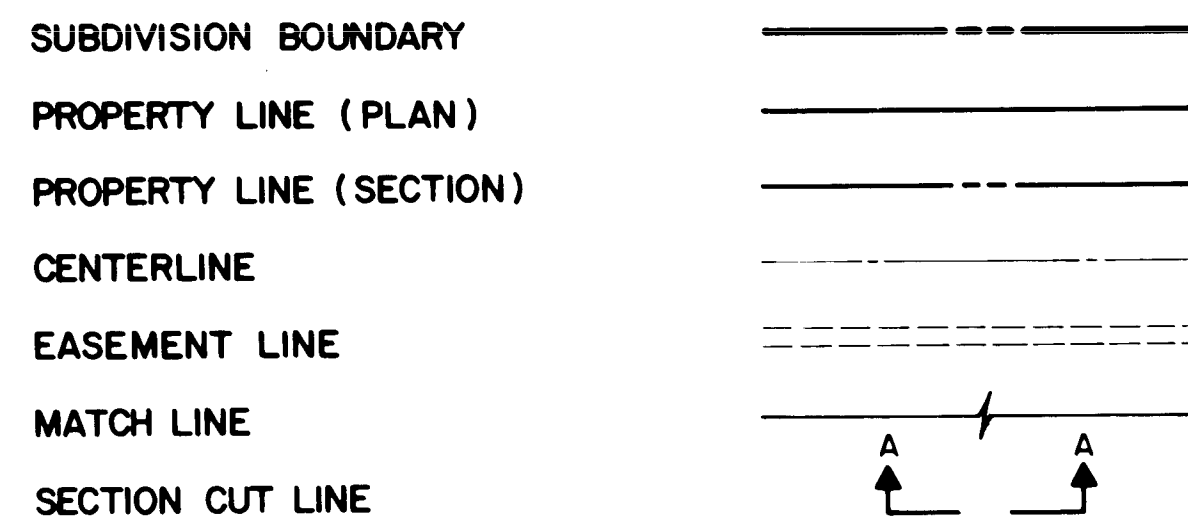


• L E G E N D •

MATERIALS



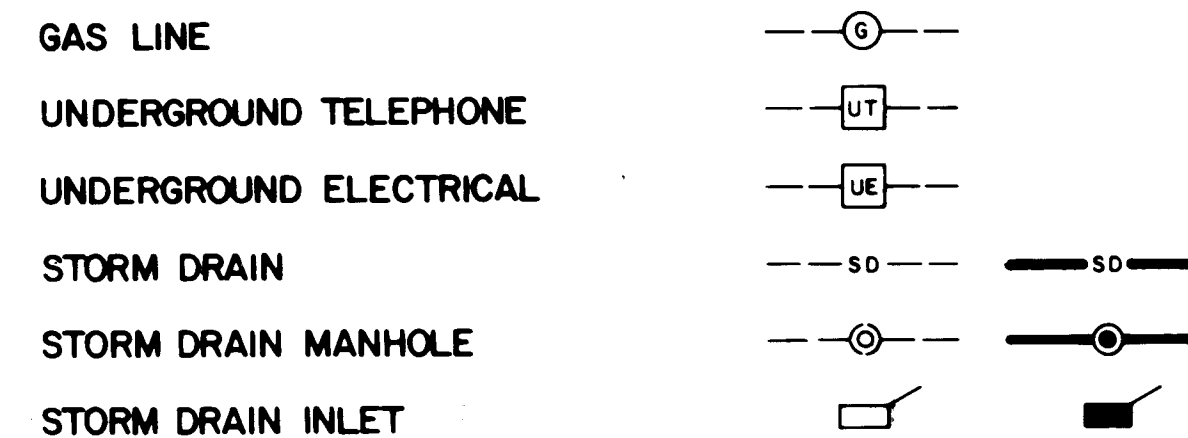
LINES



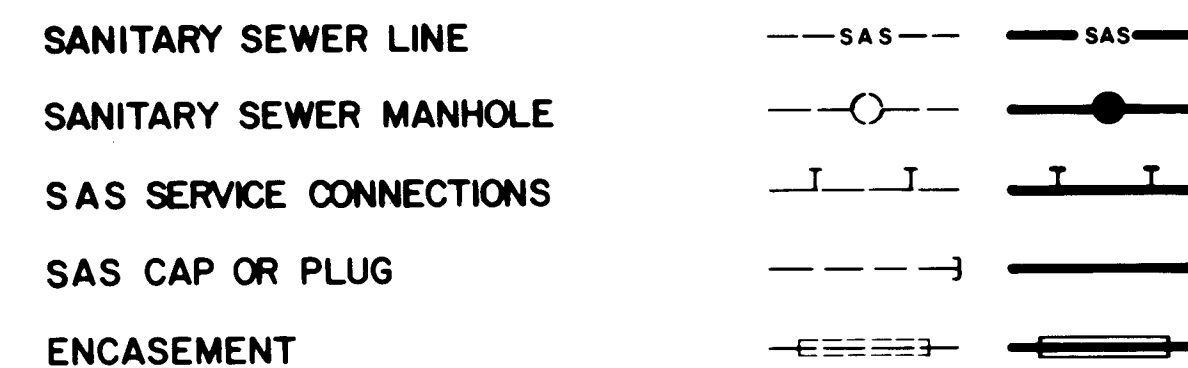
EARTHWORK



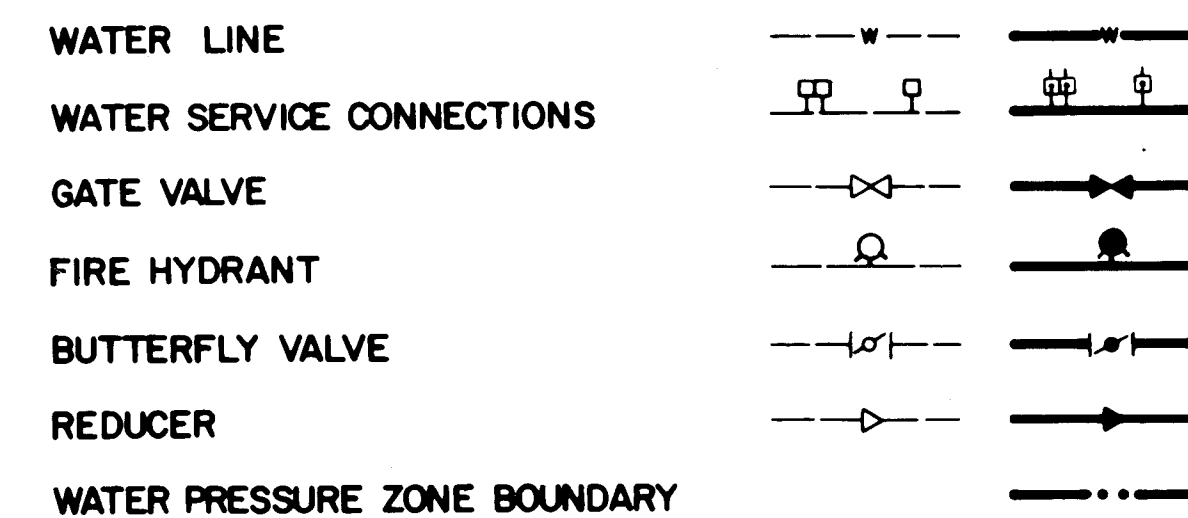
MISCELLANEOUS UTILITIES



SANITARY SEWER



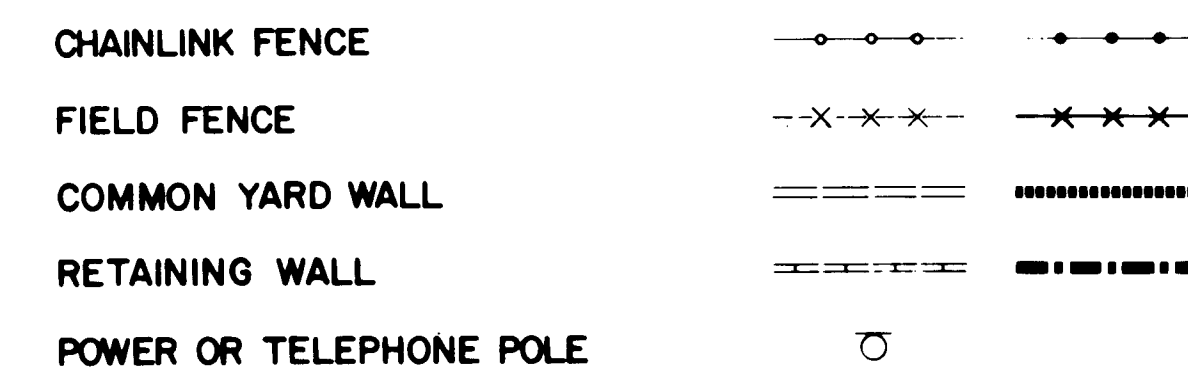
WATER



WATER FITTINGS



MISCELLANEOUS

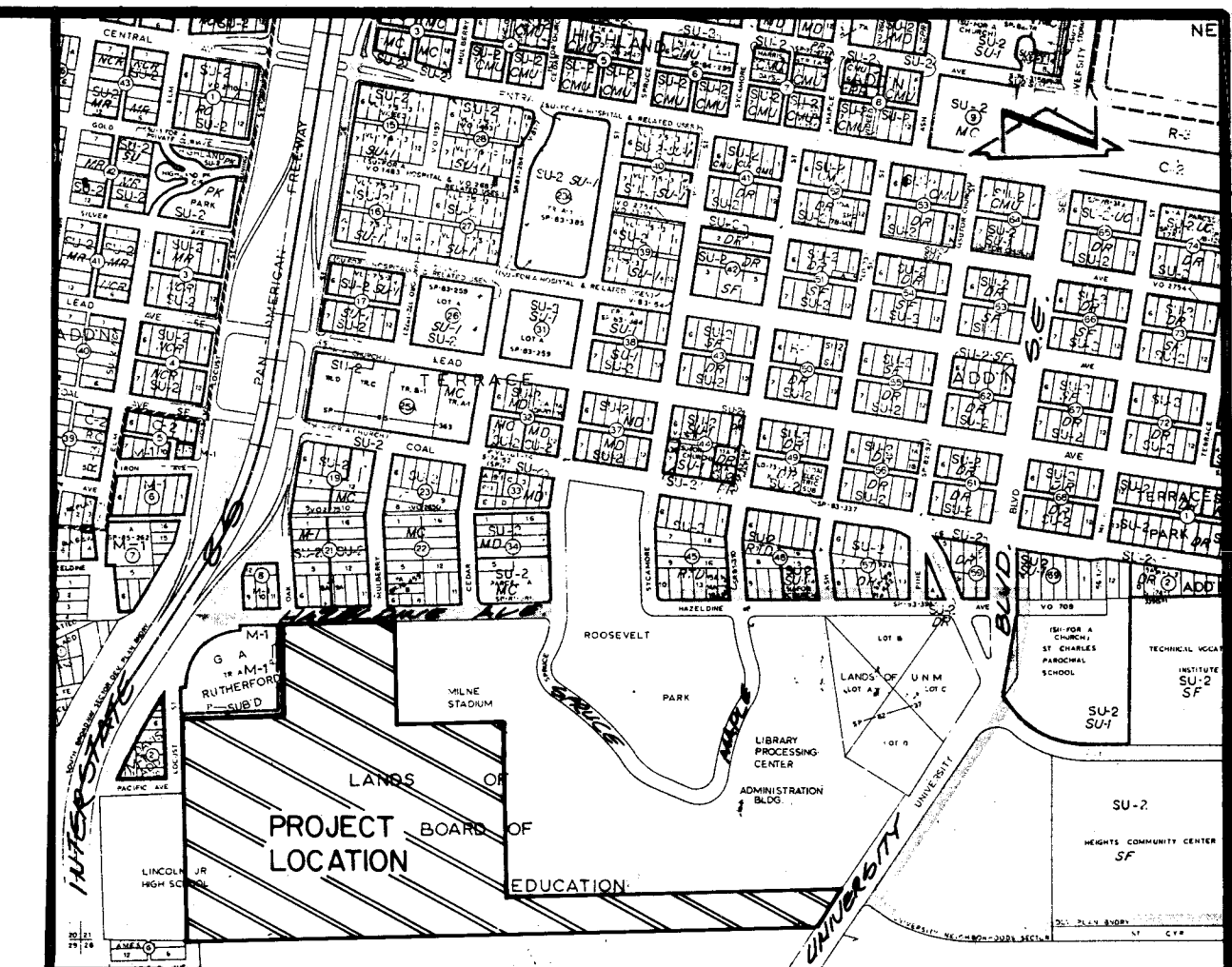


CONSTRUCTION PLANS
FOR
P.S.F. WATERLINE
ALBUQUERQUE, NEW MEXICO
FEBRUARY, 1988

SHEET NO.

INDEX OF DRAWINGS

- COVER SHEET, INDEX OF DRAWINGS, VICINITY MAP, GENERAL NOTES, LEGEND
- SITE PLAN
- BASELINE PLAN
- WATER EXTENSIONS PLAN AND PROFILE
- LINE 'A' STA 10+00 TO STA 14+65.93
LINE 'D' STA 10+00 TO STA 20+48.30
LINE 'E' STA 10+00 TO STA 13+45
- LINE 'B' STA 10+00 TO STA 21+10.71
LINE 'C' STA 10+00 TO STA 14+51.57
- LINE 'F' STA 10+17.50 TO STA 31+87
- VALVE SHUT-OFF PLAN/TRAFFIC CONTROL DETAILS



VICINITY MAP

SCALE: 1" = 800'

K-15

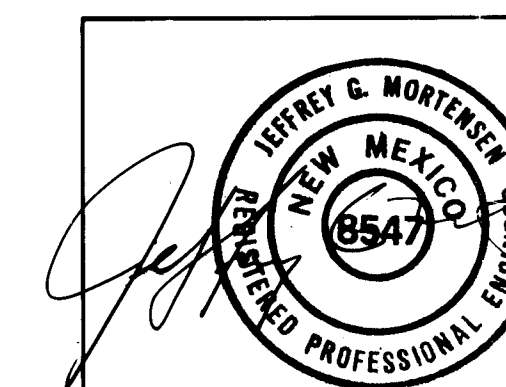
GENERAL NOTES:

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS - PUBLIC WORKS CONSTRUCTION - 1986.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES AND UNDERGROUND UTILITY LINES IN PLANNING AND CONDUCTING EXCAVATION. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
- SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
- ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
- THE CONTRACTOR MUST SUBMIT A CONSTRUCTION SIGNING AND BARRICADING PLAN TO TRAFFIC ENGINEERING TO RECEIVE A BARRICADING PERMIT 48 HOURS PRIOR TO CONSTRUCTION.
- ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- IF CURB IS DEPRESSIONED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM DIVISION FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN TWO (2) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES.

DESIGNED BY AS BUILT DRAWINGS
CONSTRUCTION ENGINEER
Russell B. Smith
11-9-88

1 2 3 4 5 6 7 8 9 10 11 12
26 34 91 01 88

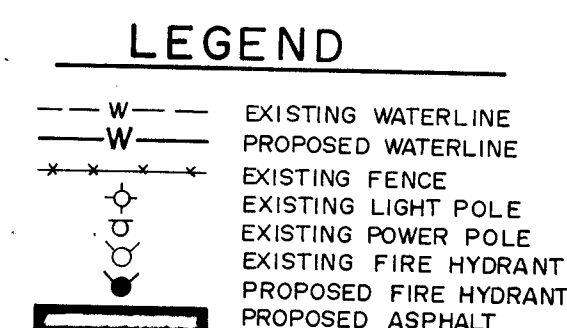
REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
APPROVAL OF REVISIONS							



APPROVED FOR
CONSTRUCTION
Mark H. Smith
7-19-88 C.E.

3491

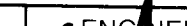
SHEET 1 OF 7



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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: P S F. WATERLINE
SITE PLAN

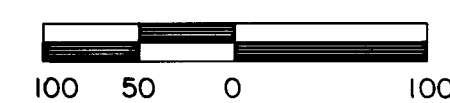
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D.R.C. Chair		09/10/98			
Trans. Dev.		04/11/98			
Utility Dev.		4/13/98			
Hydrogen	W.A. RAB	4-14-98			

DRAWING NO.	3491	MAP NO.	K-15	SHEET	2	OF	7
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		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
				FIELD NOTES		STATION IS AMAFCA BRASS TABLET STAMPED "SDC 14'-15", SET ON A CONCRETE POST PROJECTING 0.5 ft. ABOVE THE GROUND. THE STATION IS LOCATED 1100' NORTH OF THE STADIUM BLVD. BRIDGE OVER THE AMAFCA SOUTH DIVERSION CHANNEL. ELEVATION: 5036.3 ft. (M.S.L.D.)		CONTRACTOR	
				BY		DATE		WORK STAKED BY	
				NO.				DATE	
								FIELD ACCEPTANCE BY	
								DATE	
								DRAWING CORRECTED BY	
								DATE	
								MICRO-FILM INFORMATION	
								RECORDED BY	
								DATE	
								NO.	

04-01-58

TMA JOB # 871812



TRACT A,
RUTHERFORD SUBD.
FILED 8-3-1963, C5-180

UNPLATTED LANDS OF
BOARD OF EDUCATIONUNPLATTED LANDS OF
BOARD OF EDUCATION

LINE	BEARING	DISTANCE
L1	S 0°58'22" E	58.68
L2	S 2°54'14" W	30.00
L3	S 0°41'28" W	22.50
L4	S 89°18'32" E	10.00
---	---	---
L6	S 87°08'52" E	75.44
L7	S 73°28'18" E	99.89
L8	S 2°55'14" W	100.00
L9	S 73°27'44" E	49.80
L10	S 73°25'19" E	49.98

ALBUQUERQUE PUBLIC SCHOOLS
CENTRAL OFFICE AREA

PARCEL 2,
U. N. M. SOUTH CAMPUS

PT#	NORTHING	EASTING	DESCRIPTION
1	3707.978000	2796.644000	
2	3936.127000	2806.657000	NAIL & SHINE
3	3954.703000	2355.678000	
4	4060.167000	2812.159000	NAIL & SHINE
5	4060.641000	2802.165000	MANHOLE COVER
6	4575.252000	2834.789000	NAIL & SHINE
7	4571.509000	2910.172000	
8	4543.066000	3005.896000	
9	4528.857000	3053.621000	
10	4514.610000	3101.549000	NAIL & SHINE
12	4381.301000	3370.358000	NAIL & SHINE
13	4164.226000	3489.447000	
14	3989.058000	3480.516000	
15	3701.476000	3335.683000	#4 REBAR
16	3691.790000	4138.636000	
17	4832.489000	3143.796000	
19	5022.629000	3140.547000	
22	4976.972000	2807.546000	#4 REBAR
23	4611.405000	2813.702000	#4 REBAR
59	4205.830858	3361.423207	
60	4189.873269	3676.018749	
63	3995.636929	3350.699405	
64	3801.349119	3340.787112	
68	3807.969916	2801.146503	
72	5023.353923	3182.120013	
73	4964.679098	3183.116238	
76	3685.479637	2796.372610	
77	3660.361374	4878.687182	
78	3678.977285	3335.420316	
83	3660.240756	4888.686455	

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES				CONTRACTOR	
		NO.	BY	DATE			WORK DONE BY
					STATION IS AMAFCA BRASS TABLET STAMPED		INSURED BY
					0.5' H. ABOVE THE GROUND. THE STATION IS LOCATED		ACCEPTANCE BY
					1100' NORTH OF THE STADIUM BLVD. BRIDGE OVER		FIELD
					THE AMAFCA SOUTH DIVERSION CHANNEL.		DRAWINGS
					ELEVATION: 5036.3 ft. (M.S.L.D.)		CORRECTED BY
						MICRO-FILM INFORMATION	
						RECORDED BY	
						DATE	
						NO	

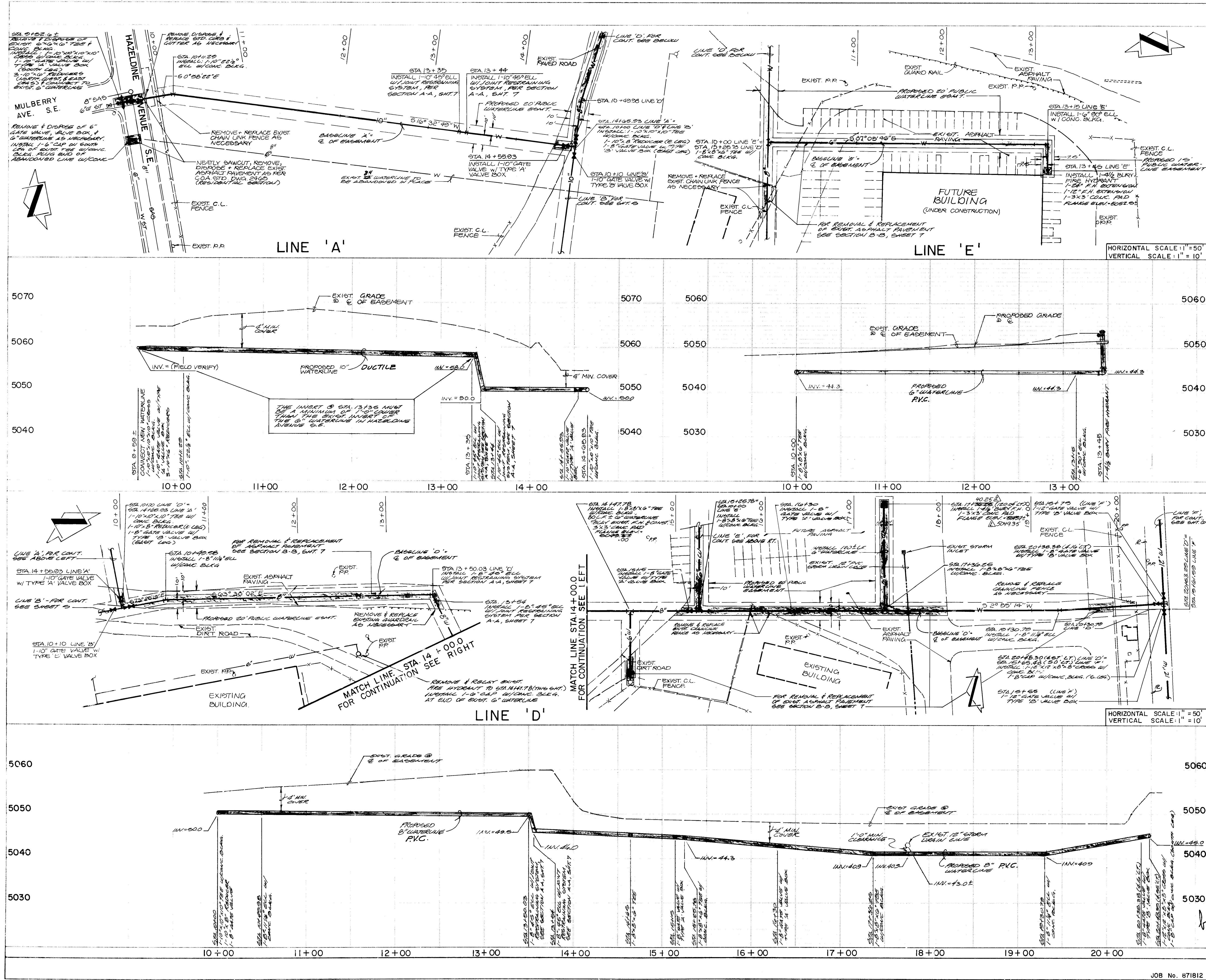
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:	P.S.F. WATERLINE BASELINE PLAN
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APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair		04/07/83			
Trans. Dev.		04/07/83			
Utility Dev.		04/07/83			
Hydrology		4-11-83			
DRAWING NO.	3491	MAP NO.	K-15	SHEET	3 OF 7

JOB No. 871812



WATER DISTRIBUTION SYSTEM

- ALL STATIONING IS BASED ON WATERLINE BASELINE UNLESS OTHERWISE INDICATED. FOR BASELINE DATA, REFER TO BASELINE (SHEET 2).
- WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER (SEE NOTE 5).
- WATER LINE SHALL HAVE A MINIMUM COVER OF 4'0" (FINISHED GRADE TO TOP OF PIPE).
- ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
- DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
- ALL PIPE SHALL BE FURNISHED WITH CLASS 1C BEDDING UNLESS OTHERWISE NOTED. ALL TRENCHING BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90% OF OPTIMUM, AS PER ASTM D-1557.
- WHERE SEWER AND WATER LINES CROSS, IF VERTICAL CLEARANCE DOES NOT EXCEED 1'6", THE SEWER LINE MUST BE PRESSURE PIPE, OR SHALL BE CONCRETE ENCASED 10' EACH SIDE OF WATER LINE.
- FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD DRAWING 2465.
- CONTRACTOR SHALL REMOVE AND REPLACE EXISTING RESIDENTIAL AND ARTERIAL PAVING FOR CITY-WIDE PAVEMENT CUTS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2465.

AS BUILT INFORMATION

STATION IS AMFCA BRASS TABLET STAMPED "SD 14-15" SET ON A CONCRETE POST PROJECTING 0.5 FT. ABOVE THE GROUND. THE STATION IS LOCATED 1100' NORTH OF THE STADIUM BLVD. BRIDGE OVER THE AMFCA SOUTH DIVERSION CHANNEL. ELEVATION: 5036.3 FT. (M.S.L.D.)

ENGINEER'S SEAL

REVISIONS

NO.	DATE	REMARKS
1	02/88	DESIGN
2	02/88	REVISION
3	02/88	REVISION

DESIGNED BY: L.J.U. DATE: 02/88
DRAWN BY: R.A.R. DATE: 02/88
CHECKED BY: J.G.M. DATE: 02/88

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

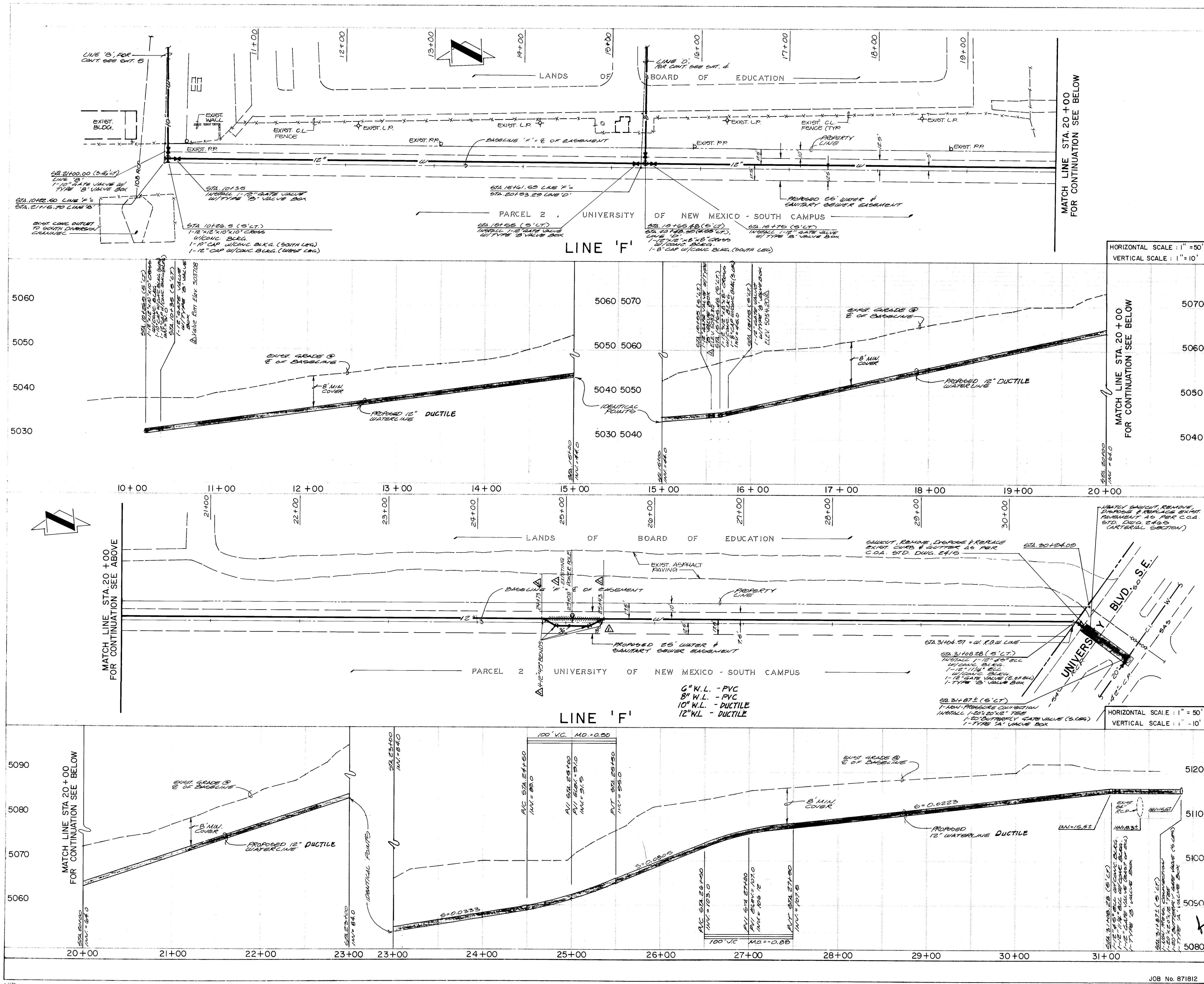
TITLE
WATERLINE EXTENSION PLAN AND PROFILE
LINE "A" STA. 10+00 TO STA. 14+65.93
LINE "D" STA. 10+00 TO STA. 20+48.30
LINE "E" STA. 10+00 TO STA. 13+45

APPROVALS

ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	4/13/88	Liquid Waste	4/13/88	
ACE-Design	04/11/88	Traffic	04/11/88	
ACE-Hydrology	04/11/88	Water	04/11/88	

DRAWING NO. 3491 **MAP NO.** K-15 **SHEET** 4 **OF** 7

JOB NO. 871812



WATER DISTRIBUTION SYSTEM

1. ALL STATIONING IS BASED ON WATERLINE BASELINE UNLESS INDICATED OTHERWISE. FOR BASELINE DATA, REFER TO BASELINE (SHEET 3).
2. WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER (SEE NOTE 5).
3. WATER LINE SHALL HAVE A MINIMUM COVER OF 4'0" (FINISHED GRADE TO TOP OF PIPE).
4. ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
5. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
6. ALL PIPE SHALL BE FURNISHED WITH CLASS 10' BEDDING UNLESS OTHERWISE NOTED. ALL TRENCHING BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90% OF OPTIMUM, AS PER ASTM D-1557.
7. WHERE SEWER AND WATER LINES CROSS, IF VERTICAL CLEARANCE DOES NOT EXCEED 1'6", THE SEWER LINE MUST BE PRESSURE PIPE, OR SHALL BE CONCRETE ENCASED 10' EACH SIDE OF WATER LINE.
8. FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARD DRAWING 2340.
9. CONTRACTOR SHALL REMOVE AND REPLACE EXISTING RESIDENTIAL AND ARTERIAL PAVING FOR CITY-WIDE PAVEMENT CUTS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2465.

AS BUILT INFORMATION

STATION IS AMFCA BRASS TABLE STAMPED "SDC 14-15" SET ON A CONCRETE POST PROJECTING 0.5' ABOVE THE GROUND. THE STATION IS LOCATED 1100' NORTH OF THE STADIUM BLVD. BRIDGE OVER THE AMFCA SOUTH DIVERSION CHANNEL. ELEVATION: 5036.3 ft. (M.S.L.D.)

ENGINEER'S SEAL

REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
08547
FRANK E. WINTEREN

REVISIONS

NO.	DATE	REMARKS	BY
1	10/18/88	REVISED FROM AS-BUILT INFORMATION	EV

DESIGNED BY LPU DATE 02/88
DRAWN BY R.A.R. DATE 02/88
CHECKED BY J.G.M. DATE 02/88

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

TITLE
WATER LINE EXTENSION PLAN & PROFILE
LINE 'F' STA 10+17.5 TO STA. 31+87.1

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
City Engineer	[Signature]	9/6/88	Liquid Waste	[Signature]	9/16/88
A.C.E. - Design	[Signature]	9/10/88	Traffic	[Signature]	9/10/88
A.C.E. - Hydrology	[Signature]	9/10/88	Water	[Signature]	9/10/88

DRAWING NO. 3491 **MAP NO.** K-15 **SHEET** 6 **OF** 7

JOB No. 871812

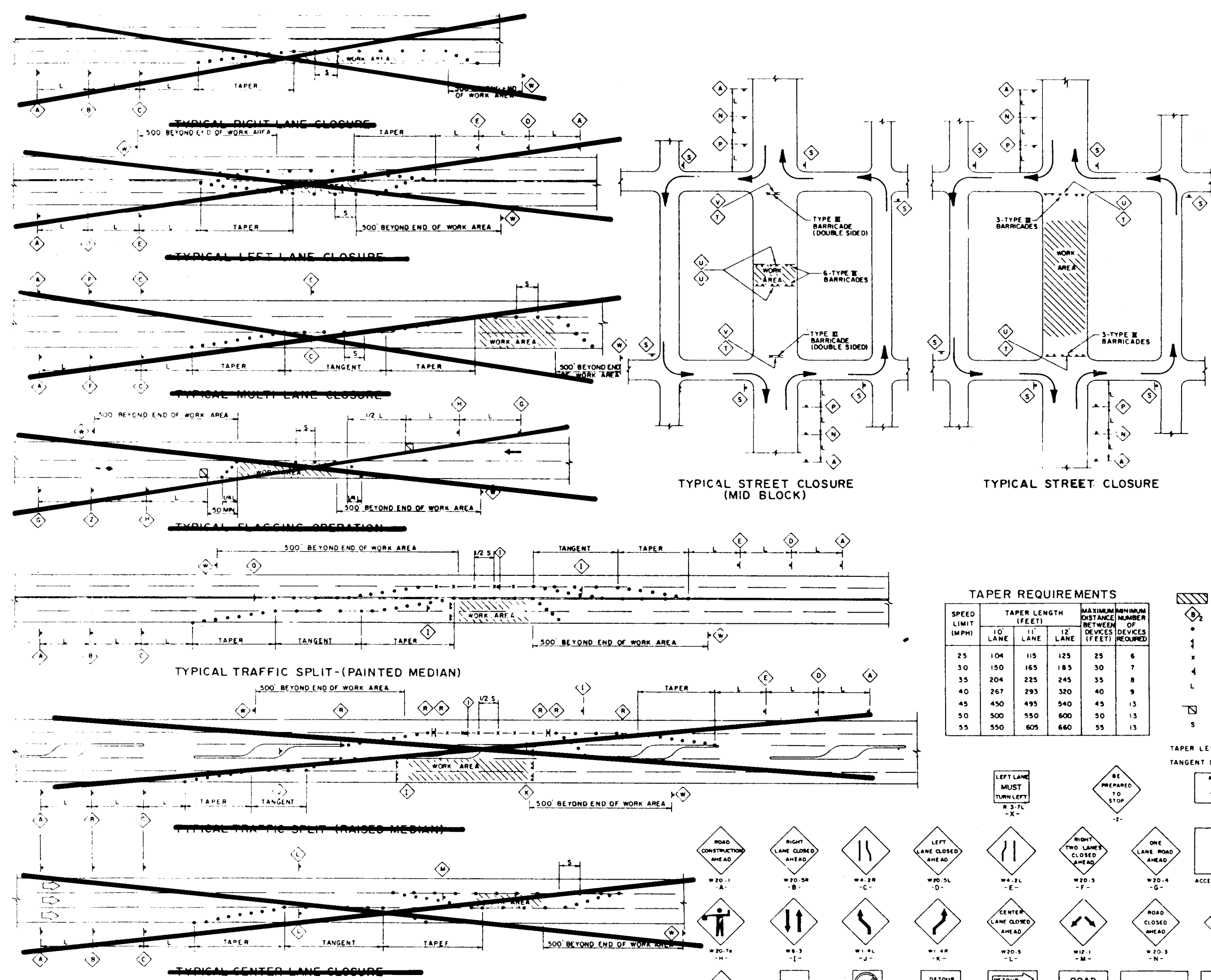
DETAIL 
N.T.S.

DETAIL 2
N.T.S.  5

DETAIL 
N.T.S.

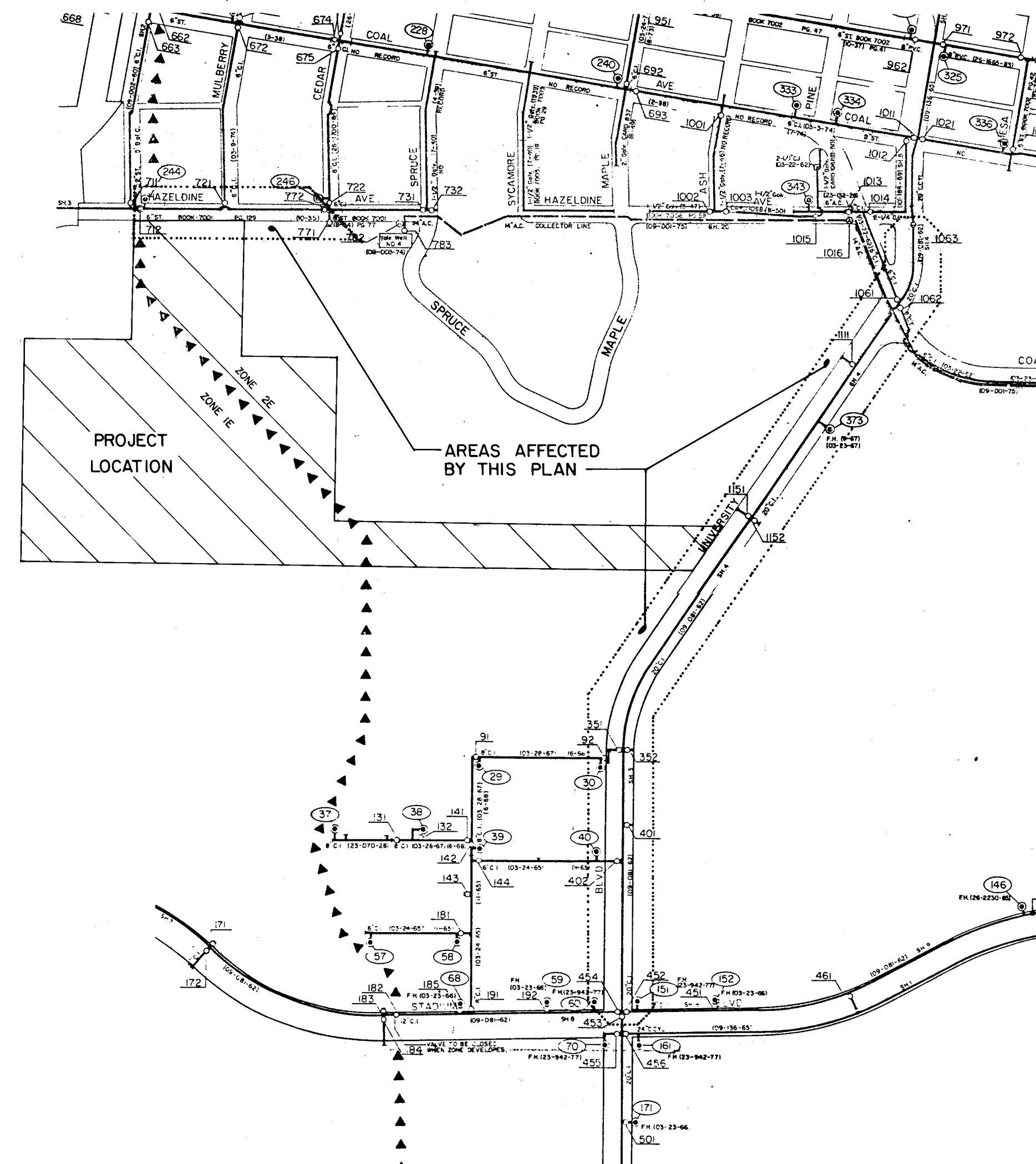
NOM. PIPE SIZE (IN.)	L. (FT.)					
	ELBOWS (deg.)				VALVES TEES DEAD ENDS	
	11½	22½	45	90		
2	2	3	5	8	6	
3	3	4	7	10	8	
4	3	5	8	12	9	
6	4	6	10	15	11	
8	4	7	13	20	14	
10	5	9	15	25	18	
12	6	10	17	29	21	

SECTION A-A
N.T.S.



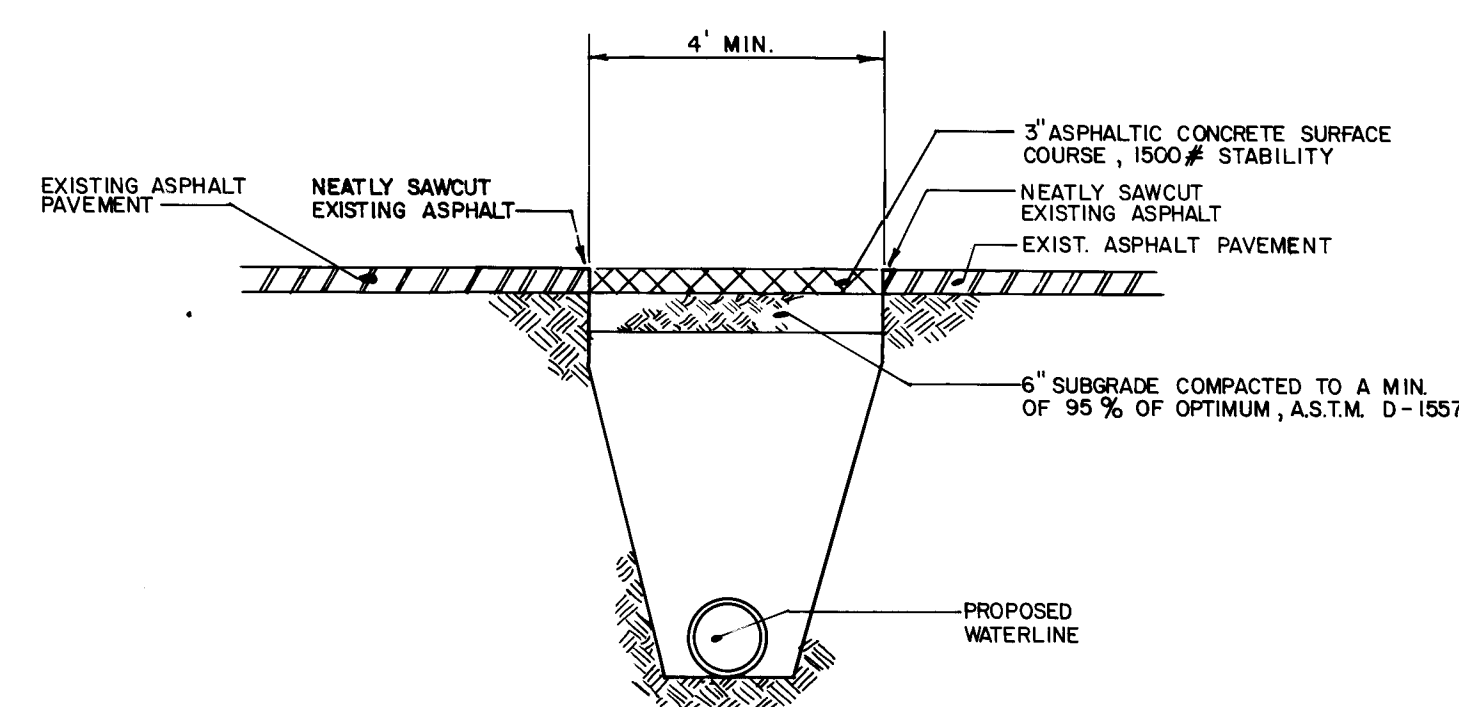
- P -

TRAFFIC CONTROL DETAILS



VALVE SHUT-OFF PLAN

K-15S/L-15N



SECTION B-B
N.T.S.

VALVE SHUT-OFF PLAN

1. CLOSE VALVES 712, 721 AND 772 FOR LINE "A" CONNECTION IN HAZELDINE AVENUE S.E.
2. CLOSE VALVES 351, 352, 401, 402, 452, 453, 454, 1061, 1062, 1063, 1151, 1152 AND 1111 FOR LINE "F" CONNECTION IN UNIVERSITY BOULEVARD S.E.

TRAFFIC CONTROL

3. CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF SECTION 19 OF THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, 1986.
4. CONTRACTOR SHALL LIMIT CONSTRUCTION OPERATION TO NO MORE THAN FOUR CONSECUTIVE DAYS, AT EACH SITE ON CORDOBA AVENUE, BOULEVARD AND HAZELDINE AVENUE.
5. EQUIPMENT AND MATERIALS ARE NOT TO BE STORED WITHIN STREET RIGHT-OF-WAY DURING NON WORKING HOURS.
6. CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE LANE IN EACH DIRECTION AT ALL TIMES. OPERATIONS SHALL BE LIMITED TO THE HOURS BETWEEN 9:00 A.M. TO 4:00 P.M. ON CORDOBA AVENUE, BOULEVARD, AND HAZELDINE, UNLESS PRIOR APPROVAL HAS BEEN MADE WITH THE TRAFFIC ENGINEER.
7. CONTRACTOR SHALL NOTIFY SURROUNDING BUSINESSES OF ROAD CLOSURE PRIOR TO CONSTRUCTION OPERATION. CONTRACTOR SHALL MAINTAIN ACCESS TO EACH BUSINESS, RESIDENT, AND FACILITY AT ALL TIMES.

[illegible]

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE:	P.S.F. WATERLINE VALVE SHUT-OFF PLAN / TRAFFIC CONTROL DETAILS
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APPROVALS		ENGINEER	DATE	APPROVALS		ENGINEER	DATE
D.R.C. Chair			4/10/08				
Trans. Dev			4/10/08				
Utility Dev			4/10/08				
4/10/08			4/10/08				
DRAWING NO.		3491		MAP NO.		K-15	
				SHEET		7 OF 7	