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As Built

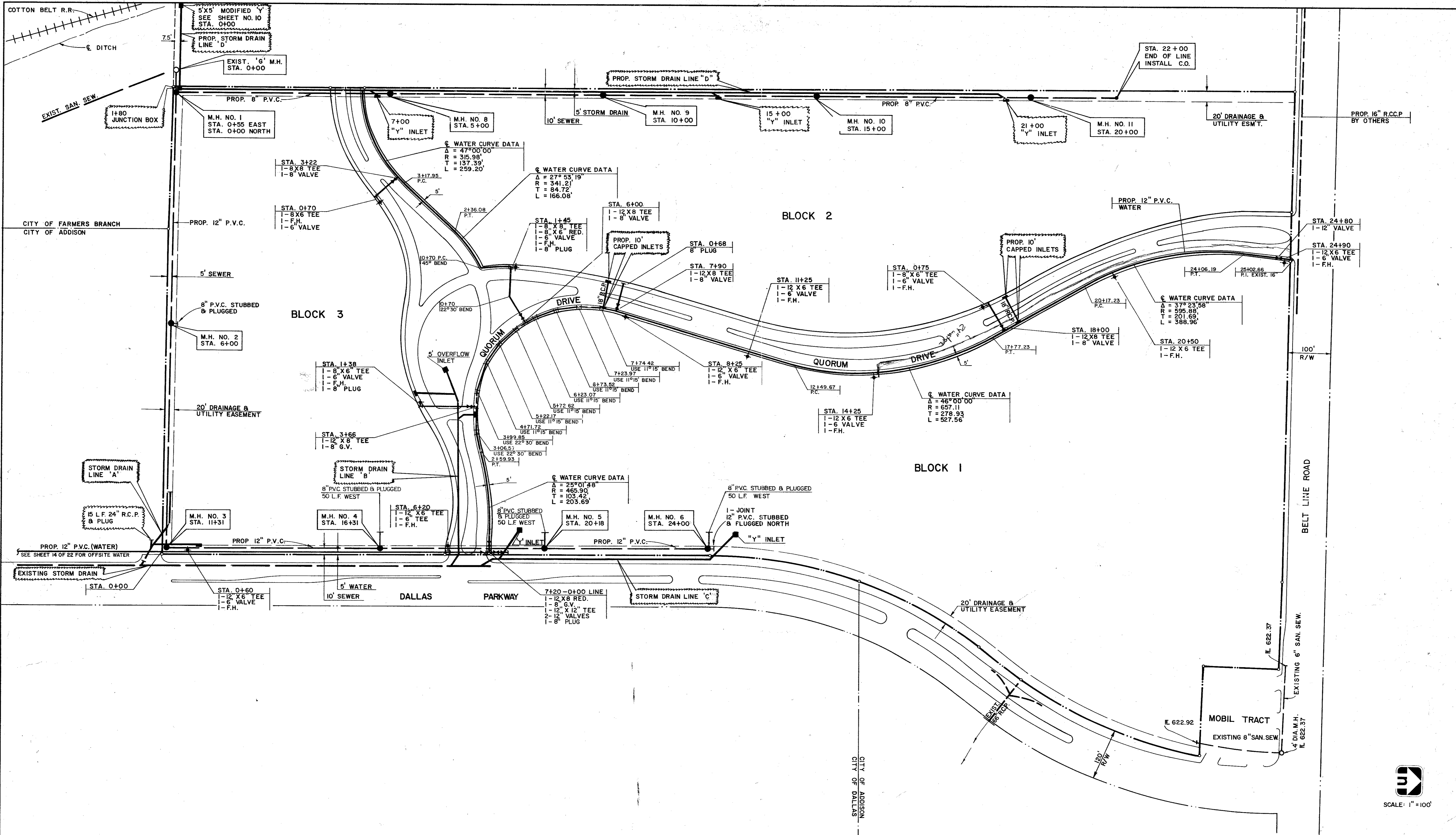
QUORUM

ADDISON, TEXAS

DAON CORPORATION: DEVELOPER

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

RH
8/6/80

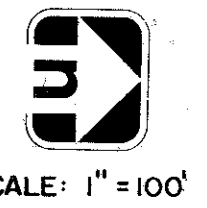


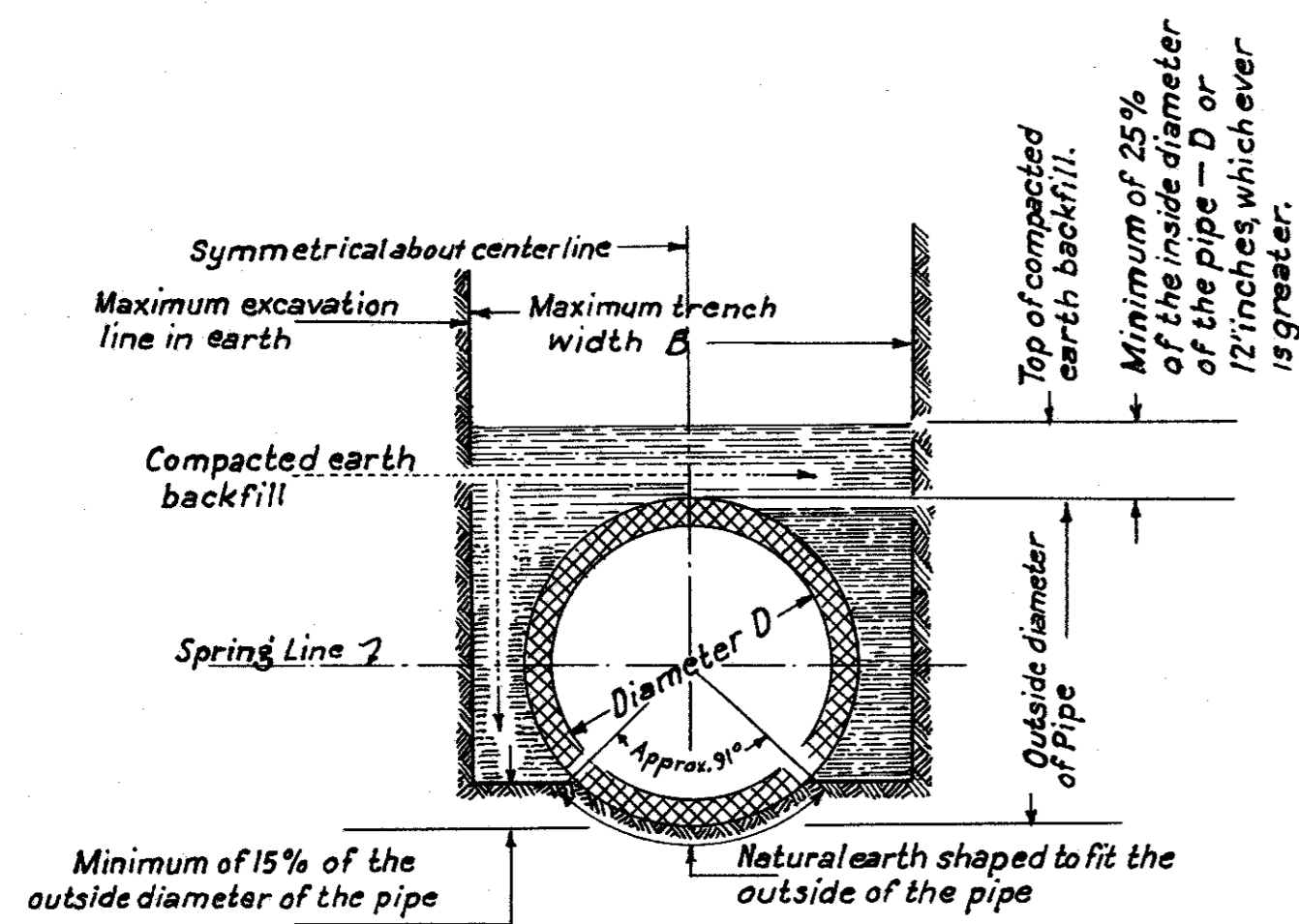
UTILITY SITE PLAN
QUORUM
 ADDISON, TEXAS

Graham Associates, Inc.
 CONSULTING ENGINEERS & PLANNERS

Date: 3-1-79
 File: 314-1437
 Drawn By: G.A.I.
 Sheet 2 of 22

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 8/6/80





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

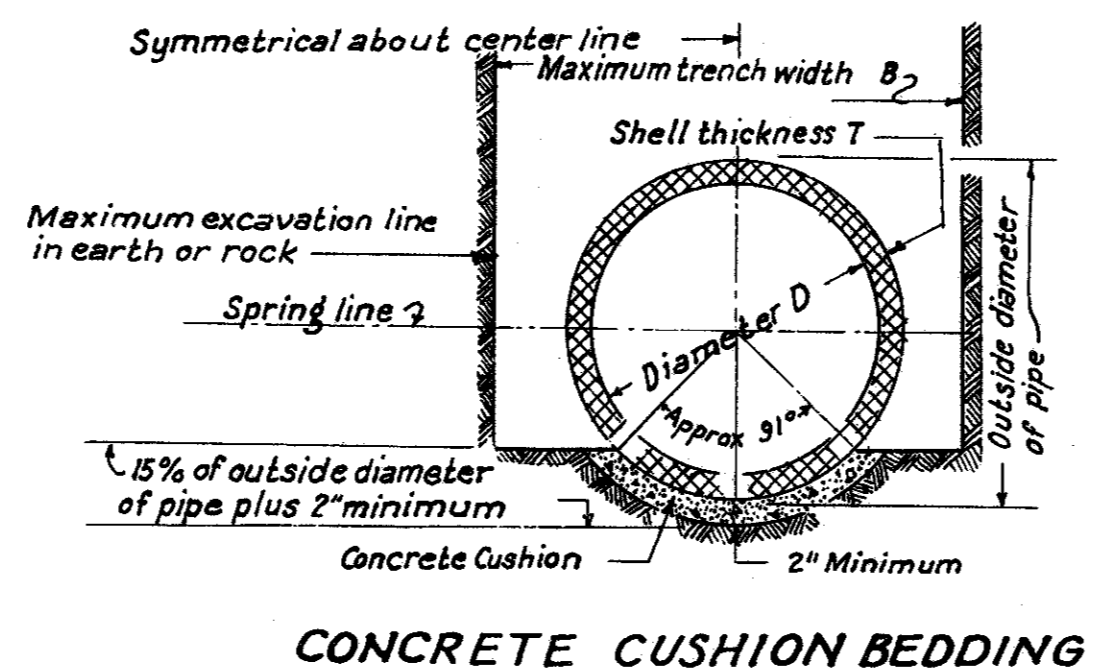
This method of trench bedding and backfill will be required in the construction of all precast pipe sewers where concrete cradle and cushion is not used.

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

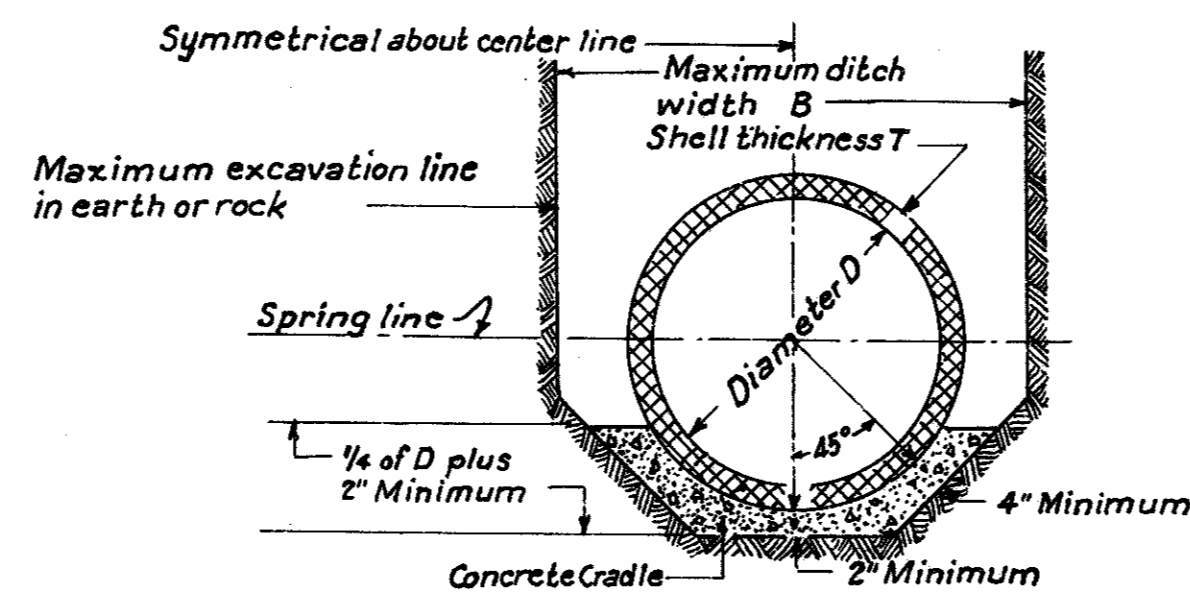
This method of backfill will be required in the construction of all precast pipe sewers with concrete cradle and concrete cushion.

NOTES

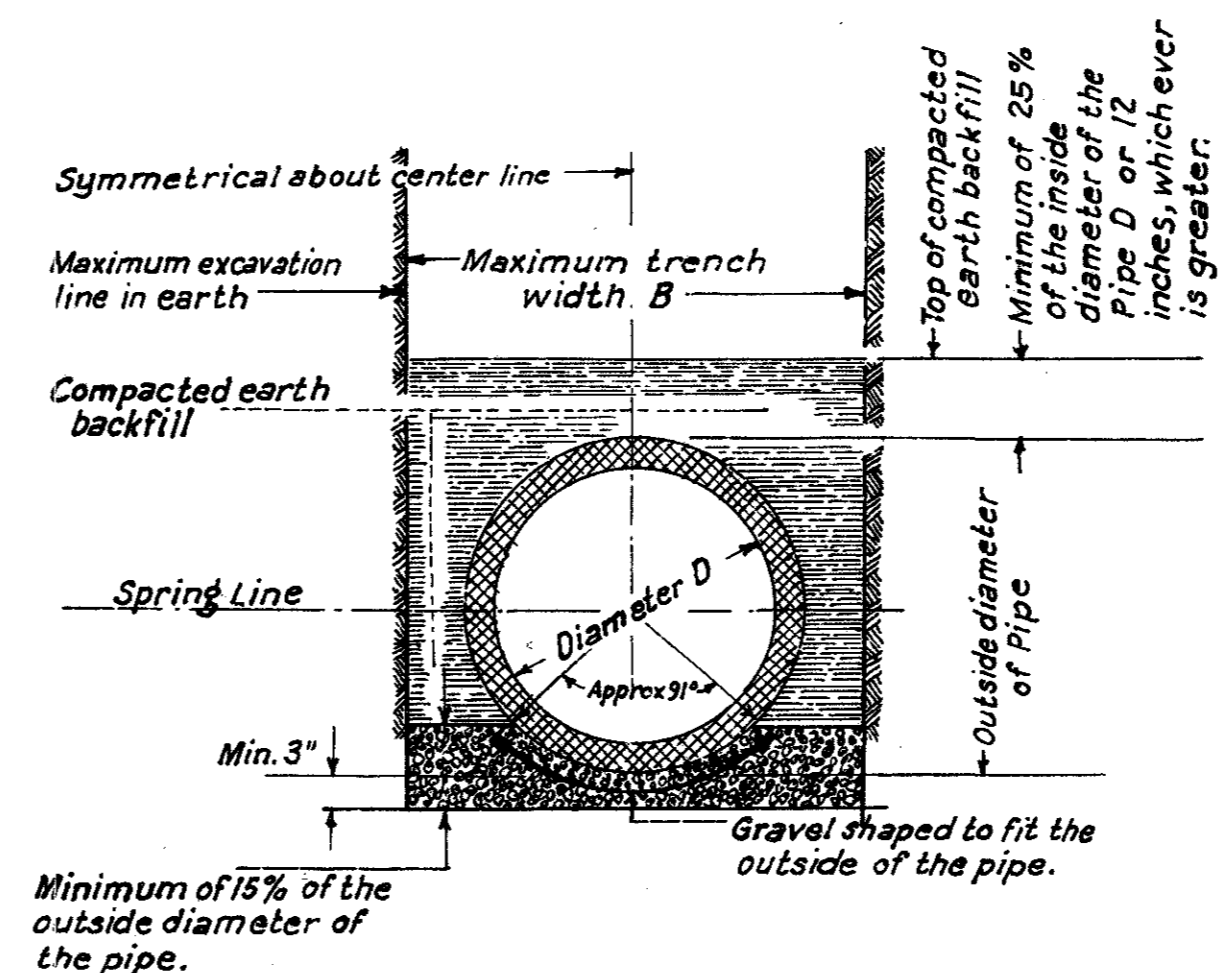
- 1- Concrete for cushion or for cradle shall consist of 1 part cement and 12 parts aggregate. Any unauthorized excess excavation for cushion or cradle shall be filled with concrete at the contractors expense. No pipe shall be laid in a rock trench without using concrete cushion unless another type of 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 of reinforced concrete pipe conforming to designation C76 of the current A.S.T.M. Specifications.



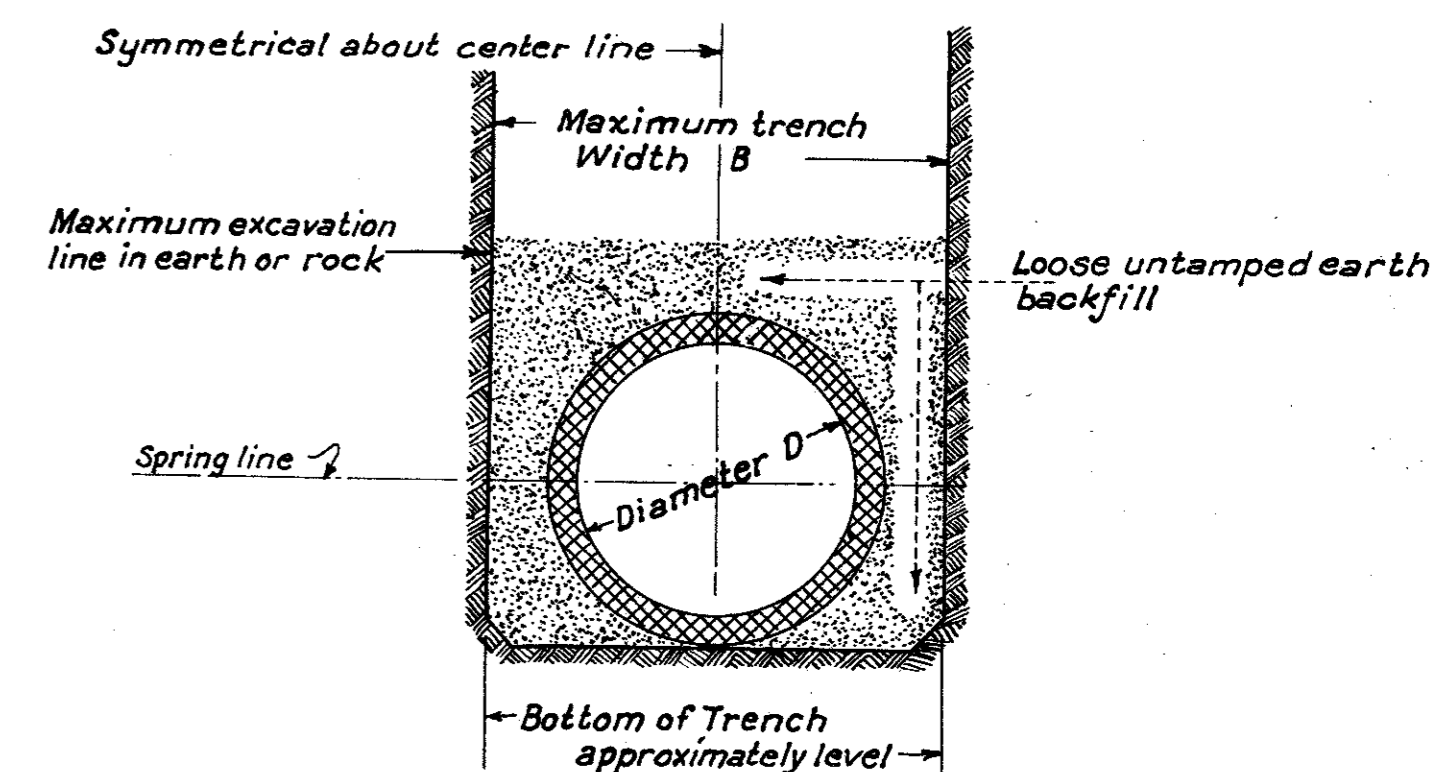
CONCRETE CUSHION BEDDING



CONCRETE CRADLE BEDDING

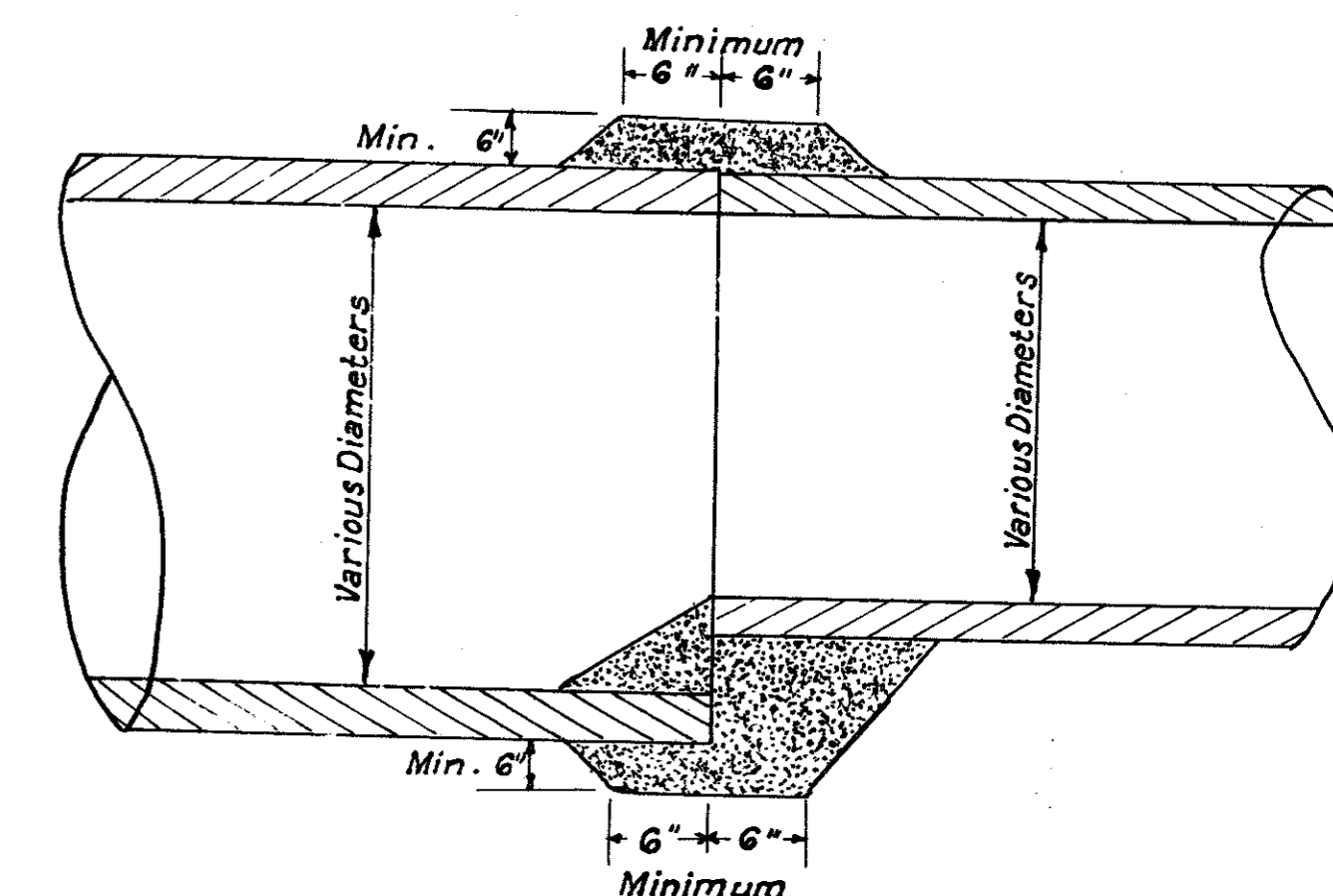


GRAVEL BEDDING



UNACCEPTABLE TRENCH BEDDING AND BACKFILL FOR ALL PRECAST PIPE SEWERS

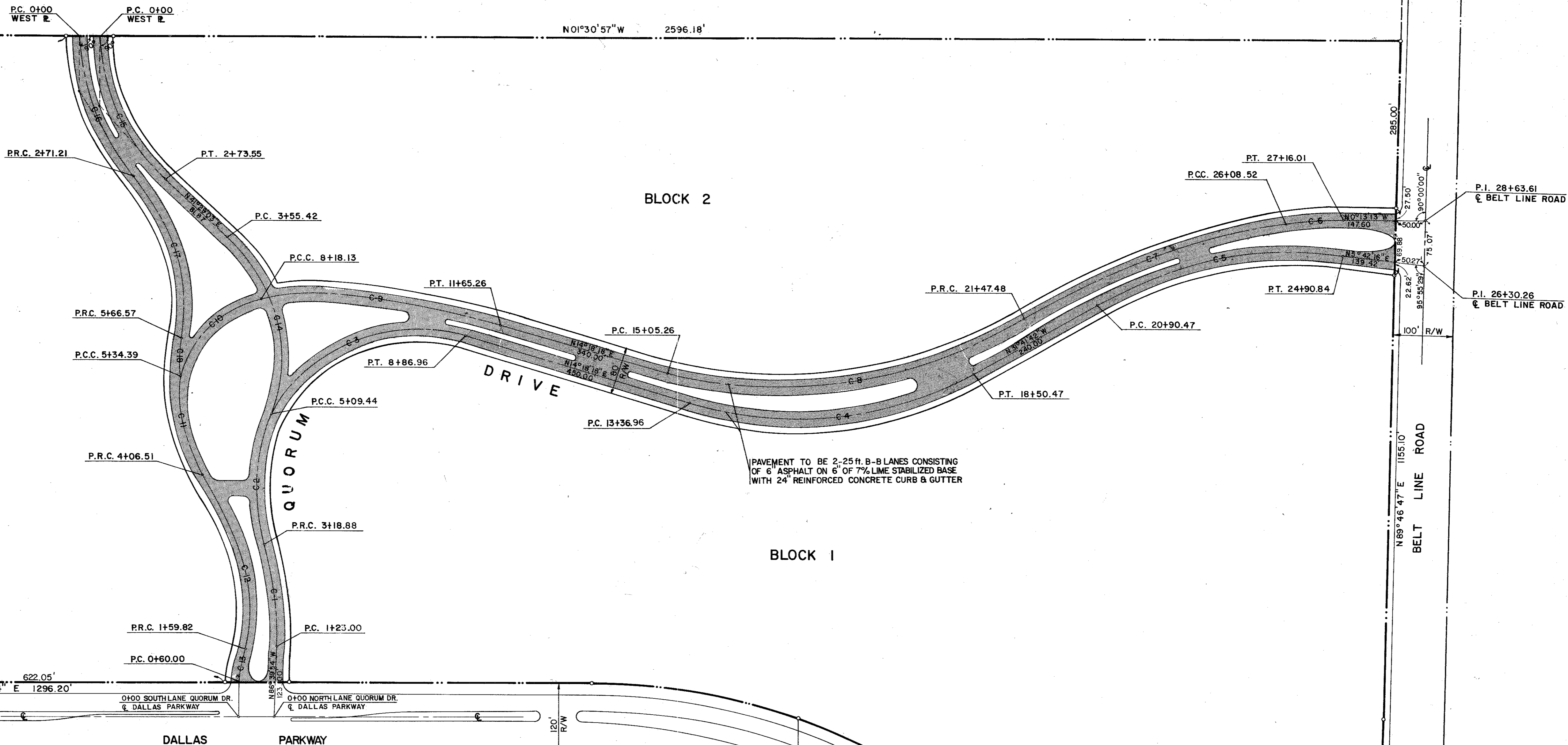
This method of trench bedding and backfill will not be permitted in the construction of precast pipe sewers.



DETAIL OF CONCRETE COLLAR FOR END TO END PIPE EXTENSIONS

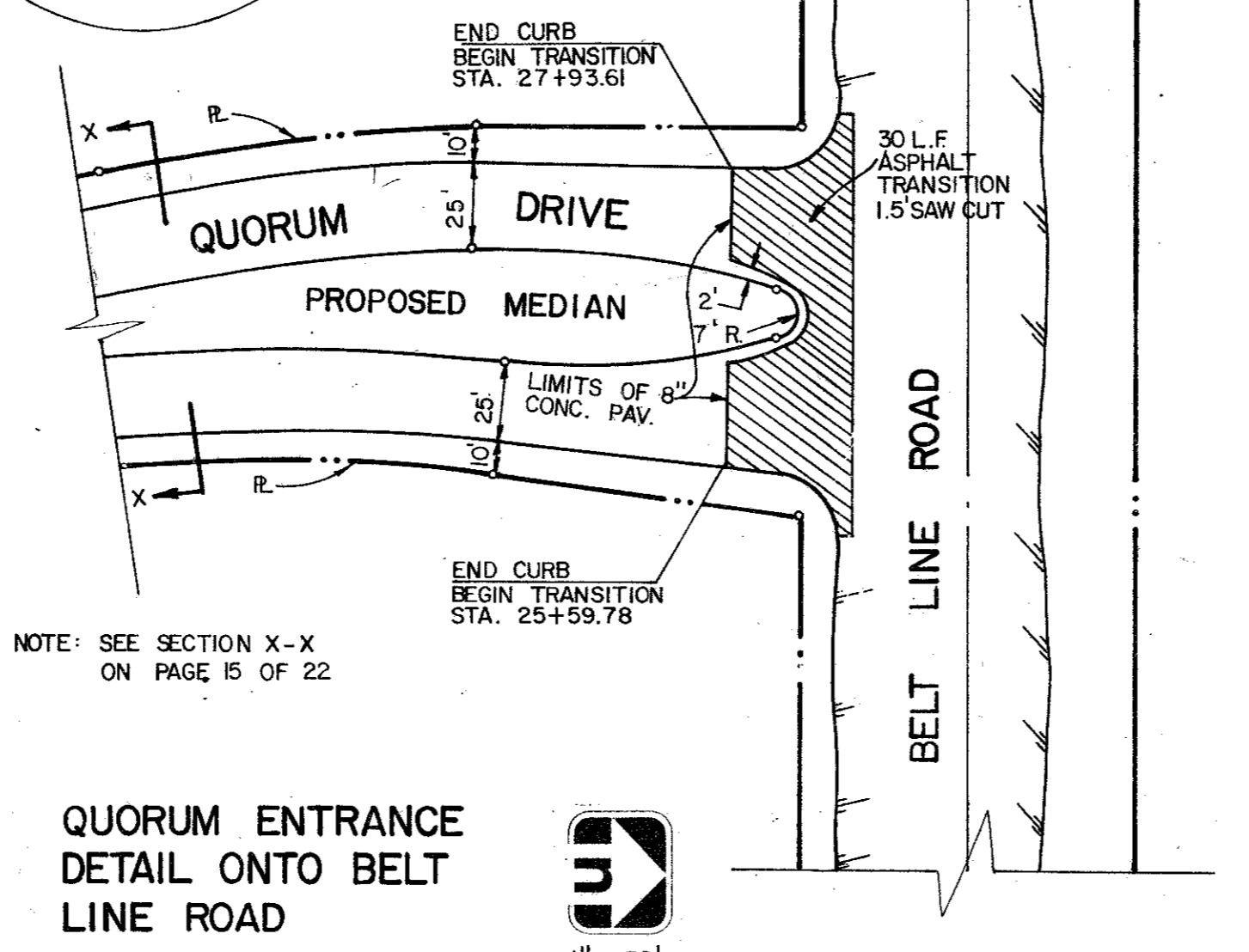
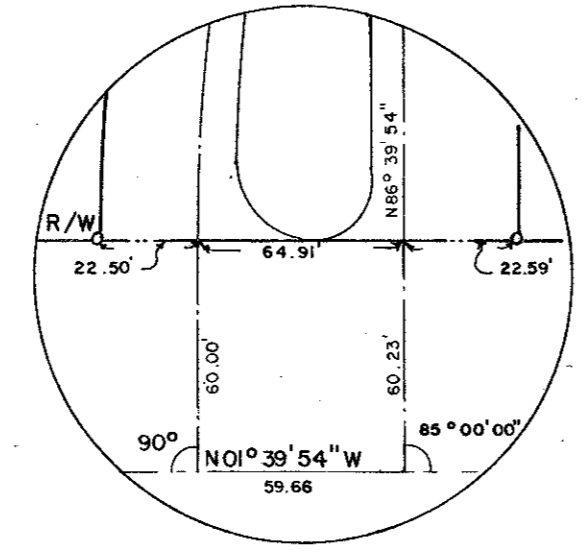
QUOROM

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	424 Q	21 of 22

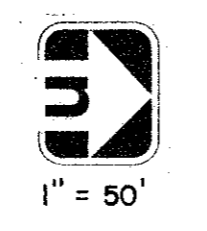


☉ CURVE DATA

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'



**QUORUM ENTRANCE
DETAIL ONTO BELT
LINE ROAD**



PAVING PLAN

QUORUM ADDISON, TEXAS

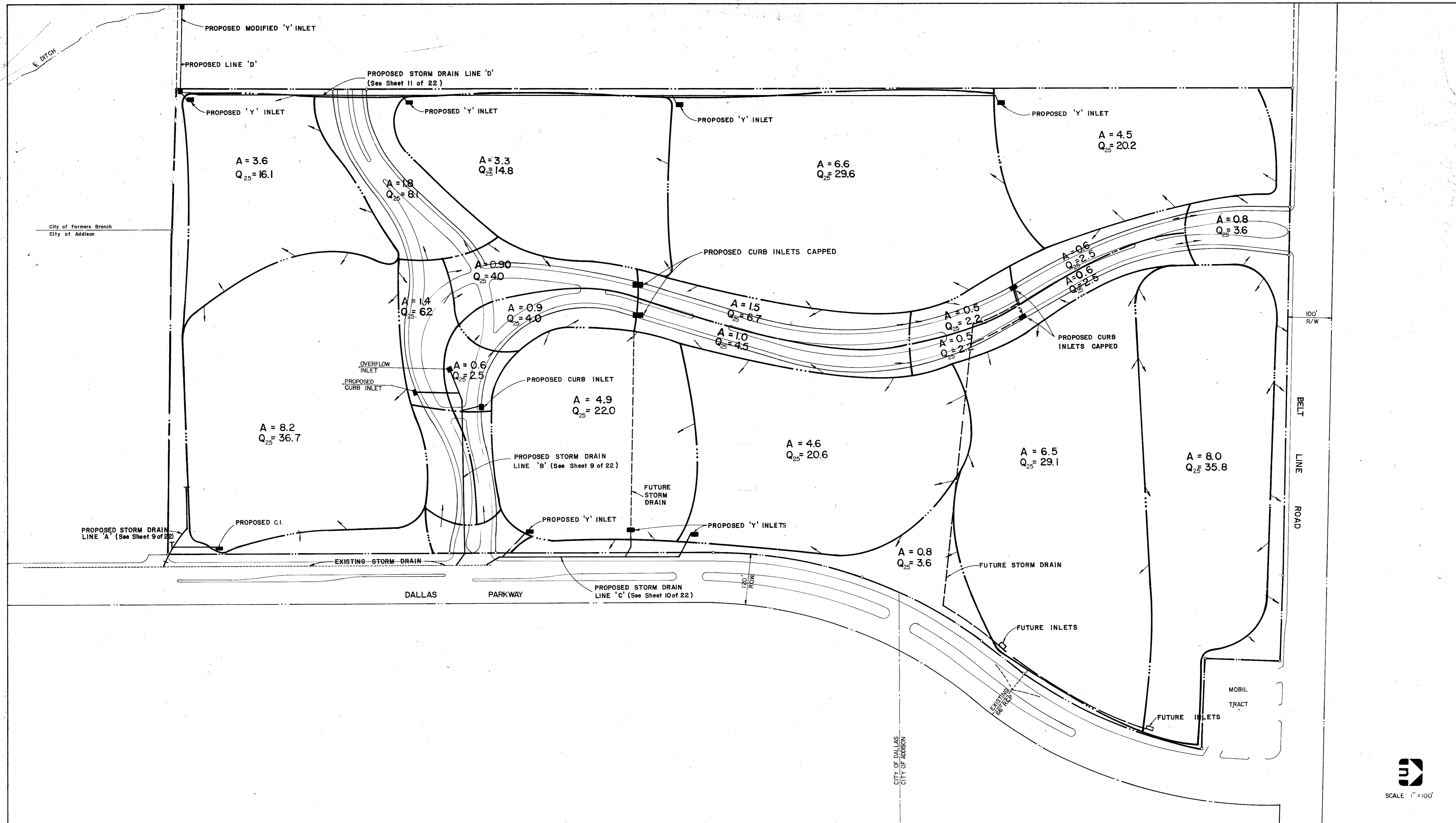
Drawn By: G.A.I. Sheet 3 of 22

Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

Date: 3.1.79
File: 314-1437



SCALE: 1" = 100'



City of Farmers Branch
City of Addison

CITY OF DALLAS
CITY OF ADDISON

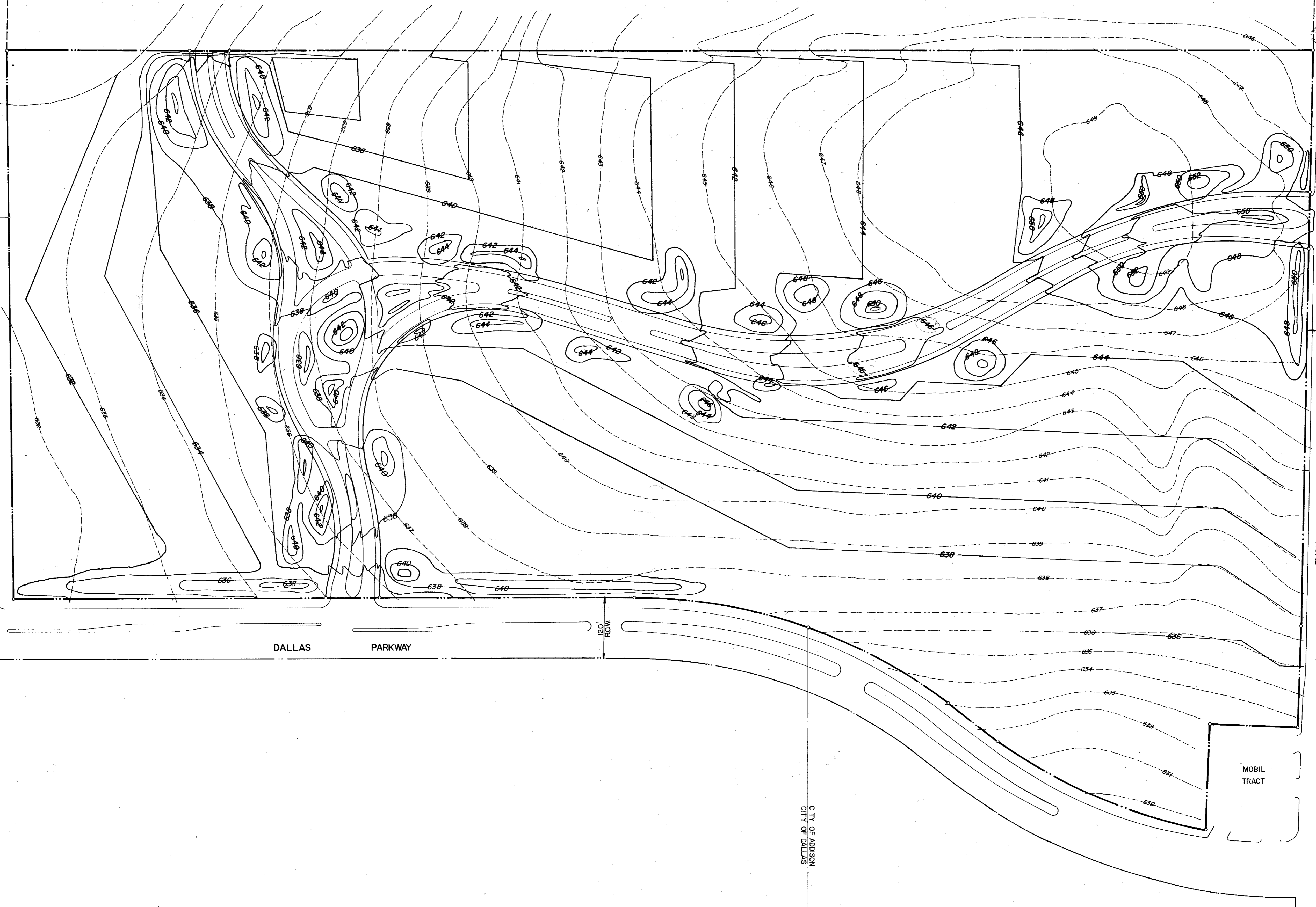
SCALE: 1" = 100'

DRAINAGE AREA MAP
QUORUM
ADDISON, TEXAS

R.H.
8/6/80

Graham Associates, Inc. CONSULTING ENGINEERS & PLANNERS	Date 3-1-79
	File 314 1437
Drawn By: G.A.I. Sheet 4 of 22	

CITY OF FARMERS BRANCH
CITY OF ADDISON

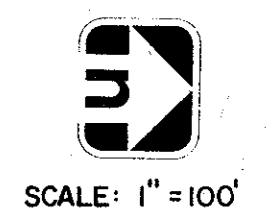


100' ROW.
BELT LINE ROAD

DALLAS PARKWAY


MOBIL TRACT

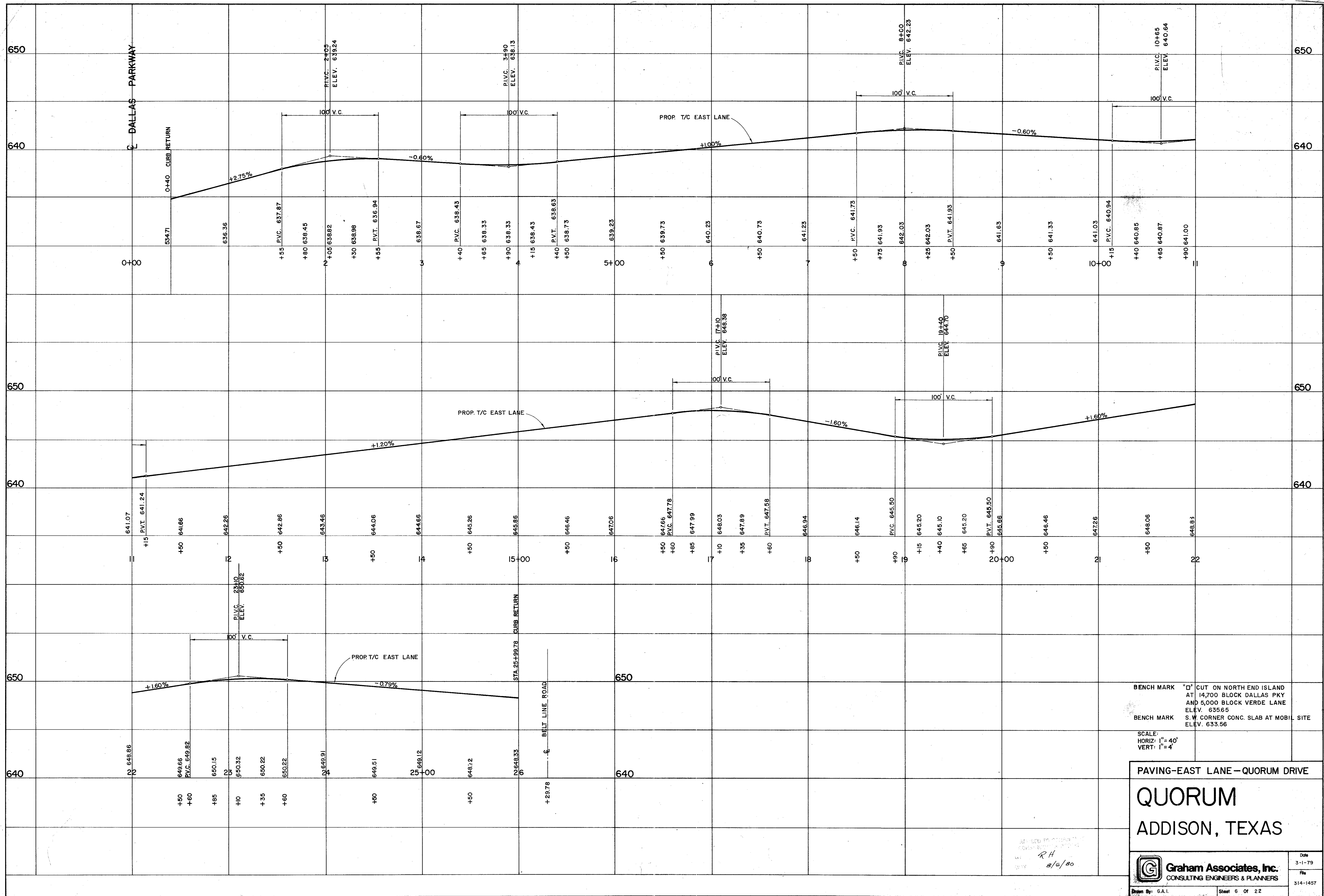
CITY OF ADDISON
CITY OF DALLAS



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

RA
8/6/80

GRADING PLAN	
QUORUM	
ADDISON, TEXAS	
 Graham Associates, Inc. CONSULTING ENGINEERS & PLANNERS	Date 3 - 1 - 79 File 314 - 1437
Drawn By G.A.I.	Sheet 5 Of 21



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'

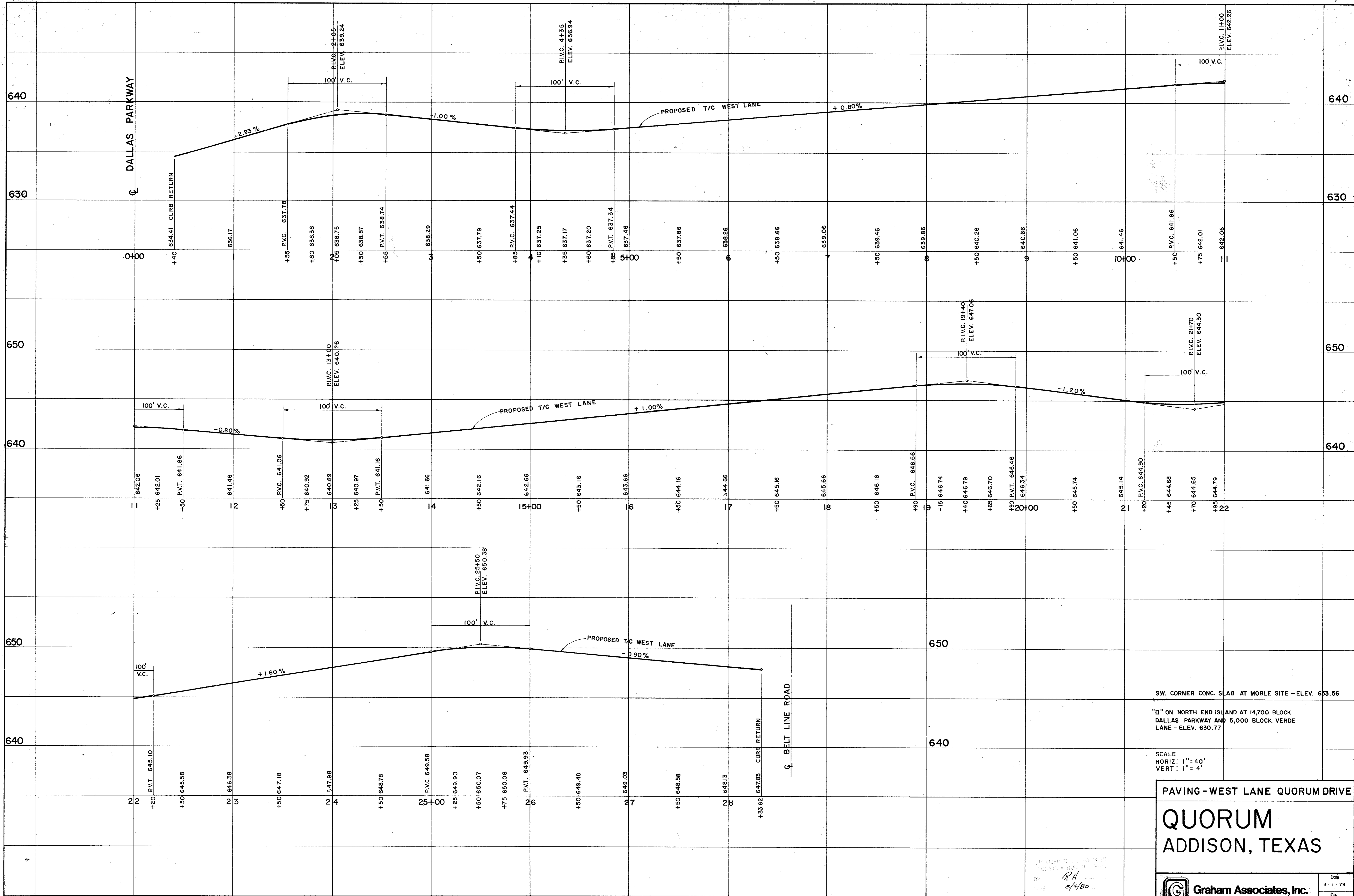
PAVING-EAST LANE-QUORUM DRIVE
QUORUM
 ADDISON, TEXAS

Graham Associates, Inc.
 CONSULTING ENGINEERS & PLANNERS

Drawn By: G.A.L. Sheet 6 Of 22

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

RH
2/2/80



S.W. CORNER CONC. SLAB AT MOBLE SITE - ELEV. 653.56

"d" ON NORTH END ISLAND AT 14,700 BLOCK DALLAS PARKWAY AND 5,000 BLOCK VERDE LANE - ELEV. 630.77

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

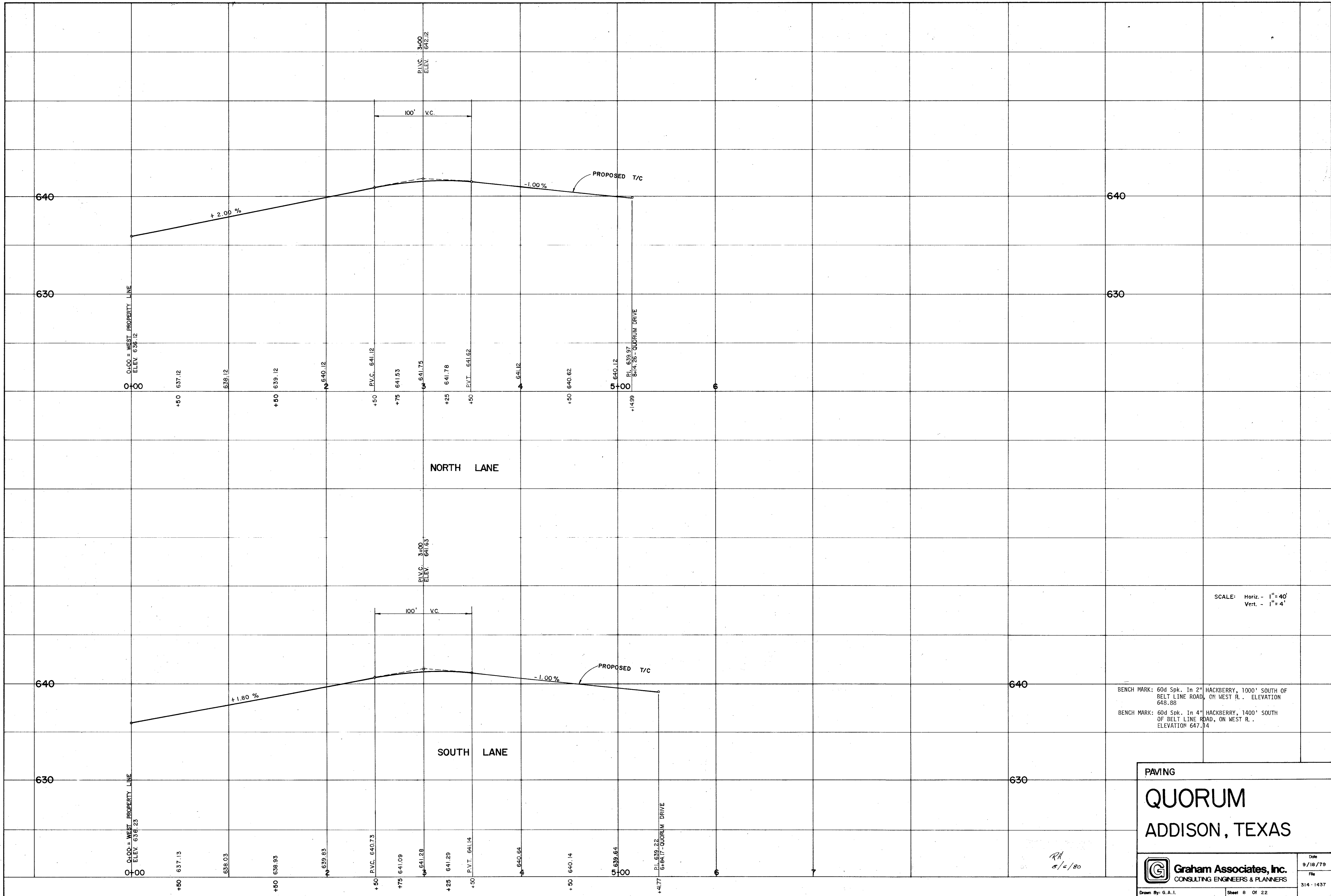
PAVING - WEST LANE QUORUM DRIVE

QUORUM ADDISON, TEXAS

Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

Drawn By: G.A.I. Sheet 7 Of 22

Date: 3-1-79
File: 314-1437



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

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

PAVING

QUORUM

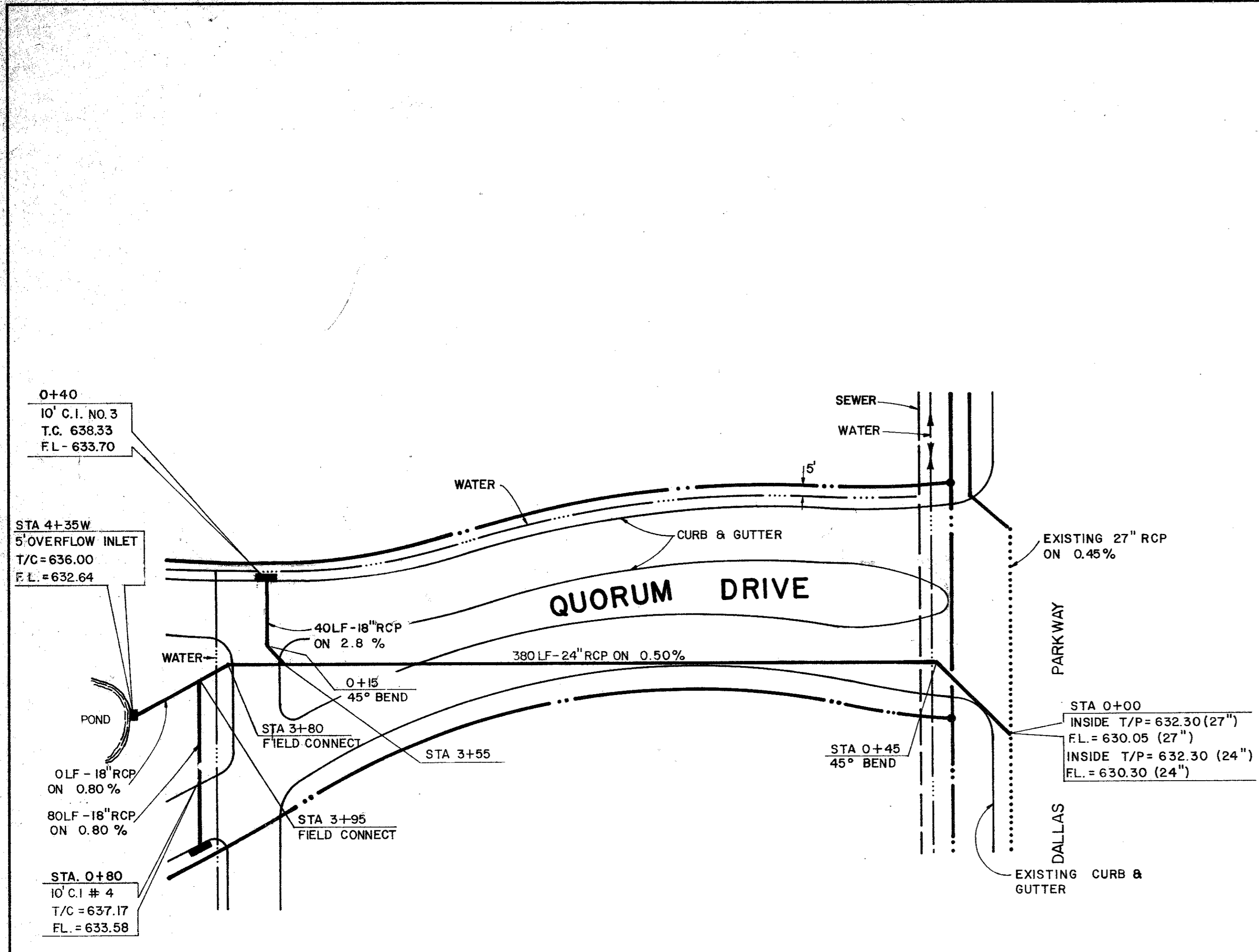
ADDISON, TEXAS

RH
6/6/80

Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

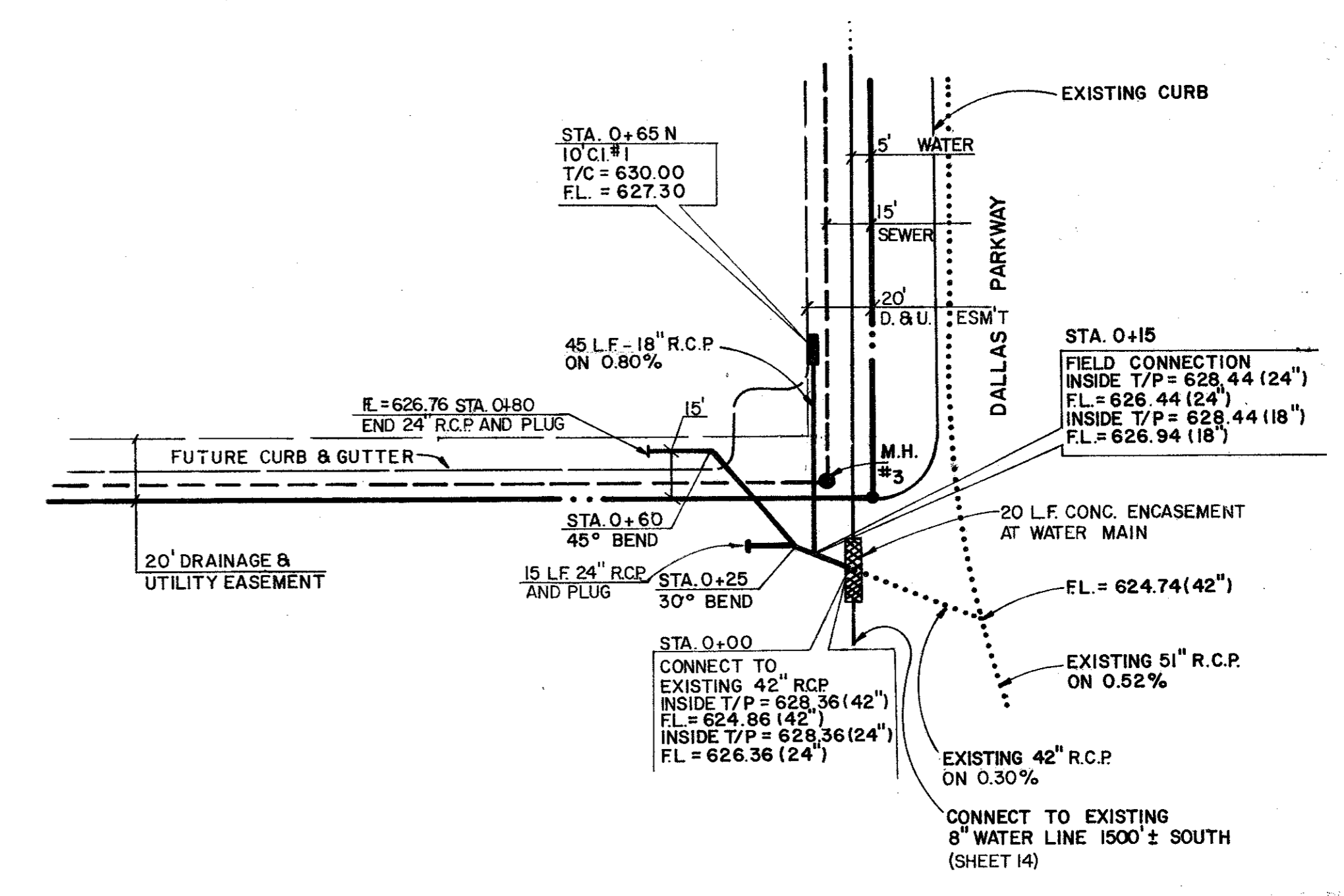
Drawn By: G.A.I. Sheet 8 Of 22

Date	9/18/79
File	314-1437



LINE B PLAN

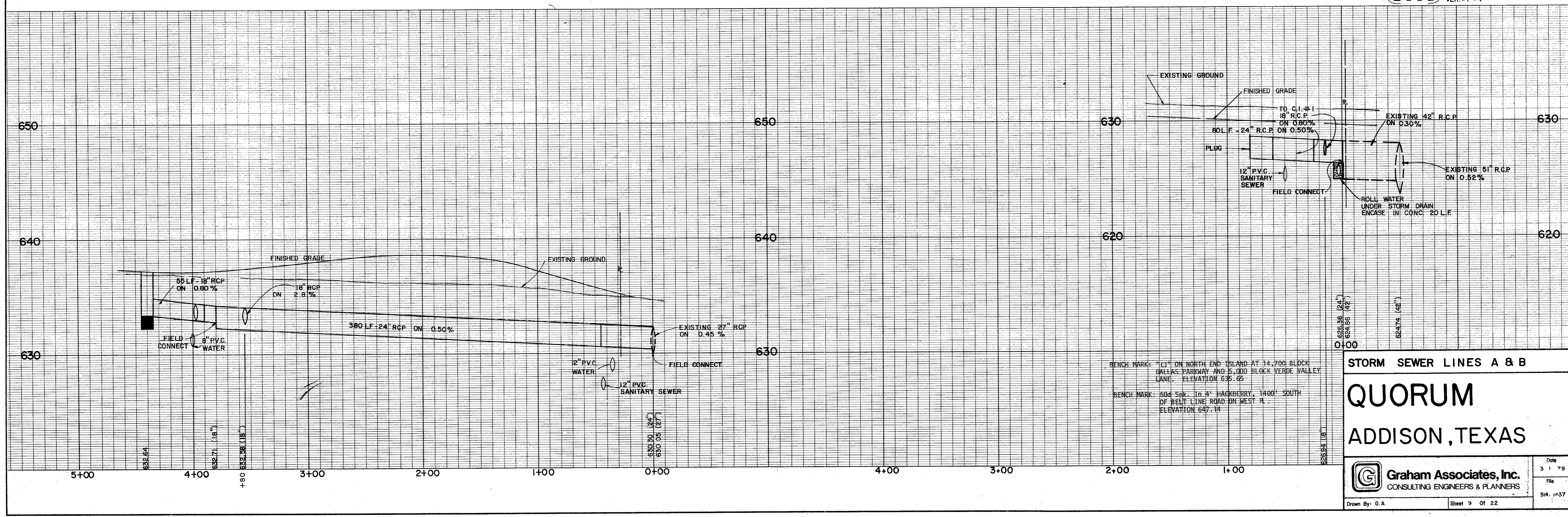
NOTE:
 ALL R.C.P. PIPE SHALL BE CLASS III ASTM-C-76
 ALL R.C.P. PIPE SHALL BE SET IN CONCRETE
 CRADLE BEDDING PER CITY OF DALLAS
 STANDARD DETAILS.



LINE A PLAN



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

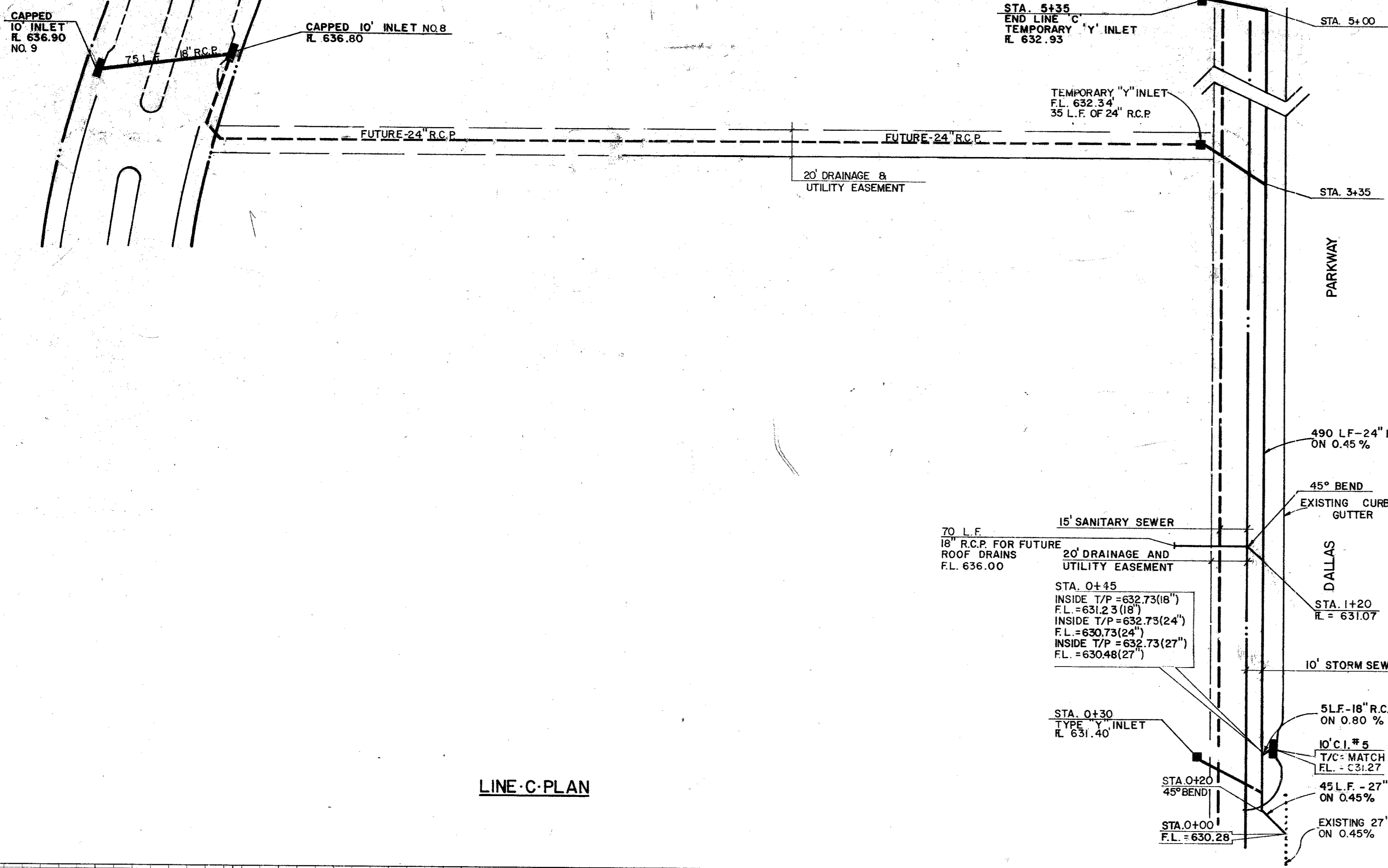


STORM SEWER LINES A & B

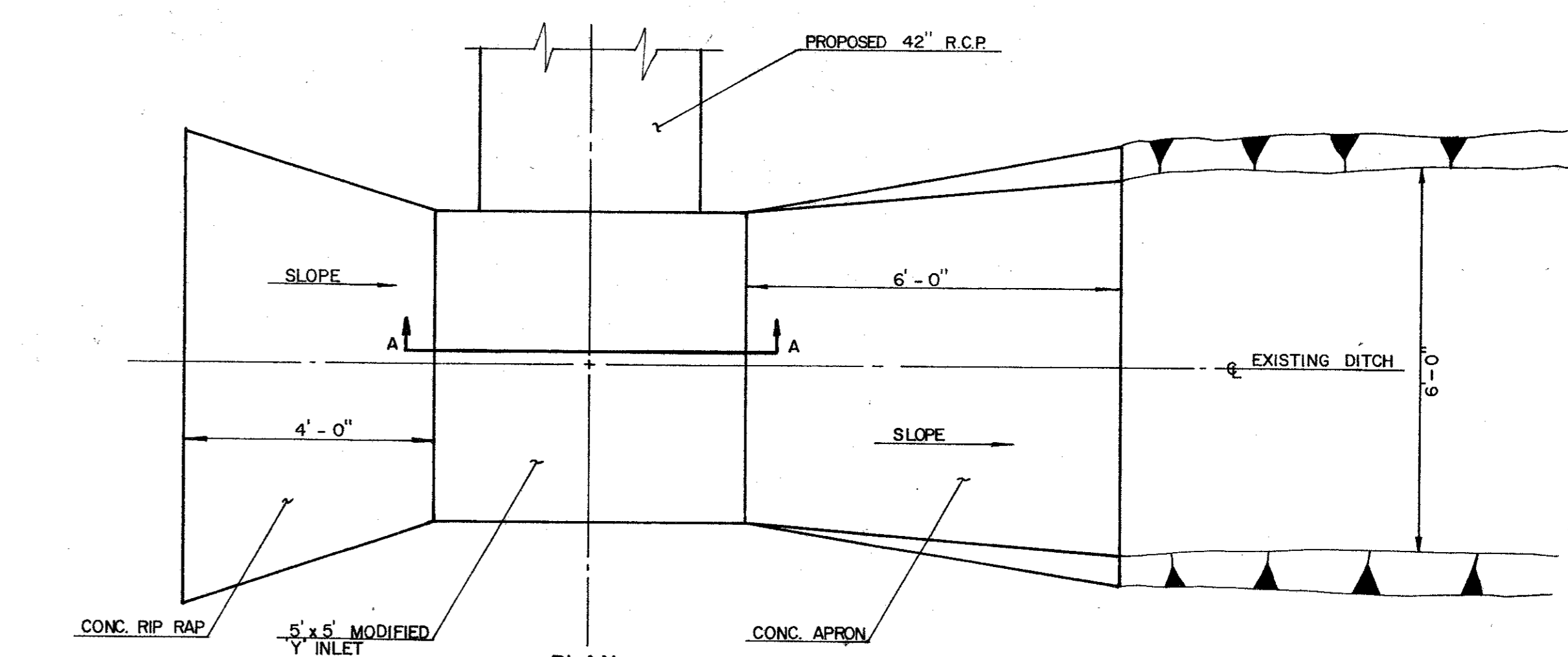
QUORUM
 ADDISON, TEXAS

Graham Associates, Inc.
 CONSULTING ENGINEERS & PLANNERS

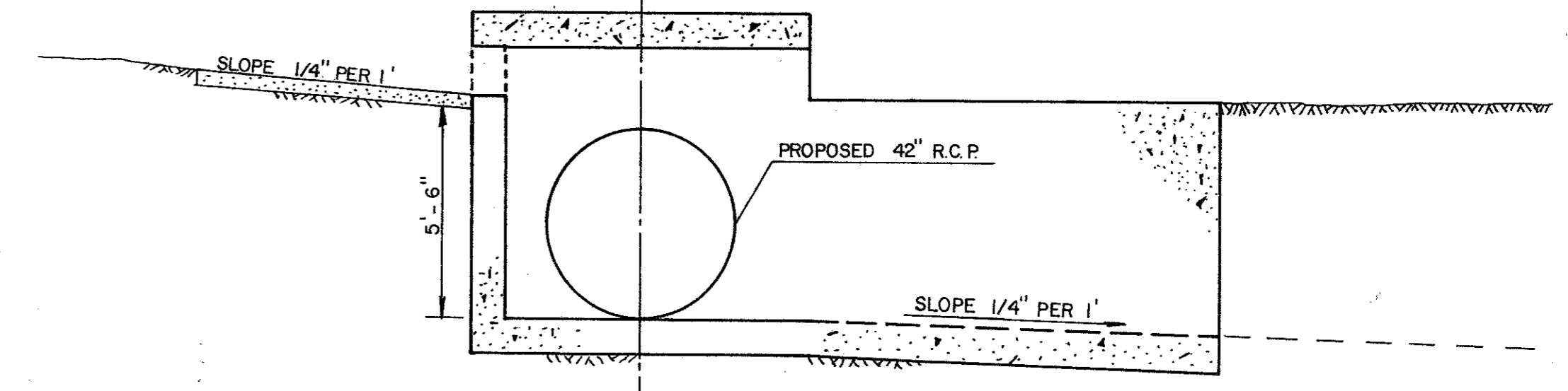
Date
 3 1 79
 File
 314.1437



LINE-C-PLAN



PLAN



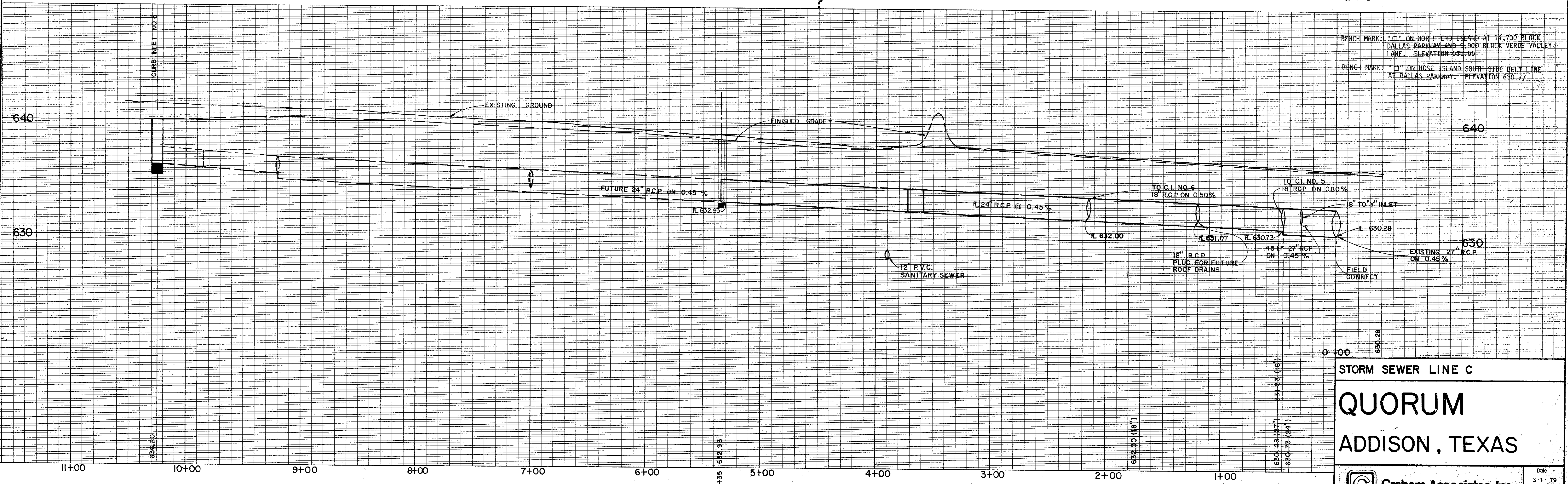
SECTION A-A

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



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

RA
6/6/00



BENCH MARK: "D" ON NORTH END ISLAND AT 14,700 BLOCK DALLAS PARKWAY AND 5,000 BLOCK VERDE VALLEY LANE. ELEVATION 635.65
BENCH MARK: "C" ON NOSE ISLAND SOUTH SIDE BELT LINE AT DALLAS PARKWAY. ELEVATION 630.77

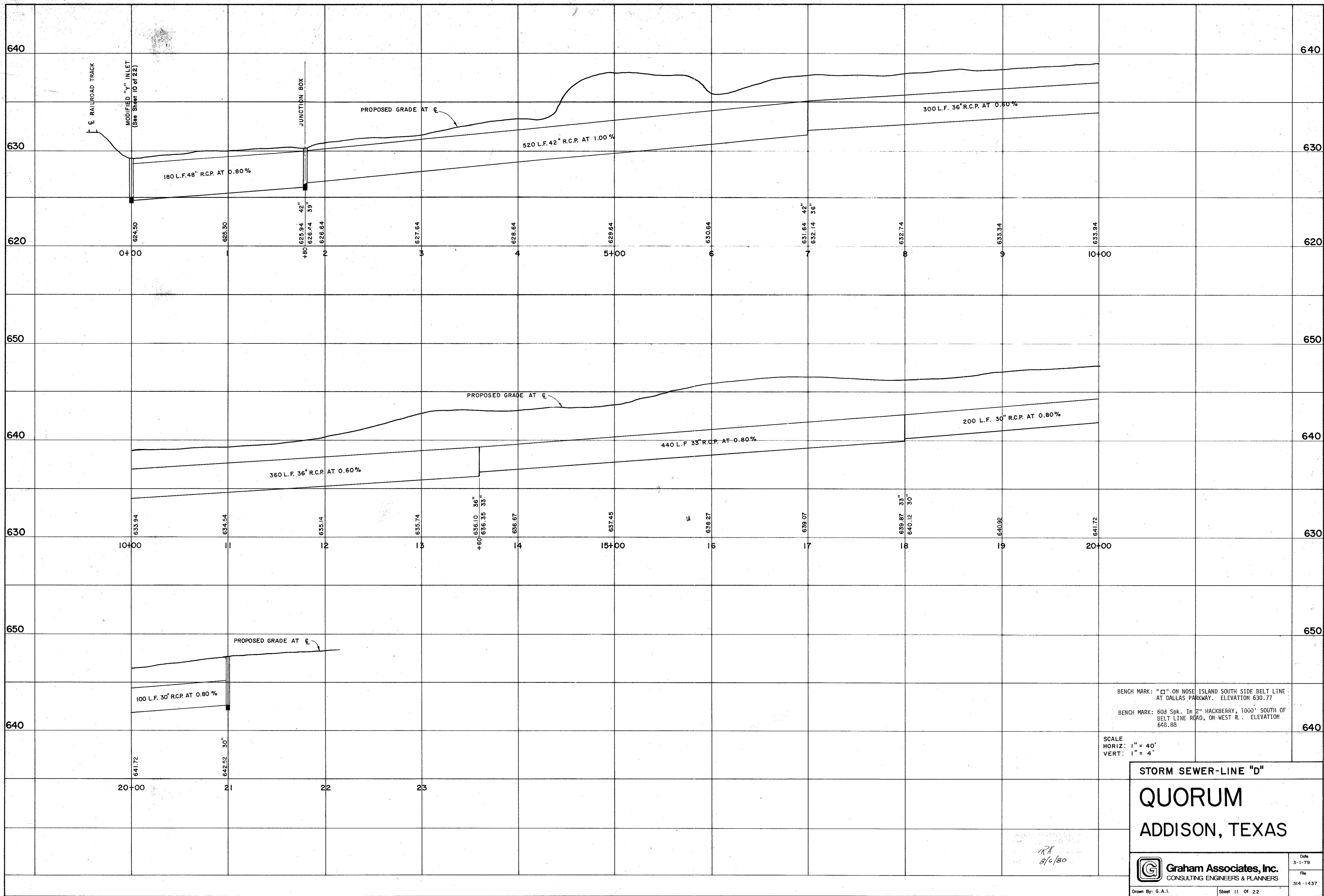
STORM SEWER LINE C

QUORUM
ADDISON, TEXAS

Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

Date
3-1-79
File
314-1437

Drawn By: G.A. Sheet 10 of 10



BENCH MARK: "□" ON NOSE ISLAND SOUTH SIDE BELT LINE AT DALLAS PARKWAY. ELEVATION 630.77
 BENCH MARK: 604 Spk. In 2" HACKBERRY, 1000' SOUTH OF BELT LINE ROAD, ON WEST R. ELEVATION 648.88

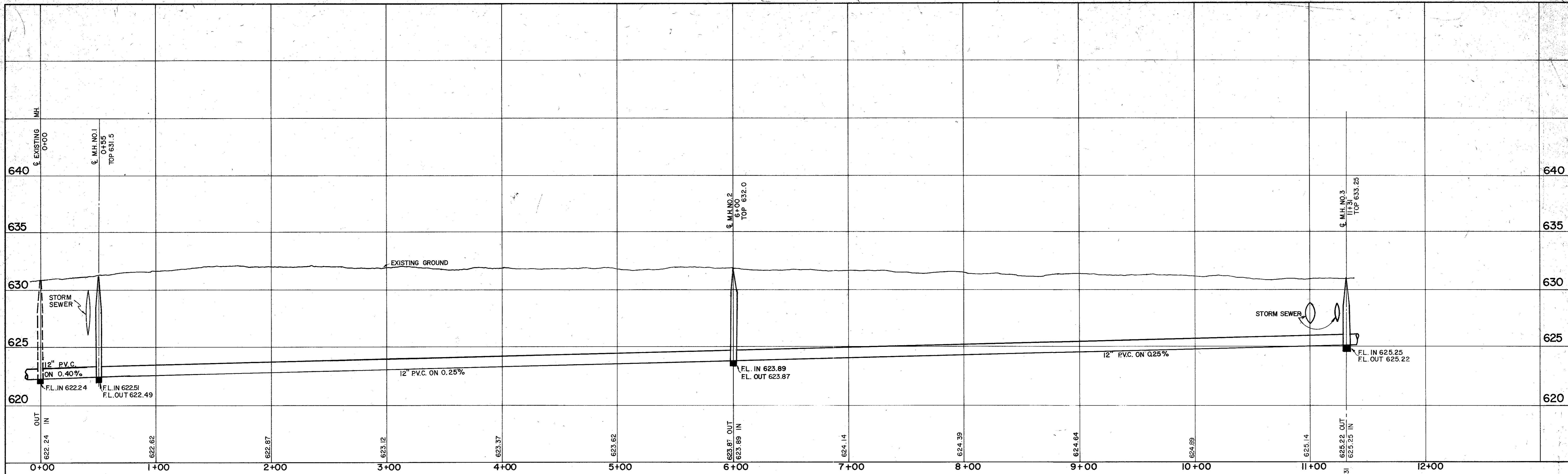
SCALE
 HORIZ: 1" = 40'
 VERT: 1" = 4'

STORM SEWER-LINE "D"
QUORUM
ADDISON, TEXAS

Graham Associates, Inc.
 CONSULTING ENGINEERS & PLANNERS

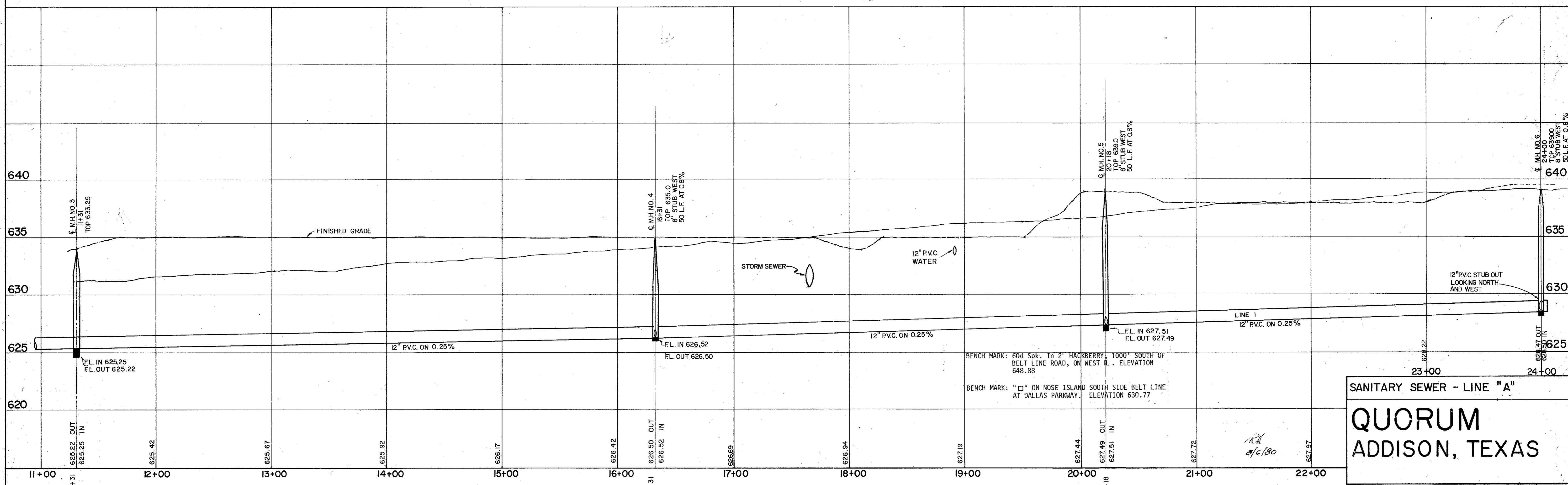
Date: 3-1-79
 File: 314-1437

RA
8/6/80



LINE "A" PROFILE

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



LINE "A" PROFILE

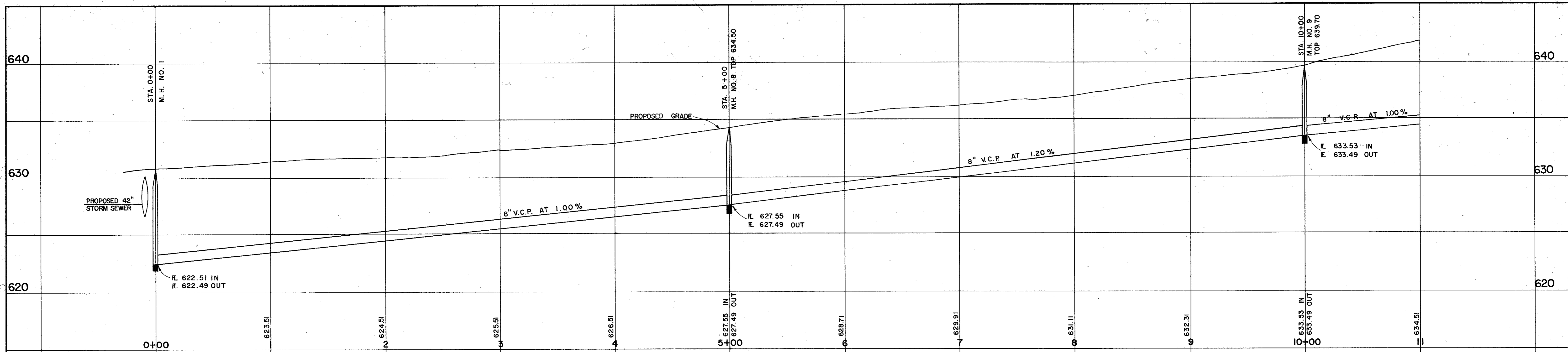
BENCH MARK: 60d Spk. In 2" HACKBERRY, 1000' SOUTH OF
BELT LINE ROAD, ON WEST R. ELEVATION
648.88
BENCH MARK: "□" ON NOSE ISLAND SOUTH SIDE BELT LINE
AT DALLAS PARKWAY. ELEVATION 630.77

SANITARY SEWER - LINE "A"
QUORUM
ADDISON, TEXAS

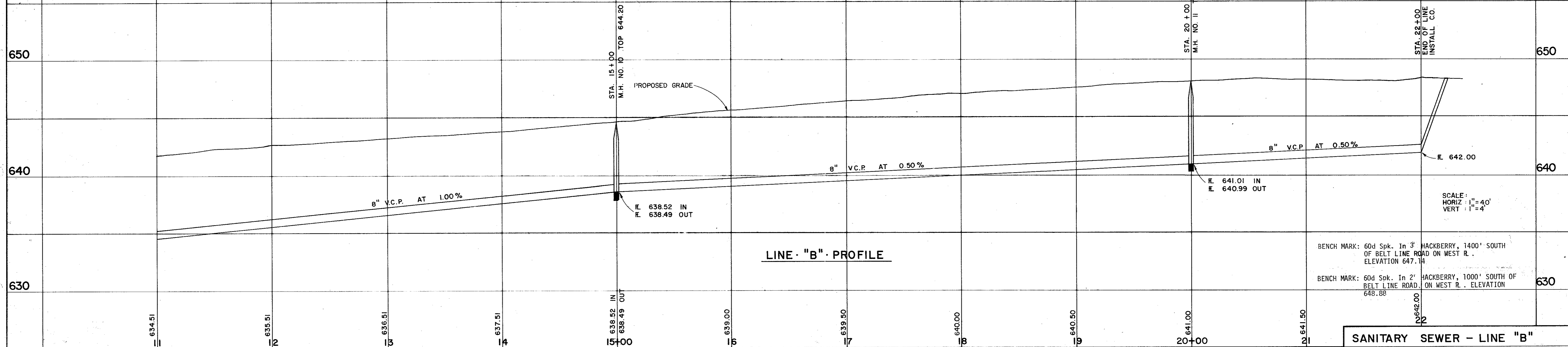
Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

Drawn By: G.A.I. Sheet 12 Of 22

Date: 3-1-79
File: 514 1437



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

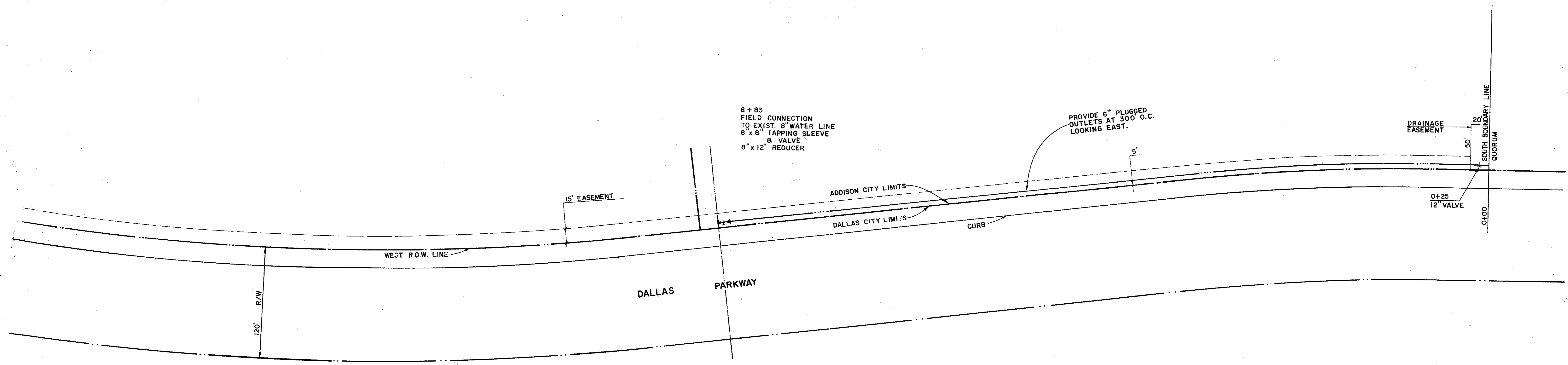
SCALE:
 HORIZ : 1" = 40'
 VERT : 1" = 4'

SANITARY SEWER - LINE "B"
QUORUM
 ADDISON, TEXAS

DATE: 8/6/80
 BY: RH


Graham Associates, Inc.
 CONSULTING ENGINEERS & PLANNERS

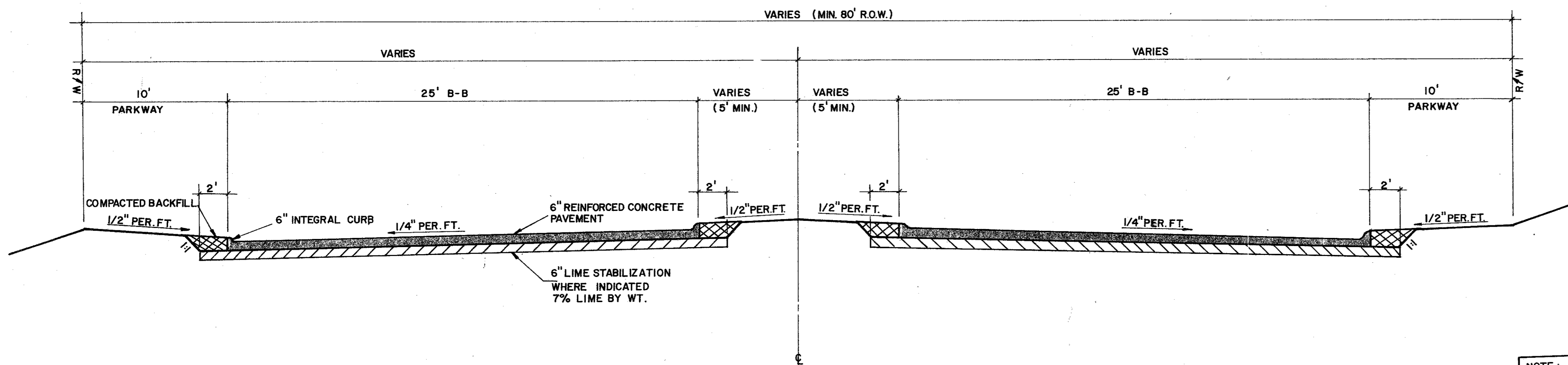
Date: 3-1-79
 File: 314-1437



SCALE: 1" = 50'

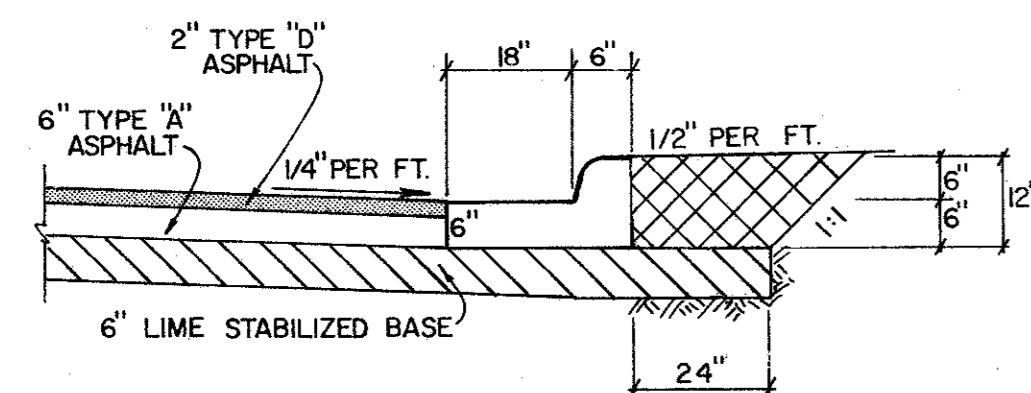
RH
5/6/80

WATER MAIN (OFF SITE)	
QUORUM	
ADDISON, TEXAS	
 Graham Associates, Inc. CONSULTING ENGINEERS & PLANNERS	Date 5-1-79
	File 314-1437
Drawn By: G.A.I.	Sheet 14 Of 22

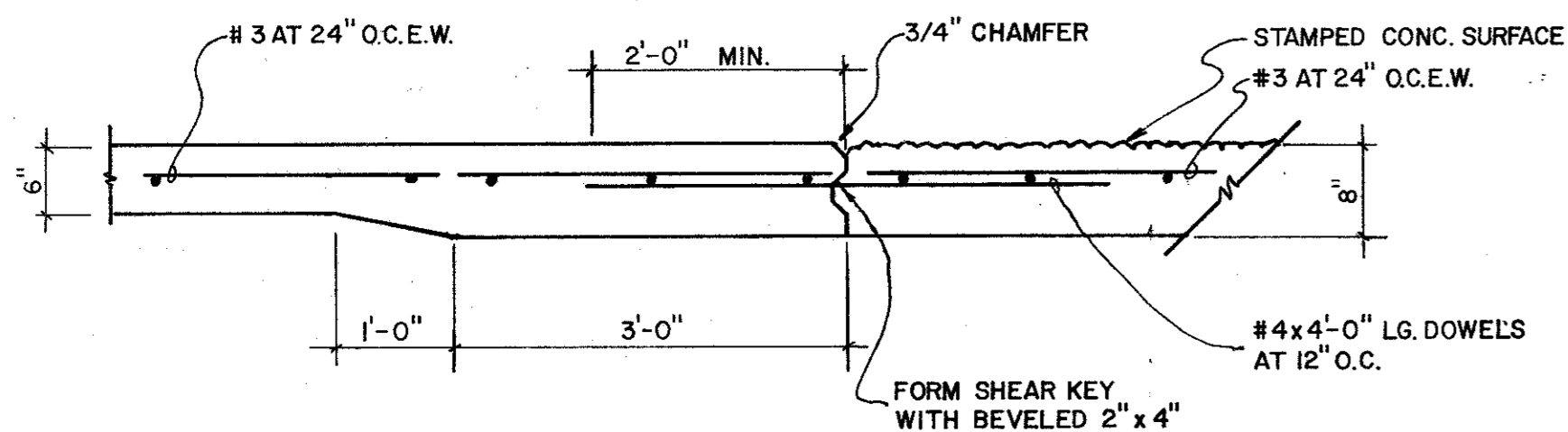


TYPICAL PAVEMENT & GRADING SECTION - SECTION X-X

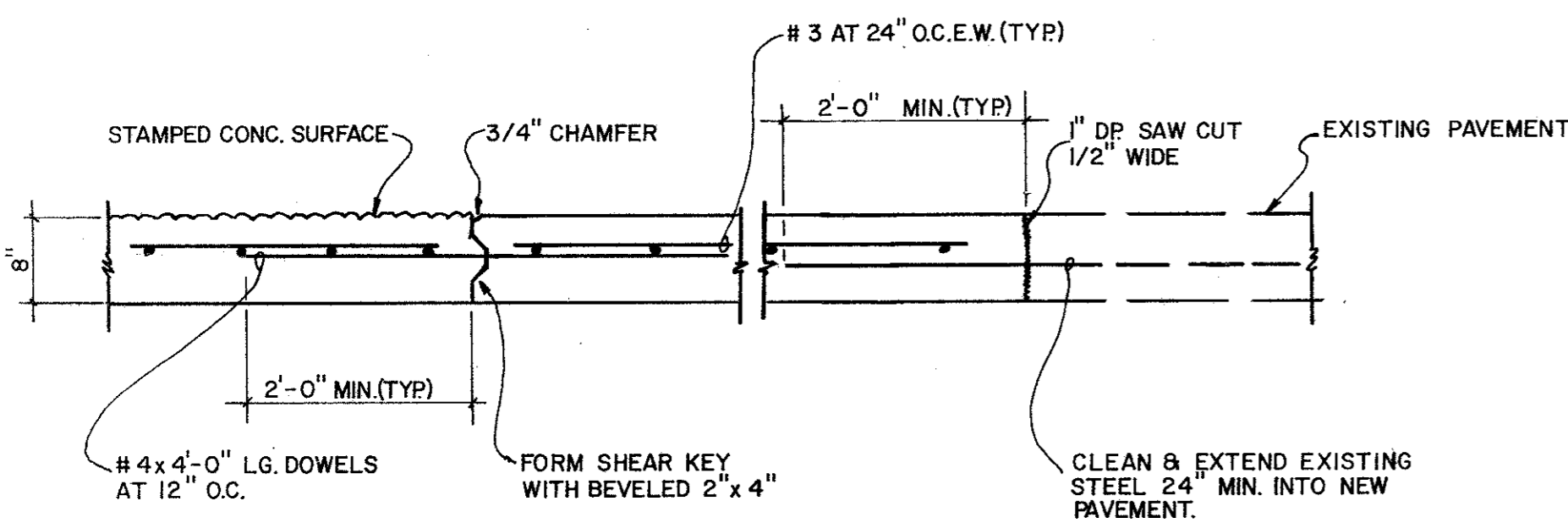
NOTE: CONCRETE SHALL BE 3,000 P.S.I. AT 28 DAYS. LIME SHALL BE SLURRY MIXED PRIOR TO APPLICATION. REINFORCING SHALL BE NO. 3 AT 24" O.C.E.W.



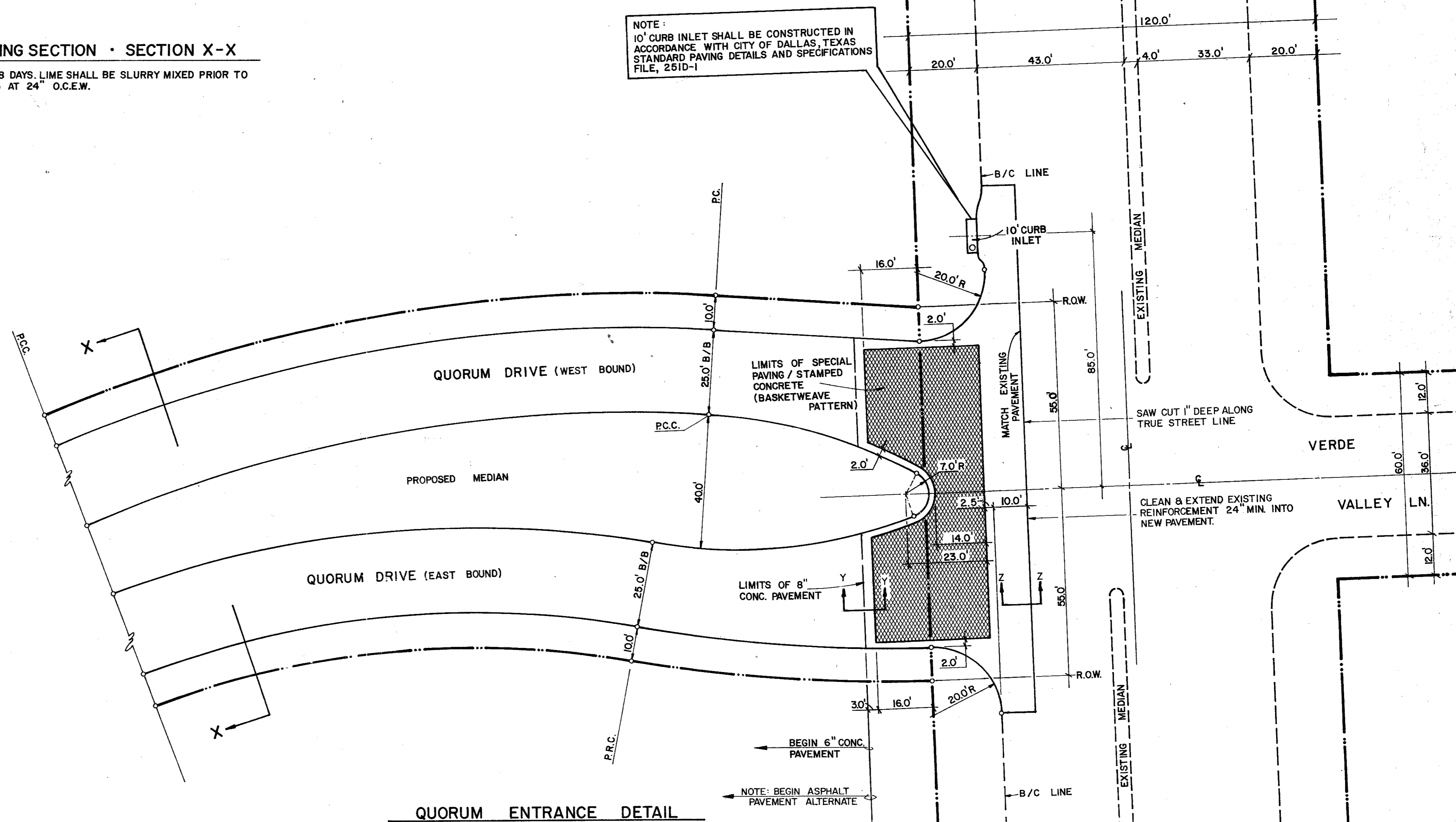
ALTERNATE ASPHALT PAVEMENT SECTION



SECTION Y-Y

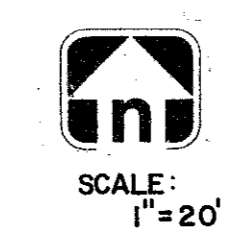


SECTION Z-Z



QUORUM ENTRANCE DETAIL

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



REVISIONS TO CONTRACT DOCUMENTS:
 DATE: 8/6/80

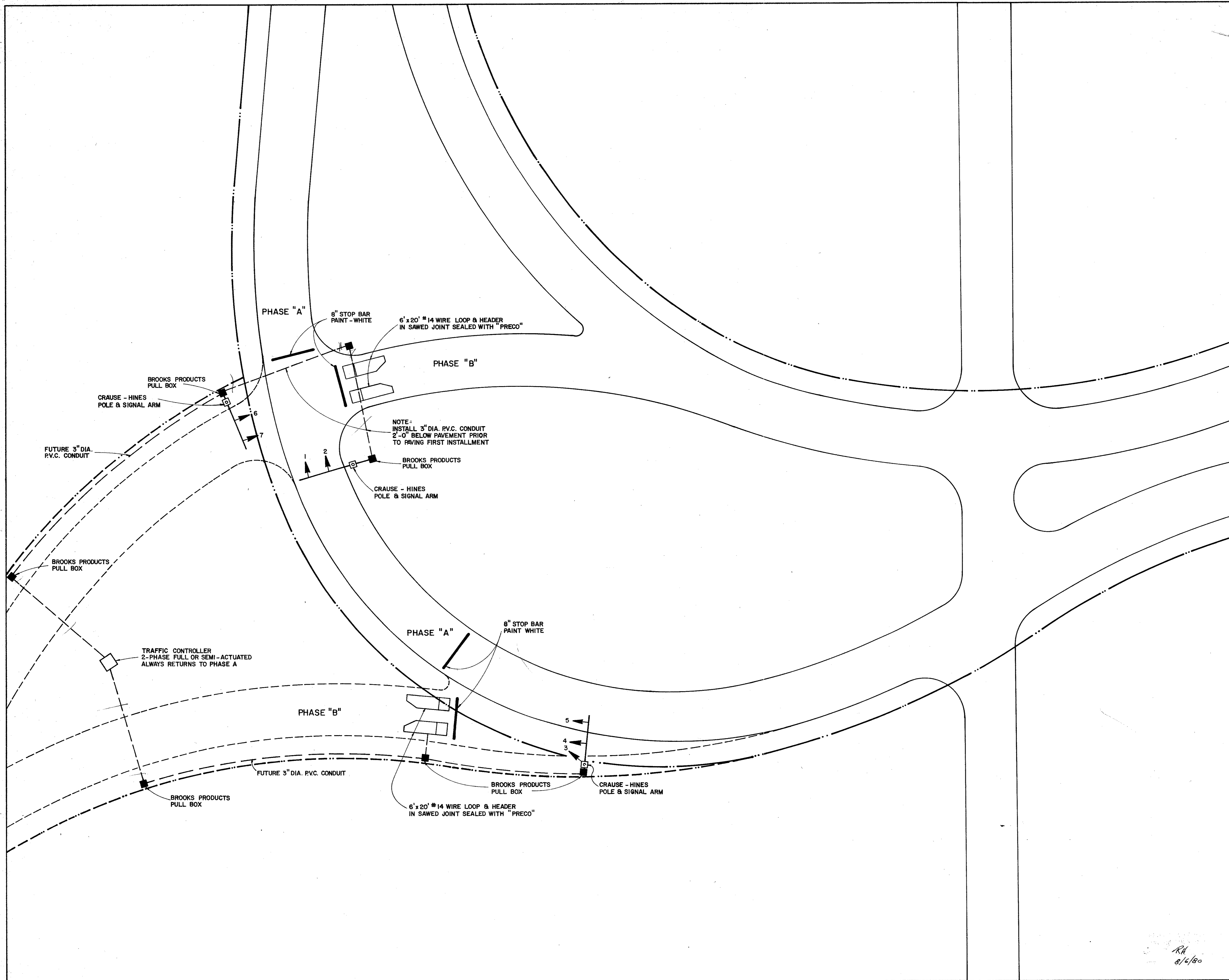
PAVING DETAILS

QUORUM

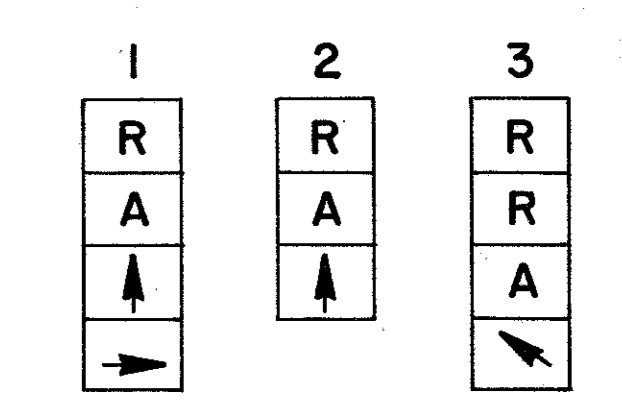
ADDISON, TEXAS

Graham Associates, Inc.
 CONSULTING ENGINEERS & PLANNERS

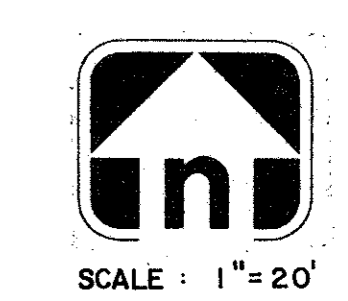
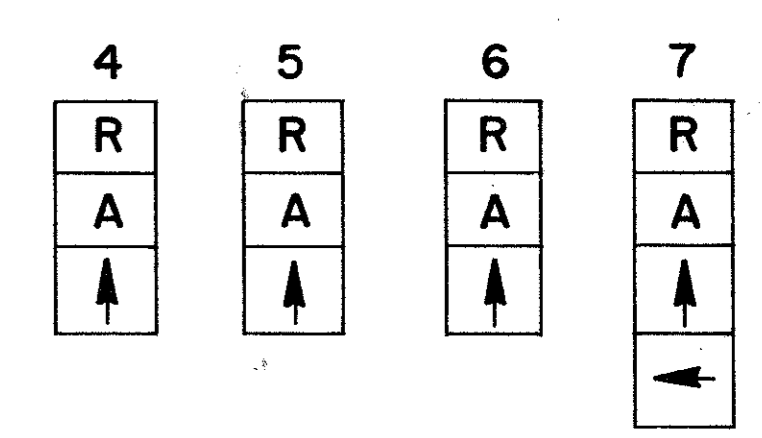
Date: 3-1-79
 File: 314-1437
 Sheet 15 of 22



PHASE "A"



PHASE "B"



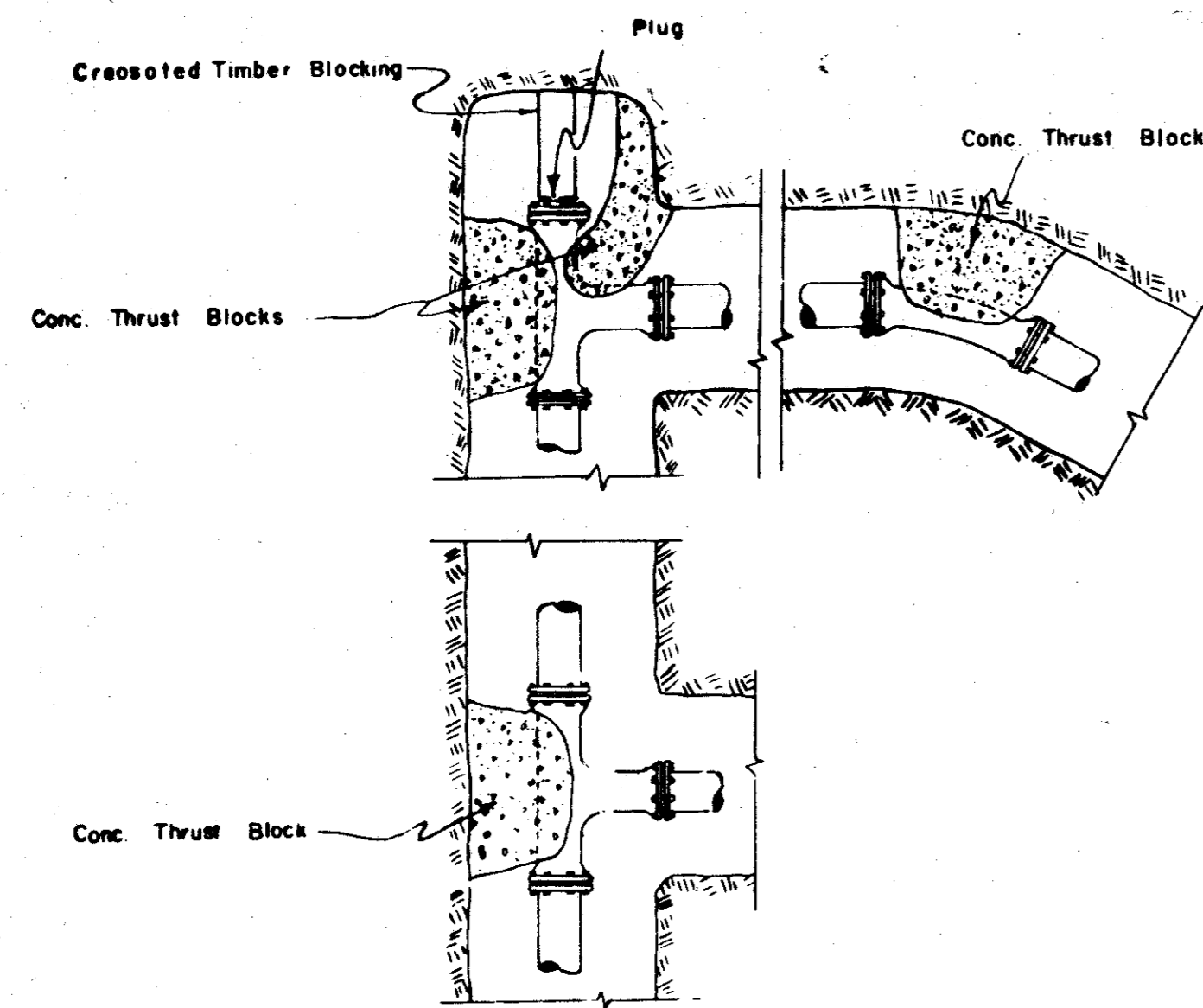
SIGNALIZATION PLAN

QUORUM
ADDISON, TEXAS

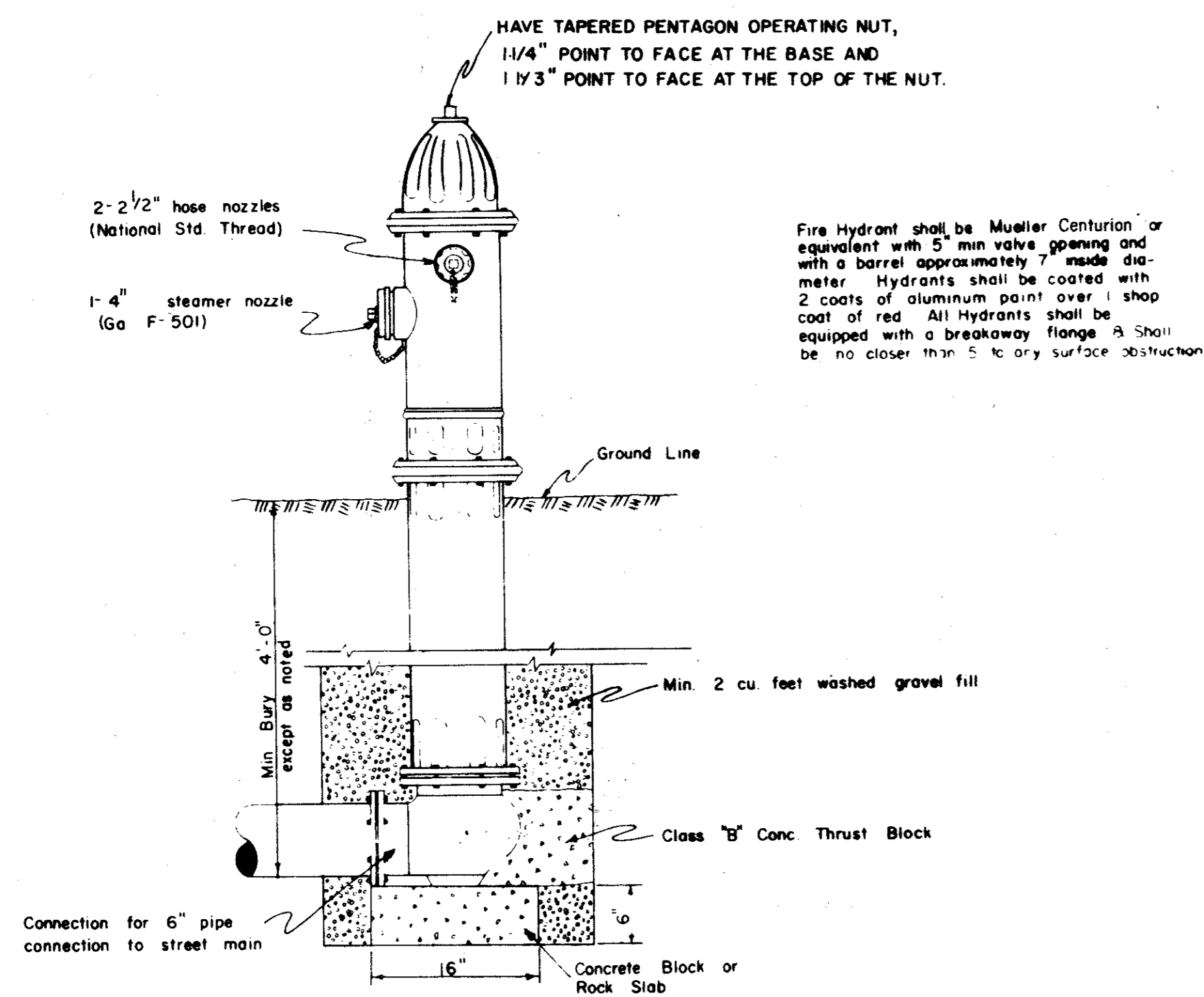
Graham Associates, Inc.
CONSULTING ENGINEERS & PLANNERS

Date: 5-1-79
File: 318-1437

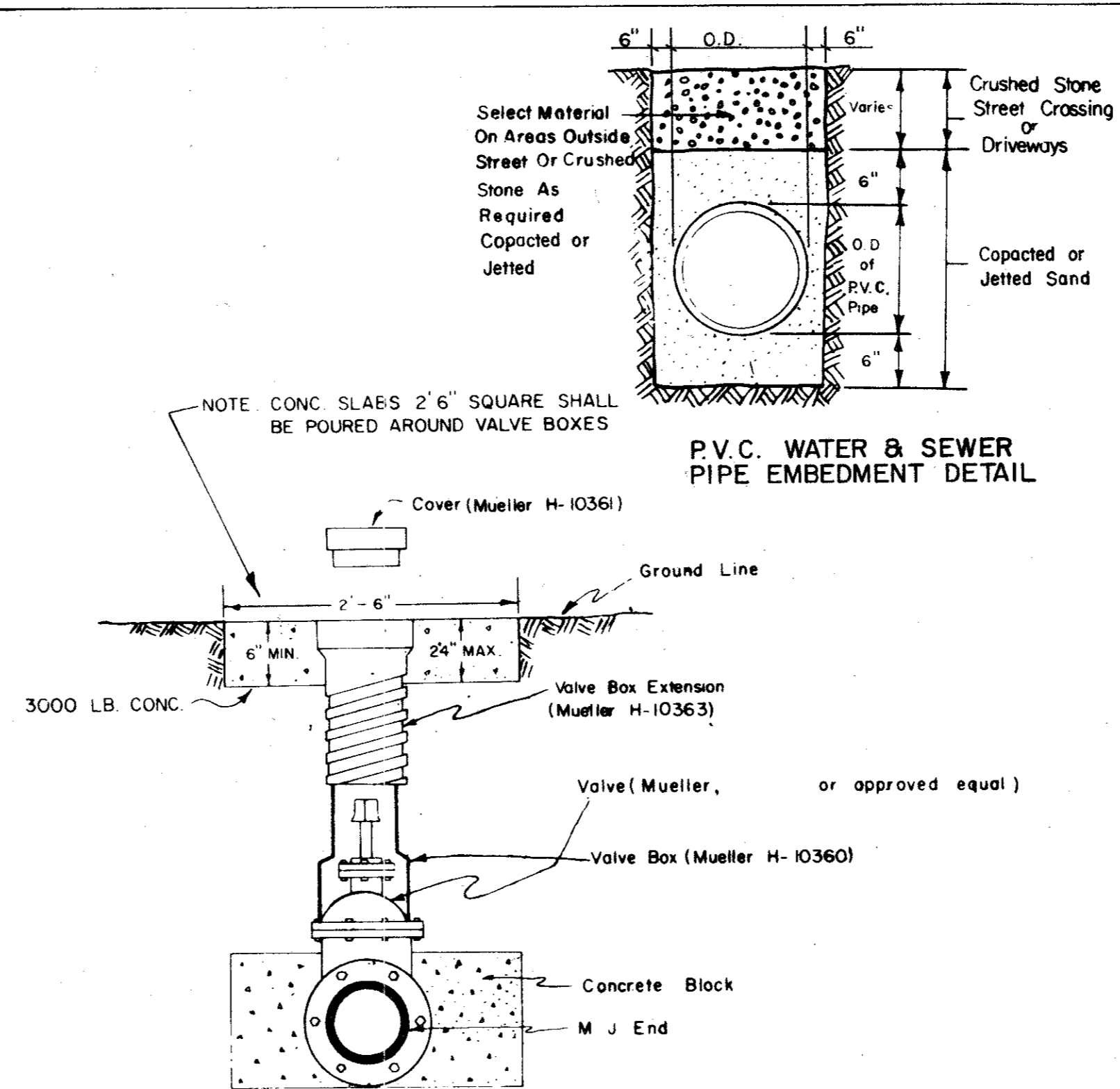
RH
8/6/80




TYPICAL THRUST BLOCK DETAILS

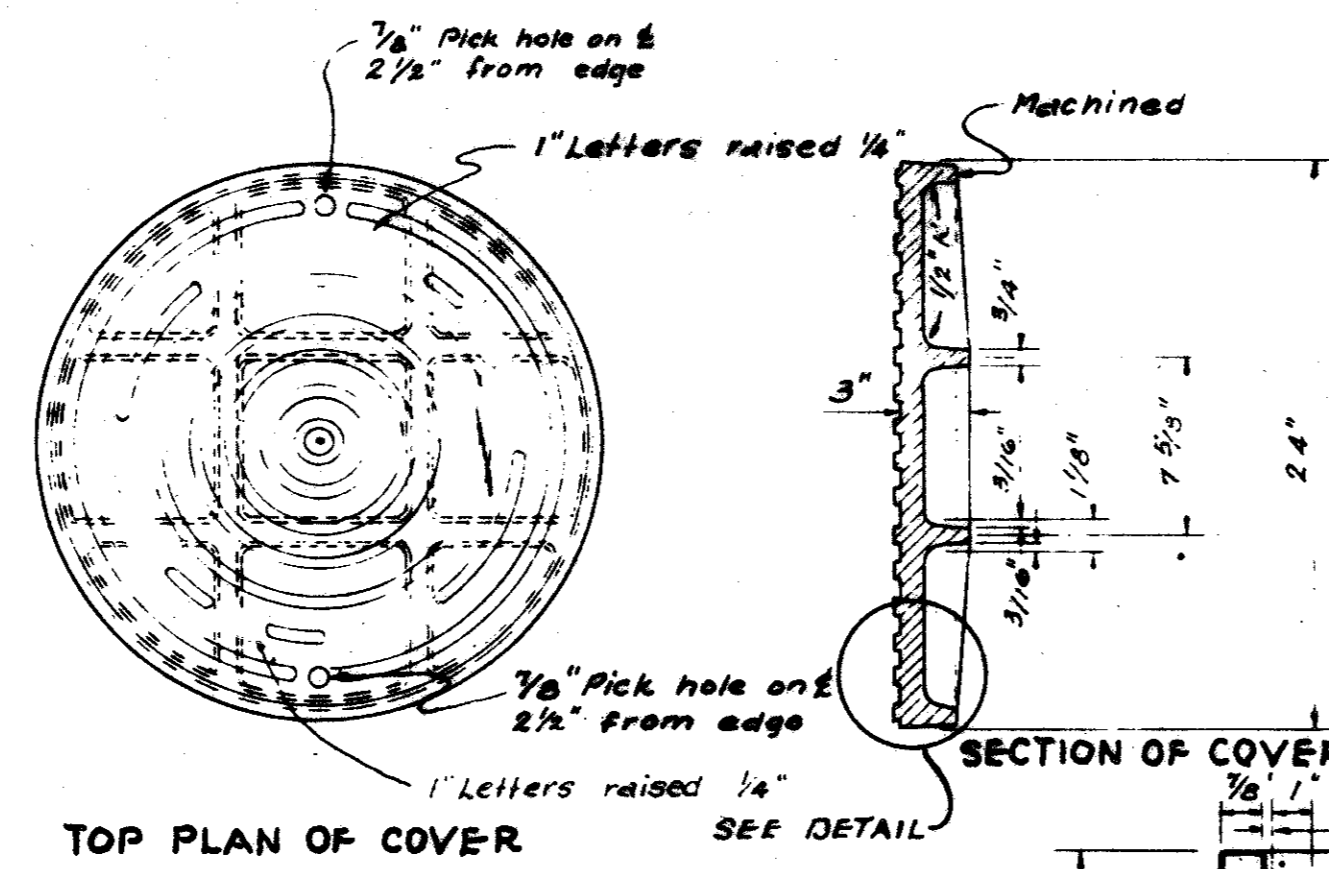
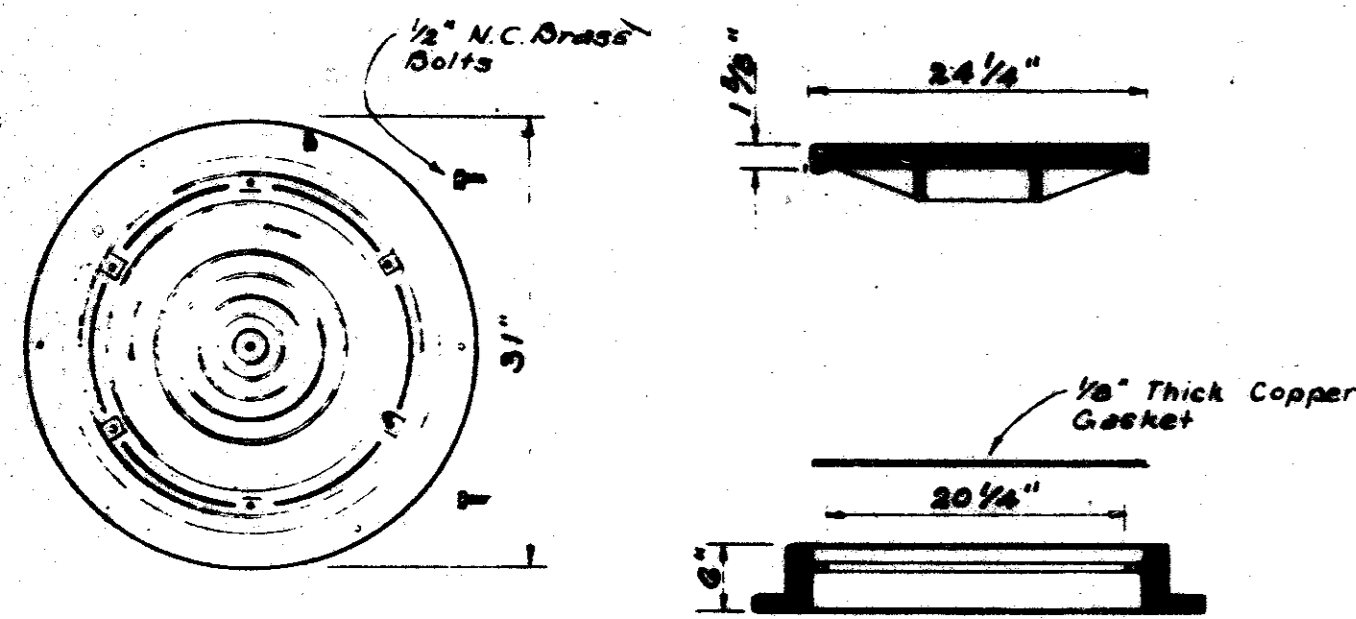


TYPICAL FIRE HYDRANT INSTALLATION

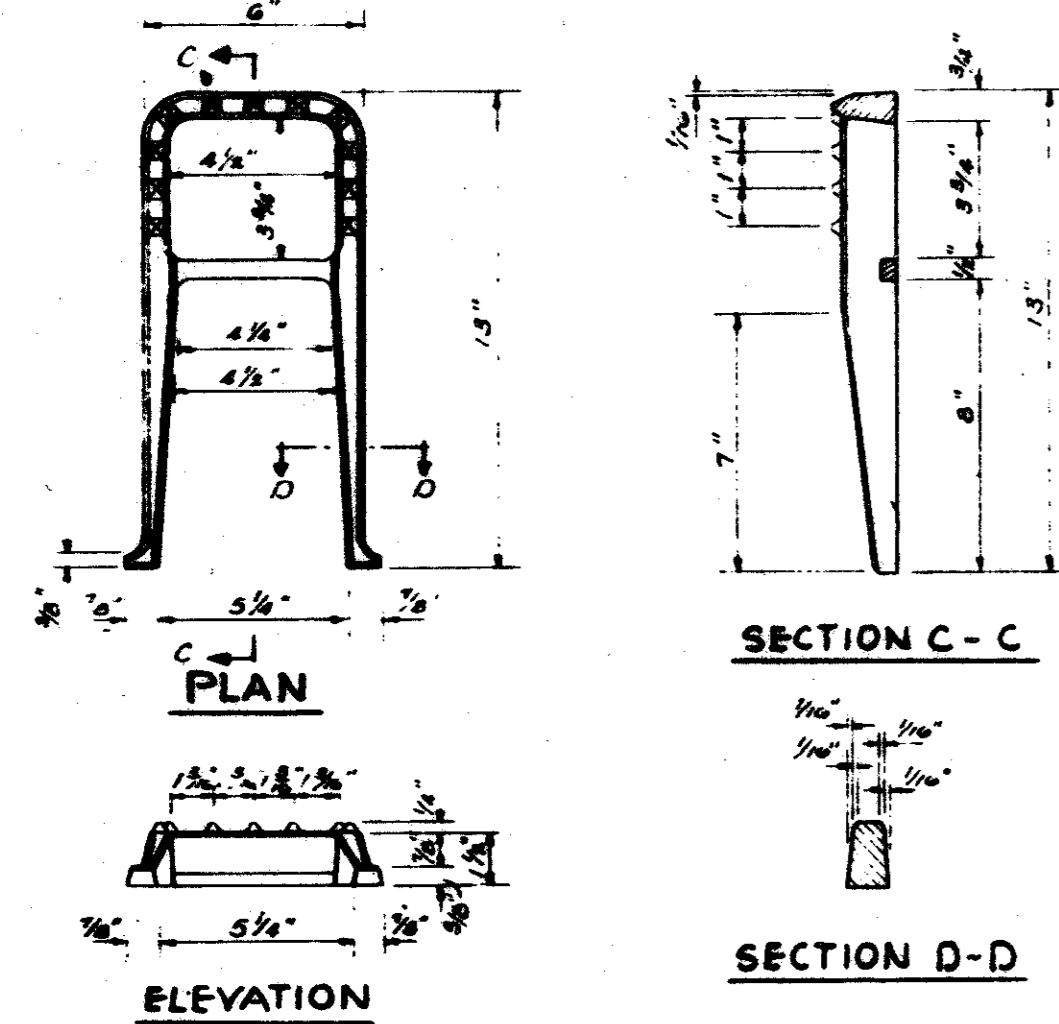


TYPICAL VALVE SETTING & VALVE BOX

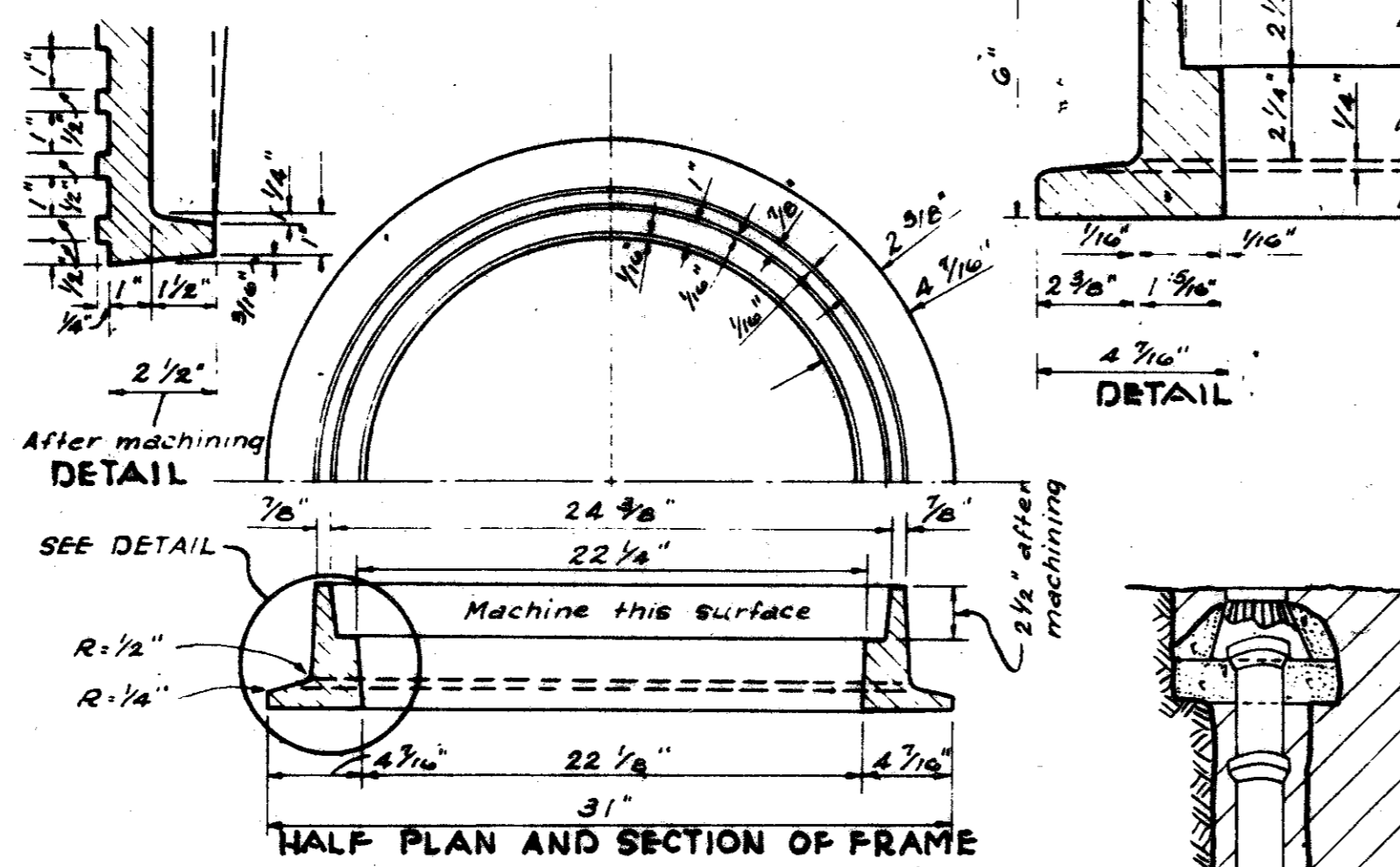
WATER MAIN APPURTENANCES					
DETAIL OF WATER MAIN INSTALLATIONS					
 Graham Associates, Inc. CONSULTING ENGINEERS & PLANNERS					
DESIGN	DRAWN	CHECK	DATE	SCALE	SHEET NO.
J. D. H.	B. J. M.	D. P.	3-1-79	NONE	17 OF 22



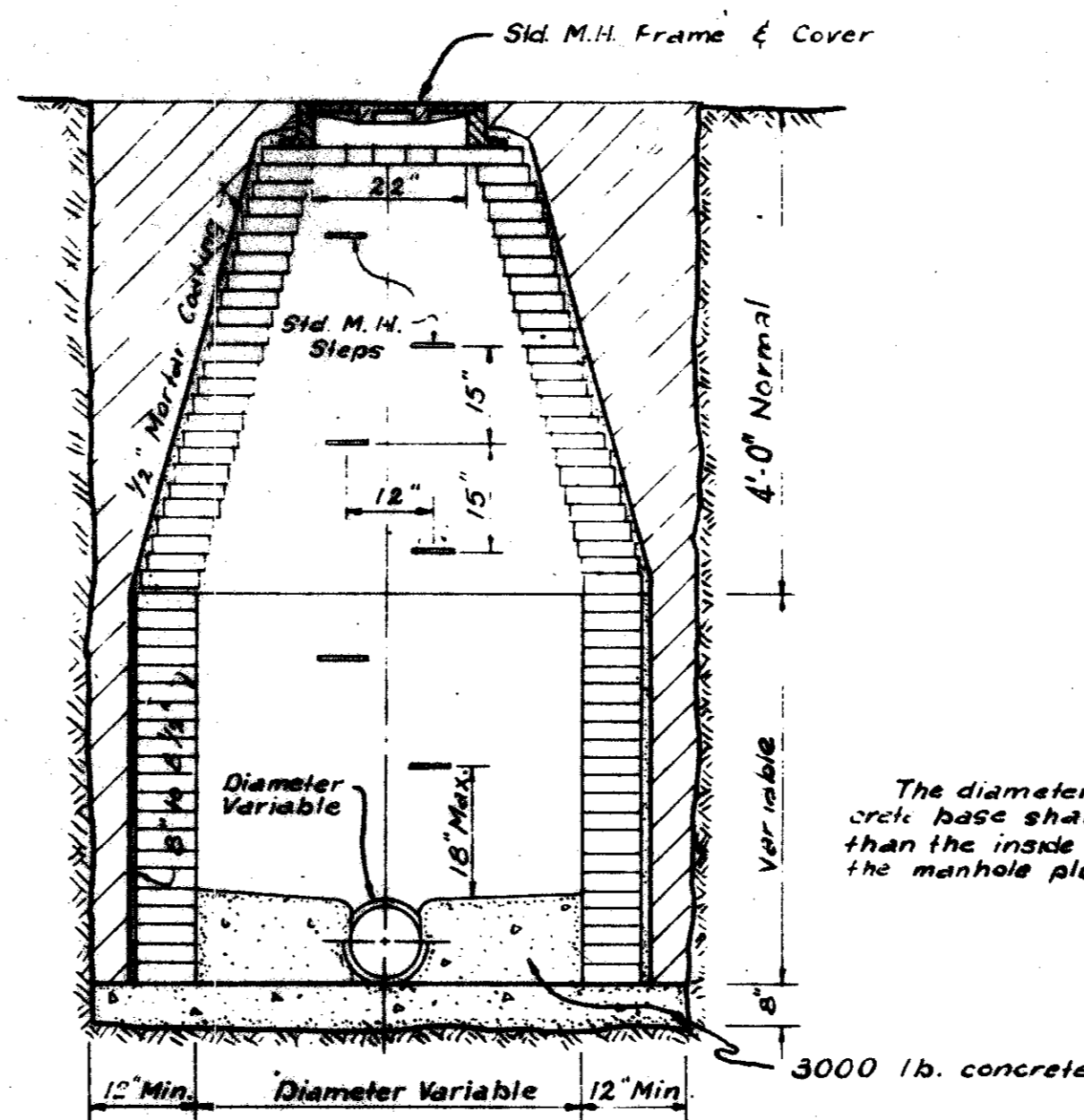
STANDARD WATER TIGHT - SOLID SEAL MANHOLE FRAME AND COVER
TO BE USED ON STANDARD MANHOLE
 As Manufactured by DALLAS FOUNDRY
 NO 975-2 or approved equal.
 Wgt 410 pounds.



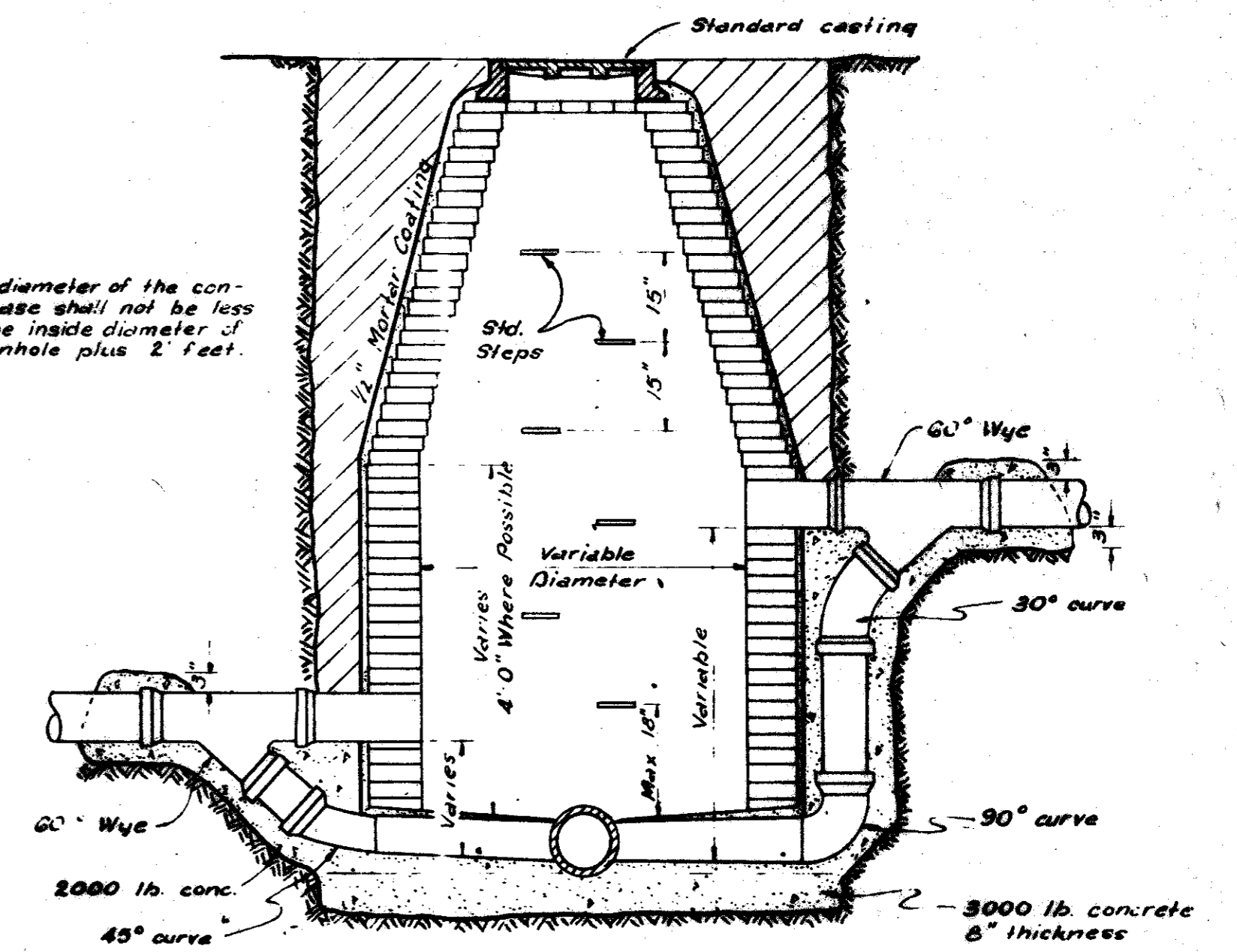
STANDARD C.I. MANHOLE STEP
 STORM SEWER & SANITARY SEWER



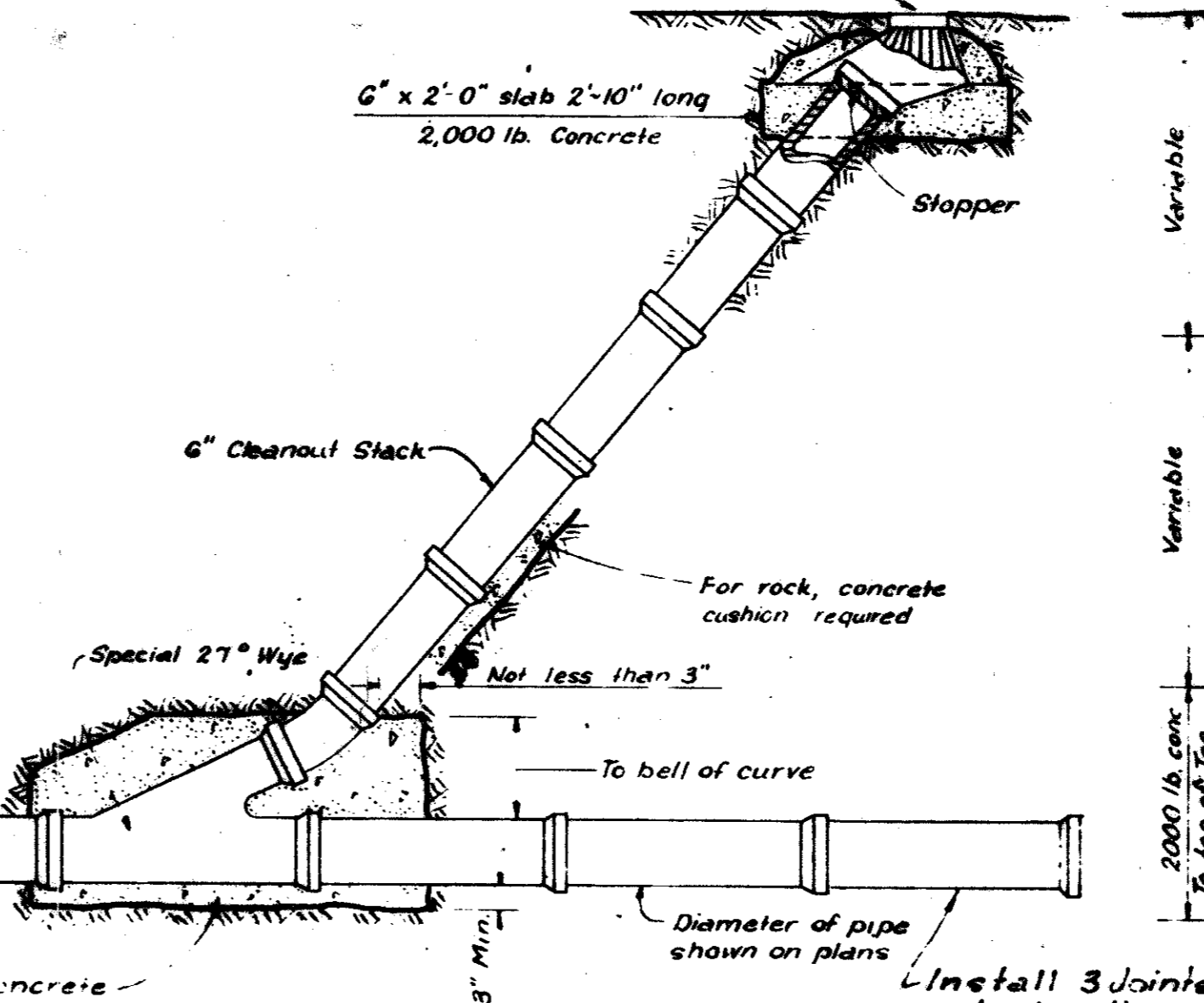
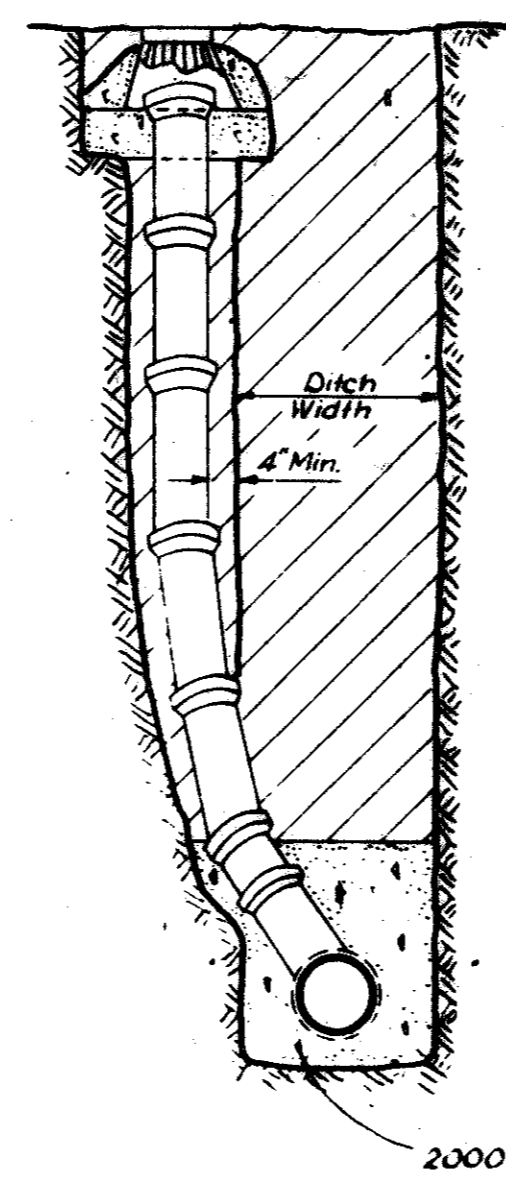
STANDARD C.I. MANHOLE FRAME & COVER
 As Manufactured by DALLAS FOUNDRY NO. 700-8 or
 approved equal. Wgt 400 pounds.



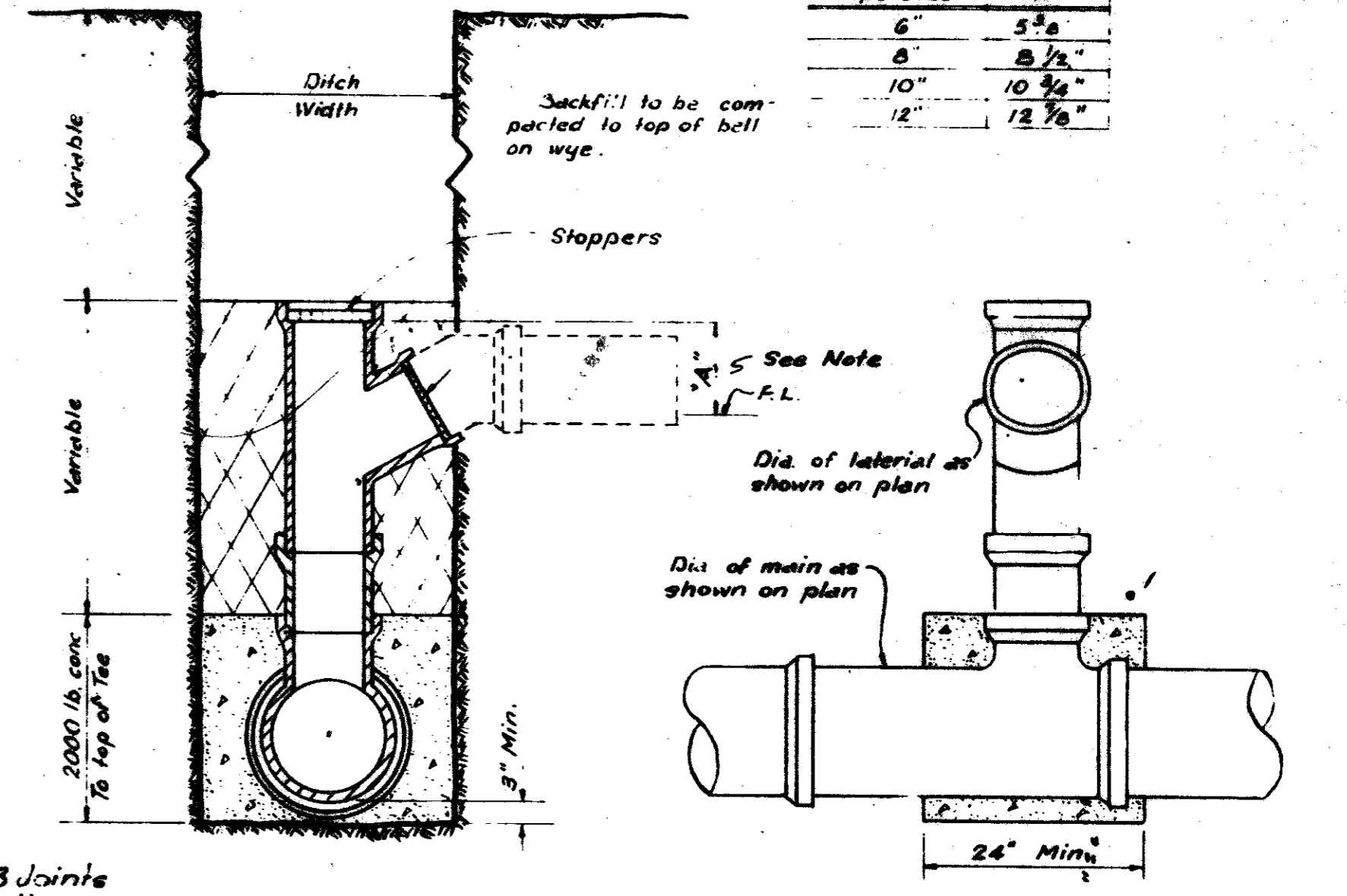
STANDARD MANHOLE



STANDARD DROP CONNECTION MANHOLE

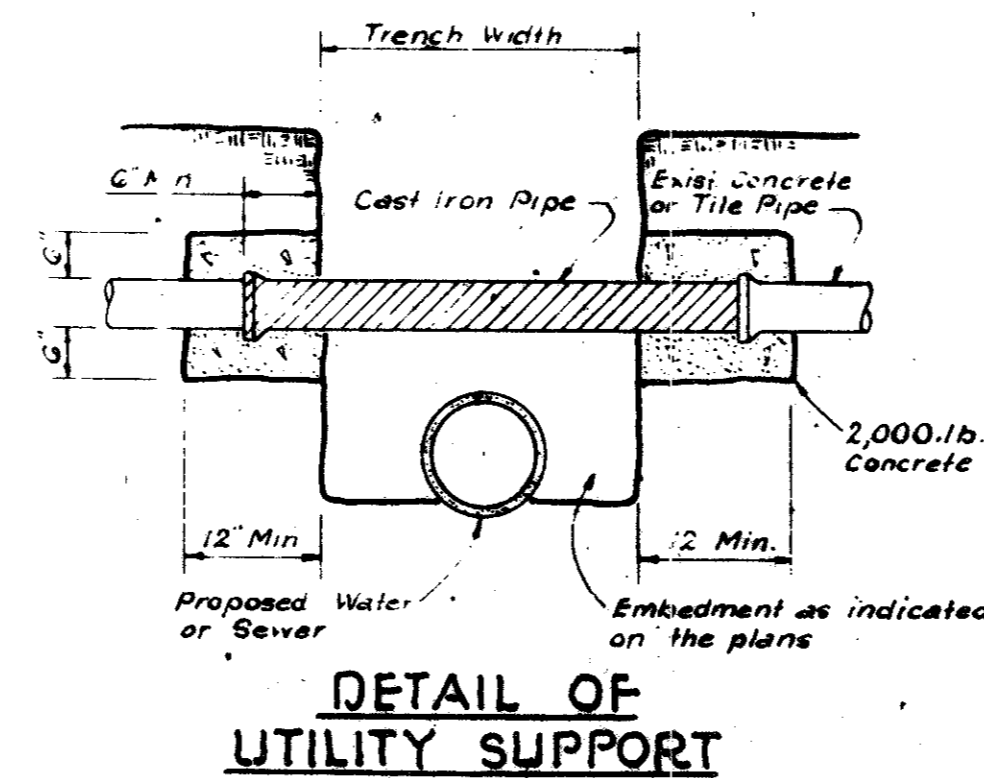


STANDARD CLEANOUT

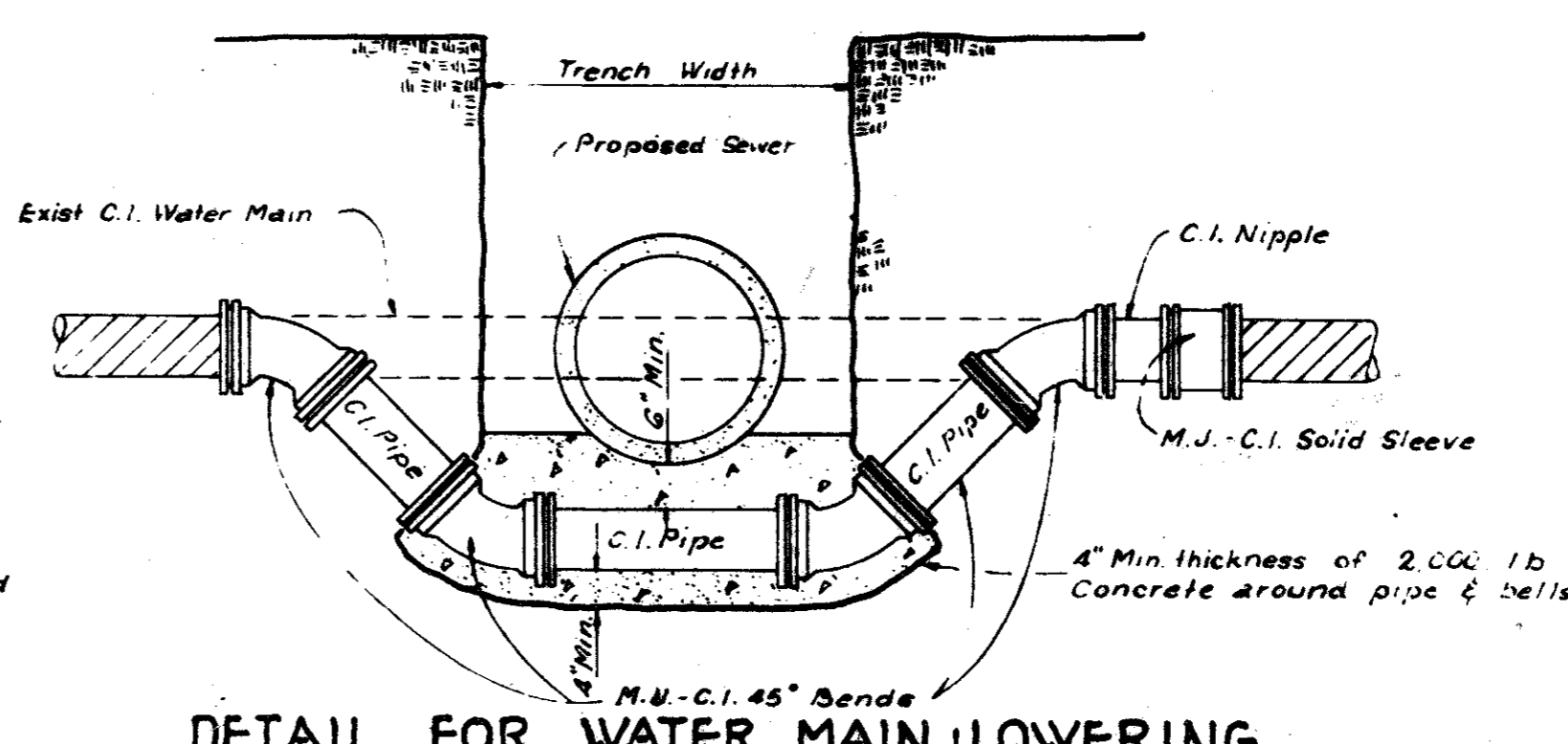


END ELEVATION **SIDE ELEVATION**

DROP CONNECTION



DETAIL OF UTILITY SUPPORT



DETAIL FOR WATER MAIN LOWERING

NOTE

PIPE SIZE	A
6"	5 3/8"
8"	8 1/2"
10"	10 3/4"
12"	12 7/8"

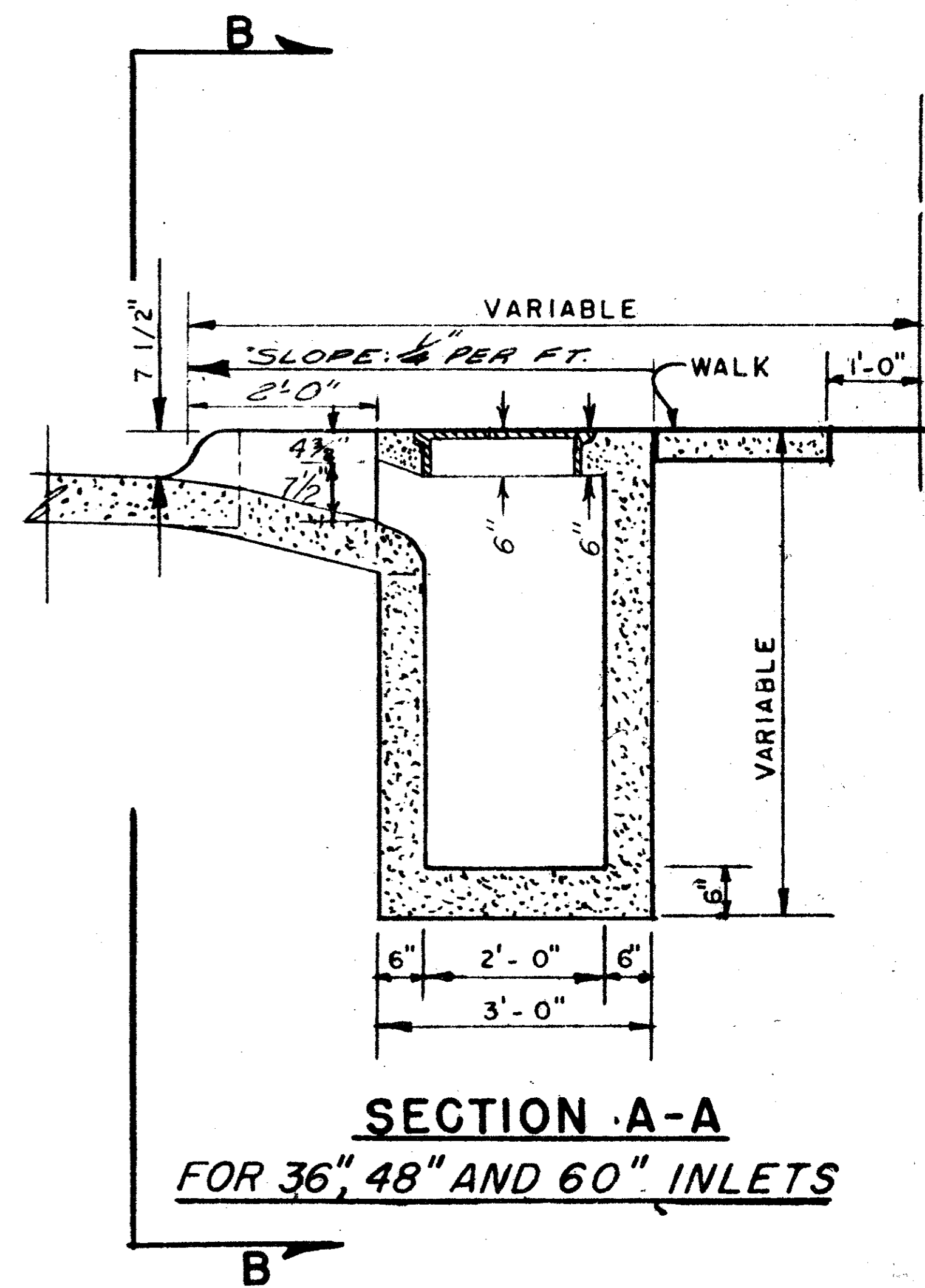
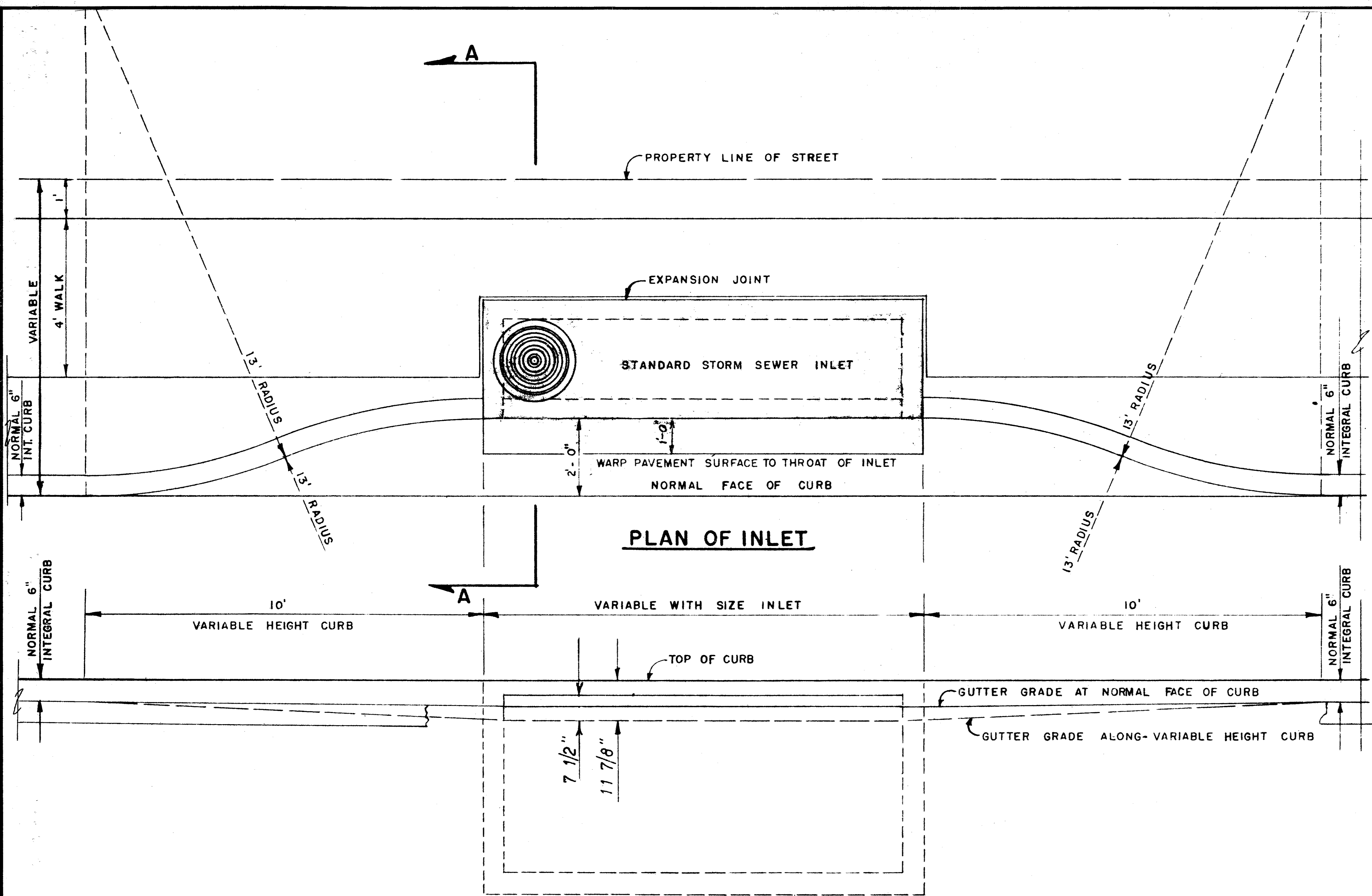
REVISED MARCH, 1978 L.E.D.
 REVISED MARCH, 1975 J.H.D.

QUORUM

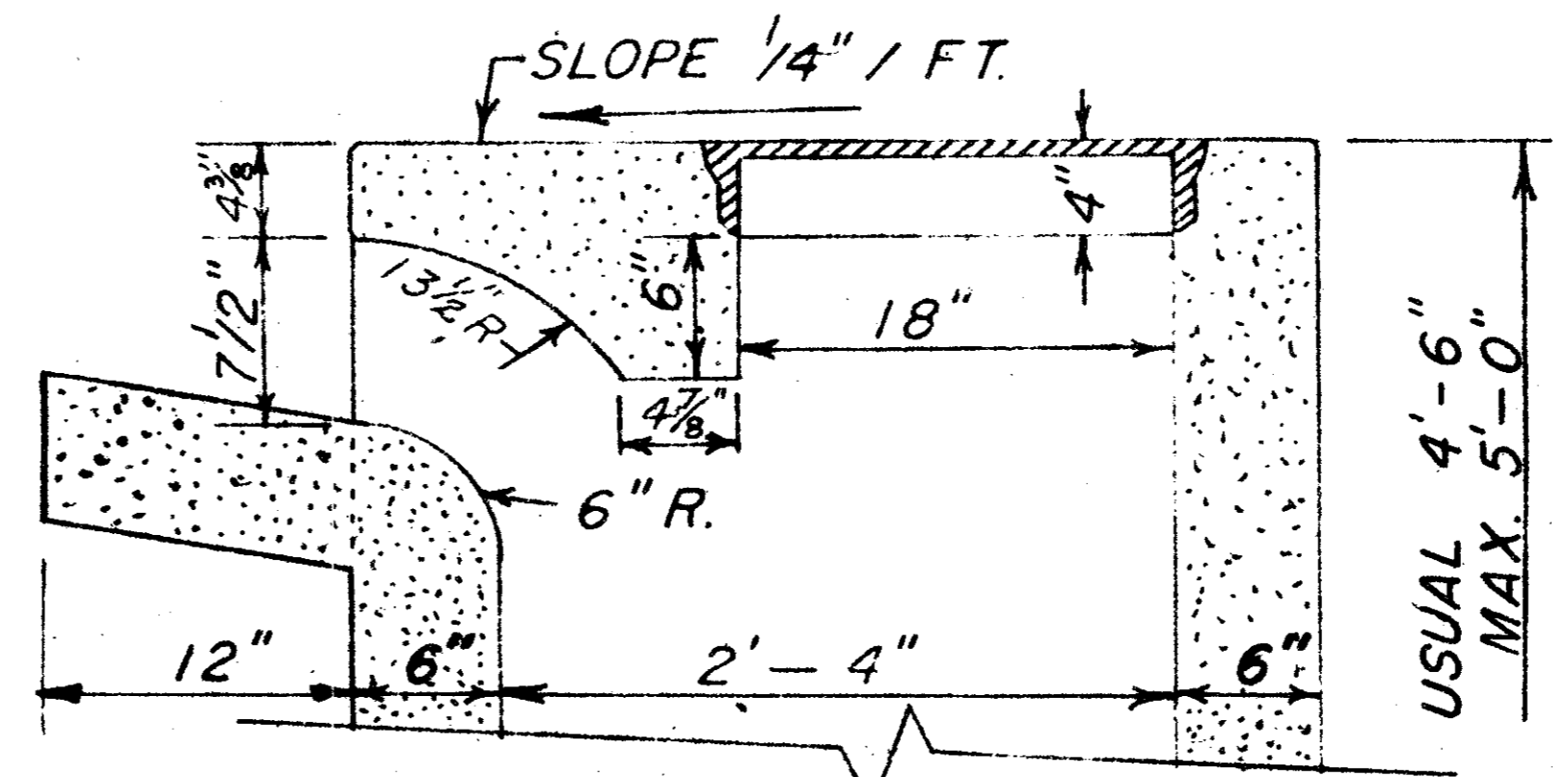
SANITARY SEWER DETAILS

Graham Associates, Inc.
 CONSULTING ENGINEERS & PLANNERS

DESIGN	DRAWN	CHECKED	DATE	SCALE	SHEET NO.
REV	RLD	D.P.	3-1-79	NONE	8 OF 22



SECTION B-B

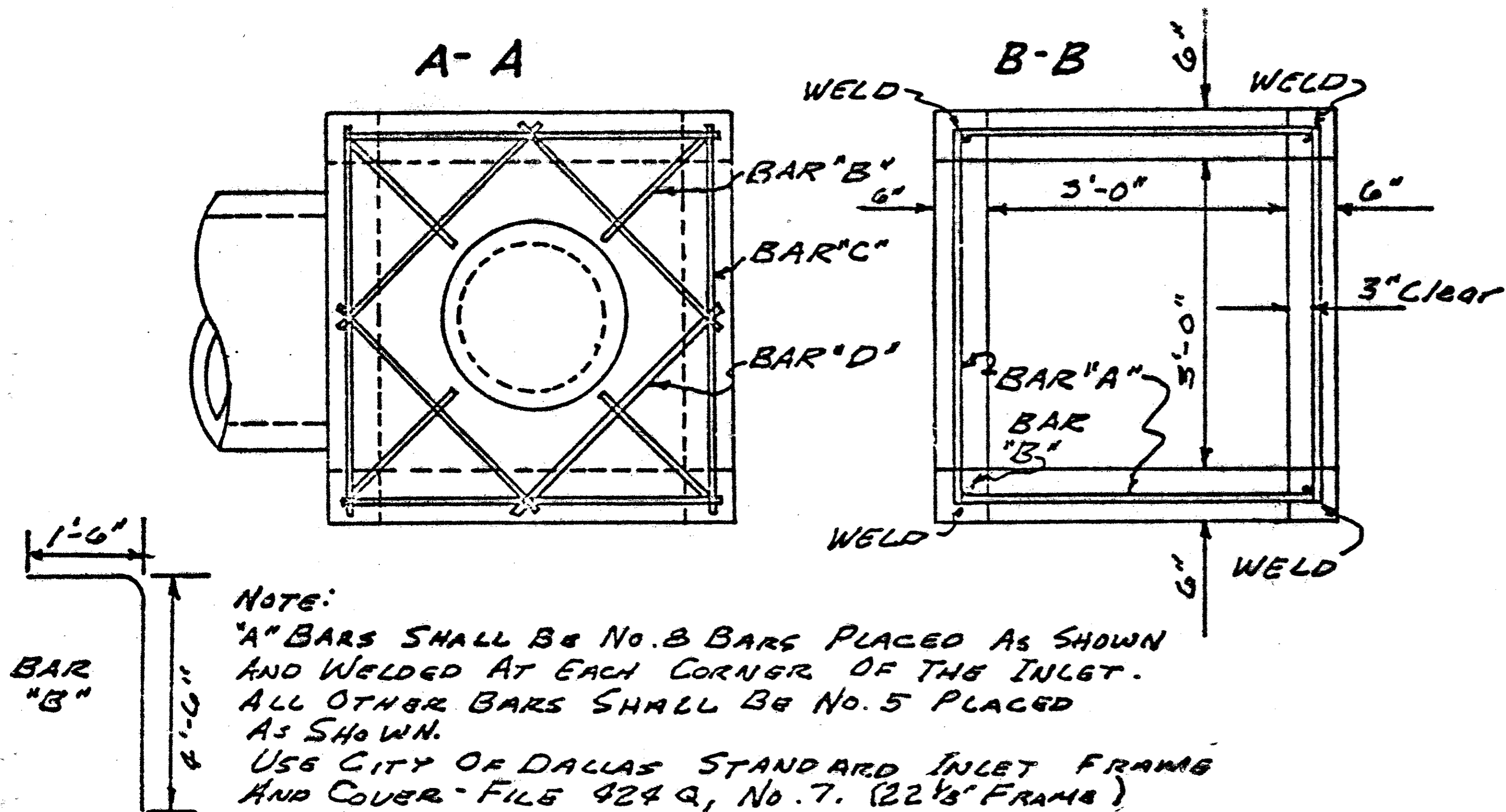


SECTION A-A FOR 6, 8 AND 10 FT. INLETS

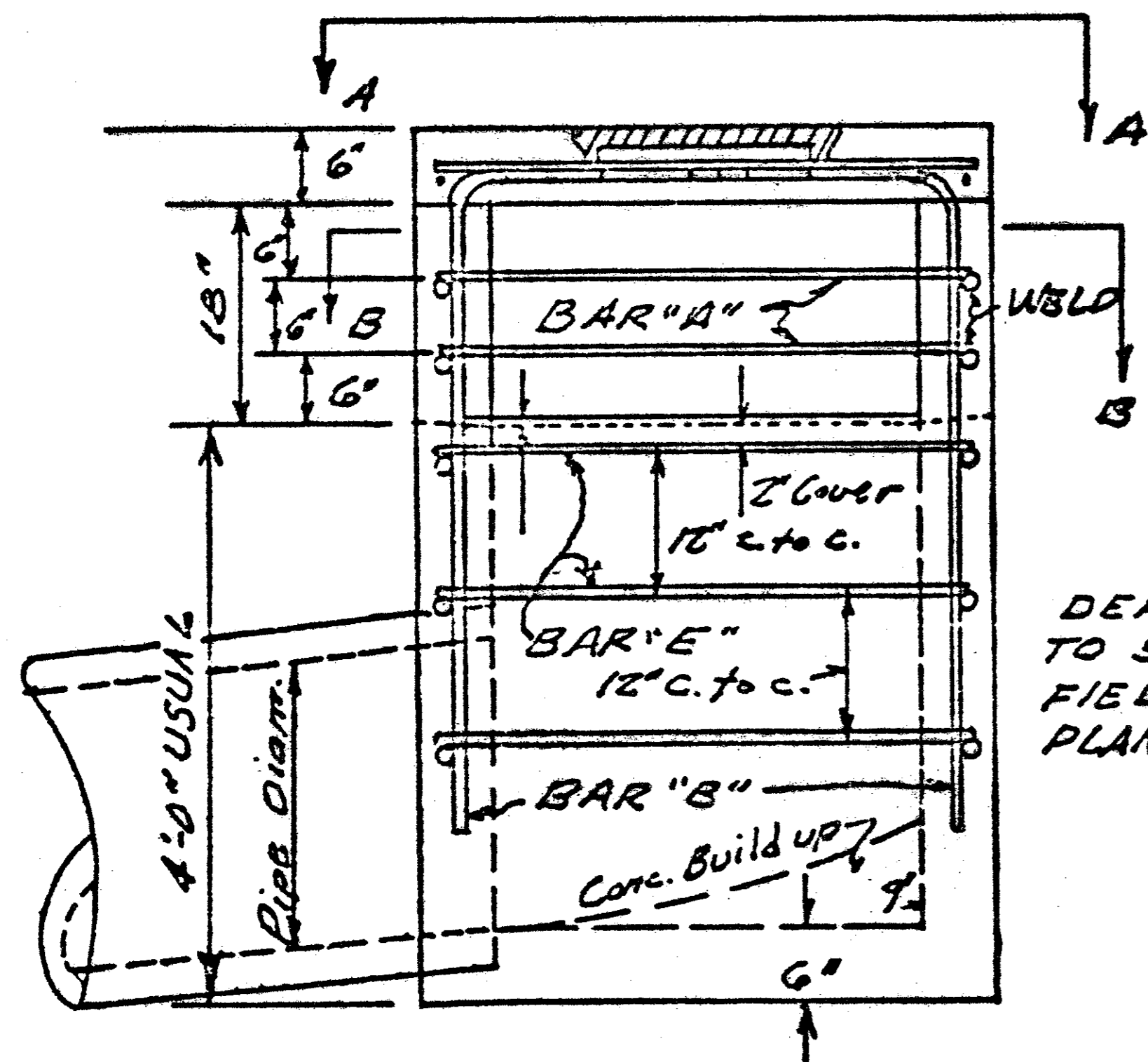
NOTE.
SEE FILE 424Q-7 FOR REINFORCING AND BEAM DESIGN

DETAILS OF STANDARD RECESSED STORM SEWER INLETS AND CURBS		
DEPARTMENT OF PUBLIC WORKS CITY OF DALLAS, TEXAS		
SCALE	FILE	SHEET NO.
3/8" = 1'-0"	424	19 of 22

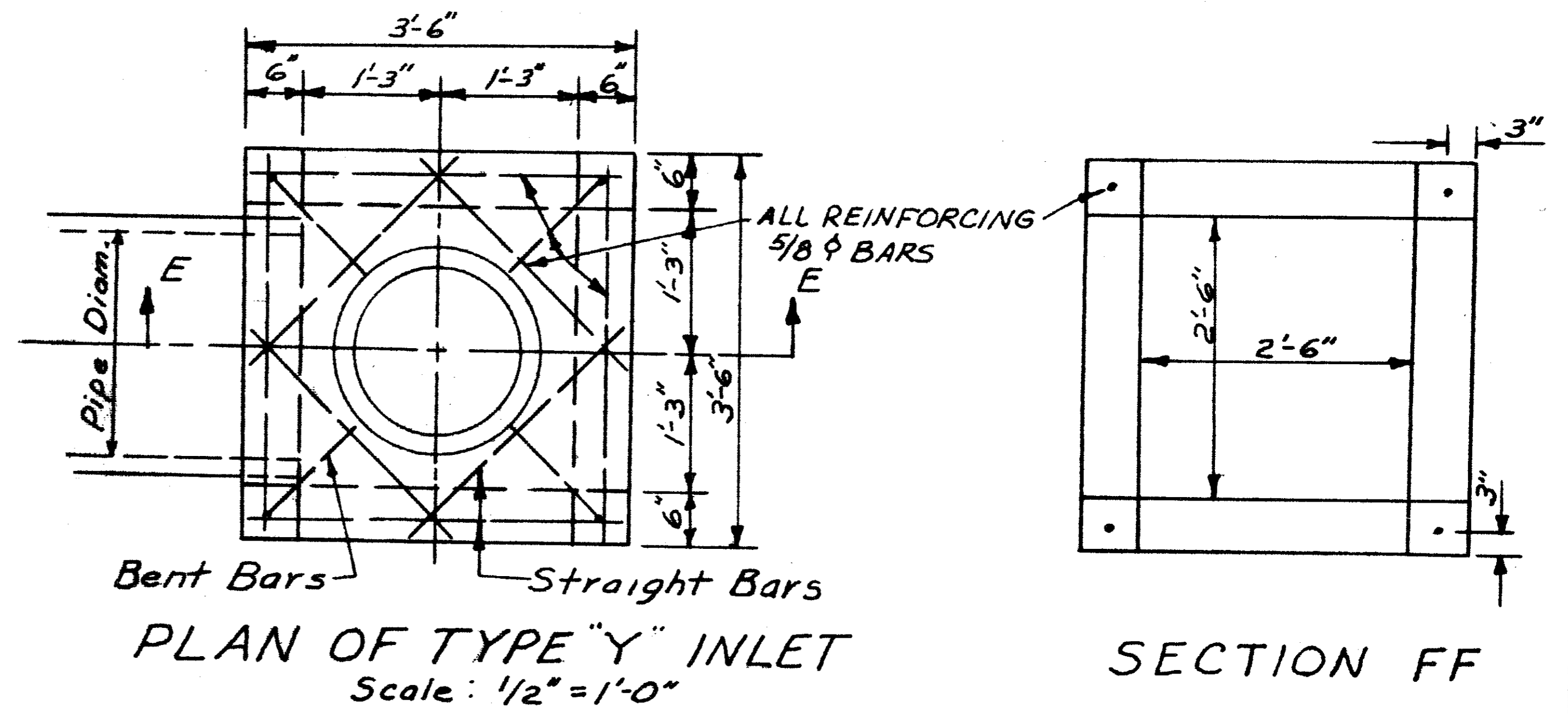
SPECIAL "Y" INLET
Scale: 1/2" = 1'



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)

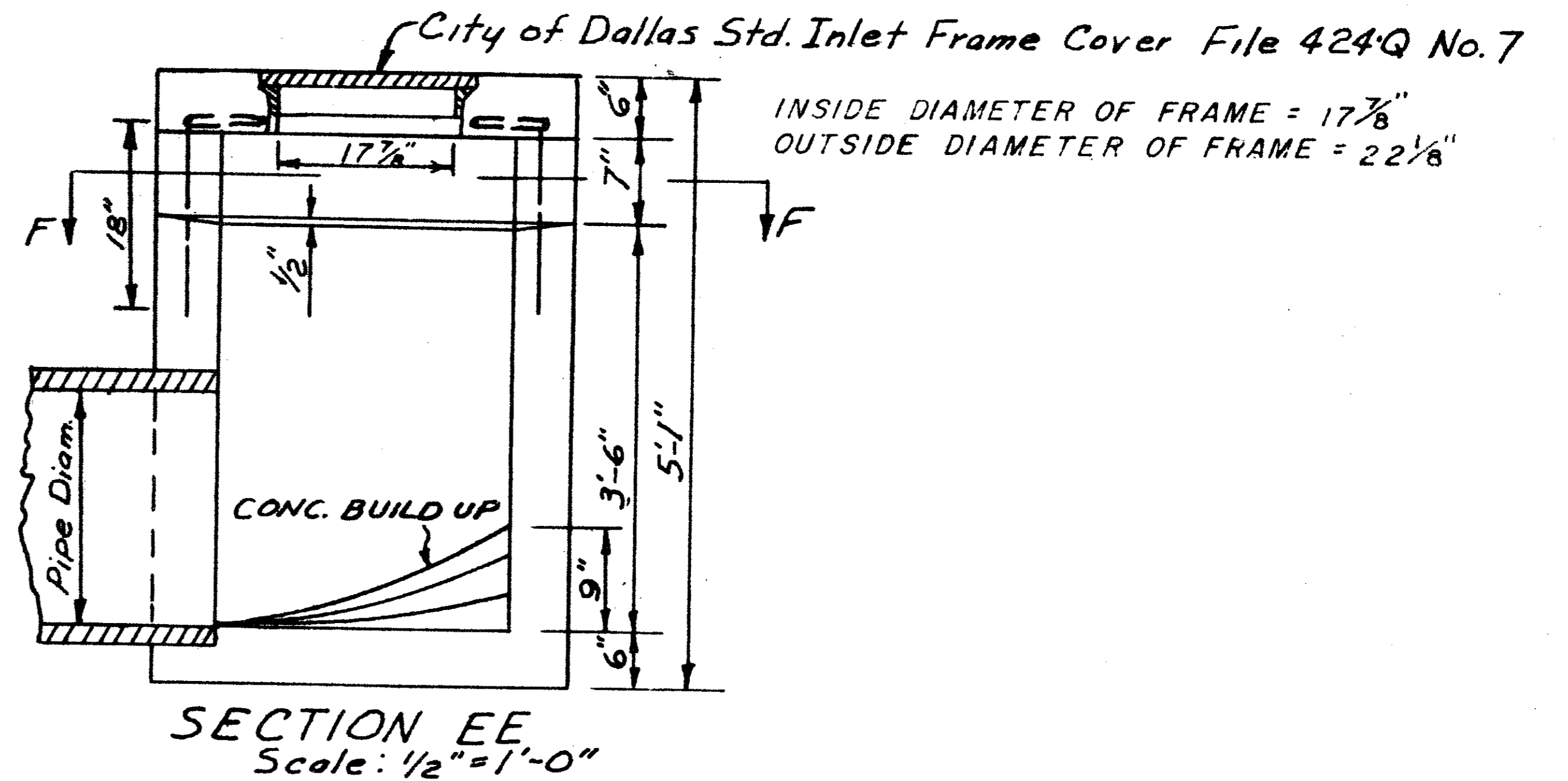


DEPTH OF INLET MAY VARY TO SUIT CONDITION IN THE FIELD OR AS SPECIFIED ON PLANS.



PLAN OF TYPE "Y" INLET
Scale: 1/2" = 1'-0"

SECTION FF



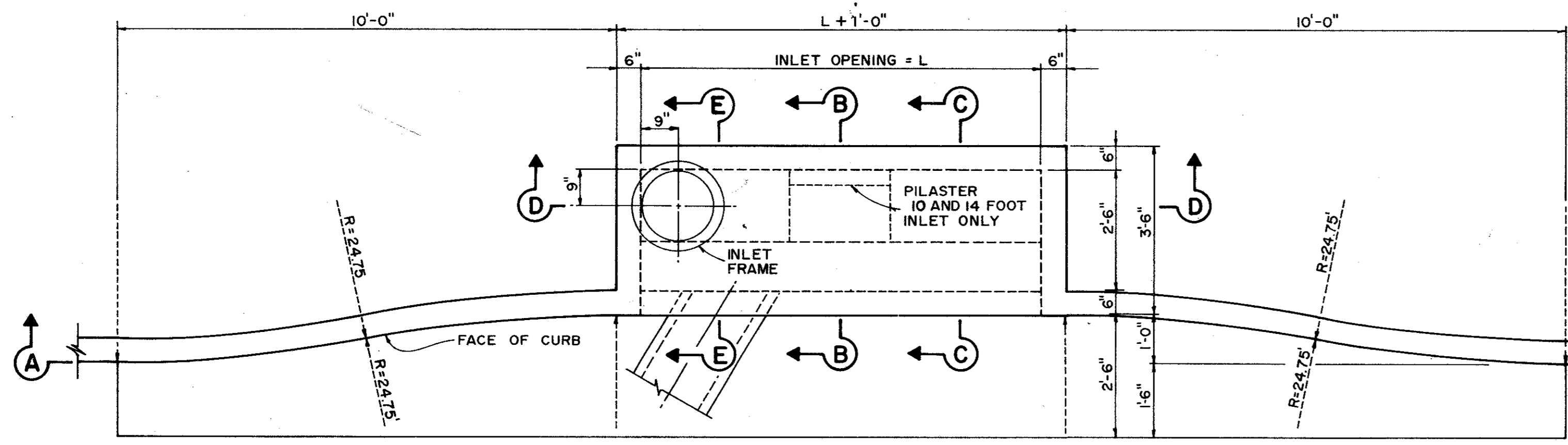
SECTION EE
Scale: 1/2" = 1'-0"

QUORUM

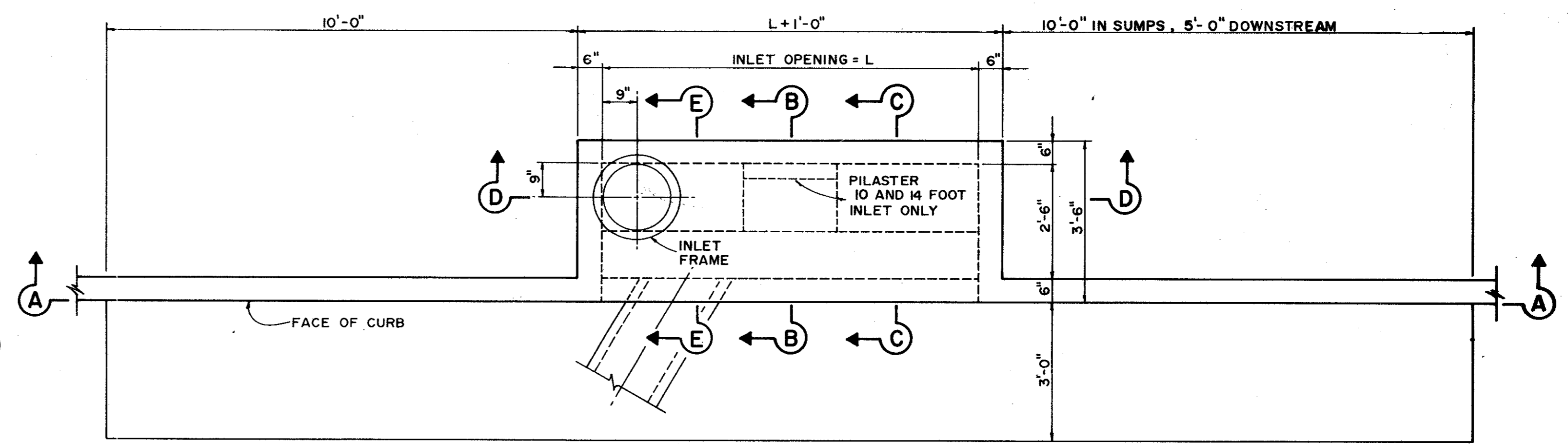
All CONC. TO BE 3000 P.S.I.
Rev: 5-6-52 Reduce Throat Opening

STANDARD CITY OF DALLAS					
TYPE "Y" INLET					
DEPARTMENT OF PUBLIC WORKS					
DRAWN	TRACED	DATE	SCALE	FILE	SHEET
H.C.	R.E.H.	JUNE '50	NO. ED	424	20 of 22

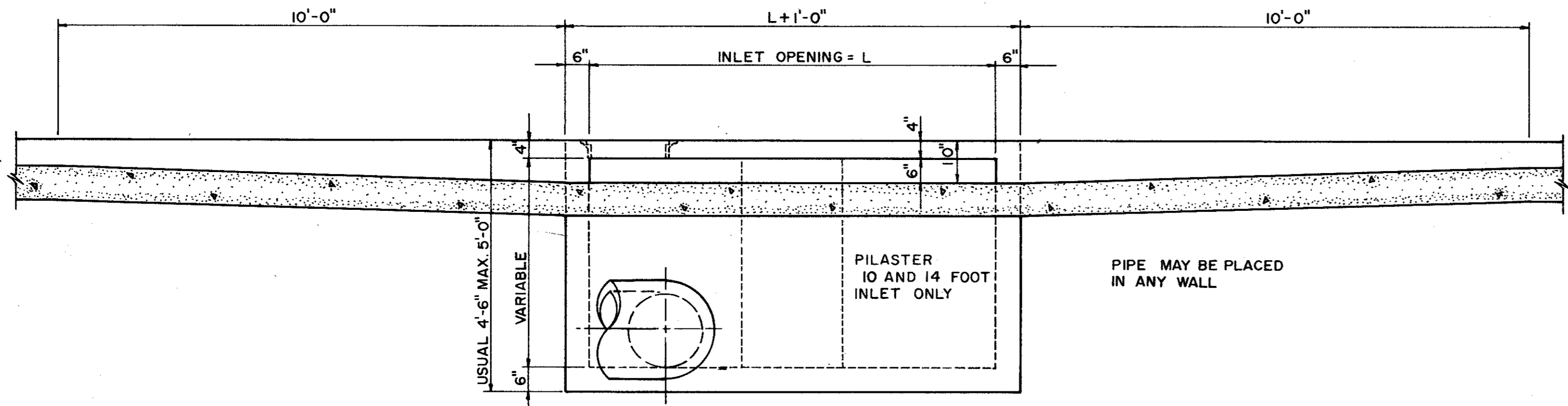
RH
8/6/80



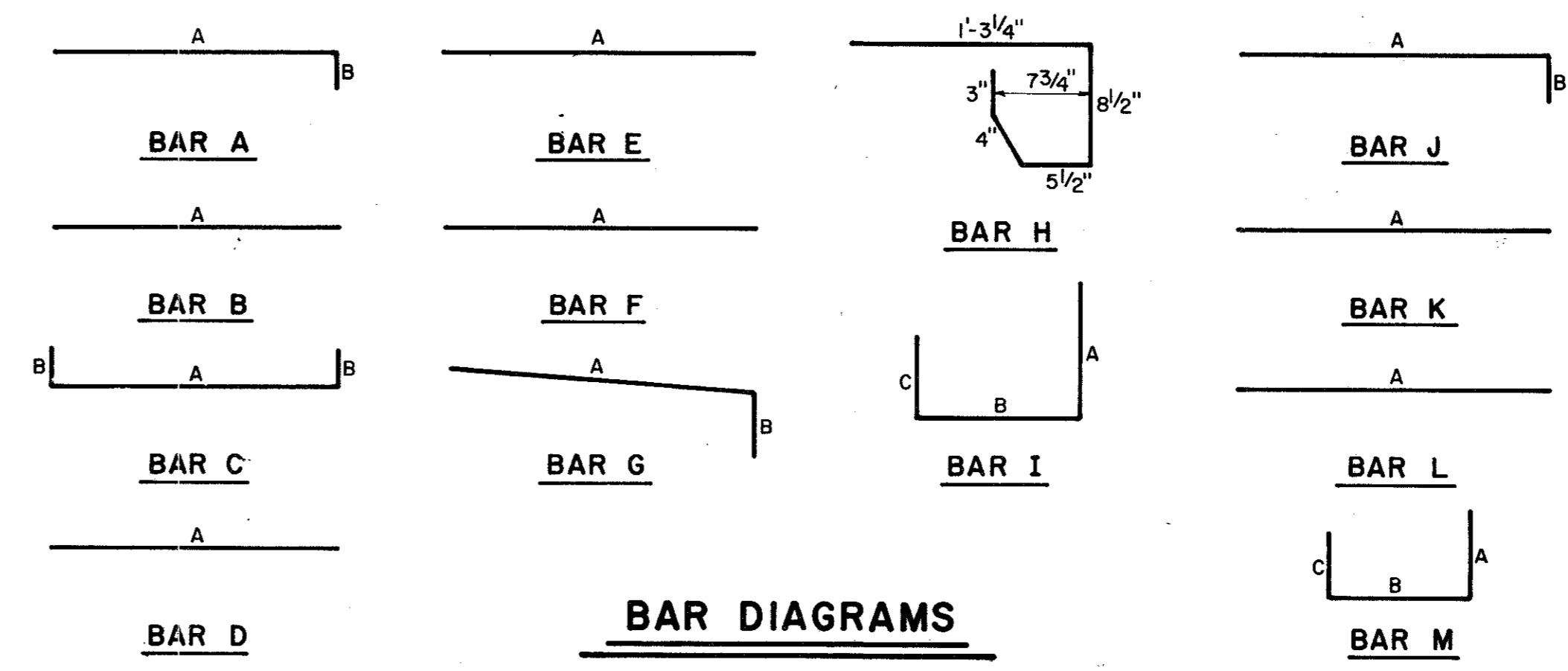
PLAN - RECESSED INLET



PLAN - STANDARD INLET



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



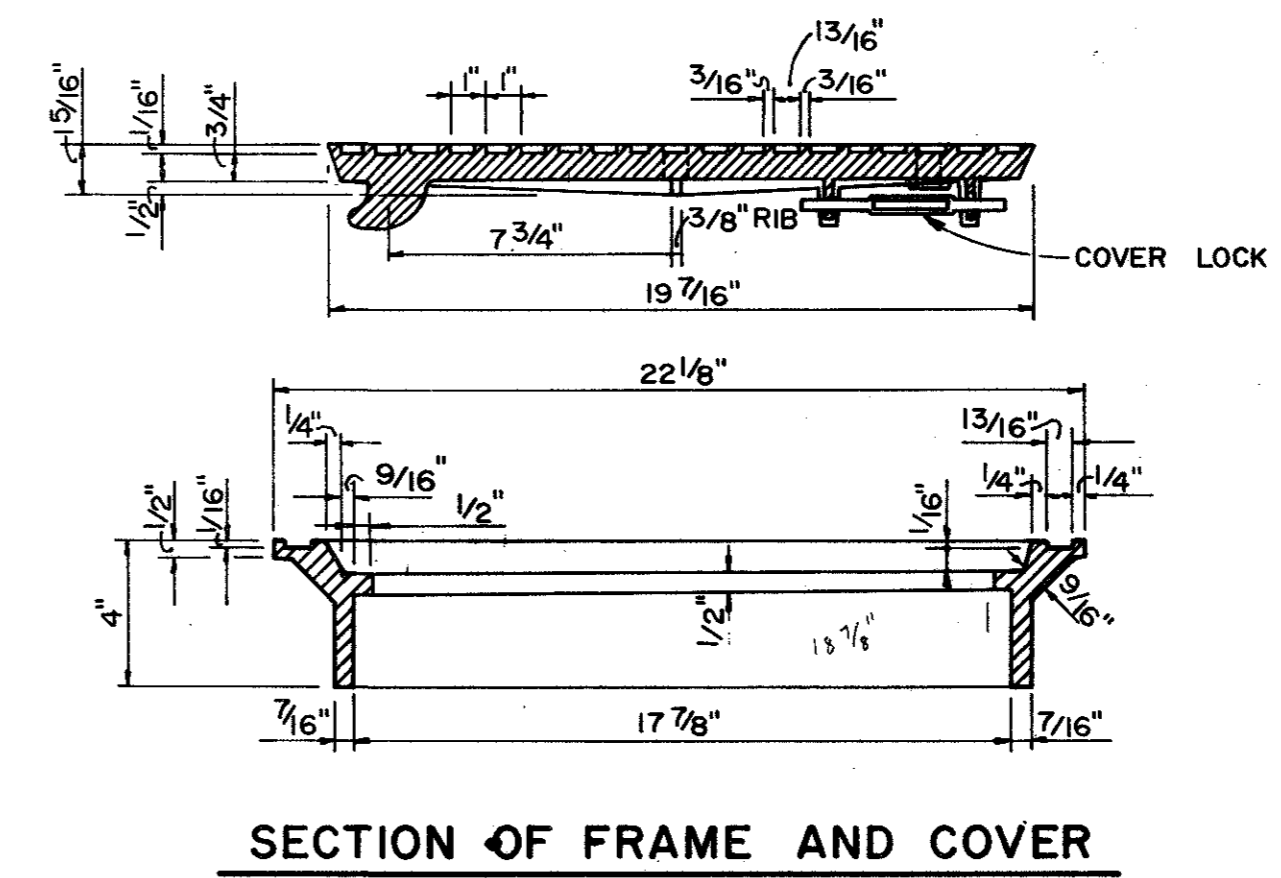
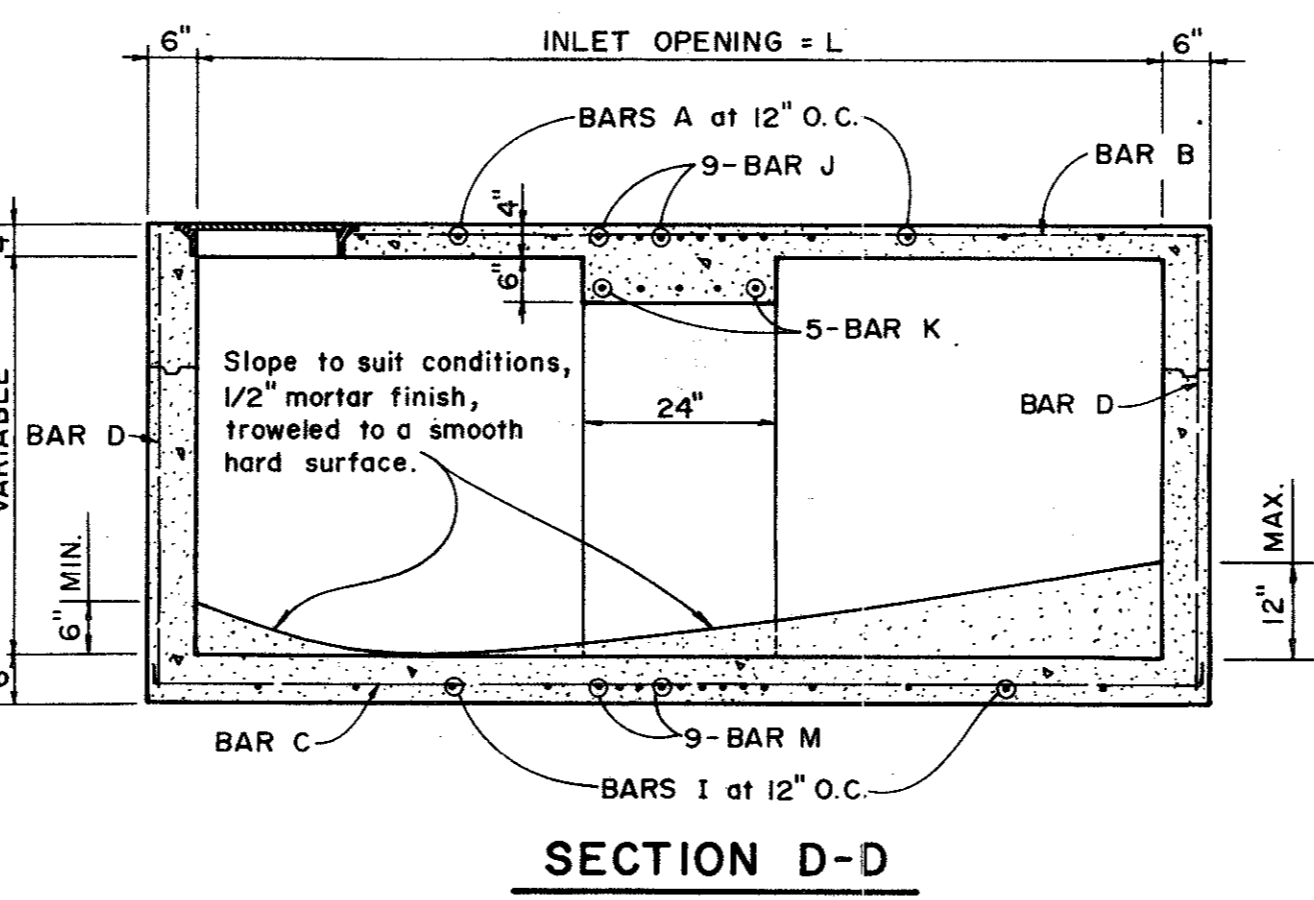
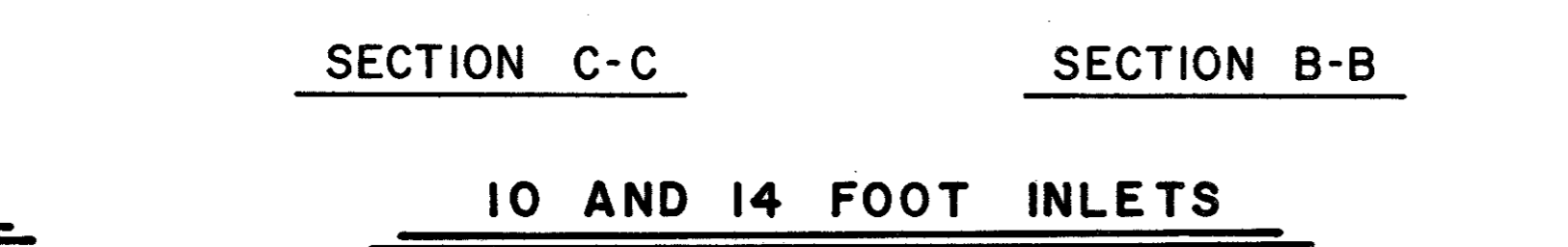
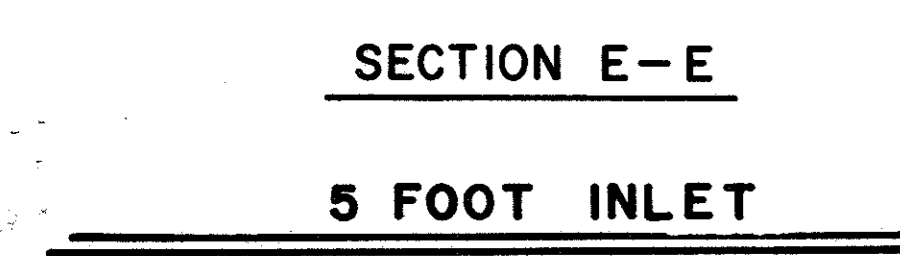
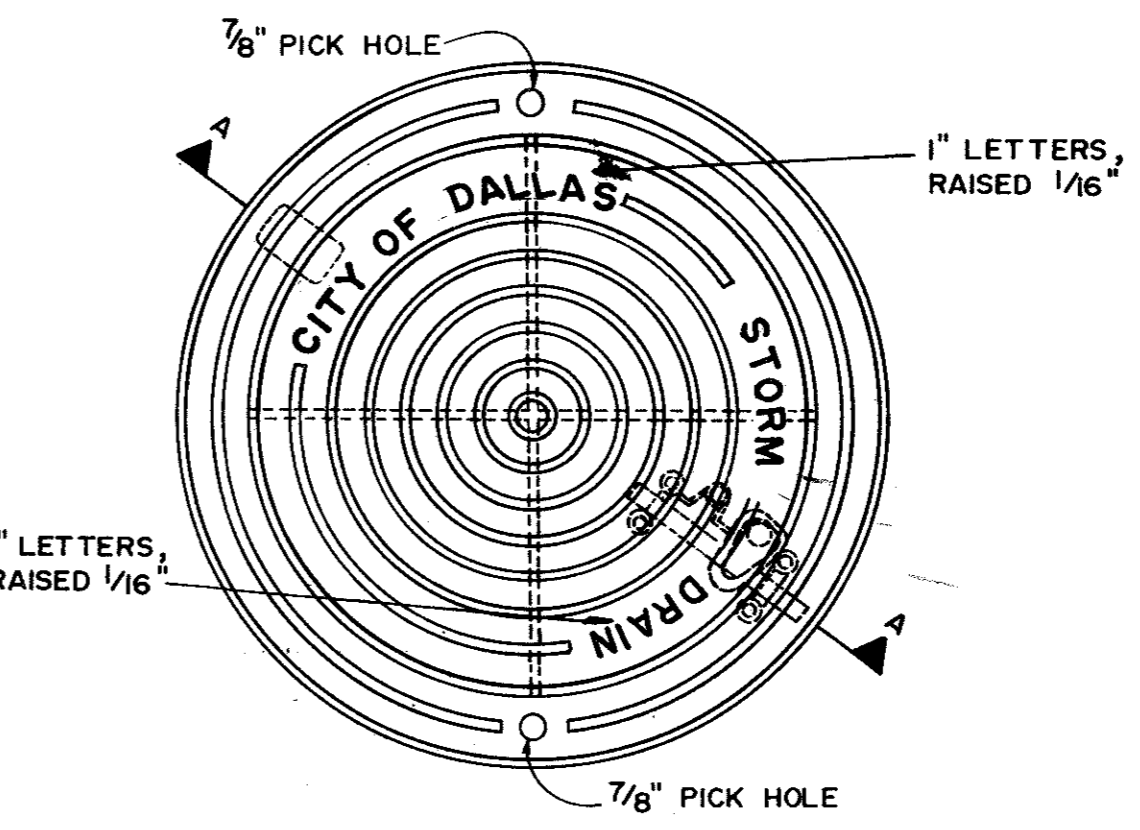
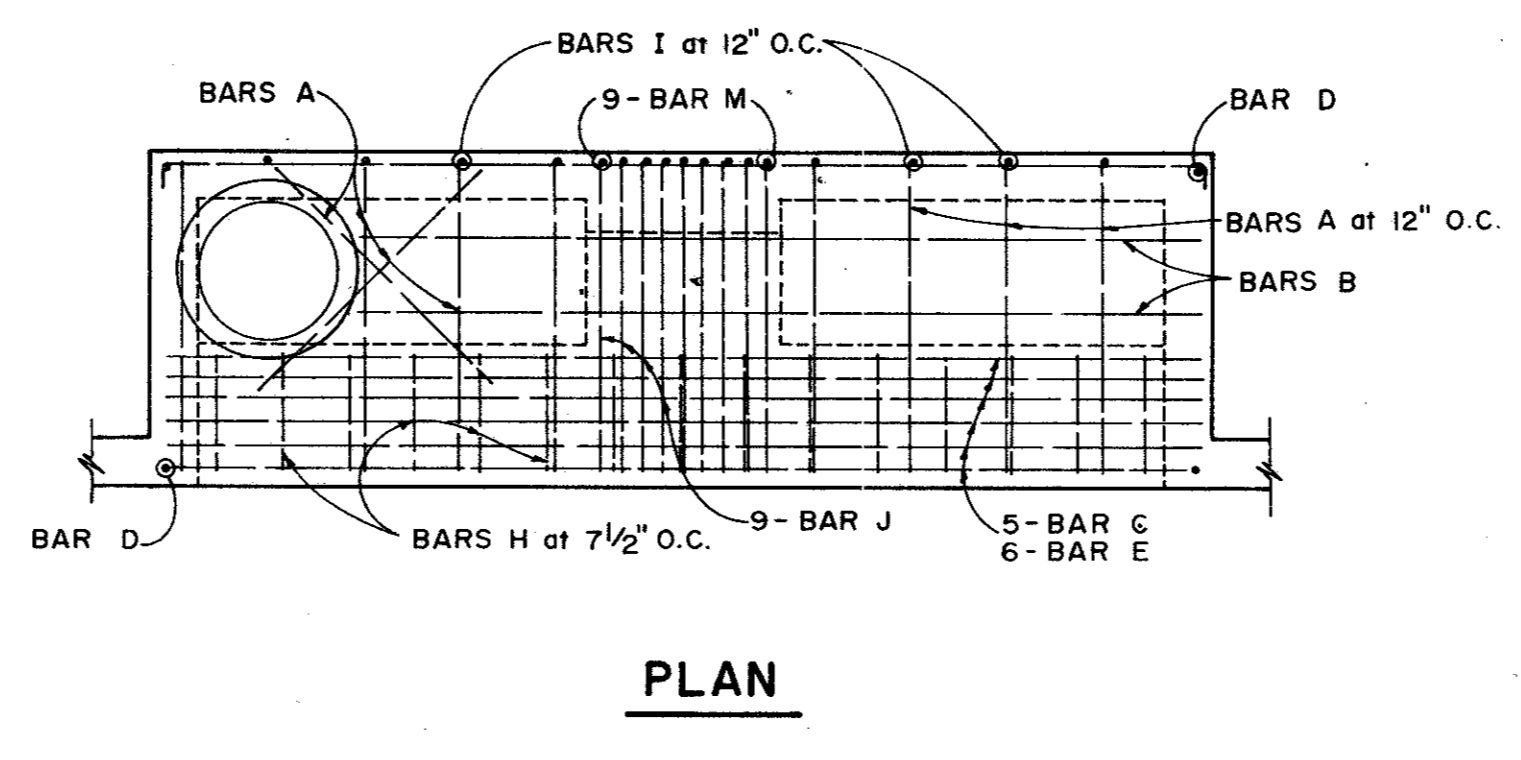
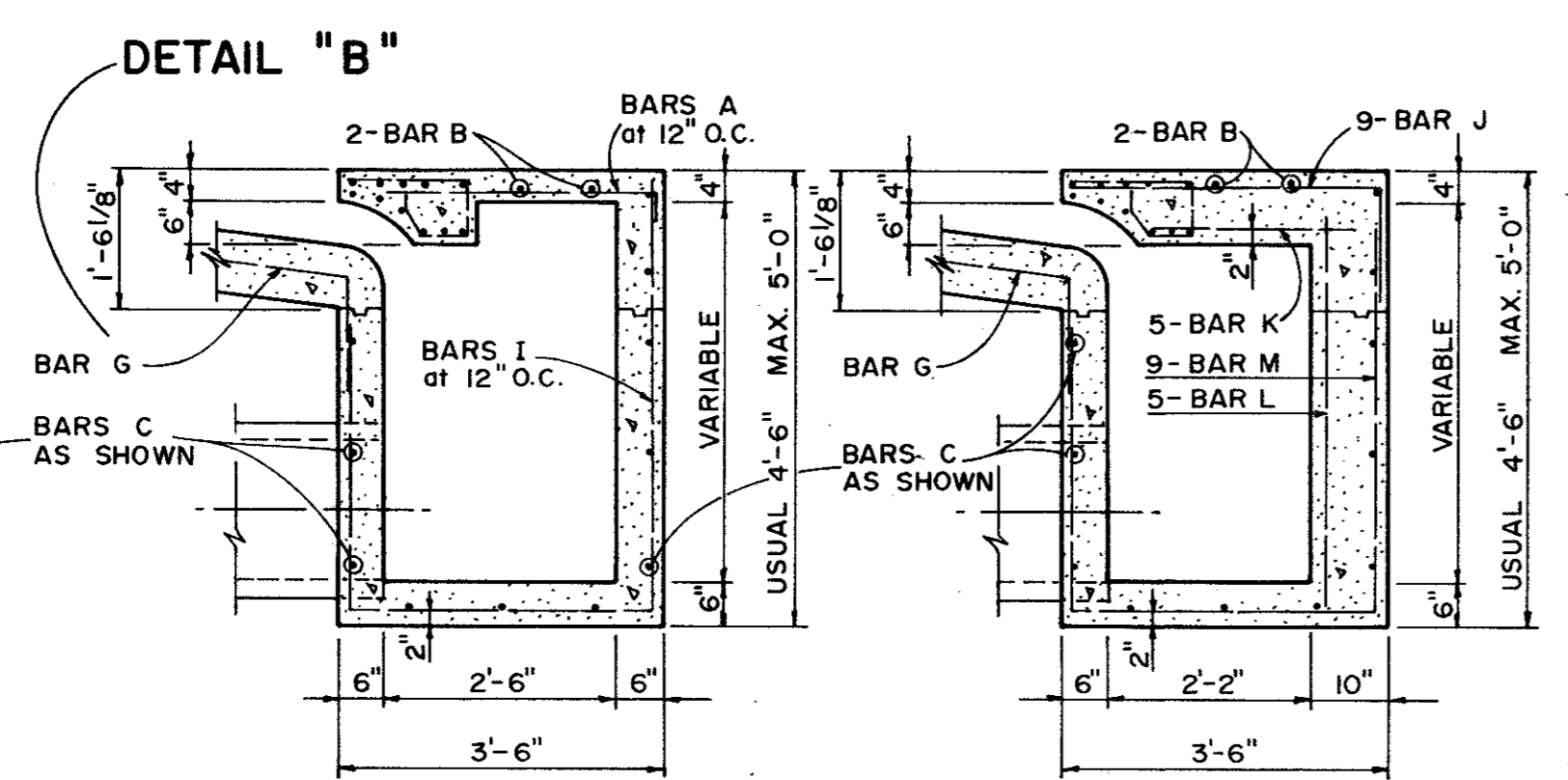
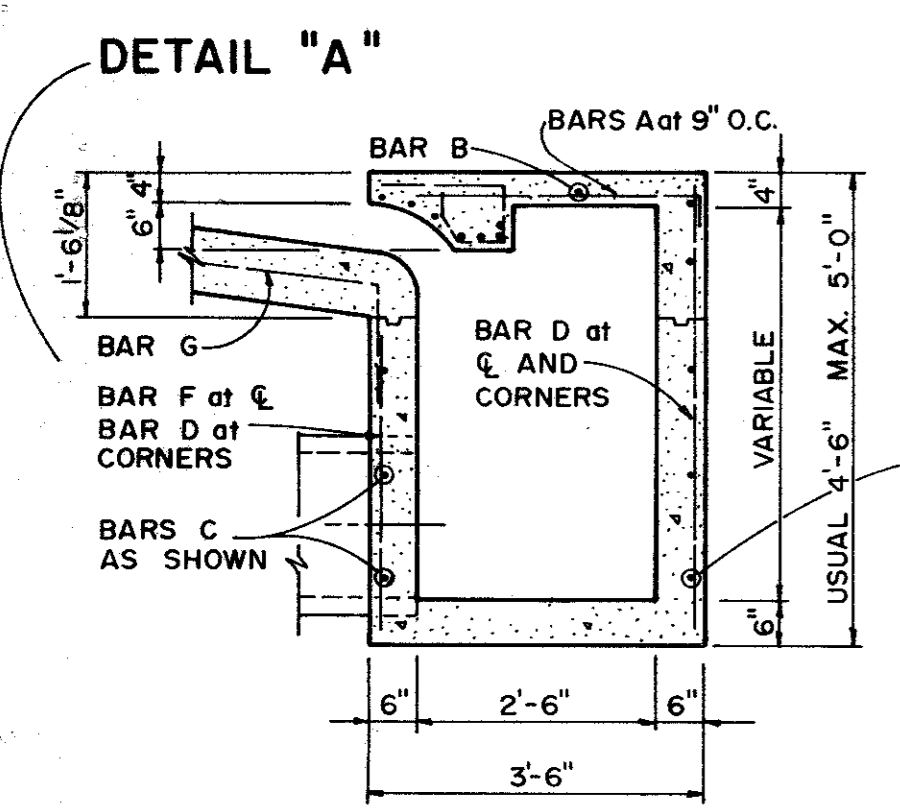
BAR DIAGRAMS

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	15	*	*	*
	I	4	8	4'-6"	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'-3"	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



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