

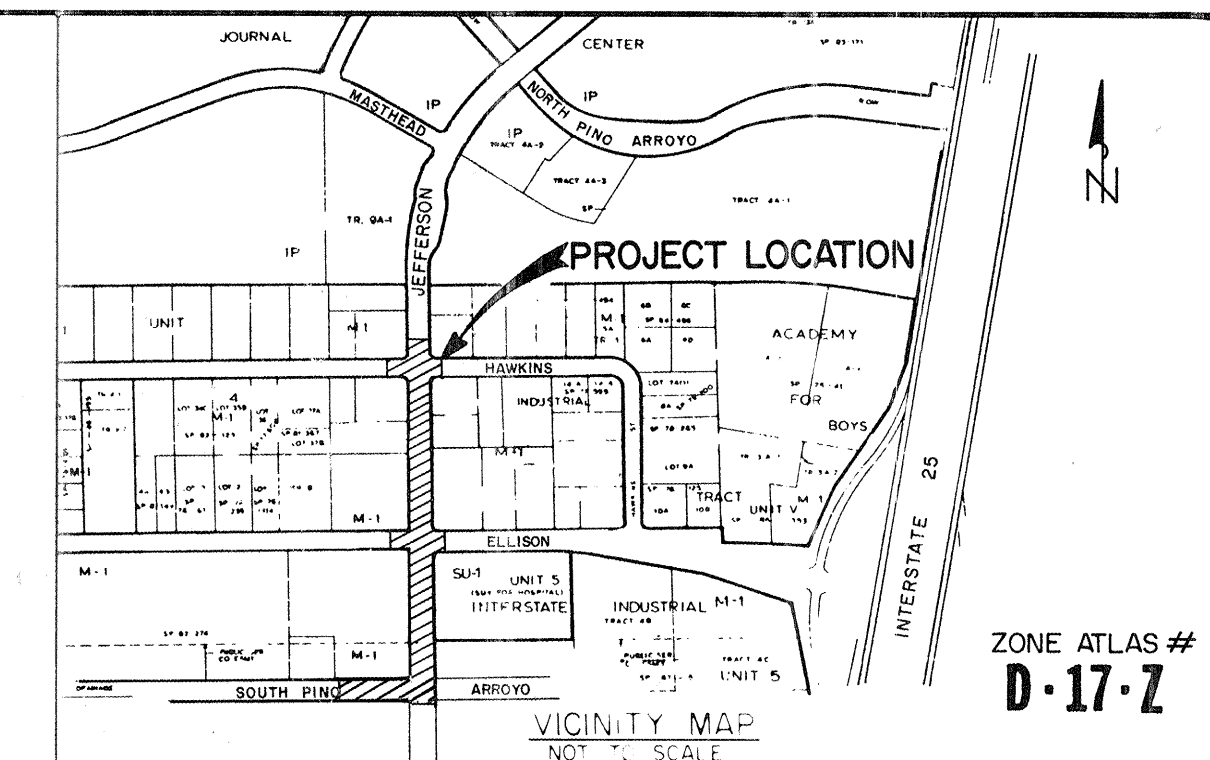
JEFFERSON STREET

STORM DRAIN IMPROVEMENTS

AT HAWKINS ST. AND ELLISON ST.

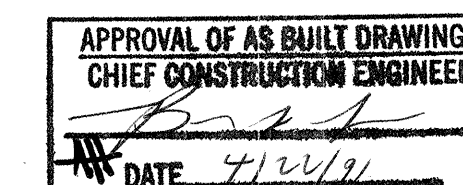
INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET & LOCATION MAP
2-3	STORM DRAIN PLAN & PROFILE
4	DETAILS
5	LOOP DETECTOR DETAILS
6	TRAFFIC CONTROL



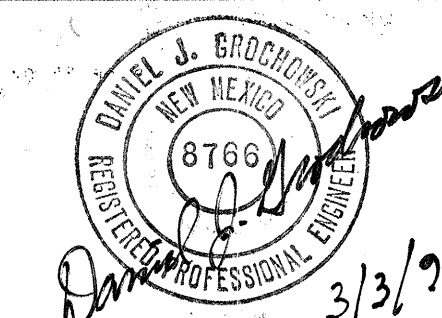
GENERAL NOTES

- All work detailed on these pages to be performed under contract shall, except as otherwise stated or provided for hereon, be constructed with the City of Albuquerque Standard Specifications for Public Works Construction - 1986 (referred to herein as the Standard Specifications).
- Two (2) working days prior to any excavation, contractor must contact Line Locating Service, 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 so that the conflict can be resolved with minimum amount of delay.
- 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 is constructed.
- If a curb is depressed for a drivepad or a wheelchair ramp, the drivepad or ramp shall be constructed prior to acceptance of the curb & gutter.
- All storm drainage facilities shall be completed prior to final acceptance.
- Contractor shall notify the ENGINEER not less than seven (7) days prior to starting work, in order that the ENGINEER may take necessary measures to insure the preservation of survey monuments. CONTRACTOR shall not disturb permanent survey monuments without the consent of the ENGINEER and shall notify the ENGINEER and bear the expense of replacing any that may be disturbed without permission. Replacement shall be done only by the ENGINEER. When a change is made in the finished elevation of the pavement of any roadway in which a permanent survey monument is located, CONTRACTOR shall, at his own expense, adjust the monument cover to the new grade unless otherwise specified.
- Contractor shall notify AMAFCA, John Kelly, @ 884-2215, not less than 2 days prior to work on the channel penetration. AMAFCA must inspect tied rebar prior to pouring concrete channel lining. No sawcutting will be allowed until sufficient filled sandbags are on hand to fill the opening in the event of inclement weather.
- All utility and service lines which are not specifically designated to be removed and replaced on the plans shall be maintained in service. Shoring, sheeting, and other means of support shall be employed by the contractor to prevent damage or loss of these existing utilities. Beam and cable or other adequate supports shall be used for temporary support of all utility and service lines which cross the trench. Any damage to existing utilities and services shall promptly be repaired at the contractor's expense. The engineer will be immediately notified of any significant deviation of exposed utilities and services from the locations shown on the plans so that conflicts can be resolved in a timely manner.



REV	SHEETS	CITY ENGINEER	DATE	USER	DEPT	DATE	USER	DEPT	DATE
APPROVAL OF REVISIONS									

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



BOHANNON - HUSTON, INC.
ALBUQUERQUE
ENGINEERS, PLANNERS, PHOTOGRAMMETRISTS

APPROVED FOR CONSTRUCTION

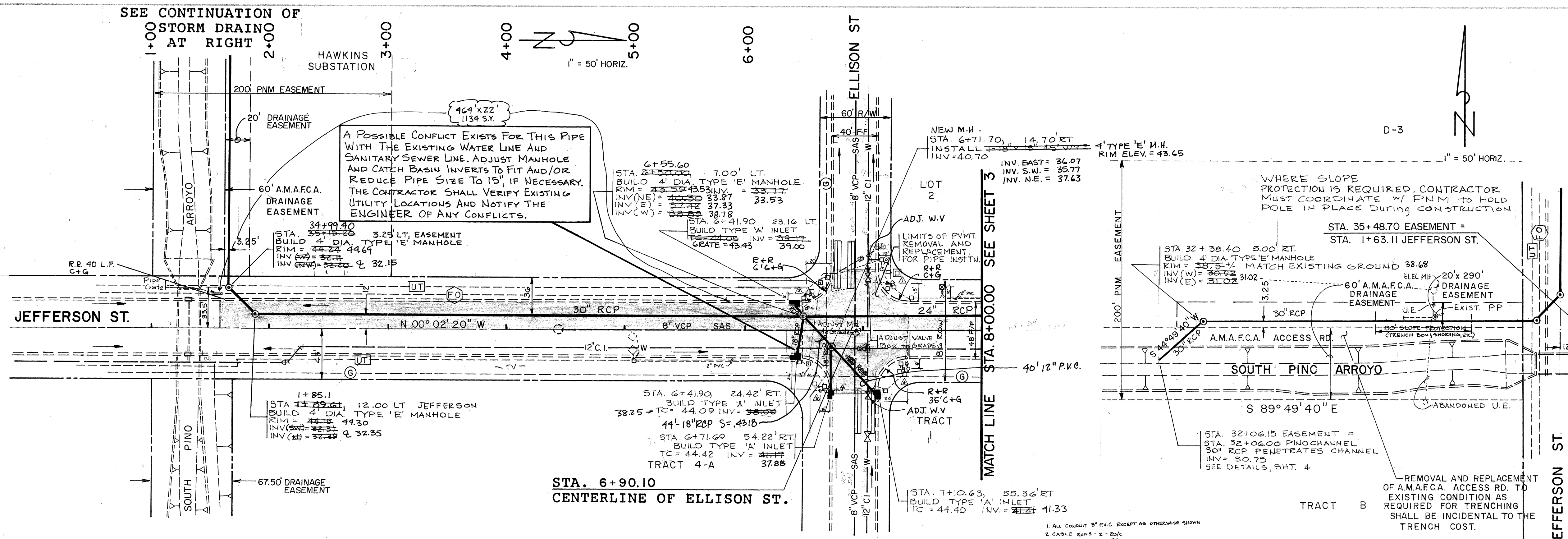
Paul B. Smith
7-23-90 C.E.

PROJECT NUMBER

4065.90

SHEET **1** OF **6**

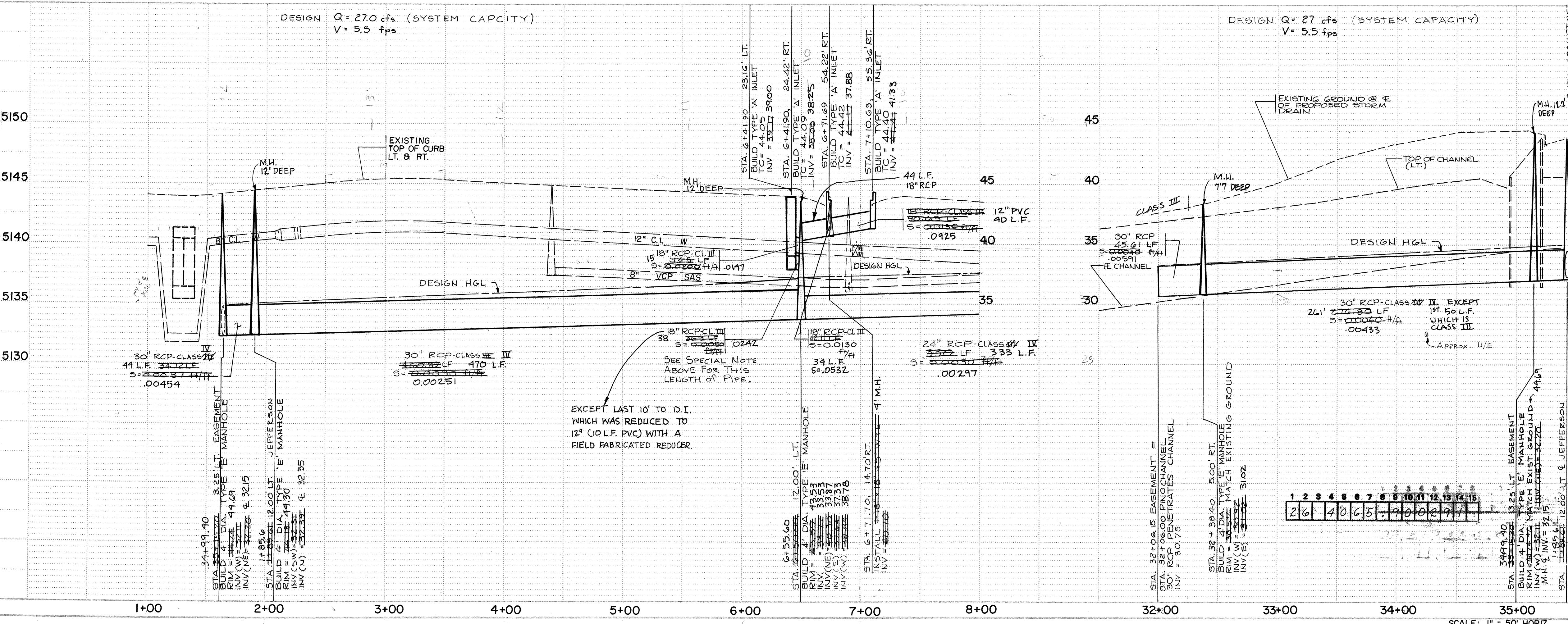
SEE CONTINUATION OF
LINE TO THE RIGHT



JEFFERSON STREET

Any landscaping disturbed during construction shall be replaced to its original condition and shall be incidental to the item which caused the disturbance.

SOUTH PINO ARROYO



NOTE: The Contractor shall maintain two lanes of traffic at all times, unless otherwise approved by the Engineer. To ensure that the trench does not encroach on the required traffic lanes, existing curb and gutter or existing fiber optics telephone cable, the Contractor shall use one of the following methods:

- (1) where possible, dig the trench per the typical trench section shown (side slopes at 1-1/2:1);
- (2) employ the use of a trench box, shoring, or other means acceptable to the Engineer, to ensure trench safety with side slopes steeper than 1-1/2:1.

In all cases the Contractor shall be responsible for trench safety.

TRAFFIC LOOPS INSTALLED

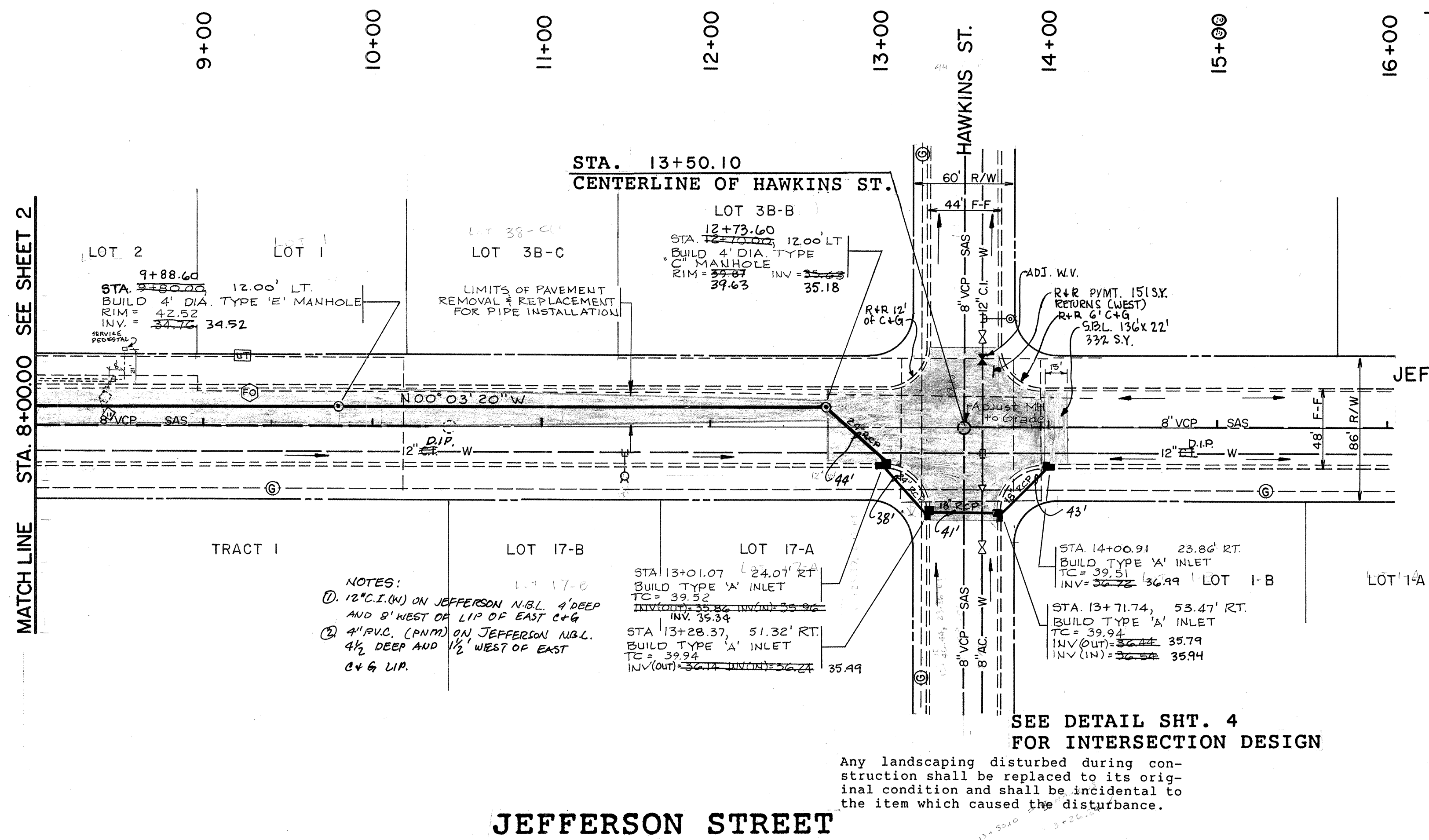
1. 2-CX40 LOOPS @ S.D.L. JEFFERSON 150' NORTH OF ELLISON RETURN RT.
2. 2-CX40 LOOPS @ ELLISON E.D.L. P.C. @ JEFFERSON (S.W. RETURN)
3. 2-CX40 LOOPS @ ELLISON W.R.L. P.C. @ JEFFERSON (N.E. RETURN)

- LEGEND
- Right-Of-Way
 - New Storm Drain w/ Manhole
 - Back of Curb w/ Lip of Gutter
 - New Type 'A' Drop Inlet
 - Exist. S.A.S. Line w/ Manhole
 - Exist. Water Line
 - Exist. Water Valve
 - Exist. Fire Hydrant
 - Flow Direction
 - Fiber Optic Cable

- NOTES:
- 1) Stations and Offsets for Drop Inlets are given to the Center of the Inlet.
 - 2) Details for Type 'A' Inlets are as per C.O.A. Std. Dwg. #2201 & #2202.
 - 3) South Pino Arroyo stationing is based on the north easement line.
 - 4) Jefferson St. stationing is based on the centerline of right-of-way.
 - 5) Install new detector loops in same location as existing, if detector loop is out for storm drain installation.
 - 6) Contractor shall protect all existing signal conduit and cable. Any conduit or cable damaged during construction shall be replaced at the Contractor's expense. Cable replacement and splices shall be from pull box to pull box.
 - 7) Bedding for all RCP shall be Class B. OR CLASS IV PIPE
 - 8) Sawcut for all pavement removals.

CITY OF ALBUQUERQUE			
PUBLIC WORKS DEPARTMENT			
ENGINEERING GROUP			
TITLE: JEFFERSON ST. STORM DRAIN IMPROVEMENTS			
STORM DRAIN PLAN & PROFILE			
APPROVALS	ENGINEER	DATE	APPROVALS
DRG CHAIRMAN	R. Kane	7-20-90	WATER
TRANSPORTATION	R. Kane	7-16-90	WASTE WATER
HYDROLOGY	R. Kane	7-18-90	
A.M.A.F.C.A.	John Kelly	6/10/90	
PROJECT NO.	4065.90	MAP NO.	D-17
SHEET	2	OF	6

MATCH LINE STA. 8+00.00 SEE SHEET 2

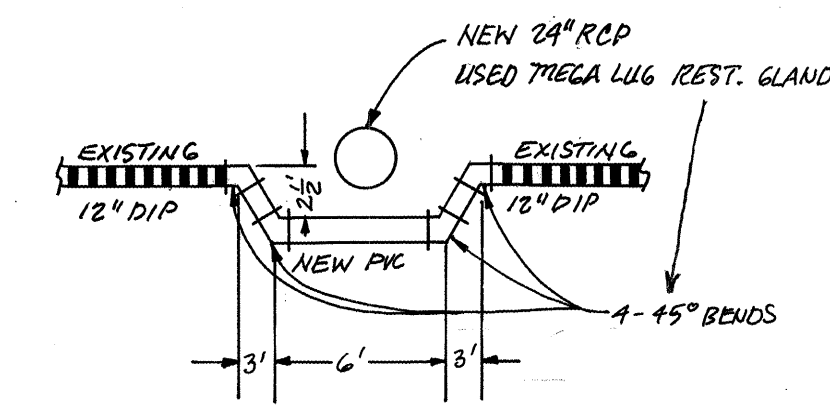
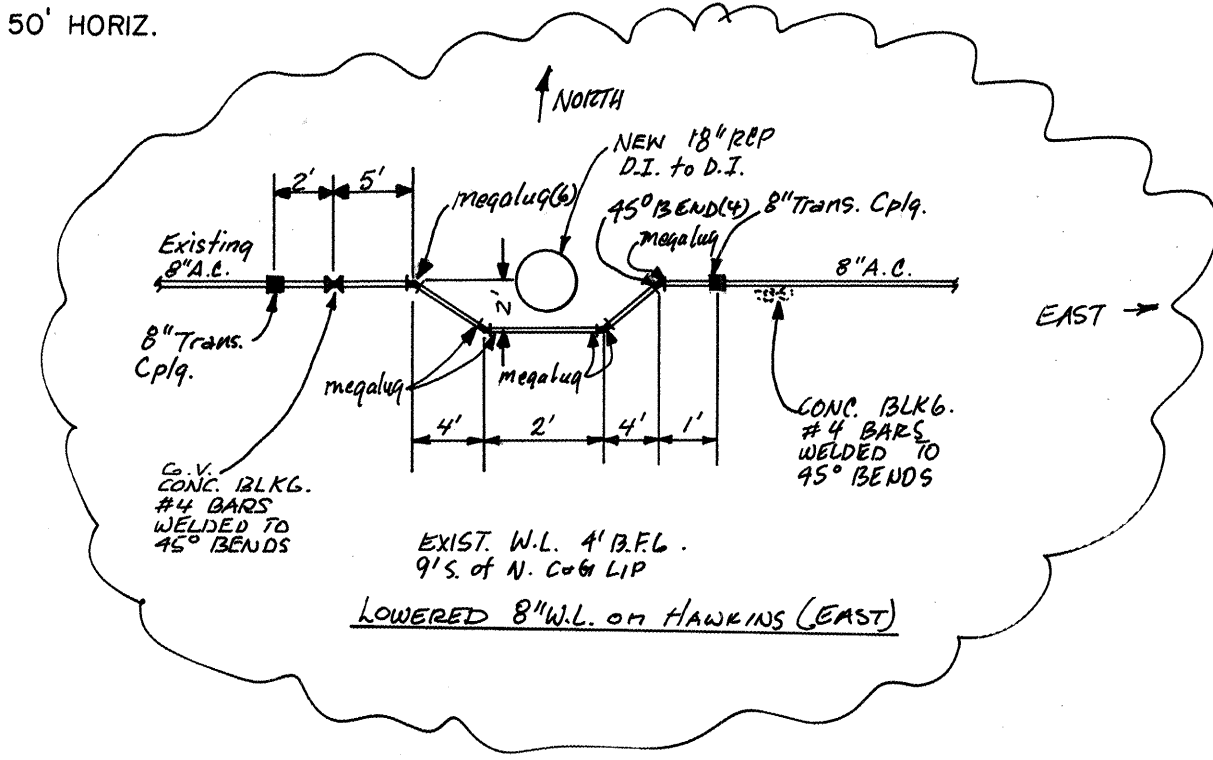


NOTES:
1. 12" C.I. (N) ON JEFFERSON N.B.L. 4' DEEP AND 8' WEST OF LIP OF EAST C+G
2. 4" R.V.C. (PMT) ON JEFFERSON N.B.L. 4 1/2' DEEP AND 1/2' WEST OF EAST C+G LIP.

SEE DETAIL SHT. 4 FOR INTERSECTION DESIGN

Any landscaping disturbed during construction shall be replaced to its original condition and shall be incidental to the item which caused the disturbance.

1" = 50' HORIZ.



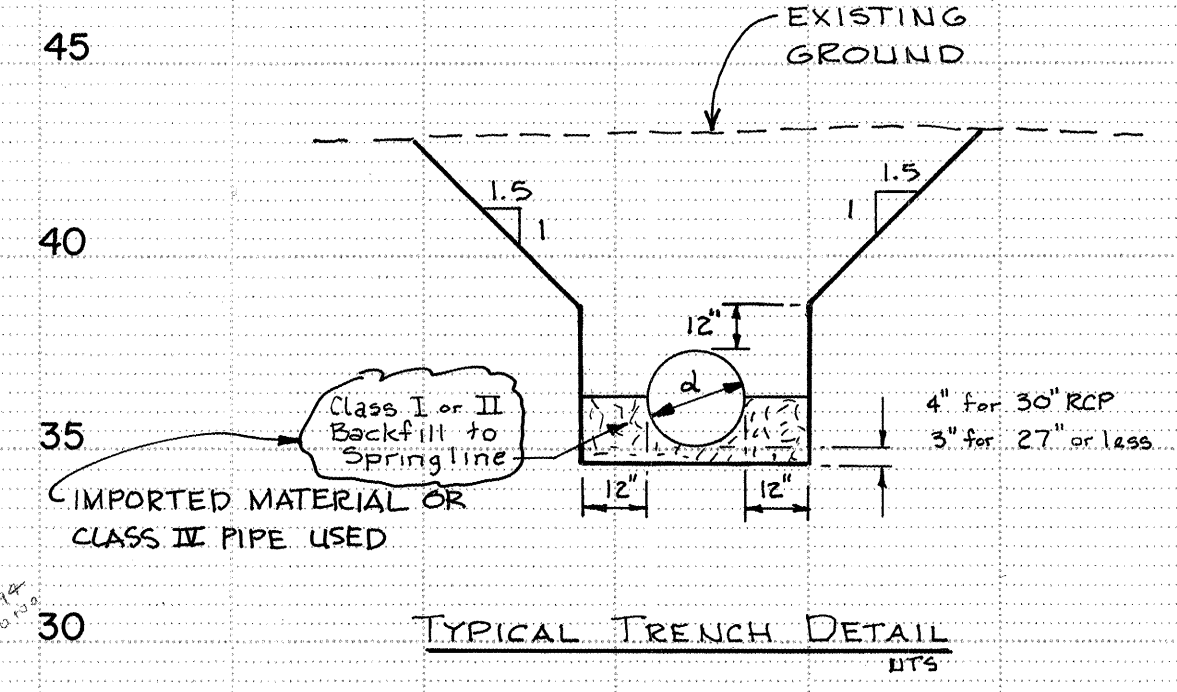
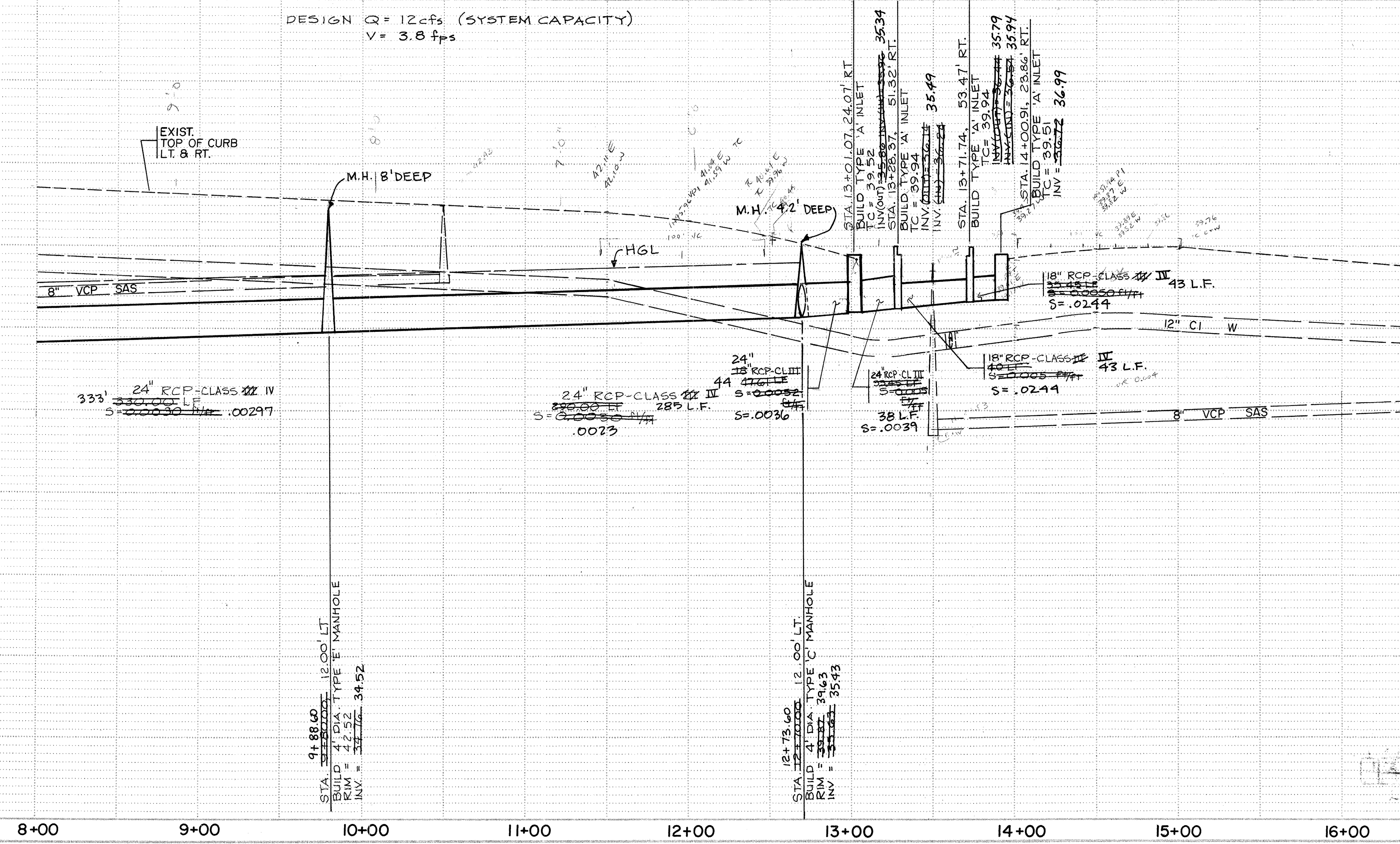
LOWERED EXISTING 12" WATERLINE TO N.B.L. JEFFERSON & S.E. CORNER OF HAWKINS

NOTE: The Contractor shall maintain two lanes of traffic at all times, unless otherwise approved by the Engineer. To ensure that the trench does not encroach on the required traffic lanes, existing curb and gutter or existing fiber optics telephone cable, the Contractor shall use one of the following methods:
(1) where possible, dig the trench per the typical trench section shown (side slopes at 1-1/2:1),
(2) employ the use of a trench box, shoring, or other means acceptable to the Engineer, to ensure trench safety with side slopes steeper than 1-1/2:1.
In all cases the Contractor shall be responsible for trench safety.

AS-BUILT NOTE
1. THE N.B.L. OF JEFFERSON BETWEEN ELLISON & HAWKINS WAS MILED 2" DEEP AND 2" OF TYPE "B" SURFACE COURSE WAS PLACED W/ PETROMAT
2. THE N.B.L. & S.B.L. OF JEFFERSON FROM HAWKINS TO APPROXIMATELY 300 FT. SOUTH OF ELLISON ST. CENTERLINE AND APPROXIMATELY 45 FT. WEST OF JEFFERSON ST. CENTERLINE. ELEV = 5145.55

- LEGEND
- Right-Of-Way
 - New Storm Drain w/ Manhole
 - New Type 'A' Drop Inlet
 - Back of Curb w/ Lip of Gutter
 - Exist. S.A.S. Line w/ Manhole
 - Exist. Water Line
 - Exist. Water Valve
 - Exist. Fire Hydrant
 - Flow Direction

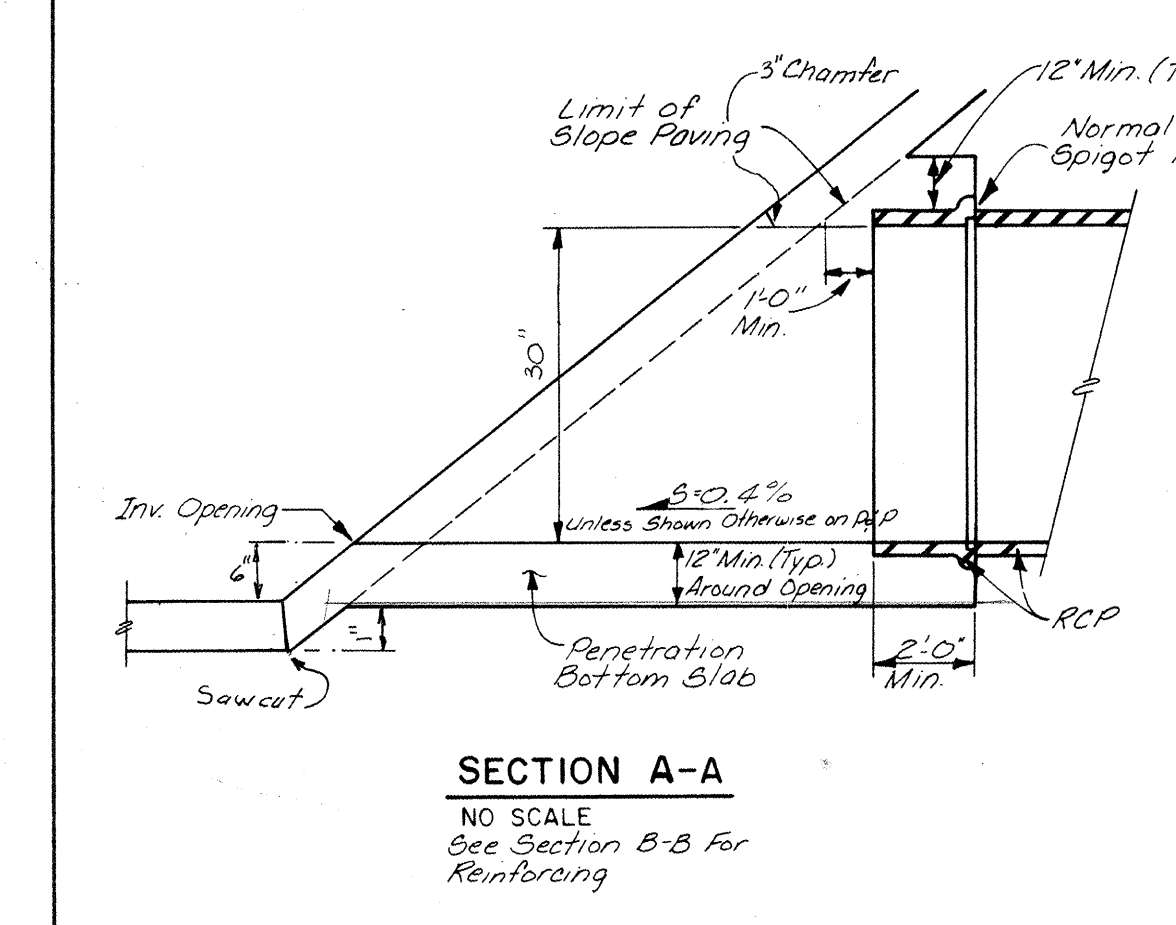
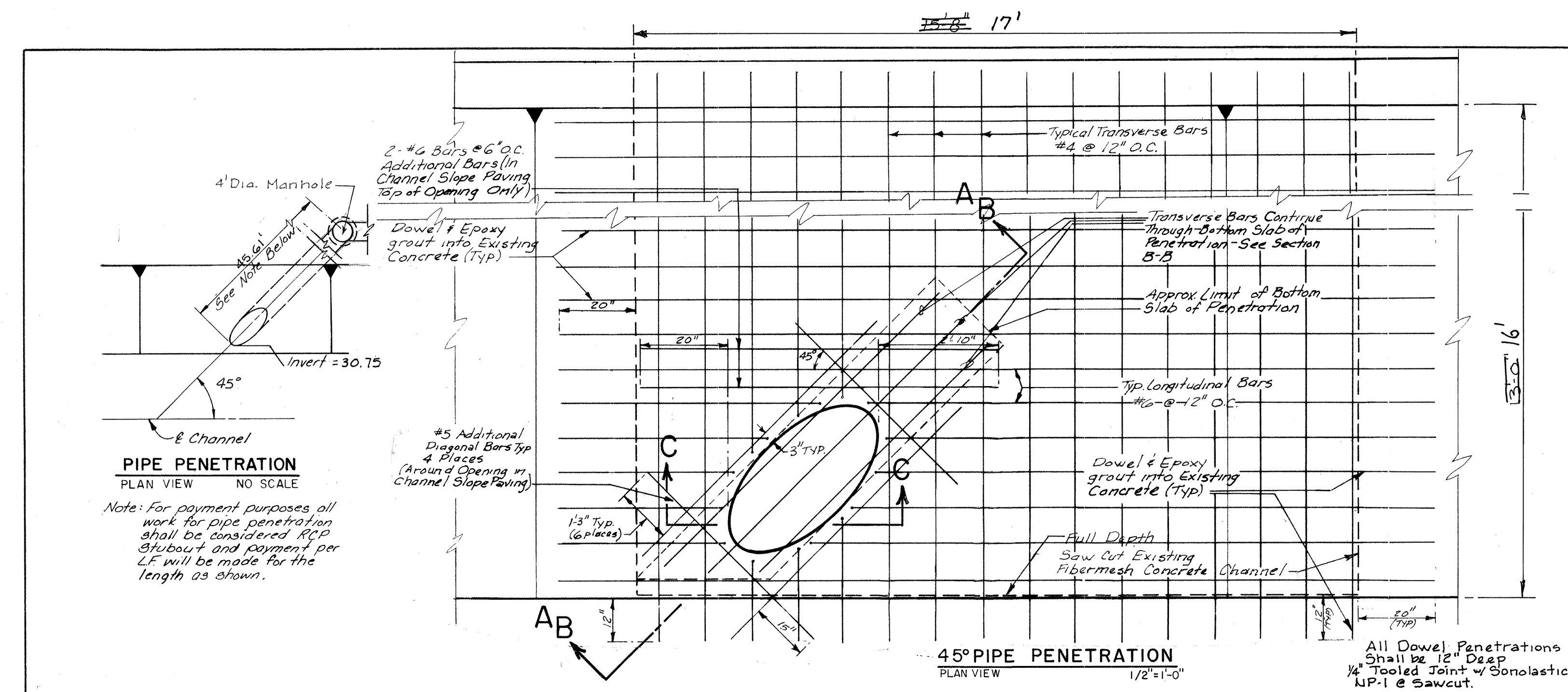
- NOTES:
- Stations and Offsets for Drop Inlets are given to the Center of the Inlet.
 - Details for Type 'A' Inlets are as per C.O.A. Std. Dwg. #2201 & #2202.
 - Jefferson St. stationing is based on the centerline of right-of-way.
 - Bedding for all RCP shall be Class B.
 - See note 5 & 6, on sheet 2.
 - Sawcut for all pavement removals.



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
26 4065.90 900391

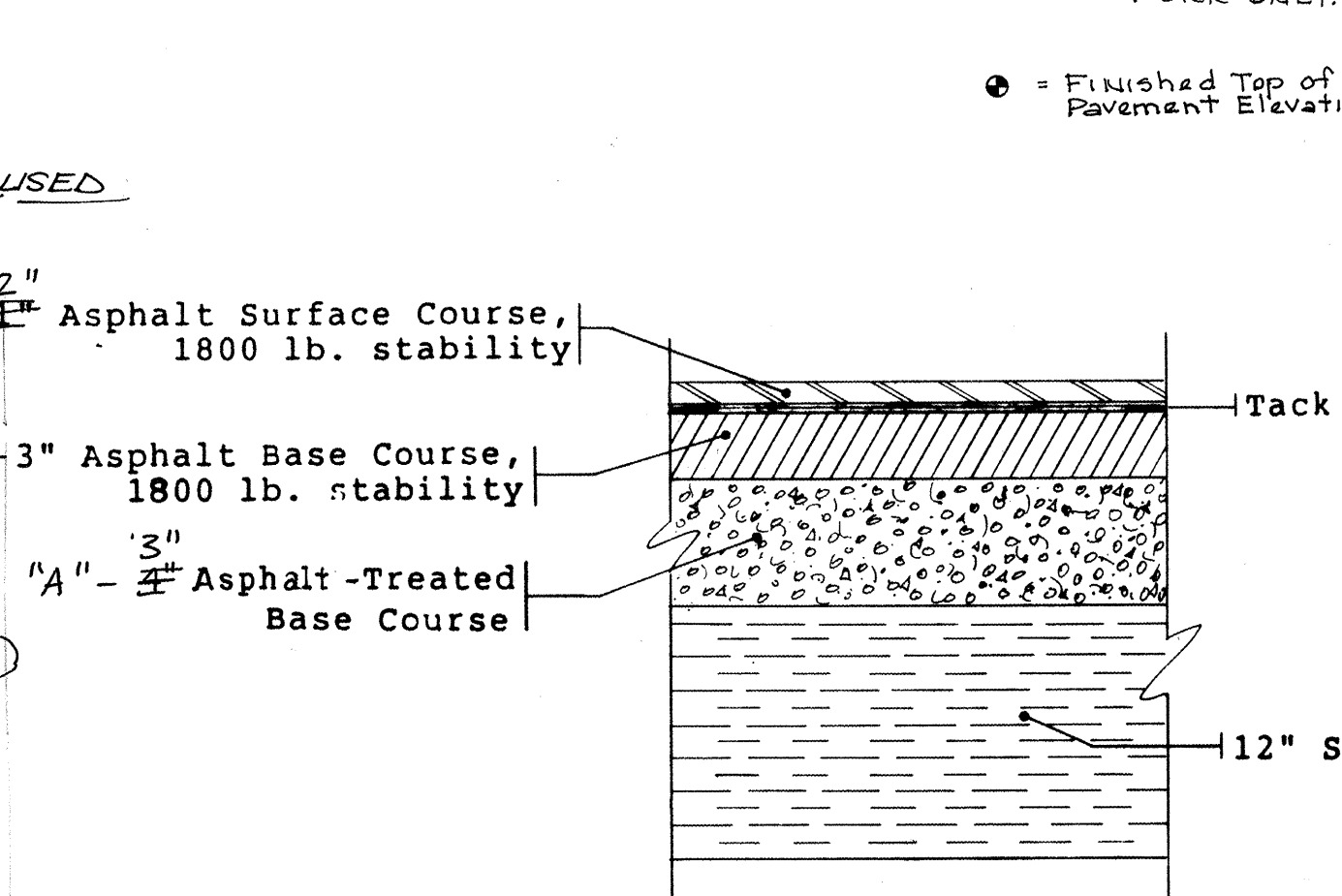
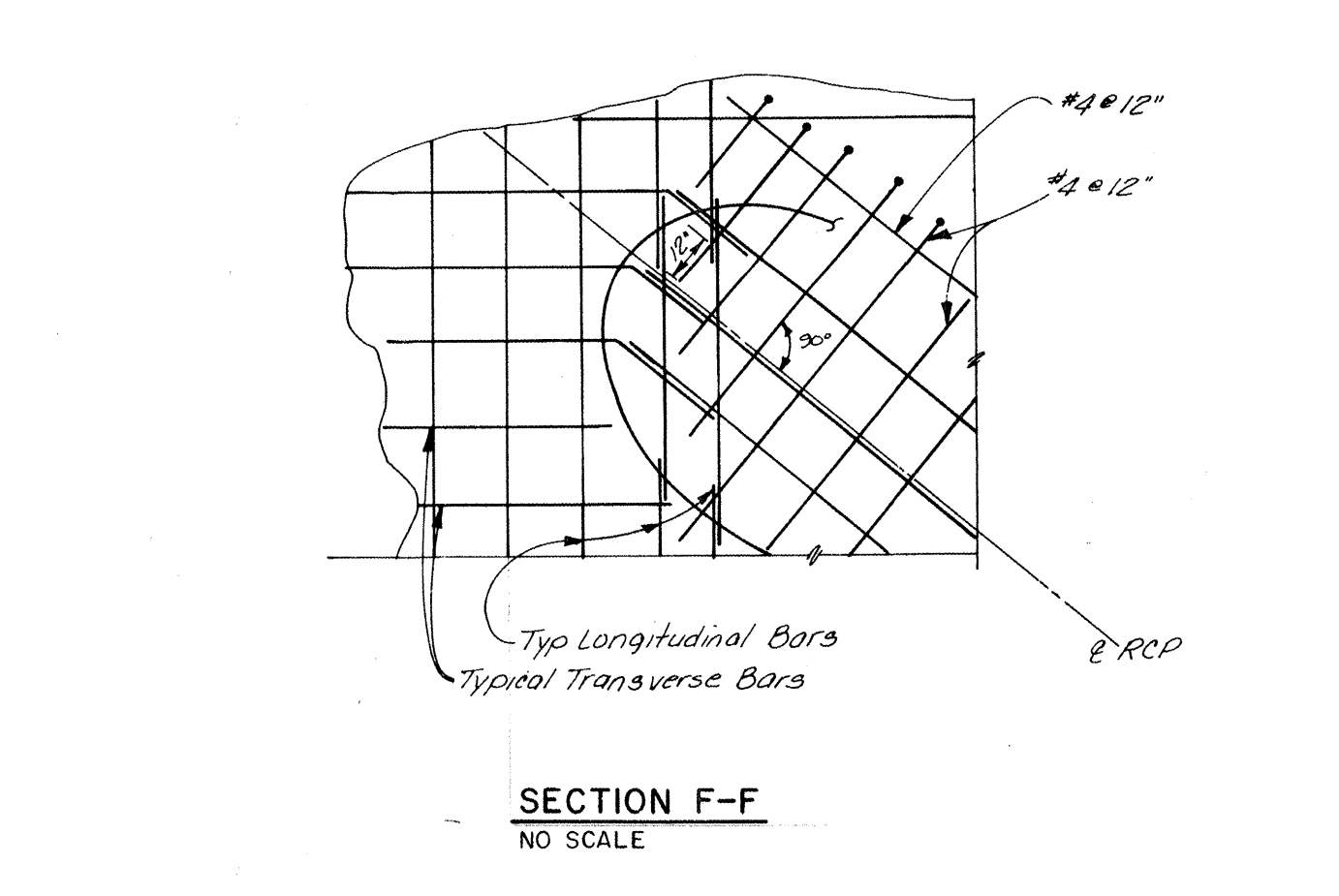
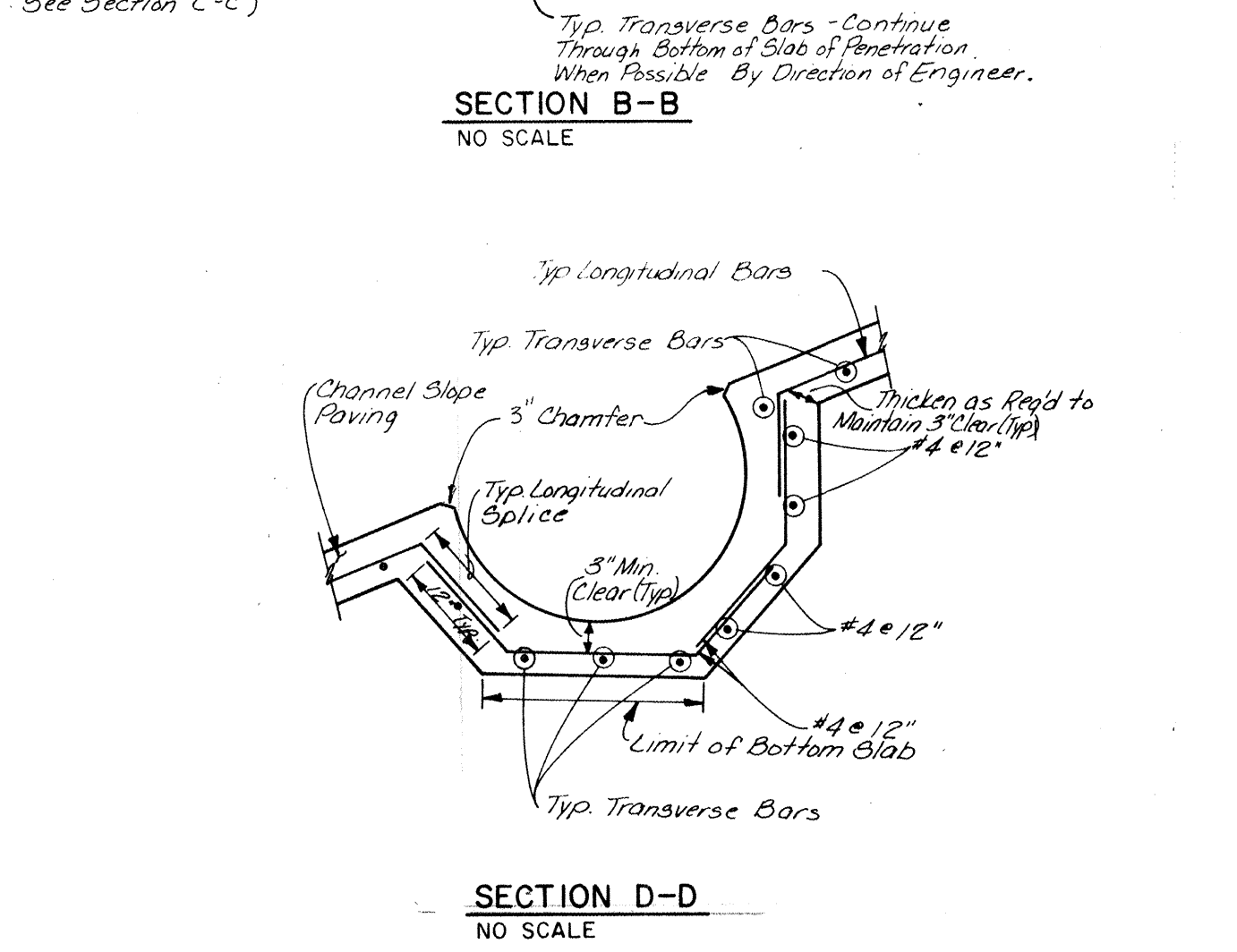
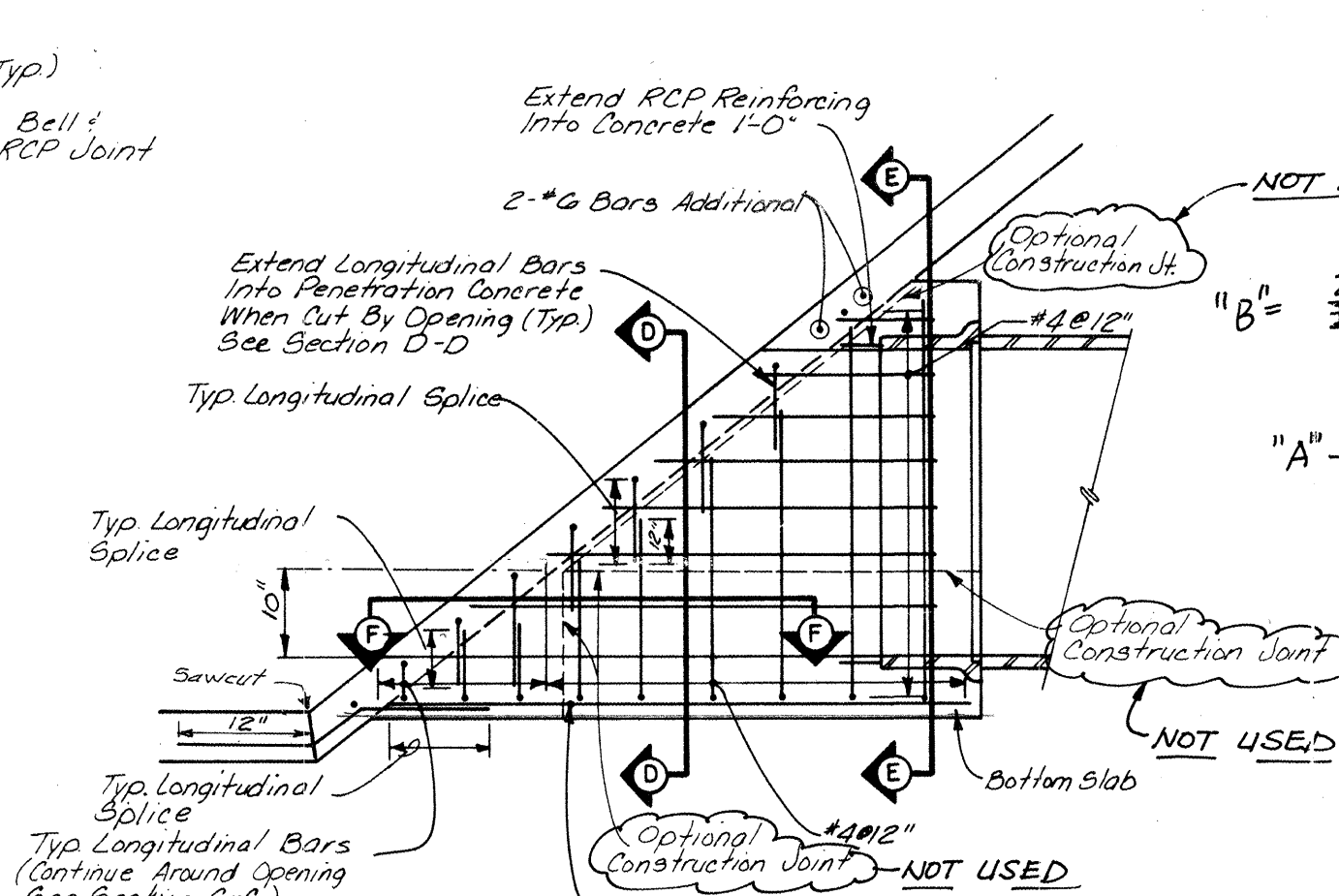
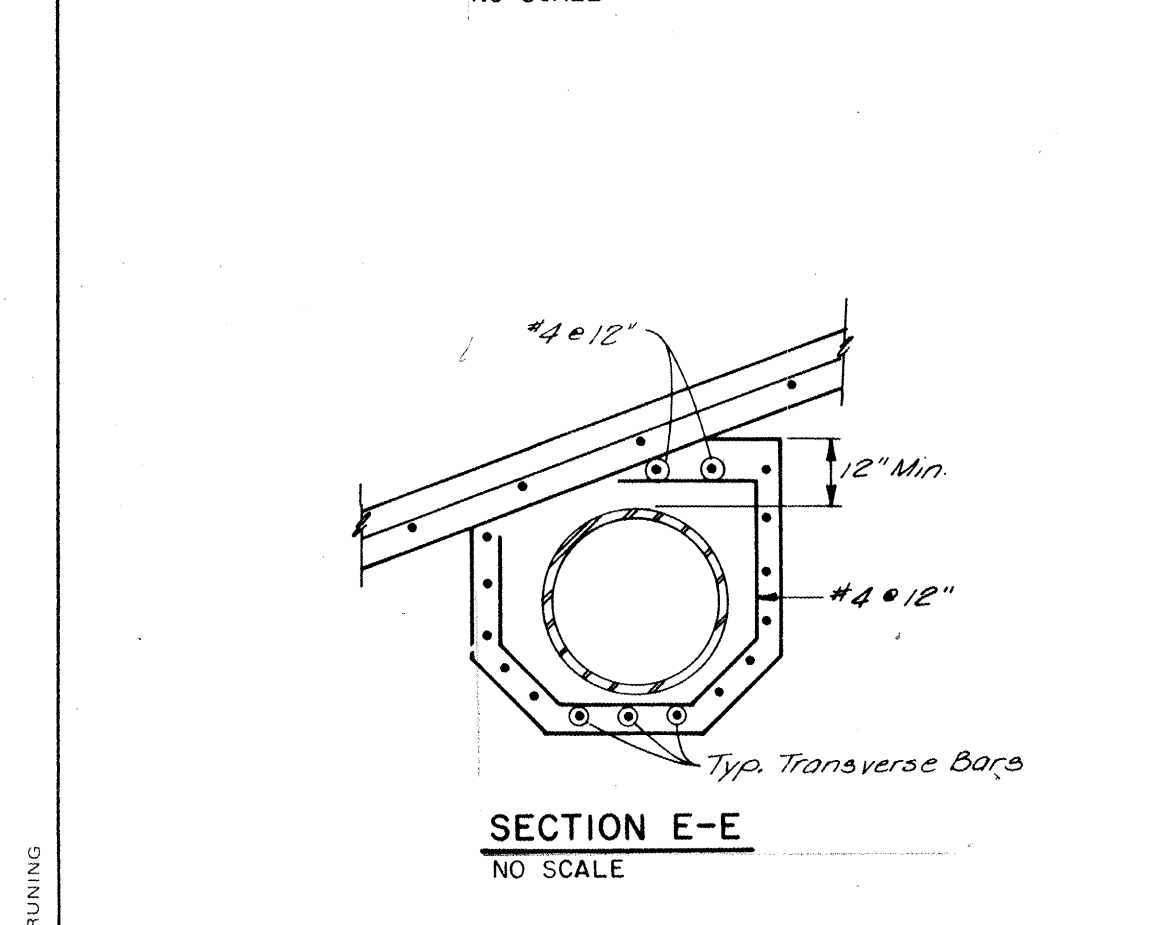
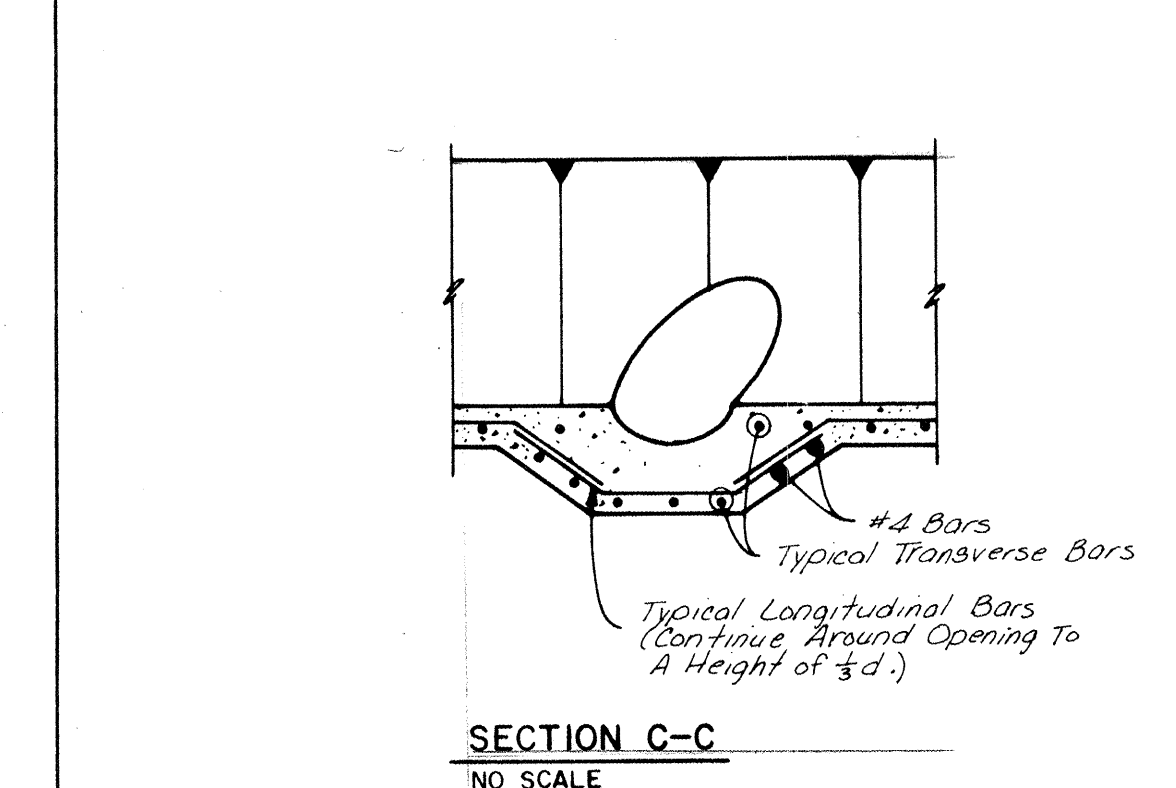
SCALE: 1" = 50' HORIZ.
1" = 5' VERT
BHI JOB NO. 89281

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING GROUP			
TITLE: JEFFERSON ST. STORM DRAIN IMPROVEMENTS STORM DRAIN PLAN & PROFILE			
APPROVALS	ENGINEER	DATE	APPROVALS
DRC CHAIRMAN	R. W. Kane	7-20-90	WATER
TRANSPORTATION	R. W. Kane	7-6-90	WASTE WATER
HYDROLOGY	R. W. Kane	7-18-90	
A.M.A.F.C.A.	M. A. Kane	6-30-90	
PROJECT NO.	4065.90	D-17	SHEET 3 OF 6



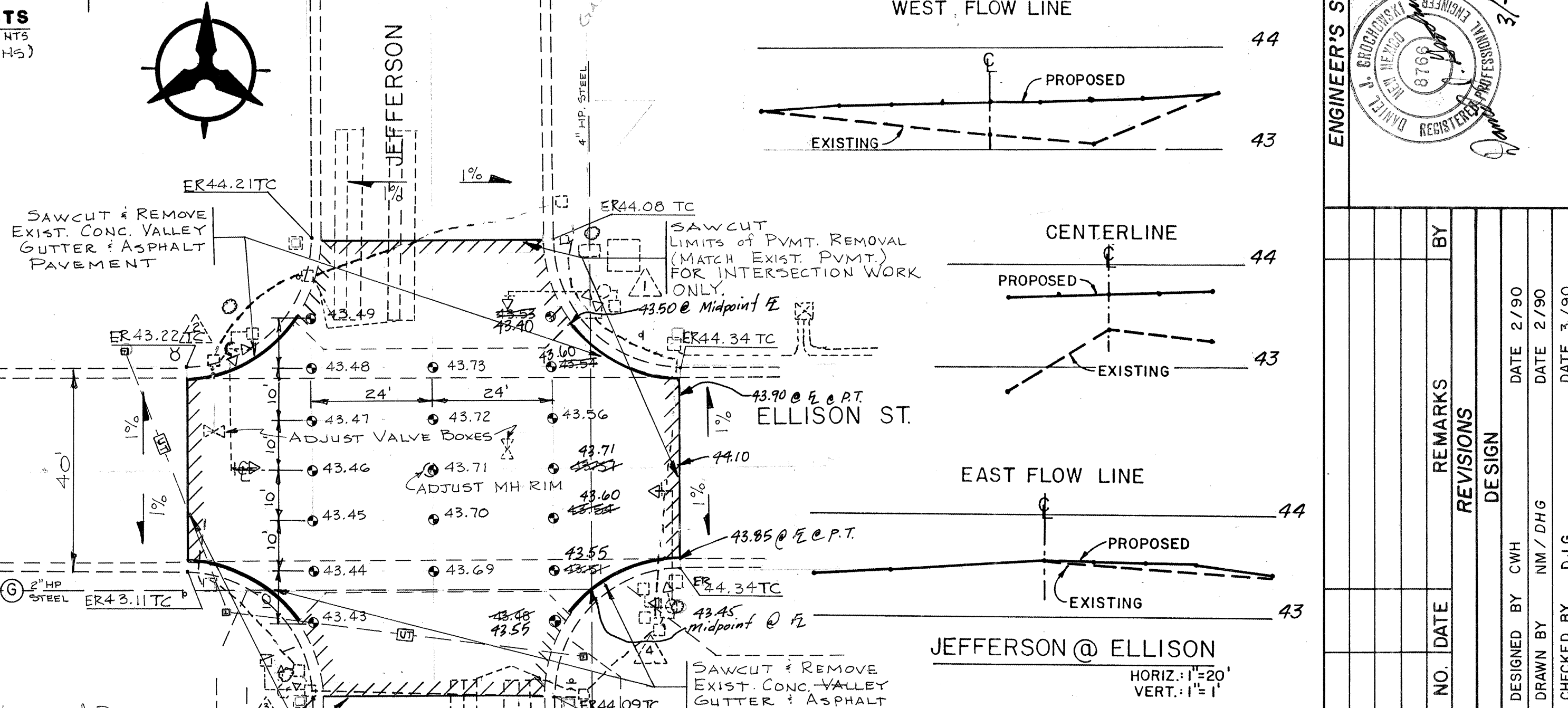
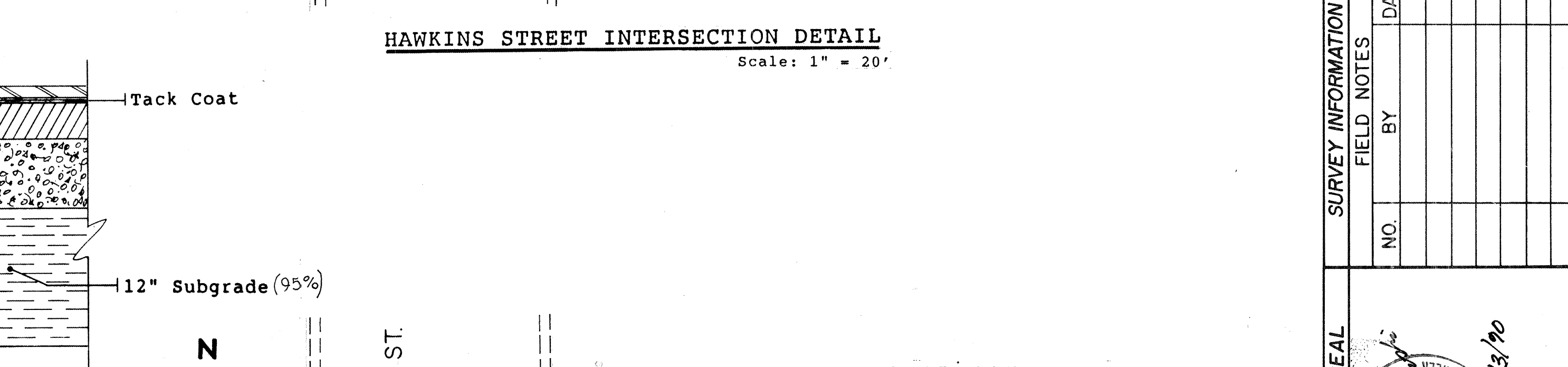
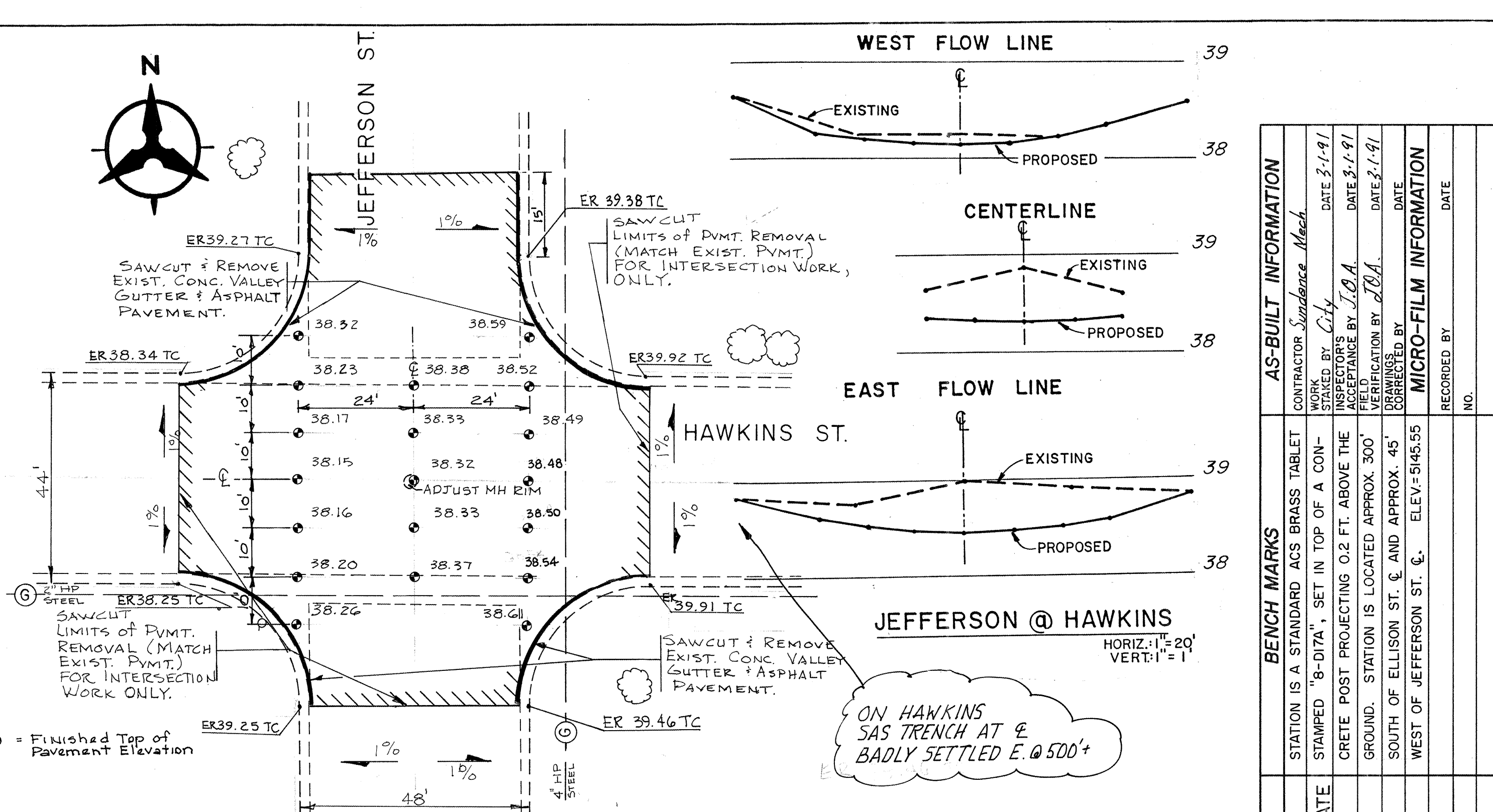
AS-BUILT NOTES

1. USED COMPLETE 2' JOINT AT CHANNEL OPENING END TRIMMED AND PIPE OPENING POURED MONOLITHIC WITH THE CHANNEL SLOPE.
2. STEEL ADJUSTED ACCORDINGLY.



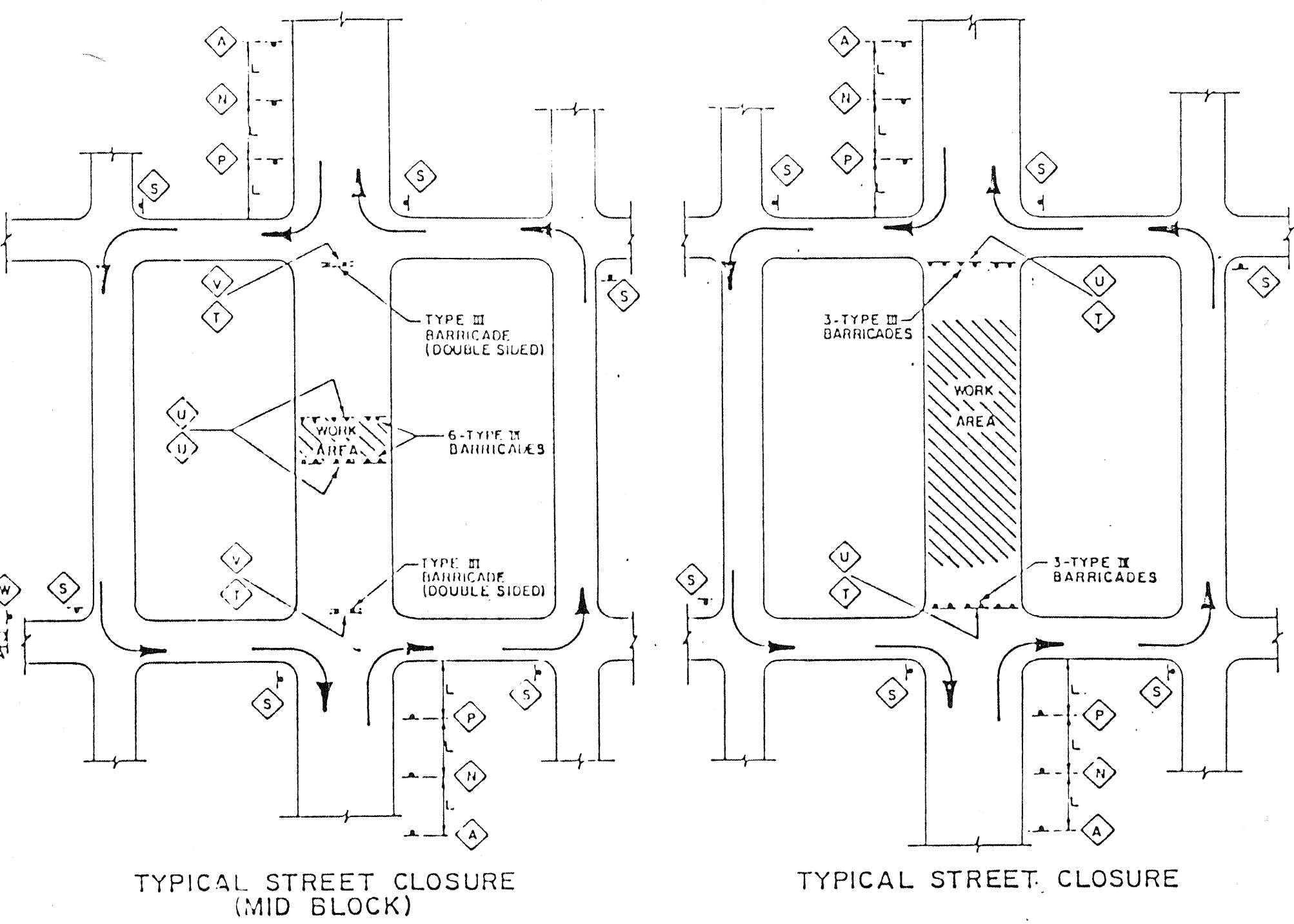
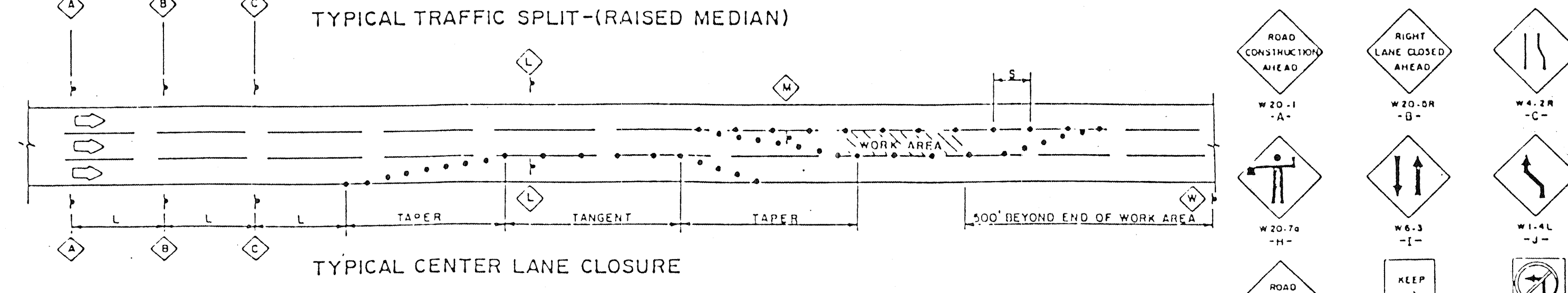
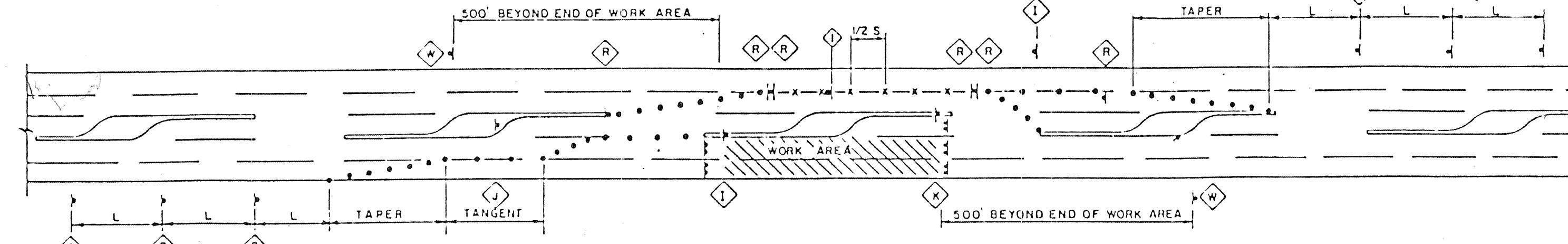
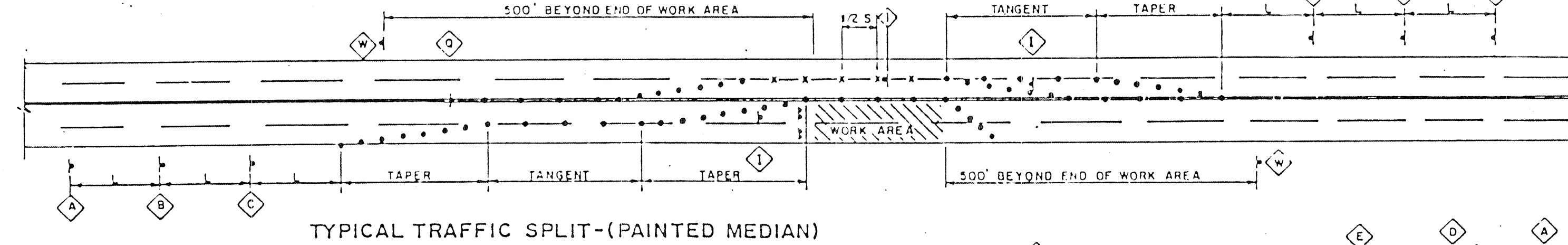
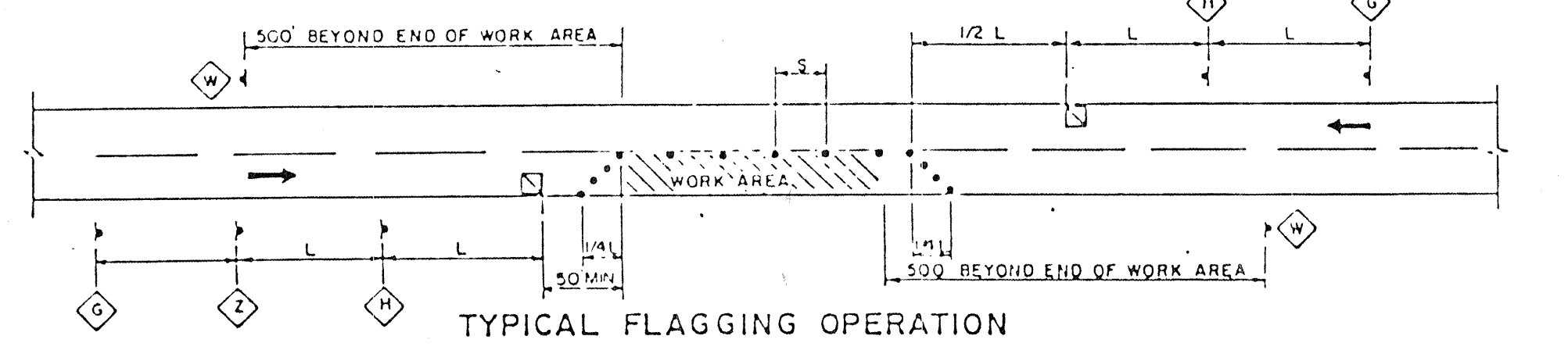
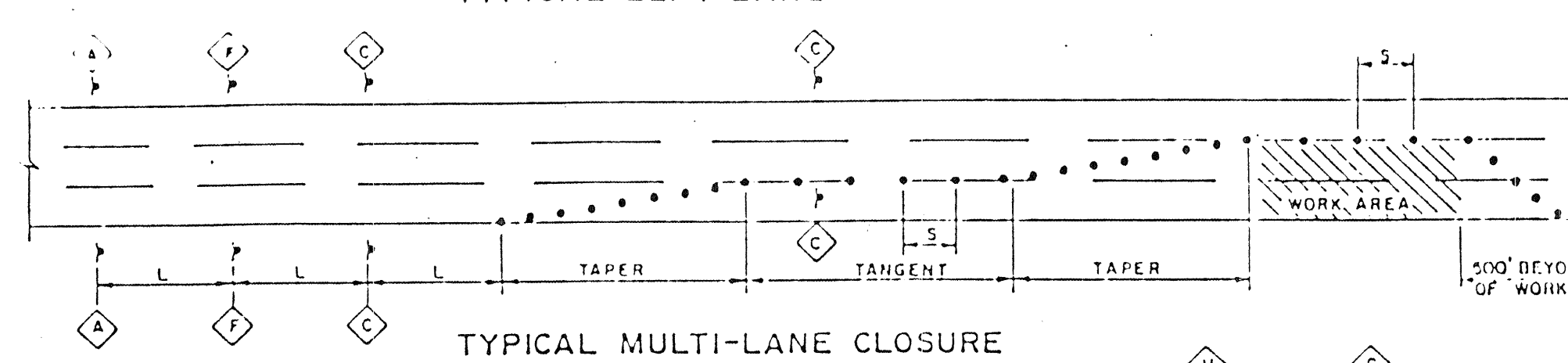
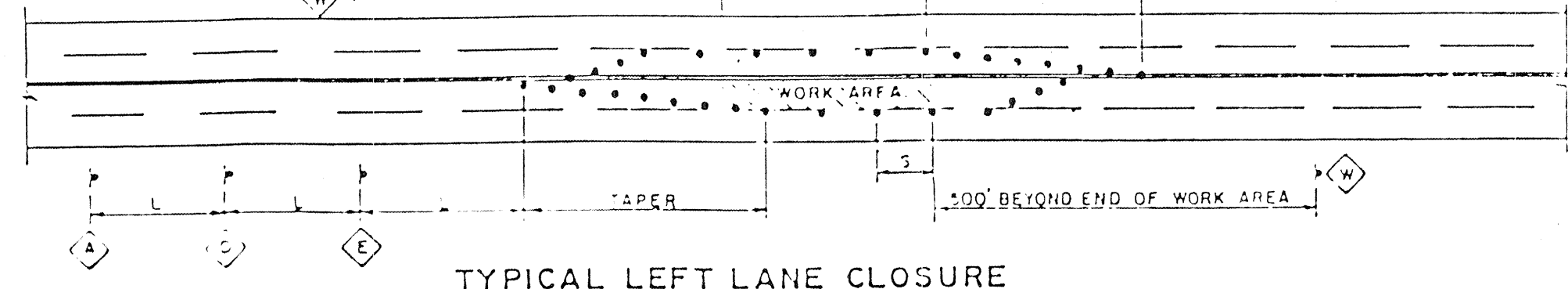
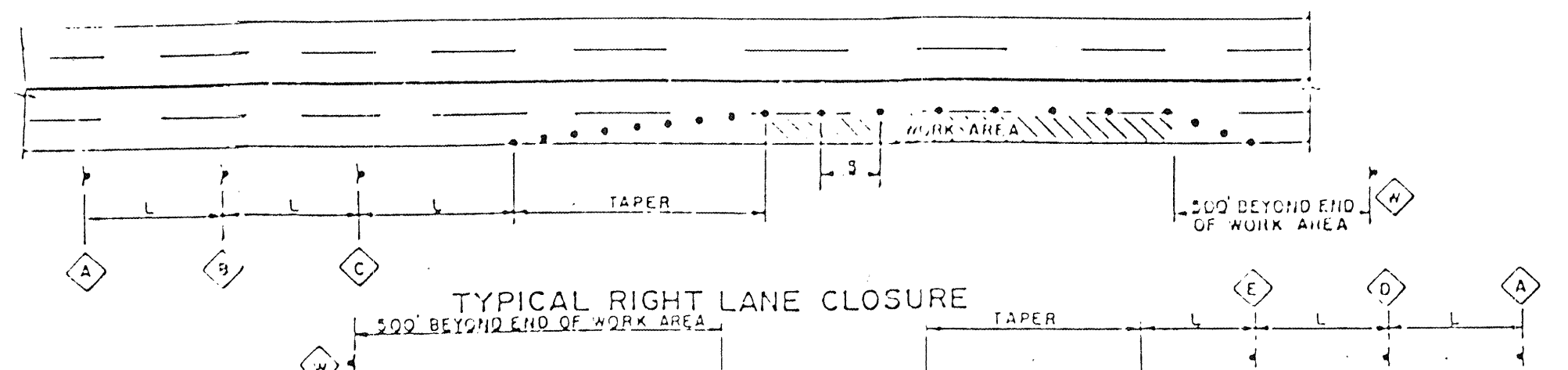
AMAFCA CHANNEL NOTES

1. Contractor shall name AMAFCA as additional insured.
2. Contractor shall take all necessary precautions to prevent water from getting under the concrete channel.
3. Contractor shall have sufficient filled sandbags on hand to fill the opening in the channel slope for the lower 6' (3' flow depth) when directed by the Engineer of AMAFCA.
4. Contractor shall supply AMAFCA with the Contractor's 24 hour emergency telephone number.
5. The channel cut cannot be left open over the weekend.



ELLISON STREET INTERSECTION DETAIL
Scale: 1" = 20'

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R. W. Kane	7-25-90	WATER	R. W. Kane	7-6-90
TRANSPORTATION	R. W. Kane	7-16-90	WASTE WATER	R. W. Kane	7-6-90
HYDROLOGY	R. W. Kane	7-18-90			
A.M.A.F.C.A.	R. W. Kane	6-25-90			
PROJECT NO.	4065.90		MAP NO.	D-17	
			SHEET	4	6



NOTES
ALL ADVANCE WARNING SIGNS ARE TO BE DOUBLE INDICATED WHENEVER MEDIANS ARE PRESENT.
TRANSFORMATION FROM EXISTING SIGNALS TO SPAN WIRE IS TO OCCUR AT OFF PEAK HOURS.

TAPER REQUIREMENTS

SPEED LIMIT (MPH)	TAPER LENGTH (FEET)			MAXIMUM MINIMUM DISTANCE BETWEEN DEVICES (FEET) REQUIRED
	10' LANE	11' LANE	12' LANE	
25	104	115	125	25
30	150	165	185	30
35	204	225	245	35
40	267	293	320	40
45	450	475	540	45
50	500	550	600	50
55	550	605	660	55

- LEGEND
- WORK AREA
 - TRAFFIC SIGN & QUANTITY (SEE THIS SHEET FOR DESIGNATION)
 - BARRICADE - TYPE I, TYPE II, OR BARREL
 - BARRICADE - TYPE II
 - 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

TRAFFIC CONTROL

Three (3) working days prior to beginning construction the CONTRACTOR shall submit to the CONSTRUCTION CO-ORDINATION DIVISION a detailed construction schedule. Two (2) working days prior to construction the CONTRACTOR shall obtain a barricading permit from the CONSTRUCTION CO-ORDINATION DIVISION. CONTRACTOR shall notify BARRICADE ENGINEER (768-2551) prior to occupying an intersection.

All street striping altered or destroyed shall be replaced in kind by CONTRACTOR to location and in kind as existing

NOTE: ARROW INDICATION TO BE ADJUSTED AS NEEDED

26 4065.90 900691

AS-BUILT INFORMATION

CONTRACTOR	DATE
WORKS BY	
INSPECTORS	
ACCEPTANCE BY	
VERIFICATION BY	
DRAWING BY	
RECORDED BY	

SURVEY INFORMATION

FIELD NOTES	DATE
NO.	
BY	

ENGINEER'S SEAL

9/13/90

REVISIONS

NO.	DATE	REMARKS
DESIGNED BY	DATE	
DRAWN BY	DATE	
CHECKED BY	DATE	

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TITLE: JEFFERSON ST. STORM DRAIN IMPROVEMENTS
TRAFFIC CONTROL

APPROVALS	ENGINEER	DATE	APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	R. W. Kane	7-26-90	WATER	R. W. Kane	7-6-90
TRANSPORTATION	R. W. Kane	7-6-90	WASTE WATER	R. W. Kane	7-6-90
HYDROLOGY	R. W. Kane	7-18-90			
A.M.A.F.C.A.	W. H. G. K.	6-15-90			

PROJECT NO. 4065.90 MAP NO. D-17 SHEET 6 OF 6