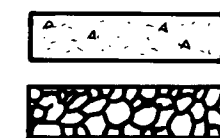


- L E G E N D -

MATERIALS

CONCRETE

RIP-RAP



LINES

RIGHT-OF-WAY

PROPERTY LINE (PLAN)

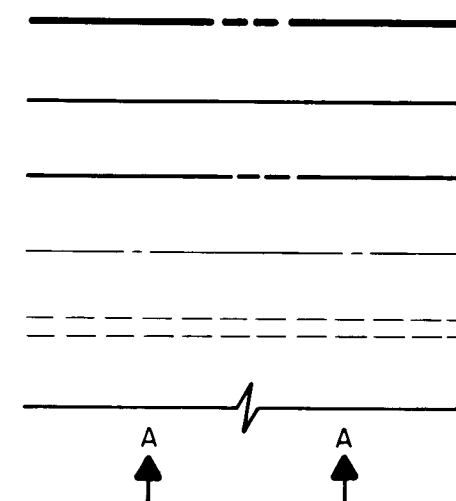
RIGHT-OF-WAY (SECTION)

CENTERLINE

EASEMENT LINE

MATCH LINE

SECTION CUT LINE



EARTHWORK

CONTOUR LINE

SPOT ELEVATION

PROJECT / PHASE BOUNDARY

SWALE

DIRECTION OF FLOW



MISCELLANEOUS UTILITIES

GAS LINE

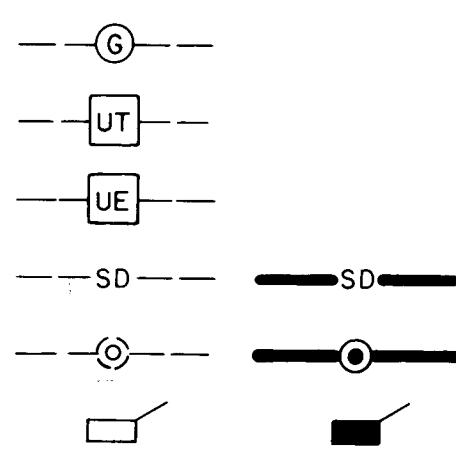
UNDERGROUND TELEPHONE

UNDERGROUND ELECTRICAL

STORM DRAIN

STORM DRAIN MANHOLE

STORM DRAIN INLET



SANITARY SEWER

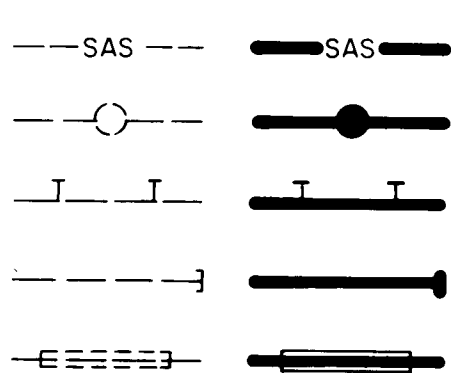
SANITARY SEWER LINE

SANITARY SEWER MANHOLE

SAS SERVICE CONNECTIONS

SAS CAP OR PLUG

ENCASEMENT



WATER

WATER LINE WITH CAP

WATER SERVICE CONNECTIONS

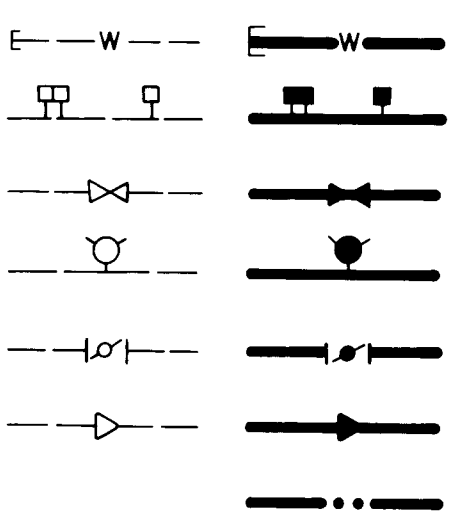
GATE VALVE

FIRE HYDRANT

BUTTERFLY VALVE

REDUCER

WATER PRESSURE ZONE BOUNDARY



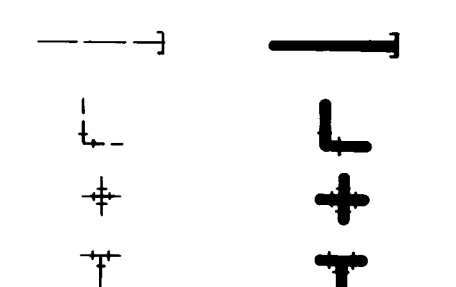
WATER FITTINGS

CAPS AND PLUGS

ELBOW

CROSS

TEE



MISCELLANEOUS

EDGE OF ASPHALT

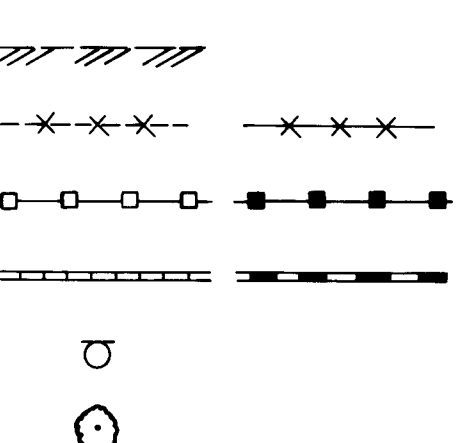
FIELD FENCE/CHAINLINK FENCE

COMMON YARD WALL/BLOCK WALL

RETAINING WALL

POWER OR TELEPHONE POLE

TREE



ACADEMY ROAD

WATER, SAS & DRAINAGE

REHABILITATION

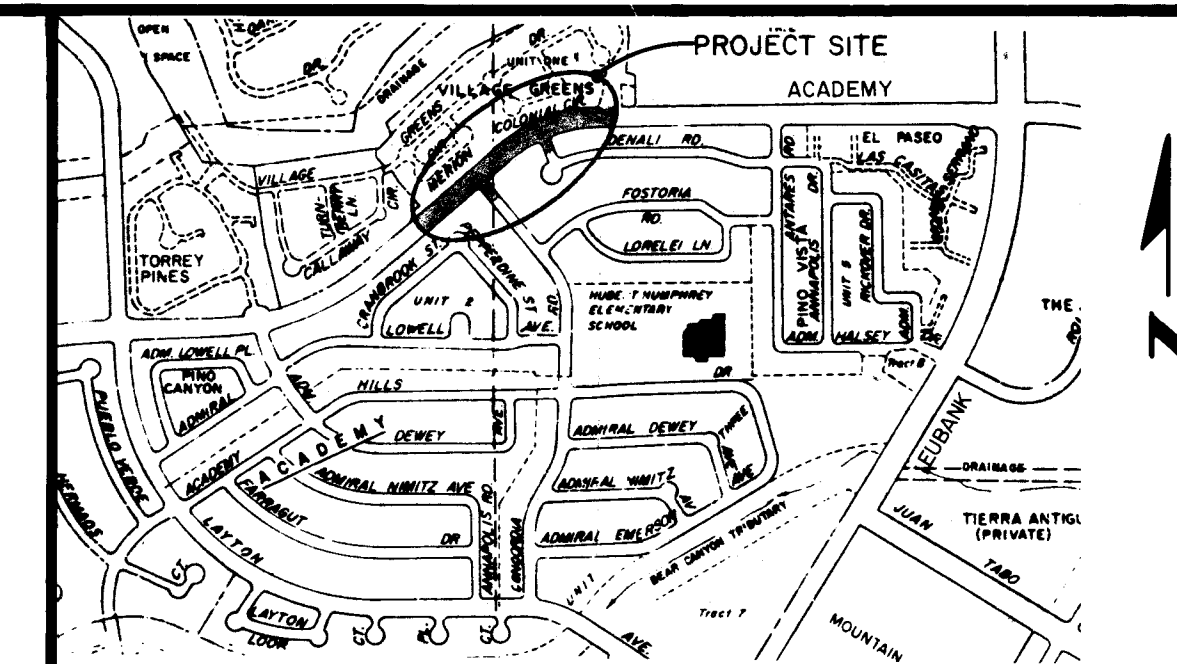
CONCORDIA ROAD N.E. TO

DENALI ROAD N.E.

INDEX TO SHEETS

SHEET TITLE	SHEET NO.
-------------	-----------

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PLAN AND PROFILE - STORM DRAINAGE STATION 1+00 TO STA. 2+61.08	4
PLAN AND PROFILE - WATERLINE STATION 9+40 TO 14+70	5
PLAN AND PROFILE - SAS LINE STATION 10+00 TO 14+55	6
PLAN AND PROFILE - PAVING & IRRIGATION DRAIN SYSTEM STATION 9+54 TO 14+75	7
SECTIONS AND DETAILS - WATER AND SAS	8
SECTIONS AND DETAILS - PAVING	9
CONSTRUCTION TRAFFIC CONTROL PHASE - I	10
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IRRIGATION REMOVAL PLAN	12
IRRIGATION IMPROVEMENTS	13
IRRIGATION DETAILS	14
PLANTING IMPROVEMENTS	15
WATER SHUT-OFF PLAN	16

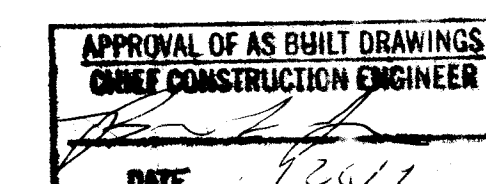


SCALE 1"=100'

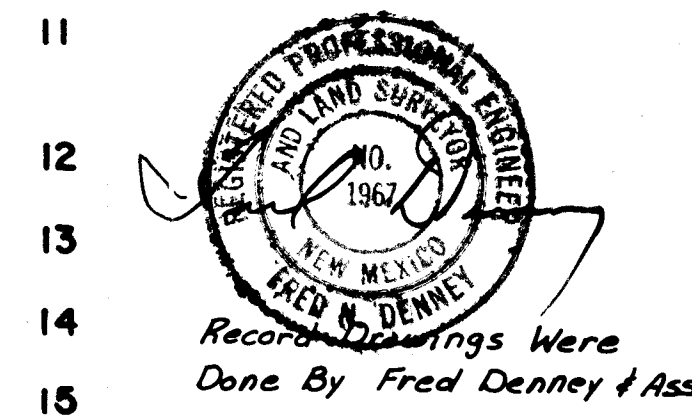
LOCATION MAP (E-21)

ABBREVIATIONS (APPLY TO ALL SHEETS)

AC - ASBESTOS CEMENT
CCYL - CONCRETE CYLINDER LINE
CI - CAST IRON
CL - CENTERLINE
DIP - DUCTILE IRON PIPE
EX - EXISTING
ELEV - ELEVATION
F-F - FACE TO FACE
F/F - FEET/FOOT
FH - FIRE HYDRANT
FO - FIBER OPTIC CABLE
G - GAS
HP - HIGH PRESSURE
MH - MANHOLE
REL - RELOCATE
ROW - RIGHT-OF-WAY
SAS - SANITARY SEWER
SD - STORM DRAIN
TP - TOP OF PIPE
UE - UNDERGROUND ELECTRICAL
UT - UNDERGROUND TELEPHONE CABLE
UTV - UNDERGROUND CABLE TELEVISION
VCP - VITRIFIED CLAY PIPE
W OR WL - WATERLINE
F.E.J. - FLEXIBLE EXPANSION JOINT



C of A PWD Maps & Records
26 131344 011910



RECORD DRAWING

Date: 9-26-89

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPT.	DATE	USER DEPT.	DATE
1	4, 5, 6, 7						

APPROVAL OF REVISIONS

	CITY OF ALBUQUERQUE	APPROVED FOR CONSTRUCTION
DRAWING NO. 3344	SHEET 1 OF 16	

GENERAL NOTES

- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE NOTED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS - PUBLIC WORKS CONSTRUCTION - 1986.
- TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
- UTILITIES LOCATIONS AS SHOWN ON THESE DRAWINGS ARE APPROXIMATE. IT IS POSSIBLE THAT THE EXACT LOCATION OF LINES AND UTILITY CONNECTION POINTS IN THE IMMEDIATE VICINITY OF THE PROPOSED SITE MAY BE SLIGHTLY DIFFERENT FROM THE LOCATION SHOWN ON THIS DRAWING. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
- 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 CONSTRUCTION SAFETY AND HEALTH.
- THE CONTRACTOR MUST SUBMIT A CONSTRUCTION SIGNING AND BARRICADING PLAN TO TRAFFIC ENGINEERING FOR A BARRICADING PERMIT 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL PROPOSED UTILITIES LINES SHALL BE INSTALLED PRIOR TO PAVING EXCEPT TEMPORARY PAVING AND ASPHALT BERMS FOR TRAFFIC DETOURING AND CONSTRUCTION DRAINAGE AS SHOWN ON SHEET NO.'S 3, 10 AND 11.
- BACKFILL & COMPACTION SHALL BE ACCORDING TO BACKFILL AND BEDDING DETAILS AS SHOWN ON SHEET NO. 8.
- TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- IF CURB IS DEEPER FOR A DRIVEPAD OR A HANDICAP RAMP, THE DRIVEPAD OR RAMP SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF THE CURB AND GUTTER.
- SIDEWALKS AND WHEELCHAIR RAMPS SHALL BE CONSTRUCTED WHEREVER AND A NEW CURB RETURN IS CONSTRUCTED.
- ALL STATIONING SHALL BE BASED ON CONSTRUCTION CENTERLINE EXCEPT AS NOTED OTHERWISE HEREBON.
- PAINTING FOR TRAFFIC STRIPING SHALL BE CONDUCTED BY OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, SUPPORTING AND MAINTAINING IN SERVICE ALL EXISTING UTILITIES. ANY DAMAGE TO UTILITIES OR SERVICES LINES THAT DO NOT REQUIRE RELOCATION BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE. THIS EXPENSE SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE. GRANTING OF ADDITIONAL WORK DAYS UNDER THIS SITUATION MIGHT NOT BE ALLOWED AND SHALL BE AT THE DISCRETION OF THE ENGINEER.
- CHANGES IN PIPELINE LAY-OUT DETERMINED NECESSARY TO CONFORM TO FIELD CONDITIONS MAY REQUIRE ADDITIONAL MATERIALS NOT INDICATED ON THIS PLAN. ALL CHANGES SHALL BE APPROVED BY THE ENGINEER.
- ONLY WATER SYSTEMS DIVISION PERSONNEL ARE AUTHORIZED TO OPERATE EXISTING VALVES, FIRE HYDRANTS, ETC. THREE (3) FULL WORKING DAYS PRIOR TO PROPOSED WORK SHUT OFFS, CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE DIVISION PERSONNEL AT 823-4200.
- STATIONING SHOWN ON THE DRAWINGS IS TO PROVIDE GENERAL GUIDANCE AS TO OVERALL INTENT OF HORIZONTAL/VERTICAL ALIGNMENT OF WATERLINES. ADJUSTMENTS TO INDICATED LAYOUT MAY BE REQUIRED TO SUIT FIELD CONDITIONS. CONTRACTOR SHALL PROVIDE PROVISION IN UNIT PRICES BID FOR FIELD ADJUSTMENTS. NO SEPARATE PAYMENT SHALL BE MADE IN THIS REGARD.
- CONTRACTOR SHALL SCHEDULE SUBMITTAL OF FIVE (5) COPIES OF SHOP DRAWINGS TO ALLOW A THREE WEEK REVIEW TIME BY THE ENGINEER.
- INSTALLATION AND REMOVAL OF TEMPORARY ASPHALT PAVING, ASPHALT BERMS AND 6 FEET TEMPORARY CHAINLINK FENCE AS DEPICTED ON SHEET NO.'S 11 AND 12-CONSTRUCTION TRAFFIC CONTROL, SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION TRAFFIC CONTROL AND NO SEPARATE PAYMENT SHALL BE MADE THEREOF.
- THE FOLLOWING LAYING CONDITION AND SOIL (SANDY SILT) PARAMETERS WERE USED IN THE COMPUTATION OF PIPE RESTRAINING FOR THE PROPOSED DIP WATERLINES:
RATIO OF PIPE FRICTION ANGLE TO SOIL FRICTION ANGLE = 0.50
RATIO OF PIPE COHESION TO SOIL COHESION = 0.00
INTERNAL PRESSURE 18" WATERLINE = 50 PSI
INTERNAL PRESSURE 10" WATERLINE = 100 PSI
SOIL INTERNAL FRICTION ANGLE = 30 DEGREES
BACKFILL SOIL DENSITY = 90 PCF
SOIL COHESION = 0 PSF
SAFETY FACTOR = 1.5
IF HIGH GROUND WATER OR POOR SOIL CONDITIONS ARE ENCOUNTERED, CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE MODIFICATIONS TO PIPE RESTRAINING.
- THE CONTRACTOR SHALL COORDINATE REQUIRED UTILITY RELOCATIONS VIA THE FOLLOWING INDIVIDUALS:
PUBLIC SERVICE COMPANY OF NEW MEXICO - JIM VANN 761-3426
TELEPHONE - JOYCE ELLIOTT 765-8787
CABLE T.V. - YVETTE SUAZO-TUCKER 761-6200
GAS COMPANY OF NEW MEXICO - ANITA RATHER 889-2533
- CONTRACTOR SHALL ADVISE THE TELEPHONE COMPANY PER NOTE 21 ABOVE AFTER EXPOSING EXISTING TELEPHONE CONDUIT AT CONCORDIA FOR THEIR INSPECTION. CONTRACTOR SHALL ALSO ADVISE THE TELEPHONE COMPANY OF CONSTRUCTION SCHEDULE IN ORDER TO ALLOW THEIR ENCASMENT OF SAID CABLE.

SURVEY SERVICES

- The Contractor's attention is directed to Section 9 of the Special Provisions in regards to Construction Survey and Emergency Survey.
- Record data including stations, offsets and elevations for all proposed pipe settlement gauges shall be submitted to the owner within two weeks of substantial completion of each utility line detailed for this contract. This work shall be incidental to construction surveying and no separate payment shall be made thereof.
- All elevations shown on these plans should be adjusted by a value of negative 0.035.
- For the Contractor's information, design survey was performed by:
Santiago Romero Jr. & Associates
6139 Edith Blvd. N.E.
Albuquerque, New Mexico 87107
(505) 345-2733

SPECIAL SITE CONDITIONS AND PRECAUTIONS

- Soil borings of the project site indicates the presence of collapsible soils. Due to the sensitive nature of collapsible soils to water, it is critical that the migration of water from the project site to adjacent residential areas be eliminated. The following precautions must be observed by the Contractor:
 - Proposed construction drainage concept and construction sequence as depicted on Sheets 3 and 4 shall be adhered to by the Contractor. No commencement of waterline and sanitary sewer excavation will be allowed unless all required drainage items as shown on Sheet 4 have been constructed and accepted for proper functioning by the Engineer.
 - The Contractor shall be responsible to ensure and maintain the proper functioning of the storm drainage system at all times throughout this contract including weekends and holidays. The owner shall not be held liable for any damage caused directly or indirectly resulting from the malfunctioning and/or failure of the storm drain system. This work shall be considered incidental to the various storm drainage items.
 - The Contractor shall follow closely the proposed sequence of construction as detailed on these plans. Proposed deviations in this regard must be submitted to the Engineer for approval.
 - A detailed construction schedule for each phase of work shall be submitted to the Engineer for review two (2) working days prior to the scheduled pre-construction meeting.
 - Open trenches longer than fifty (50) feet along pipe centerline shall not be allowed at any time. It shall be the Contractor's responsibility to maintain that no open trenches be subjected to water ponding at all times. The Contractor's attention is directed to Section 701.17.7 of the Supplemental Technical Specifications in regards to Trench Dewatering.

STORM DRAIN NOTES

- All proposed storm drain lines shall be PVC ribbed drain pipes manufactured in conformance with AASHTO 18.4.3.2.1. Refer to Supplemental Technical Specifications for specific requirements.
- Storm drain system shall be protected and maintained throughout Phase I and Phase II of utility installations.
- Due to soil settlement in the project site area, it is a concern for the integrity of the existing 18 inch concrete cylinder well collector line especially where the existing 36 inch RCP storm drain crosses over. This location is approximately 21.1 feet left of Construction Centerline Station 13+38 as shown on Sheet No. 4. During construction of the proposed storm drain, the Contractor shall pothole at this location to expose the existing 18" concrete cylinder line for the Engineer's inspection.
- Prior to acceptance of all proposed storm drain lines detailed on these drawings, a satisfactory air test shall be conducted in accordance with Section 901.7.4.2 of the Standard Specifications using a test pressure of 10 psig.

WATER LINE AND SANITARY SEWER NOTES

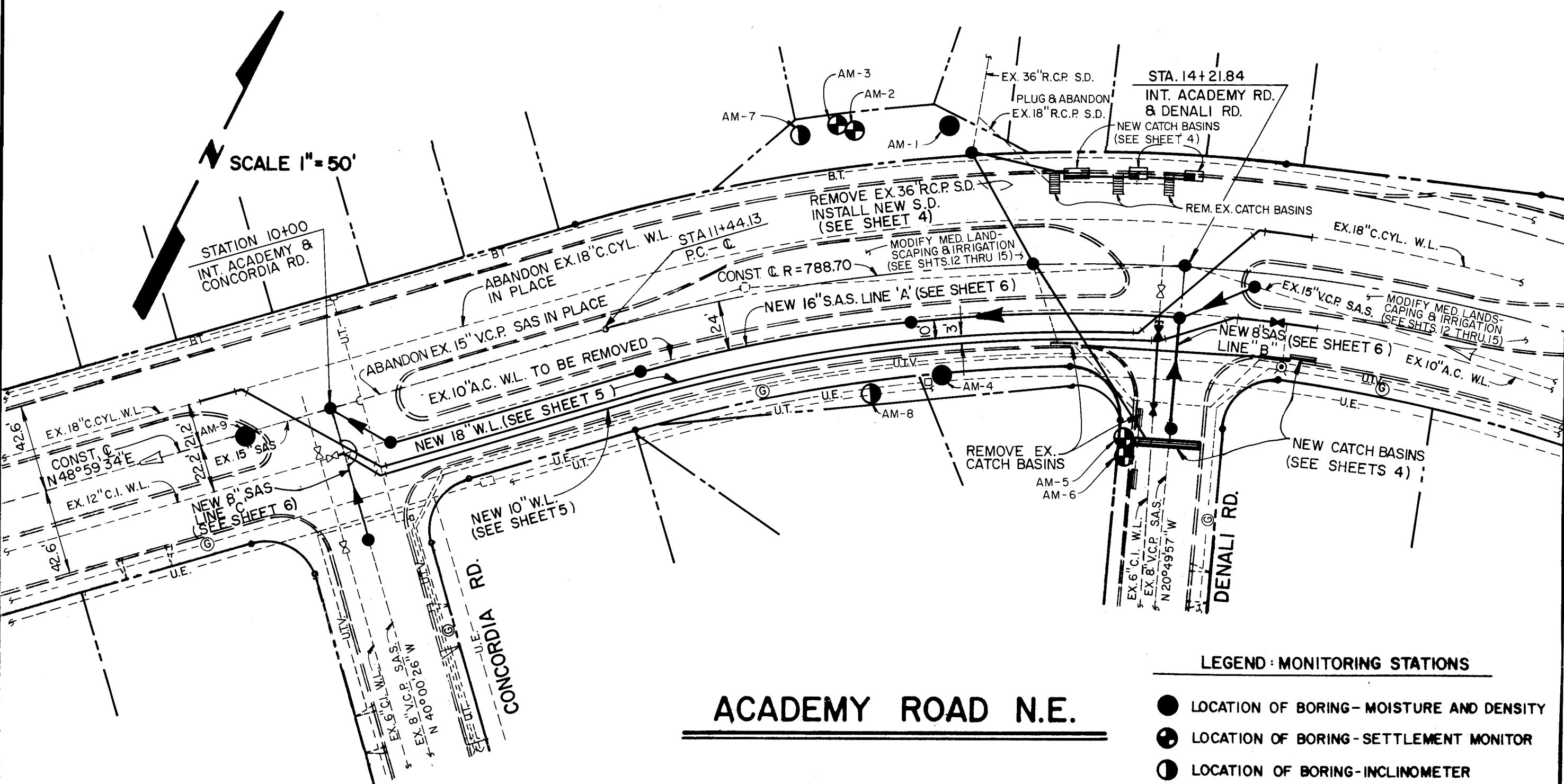
- All new waterline and sanitary sewer lines detailed on these drawings shall be constructed of "TR-FLEX" Restrained Joint, Class 50, Ductile Iron Pipe and Fittings manufactured by U.S. Pipe and Foundry Company, Birmingham, Alabama or approved equal.
- All field cuts made to TR-FLEX type D.I.P. shall be done in accordance to manufacturer's recommendations and shall be restrained with the TR-FLEX gripper rings or approved equal.
- All TR-FLEX type D.I.P. sockets shall be fully extended after installation of each segment prior to initial backfill. This shall be accomplished by pulling the pipe through the casing.
- Polyethylene encasement shall be used for all proposed waterlines and sanitary sewers in accordance with AWWA C-105.
- Interior of all pipe shall be blasted, primed, and cement mortar lined according to AWWA C-104.
- Complete shop drawings and notes shall be submitted to the Engineer for review prior to fabrication. As a minimum, shop drawings for the following item shall be provided:
Transition for 18" inch concrete cylinder to D.I.P. water line:
A. Station 9+40 - 21.1 feet Lt.
B. Station 14+85 - 21.1 feet Lt.
- Flexible Expansion Joints (F.E.J.) detailed on these plans shall be as manufactured by EBAA Iron or approved equal. The contractor's attention is directed to the Supplemental Technical Specifications for specific requirements.
- The Contractor's attention is directed to the Supplemental Technical Specifications for leakage test requirements on D.I.P. water lines.
- Polyvinylchloride (PVC) trench liners as depicted on these plans shall be as manufactured by Palco or approved equal and shall conform to all requirements as stipulated in the Supplemental Technical Specifications.
- When construction should disrupt sewage flows in existing sewer facilities, sewage shall be conveyed in closed by-pass conduits and disposed of in a sanitary sewer system. Sewage shall not be permitted to flow in trenches or be covered by backfill.

PROTECTION OF MONITORING STATIONS

All monitoring stations as shown on the Composite Utility Plan and as described below shall be protected by the Contractor throughout the duration of this contract. All costs in the replacement and data re-establishment for any damaged monitoring station shall be borne by the Contractor. In such an event, the owner shall secure the services of the geotechnical firm performing the monitoring services and cause the proper replacement and re-establishment of data for each damaged monitoring station. All costs thus incurred by the owner shall be deducted from the monthly progress payment due Contractor. Protection of monitoring stations shall be incidental to various bid items in this contract.

MONITORING STATION	TYPE DESCRIPTION	CENTERING STATION	OFFSET (FEET)	ELEVATION
AM-1	Moisture & Density	13+13.51	65.20'LT.	5606.08
AM-2	Settlement	12+70.33	71.32'LT.	5604.99
AM-3	Settlement	12+67.14	72.44'LT.	5605.01
AM-4	Moisture & Density	13+14.67	53.58'RT.	5605.98
AM-5	Settlement	14+01.07	81.85'RT.	5609.64
AM-6	Settlement	14+01.05	85.67'RT.	5609.76
AM-7	Inclinometer	12+49.16	70.18'LT.	5604.21
AM-8	Inclinometer	12+71.39	55.49'RT.	5605.45
AM-9	Moisture & Density	9+62.96	02.97'RT.	5598.55

COMPOSITE UTILITY PLAN



LEGEND: MONITORING STATIONS

- LOCATION OF BORING-MOISTURE AND DENSITY
- ⊗ LOCATION OF BORING-SETTLEMENT MONITOR
- ⊕ LOCATION OF BORING-INCLINOMETER

ACADEMY ROAD N.E.

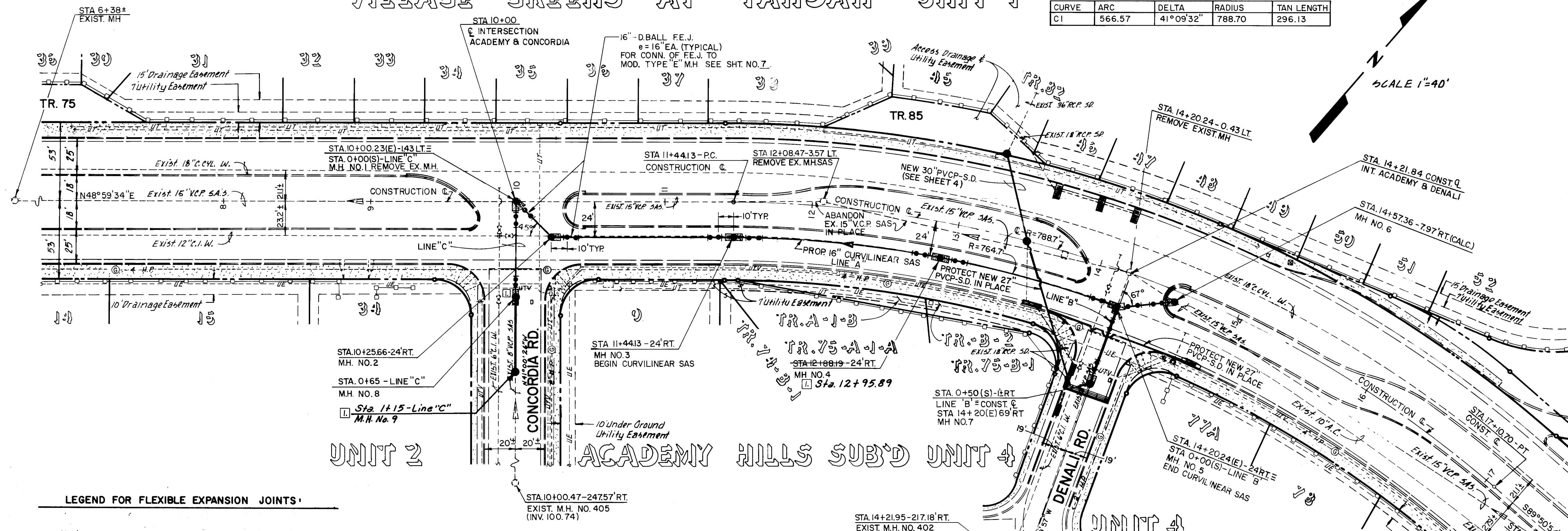
RECORD DRAWING

Date: 9-26-89

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: ACADEMY RD. WATER, SAS & DRAINAGE REHABILITATION CONCORDIA RD. TO DENALI RD. GENERAL NOTES, SPECIAL NOTES, SUGGESTED CONSTRUCTION SEQUENCE AND UTILITY COMPOSITE PLAN			
APPROVALS	ENGINEER	DATE	APPROVALS
D.R.C. Chair	<i>[Signature]</i>	11/18/88	ENGINEER
Trans. Dev.			
Utility Dev.	<i>[Signature]</i>	11/16/88	
Hydrology	<i>[Signature]</i>	10/21/88	
DRAWING NO.	3344	MAP NO.	E-21
		SHEET	2
		OF	12

VILLAGE GREENS AT TANOAN UNIT 1

CONSTRUCTION & CURVE DATA				
CURVE	ARC	DELTA	RADIUS	TAN LENGTH
C1	566.57	41°09'32"	788.70	296.13



LEGEND FOR FLEXIBLE EXPANSION JOINTS:

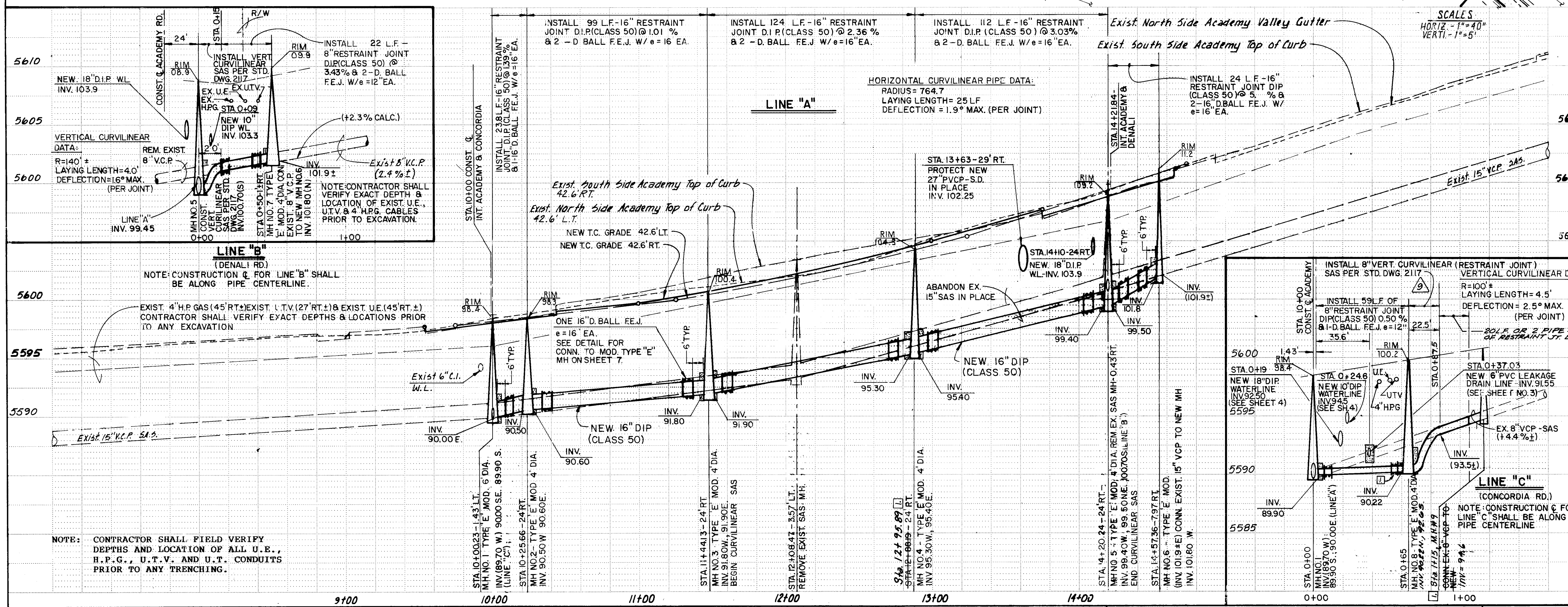
- DOUBLE BALL FLEXIBLE EXPANSION JOINT (FEJ)
- MAXIMUM JOINT EXPANSION IN INCHES

UNIT 2

ACADEMY HILLS SUB'D UNIT 4

UNIT 4

ACADEMY ROAD N.E.



PIPE SETTLEMENT GAUGE INSTALLATION

INSTALL PIPE SETTLEMENT GAUGE PER DETAILS ON SHEET 8 AT THE FOLLOWING LOCATIONS:

LINE "A" (16" DIP ON ACADEMY RD.)

CONSTRUCTION CENTERLINE STATION	OFFSET (FEET)	* POST CONSTRUCTION ELEVATION
10+04.12-1010546	-2.46' RT. 4.12	97.23
10+12.25-1013389	-10.59' RT. 12.38	97.49
10+31.16-1013234	-24' RT. 2.4.17	97.51
10+55.66-1015640	-24' RT. 2.3.98	97.64
11+19.63-1112030	-24' RT. 2.4.13	98.99
11+38.63-1113767	-24' RT. 2.4.12	98.92
11+49.63-1115284	-24' RT. 2.4.13	99.40
11+68.63-1117060	-24' RT. 2.4.10	99.84
12+57.69-1215872	-24' RT. 2.4.13	02.10
12+76.69-1217049	-24' RT. 2.4.25	02.59
12+87.69-1218354	-24' RT. 2.4.07	02.88
13+06.69-1310931	-24' RT. 2.4.15	03.72
13+95.74-1319518	-24' RT. 2.4.20	06.96
14+14.74-1413891	-24' RT. 2.4.16	07.01
14+21.04-1412476	-17.5' RT. 2.1.36	07.54
14+52.94-1413267	-12.4' RT. 11.03	09.19

LINE "B" (8" DIP ON DENALI RD.)

CONSTRUCTION CENTERLINE STATION	OFFSET (FEET)	* POST CONSTRUCTION ELEVATION
0+25-0+25.40	0	08.56
0+35-0+35.40	0	08.83

LINE "C" (8" DIP ON CONCORDIA RD.)

CONSTRUCTION CENTERLINE STATION	OFFSET (FEET)	POST CONSTRUCTION ELEVATION
0+50-0+50.22	0	96.40

* POST CONSTRUCTION STATIONS & ELEVATIONS SHALL BE ESTABLISHED & CERTIFIED BY A LICENSED SURVEYOR WITHIN TWO WEEKS OF SUBSTANTIAL COMPLETION OF THE NEW LINES BY THE ENGINEER. THIS WORK SHALL BE INCIDENTAL TO CONSTRUCTION SURVEYING

C of A PWD Maps & Record
1 2 3 4 5 6 7 8 9 10 11
2 6 3 3 4 4 0 6 9 0

RECORD DRAWING
Date: 9-26-89

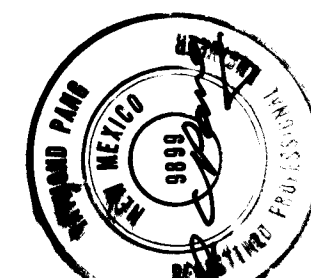
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

TITLE: ACADEMY RD. WATER, SAS & DRAINAGE REHABILITATION
CONCORDIA RD. TO DENALI RD.
PLAN & PROFILE- SAS LINE STATION 10+00 TO 14+55

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair		11/16/89			
Trans. Dev.					
Utility Dev.		11/16/88			
Hydrology		11-21-PP			

DRAWING NO.	MAP NO.	SHEET	OF
3344	E-21	6	16

Note: Unless Otherwise Noted, All Elevations Shown On These Plans Should Be Adjusted By A Value Of Negative 0.035.



17-10-98

REVISIONS	DATE	BY
DESIGNED BY Ray Pang	DATE October 1987	
DRAWN BY A. Sales & A.J. G.S.	DATE October 1987	
CHECKED BY Ray Pang	DATE October 1987	

VILLAGE GREENS AT TANOAN UNIT 1

CONSTRUCTION & CURVE DATA

CURVE	ARC	DELTA	RADIUS	TAN LENGTH
CT	566.57	41°09'32"	788.70	296.13

SCALE 1"=40'

- REMOVE AND REPLACE STANDARD PCC CURB AND GUTTER PER STANDARD DRAWING NO. 2415 AS SHOWN ON PLAN AND PROFILE HEREON.
- REMOVE AND REPLACE 4" PCC SIDEWALK WITH 12" STRIP OF PATTERNED CONCRETE TO MATCH EXISTING COLOR AND PATTERN AND PER STANDARD DRAWING 2430.
- PROTECT EXISTING BLOCK WALL IN PLACE.
- REMOVE AND REPLACE ARTERIAL PAVING PER PAVING SECTION ON SHEET 9.
- REMOVE EXISTING EXTRUDED A.C. CURB AND CONSTRUCT NEW PCC MEDIAN CURB AND GUTTER PER STANDARD DRAWING NO. 2415.
- INSTALL 24" WIDE PCC MEDIAN SHALE PER DETAIL ON SHEET NO. 15.
- INSTALL IRRIGATION SYSTEM AND LANDSCAPING PER SHEET NO. 12 THROUGH 15.
- CONSTRUCT PCC VALLEY GUTTER PER STANDARD DRAWING 2420.
- CONSTRUCT STORM DRAIN SYSTEM, GUTTER TRANSITIONS AND INLETS PER SHEET 4.
- CONSTRUCT SPECIAL FULL-WIDTH INLET AND PAVEMENT TRANSITION PER SHEET 4.
- CONSTRUCT 4" THICK PCC MEDIAN PAVING.
- CONSTRUCT DOUBLE 'D' INLET, IRRIGATION DRAIN LINE HEADWALL AND 8" C-900 PVC LATERAL PER SHEET 3 AND DETAILS ON SHEET 9.
- CONSTRUCT DOUBLE 'D' INLET, IRRIGATION DRAIN LINE HEADWALL AND 4" LATERAL PER SHEET 4 AND DETAILS ON SHEET 9.
- REMOVE AND REPLACE RESIDENTIAL PAVING PER PAVING SECTION ON SHEET 9.
- SALVAGE, PROVIDE TEMPORARY STORAGE FOR AND RELOCATION OF EXISTING STREET LIGHT POLE. CONSTRUCT TYPE I FOUNDATION, AND COORDINATE WITH PM FOR DE-ENERGIZING AND RE-ENERGIZING OF CIRCUIT. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL ASSOCIATED COSTS OF NEW WIRING AND CONDUIT WORK IN COMPLIANCE WITH PM STANDARDS TO COMPLETE THIS RELOCATION.

ACS 8-221 ELEV. 5702.26
Bench mark station is marked on 3 1/4" aluminum cap and is located at the north top of curb of Academy Rd. N.E. approximately 375' feet west of Eubank Blvd.
Note: All elevations shown on plan & profile shall be adjusted by a value of -0.035.

ACADEMY ROAD NE.

Note: Unless Otherwise Noted, All Elevations Shown On These Plans Should Be Adjusted By A Value Of Negative 0.035.

MEDIAN CURVE DATA TABLE

CURVE	RADIUS	DELTA	LENGTH
1	50'	59° 35' 54"	52.01'
2	8'	120° 24' 06"	16.81'
3	150'	13° 38' 56"	35.29'
4	150'	18° 45' 36"	31.39'
5	50'	60° 33' 59"	22.85'
6	8'	122° 02' 45"	17.05'
7	150'	12° 17' 31"	32.18'
8	150'	17° 53' 25"	46.84'
9	150'	13° 06' 53"	34.33'
10	150'	19° 17' 45"	50.52'

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

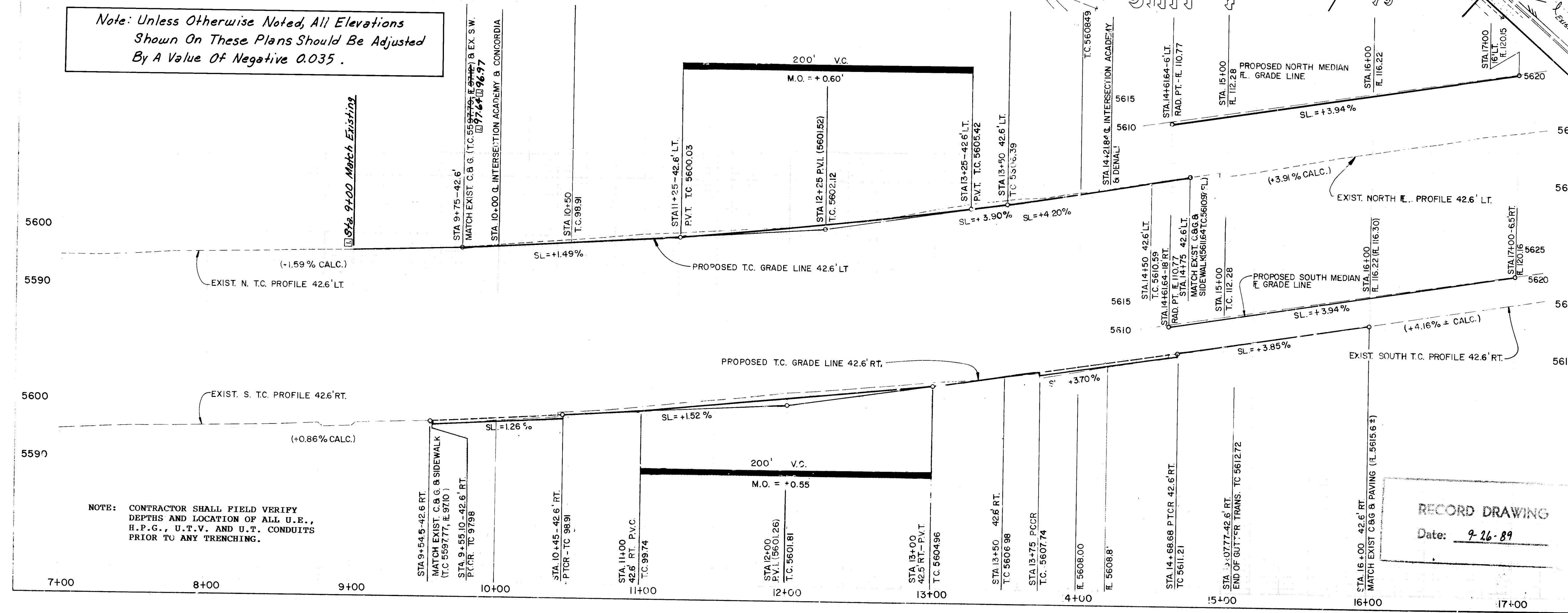
TITLE: ACADEMY RD WATER, SAS & DRAINAGE REHABILITATION
CONCORDIA ROAD TO DENALI ROAD
PLAN & PROFILE PAVING & IRRIGATION DRAIN SYSTEM
STA 9+54 TO STA 14+75

APPROVALS: D.R.C. Chair, Trans. Dev., Utility Dev., ENGINEER, DATE, APPROVAL, ENGINEER, DATE

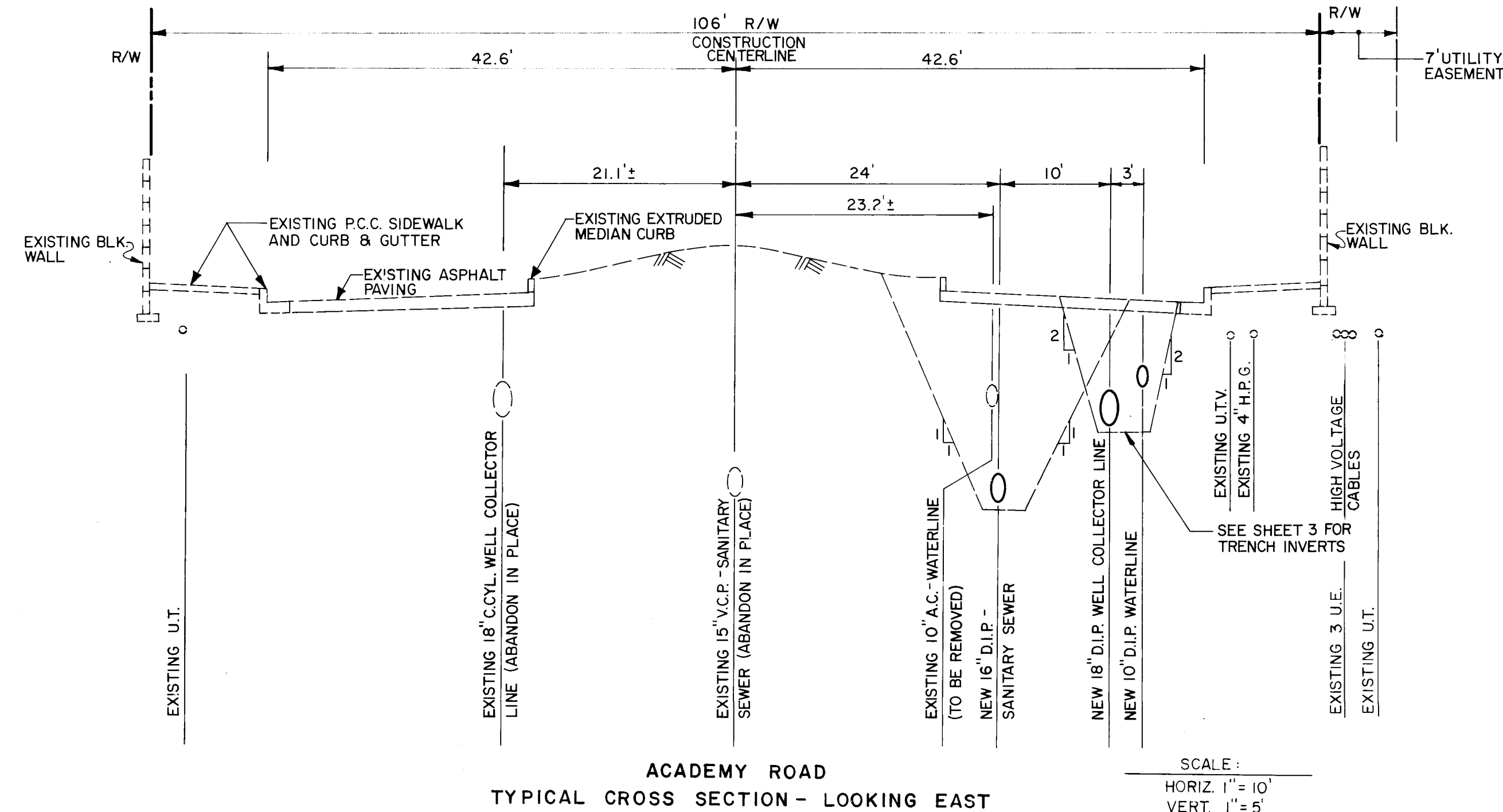
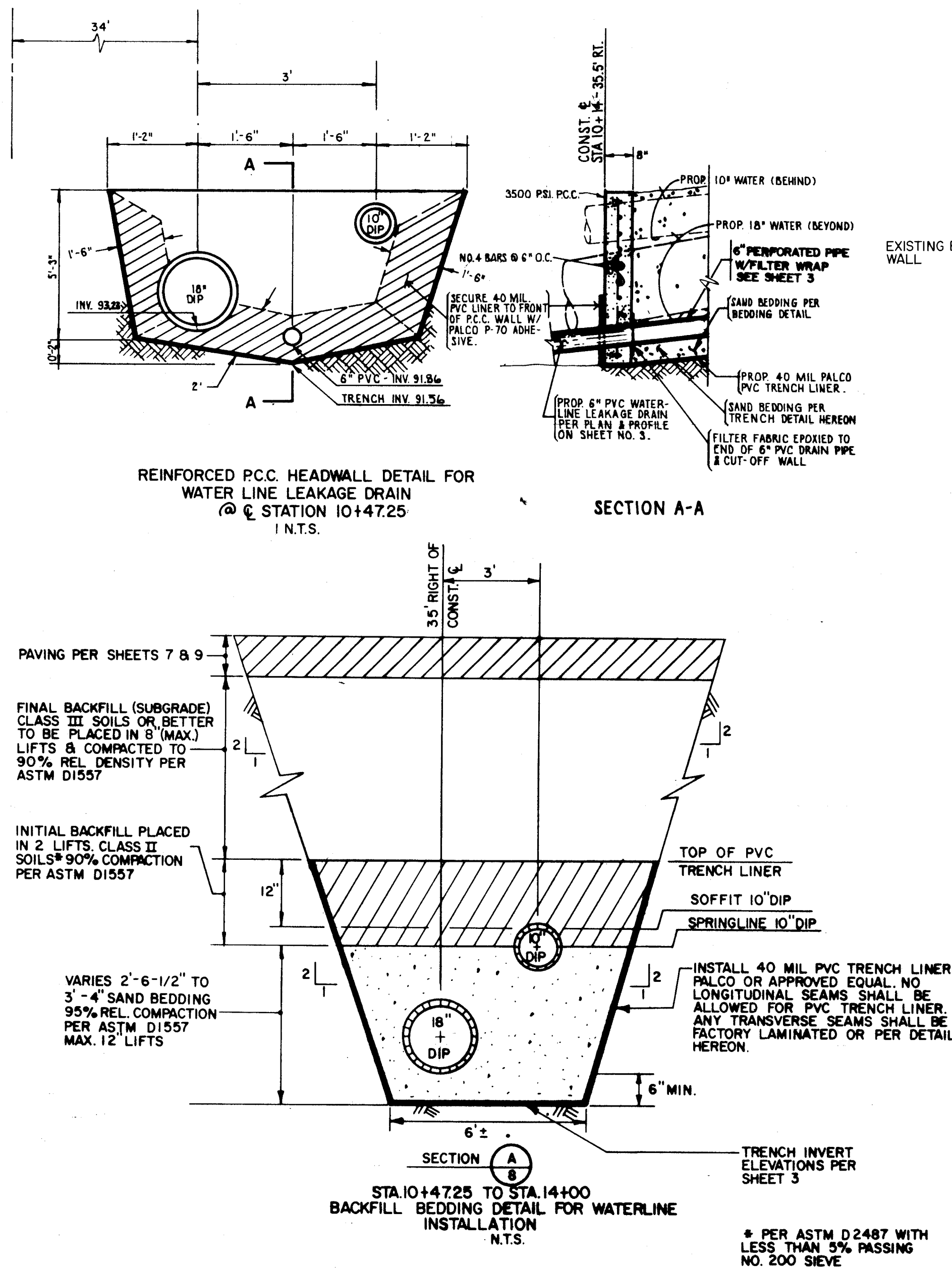
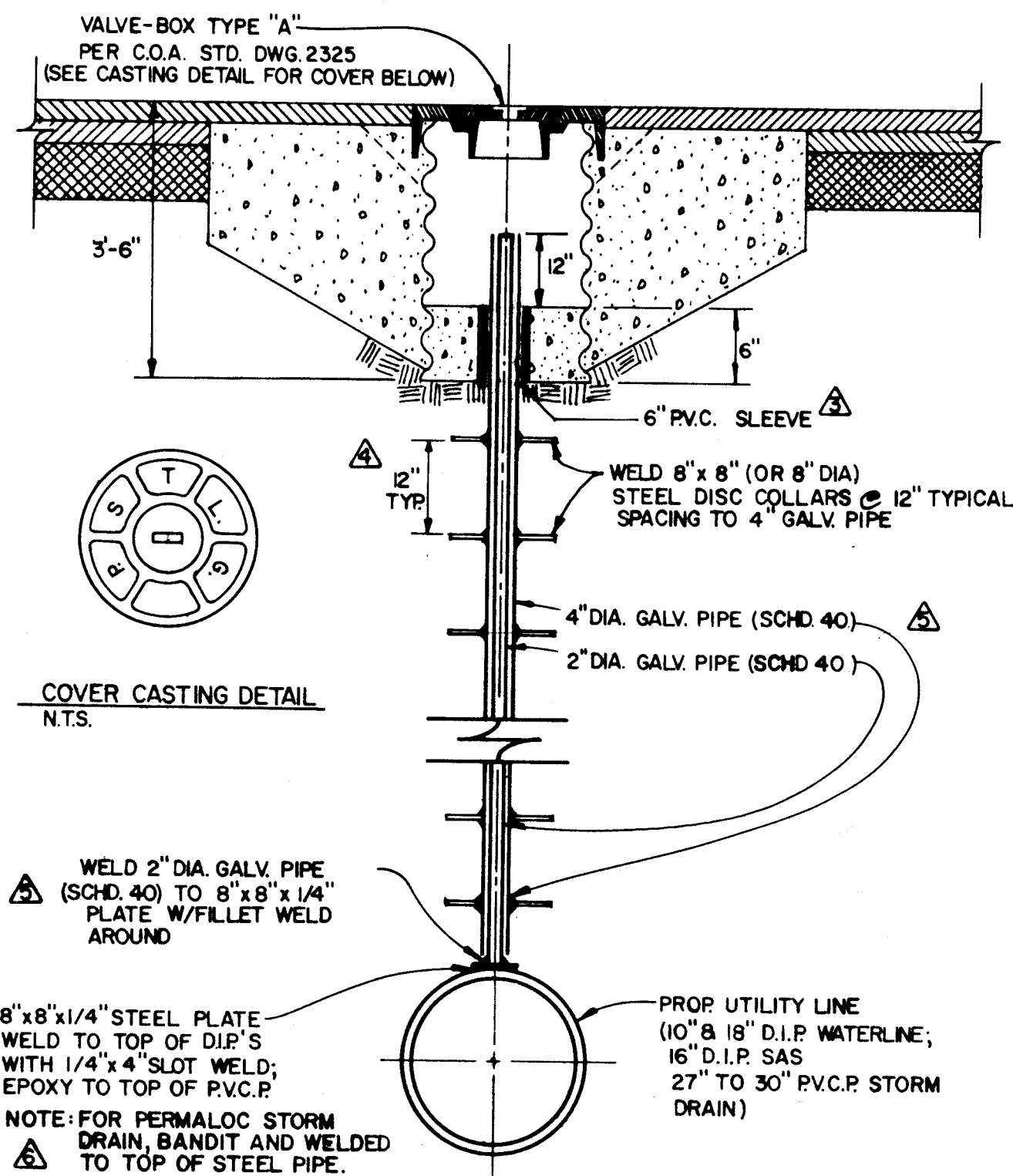
DRAWING NO. 3344 MAP NO. E-21 SHEET 7 OF 16

RECORD DRAWING

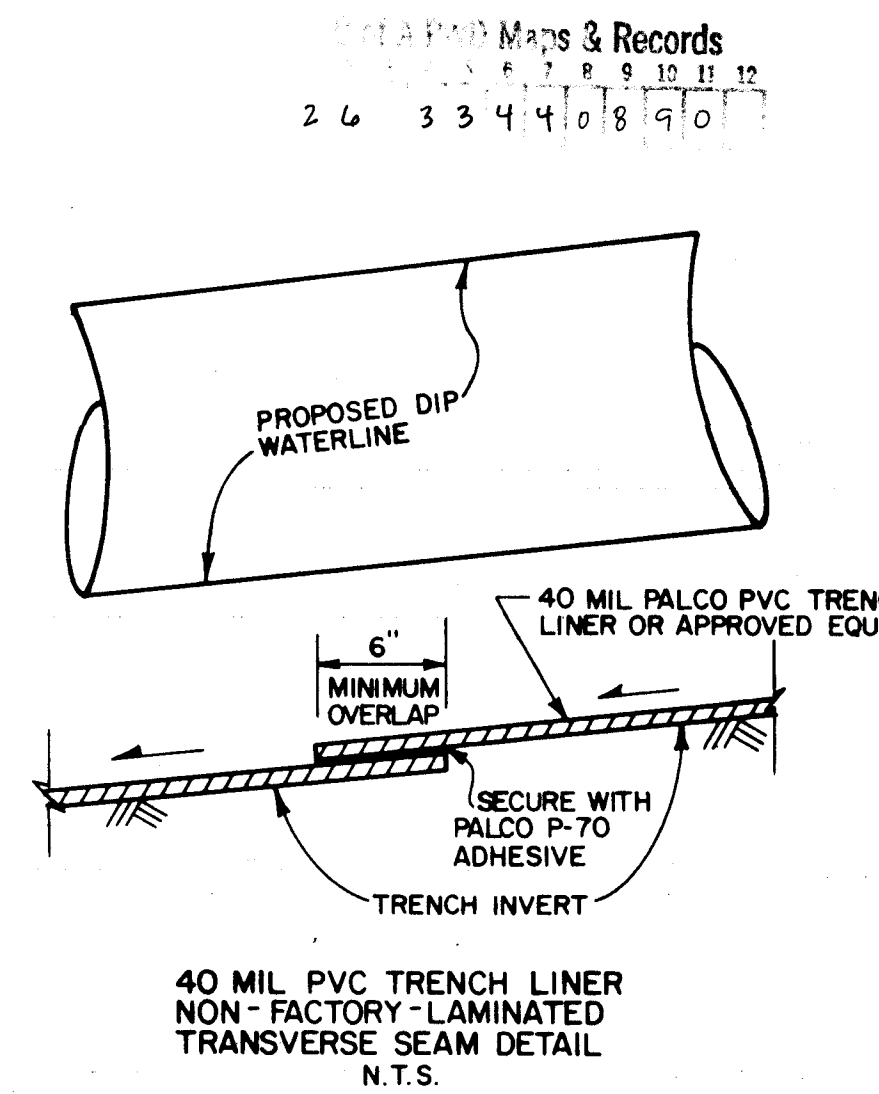
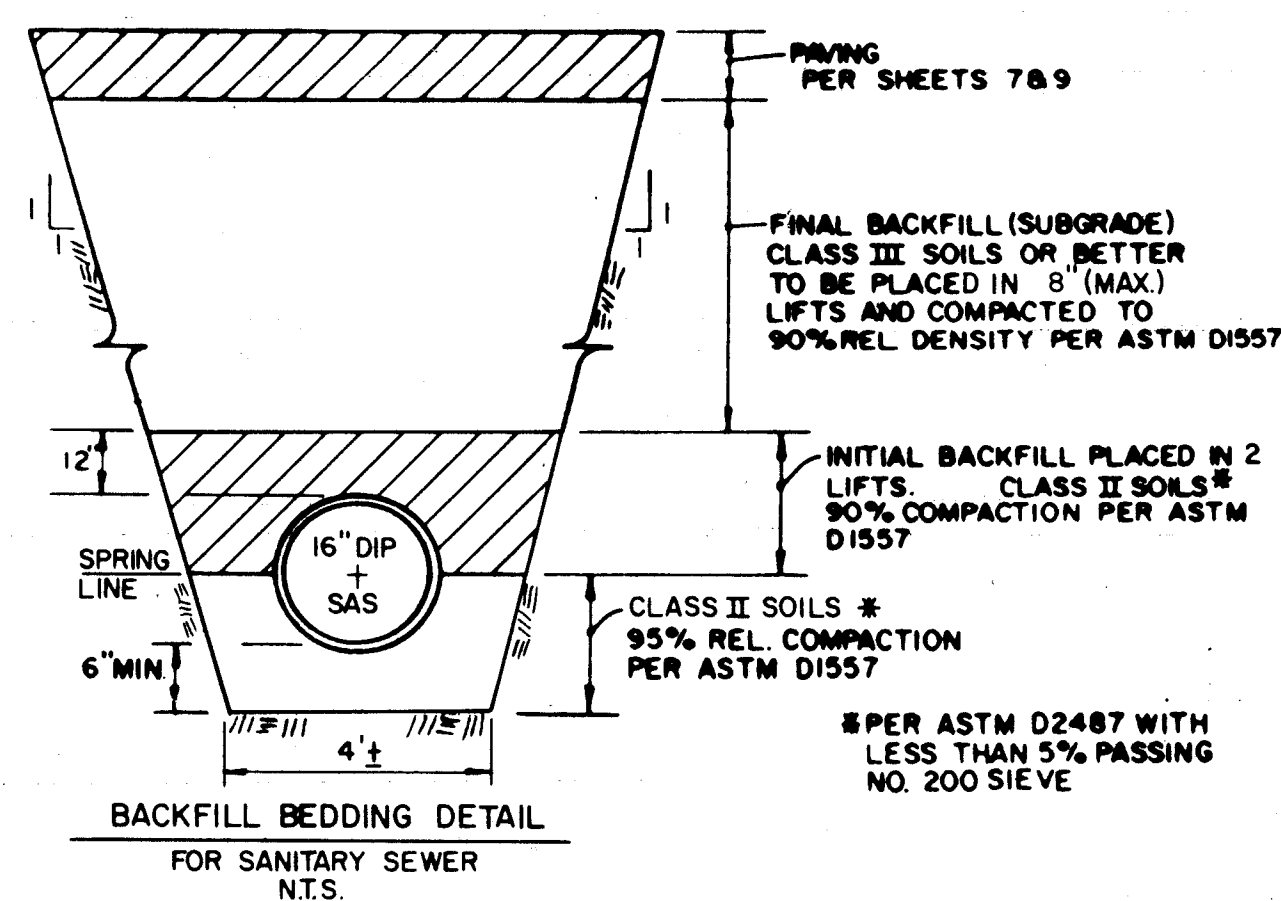
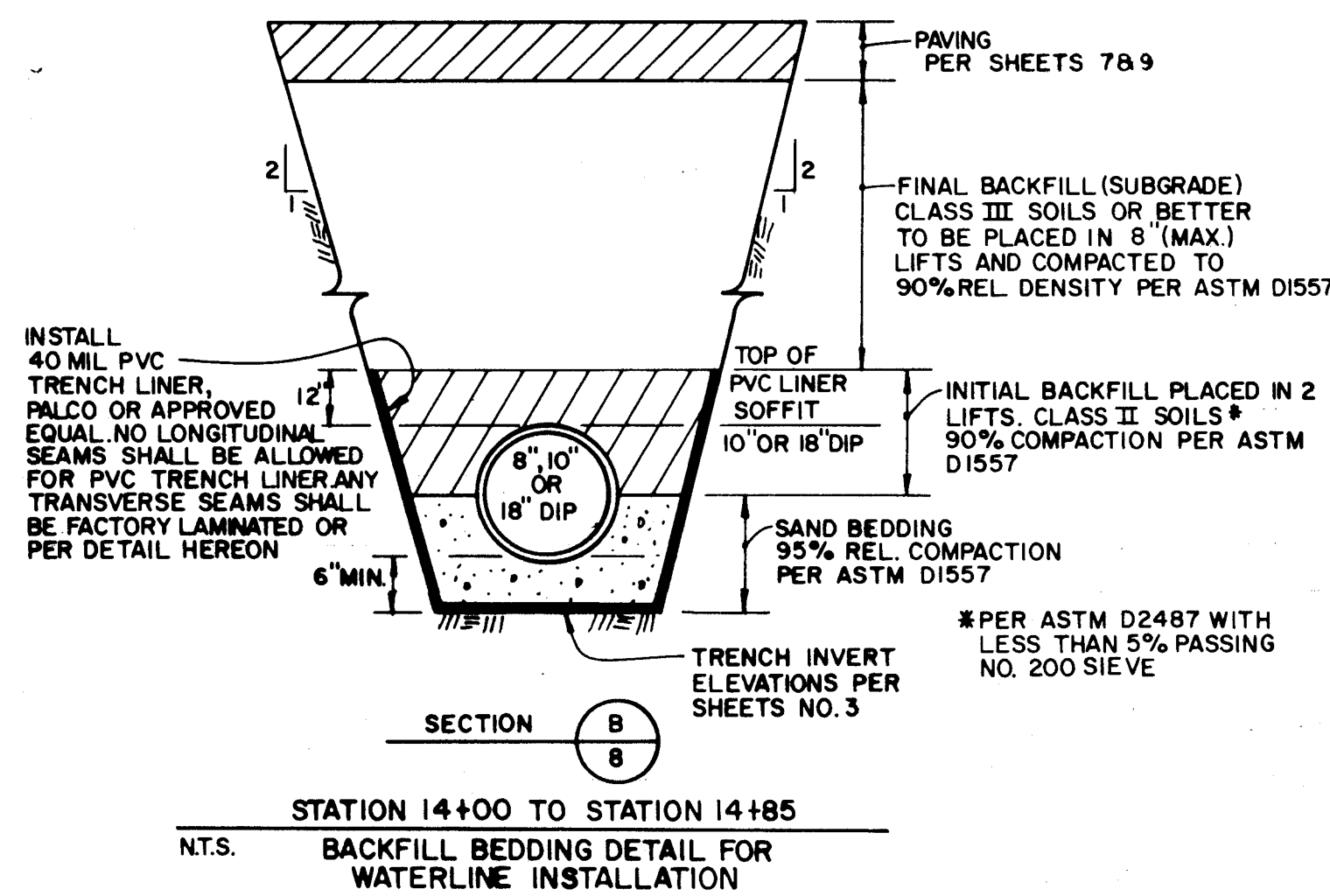
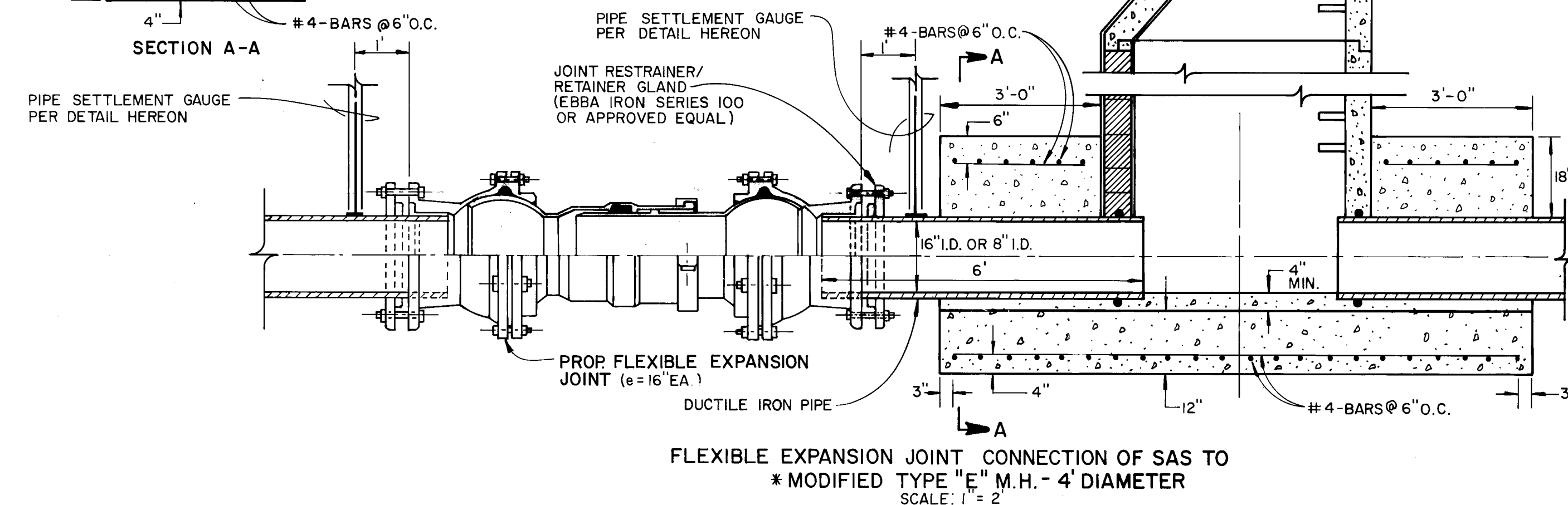
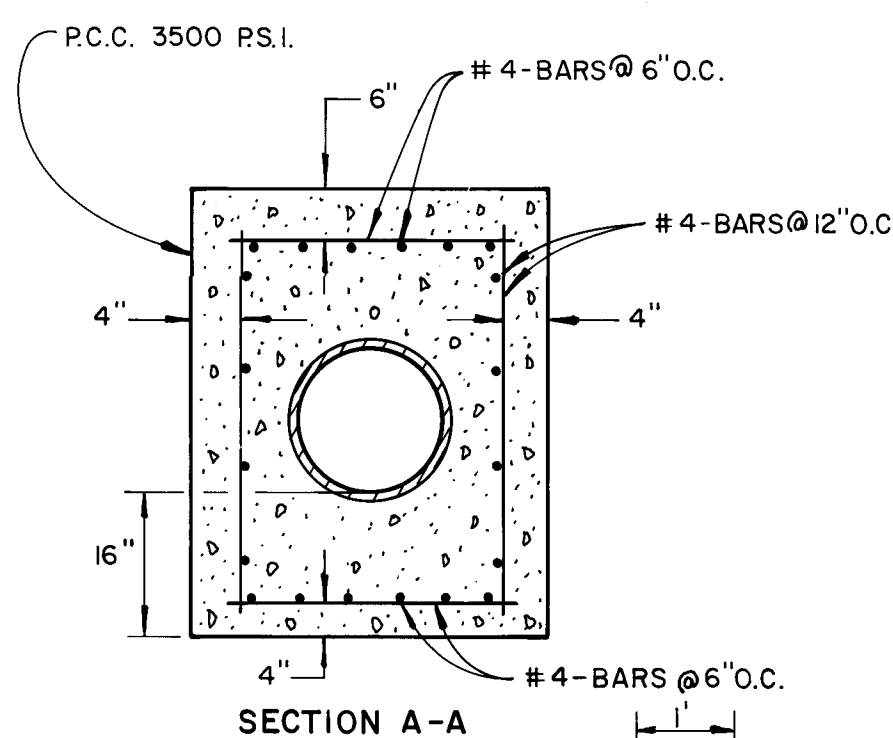
Date: 9-26-89



NOTE: CONTRACTOR SHALL FIELD VERIFY DEPTHS AND LOCATION OF ALL U.E., H.P.G., U.T.V. AND U.T. CONDUITS PRIOR TO ANY TRENCHING.

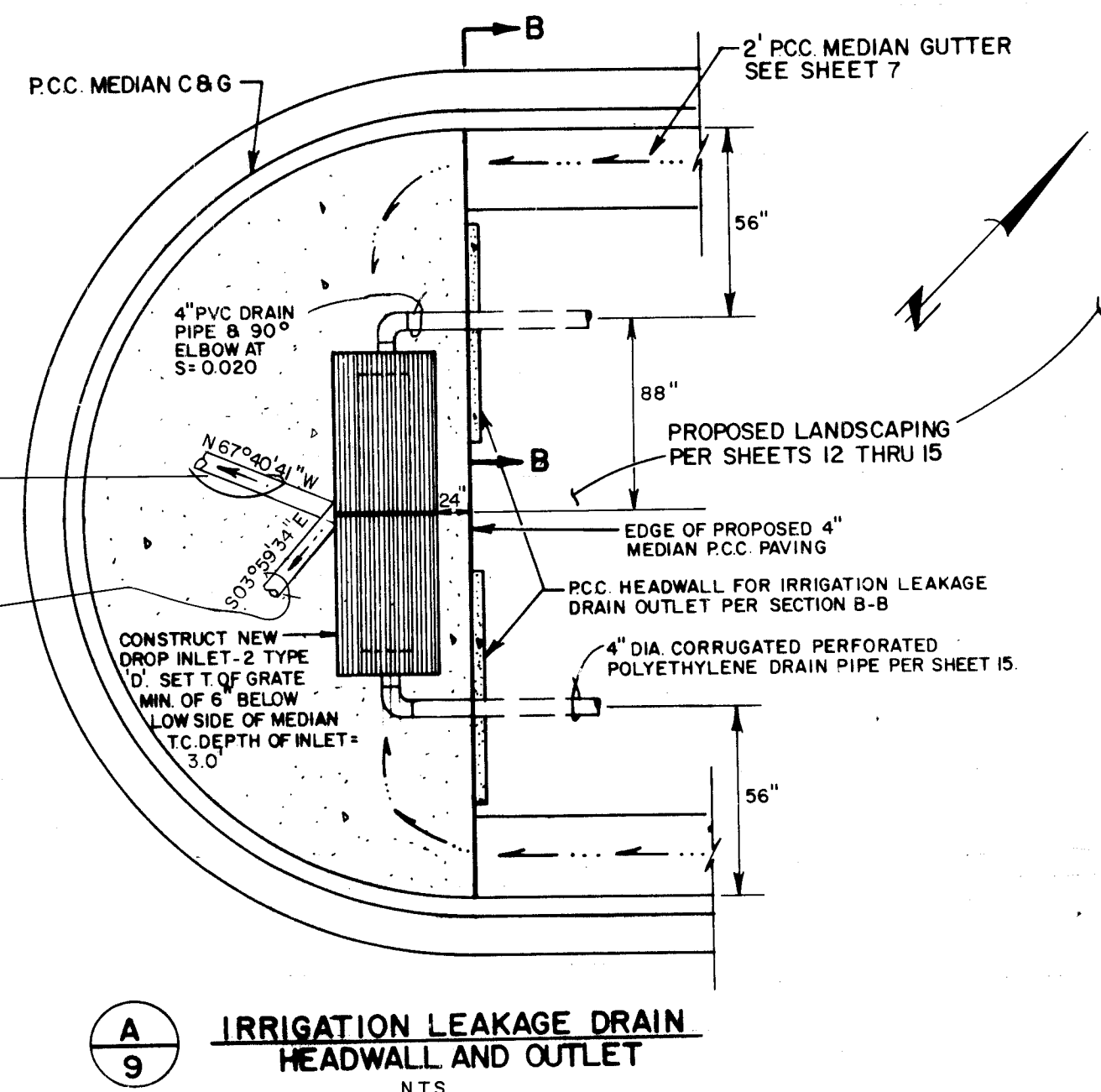
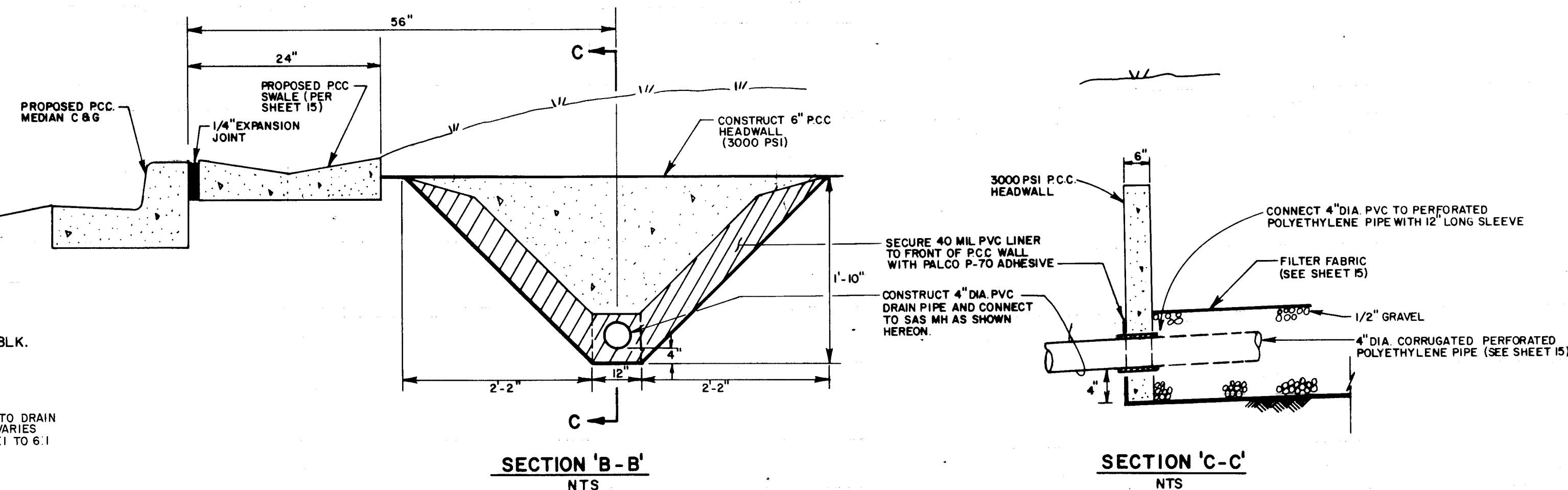
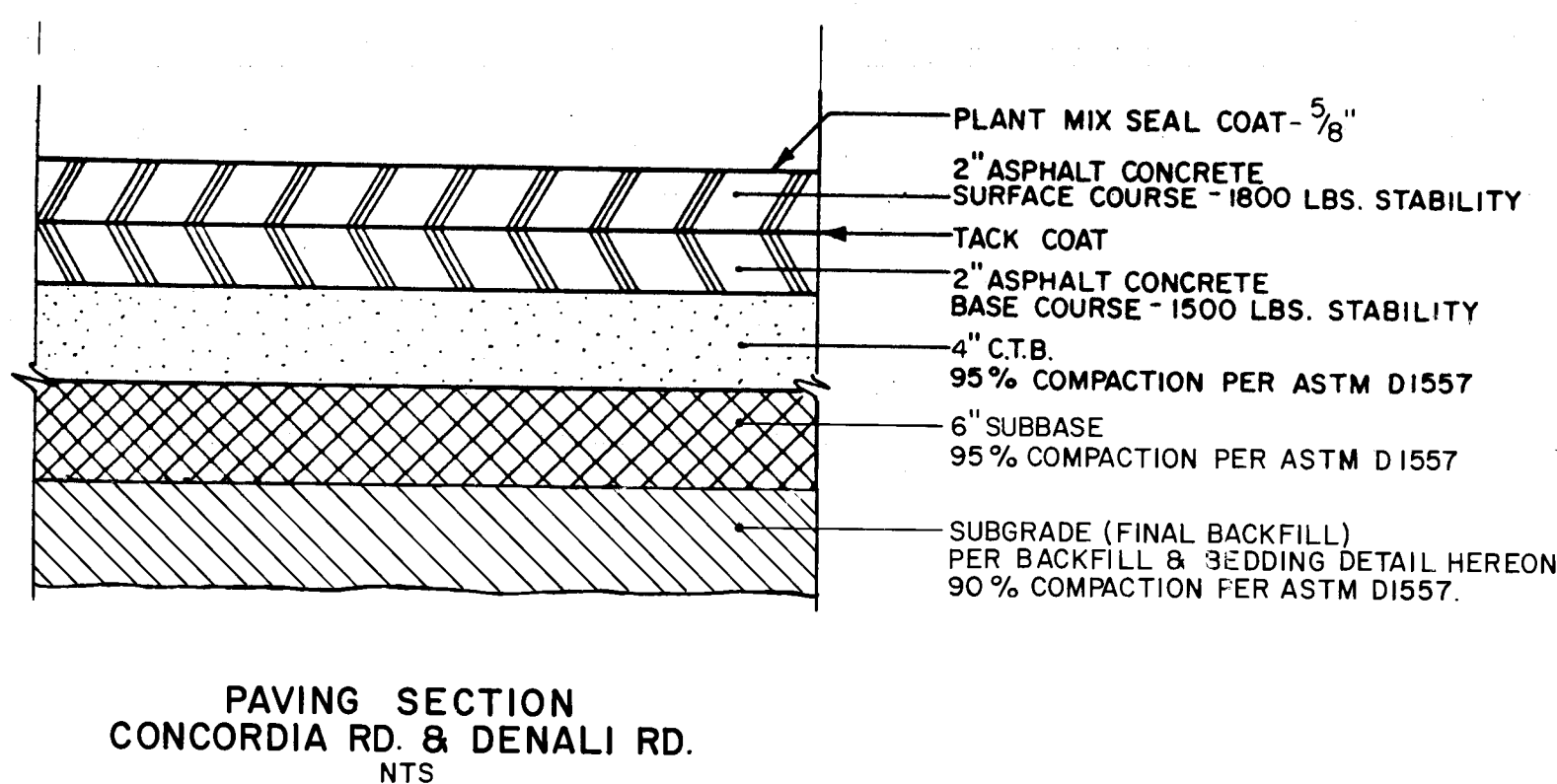
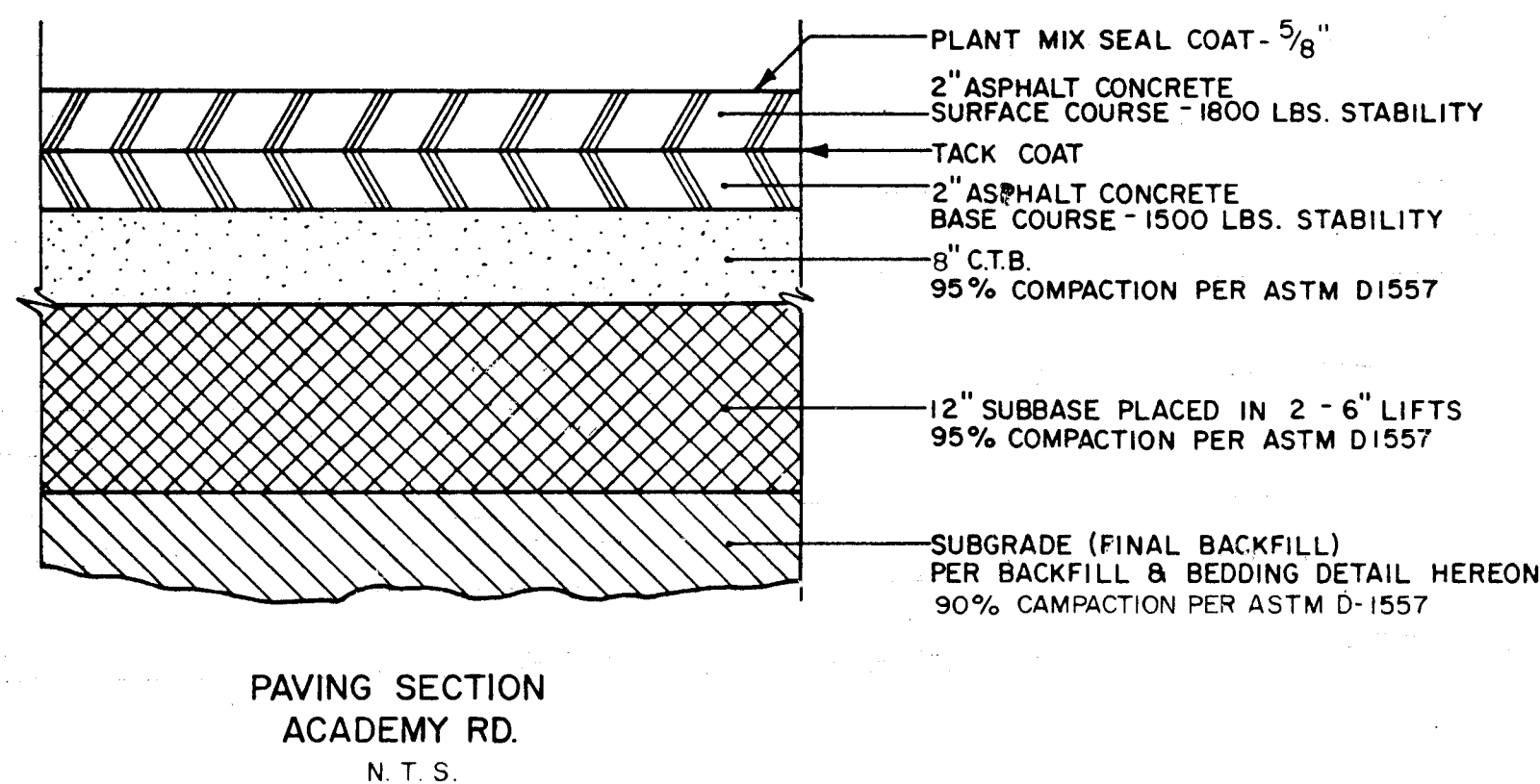
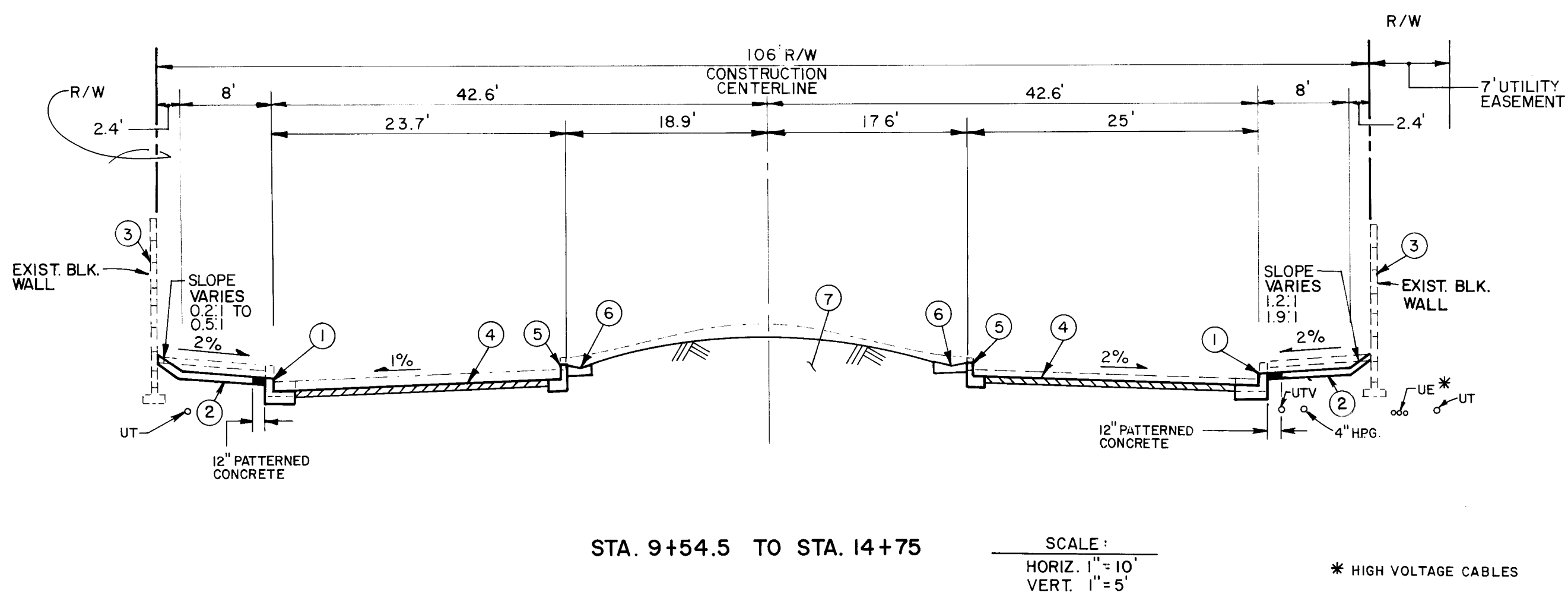
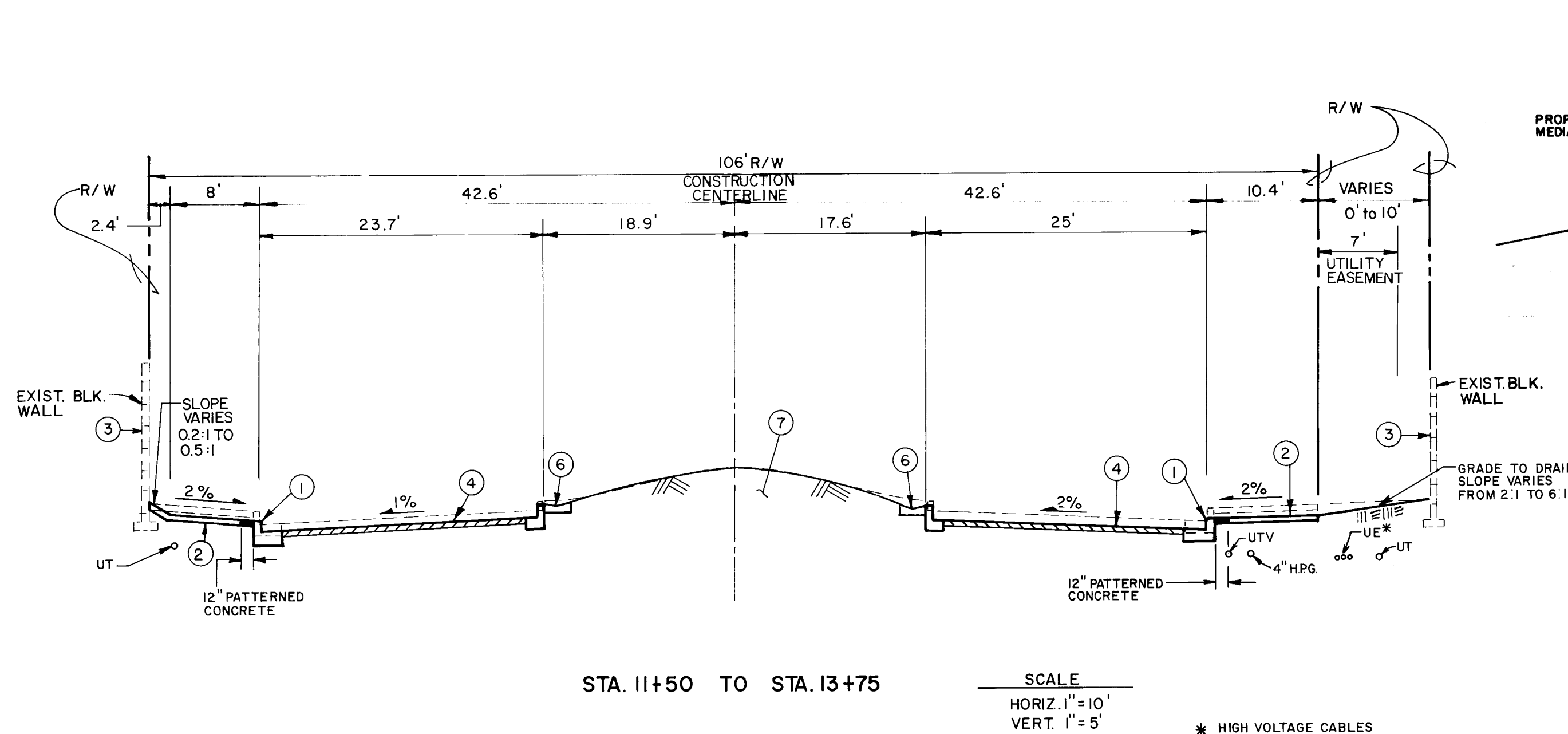


Note: Unless Otherwise Noted, All Elevations
Shown On These Plans Should Be Adjusted
By A Value Of Negative 0.035.



CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: ACADEMY RD. WATER, SAS & DRAINAGE REHABILITATION CONCORDIA RD TO DENALI RD. SECTIONS AND DETAILS-WATER & SAS.					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair		11/10/88			
Trans. Dev		11/10/88			
Utility Dev		11/10/88			
Hypocology		11/10/88			
DRAWING NO. 3344	MAP NO. E-21		SHEET 8		OF 16

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	Albuquerque Underground	AGS 8-221 BLK. 5702.26		NO.	DATE		DESIGNED BY Ray Pang DRAWN BY A. Balda CHECKED BY Ray Pang
WORK DATE	11/10/88	Bench mark station is marked on 3 1/4" aluminum cap and is located at the north top of curb of Academy Rd. N.E. approximately 375' feet west of Rubank Blvd.		02-92	01/19/87		
FIELD DATE	11/10/88						
DRAWING DATE	11/10/88						
CORRECTED BY							
RECORDED BY							
DATE							



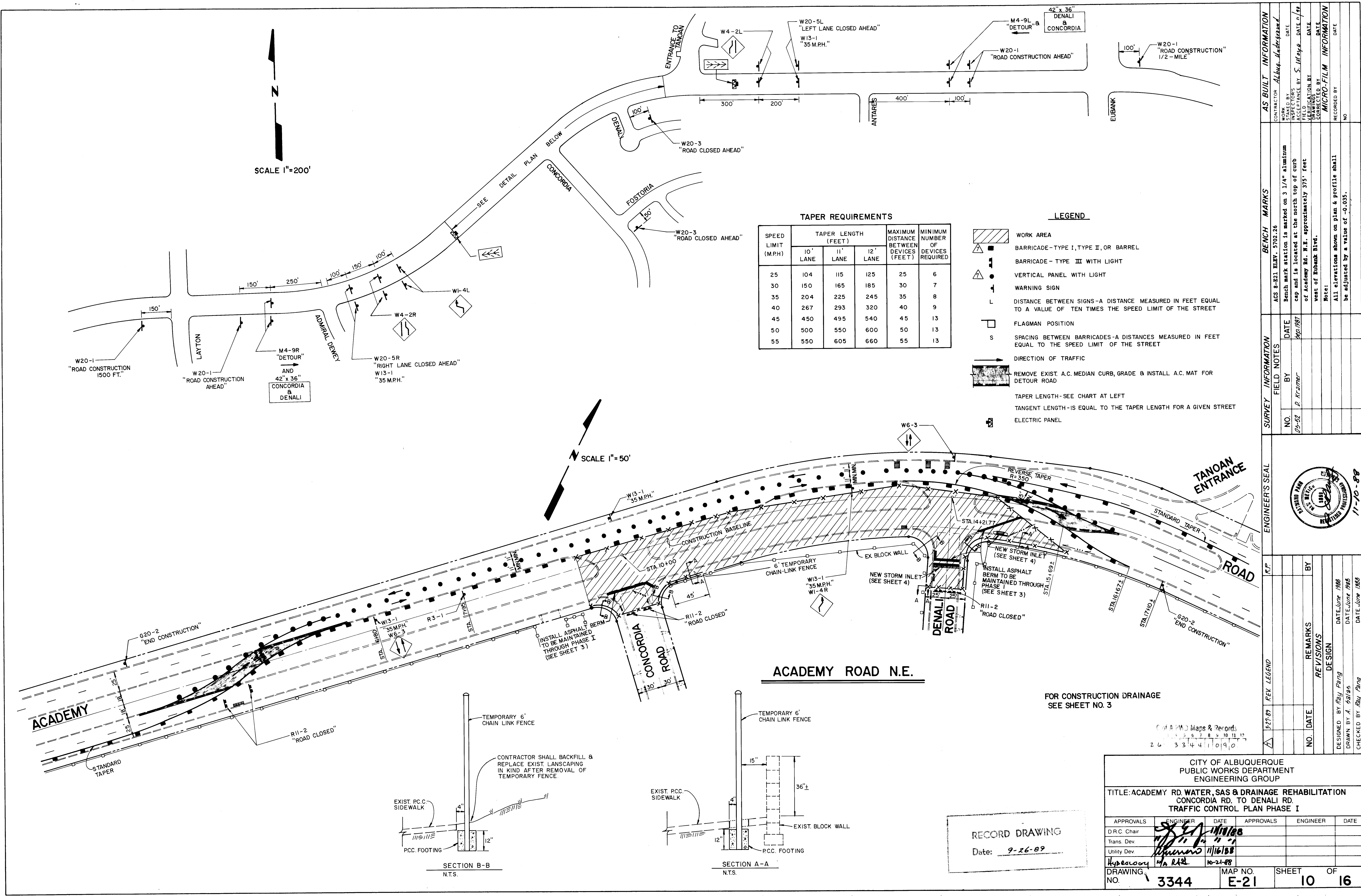
- PAVING CONSTRUCTION NOTES
- 1 REMOVE AND REPLACE STANDARD PCC CURB AND GUTTER PER STANDARD DRAWING NO. 2415 AS SHOWN ON PLAN AND PROFILE HEREON.
 - 2 REMOVE AND REPLACE 4" PCC SIDEWALK WITH 12" STRIP OF PATTERNED CONCRETE TO MATCH EXISTING COLOR AND PATTERN.
 - 3 PROTECT EXISTING BLOCK WALL IN PLACE.
 - 4 REMOVE AND REPLACE ARTERIAL PAVING PER PAVING SECTION ON SHEET 9.
 - 5 REMOVE EXISTING EXTRUDED A.C. CURB AND CONSTRUCT NEW PCC MEDIAN CURB AND GUTTER PER STANDARD DRAWING NO. 2415.
 - 6 INSTALL 24" WIDE PCC MEDIAN SWALE PER DETAIL ON SHEET NO. 15.
 - 7 INSTALL IRRIGATION SYSTEM AND LANDSCAPING PER SHEET NO.'S 12 THROUGH 15.

Note: Unless Otherwise Noted, All Elevations Shown On These Plans Should Be Adjusted By A Value Of Negative 0.035.

NOTE: CONTRACTOR SHALL FIELD VERIFY DEPTHS AND LOCATION OF ALL U.E., H.P.G., U.T.V. AND U.T. CONDUITS PRIOR TO ANY TRENCHING.

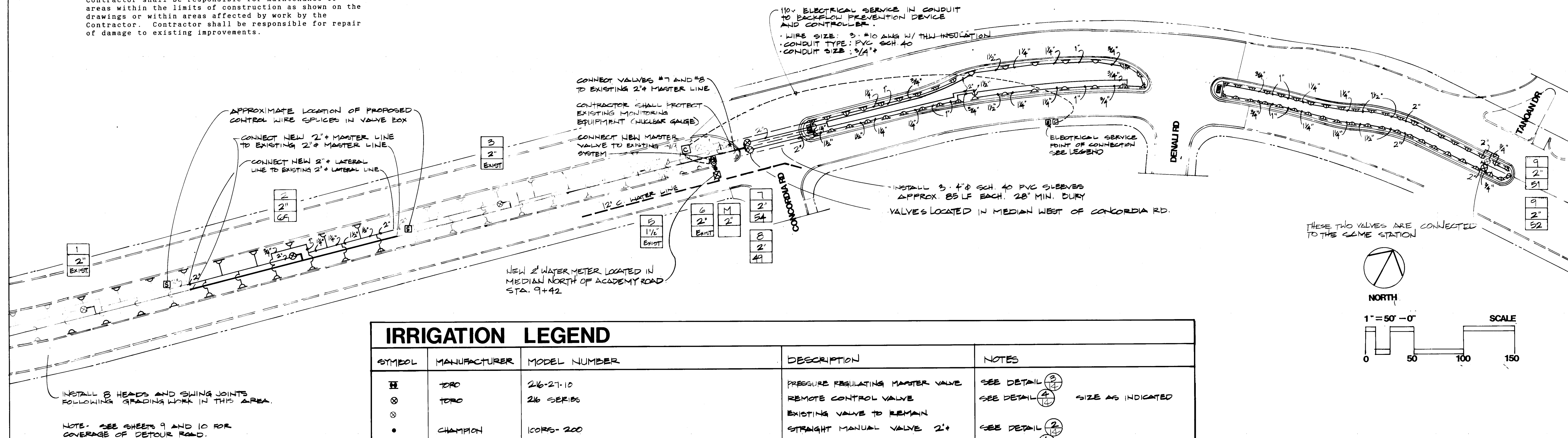
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: ACADEMY RD. WATER, SAS & DRAINAGE REHABILITATION CONCORDIA RD. TO DENALI RD. SECTIONS & DETAILS - PAVING					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	7/14/98			
Trans. Dev.					
Utility Dev.	<i>[Signature]</i>	7/16/98			
Hydrology	<i>[Signature]</i>	10-21-98			
DRAWING NO.	3344	MAP NO.	E-21	SHEET	9 OF 16

AS BUILT INFORMATION			BENCH MARKS			SURVEY INFORMATION			ENGINEER'S SEAL		
CONTRACTOR	Albuquerque Underground	DATE	ACS 8-211 BURY, 5702.26	DATE	4/2/98	NO.	BY	DATE			
WORK BY		DATE	Bench mark station is marked on 3 1/4" aluminum	DATE	4/2/98	NO.	BY	DATE			
INSPECTOR'S		DATE	cap and is located at the north top of curb	DATE	4/2/98	NO.	BY	DATE			
ACCEPTANCE BY	S. May 4	DATE	of Academy Rd. W.B. approximately 375' feet	DATE	4/2/98	NO.	BY	DATE			
VERIFICATION BY		DATE	west of Eubank Blvd.	DATE		NO.	BY	DATE			
DRAWINGS		DATE	Note:	DATE		NO.	BY	DATE			
REVISIONS		DATE	All elevations shown on plan & profile shall	DATE		NO.	BY	DATE			
MICRO-FILM INFORMATION		DATE	be adjusted by a value of -0.035.	DATE		NO.	BY	DATE			



IRRIGATION NOTES

- * Contractor shall coordinate tap of 12 c.i. water line and installation of 2" water meter west of Concordia Rd. with the City of Albuquerque. The City of Albuquerque is responsible for all water service expansion charges and meter set charges.
- * Contractor shall install electrical disconnect on pedestal adjacent to existing electrical service pedestal west of Denali Rd. and run 110 v. service in conduit to irrigation controller and backflow prevention device.
- * Contractor shall stake all controller, valve, backflow prevention device and head locations for approval of Engineer prior to excavation.
- * Contractor shall install one electronic marker disc at each end of PVC sleeve group at Concordia Rd.
- * Contractor is to reconnect all valves to the controller so lawn areas are watered in sequential order from Denali Rd. west to Ventura Rd.
- * Contractor is responsible to maintain continuous water service to the existing main and master irrigation lines throughout the duration of the project. Contractor shall be responsible for maintenance of areas within the limits of construction as shown on the drawings or within areas affected by work by the Contractor. Contractor shall be responsible for repair of damage to existing improvements.



IRRIGATION LEGEND				
SYMBOL	MANUFACTURER	MODEL NUMBER	DESCRIPTION	NOTES
H	TORO	246-27-10	PRESSURE REGULATING MASTER VALVE	SEE DETAIL (2)
X	TORO	246 SERIES	REMOTE CONTROL VALVE	SEE DETAIL (4) SIZE AS INDICATED
X			EXISTING VALVE TO REMAIN	
•	CHAMPION	1CORS-200	STRAIGHT MANUAL VALVE 2"	SEE DETAIL (2)
O	FEDCO	BZSY 1½"	½" REDUCED PRESSURE BACKFLOW PREVENTER	SEE DETAIL (1)
C	RAIN BIRD	CK-12 AND CIC-B W/ RELAY	COMPUTER CONTROLLER IN CONC. VAULT	RELOCATE CONC. CONTROLLER VAULT AND CONTROLLER FROM EXISTING LOCATION NEAR DENALI RD TO LOCATION AS SHOWN ON THIS SHEET.
X			2' WATER METER	
A A	TORO	S600C-180-G.O., S600C-FC-S.O	GEAR DRIVEN ROTARY SPRINKLER	36" TYPICAL TRIANGULAR SPACING SEE (7)
D D	TORO	570C-4P-15-H-R, 570C-4P-15-Q-FC		15" TYPICAL SPACING SEE (7) USE ADJUSTABLE ARC NOZZLE AS REQUIRED
- - -			EXISTING HEAD TO REMAIN	
- - -			EXISTING LATERAL LINE TO REMAIN	
- - -			EXISTING MASTER LINE TO REMAIN	
- - -			MASTER LINE	24" BURY
- - -			LATERAL LINE SIZE AS INDICATED	18" BURY
- - -			MAIN LINE	28" BURY LOCATED BETWEEN WATER METER AND REDUCED PRESSURE BACKFLOW PREVENTER
[]			EXISTING ELECTRICAL SERVICE PIEDestal	
[]			110 ELECTRIC SERVICE DISCONNECT ON PIEDestal	RELOCATE EXISTING ELEC. DISCONNECT FROM CONTROLLER VAULT TO NEW LOCATION AT EXISTING ELECTRICAL SERVICE PIEDestal
[]	DROOKS	Z200	WIRE SPLICE IN VALVE BOX	INSTALL WIRE SPLICES WITHIN VALVE BOX. INSTALL BOX AS SHOWN IN DETAIL (2)

THESE TWO VALVES ARE CONNECTED TO THE SAME STATION

NORTH

1" = 50' - 0"

SCALE

0 50 100 150

RECORD DRAWING
Date: 9-26-89

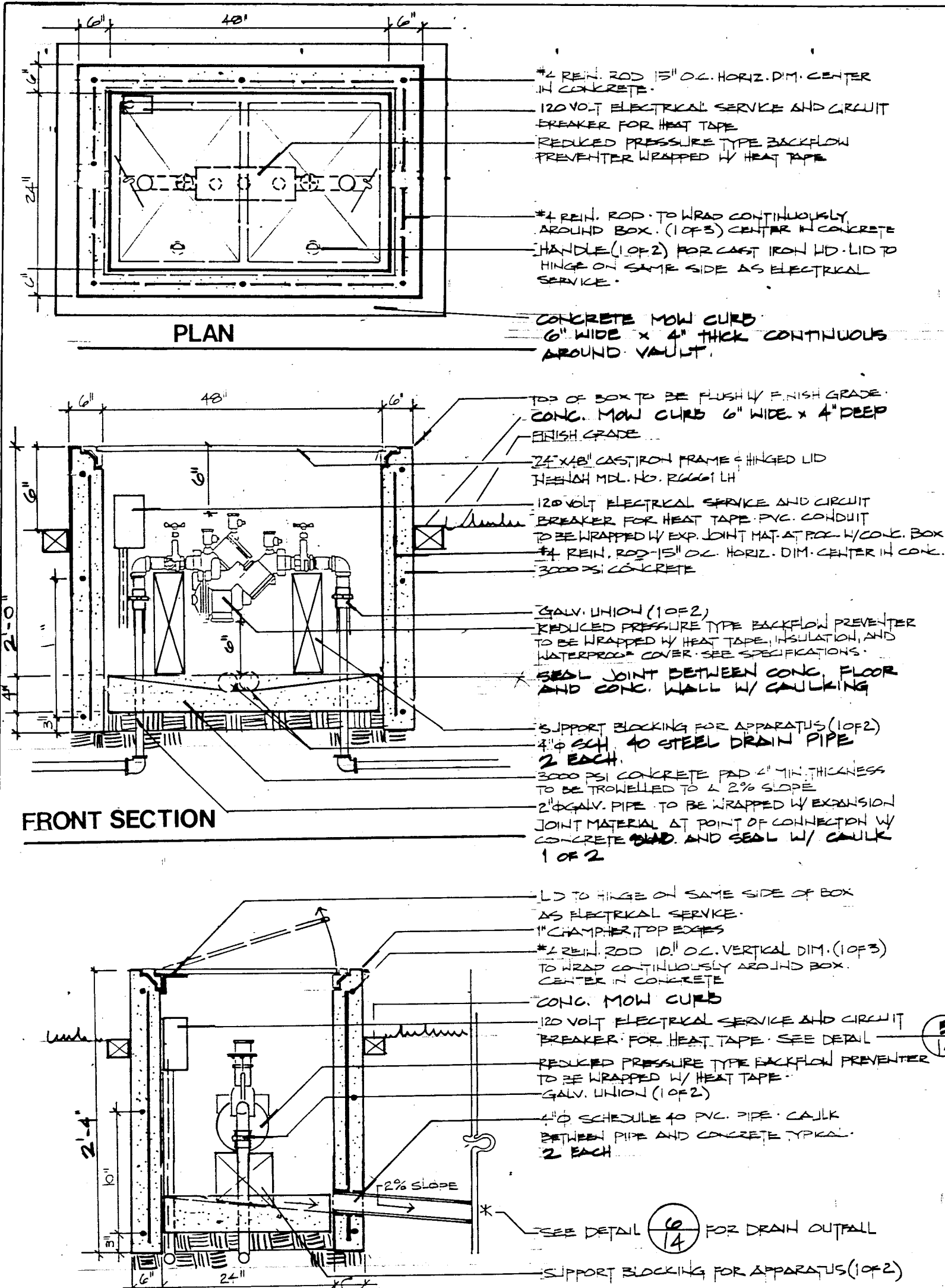
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: ACADEMY RD. WATER, SAS & DRAINAGE REHABILITATION CONCORDIA RD. TO DENALI RD. IRRIGATION IMPROVEMENTS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	11/16/88	Hydrology	<i>[Signature]</i>	10-21-88
Trans. Dev.	<i>[Signature]</i>	11/16/88			
Utility Dev.	<i>[Signature]</i>	10-17-88			
<i>[Signature]</i>	<i>[Signature]</i>				
DRAWING NO.	MAP NO.		SHEET		OF
3344	E-21		13		16



Campbell Okuma Perkins Associates, Inc.
Landscape Architecture and Site Planning

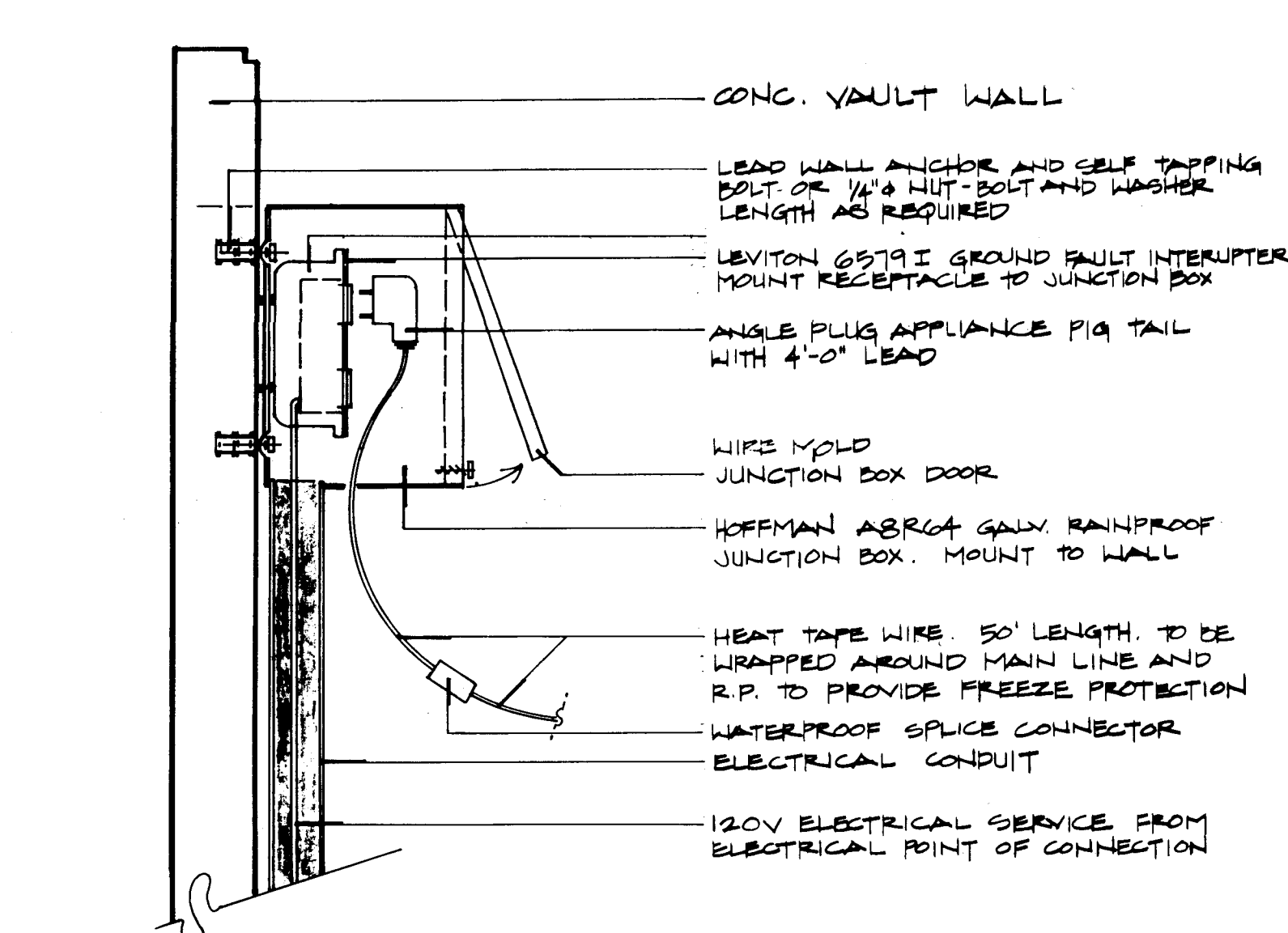
418 Central E.E.
Albuquerque, NM 87108
(505) 212-9800

1329 Penhouse No. 2
Santa Fe, NM 87501
phone (505)-838-0288



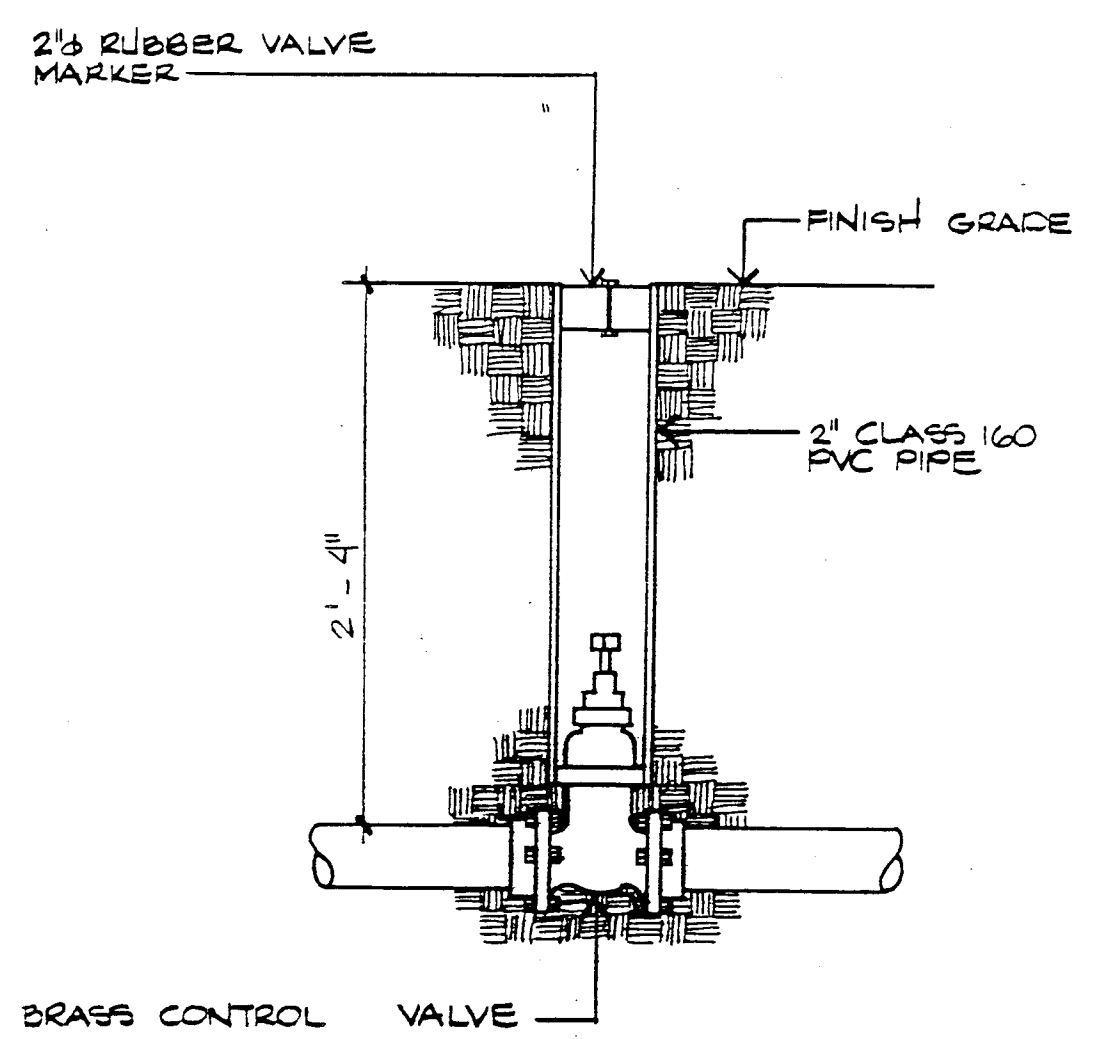
SECTION

1 BACKFLOW PREVENTION DEVICE-BELOW GROUND
NTS.



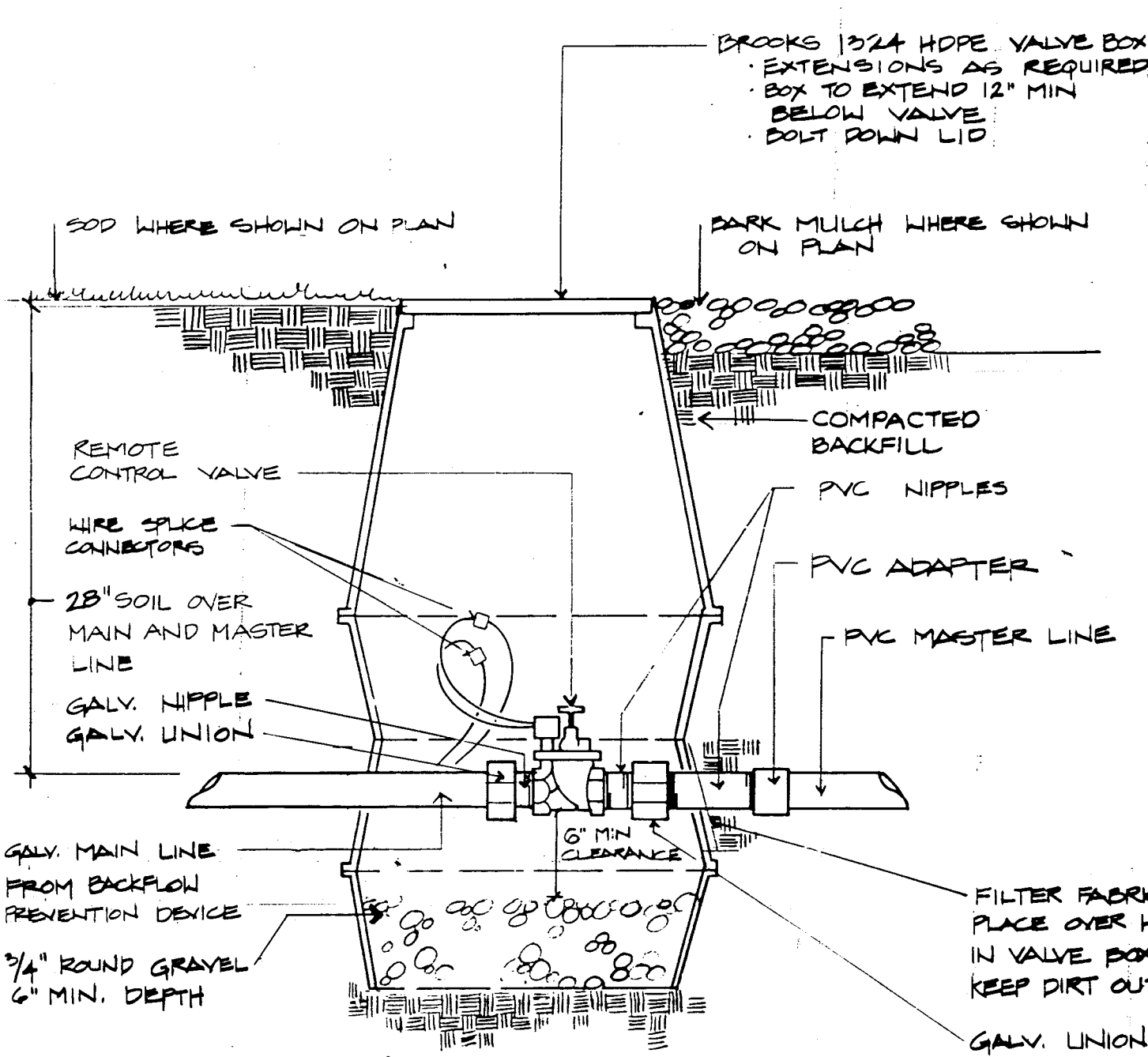
SECTION

5 ELECTRICAL SERVICE FOR HEAT TAPE
NTS.

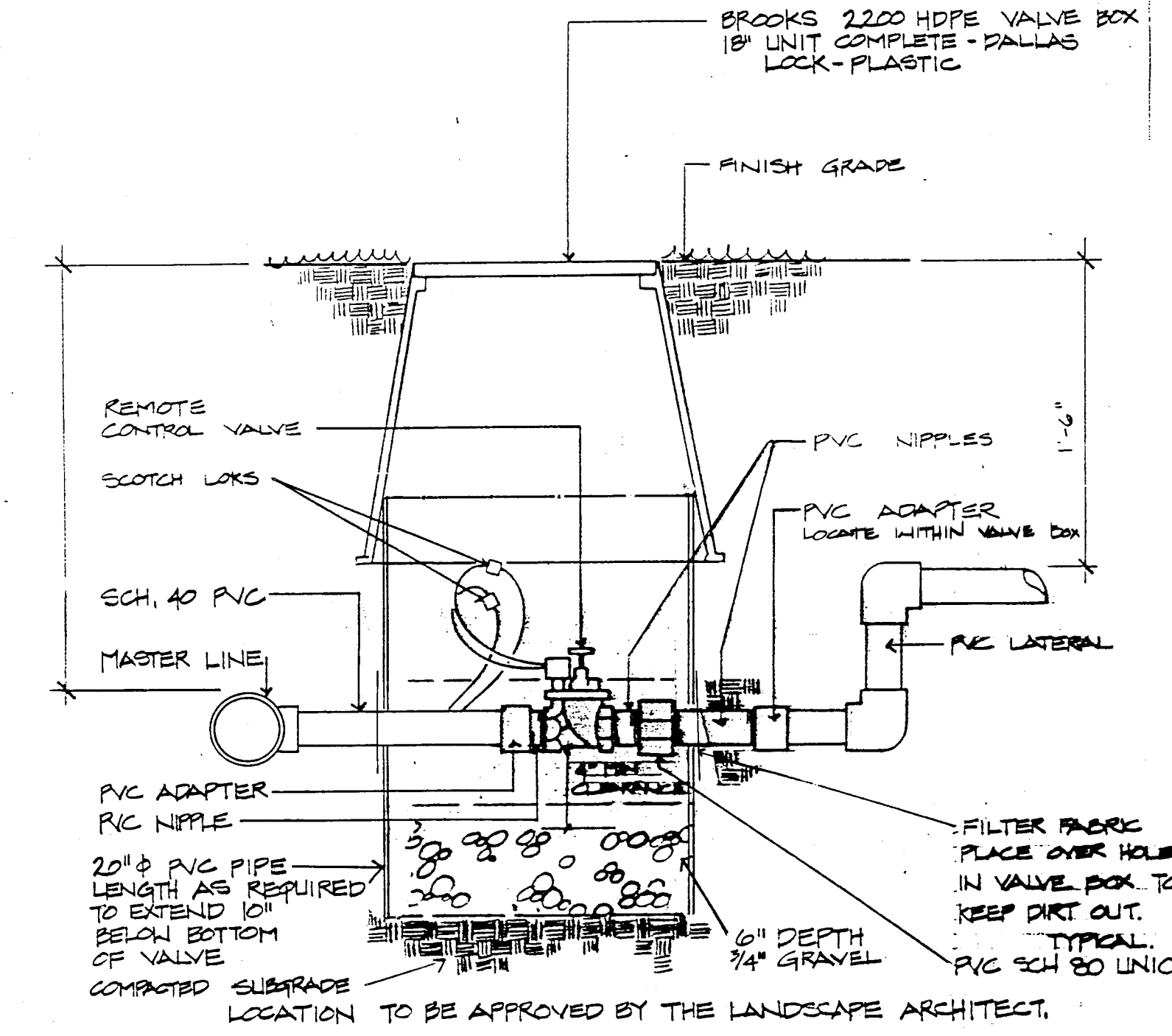


NOTE:
PROVIDE (2) 54" CONTROL VALVE KEYS.
LOCATION TO BE APPROVED BY THE LANDSCAPE ARCHITECT.

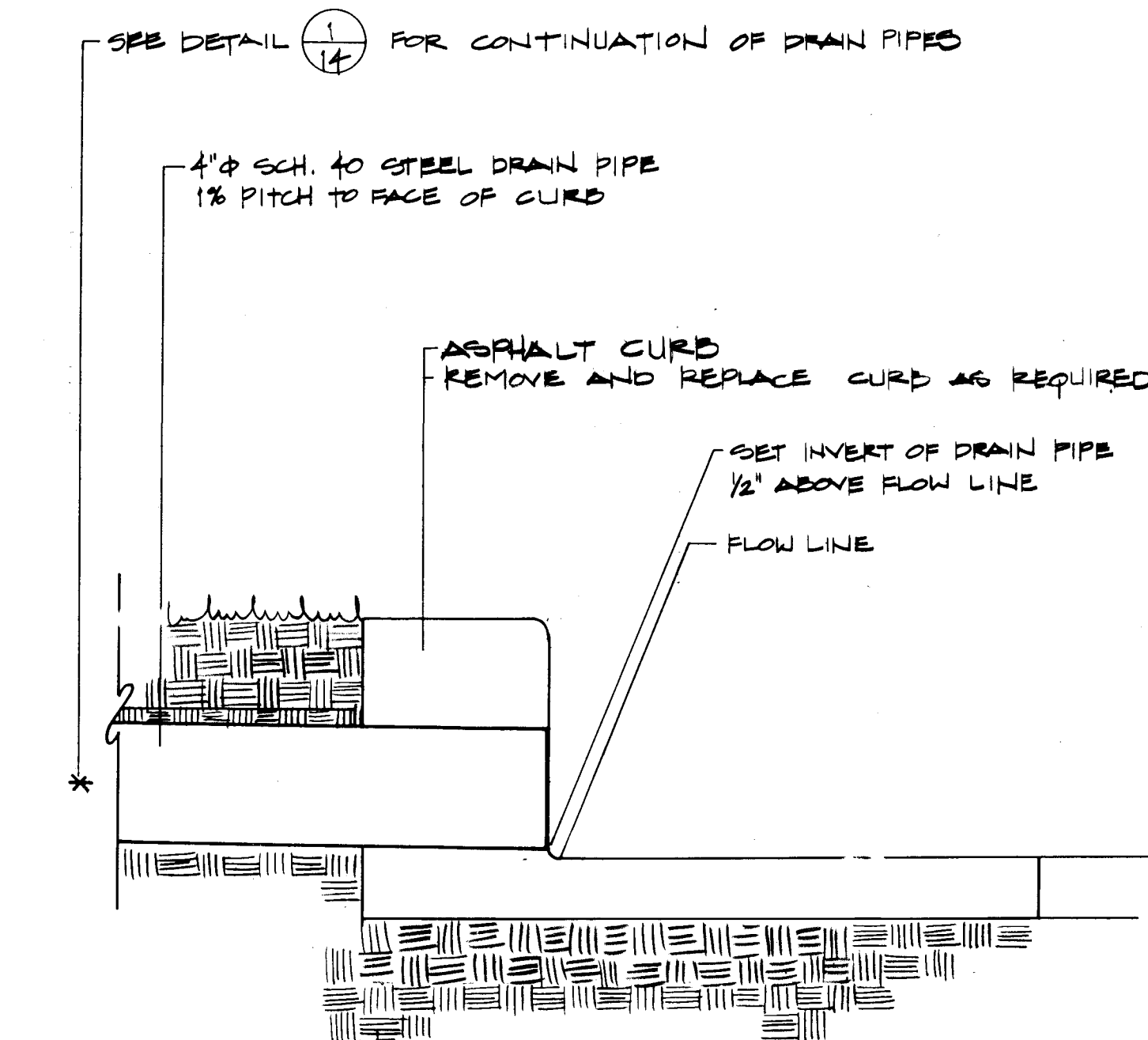
2 CONTROL VALVE
NTS.



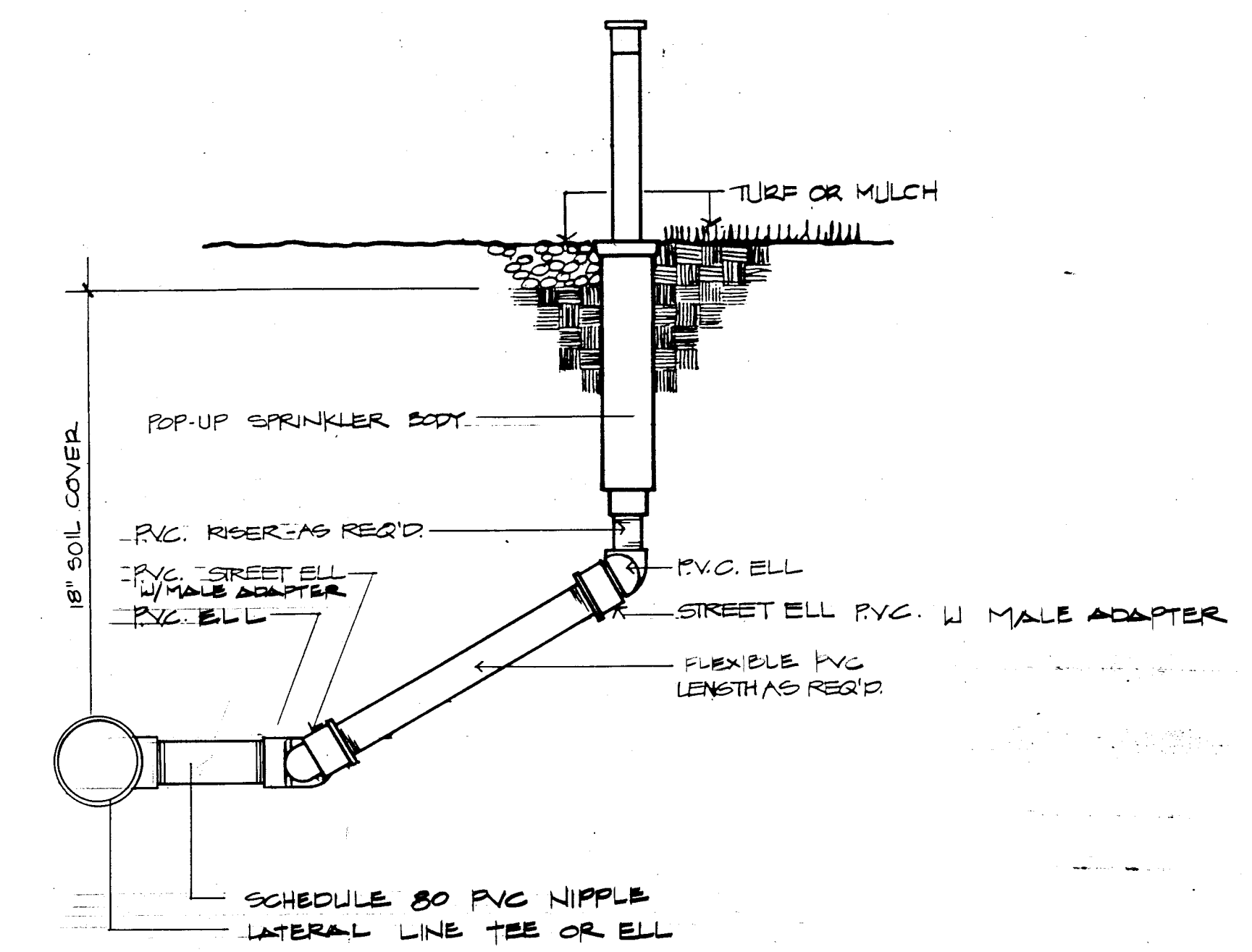
3 MASTER VALVE
NTS.



4 REMOTE CONTROL VALVE
NTS.



6 BACKFLOW PREVENTION DEVICE DRAIN OUTFALL
NTS.



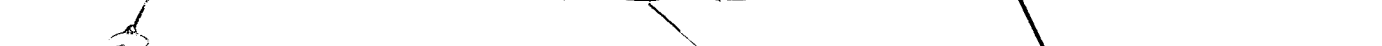
7 POP-UP SPRAY SPRINKLER
NTS.

RECORD DRAWING
Date: 9-26-89

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP					
TITLE: ACADEMY RD. WATER, SAS & DRAINAGE REHABILITATION CONCORDIA RD. TO DENALI RD. IRRIGATION DETAILS					
APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
D.R.C. Chair	<i>[Signature]</i>	10/1/89	Trans. Dev	<i>[Signature]</i>	10-21-89
Utility Dev	<i>[Signature]</i>	11/14/88			
Drawings	<i>[Signature]</i>	10/17/88			
DRAWING NO.	3344	MAP NO.	E-21	SHEET	14 OF 16

AS BUILT INFORMATION					
CONTRACTOR	Albuquerque Underground	DATE			
INSPECTOR'S	DATE	FIELD	DATE	DATE	DATE
VERIFICATION	DATE	BY	DATE	DATE	DATE
CORRECTED	DATE	BY	DATE	DATE	DATE
MICRO-FILM INFORMATION					
RECORDED	DATE				
NO.					

NOTES PER PLANT LIST



10

98

Campbell Okuma Perkins Associates

Landscape Architecture and Site Plan

418 Central S.E. 1308 Peach

Albuquerque, NM 87102
(505) 242-9928

1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 26

ENGINEERING GROUP

PLANTING IMPROVEMENTS

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
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DBQ Chair	4/2/2018	1/6	0184
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Trans. Dev.					
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[illegible]

Unity Dev.	122	11/13/00		
Barker & Barr	211	11/13/00		

Parks & Rec	Michael Stina	10/11/00		
DRAWING		MAP NO.	SHEET	OF

DRAWING NO. **3344** MAP NO. **E-21** SHEET **15** OF **16**

NO.	3344	E-21	13	16
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