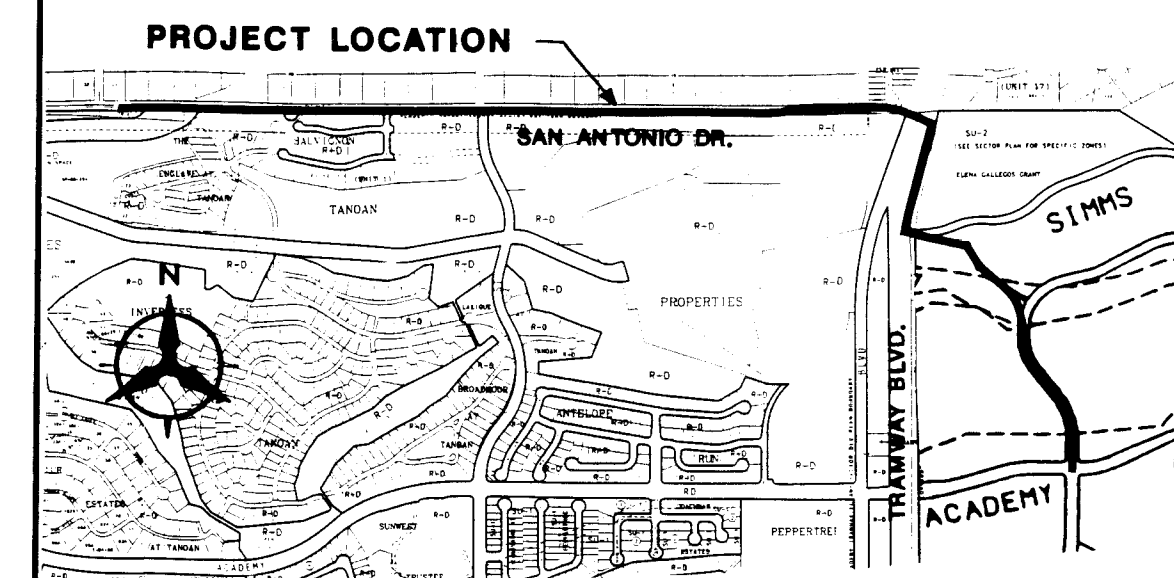


CONSTRUCTION PLANS
FOR
SAN ANTONIO CORRIDOR WATERLINE
PHASE 1A
(AS-BUILT)
ALBUQUERQUE, NEW MEXICO

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VICINITY MAP
NOT TO SCALE
E-23 & F-23

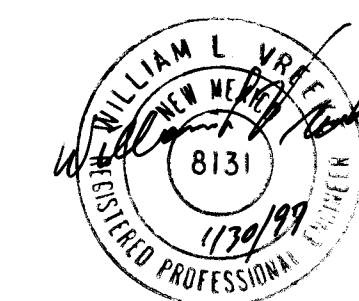
NOTICE TO CONTRACTORS

- 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 EDITION AND SHALL INCLUDE UPDATE No. 4 REVISIONS, DELETIONS, AND ADDITIONS DATED JAN. 28, 1993.
- FIVE WORKING DAYS PRIOR TO ANY EXCAVATION, THE 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 LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- 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 NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED

- ☒ 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 DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☒ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

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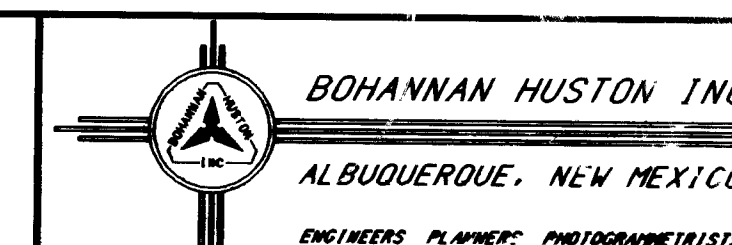
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REV	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

APPROVAL OF REVISIONS

APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
DATE 4-3-97

BHI JOB NO. 94163.20



APPROVED FOR
CONSTRUCTION

C.E.

PROJECT NUMBER 5004.90

SHEET 1 OF 17

GENERAL NOTES

1. WHEN CONFLICTS EXIST BETWEEN THE "STANDARD SPECIFICATIONS" AND THE "PLANS" ("PLANS" SHALL MEAN THE SHEETS NUMBERED 1 OF 17 THROUGH 17 OF 17 ENTITLED "CONSTRUCTION PLANS FOR SAN ANTONIO CORRIDOR WATERLINE PHASE 1A, THE CONSTRUCTION OBSERVER SHALL BE NOTIFIED IMMEDIATELY FOR RESOLUTION. IN GENERAL, THE PLANS SHALL GOVERN.
2. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS GOVERNING CONSTRUCTION SAFETY AND HEALTH.
3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
4. FIVE (5) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.
5. ALL ELECTRICAL, TELEPHONE, CABLE TV, AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS.
6. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT AND MAINTAIN IN SERVICE, ALL EXISTING UTILITIES.
7. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
8. THE CONTRACTOR SHALL BE REQUIRED TO CONFINE ITS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR PUBLIC RIGHT-OF-WAY OR EASEMENTS TO PRESERVE EXISTING VEGETATION AND PRIVATE PROPERTY. THE CONTRACTOR SHALL AT ALL TIMES TRY TO MINIMIZE THE DISTURBANCE TO EXISTING VEGETATION.
9. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, TOPSOIL DISTURBANCE AND EXCAVATION PERMITS, ETC.)
10. ALL TRENCHES AND EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED ACCORDING TO OSHA CONSTRUCTION SAFETY AND HEALTH STANDARDS. JOB SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
11. BLASTING USING EXPLOSIVES SHALL NOT BE PERMITTED. THE USE OF OTHER TECHNIQUES SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER AND THE COUNTY OF BERNALILLIO WHEN CONSTRUCTION IS IN COUNTY PROPERTY.
12. ALL STATIONING IS BASED ON WATERLINE CENTERLINE, UNLESS OTHERWISE NOTED.
13. ALL UTILITIES AND UTILITY SERVICE LINES OR SLEEVES SHALL BE INSTALLED PRIOR TO PAVING.
14. IN AREAS WHERE THE WATERLINE CROSSES (NOT PARALLEL TO) EXISTING PAVEMENT, CURB & GUTTER, BLOCK WALL AND OTHER SURFACE FEATURES (EXCEPT FOR THE CROSSING OF SIMMS PARK ROAD) THE CONTRACTOR HAS THE OPTION TO REMOVE AND REPLACE THE SURFACE FEATURES IN KIND OR TO USE BORING AND/OR JACKING TO INSTALL THE WATERLINE.
15. ALL ITEMS WHICH ARE DESIGNATED AS "REMOVE AND REPLACE" SHALL BE REPLACED IN KIND TO MATCH EXISTING LOCATIONS AND ELEVATIONS.
16. THE CONTRACTOR SHALL REPLACE IN KIND ALL EXISTING LANDSCAPING, WALLS, AND FENCES REMOVED OR DAMAGED DURING CONSTRUCTION.
17. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EXISTING HOMES AT ALL TIMES.

EARTHWORK:

1. SITE STRIPINGS SHALL BE WINDROWED ADJACENT TO WATERLINE TRENCH EXCAVATIONS AS DIRECTED BY THE CONSTRUCTION OBSERVER. STRIPINGS SHALL BE PLACED OVER THE BACKFILLED WATERLINE TRENCHES.

WATERLINES AND WATERSERVICE REQUIREMENTS

1. ALL FITTINGS SHALL HAVE RESTRAINED JOINTS. RESTRAINED JOINTS SHALL ALSO BE PROVIDED AS SPECIFIED IN THE PLANS AND IN TABLE 1 SHEET 3.
2. ALL SERVICES SHALL BE COPPER.
3. TEMPORARY WATERLINE CONNECTIONS FOR CONSTRUCTION PURPOSES SHALL BE INCIDENTAL TO THE PROJECT.
4. THE CONTRACTOR SHALL KEEP OR DISPOSE OF ALL REMOVED WATERLINES AND FITTINGS. COST IS INCIDENTAL TO PROJECT.
5. CONTRACTOR SHALL PROVIDE FIVE (5) WORKING DAYS NOTICE TO COA WATER UTILITY DIVISION BEFORE WATER SHUT OFF.

EXISTING UTILITIES

THESE DRAWINGS REFLECT INFORMATION ON UTILITIES GATHERED BY SITE INSPECTION, DISCUSSIONS WITH LOCAL UTILITIES, ENGINEERING OFFICIALS, AND PREVIOUS CONSTRUCTION DRAWINGS PROVIDED TO OR OBTAINED BY THE ENGINEER. IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES IN THE IMMEDIATE VICINITY OF THE PROJECT MAY BE SLIGHTLY DIFFERENT FROM THE LOCATION SHOWN ON THIS DRAWING. IF ADDITIONAL LINES ARE ENCOUNTERED, THEY SHALL BE EXPOSED AND IDENTIFIED BY THE CONTRACTOR. WHERE ADDITIONAL LINES AND/OR DIFFERING LOCATIONS ARE ENCOUNTERED, THE CONTRACTOR SHALL REQUEST THAT THE ENGINEER MAKE A RULING AS TO ANY NECESSARY CHANGE OF MATERIALS, RE-ROUTING, ABANDONING OR RELOCATING OF SUCH LINES. GAS COMPANY, PNM, US WEST AND/OR CABLE TV SHALL BE THE SOLE AUTHORITY IN RULING ON THE DISPOSITION OF THEIR EXISTING LINES. ALL LINES ENCOUNTERED THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED TO CLEAR CONSTRUCTION (IF ACTIVE) AND SHALL BE REMOVED (IF INACTIVE) BY THE CONTRACTOR UNDER THIS CONTRACT. ALL BIDDERS ARE CAUTIONED TO INVESTIGATE SITE CONDITIONS BEFORE SUBMITTING THEIR BIDS. ALL EXISTING PIPING SHALL HAVE A MINIMUM EARTH COVERAGE AND THIS SHALL BE ADJUSTED AS REQUIRED TO PROVIDE MINIMUM COVERAGE DUE TO NEW GRADES OR CONSTRUCTION. CONTRACTOR SHALL PAY FOR ANY AND ALL COSTS OF PERMITS, LINE EXTENSIONS, FIRELINES, METER INSTALLATION, ETC., AS REQUIRED BY LOCAL GOVERNING UTILITIES ENGINEERING OFFICIALS.

MISCELLANEOUS NOTES FOR CONSTRUCTION WITHIN HIGH DESERT SUBDIVISION

1. ALL BOULDERS ENCOUNTERED DURING THE COURSE OF CONSTRUCTION SHALL BE PRESERVED AND PLACE LINEARLY (DO NOT "PILE") ALONG THE ADJACENT RIGHT-OF-WAY FOR LATER USE IN LANDSCAPING WORK.
2. CONTRACTOR SHALL MAINTAIN IN PLACE ALL EXISTING FENCES AND KEEP ALL GATES LOCKED AT NIGHT AND WHEN NOT PRESENT ON SITE.
3. SITE STRIPINGS SHALL BE WINDROWED ADJACENT TO WATERLINE TRENCH EXCAVATIONS AS DIRECTED BY THE CONSTRUCTION OBSERVER. STRIPINGS SHALL BE PLACED OVER THE BACKFILLED WATERLINE TRENCHES.

WATERLINE RECLAMATION NOTES

- A. SEE SUPPLEMENT TECHNICAL SPECIFICATION 1013 ENTITLED "HIGH DESERT COMMUNITY RESTORATION AND ENHANCEMENT PLAN" FOR RESTORATION AND ENHANCEMENT PLAN SPECIFICATIONS.
- B. ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE SPECIFICATIONS PROVIDED IN THE ABOVE MENTIONED SPECIFICATION. IF THE SOIL IMPRINTING METHOD IS NOT POSSIBLE DUE TO SLOPE CONSTRAINTS, RESTORATION SHOULD BE COMPLETED IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATION FOR SEEDING.
- C. WORK AREAS SHALL BE LIMITED TO DESIGNATED ROAD RIGHT-OF-WAY AND WATERLINE EASEMENTS AS SHOWN ON THE PLANS. WORK OUTSIDE OF THE RIGHT-OF-WAY OR WATERLINE EASEMENTS IN EITHER CITY OPEN SPACE OR HIGH DESERT PROPERTY IS NOT ALLOWED WITHOUT WRITTEN CONSENT FROM CITY OPEN SPACE DIVISION AND HIGH DESERT INVESMENT CORPORATION.
- D. COMMENTS OR QUESTIONS CONCERNING THE RESTORATION SPECIFICATIONS SHALL BE DIRECTED TO EITHER THE CONSTRUCTION OBSERVER OR THE LANDSCAPE ARCHITECT.
- E. ANY SUBSTITUTION OF PLANT SEED MATERIAL MUST BE APPROVED BY THE CONSTRUCTION OBSERVER. ADDITIONALLY, IF THE SUBSTITUTE MATERIAL IS TO BE USED IN CITY OPEN SPACE IT MUST BE APPROVED BY CITY OPEN SPACE DIVISION.
- F. THE CONTRACTOR SHALL WARRANTY THE RECLAMATION WORK FOR A PERIOD OF TWO (2) GROWING SEASONS, CONTINGENT UPON ACCEPTANCE BY HIGH DESERT AND THE CITY OPEN SPACE DIVISION.

EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY. THIS MAY BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AT THE CONSTRUCTION LIMITS AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
2. 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.
3. THE CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION. THE COST OF REQUIRED EROSION CONTROL MEASURES SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT COST.
4. DURING THE MONTHS OF JULY, AUGUST, OR SEPTEMBER, ANY GRADING WITHIN OR ADJACENT OF A WATERCOURSE DEFINED AS A MAJOR FACILITY SHALL PROVIDE FOR EROSION CONTROL AND THE SAFE PASSAGE OF THE 10-YEAR DESIGN STORM RUNOFF DURING THE CONSTRUCTION PHASE.

CONSTRUCTION SIGNING: UNLESS GOVERNED BY A SPECIFIC PLAN, THE FOLLOWING NOTES APPLY:

1. ALL BARRICADES AND SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST DIVISION EDITION.
2. CONTRACTOR SHALL PREPARE A CONSTRUCTION SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC DIVISION, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS. FOR WORK WITHIN BERNALILLO COUNTY, THE PLAN SHALL BE APPROVED BY THE BERNALILLO COUNTY TRAFFIC CONTROL MANAGER.
3. CONTRACTOR SHALL MAINTAIN ALL BARRICADES AND SIGNS AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADES AT THE END AND BEGINNING OF EACH DAY.

WORK WITHIN BERNALILLO COUNTY RIGHT-OF-WAY:

1. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS FROM BERNALILLO COUNTY.
2. THE CONTRACTOR SHALL SUBMIT AN APPROVED TRAFFIC CONTROL PLAN PRIOR TO BEGINNING ANY WORK.
 - a. KEEP ONE(1) LANE OF TRAFFIC OPEN WITH FLAGMEN CONTROL.
 - b. CONTACT COUNTY, 72 HOURS MINIMUM ADVANCE, FOR APPROVAL OF TYPICAL FLAGMEN OPERATION.
 - c. REMOVE ALL BARRICADES AND SIGNS AS SOON AS WORK IS COMPLETED.
 - d. RESTRIPE IF EXISTING STRIPING IS DETROYED .
3. ALL TRENCHES SHALL BE BACKFILLED AND COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF MAXIMUM DENSITY, AS DETERMINED BY ASTM D1557.



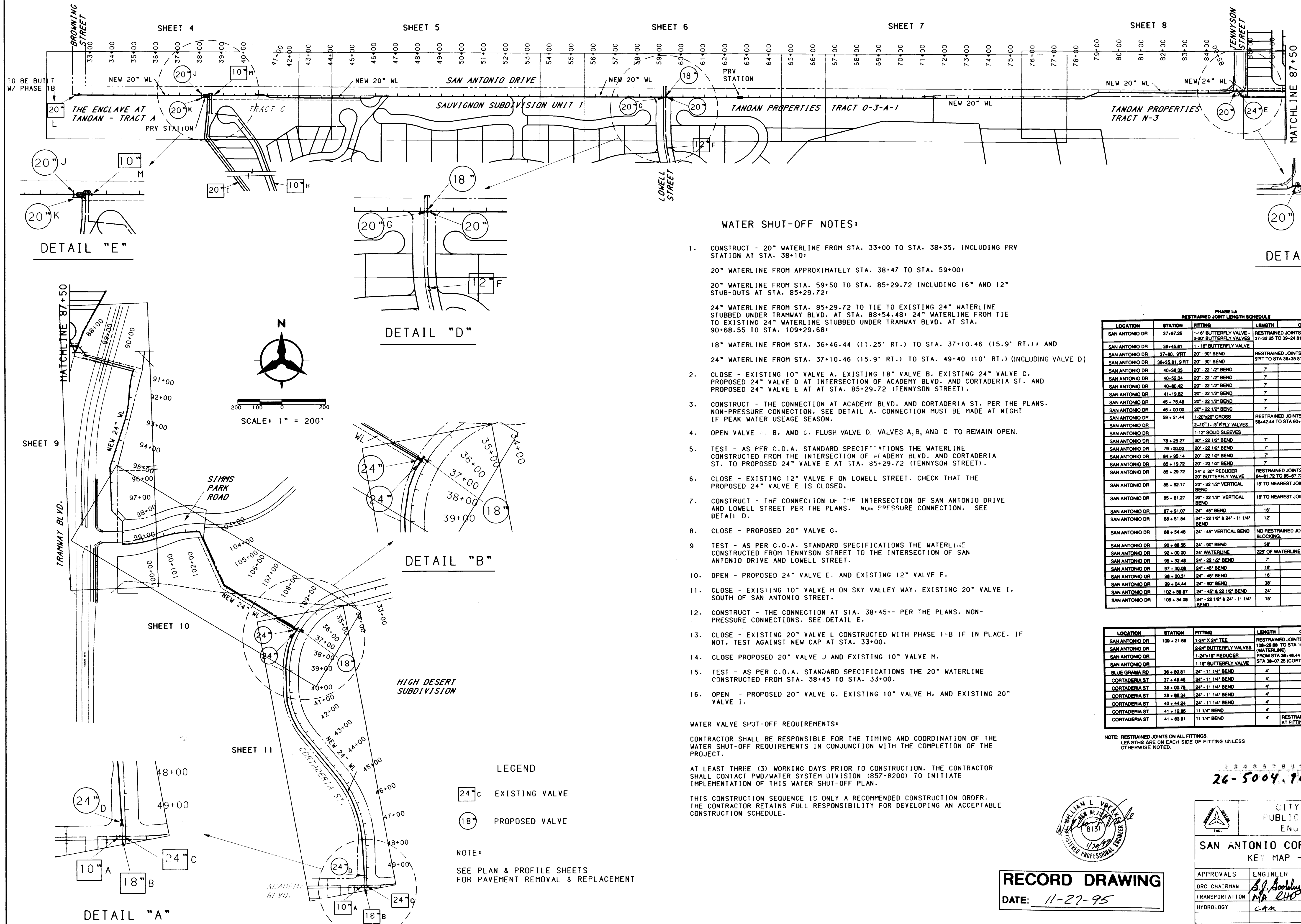
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RECORD DRAWING
DATE: 11-27-95

		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
SAN ANTONIO CORRIDOR WATERLINE PHASE 1A GENERAL NOTES					
APPROVALS	ENGINEER	DATE	DOALS	ENGINEER	DATE
DRC CHAIRMAN	B.G.B.	12/23/94	WATER		
TRANSPORTATION	N.B. RHO	10-28-94	WASTE WATER		
HYDROLOGY	C. Montoya	12-14-94	CITY OPEN SPACE		
DRAWING NO. 5004.90			MAP NO. E21.22.23		
SHEET 2			OF 17		

BH1 JOB NO. 94163.20

SCANNED BY
LASO



PHASE I-A RESTRAINED JOINT LENGTH SCHEDULE				
LOCATION	STATION	FITTING	LENGTH	COMMENTS
SAN ANTONIO DR	37+47.25	1-18" BUTTERFLY VALVE - 2-20" BUTTERFLY VALVES	37-32.25 TO 38+24.81	RESTRAINED JOINTS FROM STA 37-32.25 TO 38+24.81
SAN ANTONIO DR	38+45.81	1-18" BUTTERFLY VALVE	38-35.81, 9RT	RESTRAINED JOINTS FROM STA 38-35.81, 9RT
SAN ANTONIO DR	37+80, 9RT	20" - 90° BEND	7'	RESTRAINED JOINTS FROM STA 37+80, 9RT TO STA 38-35.81, 9RT
SAN ANTONIO DR	40-38.03	20" - 22 1/2° BEND	7'	
SAN ANTONIO DR	40-52.04	20" - 22 1/2° BEND	7'	
SAN ANTONIO DR	40-80.42	20" - 22 1/2° BEND	7'	
SAN ANTONIO DR	41+19.82	20" - 22 1/2° BEND	7'	
SAN ANTONIO DR	45+78.48	20" - 22 1/2° BEND	7'	
SAN ANTONIO DR	48+00.00	20" - 22 1/2° BEND	7'	
SAN ANTONIO DR	59+21.44	1-20" x 20" CROSS	58-42.44 TO STA 60+00.44	RESTRAINED JOINTS FROM STA 58-42.44 TO STA 60+00.44
SAN ANTONIO DR	78+25.27	2-20" x 18" SLIP VALVES	77-00.00 TO STA 79+00.00	
SAN ANTONIO DR	79+00.00	20" - 22 1/2° BEND	7'	
SAN ANTONIO DR	84+96.14	20" - 22 1/2° BEND	7'	
SAN ANTONIO DR	85+18.72	20" - 22 1/2° BEND	7'	
SAN ANTONIO DR	85+29.72	24" x 20" REDUCER, 20" BUTTERFLY VALVE	84+81.72 TO 85+27.72	RESTRAINED JOINTS FROM STA 84+81.72 TO 85+27.72
SAN ANTONIO DR	85+62.17	20" - 22 1/2° VERTICAL BEND	18'	TO NEAREST JOINT
SAN ANTONIO DR	85+81.27	20" - 22 1/2° VERTICAL BEND	18'	TO NEAREST JOINT
SAN ANTONIO DR	87+91.07	24" - 45° BEND	16'	
SAN ANTONIO DR	88+51.54	24" - 22 1/2° & 24" - 11 1/4° BEND	12'	
SAN ANTONIO DR	88+54.48	24" - 45° VERTICAL BEND	NO RESTRAINED JOINTS. USE BLOCKING.	
SAN ANTONIO DR	90+58.55	24" - 90° BEND	38'	
SAN ANTONIO DR	92+00.00	24" WATERLINE	225' OF WATERLINE UNDER POND	
SAN ANTONIO DR	96+32.48	24" - 22 1/2° BEND	7'	
SAN ANTONIO DR	97+30.08	24" - 45° BEND	16'	
SAN ANTONIO DR	98+00.31	24" - 45° BEND	16'	
SAN ANTONIO DR	99+04.44	24" - 90° BEND	38'	
SAN ANTONIO DR	102+58.87	24" - 45° & 22 1/2° BEND	24'	
SAN ANTONIO DR	105+34.08	24" - 22 1/2° & 24" - 11 1/4° BEND	15'	

LOCATION	STATION	FITTING	LENGTH	COMMENTS
SAN ANTONIO DR	100+21.88	1-24" x 24" TEE	99-09.88 TO STA 100+21.88	RESTRAINED JOINTS FROM STA 99-09.88 TO STA 100+21.88
SAN ANTONIO DR		2-24" BUTTERFLY VALVES		(WATERLINE) FROM STA 98+48.44 (BLUE GRAMA) TO STA 98+47.25 (CORTADERIA)
SAN ANTONIO DR		1-24" x 18" REDUCER		
SAN ANTONIO DR		1-18" BUTTERFLY VALVE		
BLUE GRAMA RD	38+80.81	24" - 11 1/4° BEND	4'	
CORTADERIA ST	37+48.48	24" - 11 1/4° BEND	4'	
CORTADERIA ST	38+00.75	24" - 11 1/4° BEND	4'	
CORTADERIA ST	38+85.34	24" - 11 1/4° BEND	4'	
CORTADERIA ST	40+44.24	24" - 11 1/4° BEND	4'	
CORTADERIA ST	41+12.85	11 1/4° BEND	4'	
CORTADERIA ST	41+85.91	11 1/4° BEND	4'	RESTRAINED JOINTS ONLY AT FITTINGS

NOTE: RESTRAINED JOINTS ON ALL FITTINGS. LENGTHS ARE ON EACH SIDE OF FITTING UNLESS OTHERWISE NOTED.



RECORD DRAWING
DATE: 11-27-95

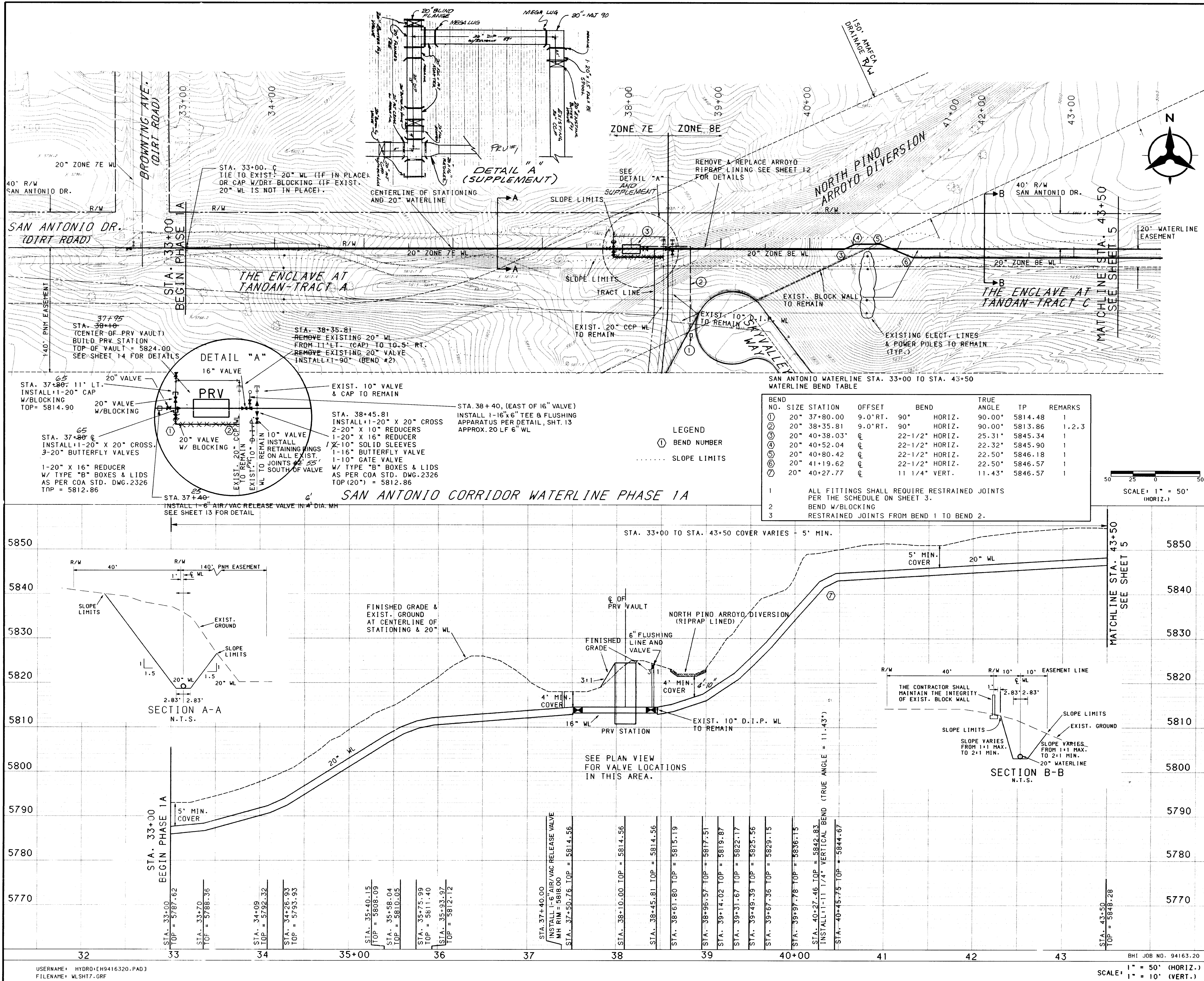
BHI JOB NO. 94163.20

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

SAN ANTONIO CORRIDOR WATERLINE PHASE I-A
KEY MAP - WATER SHUT-OFF PLAN

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	B. J. Archuleta	12/23/94	WATER		
TRANSPORTATION	M. A. RHO	10-28-94	WASTE WATER		
HYDROLOGY	CAM	12-14-94			

DRAWING NO. 5004.90
MAP NO. E21.22.23
SHEET 3 OF 17



GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.

2. ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

3. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.

4. CONTRACTORS SHALL PROVIDE THE OBSERVER WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.

5. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARDS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION, AS AMENDED WITH UPDATE NO.4.

6. REMOVAL OF EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAW CUT ONLY).

7. ALL WATERLINES AND FITTINGS DESIGNATED AS BEING REMOVED BY THE PLANS SHALL BE KEPT OR DISPOSED OF BY CONTRACTOR.

8. NORTH PINO ARROYO MAY NOT BE OPENED UP BETWEEN MAY 15TH AND OCTOBER 15TH.

ELECTRICAL NOTES:

- METER PEDESTAL PER ELECTRICAL PLANS. ELECTRICAL CONTRACTOR SHALL EXCAVATE UNDER WALL AND EXTEND UNDERGROUND SERVICE PER KEYED NOTE #2 TO PRV STATION. COORDINATE LOCATION OF PEDESTAL AND REQUIREMENTS WITH PNM. CABLEING BETWEEN PEDESTAL AND EXISTING PAD MOUNT TRANSFORMER WILL BE FURNISHED AND INSTALLED BY PNM.
- 2" CONDUIT WITH 3 #2THWN AND 1 #6 GROUND, MINIMUM BURY 24" BELOW GRADE.
- CONNECT SERVICE ENTRANCE CONDUCTORS TO PANEL. SEE ELECTRICAL PLANS FOR EXACT LOCATION.

RECORD DRAWING

DATE: 11-27-95

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

SAN ANTONIO CORRIDOR WATERLINE PHASE 1A
WATERLINE PLAN & PROFILE
STA. 33+00 TO STA. 43+50

APPROVALS

ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DR. CHAIRMAN	12-22-94	WATER		
TRANSPORTATION	10-23-94	WASTE WATER		
HYDROLOGY	12-14-94	AMAFCA		

DESIGNED BY: CHH
DRAWN BY: TONY M. CHH
CHECKED BY: HOS

DATE: 10/94
DATE: 10/94
DATE: 10/94

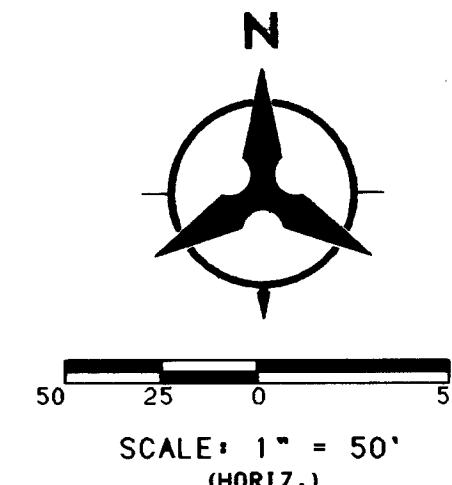
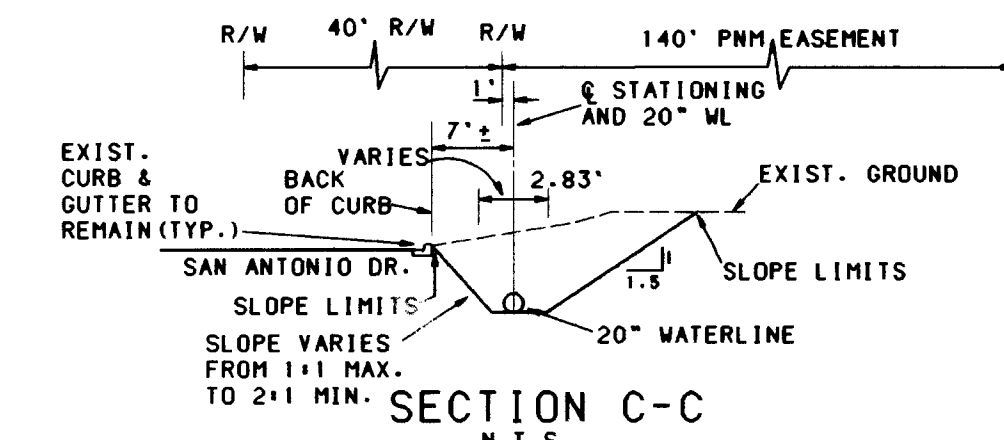
REVISIONS

NO.	DATE	REMARKS
1		DESIGN

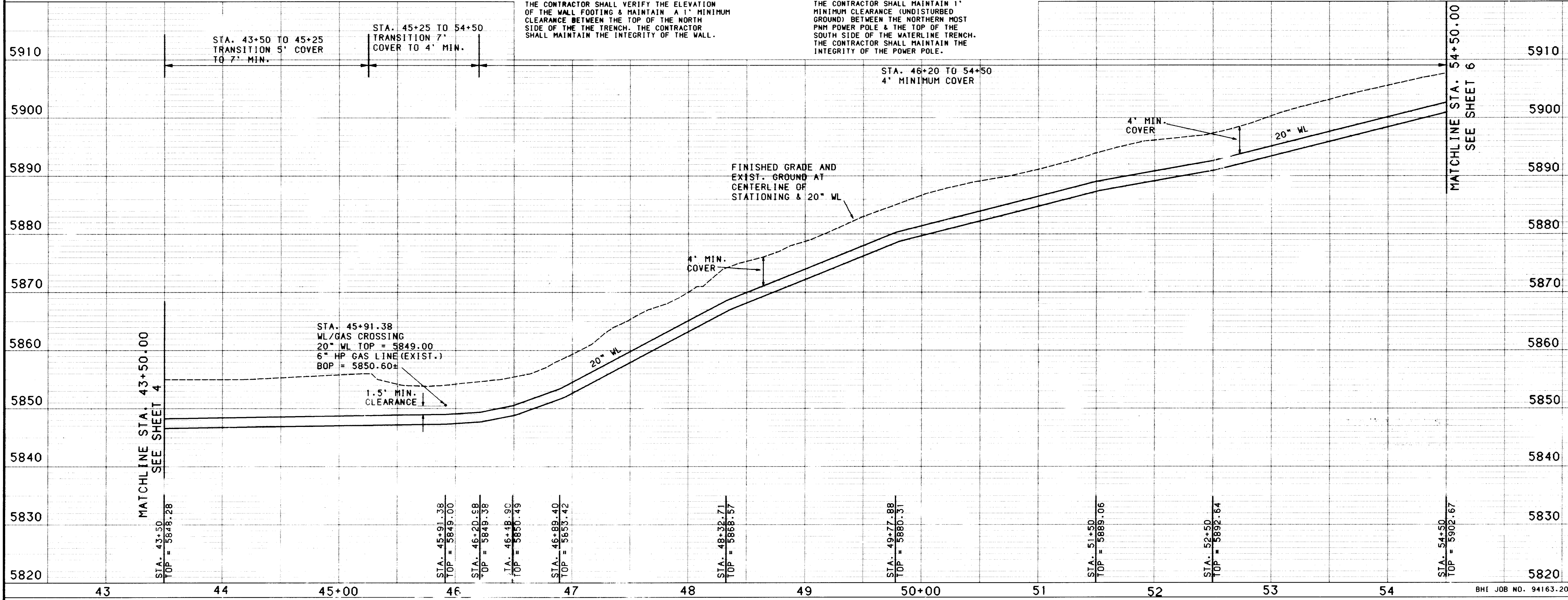
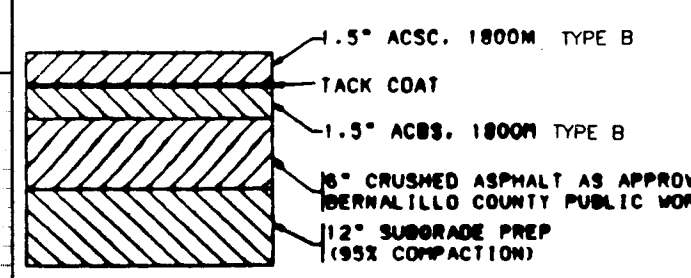
CONTRACTOR: MCC, Inc.
WORKED BY: M.M. Surveying
ACCEPTED BY: BHI
DATE: 12/15/94
FIELD LOCATION BY: BHI
DATE: 12/15/94
DRAWINGS CORRECTED BY: BHI
MICRO-FILM INFORMATION
RECORDED BY: NO.
SEA LEVEL - DATUM OF 1929
ELEVATION = 6559.63'

SCANNED BY
BY LASON

BEND NO.	SIZE	STATION	OFFSET	BEND	TRUE ANGLE	TP	REMARKS
①	20"	45+76.48	℄	22-1/2"	22.50°	5848.96	1
②	20"	46+00.00	℄	22-1/2"	22.50°	5849.11	1
1	ALL FITTINGS SHALL REQUIRE RESTRAINED JOINTS PER THE SCHEDULE ON SHEET 3.						



- LEGEND
- ① BEND NUMBER
-  REMOVE & REPLACE
EXIST. PAVEMENT
& REPLACEMENT
- SLOPE LIMITS



TYPICAL PAVEMENT SECTION
NO SCALE

26-5004.90 059



RECORD DRAWING

DATE: 11-27-95



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

SAN ANTONIO CORRIDOR WATERLINE PHASE 1A
WATERLINE PLAN & PROFILE
STA. 43+50.00 TO STA. 54+50.00

STATION: 44-30-00 TO STA: 54-30-00			
APPROVALS	ENGINEER	DATE	APPROVALS
DRC CHAIRMAN	<i>B. G. Sweeney</i>	12-23-94	WATER
TRANSPORTATION	<i>NA RHO</i>	10-28-94	WASTE WATER
HYDROLOGY	<i>C. M. Sweeney</i>	12-11-94	

DRAWING NO. 5004.90		MAP NO. E-21.22.23	SHEET 5 OF 17
----------------------------	--	---------------------------	-----------------------------

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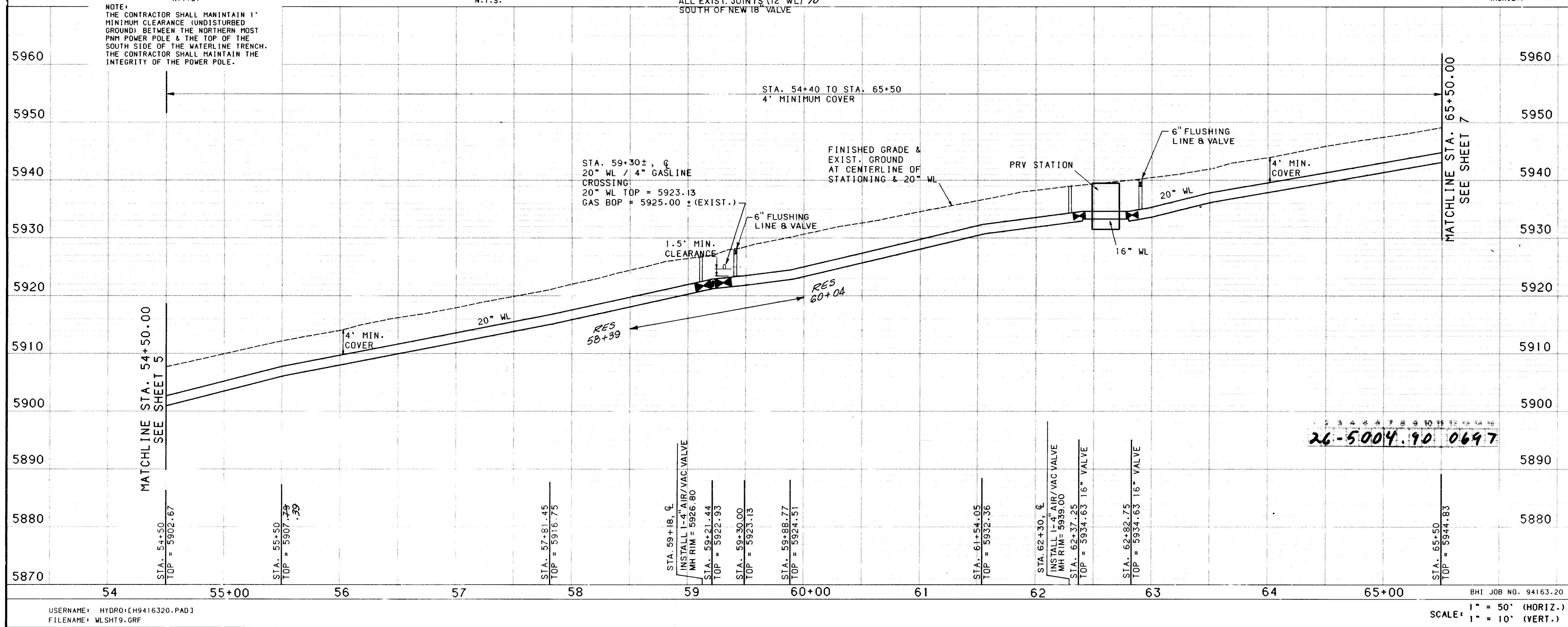
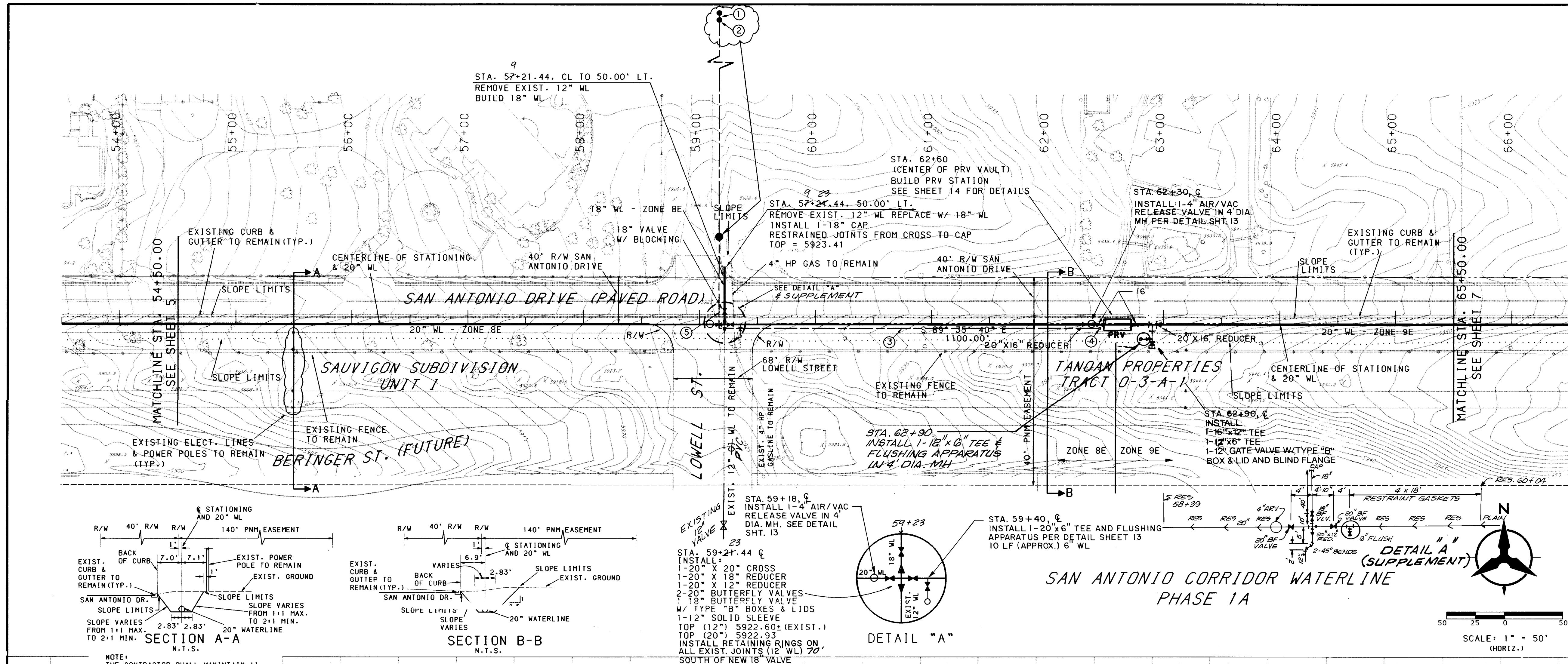
      USERNAME:  HYDRO:CH9416320.PAD
      FILENAME:  WLSHT8.GRF

```

SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

DRAWING NO. 5004.90	MAP NO. E-21.22.23	SHEET 5	OF 17
-------------------------------	------------------------------	-------------------	-----------------

SCANNED BY
BY LASON



- GENERAL NOTES
1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 2. ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 3. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
 4. CONTRACTORS SHALL PROVIDE THE OBSERVER WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
 5. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARDS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION, AS AMENDED WITH UPDATE NO.4.
 6. REMOVAL OF EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
 7. ALL WATERLINES AND FITTINGS DESIGNATED AS BEING REMOVED BY THE PLANS SHALL BE KEPT OR DISPOSED OF BY CONTRACTOR.

LEGEND

- ① WATERLINE CURVE DATA
- ② BEND NUMBER
- SLOPE LIMITS

ELECTRICAL NOTES:

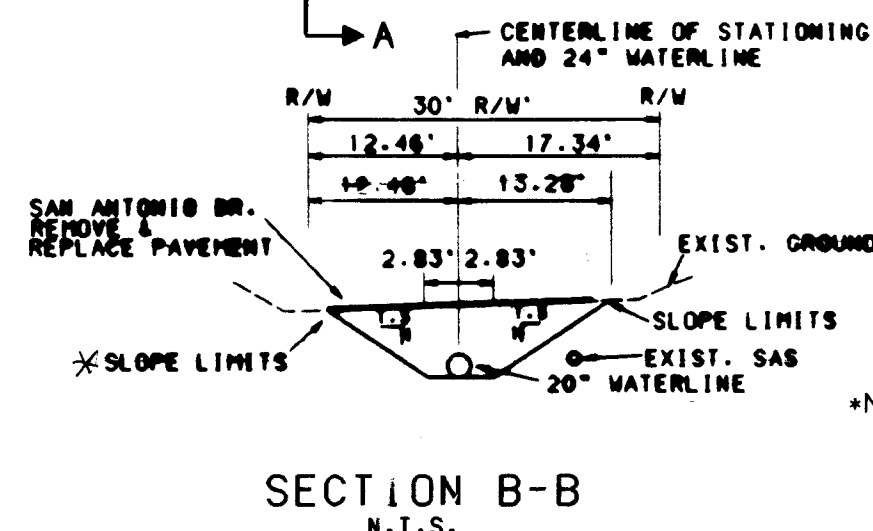
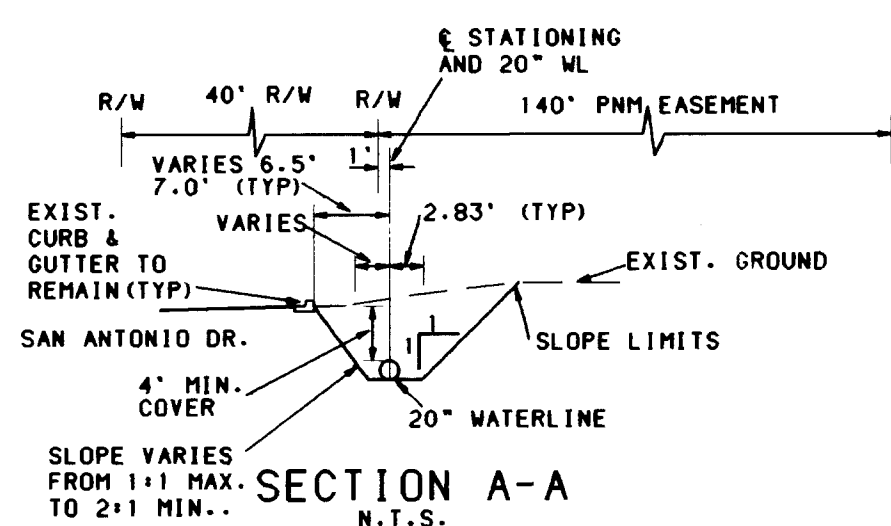
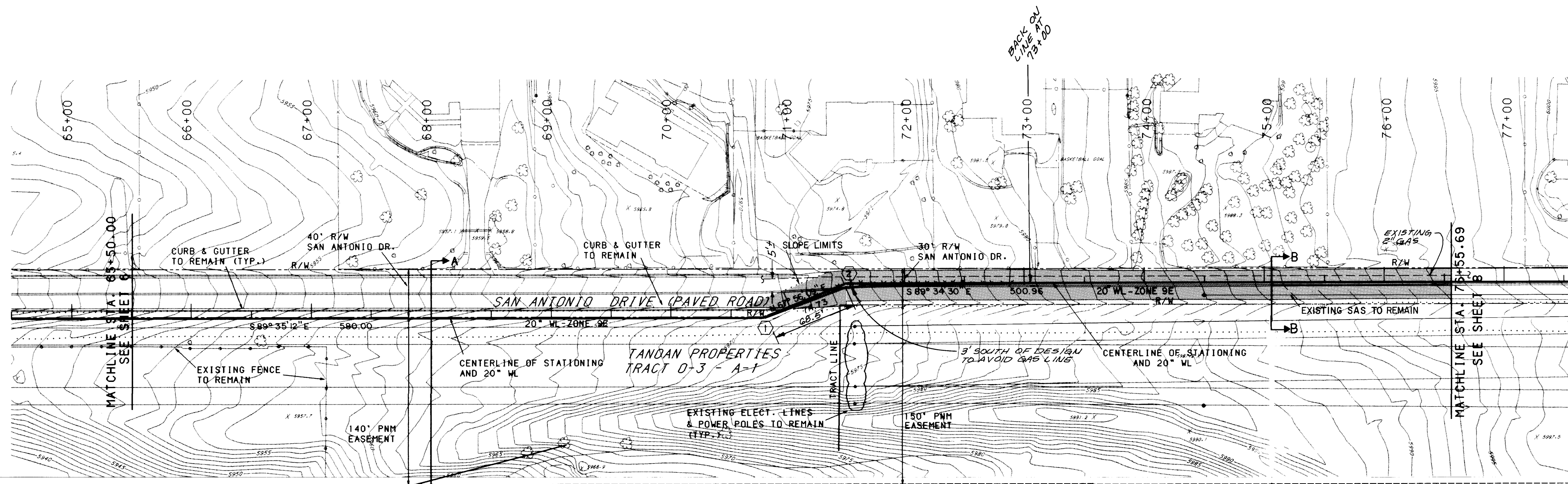
- ① EXISTING POWER POLES. VERIFY EXACT LOCATION IN THE FIELD.
- ② EXTEND 2\"/>



RECORD DRAWING
DATE: 11-27-95

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING			
SAN ANTONIO CORRIDOR WATERLINE PHASE 1A WATERLINE PLAN & PROFILE STA. 54+50.00 TO 65+50.00			
APPROVALS	ENGINEER	DATE	APPROVALS
DR. CHAIRMAN	B.G. Boudary	12-23-94	WATER
TRANSPORTATION	PAH RHD	10-28-94	WASTE WATER
HYDROLOGY	ctm	12-2-94	
DESIGNED BY CMH		DATE 10/94	DATE 10/94
DRAWN BY TONY M. CMH		DATE 10/94	DATE 10/94
CHECKED BY HRS		DATE 10/94	DATE 10/94

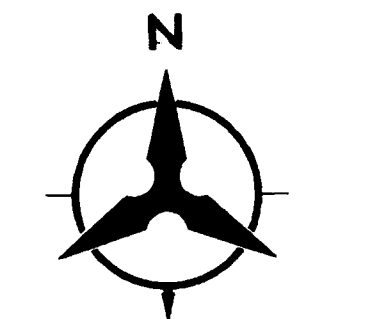
SCANNED BY
BY LASON



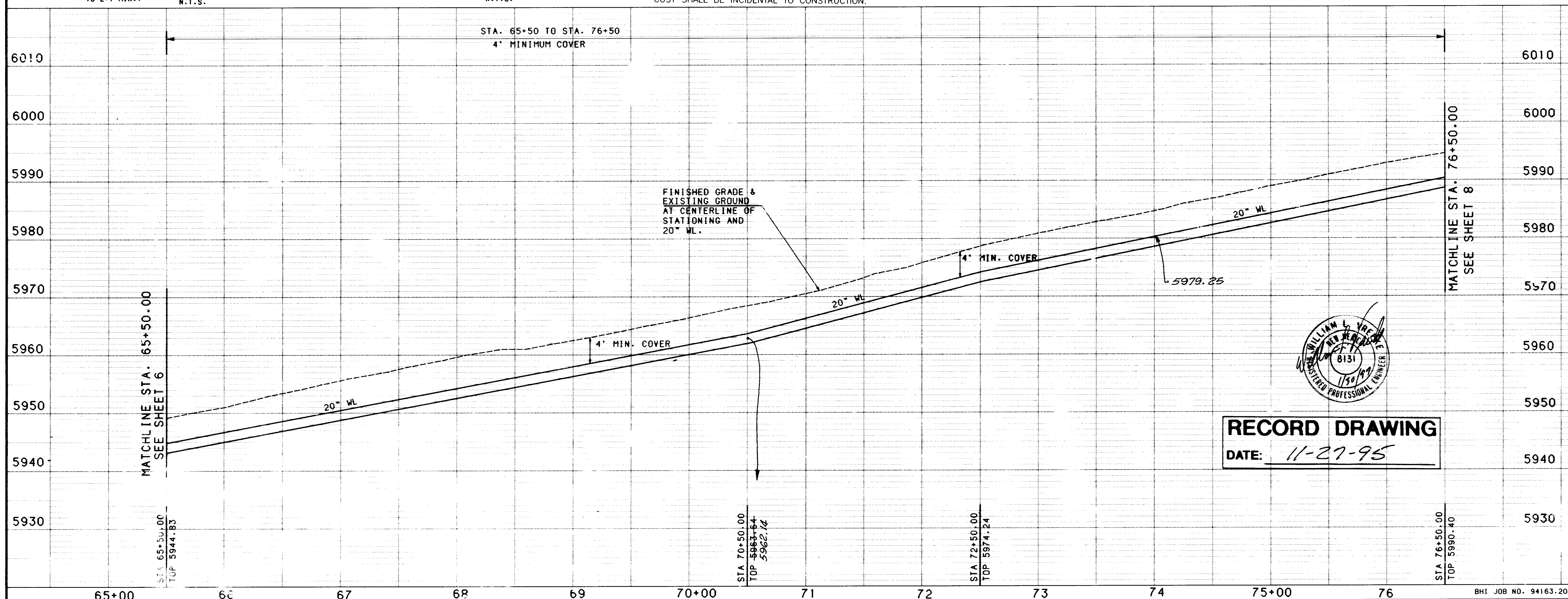
SAN ANTONIO CORRIDOR WATERLINE PHASE 1A

SAN ANTONIO WATERLINE STA. 65+50 TO 76+50

WATERLINE BEND TABLE						
BEND NO.	SIZE	STATION	OFFSET	BEND	TRUE ANGLE	TP
1	20"	70+80	0	22-1/2°	22.5°	65.10
2	20"	71+54.73	0	22-1/2°	22.5°	69.10
1 ALL FITTINGS SHALL REQUIRE RESTRAINED JOINTS PER THE SCHEDULE ON SHEET 3.						

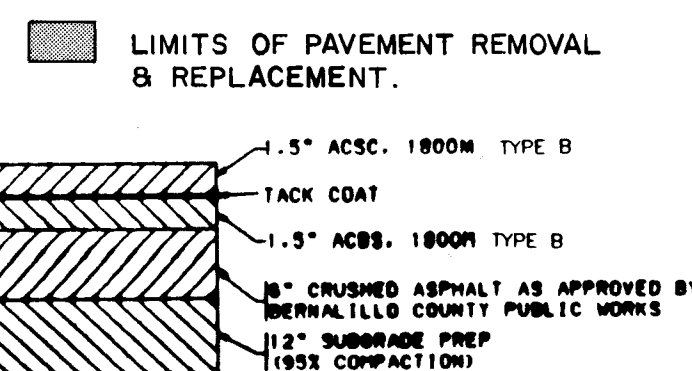


SCALE: 1" = 50'
(HORIZ.)



RECORD DRAWING
DATE: 11-27-95

LEGEND



TYPICAL PAVEMENT SECTION
NO SCALE

26-5004.90 0797

ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING

SAN ANTONIO CORRIDOR WATERLINE PHASE 1A
WATERLINE PLAN & PROFILE
STA. 65+50.00 TO STA. 76+55.69

APPROVALS	ENGINEER	DATE	APPROV.	ENGINEER	DATE
DRC CHAIRMAN	B. J. Sandoval	12-23-94	WATER	E. J. Sandoval	12-15-94
TRANSPORTATION	W. R. RHO	10-28-94	WASTE		
HYDROLOGY	C. M.	12-14-94			

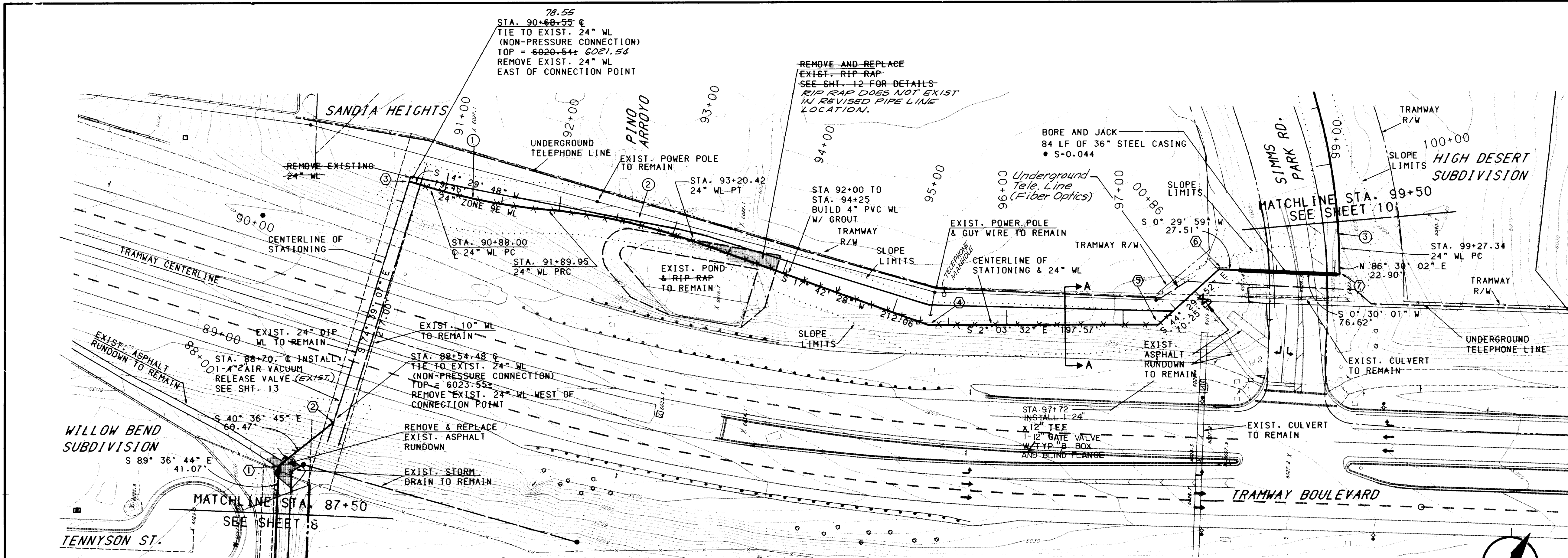
DRAWING NO. 5004.90
MAP NO. E2.22.23
SHEET 7 OF 17

DESIGNED BY CMH
DRAWN BY TONY H. CMH
CHECKED BY HKS

DATE 10/94
DATE 10/94
DATE 10/94

REVISIONS
NO. DATE REMARKS

DATE 12/15/94



WATERLINE & CENTERLINE CURVE DATA									
CURVE NO.	LINE NO.	SIZE	P.I.	DELTA	D	T	L	R	
1	24"	91+39.15	11° 27' 11"	11° 14' 04"	51.14'	101.94'	510.00'		
2	24"	92+55.54	14° 39' 29"	11° 14' 04"	65.59'	130.47'	510.00'		
3	24"	27+90.41	15° 31' 24"	11° 14' 04"	69.51'	138.18'	510.00'		

SAN ANTONIO CORRIDOR WATERLINE PHASE 1A

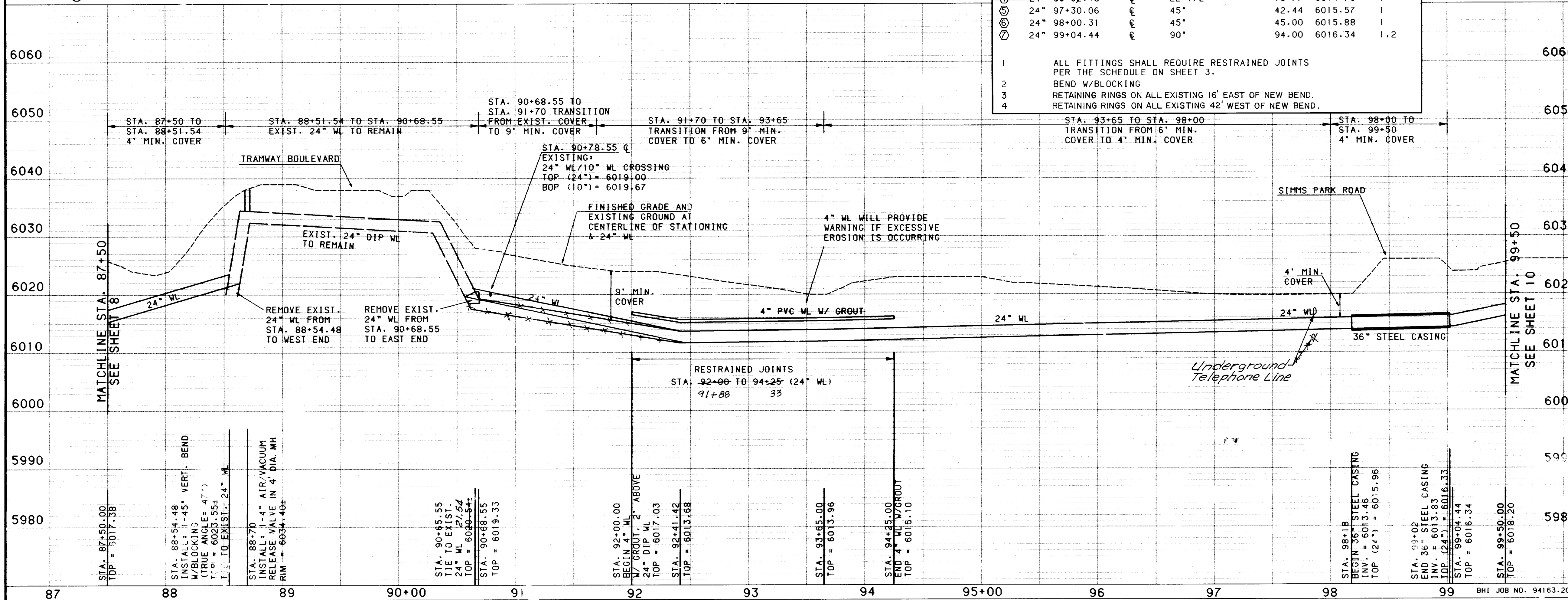
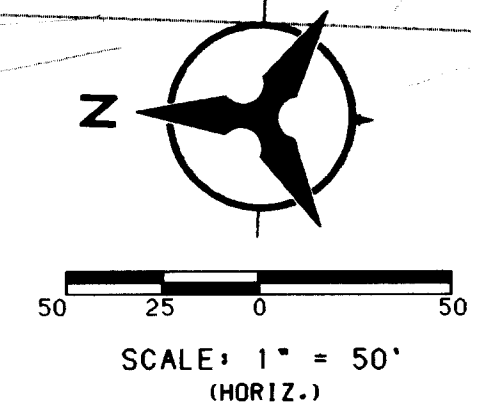
SAN ANTONIO WATERLINE STA. 87+50 TO STA. 99+50 WATERLINE BEND TABLE									
BEND NO.	SIZE	STATION	OFFSET	BEND	TRUE ANGLE	TP	REMARKS		
1	24"	87+91.07	0	45°	49.00	6017.51	1		
2	24"	88+51.54	0	22-1/2° & 11-1/4°	34.04	6017.50	1,3		
3	24"	90+68.55	0	90°	89.15	6019.33	1,2,4		
4	24"	95+37.48	0	22-1/2°	19.77	6014.70			
5	24"	97+30.06	0	45°	42.44	6015.57	1		
6	24"	98+00.31	0	45°	45.00	6015.88	1		
7	24"	99+04.44	0	90°	94.00	6016.34	1,2		

1 ALL FITTINGS SHALL REQUIRE RESTRAINED JOINTS PER THE SCHEDULE ON SHEET 3.

2 BEND W/BLOCKING

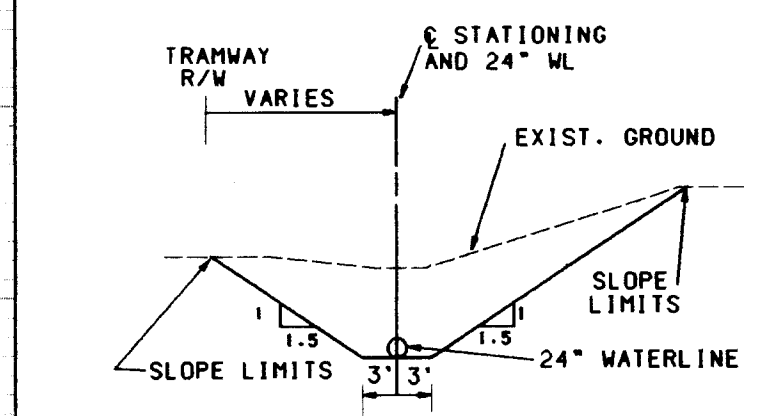
3 RETAINING RINGS ON ALL EXISTING 16" EAST OF NEW BEND.

4 RETAINING RINGS ON ALL EXISTING 42" WEST OF NEW BEND.

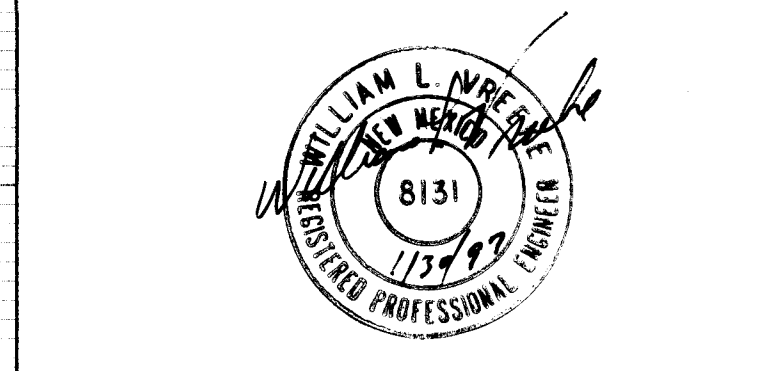


- GENERAL NOTES
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
 - ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
 - CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
 - CONTRACTORS SHALL PROVIDE THE OBSERVER WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
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 - REMOVAL OF EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
 - ALL WATERLINES AND FITTINGS DESIGNATED AS BEING REMOVED BY THE PLANS SHALL BE KEPT OR DISPOSED OF BY CONTRACTOR.

- LEGEND
- 1 WATERLINE CURVE DATA
 - 2 BEND NUMBER
 - SLOPE LIMITS

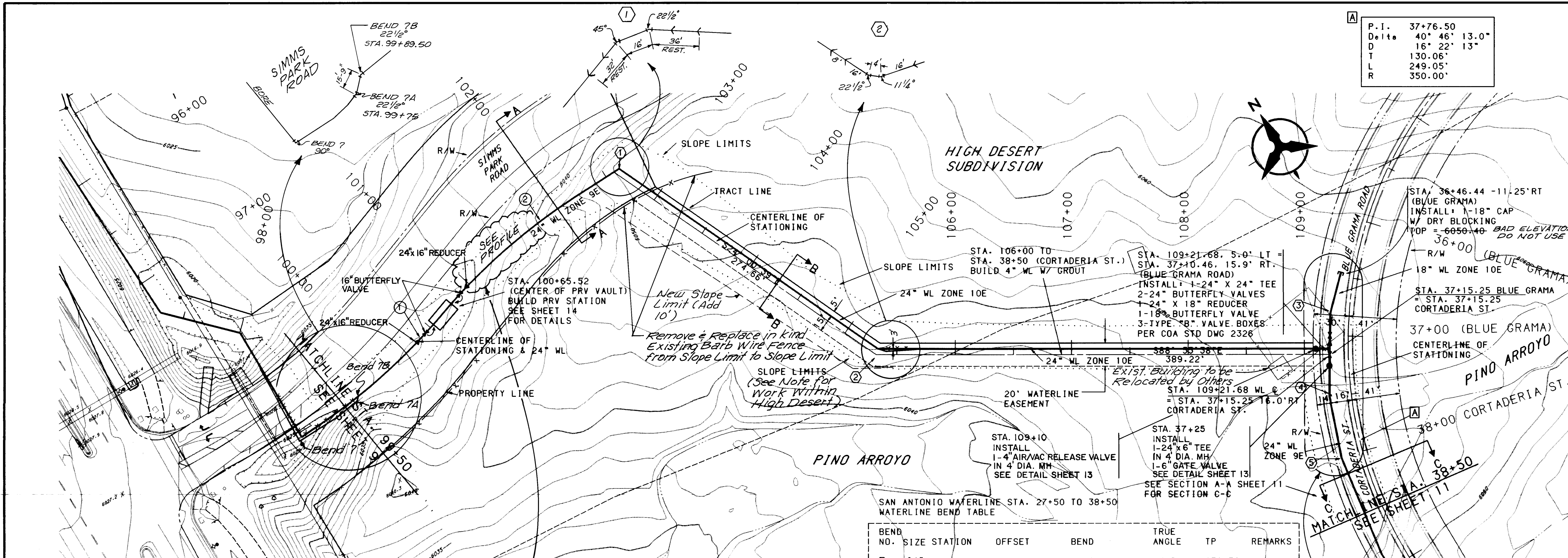


SECTION A-A
N.T.S.
26-5004.10 0997



RECORD DRAWING
DATE: 11-27-95

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING			
SAN ANTONIO CORRIDOR WATERLINE PHASE 1A WATERLINE PLAN & PROFILE STA. 87+50.00 TO STA. 99+50.00			
APPROVALS	ENGINEER	DATE	
DRG CHAIRMAN	R. J. Gaddy 12/23/94	WATER	
TRANSPORTATION	N. H. Ryo 12/28/94	WASTE WATER	
HYDROLOGY	C. M. G. 12/28/94		
COUNTY		SHEET 9 OF 17	
DRAWING NO. 5004.90		MAP NO. E21.22.23	



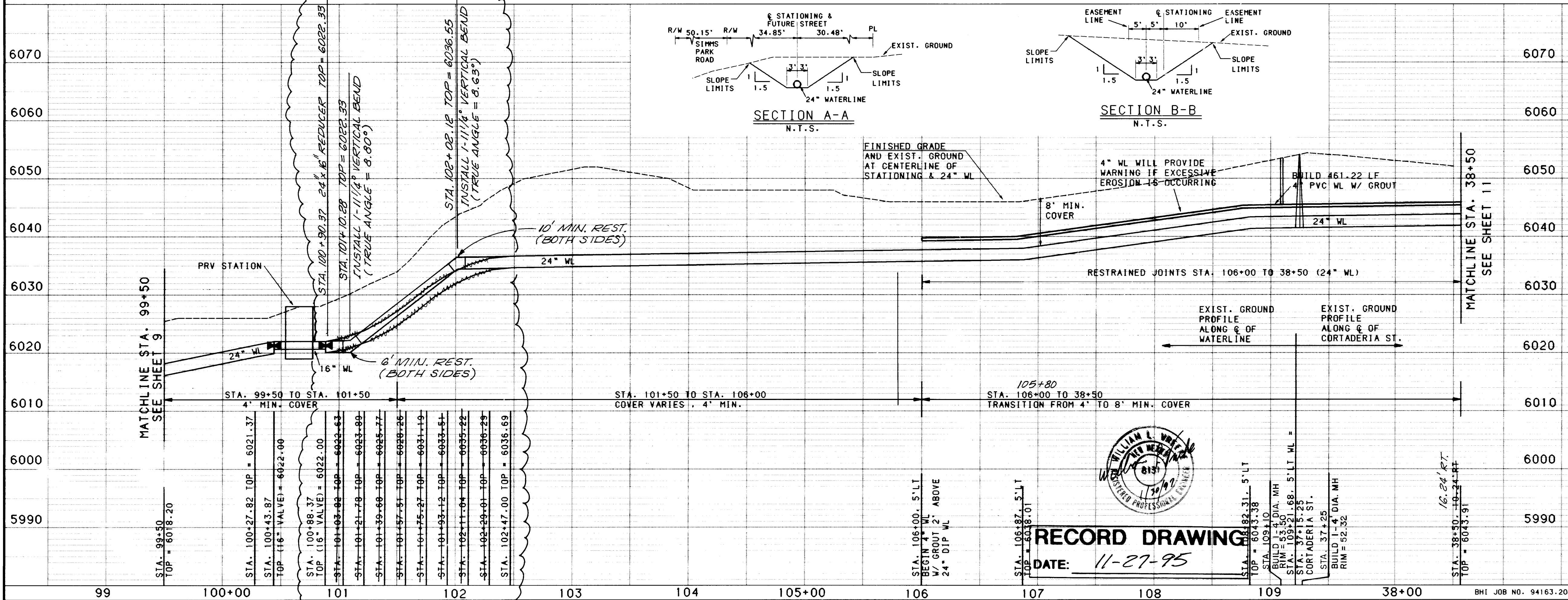
WATERLINE & CENTERLINE CURVE DATA

CURVE LINE NO.	P.I.	DELTA	D	T	L	R
1	24° 99+96.85	15° 31' 23"	11° 14' 04"	69.51'	138.18'	510.00'
2	24° 101+44.06	17° 30' 41"	11° 14' 04"	78.55'	155.87'	510.00'

SAN ANTONIO WATERLINE STA. 27+50 TO 38+50 WATERLINE BEND TABLE

BEND NO.	SIZE	STATION	OFFSET	BEND	TRUE ANGLE	TP	REMARKS
1	24"	102+59.87	5.00' LT	45° & 22-1/2°	67.50°	6036.72	
2	24"	105+34.03	5.00' LT	22-1/2° & 11-1/4°	34.92°	6037.55	
3	18"	36+80.81	16.00' RT	11-1/4°	11.32°	6049.59	1.2
4	24"	37+49.45	18.74' RT	11-1/4°	11.25°	6043.60	1.2
5	24"	38+00.75	18.83' RT	11-1/4°	11.22°	6043.76	1.2

1 ALL FITTINGS SHALL REQUIRE RESTRAINED JOINTS PER THE SCHEDULE ON SHEET 3.
2 SEE RESTRAINED JOINTS NOTE IN PROFILE



GENERAL NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
- CONTRACTORS SHALL PROVIDE THE OBSERVER WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARDS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 EDITION, AS AMENDED WITH UPDATE NO. 4.
- REMOVAL OF EXISTING CURB AND GUTTER SHALL BE AS PER COA STD. DWG. 2415 (SAWCUT ONLY).
- ALL WATERLINES AND FITTINGS DESIGNATED AS BEING REMOVED BY THE PLANS SHALL BE KEPT OR DISPOSED OF BY CONTRACTOR.

LEGEND

- CENTERLINE CURVE DATA
- WATERLINE CURVE DATA
- BEND NUMBER
- SLOPE LIMITS

WORK WITHIN HIGH DESERT

NOTE: THE CONTRACTOR SHALL INSTALL AND MAINTAIN A TEMPORARY FENCE ALONG EACH SIDE OF THE PROPOSED WATERLINE AT THE CONSTRUCTION LIMITS FOR ALL WORK AREAS WITHIN HIGH DESERT SUBDIVISION.

DETAIL "A"

26-5004.90 1047

ENGINEER'S SEAL

DESIGNED BY: CHW
DRAWN BY: TONYMCH
CHECKED BY: HGS

DATE: 10/94
DATE: 10/94
DATE: 10/94

REVISIONS

NO. DATE

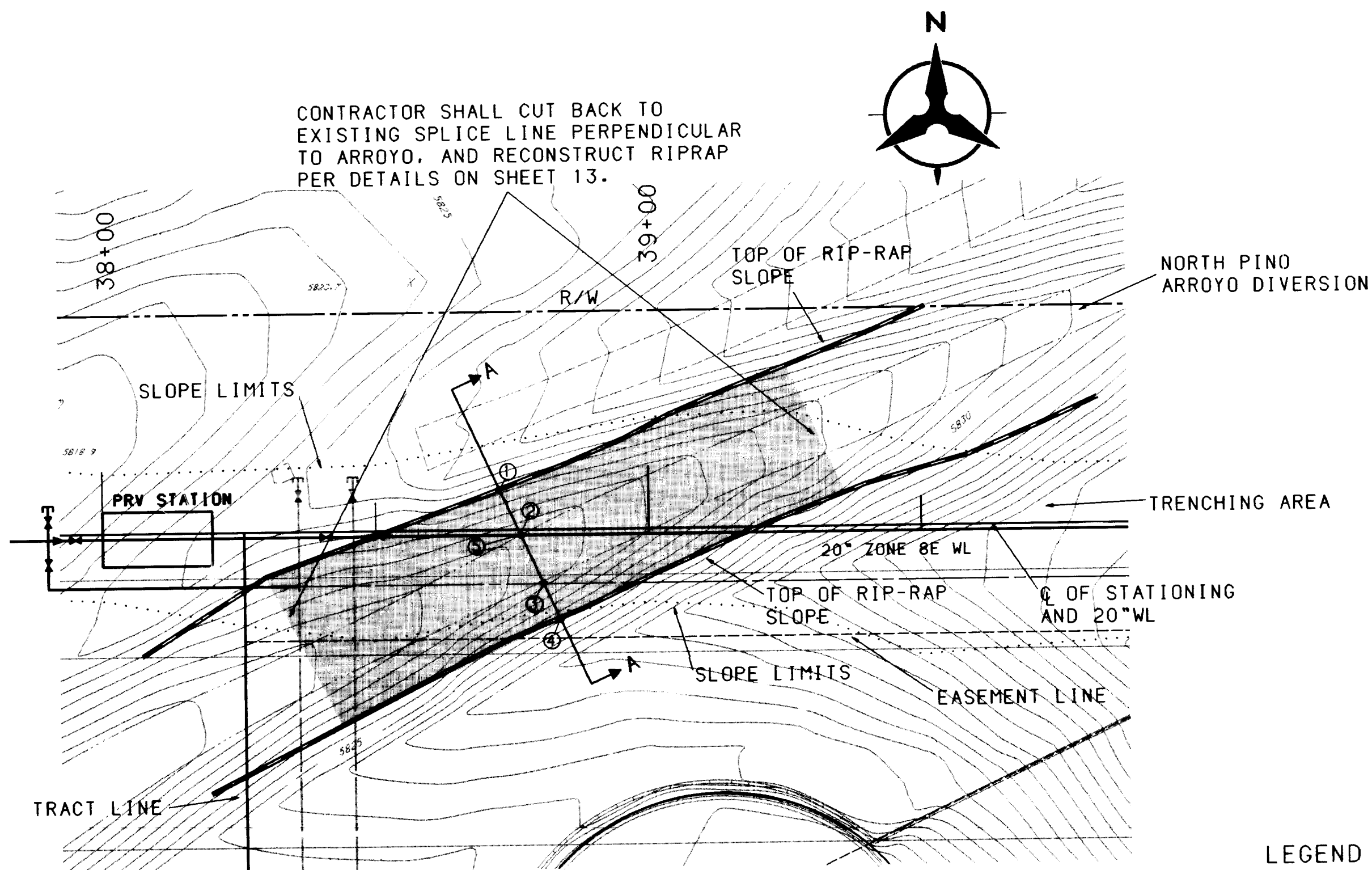
REMARKS

BY

DATE

DATE

DATE

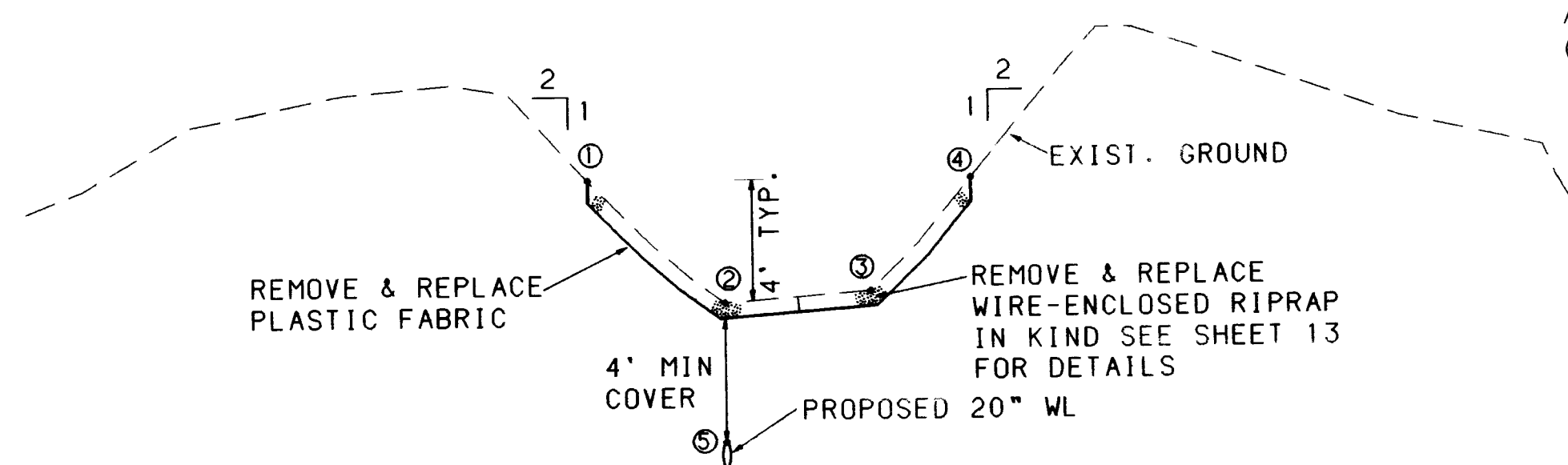


SAN ANTONIO WATERLINE NORTH PINO ARROYO DIVERSION CROSSING STA. 38+78.61, 4.28'RT.

SEE SHEET 4

CHANNEL MAY NOT BE OPENED BETWEEN
MAY 15th AND OCTOBER 15th.

N.T.S.



SECTION A-A - ARROYO MODIFICATIONS

N.T.S.

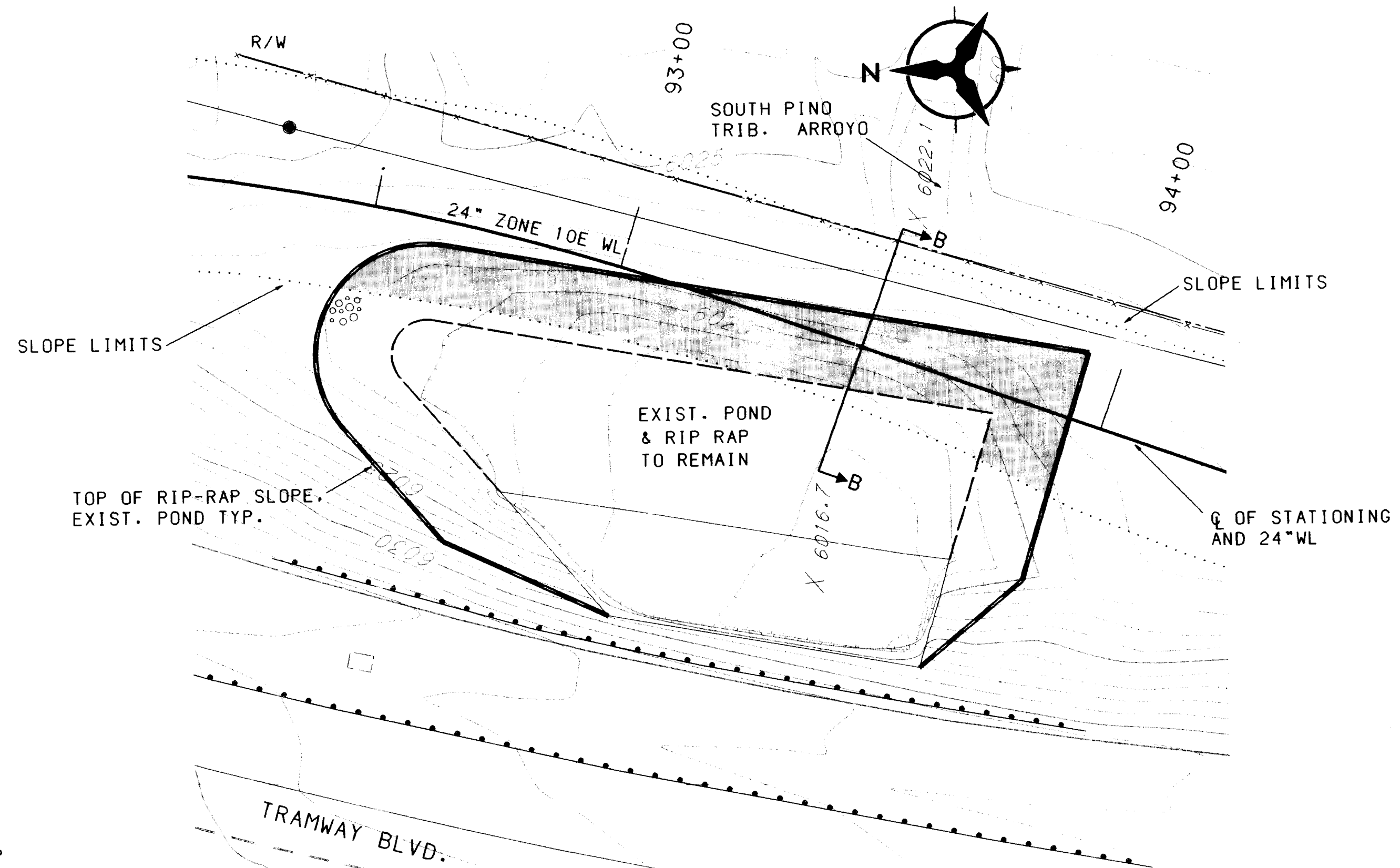
POINT #	STATION	OFFSET	ELEVATION	LOCATION
1.	STA. 38+69.31	16.1'LT.	5825.50	TOP OF RIPRAP
2.	STA. 38+76.66	0	5821.18	TOP OF RIPRAP
3.	STA. 38+80.56	8.5'RT.	5821.60	TOP OF RIPRAP
4.	STA. 38+86.71	22.0'RT.	5825.80	TOP OF RIPRAP
5.	STA. 38+76.66	0	5816.18	TOP OF 20" WL

NOTE: FIELD VERIFY CHANNEL CROSSING SECTION AND
LIMITS OF RIP-PAP REMOVAL & REPLACEMENT

LEGEND
 LIMITS OF RIP-PAP
REMOVAL & REPLACEMENT
 SLOPE LIMITS

NOTE

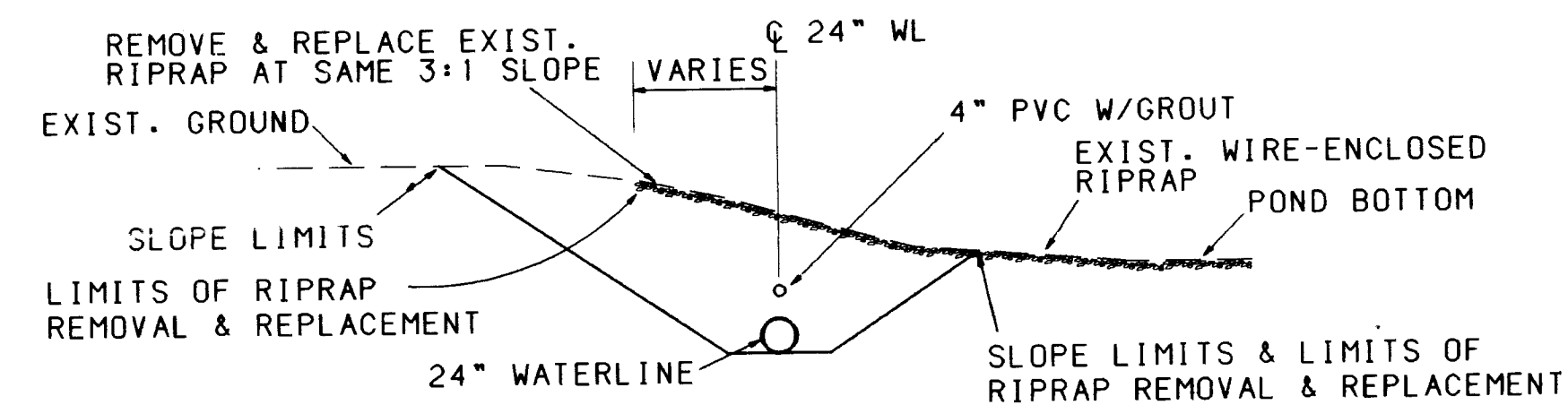
PRIOR TO CUTTING WIRE TIED
RIPRAP-CONTACT JOHN KELLY
AT AMAFCA 884-2215 TO
CONFIRM REMOVAL LIMITS.



SAN ANTONIO WATERLINE SOUTH PINO TRIB. CROSSING

SEE SHEET 9

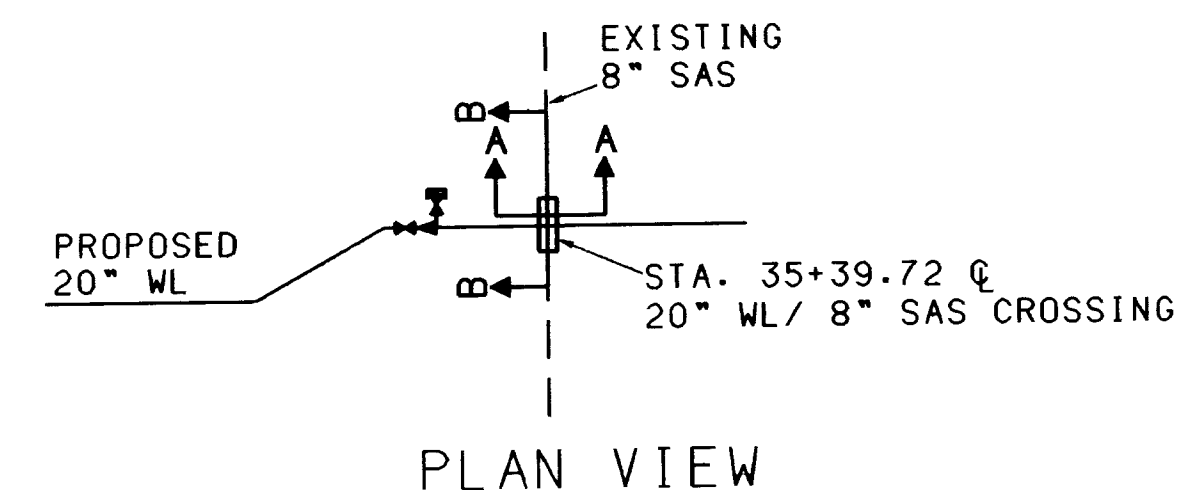
N.T.S.



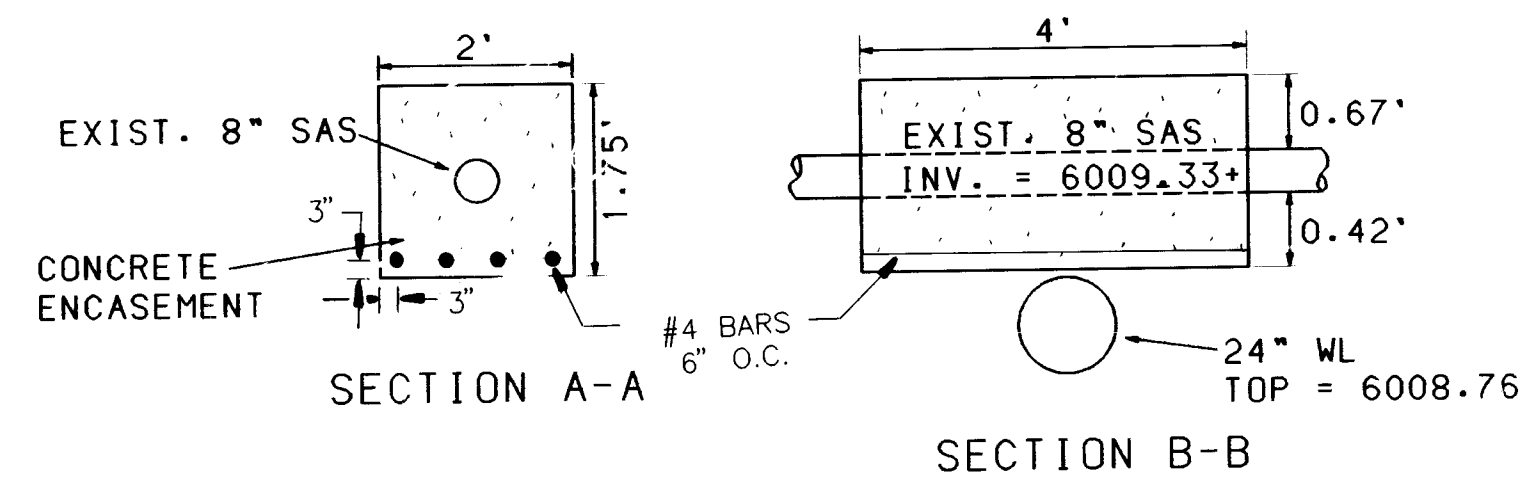
SECTION B-B - POND MODIFICATIONS

NOTE: FIELD VERIFY POND CONFIGURATION AND
LIMITS OF RIPRAP REMOVAL & REPLACEMENT

N.T.S.



PLAN VIEW

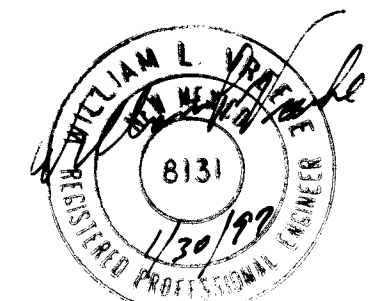


SAS CONCRETE ENCASEMENT DETAIL

SEE SHEET 8

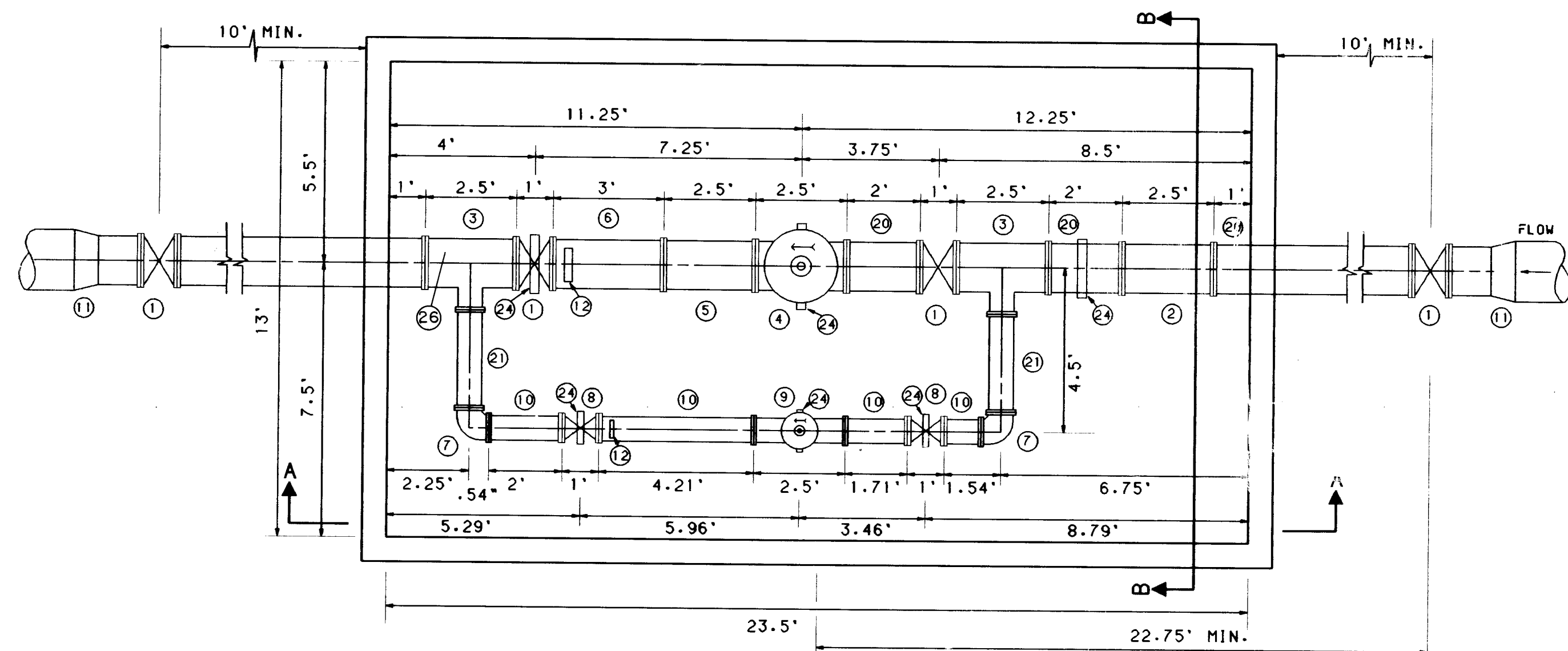
N.T.S.

26-5004.90 1297



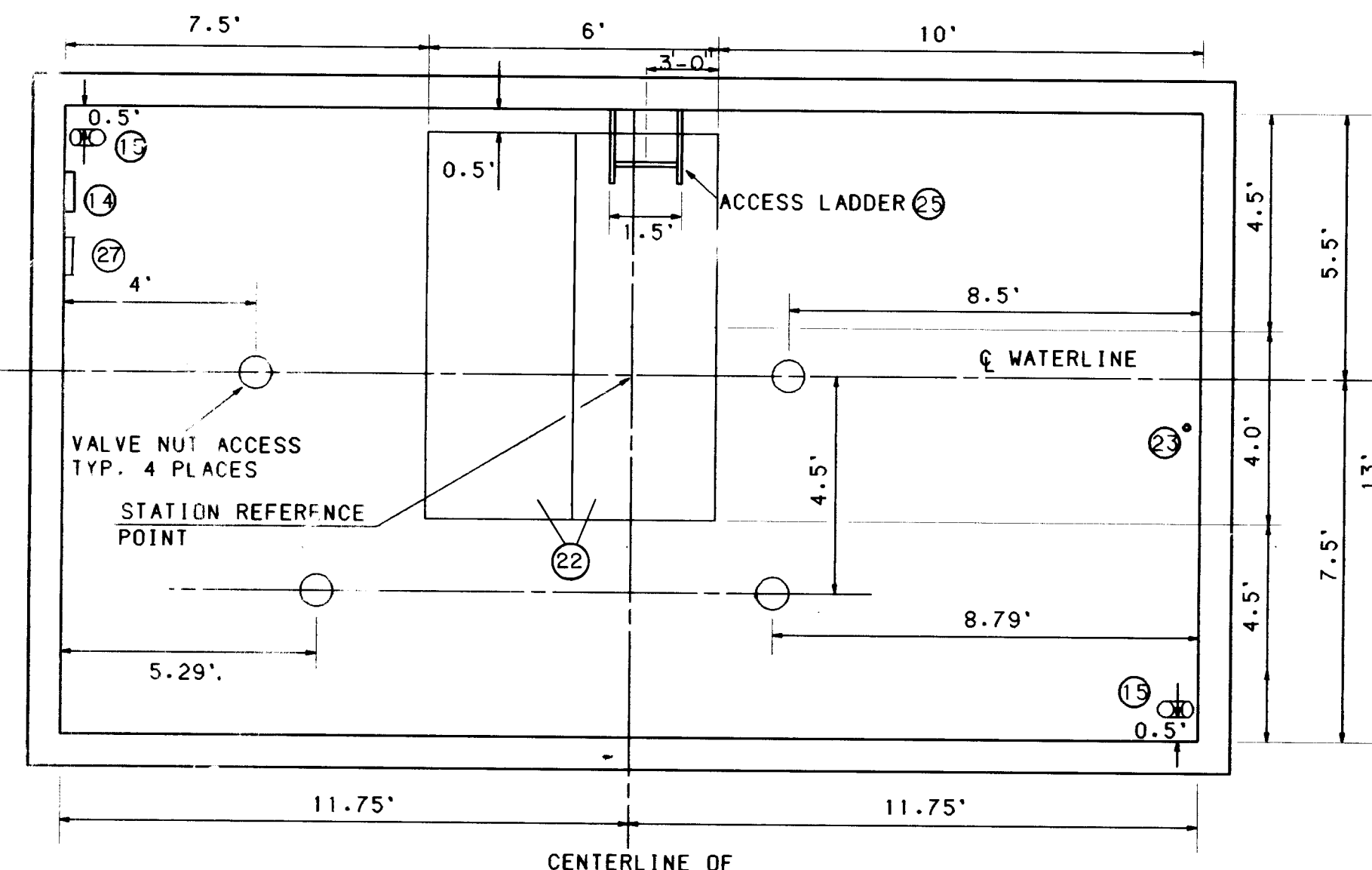
RECORD DRAWING
DATE: 11-27-95

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT DESIGN GROUP			
SAN ANTONIO CORRIDOR WATERLINE PHASE 1A MISCELLANEOUS DETAILS			
APPROVALS	ENGINEER	DATE	DATE
DESIGNED BY	CMH	10/94	10/94
DRAWN BY	TONY M.	10/94	10/94
CHECKED BY	HCS	10/94	10/94
NO. DATE	REVISIONS	DESIGN	
1	11/27/95		
2	12/23/94		
3	12/28/94		
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PRV STATION INTERIOR PLAN

N.T.S.



ROOF PLAN

N.T.S.

PRV GENERAL NOTES:

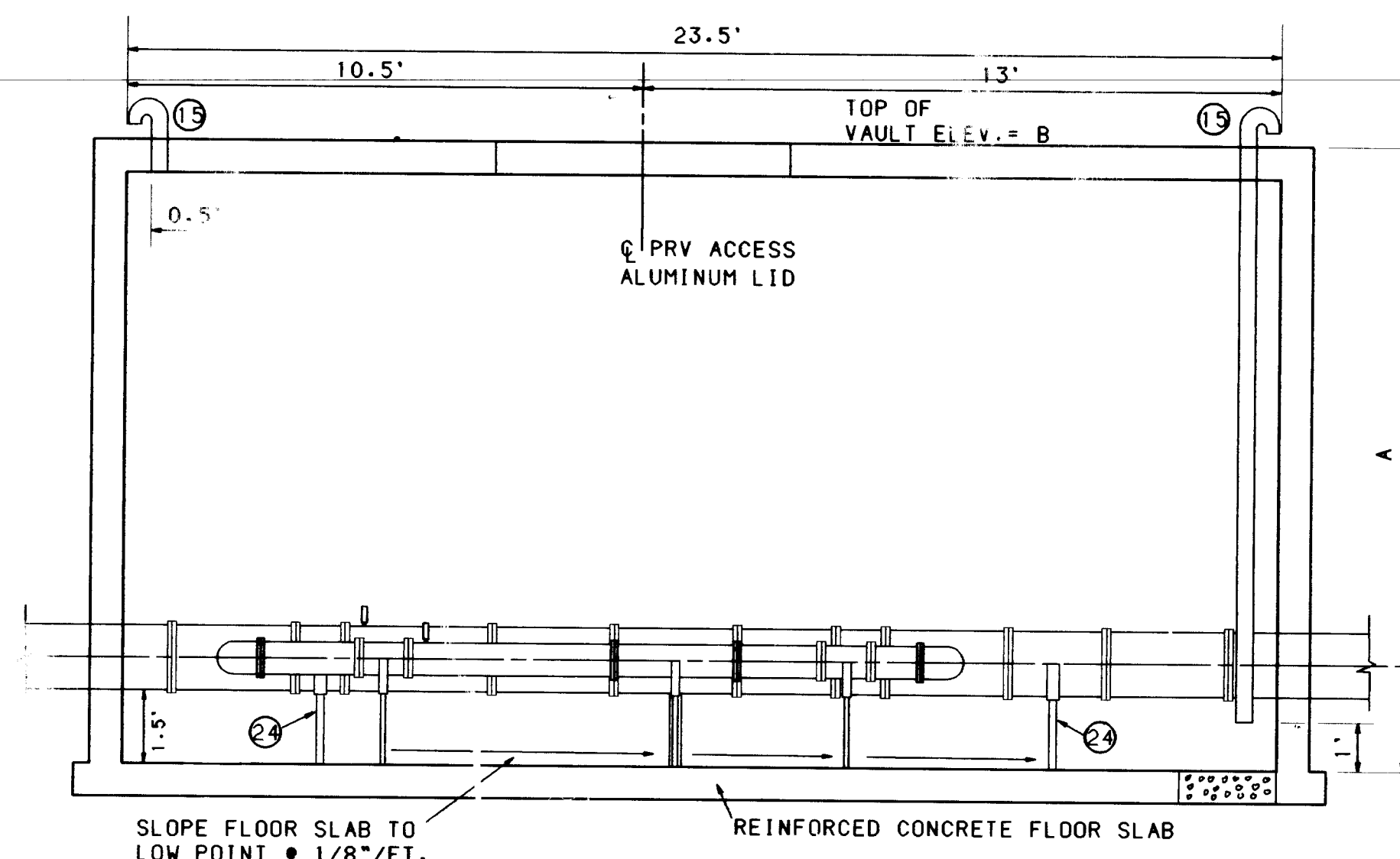
1. THE C.O.A. SHALL SUPPLY THE FOLLOWING ITEMS FOR CONTRACTOR INSTALLATION:
RADIO TELEMETRY UNIT (RTU)
FLOW METER, ANTENNA AND COAXIAL CABLE.
2. CONCRETE SLAB IS DESIGN FOR H-20 WHEEL LOAD FOR INFREQUENT LOADING.
3. ALL PRV VAULT CONSTRUCTION SHALL BE SEALED AND WEATHER PROOF.
4. SEE SHEET 9 FOR PRESSURE TRANSDUCING DETAIL.

PRV STATION #3

1. NO POWER IS REQUIRED AT THIS STATION.
2. THIS STATION SHALL BE EQUIPPED WITH AIR VENTS ONLY. NO HEATER OR FAN.
3. ITEMS 13, 14, 16-19 ARE NOT REQUIRED FOR THIS STATION.
4. FLOW METER FOR PRV STATION #3 SHALL BE FLANGED TUB, PROPELLER TYPE LIQUID FLOWMETER. FLOWMETER SHALL INCLUDE INTERGRALLY MOUNTED SIX (OR MORE) DIGIT TOTALING REGISTERS READING IN GALLONS. METER ACCURACY SHALL BE PLUS MINUS 2 PERCENT OF FLOW, MINIMUM, OVER A 10:1 FLOW RANGE. MINIMUM. SPARKING MODEL PDS-102 OR APPROVED EQUAL.

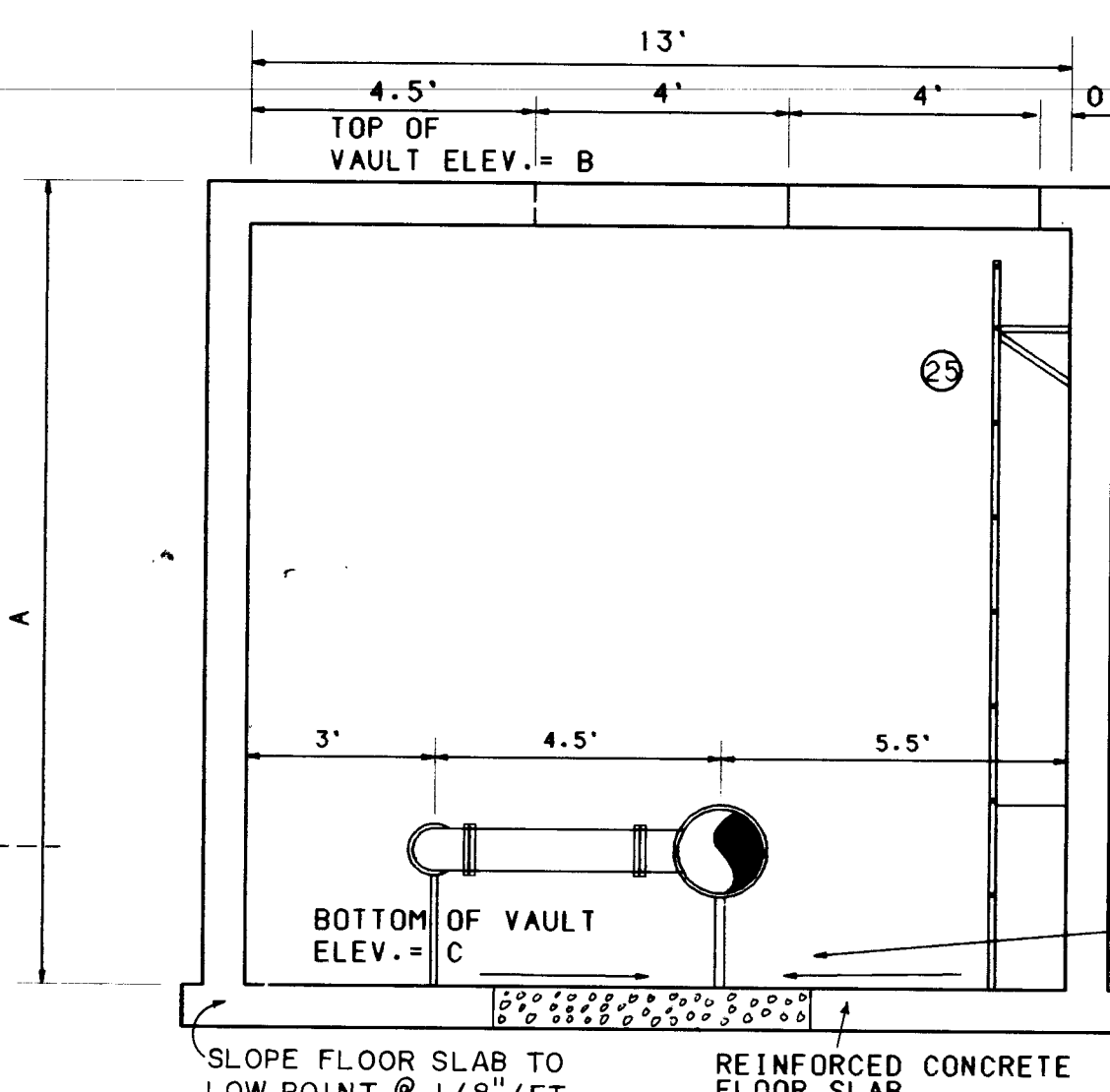
NOTE:
PREFABRICATED PRV VAULT WAS USED.

- 1 16" BUTTERFLY VALVE
- 2 16" KROHNE OR APPROVED EQUAL MAG METER (COA TO SUPPLY).
- 3 16" X 6" TEE
- 4 16" PRESSURE REDUCING VALVE GLOBE PATTERN FLANGED
END PRESSURE CLASS 125, 15 TO 75 PSI ADJUSTMENT
RANGE, STAINLESS STEEL TRIM - CLA VAL MODEL
90-48 OR APPROVED EQUAL.
- 5 16" FLEXIBLE COUPLING WITH THRUST TIES
- 6 16" SPOOL OR SOLID SLEEVE
- 7 6" X 90° BEND
- 8 6" GATE VALVE
- 9 6" PRESSURE REDUCING VALVE GLOBE PATTERN FLANGED
END PRESSURE CLASS 125, 15 TO 75 PSI ADJUSTMENT
RANGE, STAINLESS STEEL TRIM - CAL VAL MODEL
90-01 OR APPROVED EQUAL.
- 10 6" FLEXIBLE COUPLING WITH THRUST TIES
- 11 20" X 16" REDUCER OR 24" X 16" REDUCER
- 12 PRESSURE TAP AND GAGE
- 13 DELETED
- 14 IN LINE EXHAUST FAN (w/SWITCH AND ACCESS LID CONTROL)
- 15 6" DIA. STEEL GOOSENECK VENT W/ 1/4" EXP. METAL GRID
WELDED INSIDE OF PIPE
- 16 RADIO TELEMETRY UNIT (RTU) (WALL MOUNTED)
- 17 RADIO (WALL MOUNTED)
- 18 FUSE BOX AND POWER SUPPLY (WALL MOUNTED)
- 19 2' X 4' (4) INCANDESCENT LIGHT SEALED WEATHER
PROOF WITH GLOBE GUARDS
- 20 16" WATERLINE
- 21 6" WATERLINE
- 22 BILCO MODEL JD-AL 6" X 8" (DOUBLE LEAF)
ALUMINUM DOOR OR APPROVED EQUAL, W/ RECESSED HASP COVERED BY A HINGED LID FLUSH
WITH SURFACE, 6 LOCKS BEST PAD LOCK MODEL 21B722
- 23 LOW POINT IN FLOOR (FOR DRAINAGE OF
VAULT BY PORTABLE SUMP PUMP).
- 24 PIPE SUPPORT - STANDON MODEL S92 SADDLE SUPPORT OR APPROVED EQUAL
3- 5" PIPE STAND
3- 16" PIPE STAND
- 25 PRECISION FIXEL ALUMINUM WALL LADDER
MODEL FL OR APPROVED EQUAL W/ BILCO LADDER UP
SAFE POST OR APPROVED EQUAL
- 26 1" TAP W/ 1" BALL VALVE AND 1" TO 1/2" REDUCER
- 27 PRESSURE TRANSDUCER HONWELL MODEL STG 644-E1G-0000-DM



SECTION A-A

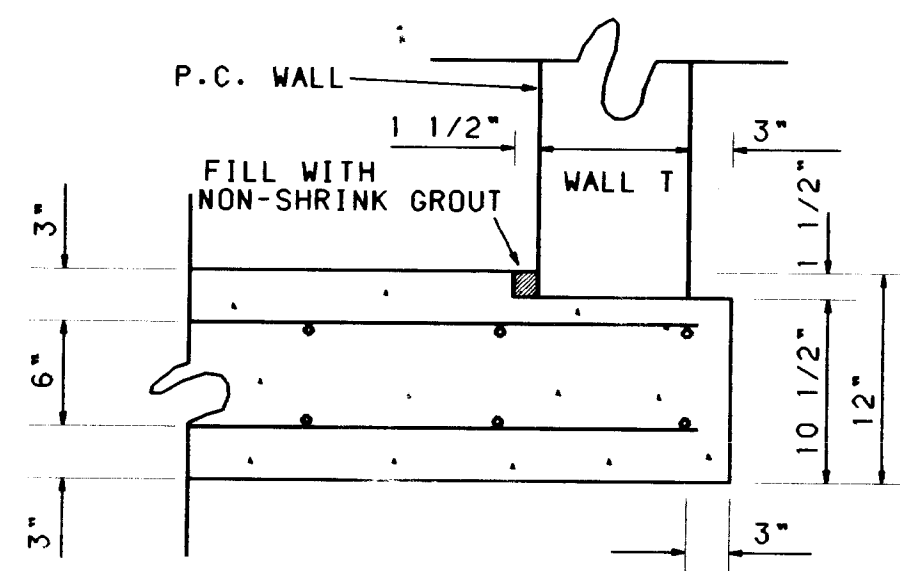
N.T.S.



SECTION B-B

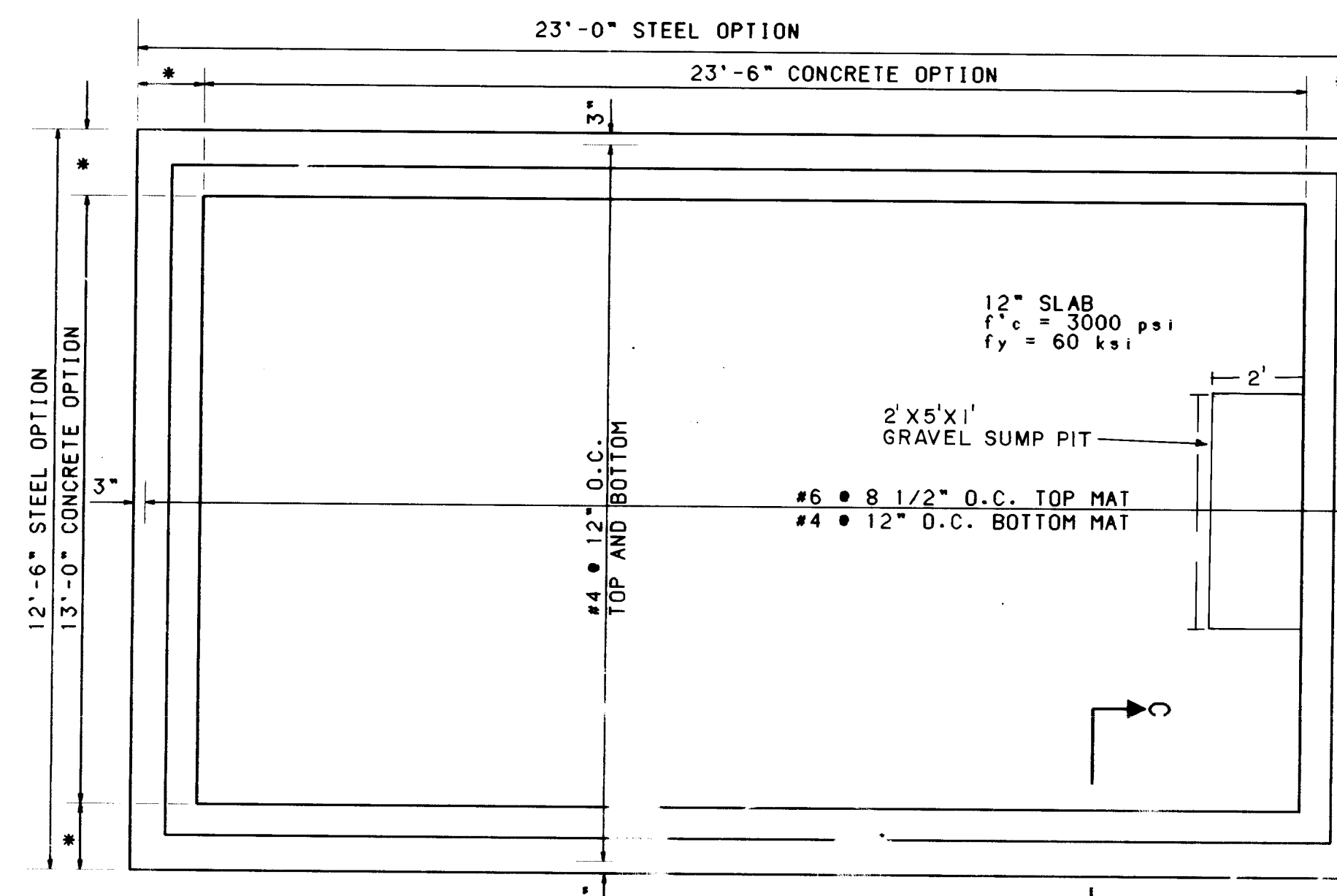
N.T.S.

PRV NO	ENTER OF PRV VAULT	DIMENSION		
		A	B	C
1.	STA. 38+10	12.75'	5824.0	5810.75
2.	STA. 62+60	7.5'	5939.5	5931.50
3.	STA. 100+65.62	8.5'	6028.0	6019.00



SECTION C-C

N.T.S. NOTE:
Omit KEY WAY AND GROUT IF
STEEL VAULT OPTION IS USED.

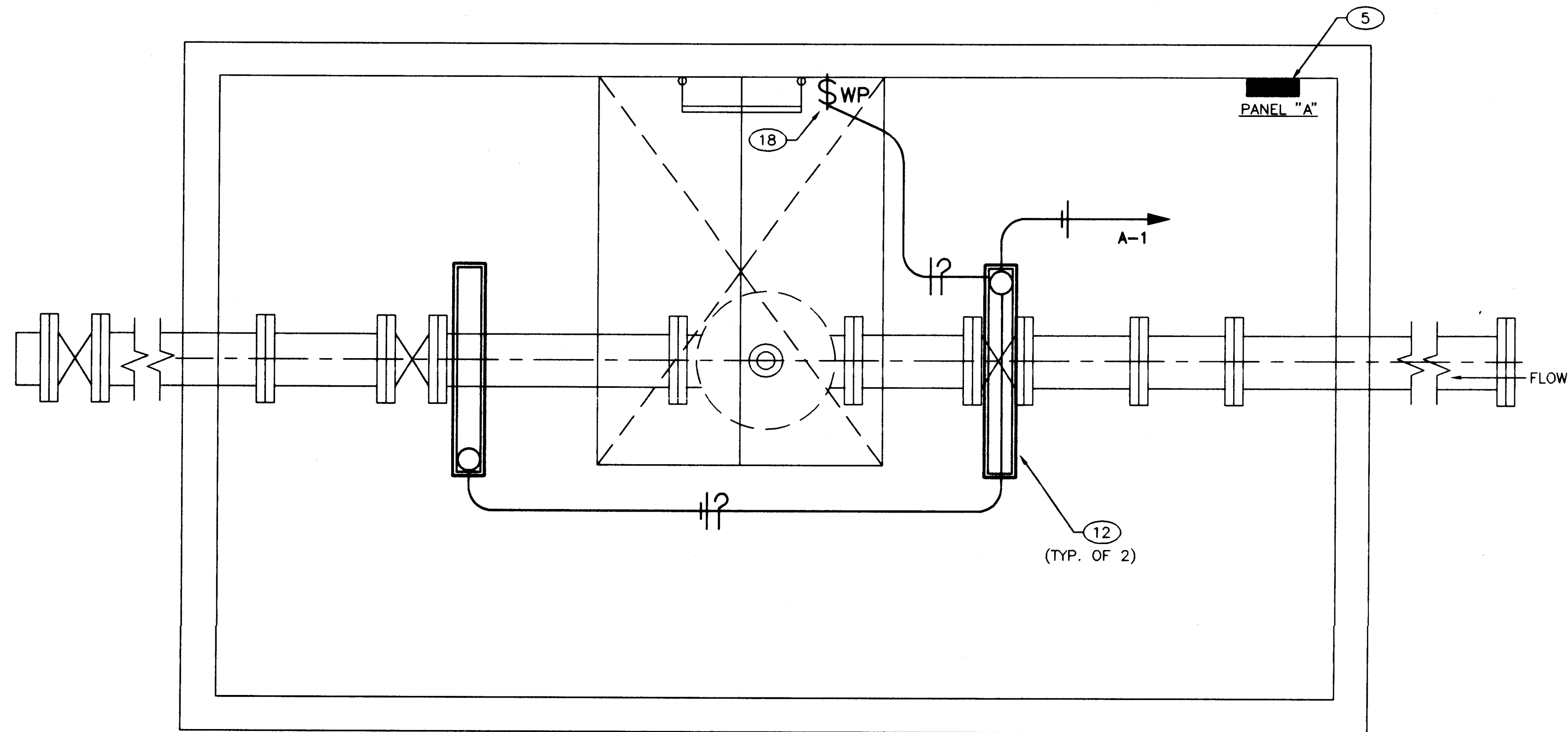


REINFORCED CONCRETE SLAB

N.T.S.

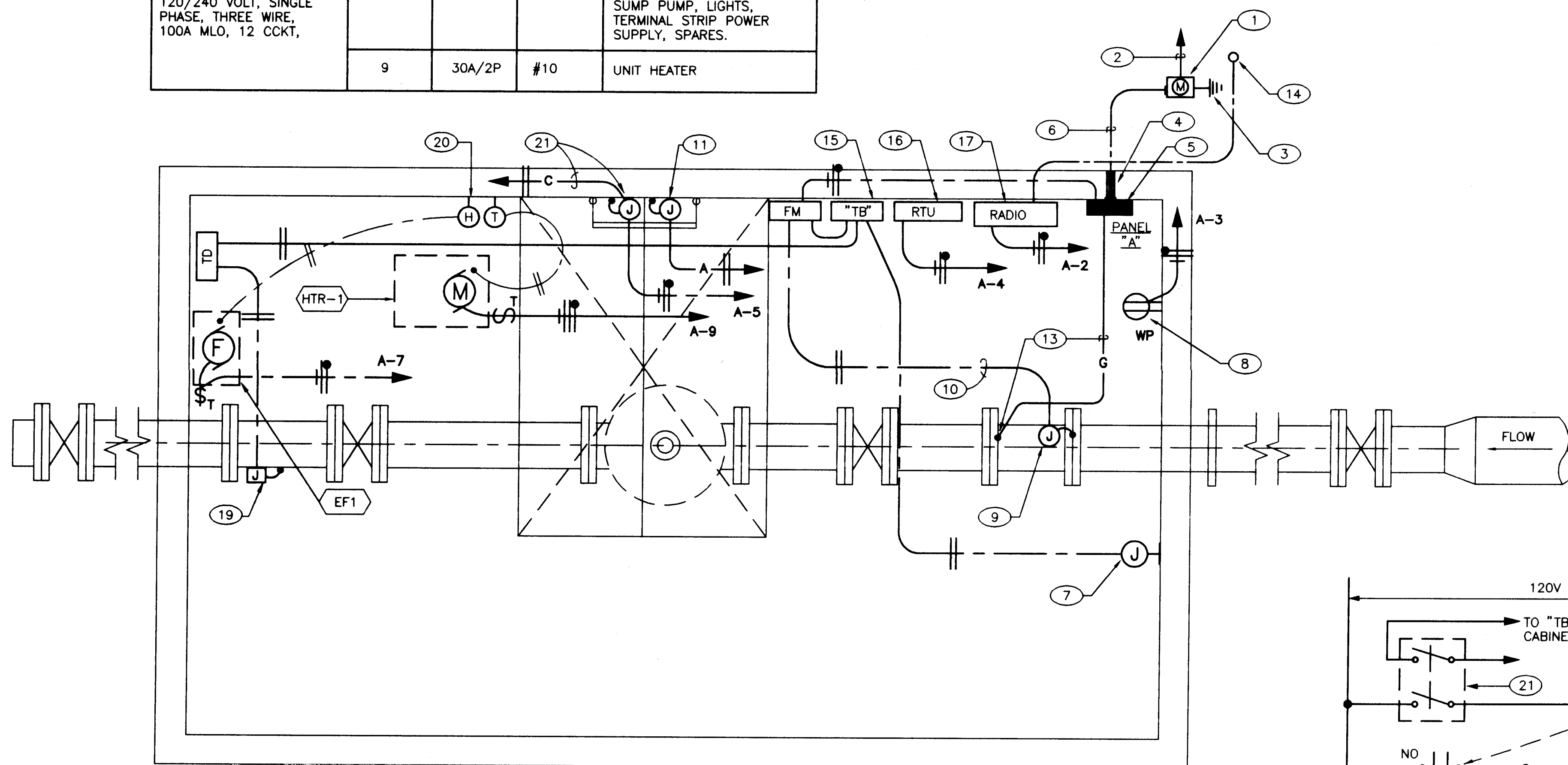
RECORD DRAWING
DATE: 11-27-95

APPROVALS		ENGINEER	DATE	APPROVAL	ENGINEER	DATE
DRG CHAIRMAN		By: [Signature]	12-23-94	[Signature]		12-23-94
TRANSPORTATION		MR. LHO	10-28-94	[Signature]		10-28-94
HYDROLOGY		C. Mudge	12-14-94	[Signature]		12-14-94
DRAWING NO.		5004.90	MAP NO.	E21.22	SHEET 14 OF 17	

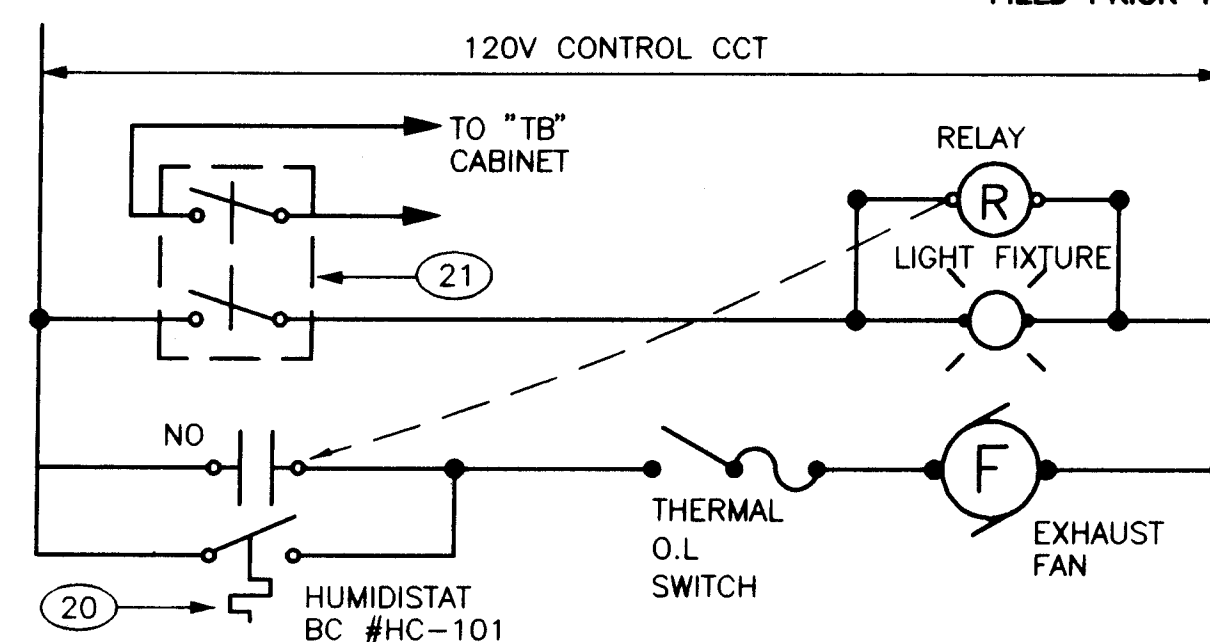


PRV STATION INTERIOR - LIGHTING PLAN
N.T.S

PANEL SCHEDULE				
PANEL DESCRIPTION	CCT NO	CCT BKR	WIRE SIZE	LOAD
PANEL "A" 120/240 VOLT, SINGLE PHASE, THREE WIRE, 100A MLO, 12 CCT,	1-8,10,12	20A/1P	#12	RTU, RADIO, EXH FAN, SUMP PUMP, LIGHTS, TERMINAL STRIP POWER SUPPLY, SPARES.
	9	30A/2P	#10	UNIT HEATER



PRV STATION INTERIOR - POWER & CONTROL PLAN
N.T.S



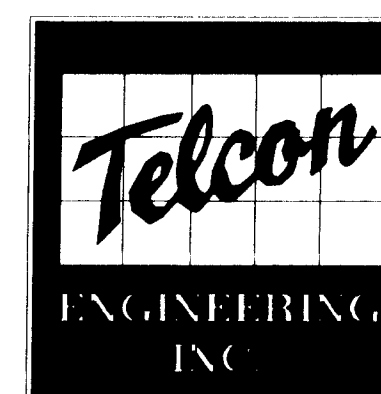
LIMIT SWITCH CONTROL DIAGRAM
LIGHTS/EXHAUST FAN INTERLOCK

KEYED NOTES

- PEDESTAL TYPE 100 AMP, 120/240 VOLT, SINGLE PHASE METER AND MAIN CIRCUIT BREAKER. MIDWEST #R100T OR APPROVED EQUAL. PROVIDE AND INSTALL 16" X 16" X 6" CONCRETE PAD PER PNM DRAWING #DS-19-84.0. SEE DETAIL ON SHEET # 16. COMPLY WITH ALL PNM REQUIREMENTS. SEE WATERLINE PLAN AND PROFILE FOR EXACT LOCATION OF METER PEDESTAL AND ROUTING AND SIZE OF CONDUIT AND CONDUCTORS.
- 2" CONDUIT WITH CONDUCTORS AS REQUIRED, MINIMUM 24" BELOW GRADE. SEE WATERLINE PLAN AND PROFILE DRAWINGS FOR CONDUCTORS SIZE AND ROUTING.
- 5/8" X 8" COPPERCLAD GROUND ROD. EXTEND 1/2" GALVANIZED RIGID CONDUIT WITH 1-#6 BSD COPPER GROUND CONDUCTOR TO GROUND ROD AND WATER PIPING PER PNM REQUIREMENTS AND NEC ARTICLE #250.
- PROVIDE WATERPROOF SEAL AT CONDUIT PENETRATION THROUGH VAULT. SEE SPECIFICATIONS.
- PROVIDE AND INSTALL 100 AMP, 120/240 VOLT, SINGLE PHASE, THREE WIRE CIRCUIT BREAKER PANEL, PER SCHEDULE ON THIS SHEET.
- 2" CONDUIT WITH 3-#2 THWN + 1-#6 GROUND.
- JUNCTION BOX FOR CONNECTION TO VAULT FLOOD LEVEL ELEMENT. ELEMENT SHALL BE FURNISHED BY THE GENERAL CONTRACTOR, INSTALLED BY THE ELECTRICAL CONTRACTOR.
- PROVIDE AND INSTALL WEATHERPROOF, GFI DUPLEX RECEPTACLE UP +24" AFF.
- JUNCTION BOX FOR CONNECTION TO FLOW SENSING ELEMENT. ELEMENT SHALL BE FURNISHED BY OTHERS, INSTALLED AND CONNECTED BY THE ELECTRICAL CONTRACTOR.
- 3/4" GALVANIZED RIGID CONDUIT (GRC) WITH CABLE FURNISHED BY OTHERS.
- WEATHERPROOF JUNCTION BOX FOR CONNECTION TO TWO POLE, MICROSWITCH SQUARE "D" #C62E, HEAVY DUTY LIMIT SWITCH FOR INTRUSION ALARM. EXTEND 3/4" GRC WITH ONE TWISTED SHIELDED PAIR CABLE TO "TB" CABINET.
- PROVIDE AND INSTALL A 2-LAMP STRIP FLUORESCENT, ENCLOSED SURFACE MOUNTED LIGHT FIXTURE, LITEOLIER #STD242120-OC-CW WITH #AWG5 WIRE GUARD, OR APPROVED EQUAL. PROVIDE WITH TWO EACH 32 WATT F032/T8 LAMPS, AND ELECTRONIC BALLAST.
- PROVIDE AND INSTALL A #6 STRANDED COPPER CONDUCTOR FROM PIPE FLANGE CONNECTOR TO GROUNDING OF PANEL "A".
- 6" X 6" X 20' SQUARE STEEL POLE, TEXAS POLE # OR APPROVED EQUAL. MOUNT TELEMETRY SYSTEM ANTENNA PER DETAIL ON SHEET # 16.
- POWER SUPPLY AND TERMINAL CABINET PER DETAIL ON SHEET # 9 OF 11.
- RTU CABINET FURNISHED BY THE CITY OF ALBUQUERQUE, MOUNTED BY THE ELECTRICAL CONTRACTOR. SEE DETAIL ON SHEET # 9 OF 11.
- RADIO AND TELEMETRY EQUIPMENT FURNISHED BY THE CITY OF ALBUQUERQUE, MOUNTED BY THE ELECTRICAL CONTRACTOR. SEE DETAILS ON SHEET # 16.
- WEATHERPROOF SINGLE POLE SWITCH FOR CONTROL OF VAULT LIGHTING.
- WEATHERPROOF JUNCTION BOX FOR PRESSURE TRANSDUCER SENSOR CONNECTION.
- HUMIDISTAT BARBER COLEMAN #HC-101 OR EQUAL.
- DPDT MICRO SWITCH SQUARE "D" TYPE C - HEAVY DUTY TURRET HEAD CLASS 9007, WITH STANDARD PLUG-IN BOX CATALOG #C62E, OR EQUAL TO ENERGIZE LIGHTS AND EXHAUST FAN WHEN DOOR IS OPENED. REFER TO CONTROL DIAGRAM ON THIS SHEET.

GENERAL NOTES

- ALL CONDUIT SHALL BE GALVANIZED RIGID STEEL, 3/4" MINIMUM SIZE. ALL CONDUIT IN CONTACT WITH THE EARTH SHALL BE PVC COATED.
- MINIMUM BURY OF UNDERGROUND CONDUIT SHALL BE 24" BELOW FINISHED GRADE.
- ALL WIRING SHALL BE #12 MINIMUM, THHN/THWN, STRANDED UNLESS OTHERWISE INDICATED.
- LOCATIONS OF ALL EQUIPMENT SHALL BE VERIFIED IN THE FIELD PRIOR TO INSTALLATION.



SCANNED BY LASON

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	MEC, Inc.	NO.	DATE	NO.	DATE	NO.	DATE
DESIGNED BY	ALM Surveying	BY	DATE	BY	DATE	BY	DATE
INSPECTED BY	BH/T	NO.	DATE	NO.	DATE	NO.	DATE
FIELD VERIFICATION BY	BH/T	NO.	DATE	NO.	DATE	NO.	DATE
COMPLETED BY	BH/T	NO.	DATE	NO.	DATE	NO.	DATE
MICRO-FILM INFORMATION		REVISIONS		DESIGN		DESIGNED BY R. DUPLY	
RECORDED BY		NO.		DATE		DATE	
NO.		NO.		NO.		NO.	

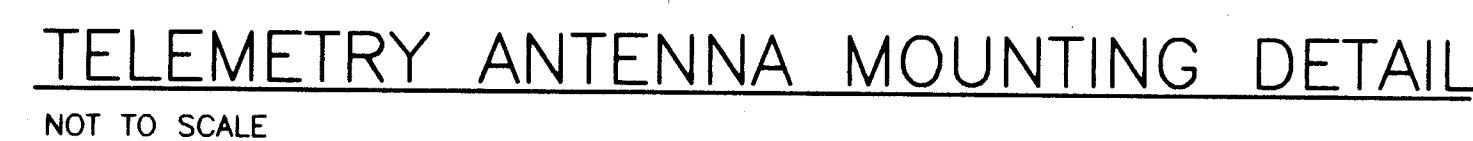
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
2 6 - 13 14 19 4 10 11 15 19 17

Void - See Prefabricated
PRV Detail Sheets



RECORD DRAWING
DATE: 11-27-95

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
SAN ANTONIO CORRIDOR WATERLINE PHASE 1A PRESSURE REDUCING VALVE STATION ELECTRICAL PLANS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRG CHAIRMAN	B. K. H.	12-23-94	WATER	G. Meeker	12/23/94
TRANSPORTATION	M. B. R. H.	12-15-94	WASTE WATER		
HYDROLOGY	C. A. M.	12-14-94			
COUNTY			COUNTY		
DRAWING NO. 5004.90			MAP NO. E21,22,23		
SHEET 15			OF 17		

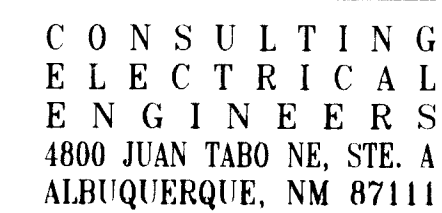


NOTE: DASHED LINES INDICATES EQUIPMENT AND/OR PIPING FURNISHED AND INSTALLED BY GENERAL CONTRACTOR.



1. PEDESTAL TYPE 100 AMP, 120/240 VOLT, SINGLE PHASE METER AND MAIN CIRCUIT BREAKER. MIDWEST #R100T OR APPROVED EQUAL. PROVIDE AND INSTALL 16" X 16" X 6" CONCRETE PAD PER PNM DRAWING #DS-19-84.0. SEE DETAIL ON SHEET # 16. COMPLY WITH ALL PNM REQUIREMENTS. SEE WATERLINE PLAN AND PROFILE FOR EXACT LOCATION OF METER PEDESTAL AND ROUTING AND SIZE OF CONDUIT AND CONDUCTORS.
2. 2" CONDUIT WITH CONDUCTORS AS REQUIRED, MINIMUM 24" BELOW GRADE. SEE WATERLINE PLAN AND PROFILE DRAWINGS FOR CONDUCTORS SIZE AND ROUTING.
3. 5/8" X 8" COPPERCLAD GROUND ROD. EXTEND 1/2" GALVANIZED RIGID CONDUIT WITH 1-#6 BSD COPPER GROUND CONDUCTOR TO GROUND ROD AND WATER PIPING PER PNM REQUIREMENTS AND NEC ARTICLE #250.
4. PROVIDE WATERPROOF SEAL AT CONDUIT PENETRATION THROUGH VAULT, WITH LONG SWEEP 90 DEGREE BENDS. SEE SPECIFICATIONS.
5. PROVIDE AND INSTALL 100 AMP, 120/240 VOLT, SINGLE PHASE, THREE WIRE PANELBOARD PER SCHEDULE ON SHEET #8 OF 11.
6. 2" CONDUIT WITH 3-#2 THWN + 1-#6 GROUND.
7. 2" EMPTY GRC CONDUIT.
8. 2" RIGID CONDUIT WITH ANTENNA TRANSMISSION LEAD USE LONG SWEEP 90 DEGREE BENDS TO ENTER PRV STATION.
9. 1" EMPTY GRC CONDUIT.
10. TERMINAL STRIP FOR INPUTS.
11. CONCRETE PAD PER PNM DRAWING #DS-19-84.0.
12. POWER SUPPLY AND TERMINATION CABINET. POWER SUPPLY SHALL BE FURNISHED BY THE CITY OF ALBUQUERQUE, MOUNTED BY THE ELECTRICAL CONTRACTOR.
13. RTU CABINET FURNISHED BY THE CITY OF ALBUQUERQUE, INSTALLED BY THE ELECTRICAL CONTRACTOR.
14. RADIO TELEMETRY EQUIPMENT FURNISHED BY THE CITY OF ALBUQUERQUE, MOUNTED BY THE ELECTRICAL CONTRACTOR.
15. 24" X 24" X 6" HINGED COVER CABINET.
16. TERMINAL STRIP, FOR INPUTS.
17. TERMINAL STRIP
18. FLOOD SENSOR RELAY
19. POWER SUPPLY FURNISHED BY THE CITY OF ALBUQUERQUE, INSTALLED BY THE ELECTRICAL CONTRACTOR.
20. 3/4" X 10' COPPERCLAD GROUND ROD WITH EXOTHERMIC WELD (CADWELD OR EQUAL) TO THE GROUNDING CONDUCTOR.
21. 1/0 COPPER CONDUCTOR.
22. EXOTHERMIC WELD (CADWELD OR EQUAL) OF THE GROUNDING CONDUCTOR TO THE POLE BASE.
23. 4" X 4" X 25' SQUARE STEEL POLE. MOUNT TELEMETRY SYSTEM ANTENNA TO POLE.
24. 2" CEE AND 2" RIGID RISER ABOVE METAL SUPPORT POLE.
25. 3/4" GRC CONDUIT TO PANEL "A". WITH 120V WIRING.

RECORD DRAWING
DATE: 11-27-95



SCANNED BY
BY LASON



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

SAN ANTONIO CORRIDOR WATERLINE PHASE 1A
PRESSURE REDUCING VALVE STATION ELECTRICAL DETAILS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	<i>S. J. S.</i>	12-23-94	WATER	<i>S. J. S.</i>	12/15/94
TRANSPORTATION	<i>NA RHO</i>	12-15-99	WASTE WATER	<i>S. J. S.</i>	12/15/94
HYDROLOGY	<i>C.A.M.</i>	12-14-94	COUNTY	<i>S. J. S.</i>	12/15/94

DRAWING NO.	5004.90	MAP NO.	E21,22,23	SHEET	16	OF	17
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