

# LEGEND

## MATERIALS

CONCRETE  
RIP-RAP

## LINES

SUBDIVISION BOUNDARY  
PROPERTY LINE (PLAN)  
PROPERTY LINE (SECTION)  
CENTERLINE  
EASEMENT LINE  
MATCH LINE  
SECTION CUT LINE

## EARTHWORK

CONTOUR LINE  
SPOT ELEVATION  
PROJECT / PHASE BOUNDARY  
SWALE  
DIRECTION OF FLOW

## MISCELLANEOUS UTILITIES

GAS LINE  
UNDERGROUND TELEPHONE  
UNDERGROUND ELECTRICAL  
STORM DRAIN  
STORM DRAIN MANHOLE  
STORM DRAIN INLET

## SANITARY SEWER

SANITARY SEWER LINE  
SANITARY SEWER MANHOLE  
SAS SERVICE CONNECTIONS  
SAS CAP OR PLUG  
ENCASEMENT  
WATER LINE  
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

# CONSTRUCTION PLANS

for

# WATER & SANITARY SEWER EXTENSIONS

to

## TRACT 3

## SCHWARTZMAN INDUSTRIAL

## PARK - UNIT I

BERNALILLO COUNTY, NEW MEXICO

JANUARY, 1992

## RECORD DRAWING

### INDEX OF DRAWINGS

- COVER SHEET, INDEX OF DRAWINGS, VICINITY MAP, GENERAL NOTES & LEGEND
- FINAL PLAT
- FINAL PLAT & MANHOLE CONNECTION SECTION
- GRADING PLAN (FOR INFORMATION)
- SITE PLAN & DATA, SECTIONS & DETAILS
- WATER & SANITARY SEWER EXTENSIONS PLAN & PROFILE
- RIO BRAVO BOULEVARD STA. 9+97.2 TO STA. 20+75
- RIO BRAVO BOULEVARD STA. 20+75 TO STA. 32+43.50
- KING ROAD STA. 10+00 TO STA. 20+67
- KING ROAD STA. 20+67 TO STA. 24+34.19  
PRINCE STREET STA. 6+97 TO STA. 11+33
- TRAFFIC CONTROL 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.

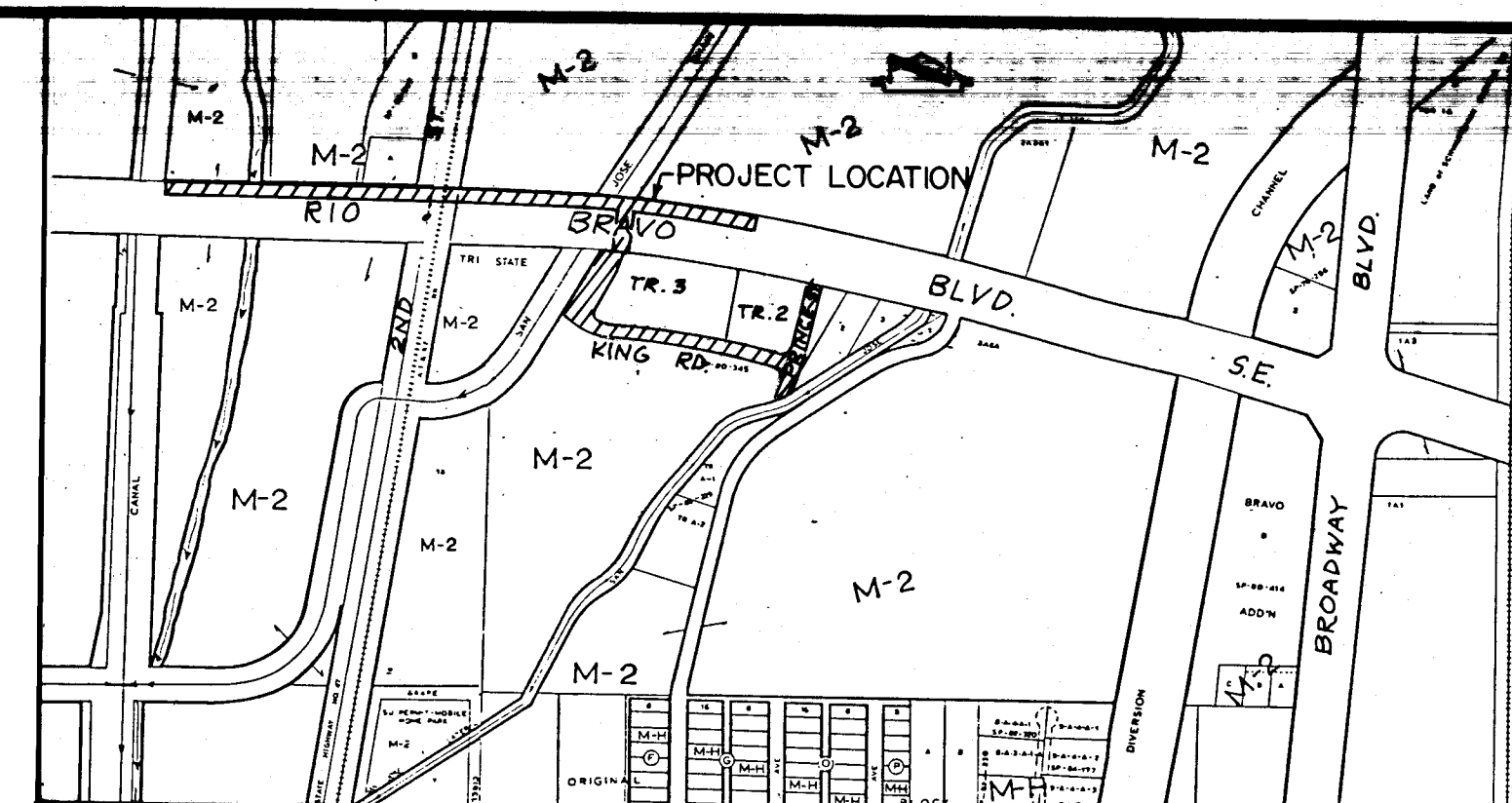
Jeffrey G. Mortensen  
Professional Engineer  
New Mexico  
License No. 8547  
Date 10-18-92

SCANNED BY LASON

APPROVAL OF AS-BUILT DRAWINGS  
DATE 10-18-92

26 19397.900192

910541



VICINITY MAP  
SCALE: 1"=800' (APPROX.)

### 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 NEW MEXICO ONE CALL SYSTEM, 260-1990, 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 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.
- 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.
- 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 DURING CONSTRUCTION BY THE PROJECT ENGINEER.
- SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- IF CURB IS DEEPENED 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 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.
- 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.
- CONTRACTOR SHALL COORDINATE ALL CONSTRUCTION ACTIVITIES AND SCHEDULES WITH THE NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPT. (NMSHTD) AND THE BERNALILLO COUNTY PUBLIC WORKS DEPT. (BCPWD).
- 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.
- CONTRACTOR SHALL SECURE AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
- ALL BACKFILL AND COMPACTION WITHIN COUNTY RIGHT-OF-WAY AND/OR EASEMENT SHALL BE 95% ASTM D-1557 FOR THE FULL DEPTH OF TRENCH PER COUNTY STANDARD DRAWING 2465.
- THIS PROJECT IS TO BE CONSTRUCTED UNDER, AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE MASTER UTILITY EASEMENT AND RIGHT-OF-WAY AGREEMENT ENTERED INTO BETWEEN THE COUNTY OF BERNALILLO AND THE CITY OF ALBUQUERQUE, EFFECTIVE DATE 8/20/90.

REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
1-10	5, 8						

### APPROVAL OF REVISIONS

		APPROVED FOR CONSTRUCTION
	PROJECT NO: <b>4397.90</b>	SHEET 1 OF 10

### CAUTION:

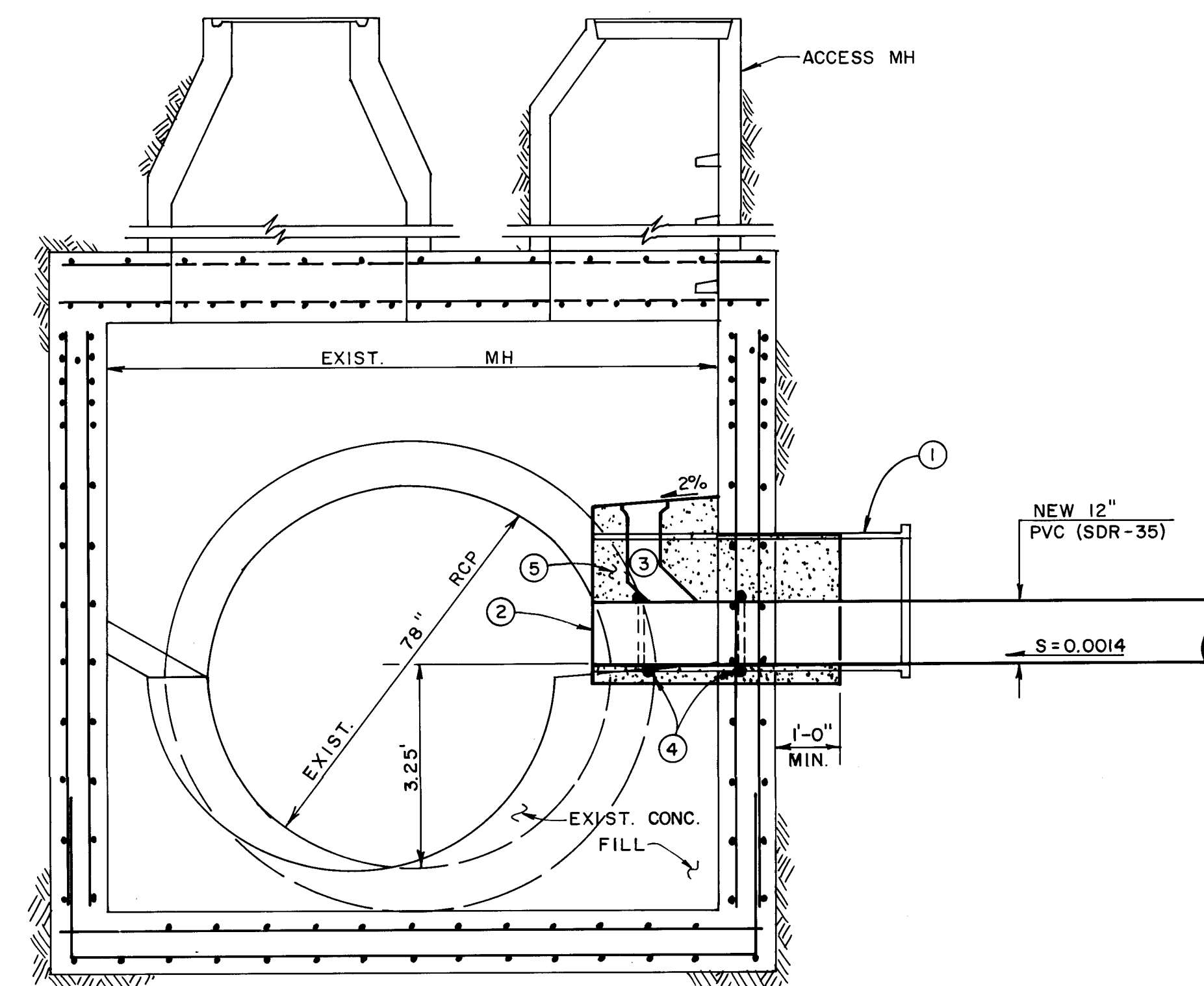
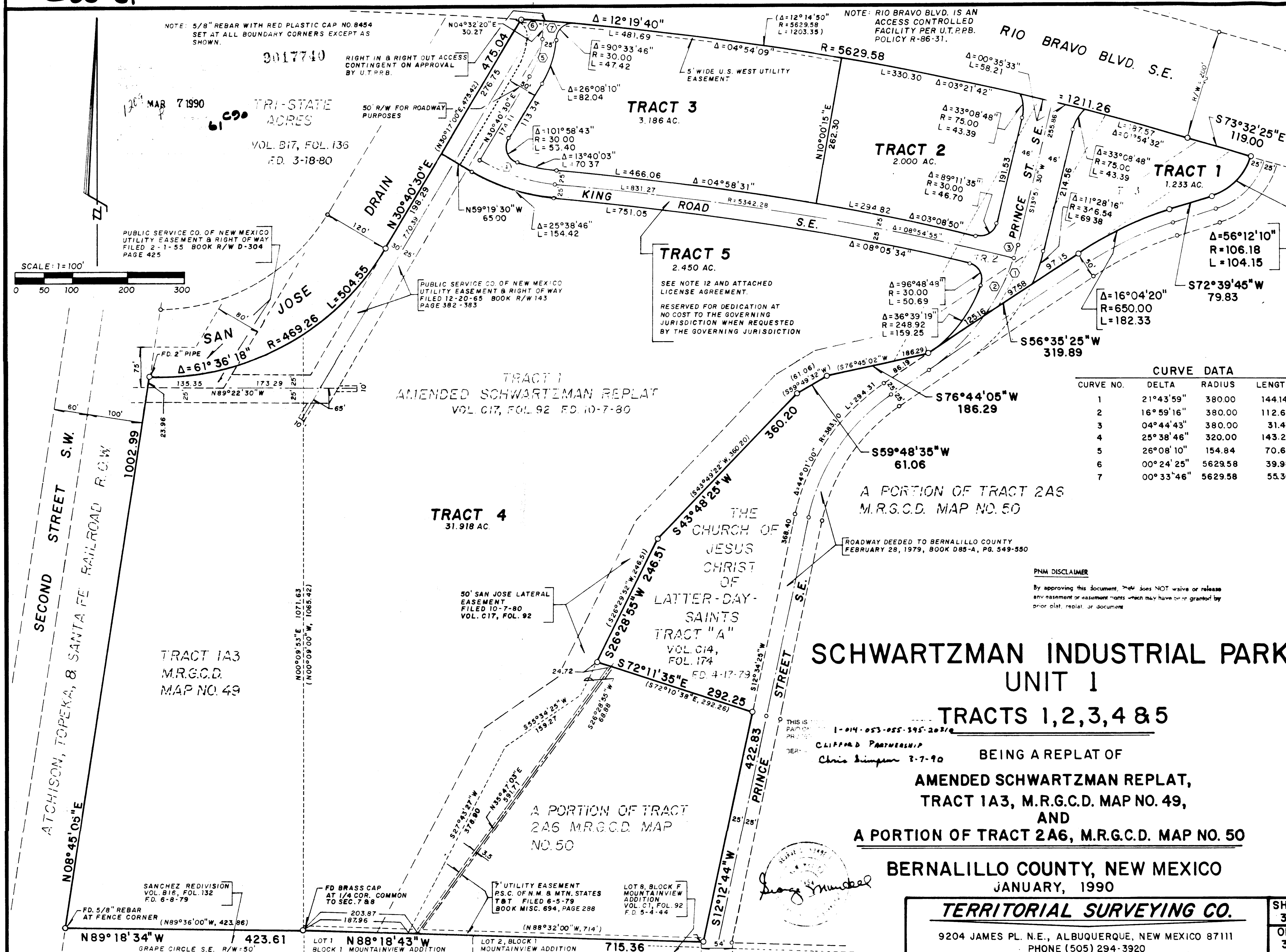
THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.

Con-92-3 910541





C90-61



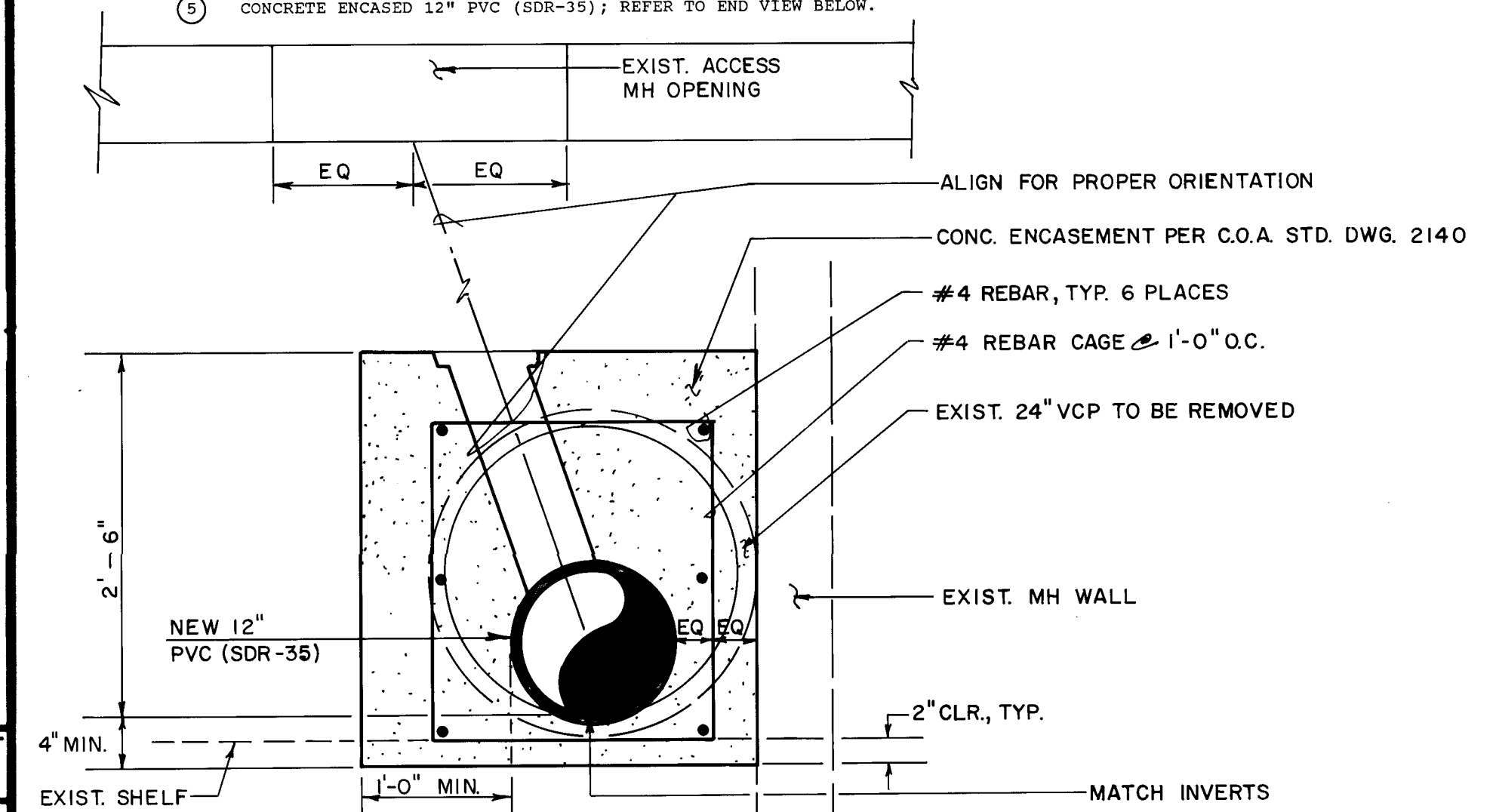
MANHOLE CONNECTION SECTION

SCALE: 1" = 2'-0"

NOTE:  
EXISTING MANHOLE INFORMATION OBTAINED FROM  
CITY RECORDS ( SOUTH SECOND STREET INTERCEPTOR-  
PHASE I ); ACTUAL FIELD CONDITIONS MAY VARY.

KEYED NOTES:

- ① REMOVE AND DISPOSE OF EXISTING 24" VCP STUB.
- ② CENTER NEW 12" PVC (SDR-35) PIPE IN OPENING; EXTEND NEW PIPE TO MEET EDGE OF EXISTING 78" RCP AT SPRINGLINE.
- ③ INSTALL 12" X 6" WYE AND 6" PVC (SDR-35) RISER; ROTATE TO PROVIDE ENTRY FROM ACCESS MANHOLE ABOVE.
- ④ INSTALL TWO O-RING WATERSTOPS AROUND NEW 12" PVC (SDR-35) WITHIN CONCRETE ENCASEMENT.
- ⑤ CONCRETE ENCASED 12" PVC (SDR-35); REFER TO END VIEW BELOW.



END VIEW

SCALE: 1" = 1'-0"

## 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

RECORD      DRAWING

FINAL PLAT & MANHOLE CONNECTION SECTION

TRACT 3, SCHWARTZMAN INDUSTRIAL PARK - UNIT 1

C90-61

26 4347.900392

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: TRACT 3, SCHWARTZMAN INDUSTRIAL  
PARK - UNIT 1

FINAL PLAT & MANHOLE CONNECTION SECTION

APPROVALS			CONSTRUCTION SECTION		
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>Roger Williams</i>	3/12/92	WATER	<i>NLO</i>	2-26-92
TRANSPORTATION	<i>N/A</i>		WASTE WATER	<i>NLO</i>	"
HYDROLOGY	<i>N/A</i>		BCPWD	<i>Earl</i>	3/6/92

SCANNED BY  
BY LASON

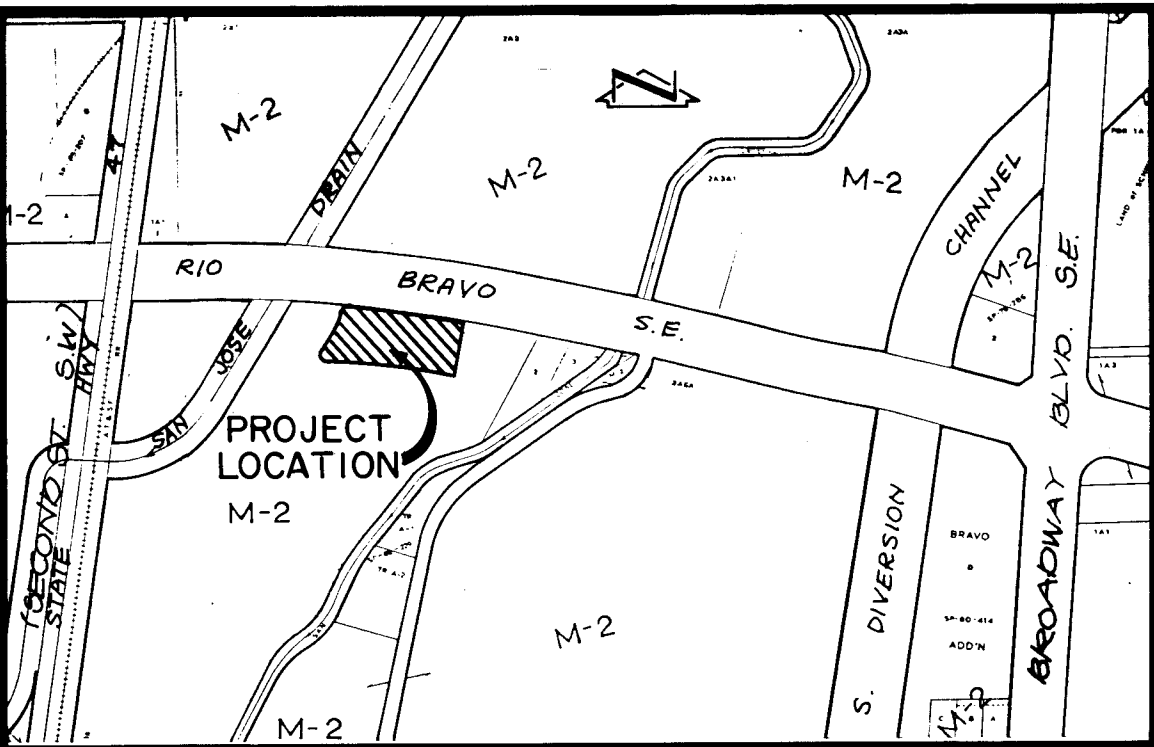
MAP NO. <b>P 14</b>	PROJ. NO. <b>4397.90</b>
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JOB NO. 910541

DATE 01 - 92

SHEET 3 OF 10

**Jma** **JEFF MORTENSEN & ASSOCIATES, INC.**  
6010-B MIDWAY PARK BLVD. N.E.  
ALBUQUERQUE, NEW MEXICO 87109  
ENGINEERS & SURVEYORS (505)345-4250



VICINITY MAP  
SCALE: 1" = 800' (APPROX)

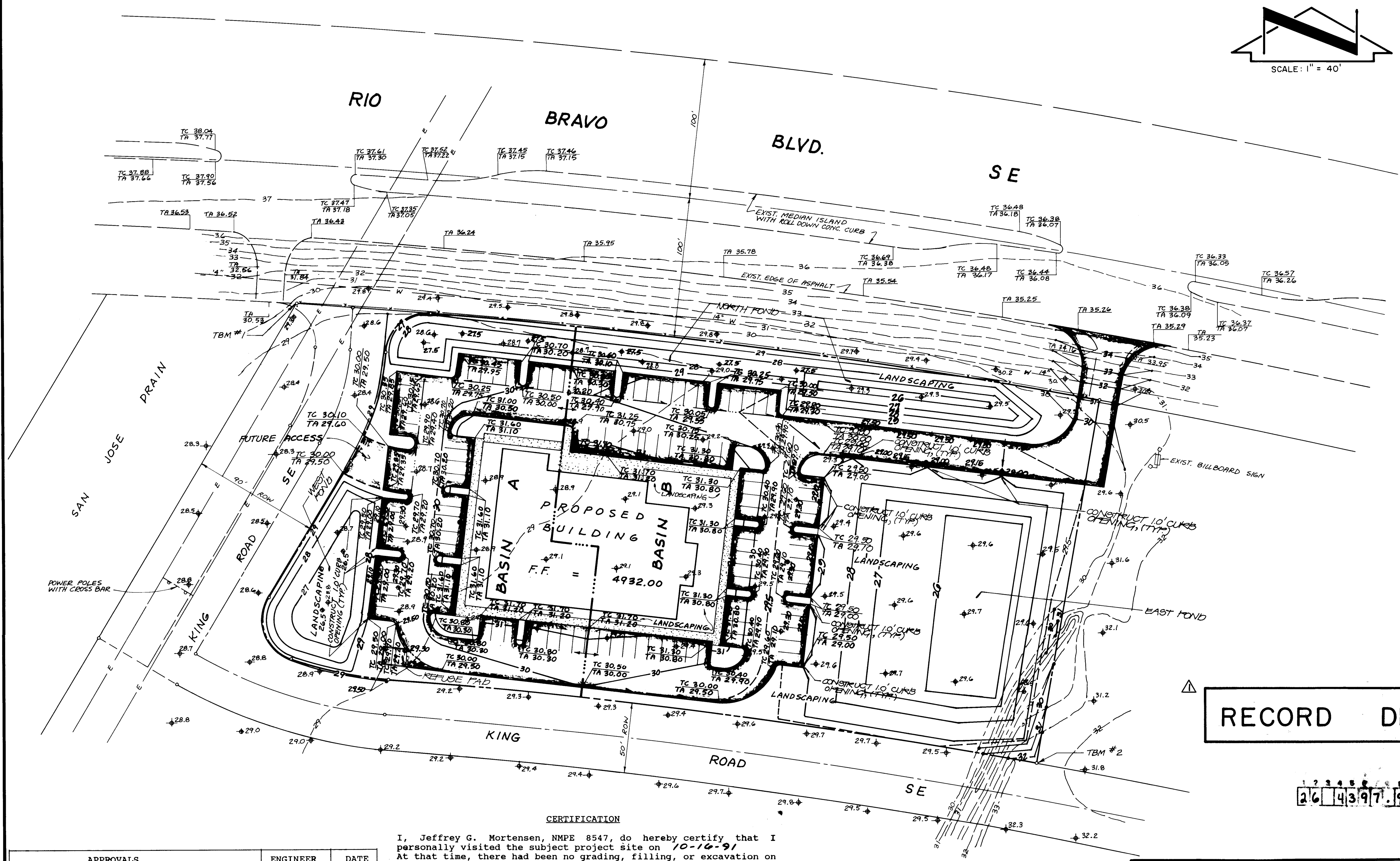
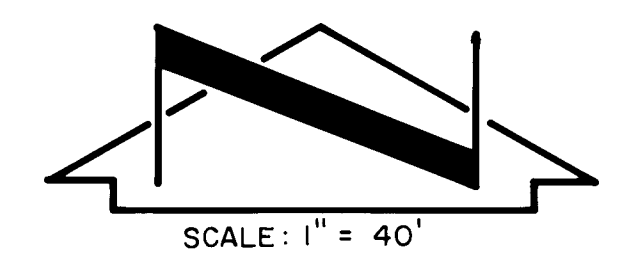
**PROJECT BENCHMARK:**  
CITY OF ALBUQUERQUE, STATION X-423, TOP OF A STAINLESS STEEL ROD SET BENEATH A VES ACCESS COVER. BENCHMARK LOCATED SE OF THE INTERSECTION OF R.T. 1 S.E. RAILROAD AND RIO BRAVO BLVD. SE, BEING 44.1 FT. EAST OF THE CENTERLINE OF THE TRACKS, 14.8 FT. SOUTH OF CENTERLINE OF RIO BRAVO BLVD., 2.3 FT. SOUTH OF A POWER POLE, 6.1 FT. WNW OF A FIRE HYDRANT. ELEVATION = 4928.15 FEET (M.S.L.D.)

**TBM #1:**  
TOP OF REBAR W/CAP # 8454. ELEVATION = 4929.78 FEET (M.S.L.D.)

**TBM #2:**  
TOP OF REBAR W/CAP # 8454. ELEVATION = 4932.37 FEET (M.S.L.D.)

**LEGAL DESCRIPTION:**  
SCHWARTZMAN INDUSTRIAL PARK, UNIT 1, TRACT 3, BERNALILLO COUNTY, NEW MEXICO.

- LEGEND**
- 29 — EXISTING CONTOUR
  - 30 — EXISTING SPOT ELEVATION
  - X — EXISTING FIELD FENCE
  - W — EXISTING WATERLINE
  - E — EXISTING OVERHEAD ELECTRIC
  - TC — TOP OF CURB
  - TA — TOP OF ASPHALT
  - — DRAINAGE BASIN BOUNDARY
  - 30 — PROPOSED CONTOUR
  - 30 — PROPOSED SPOT ELEVATION
  - — PROPOSED FLOWLINE
  - — PROPOSED DIRECTION OF RUNOFF
  - — HIGH POINT

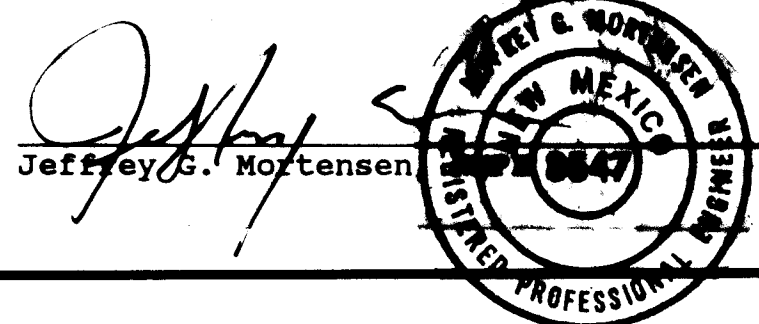


RECORD DRAWING

26 43 97 190 04 92

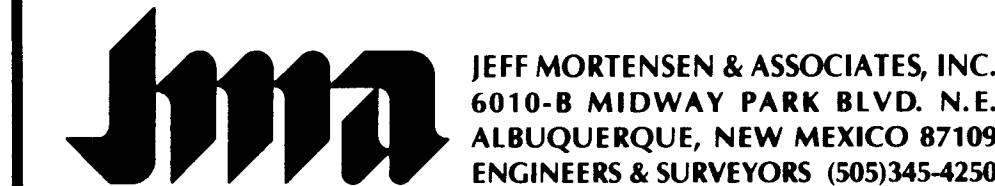
**CERTIFICATION**

I, Jeffrey G. Mortensen, NMPE 8547, do hereby certify that I personally visited the subject project site on 10-16-91. At that time, there had been no grading, filling, or excavation on the site.



12-23-91  
Date

APPROVALS	ENGINEER	DATE
CITY/COUNTY FLOODPLAIN ADMINISTRATOR		
BERNALILLO COUNTY PUBLIC WORKS DEPARTMENT		
AMAFCA		



JEFF MORTENSEN & ASSOCIATES, INC.  
6010-B MIDWAY PARK BLVD. N.E.  
ALBUQUERQUE, NEW MEXICO 87109  
ENGINEERS & SURVEYORS (505)345-4250

GRADING AND DRAINAGE PLAN  
LOVELACE MEDICAL CENTER  
RIO BRAVO CLINIC

FOR INFORMATION ONLY, N.I.C.

**Construction Notes**

- Two (2) working days prior to any excavation, contractor must contact New Mexico One Call System, 260-1990, for location of existing utilities.
- Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all potential obstructions. Should a conflict exist, the contractor shall notify the engineer so that the conflict can be resolved with a minimum amount of delay.
- All work on this project shall be performed in accordance with applicable federal, state and local laws, rules and regulations concerning safety and health.
- All construction within public right-of-way shall be performed in accordance with applicable City of Albuquerque Standards and Procedures.
- 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.
- The design of planters and landscaped areas is not part of this plan. All planters and landscaped areas adjacent to the building(s) shall be provided with positive drainage to avoid any ponding adjacent to structures. For construction details, refer to landscaping plan.

**Erosion Control Measures:**

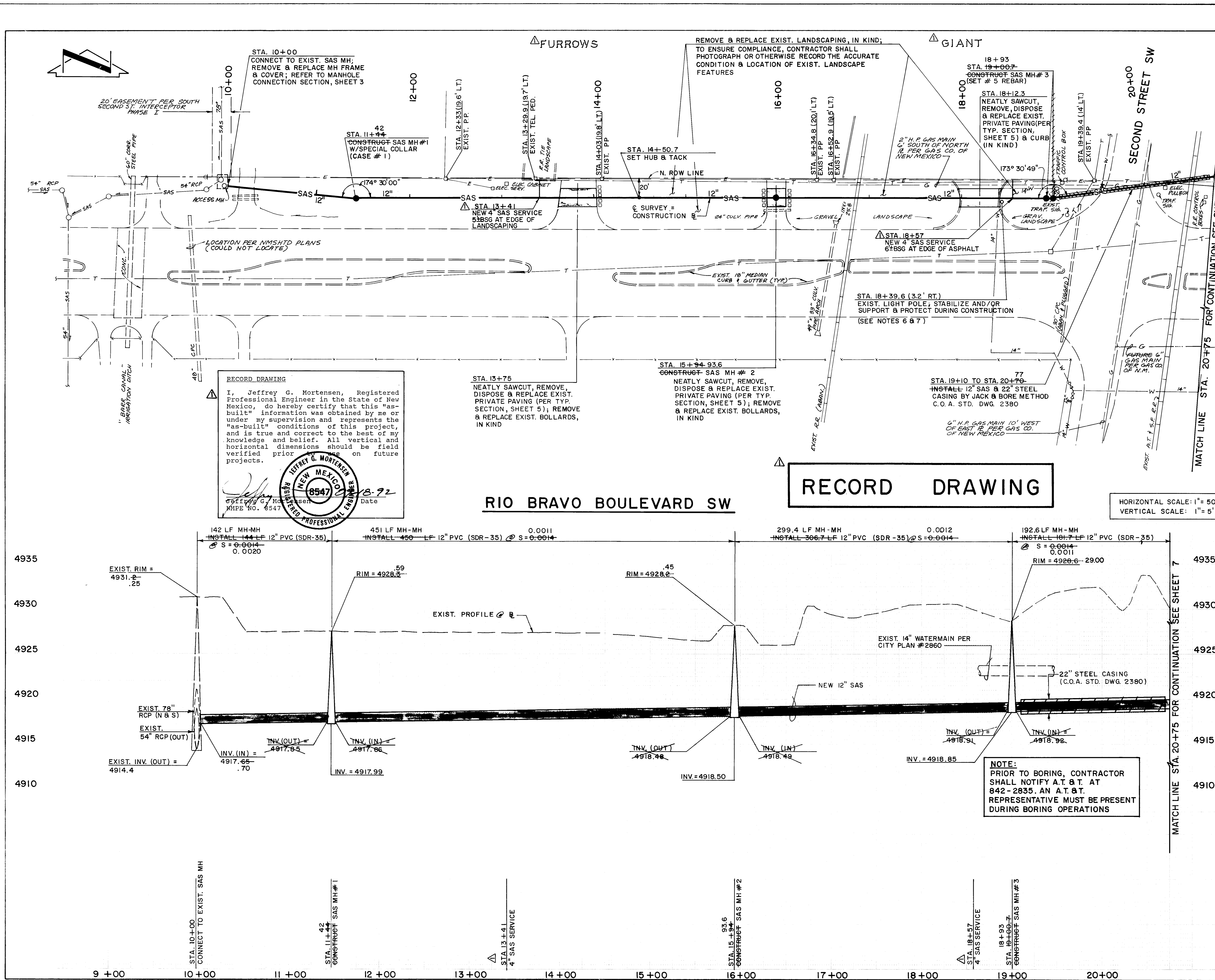
- The contractor shall ensure that no soil erodes from the site into public right-of-way or onto private property. This can be achieved by constructing temporary berms at the property lines and wetting the soil to keep it from blowing.
- The contractor shall promptly clean up any material excavated within the public right-of-way so that the excavated material is not susceptible to being washed down the street.
- The contractor shall secure "topsoil disturbance permit" Prior to beginning construction.
- Reseed with native grasses or landscape all disturbed areas following the construction of onsite improvements.

PROJ. NO.	4397.90
JOB NO.	910542
DATE	12 / 91
SHEET	4 OF 10





ROQUE ARTMENT ROUP		
INDUSTRIAL		
IONS & DETAILS		
OWALS	ENGINEER	DATE
	<i>Allison</i>	2-26-98
WATER	<i>ALL</i>	"
	<i>Earl</i>	3/6/98
SHEET OF		
14	5	10



**RECORD DRAWING**

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Jeffrey G. Mortensen  
Professional Engineer  
New Mexico  
No. 8547  
Date 01-13-92

**RECORD DRAWING**

**SANITARY SEWER CONSTRUCTION NOTES:**

- ALL STATIONING IS BASED ON SEWER CENTERLINE UNLESS INDICATED OTHERWISE.
- ALL SEWER PIPE SHALL BE PVC (SDR 35) OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. VITRIFIED CLAY AND DUCTILE IRON ARE ACCEPTABLE PIPE MATERIALS IN LIEU OF PVC.
- SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
- ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE "E" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.
- SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
- 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.
- WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

**WATERLINE CONSTRUCTION NOTES:**

- ALL STATIONING IS BASED ON SEWER CENTERLINE.
- 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.
- WATER LINE SHALL HAVE A MINIMUM COVER OF 4'0" FINISHED GRADE TO TOP OF PIPE. EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
- ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
- 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.
- VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF THESE EXTENSIONS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

**AS BUILT INFORMATION**

NO.	DATE	BY	REVISIONS
1	01-13-92	J.M.A.	DESIGN
2	01-13-92	J.M.A.	DESIGN
3	01-13-92	J.M.A.	DESIGN
4	01-13-92	J.M.A.	DESIGN
5	01-13-92	J.M.A.	DESIGN
6	01-13-92	J.M.A.	DESIGN
7	01-13-92	J.M.A.	DESIGN
8	01-13-92	J.M.A.	DESIGN
9	01-13-92	J.M.A.	DESIGN
10	01-13-92	J.M.A.	DESIGN
11	01-13-92	J.M.A.	DESIGN
12	01-13-92	J.M.A.	DESIGN
13	01-13-92	J.M.A.	DESIGN
14	01-13-92	J.M.A.	DESIGN
15	01-13-92	J.M.A.	DESIGN

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

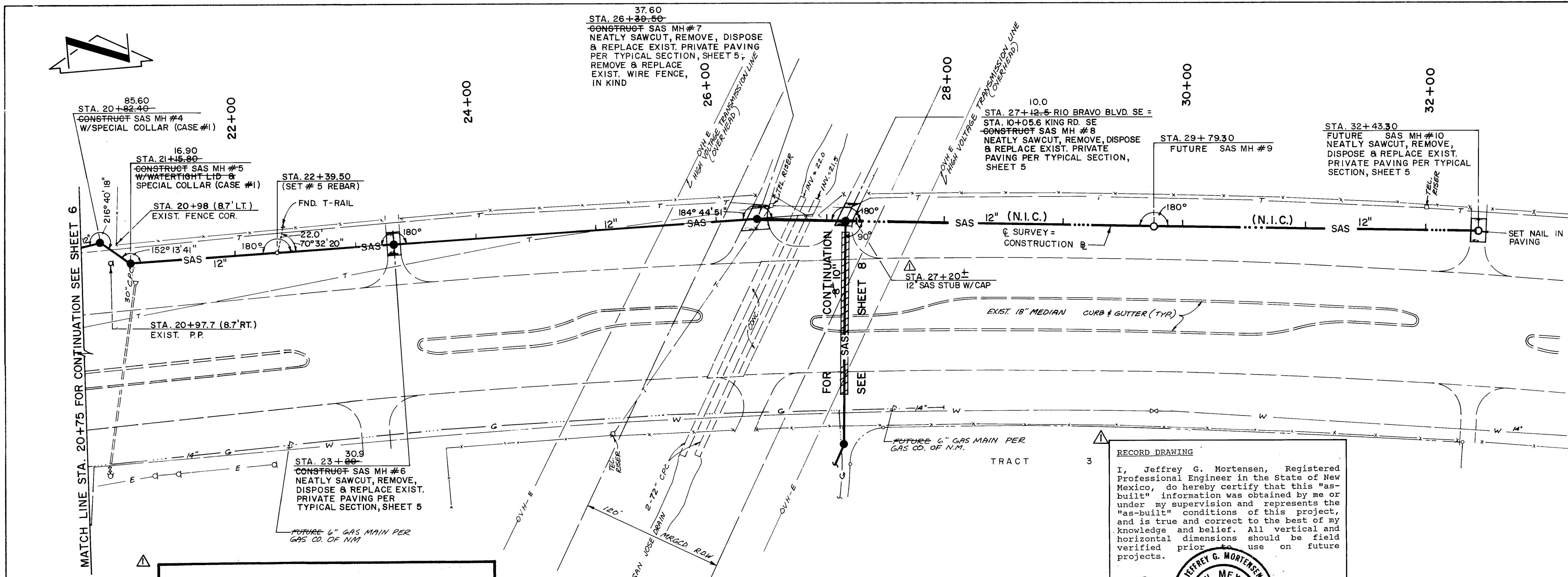
**TITLE: TRACT 3, SCHWARTZMAN INDUSTRIAL PARK - UNIT 1  
RIO BRAVO BLVD. STA. 9+97.2 TO STA. 20+75**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	Reginald	3/2/92	WATER	John	2-26-92
TRANSPORTATION	NPA	2-20-92	WASTE WATER	Al	3/4/92
HYDROLOGY	N/A	GA	BCPWD		

PROJECT NO. 4397.90 MAP NO. P13/14 SHEET 6 OF 10

SCANNED BY: JASON  
CON-42-3



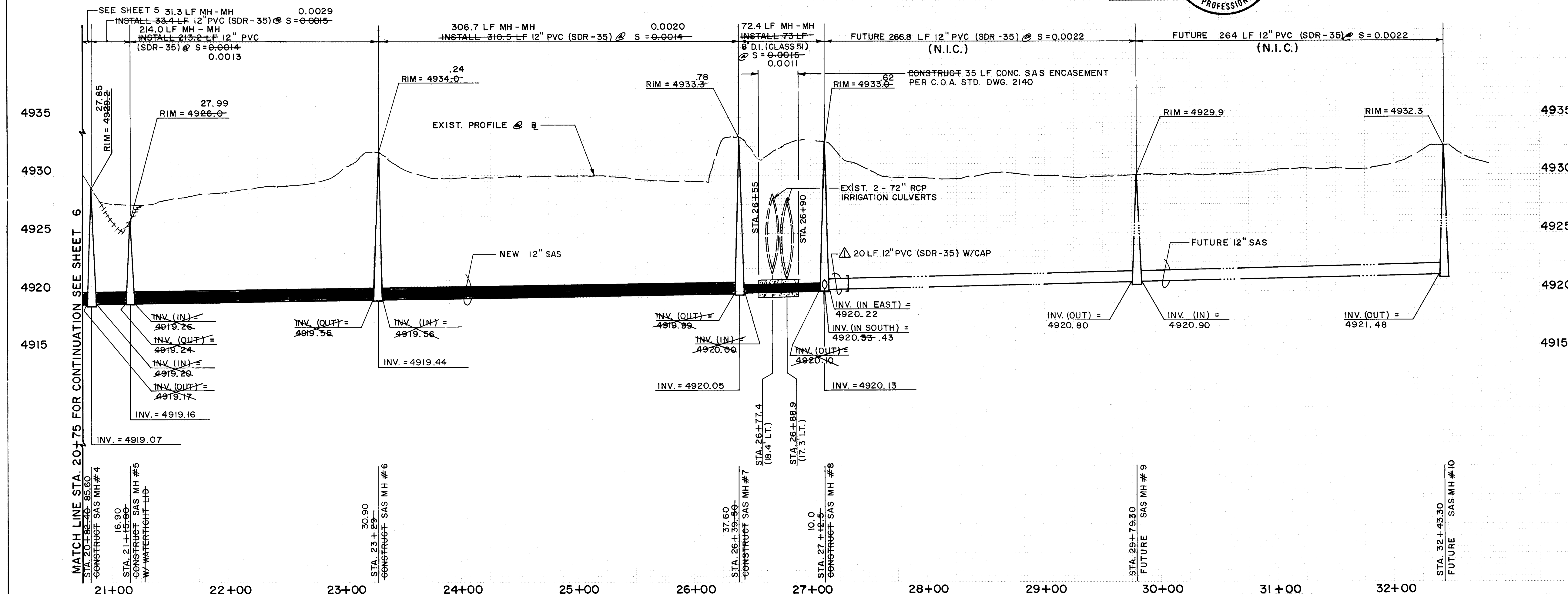


RECORD DRAWING

RIO BRAVO BOULEVARD SE

RECORD DRAWING  
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Jeffrey G. Mortensen  
NMPE No. 84547  
Professional Engineer  
Date 8-8-92

HORIZONTAL SCALE: 1" = 50'  
VERTICAL SCALE: 1" = 5'



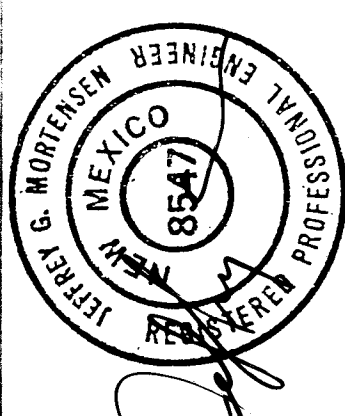
- SANITARY SEWER CONSTRUCTION NOTES:**
1. ALL STATIONING IS BASED ON SEWER CENTERLINE UNLESS INDICATED OTHERWISE.
  2. ALL SEWER PIPE SHALL BE PVC (SDR 35) OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. VITRIFIED CLAY AND DUCTILE IRON ARE ACCEPTABLE PIPE MATERIALS IN LIEU OF PVC.
  3. SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
  4. ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE "B" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.
  5. SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
  6. 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.
  7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
  8. WHERE WATER AND SANITARY SEWER LINES CROSS THE SANITARY SEWER LINE SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.

- WATERLINE CONSTRUCTION NOTES:**
9. ALL STATIONING IS BASED ON SEWER CENTERLINE.
  10. 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.
  11. WATER LINE SHALL HAVE A MINIMUM COVER OF 4'0" FINISHED GRADE TO TOP OF PIPE. EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
  12. ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
  13. IN ACCORDANCE WITH SECTION 801 OF THE "STANDARD SPECIFICATIONS", METALLIZED DETECTABLE WARNING TAPE SHALL BE INSTALLED 18" ABOVE ALL PVC PIPE INSTALLED ON THIS PROJECT.
  14. VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF THESE EXTENSIONS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION THEREFORE NO SEPARATE PAYMENT WILL BE MADE.
  15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP									
TITLE: TRACT 3, SCHWARTZMAN INDUSTRIAL PARK - UNIT 1 RIO BRAVO BLVD. STA. 20+75 TO STA. 32+43.50									
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE				
DRG CHAIRMAN	Reg. J. S. S.	3/12/92	WATER	N. J. S.	2-26-92				
TRANSPORTATION	N. J. S.	1/14/92	WASTE WATER	Reg. J. S. S.	3/6/92				
HYDROLOGY	N/A	G.A.	BCPWD						
PROJECT NO.	4397.90	MAP NO.	P 14	SHEET	7	OF 10			

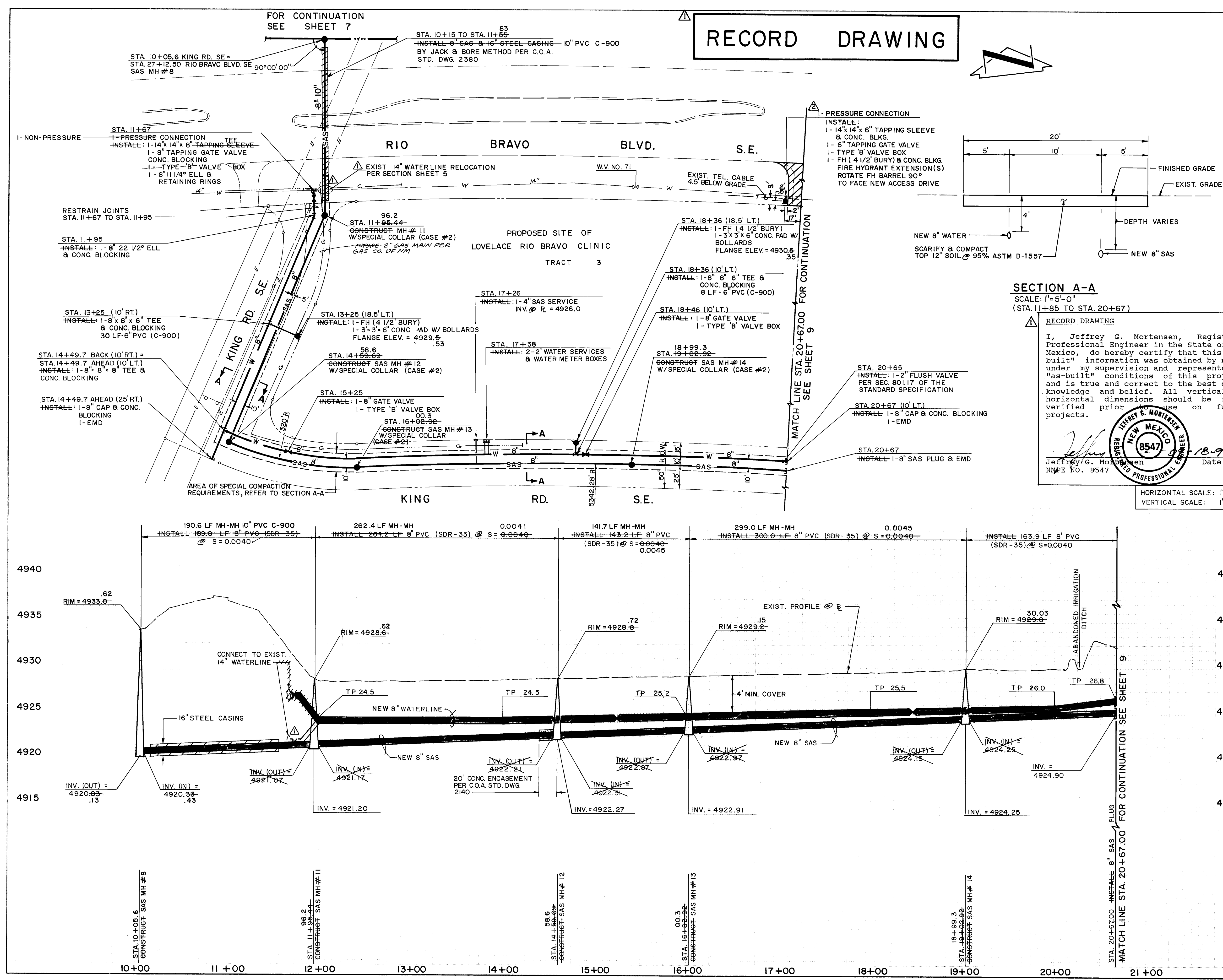
AS BUILT INFORMATION		NEW CONCEPTS	
DATE	11/91	DATE	11/91
BY	J.M.A.	BY	J.M.A.
NO.	N/A	NO.	N/A
REVISIONS		REVISIONS	
DESIGNED BY	J.G.M.	DATE	11/91
DRAWN BY	C.E.N.	DATE	12/91
CHECKED BY	J.G.M.	DATE	12/91



01-13-92



RECORD DRAWING



SECTION A-A  
SCALE: 1"=5'-0"  
(STA. 11+85 TO STA. 20+67)

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  
DATE 11-18-92  
N.M.P.E. NO. 9547

HORIZONTAL SCALE: 1"=50'  
VERTICAL SCALE: 1"=5'

SANITARY SEWER CONSTRUCTION NOTES:	
1.	ALL STATIONING IS BASED ON SEWER CENTERLINE UNLESS INDICATED OTHERWISE.
2.	ALL SEWER PIPE SHALL BE PVC (SDR 35) OR AS APPROVED BY THE CITY OF ALBUQUERQUE CITY ENGINEER. VITRIFIED CLAY AND DUCTILE IRON ARE ACCEPTABLE PIPE MATERIALS IN LIEU OF PVC.
3.	SLOPES SHOWN ON THE PROFILES ARE BASED ON TRUE DISTANCES.
4.	ALL MANHOLES SHALL BE FOUR-FOOT DIAMETER TYPE "B" AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2102 UNLESS OTHERWISE NOTED.
5.	SEWER SERVICE LATERALS SHALL BE PROVIDED WITH ELECTRONIC MARKER DISCS AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125. EMD SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
6.	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.
7.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
8.	WHERE WATER AND SANITARY SEWER LINES CROSS, THE SANITARY SEWER LINE SHALL BE CONCRETE ENCASED FOR A DISTANCE OF 10 FEET EACH SIDE OF THE CROSSING IF 18 INCHES OF VERTICAL SEPARATION DOES NOT EXIST.
WATERLINE CONSTRUCTION NOTES:	
9.	ALL STATIONING IS BASED ON SEWER CENTERLINE.
10.	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.
11.	WATER LINE SHALL HAVE A MINIMUM COVER OF 4'0" FINISHED GRADE TO TOP OF PIPE. EXTRA DEPTH TRENCHING, IF REQUIRED, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
12.	ELECTRONIC MARKER DISCS (EMD) SHALL BE INSTALLED IN ACCORDANCE WITH THE STANDARD SPECIFICATION.
13.	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.
14.	VALVE STEM AND FIRE HYDRANT EXTENSIONS SHALL BE PROVIDED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. THE COST OF THESE EXTENSIONS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.
15.	THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND REPLACING, IF DAMAGED, ALL OTHER UTILITIES ENCOUNTERED DURING CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO TRENCHING, THEREFORE, NO SEPARATE PAYMENT WILL BE MADE.

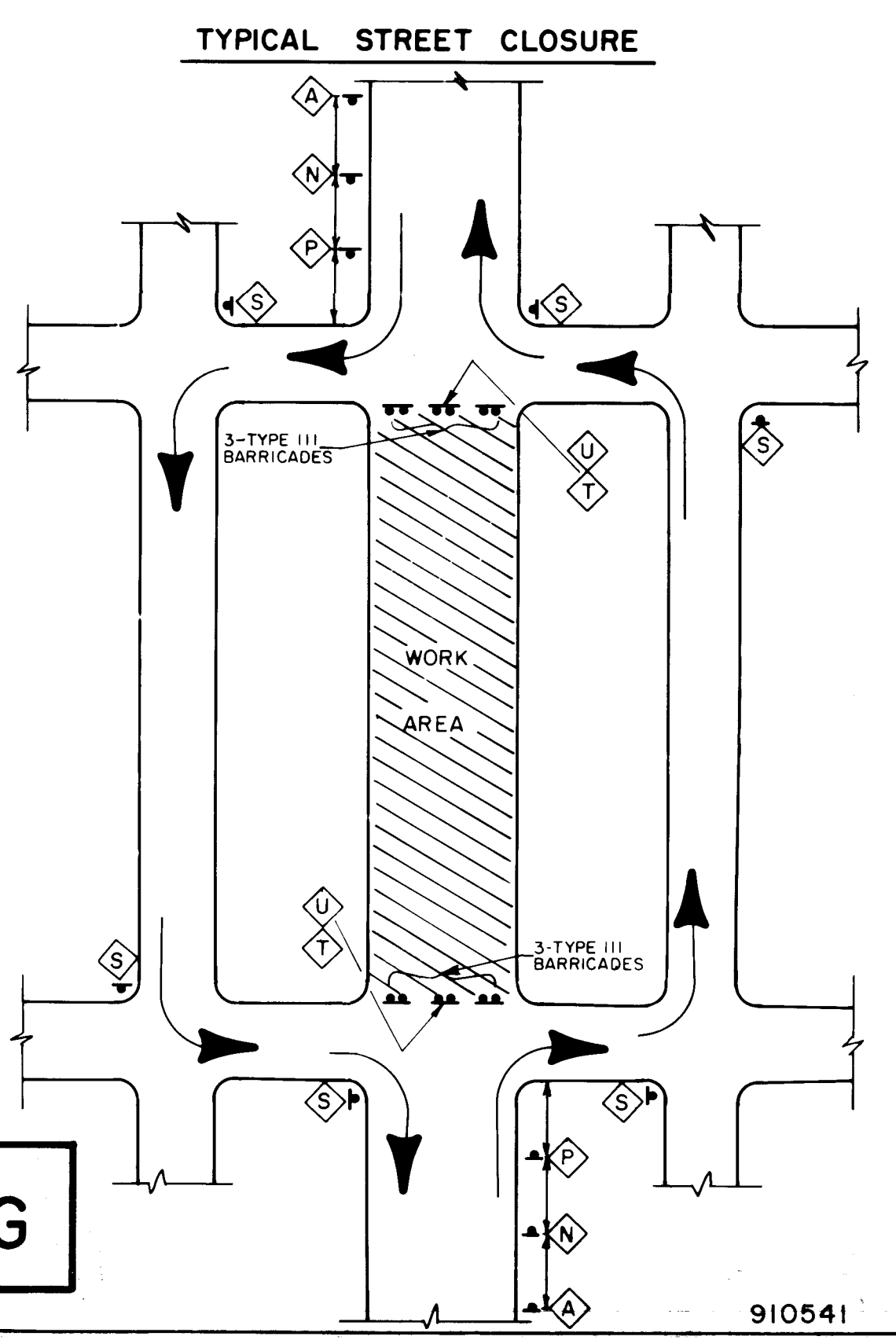
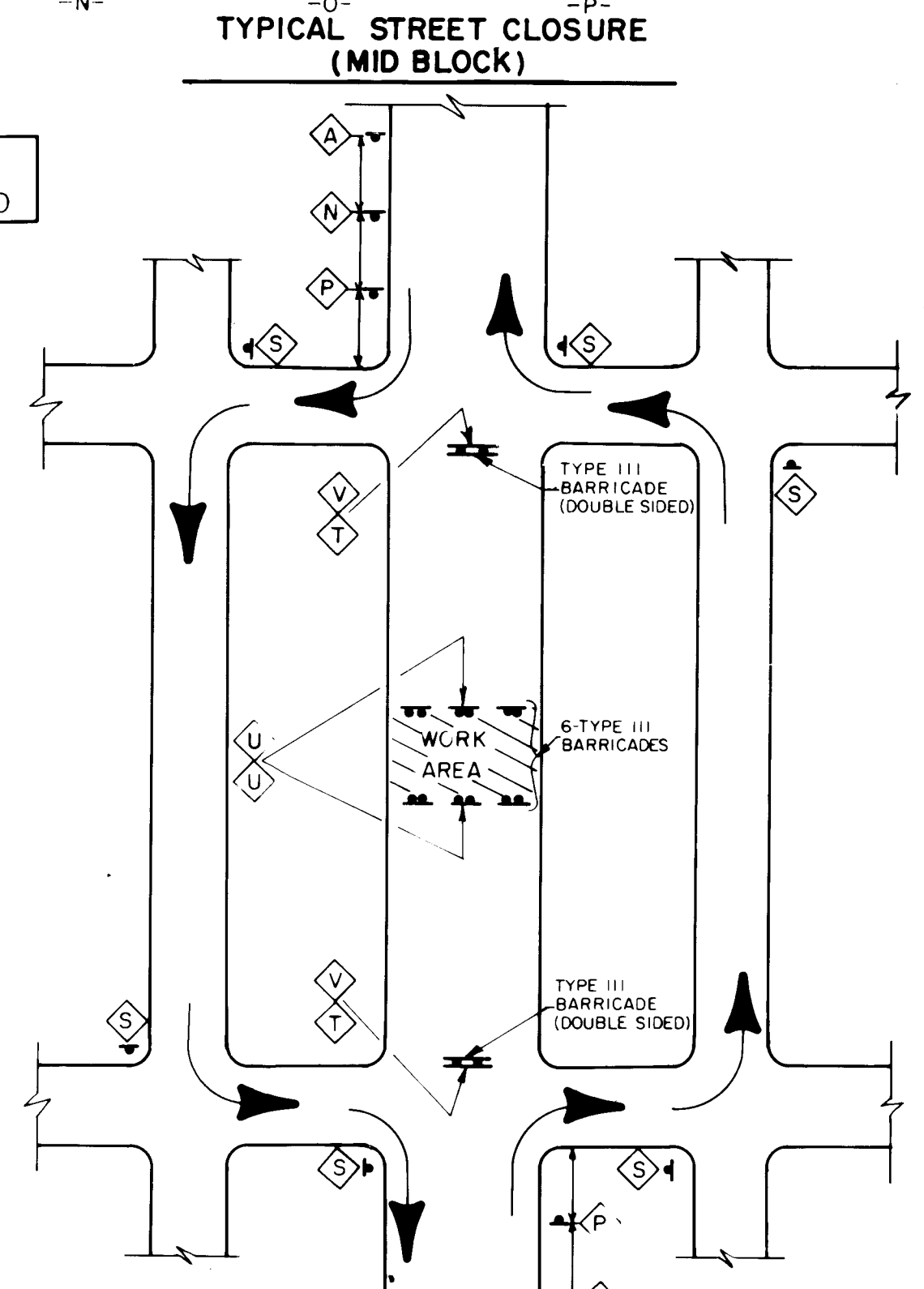
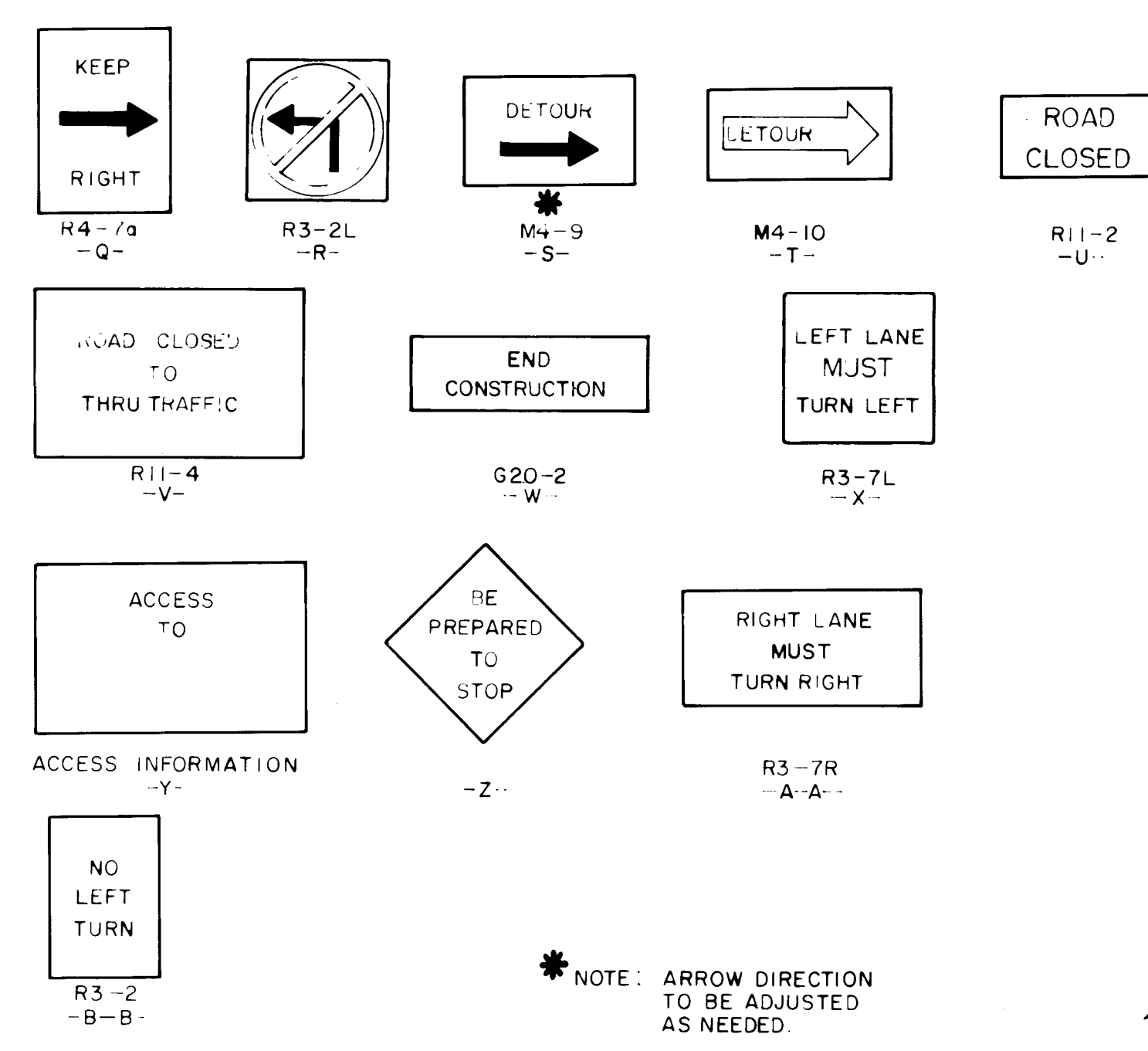
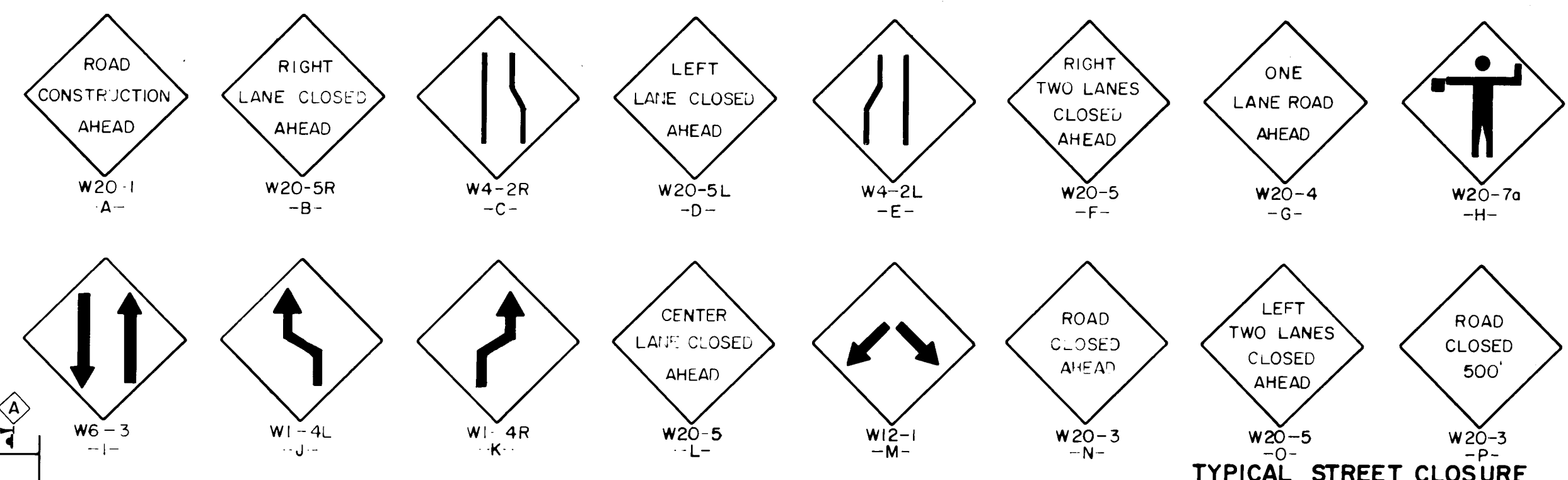
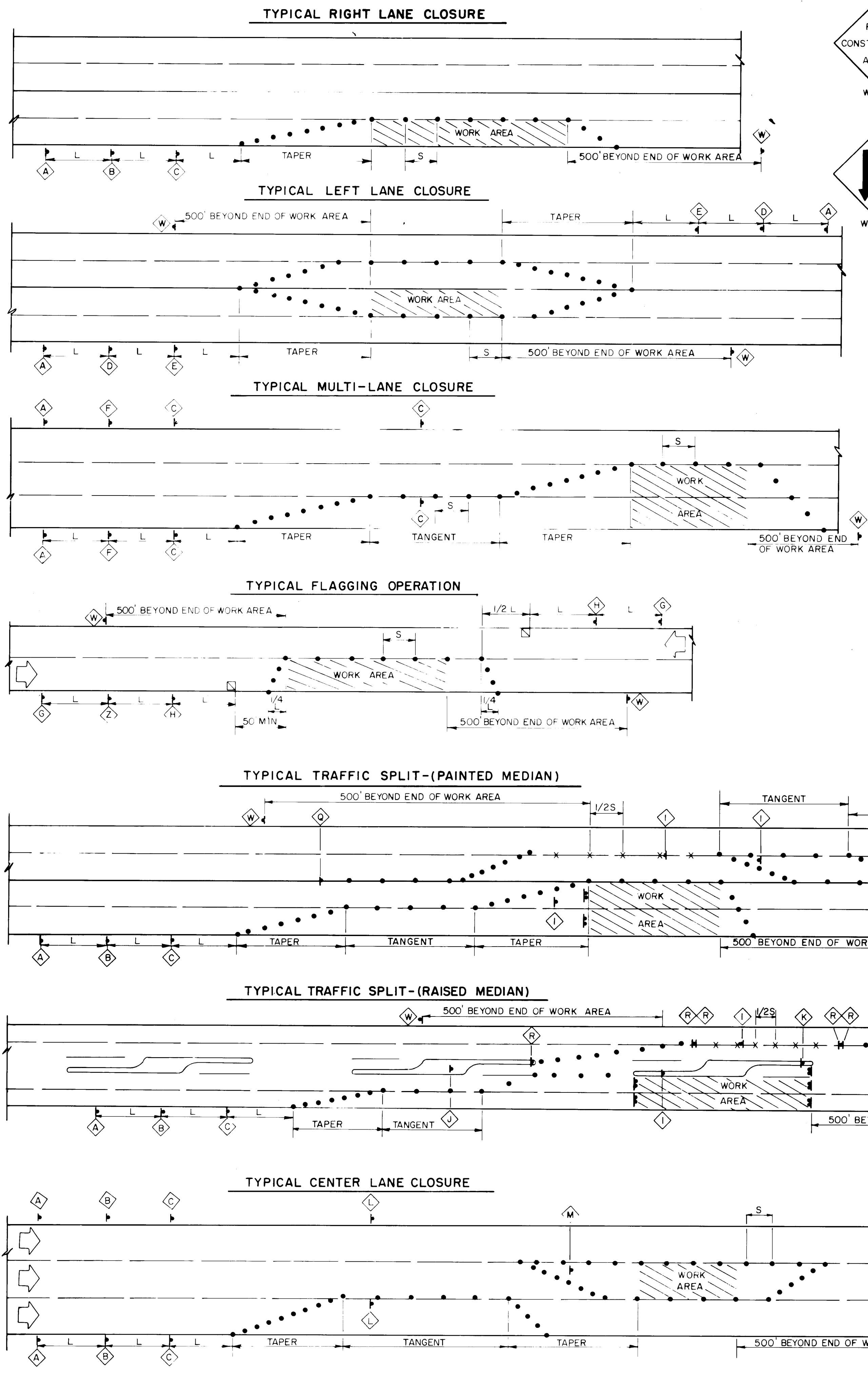
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP	
TITLE: TRACT 3, SCHWARTZMAN INDUSTRIAL PARK - UNIT 1 KING ROAD STA. 10+00 TO STA. 20+67	
APPROVALS	ENGINEER
DRC CHAIRMAN	DATE 3/12/92
TRANSPORTATION	DATE 1/14/92
HYDROLOGY	DATE 1-17-92
DESIGNED BY	DATE 11/91
DRAWN BY	DATE 12/91
CHECKED BY	DATE 12/91

REVISIONS	
NO.	DATE
1	11/91
2	12/91
3	12/91

PROJECT NO. 4397.90	
MAP NO. P 14	SHEET 8 OF 10







**LEGEND**

WORK AREA

TRAFFIC SIGN & QUANTITY (See this sheet for designation)

BARRICADE - TYPE I, TYPE II, OR BARREL

BARRICADE - TYPE III

VERTICAL PANEL

WARNING SIGN

DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET

FLAGMAN POSITION

SPACING BETWEEN BARRICADES - A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED OF THE STREET

TAPER LENGTH - SEE CHART BELOW

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

**NOTES**

ALL ADVANCE WARNING SIGNS ARE TO BE DOUBLE INDICATED WHENEVER MEDIANS ARE PRESENT.

TRANSFORMATION FROM EXISTING SIGNALS TO SPAN WIRE IS TO OCCUR AT OFF PEAK HOURS.

THESE DETAILS PROVIDED COURTESY OF THE CITY OF ALBUQUERQUE TRANSPORTATION DEVELOPMENT SECTION.

**TAPER REQUIREMENTS**

SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MAXIMUM DISTANCE BETWEEN DEVICES (FEET)	MINIMUM NUMBER OF DEVICES REQUIRED
	10' LANE	11' LANE	12' LANE		
25	104	115	125	25	6
30	150	165	185	30	7
35	204	225	245	35	8
40	267	293	320	40	9
45	450	495	540	45	13
50	500	550	600	50	13
55	550	605	660	55	13

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**RECORD DRAWING**

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

TITLE: TRACT 3, SCHWARTZMAN INDUSTRIAL WATER & SANITARY SEWER EXTENSIONS TRAFFIC CONTROL DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. CHAIRMAN	<i>[Signature]</i>	3/10/92	WATER	<i>[Signature]</i>	2-20-92
TRANSPORTATION	<i>[Signature]</i>	1-18-92	WASTE WATER	<i>[Signature]</i>	1-18-92
HYDROLOGY	<i>[Signature]</i>	1-17-92	BCPWD	<i>[Signature]</i>	3/6/92

PROJECT NO. 4397.90 MAP NO. P13 / 14 SHEET 10 OF 10

DESIGNED BY C.O.A. DATE N/A  
DRAWN BY C.O.A. DATE N/A  
CHECKED BY C.O.A. DATE N/A