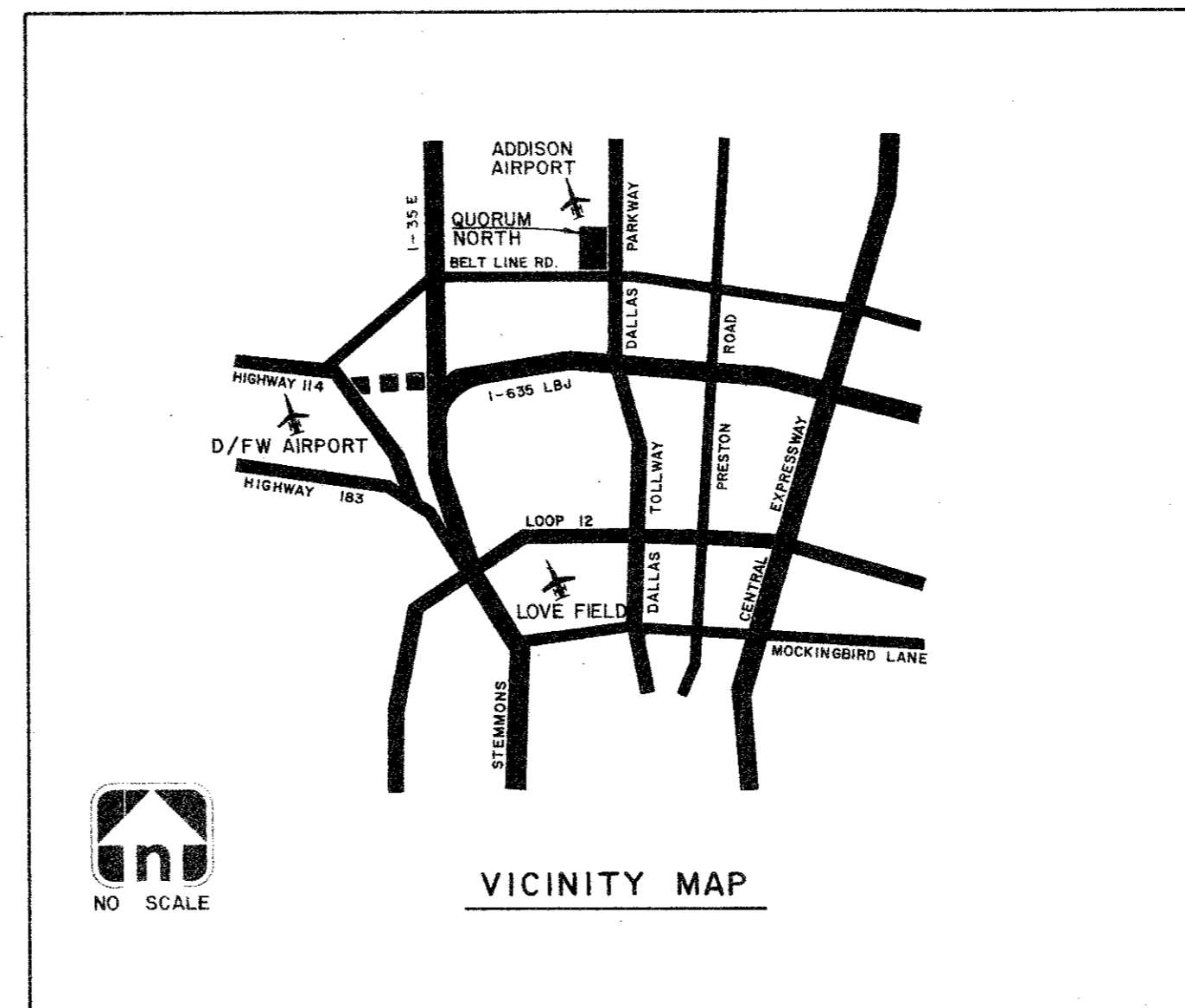


SCALE: 1" = 200'



NO SCALE

VICINITY MAP

INDEX	
SHEET NO.	TITLE
1	COVER SHEET & LAYOUT
2	UTILITY SITE PLAN
3	PAVING PLAN
4	DRAINAGE AREA MAP
5	GRADING PLAN
6	PAVING-QUORUM LOOP NORTH
7	PAVING-LOOP NORTH & FACTORY ST.
8	STORM SEWER LINE 'A'
9	STORM SEWER LINES 'A' & 'B'
10	10" SAN. SEW. APPROACH MAIN
11	SAN. SEW. LINE 'A'
12	SAN. SEW. LINE 'A'
13	PAVING DETAILS
14	WATER MAIN APPURTENANCES
15	SAN. SEW. DETAILS
16	STORM DRAIN INLET DETAILS
17	DETAIL - TYPE 'Y' INLET
18	DETAIL - CONCRETE CRADLE
19	DETAIL - TYPE I & II INLET

CITY OF ADDISON
APPROVED
 FOR CONSTRUCTION
 BUILDING DEPARTMENT

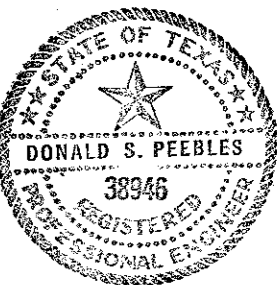
DATE: _____
 NOTE: CONTRACTOR IS HEREBY INSTRUCTED TO EXERCISE CARE IN ALL HIS OR HER WORK, KEEPING ALL REQUIREMENTS OF BOTH NATIONAL AND LOCAL CODES AND FOR ORDINANCES APPLICABLE TO HIS WORK. APPROVAL OF THESE DRAWINGS SHALL NOT BE CONSTRUED TO RELIEVE RESPONSIBILITY OR IMPLY VARIANCE TO SUCH CODES.

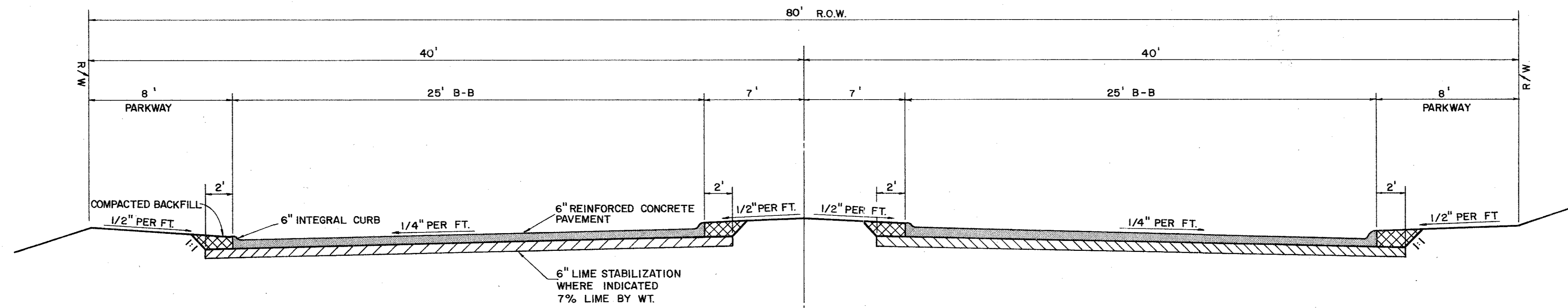
QUORUM NORTH

ADDISON, TEXAS

DAON CORPORATION: DEVELOPER

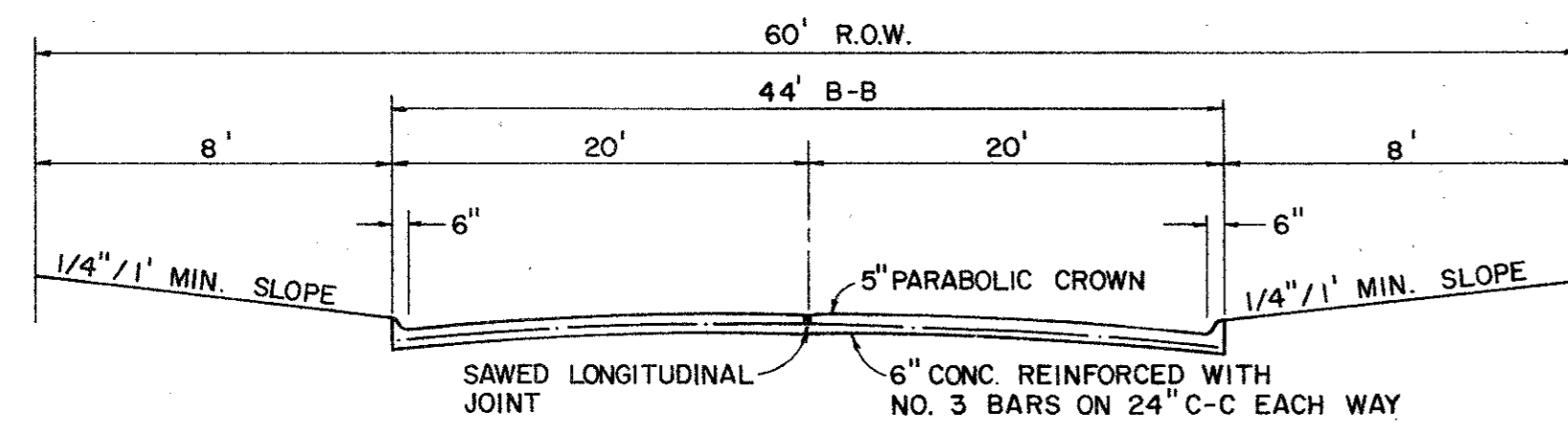
Hellmuth, Obata & Kassabaum, Inc.
 Architects, Engineers, Planners
 Graham Associates, Inc.
 Consulting Engineers & Planners



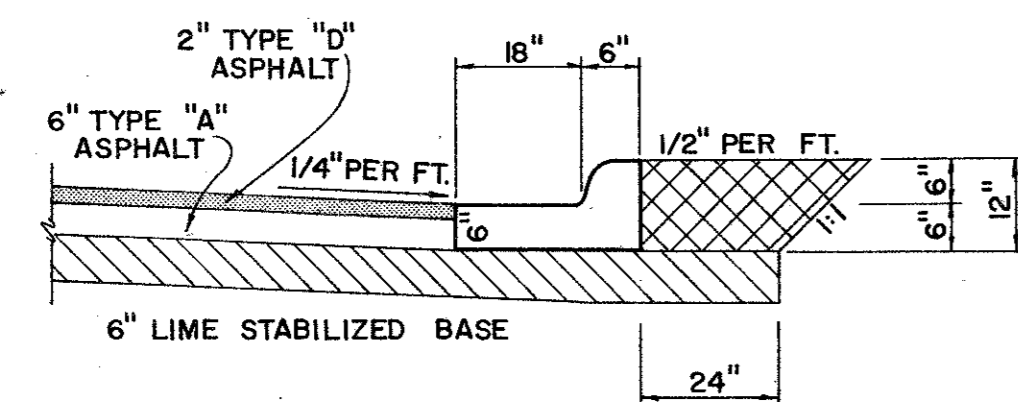


TYPICAL PAVING SECTION FOR QUORUM LOOP NORTH

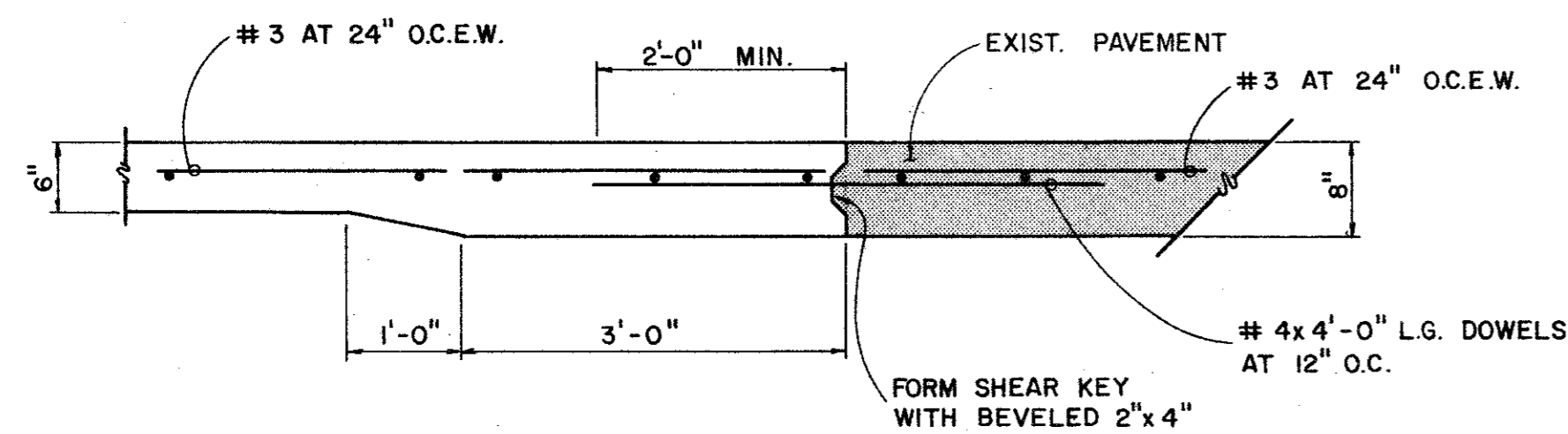
NOTE: CONCRETE SHALL BE 3,000 P.S.I. AT 28 DAYS. LIME SHALL BE SLURRY MIXED PRIOR TO APPLICATION REINFORCING SHALL BE NO. 3 AT 24" O.C.E.W.



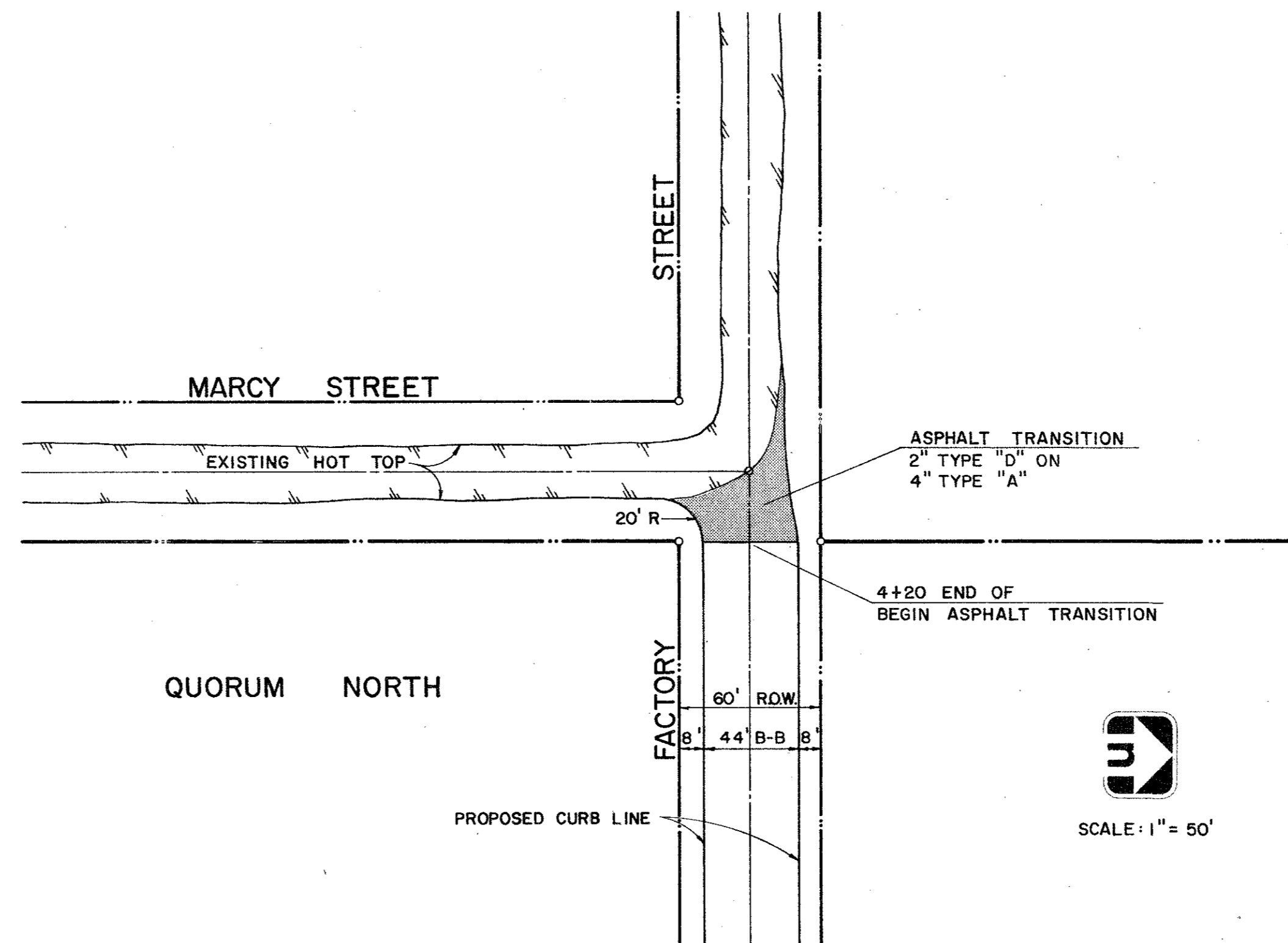
TYPICAL STREET SECTION FACTORY STREET (N.T.S.)



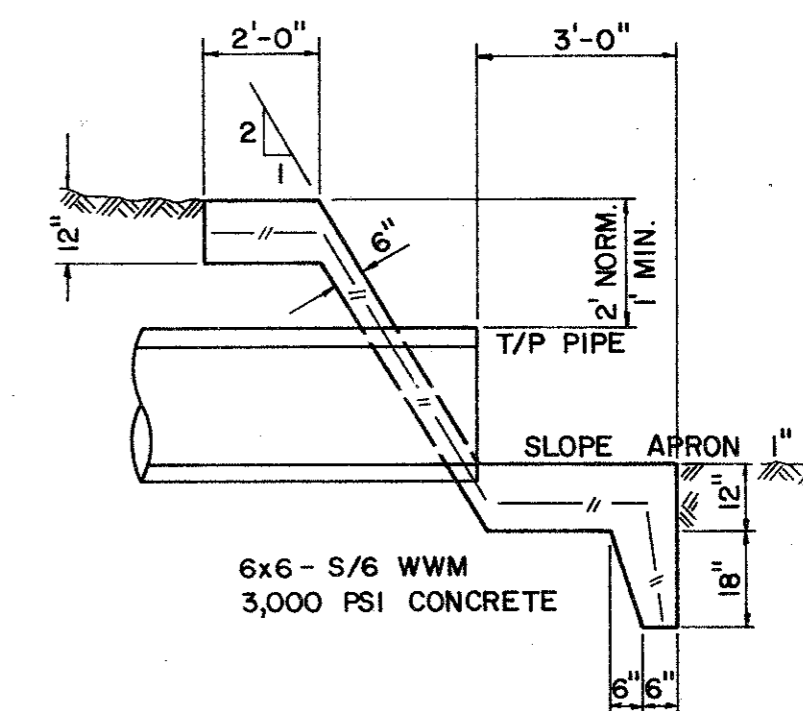
ALTERNATE ASPHALT PAVEMENT SECTION



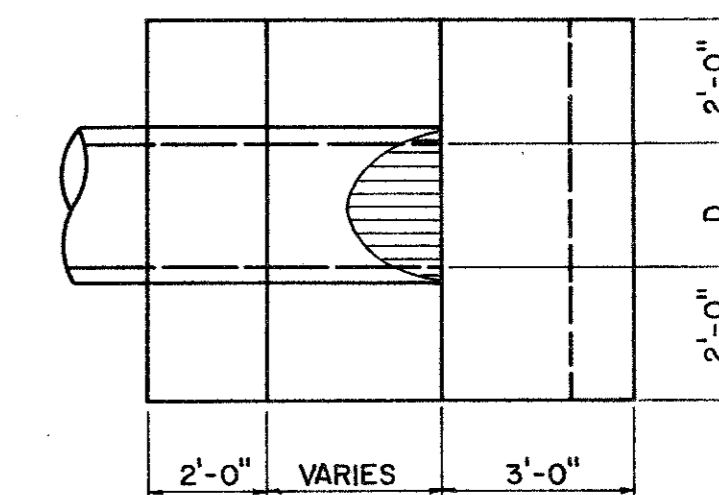
CONCRETE SECTION AT DALLAS PARKWAY TIE - INS



DETAIL OF ASPHALT TRANSITION FACTORY STREET AT MARCY STREET



SECTION

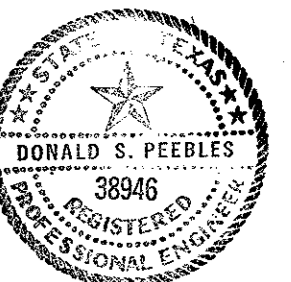


PLAN

TYPE "G" HEADWALL



SCALE: 1" = 50'



PAVING & DRAINAGE DETAILS

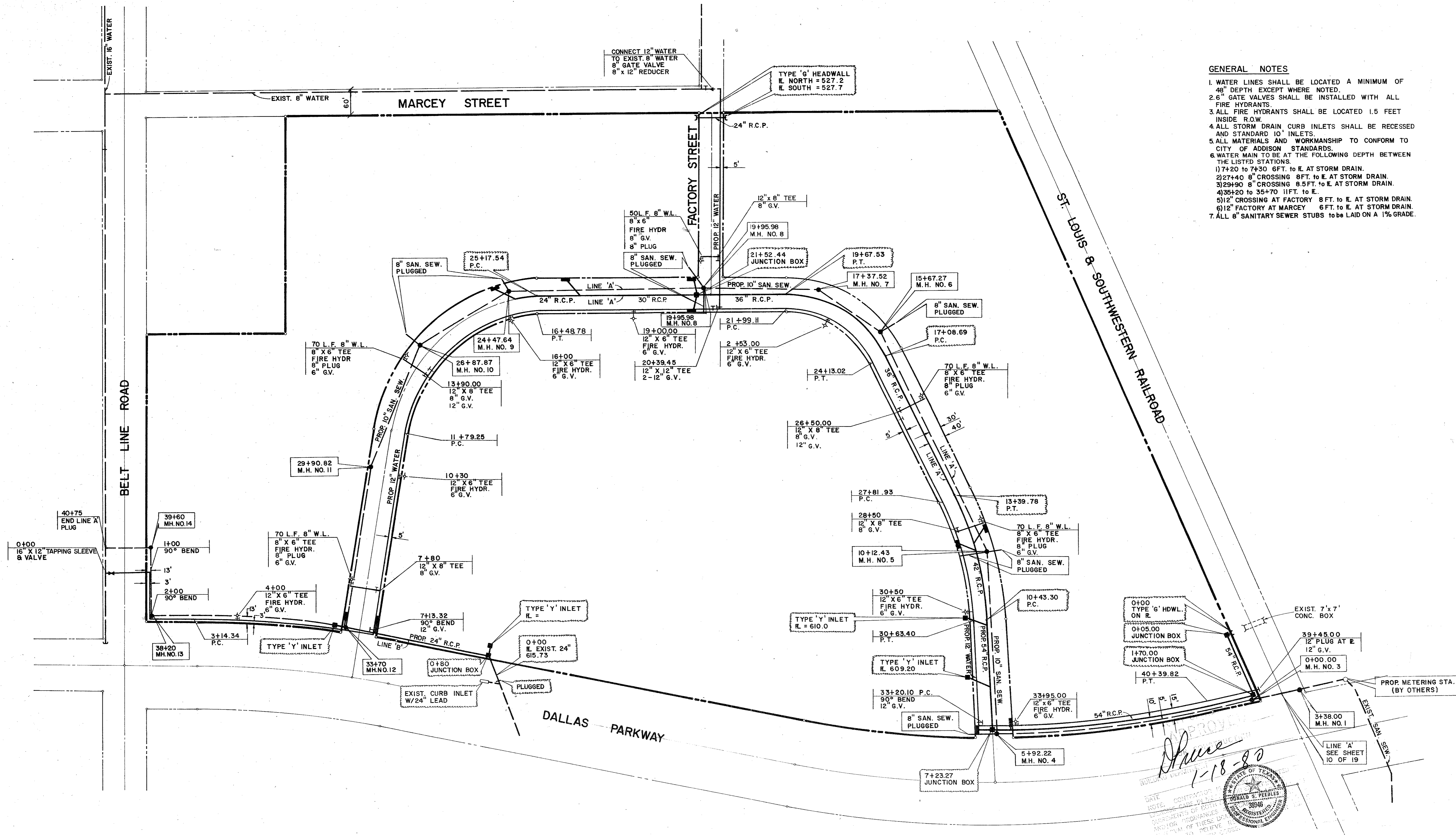
QUORUM NORTH
CITY OF ADDISON, TEXAS

Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

Drawn By: G.A.I. Sheet 13 Of 19

Date
9-79
File
314-1441

- GENERAL NOTES**
1. WATER LINES SHALL BE LOCATED A MINIMUM OF 48" DEPTH EXCEPT WHERE NOTED.
 2. 6" GATE VALVES SHALL BE INSTALLED WITH ALL FIRE HYDRANTS.
 3. ALL FIRE HYDRANTS SHALL BE LOCATED 1.5 FEET INSIDE R.O.W.
 4. ALL STORM DRAIN CURB INLETS SHALL BE RECESSED AND STANDARD 10" INLETS.
 5. ALL MATERIALS AND WORKMANSHIP TO CONFORM TO CITY OF ADDISON STANDARDS.
 6. WATER MAIN TO BE AT THE FOLLOWING DEPTH BETWEEN THE LISTED STATIONS.
 - 1) 7+20 TO 7+30 6FT. TO E. AT STORM DRAIN.
 - 2) 27+40 8" CROSSING 8 FT. TO E. AT STORM DRAIN.
 - 3) 29+90 8" CROSSING 8.5 FT. TO E. AT STORM DRAIN.
 - 4) 35+20 TO 35+70 11 FT. TO E.
 - 5) 12" CROSSING AT FACTORY 8 FT. TO E. AT STORM DRAIN.
 - 6) 12" CROSSING AT FACTORY 8 FT. TO E. AT STORM DRAIN.
 7. ALL 8" SANITARY SEWER STUBS TO BE LAID ON A 1% GRADE.



Shane
1-18-80

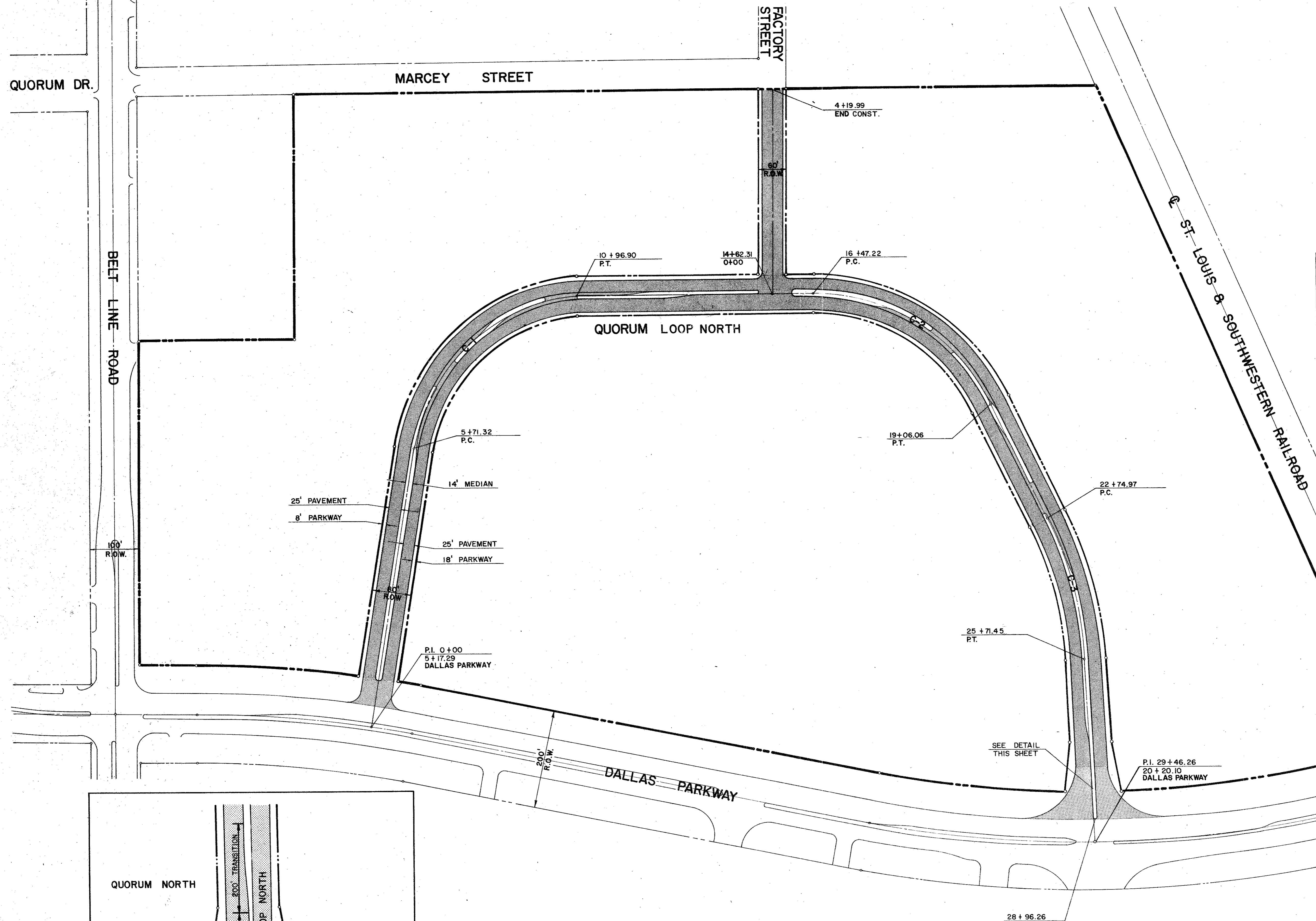
DATE: 1-18-80
 CONTRACTOR: DONALD S. PEEBLES
 REGISTERED PROFESSIONAL ENGINEER
 NO. 38946
 STATE OF TEXAS

UTILITY SITE PLAN
 QUORUM NORTH
 CITY OF ADDISON, TEXAS



SCALE 1"=100'

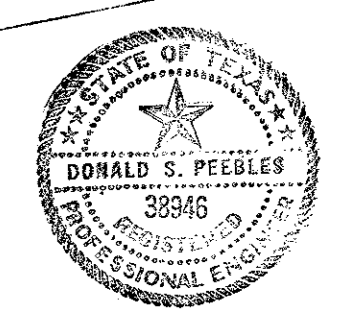
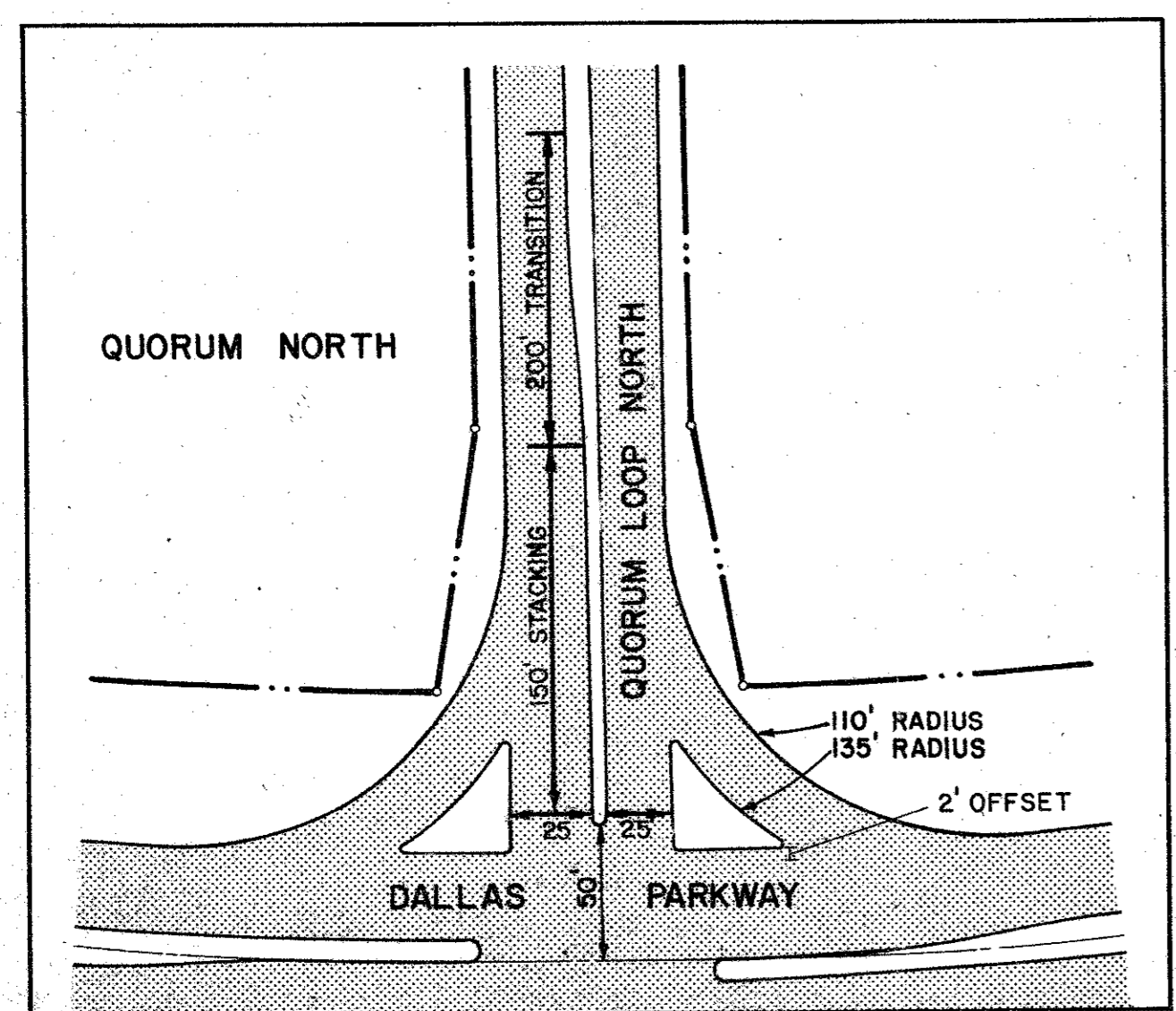
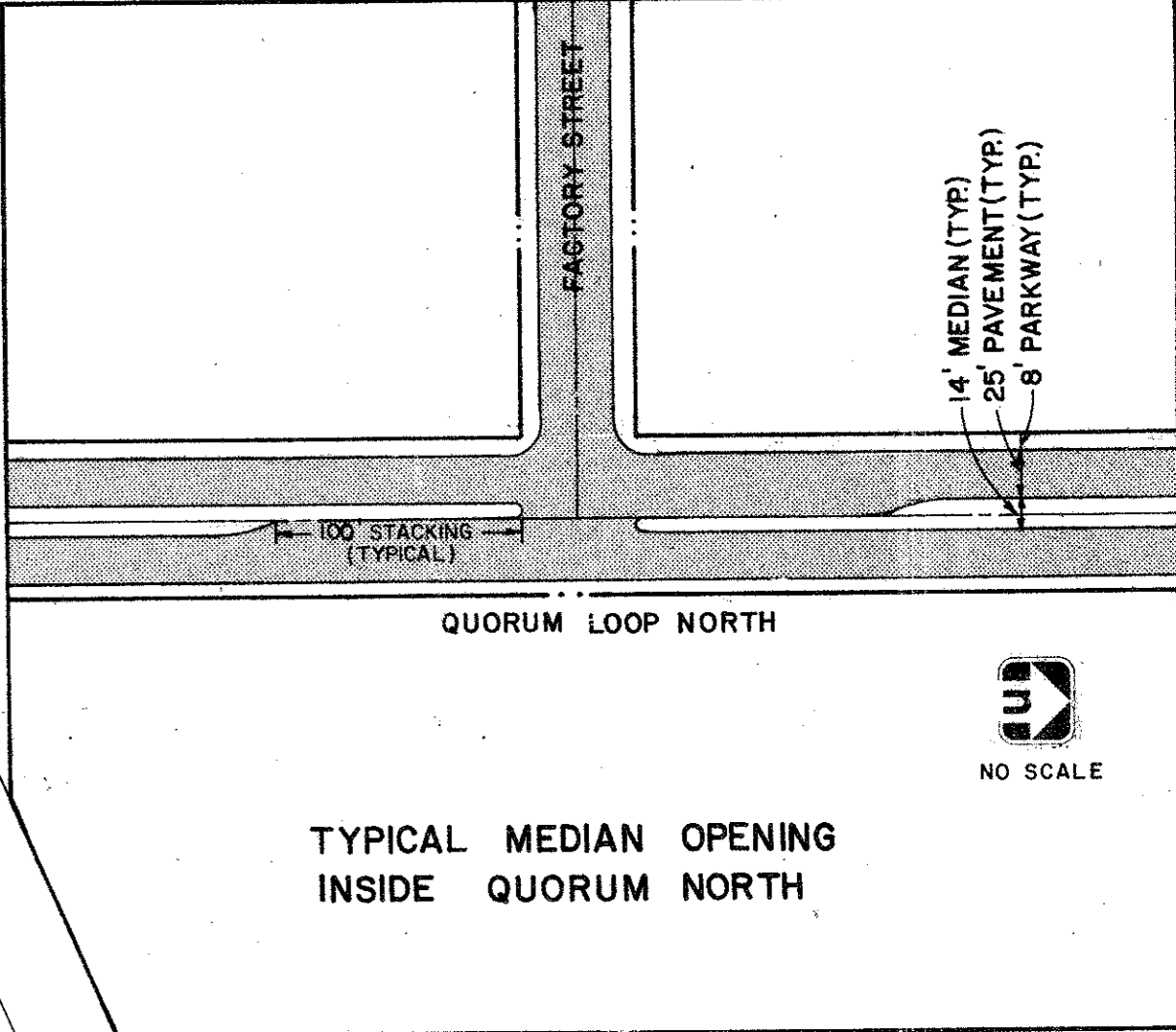
Graham Associates, Inc.
 CONSULTING ENGINEERS & PLANNERS



☺ CURVE DATA

C-1 $\Delta = 80^\circ 15' 39''$	C-2 $\Delta = 64^\circ 21' 46''$
R = 375.19'	R = 230.42'
T = 316.28'	T = 145.00'
L = 525.58'	L = 258.84'
L.C. = 463.65'	L.C. = 245.45'

C-3 $\Delta = 21^\circ 28' 35''$
R = 790.96'
T = 150.00'
L = 296.48'
L.C. = 294.75'



PAVING PLAN - QUORUM LOOP NORTH
QUORUM NORTH
 CITY OF ADDISON, TEXAS

Graham Associates, Inc. CONSULTING ENGINEERS & PLANNERS	Date	9-20-79
	File	314-1441
Drawn By: G.A.I.	Sheet 3 Of 19	

QUORUM DR.

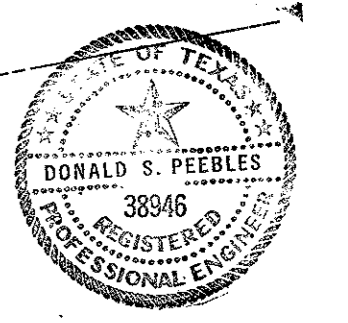
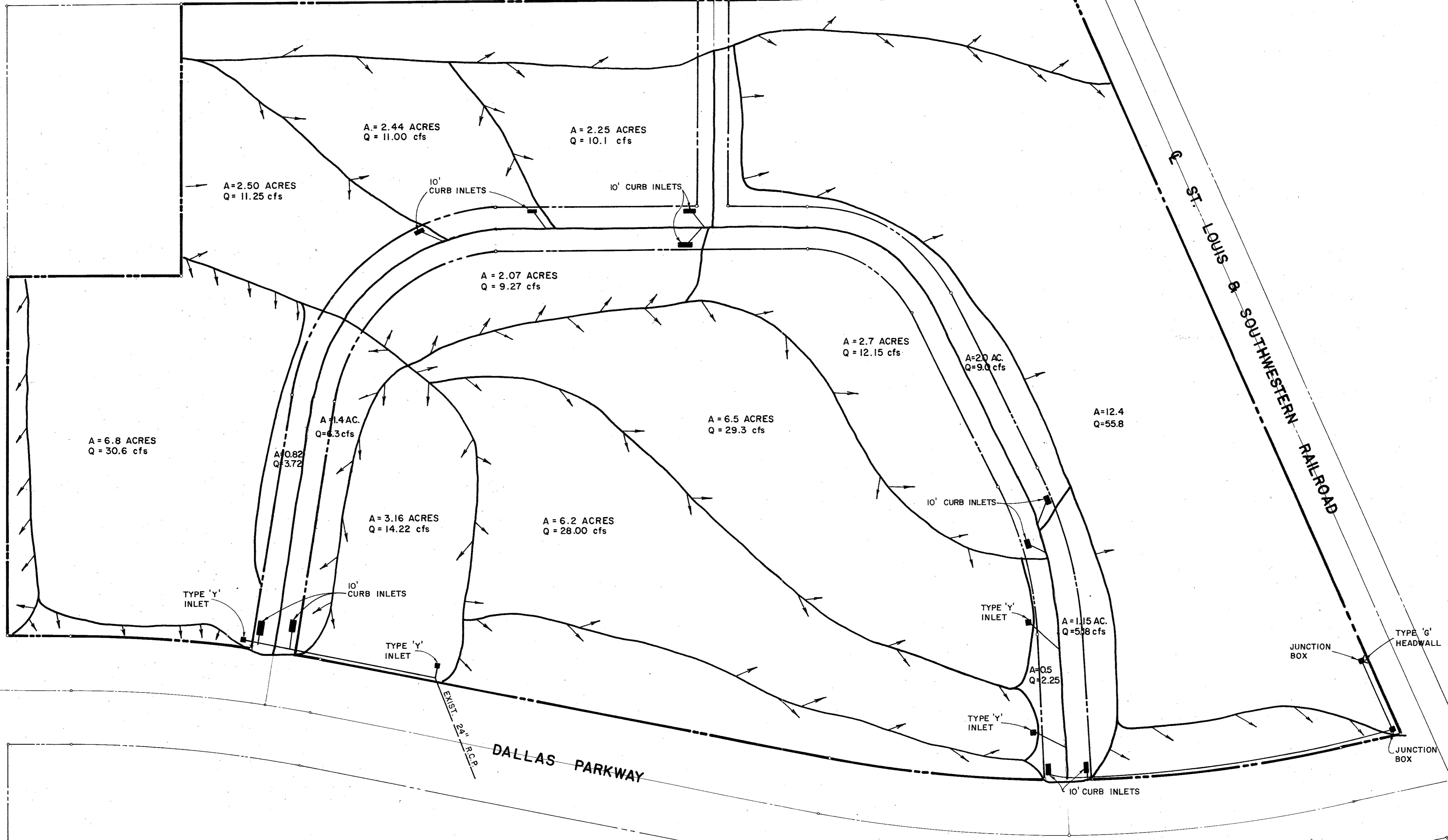
MARCEY ST.

FACTORY STREET

BELT LINE ROAD

ST. LOUIS & SOUTHWESTERN RAILROAD

DALLAS PARKWAY



SCALE: 1"=100'

DRAINAGE PLAN

QUORUM NORTH
CITY OF ADDISON, TEXAS

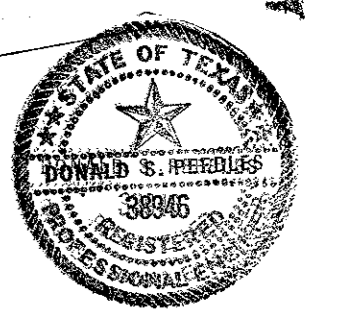
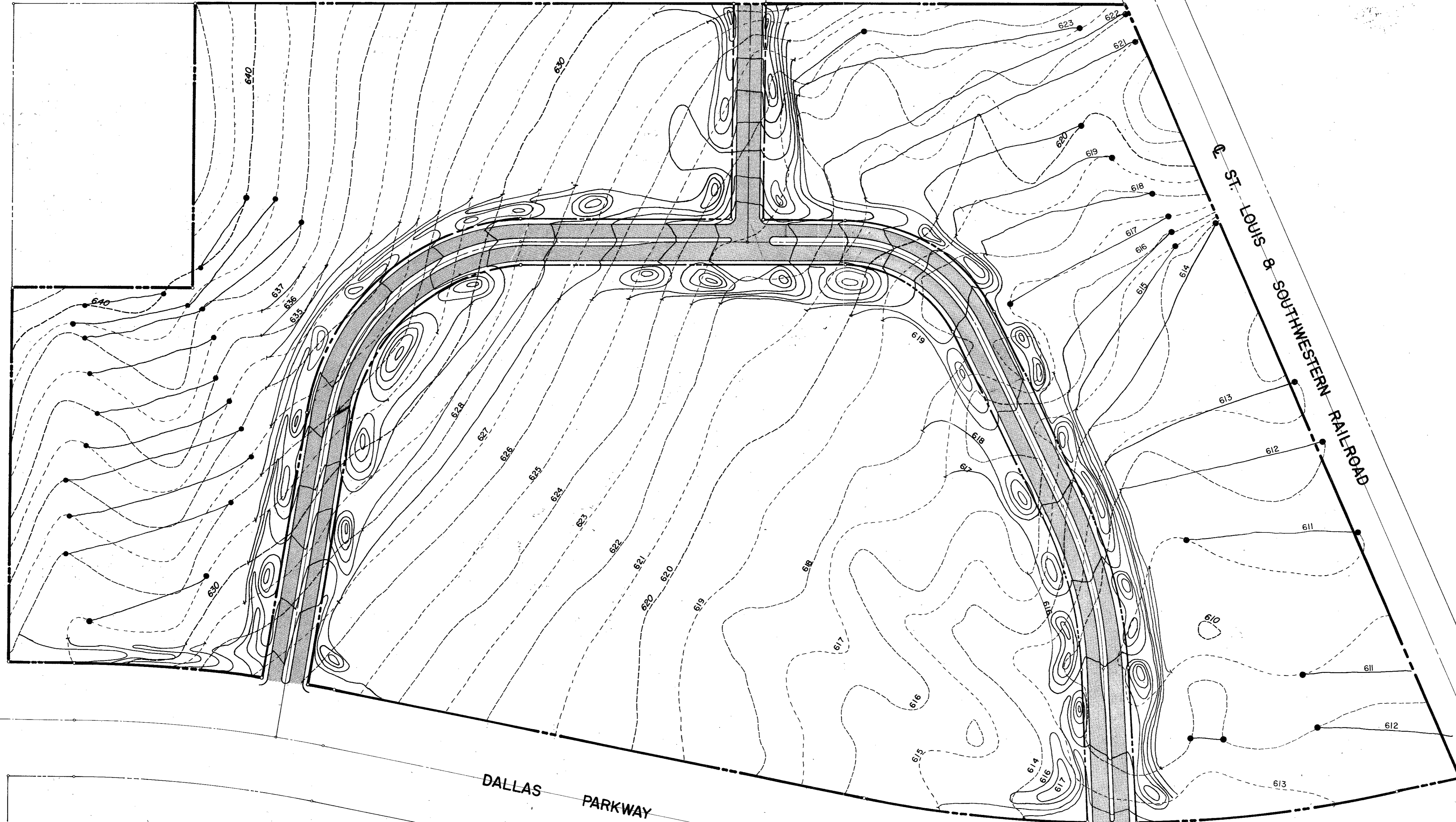
Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

BELT LINE ROAD

MARCY STREET

ST. LOUIS & SOUTHWESTERN RAILROAD


DALLAS PARKWAY



GRADING PLAN

GRADING PLAN

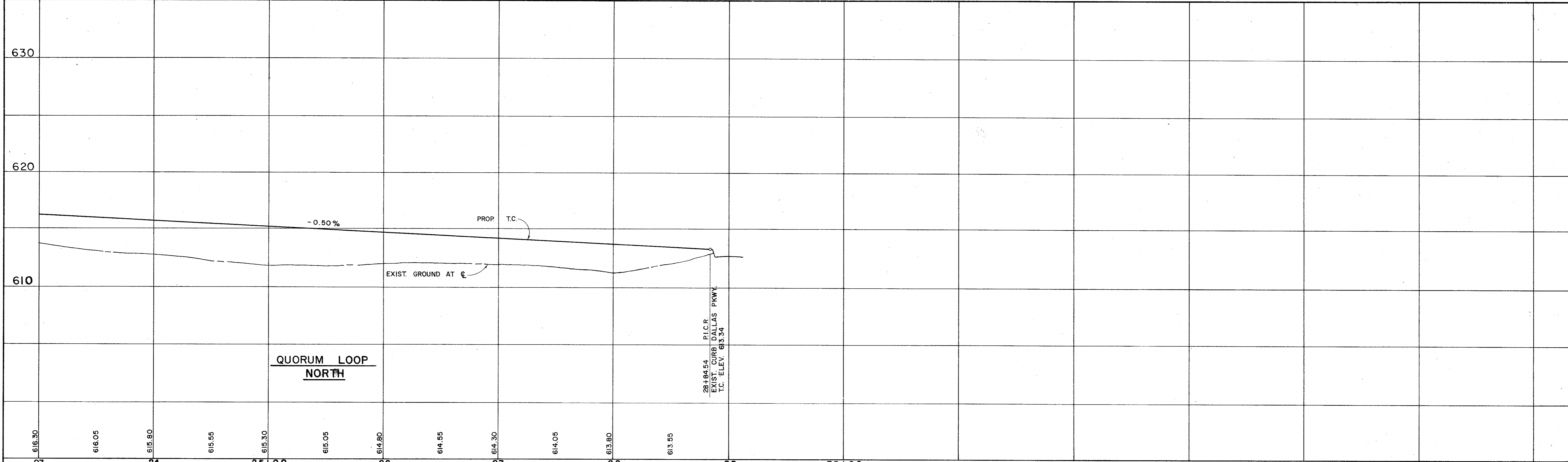
QUORUM NORTH
ADDISON, TEXAS



Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

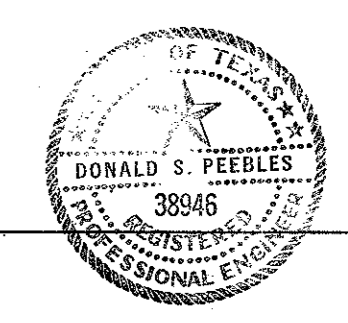
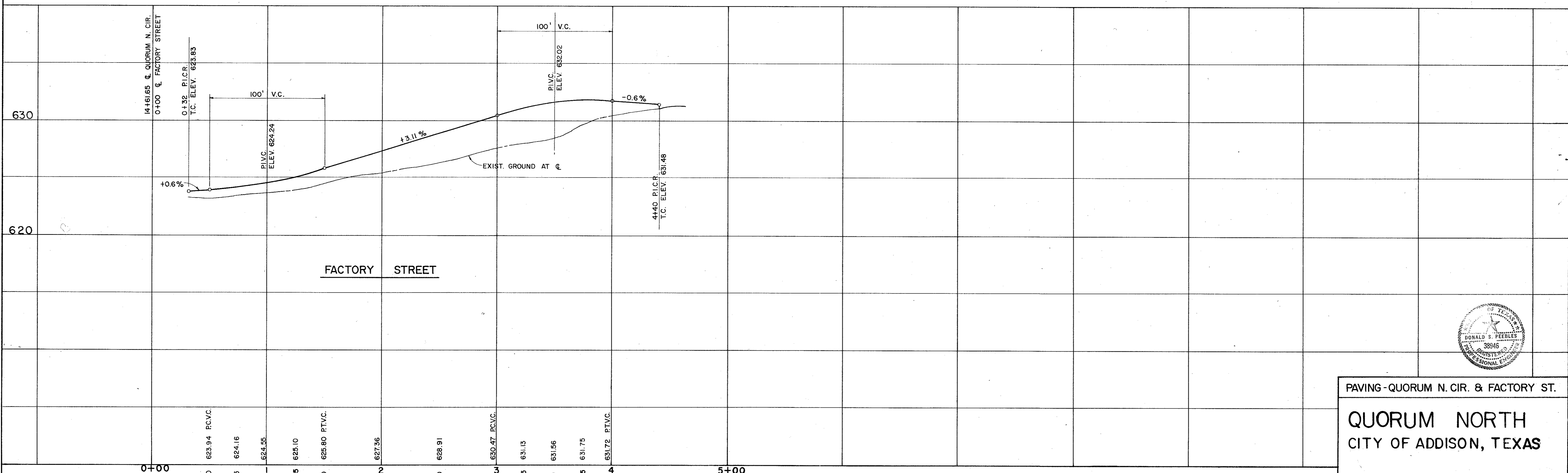
314-1441
9/20/79

DRAWN BY- G.A.I. PAGE 5 of 19

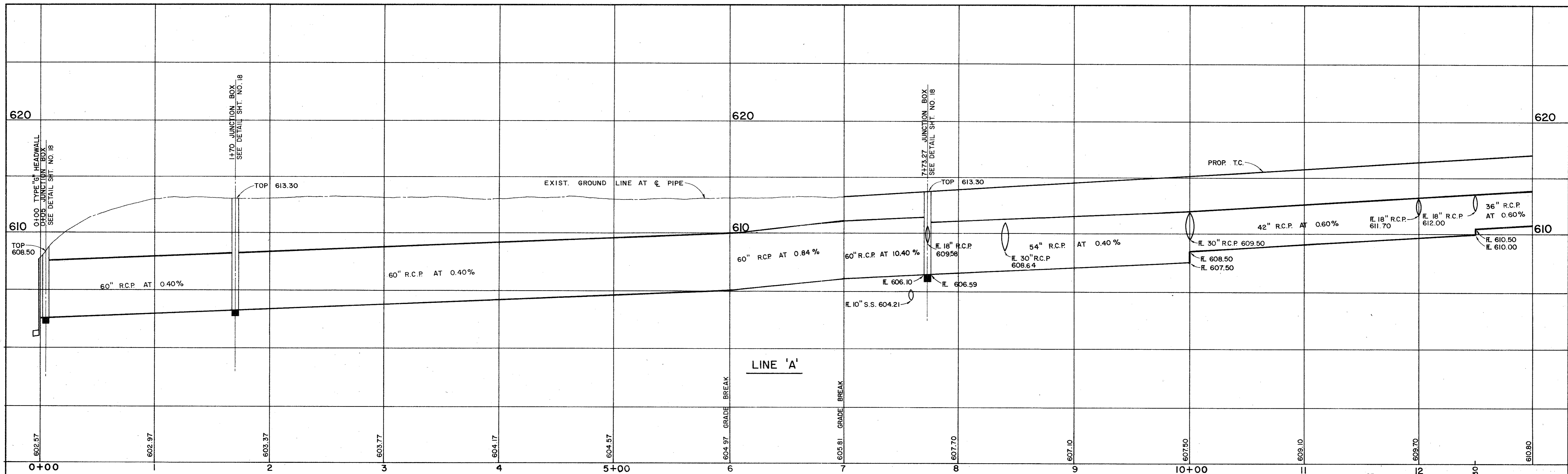


SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

BENCHMARKS:
" \square " ON NOSE ISLAND SOUTH SIDE BELT LINE AT DALLAS PARKWAY ELEVATION 630.77
WATER DEPARTMENT BENCHMARK ON INLET ON NORTH-WEST CORNER OF DALLAS PARKWAY & BELT LINE ROAD ELEVATION 632.10

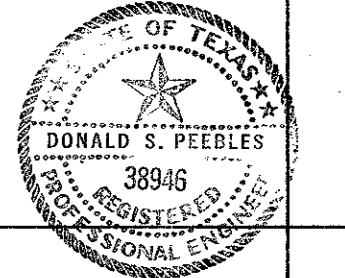
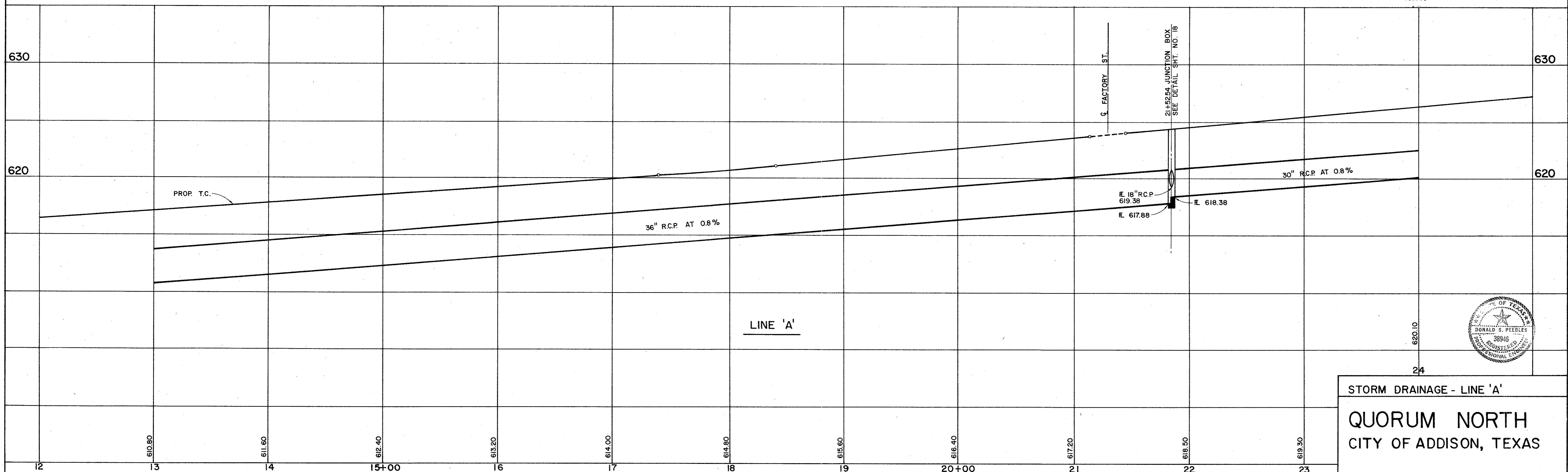


PAVING - QUORUM N. CIR. & FACTORY ST.
QUORUM NORTH
CITY OF ADDISON, TEXAS

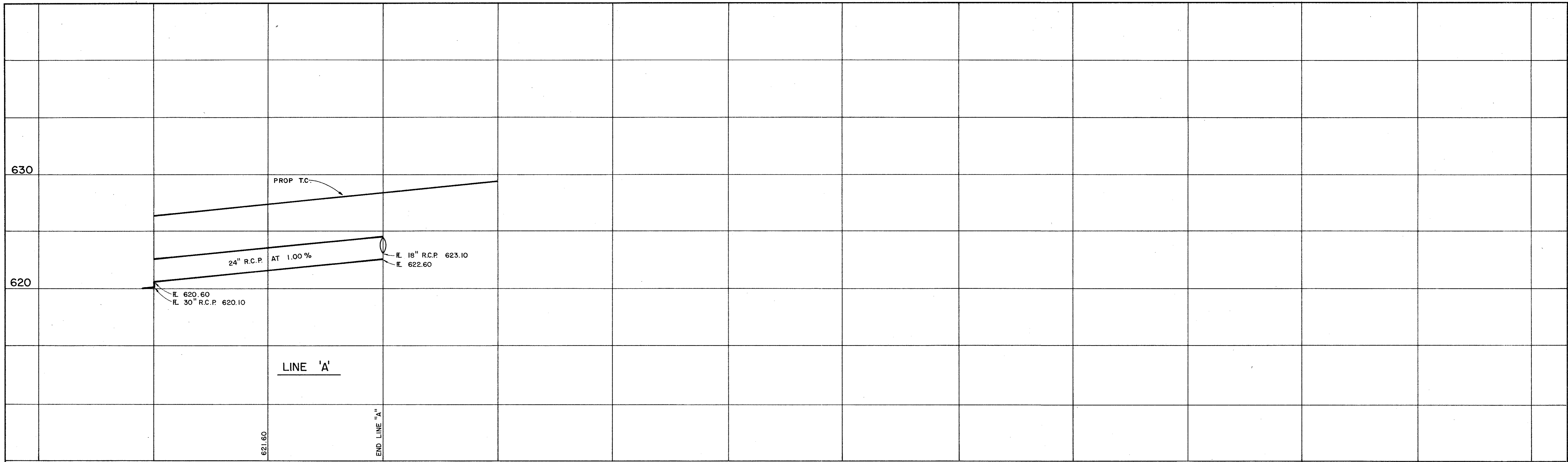


SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

BENCHMARKS:
 " □ " ON NOSE ISLAND SOUTH SIDE BELT LINE
 AT DALLAS PARKWAY ELEVATION 630.77
 WATER DEPARTMENT BENCHMARK ON INLET ON NORTH-
 WEST CORNER OF DALLAS PARKWAY & BELT LINE ROAD
 ELEVATION 632.10



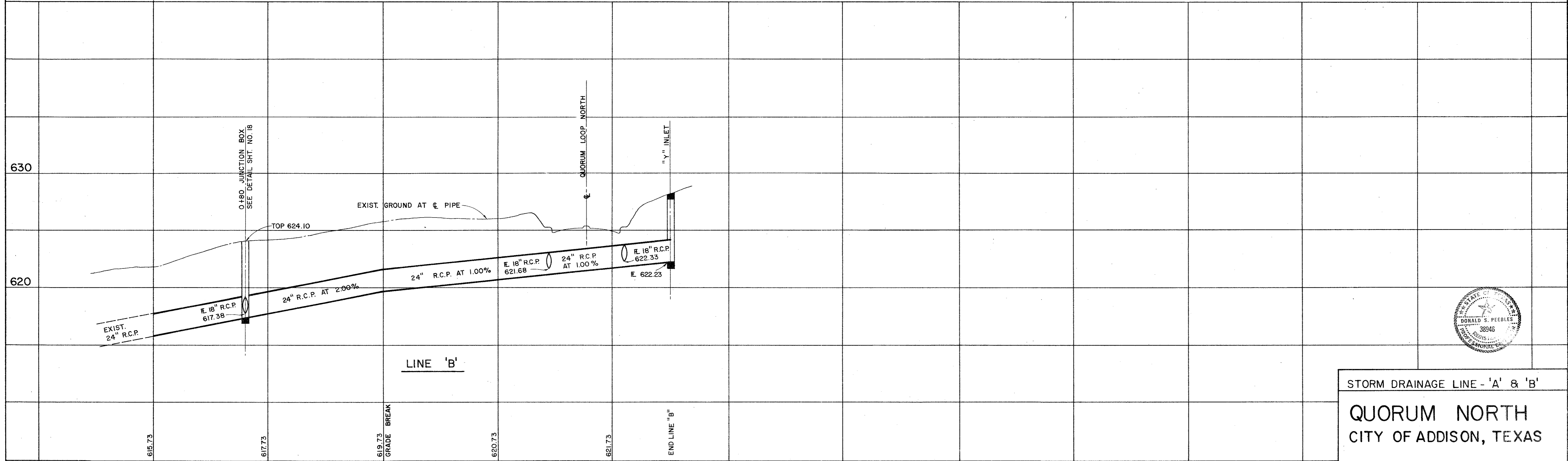
24
 STORM DRAINAGE - LINE 'A'
 QUORUM NORTH
 CITY OF ADDISON, TEXAS



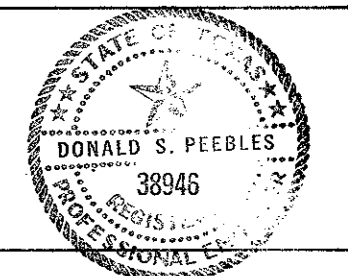
24 25+00 26

SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

BENCHMARKS:
" □ " ON NOSE ISLAND SOUTH SIDE BELT LINE
AT DALLAS PARKWAY ELEVATION 630.77
WATER DEPARTMENT BENCHMARK ON INLET ON NORTH-
WEST CORNER OF DALLAS PARKWAY & BELT LINE ROAD
ELEVATION 632.10



0+00 1 2 3 4 5+00
615.73 617.73 619.73 620.73 621.73



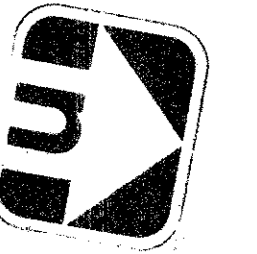
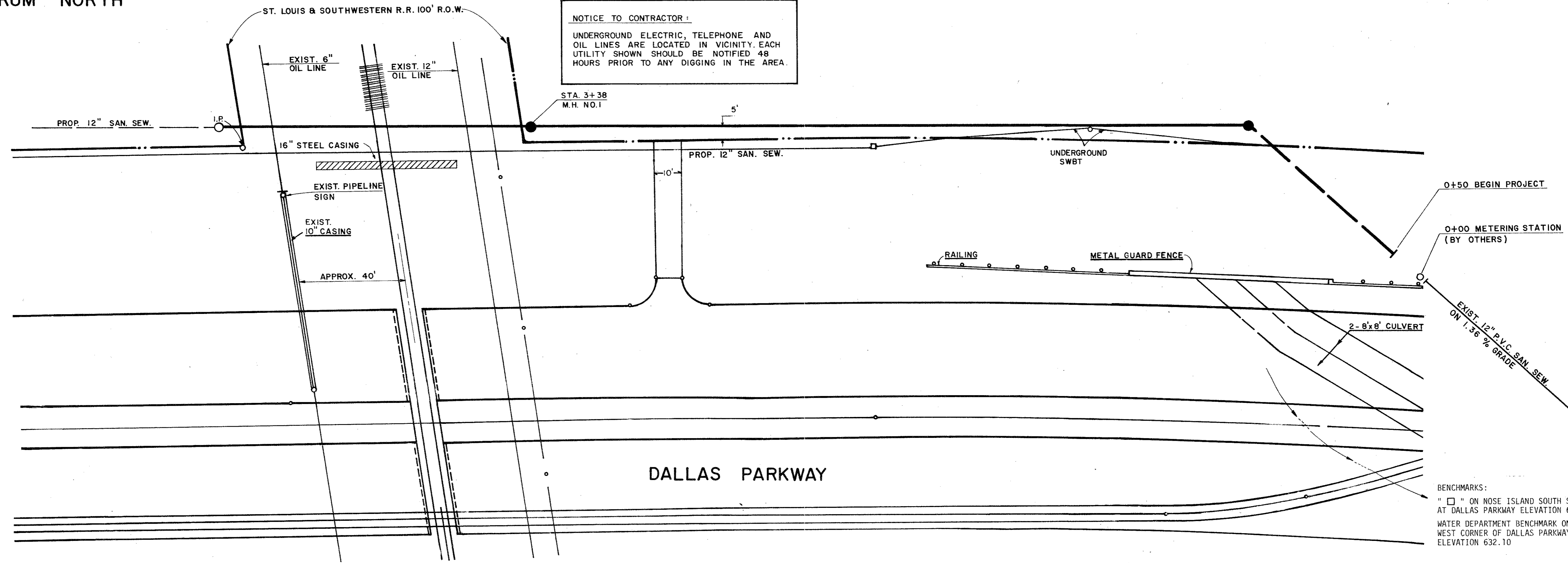
STORM DRAINAGE LINE - 'A' & 'B'
QUORUM NORTH
CITY OF ADDISON, TEXAS

Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

Drawn By: G.A.I. Sheet 9 Of 19

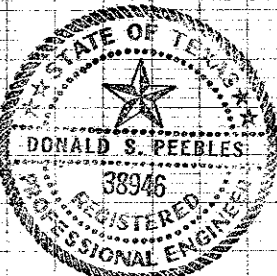
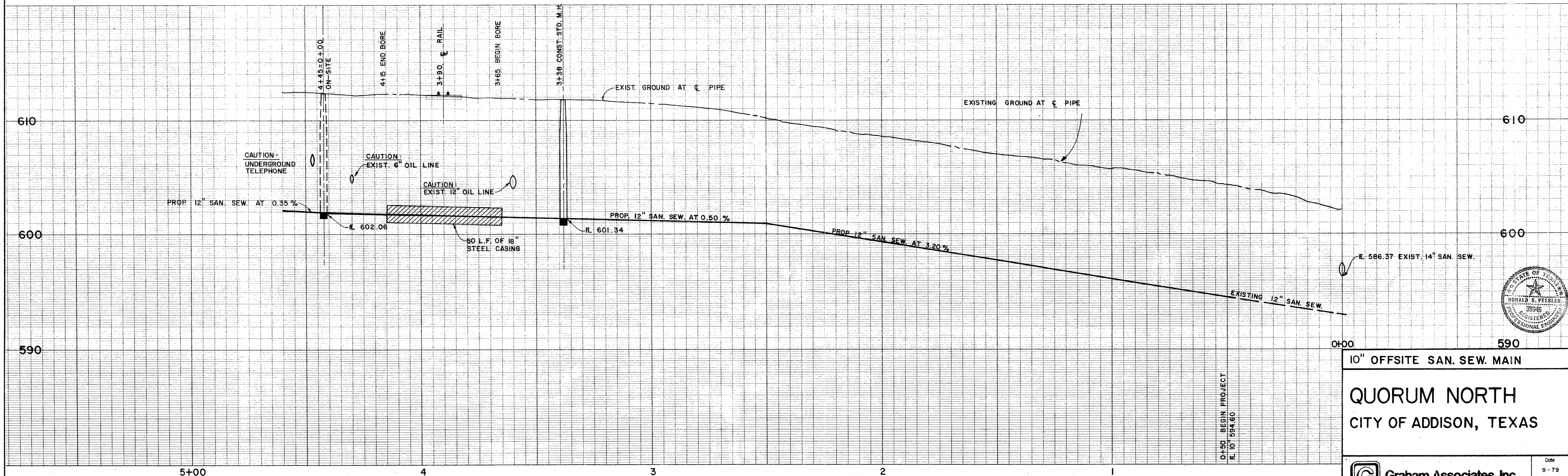
Date: 9-79
File: 314-1441

QUORUM NORTH



SCALE:
1" = 20' HORIZ.
1" = 4' VERT.

BENCHMARKS:
" □ " ON NOSE ISLAND SOUTH SIDE BELT LINE AT DALLAS PARKWAY ELEVATION 630.77
WATER DEPARTMENT BENCHMARK ON INLET ON NORTH-WEST CORNER OF DALLAS PARKWAY & BELT LINE ROAD ELEVATION 632.10



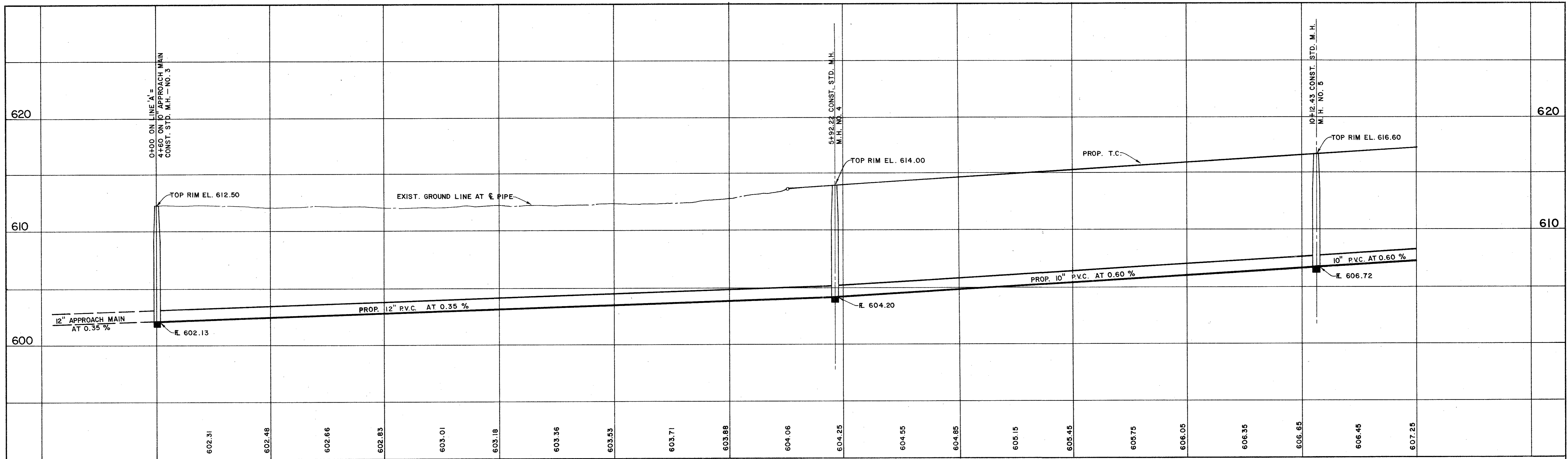
10" OFFSITE SAN. SEW. MAIN

QUORUM NORTH

CITY OF ADDISON, TEXAS

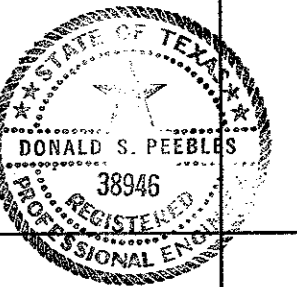
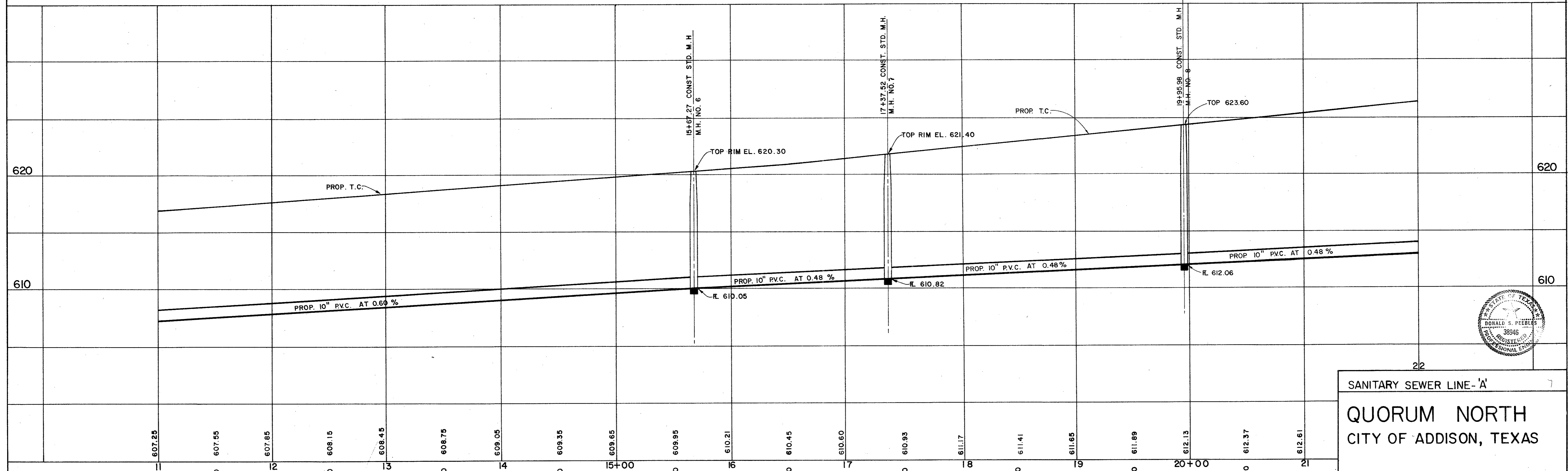
Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

Date: 9-79
File: 314-1441
Drawn By: D.A.L. Sheet 10 of 19



SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

BENCHMARKS:
 □ " ON NOSE ISLAND SOUTH SIDE BELT LINE
 AT DALLAS PARKWAY ELEVATION 630.77
 WATER DEPARTMENT BENCHMARK ON INLET OF NORTH-
 WEST CORNER OF DALLAS PARKWAY & BELT LINE ROAD
 ELEVATION 632.10



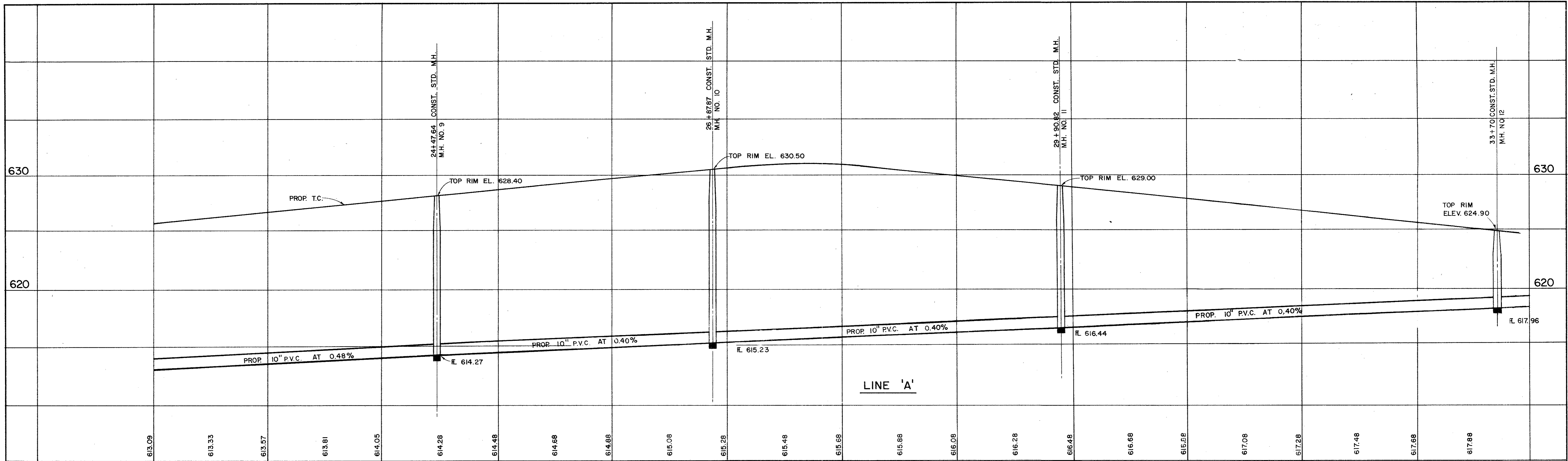
22

SANITARY SEWER LINE - 'A'

QUORUM NORTH
CITY OF ADDISON, TEXAS

G **Graham Associates, Inc.**
CONSULTING ENGINEERS & PLANNERS

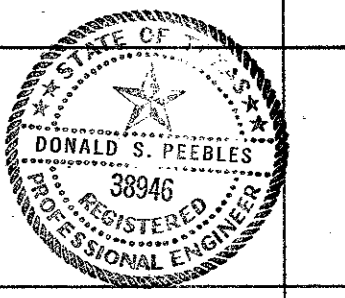
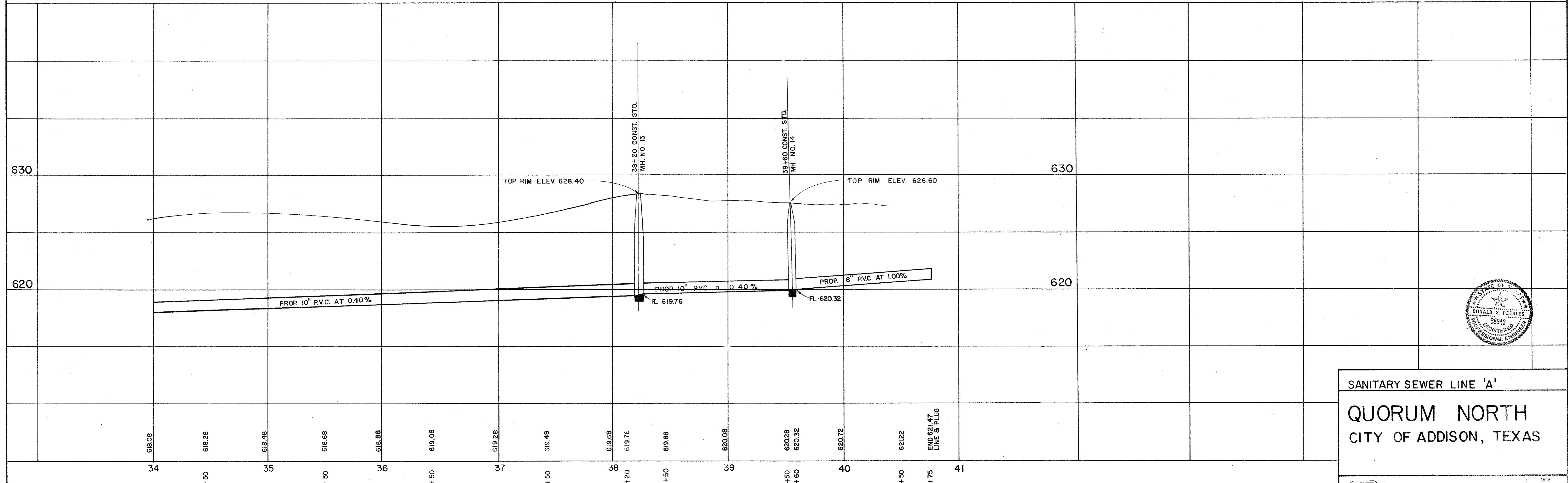
Date: 9-79
File: 314-1441
Drawn By: G. A. I. Sheet 11 Of 19



LINE 'A'

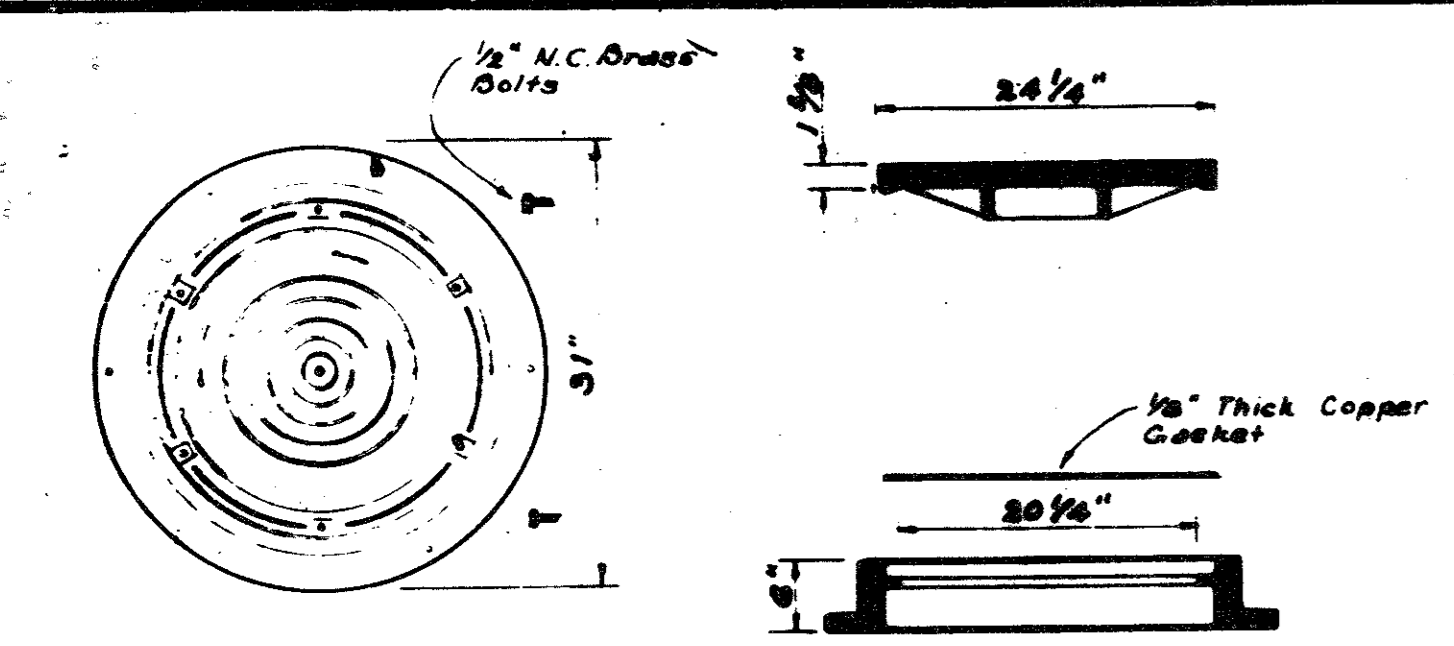
SCALE: HORIZ. 1" = 40'
VERT. 1" = 4'

BENCHMARKS:
" □ " ON NOSE ISLAND SOUTH SIDE BELT LINE AT DALLAS PARKWAY ELEVATION 630.77
WATER DEPARTMENT BENCHMARK ON INLET ON NORTH-WEST CORNER OF DALLAS PARKWAY & BELT LINE ROAD ELEVATION 632.10

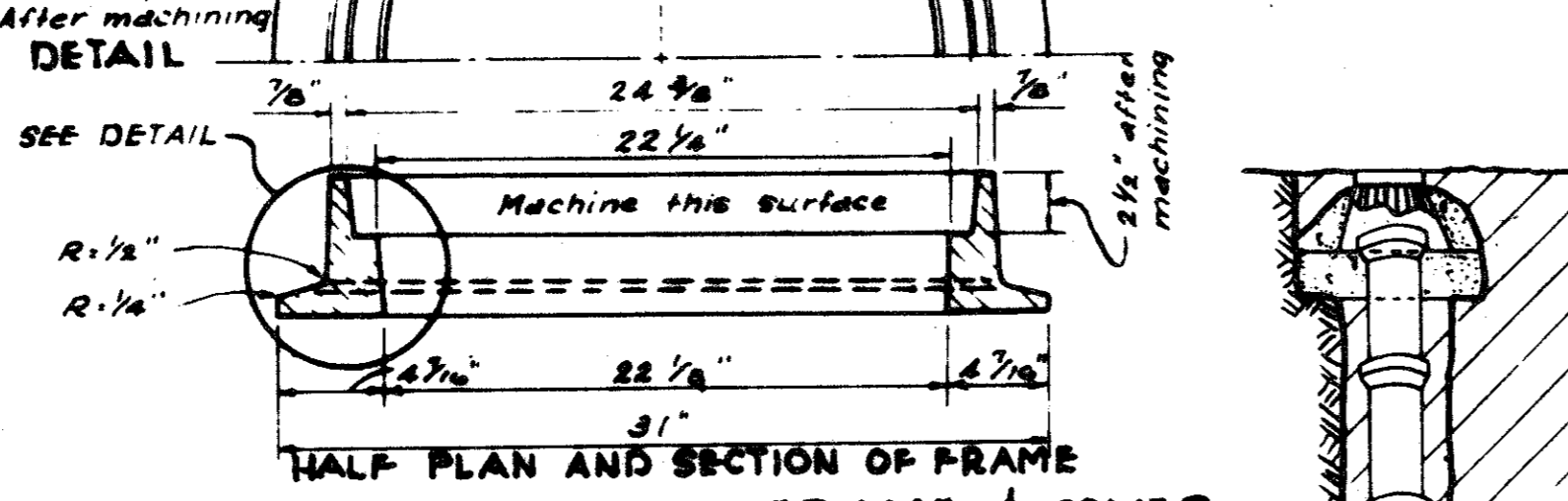
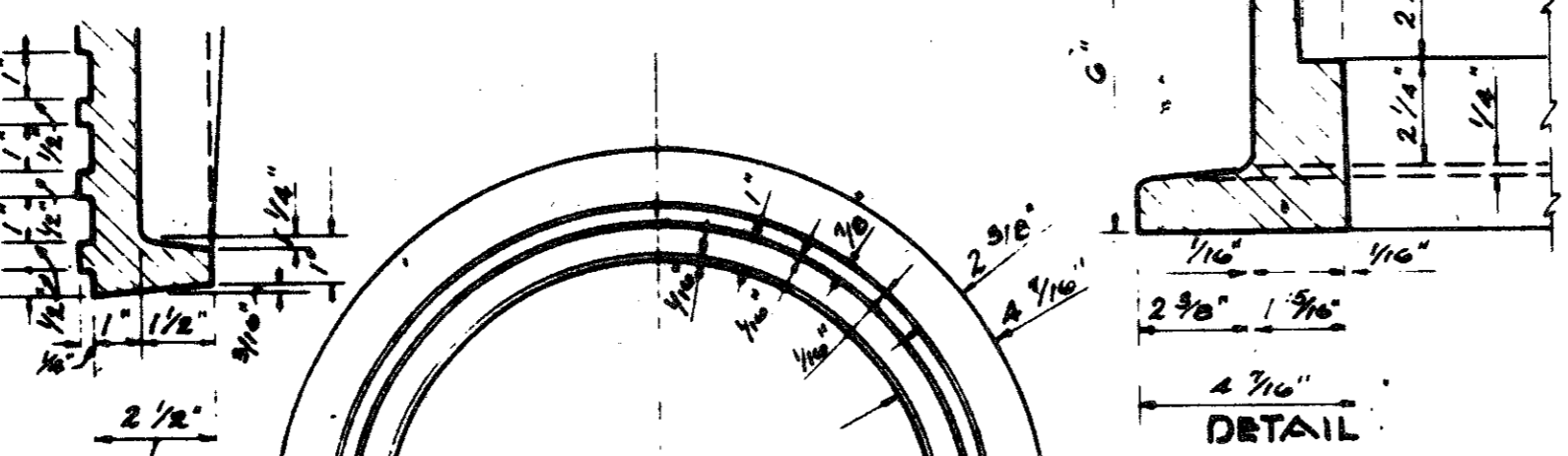
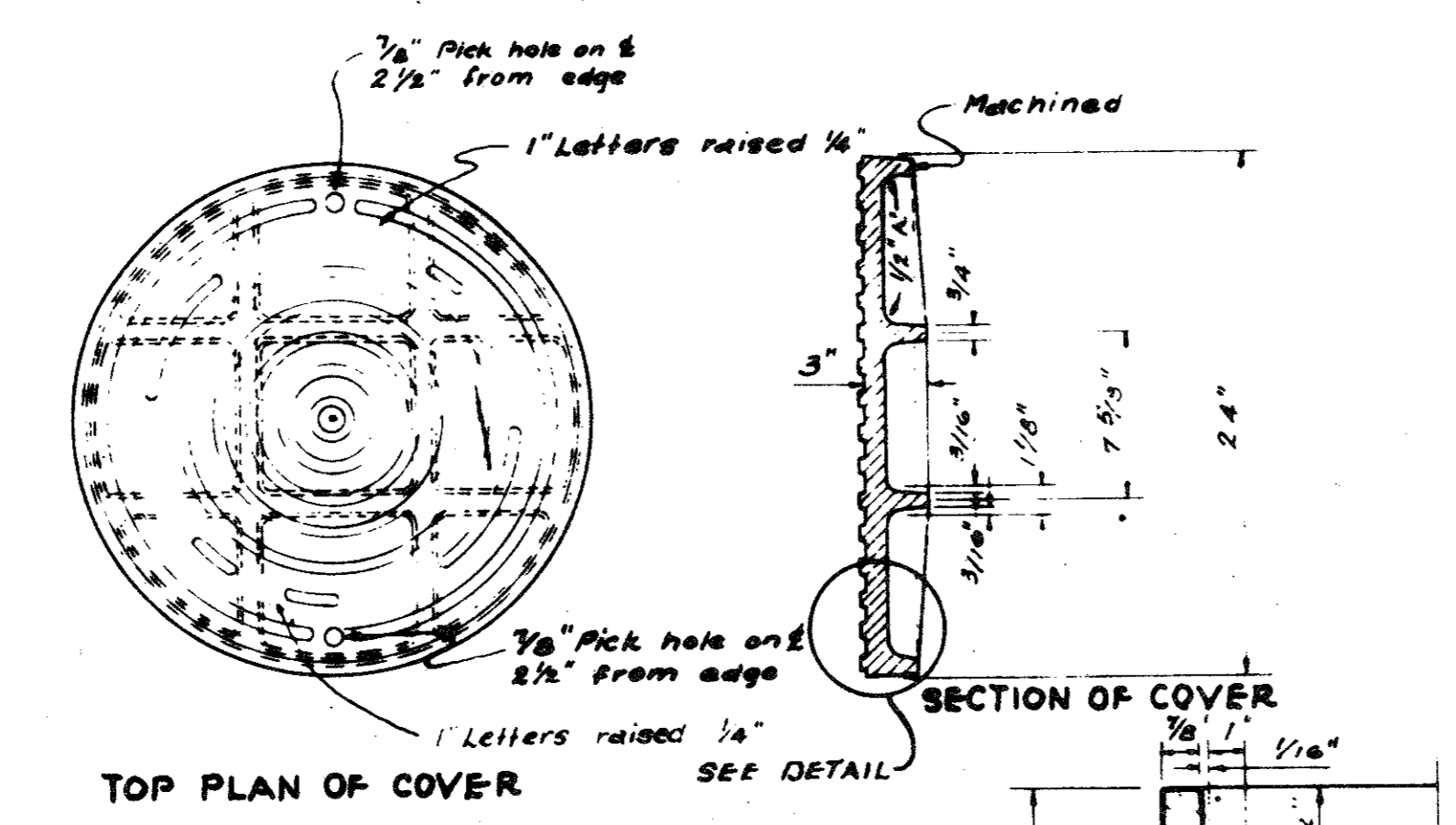


SANITARY SEWER LINE 'A'
QUORUM NORTH
CITY OF ADDISON, TEXAS

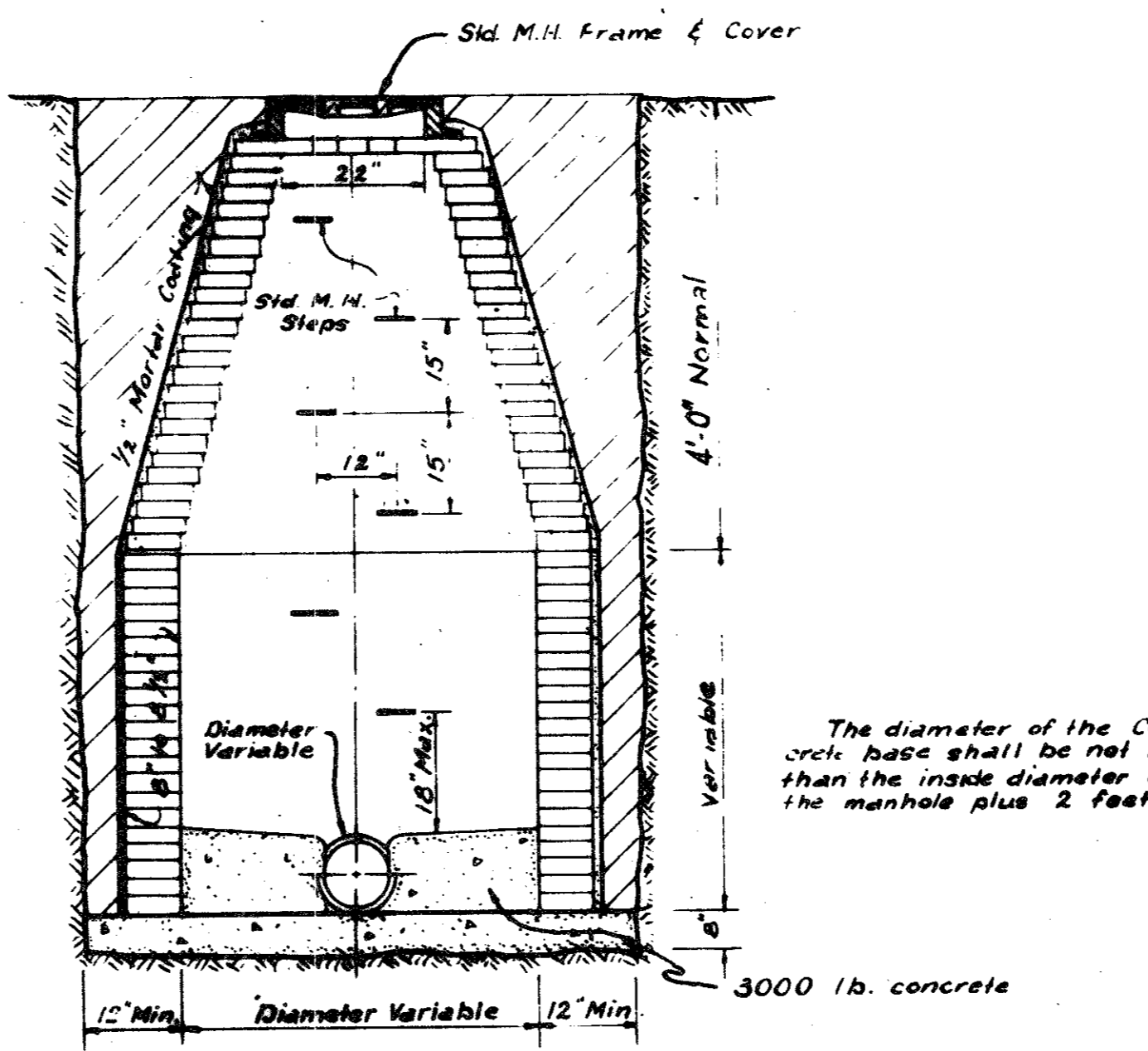
<p>Graham Associates, Inc. CONSULTING ENGINEERS & PLANNERS</p>	Date 9-79
	File 314-1441
Drawn By: G.A.I.	Sheet 12 of 19



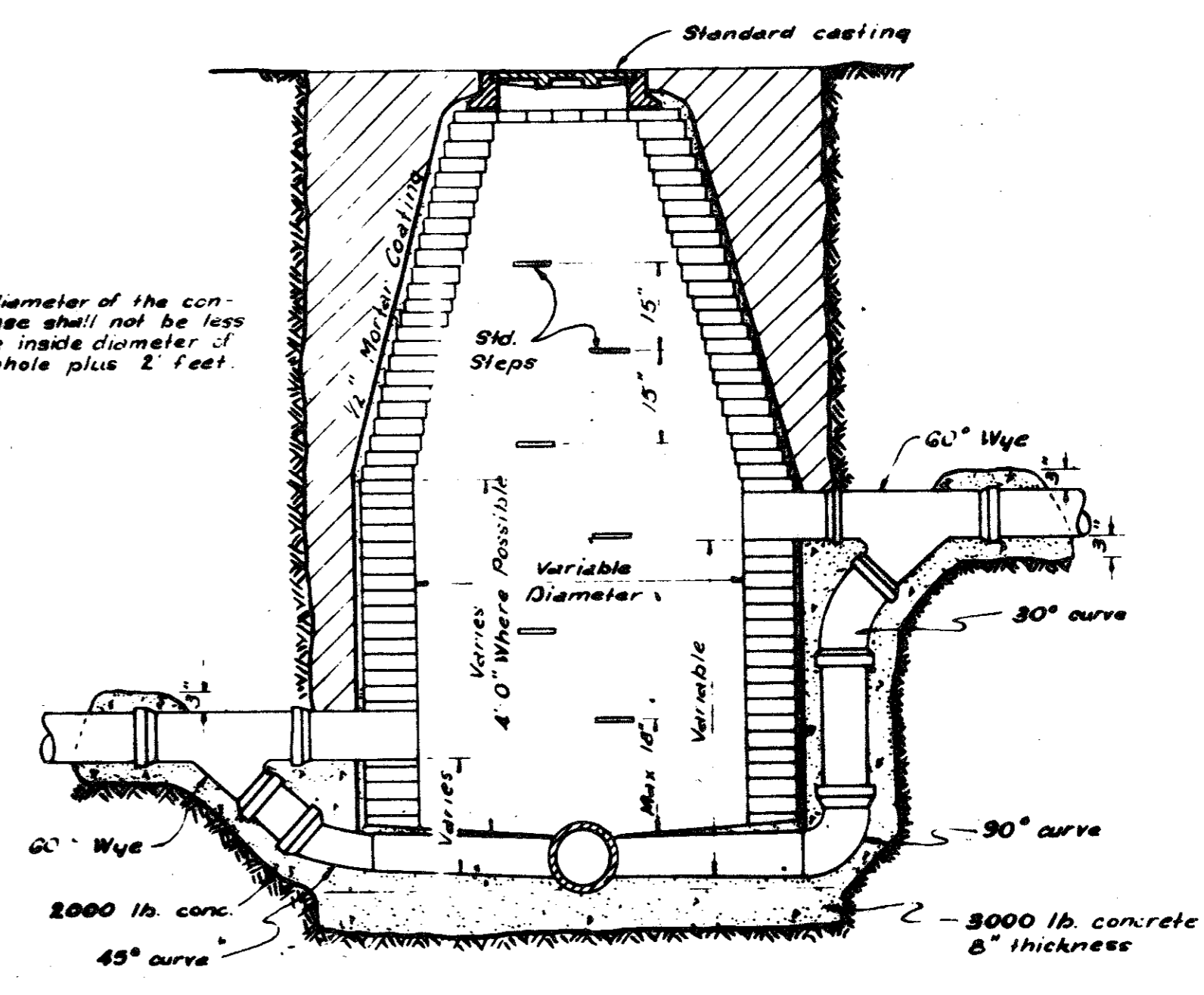
STANDARD WATER TIGHT - SOLID SEAL MANHOLE FRAME AND COVER
TO BE USED ON STANDARD MANHOLE
 As Manufactured by DALLAS FOUNDRY
 NC 975-2 or approved equal.
 Wgt 410 pounds.



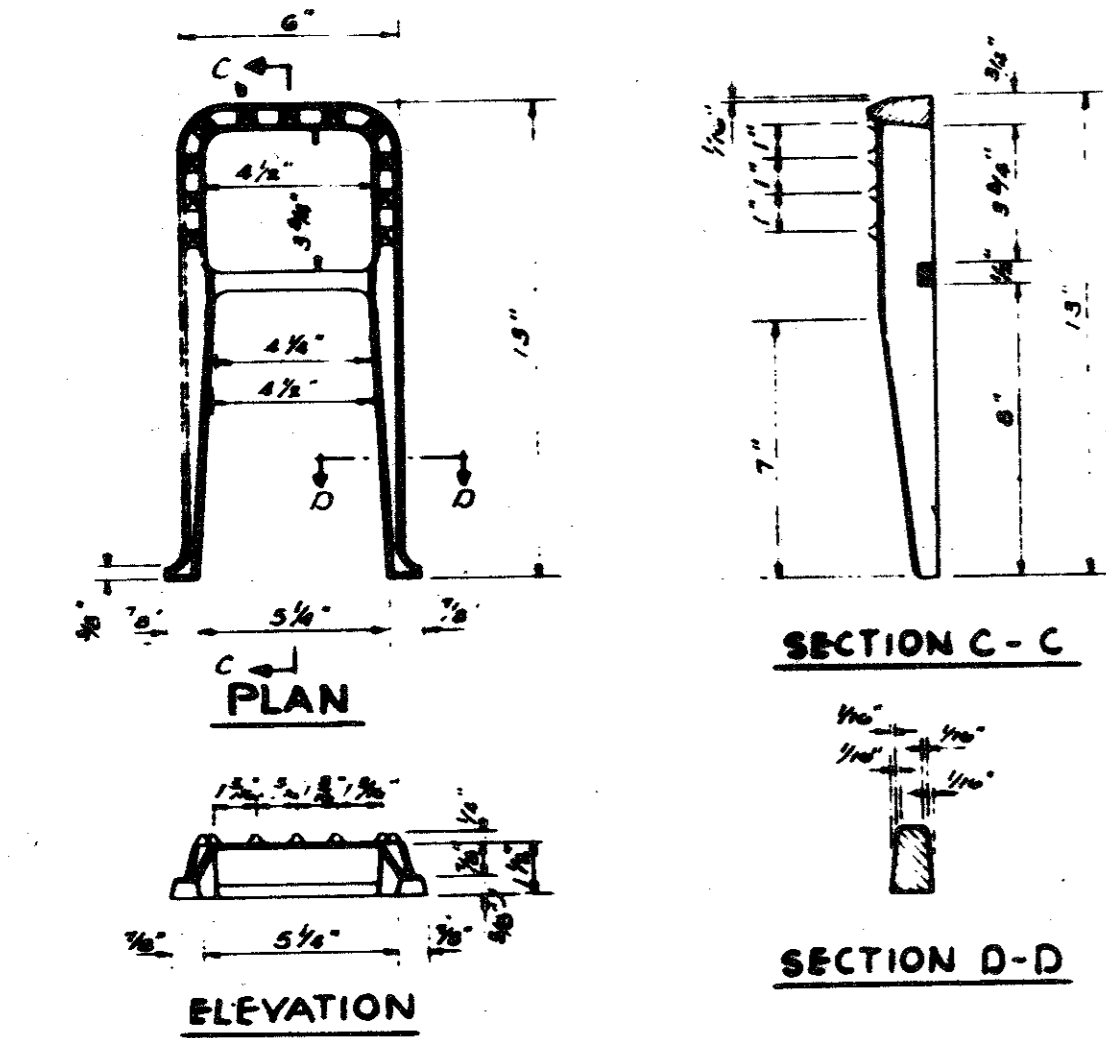
STANDARD C.I. MANHOLE FRAME & COVER
 As Manufactured by DALLAS FOUNDRY NO 100-8 or
 approved equal. Wgt 400 pounds.



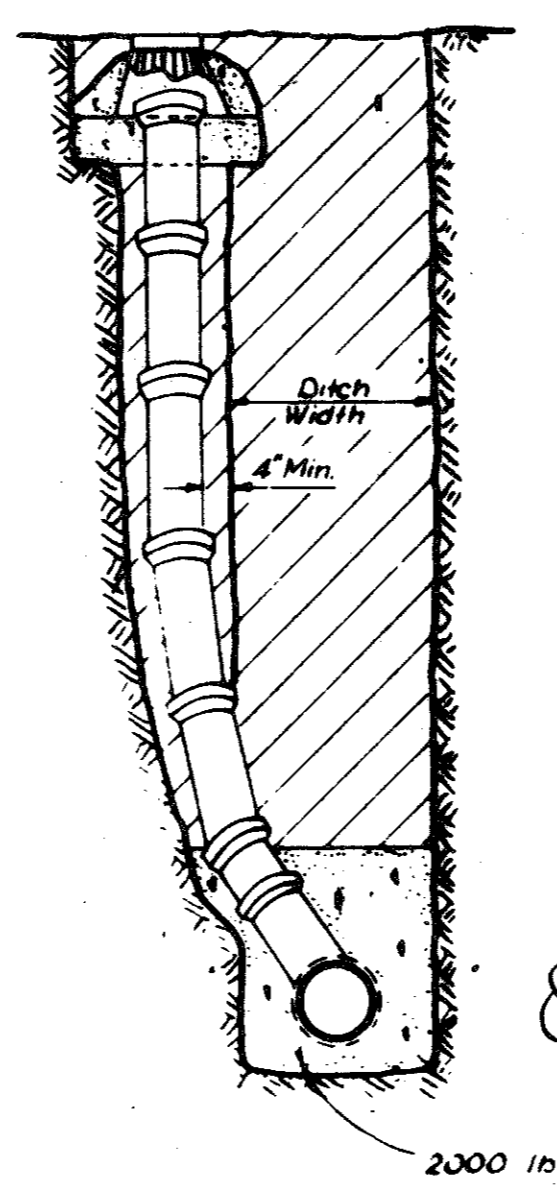
STANDARD MANHOLE



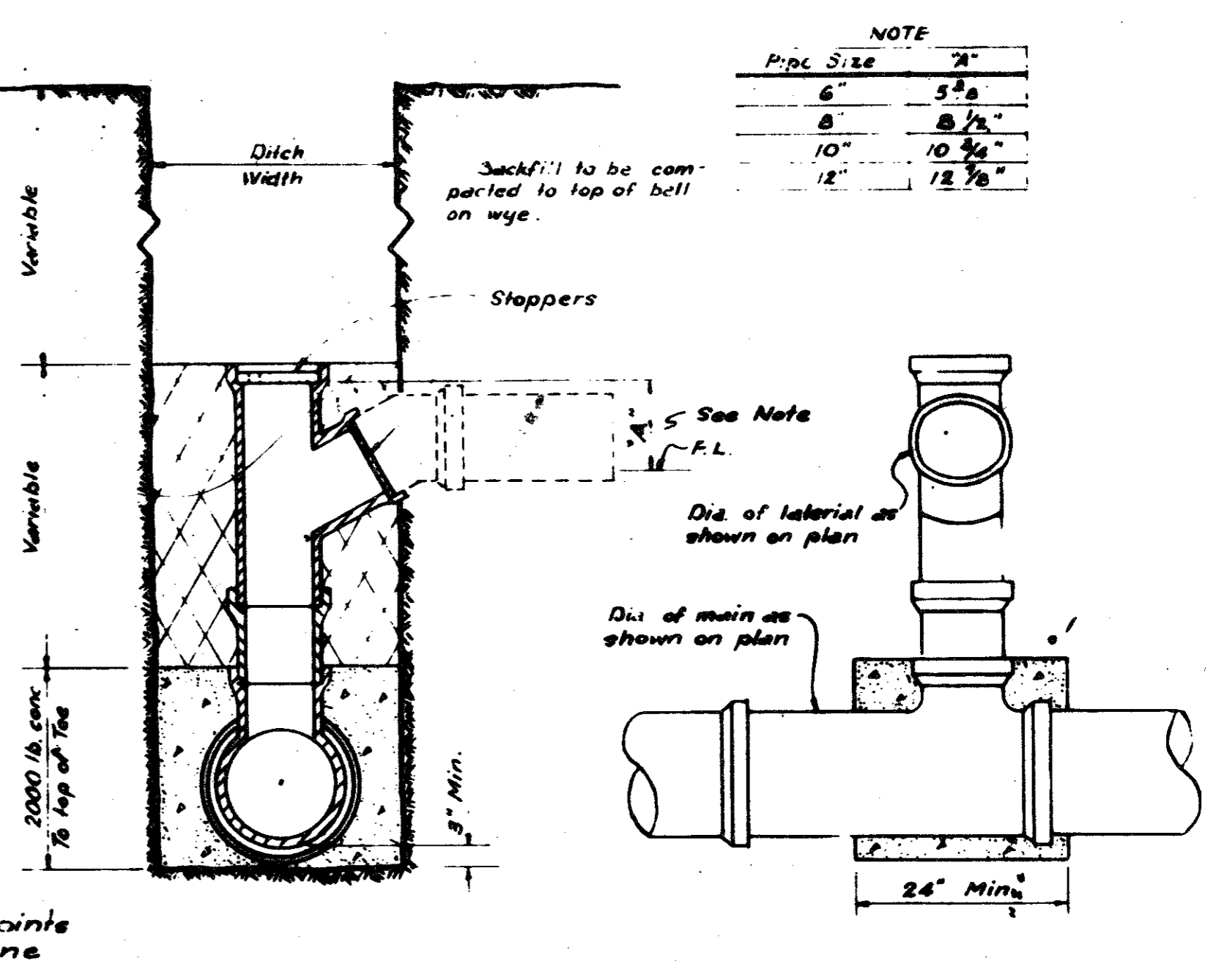
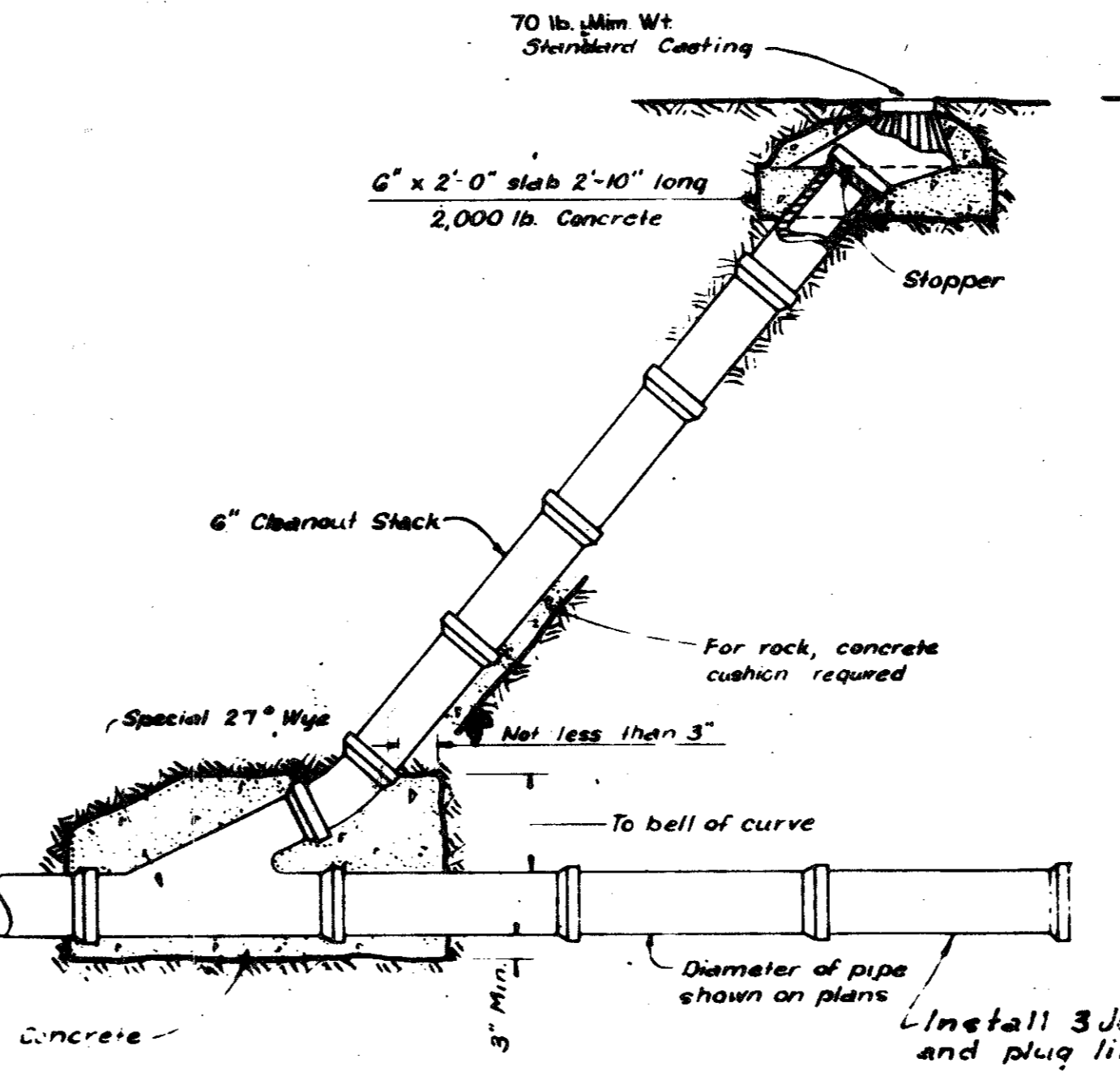
STANDARD DROP CONNECTION MANHOLE



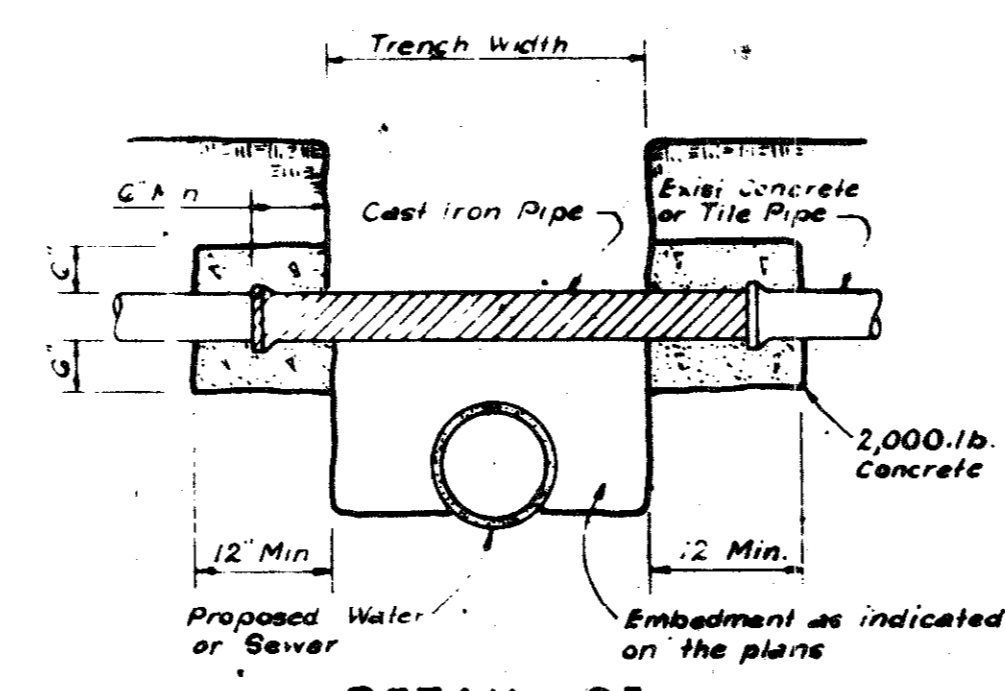
STANDARD C.I. MANHOLE STEP
 STORM SEWER & SANITARY SEWER



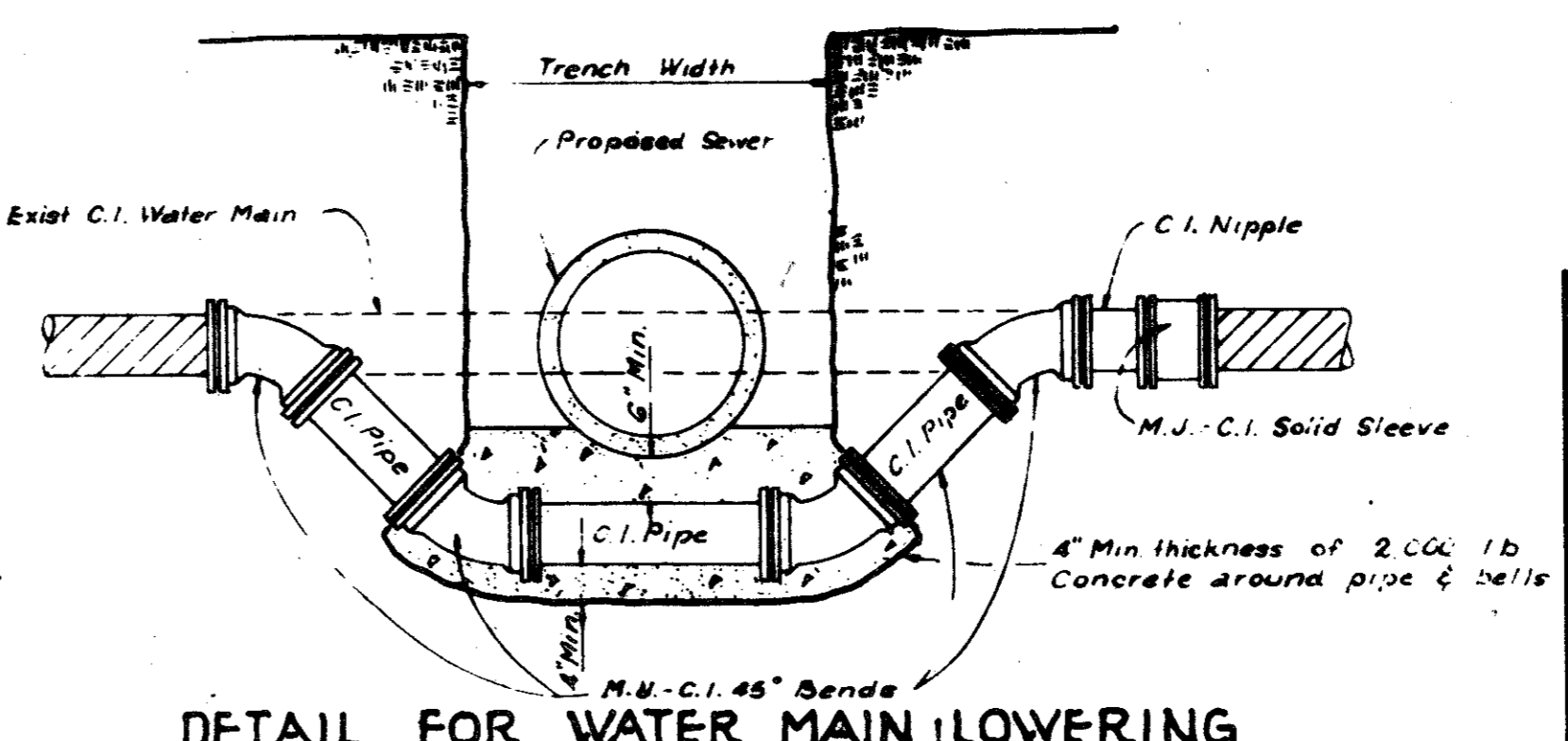
STANDARD CLEANOUT



DROP CONNECTION



DETAIL OF UTILITY SUPPORT



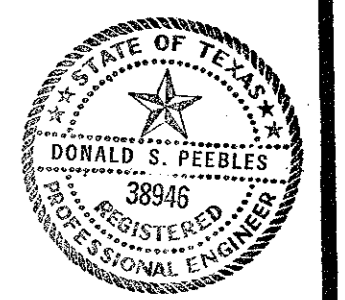
DETAIL FOR WATER MAIN LOWERING

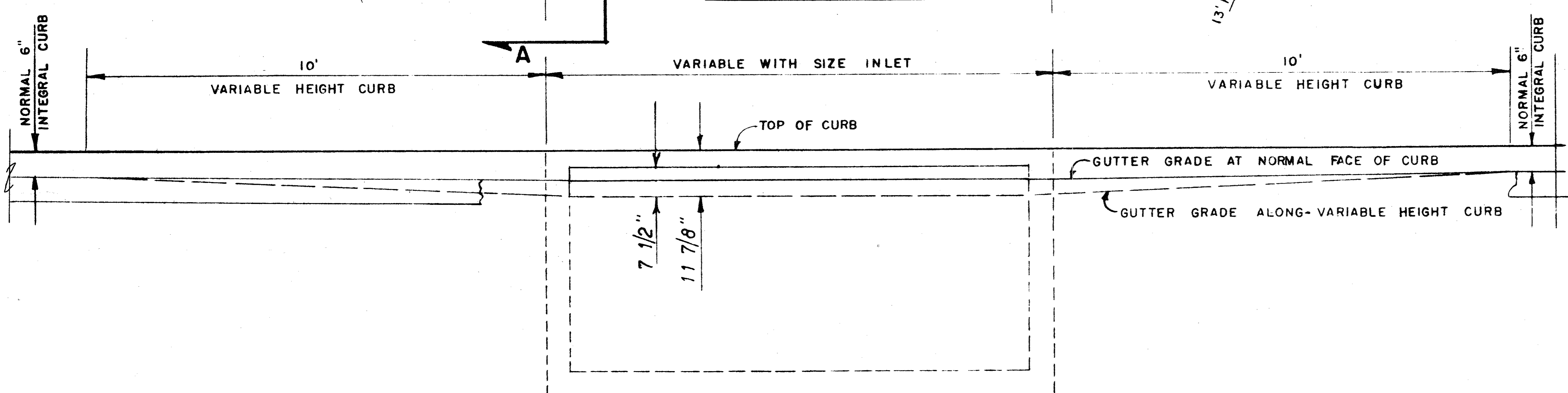
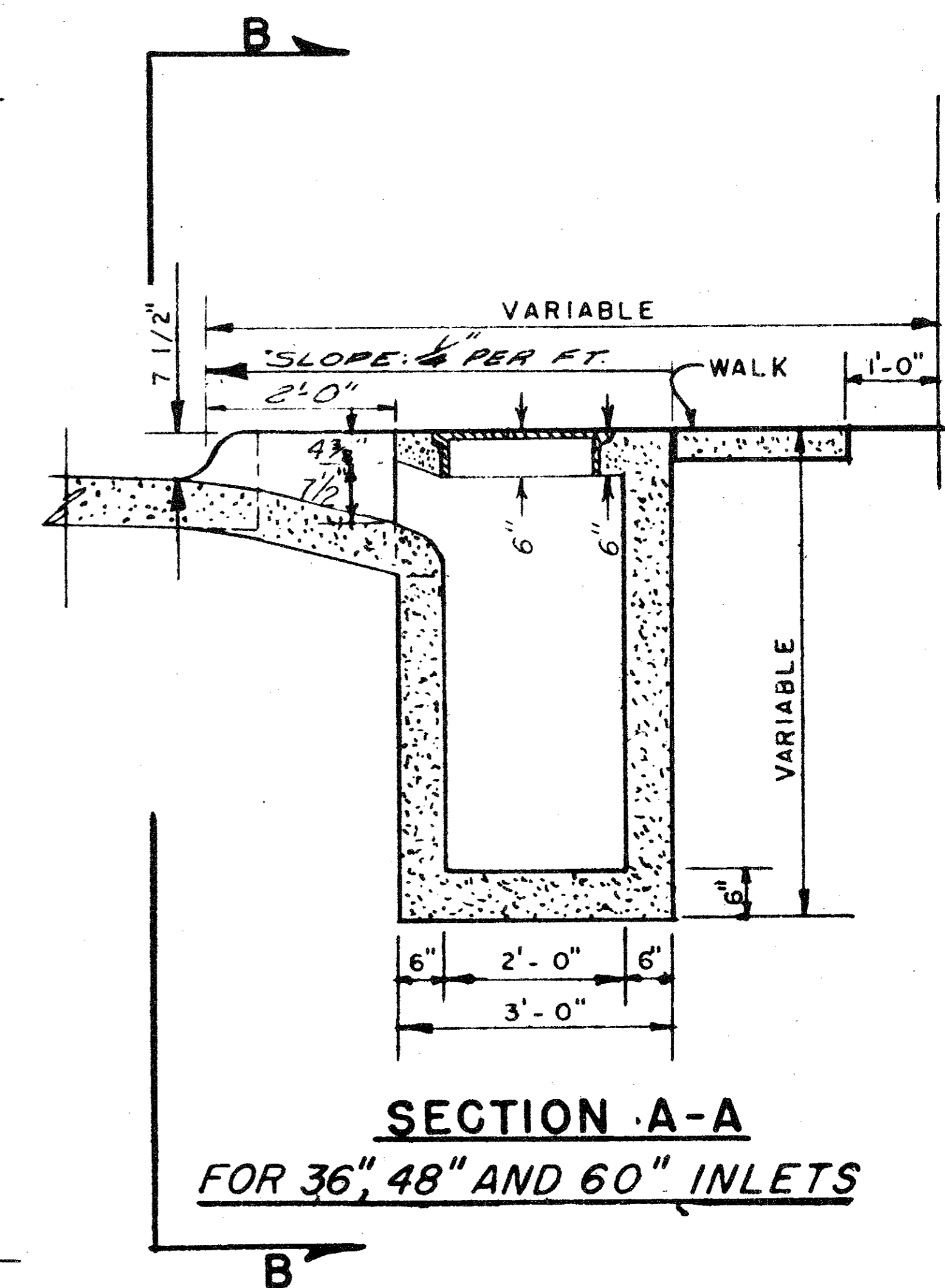
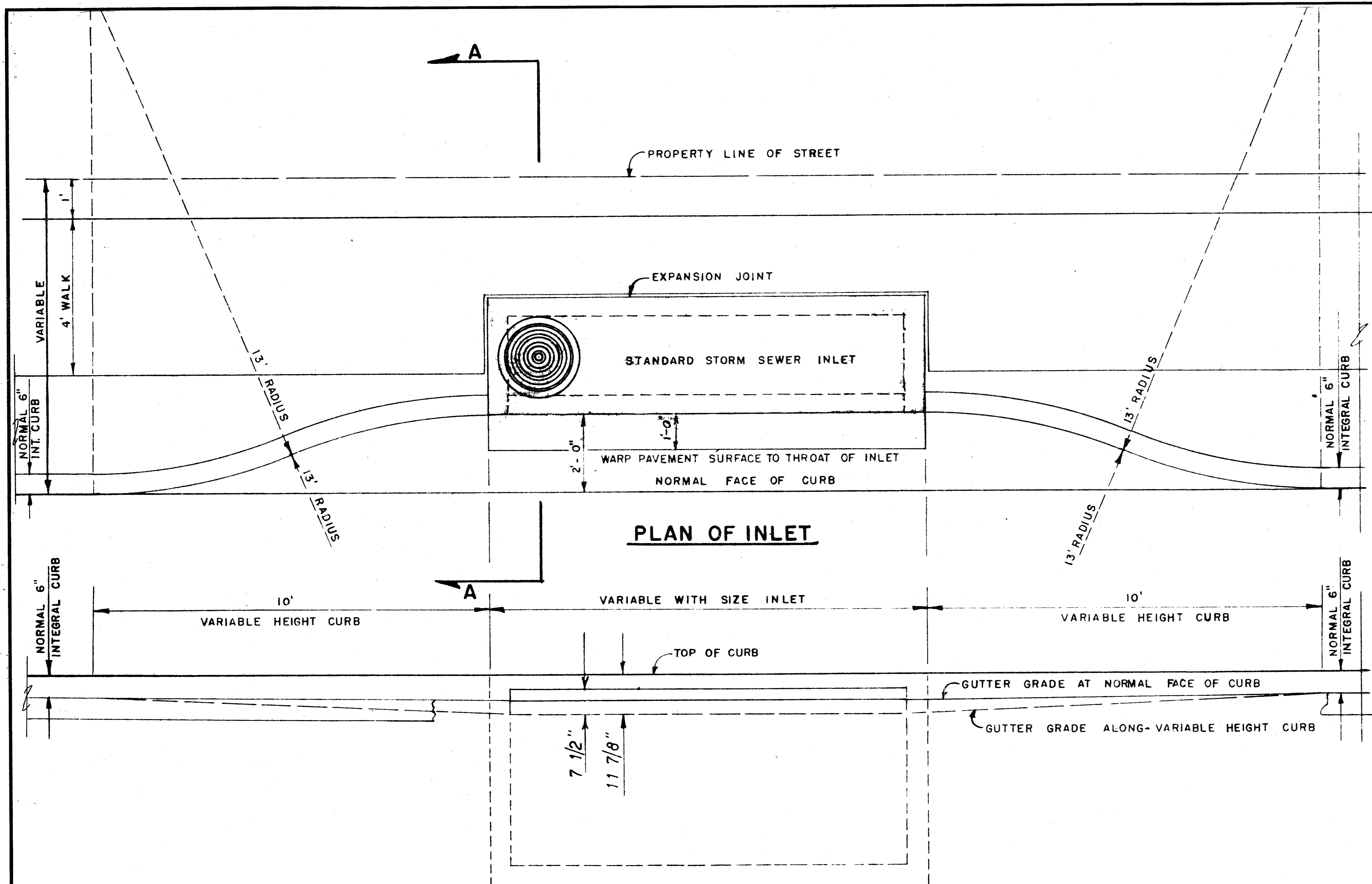
REVISED MARCH, 1978 L.E.P.
 REVISED MARCH, 1975 J.H.D.

QUORUM NORTH
 SANITARY SEWER DETAILS

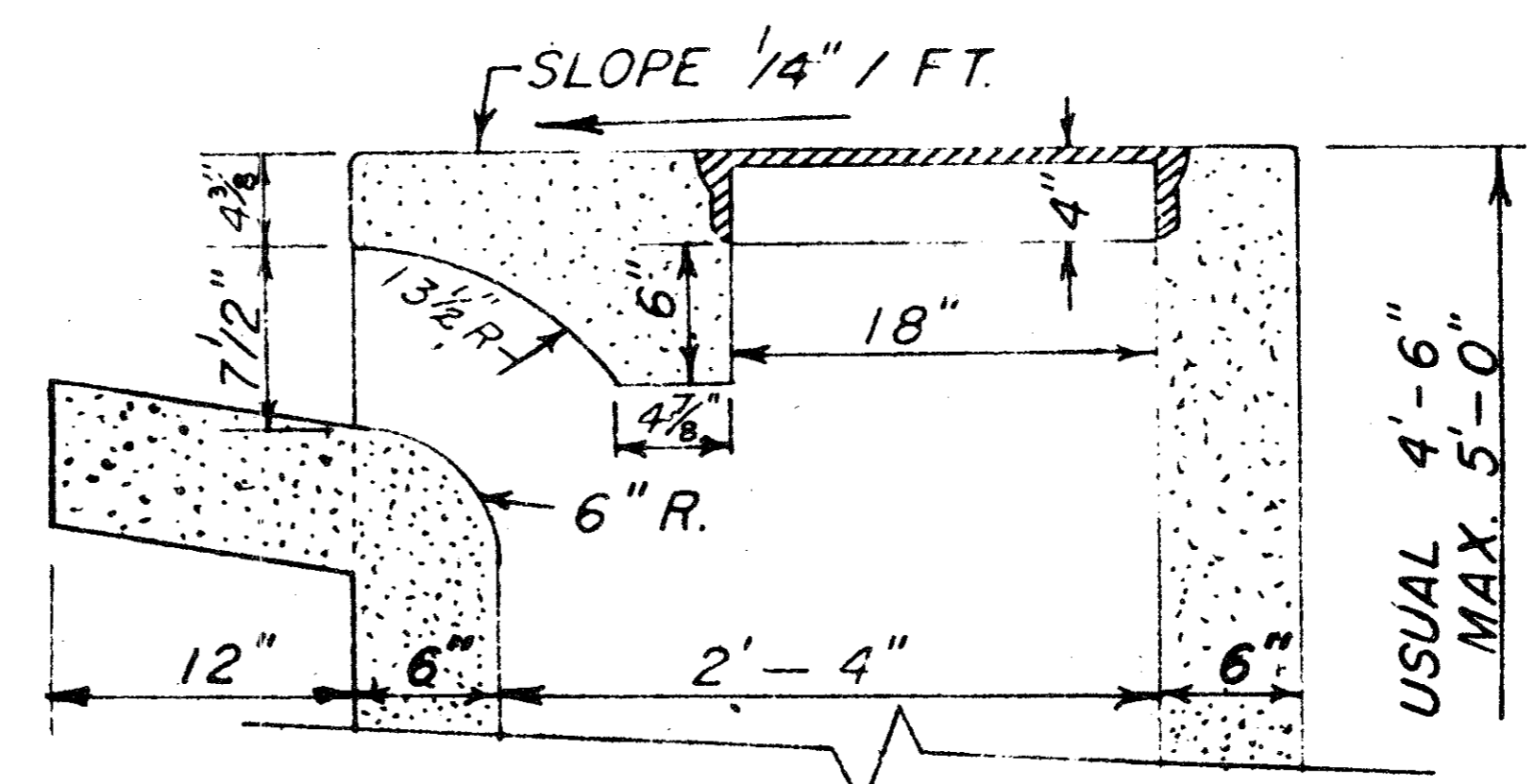
Graham Associates, Inc.
 CONSULTING ENGINEERS & PLANNERS

DESIGN	DRAWN	CHECKED	DATE	SCALE	SHEET NO.
R.E.V.	R.L.D.	D.P.	9-7-79	NONE	15 OF 19



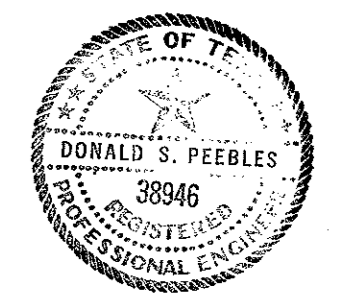


SECTION B-B



SECTION A-A FOR 6, 8 AND 10 FT. INLETS

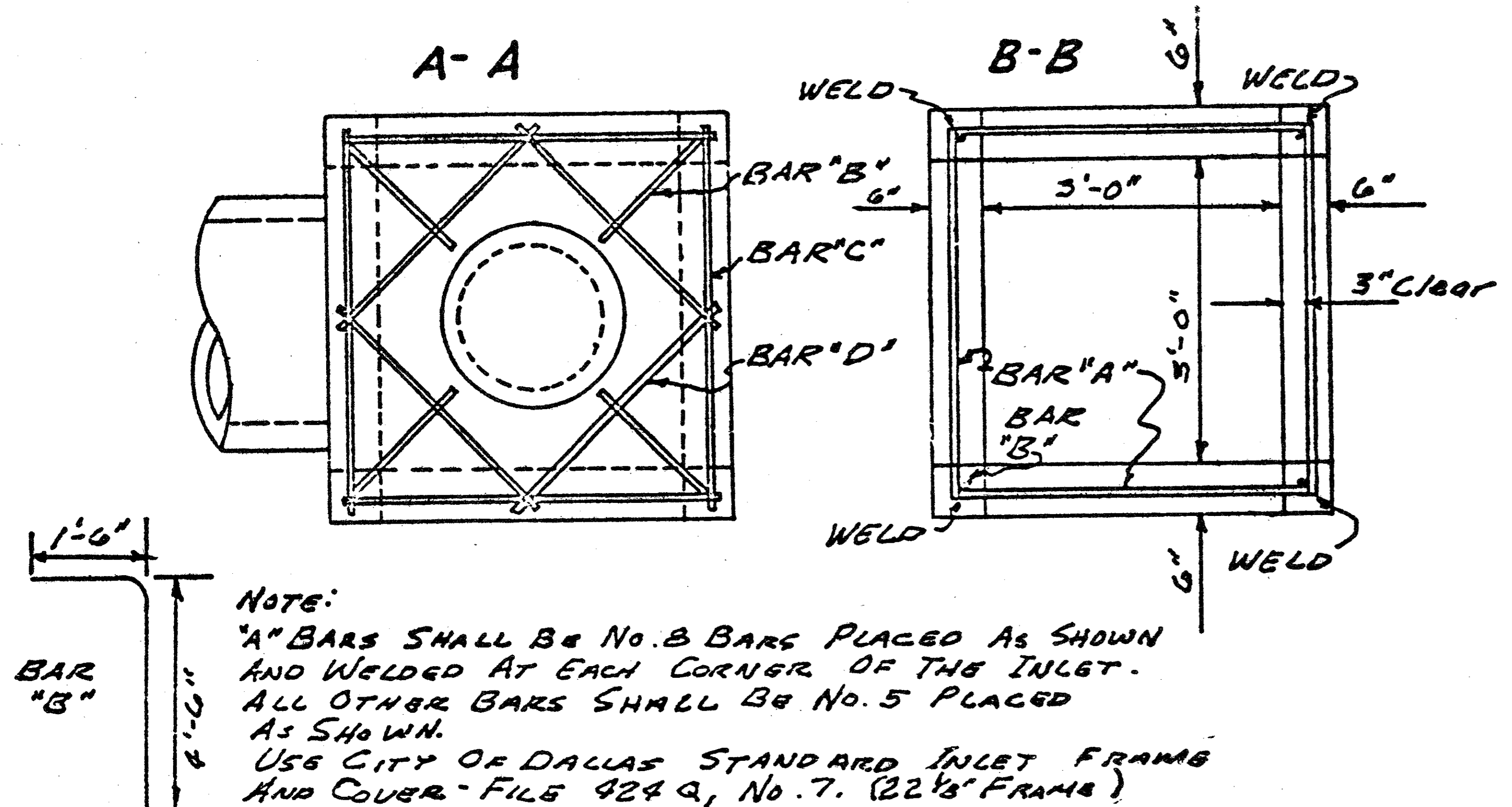
NOTE.
SEE FILE 424Q-7 FOR REINFORCING AND BEAM DESIGN



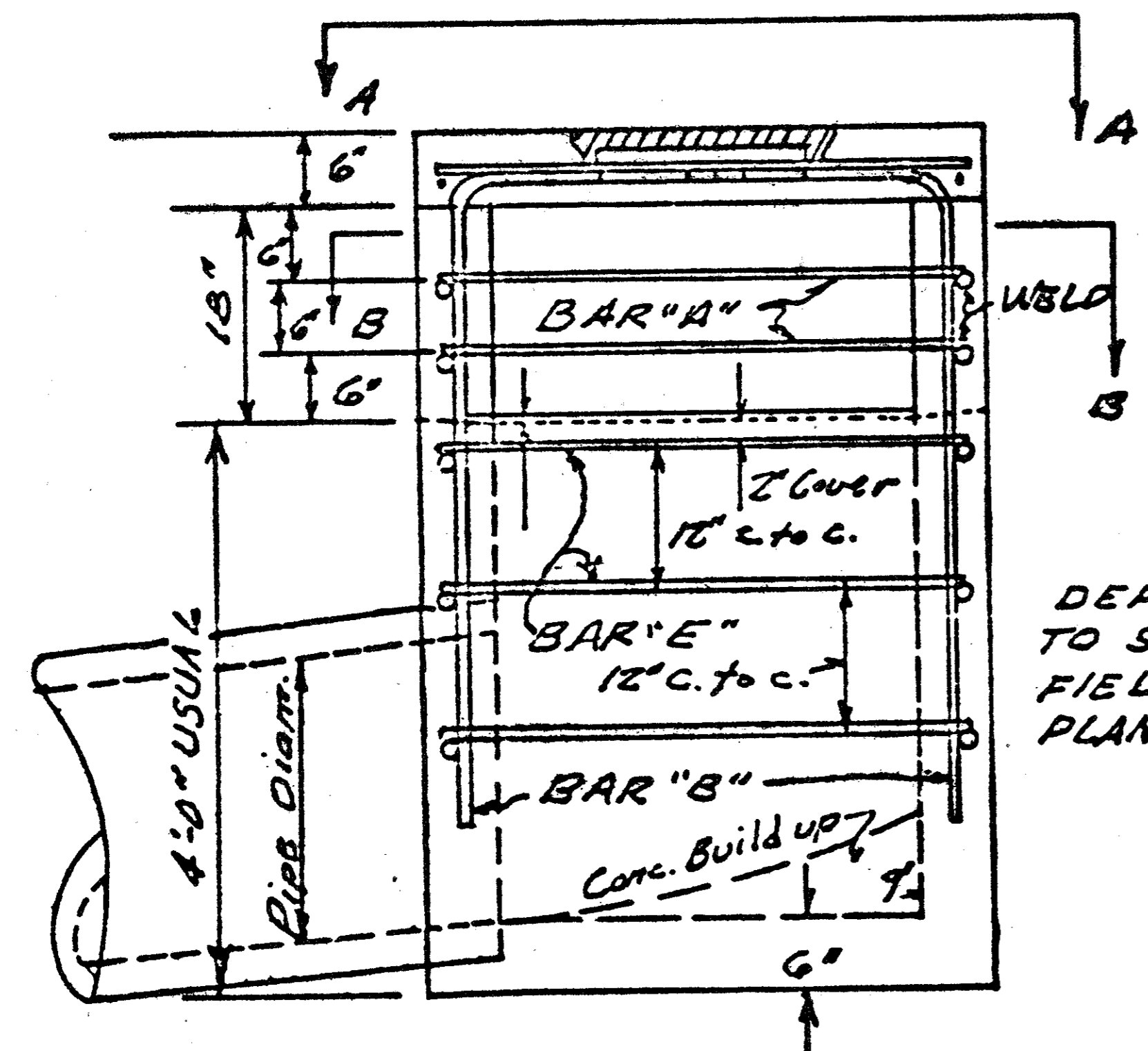
DETAILS OF
STANDARD RECESSED STORM
SEWER INLETS AND CURBS
DEPARTMENT OF PUBLIC WORKS
CITY OF ADDISON, TEXAS

SCALE	FILE	SHEET NO.
3/8" = 1'-0"	424	16 of 19

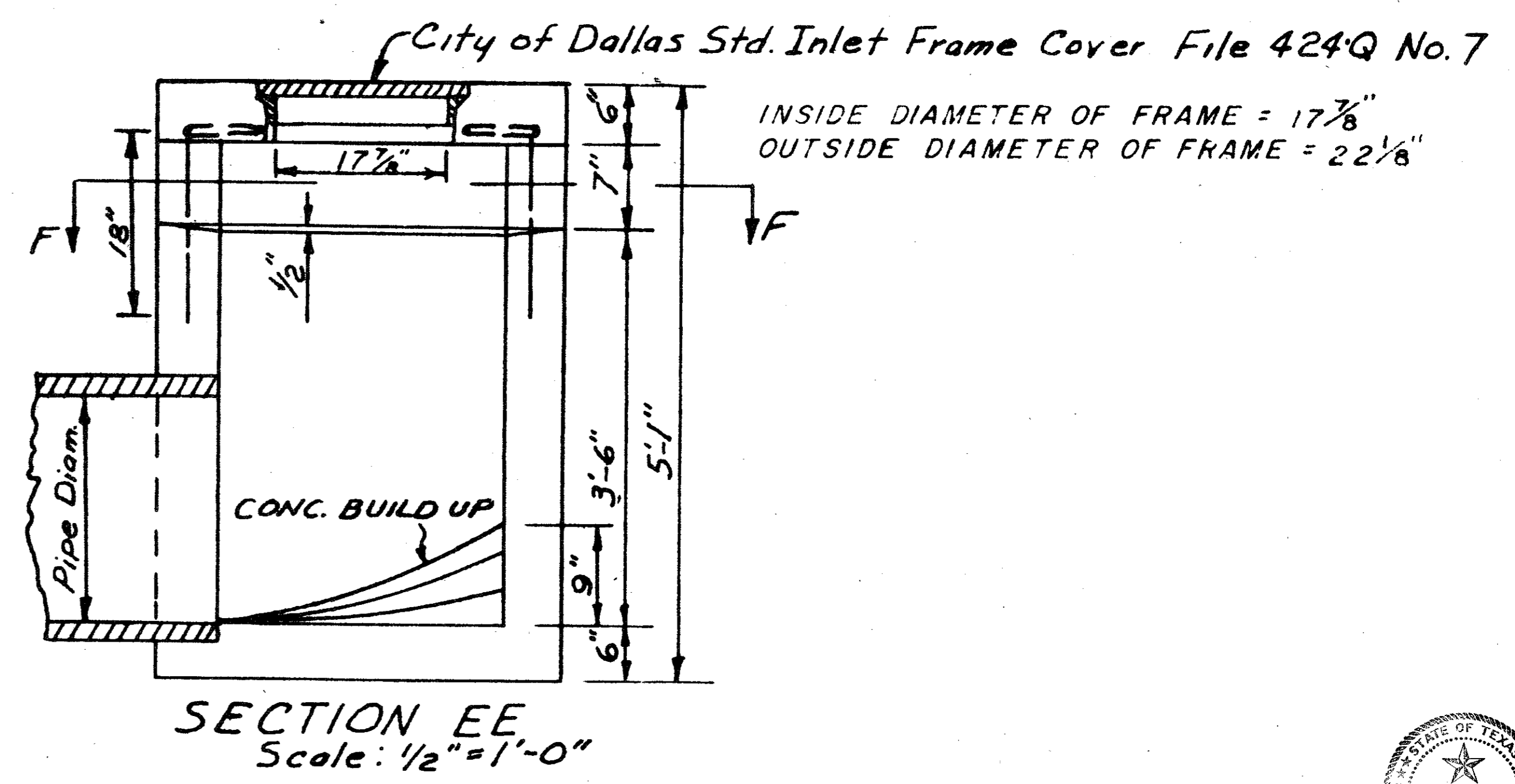
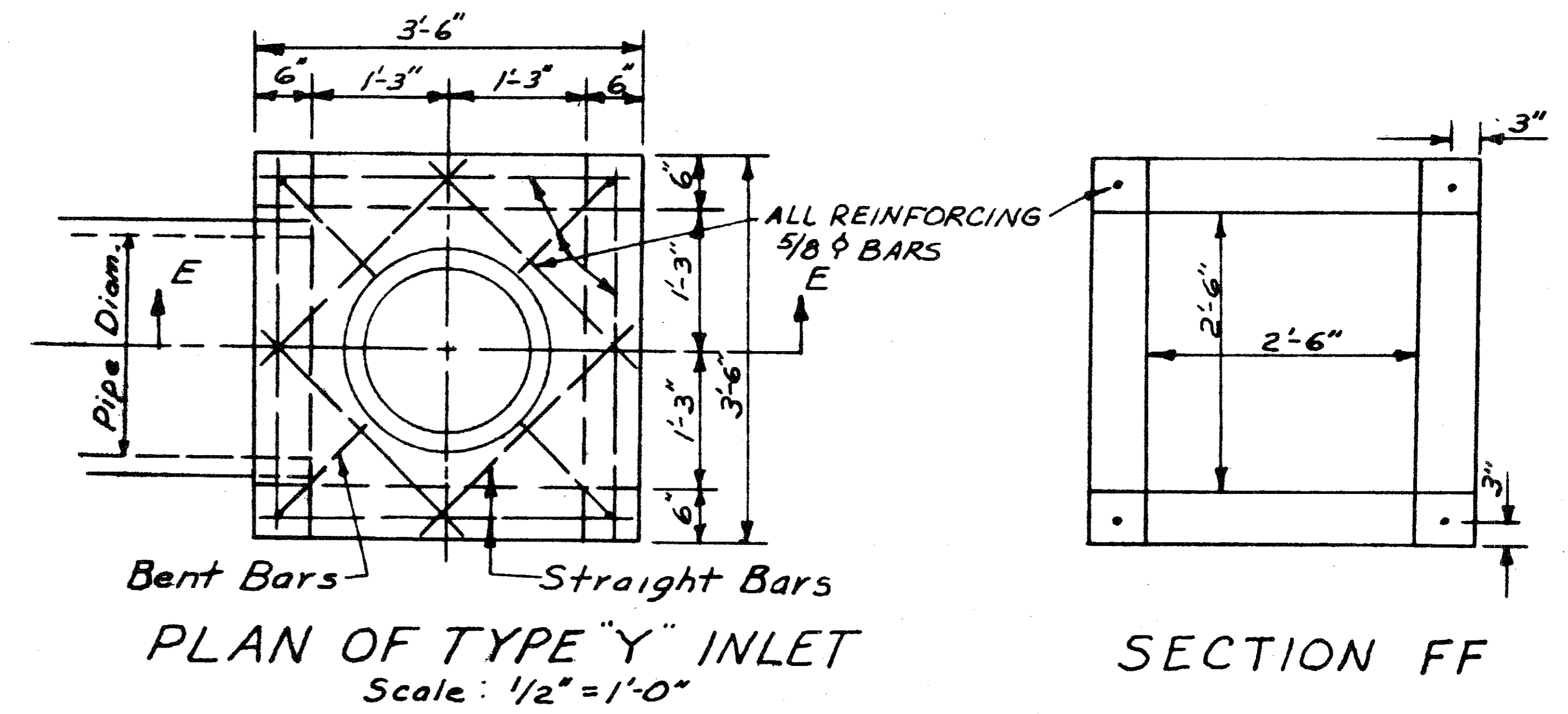
SPECIAL "Y" INLET
Scale: 1/2" = 1'



NOTE:
"A" BARS SHALL BE NO. 8 BARS PLACED AS SHOWN AND WELDED AT EACH CORNER OF THE INLET. ALL OTHER BARS SHALL BE NO. 5 PLACED AS SHOWN.
USE CITY OF DALLAS STANDARD INLET FRAME AND COVER - FILE 424 Q, No. 7. (22 1/8" FRAME)

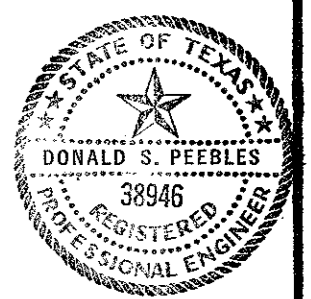


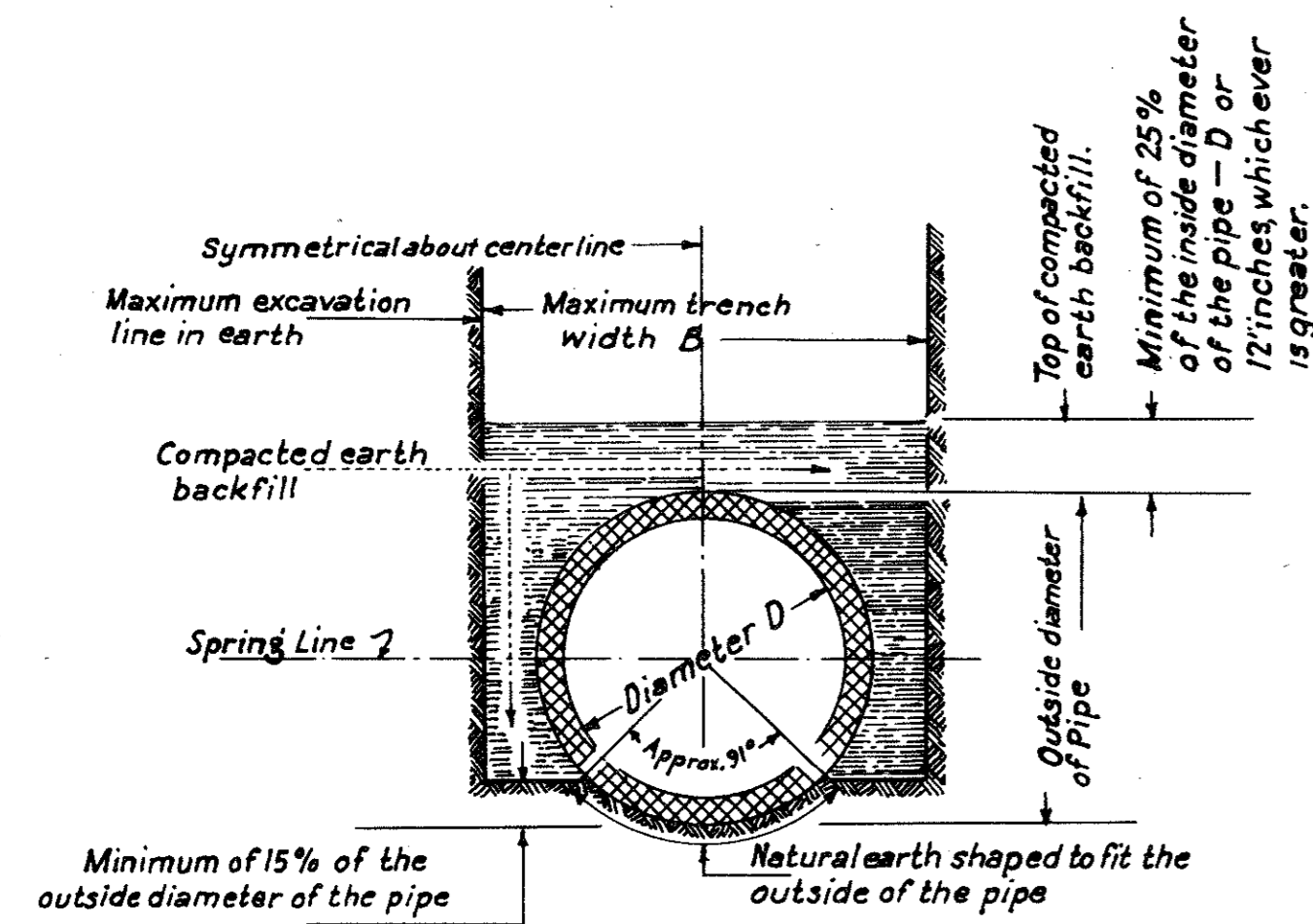
DEPTH OF INLET MAY VARY TO SUIT CONDITION IN THE FIELD OR AS SPECIFIED ON PLANS.



QUORUM NORTH
All CONC. TO BE 3000 P.S.I.
Rev: 5-6-52 Reduce Throat Opening

STANDARD CITY OF ADDISON					
TYPE "Y" INLET					
DEPARTMENT OF PUBLIC WORKS					
DRAWN	TRACED	DATE	SCALE	FILE	SHEET
H.C.	R.E.H.	9-7-79	NO. ED	424	17 of 19



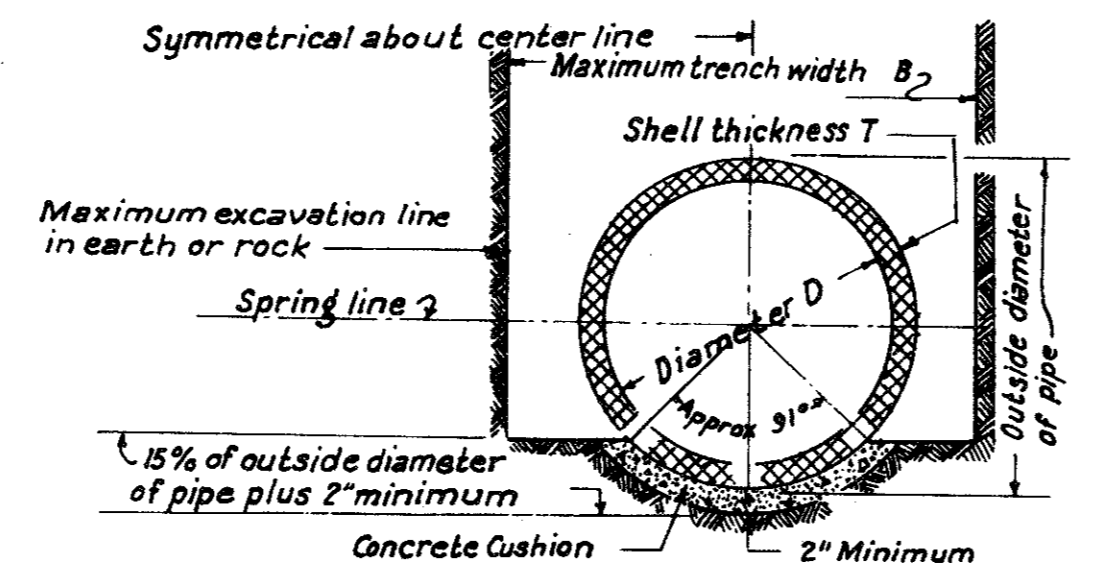


TRENCH BEDDING IN EARTH FOR PRECAST PIPE WITHOUT CONCRETE CRADLE OR CUSHION

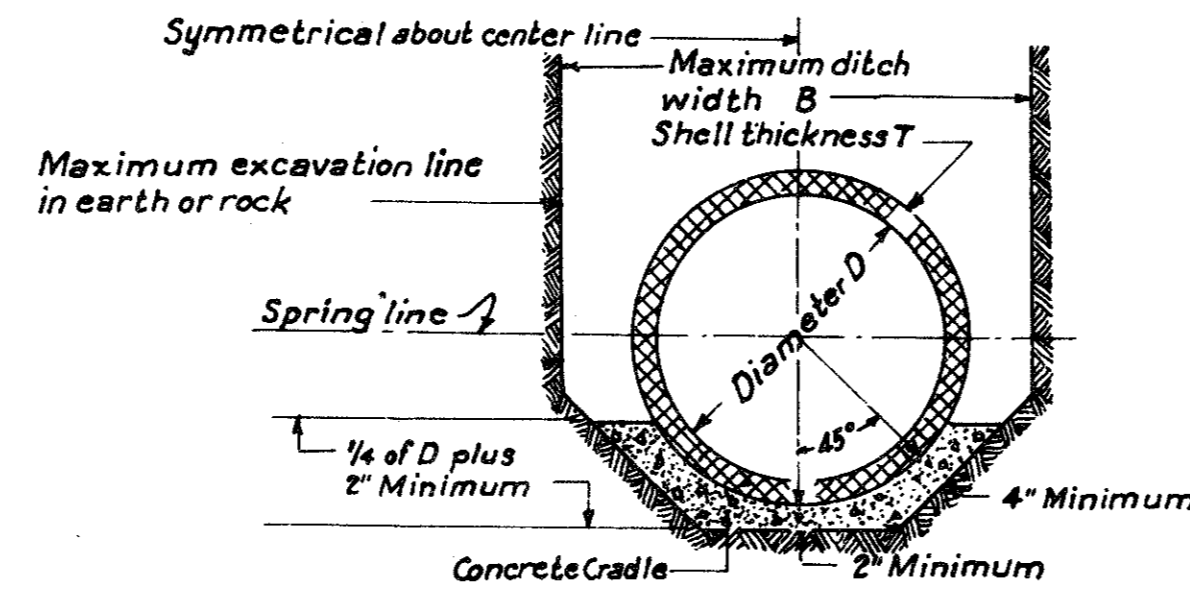
This method of trench bedding and backfill will be required in the construction of all precast pipe sewers where concrete cradle and cushion is not used.

BACKFILL FOR ALL PRECAST PIPE WITH TRENCH BEDDING, CONCRETE CRADLE, AND CUSHION

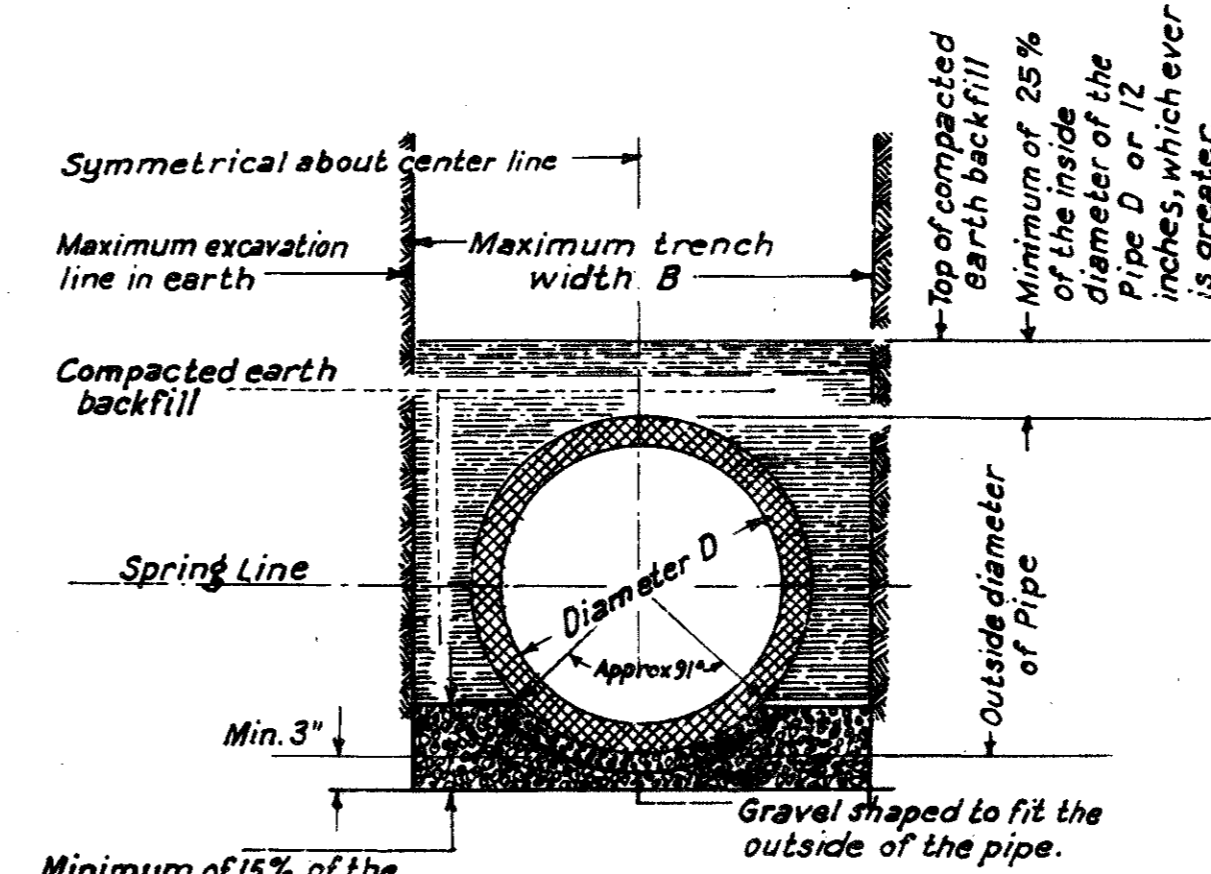
This method of backfill will be required in the construction of all precast pipe sewers with concrete cradle and concrete cushion.



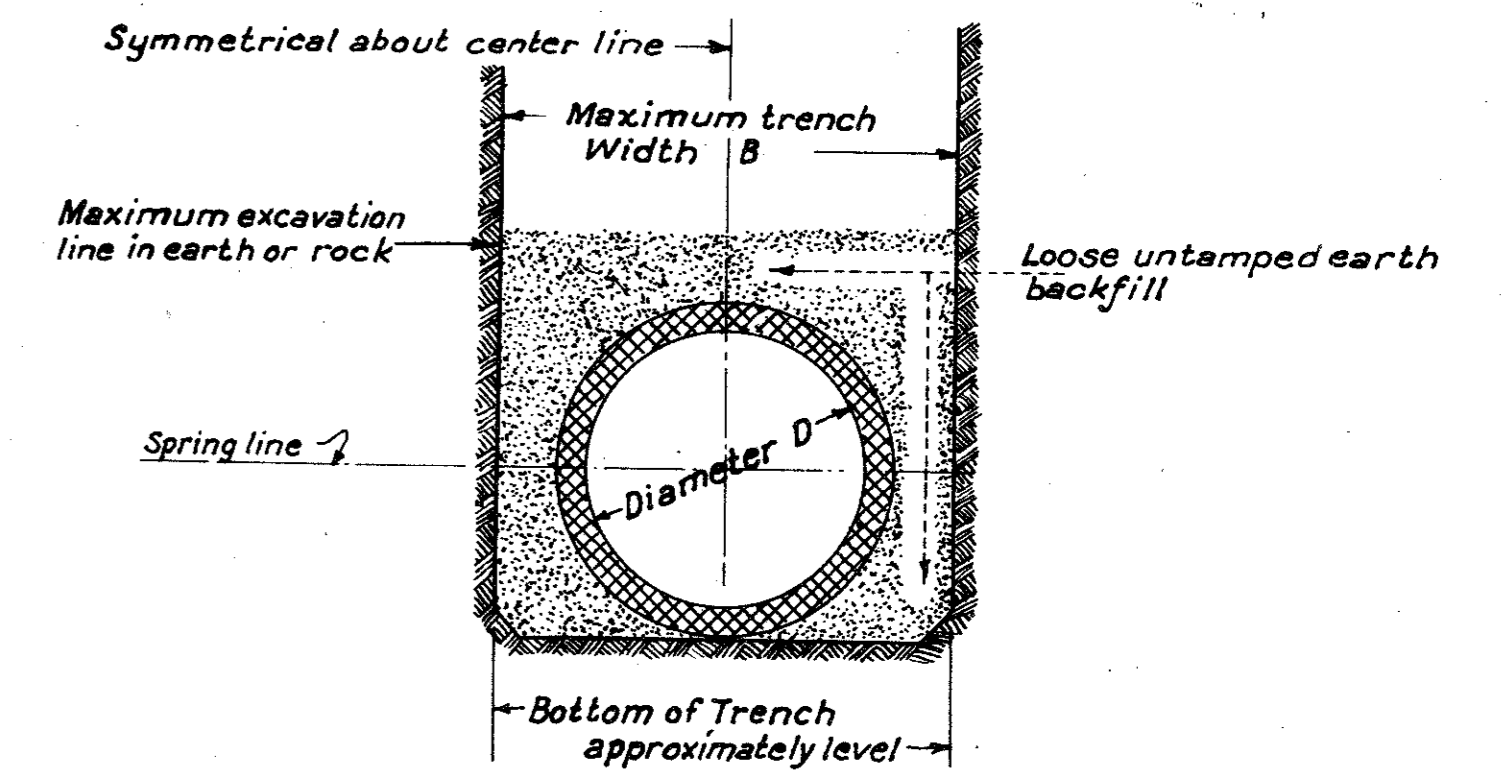
CONCRETE CUSHION BEDDING



CONCRETE CRADLE BEDDING



GRAVEL BEDDING

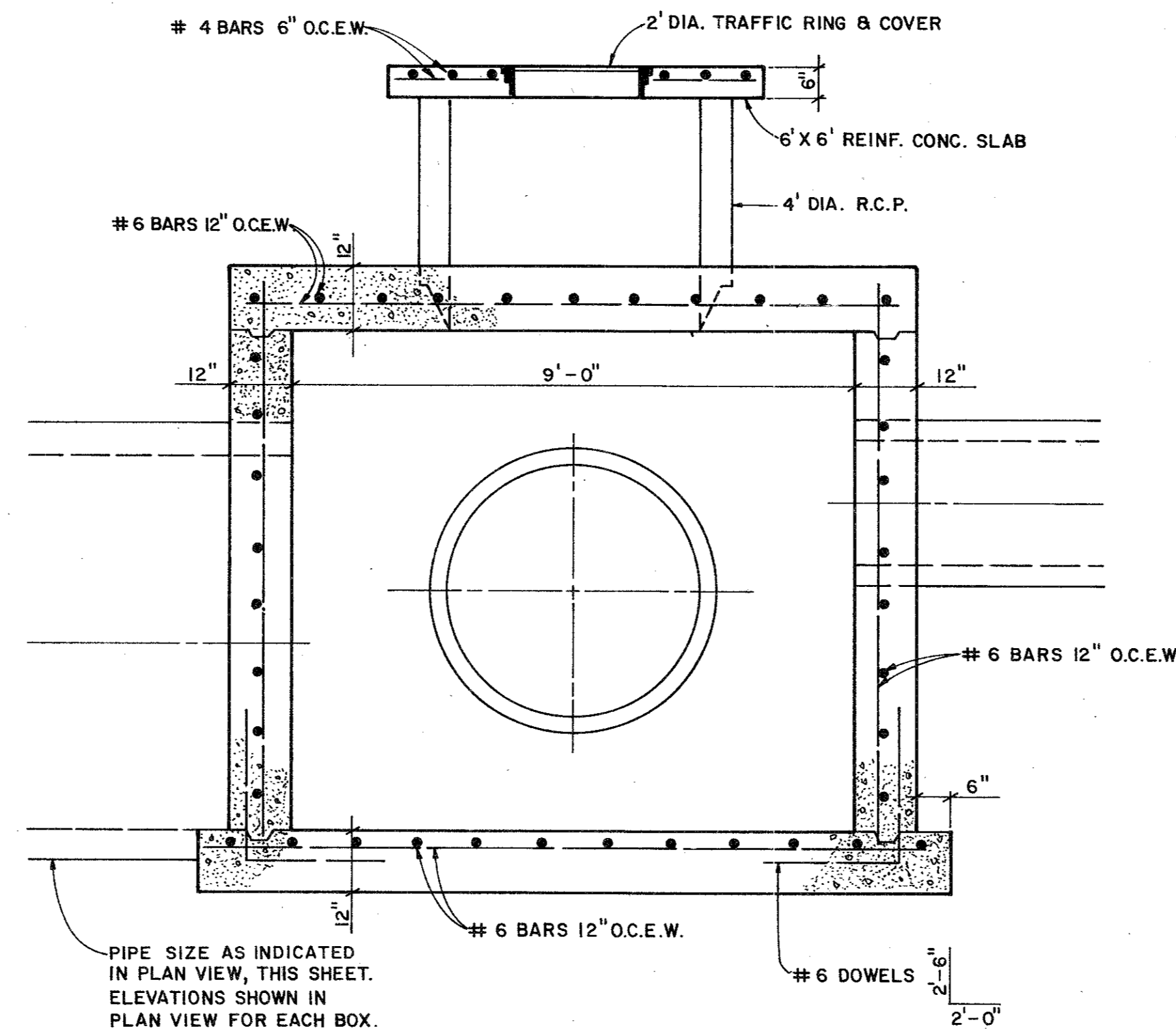


UNACCEPTABLE TRENCH BEDDING AND BACKFILL FOR ALL PRECAST PIPE SEWERS

This method of trench bedding and backfill will not be permitted in the construction of precast pipe sewers.

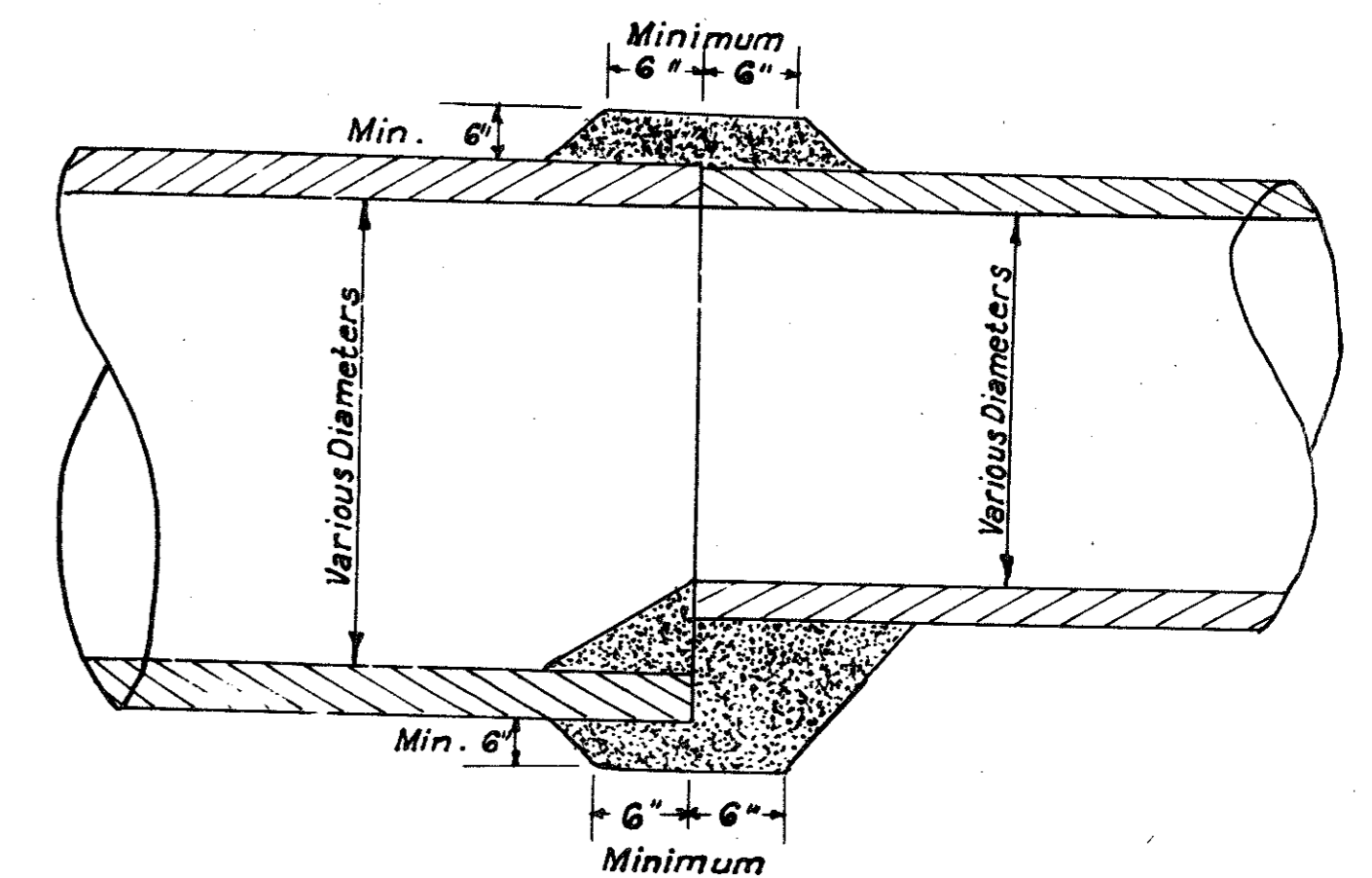
NOTES

- Concrete for cushion or for cradle shall consist of 1 part cement and 12 parts aggregate. Any unauthorized excess excavation for cushion or cradle shall be filled with concrete at the contractor's expense. No pipe shall be laid in a rock trench without using concrete cushion unless another type of bedding is approved by the Engineer.
- The maximum trench width (B) shall be the outside diameter of the pipe used plus 16 inches for pipe with 33 inch diameter or smaller. The maximum trench width (B) shall be the outside diameter of the pipe plus 24 inches for pipes larger than 33 inch inside diameter.
- The City of Dallas General Specifications shall govern the quality, placement, measurement and payment of reinforced concrete pipe conforming to designation C 76 of the current A.S.T.M. Specifications.

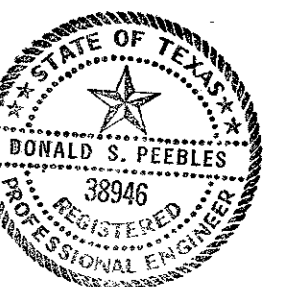


TYPICAL SECTION THRU JUNCTION BOXES

SCALE: 1/2" = 1' - 0"

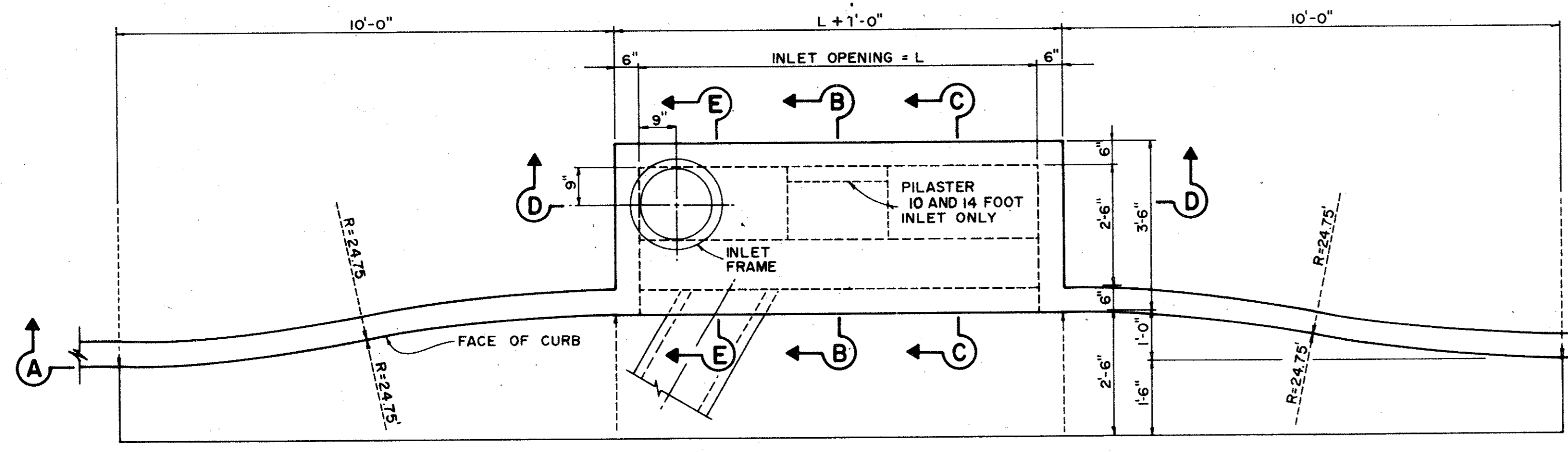


DETAIL OF CONCRETE COLLAR FOR END TO END PIPE EXTENSIONS

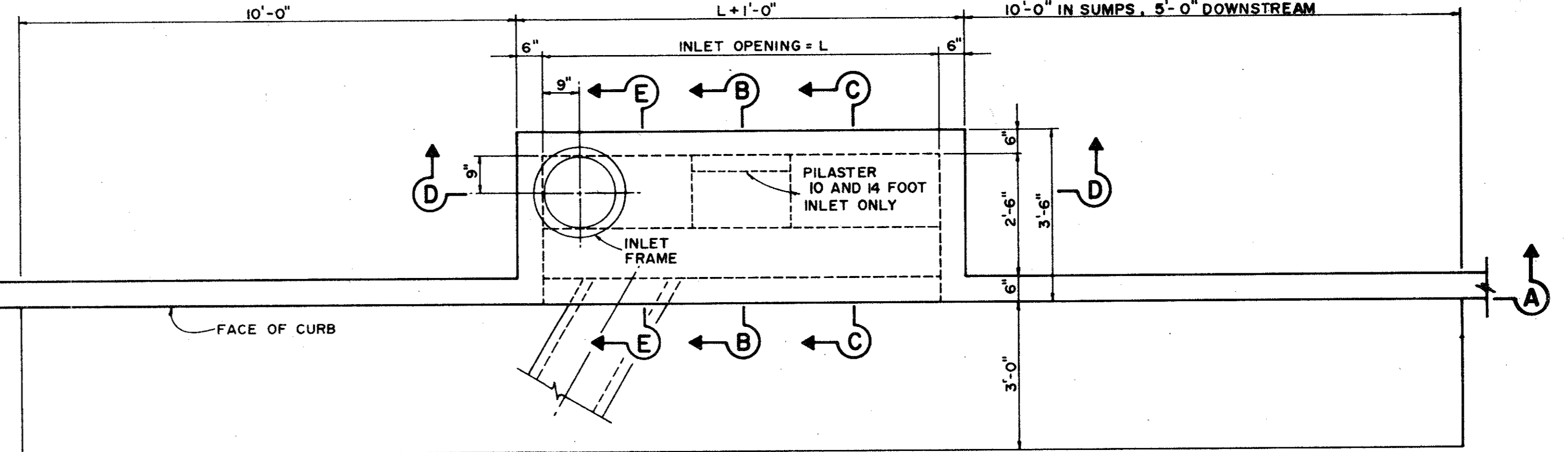


QUORUM NORTH

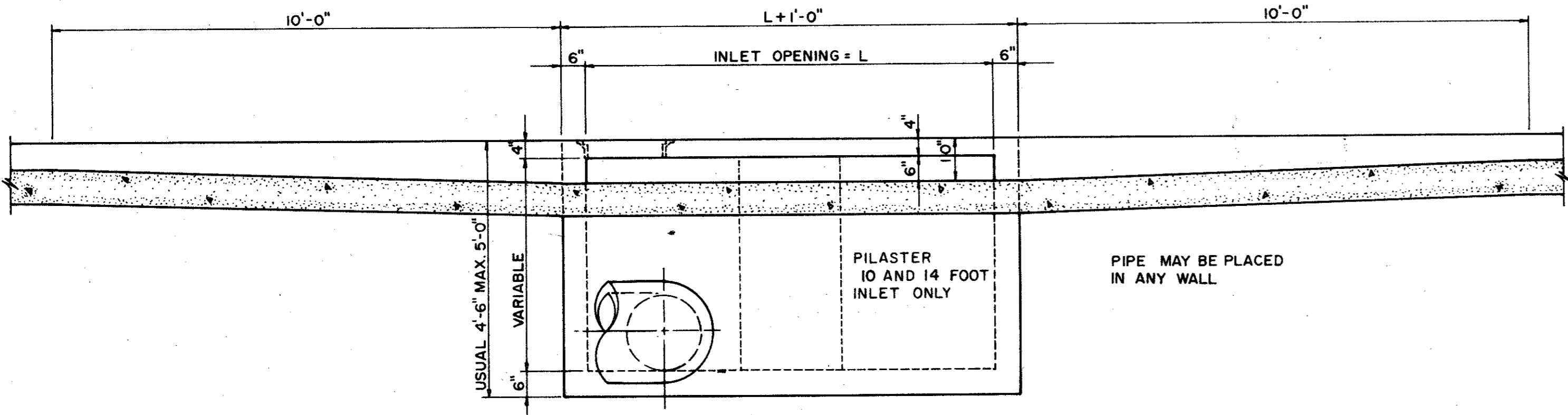
STANDARD DETAILS						
CONCRETE CRADLE AND CUSHION AND TRENCH BEDDING						
DEPT. OF PUBLIC WORKS						
CITY OF ADDISON, TEXAS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	SHEET NO.
W.C.C.	D.T.C.	9-7-79	None	None	424 Q	18 of 19



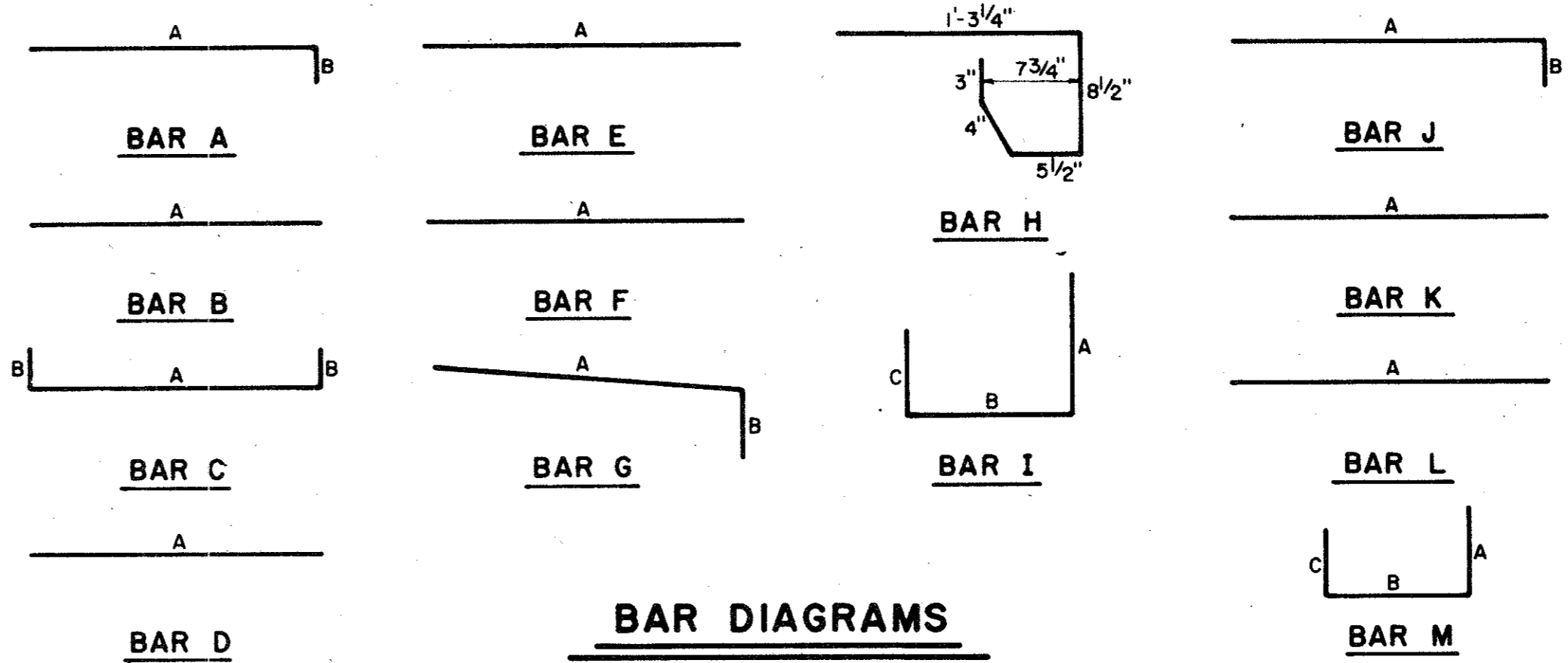
PLAN - RECESSED INLET



PLAN - STANDARD INLET



SECTION A-A-RECESSED AND STANDARD INLETS
5, 10, AND 14 FOOT INLETS



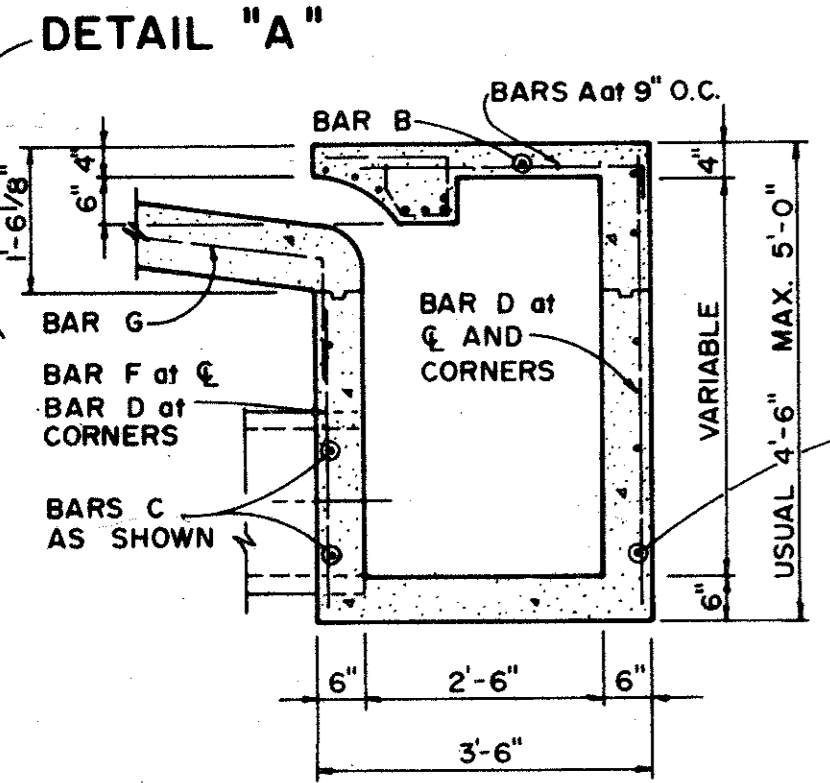
BAR DIAGRAMS

REINFORCING STEEL SCHEDULE

DIMENSIONS SHOWN ARE FOR MAXIMUM SIZE INLETS

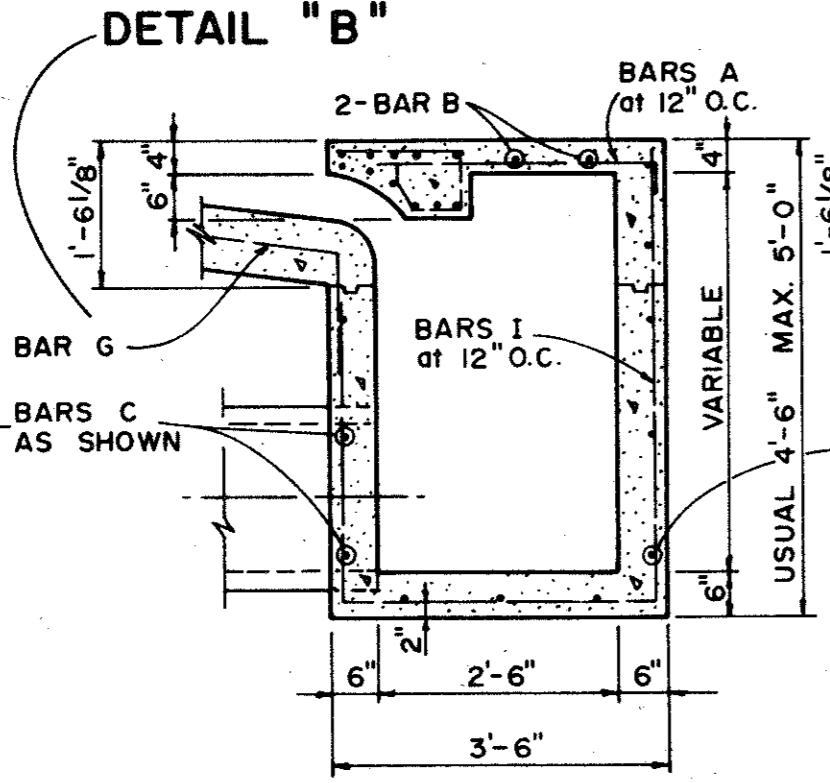
INLET LENGTH	BAR TYPE	BAR DIA. (1/8 IN.)	NO. REQ'D	BAR DIMENSIONS		
				A	B	C
5	A	3	9	3'-2"	0'-3"	-
	B	3	1	3'-10"	-	-
	C	4	15	5'-8"	0'-6"	-
	D	4	5	4'-8"	-	-
	F	4	1	3'-2"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	3	*	*	*
10	A	3	10	3'-2"	-	-
	B	3	2	8'-10"	-	-
	C	4	16	10'-8"	0'-6"	-
	D	4	4	4'-8"	-	-
	E	5	6	10'-8"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	3	*	*	*
	I	4	8	4'-8"	3'-2"	3'-2"
	J	5	9	3'-2"	1'-3"	-
	K	4	5	2'-3"	-	-
	L	4	5	4'-3"	-	-
	M	5	9	4'-3"	3'-2"	3'-9"
14	A	3	14	3'-2"	0'-3"	-
	B	3	2	10'-10"	-	-
	C	4	16	14'-8"	0'-6"	-
	D	4	4	4'-8"	-	-
	E	5	6	14'-8"	-	-
	G	3	5	2'-0"	1'-3"	-
	H	3	21	*	*	*
	I	4	12	4'-8"	3'-2"	3'-2"
	J	5	9	3'-2"	1'-3"	-
	K	4	5	2'-3"	-	-
	L	4	5	4'-3"	-	-
	M	5	9	4'-3"	3'-2"	3'-9"

* SEE D. AGRAM FOR DIMENSIONS



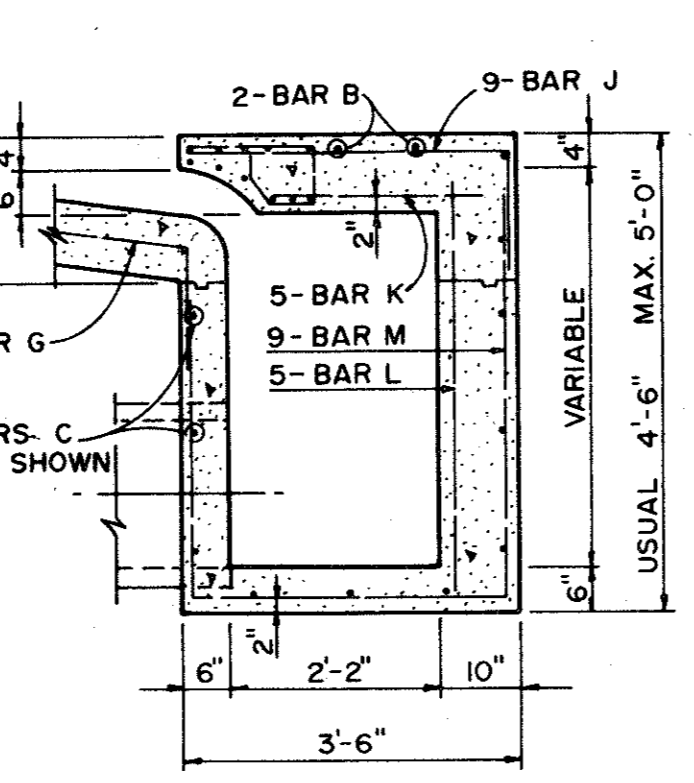
SECTION E-E

5 FOOT INLET

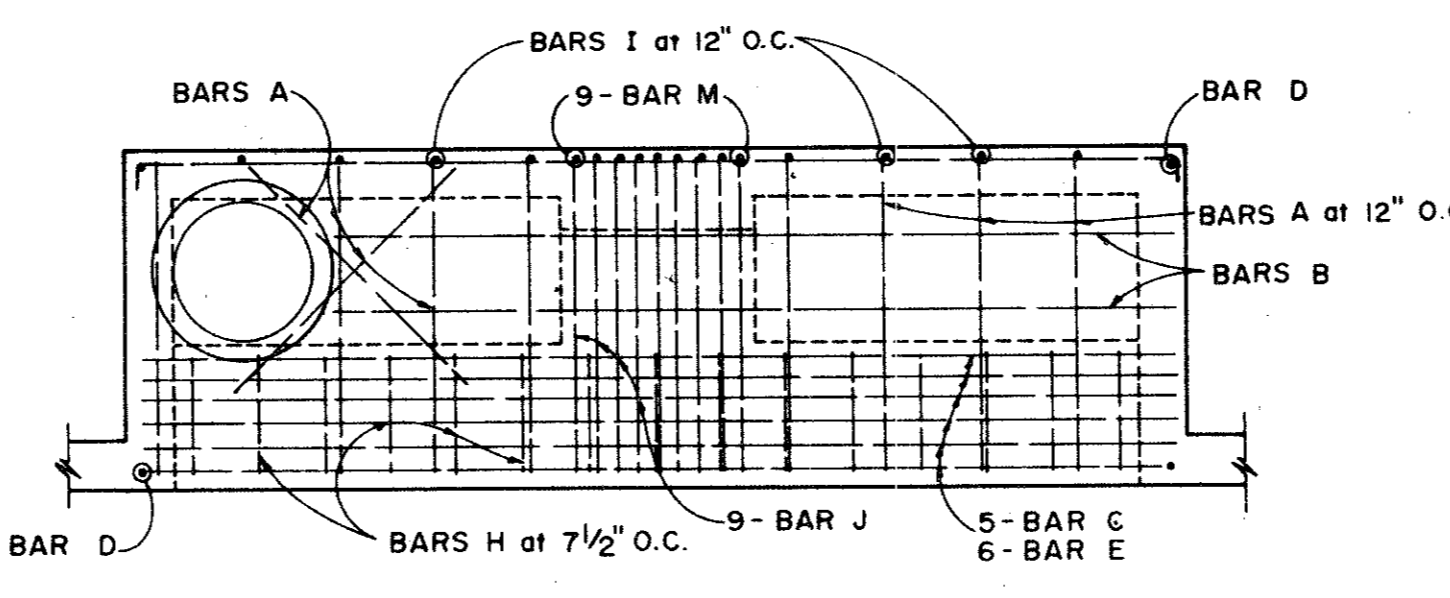


SECTION C-C

10 AND 14 FOOT INLETS

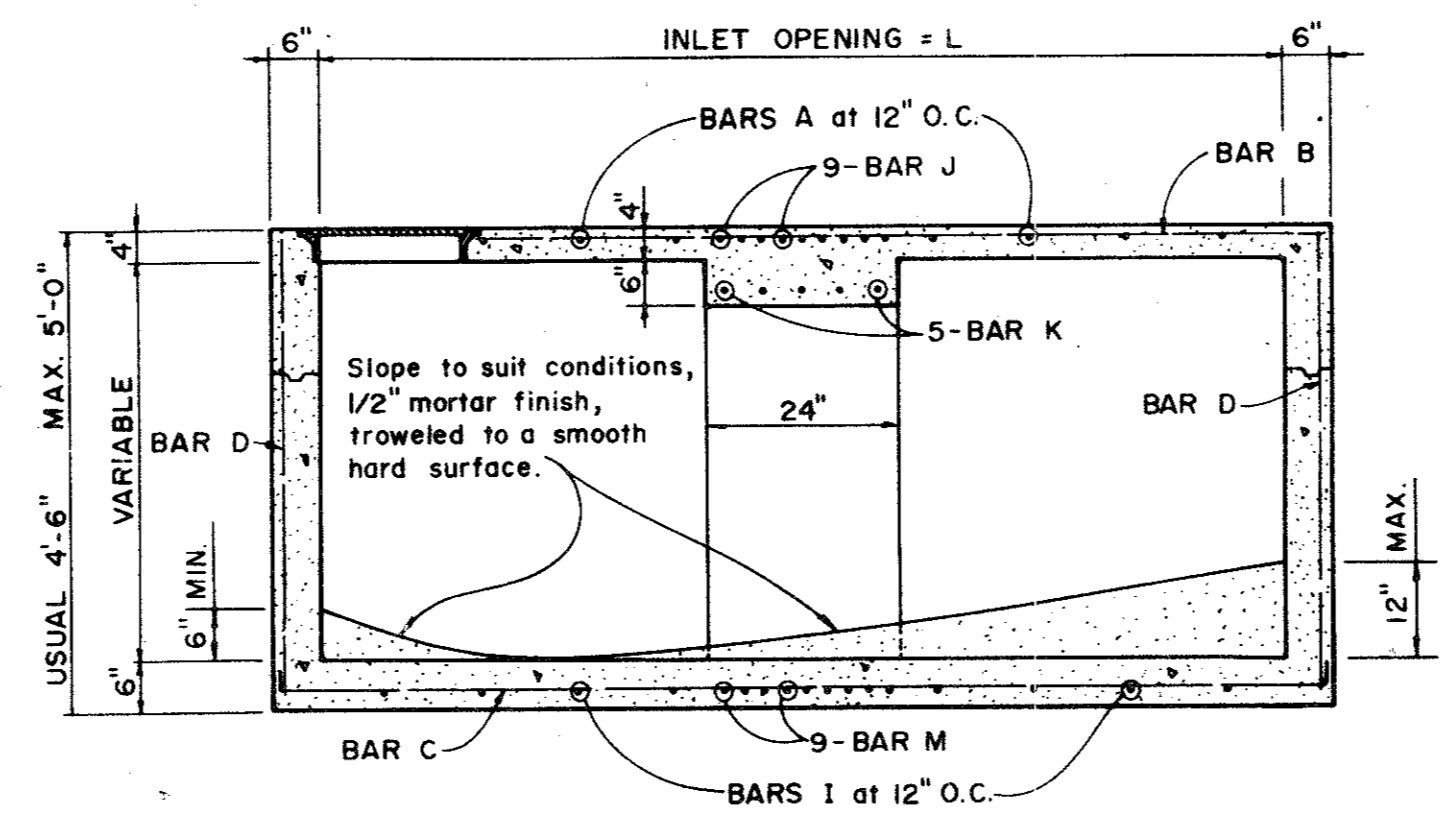


SECTION B-B

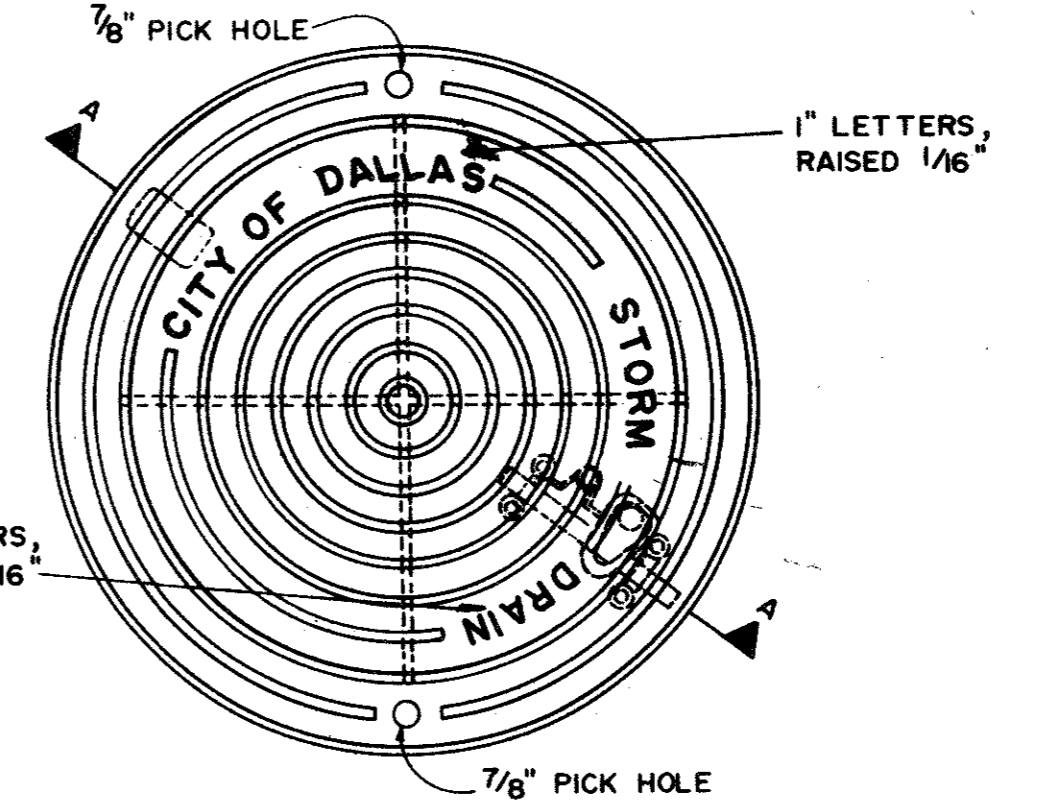


PLAN

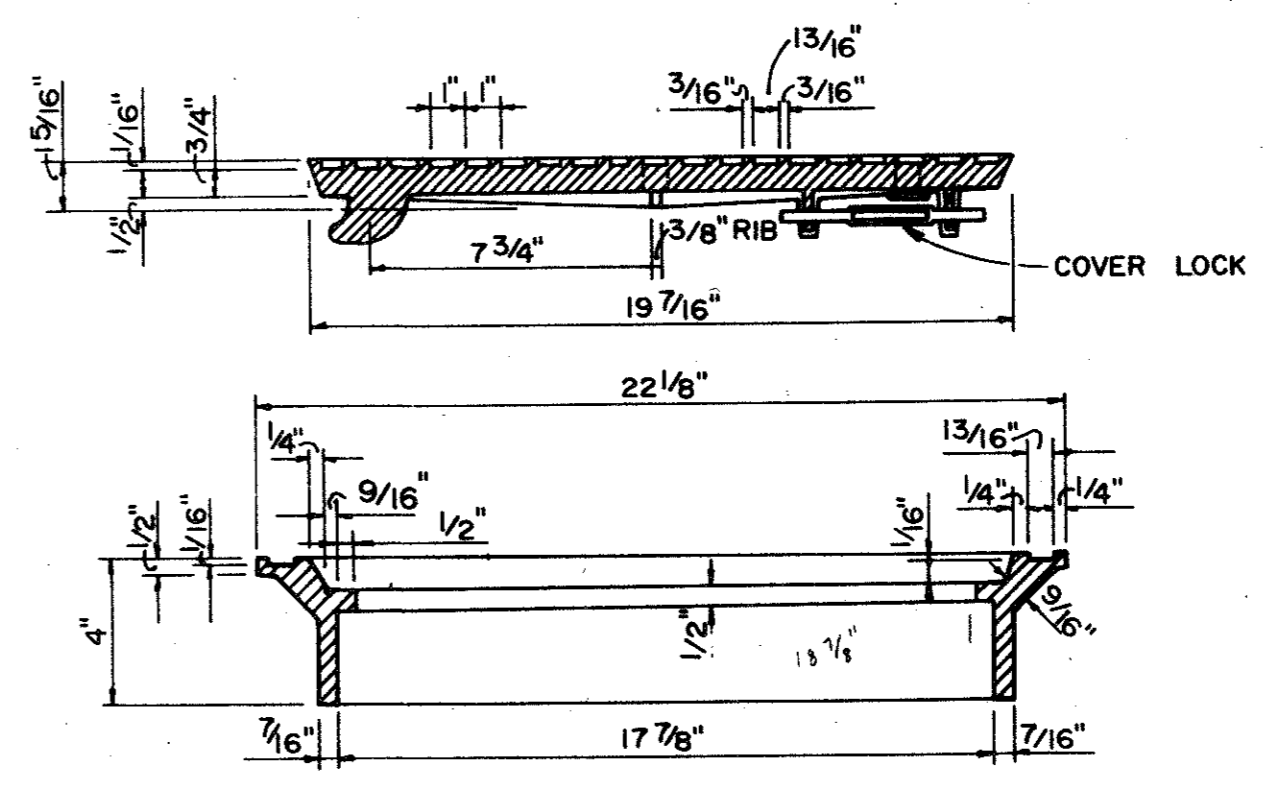
SECTION D-D



10 AND 14 FOOT INLETS

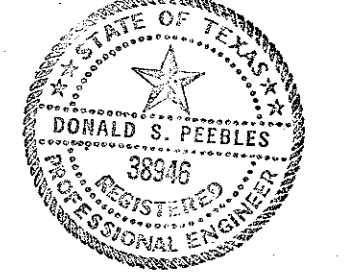


PLAN OF FRAME



SECTION OF FRAME AND COVER

INLET FRAME AND COVER



QUORUM NORTH

STANDARD CONSTRUCTION DETAILS

STANDARD (TYPE I) AND RECESSED (TYPE II) INLETS

DEPARTMENT OF PUBLIC WORKS

CITY OF ADDISON, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	SHEET NO.
WSP		9-7-79	NONE		424 Q	19 of 19