

Issued For Construction
 PC-18/8/85

Job No. C34187

Revision

Add # 4, 7-3-85
 Sheet Title
 WATER & SANITARY SEWER PLAN

Date: 6/03/85

Drawn

Sheet No. C6

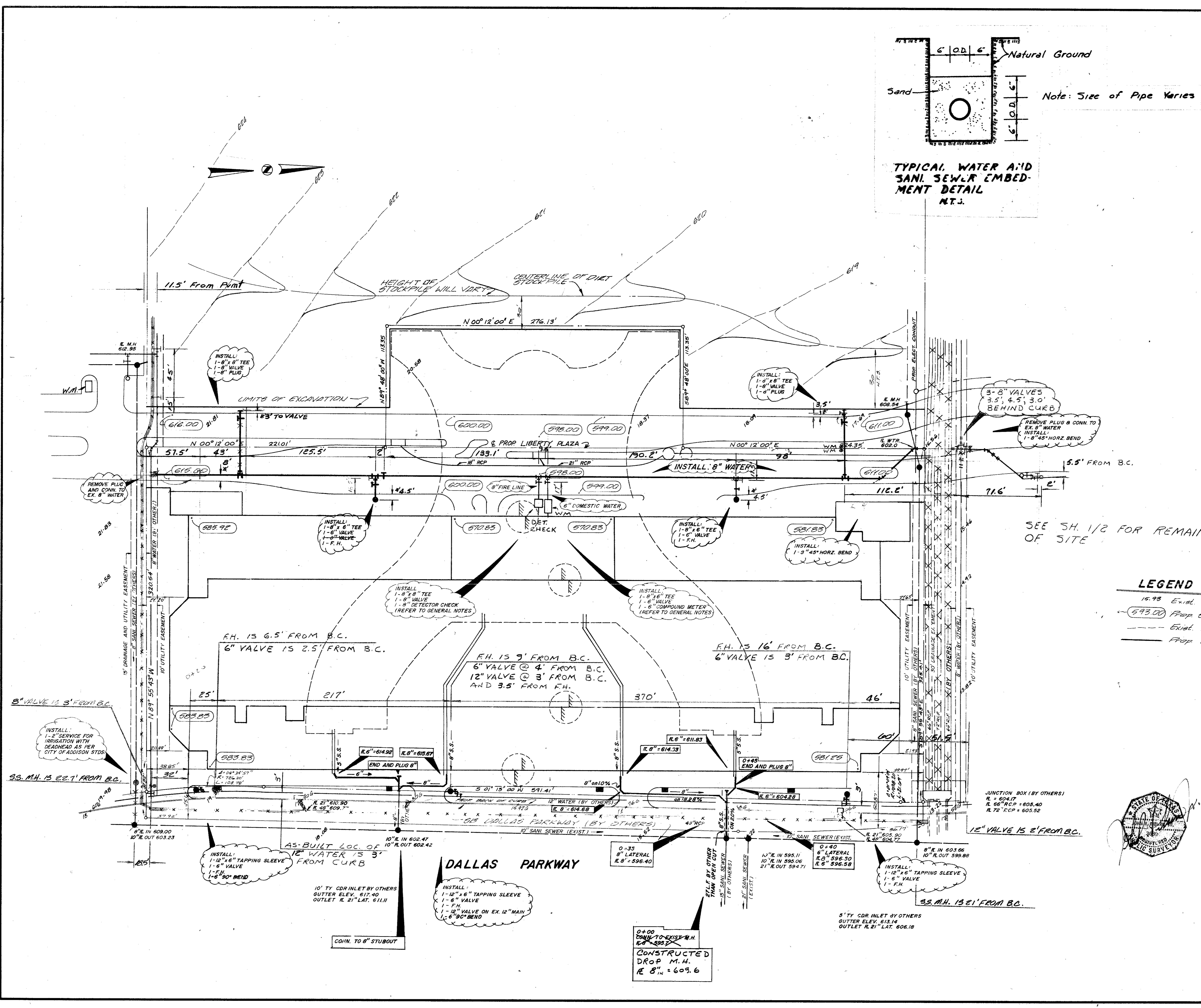
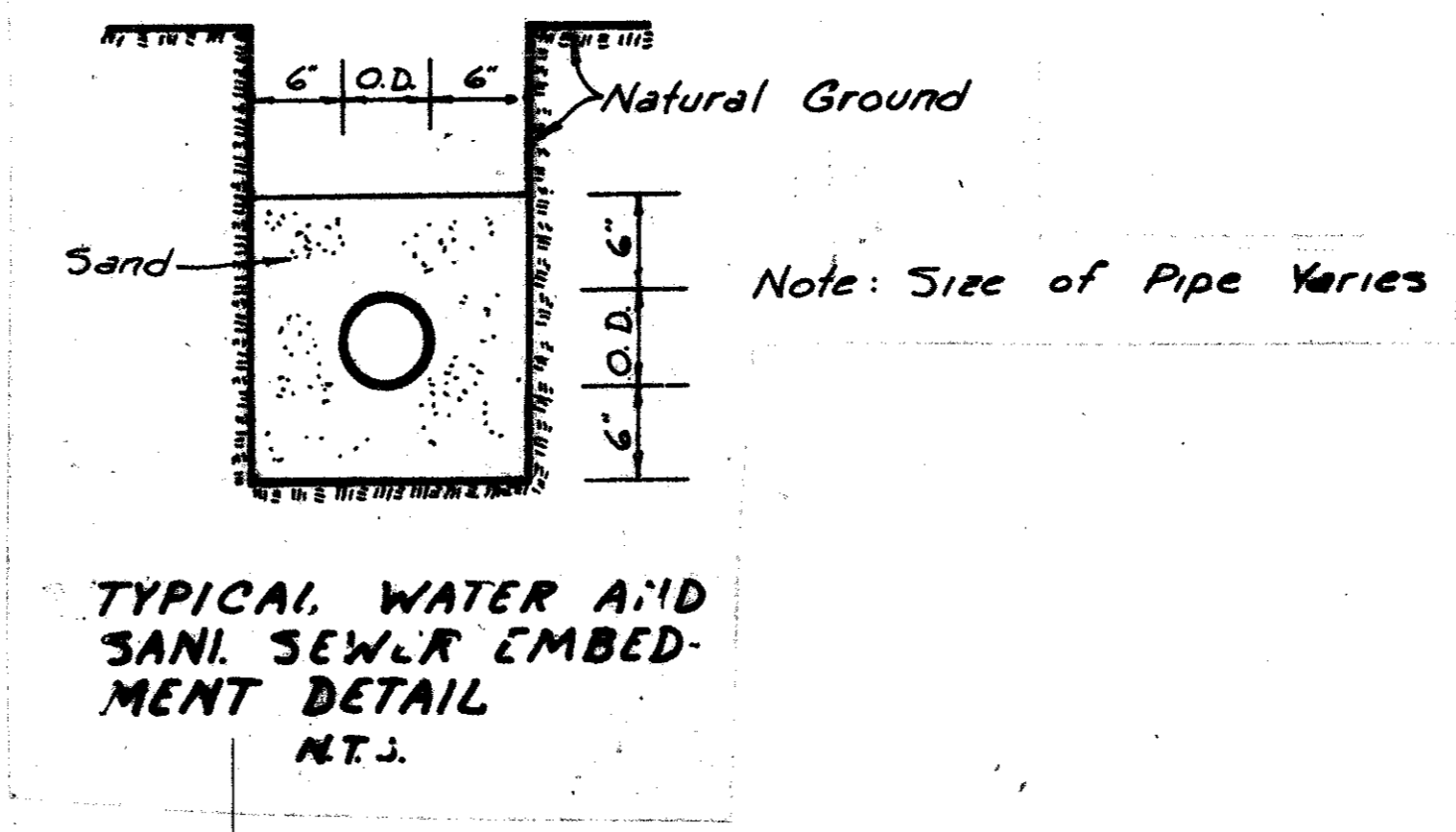
of sheets

WATER AND SANITARY SEWER GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY OF ADDISON STANDARDS AND SPECIFICATIONS.
- ALL WATER MAINS SHALL BE PVC 50R-18 WATER PIPE (BLUE BRUTE WITH WIRE TRACERS). TRACER TO BE #12 INSULATED COPPER.
- ALL WATER MAINS SHALL HAVE MINIMUM COVER BELOW FINISHED GRADES AS FOLLOWS: 6" & 8" - 48" OR AS REQUIRED TO CLEAR OTHER UTILITIES.
- ALL SEWER MAINS SHALL BE PVC 50R-35 SANITARY SEWER PIPE.
- ALL PIPE EMBEDMENT SHALL BE AS DETAILED ON THIS SHEET.
- ALL TEES, CONNECTIONS, BENDS, DEAD-ENDS, FIRE HYDRANTS, ETC., SHALL BE SECURELY BACKED AGAINST TRENCH WALLS USING 3000 PSI CONCRETE.
- ALL FIRE HYDRANTS SHALL BE MUELLER CENTERLINE MODEL AND SHALL CONFORM TO THE CITY OF ADDISON STANDARDS AND SPECIFICATIONS.
- ALL TRENCH BACKFILL FOR THESE UTILITIES SHALL BE COMPACTED AS REQUIRED BY CITY, BUT IN NO CASE SHALL THE TOP 12" BE COMPACTED TO LESS THAN 90% RASHO DENSITY WITH THE REMAINDER OF THE DITCH BEING COMPACTED TO THAT OF ADJOINING SOIL CONDITIONS.
- CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK AND SHALL PROTECT EXISTING IMPROVEMENTS DURING CONSTRUCTION.
- THE 90° FIRE LINE METER SHALL BE HERSEY MODEL D.C. DETECTOR CHECK WITH 2" BYPASS TURBINE METER. THE DETECTOR CHECK SHALL BE INSTALLED IN A PRECAST OR CAST-IN-PLACE CONCRETE PIT WITH A CONCRETE FLOOR, WITH THE METER NO LOWER THAN 18" BELOW FINISHED GRADE. THE PIT SHALL BE OF ADEQUATE SIZE TO REMOVE METER WITHOUT HAVING TO DISASSEMBLE METER. THE DOORS TO THE PIT SHALL BE OF THE "BILCO" TYPE, BUT NOT NECESSARILY OF THAT BRAND.
- THE 6" DOMESTIC WATER METER SHALL BE HERSEY 4" COMPOUND METER MODEL MCT WITH 6" BYPASS. THE METER SHALL BE INSTALLED IN A PRECAST OR CAST-IN-PLACE CONCRETE PIT WITH A CONCRETE FLOOR, WITH THE METER NO LOWER THAN 18" BELOW FINISHED GRADE. THE PIT SHALL BE OF ADEQUATE SIZE TO REMOVE METER WITHOUT HAVING TO DISASSEMBLE METER. THE DOORS TO THE PIT SHALL BE OF THE "BILCO" TYPE, BUT NOT NECESSARILY OF THAT BRAND.
- THE CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ALL COSTS OF UTILITY CONNECTIONS, TAP FEES AND THE TESTING OF NEW MAINS REQUIRED BY THE CITY OF ADDISON TO COMPLETE THE WORK WHETHER THESE SERVICES ARE PERFORMED BY THE CONTRACTOR OR BY OTHERS.

STORM DRAINAGE GENERAL NOTES

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY OF ADDISON STANDARDS AND SPECIFICATIONS.
- ALL REINFORCED CONCRETE PIPE SHALL BE MINIMUM CLASS III PIPE WITH TONGUE AND GROOVE JOINTS. RAIN NECK SEALER OR APPROVED EQUIV. SHALL BE USED IN ALL PIPE JOINTS.
- STORM DRAINAGE PIPE LESS THAN 15" DIAMETER SHALL BE EXTRA STRENGTH NONREINFORCED CONCRETE PIPE, VITRIFIED CLAY PIPE OR PVC PIPE AT THE CONTRACTOR'S OPTION WITH THE ENGINEER'S APPROVAL.
- WHENEVER A SMALLER PIPE IS JOINTED END-TO-END TO A LARGER PIPE, A CONCRETE COLLAR SHALL BE PLACED AROUND THE PIPES OVER THE JOINT.
- THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK AND SHALL PROTECT EXISTING IMPROVEMENTS DURING CONSTRUCTION.
- ALL TRENCH BACKFILL FOR STORM SEWER SHALL BE COMPACTED AS REQUIRED BY CITY, BUT IN NO CASE SHALL THE TOP 12" BE COMPACTED TO LESS THAN 90% STANDARD PROCTOR WITH THE REMAINDER BEING COMPACTED TO THAT OF ADJOINING SOIL CONDITIONS.
- CRUSHED STONE BEDDING OR APPROVED EQUIV. WILL BE PROVIDED WHEN ROCK IS ENCOUNTERED IN STORM SEWER TRENCHES.
- ALL DRAINAGE STRUCTURES SHALL BE 3000 PSI CONCRETE AT 28 DAYS UNLESS OTHERWISE NOTED ON PLANS.



LEGEND

- 16.95 Exst. Spot Elevation
- 693.00 Prop. Spot Elevation
- Exst. Contour
- Prop. Contour

UTILITY INFORMATION IS BASED UPON FIELD MEASUREMENTS AND THE BEST AVAILABLE RECORDS. FIELD DATA IS LIMITED TO THAT WHICH IS VISIBLE AND CAN BE MEASURED. THIS DOES NOT PRECLUDE THE EXISTENCE OF OTHER UNDERGROUND ITEMS. RECORD INFORMATION IS BASED UPON DATA COLLECTED FROM BOTH PUBLIC AND PRIVATE SOURCES. THE COMPLETENESS AND/OR ACCURACY OF THESE RECORDS CANNOT BE GUARANTEED EXCEPT INsofar AS THEY CAN BE VERIFIED BY THE FIELD MEASUREMENT.

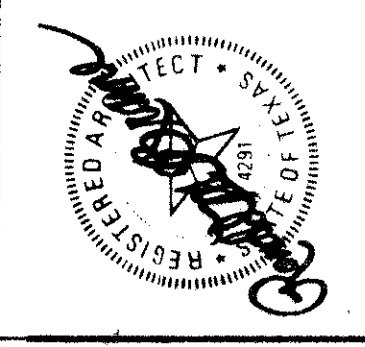
BENCHMARK: SQUARE CUT ON TOP OF CURB OF ISLAND NE CORNER OF LIBERTY PLAZA ELEV. 622.15

WATER & SANITARY SEWER PLAN
SUNBELT CORPORATE HEADQUARTERS
SUN DEVELOPMENT COMPANY
JACK R. DAVIS & associates, inc.
 consulting civil engineers & surveyors
 3535 Travis Street, Suite 100
 Dallas, Texas 75204 (214) 522-9540

design	drawn	date	scale	notes	job no.	sheet no.
JRD	RT	6/85	1"=40'	JRD	C84187	of

AS-BUILT DATE: 6-20-88

BROCKETTE · DAVIS · DRAKE, inc.
 consulting engineers
 Civil & Structural Engineering · Surveying
 3535 Travis, Suite 100 • Dallas, Texas 75204 • (214) 522-9540



Issued For Construction PC # 8/9/85
 Job No. C 84187
 Revision

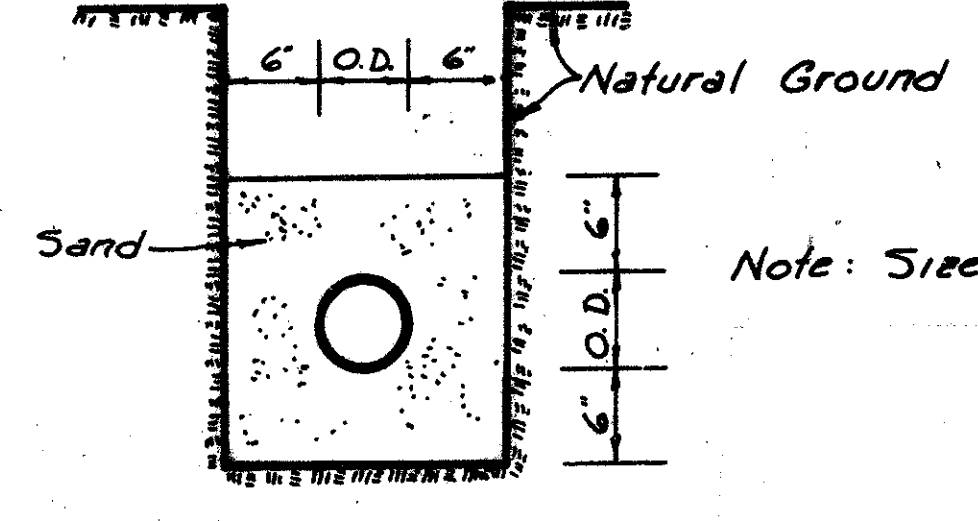
Sheet Title: WATER & SANITARY SEWER PLAN
 Date: 6/03/85
 Drawn: JRD
 Sheet No. **C6**
 of sheets

WATER AND SANITARY SEWER GENERAL NOTES

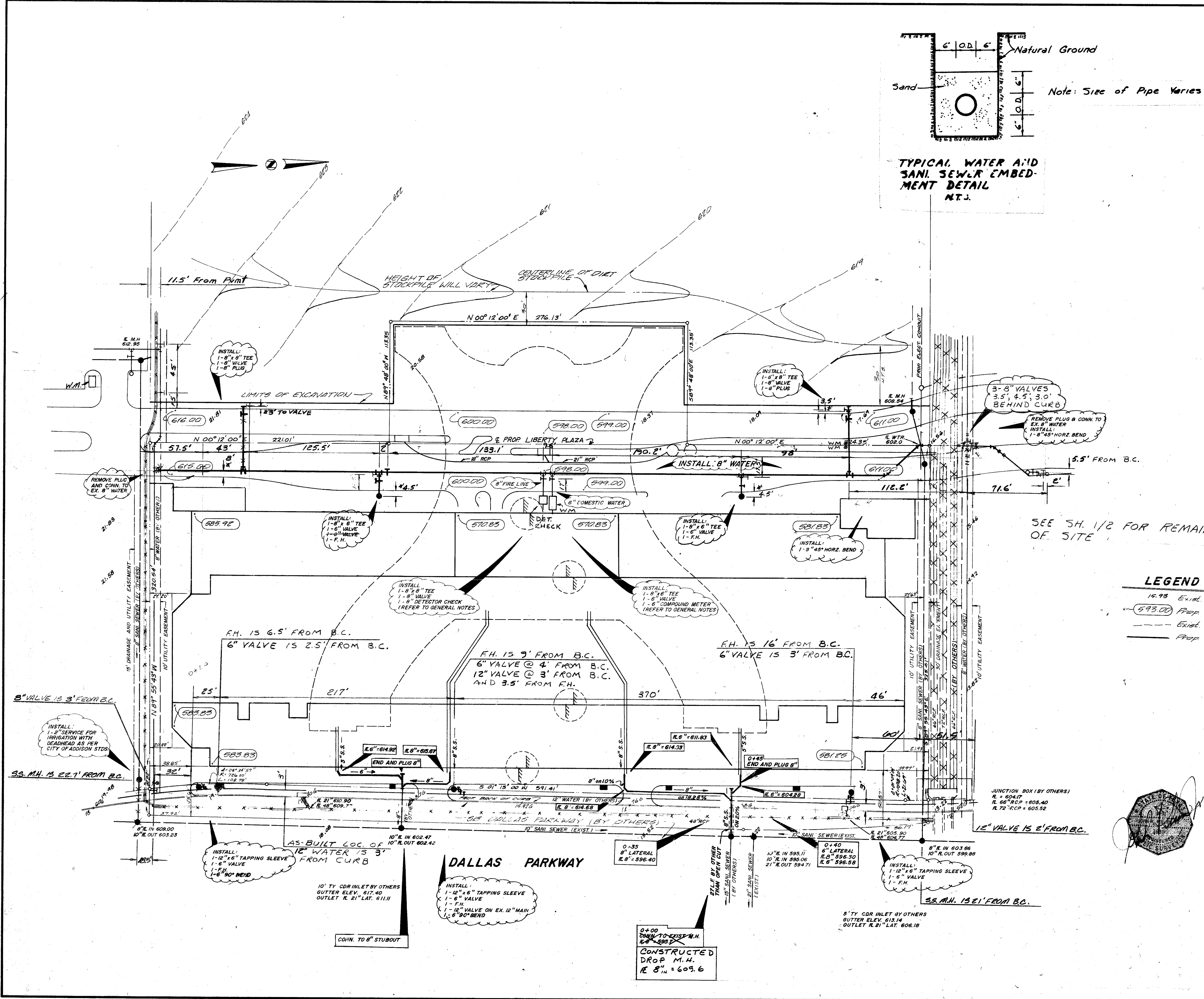
ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY OF ADDISON STANDARDS AND SPECIFICATIONS.
 ALL WATER MAINS SHALL BE PVC 508-18 WATER PIPE (BLUE GRADE WITH WIRE TRACERS), TRACER TO BE #12 INSULATED COPPER.
 ALL WATER MAINS SHALL HAVE MINIMUM COVER BELOW FINISHED GRADE AS FOLLOWS:
 6" & 8" - 48" OR AS REQUIRED TO CLEAR OTHER UTILITIES.
 ALL SEWER MAINS SHALL BE PVC 508-35 SANITARY SEWER PIPE.
 ALL PIPE EMBEDMENT SHALL BE AS DETAILED ON THIS SHEET.
 ALL TEES, CONNECTIONS, BENDS, DEAD-ENDS, FIRE HYDRANTS, ETC., SHALL BE SECURELY BLOCKED AGAINST TRENCH WALLS USING 3000 PSI CONCRETE.
 ALL FIRE HYDRANTS SHALL BE MUELLER CENTERCOURT MODEL AND SHALL CONFORM TO THE CITY OF ADDISON STANDARDS AND SPECIFICATIONS.
 ALL TRENCH BACKFILL FOR THESE UTILITIES SHALL BE COMPACTED AS REQUIRED BY CITY, BUT IN NO CASE SHALL THE TOP 12" BE COMPACTED TO LESS THAN 90% RAHO DENSITY WITH THE REMAINDER OF THE DITCH BEING COMPACTED TO THAT OF ADJOINING SOIL CONDITIONS.
 CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK AND SHALL PROTECT EXISTING IMPROVEMENTS DURING CONSTRUCTION.
 THE 8" FIRE LINE METER SHALL BE HERSEY MODEL D.C. DETECTOR CHECK WITH 2" BYPASS TURNING METER. THE DETECTOR CHECK SHALL BE INSTALLED IN A PRECAST OR CAST-IN-PLACE CONCRETE PIT WITH A CONCRETE FLOOR, WITH THE METER NO LOWER THAN 18" BELOW FINISHED GRADE. THE PIT SHALL BE OF SUFFICIENT SIZE TO REMOVE METER WITHOUT HAVING TO DISASSEMBLE METER. THE DOORS TO THE PIT SHALL BE OF THE "BILCO" TYPE, BUT NOT NECESSARILY OF THAT BRAND.
 THE 6" DOMESTIC WATER METER SHALL BE HERSEY 6" COMPOUND METER MCT WITH 6" BYPASS. THE METER SHALL BE INSTALLED IN A PRECAST OR CAST-IN-PLACE CONCRETE PIT WITH A CONCRETE FLOOR, WITH THE METER NO LOWER THAN 18" BELOW FINISHED GRADE. THE PIT SHALL BE OF SUFFICIENT SIZE TO REMOVE METER WITHOUT HAVING TO DISASSEMBLE METER. THE DOORS TO THE PIT SHALL BE OF THE "BILCO" TYPE, BUT NOT NECESSARILY OF THAT BRAND.
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STORM DRAINAGE GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY OF ADDISON STANDARDS AND SPECIFICATIONS.
2. ALL REINFORCED CONCRETE PIPE SHALL BE MINIMUM CLASS III PIPE WITH TONGUE AND GROOVE JOINTS. RAM NECK SEALER OR APPROVED EQUAL SHALL BE USED IN ALL PIPE JOINTS.
3. STORM DRAINAGE PIPE LESS THAN 15" DIAMETER SHALL BE EXTRA STRENGTH NONREINFORCED CONCRETE PIPE, VERIFIED CLAY PIPE OR PVC PIPE AT THE CONTRACTOR'S OPTION WITH THE ENGINEER'S APPROVAL.
4. WHENEVER A SMALLER PIPE IS JOINTED END-TO-END TO A LARGER PIPE, A CONCRETE COLLAR SHALL BE PLACED AROUND THE JOINT.
5. THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK AND SHALL PROTECT EXISTING IMPROVEMENTS DURING CONSTRUCTION.
6. ALL TRENCH BACKFILL FOR STORM SEWER SHALL BE COMPACTED AS REQUIRED BY CITY, BUT IN NO CASE SHALL THE TOP 12" BE COMPACTED TO LESS THAN 90% STANDARD CONDITIONS.
7. CRUSHED STONE BEDDING OR APPROVED EQUAL WILL BE PROVIDED WHEN ROCK IS ENCOUNTERED IN STORM SEWER TRENCHES.
8. ALL DRAINAGE STRUCTURES SHALL BE 3000 PSI CONCRETE AT 28 DAYS UNLESS OTHERWISE NOTED ON PLANS.



TYPICAL WATER AND SANITARY SEWER EMBEDMENT DETAIL
 N.T.S.



LEGEND

- 16.95 Exst. Spot Elevation
- 693.00 Prop. Spot Elevation
- Exst. Contour
- Prop. Contour

UTILITY INFORMATION IS BASED UPON FIELD MEASUREMENTS AND THE BEST AVAILABLE RECORDS. FIELD DATA IS LIMITED AND DOES NOT PRECLUDE THE EXISTENCE OF OTHER UNDERGROUND ITEMS. RECORD INFORMATION IS BASED UPON DATA COLLECTED FROM BOTH PUBLIC AND PRIVATE SOURCES. THE COMPLETENESS AND/OR ACCURACY OF THESE RECORDS CANNOT BE GUARANTEED EXCEPT INsofar AS THEY CAN BE VERIFIED BY THE FIELD MEASUREMENT.

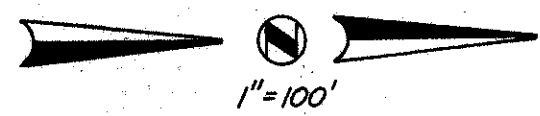
BENCHMARK
 SQUARE CUT ON TOP OF CURB OF ISLAND NE CORNER OF LIBERTY PLAZA
 ELEV. 622.15

WATER & SANITARY SEWER PLAN
SUNBELT CORPORATE HEADQUARTERS
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 3535 Travis Street, Suite 100
 Dallas, Texas 75204 (214) 522-9540

design	drawn	date	scale	notes	job no.	sheet no.
JRD	RT	6/85	1"=40'	JRD	C84187	of

AS-BUILT DATE: 6-20-88

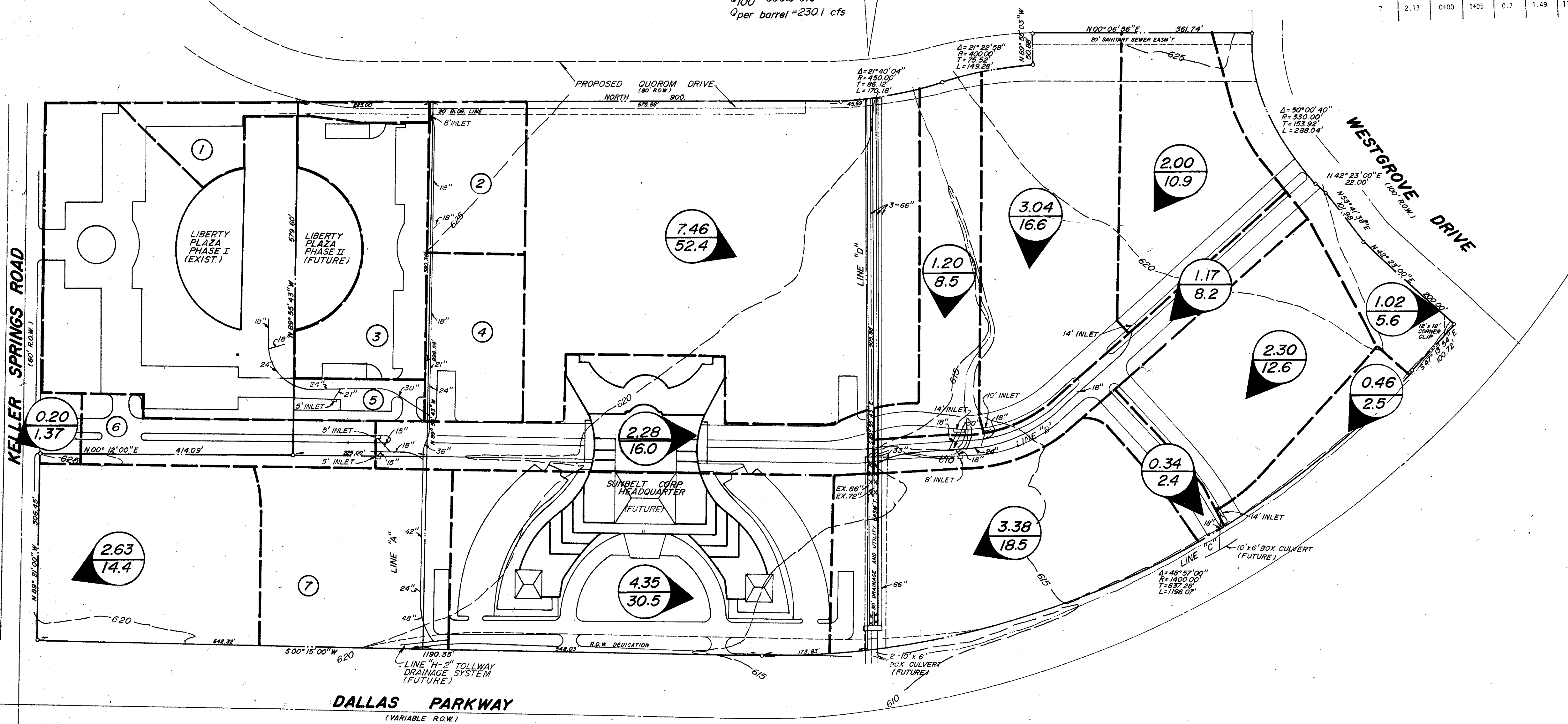
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 consulting engineers
 Civil & Structural Engineering · Surveying
 3535 Travis, Suite 100 • Dallas, Texas 75204 • (214) 522-9540



OFF-SITE DRAINAGE

AREA = 170 Acres
 TC = 227 MIN.
 I₁₀₀ = 5.8 IN./HR.
 C = 0.7
 Q = CIA
 Q₁₀₀ = 690.3 cfs
 Q per barrel = 230.1 cfs

LINE "A"																
D.A. No.	Area (Ac)	From Sta.	To Sta.	C	CA	Inlet Q (cfs)	Acc. CA	Tc (Min)	I100 (In/HR)	Total Q (cfs)	Length (FT)	Pipe Size	Slope (%)	V (Fps)	V _{2/3} G	Remarks
1	1.01	6+11	8+60	0.9	0.91	7.0	0.91	10.0	7.8	7.0	249	18"	0.47	4.0	0.25	5' Rec. Inlet
2	0.85	4+58	6+11	0.9	0.77	6.0	1.68	11.0	7.7	13.0	153	18"	1.60	7.5	0.87	16" Stub-out
3	1.37	4+55	4+58	0.9	1.23	9.6	2.91	11.3	7.6	22.3	3	24"	0.95	7.2	0.80	5' Rec. Inlet
4	0.79	3+80	4+55	0.9	0.71	5.5	3.62	11.4	7.5	27.3	75	24"	1.40	8.6	1.15	Line "A-1"
5	6.74	3+62	3+80	0.9	6.07	47.3	9.69	11.4	7.5	72.8	18	36"	1.10	9.9	1.52	Discharge 36" RCP
5A		3+03	3+62	0.9		9.69	11.5	7.4	7.4	71.7	59	36"	1.02	9.5	1.40	Extend 36" - Slope Change
6	0.97	1+05	3+03	0.9	0.87	6.8	10.56	11.9	7.3	77.1	198	42"	0.50	7.4	0.85	Two 5' Curb Inlets
7	2.13	0+00	1+05	0.7	1.49	11.6	12.05	12.1	7.2	86.8	105	48"	0.50	8.1	1.02	24" STUB-OUT



DRAINAGE CRITERIA

XX = AREA, ACRES
 XX = Q, cfs

Q = CIA
 C = 0.7 or 0.9
 I = 7.8 IN./HR.

- BM No. 1
Square cut on top of curb at the radius return of an island located near the northeast corner of Liberty Plaza I, approximately 639 feet north of the southeast property corner.
Elevation 622.14
- BM No. 2
Chisled square on the end of the curb radius located on the driveway on the north side of Keller Springs Road, approximately 500 feet west of Dallas Parkway.
Elevation 626.24

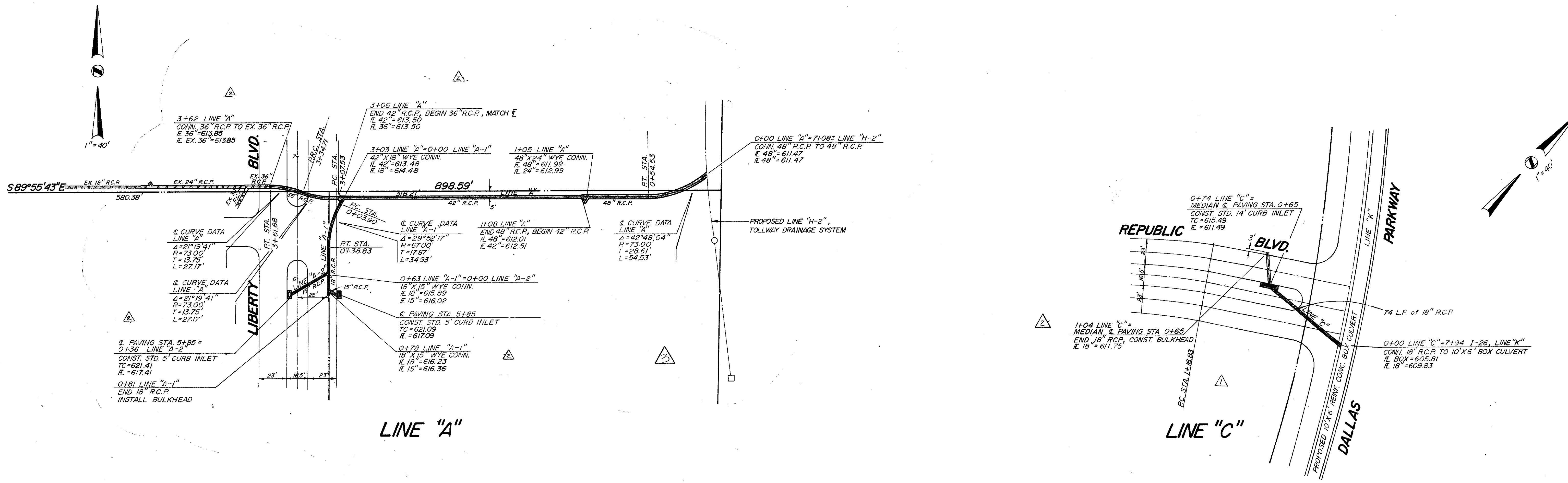
NOTE: BOUNDARY INFORMATION IS FROM A BOUNDARY SURVEY BY GEOGRAM CORP DATED FEBRUARY, 1984.

DRAINAGE AREA MAP
LIBERTY PLAZA

T.F. STONE COMPANIES, INC.
 JACK R. DAVIS & ASSOCIATES-ENGINEERS
 3535 TRAVIS SUITE 100, DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
J.R.D.	J.R.D.	11/13/84	1"=100'	J.R.D.	CB4146T	1 of 14





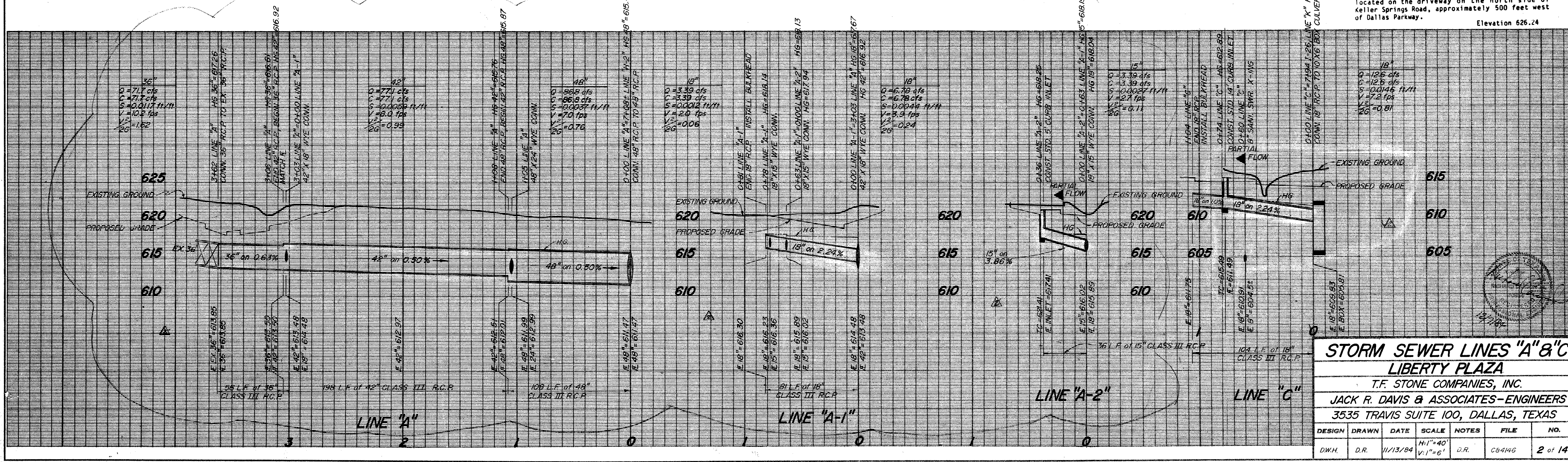
LINE "A"

LINE "C"

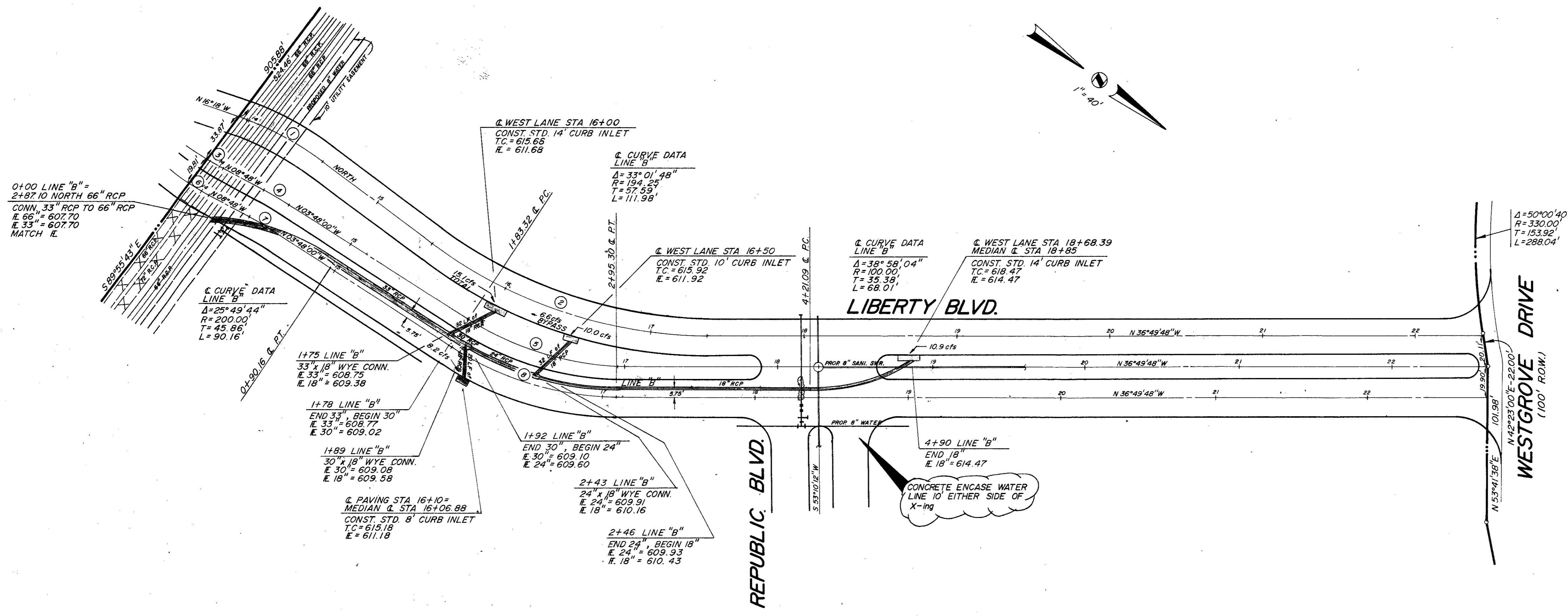
- △ 2-5-85 REVISE GRADES LINE "A"
- △ 1-30-85 REVISE PAVING AND ST. SVE.
- △ 11-19-84 REVISE TO NEW DATA

1M No. 1
Square cut on top of curb at the radius return of an island located near the northeast corner of Liberty Plaza I, approximately 639 feet north of the southeast property corner.
Elevation 622.14

5M No. 2
Chisled square on the end of the curb radius located on the driveway on the north side of Keller Springs Road, approximately 500 feet west of Dallas Parkway.
Elevation 626.24



STORM SEWER LINES "A" & "C"					
LIBERTY PLAZA					
T.F. STONE COMPANIES, INC.					
JACK R. DAVIS & ASSOCIATES-ENGINEERS					
3535 TRAVIS SUITE 100, DALLAS, TEXAS					
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE
DWH	D.R.	11/13/84	H:1"=40' V:1"=6'	D.R.	C84HG
					NO.
					2 of 14

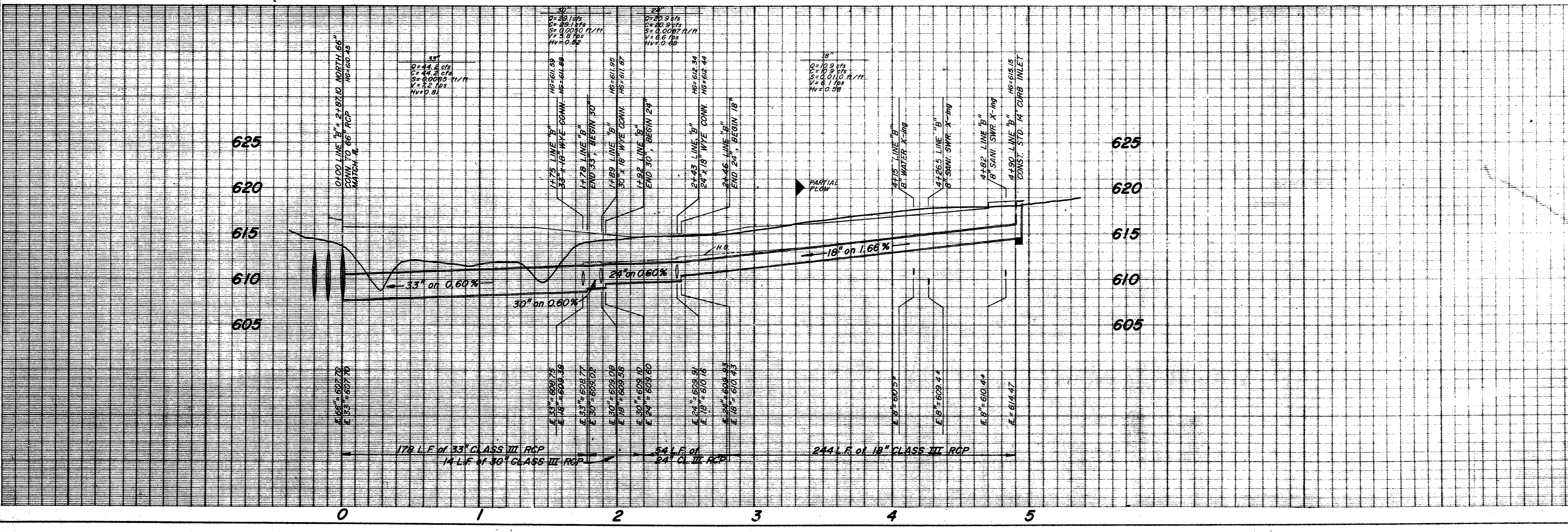


"CURVE DATA"				
NO.	Δ	R	T	L
1	16°18'00"	200.00'	28.64'	56.90'
2	36°49'48"	300.00'	99.88'	192.84'
3	04°00'18"	180.25'	6.30'	12.60'
4	05°00'00"	218.75'	9.59'	19.18'
5	33°01'48"	180.25'	53.44'	103.91'
6	04°29'11"	200.00'	7.83'	15.66'
7	05°00'00"	200.00'	8.73'	17.45'
8	33°01'48"	200.00'	59.30'	115.30'

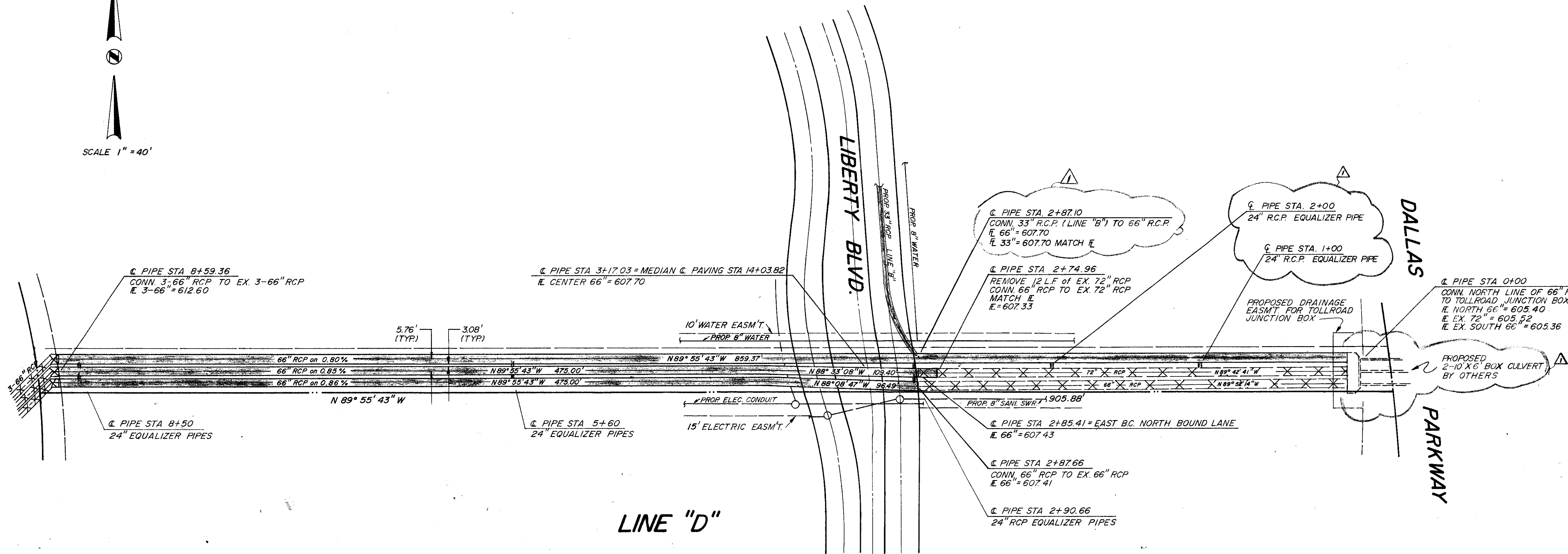
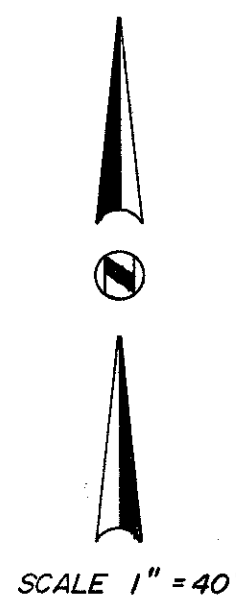
BM NO. 1
SQUARE CUT ON TOP OF CURB AT THE RADIUS RETURN OF AN ISLAND LOCATED NEAR THE NORTHEAST CORNER OF LIBERTY PLAZA 1, APPROXIMATELY 639 FEET NORTH OF THE SOUTHEAST PROPERTY CORNER.
ELEV. 622.14

BM NO. 2
CHISEL SQUARE ON THE END OF THE CURB RADIUS LOCATED ON THE DRIVEWAY ON THE NORTH SIDE OF KELLER SPRINGS ROAD, APPROXIMATELY 500 FEET WEST OF DALLAS PARKWAY.
ELEV. 626.24

BOUNDARY INFORMATION IS FROM A SURVEY BY GEOGRAM CORP. DATED FEB. 1984



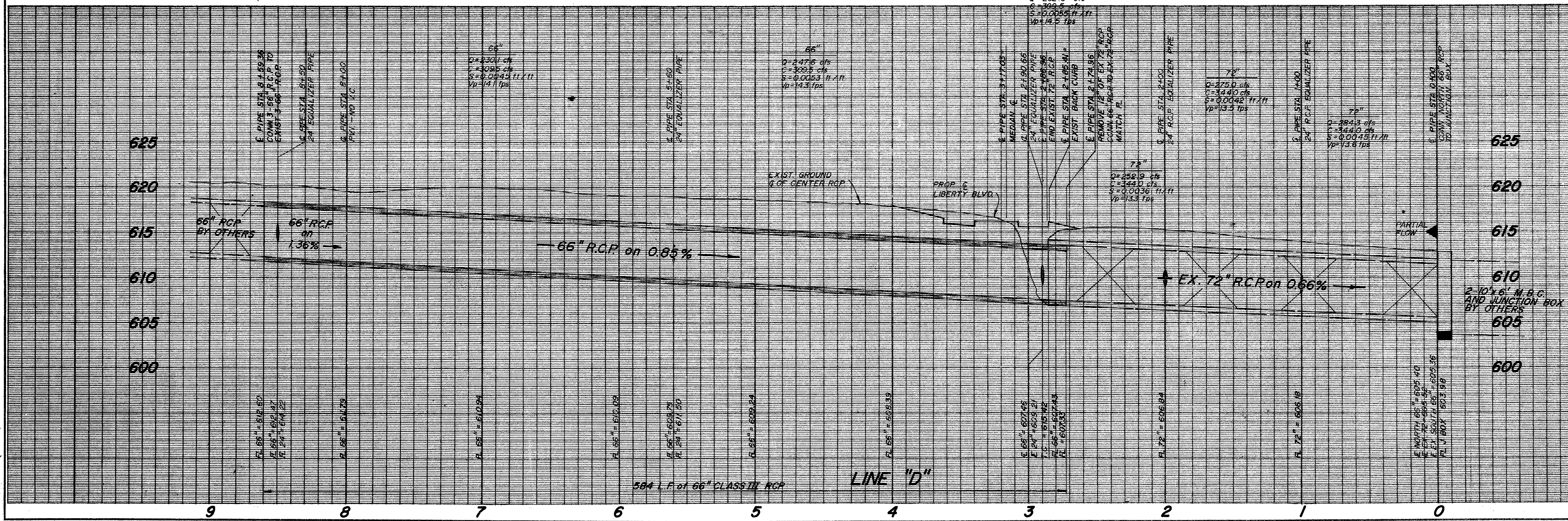
STORM SEWER LINE "B"					
LIBERTY PLAZA					
T.F. STONE COMPANIES, INC.					
JACK R. DAVIS & ASSOCIATES-ENGINEERS					
3535 TRAVIS SUITE 100, DALLAS, TEXAS					
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE
D.W.H.	JAR	1/85	H 1" = 40' V 1" = 6'	D.R.	CB4146
					NO.
					3 of 14



LINE "D"

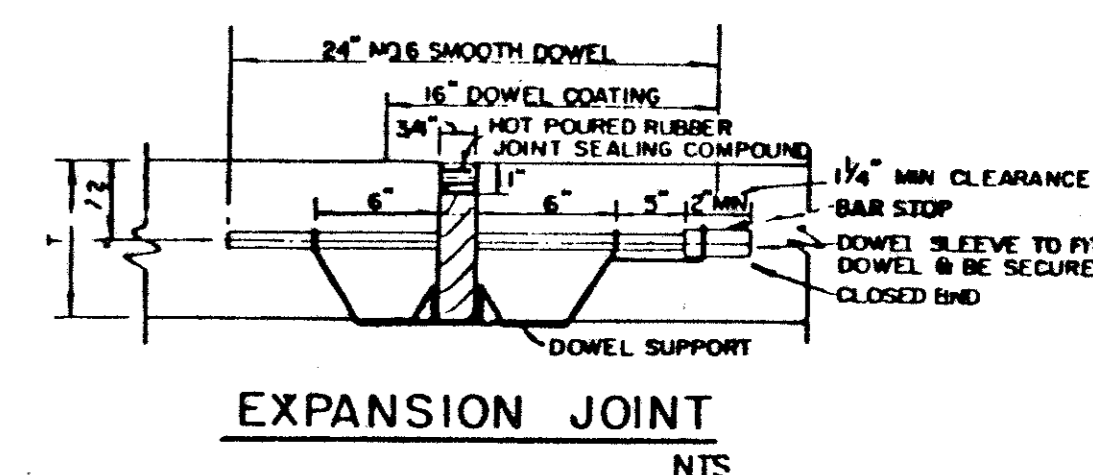
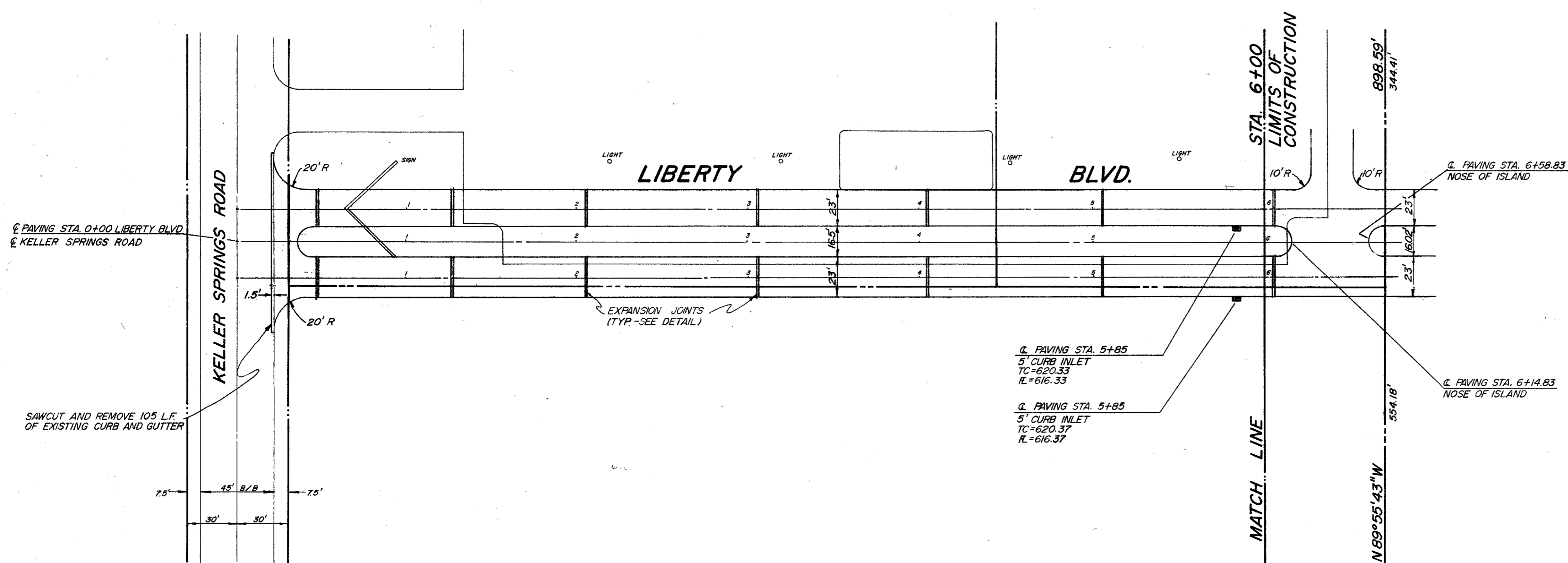
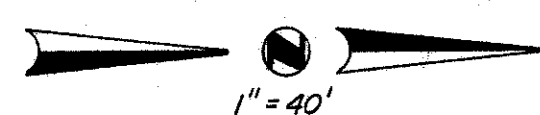
BM No. 1
Square cut on top of curb at the radius return of an island located near the northeast corner of Liberty Plaza I, approximately 639 feet north of the southeast property corner.
Elevation 622.14

BM No. 2
Chisled square on the end of the curb radius located on the driveway on the north side of Keller Springs Road, approximately 500 feet west of Dallas Parkway.
Elevation 626.24



STORM SEWER LINE "D"
LIBERTY PLAZA
 T.F. STONE COMPANIES, INC.
 JACK R. DAVIS & ASSOCIATES-ENGINEERS
 3535 TRAVIS SUITE 100, DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
D.H.	J.A.R.	11/13/84	H-1"=40' V-1"=6'	DR	054146	4 of 14

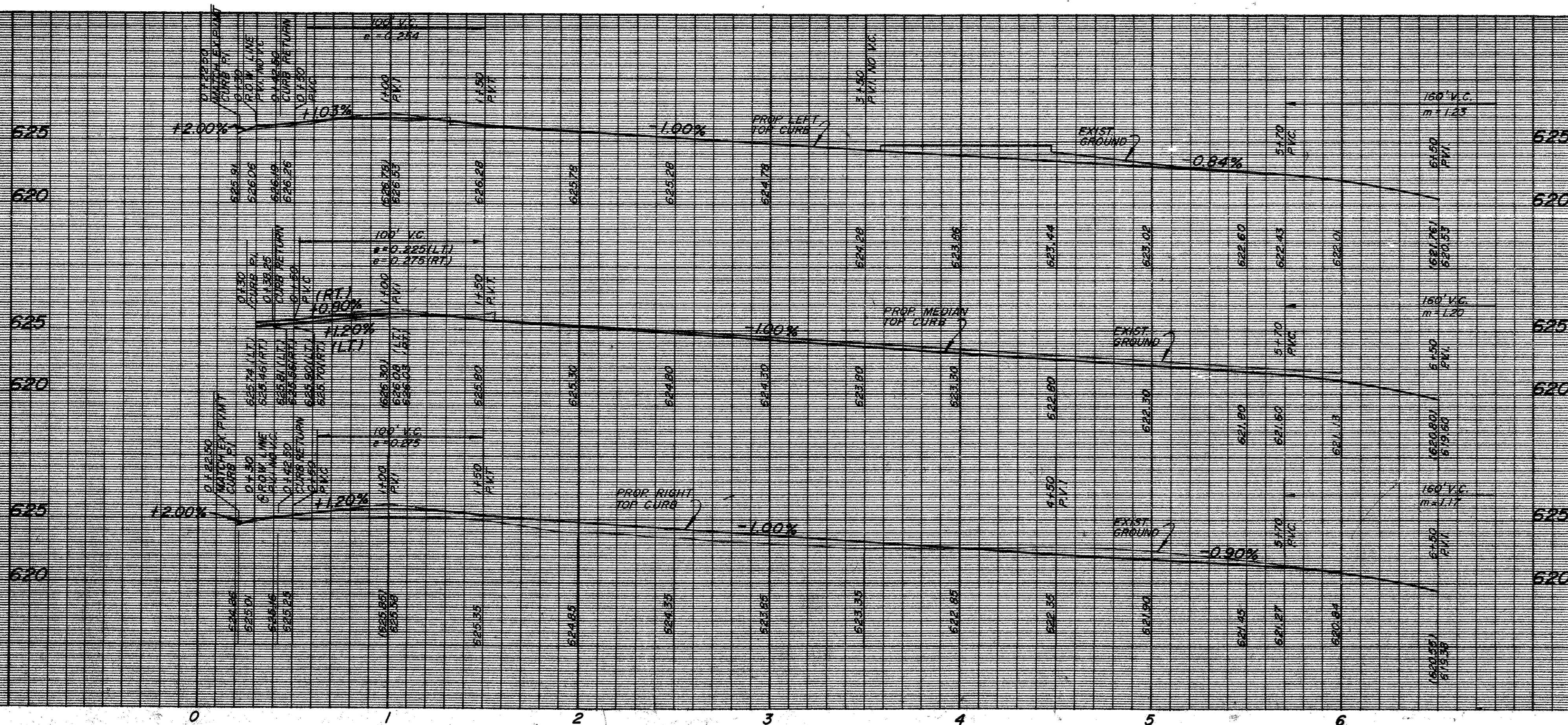


NOTE: FROM Q. PAVING STA. 6+58.83 TO 6+62.83 TRANSITION MEDIAN WIDTH FROM 16.5' TO 16.02'

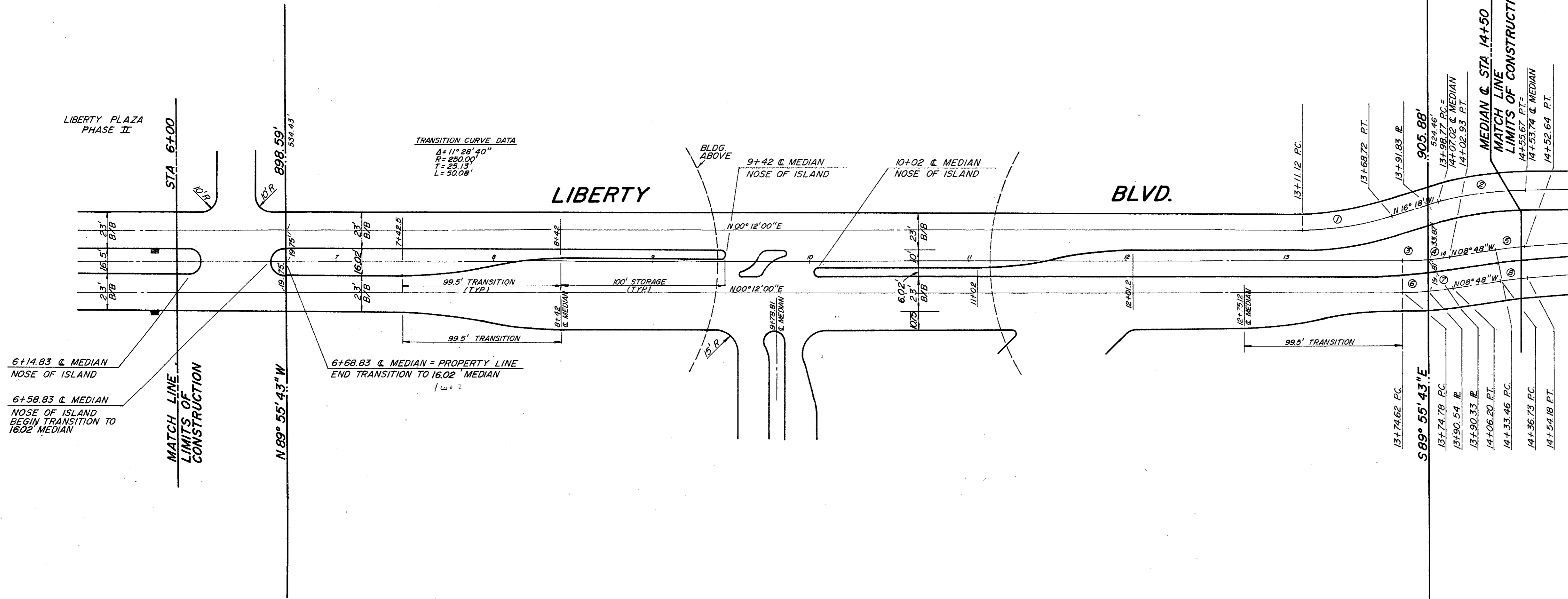
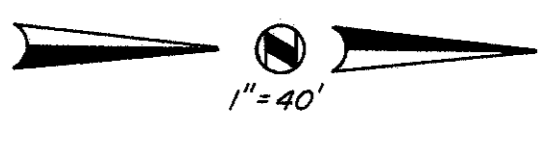
BM No. 1
Square cut on top of curb at the radius return of an island located near the northeast corner of Liberty Plaza I, approximately 639 feet north of the southeast property corner.
Elevation 622.14

BM No. 2
Chisled square on the end of the curb radius located on the driveway on the north side of Keller Springs Road, approximately 500 feet west of Dallas Parkway.
Elevation 626.24

BOUNDARY INFORMATION IS FROM A SURVEY BY GEOGRAM CORP DATED FEB, 1984



LIBERTY BOULEVARD						
LIBERTY PLAZA						
T.F. STONE COMPANIES, INC.						
JACK R. DAVIS & ASSOCIATES-ENGINEERS						
3535 TRAVIS SUITE 100, DALLAS, TEXAS						
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
JRD	REH	JAN.85	H ₁ "=40' V ₁ "=6'	JRD	C84146	6 of 14

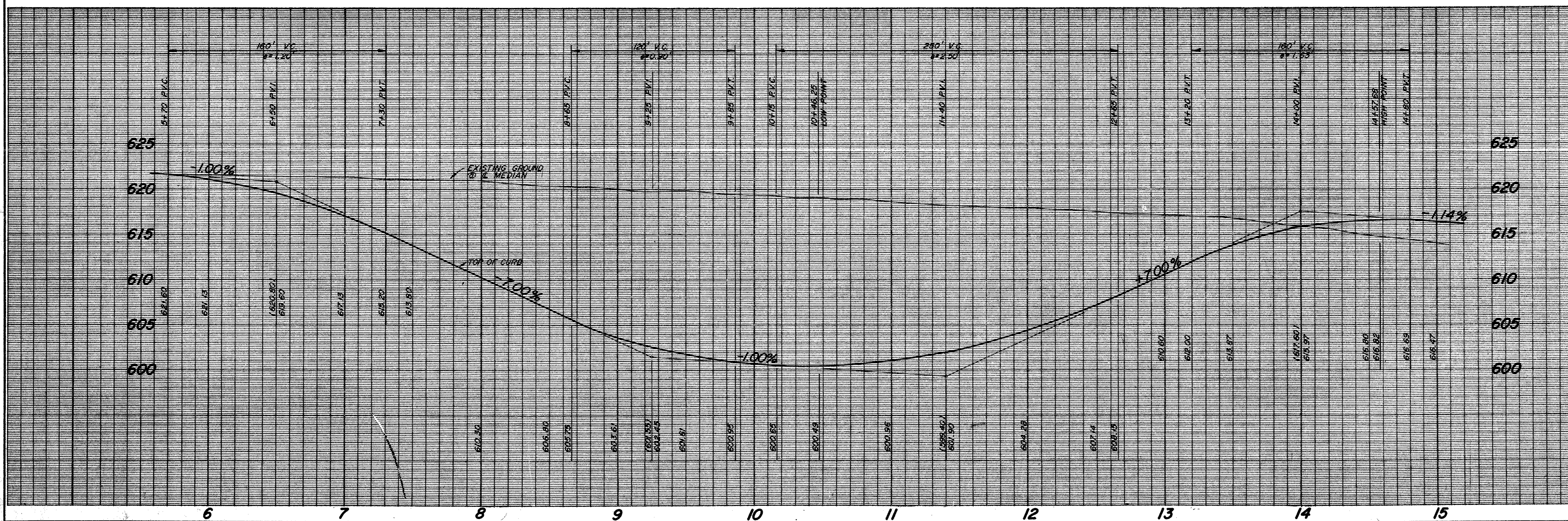


CURVE DATA			
NO.	Δ	R	L
1	16° 30' 00"	200.00'	57.60'
2	16° 18' 00"	200.00'	56.90'
3	04° 59' 42"	180.25'	15.71'
4	04° 00' 18"	180.25'	12.60'
5	05° 00' 00"	219.75'	19.18'
6	04° 30' 49"	200.00'	15.76'
7	04° 29' 11"	200.00'	15.66'
8	05° 00' 00"	200.00'	17.45'

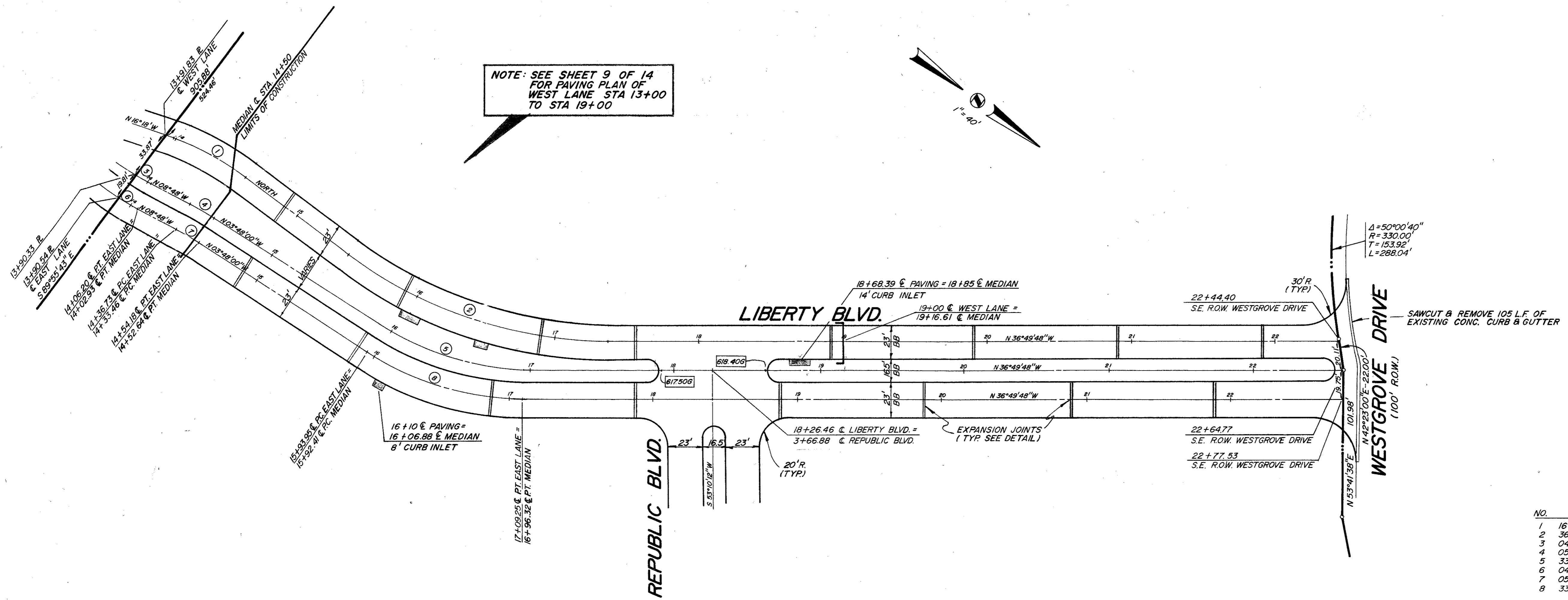
BM NO. 1
 SQUARE CUT ON TOP OF CURB AT THE RADIUS RETURN OF AN ISLAND
 LOCATED NEAR THE NORTHEAST CORNER OF LIBERTY PLAZA I,
 APPROXIMATELY 639 FEET NORTH OF THE SOUTHEAST PROPERTY
 CORNER.
 ELEV. 622.14

BM NO. 2
 CHISEL SQUARE ON THE END OF THE CURB RADIUS LOCATED ON THE
 DRIVEWAY ON THE NORTH SIDE OF KELLER SPRINGS ROAD, APPROXIMATELY
 500 FEET WEST OF DALLAS PARKWAY.
 ELEV. 626.24

BOUNDARY INFORMATION IS FROM A SURVEY
 BY GEORAM CORP. DATED FEB. 1984



LIBERTY BOULEVARD					
LIBERTY PLAZA					
T.F. STONE COMPANIES, INC.					
JACK R. DAVIS & ASSOCIATES-ENGINEERS					
3535 TRAVIS, SUITE 100, DALLAS, TEXAS					
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE
D.H.	J.A.R.	2/85	H-1"=40' V-1"=6'	FG.	C84146T
					NO.
					of



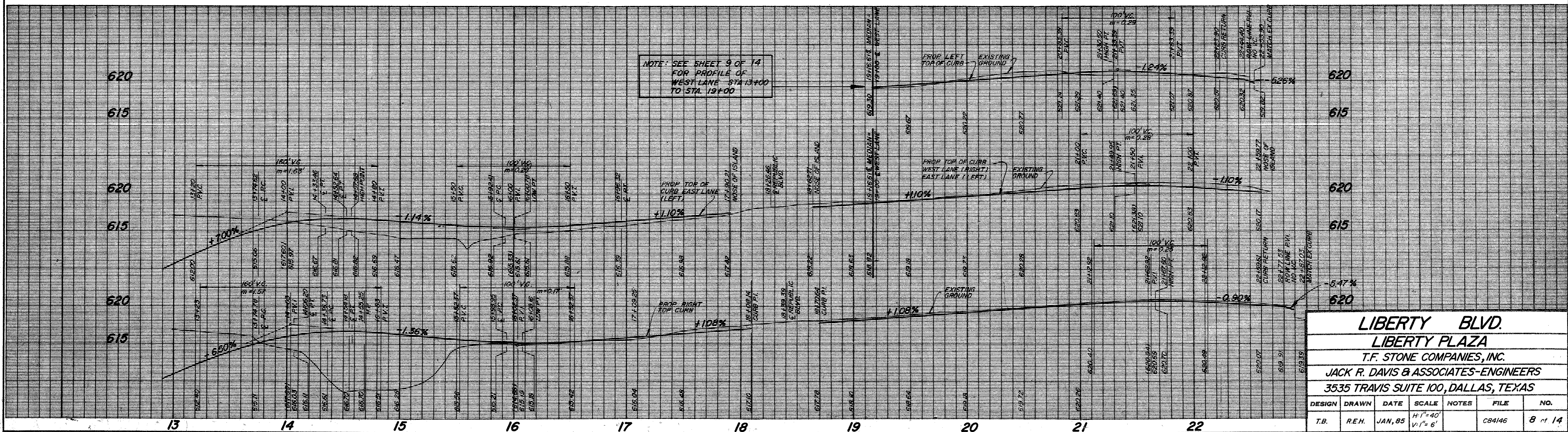
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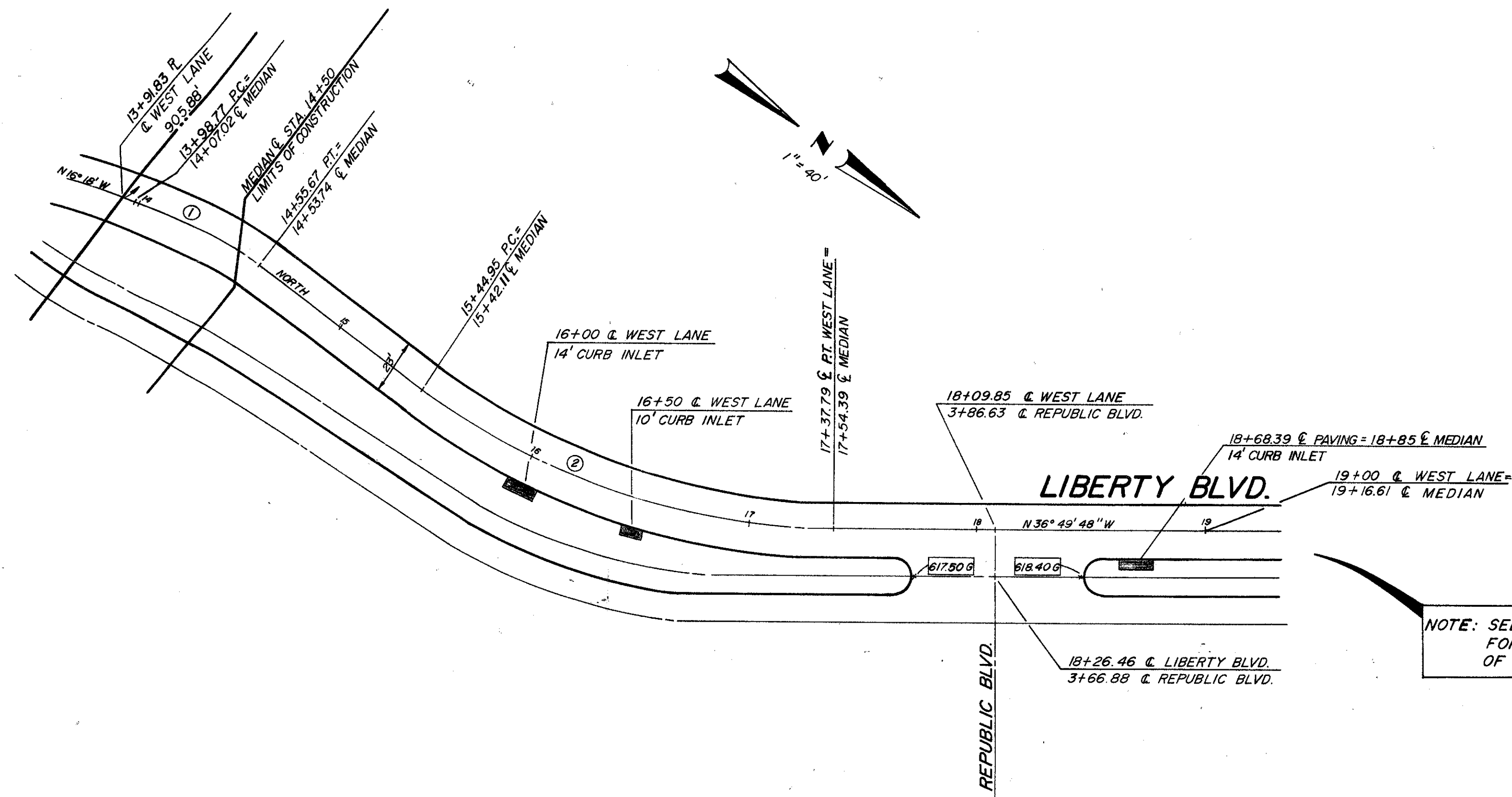
NO.	A	R	T	L
1	16°18'00"	200.00'	28.64'	56.90'
2	36°48'48"	300.00'	99.88'	192.84'
3	04°00'18"	180.25'	6.30'	12.60'
4	03°00'00"	219.75'	9.29'	18.58'
5	33°01'48"	180.25'	53.44'	103.91'
6	04°25'11"	200.00'	7.83'	15.66'
7	03°00'00"	200.00'	8.73'	17.45'
8	33°01'48"	200.00'	59.30'	118.30'

BM NO. 1
 SQUARE CUT ON TOP OF CURB AT THE RADIUS RETURN OF AN ISLAND LOCATED NEAR THE NORTHEAST CORNER OF LIBERTY PLAZA 1, APPROXIMATELY 639 FEET NORTH OF THE SOUTHEAST PROPERTY CORNER.
 ELEV. 622.14

BM NO. 2
 CHISELED SQUARE ON THE END OF THE CURB RADIUS LOCATED ON THE DRIVEWAY ON THE NORTH SIDE OF KELLER SPRINGS ROAD, APPROXIMATELY 500 FEET WEST OF DALLAS PARKWAY.
 ELEV. 626.24

BOUNDARY INFORMATION IS FROM A SURVEY BY GEOGRAM CORP. DATED FEB. 1984



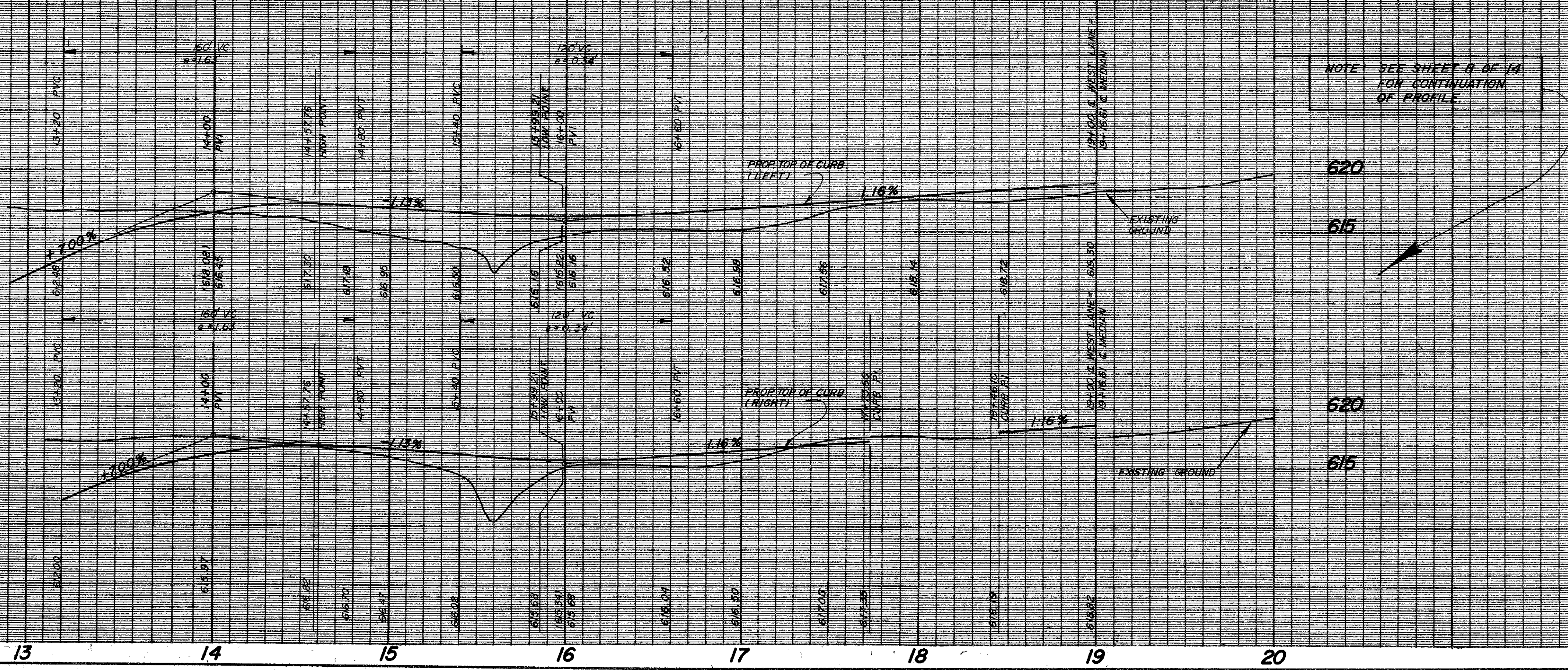


NO.	CURVE DATA	R	T	L
1	16°18'00"	200.00'	28.64'	56.90'
2	36°49'48"	300.00'	59.88'	192.64'

BM NO. 1
 SQUARE CUT ON TOP OF CURB AT THE RADIUS RETURN OF IN ISLAND
 LOCATED NEAR THE NORTHEAST CORNER OF LIBERTY PLAZA 1,
 APPROXIMATELY 639 FEET NORTH OF THE SOUTHEAST PROPERTY
 CORNER.
 ELEV 622.14

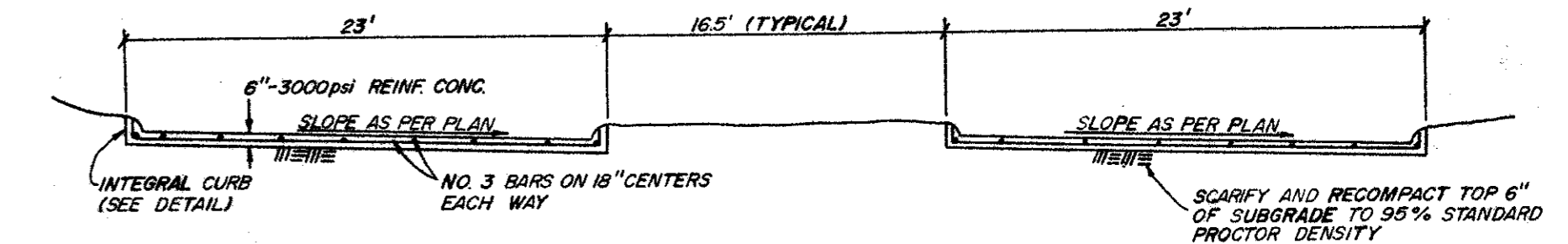
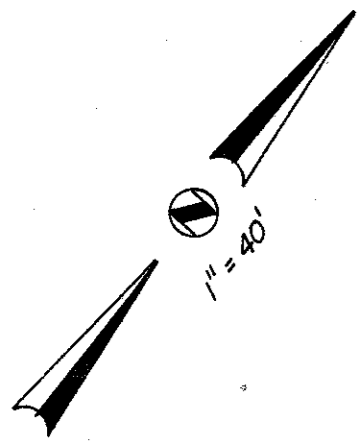
BM NO. 2
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 DRIVEWAY ON THE NORTH SIDE OF KELLER SPRINGS ROAD, APPROXIMATELY
 500 FEET WEST OF DALLAS PARKWAY.
 ELEV 626.24

13 14 15 16 17 18 19 20

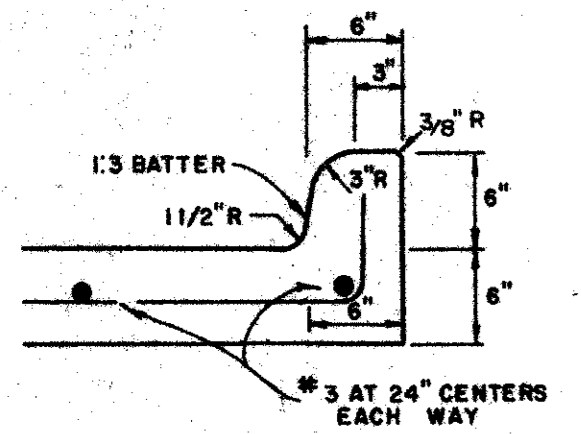


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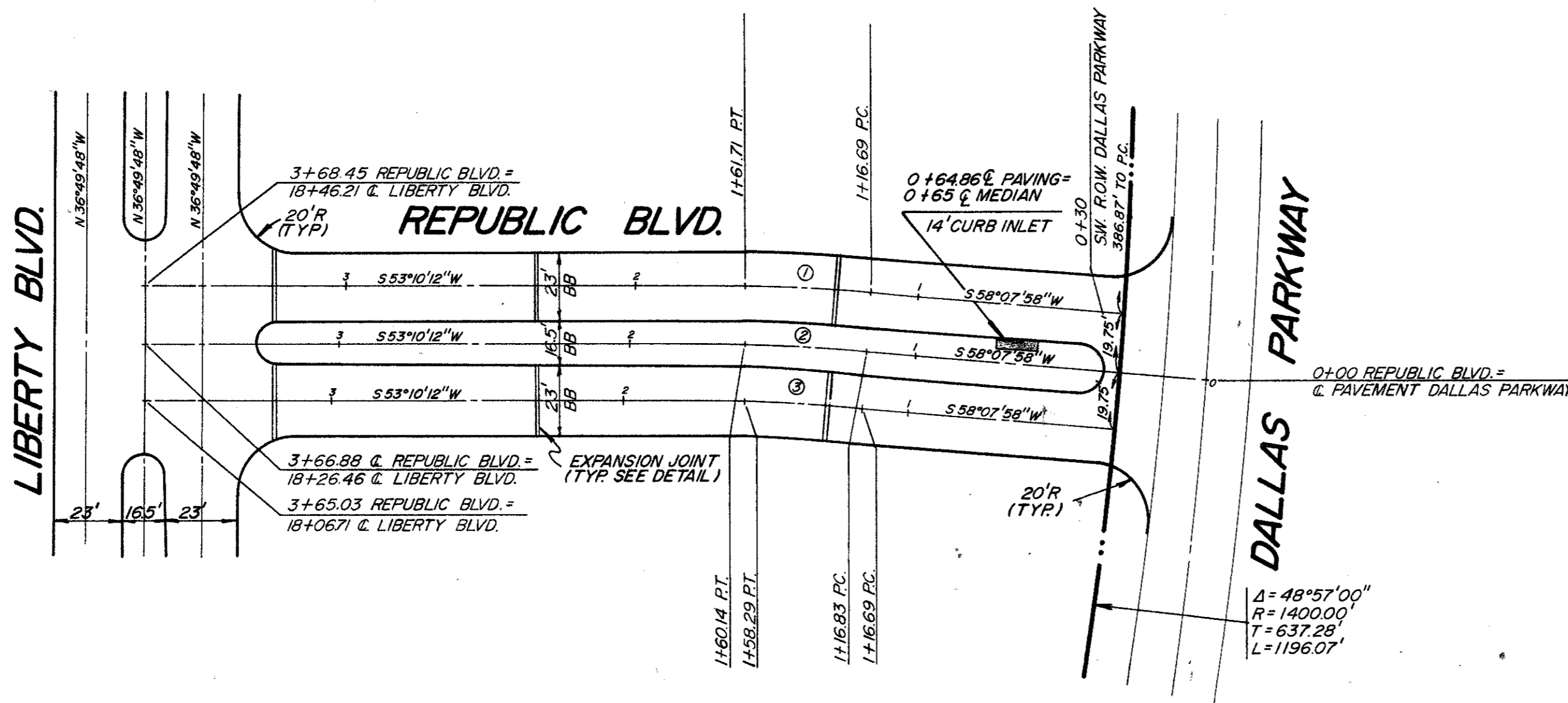
LIBERTY BLVD.					
LIBERTY PLAZA					
T.F. STONE COMPANIES, INC.					
JACK R. DAVIS & ASSOCIATES-ENGINEERS					
3535 TRAVIS, SUITE 100, DALLAS, TEXAS					
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE NO.
	J.S.S.	FEB 85	H 1"=40' V 1"=6'		CB4146T 9 of 14



TYPICAL PAVEMENT SECTION
N.T.S.



INTEGRAL CURB DETAIL
N.T.S.



CURVE DATA

NO.	Δ	R	T	L
1	04°57'46"	519.75'	22.52'	45.02'
2	04°57'46"	500.00'	21.67'	43.31'
3	04°57'46"	480.25'	20.81'	41.60'

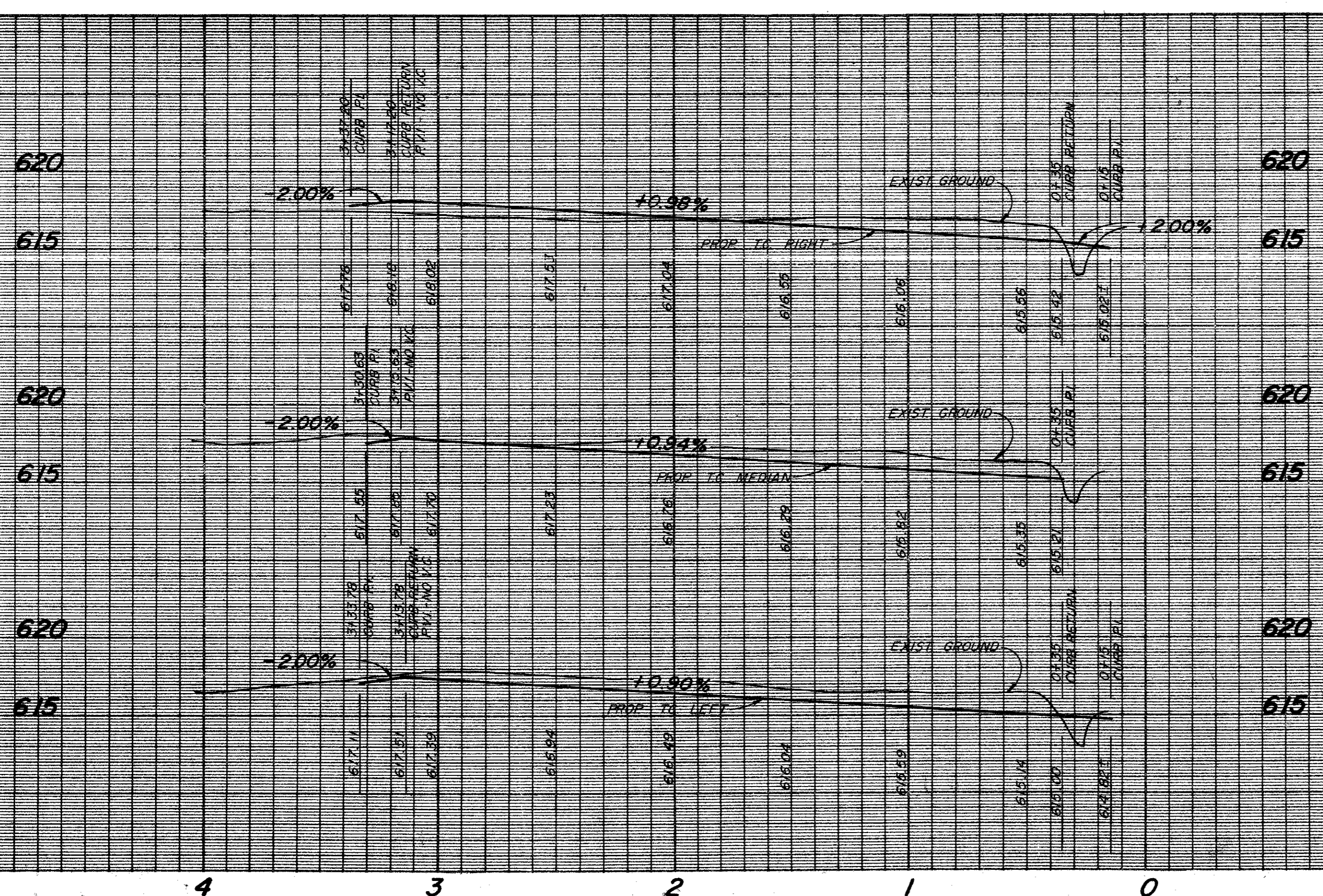
PAVING GENERAL NOTES

- All materials and workmanship shall conform to the City of Addison Standards and Specifications.
- All fill shall be compacted to 95% Proctor Density in a maximum of six (6) inch lifts.
- It will be the responsibility of the Contractor to protect all utilities in the construction of this project. All manholes, cleanouts, valve boxes, fire hydrants, etc., must be adjusted to proper line and grade by the Contractor prior to and after the placing of permanent paving. Utilities must be maintained to proper line and grade during construction of the paving of this development.
- Strip top 3 inches of topsoil and reuse material outside paved area.
- Utility information is based upon field measurements, and the best available records. Field data is limited to that which is visible and can be measured. This does not preclude the existence of other underground items. Record information is based upon data collected from both public and private sources. The completeness and/or accuracy of these records cannot be guaranteed, except insofar as they can be verified by the field measurements.
- Expansion joints shall be placed as shown on the plans.
- Contractor shall saw-cut joints into hardened concrete as soon as surface will not be torn, or otherwise damaged by cutting action. Saw joints shall be spaced with a minimum spacing of 10' and a maximum spacing of 20'.

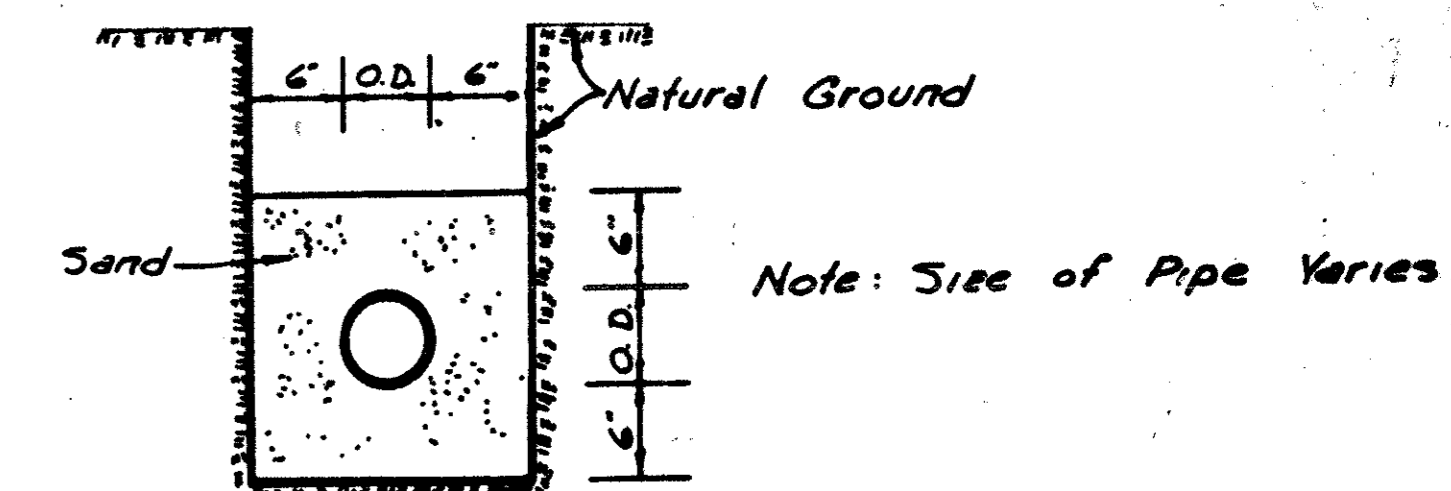
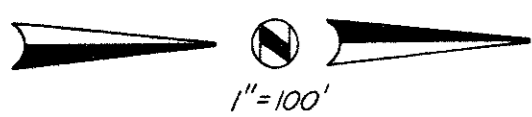
BM NO. 1
SQUARE CUT ON TOP OF CURB AT THE RADIUS RETURN OF AN ISLAND LOCATED NEAR THE NORTHEAST CORNER OF LIBERTY PLAZA APPROXIMATELY 639 FEET NORTH OF THE SOUTHEAST PROPERTY CORNER.
ELEV. 622.14

BM NO. 2
CHISELED SQUARE ON THE END OF THE CURB RADIUS LOCATED ON THE DRIVEWAY ON THE NORTH SIDE OF KELLER SPRINGS ROAD, APPROXIMATELY 500 FEET WEST OF DALLAS PARKWAY.
ELEV. 626.24

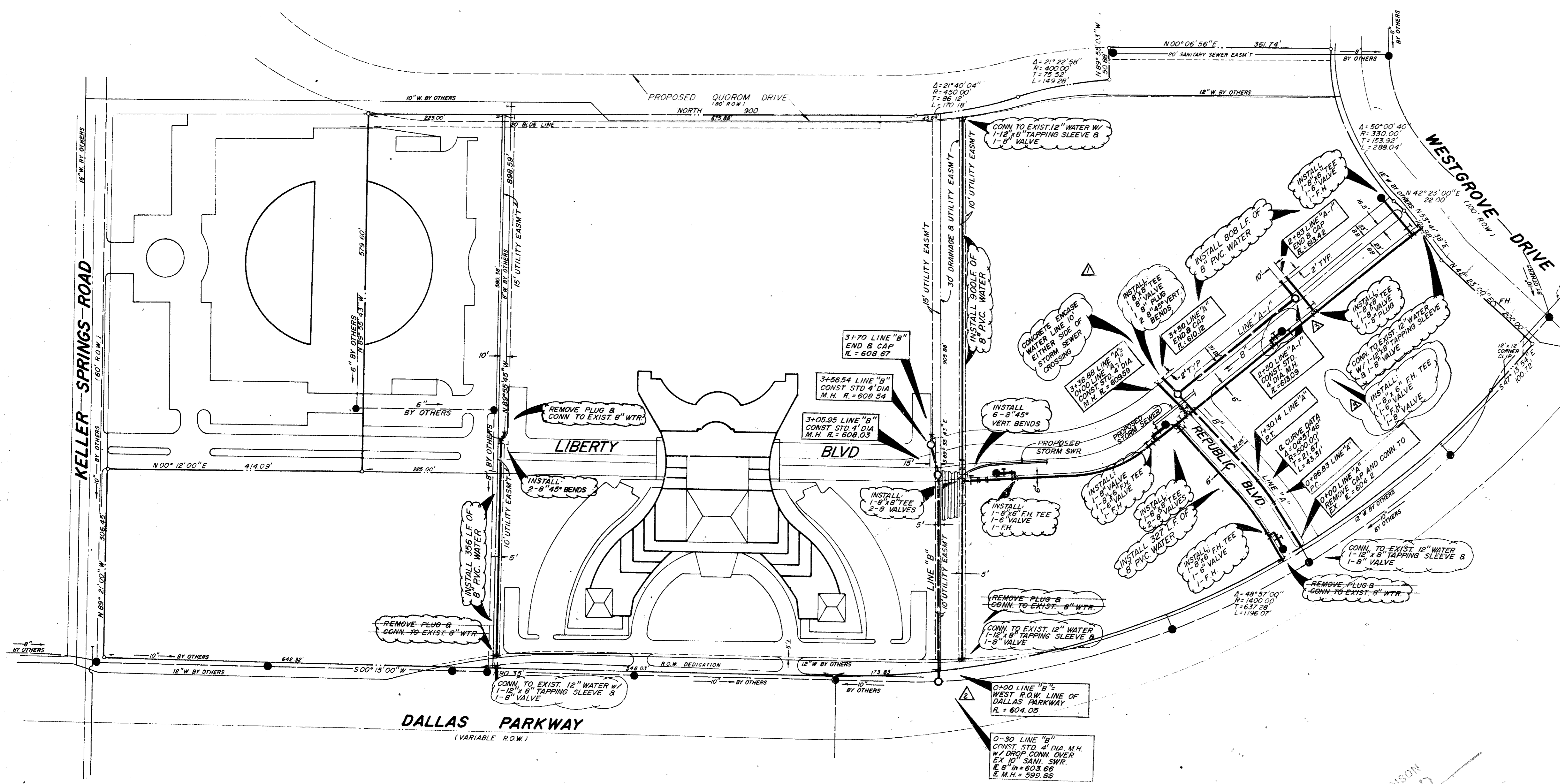
BOUNDARY INFORMATION IS FROM A SURVEY BY GEOGRAM CORP. DATED FEB. 1984



REPUBLIC BLVD.					
LIBERTY PLAZA					
T.F. STONE COMPANIES, INC.					
JACK R. DAVIS & ASSOCIATES-ENGINEERS					
3535 TRAVIS SUITE 100, DALLAS, TEXAS					
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE
D.H.	D.M.	JAN.85	H:V = 40:6'	J.R.D.	C84146
					NO. 10 of 14



TYPICAL WATER AND SANI. SEWER EMBEDMENT DETAIL N.T.S.



WATER AND SANITARY SEWER GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY OF ADDISON STANDARDS AND SPECIFICATIONS.
2. ALL WATER MAINS SHALL BE PVC SDR-18 WATER PIPE (BLUE BRUTE WITH WIRE TRACERS). TRACER TO BE #12 INSULATED COPPER.
3. ALL WATER MAINS SHALL HAVE MINIMUM COVER BELOW FINISHED GRADES AS FOLLOWS: 6" & 8" - 48" OR AS REQUIRED TO CLEAR OTHER UTILITIES.
4. ALL SEWER MAINS SHALL BE PVC SDR-35 SANITARY SEWER PIPE.
5. ALL PIPE EMBEDMENT SHALL BE AS DETAILED ON THIS SHEET.
6. ALL TEES, CONNECTIONS, BENDS, DEAD-ENDS, FIRE HYDRANTS, ETC., SHALL BE SECURELY BLOCKED AGAINST TRENCH WALLS USING 2000 PSI CONCRETE.
7. ALL TRENCH BACKFILL FOR THESE UTILITIES SHALL BE COMPACTED AS REQUIRED BY CITY, BUT IN NO CASE SHALL THE TOP 12" BE COMPACTED TO LESS THAN 90% AASHTO DENSITY WITH THE REMAINDER OF THE DITCH BEING COMPACTED TO THAT OF ADJOINING SOIL CONDITIONS.
8. CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK AND SHALL PROTECT EXISTING IMPROVEMENTS DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL INCLUDE IN HIS BID PRICE ALL COSTS OF UTILITY CONNECTIONS, TAP FEES AND THE TESTING OF NEW MAINS REQUIRED BY THE CITY OF ADDISON TO COMPLETE THE WORK WHETHER THESE SERVICES ARE PERFORMED BY THE CONTRACTOR OR BY OTHERS.

CITY OF ADDISON APPROVED
 3-14-85
 BUILDING DEPARTMENT
 DATE: 3-14-85
 TIME: 10:00 AM
 PLACE: CITY OF ADDISON, TEXAS
 I HEREBY CERTIFY THAT THE ABOVE IS A TRUE AND CORRECT COPY OF THE ORIGINAL AS SUBMITTED TO THIS OFFICE.
 THE SIGNATURE OF THE ENGINEER OR SURVEYOR SHALL NOT BE VALID UNLESS IT IS ACCOMPANIED BY HIS SEAL.

Richard C. Davis
 3/12/85

NOTE: BOUNDARY INFORMATION IS FROM A BOUNDARY SURVEY BY GEOGRAM CORP DATED FEBRUARY, 1984

- ▲ ADD. FH 3-13-85
- ▲ REVISED LINE "B" 3-11-85
- ▲ ROUTE WATERLINE UNDER STORM SEWER 1-30-85

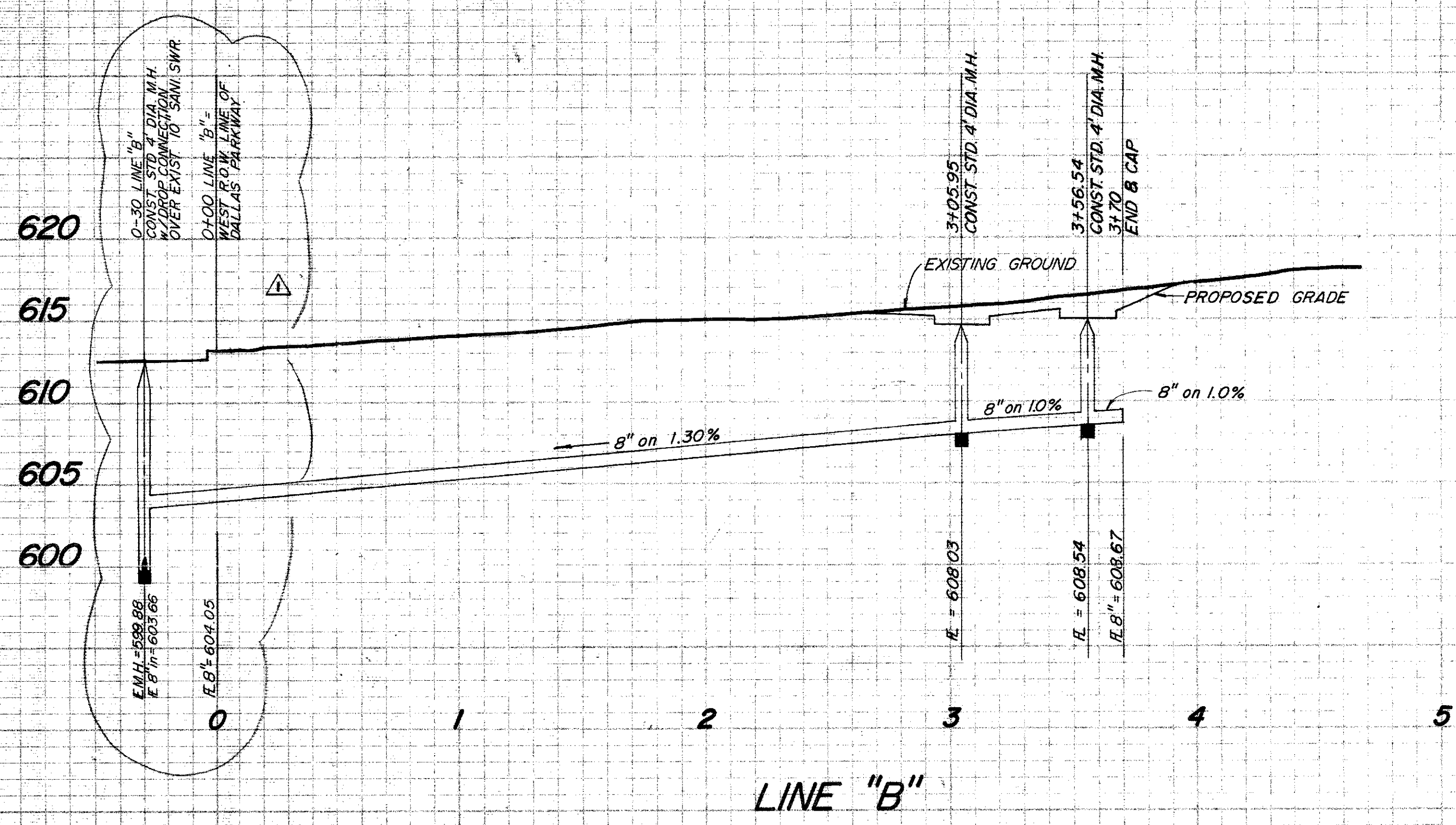
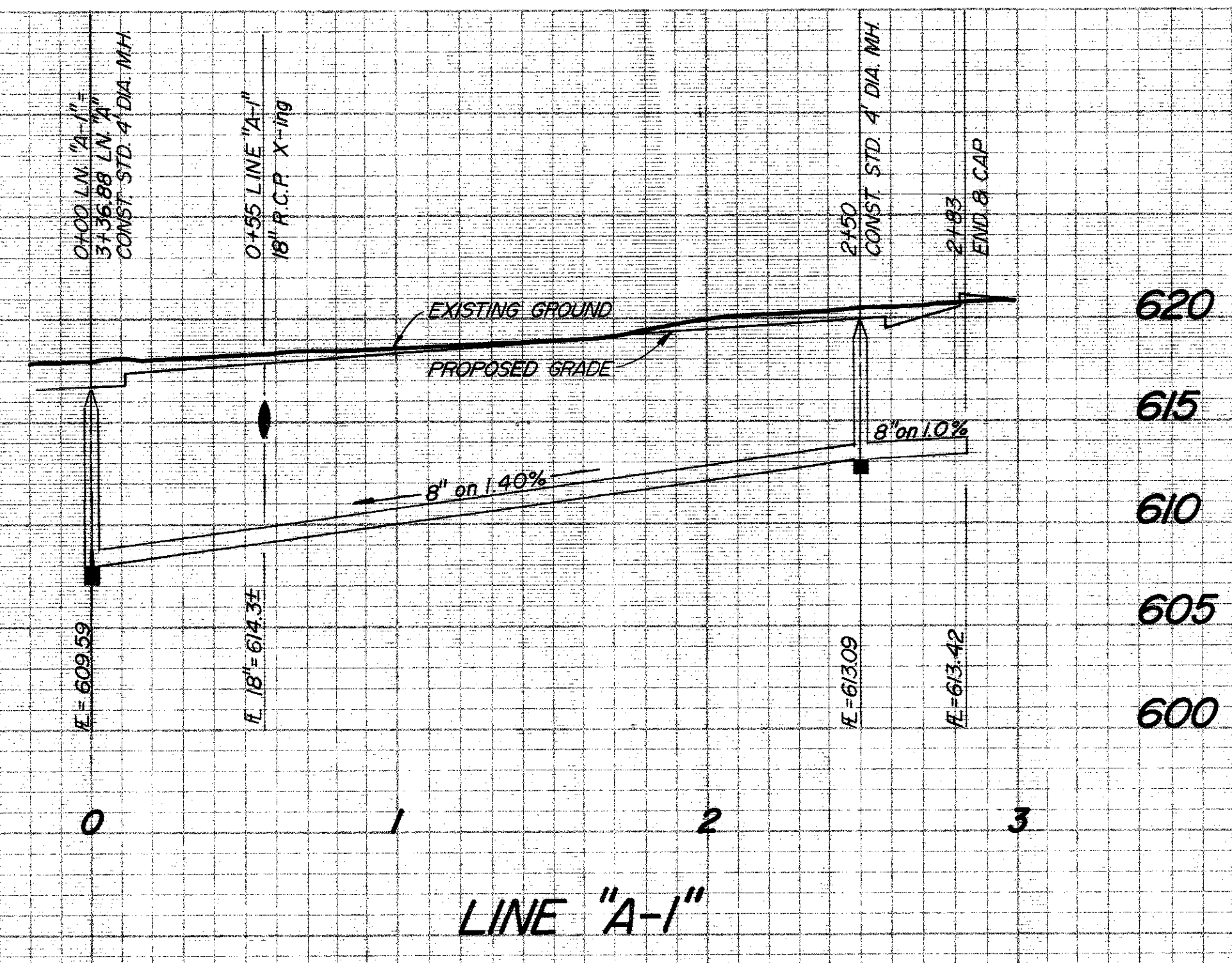
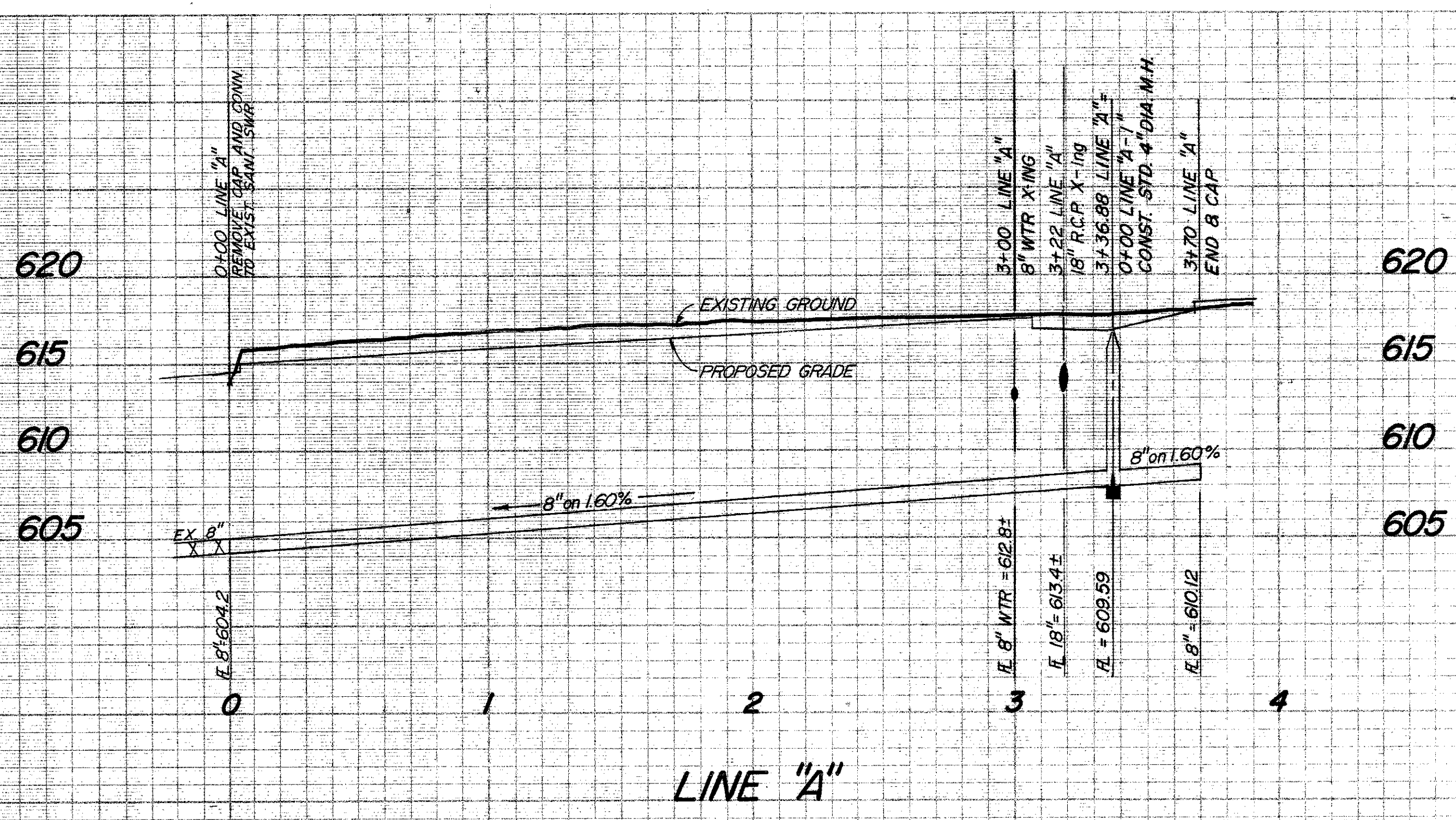
BM No. 1
 Square cut on top of curb at the radius return of an island located near the northeast corner of Liberty Plaza I, approximately 639 feet north of the southeast property corner.
 Elevation 622.14

BM No. 2
 Chisled square on the end of the curb radius located on the driveway on the north side of Keller Springs Road, approximately 500 feet west of Dallas Parkway.
 Elevation 626.24

WATER & SANI SWR PLAN
 LIBERTY PLAZA

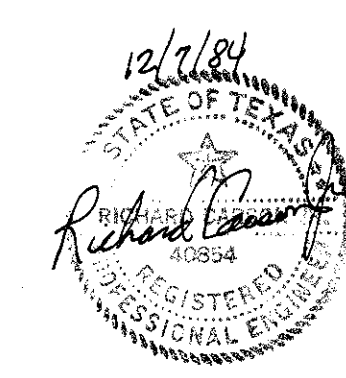
JACK R. DAVIS & associates, inc.
 consulting civil engineers & surveyors
 2902 Carlisle Street Dallas, Texas 75204

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO
JRD	JRD	6/84	1"=100'	JRD	C84146T	11 of 14



0'-30" LINE "B" 0'-30" LINE "B" OVER EXIST. TO SANITARY
 0'-00" LINE "B" WEST ROW LINE OF DALLAS PARKWAY

REVISOR LINE "B"
 3-11-85

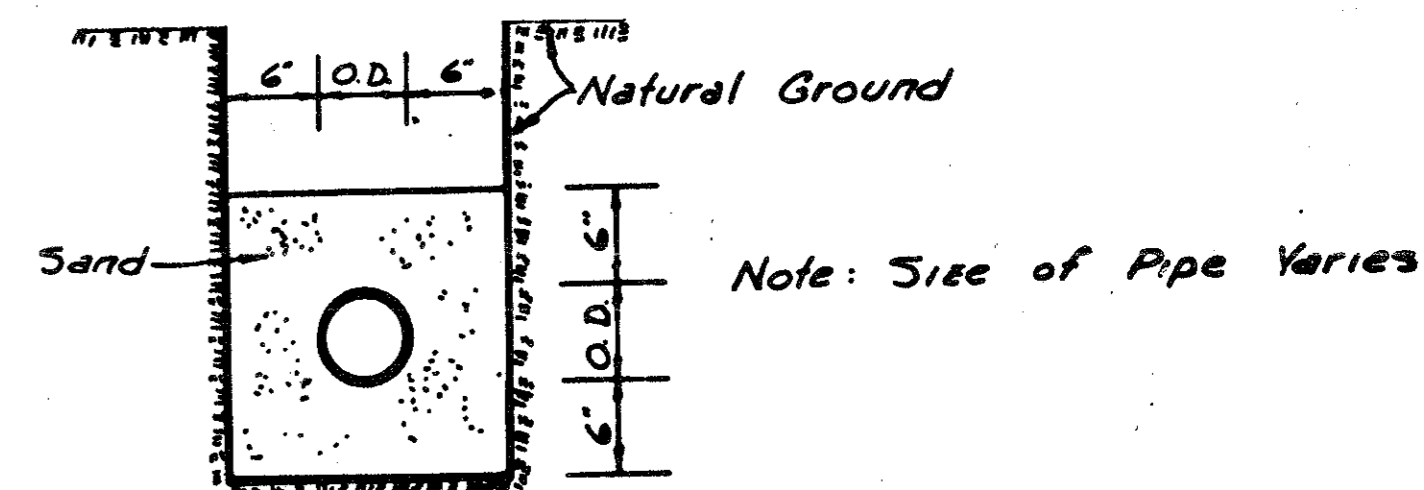
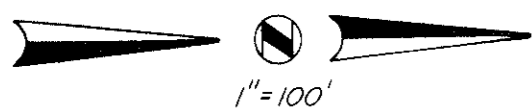


BM No. 1
 Square cut on top of curb at the radius return of an island located near the northeast corner of Liberty Plaza 1, approximately 639 feet north of the southeast property corner. Elevation 622.14

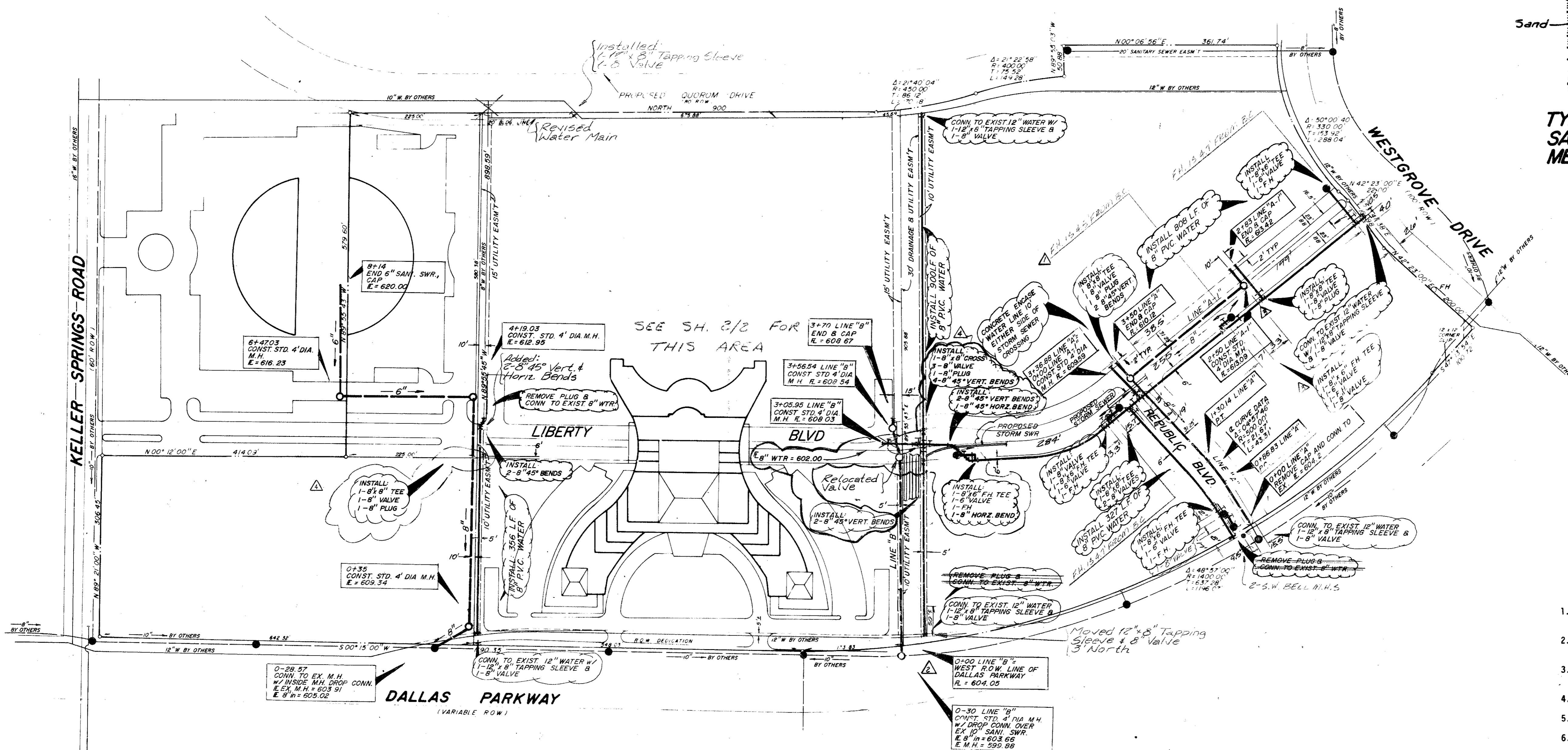
BM No. 2
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SANITARY SEWER PROFILES
LIBERTY PLAZA
 JACK R. DAVIS & ASSOCIATES-ENGINEERS
 3535 TRAVIS SUITE 100, DALLAS, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
	DJR		H:1"=40' V:1"=6"	DR	C84146	12 of 14

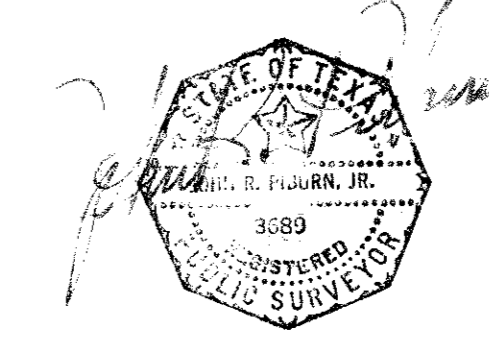


TYPICAL WATER AND SANI. SEWER EMBEDMENT DETAIL
N.T.S.



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NOTE BOUNDARY INFORMATION IS FROM A BOUNDARY SURVEY BY GEOGRAM CORP DATED FEBRUARY, 1984



AS-BUILT DATE: 6-20-88

WATER & SANI. SWR PLAN

LIBERTY PLAZA

B BROCKETTE-DAVIS-DRAKE, inc.
consulting engineers

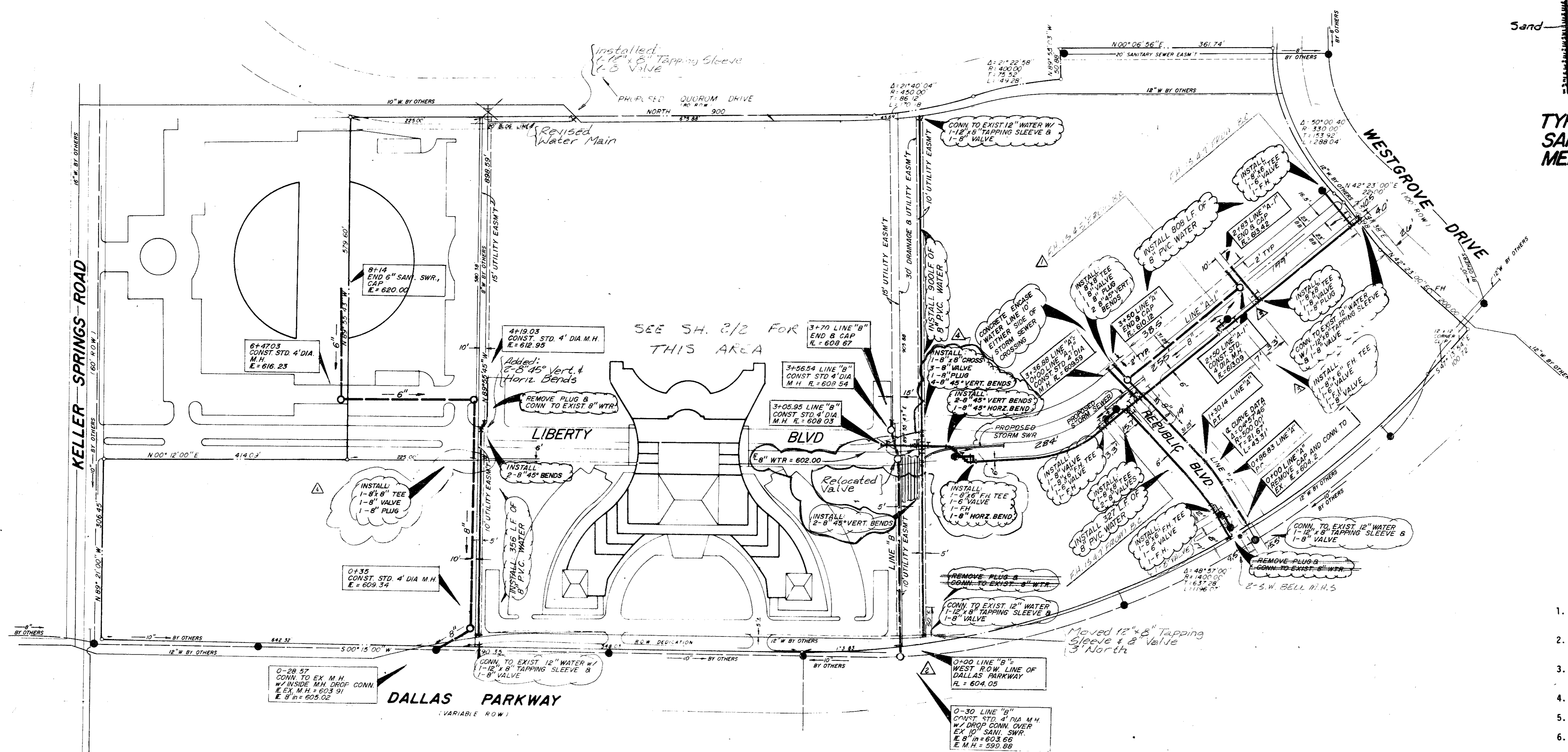
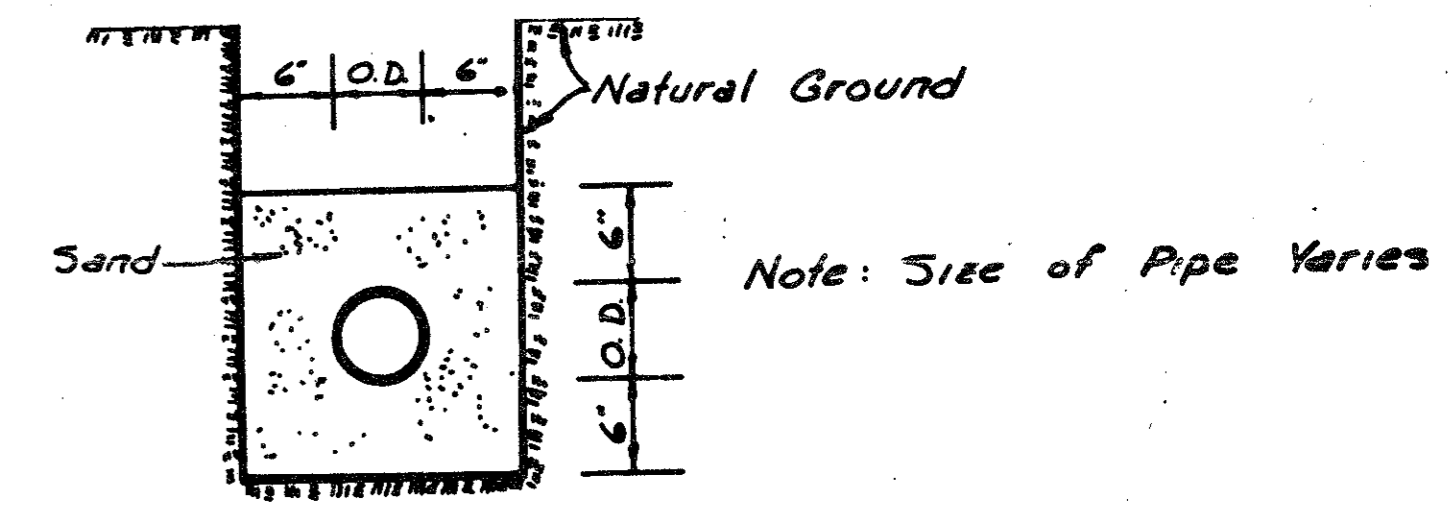
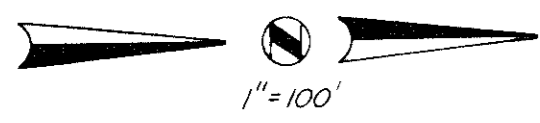
Civil & Structural Engineering • Surveying
3535 Travis, Suite 100 • Dallas, Texas 75204 • (214) 522-9540

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO
JRD	JRD	6/84	1"=100'	JRD	CB4146T	12 of 16

- ▲ REVISED WATER LINE 4-03-85
- ▲ ADD. F.H. 3-13-85
- ▲ REVISED LINE "B" 3-11-85
- ▲ ROUTE WATERLINE UNDER STORM SEWER 1-30-85

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Elevation 622.14

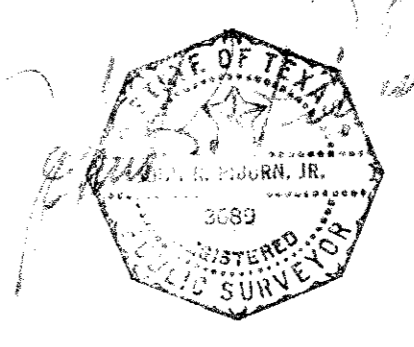
BM No. 2
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Elevation 626.24



WATER AND SANITARY SEWER GENERAL NOTES

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AS-BUILT DATE: 6-20-88

WATER & SANI. SWR. PLAN

LIBERTY PLAZA

BROCKETTE DAVIS DRAKE, inc.
consulting engineers

Civil & Structural Engineering • Surveying
3535 Travis, Suite 100 • Dallas, Texas 75204 • (214) 522-9540

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO
JRD	JRD	6/84	1"=100'	JRD	CB4146T	12 of 16

- ▲ REVISED WATER LINE 4-09-85
- ▲ ADD. FH 3-13-85
- ▲ REVISED LINE "B" 3-11-85
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