

TEXAS TURNPIKE AUTHORITY

CONTRACT NO. DNT 113

GRADING, DRAINAGE AND PAVING

SECTION V

DALLAS NORTH TOLLWAY

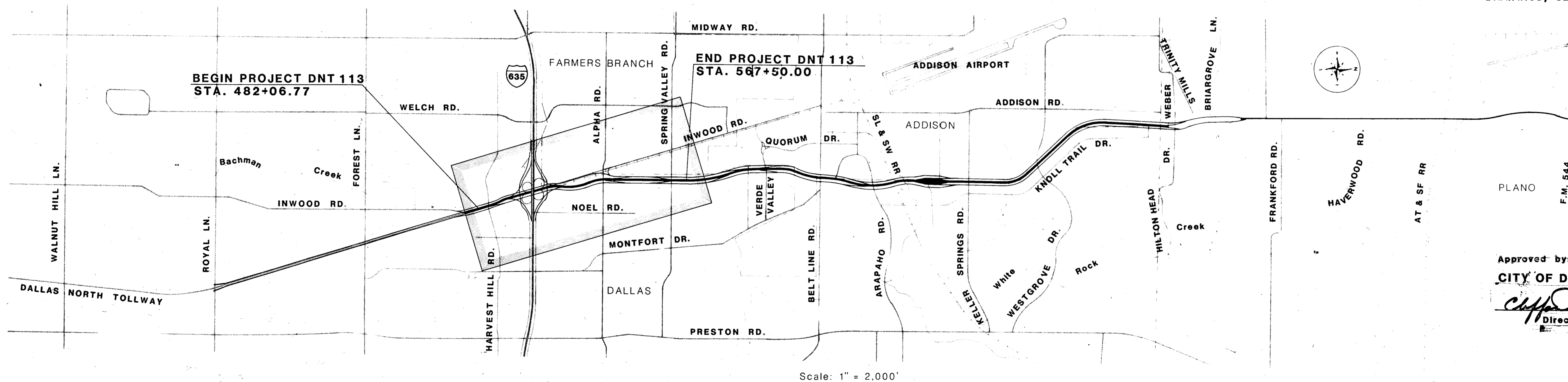
Approved by:
CITY OF FARMERS BRANCH
Paul M. Cest
City Manager
Date: _____

Approved by:
STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION
Robert L. Whiting
District Engineer
Date: Oct 15, 1983

VOLUME NO. I

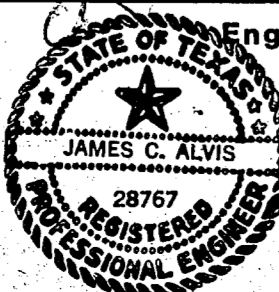
C

NOTE:
FOR INDEX OF SHEETS AND STANDARD DRAWINGS, SEE SHEETS 2 AND 3.

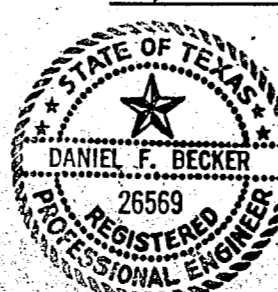


Approved by:
CITY OF DALLAS, TEXAS
Clifford R. Kelly
Director of Public Works
Date: 3/20/86

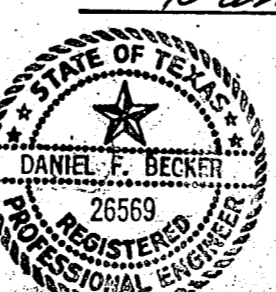
Prepared by:
URS ENGINEERS
James C. Alvord
Engineer in Charge
Date: 10/10/83



Prepared by:
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
Daniel F. Becker
Engineer in Charge
Date: October 11, 1983

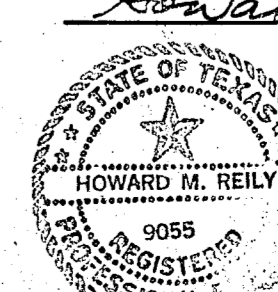


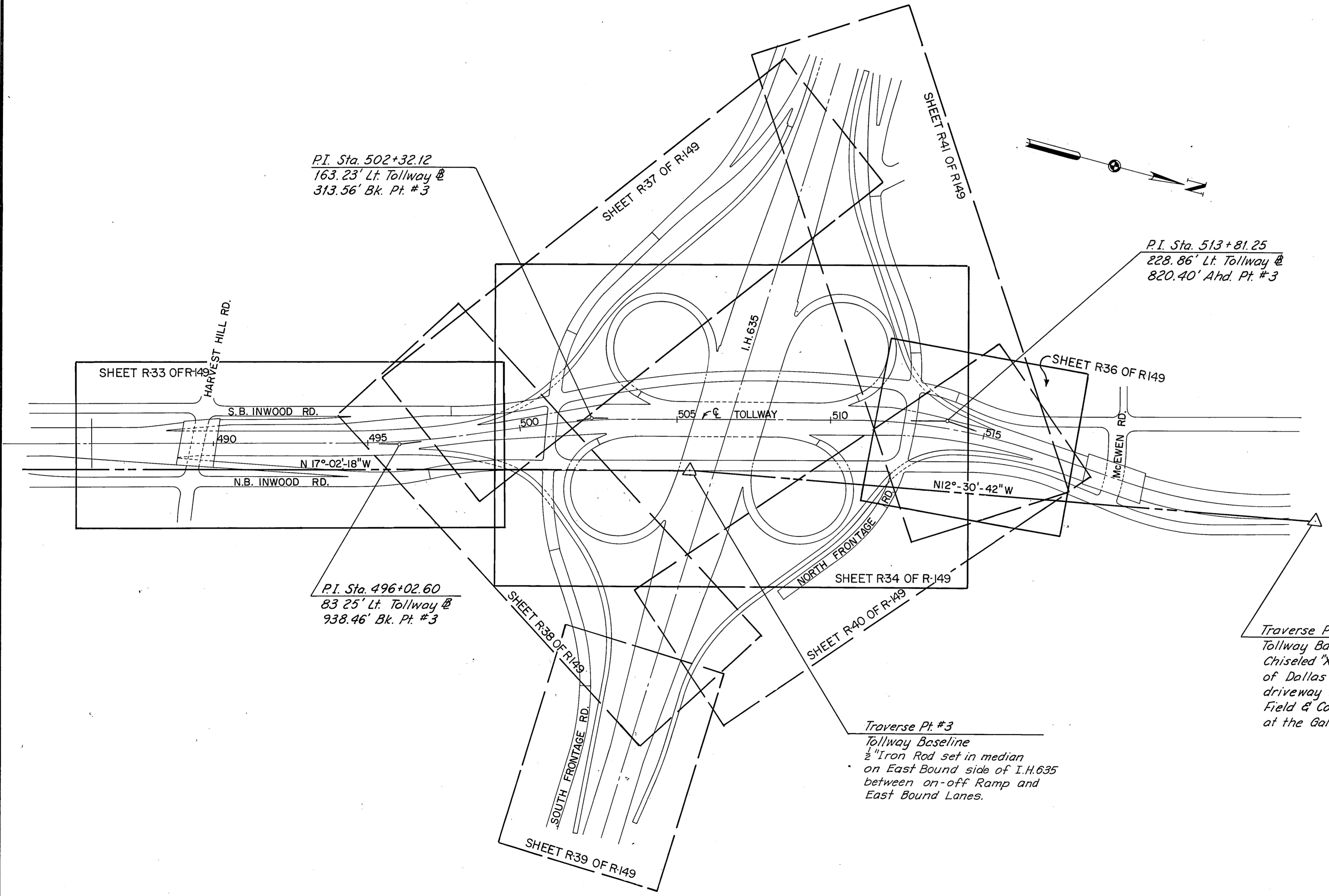
Recommended by:
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
Daniel F. Becker
Engineer in Charge
Date: October 11, 1983



Recommended by:
TEXAS TURNPIKE AUTHORITY
James W. Griffin
Director, Engineering & Maintenance
Date: October 12, 1983

Approved by:
TEXAS TURNPIKE AUTHORITY
Howard M. Reilly
Engineer Manager
Date: Oct 13, 1983





P.I. Sta. 502+32.12
 163.23' Lt. Tollway @
 313.56' Bk. Pt. #3

P.I. Sta. 513+81.25
 228.86' Lt. Tollway @
 820.40' Ahd. Pt. #3

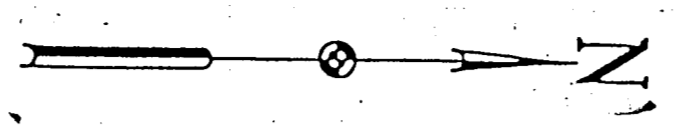
P.I. Sta. 496+02.60
 83.25' Lt. Tollway @
 938.46' Bk. Pt. #3

Traverse Pt. #3
 Tollway Baseline
 1/2" Iron Rod set in median
 on East Bound side of I.H.635
 between on-off Ramp and
 East Bound Lanes.

Traverse Pt. #4
 Tollway Baseline
 Chiseled "X" on East side
 of Dallas Parkway in a
 driveway to the Marshall
 Field & Company Building
 at the Galleria.

AS BUILT PLANS

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
CONTROL LAYOUT AND INDEX TO PLAN & PROFILES			
HNTB <small>HOWARD NEEDLES TAMMEN & BERGENDOFF</small>			SECTION V
<small>DRAWN</small> <i>GRB</i> <small>DATE</small> <i>4-5-83</i> <small>CHECKED</small> <i>PMA</i> <small>DATE</small> <i>6-6-83</i>	<small>DESIGNED</small> _____ <small>DATE</small> _____ <small>SCALE</small> <i>1" = 200'</i>		
CONTRACT NO. DNT-113 SHEET R-6 OF R-149			



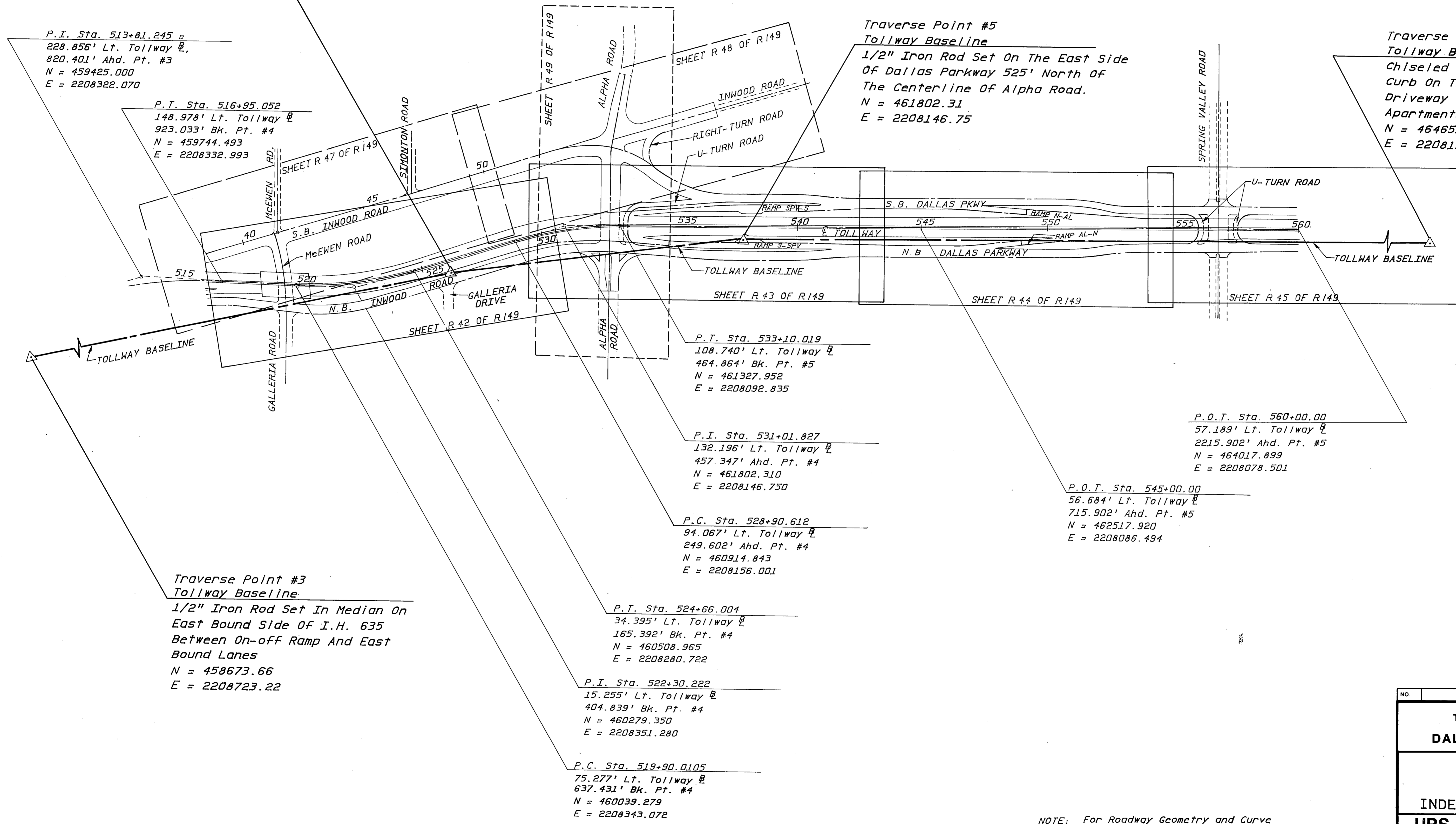
Traverse Point #4
 Tollway Baseline
 Chiseled "X" On East Side Of Dallas
 Parkway In A Driveway To The Marshall
 Field & Company Building At The Galleria.
 N = 460677.88
 E = 2208278.47

P.I. Sta. 513+81.245 =
 228.856' Lt. Tollway $\frac{1}{2}$,
 820.401' Ahd. Pt. #3
 N = 459425.000
 E = 2208322.070

P.T. Sta. 516+95.052
 148.978' Lt. Tollway $\frac{1}{2}$
 923.033' Bk. Pt. #4
 N = 459744.493
 E = 2208332.993

Traverse Point #5
 Tollway Baseline
 1/2" Iron Rod Set On The East Side
 Of Dallas Parkway 525' North Of
 The Centerline Of Alpha Road.
 N = 461802.31
 E = 2208146.75

Traverse Point #6
 Tollway Baseline
 Chiseled "X" On The Top Of The
 Curb On The North Side Of A
 Driveway To The Parkway Plaza
 Apartments #14222 Dallas Parkway
 N = 464651.22
 E = 2208132.53



P.T. Sta. 533+10.019
 108.740' Lt. Tollway $\frac{1}{2}$
 464.864' Bk. Pt. #5
 N = 461327.952
 E = 2208092.835

P.I. Sta. 531+01.827
 132.196' Lt. Tollway $\frac{1}{2}$
 457.347' Ahd. Pt. #4
 N = 461802.310
 E = 2208146.750

P.C. Sta. 528+90.612
 94.067' Lt. Tollway $\frac{1}{2}$
 249.602' Ahd. Pt. #4
 N = 460914.843
 E = 2208156.001

P.T. Sta. 524+66.004
 34.395' Lt. Tollway $\frac{1}{2}$
 165.392' Bk. Pt. #4
 N = 460508.965
 E = 2208280.722

P.I. Sta. 522+30.222
 15.255' Lt. Tollway $\frac{1}{2}$
 404.839' Bk. Pt. #4
 N = 460279.350
 E = 2208351.280

P.C. Sta. 519+90.0105
 75.277' Lt. Tollway $\frac{1}{2}$
 637.431' Bk. Pt. #4
 N = 460039.279
 E = 2208343.072

P.O.T. Sta. 560+00.00
 57.189' Lt. Tollway $\frac{1}{2}$
 2215.902' Ahd. Pt. #5
 N = 464017.899
 E = 2208078.501

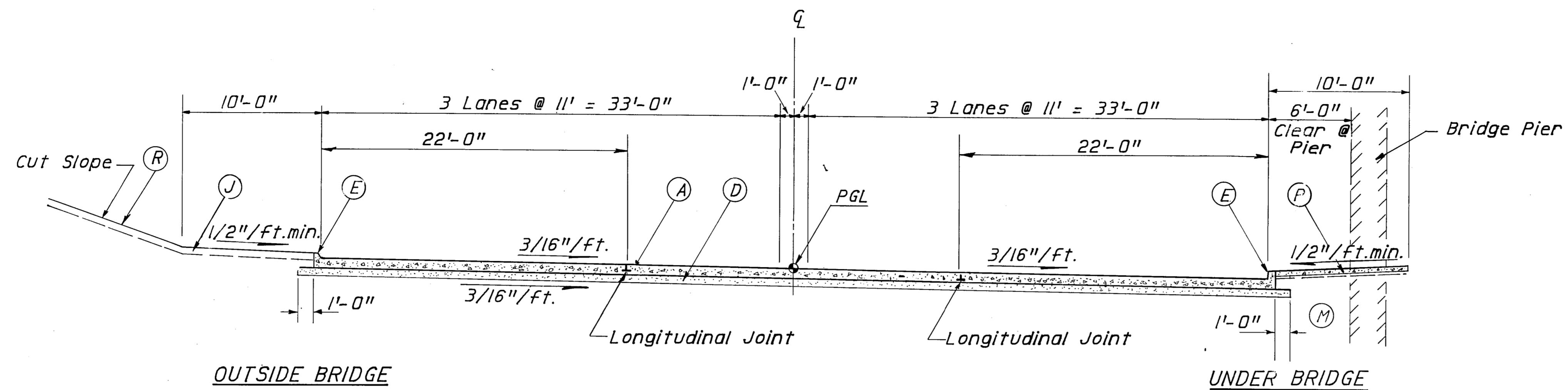
P.O.T. Sta. 545+00.00
 56.684' Lt. Tollway $\frac{1}{2}$
 715.902' Ahd. Pt. #5
 N = 462517.920
 E = 2208086.494

Traverse Point #3
 Tollway Baseline
 1/2" Iron Rod Set In Median On
 East Bound Side Of I.H. 635
 Between On-off Ramp And East
 Bound Lanes
 N = 458673.66
 E = 2208723.22

NOTE: For Roadway Geometry and Curve
 Data, See Sheets No. R16 Thru R18.

AS BUILT PLANS

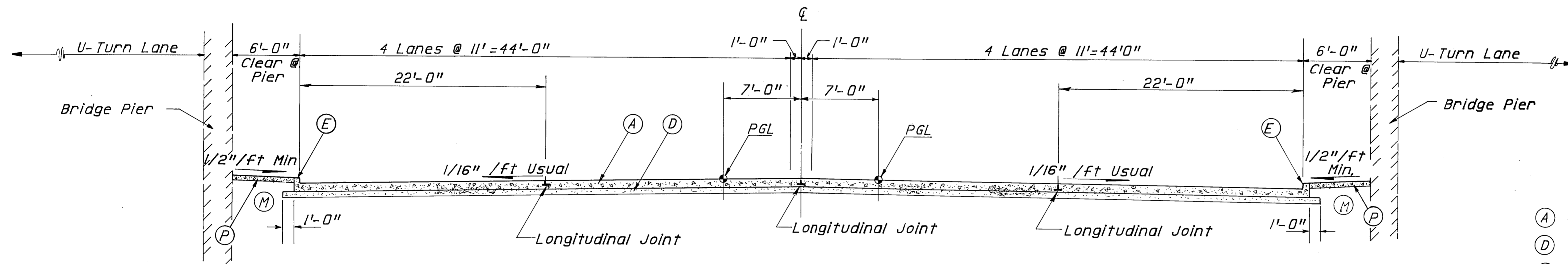
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
CONTROL LAYOUT AND INDEX TO PLAN & PROFILES			
URS ENGINEERS DALLAS, TEXAS			SECTION <u>V</u>
DRAWN	M.M.	DATE	3/83
DESIGNED	N.N.	DATE	3/83
CHECKED	G.D.	DATE	3/83
SCALE	1"=200'		
CONTRACT NO. <u>DNT-113</u> SHEET <u>R-7</u> OF <u>R-149</u>			



OUTSIDE BRIDGE

UNDER BRIDGE

McEWEN ROAD TYPICAL SECTION
(For Variation's To Section See Intersection Detail Sheet)



SPRING VALLEY ROAD TYPICAL SECTION
(For Variation's To Section See Intersection Detail Sheet)

LEGEND

- (A) - Concrete Pavement (Water-Cement Ratio)(8")
- (D) - Lime Treated Subgrade (Density Control)(6")
- (E) - Monolithic Curb, Type "A", 6"
- (J) - Salvaging, Furnishing And Placing Topsoil(4")
- (M) - Embankment (Density Control)
- (P) - Concrete Median (4")
- (Q) - Concrete Curb, Doweled
- (R) - Broadcast Seeding

AS BUILT PLANS

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
TYPICAL SECTIONS McEWEN ROAD & SPRING VALLEY ROAD			
URS ENGINEERS DALLAS, TEXAS			SECTION <u>V</u>
DRAWN	M.M.	DATE 1/83	DESIGNED N.N. DATE 1/83
CHECKED	G.D.	DATE 1/83	SCALE 3/16"/FT
CONTRACT NO. <u>DNT-113</u> SHEET <u>R-12</u> OF <u>R-149</u>			

- Notes:
1. Removal Items are shown on Sheet R-22.
 2. Ditch elevations are shown on the cross sections.
 3. Curb Terminal Details are shown on Standard Drawing No. 11.

C-201 4-5'x5' MULTIPLE BOX CULVERT

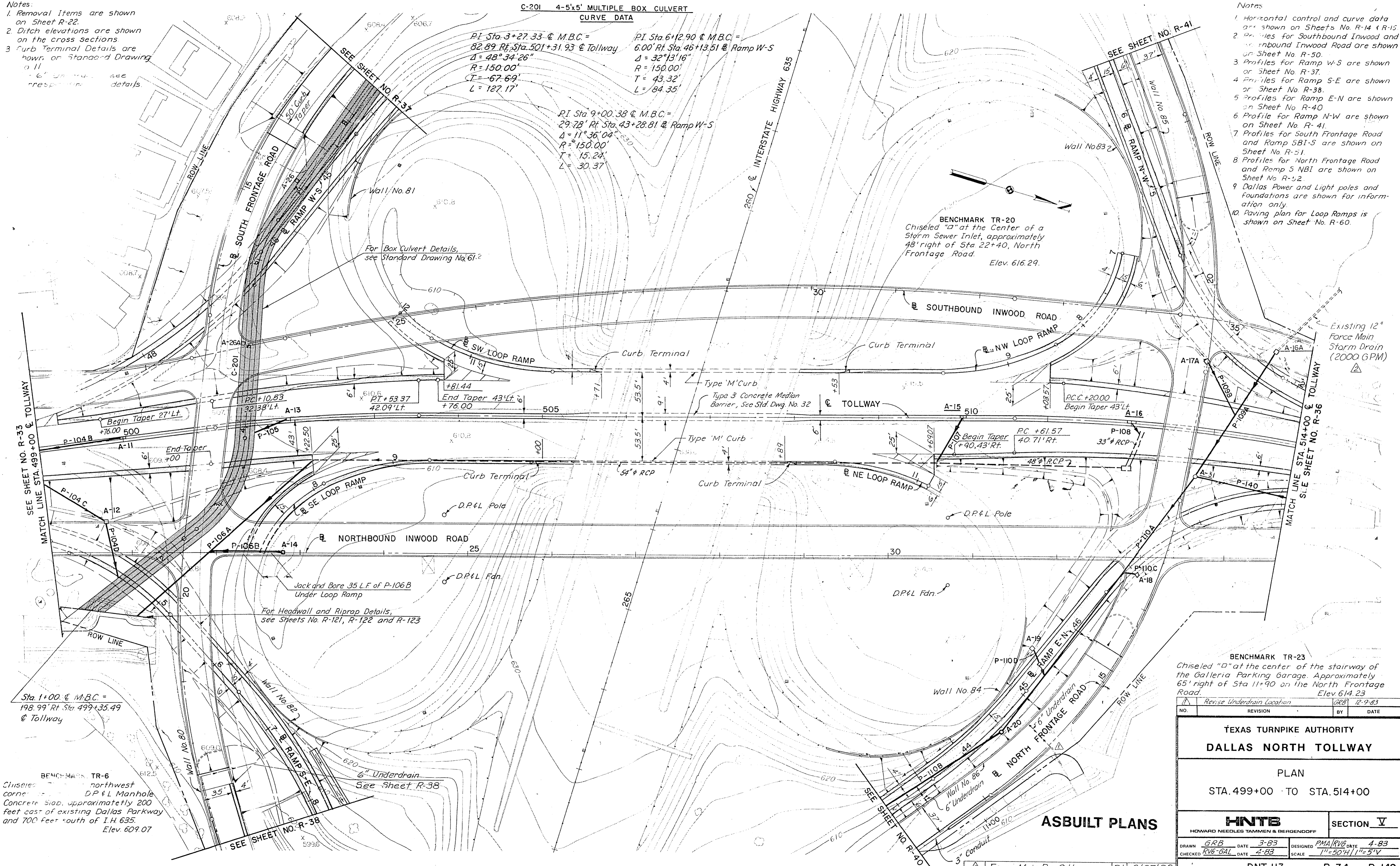
CURVE DATA

PI Sta. 3+27.33 @ M.B.C. = 82.89 Rt. Sta. 501+31.93 @ Tollway
 $\Delta = 48^\circ 34' 26''$
 $R = 150.00'$
 $T = 67.69'$
 $L = 127.17'$

PI Sta. 6+12.90 @ M.B.C. = 6.00 Rt. Sta. 46+13.51 @ Ramp W-S
 $\Delta = 32^\circ 13' 16''$
 $R = 150.00'$
 $T = 43.32'$
 $L = 84.35'$

PI Sta. 9+00.38 @ M.B.C. = 29.78 Rt. Sta. 43+28.81 @ Ramp W-S
 $\Delta = 11^\circ 36' 04''$
 $R = 150.00'$
 $T = 15.24'$
 $L = 30.37'$

- Notes:
1. Horizontal control and curve data are shown on Sheets No. R-14 & R-15.
 2. Profiles for Southbound Inwood and Northbound Inwood Road are shown on Sheet No. R-50.
 3. Profiles for Ramp W-S are shown on Sheet No. R-37.
 4. Profiles for Ramp S-E are shown on Sheet No. R-38.
 5. Profiles for Ramp E-N are shown on Sheet No. R-40.
 6. Profile for Ramp N-W are shown on Sheet No. R-41.
 7. Profiles for South Frontage Road and Ramp SBI-S are shown on Sheet No. R-51.
 8. Profiles for North Frontage Road and Ramp S-NBI are shown on Sheet No. R-52.
 9. Dallas Power and Light poles and foundations are shown for information only.
 10. Paving plan for Loop Ramps is shown on Sheet No. R-60.



Sta. 1+00 @ M.B.C. = 198.99 Rt. Sta. 499+35.49 @ Tollway

BENCHMARK TR-6
 Chiseled "D" at northwest corner of DP&L Manhole. Concrete Slab, approximately 200 feet east of existing Dallas Parkway and 700 feet south of I.H. 635. Elev. 609.07

BENCHMARK TR-23
 Chiseled "D" at the center of the stairway of the Galleria Parking Garage. Approximately 65' right of Sta. 11+90 on the North Frontage Road. Elev. 614.23

NO.	REVISION	BY	DATE
1	Revise Underdrain Location	GRB	12-9-83

TEXAS TURNPIKE AUTHORITY
 DALLAS NORTH TOLLWAY

PLAN
 STA. 499+00 TO STA. 514+00

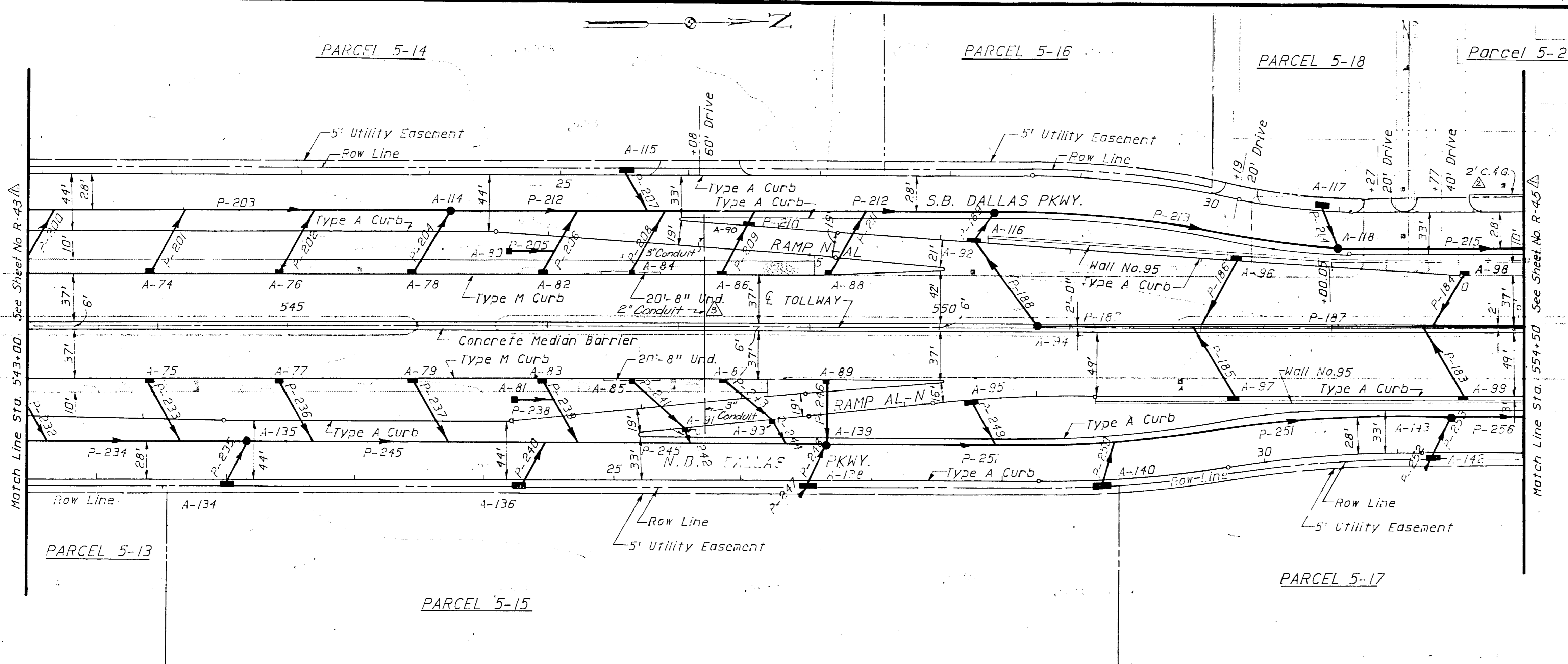
HNTB
 HOWARD NEEDLES TAMMEN & BERGENDOFF SECTION V

DRAWN GRB	DATE 3-83	DESIGNED PMA/RVB	DATE 4-83
CHECKED RVB-GAL	DATE 4-83	SCALE 1"=50'H/1"=5'V	

CONTRACT NO. DNT-113 SHEET R-34 OF R-149

ASBUILT PLANS

Force Main By Others RJ 2/27/89

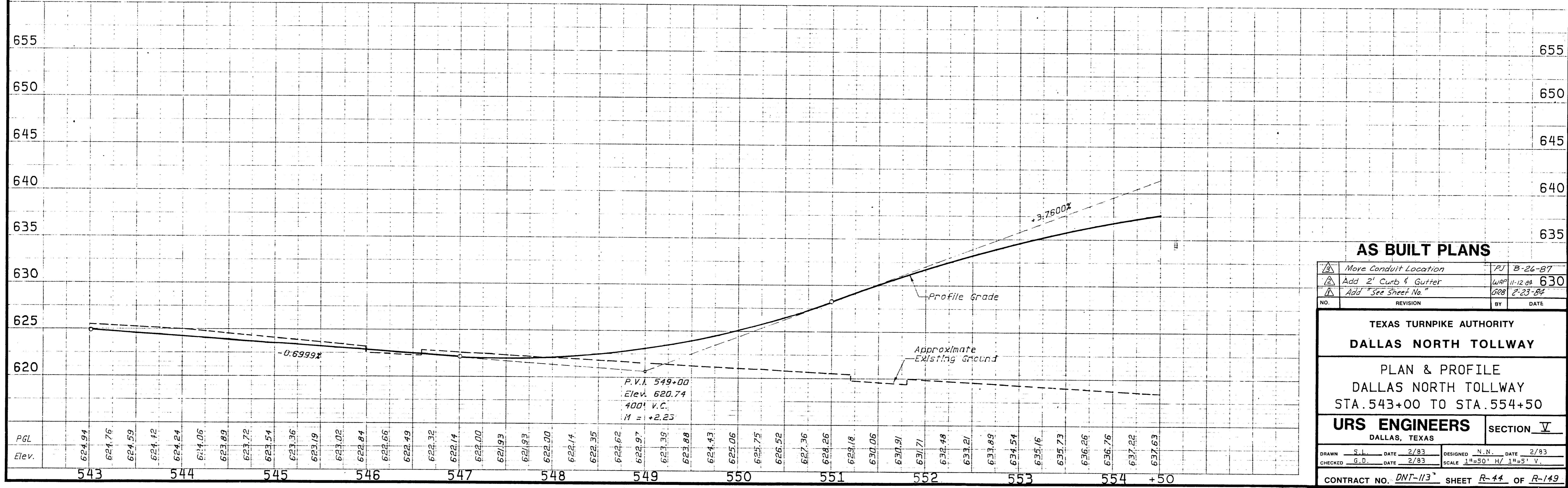


Bench Mark TR #15
Chiseled "□" On The Concrete Base Of The
South East Leg. Tower No. 11N-1W-1306, Approx.
1000' South Of Spring Valley Road and 650'
West Of Dallas Parkway.
Elevation 616.15.

Bench Mark TR #16
Chiseled "□" In The Sidewalk, 18' East Of
Den Home Building, Approx. 400' South Of
Spring Valley Road And 125' West Of Dallas
Parkway.
Elevation 620.96

- Note:
1. For Profile Of NB & SB Dallas Parkway
See Sheet No. R-53 & R-54.
 2. For Profile Of Ramps N-AL & AL-N
See Sheet No. R-57.
 3. For Roadway Geometry See Sheet
No. R-17 & R-18.

Bench Mark TR #2
Chiseled "□" West Side Of 36" Dia. Round Base
Of Sign Support, Approx. 200' East Of Dallas
Parkway And 450' South Of Spring Valley Road.
Elevation 621.66



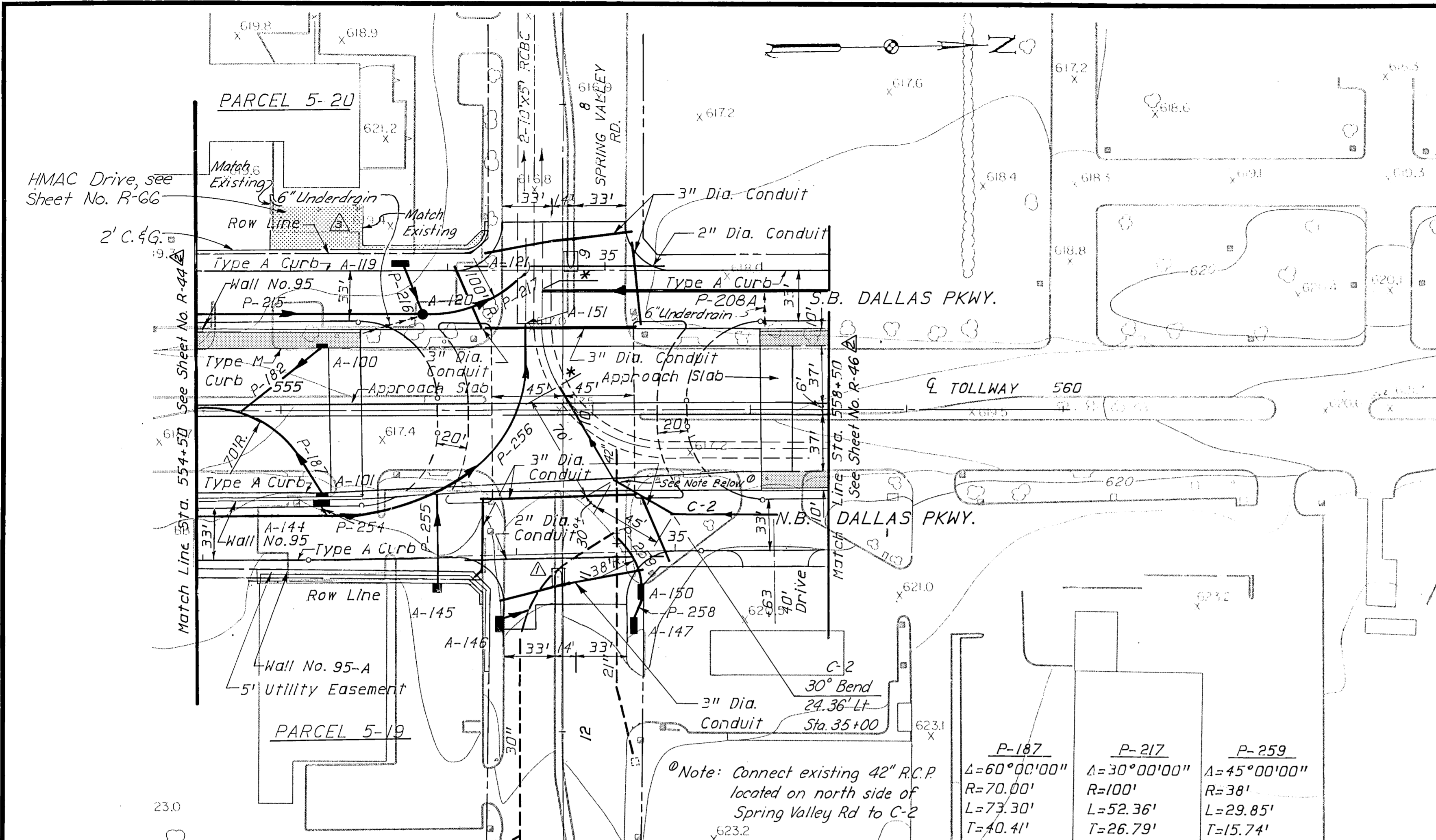
AS BUILT PLANS

△	Move Conduit Location	PJ	8-26-87
△	Add 2' Curb & Gutter	WRP	11-12-88
△	Add "See Sheet No."	GRB	2-23-84
NO.	REVISION	BY	DATE

TEXAS TURNPIKE AUTHORITY
DALLAS NORTH TOLLWAY
PLAN & PROFILE
DALLAS NORTH TOLLWAY
STA. 543+00 TO STA. 554+50

URS ENGINEERS
DALLAS, TEXAS

DRAWN	S.L.	DATE	2/83	DESIGNED	N.N.	DATE	2/83
CHECKED	G.D.	DATE	2/83	SCALE	1"=50' H/ 1"=5' V.		



Bench Mark TR #17
Chiseled "□" in South Side Of 18" Dia. Concrete Base For Street Light, Approx. 325' West Of Dallas Parkway And In The Median Of Spring Valley Road.
Elevation 617.45

- Note:
1. For Profile Of NB & SB Dallas Parkway See Sheet No. R-53 & R-54.
 2. For Spring Valley Road Profile See Sheet No. R-55.
 3. For Spring Valley Intersection Details See Sheet No. R-66.
 4. For Location Of Storm Sewer P-256, and Details Of Storm Sewer Construction See Sheet No. R-98.
 5. For Roadway Geometry See Sheet No. R-17 & R-18.

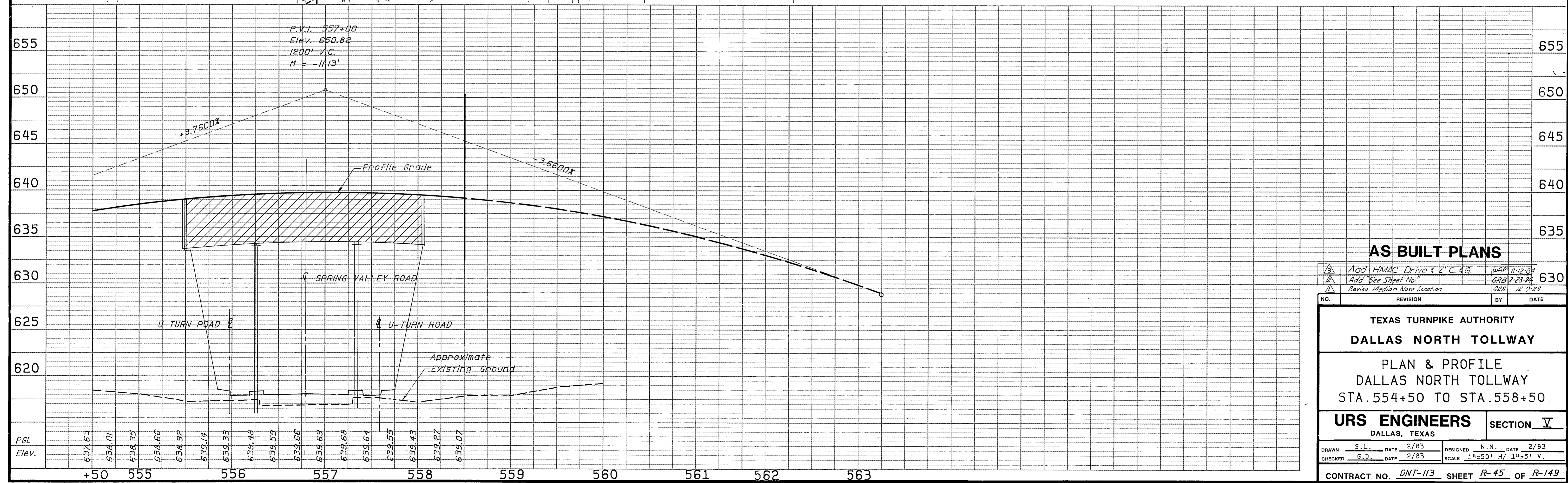
* Connect to existing 10'x5' R.C. Box Culvert

Bench Mark TR #1
Chiseled "□" On The North Side Of Manhole Rim, On The South ROW Line Of Spring Valley Road, Approx. 130' East Of Dallas Parkway.
Elevation 620.85

Bench Mark BM #2
Chiseled "□" On 4th Inlet On South Side Of Spring Valley Road, Approx. 450' East Of Dallas Parkway.
Elevation 624.52

P-187 Δ=60°00'00" R=70.00' L=73.30' T=40.41'	P-217 Δ=30°00'00" R=100' L=52.36' T=26.79'	P-259 Δ=45°00'00" R=38' L=29.85' T=15.74'
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Note: Connect existing 42" R.C.P. located on north side of Spring Valley Rd to C-2



AS BUILT PLANS

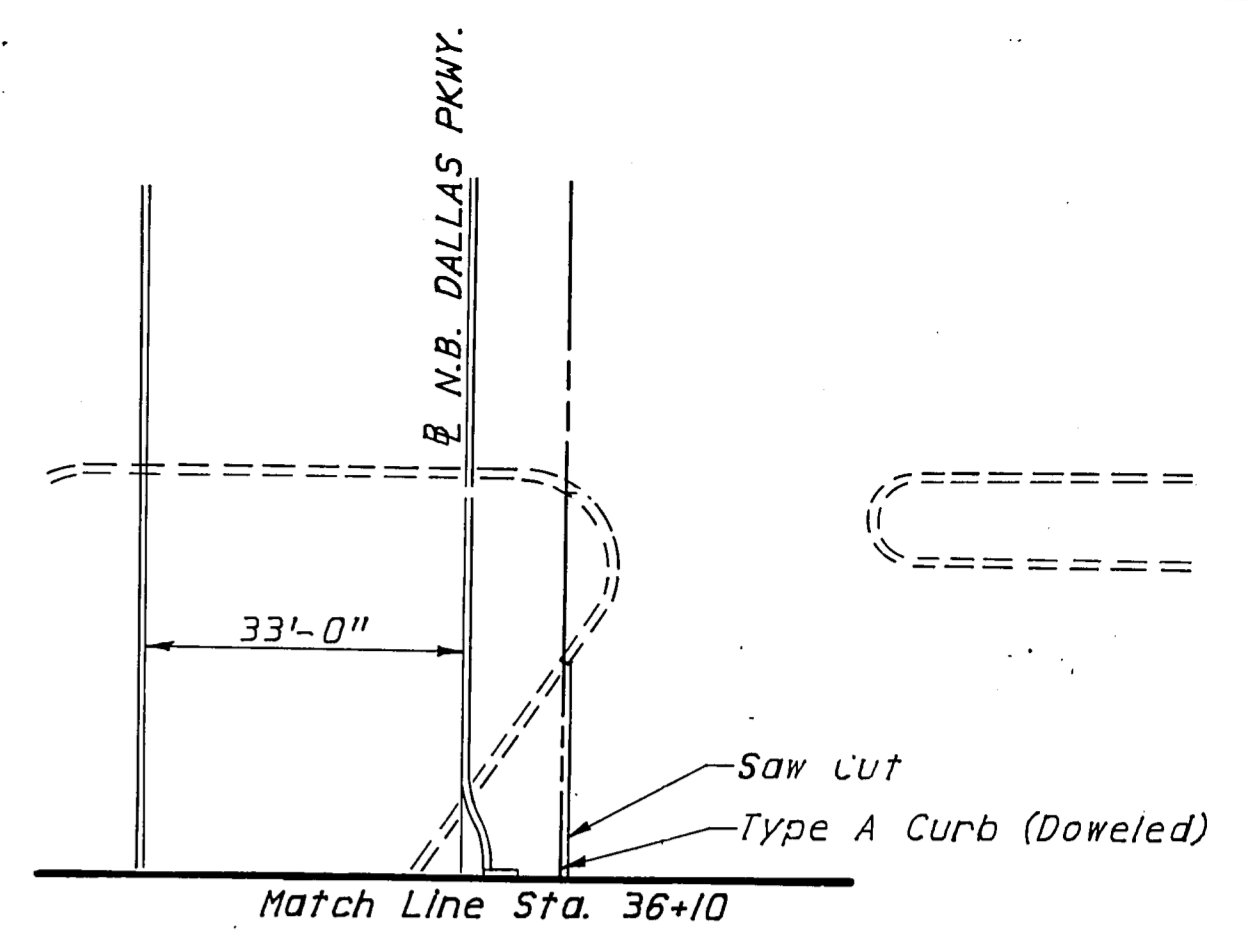
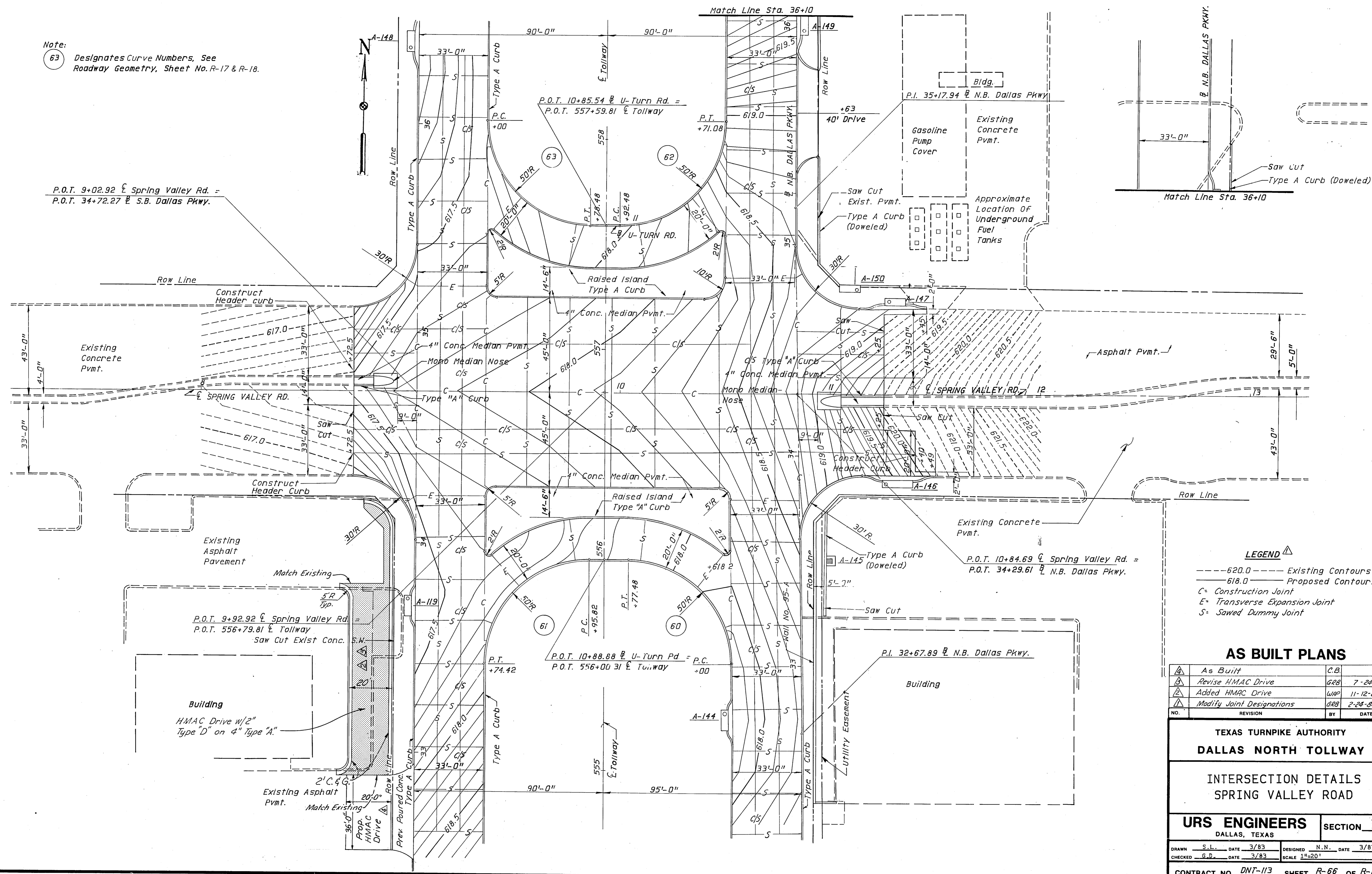
△ Add HMAC Drive 4' 2' C. 4 G.	WAP 11-12-84		
△ Add "See Sheet No"	GRB 2-23-84		
△ Revise Median Nose Location	GRB 12-9-83		
NO.	REVISION	BY	DATE

TEXAS TURNPIKE AUTHORITY
DALLAS NORTH TOLLWAY
PLAN & PROFILE
DALLAS NORTH TOLLWAY
STA. 554+50 TO STA. 558+50

URS ENGINEERS SECTION V
DALLAS, TEXAS

DRAWN S.L. DATE 2/83	DESIGNED N.N. DATE 2/83
CHECKED G.D. DATE 2/83	SCALE 1"=50' H/ 1"=5' V.

Note:
 63 Designates Curve Numbers. See
 Roadway Geometry, Sheet No. R-17 & R-18.



LEGEND

- 620.0 --- Existing Contours
- 618.0 --- Proposed Contours
- C= Construction Joint
- E= Transverse Expansion Joint
- S= Sawn Dummy Joint

AS BUILT PLANS

NO.	REVISION	BY	DATE
1	As Built	C.B.	
2	Revise HMAC Drive	GRB	7-24-85
3	Added HMAC Drive	WRP	11-12-84
4	Modify Joint Designations	GRB	2-24-84

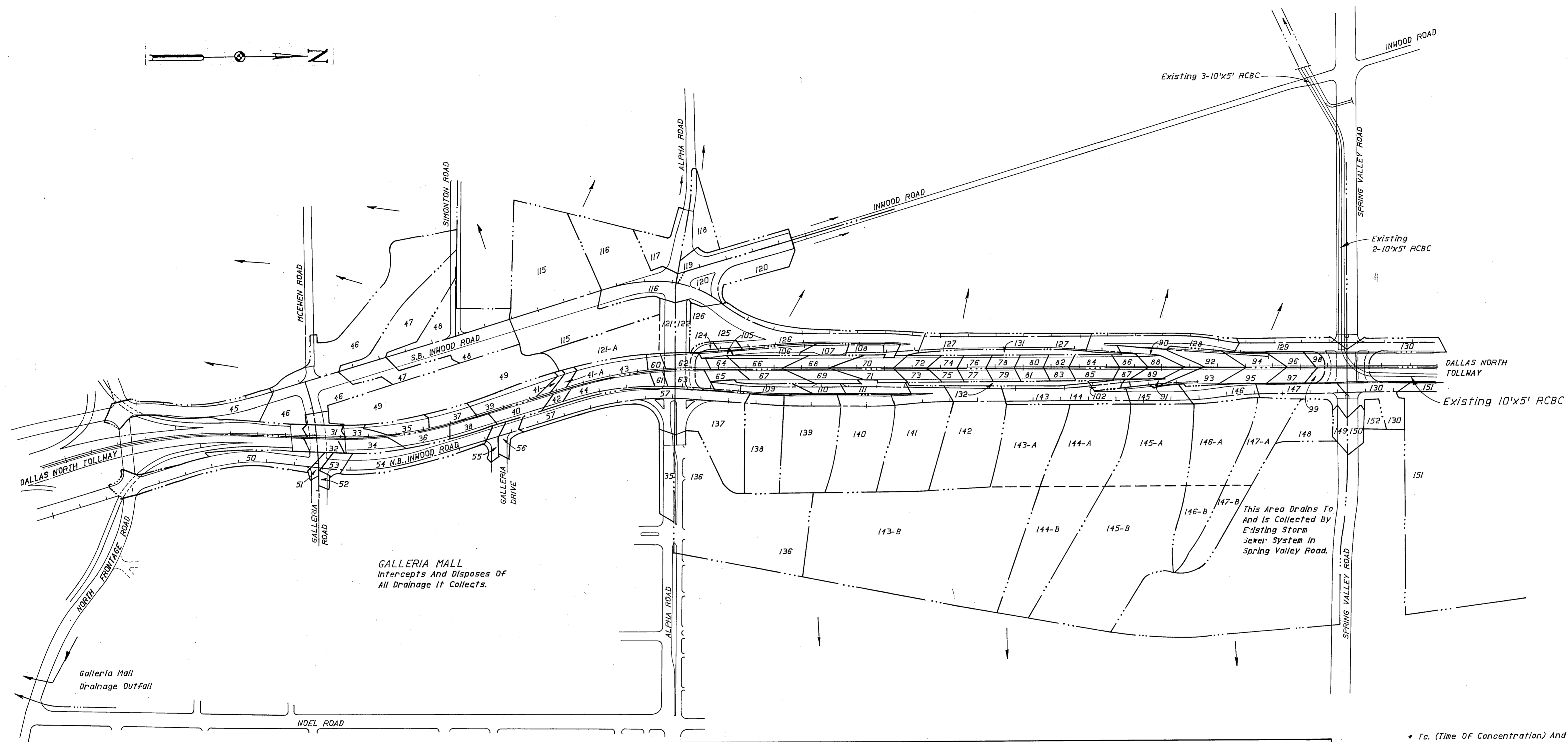
TEXAS TURNPIKE AUTHORITY
 DALLAS NORTH TOLLWAY

INTERSECTION DETAILS
 SPRING VALLEY ROAD

URS ENGINEERS SECTION **V**
 DALLAS, TEXAS

DRAWN S.L.	DATE 3/83	DESIGNED N.N.	DATE 3/83
CHECKED G.D.	DATE 3/83	SCALE 1"=20'	

CONTRACT NO. DNT-113 SHEET R-66 OF R-149



DRAINAGE AREA INDEX																													
D.A. #	Area (Ac)	CA	Tc	Q2	Q5	D.A. #	Area (Ac)	CA	Tc	Q2	Q5	D.A. #	Area (Ac)	CA	Tc	Q2	Q5	D.A. #	Area (Ac)	CA	Tc	Q2	Q5						
31	0.16	0.14	10	0.77		56	0.15	0.13	10		0.73	84	0.19	0.17	10	0.91		116	1.70	1.07	10		5.81	143	0.30	0.27	10		1.45
32	0.14	0.13	10	0.67		57	0.91	0.82	10		4.44	85	0.19	0.17	10	0.91		117	0.42	0.38	10		2.09	143A	1.46	1.31	10		7.12
33	0.11	0.10	10	0.52		60	0.08	0.07	10	0.40		86	0.11	0.10	10	0.52		118	0.37	0.33	10		1.80	143B	6.23	5.61	10*		30.40
34	0.20	0.18	10	0.98		61	0.08	0.07	10	0.37		87	0.08	0.07	10	0.41		119	0.29	0.26	10		1.41	144	0.32	0.29	10		1.56
35	0.23	0.21	10	1.12		62	0.21	0.19	10	1.02		88	0.10	0.09	10	0.49		120	1.01	0.86	10		4.67	144A	1.54	1.39	10		7.55
36	0.24	0.22	10	1.18		63	0.24	0.22	10	1.16		89	0.10	0.09	10	0.49		121	0.23	0.21	10		1.10	144B	3.32	2.99	10*		16.19
37	0.20	0.18	10	0.99		64	0.08	0.07	10	0.40		90	0.19	0.17	10	0.92		121A	0.92	0.46	10		2.49	145	0.36	0.32	10		1.76
38	0.20	0.18	10	0.98		65	0.14	0.13	10	0.70		91	0.10	0.09	10	0.50		122	0.21	0.19	10		1.04	145A	1.98	1.78	10		9.65
39	0.29	0.26	10	1.40		66	0.25	0.22	10	1.20		92	0.25	0.23	10	1.23		124	0.04	0.04	10		0.21	145B	5.50	4.96	10*		26.88
40	0.21	0.19	10	1.03		67	0.21	0.19	10	1.02		93	0.23	0.21	10	1.13		125	0.05	0.05	10		0.24	146	0.34	0.31	10		1.68
41	0.06	0.05	10	0.31		68	0.23	0.21	10	1.12		94	0.18	0.16	10	0.88		126	1.66	1.21	10		6.59	146A	1.33	1.19	10		6.47
41A	0.08	0.07	10	0.37		69	0.23	0.21	10	1.12		95	0.20	0.18	10	0.98		127	0.82	0.74	10		4.03	146B	0.66	0.59	10*		3.22
42	0.09	0.08	10	0.42		70	0.19	0.17	10	0.93		96	0.13	0.12	10	0.64		128	0.82	0.74	10		3.99	147	0.36	0.32	10		1.73
43	0.35	0.31	10	1.69		71	0.18	0.16	10	0.86		97	0.15	0.13	10	0.73		129	0.48	0.43	10		2.33	147A	0.83	0.75	10		4.30
44	0.41	0.37	10	2.02		72	0.15	0.14	10	0.75		98	0.19	0.17	10	0.94		130	0.91	0.82	10		4.43	147B	0.58	0.52	10*		2.83
45	0.57	0.47	10		2.55	73	0.15	0.14	10	0.75		99	0.19	0.17	10	0.94		131	0.27	0.14	10		0.74	148	1.35	1.22	10		6.61
46	2.68	1.52	10		8.24	74	0.12	0.11	10	0.57		102	0.06	0.05	10	0.31		132	0.23	0.12	10		0.83	149	0.16	0.14	10		0.78
47	1.84	1.10	10		5.98	75	0.12	0.11	10	0.57		105	0.07	0.06	10	0.32		135	0.34	0.31	10		1.68	150	0.16	0.14	10		0.78
48	1.53	1.15	10		6.25	76	0.11	0.10	10	0.56		106	0.22	0.20	10	1.08		136	3.26	1.73	10		9.38	151	4.20	3.78	10		20.46
49	2.19	1.38	10		7.48	77	0.11	0.10	10	0.56		107	0.13	0.12	10	0.63		137	1.47	1.33	10		7.19	152	0.21	0.19	10		1.02
50	0.59	0.53	10		2.89	78	0.11	0.10	10	0.56		108	0.16	0.14	10	0.78		138	1.25	1.13	10		6.11					0.78	
51	0.07	0.06	10		0.33	79	0.11	0.10	10	0.56		109	0.26	0.23	10	1.25		139	1.84	1.66	10		8.95					0.78	
52	0.06	0.05	10		0.29	80	0.11	0.10	10	0.56		110	0.12	0.11	10	0.59		140	1.70	1.53	10		8.29					0.78	
53	0.16	0.14	10		0.81	81	0.11	0.10	10	0.56		111	0.21	0.19	10	1.01		141	1.97	1.78	10		9.63					0.78	
54	0.72	0.65	10		3.50	82	0.11	0.10	10	0.56		115	3.79	2.80	10	14.08		142	1.84	1.65	10		8.96					0.78	
55	0.13	0.12	10		0.66	83	0.11	0.10	10	0.56																			

* Tc (Time Of Concentration) And C. (Runoff Coefficient) Reflects The Future Condition Of A Developed Area.

AS BUILT PLANS

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
DRAINAGE AREA MAP			
URS ENGINEERS DALLAS, TEXAS			SECTION V
DRAWN	S.L.	DATE	3/83
DESIGNED	N.N.	DATE	3/83
CHECKED	G.D.	DATE	4/83
SCALE	1"=200'		
CONTRACT NO. DNT-113 SHEET R-71 OF R-149			

MANHOLES AND INLETS

SEWERS

CODE	LOCATION	DESCRIPTION	ELEV.	OUTLET F.L.	STRUCTURE DEPTH (FT.)	REMARKS	CODE	FROM	TO	SIZE (IN.)	LENGTH (FT.)	GRADE (%)	INVERT INLET	ELEVATION * DISCHARGE	TYPE OF PIPE	REMARKS
A-1	11+71 S.B. Inwood Rd., 3.9' Lt.	Existing M.H.	604.00	595.91	—		P-100A	A-4	A-1	24	397 [△]	0.78	600.00	596.94	C.I. IV	
A-2	12+00 S.B. Inwood Rd., 33.0' Rt.	Type "CDR"-5' Inlet	604.06	598.53	5.95		P-100B	A-5	A-4	24	515 [△]	0.20	601.00	600.00	C.I. V	
A-3	3+03 Ramp SBI-S, 0.0' [△]	Type "CDR"-5' Inlet	617.39	608.75	9.06		P-100C	A-2	P-100A	15	38	3.00	598.53	597.39	C.I. III	
A-4	15+62 S.B. Inwood Rd., 37.0' Rt.	M.H. (Type III)	618.19	600.00	17.94		P-100D	A-3	A-4	15	48	14.58	608.75	601.75	C.I. III	
A-5	499+00 Tollway, 64.0' Lt.	Special "Y" Inlet	604.50	601.00	3.50		P-100E	Ex. 15" RCP	P-100B	15	64	1.03	601.65	600.99	C.I. V	Includes Radius Pipe
A-6	10+50 N.B. Inwood Rd., 37.0' Lt.	Type "CDR"-5' Inlet	604.57	600.57	4.42		P-101	A-6	Ex. 15" R.C.P	15	10	0.80	600.57	600.49	C.I. III	
A-7	8+50 Ramp S-NBI, 19.0' Lt.	Type "CDR"-5' Inlet	614.47	610.47	4.42		P-102	A-8	A-7	15	144	0.94	611.82	610.47	C.I. III	
A-8	10+00 Ramp S-NBI, 0.0'	Type "CDR"-5' Inlet	615.82	611.82	4.42		P-103	A-7	S.E. Channel	15	97 [△]		610.47	602.44	C.I. III	62' @ 6.27%, 119' @ 3.48%
A-9	497+50 Tollway, 3.0' Rt.	Type "M" Inlet, 3 Grates	607.70	604.11	4.00		P-104A	A-9	A-10	15	92	0.71	604.11	603.46	C.I. III	
A-10	498+50 Tollway, 3.0' Rt.	Type "M" Inlet, 2 Grates	607.30	603.21	4.50		P-104B	A-11	A-10	15	144	0.82	604.64	603.46	C.I. III	
A-11	500+00 Tollway, 3.0' Lt.	Type "M" Inlet, 2 Grates	608.22	604.64	4.00		P-104C	A-10	A-12	18	148	1.16	603.21	601.50	C.I. III	
A-12	4+00 Ramp S-E, 44.0' Lt.	Special "Y" Inlet	606.00	600.50	5.50		P-104D	A-12	C-201	30	62	0.80	600.50	600.00	C.I. III	
A-13	502+00 Tollway, 3.0' Lt.	Type "M" Inlet, 3 Grates	609.79	606.29	3.92		P-105	A-13	C-201	15	44 [△]	15.74	606.29	599.68	C.I. III	
A-14	5+52 Ramp S-E, 150.0' Lt.	Special "Y" Inlet	606.58	603.08	3.50	Replace Existing Inlet.	P-106A	Ex. 54" RCP	S.E. Channel	54	277 [△]	0.68	600.52	598.60	C.I. III	Jack and bore 35'
A-15	510+00 Tollway, 3.0' Lt.	Type "M" Inlet, 2 Grates	616.20	612.87	3.75		P-106B	A-14	P-106A	24	85	2.86	603.08	600.65	C.I. III	
A-16	512+00 Tollway, 3.0' Lt.	Type "M" Inlet, 3 Grates	620.18	612.10	8.50		P-107	A-15	Ex. 48" RCP	15	60	6.60	612.87	608.91	C.I. III	
A-16A	2+45 Ramp N-W, 21' Rt.	Special "Y" Inlet	618.00	613.00	5.00		P-108	A-16	Ex. 33" RCP	15	16	2.81	612.10	611.65	C.I. III	
A-17A	3+00 Ramp N-W, 42.0' Lt.	Standard "Y" Inlet	615.60	612.70	2.90		P-109A	A-16A	A-31	33	176	1.40	613.00	610.54	C.I. III	
A-18	47+00 Ramp E-N, 12.5' Rt.	Standard "Y" Inlet	614.50	611.00	3.50		P-109B	A-17A	P-109A	15	68	0.29	612.70	612.50	C.I. III	
A-19	45+50 Ramp E-N, 27.0' Lt.	Standard "Y" Inlet	611.77	608.27	3.50		P-110A	A-31	A-20	60	380	1.19	608.29	603.77	C.I. III	
A-20	44+50 Ramp E-N, 10.0' Rt.	M.H. (Type I)	613.50	603.77	9.71		P-110B	A-20	C-202	60	518 [△]	0.46	603.77	601.52	C.I. III	
A-21	39+94 Ramp E-N, 16.5' Rt.	Special "Y" Inlet	607.72	604.22	3.50		P-110C	A-18	P-110A	15	16	15.75	611.00	608.48	C.I. III	
A-21A	39+00 Ramp E-N, 18.0' Rt.	Standard "Y" Inlet	608.00	602.33	5.67		P-110D	A-19	P-110A	15	32	5.09	608.27	606.64	C.I. III	
A-22	40+00 Ramp E-N, 39.0' Lt.	Special "Y" Inlet	607.57	604.07	3.50		P-111	A-22	P-110B	24	10	9.20	604.07	603.15	C.I. III	
A-23	39+25 Ramp E-N, 27.0' Lt.	Special "Y" Inlet	610.25	606.75	3.50		P-112	A-21	C-202	24	26	9.88	604.22	601.65	C.I. III	
A-24	40+44 Ramp W-S, 67.0' Rt.	Existing M.H.	607.80	600.62	—	Raise Ex. M.H. to Elev. Shown.	P-113	A-23	Ex. 3-8x7" MBC	18	12 [△]	4.69	606.75	606.00	C.I. III	
A-25	12+00 Ramp S-E, 17.0' Rt.	Special "Y" Inlet	606.31	602.81	3.50		P-114	N.E. Hdwl. 1	A-21A	24	672 [△]	0.80	607.60	602.33	C.I. III	
A-26	7+05 C-201 8.38' Lt.	Box "Y" Inlet	608.00	605.31	2.70	1) See Details, Sheet No. R-69	P-114A	A-21A	C-202	24	26	2.27	602.33	601.74	C.I. III	
A-26A	5+00 C-201 8.38' Lt.	Box "Y" Inlet	606.00	604.87	1.13	1) See Details, Sheet No. R-69	P-115	A-25	Ex. 66" RCP	24	16	11.56	602.81	600.96	C.I. III	
A-27	42+00 Ramp W-S, 30.0' Rt.	Special "Y" Inlet	606.20	602.70	3.50		P-117	A-27	S.W. Channel	24	48	1.00	602.70	602.22	C.I. III	
A-28	9+55 C-201 2.79' Lt.	Box "Y" Inlet	606.40	605.88	0.52	1) See Details, Sheet No. R-69	P-118	A-24	S.W. Channel	48	24	0.20	600.62	600.57	C.I. III	
A-29	9+50 Ramp N-W, 28.0' Rt.	Standard "Y" Inlet	613.90	610.40	3.50		P-120A	N.W. Hdwl. 2	N.W. Hdwl. 3	36	116 [△]	0.66	606.74	606.00	C.I. III	
A-30	9+00 Ramp N-W, 22.0' Rt.	Standard "Y" Inlet	610.40	607.30	3.10		P-120B	A-29	P-120A	15	38 [△]	11.43	610.40	607.20	C.I. III	
A-32A	51+00 Ramp E-N, 0.0'	Type "C"-6' Inlet	633.84	630.34	3.17		P-121	Ex. 42" RCP	N.W. Hdwl. 3	42	99 [△]	0.28	606.27	606.00	C.I. III	
A-200	South Galleria Dr., 14.0' Lt.	Ex. San. Sew. M.H.	613.70			2) Raise Ex. M.H. to Elev. Shown	P-122A	Ex. 42" RCP	N.W. Hdwl. 3	42	95 [△]	0.29	606.27	606.00	C.I. III	
A-201	South Galleria Dr., 5.0' Rt.	Ex. Storm Sew. M.H.	613.55			2) Raise Ex. M.H. to Elev. Shown	P-122B	A-30	P-122A	18	12	1.00	606.90	606.78	C.I. III	
A-202	South Galleria Dr., 20.5' Lt.	Ex. Elec. M.H.	614.25			2) Raise Ex. M.H. to Elev. Shown	P-140A	A-32A	A-32	15	50	8.00	630.34	626.34	C.I. III	
A-203	South Galleria Dr., 8.0' Lt.	Ex. Water Valve	614.25			2) Raise Ex. W.V. Cover to Elev. Shown	P-765A	765A	765 L	12	21	1.43	614.73	614.43	C.I. III	
A-204	South Galleria Dr., 15.0' Lt.	Ex. Water Valve	613.95			2) Raise Ex. W.V. Cover to Elev. Shown	P-771A	771A	P-771	12	19	10.63	613.60	611.58	C.I. III	
765A	484+60 Tollway, 52' Lt.	Type "C"-3' Inlet	618.86	614.73	4.21	Inlet to be capped at Elev. 616.80	P-769A	769A	769 L	12	21	1.25	614.66	614.40	C.I. III	
771A	485+21 Tollway, 52' Lt.	Type "C"-3' Inlet	618.59	613.60	5.07	Inlet to be capped at Elev. 616.00	P-205A	A-205	Ex. 54" R.C.P	15	5	15.00	607.51	606.76	C.I. III	
769A	485+83 Tollway, 52' Lt.	Type "C"-3' Inlet	618.99	614.66	4.41	Inlet to be capped at Elev. 616.75										
A-205	11+73 Galleria Garage Entrance 0.0'	Type "CDR"-5' Inlet	614.80	607.51	7.71											

- Notes: 1. See Sheet No. R-69 for Inlet Capping Details.
 2. The work involved in raising the frame, cover and water valves of the existing manholes is specified in Special Section 750.
 3. The work involved in connecting new 24" R.C.P. to the existing manhole shall be paid for under Item 479 & S.P. adjusting manholes.

* AT STRUCTURE

AS BUILT PLANS

As Built		C.B.	
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
DRAINAGE SUMMARY			
HNTB HOWARD NEEDLES TAMMEN & BERGENDOFF		SECTION <u>V</u>	
DRAWN <u>Ram</u>	DATE <u>5-9-83</u>	DESIGNED <u>GAL</u>	DATE <u>3-83</u>
CHECKED <u>RLV</u>	DATE <u>6-23-83</u>	SCALE	
CONTRACT NO. <u>DNT-113</u> SHEET <u>R-72</u> OF <u>R-149</u>			

MANHOLES AND INLETS

SEWERS

CODE	LOCATION	DESCRIPTION	ELEV.	OUTLET F.L.	STRUCTURE DEPTH (FT.)	REMARKS	CODE	FROM	TO	SIZE (IN.)	LENGTH (FT.)	GRADE (%)	INVERT ELEVATION *		TYPE OF PIPE	REMARKS
													INLET	DISCHARGE		
A-470	44+10 N.B. Dallas Pkwy., 2' Rt	Type "CDR" - 10' Inlet	623.21	619.21	4.0		P-206A	P-700	P-207A	33'	747	0.30	614.90	612.68	CI III	
A-480	42+00 N.B. Dallas Pkwy., 2' Rt.	Type "CDR" - 14' Inlet	622.58	618.58	4.0		P-207A	P-206A	P-208A	36	52	0.77	612.43	612.04	CI III	
A-490	558+75 Tollway, 40' Lt.	Type "C" - 3' Inlet	638.25	634.33	4.0		P-208A	P-207A	Exist. 10x5' Box C.	48	152	0.77	611.04	609.65	CI III	
A-500	558+81 Tollway, 40' Rt.	Type "C" - 3' Inlet	638.19	634.27	4.0		P-470	A-470	C-2	21	22	11.09	619.21	616.77	CI III	
A-510	559+65 Tollway, 40' Lt.	Type "C" - 3' Inlet	637.07	633.15	4.0		P-470A	Exist. 27" R.C.P.	C-2	27	12	14.83	617.90	616.12	CI III	
A-520	559+71 Tollway, 40' Rt.	Type "C" - 3' Inlet	636.97	633.05	4.0		P-480	A-480	C-2	21	22	12.95	618.58	615.73	CI III	
A-530	560+55 Tollway, 40' Lt.	Type "C" - 3' Inlet	635.39	631.47	4.0		P-490	A-490	A-590	15	576		634.33	620.51	CI III	90° Bend, 76' @ 1.01%, 500' @ 2.62%
A-540	560+61 Tollway, 40' Rt.	Type "C" - 3' Inlet	635.26	631.34	4.0		P-500	A-500	P-490	15	41	1.03	634.27	633.85	CI III	"T" Connection
A-550	561+50 Tollway, 40' Lt.	Type "C" - 6' Inlet	633.08	629.16	4.0		P-510	A-510	P-490	15	41	2.52	633.15	632.12	CI III	"T" Connection
A-560	561+56 Tollway, 40' Rt.	Type "C" - 6' Inlet	632.91	628.99	4.0		P-520	A-520	P-490	15	41	2.59	633.05	631.99	CI III	"T" Connection
A-570	562+10 Tollway, 40' Rt.	Type "C" - 3' Inlet	631.46	627.54	4.0		P-530	A-530	P-490	15	41	4.11	631.47	629.79	CI III	"T" Connection
A-580	563+00 Tollway, 40' Lt.	Type "C" - 6' Inlet	628.28	624.36	4.0		P-540	A-540	P-490	15	41	4.17	631.34	629.63	CI III	"T" Connection
A-590	564+13 Tollway, 3' Rt.	Type "M" Inlet, 2 Grates	625.38	620.41	5.5		P-550	A-550	P-490	15	41	4.54	629.16	627.30	CI III	"T" Connection
A-600	41+00 N.B. Dallas Pkwy., 2' Rt.	Type "CDR" - 10' Inlet	622.28	618.28	4.0		P-560	A-560	P-490	15	41	4.51	628.99	627.14	CI III	"T" Connection
A-610	39+85 N.B. Dallas Pkwy., 2' Rt.	Type "CDR" - 14' Inlet	621.94	617.94	4.0		P-570	A-570	P-490	15	41	4.42	627.54	625.73	CI III	"T" Connection
A-620	39+30 N.B. Dallas Pkwy., 2' Rt.	Type "CDR" - 10' Inlet	621.77	617.77	4.0		P-580	A-580	P-490	15	41	2.42	624.36	623.37	CI III	"T" Connection
A-630	38+00 N.B. Dallas Pkwy., 2' Rt.	Type "CDR" - 14' Inlet	621.35	617.35	4.0		P-590	A-590	C-2	18	65	7.48	620.41	615.55	CI III	
A-640	36+88 N.B. Dallas Pkwy., 10.5' Rt.	Type "CDR" - 14' Inlet	621.05	617.05	4.0		P-600	A-600	C-2	21	22	13.77	618.28	612.25	CI III	
A-650	36+25 N.B. Dallas Pkwy., 2' Rt.	Type "CDR" - 10' Inlet	619.90	615.90	4.0		P-610	A-610	C-2	21	22	14.73	617.94	614.70	CI III	
A-660	567+25 Tollway, 3' Rt.	Type "M" Inlet, 3 Grates	622.44	618.86	4.0		P-620	A-620	C-2	21	22	15.14	617.77	614.44	CI III	
A-670	567+25 Tollway, 40' Lt.	Type "C" - 8' Inlet	620.26	615.84	5.0		P-630	A-630	C-2	21	45	15.95	617.35	613.84	CI III	
A-680	566+60 Tollway, 3' Rt.	Type "M" Inlet, 3' Grate	622.27	618.69	4.0		P-640	A-640	C-2	21	27	13.78	617.05	613.33	CI III	
A-690	566+60 Tollway, 40' Lt.	Type "C" - 8' Inlet	620.08	615.56	4.5		P-650	A-650	C-2	21	22	12.95	615.90	613.05	CI III	
A-700	44+60 S.B. Dallas Pkwy., 2' Lt.	Type "CDR" - 10' Inlet	620.58	616.58	4.0		P-660	A-660	A-670	15	36	6.15	618.86	616.34	CI III	
A-710	566+00 Tollway, 3' Lt.	Type "M" Inlet, 1 Grate	622.45	618.87	4.0		P-670	A-670	A-690	21	57	0.32	615.84	615.66	CI III	
A-720	566+00 Tollway, 40' Lt.	Type "C" - 6' Inlet	620.39	616.22	4.5		P-680	A-680	A-690	15	40	6.17	618.69	616.16	CI III	
A-730	37+00 S.B. Dallas Pkwy., 2' Lt.	Type "CDR" - 10' Inlet	617.34	613.34	4.0		P-690	A-690	P-206A	21	41	0.41	615.56	615.39	CI III	
A-740	36+50 S.B. Dallas Pkwy., 2' Lt.	Type "CDR" - 10' Inlet	617.11	613.11	4.0		P-700	A-700	P-206A	21	42	1.62	616.58	615.90	CI III	
A-280	41+62 N.B. Dallas Pkwy., 2 1/2' Lt.	M.H., Special	622.84			For Details, See Sheet R99	P-710	A-710	A-720	15	41	5.85	618.87	616.47	CI III	
							P-720	A-720	P-206	18	41	2.15	616.22	615.34	CI III	
							P-730	A-730	P-207A	21	17	1.76	613.34	613.04	CI III	
							P-740	A-740	P-208A	21	17	5.71	613.11	612.14	CI III	

AS BUILT PLANS

As Built	C.B.
Revised Pipe Number Designations	2/88 12-9-83
NO.	REVISION BY DATE

TEXAS TURNPIKE AUTHORITY
DALLAS NORTH TOLLWAY

DRAINAGE SUMMARY

HNTB
HOWARD NEEDLES TAMMEN & BERGENDOFF

SECTION V

DRAWN G.R.B. DATE 7-83	DESIGNED DATE
CHECKED G.A.L. DATE 7-83	SCALE

INLETS AND MANHOLES

CODE	LOCATION	DESCRIPTION	ELEV.	OUTLET F.L.	DEPTH (FT.)	REMARKS
A-31	512+83 Tollway, 55'Rt.	Type I Manhole	619.00	608.29	10.46'	With Cone Top
A-32	50+58 Ramp E-N, 52'Rt.	Type II Manhole	631.83	612.63	18.12	With Cone Top
A-33	39+15 N.B. Inwood Rd.	Type CDR-10' Inlet	620.95	617.45	3.50'	
A-34	39+57 N.B. Inwood Rd, 37'Rt.	Existing Inlet				
A-35	40+28 N.B. Inwood Rd, 23'Rt.	Existing Inlet				
A-36	40+65 N.B. Inwood Rd.	Type CDR-10' Inlet	621.58	618.08	3.50'	
A-37	41+00 N.B. Inwood Rd, 16'Lt.	Type III Manhole	622.02	617.56	4.21'	With Flat Top
A-38	43+83 N.B. Inwood Rd, 28'Lt.	Type III Manhole	623.72	619.69	3.78'	With Flat Top
A-39	523+25 Tollway, 2.25'Rt.	Type III Manhole	644.76	621.63	22.88'	With Cone Top
A-40	523+40 Tollway, 40'Lt.	Type C-6' Inlet	642.49	638.57	4.00'	
A-41	524+05 Tollway, 3'Rt.	Type M Inlet (1 Grate)	643.91	637.33	7.00'	
A-42	524+15 Tollway, 40'Lt.	Type C Inlet	642.22	638.30	4.00'	
A-43	524+80 Tollway, 3'Rt.	Type M Inlet (2 Grate)	643.65	638.07	6.00'	
A-44	524+90 Tollway, 40'Lt.	Type C-6' Inlet	642.49	638.57	4.00'	
A-45	525+55 Tollway, 3'Rt.	Type M Inlet (1 Grate)	643.92	639.84	4.50'	
A-46	527+40 Tollway, 3'Lt.	Type M Inlet (1 Grate)	646.82	641.74	5.50'	
A-47	527+40 Tollway 40'Rt.	Type C-6' Inlet	646.43	642.51	4.00'	
A-48	527+90 Tollway, 3'Lt.	Type M Inlet (1 Grate)	648.01	643.43	5.00'	
A-49	528+15 Tollway, 40'Rt.	Type C-12' Inlet	647.70	643.78	4.00'	
A-50	528+50 Tollway, 3'Lt.	Type M Inlet (1 Grate)	649.26	646.18	3.50'	
A-51	47+35 N.B. Inwood Rd.	Type CDR-10' Inlet	625.16	621.66	3.5'	
A-52	40+14 S.B. Inwood Rd., 10'Rt.	Type CDR-10' Inlet	622.69	619.19	3.5'	
A-53	40+67 S.B. Inwood Rd., 10'Rt.	Type CDR-14' Inlet	622.23	618.23	4.0'	
A-54	42+45 S.B. Inwood Rd.	Type CDR-10' Inlet	623.83	620.33	3.5'	
A-55	44+20 S.B. Inwood Rd.	Type CDR-10' Inlet	625.43	621.93	3.5'	
A-56	9+63 Galleria Rd., 80.5Lt.	Std. Y Inlet	623.11	619.11	4.00'	
A-57	39+97 S.B. Inwood Rd, 10'Rt.	Type III Manhole	623.35	616.63	6.47'	With Flat Top
A-60	7+65 Ramp SPV-S, 19'Rt.	Type C-3' Inlet	648.30	644.38	4.00'	
A-61	534+85 Tollway, 2'Lt.	Type M Inlet (1 Grate)	648.18	644.10	4.50'	
A-62	535+25 Tollway, 40'Rt.	Type C-6' Inlet	646.67	642.75	4.00'	
A-63	537+25 Tollway, 40'Lt.	Type C-10' Inlet	640.46	636.54	4.00'	
A-64	537+25 Tollway, 40'Rt.	Type C-8' Inlet	640.46	636.54	4.00'	
A-65	539+25 Tollway, 40'Lt.	Type C-10' Inlet	632.65	628.73	4.00'	
A-66	539+25 Tollway, 40'Rt.	Type C-10' Inlet	632.65	628.73	4.00'	
A-67	540+25 Tollway, 2.25'Lt.	Type III Manhole	629.95	622.43	7.27'	With Cone Top
A-68	540+75 Tollway, 40'Rt.	Type C-8' Inlet	627.97	624.05	4.00'	
A-69	540+75 Tollway, 40'Lt.	Type C-8' Inlet	627.97	624.05	4.00'	
A-70	542+00 Tollway, 40'Lt.	Type C-6' Inlet	625.46	621.54	4.00'	
A-71	542+00 Tollway, 40'Rt.	Type C-6' Inlet	625.46	621.54	4.00'	
A-72	542+93 Tollway, 40'Lt.	Type C-6' Inlet	624.41	620.49	4.00'	
A-73	542+93 Tollway, 40'Rt.	Type C-6' Inlet	624.41	620.49	4.00'	
A-74	543+93 Tollway 40'Lt.	Type C-6' Inlet	623.71	619.79	4.00'	
A-75	543+93 Tollway, 40'Rt.	Type C-6' Inlet	623.71	619.79	4.00'	
A-76	544+93 Tollway, 40'Lt.	Type C-6' Inlet	623.01	619.09	4.00'	
A-77	544+93 Tollway, 40'Rt.	Type C-6' Inlet	623.01	619.09	4.00'	
A-78	545+93 Tollway, 40'Lt.	Type C-6' Inlet	622.31	618.39	4.00'	
A-79	545+93 Tollway, 40'Rt.	Type C-6' Inlet	622.31	618.39	4.00'	

SEWERS

CODE	FROM	TO	SIZE (IN.)	LENGTH (FT.) FINAL	EST.	GRADE %	INVERT ELEV. INLET	OUTLET	TYPE OF PIPE	REMARKS
P-140	A-32	A-31	42"		262'	1.11	612.63	609.79	CI. IV	
P-141	A-37	A-32	30"		500'	0.75	617.38	613.63	80 L.F. CI. IV, +421 L.F. CI. III	
P-142	A-38	A-37	27"		275'	0.75	619.69	617.63	CI. III	
P-143	A-51	A-38	21"		360'	0.42	621.66	620.19	CI. III	
P-144	A-33	P-141	21"		21'	5.43	617.45	616.23	CI. III	
P-145	A-36	P-141	21"		22'	2.80	618.08	617.38	CI. III	
P-146	A-39	A-38	21"		72'	2.00	621.63	620.19	CI. V	
P-147	A-41	A-39	21"		80'	1.00	637.33	636.53	CI. III	
P-148	A-43	A-41	21"		75'	0.72	638.07	637.53	CI. III	
P-149	A-45	A-43	18"		75'	1.76	639.84	638.58	CI. III	
P-150	A-46	A-45	18"		185'	0.92	641.74	640.04	CI. III	
P-151	A-48	A-46	15"		50'	2.98	643.43	641.94	CI. III	
P-152	A-50	A-48	15"		60'	4.25	646.18	643.63	CI. III	
P-153	A-40	A-39	15"		45'	3.42	638.57	637.03	CI. III	
P-154	A-42	A-41	15"		45'	1.04	638.30	637.83	CI. III	
P-155	A-44	A-43	15"		45'	0.30	638.57	638.43	CI. III	
P-156	A-47	A-46	15"		44'	1.18	642.51	641.99	CI. III	
P-157	A-49	A-48	15"		50'	0.30	643.78	643.63	CI. III	
P-158	A-57	A-32	36"		197'	1.15	616.63	613.13	CI. V Jack 125 L.F. Under Dallas Pkwy.	
P-159	P-160	A-57	36"		100'	0.50	617.33	616.83	CI. III	
P-160	P-161	P-159	24"		141'	1.00	619.83	618.33	CI. III	
P-161	A-55	P-160	21"		172'	1.00	621.93	620.08	CI. III	
P-162	A-52	A-57	21"		10'	4.63	619.19	618.08	CI. III	
P-163	A-53	P-159	21"		21'	1.79	618.23	617.80	CI. III	
P-164	A-56	P-159	24"		179'	0.96	619.11	617.39	CI. III	
P-165	A-54	P-160	21"		10'	4.00	620.33	619.93		
P-170	A-60	A-61	15"		50'	0.30	644.38	644.23	CI. III	
P-171	A-62	P-177	15"		50'	1.76	642.75	641.87	CI. III	
P-172	A-63	P-177	15"		45'	5.45	636.54	634.09	CI. III	
P-173	A-64	P-177	15"		50'	5.30	636.54	633.89	CI. III	
P-174	A-65	P-177	15"		45'	5.29	628.73	626.35	CI. III	
P-175	A-66	P-177	15"		50'	5.18	628.73	626.14	CI. III	
P-176	A-68	A-67	15"		60'	1.53	624.05	623.13	CI. III	
P-177	A-61	A-67	18"		540'	3.93	644.10	622.88	CI. III	
P-178	A-69	P-181	15"		12'	35.76	624.05	619.76	CI. III With-2-30° Elbows	
P-179	A-110	P-180	15"		24'	1.79	621.91	621.48	CI. III	
P-180	A-109	P-181	15"		304'	1.50	623.65	619.08	CI. III	
P-181	A-67	A-112	21"		115'	4.50	622.43	617.26	CI. III	
P-182	A-100	P-187	15"		65'	3.70	634.16	631.75	CI. III	
P-183	A-99	P-187	15"		65'	5.13	632.08	628.74	CI. III	
P-184	A-98	P-187	15"		45'	7.32	632.27	628.98	CI. III	
P-185	A-97	P-187	15"		65'	6.50	627.79	623.57	CI. III	
P-186	A-96	P-187	15"		58'	7.08	627.82	623.71	CI. III	
P-187	A-101	A-94	18"		475'	2.92	633.97	620.08	CI. III	
P-188	A-94	A-92	18"		80'	4.24	619.88	616.49	CI. III	
P-189	A-92	A-116	18"		24'	4.46	616.29	615.22	CI. III	

AS BUILT PLANS

TEXAS TURNPIKE AUTHORITY	
DALLAS NORTH TOLLWAY	
DRAINAGE SUMMARY	
URS ENGINEERS	
DALLAS, TEXAS	
SECTION _____	
DRAWN J.D. DATE 5/83	DESIGNED N.N. DATE 5/83
CHECKED G.D. DATE 5/83	SCALE NO SCALE
NO. _____	REVISION _____
BY _____	DATE _____
CONTRACT NO. DNT-113 SHEET R-74 OF R-149	

	As Built	C.B.	
	Revised A-39 & A-67	WAP	6-17-85
	Revised Line P-164	OLO	2-85
	Inlet & Pipe Revisions	WAP	11-28-84

INLETS AND MANHOLES

CODE	LOCATION	DESCRIPTION	ELEV.	OUTLET F.L.	DEPTH (Ft.)	REMARKS
A-80	546+70 Tollway, 57'Lt.	Std. Y Inlet	621.50	616.92	4.58'	With 2 Open Sides
A-81	546+75 Tollway, 57'Rt.	Std. Y Inlet	621.50	616.92	4.58'	With 2 Open Sides
A-82	546+93 Tollway, 40'Lt.	Type C-6' Inlet	621.61	616.69	5.00'	
A-83	546+93 Tollway, 40'Rt.	Type C-6' Inlet	621.61	616.69	5.00'	
A-84	547+63 Tollway, 40'Lt.	Type C-3' Inlet	621.34	617.42	4.00'	
A-85	547+63 Tollway, 40'Rt.	Type C-3' Inlet	621.34	617.42	4.00'	
A-86	548+33 Tollway, 40'Lt.	Type C-6' Inlet	621.62	617.70	4.00'	
A-87	548+33 Tollway, 40'Rt.	Type C-6' Inlet	621.62	617.70	4.00'	
A-88	549+13 Tollway, 40'Lt.	Type C-3' Inlet	622.60	618.68	4.00'	
A-89	549+13 Tollway, 40'Rt.	Type C-3' Inlet	622.60	618.68	4.00'	
A-90	5+50 Ramp N-AL, 19'Rt.	Type C-8' Inlet	622.00	615.08	7.00'	
A-91	1+30 Ramp AL-N, 19'Rt.	Type C-3' Inlet	622.38	616.46	6.00'	
A-92	3+75 Ramp N-AL,	Type C-10' Inlet	624.71	616.29	8.50'	
A-93	2+00 Ramp AL-N, 19'Rt.	Type C-3' Inlet	622.63	616.21	6.50'	
A-94	550+75 Tollway, 2.25' Lt.	Type III Manhole	627.44	619.88	7.31'	With Cone Top
A-95	3+50 Ramp AL-N	Type C-10' Inlet	624.91	620.99	4.00'	
A-96	1+75 Ramp N-AL	Type C-8' Inlet	631.69	627.77	4.00'	
A-97	552+25 Tollway, 52'Rt.	Type C-8' Inlet	631.71	627.79	4.00'	
A-98	554+00 Tollway, 40'Lt.	Type C-6' Inlet	636.19	632.27	4.00'	
A-99	554+00 Tollway, 52'Rt.	Type C-6' Inlet	636.00	632.08	4.00'	
A-100	555+25 Tollway, 40'Lt.	Type C-6' Inlet	638.08	634.16	4.00'	
A-101	555+25 Tollway, 52'Rt.	Type C-6' Inlet	637.89	633.97	4.00'	
A-102	52+50 S.B. Inwood Rd,	Type CDR-14' Inlet	626.32	622.32	4.0'	
A-103	53+17 S.B. Inwood Rd, 12'Lt.	Type CDR-14' Inlet	625.96	622.46	3.5'	
A-104	8+25 Alpha Rd, 41'Rt.	Type CDR-10' Inlet	626.93	623.43	3.5'	
A-105	8+25 Alpha Rd, 41'Lt.	Type CDR-10' Inlet	626.93	619.69	7.24'	
A-106	14+10 Alpha U-Turn Road	Type CDR-10' Inlet	626.74	623.24	3.5'	
A-107	13+30 Alpha U-Turn Road	Type CDR-10' Inlet	626.47	622.97	3.5'	
A-108	13+25 S.B. Dallas Pkwy, 28'Rt.	Type II Manhole	625.87	616.94	8.68'	With Cone Top
A-109	4+50 Ramp SPV-S	Type C-10' Inlet	629.57	623.65	6.00'	
A-110	3+25 Ramp SPV-S	Type C-6' Inlet	625.83	621.91	4.00'	
A-111	1+50 Ramp SPV-S, 22'Rt.	Type C-6' Inlet	624.16	620.24	4.00'	
A-112	18+90 S.B. Dallas Pkwy, 28'Rt.	Type I Manhole	623.81	614.91	8.65'	With Cone Top
A-113	19+50 S.B. Dallas Pkwy.	Type CDR-10' Inlet	623.20	619.70	3.50'	
A-114	24+15 S.B. Dallas Pkwy, 28'Rt.	Type I Manhole	622.24	613.75	8.24'	With Cone Top
A-115	25+50 S.B. Dallas Pkwy.	Type CDR-10' Inlet	621.40	617.90	3.50'	
A-116	28+35 S.B. Dallas Pkwy, 28'Rt.	Type I Manhole	620.98	612.62	8.11'	With Cone Top
A-117	30+85 S.B. Dallas Pkwy.	Type CDR-10' Inlet	619.80	616.30	3.50'	
A-118	31+00 S.B. Dallas Pkwy, 28'Rt.	Type I Manhole	620.19	611.72	8.22'	With Cone Top
A-119	33+70 S.B. Dallas Pkwy.	Type CDR-10' Inlet	617.43	613.93	3.50'	
A-120	33+85 S.B. Dallas Pkwy, 28'Rt.	Type I Manhole	617.58	610.76	6.57'	With Flat Top
A-121	34+45 S.B. Dallas Pkwy, 7'Rt.	Conn. To Exlst.5x10RCBC		610.14		
A-122	7+75 Ramp S-SPV, 26'Rt.	Type C-10' Inlet	631.80	627.38	4.50'	
A-123	9+25 Ramp S-SPV, 26'Rt.	Type C-6' Inlet	629.02	625.10	4.00'	
A-124	11+25 Ramp S-SPV, 20'Rt.	Type C-8' Inlet	626.84	622.92	4.00'	

SEWERS

CODE	FROM	TO	SIZE (IN.)	LENGTH (FT.) FINAL	GRADE %	INVERT ELEV. INLET	INVERT ELEV. OUTLET	TYPE OF PIPE	REMARKS
P-198	A-103	P-195	21"	48'	0.48	621.96	621.73	CI-III	
P-191	A-104	P-105	21"	84'	2.03	623.43	621.72	CI-III	
P-192	A-105	P-195	21"	95'	2.03	621.52	619.69	CI-III	
P-193	A-106	P-194	21"	107'	1.34	623.24	621.90	CI-III	
P-194	A-107	A-108	21"	72'	5.97	622.97	618.79	CI-III	
P-195	A-102	A-108	30"	292'	0.75	620.03	618.04	CI-III	
P-196	A-108	A-112	42"	606'	0.25	616.94	615.51	CI-III	
P-197	A-111	P-181	15"	15'	16.90	620.24	617.71	CI-III	
P-198	A-113	P-203	21"	36'	11.22	619.70	615.89	CI-III	
P-199	A-70	P-203	15"	36'	10.05	621.54	616.01	CI-III	
P-200	A-72	P-203	15"	36'	8.95	620.49	615.83	CI-III	
P-201	A-74	P-203	15"	30'	7.99	619.79	615.64	CI-III	
P-202	A-76	P-203	15"	30'	7.03	619.09	615.43	CI-III	
P-203	A-112	A-114	48"	525'	0.20	614.91	613.85	CI-III	
P-204	A-78	A-114	15"	24'	3.44	618.39	616.60	CI-III	
P-205	A-80	P-206	15"	30'	2.71	616.92	616.11	CI-III	
P-206	A-82	P-212	15"	48'	3.45	616.69	614.90	CI-III	
P-207	A-115	P-212	21"	42'	9.82	617.90	614.76	CI-III	
P-208	A-84	P-212	15"	36'	5.67	617.42	614.47	CI-III	
P-209	A-86	A-90	15"	38'	6.37	617.70	615.28	CI-III	
P-210	A-90	P-212	15"	8'	6.62	615.08	614.55	CI-III	
P-211	A-88	P-212	15"	36'	8.36	618.68	614.33	CI-III	
P-212	A-114	A-116	48"	426'	0.25	613.75	612.72	CI-III	
P-213	A-116	A-118	48"	261'	0.30	612.62	611.82	CI-III	
P-214	A-117	A-118	21"	32'	6.97	616.30	614.07	CI-III	
P-215	A-118	A-120	48"	290'	0.30	611.72	610.85	CI-III	
P-216	A-119	A-120	21"	32'	2.59	613.93	613.10	CI-III	
P-217	A-120	A-121	48"	61'	1.03	610.76	610.14	CI-III	
P-219	A-126A	A-126	21"	54'	0.44	623.96	623.72	CI-III	
P-220	A-125	P-221	21"	97'	0.47	624.54	624.08	CI-III	
P-221	A-126	A-128	33"	275'	0.30	623.72	622.90	CI-III	
P-222	A-127	A-128	21"	34'	0.50	624.06	623.90	CI-III	
P-223	A-129	P-225A	21"	33'	3.19	623.97	622.95	CI-III	
P-224	A-130	P-225	24"	32'	8.19	623.53	620.91		
P-225A	A-128	P-224	36"	374'	0.50	622.55	620.67	CI-III	
P-225	P-224	A-132	42"	204'	0.35	620.17	619.46	CI-III	
P-226	A-131	A-132	21"	31'	4.59	622.68	621.21	CI-III	
P-227	A-123	P-228	15"	25'	2.67	625.10	624.46	CI-III	
P-228	A-122	A-132	15"	181'	1.74	627.38	621.71	CI-III	
P-229	A-124	P-234	15"	10'	29.35	622.92	619.98	CI-III	With-2-30° Elbows
P-230	A-71	P-234	15"	42'	3.69	621.54	619.44	CI-III	
P-231	A-133	P-234	24"	32'	8.66	621.61	618.84	CI-III	
P-232	A-73	P-234	15"	42'	2.91	620.49	618.98	CI-III	
P-233	A-75	P-234	15"	39'	2.51	619.79	618.49	CI-III	
P-234	A-132	A-135	48"	405'	0.50	618.86	616.83	CI-III	
P-220	A-125	P-220	15"	5	0.47			CI-III	

AS BUILT PLANS

NO.	Added P-219 Rev. P-220,221	BY	MV	DATE	1-23-84
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TEXAS TURNPIKE AUTHORITY
DALLAS NORTH TOLLWAY

DRAINAGE SUMMARY

URS ENGINEERS
DALLAS, TEXAS

DRAWN	J.D.	DATE	5/83	DESIGNED	N.N.	DATE	5/83
CHECKED	G.D.	DATE	5/83	SCALE	NO SCALE		

CONTRACT NO. DNT-113 SHEET R-75 OF R-149

	As Built	CB	
	Revised A-123 & P-227	WAP	G-85
	Revised A-94 Offset	WAP	G-85
	Revised A-103 And P-195 & Deleted P-190	OLO	2-85

INLETS AND MANHOLES

SEWERS

CODE	LOCATION	DESCRIPTION	ELEV.	OUTLET F.L.	DEPTH (FT.)	REMARKS	CODE	FROM	TO	SIZE (IN.)	LENGTH (FT.)		GRADE %	INVERT ELEV.		TYPE OF PIPE	REMARKS
											FINAL	EST.		INLET	OUTLET		
A-125	12+00 Alpha Road, 41'Rt.	Type CDR-10' Inlet	628.04	624.54	3.50'		P-235	A-134	A-135	24"	32'	4.69	620.33	618.83	CI. III		
A-126	12+00 Alpha Road, 41'Lt.	Type CDR-10' Inlet	628.04	623.72	4.32' △		P-236	A-77	P-245	15"	43'	2.86	619.09	617.60	CI. III		
A-127	12+12 N.B. Dallas Pkwy.	Type CDR-14' Inlet	627.38	624.06	3.32'		P-237	A-79	P-245	15"	42'	2.47	618.39	617.10	CI. III		
A-128	12+28 N.B. Dallas Pkwy, 28'Lt.	Type II Manhole	627.81	622.55	5.01'	With Flat Top	P-238	A-81	P-239	15"	17'	1.05	616.92	616.66	CI. III		
A-129	12+60 N.B. Dallas Pkwy.	Type CDR-10' Inlet	627.47	623.97	3.50'		P-239	A-83	P-245	15"	55'	0.16	616.69	616.60	CI. III		
A-126A	12+50 Alpha Road 25'Lt.	Conn. To Exist. 21"RCPC	-	623.96	-	△											
A-130	16+00 N.B. Dallas Pkwy.	Type CDR-10' Inlet	627.03	623.53	3.50'		P-240	A-136	P-245	24"	63'	7.95	618.90	616.36	CI. III		
A-131	18+00 N.B. Dallas Pkwy.	Type CDR-10' Inlet	626.18	622.68	3.50'	With Flat Top	P-241	A-85	A-91	15"	48'	1.38	617.42	616.66	CI. III		
A-132	18+15 N.B. Dallas Pkwy, 28'Lt.	Type I Manhole	626.55	618.86	7.44'		P-242	A-91	P-245	15"	5'	2.03	616.46	616.15	CI. III		
A-133	20+00 N.B. Dallas Pkwy.	Type CDR-10' Inlet	625.11	621.61	3.50'		P-243	A-87	A-93	15"	42'	2.58	617.70	616.41	CI. III		
A-134	22+00 N.B. Dallas Pkwy.	Type CDR-10' Inlet	623.83	620.33	3.50'		P-244	A-93	P-245	15"	22'	1.87	616.21	615.78	CI. III		
A-135	22+15 N.B. Dallas Pkwy, 28'Lt.	Type I Manhole	624.17	616.23	7.69'	With Flat Top	P-245	A-135	A-139	54"	460'	0.50	616.23	613.96	CI. III		
A-136	24+25 N.B. Dallas Pkwy.	Type CDR-10' Inlet	622.40	618.90	3.50'		P-246	A-89	A-139	15"	38'	2.94	618.68	617.21	CI. III		
A-138	26+50 N.B. Dallas Pkwy.	Type CDR-14' Inlet	621.24	614.62	6.62'		P-247	A-137	A-138	42"	4'	0.50	615.13	615.12	CI. III	Cap Upstream End	
A-139	26+65 N.B. Dallas Pkwy, 28'Lt.	Type I Manhole	621.60	612.86	8.49'	With Flat Top	P-248	A-138	A-139	48"	58'	0.50	614.62	614.46	CI. III		
							P-249	A-95	P-251	15"	40'	16.21	620.99	614.51	CI. III		
A-140	28+75 N.B. Dallas Pkwy.	Type CDR-14' Inlet	620.12	616.12	4.00'		P-250	A-140	P-251	24"	32'	7.47	616.12	613.73	CI. III		
A-142	31+25 N.B. Dallas Pkwy.	Type CDR-10' Inlet	618.87	613.14	5.73'		P-251	A-139	A-143	66"	469'	0.40	612.86	610.98	CI. III		
A-143	31+40 N.B. Dallas Pkwy, 28'Lt.	Type I Manhole	618.96	610.98	7.73'	With Flat Top	P-252	A-141	A-142	42"	4'	0.50	613.35	613.34	CI. III	Cap Upstream End	
A-144	32+75 N.B. Dallas Pkwy, 33'Lt.	Type CDR-10' Inlet	617.80	614.30	3.5'		P-253	A-142	A-143	42"	32'	0.50	613.14	612.98	CI. III		
							P-254	A-144	P-256	21"	8'	25.21	614.30	612.28	CI. III		
A-145	33+50 N.B. Dallas Pkwy, 13.5'Rt.	Parking Lot Inlet	620.40	615.79	4.61'	Details On Ret. Wall Sht.											
A-146	11+32 Spring Valley Rd, 40'Rt.	Type CDR-14' Inlet	619.60	615.60	4.0'												
A-147	11+30 Spring Valley Rd, 40'Lt.	Type CDR-10' Inlet	618.95	615.45	3.5'		P-255	A-145	P-256	21"	56'	7.20	615.79	611.76	CI. III		
A-148	36+39 S.B. Dallas Pkwy.	Type CDR-10' Inlet	617.10	613.60	3.5'		P-256	A-143	A-151	66"	240'	0.52	610.98	609.24	CI. III		
A-149	36+05 N.B. Dallas Pkwy.	Type CDR-10' Inlet	619.60	616.10	3.5'		P-257	A-146	To 30"	21"	15'	6.73	615.60	614.59	CI. III		
							P-258	A-147	A-150	21"	12'	1.96	615.45	615.16	CI. III		
A-150	11+09 Spring Valley, 52'Rt.	Type CDR-10' Inlet	619.19	614.96	4.23'		P-259	A-150	To 21"	21"	30'	1.95	614.96	614.37	CI. III		
A-151	34+50 S.B. Dallas Pkwy, 34'Rt.	Conn To Exist. 5x10RCBC		609.24													
A-155	38+47 N.B. Inwood Rd. 5'Rt.	Existing Manhole	622.40			Adj. Top											
A-156	39+97 N.B. Inwood Rd. 3'Rt.	Existing Manhole	621.24			Adj. Top											
A-157	41+02 N.B. Inwood Rd. 3'Rt.	Existing Manhole	622.36			Adj. Top											
A-158	43+55 N.B. Inwood Rd. 7'Rt.	Existing Manhole	623.87			Adj. Top											
A-159	45+55 N.B. Inwood Rd. 7'Rt.	Existing Manhole	624.95			Adj. Top											
A-160	46+55 N.B. Inwood Rd. 4'Lt.	Existing Manhole	624.80			Adj. Top											
A-57A	39+78 S.B. Inwood Rd. 20'Rt.	Type III Manhole	623.98	616.40	7.58' △	With Flat Top	P-161A	P-190	To A-57A	36"	1274'	0.39	621.36	616.40	CI. III		
A-108A	11+85 S.B. Dallas Pkwy. 28'Rt.	Type III Manhole	626.48	619.17	7.31' △		P-190	A-103	To P-161A	24"	70'	0.14	622.46	622.36	CI. III		
							P-190A	A-102	To P-161A	30"	15'	4.87	622.32	621.59	CI. III		
							P-161A	P-190	To A-57A	54"	260'						
										30"	1854'						
										36"	88'						

AS BUILT PLANS

△	As Built	CB	
△	Added A-57A, A-108A, P-161A, P-190 And P-190A	OLO	2-85
△	Added A-126A, Rev. A-126	NN	1-23-84
NO.	REVISION	BY	DATE

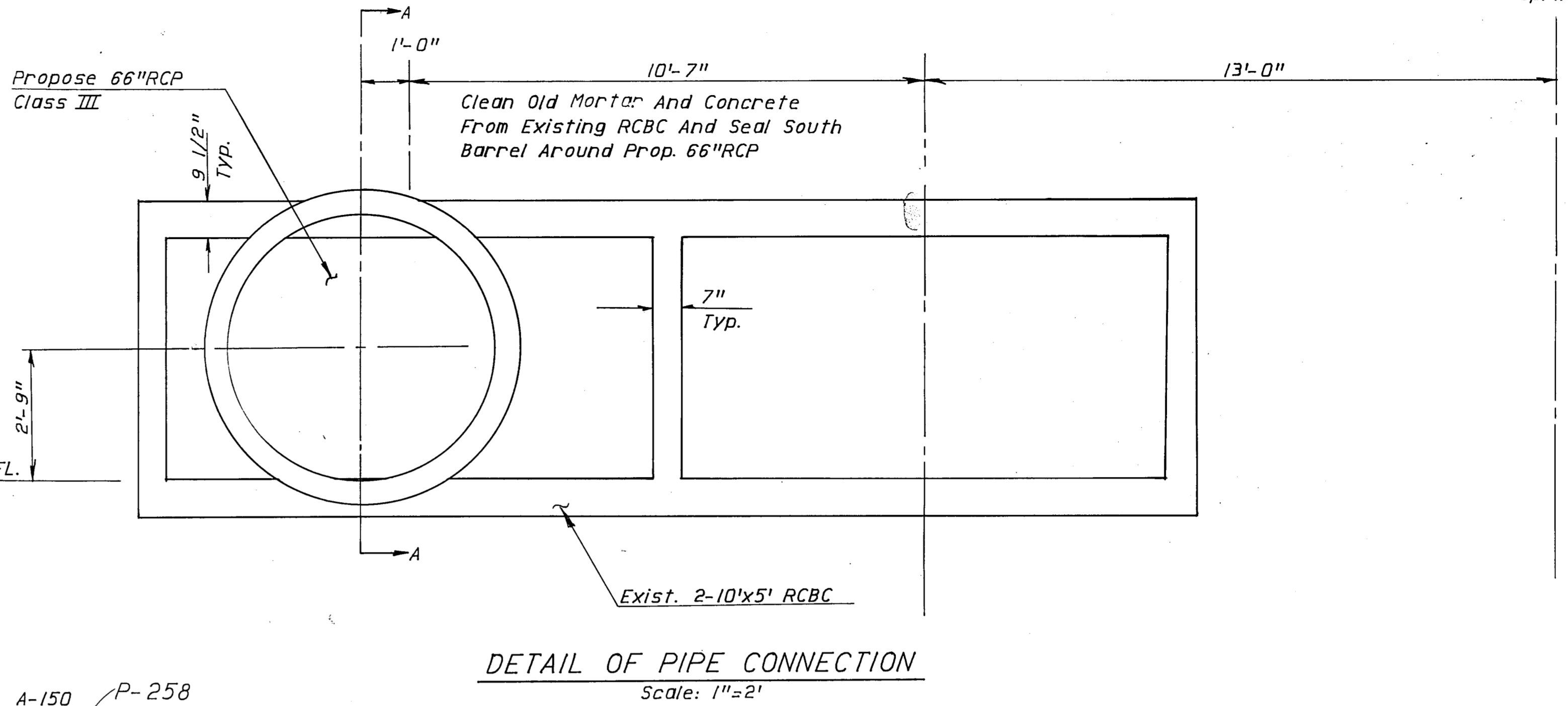
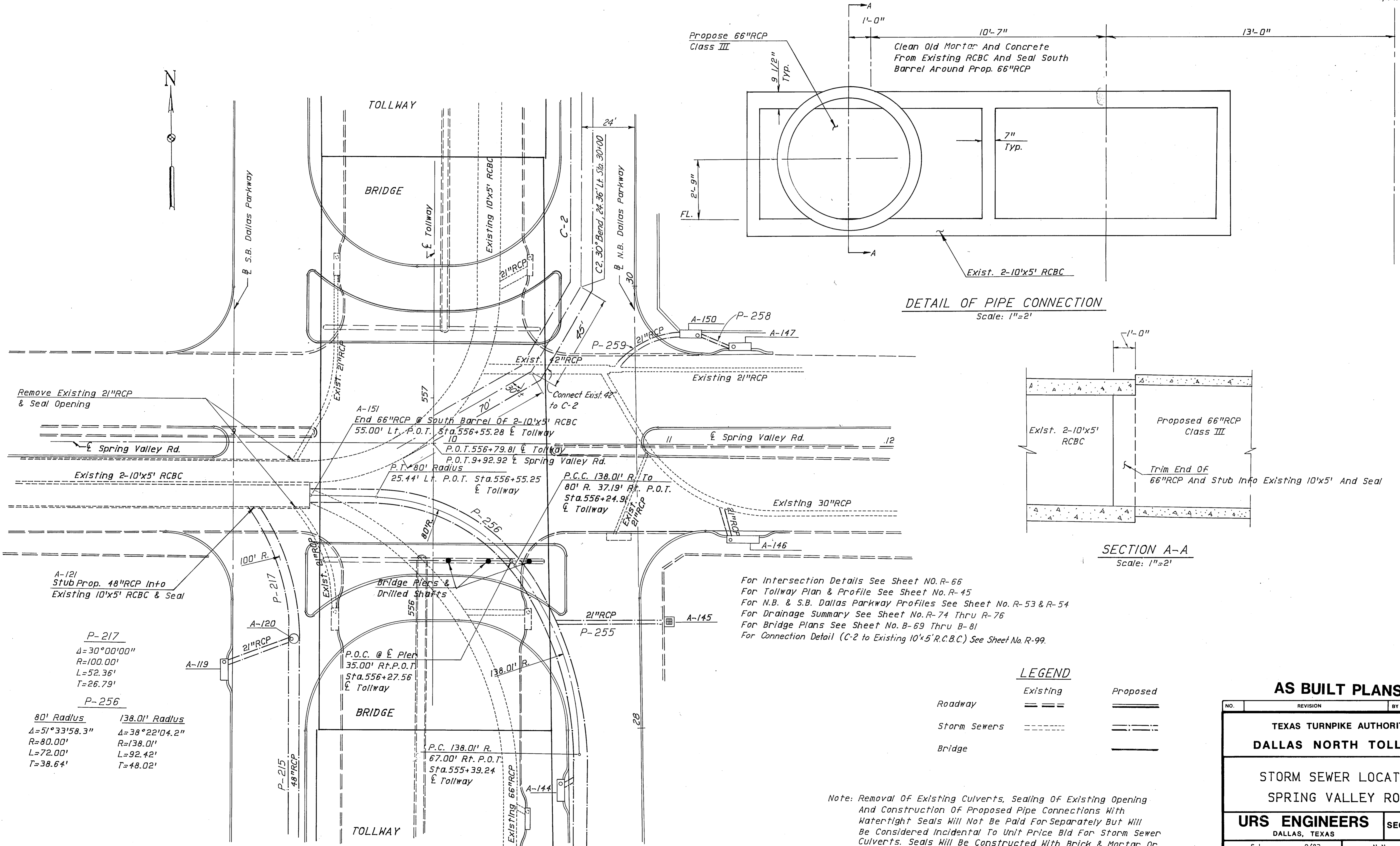
TEXAS TURNPIKE AUTHORITY
DALLAS NORTH TOLLWAY

DRAINAGE SUMMARY

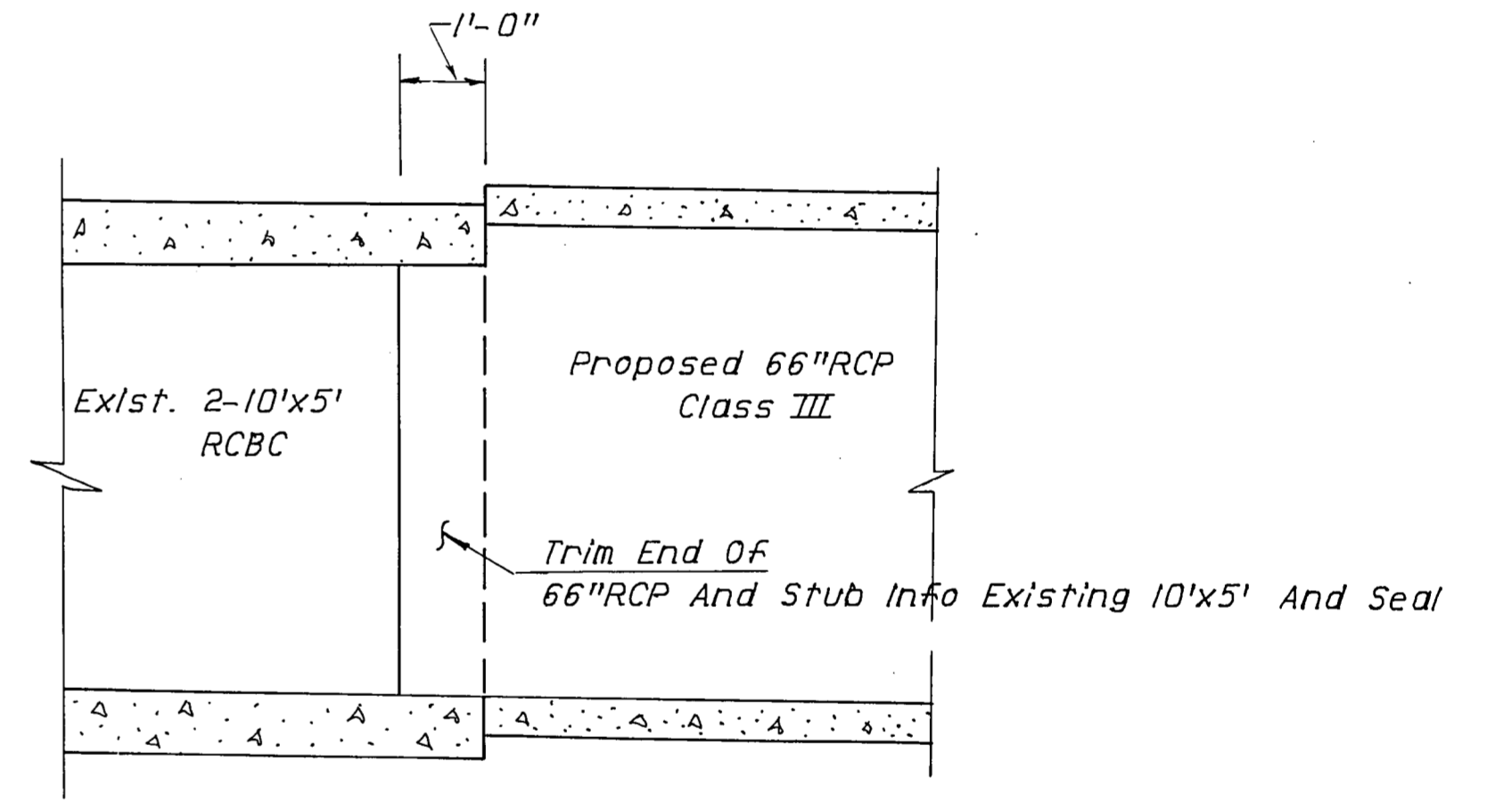
URS ENGINEERS
DALLAS, TEXAS

SECTION _____

DRAWN	J.D.	DATE	5/83	DESIGNED	N.N.	DATE	5/83
CHECKED	G.D.	DATE	5/83	SCALE	NO SCALE		



DETAIL OF PIPE CONNECTION
Scale: 1"=2'



SECTION A-A
Scale: 1"=2'

Remove Existing 21"RCP & Seal Opening

A-121 Stub Prop. 48"RCP Into Existing 10'x5' RCBC & Seal

P-217
 $\Delta=30^{\circ}00'00''$
 $R=100.00'$
 $L=52.36'$
 $T=26.79'$

P-256
80' Radius **138.01' Radius**
 $\Delta=51^{\circ}33'58.3''$ $\Delta=38^{\circ}22'04.2''$
 $R=80.00'$ $R=138.01'$
 $L=72.00'$ $L=92.42'$
 $T=38.64'$ $T=48.02'$

P.O.C. @ E Pier
 $35.00'$ Rt. P.O.T.
 $Sta. 556+27.56$
 E Tollway

P.C. 138.01' R.
 $67.00'$ Rt. P.O.T.
 $Sta. 555+39.24$
 E Tollway

P.C.C. 138.01' R. To
 $80'$ R. $37.19'$ Rt. P.O.T.
 $Sta. 556+24.91$
 E Tollway

For Intersection Details See Sheet NO. R-66
 For Tollway Plan & Profile See Sheet No. R-45
 For N.B. & S.B. Dallas Parkway Profiles See Sheet No. R-53 & R-54
 For Drainage Summary See Sheet No. R-74 Thru R-76
 For Bridge Plans See Sheet No. B-69 Thru B-81
 For Connection Detail (C-2 to Existing 10'x5'R.C.B.C.) See Sheet No. R-99.

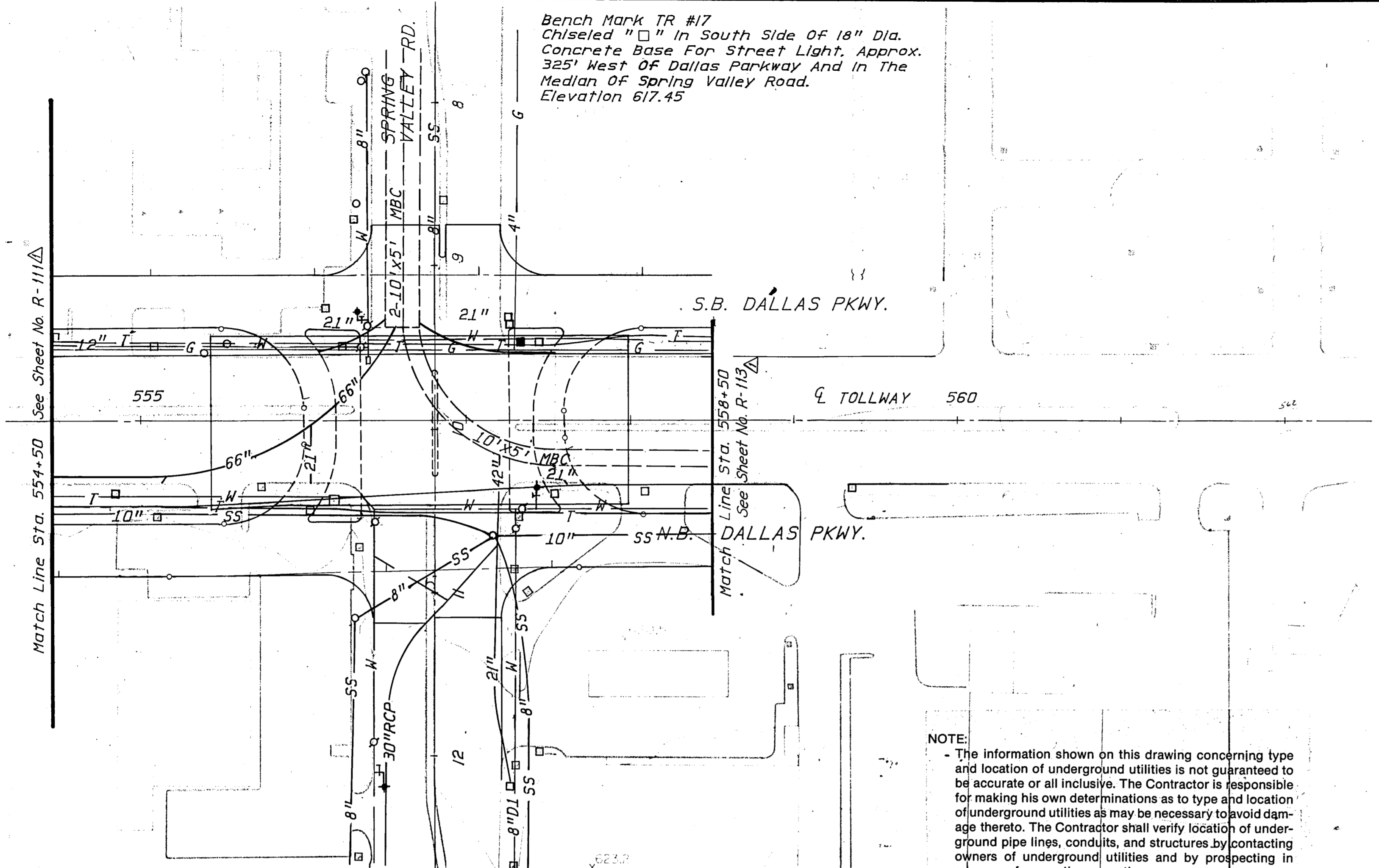
LEGEND

	Existing	Proposed
Roadway	==	==
Storm Sewers	----	----
Bridge	----	----

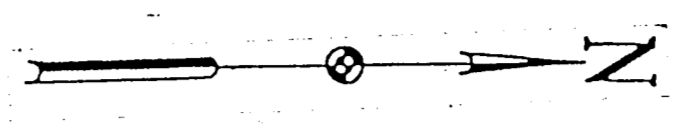
Note: Removal Of Existing Culverts, Sealing Of Existing Opening And Construction Of Proposed Pipe Connections With Watertight Seals Will Not Be Paid For Separately But Will Be Considered Incidental To Unit Price Bid For Storm Sewer Culverts. Seals Will Be Constructed With Brick & Mortar Or Class C Concrete. (1'-0" Thick)

AS BUILT PLANS

NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
STORM SEWER LOCATION SPRING VALLEY ROAD			
URS ENGINEERS DALLAS, TEXAS			SECTION V
DRAWN S.L.	DATE 8/83	DESIGNED N.N.	DATE 8/83
CHECKED G.D.	DATE 8/83	SCALE 1/4"=20'	
CONTRACT NO. DNT-113 SHEET R-98 OF R-149			



Bench Mark TR #17
Chiseled "□" in South Side of 18" Dia.
Concrete Base For Street Light. Approx.
325' West Of Dallas Parkway And In The
Median Of Spring Valley Road.
Elevation 617.45

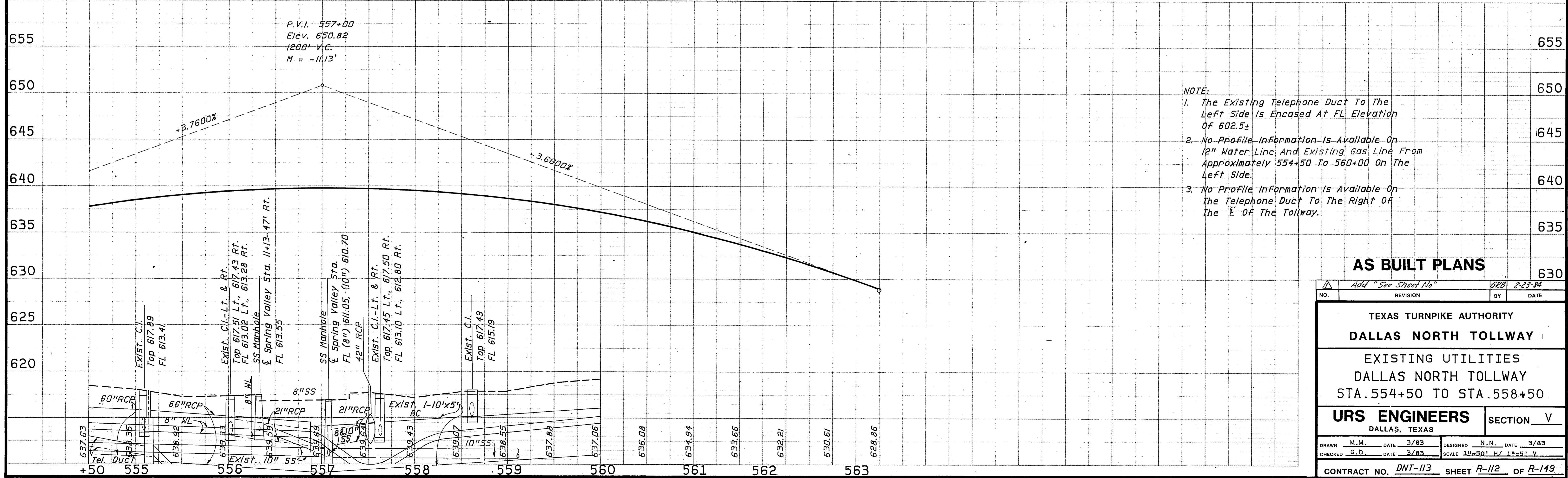


- LEGEND**
- Power Pole
 - Telephone Pole
 - Joint Power And Telephone
 - Manhole
 - ⊕ Water Valve
 - Inlet
 - W — 8" — Water Line
 - G — 4" — Gas Line
 - S — 24" — Storm Sewer Line
 - SS — 8" — Sanitary Sewer Line
 - T — T — Underground Telephone Line (Conduit)
 - E — E — Underground Electric Line
 - ⊕ Fire Hydrant

NOTE:
- The information shown on this drawing concerning type and location of underground utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his own determinations as to type and location of underground utilities as may be necessary to avoid damage thereto. The Contractor shall verify location of underground pipe lines, conduits, and structures by contacting owners of underground utilities and by prospecting in advance of excavation operations.

Bench Mark TR #1
Chiseled "□" North Side Of Manhole Rim.
On The South ROW Line Of Spring Valley
Road, Approx. 130' East Of Dallas Parkway.
Elevation 620.85

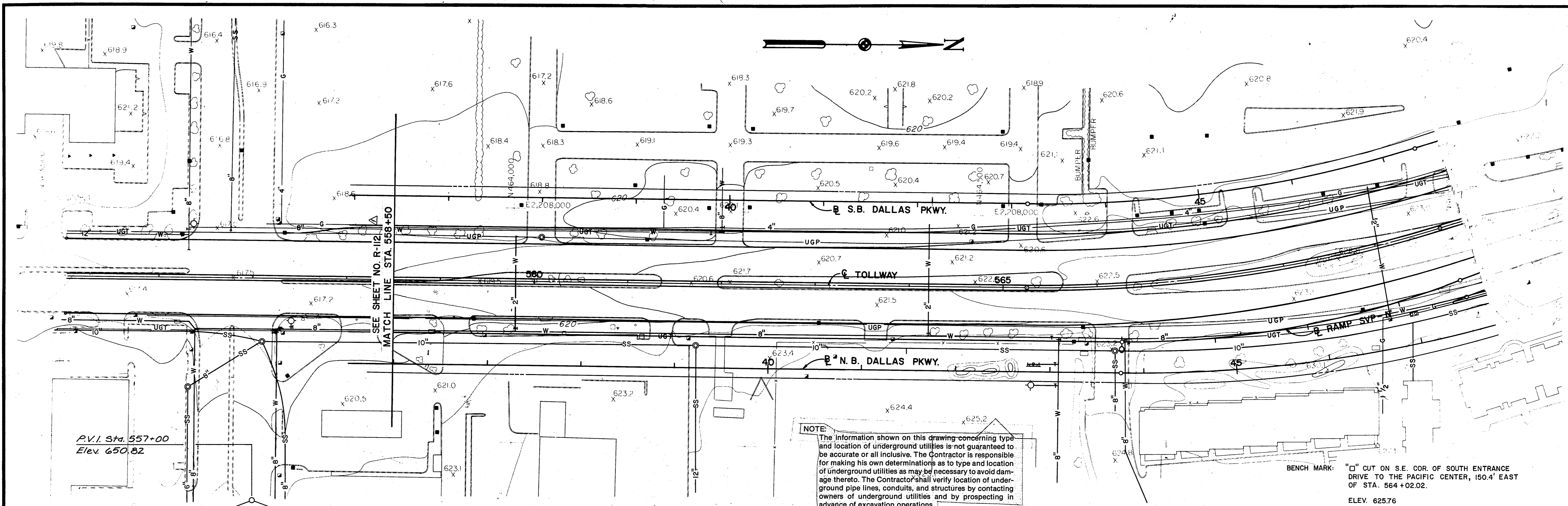
Bench Mark BM #2
Chiseled "□" On 4th Inlet On South Side
Of Spring Valley Road, Approx. 450' East
Of Dallas Parkway.
Elevation 624.52



- NOTE:**
- The Existing Telephone Duct To The Left Side Is Encased At FL Elevation Of 602.5±
 - No Profile Information Is Available On 12" Water Line And Existing Gas Line From Approximately 554+50 To 560+00 On The Left Side.
 - No Profile Information Is Available On The Telephone Duct To The Right Of The E Of The Tollway.

AS BUILT PLANS

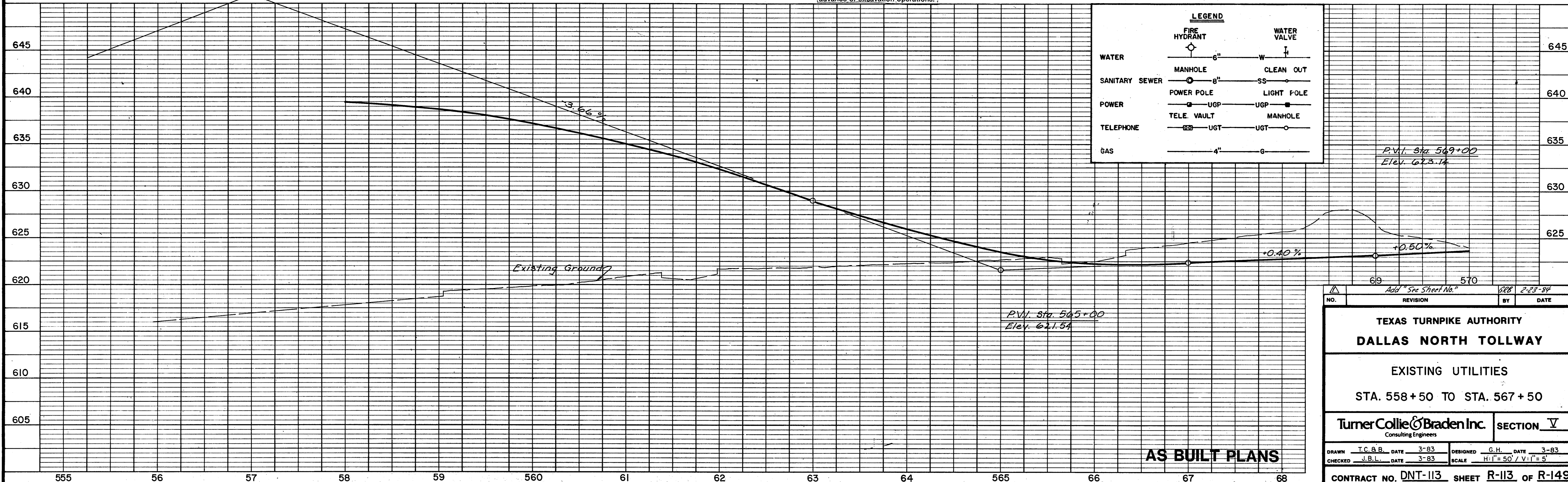
Add "See Sheet No"		028	2-23-84
NO.	REVISION	BY	DATE
TEXAS TURNPIKE AUTHORITY DALLAS NORTH TOLLWAY			
EXISTING UTILITIES DALLAS NORTH TOLLWAY STA. 554+50 TO STA. 558+50			
URS ENGINEERS DALLAS, TEXAS		SECTION <u>V</u>	
DRAWN	M.M.	DATE	3/83
DESIGNED	N.N.	DATE	3/83
CHECKED	G.D.	DATE	3/83
SCALE 1"=50' H/ 1"=5' V			
CONTRACT NO. <u>DNT-113</u> SHEET <u>R-112</u> OF <u>R-149</u>			



P.V.I. Sta. 557+00
Elev. 650.82

NOTE: The information shown on this drawing concerning type and location of underground utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his own determinations as to type and location of underground utilities as may be necessary to avoid damage thereto. The Contractor shall verify location of underground pipe lines, conduits, and structures by contacting owners of underground utilities and by prospecting in advance of excavation operations.

BENCH MARK: "□" CUT ON S.E. COR. OF SOUTH ENTRANCE DRIVE TO THE PACIFIC CENTER, 150.4' EAST OF STA. 564+02.02.
ELEV. 625.76



LEGEND	
FIRE HYDRANT	WATER VALVE
WATER 6"	W
SANITARY SEWER 8"	SS
POWER UGP	UGP
TELEPHONE UGT	UGT
GAS 4"	G
MANHOLE	CLEAN OUT
POWER POLE	LIGHT POLE
TELE. VAULT	MANHOLE

P.V.I. Sta. 569+00
Elev. 623.14

NO.		REVISION		BY	DATE
Add "See Sheet No." 1/28 2-23-84					
TEXAS TURNPIKE AUTHORITY					
DALLAS NORTH TOLLWAY					
EXISTING UTILITIES					
STA. 558+50 TO STA. 567+50					
Turner Collie & Braden Inc. Consulting Engineers					SECTION <u>V</u>
DRAWN	T.C.B.B.	DATE	3-83	DESIGNED	G.H.
CHECKED	J.B.L.	DATE	3-83	SCALE	H:V = 50:1
CONTRACT NO. DNT-113 SHEET <u>R-113</u> OF <u>R-149</u>					

AS BUILT PLANS