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TEXAS TURNPIKE AUTHORITY

CONTRACT NO. DNT 115
GRADING, DRAINAGE,
PAVING AND STRUCTURES

SECTION VII
VOLUME 1

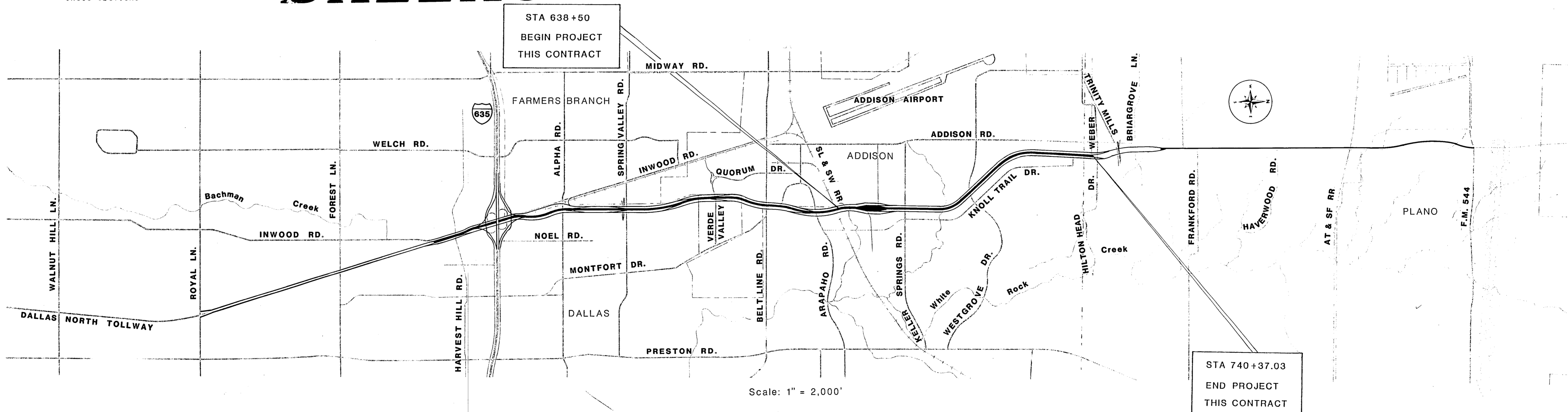
STANDARD DRAWINGS

STD. No.	TITLE
1	TOLLWAY INLET TYPE "C"
2	TOLLWAY MEDIAN INLET TYPE "M"
3	TOLLWAY GUTTER INLET TYPE "G"
4	STANDARD INLET TYPE "CDR" - 3', 4' & 5'
5	STANDARD INLET TYPE "CDR" - 6', 8' & 10'
6	STANDARD INLET TYPE "CDR" - 14'
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8	STANDARD TOLLWAY MANHOLES TYPE I, II & III
9	MANHOLE DETAILS
10	STANDARD UNDERDRAINS
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18	PRESTRESSED CONCRETE BEAMS - BEAM DETAILS
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20	PRESTRESSED CONCRETE BEAMS - MINIMUM ERECTION AND BRACING REQUIREMENTS - TYPE "C" BEAMS
21	INTERIOR DIAPHRAGM AND PRECAST RAIL ANCHORAGE DETAILS
22	ARMOR JOINT DETAILS
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25	CONCRETE TRAFFIC BARRIER - TYPE 1
26	CONCRETE TRAFFIC BARRIER TYPE 2 & 3
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35	MULTIPLE BOX CULVERTS - MC 10-2
36-37	MULTIPLE BOX CULVERTS - MC 10-3
38	PRECAST CONCRETE BOX CULVERTS - PC-3
39	FLARED WINGWALLS FOR MULTIPLE CULVERTS - MCW-F2
40	PARALLEL WINGS FOR MULTIPLE BOX CULVERTS - MCW-P-45
41	MULTIPLE BOX CULVERT - 45 DEGREE SKEW

DALLAS NORTH TOLLWAY

VOLUME 2

1 - 95 CROSS SECTIONS



APPROVED by:
CITY of DALLAS

DIRECTOR of PUBLIC WORKS

DATE:

APPROVED by:
TOWN of ADDISON

DATE:



Prepared by:
GIBBS & HILL, INC./BRIDGEFARMER & ASSOCIATES, INC.

David W. Clary

Date: September 6, 1984

Recommended by:
HOWARD, NEEDLES, TAMMEN & BERGENDOFF

David T. Becker
Engineer in Charge

Date: Sept 6, 1984

Recommended by:
TEXAS TURNPIKE AUTHORITY

James W. Griffin
Director, Engineering & Maintenance

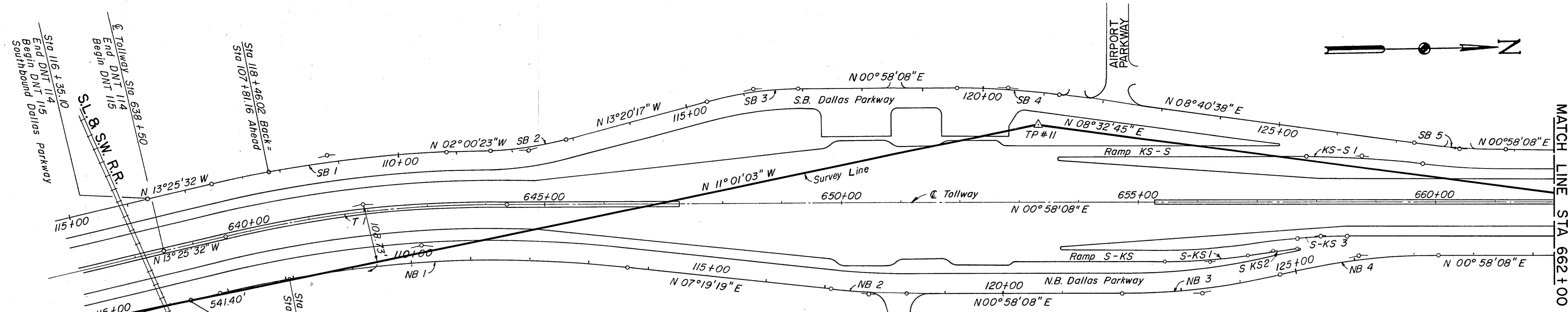
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Approved by:
TEXAS TURNPIKE AUTHORITY

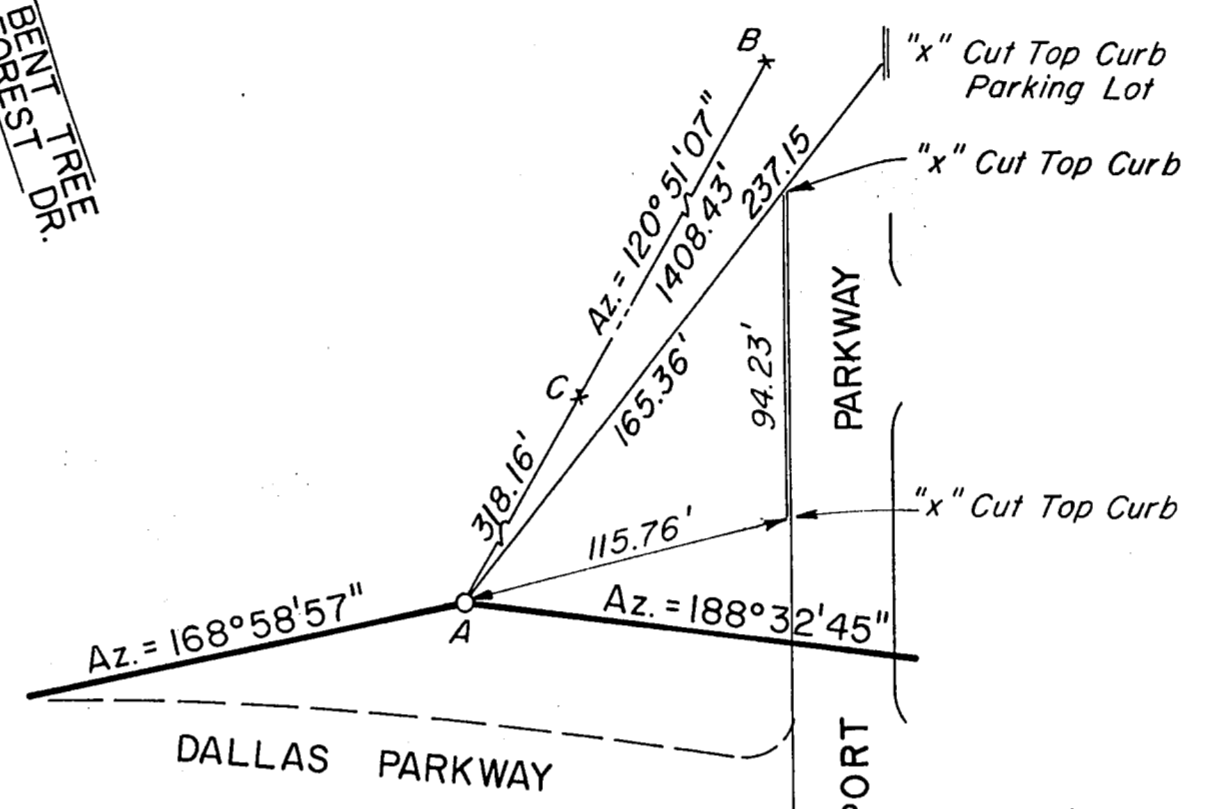
Tom Wiley
Engineer Manager

Date: 9-7-84

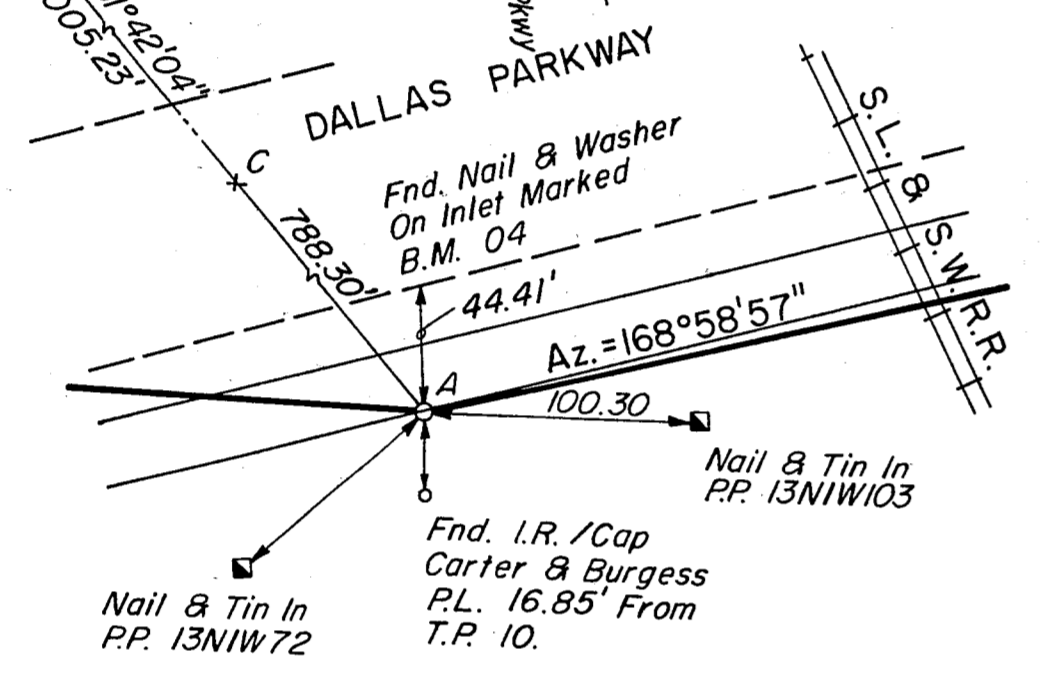
NOTES:
1. Refer to plan-profile sheets for additional alignment details.



- A= TRAVERSE POINT #10
1/2" IRON ROD SET 85' EAST OF THE CENTERLINE OF THE DALLAS PARKWAY AND 180' SOUTH OF THE S.L. & S.W.R.R.
- B= CHISELED "X" ON THE TOP OF CURB ON THE WEST SIDE OF THE ADELSTEIN PLAZA #15501 DALLAS PARKWAY.
- C= CHISELED "X" ON THE TOP OF CURB ON THE EAST SIDE OF A PARKING LOT OF THE ADELSTEIN PLAZA #15501 DALLAS PARKWAY.

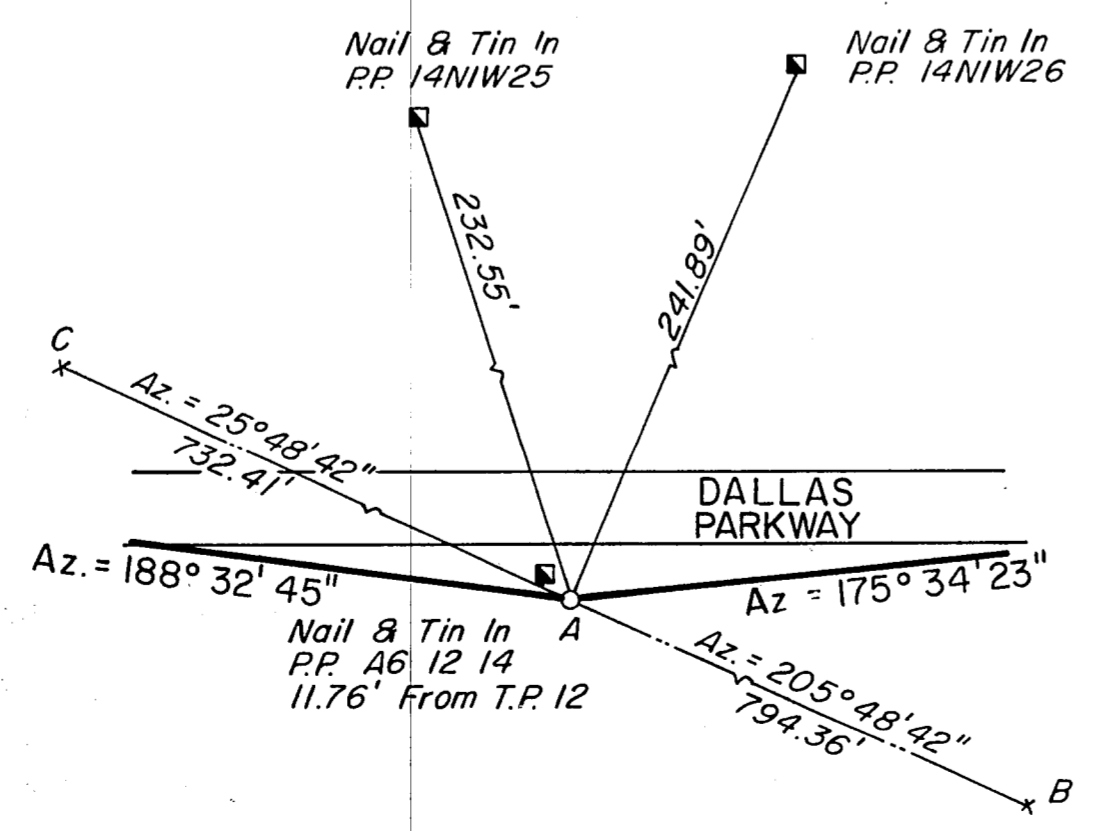
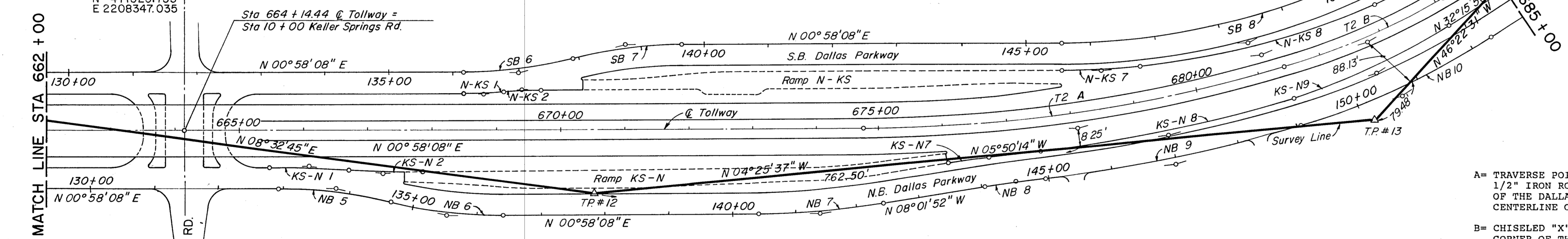


- A= TRAVERSE POINT #11
1/2" IRON ROD SET 80' WEST OF THE CENTERLINE OF THE DALLAS PARKWAY AND 130' SOUTH OF THE CENTERLINE OF AIRPORT PARKWAY.
- B= CHISELED "X" ON THE TOP OF CURB ON THE EAST SIDE OF THE PARKING LOT FOR THE PARKWAY BUSINESS CENTER AT #4950 KELLER SPRINGS ROAD OPPOSITE BUILDING #4.
- C= CHISELED "X" ON THE TOP OF CURB ON THE SOUTH SIDE OF THE PARKING LOT FOR HARRIS DATA COMMUNICATIONS AT #16001 DALLAS PARKWAY.



TRAVERSE PT. #10

N 471525.753
E 2208347.035



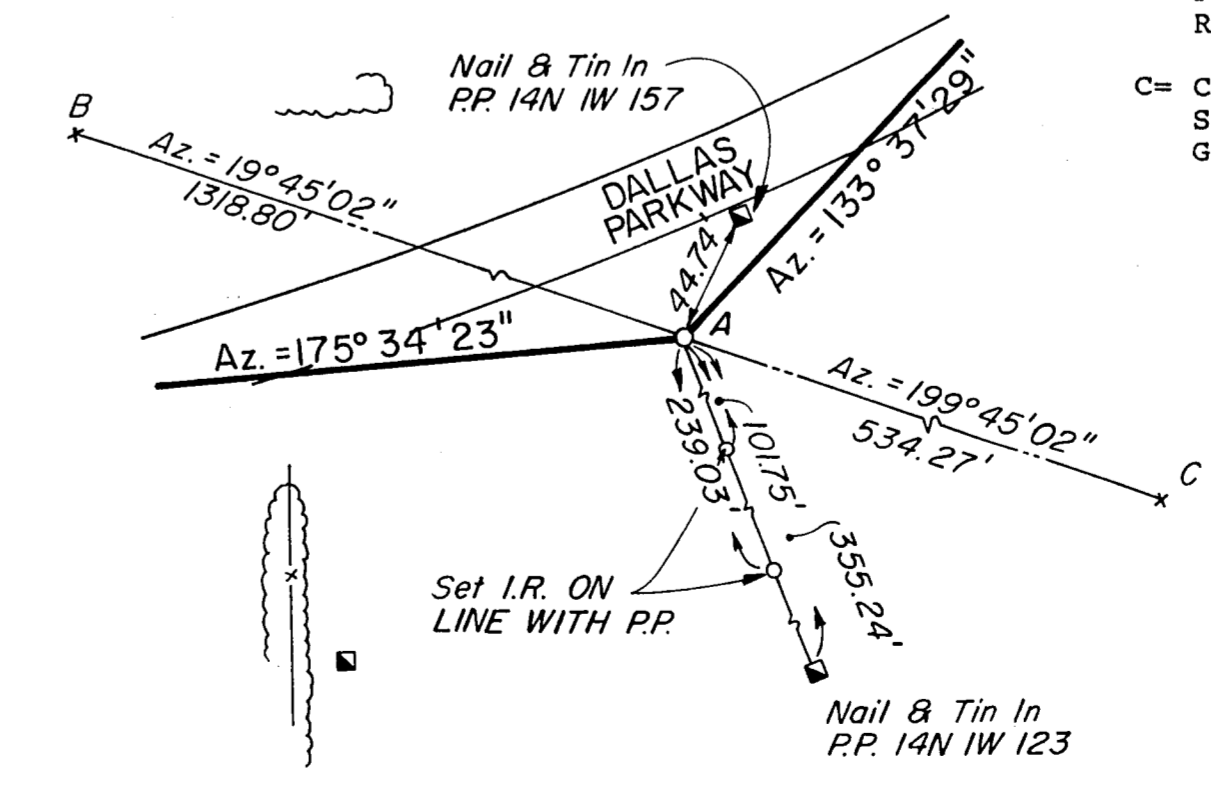
TRAVERSE PT. #12

N 474894.467
E 2208283.761

- A= TRAVERSE POINT #12
1/2" IRON ROD SET 30' EAST OF THE CENTERLINE OF DALLAS PARKWAY AND 630' NORTH OF THE CENTERLINE OF KELLER SPRINGS ROAD.
- B= CHISELED "X" ON THE TOP OF CURB IN THE S.W. CORNER OF A PARKING LOT FOR THE HUMBLE EXPLORATION COMPANY, INC. AT #16200 DALLAS PARKWAY.
- C= CHISELED "X" ON THE TOP OF CURB ON THE SOUTH SIDE OF KELLER SPRINGS ROAD AND WEST OF THE DALLAS PARKWAY 85' WEST OF A FIRE HYDRANT.

TRAVERSE PT. #11

N 473176.614
E 2208025.619



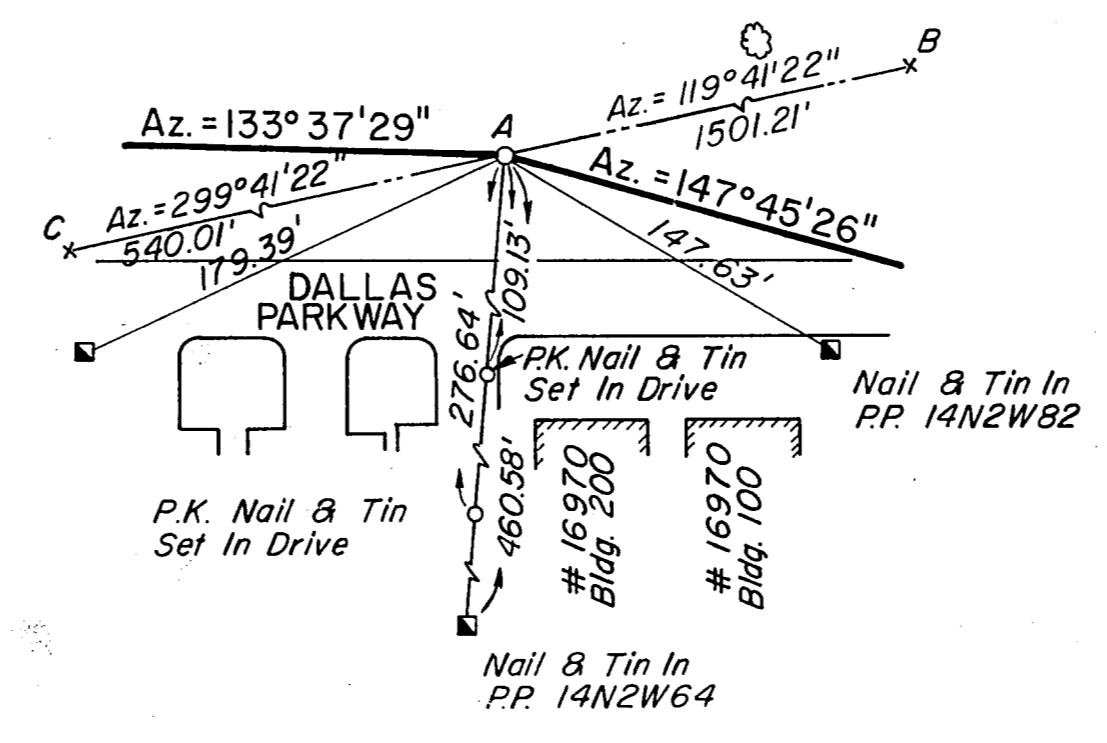
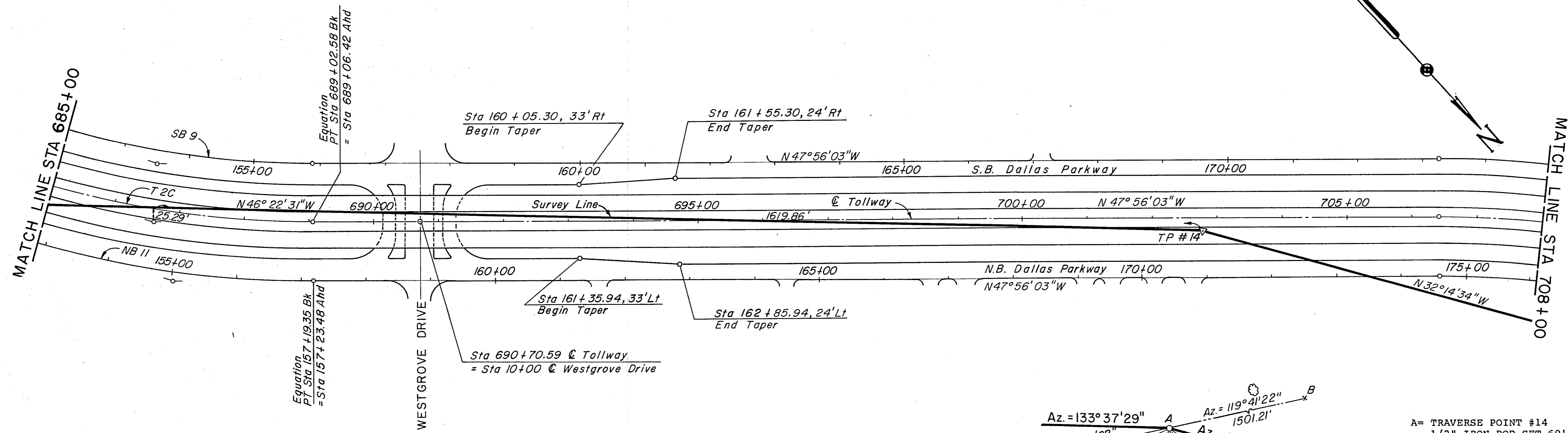
TRAVERSE PT. #13

N 476114.367
E 2208189.319

- A= TRAVERSE POINT #13
1/2" IRON ROD SET 50' EAST OF THE CENTERLINE OF THE DALLAS PARKWAY AND 860' SOUTH OF THE CENTERLINE OF WEST GROVE DRIVE.
- B= CHISELED "X" ON THE TOP OF CURB AT THE N.E. CORNER OF THE PARKING LOT OF THE UNITED FIDELITY BUILDING AT #5055 KELLER SPRINGS ROAD.
- C= CHISELED "X" ON THE TOP OF CURB ON THE EAST SIDE OF KNOLL TRAIL DRIVE 700' SOUTH OF WEST GROVE DRIVE.

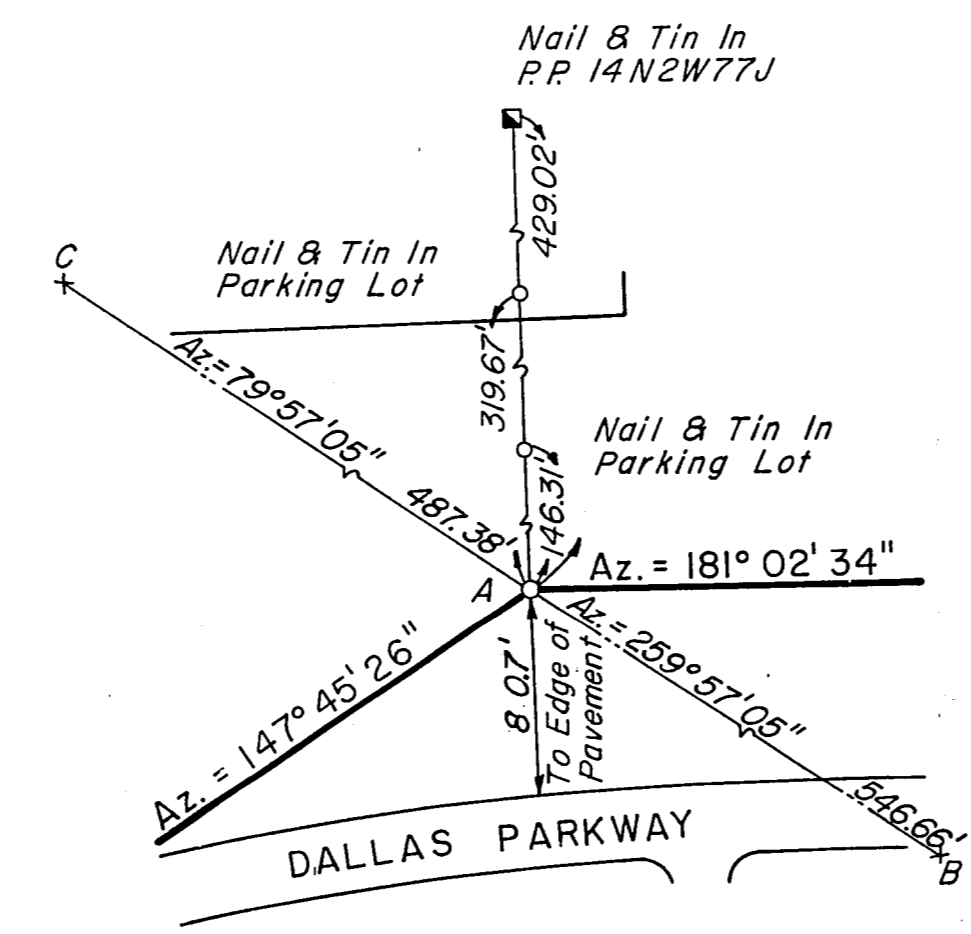
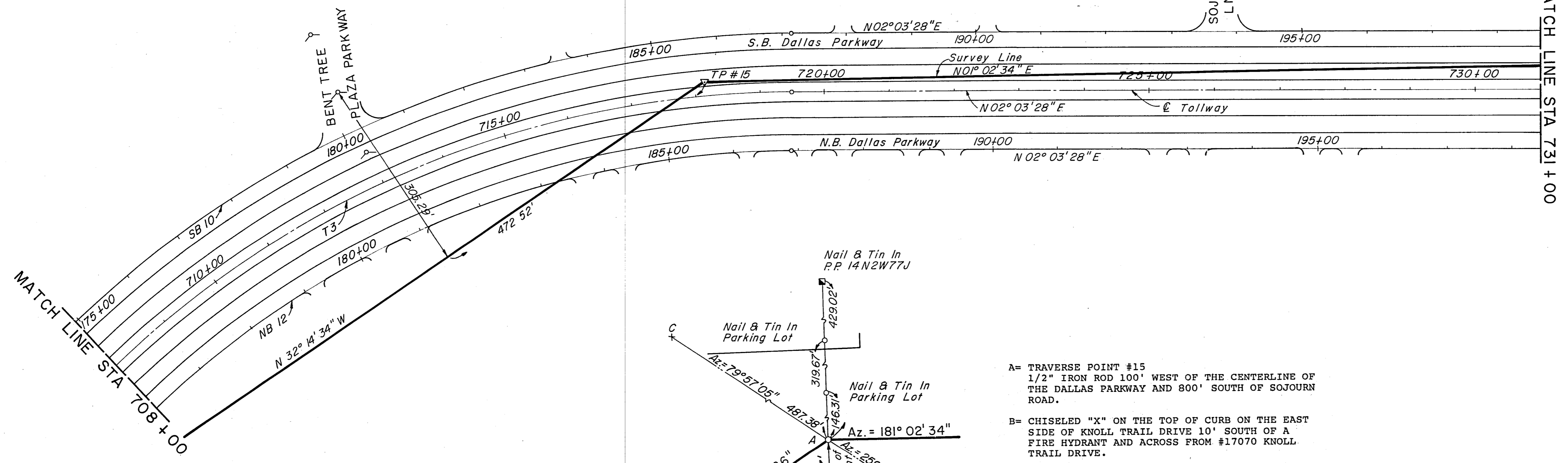
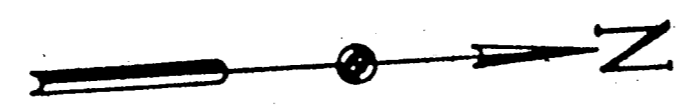
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
GEOMETRIC CONTROLS & TRAVERSE TIES STA 638 + 50 TO STA 685 + 00			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION
DRAWN	AELT	DATE	7/3/84
CHECKED	REF	DATE	7/18/84
		DESIGNED	DWC
		SCALE	1"=100'
CONTRACT NO. DNT-115 SHEET C1			

NOTES:
 1. Refer to plan-profile sheets for additional alignment details.



- A= TRAVERSE POINT #14
1/2" IRON ROD SET 60' WEST OF DALLAS PARKWAY AND OPPOSITE BUILDING 100 & 200 OF #16970 DALLAS PARKWAY.
- B= CHISELED "X" ON THE TOP OF CURB ON THE S.E. CORNER OF PARKING LOT AT THE CORNER OF ADDISON ROAD AND SIR LANCELOT AT #16775 ADDISON ROAD.
- C= CHISELED "X" ON THE TOP OF CURB 10' EAST OF THE S.W. CORNER OF A PARKING LOT FOR THE POLITICAL RESEARCH INC. BUILDING AT #16850 DALLAS PARKWAY.

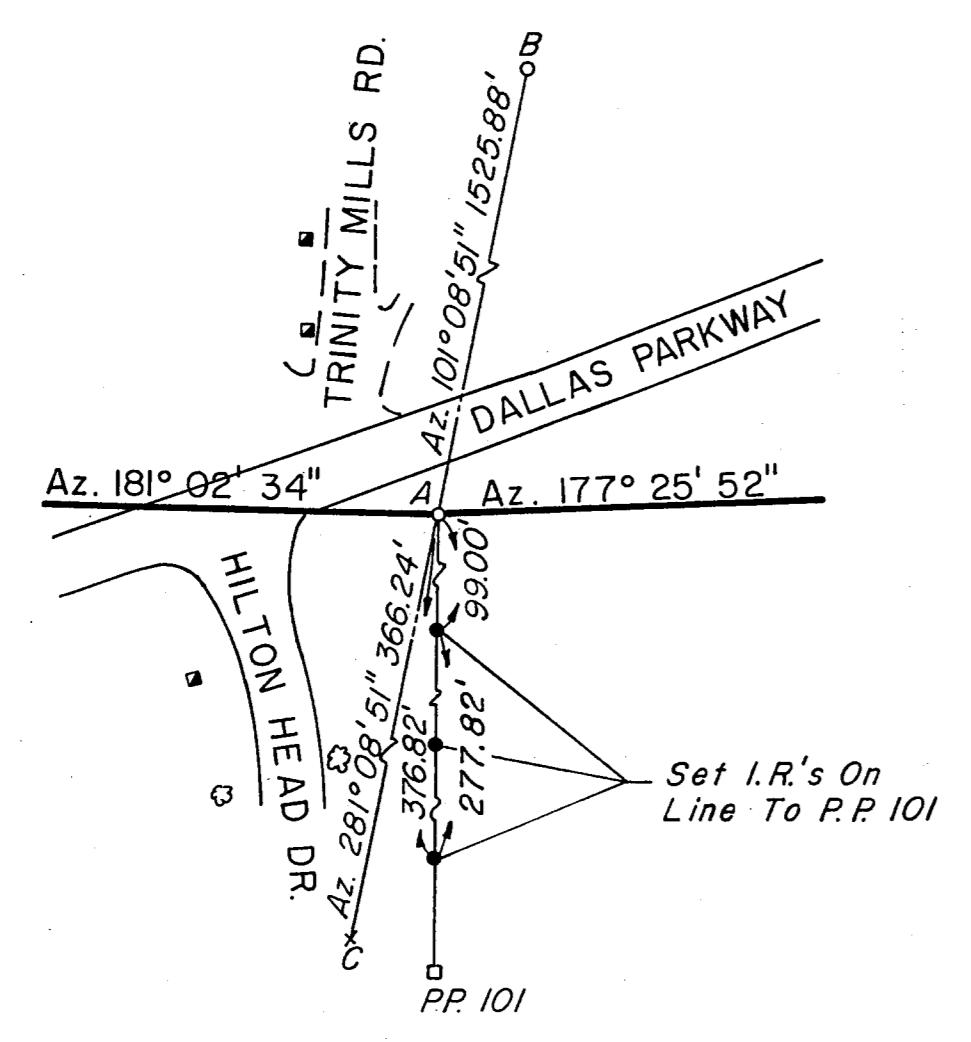
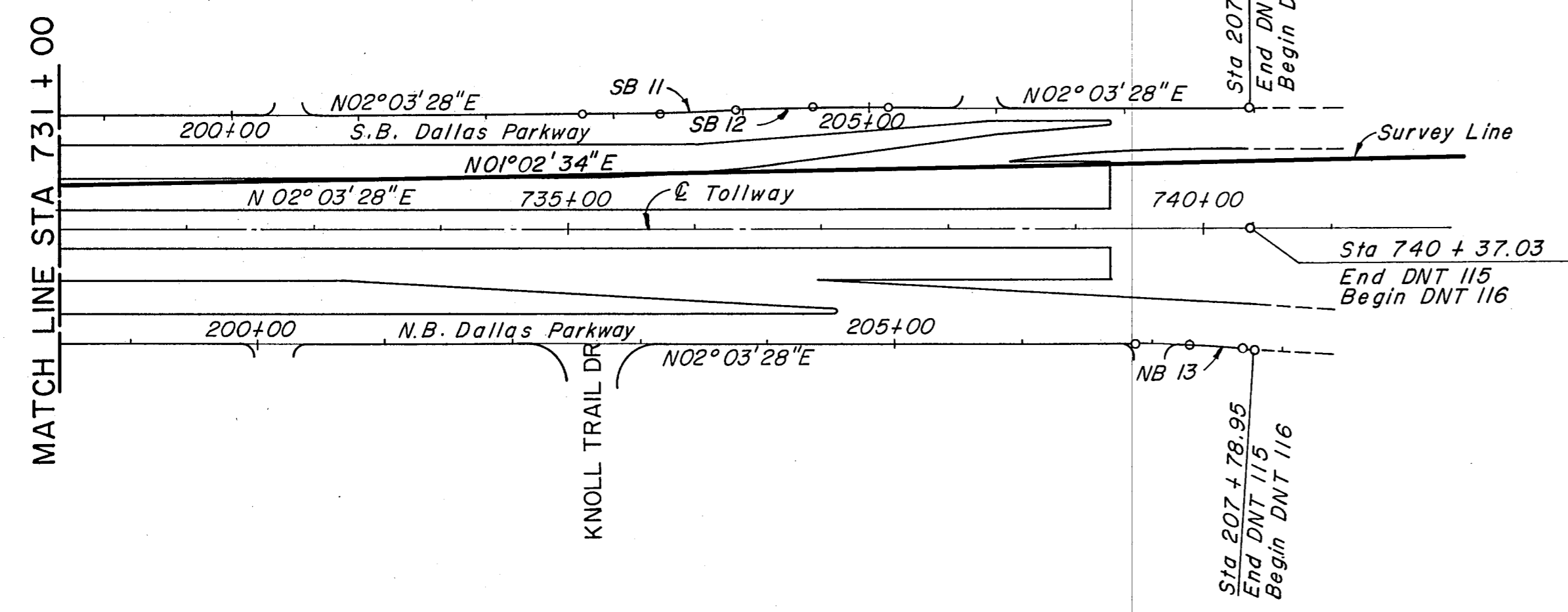
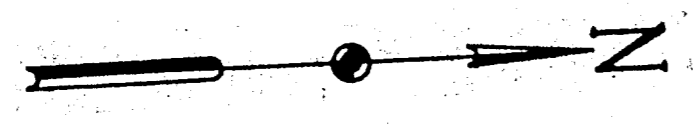
TRAVERSE PT. #14
 N 477539.623
 E 2206693.948



- A= TRAVERSE POINT #15
1/2" IRON ROD 100' WEST OF THE CENTERLINE OF THE DALLAS PARKWAY AND 800' SOUTH OF SOJOURN ROAD.
- B= CHISELED "X" ON THE TOP OF CURB ON THE EAST SIDE OF KNOLL TRAIL DRIVE 10' SOUTH OF A FIRE HYDRANT AND ACROSS FROM #17070 KNOLL TRAIL DRIVE.
- C= CHISELED "X" ON THE TOP OF CURB ON THE WEST SIDE OF ADDISON ROAD AT #16835 ADDISON ROAD.

TRAVERSE PT. #15
 N 478799.664
 E 2205899.146

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
GEOMETRIC CONTROLS & TRAVERSE TIES STA 685 + 00 TO STA 731 + 00			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN	VER	DATE 7/3/84	DESIGNED
CHECKED	REF	DATE 7/19/84	SCALE 1"=100'
CONTRACT NO. DNT-115 SHEET C2 OF C3			

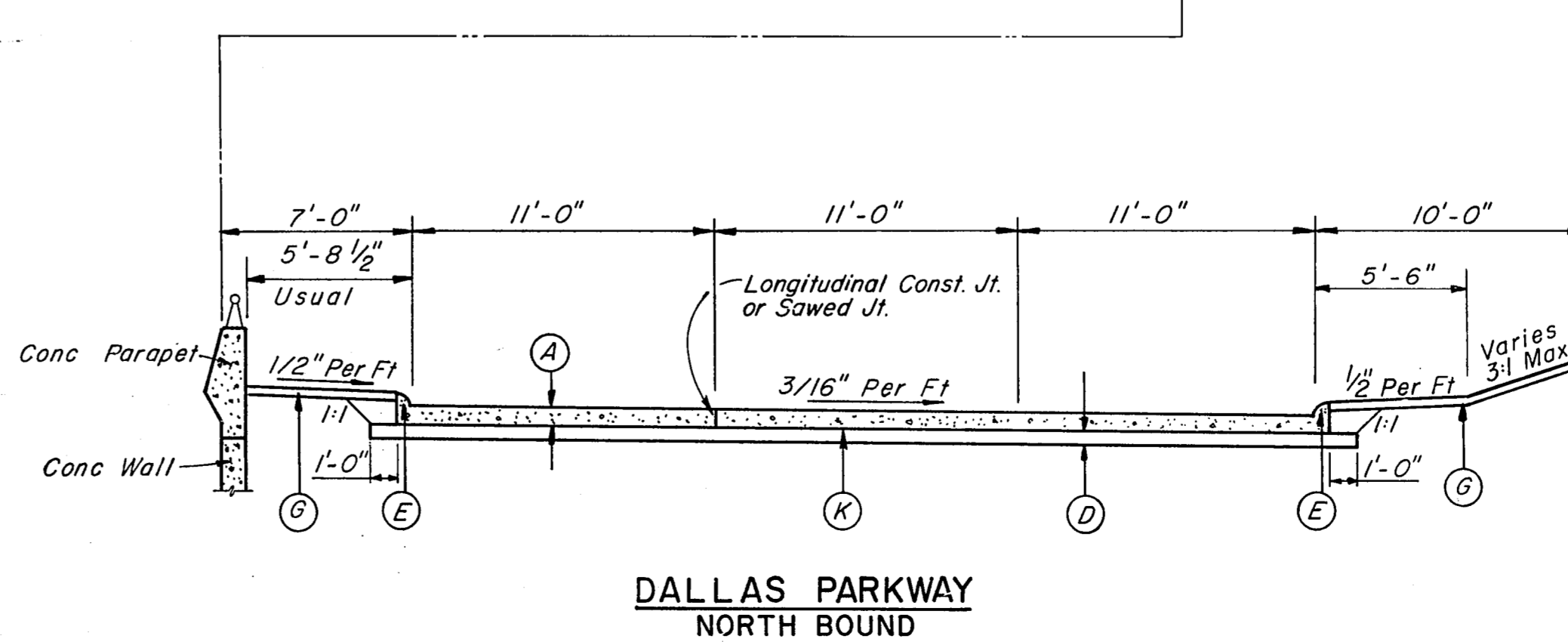
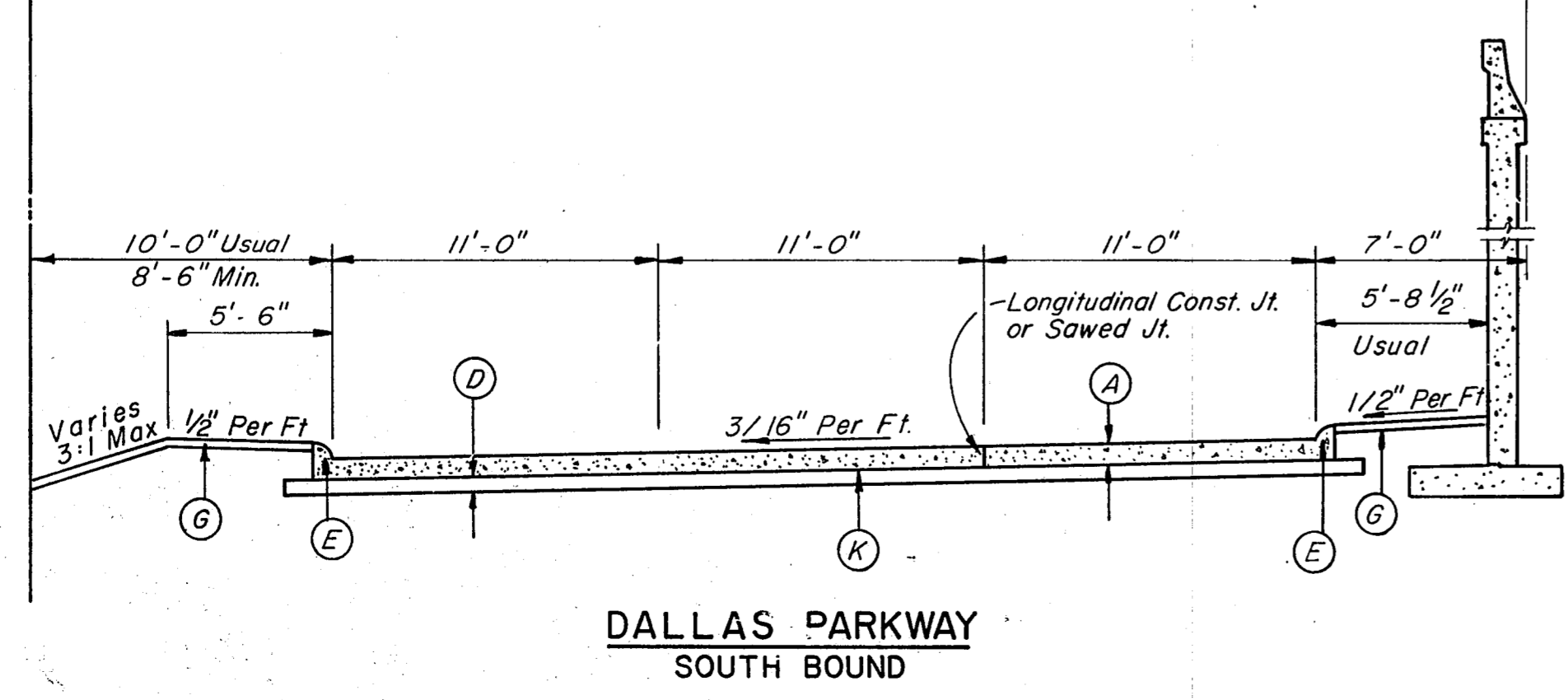
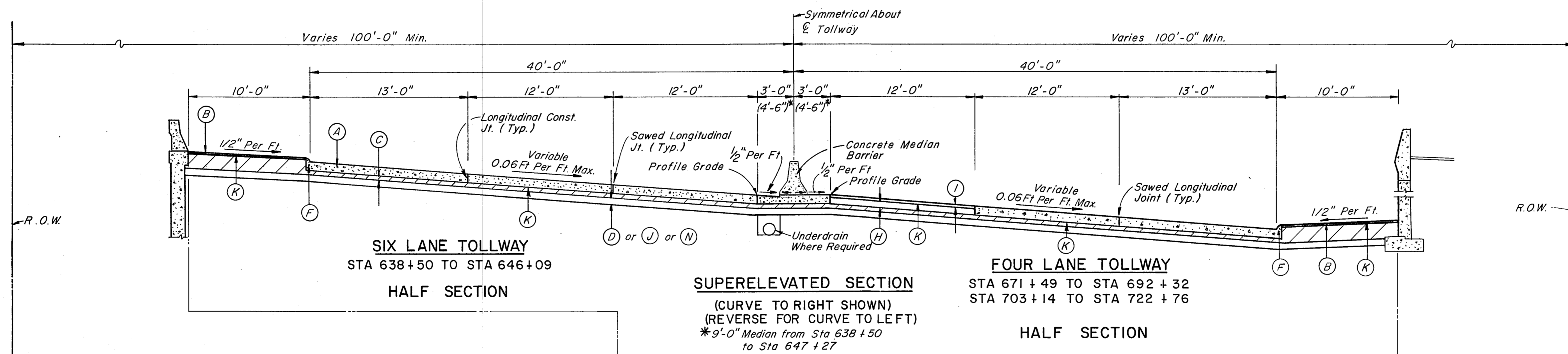
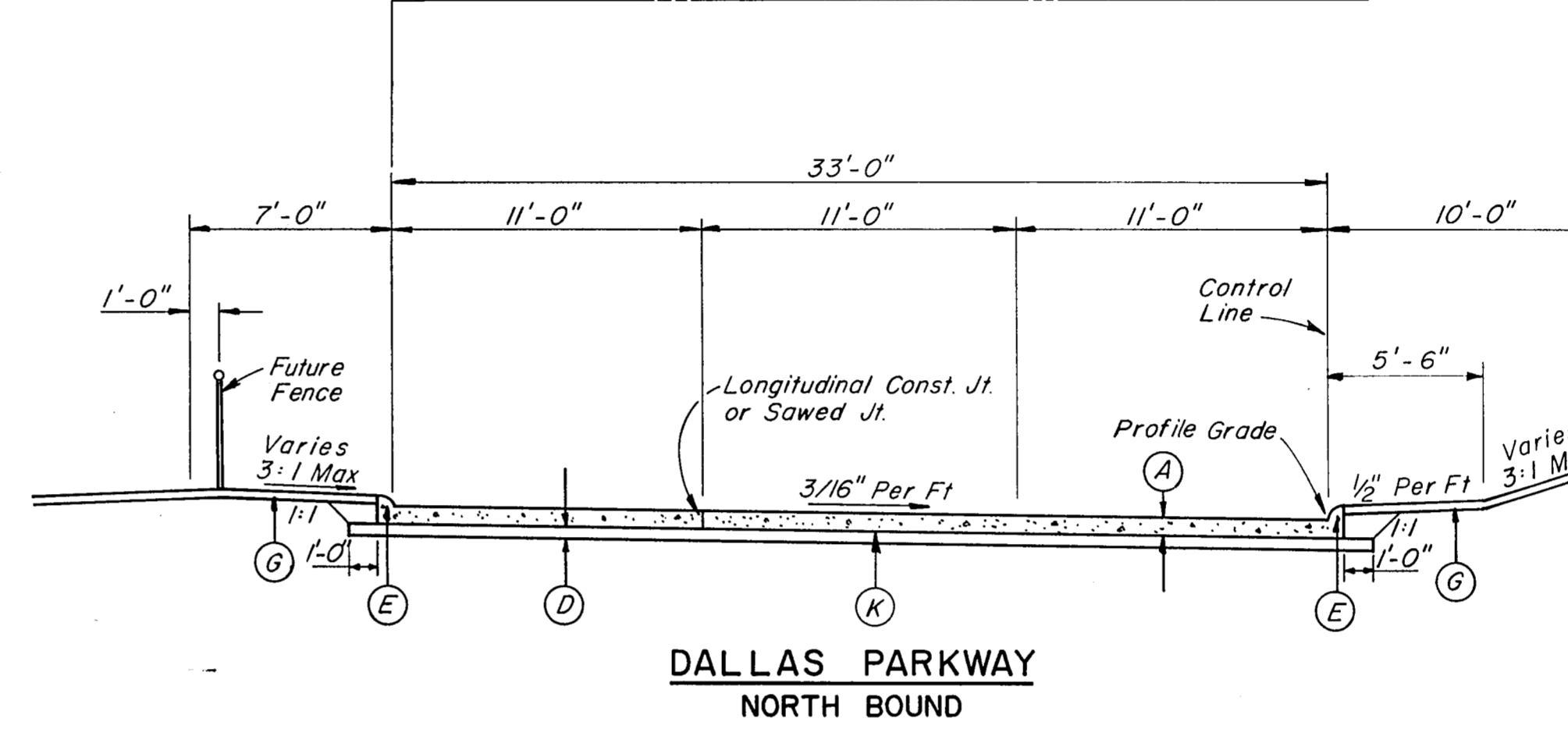
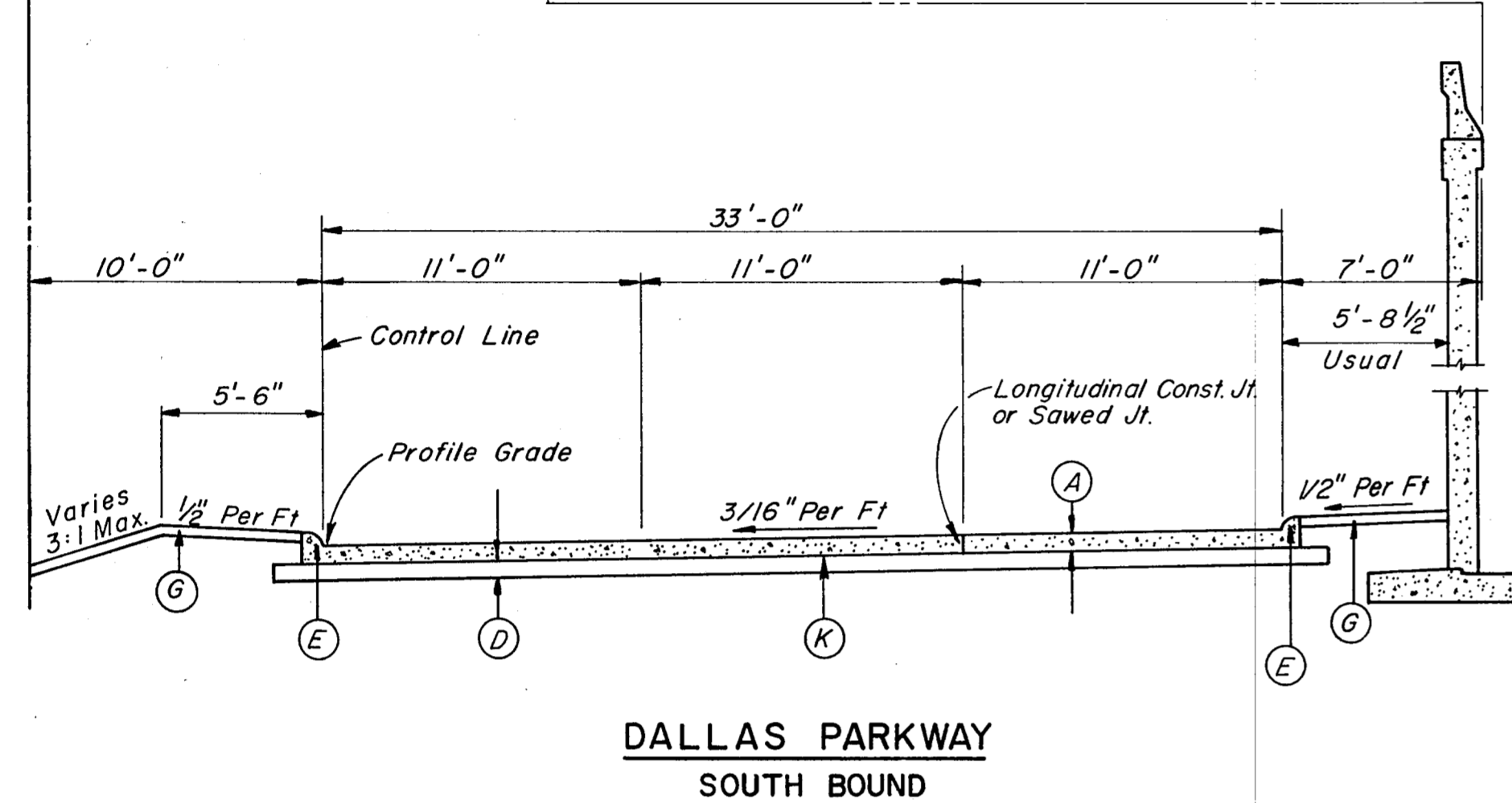
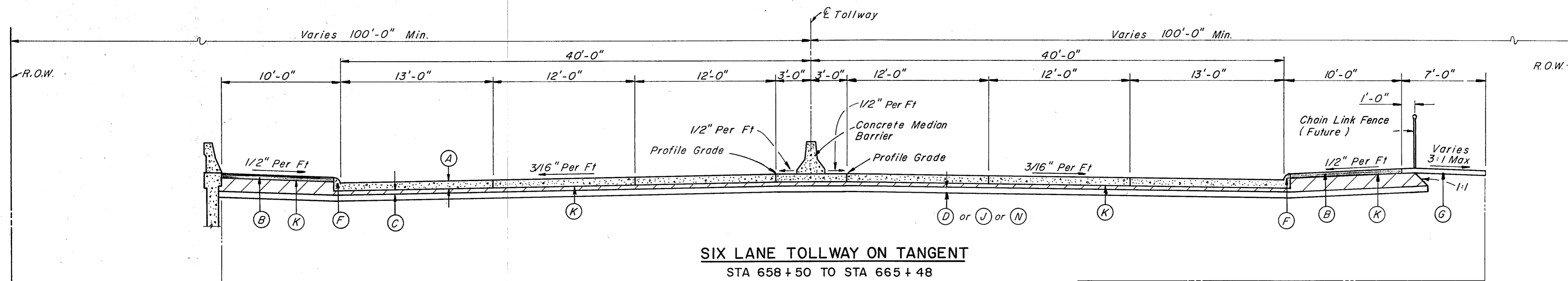


- A= TRAVERSE POINT #16
1/2" IRON ROD SET 30' EAST OF THE CENTERLINE OF THE DALLAS PARKWAY AND 85' NORTH OF THE CENTERLINE OF HILTON HEAD DRIVE.
- B= 1/2" IRON ROD SET 1' SOUTH, 75' WEST OF CORNER OF BRICK WALL AND 75' WEST OF P.P. 15N 2W 203 AND 75' NORTH OF THE CENTERLINE OF TRINITY MILLS ROAD.
- C= CHISELED "X" ON THE TOP OF CURB IN THE SOUTH SIDE OF HILTON HEAD DRIVE 390' EAST OF THE CENTERLINE OF DALLAS PARKWAY AND AT #17440 DALLAS PARKWAY.

TRAVERSE PT. #16
 N 481597.031
 E 2205950.066

NOTES:
 1. Refer to plan-profile sheets for additional alignment details.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
GEOMETRIC CONTROLS & TRAVERSE TIES STA 731 + 00 TO STA 740 + 37			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN	VER	DATE	7/5/84
CHECKED	REF	DATE	7/15/84
DESIGNED	DWC	DATE	6/29/84
		SCALE	1" = 100'
CONTRACT NO. DNT-115 SHEET C3 OF C3			



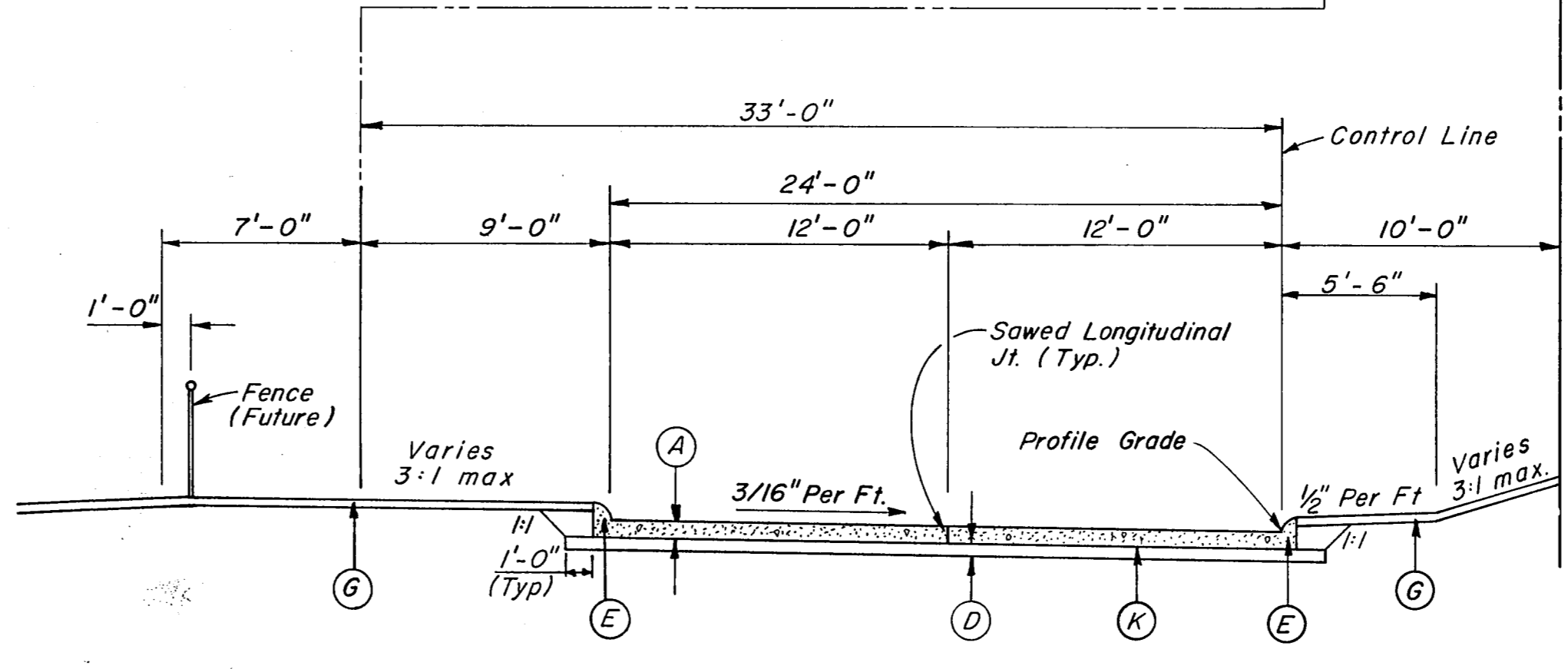
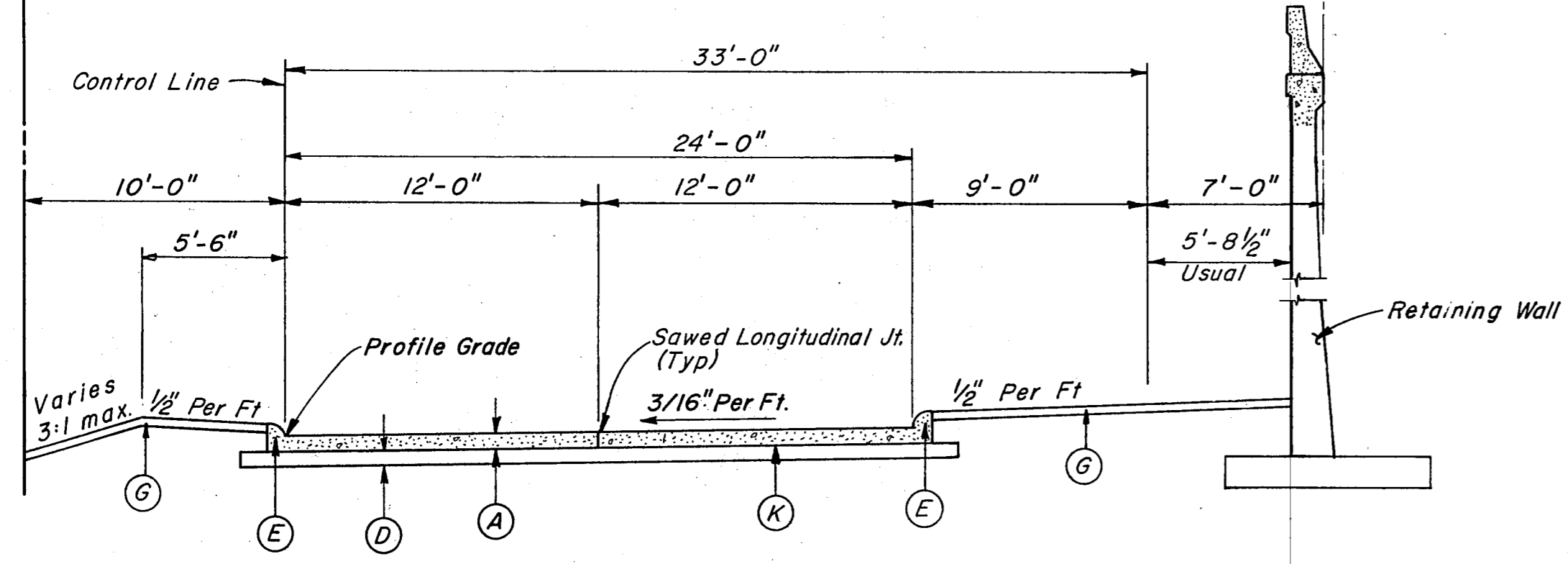
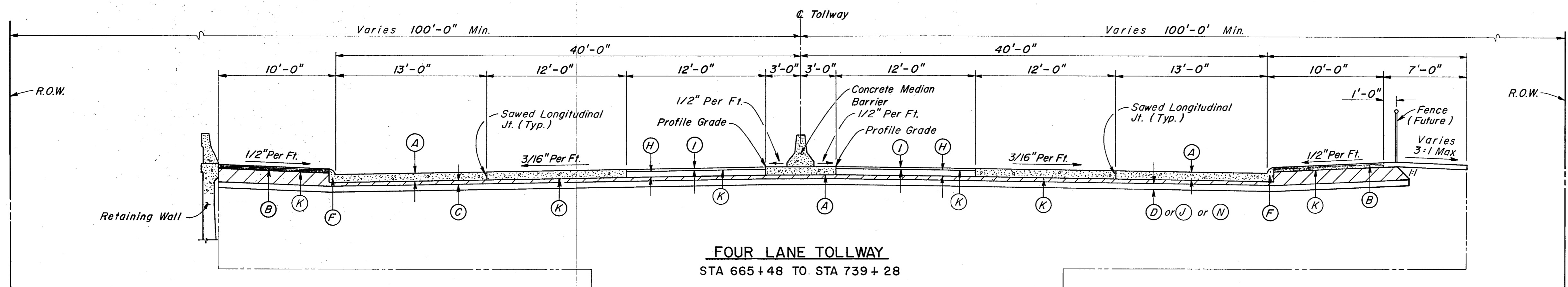
- NOTES:**
1. See Plan-Profile sheets for locations of pavement cross slope transitions and super-elevation.
 2. See Plan-Profile sheets and paving plans for pavement width transitions.
 3. See Standard Drawing No. 12 for Tollway pavement joint locations and details.
 4. See Standard Drawing No. 15 for Dallas Parkway pavement joint locations and details.
 5. Use MS-1 when ambient temperature is above 70° F and use SS-1 when ambient temperature is less than 70° F.

LEGEND

- (A) Concrete Pavement (Water Cement Ratio) 8 in.
- (B) Hot Mix Asphaltic Concrete Pavement (Type D) 2 in.
- (C) Soil Cement Base 4 in (Density Control)
- (D) Lime Treated Subgrade (Density Control) 6 in.
- (E) Monolithic Curb (Type A) (6 in.)
- (F) Monolithic Curb (Type M) (4 in.)
- (G) 4" Topsoil & Broadcast Seeding (Type A)
- (H) Flexible Base (Delivered) (Type A, Class 4) (Density Control) 7 1/2 in.
- (I) Two Course Surface Treatment
- (J) Rock Undercut Backfilled with Flexible Base (Delivered) (Type A, Class 4) (Density Control) 6 in.
- (K) Emulsified Asphalt Treatment (See Note 5)
- (N) Borrow (Delivered) (Type C) (Class 3) (Density Control) (3 Ft Depth) for Tollway Embankments in excess of 3 Ft Height.

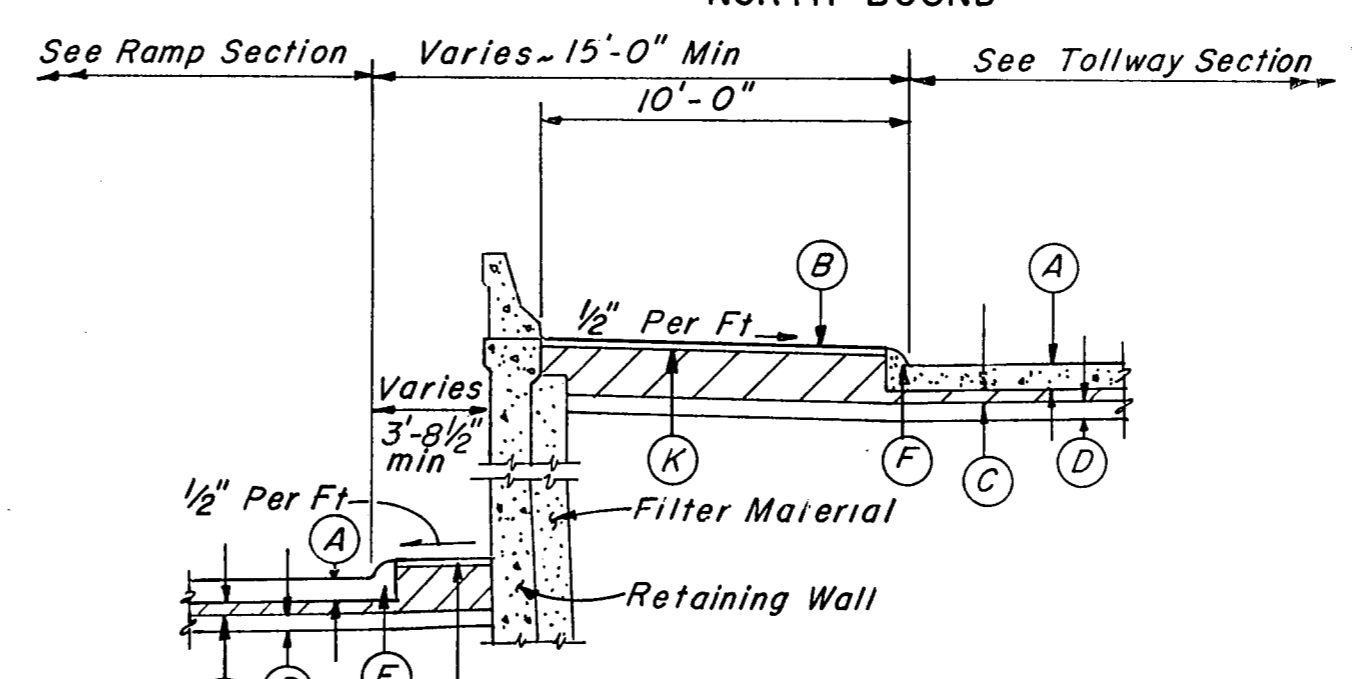
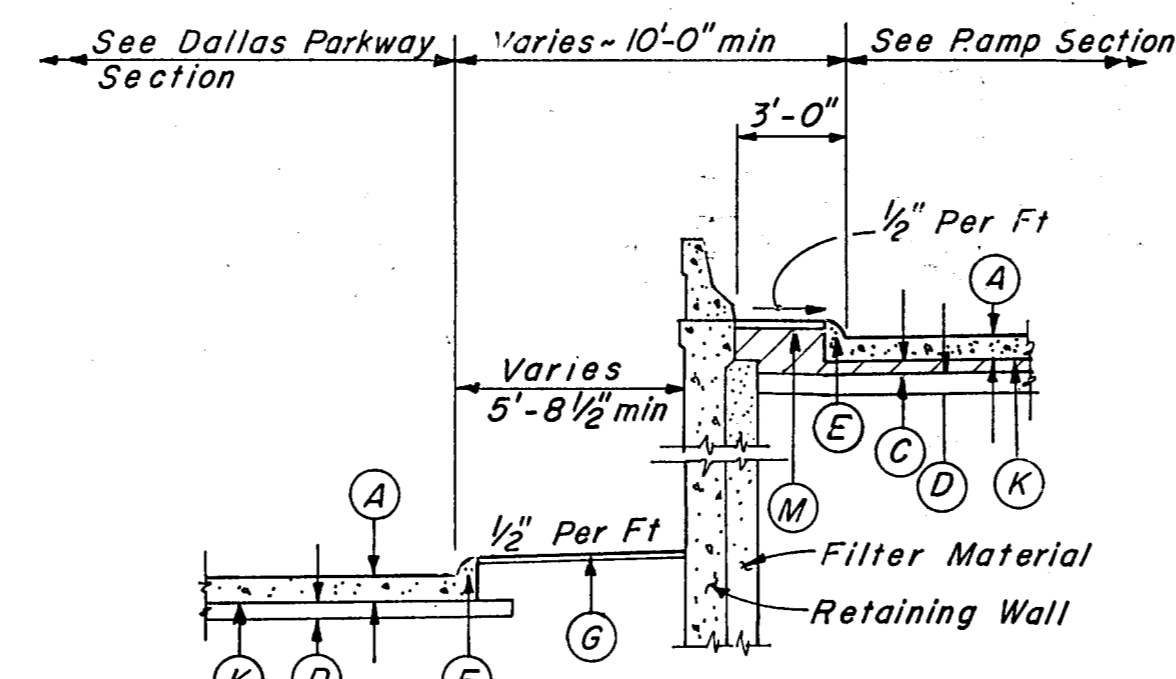
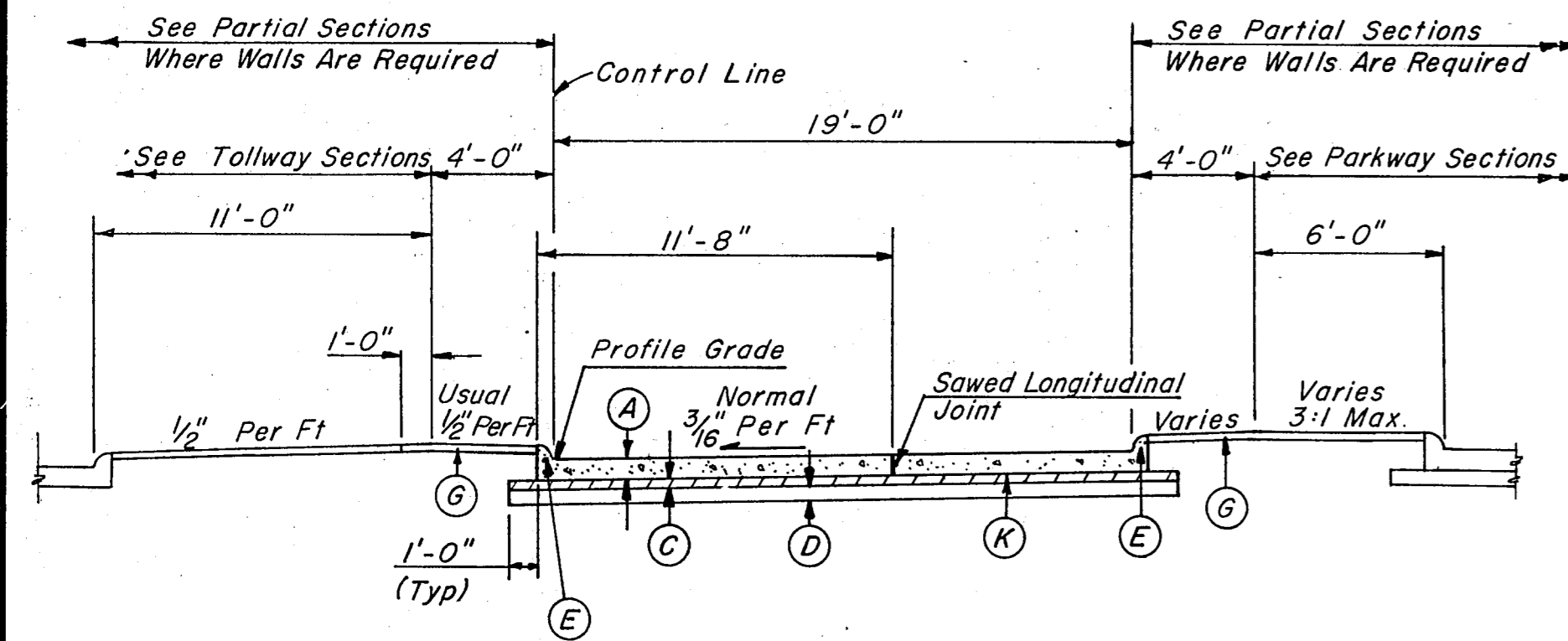
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
TYPICAL SECTIONS			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN	VER	DATE	7-22-83
DESIGNED	DWC	DATE	7-22-83
CHECKED	DWC	DATE	3-30-84
SCALE	3/16" = 1'-0"		
CONTRACT NO. DNT-115 SHEET R1 OF R85			

NOTE:
1. See Sheet R1 for notes.

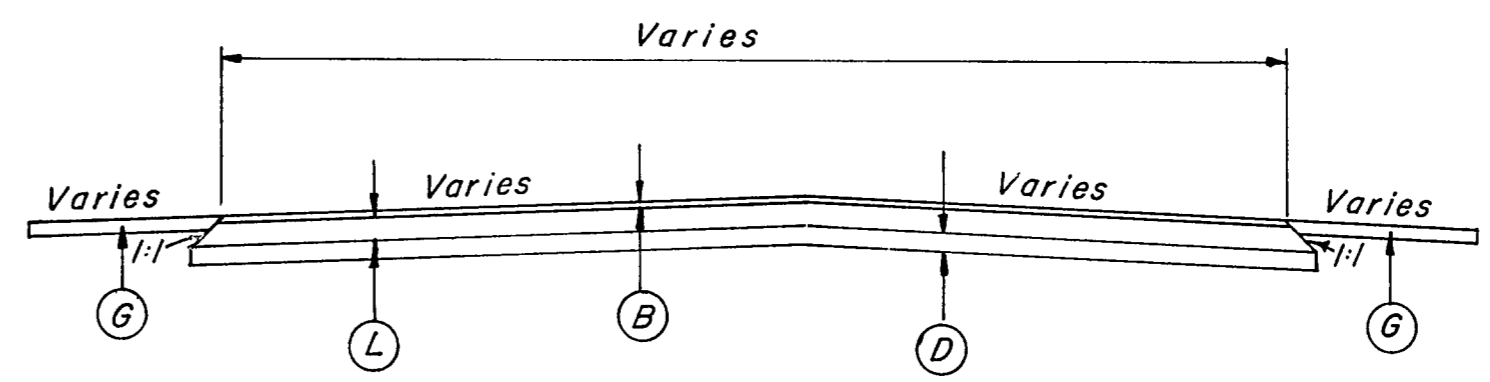
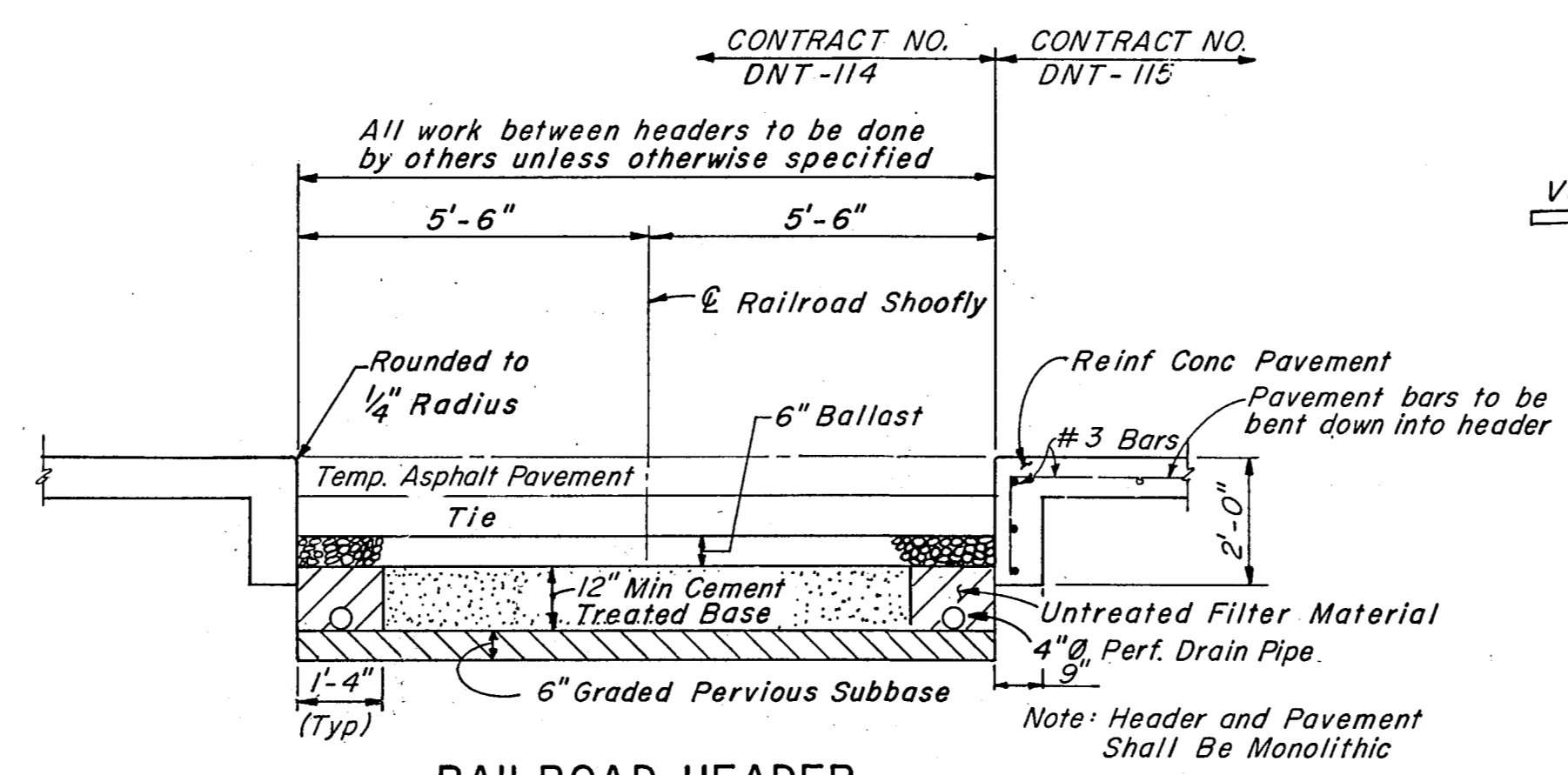


LEGEND

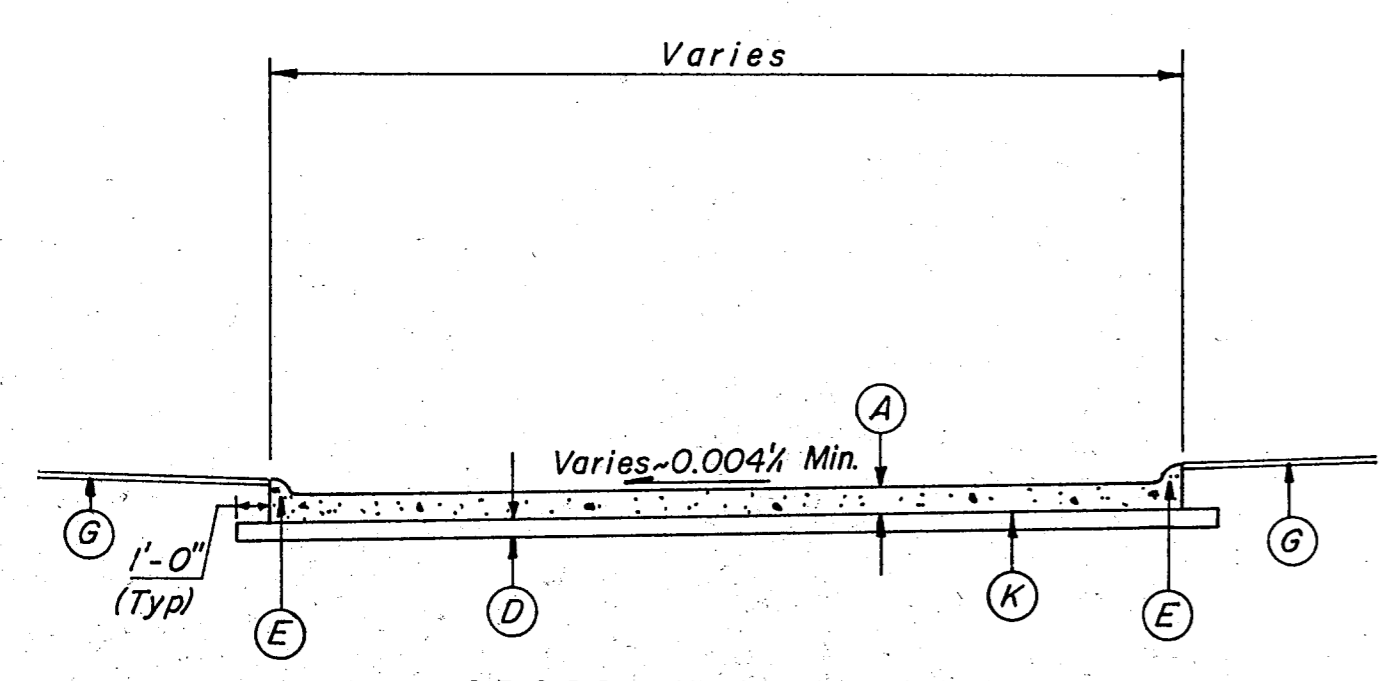
- (A) Concrete Pavement (Water Cement Ratio) 8 in.
- (B) Hot Mix Asphaltic Concrete Pavement (Type D) 2 in.
- (C) Soil Cement Base 4 in. (Density Control)
- (D) Lime Treated Subgrade (Density Control) 6 in.
- (E) Monolithic Curb (Type A) (6 in.)
- (F) Monolithic Curb (Type M) (4 in.)
- (G) 4" Topsoil & Broadcast Seeding (Type 4)
- (H) Flexible Base (Delivered) (Type A, Class 4) (Density Control) 7 1/2 in.
- (I) Two Course Surface Treatment
- (J) Rock Undercut Backfilled with Flexible Base (Delivered) (Type A, Class 4) (Density Control) 6 in.
- (K) Emulsified Asphalt Treatment (See Note 5, Sheet R1)
- (L) 8" Asphaltic Concrete Base to be Placed in Three Equal Lifts.
- (M) Concrete Median Pavement 4 in.
- (N) Borrow (Delivered) (Type C) (Class 3) (Density Control) (3 Ft Depth) for Tollway Embankments in Excess of 3 Ft Height.



PARTIAL SECTIONS FOR RETAINING WALL



This Section Shown for Type of Pavement and Subgrade Only. See Paving Plan Sheets for Dimensions and Elevations.



(This Section Shown For Type Of Pavement And Subgrade Only. For All Dimensions, Elevations & Joints See Paving Plan Sheets.)

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
TYPICAL SECTIONS			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN AELT	DATE 7-22-83	DESIGNED DWG	DATE 7-22-83
CHECKED DWG	DATE 5-01-84	SCALE 3/16" = 1'-0"	
CONTRACT NO. DNT-115 SHEET R2 OF R85			

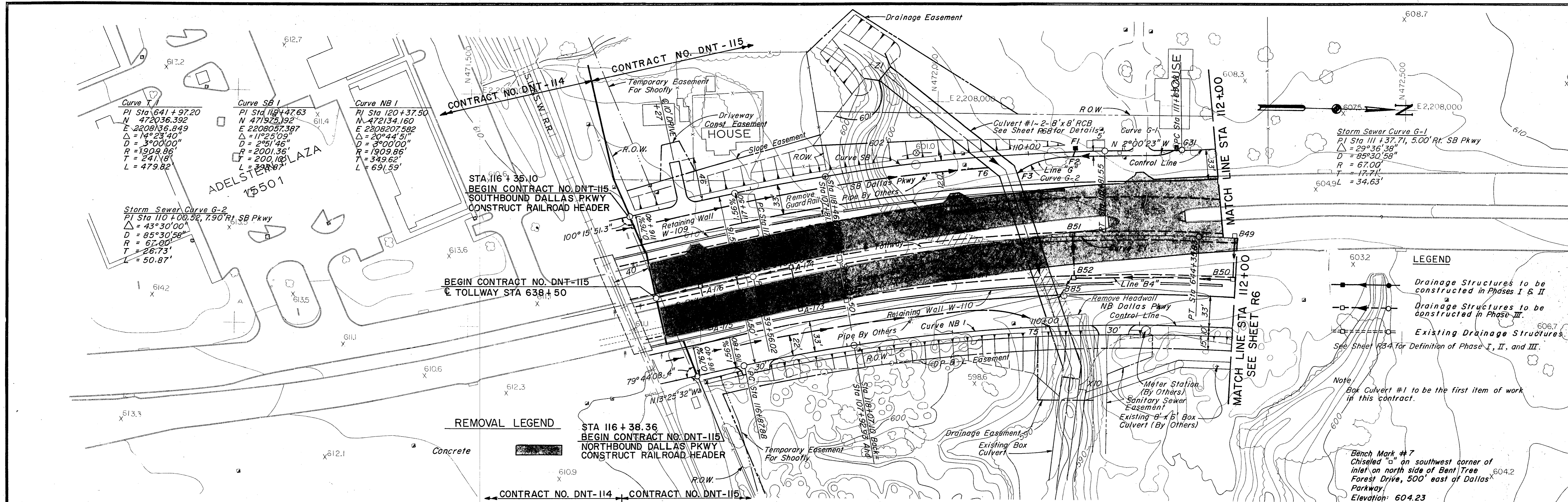
ESTIMATED QUANTITIES

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	TOTAL	
			ESTIMATED	FINAL
100 SP	PREPARING RIGHT-OF-WAY	STA	102	
104	REMOVING OLD CONCRETE (PAVEMENT)	SY	13000	
104	REMOVING OLD CONCRETE (SIDEWALK AND MEDIAN PAVEMENT)	SY	20	
104	REMOVING OLD CONCRETE (CURB AND GUTTER)	LF	350	
110 SP	ROADWAY EXCAVATION (DENSITY CONTROL)	CY	87000	
120	CHANNEL EXCAVATION (DENSITY CONTROL)	CY	470	
131 SP	BORROW (DELIVERED)(TYPE B)(CLASS 3)(DENSITY CONTROL)(SHAPE AND COMPACT ONLY)	CY	13540	
131 SP	BORROW (DELIVERED)(TYPE C)(CLASS 3)(DENSITY CONTROL)	CY	40000	
160 SP	SALVAGING, FURNISHING & PLACING TOPSOIL	SY	217000	
164 SP	BROADCAST SEEDING	SY	217000	
166 SP	FERTILIZER	TON	3	
169	SOIL RETENTION BLANKET	SY	500	
249 SP	FLEXIBLE BASE (DELIVERED)(TYPE A, CLASS 4)(DENSITY CONTROL)(6")	SY	4440	
249 SP	FLEXIBLE BASE (DELIVERED)(TYPE A, CLASS 4)(DENSITY CONTROL)(7½")	SY	19000	
260 SP	LIME TREATED SUBGRADE (DENSITY CONTROL)	SY	185500	
260 SP	LIME (TYPE "A" SLURRY)(6%)	TON	2755	
274 SP	CEMENT STABILIZED BASE (DENSITY CONTROL)	SY	125000	
314 SP	EMULSIFIED ASPHALT TREATMENT	GAL	31300	
322	ASPHALT (AC-10 OR CRS-2)	GAL	10500	
322	AGGREGATE (TYPE B, GRADE 3)(FIRST COURSE)	CY	240	
322	AGGREGATE (TYPE PB GRADE 3, OR LIGHT WEIGHT GRADE 3)(SECOND COURSE)	CY	190	
340 SP	HOT MIX ASPHALTIC CONCRETE PAVEMENT (TYPE D)(2")	SY	18000	
340 SP	HOT MIX ASPHALTIC CONCRETE PAVEMENT (TYPE A)	TON	355	
340 SP	HOT MIX ASPHALTIC CONCRETE PAVEMENT (TYPE D) (DRIVEWAYS & DETOURS)	TON	840	
340 SP	HOT MIX ASPHALTIC CONCRETE PAVEMENT (TYPE A) (DRIVEWAYS & DETOURS)	TON	1650	
360 SP	CONCRETE PAVEMENT (W-C RATIO)(8")	SY	147200	
360 SP	MONOLITHIC CURB TYPE A (6")	LF	41300	
360 SP	MONOLITHIC CURB TYPE M (4")	LF	14200	
416 SP	DRILLED SHAFT 30" DIA.	LF	395	
416 SP	DRILLED SHAFT 42" DIA.	LF	292	
421 SP	CLASS "C" CONCRETE (ABUTMENT)	CY	235	
421 SP	CLASS "C" CONCRETE (BENT)	CY	314	
422 SP	REINFORCED CONCRETE SLAB	SF	45140	
423 SP	RETAINING WALL (CAST IN PLACE)	SF	10670	
423 SP	RETAINING WALL (OPTIONAL)	SF	113350	
425 SP	PRESTRESSED CONCRETE BEAMS (TYPE C)	LF	6850	
432	CONCRETE RIPRAP (CLASS B)	CY	230	
436 SP	PREFORMED JOINT STEEL (2")	LF	400	
440 SP	REINFORCING STEEL	LBS	145150	
442 SP	STRUCTURAL STEEL (HYC)(ARMOR JOINT)	LBS	10850	
444 SP	BRIDGE PROTECTIVE ASSEMBLY	EA	8	
450 SP	TRAFFIC RAIL, TYPE T5	LF	7360	
450 SP	RAILING (WALL) PARAPET ONLY	LF	1110	
462 SP	CONCRETE BOX CULVERT (MC8-3)(8'x8')	LF	445	
462 SP	CONCRETE BOX CULVERT (SPECIAL) MC8(A)(8'x8')	LF	210	
462 SP	CONCRETE BOX CULVERT (SPECIAL) MC8(B)(8'x8')	LF	140	
462 SP	CONCRETE BOX CULVERT (MC10-2)(10'x6')	LF	339	
462 SP	CONCRETE BOX CULVERT (MC10-3)(10'x6')	LF	137	
462 SP	CONCRETE BOX CULVERT (SPECIAL MC10)(10'x6')	LF	264	

ITEM NO.	DESCRIPTION	UNIT	TOTAL	
			ESTIMATED	FINAL
462 SP	PRECAST CONCRETE BOX CULVERT (10'x6')	LF	1110	
465 SP	PIPE SEWERS (15" RCP)(CL 111)	LF	8176	
465 SP	PIPE SEWERS (18" RCP)(CL 111)	LF	6070	
465 SP	PIPE SEWERS (21" RCP)(CL 111)	LF	3700	
465 SP	PIPE SEWERS (24" RCP)(CL 111)	LF	1940	
465 SP	PIPE SEWERS (27" RCP)(CL 111)	LF	910	
465 SP	PIPE SEWERS (30" RCP)(CL 111)	LF	1800	
465 SP	PIPE SEWERS (33" RCP)(CL 111)	LF	1510	
465 SP	PIPE SEWERS (36" RCP)(CL 111)	LF	1150	
465 SP	PIPE SEWERS (39" RCP)(CL 111)	LF	29	
465 SP	PIPE SEWERS (42" RCP)(CL 111)	LF	2800	
465 SP	PIPE SEWERS (48" RCP)(CL 111)	LF	950	
465 SP	PIPE SEWERS (54" RCP)(CL 111)	LF	140	
465 SP	PIPE SEWERS (60" RCP)(CL 111)	LF	1174	
465 SP	PIPE SEWERS (66" RCP)(CL 111)	LF	1040	
465 SP	PIPE SEWERS (72" RCP)(CL 111)	LF	447	
470 SP	MANHOLE, TYPE I(0-8 FT DEPTH)	EA	1	
470 SP	MANHOLE, TYPE I(8-12 FT DEPTH)	EA	2	
470 SP	MANHOLE, TYPE II(0-8 FT DEPTH)	EA	5	
470 SP	MANHOLE, TYPE II(8-12 FT DEPTH)	EA	6	
470 SP	MANHOLE, TYPE III(0-12 FT DEPTH)	EA	17	
470 SP	MANHOLE, SPECIAL	EA	1	
470 SP	MANHOLE, SPECIAL (JUNCTION BOX)	EA	1	
470 SP	INLET, TYPE "CDR"(5')	EA	74	
470 SP	INLET, TYPE "CDR"(10')	EA	30	
470 SP	INLET, TYPE "CDR"(14')	EA	4	
470 SP	INLET, TYPE "CD"(5')	EA	3	
470 SP	INLET, TYPE "CD"(10')	EA	4	
470 SP	INLET, TYPE "CD"(14')	EA	2	
470 SP	INLET, TYPE "C"(3')	EA	108	
470 SP	INLET, TYPE "C"(6')	EA	48	
470 SP	INLET, TYPE "C"(8')	EA	13	
470 SP	INLET, TYPE "C"(10')	EA	2	
470 SP	INLET, TYPE "C"(12')	EA	1	
470 SP	INLET, TYPE "G"	EA	1	
470 SP	TYPE "M" INLET (1 GRATE)	EA	2	
470 SP	TYPE "M" INLET (2 GRATE)	EA	14	
470 SP	TYPE "M" INLET (3 GRATE)	EA	5	
470 SP	TYPE "Y" INLET, STANDARD	EA	7	
474	SLOTTED DRAIN (18-INCH)	LF	135	
475 SP	CULVERT WINGWALL (MCW-F2)(H=8 FT)	EA	2	
475 SP	CULVERT WINGWALL (MCW-P45)(H=6 FT)	EA	2	
475 SP	CULVERT HEADWALL SPECIAL (30 SKEW)(72" RCP)	EA	1	
479 SP	ADJUSTING MANHOLES & INLETS	EA	1	
496 SP	REMOVING OLD STRUCTURES 2 - 8'x8' BOX CULVERT	LF	240	

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
ESTIMATED QUANTITY SUMMARY			
Gibbs & Hill, Inc.			SECTION VII
<small>ENGINEERS DESIGNERS CONSTRUCTORS DALLAS</small>			
<small>DRAWN</small> AEL	<small>DATE</small> 8/84	<small>DESIGNED</small> DWC	<small>DATE</small> 8/84
<small>CHECKED</small> DWC	<small>DATE</small> 9/84	<small>SCALE</small>	
<small>CONTRACT NO. DNT-115 SHEET R3 OF R85</small>			



LEGEND

- Drainage Structures to be constructed in Phases I & II
- Drainage Structures to be constructed in Phase III
- Existing Drainage Structures

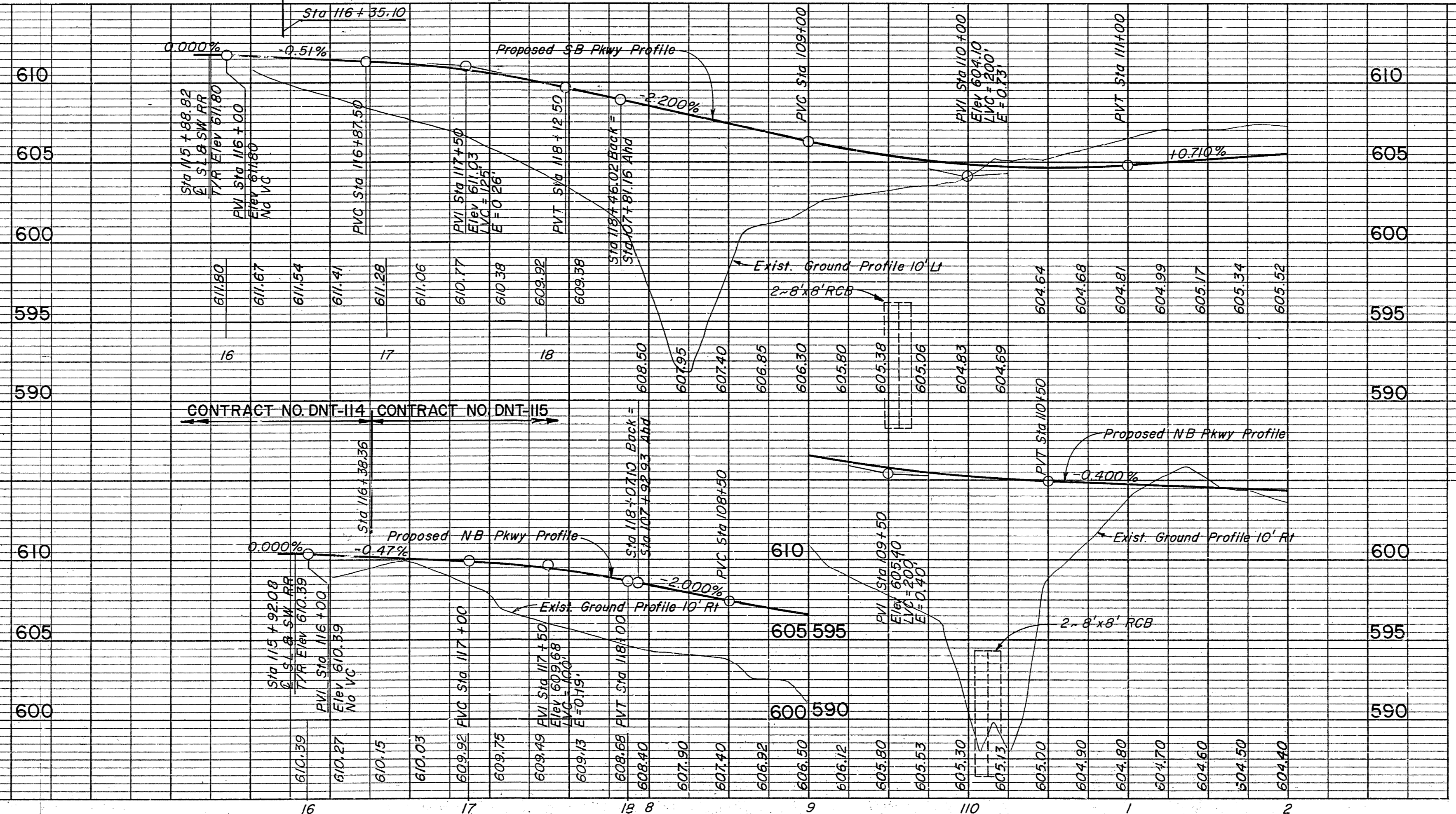
See Sheet R34 for Definition of Phase I, II, and III.

Note
Box Culvert #1 to be the first item of work in this contract.

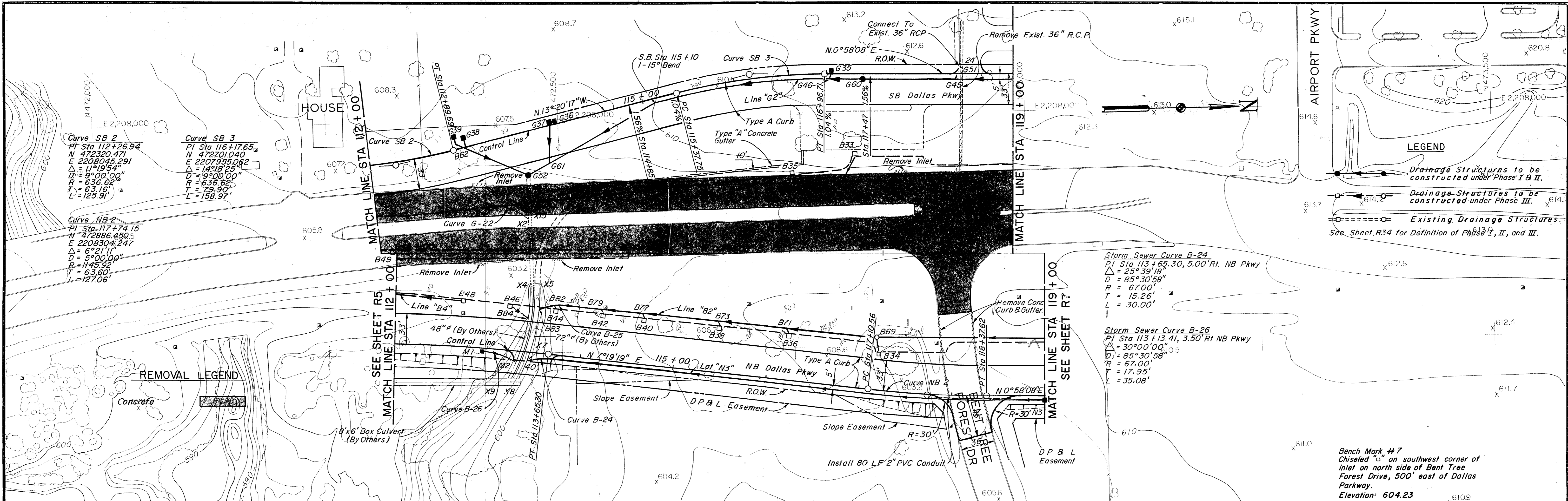
Bench Mark #7
Chiseled "a" on southwest corner of Inlet on north side of Bent Tree Forest Drive, 500' east of Dallas Parkway
Elevation: 604.23

Notes:

- See Sheet R15 for Tollway Plan & Profile.
- See Sheet R50 for Line "G" Storm Sewer Profile.
- See Sheets R68 and R69 for Box Culvert Details.
- See Sheet R2 for Railroad Header Details.
- See Cross Sections for Slopes.
- See Sheets R15 and W1 and cross sections for temporary shoring details.



NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY PAVING AND GRADING DALLAS PARKWAY STA 107+81.6 TO STA 112+00 Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			
DRAWN CJB		DATE 4/4/83	
CHECKED DWG		DATE 5/4/84	
DESIGNED DWG		DATE 4/1/83	
SCALE 1"=50' Hor		1"=5' Vert	
SECTION VII CONTRACT NO. DNT-115 SHEET R5 OF R85			



Curve SB 2
 PI Sta 112+26.94
 N 472320.471
 E 2208045.291
 $\Delta = 11^{\circ}19'54''$
 $D = 9^{\circ}00'00''$
 $R = 636.62'$
 $T = 63.16'$
 $L = 125.91'$

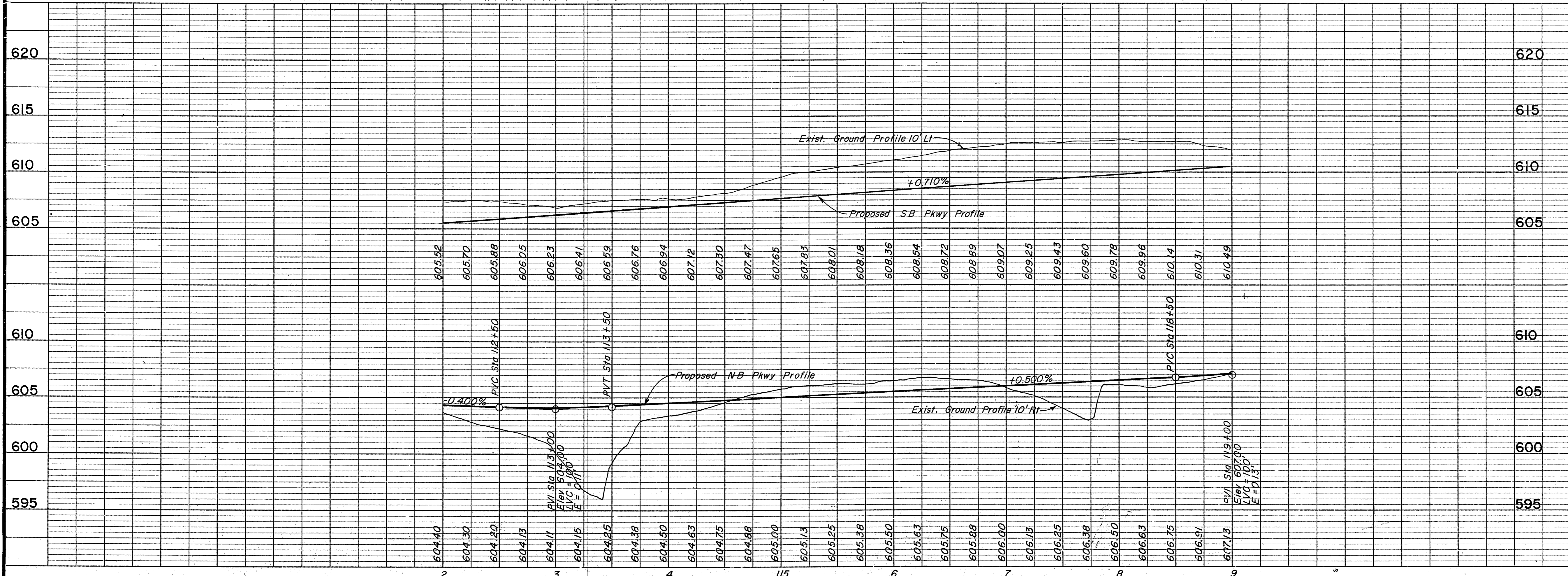
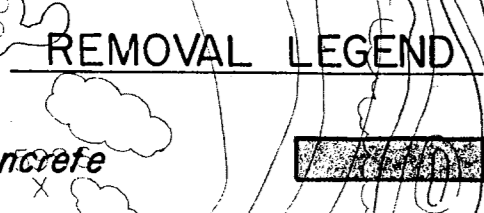
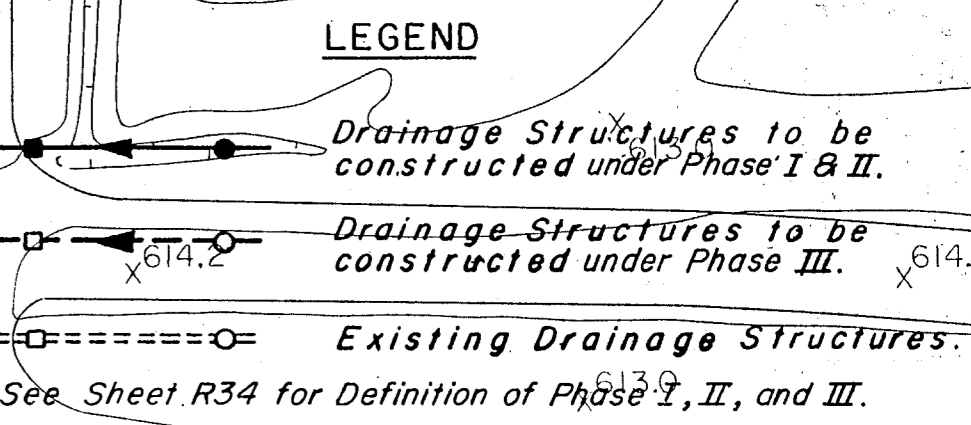
Curve SB 3
 PI Sta 116+17.65
 N 472701.040
 E 2207955.062
 $\Delta = 14^{\circ}18'25''$
 $D = 9^{\circ}00'00''$
 $R = 636.62'$
 $T = 79.90'$
 $L = 158.97'$

Curve NB 2
 PI Sta 117+74.15
 N 472886.480
 E 2208304.247
 $\Delta = 6^{\circ}21'11''$
 $D = 9^{\circ}00'00''$
 $R = 1145.92'$
 $T = 63.60'$
 $L = 127.06'$

Storm Sewer Curve B-24
 PI Sta 113+65.30, 5.00' Rt. NB Pkwy
 $\Delta = 25^{\circ}39'18''$
 $D = 85^{\circ}30'58''$
 $R = 67.00'$
 $T = 15.26'$
 $L = 30.00'$

Storm Sewer Curve B-26
 PI Sta 113+13.41, 3.50' Rt NB Pkwy
 $\Delta = 30^{\circ}00'00''$
 $D = 85^{\circ}30'58''$
 $R = 67.00'$
 $T = 17.95'$
 $L = 35.08'$

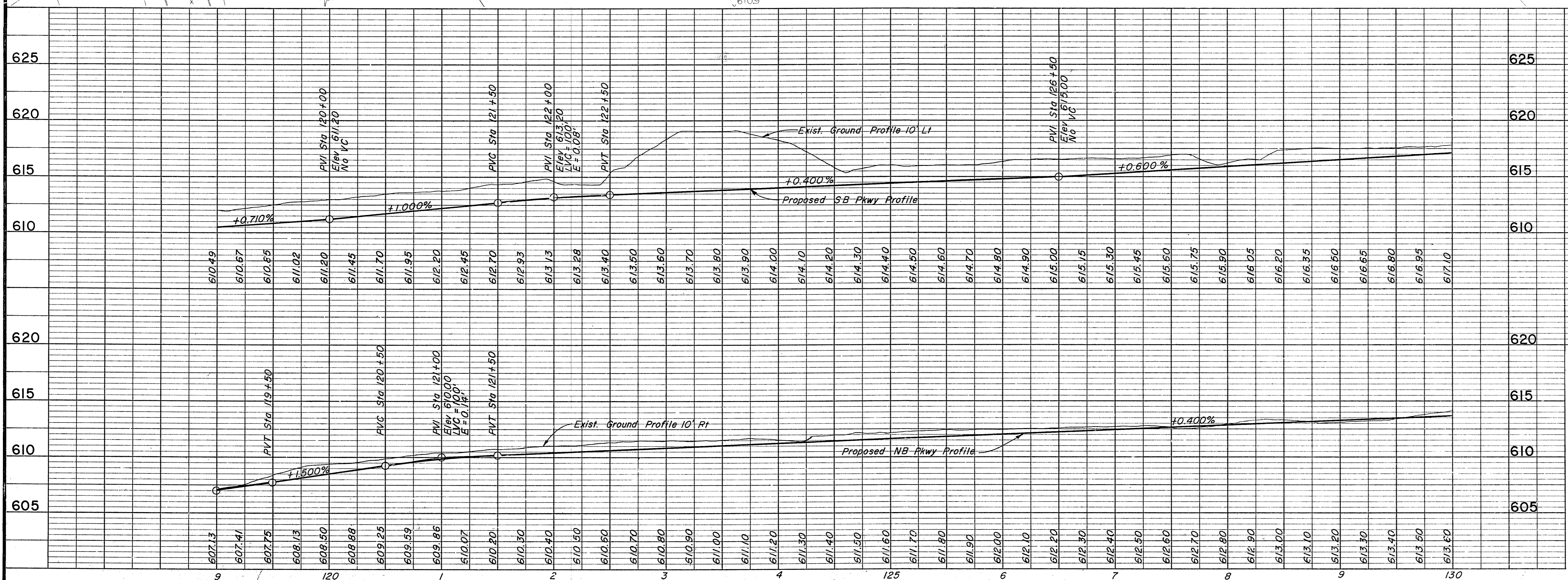
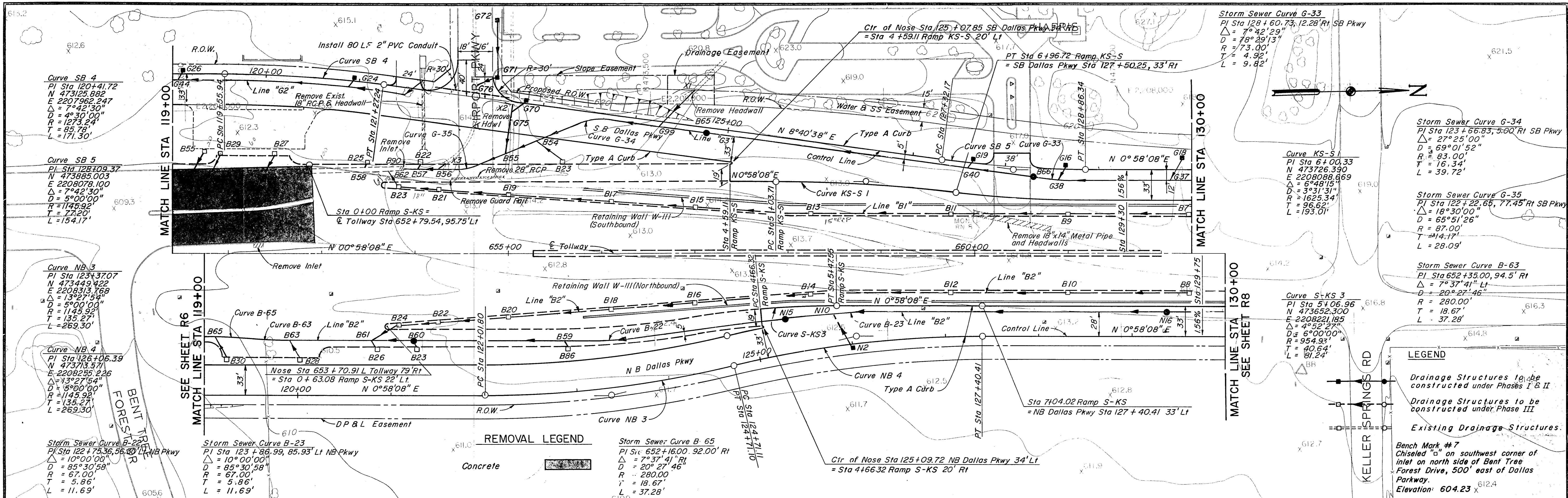
Bench Mark #7
 Chiseled "a" on southwest corner of inlet on north side of Bent Tree Forest Drive, 500' east of Dallas Parkway.
 Elevation: 604.23



- Notes**
- See Sheet R16 for Tollway Plan & Profile.
 - See Sheets R26 & R27 for Paving Plans.
 - See the following sheets for Storm Sewer Profiles:

Line	Sheet
G, G2, B4	R50
B2	R52
Lot N3, M1	R51
 - For Slopes See Cross Sections.
 - See Sheets R26 and R27 for Toll Plaza Building Project Limits.

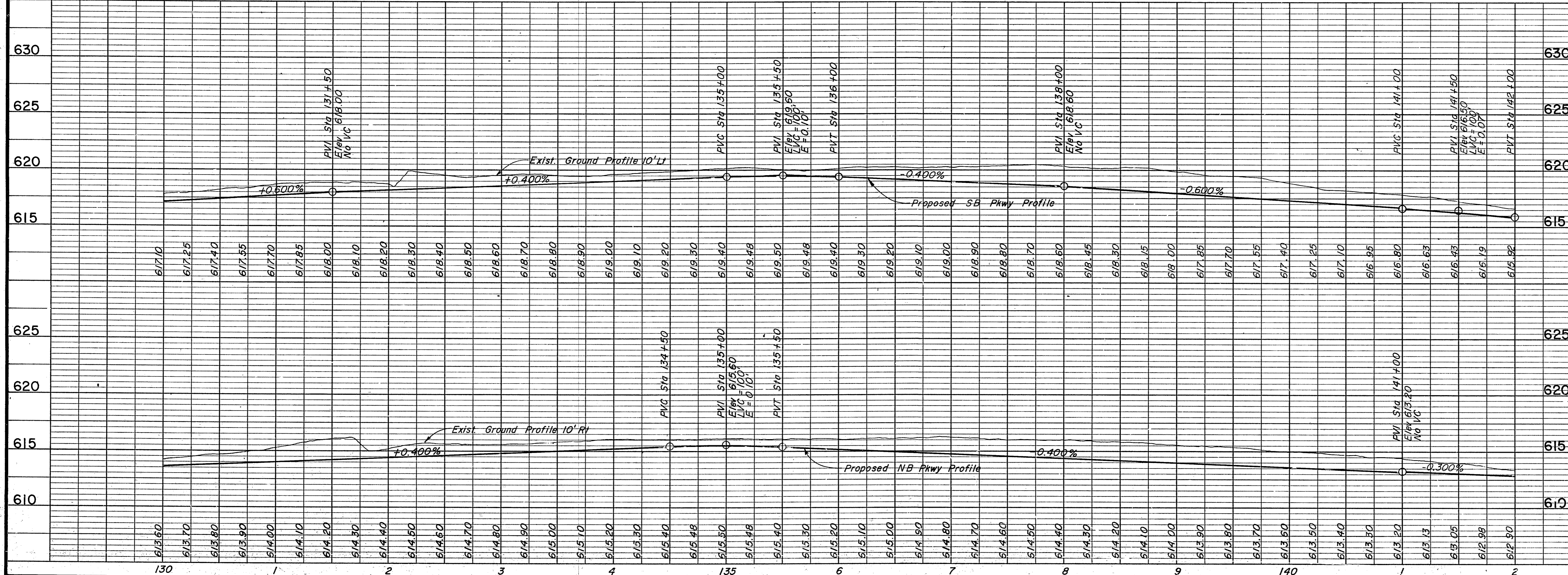
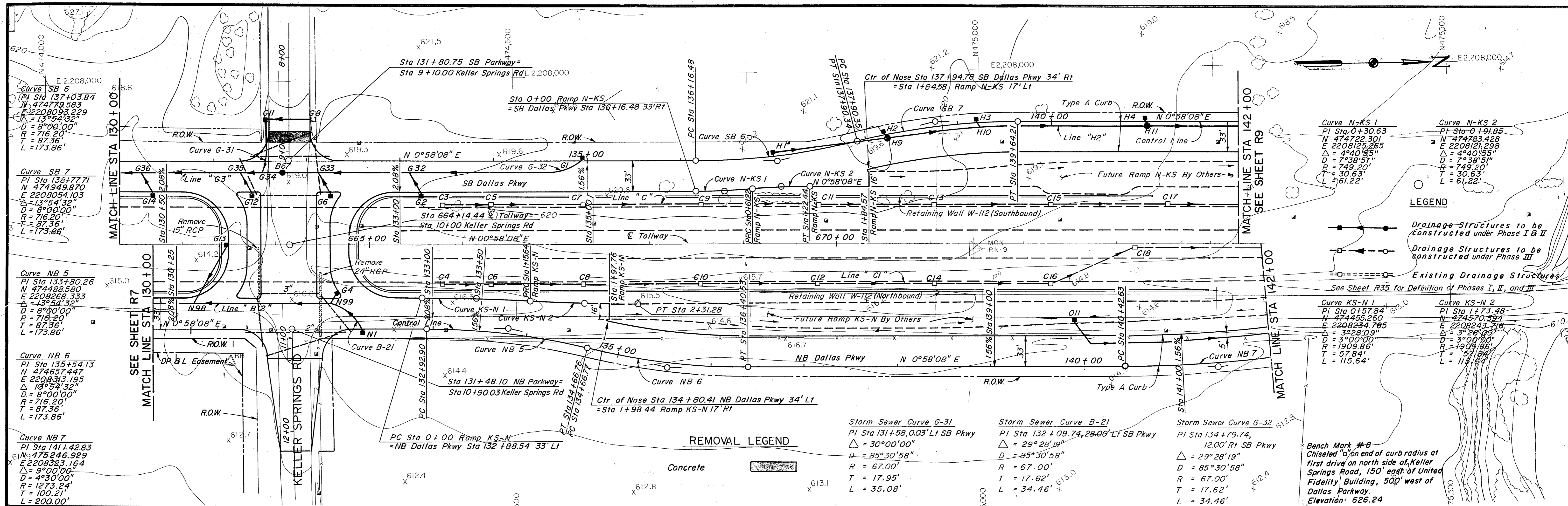
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
PAVING AND GRADING DALLAS PARKWAY STA 112+00 TO STA 119+00			
Gibbs & Hill, Inc. <small>ENGINEERS DESIGNERS CONSTRUCTORS</small>			SECTION VII
<small>DRAWN</small> CJB <small>CHECKED</small> DWC	<small>DATE</small> 4/1/83 <small>DATE</small> 5/1/84	<small>DESIGNED</small> DWC <small>SCALE</small> 1"=50' Hor 1"=5' Vert	<small>DATE</small> 4/1/83
CONTRACT NO. DNT-115 SHEET R6 OF R85			



- NOTES:**
- See Sheet R17 for Tollway Plan & Profile.
 - See Sheets R27 & R28 for Paving Plans.
 - See the following Sheets for Storm Sewer Profiles:

Line	Sheet
62	R50
63	R54
B2	R53
 - See Sheets W2 & W3 for Retaining Wall Details.
 - See Sheet R34 for Definition of Phase I, II, and III.
 - See Sheets R26 and R27 for Toll Plaza Building Project Limits.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY PAVING AND GRADING DALLAS PARKWAY STA 119+00 TO STA 130+00 Gibbs & Hill, Inc. <small>ENGINEERS DESIGNERS CONSTRUCTORS DALLAS</small> SECTION VII			
DRAWN	CJB	DATE	4/5/83
CHECKED	DWC	DATE	5/1/84
DESIGNED	DWC	DATE	4/1/83
SCALE	1" = 50' Hor 1" = 5' Vert		
CONTRACT NO. DNT-115 SHEET R7 OF R85			

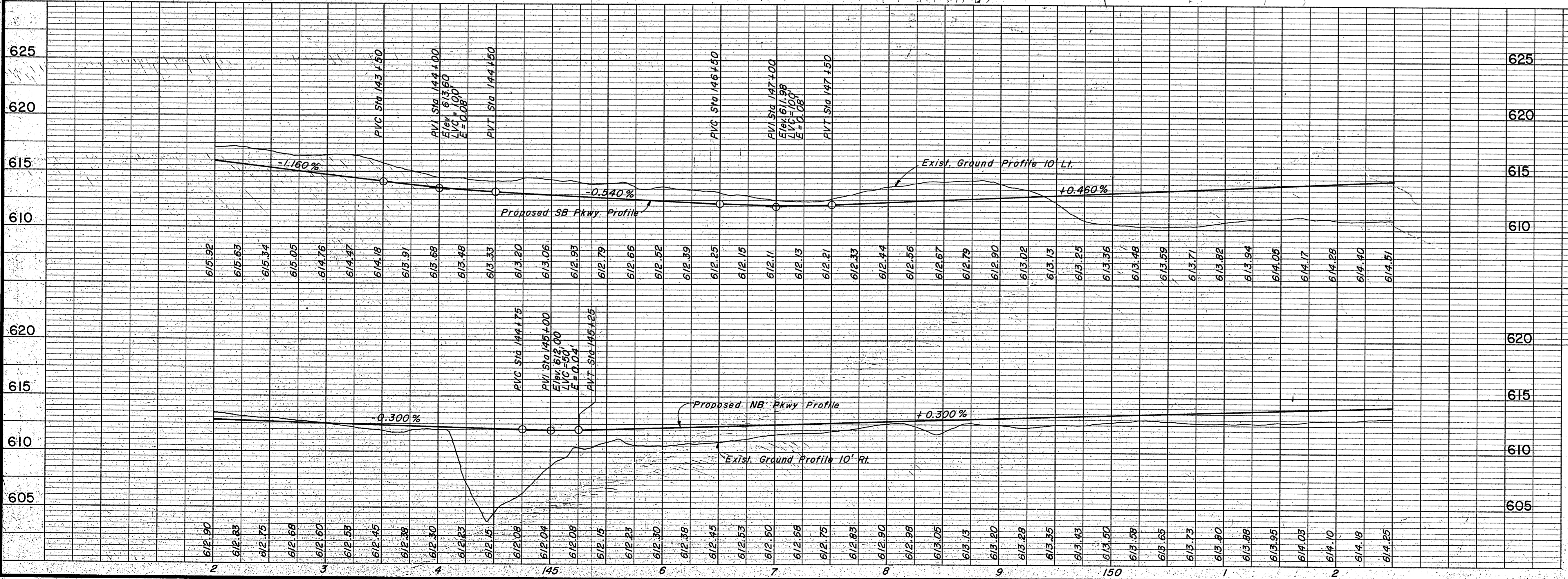
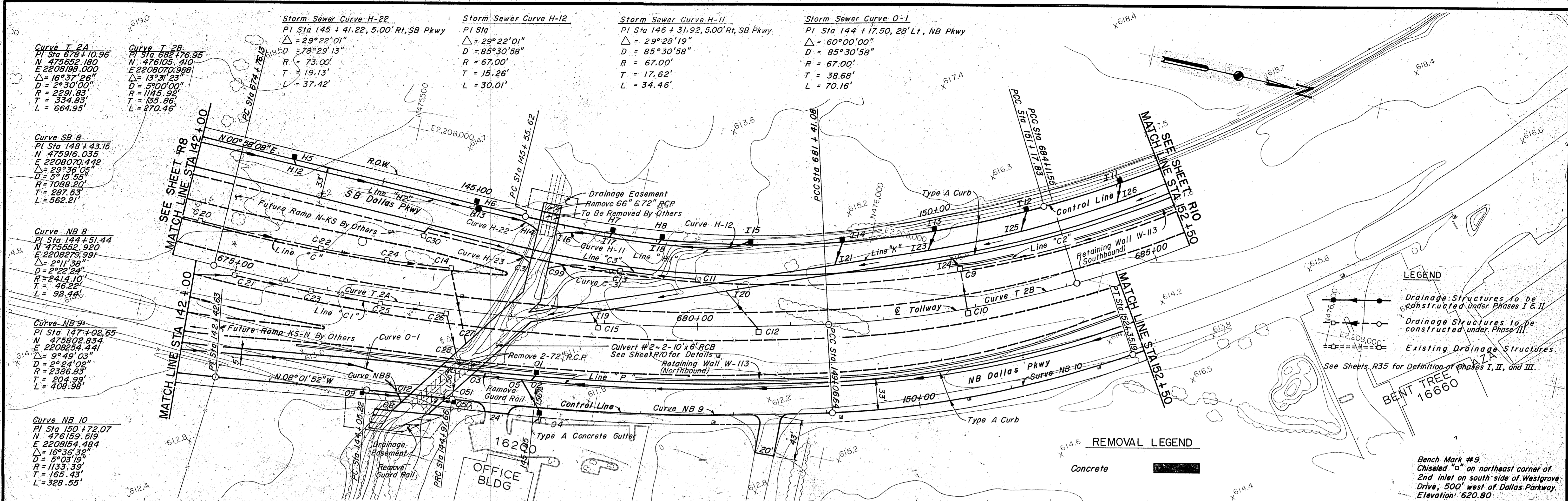


Notes:

- See Sheet R18 for Tollway Plan & Profile.
- See Sheet R29 for Paving Plan of Keller Springs Road.
- See Sheet R30 for Paving Plan of Ramp KS-N.
- See Sheet R31 for Paving Plan of Ramp N-KS.
- See the following sheets for Storm Sewer Profiles:

Line	Sheet
G3	R54
B2	R52
H2	R56
- See Sheets S1 - S9 for Keller Springs Road Bridge Details.
- See Sheets W2 - W5 for Retaining Wall Details.
- For Slopes See Cross Sections.

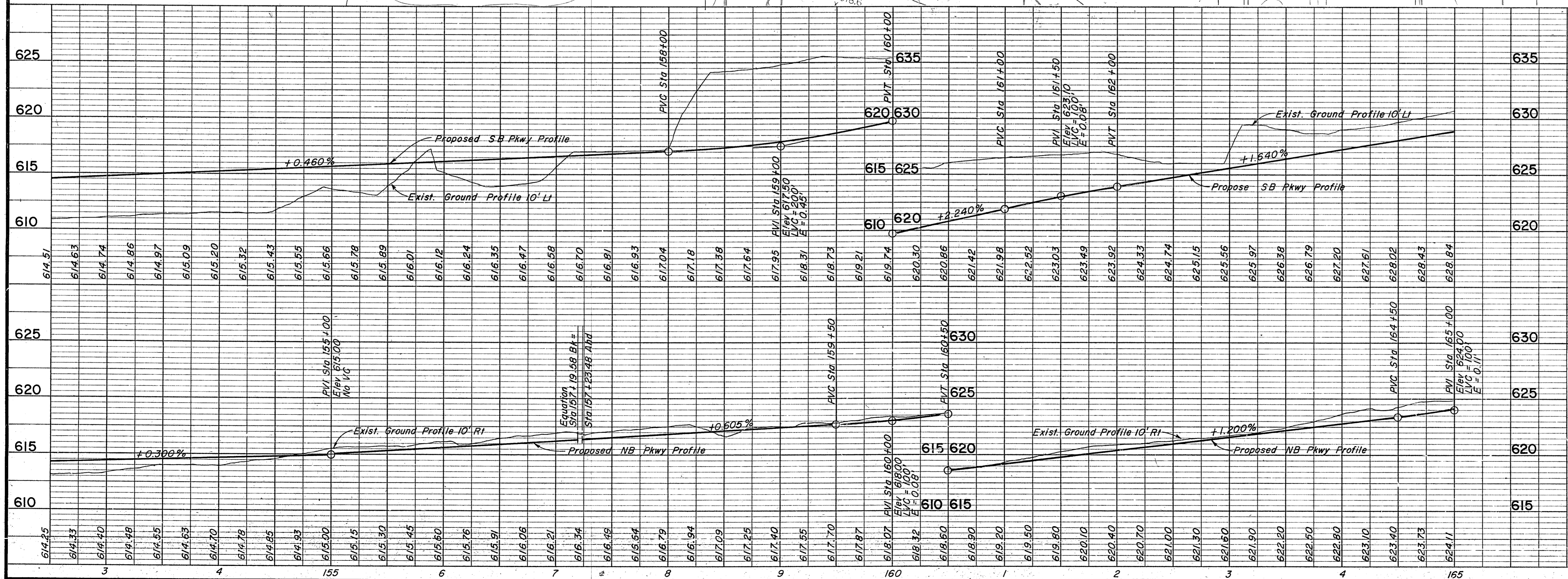
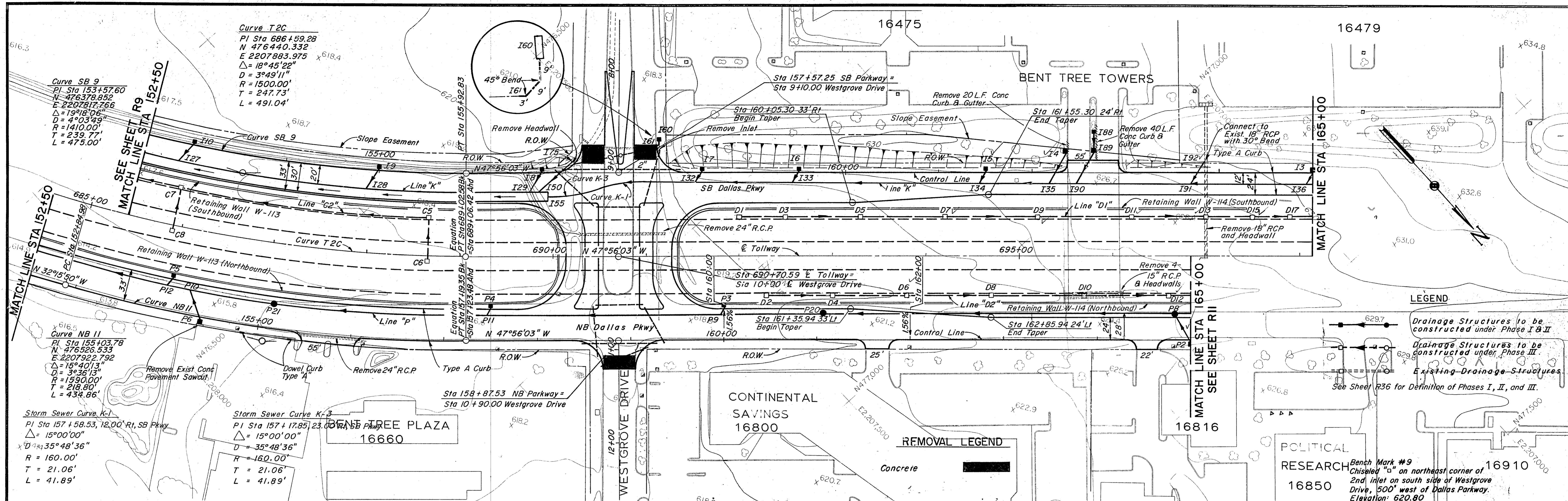
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
PAVING AND GRADING DALLAS PARKWAY STA 130+00 TO STA 142+00			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS			SECTION VII
DRAWN	CJB	DATE	4/5/83
CHECKED	DWC	DATE	5/1/84
DESIGNED	DWC	DATE	4/1/83
SCALE	1"=50' Hor 1"=5' Vert		
CONTRACT NO. DNT-115 SHEET R8 OF R85			



- NOTES:**
1. Refer to Sheet R19 for Tollway Plan & Profile.
 2. See Sheet R30 for Paving Plan - Ramp KS-N.
 3. See Sheet R31 for Paving Plan - Ramp N-KS.
 4. See Sheets R70 - R72 for Box Culvert Details.
 5. See the following Sheets for Storm Sewer Profiles:

Line	Sheet
H1, H2	R56
K	R58
P	R57
 6. See Sheets W6 - W8 for Retaining Wall Details.
 7. For Slopes See Cross Sections.

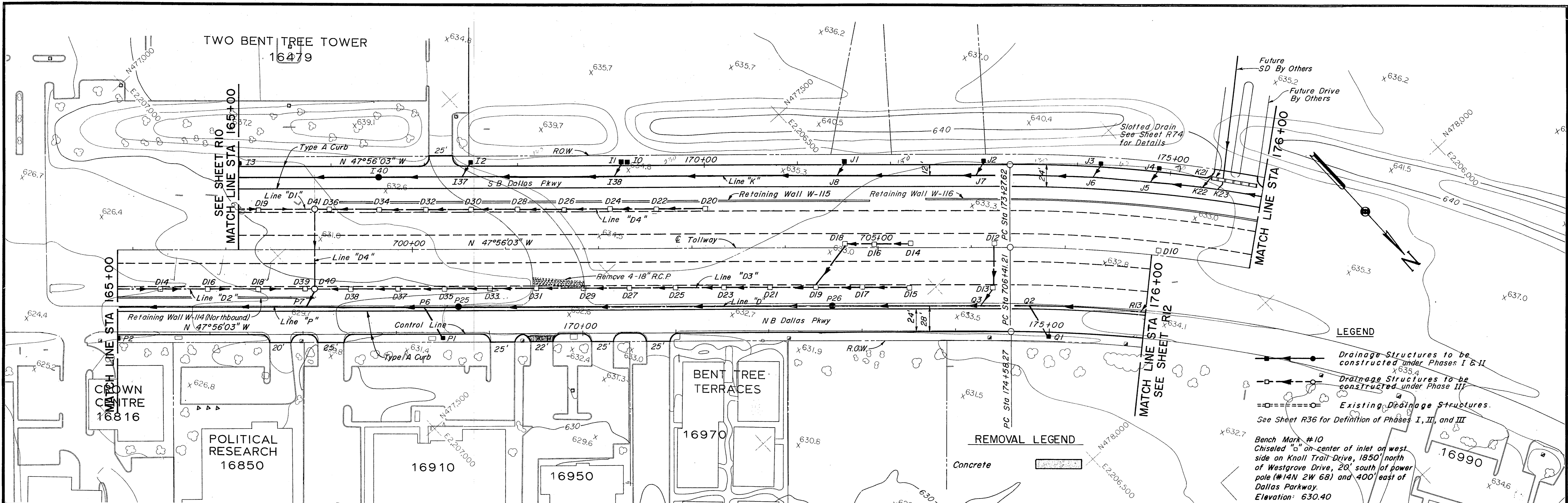
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
PAVING AND GRADING DALLAS PARKWAY STA 142 + 00 TO STA 152 + 50			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS			SECTION VII
DRAWN	VER	DATE 9-13-83	DESIGNED
CHECKED	DWC	DATE 9-13-83	SCALE 1" = 50' Hor., 1" = 5' Vert.
CONTRACT NO. DNT-115 SHEET R9 OF R85			



- Notes:**
- See Sheet R20 for Tollway Plan & Profile.
 - See Sheet R32 for Paving Plan for Westgrove Drive.
 - See the following Sheets for Storm Sewer Profiles:

Line	Sheet
K	R58, R59
P	R57
 - See Sheets W6 - W10 for Retaining Wall Details.
 - See Sheets S10 - S20 for Westgrove Drive Bridge Details.
 - For Slopes See Cross Sections.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
PAVING AND GRADING DALLAS PARKWAY STA 152+50 TO STA 165+00			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS			SECTION VII
DRAWN CJB	DATE 4/5/83	DESIGNED DWC	DATE 4/1/83
CHECKED DWC	DATE 5/2/84	SCALE 1" = 50' Hor 1" = 5' Vert	
CONTRACT NO. DNT-115 SHEET RIO OF R85			



LEGEND

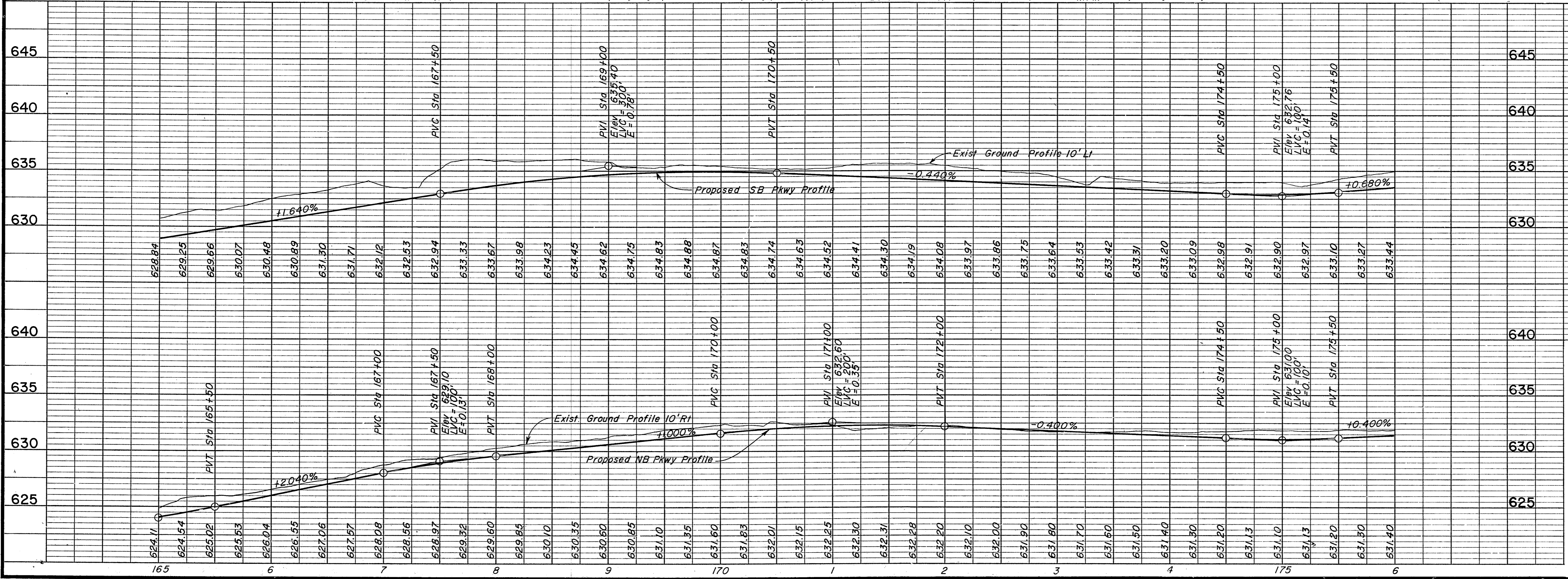
- Drainage Structures to be constructed under Phases I & II
- Drainage Structures to be constructed under Phase III
- Existing Drainage Structures

See Sheet R36 for Definition of Phases I, II, and III

Bench Mark #10
Chiseled "b" on center of inlet of west side of Knoll Trail Drive, 1850' north of Westgrove Drive, 20' south of power pole (#14N 2W 68) and 400' east of Dallas Parkway.
Elevation: 630.40

REMOVAL LEGEND

Concrete

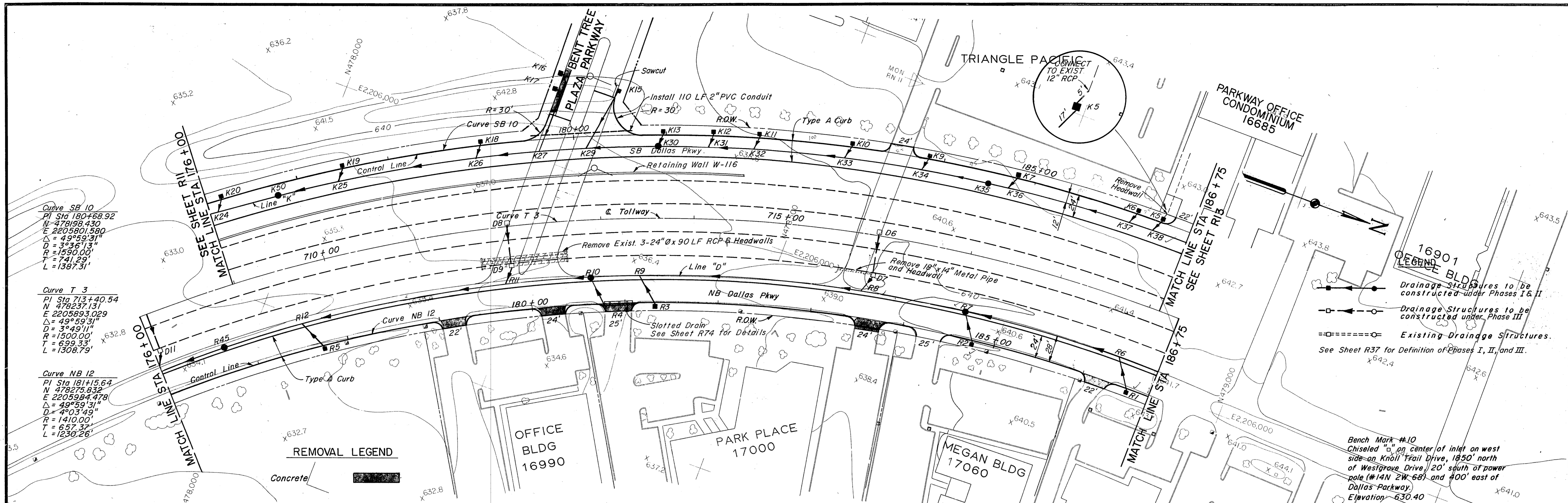


NOTES:

- See Sheet R21 for Tollway Plan & Profile.
- See Sheets W11-W12 for Retaining Wall Details
- See the following Sheets for Storm Sewer Profiles:

Line	Sheet
K	R59
P	R57
- See Sheet R74 for Slotted Drain Detail
- For Slopes See Cross Sections.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
PAVING AND GRADING DALLAS PARKWAY STA 165+00 TO STA 176+00			
Gibbs & Hill, Inc. <small>ENGINEERS DESIGNERS CONSTRUCTORS</small> <small>DALLAS</small>			SECTION VII
<small>DRAWN</small> CJB <small>CHECKED</small> DWC	<small>DATE</small> 4/5/83 <small>DATE</small> 5/7/84	<small>DESIGNED</small> DWC <small>SCALE</small> 1"=50' Hor 1"=5' Vert	<small>DATE</small> 4/1/83
CONTRACT NO. DNT-115 SHEET "R11" OF R85			



REMOVAL LEGEND

Concrete [Symbol]

REMOVAL LEGEND

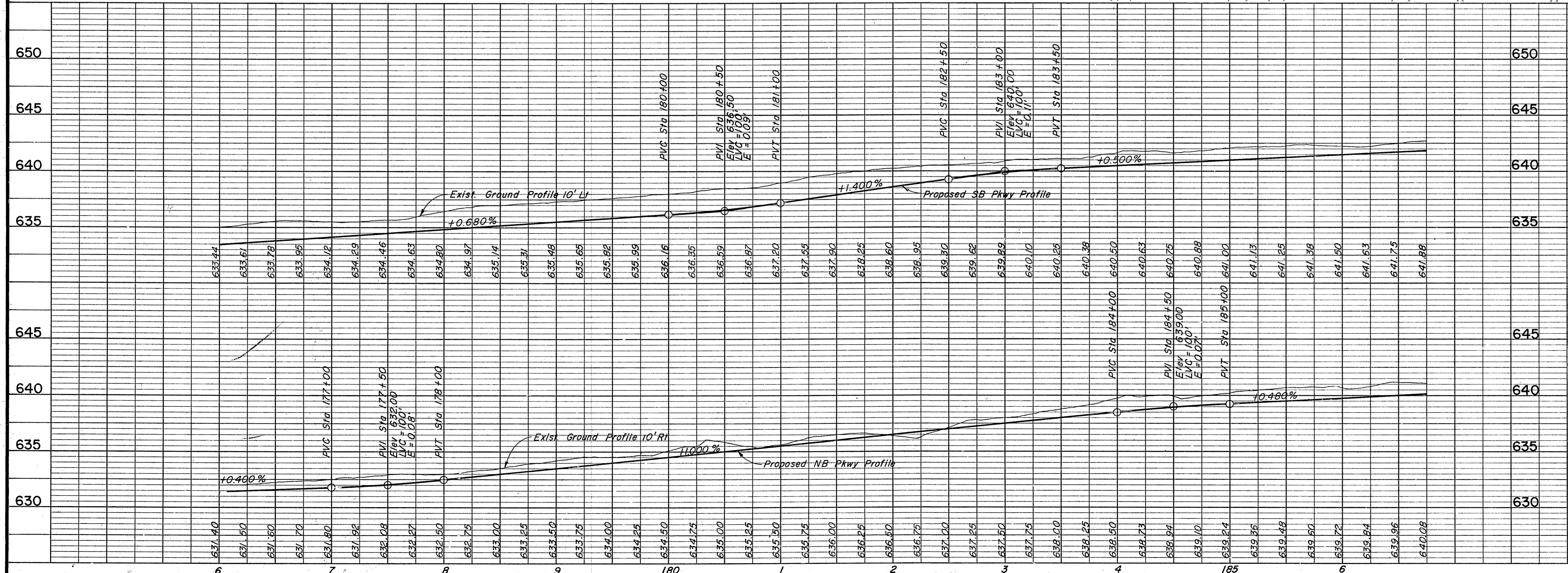
Drainage Structures to be constructed under Phases I & II [Symbol]

Drainage Structures to be constructed under Phase III [Symbol]

Existing Drainage Structures [Symbol]

See Sheet R37 for Definition of Phases I, II, and III.

Bench Mark #10
 Chiseled "a" on center of inlet on west side of Knoll Trail Drive, 1850' north of Westgrave Drive, 20' south of power pole (#14N 2W-68) and #100' east of Dallas Parkway
 Elevation: 630.40

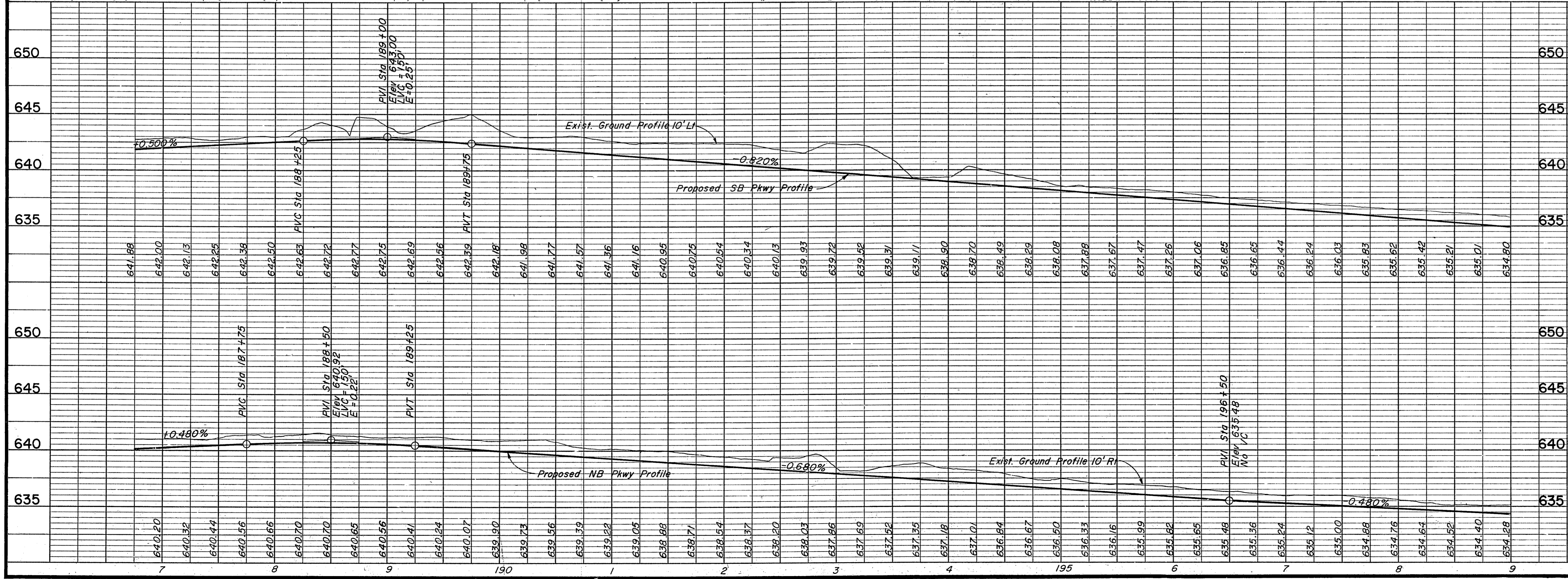
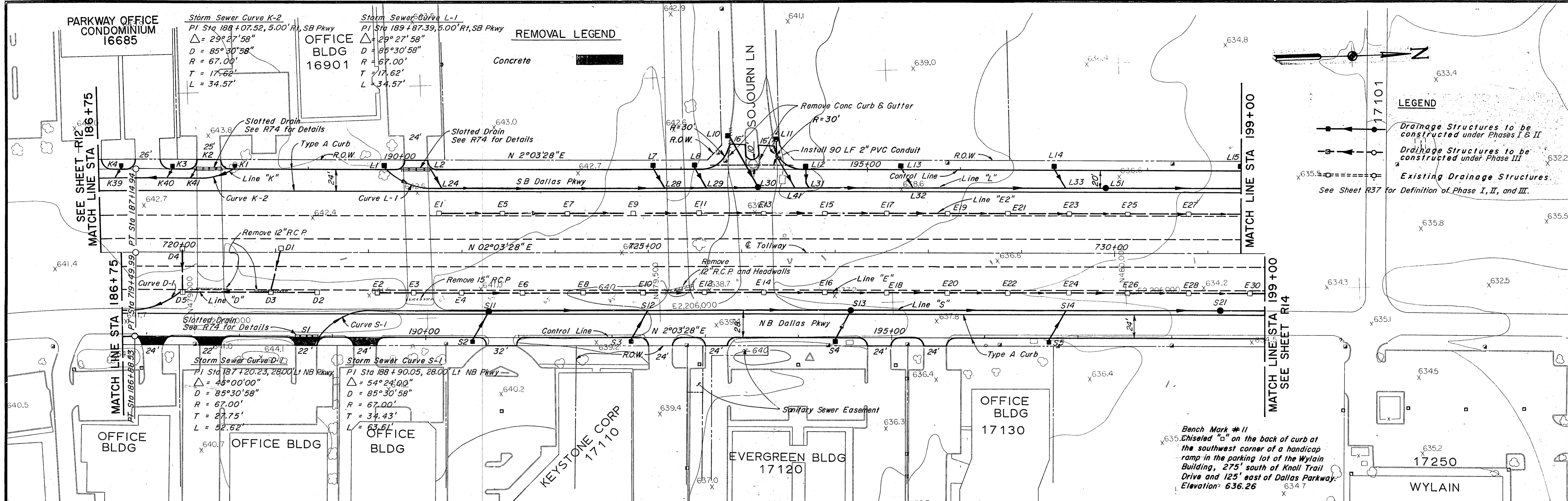


NOTES:

- See Sheet R22 for Tollway Plan & Profile.
- See Sheet W12 for Retaining Wall Details.
- See the following sheets for Storm Sewer Profiles:

Line	Sheet
K	R60
D	R62
- See Sheet R74 for Slotted Drain Detail.
- For Slopes See Cross Sections.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
PAVING AND GRADING DALLAS PARKWAY STA 176+00 TO STA 186+75			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN CJB	DATE 4/5/83	DESIGNED DWC	DATE 4/1/83
CHECKED DW	DATE 7/30/84	SCALE 1"=50' Hor 1"=5' Vert	
CONTRACT NO. DNT-115 SHEET R12 OF R85			

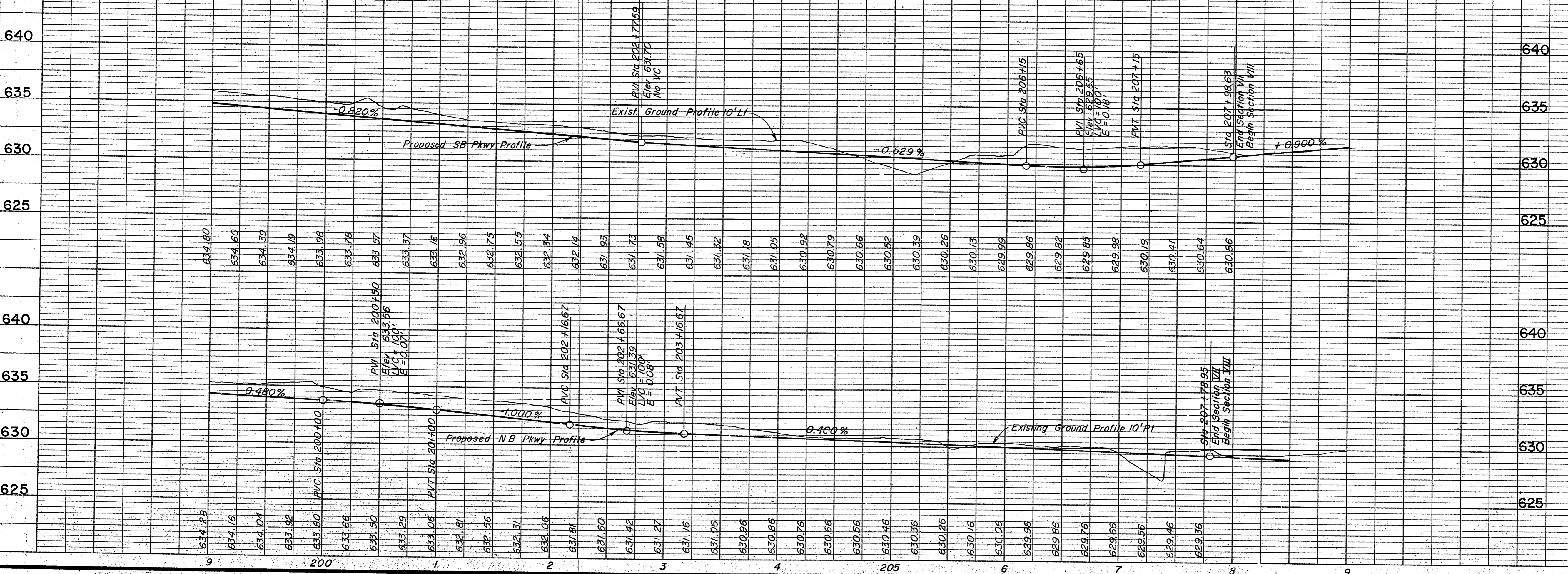
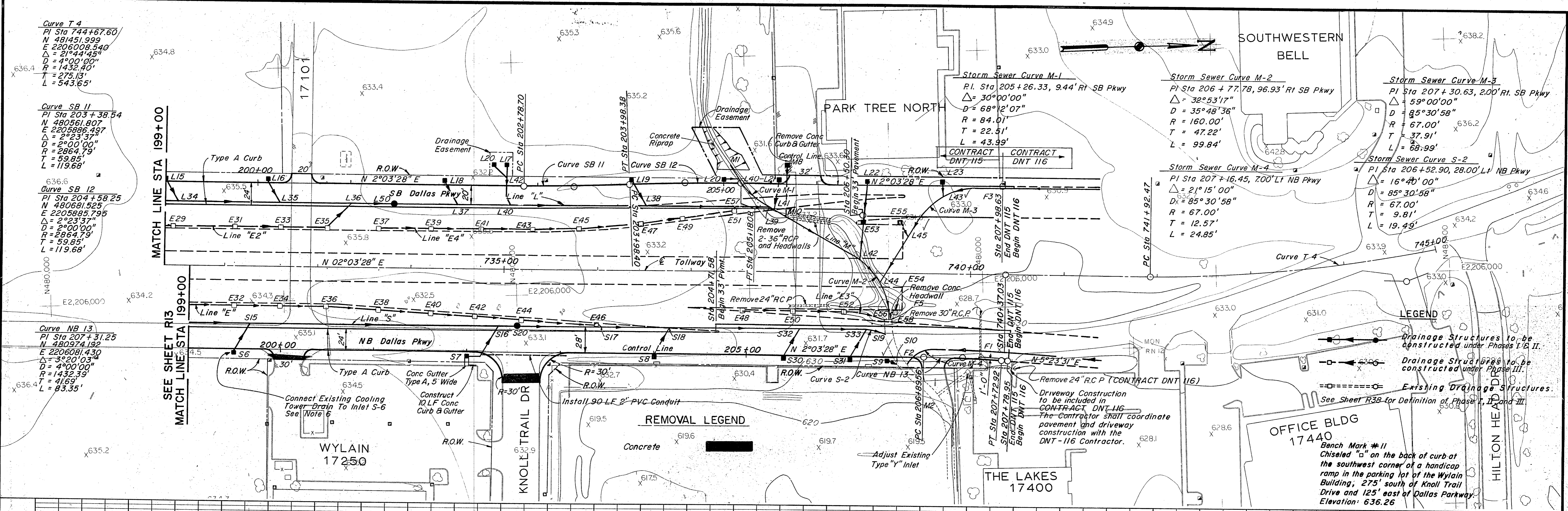


NOTES:

- See Sheet R23 for Tollway Plan & Profile.
- See the following Sheets for Storm Sewer Profiles:

Line	Sheet
K	R60
L	R64
E, E2	R65
D	R62
S	R66
- See Sheet R74 for Slotted Drain Detail.
- For Slopes See Cross Sections.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY PAVING AND GRADING DALLAS PARKWAY STA 186+75 TO STA 199+00			
Gibbs & Hill, Inc. <small>ENGINEERS DESIGNERS CONSTRUCTORS</small> DALLAS			SECTION VII
DRAWN <i>CJB</i> DATE <i>4/15/83</i> CHECKED <i>DWC</i> DATE <i>5/7/84</i>	DESIGNED <i>DWC</i> DATE <i>4/11/83</i> SCALE <i>1"=50' Hor. 1"=5' Vert.</i>		
CONTRACT NO. DNT-115 SHEET R13 OF R85			



LEGEND

- Drainage Structures to be constructed under Phases I & II.
- Drainage Structures to be constructed under Phase III.
- Existing Drainage Structures. See Sheet R38 for Definition of Phases I, II, and III.

REMOVAL LEGEND

- Concrete
- Adjust Existing Type "Y" Inlet

NOTES

- See sheet R24 for Tollway Plan & Profile.
- See Sheet R73 for Culvert Details.
- See Sheet R33 for Paving Plan - Ramps A & B.
- See the following Sheets for Storm Sewer Profiles:

Line	Sheet
S	R66
M	R67
L	R64
- For Slopes See Cross Sections.
- Cooling Tower drain connection will not be paid for directly but will be considered subsidiary to Item 4.75 "Headwalls, Wingwalls, Inlets and Manholes".

NO.	REVISION	BY	DATE

TEXAS TURNPIKE AUTHORITY
DALLAS NORTH TOLLWAY

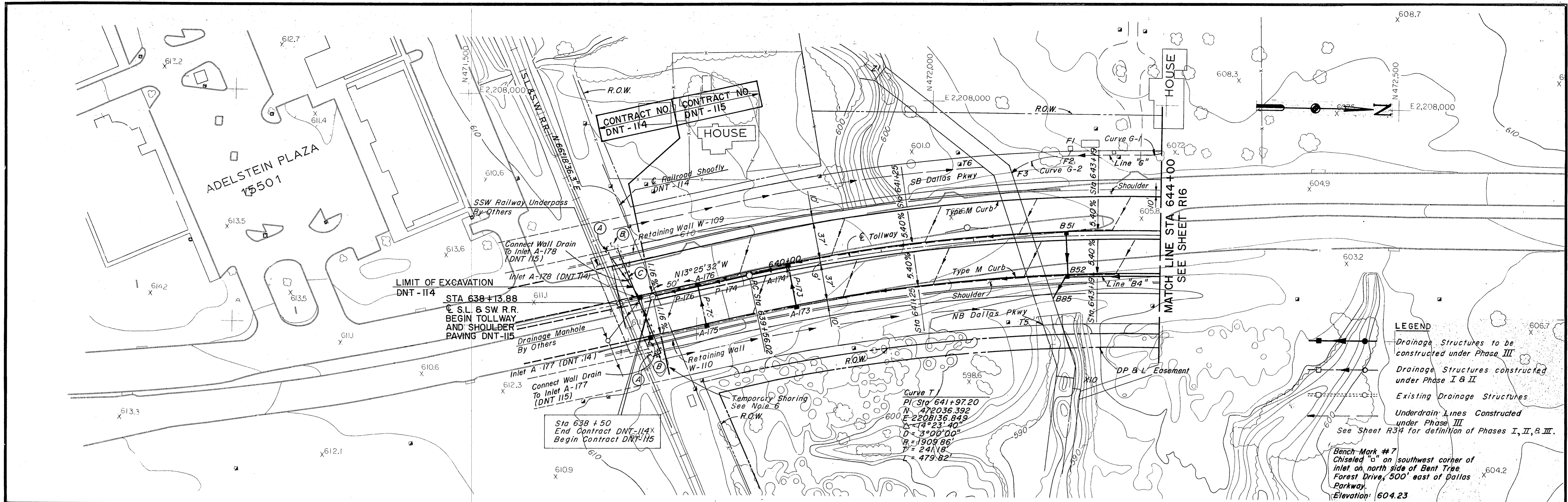
PAVING AND GRADING
 DALLAS PARKWAY
 STA 199+00 TO STA 207+98.63

Gibbs & Hill, Inc.
 ENGINEERS DESIGNERS CONSTRUCTORS

SECTION VII

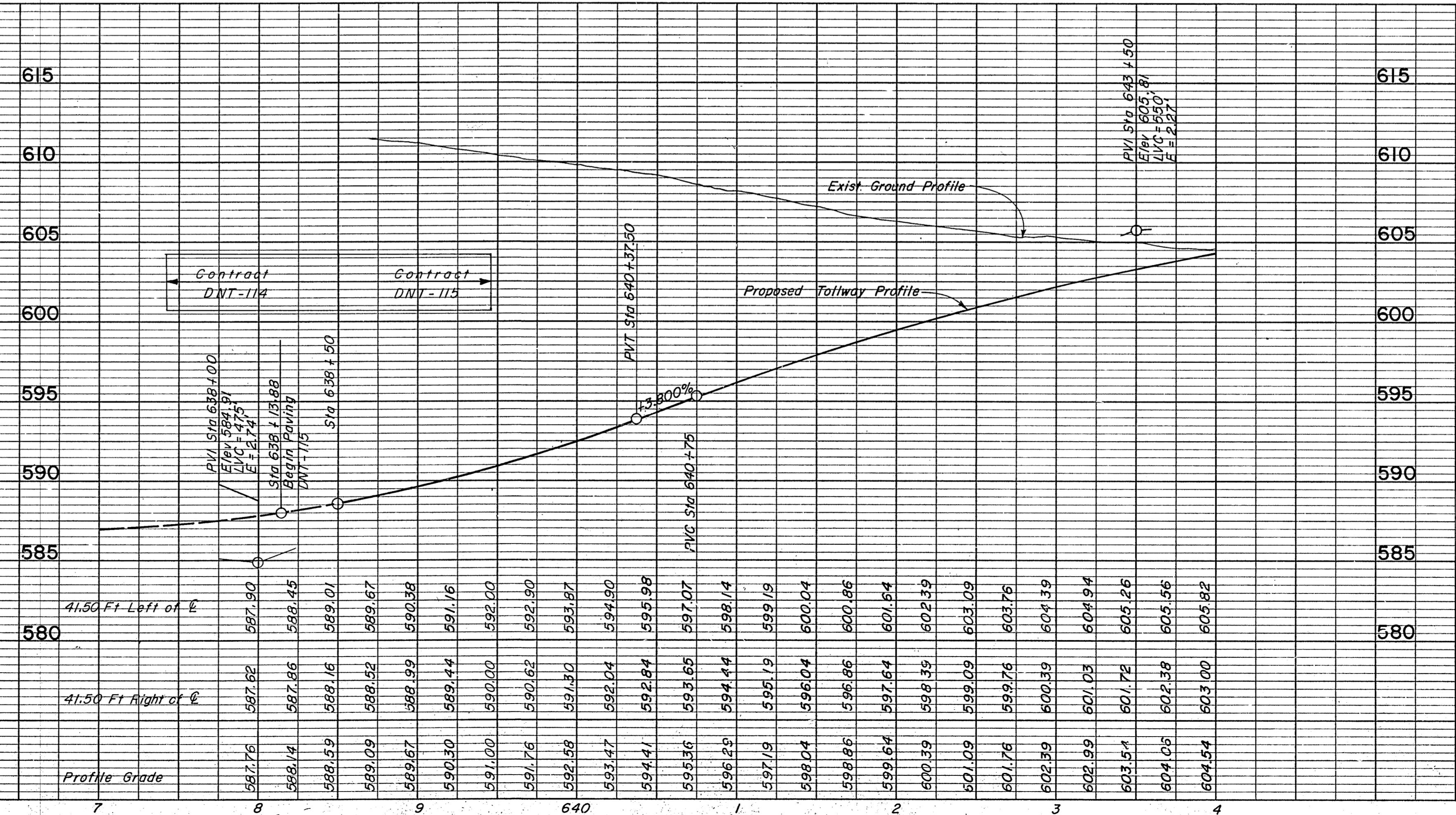
DRAWN CJB DATE 4/4/83 DESIGNED DWC DATE 4/4/83
 CHECKED MGB DATE 5/4/84 SCALE 1"=50' Hor 1"=5' Vert

CONTRACT NO. DNT-115 SHEET R14 OF R85

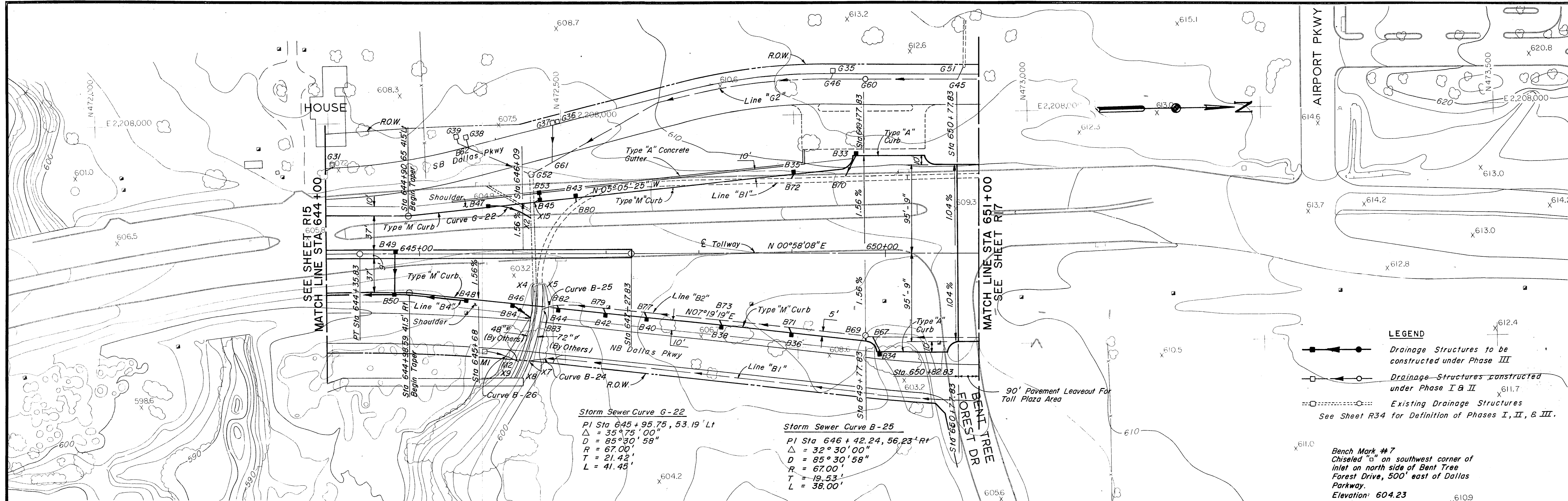


NOTES:

1. See Sheet R5 for Dallas Parkway Plan & Profiles for Removals.
2. See Sheet R50 for Storm Sewer Profiles.
3. See Sheets R68 - R69 for Box Culvert Details.
4. See Sheets W1 for Retaining Wall and Shoring Details.
5. For Shoulder and Median Barrier Details See Typical Sections.
6. Temporary Shoring (A) and (B) shall be constructed by DNT-114 and will remain in place until Walls W-109 and W-110 are constructed. Temporary Shoring (C), if removed will be removed by DNT-114. DNT-115 (at their option) will salvage or abandon shoring (B) after Walls W-109 and W-110 are constructed. Temporary Shoring (C) will be constructed by DNT-114 and removed by DNT-114 after the railroad bridge is constructed and railroad traffic returned to original track. DNT-115 will not be permitted to work south of the shoofly until railroad traffic is returned to the existing track. The exact date of the shoofly removal has not been determined. DNT-114 and DNT-115 contractors shall coordinate construction at the contract limits.



NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY PAVING AND GRADING TOLLWAY STA 638+50 TO STA 644+00 Gibbs & Hill, Inc. <small>ENGINEERS DESIGNERS CONSTRUCTORS</small> DALLAS			
SECTION VII			
DRAWN	VER	DATE	7/8/83
CHECKED	DWC	DATE	4/30/84
DESIGNED	DWC	DATE	6/30/83
SCALE	1" = 50' Hor 1" = 5' Vert		
CONTRACT NO. DNT-115 SHEET R15 OF R85			

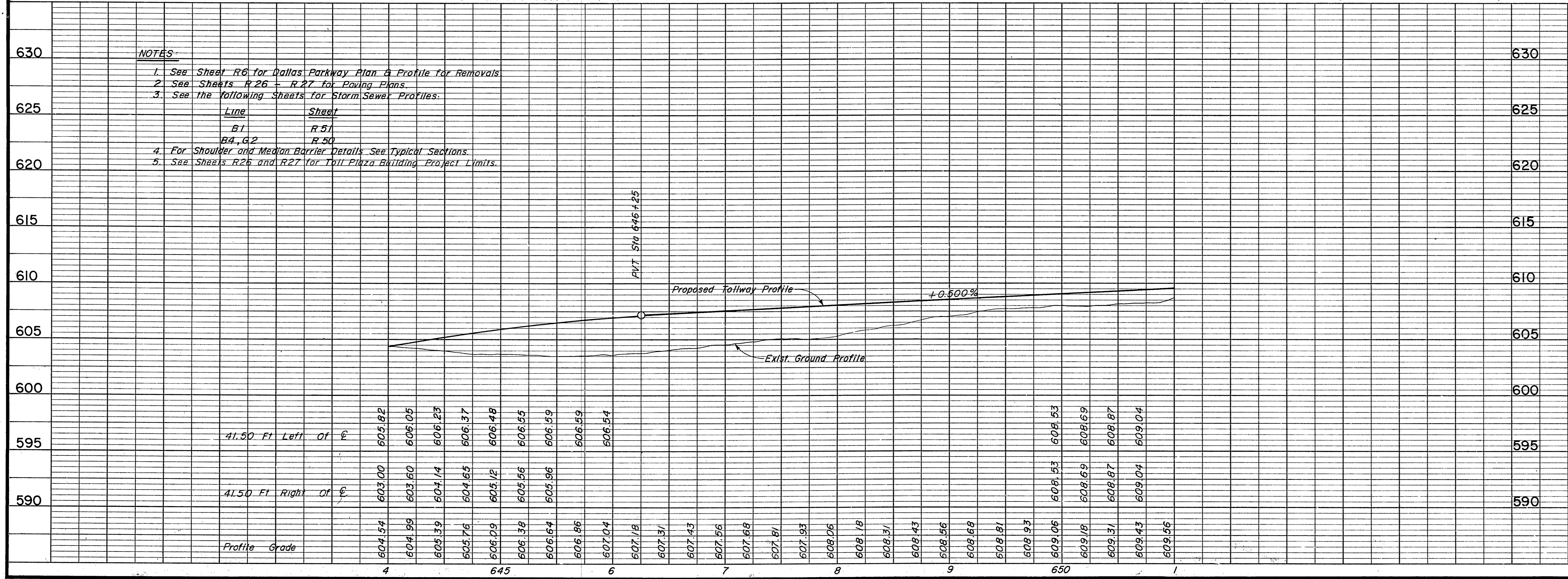


LEGEND

- Drainage Structures to be constructed under Phase III
- Drainage Structures constructed under Phase I & II
- Existing Drainage Structures

See Sheet R34 for Definition of Phases I, II, & III.

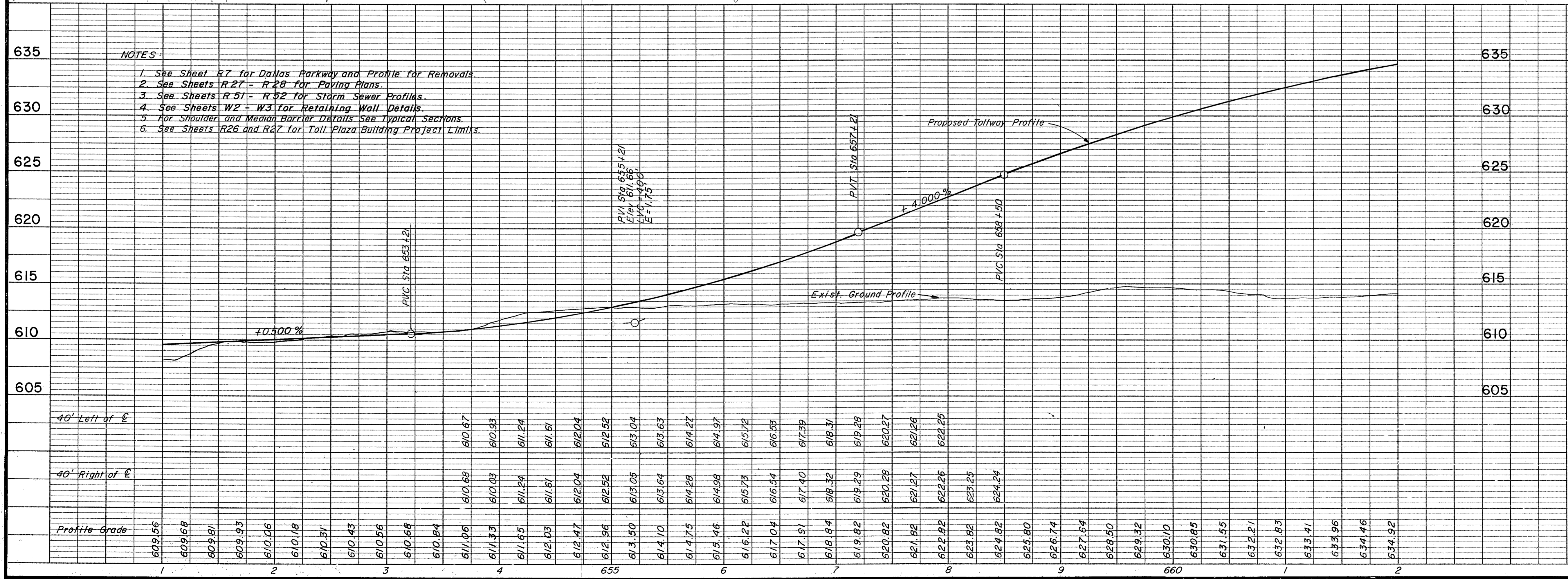
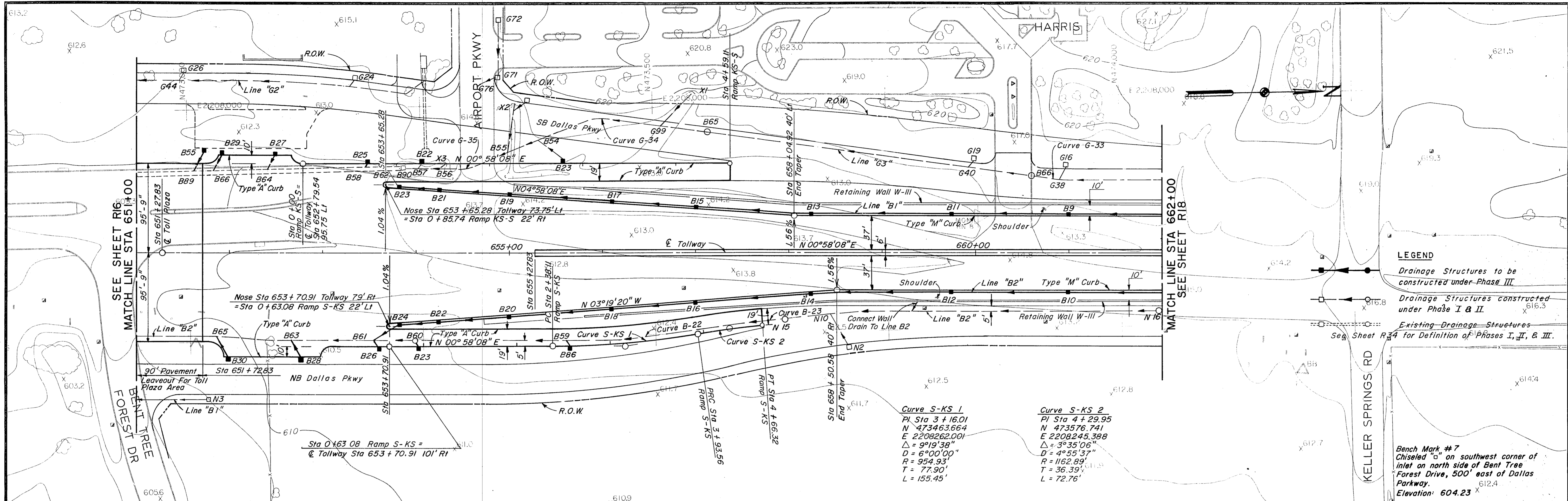
Bench Mark #7
Chiseled "a" on southwest corner of inlet on north side of Bent Tree Forest Drive, 500' east of Dallas Parkway.
Elevation: 604.23



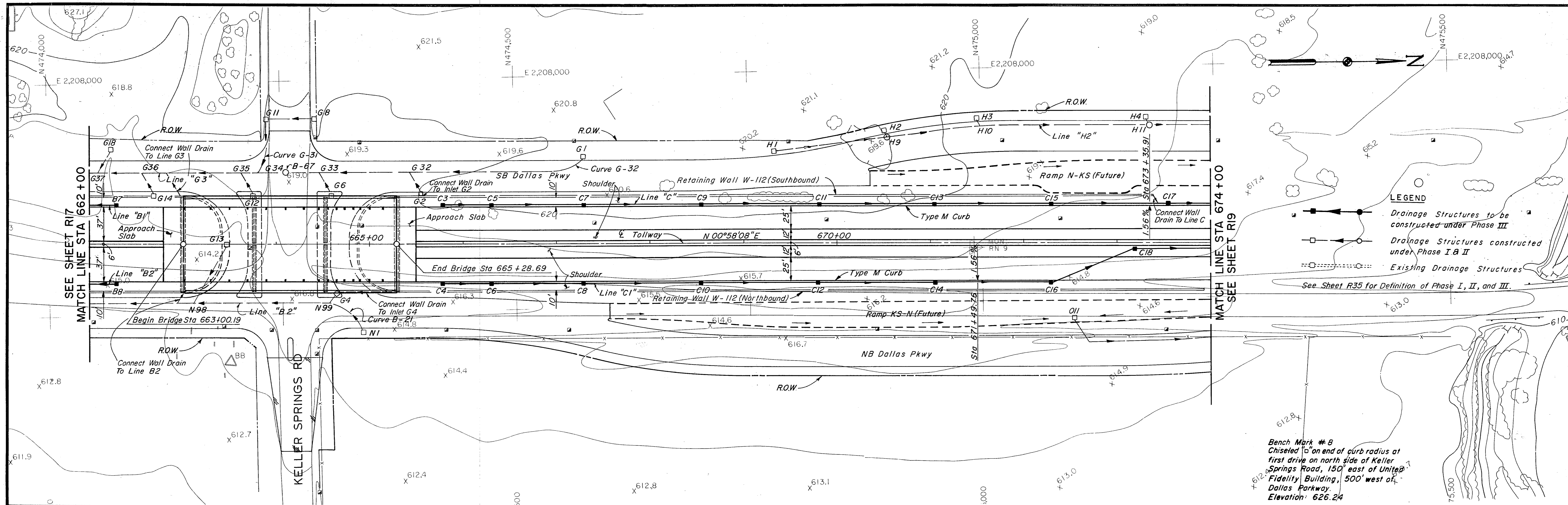
- NOTES:**
- See Sheet R6 for Dallas Parkway Plan & Profile for Removals
 - See Sheets R26 - R27 for Paving Plans
 - See the following sheets for Storm Sewer Profiles:

Line	Sheet
B1	R51
B4, G2	R50
 - For Shoulder and Median Barrier Details See Typical Sections
 - See Sheets R26 and R27 for Toll Plaza Building Project Limits

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
PAVING AND GRADING TOLLWAY STA 644+00 TO STA 651+00			
Gibbs & Hill, Inc. <small>ENGINEERS DESIGNERS CONSTRUCTORS</small>			SECTION VII
<small>DRAWN</small> VER <small>CHECKED</small> DWC	<small>DATE</small> 7/8/83 <small>DATE</small> 5/7/84	<small>DESIGNED</small> DWC <small>SCALE</small> 1"=50' Hor. 1"=5' Vert.	<small>DATE</small> 6/30/83
CONTRACT NO. DNT-115 SHEET R16 OF R85			



NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY PAVING AND GRADING TOLLWAY STA 651+00 TO STA 662+00 Gibbs & Hill, Inc. <small>ENGINEERS, DESIGNERS, CONSTRUCTORS</small> DALLAS SECTION VII			
DRAWN	VER	DATE	7/8/83
CHECKED	DWC	DATE	5/2/84
DESIGNED	DWC	DATE	6/30/83
SCALE	1" = 50' Hor. 1" = 5' Vert.		
CONTRACT NO. DNT-115 SHEET R17 OF R85			

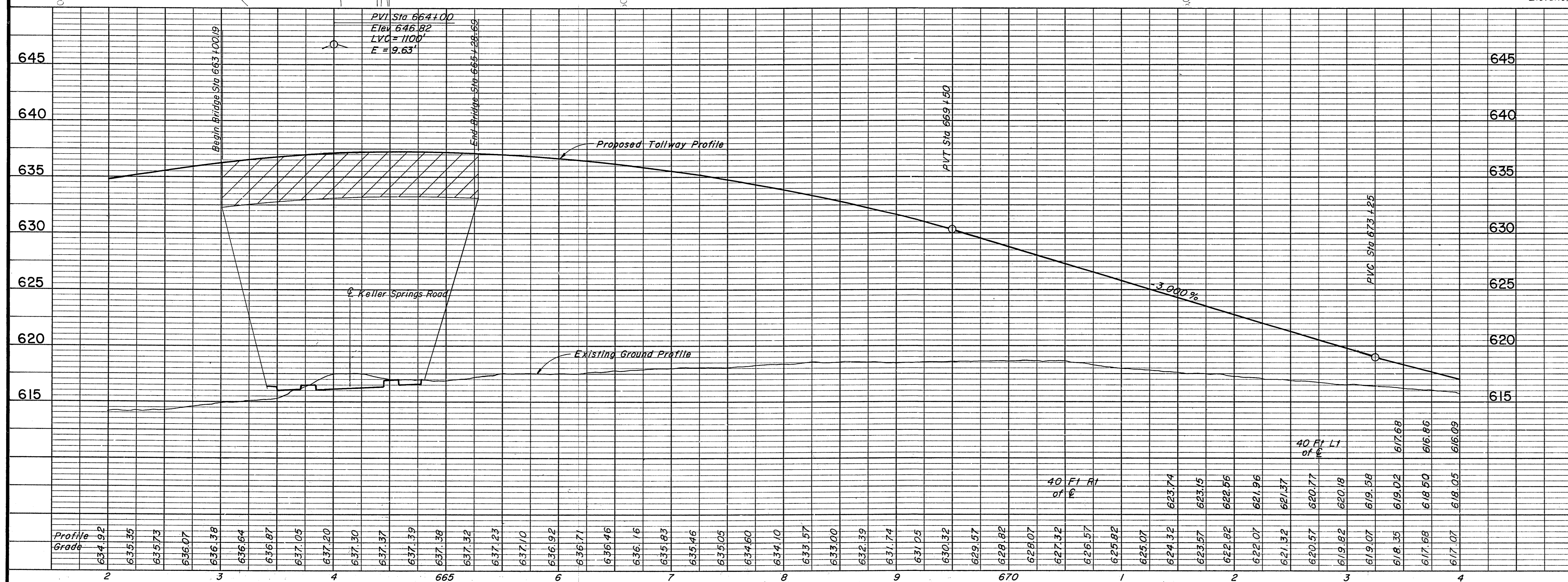


LEGEND

- Drainage Structures to be constructed under Phase III
- Drainage Structures constructed under Phase I & II
- Existing Drainage Structures

See Sheet R35 for Definition of Phase I, II, and III.

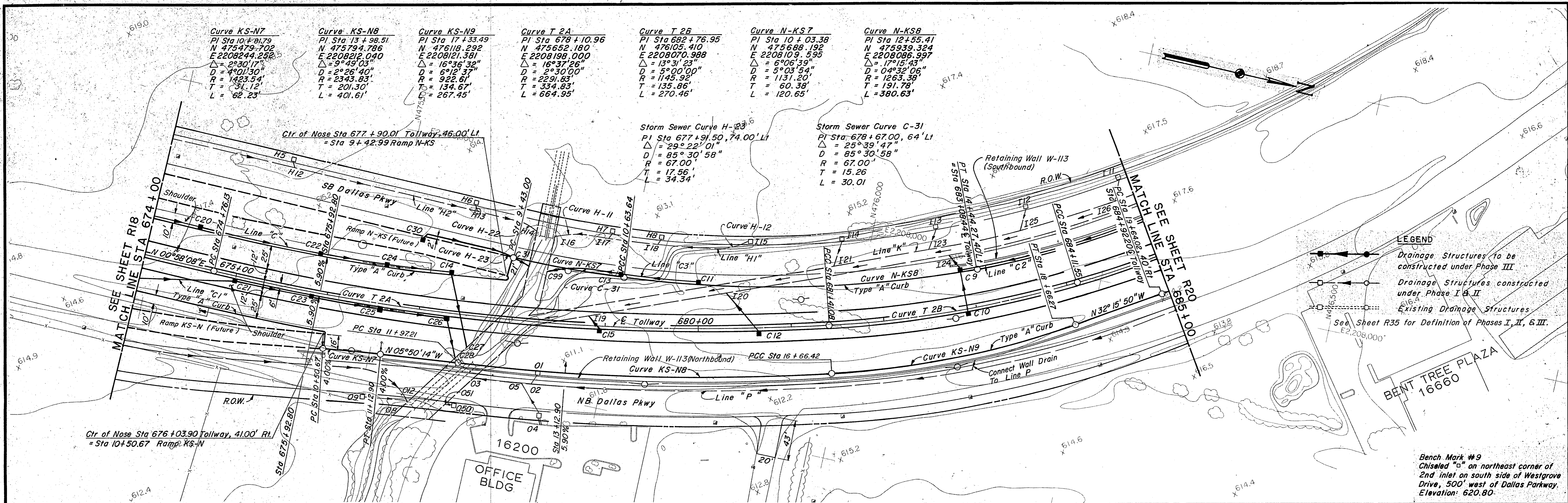
Bench Mark # 8
Chiseled to an end of curb radius at
first drive on north side of Keller
Springs Road, 150' east of United
Fidelity Building, 500' west of
Dallas Parkway.
Elevation: 626.24



- Notes:**
1. See Sheet R8 for Dallas Parkway Plan & Profile for Removals.
 2. See Sheets W2 - W5 for Retaining Wall Details.
 3. See Sheets S1 - S9 for Keller Springs Road Bridge Details.
 4. See the following sheets for Storm Sewer Profiles:

Line	Sheet
B1	R51
B2	R52
C, CI	R53
 5. For Shoulder and Median Barrier Details See Typical Sections.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
PAVING AND GRADING TOLLWAY STA 662+00, TO STA 674+00			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS			SECTION VII
DRAWN VER	DATE 7/8/83	DESIGNED DWC	DATE 6/30/83
CHECKED DWC	DATE 5/2/84	SCALE 1"=50' Hor 1"=5' Vert	
CONTRACT NO. DNT-115 SHEET R18 OF R85			

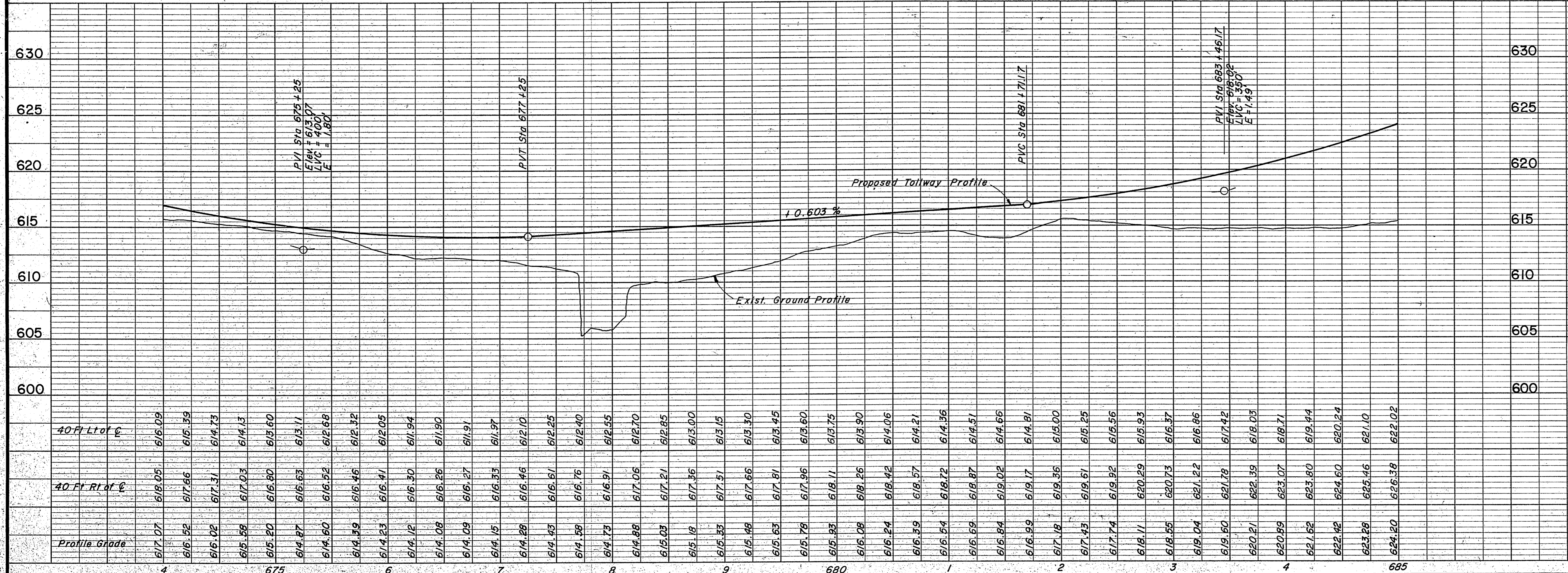


LEGEND

- Drainage Structures to be constructed under Phase III
- Drainage Structures constructed under Phase I & II
- Existing Drainage Structures

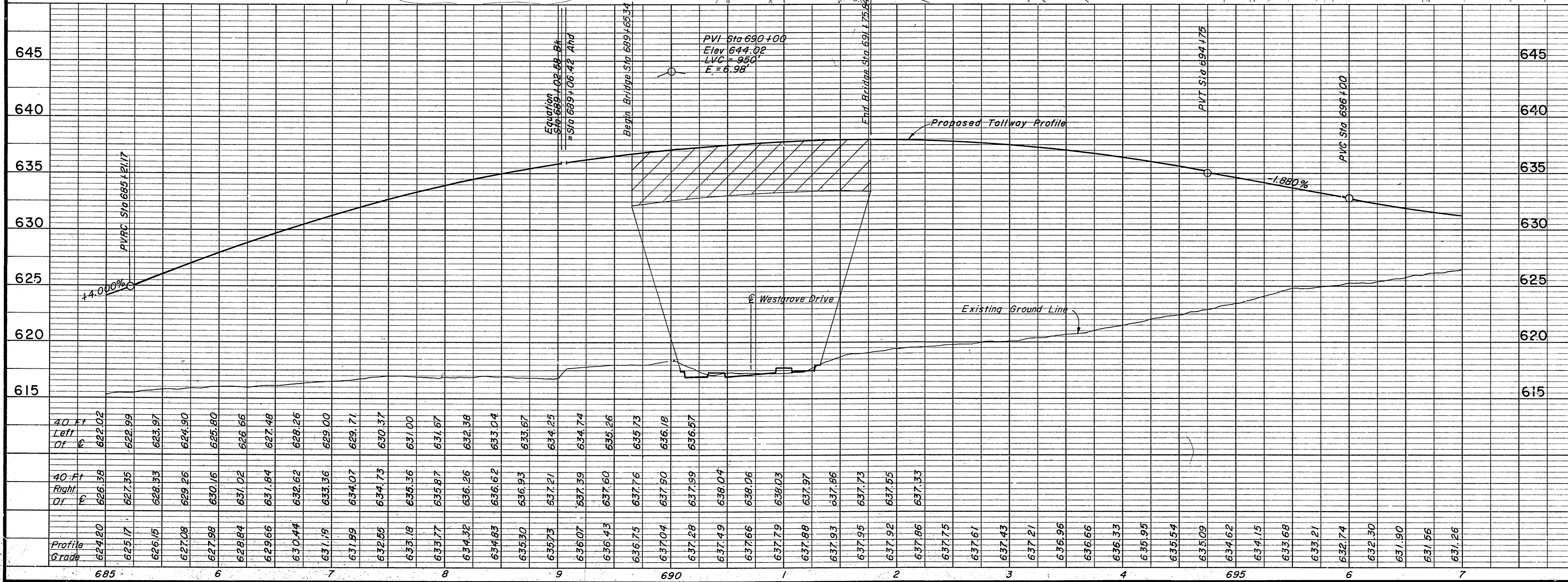
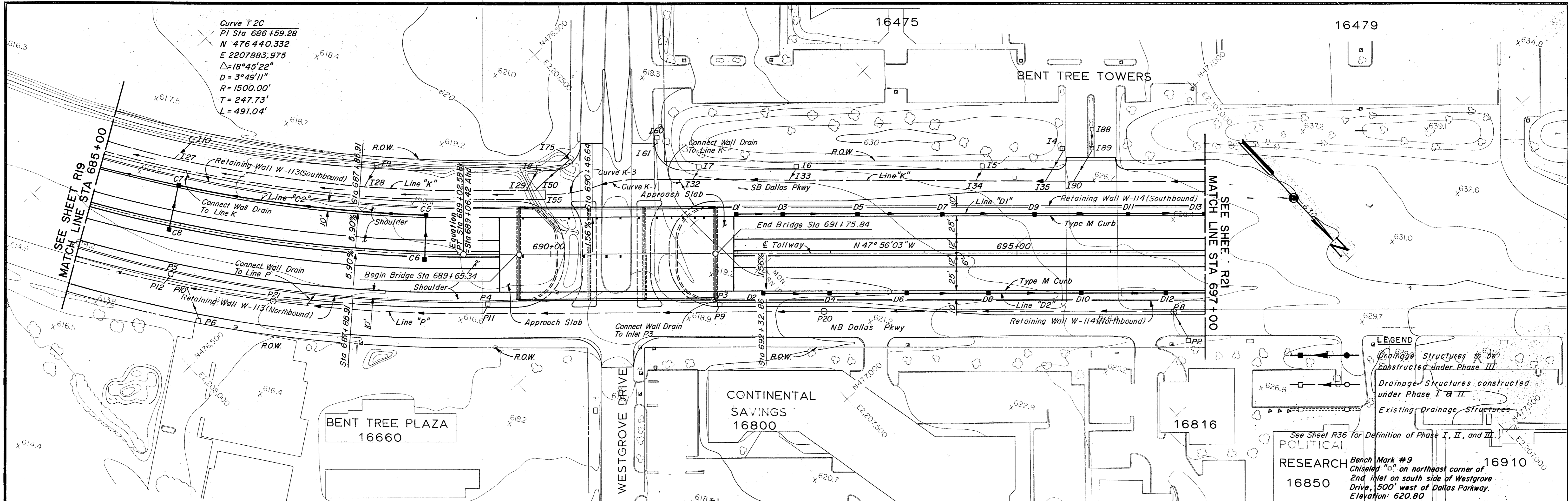
See Sheet R35 for Definition of Phases I, II, & III.

Bench Mark #9
Chiseled "a" on northeast corner of 2nd inlet on south side of Westgrove Drive, 500' west of Dallas Parkway.
Elevation: 620.80



- NOTES:**
- See Sheet R9 for Dallas Parkway Plan & Profile for Removals
 - See Sheets R70 - R72 for Box Culvert Details
 - See Sheets R30 - R31 for Ramp Paving Plans
 - See the following Sheets for Storm Sewer Profiles.
- | Line | Sheet |
|-------|-------|
| C, C1 | R 55 |
| C3 | R 56 |
| K | R 58 |
| C2 | R 53 |
- See Sheets W6 - W8 for Reinforcing Wall Details
 - For Shoulder and Median Barrier Details See Typical Sections

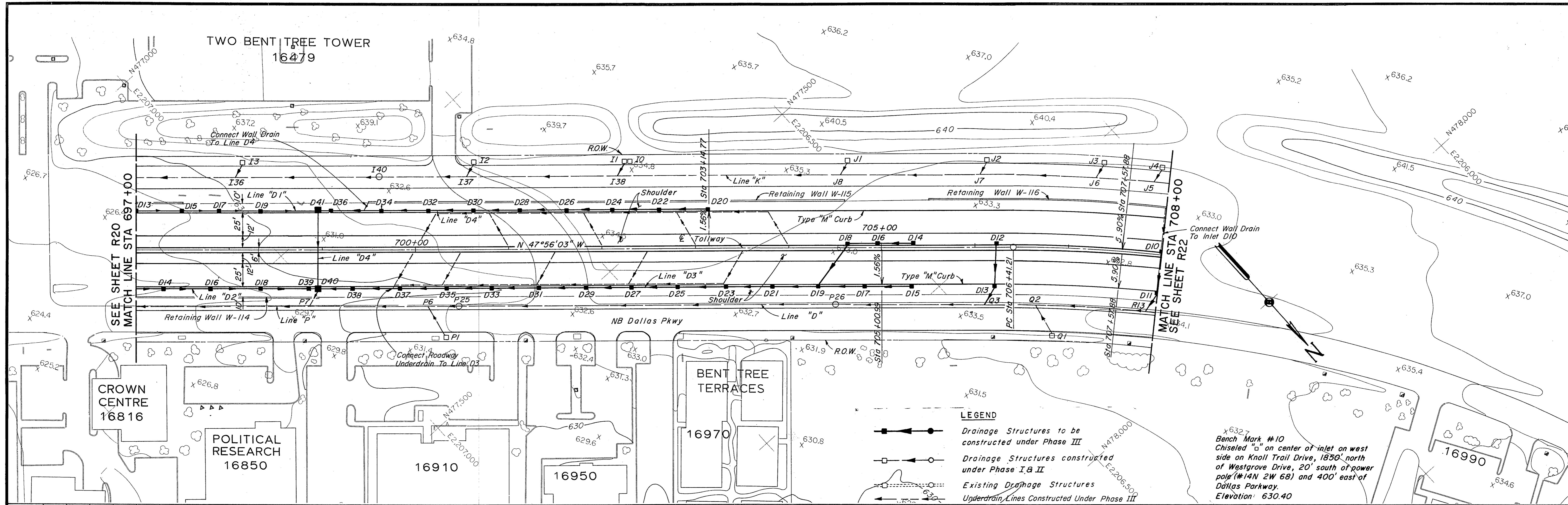
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
PAVING AND GRADING TOLLWAY			
STA 674+00 TO STA 685+00			
Gibbs & Hill, Inc.			SECTION VII
ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			
DRAWN	VER	DATE	9-14-83
CHECKED	DWC	DATE	5-4-84
DESIGNED	DWC	DATE	8-29-83
SCALE	1"=50' Hor. 1"=5' Vert		
CONTRACT NO. DNT-115 SHEET R19 OF R85			



- NOTES:**
- See Sheet R10 for Dallas Parkway Plan & Profile for Removals.
 - See Sheet R32 for Paving Plan - Westgrove Drive.
 - See Sheets W6 - W10 for Retaining Wall Details.
 - See Sheets S10 - S20 for Westgrove Drive Bridge Details.
 - See the following Sheets for Storm Sewer Profiles:

Line	Sheet
C2	R53
D1, D2	R61
 - For Shoulder and Median Barrier Details See Typical Sections.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY PAVING AND GRADING TOLLWAY STA 685+00 TO STA 697+00 Gibbs & Hill, Inc. <small>ENGINEERS DESIGNERS CONSTRUCTORS</small> SECTION VII			
<small>DRAWN</small> VER <small>CHECKED</small> DWC	<small>DATE</small> 7/8/83 <small>DATE</small> 5/7/84	<small>DESIGNED</small> DWC <small>SCALE</small> 1"=50' Hor 1"=5' Vert	<small>DATE</small> 6/30/83
CONTRACT NO. DNT-115 SHEET R20 OF R85			

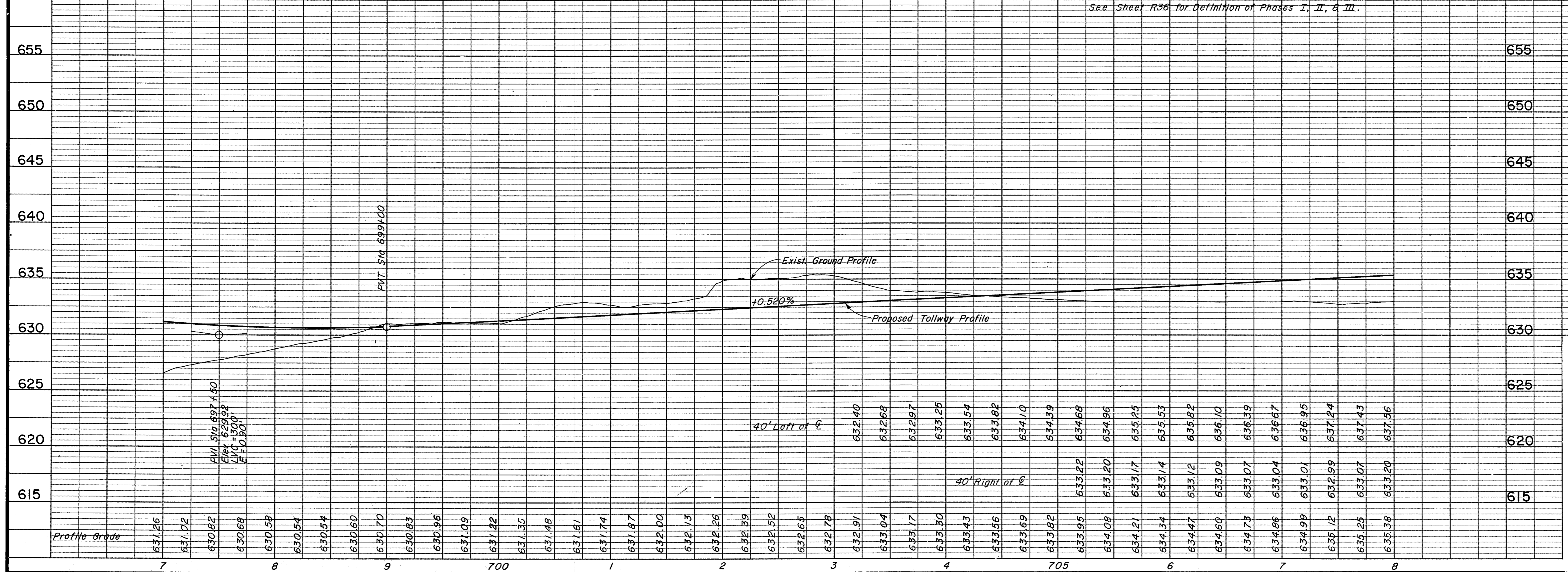


LEGEND

- Drainage Structures to be constructed under Phase III
- Drainage Structures constructed under Phase I, II
- Existing Drainage Structures
- Underdrain Lines Constructed Under Phase III

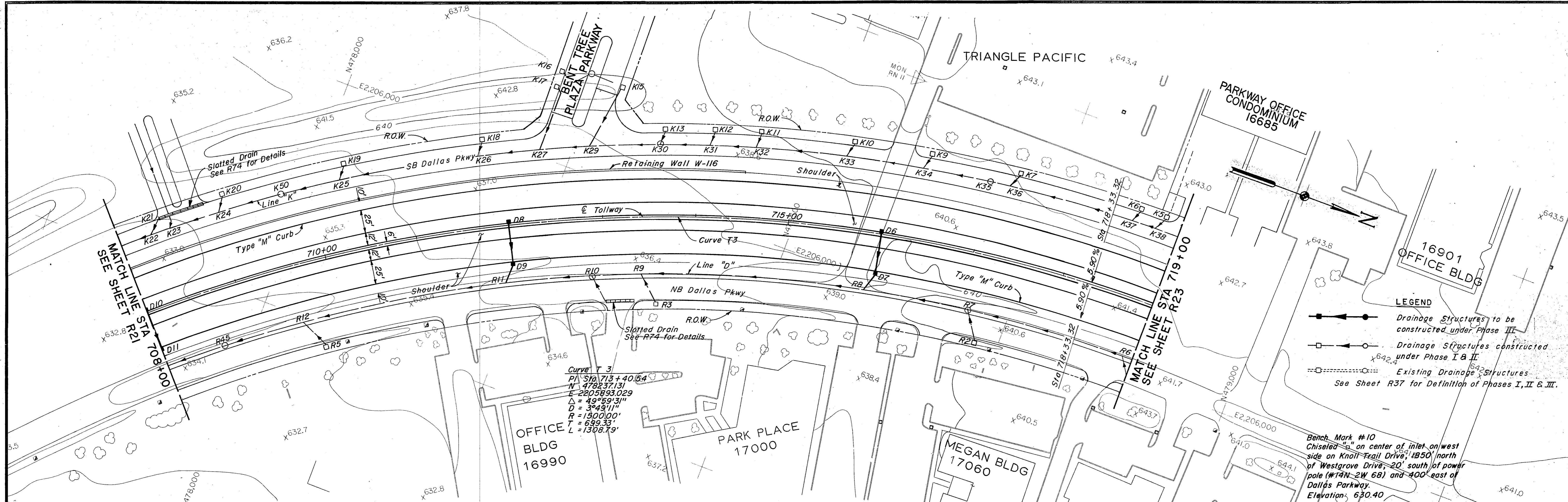
See Sheet R36 for Definition of Phases I, II, & III.

Bench Mark #10
Chiseled "o" on center of inlet on west side on Knoll Trail Drive, 1850' north of Westgrove Drive, 20' south of power pole (#14N 2W 68) and 400' east of Dallas Parkway.
Elevation: 630.40



- NOTES:**
- See Sheet R11 for Dallas Parkway Plan & Profile for Removals.
 - See Sheets W11 - W12 for Retaining Wall Details.
 - See Sheets R62 - R63 for Storm Sewer Profile.
 - For Shoulder and Median Barrier Details See Typical Sections.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
PAVING AND GRADING TOLLWAY STA 697+00 TO STA 708+00			
Gibbs & Hill, Inc. <small>ENGINEERS DESIGNERS CONSTRUCTORS</small>			SECTION VII
<small>DRAWN</small> VER <small>CHECKED</small> DWC	<small>DATE</small> 7/8/83 <small>DATE</small> 3/4/84	<small>DESIGNED</small> DWC <small>SCALE</small> 1"=50' Hor. 1"=5' Vert.	<small>DATE</small> 6/30/83
CONTRACT NO. DNT-115 SHEET R21 OF R85			



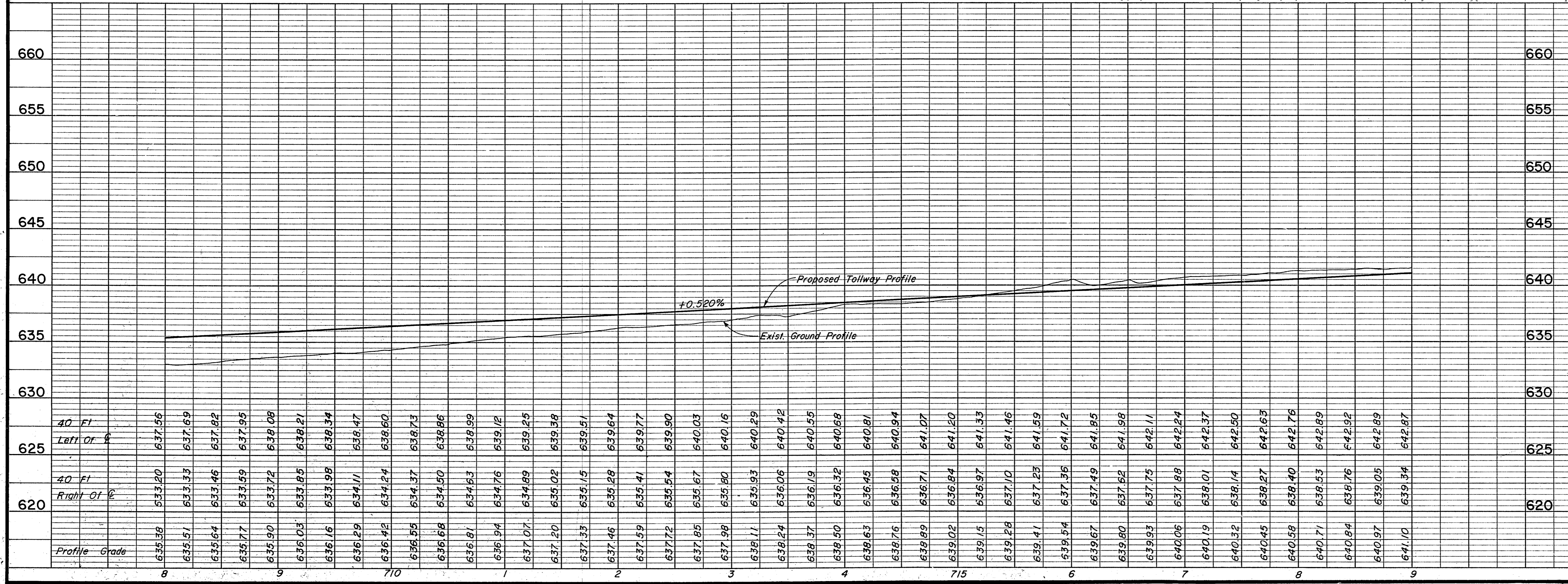
LEGEND

- Drainage Structures to be constructed under Phase III
- Drainage Structures constructed under Phase I & II
- Existing Drainage Structures

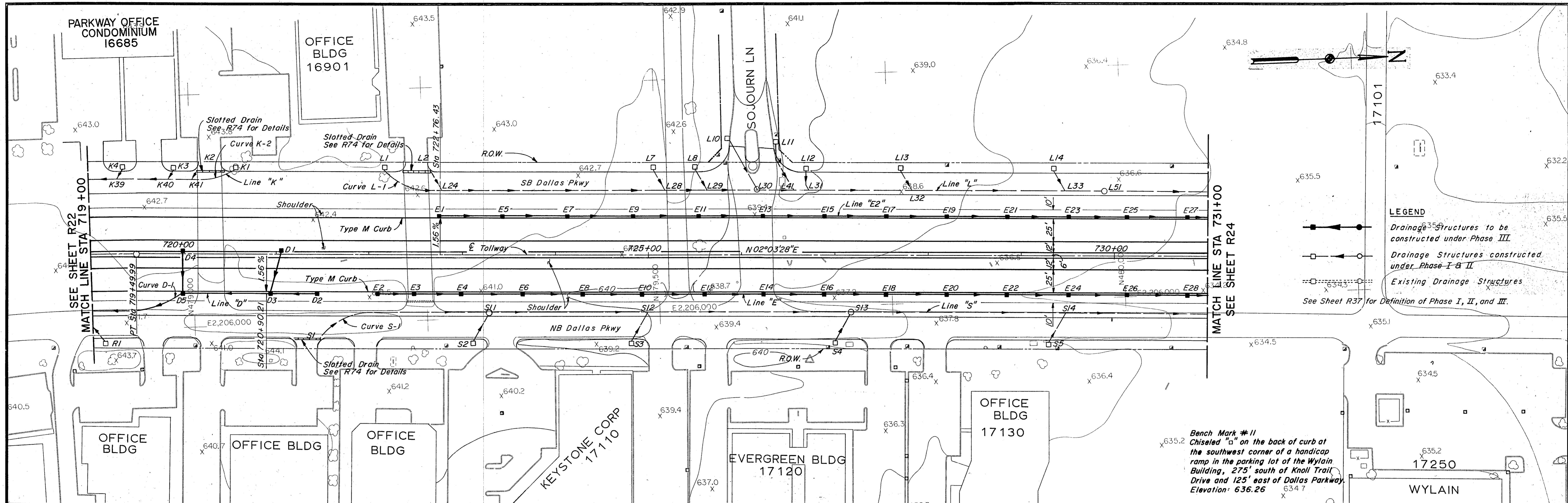
See Sheet R37 for Definition of Phases I, II & III.

NOTES

1. See Sheet R12 for Dallas Parkway Plan & Profile for Removals.
2. See Sheet W12 for Retaining Wall Details.
3. See Sheet R62 for Storm Sewer Details.
4. For Shoulder and Median Barrier Details See Typical Sections.



NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
PAVING AND GRADING TOLLWAY STA 708+00 TO STA 719+00			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS			SECTION VII
DRAWN VER	DATE 7/8/83	DESIGNED DWC	DATE 6/30/83
CHECKED DWC	DATE 5/4/84	SCALE 1"=50' Hor 1"=5' Vert	
CONTRACT NO. DNT-115 SHEET R22 OF R85			

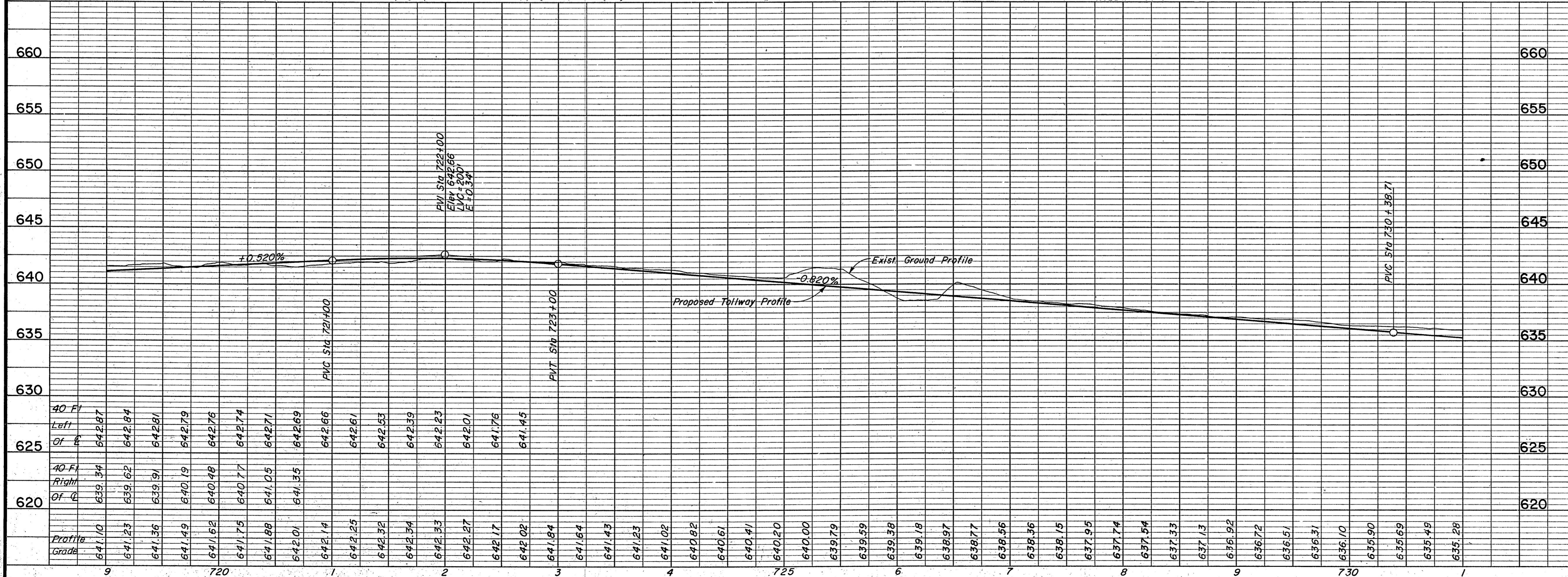


LEGEND

- Drainage Structures to be constructed under Phase III.
- Drainage Structures constructed under Phase I & II.
- Existing Drainage Structures

See Sheet R37 for Definition of Phase I, II, and III.

Bench Mark #11
Chiseled "a" on the back of curb at the southwest corner of a handicap ramp in the parking lot of the Wylain Building, 275' south of Knoll Trail Drive and 125' east of Dallas Parkway.
Elevation: 636.26

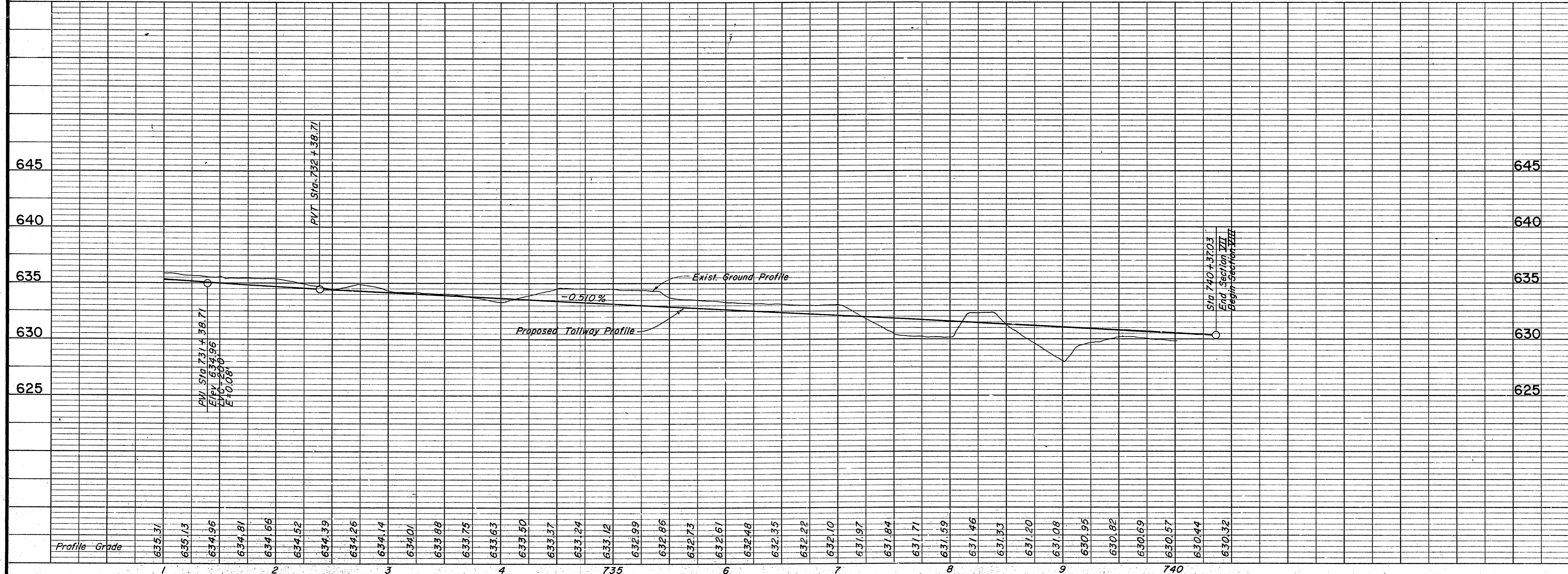
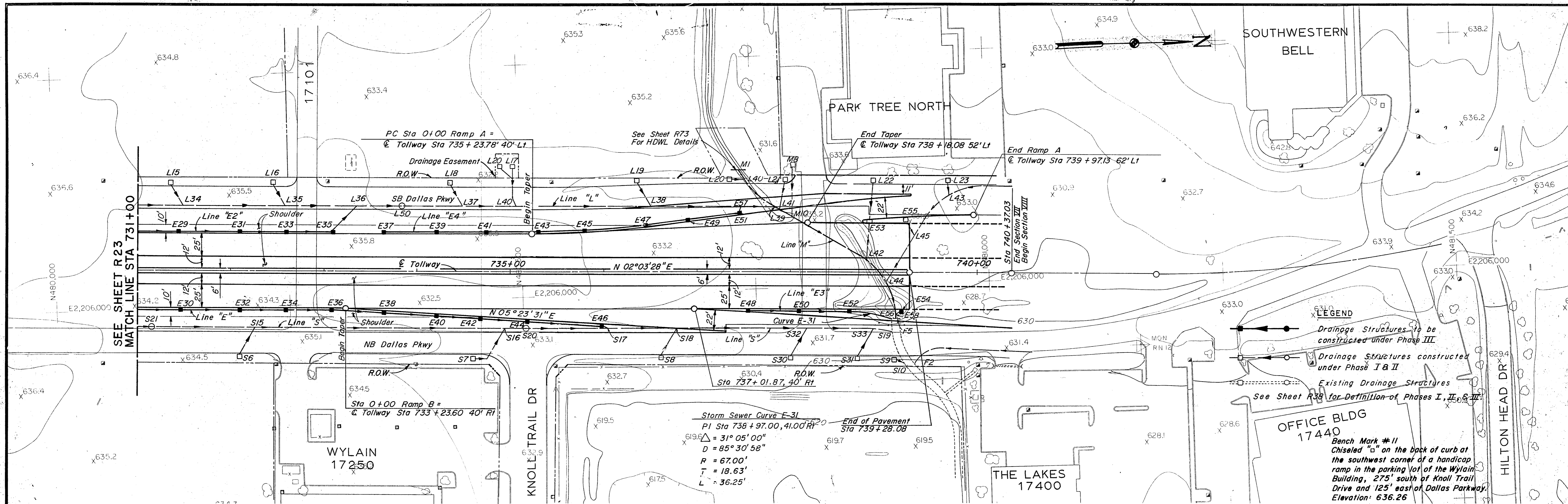


NOTES:

- See Sheet R13 for Dallas Parkway Plan & Profile for Removals.
- See the following sheets for Storm Sewer Profiles:

Line	Sheet
D	R62
E, E2	R65
- For Shoulder and Median Barrier Details See Typical Sections.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
PAVING AND GRADING TOLLWAY STA 719+00 TO STA 731+00			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS			SECTION VII
DRAWN VER	DATE 7/8/83	DESIGNED DWC	DATE 6/30/83
CHECKED DWC	DATE 5/4/84	SCALE 1"=50' Hor 1"=5' Vert	
CONTRACT NO. DNT-115 SHEET R23 OF R85			



LEGEND

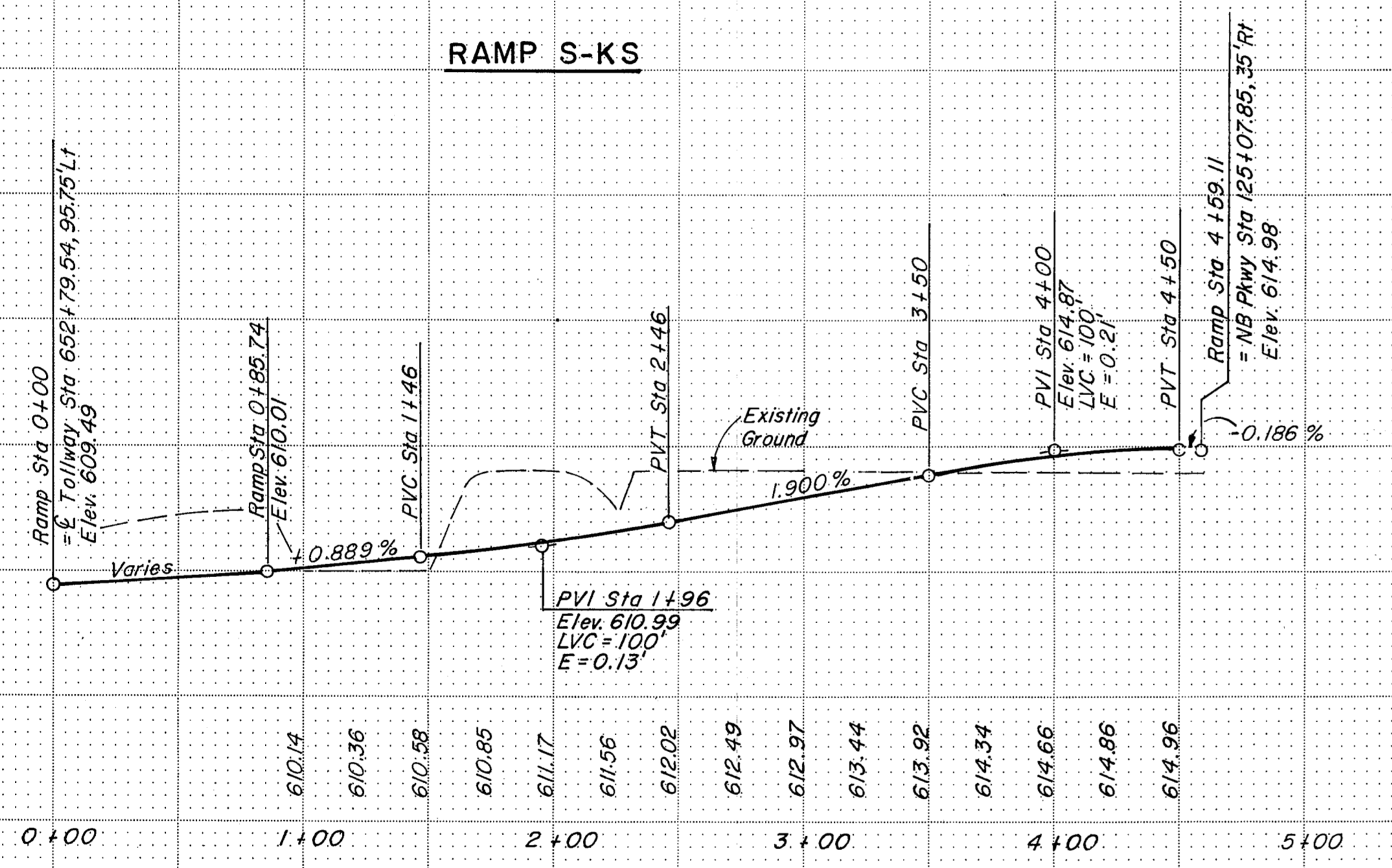
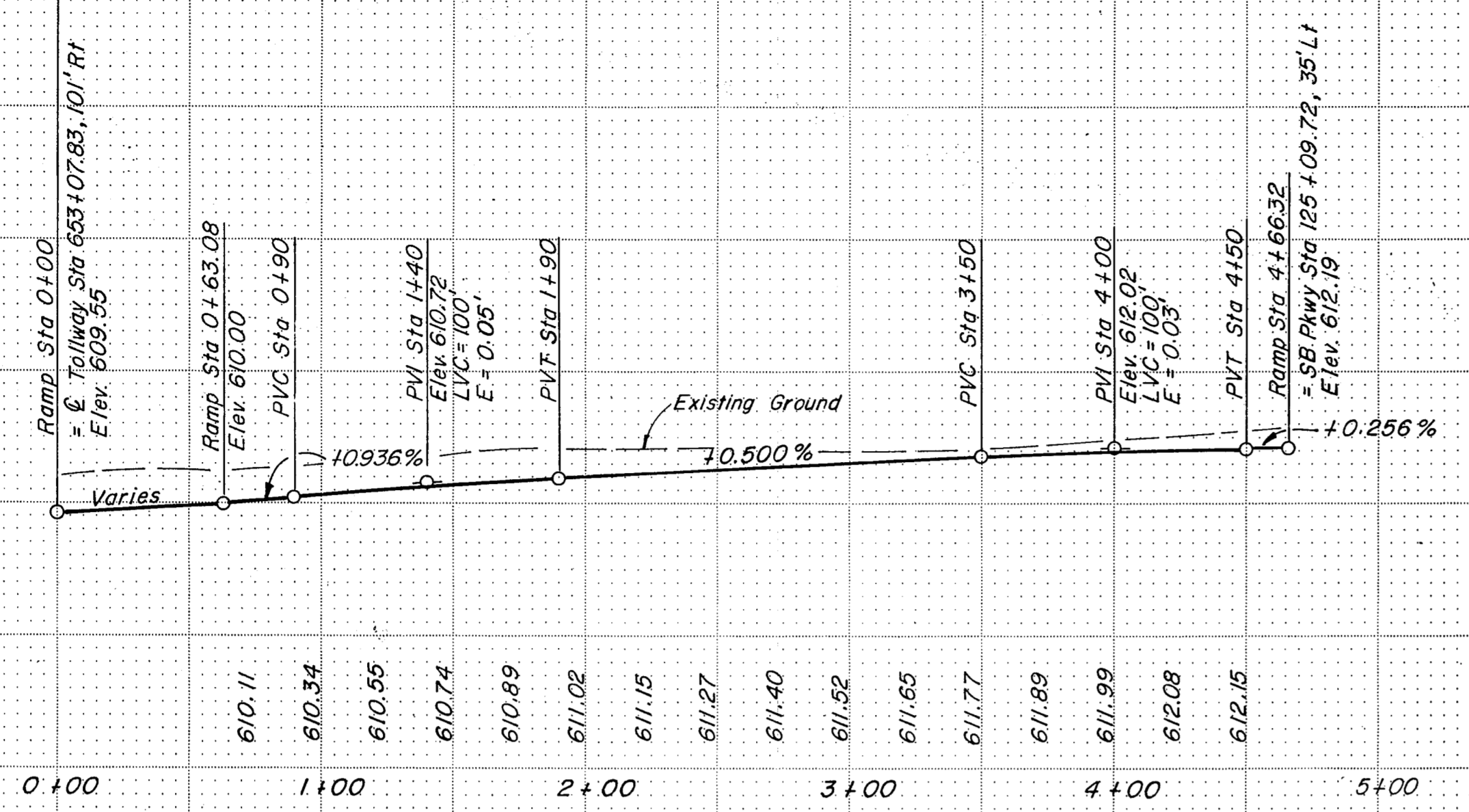
- Drainage Structures to be constructed under Phase III
- Drainage Structures constructed under Phase I & II
- Existing Drainage Structures

See Sheet R38 for Definition of Phases I, II, & III.

OFFICE BLDG 17440
Bench Mark #11
Chiseled "a" on the back of curb at the southwest corner of a handicap ramp in the parking lot of the Wylain Building, 275' south of Knoll Trail Drive and 125' east of Dallas Parkway.
Elevation: 636.26

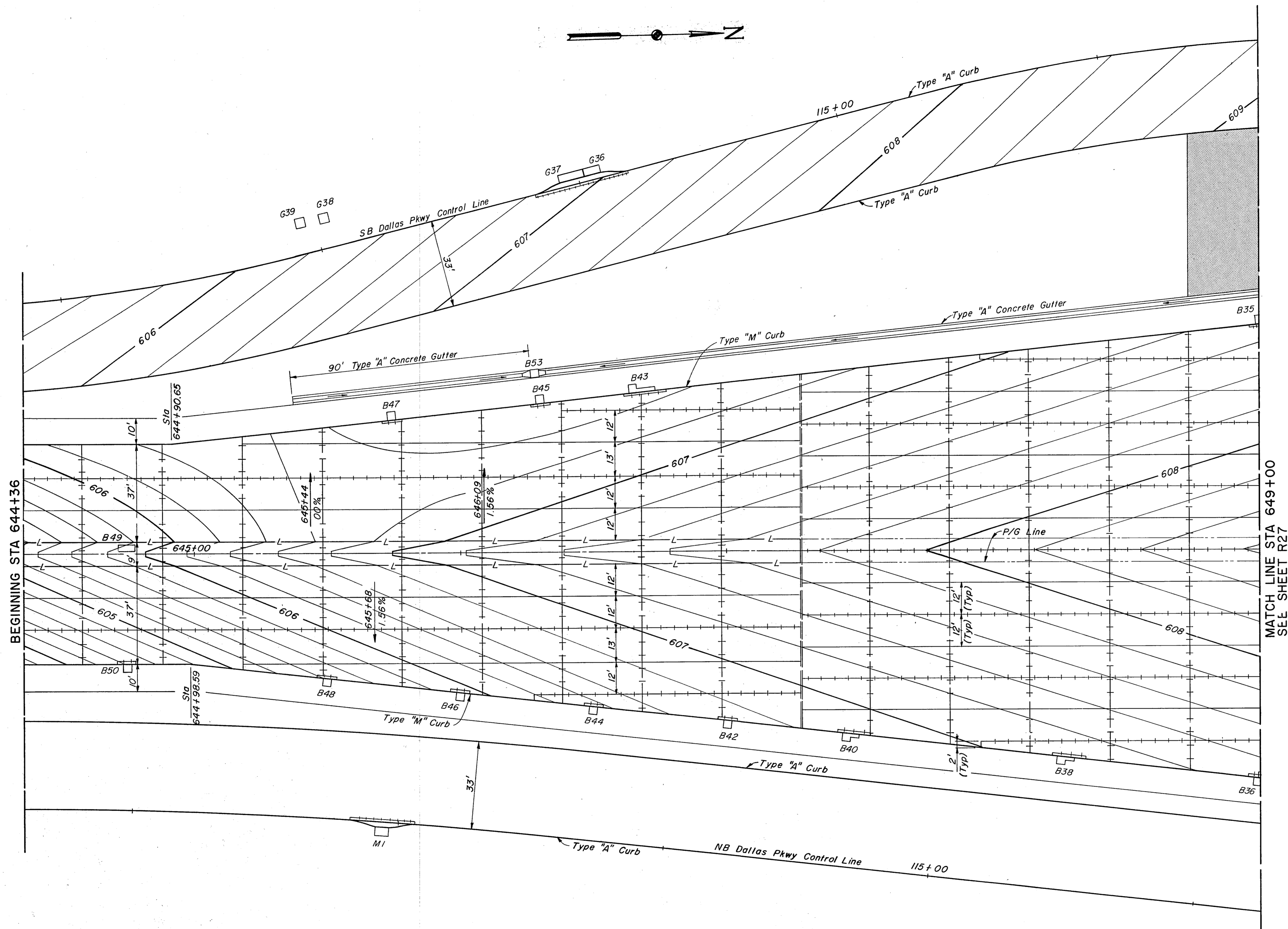
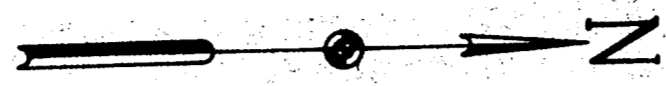
- NOTES:**
- See Sheet R14 for Dallas Parkway Plan & Profile and Removals.
 - See Sheet R33 for Paving Plan - Ramps A, B & C.
 - See Sheet R73 for Culvert Details.
 - See Sheet R65 for Storm Sewer Profiles.
 - For Shoulder and Median Barrier Details See Typical Sections.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY PAVING AND GRADING TOLLWAY STA 731+00 TO STA 740+37 Gibbs & Hill, Inc. <small>ENGINEERS DESIGNERS CONSTRUCTORS</small> DALLAS			
			SECTION VII
<small>DRAWN</small> VER <small>CHECKED</small> DWG	<small>DATE</small> 1/8/83 <small>DATE</small> 5/3/84	<small>DESIGNED</small> DWC <small>SCALE</small> 1"=50' Hor. 1"=5' Vert.	<small>DATE</small> 6/30/83
CONTRACT NO. DNT-115. SHEET R24 OF R85			



NOTE: See Paving Plan Sheets R27 And R28 For Additional Elevations

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
RAMP PROFILES			
Gibbs & Hill, Inc.			
MADE	MGB	DATE 4/24/84	TRACED MAV
CHECKED	DWC	DATE 7/28/84	SCALE 1"=50' Hor 1"=5' Vert
CONTRACT NO. DNT-115 SHEET R25 OF R85			



- Notes:
- All pavement contours shown are finished top of pavement elevations.
 - See Standard Drawings for joints and joint spacing.

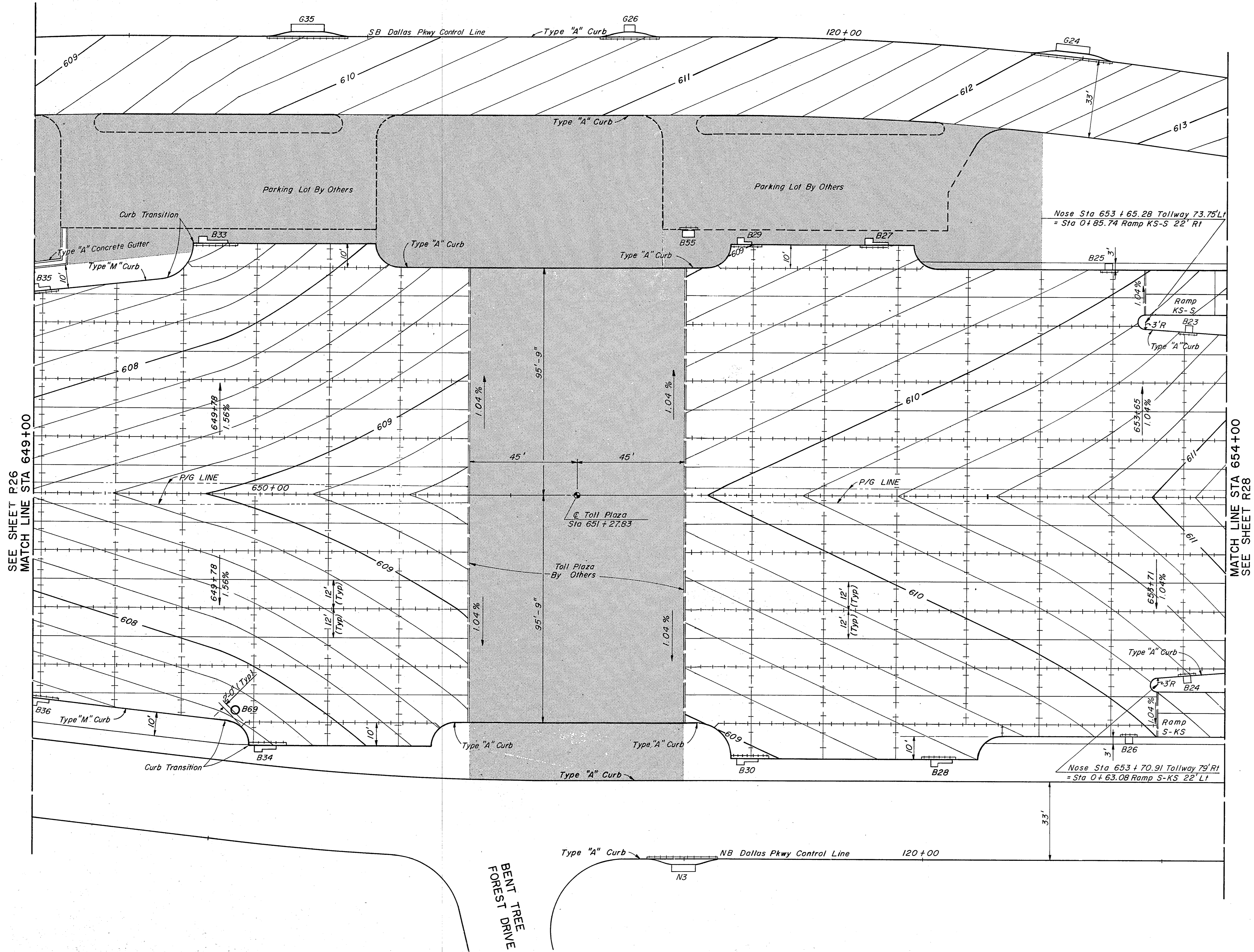
LEGEND

—+—+—+	Longitudinal Construction Joint (LC)
—/—/—/	Sawed Longitudinal Joint (SL)
====	Transverse Expansion Joint (E)
—+—+—+	Transverse Contraction Joint (SC)
— L —	Longitudinal Construction Joint Without Tie Bar (L)
▨	Building Project Limits

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
PAVING PLAN			
TOLL PLAZA AREA			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN AELT	DATE 5/11/83	DESIGNED MGB	DATE 5/5/83
CHECKED DWC	DATE 5/14/84	SCALE 1" = 20'	
CONTRACT NO. DNT-115 SHEET R26 OF R85			



- Notes:
1. All pavement contours shown are finished top of pavement elevations.
 2. See Standard Drawings for joints and joint spacing.



LEGEND

	Longitudinal Construction Joint (LC)
	Sawn Longitudinal Joint (SL)
	Transverse Expansion Joint (E)
	Transverse Contraction Joint (SC)
	Building Project Limits

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
PAVING PLAN			
TOLL PLAZA AREA			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN <i>AE</i>	DATE 5/12/83	DESIGNED <i>MGB</i>	DATE 5/5/83
CHECKED <i>DWC</i>	DATE 5/14/84	SCALE 1" = 20'	
CONTRACT NO. DNT-115 SHEET R27 OF R85			

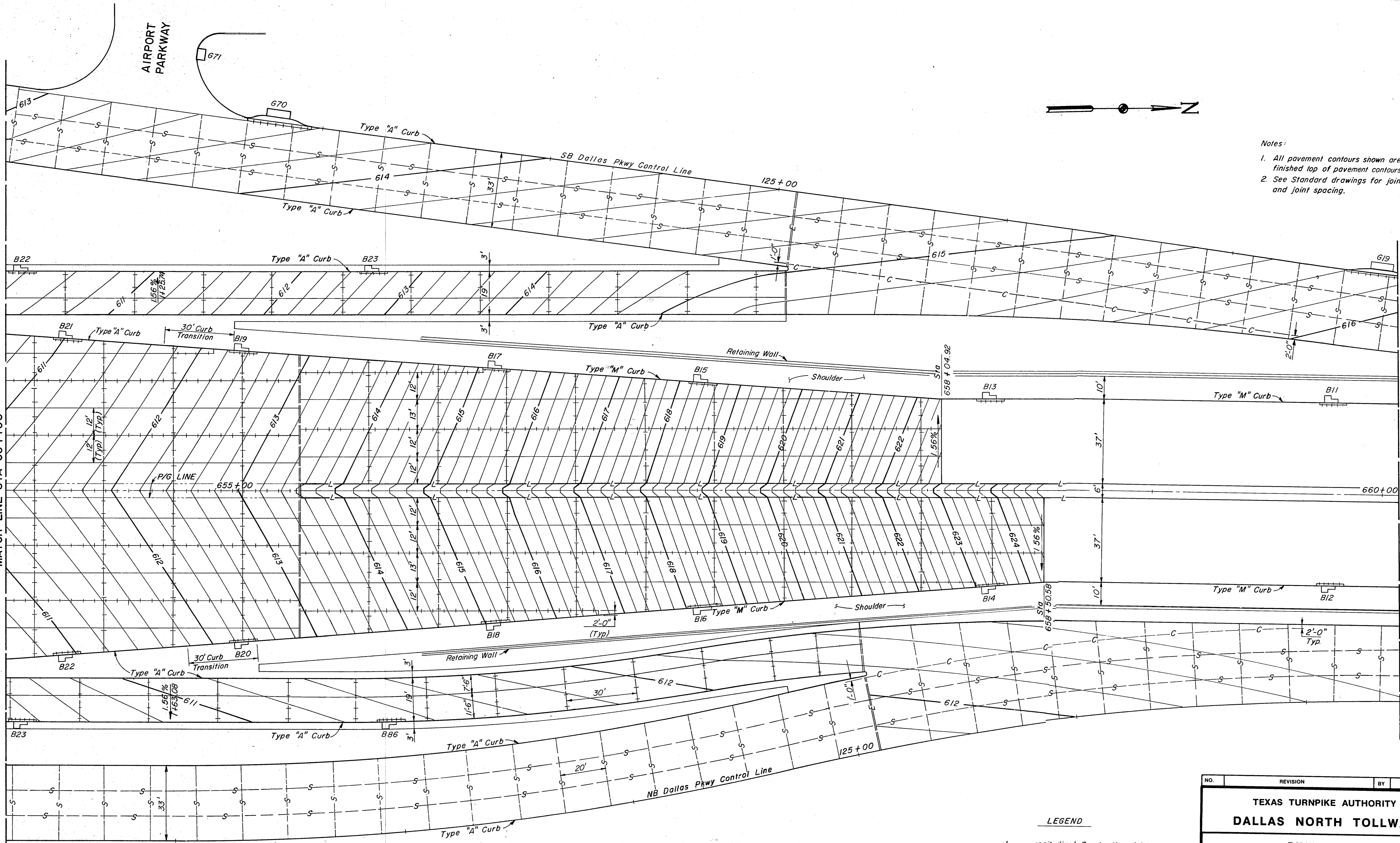
AIRPORT PARKWAY



- Notes:
1. All pavement contours shown are finished top of pavement contours.
 2. See Standard drawings for joints and joint spacing.

SEE SHEET R27
MATCH LINE STA 654+00

END STA 660+00

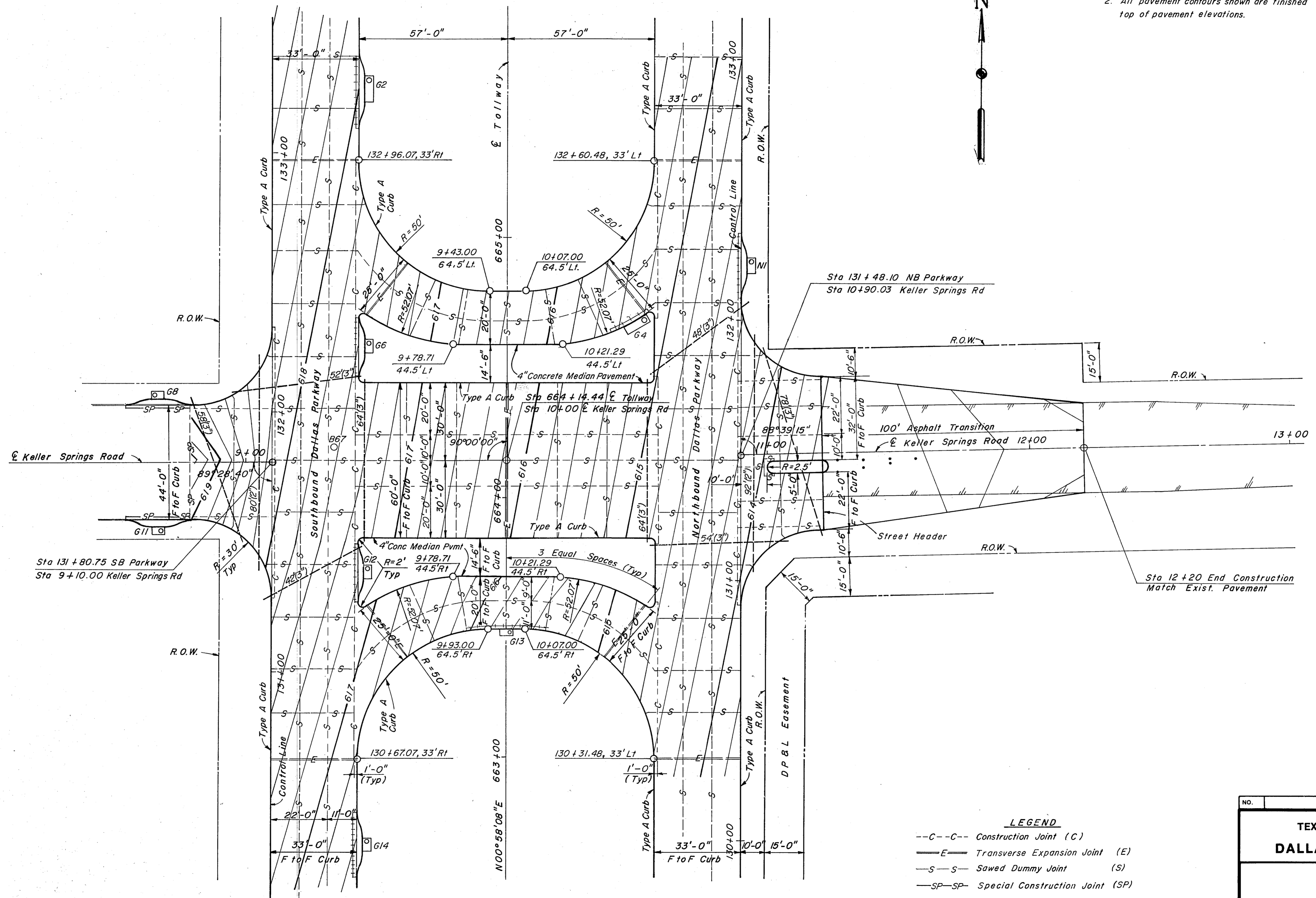


LEGEND

- L — longitudinal Construction Joint without Tie Bar (L)
- LC — longitudinal Construction Joint (LC)
- SL — sawed Longitudinal Joint (SL)
- E — transverse Expansion Joint (E)
- SC — transverse Contraction Joint (SC)
- S — sawed Dummy Joint (S)
- C — construction Joint (C)

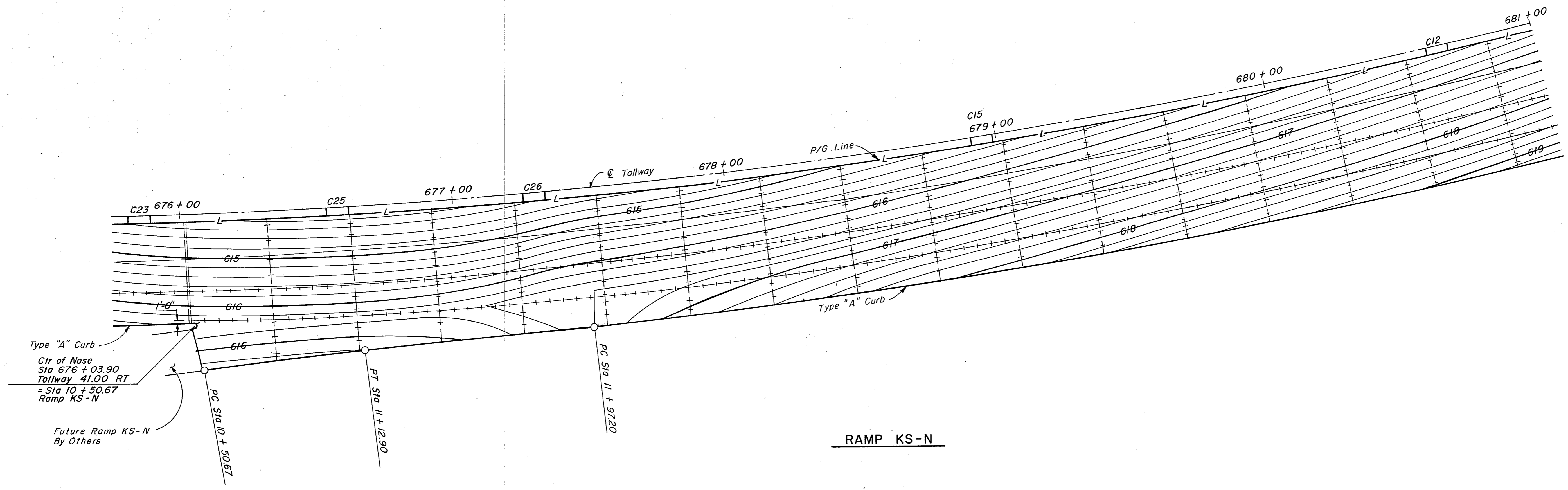
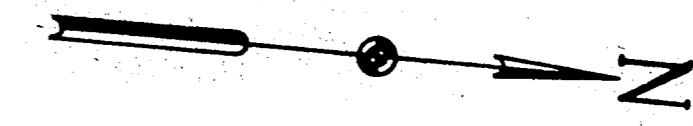
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
PAVING PLAN TOLL PLAZA AREA			
Gibbs & Hill, Inc. <small>ENGINEERS DESIGNERS CONSTRUCTORS</small> <small>DALLAS</small>			SECTION VII
<small>DRAWN</small> AELT <small>CHECKED</small> DWG	<small>DATE</small> 5/12/83 <small>DATE</small> 5/17/84	<small>DESIGNED</small> MGB <small>SCALE</small> 1" = 20'	<small>DATE</small> 5/16/83
CONTRACT NO. DNT-115 SHEET R28 OF R85			

NOTES:
 1. All curb shall be Type "A".
 2. All pavement contours shown are finished top of pavement elevations.

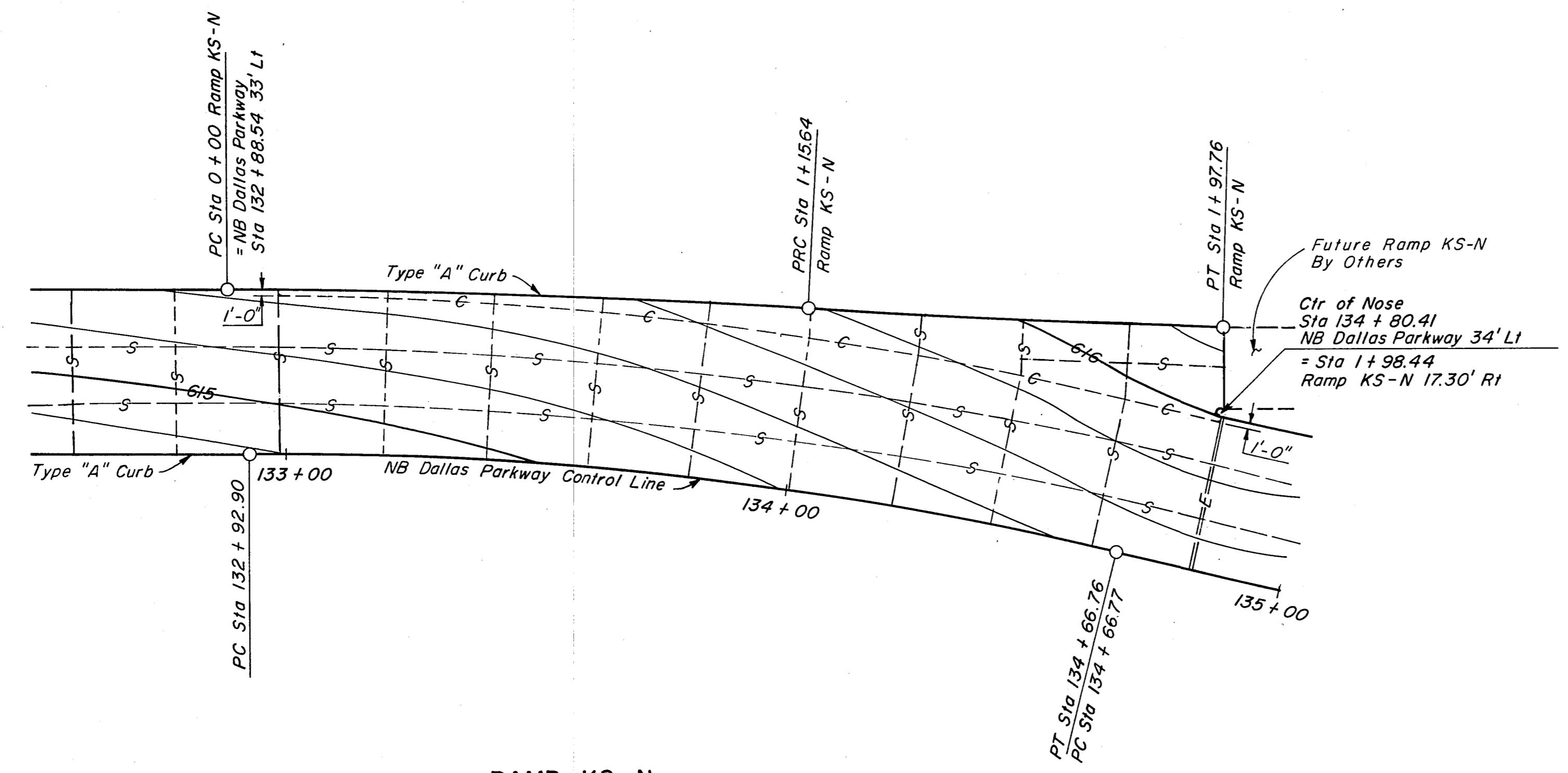


LEGEND
 --C--C-- Construction Joint (C)
 —E— Transverse Expansion Joint (E)
 —S—S— Sawed Dummy Joint (S)
 —SP—SP— Special Construction Joint (SP)
 - - - - - PVC Conduit

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
PAVING PLAN			
KELLER SPRINGS ROAD			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN	VER	DATE	4-4-83
DESIGNED	DWC	DATE	4-1-83
CHECKED	DWC	DATE	4-5-83
SCALE		1" = 20'	
CONTRACT NO. DNT 115 SHEET R 29 OF R 85			



RAMP KS-N

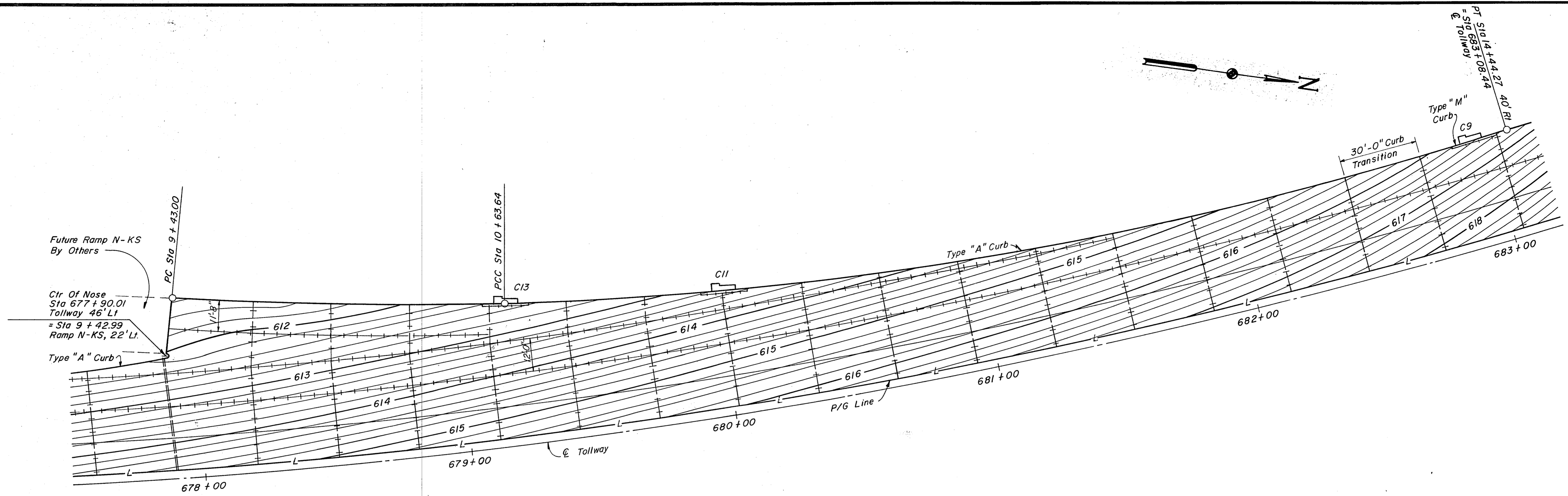


RAMP KS-N

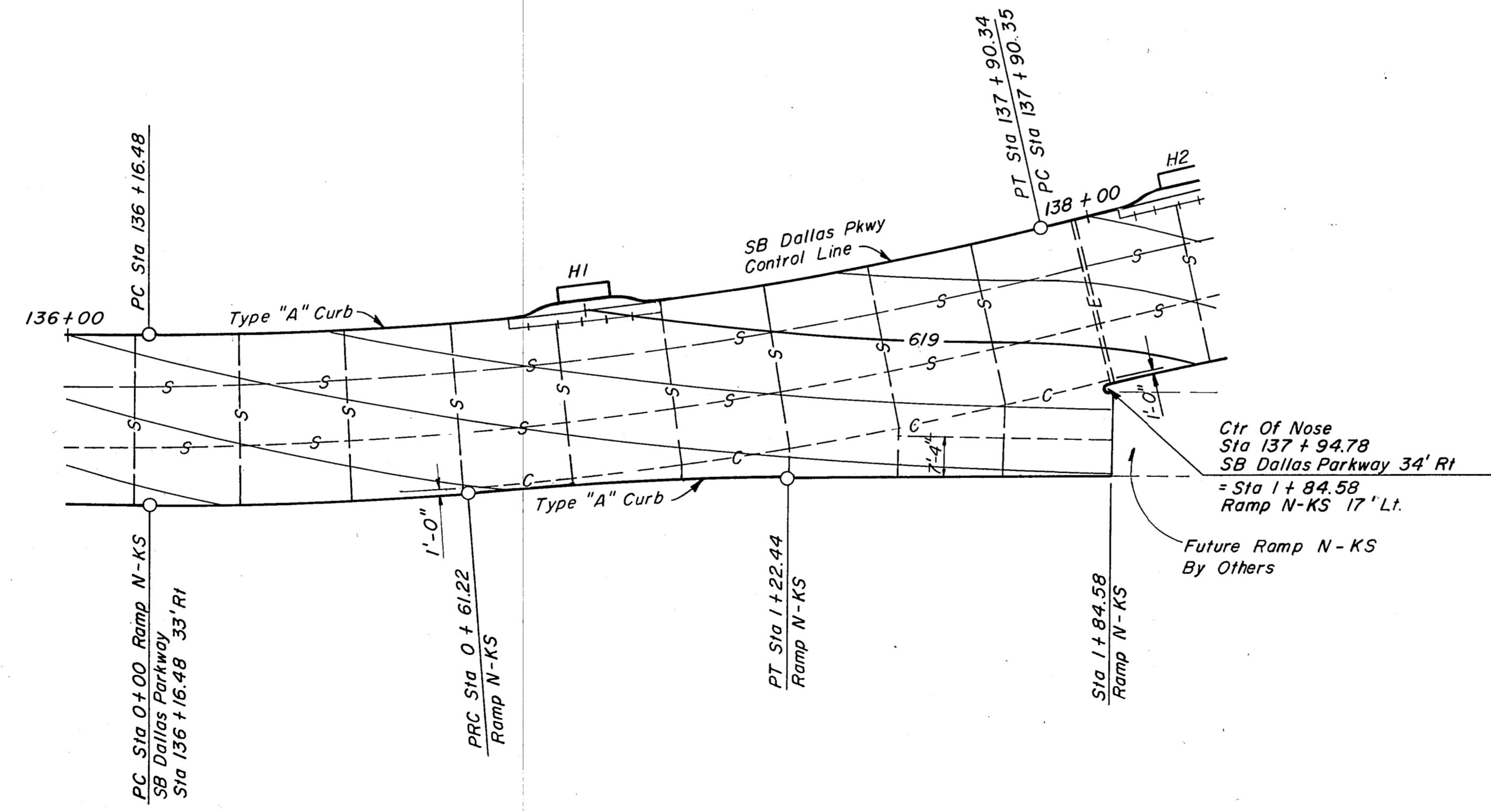
LEGEND

- +++++ Longitudinal Construction Joint (LC)
- Sawed Longitudinal Joint (SL)
- ==E== Transverse Expansion Joint (E)
- +++ Transverse Contraction Joint (SC)
- S- Sawed Dummy Joint (S)
- L- Longitudinal Construction Joint w/o Tie Bar(L)
- C- Construction Joint (C)

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
PAVING PLAN			
RAMP KS-N			
Gibbs & Hill, Inc.			SECTION VII
<small>ENGINEERS DESIGNERS CONSTRUCTORS DALLAS</small>			
DRAWN <i>AELT</i>	DATE <i>4/18/84</i>	DESIGNED <i>MGB</i>	DATE <i>4/16/84</i>
CHECKED <i>DWC</i>	DATE <i>5/4/84</i>	SCALE <i>1" = 20'</i>	
CONTRACT NO. DNT-115 SHEET R30 OF R85			



RAMP N-KS

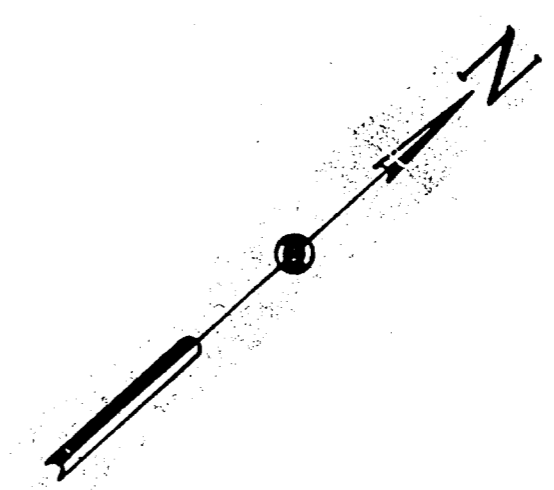


RAMP N-KS

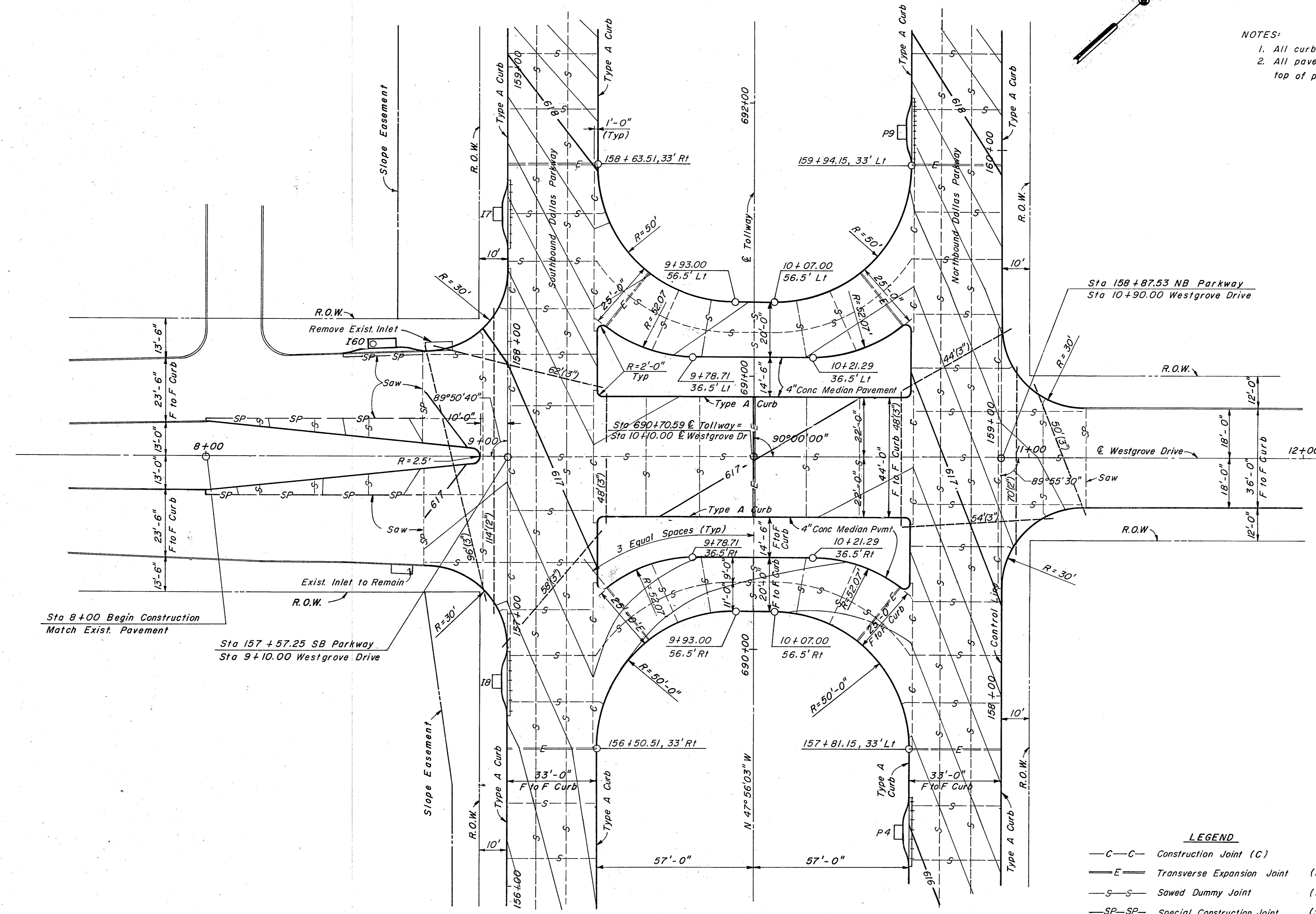
LEGEND

- +++++ Longitudinal Construction Joint (LC)
- Sawed Longitudinal Joint (SL)
- ==E== Transverse Expansion Joint (E)
- ++++ Transverse Contraction Joint (SC)
- S- Sawed Dummy Joint (S)
- L- Longitudinal Construction Joint w/o Tie Bar(L)
- C- Construction Joint (C)

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
PAVING PLAN RAMP N-KS			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN <i>AE</i>	DATE <i>4/17/84</i>	DESIGNED <i>MGB</i>	DATE <i>4/12/84</i>
CHECKED <i>DWC</i>	DATE <i>5/4/84</i>	SCALE <i>1" = 20'</i>	
CONTRACT NO. DNT-115 SHEET R31 OF R85			



NOTES:
 1. All curb shall be Type "A".
 2. All pavement contours shown are finished top of pavement elevations.



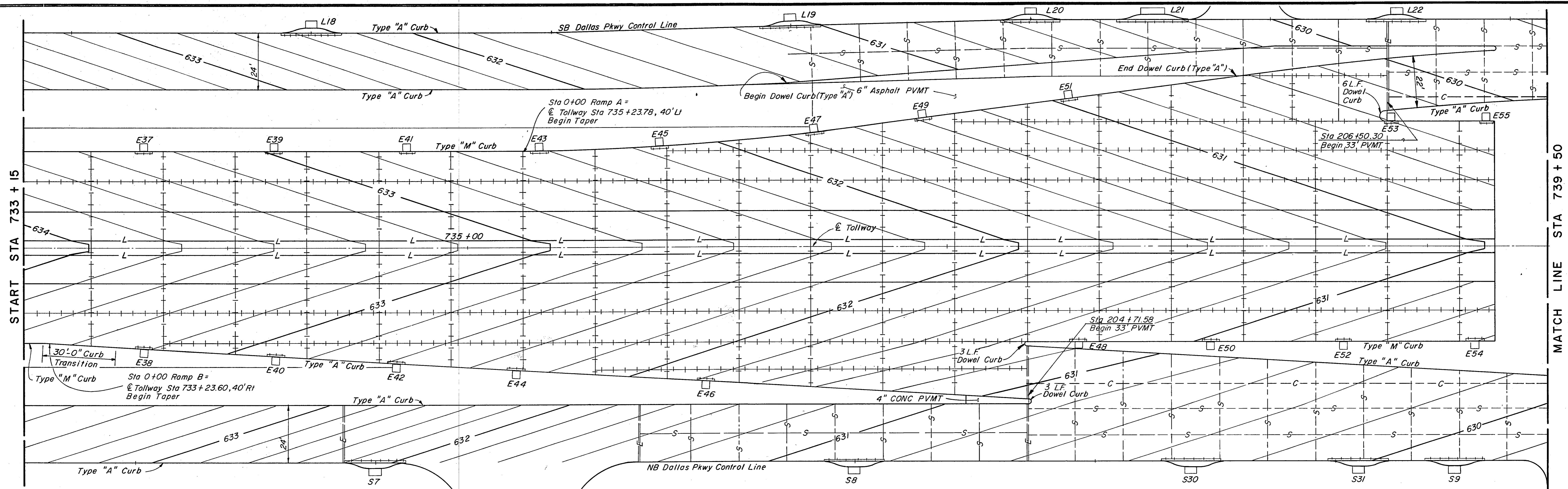
Sta 8+00 Begin Construction
 Match Exist. Pavement

Sta 157+57.25 SB Parkway
 Sta 9+10.00 Westgrove Drive

LEGEND

—C—C—	Construction Joint (C)	
—E—E—	Transverse Expansion Joint (E)	(E)
—S—S—	Sawed Dummy Joint (S)	(S)
—SP—SP—	Special Construction Joint (SP)	(SP)
----	PVC Conduit	

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
PAVING PLAN WESTGROVE DRIVE			
Gibbs & Hill, Inc. <small>ENGINEERS DESIGNERS CONSTRUCTORS DALLAS</small>			SECTION VII
<small>DRAWN</small> CJB <small>CHECKED</small> DWC	<small>DATE</small> 4/4/83 <small>DATE</small> 4/5/83	<small>DESIGNED</small> DWC <small>SCALE</small> 1" = 20'	<small>DATE</small> 4/1/83
CONTRACT NO. DNT-115 SHEET R 32 OF R 85			



START STA 733 + 15

MATCH LINE STA 739 + 50

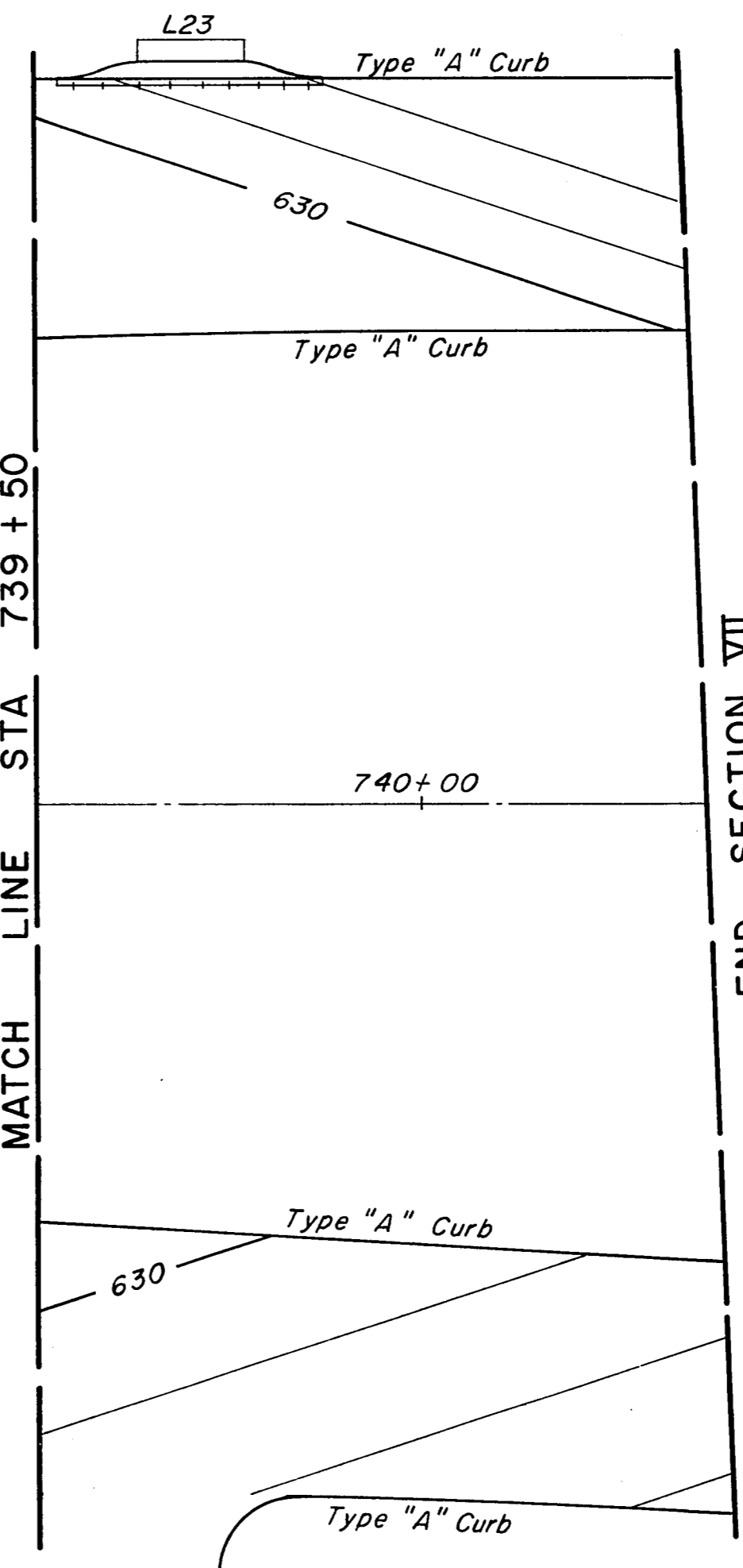
KNOLL TRAIL DRIVE

MATCH LINE STA 739 + 50

END SECTION VII



- LEGEND**
- +—+— Longitudinal Construction Joint (LC)
 - /—/— Sawed Longitudinal Joint (SL)
 - E—E— Transverse Expansion Joint (E)
 - +—+— Transverse Contraction Joint (SC)
 - S—S— Sawed Dummy Joint (S)
 - L—L— Longitudinal Construction Joint W/O Tie Bar(L)
 - C—C— Construction Joint (C)



NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
PAVING PLAN RAMPS A & B			
Gibbs & Hill, Inc. <small>ENGINEERS DESIGNERS CONSTRUCTORS DALLAS</small>			SECTION VII
<small>DRAWN</small> ELB <small>CHECKED</small> DWC	<small>DATE</small> 5/01/84 <small>DATE</small> 5/8/84	<small>DESIGNED</small> MGB <small>SCALE</small> 1" = 20'	<small>DATE</small> 4/30/84
CONTRACT NO. DNT-115 SHEET R33 OF R85			

LEGEND

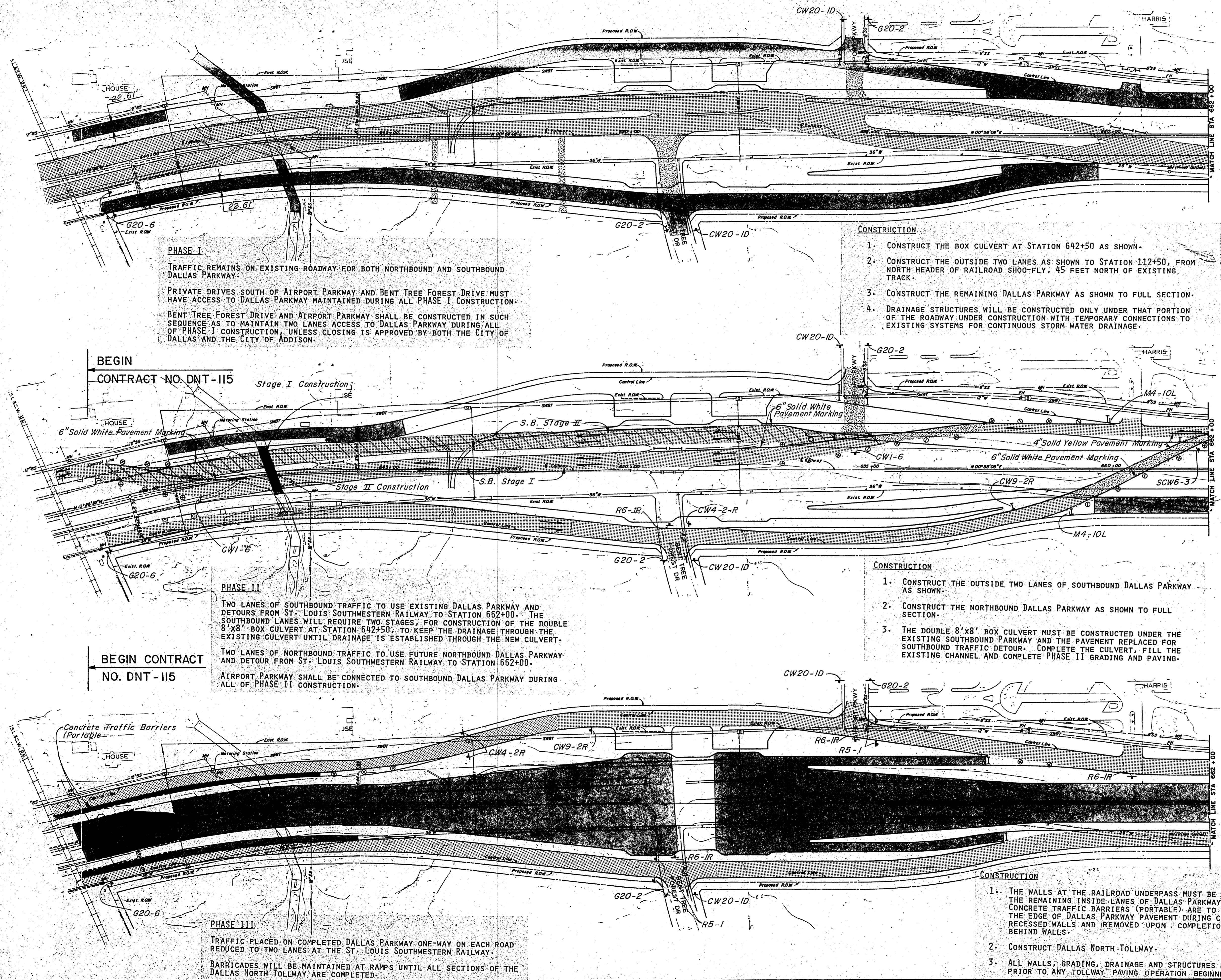
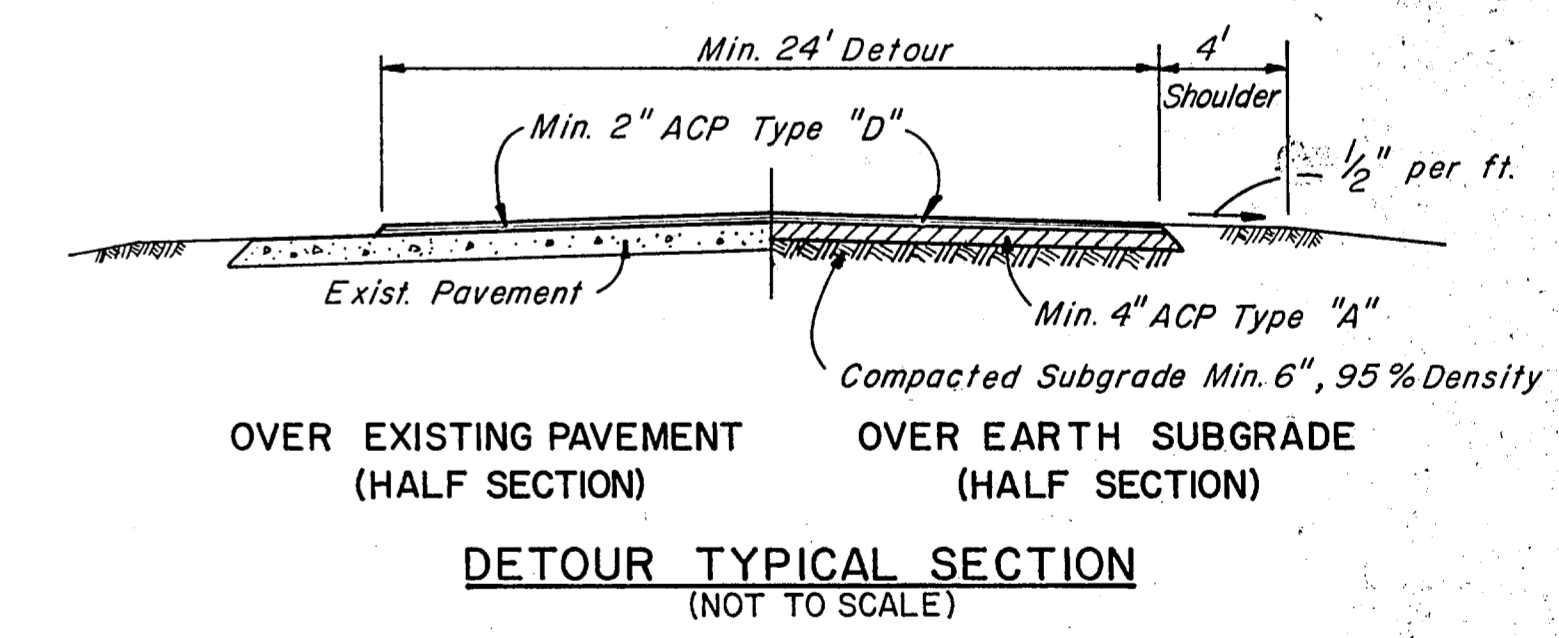
- Construction
- Traffic Lanes
- Detours
- Barricades
- Vertical Panel
- Vertical Panel With Flashers
- Barrel With Flasher
- Barrel
- Sign

BARRICADES & SIGNS

- TYPE III BARRICADES WITH WARNING LIGHTS SHALL BE INSTALLED AT KELLER SPRINGS ROAD AND WESTGROVE DRIVE TO SEPARATE TRAFFIC FROM CONSTRUCTION LIMITS, AS DIRECTED BY THE ENGINEER FOR EACH PHASE.
- TYPE I BARRICADES WITH FLASHERS SHALL BE INSTALLED AT ALL DRIVES TO SEPARATE TRAFFIC FROM CONSTRUCTION LIMITS, AS DIRECTED BY THE ENGINEER.
- SIGNS CW-20-1D AND G20-2 ON FIXED SUPPORTS SHALL BE INSTALLED ON EACH SIDE STREET, APPROXIMATELY 100' OUTSIDE THE WORK AREAS, INCLUDING DETOURS.
- REGULATORY SIGNS SHALL BE INSTALLED IN ACCORDANCE WITH THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND AS DIRECTED BY THE ENGINEER.
- AT LEAST 48 HOURS PRIOR TO CLOSING ANY DRIVEWAY, THE CONTRACTOR SHALL NOTIFY EACH PROPERTY OWNER OR OWNER'S REPRESENTATIVE OF ALL DRIVEWAY CLOSINGS AND THE NECESSITY OF ALTERNATE ACCESS FROM ADDISON ROAD OR KNOLL TRAIL DRIVE. DRIVEWAY ACCESS MUST BE MAINTAINED CONTINUOUSLY TO ALL BUILDINGS.

STRIPING (TEMPORARY)

- TRAFFIC EDGE LINES FOR DETOURS SHALL BE 6-INCH SOLID WHITE PAVEMENT MARKINGS.
- LINES SEPARATING TWO-WAY TRAFFIC SHALL BE DOUBLE 4-INCH SOLID YELLOW PAVEMENT MARKING.
- LANE SEPARATION LINE SHALL BE DASHED WITH 4-INCH BY 10-FOOT SOLID WHITE PAVEMENT MARKING WITH 30-FOOT GAPS.
- TURNING LANES SHALL BE SEPARATED FROM THROUGH TRAFFIC BY A 4-INCH SOLID WHITE PAVEMENT MARKING.
- SEE SPECIAL PROVISION TO ITEM 662, "CONSTRUCTION PAVEMENT MARKINGS" FOR THE TYPE OF STRIPING TO BE USED.



PHASE I
TRAFFIC REMAINS ON EXISTING ROADWAY FOR BOTH NORTHBOUND AND SOUTHBOUND DALLAS PARKWAY.
PRIVATE DRIVES SOUTH OF AIRPORT PARKWAY AND BENT TREE FOREST DRIVE MUST HAVE ACCESS TO DALLAS PARKWAY MAINTAINED DURING ALL PHASE I CONSTRUCTION.
BENT TREE FOREST DRIVE AND AIRPORT PARKWAY SHALL BE CONSTRUCTED IN SUCH SEQUENCE AS TO MAINTAIN TWO LANES ACCESS TO DALLAS PARKWAY DURING ALL OF PHASE I CONSTRUCTION, UNLESS CLOSING IS APPROVED BY BOTH THE CITY OF DALLAS AND THE CITY OF ADDISON.

- CONSTRUCTION**
- CONSTRUCT THE BOX CULVERT AT STATION 642+50 AS SHOWN.
 - CONSTRUCT THE OUTSIDE TWO LANES AS SHOWN TO STATION 112+50, FROM NORTH HEADER OF RAILROAD SHOOF-FLY, 45 FEET NORTH OF EXISTING TRACK.
 - CONSTRUCT THE REMAINING DALLAS PARKWAY AS SHOWN TO FULL SECTION.
 - DRAINAGE STRUCTURES WILL BE CONSTRUCTED ONLY UNDER THAT PORTION OF THE ROADWAY UNDER CONSTRUCTION WITH TEMPORARY CONNECTIONS TO EXISTING SYSTEMS FOR CONTINUOUS STORM WATER DRAINAGE.

- CONSTRUCTION**
- CONSTRUCT THE OUTSIDE TWO LANES OF SOUTHBOUND DALLAS PARKWAY AS SHOWN.
 - CONSTRUCT THE NORTHBOUND DALLAS PARKWAY AS SHOWN TO FULL SECTION.
 - THE DOUBLE 8'x8' BOX CULVERT MUST BE CONSTRUCTED UNDER THE EXISTING SOUTHBOUND PARKWAY AND THE PAVEMENT REPLACED FOR SOUTHBOUND TRAFFIC DETOUR. COMPLETE THE CULVERT, FILL THE EXISTING CHANNEL AND COMPLETE PHASE II GRADING AND PAVING.




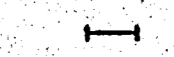




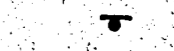
- CONSTRUCTION**
- THE WALLS AT THE RAILROAD UNDERPASS MUST BE CONSTRUCTED AND THE REMAINING INSIDE LANES OF DALLAS PARKWAY COMPLETED. CONCRETE TRAFFIC BARRIERS (PORTABLE) ARE TO BE PLACED ALONG THE EDGE OF DALLAS PARKWAY PAVEMENT DURING CONSTRUCTION OF RECESSED WALLS AND REMOVED UPON COMPLETION OF BACK FILL BEHIND WALLS.
 - CONSTRUCT DALLAS NORTH TOLLWAY.
 - ALL WALLS, GRADING, DRAINAGE AND STRUCTURES MUST BE COMPLETED PRIOR TO ANY TOLLWAY PAVING OPERATION BEGINNING.

PHASE II
TWO LANES OF SOUTHBOUND TRAFFIC TO USE EXISTING DALLAS PARKWAY AND DETOURS FROM ST. LOUIS SOUTHWESTERN RAILWAY TO STATION 662+00. THE SOUTHBOUND LANES WILL REQUIRE TWO STAGES, FOR CONSTRUCTION OF THE DOUBLE 8'x8' BOX CULVERT AT STATION 642+50, TO KEEP THE DRAINAGE THROUGH THE EXISTING CULVERT UNTIL DRAINAGE IS ESTABLISHED THROUGH THE NEW CULVERT.
TWO LANES OF NORTHBOUND TRAFFIC TO USE FUTURE NORTHBOUND DALLAS PARKWAY AND DETOUR FROM ST. LOUIS SOUTHWESTERN RAILWAY TO STATION 662+00.
AIRPORT PARKWAY SHALL BE CONNECTED TO SOUTHBOUND DALLAS PARKWAY DURING ALL OF PHASE II CONSTRUCTION.

PHASE III
TRAFFIC PLACED ON COMPLETED DALLAS PARKWAY ONE-WAY ON EACH ROAD REDUCED TO TWO LANES AT THE ST. LOUIS SOUTHWESTERN RAILWAY.
BARRICADES WILL BE MAINTAINED AT RAMPS UNTIL ALL SECTIONS OF THE DALLAS NORTH TOLLWAY ARE COMPLETED.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
SUGGESTED CONSTRUCTION SEQUENCE AND TRAFFIC CONTROL			
STA. 638+50 TO STA. 662+00			
Gibbs & Hill, Inc.			SECTION VII
<small>ENGINEERS DESIGNERS CONSTRUCTORS DALLAS</small>			
<small>DRAWN</small> VER	<small>DATE</small> 5/7/84	<small>DESIGNED</small> JOP	<small>DATE</small> 5/2/84
<small>CHECKED</small> DWG	<small>DATE</small> 8/3/84	<small>SCALE</small> 1"=100'	
CONTRACT NO. DNT-115 SHEET R34 OF R85			

LEGEND

-  Construction
-  Traffic Lanes
-  Detours
-  Barricades
-  Vertical Panel
-  Vertical Panel With Flashers
-  Barrel With Flasher
-  Barrel
-  Sign

PHASE I
 TRAFFIC REMAINS ON EXISTING DALLAS PARKWAY.
 KELLER SPRINGS WESTBOUND WILL BE CONSTRUCTED UNDER TRAFFIC. SEE SHEET R39.

CONSTRUCTION

1. CONSTRUCT SOUTHBOUND DALLAS PARKWAY AS SHOWN.
2. DRAINAGE STRUCTURES WILL BE CONSTRUCTED ONLY UNDER THAT PORTION OF ROADWAY UNDER CONSTRUCTION AND WILL BE COMPLETED IN OTHER PHASES.

PHASE II
 TRAFFIC PLACED ON NEW SOUTHBOUND DALLAS PARKWAY ONE LANE IN EACH DIRECTION.
 EXISTING DALLAS PARKWAY CLOSED TO TRAFFIC WITH KELLER SPRINGS EASTBOUND CONSTRUCTED UNDER TRAFFIC. THE DRIVES ON EAST SIDE SHALL BE CLOSED DURING PHASE II. SEE SHEET R39.

CONSTRUCTION

1. CONSTRUCT NORTHBOUND DALLAS PARKWAY AS SHOWN.
2. SPECIAL COORDINATION WITH UTILITY COMPANY FOR THE RELOCATION OF TRANSMISSION LINE FROM KELLER SPRINGS NORTH WILL BE REQUIRED. PROPOSED TOWERS WILL BE CONSTRUCTED INSIDE THE NORTHBOUND DALLAS PARKWAY PAVING.

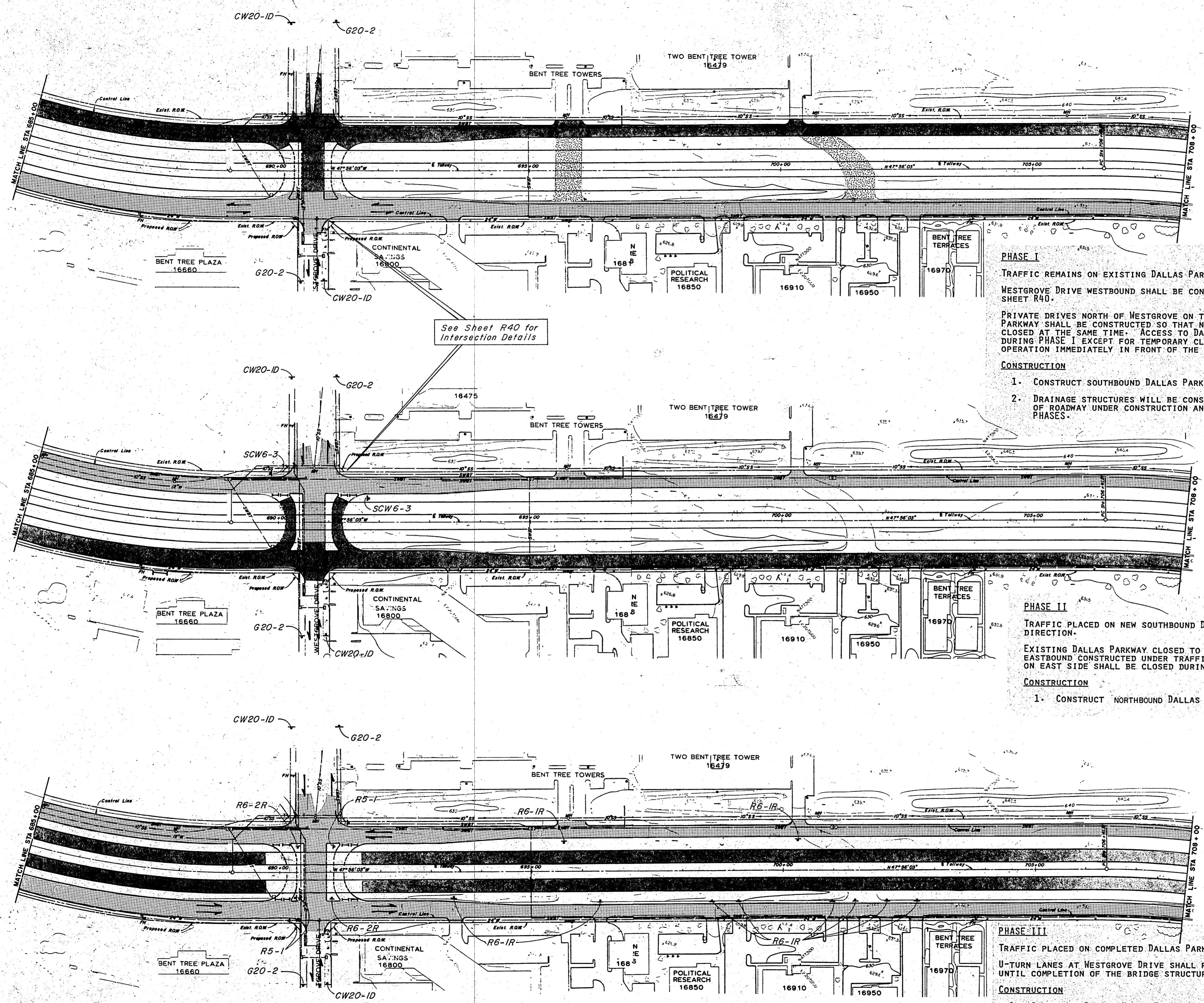
PHASE III
 TRAFFIC PLACED ON COMPLETED DALLAS PARKWAY ONE-WAY ON EACH ROAD.
 U-TURN LANES AT KELLER SPRINGS SHALL REMAIN BARRICADED TO TRAFFIC UNTIL COMPLETION OF THE BRIDGE STRUCTURE IN PHASE III.
 BARRICADES WILL BE MAINTAINED AT RAMPS PERMANENTLY AND SHALL BE LEFT IN-PLACE AFTER COMPLETION OF PHASE III.

CONSTRUCTION

1. CONSTRUCT DALLAS NORTH TOLLWAY.
2. ALL WALLS, GRADING, DRAINAGE AND STRUCTURES MUST BE COMPLETED PRIOR TO ANY TOLLWAY PAVING OPERATION BEGINNING.

See Sheet R39 for Intersection Details

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
SUGGESTED CONSTRUCTION SEQUENCE AND TRAFFIC CONTROL STA. 662+00 TO STA. 685+00			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN	VER	DATE	DESIGNED
CHECKED	DWC	DATE	JOP
		SCALE	DATE
		1"=100'	5/3/84
CONTRACT NO. DNT-115 SHEET R35 OF R85			



LEGEND

	Construction
	Traffic Lanes
	Detours
	Barricades
	Vertical Panel
	Vertical Panel With Flashers
	Barrel With Flasher
	Barrel
	Sign

PHASE I
 TRAFFIC REMAINS ON EXISTING DALLAS PARKWAY.
 WESTGROVE DRIVE WESTBOUND SHALL BE CONSTRUCTED UNDER TRAFFIC. SEE SHEET R40.

PRIVATE DRIVES NORTH OF WESTGROVE ON THE WEST SIDE OF DALLAS PARKWAY SHALL BE CONSTRUCTED SO THAT NO TWO ADJACENT DRIVES ARE CLOSED AT THE SAME TIME. ACCESS TO DALLAS PARKWAY WILL BE MAINTAINED DURING PHASE I EXCEPT FOR TEMPORARY CLOSINGS DURING CONSTRUCTION OPERATION IMMEDIATELY IN FRONT OF THE DRIVES.

- CONSTRUCTION**
1. CONSTRUCT SOUTHBOUND DALLAS PARKWAY.
 2. DRAINAGE STRUCTURES WILL BE CONSTRUCTED ONLY UNDER THAT PORTION OF ROADWAY UNDER CONSTRUCTION AND WILL BE COMPLETED IN OTHER PHASES.

PHASE II
 TRAFFIC PLACED ON NEW SOUTHBOUND DALLAS PARKWAY ONE-LANE IN EACH DIRECTION.




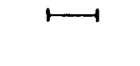

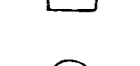



EXISTING DALLAS PARKWAY CLOSED TO TRAFFIC WITH WESTGROVE DRIVE EASTBOUND CONSTRUCTED UNDER TRAFFIC. (SEE SHEET R40.) ALL DRIVES ON EAST SIDE SHALL BE CLOSED DURING PHASE II.

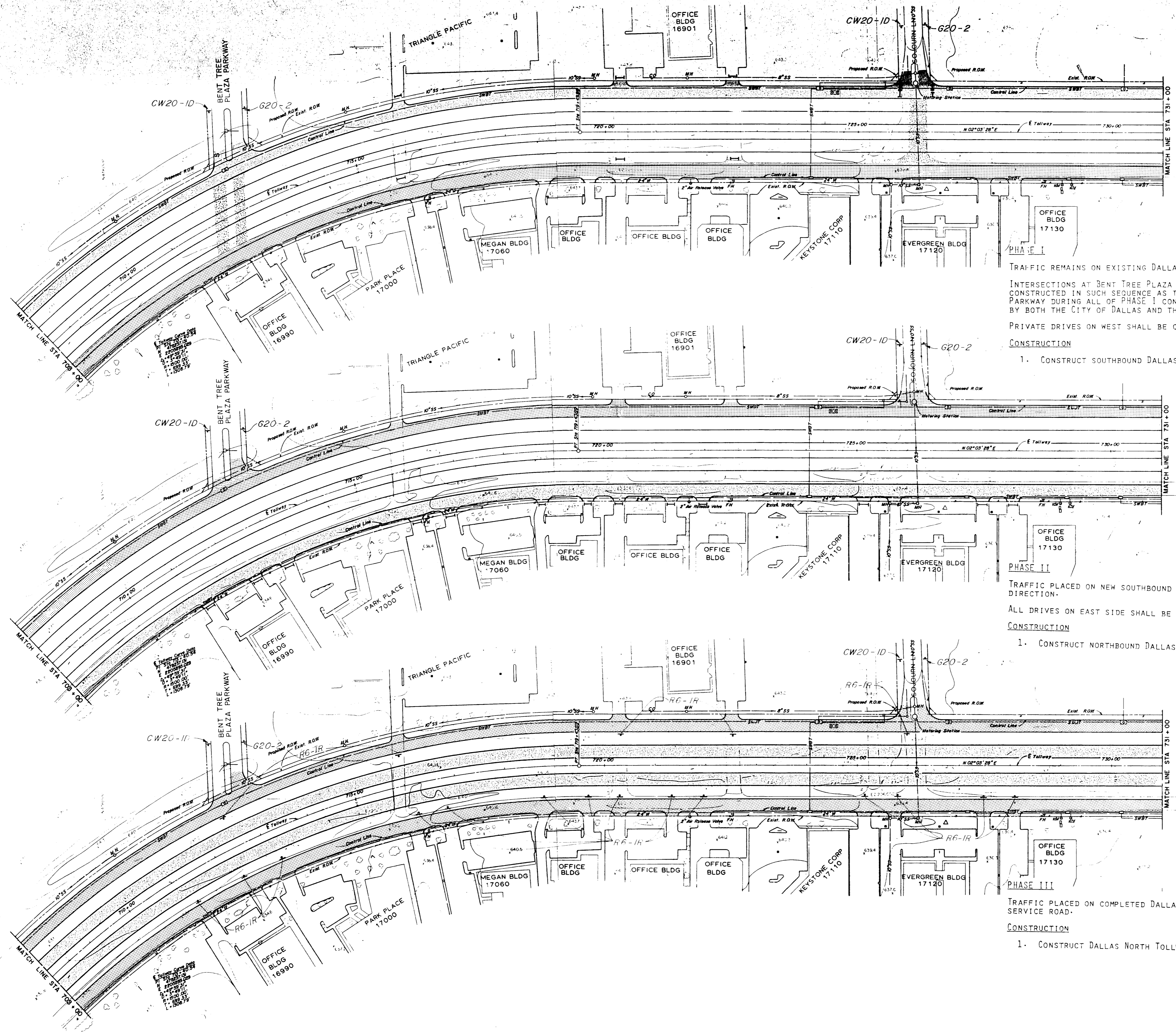
- CONSTRUCTION**
1. CONSTRUCT NORTHBOUND DALLAS PARKWAY.

PHASE III
 TRAFFIC PLACED ON COMPLETED DALLAS PARKWAY ONE-WAY ON EACH ROAD. U-TURN LANES AT WESTGROVE DRIVE SHALL REMAIN BARRICADED TO TRAFFIC UNTIL COMPLETION OF THE BRIDGE STRUCTURE IN PHASE III.

- CONSTRUCTION**
1. CONSTRUCT DALLAS NORTH TOLLWAY.
 2. ALL WALLS, GRADING, DRAINAGE AND STRUCTURES MUST BE COMPLETED PRIOR TO ANY TOLLWAY PAVING OPERATION BEGINNING.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
SUGGESTED CONSTRUCTION SEQUENCE AND TRAFFIC CONTROL STA. 685+00 TO STA. 708+00			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN	VER	DATE	DESIGNED
CHECKED	DWC	DATE	SCALE
CONTRACT NO. DNT-115		SHEET R36 OF R85	

- LEGEND**
-  Construction
 -  Traffic Lanes
 -  Detours
 -  Barricades
 -  Vertical Panel
 -  Vertical Panel With Flashers
 -  Barrel With Flasher
 -  Barrel
 -  Sign



TRAFFIC REMAINS ON EXISTING DALLAS PARKWAY.
 INTERSECTIONS AT BENT TREE PLAZA PARKWAY AND SOJOURN LANE SHALL BE CONSTRUCTED IN SUCH SEQUENCE AS TO MAINTAIN TWO LANE ACCESS TO DALLAS PARKWAY DURING ALL OF PHASE I CONSTRUCTION, UNLESS CLOSING IS APPROVED BY BOTH THE CITY OF DALLAS AND THE CITY OF ADDISON.

PRIVATE DRIVES ON WEST SHALL BE CLOSED TO DALLAS PARKWAY.

CONSTRUCTION
 1. CONSTRUCT SOUTHBOUND DALLAS PARKWAY.

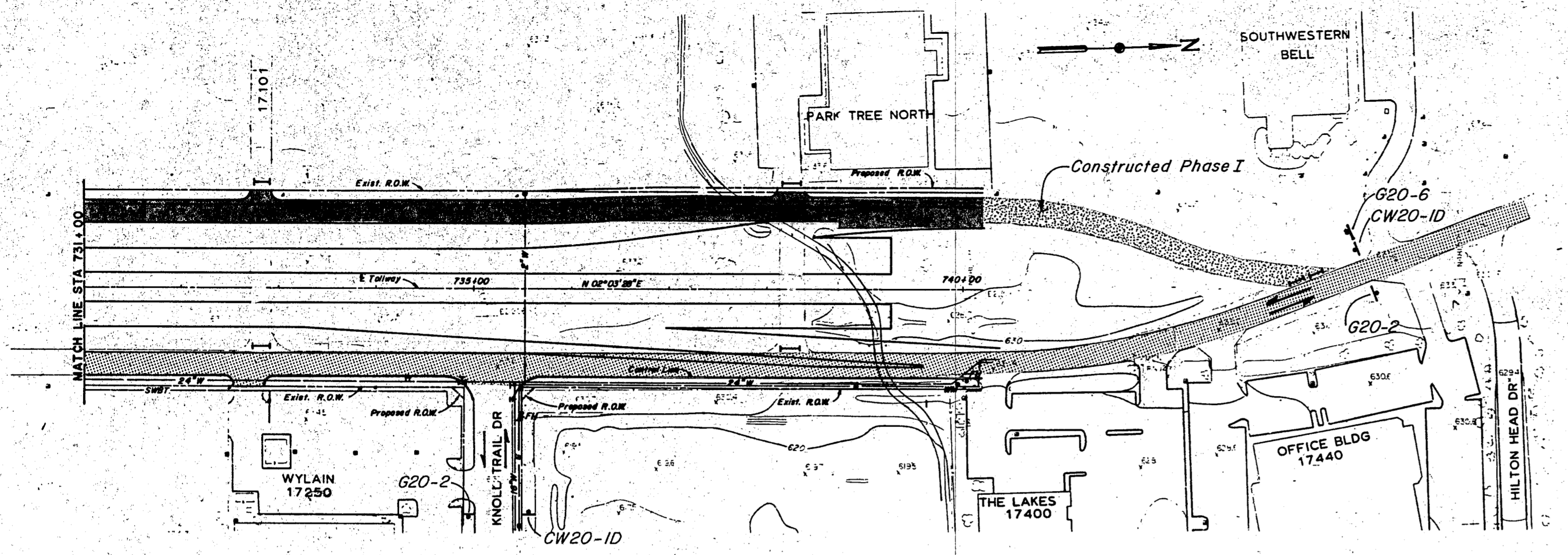
TRAFFIC PLACED ON NEW SOUTHBOUND DALLAS PARKWAY ONE LANE EACH DIRECTION.
 ALL DRIVES ON EAST SIDE SHALL BE CLOSED DURING PHASE II.

CONSTRUCTION
 1. CONSTRUCT NORTHBOUND DALLAS PARKWAY.

TRAFFIC PLACED ON COMPLETED DALLAS PARKWAY 2 LANES ONE-WAY ON EACH SERVICE ROAD.

CONSTRUCTION
 1. CONSTRUCT DALLAS NORTH TOLLWAY.

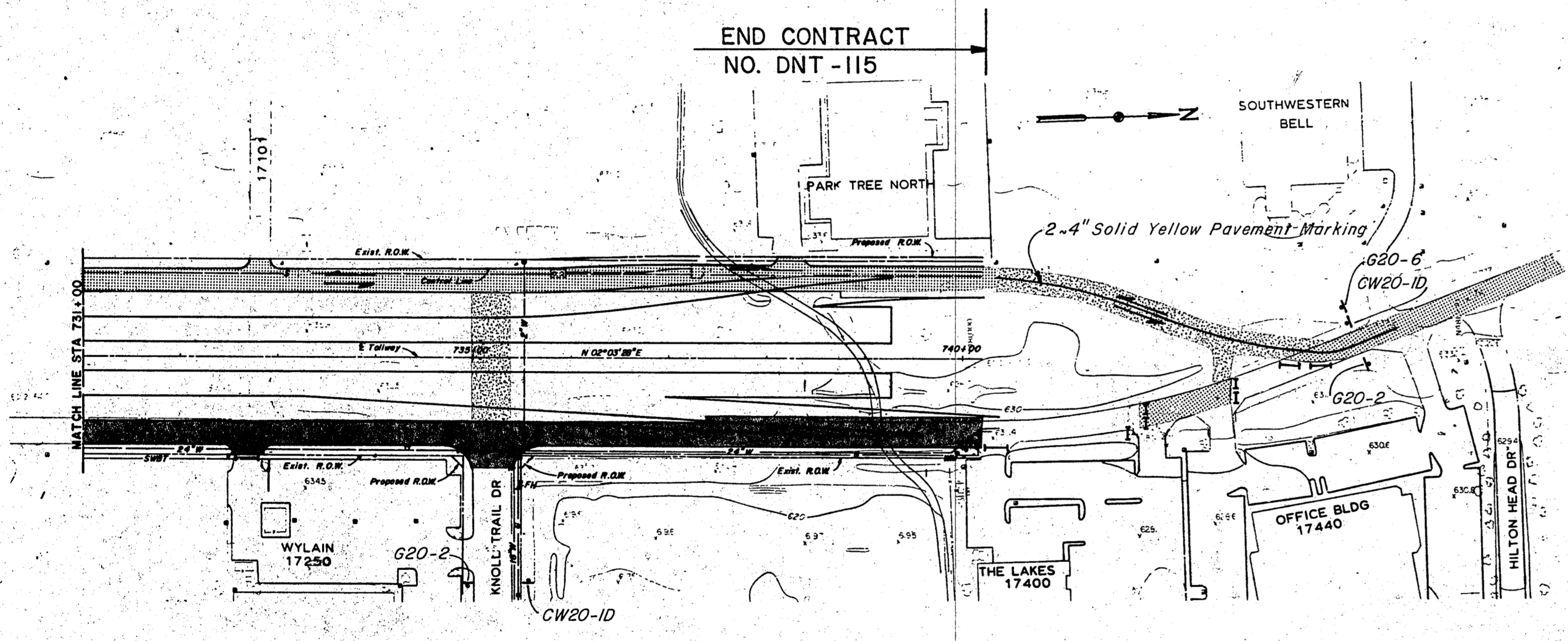
NO	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
SUGGESTED CONSTRUCTION SEQUENCE AND TRAFFIC CONTROL STA. 708+00 TO STA. 731+00			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN VER	DATE 5/14/84	DESIGNED JOP	DATE 5/14/84
CHECKED LWC	DATE 9/3/84	SCALE 1"=100'	
CONTRACT NO. DNT-115 SHEET R 37 OF R 85			



PHASE I
 TRAFFIC REMAINS ON EXISTING DALLAS PARKWAY.
 PRIVATE DRIVES ON WEST SHALL BE CLOSED TO DALLAS PARKWAY.

CONSTRUCTION

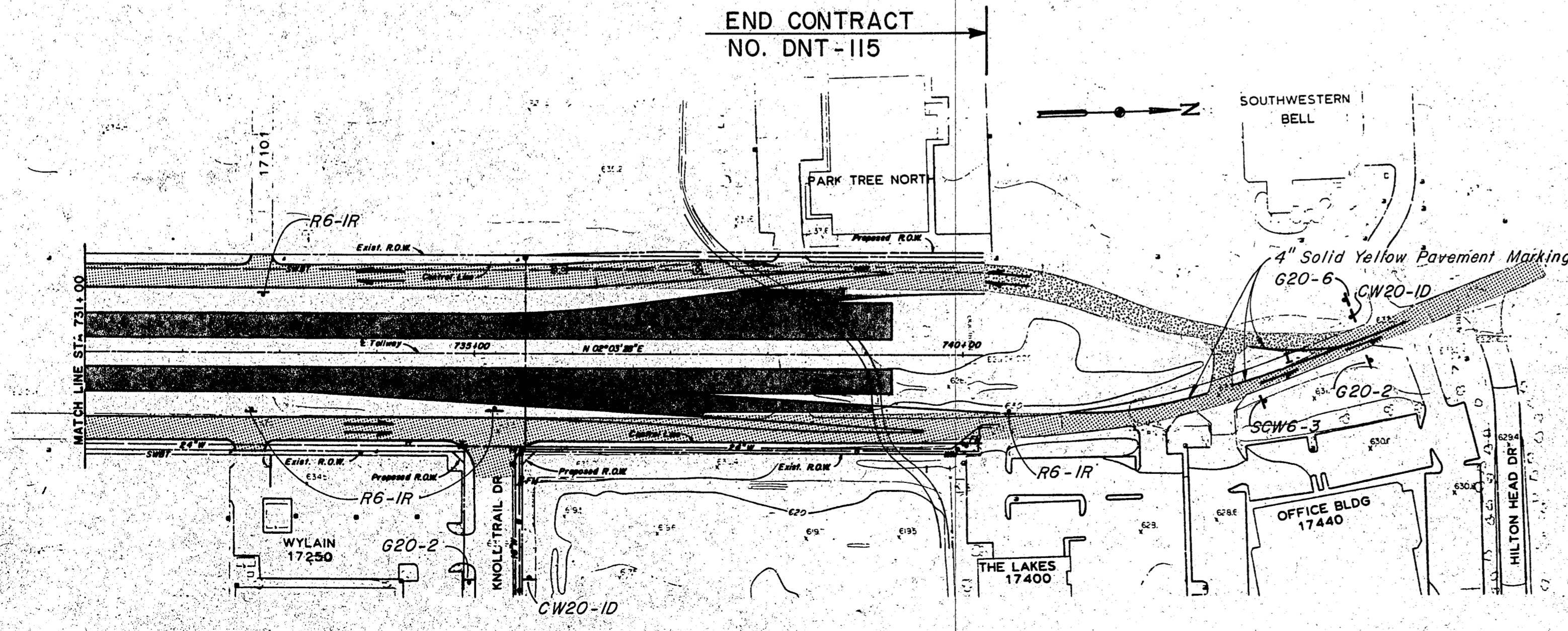
1. CONSTRUCT DRAINAGE CULVERTS WITH LATERALS AS COMPLETE AS POSSIBLE WITHOUT DISRUPTION TO TRAFFIC.
2. CONSTRUCT SOUTHBOUND DALLAS PARKWAY.
3. CONSTRUCT DETOUR REQUIRED FOR PHASE II.



PHASE II
 PLACE TRAFFIC ON NEW SOUTHBOUND DALLAS PARKWAY AND DETOUR WITH ONE LANE IN EACH DIRECTION.
 KNOLL TRAIL INTERSECTION SHALL BE CONNECTED BY TEMPORARY DETOUR TO THE SOUTHBOUND DALLAS PARKWAY AND CONSTRUCTED IN SUCH SEQUENCE THAT TWO LANES OF TRAFFIC ARE MAINTAINED DURING CONSTRUCTION OF PHASE II.

CONSTRUCTION

1. CONSTRUCT NORTHBOUND DALLAS PARKWAY.



PHASE III
 TRAFFIC PLACED ON COMPLETED DALLAS PARKWAY AND DETOUR ONE-WAY ON EACH ROAD.
 BARRICADE RAMPS UNTIL COMPLETION OF ALL SECTIONS OF THE DALLAS NORTH TOLLWAY.

CONSTRUCTION

1. CONSTRUCT DALLAS NORTH TOLLWAY.

LEGEND

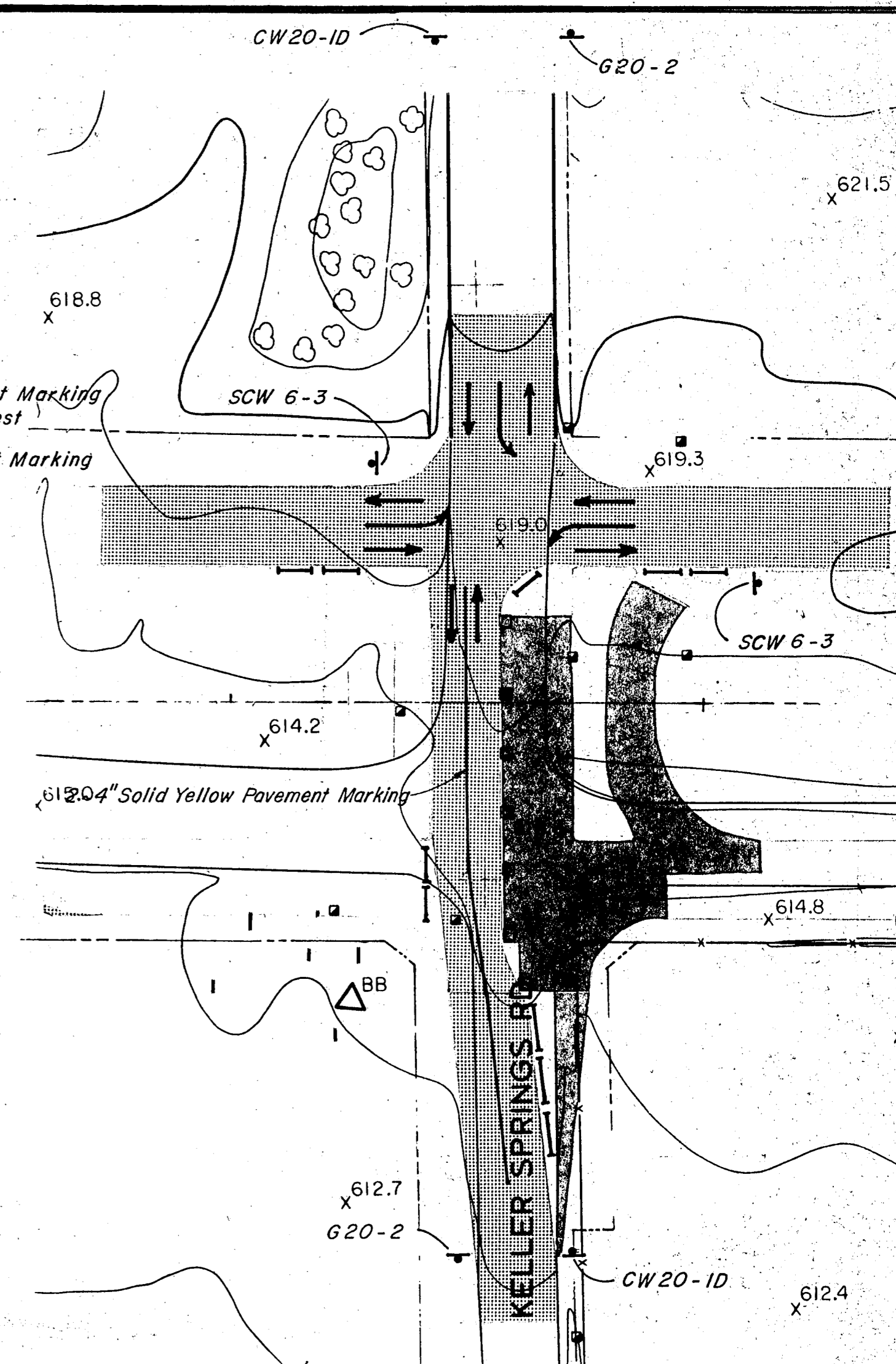
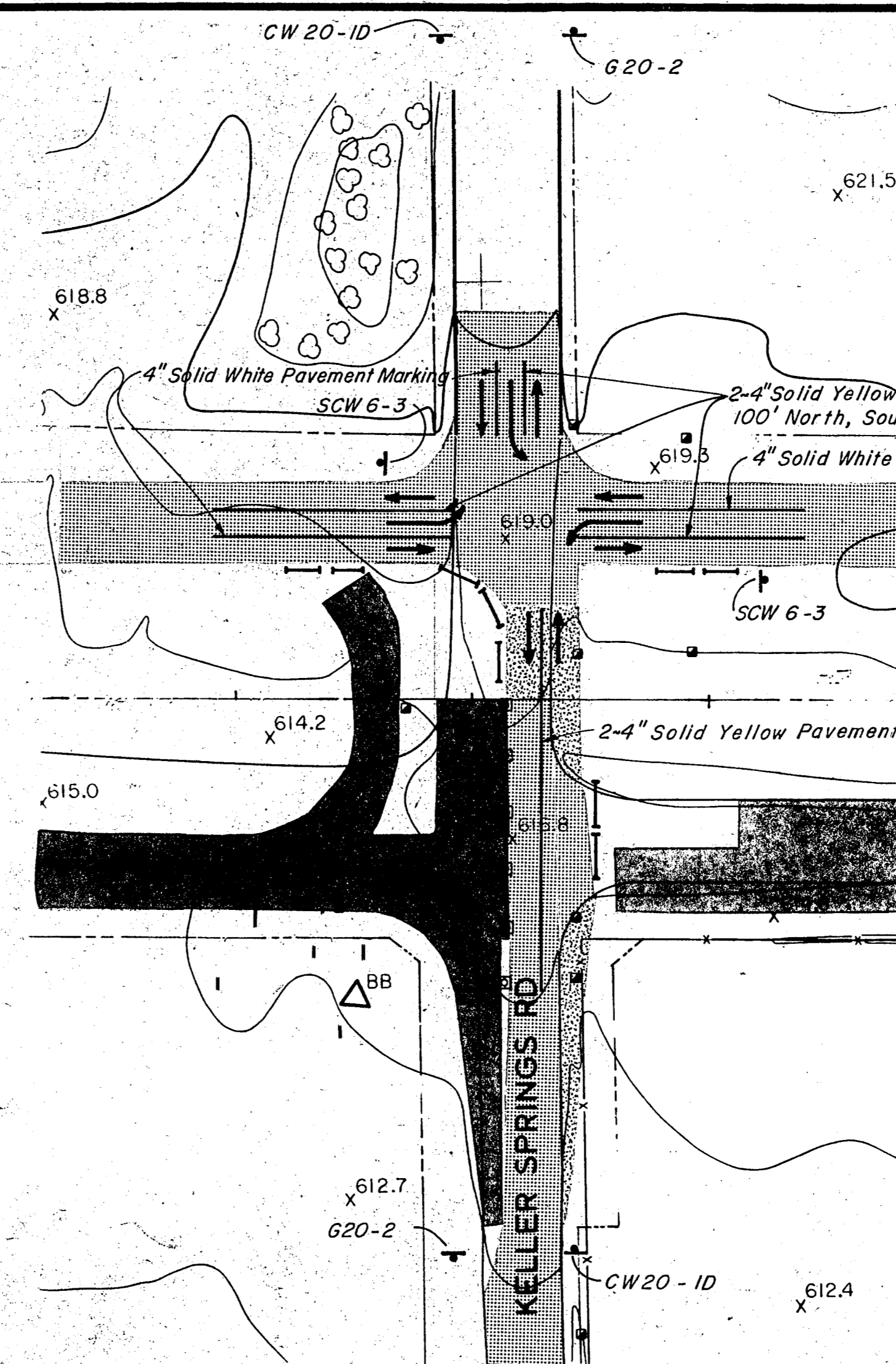
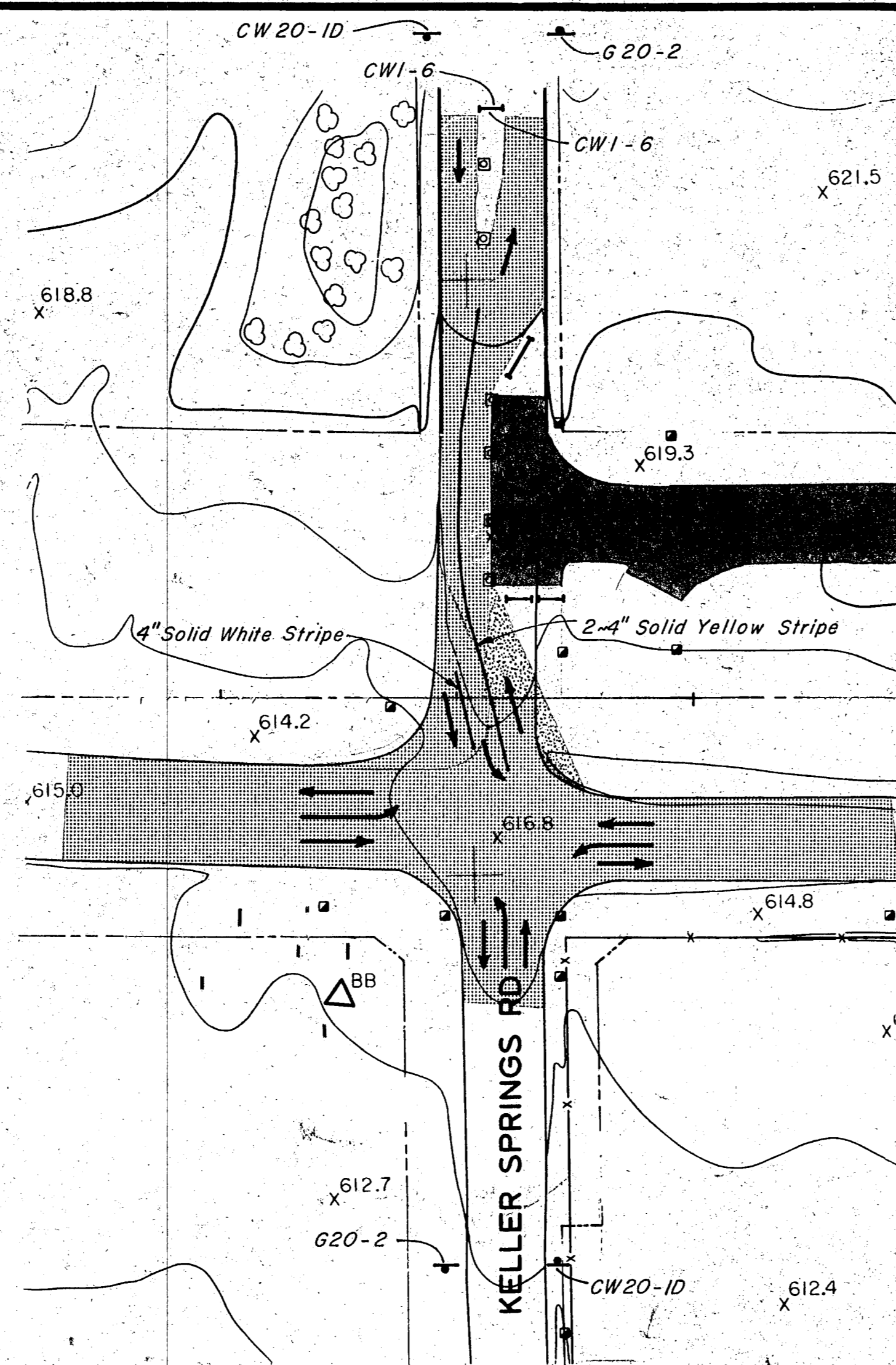
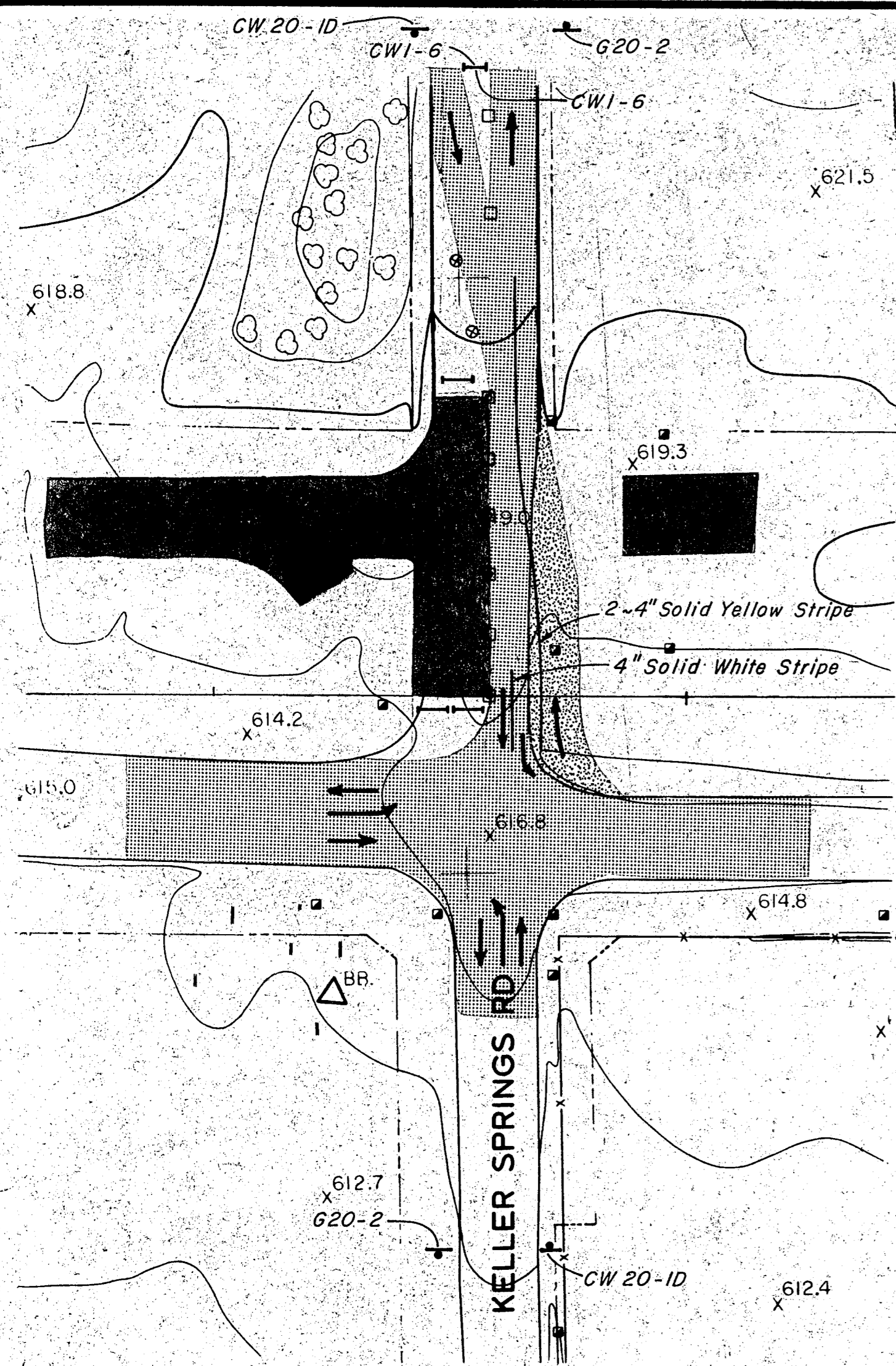
- Construction
- Traffic Lanes
- Detours
- Barricades
- Vertical Panel
- Vertical Panel With Flashers
- Barrel With Flasher
- Barrel
- Sign

SUMMARY
 CONSTRUCTION WARNING SIGNS

SIGNS	SIZE	SHEET NO.				
		R-34	R-35	R-36	R-37	R-38
PHASE I						
G 20-2 (PHASE II & III)	60 x 24	2	2	2	2	2
G 20-6 (PHASE II & III)	48 x 42	1	1	1	1	1
CW 20-10 (PHASE II & III)	48 x 48	2	2	2	2	2
CW 1-6	30 x 30	2	2	2	2	2
BARRICADE (TYPE I)		2	4	4	4	4
BARRICADE (TYPE II)		4	7	7	7	7
BARRICADE (TYPE III)		11	7	12	12	6
PHASE II						
CW 1-6	48 x 24	1	2			
SW 6-1	48 x 48	1				
SCW 6-3	30 x 30	1	2	2		
WH-9L	48 x 48			1		
WH-10L	48 x 48	1				
BARRICADE (TYPE I)			9	15	2	
BARRICADE (TYPE II)		2	3	2	4	
BARRICADE (TYPE III)		3	6	13	12	
PHASE III						
R 5-1*	30 x 30	2	4	4		
R 6-1R*	36 x 12	3	2	10	19	4
R 6-2R*	18 x 24		2	2		
SCW 6-3	30 x 30					1
CW 4-2R	36 x 36	2				
CW 9-2R	36 x 3	2	8	8		2
BARRICADE (TYPE III)		2				

* SIGNS TO BE FURNISHED BY OWNER. THE CONTRACTOR SHALL FURNISH AND INSTALL SIGN POSTS AND INSTALL SIGNS.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
SUGGESTED CONSTRUCTION SEQUENCE AND TRAFFIC CONTROL STA. 731+00 TO STA. 740+37			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN	VER	DATE	JOP DATE
DWC	5/16/84	5/7/84	5/7/84
CHECKED	DATE	SCALE	SCALE
DWC	5/7/84	1"=100'	1"=100'
CONTRACT NO. DNT-115 SHEET R 38 OF R 85			



**PHASE I
STAGE 1**

TRAFFIC

1. MAINTAIN TRAFFIC LANES AS EXIST ON DALLAS PARKWAY AND KELLER SPRINGS EAST OF EXISTING DALLAS PARKWAY.
2. CLOSE SOUTH 1/2 OF KELLER SPRINGS WEST OF THE TOLLWAY CENTERLINE AND CONSTRUCT DETOUR ALL ALONG NORTH SIDE TO ALLOW LEFT TURN LANE.
3. ROUTE TRAFFIC AS SHOWN ABOVE.

CONSTRUCTION

1. CONSTRUCT SOUTHBOUND DALLAS PARKWAY FROM SOUTH.
2. DRAINAGE MUST BE COMPLETED FROM DOWN STREAM AND EXTENDED SUFFICIENT DISTANCE TO FACILITATE CONNECTING IN STAGE 2 AND OTHER PHASES.

**PHASE I
STAGE 2**

TRAFFIC

1. CLOSE PORTION OF THE NORTH 1/2 OF KELLER SPRINGS ACROSS PROPOSED SOUTHBOUND DALLAS PARKWAY AND CONSTRUCT DETOUR OVER EXISTING PAVEMENT WITH A LEFT TURN LANE.

CONSTRUCTION

1. CONSTRUCT SOUTHBOUND DALLAS PARKWAY TO NORTH.

**PHASE II
STAGE 1**

TRAFFIC

1. ALL DALLAS PARKWAY TRAFFIC MUST BE PLACED ON THE SOUTHBOUND DALLAS PARKWAY.
2. CONSTRUCT DETOUR ALL ALONG NORTH SIDE TO PROVIDE FOR LEFT TURN LANE.
3. CLOSE SOUTH 1/2 OF KELLER SPRINGS EAST OF THE TOLLWAY CENTERLINE.
4. THE NORTHBOUND DALLAS PARKWAY WILL REMAIN BARRICADED UNTIL THE COMPLETION OF ALL PHASE II PAVEMENT IN DALLAS NORTH TOLLWAY SECTION VII AND U-TURN.

CONSTRUCTION

1. CONSTRUCT NORTHBOUND DALLAS PARKWAY FROM SOUTH.

**PHASE II
STAGE 2**

TRAFFIC

1. CLOSE NORTH 1/2 OF KELLER SPRINGS, AS SHOWN ABOVE.

CONSTRUCTION

1. CONSTRUCT NORTHBOUND DALLAS PARKWAY AND U-TURN TO THE NORTH.

LEGEND

- Construction
- Traffic Lanes
- Detours
- Barricades
- Vertical Panel
- Vertical Panel With Flashers
- Barrel With Flasher
- Barrel
- Sign

PHASE III

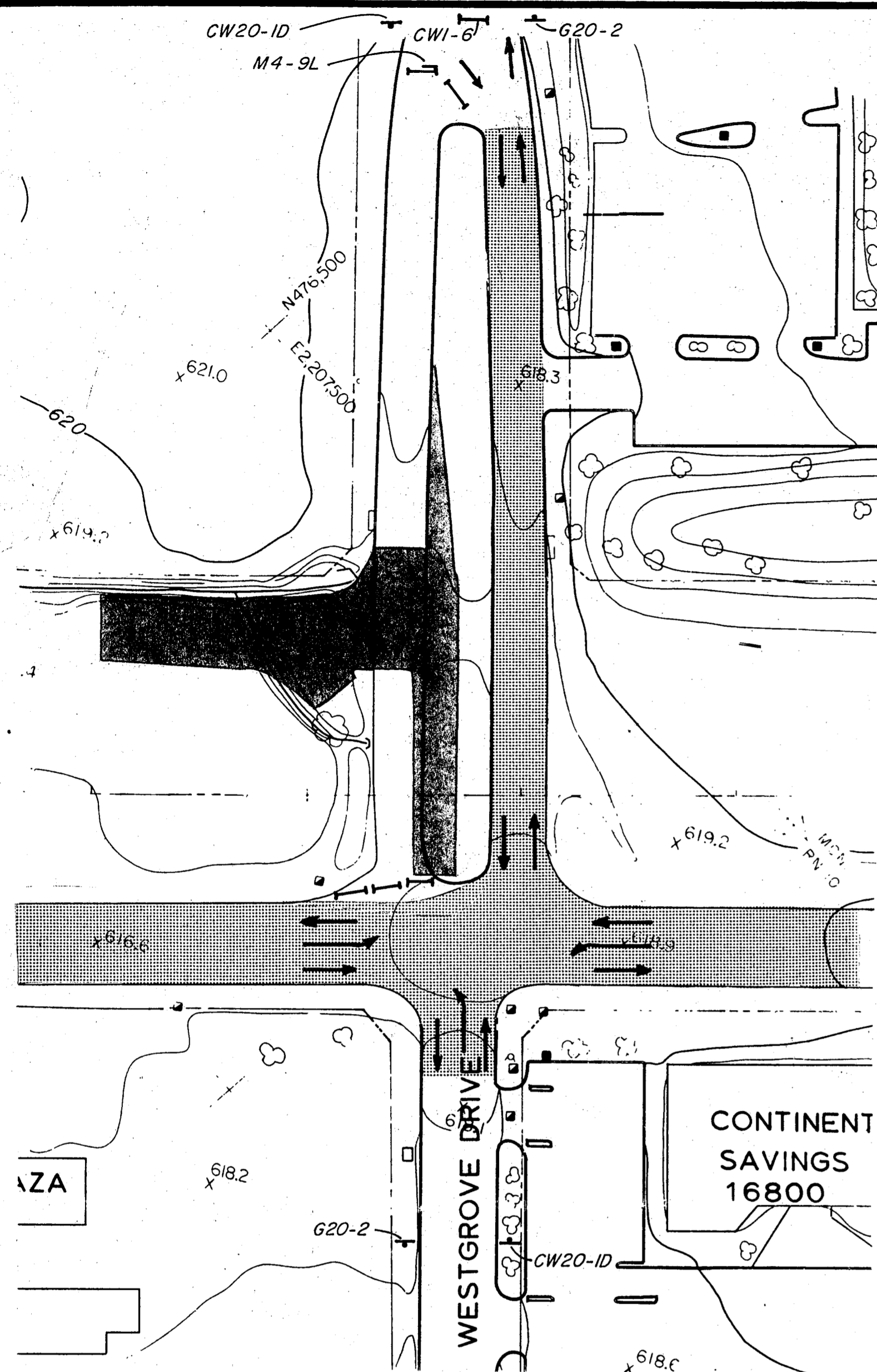
TRAFFIC

1. ALL TRAFFIC PLACED ON COMPLETED DALLAS PARKWAY.
2. U-TURNS REMAIN BARRICADED TO TRAFFIC UNTIL COMPLETION OF THE TOLLWAY BRIDGE OVERPASS.
3. TRAFFIC MAY BE REDUCED TEMPORARILY TO TWO LANES FOR BRIDGE ERECTION BY USE OF BARRICADES AND FLAGMEN.

CONSTRUCTION

1. COMPLETE WALLS AND BRIDGE AND OPEN U-TURNS TO TRAFFIC.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
CONSTRUCTION SEQUENCE AND TRAFFIC CONTROL			
KELLER SPRINGS ROAD INTERSECTION			
Gibbs & Hill, Inc.			SECTION VII
<small>ENGINEERS DESIGNERS CONSTRUCTORS</small>			
<small>DRAWN</small> VER	<small>DATE</small> 5/18/84	<small>DESIGNED</small> JOP	<small>DATE</small> 5-24-84
<small>CHECKED</small> DWG	<small>DATE</small> 8/3/84	<small>SCALE</small> 1"=50'	
CONTRACT NO. DNT-115 SHEET R39 OF R85			



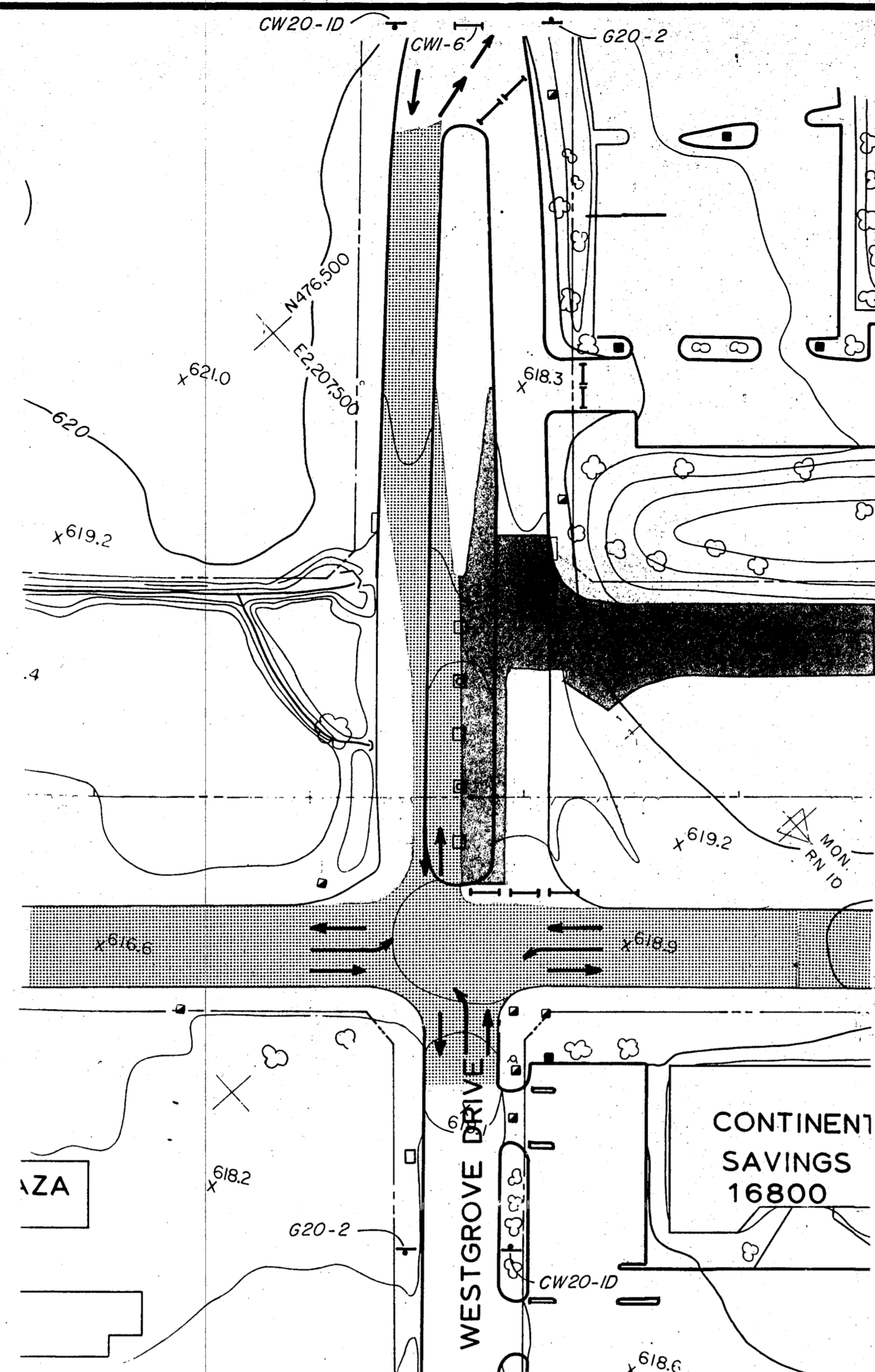
PHASE I
STAGE 1

TRAFFIC

1. MAINTAIN TRAFFIC LANES AS EXIST ON DALLAS PARKWAY AND ROUTE TRAFFIC AS SHOWN ABOVE.
2. CLOSE SOUTH 1/2 OF WESTBOUND WESTGROVE DRIVE.

CONSTRUCTION

1. CONSTRUCT SOUTHBOUND DALLAS PARKWAY FROM SOUTH AND WESTGROVE DRIVE AS SHOWN ABOVE.
2. DRAINAGE MUST BE COMPLETED FROM DOWN STREAM AND EXTENDED SUFFICIENT DISTANCE TO FACILITATE CONNECTING IN STAGE 2 AND OTHER PHASES.



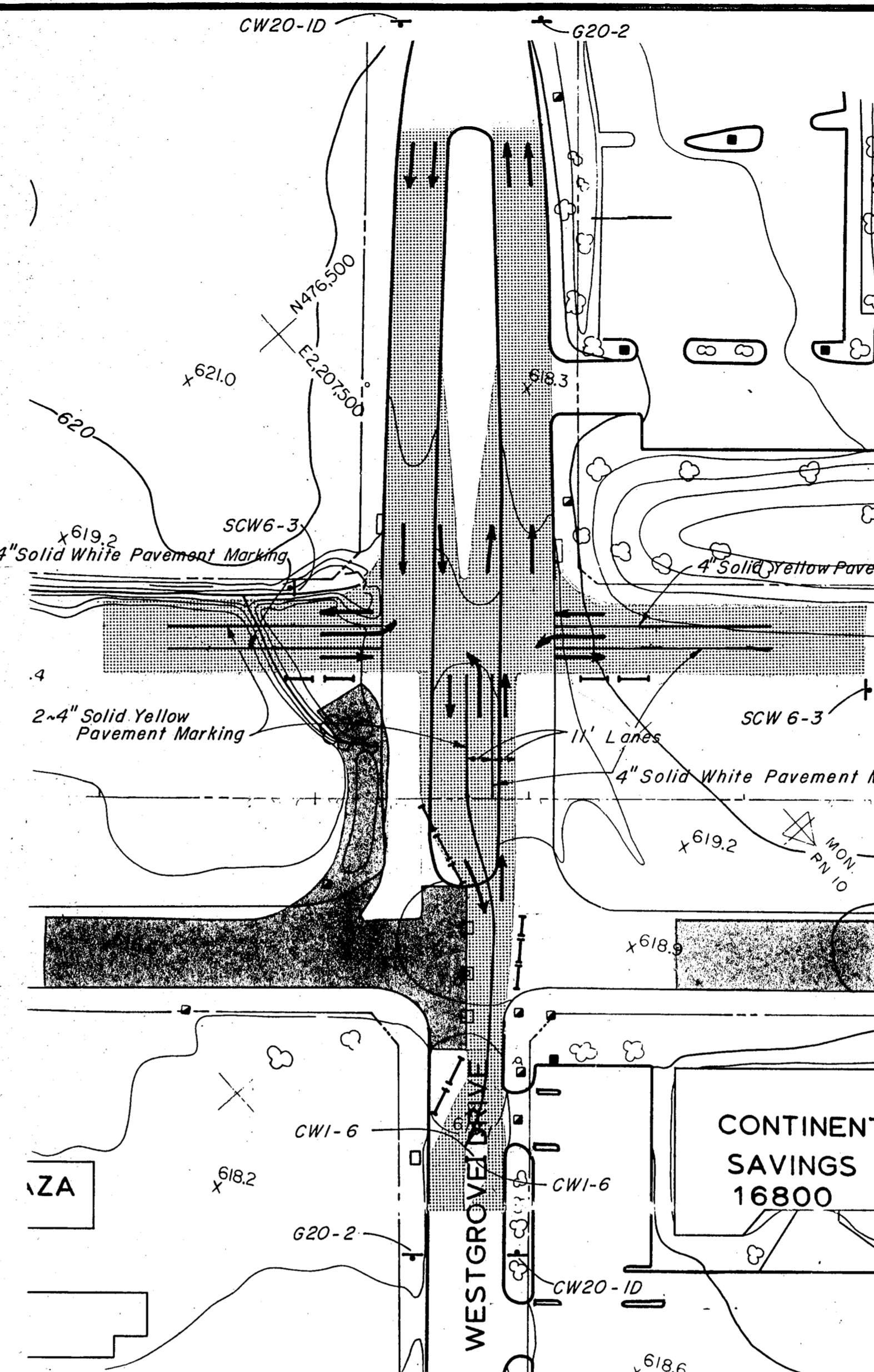
PHASE I
STAGE 2

TRAFFIC

1. CLOSE NORTH 1/2 OF WESTGROVE DRIVE AND ROUTE ALL TRAFFIC ON SOUTH SIDE AS SHOWN ABOVE.

CONSTRUCTION

1. CONSTRUCT SOUTHBOUND DALLAS PARKWAY TO NORTH AND WESTGROVE DRIVE AS SHOWN ABOVE.



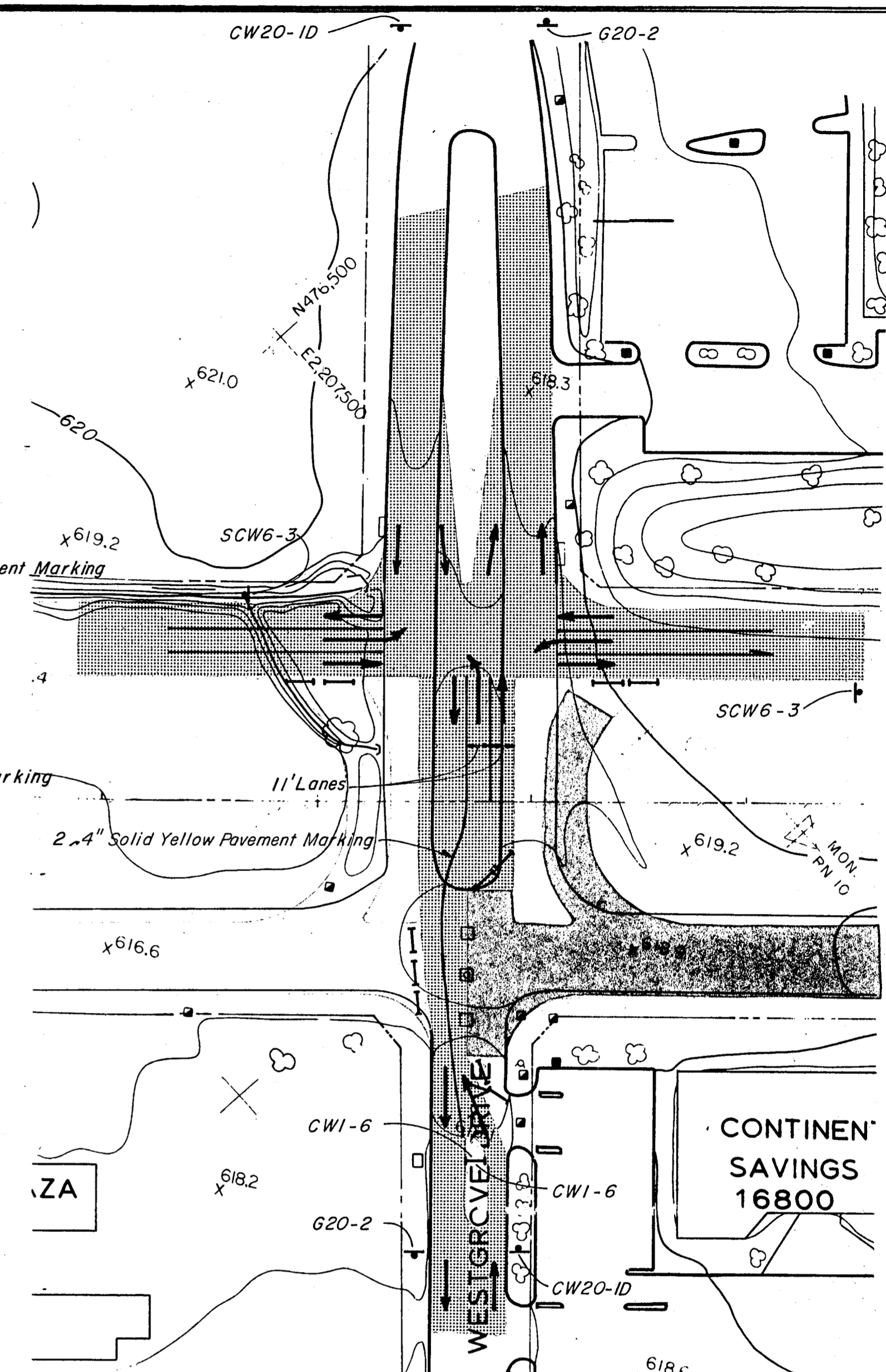
PHASE II
STAGE 1

TRAFFIC

1. ALL DALLAS PARKWAY TRAFFIC MUST BE PLACED ON THE SOUTHBOUND DALLAS PARKWAY.
2. CLOSE SOUTH 1/2 OF WESTGROVE DRIVE AND ROUTE TRAFFIC AS SHOWN ABOVE.
3. THE NORTHBOUND DALLAS PARKWAY WILL REMAIN BARRICADED UNTIL THE COMPLETION OF ALL PHASE II PAVEMENT IN DALLAS NORTH TOLLWAY SECTION VII.

CONSTRUCTION

1. CONSTRUCT NORTHBOUND DALLAS PARKWAY FROM THE SOUTH.



PHASE II
STAGE 2

TRAFFIC

1. CLOSE NORTH 1/2 OF WESTGROVE DRIVE AND ROUTE TRAFFIC AS SHOWN ABOVE.

CONSTRUCTION

1. CONSTRUCT NORTHBOUND DALLAS PARKWAY AND U-TURN TO THE NORTH.

LEGEND

- Construction
- Traffic Lanes
- Detours
- Barricades
- Vertical Panel
- Vertical Panel With Flashers
- Barrel With Flasher
- Barrel
- Sign

PHASE III

TRAFFIC

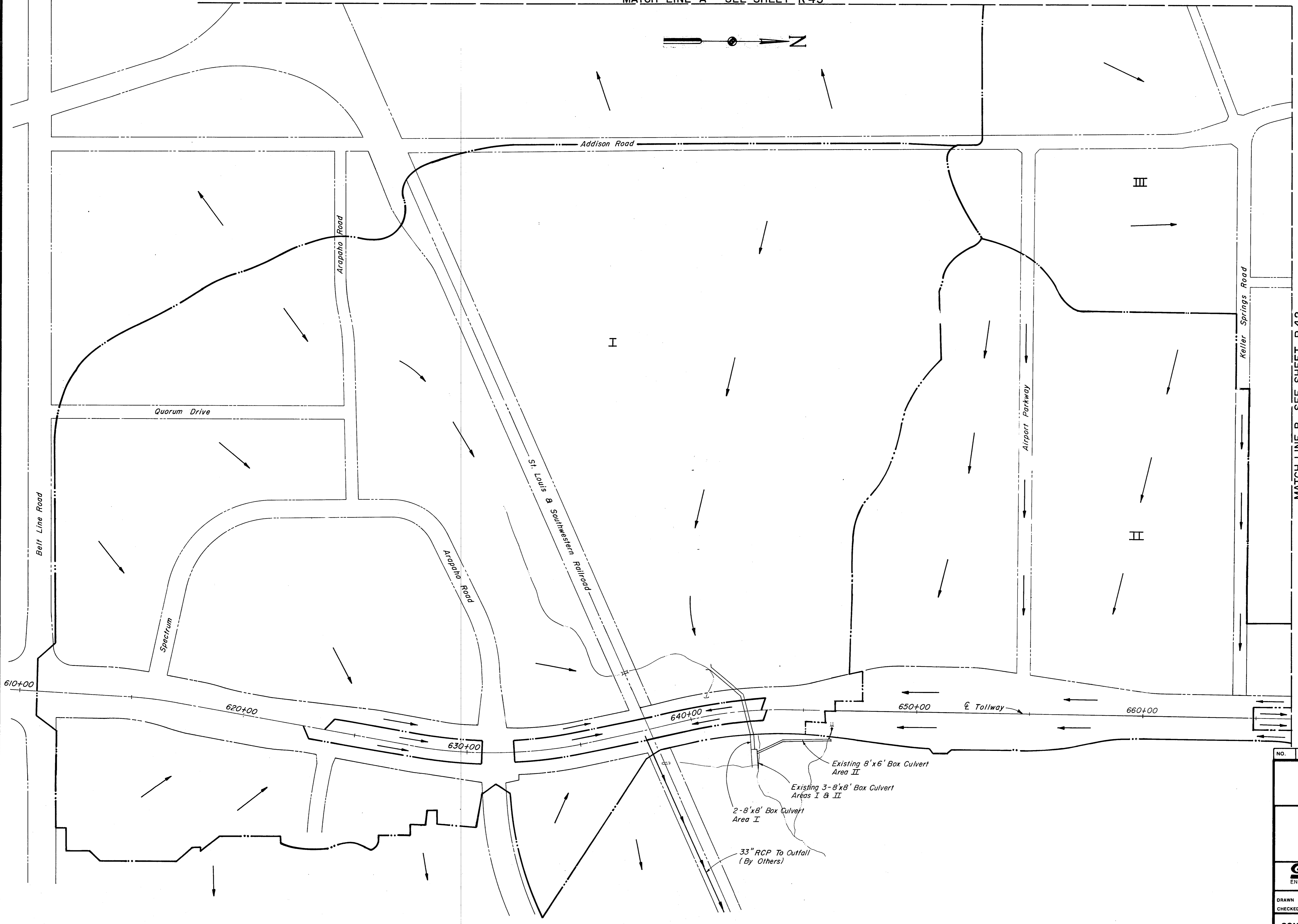
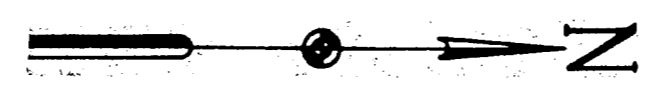
1. ALL TRAFFIC PLACED ON COMPLETED DALLAS PARKWAY.
2. U-TURNS REMAIN BARRICADED TO TRAFFIC UNTIL COMPLETION OF THE TOLLWAY BRIDGE OVERPASS.
3. TRAFFIC MAY BE REDUCED TEMPORARILY TO TWO LANES AS NECESSARY FOR BRIDGE ERECTION BY USE OF BARRICADES AND FLAGMEN.

CONSTRUCTION

1. COMPLETE WALLS AND BRIDGE AND OPEN U-TURNS TO TRAFFIC.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
CONSTRUCTION SEQUENCE AND TRAFFIC CONTROL			
WESTGROVE DRIVE INTERSECTION			
Gibbs & Hill, Inc.			SECTION VII
<small>ENGINEERS DESIGNERS CONSTRUCTORS DALLAS</small>			
<small>DRAWN</small> VER	<small>DATE</small> 5/18/84	<small>DESIGNED</small> JDP	<small>DATE</small> 5-25-84
<small>CHECKED</small> DWG	<small>DATE</small> 8/3/84	<small>SCALE</small> 1"=50'	
CONTRACT NO. DNT-115 SHEET R40 OF R85			

MATCH LINE A SEE SHEET R 43



MATCH LINE B SEE SHEET R 42

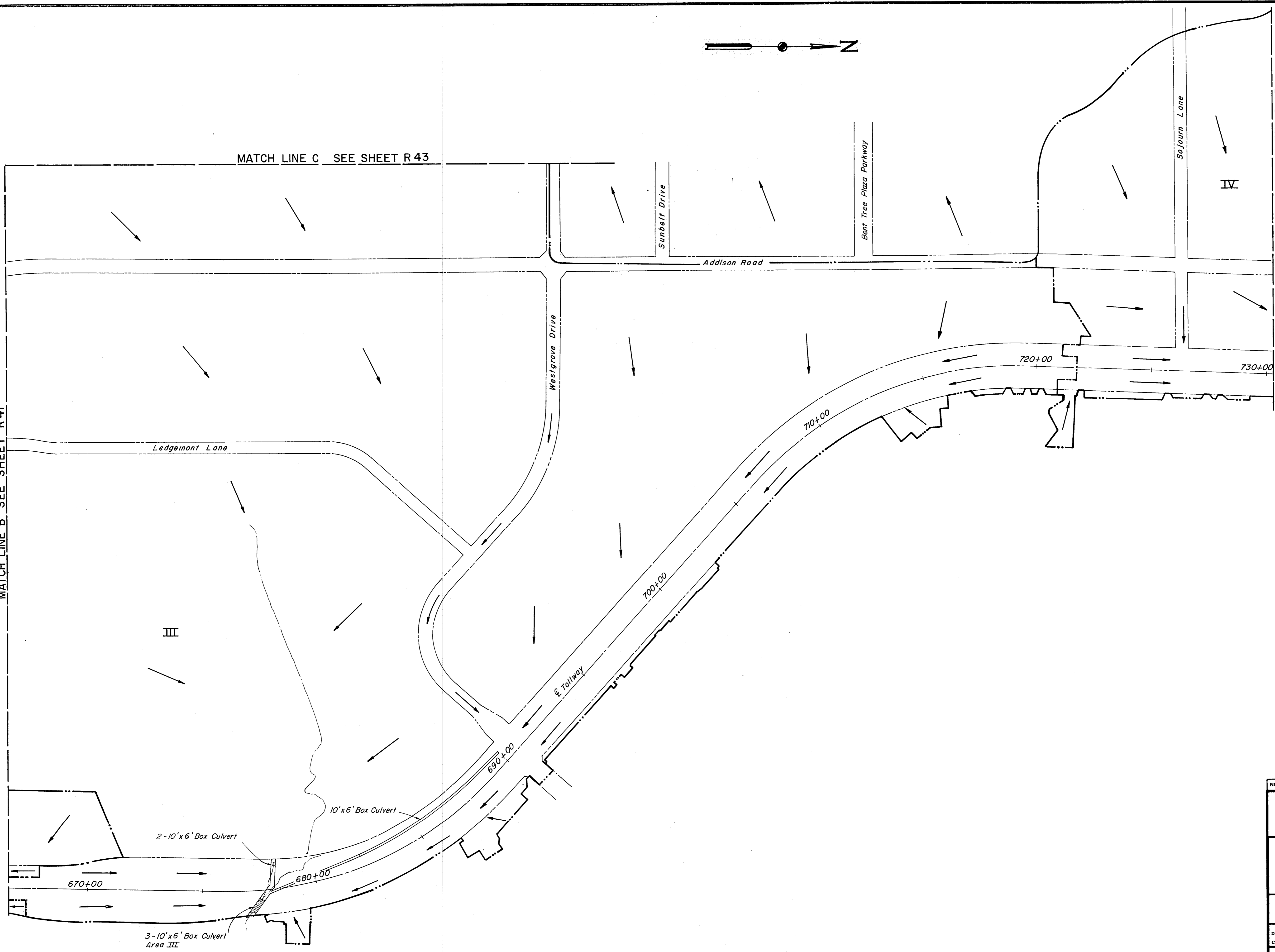
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
DRAINAGE AREA MAP			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN <i>CJB</i>	DATE <i>4/18/83</i>	DESIGNED <i>KJ</i>	DATE <i>4/15/83</i>
CHECKED <i>DWC</i>	DATE <i>5/8/84</i>	SCALE <i>1" = 200'</i>	
CONTRACT NO. DNT-115 SHEET R 41 OF R85			



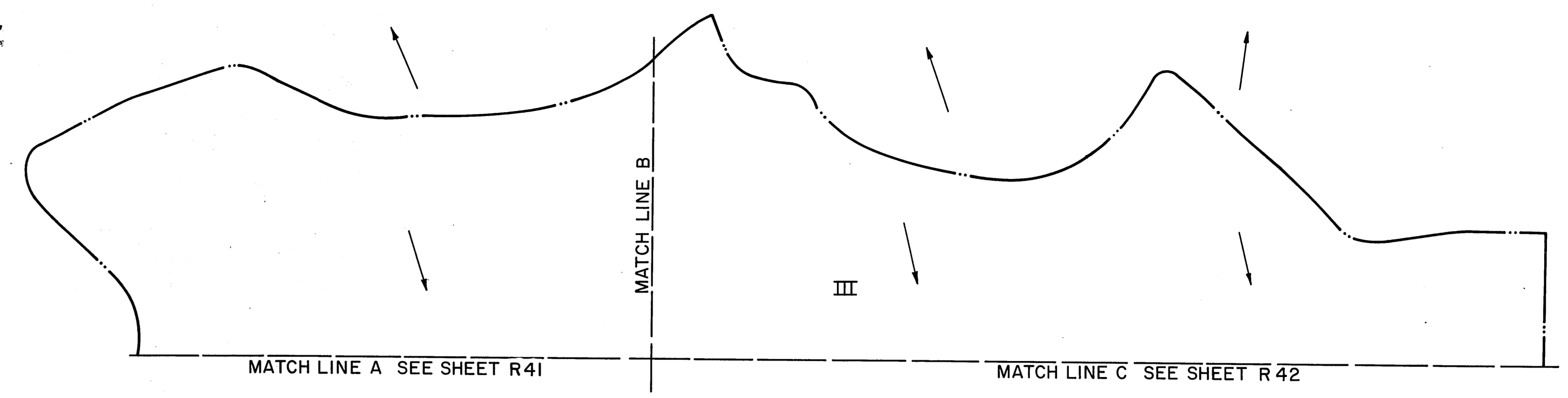
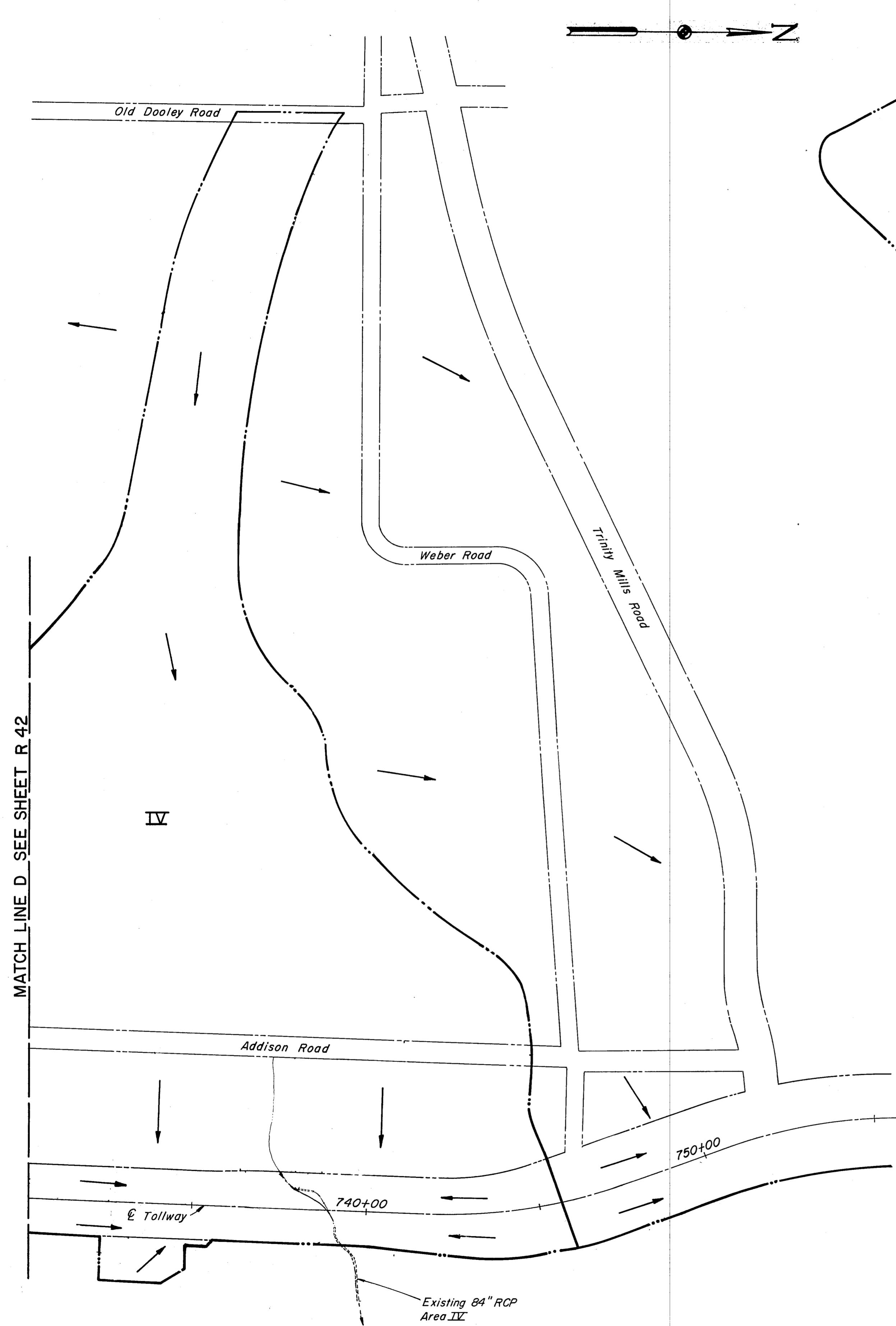
MATCH LINE C SEE SHEET R 43

MATCH LINE D SEE SHEET R 43

MATCH LINE B SEE SHEET R 41



NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
DRAINAGE AREA MAP			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN	CJB/VER	DATE	5/9/83
DESIGNED	KJ	DATE	4/15/83
CHECKED	DWC	DATE	5/8/84
SCALE	1" = 200'		
CONTRACT NO. DNT-115 SHEET R 42 OF R85			



Drainage Area #F	Area (acs)	Time of Concentration (min.)	Discharge (C.F.S.)
I	224.8	15.5	1330
II	118.9	30.5	483
III	309.0	26.5	1365
IV	86.0	27.1	375

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
DRAINAGE AREA MAP			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN CJB	DATE 4/18/83	DESIGNED KJ	DATE 4/15/83
CHECKED DWC	DATE 5/8/84	SCALE 1" = 200'	
CONTRACT NO. DNT-115 SHEET R 43 OF R85			

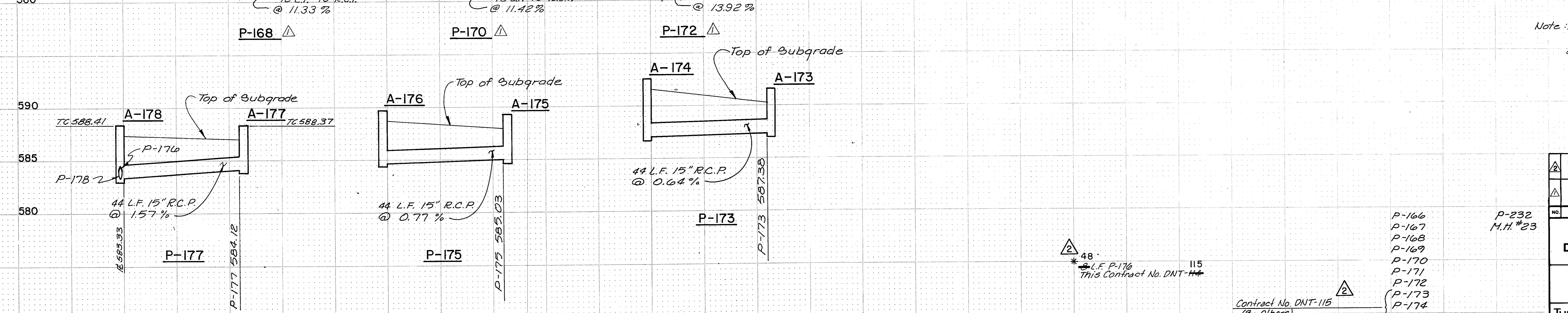
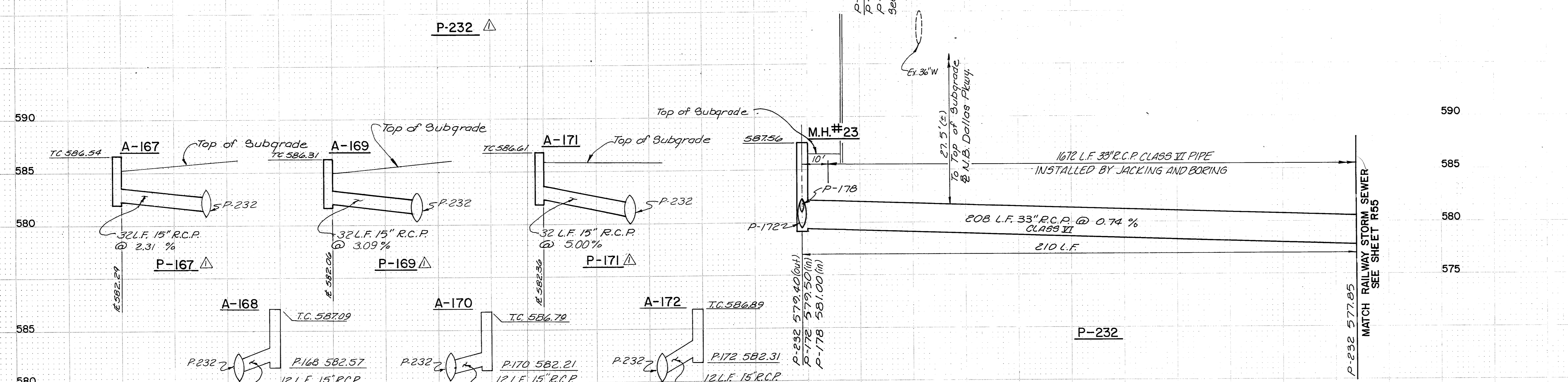
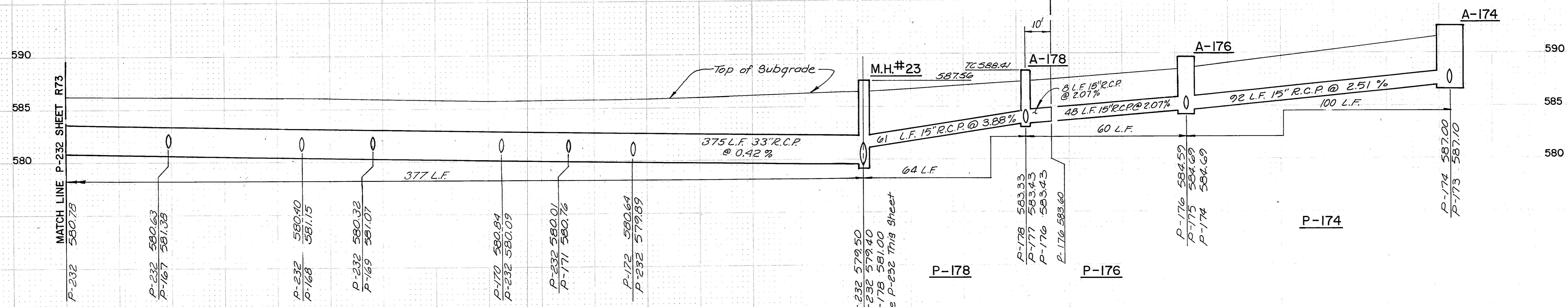
STORM SEWER SUMMARY

STORM SEWER OR LATERAL IDENTIFICATION	FROM	TO	SIZE (IN.)	LENGTH (FT.)	TYPE	REMARKS
LINE L						
	L-1	A-1	18	70		
	A-1	L-24	21	3		
LATERAL	L-2	L-24	21	22		
	L-24	A-2	21	234		
	A-2	L-28	30	3		
LATERAL	L-7	L-28	21	27		
	L-28	L-29	30	45		
LATERAL	L-8	L-29	18	27		
	L-29	L-30	30	52		
LATERAL	L-10	L-30	18	65		
	L-30	L-41	30	45		
LATERAL	L-11	L-41	18	60		
	L-41	L-31	30	10		
LATERAL	L-12	L-31	18	24		
	L-31	L-32	30	109		
LATERAL	L-13	L-32	18	27		
	L-32	L-33	30	165		
LATERAL	L-14	L-33	18	27		
	L-33	L-51	30	34		
	L-51	L-34	30	162		
LATERAL	L-15	L-34	18	27		
	L-34	A-5	30	107		
	A-5	L-35	33	3		
LATERAL	L-16	L-35	18	27		
	L-35	A-6	33	74		
	A-6	L-36	36	3		
	L-36	L-50	36	47		
	L-50	L-37	36	62		
LATERAL	L-18	L-37	18	27		
	L-37	A-7	36	49		
	A-7	L-40	48	3		
LATERAL	L-20	L-42	27	12		
LATERAL	L-17	L-42	27	6		
LATERAL	L-42	L-40	33	24		
	L-40	L-38	48	146		
LATERAL	L-19	L-38	18	27		
	L-38	E-57	48	104		
	E-57	L-39	48	34		
LINE M						
	M-1	L-40	72	14		
LATERAL	L-20	L-40	18	16		
	L-40	L-39	72	45		
	L-39	L-41	72	5		
LATERAL	L-21	L-41	21	30		
	L-41	M-10	72	23		
LATERAL	M-8	M-10	21	53		
	M-10	L-42	72	80		
LATERAL	L-22	E-53	18	42		
LATERAL	E-53	L-42	18	37		
	L-42	L-44	72	33		
	F-3	A-1	30	67		
	A-1	L-43	36	3		
LATERAL	L-23	L-43	21	17		
	L-43	L-45	36	54		
LATERAL	E-55	L-45	18	16		
	L-45	L-44	36	57		
	L-44	E-58	72	34		
LATERAL	E-54	E-58	18	6		
	E-58	F-5	72	5		
LATERAL	S-9	S-10	18	15		
	F-1	F-2	36	104		
LINE P						
	A-12	P-7	42	3		
	P-7	P-8	42	231		
LATERAL	P-2	P-8	21	35		
	P-8	P-20	42	370		
	P-20	A-2	42	109		
	A-2	P-9	48	3		
LATERAL	P-3	P-9	21	9		
	P-9	A-3	48	252		
	A-3	P-11	48	3		
LATERAL	P-4	P-11	15	9		
	P-11	P-21	48	229		
	P-21	P-10	48	96		
LATERAL	P-6	P-10	21	41		
	P-10	A-4	48	18		
	A-4	P-12	60	3		
LATERAL	P-5	P-12	21	9		
	P-12	O-2	60	814		
LATERAL	O-1	O-2	21	9		
	O-2	O-5	60	7		
LATERAL	O-4	O-5	21	37		
	O-5	O-3	60	60		

STORM SEWER OR LATERAL IDENTIFICATION	FROM	TO	SIZE (IN.)	LENGTH (FT.)	TYPE	REMARKS
LINE S						
	S-1	S-11	18	206		
LATERAL	S-2	S-11	18	36		
	S-11	S-12	18	168		
LATERAL	S-3	S-12	18	36		
	S-12	S-13	18	218		
LATERAL	S-4	S-13	18	36		
	S-13	A-4	21	225		
	A-4	S-14	24	3		
LATERAL	S-5	S-14	18	37		
	S-14	S-21	24	163		
	S-21	S-15	24	113		
LATERAL	S-6	S-15	18	37		
	S-15	S-16	24	265		
LATERAL	S-7	S-16	18	49		
	S-16	S-20	24	18		
	S-20	A-7	24	86		
	A-7	S-17	30	3		
	S-17	S-18	30	73		
LATERAL	S-8	S-18	18	37		
	S-18	S-32	30	140		
LATERAL	S-30	S-32	18	37		
	S-32	S-33	30	71		
LATERAL	S-31	S-33	18	35		
	S-33	S-19	30	25		
CUL 2						
LATERAL	C-30	C-31	18	117		
	O-11	A-1	21	461		
	A-1	O-12	27	3		
LATERAL	O-9	O-12	21	30		
	O-12	O-8	27	6		

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER SUMMARY			
Gibbs & Hill, Inc. <small>ENGINEERS DESIGNERS CONSTRUCTORS</small> <small>DALLAS</small>			SECTION VII
DRAWN <u>AEL</u> DATE <u>7/30/84</u> CHECKED <u>DWC</u> DATE <u>7/30/84</u>	DESIGNED <u>AEL</u> DATE <u>7/30/84</u> SCALE <u>None</u>		
CONTRACT NO. <u>DNT-115</u> SHEET <u>R48</u> OF <u>R85</u>			

CONTRACT NO. DNT-114 (BY OTHERS) CONTRACT NO. DNT-115 (BY OTHERS)



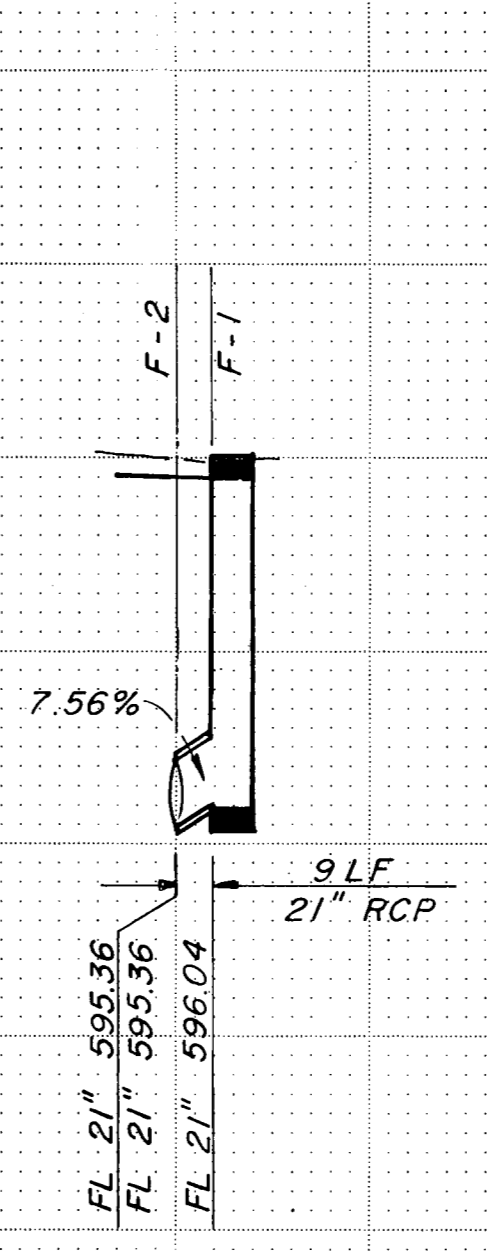
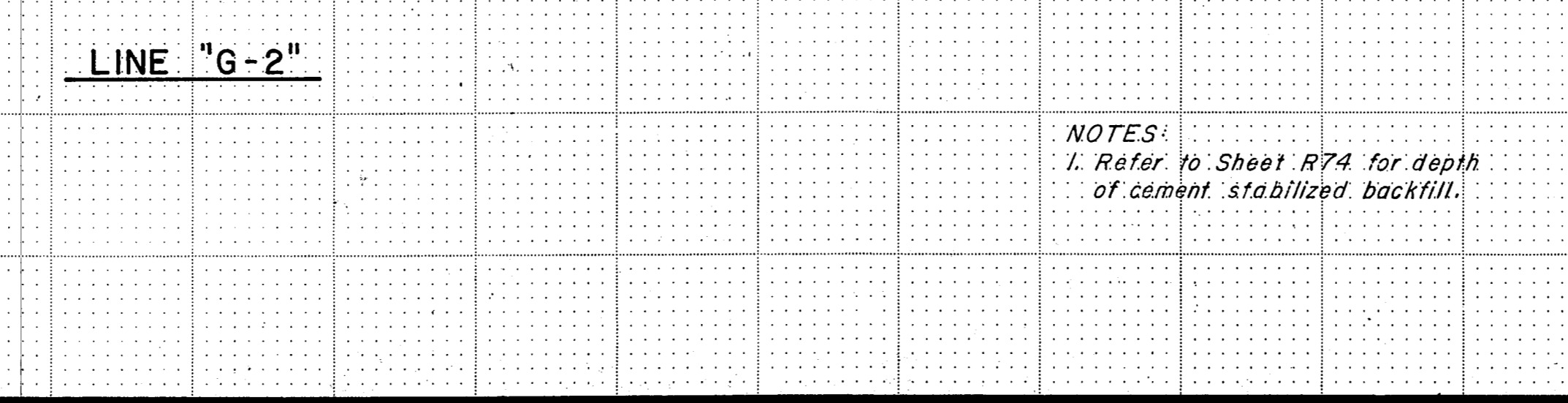
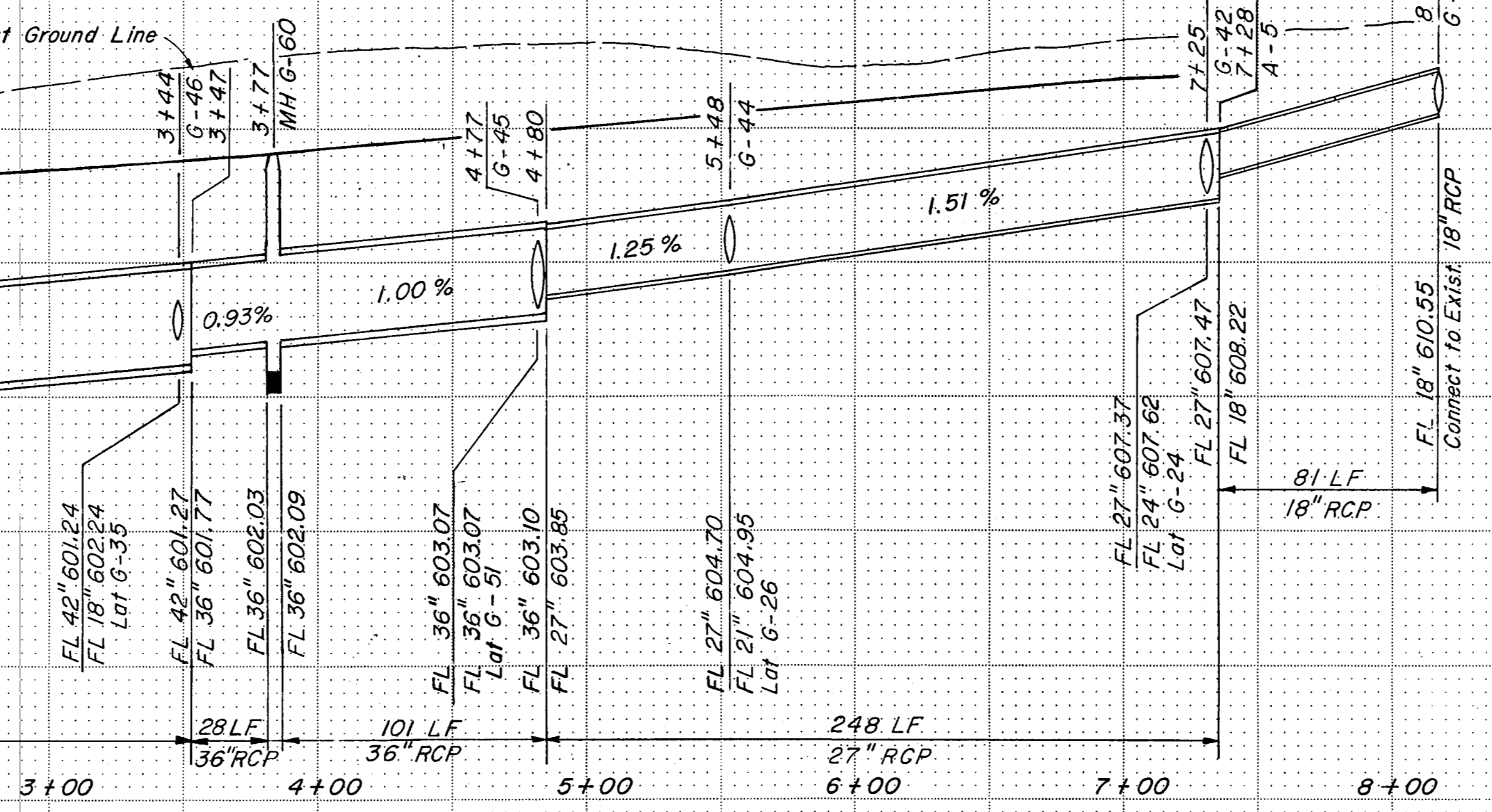
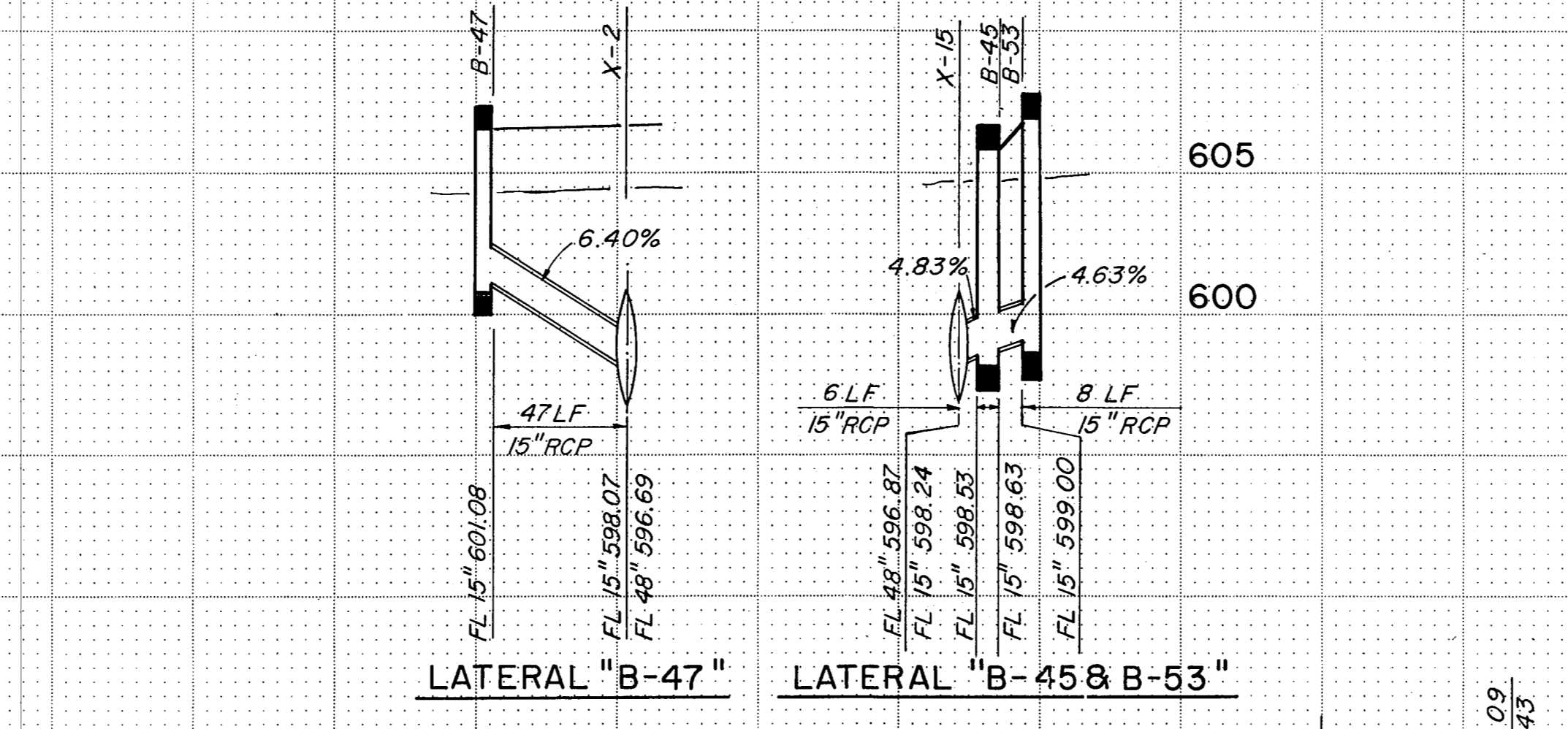
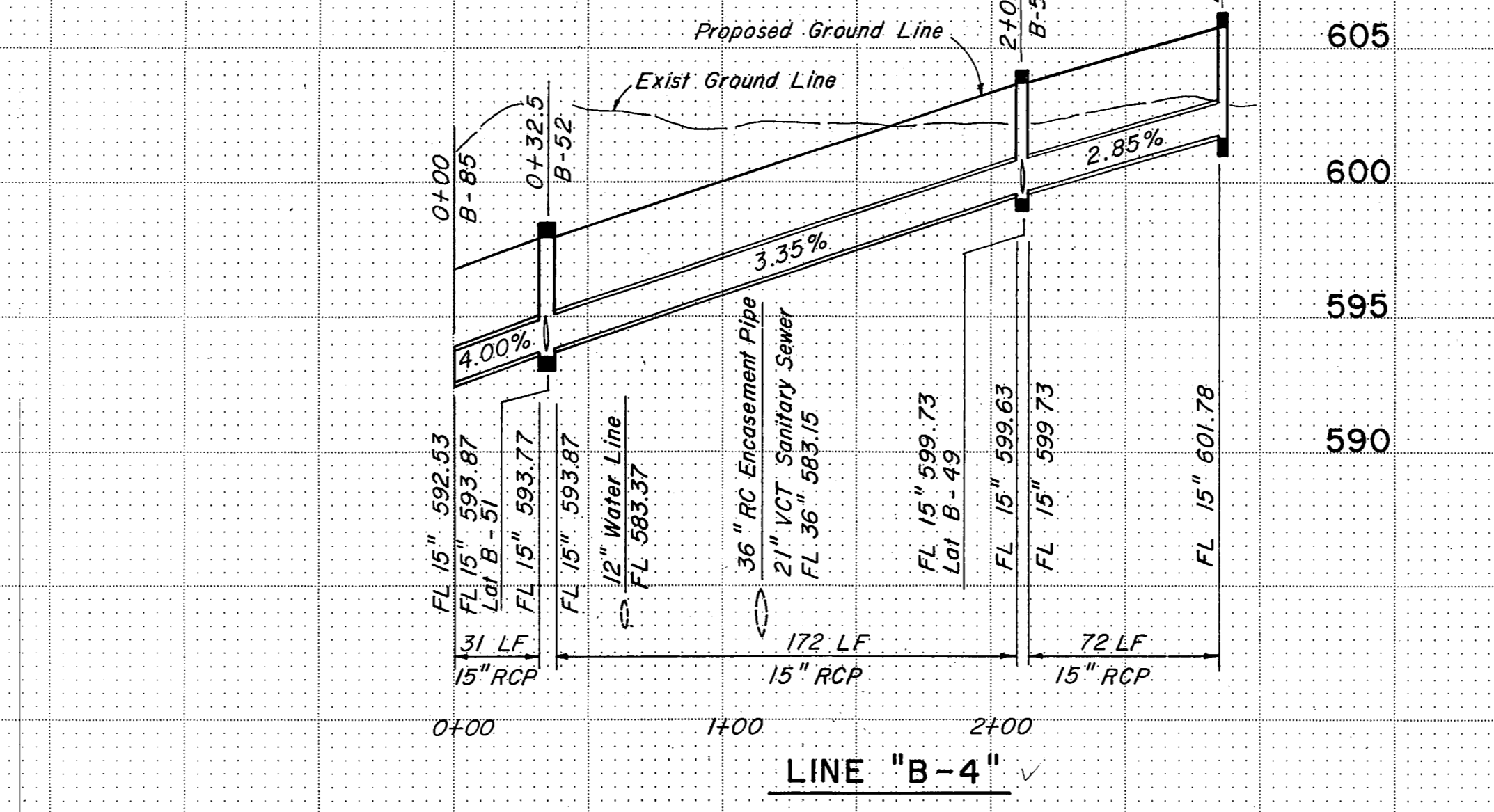
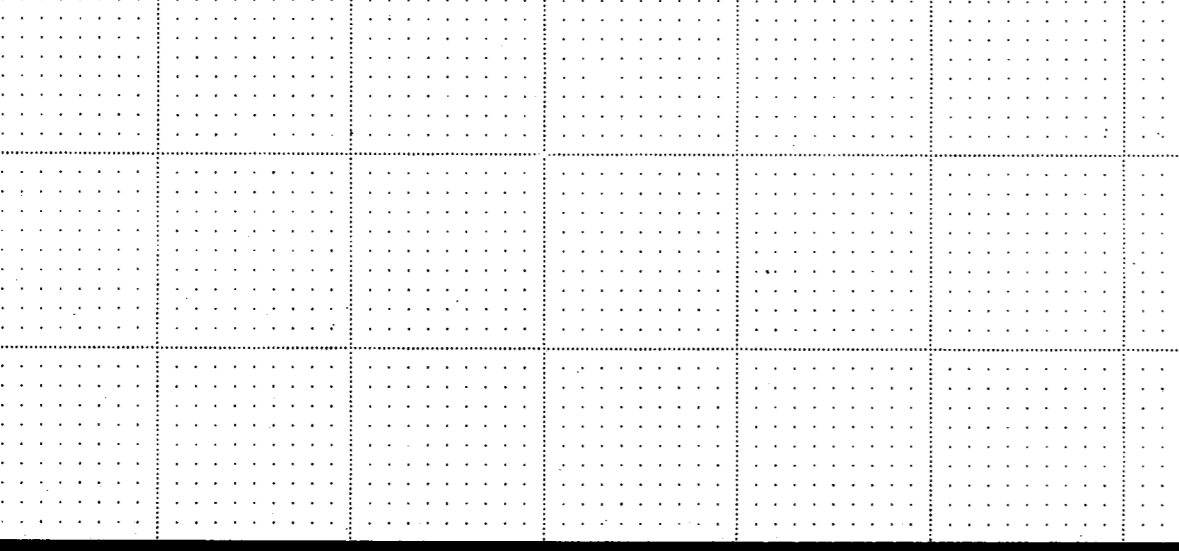
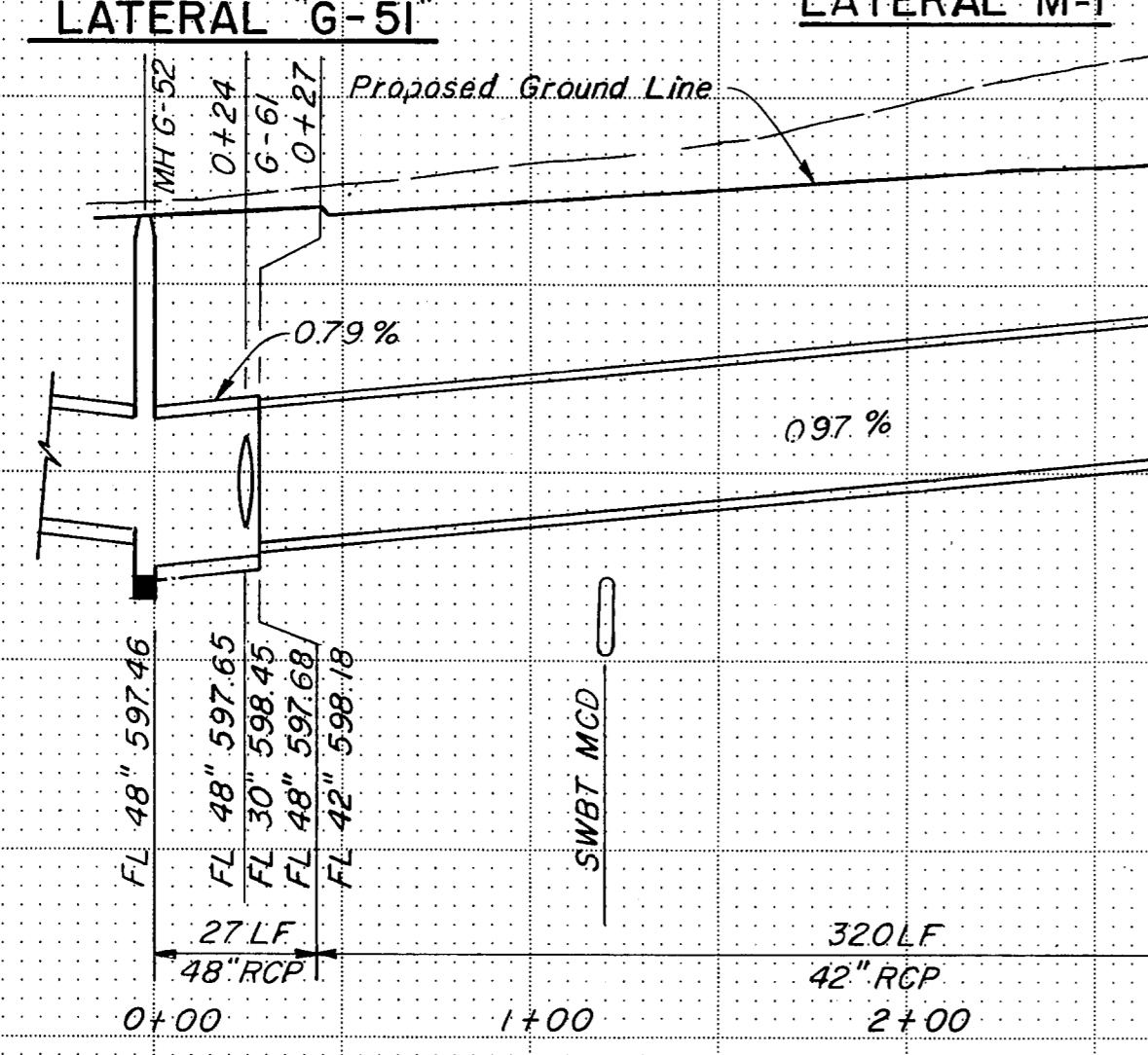
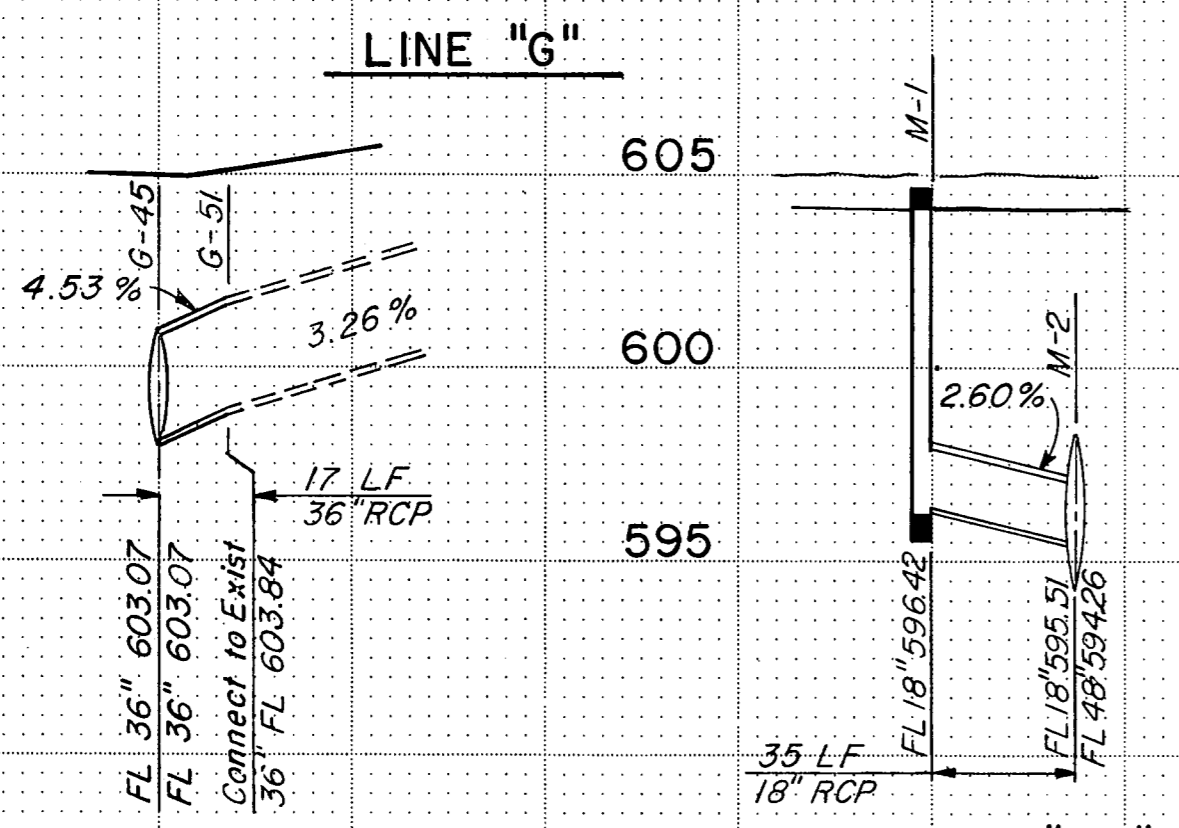
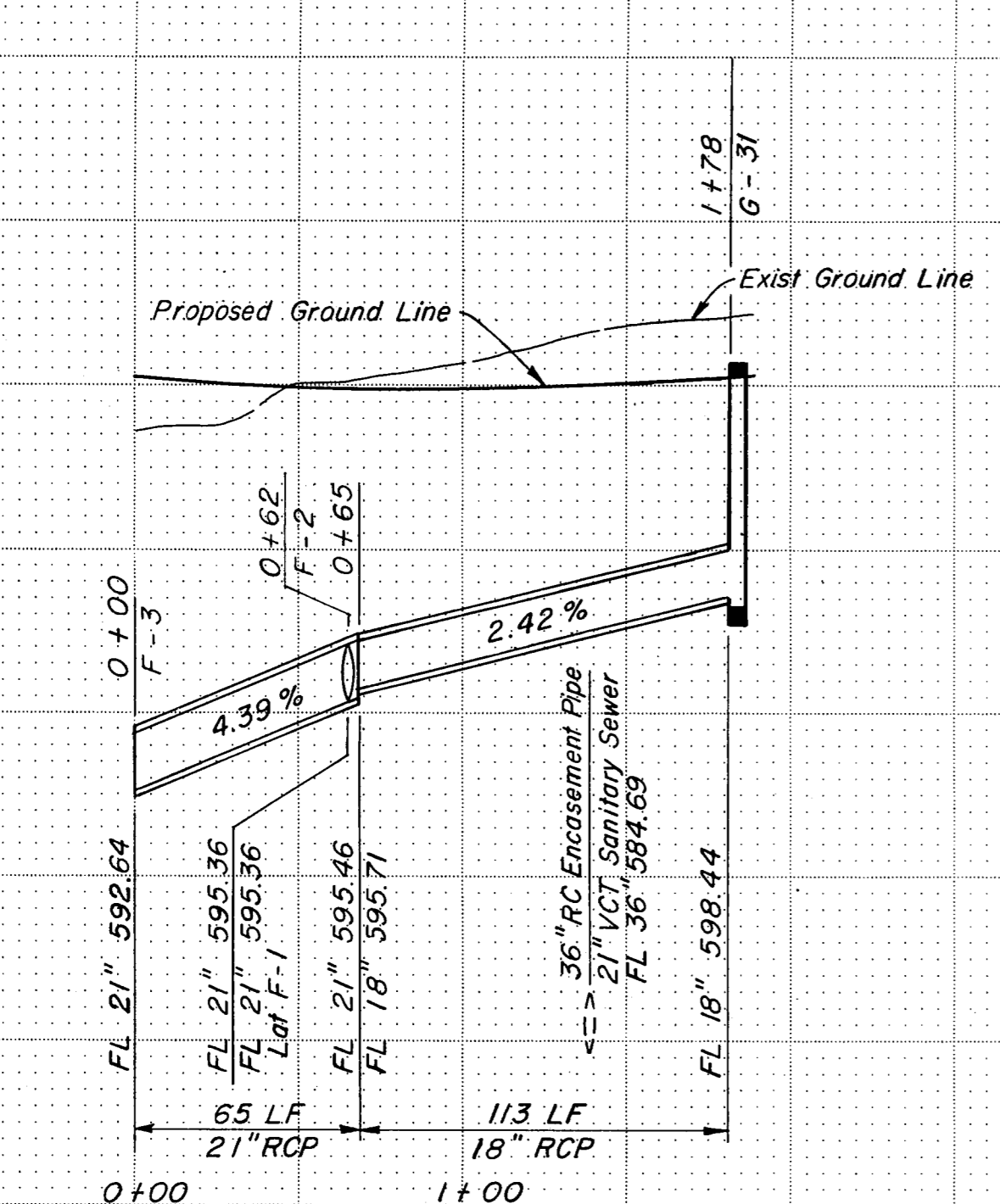
Note: 1. All R.C.P. to be Class III unless noted, R15
 2. See sheet R44 for horizontal location of pipes.

- P-166
- P-167
- P-168
- P-169
- P-170
- P-171
- P-172
- P-173
- P-174
- P-175
- P-176 *
- P-177
- P-178

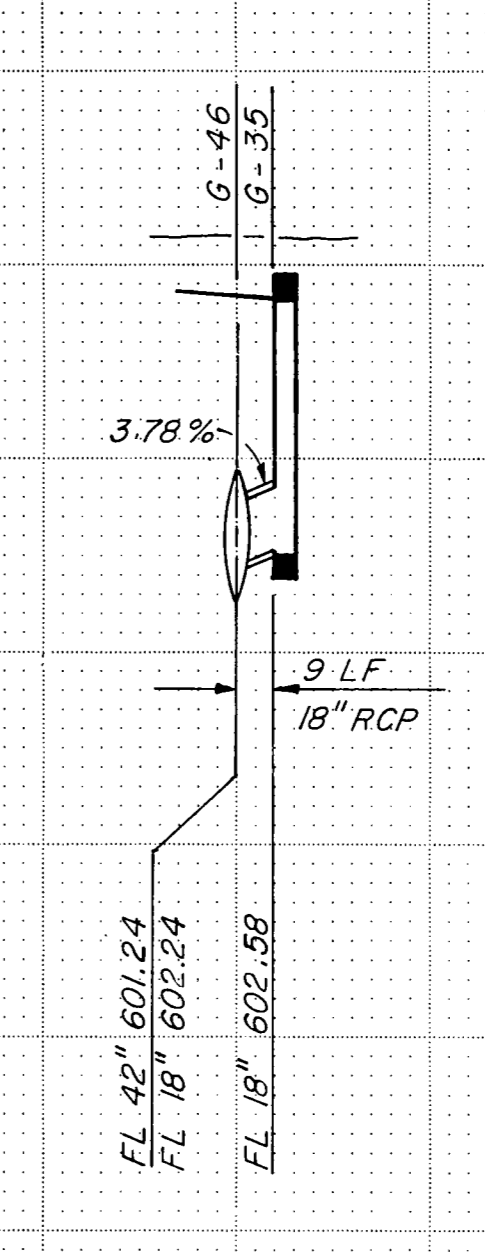
48' L.F. P-176 This Contract No. DNT-114

Contract No. DNT-115 (By Others)

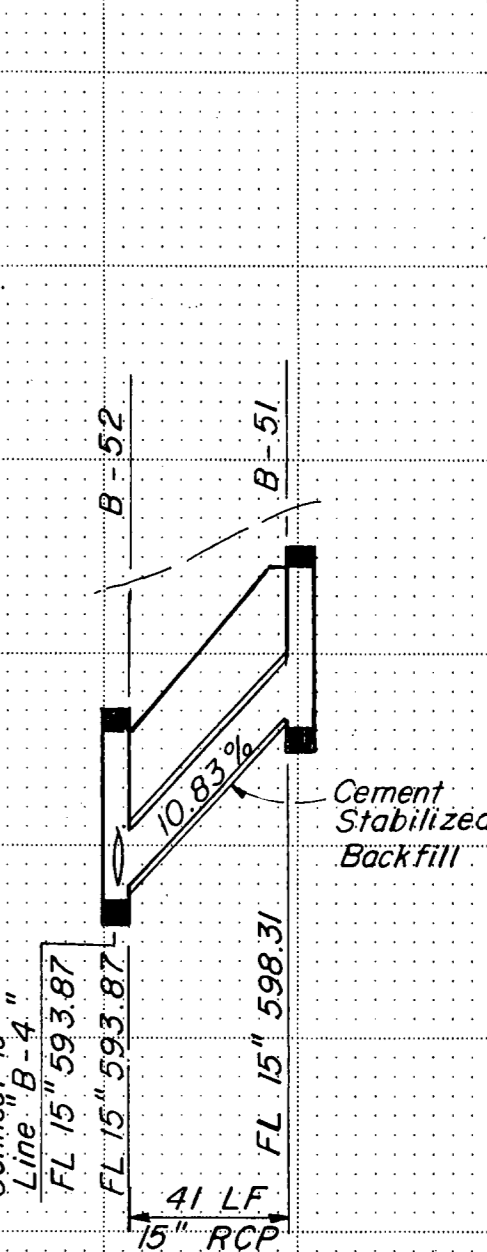
REVISION	BY	DATE
REVISED SHEET FOR CONTRACT DNT-115 STORM SEWER AND LATERALS FROM M.H.#22 TO M.H.#23		
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY		
STORM SEWER PROFILE		
Turner Collier & Braden Inc.		SECTION VII
MADE D.W.G. DATE 7-83	TRACED A.L.A. DATE 7-83	
CHECKED J.B.L. DATE 7-83	SCALE H1=20' / V1=5'	
CONTRACT NO. DNT-115 SHEET R49 OF R85		



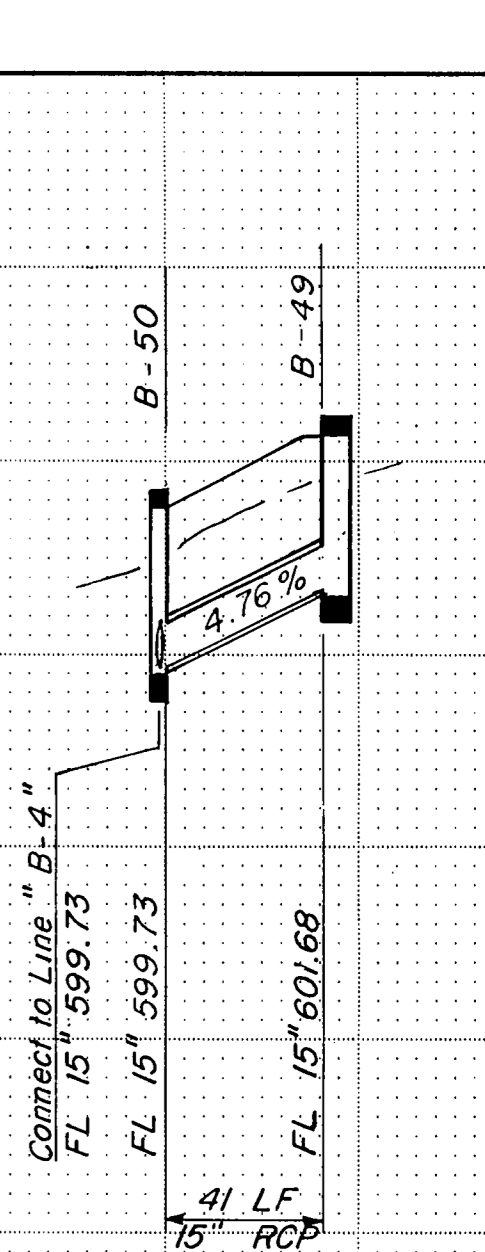
LATERAL "F-1"



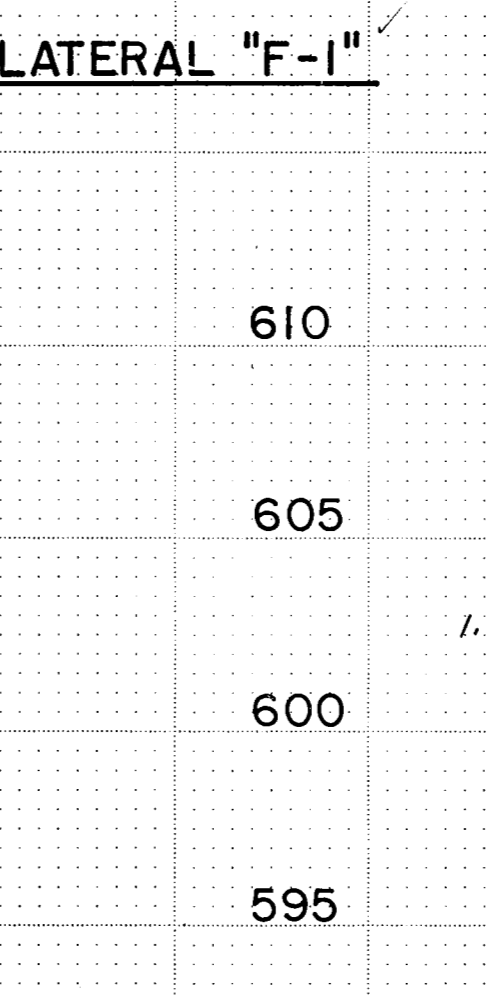
LATERAL "G-35"



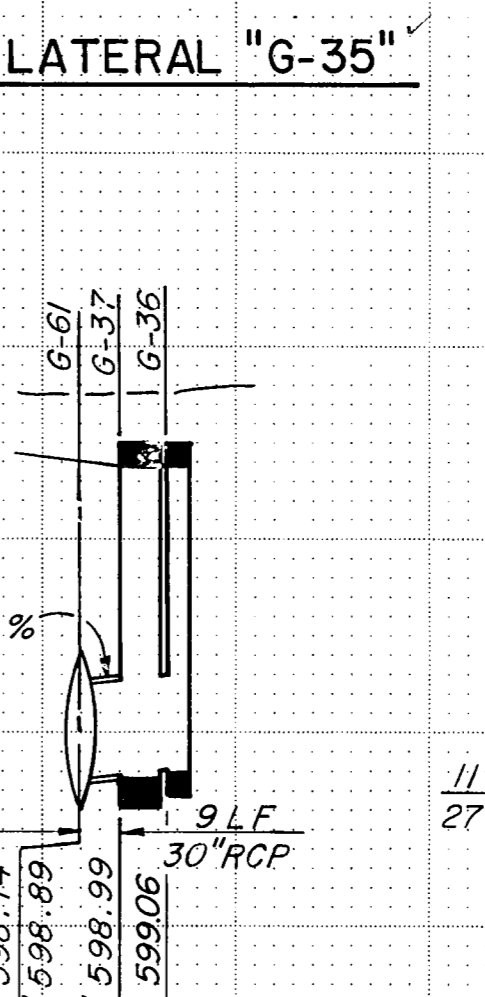
LATERAL "B-51"



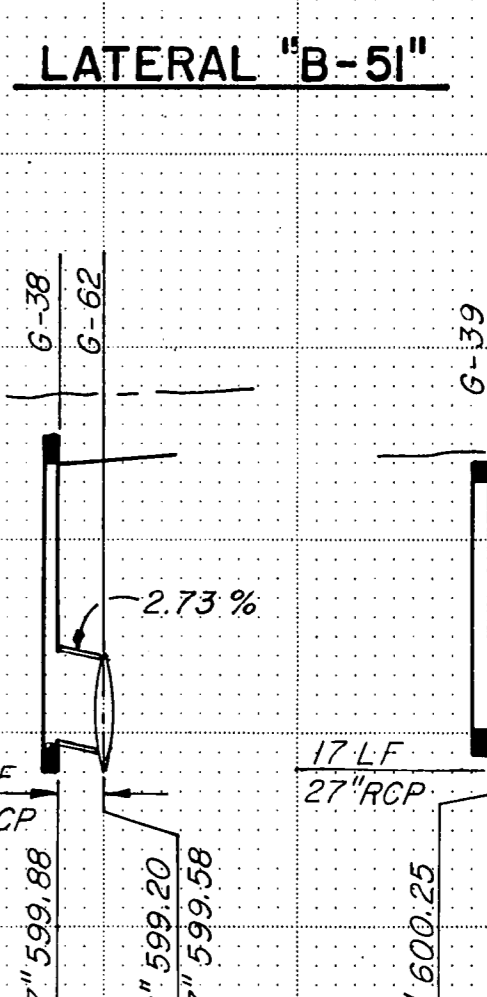
LATERAL "B-49"



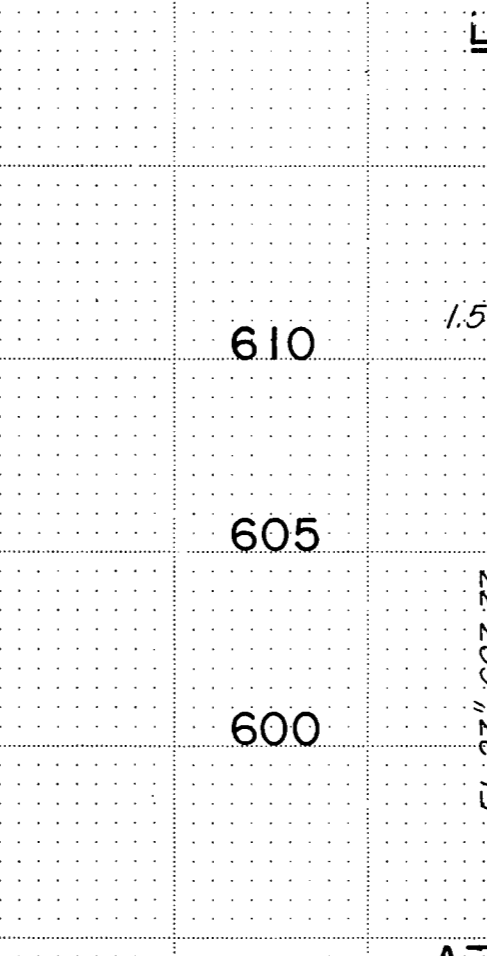
LATERAL "G-37"



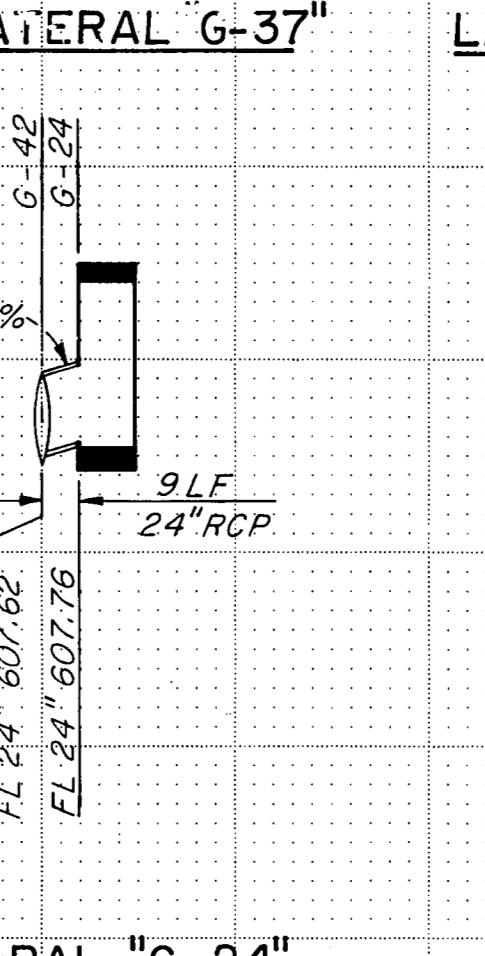
LATERAL "G-38"



LATERAL "G-39"



LATERAL "G-24"

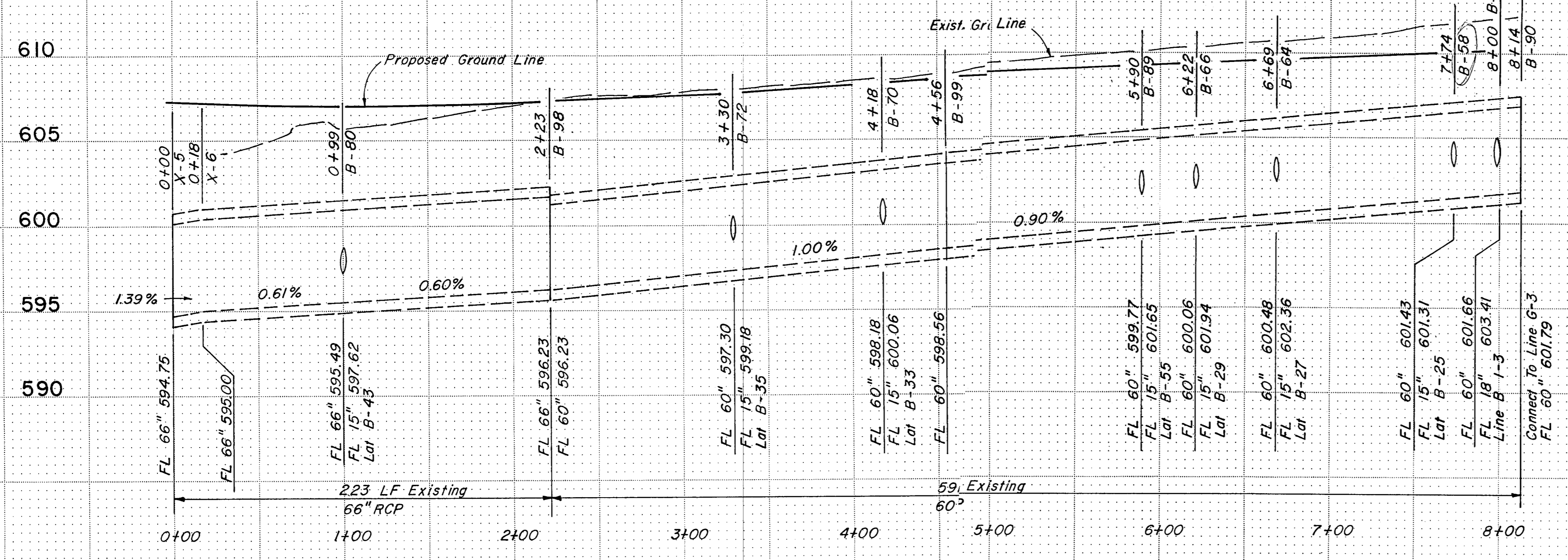


LATERAL "G-26"

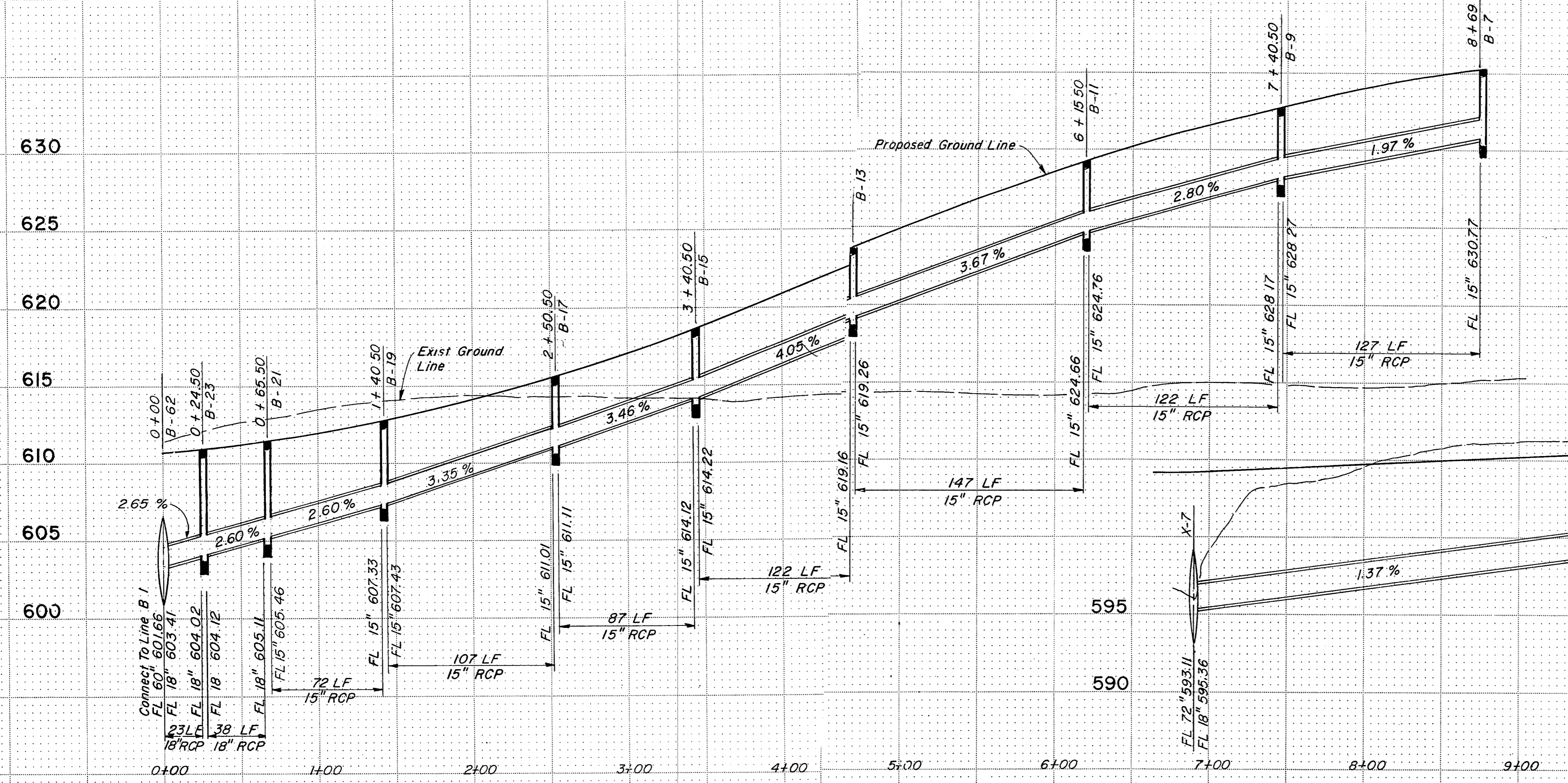
NOTES:
1. Refer to Sheet R74 for depth of cement stabilized backfill.

STORM SEWER LINE: "G", "G-2", "B-4"
LATERAL: "B-45 & B-53", "B-49", "B-51",
"B-47", "F-1", "G-24", "G-26",
"G-35", "G-37", "G-38", "G-39",
"G-51", "M-1"

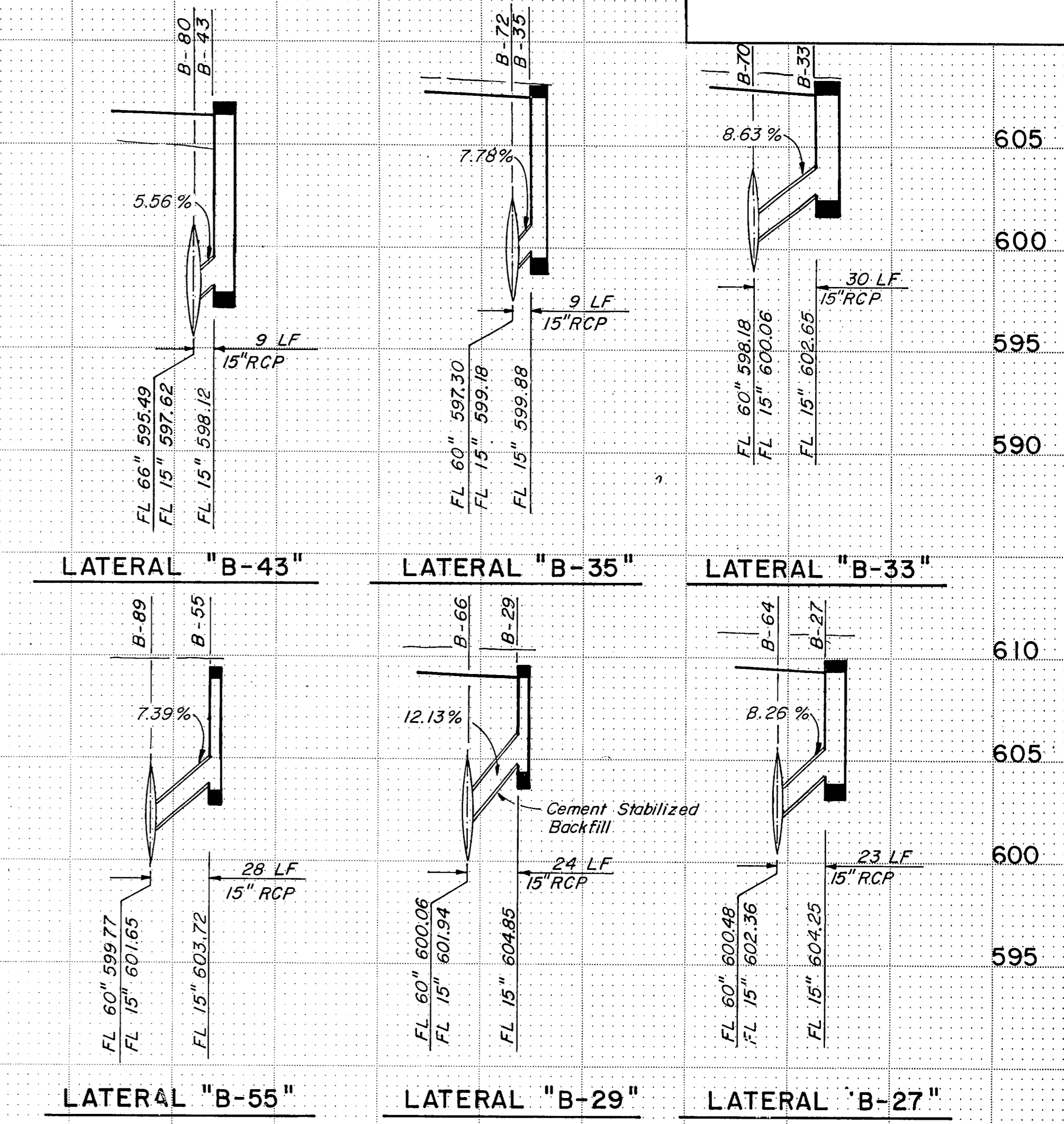
NO.		REVISION		BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY					
STORM SEWER PROFILES					
Gibbs & Hill, Inc.					
MADE	AELT	DATE	1/84	TRACED	AELT
CHECKED	MGB	DATE	7/84	SCALE	1"=50'H 1"=5'V
CONTRACT NO. DNT-115 SHEET R50 OF R85					



LINE "B-1"



LINE "B-1-3"

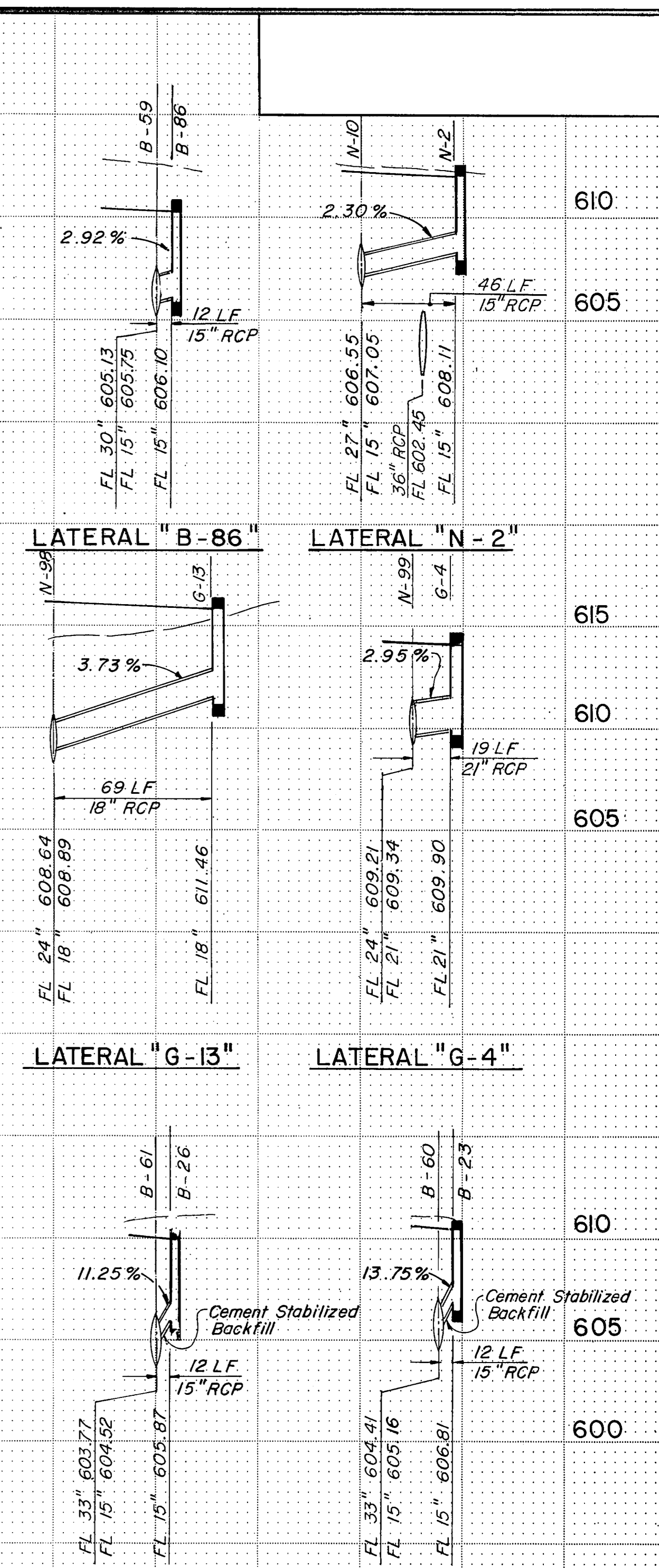
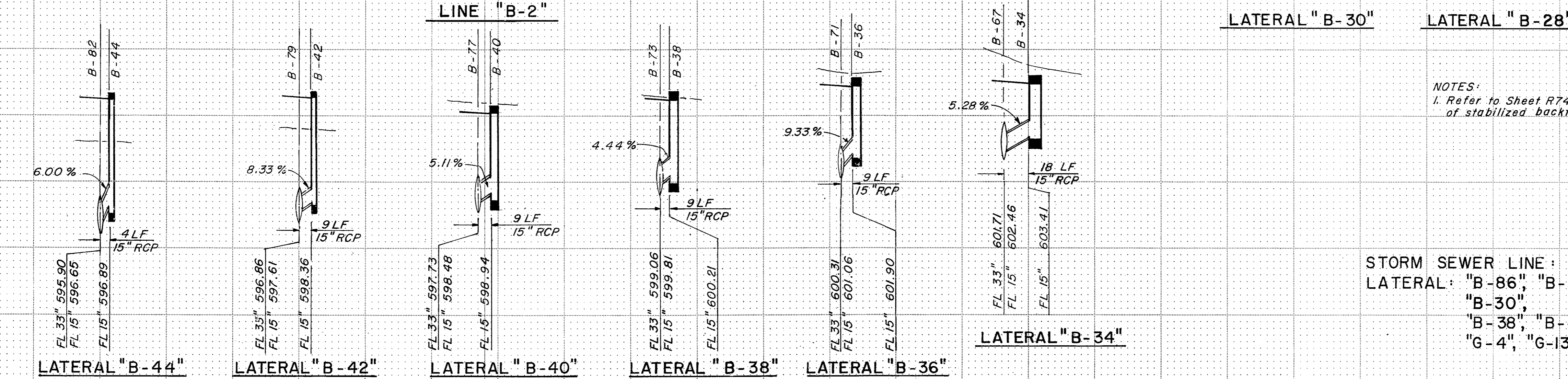
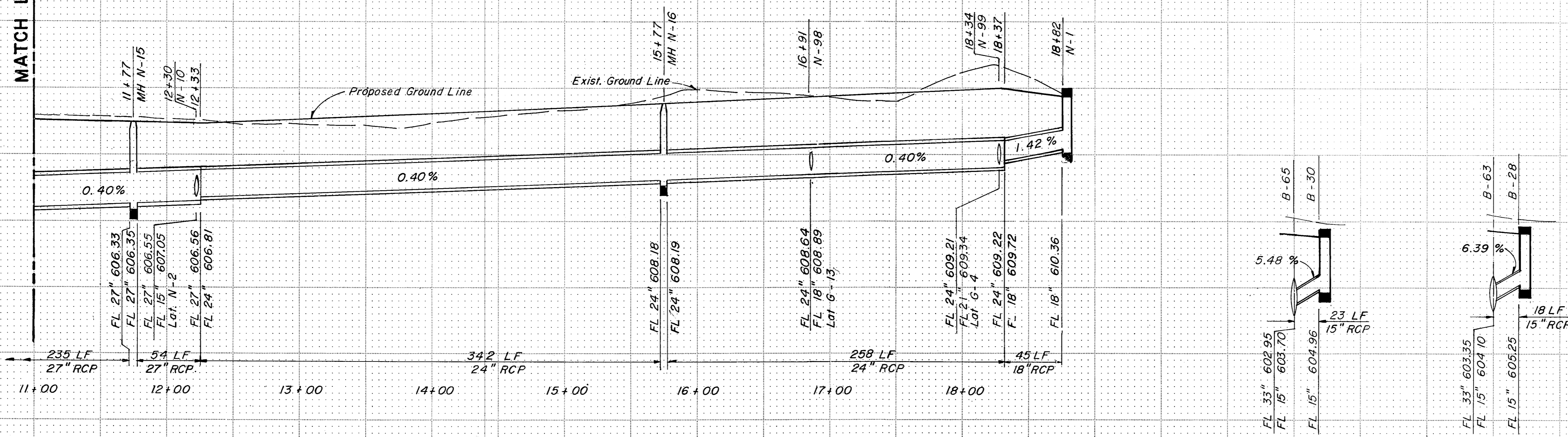
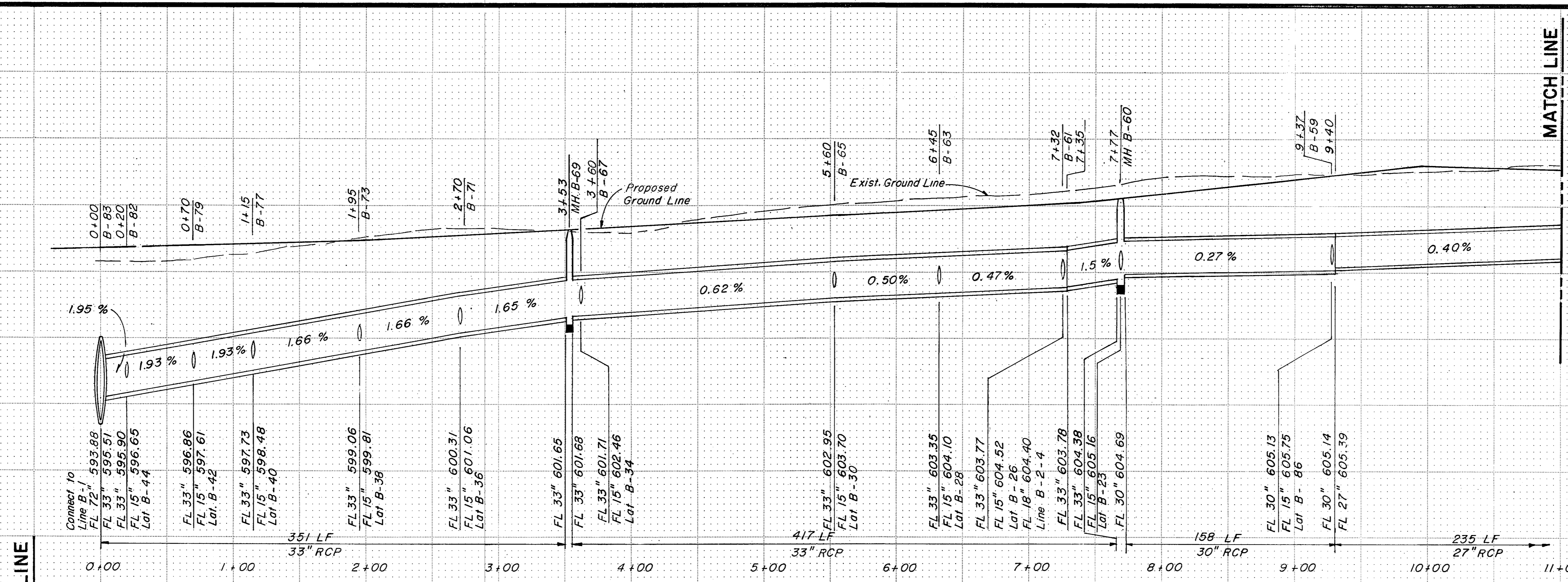


NOTES:
1. Refer to Sheet R74 for depth of stabilized backfill.

LATERAL "B-43"
LATERAL "B-35"
LATERAL "B-33"
LATERAL "B-55"
LATERAL "B-29"
LATERAL "B-27"
LATERAL "B-25"
LATERAL N-3

STORM SEWER LINE: "B-1", "B-1-3"
LATERAL: "B-25", "B-27", "B-29", "B-33", "B-35", "B-43", "B-55", "N-3"

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE	ALLT	DATE	4/84
CHECKED	REW	DATE	4/84
SCALE		1"=50' H 1"=5' V	
CONTRACT NO. DNT-115 SHEET R51 OF R85			



NOTES:
1. Refer to Sheet R74 for depth of stabilized backfill.

STORM SEWER LINE: "B-2"
LATERAL: "B-86", "B-23", "B-26", "B-28", "B-30", "B-34", "B-36", "B-38", "B-40", "B-42", "B-44", "G-4", "G-13", "N-2"

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE AELT	DATE 4/84	TRACED MAV	DATE 4/84
CHECKED REW	DATE 4/84	SCALE	1"=50'H 1"=5'V
CONTRACT NO. DNT-115 SHEET R52 OF R85			

635

630

625

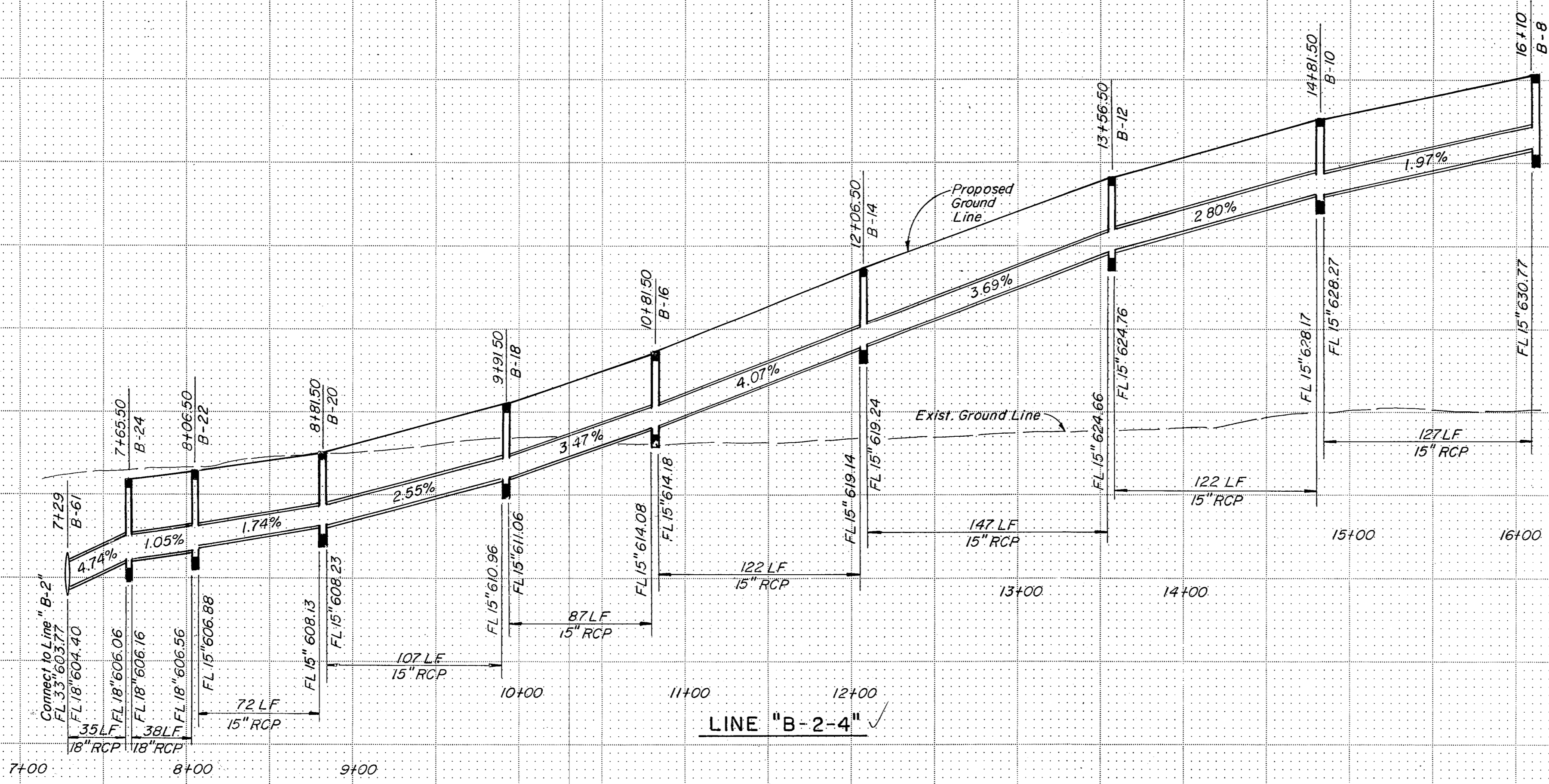
620

615

610

605

600



LINE "B-2-4"

635

630

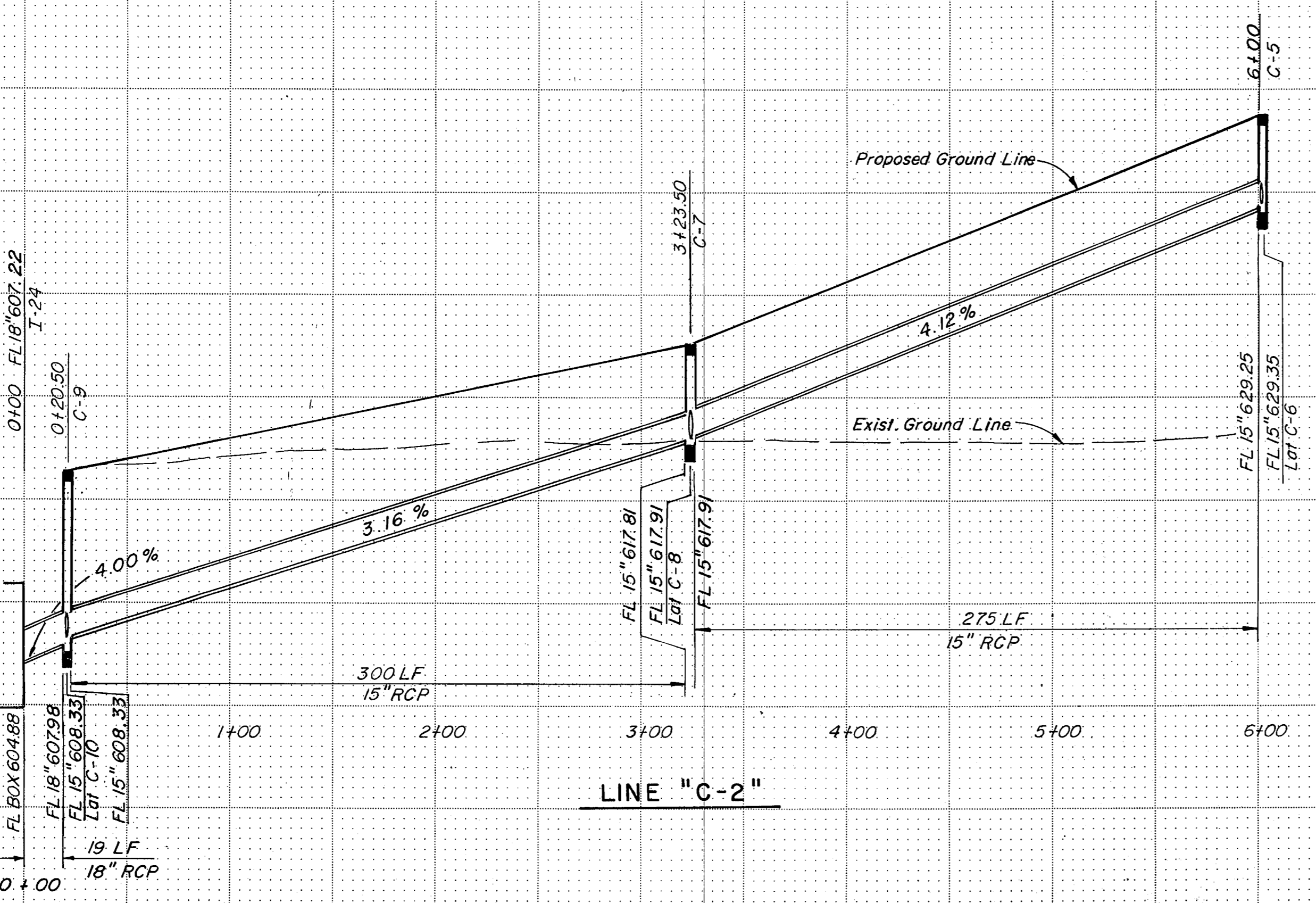
625

620

615

610

605



LINE "C-2"

635

630

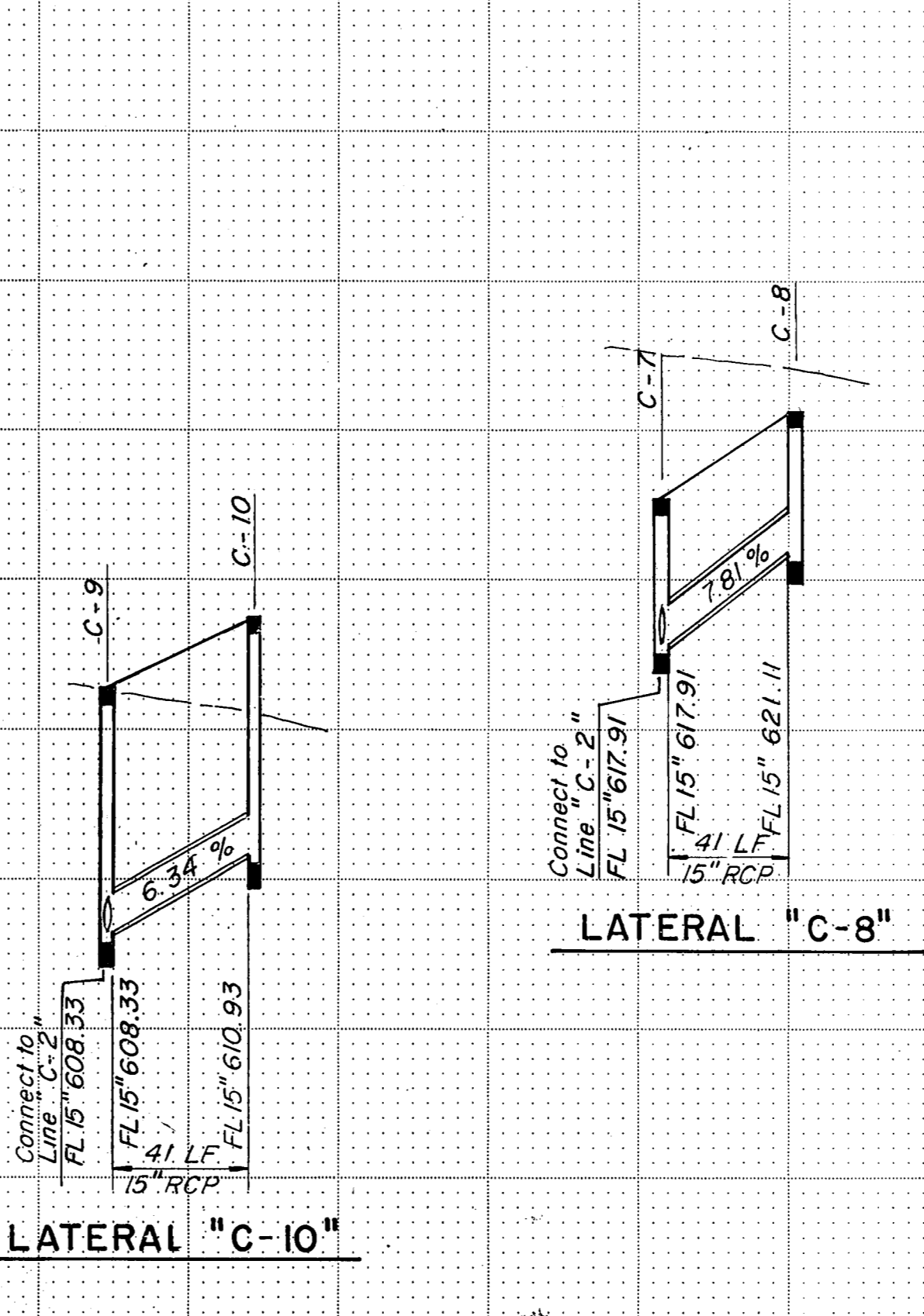
625

620

615

610

605



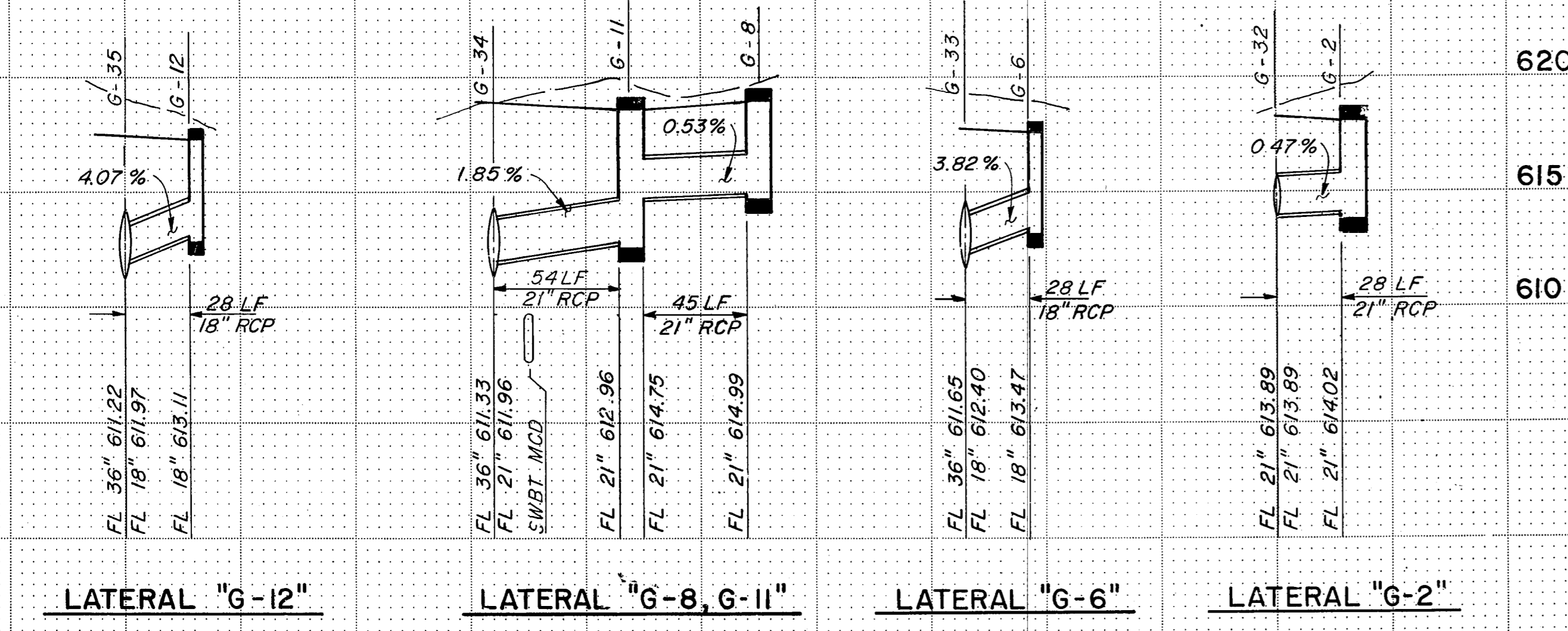
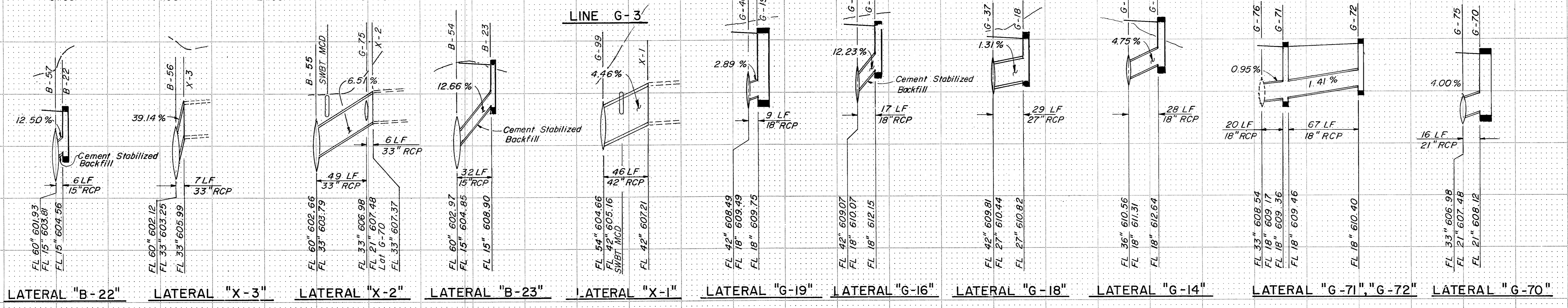
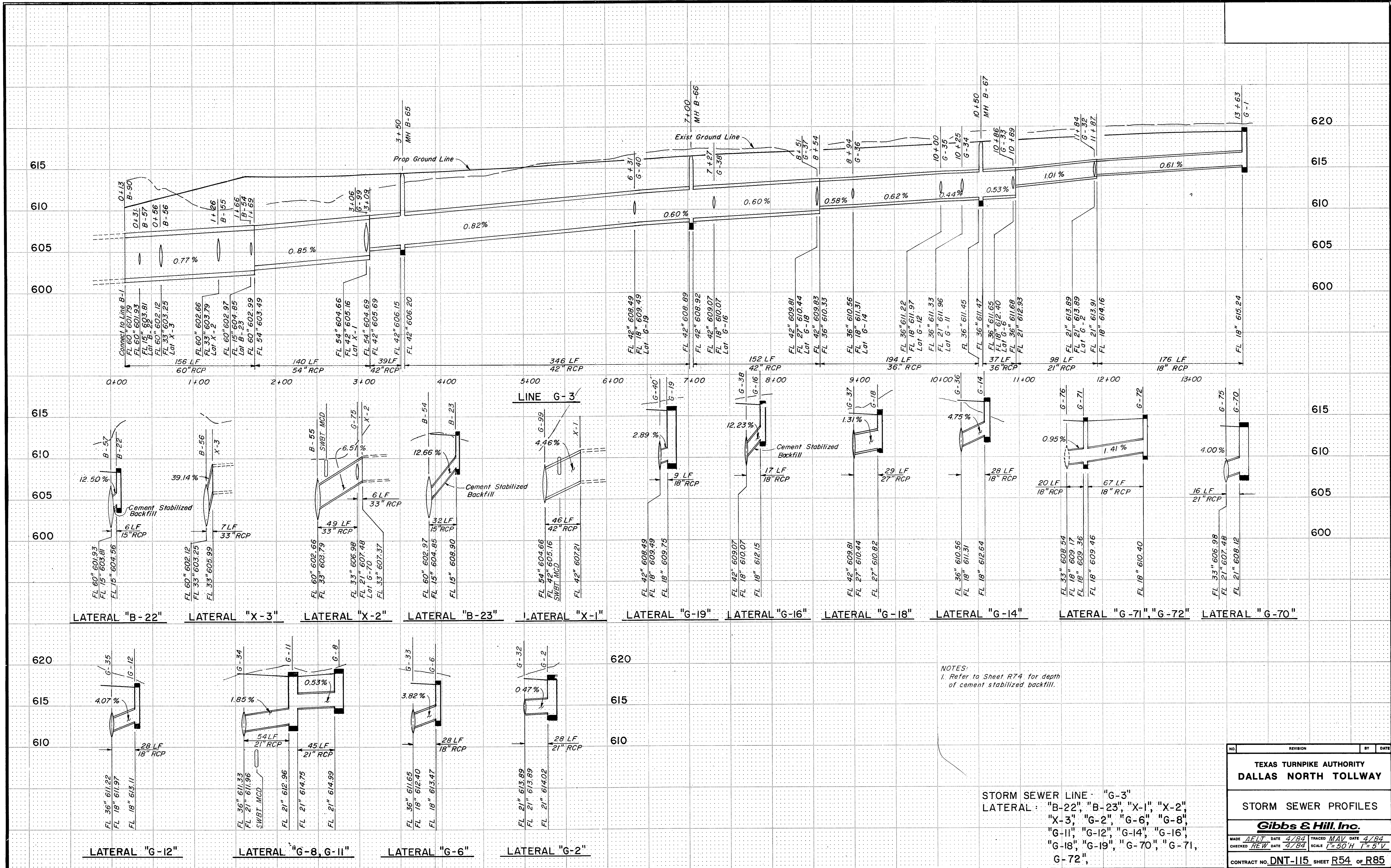
LATERAL "C-10"

LATERAL "C-8"

LATERAL "C-6"

STORM SEWER LINE: "B-2-4", "C-2"
LATERAL: "C-6", "C-8", "C-10"

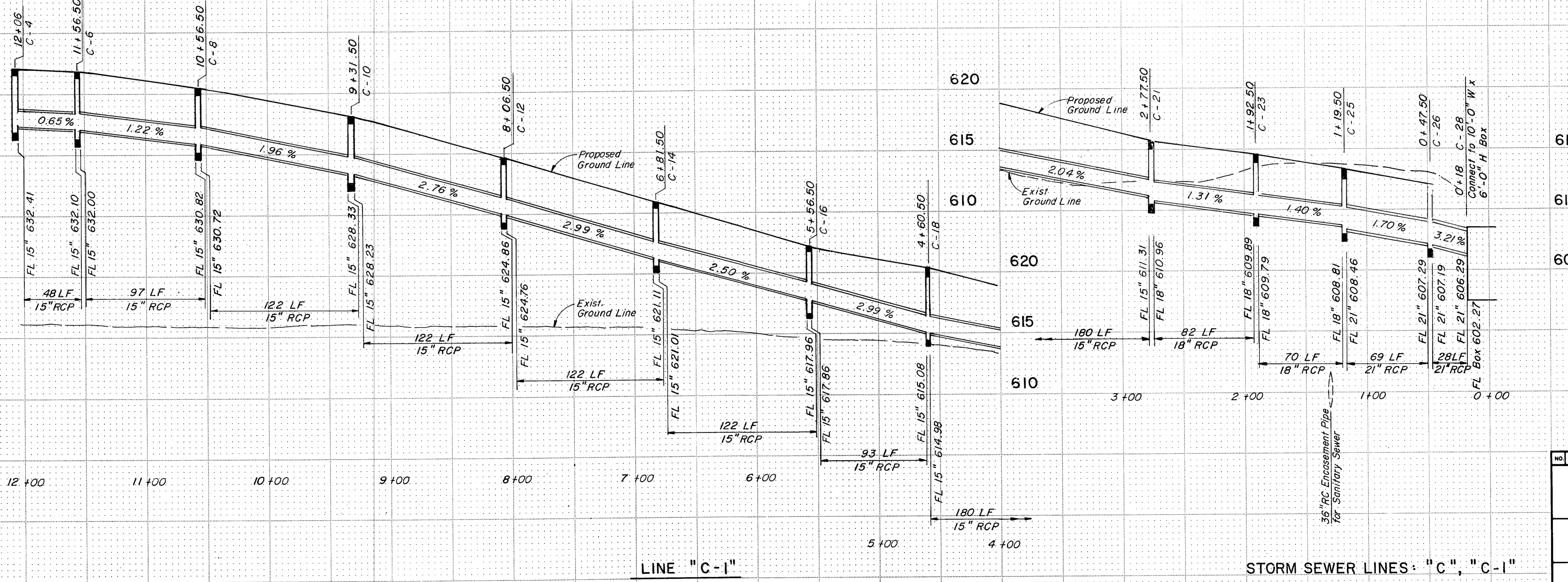
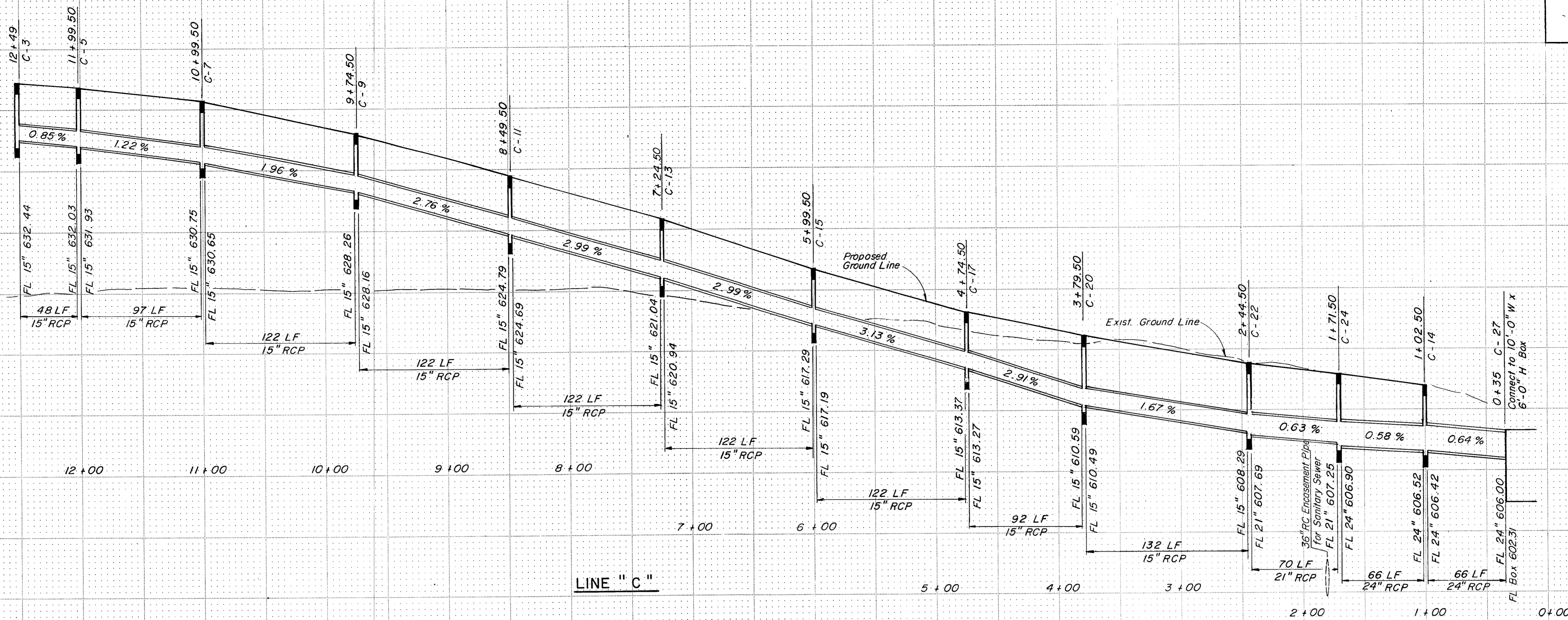
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE	AELT	DATE	12/83
CHECKED	REW	DATE	4/84
TRACED	GWK	DATE	12/83
SCALE	1"=50' H 1"=5' V		
CONTRACT NO. DNT-115 SHEET R53 OF R85			



NOTES:
1. Refer to Sheet R74 for depth of cement stabilized backfill.

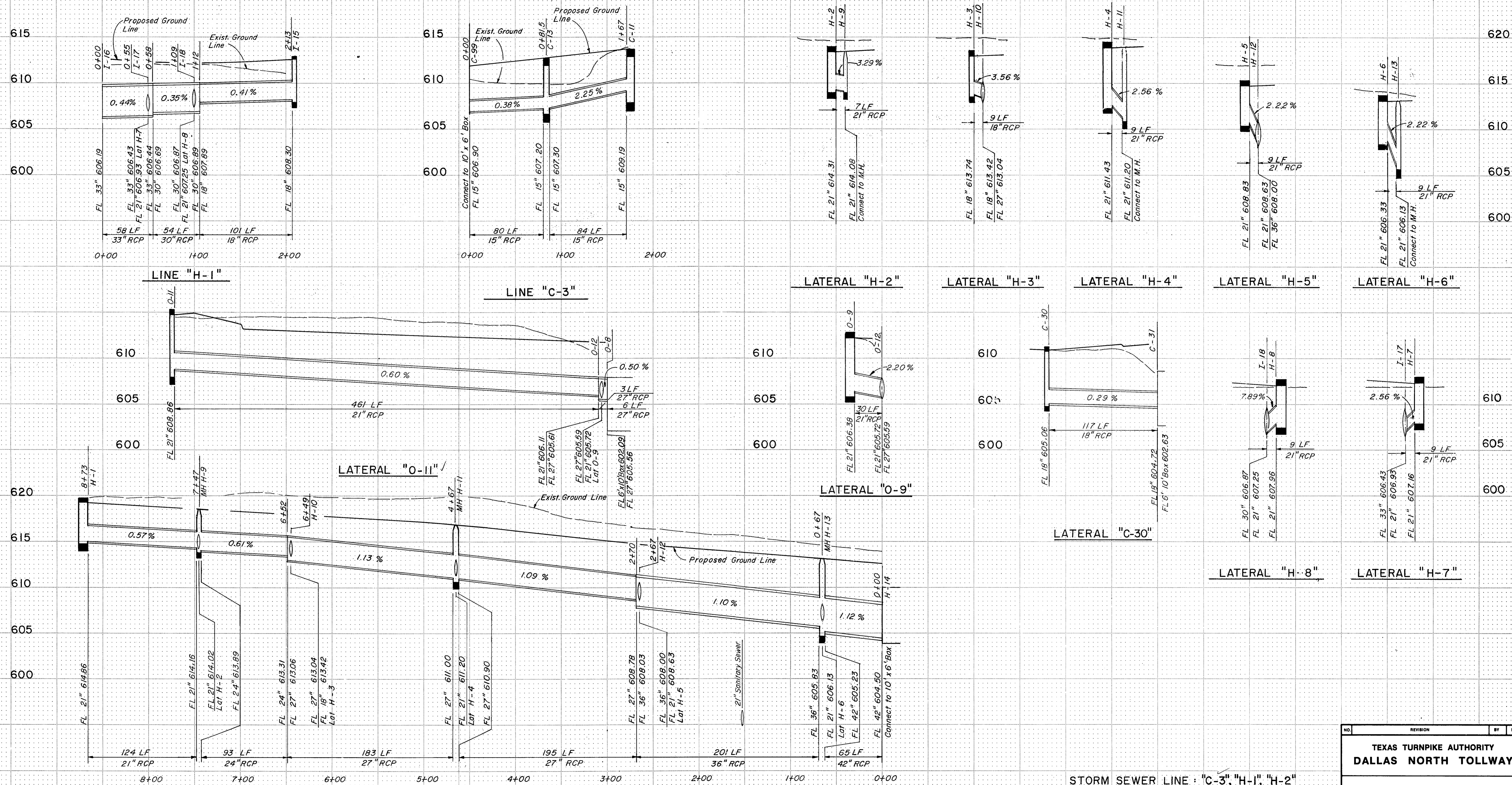
STORM SEWER LINE "G-3"
LATERAL: "B-22", "B-23", "X-1", "X-2", "X-3", "G-2", "G-6", "G-8", "G-11", "G-12", "G-14", "G-16", "G-18", "G-19", "G-70", "G-71, G-72",

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE	AEIT DATE 4/84	TRACED	MAV DATE 4/84
CHECKED	REW DATE 4/84	SCALE	1"=50'H 1"=5'V
CONTRACT NO. DNT-115 SHEET R54 OF R85			



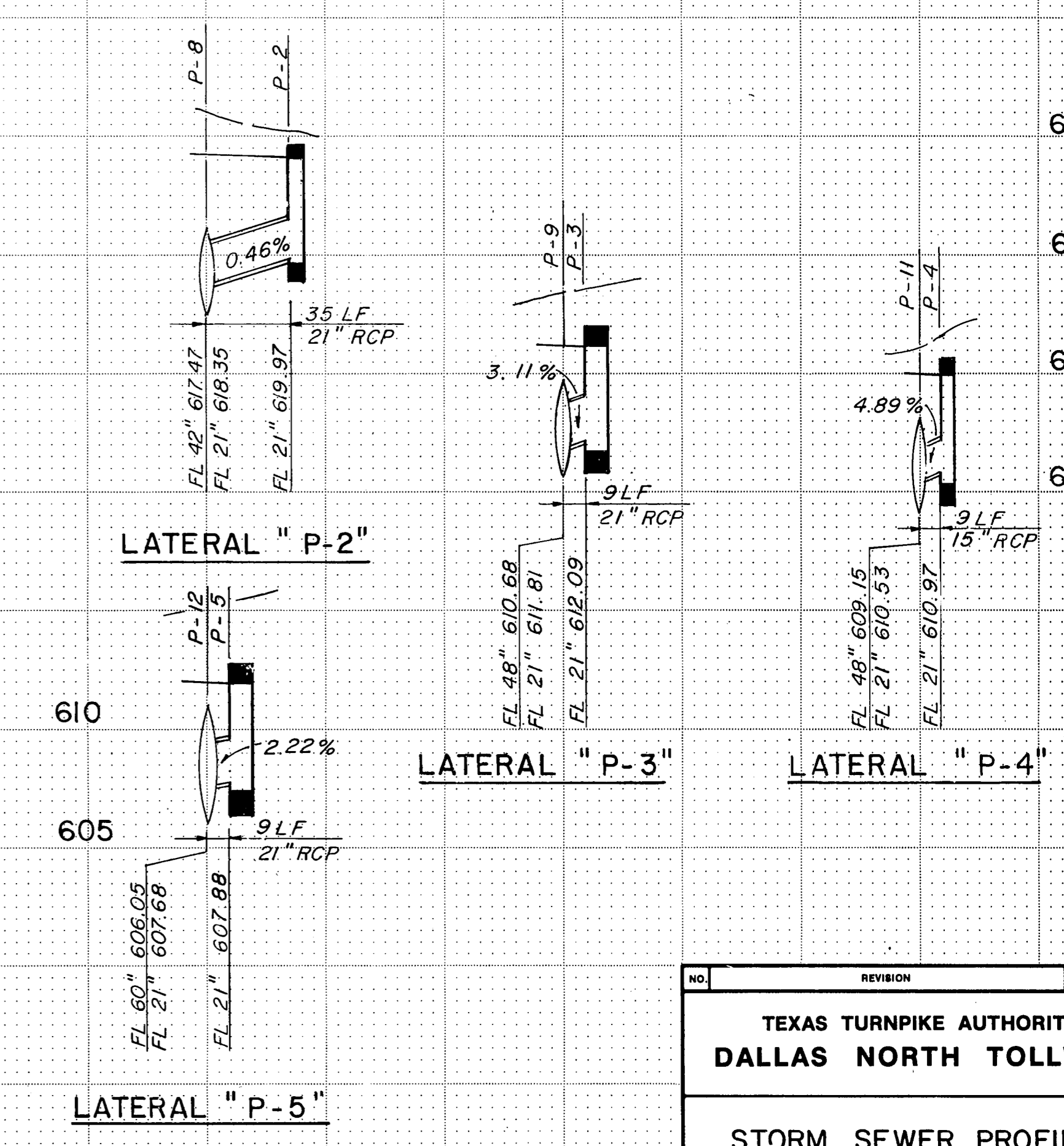
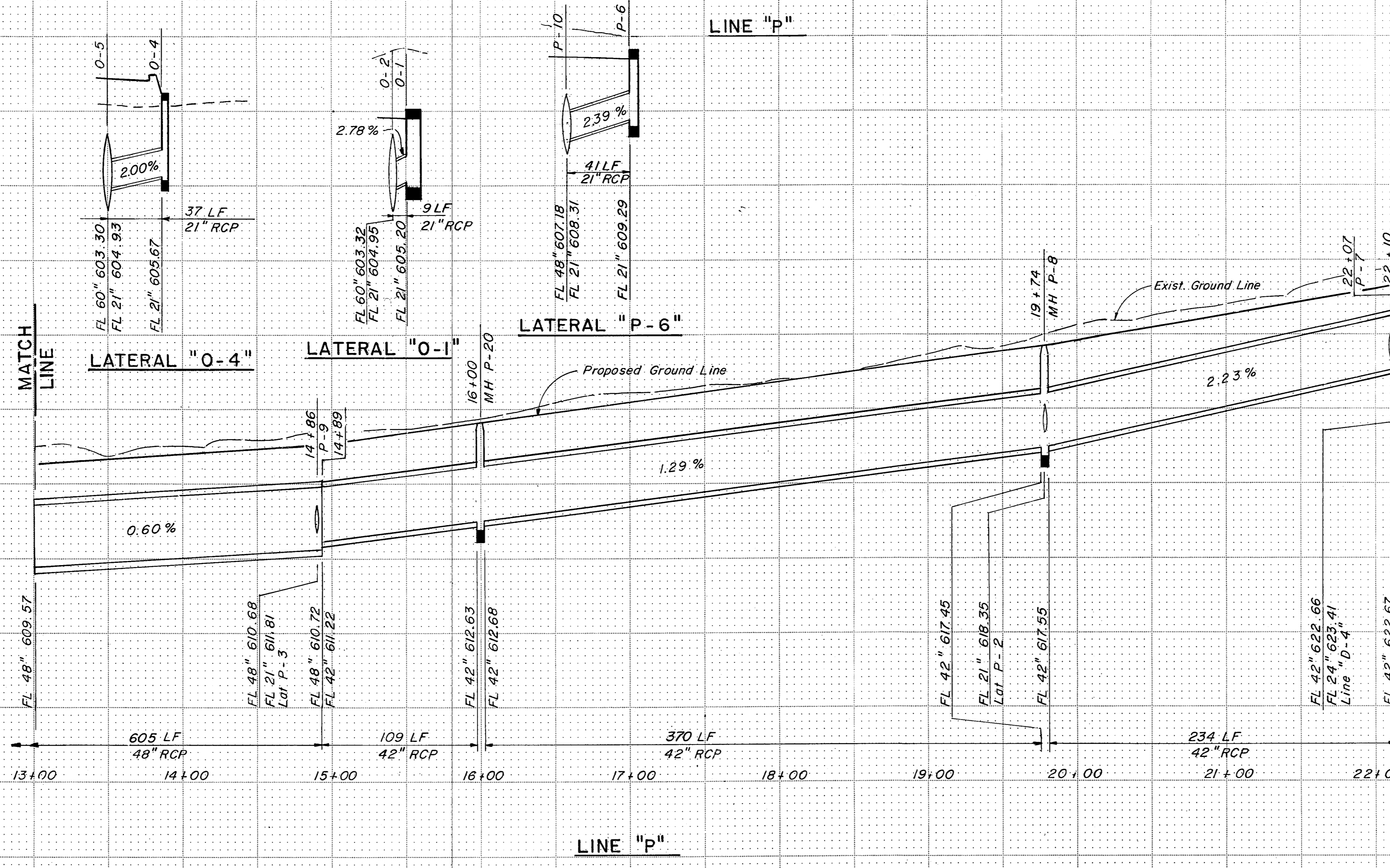
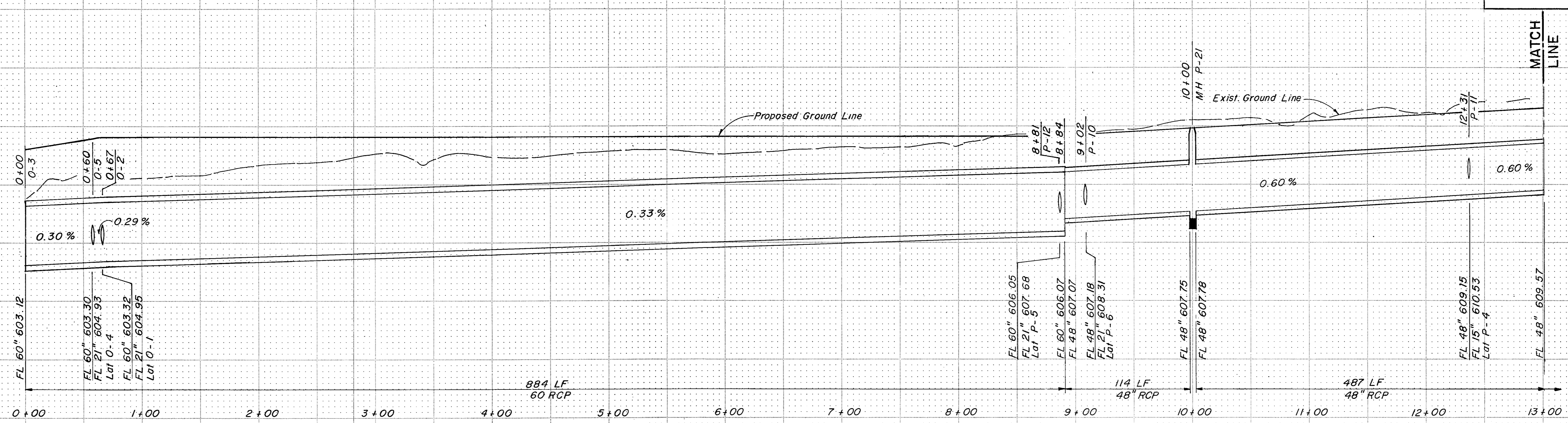
STORM SEWER LINES "C", "C-1"

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE	DATE	TRACED	DATE
DEL	4/84	MAV	4/84
CHECKED	DATE	SCALE	"=50'H 1"=5'V
REW	4/84		
CONTRACT NO. DNT-115 SHEET R55 OF R85			



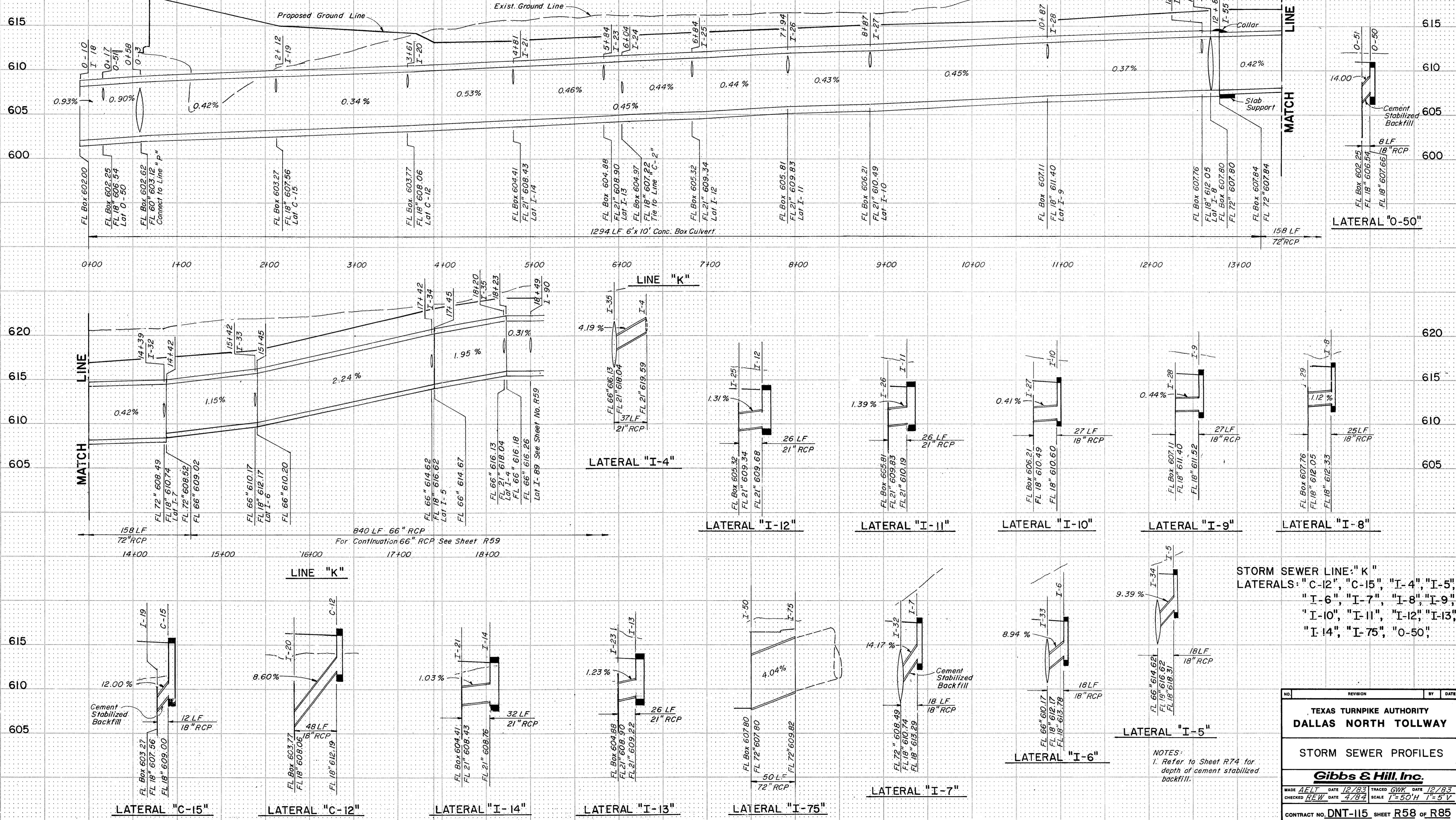
STORM SEWER LINE : "C-3", "H-1", "H-2"
 LATERAL : "H-2", "H-3", "H-4", "H-5",
 "H-6", "H-7", "H-8"
 "C-30", "O-9", "O-11"

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE	AELT DATE 4/84	TRACED	ELB DATE 4/84
CHECKED	REW DATE 4/84	SCALE	1"=50'H 1"=5'V
CONTRACT NO. DNT-115 SHEET R56 OF R85			



NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE	AELT	DATE	4/784
TRACED	MAV	DATE	4/784
CHECKED	REW	DATE	4/784
SCALE	1"=50'H 1"=5'V		
CONTRACT NO. DNT-115 SHEET R57 OF R85			

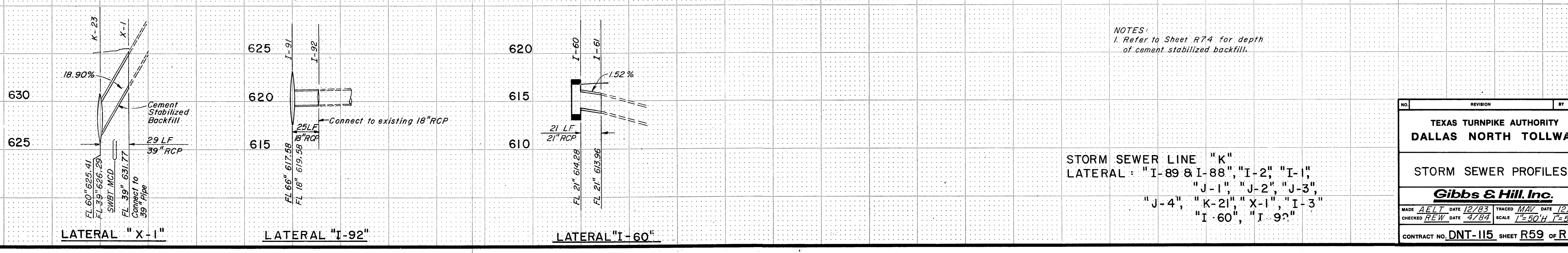
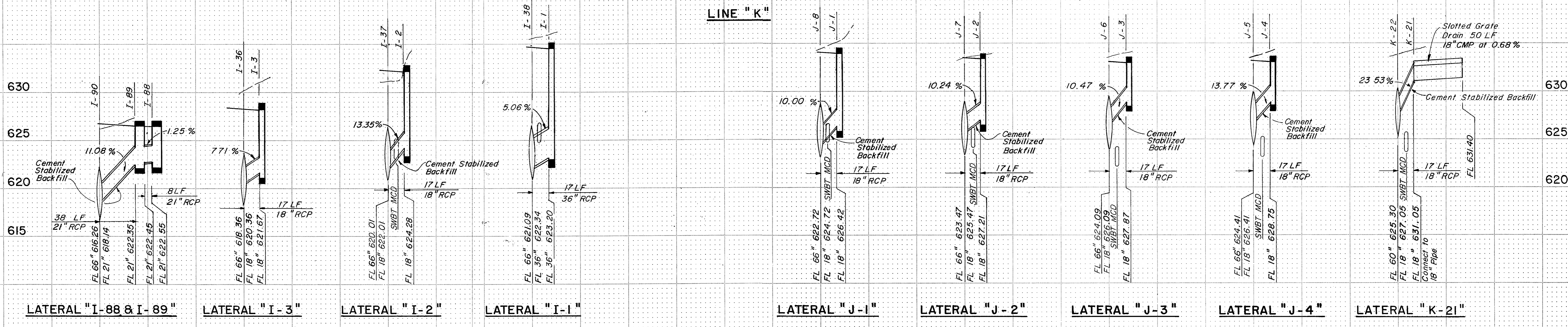
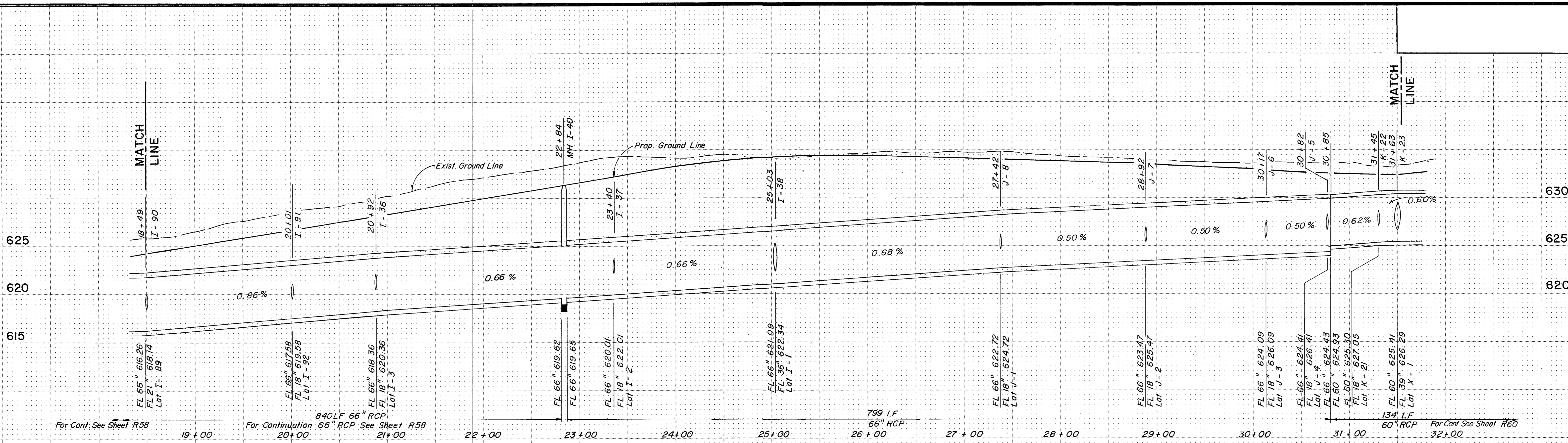
STORM SEWER LINE : "P"
 LATERAL : "O-4", "P-2", "P-3", "P-4", "P-5"
 "O-1", "P-6"



STORM SEWER LINE "K"
 LATERALS: "C-12", "C-15", "I-4", "I-5",
 "I-6", "I-7", "I-8", "I-9",
 "I-10", "I-11", "I-12", "I-13",
 "I-14", "I-75", "O-50",

NOTES:
 1. Refer to Sheet R74 for
 depth of cement stabilized
 backfill.

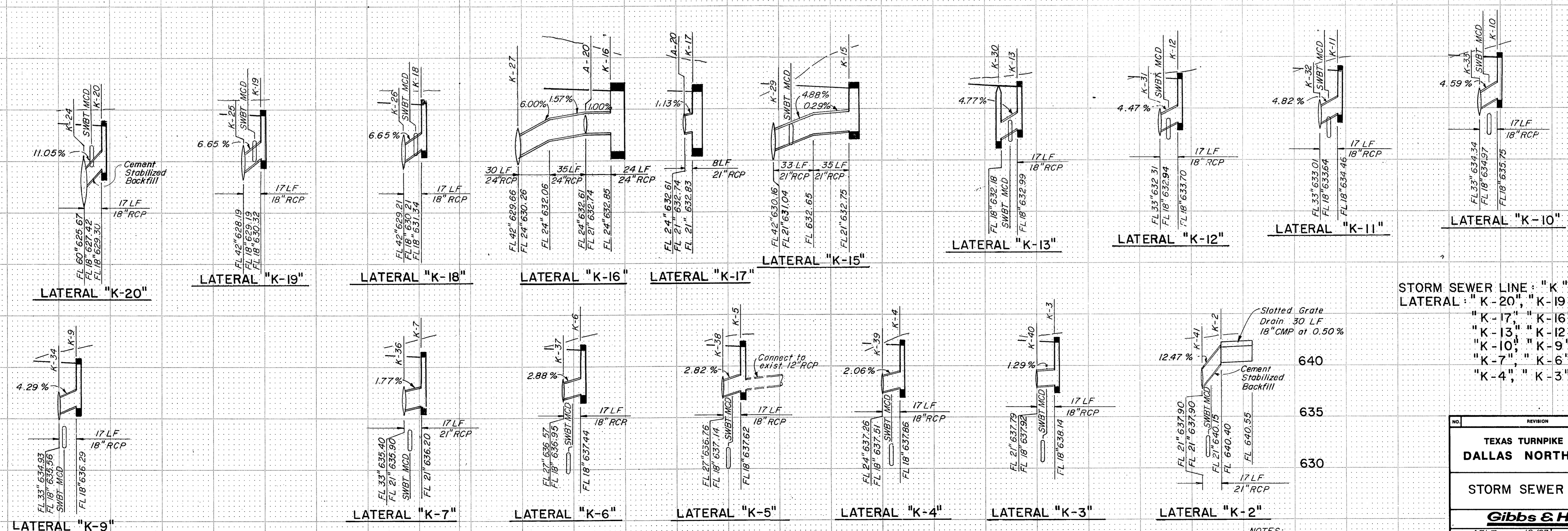
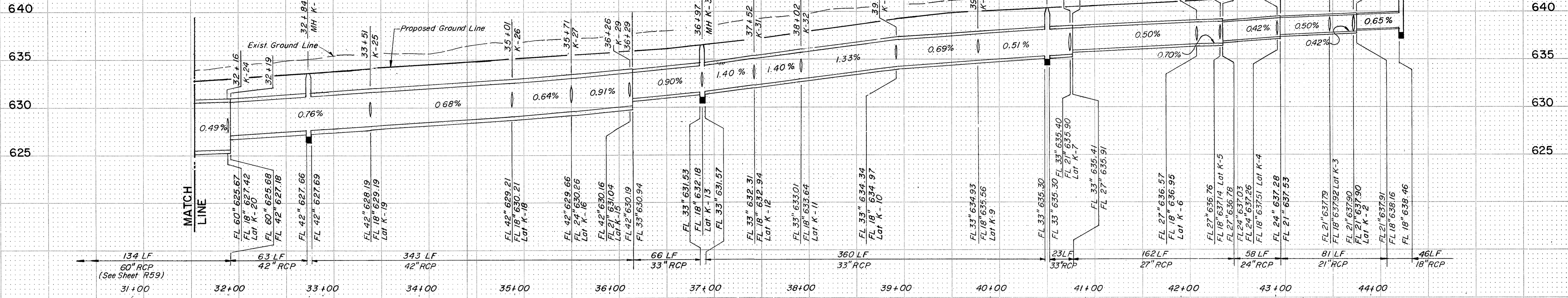
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE	AE/TL	DATE	12/83
CHECKED	REW	DATE	4/84
TRACED	GWK	DATE	12/83
SCALE	1"=50'H 1"=5'V		
CONTRACT NO. DNT-115 SHEET R58 OF R85			



NOTES:
 1. Refer to Sheet R74 for depth of cement stabilized backfill.

STORM SEWER LINE "K"
 LATERAL: "I-89 & I-88", "I-2", "I-1",
 "J-1", "J-2", "J-3",
 "J-4", "K-21", "X-1", "I-3",
 "I-60", "I-90"

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE	AELT DATE 12/83	TRACED	MAV DATE 12/83
CHECKED	REW DATE 4/84	SCALE	1"=50'H 1"=5'V
CONTRACT NO. DNT-115 SHEET R59 OF R85			

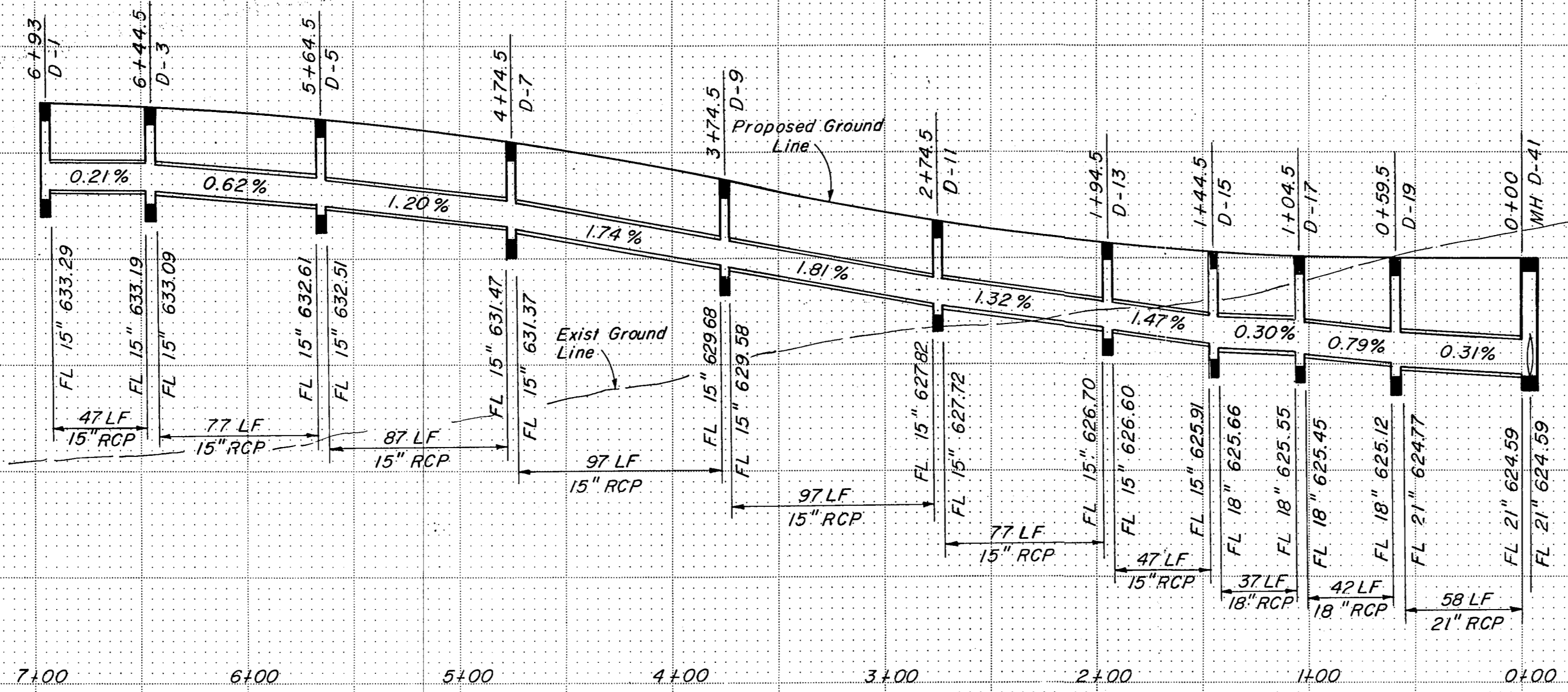


STORM SEWER LINE "K"
LATERAL: "K-20", "K-19", "K-18",
"K-17", "K-16", "K-15",
"K-13", "K-12", "K-11",
"K-10", "K-9", "K-8",
"K-7", "K-6", "K-5",
"K-4", "K-3", "K-2"

NOTES:
1. Refer to Sheet R74 for depth of cement stabilized backfill.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE AELT	DATE 12/83	TRACED GWK	DATE 12/83
CHECKED REW	DATE 4/84	SCALE 1"=50'H	1"=5'V
CONTRACT NO. DNT-115 SHEET R60 OF R85			

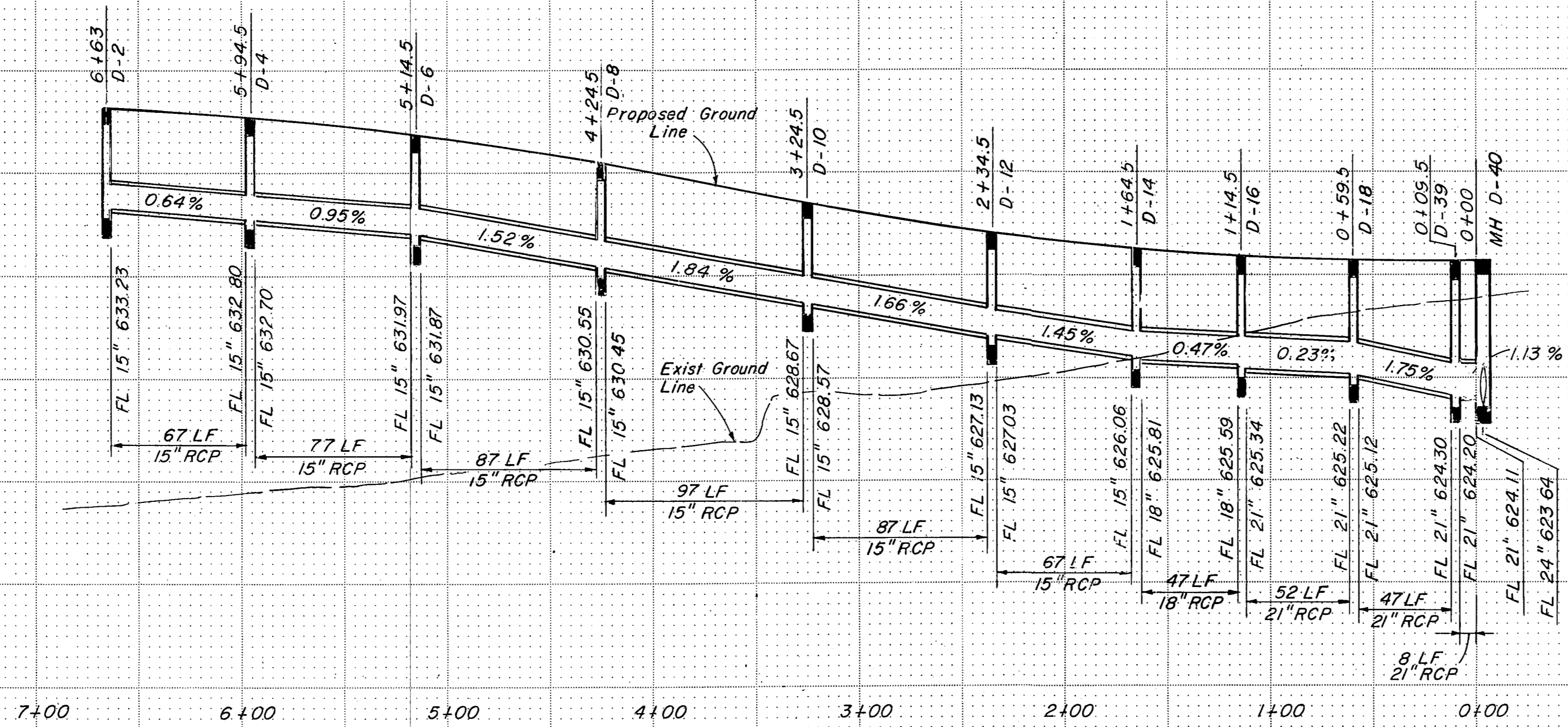
640
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LINE "D-1"

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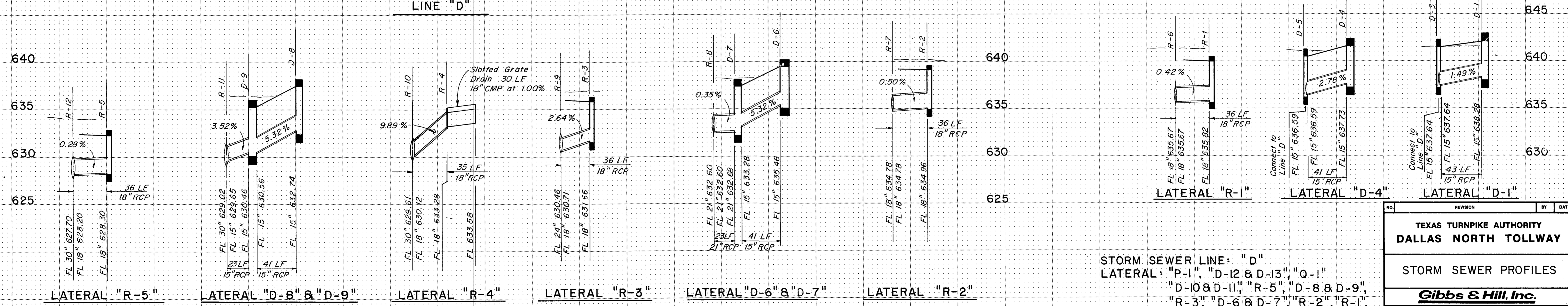
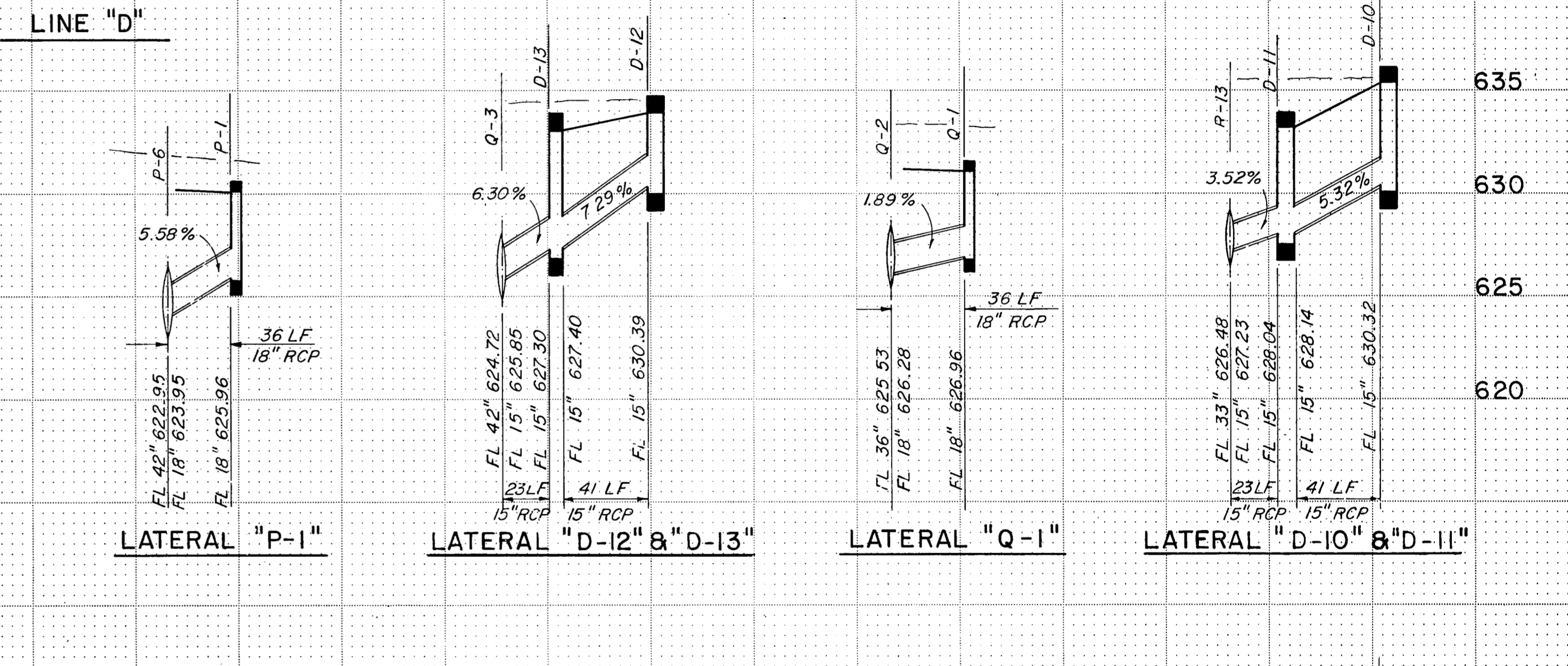
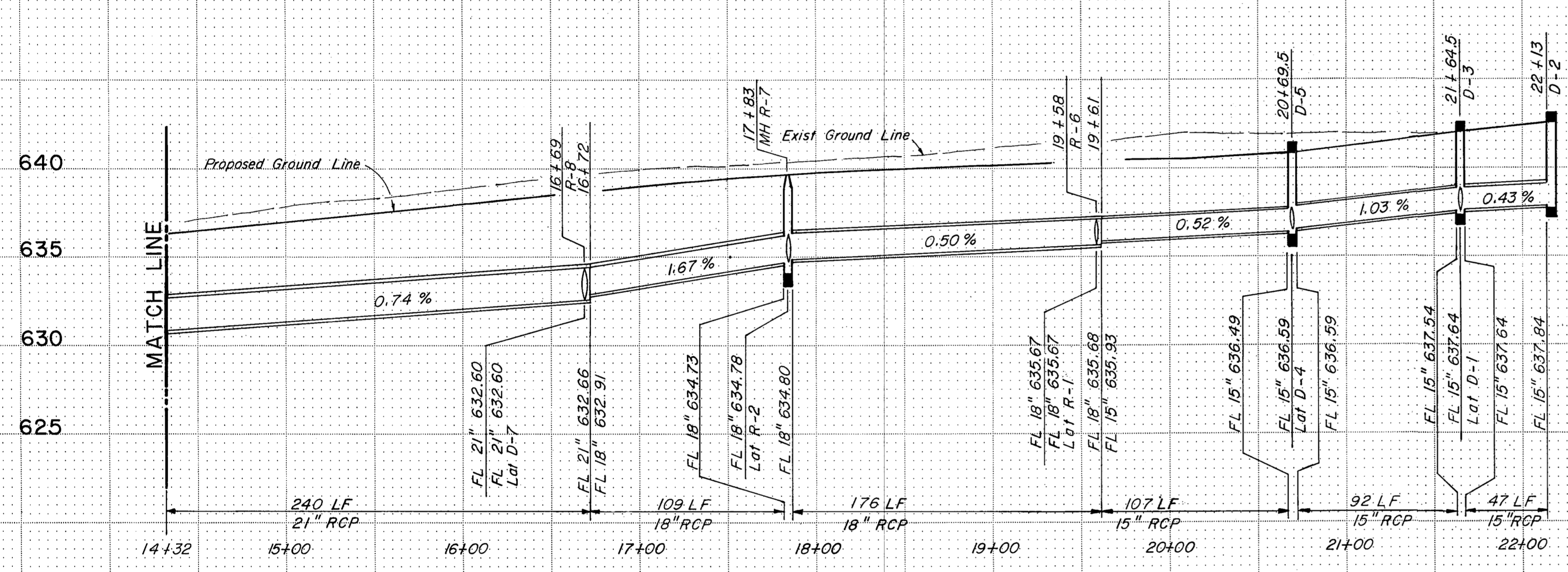
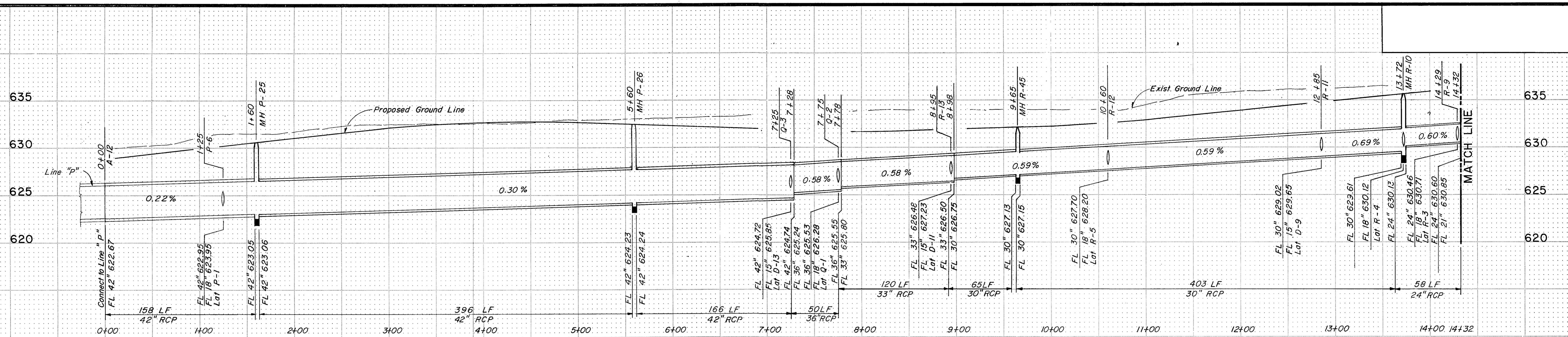


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LINE "D-2"

STORM SEWER LINE: "D-1", "D-2"

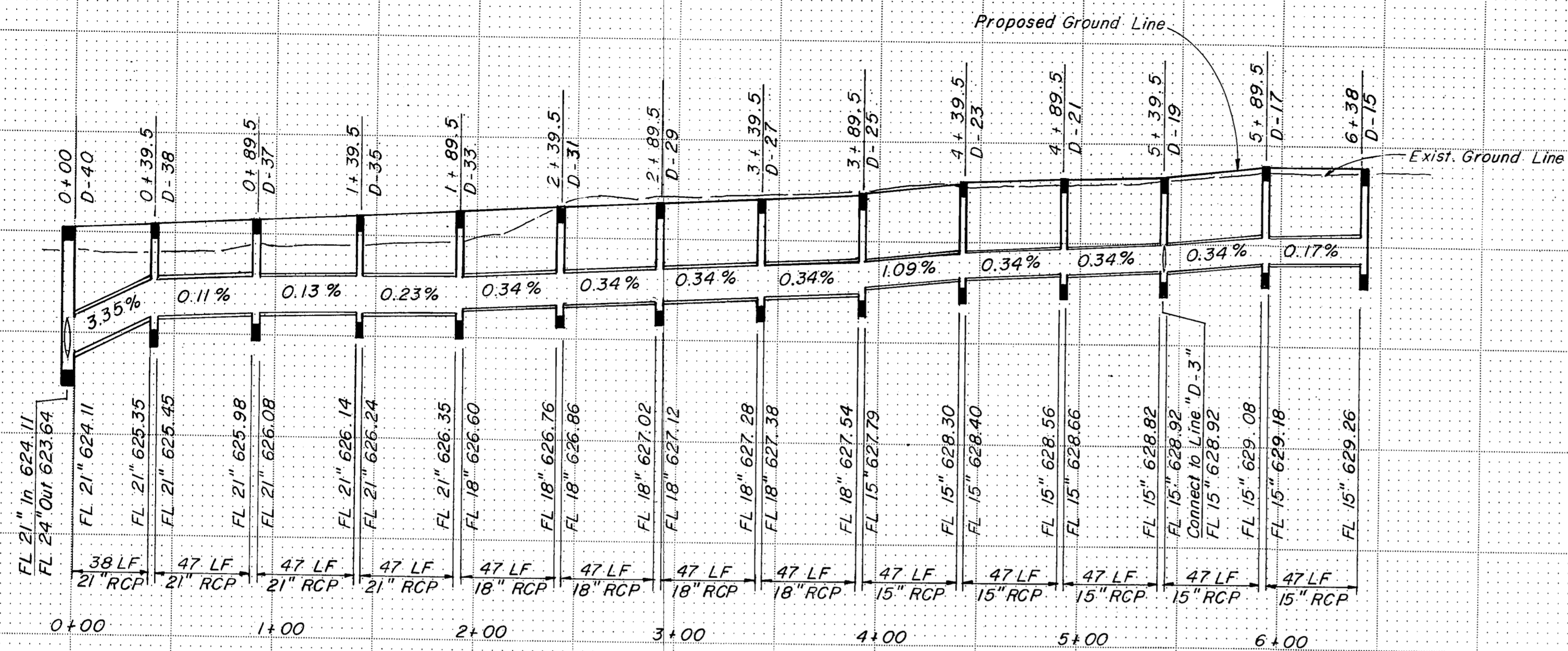
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE	AEIT	DATE	4/84
CHECKED	REW	DATE	4/84
TRACED	ELB	DATE	4/84
SCALE	1"=50'H 1"=5'V		
CONTRACT NO. DNT-115 SHEET R61 OF R85			



STORM SEWER LINE: "D"
 LATERAL: "P-1", "D-12 & D-13", "Q-1",
 "D-10 & D-11", "R-5", "D-8 & D-9",
 "R-3", "D-6 & D-7", "R-2", "R-1",
 "D-4", "D-1", "R-4"

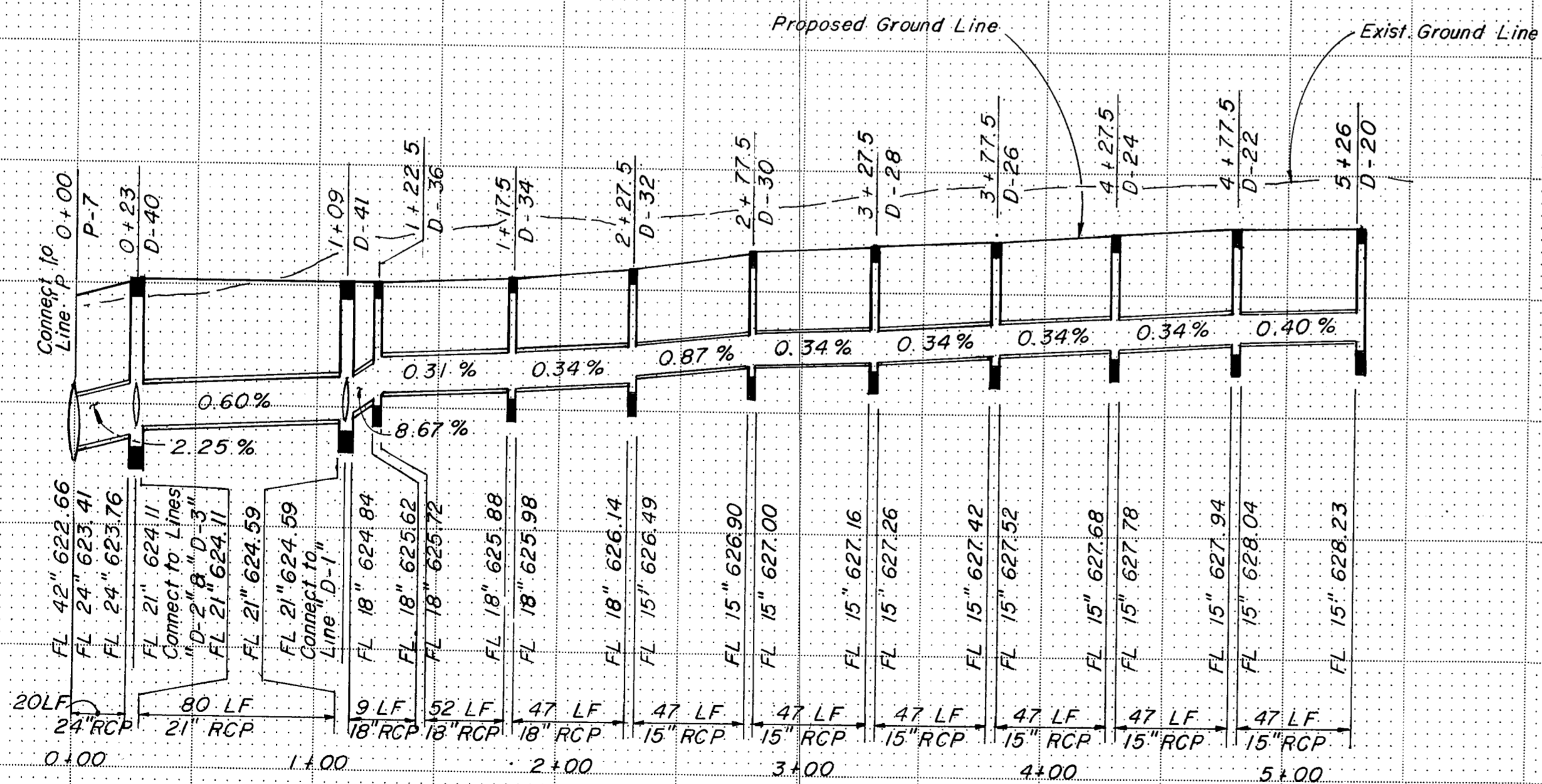
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE	ALB	DATE	4/84
CHECKED	REW	DATE	4/84
		SCALE	1"=50'H T=5'V
CONTRACT NO. DNT-115		SHEET R62 OF R85	

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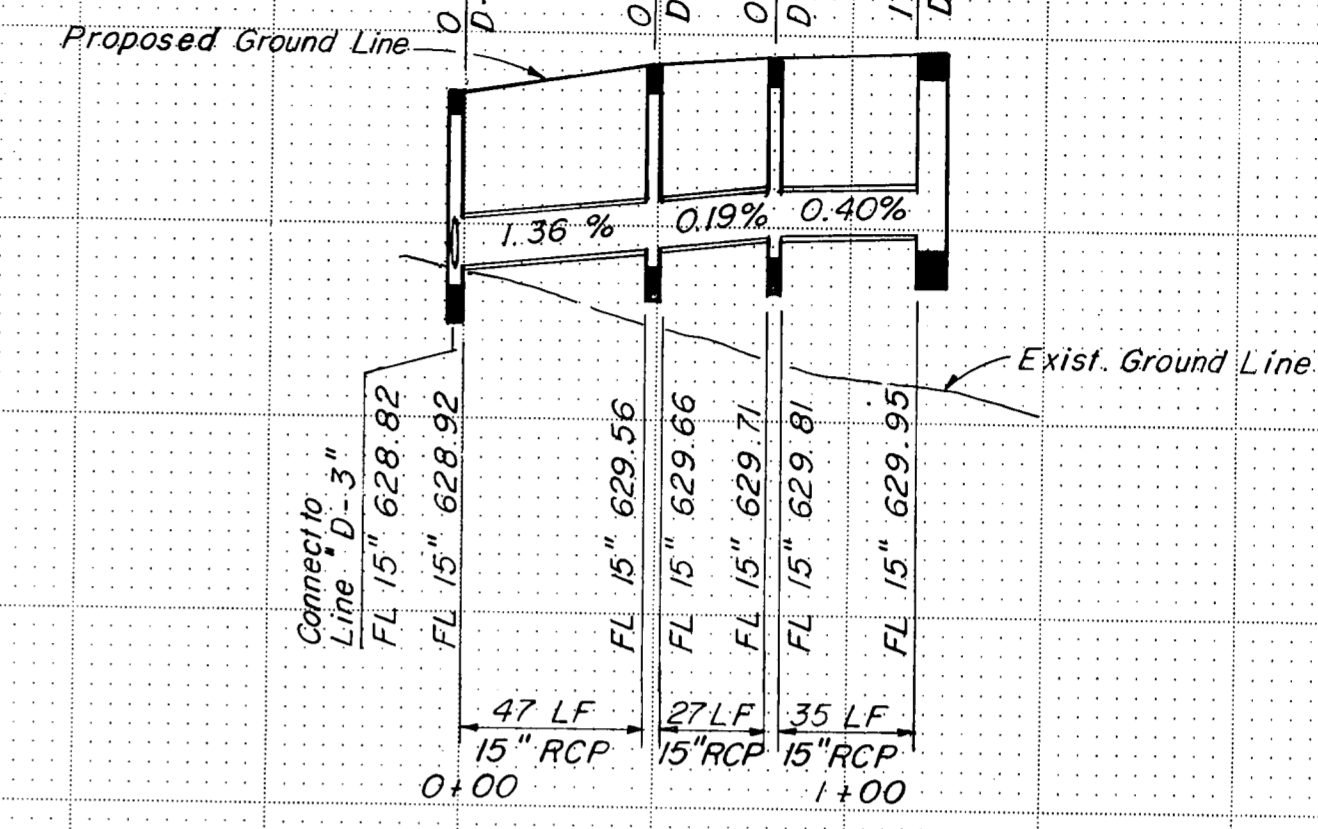


LINE "D-3"

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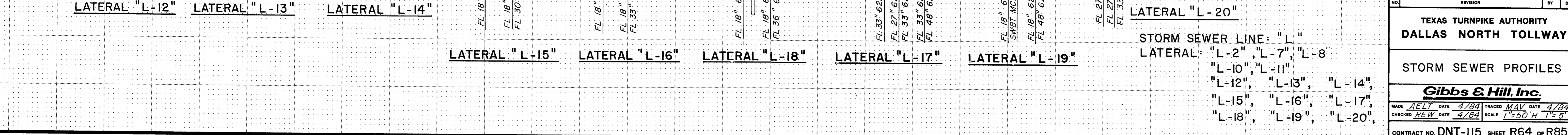
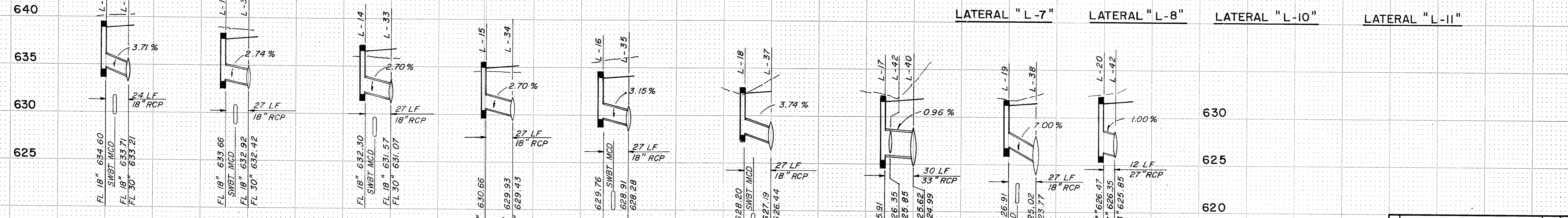
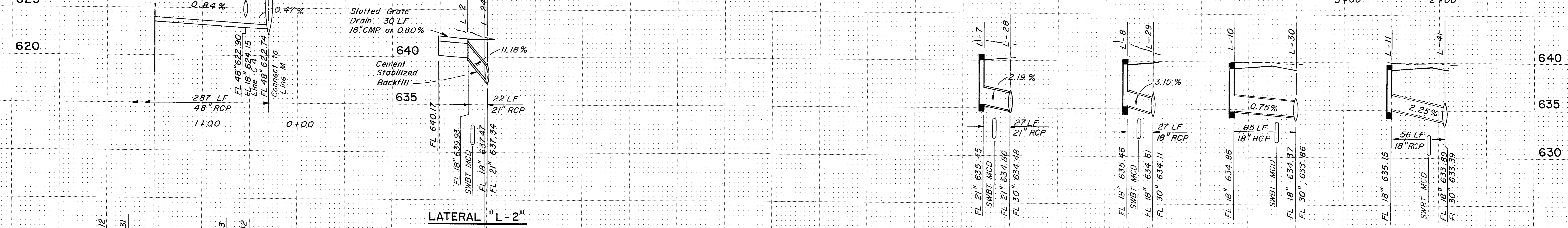
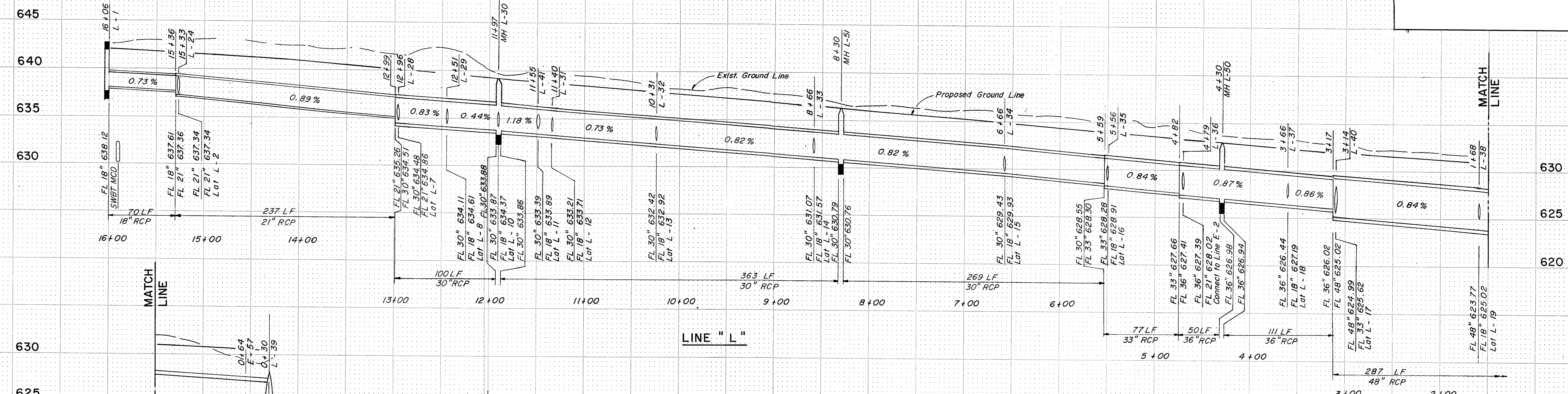
LINE "D-4"



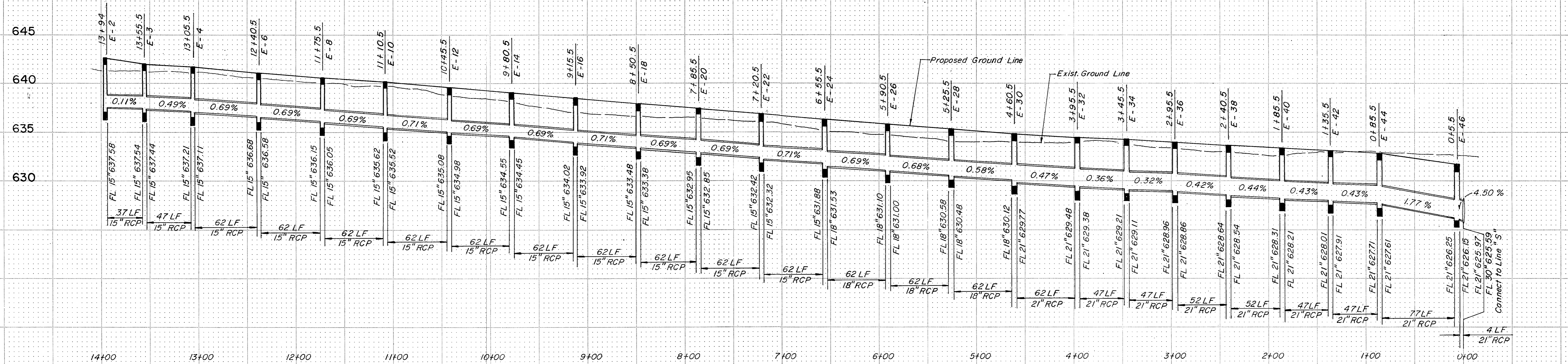
LATERAL "D-3"

STORM SEWER LINE: "D-3", "D-4"
LATERAL: "D-3"

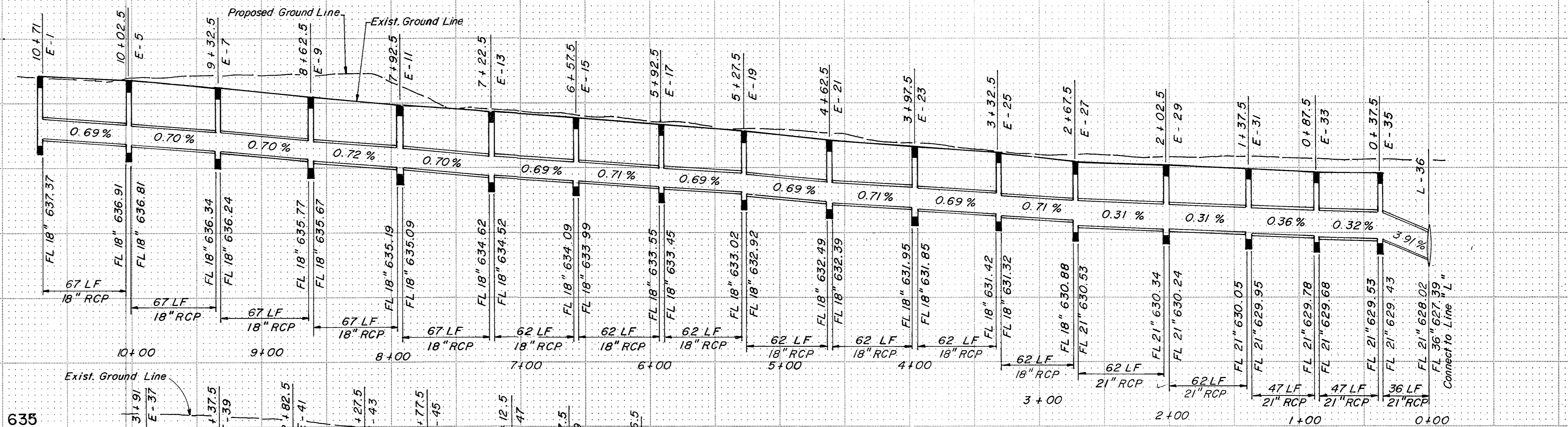
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE AELT	DATE 4/84	TRACED MAV	DATE 4/84
CHECKED REW	DATE 4/84	SCALE 1"=50'H	T"=5'V
CONTRACT NO. DNT-115 SHEET R63 OF R85			



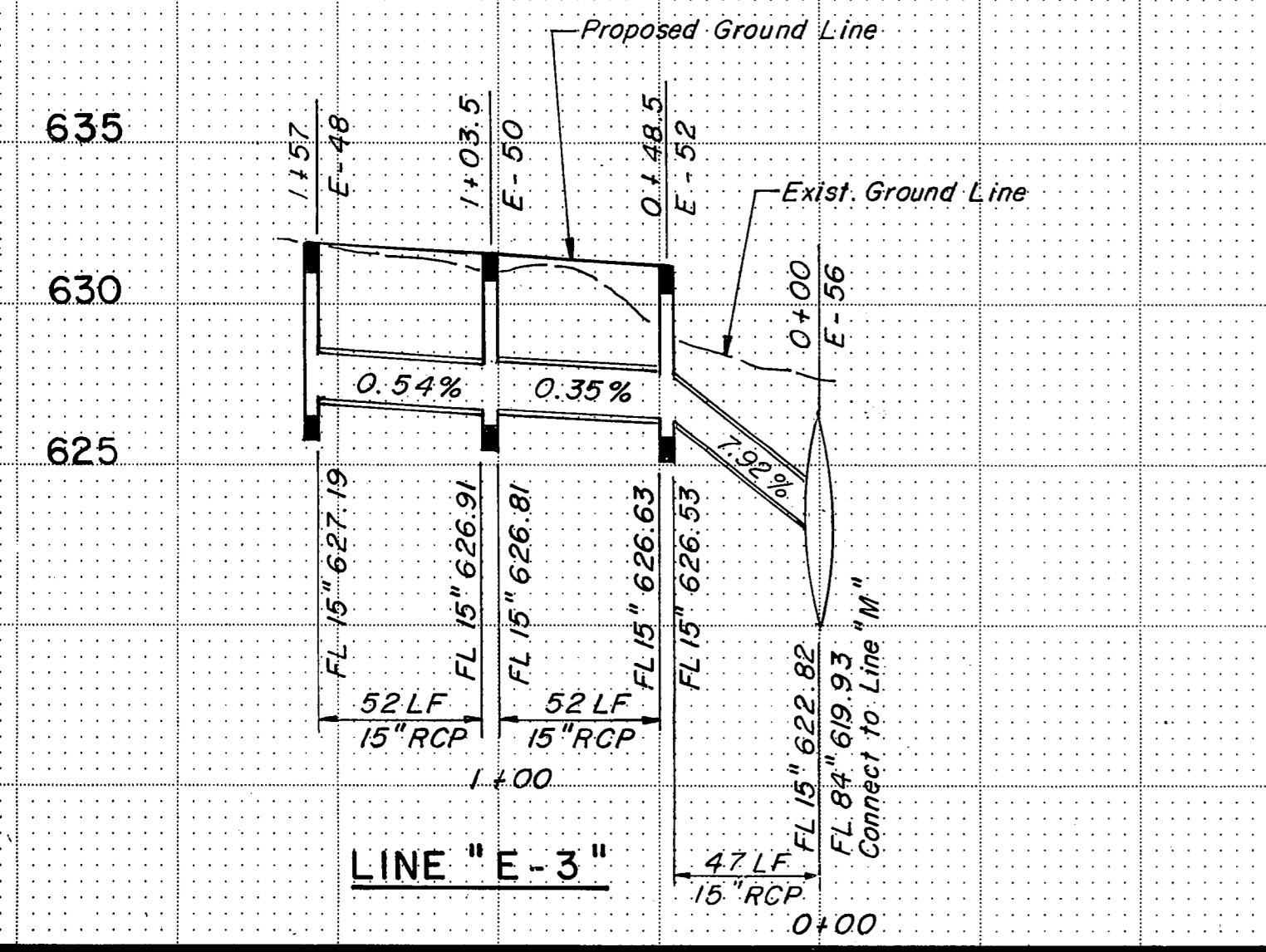
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE	AELT	DATE	4/84
CHECKED	REW	DATE	4/84
TRACED		MAV	DATE 4/84
SCALE		1"=50' H 1"=5' V	
CONTRACT NO. DNT-115 SHEET R64 of R85			



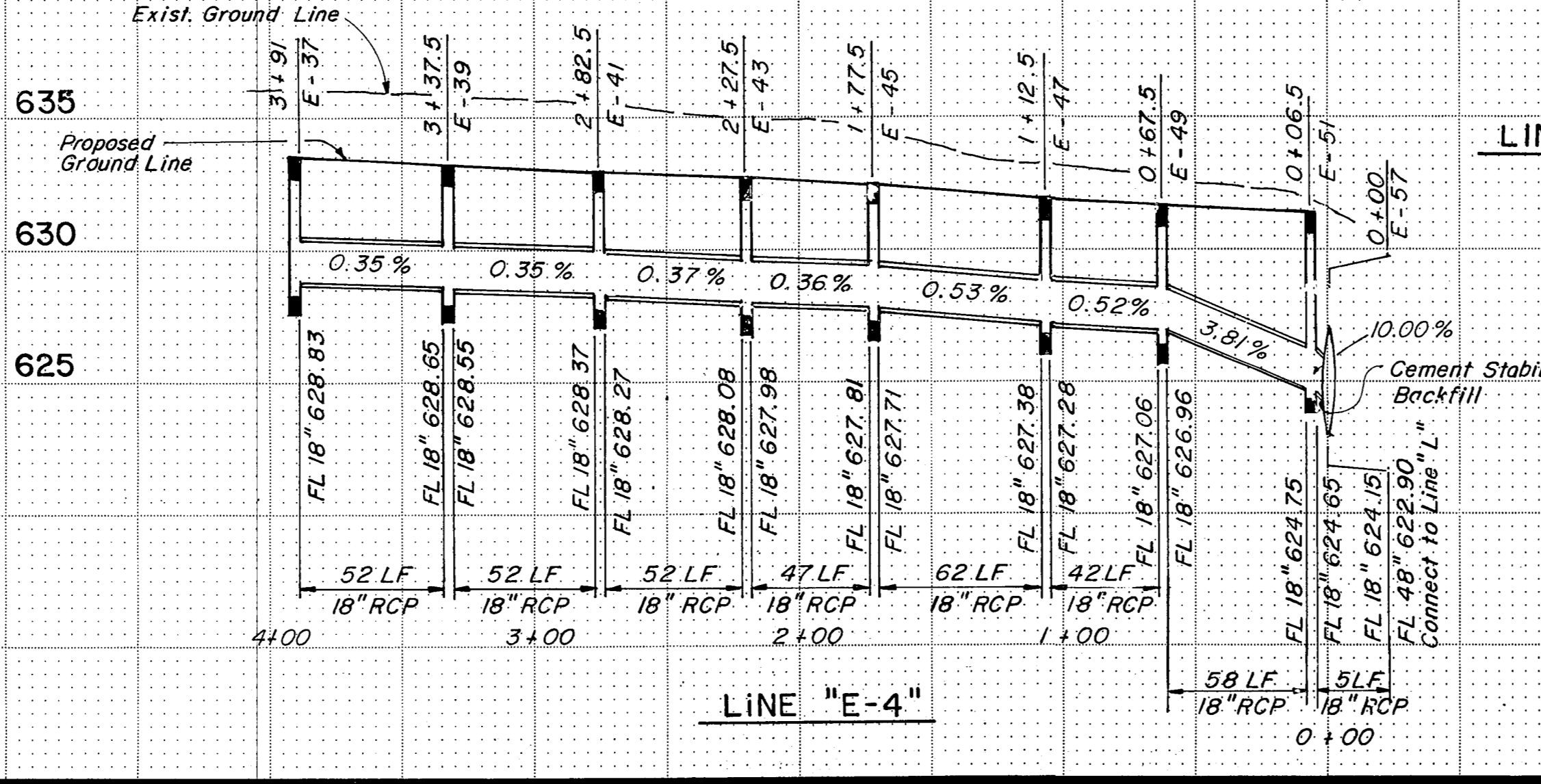
LINE "E"



LINE "E-2"



LINE "E-3"

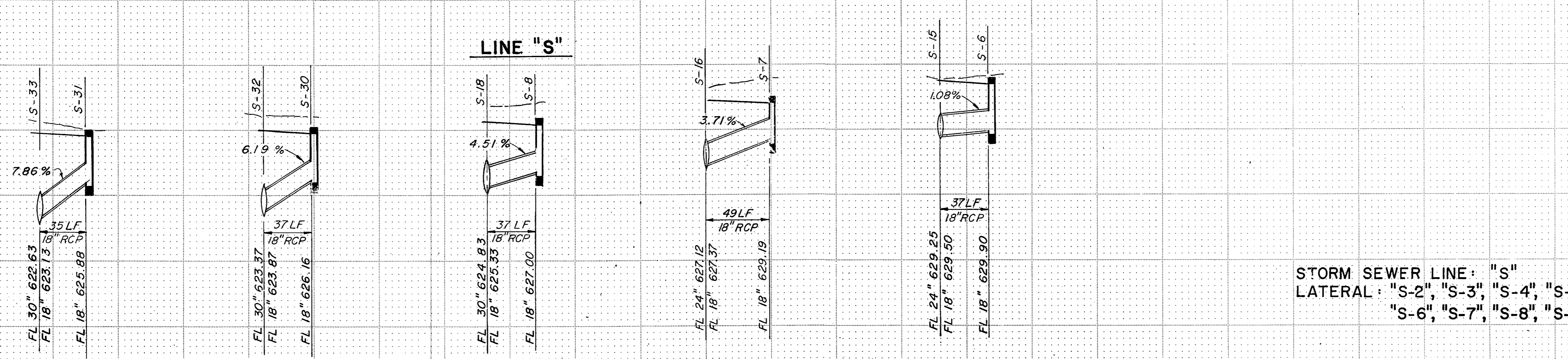
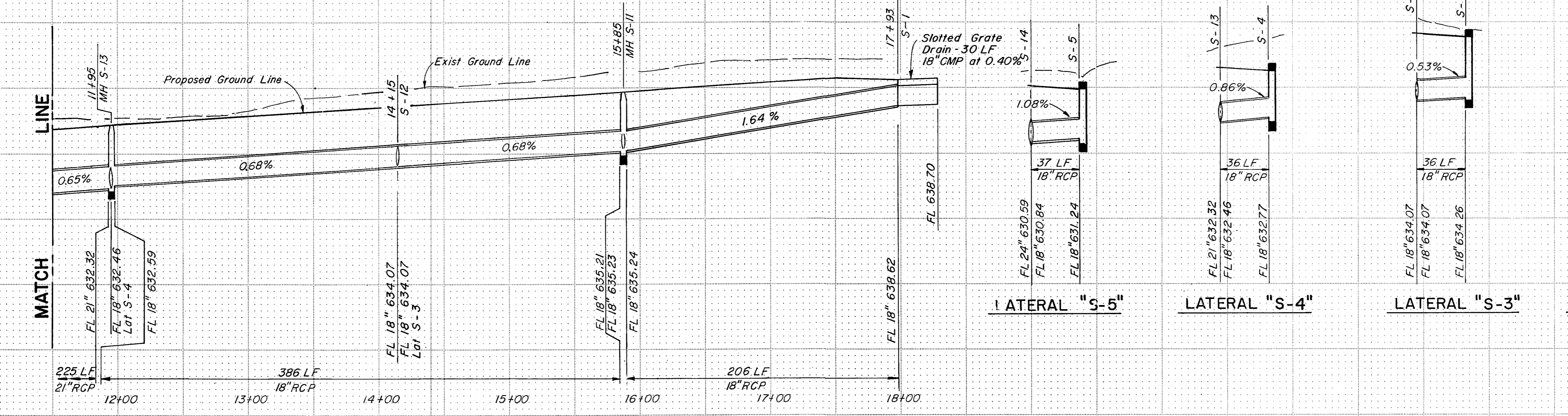
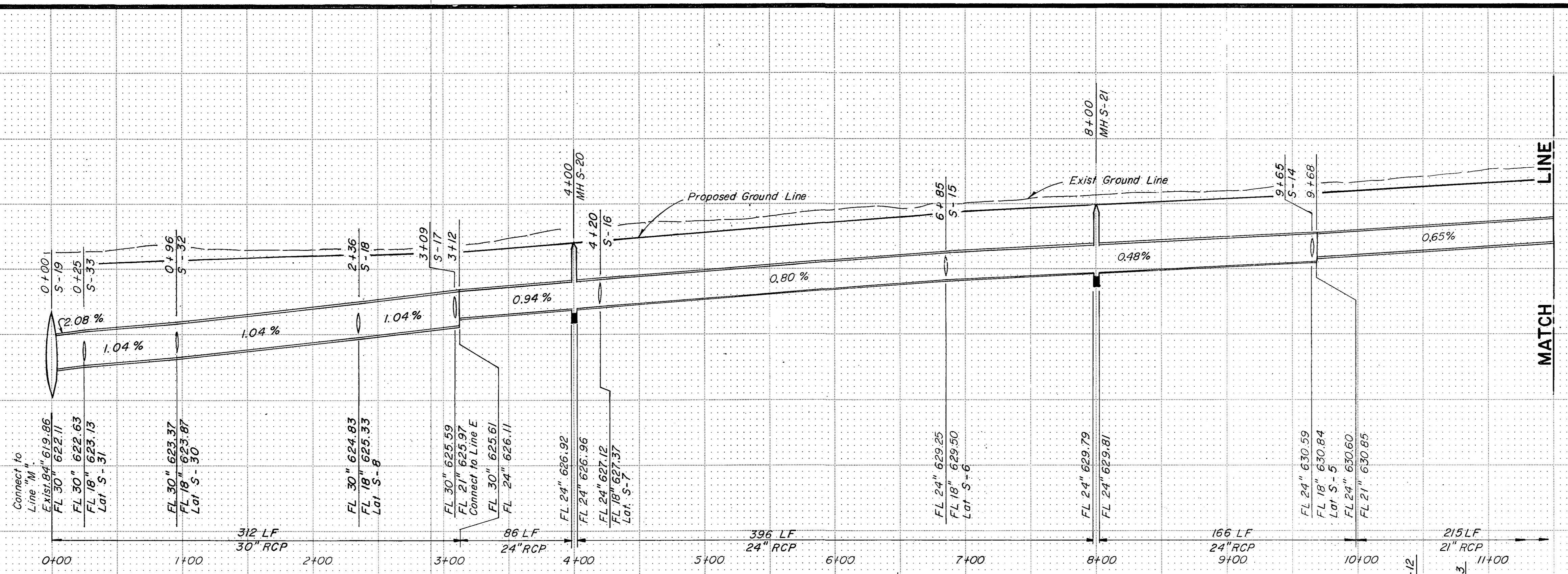


LINE "E-4"

NOTES:
1. Refer to Sheet R74 for depth of cement stabilized backfill.

STORM SEWER LINES: "E", "E-2", "E-3", "E-4"

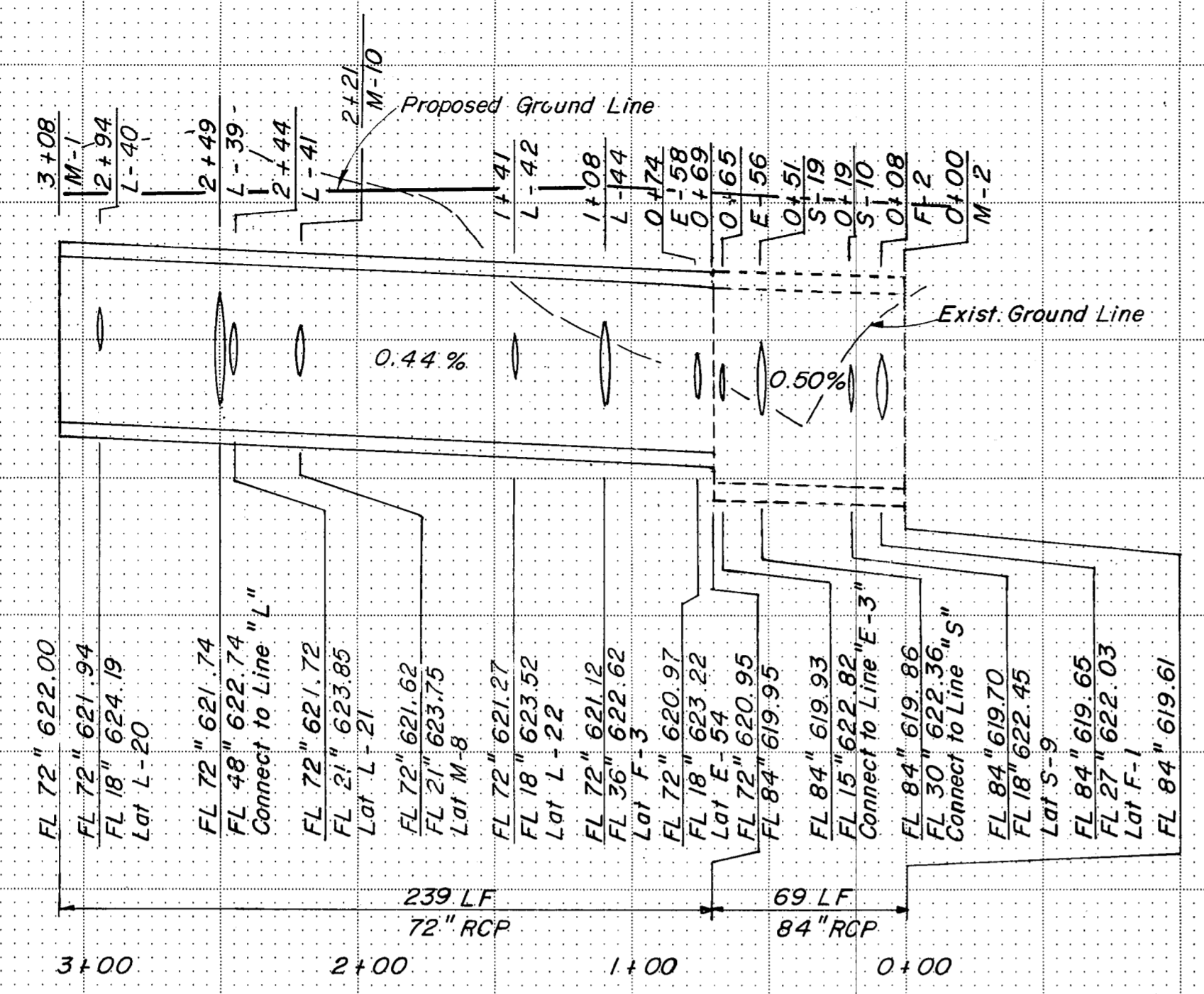
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE	AE/TL	DATE	12/83
CHECKED	REW	DATE	4/84
TRACED	GWK	DATE	12/83
SCALE	1"=50' H 1"=5' V		
CONTRACT NO. DNT-115 SHEET R65 OF R85			



STORM SEWER LINE: "S"
 LATERAL: "S-2", "S-3", "S-4", "S-5",
 "S-6", "S-7", "S-8", "S-30", "S-31"

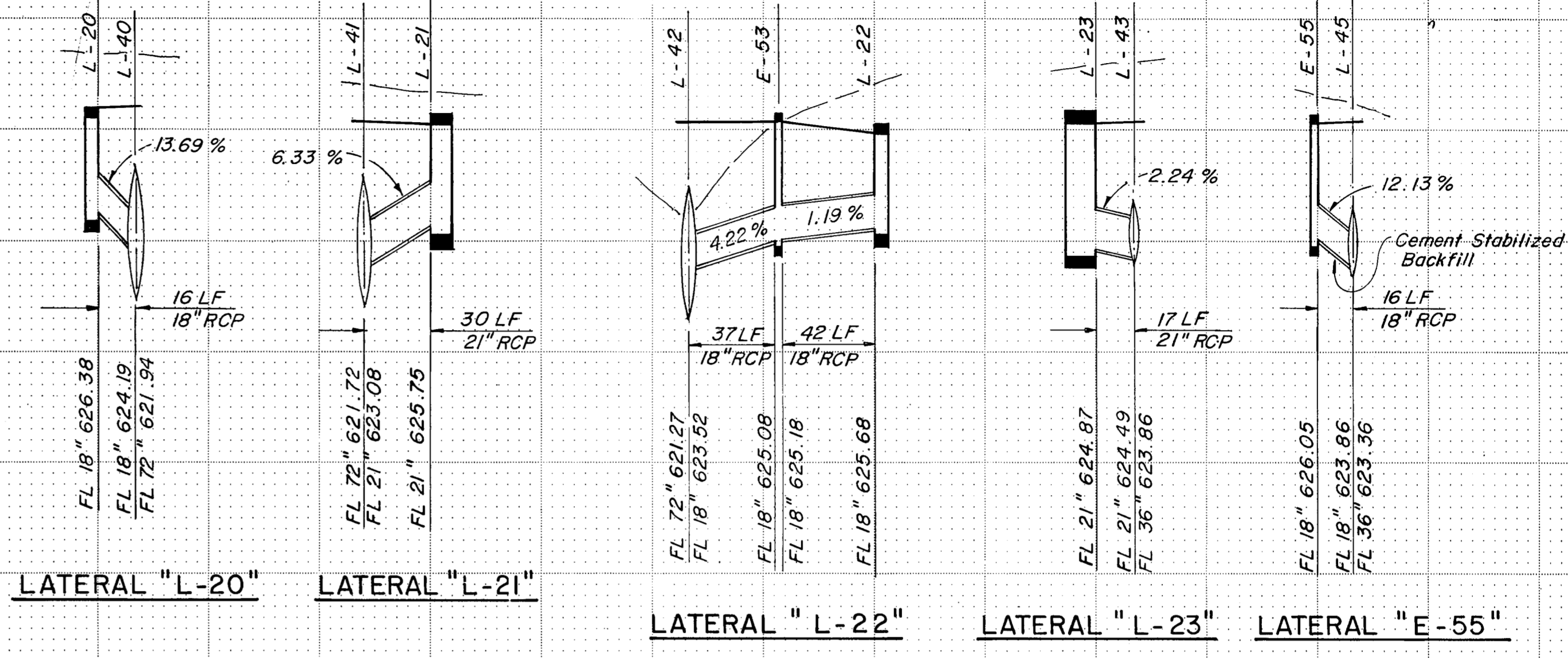
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE AELT	DATE 12/83	TRACED GWK	DATE 12/83
CHECKED REW	DATE 4/84	SCALE 1"=50'H	1"=5'V
CONTRACT NO. DNT-115 SHEET R66 OF R85			

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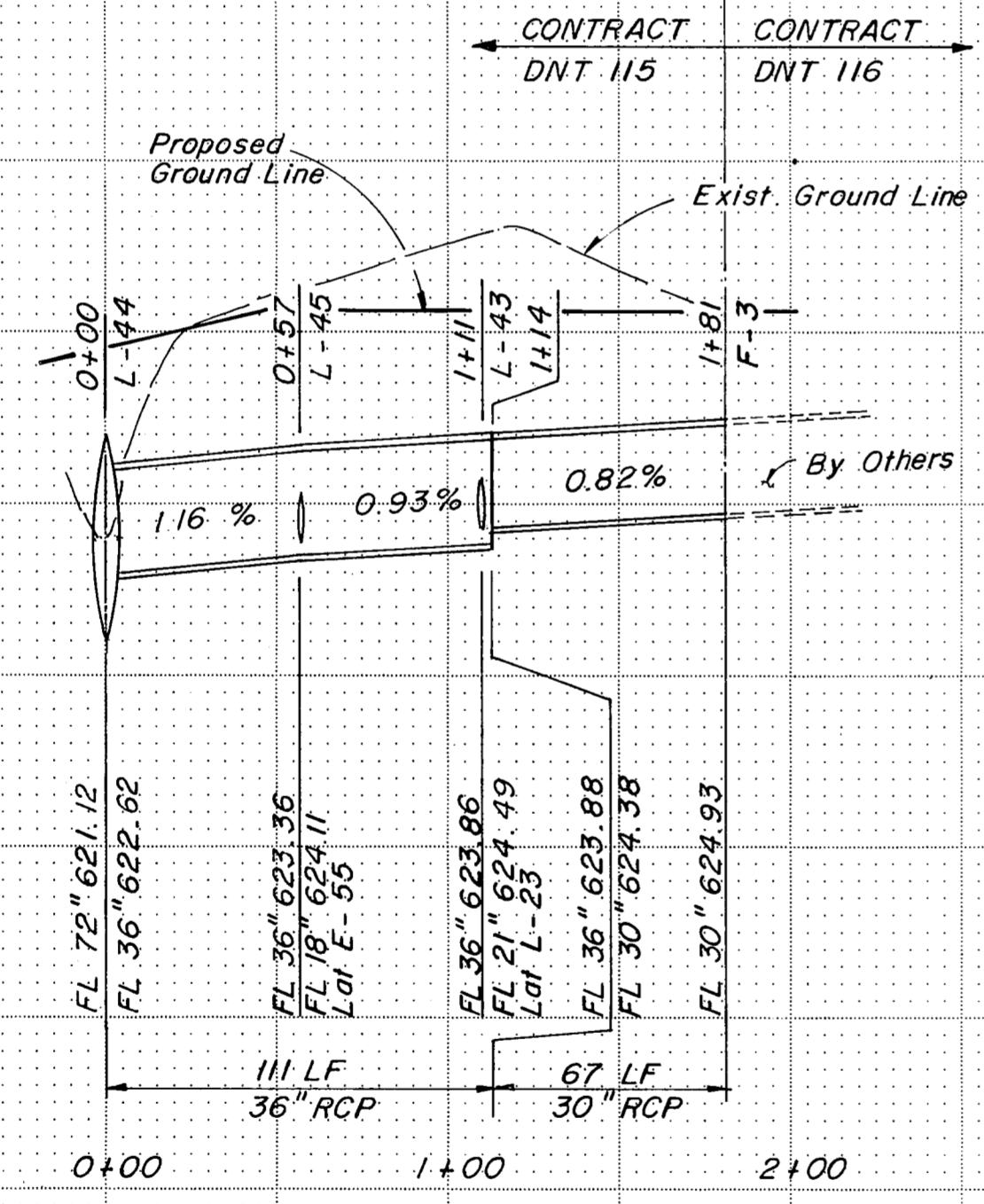


LINE "M"

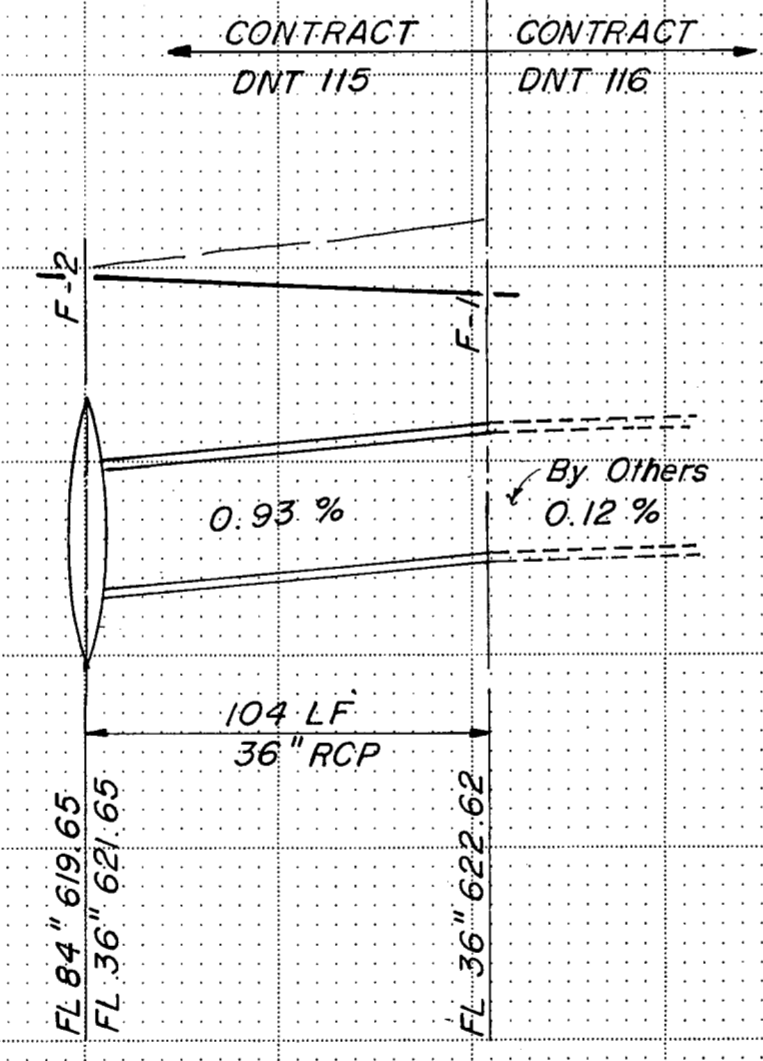
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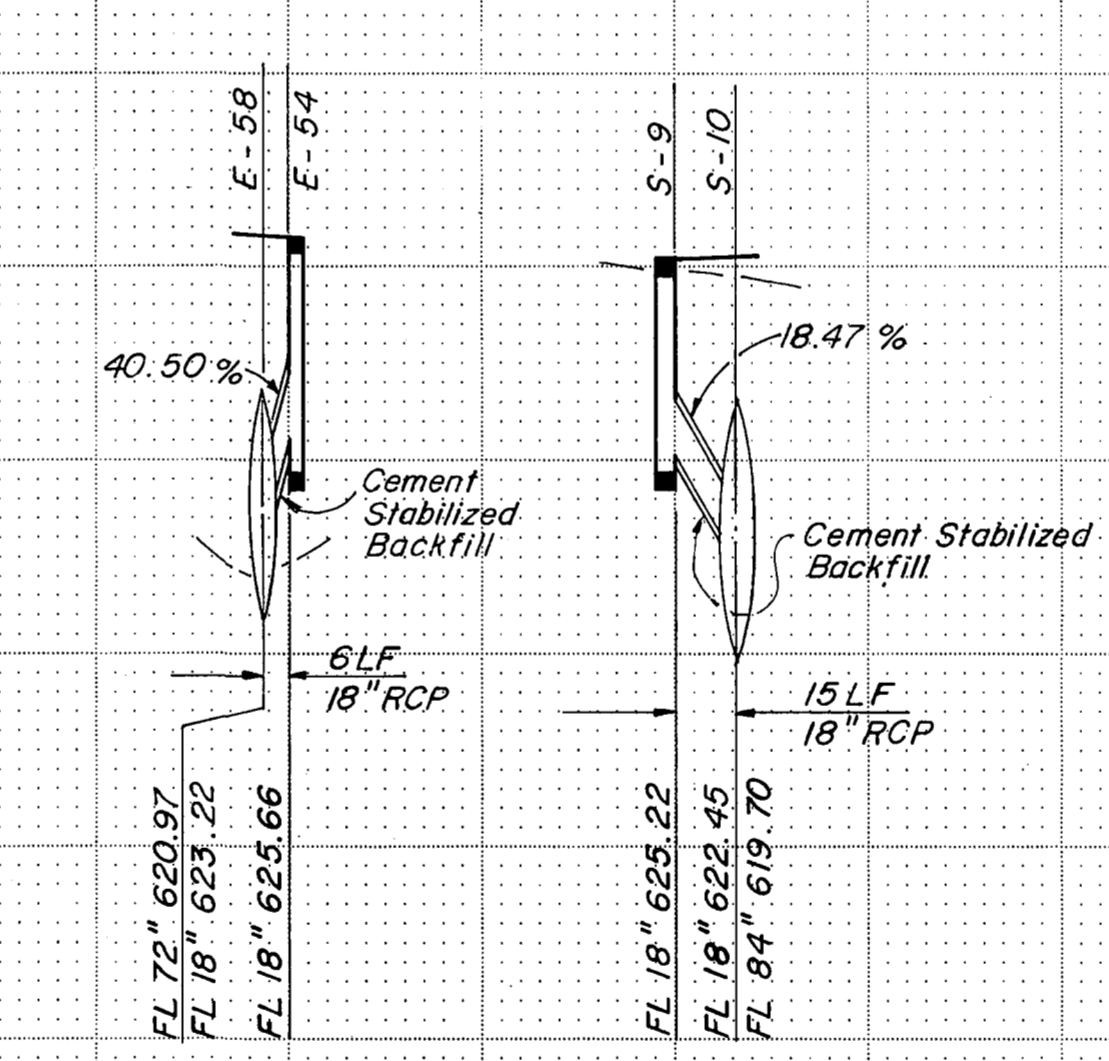
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LATERAL "F-3"

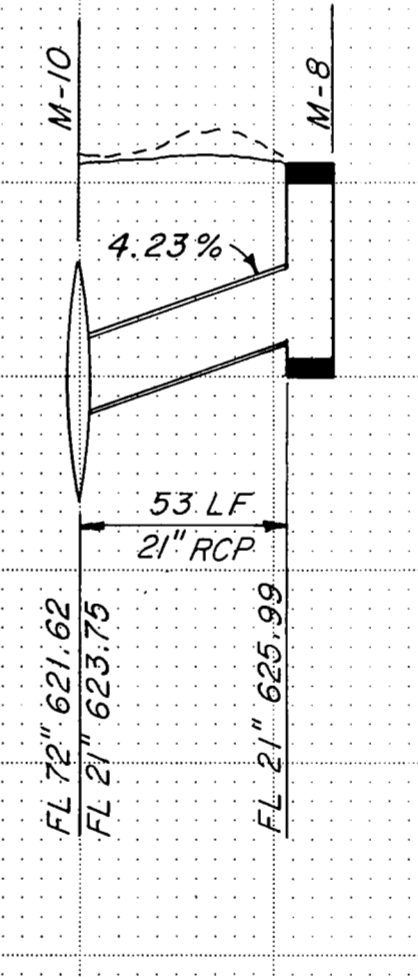


LATERAL "F-1"



LATERAL "E-54"

LATERAL "S-9"

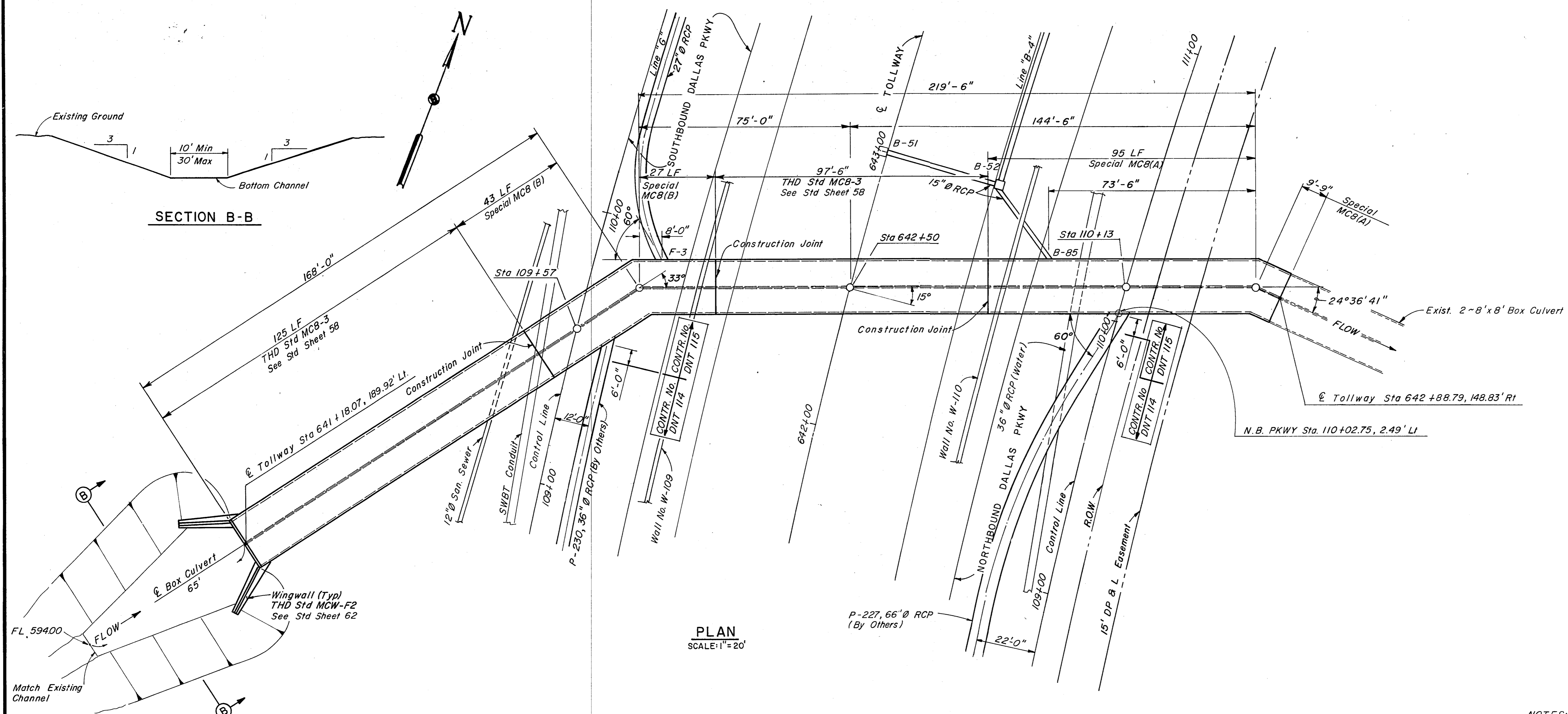


LATERAL "M-8"

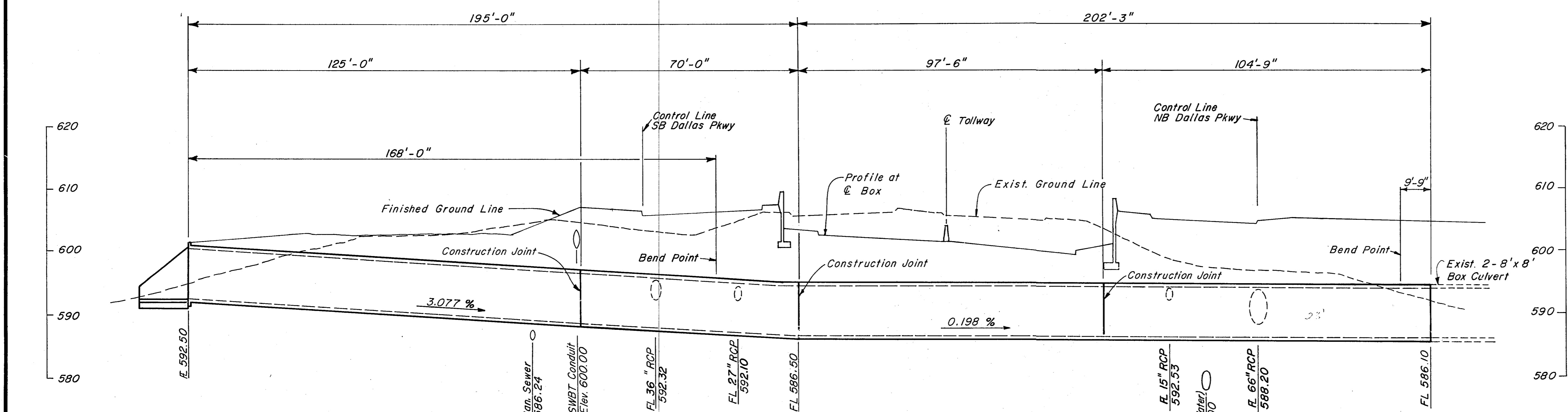
NOTES:
1. Refer to Sheet R74 for depth of cement stabilized backfill.

STORM SEWER LINE: "M"
LATERAL: "L-20", "L-21", "L-22", "L-23",
"E-55", "F-3", "F-1", "E-54",
"S-9", "M-8"

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER PROFILES			
Gibbs & Hill, Inc.			
MADE	AELT	DATE	4/84
CHECKED	REW	DATE	4/84
TRACED	MAV	DATE	4/84
SCALE	1" = 50' H 1" = 5' V		
CONTRACT NO. DNT-115 SHEET R67 OF R85			



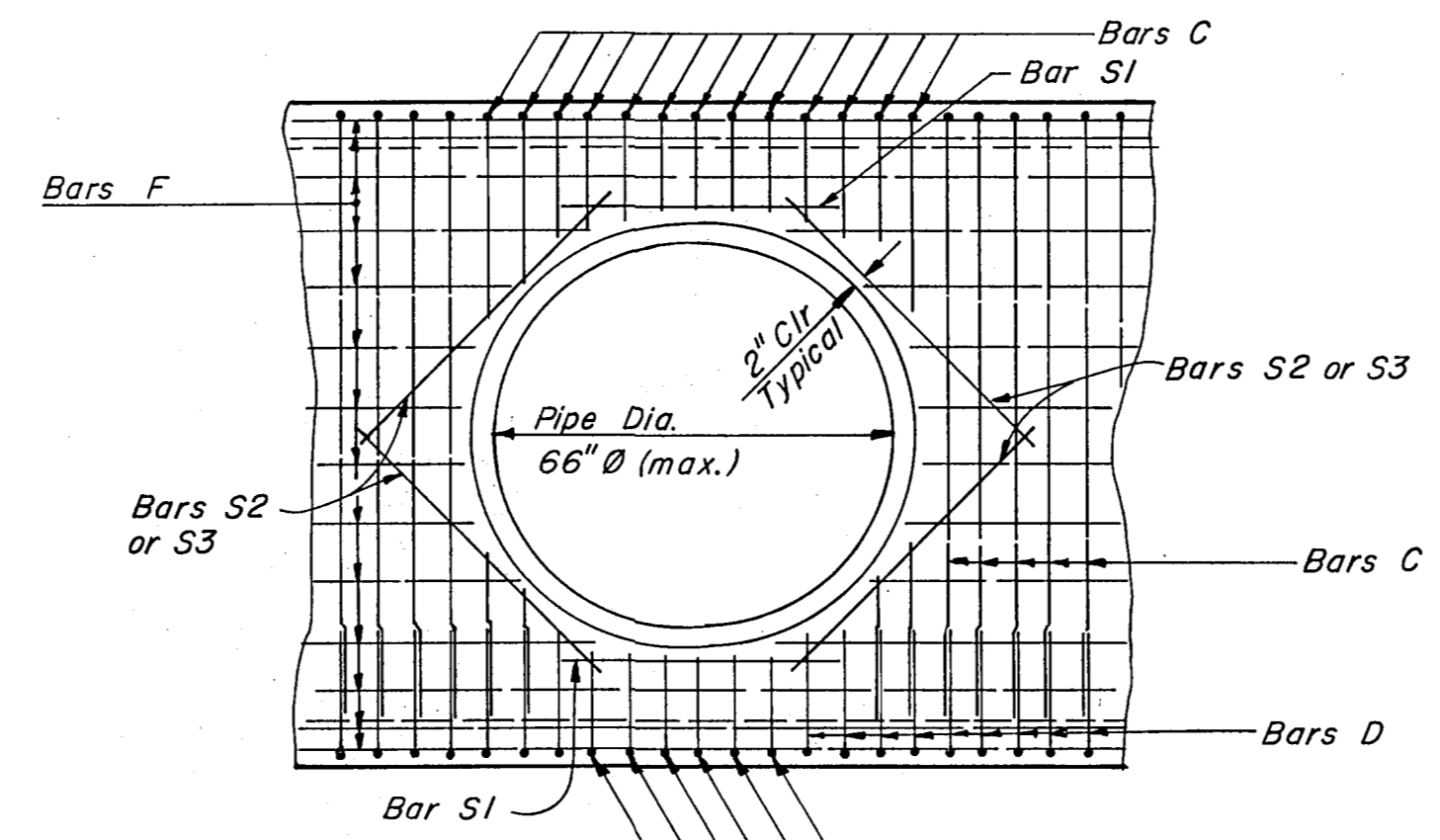
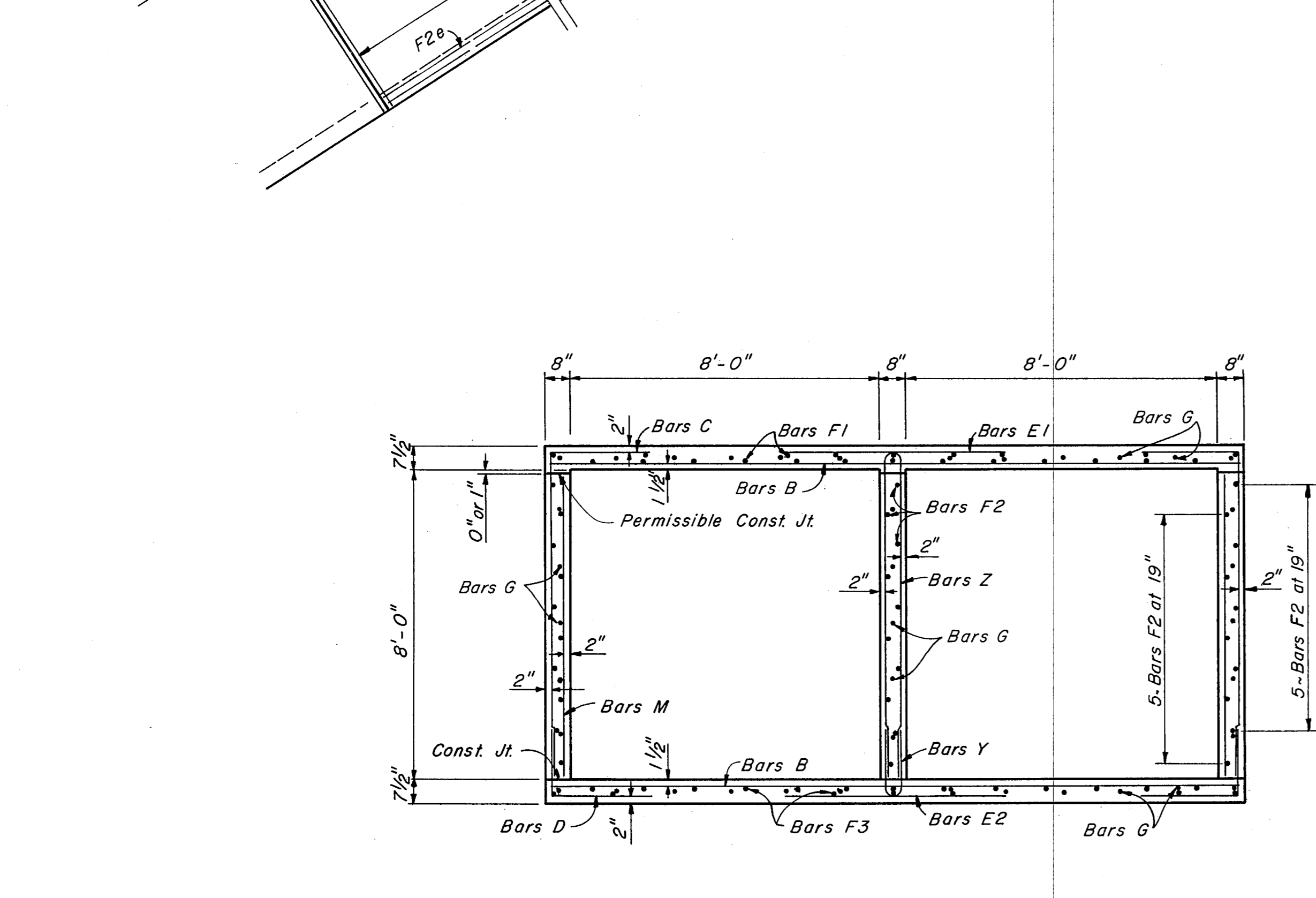
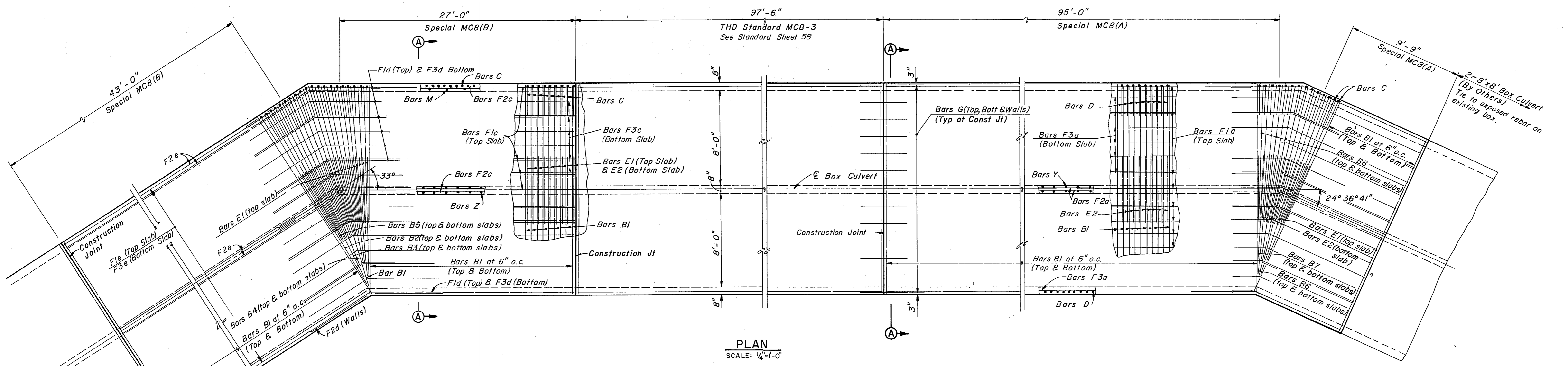
PLAN
SCALE: 1"=20'



PROFILE
SCALE: 1"=20' HOR
1"=10' VERT

- NOTES:**
1. See Sheet R69 for Special MCB details.
 2. Contractor shall use extreme caution when excavating proposed box culvert because of close proximity to existing 12" sanitary sewer and 36" water line.
 3. All dimensions shown are measured along the centerline of the Box Culvert.
 4. All concrete shall be class "C".
 5. All reinforcing steel shall be ASTM A-615 grade 60

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY			
DALLAS NORTH TOLLWAY			
SPECIAL BOX CULVERT DETAILS			
STA 642+50			
Gibbs & Hill, Inc.			SECTION VII
<small>ENGINEERS DESIGNERS CONSTRUCTORS DALLAS</small>			
DRAWN	VFR	DATE	7-5-83
CHECKED	LSRa	DATE	7-6-83
DESIGNED	LSRa	DATE	6-30-83
SCALE	As Shown		
CONTRACT NO. DNT-115 SHEET R68 OF R85			



NOTES: 1. Bars shall be cut to provide 2" clearance from outside diameter of pipe.
2. See Sheet R68 for pipe entrance locations

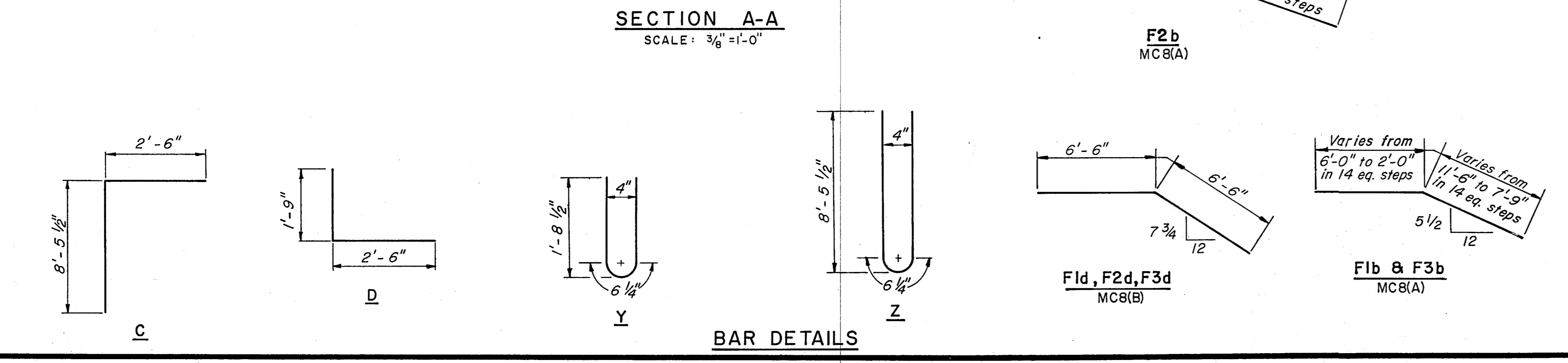
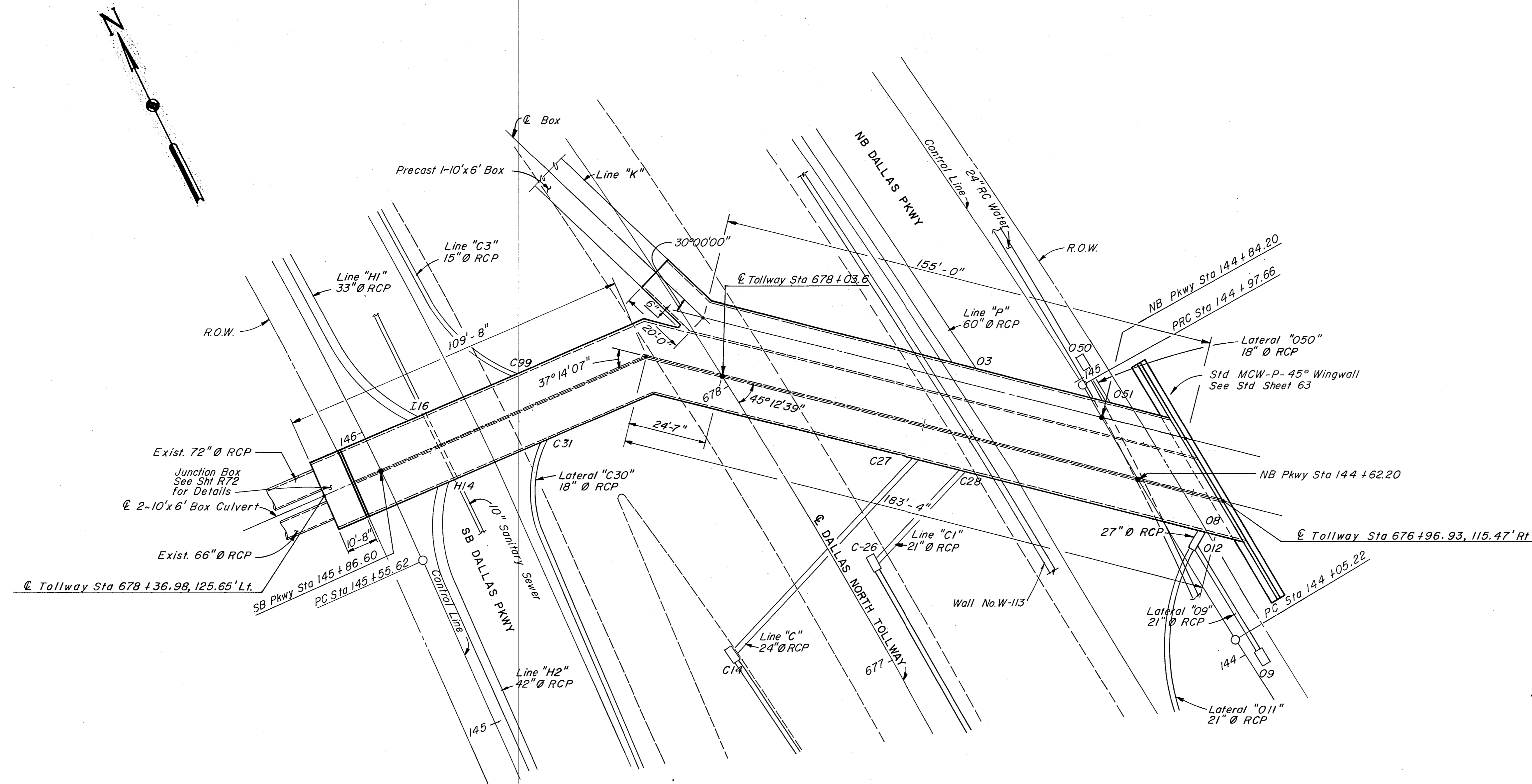


TABLE OF REINFORCING STEEL

SPECIAL MC8(B)							SPECIAL MC8(A)						
BAR	TYPE	SIZE	SPACING	NO.	LENGTH	WEIGHT	BAR	TYPE	SIZE	SPACING	NO.	LENGTH	WEIGHT
B1	Str	#6	6"	266	17'-8"	7060	B1	Str	#6	6"	406	17'-8"	10775
B2	Str	#6	~	4	16'-8"	100	B6	Str	#6	~	6	16'-6"	149
B3	Str	#6	~	4	16'-0"	96	B7	Str	#6	~	8	15'-0"	180
B4	Str	#6	~	4	15'-0"	90	B8	Str	#6	~	12	11'-6"	207
B5	Str	#6	~	24	12'-8"	457	C	Bent	#5	6"	420	10'-11"	4782
C	Bent	#5	6"	284	10'-11"	3234	D	Bent	#5	6"	420	4'-3"	2681
D	Bent	#5	6"	284	4'-3"	1259	E1	Str	#6	6"	211	5'-8"	1797
E1	Str	#6	6"	152	5'-8"	1294	E2	Str	#6	6"	211	5'-8"	1797
E2	Str	#6	6"	152	5'-8"	1294	F1a	Str	#4	~	21	94'-3"	1322
F1c	Str	#4	~	21	24'-0"	337	F1b	Bent	#4	19"	21	13'-8" Avg	192
F1d	Bent	#4	~	21	13'-0"	182	F2a	Str	#4	~	30	94'-3"	1889
F1e	Str	#4	~	21	40'-6"	568	F2b	Bent	#4	~	30	13'-8" Avg	274
F2c	Str	#4	~	30	24'-0"	481	F3a	Str	#4	~	21	94'-3"	1322
F2d	Bent	#4	19"	30	13'-0"	261	F3b	Bent	#4	~	21	13'-8" Avg	192
F2e	Str	#4	~	30	40'-6"	812	G	Str	#5	17 1/2"	41	4'-0"	171
F3c	Str	#4	~	19	24'-0"	305	M	Str	#4	18"	141	7'-11"	746
F3d	Bent	#4	~	19	13'-0"	165	Y	Bent	#4	12"	106	3'-7"	254
F3e	Str	#4	~	19	40'-6"	514	Z	Bent	#4	12"	106	17'-1"	1210
G	Str	#5	17 1/2"	82	4'-0"	342	S1	Str	#4	~	2	4'-0"	5
M	Str	#4	18"	96	7'-11"	508	S2	Str	#4	~	4	4'-9"	13
Y	Bent	#4	12"	71	3'-7"	170	S3	Str	#4	~	4	5'-0"	13
Z	Bent	#4	12"	71	17'-1"	810							
S3	Str	#4	~	8	5'-0"	27							

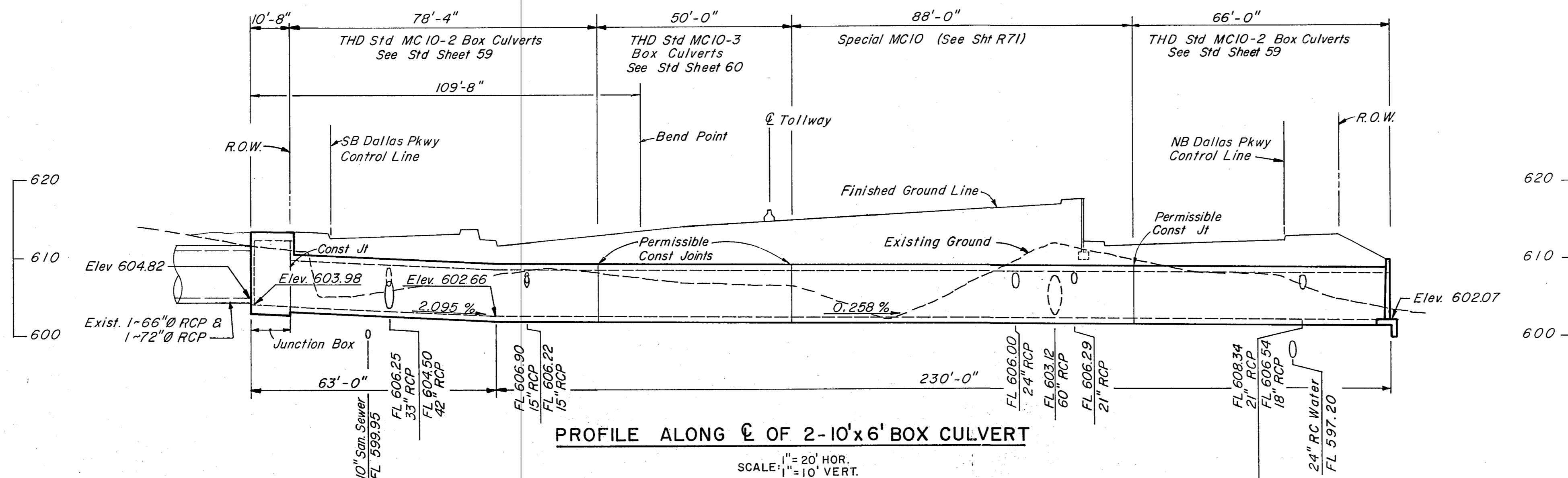
* Quantities are for Contractor's information only.
* Bar length includes 1'-1-6" lap.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY SPECIAL BOX CULVERT DETAILS STA 642+50			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN	VER	DATE	12-19-83
DESIGNED	LSRg	DATE	6-3-83
CHECKED	REF	DATE	12-30-83
SCALE	As Shown		
CONTRACT NO. DNT-115 SHEET R69 OF R85			



PLAN
SCALE: 1" = 20'

NOTES: 1. Contractor shall use extreme caution when excavating for proposed box culvert because of close proximity of existing 24" water line.
2. See Sheet R71 for wingwall details.



PROFILE ALONG C OF 2-10'x6' BOX CULVERT
SCALE: 1" = 20' HOR.
1" = 10' VERT.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
BOX CULVERT LAYOUT STA 678 + 20			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN	VER	DATE 1-27-84	DESIGNED REW DATE 1-21-84
CHECKED	REW	DATE 1-28-84	SCALE As Shown
CONTRACT NO. DNT-115 SHEET R70 OF R85			

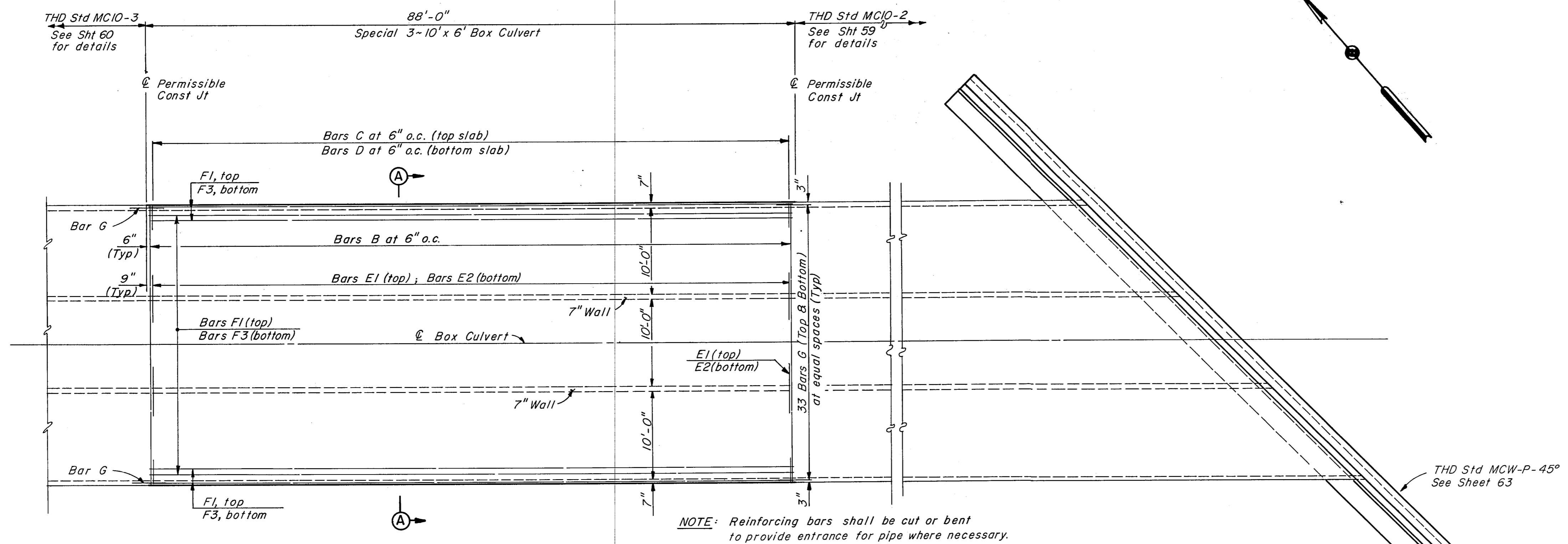
TABLE OF REINFORCING STEEL

BAR	TYPE	SIZE	SPACING	NO.	LENGTH	WEIGHT
B	Str	#5	6"	350	32'-0"	11682
C	Bent	#5	6"	350	9'-5"	3438
D	Str	#6	6"	350	5'-1"	2672
E1	Str	#6	6"	348	5'-8"	2962
E2	Str	#6	5 1/2"	380	5'-8"	3234
F1	Str	#4	~	35	89'-4"	2089
F2	Str	#4	9"	32	89'-4"	1910
F3	Str	#4	~	35	89'-4"	2089
M	Str	#4	15"	144	5'-11"	569
Y	Bent	#4	12"	176	3'-11"	460
Z	Bent	#4	12"	176	13'-5"	1577
G	Str	#4	12"	132	4'-0"	353

ESTIMATED QUANTITY SUMMARY

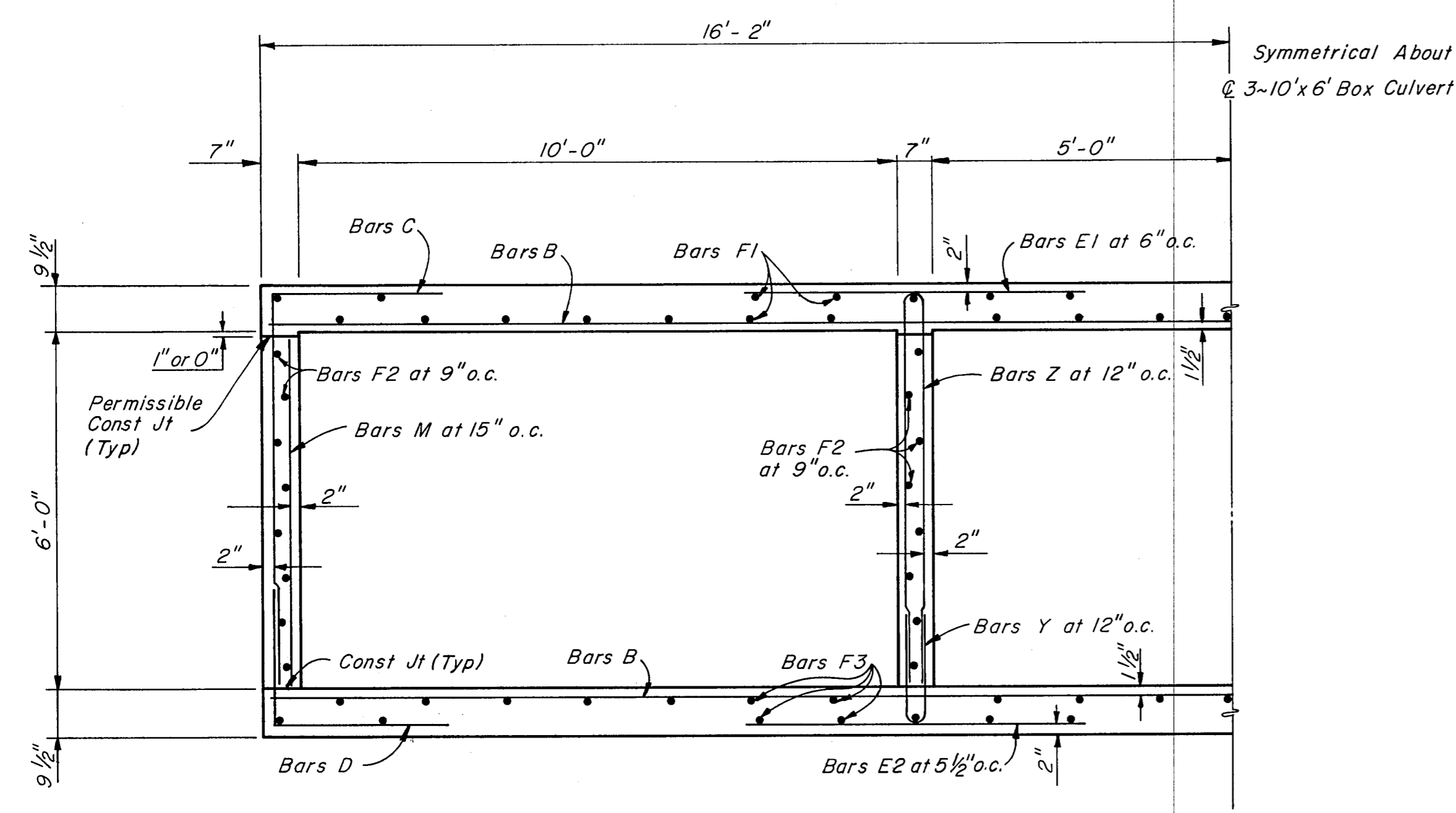
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
* 421	CLASS C CONCRETE	CY	212.5
* 440	REINFORCING STEEL	Lbs	33,035

■ Bar length includes one-1'-6" lap.
 * Quantities are for Contractor's information only.

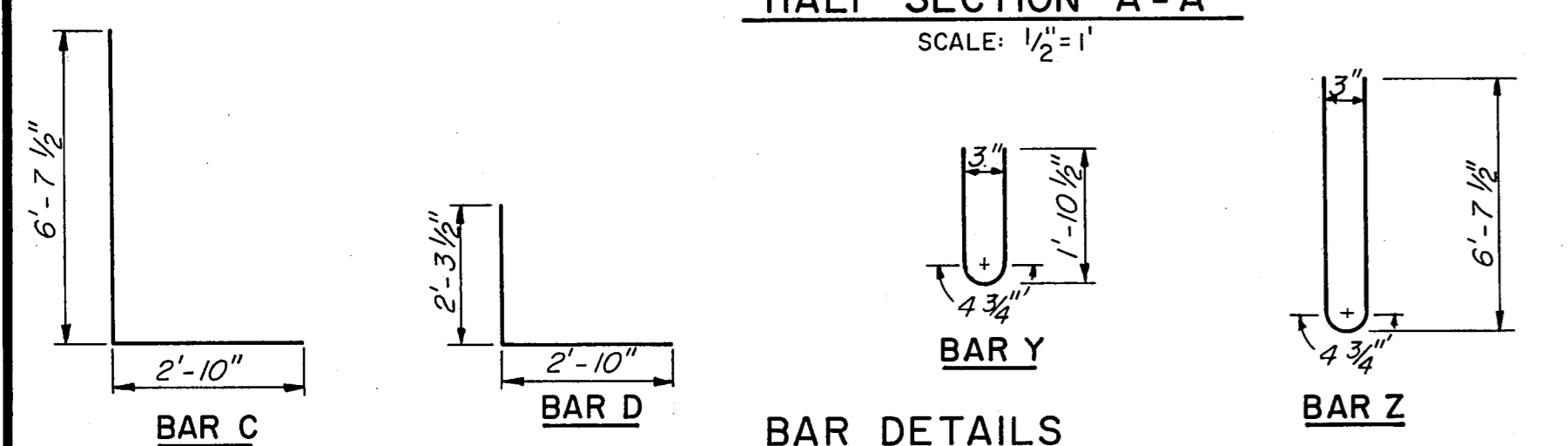


NOTE: Reinforcing bars shall be cut or bent to provide entrance for pipe where necessary.

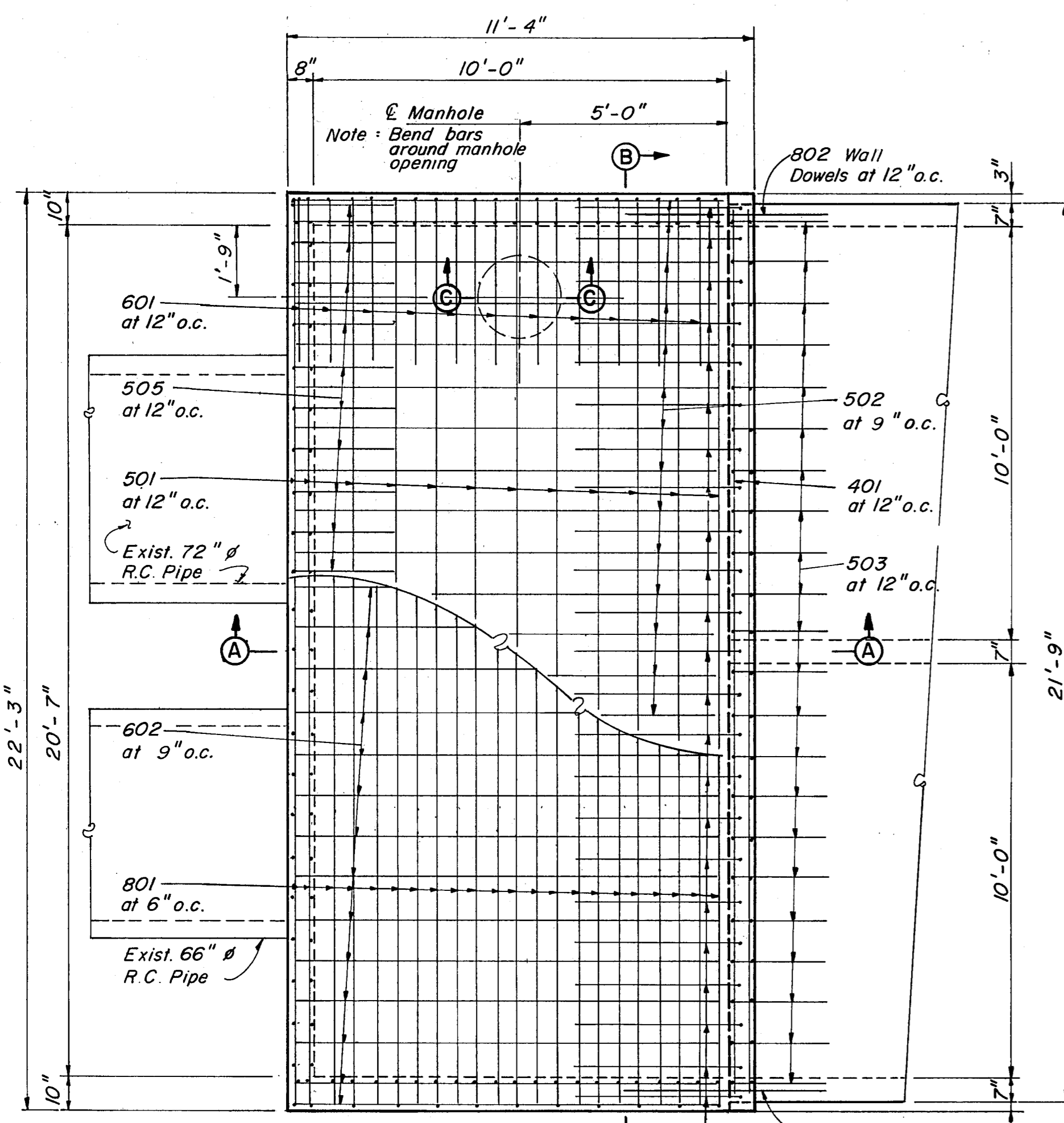
PLAN
 SCALE: 1/8"=1'



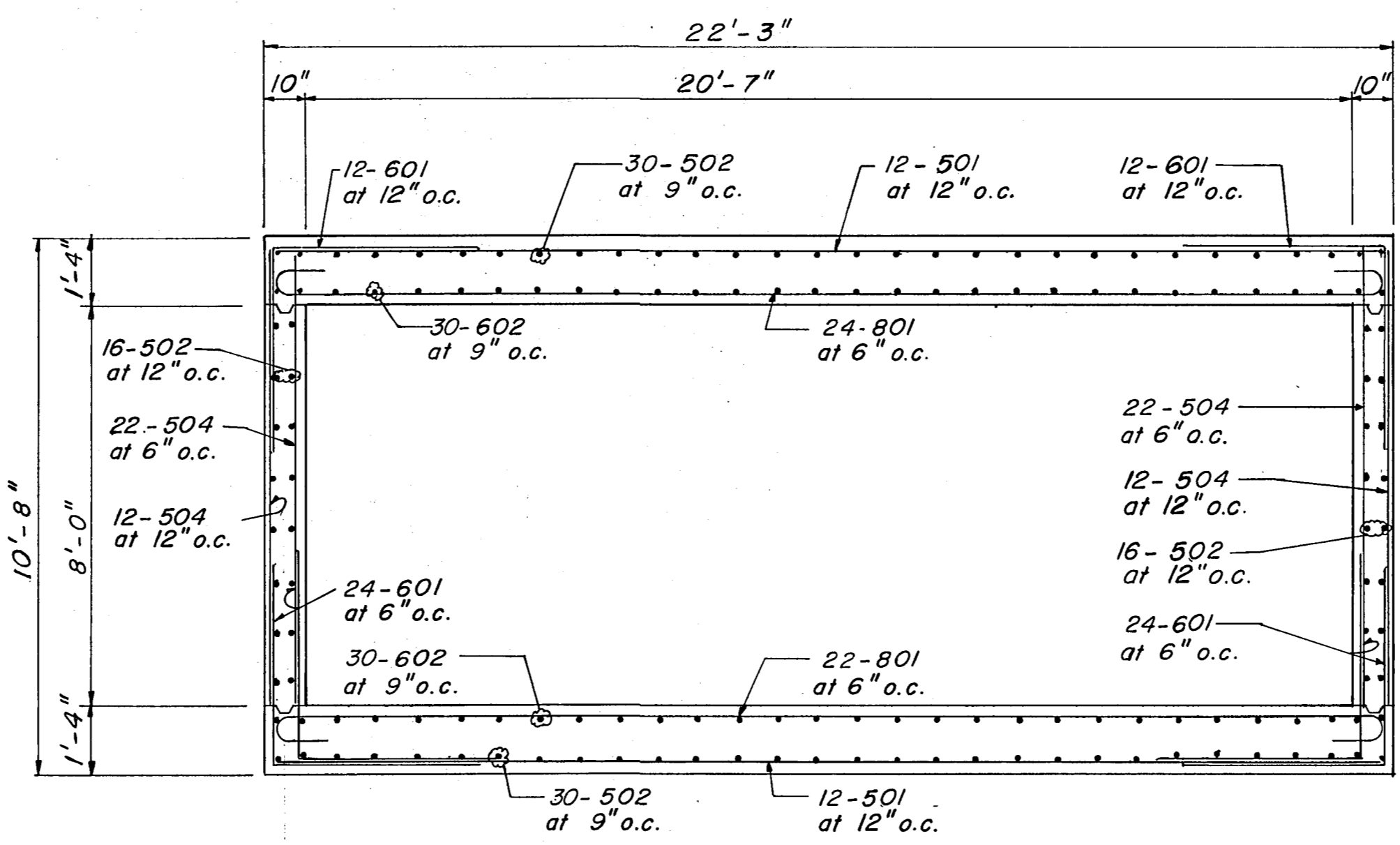
HALF SECTION A-A
 SCALE: 1/2"=1'



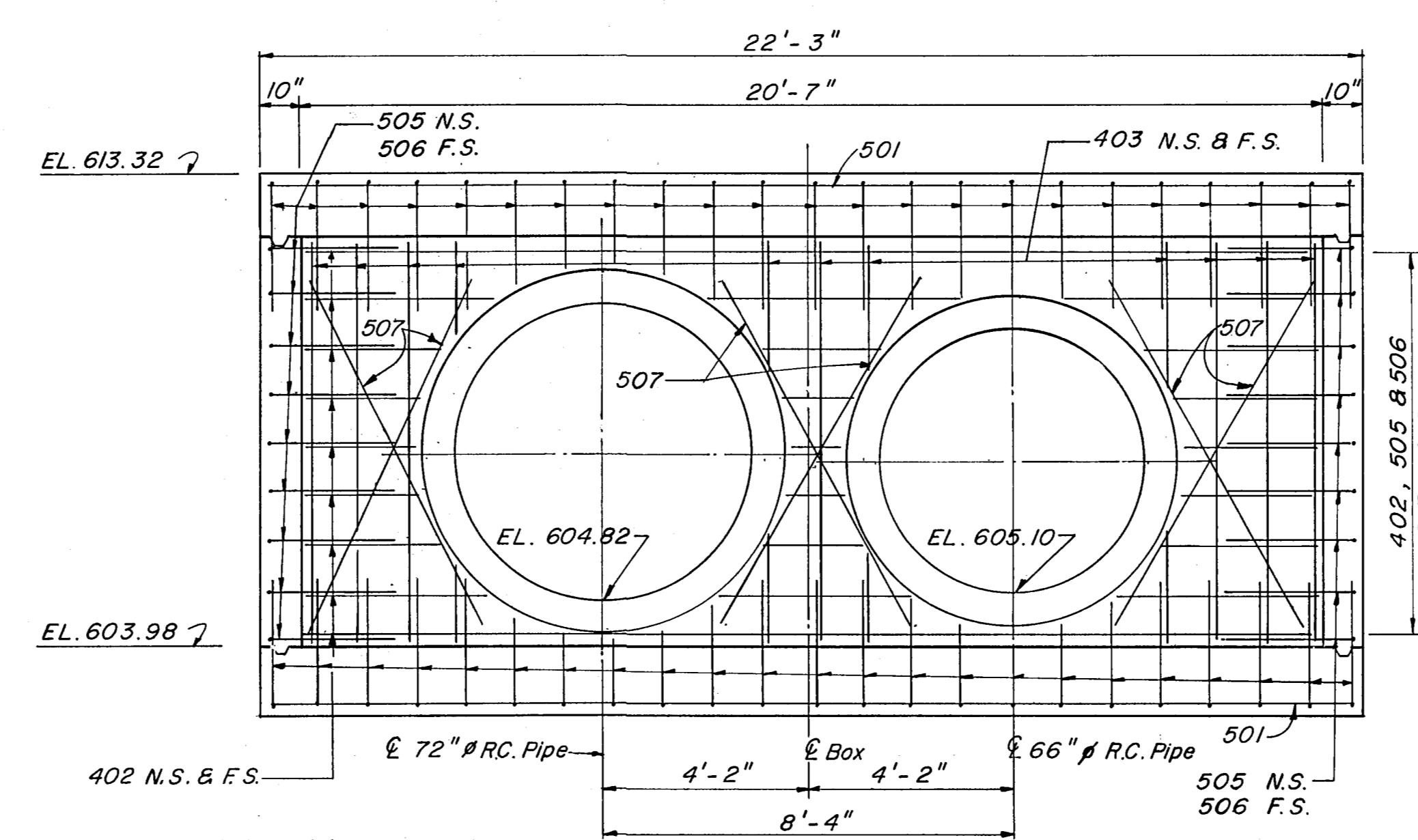
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY SPECIAL BOX CULVERT DETAILS STA 678 + 20			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN	VER	DATE	2-6-84
CHECKED	REF	DATE	2-6-84
DESIGNED	HS	DATE	2-1-84
SCALE	As Shown		
CONTRACT NO. DNT-115 SHEET R71 OF R85			



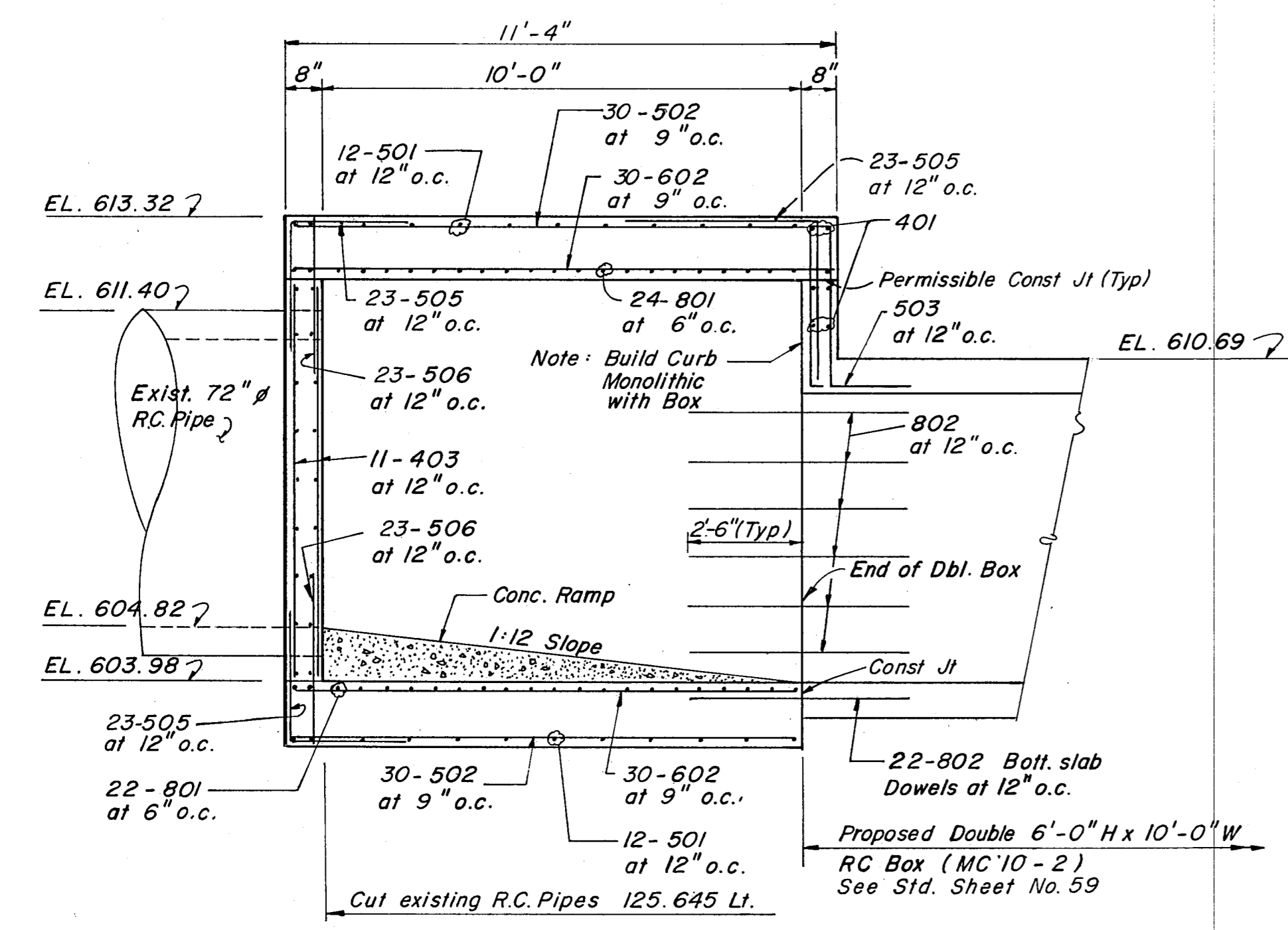
SLAB PLAN
SCALE: 3/8" = 1'-0"



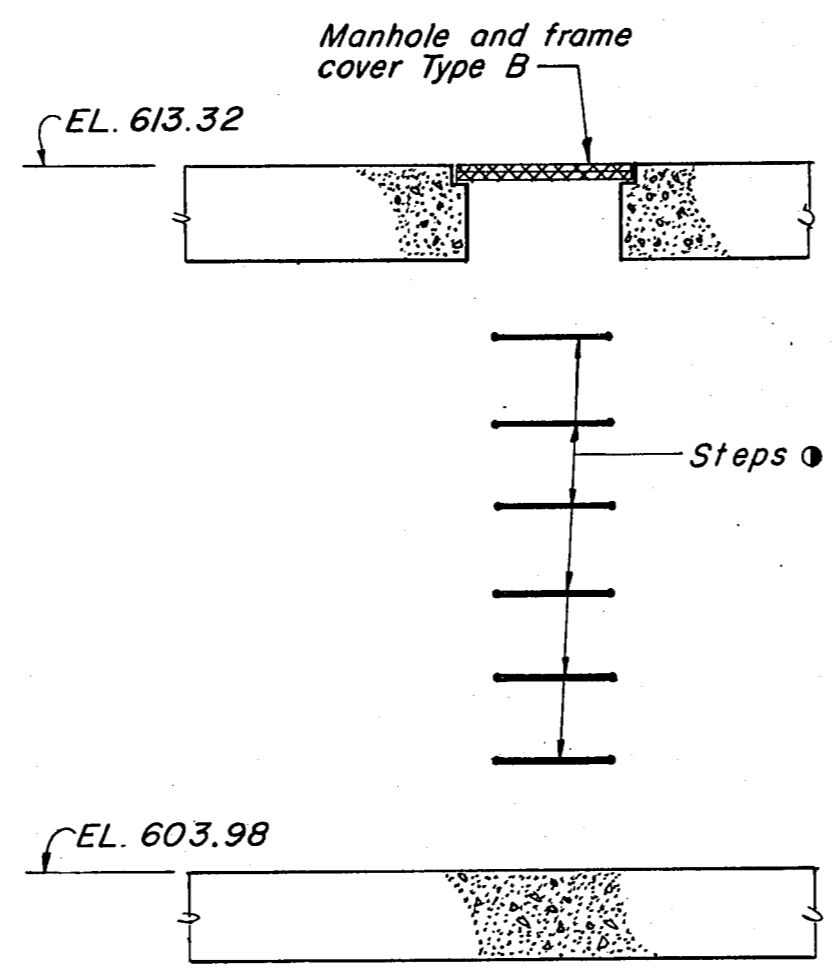
SECTION B-B
SCALE: 3/8" = 1'-0"



ELEVATION (AT WEST END OF BOX)
SCALE: 3/8" = 1'-0"

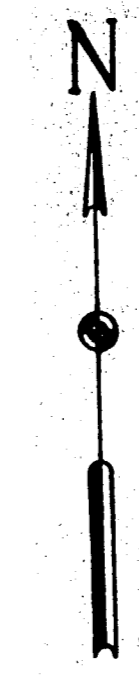


SECTION A-A
SCALE: 3/8" = 1'-0"



SECTION C-C
SCALE: 3/8" = 1'-0"

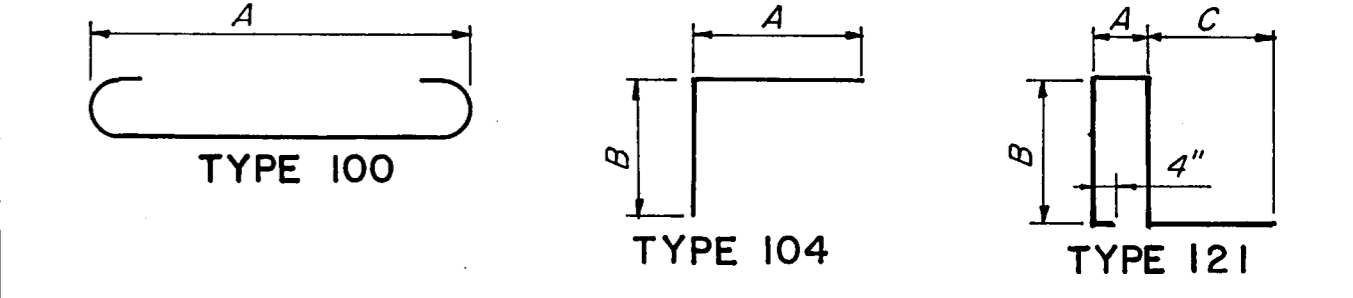
NOTE: Steps for Junction Box shall be placed at intervals of 16 inches as directed by the Engineer in Charge and shall conform to Bass and Hayes Foundry, Inc. Standard Manhole Pattern No. 90 or equal.



BILL OF REINFORCING STEEL

MARK	NO	LENGTH	TYPE	DIMENSIONS				WEIGHT
				A	B	C	D or R	
401	6	21'-6"	Str.					86
402	18	20'-5"	Str.					246
403	22	7'-9"	Str.					114
501	24	22'-0"	Str.					551
502	92	11'-1"	Str.					1063
503	22	8'-6"	121	0'-5"	3'-0"	1'-9"		195
504	68	9'-2"	Str.					650
505	87	5'-0"	104	2'-6"	2'-6"			453
506	64	3'-0"	Str.					201
507	12	9'-6"	Str.					119
601	72	8'-0"	104	4'-0"	4'-0"			865
602	60	11'-1"	Str.					999
801	46	24'-0"	100	22'-0"				2948
802	34	5'-0"	Str.					454
Total Lbs.								8944

BAR BENDING DIAGRAMS



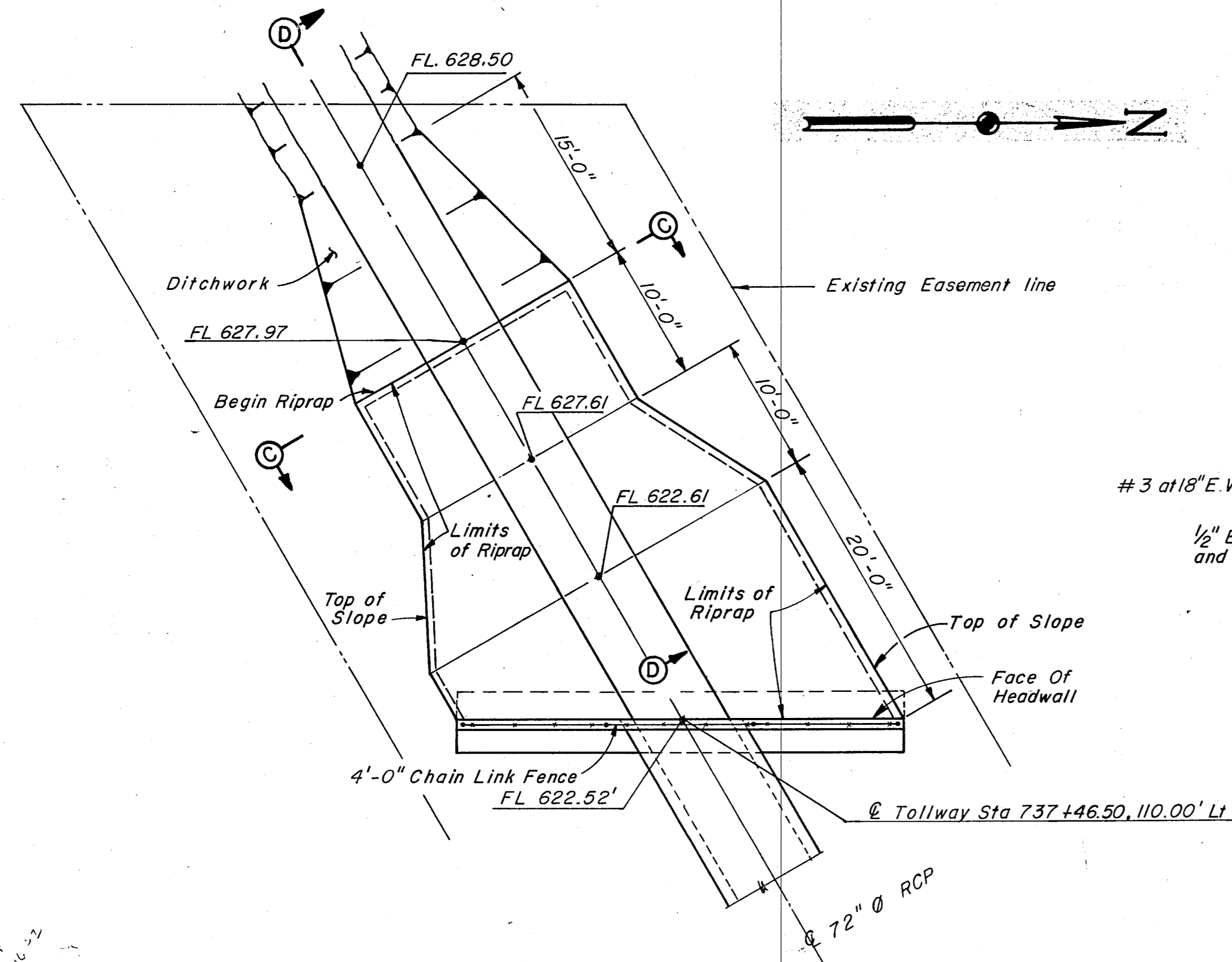
Note: Bar Dimensions are given out to out of Bar. Diameters are given to inside of Curve.

ESTIMATED QUANTITY SUMMARY

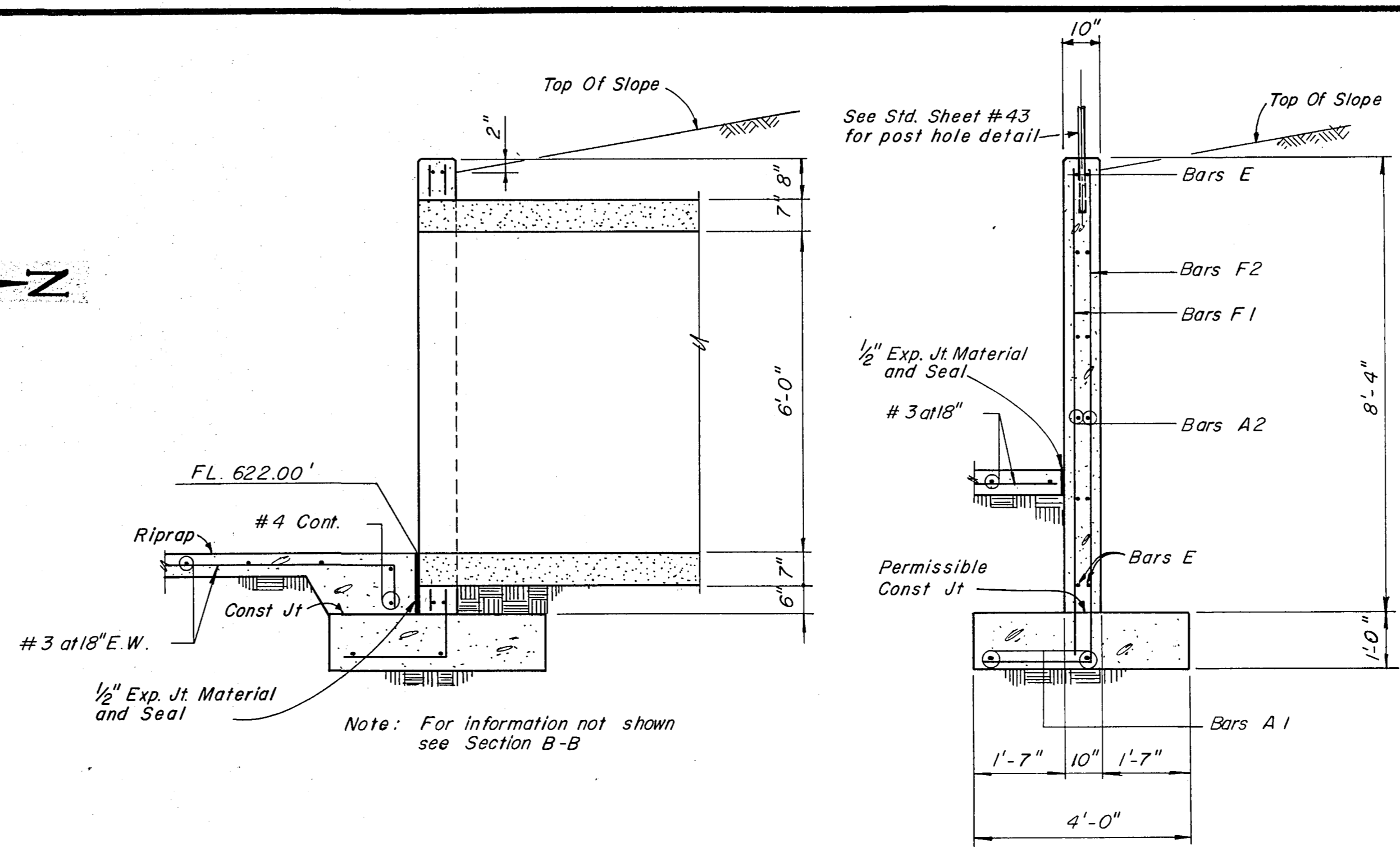
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
* 421	Concrete - Class C	CY	33.7
* 440	Reinforcing Steel	Lbs.	8944
* 471	Manhole & Frame Cover - Type B	Ea.	1

NOTES:
 * Quantities are for Contractor's information only.
 Concrete to be Class C.
 Reinforcing Steel to Conform to ASTM - A-615 Grade 60.
 All exposed corners to be chamfered 3/4".
 All reinforcing steel shall have a minimum cover of 1 1/2 inches.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY JUNCTION BOX DETAILS STA 678 + 20			
Gibbs & Hill, Inc. <small>ENGINEERS DESIGNERS CONSTRUCTORS</small> <small>DALLAS</small>			SECTION VII
DRAWN	DATE	DESIGNED	DATE
MAV	1/9/84	HS	1/4/84
CHECKED	DATE	SCALE	
HS	1/31/84	As Shown	
CONTRACT NO. DNT-115 SHEET R72 OF R85			

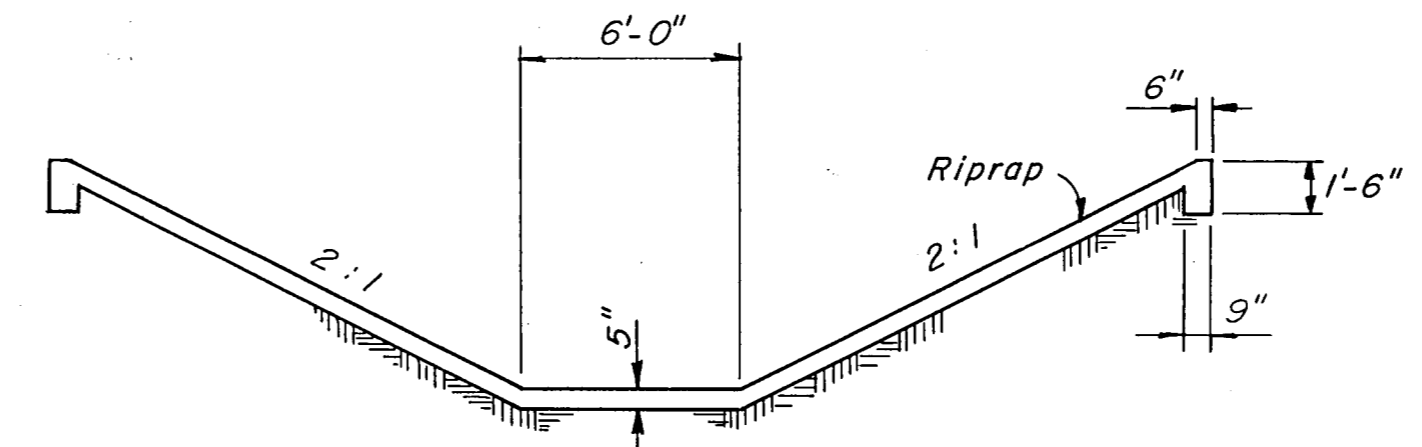


HEADWALL PLAN
Scale: 1/8" = 1'-0"

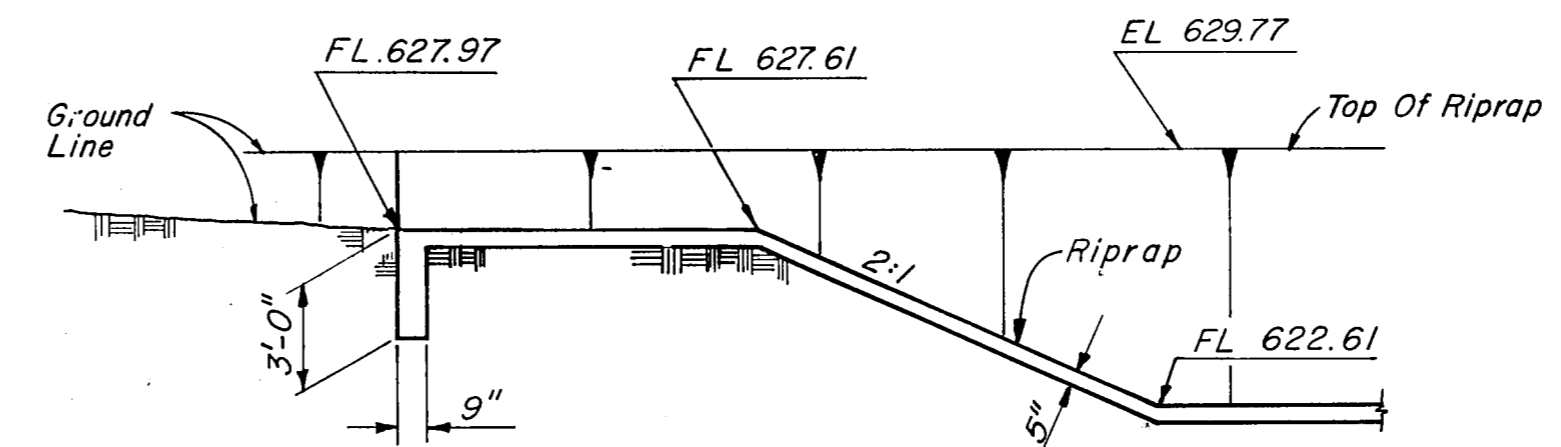


SECTION A-A
Scale: 1/2" = 1'-0"

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

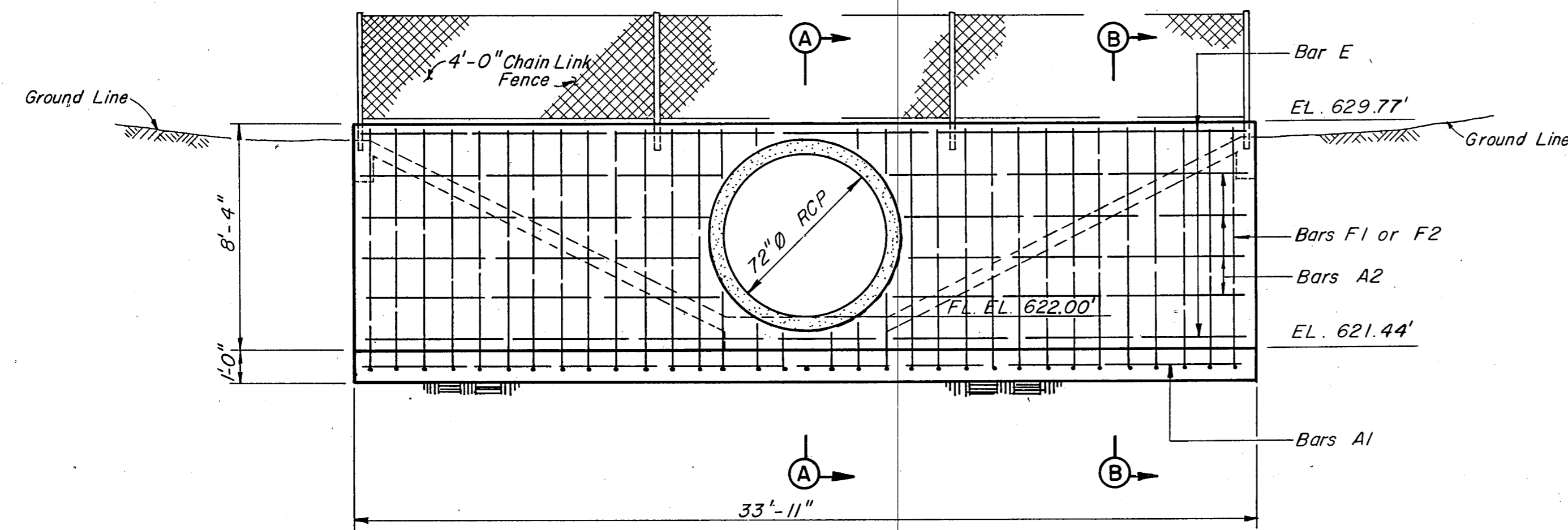


SECTION C-C
Scale: 3/16" = 1'-0"



SECTION D-D
Scale: 3/16" = 1'-0"

23' x 4'
23' x 4'
23' x 4'
23' x 4'



ELEVATION
Scale: 1/4" = 1'-0"

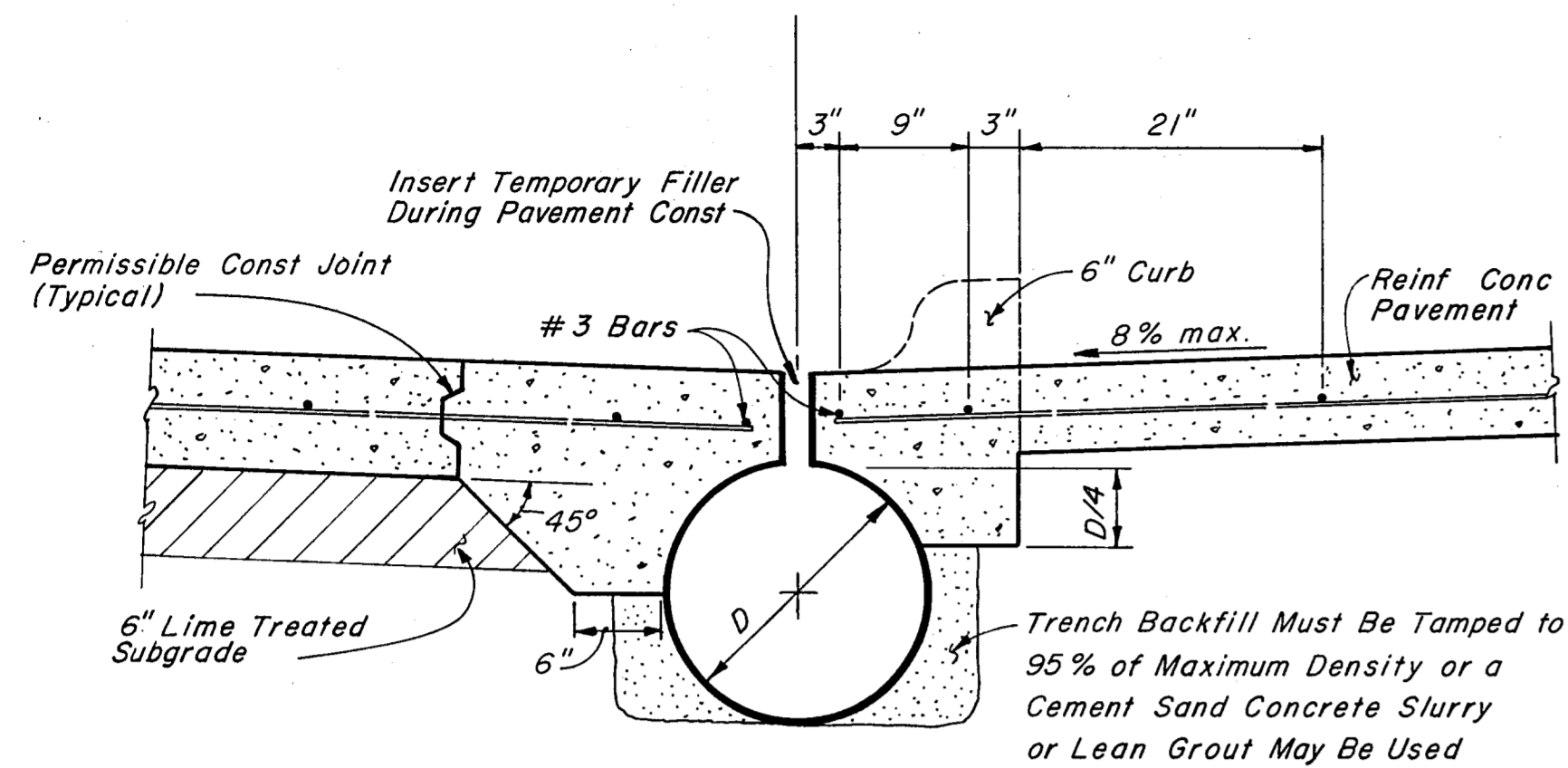
BAR	TYPE	SIZE	SPACING	NO.	LENGTH	WEIGHT
A1	Str	#4		2	33'-7"	44
A2	Str	#4	18"	16	12'-9"	137
E	Str	#5		4	33'-7"	140
F1	Str	#5	12"	28	9'-0"	263
F2	Bent	#5	12"	28	11'-2"	326

ITEM NO.	DESCRIPTION	UNIT	QUANTITY
421	CLASS C CONCRETE	CY	12.5
440	REINFORCING STEEL	Lbs	910
590	CHAIN LINK SECURITY FENCE	LF	34

* Quantities for Contractor's information only

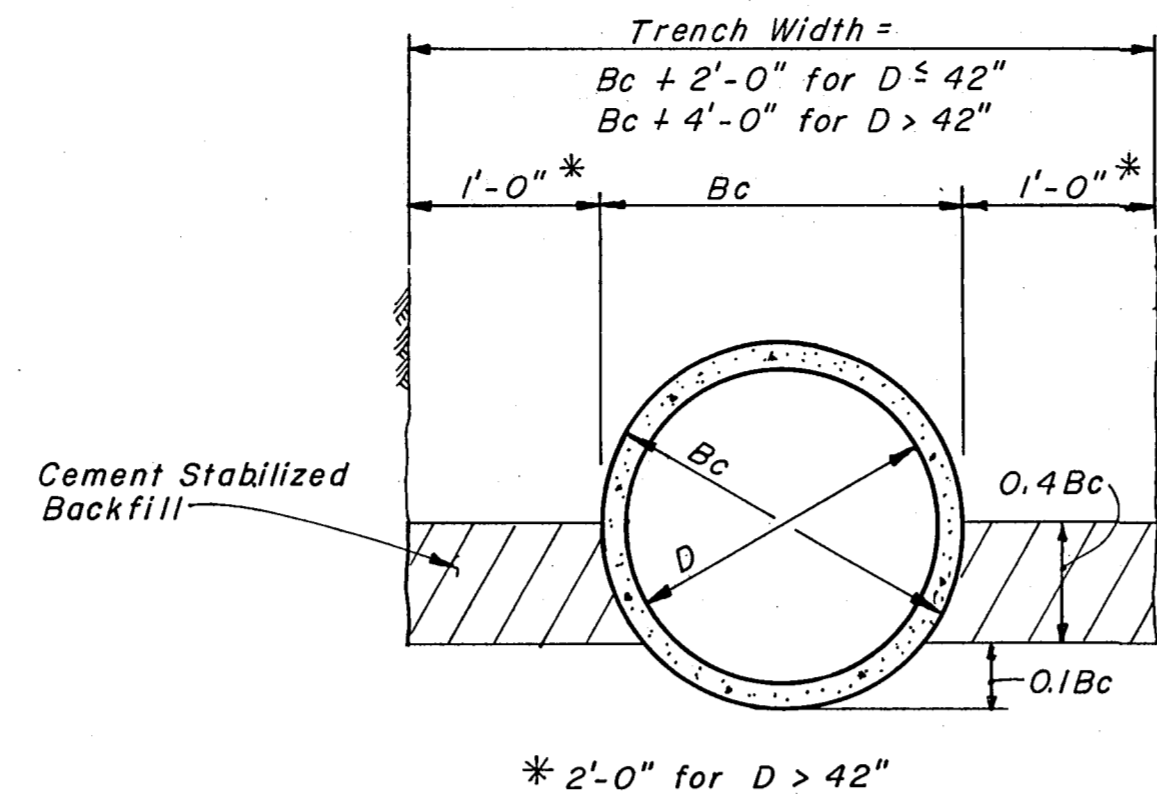
- NOTES:**
- All riprap concrete shall be Class "B".
 - All exposed corners shall be chamfered 3/4".
 - Reinforcing steel shall be placed with the center of the outside layer of bars 2" from the surface of the concrete.
 - All headwall concrete shall be Class "C".
 - All reinforcing steel shall be ASTM A-615 Grade 60.

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
PIPE HEADWALL & RIPRAP DETAILS TOLLWAY STA 737+50			
Gibbs & Hill, Inc. ENGINEERS DESIGNERS CONSTRUCTORS DALLAS			SECTION VII
DRAWN	JW	DATE	4-23-84
CHECKED	REF	DATE	4-24-84
DESIGNED	DWC	DATE	4-19-84
SCALE	As Shown		
CONTRACT NO. DNT-115 SHEET R73 OF R85			



SLOTTED DRAIN DETAIL FOR REINFORCED CONCRETE PAVEMENT

NOTES: Slotted drain is manufactured in 20' lengths. Installations should be multiples of 20' or half-length sections of 10'. Slotted drains shall be connected to storm drain laterals by standard bends, connecting bands and the required length and size of corrugated metal pipe. The extra concrete for the thickened pavement shall be included in the cost of the drain. Paving details shown are for use with 6" deep grate on slotted drain. Heel plate shall be installed according to manufacturer's recommendations.



CEMENT STABILIZED BACKFILL

LOCATIONS OF MEDIAN MOUNTED LIGHT POLES

40 FT. MOUNTING HEIGHT	
639+82	693+28
642+14	695+78
644+46	698+28
646+78	700+78
655+78	703+28
658+28	705+78
660+78	707+92
663+28	710+06
665+78	712+20
668+28	714+34
670+78	716+48
673+28	718+62
675+78	720+78
678+28	723+28
680+78	725+78
682+78	728+28
684+78	730+78
686+78	733+28
688+78	735+78
690+78	

LOCATIONS OF GROUND MOUNTED LIGHT POLES

MAINLINE TERMINATION

25 FT. MOUNTING HEIGHT	
734+50	NORTHBOUND
737+09	SOUTHBOUND
738+40	SOUTHBOUND

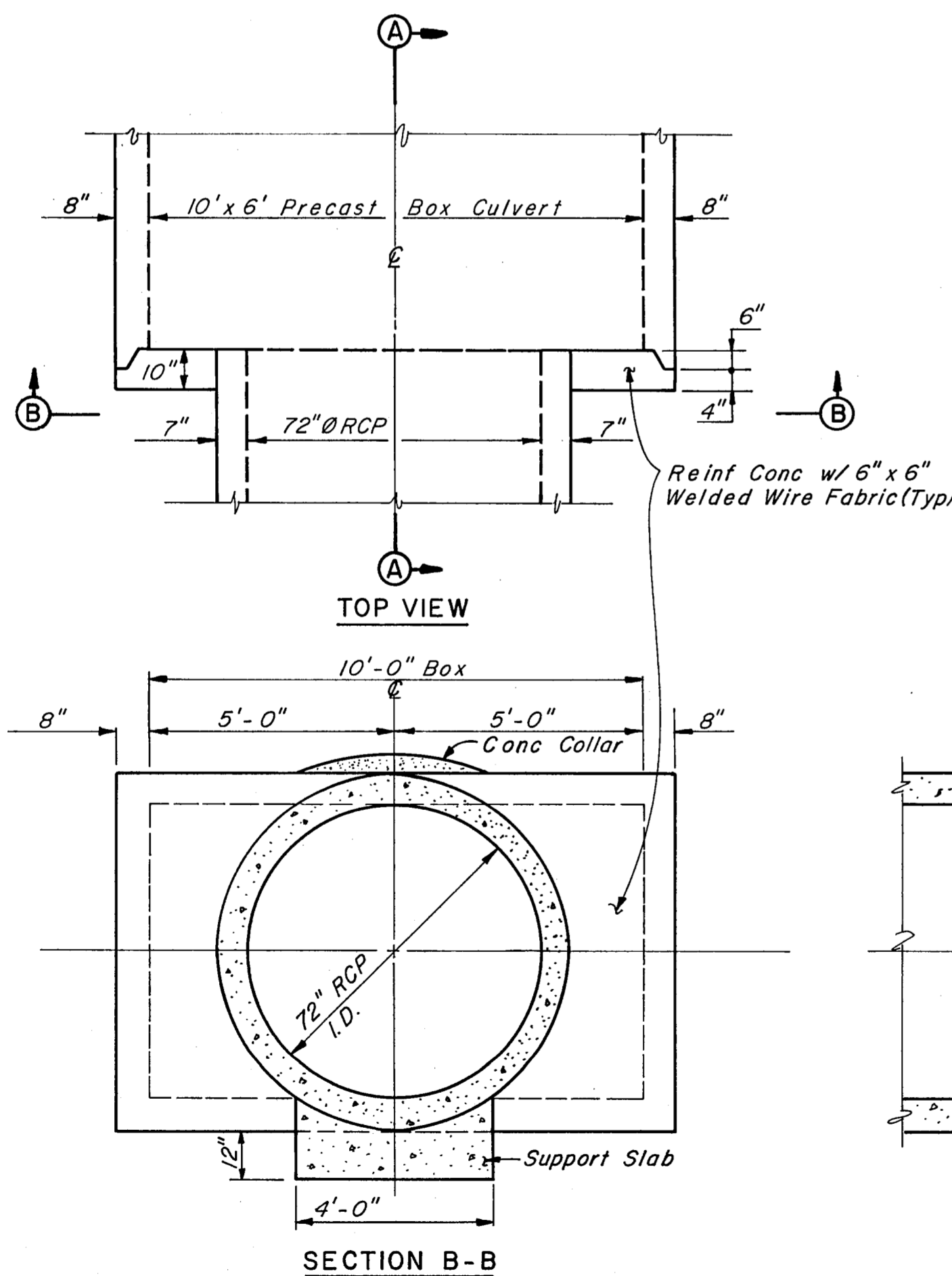
MAIN TOLL PLAZA

35.0 FT. MOUNTING HEIGHT	
NORTHBOUND:	SOUTHBOUND:
648+49*	648+49*
650+19*	650+19*
652+37*	652+37*
654+07*	654+07*
3+04	3+15

* WITH 2 FLOOD LIGHTS

NOTE: SEE STANDARD DRAWING NO. 32 FOR DETAILS OF MEDIAN MOUNTED LIGHT POLE LOCATIONS. MEDIAN LIGHT POLE LOCATIONS ARE SHOWN ONLY TO INDICATE LOCATIONS OF TYPE 2 CONCRETE TRAFFIC BARRIER. LIGHT POLES WILL BE INSTALLED BY OTHERS.

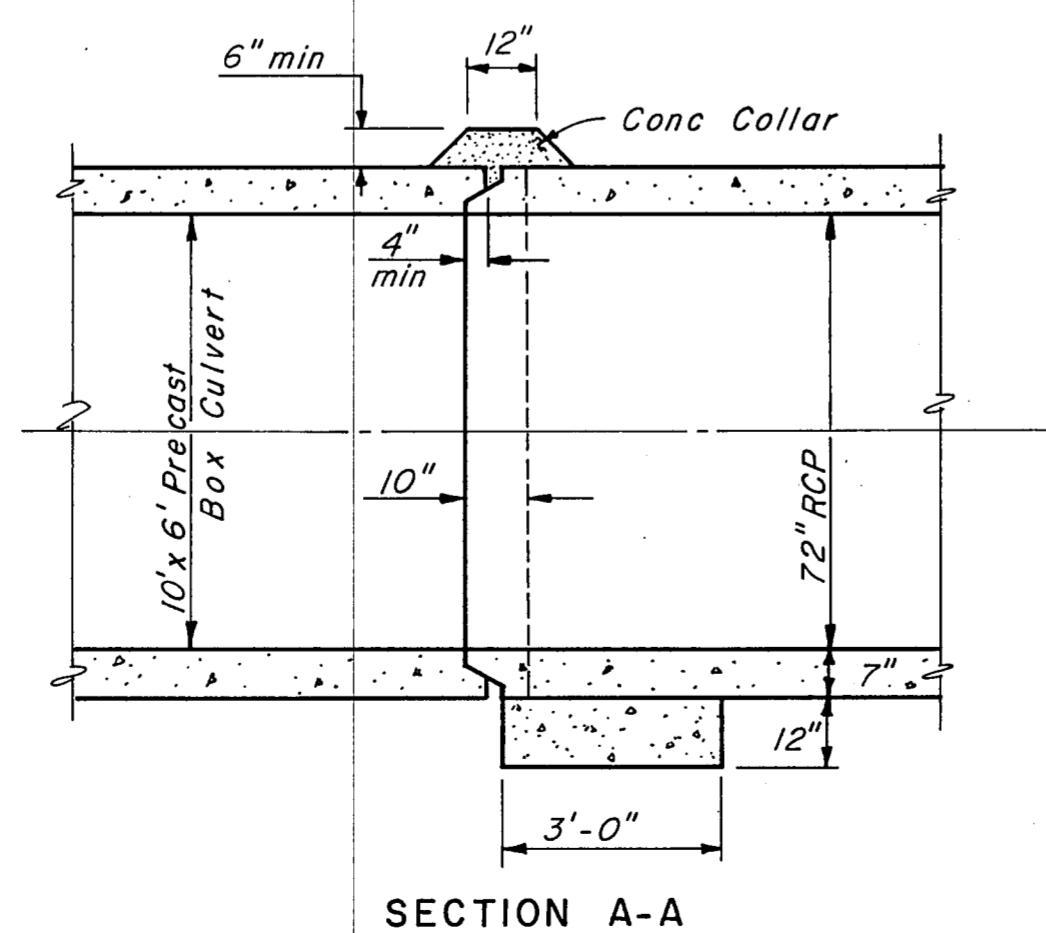
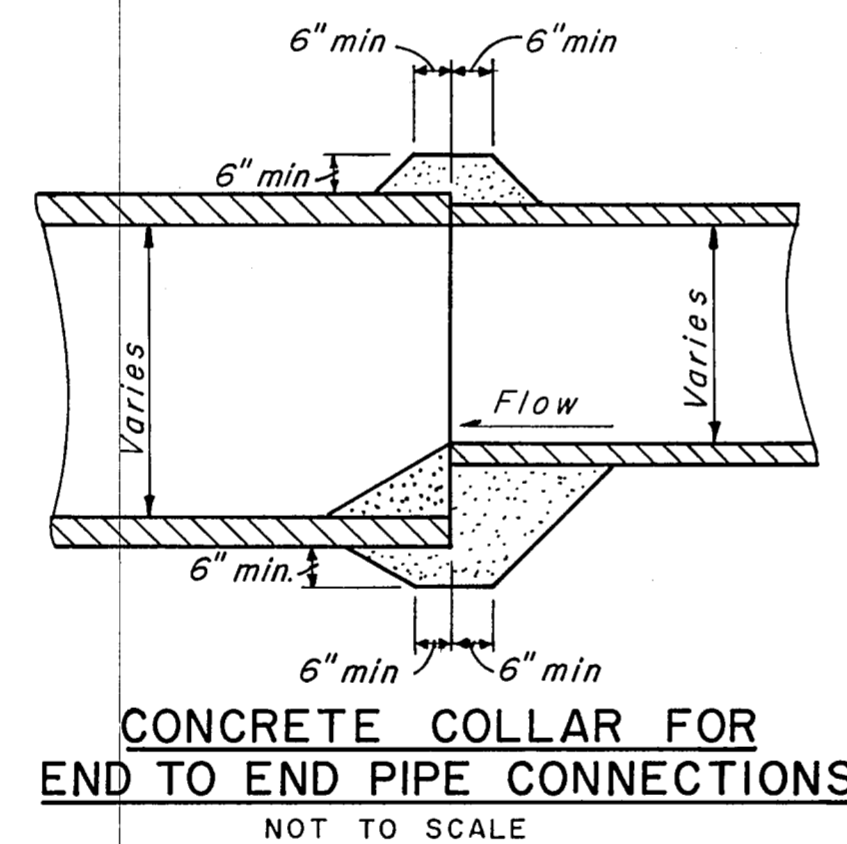
NOTE: LOCATIONS OF GROUND MOUNTED LIGHT POLES ARE SUPPLIED FOR CONTRACTOR'S INFORMATION ONLY. INSTALLATION WILL BE BY OTHERS.



PIPE TO BOX CULVERT CONNECTION

SCALE: 3/8" = 1'-0"

Note: See Sheets R10 & R58 For Location



SECTION A-A

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
MISCELLANEOUS DETAILS DRAINAGE & LIGHTING			
Gibbs & Hill, Inc. <small>ENGINEERS DESIGNERS CONSTRUCTORS</small>			SECTION VII
<small>DRAWN</small> VER <small>CHECKED</small> DWC	<small>DATE</small> 4/21/84 <small>DATE</small> 5/8/84	<small>DESIGNED</small> DWC <small>SCALE</small> As Shown	<small>DATE</small> 4/19/84
CONTRACT NO. DNT-115 SHEET R74 OF R85			