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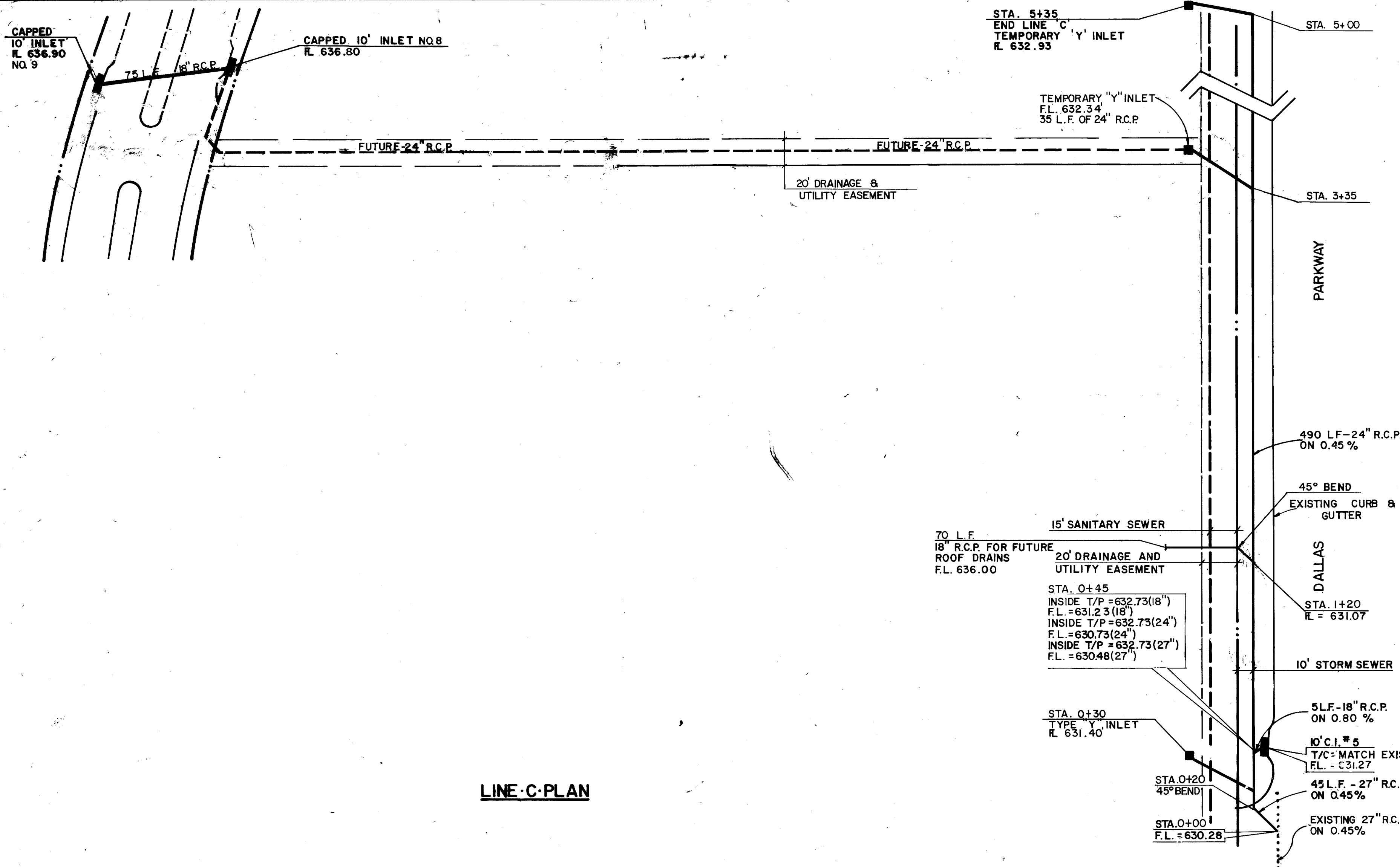
QUORUM

ADDISON, TEXAS

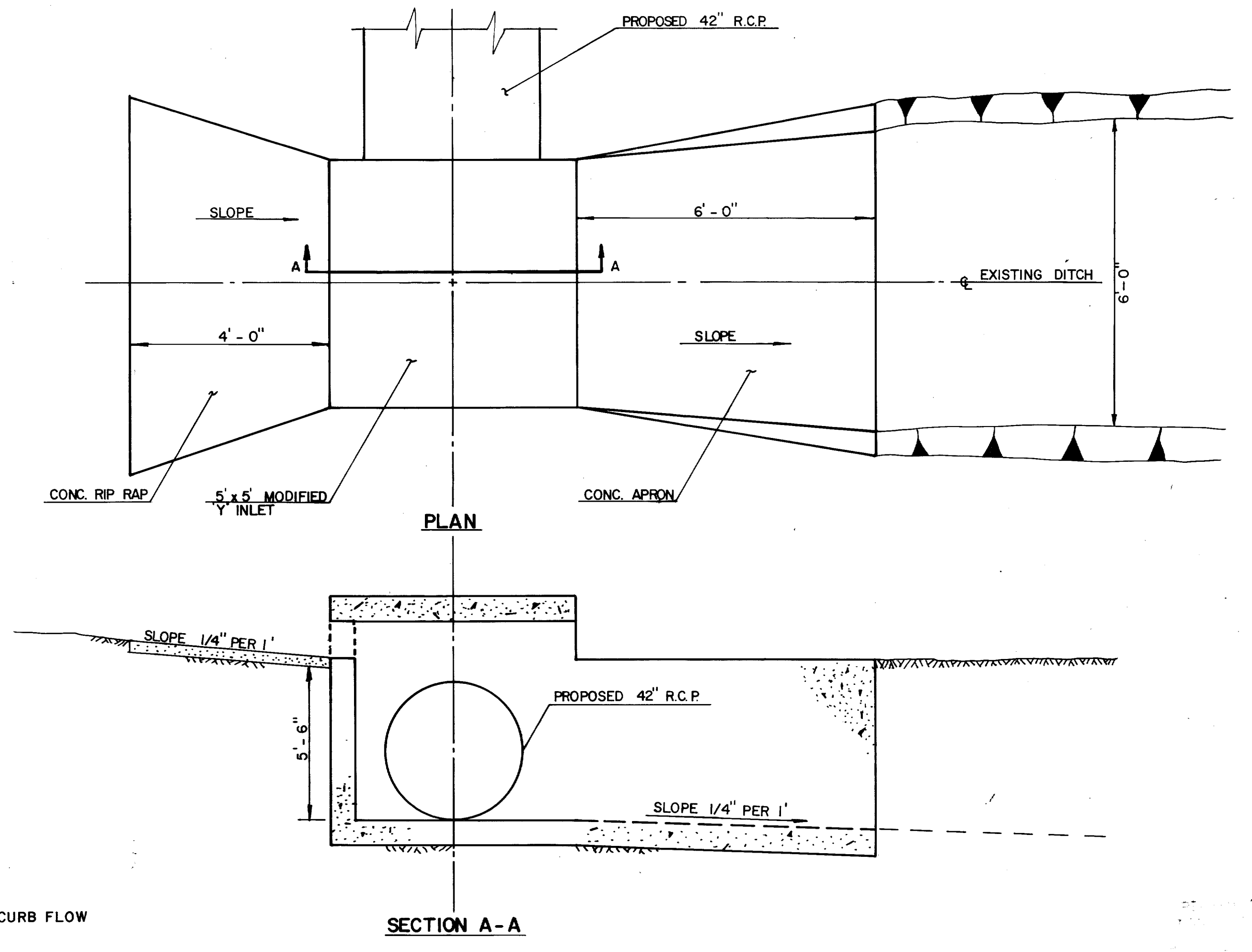
DAON CORPORATION: DEVELOPER

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

DATE TO CONFORM TO
 CONSTRUCTION RECORDS:
 BY: RL
 DATE: 8/6/80

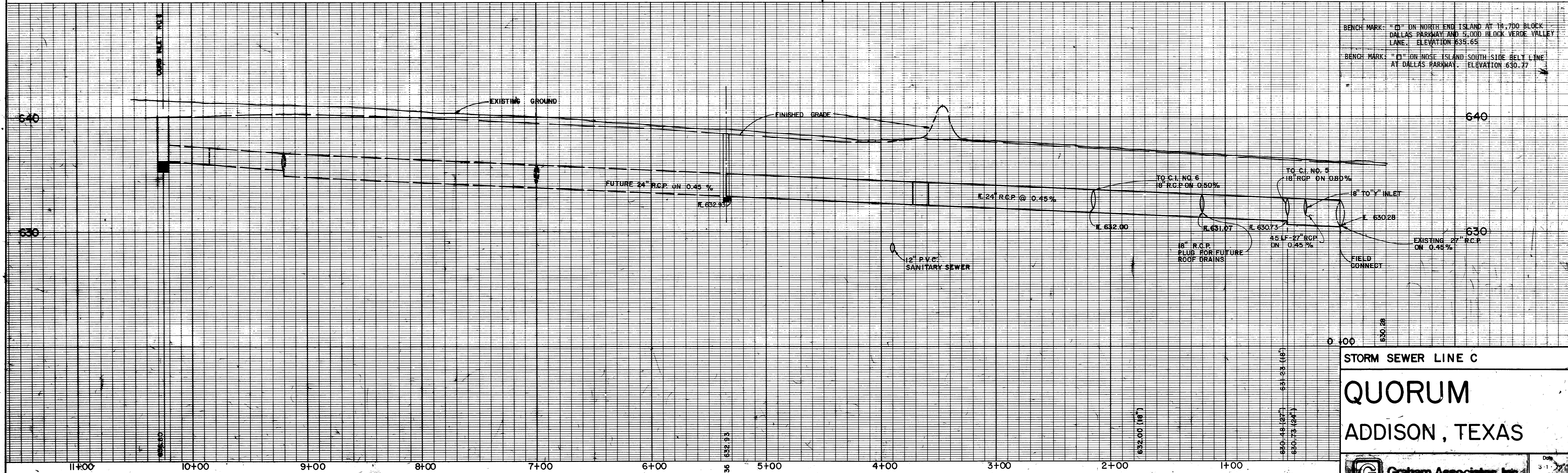


LINE C PLAN



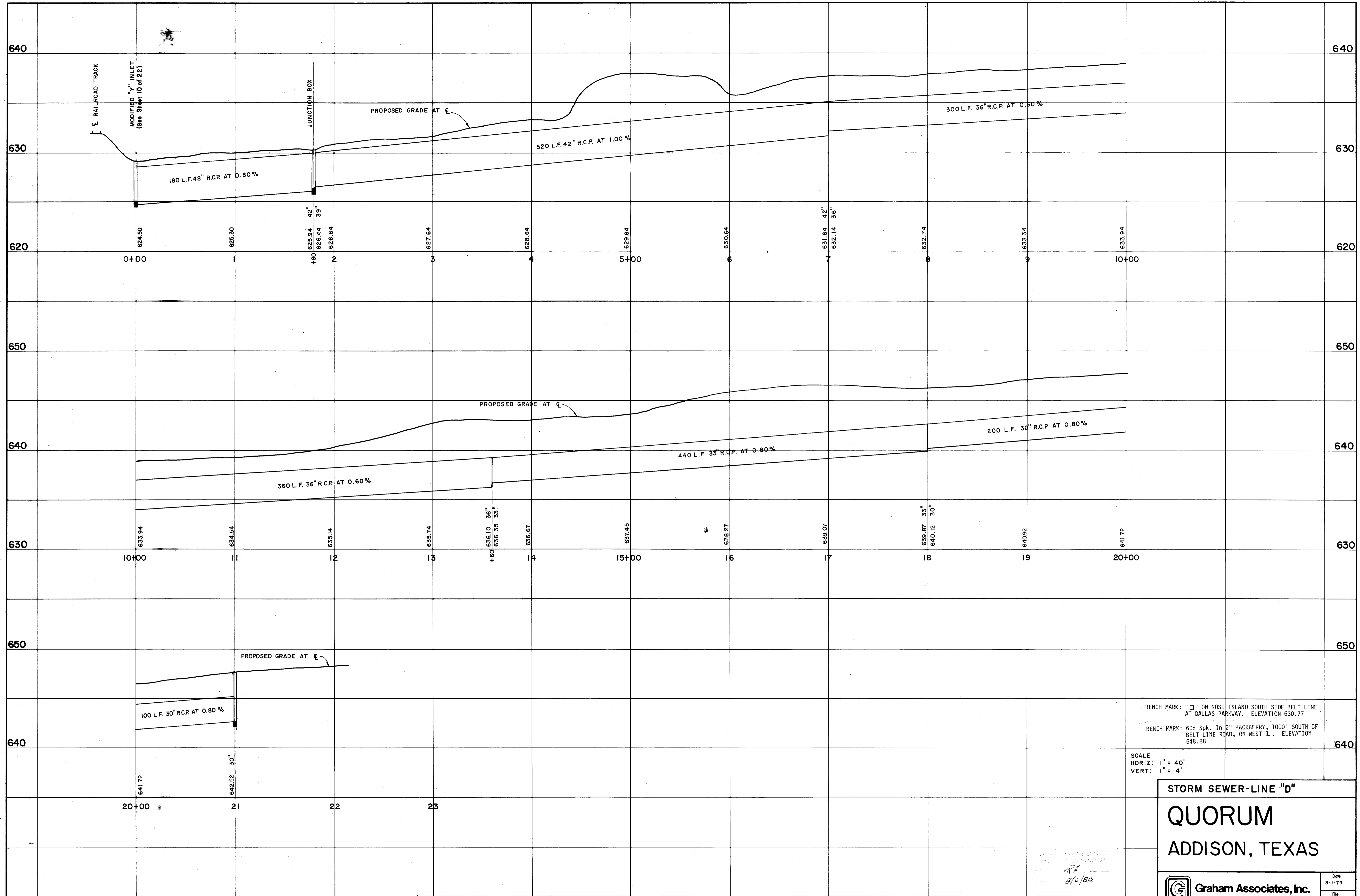
MODIFIED "Y" INLET
SCALE: 1/2" = 1'
SEE SHEET 11 LINE 'd'

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



BENCH MARK: "D" ON NORTH END ISLAND AT 14,700 BLOCK DALLAS PARKWAY AND 4,000 BLOCK VERDE VALLEY LANE. ELEVATION 635.65
BENCH MARK: "E" ON NOSE ISLAND SOUTH SIDE BELT LINE AT DALLAS PARKWAY. ELEVATION 630.77

STORM SEWER LINE C
QUORUM
ADDISON, TEXAS



BENCH MARK: "□" ON NOSE ISLAND SOUTH SIDE BELT LINE AT DALLAS PARKWAY. ELEVATION 630.77
 BENCH MARK: 60d Spk. In 2" HACKBERRY, 1000' SOUTH OF BELT LINE ROAD, ON WEST R. ELEVATION 648.88

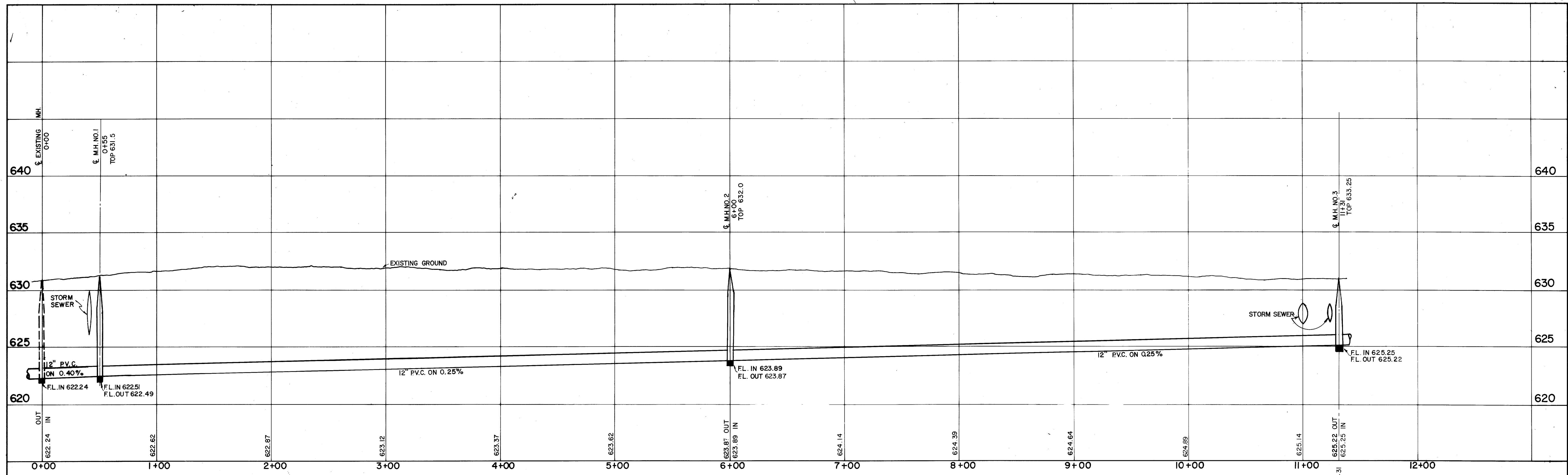
SCALE
 HORIZ: 1" = 40'
 VERT: 1" = 4'

STORM SEWER-LINE "D"
QUORUM
ADDISON, TEXAS

Graham Associates, Inc.
 CONSULTING ENGINEERS & PLANNERS

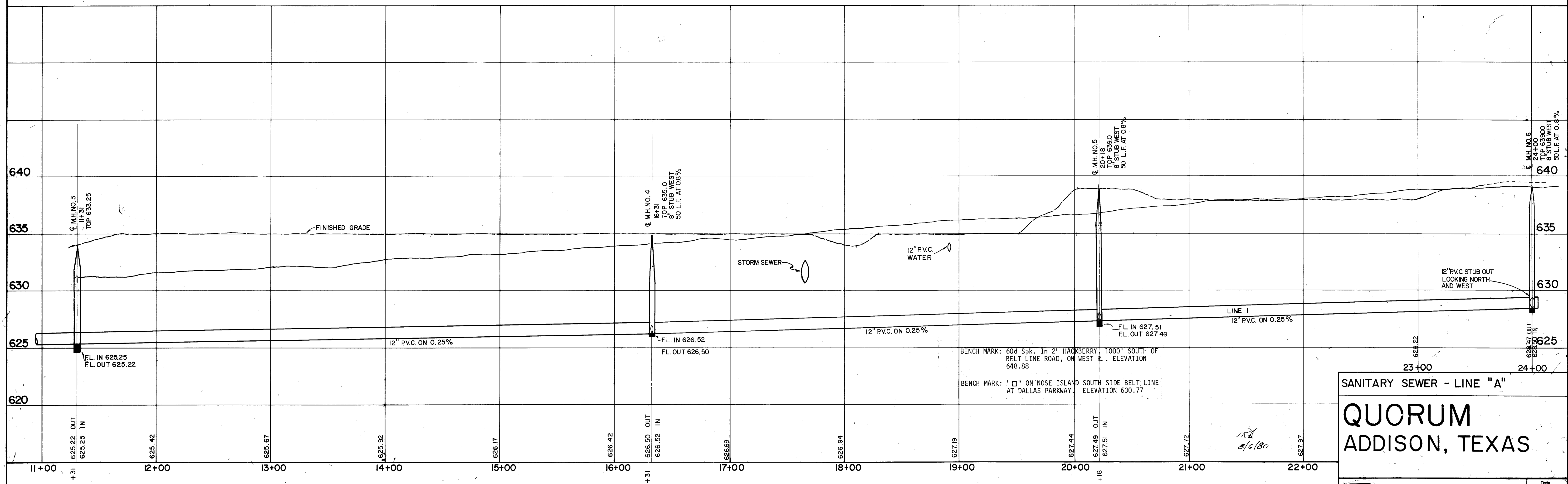
Date: 3-1-79
 File: 314-1437
 Drawn By: G.A.I. Sheet 11 Of 22

Handwritten: 8/6/80



LINE "A" PROFILE

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



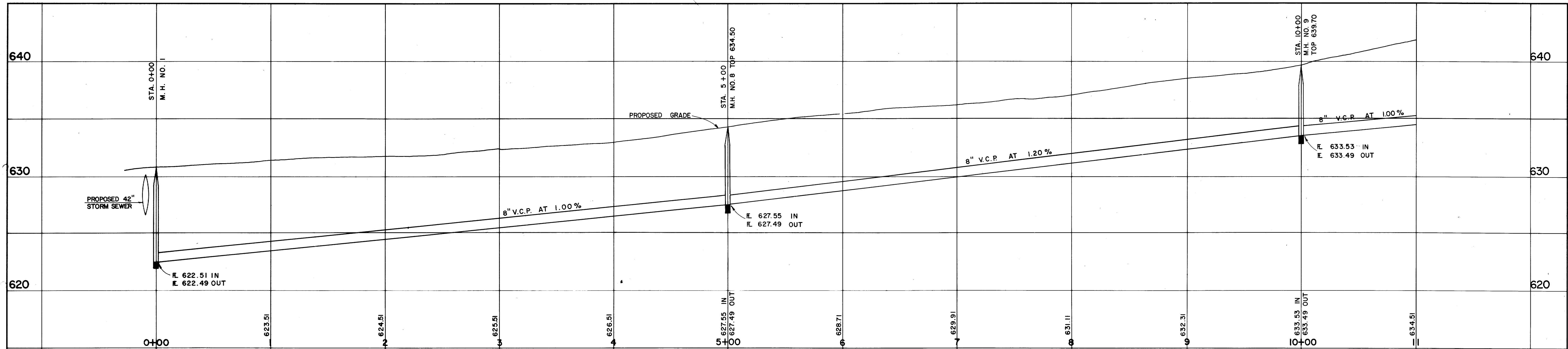
LINE "A" PROFILE

BENCH MARK: 60d Spk. in 2" HACKBERRY, 1000' SOUTH OF BELT LINE ROAD, ON WEST L. ELEVATION 648.88
BENCH MARK: "□" ON NOSE ISLAND SOUTH SIDE BELT LINE AT DALLAS PARKWAY. ELEVATION 630.77

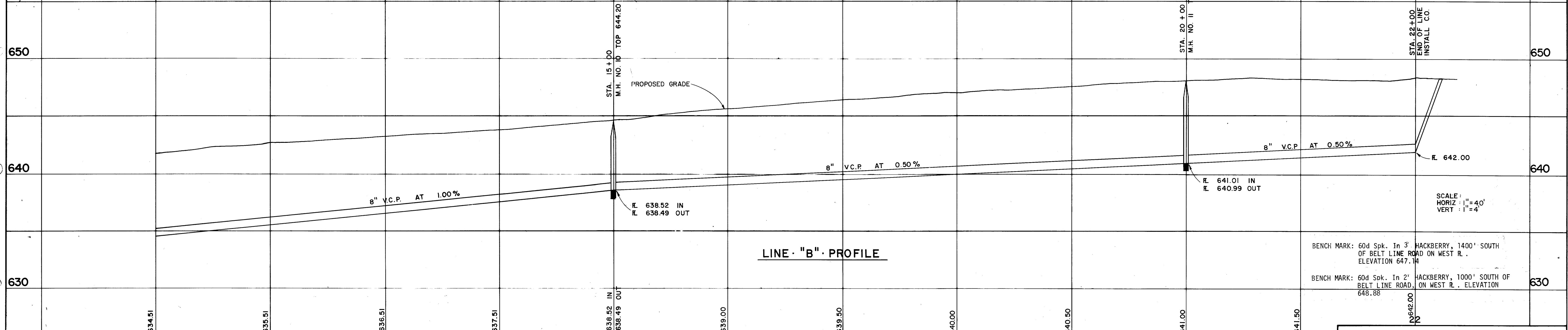
SANITARY SEWER - LINE "A"
QUORUM
ADDISON, TEXAS

Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

Date: 3-1-79
File: 314 1437
Sheet 12 of 22



LINE "B" PROFILE



LINE "B" PROFILE

BENCH MARK: 60d Spk. In 3' HACKBERRY, 1400' SOUTH OF BELT LINE ROAD ON WEST R. ELEVATION 647.14
 BENCH MARK: 60d Spk. In 2' HACKBERRY, 1000' SOUTH OF BELT LINE ROAD, ON WEST R. ELEVATION 648.88

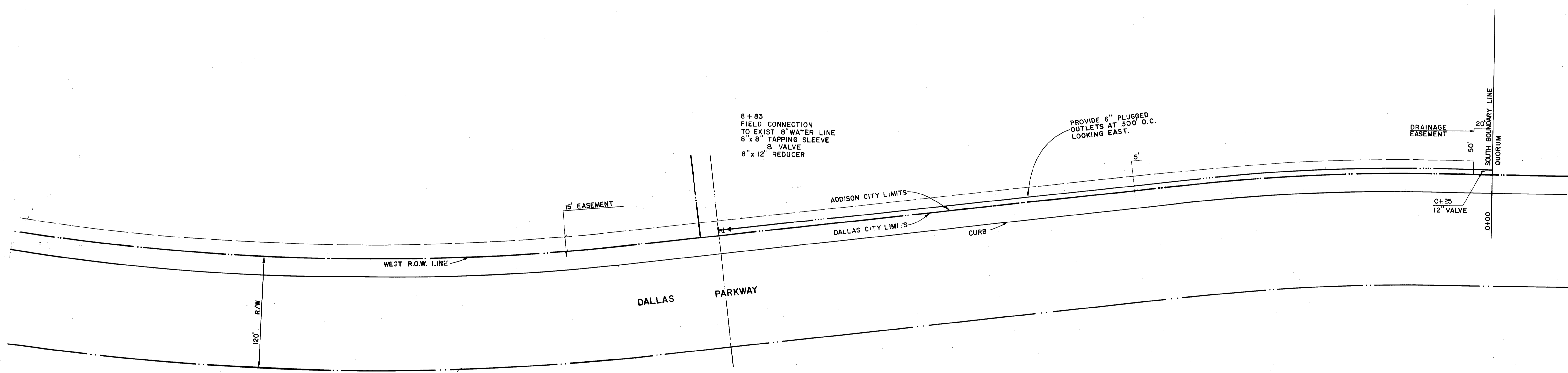
SCALE:
 HORIZ : 1" = 40'
 VERT : 1" = 4'

SANITARY SEWER - LINE "B"
 QUORUM
 ADDISON, TEXAS

Revised to conform to
 8/6/80

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Date: 3-1-79
 File: 314-1437
 Drawn By: G. A. I. Sheet 13 OF 22



8+83
FIELD CONNECTION
TO EXIST. 8" WATER LINE
8" x 8" TAPPING SLEEVE
8" VALVE
8" x 12" REDUCER

PROVIDE 6" PLUGGED
OUTLETS AT 300' O.C.
LOOKING EAST.

DRAINAGE
EASEMENT

20'
50'
SOUTH BOUNDARY LINE
QUORUM

0+25
12" VALVE

0+00

15' EASEMENT

ADDISON CITY LIMITS

DALLAS CITY LIMITS

CURB

WEST R.O.W. LINE

DALLAS PARKWAY

120' R/W

5'



SCALE: 1" = 50'

RH
2/2/80

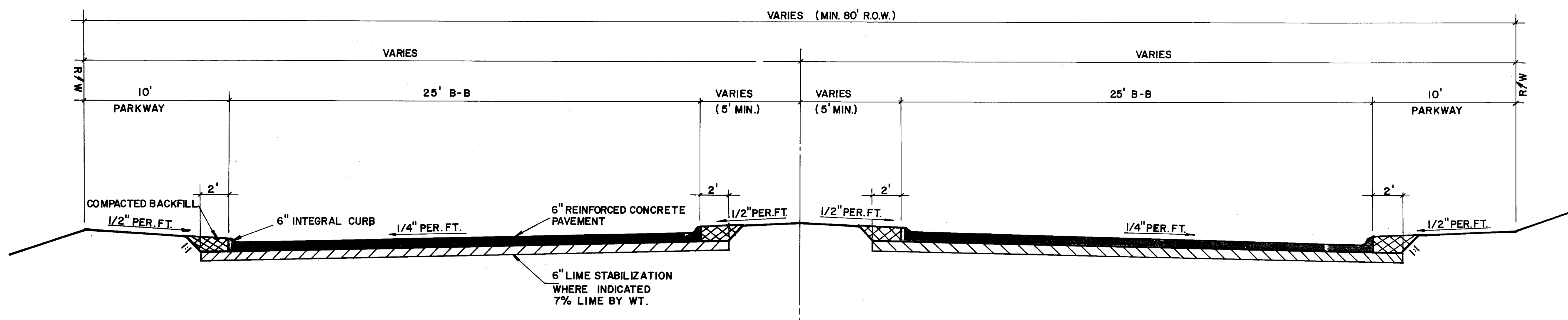
WATER MAIN (OFF SITE)

QUORUM
ADDISON, TEXAS

Graham Associates, Inc.
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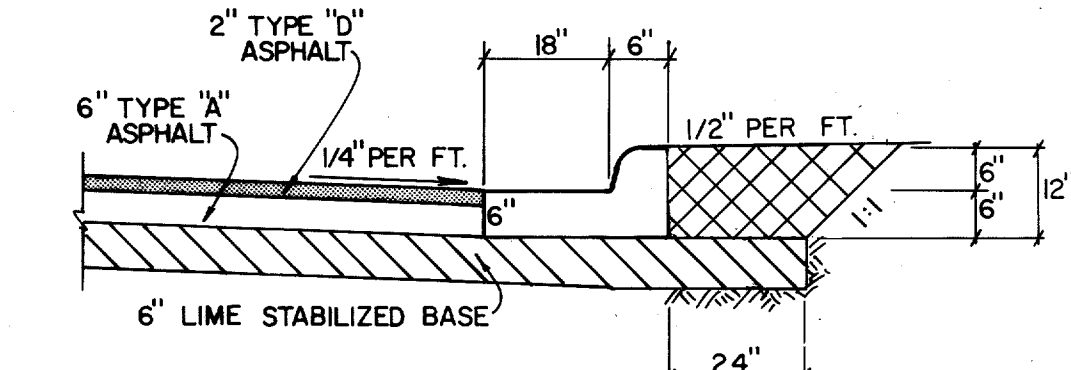
Drawn By: G.A.L. Sheet 14 of 22

Date
3-1-79
File
314-1437

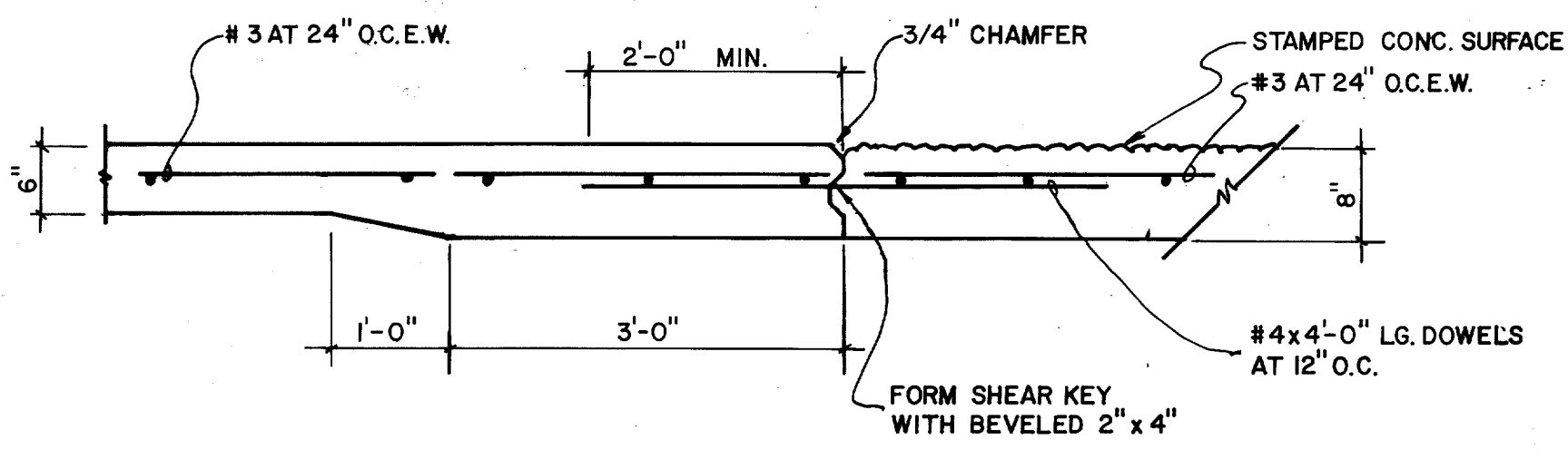


TYPICAL PAVEMENT & GRADING SECTION - SECTION X-X

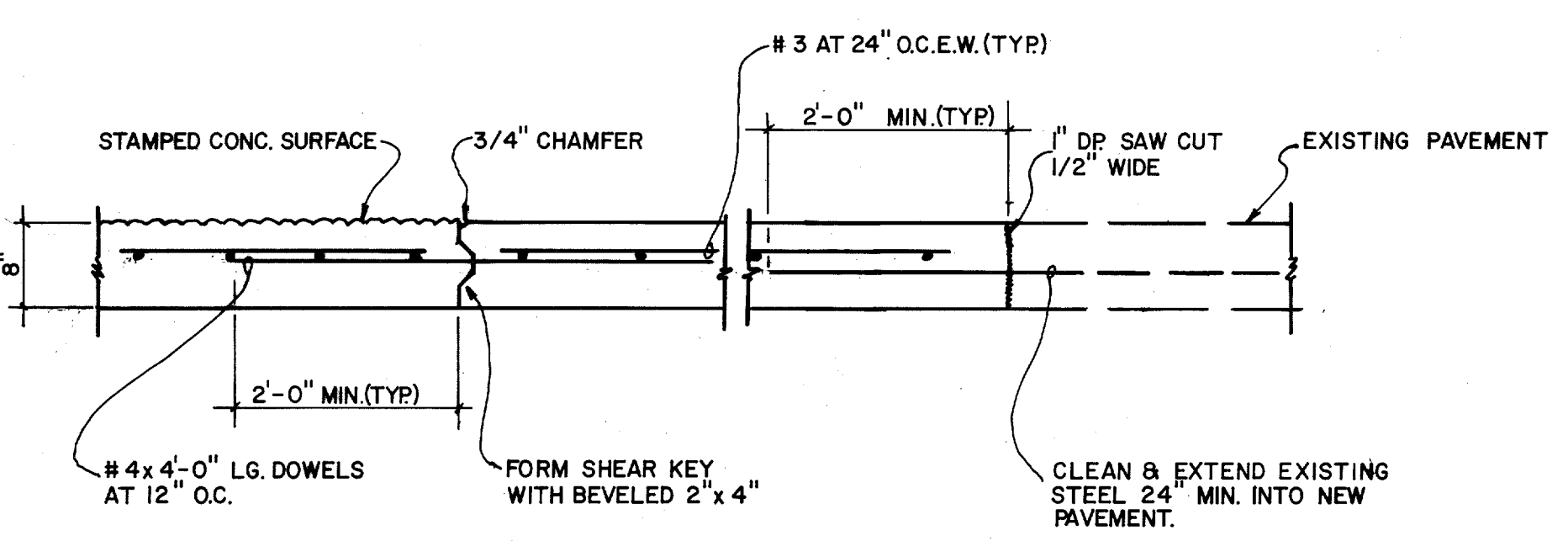
NOTE: CONCRETE SHALL BE 3,000 P.S.I. AT 28 DAYS. LIME SHALL BE SLURRY MIXED PRIOR TO APPLICATION. REINFORCING SHALL BE NO. 3 AT 24" O.C.E.W.



ALTERNATE ASPHALT PAVEMENT SECTION

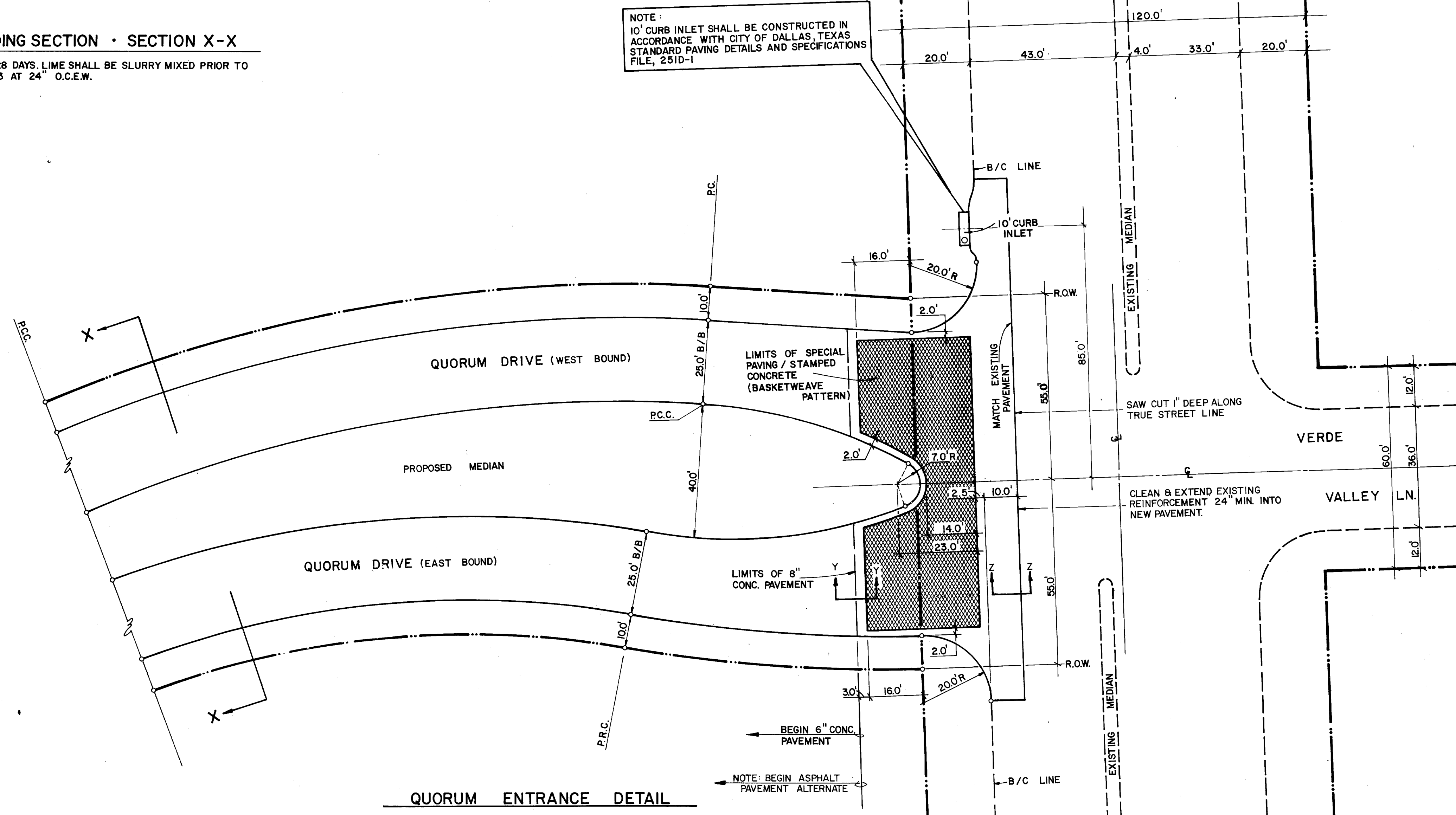


SECTION Y-Y

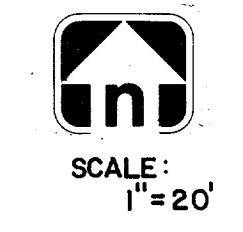


SECTION Z-Z

NOTE: 10' CURB INLET SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF DALLAS, TEXAS STANDARD PAVING DETAILS AND SPECIFICATIONS FILE, 251D-1



QUORUM ENTRANCE DETAIL



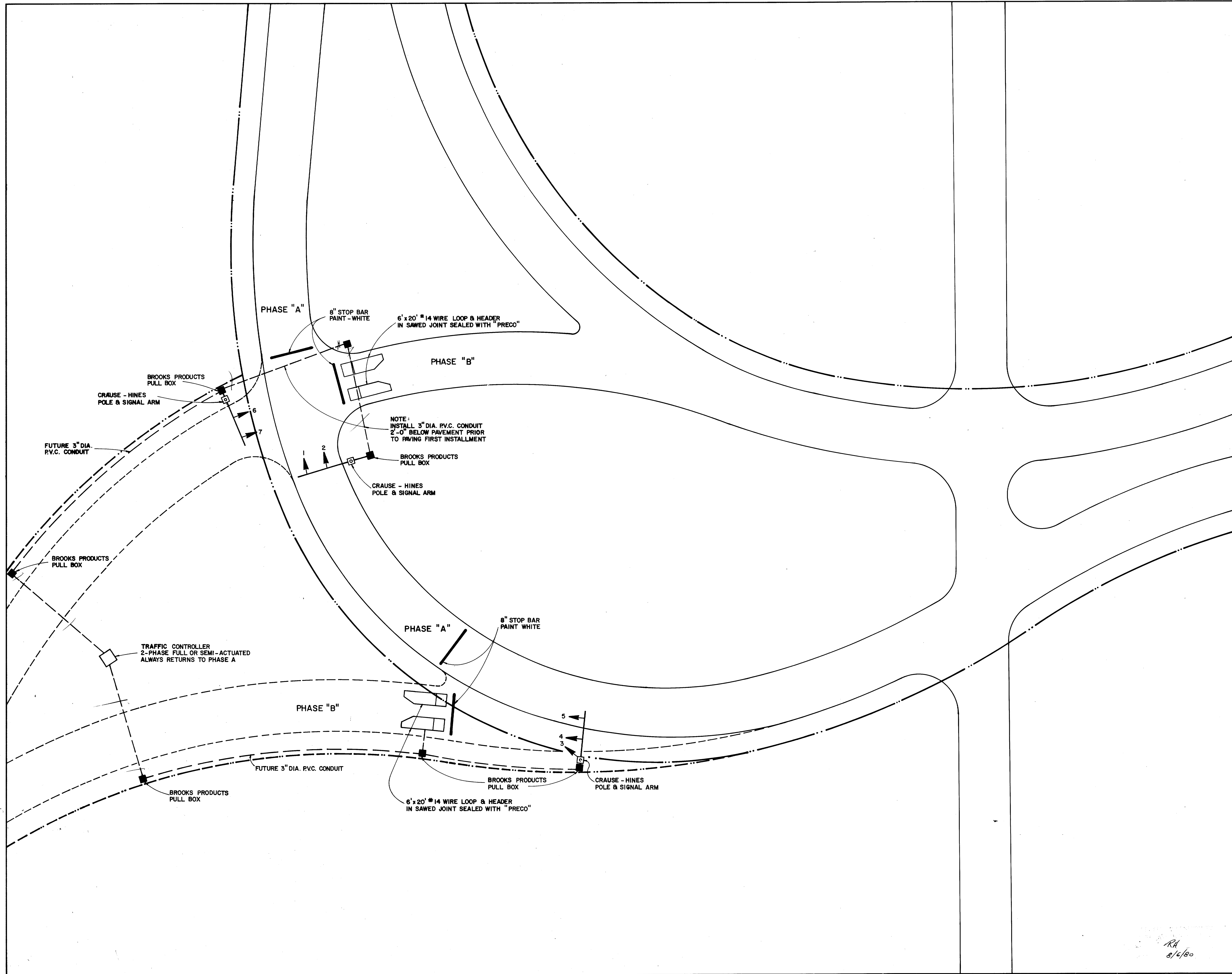
SCALE: 1" = 20'

REVISED TO COMPLY WITH CITY OF DALLAS, TEXAS STANDARD PAVING DETAILS AND SPECIFICATIONS FILE, 251D-1
 BY: [Signature]
 DATE: 8/1/89

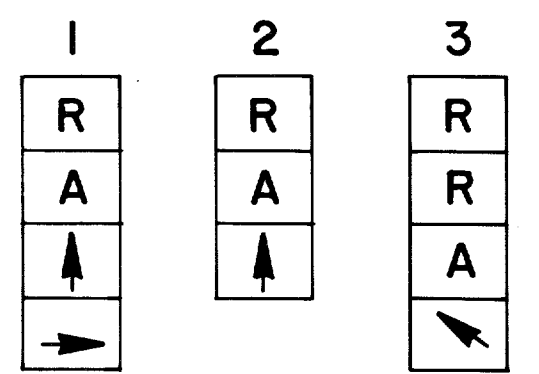
PAVING DETAILS
QUORUM
 ADDISON, TEXAS

Graham Associates, Inc.
 CONSULTING ENGINEERS & PLANNERS

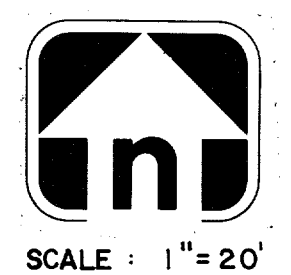
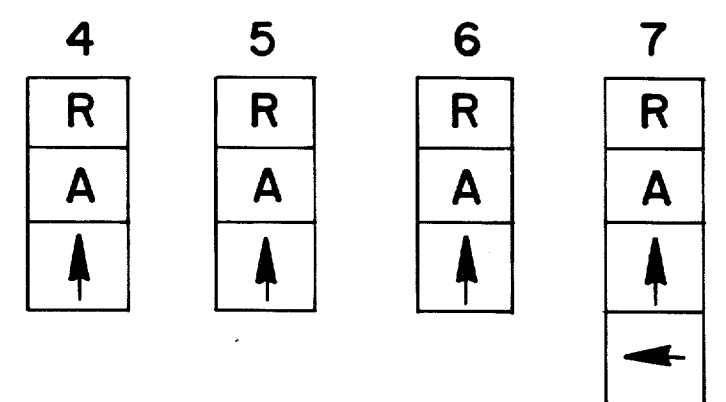
Date: 8-1-79
 File: 314-1437
 Drawn By: G.A.I. Sheet 15 Of 22



PHASE "A"



PHASE "B"



SCALE : 1" = 20'

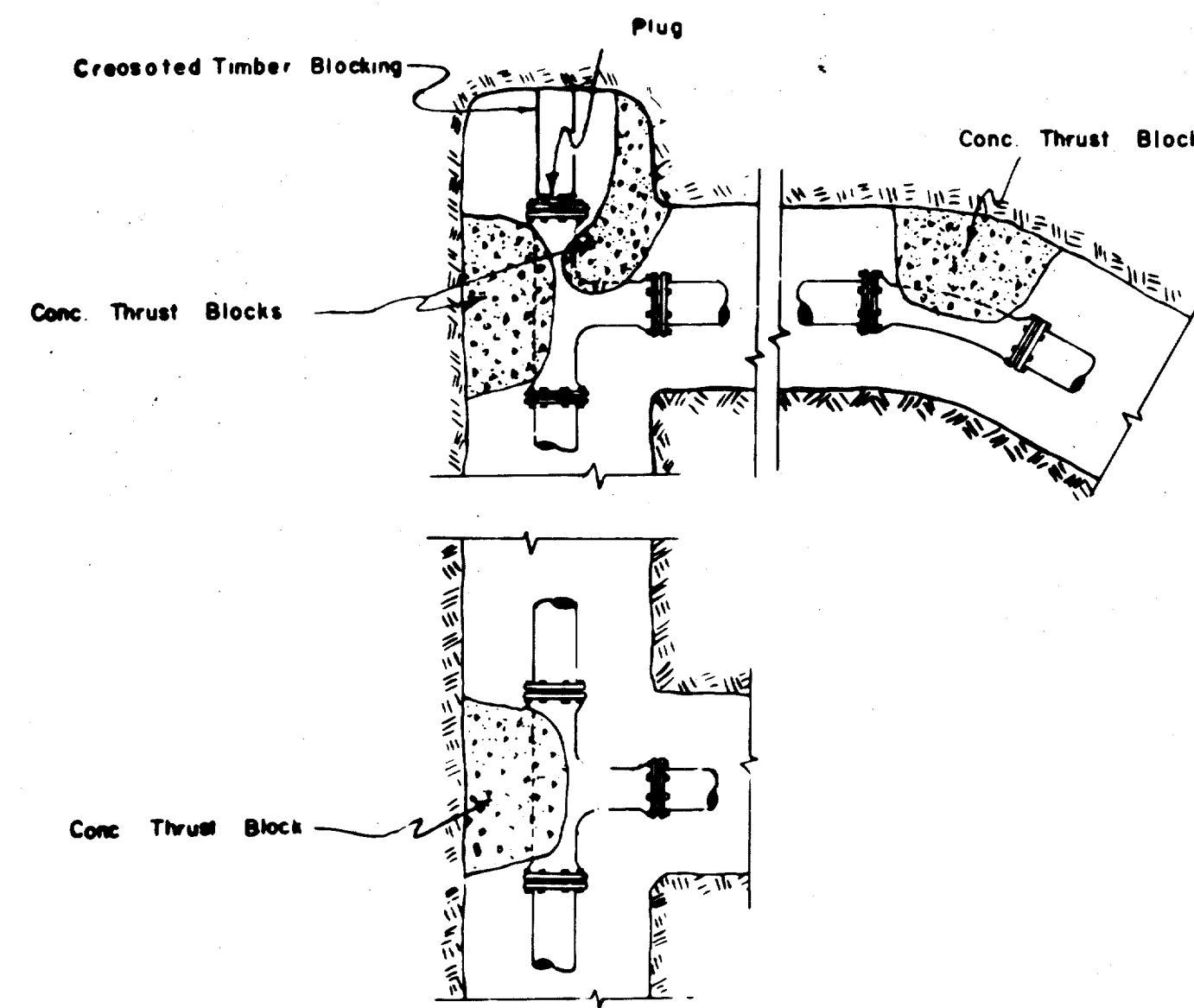
SIGNALIZATION PLAN

QUORUM
ADDISON, TEXAS

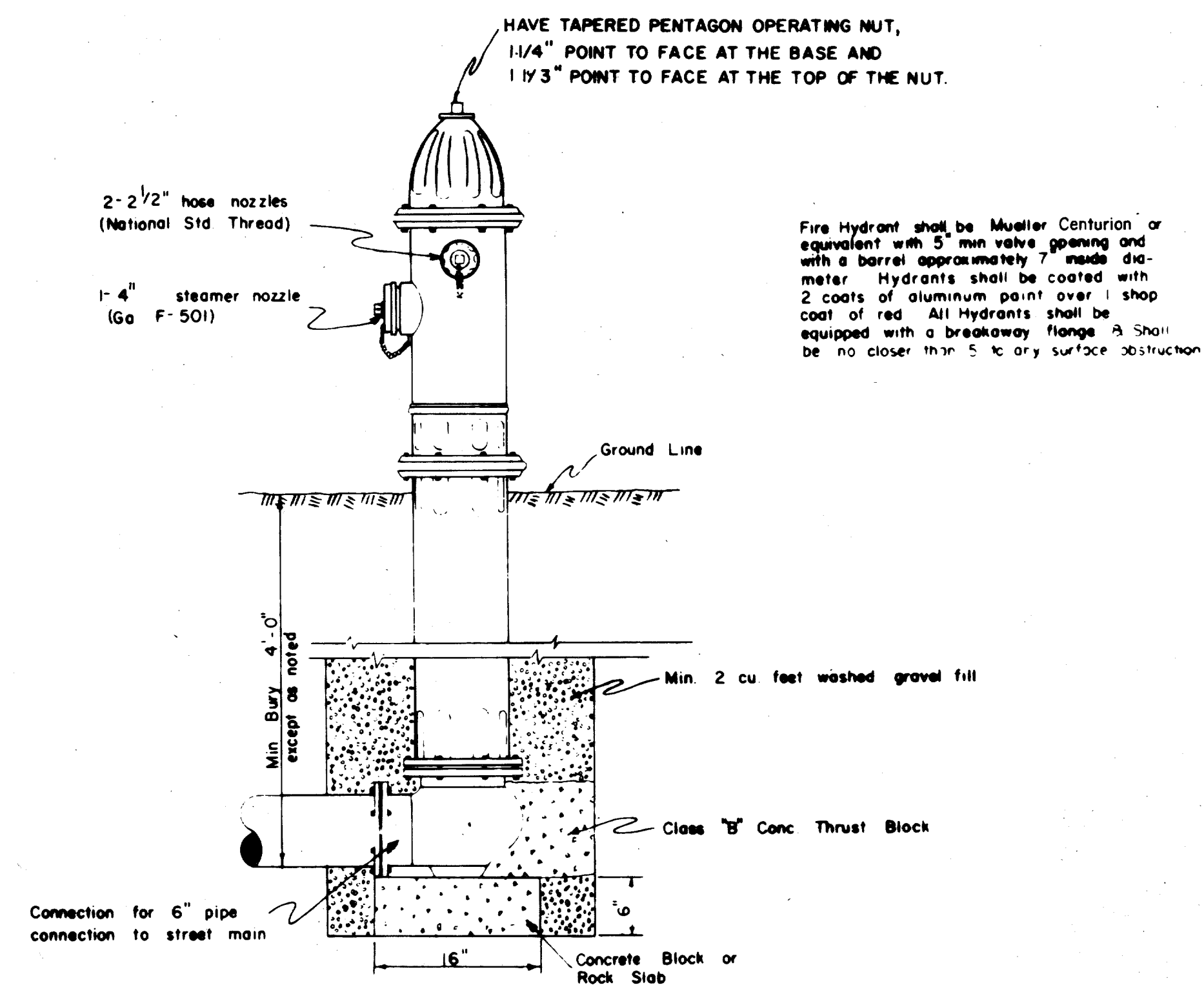
Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

Date
3-1-79
File
316 v457

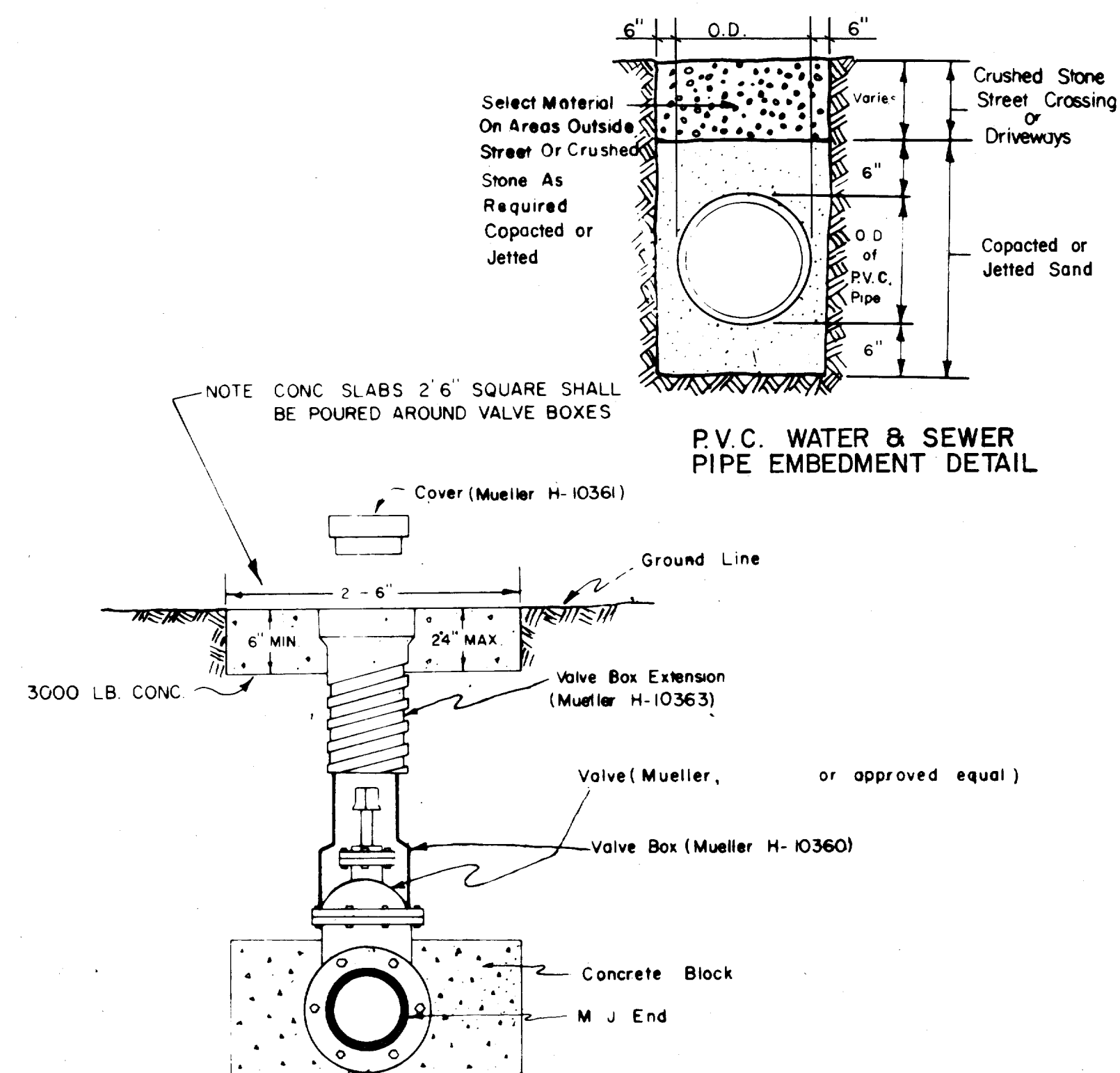
RA
8/6/80



TYPICAL THRUST BLOCK DETAILS



TYPICAL FIRE HYDRANT INSTALLATION



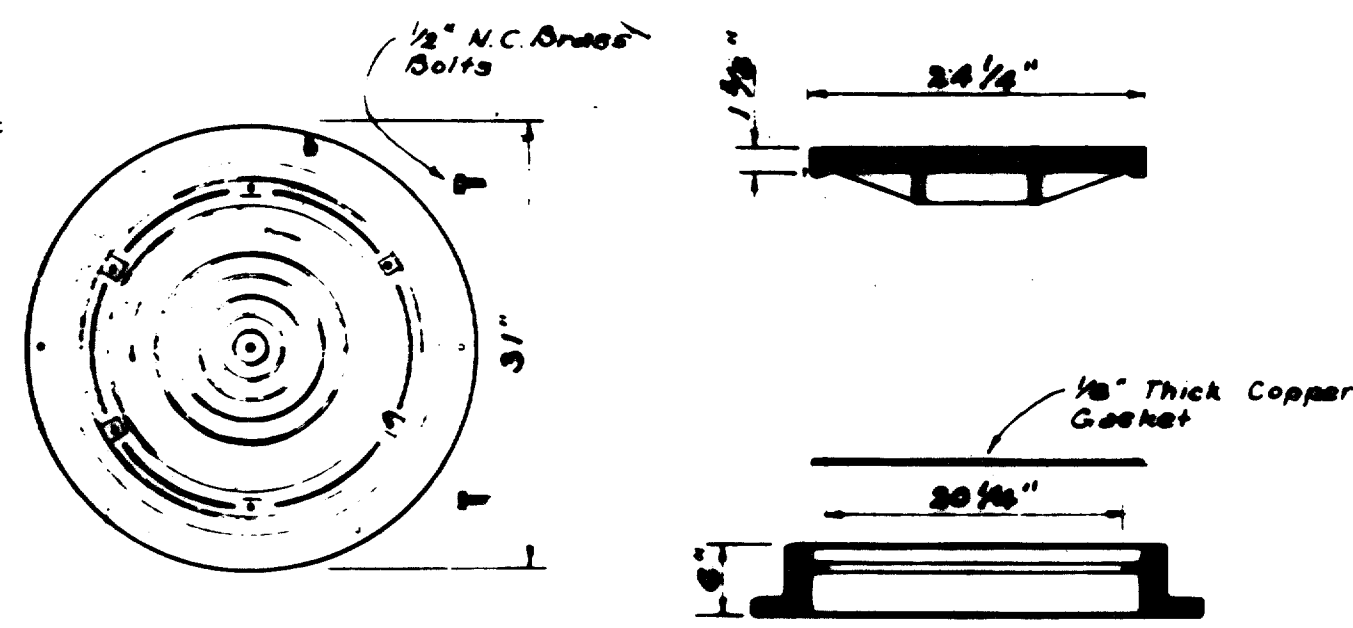
TYPICAL VALVE SETTING & VALVE BOX

WATER MAIN APPURTENANCES

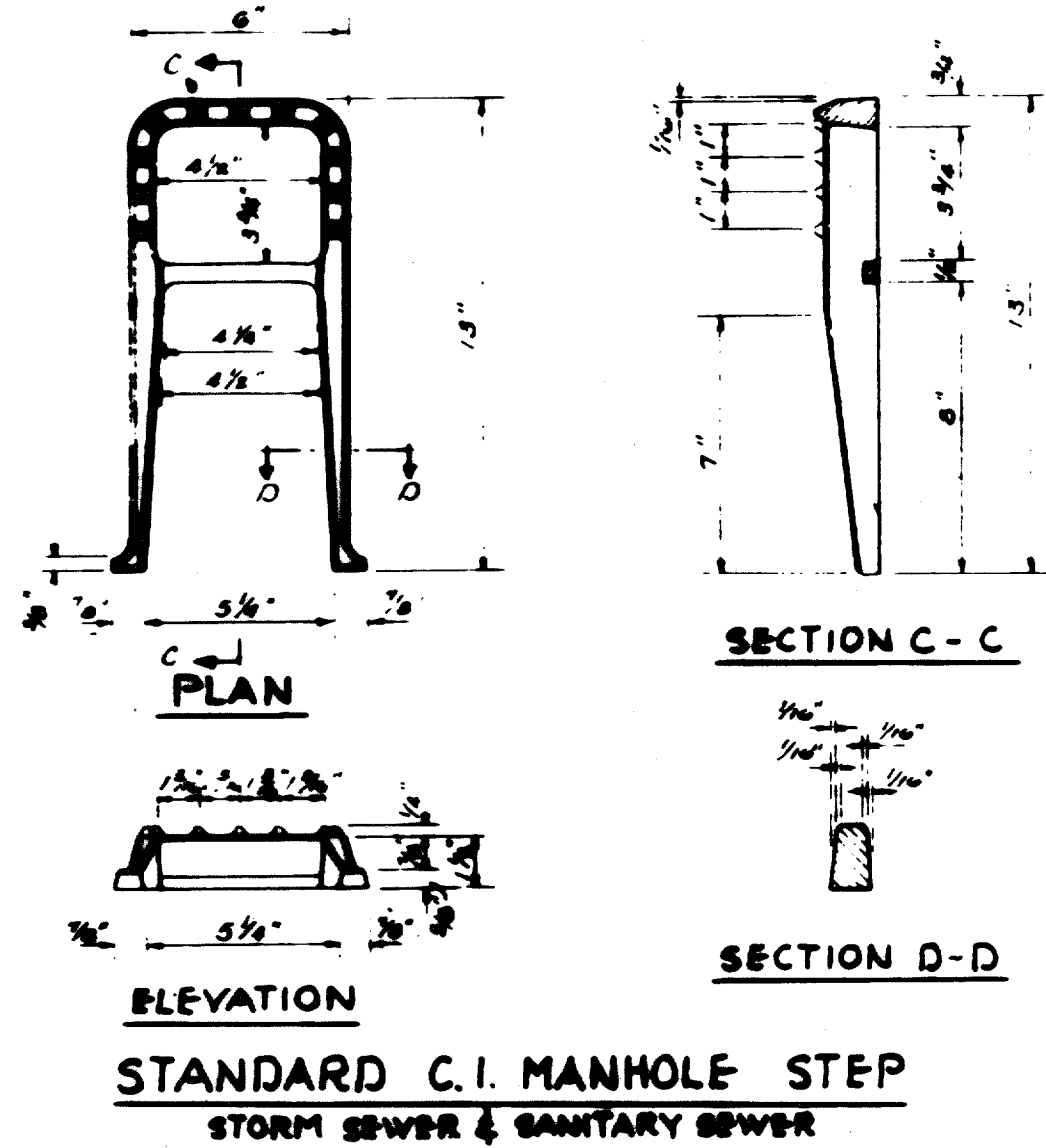
DETAIL OF WATER MAIN INSTALLATIONS

Graham Associates, Inc. CONSULTING ENGINEERS & PLANNERS

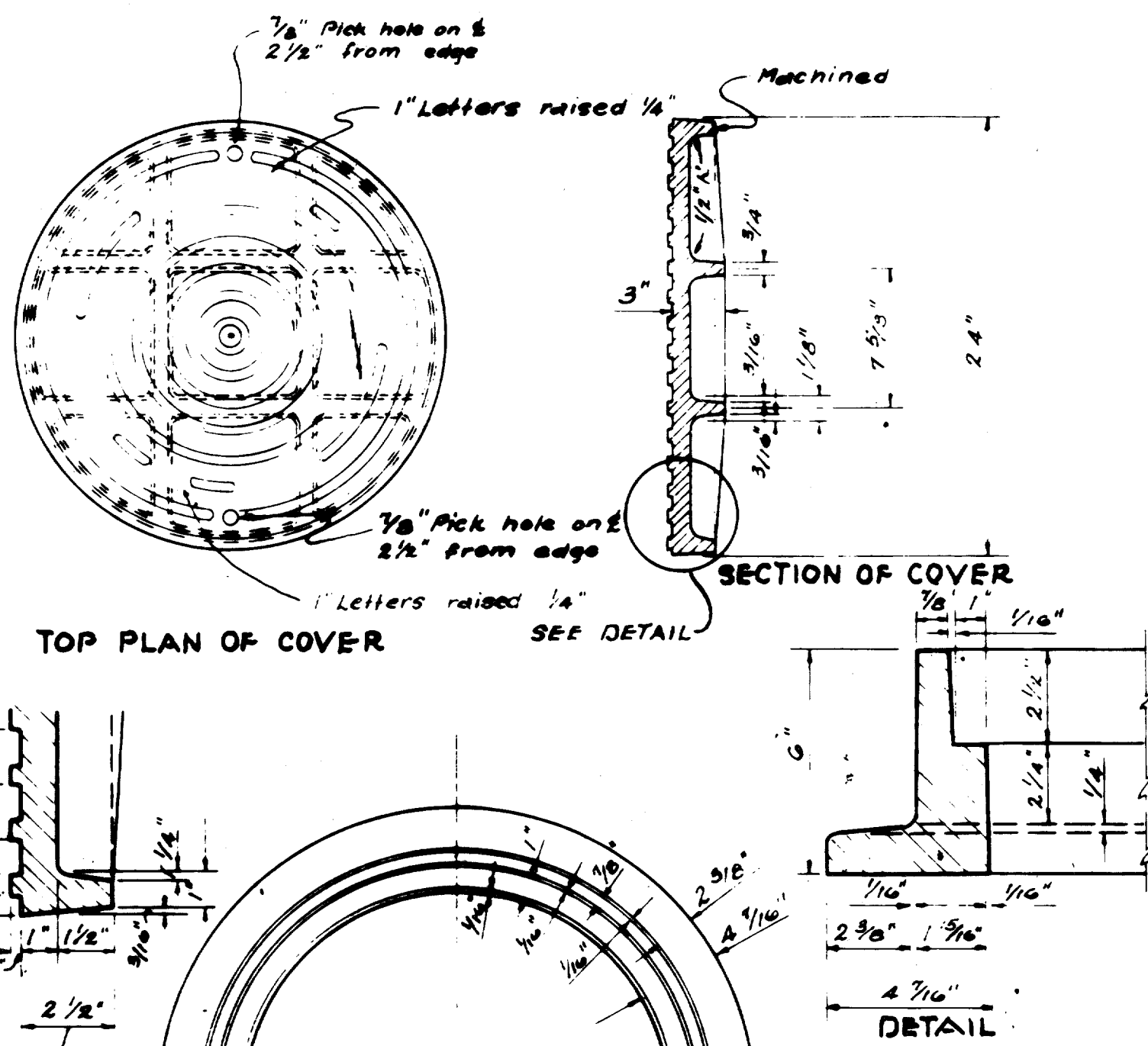
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J. D. H.	B. J. M.	D. P.	3-1-79	NONE	17 OF 22



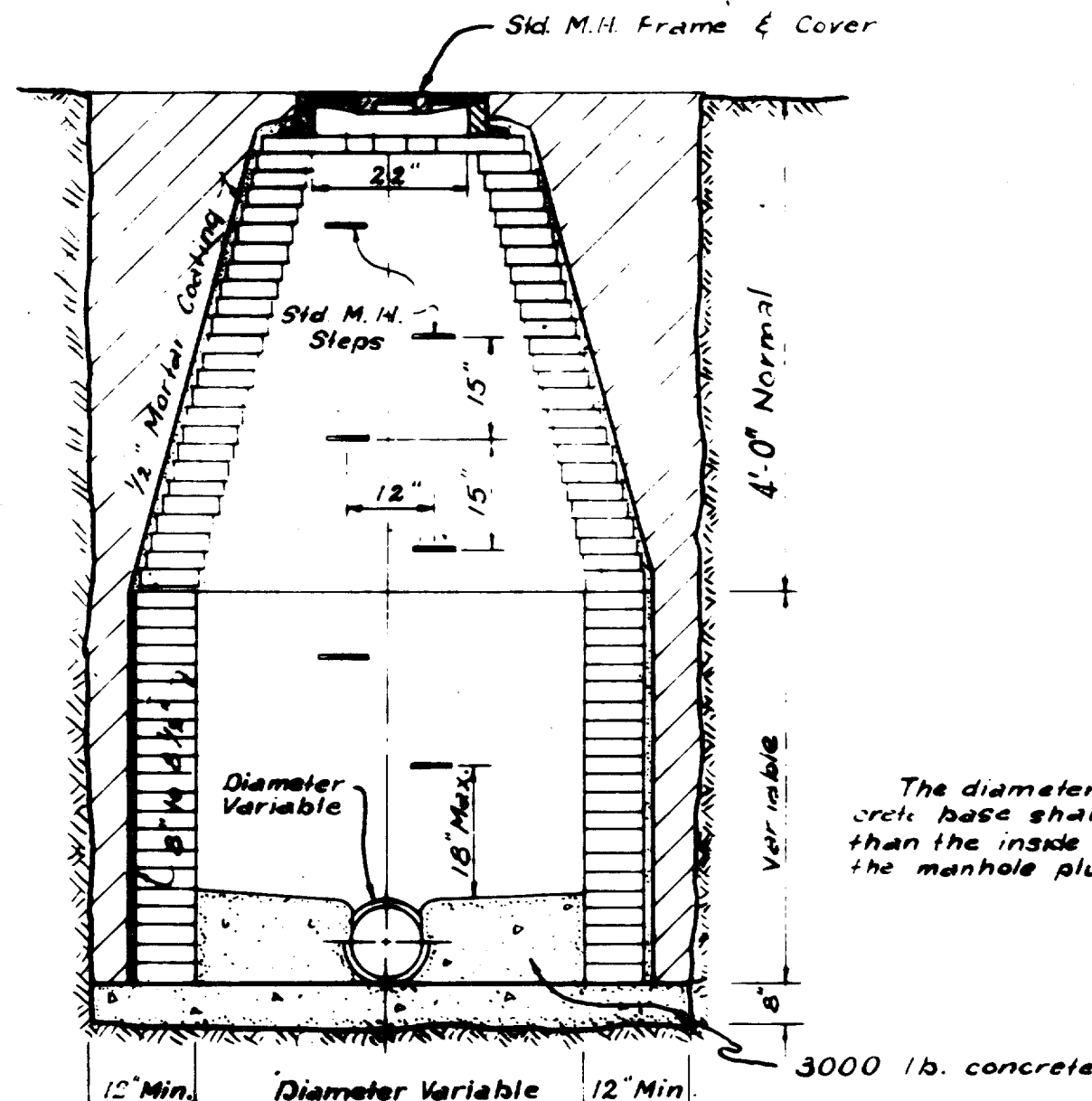
STANDARD WATER TIGHT - SOLID SEAL MANHOLE FRAME AND COVER
TO BE USED ON STANDARD MANHOLE
 As Manufactured by DALLAS FOUNDRY
 NC 975-2 or approved equal.
 Wgt 410 pounds.



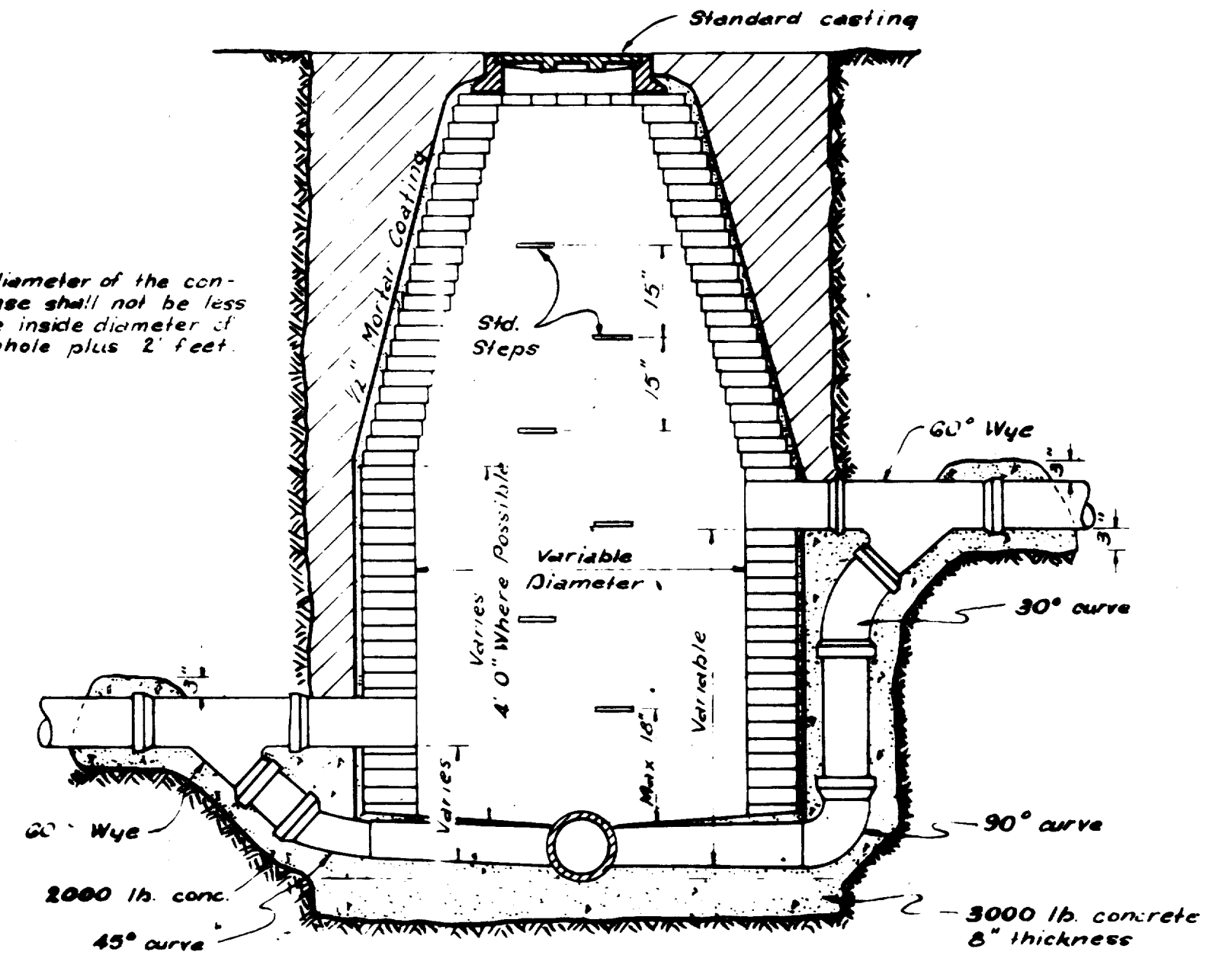
STANDARD C.I. MANHOLE STEP
 STORM SEWER & SANITARY SEWER



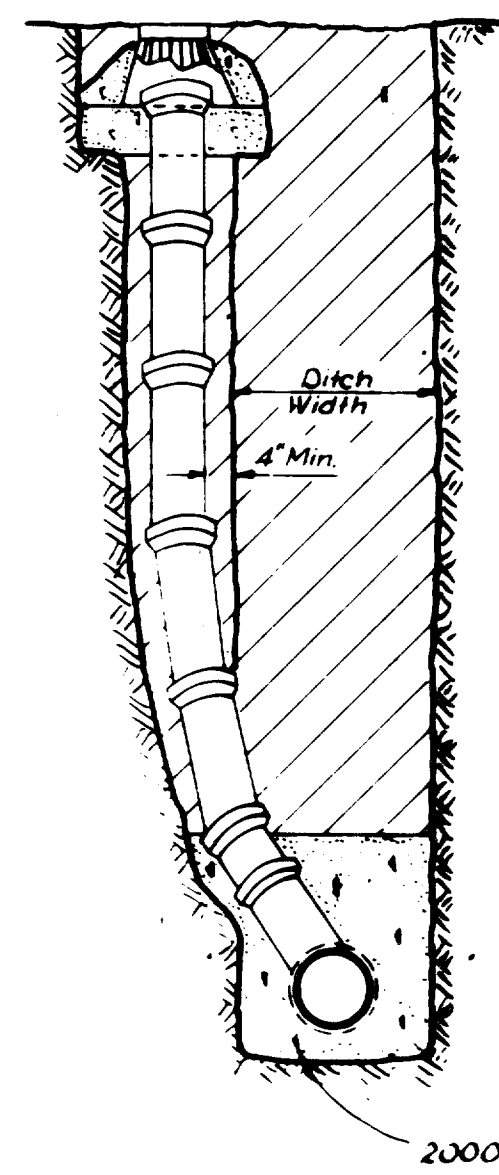
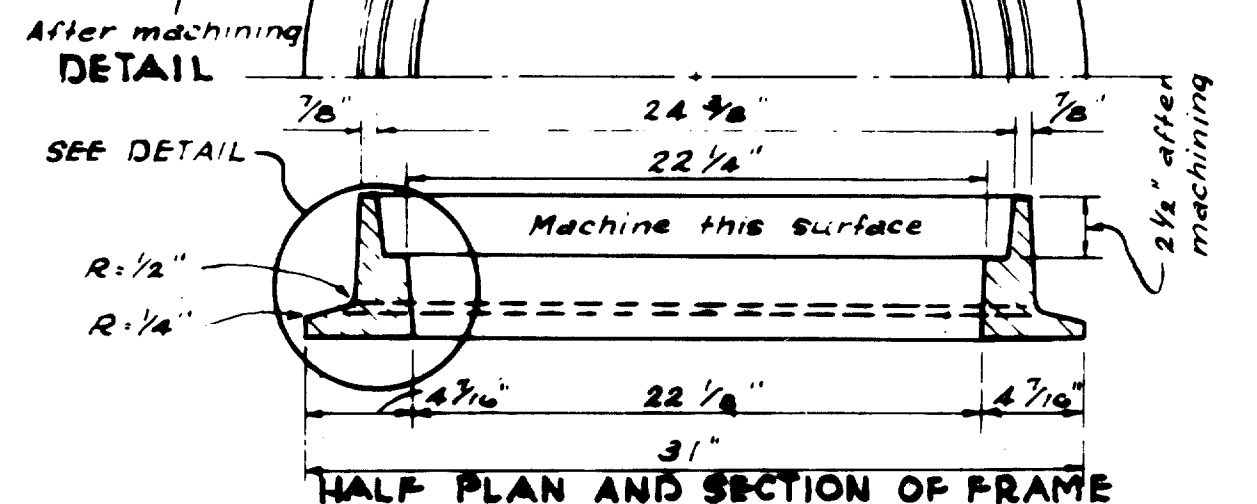
STANDARD C.I. MANHOLE FRAME & COVER
 As Manufactured by DALLAS FOUNDRY NO 100-8 or
 approved equal. Wgt 100 pounds.



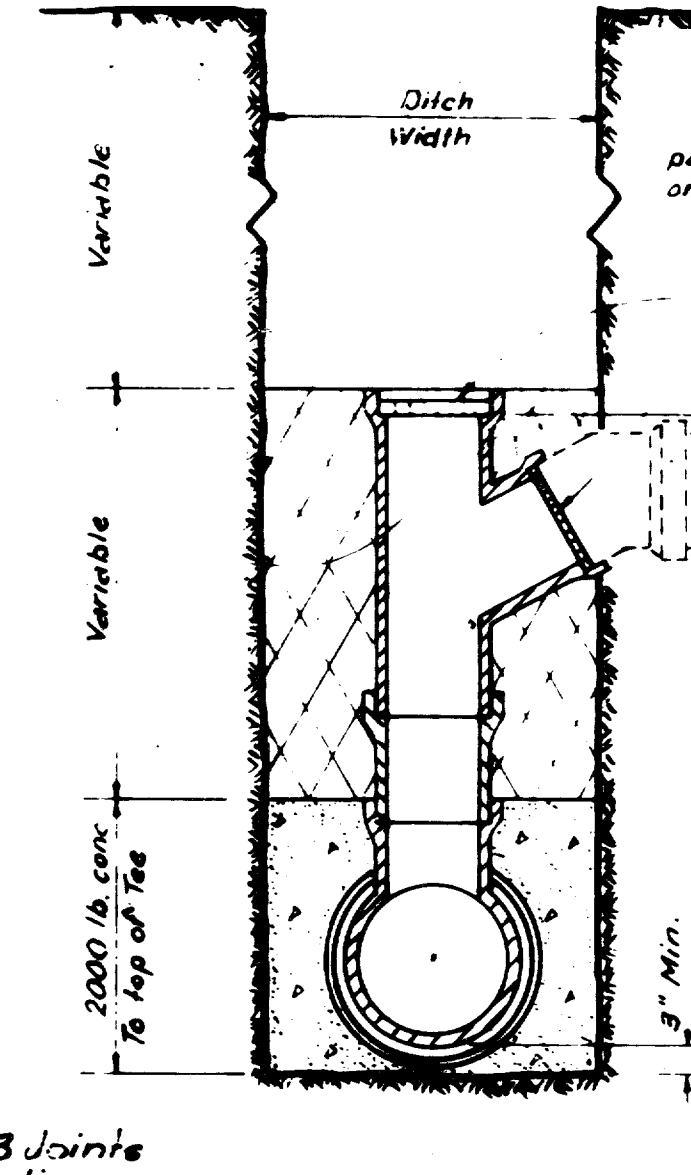
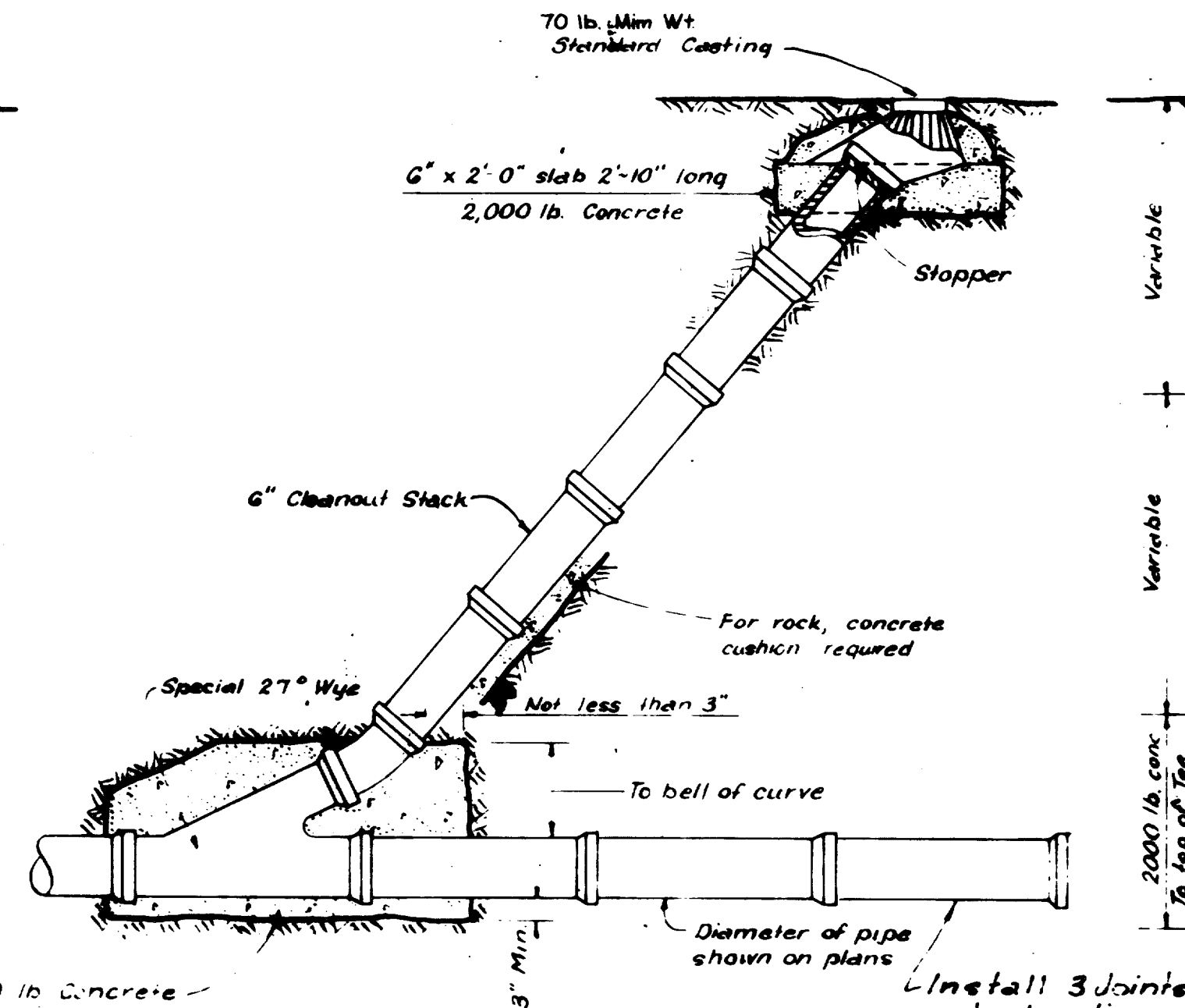
STANDARD MANHOLE



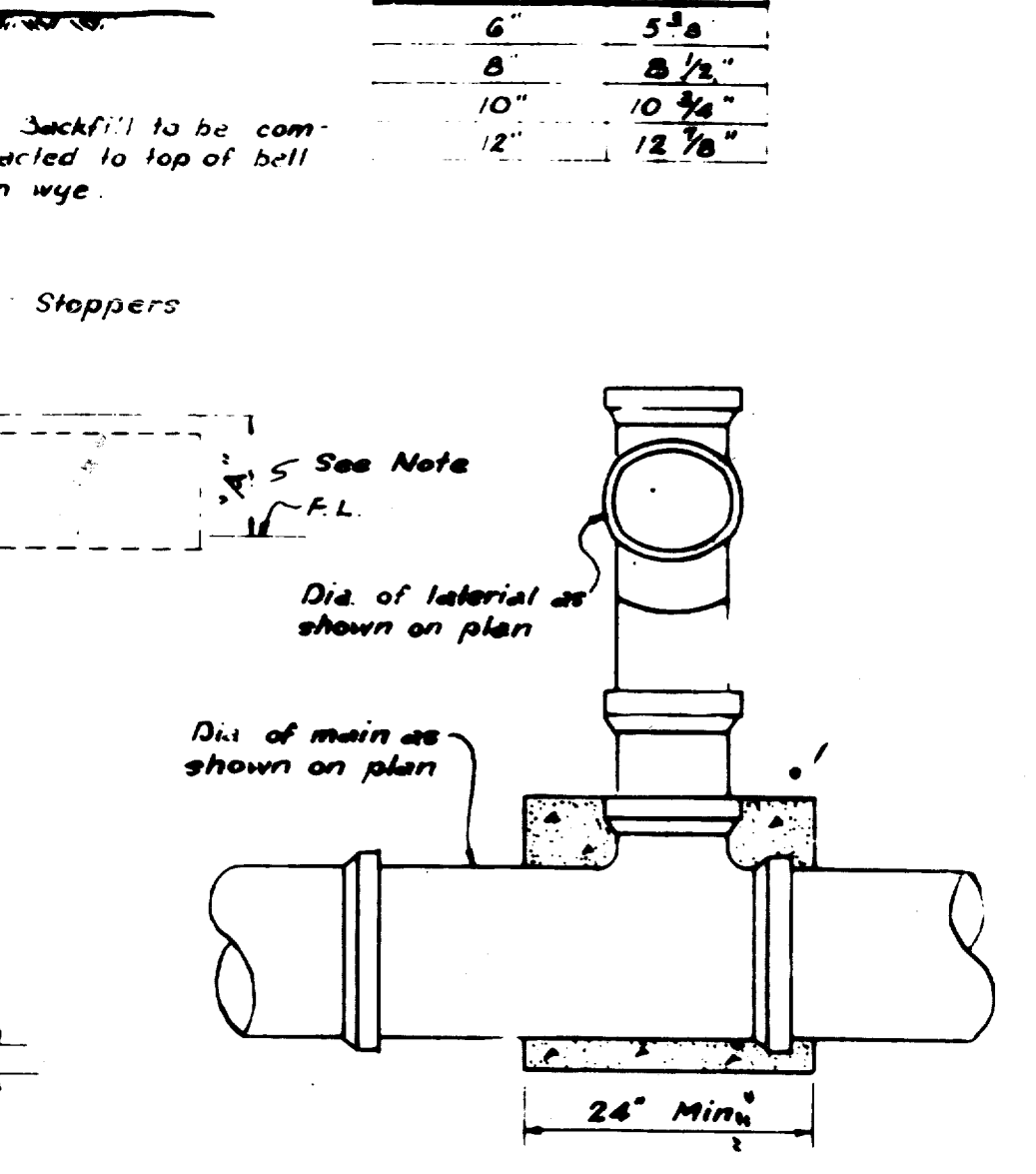
STANDARD DROP CONNECTION MANHOLE



STANDARD CLEANOUT



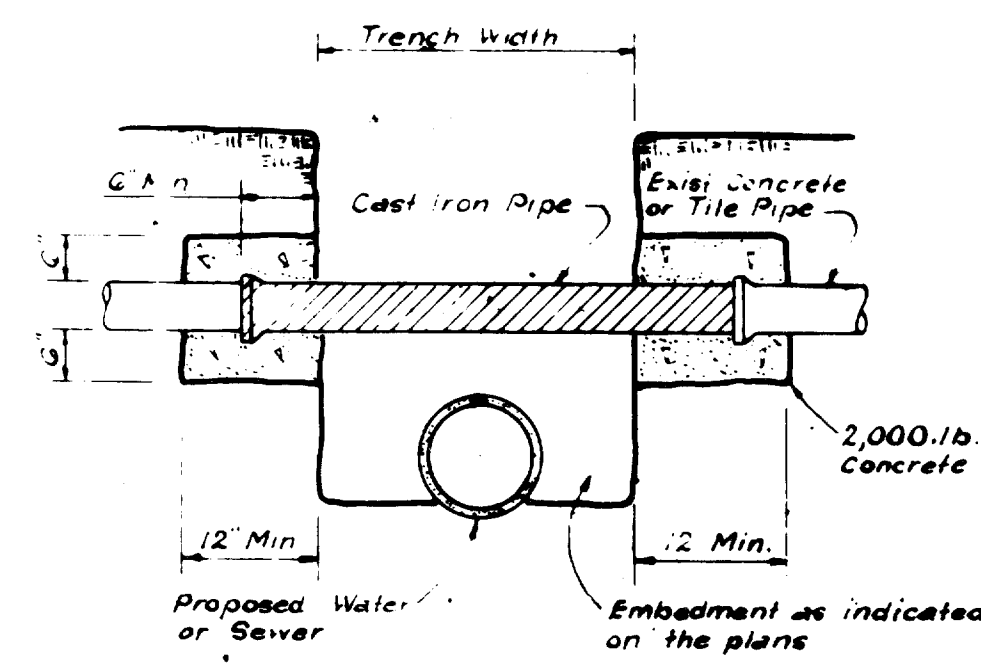
END ELEVATION



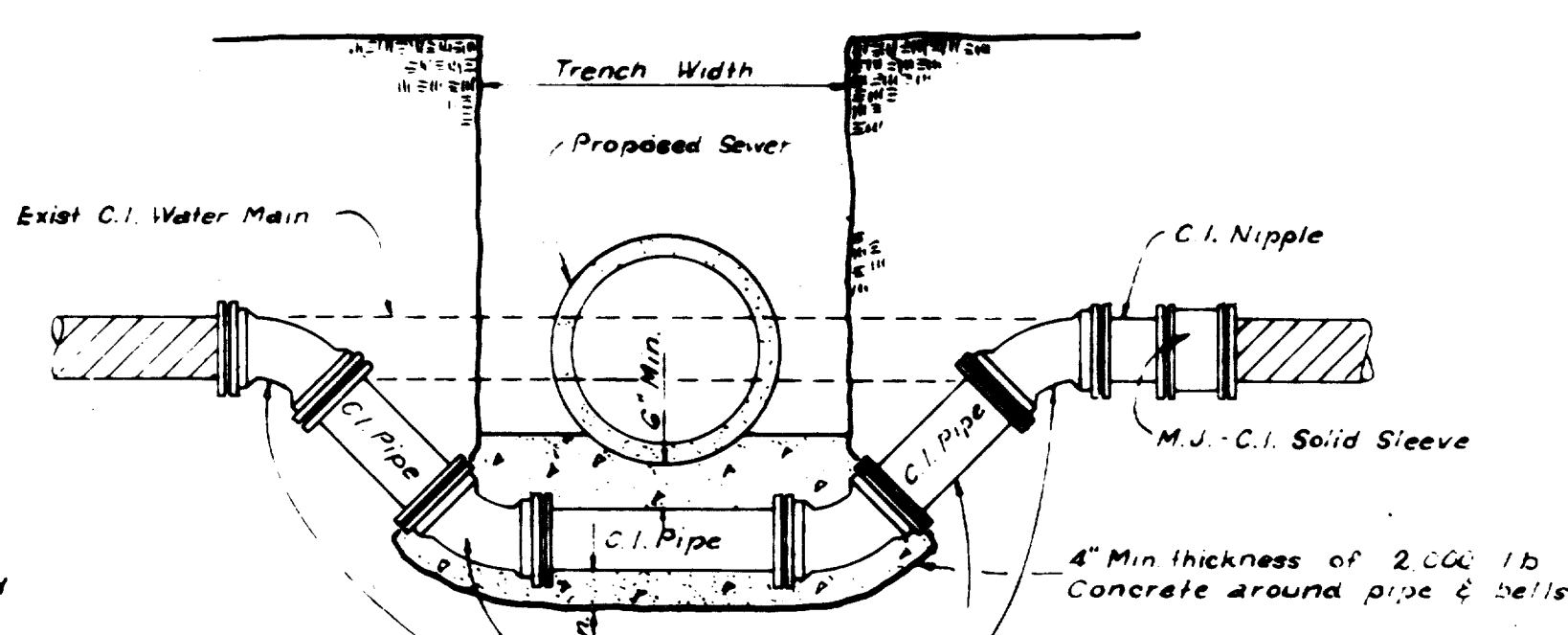
SIDE ELEVATION

NOTE

Pipe Size	W
6"	5 3/8"
8"	8 1/2"
10"	10 3/4"
12"	12 3/8"



DETAIL OF UTILITY SUPPORT



DETAIL FOR WATER MAIN LOWERING

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

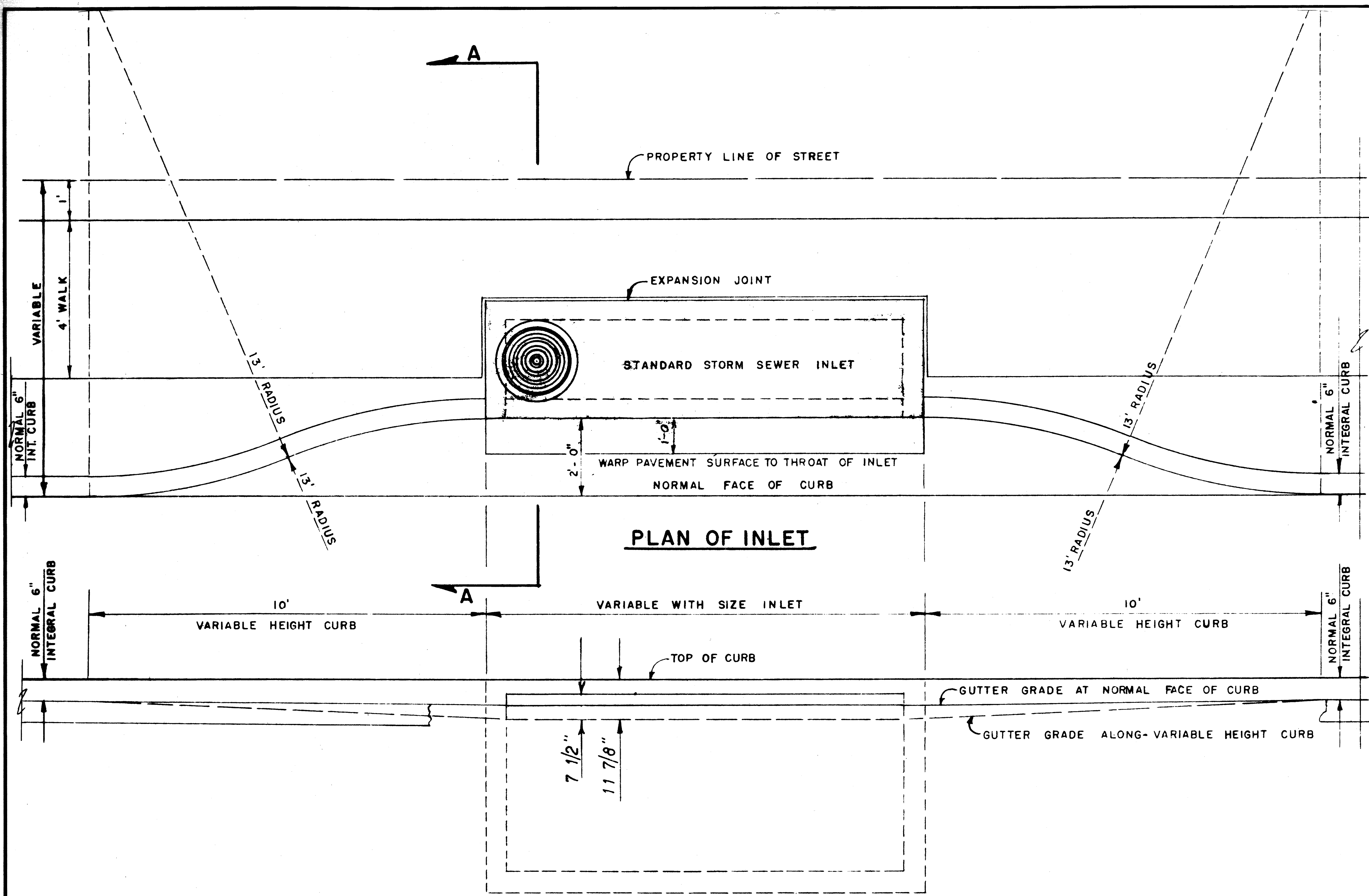
QUORUM

SANITARY SEWER DETAILS

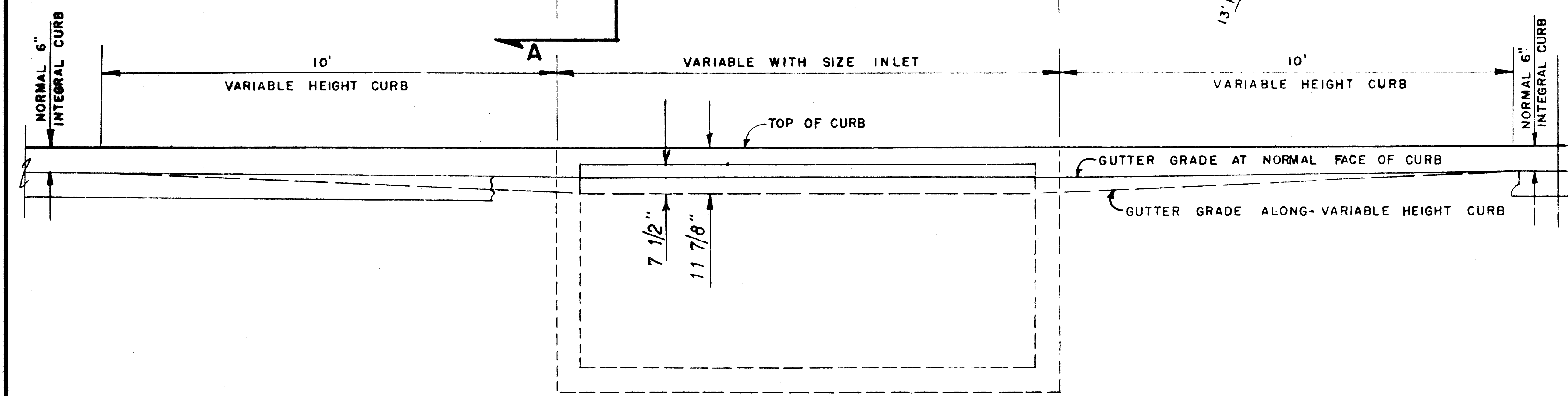
Graham Associates, Inc.
 CONSULTING ENGINEERS & PLANNERS

DESIGN	DRAWN	CHECKED	DATE	SCALE	SHEET NO.
R.E.V.	R.L.D.	D.P.	3-1-79	NONE	8 OF 22

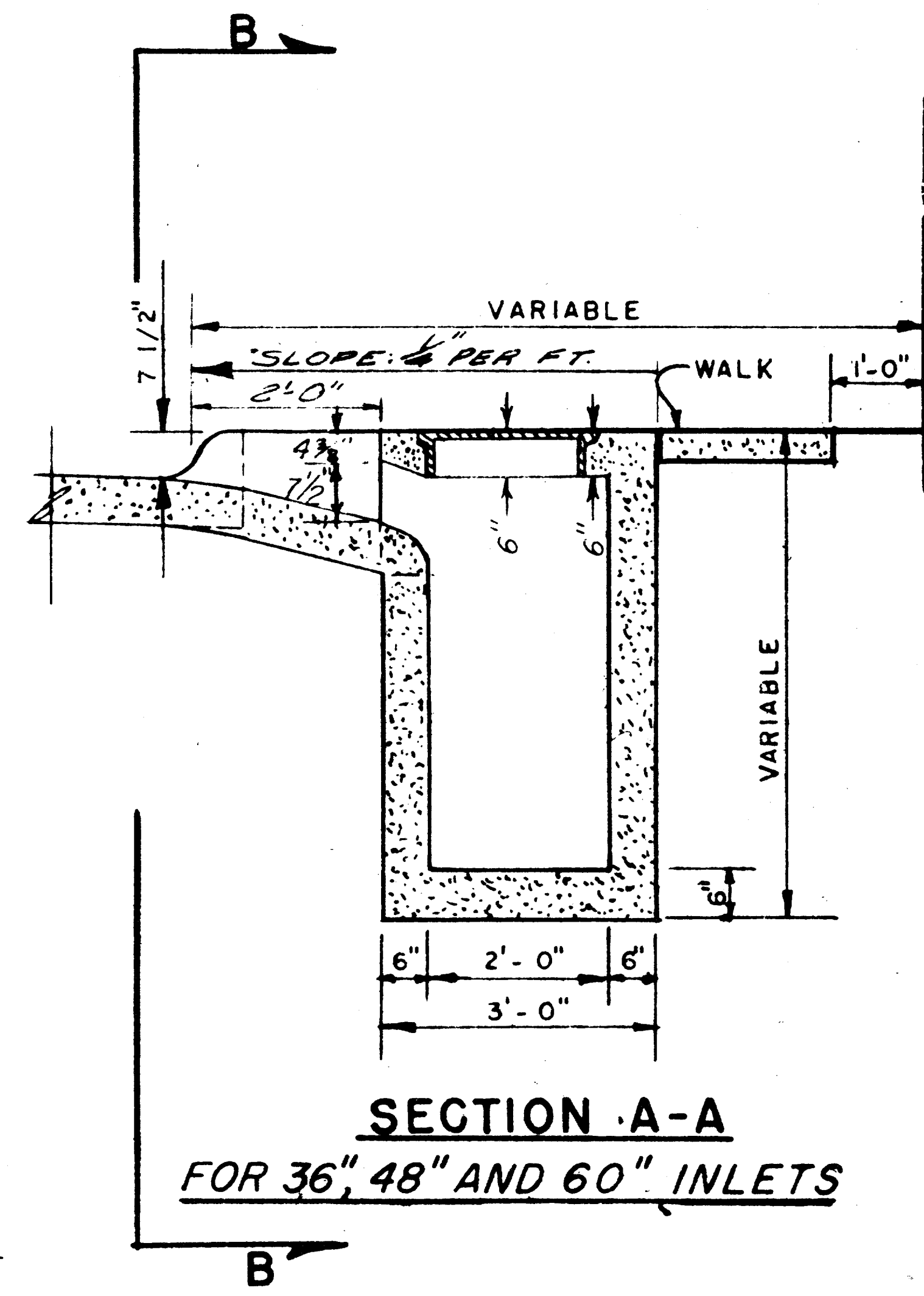
RH
 8/6/80



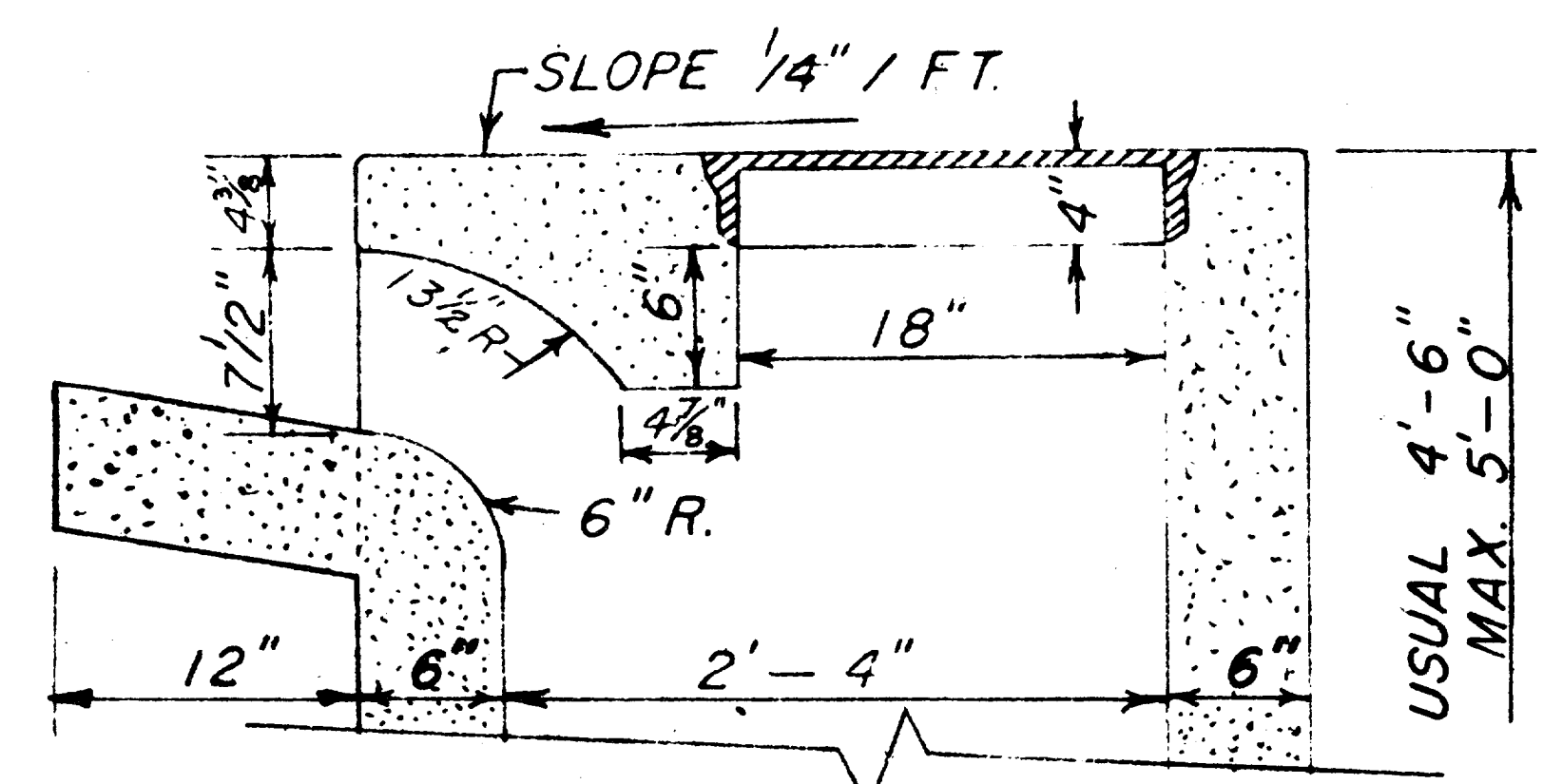
PLAN OF INLET



SECTION B-B



**SECTION A-A
FOR 36", 48" AND 60" INLETS**



**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 DALLAS, TEXAS**

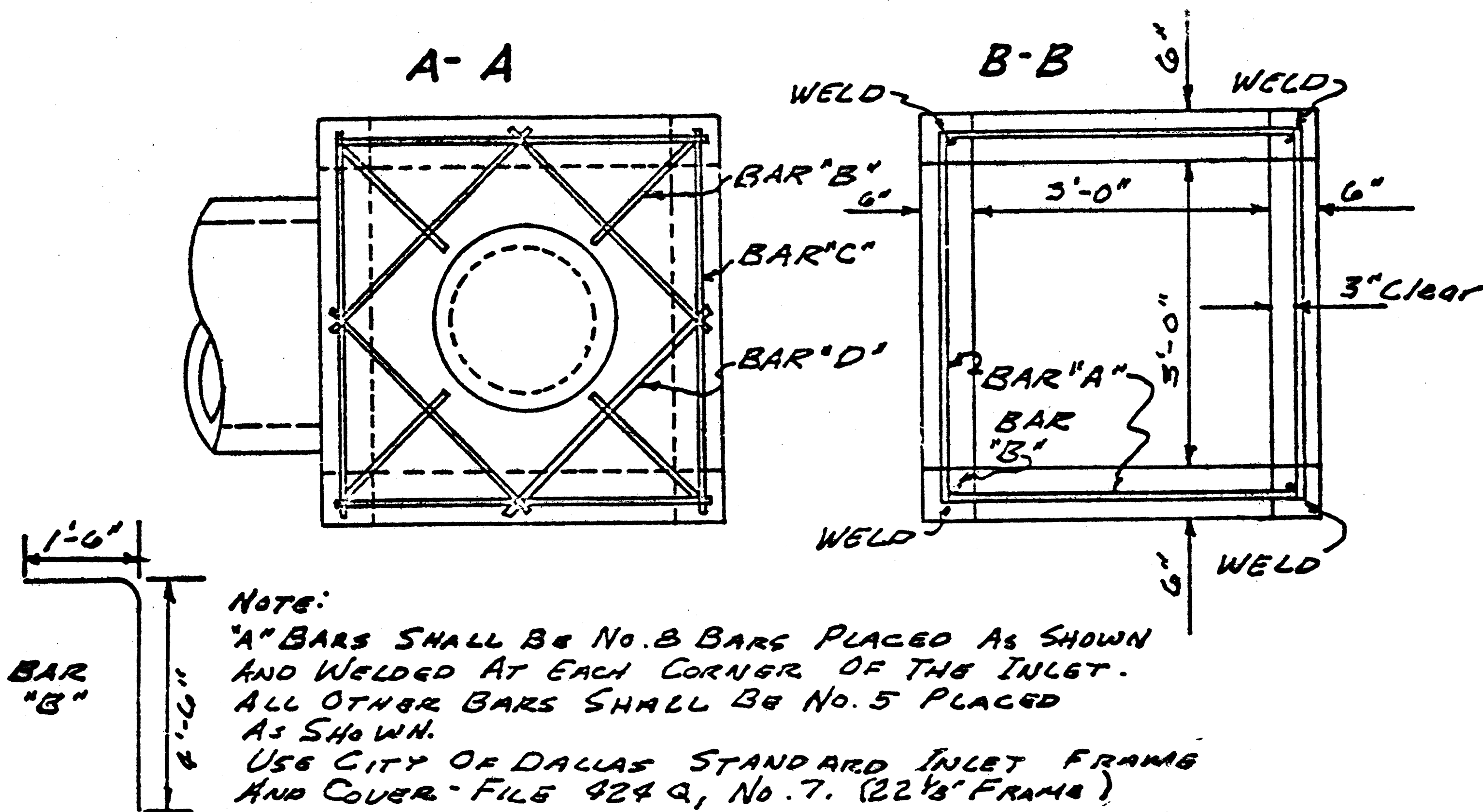
SCALE	FILE	SHEET NO.
3/8" = 1'-0"	424	19 of 22

REV. 1-31-62

RA
8/2/80

SPECIAL "Y" INLET

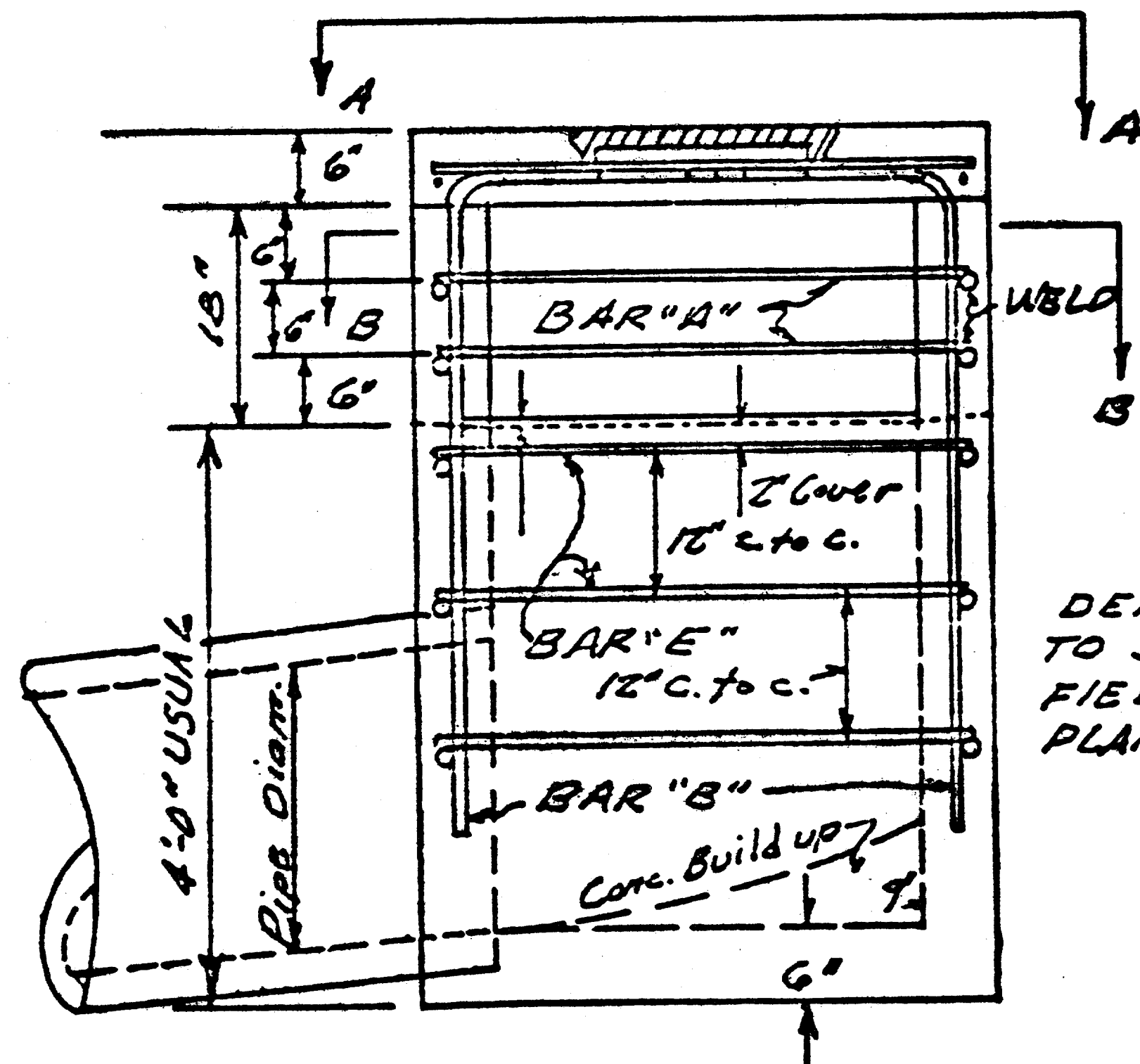
Scale: 1/2" = 1'



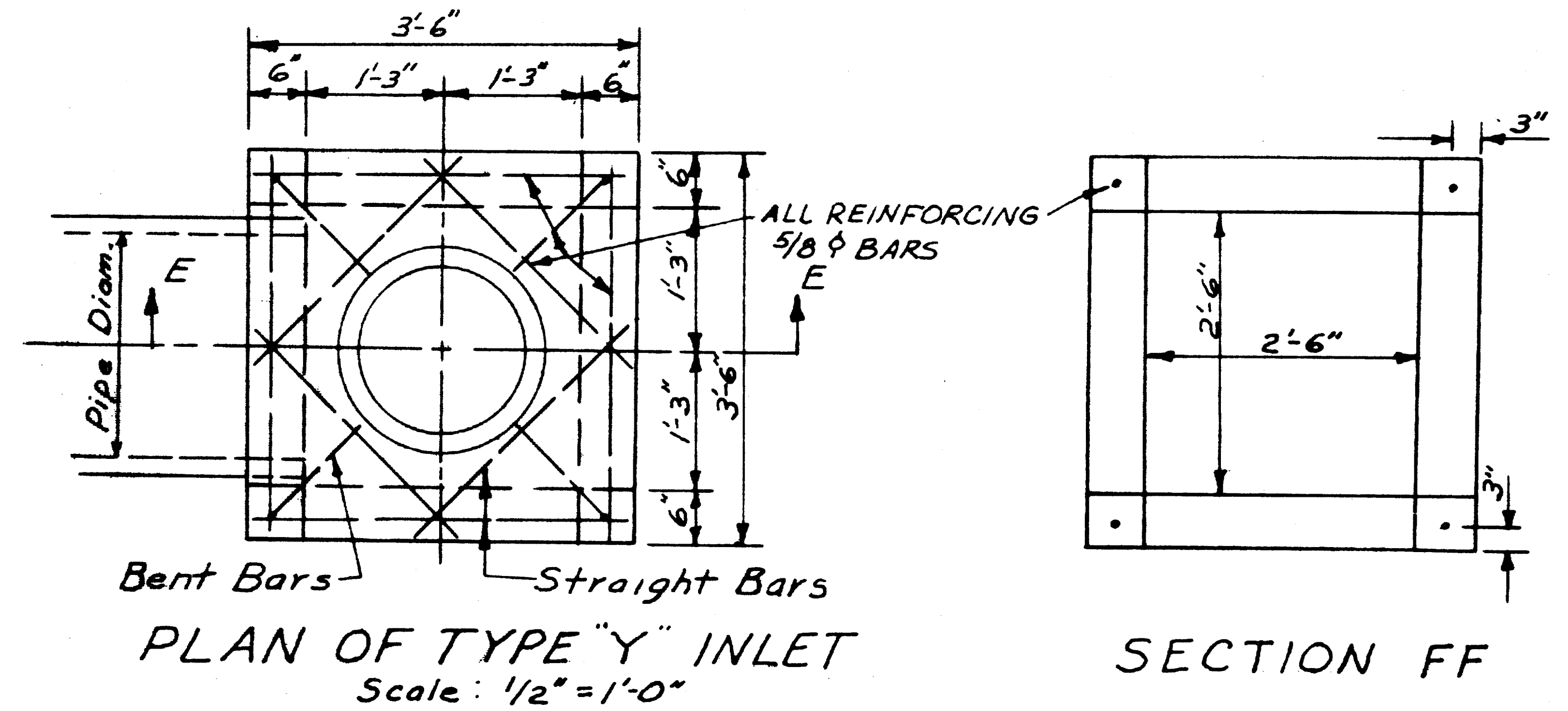
NOTE:

"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)



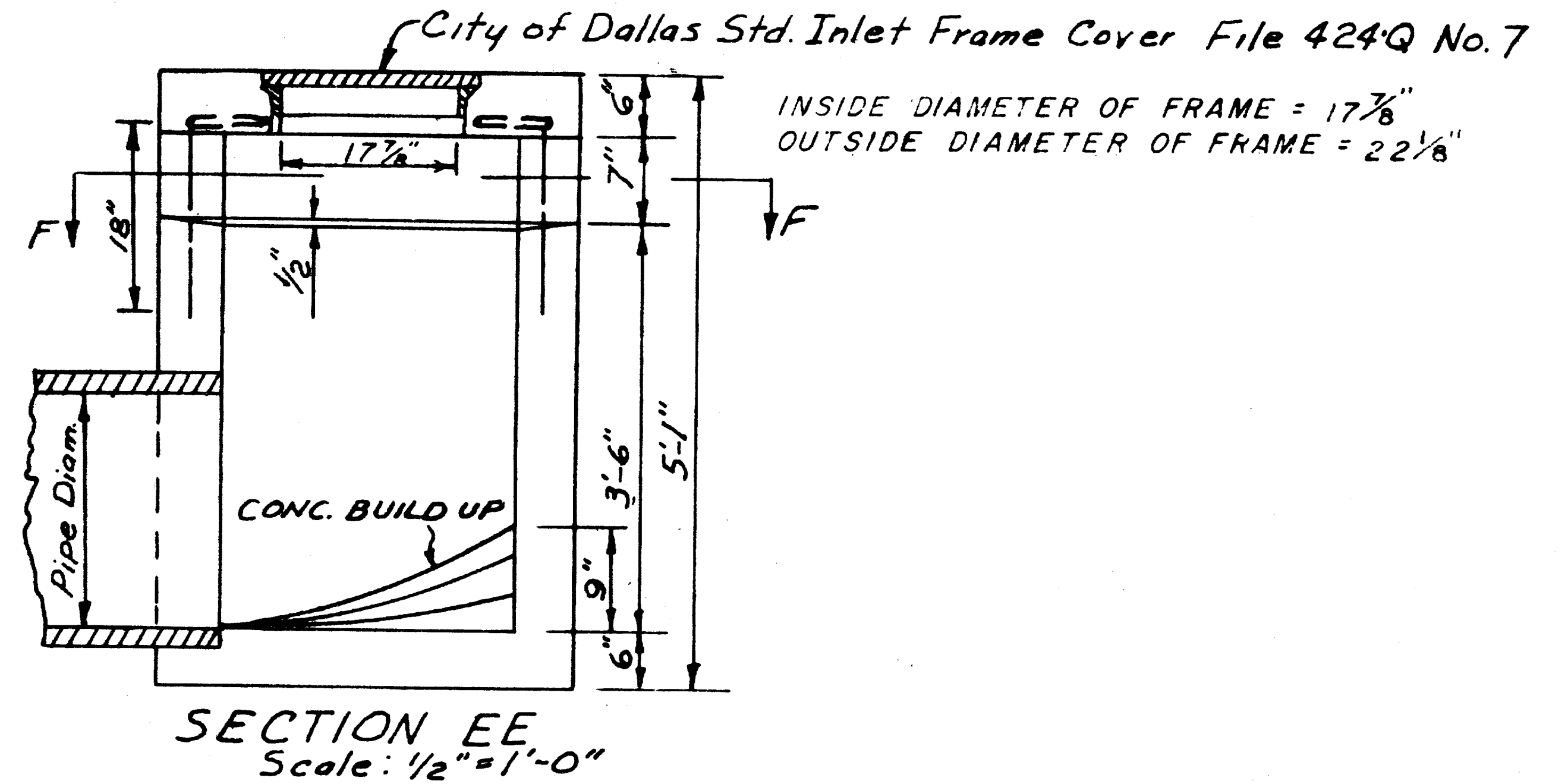
DEPTH OF INLET MAY VARY TO SUIT CONDITION IN THE FIELD OR AS SPECIFIED ON PLANS.



PLAN OF TYPE "Y" INLET

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

SECTION FF



SECTION EE

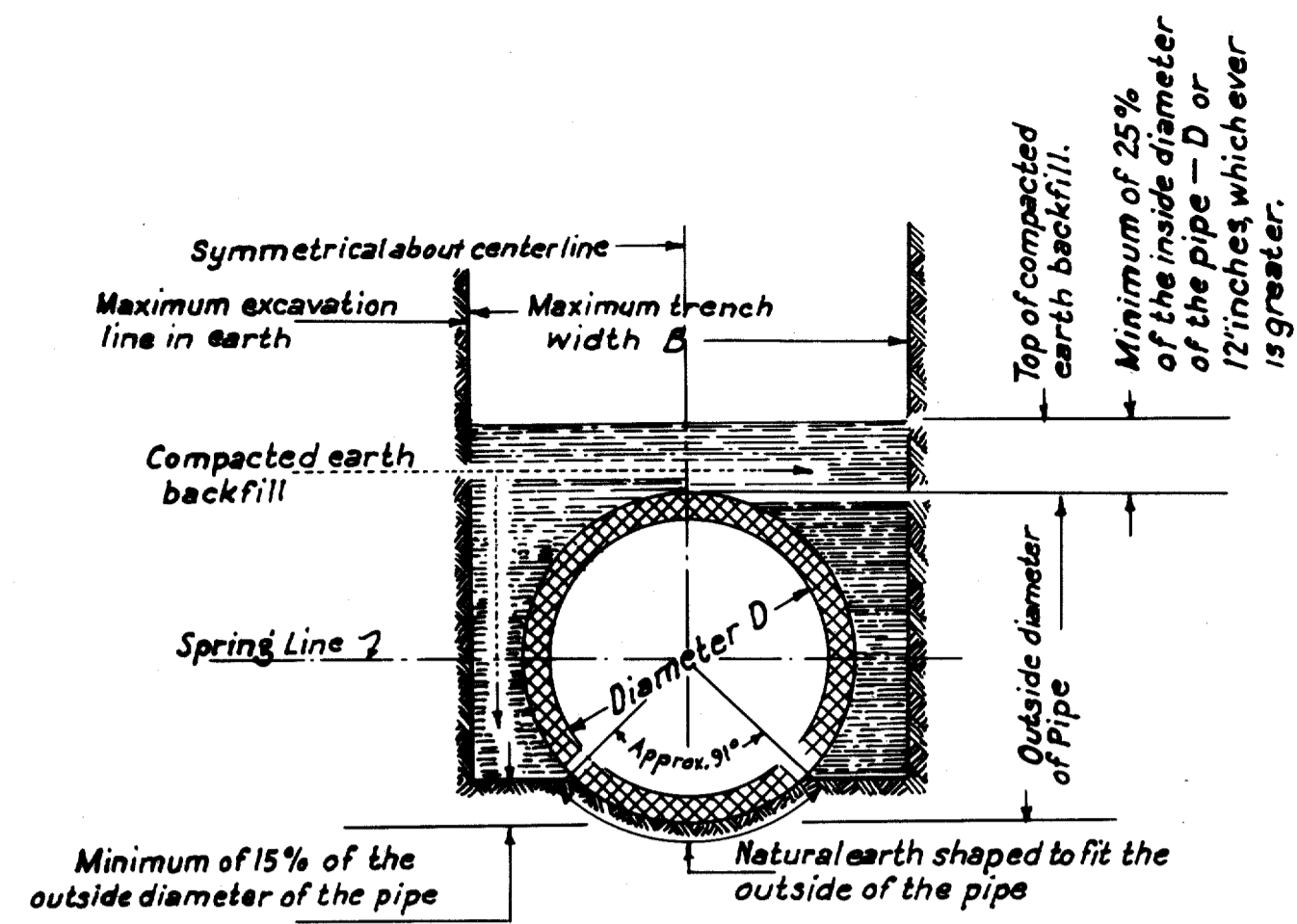
Scale: 1/2" = 1'-0"

QUORUM

RA
8/6/80

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

STANDARD CITY OF DALLAS					
TYPE "Y" INLET					
DEPARTMENT OF PUBLIC WORKS					
DRAWN	TRACED	DATE	SCALE	FILE	SHEET
H.C.	R.E.H.	JUNE 30	NO. ED	424	20 of 22

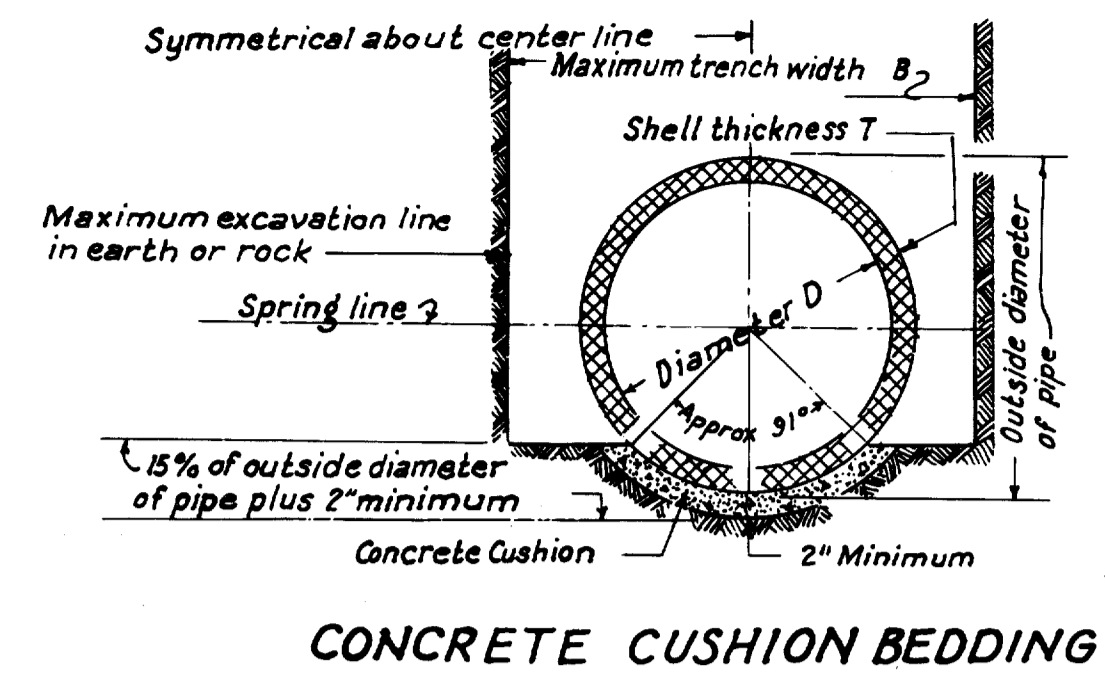


TRENCH BEDDING IN EARTH FOR PRECAST PIPE WITHOUT CONCRETE CRADLE OR CUSHION

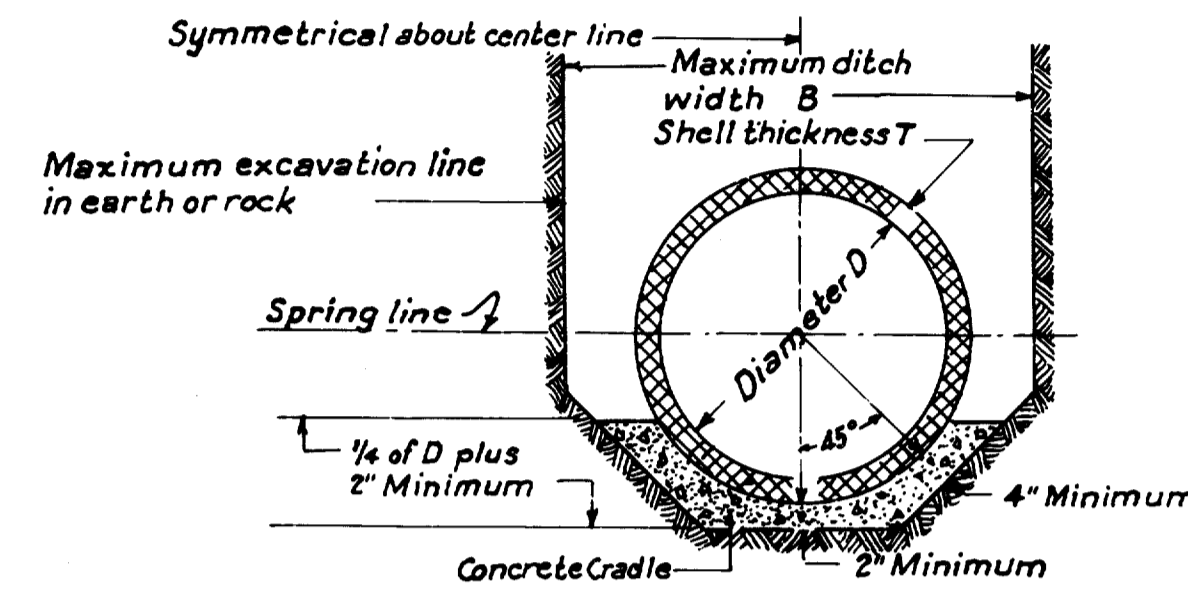
This method of trench bedding and backfill will be required in the construction of all precast pipe sewers where concrete cradle and cushion is not used.

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

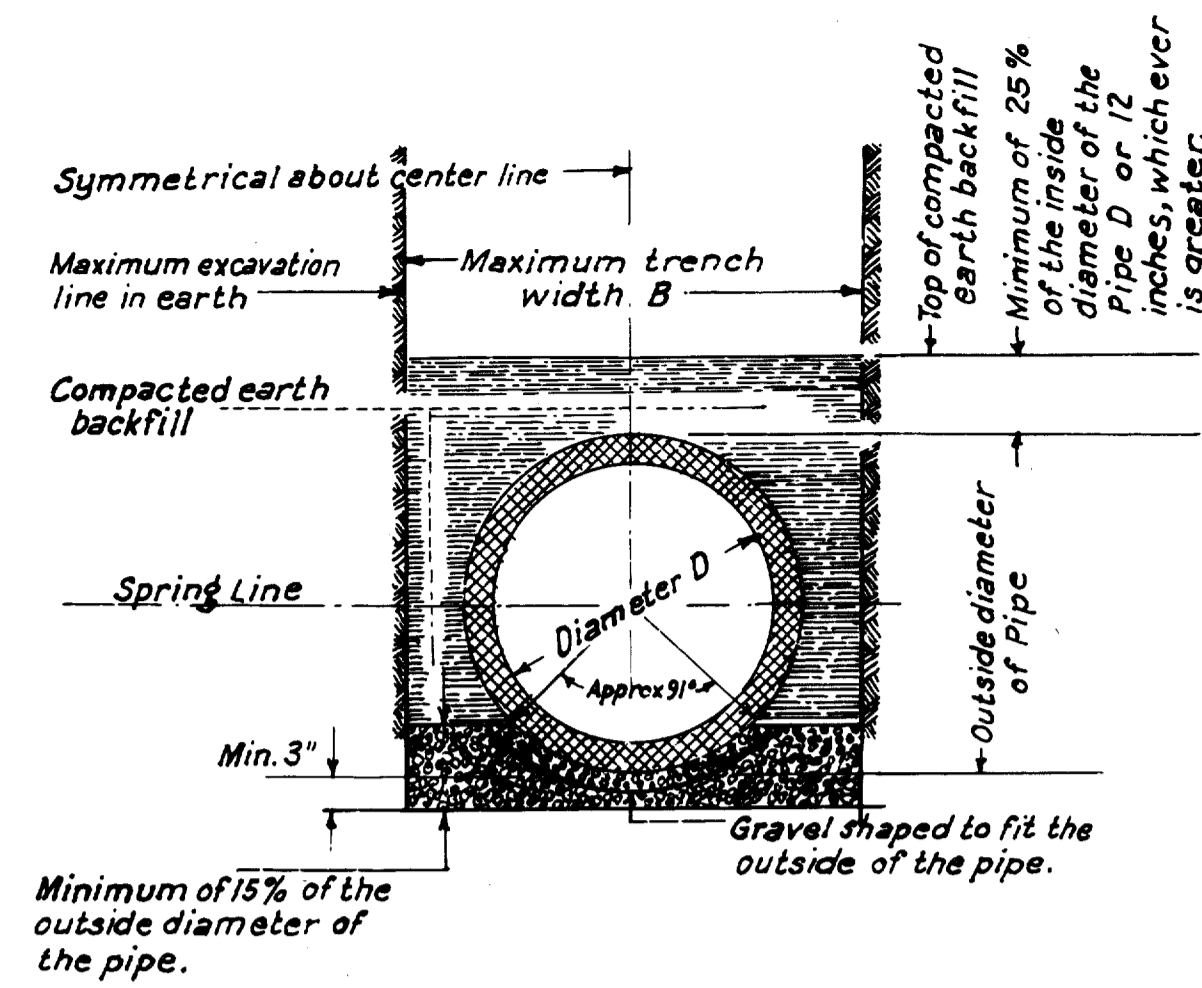
This method of backfill will be required in the construction of all precast pipe sewers with concrete cradle and concrete cushion.



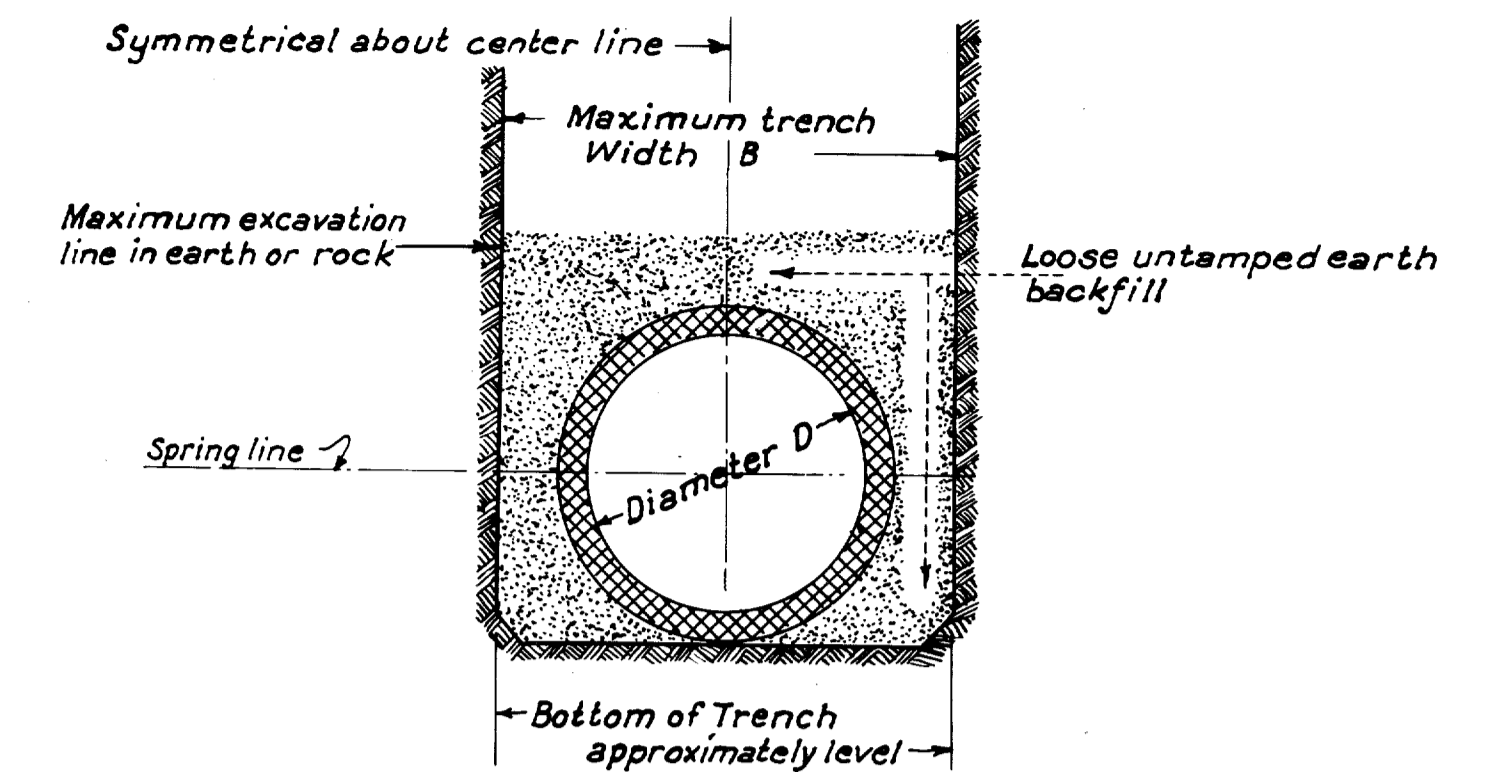
CONCRETE CUSHION BEDDING



CONCRETE CRADLE BEDDING



GRAVEL BEDDING

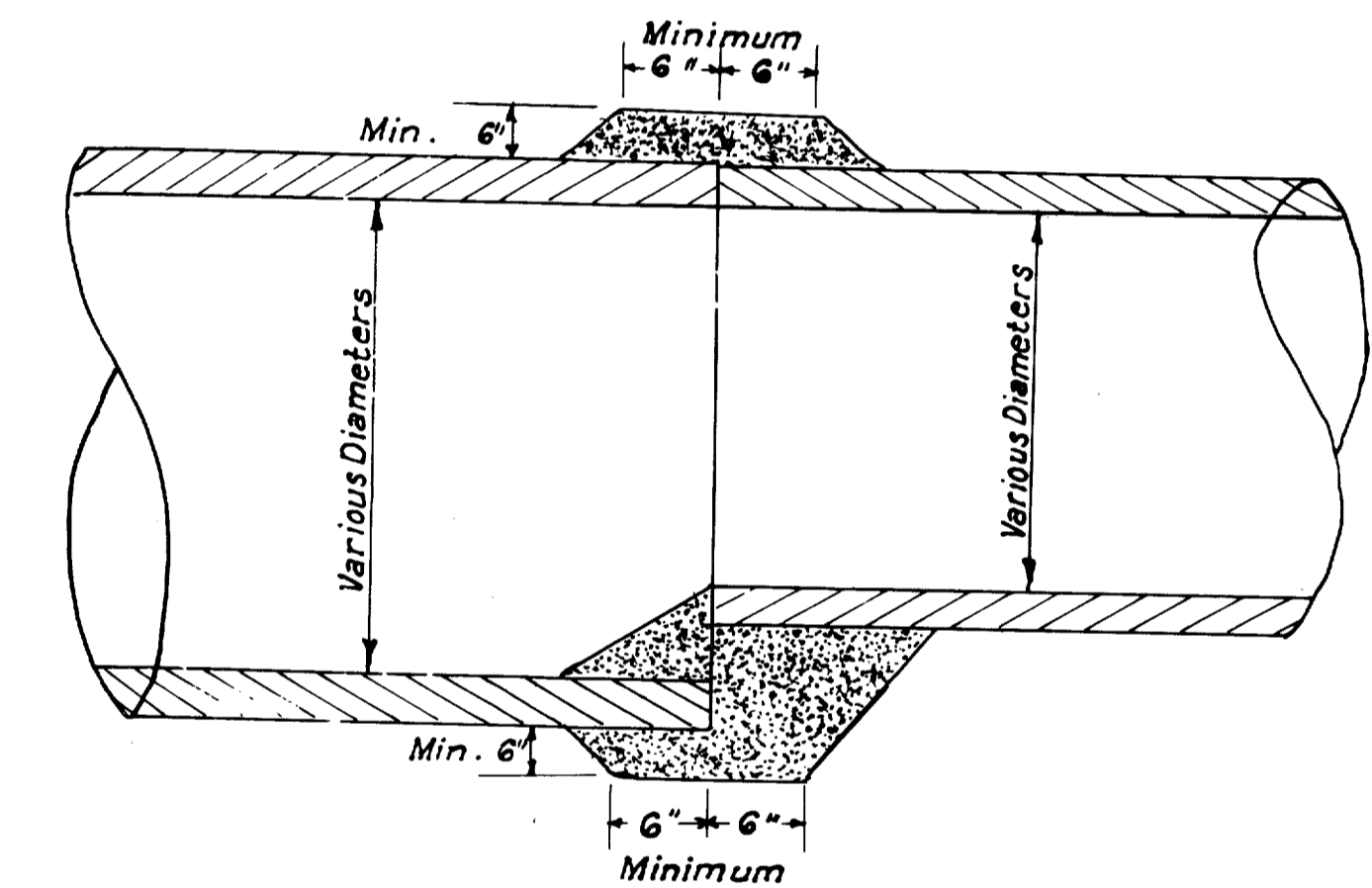


UNACCEPTABLE TRENCH BEDDING AND BACKFILL FOR ALL PRECAST PIPE SEWERS

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

NOTES

- 1- 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.
- 2 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.
- 3 The City of Dallas General Specifications shall govern the quality, placement, measurement and payment of reinforced concrete pipe conforming to designation C76 of the current A.S.T.M. Specifications.

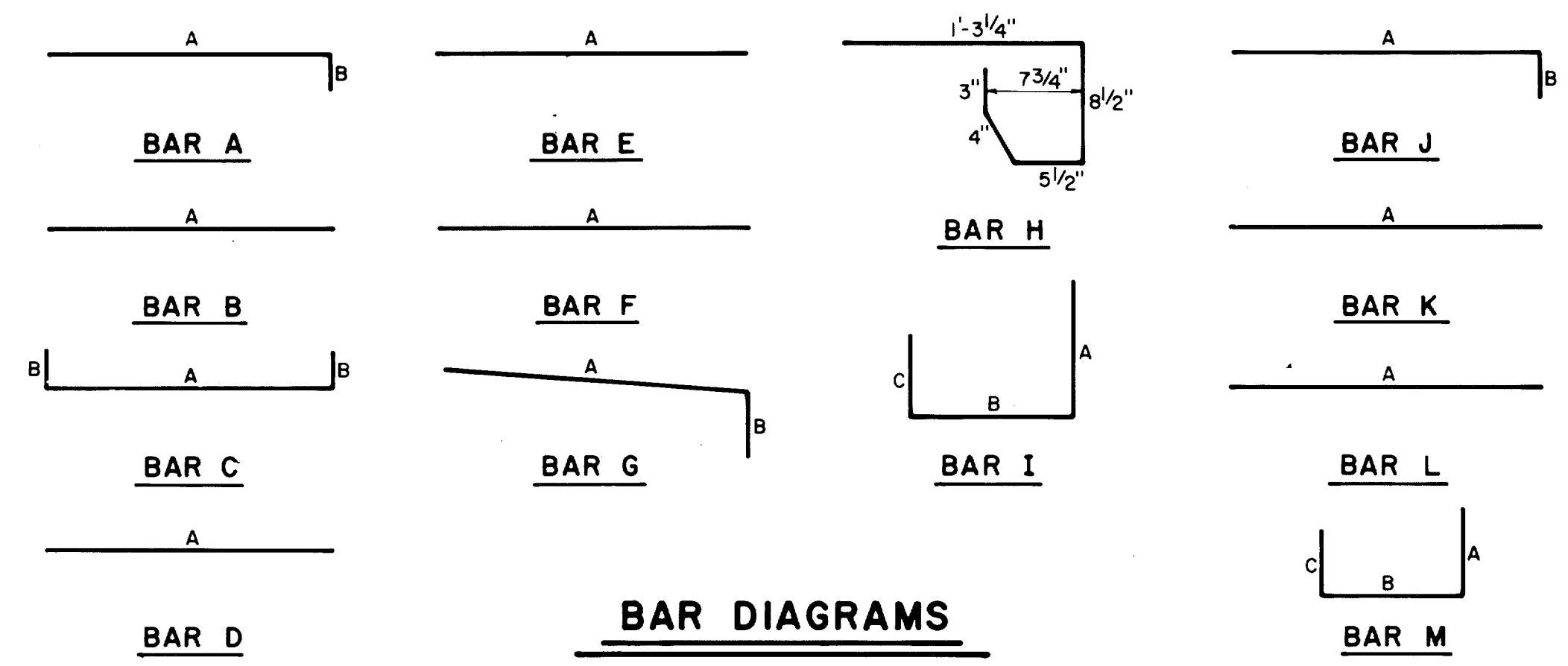
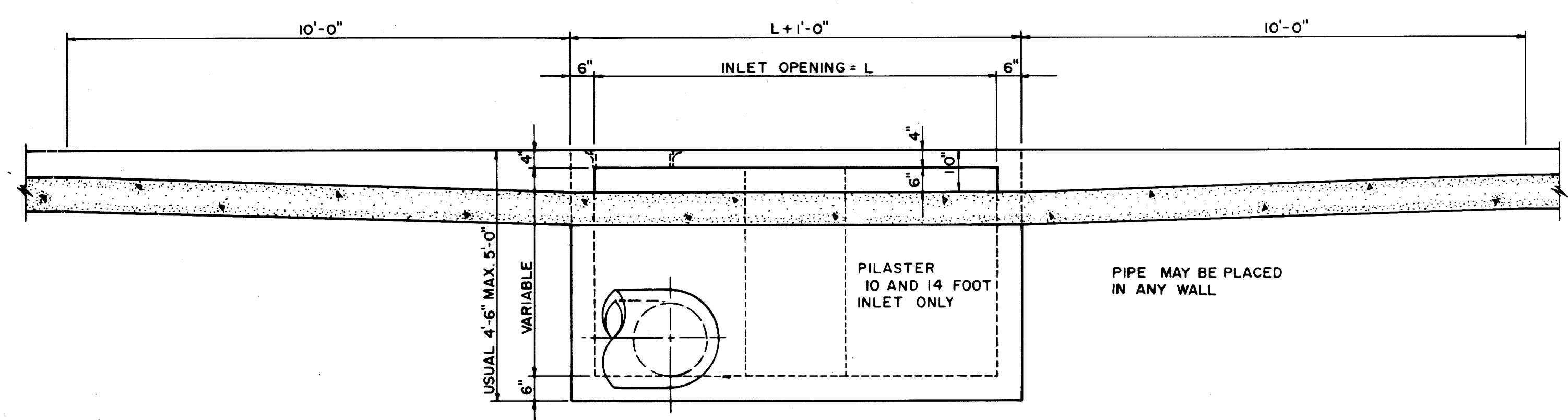
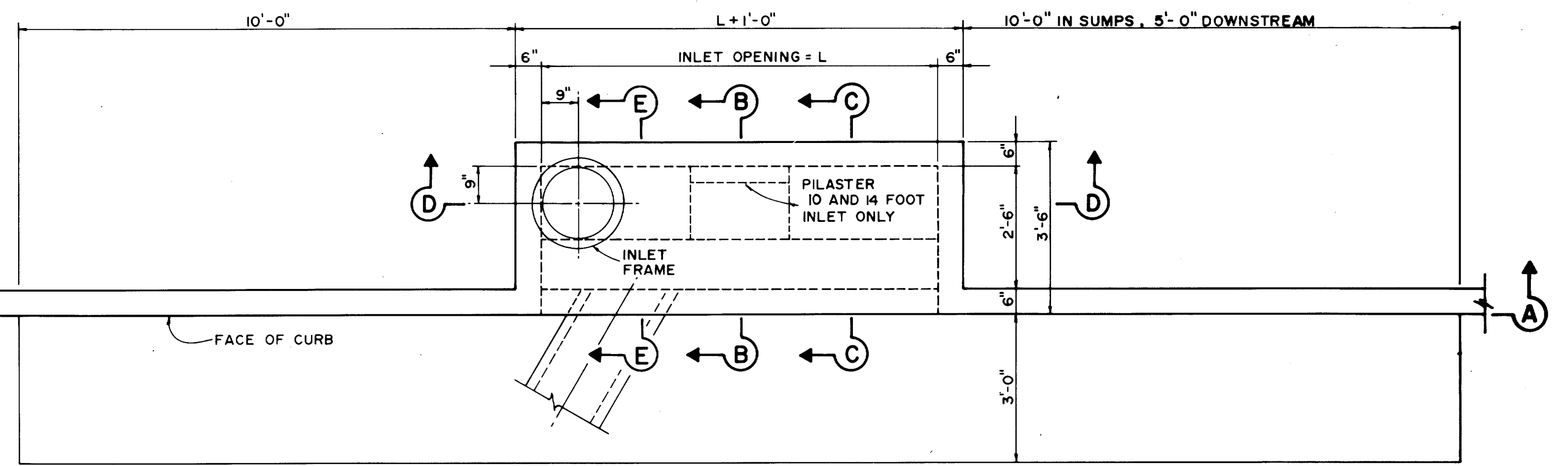
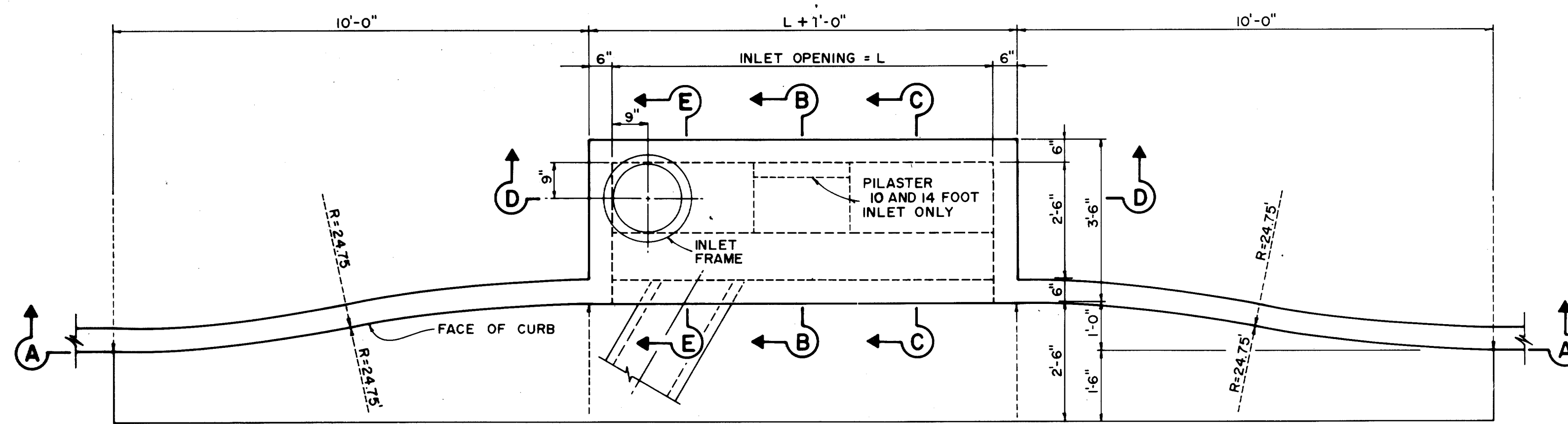


DETAIL OF CONCRETE COLLAR FOR END TO END PIPE EXTENSIONS

RA
8/6/80

QUOROM

STANDARD DETAILS						
CONCRETE CRADLE AND CUSHION AND TRENCH BEDDING						
DEPT. OF PUBLIC WORKS						
CITY OF DALLAS, TEXAS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	SHEET NO.
W.C.C.	D.T.C.	3/25/64	None	None	424Q	21 of 22

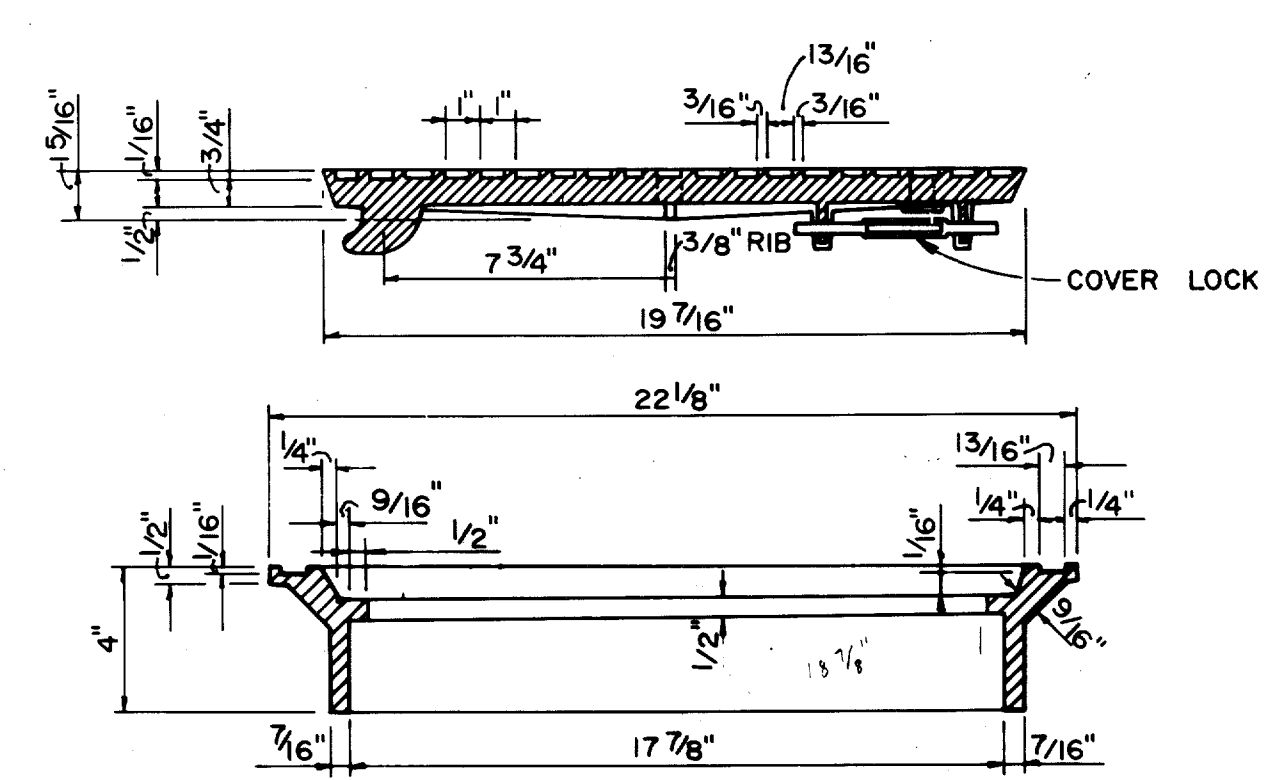
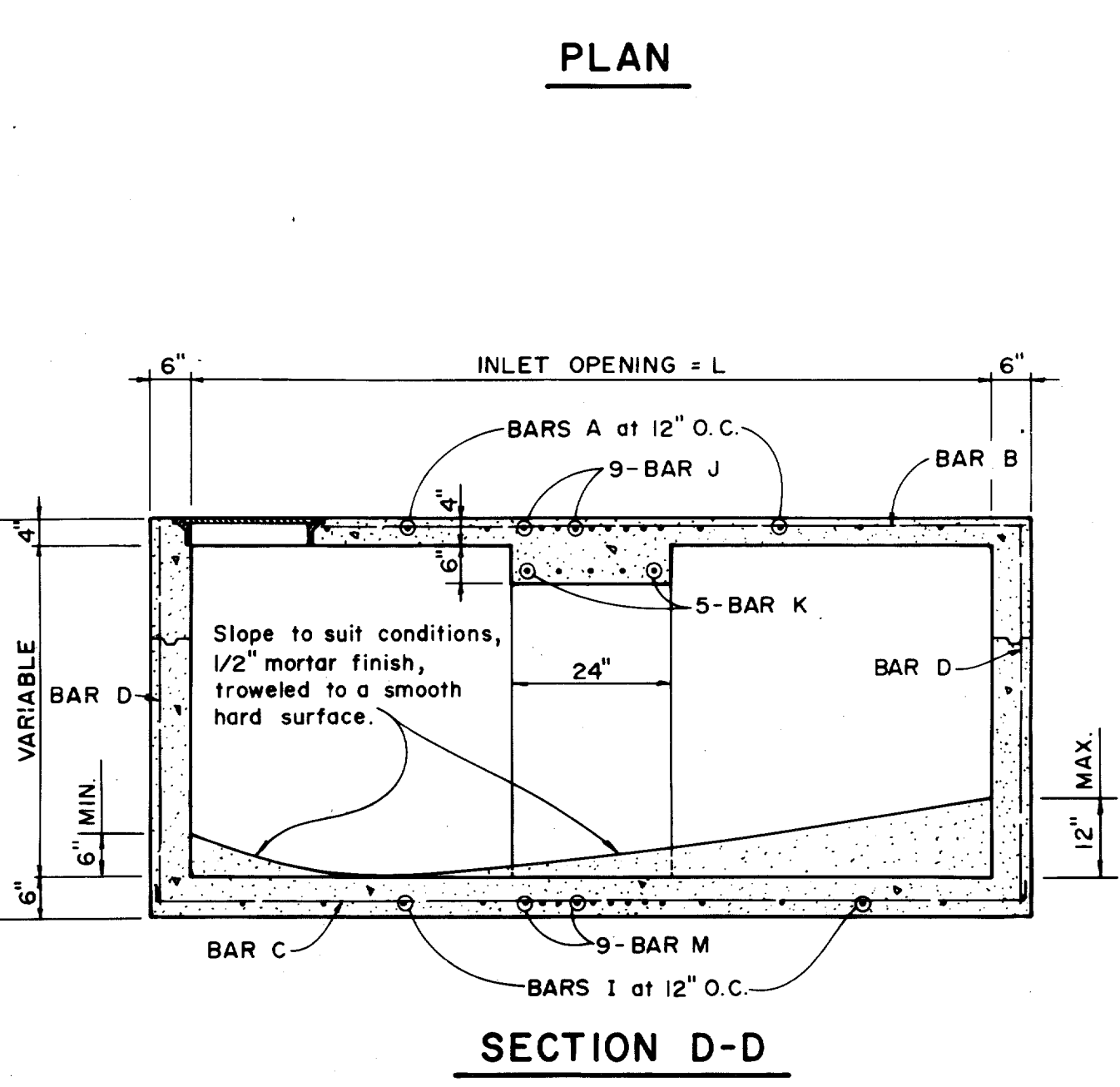
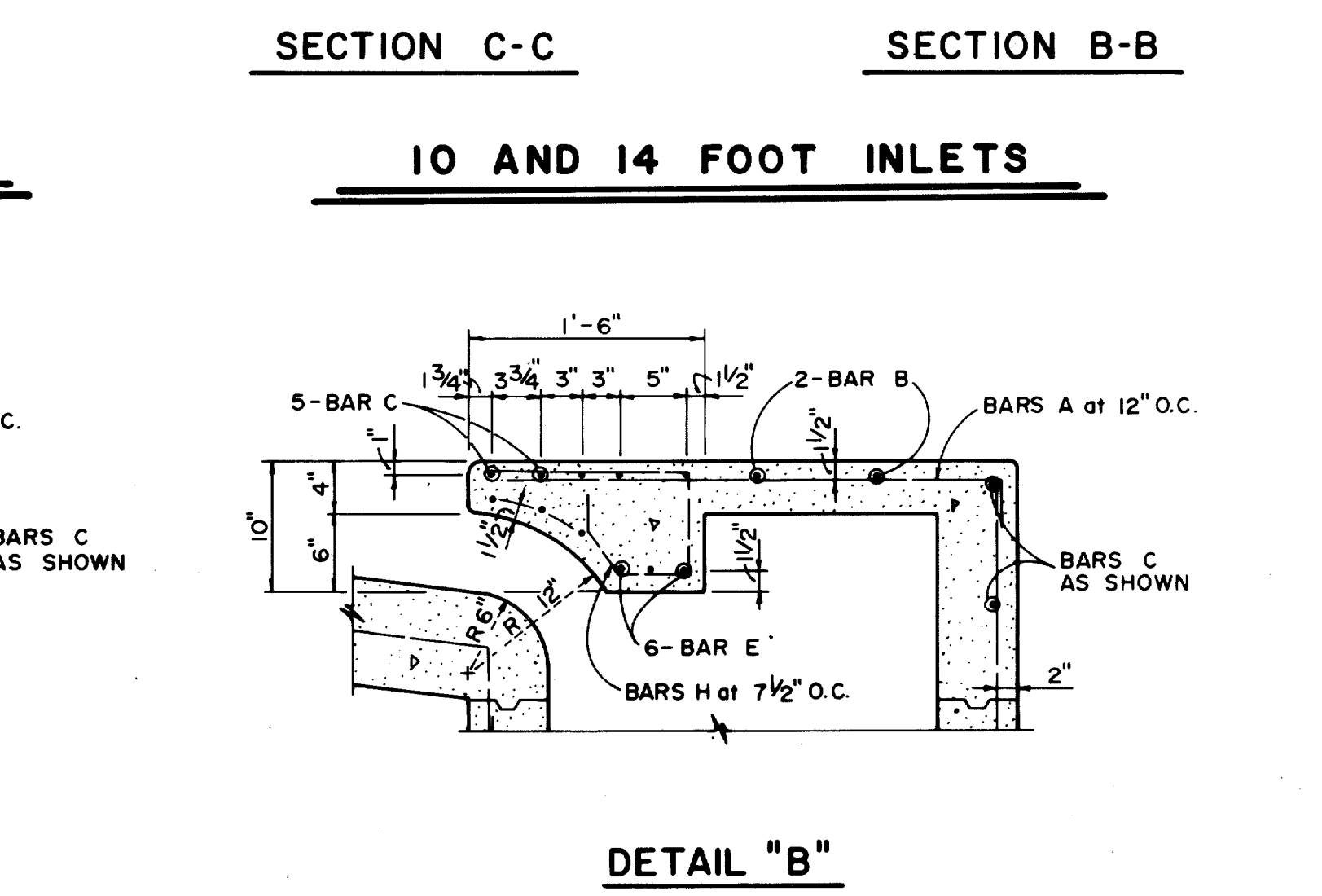
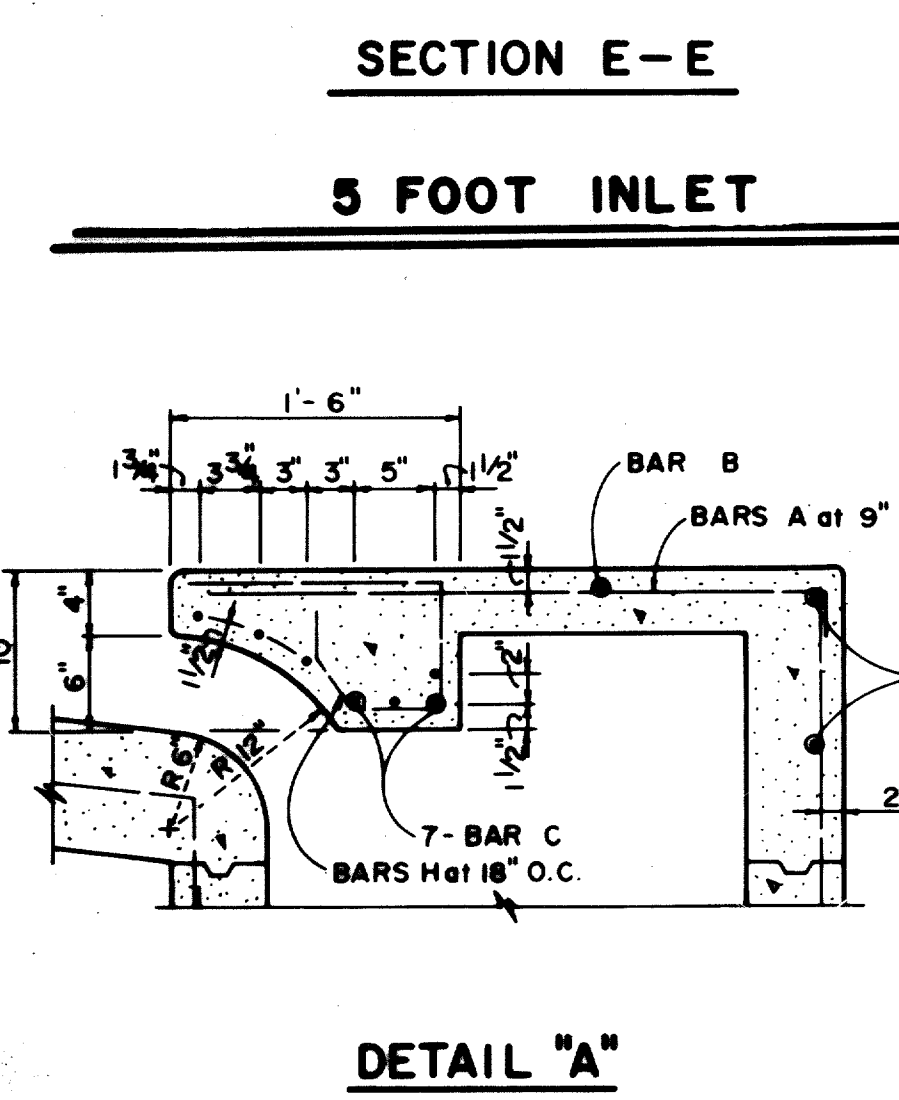
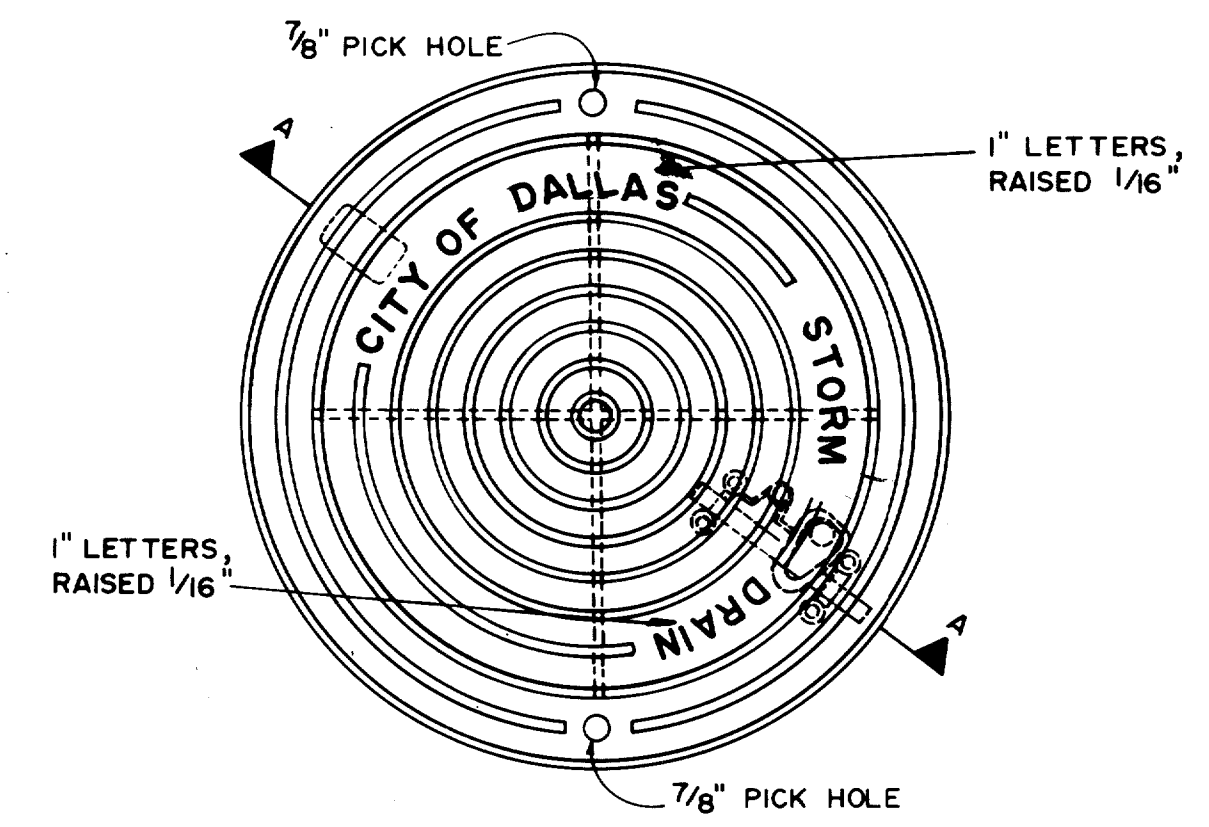
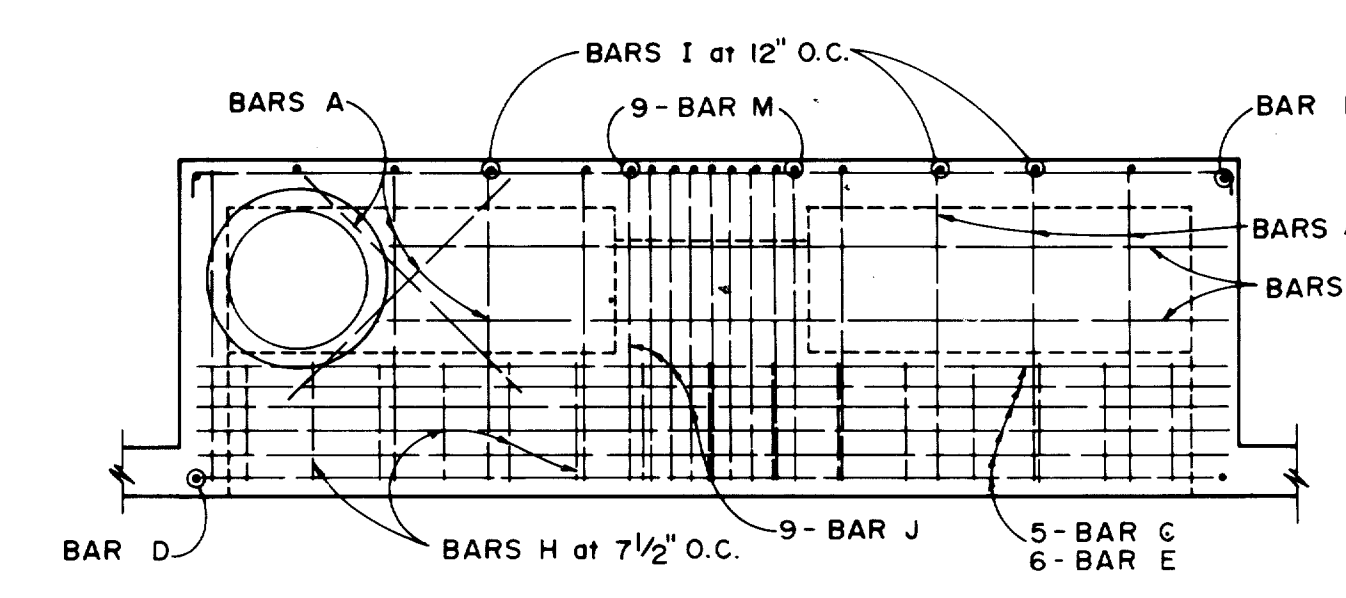
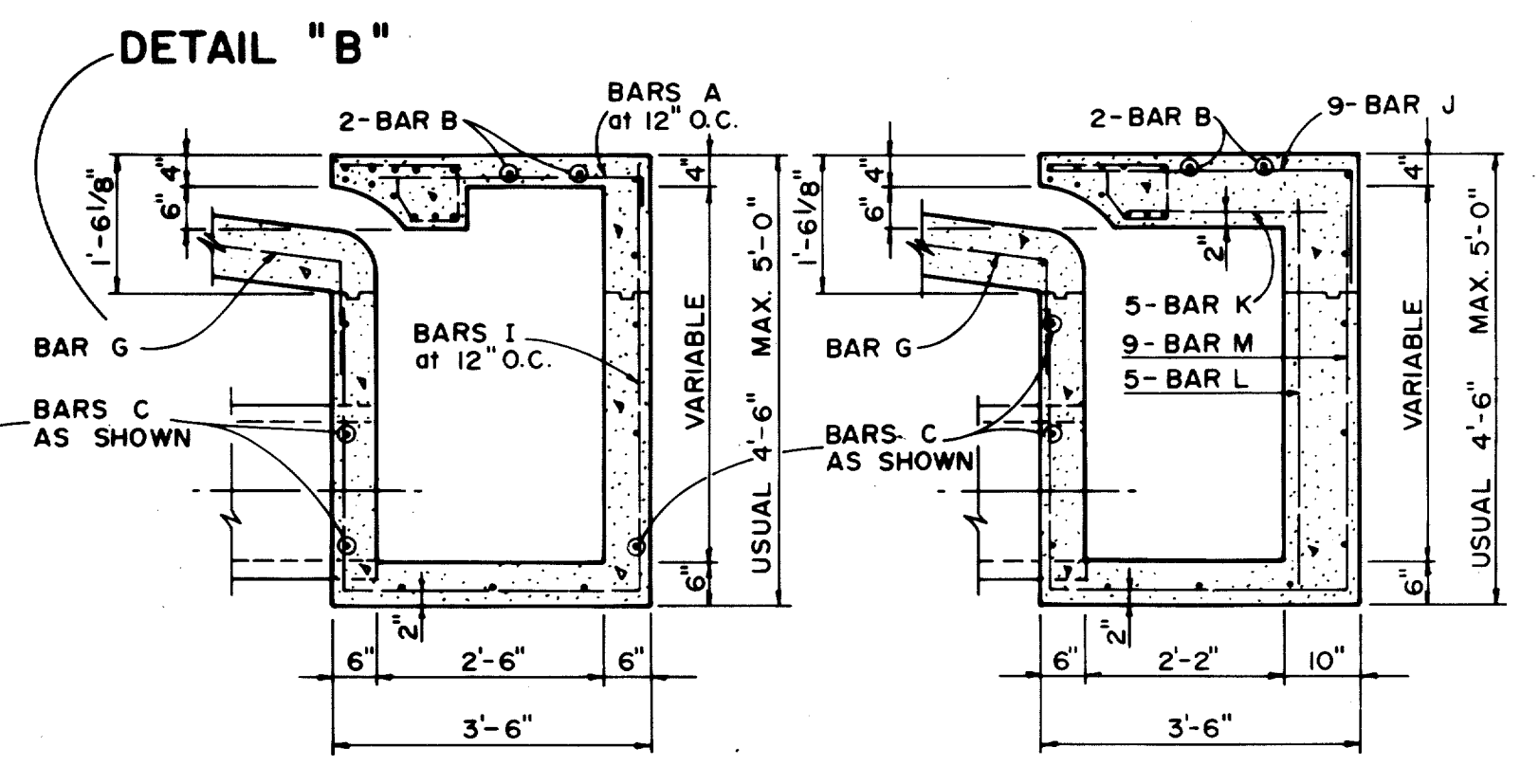
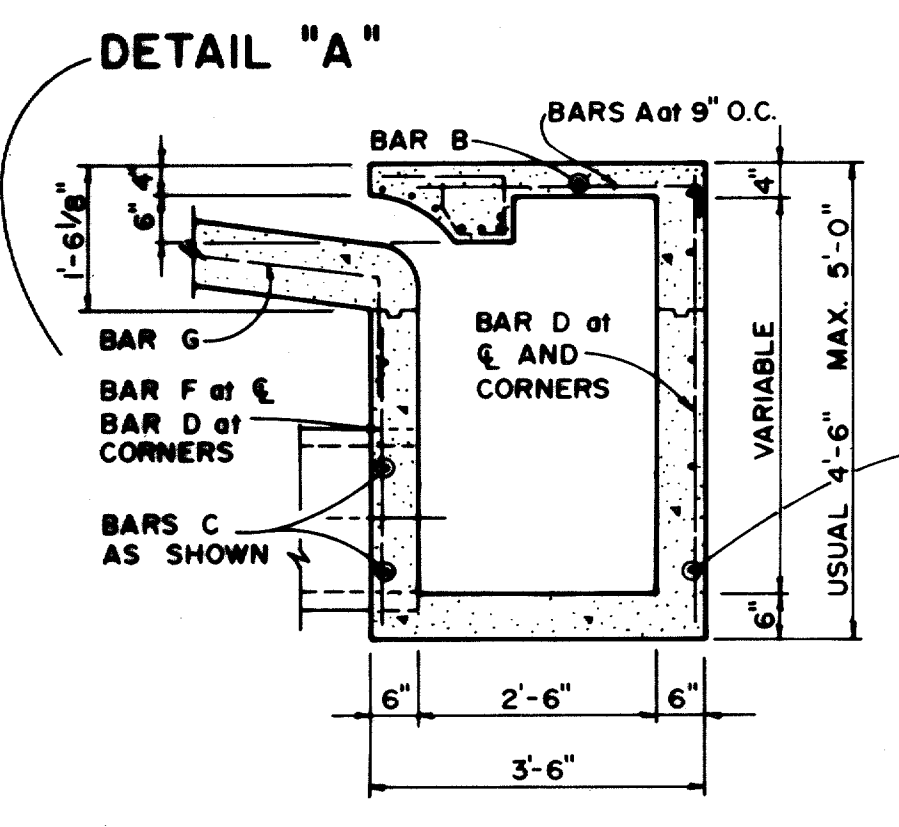


REINFORCING STEEL SCHEDULE

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	15	*	*	*
	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 DIAGRAM FOR DIMENSIONS



KH
3/6/80

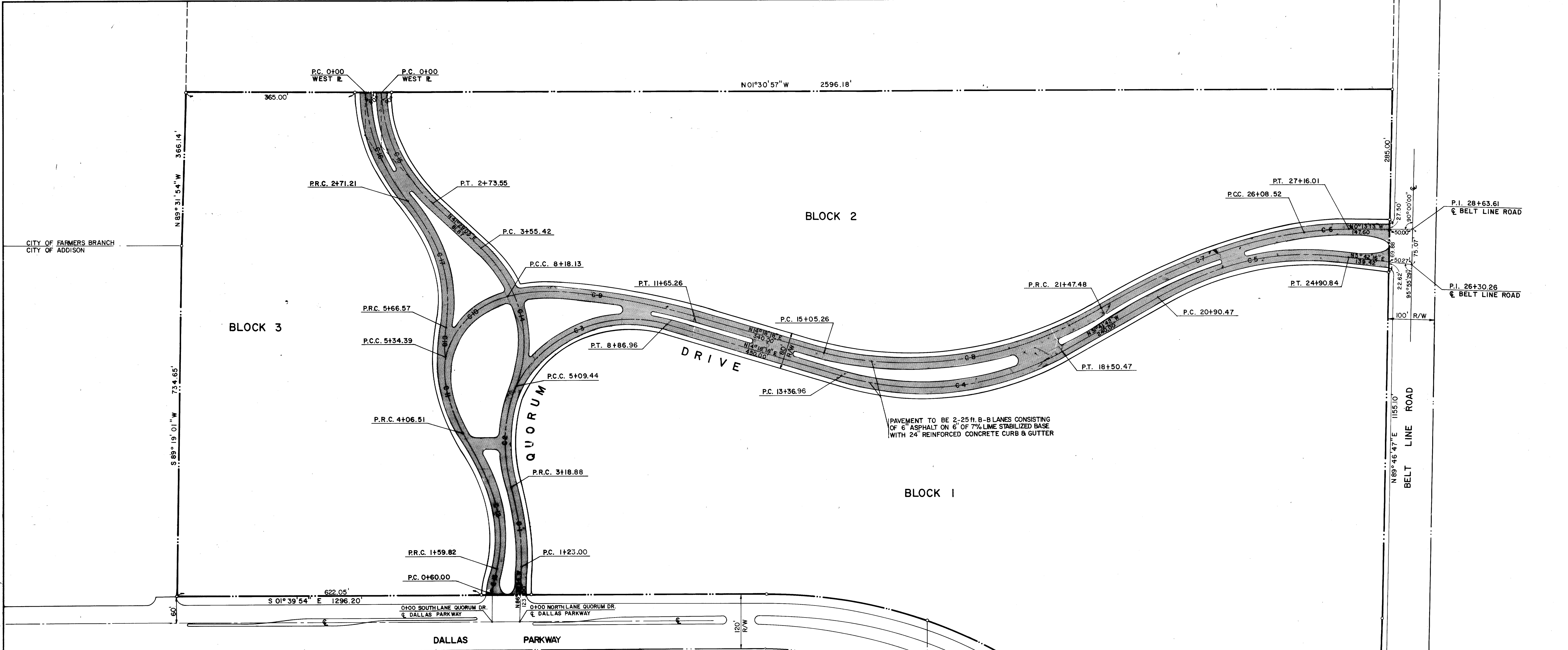
QUORUM

STANDARD CONSTRUCTION DETAILS

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

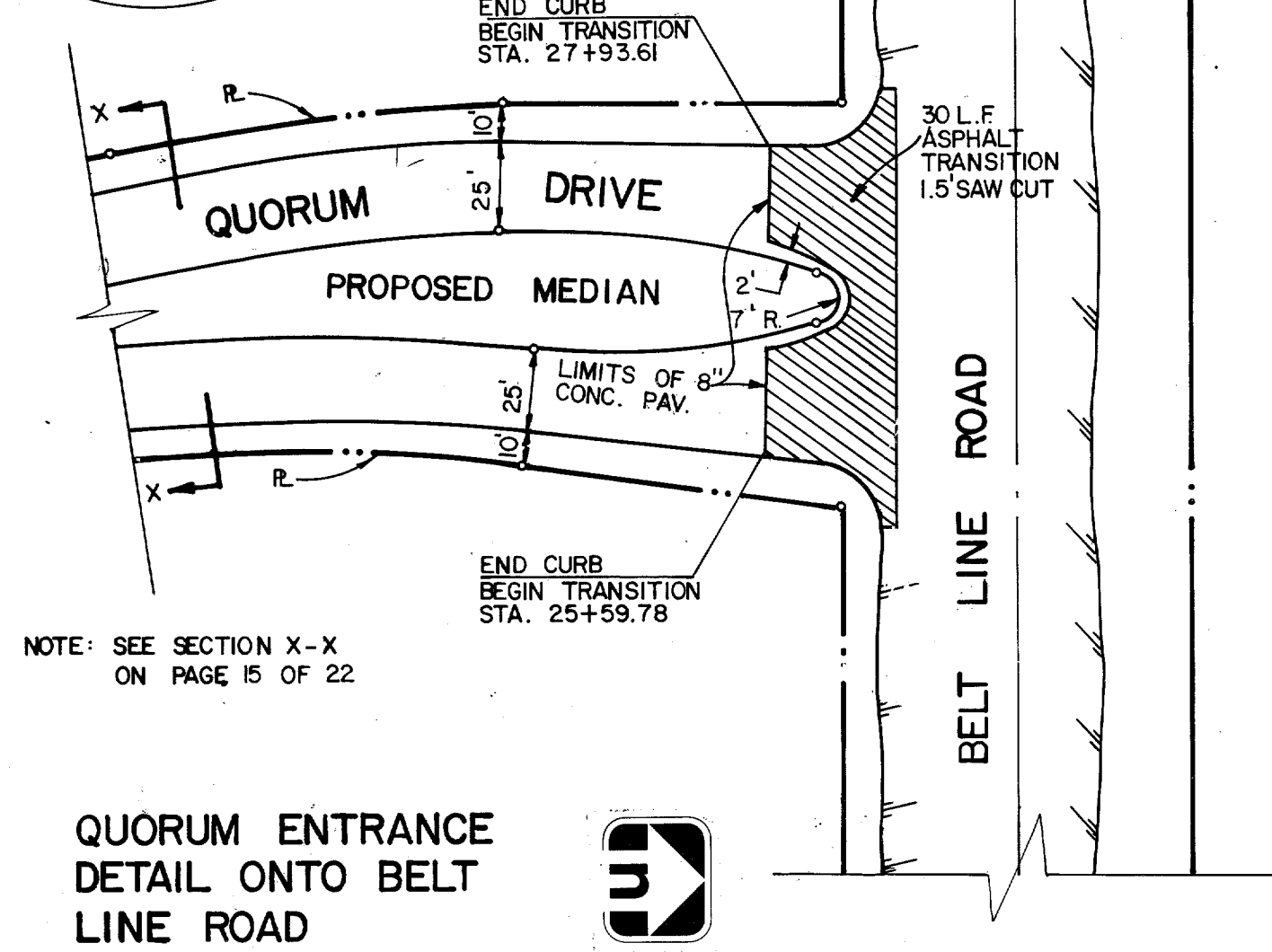
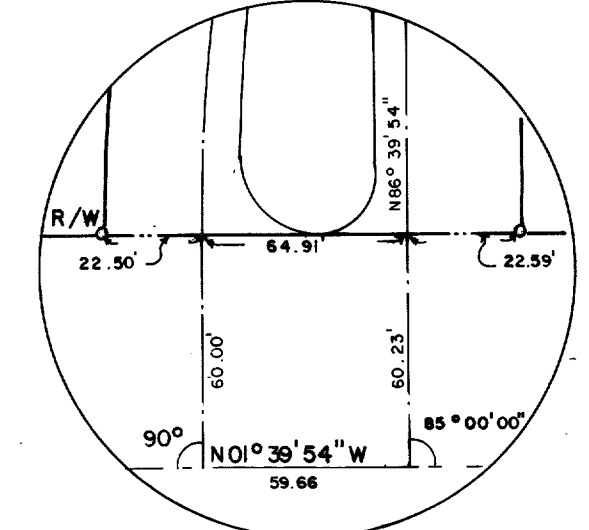
DEPARTMENT OF PUBLIC WORKS
CITY OF DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	SHEET NO.
WEP				NONE	424 Q	22 of 22



☉ CURVE DATA

C-1	Δ = 25°01'48"	R = 448.40'	T = 99.53'	L = 195.88'
C-2	Δ = 42°00'00"	R = 260.51'	T = 100.00'	L = 190.56'
C-3	Δ = 84°00'00"	R = 257.51'	T = 231.86'	L = 377.52'
C-4	Δ = 46°00'00"	R = 639.61'	T = 271.50'	L = 513.51'
C-5	Δ = 37°23'58"	R = 613.38'	T = 207.61'	L = 400.37'
C-6	Δ = 15°58'29"	R = 385.50'	T = 54.10'	L = 107.49'
C-7	Δ = 15°30'00"	R = 1704.25'	T = 231.94'	L = 461.04'
C-8	Δ = 46°00'00"	R = 799.93'	T = 339.55'	L = 642.22'
C-9	Δ = 21°26'45"	R = 927.41'	T = 175.62'	L = 347.13'
C-10	Δ = 98°31'27"	R = 165.00'	T = 191.58'	L = 283.74'
C-11	Δ = 23°30'00"	R = 311.78'	T = 64.85'	L = 127.88'
C-12	Δ = 50°30'00"	R = 279.88'	T = 132.00'	L = 246.69'
C-13	Δ = 13°00'00"	R = 439.99'	T = 50.13'	L = 99.82'
C-14	Δ = 68°49'15"	R = 323.73'	T = 221.75'	L = 388.85'
C-15	Δ = 47°00'00"	R = 333.48'	T = 145.00'	L = 273.55'
C-16	Δ = 40°47'17"	R = 380.97'	T = 141.64'	L = 271.21'
C-17	Δ = 60°29'07"	R = 279.78'	T = 163.12'	L = 295.36'
C-18	Δ = 33°50'47"	R = 217.42'	T = 66.15'	L = 128.44'



NOTE: SEE SECTION X-X ON PAGE 15 OF 22

QUORUM ENTRANCE
DETAIL ONTO BELT
LINE ROAD



1" = 50'

PAVING PLAN

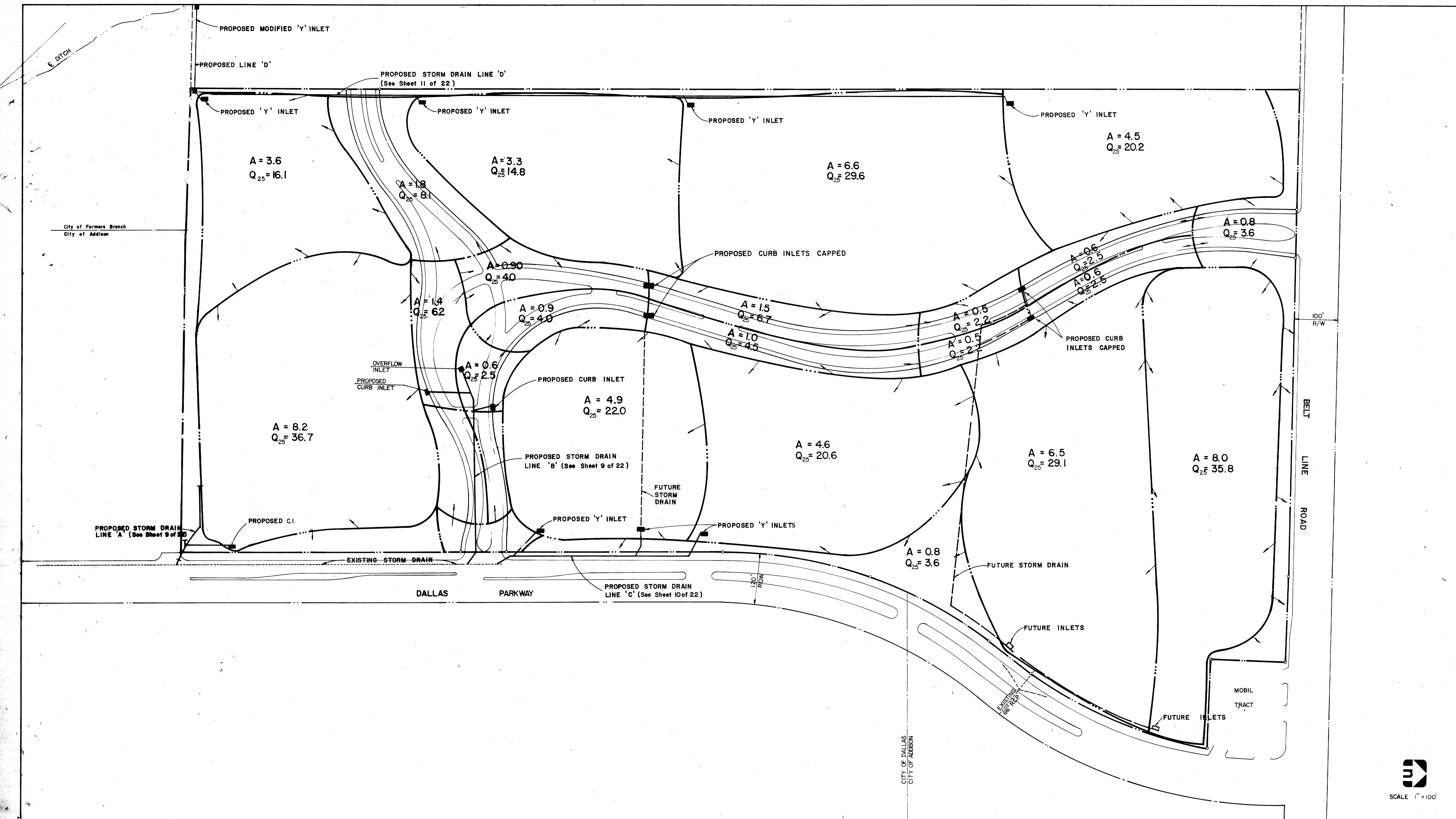
QUORUM ADDISON, TEXAS

Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

Date: 3.1.79
File: 314-1437
Drawn By: GA1
Sheet 3 of 22



SCALE: 1" = 100'



City of Farmers Branch
City of Addison

CITY OF DALLAS
CITY OF ADDISON

SCALE 1" = 100'

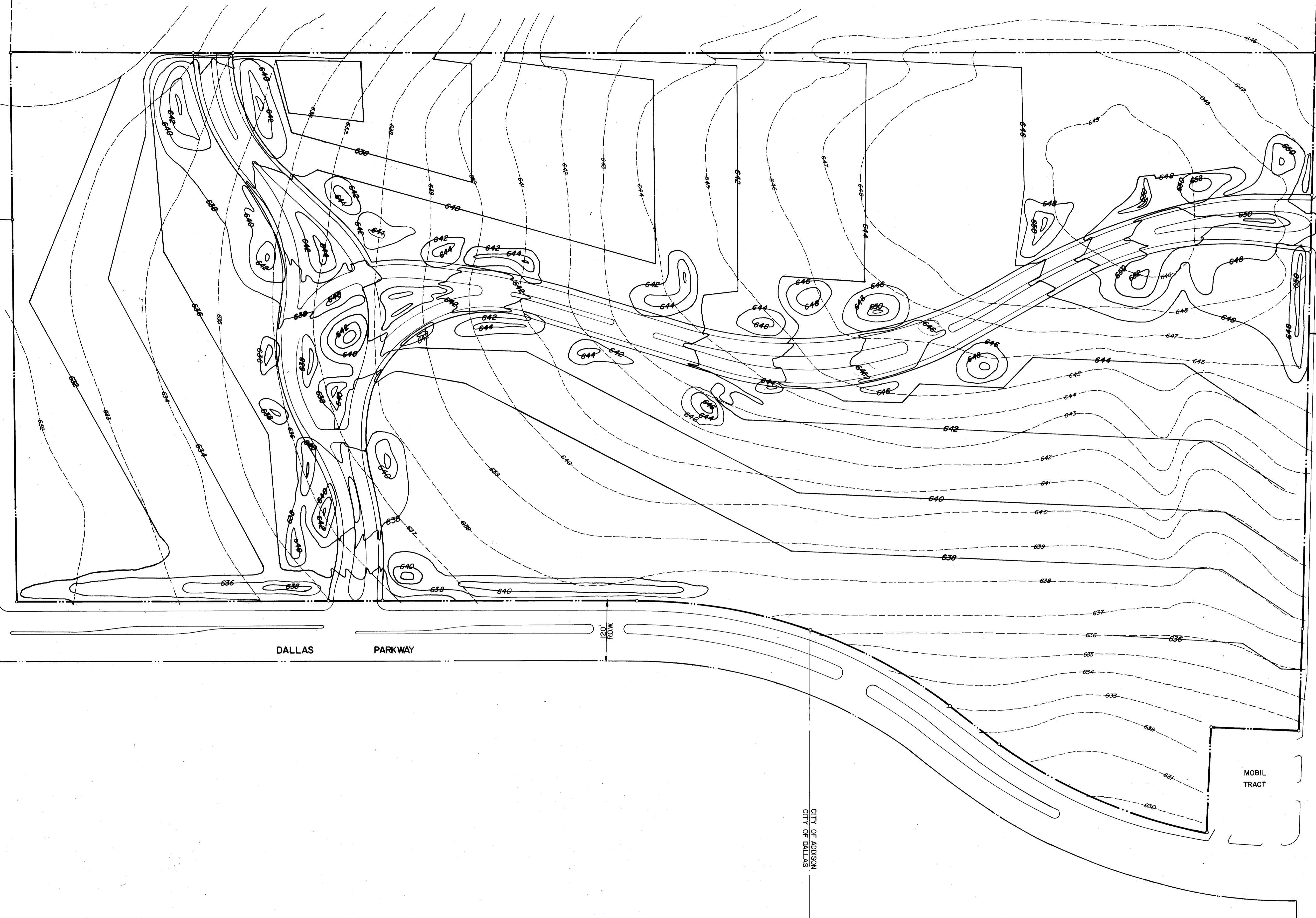
DRAINAGE AREA MAP
QUORUM
ADDISON, TEXAS

DATE 8/1/79
BY R.H.
DRAWN 8/1/80

Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

314 1437
Sheet 4 of 22

CITY OF FARMERS BRANCH
CITY OF ADDISON

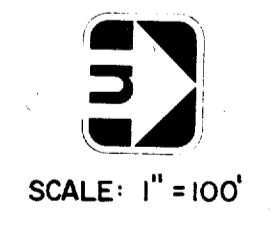


DALLAS PARKWAY

100' ROW
BELT LINE ROAD

MOBIL TRACT

CITY OF ADDISON
CITY OF DALLAS

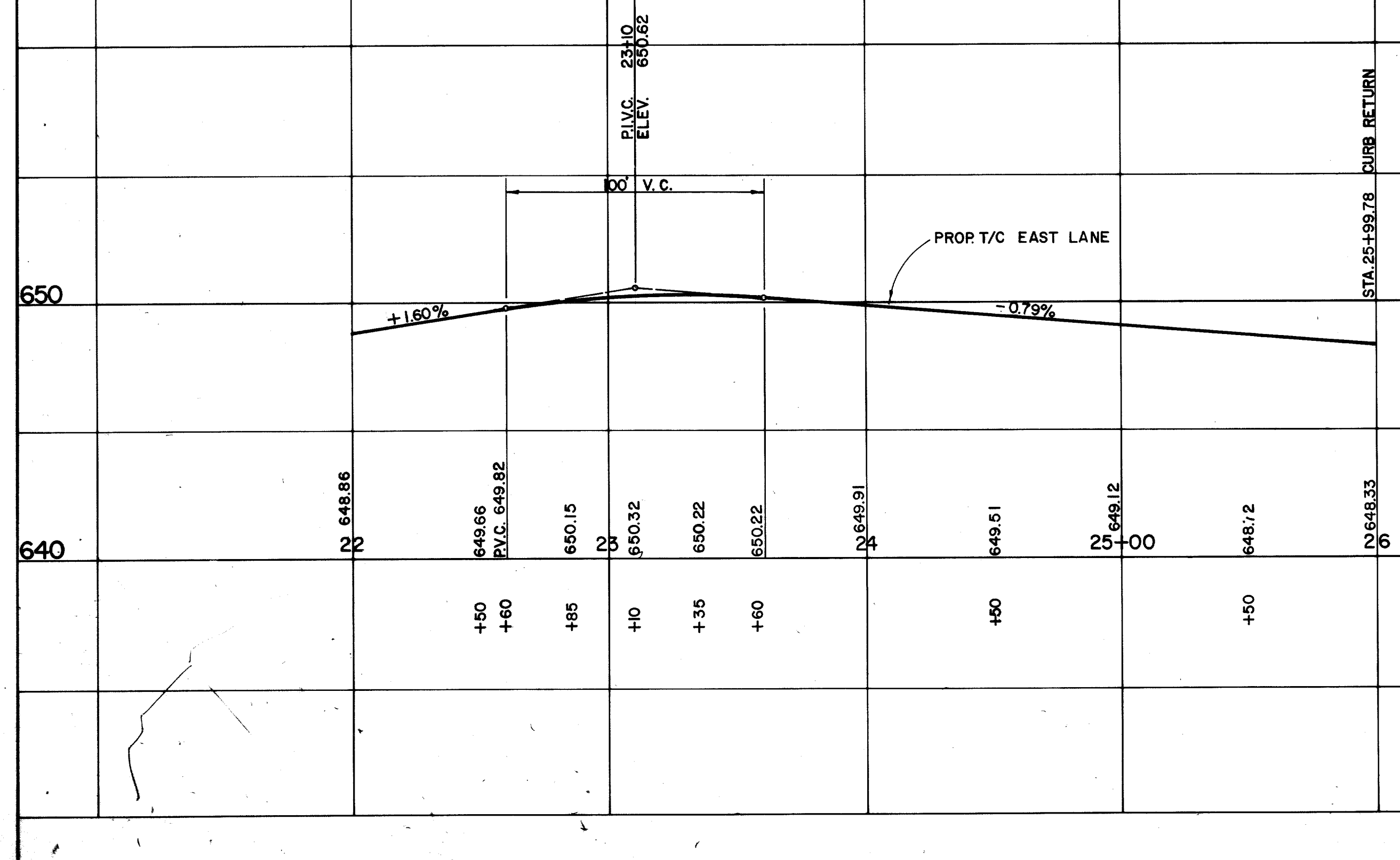
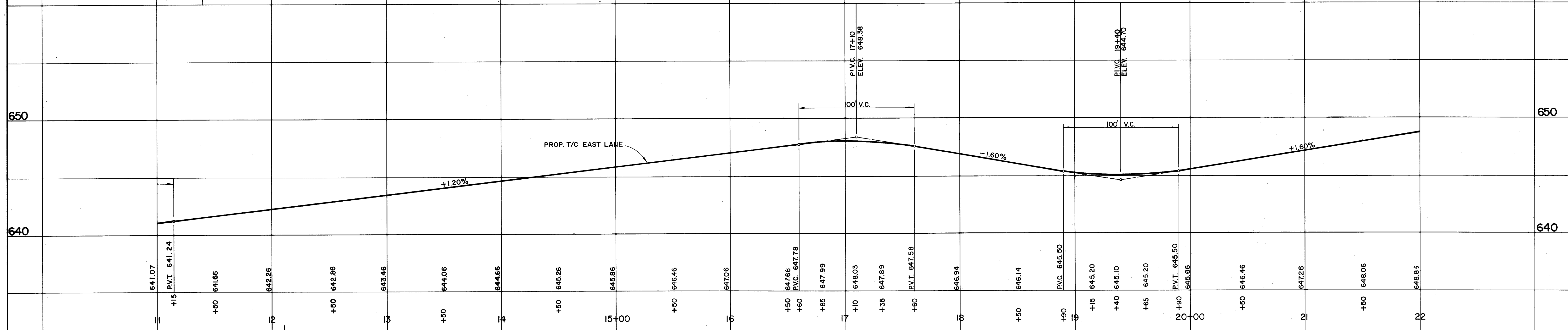
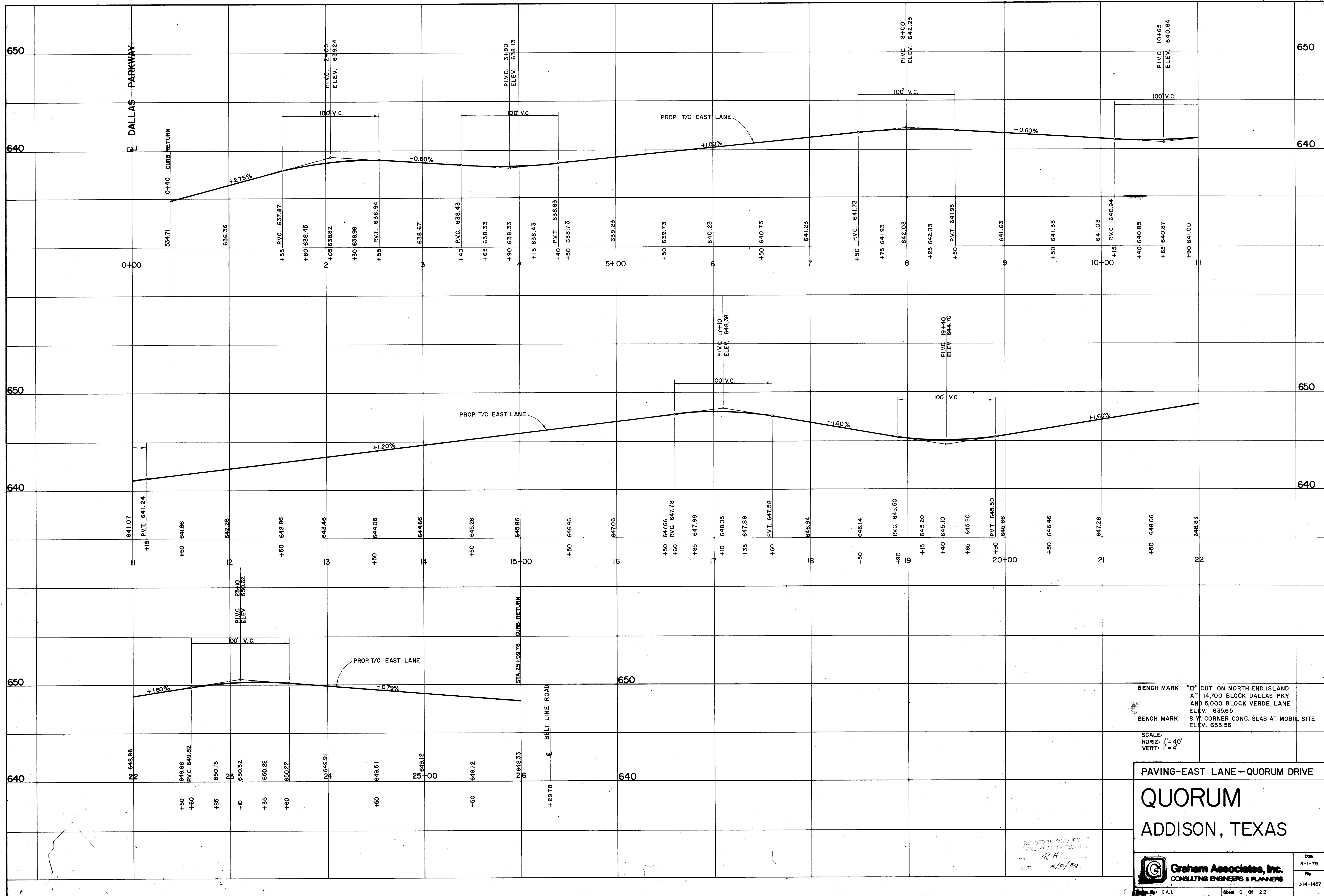


LEGEND	
PROPOSED GRADES	———
EXISTING GRADES	- - - - -

RA
8/6/80

GRADING PLAN
QUORUM
ADDISON, TEXAS

	Graham Associates, Inc.	Date
	CONSULTING ENGINEERS & PLANNERS	3-1-79
Drawn By: G.A.I.	Sheet 5 Of 22	File
		314-1437



BENCH MARK "D" CUT ON NORTH END ISLAND AT 14,700 BLOCK DALLAS PKY AND 5,000 BLOCK VERDE LANE ELEV. 635.65
 BENCH MARK S.W. CORNER CONC. SLAB AT MOBIL SITE ELEV. 633.56

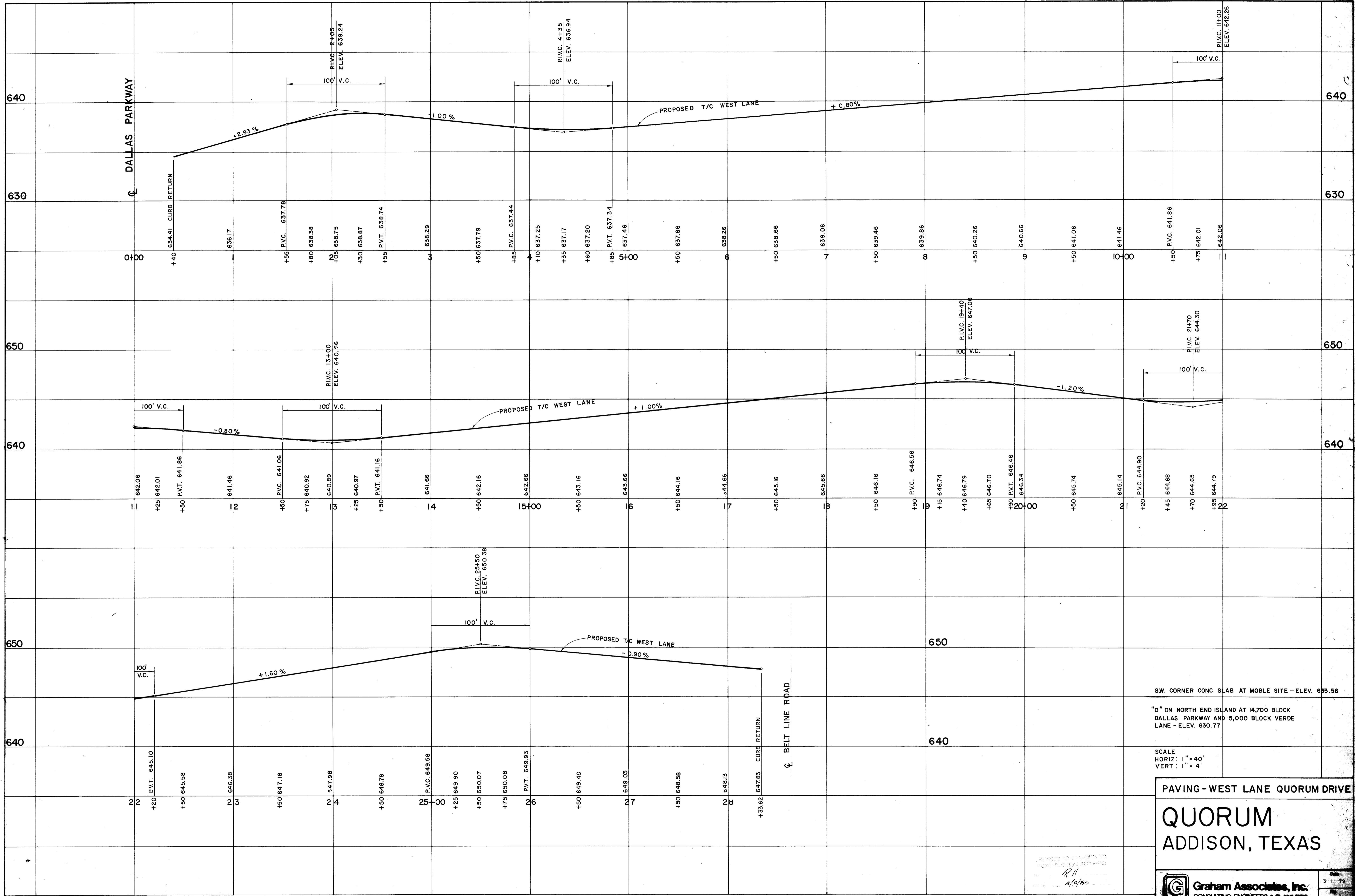
SCALE:
 HORIZ: 1" = 40'
 VERT: 1" = 4'

PAVING-EAST LANE-QUORUM DRIVE
QUORUM
 ADDISON, TEXAS

REVISED TO CONFORM TO CONSTRUCTION REQUIREMENTS
 BY RA
 DATE 2/6/80

Graham Associates, Inc.
 CONSULTING ENGINEERS & PLANNERS

Date: 3-1-79
 File: 314-1457



PAVING - WEST LANE QUORUM DRIVE

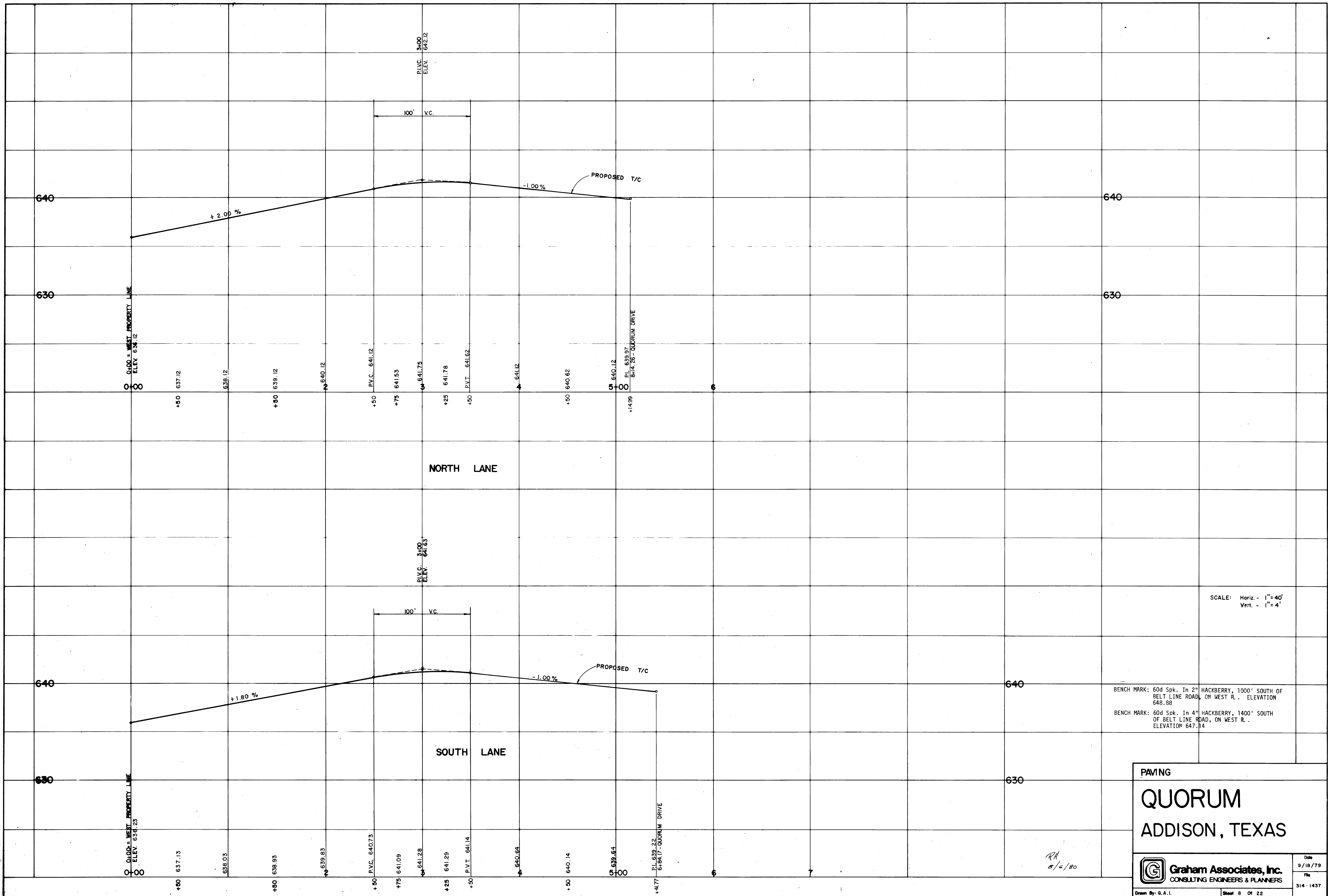
QUORUM ADDISON, TEXAS

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

Revised to conform to
3/1/79
RH
5/10/80

Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

Sheet 7 of 22



SCALE: Horiz. - 1" = 40'
Vert. - 1" = 4'


BENCH MARK: 60d Spk. In 2" HACKBERRY, 1000' SOUTH OF BELT LINE ROAD, ON WEST R. ELEVATION 648.88
BENCH MARK: 60d Spk. In 4" HACKBERRY, 1400' SOUTH OF BELT LINE ROAD, ON WEST R. ELEVATION 647.14

RA
5/10/80

PAVING

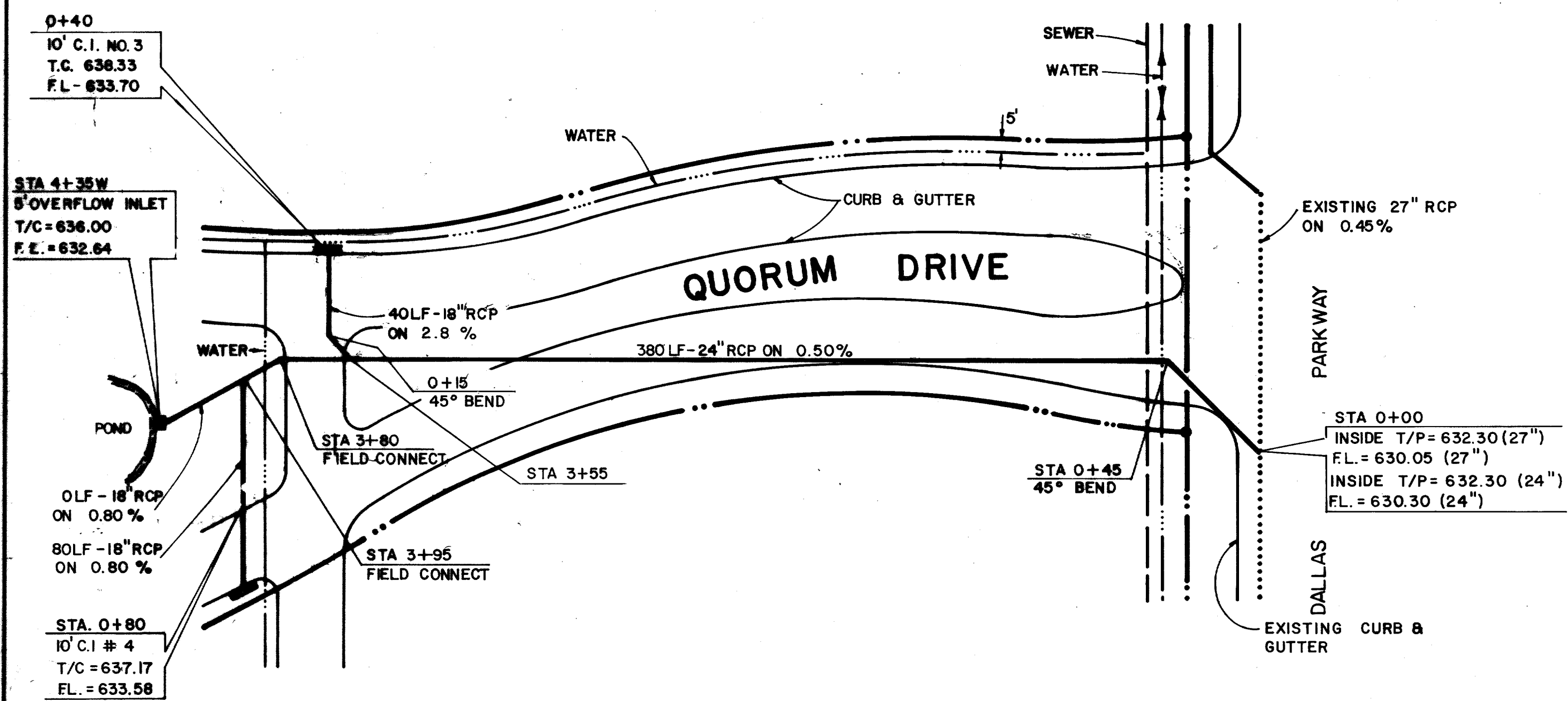
QUORUM

ADDISON, TEXAS



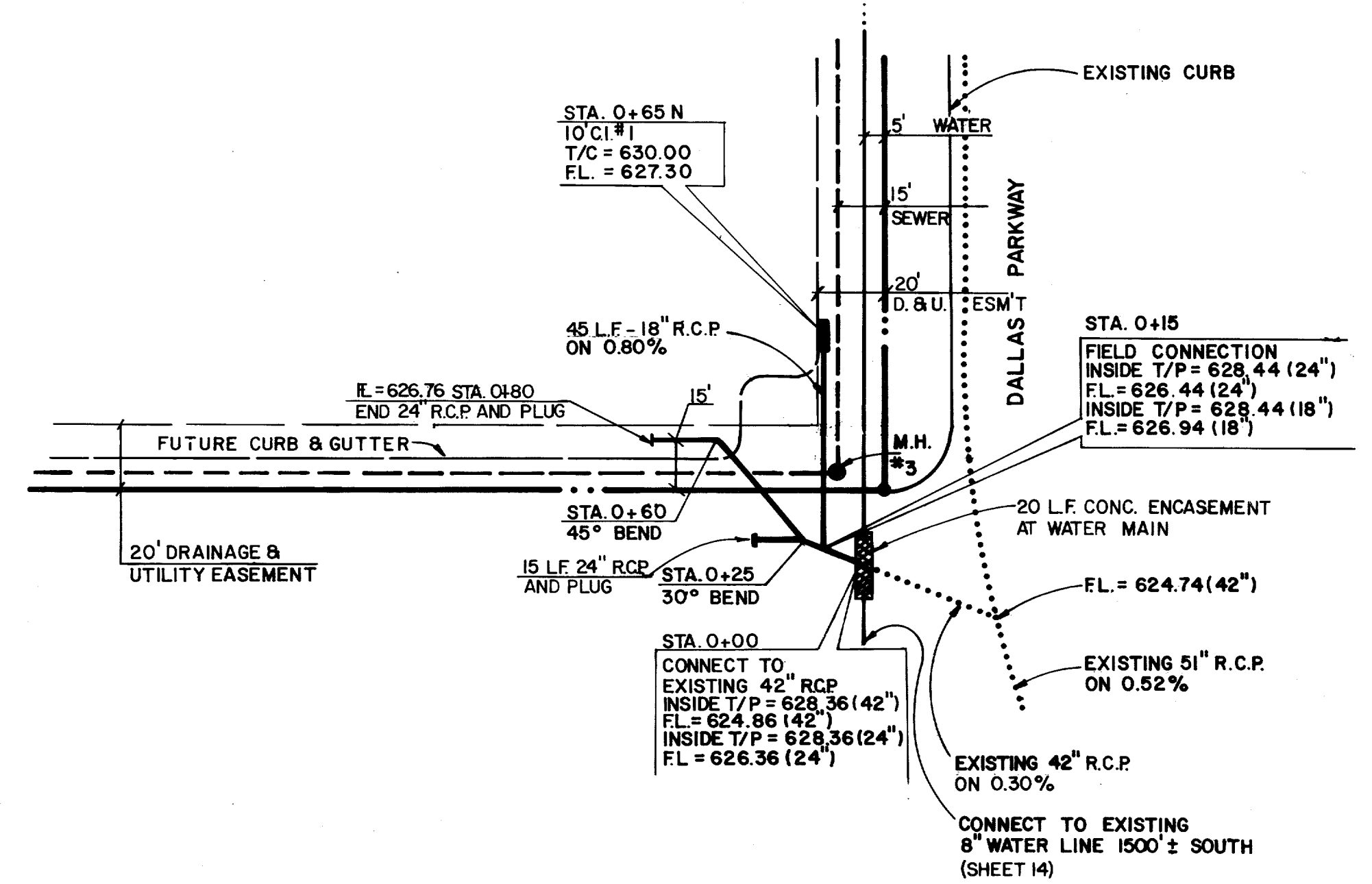
Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

Date: 9/18/79
File: 314-1437
Drawn By: G.A.I. Sheet 8 Of 22



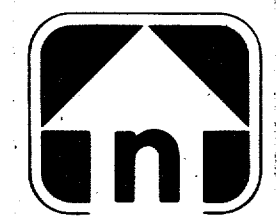
LINE B PLAN

NOTE:
 ALL R.C.P. PIPE SHALL BE CLASS III ASTM-C-76
 ALL R.C.P. PIPE SHALL BE SET IN CONCRETE
 CRADLE BEDDING PER CITY OF DALLAS
 STANDARD DETAILS.

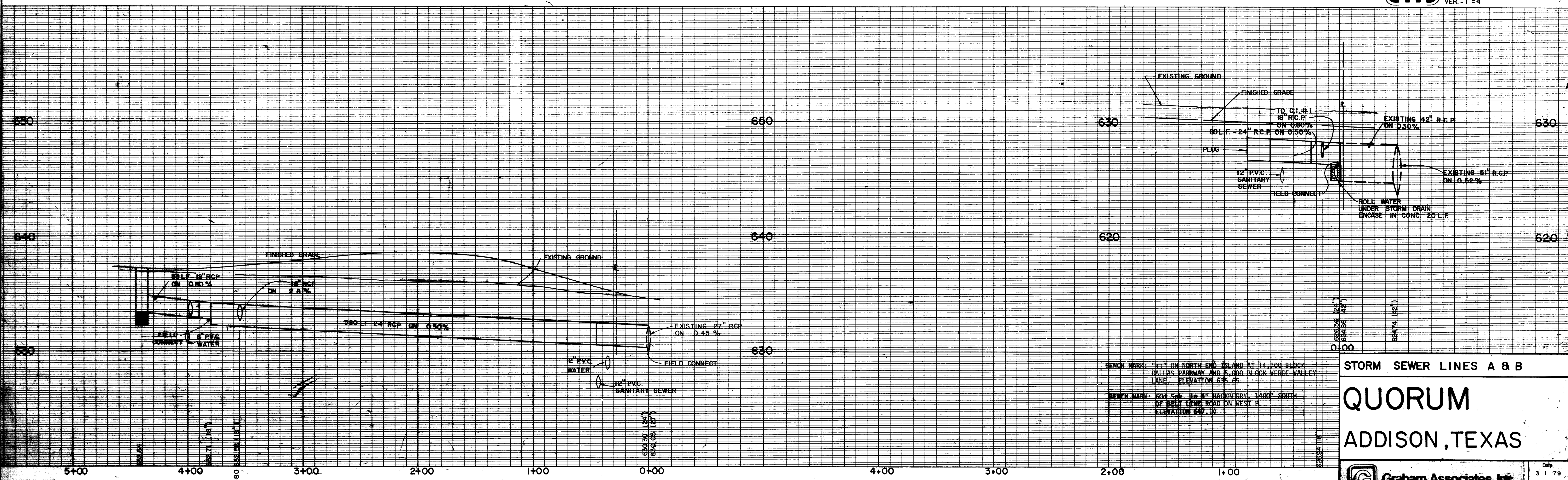


LINE A PLAN

REVISIONS TO CONFORM TO
 CONSTRUCTION RECORDS:
 BY: RH
 DATE: 6/6/80



SCALE
 HOR. - 1" = 40'
 VER. - 1" = 4'

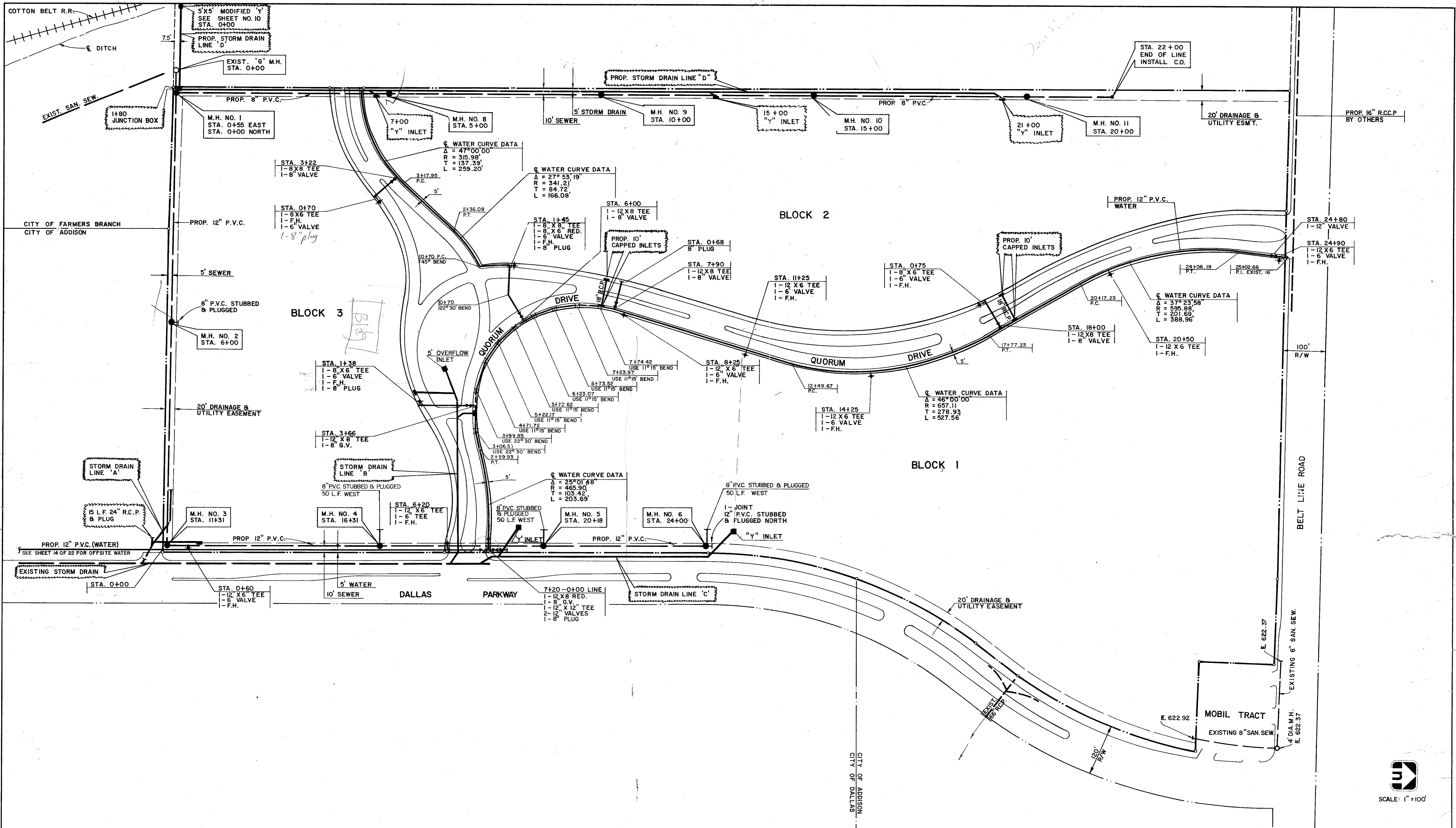


BENCH MARK: "CI" ON NORTH END ISLAND AT 14,700 BLOCK DALLAS PARKWAY AND 5,000 BLOCK VERDE VALLEY LANE. ELEVATION 635.65
 BENCH MARK: 2005 SW 1/4 N. HICKBERRY, 1400' SOUTH OF BELLY CREEK ROAD ON WEST R. ELEVATION 647.70

STORM SEWER LINES A & B

QUORUM
 ADDISON, TEXAS

Graham Associates, Inc.
 CONSULTING ENGINEERS & PLANNERS



UTILITY SITE PLAN

QUORUM ADDITION, TEXAS

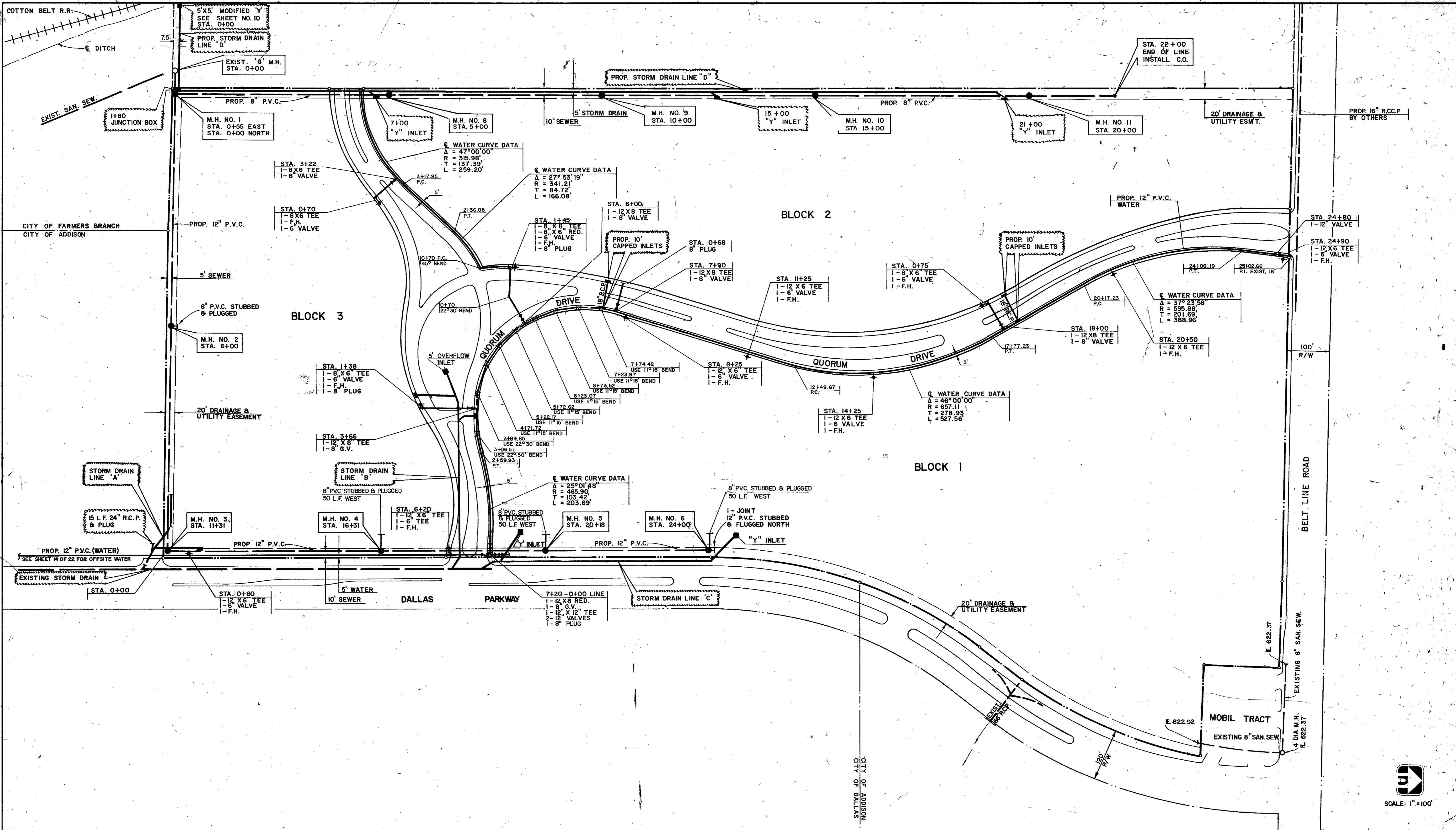
RA
8/6/80

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Scale: 1" = 100'

DATE: 3-1-79
FILE: 314-1437

Drawn By: G.A.I. Sheet 2 Of 22



UTILITY SITE PLAN
QUORUM
 ADDISON, TEXAS

REVISED TO CONFORM TO
 CONSTRUCTION RECORDS:
 BY *RH*
 DATE *8/6/80*

Scale: 1" = 100'

3

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Drawn By: G.A.I. Sheet 2 of 22