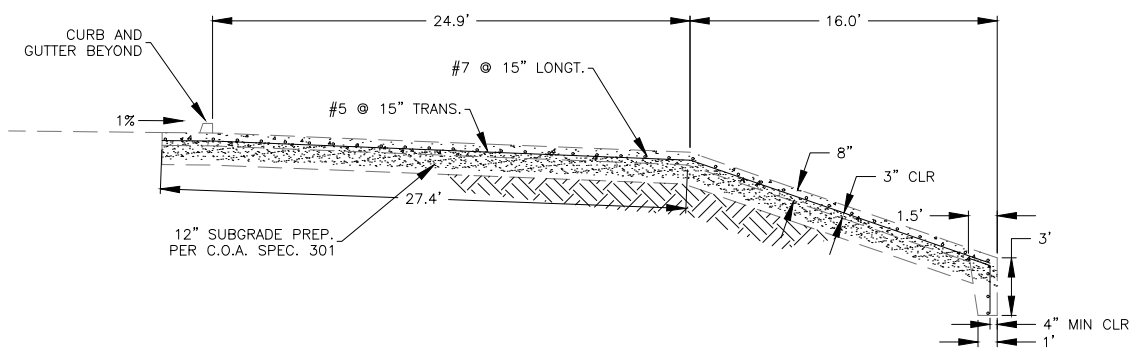
AS-BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	DATE	DATE	CONTRACTOR	DATE	DATE	FIELD NOTES	DATE	DATE	DATE	DATE	DATE
INSPECTOR'S	SLS	DATE	INSPECTOR'S	SLS	DATE	NO.	BY	DATE	NO.	BY	DATE
ACCEPTANCE BY	DATE	DATE	ACCEPTANCE BY	DATE	DATE						
VERIFICATION BY	DATE	DATE	VERIFICATION BY	DATE	DATE						
DRAWINGS	DATE	DATE	DRAWINGS	DATE	DATE						
CORRECTED BY	DATE	DATE	CORRECTED BY	DATE	DATE						
RECORDED BY	DATE	DATE	RECORDED BY	DATE	DATE						
NO.			NO.								



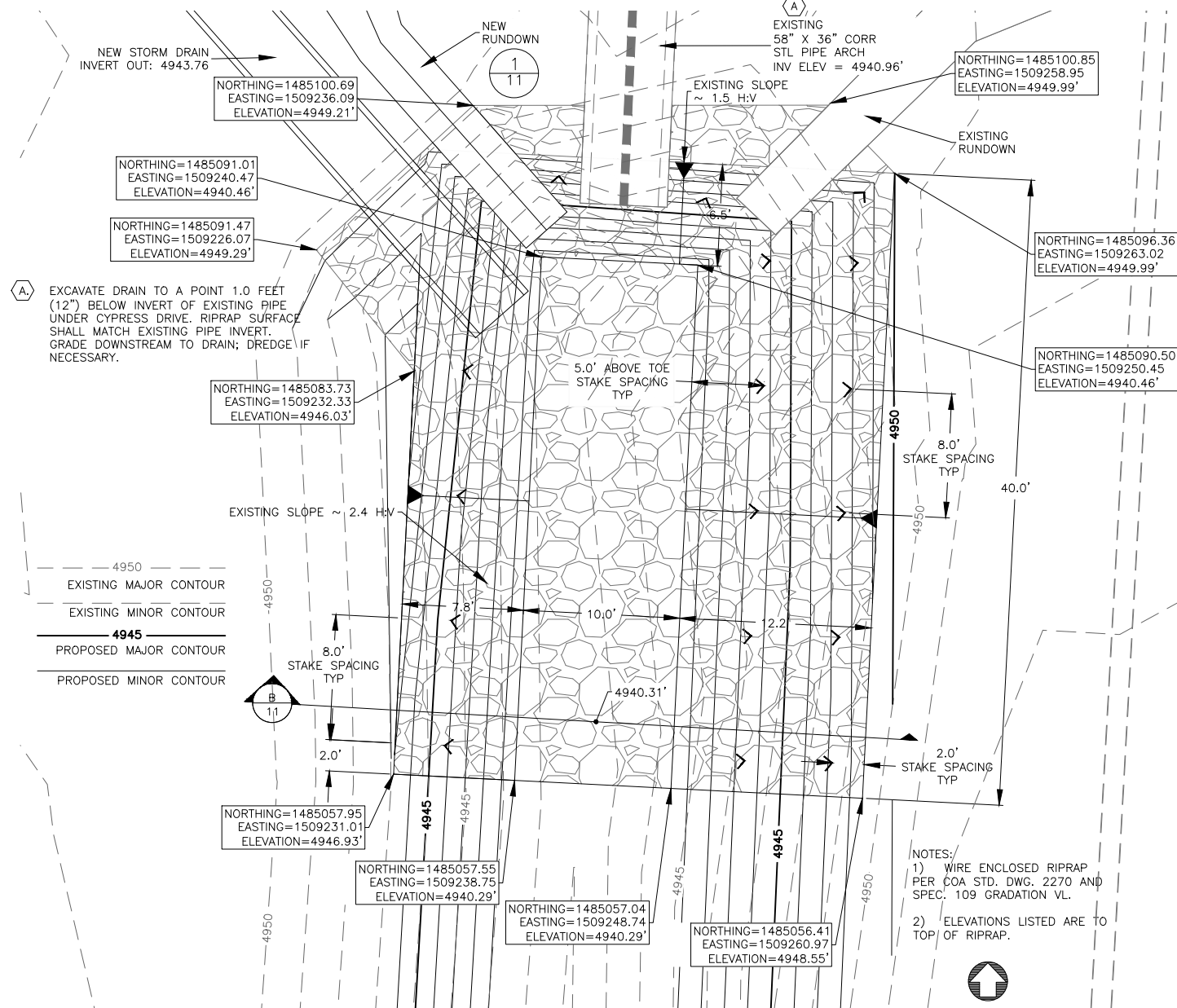
REVISIONS	By	DATE
REMARKS		
DESIGN		
Designed By: MDS	DATE: MAR 2016	
Drawn By: CP, RW	DATE: MAR 2016	
Checked By: LBS	DATE: MAR 2016	



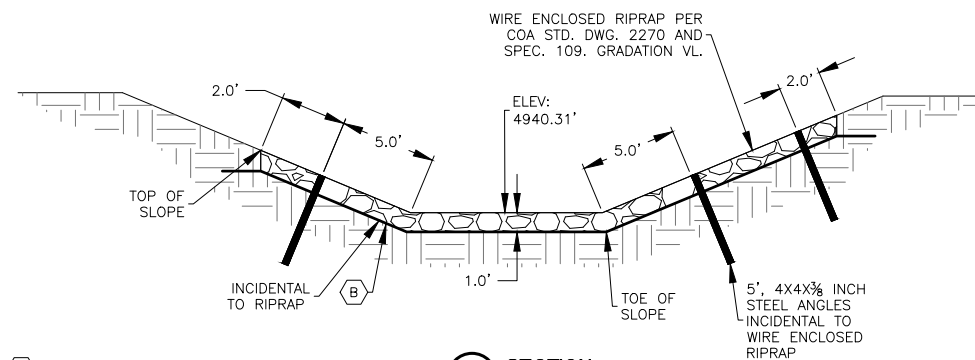
1 RUNDOWN DETAIL



SECTION



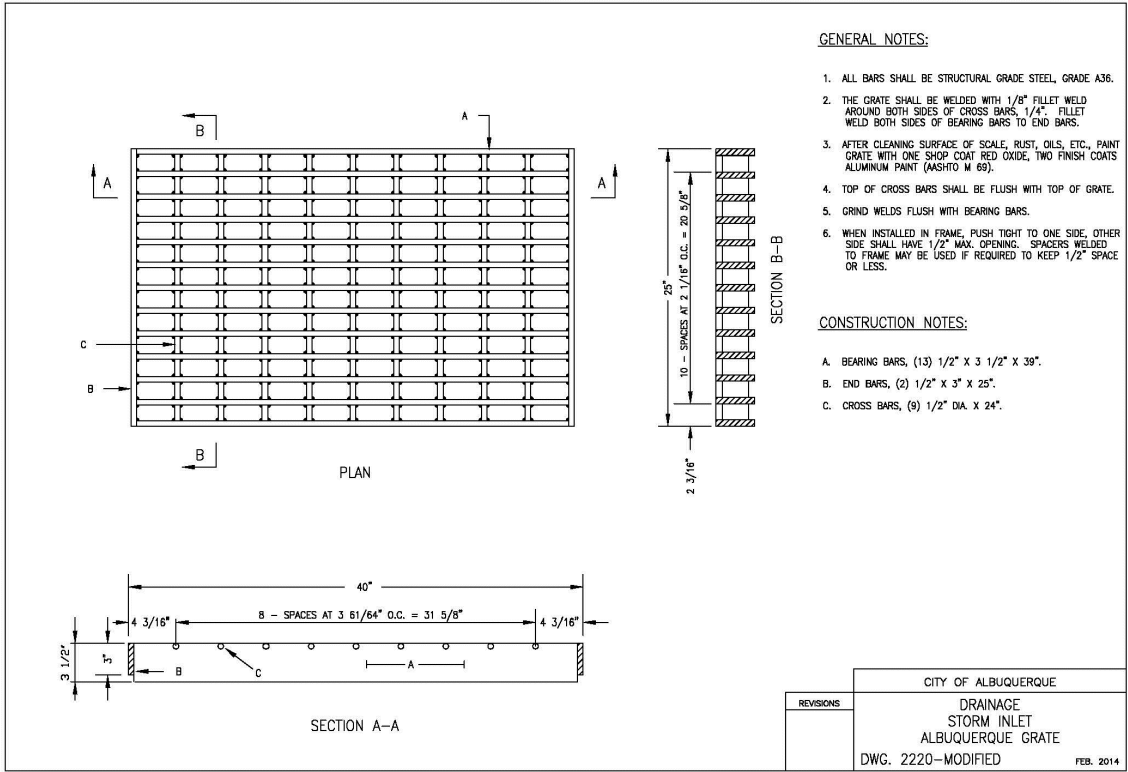
RIPRAP DETAIL



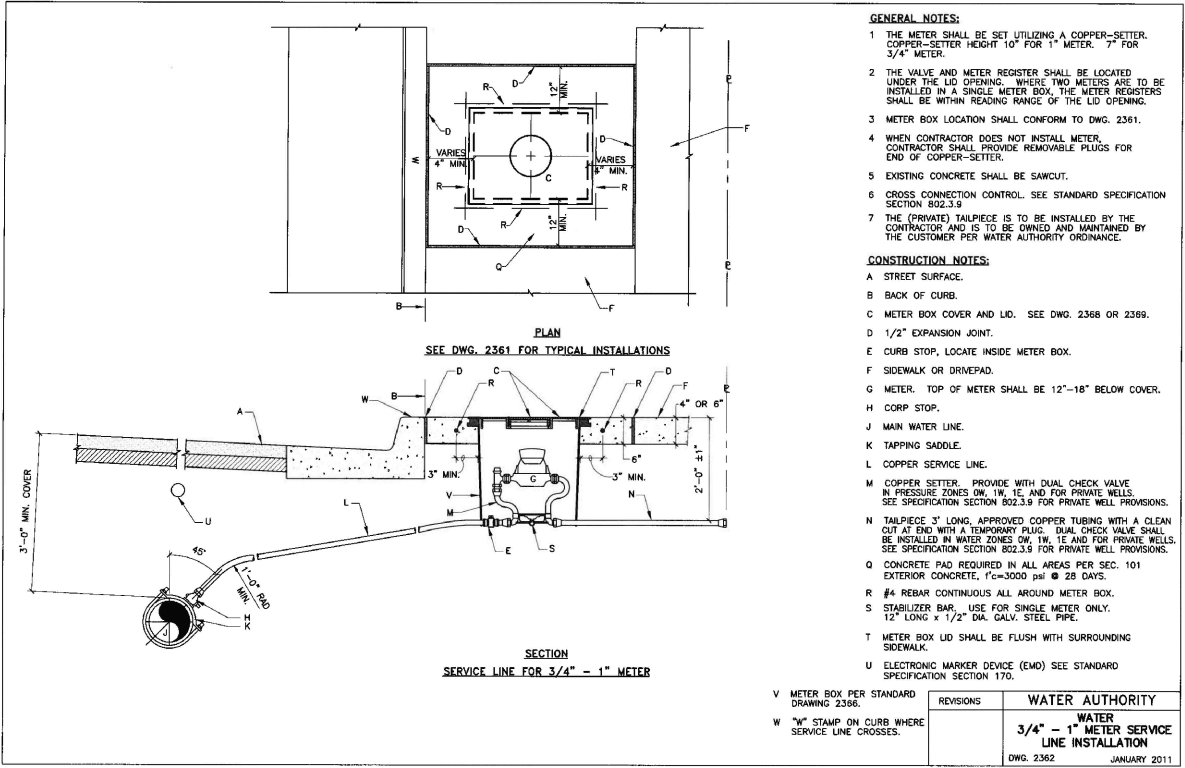
SECTION

B. PLACE CLASS 1 NON-WOVEN GEOTEXTILE (FILTER FABRIC). FABRIC SHALL BE IN ACCORDANCE WITH SECTION 604, SOIL AND DRAINAGE GEOTEXTILES NMDOT STD SPECS FOR HIGHWAY AND BRIDGE CONSTRUCTION, 2007 EDITION.

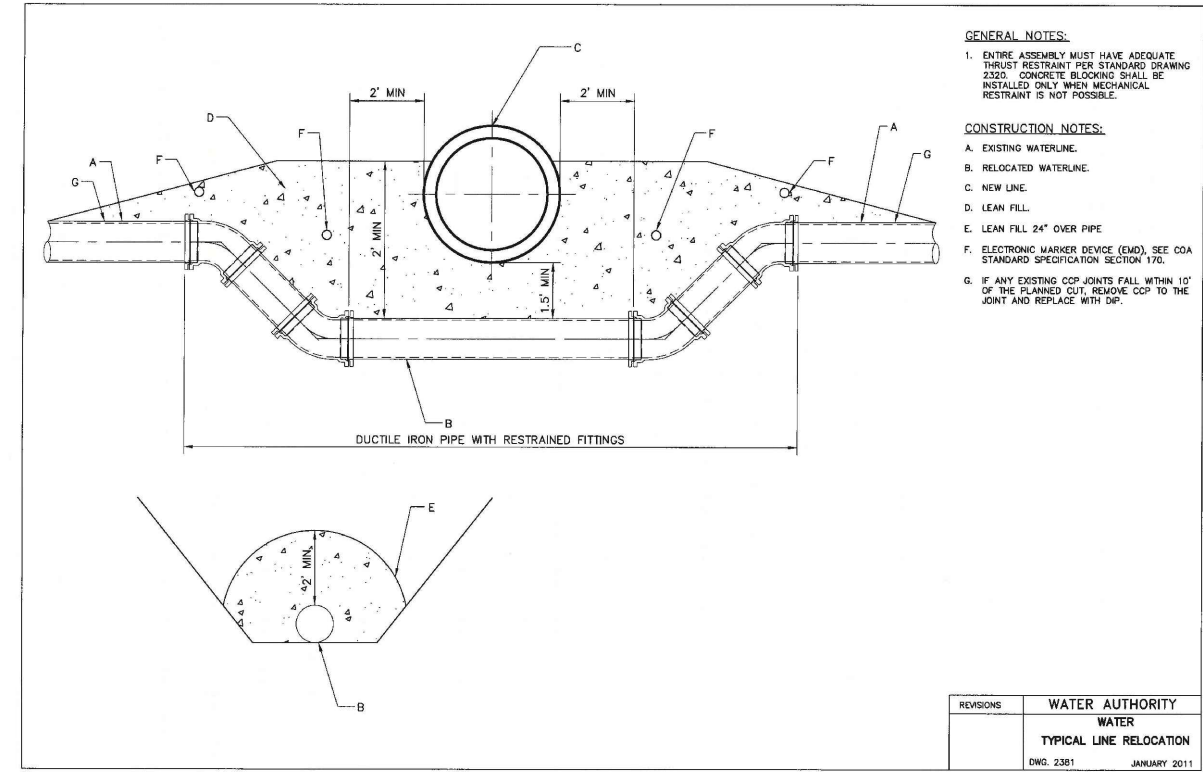
[illegible]



1 STORM INLET GRATE
STD DWG 2220-MODIFIED (NTS)



2 WATER METER SERVICE LINE INSTALLATION
STD DWG 2362 (NTS)



3 TYPICAL WATER LINE RELOCATION
STD DWG 2381 (NTS)

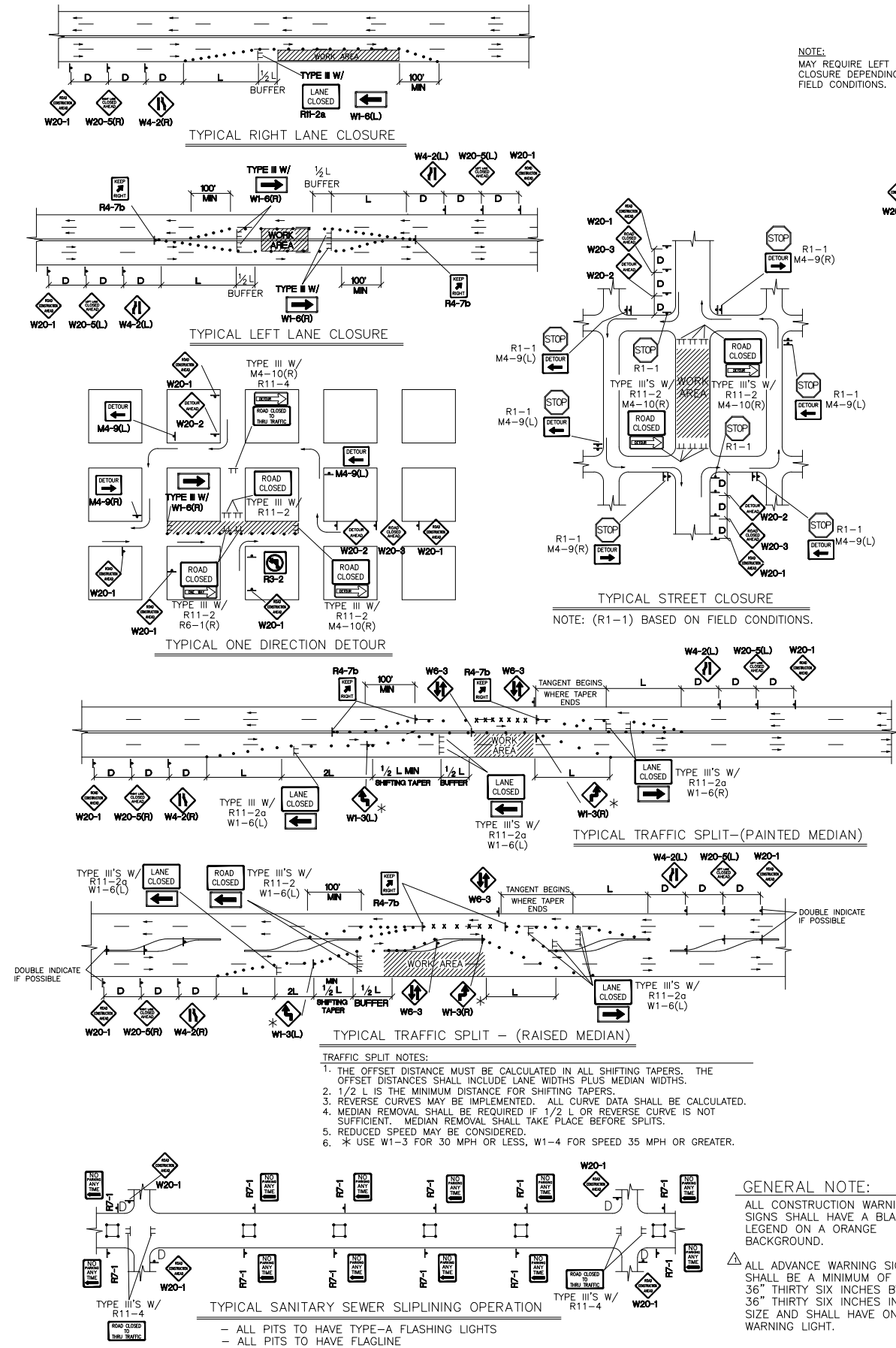


BERNALILLO COUNTY

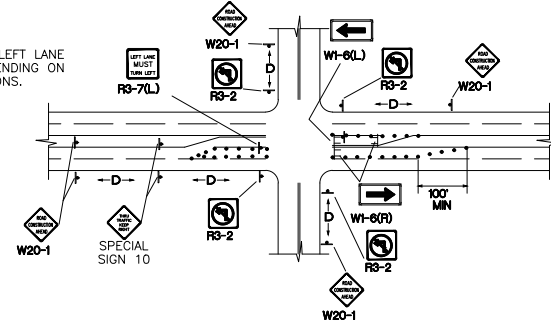


CYPRESS DRIVE STORM DRAIN
STANDARD DETAILS

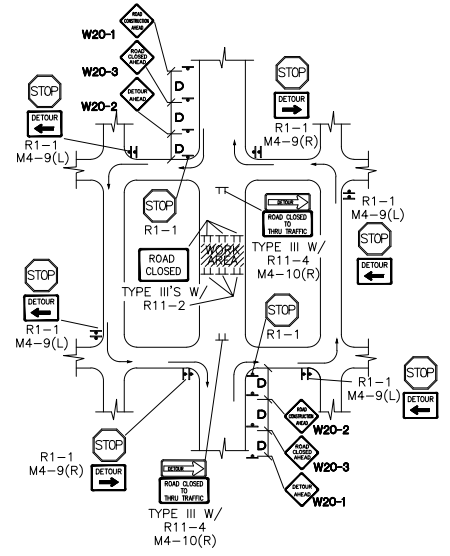
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
County Project No. 20160006	City Project No. 601791	Zone Map No. K-11/12	Sheet 12	Of 14



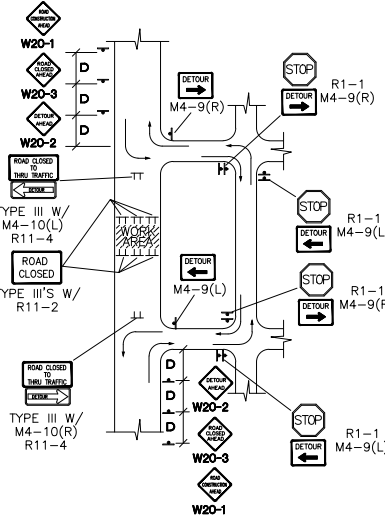
NOTE:
MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.



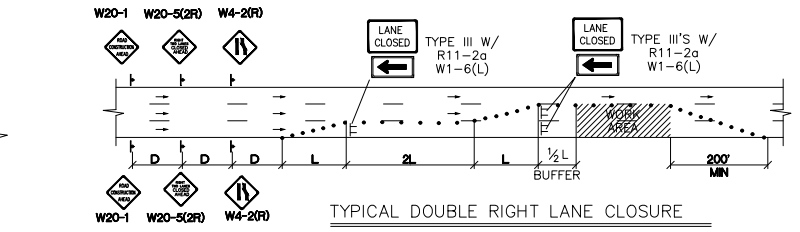
TYPICAL LANE CLOSURE AT INTERSECTION
NOTE: DEPENDING ON WORK ZONE LOCATION.



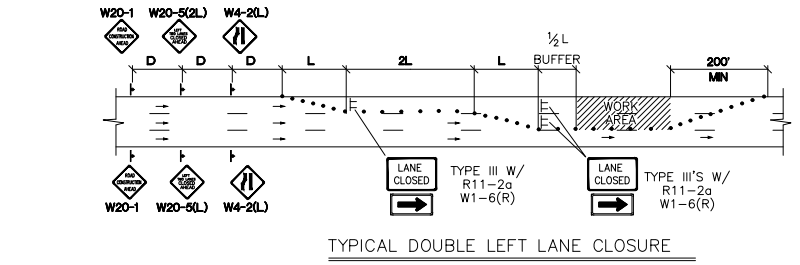
TYPICAL MID-BLOCK CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



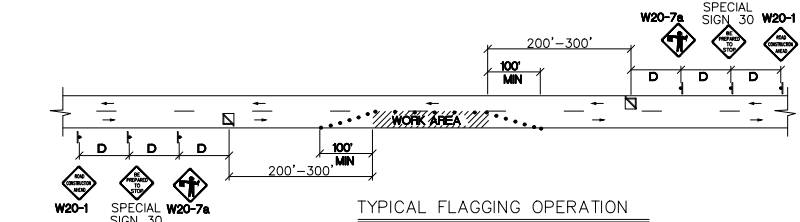
TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



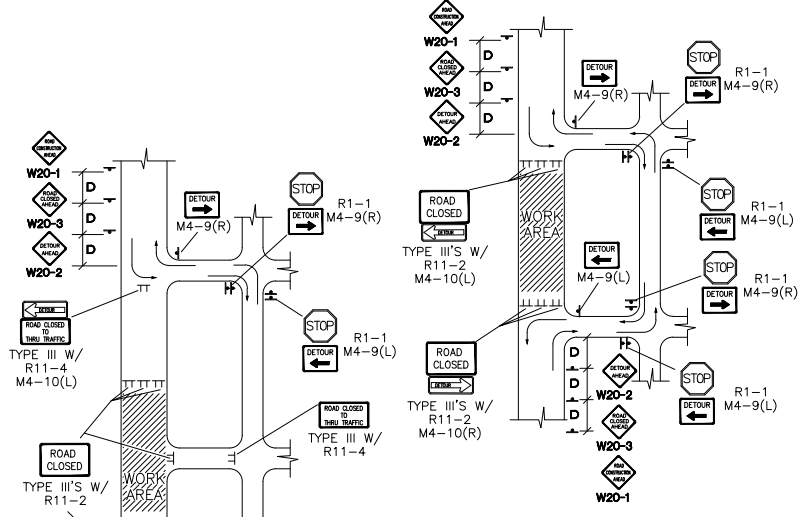
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL FLAGGING OPERATION



TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

FOR INFORMATION ONLY

COUNTY OF BERNALILLO

TITLE: TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF MUTCD)

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF	
601791 /20160006		13	14	

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE			FIELD NOTES	DATE		
WORK STATED BY	DATE			NO.	BY		
FIELD ACCEPTANCE BY	DATE						
DRAWINGS CORRECTED BY	DATE						
MICRO-FILM INFORMATION							
RECORDED BY	DATE						
NO.							

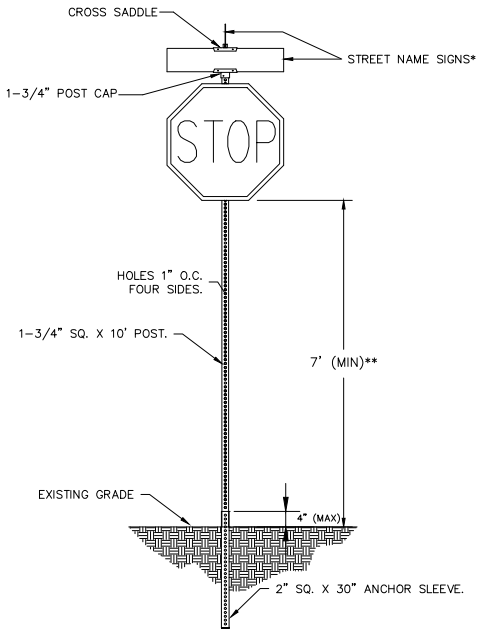
COA STANDARD

9/24/97	REVISED GENERAL NOTE	BY	J.D.L.
NO. DATE	REMARKS	DESIGN	
DESIGNED BY BOHANNAN HUSTON	DATE 5-97		
DRAWN BY BOHANNAN HUSTON	DATE 5-97		
CHECKED BY BOHANNAN HUSTON	DATE 5-97		

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. PROJECT IS SUBJECT TO THE REQUIREMENTS OF COUNTY ORDINANCE NO. 95-12 AND COUNTY ORDINANCE NO. 96-3. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY. CONTRACTOR SHALL CALL 848-1504 FOR MORE INFORMATION.
2. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE COUNTY TRAFFIC CONTROL ADMINISTRATOR AT LEAST 72 HOURS PRIOR TO COMMENCEMENT OF WORK. TRAFFIC CONTROL PLANS SHALL BE PREPARED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION AND BY CERTIFIED PERSONNEL AND MUST BE APPROVED PRIOR TO COMMENCEMENT OF WORK ON THE PROJECT. CALL 848-1504 FOR FURTHER INFORMATION.
3. A DAILY TRAFFIC CONTROL LOG SHALL BE MAINTAINED BY THE CONTRACTOR REFLECTING THE TYPES AND LOCATIONS OF ALL TRAFFIC CONTROL DEVICES, SIGNS, BARRICADES, ETC. BEING USED ON THE PROJECT IN COMPLIANCE WITH THE APPROVED TRAFFIC CONTROL PLAN. THIS LOG SHALL BE SUBMITTED TO THE BERNALILLO COUNTY TRAFFIC CONTROL ADMINISTRATOR UPON COMPLETION OF THE PROJECT CONSTRUCTION OR WHEN SO REQUESTED BY THE PROJECT MANAGER OR THE BERNALILLO COUNTY TRAFFIC CONTROL ADMINISTRATOR.
4. CONTRACTOR SHALL PROVIDE A WEEKLY CONSTRUCTION ACTIVITY SCHEDULE TO BERNALILLO COUNTY PUBLIC WORKS DIVISION ATTN: PROJECT MANAGER
5. THE CONTRACTOR SHALL FILE A WEEKLY WRITTEN REPORT TO THE TRAFFIC CONTROL ADMINISTRATOR DESCRIBING THE TRAFFIC CONTROL PLAN THAT WILL BE IN EFFECT FOR THE FOLLOWING WEEK.
6. SUBJECT TO THE APPROVED TRAFFIC CONTROL PLAN, AT LEAST ONE LANE SHALL BE OPEN TO TRAFFIC AT ALL TIMES. CONTRACTOR SHALL PROVIDE PROPER SIGNAGE AND FLAGMAN AND SHALL MAINTAIN THE TRAFFIC LANE IN SUCH A MANNER AS TO ASSURE PROPER SAFETY TO THE TRAVELING PUBLIC AT ALL TIMES, EXCEPT WHEN GRADING, EXCAVATION AND BACKFILL OPERATIONS ARE BEING CONDUCTED IMMEDIATELY IN FRONT OF THE PROPERTY, IN WHICH CASE ACCESS WILL NOT BE DENIED FOR MORE THAN 4 HOURS WITHOUT APPROVAL BY THE COUNTY.
7. TRAFFIC LANES PROVIDED DURING CONSTRUCTION SHALL BE MAINTAINED, IN SUCH A CONDITION UNDER ALL WEATHER CONDITIONS, SO AS TO PERMIT THE REASONABLE PASSAGE OF PASSENGER VEHICLES, AND SHALL BE KEPT GRADED AND SMOOTH, AND WATERED SEVERAL TIMES DAILY TO CONTROL DUST.
8. TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.
9. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY BERNALILLO COUNTY TRAFFIC ENGINEERING.
10. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF THE COUNTY TRAFFIC CONTROL ADMINISTRATOR, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
11. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP FOR EACH PHASE SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.
12. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.
13. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.
14. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY BERNALILLO COUNTY TRAFFIC ENGINEERING PER MUTCD SECTION 6A-4.
15. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.
16. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF BERNALILLO COUNTY TRAFFIC ENGINEERING.
17. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
18. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
19. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

20. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF BERNALILLO COUNTY TRAFFIC ENGINEERING. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE LETTERING ON BLUE BACKGROUND. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
21. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.
22. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY BERNALILLO COUNTY TRAFFIC ENGINEERING.
23. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET, SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.
24. THE CONTRACTOR SHALL CONTACT BERNALILLO COUNTY TRAFFIC ENGINEER (848-1575) BEFORE REMOVING AND/OR INSTALLING ANY TRAFFIC SIGNS OR PERMANENT STRIPING AND MARKINGS. ALL STRIPING, PAVEMENT MARKINGS INCLUDING CROSSWALKS, LEGENDS AND SYMBOLS ARE TO BE CONSTRUCTED OF INTERSECTION GRADE COLD PLASTIC AND LINE MARKINGS ARE TO BE CONSTRUCTED OF DURABLE PAINT IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION. ANY PAVEMENT MARKINGS AND SIGNS REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT EXISTING LOCATIONS. SUCH WORK SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION OF THE PROJECT.



SIGN POST DETAIL
SCALE: 1\"/>

*ALL STREET NAME SIGNS SHALL BE WHITE LETTERS ON GREEN BACKGROUND WITH HI INTENSITY REFLECTIVE SHEETING. ALL LETTERS SHALL BE 4\"/>

**SEE MUTCD FOR MINIMUM MOUNTING HEIGHT IN RURAL AREAS

# OF POSTS	MAXIMUM SIGN SQUARE FOOTAGE
1	6
2	12
3	18

TAPER REQUIREMENT

SPEED LIMIT (MPH)	TAPER LENGTH(L) (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR

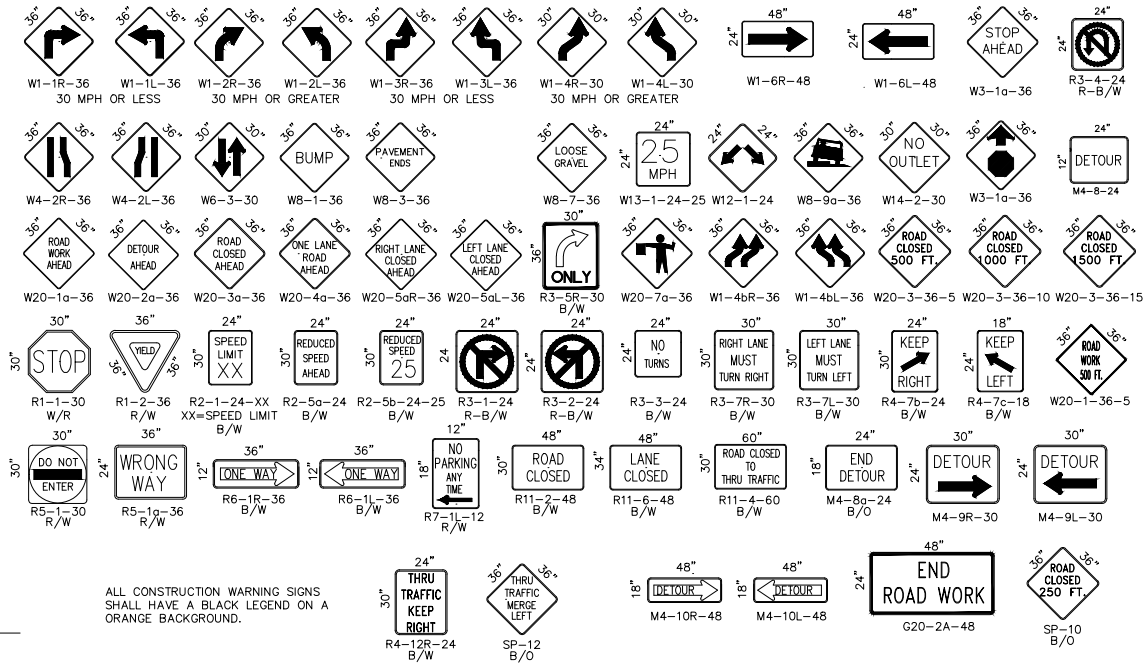
ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET	
	BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

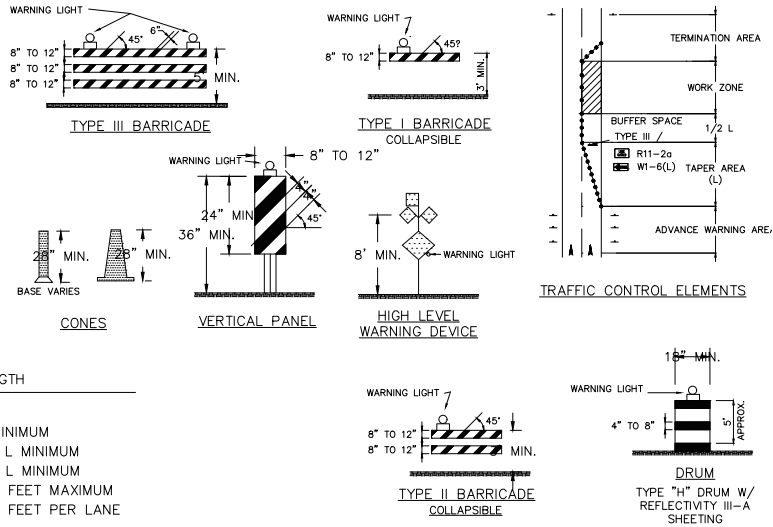
LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR TYPE "H" DRUM W/ REFLECTIVITY III-A SHEETING
 - BARRICADE - TYPE III
 - VERTICAL PANEL
 - WARNING SIGN
 - DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
 - FLAGMAN POSITION
 - SPACING BETWEEN BARRICADES- A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
 - TAPER LENGTH - SEE CHART BELOW
- THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

SIGN FACE DETAILS



ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.



TRAFFIC CONTROL ELEMENTS

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
40 MPH OR GREATER	$L = W \times S$
L = TAPER LENGTH W = WIDTH OF OFFSET IN FEET S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH	

		BY	
NO.	DESCRIPTION	DATE	
REVISIONS			
COUNTY OF BERNALILLO			
CYPRESS DRIVE STORM DRAIN SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS			
FOR INFORMATION ONLY			
PROJECT NO. 601791 /20160006		DRAWN: CHECKED:	DATE: SCALE:
SHEET 14 OF 14			