



# CITY OF ALBUQUERQUE

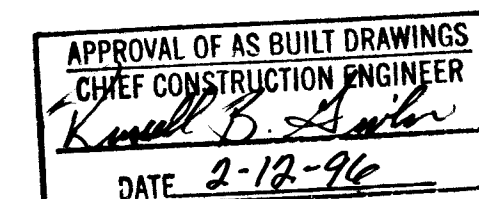
CONSTRUCTION PLANS  
FOR

## SANITARY SEWER INTERCEPTOR REHABILITATION PROJECT NO. 4314.92

FOR

### WESTSIDE INTERCEPTOR AT COORS / RIO BRAVO 14TH STREET INTERCEPTOR BETWEEN COAL & PARK 14TH STREET INTERCEPTOR AT I-40 CROSSING

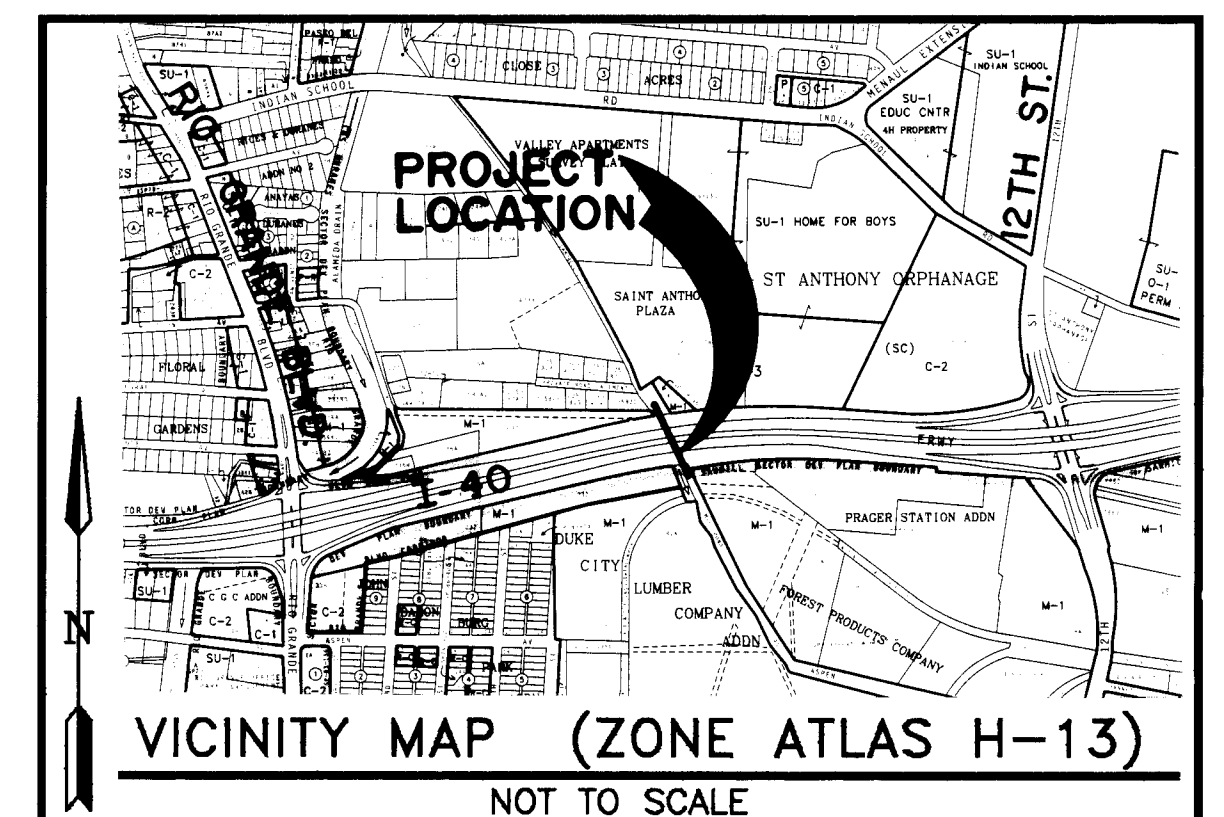
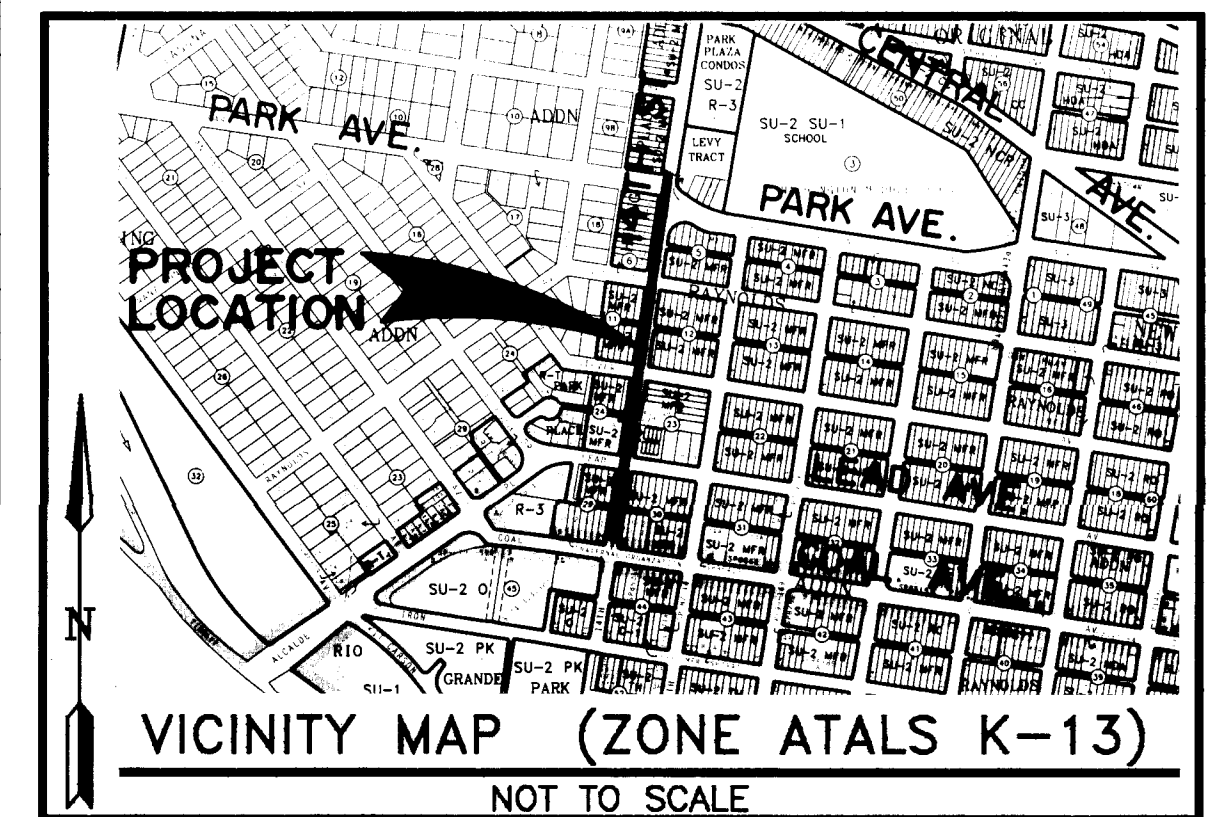
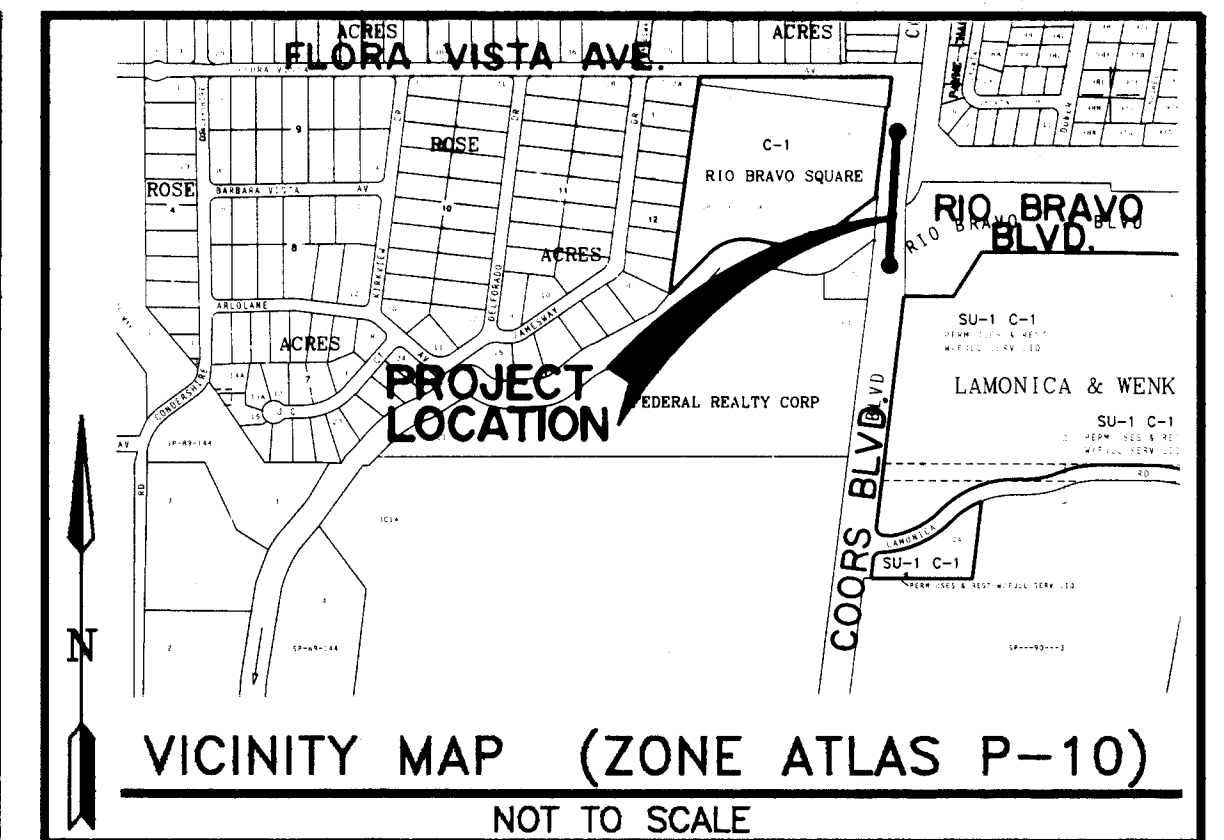
FEBRUARY 1995



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SCANNED BY  
BY LASON



**RECORD DRAWING**  
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REV	SHEETS	CITY ENGR	DATE	USER DEPT	DATE	USER DEPT	DATE
APPROVAL OF REVISIONS							

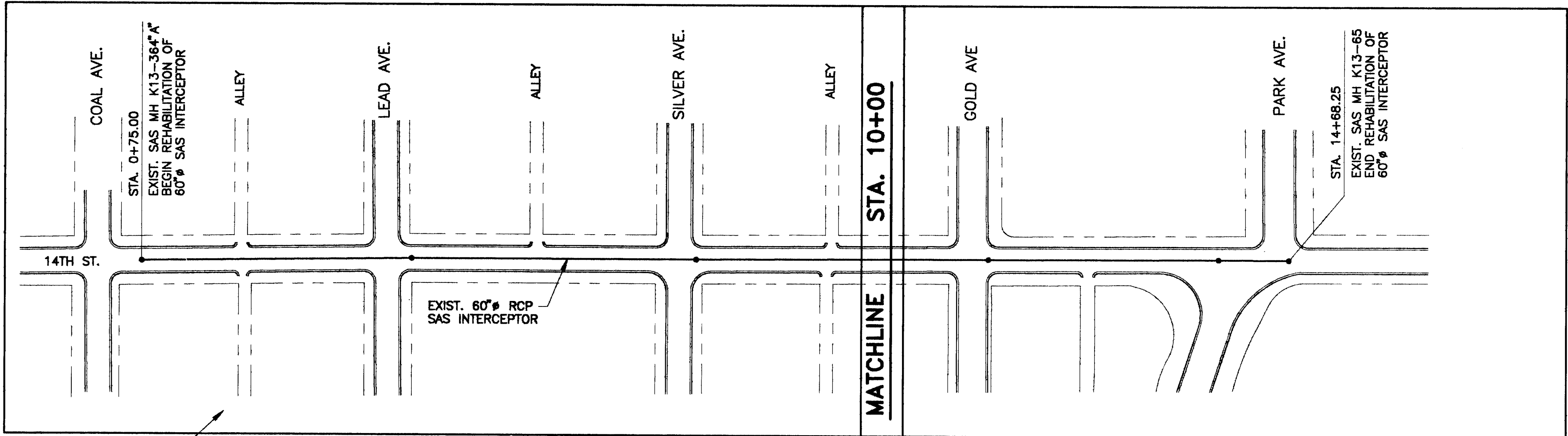


**BOYLE**  
ENGINEERING CORPORATION

APPROVED FOR  
CONSTRUCTION  
C.E.

PROJECT No.: 4314.92

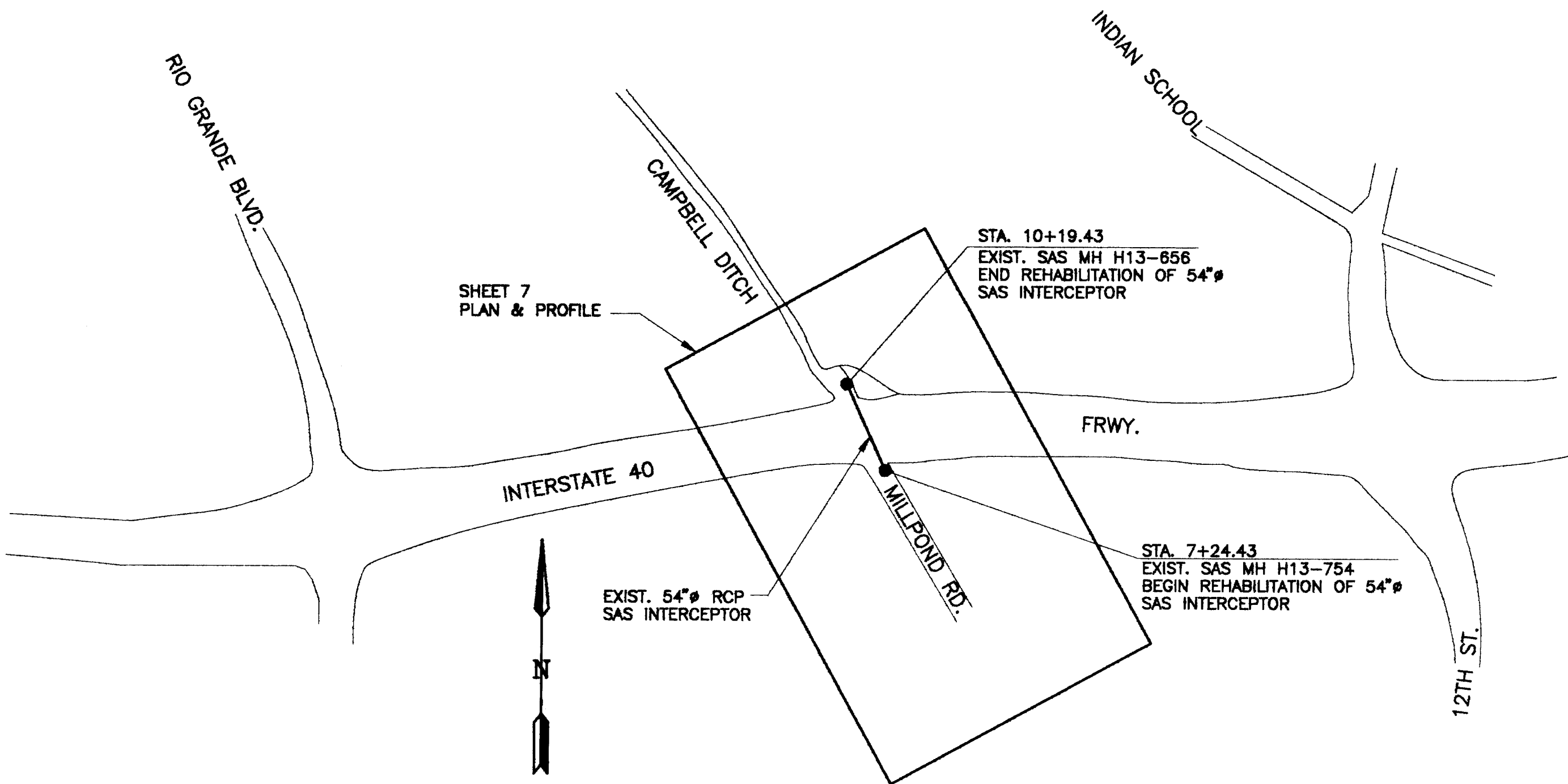
SHEET 1 of 12



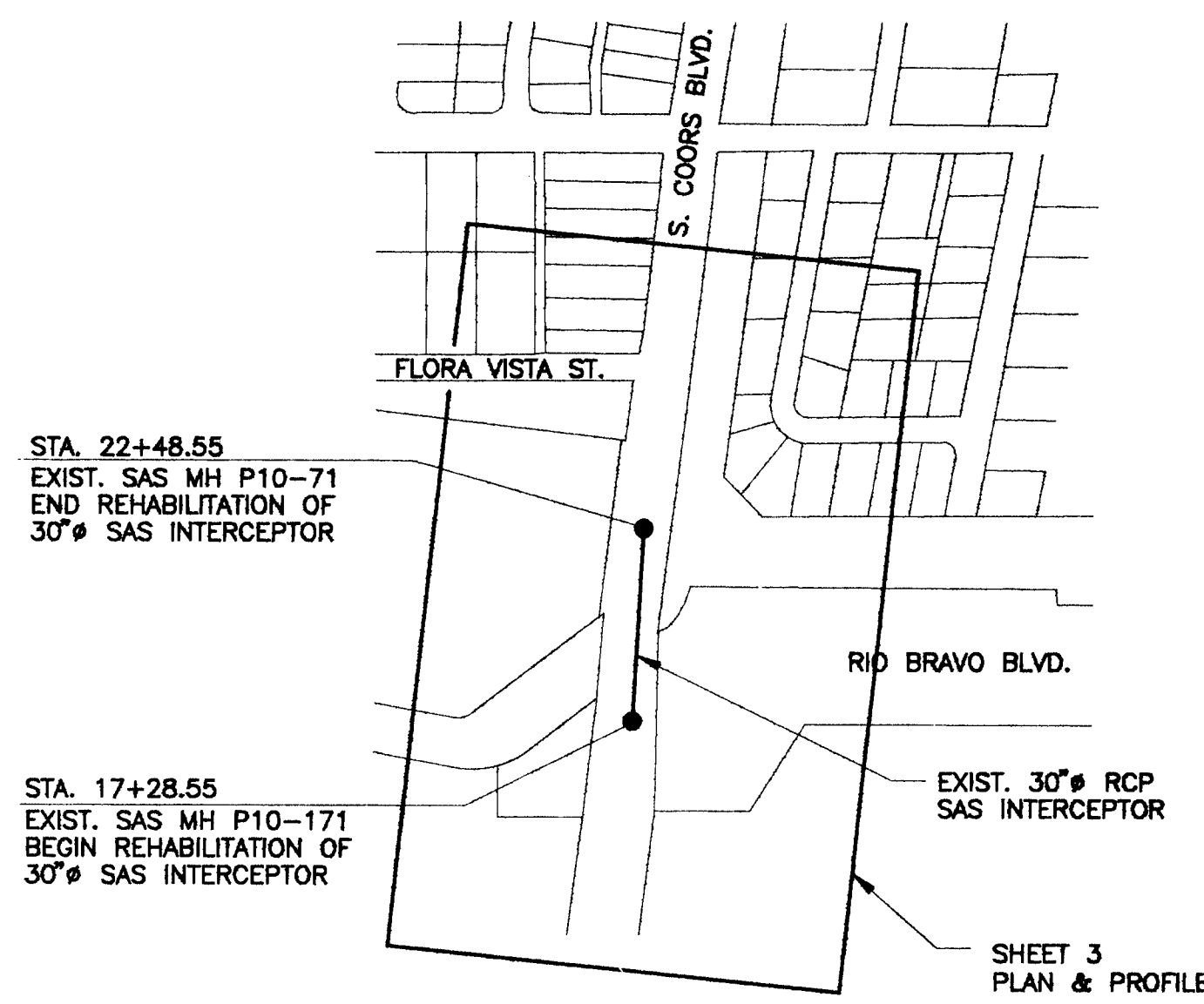
SHEET 5  
PLAN & PROFILE STA. 0+75 TO 10+00

SHEET 6  
14TH ST. INTERCEPTOR REHABILITATION  
PLAN & PROFILE STA. 10+00 TO STA. 14+68.25

**14TH STREET INTERCEPTOR REHABILITATION**  
(ZONE ATLAS MAP K-13) N.T.S.



**14TH STREET INTERCEPTOR REHABILITATION AT I-40 CROSSING**  
(ZONE ATLAS MAP H-13) N.T.S.



**WESTSIDE INTERCEPTOR REHABILITATION**  
(ZONE ATLAS MAP P-10) N.T.S.

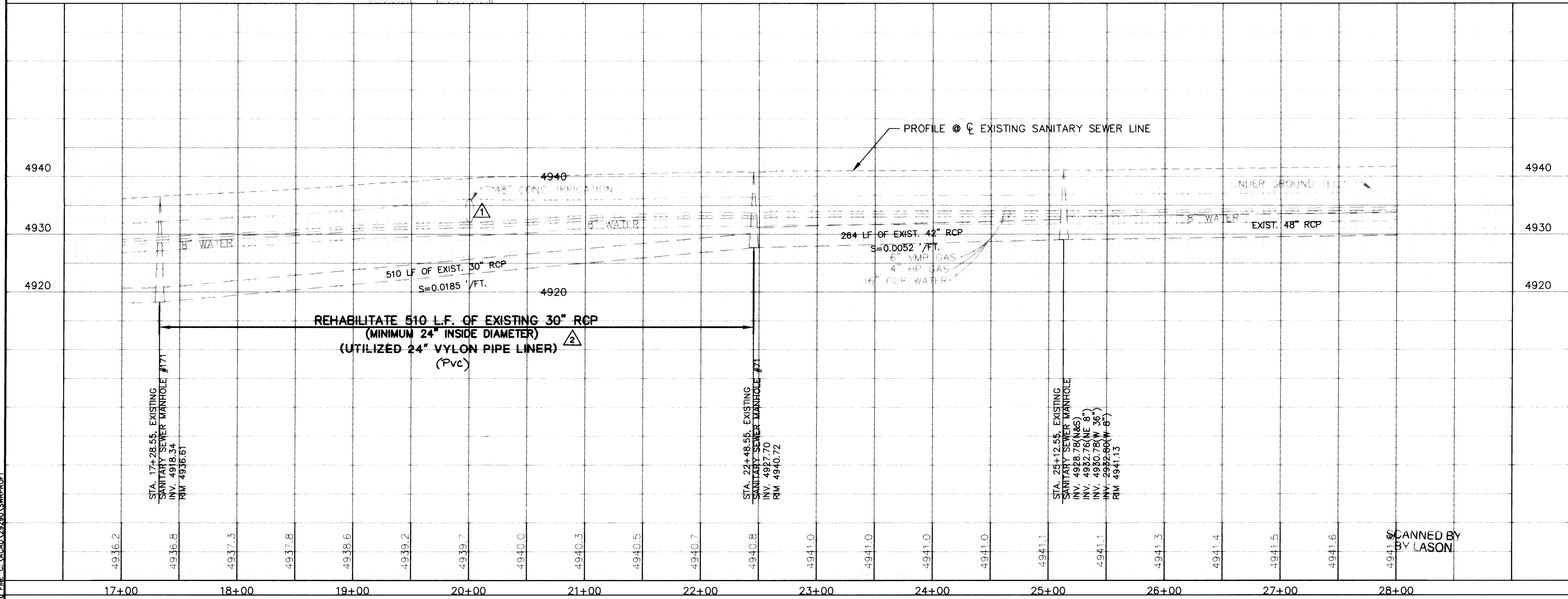
**GENERAL NOTES**

1. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT N.M. ONE-CALL SYSTEM, INC., 260-1990, FOR LOCATION OF EXISTING UTILITIES.
2. 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 FOR PUBLIC WORKS CONSTRUCTION, 1986 (INCLUDING AMENDMENTS 1, 2, 3, 4, 7 & 8). REFERENCED TO HEREIN AS THE "STANDARD SPECIFICATIONS".
3. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING VALVE BOXES, SIDEWALKS, ELECTRIC CONDUIT, MANHOLES, CURB & GUTTER, AND DRIVEPADS DURING CONSTRUCTION AND SHALL REPAIR OR REPLACE SAME AT CONTRACTOR'S EXPENSE.
4. THE LOCATION OF EXISTING UNDERGROUND UTILITIES HAS BEEN DETERMINED BY INFORMATION PROVIDED BY OTHERS, AND SHALL BE CONSIDERED APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND SIZE OF ALL EXISTING UTILITY LINES PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES RESULTING FROM FAILURE TO LOCATE ANY AND ALL UTILITIES.
5. QUANTITIES SHOWN FOR THE VARIOUS BID ITEMS ARE FOR THE CONTRACTOR'S INFORMATION ONLY. PAYMENT SHALL BE BASED ON ACTUAL AS CONSTRUCTED.
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLITION DEBRIS IN AN ENVIRONMENTALLY ACCEPTABLE MANNER AT A LOCATION APPROVED BY THE PROJECT ENGINEER. ALL SALVAGED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
7. THE CONTRACTOR SHALL SUPPORT AND MAINTAIN OPERATIONAL ALL UTILITIES EXPOSED DURING TRENCHING AND OTHER CONSTRUCTION OPERATIONS. ALL CONSTRUCTION ACTIVITIES INVOLVING GAS, POWER, WATER, FIBER OPTIC, AND/OR OTHER UTILITY LINES SHALL BE COORDINATED WITH THE OWNER OF THE UTILITY PRIOR TO ANY DISTURBANCE. NO UTILITY SERVICE SHALL BE DISRUPTED WITHOUT FIRST NOTIFYING ALL AFFECTED PARTIES 48 HOURS IN ADVANCE.
8. INVERT AND RIM ELEVATIONS OF MANHOLES WERE SURVEYED BY ALBUQUERQUE SURVEYING, INC. THE DISTANCES BETWEEN MANHOLES FOR THE 14TH STREET SANITARY SEWER INTERCEPTOR REHABILITATION WORK ARE SHOWN FOR INFORMATION ONLY. THE HORIZONTAL DISTANCES BETWEEN MANHOLES WERE TAKEN FROM A PREVIOUS 1983 SURVEY BY ALBUQUERQUE SURVEYING, INC. THE CONTRACTOR SHALL VERIFY ALL HORIZONTAL DIMENSIONS PRIOR TO ANY CONSTRUCTION.
9. THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE 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 BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO THE APPROPRIATE TRAFFIC CONTROL PLANS INCLUDED HEREIN, SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS AND TO SECTION 19 OF THE SUPPLEMENTAL GENERAL CONDITIONS.

**RECORD DRAWING**  
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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: <b>LOCATION MAP &amp; GENERAL NOTES</b>					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER	Roger Rhee	2/23/95
TRANSPORTATION			WASTE WATER		
HYDROLOGY					
PROJECT NO.	4314.92	MAP NO.	H-13 K-13 P-10	SHEET	2 OF 12





**PLAN**  
SCALE: 1" = 50'  
**PROFILE**  
SCALE: 1" = 50'

- NOTES:**
1. CONTRACTOR SHALL EXCAVATE (POT HOLE) TO VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF EXISTING UTILITIES. CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY IF A CONFLICT EXISTS.
  2. CONTRACTOR SHALL COORDINATE ACTIVITIES WITH CONTRACTOR RESPONSIBLE FOR CONSTRUCTION OF RIO BRAVO IMPROVEMENTS.
  3. THE LOCATION OF THE EXISTING 16" WATER LINE OR OTHER UTILITIES MAY REQUIRE THE CONTRACTOR TO PROVIDE TRENCH PROTECTION FOR CONSTRUCTION OF THE PROJECT. ALL COSTS ASSOCIATED WITH SHORING, BRACING AND RELOCATION OF EXISTING UTILITY LINES REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT PRICE.

UNDERGROUND TEL.  
6" VHP GAS  
16" CCp WATER  
4" HP GAS  
8" WATER

**SECTION A-A**  
**COORS ROAD TYPICAL SECTION**

120' R/W  
10' TURNING LANE  
12' DRIVING LANE  
12' DRIVING LANE  
12' TURNING LANE  
EDGE OF PAVEMENT  
30" RCP SAS

- 26-4314.9.2 0396
4. PAVEMENT REMOVAL, DISPOSAL AND REPLACEMENT SHALL BE INCIDENTAL TO THE REHABILITATION OF THE EXISTING 30" RCP. PAVEMENT SECTION SHALL BE IN ACCORDANCE WITH CITY STANDARD DRAWING 2465 UTILIZING THE 2" ADDITIONAL THICKNESS AS SHOWN ARTERIAL STREET SECTION.

**RECORD DRAWING**  
Drawings revised to reflect the best information available. Do not use without field verification.

85 cy of grouting was done to fill voids.

LOCATION OF VOIDS IN EXISTING LINE	
STATION TO STATION	
17+94	18+24
18+31	18+32
18+43	18+55
18+58	18+66
18+74	18+75
19+40	19+62
20+06	20+07
20+17	20+24
20+34	20+53
20+59	20+64
20+75	20+90

CONTRACTOR MAY VIEW CCTV TAPE PER SECTION 10 OF THE SPECIAL PROVISIONS.

**Connett Fleming West, Inc.**  
ENGINEERS AND PLANNERS  
4301 Indian School Road NE, Suite 101 Albuquerque, New Mexico 87110  
Office (505) 265-5448 Facsimile (505) 256-1394

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

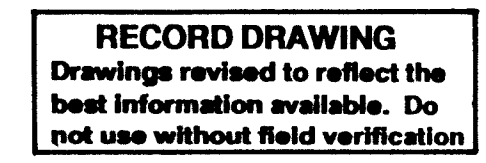
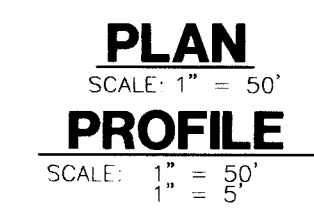
TITLE: **WESTSIDE INTERCEPTOR REHABILITATION**  
**PLAN & PROFILE, STA. 17+28.55 TO STA. 22+48.55**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		2/23/95
TRANSPORTATION			WASTE WATER		"
HYDROLOGY					"

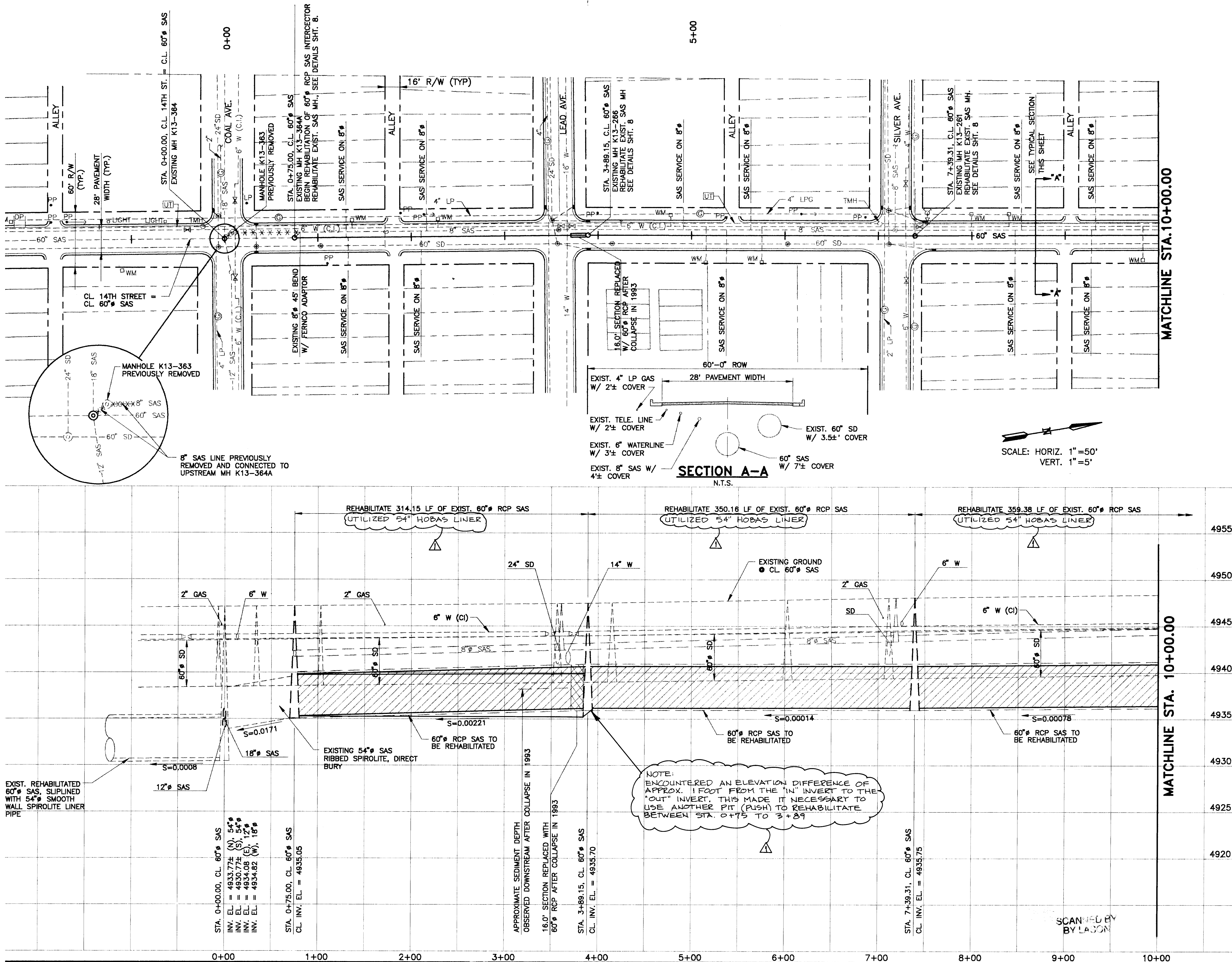
PROJECT NO. **4314.92** MAP NO. **P-10** SHEET **3** OF **12**

AS-BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	N.M.S.H.C. BRASS CAP "45-8" AT THE INTERSECTION OF COORS AND RIO BRAVO	DATE	NO.	DATE		
INSPECTOR'S	DATE	8-94	DATE	92-6	DATE		
ACCEPTANCE BY	DATE	ELEV. = 4938.95	DATE		DATE		
VERIFICATION BY	DATE		DATE		DATE		
DRAWINGS	DATE		DATE		DATE		
CHECKED BY	DATE		DATE		DATE		
MICRO-FILM INFORMATION	DATE		DATE		DATE		
RECORDED BY	DATE		DATE		DATE		
NO.	DATE		DATE		DATE		

Date: 12/22/1994  
Drawing File: C:\ACAD\29290\SWBB0E1

[illegible]





- NOTES:**
1. THE CONTRACTOR SHALL SUPPORT AND MAINTAIN OPERATIONAL ALL EXISTING UTILITIES AS REQUIRED. ALL COSTS ASSOCIATED WITH THE SHORING, BRACING AND/OR SUPPORT OF EXISTING UTILITIES FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT PRICE.
  2. PAVEMENT REMOVAL AND REPLACEMENT AS REQUIRED FOR INSERTION PIT EXCAVATIONS, GROUTING OPERATIONS, OR OTHER REPAIRS SHALL BE IN ACCORDANCE WITH THE 14TH STREET PAVEMENT REPLACEMENT SECTION DETAIL, SHEET 8. ALL PAVEMENT CUT EDGES SHALL BE SAWCUT TO PRESENT AN EVEN LINE PRIOR TO REPLACEMENT OF PAVING MATERIALS.
  3. TRENCH CUT WIDTHS FOR INSERTION PITS, GROUTING OPERATIONS OR OTHER REPAIRS SHALL BE THE MINIMUM WIDTHS REQUIRED FOR UTILITY INSTALLATION, ECONOMICAL BACKFILL & COMPACTION, AND COMPLIANCE WITH CURRENT AND APPLICABLE OSHA SAFETY REGULATIONS. ALL COSTS ASSOCIATED WITH INSERTION PIT EXCAVATIONS, BACKFILL & COMPACTION GROUTING OPERATIONS OR OTHER REPAIRS INCLUDING PAVEMENT REMOVAL AND REPLACEMENT AS REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT PRICE.
  4. ALL TRENCH BACKFILL SHALL BE COMPACTED TO 90% MINIMUM COMPACTION AT OPTIMUM MOISTURE CONTENT  $\pm 2\%$  PER ASTM D-1557.
  5. IN JULY 1993 THE OWNER OBTAINED A CCTV INSPECTION OF THE 14TH STREET INTERCEPTOR WHICH INCLUDES THE 54" AND 60" SEGMENTS SCHEDULED FOR REHABILITATION. TO REVIEW A COPY OF THE TAPE PRIOR TO BIDDING, REFER TO SECTION 10, SPECIAL PROVISIONS OF THE SPECIFICATIONS.
  6. GROUNDWATER MAY BE ENCOUNTERED DURING INSERTION PIT EXCAVATIONS. ALL COSTS ASSOCIATED WITH DE-WATERING, IF REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT PRICE. SEE SHT. 6 FOR BOREHOLE/MONITOR WELL INFORMATION.

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

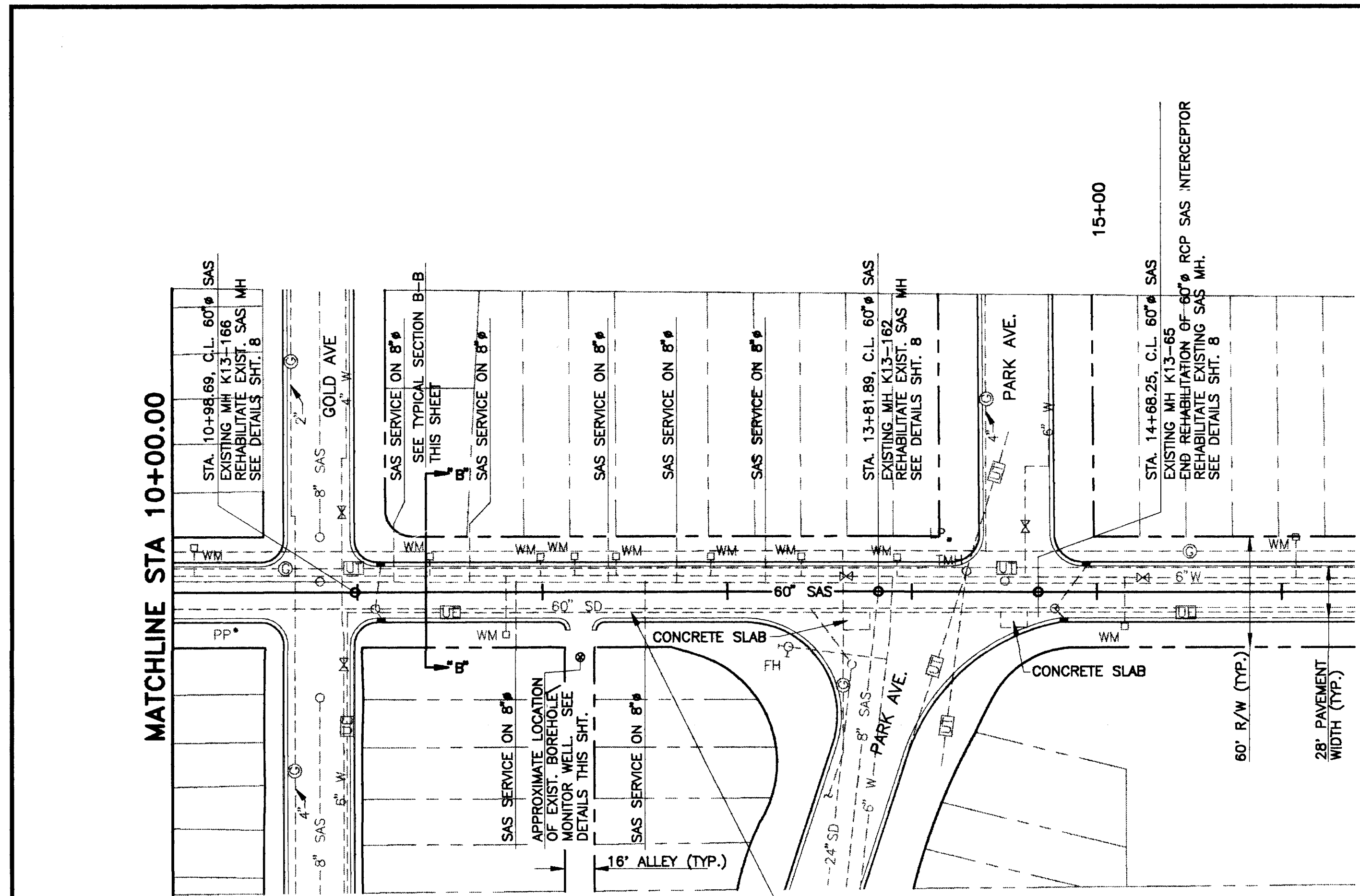
**TITLE: 14TH ST. INTECEPTOR REHABILITATION  
PLAN & PROFILE STA. 0+75 TO STA. 10+00**

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER	Royce	2/23/95
TRANSPORTATION			WASTE WATER		
HYDROLOGY					

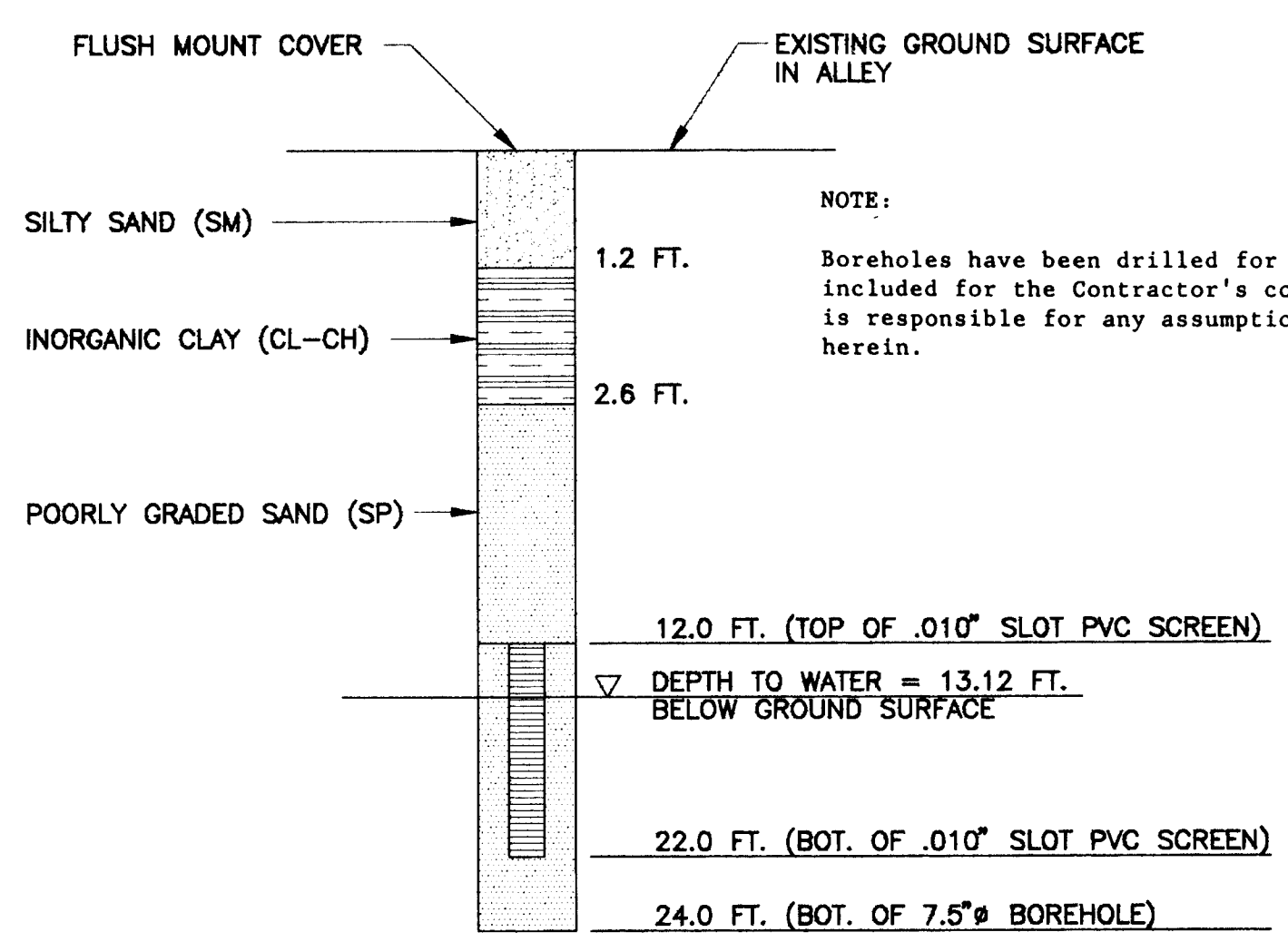
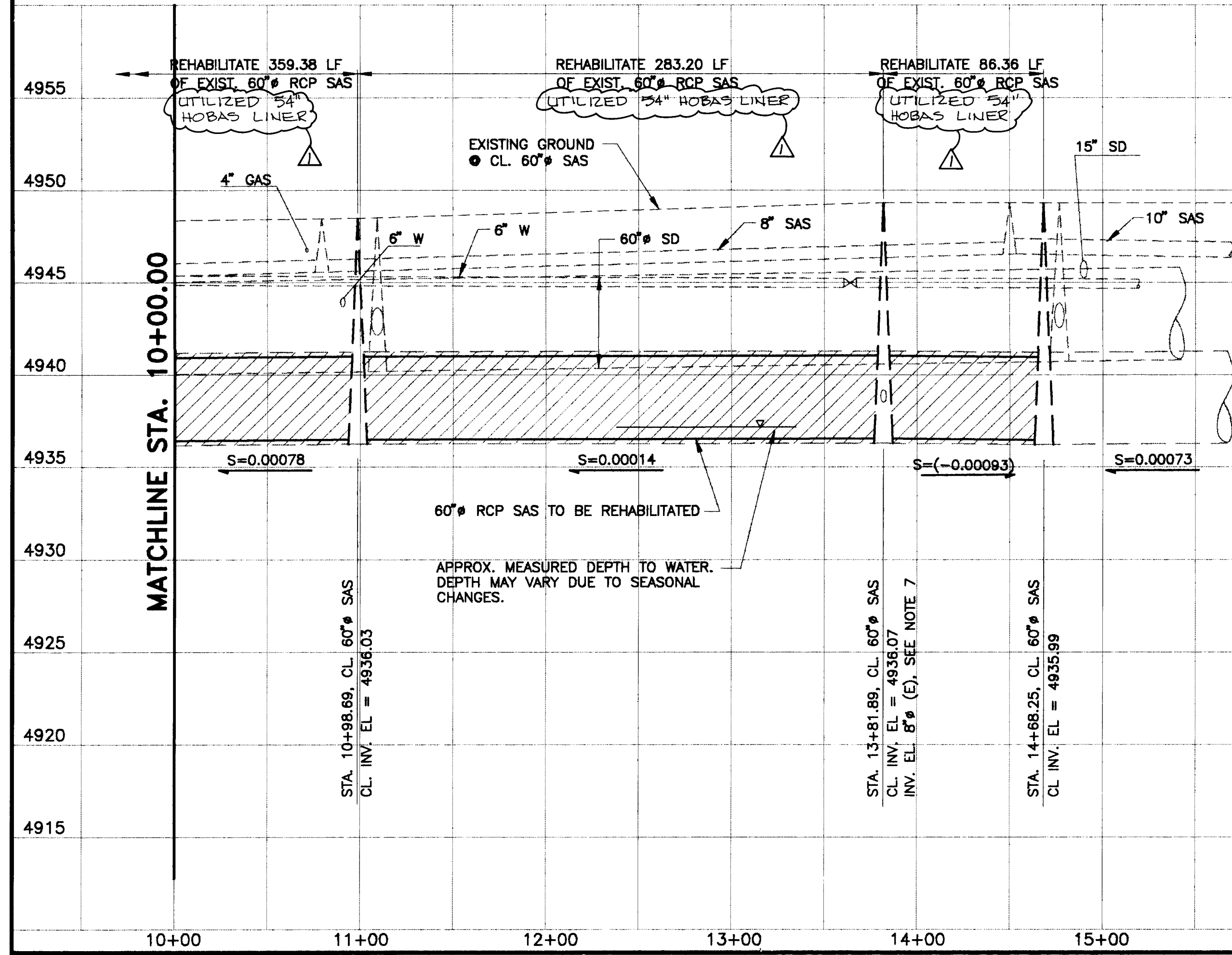
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DRAWN BY: MWM DATE: 2-1-95  
CHECKED BY: EOL DATE: 2-1-95

PROJECT NO. **4314.92** MAP NO. **K-13** SHEET **5** OF **12**

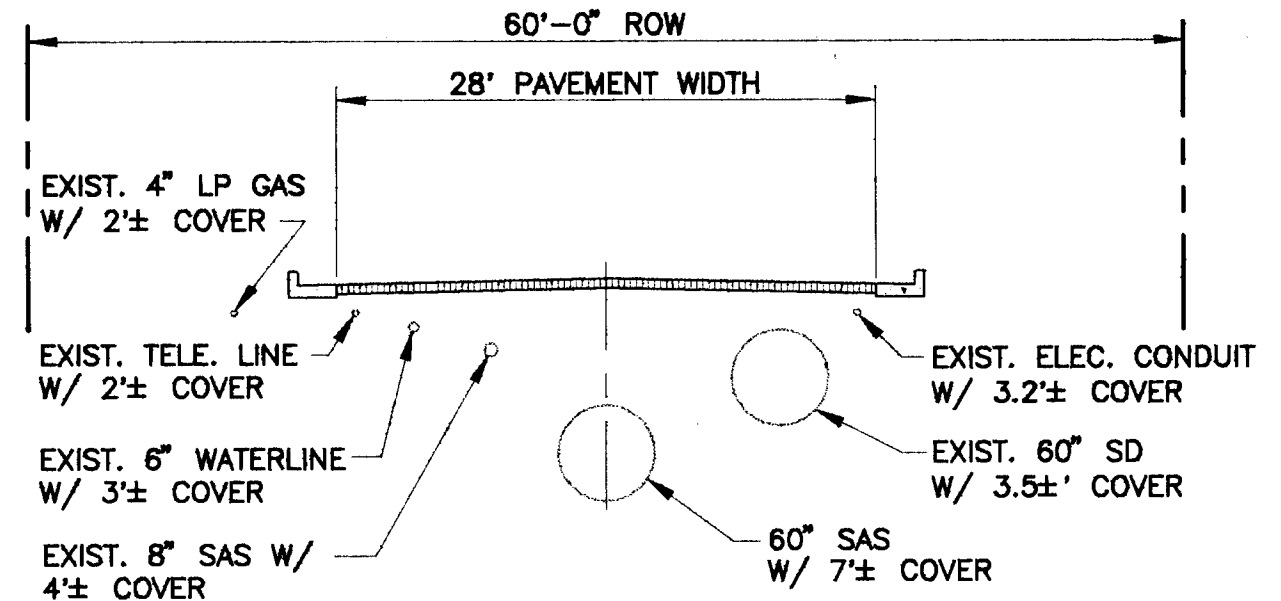




**CAUTION:** UNDERGROUND ELECTRIC CONDUITS (2-4" PVC) EACH CONTAIN A THREE-PHASE, 12.5 KV PRIMARY CIRCUIT. CONTACT ONE-CALL AT 260-1990 FOR EXACT LOCATION.



**14TH STREET BOREHOLE/MONITOR WELL (2"Ø)**  
N.T.S. (INSTALLED 3/94)



**SECTION B-B**  
N.T.S.

- NOTES:**
1. THE CONTRACTOR SHALL SUPPORT AND MAINTAIN OPERATIONAL ALL EXISTING UTILITIES AS REQUIRED. ALL COSTS ASSOCIATED WITH THE SHORING, BRACING AND/OR SUPPORT OF EXISTING UTILITIES FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT PRICE.
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  3. TRENCH CUT WIDTHS FOR INSERTION PITS, GROUTING OPERATIONS OR OTHER REPAIRS SHALL BE THE MINIMUM WIDTHS REQUIRED FOR UTILITY INSTALLATION, ECONOMICAL BACKFILL & COMPACTION, AND COMPLIANCE WITH CURRENT AND APPLICABLE OSHA SAFETY REGULATIONS. ALL COSTS ASSOCIATED WITH INSERTION PIT EXCAVATIONS, BACKFILL & COMPACTION GROUTING OPERATIONS OR OTHER REPAIRS INCLUDING PAVEMENT REMOVAL AND REPLACEMENT AS REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT PRICE.
  4. ALL TRENCH BACKFILL SHALL BE COMPACTED TO 90% MINIMUM COMPACTION AT OPTIMUM MOISTURE CONTENT  $\pm 2\%$  PER ASTM D-1557.
  5. IN JULY 1993 THE OWNER OBTAINED A CCTV INSPECTION OF THE 14TH STREET INTERCEPTOR WHICH INCLUDES THE 54" AND 60" SEGMENTS SCHEDULED FOR REHABILITATION. TO REVIEW A COPY OF THE TAPE PRIOR TO BIDDING, REFER TO SECTION 10, SPECIAL PROVISIONS OF THE SPECIFICATIONS.
  6. GROUNDWATER MAY BE ENCOUNTERED DURING INSERTION PIT EXCAVATIONS. ALL COSTS ASSOCIATED WITH DE-WATERING, IF REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT PRICE. SEE THIS SHT. FOR BOREHOLE/MONITOR WELL INFORMATION.
  7. 8" INVERT AT STA. 13+81.89 COULD NOT BE OBTAINED DURING SURVEY. CONTRACTOR SHALL FIELD VERIFY.

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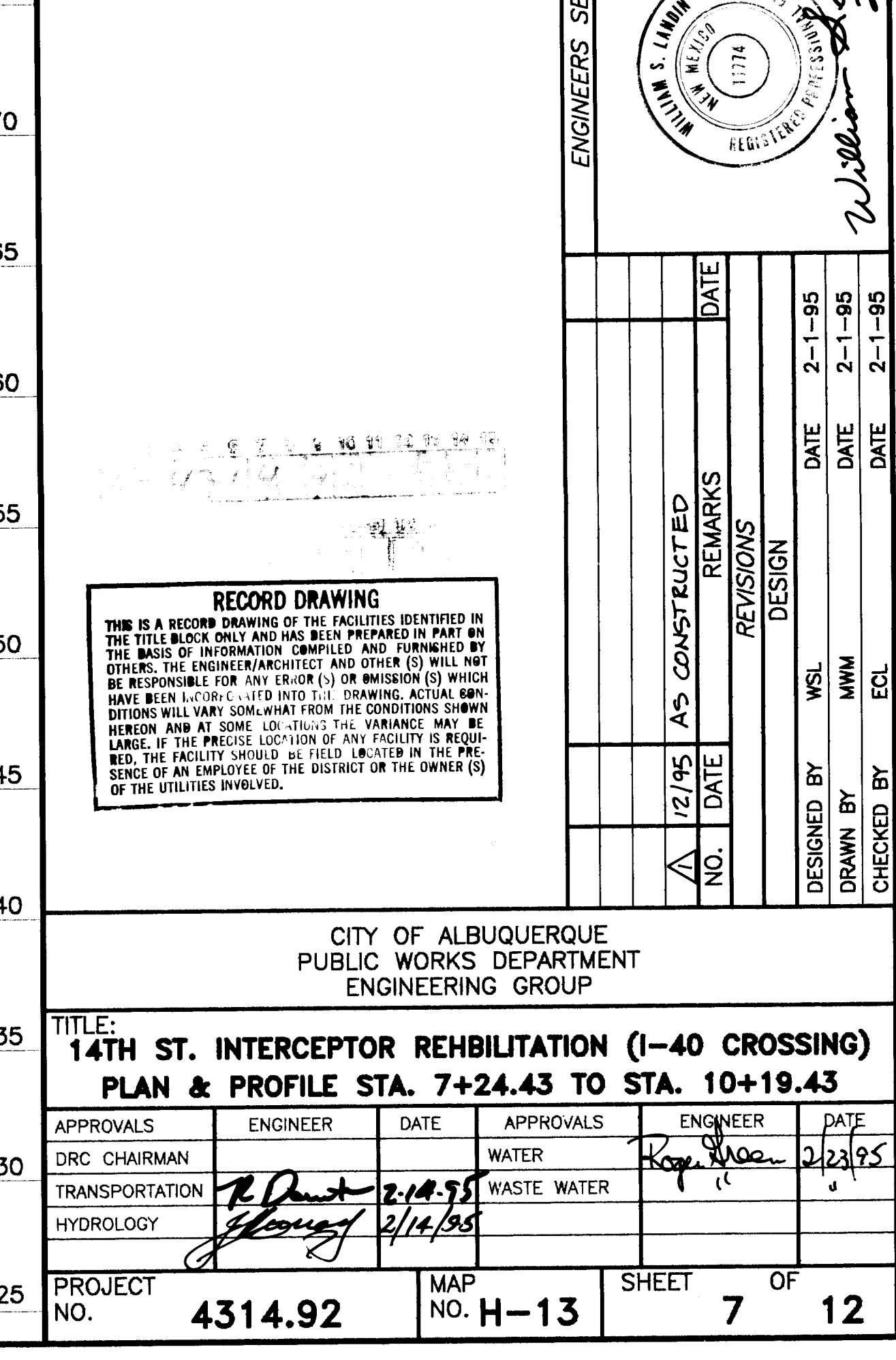
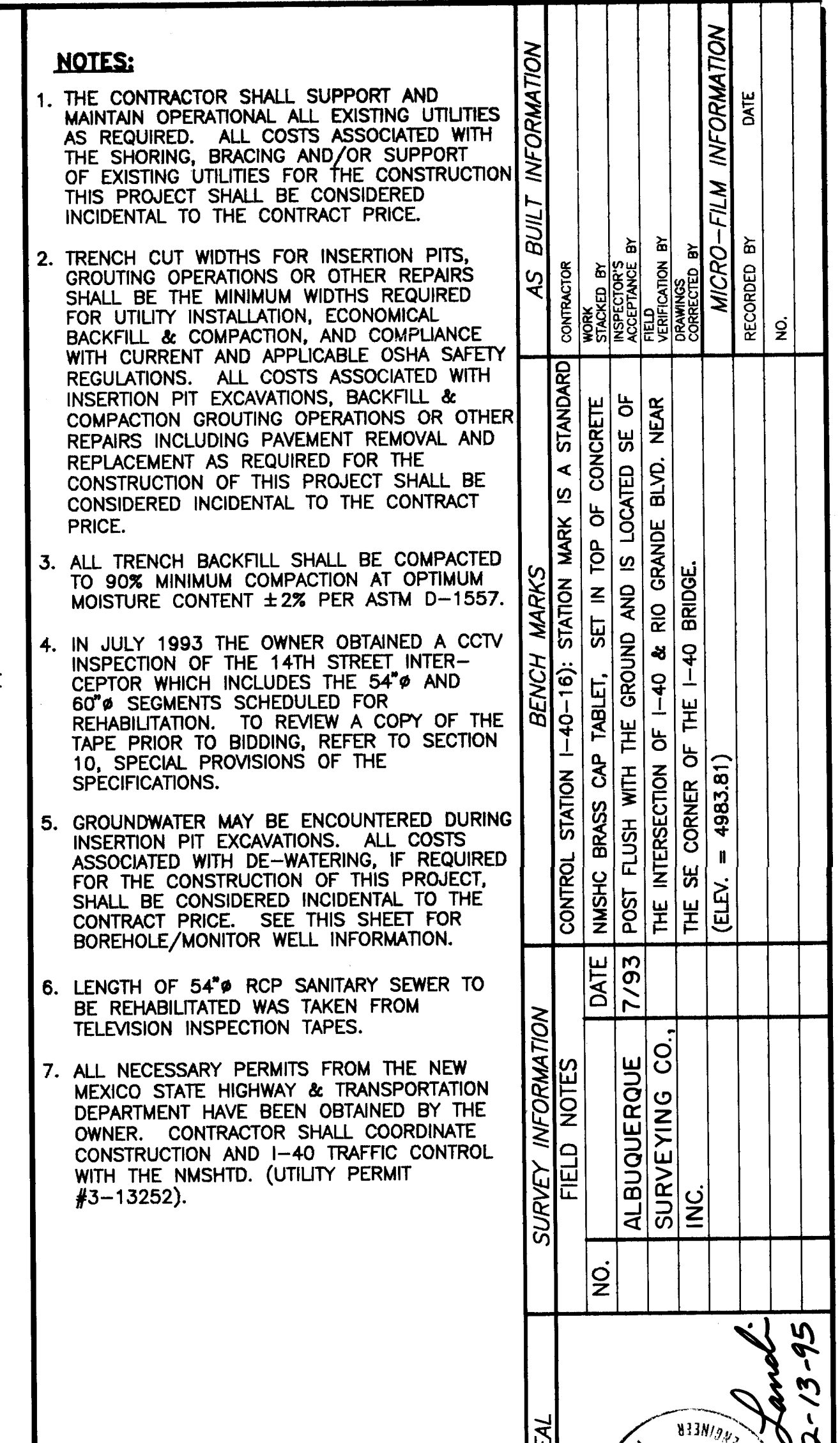
CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

**TITLE:**  
**14TH ST. INTERCEPTOR REHABILITATION**  
**PLAN & PROFILE STA. 10+00 TO STA. 14+68.25**

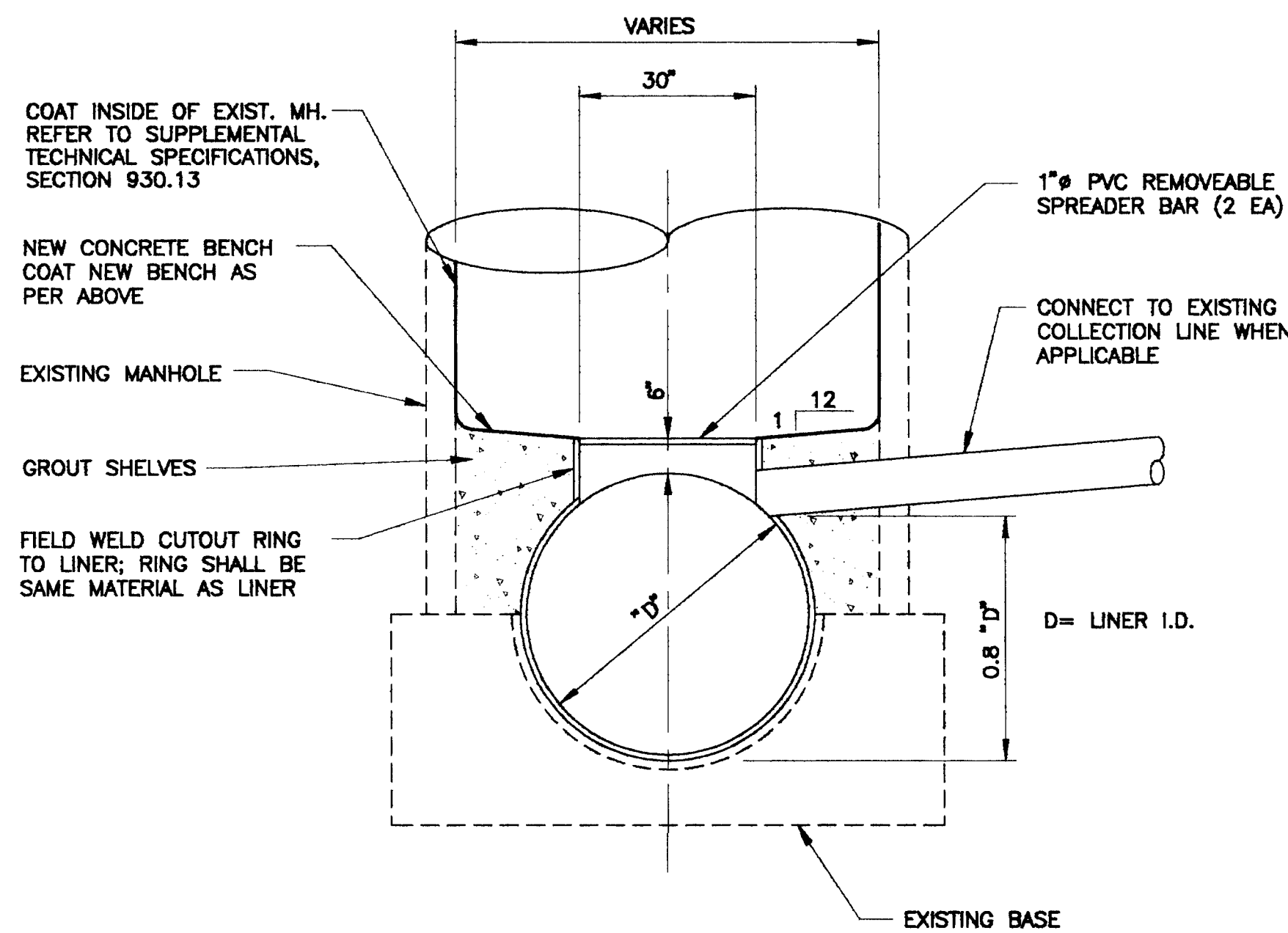
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					

DESIGNED BY: WSL DATE: 2-1-95  
DRAWN BY: CAL DATE: 2-1-95  
CHECKED BY: ECL DATE: 2-1-95

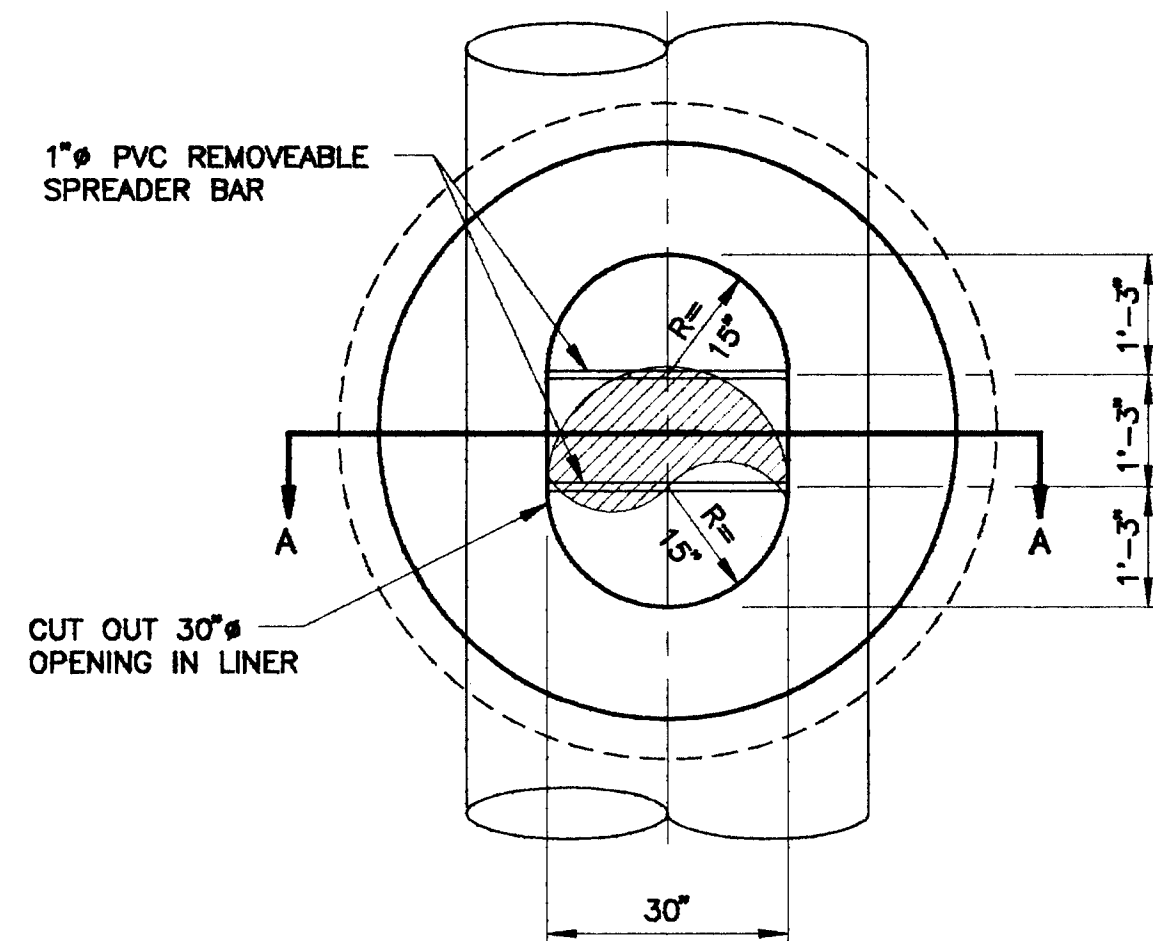
PROJECT NO. **4314.92** MAP NO. **K-13** SHEET **6** OF **12**







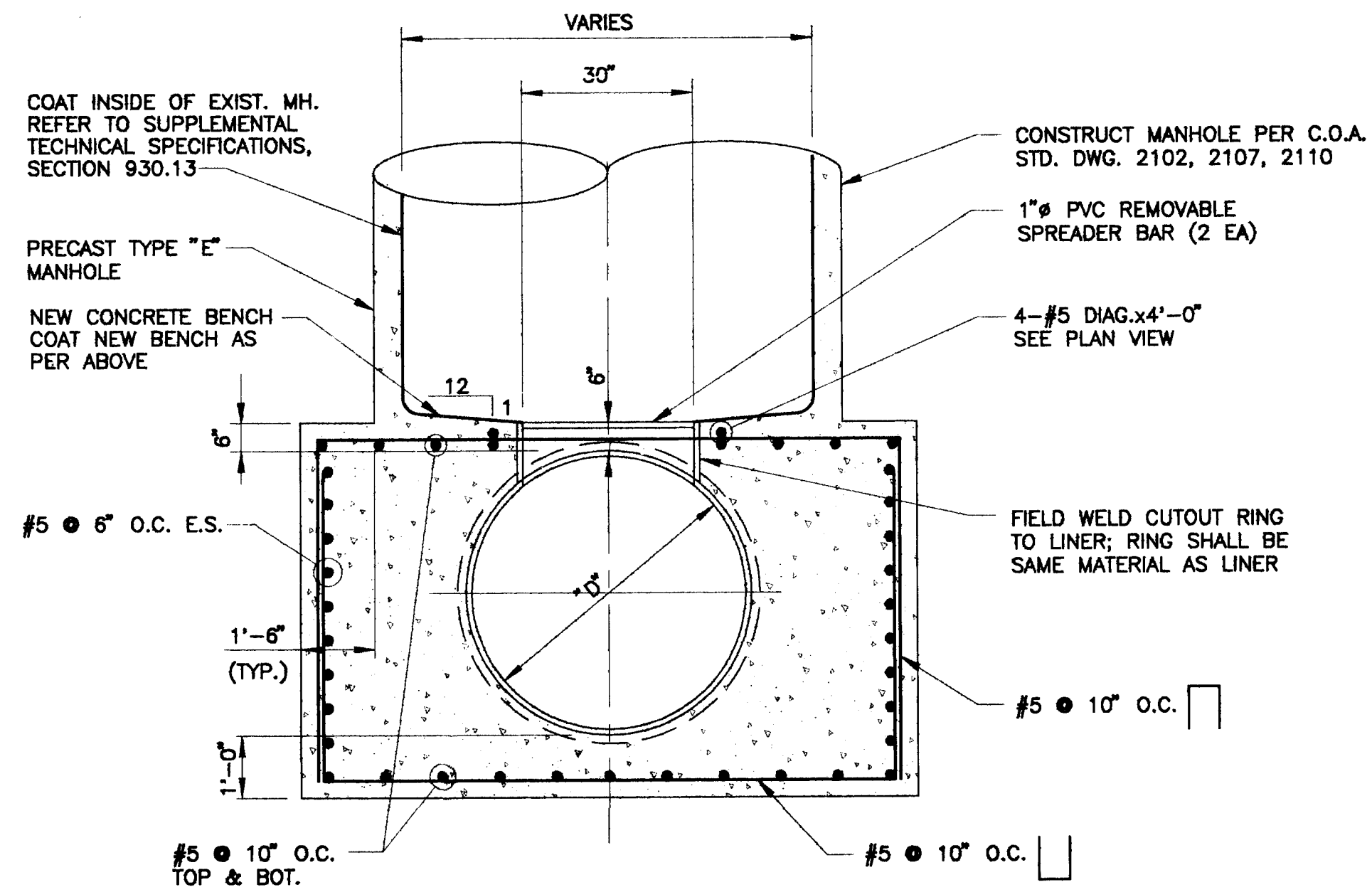
SECTION A-A



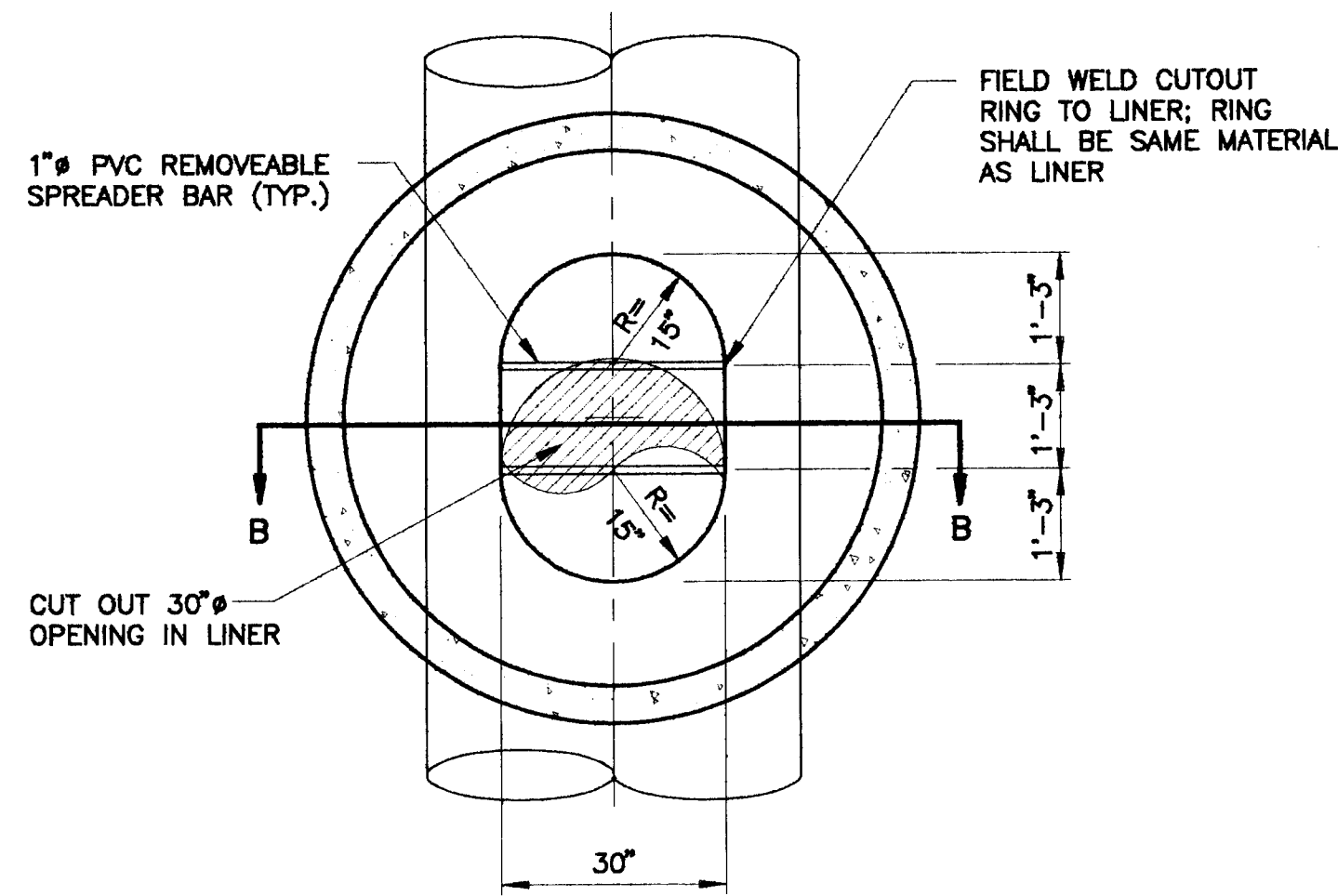
PLAN

### REHABILITATED MANHOLE

SCALE: 1" = 2'



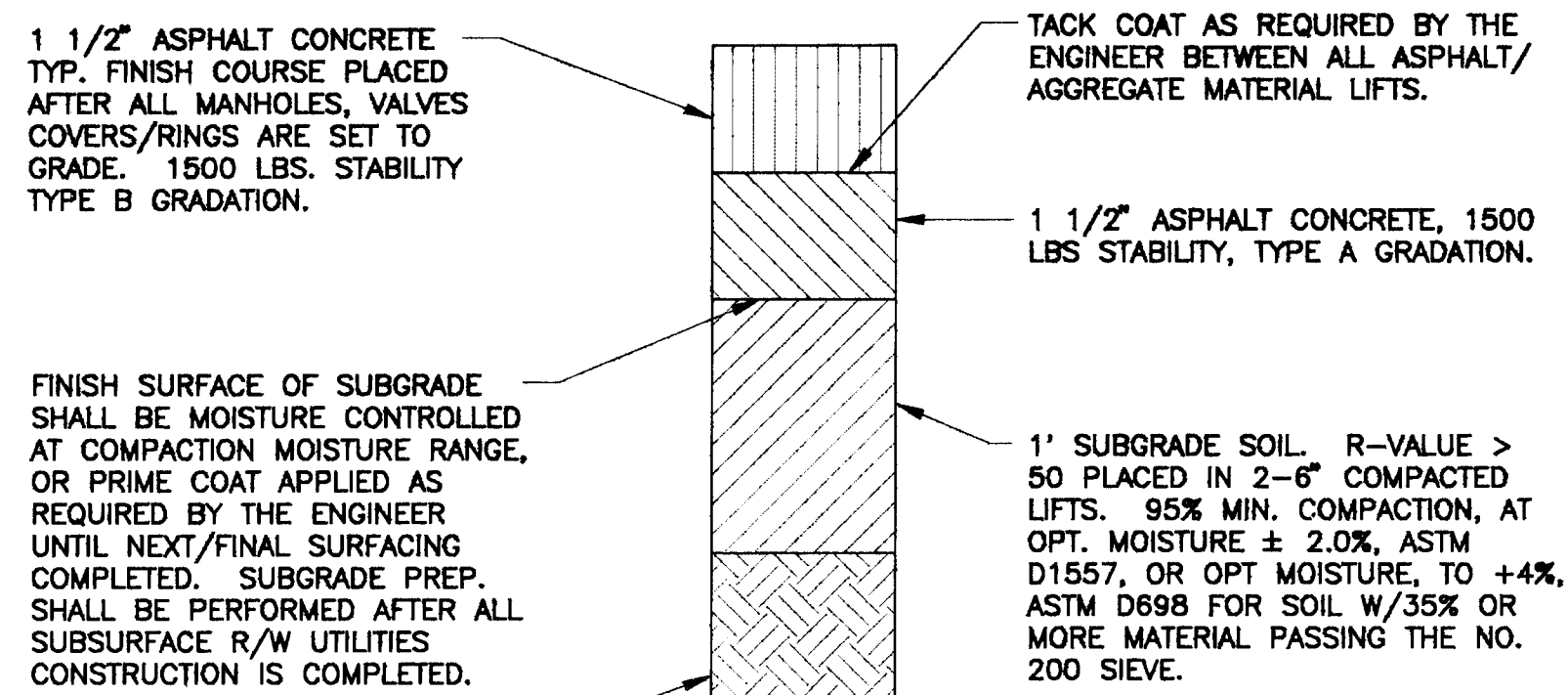
SECTION B-B



PLAN

### NEW MANHOLE

SCALE: 1" = 2'



### 14TH STREET PAVEMENT SECTION

EXISTING MANHOLE REHABILITATION TABLE					
MH ID #	SHEET NO.	STATION	MH TYPE	MH DIA.	SEDIMENT DEPTH
P10-71	3	STA. 22+48.55	A	N/A	0.0 FT.
P10-171	3	STA. 17+28.55	A	N/A	0.0 FT.
K13-364A	5	STA. 0+75.00	(1)	(1)	(2)
K13-266	5	STA. 3+89.15	"A"	8'	0.3 FT.
K13-261	5	STA. 7+39.31	"C-A"	6'	0.3 FT.
K13-166	6	STA. 10+98.69	"C"	4'	0.4 FT.
K13-162	6	STA. 13+81.89	(1)	(1)	0.4 FT.
K13-65	6	STA. 14+68.25	"C"	4'	0.5 FT.
H13-754	7	STA. 7+24.43	"C"	8'	0.5 FT.
H13-656	7	STA. 10+19.43	JCT BOX/"C"	4'	(2)

#### GENERAL NOTES:

MANHOLE TYPES & DIAMETERS WERE TAKEN FROM AS-CONSTRUCTED RECORD DRAWINGS. SEDIMENT DEPTHS WERE MEASURED DURING FIELD SURVEYS PERFORMED IN JULY, 1993. SEE SHEET 12 FOR AS-CONSTRUCTED MANHOLE DETAILS

- (1) MANHOLE TYPES & DIAMETERS NOT AVAILABLE FROM AS-CONSTRUCTED RECORD DRAWINGS.
- (2) SEDIMENT DEPTHS NOT AVAILABLE FROM FIELD SURVEY.

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ENGINEERING GROUP

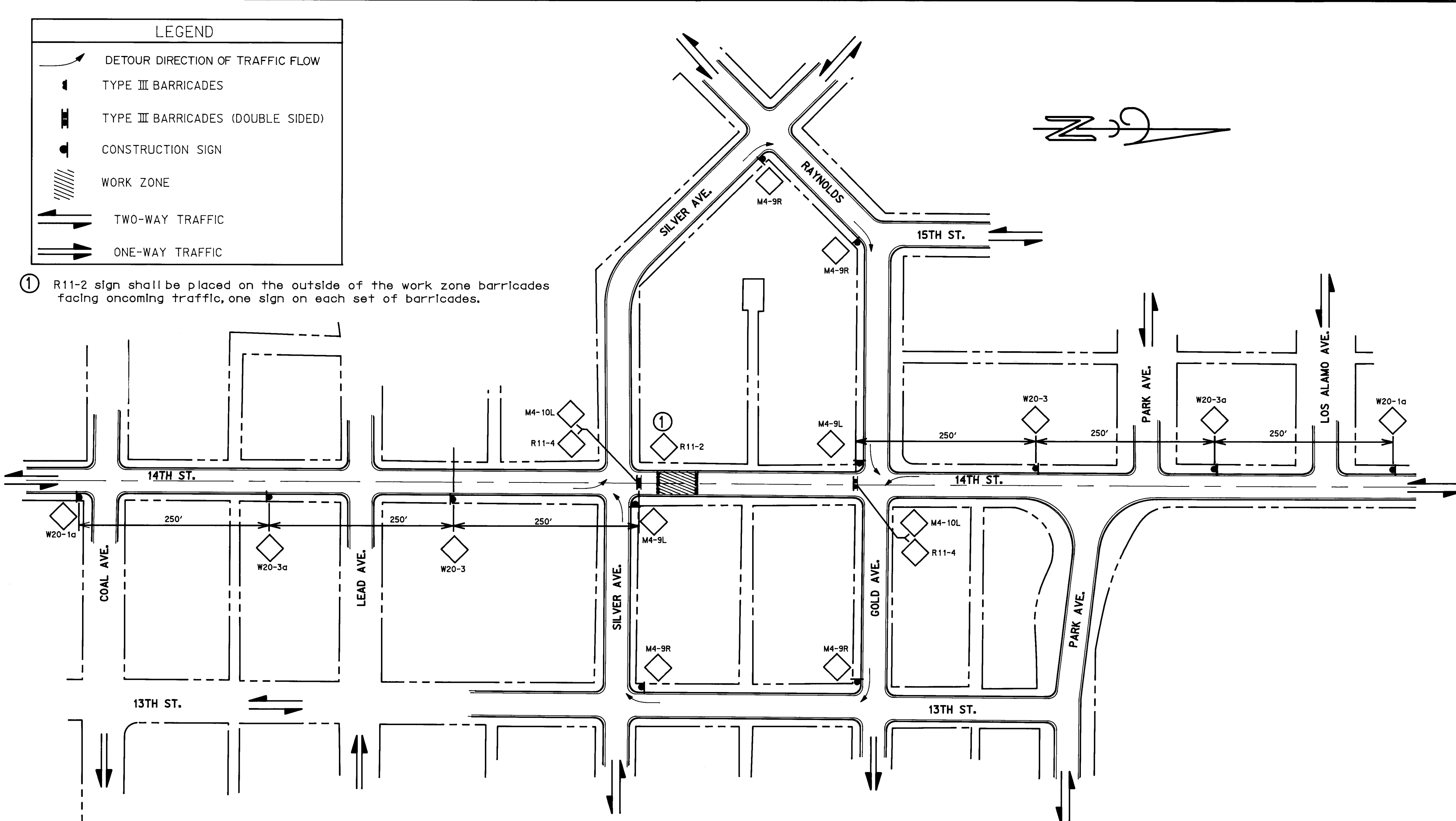
### TITLE: SEWER REHABILITATION DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION	WLA 040 2/10/95		WASTE WATER	WLA 040 2/10/95	
HYDROLOGY	WLA 040 2/10/95				

PROJECT NO.	MAP NO.	SHEET OF
4314.92		8 12

SCANNED BY  
BY LASON





LEGEND

DETOUR DIRECTION OF TRAFFIC FLOW

TYPE III BARRICADES

①

R11-2 sign shall be placed on the outside of the work zone barricades facing oncoming traffic, one sign on each set of barricades.

SIGN QUANTITIES

SIGN CODE	NO. OF SIGNS	TOTAL SIGN AREA SQ. FT.	MOUNTING REQUIREMENTS					
			FLANGED CHANNEL			DRIVEDOWN POSTS 0.1345 THICK		PORTABLE SIGN SUPPORT
			2-25 LB/FT.	3-0 LB/FT.	4-0 LB/FT.	2-3/16 X 2-3/16	2-1/2 X 2-1/2	
M4-9L-30	2	10	-	-	-	-	-	2
M4-9R-30	4	20	-	-	-	-	-	4
M4-10L-48	2	12	-	-	-	-	-	0
R11-2-48	2	20	-	-	-	-	-	0
R11-4-60	2	30	-	-	-	-	-	0
W20-1a-48	2	32	-	-	-	-	-	2
W20-3a-48	2	32	-	-	-	-	-	2
W20-3-48-250	2	32	-	-	-	-	-	2
TOTAL	18	188						12

QUANTITY SUMMARY

ITEM NO.	BID ITEM	UNITS	TOTAL
702000	CONSTRUCTION SIGNING	SQ. FT.	188
702145	PORTABLE SIGN SUPPORTS	EACH	12
702215	BARRICADE TYPE III (8 FT.)	EACH	8

SIGN DETAILS

W20-1a-36

W20-3a-36

W20-3-36-250

M4-9L-30

M4-9R-30

M4-10L-36

R11-2-48

R11-4-60

GENERAL NOTES

- Contractor must obtain from Constr.Coordination an excavation/barricading permit before engaging in any constr.,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 with the understanding that a permit shall be obtained within 24 to 48 hrs.
- Three (3) working days prior to commencing constr., the contractor shall prepare and submit to the Constr.Coordination Division a detailed constr.schedule. Refer to Section 19 of the specifications.
- Three (3) working days prior to the commencement of each phase of construction, the contractor shall obtain a barricade permit for the next phase from the Construction Coordination Division.
- Construction shall not begin unless a traffic control plan has been approved and verified by Construction Coordination.
- 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.
- All construction traffic control devices shall comply with the latest edition of the MUTCD. The Contractor shall install, service and maintain all such devices throughout the length of the project (24 hrs per day, 7 days per week), and shall not remove or alter them in any way without the approval of Construction Coordination, per Section 6A-4 of the MUTCD, latest edition.
- Initial construction traffic control set-up shall be done by an American Traffic Safety Services Association (ATSSA) certified worksite traffic supervisor. The maintenance and servicing shall be done by an ATSSA certified worksite traffic supervisor or equivalent.
- Contractor shall not begin work before 8:30 a.m. or end work after 4:00 p.m. without the approval of Construction Coordination per MUTCD Section 6A-4.
- Equipment or materials shall not be stored within 15 feet of a traveled traffic lane during non-working hours without the approval of Construction Coordination.
- All existing signs in conflict with the construction signs shall be removed, relocated or covered in place, as approved by Construction Coordination. The contractor shall store and reinstall removed or relocated items in a manner approved by Construction Coordination.
- The advanced 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 6A-4 of the MUTCD, latest edition.
- Two flags shall be mounted on top of all construction signs, and type 'A' flashing warning lights shall be required on all night-time construction signs.
- The contractor shall maintain at least one lane open during working hours, and both lanes open during night time, weekends and holidays for all cleaning, televising and grouting activities. 14th Street may be fully closed for a maximum of 60 LF in order to install the Interceptor lining.
- The contractor shall maintain access to all residences on 14th Street throughout the project duration.
- At least 24 hours prior to the start of construction, the contractor shall notify adjacent residents, Albuquerque public schools, police, fire, hospitals, and transit authority of activities or closures impacting the project area.
- Construction signs shall not be displayed to traffic more than 24 hours prior to the actual start or 24 hours after completion of construction activities. Signs present beyond the 24 hour limitation must be covered or laid on their sides. No additional compensation will be made for covering or laying signs on their side.
- Adjustments to the details of this traffic control plan and requirements, including construction signing, may be necessary due to construction activities, as approved by Construction Coordination.
- The 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 Specification, as well as other Sections.
- 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.
- For any details not shown see City of Albuquerque standard traffic control plan sheets.
- All drawings are schematic only and not to scale.

RECORD DRAWING

THIS IS A RECORD DRAWING OF THE FACILITIES IDENTIFIED IN THE TITLE BLOCK ONLY AND HAS BEEN PREPARED IN PART ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ENGINEER/ARCHITECT AND OTHER (S) WILL NOT BE RESPONSIBLE FOR ANY ERROR (S) OR OMISSION (S) WHICH HAVE BEEN INCORPORATED INTO THIS DRAWING. ACTUAL CONDITIONS WILL VARY SOMEWHAT FROM THE CONDITIONS SHOWN HEREON AND AT SOME LOCATIONS THE VARIANCE MAY BE LARGE. IF THE PRECISE LOCATION OF ANY FACILITY IS REQUIRED, THE FACILITY SHOULD BE FIELD LOCATED IN THE PRESENCE OF AN EMPLOYEE OF THE DISTRICT OR THE OWNER (S) OF THE UTILITIES INVOLVED.

SCANNED BY LASO

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING GROUP

J&K Associates  
P.E. & S.E. License

TITLE:  
14TH ST. INTERCEPTOR REHABILITATION  
TRAFFIC CONTROL PLANS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					

DESIGNED BY: JAK DATE: 01/19/95  
DRAWN BY: DVB DATE: 01/20/95  
CHECKED BY: DDP DATE: 01/23/95

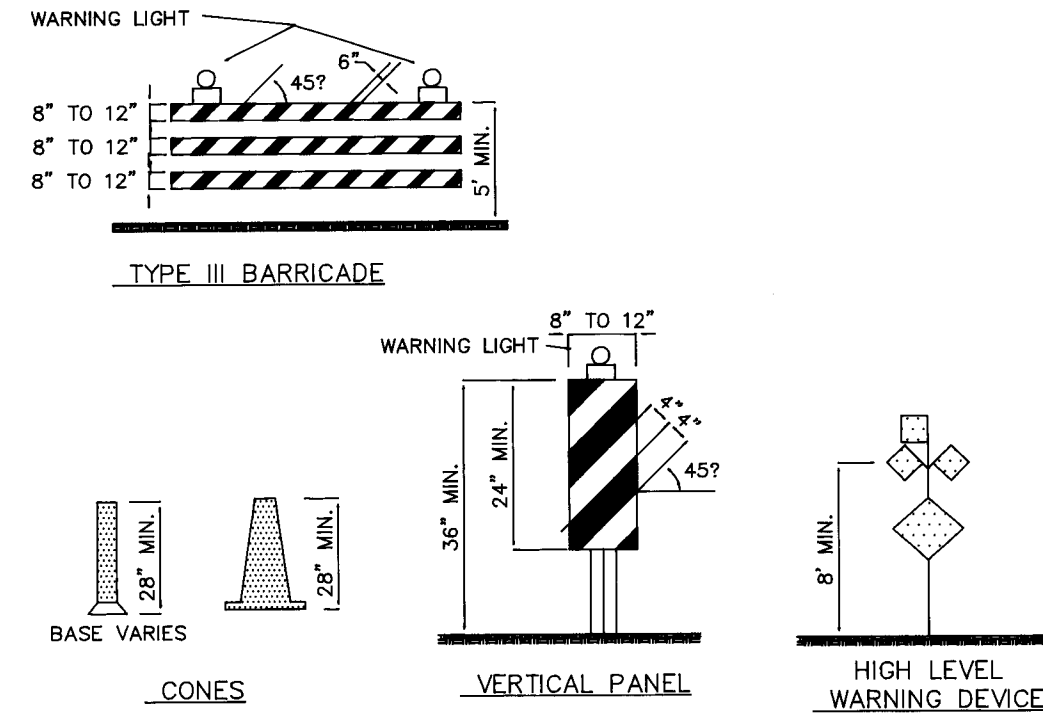
PROJECT NO. 4314.92  
MAP NO. K-13  
SHEET 9 OF 12

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- 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 WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.
- 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.
- 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.
- CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- 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.
- 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 6A-4 OF THE MUTCD, LATEST EDITION.
- 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.
- 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.
- 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.
- 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 6A-4.
- CONTRACTOR SHALL NOT BEGIN WORK BEFORE 8:30 A.M. OR END WORK AFTER 4:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
- 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.
- 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.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
- CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
- CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH. WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
- 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 6A-4 OF THE MUTCD, LATEST EDITION.
- 24 HOURS PRIOR TO OCCUPYING 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.
- ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

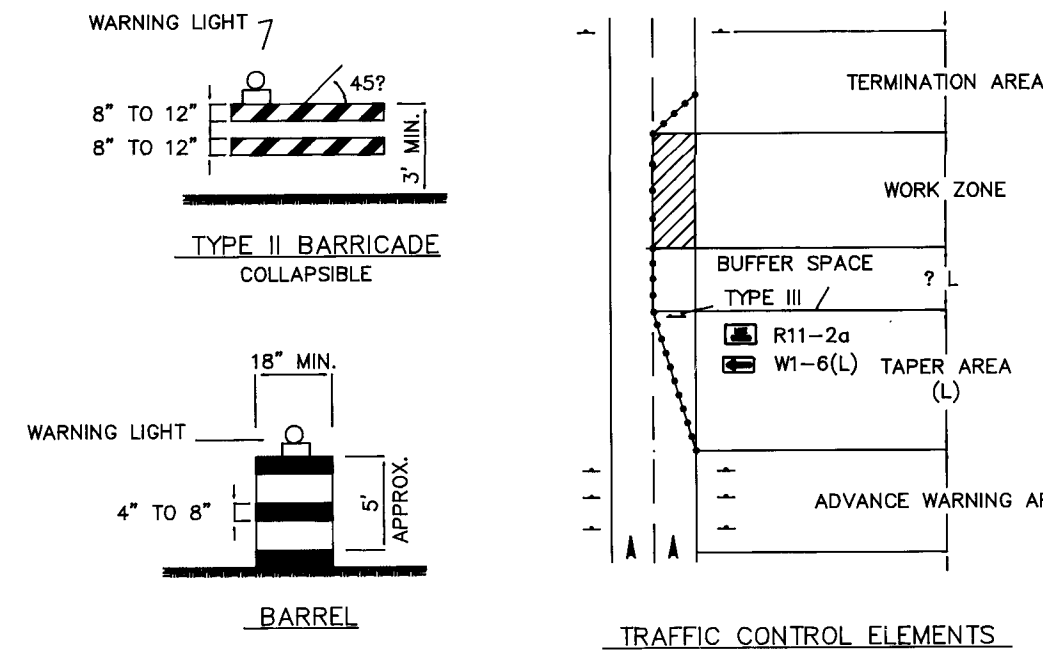
- EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.
- CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
  - 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.
- 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.
- ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.
- TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

PROJECT CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES



LEGEND

- WORK AREA
- 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 LIMIT OF THE STREET
- TAPER LENGTH - SEE CHART BELOW
- THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.



SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET	
	10' LANE	11' LANE	12' LANE		ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING FOR ADVANCE WARNING SIGN SERIES

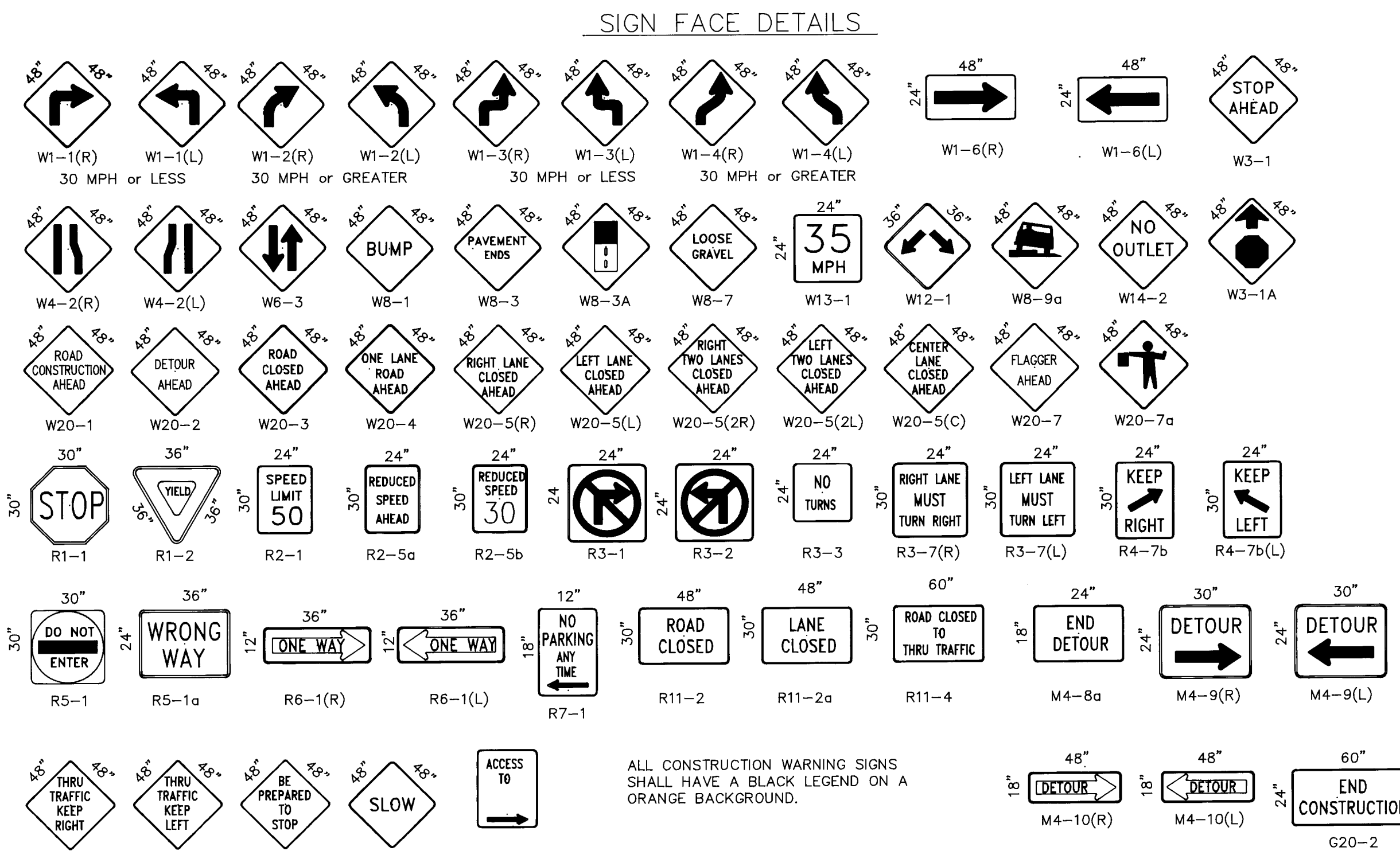
SPEED	MINIMUM DISTANCE IN FEET	FROM LAST SIGN TO TAPER
MILES PER HOUR	BETWEEN SIGNS	
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	? L MINIMUM
SHOULDER TAPER	? L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSIDE TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	$L = W \times S$
L = TAPER LENGTH	
W = WIDTH OF OFFSET IN FEET	
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH	



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

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.

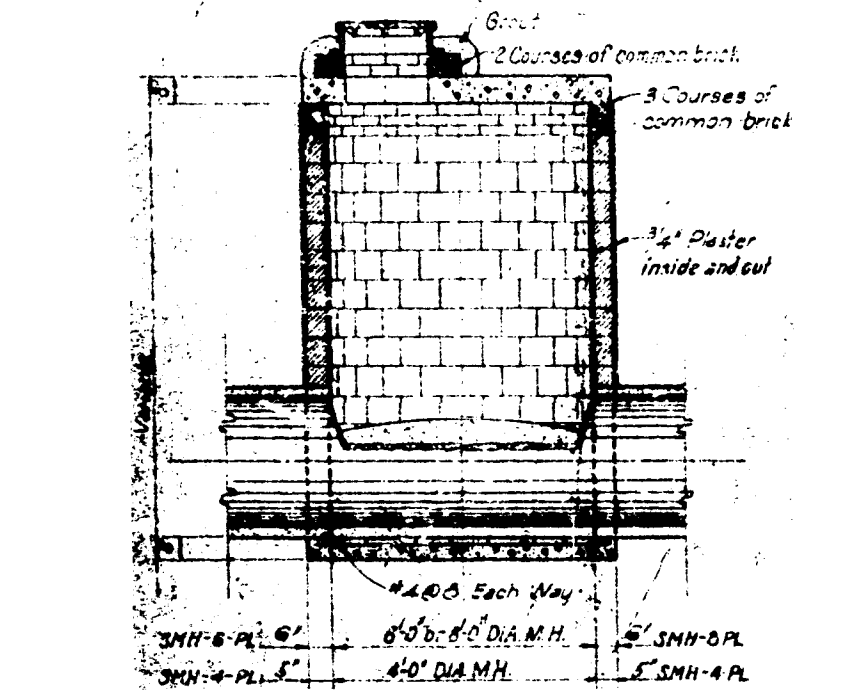
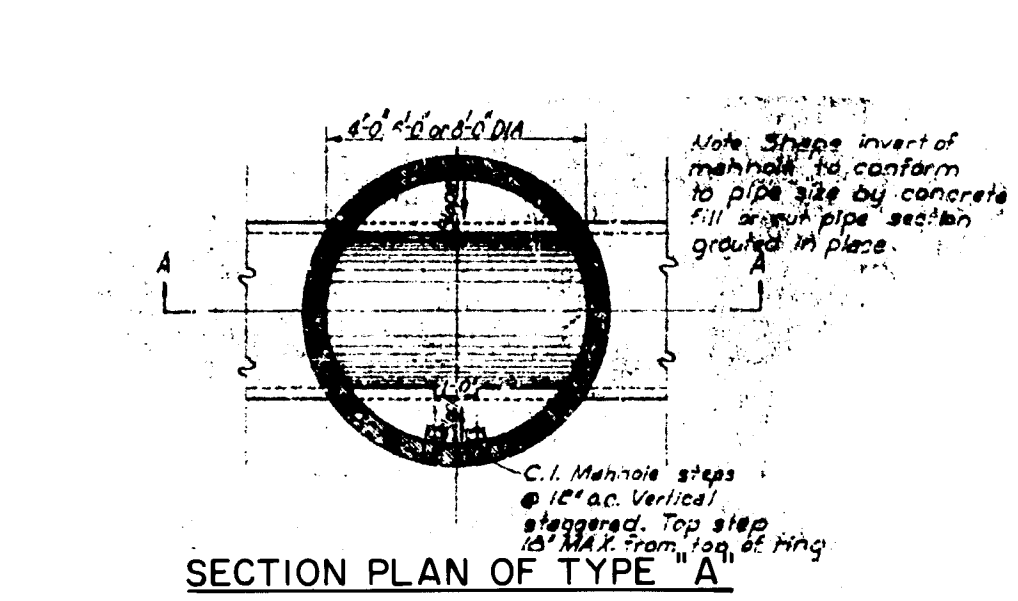
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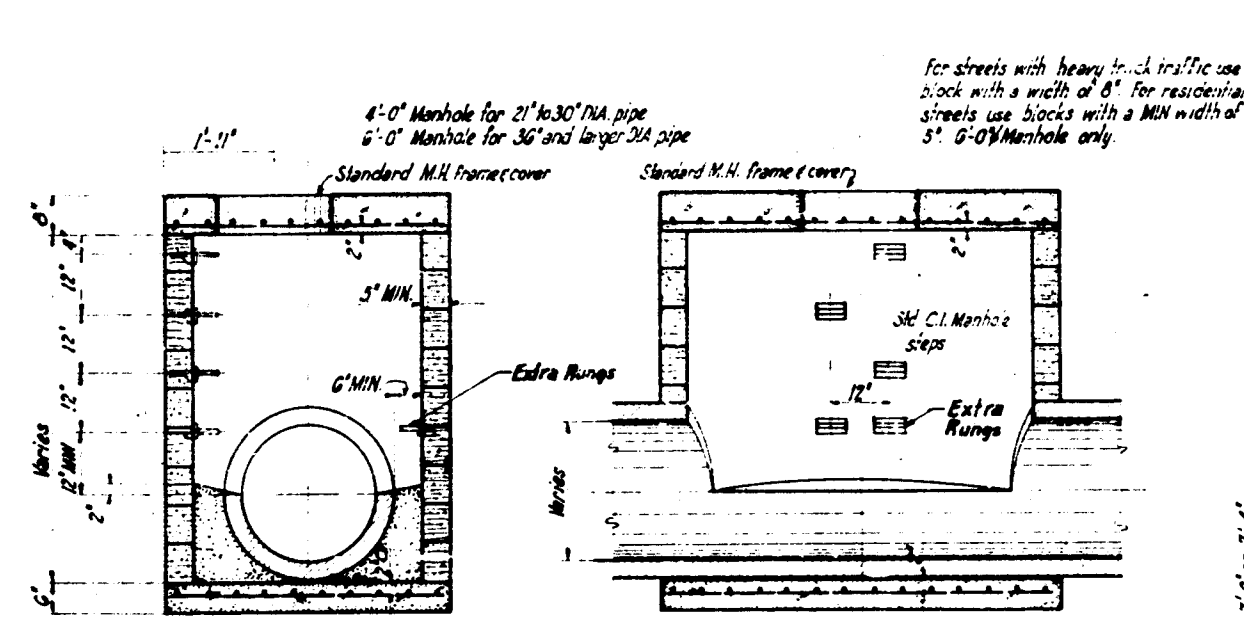
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER		
TRANSPORTATION			WASTE WATER		
HYDROLOGY					
PROJECT NO. 4314.92		MAP NO.		SHEET OF 10 12	



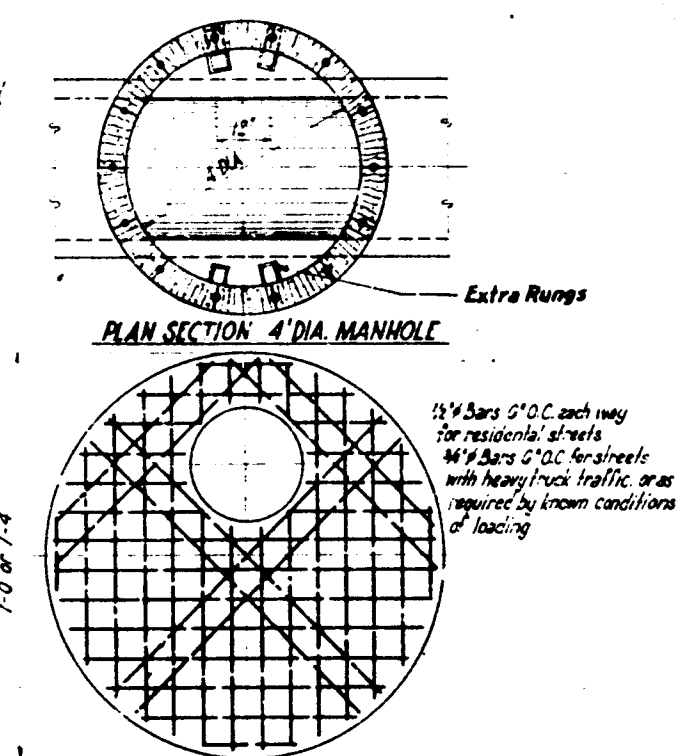
04-20-91  
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SECTION A-A TYPE "A" MANHOLE

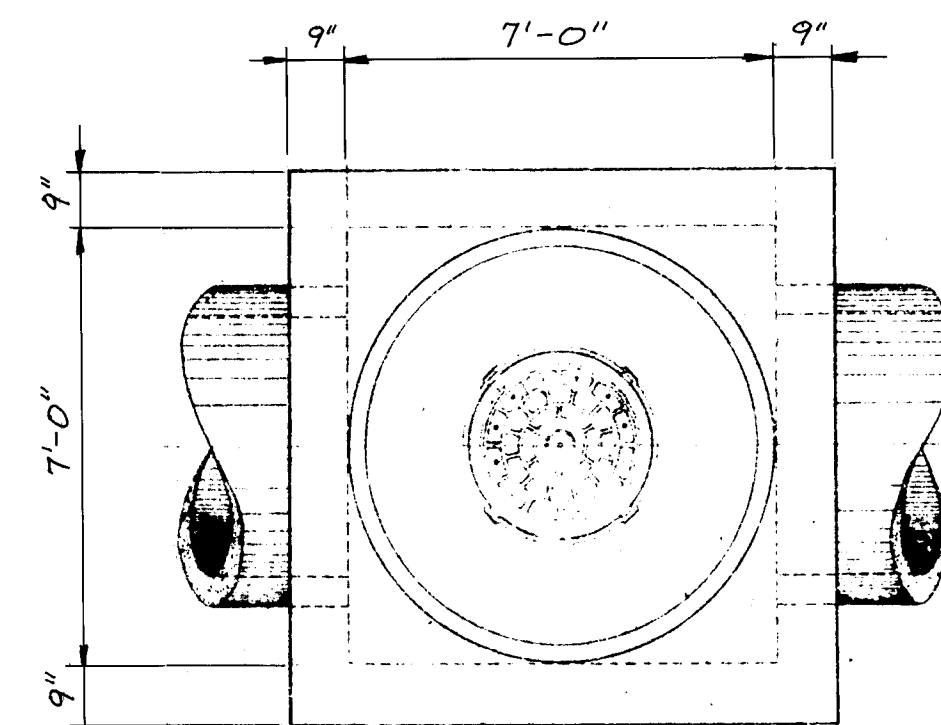


SECTION 4' DIA. MANHOLE SECTION 6' DIA. MANHOLE

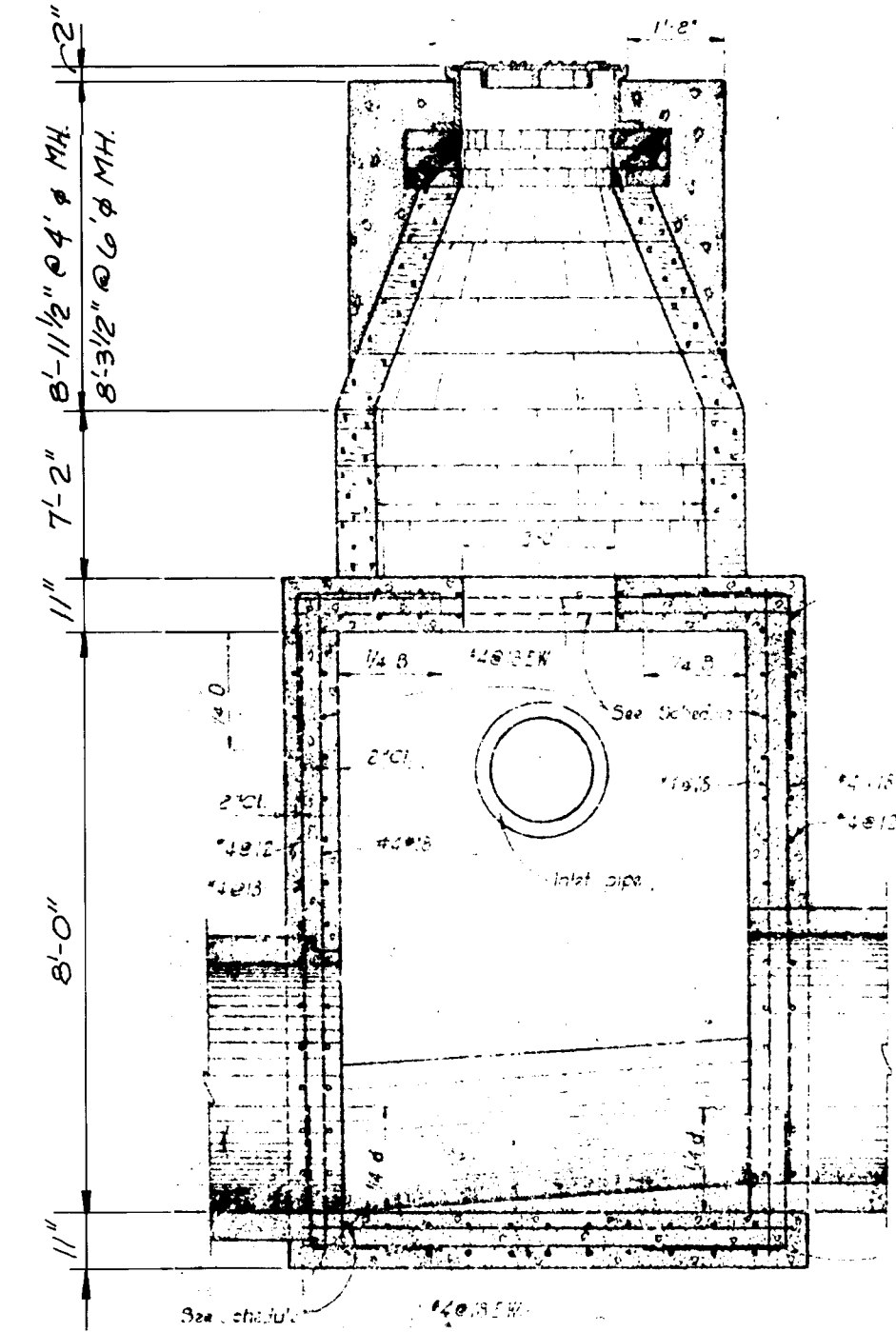


PRECAST CONC. COVER REINFORCING

SPECIAL SANITARY SEWER MANHOLE TYPE "C"



PLAN



SECTION

JUNCTION BOX DETAILS

NOTE:  
THE SANITARY SEWER MANHOLE DETAILS SHOWN ON THIS SHEET ARE REPRODUCED FOR THE CONTRACTOR'S INFORMATION ONLY. THE DETAILS SHOWN WERE TAKEN FROM THE AS-CONSTRUCTED DRAWINGS FOR THE EXISTING SANITARY SEWER INTERCEPTORS. THE CONTRACTOR SHALL VERIFY THE MANHOLE TYPES AND DIAMETERS PRIOR TO CONSTRUCTION.

SCANNED BY  
BY LASON

RECORD DRAWING  
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314.92 129

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: <b>EXISTING SEWER MANHOLE DETAILS</b>					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN			WATER	Ray	2/2/95
TRANSPORTATION	WASTE WATER				
HYDROLOGY					
DESIGNED BY	WSL	DATE	2-1-95		
DRAWN BY	MMW	DATE	2-1-95		
CHECKED BY	ECL	DATE	2-1-95		
PROJECT NO.	4314.92	MAP NO.		SHEET	12 OF 12

ENGINEER'S SEAL  
WILLIAM S. LASON  
REGISTERED PROFESSIONAL ENGINEER  
11771  
2-13-95

AS BUILT INFORMATION	
CONTRACTOR	
WORK STAGED BY	
FIELD ACCEPTANCE BY	
DESIGNATION BY	
DRAWINGS CORRECTED BY	
MICRO-FILM INFORMATION	
RECORDED BY	
NO.	
DATE	