CONSTRUCTION PLANS

for

WESTERN MOBILE / FERRERI CONCRETE STRUCTURES

WATER AND SANITARY SEWER SERVICES

• LEGEND •

MATERIALS

- CONCRETE
- RIP-RAP

LINES

- SUBSIVISION BOUNDARY
- PROPERTY LINE (PLAN)
- PROPERTY LINE (SECTION)
- CENTERLINE
- EASEMENT LINE
- MATCH LINE
- SECTION CUT LINE (A — A)

EARTHWORK

	EXISTING	NEW
CONTOUR LINE	25	25
SPOT ELEVATION	⊕	
PROJECT / PHASE BOUNDARY		
SWALE		
DIRECTION OF FLOW		

MISCELLANEOUS UTILITIES

- GAS LINE (G)
- UNDERGROUND TELEPHONE (UT)
- UNDERGROUND ELECTRICAL (UE)
- STORM DRAIN (SD)
- STORM DRAIN MANHOLE
- STORM DRAIN INLET

SANITARY SEWER

- SANITARY SEWER LINE (SAS)
- SANITARY SEWER MANHOLE
- SAS SERVICE CONNECTIONS
- SAS CAP OR PLUG
- ENCASEMENT

WATER

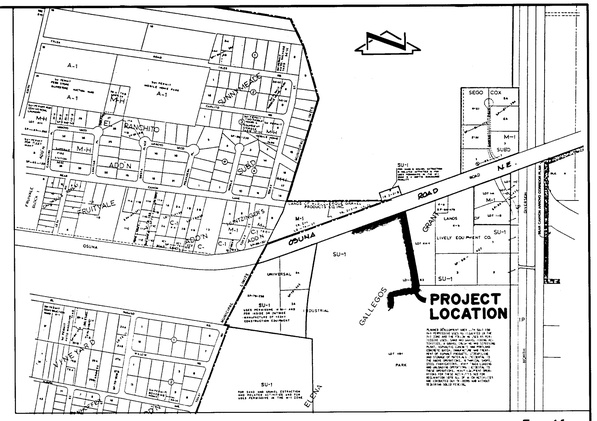
- WATER LINE (W)
- WATER SERVICE CONNECTIONS
- GATE VALVE
- FIRE HYDRANT
- BUTTERFLY VALVE
- REDUCER
- WATER PRESSURE ZONE BOUNDARY

WATER FITTINGS

- CAPS AND PLUGS
- ELBOW
- CROSS
- TEE

MISCELLANEOUS

- CHAINLINK FENCE
- FIELD FENCE
- COMMON YARD WALL
- RETAINING WALL
- POWER OR TELEPHONE POLE



VICINITY MAP

E - 16

RECORD DRAWING

INDEX OF DRAWINGS

SHEET	DESCRIPTION
1.	COVER SHEET, LEGEND, VICINITY MAP, GENERAL NOTES AND INDEX OF DRAWINGS
2.	SITE PLAN / WATER VALVE SHUT-OFF PLAN
3.	LINE "A" : STA. 9+50 TO STA. 17+00
4.	LINE "B" : STA. 10+00 TO STA. 19+20
5.	LINE "C" : STA. 1+00 TO STA. 6+30
6.	SECTIONS AND DETAILS

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

JEFFREY G. MORTENSEN — NEW MEXICO — 8547 — REGISTERED PROFESSIONAL ENGINEER

Jeffrey G. Mortensen — Date 01-14-93
NMPE NO. 8547

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
Russell B. Hulse
DATE 3-12-93

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2 6 4 5 2 7 . 9 0 0 1 9 3

SCANNED BY
BY LASON

920571

GENERAL NOTES:

1. 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.

2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990, FOR LOCATION OF EXISTING UTILITIES.

3. 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 CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, 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.

4. 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.

5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.

6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.

7. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.

8. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.

9. TACK COAT REQUIREMENTS SHALL BE DETERMINED DURING CONSTRUCTION BY THE PROJECT ENGINEER.

10. SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.

11. IF CURB IS DEPRESSED FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.

12. ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.

13. CONTRACTOR SHALL COORDINATE WITH THE WATER SYSTEM DIVISION FOR THE EXECUTION OF THE VALVE SHUT OFF PLAN, NOT LESS THAN THREE (3) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT THE EXISTING PUBLIC WATER UTILITIES. ONLY WATER SYSTEM DIVISION PERSONNEL SHALL OPERATE EXISTING VALVES. REFER TO SECTION 18 OF THE SPECIFICATION.

14. 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 DONE ONLY BY THE ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE SPECIFICATIONS.

15. THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION CO-ORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE STANDARD SPECIFICATION FOR TRAFFIC CONTROL.

16. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET.

17. CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
1	1-6						

APPROVAL OF REVISIONS

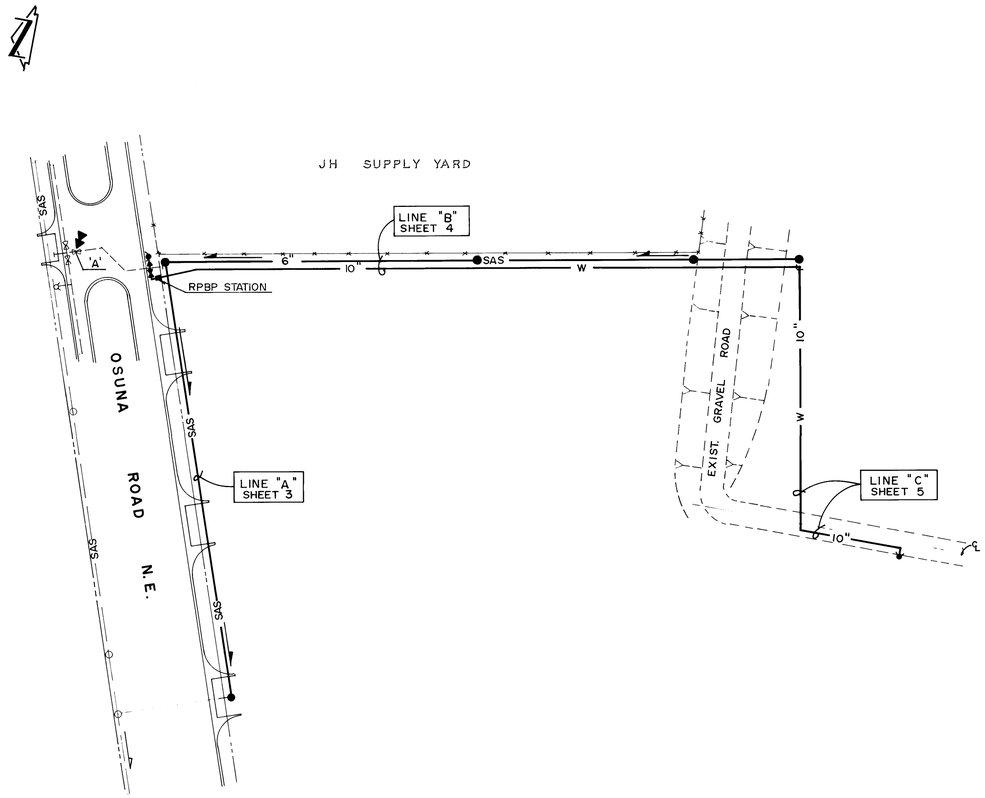
JEFFREY G. MORTENSEN — NEW MEXICO — 8547 — REGISTERED PROFESSIONAL ENGINEER
08-24-92

JMA — JEFF MORTENSEN & ASSOCIATES, INC. — 6400-B MONTAY PARK BLVD. NE — ALBUQUERQUE, NEW MEXICO 87109 — ENGINEERS SURVEYORS (505) 345-4250

4527.90

APPROVED FOR CONSTRUCTION
Russell B. Hulse
11-16-92 C.E.

SHEET 1 OF 6



SITE PLAN
SCALE : 1" = 100'

REFER TO SITE PLAN FOR VALVE LOCATIONS

WATER VALVE SHUTOFF PLAN REQUIREMENTS:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR TIMING AND COORDINATION OF THE WATER SHUT-OFF REQUIREMENTS IN CONJUNCTION WITH COMPLETION OF THIS PROJECT.

2. AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION, CONTRACTOR SHALL CONTACT PWD/WATER SYSTEMS DIVISION (857-8200) TO INITIATE IMPLEMENTATION OF THIS WATER SHUT-OFF PLAN.

3. TO COMPLETE THE NON-PRESSURE CONNECTION SHOWN HEREON, AS A MINIMUM THE EXISTING VALVES LISTED BELOW AND MARKED WITH AN ARROW (▲) ON THE ABOVE MAP MUST BE CLOSED BY PWD/WATER SYSTEMS PERSONNEL.
"A"

4. THE CONTRACTOR SHALL PROVIDE ALL RESTRAINTS AND THRUST BLOCKS NECESSARY TO EFFECT THE NECESSARY SHUTOFFS AND CONNECTIONS.

5. EXISTING WATER VALVE AND WATERLINE INFORMATION OBTAINED FROM CITY OF ALBUQUERQUE AUTOMATED WATER DISTRIBUTION SYSTEM SECTIONAL MAPS, PLATE E-16 AND AS BUILT MARKED-UP PLANS MADE AVAILABLE BY UTILITY DEVELOPMENT SECTION.

WATER VALVE SHUT-OFF PLAN

⚠1 RECORD DRAWING

26 4527.900293

SCANNED BY BY LASON

920571

AS BUILT INFORMATION
CONTRACTOR RUSS PITNEY
WORK STAKED BY M. CARNAHAN DATE 12/92
INSPECTIONS
ACCEPTANCE BY G.M. DATE 1/93
FIELD DRAWINGS
VERIFICATION BY G.M. DATE 1/93
DRAWINGS CORRECTED BY J.M.A. DATE 1/93
MICRO-FILM INFORMATION
RECORDED BY
DATE
NO.

BENCH MARKS
A 40-PENNY NAIL IN AN ELECTRIC POWER POLE LOCATED ALONG AN ELECTRIC X-MISSION 75 FEET SOUTH OF THE CENTERLINE OF OSUNA ROAD N.E. @ 0.30 MILES WEST OF THE CROSSING OF THE NORTH DIVERSION CHANNEL.
ELEVATION = 5067.83 FEET (M.S.L.D.)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
—	WESTERN MOBILE	7-24-92

ENGINEER'S SEAL
JEFFREY G. MORTENSEN NEW MEXICO 8647 REGISTERED PROFESSIONAL ENGINEER
CE. 2492

NO.	DATE	REMARKS	BY
△1	1/93	RECORD DRAWING	G.M.

REVISIONS
DESIGN
DESIGNED BY JGM DATE 7-1992
DRAWN BY SGH DATE 7-1992
CHECKED BY JGM DATE 7-1992

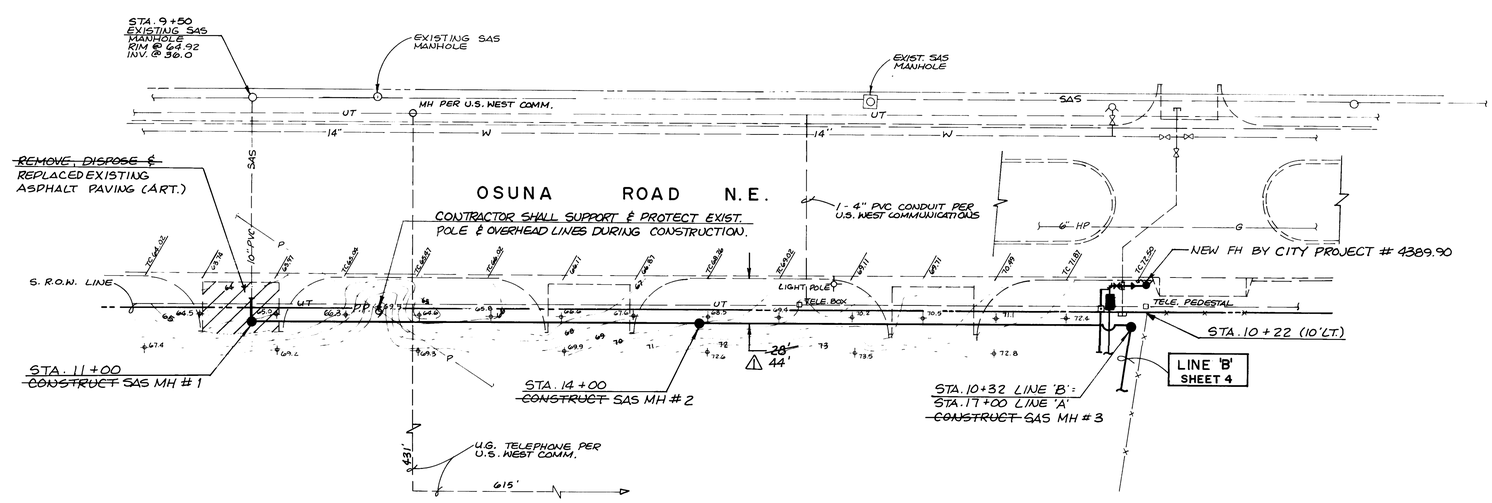
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: WESTERN MOBILE / FERRERI CONCRETE STRUCTURES
WATER & SANITARY SEWER SERVICES
SITE PLAN / WATER VALVE SHUT-OFF PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Roger D. Brown	10-16-92	WATER		
TRANSPORTATION		10-12-92	WASTE WATER	S. Seeder	10/15/92
HYDROLOGY	N/A SAB	10-13-92	CODE ADMIN.		10/7/92

PROJECT NO.	MAP NO.	SHEET	OF
4527.90	E-16	2	6

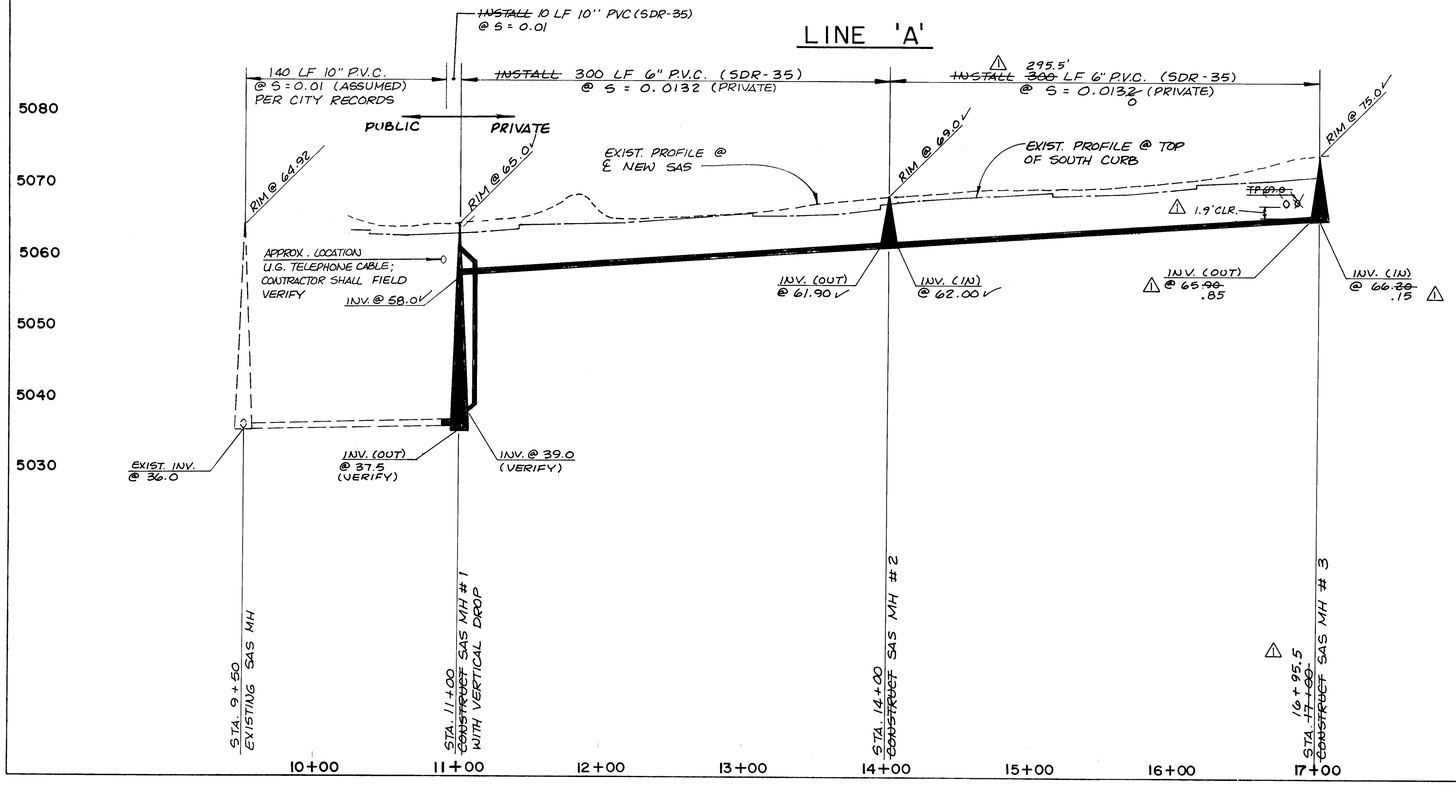
141507



RECORD DRAWING

LINE 'A'

SCALE :
1" = 50' HORIZONTAL
1" = 10' VERTICAL



SANITARY SEWER SYSTEM:

1. ALL STATIONING IS BASED ON SANITARY SEWER CENTERLINE.
2. ALL SEWER PIPE SHALL BE PVC (SDR 35) OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
3. SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
4. ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE "E" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2101 UNLESS OTHERWISE NOTED.
5. SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS (EMD) AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
6. WHERE VERTICAL SEPARATION BETWEEN WATER AND SANITARY SEWER (SAS) LINES IS LESS THAN 18 INCHES, CONTRACTOR SHALL CONCRETE ENCASE SAS 10' EACH SIDE OF CROSSING.
7. WHERE CONCRETE ENCASED SAS IS SPECIFIED, CONTRACTOR MAY SUBSTITUTE PRESSURE CLASS PIPE EXTENDING MANHOLE TO MANHOLE.
8. CONTRACTOR SHALL PROVIDE TRENCH/EXCAVATION DESIGN BY A NEW MEXICO REGISTERED PROFESSIONAL ENGINEER IN ACCORDANCE WITH OSHA REQUIREMENTS AND GUIDELINES FOR ALL EXCAVATIONS GREATER THAN 20' IN DEPTH.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE MEANS AND METHODS TO EXCAVATE AND TRENCH AND INSTALL PIPE SO AS TO NOT EXCEED RIGHT-OF-WAY OR EASEMENT LIMITS, AND SO AS NOT TO INTERFERE WITH OTHER UTILITIES. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

RECORD DRAWING

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Jeffrey G. Mortensen
NMPE NO. 8547

Date 1-14-93

JEFFREY G. MORTENSEN REGISTERED PROFESSIONAL ENGINEER NEW MEXICO 8547

NO	DATE	REMARKS	BY
1	1/93	AS-BUILT REVISIONS	G.M.

		DATE
DESIGNED BY	JGM	7-1992
DRAWN BY	SGH	7-1992
CHECKED BY	JGM	7-1992

SURVEY INFORMATION

NO	FIELD NOTES BY	DATE
—	WESTERN MOBILE	7-24-92

AS BUILT INFORMATION

		DATE
AS BUILT INTRACTION	RUSS PITNEY	
AS BUILT INSPECTOR	M. CARNAHAN	12/92
AS BUILT DANCE BY	G.M.	1/93
FIELD VERIFICATION BY	G.M.	1/93
DRAWINGS CORRECTED BY	J.M.A.	1/93
MICRO-FILM INFORMATION RECORDED BY		DATE
	NO	

BENCH MARKS

A 40-PENNY NAIL IN AN ELECTRIC POWER POLE LOCATED ALONG AN ELECTRIC X-MISSION 75 FEET SOUTH OF THE CENTERLINE OF OSUNA ROAD N.E. & 0.30 MILES WEST OF THE CROSSING OF THE NORTH DIVERSION CHANNEL.

ELEVATION = 5067.83 FEET (M.S.L.D.)

ENGINEER'S SEAL

JEFFREY G. MORTENSEN REGISTERED PROFESSIONAL ENGINEER NEW MEXICO 8547

08-27-92

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

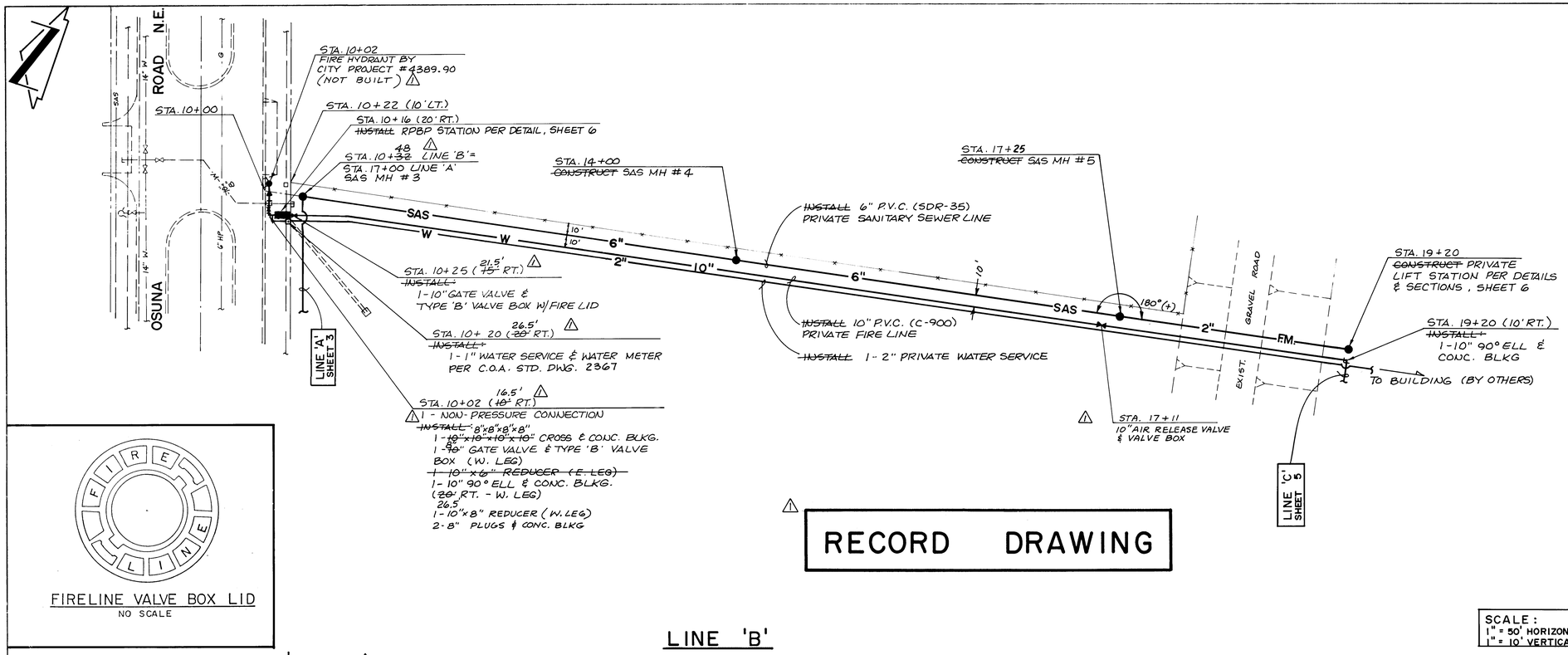
TITLE WESTERN MOBILE/FERRERI CONCRETE STRUCTURES
WATER & SANITARY SEWER SERVICES
LINE 'A' STA. 9+50 TO STA. 17+00

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Rose Ann Olson	10-16-92	WATER	G S Reeder	10/19/92
TRANSPORTATION	[illegible]	10-12-92	WASTE WATER		
HYDROLOGY	N/A SAB	10-13-92	CODE ADMIN.	[illegible]	10/16/92

PROJECT NO.	MAP NO.	SHEET	OF
4527.90	E-16	3	6

SCANNED BY
BY LASON

920571

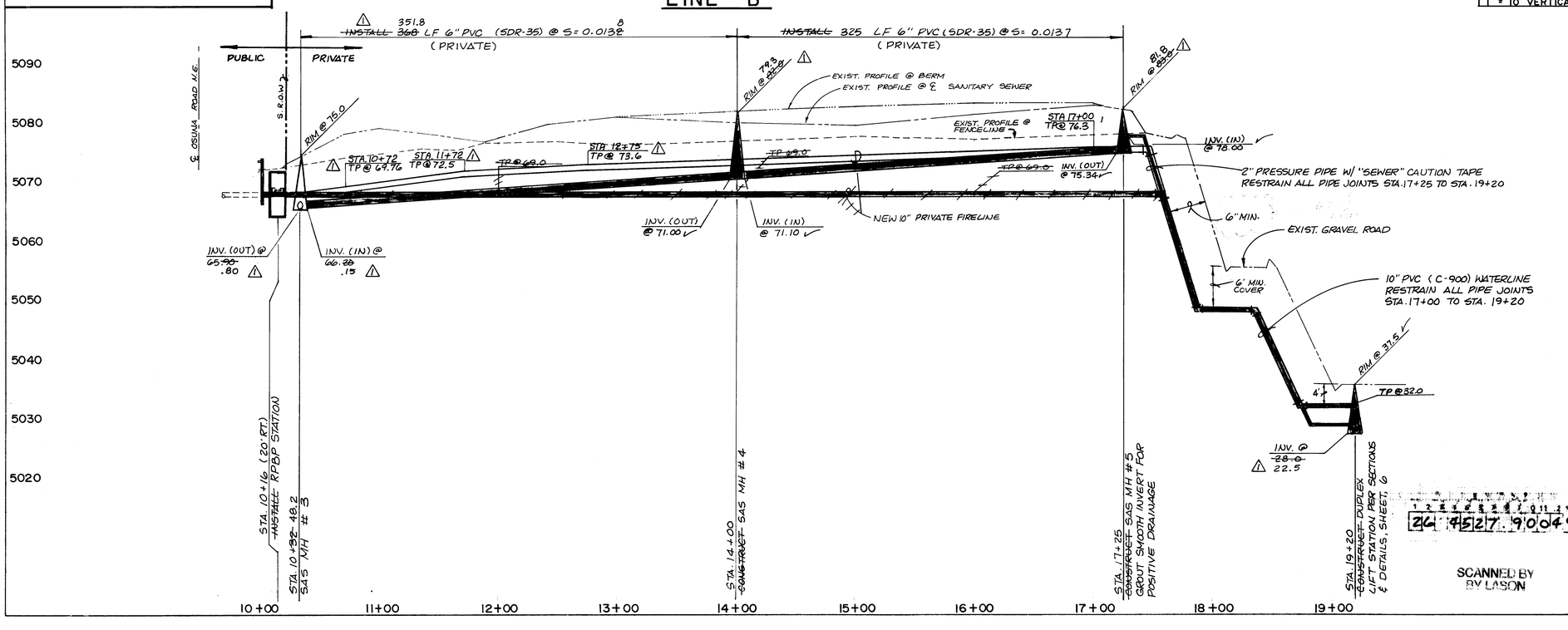


FIRELINE VALVE BOX LID
NO SCALE

RECORD DRAWING

LINE 'B'

SCALE:
1" = 50' HORIZONTAL
1" = 10' VERTICAL



920571

SANITARY SEWER SYSTEM:

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2. ALL SEWER PIPE SHALL BE PVC (SDR 35) OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC.
3. SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
4. ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE "E" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2101 UNLESS OTHERWISE NOTED.
5. SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS (EMD) AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
6. WHERE VERTICAL SEPARATION BETWEEN WATER AND SANITARY SEWER (SAS) LINES IS LESS THAN 18 INCHES, CONTRACTOR SHALL CONCRETE ENCASE SAS 10' EACH SIDE OF CROSSING.
7. WHERE CONCRETE ENCASED SAS IS SPECIFIED, CONTRACTOR MAY SUBSTITUTE PRESSURE CLASS PIPE EXTENDING MANHOLE TO MANHOLE.

WATER DISTRIBUTION SYSTEM:

1. ALL STATIONING IS BASED ON SANITARY SEWER CENTERLINE.
2. FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. FOR ALL LINES 12" AND LARGER, WATER MAIN SHALL BE CONCRETE CYLINDER OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC AND CONCRETE CYLINDER.
3. WATER MAIN SHALL HAVE A MINIMUM COVER OF 3'0", UNLESS OTHERWISE NOTED.
4. ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
5. IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
6. VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
7. JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey G. Mortensen
NMPE No. 8547

01-14-93
Date

JEFFREY G. MORTENSEN
NEW MEXICO
8547
REGISTERED PROFESSIONAL ENGINEER

NO	DATE	REMARKS	BY
1	1/93	AS-BUILT REVISIONS DESIGN	G.M.

DESIGNED BY JGM DATE 7-1992
DRAWN BY SGH DATE 7-1992
CHECKED BY JGM DATE 7-1992

AS BUILT INFORMATION
CONTRACTOR ROSS PITNEY
WORK STAKED BY M. CARNAHAN DATE 12/92
INSPECTOR ACCEPTANCE BY G.M. DATE 1/93
FIELD VERIFICATION BY G.M. DATE 1/93
DRAWINGS CORRECTED BY J.M.A. DATE 1/93
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
A 40-PENNY NAIL IN AN ELECTRIC POWER POLE LOCATED ALONG AN ELECTRIC X-MISSION 75 FEET SOUTH OF THE CENTERLINE OF OSUNA ROAD N.E. & 0.30 MILES WEST OF THE CROSSING OF THE NORTH DIVERSION CHANNEL.
ELEVATION = 5067.83 FEET (M.S.L.D.)

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE
—	WESTERN MOBILE	7-24-92

ENGINEER'S SEAL
JEFFREY G. MORTENSEN
NEW MEXICO
8547
REGISTERED PROFESSIONAL ENGINEER
8-24-92

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

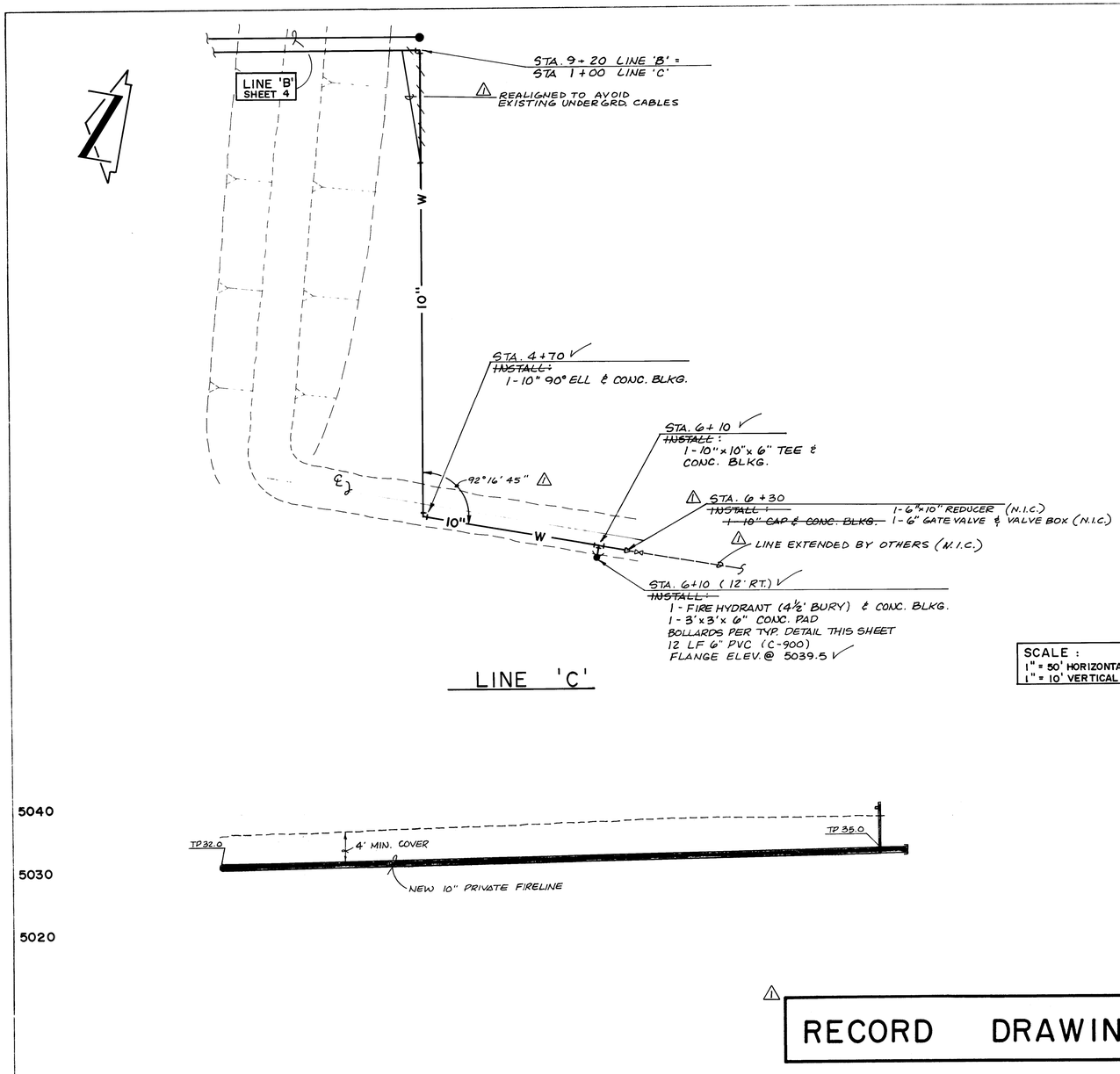
TITLE WESTERN MOBILE / FERRERI CONCRETE STRUCTURES
WATER & SANITARY SEWER SERVICES
LINE "B" STA. 10+00 TO STA. 19+20

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	Roger Adams	10-16-92	WATER		
TRANSPORTATION	N/A RCH	10-12-92	WASTE WATER		10/23/92
HYDROLOGY	N/A SAB	10-13-92	CODE ADMIN.		

PROJECT NO. 4527.90 | MAP NO. E-16 | SHEET 4 OF 6

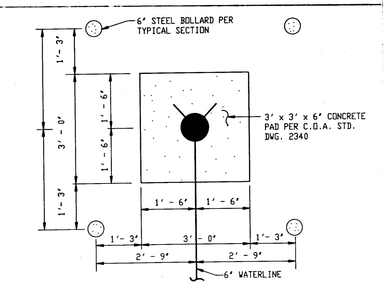
26 4527.90 0049 3

SCANNED BY
BY LASON



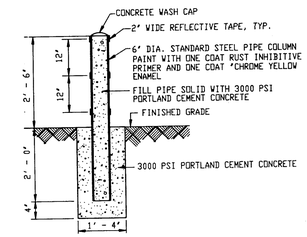
LINE 'C'

SCALE :
1" = 50' HORIZONTAL
1" = 10' VERTICAL



FIRE HYDRANT BOLLARD DETAIL

SCALE: 1" = 2'-0"



TYPICAL BOLLARD SECTION

SCALE: 1" = 2'-0"

WATER DISTRIBUTION SYSTEM:

1. ALL STATIONING IS BASED ON SANITARY SEWER CENTERLINE.
2. FOR ALL LINES 12" AND SMALLER, WATER MAIN SHALL BE PVC C-900 PIPE OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. FOR ALL LINES 12" AND LARGER, WATER MAIN SHALL BE CONCRETE CYLINDER OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. DUCTILE IRON IS AN ACCEPTABLE PIPE MATERIAL IN LIEU OF PVC AND CONCRETE CYLINDER.
3. WATER MAIN SHALL HAVE A MINIMUM COVER OF 3'0", UNLESS OTHERWISE NOTED.
4. ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
5. IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
6. VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF EACH EXTENSION SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
7. JOINT RESTRAINT SHALL BE CONSIDERED INCIDENTAL TO WATERLINE CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.

RECORD DRAWING

I, Jeffrey G. Mortensen, Registered Professional Engineer in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.

Jeffrey G. Mortensen
NMPE No. 8547

10-14-93
Date

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER

RECORD DRAWING

26 4527 9005 93

SCANNED BY BY LASON

920571

AS BUILT INFORMATION

NOTES	RUSS PITNEY	DATE 12/92
DRAWN BY	M. CARNAHAN	DATE 1/93
CHECKED BY	G.M.	DATE 1/93
ELECTRONIC VALVES	G.M.	DATE 1/93
CORRECTED BY	J.M.A.	DATE 1/93
MICRO. FILM	INFORMATION	DATE

BENCH MARK

A 40-PENNY NAIL IN AN ELECTRIC POWER POLE LOCATED ALONG AN ELECTRIC X-MISSION 75 FEET SOUTH OF THE CENTERLINE OF OSUNA ROAD N.E. & 0.30 MILES WEST OF THE CROSSING OF THE NORTH DIVERSION CHANNEL.

ELEVATION = 5067.83 FEET (M.S.L.D.)

SURVEY INFORMATION

NO	FIELD NOTES BY	DATE
	WESTERN MOBILE	7-24-92

ENGINEER'S SEAL

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER

08-24-92

NO	DATE	REMARKS	BY
1	1/93	AS-BUILT	G.M.

REVISIONS

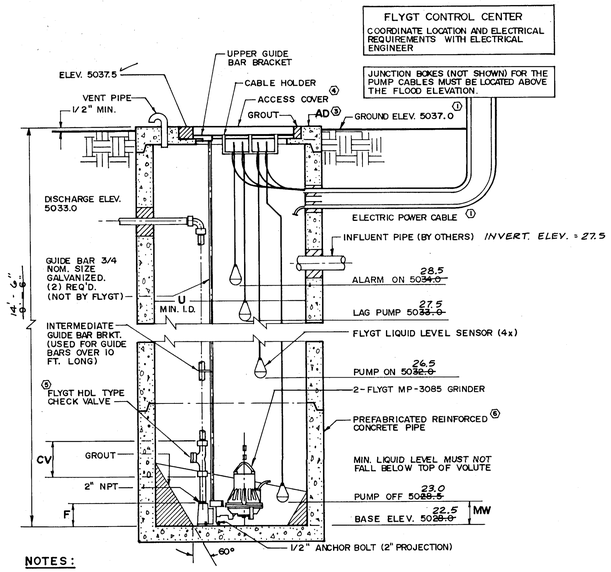
		DATE
DESIGN	JGM	7-1992
DRAWN BY	SGH	7-1992
REVIEWED BY	JGM	7-1992

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE WESTERN MOBILE / FERRERI CONCRETE STRUCTURES
WATER & SANITARY SEWER SERVICES
LINE "C" STA. 1+00 TO STA. 6+30

CITY ENGINEER		DATE	OTHER		DATE
HYDROLOGY	Roger Green	10-16-92	WATER	—	
TRANSPORTATION	N/A RHD	10-12-92	WASTE WATER	G Reecker	10/05/92
PARKS & RECREATION	N/A SAB	10-13-92	CODE ADMIN.		

PROJECT NO.	MAP NO.	SHEET	OF
4527.90	E-16	5	6



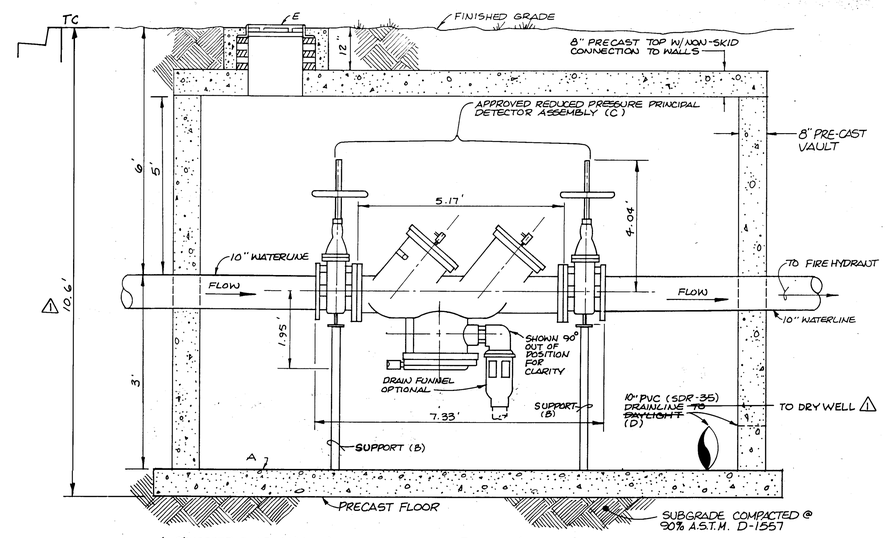
NOTES:

1. INDICATES INFORMATION TO BE DETERMINED BY OTHERS.
2. LOCATE ANCHOR BOLTS USING CLEAR INSIDE EDGE OF ACCESS FRAME AND CENTER LINE OF PUMP AS REF. POINT.
3. GROUT OPENING FOR ACCESS FRAME.
4. HEAVY DUTY ACCESS COVER AVAILABLE FROM FLYGT.
5. CONFIGURATION AND DIMS. SHOWN ARE MIN REQUIREMENTS ONLY. ALL DETAILS, INCLUDING SIZING OF PIT, TYPE, LOCATION AND ARRANGEMENT OF VALVES AND PIPING, ETC. ARE TO BE REVIEWED BY THE ENGINEER AND ARE SUBJECT TO HIS APPROVAL.
6. CONTRACTOR MAY SUBSTITUTE 6' DIA. TYPE 'C' MANHOLE PER C.O.A. STD. DWG. 2101.

LIFT STATION SECTION

N.T.S.

RECORD DRAWING



A. CONCRETE SLAB (8" MIN.)
B. METALLIC OR P.R.C.C. SUPPORT
C. APPROVED REDUCED PRESSURE PRINCIPLE DETECTOR ASSEMBLY.
D. DRAIN (10" DIA.)
E. 2' DIA. MANHOLE RING, COVER & SPACERS PER C.O.A. STD. DWG. 2110

REDUCED PRESSURE PRINCIPAL DETECTOR ASSEMBLY

NO SCALE

RECORD DRAWING

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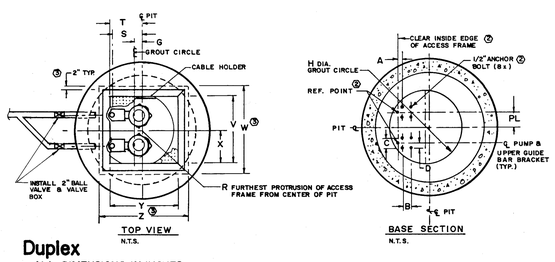
Jeffrey G. Mortensen
NMPE NO. 8547

01-14-93
Date

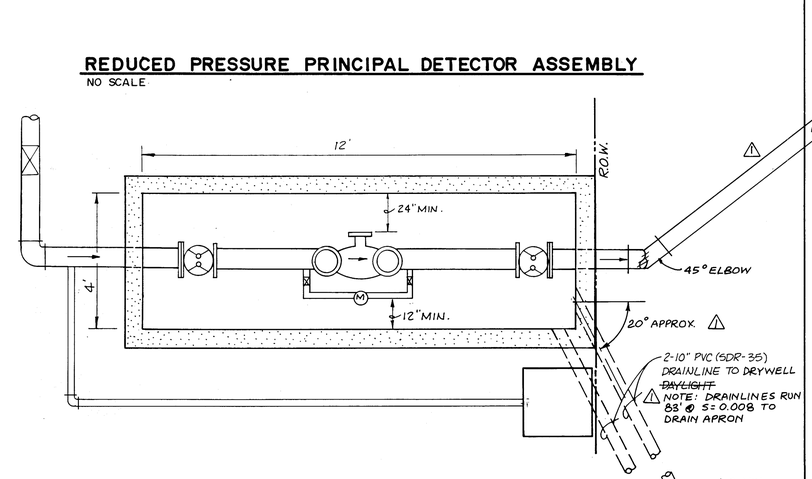
JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER



Duplex

ALL DIMENSIONS IN INCHES

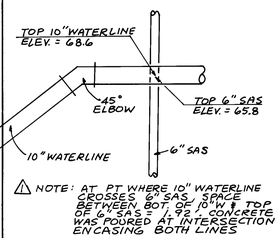
DIMENSIONAL CHART																							
NOM. SIZE	VERSION	STATION														COVER							
		A	B	C	D	F	G	H	R	S	T	U	CV	MW	PL	SIZE	V	W	X	Y	Z	AD
2"	HH	1 1/4	3 15/16	4 1/2	2 1/4	6 5/8	4	30	27	12 3/8	12 3/8	60	8 5/8	6	8	8	30	40	15	30	40	4 5/8



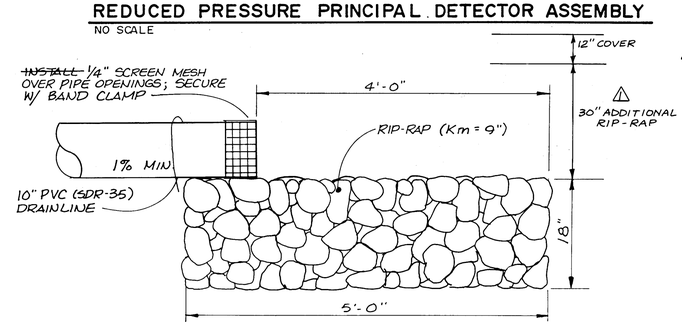
PLAN

REDUCED PRESSURE PRINCIPAL DETECTOR ASSEMBLY

NO SCALE



NOTE: AT PT WHERE 10" WATERLINE CROSSES 6" SAS, SPACE BETWEEN BOT. OF 10" W & TOP OF 6" SAS = 1/2' - CONCRETE WAS POURED AT INTERSECTION ENCASING BOTH LINES



SECTION A-A

NO SCALE

920571

SCANNED BY BY LASON

26 4527.90 0161 93

AS BUILT INFORMATION	
CONTRACTOR	RUSS PITNEY
WORK STAKED BY	M. CARNAHAN DATE 12/92
INSPECTOR	
ACCEPTANCE BY	G.M. DATE 1/93
FIELD VERIFICATION BY	G.M. DATE 1/93
DRAWINGS CORRECTED BY	J.M.R. DATE 1/93
RECORDED BY	MICRO-FILM INFORMATION DATE
NO	

BENCH MARKS
A 40-PENNY NAIL IN AN ELECTRIC POWER POLE LOCATED ALONG AN ELECTRIC X-MISSION 75 FEET SOUTH OF THE CENTERLINE OF OSUNA ROAD N.E. & 0.30 MILES WEST OF THE CROSSING OF THE NORTH DIVERSION CHANNEL.
ELEVATION = 5067.83 FEET (M.S.L.D.)

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE
—	WESTERN MOBILE	7-24-92

ENGINEER'S SEAL

JEFFREY G. MORTENSEN NEW MEXICO 8547 REGISTERED PROFESSIONAL ENGINEER

07-24-92

NO.	DATE	REMARKS	BY
△1	1/93	AS-BUILT	G.M.

REVISIONS

DESIGNED BY	JGM	DATE 7-1992
DRAWN BY	SGH	DATE 7-1992
CHECKED BY	JGM	DATE 7-1992

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: WESTERN MOBILE / FERRERI CONCRETE STRUCTURES
WATER & SANITARY SEWER SERVICES
SECTIONS AND DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN		10-16-92	WATER		10/15/92
TRANSPORTATION		10-13-92	WASTE WATER		
HYDROLOGY	N/A SAB	10-13-92	CODE ADMIN.		

PROJECT NO.	MAP NO.	SHEET	OF
4527.90	E-16	6	6