

SCANNED
BY PLW

BERNALILLO COUNTY OF NEW MEXICO PUBLIC WORKS DIVISION

CONSTRUCTION PLANS
FOR

2 3 4 5 6 7 8 9 10 11 12 13 14 15
26-7069.81 06

HUNTER COURT AND ELSA DRIVE PAVING, SEWER AND WATER IMPROVEMENTS INCLUDING BEALL ROAD

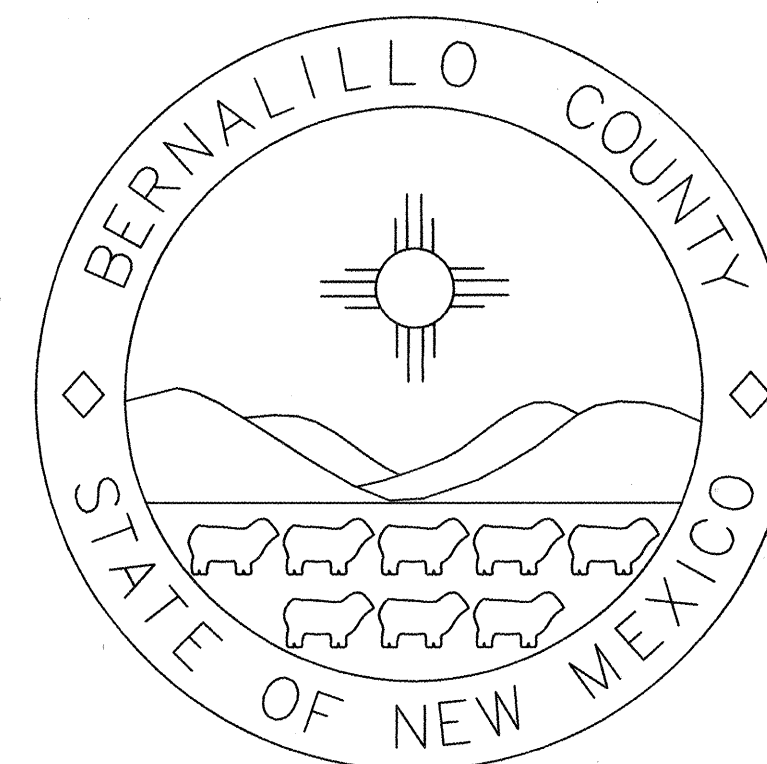
PROJECT NO. 7069.81 (SHEETS 1 THROUGH 22)

AND

LOVE ROAD PADILLA ROAD TO KARROL STREET

PROJECT NO. 7160.81 (SHEETS 1 THROUGH 10)

BERNALILLO
COUNTY
PUBLIC WORKS



STATE
OF
NEW MEXICO

"AS RECORDED"
FOR HUNTER CT
3/13/06

"AS RECORDED"
FOR ELSA DRIVE AND
BEALL ROAD ONLY
9/8/05

"AS RECORDED"
From Information
provided by the
contractors
By *[Signature]* Date 9/8/05

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
DATE 6/13/06
[Signature]

BERNALILLO COUNTY OF NEW MEXICO PUBLIC WORKS DIVISION

CONSTRUCTION PLANS FOR

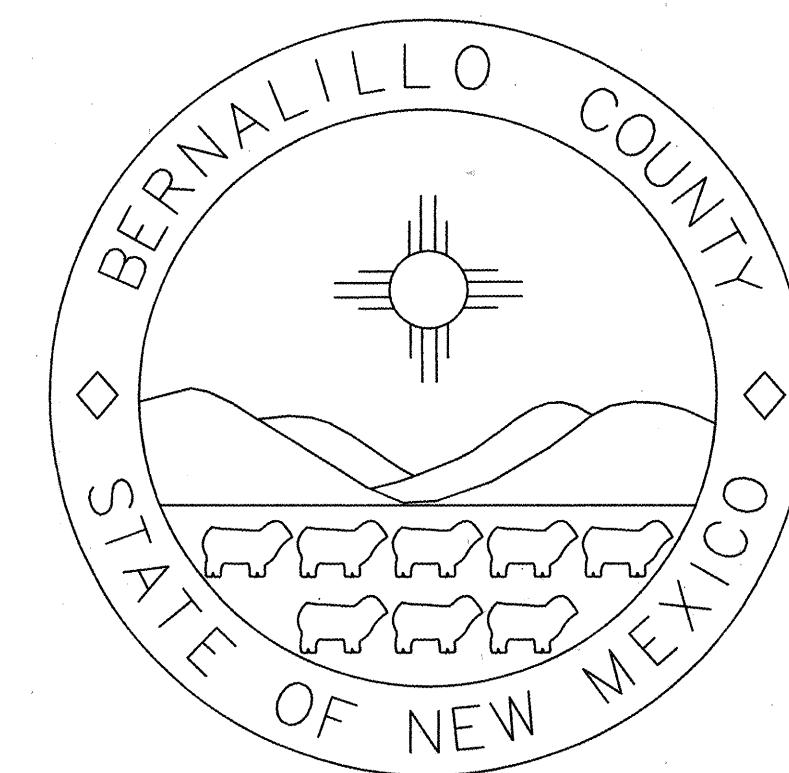
HUNTER CT. AND ELSA DR. PAVING, SEWER AND WATER IMPROVEMENTS

CERTIFICATE OF SUBSTANTIAL COMPLIANCE OF PLANS

I, Michael A. Dora of the firm Wilson & Company, a Registered Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief, that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the BCPWD and City Engineer and the original design intent of the approved plans has been met, except as noted by me on the record construction drawings, Hunter Court, Paving and Sanitary Sewer station 17+57.47 to station 38+89.96 sheets 6, 7, 8, 9, 10 & 11 of 22. Also, waterline station 25+40 to station 26+47 sheet 8 of 22. This Certification is based on site inspections by me or personnel under by direction and survey information provided by Chris A. Medina NMPS Number 15702, Terra Land Surveys, LLC.



BERNALILLO
COUNTY
PUBLIC WORKS



STATE
OF
NEW MEXICO

Certificate of Substantial Compliance for Inspection

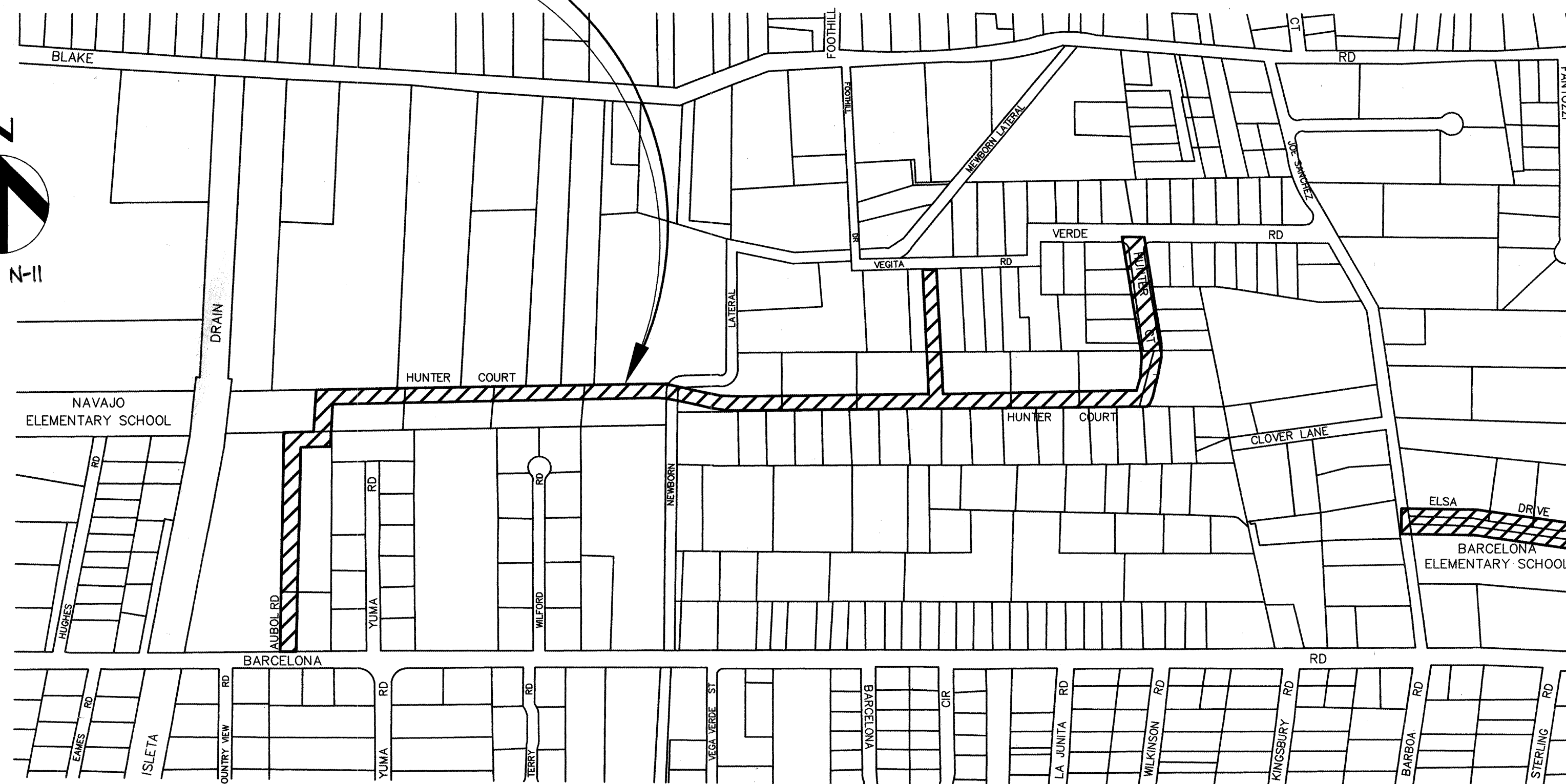
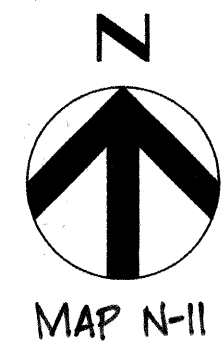
I, Doreen E. Bishop of BCPWD, a Licensed Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief that the infrastructure installed as part of this project has been inspected by me or by a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications approved by the City Engineer, except as noted on the as-built drawings. For Elsa Drive and Beall Road Only.

Certificate of Substantial Compliance with Plans and Specifications

I, Doreen E. Bishop of BCPWD, a Licensed Professional Engineer in the State of New Mexico, do hereby certify, to the best of my knowledge and belief that the infrastructure installed as part of this project substantially complies with the plans and specifications approved by the City Engineer and that the original design intent of the approved plans has been met, except as noted by me or personnel under my direction on the as-built drawings. This certification is based on survey information provided by Larry W. Medrano, NMPS number 11993 and construction plan markups provided by Star Paving Company. For Elsa Drive and Beall Road Only.

ELSA DRIVE

HUNTER COURT



ISSUED FOR CONSTRUCTION
JUNE, 2003

HDR
HDR Engineering, Inc.

A		6,7,8,9,10,11				Water Utility Dept. - Willingdale 11/17/05			
REV.		SHEETS		CITY ENGINEER		DATE		USER DEPARTMENT	
ENGINEERS STAMP & SIGNATURE				APPROVALS		ENGINEER		DATE	
				DRC Chairman		<i>[Signature]</i>		2-25-04	
				Transportation		N/A		7/8/03	
				Water/Wastewater		<i>[Signature]</i>		7/08/03	
				Hydrology		<i>[Signature]</i>		7-8-03	
				Parks					
				Const. Coord.		<i>[Signature]</i>		2-25-04	
				Record Drawing					
HDR PROJECT MANAGER WILLIAM F. ZIMMERMAN				PROJECT NO. 7069.81		SHEET OF 1 22			
						APPROVED FOR CONSTRUCTION <i>[Signature]</i> 10/15/03 COUNTY ENGINEER DATE <i>[Signature]</i> 4-08-04 CITY ENGINEER DATE			

SCANNED
BY: PLD

GENERAL NOTES:

1. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 including updates 1 through 6 (REFERRED TO HEREAFTER AS THE STANDARD SPECIFICATIONS), THE LATEST VERSION OF THE BERNALILLO COUNTY PUBLIC WORKS STANDARDS, OR AS MODIFIED BY THE PROJECT SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT N.M. ONE-CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.
3. THE CONTRACTOR SHALL EXERCISE CARE TO AVOID DISTURBING EXISTING UNDERGROUND UTILITIES. IT SHALL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CITY/COUNTY ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
5. RELOCATION OF EXISTING UTILITIES AND THE INSTALLATION OF NEW UTILITY LINES WILL BE COMPLETED IN ADVANCE OF STARTING THE PAVEMENT WORK. TEMPORARY PAVEMENT WILL BE PLACED IN ALL TRENCHES REQUIRED FOR THE UTILITY REPLACEMENTS IN THOSE AREAS THAT MUST MAINTAIN TRAFFIC UNTIL THE PAVEMENT WORK STARTS IN EACH AREA. PAVEMENT REPLACEMENT MUST CONFORM TO PROJECT SPECIFICATION 01010 SECTION 1.2.8. TEMPORARY STRIPING SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THIS WORK IS CONSIDERED INCIDENTAL TO THE PIPE LAYING PROCESS THEREFORE NO ADDITIONAL COMPENSATION WILL BE MADE.
6. ALL EXCAVATED MATERIAL THAT IS NOT REQUIRED TO BE REUSED MUST BE REMOVED FROM THE PROJECT AREA WITHIN FOUR DAYS OF EXCAVATION. SPOIL PILES WILL BE ALLOWED ONLY AS APPROVED BY THE CITY/COUNTY ENGINEER.
7. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH ALL OTHER CONTRACTORS AND UTILITY COMPANIES WORKING IN THE SAME AREA. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE THEIR ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCE CAUSED BY UTILITY COMPANY WORK CREWS.
8. WHEN ABUTTING NEW PAVEMENT TO EXISTING, CONTRACTOR SHALL SAW (MILL) CUT EXISTING PAVEMENT TO A NEAT, STRAIGHT LINE, AS REQUIRED, TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW TO EXISTING.
9. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLITION DEBRIS. SALVAGE OF ANY MATERIAL SHALL BE IDENTIFIED BY THE CITY/COUNTY ENGINEER. WORK MATERIALS SHALL BE DISPOSED OF IN COUNTY APPROVED WASTE AREAS SECURED BY AND AT THE EXPENSE OF THE CONTRACTOR.
10. ALL UTILITY LINES WHICH ARE NOT SPECIFICALLY DESIGNATED TO BE REMOVED AND REPLACED ON THE PLANS SHALL BE MAINTAINED IN SERVICE. SHORING, SHEETING, AND OTHER MEANS OF SUPPORT SHALL BE EMPLOYED BY THE CONTRACTOR TO PREVENT DAMAGE OR LOSS OF THESE EXISTING UTILITIES. BEAM AND CABLE OR OTHER ADEQUATE SUPPORTS SHALL BE USED FOR TEMPORARY SUPPORT OF ALL UTILITY LINES WHICH CROSS THE TRENCH. ANY DAMAGE TO EXISTING UTILITIES SHALL PROMPTLY BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE ENGINEER WILL BE IMMEDIATELY NOTIFIED OF ANY SIGNIFICANT DEVIATION OF EXPOSED UTILITIES FROM THE LOCATIONS SHOWN ON THE PLANS SO THAT CONFLICTS CAN BE RESOLVED IN A TIMELY MANNER.
11. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVING OR CURB AND GUTTER DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS, AND SHALL REPAIR OR REPLACE SAME, USING PATCHING COA DETAIL 2465, AT HIS OWN EXPENSE.
12. ALL ABANDONED UTILITY LINES WHICH ARE EXPOSED AS A RESULT OF CONSTRUCTION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR.
13. SPECIAL NOTICES:
- a. HAND DELIVER SPECIAL NOTICES TO EACH RESIDENCE OR BUSINESS ADJACENT TO THE CONSTRUCTION AREA AND TO OTHERS WHICH MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES. SPECIAL NOTICES ARE TO INFORM RESIDENTS AND BUSINESSES IN WRITING WHENEVER ACCESS, UTILITY SERVICES OR OTHER SERVICES TO THEIR PROPERTY MAY BE IMPAIRED.
- b. THE CONTRACTOR SHALL BE RESPONSIBLE FOR:
1. DELIVERY OF SPECIAL NOTICES NOT MORE THAN SEVEN (7) DAYS PRIOR TO PHYSICAL CONSTRUCTION THAT WILL AFFECT THE PROPERTY.
2. CORRECTED NOTICES ARE TO BE DELIVERED IF CONSTRUCTION DOES NOT START WITHIN 48 HOURS OF DATE GIVEN IN NOTICE.
3. THE WRITTEN NOTICE IS TO STATE:
- CONTRACTOR'S NAME, ADDRESS AND LOCAL TELEPHONE NUMBER
- NATURE OF WORK TO BE DONE AND TIMING OF WORK
- TYPE AND LENGTH OF DISRUPTION TO EXPECT
- EXPECTED DURATION OF CONSTRUCTION
- CONTRACTOR'S LOCAL PHONE NUMBER TO WHICH EMERGENCY CONDITIONS CAN BE REPORTED DURING NORMAL WORKING HOURS
- CONTRACTOR'S LOCAL PHONE NUMBER TO WHICH EMERGENCY CONDITIONS CAN BE REPORTED DURING NON-WORKING PERIODS.

14. SURVEY MONUMENTS DISTURBED BY CONTRACTOR SHALL BE RESTORED AT CONTRACTOR'S EXPENSE.
15. MINIMUM DENSITY FOR BACKFILL SHALL BE 95% ASTM D1557 FOR SUBGRADE AND 95% ASTM D1557 FOR BACKFILL. DENSITY TEST MINIMUM FREQUENCY SHALL BE AT 200 FT. INTERVALS FOR EACH LIFT.
16. CONTRACTOR SHALL NOTIFY THE BERNALILLO COUNTY SHERIFF'S OFFICE AND THE FIRE MARSHALL'S OFFICE WHEN SCHEDULED WORK WILL IMPACT EMERGENCY VEHICLE ACCESS.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY FOR CONSTRUCTION. PERMITS SHALL BE ACQUIRED A MINIMUM OF TWO WEEKS PRIOR TO CONSTRUCTION. CONTACT ERIC ZAMORA, BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT (848-1500) FOR INFORMATION.
18. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
19. CONTRACTOR SHALL MAINTAIN RESIDENTIAL DOMESTIC WATER SERVICE THROUGHOUT PROJECT.

M.R.G.C.D. GENERAL NOTES:

1. ANY WORK TO BE PERFORMED WITHIN THE MIDDLE RIO GRANDE CONSERVANCY DISTRICT (M.R.G.C.D.) RIGHT-OF-WAY SHALL BE CLOSELY COORDINATED WITH THE M.R.G.C.D. ENGINEERING DEPARTMENT AND APPROPRIATE FIELD OFFICE. PHONE: (505)-247-0234
2. NO WORK IS TO BE DONE ON FACILITIES OR STRUCTURES BELONGING TO, OR OPERATED BY, THE M.R.G.C.D. BETWEEN MARCH 1 AND OCTOBER 31 INCLUSIVE. HOWEVER, WORK MAY BE PERMITTED BY THE M.R.G.C.D. IF IT CAN BE SHOWN THAT THE WORK WILL NOT INTERFERE WITH OPERATIONS OF THE M.R.G.C.D. FACILITY. ALL WORK TO BE DONE WITHIN THE M.R.G.C.D. FACILITIES MUST BE APPROVED BY THE M.R.G.C.D. ENGINEER PRIOR TO COMMENCING WORK.
3. THE CONTRACTOR SHALL NOT STORE EQUIPMENT, NEW MATERIALS OR DEBRIS WITHIN DISTRICT RIGHT-OF-WAY WHICH MAY INTERFERE WITH OPERATIONS AND MAINTENANCE OF THE M.R.G.C.D. FACILITY.
4. THE CONTRACTOR SHALL NOT SERVICE VEHICLES OR EQUIPMENT WITHIN M.R.G.C.D. RIGHT-OF-WAY.
5. SEEDING OF DISTURBED AREAS WITHIN THE M.R.G.C.D. RIGHTS OF WAY IS REQUIRED PER THE M.R.G.C.D. SEEDING SPECIFICATIONS.
6. THE CONTRACTOR MUST MAINTAIN A MINIMUM COVER OF 3' OVER ALL CULVERT CROSSINGS USED FOR ACCESS TO THE PROJECT SITE.
7. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING AND OR REPLACEMENT OF ANY STRUCTURES REMOVED AND OR DAMAGED DUE TO THE CONTRACTORS ACTIVITIES WITHIN THE DISTRICTS RIGHT-OF-WAY. SHOULD ANY TURNOUTS, CULVERT PIPES, AND OR STRUCTURES REQUIRE REPLACEMENT DUE TO LEAKAGE AND OR DAMAGE BY THE CONTRACTOR, NEW TURNOUTS, AND NEW CULVERT PIPES AND OR NEW STRUCTURES SHALL REPLACE THE DAMAGED ITEM. REPAIRS AND OR REPLACEMENTS WITHIN THE DISTRICTS RIGHT-OF-WAY MUST COMPLY WITH THE DISTRICTS SPECIFICATIONS.
8. ALL DAMAGED CULVERT CROSSINGS AND CULVERT CROSSINGS REMOVED AND OR DISTURBED MUST BE RESTORED AND/OR REPLACED TO THE SATISFACTION OF THE M.R.G.C.D. AND COMPLY WITH M.R.G.C.D. SPECIFICATIONS.
9. ALL SALVAGEABLE CULVERTS, IRRIGATION GATES, ETC. MUST BE RETURNED TO M.R.G.C.D..
10. THE CONTRACTOR IS RESPONSIBLE FOR EXECUTING A "SPECIAL USE LICENSE AGREEMENT" WITH THE M.R.G.C.D. PRIOR TO CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED TO THE CONTRACTOR FOR THIS "SPECIAL USE LICENSE AGREEMENT".
11. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE MIDDLE RIO GRANDE CONSERVANCY DISTRICT (MRGCD) AT 247-0234 TO PROVIDE NOTICE OF THE SCHEDULE FOR CONSTRUCTION AT THE MRGCD FACILITIES. ALL WORK TO BE PERFORMED IN THE MRGCD RIGHT-OF-WAY SHALL BE CLOSELY COORDINATED WITH MRGCD. MRGCD WILL REQUIRE THE CONTRACTOR TO SIGN A SPECIAL USE PERMIT AND PROVIDE A \$2,500 SECURITY DEPOSIT PRIOR TO WORKING IN MRGCD R/W.
12. REINFORCED CONCRETE PIPE CULVERT SHALL CONFORM TO ASTM DESIGNATION 076-72, CLASS III, WALL B, USING "O" RING GASKETED JOINTS.
13. CORRUGATED METAL PIPE CULVERT SHALL CONFORM TO INTERIM FEDERAL SPECIFICATION WW-P-00405, CLASS I AND II, SHAPES 1,2, AND 3.
14. CULVERT CROSSINGS SHALL BE SET AT AN ELEVATION PROVIDING A MAXIMUM BACK WATER EFFECT OF NOT MORE THAN 0.25' AS DETERMINED BY HYDRAULIC COMPUTATIONS.
15. TRANSITIONS SHALL BE PROVIDED AT BOTH INLET AND OUTLET OF THE PIPE AS SHOWN ON THE DRAWINGS. TRANSITIONS MAY BE CONSTRUCTED OF CONCRETE OR GROUTED RIP-RAP.
16. GROUTED RIP-RAP PROTECTION SHALL BE USED ADJACENT TO STRUCTURES IN EARTH-SURFACED WATERWAYS WHERE EROSION MAY OCCUR. RIP-RAP SHALL BE HARD, DENSE, AND DURABLE.
17. ALL BACKFILL SHALL BE COMPACTED TO 90% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM PROCTOR TEST, 95% FOR ROADWAYS.
18. NO CULVERT INSTALLATIONS ARE PERMITTED DURING THE IRRIGATION SEASON (MARCH 1 TO NOVEMBER 1 INCLUSIVE).
19. THE LICENSEE SHALL CLEAN AND REMOVE ALL SILT AND DEBRIS WITHIN THE CULVERT CROSSING ON A ANNUAL BASIS PRIOR TO MARCH 1st AND THEREAFTER.
20. THE LICENSEE SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE CULVERT CROSSING AND ALL ACCESSORIES ON THE CULVERT CROSSING.
21. THE LICENSEE SHALL BE RESPONSIBLE FOR THE CONTROL OF VEGETATION ON AND AROUND THE CULVERT CROSSING.
22. PRIOR TO ANY CONSTRUCTION WITHIN M.R.G.C.D. THE CONTRACTOR MUST SIGN A SPECIAL USE PERMIT AND PAY M.R.G.C.D. AN ASSOCIATED REFUNDABLE SECURITY DEPOSIT TO ENSURE PERFORMANCE.

USEPA GENERAL NOTES:

1. IF ANY THREATENED OR ENDANGERED SPECIES OR THEIR HABITATS ARE DISCOVERED DURING CONSTRUCTION, WORK WILL CEASE IMMEDIATELY AND THE EPA WILL BE NOTIFIED IN ORDER THAT APPROPRIATE MEASURES CAN BE TAKEN IN ACCORDANCE WITH THE ENDANGERED SPECIES ACT.
2. CONSTRUCTION MATERIAL AND WASTE PRODUCTS, INCLUDING MACHINERY LEAKING, MAINTENANCE MATERIAL AND SPILLS, WILL BE CONTAINED AND PROPERLY DISPOSED PRIOR TO PROJECT COMPLETION.
3. IF HUMAN REMAINS ARE ENCOUNTERED DURING CONSTRUCTION, APPROPRIATE LAW ENFORCEMENT AUTHORITIES AND THE OFFICE OF THE MEDICAL EXAMINER WILL BE CONTACTED.
4. IF CULTURAL MATERIALS ARE DISCOVERED DURING CONSTRUCTION, WORK WILL CEASE IMMEDIATELY AND EPA AND THE NEW MEXICO STATE HISTORIC PRESERVATION OFFICER WILL BE NOTIFIED OF THE DISCOVERY. EPA WILL PROCEED IN ACCORDANCE WITH THE REGULATIONS OF THE ADVISORY COUNCIL ON HISTORIC PRESERVATION PRIOR TO TAKING ANY ACTION WHICH WOULD AFFECT THE CULTURAL RESOURCES.

EFFECTIVE JULY 1, 2003, THE ALBUQUERQUE-BERNALILLO WATER UTILITY AUTHORITY WAS ESTABLISHED AS A JOINT CITY OF ALBUQUERQUE-BERNALILLO COUNTY AGENCY TO ADMINISTER THE WATER AND WASTEWATER UTILITIES CURRENTLY OWNED AND OPERATED BY THE CITY OF ALBUQUERQUE. THIS PROJECT WILL BE CONSTRUCTED DURING THE TRANSITION PERIOD WHILE THE CITY IS TO TRANSFER ALL FUNCTIONS, APPROPRIATIONS, MONEY, RECORDS, EQUIPMENT, AND OTHER REAL AND PERSONAL PROPERTY TO THE AUTHORITY. AT THE TIME THAT THESE PLANS WERE PREPARED, THE SPECIFIC DETAILS OF THE TRANSITION WERE NOT AVAILABLE TO THE ENGINEER OR OWNER. REFERENCES TO THE CITY OF ALBUQUERQUE IN THESE PLANS OR IN THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION THROUGH UPDATE #6, MAY BE AFFECTED. AS SUCH THE CONTRACTOR MAY BE REQUIRED TO COORDINATE ALL NECESSARY ACTIVITIES WITH THE PROJECT ENGINEER AND THE ALBUQUERQUE-BERNALILLO WATER UTILITY AUTHORITY DURING THE CONSTRUCTION CONTRACT PERIOD.

EXISTING FEATURES LEGEND:

- EXISTING BARBED WIRE FENCE
- EXISTING CHAINLINK FENCE
- EXISTING WOOD / PIPE FENCE
- EXISTING WATERLINE W/ VALVE
- EXISTING FIRE HYDRANT
- EXISTING SANITARY SEWER LINE W/ MANHOLE
- EXISTING HIGH PRESSURE GASLINE
- EXISTING POWER LINE W/ POWER POLE
- EXISTING EDGE OF PAVEMENT / GRAVEL
- EXISTING CONCRETE
- EXISTING BUILDING LINE
- EXISTING EASEMENT LINE
- EXISTING RIGHT-OF-WAY / PROPERTY LINE
- PROPOSED LOT LINE

NEW FEATURES LEGEND:

- CONSTRUCTION CENTERLINE
- NEW CHAIN-LINK FENCE
- NEW WATERLINE W/ VALVE
- NEW FIRE HYDRANT
- NEW WATER METER
- NEW SANITARY SEWER LINE W/ MANHOLE
- NEW EASEMENT LINE
- NEW EDGE OF PAVEMENT

SHEET DESCRIPTION

- 1 COVER SHEET
- 2 GENERAL NOTES, SHEET INDEX, & LEGEND
- 3A HUNTER COURT OVERALL PLAN, EASEMENTS, & SURVEY CONTROL
- 3B ELSA DRIVE OVERALL PLAN & SURVEY CONTROL
- 4 HUNTER COURT: PLAN & PROFILE STA. 5+00 TO 10+00
- 5 HUNTER COURT: PLAN & PROFILE STA. 10+00 TO 14+75
- 6 HUNTER COURT: PLAN & PROFILE STA. 14+75 TO 19+40
- 7 HUNTER COURT: PLAN & PROFILE STA. 19+40 TO 24+00
- 8 HUNTER COURT: PLAN & PROFILE STA. 24+00 TO 28+60
- 9 HUNTER COURT: PLAN & PROFILE STA. 28+60 TO 33+20
- 10 HUNTER COURT: PLAN & PROFILE STA. 33+20 TO 37+80
- 11 HUNTER COURT: PLAN & PROFILE STA. 37+80 TO 40+00
- 12 WATERLINE EASEMENT: PLAN STA. 5+00 TO 14+72.02
- 13 SEWERLINE EASEMENT: PLAN & PROFILE STA. 5+00 TO 9+93.03
- 14 ELSA DRIVE: PLAN & PROFILE STA. 10+00 TO 14+60
- 15 ELSA DRIVE: PLAN & PROFILE STA. 14+60 TO 18+60
- 15A BEALL ROAD: PLAN AND PROFILE STA. 10+00 TO 12+33
- 16 WATERLINE DETAILS
- 17 WATER SHUT-OFF PLAN
- 18 ROADWAY TYPICAL SECTION & DETAILS
- 19 HUNTER COURT CULVERT PROFILES
- 20 MRGCD NEWBORN LATERAL PROFILE & CULVERT DETAILS
- 21 SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
- 22 TYPICAL TRAFFIC CONTROL AND SIGNING

HDR PROJECT No.: 08429-020-035	
HDR HDR Engineering, Inc.	
2155 LOUISIANA BLVD., NE SUITE 9500 ALBUQUERQUE, NM 87110 PHONE: (505) 864-5065 FAX: (505) 864-5969	
BERNALILLO COUNTY PUBLIC WORKS DIVISION	
TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT GENERAL NOTES, SHEET INDEX, AND LEGEND	
Design Review Committee	City Engineer Approval
APPROVED	APR - 8 2004
CITY ENGINEER	
City Project No.	Zone Map No.
7069.81	N-11
Sheet	Of
2	22

SCANNED BY PLW

CONSTRUCTION CENTERLINE INFORMATION FOR HUNTER COURT

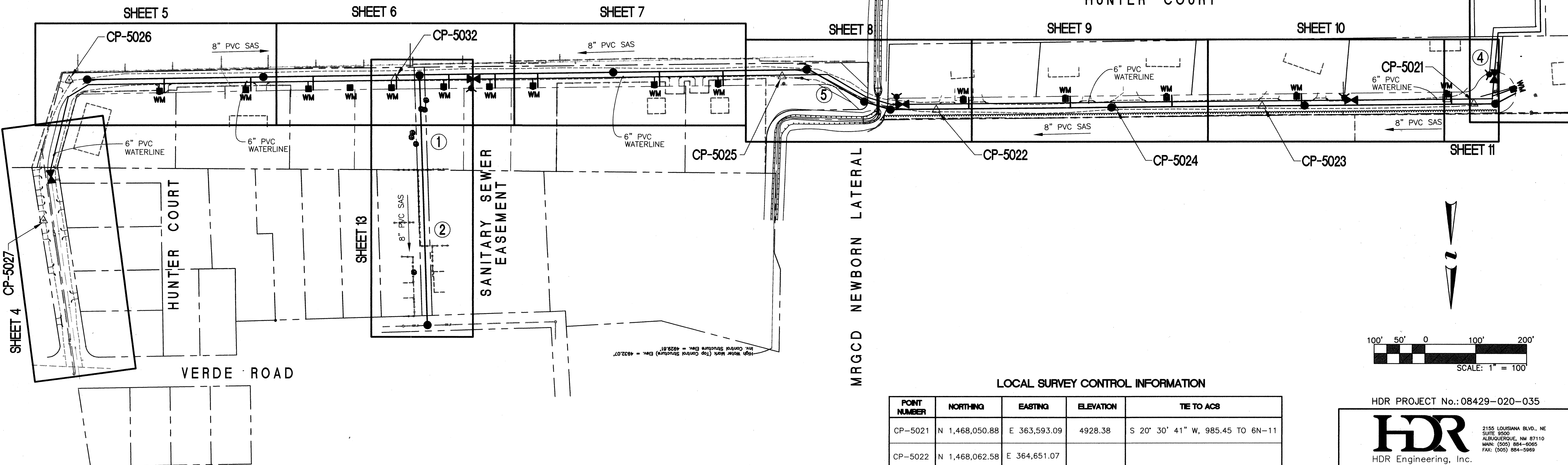
Desc.	Station	Data	Northing	Easting	Desc.	Station	Data	Northing	Easting
PI	5+00	Length: 407.92 Course: S 08-14-22 E	1468580.2575	366345.0523					
PI	9+07.92	Length: 177.82 Course: S 13-37-55 W	1468176.5523	366403.5104					
	5+00	Tangent Data	1468580.2575	366345.0523					
	8+69.27	Length: 369.27 Course: S 08-14-22 E	1468214.7965	366397.9725					
PC	8+69.27	Circular Curve Data	1468214.7965	366397.9725					
CC	9+45.62	Delta: 21-52-17 Type: RIGHT	1468186.1346	366200.0369					
PT		Radius: 200.00 DOC: 28-38-52	1468138.9978	366394.4028					
		Length: 76.35 Tangent: 38.64							
		Mid-Ord: 3.63 External: 3.70							
		Chord: 75.88 Course: S 02-41-47 W							
		Es: 3.70							
PI	10+84.80	Length: 1480.74 Course: S 89-12-04 W	1468003.7390	366361.6004					
		Delta: 75-34-09							
		Tangent Data	1468138.9978	366394.4028					
	9+45.62	Length: 69.41 Course: S 13-37-55 W	1468071.5459	366378.0447					
	10+15.03								
PC	10+15.03	Circular Curve Data	1468071.5459	366378.0447					
CC	11+33.73	Delta: 75-34-09 Type: RIGHT	1468092.7575	366290.5800					
PT		Radius: 90.00 DOC: 63-39-43	1468002.7662	366291.8348					
		Length: 118.70 Tangent: 69.77							
		Mid-Ord: 18.87 External: 23.88							
		Chord: 110.28 Course: S 51-25-00 W							
		Es: 23.88							
PI	25+24.70	Length: 165.44 Course: N 61-39-01 W	1467983.3724	364900.9975					
		Delta: 29-08-55							

CONSTRUCTION CENTERLINE INFORMATION FOR WATERLINE EASEMENT

Desc.	Station	Spiral/Curve Data	Northing	Easting
PI	5+00	Length: 140.19 Course: S 05-04-39 W	1468050.9988	363557.9491
PI	6+40.19	Length: 83.69 Course: S 88-48-29 W	1467911.3575	363545.5417
		Delta: 83-43-50		
	5+00	Tangent Data	1468050.9988	363557.9491
	6+40.19	Length: 140.19 Course: S 05-04-39 W	1467911.3575	363545.5417
PI	7+23.88	Length: 748.14 Course: S 00-37-55 E	1467909.6166	363461.8699
		Delta: 89-26-24		
	6+40.19	Tangent Data	1467911.3575	363545.5417
	7+23.88	Length: 83.69 Course: S 88-48-29 W	1467909.6166	363461.8699
PI	14+72.02	Length: 748.14 Course: S 00-37-55 E	1467161.5271	363470.1213
		Delta: 89-26-24		
	7+23.88	Tangent Data	1467909.6166	363461.8699
	14+72.02	Length: 748.14 Course: S 00-37-55 E	1467161.5271	363470.1213
Desc.	Station	Spiral/Curve Data	Northing	Easting
PI	5+00	Length: 493.03 Course: S 01-47-33 E	1468486.8577	365652.7318
PI	9+93.03	Length: 493.03 Course: S 01-47-33 E	1467994.0696	365668.1537
	5+00	Tangent Data	1468486.8577	365652.7318
	9+93.03	Length: 493.03 Course: S 01-47-33 E	1467994.0696	365668.1537

CONSTRUCTION CENTERLINE INFORMATION FOR SANITARY SEWER EASEMENT

Desc.	Station	Spiral/Curve Data	Northing	Easting
PI	5+00	Length: 493.03 Course: S 01-47-33 E	1468486.8577	365652.7318
PI	9+93.03	Length: 493.03 Course: S 01-47-33 E	1467994.0696	365668.1537
	5+00	Tangent Data	1468486.8577	365652.7318
	9+93.03	Length: 493.03 Course: S 01-47-33 E	1467994.0696	365668.1537



EASEMENT TABLE

ID NO.	LINE NO.	EASEMENT NO.	SHEET NO.	OWNER	EASEMENT AREA SQ. FT.	PROPERTY / TRACT NO.	RECORD INFO BOOK/PAGE
1	1	1	13	CECILLIA PADILLA	4,027	TRACT D-3, D-4	2003C/104
2	1	2	13	LORI GUNNARE	5,749	TRACT 12, ARENAL ACRES	A71/8057
3	2	1	12	GENEVA AUBOL	16,841	TRACT A-1-a AUBOL'S ACRES	A71/8059
4	2	2	12	RICHARD & PATRICIA BAROS	3,017	LOT 2, TRACT 136	A71/8058
5	NA	NA	8	PETE ROMERO	553	TRACT D1	NA

- EASEMENT KEY
- ① SANITARY SEWER EASEMENT LINE #1, EASEMENT #1
 - ② SANITARY SEWER EASEMENT LINE #1, EASEMENT #2
 - ③ WATERLINE EASEMENT LINE #2, EASEMENT #1
 - ④ WATERLINE EASEMENT LINE #2, EASEMENT #2

LOCAL SURVEY CONTROL INFORMATION

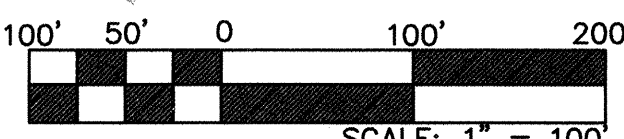
POINT NUMBER	NORTHING	EASTING	ELEVATION	TIE TO ACS
CP-5021	N 1,468,050.88	E 363,593.09	4928.38	S 20° 30' 41" W, 985.45 TO 6N-11
CP-5022	N 1,468,062.58	E 364,651.07		
CP-5023	N 1,468,055.49	E 364,009.98	4928.35	
CP-5024	N 1,468,058.70	E 364,300.72	4928.38	
CP-5025	N 1,467,996.77	E 364,954.30		
CP-5026	N 1,468,003.61	E 366,357.54		
CP-5027	N 1,468,279.63	E 366,408.37	4930.00	S 38° 37' 34" E, 1471.78' TO 5-N11
CP-5032	N 1,468,000.48	E 365,715.83		

BARCELONA ROAD

WATERLINE EASEMENT

SHEET 12

AUBOL ROAD



HDR PROJECT No.: 08429-020-035

HDR
HDR Engineering, Inc.
2155 LOUISIANA BLVD., NE
SUITE 9500
ALBUQUERQUE, NM 87110
PHONE: (505) 884-6000
FAX: (505) 884-9999

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT
OVERALL PLAN, EASEMENTS, AND SURVEY CONTROL

Design Review Committee	City Engineer Approval	No. / Day / Yr.	No. / Day / Yr.
	APR - 8 2004		
	CITY ENGINEER		

City Project No.	Zone Map No.	Sheet	Of
7069.81	N-11	3A	22

SCANNED BY *PLW*

CONSTRUCTION CENTERLINE INFORMATION
FOR ELSA DRIVE

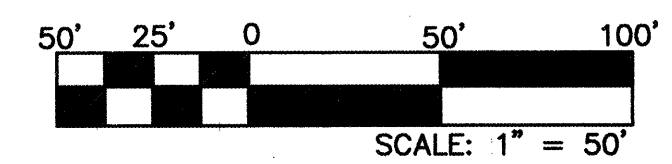
Desc.	Station	Spiral/Curve Data	Northing	Easting	Desc.	Station	Spiral/Curve Data	Northing	Easting
PI	10+00	Length: 258.88 Course: N 88-59-45 E	1467567.88	367227.95		16+46.93	Tangent Data	1467539.68	367873.46
						16+74.27	Length: 27.34 Course: S 85-16-41 E	1467537.43	367900.71
PI	12+58.88	Length: 388.05 Delta: 5-50-39	1467572.42	367486.79	PI	17+67.81	Length: 49.80 Delta: 3-16-02	1467532.99	367994.14
	10+00	Tangent Data	1467567.88	367227.95		16+74.27	Tangent Data	1467537.43	367900.71
	12+58.88	Length: 258.88 Course: N 88-59-45 E	1467572.42	367486.79		17+67.81	Length: 93.54 Course: S 87-16-53 E	1467532.99	367994.14
PI	16+46.93	Length: 27.34 Delta: 0-07-05	1467539.68	367873.46	PI	18+17.61	Length: 56.82 Delta: 0-21-59	1467527.80	368043.67
	12+58.88	Tangent Data	1467572.42	367486.79		17+67.81	Tangent Data	1467532.99	367994.14
	16+46.93	Length: 388.05 Course: S 85-09-35 E	1467539.68	367873.46		18+17.61	Length: 49.80 Course: S 84-00-51 E	1467527.80	368043.67
PI	16+74.27	Length: 93.54 Delta: 2-00-13	1467537.43	367900.71	PI	18+74.43		1467522.23	368100.22
						18+17.61	Tangent Data	1467527.80	368043.67
						18+74.43	Length: 56.82 Course: S 84-22-50 E	1467522.23	368100.22

JOE SANCHEZ ROAD

SHEET 14

SHEET 15

ELSA DRIVE



HDR PROJECT No.: 08429-020-035



LOCAL SURVEY CONTROL INFORMATION

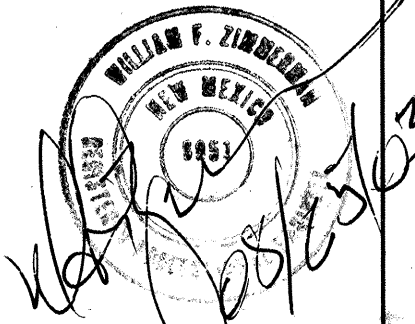
POINT NUMBER	NORTHING	EASTING	ELEVATION
CP-101	N 1,467,565.06	E 367,238.46	4927.95
CP-102	N 1,467,550.89	E 367,707.27	4928.64
CP-103	N 1,467,562.21	E 367,707.27	4928.42

TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT

OVERALL PLAN AND SURVEY CONTROL

Design Review Committee	City Engineer Approval	No. / Day / Yr.	No. / Day / Yr.
City Project No.	Zone Map No.	Sheet	Of
7069.81	N-11	38	22

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
FIELD NOTES	DATE	CONTRACTOR	DATE	WORK STAKED BY	DATE
NO. 1	RED MOUNTAIN	ACS Monument Stamped "5-N1"		ACCEPTANCE BY	DATE
		3 1/4" Aluminum Tablet set in concrete flush w/ asphalt at the intersection of Barcelona Road, Barboa Road, and Joe Sanchez Road.		FIELD LOCATION BY	DATE
		Geographic Position (NAD 1927) in feet		DRAWN BY	DATE
		N.M. State Plane Coordinates (Central Zone)		CHECKED BY	DATE
		X = 367,209.56, Y = 1,466,660.34		RECORDED BY	DATE
		Elevation = 4927.562, NGVD29, in feet			
		Ground to Grid Factor = 0.99968444			

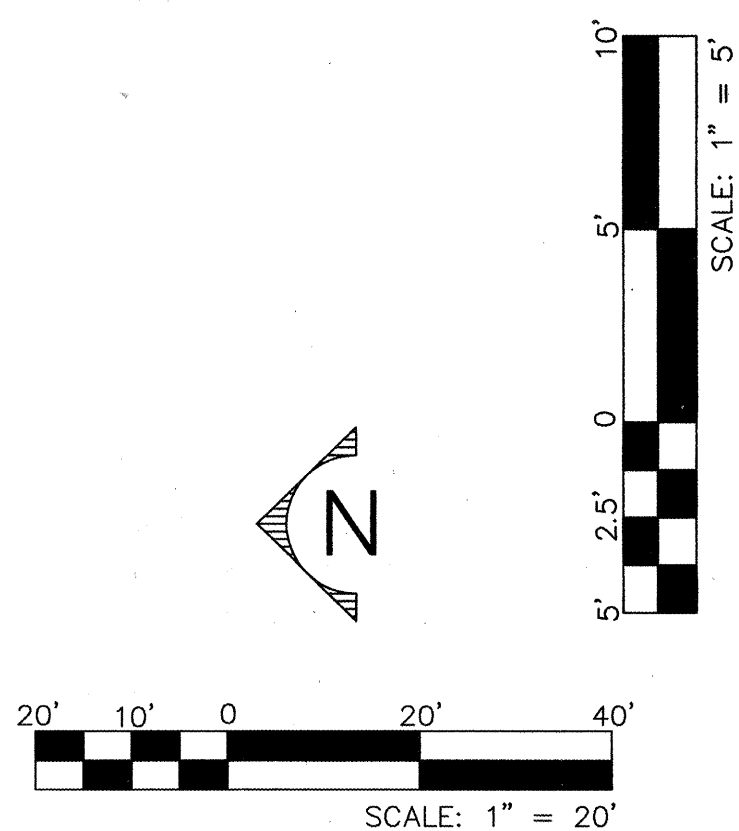




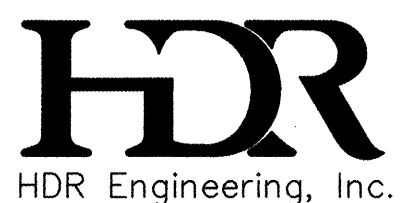
1. EDGE OF NEW ASPHALT ROADWAY. SEE SECTION ON SHEET 18.
2. NEW 6" PVC WATERLINE.
3. EXISTING EDGE OF ASPHALT
4. EXISTING EDGE OF GRAVEL. GRAVEL ROADWAY TO BE MILLED INTO NEW ASPHALT SUBBASE.
5. ALL EXISTING FENCES TO REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION.
6. MATCH NEW ASPHALT PAVEMENT WITH EXISTING DRIVE (TYPICAL ALL DRIVEWAYS).

WATER TABLE IS EXPECTED AT
APPROXIMATELY 6'-8' BELOW
EXISTING GROUND

CURVE DATA				
NO.	DELTA	RADIUS	LEN.	TAN.
1	100°40'21"	30.00'	52.71'	36.18'
2	79°19'39"	30.00'	41.54'	24.87'
3	21°52'17"	200.00'	76.35'	38.64'



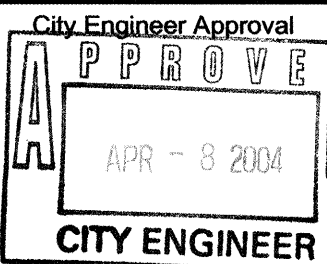
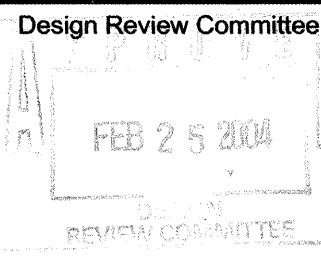
HDR PROJECT No.: 08429-020-035



2155 LOUISIANA BLVD., NE
SUITE 9500
ALBUQUERQUE, NM 87110
MAIN: (505) 884-6065
FAX: (505) 884-5969

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT
HUNTER COURT: STA. 5+00 TO STA. 10+00



City Project No. _____

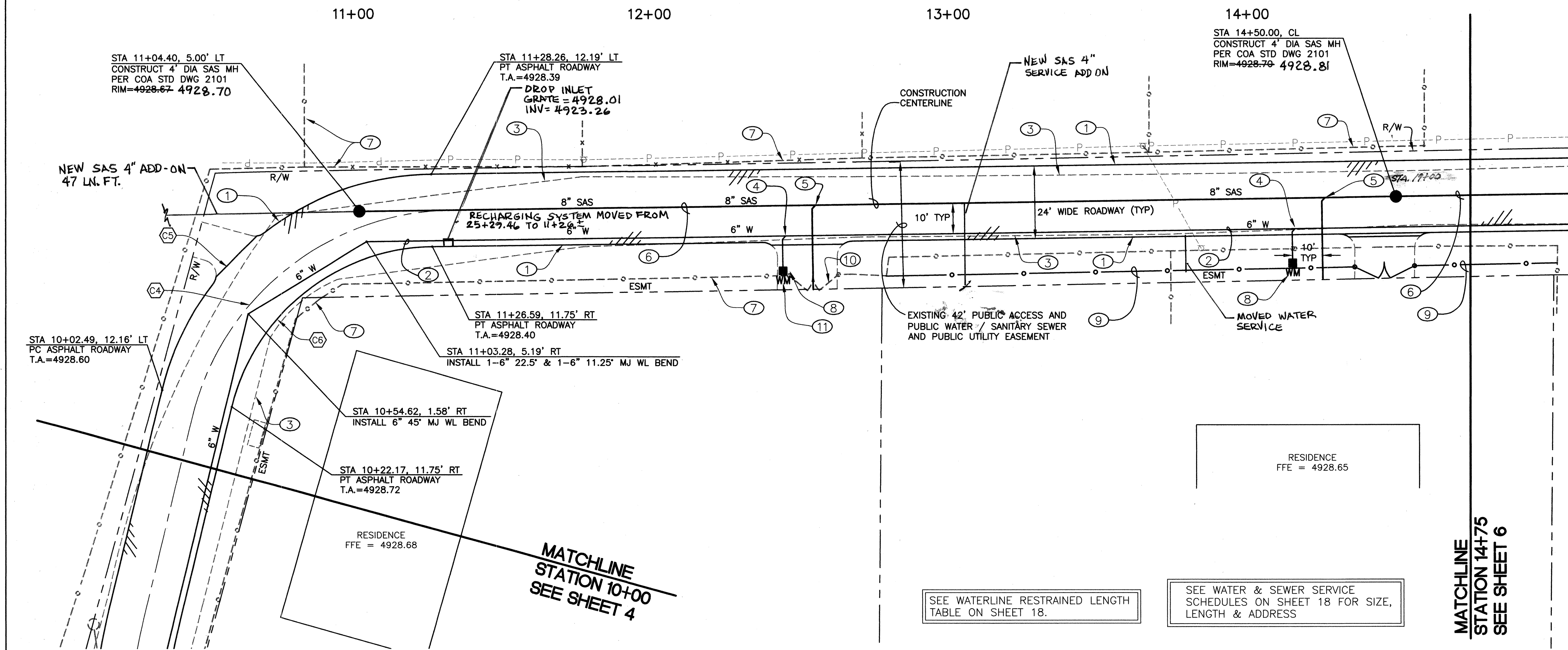
7069.81

Zone Map No.

Sheet

Of

SCANNED
BY PLJ



KEYED NOTES:

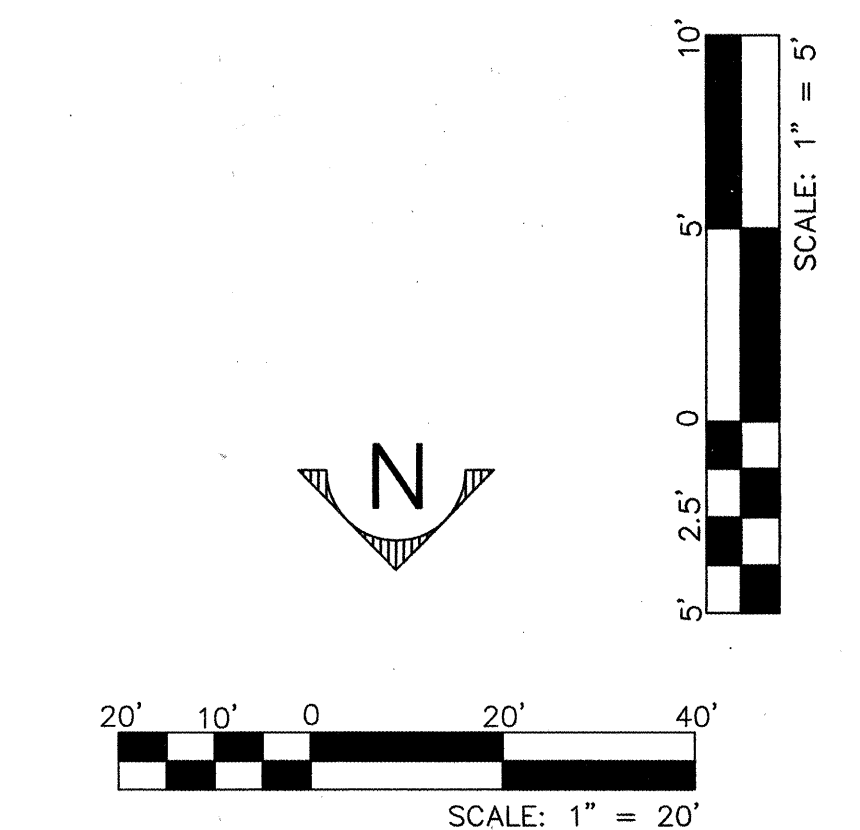
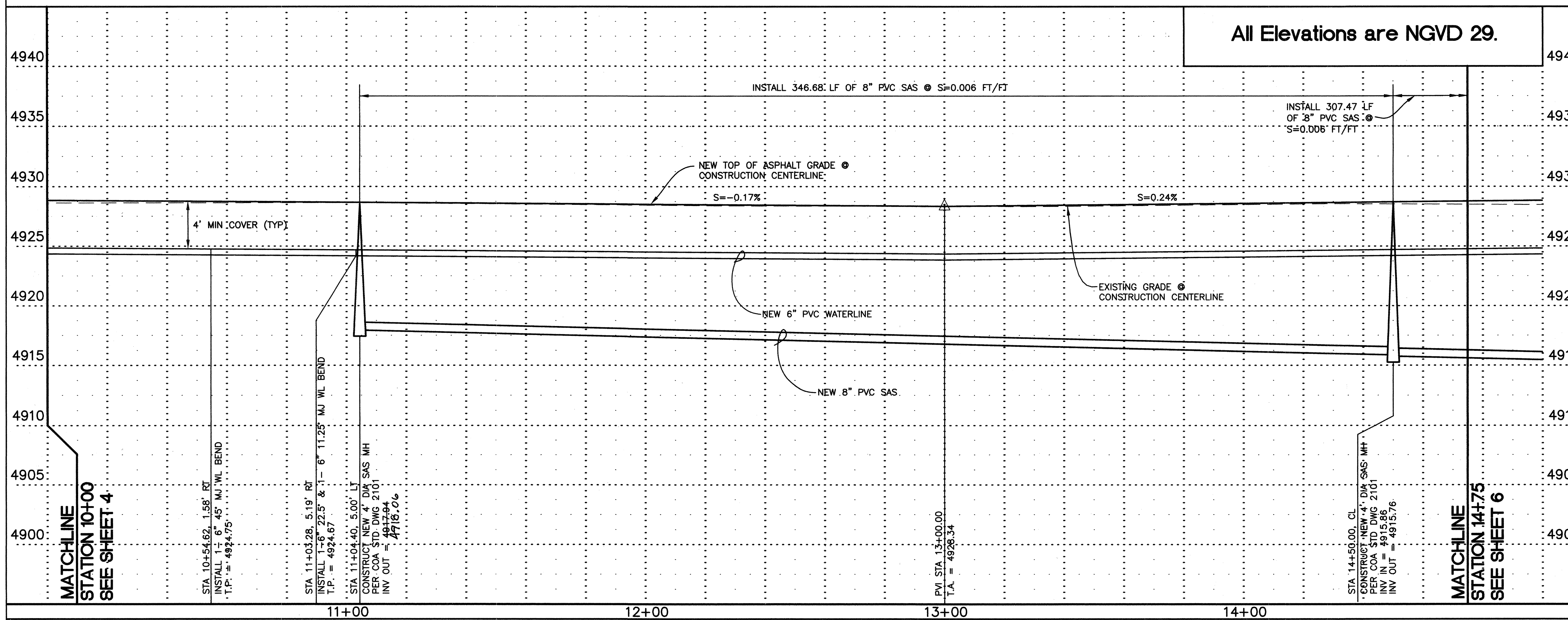
- EDGE OF NEW ASPHALT ROADWAY. SEE SECTION ON SHEET 18.
- NEW 6" PVC WATERLINE.
- EXISTING EDGE OF GRAVEL. GRAVEL ROADWAY TO BE MILLED INTO NEW ASPHALT SUBBASE.
- NEW 3/4" WATER LINE SERVICE PER DETAIL ON SHEET 16.
- NEW 4" SANITARY SEWER SERVICE LINE PER C.O.A. STD. DWG. 2125.
- NEW 8" PVC SAS.
- EXISTING FENCE TO REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION.
- SEE SHEET 16 FOR DETAIL OF WATER METER BOX.
- REMOVE & REINSTALL FENCE TO LOCATION SHOWN.
- EXISTING FENCE & GATE TO REMAIN UNDISTURBED THROUGH CONSTRUCTION.
- HEAVY WEIGHT BOX COVER AND LID PER C.O.A. STD DWG 2369.

WATER TABLE IS EXPECTED AT
APPROXIMATELY 6'-8" BELOW
EXISTING GROUND

CURVE DATA

NO.	DELTA	RADIUS	LEN.	TAN.
4	75°34'09"	90.00'	18.70'	69.77'
5	75°34'09"	94.00'	123.98'	72.87'
6	75°34'09"	70.00'	92.33'	54.27'

HUNTER COURT



HDR
HDR Engineering, Inc.

2155 LOUISIANA BLVD., NE
SUITE 9500
ALBUQUERQUE, NM 87110
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FAX: (505) 884-5989

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT
HUNTER COURT: STA. 10+00 TO STA. 14+75

Design Review Committee

City Engineer Approval

APPROVE

CITY ENGINEER

Last Design Update

No. / Day / Yr.

No. / Day / Yr.

DESIGNED BY WfZ DATE 6/03

DRAWN BY WfZ DATE 6/03

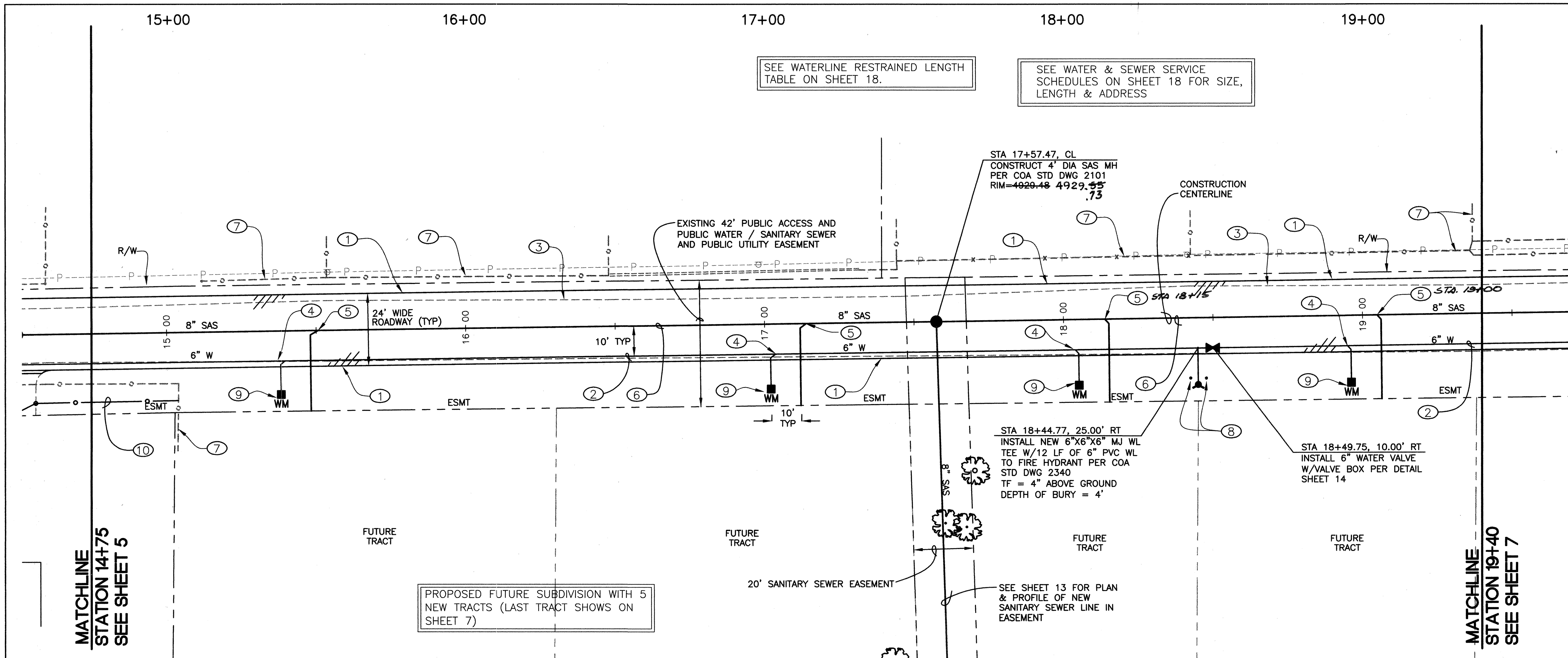
CHECKED BY WfZ DATE 6/03

City Project No. 7069.81

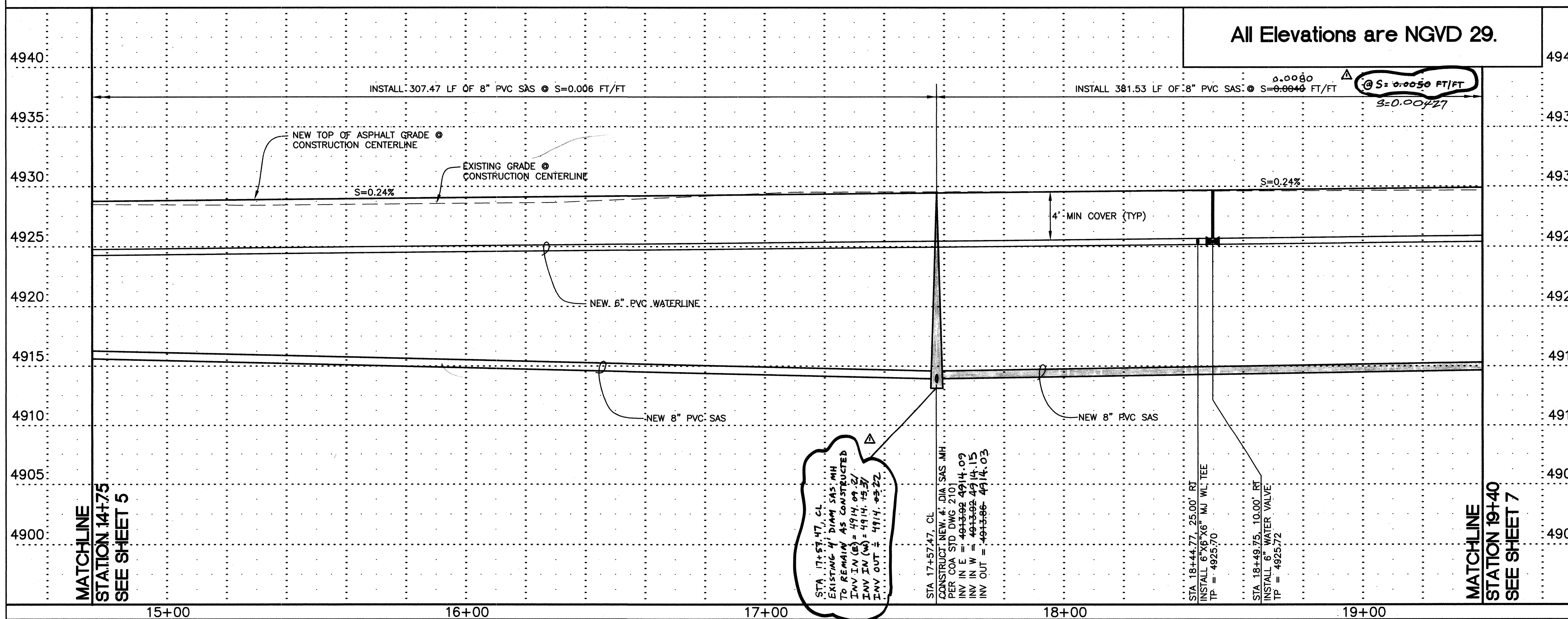
Zone Map No. N-11

Sheet 5 of 22

SCANNED BY PLU



HUNTER COURT



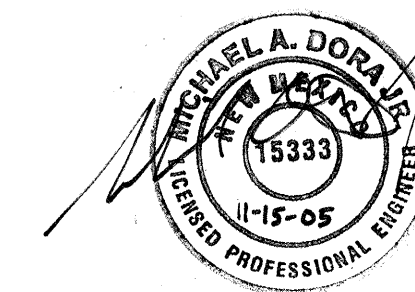
All Elevations are NGVD 29.

KEYED NOTES:

- EDGE OF NEW ASPHALT ROADWAY. SEE SECTION ON SHEET 18.
- NEW 6" PVC WATERLINE.
- EXISTING EDGE OF GRAVEL ROADWAY TO BE MILLED INTO NEW ASPHALT SUBBASE.
- NEW 3/4" WATER LINE SERVICE PER DETAIL ON SHEET 16.
- NEW 4" SANITARY SEWER SERVICE LINE PER C.O.A. STD. DWG. 2125.
- NEW 8" PVC SAS.
- EXISTING FENCE TO REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION.
- INSTALL PERMANENT BOLLARDS PER COA STD DWG 2723.
- SEE SHEET 16 FOR DETAIL OF WATER METER BOX.
- REMOVE & REINSTALL FENCE TO LOCATION SHOWN.

WATER TABLE IS EXPECTED AT APPROXIMATELY 6'-8" BELOW EXISTING GROUND

REV. 1 CHANGES SEALED HERE WITH ON 11-15-05, APPLY ONLY TO INDICATED SAS REDESIGN



NOTE: RE-LAY SANITARY SEWER SERVICES AS REQUIRED

RECORD DRAWING
DATE 3-15-06



HDR PROJECT No.: 08429-020-035

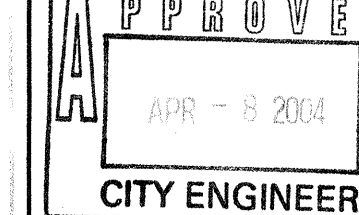


BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT
HUNTER COURT: STA. 14+75 TO STA. 19+40

Design Review Committee

City Engineer Approval



Last Design Update

City Project No.

7069.81

Zone Map No.

N-11

Sheet

6

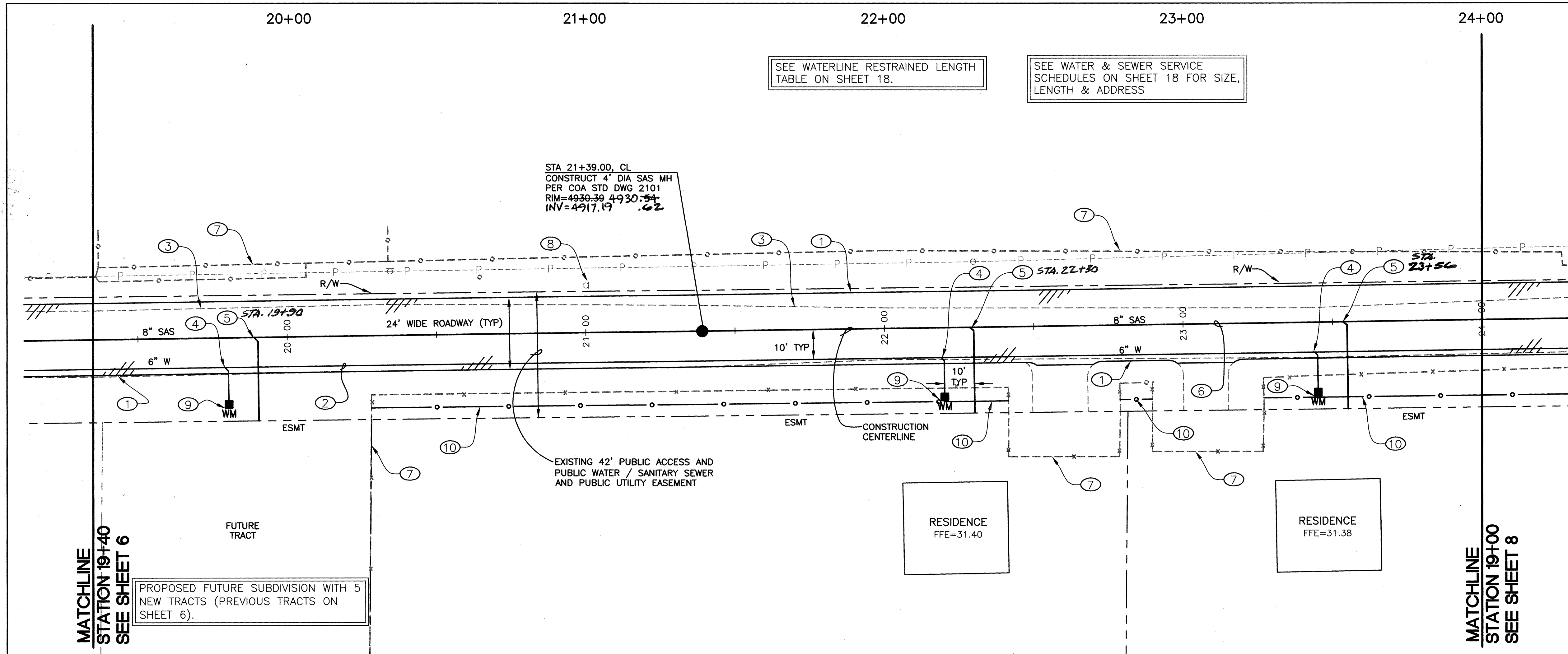
Of

22

AS BUILT INFORMATION	
CONTRACTOR	STAR PAVING
WORKS BY	TERRA LAND SURDATE 3-06
INSPECTION	ACCEPTANCE BY NIELSON CO. DATE 3-06
VERIFICATION	BY NIELSON CO. DATE 3-06
DRAMING	BY NIELSON CO. DATE 3-06
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	NO.

SURVEY INFORMATION	
DATE	BY
1	RED MOUNTAIN
ENGINEERS SEAL	
MAP	BY
REVISIONS	REMARKS
NO.	DATE
DESIGNED BY	Wfz
DRAWN BY	HDR
CHECKED BY	Wfz

SCANNED
BY PLW

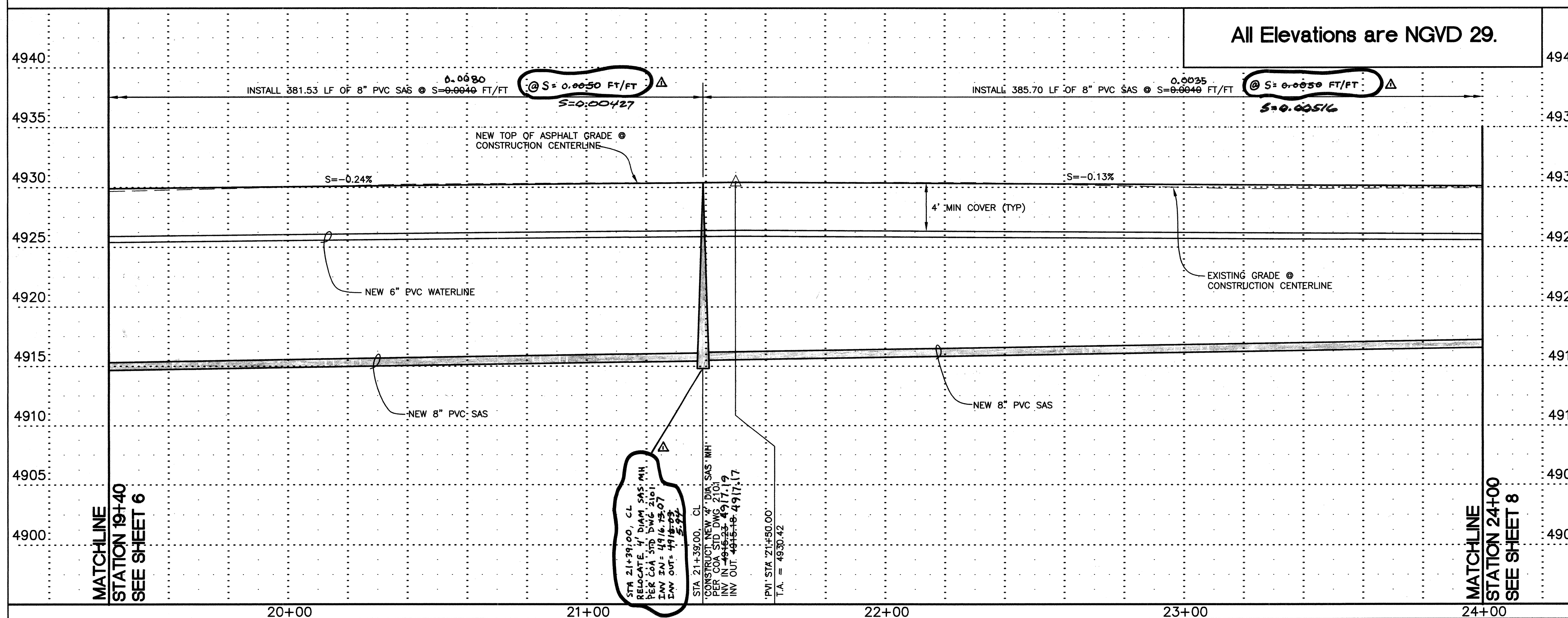


○ KEYED NOTES:

1. EDGE OF NEW ASPHALT ROADWAY. SEE SECTION ON SHEET 18.
2. NEW 6" PVC WATERLINE.
3. EXISTING EDGE OF GRAVEL. GRAVEL ROADWAY TO BE MILLED INTO NEW ASPHALT SUBBASE.
4. NEW 3/4" WATER LINE SERVICE PER DETAIL ON SHEET 16.
5. NEW 4" SANITARY SEWER SERVICE LINE PER C.O.A. STD. DWG. 2125.
6. NEW 8" PVC SAS.
7. EXISTING FENCE TO REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION.
8. EXISTING SPEED LIMIT SIGN TO REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION.
9. SEE SHEET 16 FOR DETAIL OF WATER METER BOX.
10. REMOVE & REINSTALL FENCE TO LOCATION SHOWN.

SURVEY INFORMATION			BENCH MARKS		AS BUILT INFORMATION	
NO.	FIELD NOTES	DATE	ACS Monument	Stamped "S-N11"	CONTRACTOR	STAR PAVING.
1	RED MOUNTAIN		3 1/4" Aluminum Tablet set in concrete flush w/ asphalt at the Intersection of Barcelona Road, Barboa Road, and Joe Sanchez Road.		WORK SKIPPED BY TERRA LAND SURDATE 3-06 ACCEPTANCE BY N1LSON 1 CO DATE 3-06 FIELD CATION BY BC PUD /COA DATE 3-06 DRAWINGS BY N1LSON & CO DATE 3-06 CORRECTED BY N1LSON & CO DATE 3-06	
			Geographic Position (NAD 1927) in feet		MICRO-FILM INFORMATION	
			N.M. State Plane Coordinates (Central Zone)		RECORDED BY	DATE
			X = 367,209.56, Y = 1,466,660.34			
			Elevation = 4927.562, NGVD29, in feet			
					NO.	

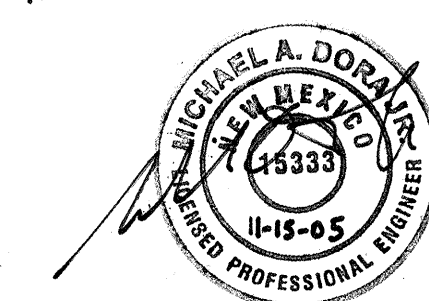
HUNTER COURT



All Elevations are NGVD 29.

WATER TABLE IS EXPECTED AT
APPROXIMATELY 6'-8' BELOW
EXISTING GROUND

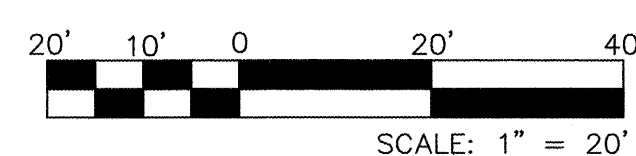
REV. 1 CHANGES SEALED HERewith
ON 11-15-05, APPLY ONLY TO
INDICATED  GAS REDESIGN 



RECORD DRAWING

DATE **03-15-06**

NOTE: RELAY SANITARY SEWER
SERVICE AS REQUIRED



HDR PROJECT No.: 08429-020-035



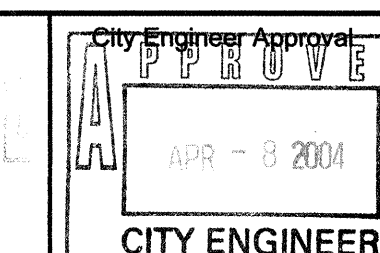
2155 LOUISIANA BLVD., N.
SUITE 9500
ALBUQUERQUE, NM 87110
MAIN: (505) 884-6065
FAX: (505) 884-5969

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

5 TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT

HUNTER COURT: STA. 19+40 TO STA. 24+00

Design Review Committee



Fast Design Update

	City Project No.
--	------------------

7069.81

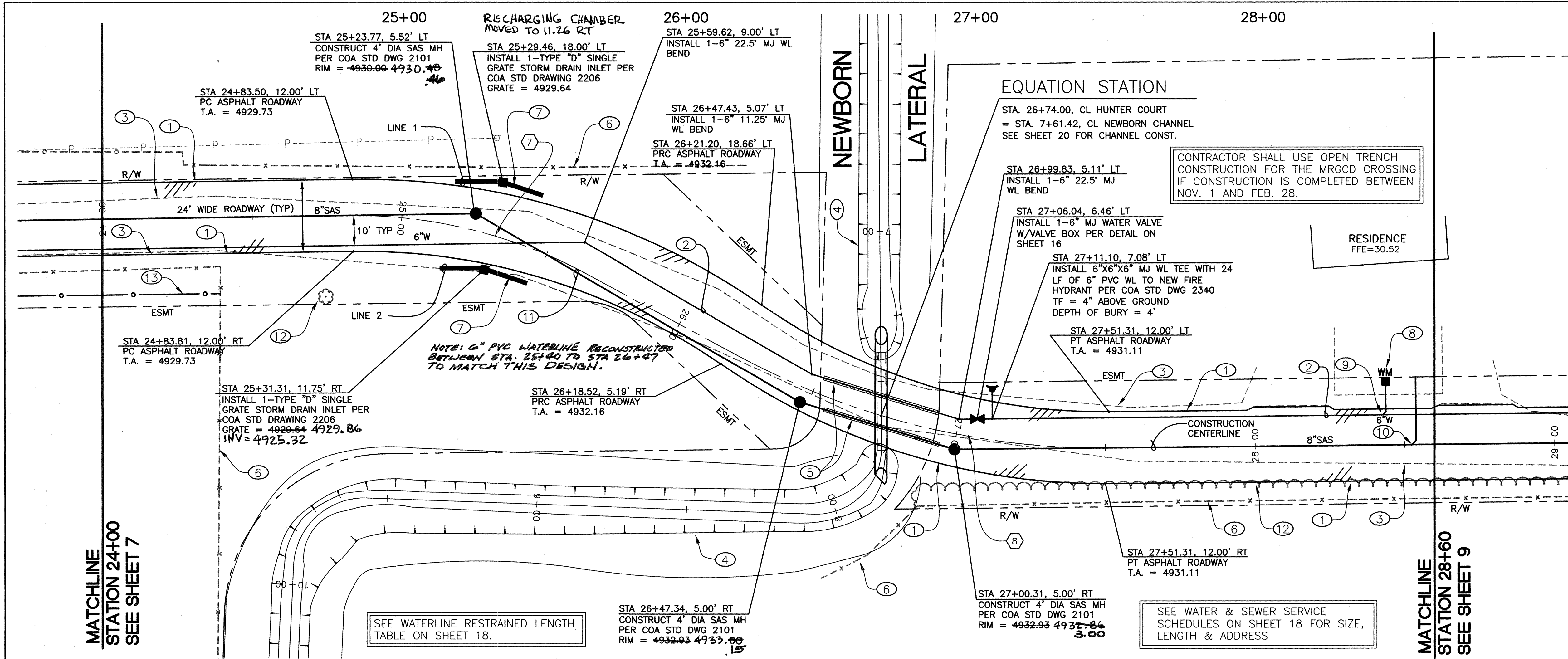
Zone Map No. _____

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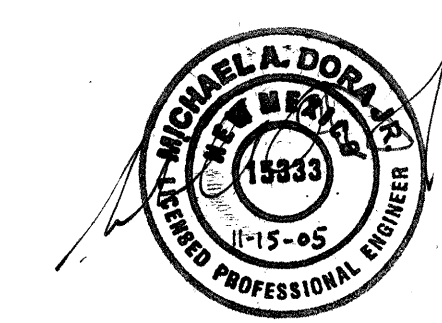
1. EDGE OF NEW ASPHALT ROADWAY. SEE SECTION ON SHEET 18.
2. NEW 6" PVC WATERLINE.
3. EXISTING EDGE OF GRAVEL GRAVEL ROADWAY TO BE MILLED INTO NEW ASPHALT SUBBASE.
4. SEE DETAILS OF MRGCD LATERAL CONSTRUCTION ON SHEET 20.
5. 40 LF OF 16" STEEL CASING FOR WATER AND SANITARY SEWER. INSTALLATION SHALL BE DONE BY BORE AND JACK OR OTHER APPROVED TRENCHLESS TECHNOLOGY IF CONSTRUCTION IS CONDUCTED FROM MARCH 1 TO OCTOBER 31.
6. EXISTING FENCE TO REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION.
7. INSTALL CULTEC RECHARGER CHAMBER PER PROFILE ON SHEET 19.
8. SEE SHEET 16 FOR DETAIL OF WATER METER BOX.
9. NEW 3/4" WATER LINE SERVICE PER DETAIL ON SHEET 16.
10. NEW 4" SANITARY SEWER SERVICE LINE PER C.O.A. STD. DWG 2125.
11. MITRE CUT NEW 48" CMP TO MATCH NEW SLOPE
12. REMOVE AND DISPOSE OF TREES AS NECESSARY FOR CONSTRUCTION.
13. REMOVE & REINSTALL FENCE TO LOCATION SHOWN.

WATER TABLE IS EXPECTED AT
APPROXIMATELY 6'-8' BELOW
EXISTING GROUND

 CURVE DATA

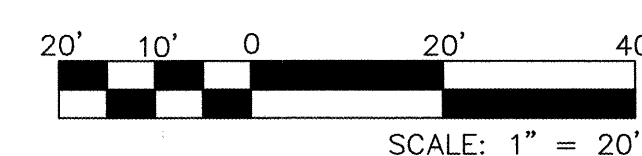
NO.	DELTA	RADIUS	LEN.	TAN.
7	29°08'55"	166.00'	84.45'	43.16
8	28°52'22"	250.00'	125.98'	64.36

REV. 1 CHANGES SEALED HEREWITH
ON 11-15-06, APPLY ONLY TO
INDICATED  SAS REDESIGN



NOTE: RE-LAY SANITARY SEW SERVICES AS REQUIRED

RECORD DRAWING
DATE 03-15-06



HDR PROJECT No.: 08429-020-035

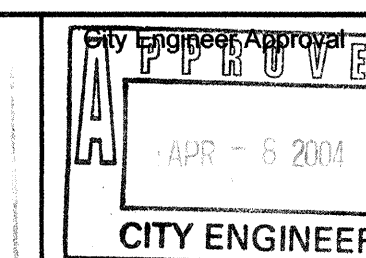


2155 LOUISIANA BLVD.,
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FAX: (505) 884-5969

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT
HUNTER COURT: STA. 24+00 TO STA. 28+60

Design Review Committee



1. *Journal of the American Medical Association*, 2000; 284: 2669-2674.

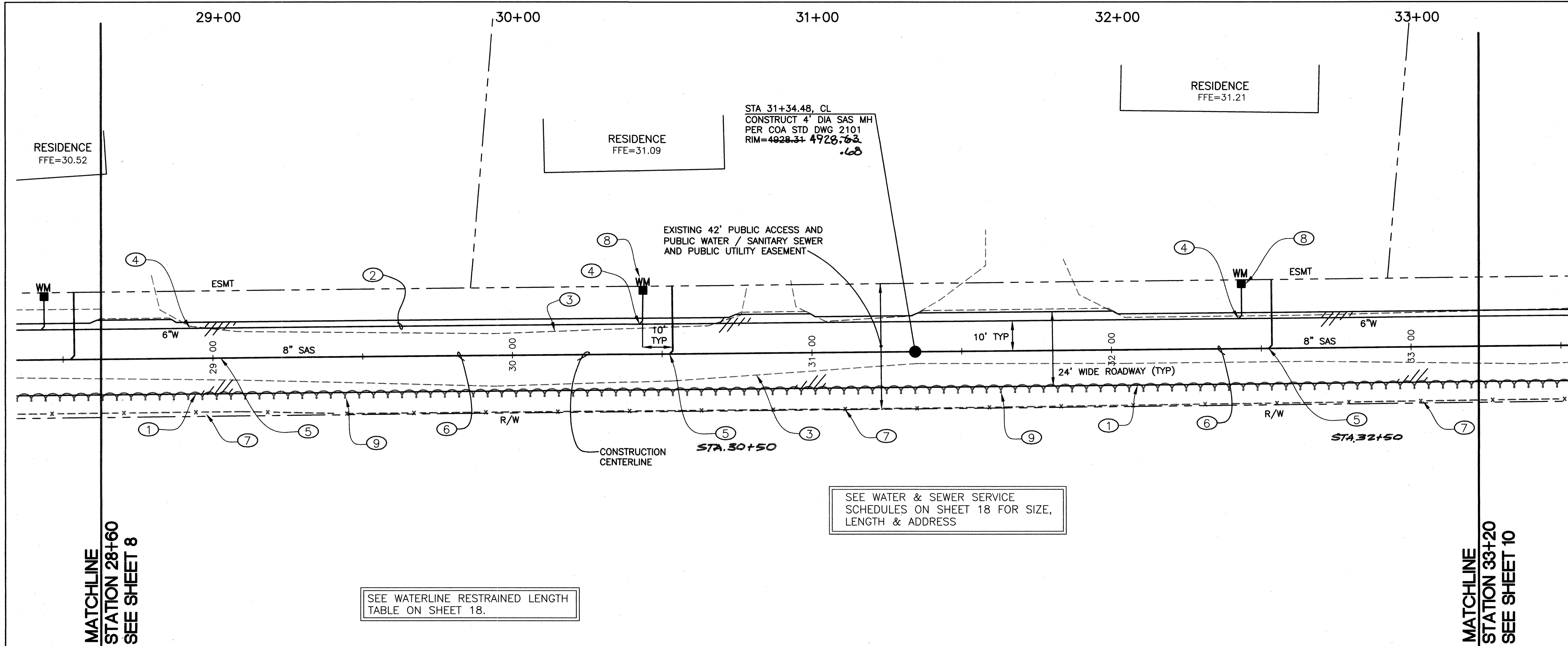
City Project No.	
------------------	--

Zone Map N

Sheet

Of

SCANNED
BY *mm*

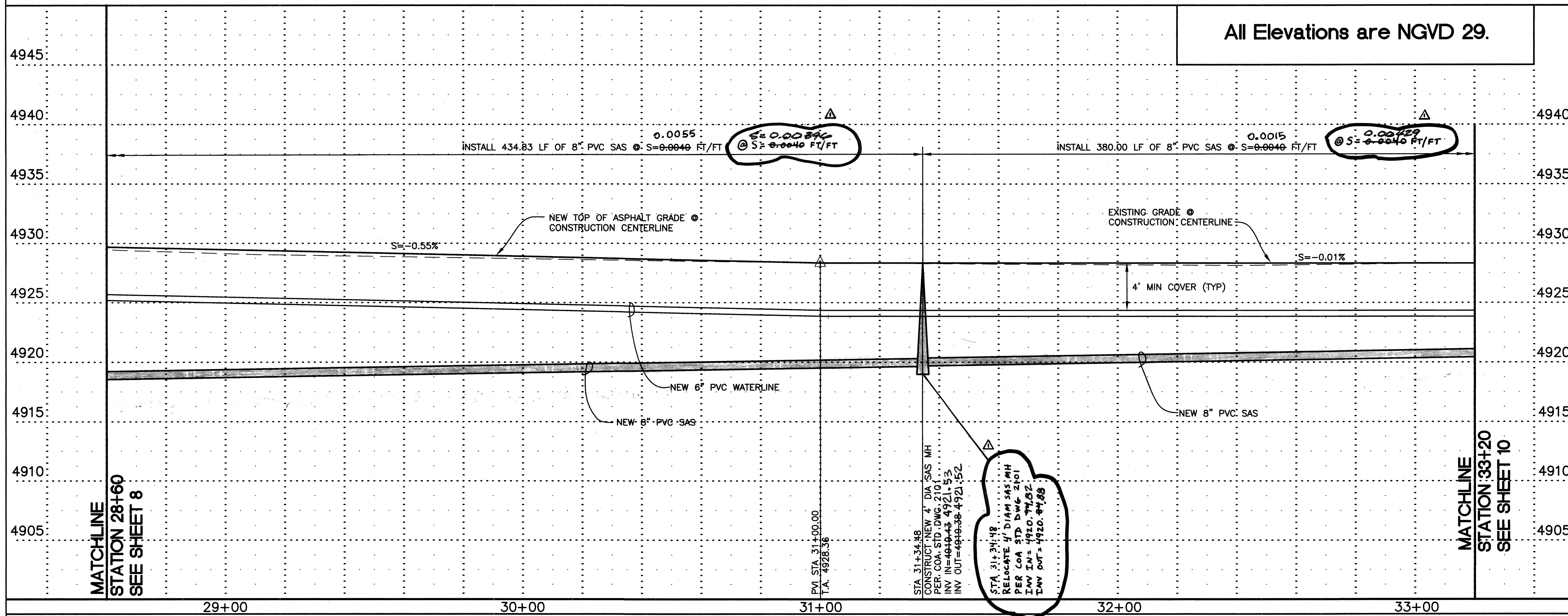


KEYED NOTES:

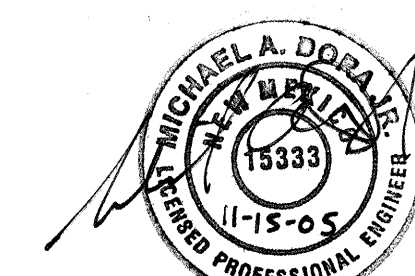
- EDGE OF NEW ASPHALT ROADWAY. SEE SECTION ON SHEET 18.
- NEW 6" PVC WATERLINE.
- EXISTING EDGE OF GRAVEL. GRAVEL ROADWAY TO BE MILLED INTO NEW ASPHALT SUBBASE.
- NEW 3/4" WATER LINE SERVICE PER DETAIL ON SHEET 16.
- NEW 4" SANITARY SEWER SERVICE LINE PER C.O.A. STD. DWG. 2125.
- NEW 8" PVC SAS.
- ALL EXISTING FENCES TO REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION.
- SEE DETAIL SHEET 16 FOR DETAIL OF METER BOX.
- REMOVE AND DISPOSE OF TREES AS NECESSARY FOR CONSTRUCTION.

WATER TABLE IS EXPECTED AT APPROXIMATELY 6'-8" BELOW EXISTING GROUND

All Elevations are NGVD 29.

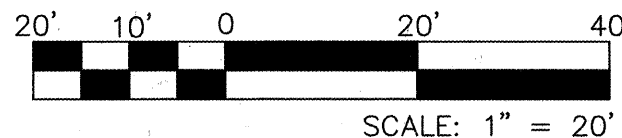


REV. 1 CHANGES SEALED HERewith ON 11-15-05, APPLY ONLY TO INDICATED Δ SAS REDESIGN



NOTE: RE-LAY SANITARY SEWER SERVICES AS REQUIRED

RECORD DRAWING
DATE 03-15-06

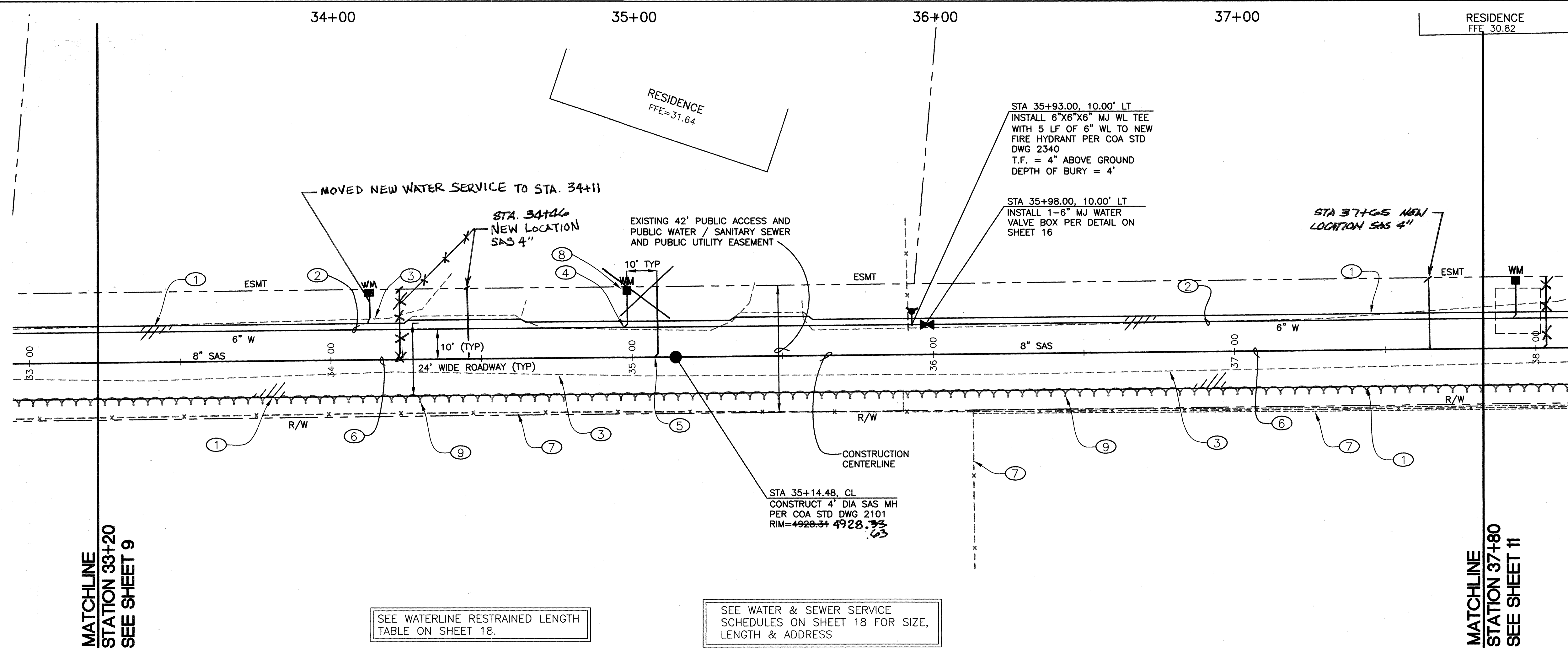


HDR PROJECT No.: 08429-020-035



BERNALILLO COUNTY PUBLIC WORKS DIVISION	
TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT HUNTER COURT STA. 28+60 TO STA. 33+20	
Design Review Committee	City Engineer Approval
City Project No. 7069.81	Zone Map No. N-11
Sheet 9	Of 22

SCANNED
BY *PLW*



○ KEYED NOTES:

1. EDGE OF NEW ASPHALT ROADWAY. SEE SECTION ON SHEET 18.
2. NEW 6" PVC WATERLINE.
3. EXISTING EDGE OF GRAVEL. GRAVEL ROADWAY TO BE MILLED INTO NEW ASPHALT SUBBASE.
4. NEW 3/4" WATER LINE SERVICE PER DETAIL ON SHEET 16.
5. NEW 4" SANITARY SEWER SERVICE LINE PER C.O.A. STD. DWG. 2125.
6. NEW 8" PVC SAS.
7. ALL EXISTING FENCES TO REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION.
8. SEE DETAIL SHEET 16 FOR DETAIL OF WATER METER BOX.
9. REMOVE AND DISPOSE OF TREES AS NECESSARY FOR CONSTRUCTION.

SURVEY INFORMATION			FIELD NOTES		BENCH MARKS		AS BUILT INFORMATION	
NO.	BY	DATE						
1	RED MOUNTAIN		ACS Monument Stamped "5-N11" 3 1/4" Aluminum Tablet set in concrete flush w/ asphalt at the intersection of Barcelona Road, Barboa Road, and Joe Sanchez Road. Geographic Position (NAD 1927) in feet N.M. State Plane Coordinates (Central Zone) X = 367,209.56, Y = 1,466,660.34 Elevation = 4927.562, NGVD29, in feet		WORK BY: TERESA LAND SURDATE: 3-06 ACCEPTANCE BY: HILSON 4 CD DATE: 3-06 FIELD BY: HILSON 4 CD DATE: 3-06 DRAWINGS CORRECTED BY: HILSON 4 CD DATE: 3-06		CONTRACTOR STAR PAVING	
					MICRO-FILM INFORMATION		RECORDED BY DATE	
					NO.			

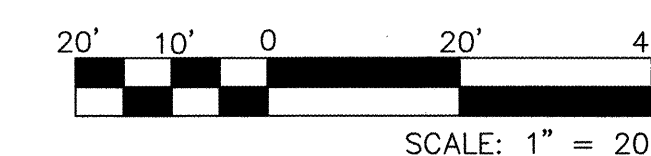
WATER TABLE IS EXPECTED AT
APPROXIMATELY 6'-8' BELOW
EXISTING GROUND

REV. 1 CHANGES SEALED HEREWITH
ON 11-16-06, APPLY ONLY TO
INDICATED  SAS REDESIGN



NOTE: RE-LAY SANITARY SEWER SERVICES AS REQUIRED

25 RECORD DRAWING
DATE 03-15-06



HDR PROJECT No.: 08429-020-035

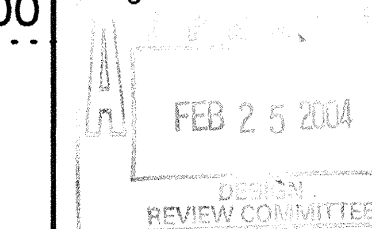


2155 LOUISIANA BLVD.,
SUITE 9500
ALBUQUERQUE, NM 871
MAIN: (505) 884-6065
FAX: (505) 884-5089

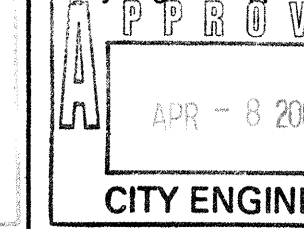
BERNALILLO COUNTY
PUBLIC WORKS DIVISION

5
.. TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT
HUNTER COURT STA. 33+20 TO STA. 37+80

Design Review Committee



City Engineer Approval



Last Design Update

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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Mo. _____

/ Day /

Yr. _____

City Project No.

7069.81

Zone Map No. _____

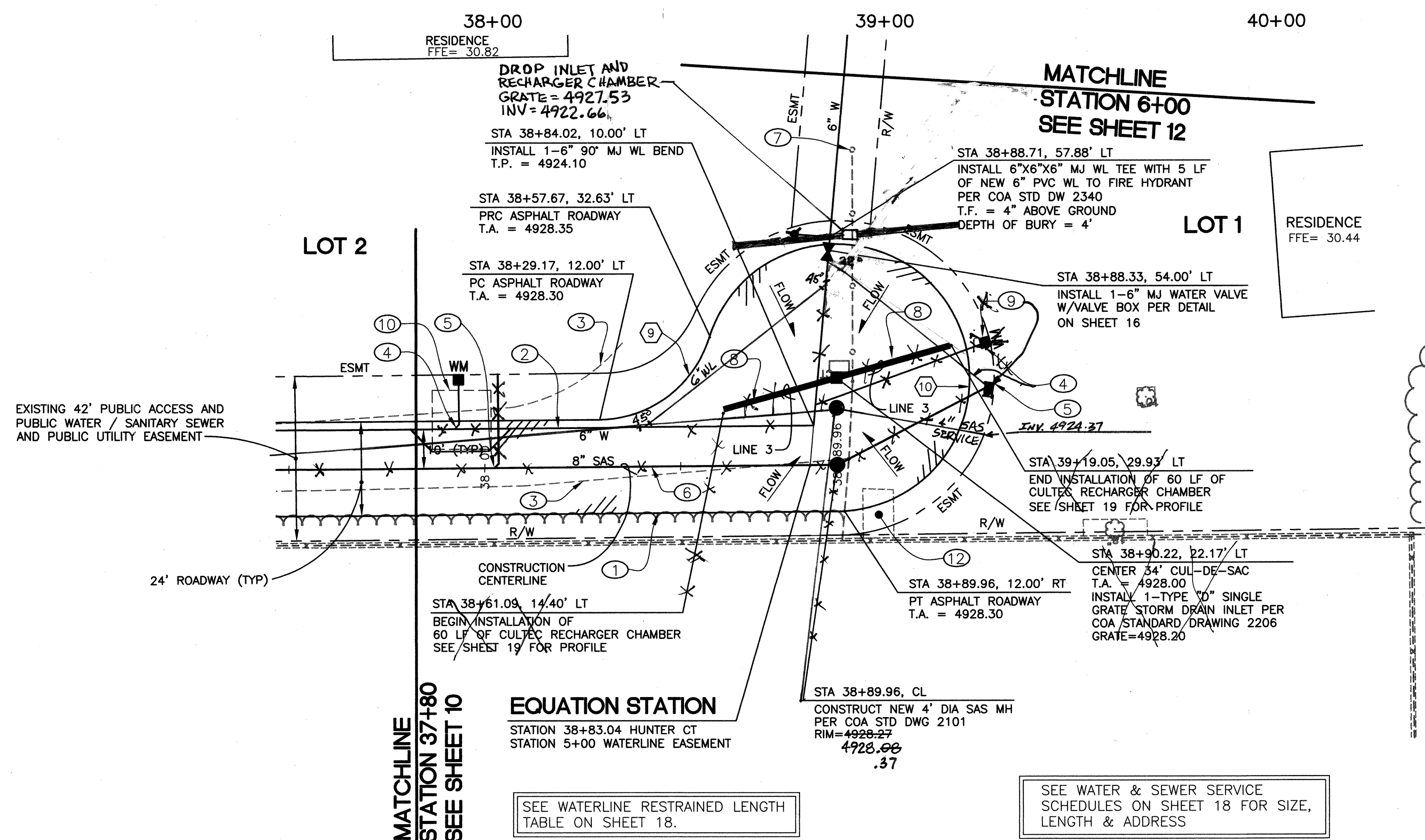
one Map No
N-11

SI

meet

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○ KEYED NOTES:

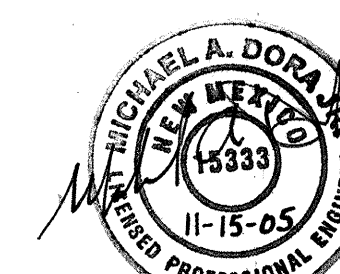
1. EDGE OF NEW ASPHALT ROADWAY. SEE SECTION ON SHEET 18.
2. NEW 6" PVC WATERLINE.
3. EXISTING EDGE OF GRAVEL. GRAVEL ROADWAY TO BE MILLED INTO NEW ASPHALT SUBBASE.
4. NEW 3/4" WATER LINE SERVICE PER DETAIL ON SHEET 16.
5. NEW 4" SANITARY SEWER SERVICE LINE PER C.O.A. STD. DWG. 2125.
6. NEW 8" PVC SAS.
7. REMOVE AND DISPOSE OF 85 LF OF EXISTING FENCE TO RIGHT-OF-WAY LINE.
8. ULTEC RECHARGER CHAMBER PER DETAIL ON SHEET 20.
9. SEE SHEET 16 FOR DETAIL OF WATER METER BOX.
10. EXISTING SEPTIC TANK TO BE REMOVED BY CONTRACTOR. PROPERTY MUST BE SERVICED BY NEW SANITARY SEWER SYSTEM IN COORDINATION WITH TANK REMOVAL.
11. REMOVE AND DISPOSE OF TREES AS NECESSARY FOR CONSTRUCTION.
12. REMOVE PLANTER TO LIMITS OF EASEMENT - COST INCIDENTAL TO PROJECT.

CURVE DATA

NO.	DELTA	RADIUS	LEN.	TA
9	71°47'24"	30.00'	37.59'	21.
10	251°47'24"	34.00'	149.42'	46.

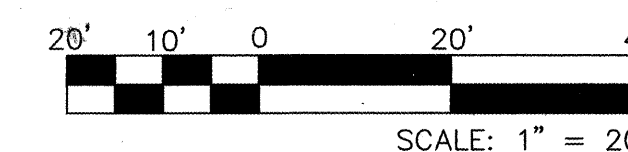
WATER TABLE IS EXPECTED AT
APPROXIMATELY 6'-8' BELOW
EXISTING GROUND

REV. 1 CHANGES SEALED HERewith
ON 11-15-06, APPLY ONLY TO
INDICATED  SAS REDESIGN



NOTE: RE-LAY SANITARY SERVICE
SERVICES AS REQUIRED

5. RECORD DRAWING
DATE 03-15-06



HDR PROJECT No.: 08429-020-035



2155 LOUISIANA BLVD.,
SUITE 9500
ALBUQUERQUE, NM 871
MAIN: (505) 884-6065
FAX: (505) 884-5969

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

5. TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT

HUNTER COURT STA. 37+80 TO STA. 40+00

Design Review Committee

City Engineer Approval

--	--

No. / Day / Yr.	No. / Day / Yr.
-----------------	-----------------

FEB 25 2004
DESIGN
REVIEW COMMITTEE

APPROVED
APR - 8 20
CITY ENGINEER

Last Design Update

City Project No.

7069.81

Zone Map No.

Sheet	Of
-------	----

	11	22
--	----	----

SCANNED
BY *PLN*

HUNTER COURT

5+00

6+00

7+00

8+00

9+00

10+00

○ KEYED NOTES:

1. EXISTING TREELINE - REMOVE THE MINIMUM NUMBER OF TREES IN ORDER TO INSTALL NEW 6" WATERLINE.

WATER TABLE IS EXPECTED AT APPROXIMATELY 6'-8" BELOW EXISTING GROUND

ELEVATIONS ARE IN INTERIM NAVD 88 DATUM. TO CONVERT FROM INTERIM NAVD 88 TO NGVD 29 SUBTRACT 2.61'. ALL ELEVATIONS IN () ARE NGVD 29

STA 6+40.19, CL
INSTALL 1-6" 90° MJ WL BEND
T.P. = 4' BELOW EXISTING GRADE

STA 7+23.88, CL
INSTALL 1-6" 90° MJ WL BEND
T.P. = 4' BELOW EXISTING GRADE

MATCHLINE
STATION 6+00
SEE SHEET 11

MATCHLINE
STATION 10+00
SEE THIS SHEET

WATERLINE EASEMENT (HUNTER COURT TO BARCELONA)

10+00

11+00

12+00

13+00

14+00

EXISTING WATER VALVE
COA #822

STA 12+72.00, CL
INSTALL 6"x6"x6" MJ WL TEE WITH 5' LF
OF NEW 6" PVC WL TO FIRE HYDRANT
PER COA STD DWG 2340
T.F. = 4" ABOVE GROUND
DEPTH OF BURY = 4'

STA 14+77, CL
INSTALL 6"x6"x6" MJ WL TEE TO
END NEW 6" WATERLINE WITH
PRESSURIZED CONNECTION TO
EXISTING 6" WATERLINE
T.P. = MATCH EXISTING

WATERLINE EASEMENT
LINE #2, EASEMENT #1

AUBOL ROAD

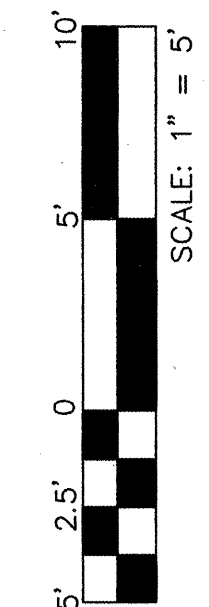
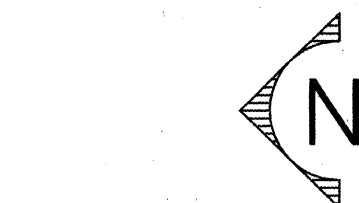
BARCELONA ROAD

NEW 6" PVC WATERLINE
T.P. = 4' BELOW EXISTING GROUND

STA 14+77.00, CL
INSTALL 1-6" MJ WATER VALVE
W/VALVE BOX PER DETAIL
ON SHEET 16

MATCHLINE
STATION 10+00
SEE THIS SHEET

WATERLINE EASEMENT (HUNTER COURT TO BARCELONA)



HDR PROJECT No.: 08429-020-035



BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT
WATERLINE EASEMENT STA. 5+00 TO STA. 14+72.02

Design Review Committee
FEB 25 2004

City Engineer Approval
APR - 8 2004
CITY ENGINEER

No.	Day	Yr.	No.	Day	Yr.

City Project No.

7069.81

Zone Map No.

N-11

Sheet

12

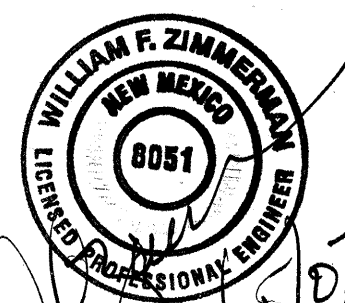
Of

22

FIELD NOTES

NO.	BY	DATE
1	RED MOUNTAIN	

ENGINEERS SEAL



REVISIONS

NO.	DATE	BY

DESIGNED BY WfZ

DRAWN BY HDR

CHECKED BY WfZ

DATE 6/03

DATE 6/03

DATE 6/03

AS BUILT INFORMATION

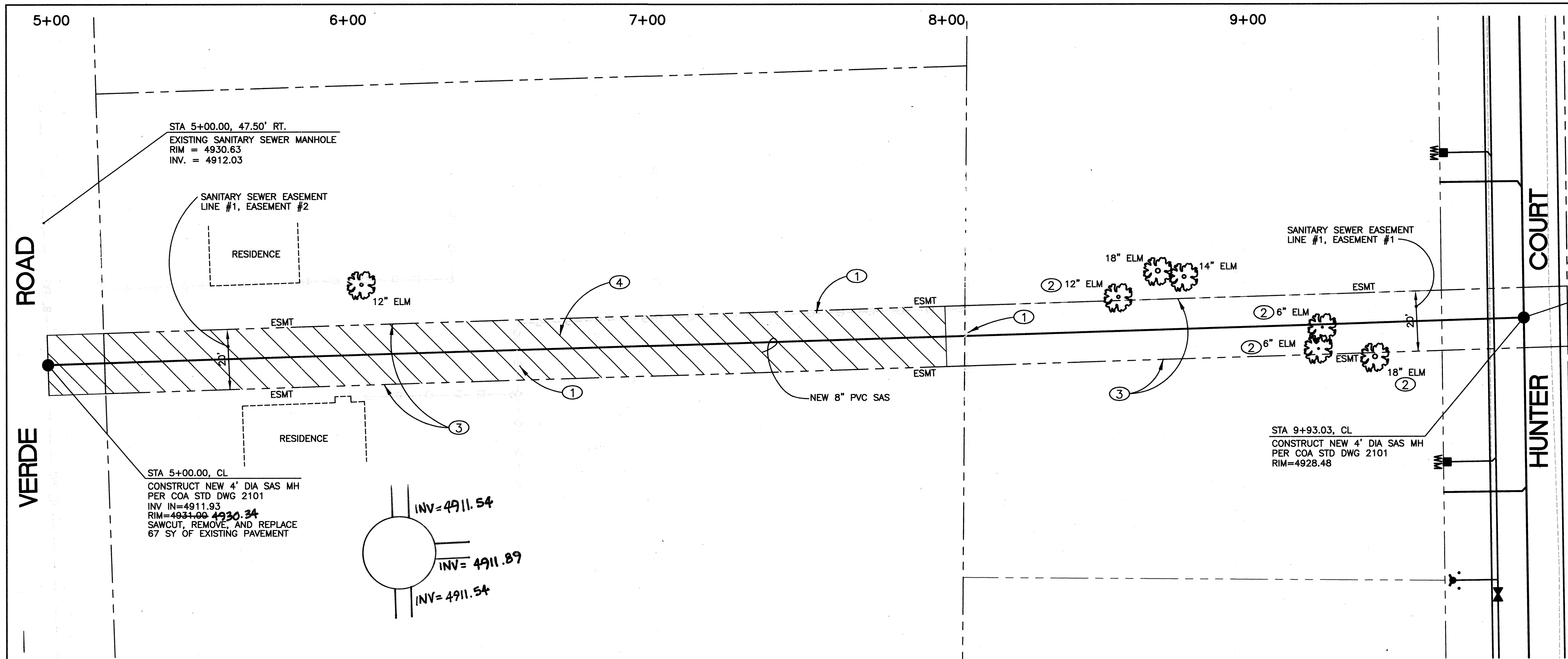
CONTRACTOR	STAR PAVING
WORK STARTED BY	PRECISION SUB. DATE 9-04
ACCEPTANCE BY	BCPMD DATE 9-04
FIELD LATION BY	BCPMD/COA DATE 9-04
DRAWINGS CORRECTED BY	HDR DATE 9-04

BENCH MARKS

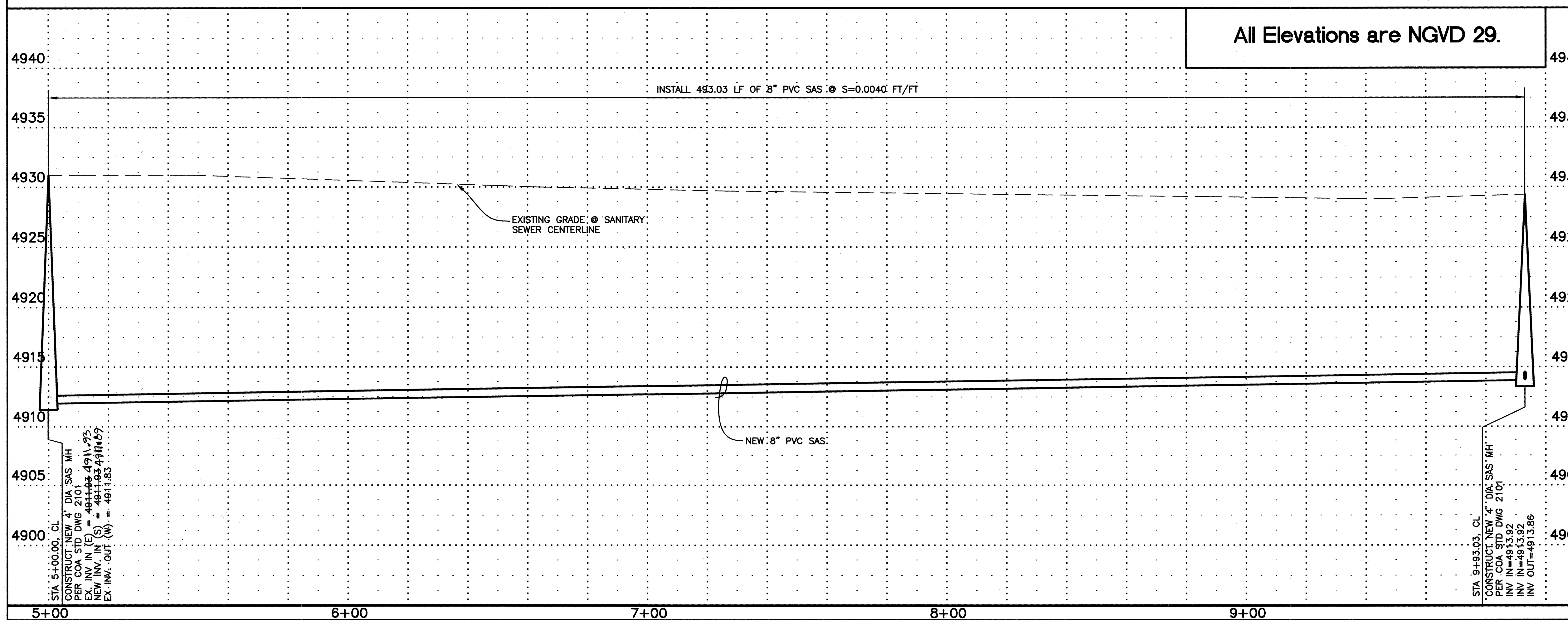
ACS Monument Stamped "5-N11"	3 1/4" Aluminum Tablet set in concrete flush w/ asphalt at the Intersection of Barcelona Road, Barboa Road, and Joe Sanchez Road.
Geographic Position (NAD 1927) in feet	N.M. State Plane Coordinates (Central Zone)
X = 367,209.56	Y = 1,466,660.34
Elevation = 4927.562, NGVD29, in feet	Ground to Grid Factor = 0.99968444

NO.

SCANNED
BY PLAN



SANITARY SEWER EASEMENT



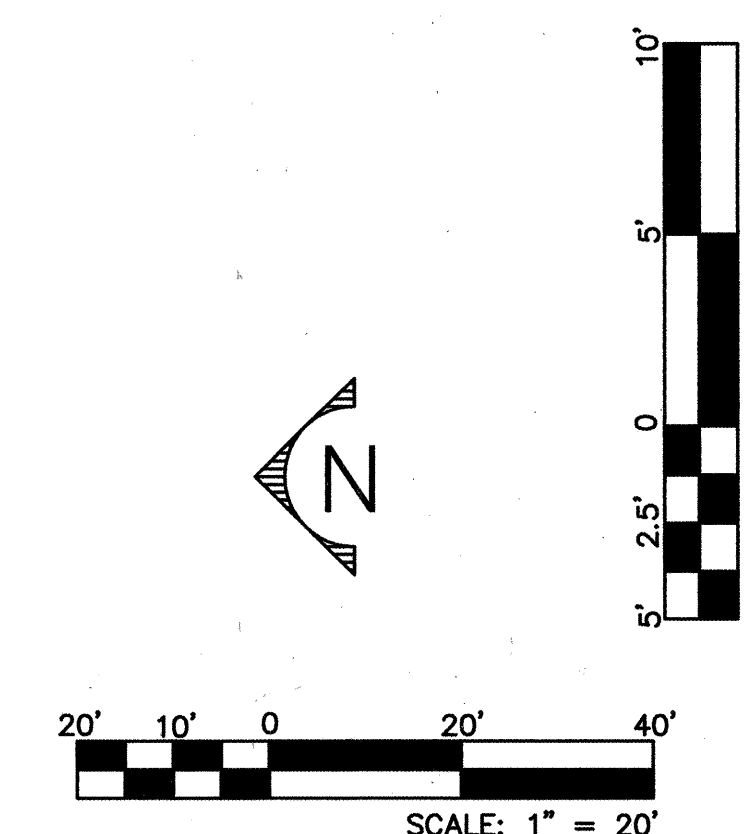
KEYED NOTES:

1. REMOVE AND REPLACE 192 LF OF WOOD / PIPE FENCE.
2. REMOVE AND DISPOSE OF EXISTING TREE.
3. ALL TRENCHING SHALL BE LIMITED TO WITHIN THE EASEMENT AND RIGHT-OF-WAY.
4. CONTRACTOR SHALL BORE AND JACK OR USE OTHER APPROVED TRENCHLESS METHOD TO CONSTRUCT THE SEWER LINE FROM STATION 5+00 TO STATION 8+00. SEWER PIPE IN THIS SECTION SHALL BE PRESSURE RATED (125 PSI) PLASTIC PIPE AND BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS. IF THE CONTRACTOR DECIDES TO EXCAVATE IN THIS SECTION, THE CONTRACTOR MUST PROVIDE BRACING/SHORING PLAN AND DETAILS DEVELOPED BY A REGISTERED PROFESSIONAL ENGINEER.

EQUATION STATION

STA 9+93.03, CL (SAS ESMT) =
STA17+57.47, CL (HUNTER CT.)

WATER TABLE IS EXPECTED AT
APPROXIMATELY 6'-8' BELOW
EXISTING GROUND



HDR PROJECT No.: 08429-020-035

HDR
HDR Engineering, Inc.

2155 LOUISIANA BLVD., NE
SUITE 5000
ALBUQUERQUE, NM 87110
PHONE: (505) 884-5965
FAX: (505) 884-5969

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT
SANITARY SEWER EASEMENT: STA. 5+00 TO STA. 9+93.03

Design Review Committee
FEB 25 2004
DESIGN REVIEW COMMITTEE

CITY ENGINEER
APR - 8 2004
CITY ENGINEER

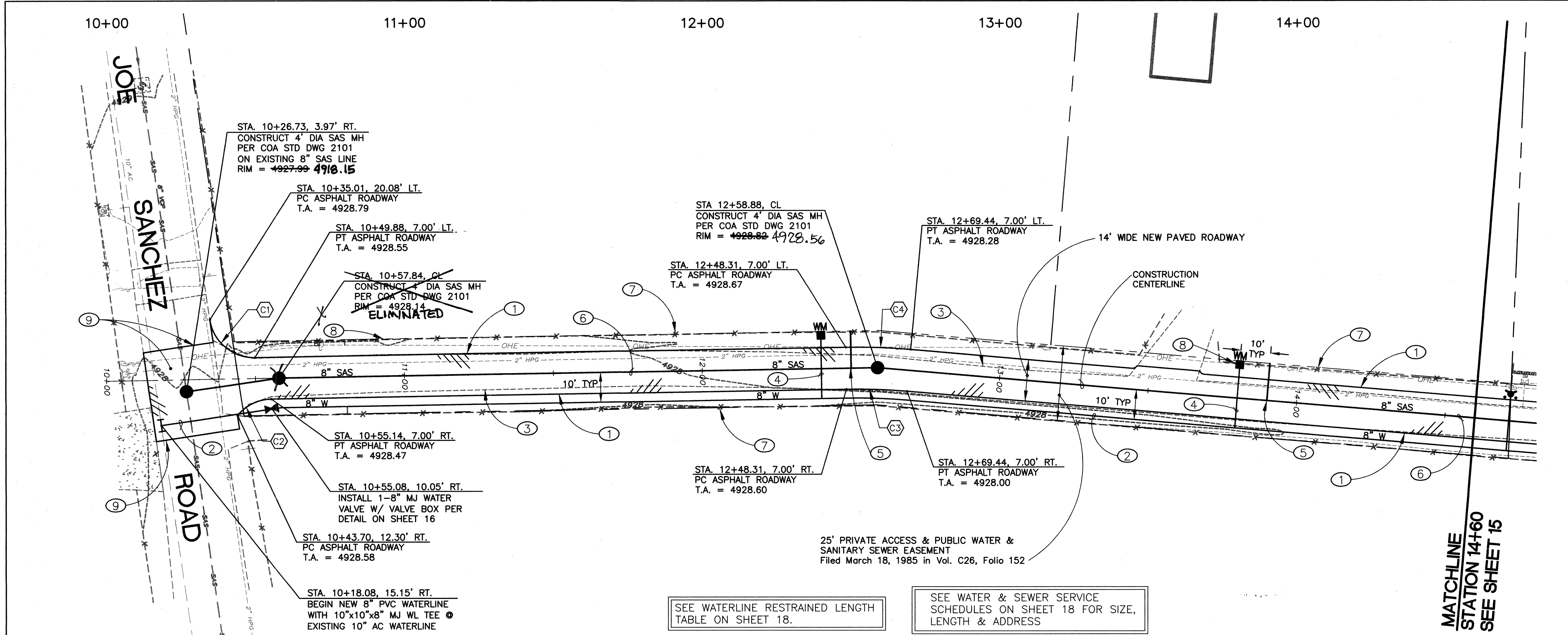
Last Design Update

City Project No. 7069.81

Zone Map No. N-11

Sheet 13 Of 22

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
NO.	DATE	BY	DATE	CONTRACTOR	STAR PAVING
1	RED MOUNTAIN			WORK STARTED BY PRECISION SUR. DATE 9-04	ACCEPTANCE BY BCPAD DATE 9-04
				Joe Sanchez Road.	FIELD ACCEPTANCE BY BCPAD/COADATE 9-04
				Geographic Position (NAD 1927) in feet	DRAWINGS CORRECTED BY HDR DATE 9-04
				N.M. State Plane Coordinates (Central Zone)	MICRO-FILM INFORMATION
				X = 367,209.56, Y = 1,466,660.34	RECORDED BY
				Elevation = 4927.562, NGVD29, in feet	DATE
				Ground to Grid Factor = 0.99968444	NO.



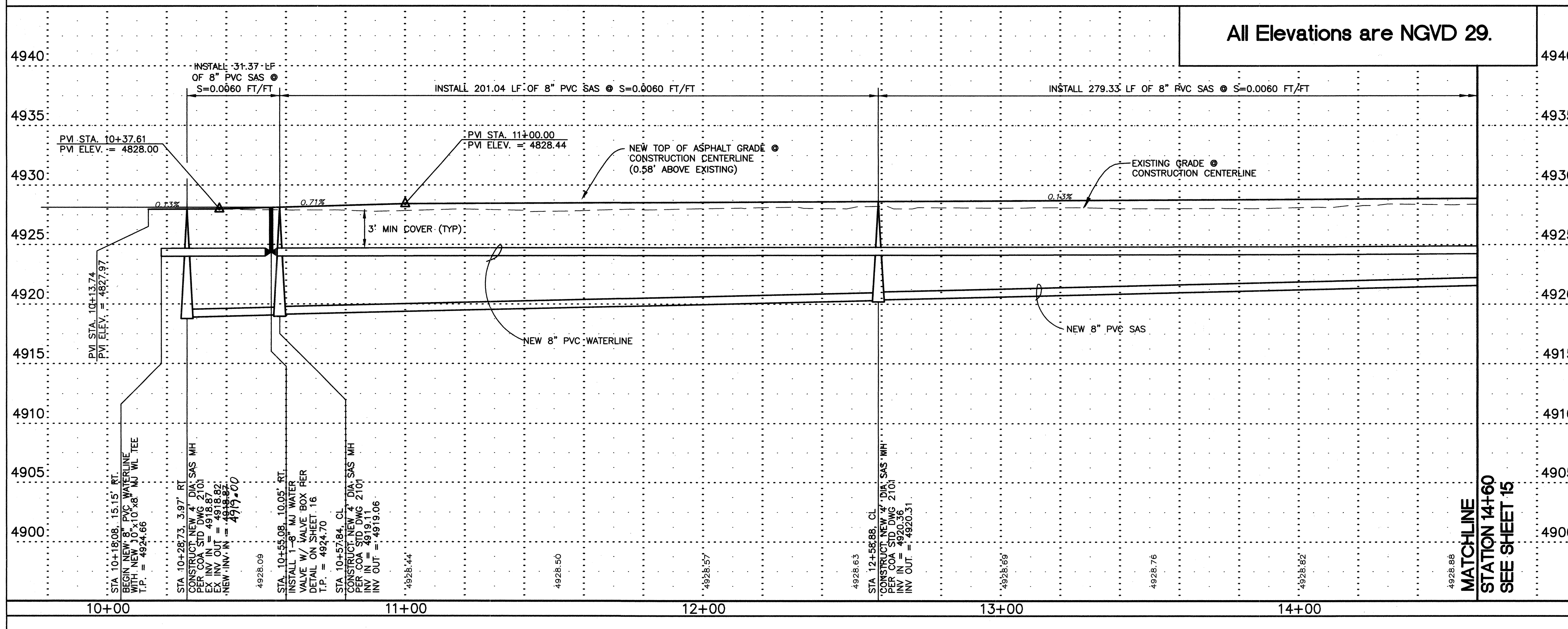
- KEYED NOTES:**
- EDGE OF NEW ASPHALT ROADWAY. SEE SECTION ON SHEET 18.
 - NEW 8" PVC WATERLINE.
 - EXISTING EDGE OF GRAVEL GRAVEL ROADWAY TO BE MILLED INTO NEW ASPHALT SUBBASE.
 - NEW 3/4" WATER LINE SERVICE PER DETAIL ON SHEET 16.
 - NEW 4" SANITARY SEWER SERVICE LINE PER C.O.A. STD. DWG. 2125.
 - NEW 8" PVC SAS.
 - ALL EXISTING FENCES TO REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION.
 - SEE SHEET 16 FOR DETAIL OF WATER METER BOX.
 - SAWCUT EXISTING PAVEMENT AND REMOVE AND REPLACE XX SY OF ASPHALT PAVEMENT PER SECTION ON SHEET 18.

WATER TABLE IS EXPECTED AT
APPROXIMATELY 6'-8" BELOW
EXISTING GROUND

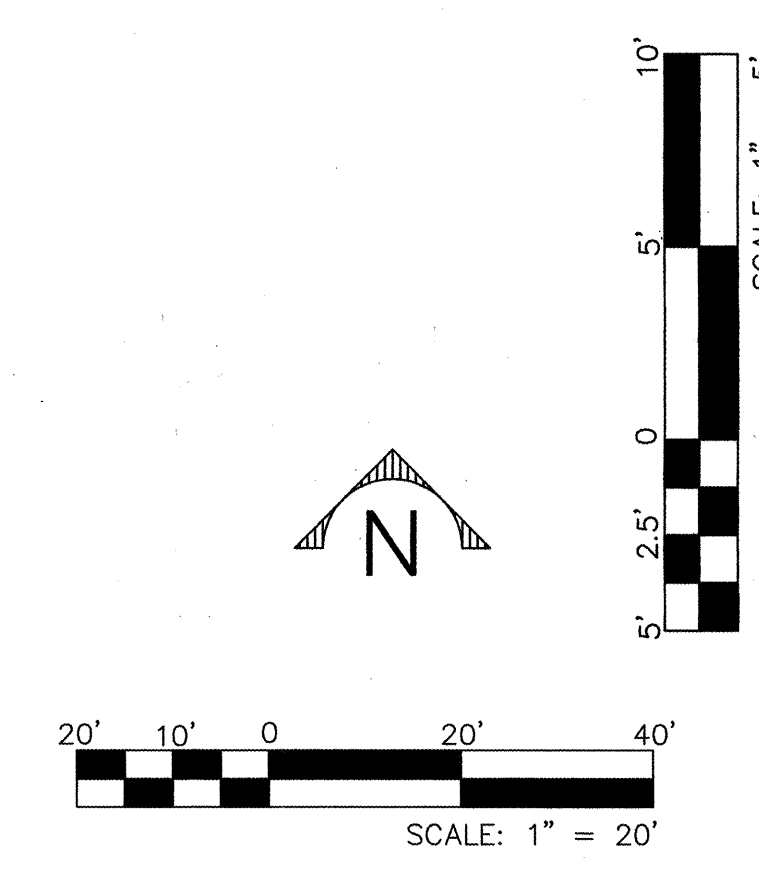
CURVE DATA

NO.	DELTA	RADIUS	LEN.	TAN.
1	82°38'18"	15.00'	21.63'	13.19'
2	49°42'01"	15.00'	13.01'	6.95'
3	5°50'39"	200.00'	20.40'	10.21'
4	5°50'39"	214.00'	21.83'	10.92'

ELSA DRIVE



All Elevations are NGVD 29.



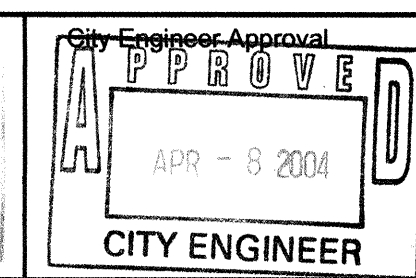
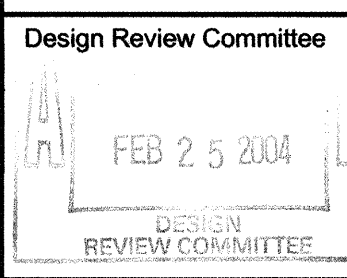
HDR PROJECT No.: 08429-020-035



2155 LOUISIANA BLVD., NE
SUITE 5500
ALBUQUERQUE, NM 87110
PHONE: (505) 884-5965
FAX: (505) 884-5969

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT
ELSA DRIVE: STA. 10+00 TO STA. 14+60



City Project No. **7069.81**

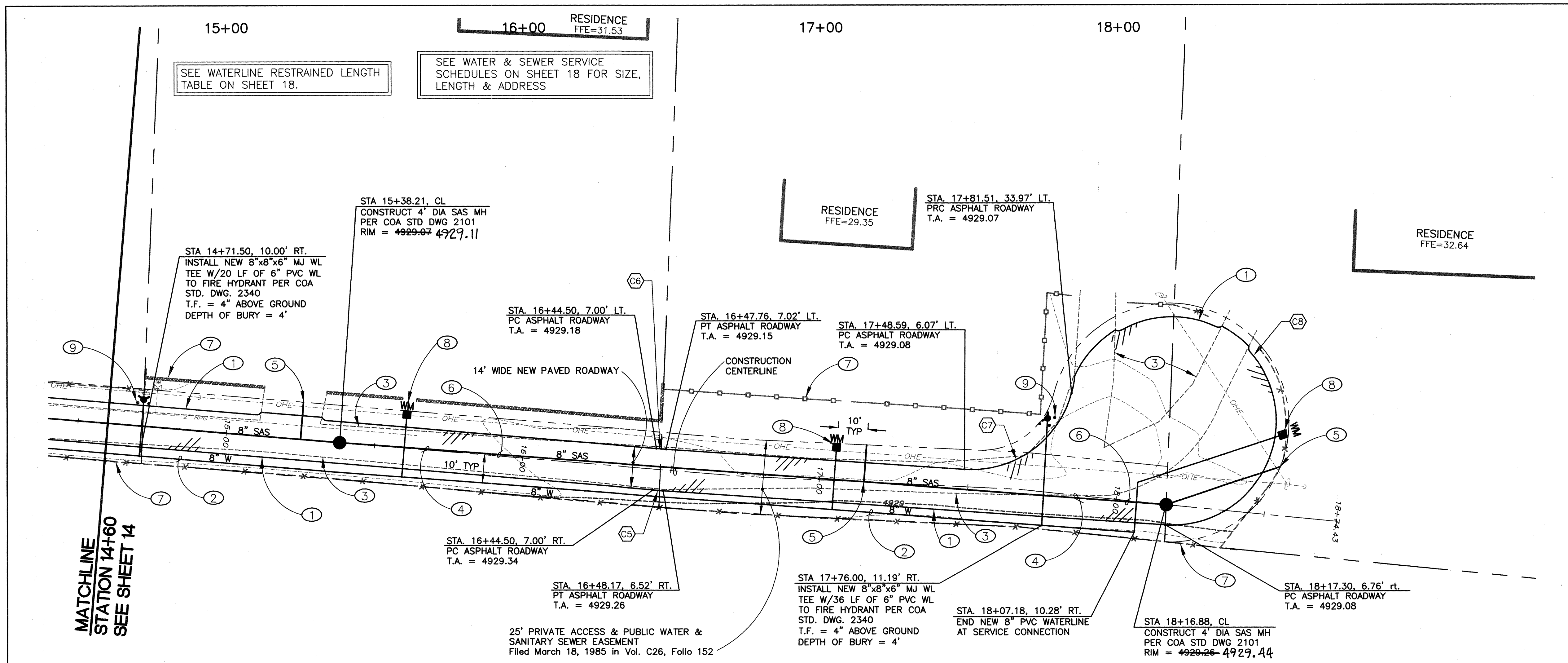
Zone Map No. **N-11**

Sheet **14** of **22**

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	STAR PAVING	ACS Monument	Stamped "5-N11"	FIELD NOTES	BY	DATE	
WORK	PAVED BY PRECISION SUR DATE 9-04	3 1/4" Aluminum	Tablet set in concrete flush w/ asphalt at the intersection of Barcelona Road, Barboa Road, and Joe Sanchez Road.	NO.	1	RED MOUNTAIN	
INSPECTOR	BY BCPND DATE 9-04	FIELD	INSPECTED BY BCPND/CCADATE 9-04	NO.			
REVISION	BY HDR DATE 9-04	NO.		NO.			
MICRO-FILM INFORMATION		RECORDED BY		DATE		NO.	
		NO.		DATE		NO.	

NO.	DATE	REMARKS	BY
DESIGNED BY	MUR/HEAD	DATE 6/03	
DRAWN BY	MUR/HEAD	DATE 6/03	
CHECKED BY	MUR	DATE 6/03	

SCANNED BY PLW



KEYED NOTES:

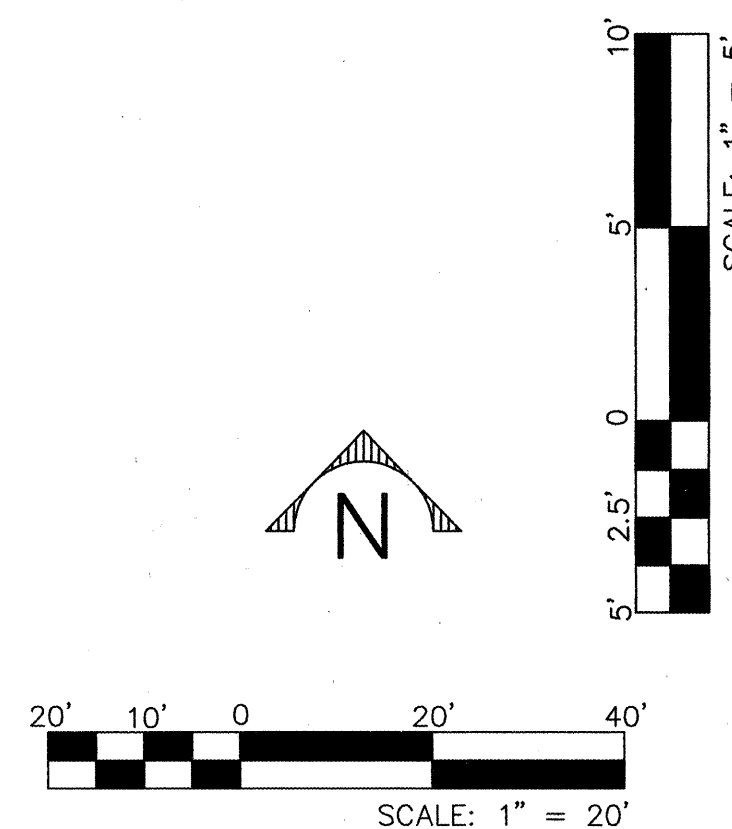
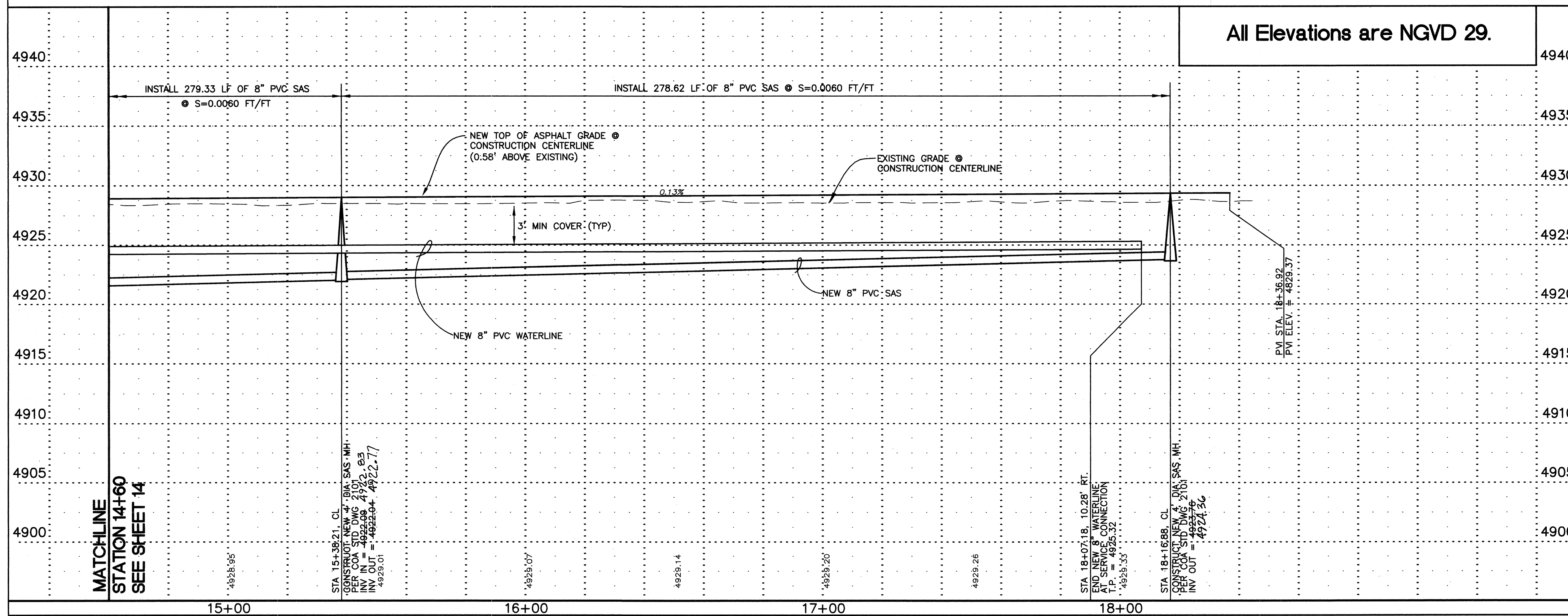
- EDGE OF NEW ASPHALT ROADWAY. SEE SECTION ON SHEET 18.
- NEW 8" PVC WATERLINE.
- EXISTING EDGE OF GRAVEL. GRAVEL ROADWAY TO BE MILLED INTO NEW ASPHALT SUBBASE.
- NEW 3/4" WATER LINE SERVICE PER DETAIL ON SHEET 16.
- NEW 4" SANITARY SEWER SERVICE LINE PER C.O.A. STD. DWG. 2125.
- NEW 8" PVC SAS.
- ALL EXISTING FENCES & WALLS TO REMAIN UNDISTURBED THROUGHOUT CONSTRUCTION.
- SEE SHEET 16 FOR DETAIL OF WATER METER BOX.
- INSTALL PERMANENT BOLLARDS PER COA STD. DWG. 2723.

WATER TABLE IS EXPECTED AT APPROXIMATELY 6'-8' BELOW EXISTING GROUND

CURVE DATA

NO.	DELTA	RADIUS	LEN.	TAN.
5	00°55'51"	214.00'	3.48'	1.74'
6	00°55'51"	200.00'	3.25'	1.62'
7	78°26'27"	35.00'	47.92'	28.57'
8	258°29'19"	35.00'	157.80'	42.82'

All Elevations are NGVD 29.

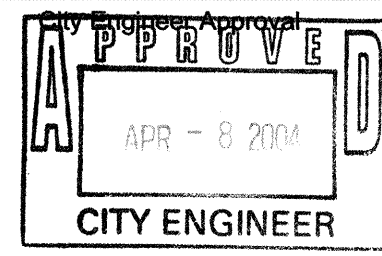
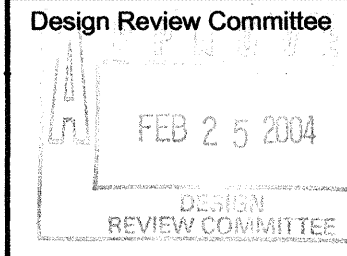


HDR PROJECT No.: 08429-020-035



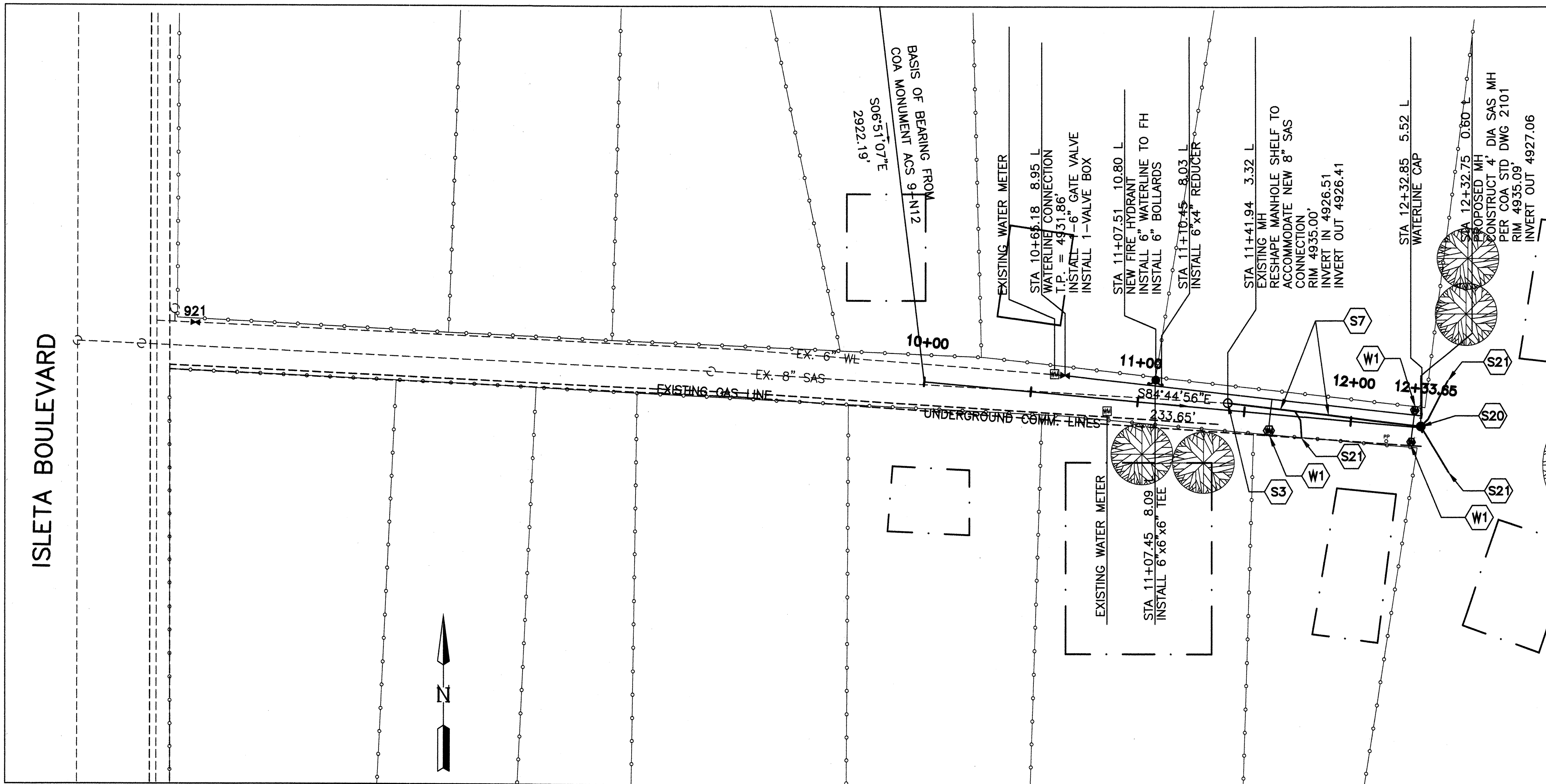
BERNALILLO COUNTY PUBLIC WORKS DIVISION

TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT
ELSA DRIVE: STA. 14+60 TO STA. 18+60



NO.	DATE	REMARKS	BY
1	6/03	DESIGN	MJR
2	6/03	REVISIONS	MJR

ISLETA BOULEVARD



Elevations are in INTERIM NAVD88 DATUM. To convert from interim NAVD 88 to NGVD 29 subtract 2.64 feet. All elevations in () are NGVD 29.

BEALL ROAD SW PLAN

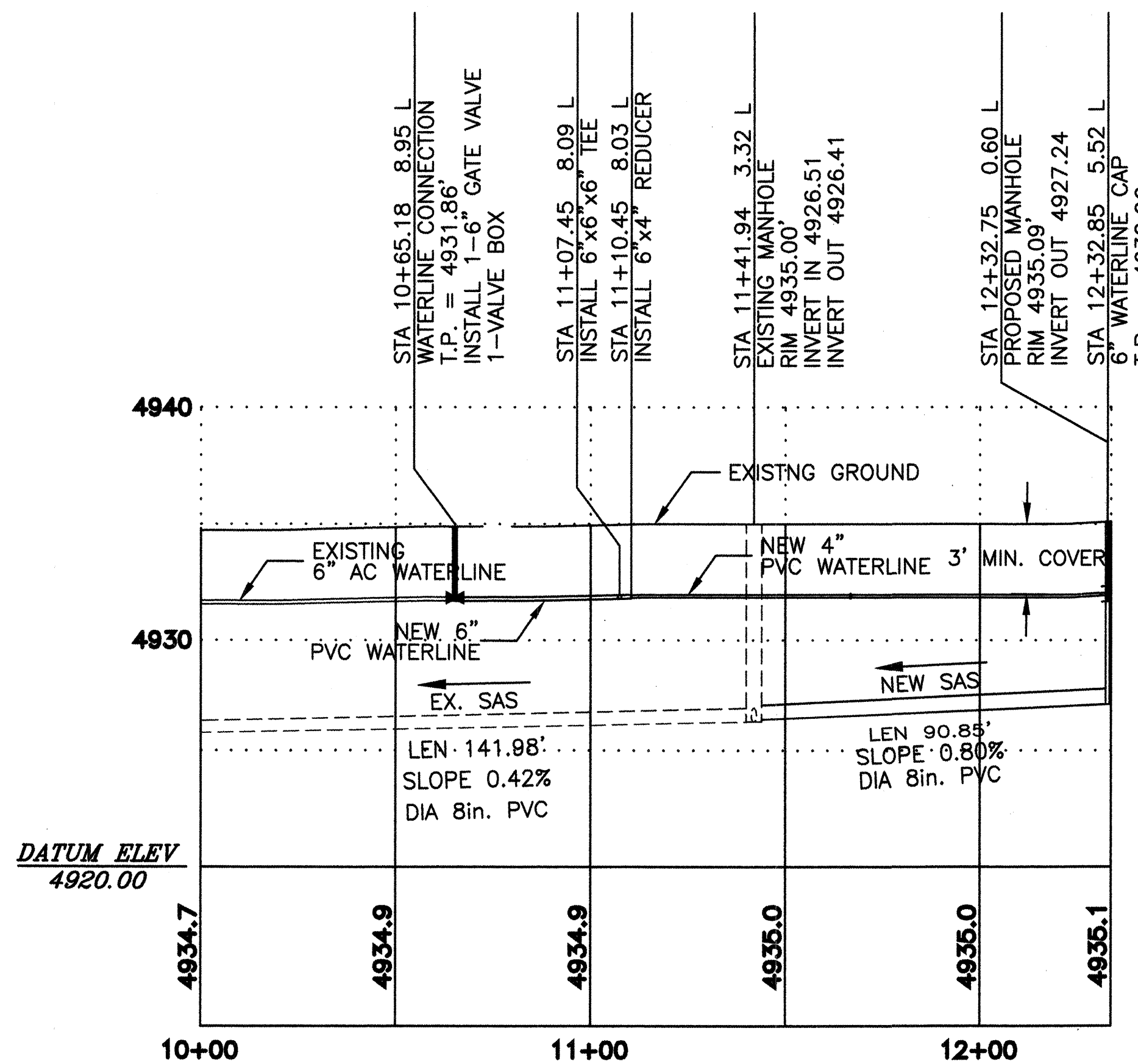
SCALE:
HORIZ: 1"=30'

BEALL ROAD SHUT-OFF PLAN

- 1 ONLY CITY WATER UTILITY DIVISION EMPLOYEES MAY OPERATE VALVES.
- 2 THE WATER SYSTEM DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 C.O.A. STANDARD SPECIFICATIONS.
- 3 CLOSE VALVE 921 IN BEALL ROAD.
- 4 INSTALL NEW WATER LINE AND FIRE HYDRANT IN BEALL ROAD.
- 5 TEST NEW WATER LINE AND FIRE HYDRANT PER SPECIFICATIONS.
- 6 OPEN VALVE 921.

BEALL ROAD SW PROFILE

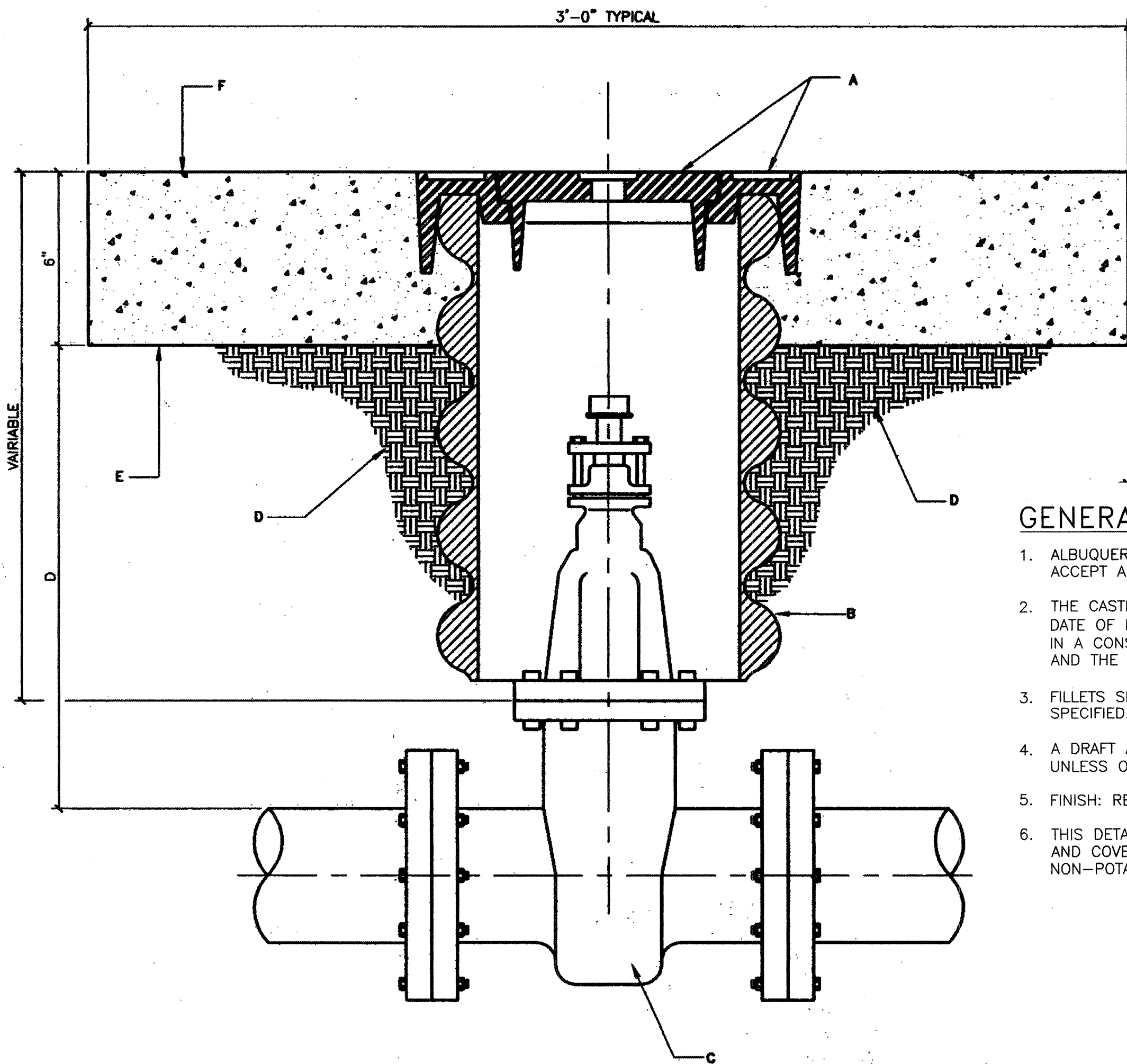
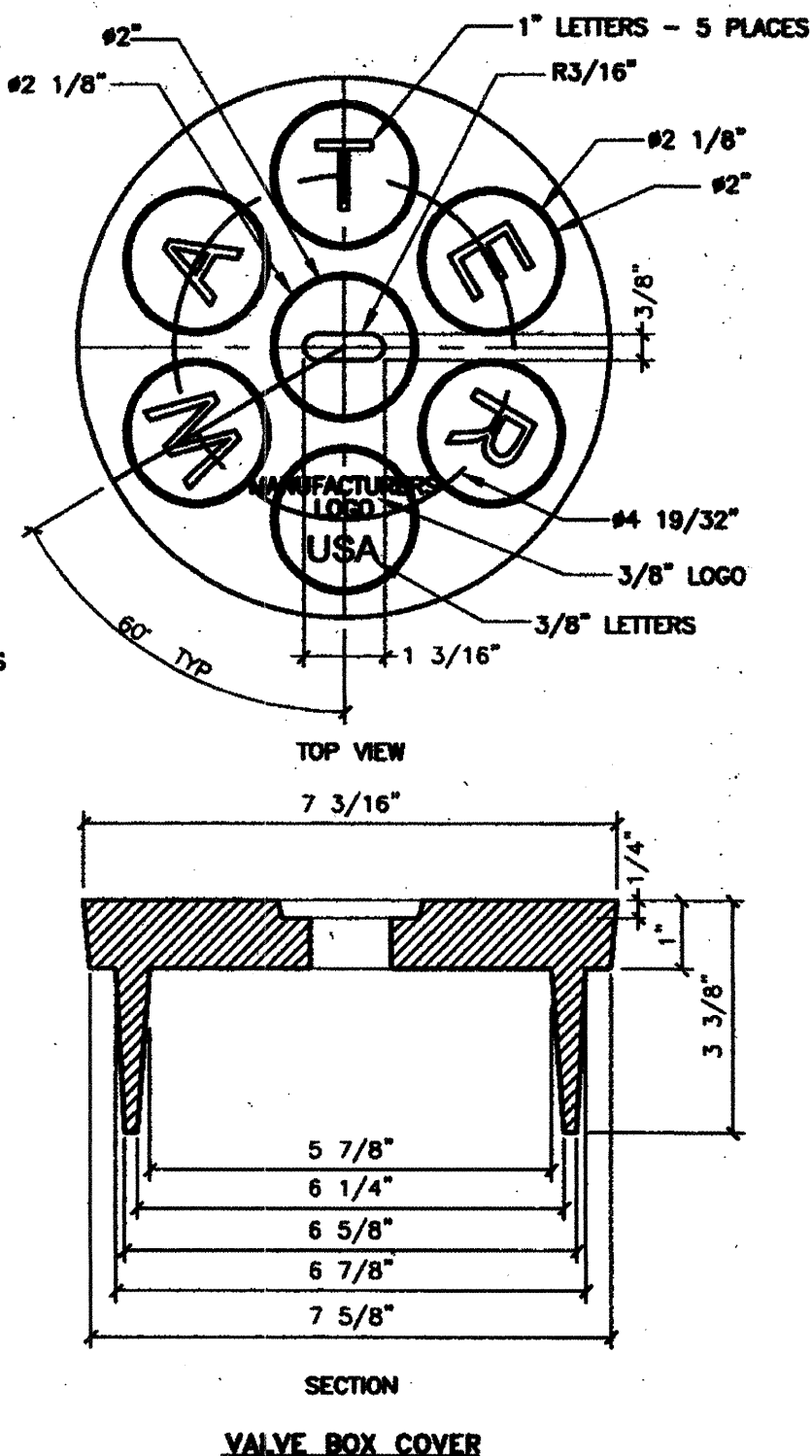
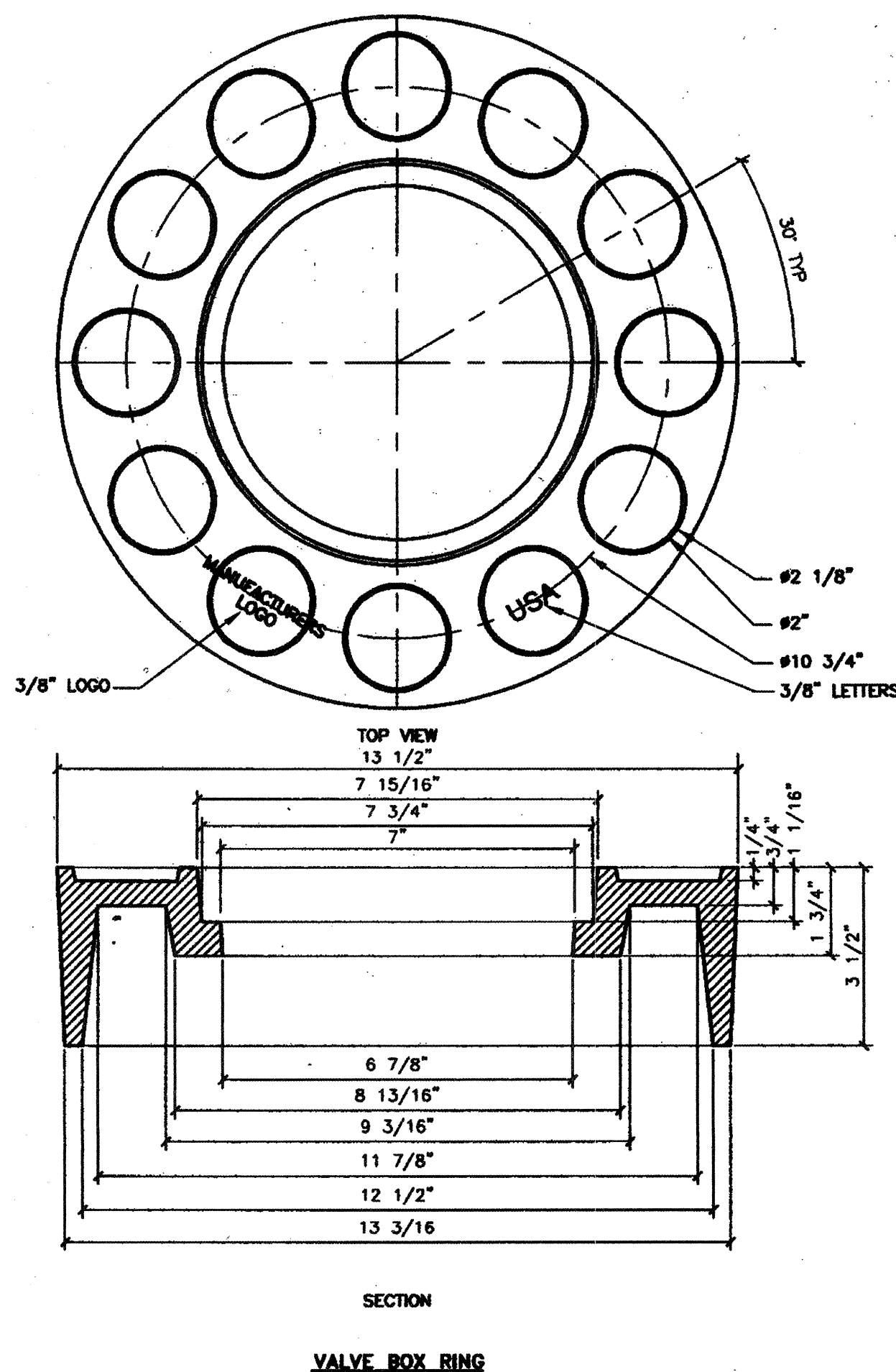
SCALE:
HORIZ: 1"=30'
VERT: 1"=5'



CONSTRUCTION NOTES

- S3 WET CONNECTION - CORE DRILL INTO EXISTING MANHOLE. REMOVE EXISTING FLOWLINE AND BENCHES. CONNECT 8" PVC TO MANHOLE. CONSTRUCT SMOOTH FLOWLINE TRANSITION WITH WELL FORMED BENCHES. (C.O.A. STD. DWG. 2101 - AS APPLICABLE)
- S7 8" PVC SEWER LINE - EXCAVATE TRENCH, CONSTRUCT PIPE BEDDING AND PLACE 8" PVC (SDR26) SEWER LINE AS SHOWN. BACKFILL TRENCH AND MATCH ADJACENT SURFACE.
- S20 MANHOLE SERVICE - DRILL INTO MANHOLE AND CONNECT 4" PVC SEWER SERVICE LINE. CONSTRUCT SERVICE AS SHOWN. (C.O.A. STD. DWG. 2118)
- S21 NEW 4" SANITARY SEWER SERVICE LINE INTO MANHOLE PER C.O.A. STD. DWG. 2118.
- W1 INSTALL HEAVY WEIGHT BOX COVER AND LID PER C.O.A. STD. DWG. 2369.
- P1 REMOVE AND REPLACE EXISTING GRAVEL SURFACE ROADWAY.

BERNALILLO COUNTY PUBLIC WORKS DIVISION TECHNICAL SERVICES	
TITLE: HUNTER COURT PAVING, SEWER, AND WATER PROJECT	
BEALL ROAD	
Design Review Committee	City Engineer Approval
Mo./Day/Yr.	Mo./Day/Yr.
City Project No. 7069.81	Zone Map No. N12
County Project No. TS01-20	Sheet 15A of 22



GENERAL NOTES - RING:

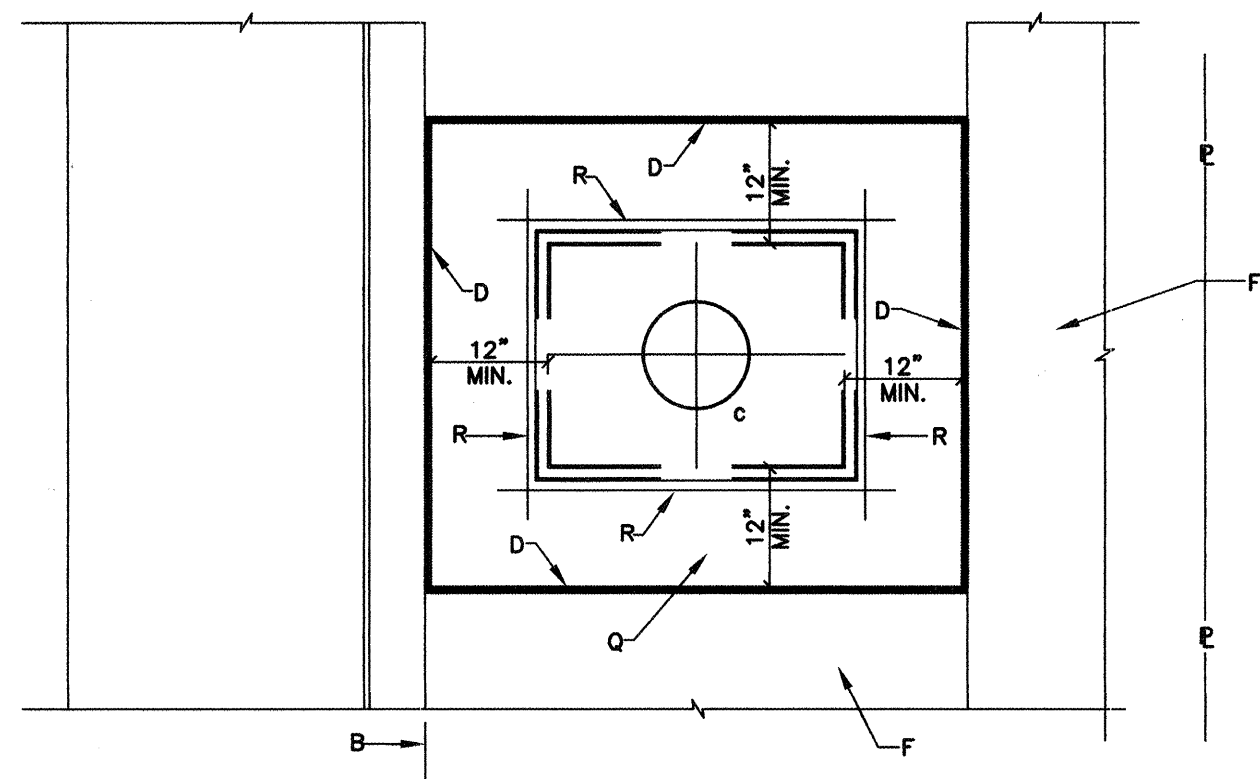
1. ALBUQUERQUE VALVE BOX RING DESIGNED TO ACCEPT AN ALBUQUERQUE VALVE BOX COVER.
2. THE CASTING NUMBER, MANUFACTURER'S LOGO, DATE OF MANUFACTURE, AND "USA" SHALL BE CAST IN A CONSPICUOUS LOCATION ON BOTH THE RING AND THE COVER.
3. FILLETS SHALL BE 1/4" R UNLESS OTHERWISE SPECIFIED.
4. A DRAFT ANGLE OF 3'-5' SHALL BE APPLIED UNLESS OTHERWISE SPECIFIED.
5. FINISH: REMOVE EXCESS IRON AND FIN.
6. THIS DETAIL DOES NOT APPLY FOR VALVE BOX RING AND COVER TO BE USED ON REUSE OR NON-POTABLE WATER SYSTEMS.

GENERAL NOTES - COVER:

1. ALBUQUERQUE VALVE BOX COVER DESIGNED TO FIT INTO AN ALBUQUERQUE VALVE BOX RING.
2. THE CASTING NUMBER, MANUFACTURER'S LOGO, DATE OF MANUFACTURE, AND "USA" SHALL BE CAST IN A CONSPICUOUS LOCATION ON BOTH THE RING AND THE COVER.
3. FILLETS SHALL BE 1/4" R UNLESS OTHERWISE SPECIFIED.
4. A DRAFT ANGLE OF 3'-5' SHALL BE APPLIED UNLESS OTHERWISE SPECIFIED.
5. FINISH: REMOVE EXCESS IRON AND FIN.

KEYED NOTES - COVER:

- A. VALVE BOX RING AND COVER. SEE DWG. 2328.
- B. 10" DIAMETER RIBBED OR CORRUGATED PVC OR PE PIPE WITH SMOOTH INTERIOR.
- C. NEW OR EXISTING VALVE.
- D. COMPACTED BACKFILL. SOIL OR BASE COURSE MATERIAL (95% COMPACTION). SEE SECTION 701.
- E. 3'-0" x 3'-0" OCTAGONAL CONCRETE COLLAR. COLLAR IS TO BE TAPERED IN UNPAVED ROADWAYS AND FLUSH IN PAVED ROADWAY. CONCRETE STRENGTH SHALL BE PER SECTION 101 OF THE STANDARD SPECIFICATIONS, LATEST EDITION.
- F. TOP OF CONCRETE COLLAR SHALL BE STAMPED WITH LINE SIZE AND DIRECTION. MINIMUM LETTER SIZE SHALL BE 3" IN HEIGHT.

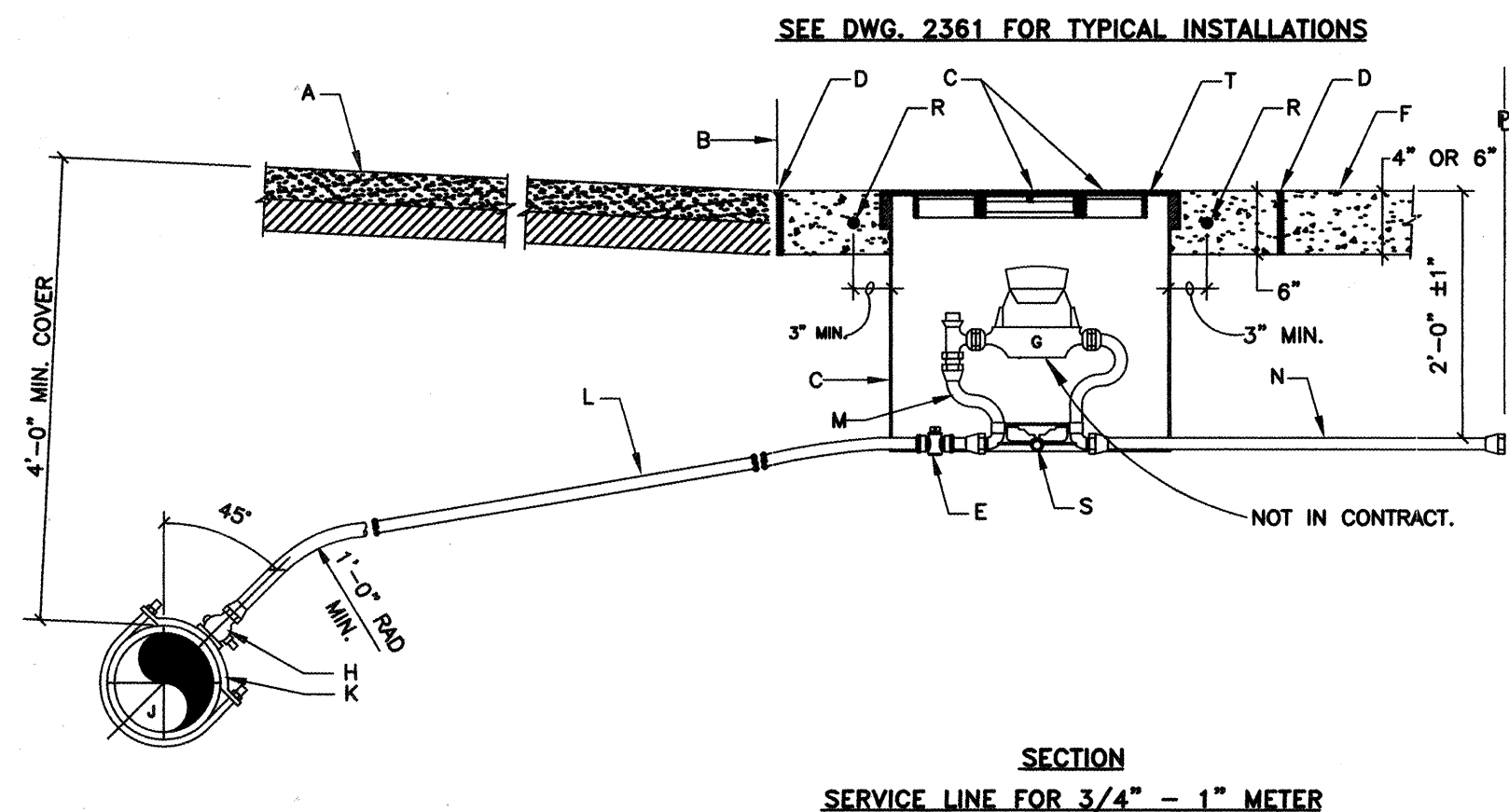


GENERAL NOTES-METER:

1. THE METER SHALL BE SET UTILIZING A COPPER-SETTER. COPPER-SETTER HEIGHT 10" FOR 1" METER. 7" FOR 3/4" METER.
2. THE VALVE AND METER REGISTER BOX SHALL BE LOCATED UNDER THE LID OPENING. WHERE TWO METERS ARE TO BE INSTALLED IN A SINGLE METER BOX, THE METER REGISTERS SHALL BE WITHIN READING RANGE OF THE LID OPENING.
3. METER BOX LOCATION TO CONFORM TO DWG. 2361.
4. WHEN CONTRACTOR DOES NOT INSTALL METER, CONTRACTOR SHALL PROVIDE REMOVABLE PLUGS FOR END OF COPPER-SETTER.
5. EXISTING CONCRETE TO BE SAWCUT.

KEYED NOTES-METER:

- A. STREET SURFACE.
- B. EDGE OF PAVEMENT.
- C. CAST IRON METER BOX, COVER AND LID. SEE DWG. 2368 OR 2369.
- D. 1/2" EXPANSION JOINT.
- E. CURB STOP, LOCATE INSIDE METER BOX.
- F. SIDEWALK OR DRIVEPAD.
- G. METER. NOT IN CONTRACT.
- H. CORP STOP.
- J. MAIN WATER LINE.
- K. TAPPING SADDLE.
- L. COPPER SERVICE LINE.
- M. COPPER SETTER.
- N. TAILPIECE TO PROPERTY LINE WITH INSTA-TITE I.P.T. CAPPED FITTING.
- Q. CONCRETE PAD REQUIRED IN ALL AREAS.
- R. #4 REBAR CONTINUOUS ALL AROUND METER BOX.
- S. STABILIZER BAR. 12" LONG X 1/2" DIAMETER GALVANIZED STEEL PIPE.
- T. METER BOX LID SHALL BE FLUSH WITH SURROUNDING SIDEWALK.
- U. METER BOX, COVER AND LID, SEE DRAWING 2367. COVER FLUSH WITH SURFACE AND CENTERED OVER METER REGISTER.
- V. TAILPIECE 3' LONG, APPROVED COPPER TUBING WITH A CLEAN CUT AT END WITH TEMPORARY PLUG.



HDR PROJECT No.: 08429-020-035

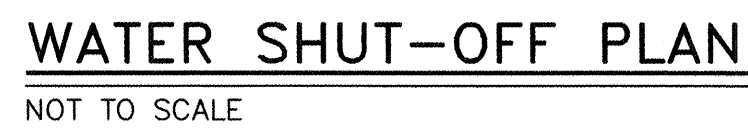


BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT
WATER DETAILS

Design Review Committee	City Engineer Approval	Mo. / Day / Yr.	Mo. / Day / Yr.
COA STD DRAFT	COA STD DRAFT		
City Project No. 7069.81	Zone Map No. N-11	Sheet 16	Of 22

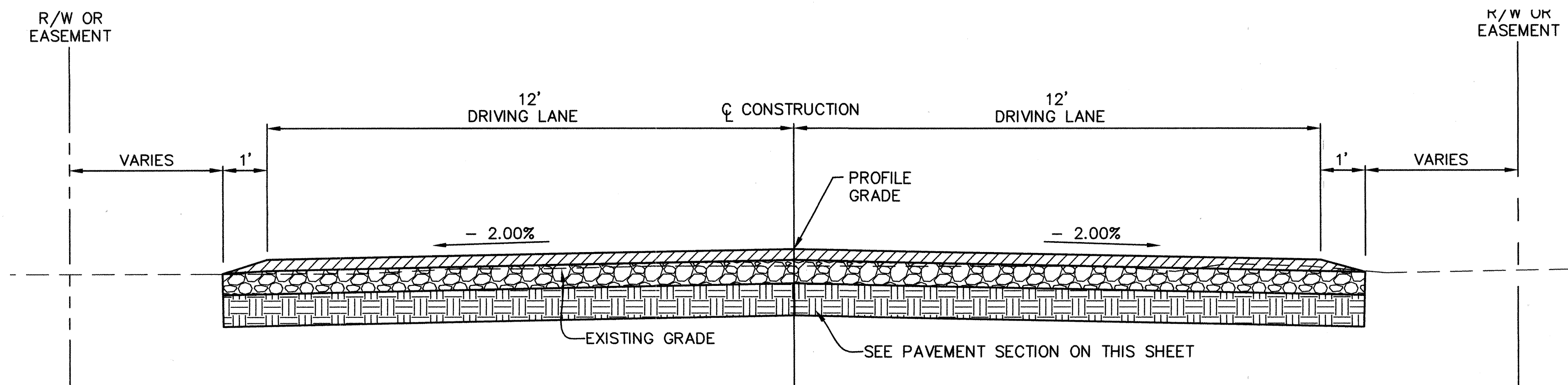
AS BUILT INFORMATION			
CONTRACTOR	WORK	DATE	DATE
ACS Monument Stamped "5-N1"	3 1/4" Aluminum Tablet set in concrete flush w/ asphalt	DATE	DATE
BENCH MARKS			
FIELD	ADJUSTED	DATE	DATE
NO. 1	RED MOUNTAIN	DATE	DATE
SURVEY INFORMATION			
NO. 1	RED MOUNTAIN	DATE	DATE
ENGINEERS SEAL			
COA STD DRAFT	REVISIONS	DATE	DATE
DESIGNED BY WfZ	DATE 6/03	CHECKED BY WfZ	DATE 6/03



1. CLOSE VALVES 1133 IN JOE SANCHEZ ROAD (APPROX. 40' NORTH OF BARCELONA), 1081 IN CLOVER LANE (APPROX. 40' WEST OF JOE SANCHEZ ROAD), 981 IN VERDE ROAD (APPROX. 90' WEST OF JOE SANCHEZ ROAD), AND 922 IN JOE SANCHEZ ROAD (APPROX. 40' SOUTH OF BLAKE ROAD).
2. INSTALL NEW WATERLINE CONNECTION AND VALVE IN ELSA DRIVE.
3. CLOSE NEW VALVE IN ELSA DRIVE AND OPEN VALVES 1133, 1081, 981, AND 922.
4. INSTALL REMAINDER OF WATERLINE AND FIRE HYDRANTS IN ELSA DRIVE.
5. OPEN VALVE IN ELSA DRIVE.
6. ONLY CITY WATER UTILITY DIVISION EMPLOYEES MAY OPERATE VALVES.
7. THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.

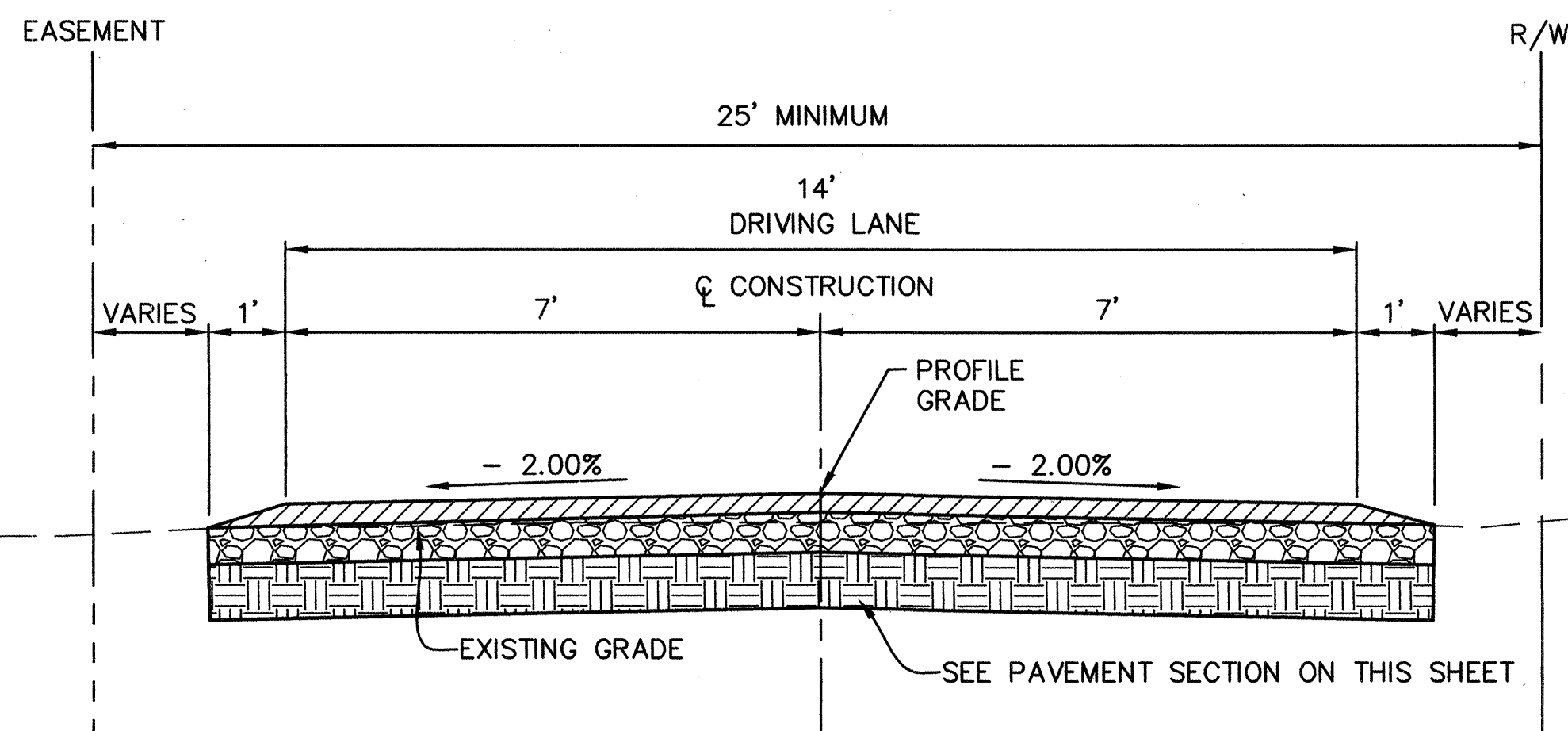
1. INSTALL NEW CONNECTION AND NEW VALVE AT STA. 14+77 (WATERLINE ESMT) IN BARCELONA ROAD UNDER PRESSURIZED CONDITIONS AND CLOSE VALVE.
2. CLOSE VALVE 971 IN HUNTER COURT (APPROX. 40' SOUTH OF VERDE ROAD).
3. INSTALL NEW CONNECTION AT 8+82.62 AND NEW VALVE AT STA. 8+90 IN HUNTER COURT AND CLOSE VALVE.
4. OPEN VALVE 971.
5. INSTALL REMAINDER OF WATERLINE IN HUNTER COURT AND EASEMENT WITH VALVES AND FIRE HYDRANTS.
6. OPEN VALVES AT STA. 8+90 IN HUNTER COURT AND STA. 14+77 IN BARCELONA ROAD (WATERLINE ESMT).
7. ONLY CITY WATER UTILITY DIVISION EMPLOYEES MAY OPERATE VALVES.
8. THE WATER SYSTEMS DIVISION (857-8200) WILL BE NOTIFIED BY THE CONTRACTOR SEVEN (7) WORKING DAYS IN ADVANCE OF ANY WORK WHICH MAY AFFECT THE EXISTING PUBLIC WATER FACILITIES. REFER TO SECTION 18 OF STANDARD SPECIFICATIONS.

HDR PROJECT No.: 08429-020-035												NO. DATE		DESIGNED BY WFO		DRAWN BY WFO		CHECKED BY WFO	
 HDR Engineering, Inc. 2155 LOUISIANA BLVD., NE SUITE 9500 ALBUQUERQUE, NM 87110 PHONE: (505) 884-6065 FAX: (505) 884-5969																			
BERNALILLO COUNTY PUBLIC WORKS DIVISION																			
TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT																			
WATER SHUT-OFF PLAN																			
Design Review Committee						City Engineer Approval						No. / Day / Yr.				No. / Day / Yr.			
APPROVED FEB 25 2004 SEAN REVIEW COMMITTEE						APPROVED APR - 8 2004 CITY ENGINEER						Last Design Update							
City Project No. 7069.81						Zone Map No. N-11						Sheet 17				Of 22			



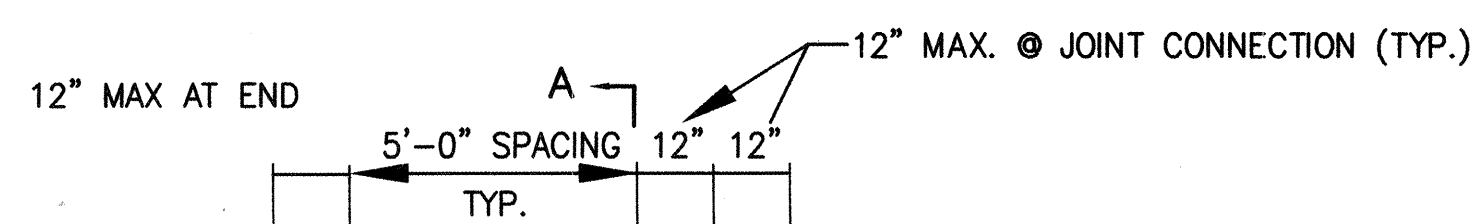
TYPICAL HUNTER COURT ROADWAY SECTION

SCALE: 1"=2'

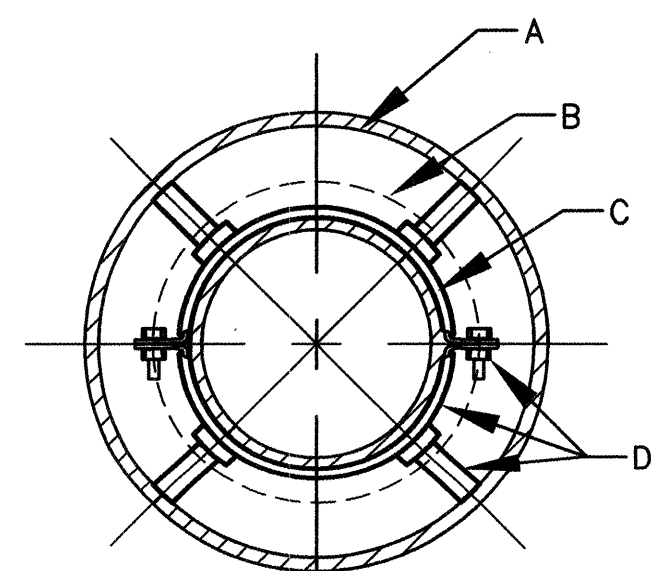


TYPICAL ELSA DRIVE ROADWAY SECTION

SCALE: 1"=2'



PLAN



CENTERED SECTION A-A

JACK AND BORE DETAILS

N.T.S.

GENERAL NOTES:

1. METHOD OF END CLOSURE TO BE DESIGNED TO SUIT CONDITIONS.

CONSTRUCTION NOTES:

- A. WELDED STEEL CASING. DIAMETER AND WALL TO BE DESIGNED TO SUIT CONDITIONS.
- B. BELL DIA OF CARRIER PIPE
- C. CARRIER PIPE
- D. MANUFACTURED CASING SPACER. INSTALLATION AND SPACING PER MANUFACTURER'S RECOMMENDATIONS.

LENGTH OF RESTRAINT FOR TEES (FT)	
BRANCH SIZE	10"x10"xBRANCH*
4"	AT FITTING
6"	AT FITTING
8"	AT FITTING
10"	AT FITTING
* EACH RUN PIPE SHALL HAVE MINIMUM 10' W/O JOINTS ON EACH SIDE OF BRANCH.	

LENGTH OF RESTRAINED PIPE (FEET) FOR HORIZONTAL BENDS					
PIPE SIZE	90°	45°	22-1/2°	11-1/4°	VALVE
4"	20'	20'	20'	20'	40'
6"	20'	20'	20'	20'	60'
8"	40'	20'	20'	20'	60'
10"	40'	20'	20'	20'	80'

NOTE RESTRAINING GLANDS SHALL BE USED AT ALL FITTINGS AND THE CONNECTIONS SHALL BE RESTRAINED WITH HARNESSES PER TABLE

LENGTH OF RESTRAINED PIPE (FEET) FOR REDUCERS			
PIPE SIZE	PIPE SIZE	SMALL SIDE	LARGE SIDE
8"	6"	40'	40'

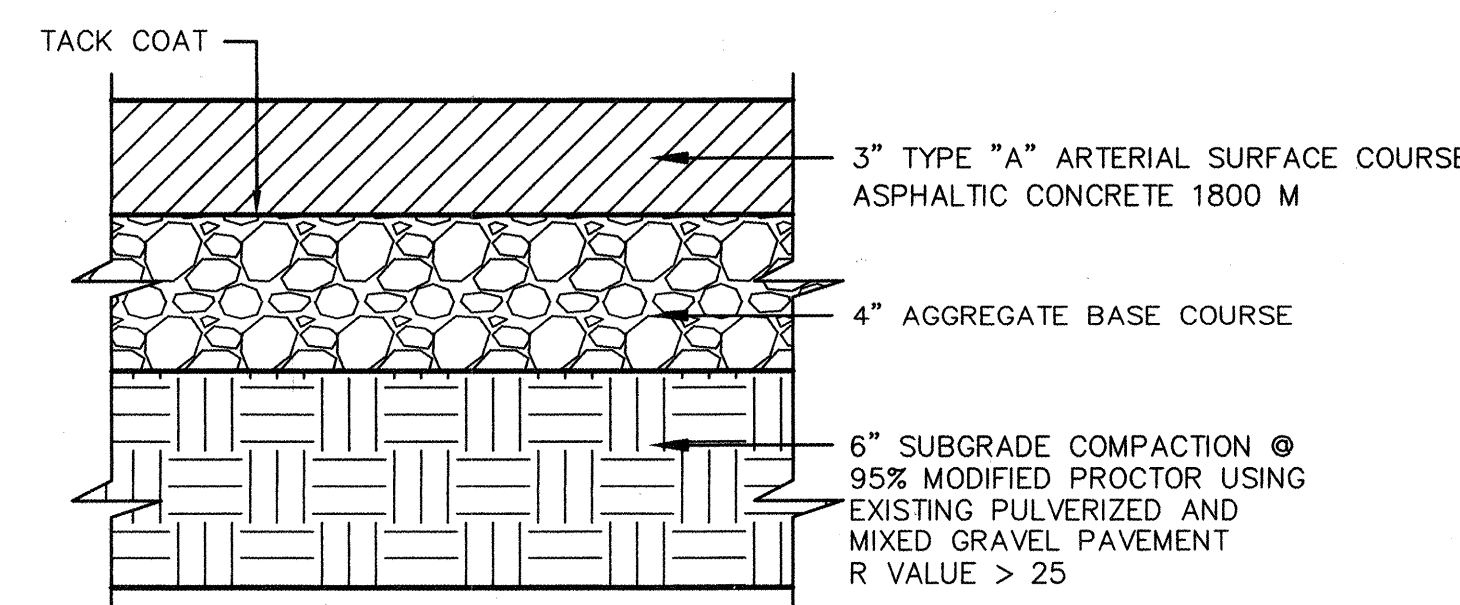
WATERLINE RESTRAINT TABLE

WATER SERVICE SCHEDULE		
STATION	LENGTH OF SERVICE	ADDRESS
12+46	18'	2801 HUNTER CT
14+16	17'	2803 HUNTER CT
15+40	17'	2805 HUNTER CT VACANT
17+04	17'	2807 HUNTER CT VACANT
18+01	18'	2809 HUNTER CT VACANT
18+95	18'	2811 HUNTER CT VACANT
19+80	18'	2813 HUNTER CT VACANT
22+19	19'	2815 HUNTER CT
23+54	19'	2817 HUNTER CT
28+40	12'	2839 HUNTER CT
30+40	13'	2843A HUNTER CT
32+40	13'	2843B HUNTER CT
34+95	13'	2847 HUNTER CT
37+90	14'	2851 HUNTER CT
38+80	47'	2855 HUNTER CT
12+40	23'	2918 JOE SANCHEZ RD (ELSA DRIVE)
13+80	23'	2920 JOE SANCHEZ RD (ELSA DRIVE)
15+60	23'	2928 JOE SANCHEZ RD (ELSA DRIVE)
17+05	23'	2938 JOE SANCHEZ RD (ELSA DRIVE)
18+07	70'	2948 JOE SANCHEZ RD (ELSA DRIVE)

SEWER SERVICE SCHEDULE				
STATION	LENGTH OF SERVICE	INVERT @ PL	ADDRESS	FINISHED FLOOR
12+56	28'	4924.68	2801 HUNTER CT	4928.68
14+26	26'	4924.65	2803 HUNTER CT	4928.65
15+50	26'	4925.00	2805 HUNTER CT VACANT	N/A
17+14	26'	4925.50	2807 HUNTER CT VACANT	N/A
18+05	27'	4926.00	2809 HUNTER CT VACANT	N/A
18+14	27'	4926.00	2811 HUNTER CT VACANT	N/A
19+05	28'	4926.00	2813 HUNTER CT VACANT	N/A
19+89	28'	4927.40	2815 HUNTER CT	4931.40
22+29	28'	4927.38	2817 HUNTER CT	4931.38
23+54	28'	4926.52	2839 HUNTER CT	4930.52
28+50	23'	4927.09	2843A HUNTER CT	4931.09
30+50	23'	4927.21	2843B HUNTER CT	4931.21
35+05	23'	4926.64	2847 HUNTER CT	4931.64
38+00	23'	4926.84	2851 HUNTER CT	4930.82
38+82	45'	4926.44	2855 HUNTER CT	4930.44
12+50	13'	4921.18	2918 JOE SANCHEZ RD (ELSA DRIVE)	N/A
13+90	13'	4922.06	2920 JOE SANCHEZ RD (ELSA DRIVE)	N/A
15+25	13'	4922.85	2928 JOE SANCHEZ RD (ELSA DRIVE)	4931.53
17+15	13'	4924.09	2938 JOE SANCHEZ RD (ELSA DRIVE)	4929.35
18+17	41'	4925.25	2948 JOE SANCHEZ RD (ELSA DRIVE)	4932.64

SEWER & WATER SERVICE SCHEDULES

SCALE: N.T.S.



TYPICAL PAVEMENT SECTION

SCALE: N.T.S.

HDR PROJECT No.: 08429-020-035

HDR
HDR Engineering, Inc.
2155 LOUISIANA BLVD., NE
SUITE 9000
ALBUQUERQUE, NM 87110
PHONE: (505) 884-5005
FAX: (505) 884-5969

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

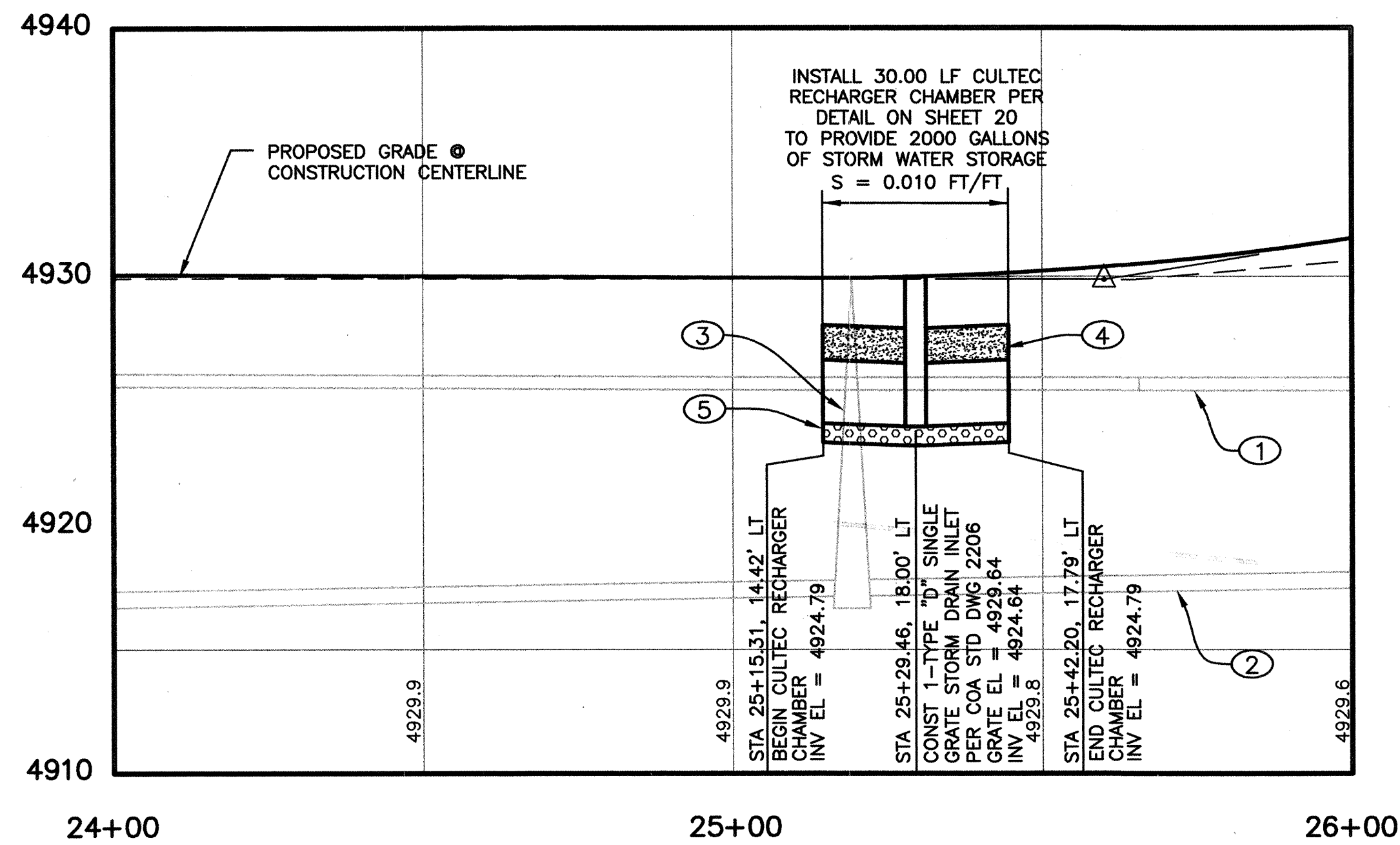
TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT
ROADWAY TYPICAL SECTION AND UTILITY DETAILS

Design Review Committee	City Engineer Approval	No. / Day / Yr.	No. / Day / Yr.
APPROVED FEB 25 2004	APPROVED APR - 8 2004 CITY ENGINEER		
Last Design Update			

City Project No. **7069.81** Zone Map No. **N-11** Sheet **18** Of **22**

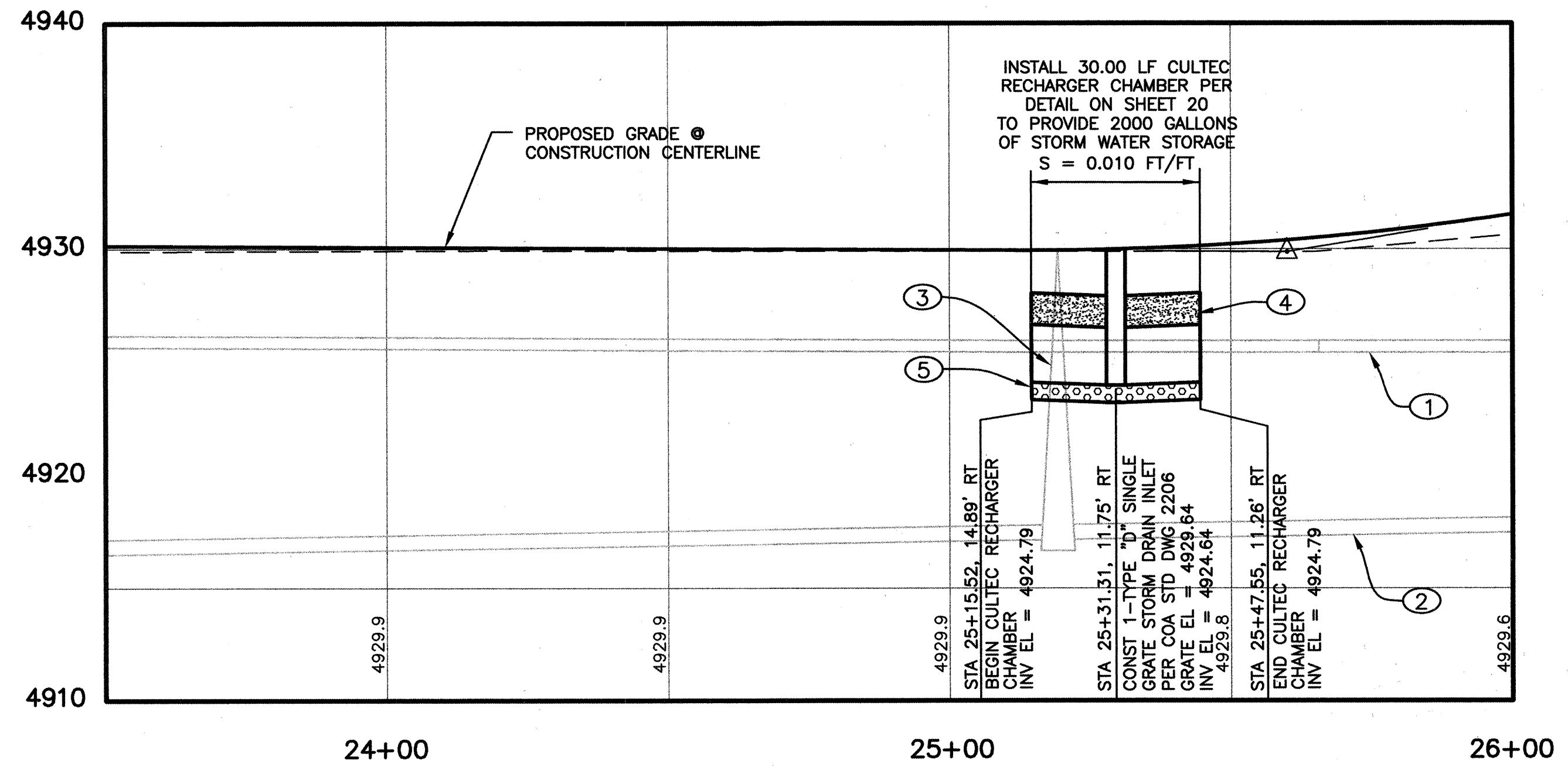
AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEERS SEAL	
CONTRACTOR	WORK STARTED BY	ACS Monument Stamped "5-N11"	DATE	FIELD NOTES	BY	REMARKS REVISIONS DESIGN	DATE
3 1/4" Aluminum Tablet set in concrete flush w/ asphalt at the Intersection of Barcelona Road, Barboa Road, and Joe Sanchez Road.	DATE	Joe Sanchez Road.	DATE	NO. 1	RED MOUNTAIN		DATE
DATE	DATE	Geographic Position (NAD 1927) in feet	DATE			DESIGNED BY	DATE
		N.M. State Plane Coordinates (Central Zone)				DRAWN BY	DATE
		X = 367,209.56, Y = 1,466,660.34				CHECKED BY	DATE
		Elevation = 4927.562, NGVD29, in feet					
		Ground to Grid Factor = 0.99968444					





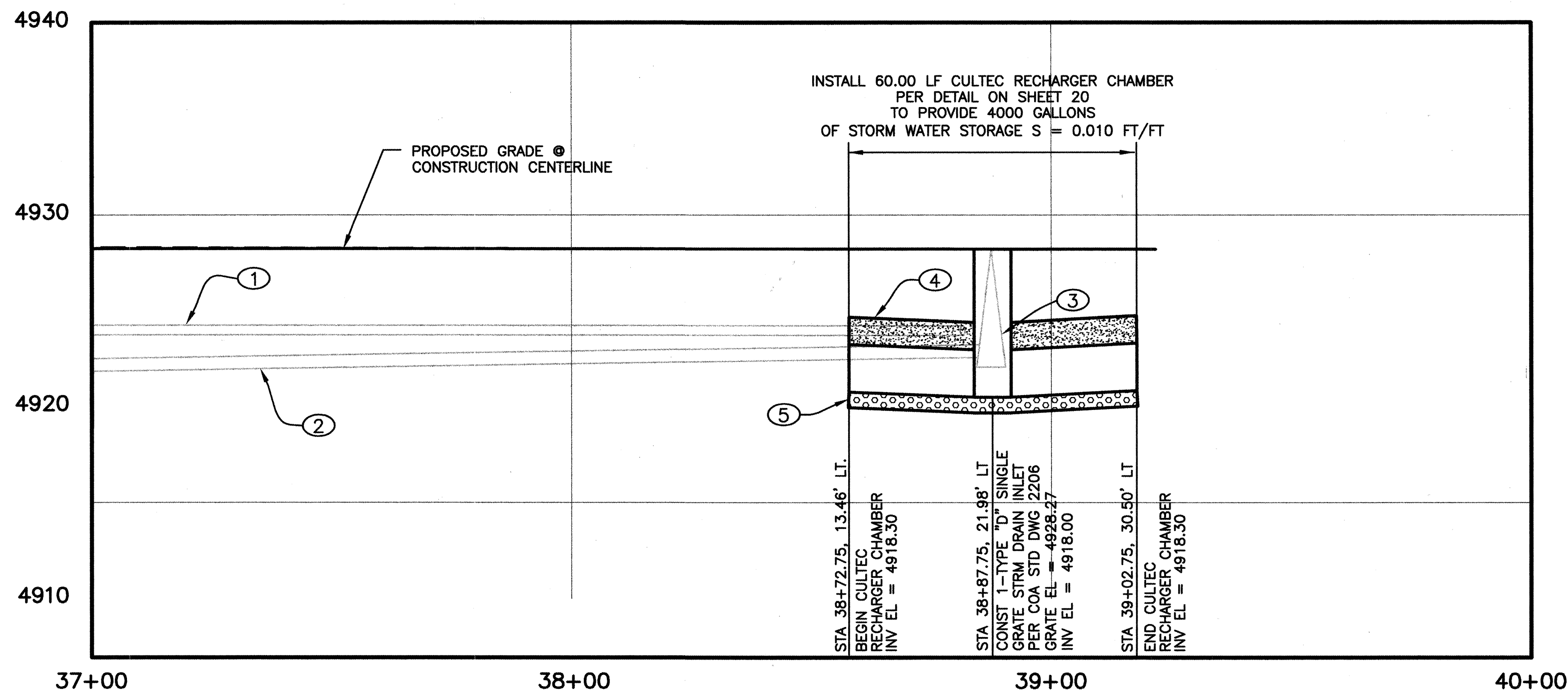
PROFILE: STORM DRAIN LINE #1

SCALE: 1"=20' HORIZ.
1"=5' VERTICAL



PROFILE: STORM DRAIN LINE #2

SCALE: 1"=20' HORIZ.
1"=5' VERTICAL

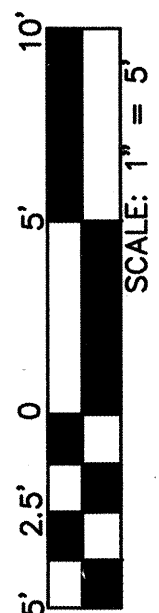
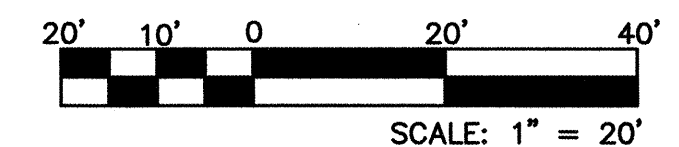


PROFILE: STORM DRAIN LINE #3

SCALE: 1"=20' HORIZ.
1"=5' VERTICAL

KEYED NOTES:

1. NEW 6" PVC WATERLINE. SEE PLAN & PROFILE SHEETS FOR CONSTRUCTION.
2. NEW 8" PVC SAS LINE. SEE PLAN & PROFILE SHEETS FOR CONSTRUCTION.
3. NEW SAS MANHOLE. SEE PLAN & PROFILE SHEETS FOR CONSTRUCTION.
4. PLACE 17" OF COMPACTED FILL OVER RECHARGER CHAMBER.
5. PLACE 6" STONE BASE UNDER RECHARGER CHAMBER.



HDR PROJECT No.: 08429-020-035

HDR
HDR Engineering, Inc.

2155 LOUISIANA BLVD., NE
SUITE 9000
ALBUQUERQUE, NM 87110
PHONE: (505) 884-5905
FAX: (505) 884-5909

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

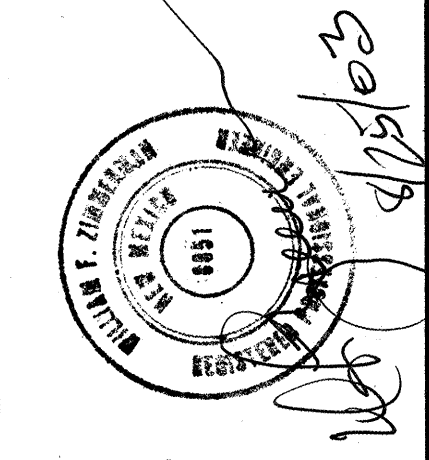
TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT
HUNTER COURT CULVERT PROFILES

Design Review Committee	City Engineer Approval	City Engineer	No. / Day / Yr.	No. / Day / Yr.
APPROVED FEB 25 2004	APPROVED APR - 8 2004	CITY ENGINEER		
Design Review Committee	City Engineer	City Engineer		
Design Review Committee	City Engineer	City Engineer		
Design Review Committee	City Engineer	City Engineer		

City Project No. **7069.81**

Zone Map No. **N-11**

Sheet **19** Of **22**



NO.	DATE	REMARKS	BY
1	6/03	DESIGN	WFZ
2	6/03	REVISIONS	HDR
3	6/03	DESIGN	WFZ

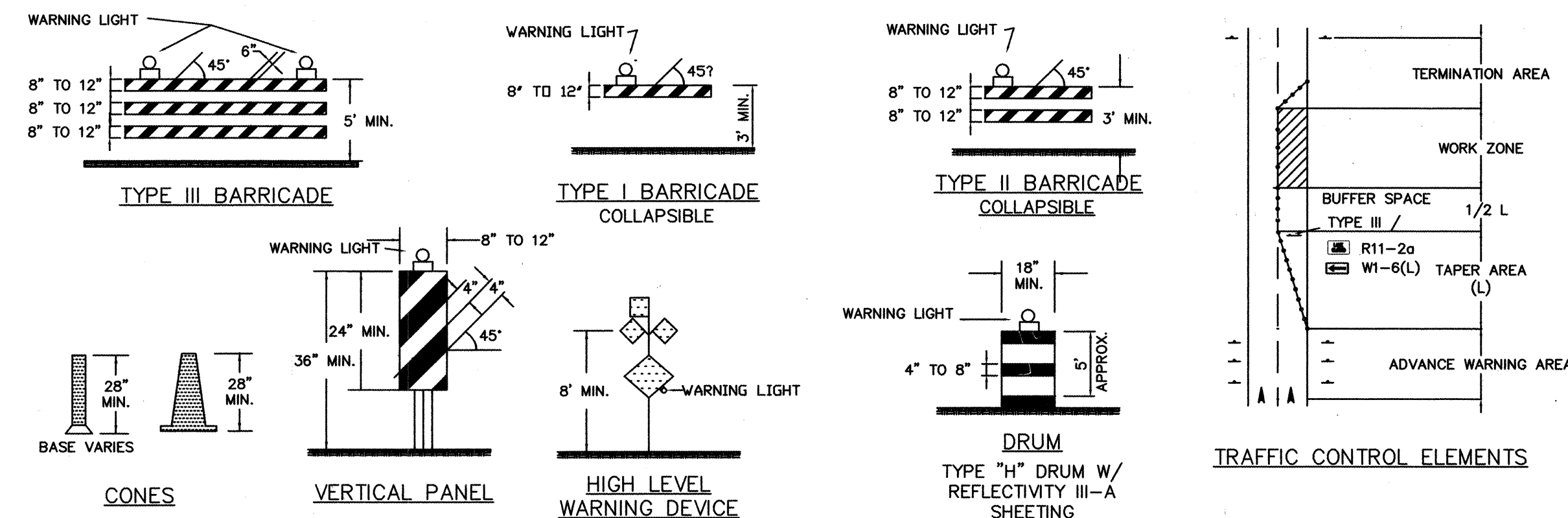
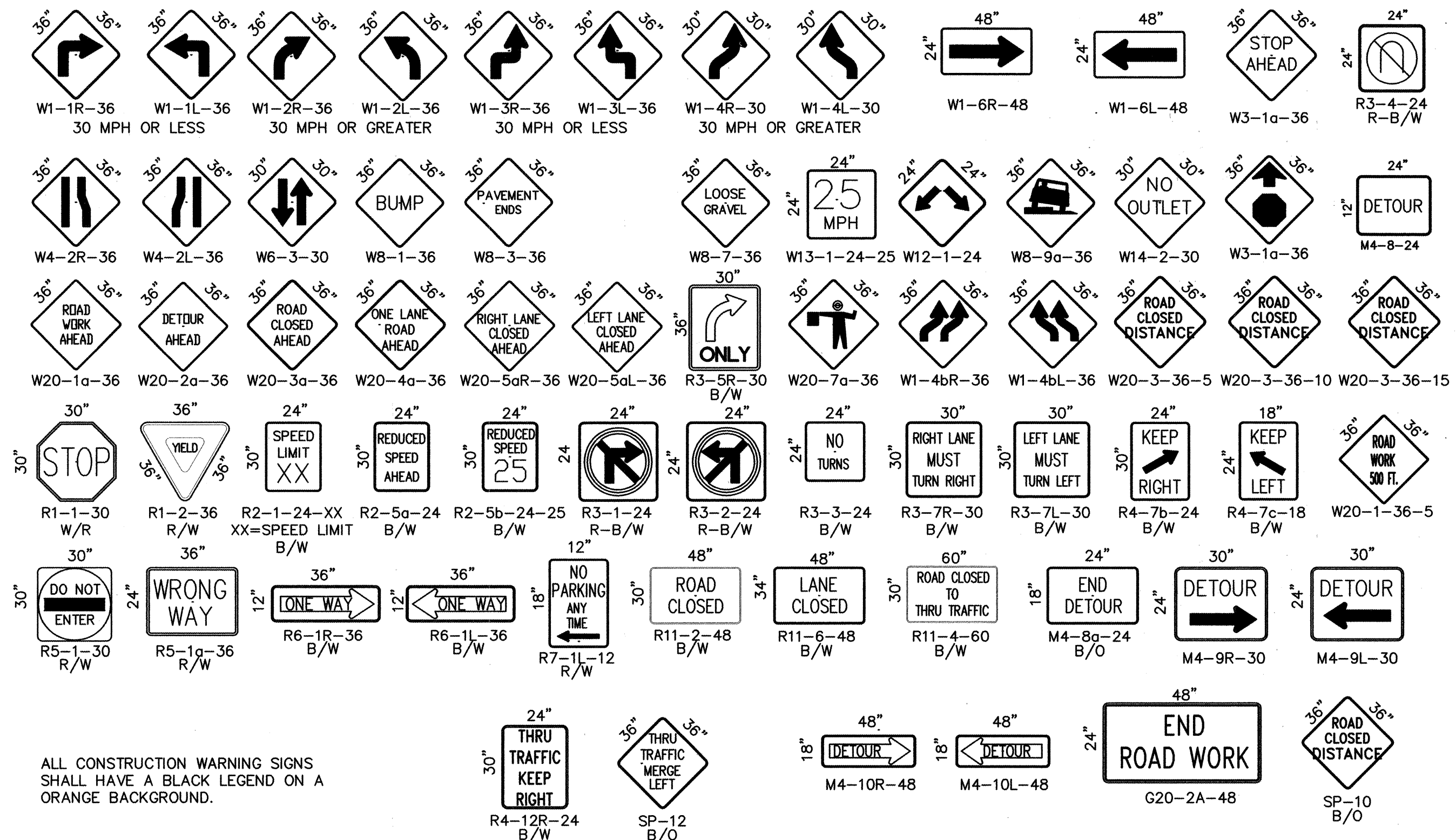
AS BUILT INFORMATION	BENCH MARKS	SURVEY INFORMATION	ENGINEERS SEAL
CONTRACTOR WORK STARTED BY DATE ACCEPTANCE BY DATE FIELD CLATION BY DATE DRAWINGS CORRECTED BY DATE RECORDED BY NO.	ACS Monument Stamped "5-N11" 3 1/4" Aluminum Tablet set in concrete flush w/ asphalt at the Intersection of Barcelona Road, Barboa Road, and Joe Sanchez Road. Geographic Position (NAD 1927) in feet N.M. State Plane Coordinates (Central Zone) X = 367,209.56, Y = 1,466,660.34 Elevation = 4927.562, NGVD29, in feet Ground to Grid Factor = 0.99968444	FIELD NOTES NO. 1 BY RED MOUNTAIN	

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 ACCESSSES. 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 OCCUPANCY 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.

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

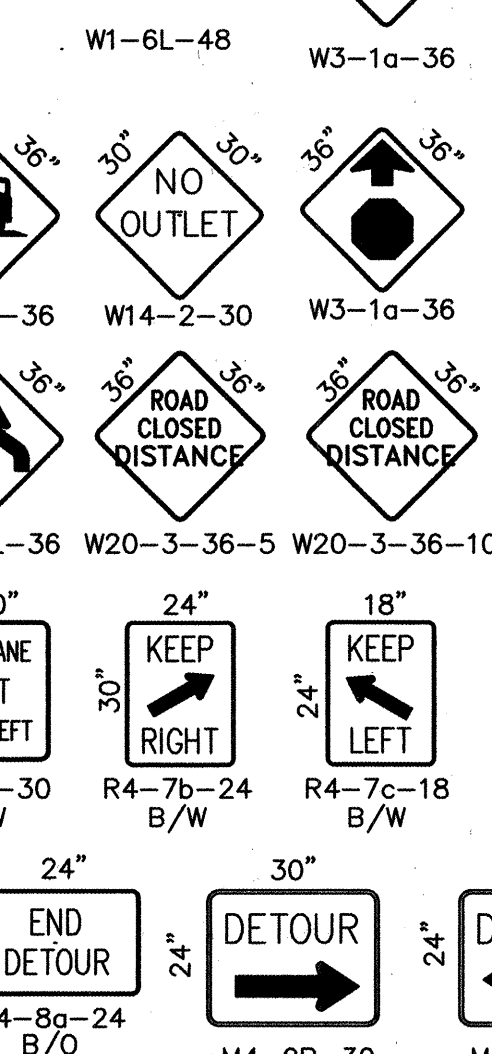
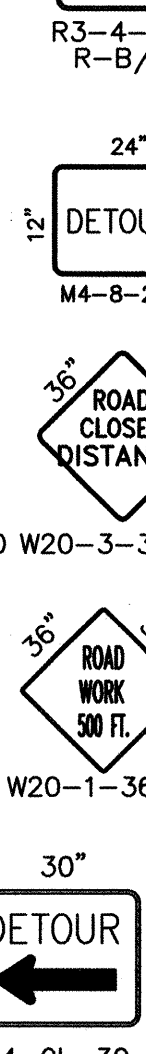
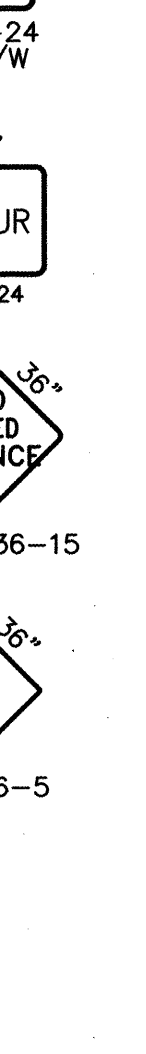
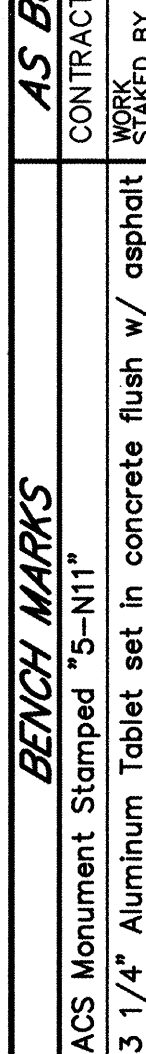
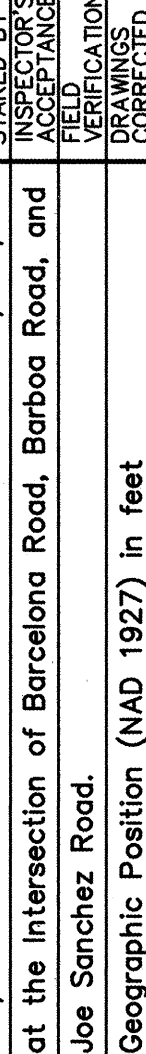
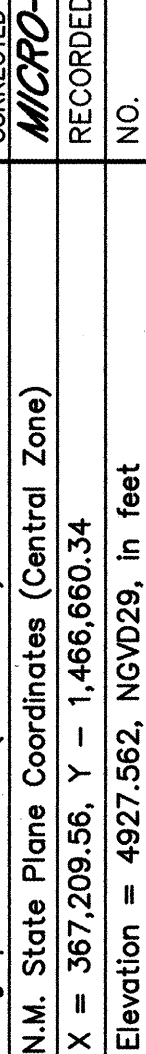
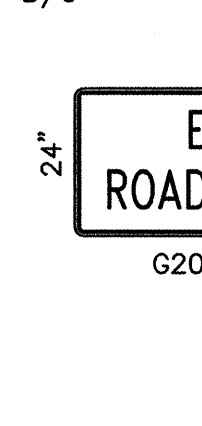
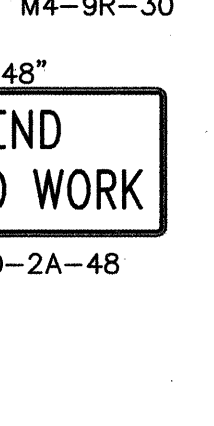
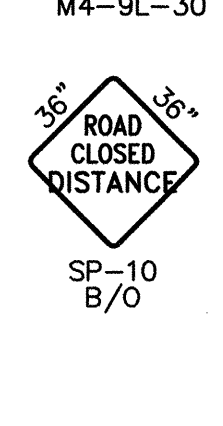
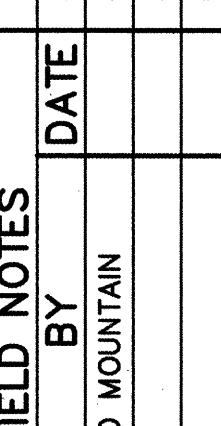
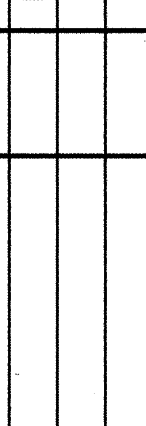
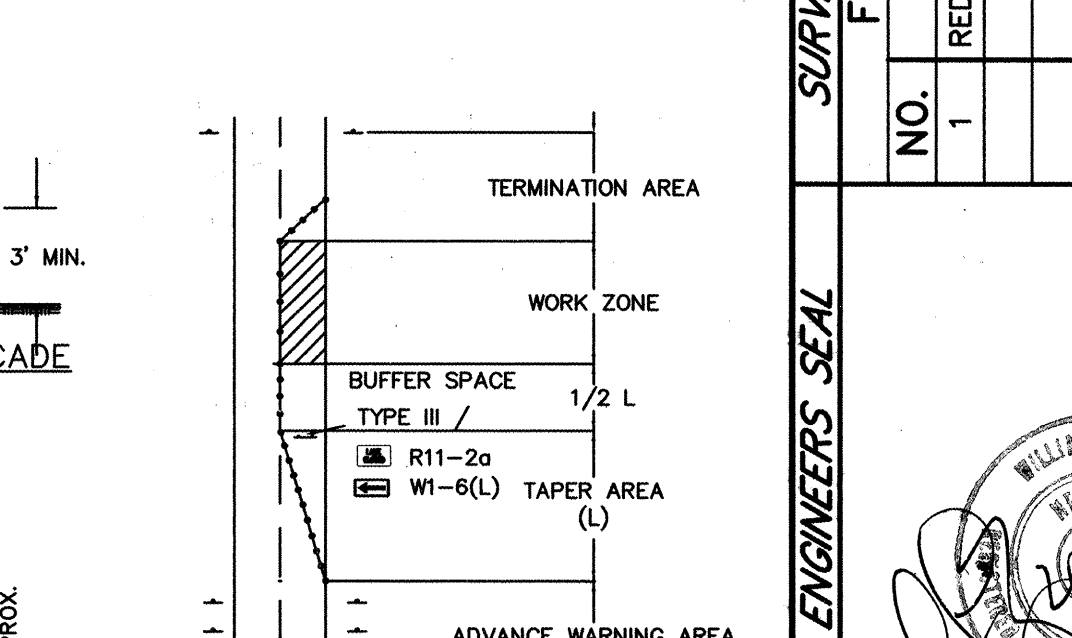


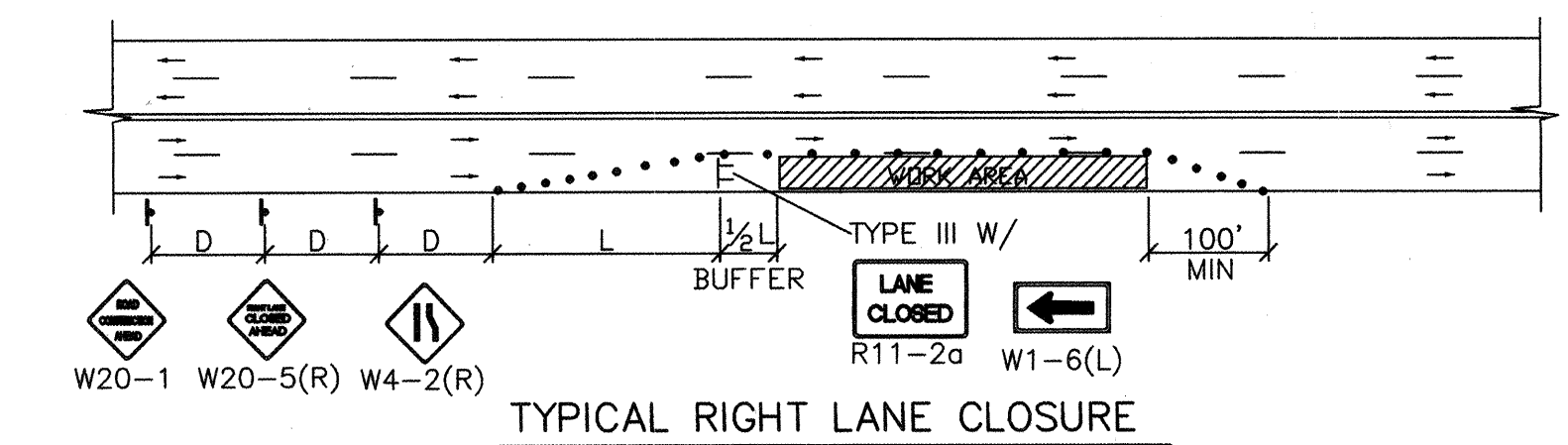
LEGEND

- | SYMBOL | WORK AREA |
|--------|---|
| • | BARRICADE – TYPE I, TYPE II, OR TYPE "H" DRUM W/
REFLECTIVITY III–A SHEETING |
| ⊥ | BARRICADE – TYPE III |
| x | VERTICAL PANEL |
| f | WARNING SIGN |
| D | DISTANCE BETWEEN SIGNS – A DISTANCE MEASURED IN FEET EQUAL
TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET |
| ⊏ | FLAGMAN POSITION |
| S | SPACING BETWEEN BARRICADES– A DISTANCE MEASURED IN FEET
EQUAL TO THE SPEED LIMIT OF THE STREET |
| L | TAPER LENGTH – SEE CHART BELOW |

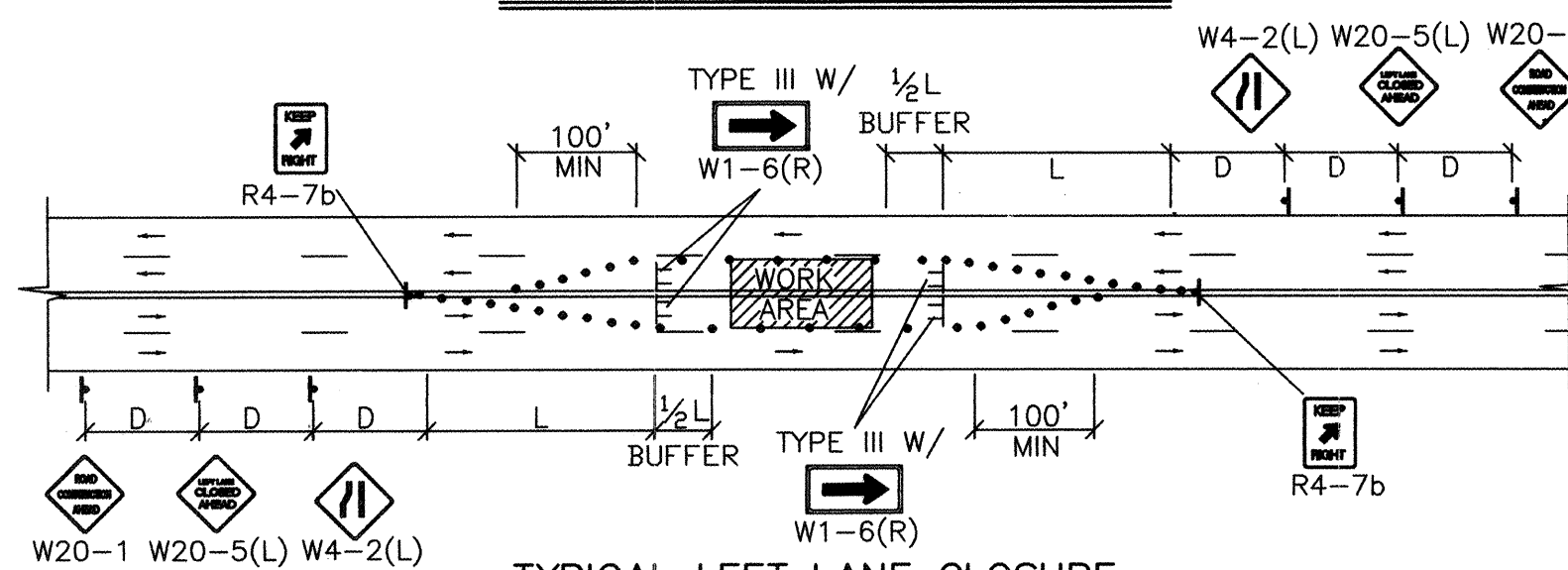
THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

SIGN FACE DETAILS

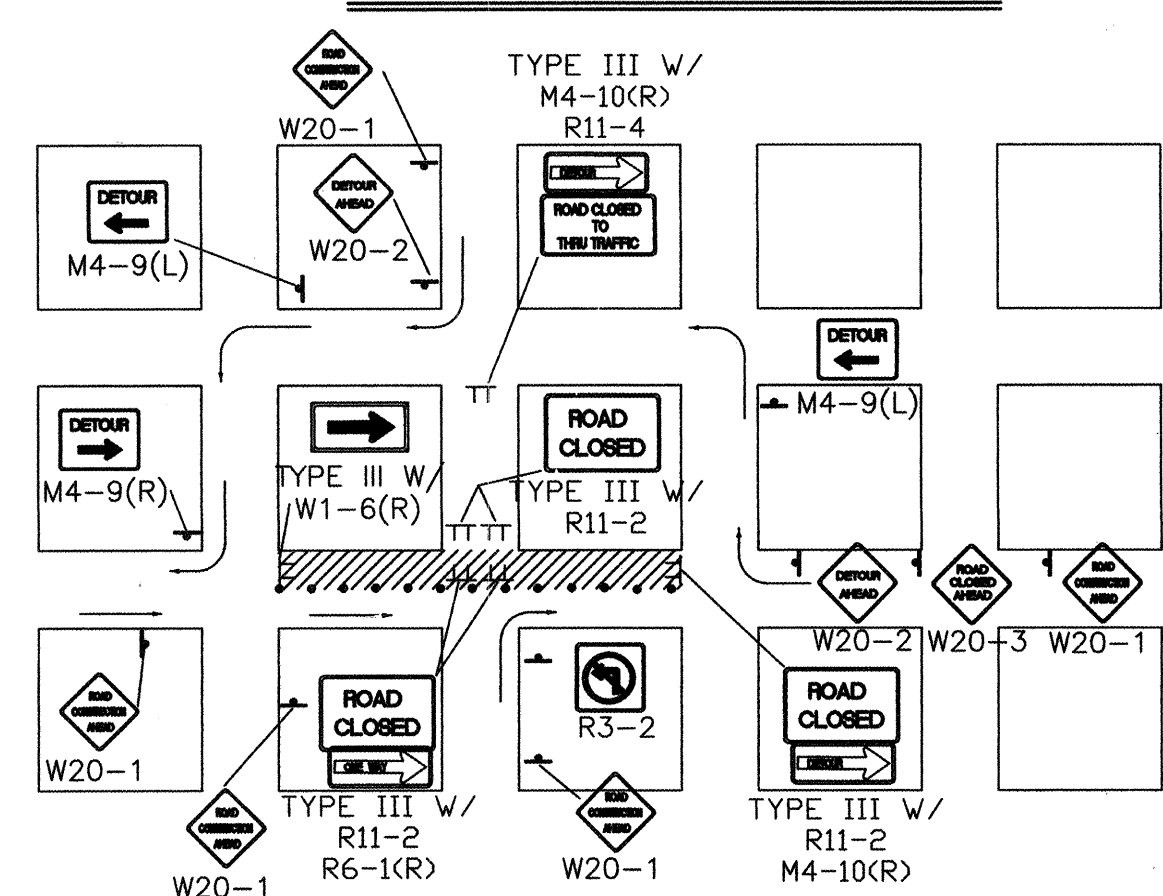
													
													
													
TRAFFIC CONTROL ELEMENTS													
 HDR Engineering, Inc. 2155 LOUISIANA BLVD., NE SUITE 9000 ALBUQUERQUE, NM 87110 MAIN: (505) 884-6065 FAX: (505) 884-5969													
BERNALILLO COUNTY PUBLIC WORKS DIVISION													
TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS													
Design Review Committee				City Engineer Approval				No. / Day / Yr.		No. / Day / Yr.			
COA				STD				Last Design Update		Sheet			
City Project No. 706981				Zone Map No. N-11				Sheet 21		Of 22			



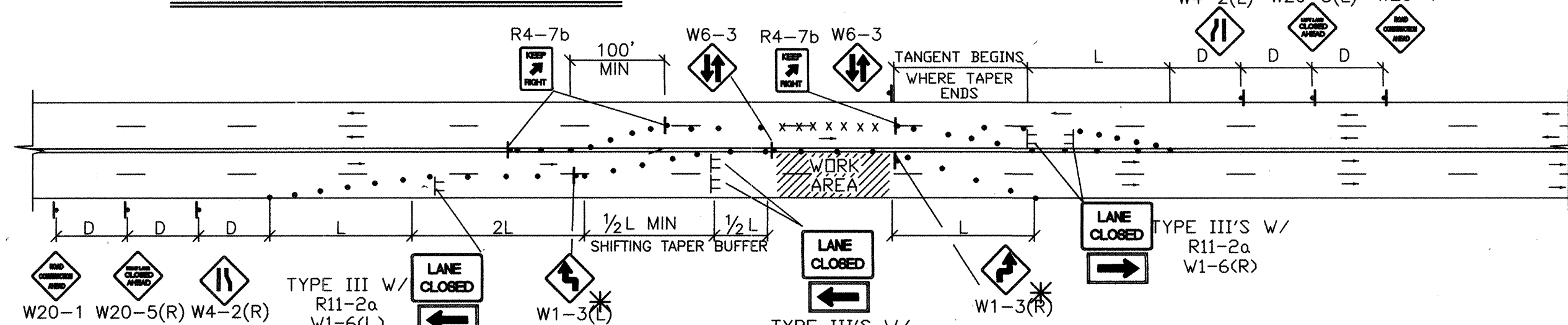
TYPICAL RIGHT LANE CLOSURE



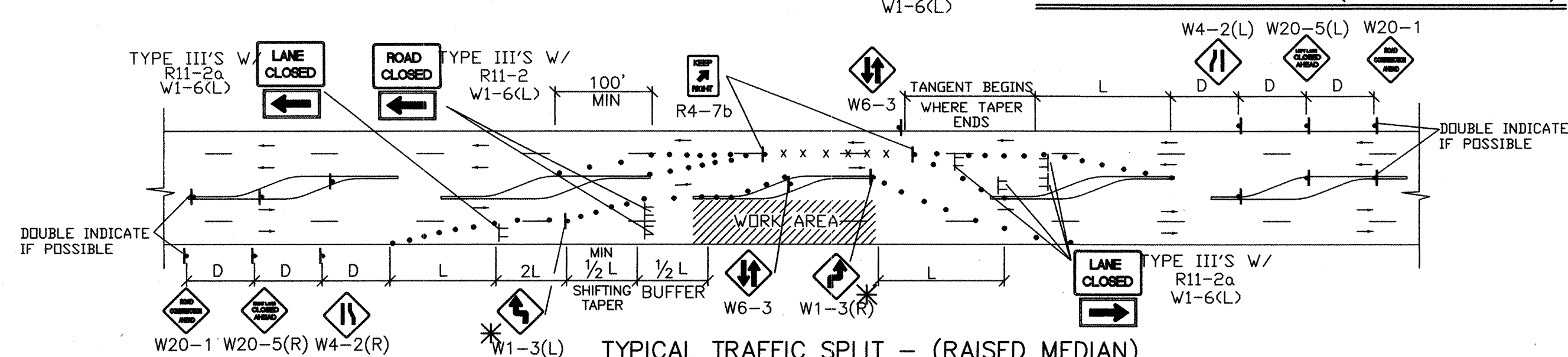
TYPICAL LEFT LANE CLOSURE



TYPICAL ONE DIRECTION DETOUR

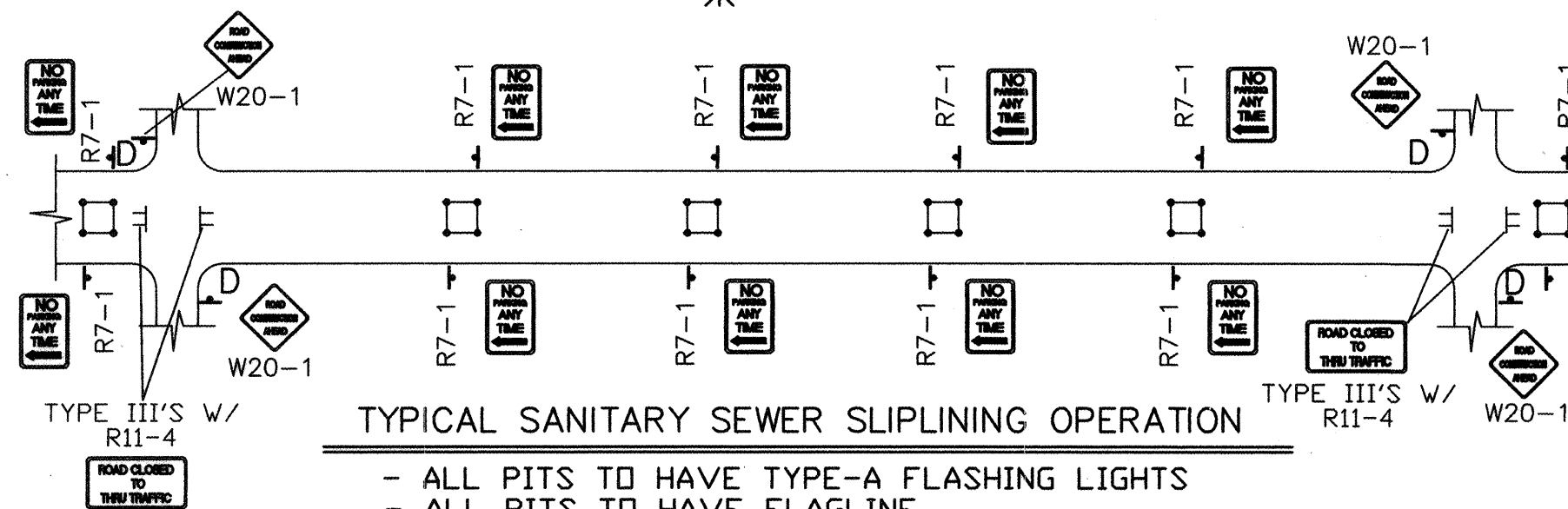


TYPICAL TRAFFIC SPLIT—(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT – (RAISED MEDIAN)

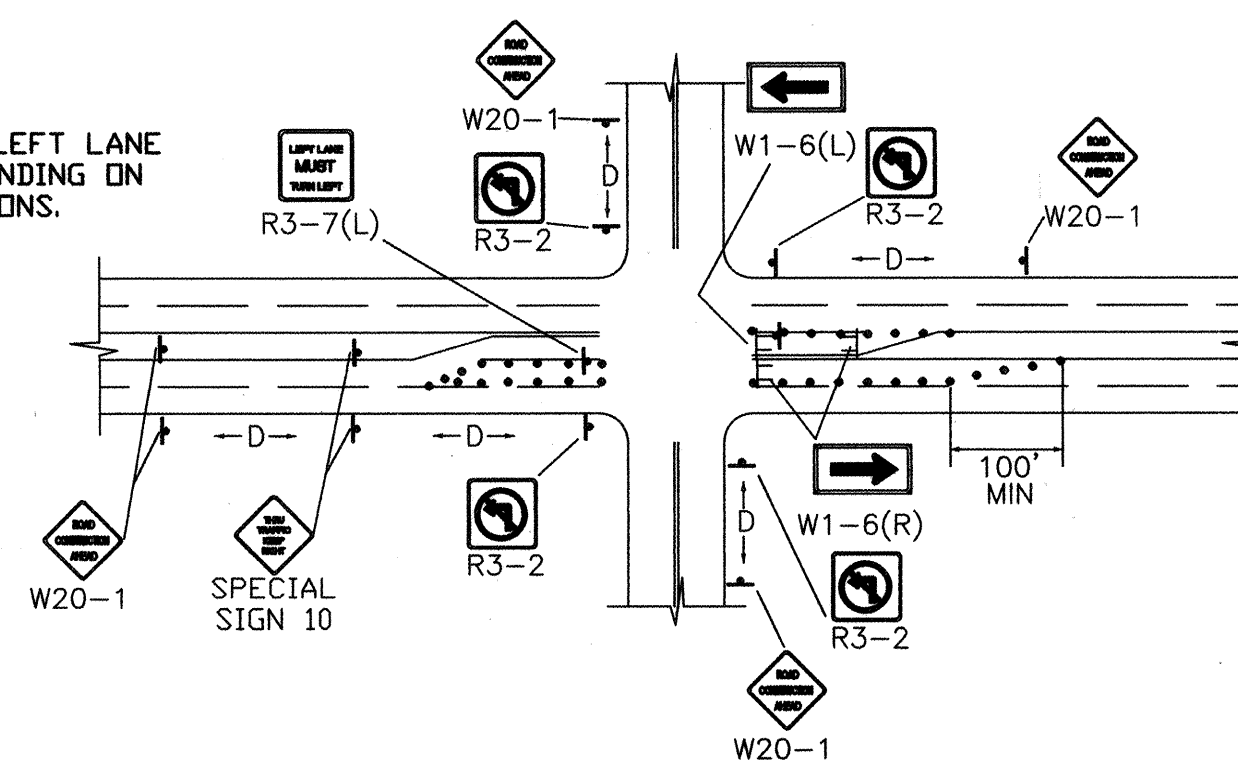
- TRAFFIC SPLIT NOTES:**
1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
 2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
 3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
 4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT.
 5. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
 6. REDUCED SPEED MAY BE CONSIDERED.
 7. * USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



TYPICAL SANITARY SEWER SLIPLINING OPERATION

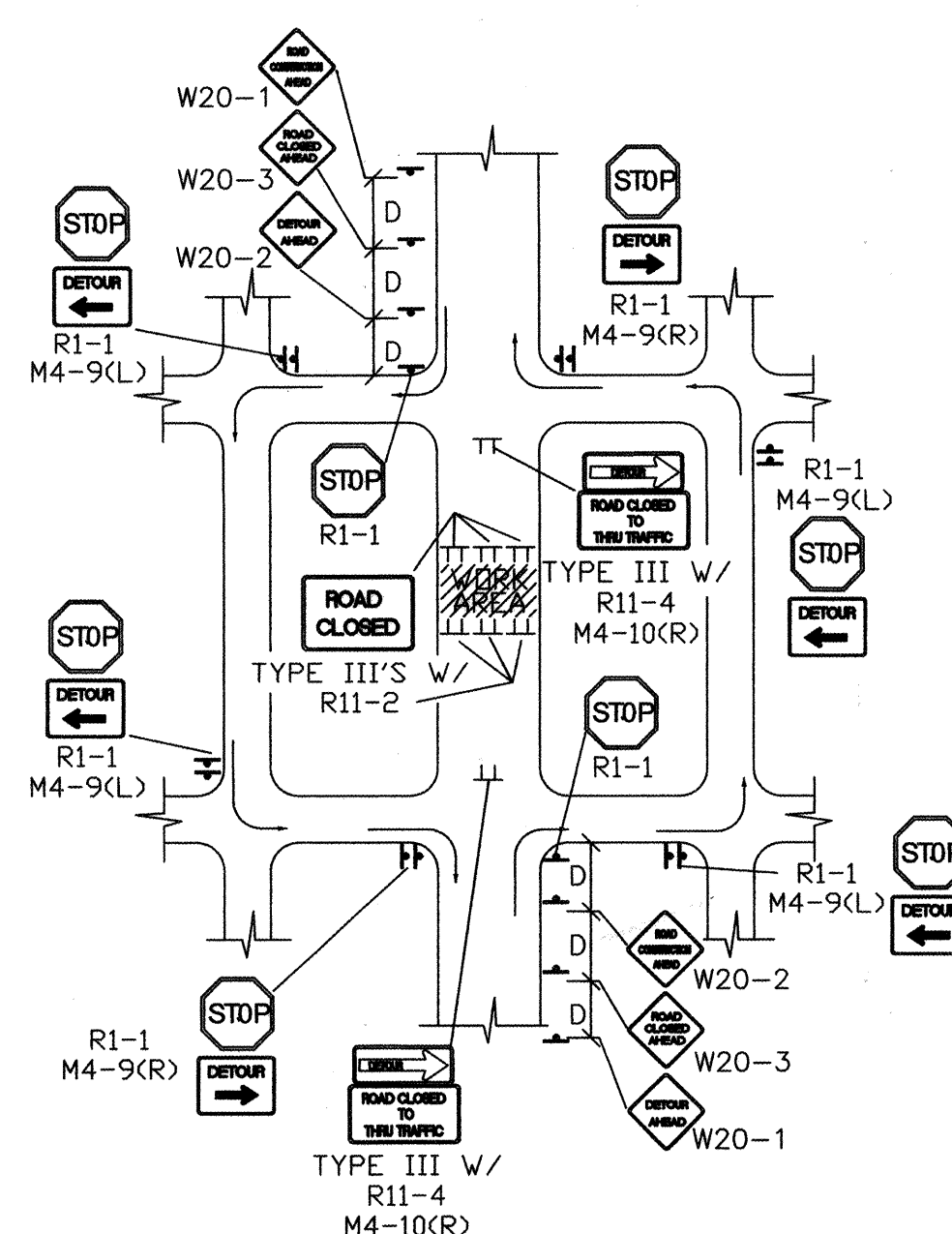
- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS
- ALL PITS TO HAVE FLAGLINE

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



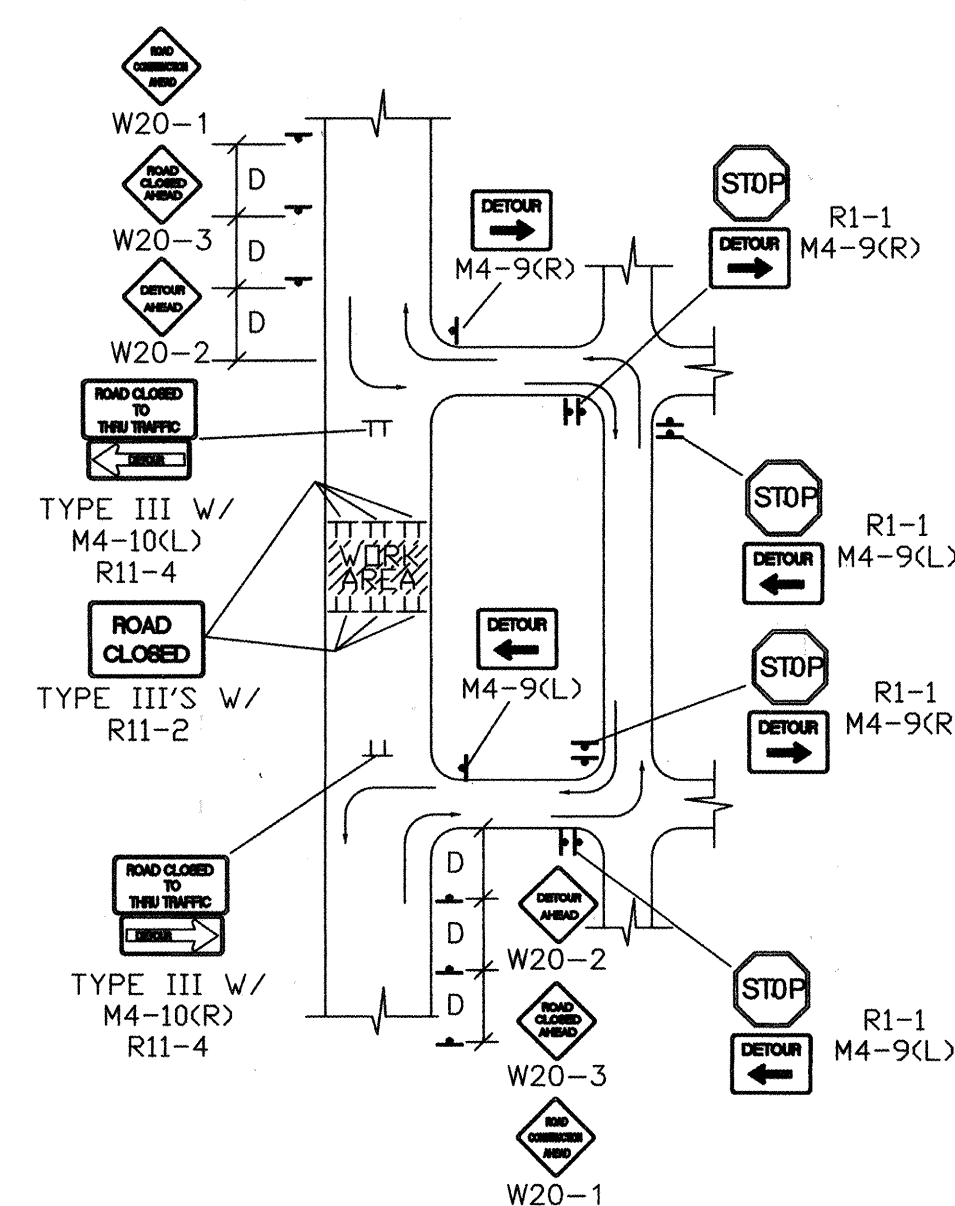
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION



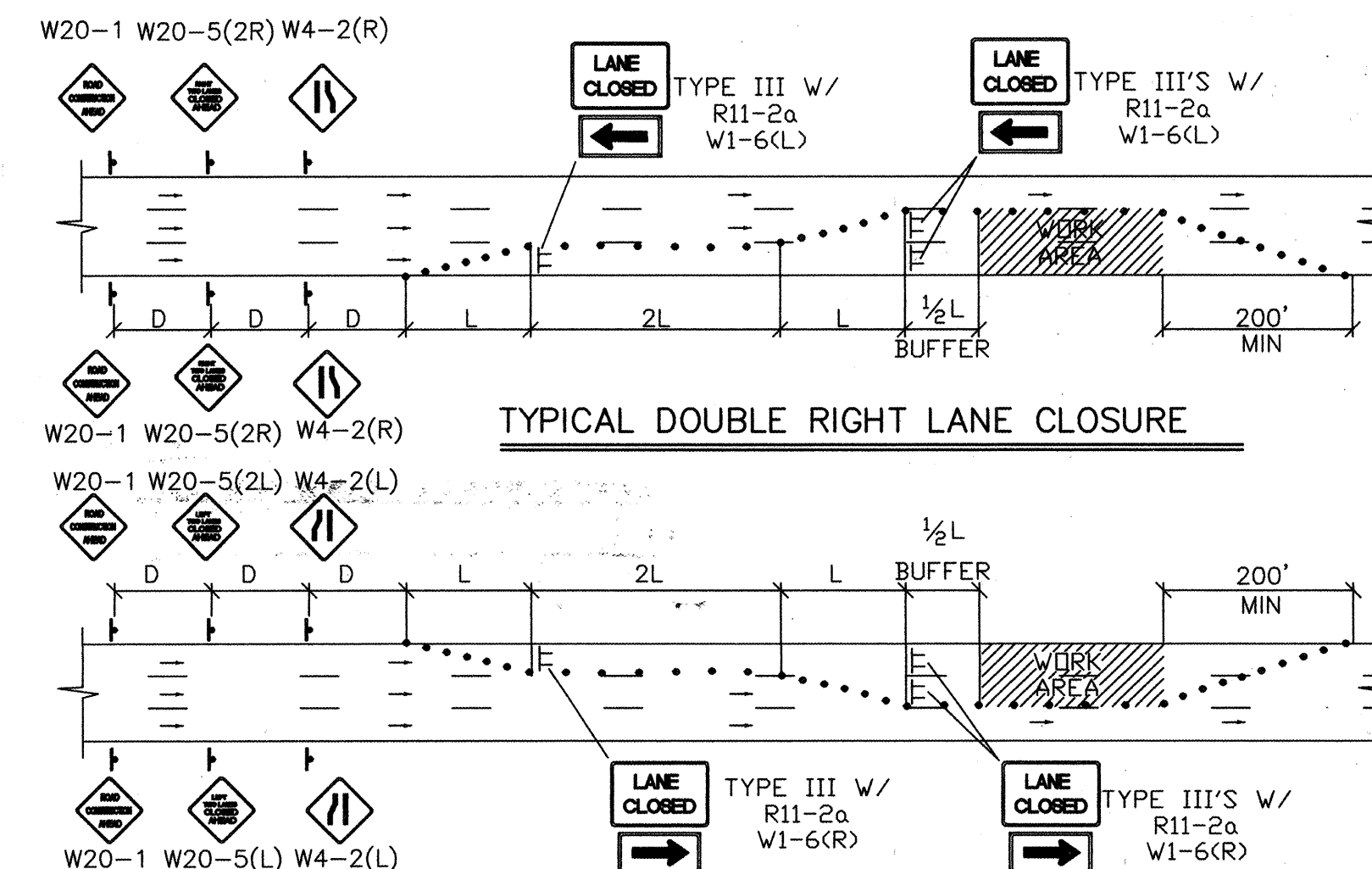
TYPICAL MID-BLOCK CLOSURE

NOTE: (R1-1) BASED ON FIELD CONDITIONS

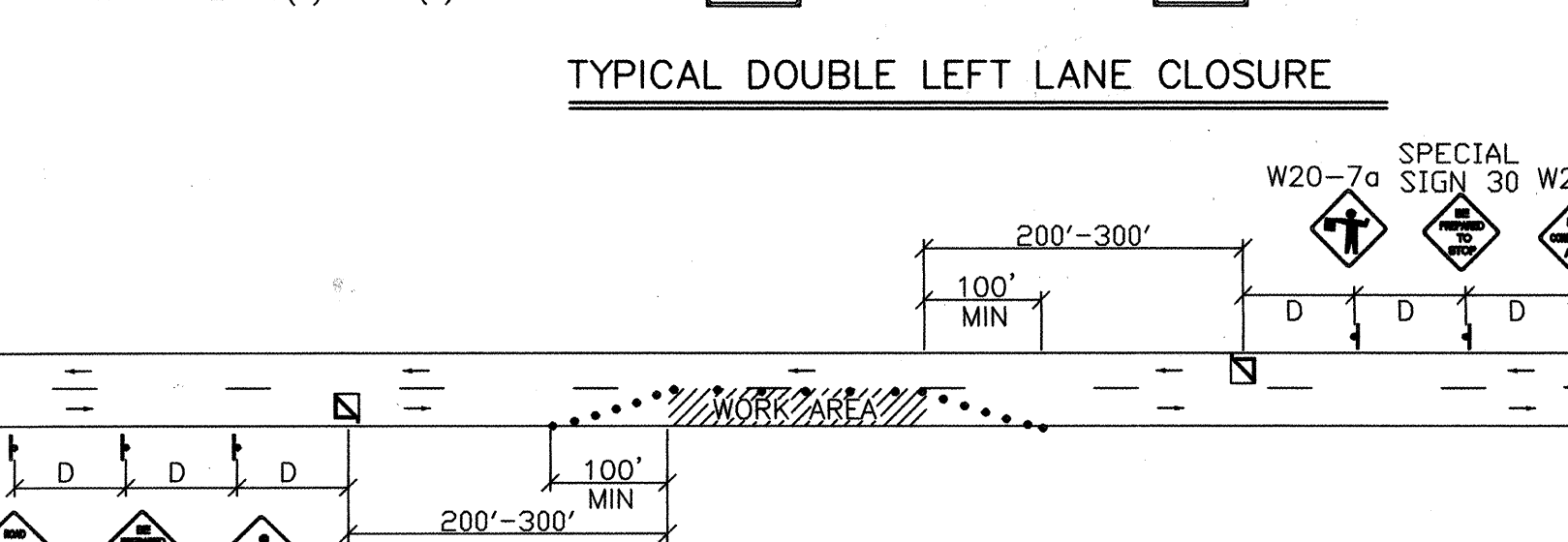


TYPICAL STREET CLOSURE

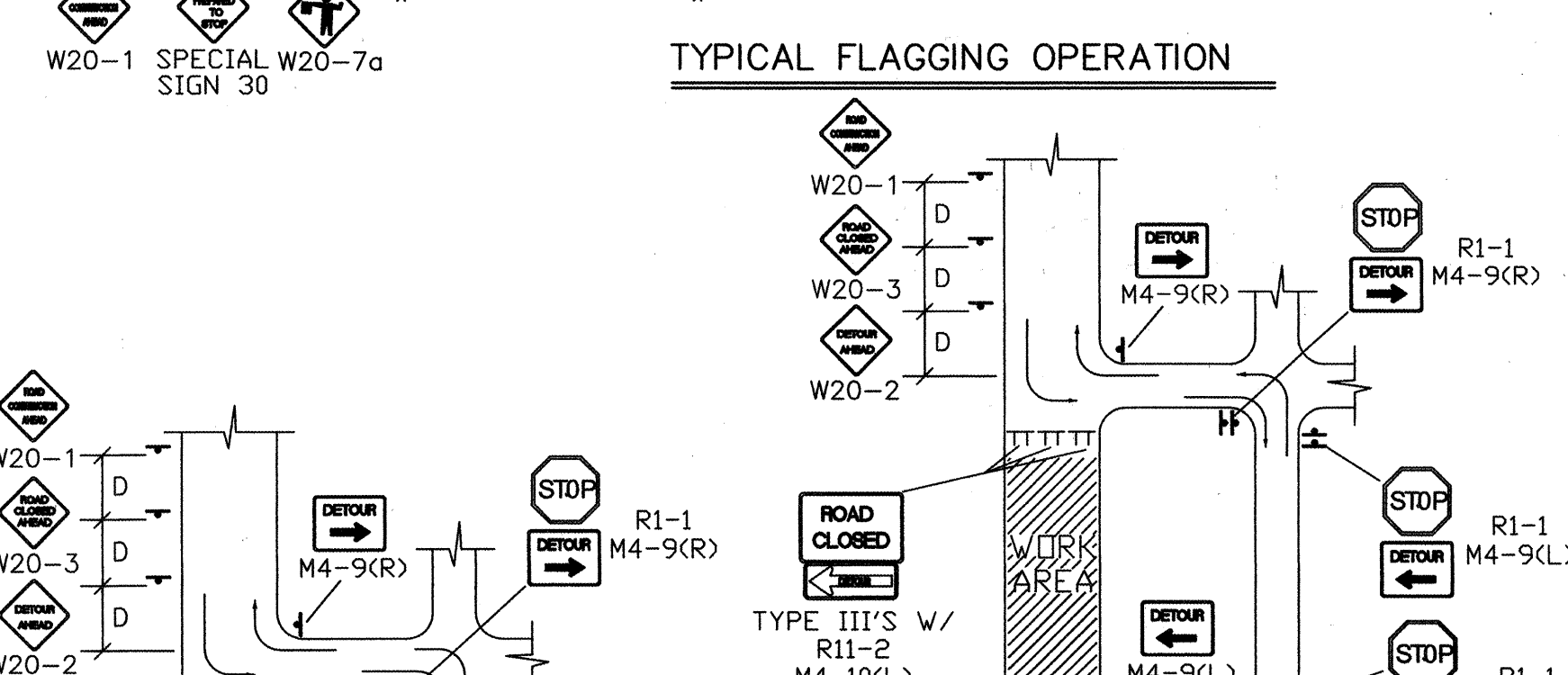
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE



TYPICAL STREET CLOSURE

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

HDR PROJECT No.: 08429-020-035

HDR
HDR Engineering, Inc.

2155 LOUISIANA BLVD., NE
SUITE 9500
ALBUQUERQUE, NM 87110
MAIN: (505) 884-6065
FAX: (505) 884-5969

BERNALILLO COUNTY
PUBLIC WORKS DIVISION

TITLE: HUNTER COURT PAVING, SEWER, & WATER PROJECT

TYPICAL TRAFFIC CONTROL AND SIGNING

Design Review Committee

City Engineer Approval

	Mo. / Day / Yr.	Mo. / Day / Yr.

date		

Design Upd		

Design		
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Last		

Sheet 00 Of 00

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