

CITY OF ALBUQUERQUE, NEW MEXICO
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

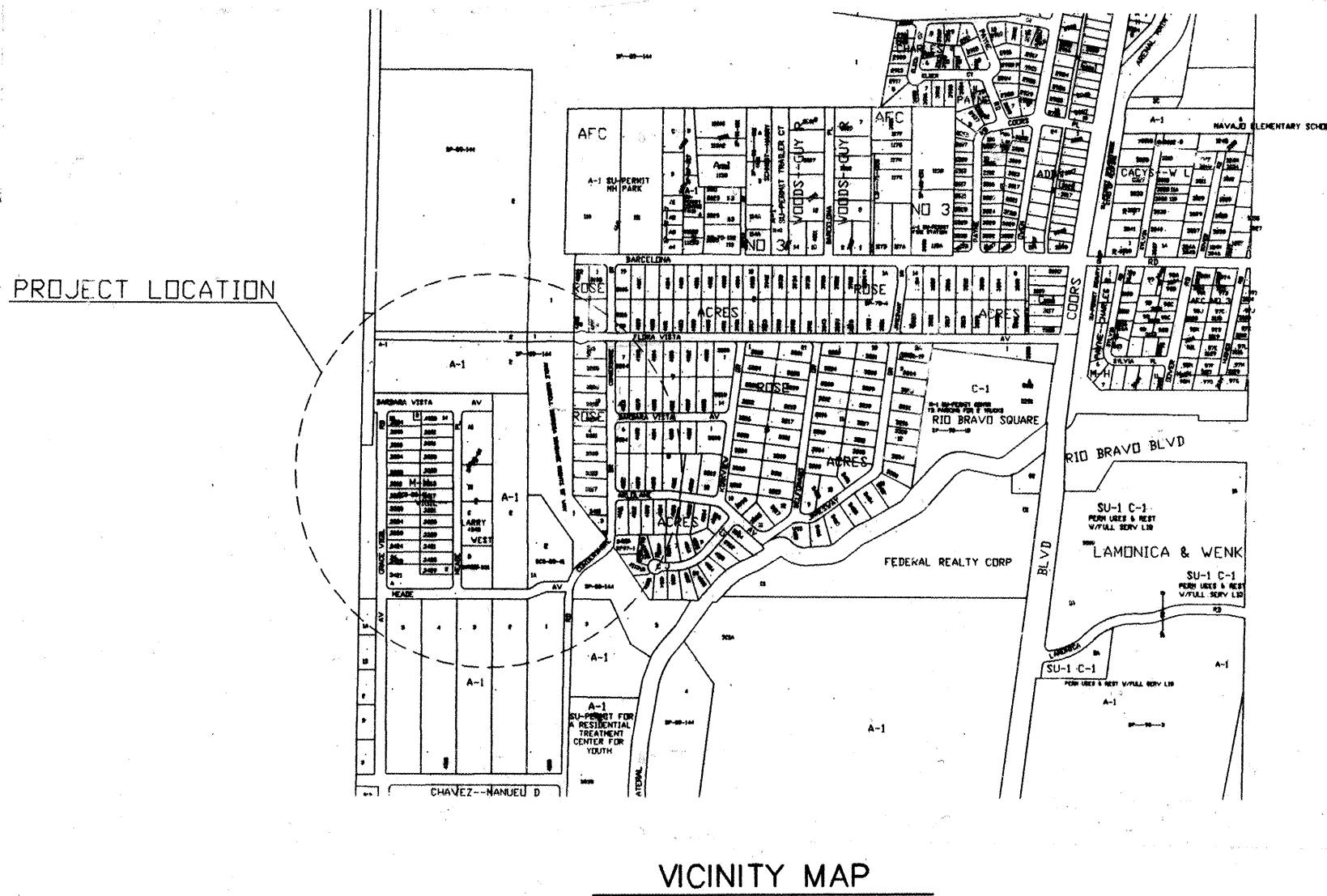
CONSTRUCTION PLANS
FOR

SOUTH VALLEY WATER AND SEWER
SYSTEM IMPROVEMENTS PROJECT
U-1 AREA, PHASE IIA

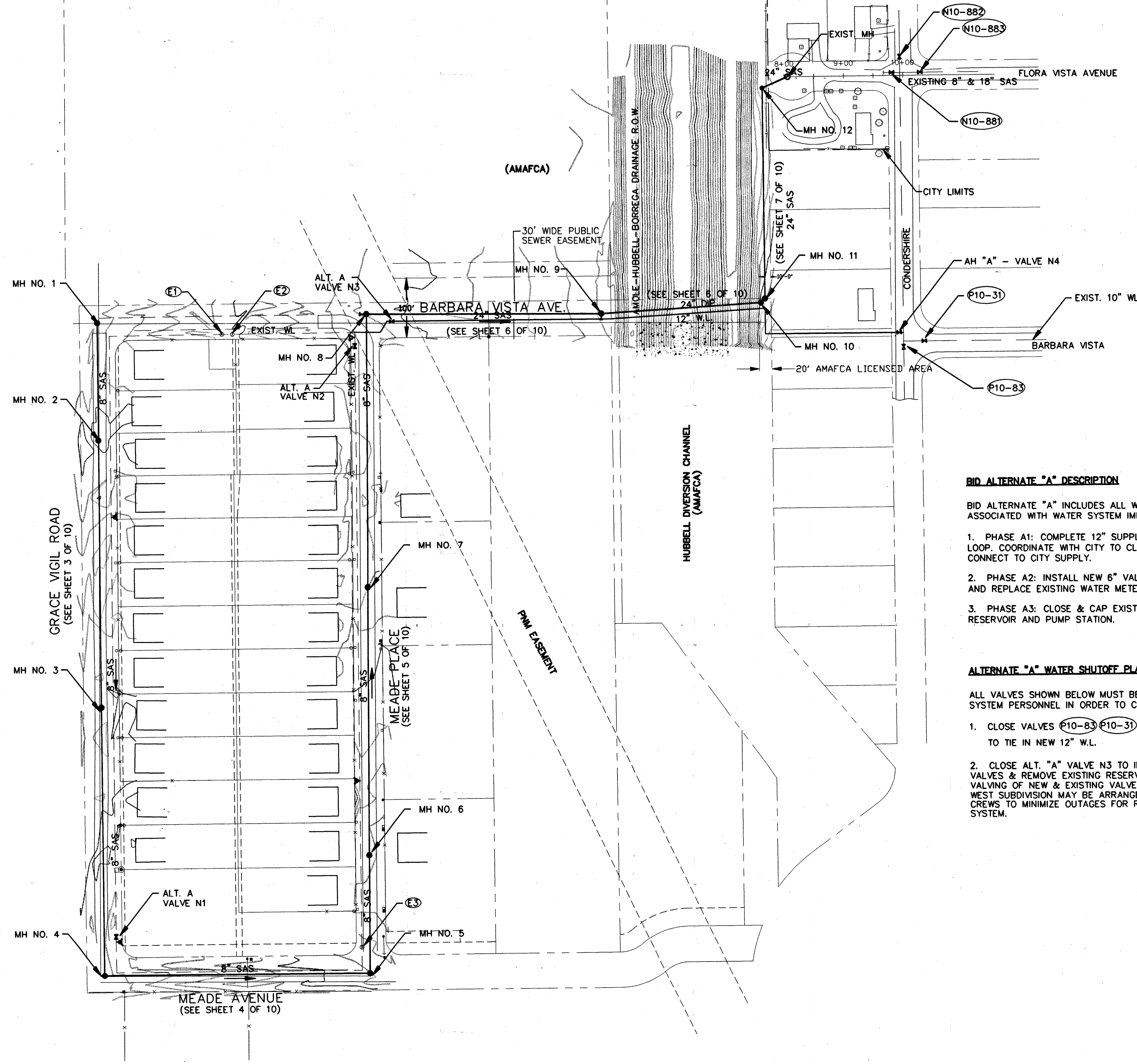
SHEET INDEX

SHEET NO.	DESCRIPTION
1	COVER AND INDEX
2	OVERALL SEWER PLAN (LARRY VIGIL SUBDIVISION)
2a	LARRY VIGIL WEST-WATER SYSTEM
3	GRACE VIGIL ROAD, S.W.
4	MEADE AVENUE, S.W.
5	MEADE PLACE, S.W.
6	BARBARA VISTA AVENUE, S.W.
7	FLORA VISTA AVENUE, S.W.
8-10	CONSTRUCTION DETAILS

City of Albuquerque



AMAFCA NOTES	GENERAL NOTES																																																																																								
1. SEE SPECIFICATIONS FOR REVEGETATION REQUIREMENTS WITHIN AMAFCA R/W. 2. NOTIFY AMAFCA NOT LESS THAN THREE (3) DAYS PRIOR TO CONSTRUCTION ON AMAFCA R/W. 3. NO CONSTRUCTION WILL BE ALLOWED AMOLE-HUBBELL CHANNEL FROM MAY 15 THROUGH OCTOBER 15. 4. WORK WITHIN AMAFCA R/W IS SUBJECT TO INSPECTION BY AMAFCA STAFF, WHO HAVE THE RIGHT TO STOP WORK IF, IN THEIR OPINION, CONSTRUCTION DOES NOT CONFORM TO PLANS/SPECIFICATIONS OR THE CHANNEL INTEGRITY IS ENDANGERED. NO ADDITIONAL COSTS OR EXTENSIONS OF TIME WILL BE ALLOWED FOR SUCH STOPPAGE OF WORK. 5. PROVIDE TO AMAFCA A SURETY BOND TO ENSURE REPAIR OF DAMAGES TO EXISTING AMAFCA FACILITIES CAUSED BY CONSTRUCTION OF WORK. IN ADDITION, NAME AMAFCA AS A CO-INSURED AS PART OF INSURANCE COVERAGE TO THE COA. 6. ALL BACKFILL WITHIN AMAFCA R/W SHALL BE COMPACTED TO MINIMUM 95% OF MAXIMUM DENSITY AT MOISTURE CONDITIONS 3% OVER OPTIMUM, IN ACCORDANCE WITH ASTM D-1557. 7. PROVIDE METALIZED DETECTABLE WARNING TAPE IN TRENCH BACKFILL IN ACCORDANCE WITH COA SPECIFICATION SECTION 121.	NOTICE TO CONTRACTORS 1. CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE 6, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS". 2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALLS SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES. 3. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY. 4. ALL EXISTING SIGNS, MARKERS, DEFLECTORS, MAIL BOXES, ETC. WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RESET BY THE CONTRACTOR. 5. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. 6. THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADING ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS, COUNTY OF BERNALILLO COUNTY TRAFFIC ENGINEER FOR WORK IN COUNTY R/W, (848-1550). ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKINGS BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET. 7. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR (24) CONSTRUCTION. 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF WATER SHUTOFF AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION, 857-8200, TO INITIATE IMPLEMENTATION OF THE NON-PRESSURIZED CONNECTION PLAN. IN ORDER TO COMPLETE THIS CONNECTION, THE FOLLOWING VALVES MUST BE CLOSED BY WATER SYSTEMS PERSONNEL. 9. MAXIMUM OPEN TRENCH = 200 FEET.																																																																																								
GENERAL NOTES (CONT.) 10. EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29 CFR PART 1926.650, SUBPART P. 11. ALL COMPACTION OF TRENCHES WITHIN ROADWAYS SHALL BE 95% OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D 1557. 12. PAVEMENT CUT AND PATCH SHALL BE IN ACCORDANCE WITH BERNALILLO COUNTY STANDARD DRAWING 2465.																																																																																									
WILSON & COMPANY 4775 INDIAN SCHOOL ROAD N.E. SUITE 200 ALBUQUERQUE, NEW MEXICO 87110 (505) 254-4000																																																																																									
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BID ALTERNATE "A" DESCRIPTION

BID ALTERNATE "A" INCLUDES ALL WORK ASSOCIATED WITH WATER SYSTEM IMPROVEMENTS:

1. PHASE A1: COMPLETE 12" SUPPLY LINE & TIE TO 6" EXISTING LOOP. COORDINATE WITH CITY TO CLOSE OFF EXISTING WELL AND CONNECT TO CITY SUPPLY.
2. PHASE A2: INSTALL NEW 6" VALVES & FIRE HYDRANTS, AND REPLACE EXISTING WATER METERS.
3. PHASE A3: CLOSE & CAP EXISTING WELL. REMOVE EXISTING RESERVOIR AND PUMP STATION.

ALTERNATE "A" WATER SHUTOFF PLAN

ALL VALVES SHOWN BELOW MUST BE CLOSED BY WATER SYSTEM PERSONNEL IN ORDER TO COMPLETE THE WORK:

1. CLOSE VALVES P10-83 P10-31 N10-88 N10-882 N10-883 TO TIE IN NEW 12" W.L.
2. CLOSE ALT. "A" VALVE N3 TO INSTALL NEW HYDRANTS, VALVES & REMOVE EXISTING RESERVOIR/PS. ALTERNATE VALVING OF NEW & EXISTING VALVES IN LARRY VIGIL/WEST SUBDIVISION MAY BE ARRANGED WITH WATER SHUTOFF CREWS TO MINIMIZE OUTAGES FOR REHAB WORK ON THAT SYSTEM.

PLAN
SCALE: 1"=100'

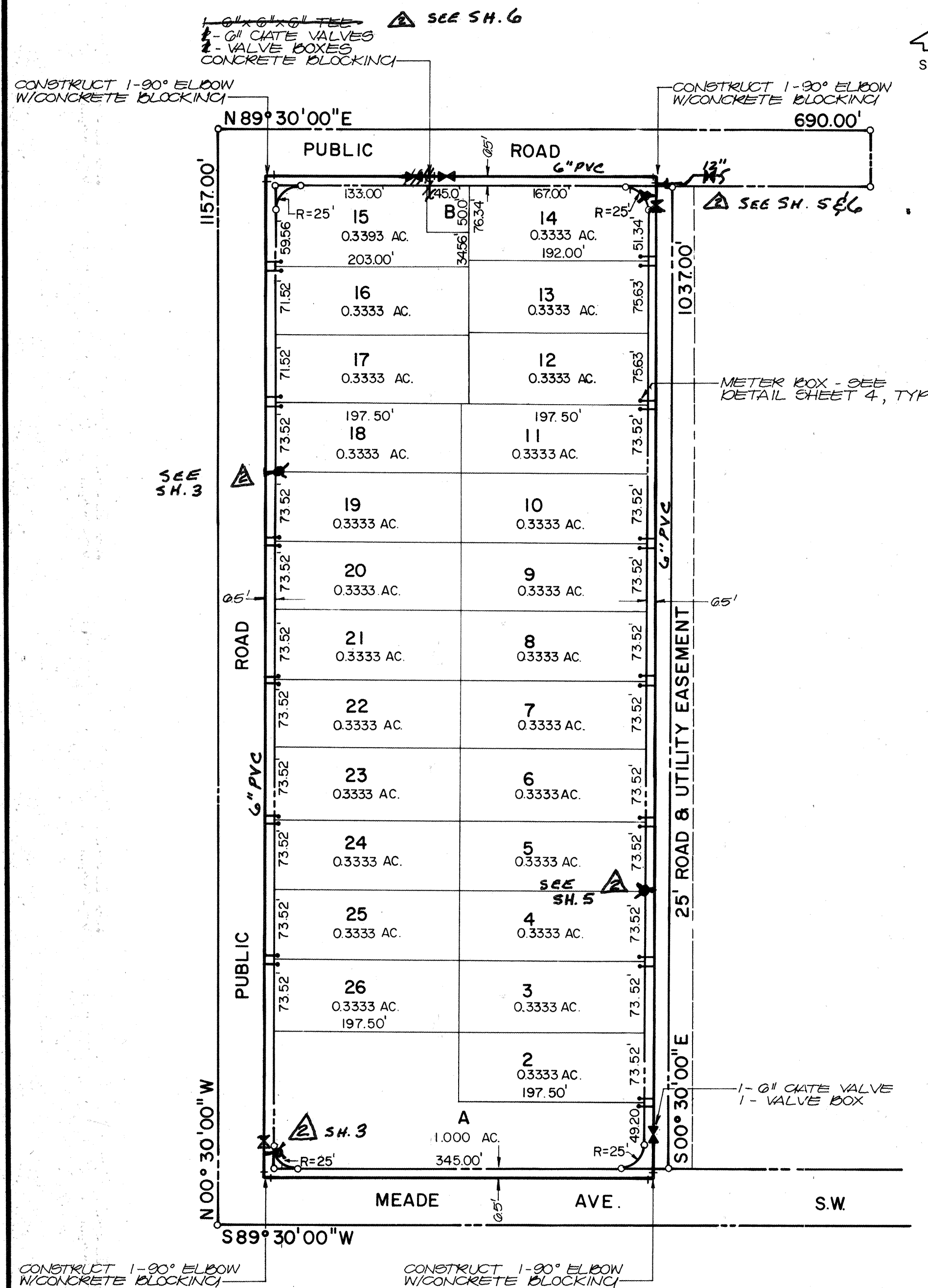


LEGEND

NEW	EXIST.	C & G
— SAS —	— SAS —	SANITARY SEWER
— W —	— W —	WATER LINE
— G —	— G —	GAS LINE
— SD —	— SD —	STORM DRAIN
— UT —	— UT —	UNDERGROUND TELEPHONE LINE
— UE —	— UE —	UNDERGROUND ELECTRICAL LINE
— CATV —	— CATV —	UNDERGROUND CABLE TV LINE
— TC —	— TC —	TRAFFIC SIGNAL CONDUIT
— TR —	— TR —	TELEPHONE BOX
— SD —	— SD —	STORM DRAIN MANHOLE
— MH —	— MH —	SANITARY SEWER MANHOLE
— WV —	— WV —	WATER VALVE
— WM —	— WM —	WATER METER
— GV —	— GV —	GAS VALVE
— GM —	— GM —	GAS METER
— FP —	— FP —	FIRE HYDRANT
— PP —	— PP —	POWER POLE
— SP —	— SP —	SIGNAL PEDESTAL
— PB —	— PB —	PULL BOX
— LP —	— LP —	LIGHT POLE
— SI —	— SI —	STORM INLET
— TS —	— TS —	TREE/SHRUB
— SE —	— SE —	SPOT ELEVATION

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	JR HALE CONST. CO., INC.	STD. XXX	DATE	NO.	BY	NO.	BY
STAMPED BY	DEAN'S LYNN	XXXXXXXXXXXXXXXXXXXX	DATE	DATE	DATE	DATE	DATE
FIELD ACCEPTANCE BY	P. GALEGO	XXXXXXXXXXXXXXXXXXXX	DATE	DATE	DATE	DATE	DATE
FIELD CORRECTION BY	COA	XXXXXXXXXXXXXXXXXXXX	DATE	DATE	DATE	DATE	DATE
RECORDED BY	WILSON & COMPANY	XXXXXXXXXXXXXXXXXXXX	DATE	DATE	DATE	DATE	DATE
MICRO-FILM INFORMATION		ELEVATION = XXXX.XXX FT.		REVISIONS		REVISIONS	
				NO.		DATE	
				WILSON & COMPANY, ENGINEERS & ARCHITECTS		DESIGNED BY	
						DRAWN BY	
						CHECKED BY	

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
OVERALL WATER & SEWER PLAN SOUTH VALLEY WATER AND SEWER IMPROVEMENT PROJECT (U-1 AREA, PHASE IIA)			
Design Review Committee	City Engineer	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED	APPROVED		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
City Project No.	Zone Map No.	Sheet	Of
4515.96	P-10-Z	2	10



UTILITY PLAN

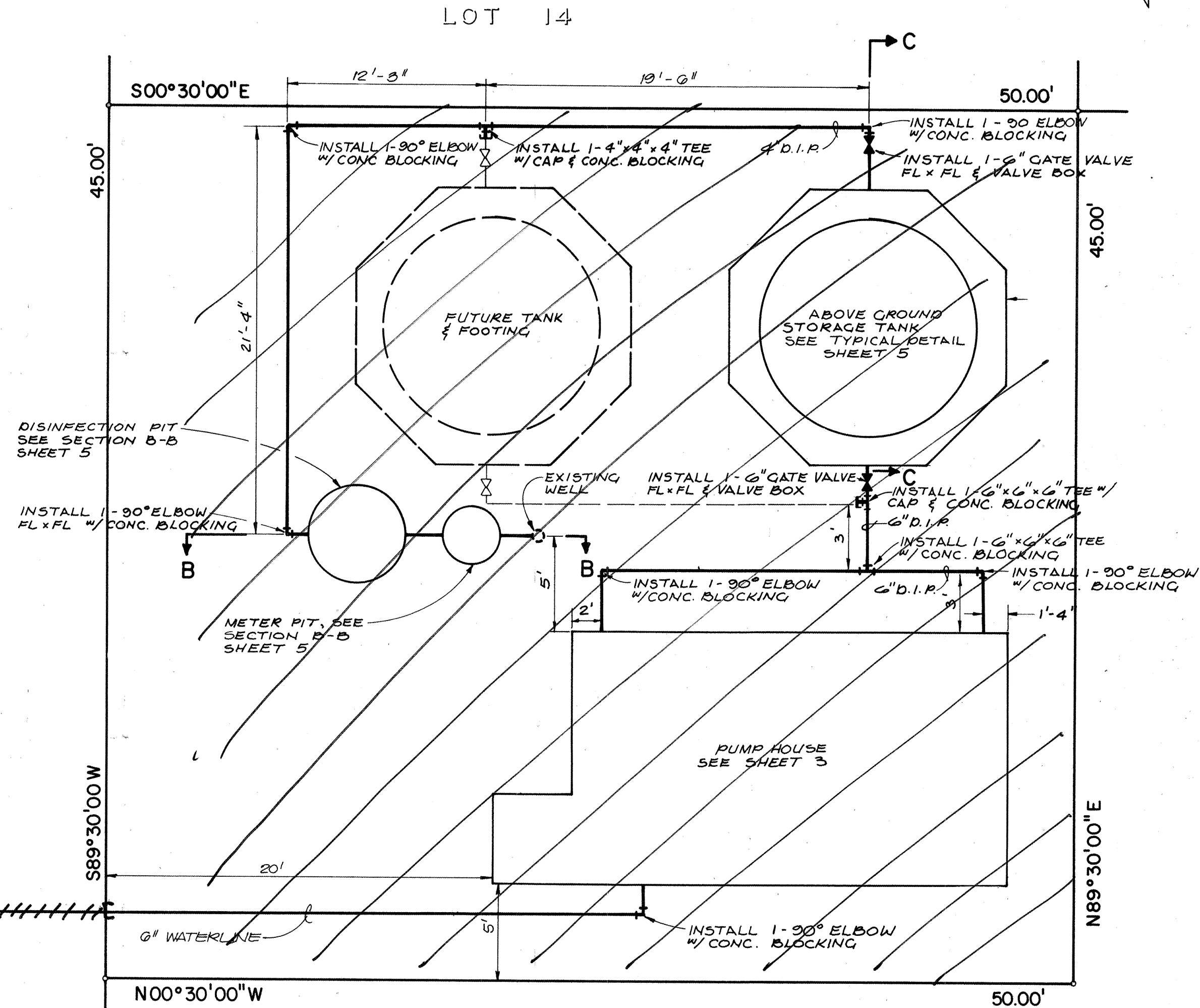
CONSTRUCTION NOTES:

1. WATER MAIN SHALL BE P.V.C. AWWA C-100 PIPE.
2. ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STD. DRW. NO. W-20-1.
2. ALL VALVES SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STD. DWGS. NO. W-5-2 & W-8-1.

TRANSFER NOTES

1. SYSTEM SHOWN ABOVE WAS INSTALLED AS PRIVATE IN 1985
2. FIRE HYDRANTS, VALVES AND PIPING CONNECTIONS/CHANGES WERE MADE UNDER C.O.A. PROJECT #4515.96. SEE SHEETS 2-6 FOR DETAILS.
3. SERVICE LINES WERE CHANGED TO 3/4" COPPER AND METER BOXES CHANGED TO C.O.A. STD., DUAL SERVICES.
4. NEW METERS INSTALLED AT EACH RESIDENCE. METER NUMBERS ARE SHOWN ON EACH LOT. METERS FOR TWO VACANT LOTS WERE DELIVERED TO C.O.A.
5. SERVICE TO EXISTING CUSTOMERS WAS TRANSFERRED FROM NM WATERWORKS WELL TO C.O.A. SUPPLY ON 1-26-99.

A.R.O.



WELL SITE PLAN

OWNERSHIP OF WELL SITE
REMAINED WITH NEW MEXICO
WATERWORKS, INC.

A.R.O.



811 DALLAS, N.E. • ALBUQUERQUE • NEW MEXICO • 87110
ENGINEERS

NO.	DATE	BY	REVISIONS
1	8/6/85	TM	Revised location.
2	1/26/99	AW	SYSTEM TIED TO C.O.A. SUPPLY.

DESIGNED BY:	L.P.U.
DRAWN BY:	L.S.N.
APPROVED:	T.T.M.

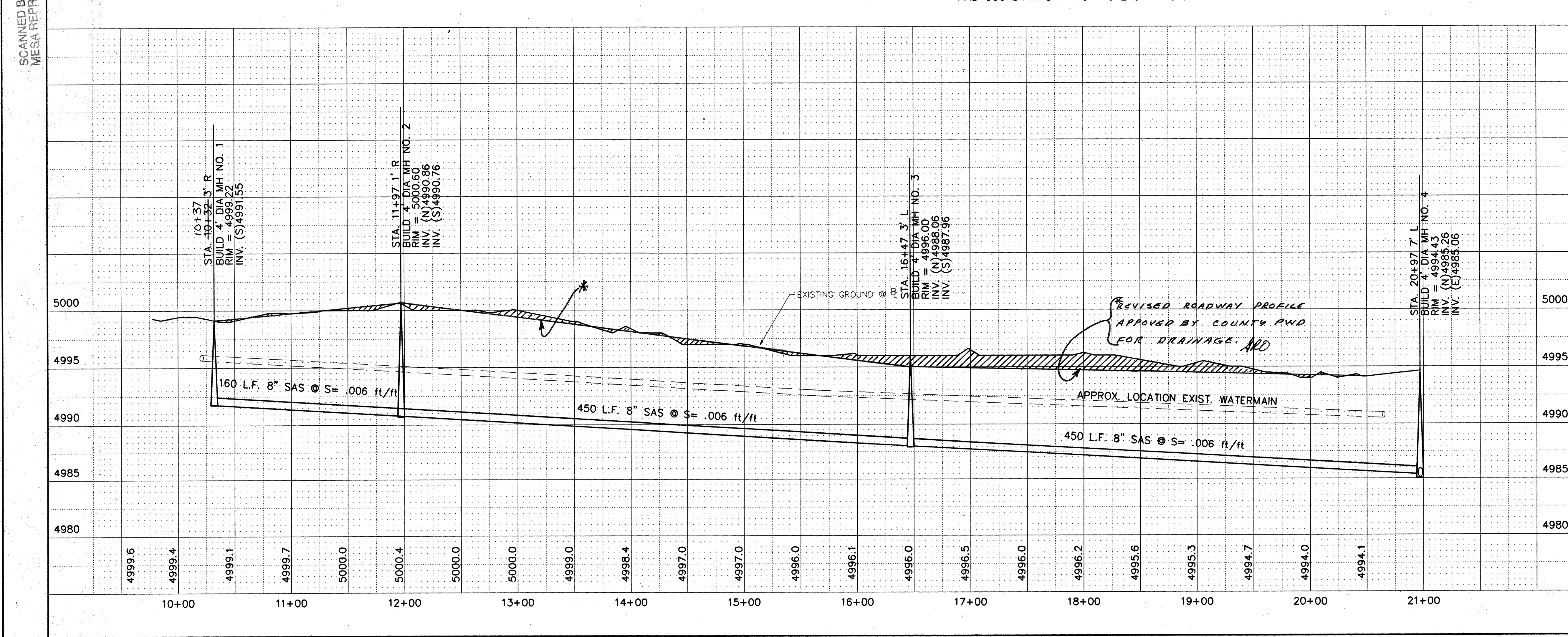
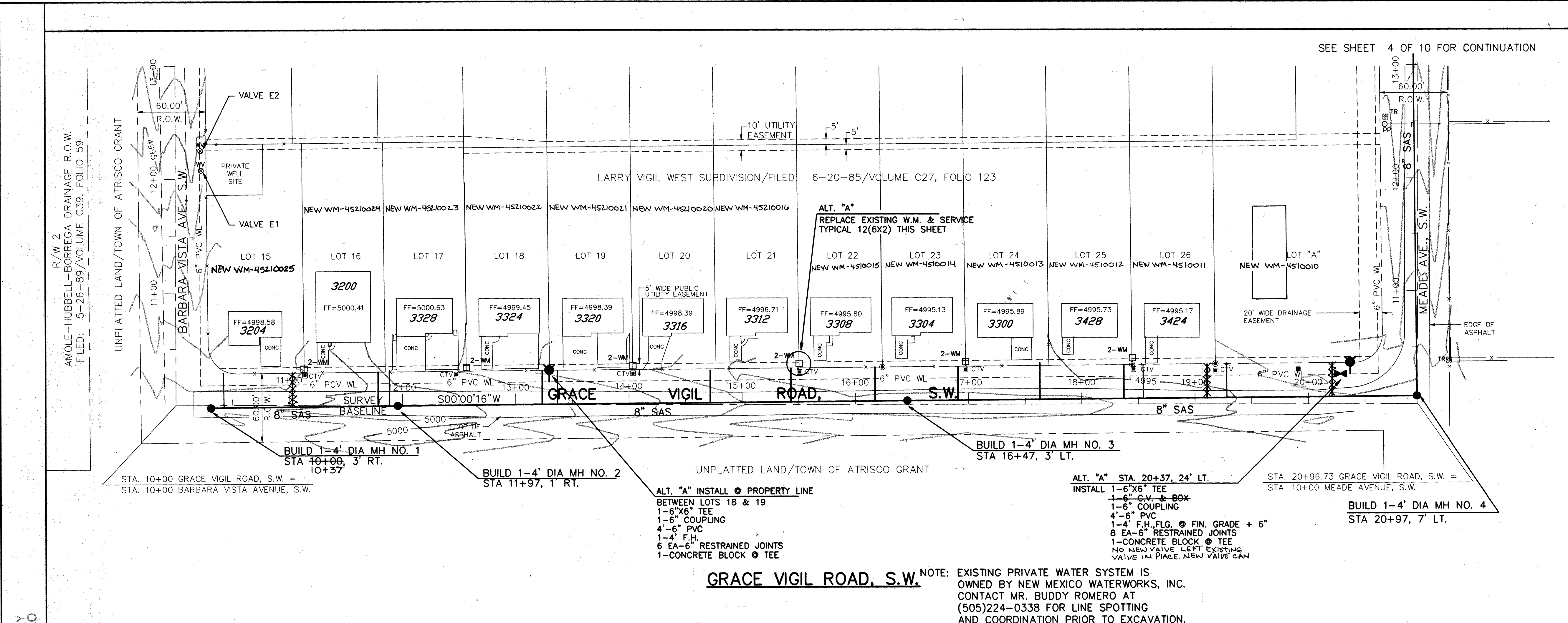
JOB NO.	40732
DATE	5/84

UTILITY SITE PLANS
LARRY VIGIL WEST

City No. 4515.96

FILE NO.

SHEET 2a OF 510



PLAN
SCALE: 1"=50'

PROFILE
SCALE: 1"=5' HORIZ.
1"=5' VERT.

LEGEND

NEW EXIST.
SAS SAS SANITARY SEWER
W W WATER LINE
G G GAS LINE
SD SD STORM DRAIN
UT UNDERGROUND TELEPHONE LINE
UE UNDERGROUND ELECTRICAL LINE
CATV UNDERGROUND CABLE TV LINE
TR TRAFFIC SIGNAL CONDUIT
TR TELEPHONE BOX
SD STORM DRAIN MANHOLE
MH MH SANITARY SEWER MANHOLE
WV WATER VALVE
WM WATER METER
GV GAS VALVE
GM GAS METER
FH FIRE HYDRANT
PP POWER POLE
SP SIGNAL PEDESTAL
PB PULL BOX
LP LIGHT POLE
TS TREE/SHRUB
SE SPOT ELEVATION

SEWER SERVICES

LOT	STATION	SIZE	LENGTH	INV. @ PL
15	10+42.2 11+03.1	4"	30'	4993.6
16	11+78.1	4"	30'	4993.4
17	11+89.1	4"	30'	4993.6
18	13+24.1	4"	30'	4992.4
19	13+37.1	4"	30'	4992.4
20	14+72.1	4"	30'	4992.4
21	15+43.1	4"	30'	4991.7
22	16+15.1	4"	30'	4990.8
23	16+94.1	4"	30'	4990.1
24	17+67.1	4"	30'	4988.6
25	18+40.1	4"	30'	4989.7
26	19+54.1	4"	30'	4990.2
A	20+27.1	4"	30'	4989.0

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

GRACE VIGIL ROAD, S.W.
SOUTH VALLEY WATER AND SEWER
SYSTEM IMPROVEMENT PROJECT(U-1 AREA, PHASE IIA)

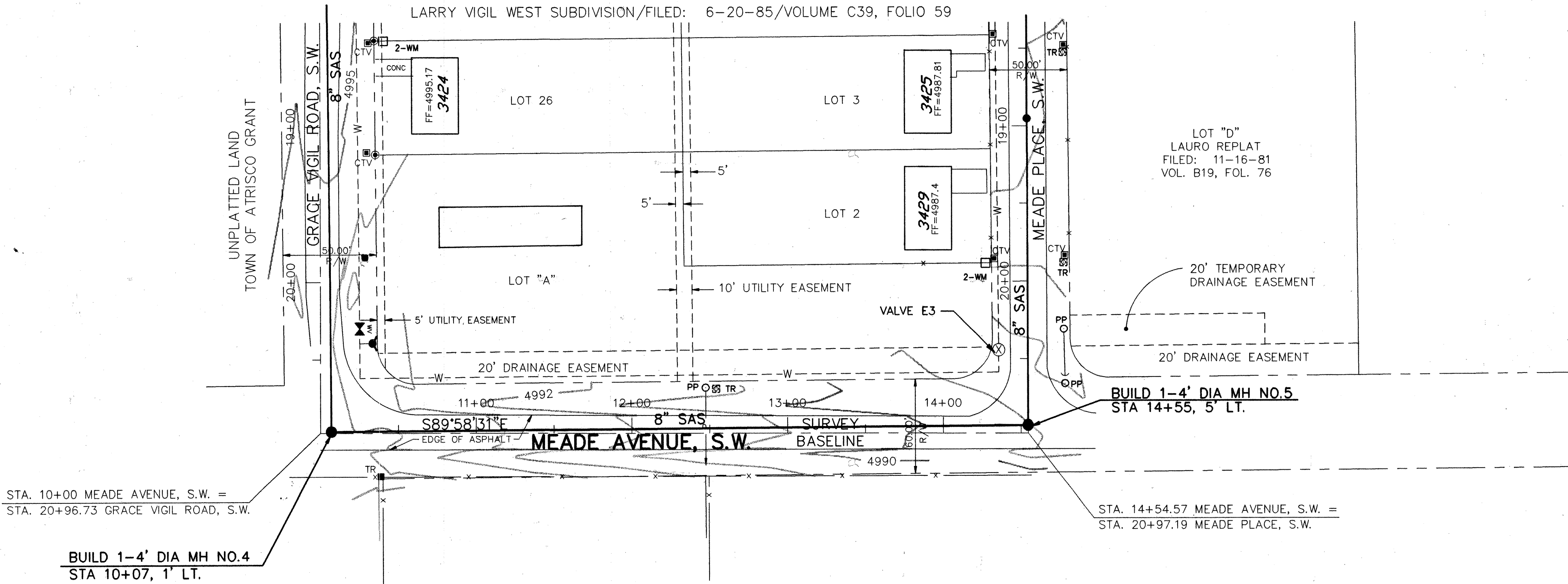
Design Review Committee City Engineer Approved
APPROVE
City Engineer
City Project No. 4515.96 Zone Map No. P-10 Sheet 3 of 10

SCANNED BY
MESA REPRO

SEE SHEET 3 OF 10 FOR CONTINUATION

SEE SHEET 5 OF 10 FOR CONTINUATION

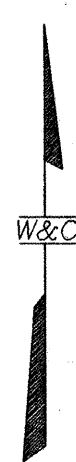
LARRY VIGIL WEST SUBDIVISION/FILED: 6-20-85/VOLUME C39, FOLIO 59



MEADE AVENUE, S.W.

NOTE: EXISTING PRIVATE WATER SYSTEM IS OWNED BY NEW MEXICO WATERWORKS, INC. CONTACT MR. BUDDY ROMERO AT (505)224-0338 FOR LINE SPOTTING AND COORDINATION PRIOR TO EXCAVATION.

PLAN
SCALE: 1"=50'
PROFILE
SCALE: 1"=5' HORIZ.
1"=5' VERT.



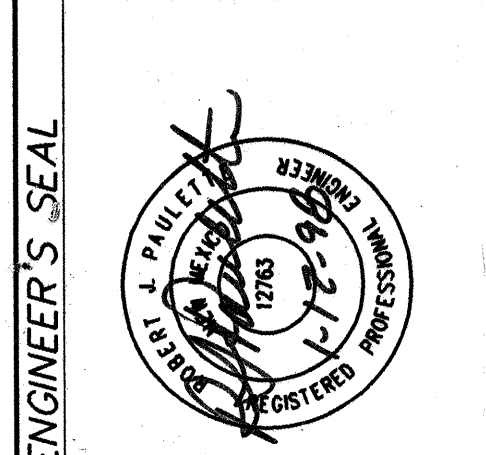
LEGEND

- NEW EXIST.
- SAS — SAS — SANITARY SEWER
 - W — W — WATER LINE
 - G — G — GAS LINE
 - SD — SD — STORM DRAIN
 - UT — UT — UNDERGROUND TELEPHONE LINE
 - UE — UE — UNDERGROUND ELECTRICAL LINE
 - CATV — CATV — UNDERGROUND CABLE TV LINE
 - TC — TC — TRAFFIC SIGNAL CONDUIT
 - SS TR — SS TR — TELEPHONE BOX
 - SD — SD — STORM DRAIN MANHOLE
 - MH — MH — SANITARY SEWER MANHOLE

AS-BUILT INFORMATION	
CONTRACTOR	SR. HALE CONSULTING CO., INC.
DATE	5/98
DATE	1/99
DATE	5/99
MICRO-FILM INFORMATION	
RECORDED BY	NO.

BENCH MARKS	
BENCHMARK USED IS A STANDARD NMSSC BRASS CAP	
STAMPED "STA NM-45-8" LOCATED AT THE INTERSECTION	
OF S. COORS RD. & RIO BRAVO BLVD., S.W.	
ELEV. = 4939.015	

SURVEY INFORMATION	
DATE	2/94
BY	SUT. GNT. JES
NO.	1

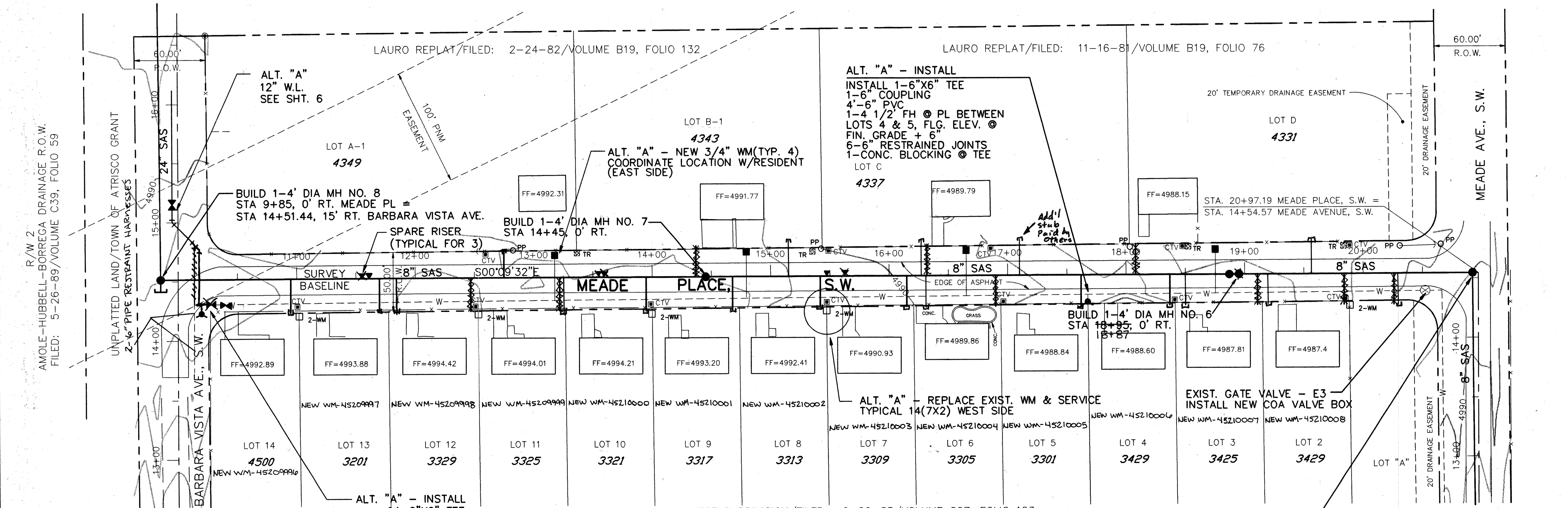


SEWER SERVICES				
LOT	STATION	SIZE	LENGTH	INV. @ PL

ENGINEER'S SEAL	
DATE	1/12/98
REMARKS	ADDED WATERLINE & DTLS. RJP
NO.	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE

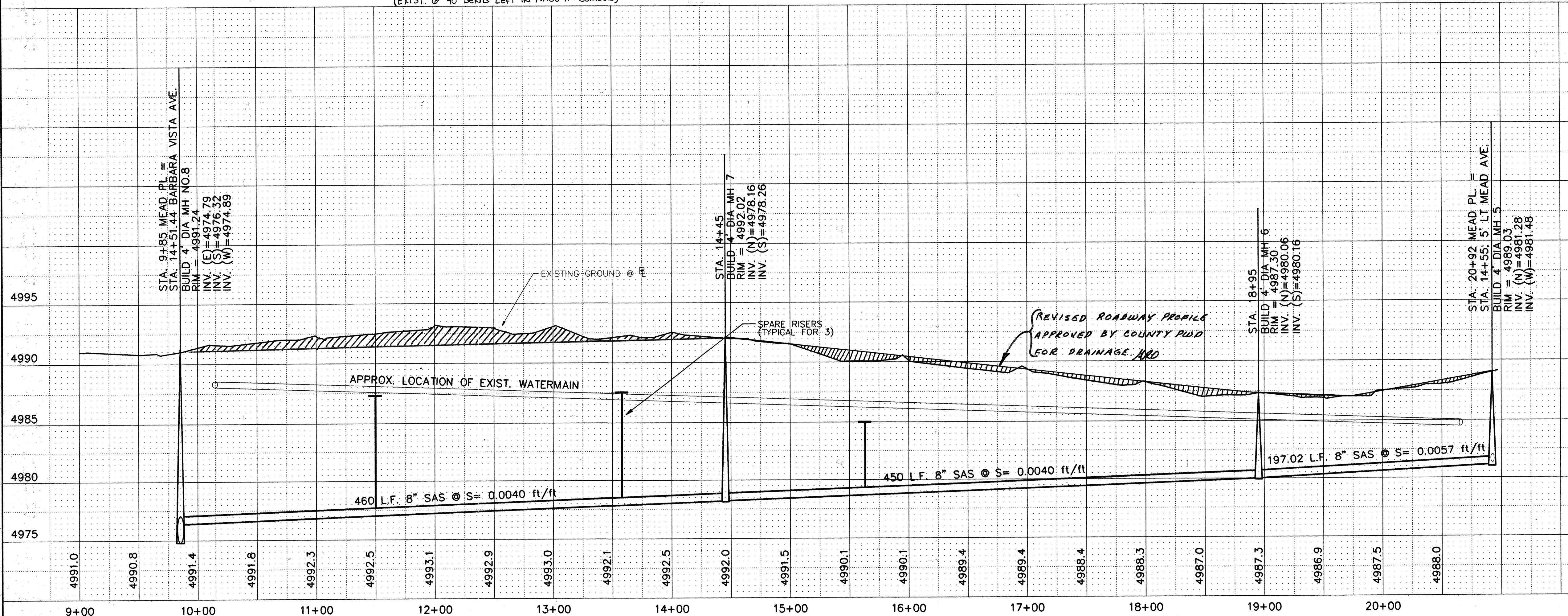
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
MEADE AVENUE, S.W. SOUTH VALLEY WATER AND SEWER SYSTEM IMPROVEMENT PROJECT(U-1 AREA, PHASE IIA)	
DESIGN REVIEW COMMITTEE	CITY ENGINEER
City Project No.	Zone Map No.
4515.96	P-10
Sheet	Of
4	10

SEE SHEET 6 OF 10 FOR CONTINUATION

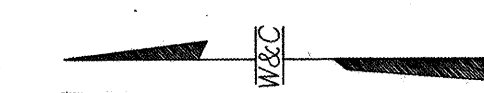


NOTE: EXISTING PRIVATE WATER SYSTEM IS OWNED BY NEW MEXICO WATERWORKS, INC. CONTACT MR. BUDDY ROMERO AT (505)224-0338 FOR LINE SPOTTING AND COORDINATION PRIOR TO EXCAVATION.

MEADE PLACE, S.W.



PLAN
SCALE: 1"=50'
PROFILE
SCALE: 1"=50' HORIZ.
1"=5' VERT.



LEGEND

- NEW EXIST.
- SAS SANITARY SEWER
- W WATER LINE
- G GAS LINE
- UT UNDERGROUND TELEPHONE LINE
- UE UNDERGROUND ELECTRICAL LINE
- CATV UNDERGROUND CABLE TV LINE
- MH MANHOLE
- WV WATER VALVE
- WM WATER METER
- GM GAS METER
- PP POWER POLE
- Gate Butterfly
- Fire Hydrant

SEWER SERVICES

LOT	STATION	SIZE	LENGTH	INV. @ PL.
2	14+19	4"	30'	4983.4
3	18+50	4"	30'	4982.8
4	18+37	4"	30'	4983.0
5	17+64	4"	30'	4983.8
6	16+99	4"	30'	4985.9
7	16+15	4"	30'	4986.9
8	15+39	4"	30'	4986.4
9	14+73	4"	30'	4986.2
10	13+95	4"	30'	4987.7
11	13+25	4"	30'	4989.6
12	11+84	4"	30'	4990.4
13	11+72	4"	30'	4989.9
14	10+97	4"	30'	4988.9
A	20+29	4"	30'	4982.4
D	19+56	4"	30'	4983.2
C	16+27	4"	30'	4984.8
B-1	15+15	4"	30'	4986.8
A-1	12+75	4"	30'	4987.3
C	17+10	4"	30'	4984.8

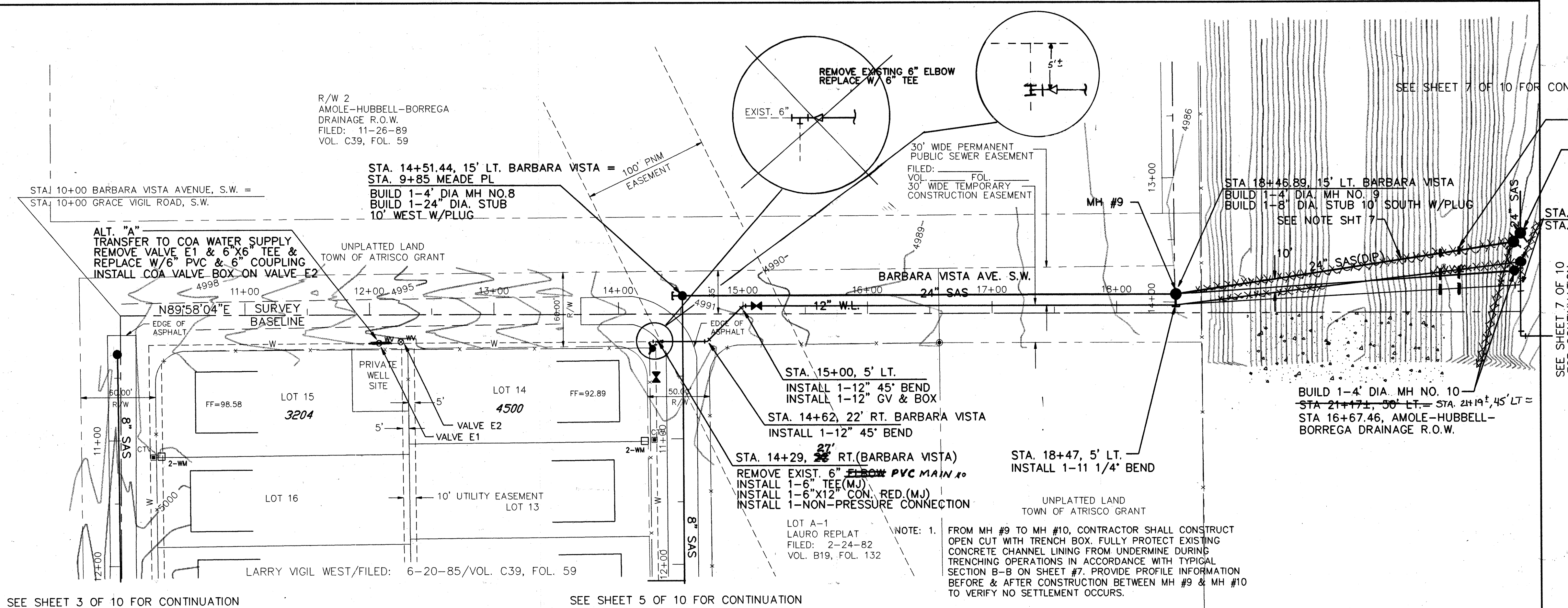
STATION	TOP OF RISER
11+61	4987.50
13+55	4987.50
15+47	4985.00

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

MEADE PLACE, S.W.
SOUTH VALLEY WATER AND SEWER
SYSTEM IMPROVEMENT PROJECT(U-1 AREA, PHASE IIA)

Design Review Committee City Engineer Approval
APPROVED
City Project No. 4515.96 Zone Map No. P-10
Last Design Update

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY	
CONTRACTOR	JR HALE CONSTRUCTION, INC.	BENCHMARK USED	IS A STANDARD NMMSH BRASS CAP	DATE	2/94	NO.	BY	DATE	NO.	DATE	DATE	DATE	DATE	DATE	DATE
WROTE BY	DEANUS LYNN	STAMPED	"STA NM-45-8" LOCATED AT THE INTERSECTION OF S. COORS RD. & RIO BRAVO BLVD., S.W.	DATE	5/98										
INSPECTED BY	P. GREGG	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98
VERIFIED BY	COA	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98
DESIGNED BY	WILSON & COMPANY	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98
RECORDED BY	NO.	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98	DATE	5/98



PLAN
SCALE: 1"=50'
PROFILE
SCALE: 1"=5' HORIZ.
1"=5' VERT.

SEE SHEET 7 OF 10 FOR CONTINUATION

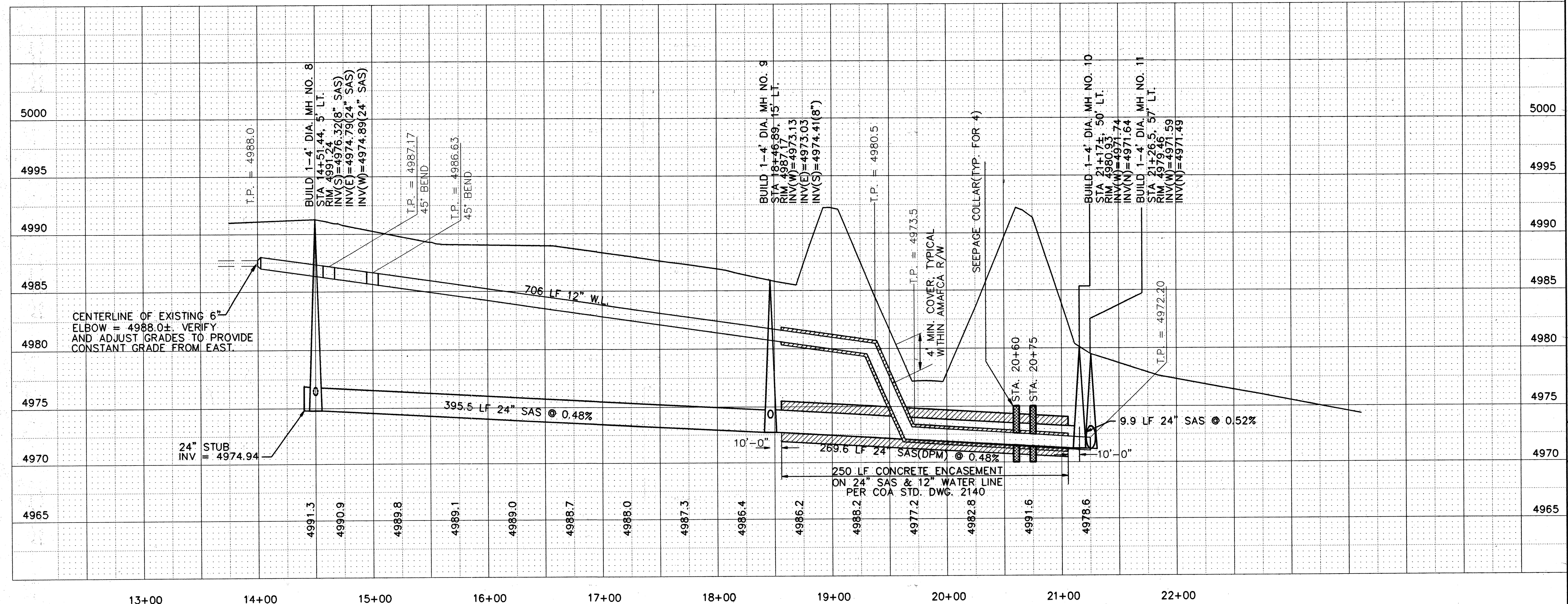
SEE SHEET 7 OF 10 FOR CONTINUATION

SEE SHEET 7 OF 10 FOR CONTINUATION

LEGEND

NEW	EXIST.	
— SAS —	— SAS —	SANITARY SEWER
— W —	— W —	WATER LINE
— G —	— G —	GAS LINE
— SD —	— SD —	STORM DRAIN
— UT —		UNDERGROUND TELEPHONE LINE
— UE —		UNDERGROUND ELECTRICAL LINE
— CATV —		UNDERGROUND CABLE TV LINE
— TC —		TRAFFIC SIGNAL CONDUIT
— TR —		TELEPHONE BOX
— SD —	— SD —	STORM DRAIN MANHOLE
— MH —	— MH —	SANITARY SEWER MANHOLE

BARBARA VISTA AVENUE, S.W.



SEWER SERVICES

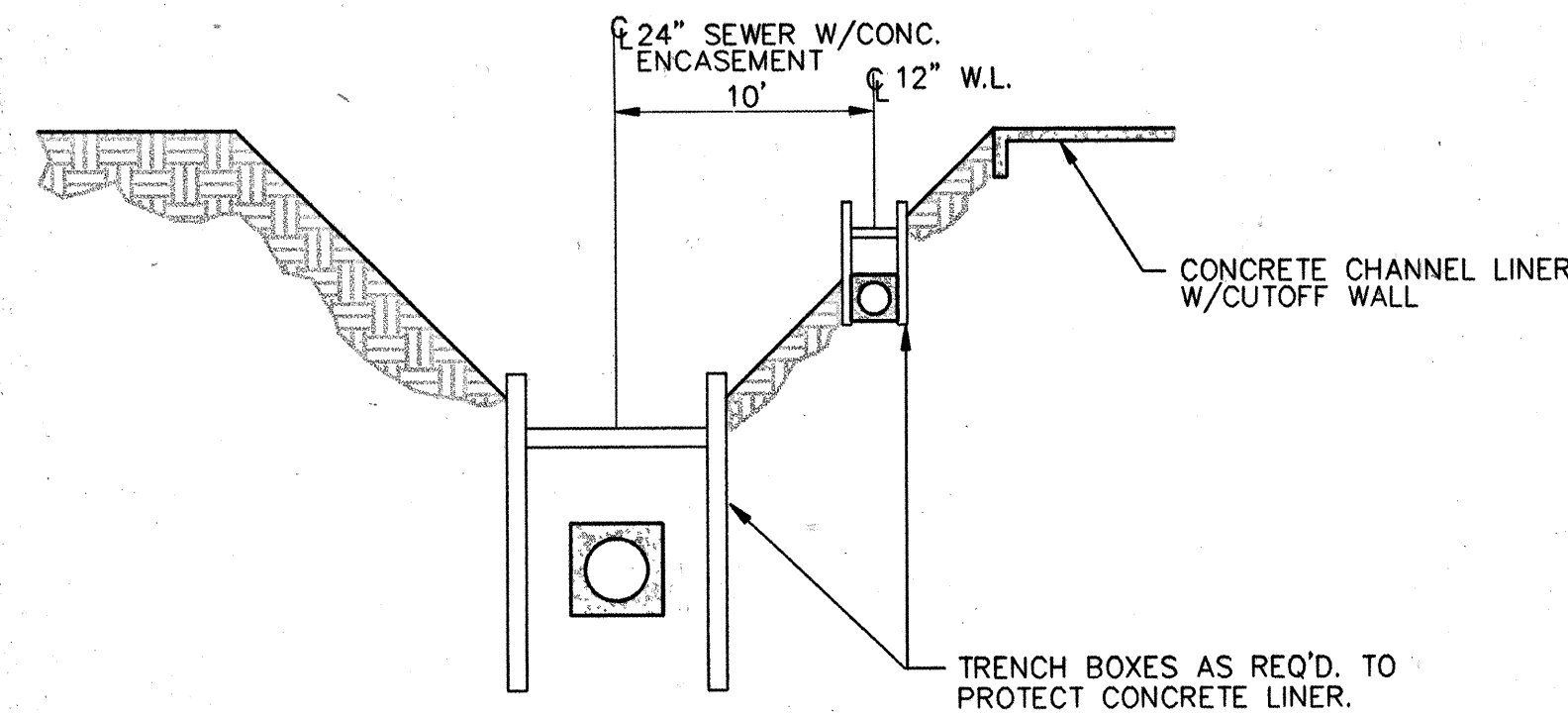
LOT	STATION	SIZE	LENGTH	INV. @ PL
UN PLAT	8" STUB	4"	10' SW	4981.50
FUT.	MH #9	8"	10' S	4974.49

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP**

**BARBARA VISTA AVENUE, S.W.
SOUTH VALLEY WATER AND SEWER
SYSTEM IMPROVEMENT PROJECT(U-1 AREA, PHASE IIA)**

DESIGNED BY	CHECKED BY	DATE
WILSON & COMPANY, ENGINEERS & ARCHITECTS	DLS	MAY, 1997

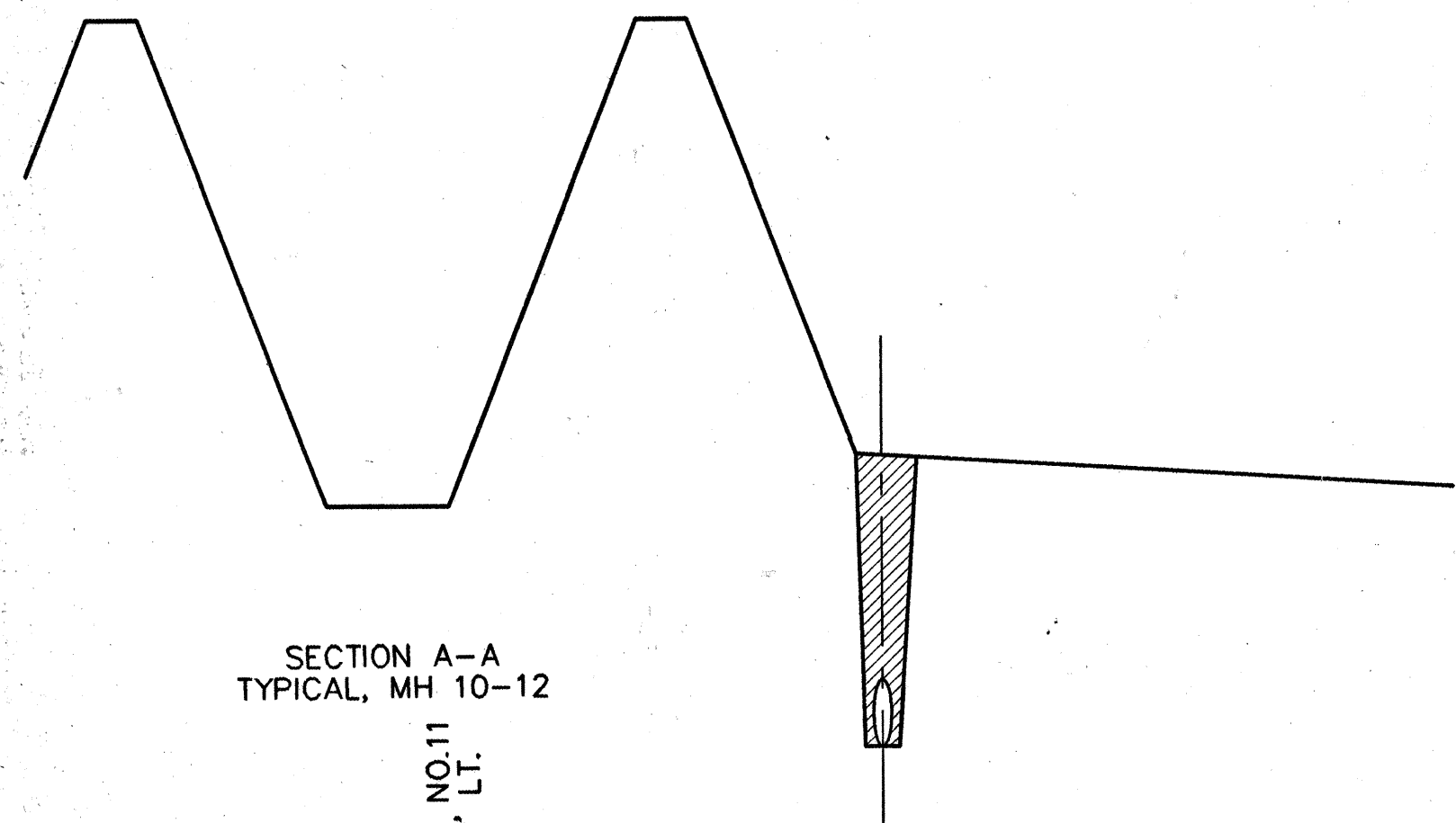
City Project No. **4515.96** Zone Map No. **P-10** Sheet **6** Of **10**



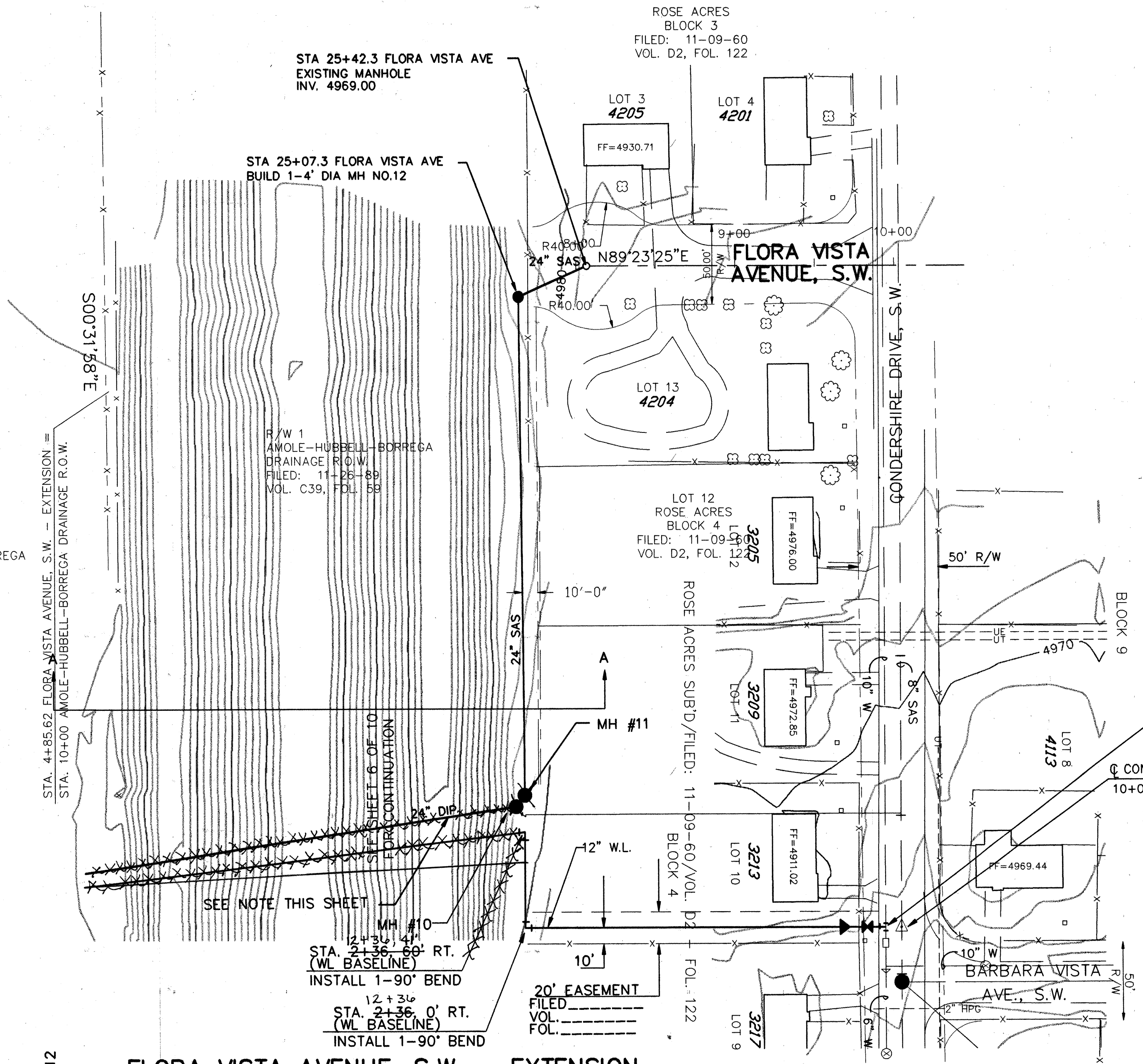
SECTION B-B
TYPICAL, MH 9-10

- NOTE: 1. FROM MH #9 TO MH #10, CONTRACTOR SHALL CONSTRUCT OPEN CUT WITH TRENCH BOX. FULLY PROTECT EXISTING CONCRETE CHANNEL LINING FROM UNDERMINE DURING TRENCHING OPERATIONS IN ACCORDANCE WITH TYPICAL SECTION SHOWN IN SECTION B-B. PROVIDE PROFILE INFORMATION BEFORE & AFTER CONSTRUCTION BETWEEN MH #9 & MH #10 TO VERIFY NO SETTLEMENT OCCURS.
2. FROM MH #10 TO MH #12, CONSTRUCT OPEN CUT WITH TRENCH BOX. FULLY PROTECT AMAFCA EMBANKMENT TO WEST OF TRENCHING OPERATIONS, AS SHOWN IN SECTION A-A

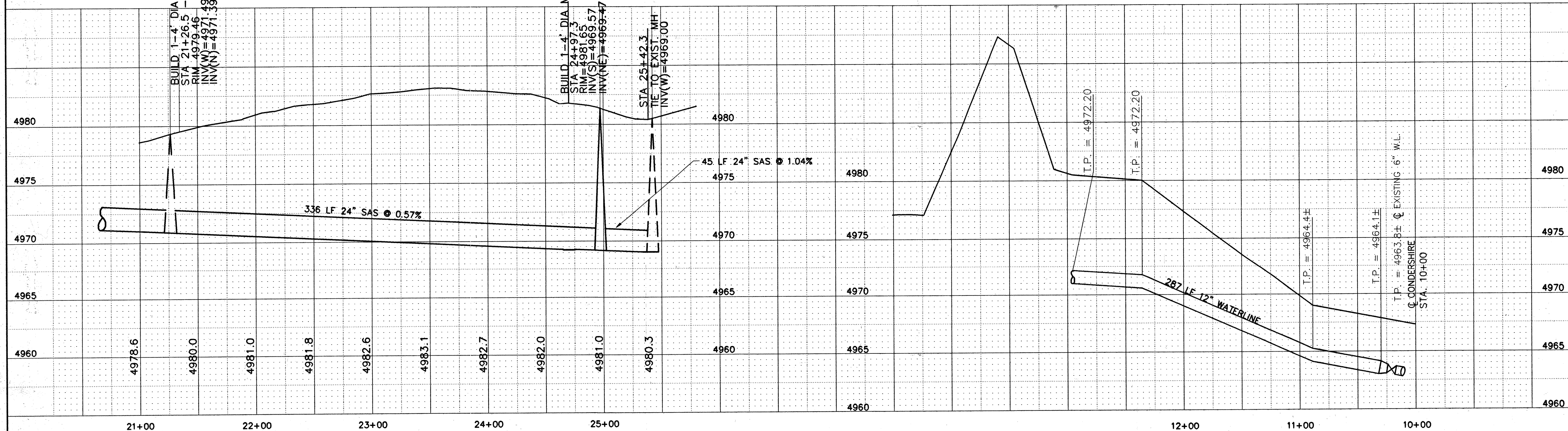
AMOLE-HUBBELL-BORREGA
DRAINAGE R.O.W.
FILED: 11-26-89
VOL. C39, FOL. 59
R/W 2



SECTION A-A
TYPICAL, MH 10-12



FLORA VISTA AVENUE, S.W. - EXTENSION



PLAN
SCALE: 1"=50' HORIZ.
PROFILE
SCALE: 1"=50' HORIZ.
1"=5' VERT.

LEGEND

- NEW EXIST.
- SAS SANITARY SEWER
 - W WATER LINE
 - G GAS LINE
 - SD STORM DRAIN
 - UT UNDERGROUND TELEPHONE LINE
 - UE UNDERGROUND ELECTRICAL LINE
 - CATV UNDERGROUND CABLE TV LINE
 - TC TRAFFIC SIGNAL CONDUIT

- NOTE: 1. REPLACE 15' WIDE 6" THICK BASE COURSE ON EAST SIDE ROAD AFTER COMPLETION OF BACKFILL.
2. PROVIDE COAL TAR EPOXY COATING FOR EXISTING MH AND MH 12 AT END OF FLORA VISTA.

NOTE: RELOCATE SMALL TREE IN SIDEYARD OF 3213 CONDSHIRE AS REQUIRED FOR CONSTRUCTION. COORDINATE WITH RESIDENT FOR LOCATION.

AS-BUILT INFORMATION	
CONTRACTOR	JR. HALE CONST. CO., INC.
WORK	SEWER & WATER
DATE	5/98
INSPECTOR	DATE
APPROVED BY	DATE
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE

BENCH MARKS	
BENCHMARK USED IS A STANDARD NMHC BRASS CAP	
STAMPED "STA NM-45-8" LOCATED AT THE INTERSECTION OF S. COORS RD. & RIO BRAVO BLVD., S.W.	
ELEV. = 4939.015	

SURVEY INFORMATION	
FIELD NOTES	
BY	DATE
SJT, CNT, JES	2/94
NO.	
1	

ENGINEER'S SEAL	
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
FLORA VISTA AVENUE, S.W. - EXTENSION SOUTH VALLEY WATER AND SEWER SYSTEM IMPROVEMENT PROJECT(U-1 AREA, PHASE IIA)	
DESIGN REVIEW COMMITTEE	City Engineer Approval
Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.
4515.96	P-10
Sheet	7 Of 10

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITHIN THE UNDERSTANDING THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE 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.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO 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 CONSTRUCTION COORDINATION, PER SECTION GA-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP 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.

8. 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.

9. 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.

10. 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 CONSTRUCTION COORDINATION PER MUTCD SECTION GA-4.

11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:30 A.M. OR END WORK AFTER 4:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION GA-4 OF THE MUTCD, LATEST EDITION.

18. 24 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.

19. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

20. 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.

21. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:

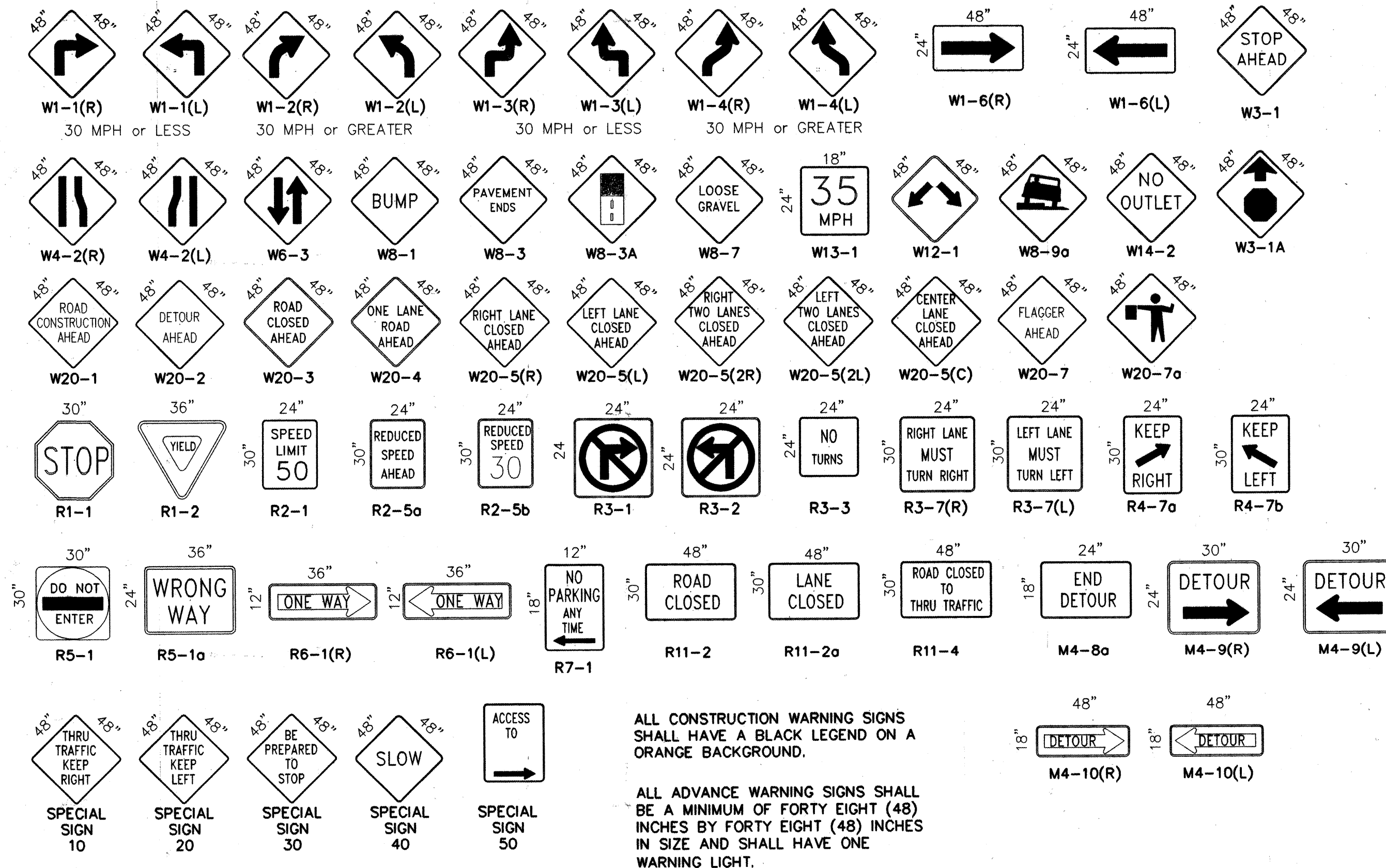
- STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
- THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
- SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.
- BERNALILLO COUNTY PUBLIC WORKS APPLICABLE CODES & STANDARDS.

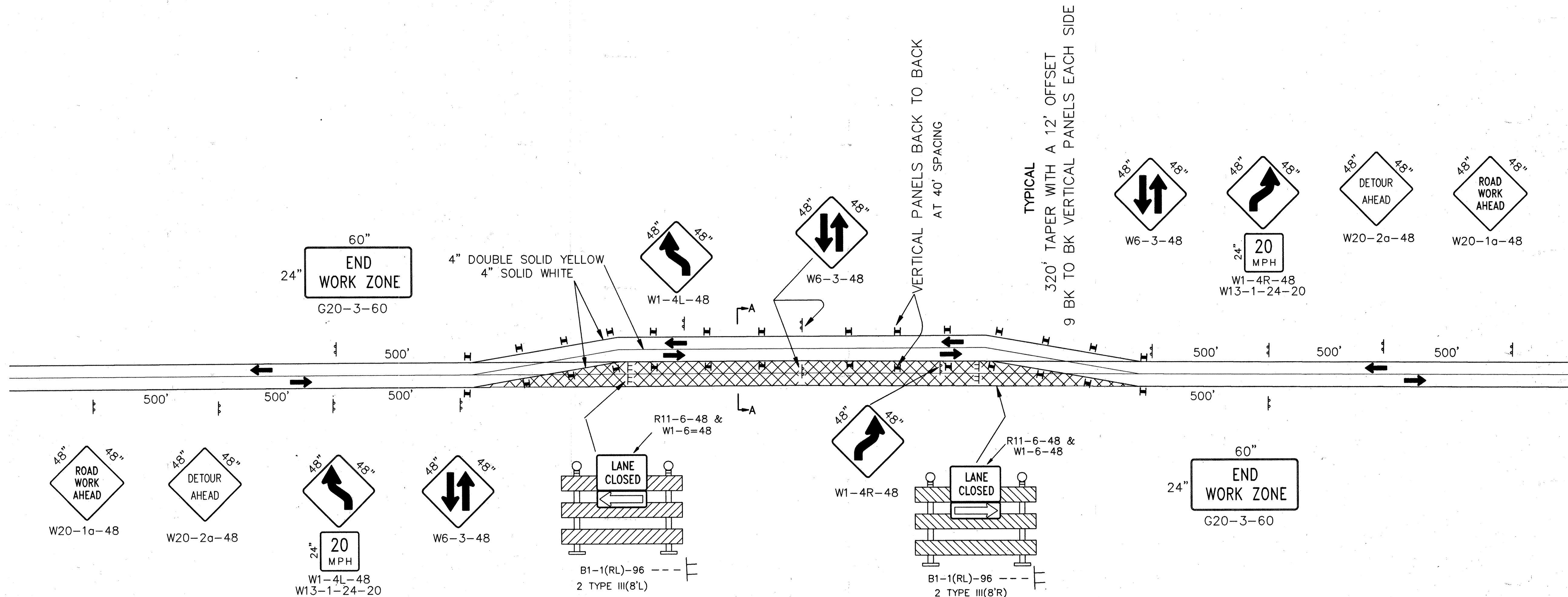
22. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

BERNALILLO COUNTY TRAFFIC CONTROL GENERAL NOTES

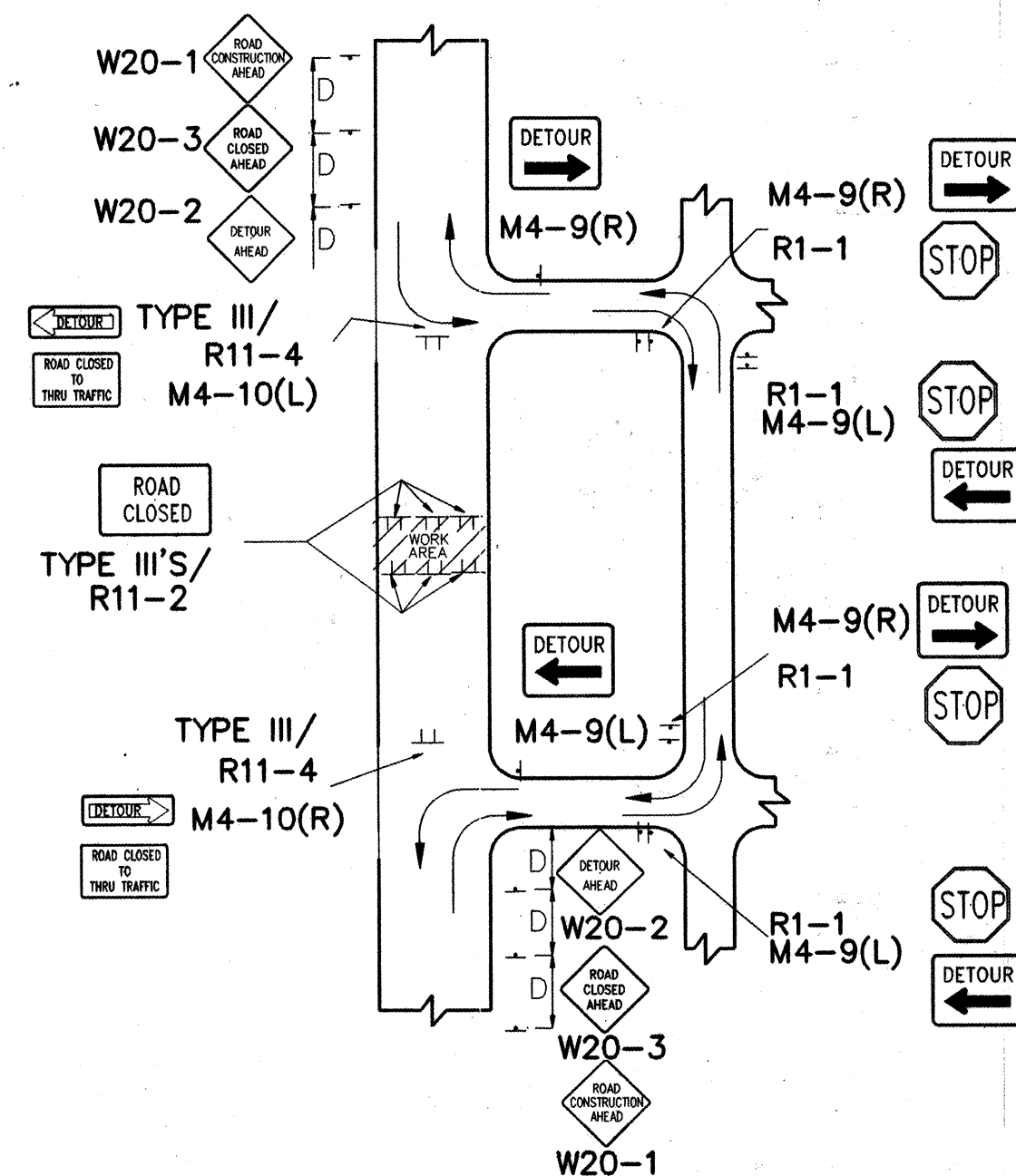
- SUBJECT TO THE APPROVED TRAFFIC CONTROL PLAN, AT LEAST ONE LANE SHALL BE OPEN TO TRAFFIC AT ALL TIMES. CONTRACTOR SHALL PROVIDE PROPER SIGNAGE & FLAGMEN AND SHALL MAINTAIN THE TRAFFIC LANES IN SUCH A MANNER AS TO ASSURE PROPER SAFETY TO THE TRAVELING PUBLIC ON ALL AFFECTED ROADS. THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL PRIVATE & PUBLIC PROPERTY AT ALL TIMES, EXCEPT WHEN GRADING, PAVING, EXCAVATION & BACK-FILL 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.
- 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 & SMOOTH, AND WATERED SEVERAL TIMES DAILY TO CONTROL DUST.
- A DAILY TRAFFIC CONTROL LOG SHALL BE MAINTAINED BY THE CONTRACTOR REFLECTING THE TYPES & 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 MANAGER UPON COMPLETION OF THE PROJECT CONSTRUCTION OR WHEN SO REQUESTED BY THE PROJECT OR THE BERNALILLO COUNTY TRAFFIC CONTROL MANAGER.
- ALL NEW STREET PAVING ABUTTING EXISTING AREAS SHALL MATCH THE ELEVATIONS OF THOSE AREAS.
- CONTRACTOR SHALL PROVIDE A WEEKLY CONSTRUCTION ACTIVITY SCHEDULE TO BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT, ATTN: HOSS FOSTER.
- PROJECT IS SUBJECT TO THE REQUIREMENTS OF COUNTY ORDINANCE NO. 95-12 & 83-28. THE CONTRACTOR IS RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS. CONTRACTOR SHALL CALL 848-1500 FOR MORE INFORMATION.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE COUNTY TRAFFIC CONTROL MANAGER AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK. TRAFFIC CONTROL PLANS SHALL BE PREPARED IN ACCORDANCE WITH MUTCD REQUIREMENTS AND BY CERTIFIED PERSONNEL AND MUST BE APPROVED PRIOR TO COMMENCEMENT OF WORK ON THE PROJECT. CALL 848-1504 FOR FURTHER INFORMATION.
- THE CONTRACTOR SHALL FILE WEEKLY WRITTEN REPORTS TO THE TRAFFIC CONTROL MANAGER DESCRIBING THE TRAFFIC CONTROL PLAN THAT WILL BE IN EFFECT FOR THE FOLLOWING WEEK.

SIGN FACE DETAILS

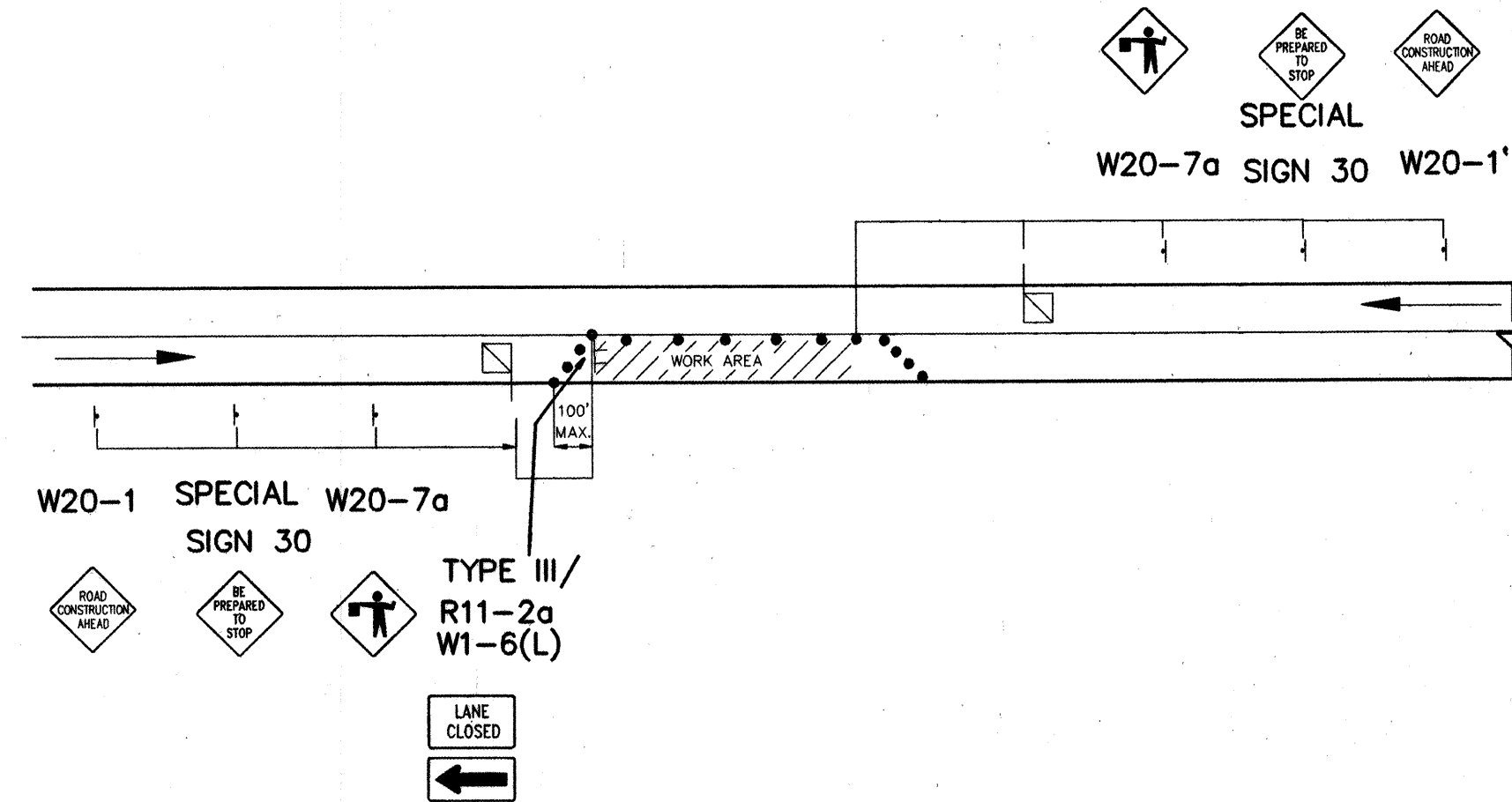




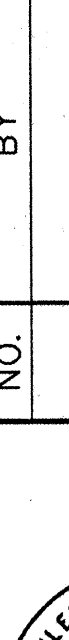
LEFT SIDE
TYPICAL SHOOFLY DETOUR
WORKING AND NON-WORKING HOURS
RIGHT SIDE IS SAME SIGNING IN REVERSE



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



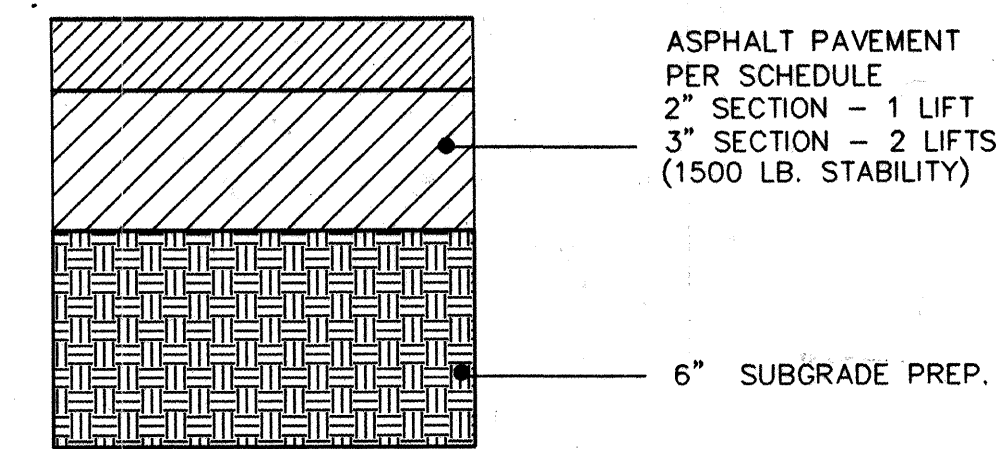
TYPICAL FLAGGING OPERATION

DRAWING EXAMPLES		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS-BUILT INFORMATION	
SANITARY AND SEWER				FIELD NOTES				CONTRACTOR J.R. HALE CONSTRUCTION, INC.	
-1 AREA, PHASE IIA)				BY				DATE 5/98	
DRAWING EXAMPLES				DATE				DATE 5/99	
NO. DATE		REMARKS		BY		FIELD		VERIFICATION BY COA	
DESIGNED BY		RJP		DATE MAY, 1997		INVESTOR'S		DATE 5/99	
DRAWN BY		DLS		DATE MAY, 1997		FINANCE BY		DATE 5/99	
CHECKED BY						FIELD		DATE	
DATE						NO.		RECORDED BY	
								DATE	
								NO.	

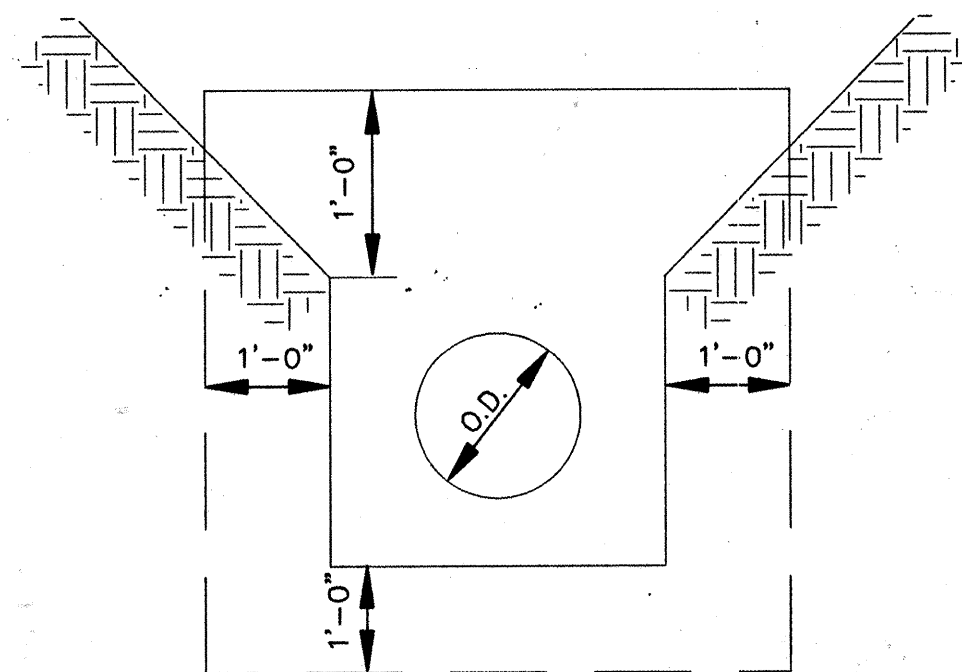
Mo./Day/Yr.

Mo./Day/Yr.

Sheet 9 Of 10

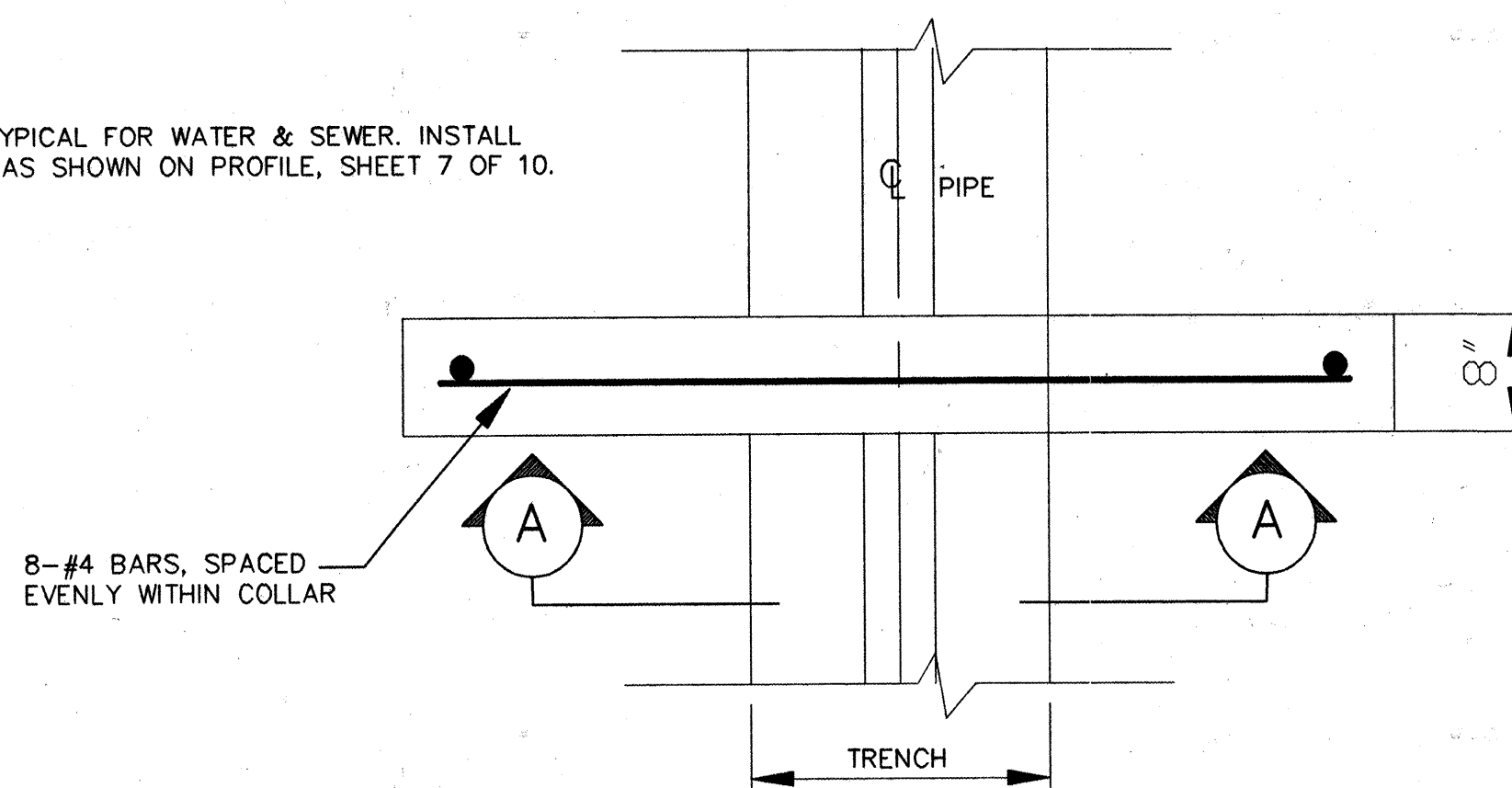


TEMPORARY PAVEMENT SECTION
(INCIDENTAL TO TRAFFIC CONTROL)
NTS

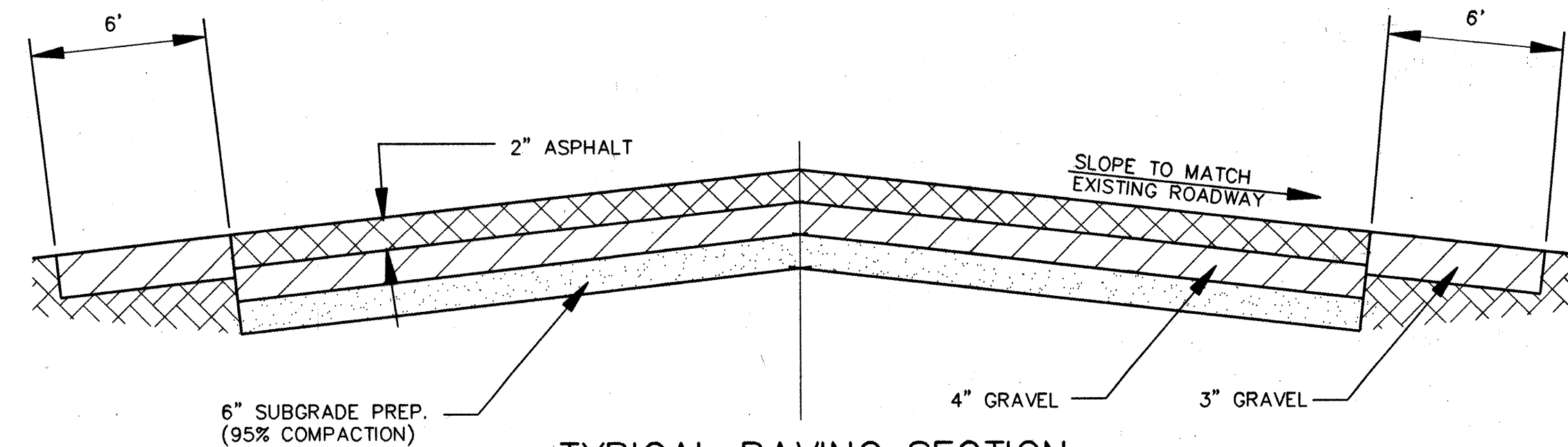


SECTION A-A
NTS

NOTE: DETAILS TYPICAL FOR WATER & SEWER. INSTALL TWO, EACH LINE AS SHOWN ON PROFILE, SHEET 7 OF 10.

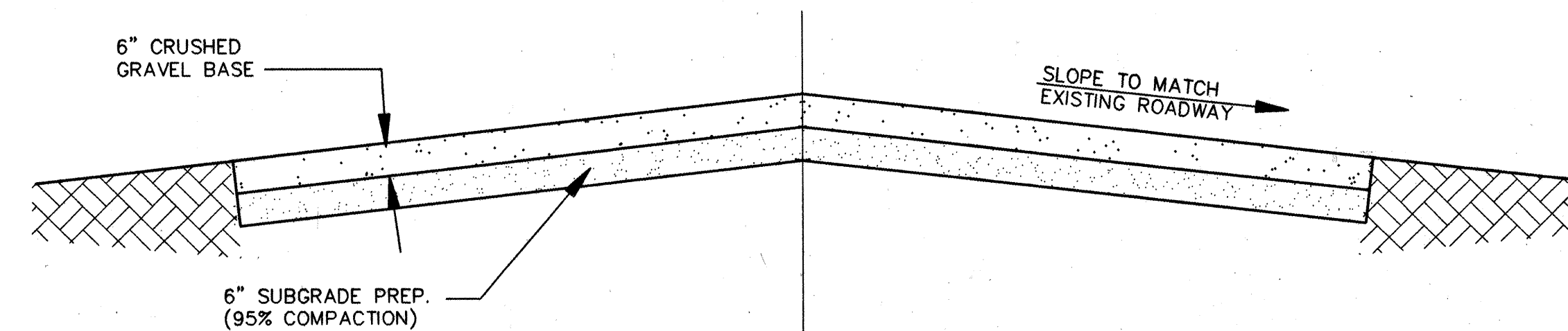


SEEPAGE COLLAR - PLAN
NTS



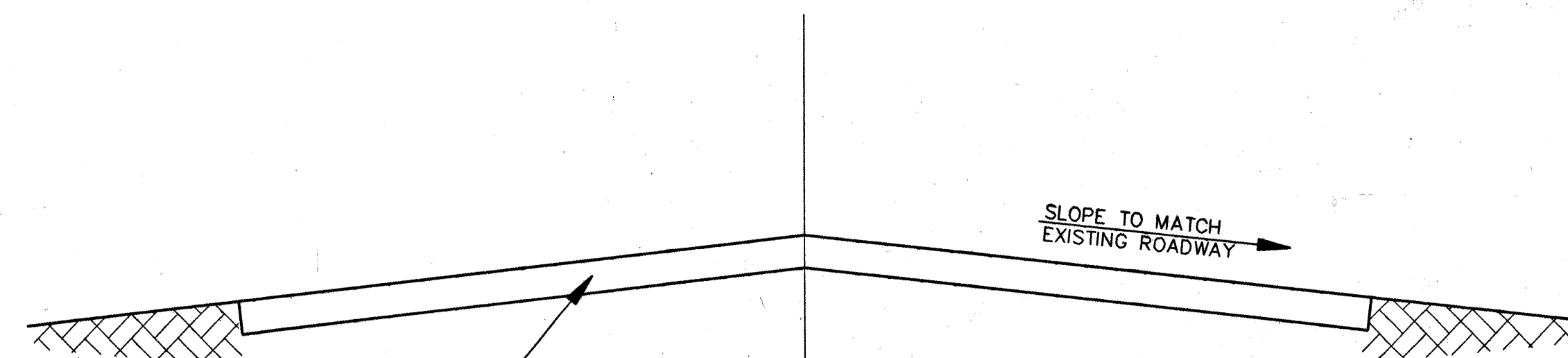
TYPICAL PAVING SECTION

NTS
NOTE: REPLACED PAVEMENT SECTIONS SIMILAR TO BERNALILLO COUNTY RURAL PAVING STD. 2405A



TYPICAL GRAVEL SECTION

NTS



TYPICAL DIRT SECTION

NTS

TYPICAL ROADWAY SECTIONS

NTS

NOTE: PRIOR TO CONSTRUCTION CONTRACTOR SHALL SURVEY CROSS SECTIONS OF EXISTING ROADWAYS AT 50' STATION INTERVALS TO VERIFY EXISTING ROAD PROFILE AND FURNISH COPIES TO ENGINEER.

FINISH GRADES SHALL MATCH EXISTING UNLESS OTHERWISE DIRECTED BY ENGINEER TO CORRECT INCONSISTENCIES.

ROADWAY REPLACEMENT SCHEDULE

STREET NAME	TYPE	EXISTING THICKNESS	WIDTH	FINISH TOTAL THICKNESS
GRACE VIGIL ROAD	PAVED	3"	24'	SEE SECTION ABOVE
MEADE AVE.	PAVED	3"	24'	SEE SECTION ABOVE
MEADE PL.	PAVED	3"	24'	SEE SECTION ABOVE
BARBARA VISTA AVE.	GRAVEL/DIRT	3"	24'	6"
FLORA VISTA AVE.	GRAVEL	3"	24'	6"

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
SOUTH VALLEY WATER AND SEWER SYSTEM IMPROVEMENT PROJECT(U-1 AREA, PHASE IIA) MISCELLANEOUS DETAILS			
Design-Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
4515.96	N-10,P-10	10	10

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY	
CONTRACTOR J.R. HALE CONST. CO. INC.		BENCHMARK USED IS A STANDARD ACS BRASS CAP STAMPED		FIELD NOTES		ENGINEER'S SEAL		REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY	
WORK AT DEMALIS LYNN		"ACS 45-7A, 1976" LOCATED 42.3' WEST OF THE INTERSECTION OF		DATE		ENGINEER'S SEAL		REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY	
DATE 5/98		S. COORS RD. & BLAKE RD. S.W. ELEV.=4953.487		BY		ENGINEER'S SEAL		REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY	
DATE 1/99		TBM #1 = PAINT SPOT AT TOP OF CURB @ S. CURB - END OF		NO.		ENGINEER'S SEAL		REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY	
DATE 5/98		CURB ON EDUARDO RD. S.W. ELEV.=4969.27				ENGINEER'S SEAL		REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY	
DATE 5/98		TBM #2 = NE CORNER CONC. FENCE POST @ 3800 EDUARDO RD. S.W.				ENGINEER'S SEAL		REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY	
DATE 5/98		ELEV.=4984.57				ENGINEER'S SEAL		REVISIONS		DESIGNED BY		DRAWN BY		CHECKED BY	