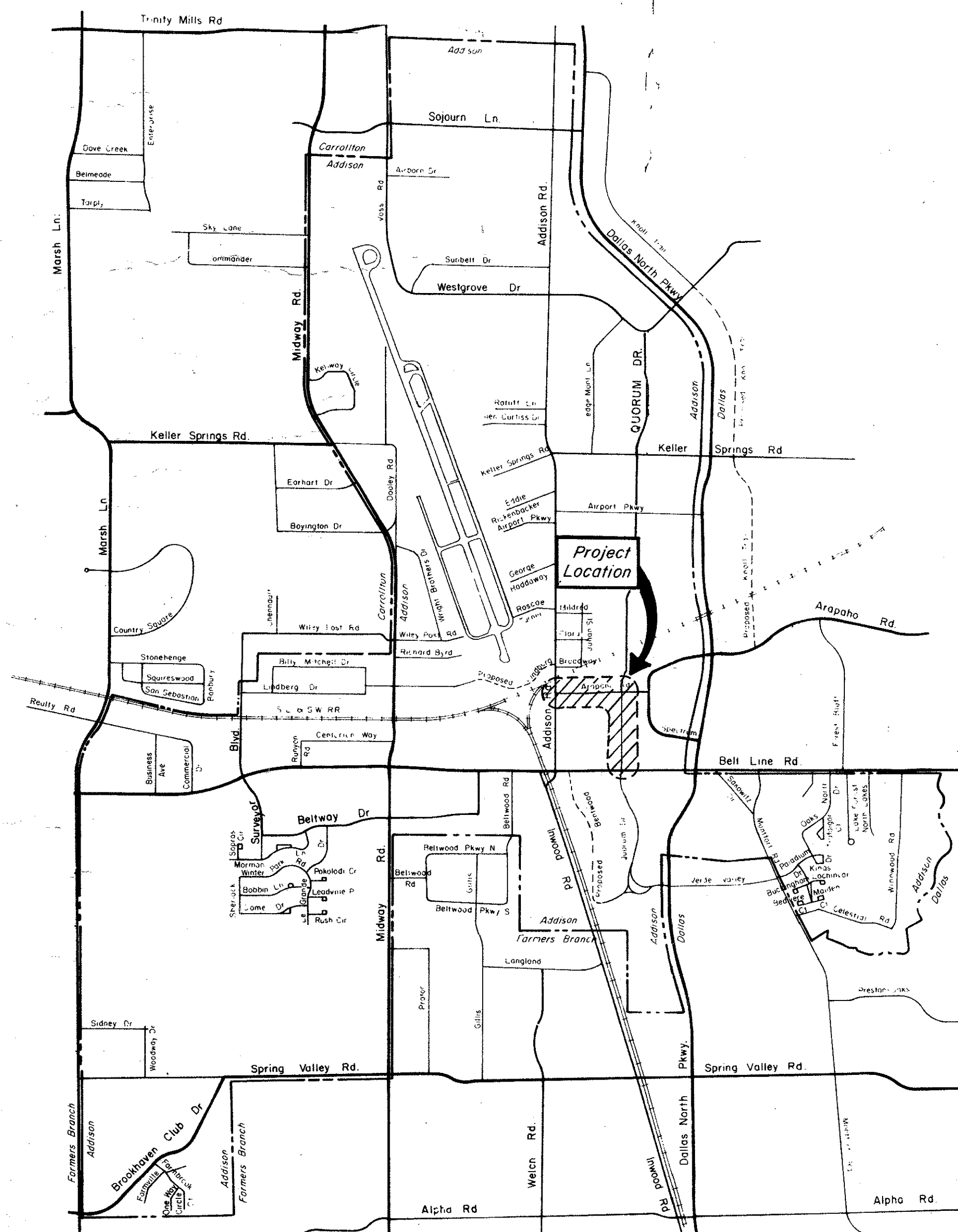


CITY OF ADDISON DALLAS COUNTY, TEXAS

CONSTRUCTION PLANS FOR: ARAPAHO ROAD / QUORUM DRIVE IMPROVEMENTS

PROJECT LENGTH: ARAPAHO ROAD 1190'±
QUORUM DRIVE 1301'±



CITY OF ADDISON

Mayor:
Jerry J. Redding
Council Members:
John B. Allen
Richard Roder
Barry Finkelstein
Stewart Beatty
Greg Cole
City Manager:
Ron Whitehead



GINN INC.
CONSULTING ENGINEERS
DALLAS, TEXAS
DECEMBER, 1983

CITY OF ADDISON

Approved By: _____

Mayor

Date

B2-2

ARAPAHO/QUORUM CONST. 12/83

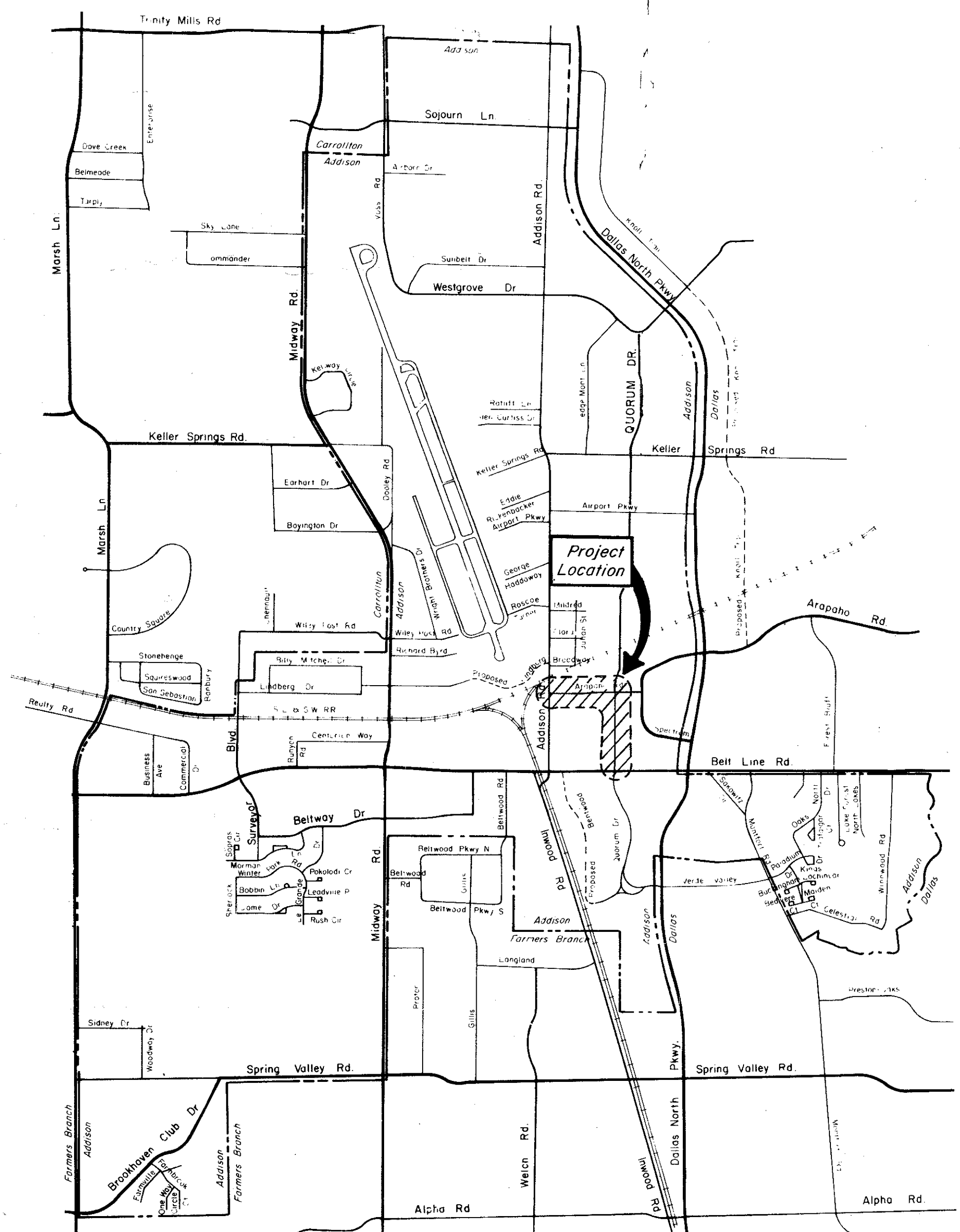
B2-2

B2-2

CITY OF ADDISON DALLAS COUNTY, TEXAS

CONSTRUCTION PLANS FOR: ARAPAHO ROAD / QUORUM DRIVE IMPROVEMENTS

PROJECT LENGTH: ARAPAHO ROAD 1190'±
QUORUM DRIVE 1301'±



CITY OF ADDISON

Mayor:
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Ron Whitehead



GINN INC.
CONSULTING ENGINEERS
DALLAS, TEXAS
DECEMBER, 1983

CITY OF ADDISON

Approved By: _____
Mayor
Date _____

B2-2

ARAPAHO / QUORUM CONST. 12/83

SUMMARY OF ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	PAVING SHEETS						DRAINAGE SHEETS						ITEM PRICE	UNIT PRICE	MISC.	TOTAL
			4	5	6	7	8	9	13	14	15	16	17	18				
100	Preparing of Right-of-Way	STA.	5	5	1.5	3.4	5	4										
104.1	Sawed Break-out Groove	LF	414	50	44		245	490									23.9	
104.2	Remove Conc. Paving (where indicated)	SY	56		194			185			105						1348.00	
104.3	Remove Old Conc. Curb & Gutter (where indicated)	LF	95					120			28						463.00	
110	Unclassified Road Excavation (DENSITY Cont.)	CY	1555	778	241	1042	1761	752									215.00	
120	Unclassified Channel Excavation (ordinary comp.)	LF															6129.00	
160	Placing Top Soil in Median 14 inches Sandy Loam	SY				418	517	283								1000.0	1000.00	
248	Flexible Base Ty A Gr2 Cl 3 (Density Cont.)	CY		77	10												1218.00	
260.1	Lime Slurry Ty A (6% max.) (27 lbs/sy)	TON	33.86	35.25	22.95	28.20	42.19	37.26								13	100.00	
260.2	Lime Treated Sub-grade 6" thk. (Density Cont.)	SY	2508	2611	1700	2089	3125	2760									200.00	
340.1	H.M.A.C.P. Ty. D Cl. A	TON	.21	130	7		7	13									14,793.00	
340.2	H.M.A.C.P. Ty. D Cl. A (Patching)	TON															178.00	
360.1	8" Concrete Pavement (3000 P.S.I.)	SY	2402.92	2325.0	1592.25	1937.5	2927.34	2620.81		32	3	6	3	8	19		80.00	
360.2	6" Monolithic Conc. Curb. (3000 P.S.I.)	LF	669.24	582	362.2	1188.66	813.87	1187.32									13,834.00	
360.3	Conc. Street Header	LF		92	46												4,804.00	
421.1	STA. 0+05+ Junction Box Cl. A Conc. w/reinf steel	LS								1							138.00	
421.2	STA. 6+50+ " " " " " "	LS									1						1.0	
421.3	STA. 11+34 " " " " " "	LS										1					1.0	
465.1	18" RCP Class III	LF								149	111		48	21	21		3500.00	
465.2	24" " " "	LF								290	191		56	56	56		649.00	
465.3	30" " " "	LF											61				61.00	
465.4	36" " " "	LF												237	350	40	627.00	
465.5	42" " " "	LF											190	150			340.00	
465.6	48" " " "	LF											165				387.00	
465.7	54" " " "	LF									88	134	56				56.00	
465.8	60" " " "	LF											50				50.00	
470.1	Y-Inlet (complete and in-place w/rip-rap)	EA.								2	2		2				50.00	
470.2	10'-Modified Recessed Inlet (Comp. in place)	EA.								4							6.00	
470.3	10'-Modified Double Recessed Inlet (Comp. in place)	EA.									1						4.00	
470.4	10'-Recessed Inlet	EA.									1						1.00	
470.5	4' Dia. Manhole (10'-12' deep) (complete and in place)	EA.											2	2	2		7.00	
471	Frame & Cover	EA.								1	2	1					5.00	
476	Boring 36" RCP Class IV	LF									65						4.00	
479.1	Adjust Water Valve	EA.								2	2	6	4		3		17.00	
479.2	Relocate Fire Hydrant	EA.								2	1	1	1				5.00	
479.3	Relocate Water Meter	EA.								1	1		3	2			7.00	
479.4	Relocate Clean-out San. Sew.	EA.									1						1.00	
479.5	Adjust Manhole	EA.										1					2.00	
479.6	Relocate/Lower 8" Water Main	LF								40	40		40	20	20		160.00	
479.7	Conc. Encasement 8" San. Sew.	LF											10	10			20.00	
479.8	Lower 2" Water Service	LF								45	45						90.00	
520.	6" Conc. Curb (Doweled in)	LF						25									25.00	
524.1	6" Conc. Sidewalk	SY						58									58.00	
524.2	5" Reinforced Conc. Driveway (3600 P.S.I.)	SY	143.26	188.1	43.65	87.3	160.2	184.91									808.00	
568	6' Chain Link Barrier Fence (Relocate)	LF				325	35										360.00	
580	Field Office Ty. A	LS															1.00	
640.1	2-2" PVC Conduit Sch. 40 (Elec.) complete & in-place	LF				355	500	375									1230.00	
640.2	2-3" " " " " " " " " " " " "	LF				250		90									340.00	
640.3	Pull Box	EA				6	2	3									11.00	
640.4	3" PVC Conduit Sch. 40 (Water) complete & in-place	LF				35	120	80									235.00	
640.5	8" PVC SDR 35 San. Sew. (7'-10' cut)	LF															54.00	
640.6	10" PVC SDR 35 San. Sew. (7'-10' cut)	LF														54	54.00	
640.7	16" PVC SDR 17 Water Line (5'-6' cut)	LF											435	500	400	488	488.00	
640.8	8" PVC SDR 17 Water Lateral (5'-6' cut)	LF											120	160	80		1,335.00	
640.9	16" Water Valve	EA											2	1	1		360.00	
640.10	12" Water Valve	EA											1				4.00	
640.11	8" Water Valve	EA											1				1.00	
640.12	2" Water Valve w/tap	EA											2	2	1		5.00	
640.13	Fire Hydrant	EA											1				1.00	
752.1	4" Traffic Button Single Reflective P15 W	EA	24	24	24	18	24	20									134.00	
752.2	4" Traffic Button Double " P117 Y	EA	182	188	182												552.00	
752.3	8" Traffic Button Single " P18-I-W	EA				14	5	19									38.00	
754.1	4" Traffic Button Non-reflective P7 W	EA	120	120	120	90	120	100									670.00	
760.1	18" White STOP Bar Thermo-plastic	LF	25		25			35									85.00	
760.2	8' Left Turn Arrows	EA	1		1												2.00	
760.3	8' Right Turn Arrows	EA	1		1			1									4.00	

INDEX TO DRAWINGS

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5	ARAPAHO-PAVING 5+00 to 10+00
6	ARAPAHO-PAVING 10+00 to 11+90.24
7	QUORUM DRIVE-PAVING 0+00 to 4+00
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NO. _____ REVISION _____ BY _____ DATE _____
 CITY OF ADDISON
 DALLAS COUNTY, TEXAS
ARAPAHO & QUORUM Dr. IMPROVEMENTS
SHEET INDEX & SUMMARY OF QUANTITIES
 GINN, INC.
 Consulting Engineers - Dallas, Texas
 DESIGNED: _____ TABULATED: _____ DATE: _____
 APPROVED: _____ CHECKED: _____ SHEET / OF 22

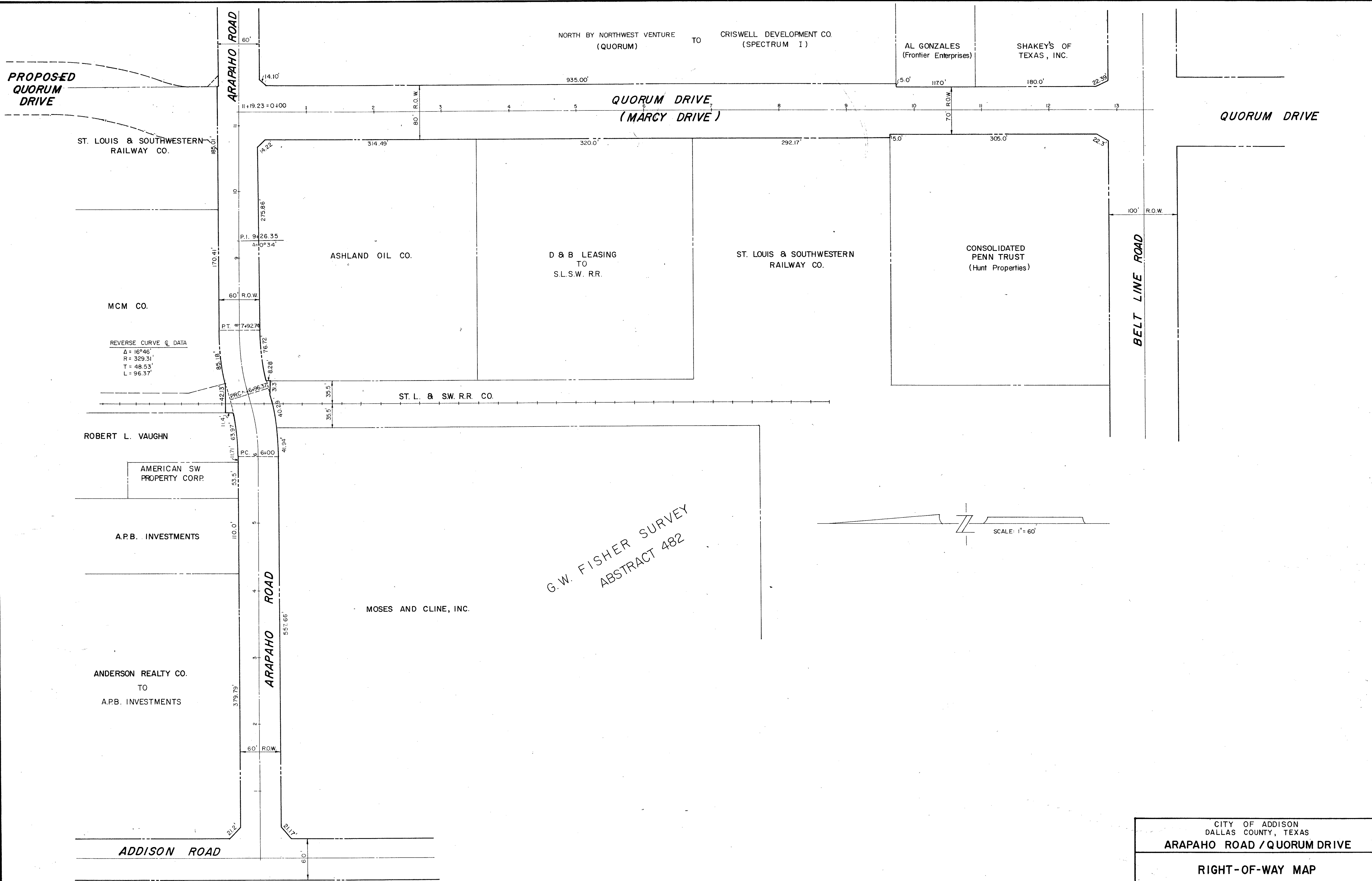
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104.2	Remove Conc. Paving (where indicated)	S.Y.	56		194			185										1348.00
104.3	Remove Old Conc. Curb & Cutter (where indicated)	LF	95					120										463.00
110	Unclassified Road Excavation (DENSITY Cont.)	CY	1555	778	241	1042	1761	752										215.00
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479.2	Relocate Fire Hydrant	EA							2	1	1		1					5.00
479.3	Relocate Water Meter	EA							1	1			3	2				7.00
479.4	Relocate Clean-out San. Sew.	EA								1								1.00
479.5	Adjust Manhole	EA																2.00
479.6	Relocate/Lower 8" Water Main	LF							40	40	1		40	20	1			160.00
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760.1	18" White STOP Bar Thermo-plastic	LF	25		25			35										85.00
760.2	8' Left Turn Arrows	EA	1		1													2.00
760.3	8' Right Turn Arrows	EA	1		1	1		1										4.00

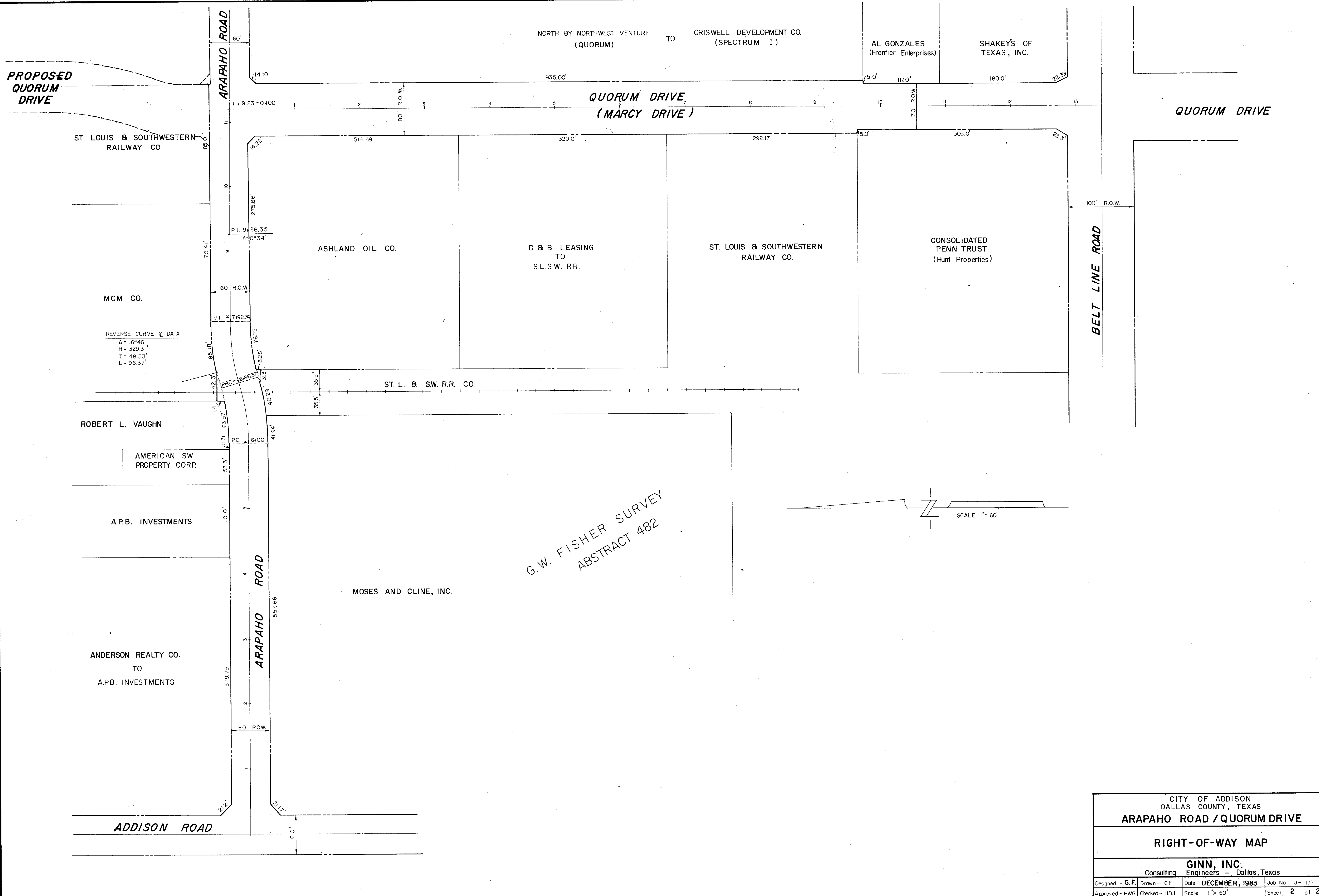
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REVISION _____ BY _____ DATE _____
 CITY OF ADDISON
 DALLAS COUNTY, TEXAS
ARAPAHO & QUORUM Dr. IMPROVEMENTS
SHEET INDEX & SUMMARY OF QUANTITIES
 GINN, INC.
 Consulting Engineers - Dallas, Texas
 DESIGNED- _____ TABULATED- _____ DATE- _____
 APPROVED- _____ CHECKED- _____ SHEET / OF 22



CITY OF ADDISON DALLAS COUNTY, TEXAS			
ARAPAHO ROAD / QUORUM DRIVE			
RIGHT-OF-WAY MAP			
GINN, INC. Consulting Engineers - Dallas, Texas			
Designed - G.F.	Drawn - G.F.	Date - DECEMBER, 1983	Job No. J-177
Approved - HWG	Checked - HBJ	Scale - 1" = 60'	Sheet 2 of 22



CITY OF ADDISON DALLAS COUNTY, TEXAS			
ARAPAHO ROAD / QUORUM DRIVE			
RIGHT-OF-WAY MAP			
GINN, INC. Consulting Engineers - Dallas, Texas			
Designed - G.F.	Drawn - G.F.	Date - DECEMBER, 1983	Job No. J-177
Approved - HWG	Checked - HBJ	Scale - 1" = 60'	Sheet 2 of 22

PROPOSED
QUORUM
DRIVE

ST. LOUIS & SOUTHWESTERN
RAILWAY CO.

MCM CO.

REVERSE CURVE DATA
 $\Delta = 16^\circ 46'$
 $R = 329.31'$
 $T = 48.53'$
 $L = 96.37'$

ROBERT L. VAUGHN

AMERICAN SOUTHWEST
PROPERTY CORP.

A.P.B. INVESTMENTS

ANDERSON REALTY CO.
TO
A.P.B. INVESTMENTS

ADDISON ROAD

ARAPAHO ROAD

PHASE I
PHASE II
PHASE III

ASHLAND OIL CO.

D & B LEASING
TO
S.L.S.W. RR.

ST. LOUIS & SOUTHWESTERN
RAILWAY CO.

CONSOLIDATED
PENN TRUST
(Hunt Properties)

ST. L. & SW. RR. CO.

MOSES AND CLINE, INC.

G.W. FISHER SURVEY
ABSTRACT 482

NORTH BY NORTHWEST VENTURE (QUORUM) TO CRISWELL DEVELOPMENT CO. (SPECTRUM I)

AL GONZALES
(Frontier Enterprises)

SHAKEY'S OF
TEXAS, INC.

QUORUM DRIVE
(MARCY DRIVE)

QUORUM DRIVE

BELT LINE ROAD

PHASE I CONSTRUCTION

1. LAY 10" SANITARY SEWER ON ARAPAHO ROAD.
2. LAY 24" WATER ALONG QUORUM DRIVE.
3. LAY ALL STORM SEWERS
4. PAVE QUORUM - - 2 NORTHBOUND LANES (23')
PAVE ARAPAHO - - 2 WESTBOUND LANES (22.5')

PHASE II CONSTRUCTION

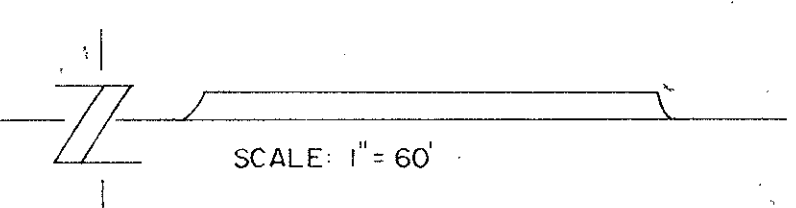
1. PAVE QUORUM - - 2 SOUTHBOUND LANES (23')
PAVE ARAPAHO - - 2 EASTBOUND LANES (22.5')

PHASE III CONSTRUCTION

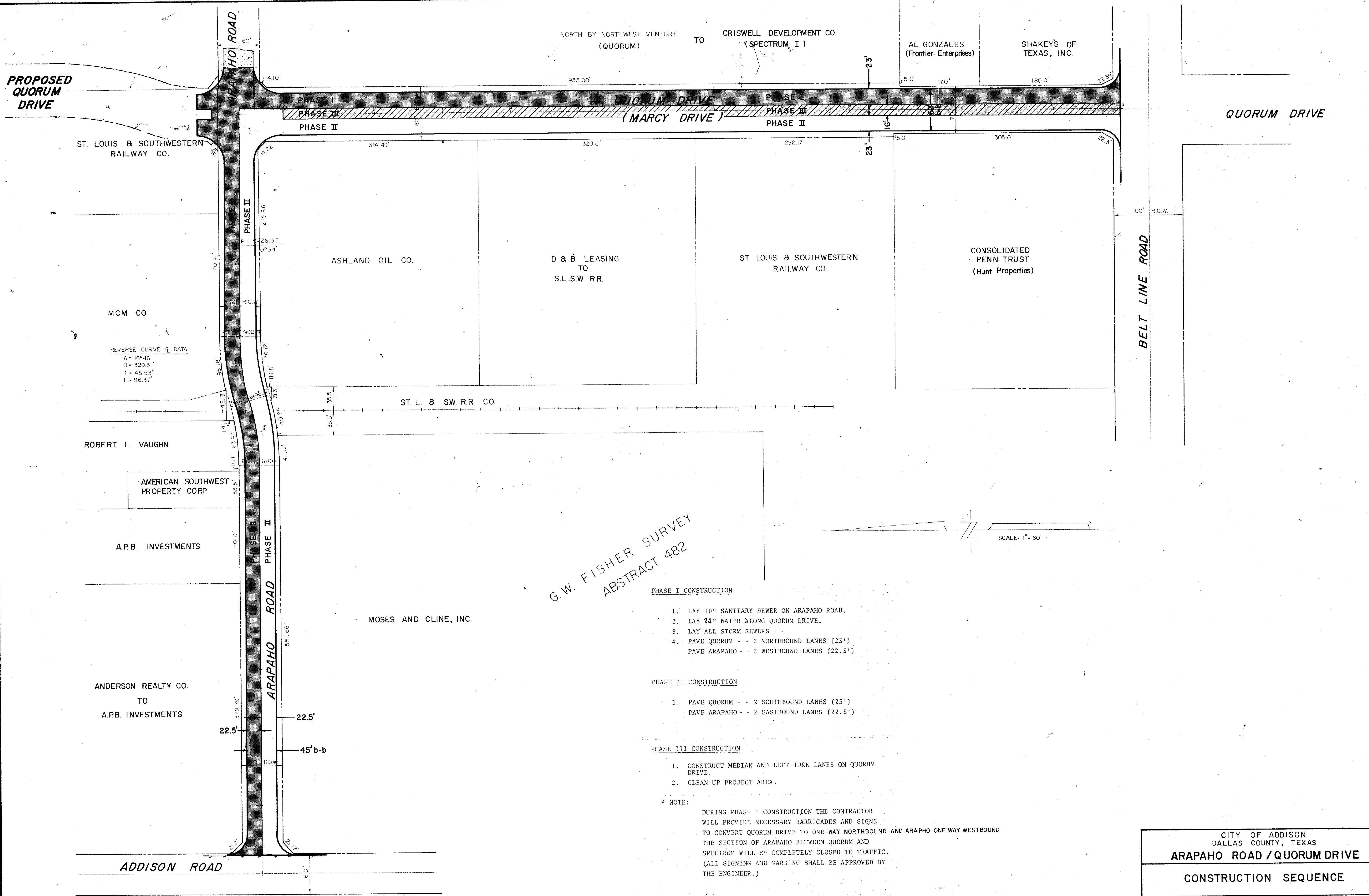
1. CONSTRUCT MEDIAN AND LEFT-TURN LANES ON QUORUM DRIVE.
2. CLEAN UP PROJECT AREA.

* NOTE:

DURING PHASE I CONSTRUCTION THE CONTRACTOR WILL PROVIDE NECESSARY BARRICADES AND SIGNS TO CONVERT QUORUM DRIVE TO ONE-WAY NORTHBOUND AND ARAPAHO ONE WAY WESTBOUND THE SECTION OF ARAPAHO BETWEEN QUORUM AND SPECTRUM WILL BE COMPLETELY CLOSED TO TRAFFIC. (ALL SIGNING AND MARKING SHALL BE APPROVED BY THE ENGINEER.)



CITY OF ADDISON DALLAS COUNTY, TEXAS			
ARAPAHO ROAD / QUORUM DRIVE			
CONSTRUCTION SEQUENCE			
GINN, INC. Consulting Engineers - Dallas, Texas			
Designed - G.F.	Drawn - G.F./RB	Date - DECEMBER 1983	Job No. J-177
Approved - HWG	Checked - HBJ	Scale - 1" = 60'	Sheet 3 of 22



REVERSE CURVE G. DATA
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G.W. FISHER SURVEY
 ABSTRACT 482

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PHASE II CONSTRUCTION

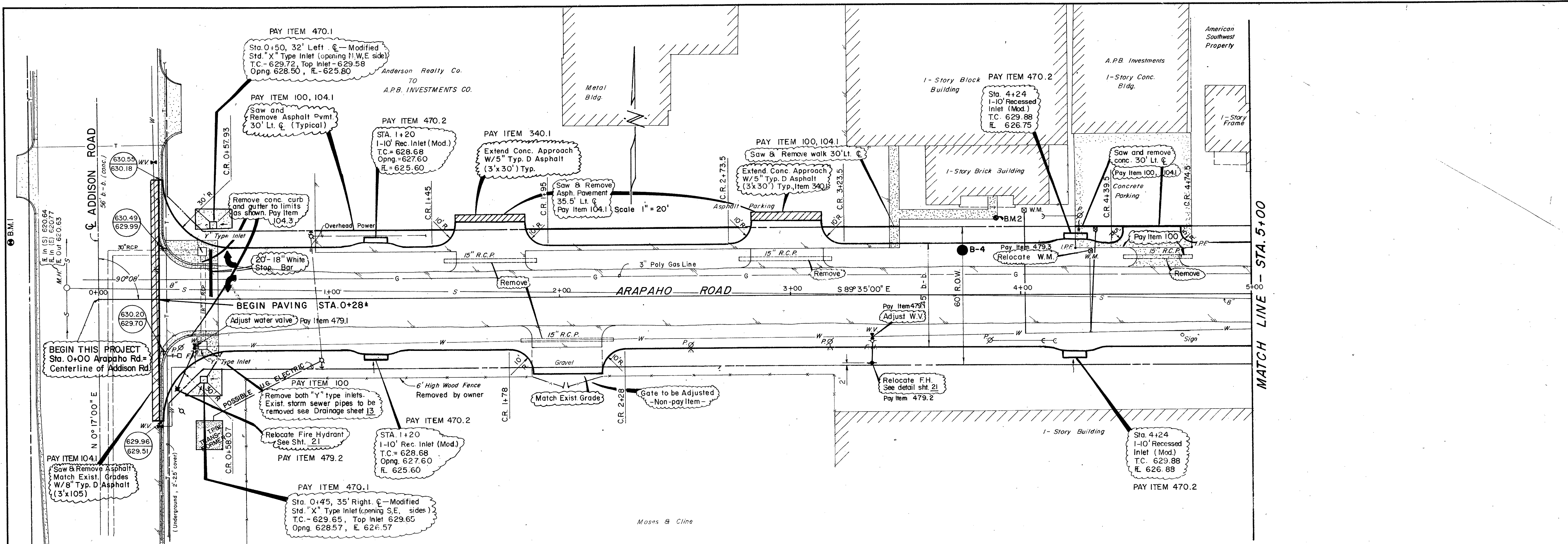
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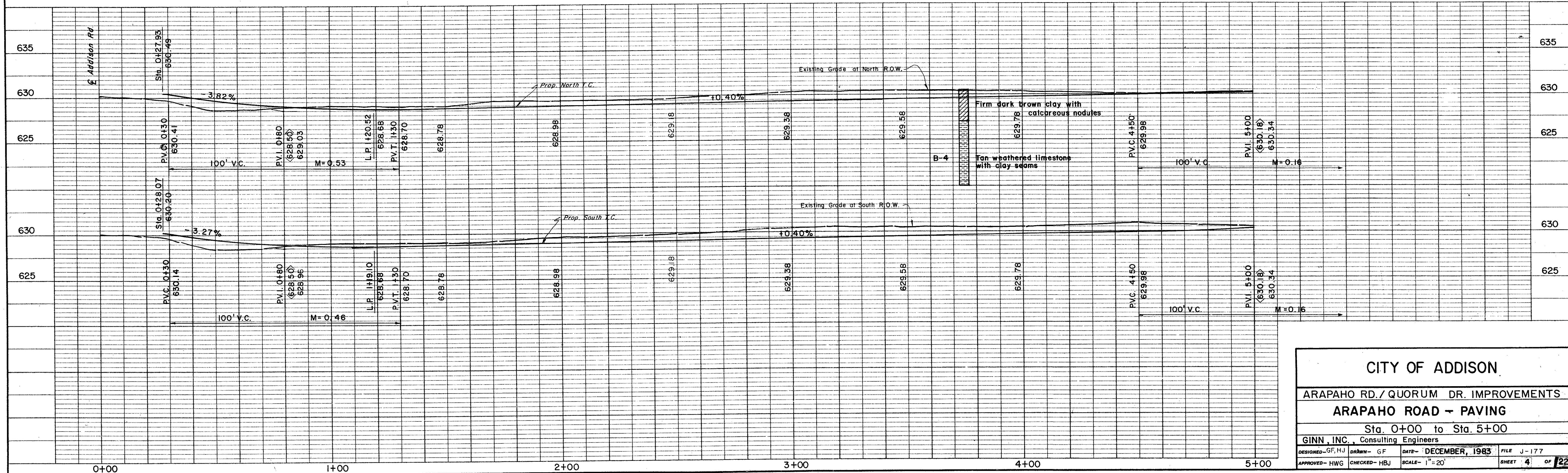
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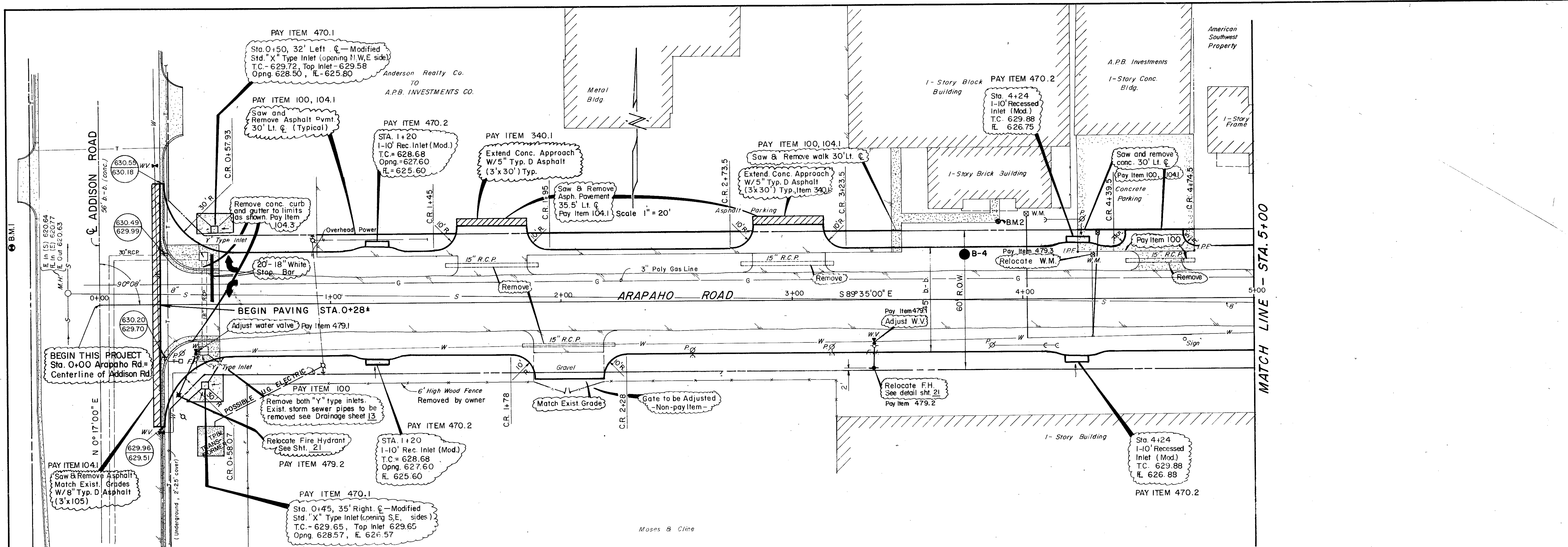
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Approved - HWG	Checked - H.B.J.	Scale - 1" = 60'	Sheet 3 of 22



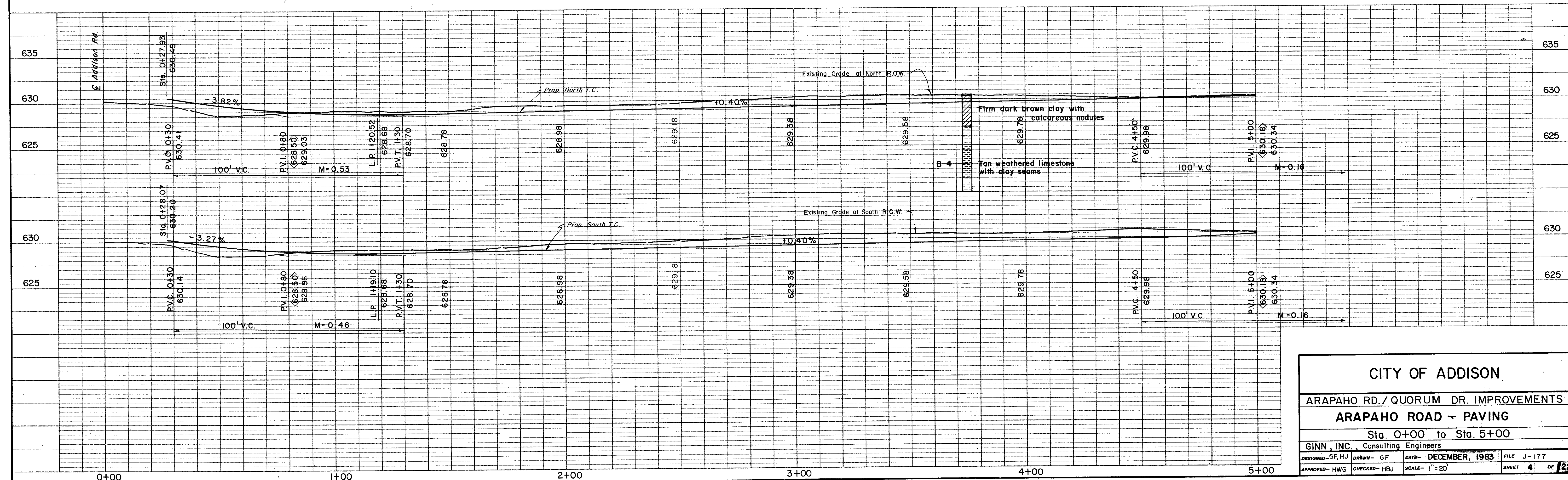
B.M.1 "□" On Corner of Loading Dock at Howard Green Furniture - 15289 Addison Road (Elev. 629.854)
 B.M.2 "□" On S.E. Corner of Concrete Walk at Front Entrance to 4805 Arapaho Rd. (Elev. 630.66)



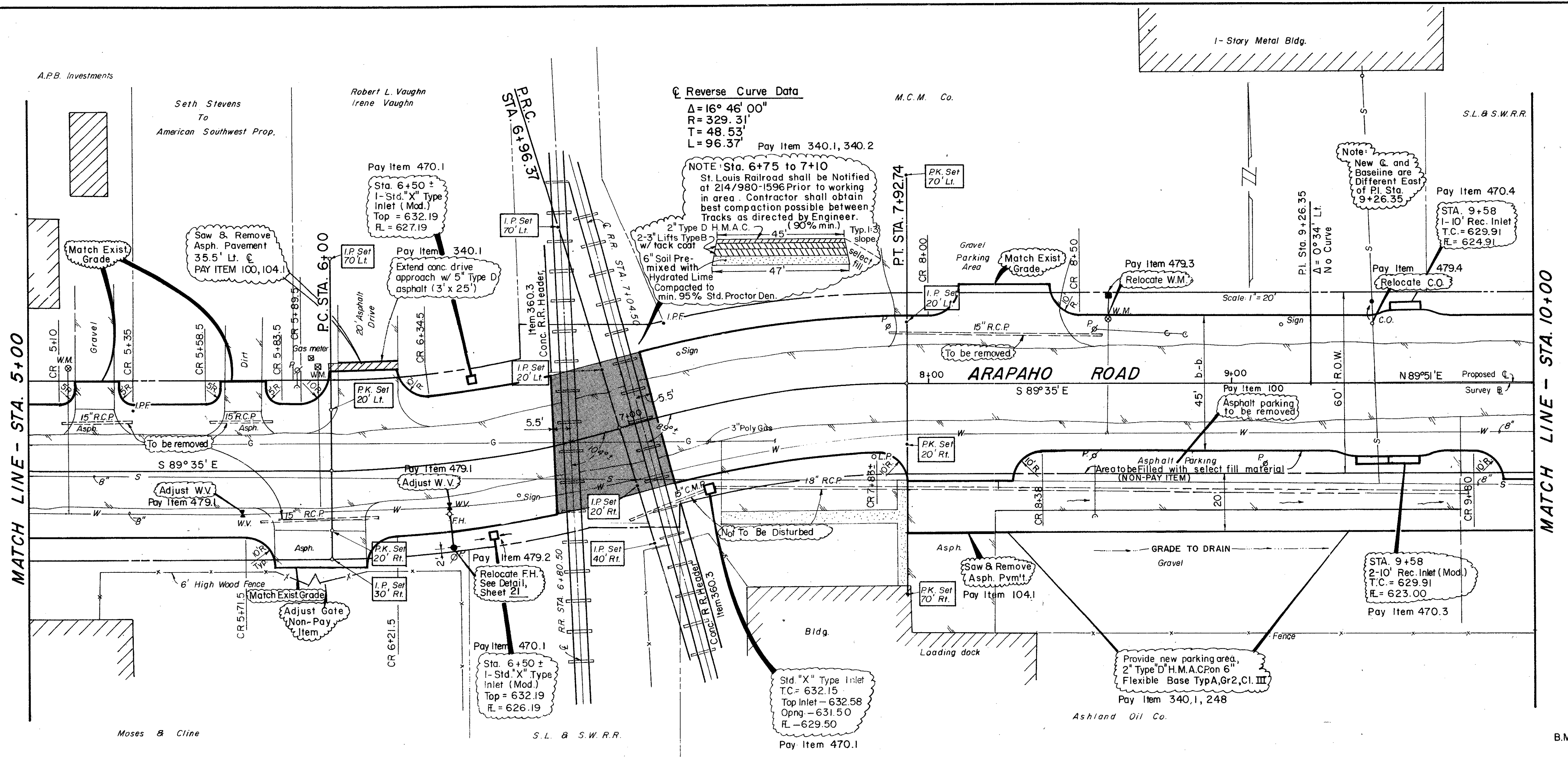
CITY OF ADDISON			
ARAPAHO RD./QUORUM DR. IMPROVEMENTS			
ARAPAHO ROAD - PAVING			
Sta. 0+00 to Sta. 5+00			
GINN, INC., Consulting Engineers			
DESIGNED - GF, HJ	DRAWN - GF	DATE - DECEMBER, 1983	FILE J-177
APPROVED - HWG	CHECKED - HBJ	SCALE - 1" = 20'	SHEET 4 OF 22



B.M.1 "□" On Corner of Loading Dock at Howard Green Furniture—15289 Addison Road (Elev. 629.854)
 B.M.2 "□" On S.E. Corner of Concrete Walk at Front Entrance To 4805 Arapaho Rd. (Elev. 630.66)



CITY OF ADDISON			
ARAPAHO RD./ QUORUM DR. IMPROVEMENTS			
ARAPAHO ROAD - PAVING			
Sta. 0+00 to Sta. 5+00			
GINN, INC., Consulting Engineers			
DESIGNED - GF, HJ	DRAWN - GF	DATE - DECEMBER, 1983	FILE J-177
APPROVED - HWG	CHECKED - HBJ	SCALE - 1"=20'	SHEET 4 OF 22



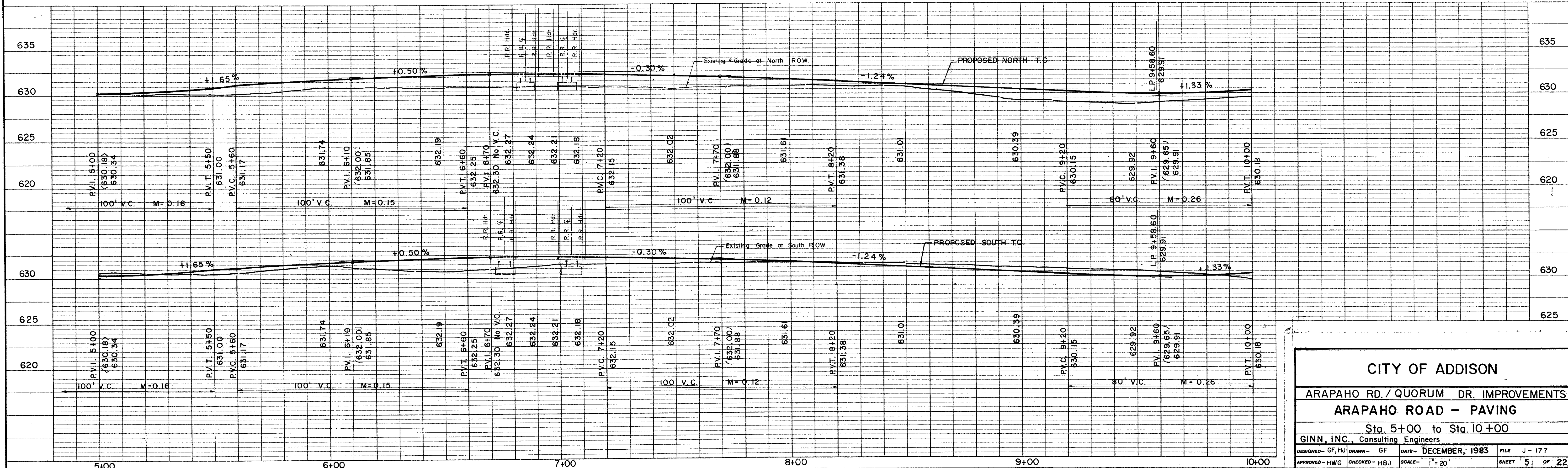
Reverse Curve Data
 $\Delta = 16^\circ 46' 00''$
 $R = 329.31'$
 $T = 48.53'$
 $L = 96.37'$

NOTE: Sta. 6+75 to 7+10
 St. Louis Railroad shall be notified at 214/980-1596 prior to working in area. Contractor shall obtain best compaction possible between tracks as directed by Engineer.

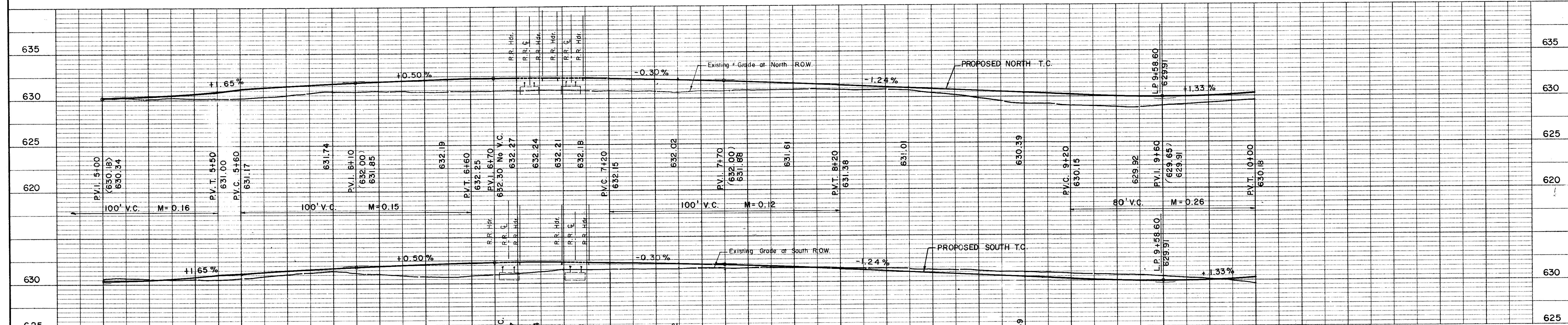
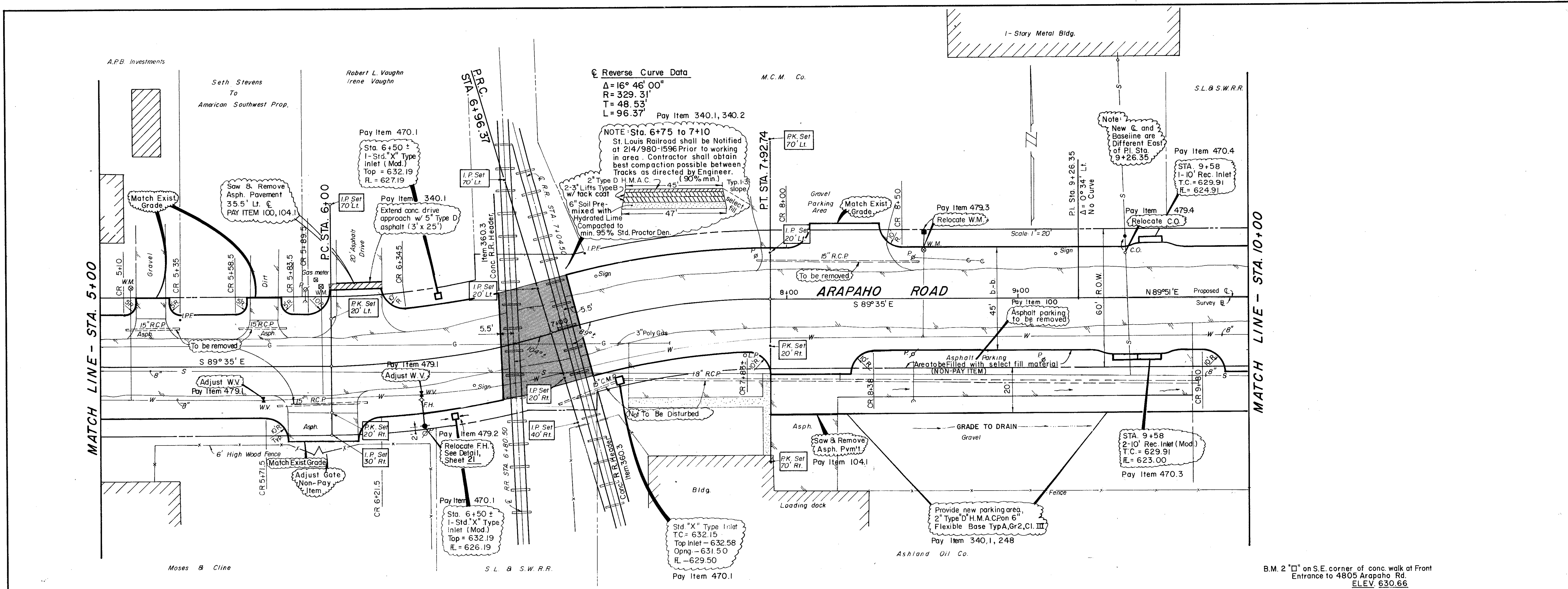
MATCH LINE - STA. 10+00

MATCH LINE - STA. 5+00

B.M. 2 "□" on S.E. corner of conc. walk at Front Entrance to 4805 Arapaho Rd. ELEV. 630.66



CITY OF ADDISON			
ARAPAH0 RD./ QUORUM DR. IMPROVEMENTS			
ARAPAH0 ROAD - PAVING			
Sta. 5+00 to Sta. 10+00			
GINN, INC., Consulting Engineers			
DESIGNED - GF, HJ	DRAWN - GF	DATE - DECEMBER, 1983	FILE - J-177
APPROVED - HWG	CHECKED - HBJ	SCALE - 1" = 20'	SHEET 5 OF 22

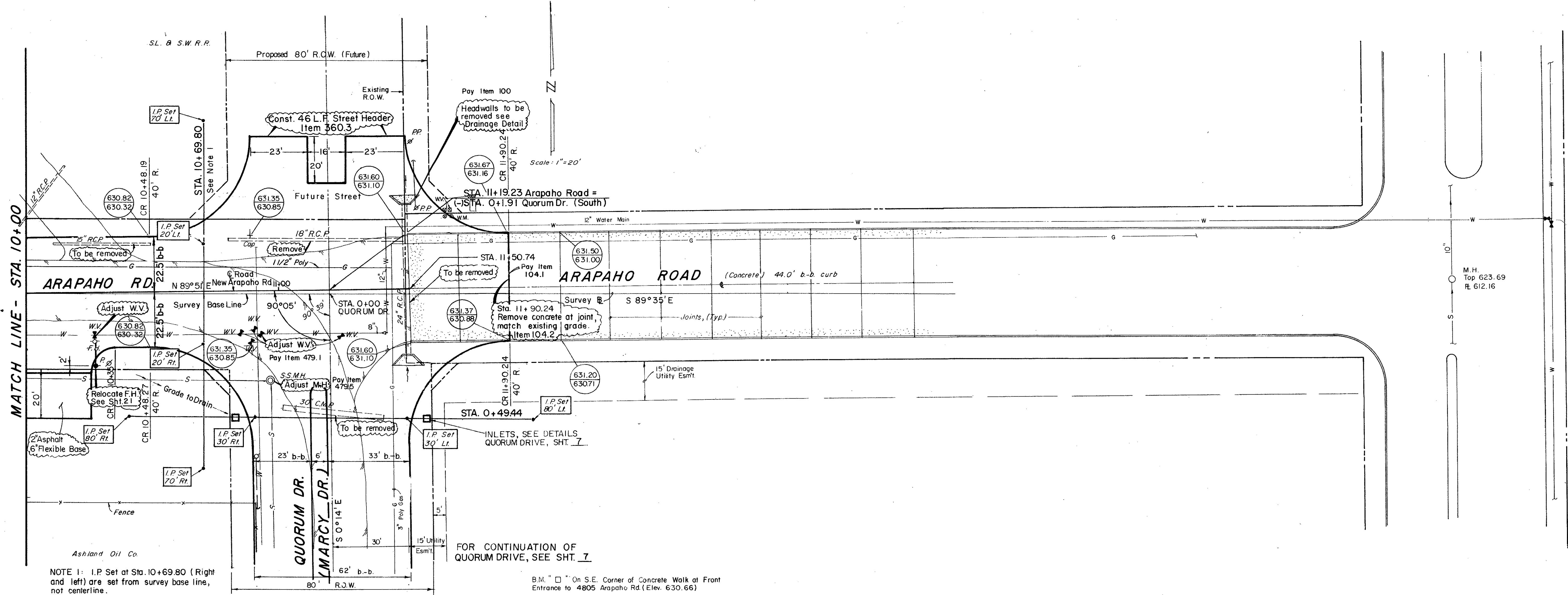


CITY OF ADDISON

ARAPAHO RD./QUORUM DR. IMPROVEMENTS
ARAPAHO ROAD - PAVING
 Sta. 5+00 to Sta. 10+00

GINN, INC., Consulting Engineers

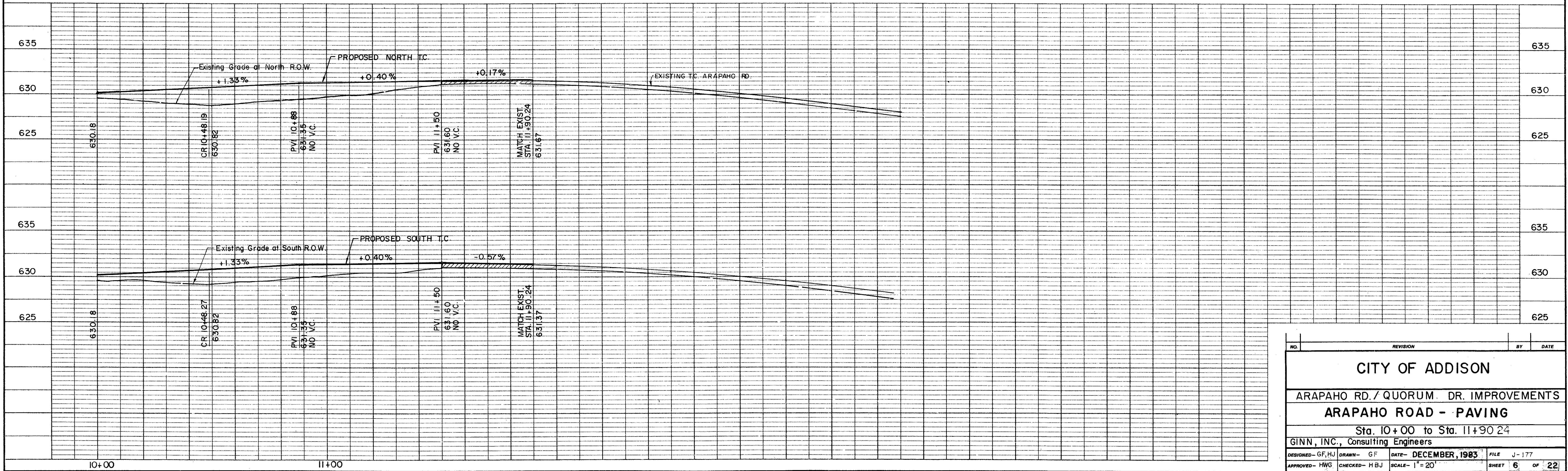
DESIGNED - GF, HJ	DRAWN - GF	DATE - DECEMBER, 1983	FILE J-177
APPROVED - HWG	CHECKED - HBJ	SCALE - 1" = 20'	SHEET 5 OF 22



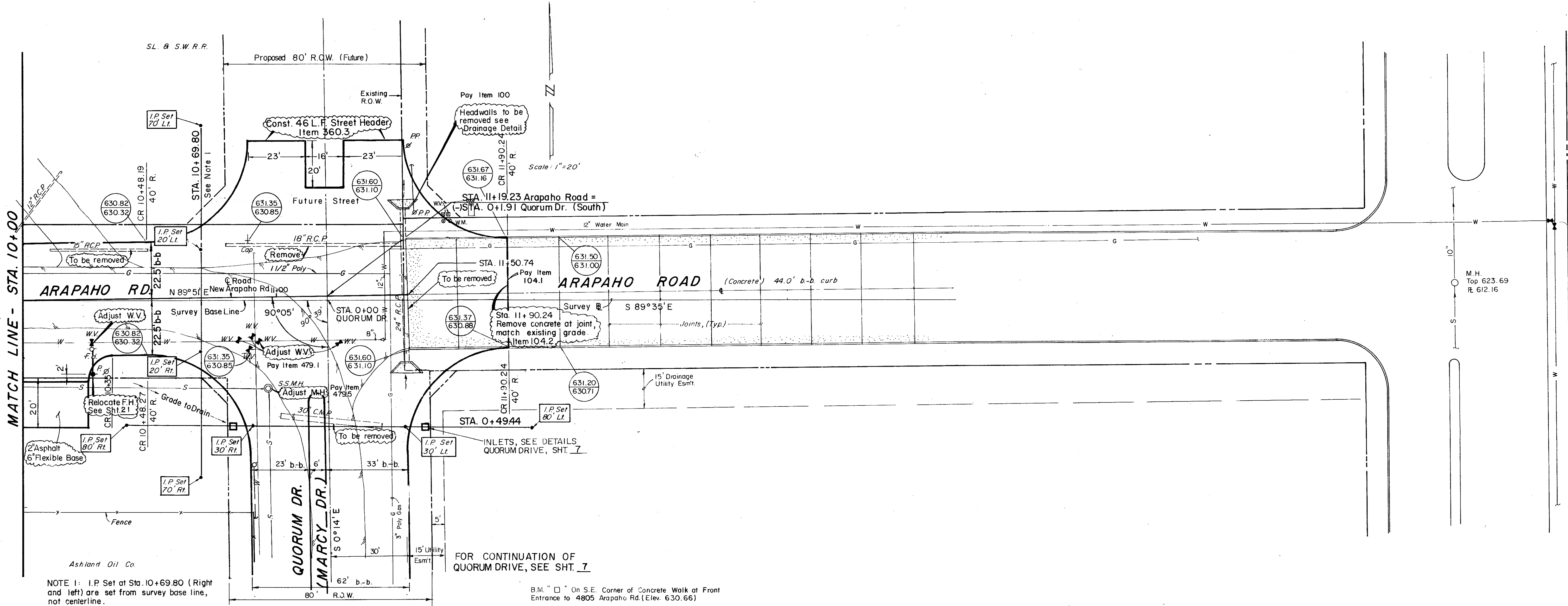
NOTE 1: I.P. Set at Sta. 10+69.80 (Right and left) are set from survey base line, not centerline.

FOR CONTINUATION OF QUORUM DRIVE, SEE SHT. 7

B.M. "□" On S.E. Corner of Concrete Walk at Front Entrance to 4805 Arapaho Rd (Elev. 630.66)

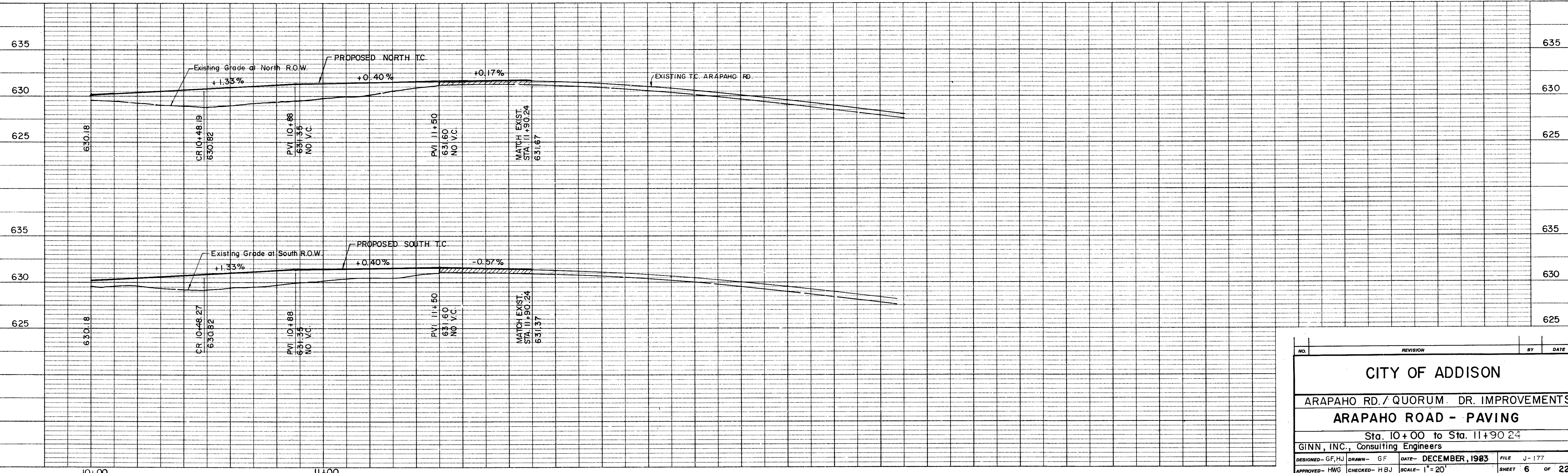


NO.	REVISION	BY	DATE
CITY OF ADDISON			
ARAPAHO RD./QUORUM DR. IMPROVEMENTS			
ARAPAHO ROAD - PAVING			
Sta. 10+00 to Sta. 11+90.24			
GINN, INC., Consulting Engineers			
DESIGNED - GF, HJ	DRAWN - GF	DATE - DECEMBER, 1983	FILE - J-177
APPROVED - HWS	CHECKED - HBJ	SCALE - 1" = 20'	SHEET 6 OF 22

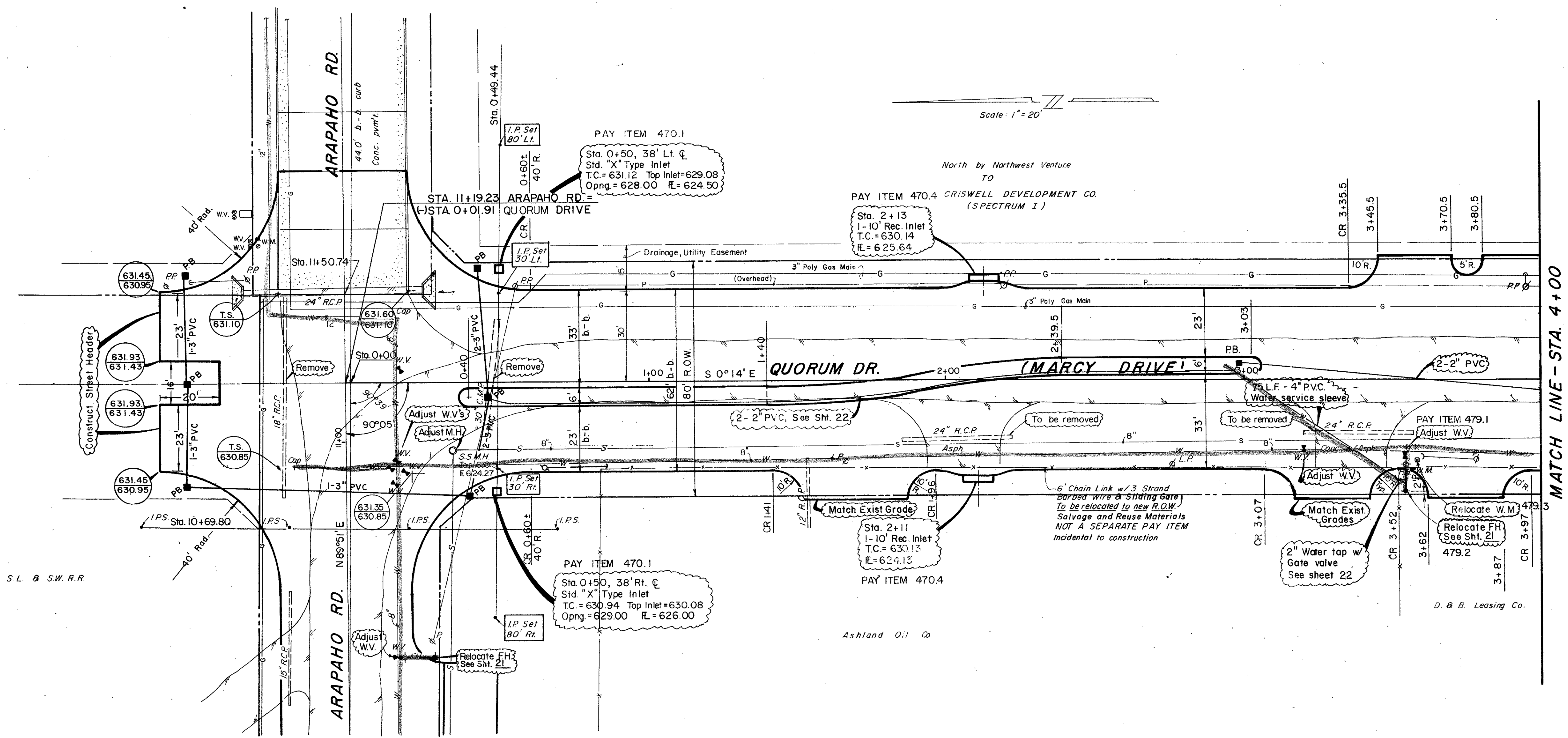


NOTE 1: I.P. Set at Sta. 10+69.80 (Right and left) are set from survey base line, not centerline.

B.M. "□" On S.E. Corner of Concrete Walk at Front Entrance to 4805 Arapaho Rd. (Elev. 630.66)

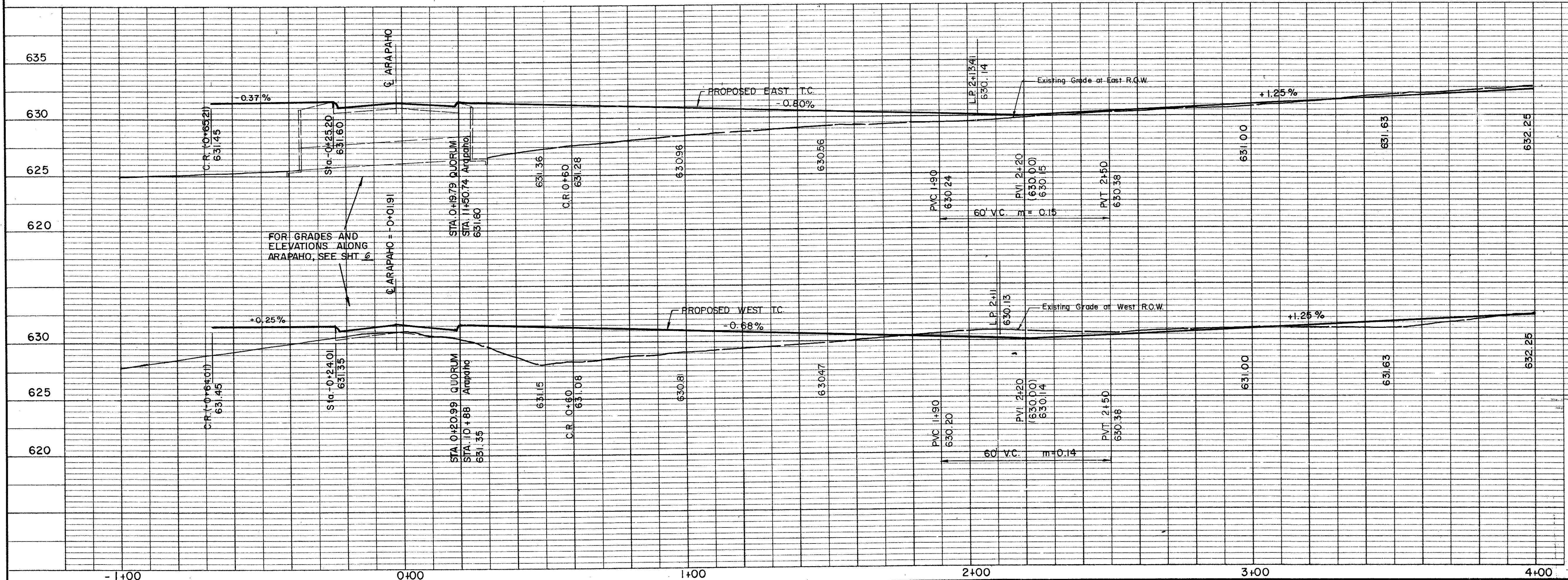


NO.	REVISION	BY	DATE
CITY OF ADDISON			
ARAPAHO RD. / QUORUM DR. IMPROVEMENTS			
ARAPAHO ROAD - PAVING			
Sta. 10+00 to Sta. 11+90.24			
GINN, INC., Consulting Engineers			
DESIGNED - GF, HJ	DRAWN - GF	DATE - DECEMBER, 1983	FILE - J-177
APPROVED - HWG	CHECKED - HBJ	SCALE - 1" = 20'	SHEET 6 OF 22



MATCH LINE - STA. 4+00

B.M. "□" On S.E. Corner of Retaining Wall at S.E. Corner of Building at Whittaker Metals, 15251 Marcy Rd. (Elev. 637.61)



CITY OF ADDISON

ARAPAHO RD. / QUORUM DR. IMPROVEMENTS

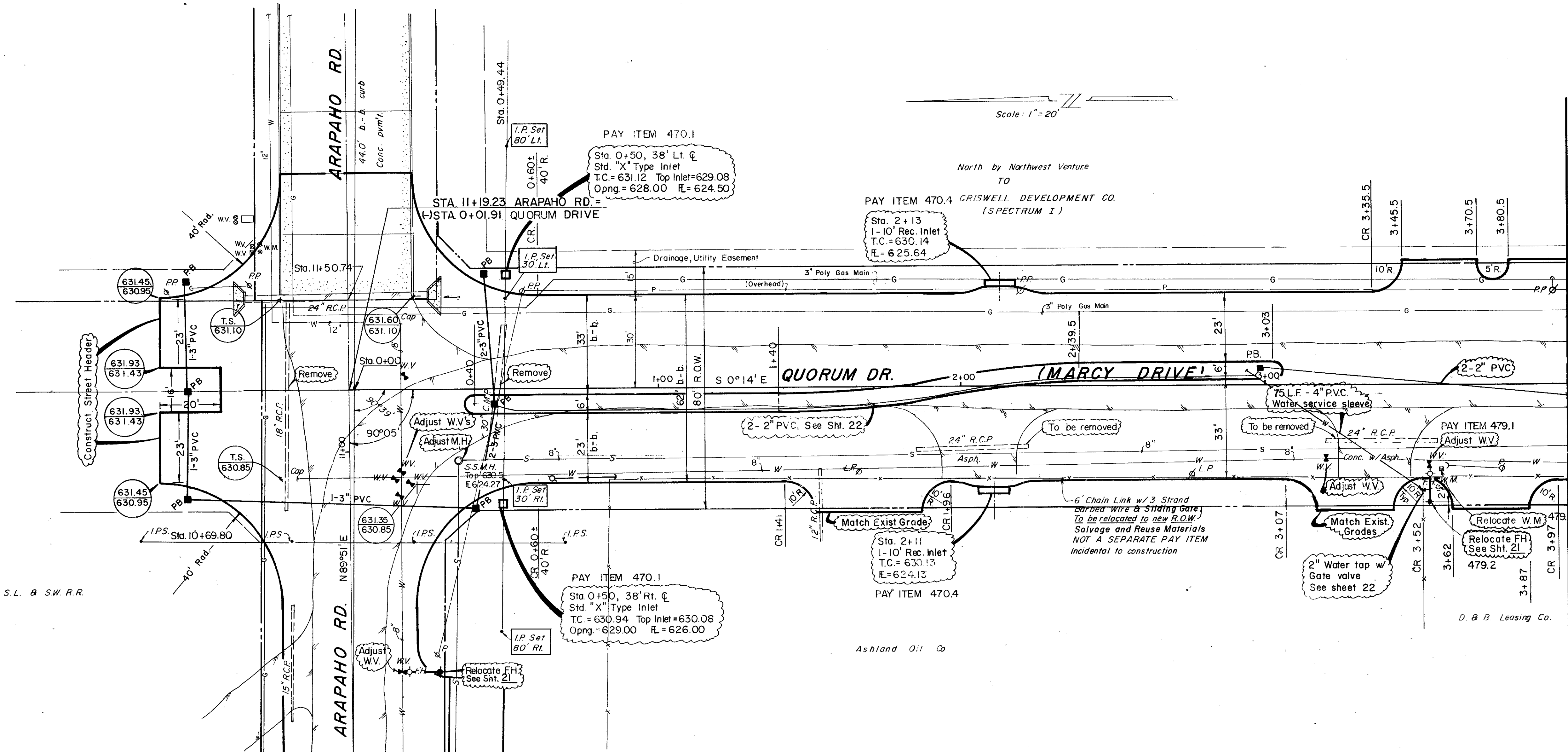
QUORUM DRIVE - PAVING

Sta. 0+00 to Sta. 4+00

GINN, INC., Consulting Engineers

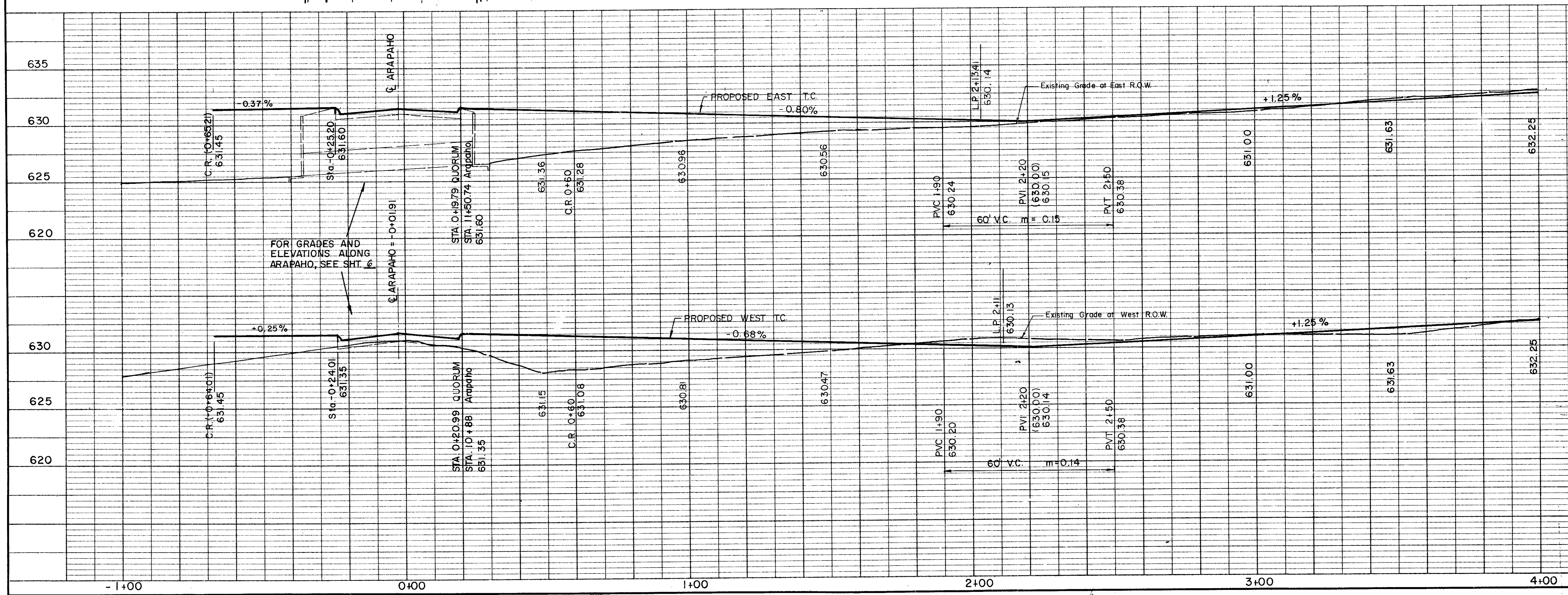
DESIGNED - GF, HJ DRAWN - G.F. DATE - DECEMBER, 1983. FILE J-177

APPROVED - HWG CHECKED - HBJ SCALE - 1" = 20' SHEET 7 OF 22

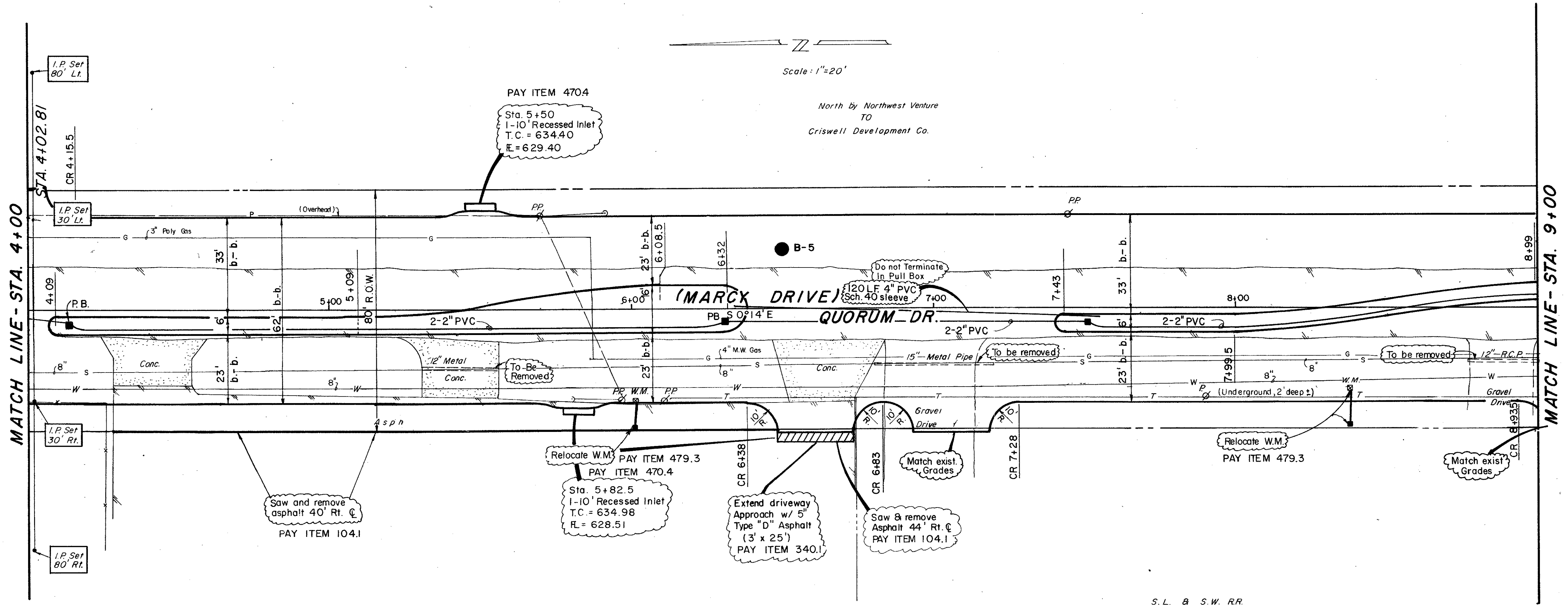


MATCH LINE - STA. 4+00

B.M. "□" On S.E. Corner of Retaining Wall at S.E. Corner of Building at Whittaker Metals, 15251 Marcy Rd. (Elev. 637.61)



CITY OF ADDISON			
ARAPAHO RD. / QUORUM DR. IMPROVEMENTS			
QUORUM DRIVE - PAVING			
Sta. 0+00 to Sta. 4+00			
GINN, INC., Consulting Engineers			
DESIGNED - GF, HJ	DRAWN - G.F.	DATE - DECEMBER, 1983	FILE J-177
APPROVED - HWG	CHECKED - HB, J	SCALE - 1" = 20'	SHEET 7 OF 22

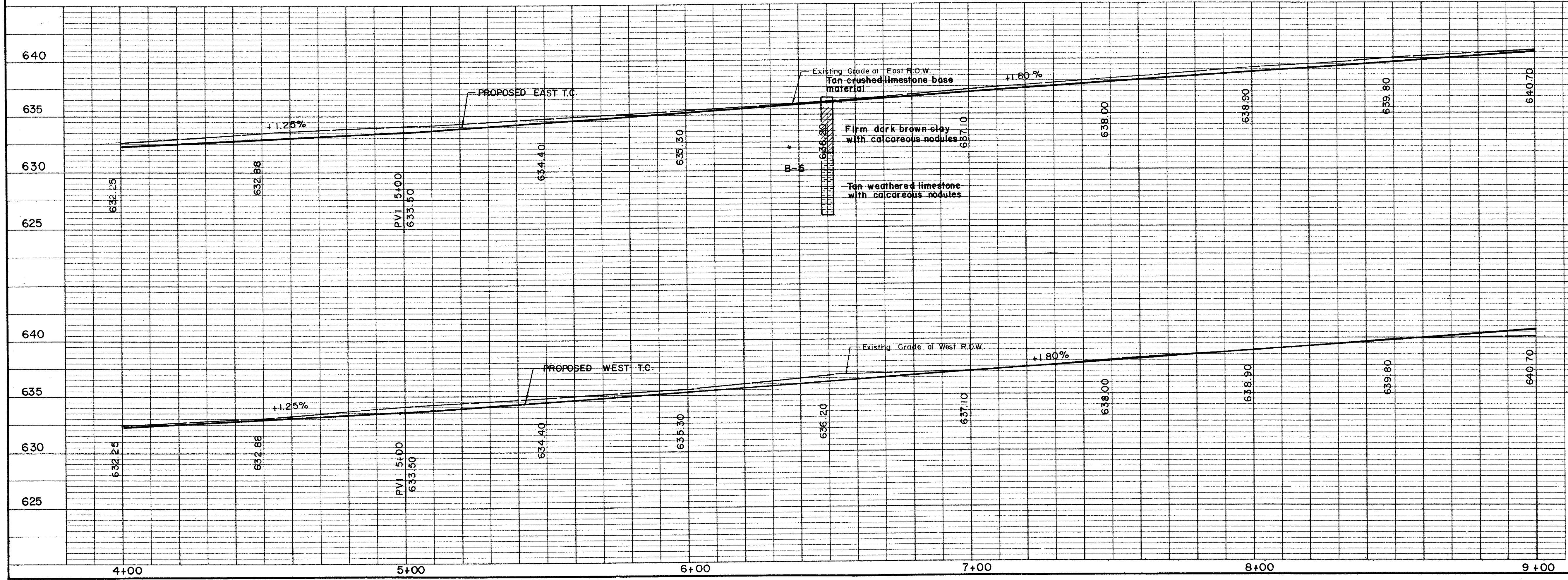


D. B. Leasing Co.
TO
ST. L. B. S. W. R. R.

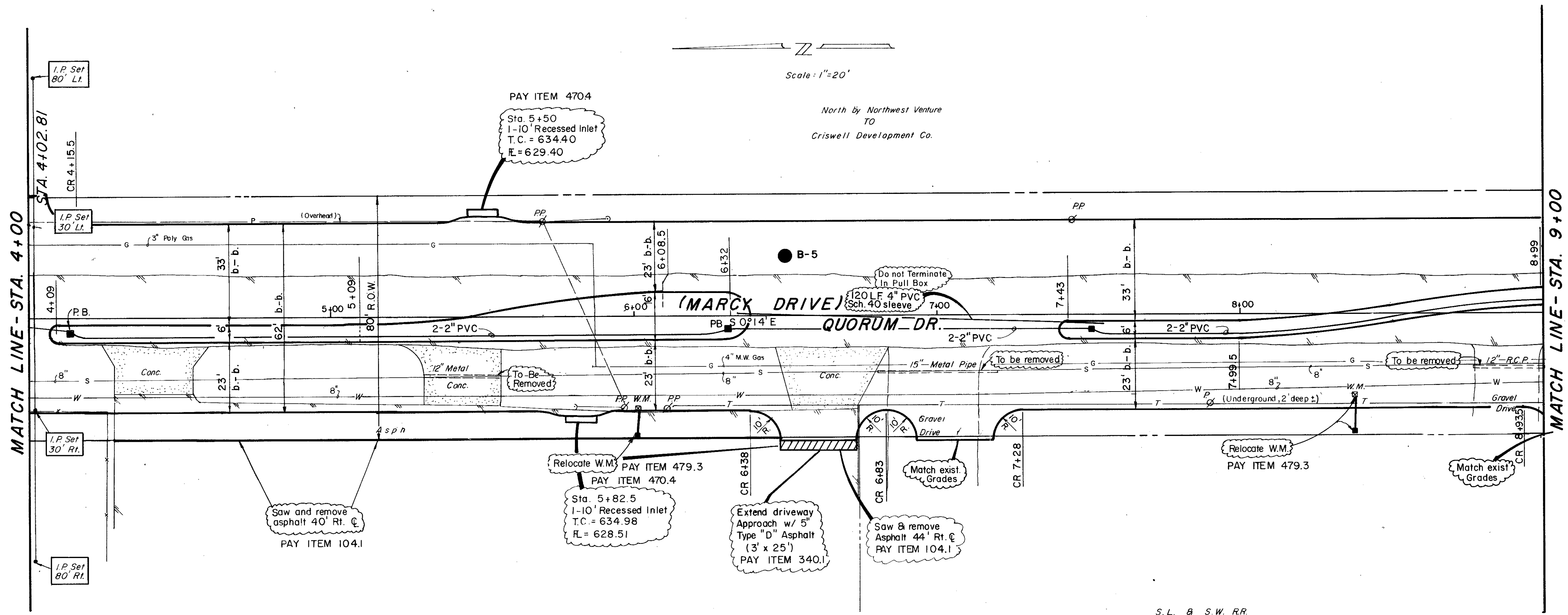
S. L. B. S. W. R. R.

NOTE:
3" PVC Sch. 40 shall have
Long radius sweeps with
Capped off Risers to 6"
above ground level.
See Details Sht. 22

B.M. "□" On S.E. Corner of Retaining Wall at S.E. Corner of
Building at Whittaker Metals, 15251 Marcy Rd. (Elev. 637.61)



CITY OF ADDISON			
ARAPAHO RD. / QUORUM DR. IMPROVEMENTS			
QUORUM DRIVE - PAVING			
Sta. 4+00 to Sta. 9+00			
GINN, INC., Consulting Engineers			
DESIGNED - HJ, GF	DRAWN - G.F.	DATE - DECEMBER, 1983	FILE J-177
APPROVED - HWG	CHECKED - HB J	SCALE - 1" = 20'	SHEET 8 OF 22



Scale: 1"=20'

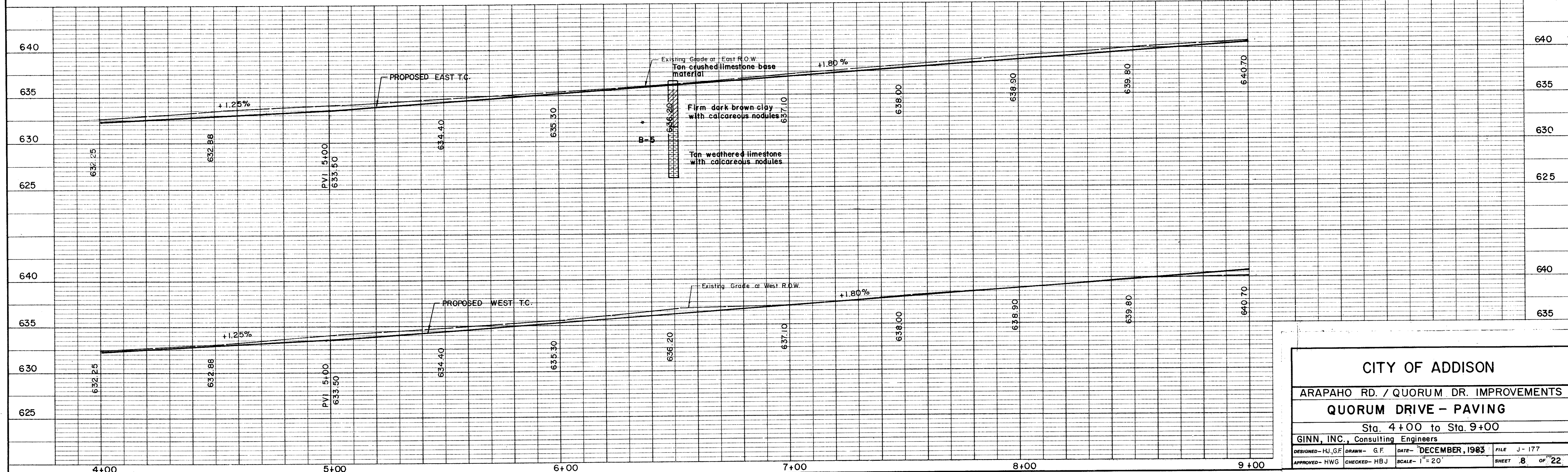
North by Northwest Venture
TO
Criswell Development Co.

D. B. B. Leasing Co.
TO
S. L. & S. W. R. R.

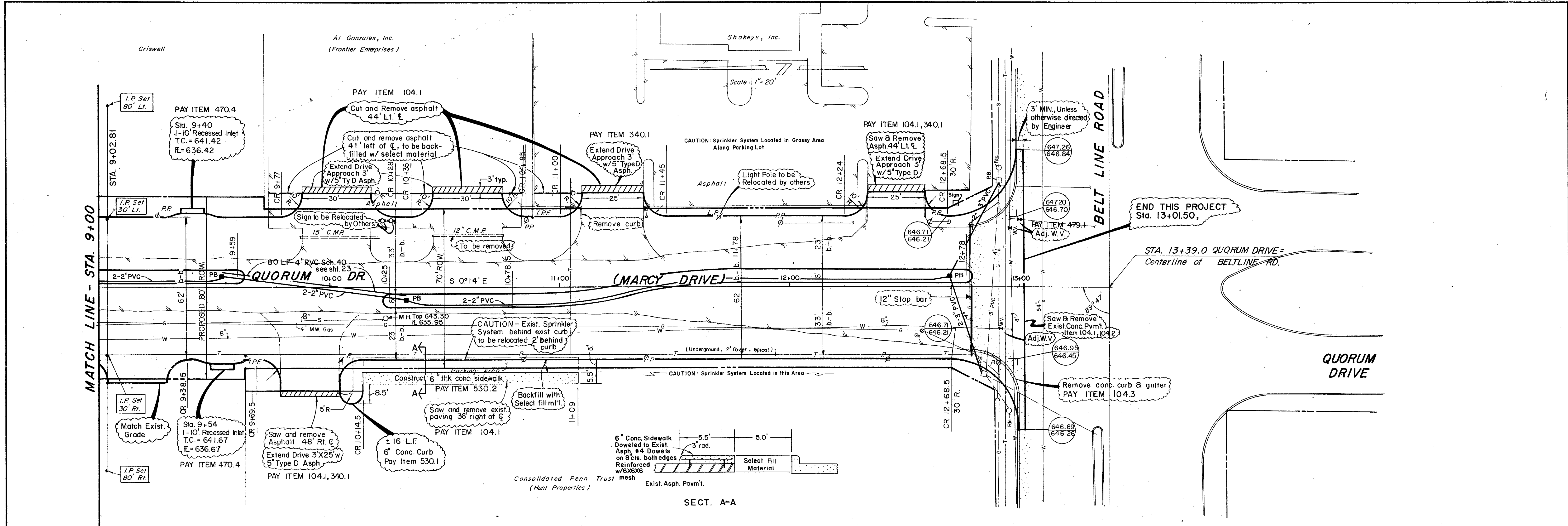
S. L. & S. W. R. R.

NOTE:
3" PVC Sch. 40 shall have
Long radius sweeps with
Capped off Risers to 6"
above ground level.
See Details Sht. 22

B.M. "□" On S.E. Corner of Retaining Wall at S.E. Corner of
Building at Whittaker Metals, 15251 Marcy Rd. (Elev. 637.61)

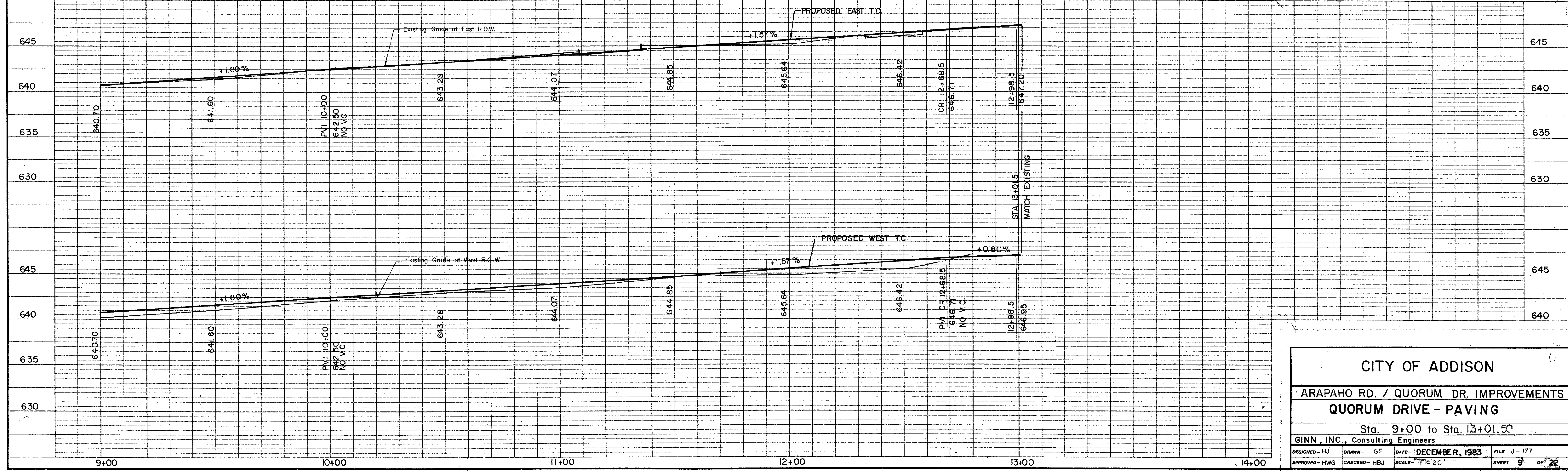


CITY OF ADDISON			
ARAPAHO RD. / QUORUM DR. IMPROVEMENTS			
QUORUM DRIVE - PAVING			
Sta. 4+00 to Sta. 9+00			
GINN, INC., Consulting Engineers			
DESIGNED - HJ, GF	DRAWN - G.F.	DATE - DECEMBER, 1983	FILE J-177
APPROVED - HWG	CHECKED - HBJ	SCALE - 1" = 20'	SHEET 8 OF 22



NOTE: Any damage done to sprinkler systems due to construction operations shall be repaired or replaced immediately, to same or better condition, prior to damage, unless otherwise approved by engineer. This is not a separate pay item, but is considered incidental to construction.

B.M. "□" On S.E. Corner of Retaining Wall at S.E. Corner of Building For Whittaker Metals-15251 Marcy Road (Elev. 637.61)
 B.M. "□" On Curb at N.W. Corner of Walk at the N.W. Corner of Shakeys' Pizza Belt Line at Marcy Drive (Elev. 646.07)



CITY OF ADDISON

ARAPAHO RD. / QUORUM DR. IMPROVEMENTS

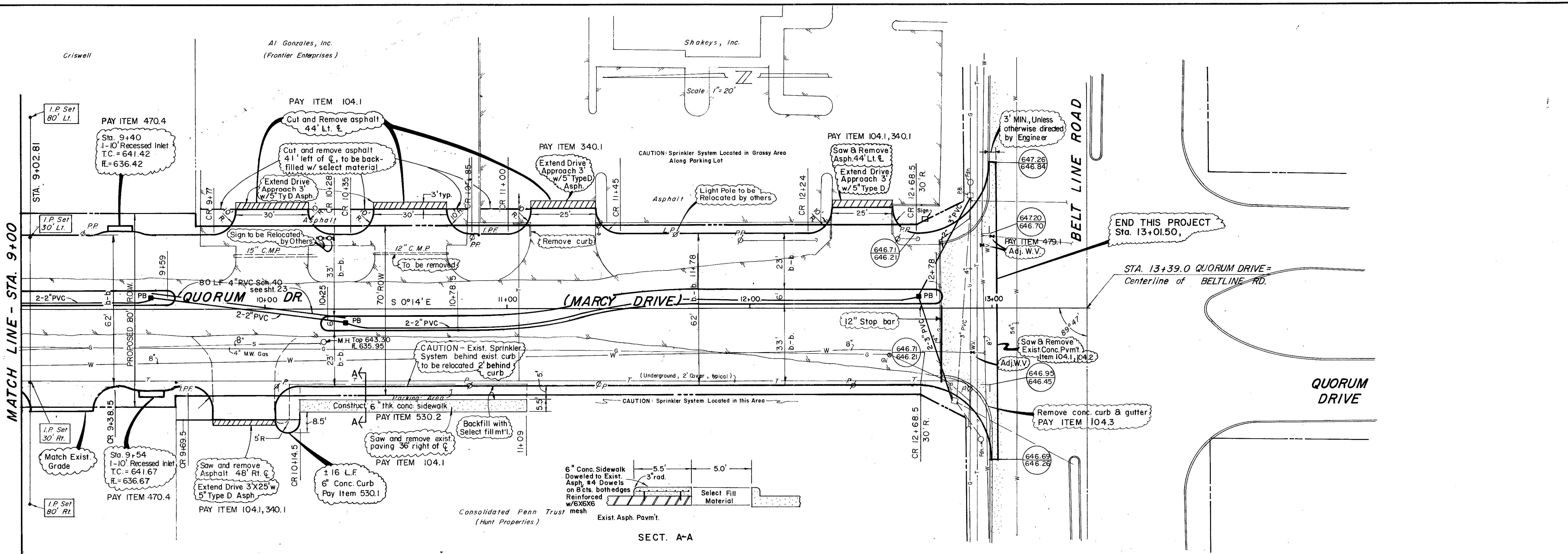
QUORUM DRIVE - PAVING

Sta. 9+00 to Sta. 13+01.50

GINN, INC., Consulting Engineers

DESIGNED - HJ DRAWN - GF DATE - DECEMBER, 1983 FILE J-177

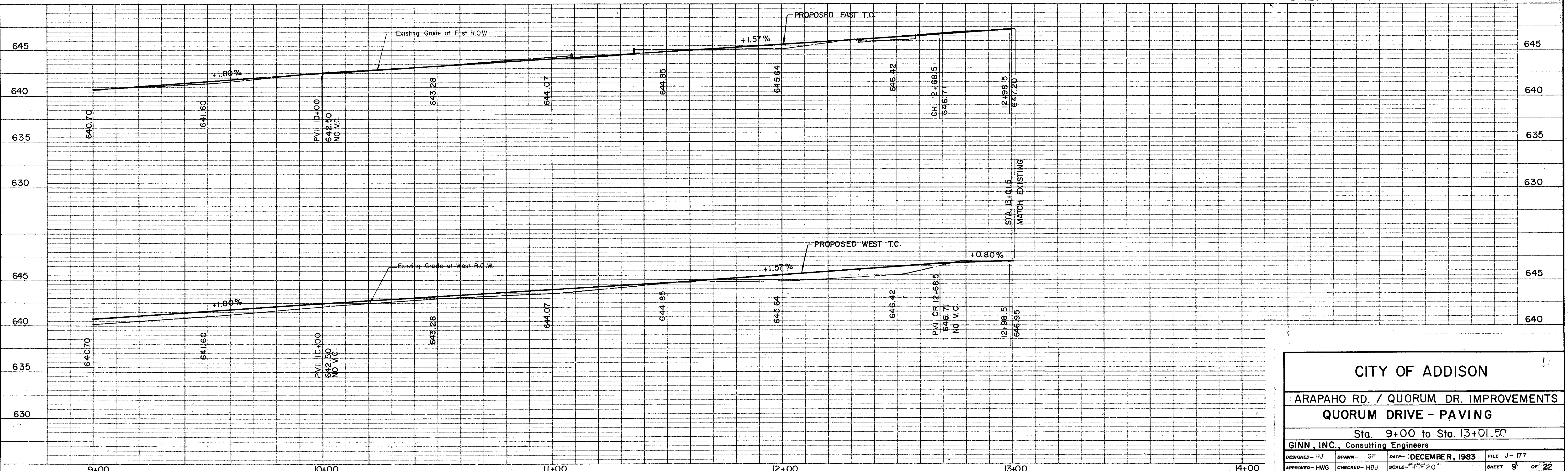
APPROVED - HWG CHECKED - HBJ SCALE - 1" = 20' SHEET 9 OF 22



SECT. A-A

NOTE: Any damage done to sprinkler systems due to construction operations shall be repaired or replaced immediately, to same or better condition, prior to damage, unless otherwise approved by engineer. This is not a separate pay item, but is considered incidental to construction.

B.M. "□" On S.E. Corner of Retaining Wall at S.E. Corner of Building For Whitaker Metals - 15251 Marcy Road (Elev. 637.61)
 B.M. "□" On Curb at N.W. Corner of Walk at the N.W. Corner of Shakeys. Pizza Belt Line at Marcy Drive (Elev. 646.07)



CITY OF ADDISON

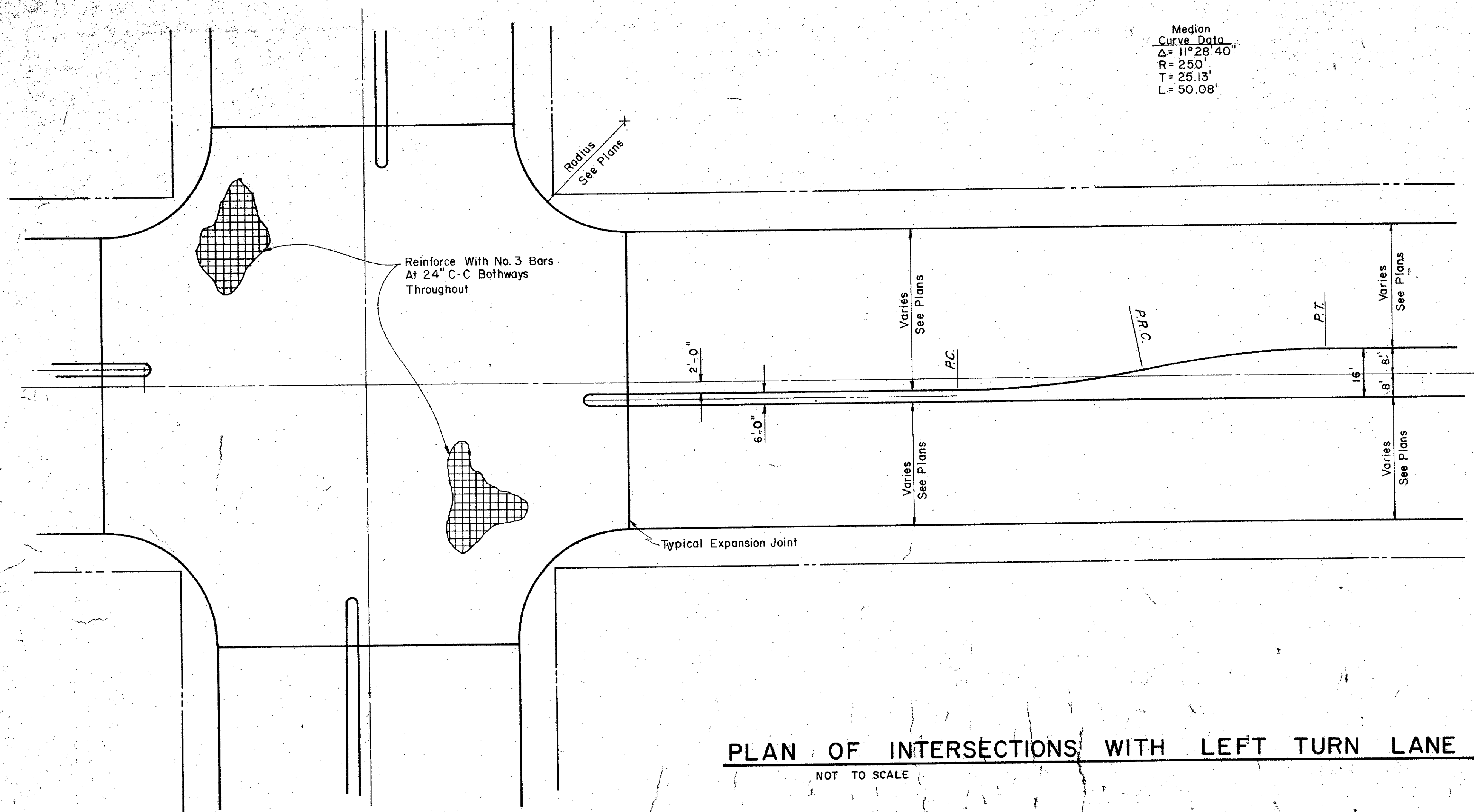
ARAPAHO RD. / QUORUM DR. IMPROVEMENTS

QUORUM DRIVE - PAVING

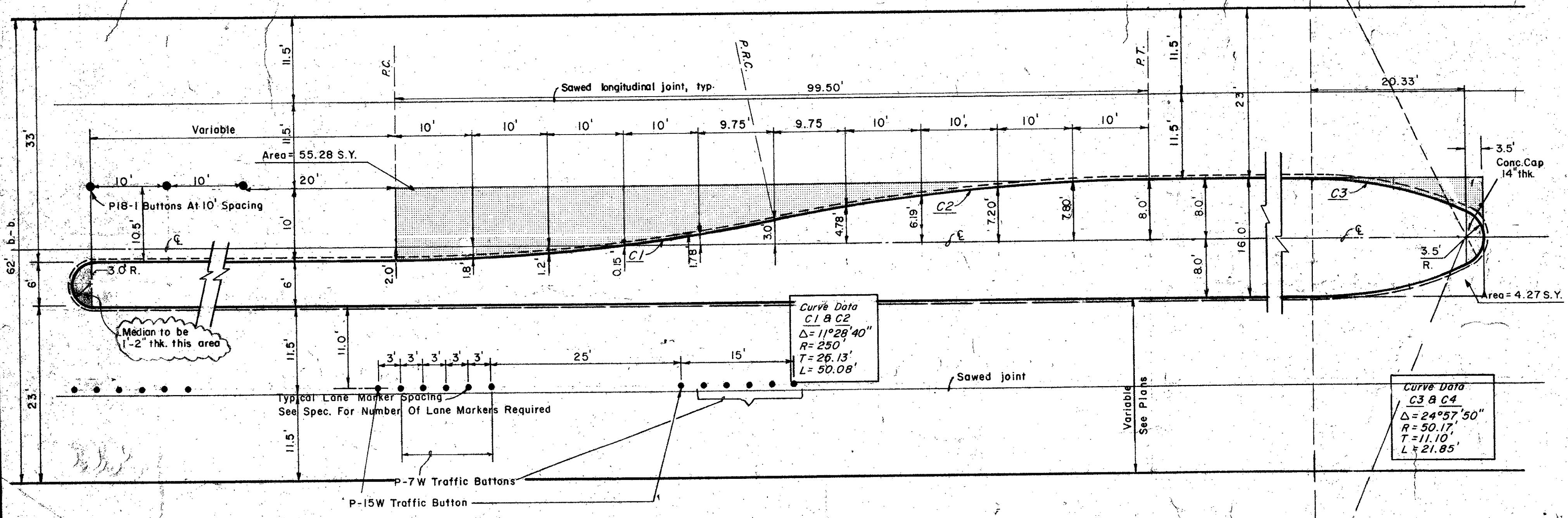
Sta. 9+00 to Sta. 13+01.50

GINN, INC., Consulting Engineers

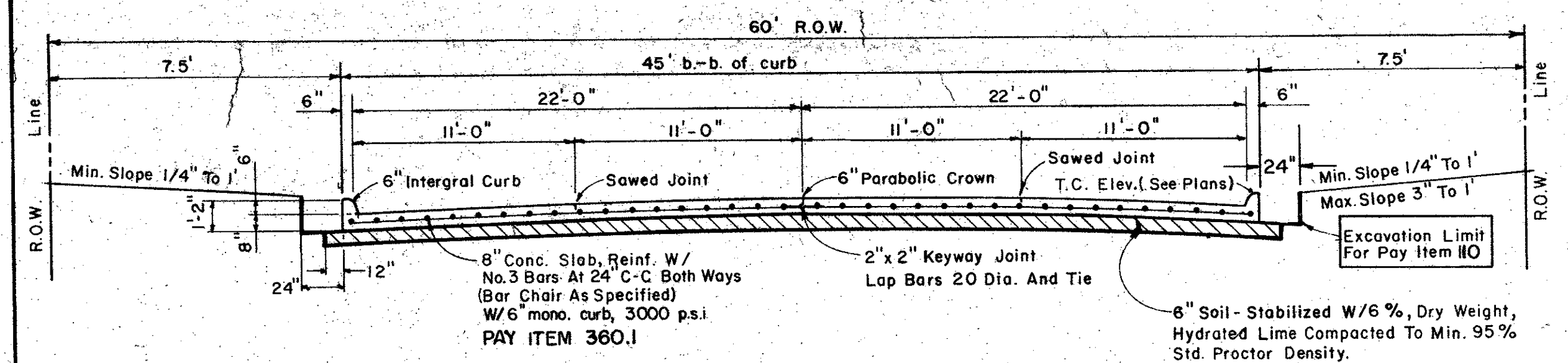
DESIGNED - HJ	DRAWN - GF	DATE - DECEMBER, 1983	FILE J-177
APPROVED - HWG	CHECKED - HBJ	SCALE - 1" = 20'	SHEET 9 OF 22



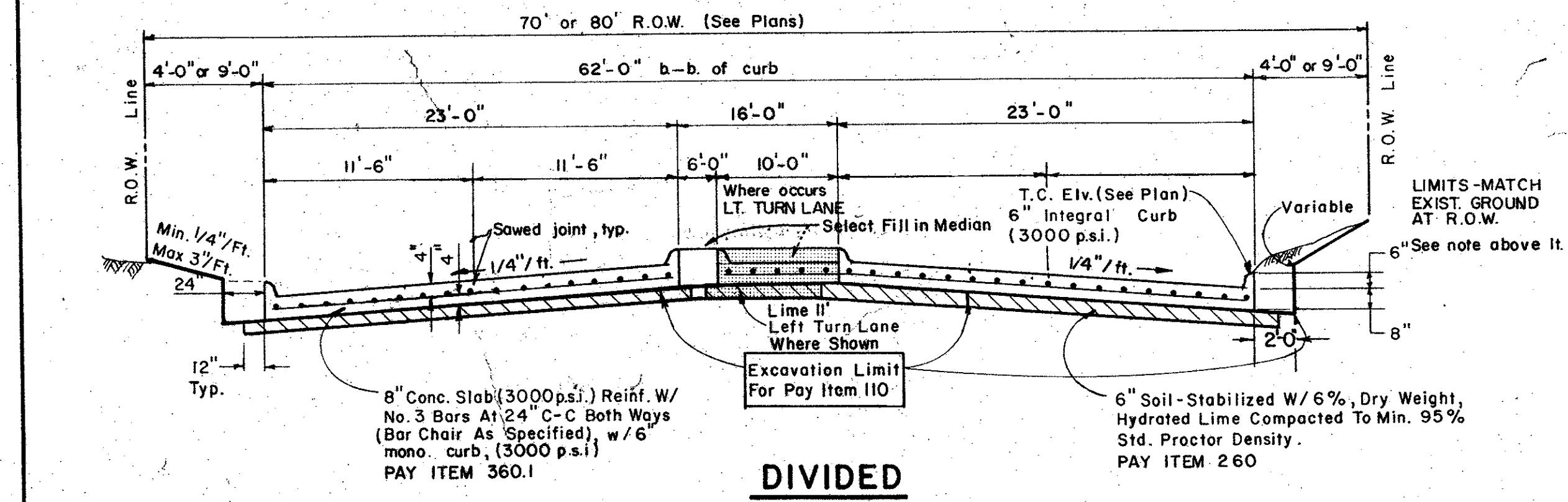
PLAN OF INTERSECTIONS WITH LEFT TURN LANE
NOT TO SCALE



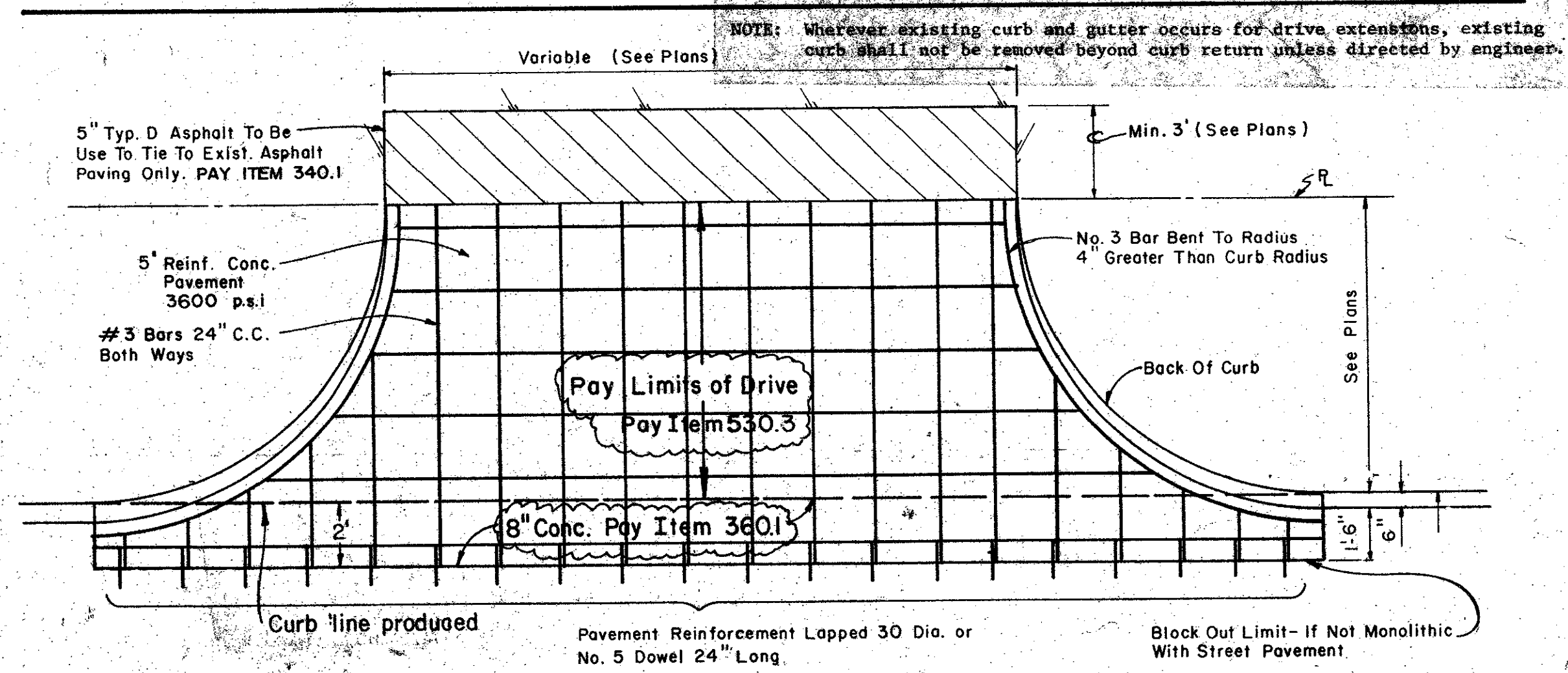
LEFT TURN LANE & LANE MARKER DETAIL



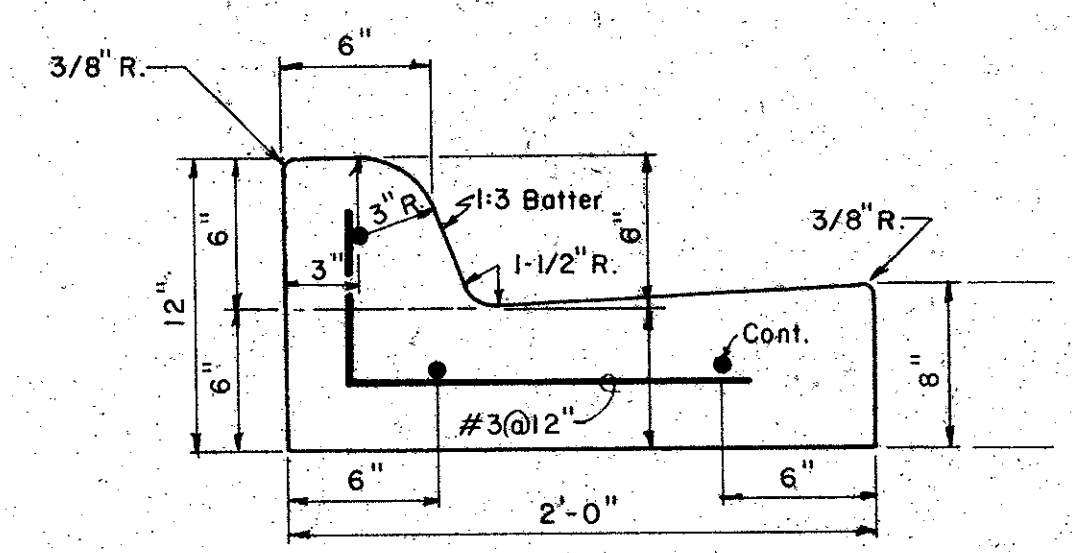
UNDIVIDED



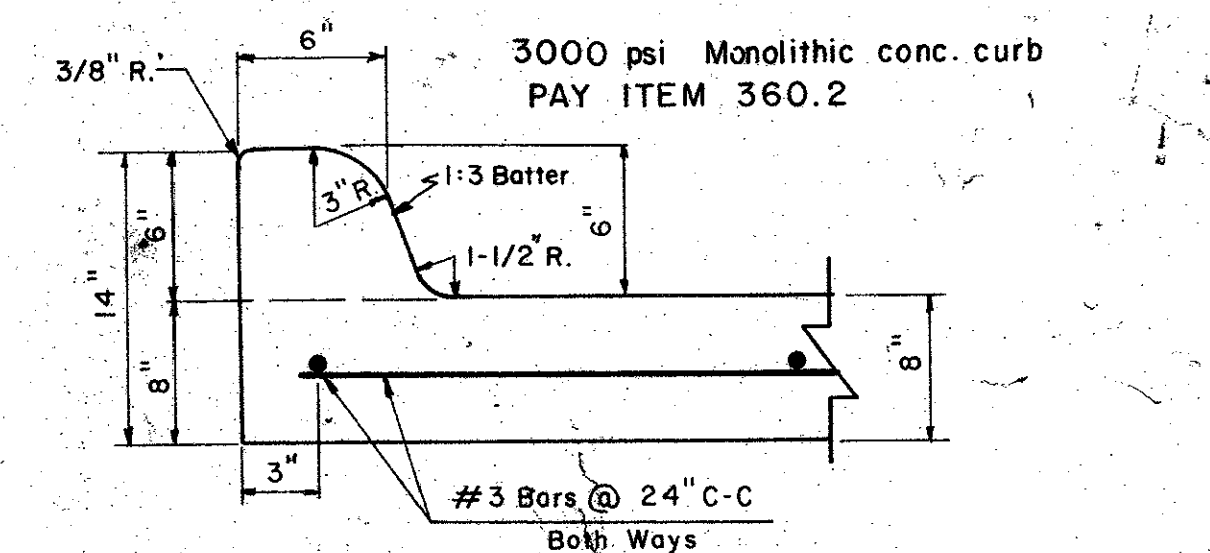
DIVIDED
TYPICAL PAVING SECTION DETAILS



DRIVEWAY PAVING DETAIL



SEPARATE CURB & GUTTER
REINFORCEMENT SHALL BE No. 5 BARS



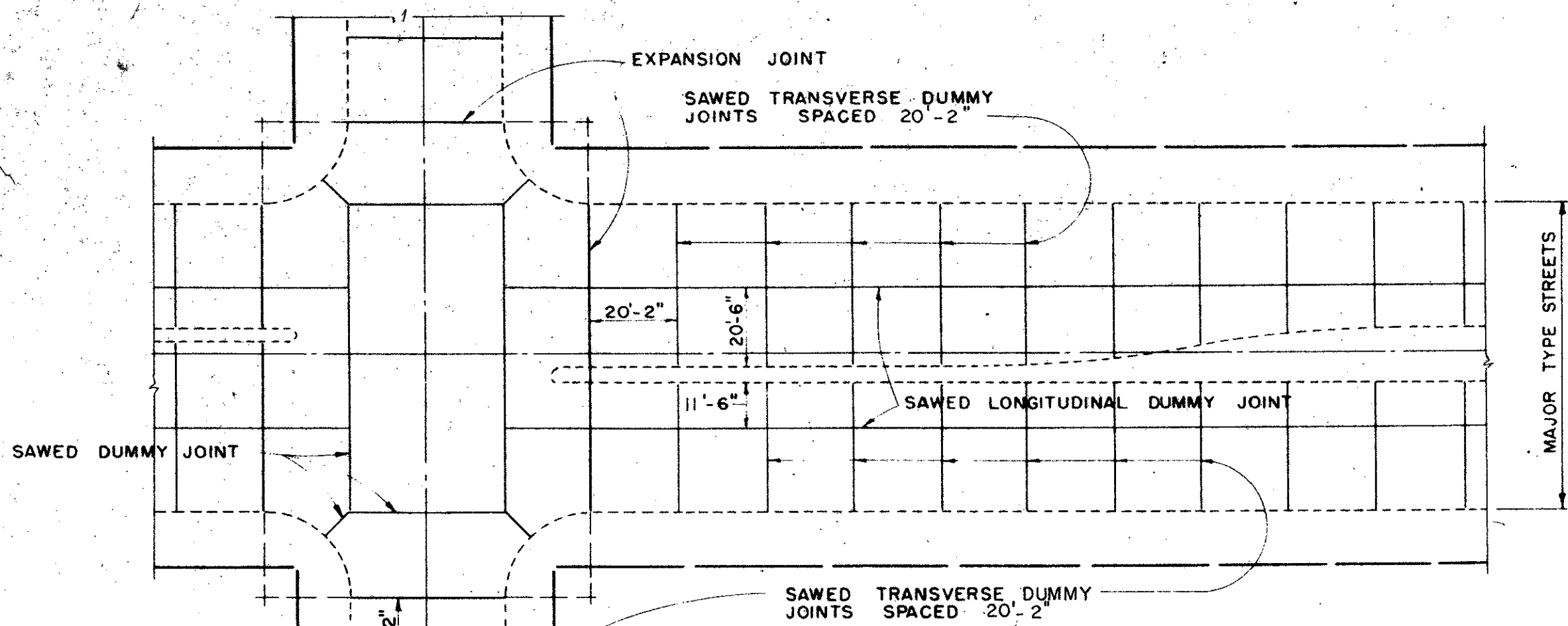
6" INTEGRAL CURB & GUTTER DETAIL

CITY OF ADDISON
DALLAS COUNTY, TEXAS
ARAPAHO ROAD / QUORUM DRIVE

PAVING DETAILS A

GINN, INC.
Consulting Engineers Dallas, Texas

DESIGNED: G.F. DRAWN: G.F. DATE: DECEMBER 1983 SHEET NO. J-177
APPROVED: H.G. CHECKED: G.F. SCALE: NONE SHEET 10 OF 22

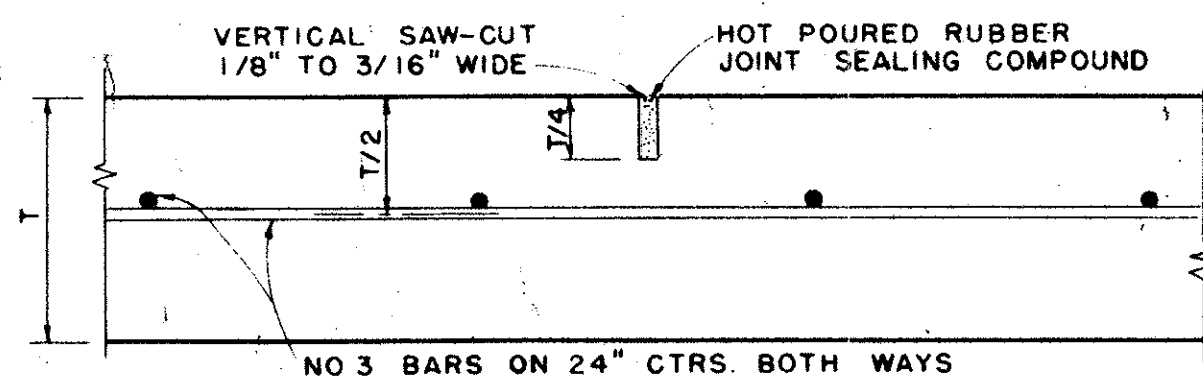


SPACING DIAGRAM FOR JOINTS

IDENTICAL FOR STREETS (CONCRETE PAVEMENT OR BASE) AND ALLEYS EXCEPT THAT EXPANSION JOINTS FOR ALLEYS SHALL BE PLACED AT THE END OF THE RETURN IN LINE WITH THE PROPERTY LINE. SPACING OF EXPANSION JOINTS SHALL NOT EXCEED 600 FEET.

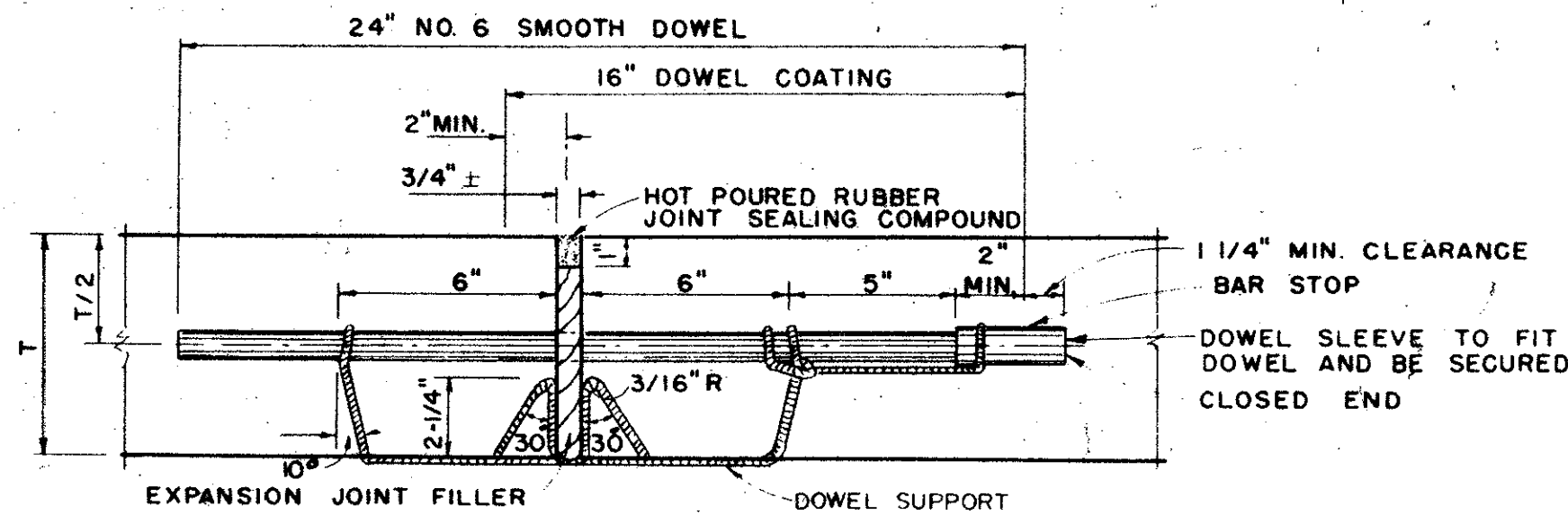
CONSTRUCTION JOINT OR SAWED LONGITUDINAL DUMMY JOINT ALONG C.L. OF ALL SINGLE ROADWAY SECTIONS EXCEPT 20' ROADWAY.

ADDITIONAL SIMILAR JOINT 10'-0" EACH SIDE C.L. FOR 56' & 60' ROADWAY SECTIONS

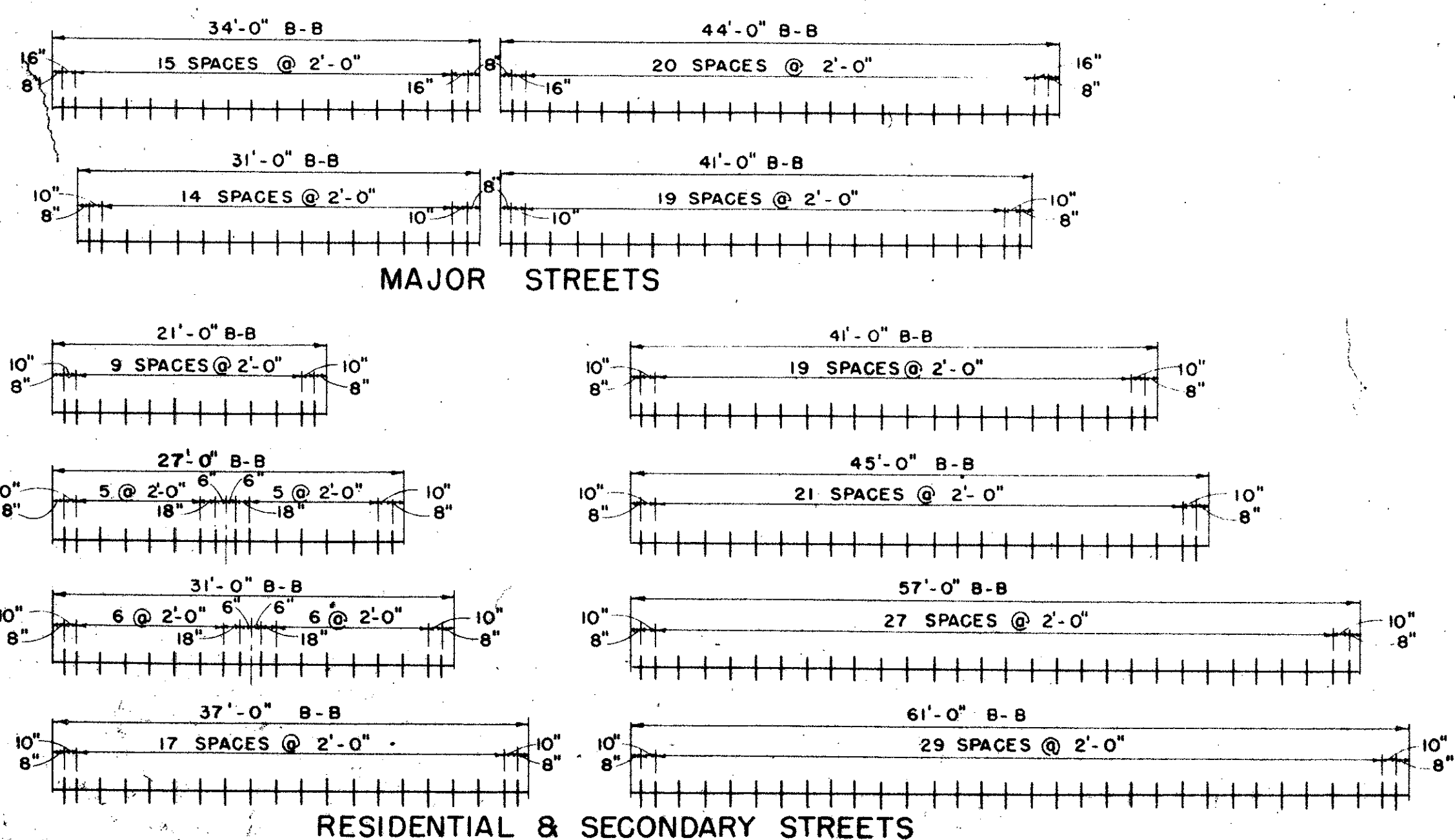


SAWED DUMMY JOINT

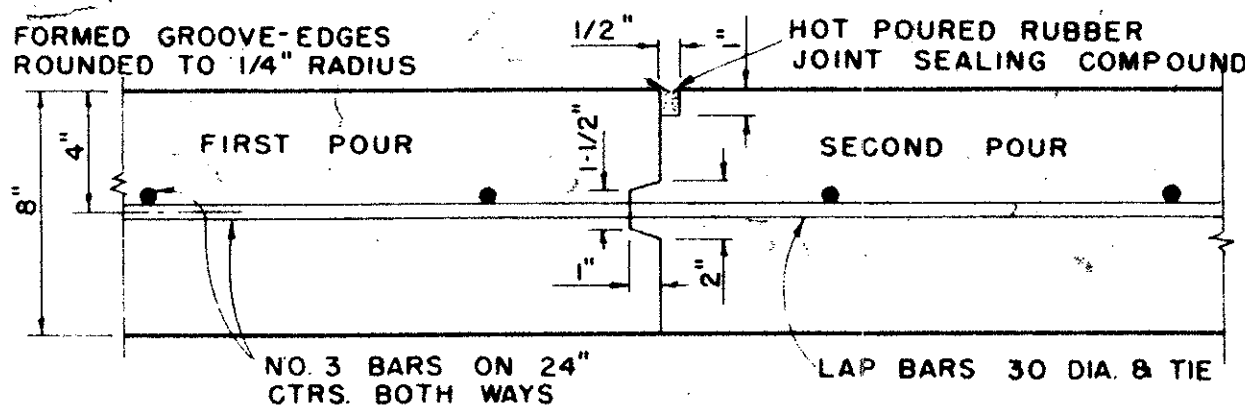
IDENTICAL FOR STREETS AND ALLEYS EXCEPT ALLEY LONGITUDINAL REINFORCEMENT BARS



TRANSVERSE EXPANSION JOINT
IDENTICAL FOR STREETS & ALLEYS

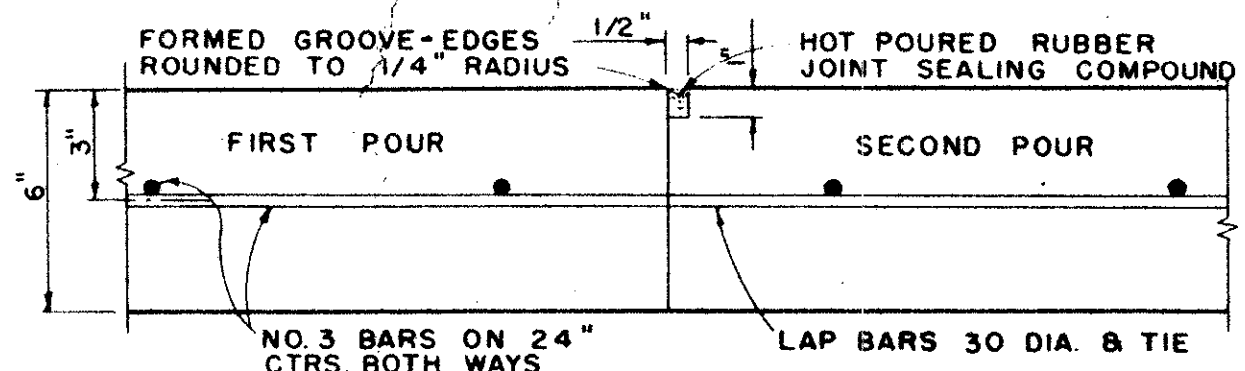


SPACING DIAGRAM FOR DOWELS AT EXPANSION JOINTS



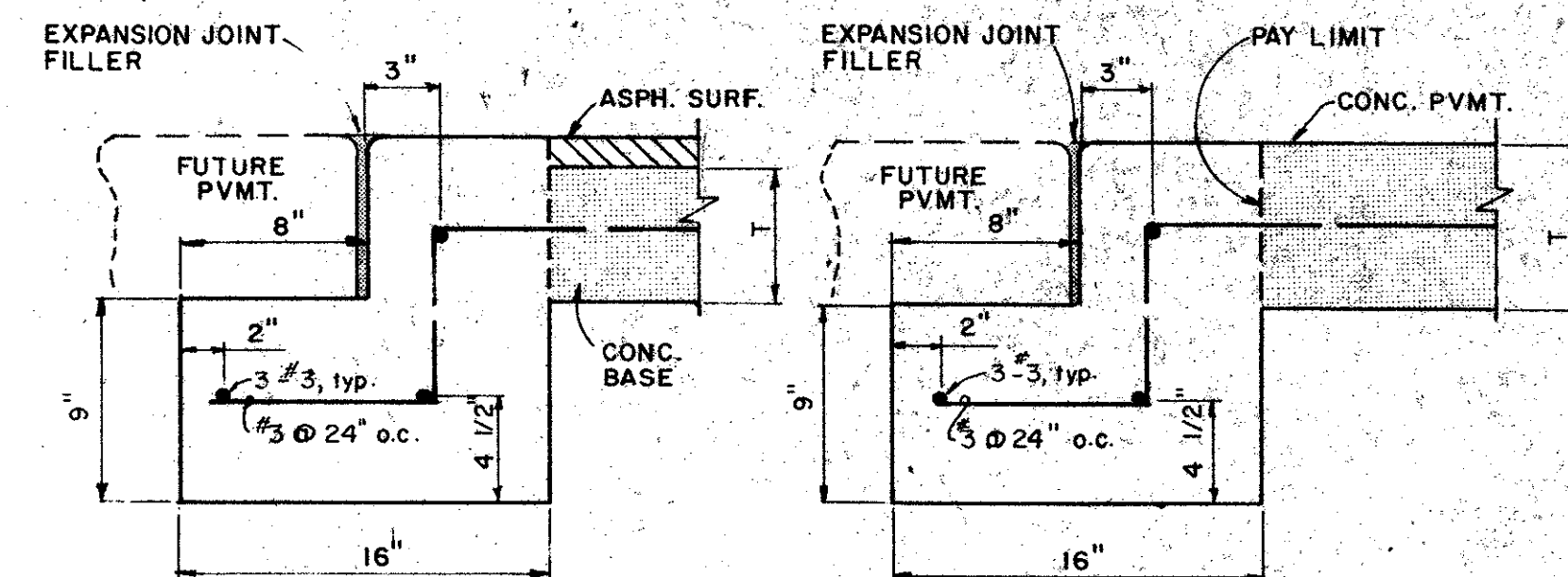
CONSTRUCTION JOINT

FOR 8" THICKNESS PAVEMENT OR BASE



CONSTRUCTION JOINT

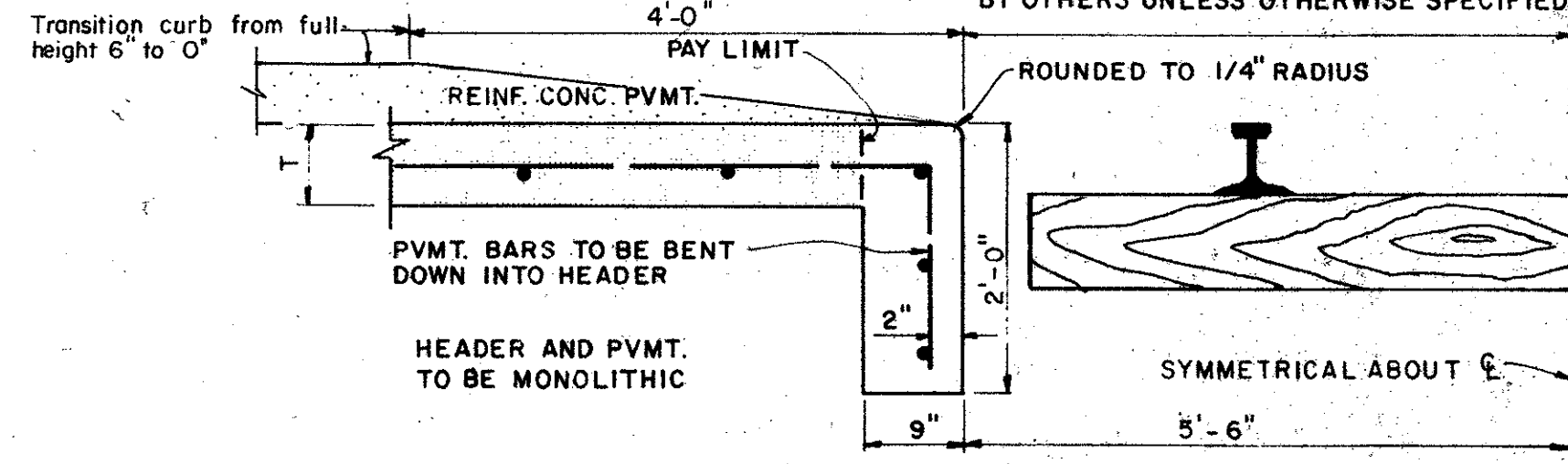
IDENTICAL FOR STREETS AND ALLEYS EXCEPT ALLEY LONGITUDINAL REINFORCEMENT BARS



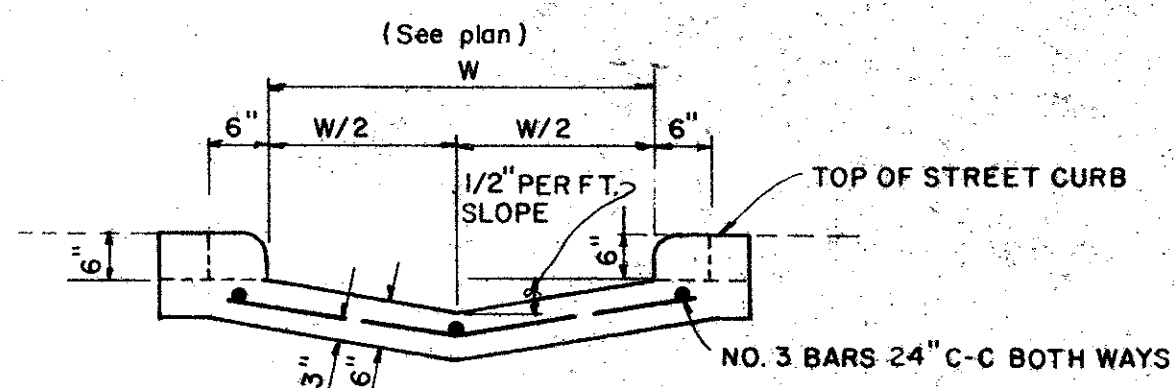
STREET HEADER
PAY ITEM 360.3

FOR ASPHALT PAVEMENT ON CONC. BASE, SEE STREET HEADER DETAIL ABOVE.

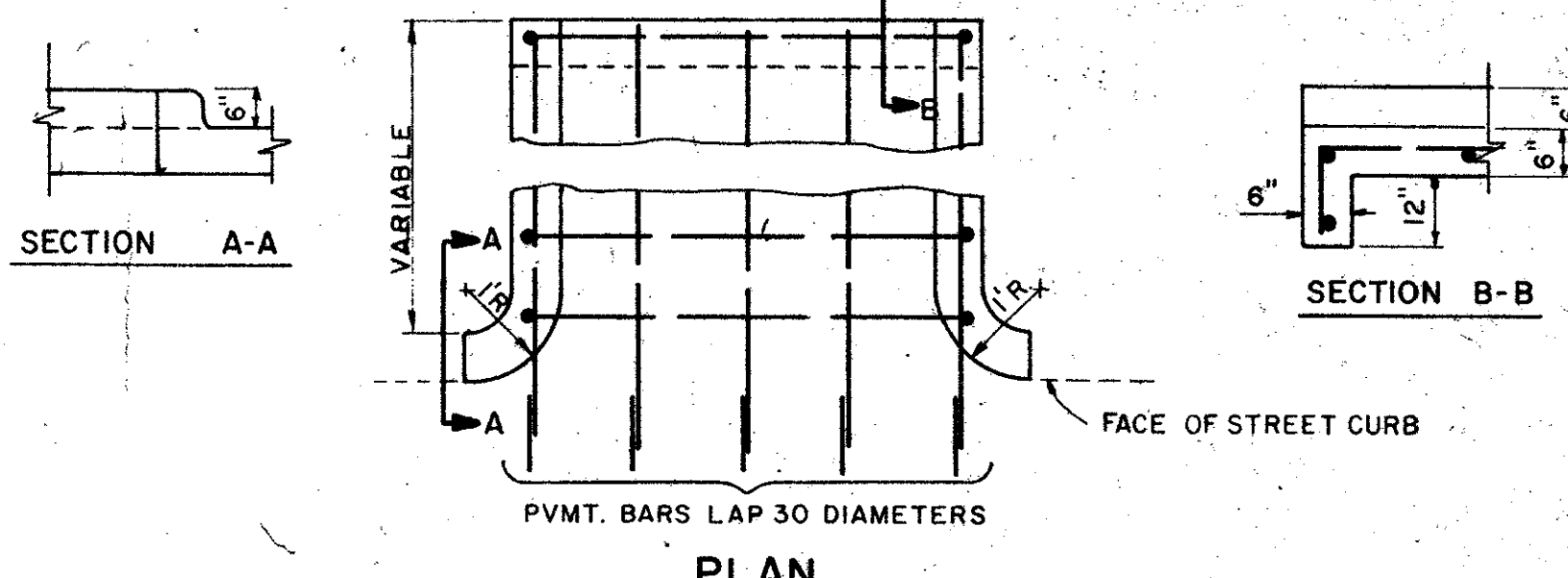
ALL WORK BETWEEN HEADERS TO BE DONE BY OTHERS UNLESS OTHERWISE SPECIFIED



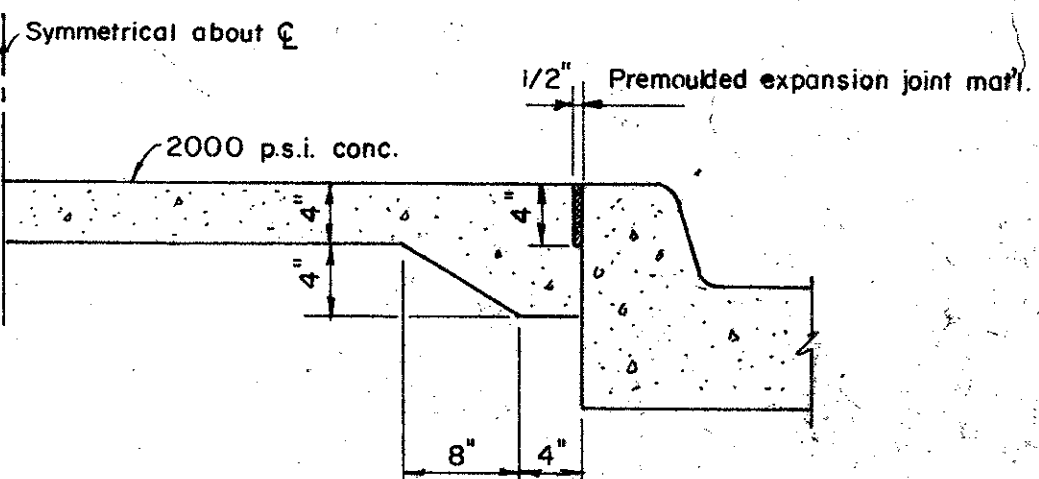
RAILROAD HEADER
PAY ITEM 360.3



SECTION AT CURB FACE



FLUME



NON-REINFORCED MEDIAN PAVEMENT

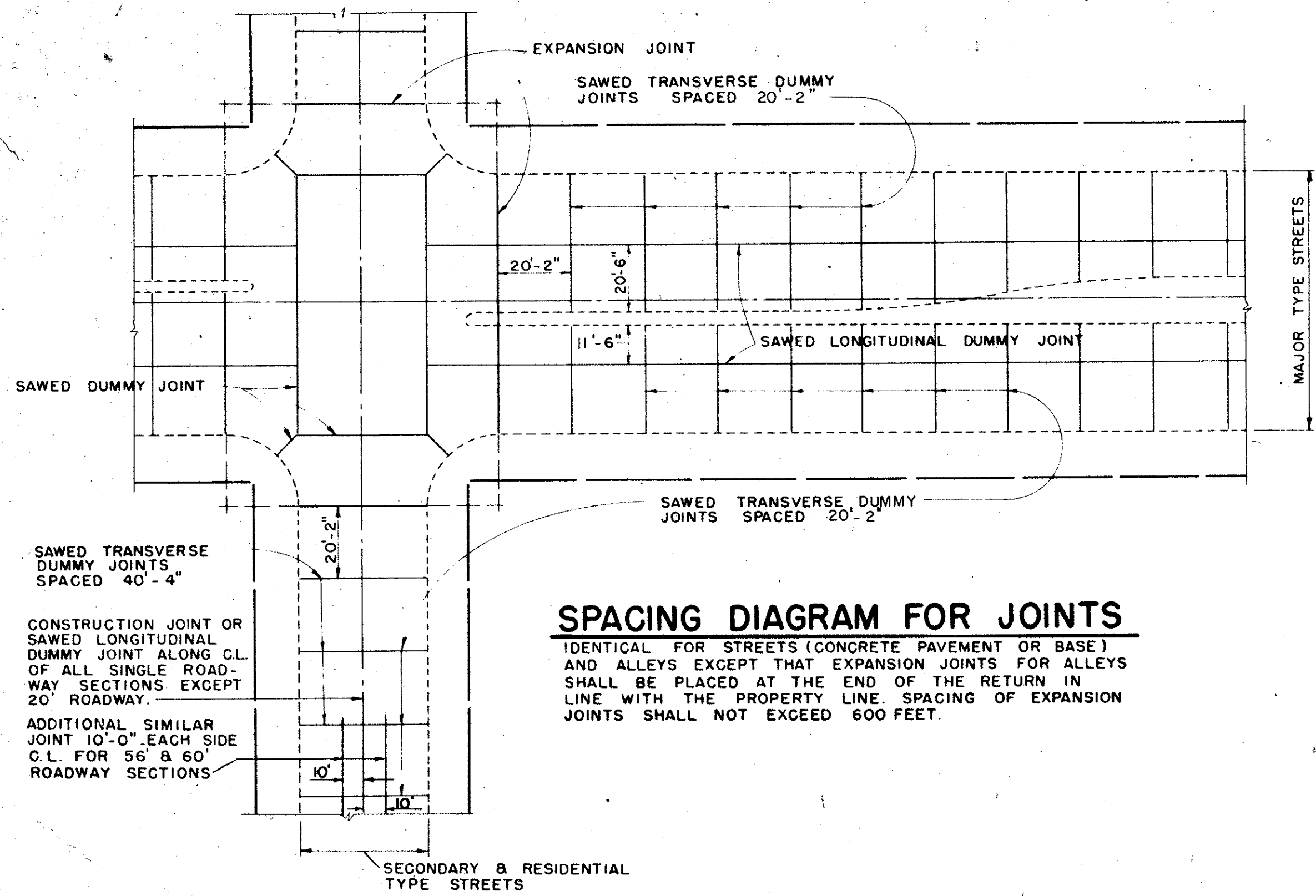
IN ALL AREAS LESS THAN 6' BC TO BC UNLESS OTHERWISE DIRECTED BY ENGINEER.

CITY OF ADDISON
DALLAS COUNTY, TEXAS
ARAPAHO ROAD/ QUORUM DRIVE

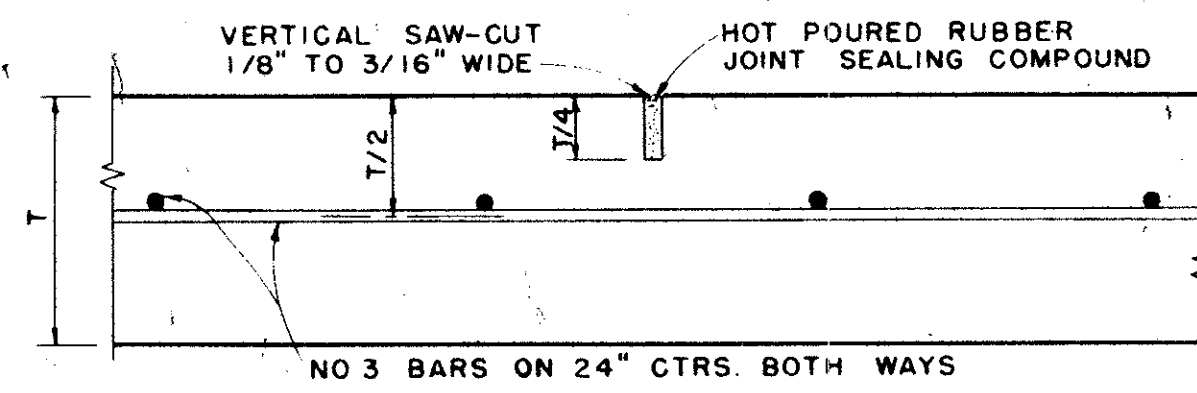
PAVING DETAILS B

GINN, INC.
Consulting Engineers Dallas, Texas

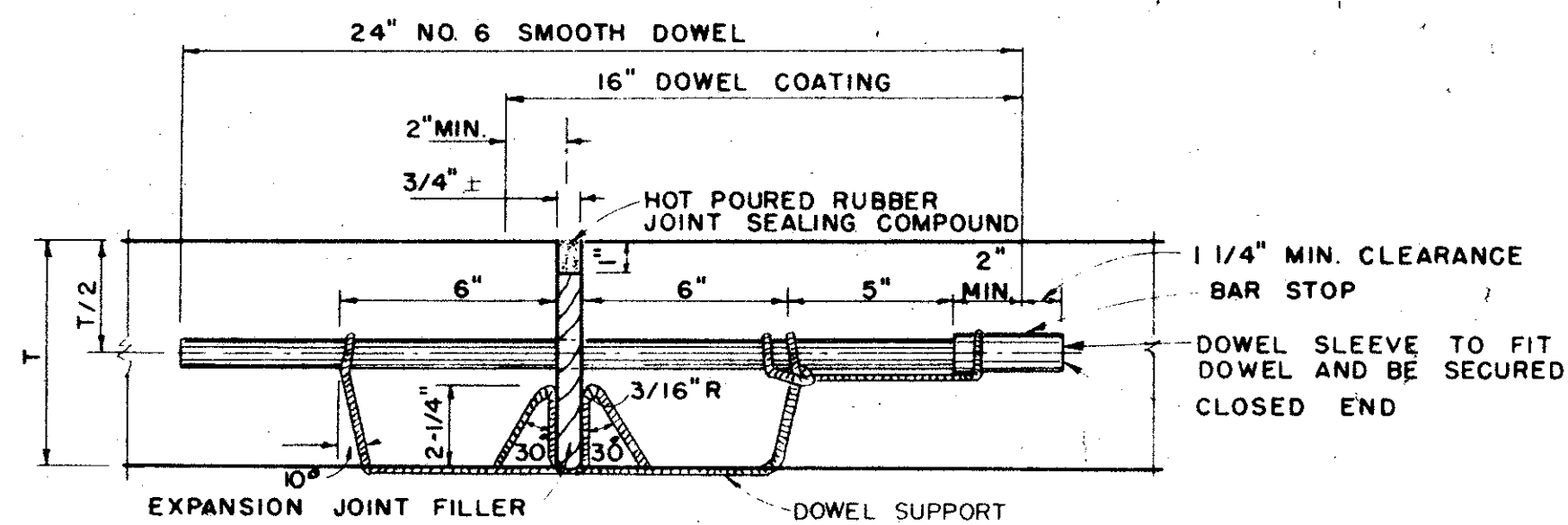
DESIGNED: G.F. DRAWN: G.F. DATE: DECEMBER, 1983 JOB No. J.122
APPROVED: H.G. CHECKED: G.F. SCALE: NONE SHEET 1 OF 24



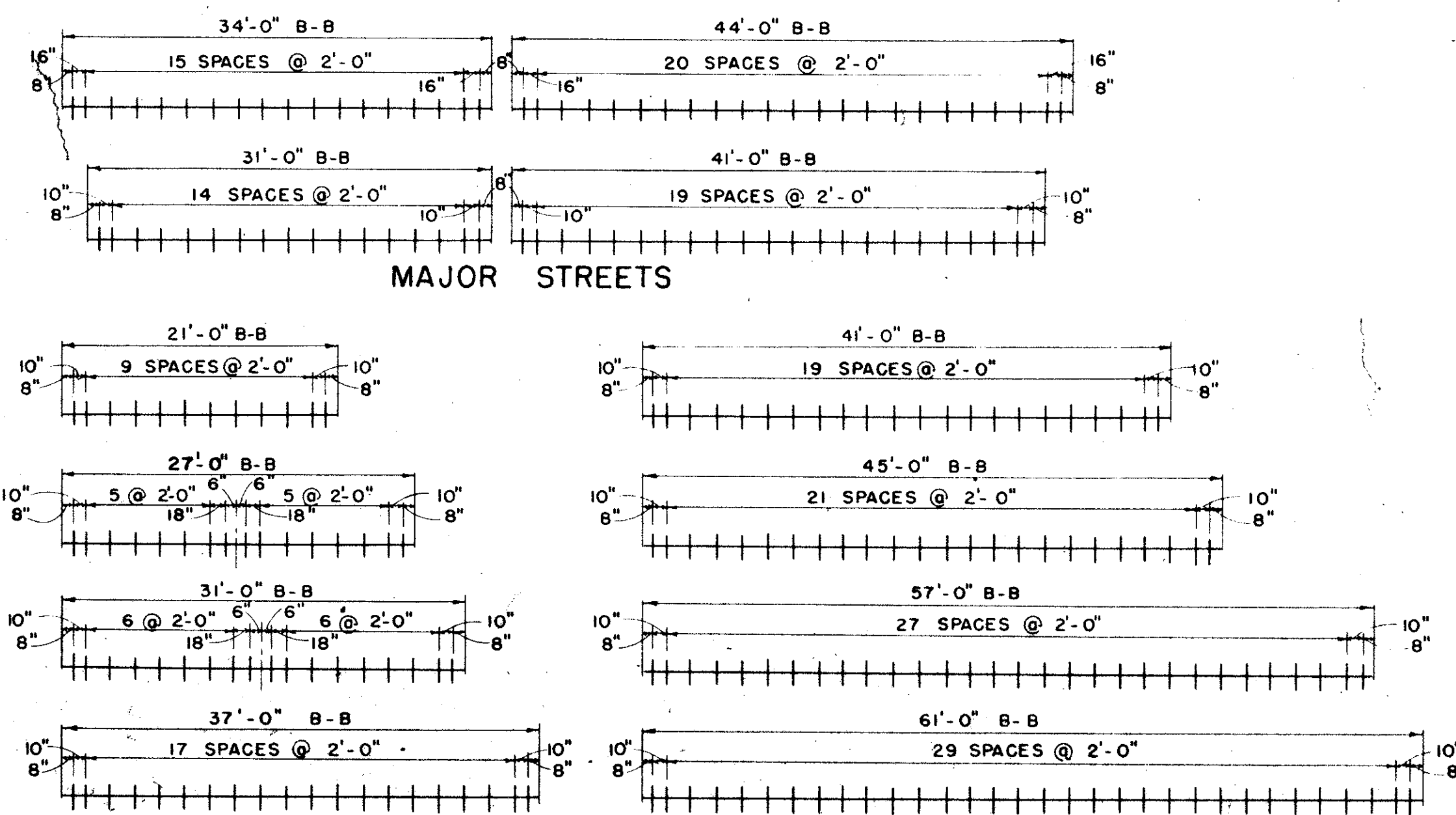
SPACING DIAGRAM FOR JOINTS
IDENTICAL FOR STREETS (CONCRETE PAVEMENT OR BASE) AND ALLEYS EXCEPT THAT EXPANSION JOINTS FOR ALLEYS SHALL BE PLACED AT THE END OF THE RETURN IN LINE WITH THE PROPERTY LINE. SPACING OF EXPANSION JOINTS SHALL NOT EXCEED 600 FEET.



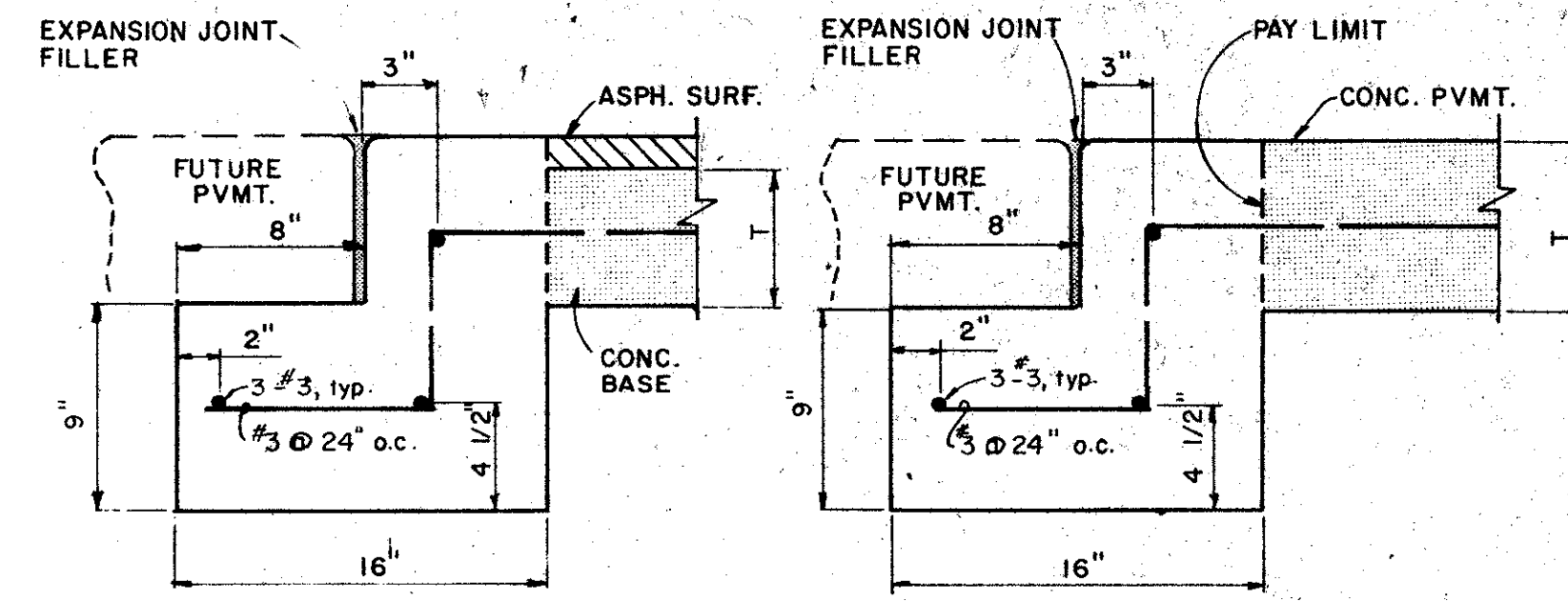
SAWED DUMMY JOINT
IDENTICAL FOR STREETS AND ALLEYS EXCEPT ALLEY LONGITUDINAL REINFORCEMENT BARS



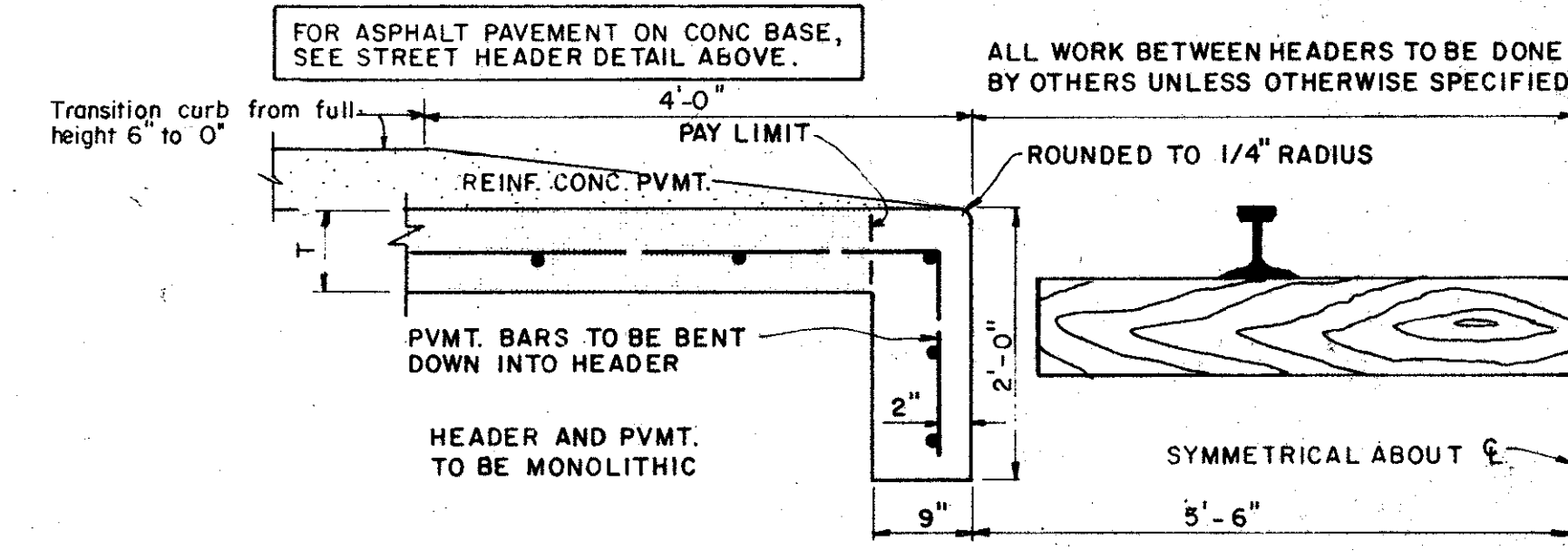
TRANSVERSE EXPANSION JOINT
IDENTICAL FOR STREETS & ALLEYS



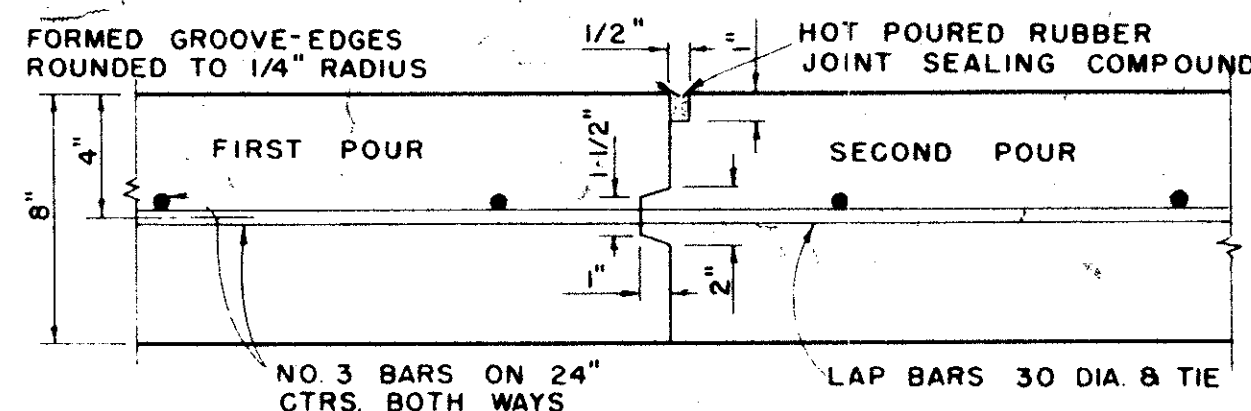
SPACING DIAGRAM FOR DOWELS AT EXPANSION JOINTS



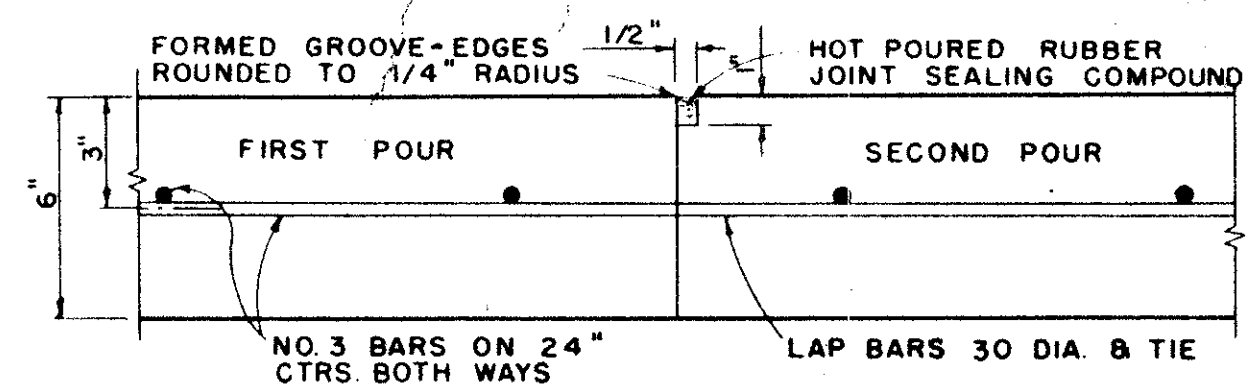
STREET HEADER
PAY ITEM 360.3



RAILROAD HEADER
PAY ITEM 360.3

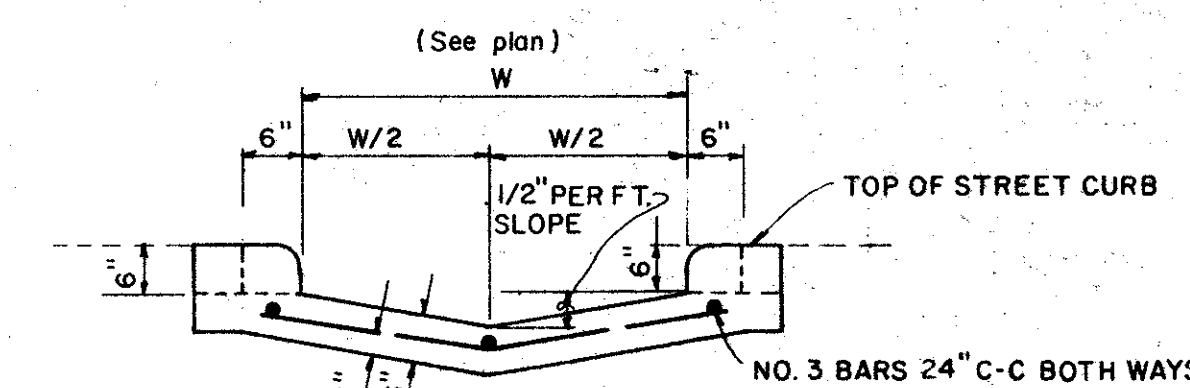


CONSTRUCTION JOINT
FOR 8" THICKNESS PAVEMENT OR BASE

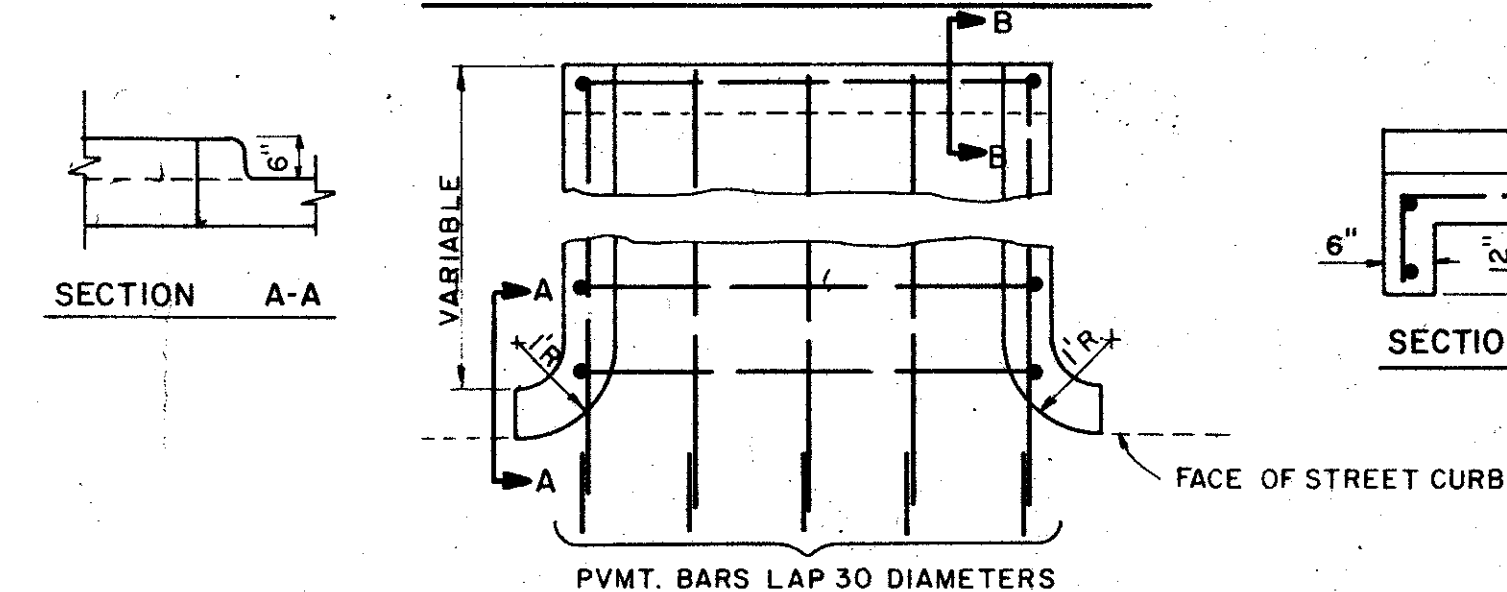


CONSTRUCTION JOINT
FOR 6" THICKNESS PAVEMENT OR BASE

IDENTICAL FOR STREETS AND ALLEYS EXCEPT ALLEY LONGITUDINAL REINFORCEMENT BARS



SECTION AT CURB FACE



NON-REINFORCED MEDIAN PAVEMENT

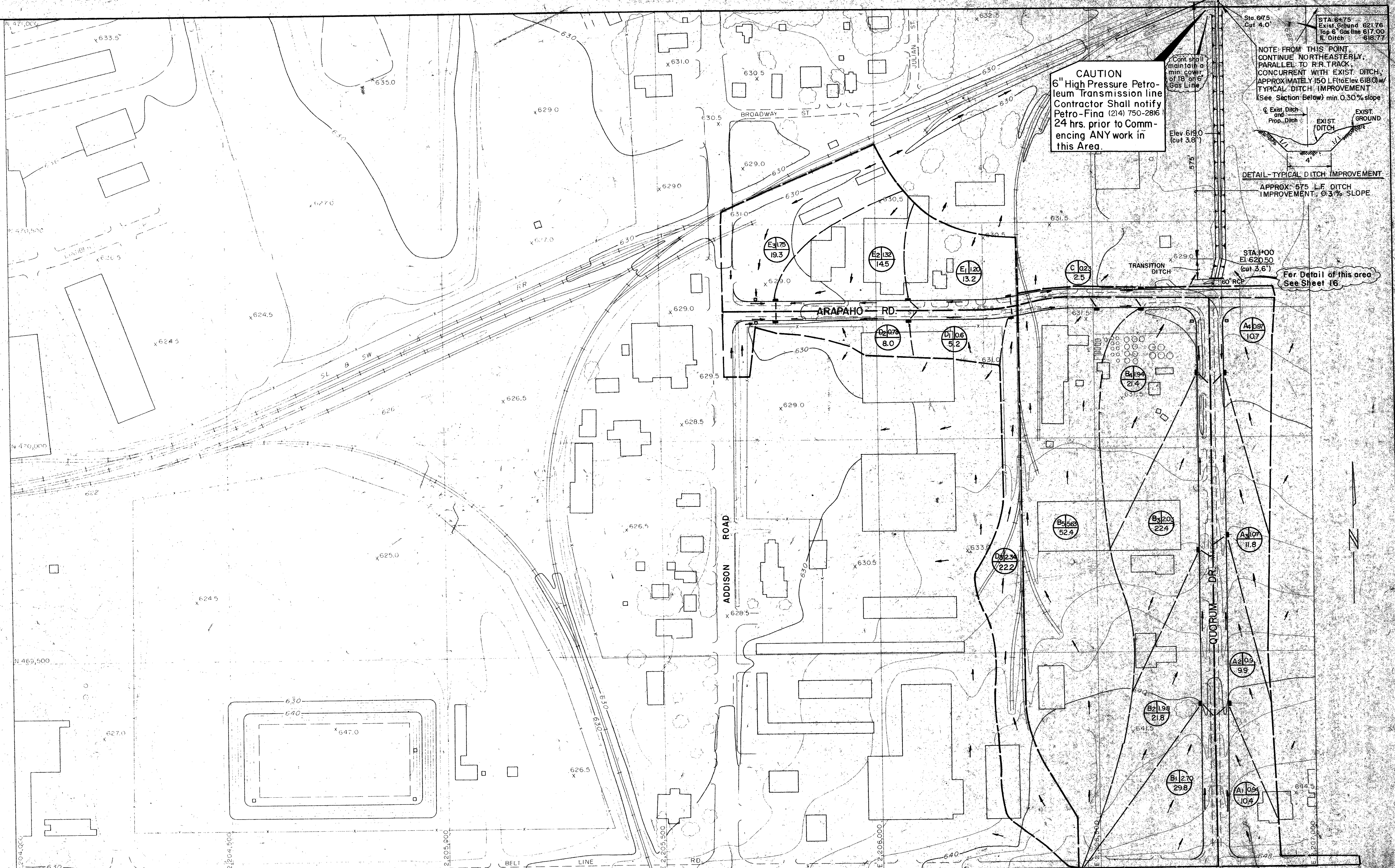
IN ALL AREAS LESS THAN 6' BC TO BC UNLESS OTHERWISE DIRECTED BY ENGINEER.

CITY OF ADDISON
DALLAS COUNTY, TEXAS
ARAPAHO ROAD/QUORUM DRIVE

PAVING DETAILS B

GINN, INC.
Consulting Engineers Dallas, Texas

DESIGNED: G.F. DRAWN: G.F. DATE: DECEMBER 1983 JOB No. J 122
APPROVED: H.G. CHECKED: G.F. SCALE: NONE SHEET 11 OF 22

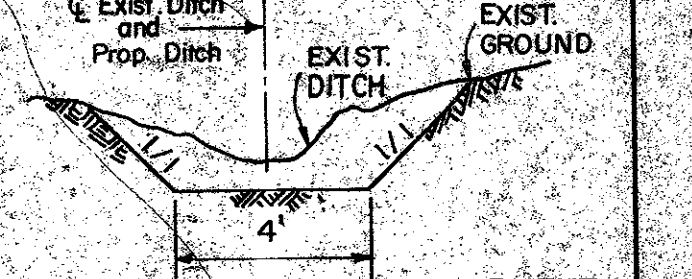


CAUTION
 6" High Pressure Petroleum Transmission line
 Contractor Shall notify
 Petro-Fina (214) 750-2816
 24 hrs. prior to Commencing ANY work in
 this Area.

Cont. shall maintain a min. cover of 18" on 6" Gas Line

Sta. 675
 Cut 4.0'
 STA. 675
 Exist. Ground 621.76
 Top 6" Gas line 617.00
 E. Ditch 618.77

NOTE: FROM THIS POINT
 CONTINUE NORTHEASTERLY,
 PARALLEL TO R.R. TRACK,
 CONCURRENT WITH EXIST. DITCH,
 APPROXIMATELY 150 LF (to Elev. 618.0) w/
 TYPICAL DITCH IMPROVEMENT
 (See Section Below) min. 0.30% slope



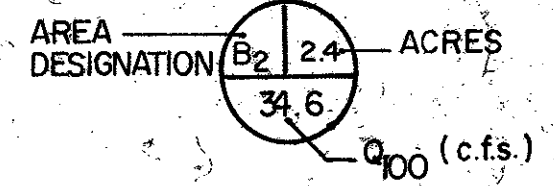
DETAIL-TYPICAL DITCH IMPROVEMENT
 APPROX. 575 L.F. DITCH
 IMPROVEMENT, 0.3% SLOPE

STA. 1+00
 El. 620.50
 (cut 3.6')
 For Detail of this area
 See Sheet 16

DRAINAGE CALCULATIONS (Tech. Paper 40)
 Rational Formula $Q = CIA$, where $C = 0.95$

$I =$ Intensity, in./hr.
 I_{100} (min $I = 1.6$)
 $T_1 = 10$ minutes

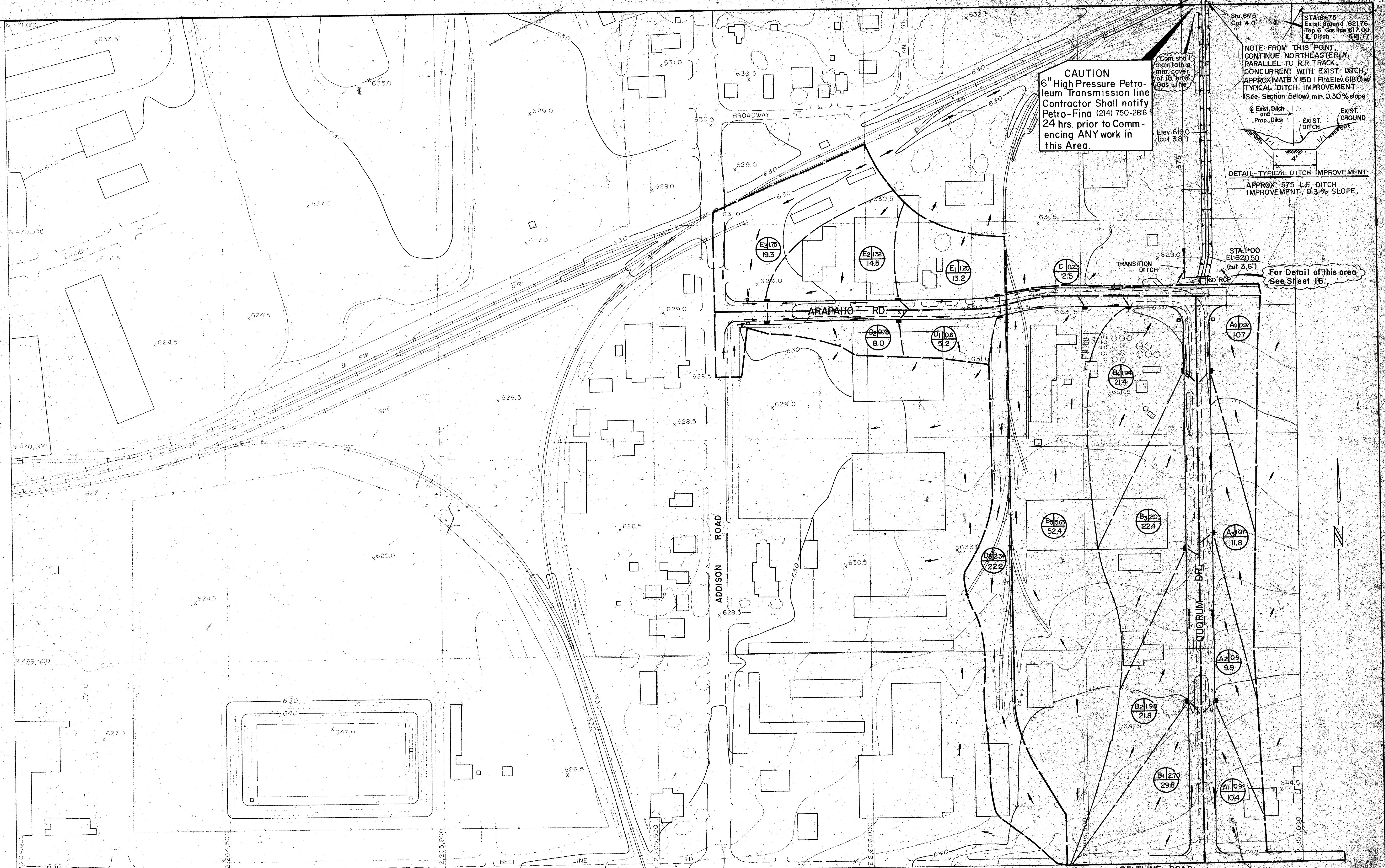
$A =$ Area, acres



CITY OF ADDISON

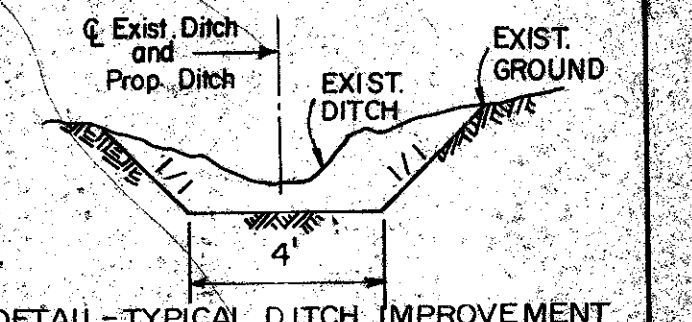
ARAPAHO RD./QUORUM DR. IMPROVEMENTS
 DRAINAGE AREA MAP

GINN, INC., Consulting Engineers
 Designed - G.F. Drawn - G.F. Date - DECEMBER, 1965
 Approved - H.W.G. Checked - G.F. Scale - 1" = 100' Sheet 12 OF 22



CAUTION
 6" High Pressure Petroleum Transmission line
 Contractor Shall notify
 Petro-Fina (214) 750-2816
 24 hrs. prior to Commencing ANY work in
 this Area.

NOTE: FROM THIS POINT
 CONTINUE NORTHEASTERLY
 PARALLEL TO R.R. TRACK,
 CONCURRENT WITH EXIST. DITCH,
 APPROXIMATELY 150 LF (to Elev 618.0) w/
 TYPICAL DITCH IMPROVEMENT
 (See Section Below) min. 0.30% slope



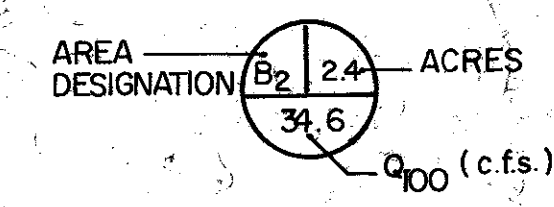
APPROX. 575 L.F. DITCH
 IMPROVEMENT, 0.3% SLOPE

For Detail of this area
 See Sheet 16

DRAINAGE CALCULATIONS (Tech. Paper 40)
 Rational Formula $Q = C \cdot I \cdot A$, where $C = 0.95$

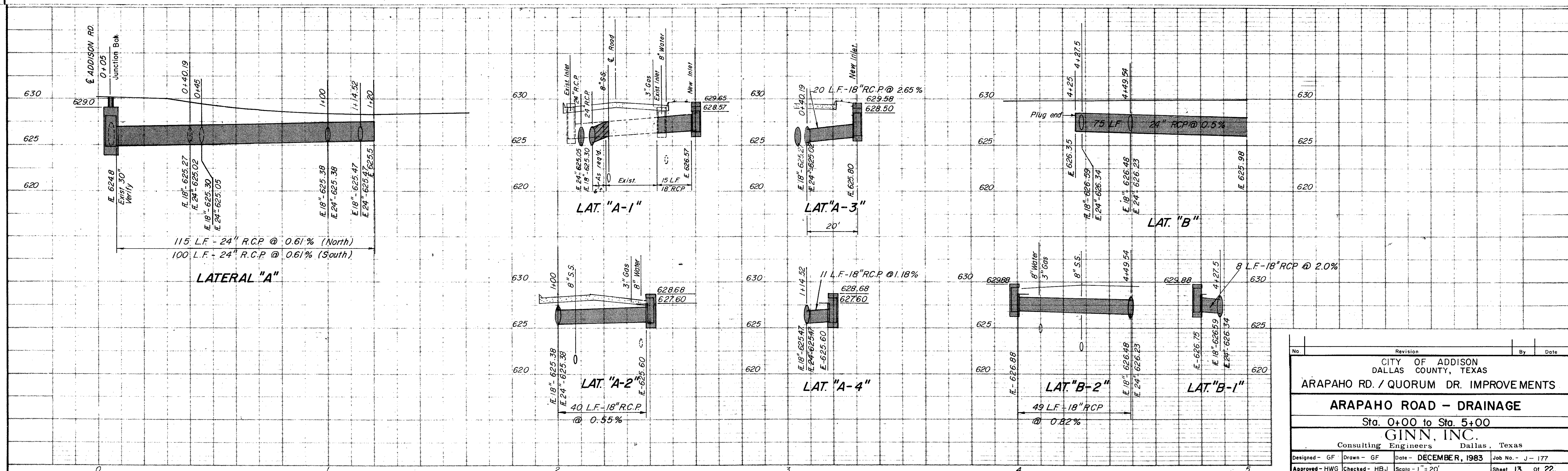
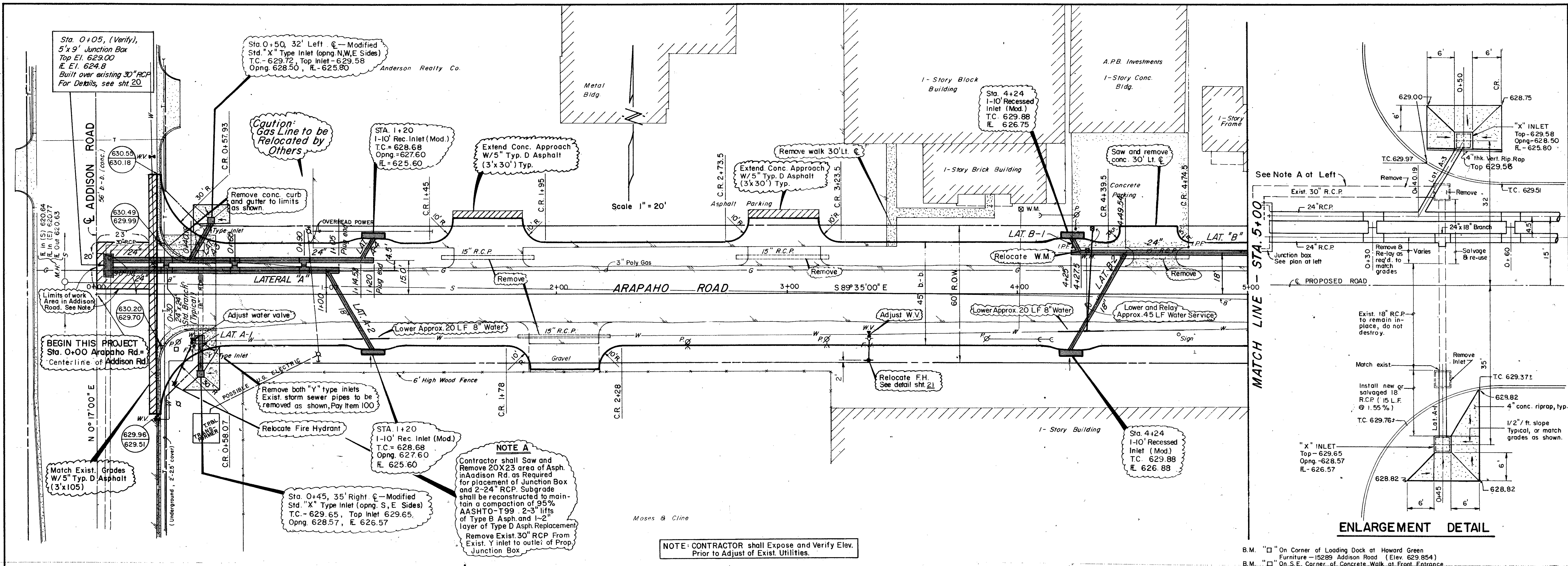
$I =$ Intensity, in./hr.
 I_{100} (min $I = 11.6$)
 I_{100} (minutes)

$A =$ Area, acres

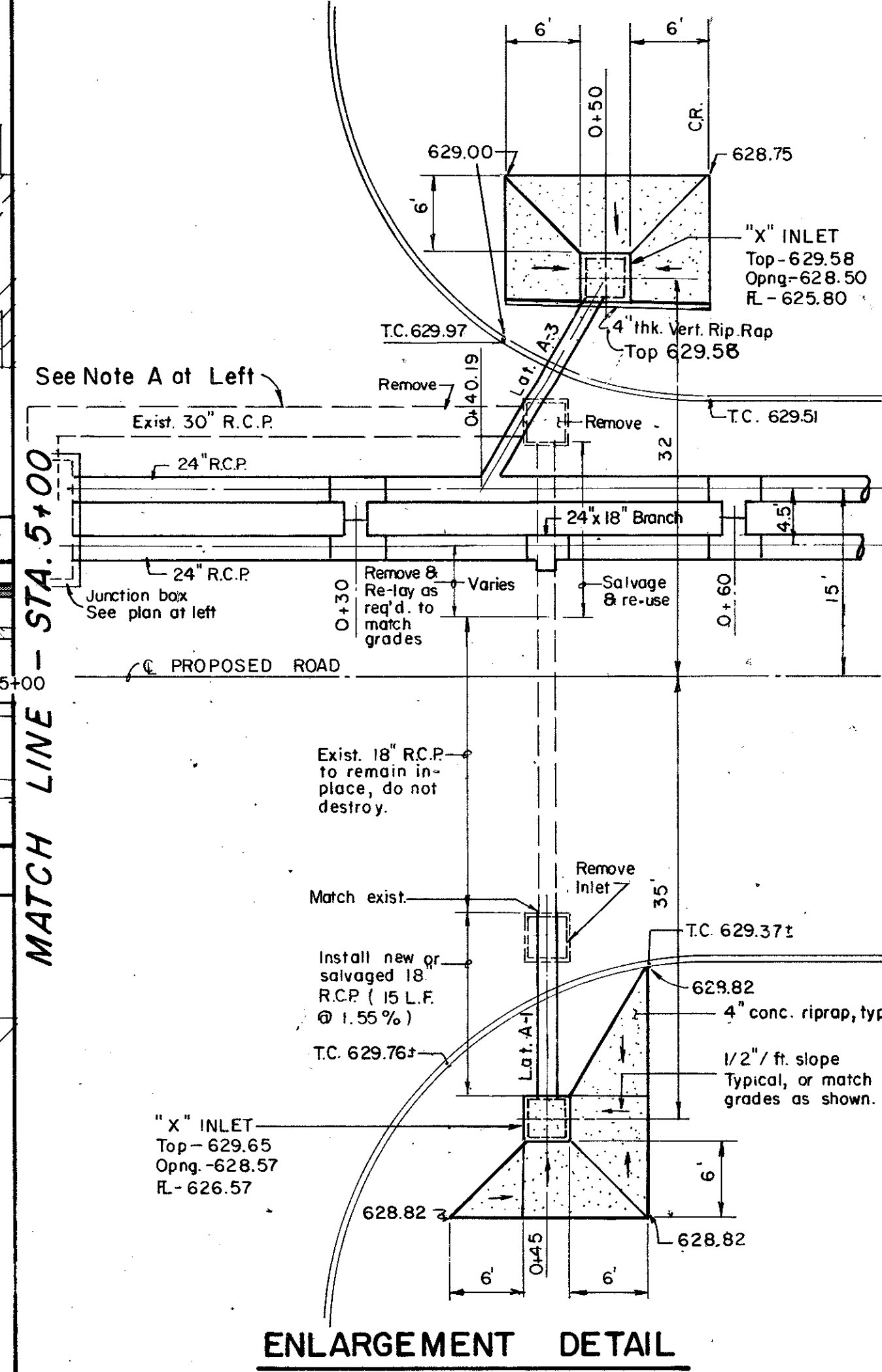
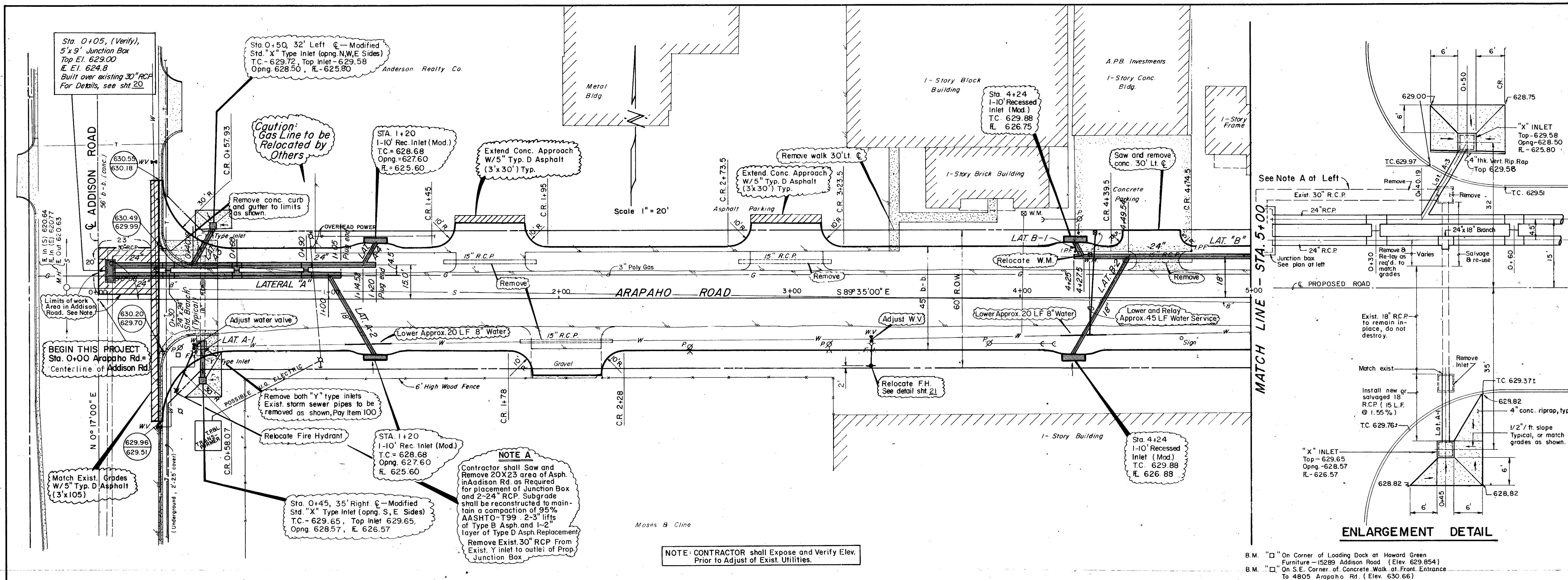


CITY OF ADDISON
ARAPAHO RD./QUORUM DR. IMPROVEMENTS
DRAINAGE AREA MAP

GINN, INC., Consulting Engineers
 Designed - G.F. Drawn - G.F. Date - DECEMBER, 1983
 Approved - H.W.G. Checked - G.F. Scale - 1" = 100' Sheet 12 of 22

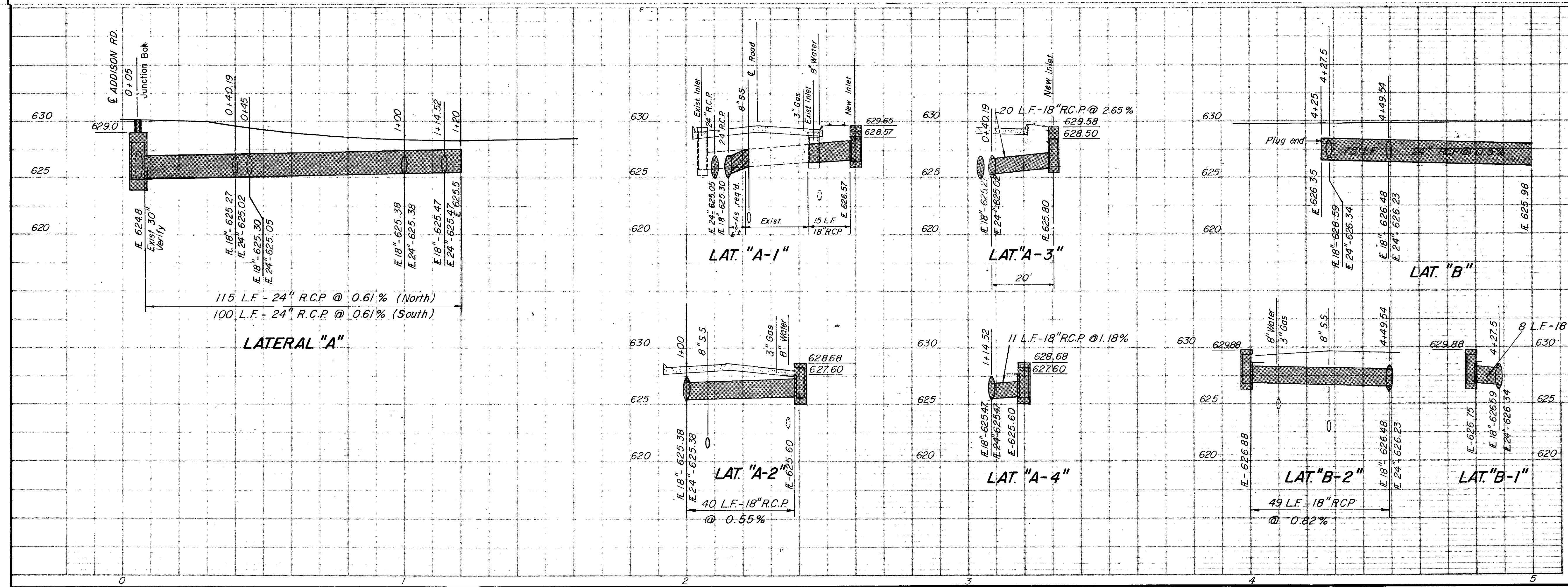


No.	Revision	By	Date
CITY OF ADDISON DALLAS COUNTY, TEXAS ARAPAHO RD. / QUORUM DR. IMPROVEMENTS ARAPAHO ROAD - DRAINAGE Sta. 0+00 to Sta. 5+00 GINN, INC. Consulting Engineers Dallas, Texas Designed - GF Drawn - GF Date - DECEMBER, 1983 Job No. - J-177 Approved - HWG Checked - HBJ Scale - 1" = 20' Sheet 13 of 22.			

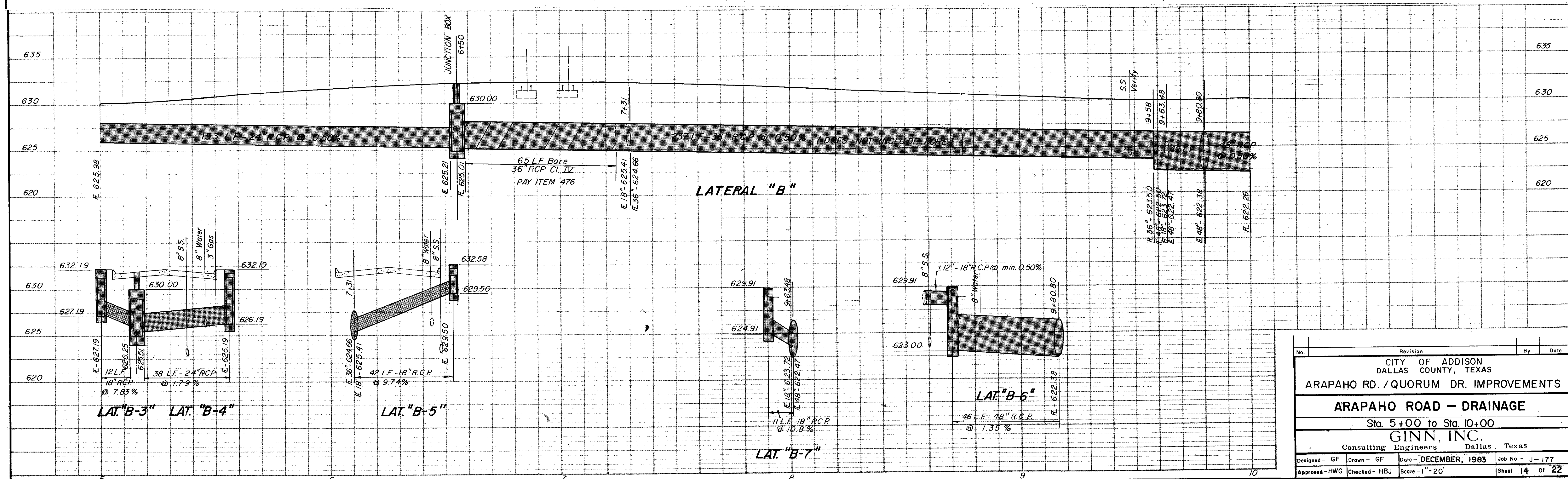
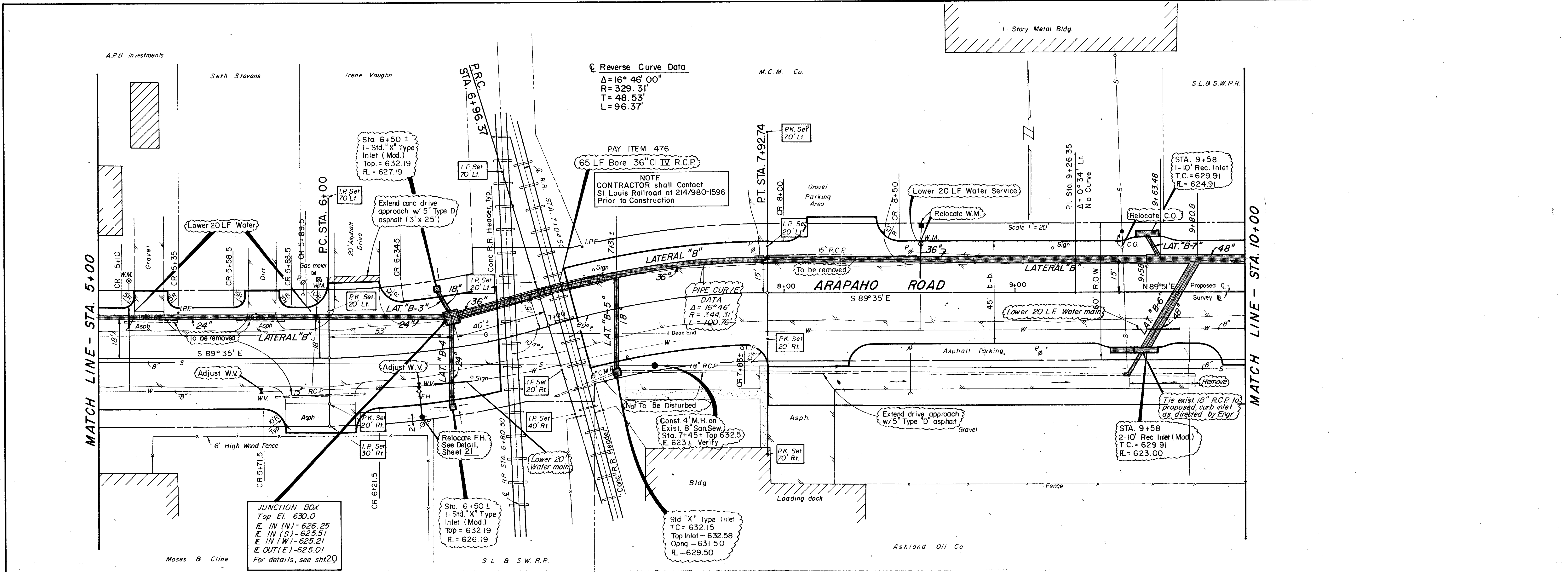


NOTE - CONTRACTOR shall Expose and Verify Elev. Prior to Adjust of Exist. Utilities.

B.M. "□" On Corner of Loading Dock at Howard Green Furniture - 15289 Addison Road (Elev. 629.854)
 B.M. "□" On S.E. Corner of Concrete Walk at Front Entrance to 4805 Arapaho Rd. (Elev. 630.66)



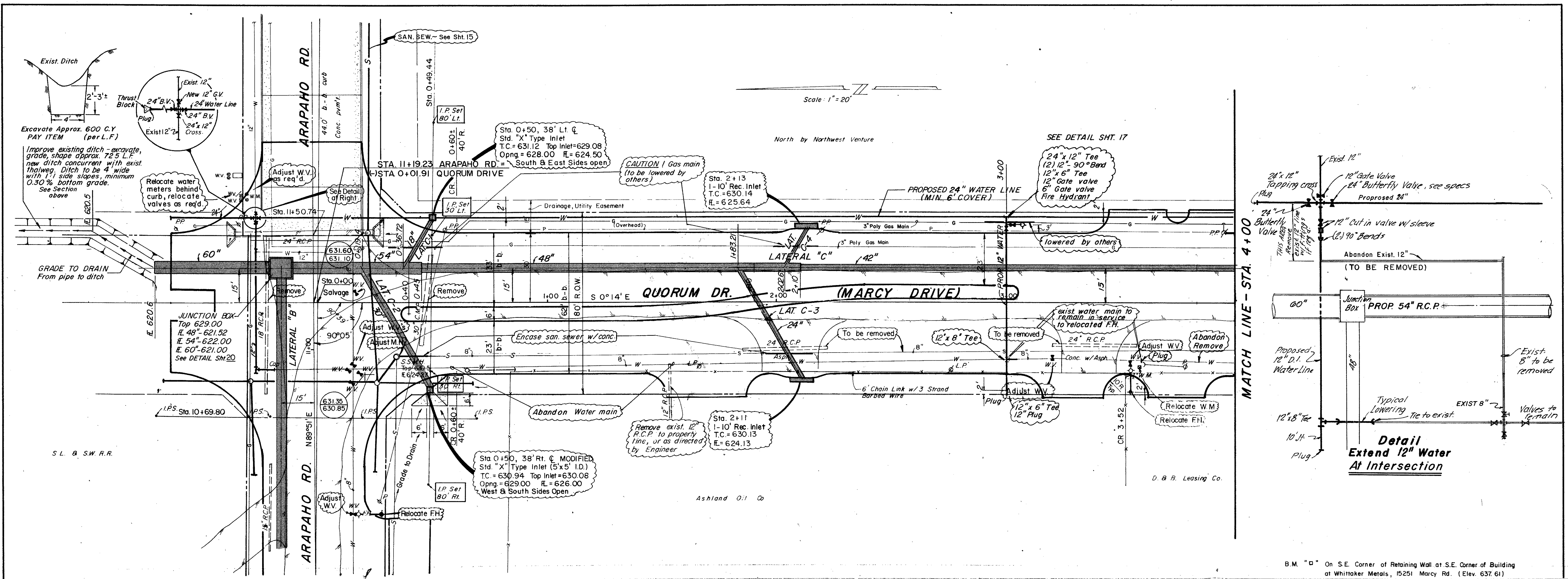
No.	Revision	By	Date
CITY OF ADDISON DALLAS COUNTY, TEXAS ARAPAHO ROAD - DRAINAGE Sta. 0+00 to Sta. 5+00 GINN, INC. Consulting Engineers Dallas, Texas			
Designed - GF	Drawn - GF	Date - DECEMBER, 1983	Job No. - J - 177
Approved - HWG	Checked - HBJ	Scale - 1" = 20'	Sheet 13 of 22.



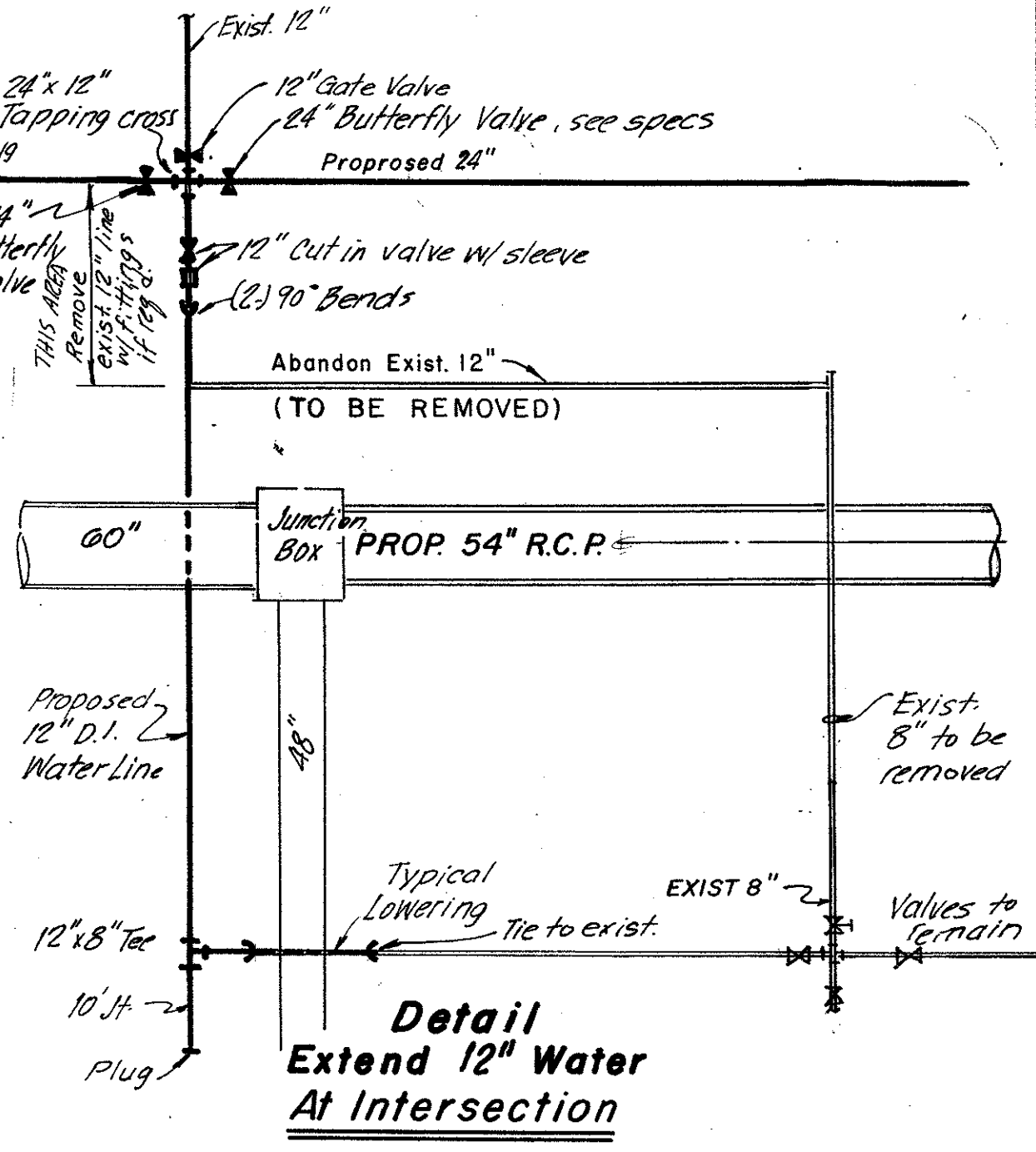
No.	Revision	By	Date

CITY OF ADDISON
DALLAS COUNTY, TEXAS
ARAPAHO RD. / QUORUM DR. IMPROVEMENTS
ARAPAHO ROAD - DRAINAGE
Sta. 5+00 to Sta. 10+00
GINN, INC.
Consulting Engineers Dallas, Texas

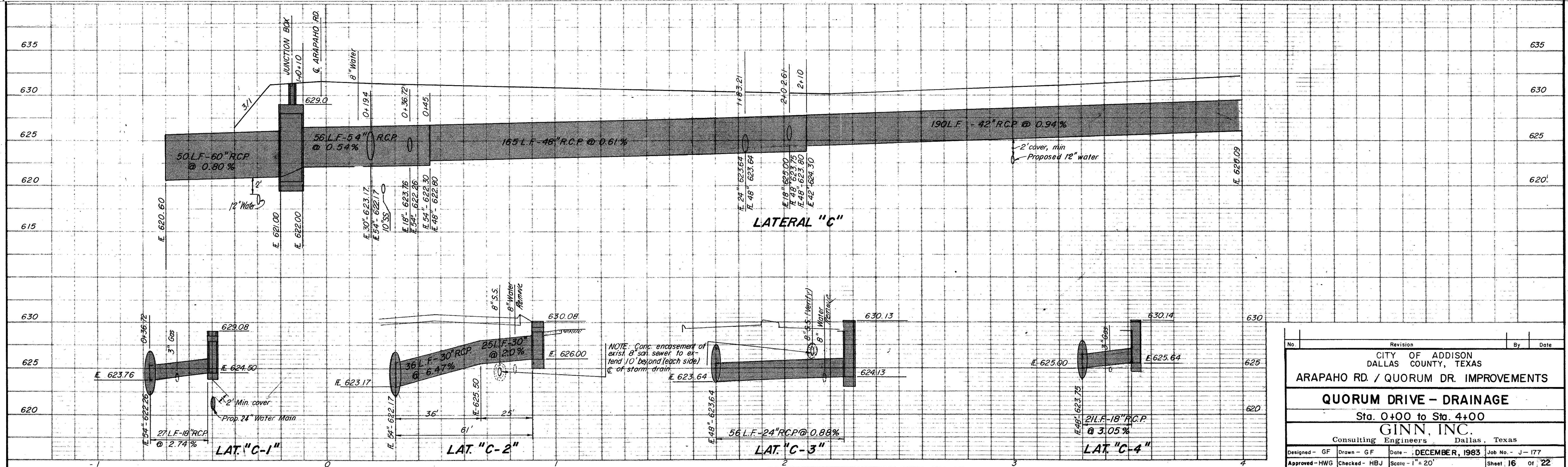
Designed - GF Drawn - GF Date - DECEMBER, 1983 Job No. - J-177
Approved - HWG Checked - HBJ Scale - 1" = 20' Sheet 14 of 22



MATCH LINE - STA. 4+00

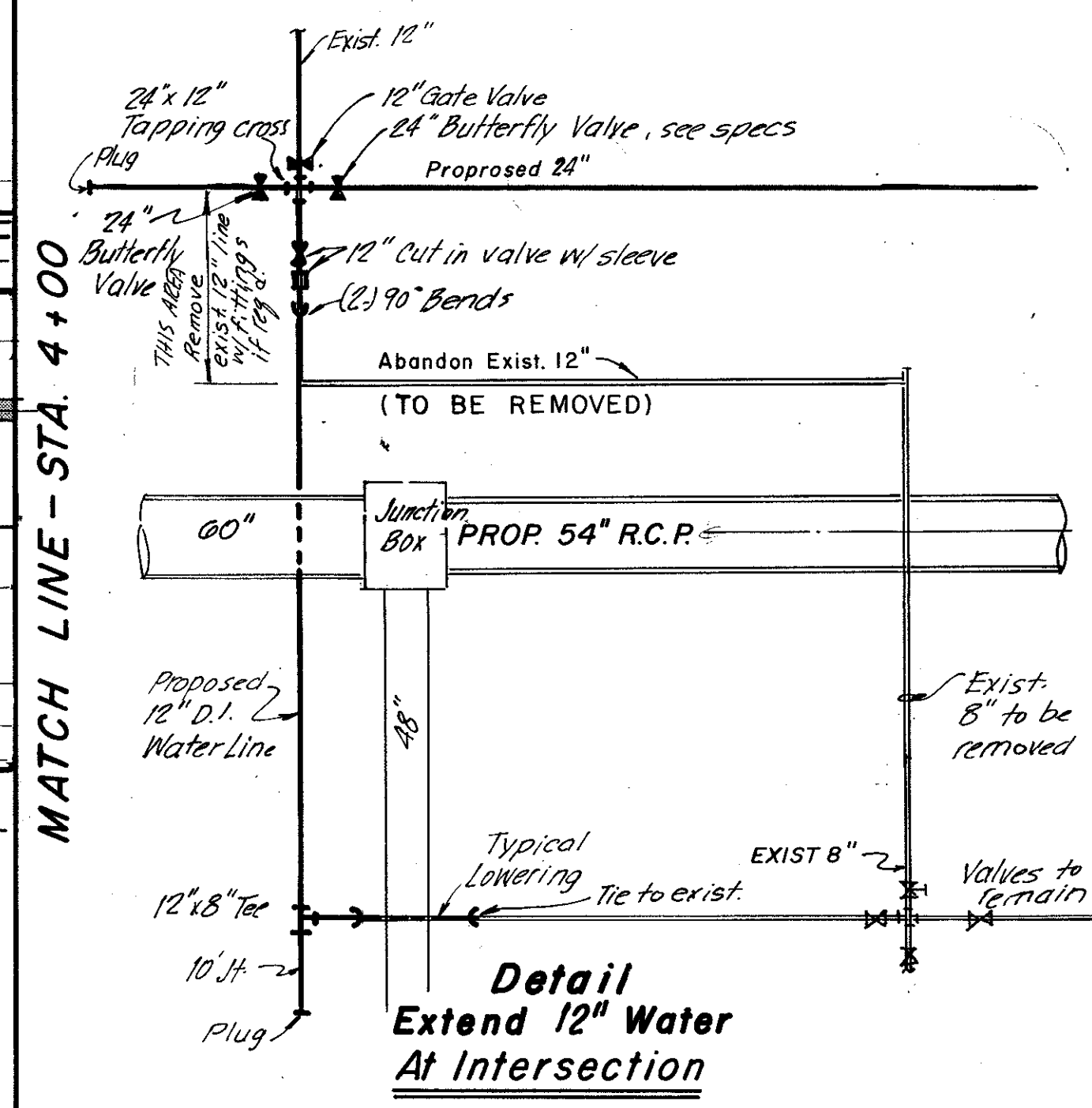
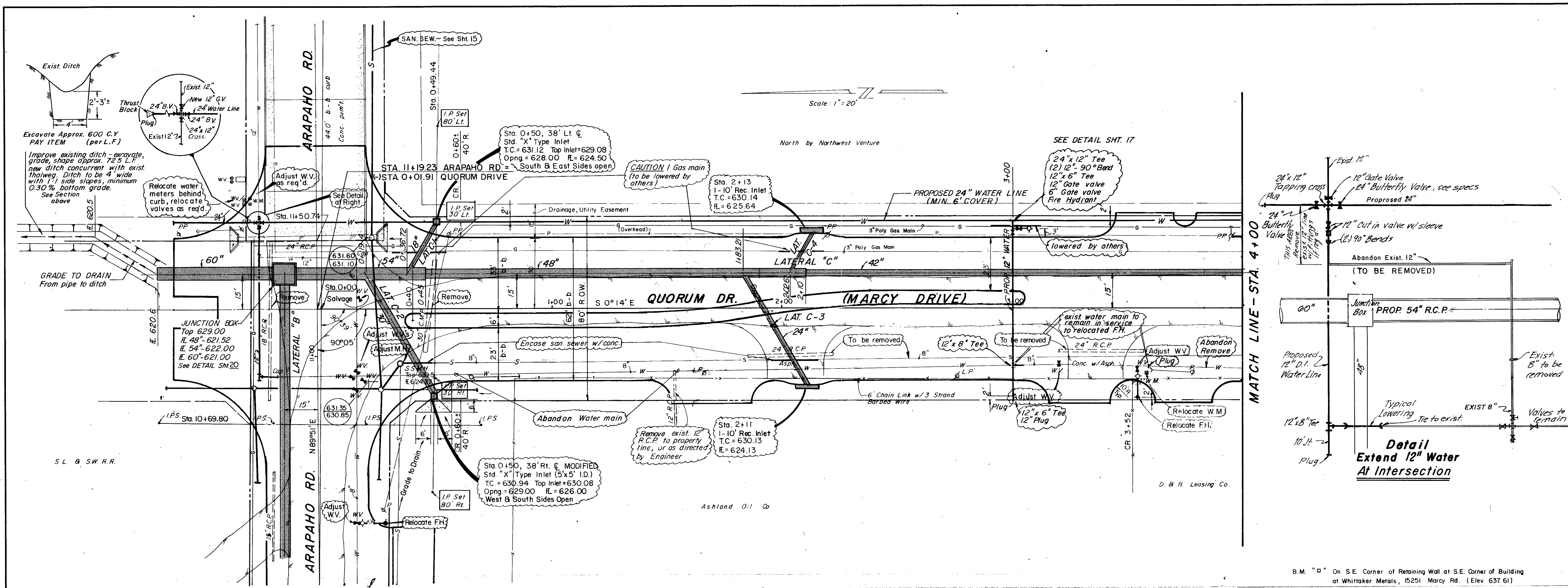


B.M. "□" On S.E. Corner of Retaining Wall at S.E. Corner of Building at Whittaker Metals, 15251 Marcy Rd. (Elev. 637.61)

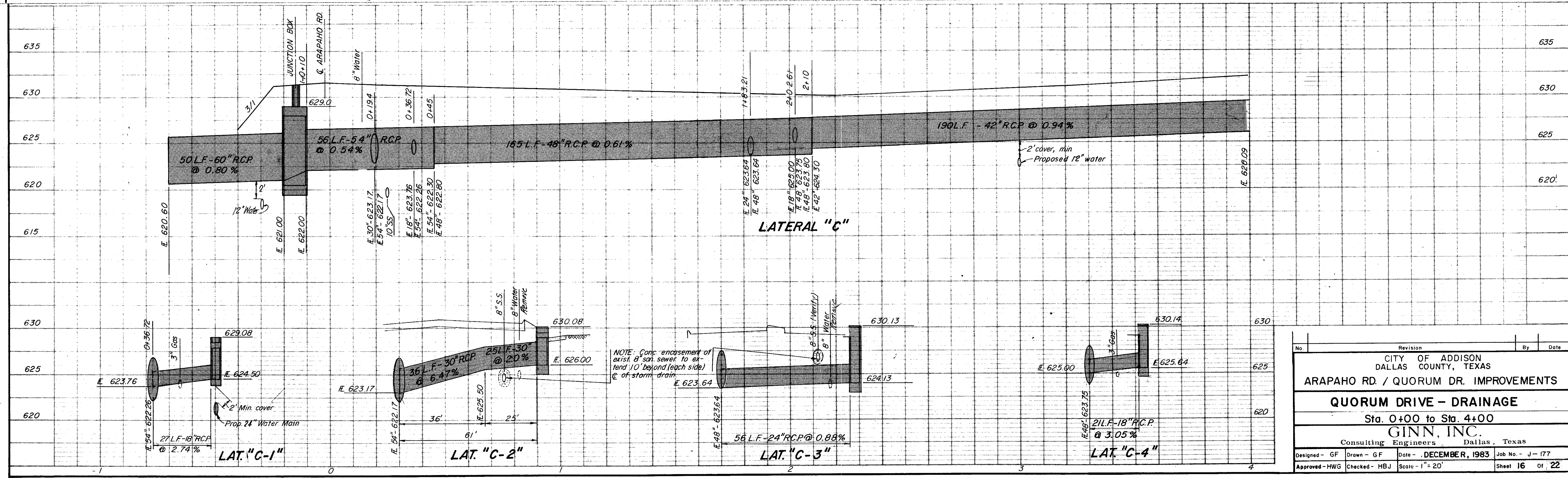


NOTE: Conc. encasement of exist. 8\"/>

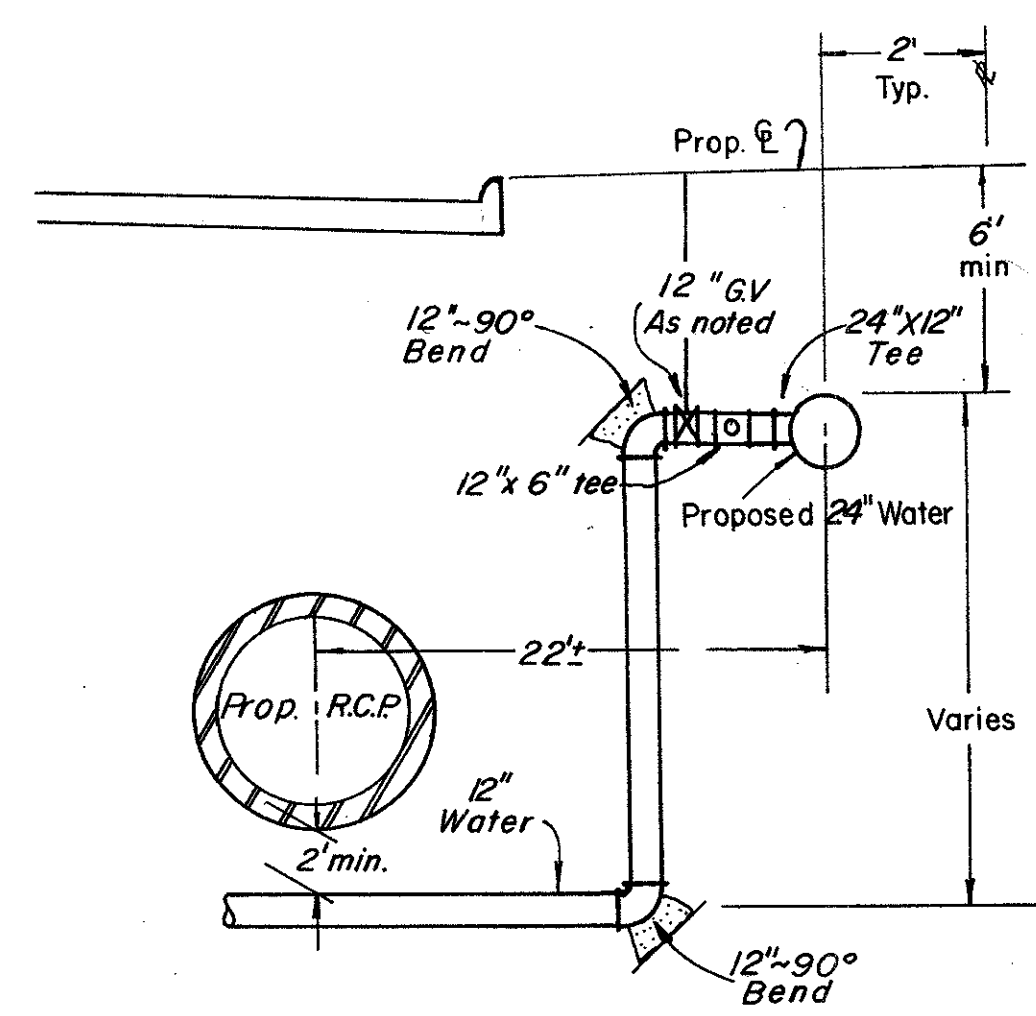
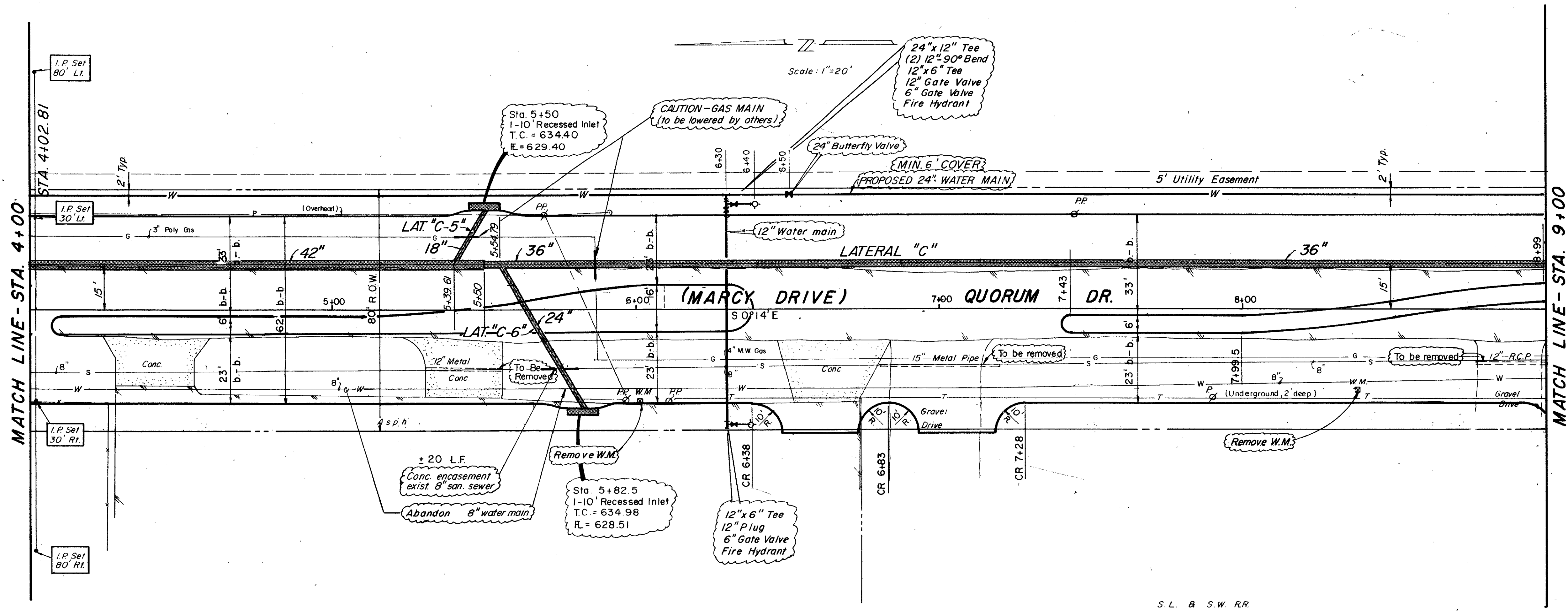
No.	Revision	By	Date
CITY OF ADDISON DALLAS COUNTY, TEXAS ARAPAHO RD. / QUORUM DR. IMPROVEMENTS QUORUM DRIVE - DRAINAGE Sta. 0+00 to Sta. 4+00 GINN, INC. Consulting Engineers Dallas, Texas			
Designed - GF	Drawn - GF	Date -	DECEMBER, 1983
Approved - HWG	Checked - HBJ	Scale - 1" = 20'	Job No. - J-177
			Sheet 16 of 22



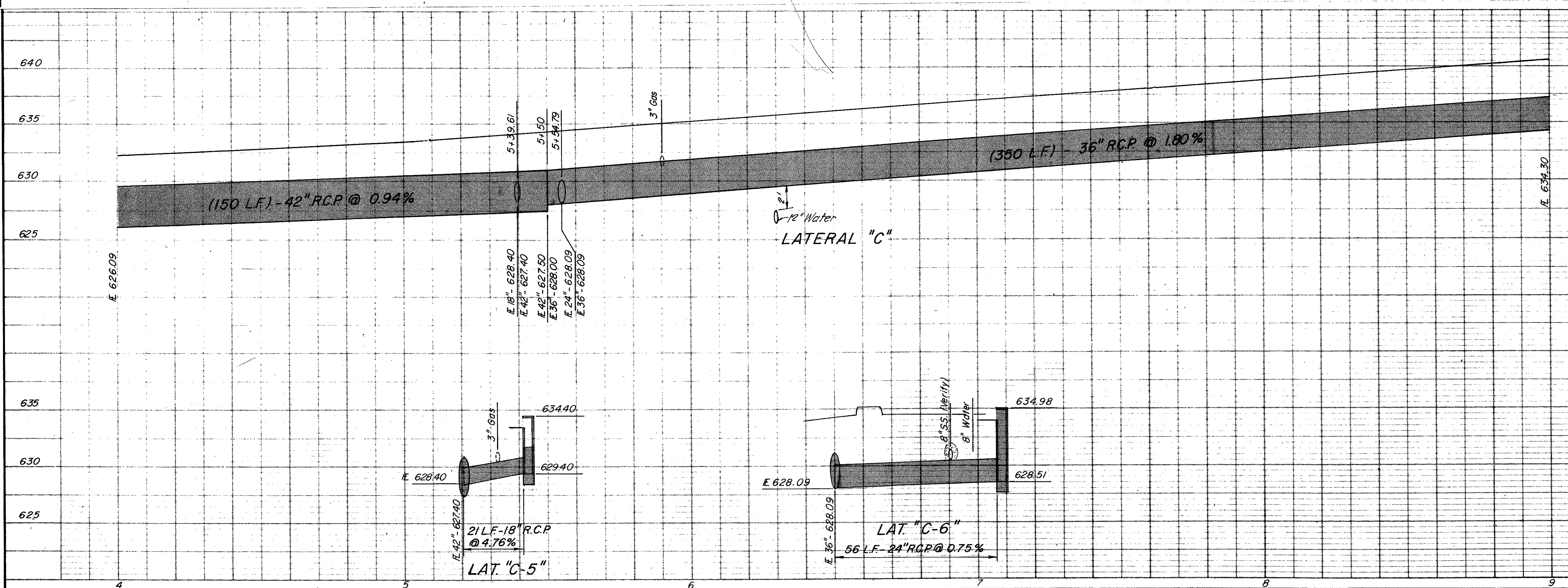
B.M. "□" On S.E. Corner of Retaining Wall at S.E. Corner of Building at Whittaker Metals, 15251 Marcy Rd. (Elev. 637.61)



No.	Revision	By	Date
CITY OF ADDISON DALLAS COUNTY, TEXAS ARAPAHO RD / QUORUM DR. IMPROVEMENTS QUORUM DRIVE - DRAINAGE Sta. 0+00 to Sta. 4+00 GINN, INC. Consulting Engineers Dallas, Texas Designed - GF Drawn - GF Date - DECEMBER, 1983 Job No. - J-177 Approved - HWG Checked - HBJ Scale - 1" = 20' Sheet 16 of 22			

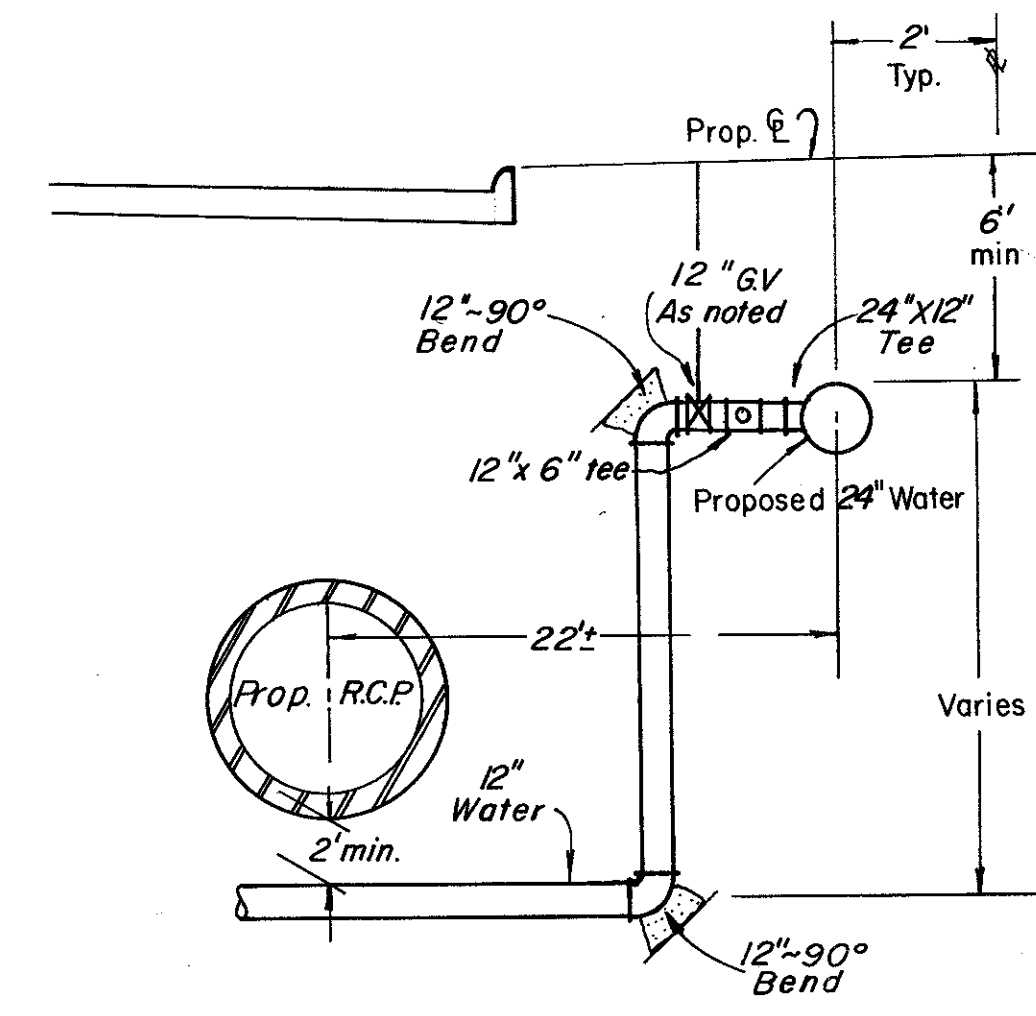
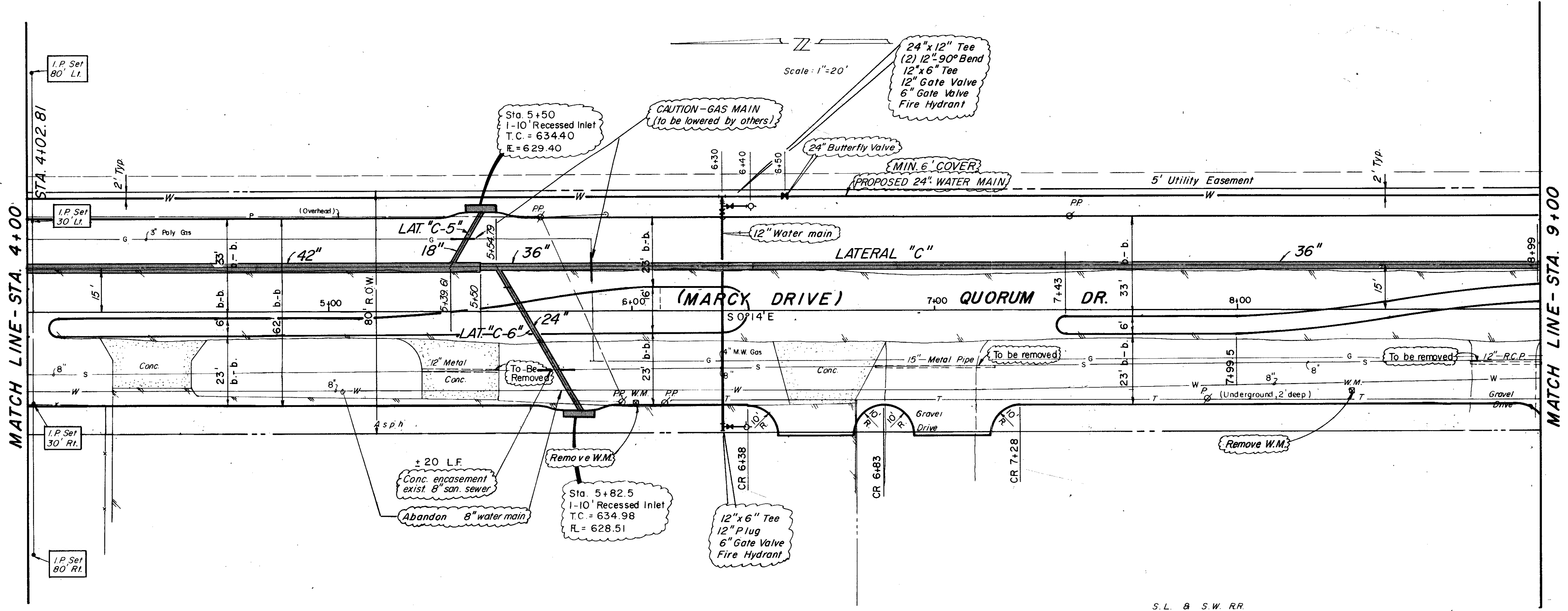


Detail
12" Water Crossing



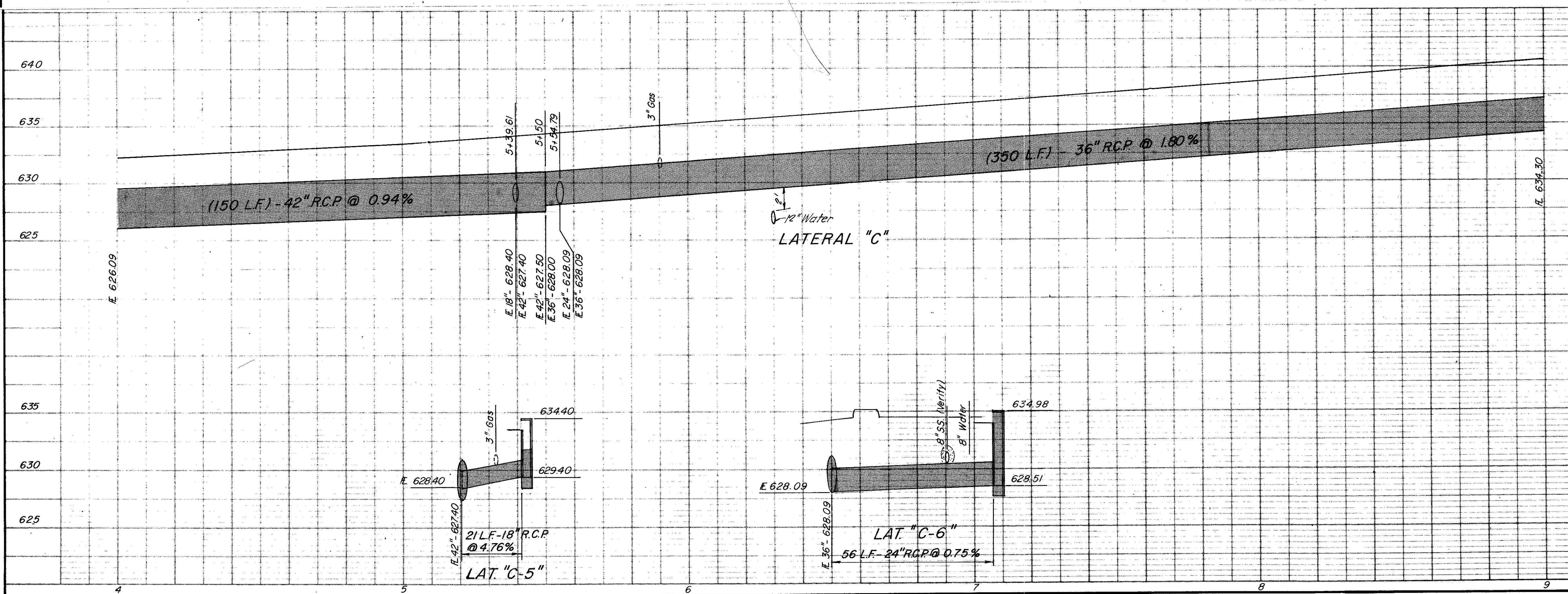
B.M. "□" On S.E. Corner of Retaining Wall at S.E. Corner of Building of Whittaker Metals. 15251 Marcy Rd. (Elev. 637.61)

No.	Revision	By	Date
CITY OF ADDISON DALLAS COUNTY, TEXAS ARAPAHO RD / QUORUM DR. IMPROVEMENTS QUORUM DRIVE - DRAINAGE Sta. 4+00 to Sta. 9+00 GINN, INC. Consulting Engineers Dallas, Texas			
Designed - GF	Drawn - GF	Date - DECEMBER, 1983	Job No. - J-177
Approved - HWG	Checked - HBJ	Scale - 1" = 20'	Sheet 17 of 22



Detail
12" Water Crossing

B.M. "□" On S.E. Corner of Retaining Wall at S.E. Corner of Building of Whittaker Metals. 15251 Marcy Rd. (Elev. 637.61)



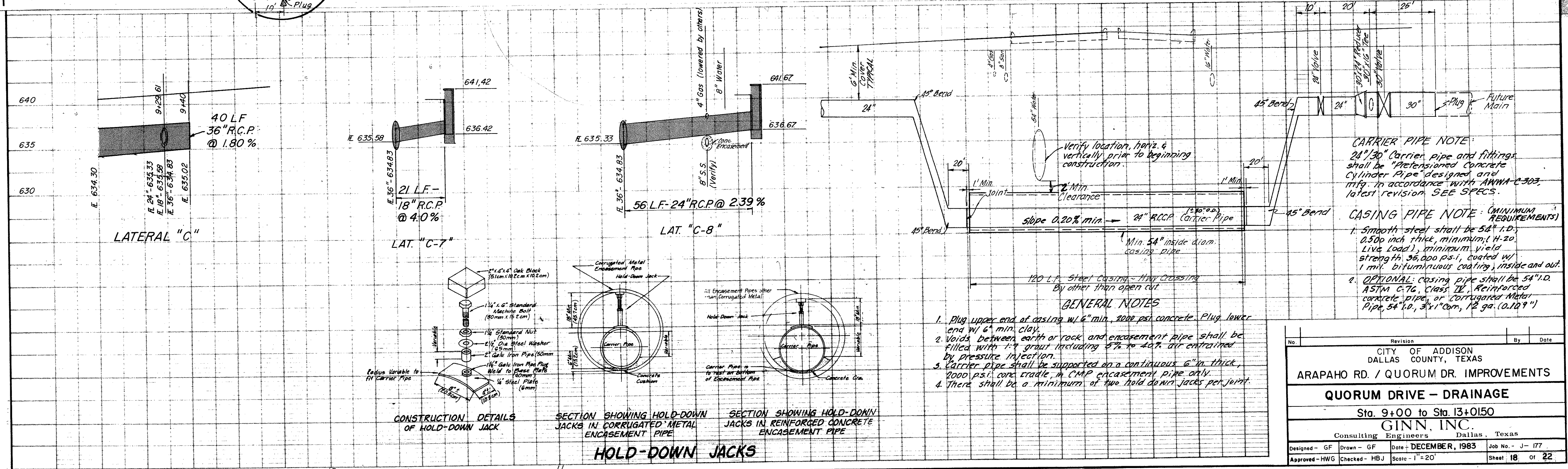
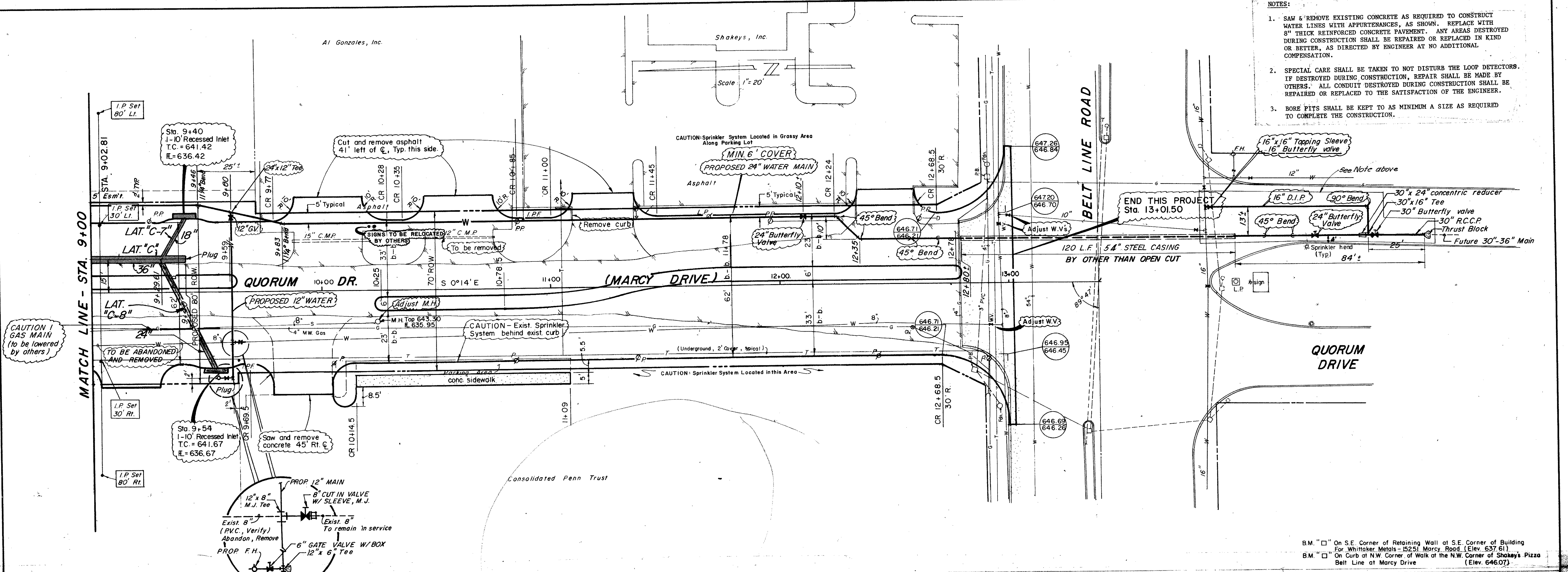
No.	Revision	By	Date
CITY OF ADDISON DALLAS COUNTY, TEXAS ARAPAHO RD. / QUORUM DR. IMPROVEMENTS QUORUM DRIVE - DRAINAGE Sta. 4+00 to Sta. 9+00 GINN, INC. Consulting Engineers Dallas, Texas			
Designed - GF	Drawn - GF	Date - DECEMBER, 1983	Job No. - J-177
Approved - HWG	Checked - HBJ	Scale - 1" = 20'	Sheet 17 of 22

Al Gonzales, Inc.

Shakeys, Inc.

Scale 1" = 20'

- NOTES:
1. SAW & REMOVE EXISTING CONCRETE AS REQUIRED TO CONSTRUCT WATER LINES WITH APPURTENANCES, AS SHOWN. REPLACE WITH 8" THICK REINFORCED CONCRETE PAVEMENT. ANY AREAS DESTROYED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED IN KIND OR BETTER, AS DIRECTED BY ENGINEER AT NO ADDITIONAL COMPENSATION.
 2. SPECIAL CARE SHALL BE TAKEN TO NOT DISTURB THE LOOP DETECTORS. IF DESTROYED DURING CONSTRUCTION, REPAIR SHALL BE MADE BY OTHERS. ALL CONDUIT DESTROYED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
 3. BORE PITS SHALL BE KEPT TO AS MINIMUM A SIZE AS REQUIRED TO COMPLETE THE CONSTRUCTION.



B.M. "□" On S.E. Corner of Retaining Wall at S.E. Corner of Building For Whittaker Metals - 15251 Marcy Road. (Elev. 637.61)
 B.M. "□" On Curb at N.W. Corner of Walk at the N.W. Corner of Shakeys's Pizza Belt Line at Marcy Drive (Elev. 646.07)

CARRIER PIPE NOTE:
 24" 30" Carrier pipe and fittings shall be "Prestressed Concrete Cylinder Pipe" designed and mfg. in accordance with ASTM C-303, latest revision. SEE SPECS.

CASING PIPE NOTE: (MINIMUM REQUIREMENTS)
 1. Smooth steel shall be 54" I.D. 0.500 inch thick, minimum (H-20 Live Load), minimum yield strength 36,000 psi, coated w/ 1 mil. bituminous coating, inside and out.
 2. OPTIONAL: casing pipe shall be 54" I.D. ASTM C-76, Class II, Reinforced concrete pipe, or Corrugated Metal Pipe, 54" I.D., 3/4" corr., 12 ga. (0.1019")

- GENERAL NOTES**
1. Plug upper end of casing w/ 6" min. 3000 psi concrete. Plug lower end w/ 6" min. clay.
 2. Voids between earth or rock and encasement pipe shall be filled with 1:7 grout including 5% to 10% air entrained by pressure injection.
 3. Carrier pipe shall be supported on a continuous 6" thick, 2000 psi conc. cradle in CMP encasement pipe only.
 4. There shall be a minimum of two hold down jacks per joint.

No.	Revision	By	Date
CITY OF ADDISON DALLAS COUNTY, TEXAS			
ARAPAHO RD. / QUORUM DR. IMPROVEMENTS			
QUORUM DRIVE - DRAINAGE			
Sta. 9+00 to Sta. 13+01.50			
GINN, INC.			
Consulting Engineers Dallas, Texas			
Designed - GF	Drawn - GF	Date - DECEMBER, 1983	Job No. - J-177
Approved - HWG	Checked - HBJ	Scale - 1" = 20'	Sheet 18 of 22

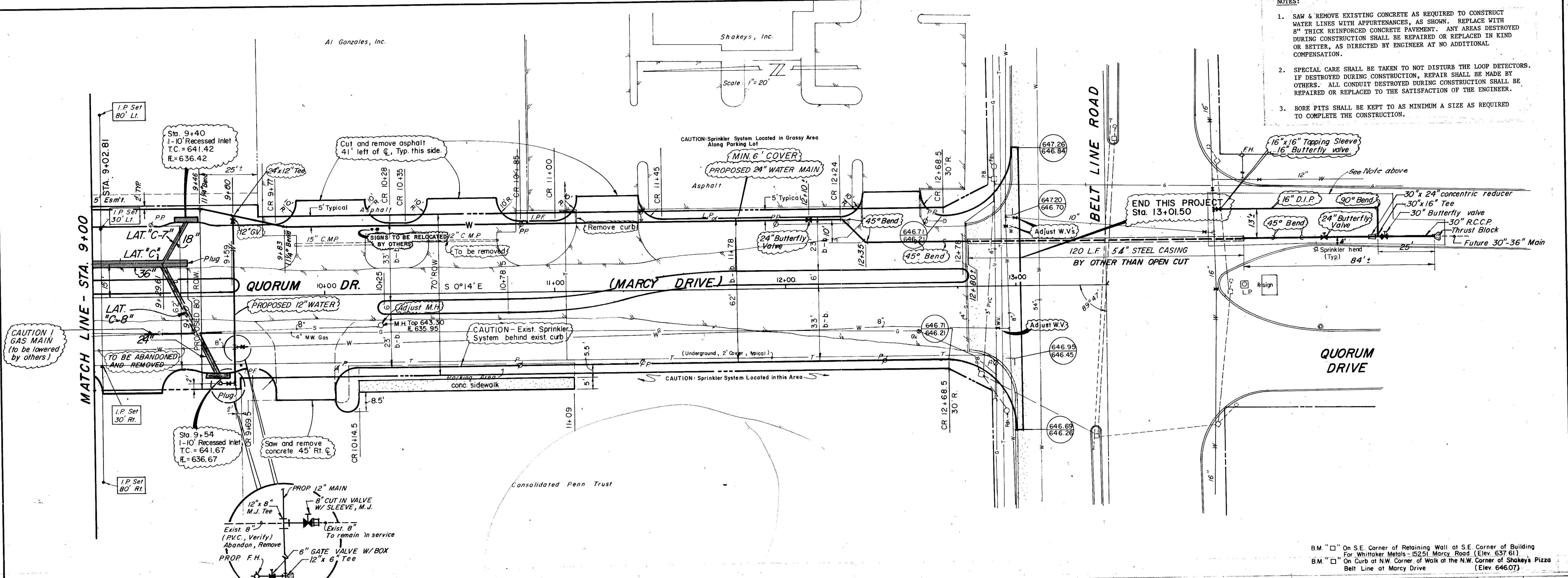
Al Gonzales, Inc.

Shakeys, Inc.

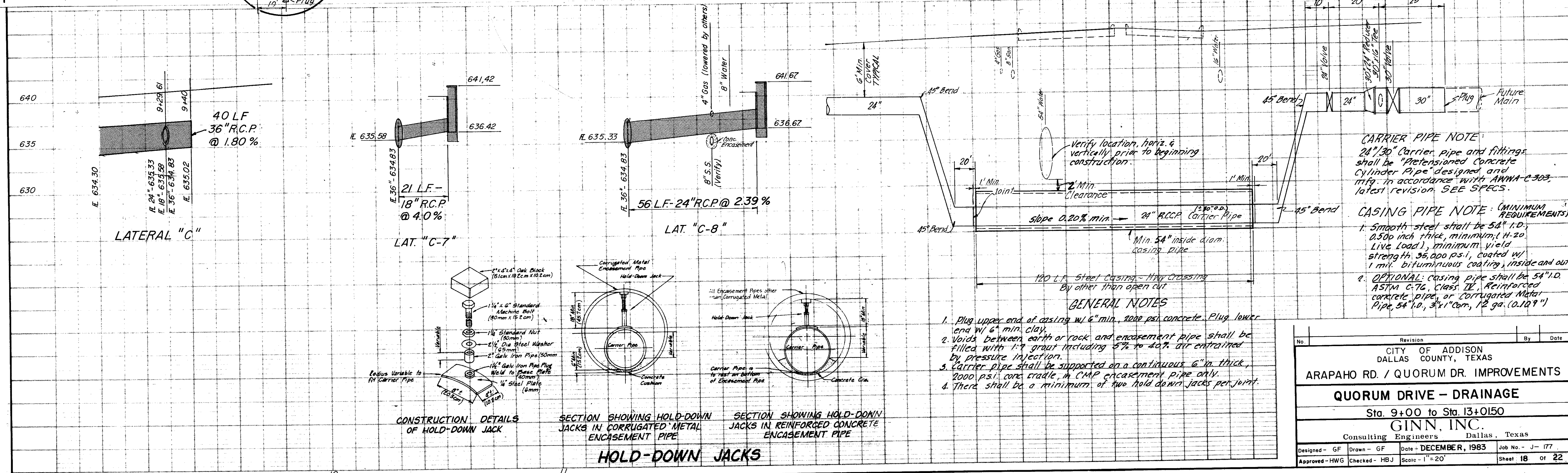
Scale 1" = 20'

NOTES:

1. SAW & REMOVE EXISTING CONCRETE AS REQUIRED TO CONSTRUCT WATER LINES WITH APPURTENANCES, AS SHOWN. REPLACE WITH 8" THICK REINFORCED CONCRETE PAVEMENT. ANY AREAS DESTROYED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED IN KIND OR BETTER, AS DIRECTED BY ENGINEER AT NO ADDITIONAL COMPENSATION.
2. SPECIAL CARE SHALL BE TAKEN TO NOT DISTURB THE LOOP DETECTORS. IF DESTROYED DURING CONSTRUCTION, REPAIR SHALL BE MADE BY OTHERS. ALL CONDUIT DESTROYED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
3. BORE PITS SHALL BE KEPT TO AS MINIMUM A SIZE AS REQUIRED TO COMPLETE THE CONSTRUCTION.



BM "□" On S.E. Corner of Retaining Wall at S.E. Corner of Building For Whitaker Metals - 5251 Marcy Road (Elev. 637.61)
 BM "□" On Curb at N.W. Corner of Walk at the N.W. Corner of Shakeys' Pizza Belt Line at Marcy Drive (Elev. 646.07)

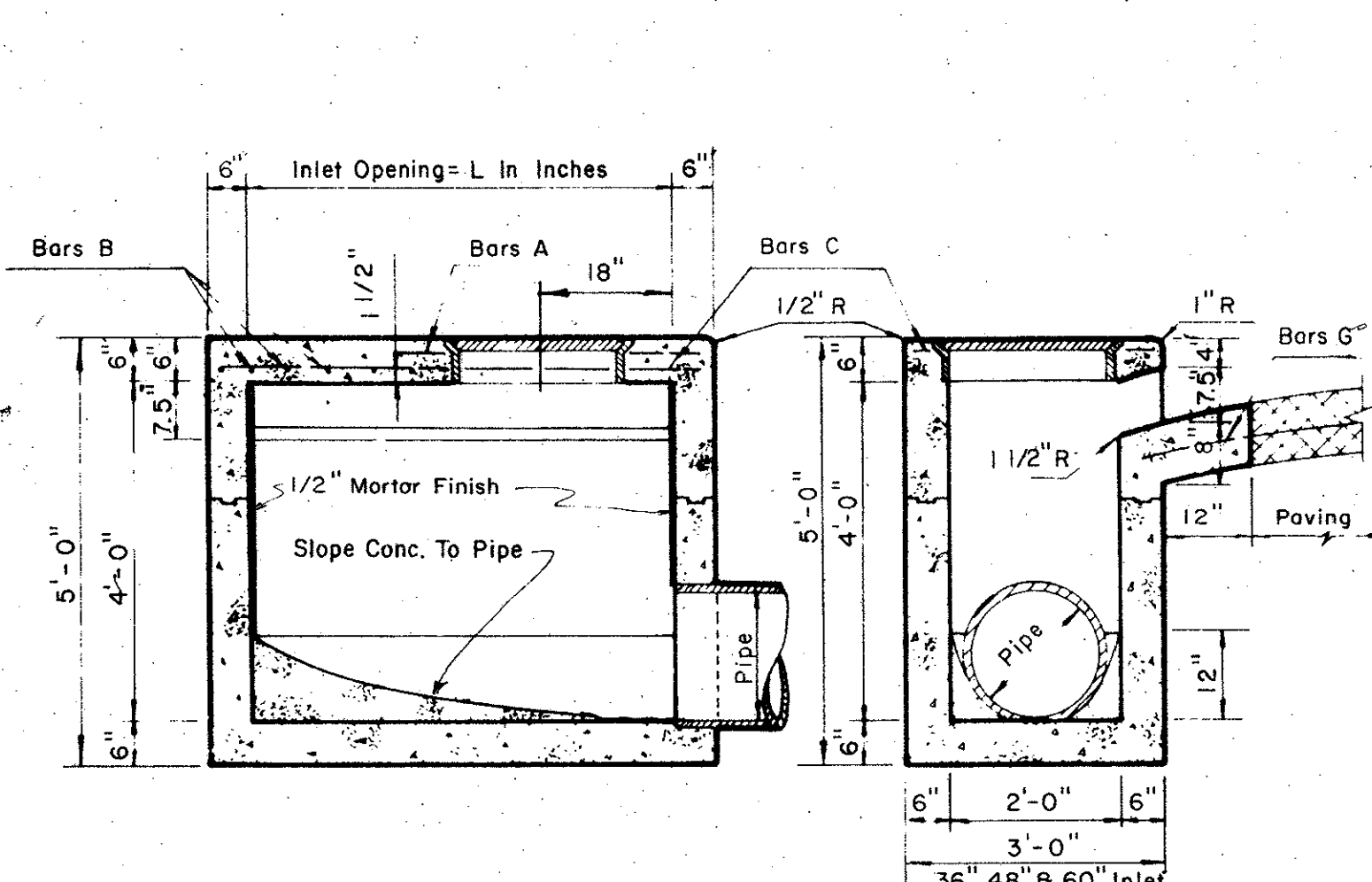


CARRIER PIPE NOTE:
 24"/30" Carrier pipe and fittings shall be "Prestressed Concrete Cylinder Pipe" designed and mfg. in accordance with ASTM C-303, latest revision. SEE SPECS.

CASING PIPE NOTE: (MINIMUM REQUIREMENTS)
 1. Smooth steel shall be 54" i.d., 0.500 inch thick, minimum 14-20 Live Load, minimum yield strength 36,000 p.s.i., coated w/ 1 mil. bituminous coating, inside and out.
 2. OPTIONAL: casing pipe shall be 54" i.d. ASTM C-76, Class II, Reinforced concrete pipe, or Corrugated Metal Pipe, 54" i.d., 3"x1" Cor., 12 ga. (0.109")

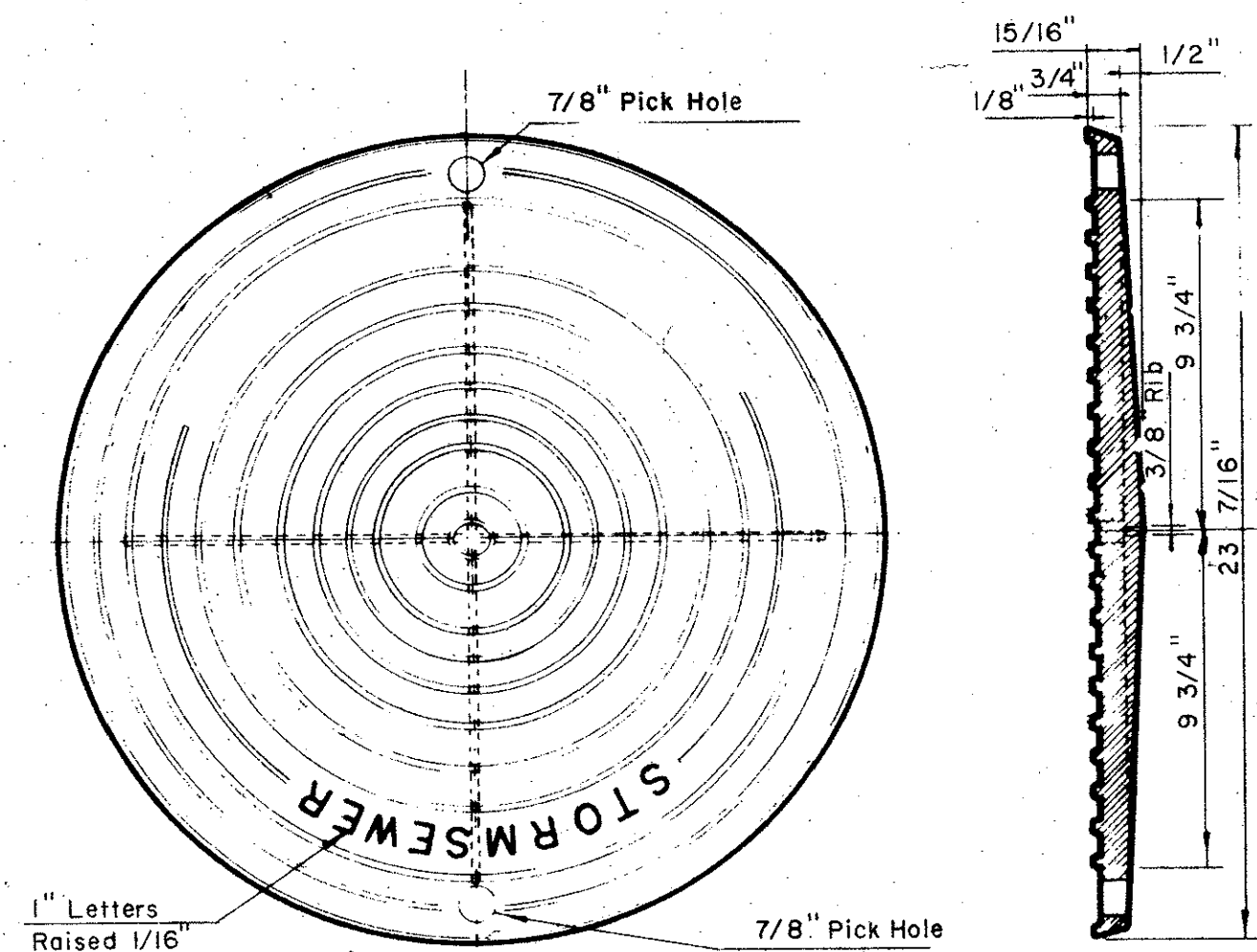
- GENERAL NOTES**
1. Plug upper end of casing w/ 6" min. 2000 psi concrete. Plug lower end w/ 6" min. clay.
 2. Voids between earth or rock and encasement pipe shall be filled with 1:7 grout including 5% to 40% air entrained by pressure injection.
 3. Carrier pipe shall be supported on a continuous 6" in thick, 2000 p.s.i. conc. cradle, in CMP encasement pipe only.
 4. There shall be a minimum of two hold down jacks per joint.

Revision	By	Date
CITY OF ADDISON DALLAS COUNTY, TEXAS		
ARAPAHO RD. / QUORUM DR. IMPROVEMENTS		
QUORUM DRIVE - DRAINAGE		
Sta. 9+00 to Sta. 13+01.50		
GINN, INC.		
Consulting Engineers Dallas, Texas		
Designed - GF	Drawn - GF	Date - DECEMBER, 1983
Approved - HWG	Checked - HBJ	Scale - 1" = 20'
		Job No. - J-177
		Sheet 18 of 22

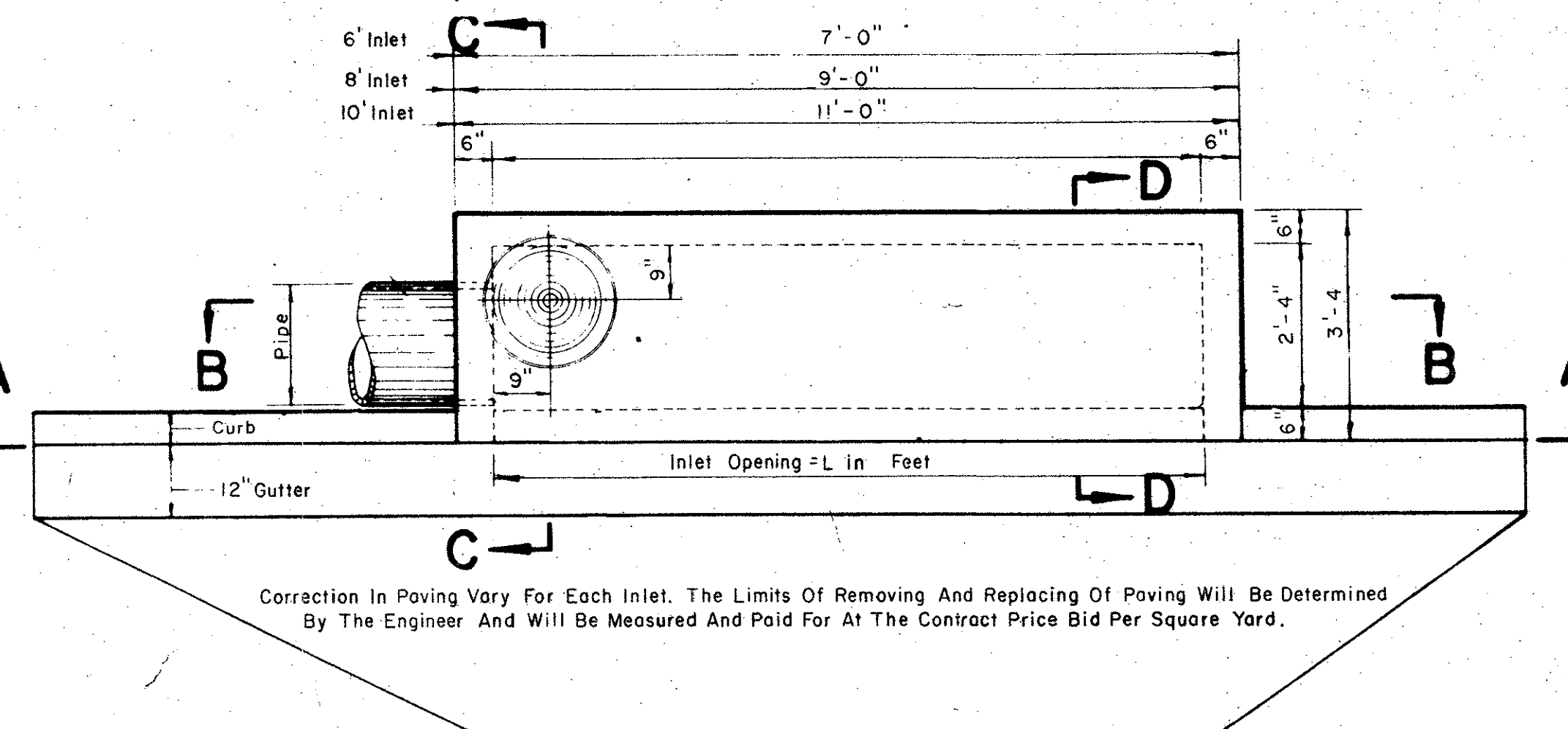


SECTION B-B

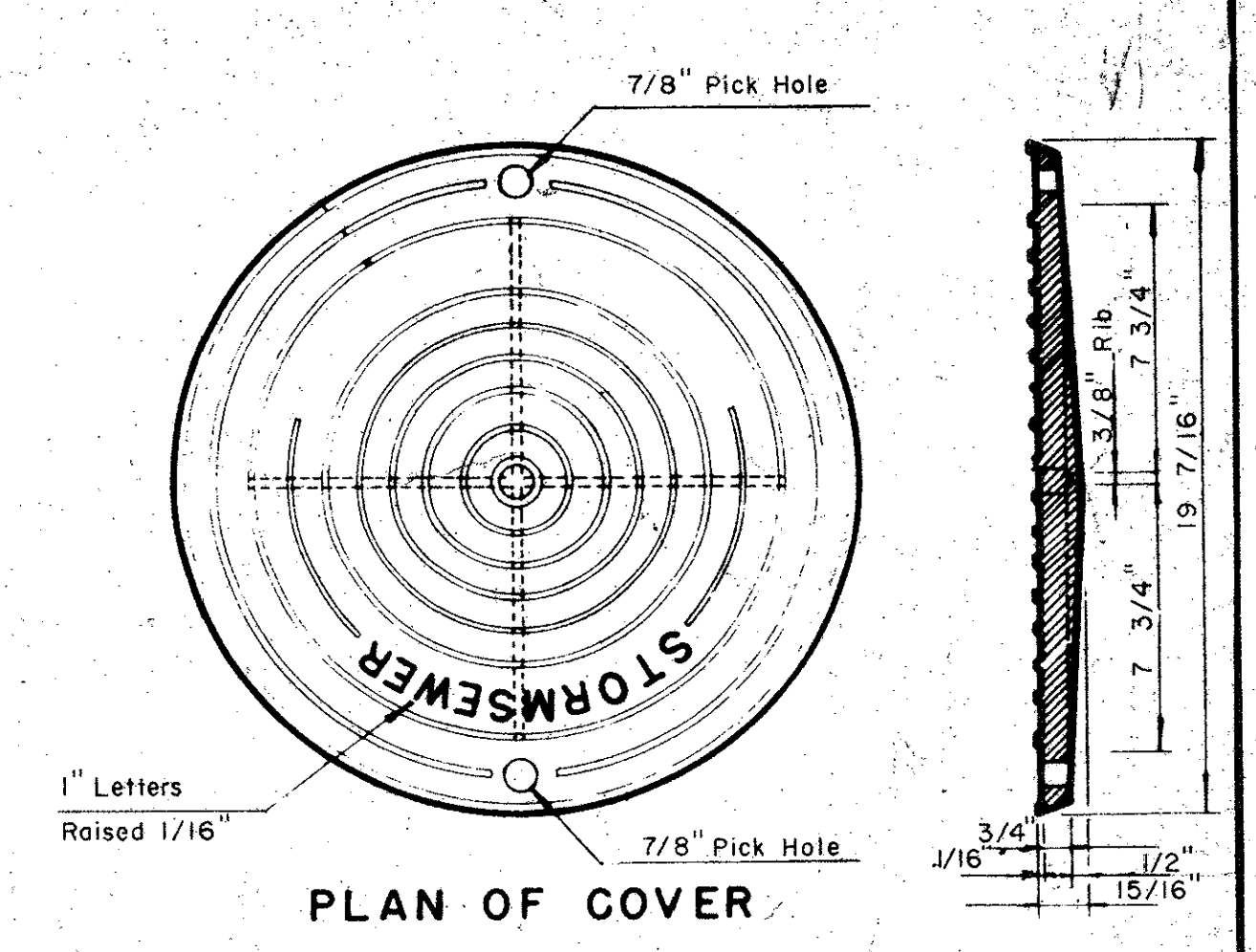
SECTION C-C



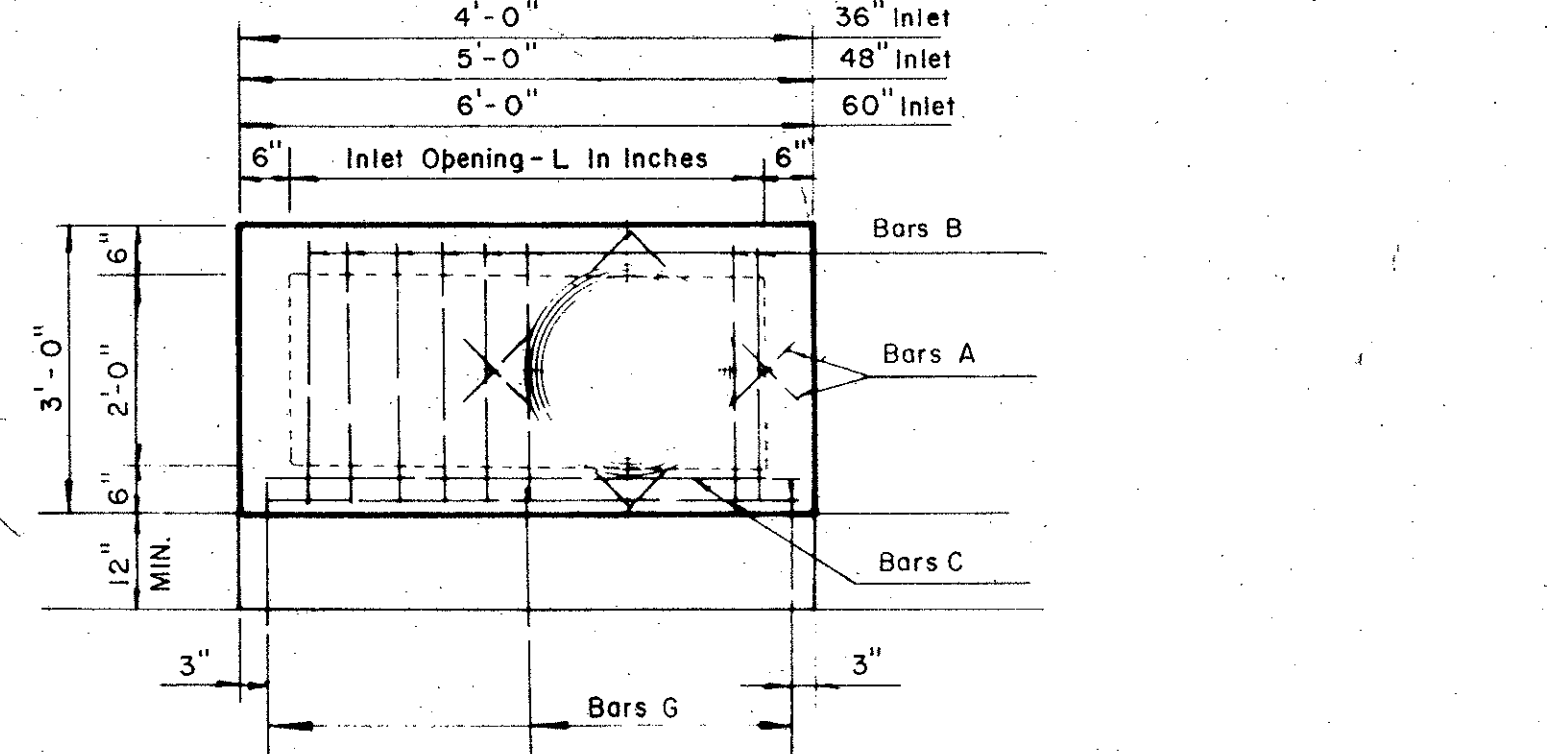
PLAN OF COVER



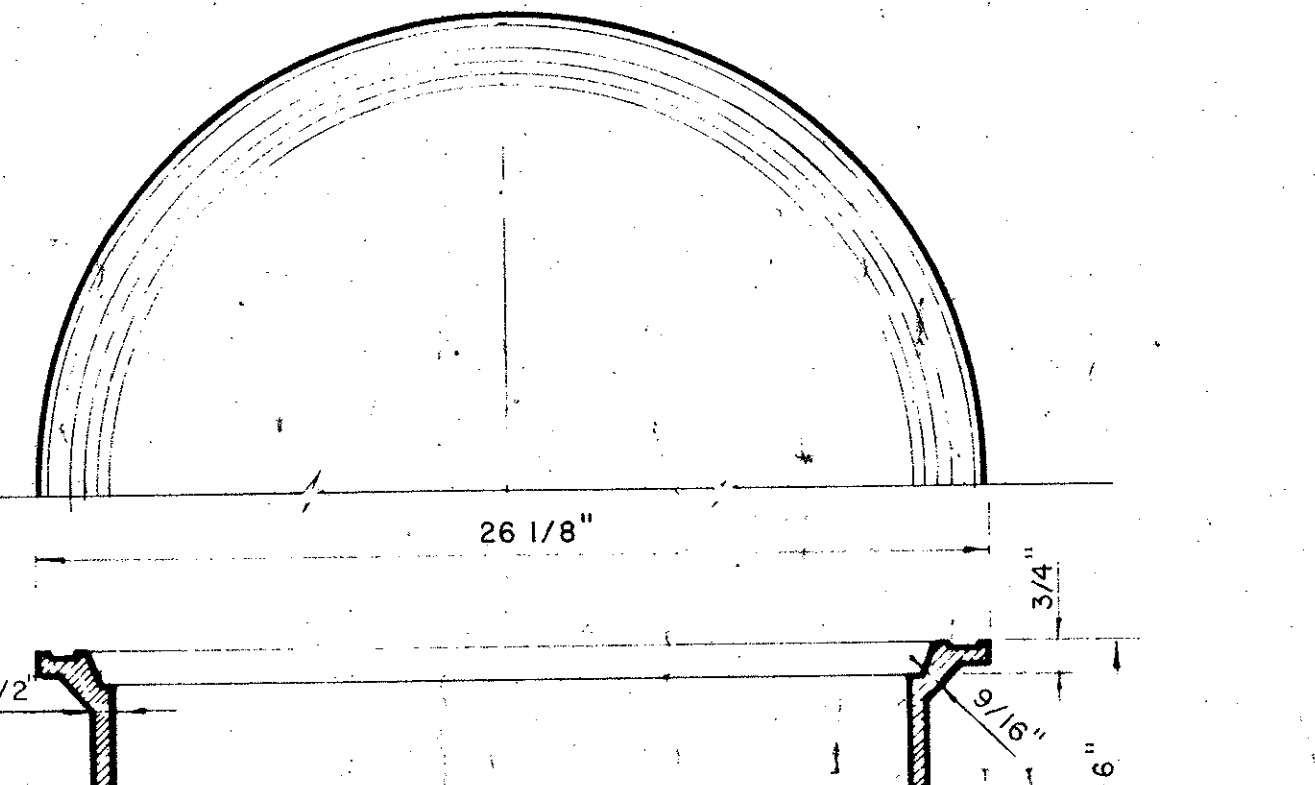
PLAN



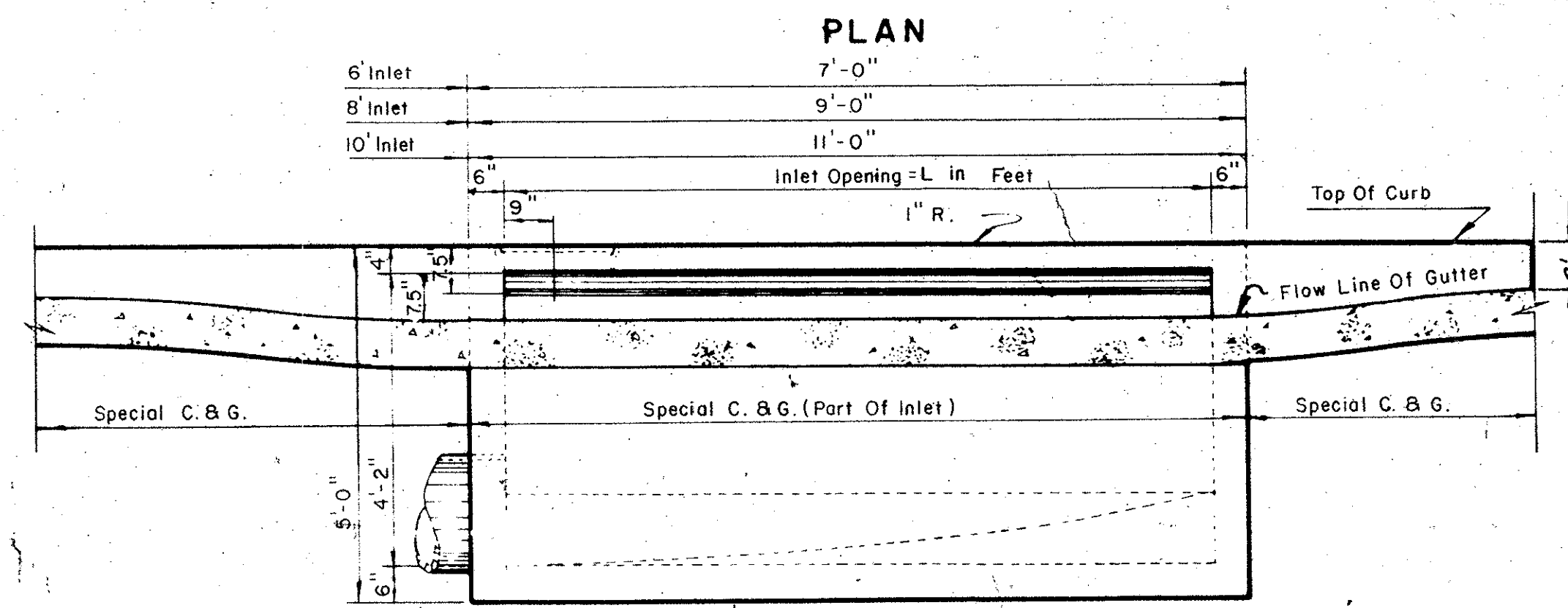
PLAN OF COVER



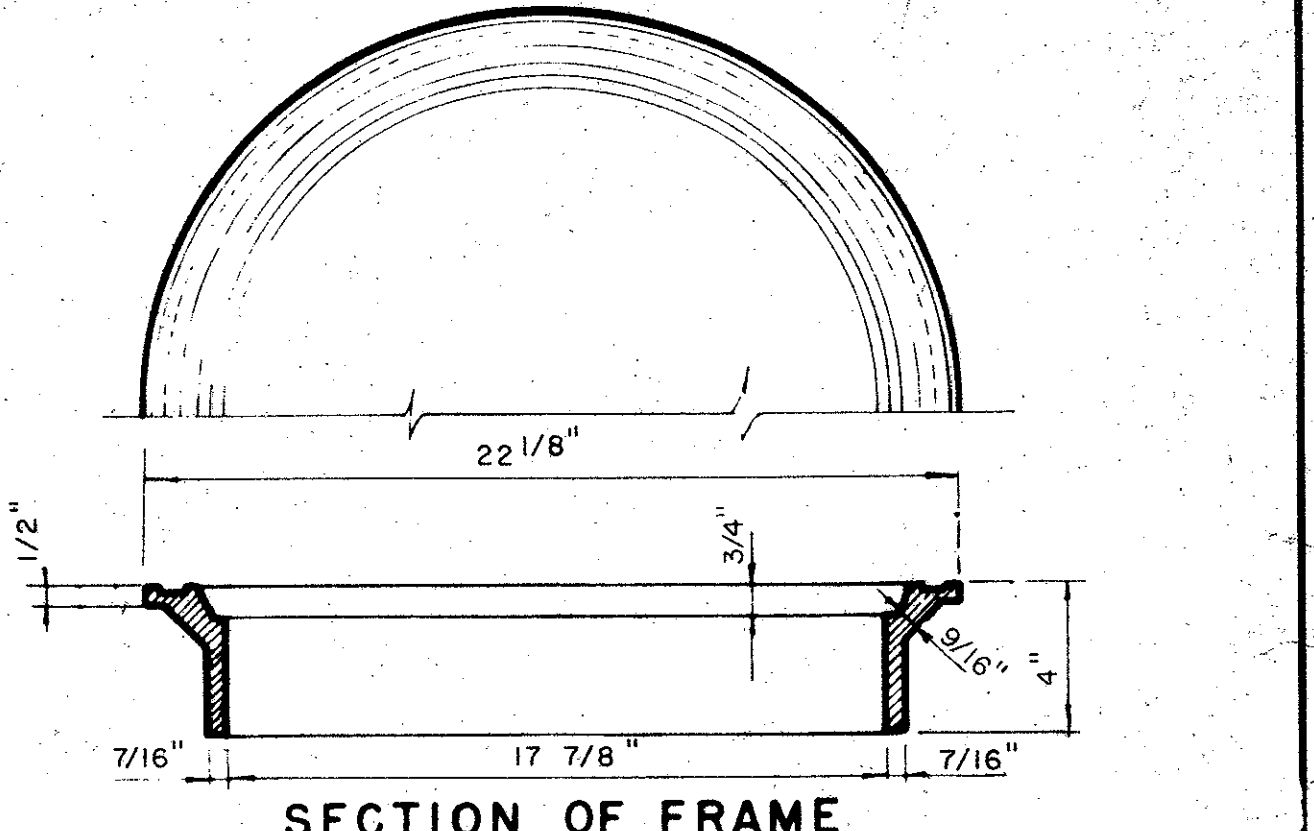
REINFORCING PLAN



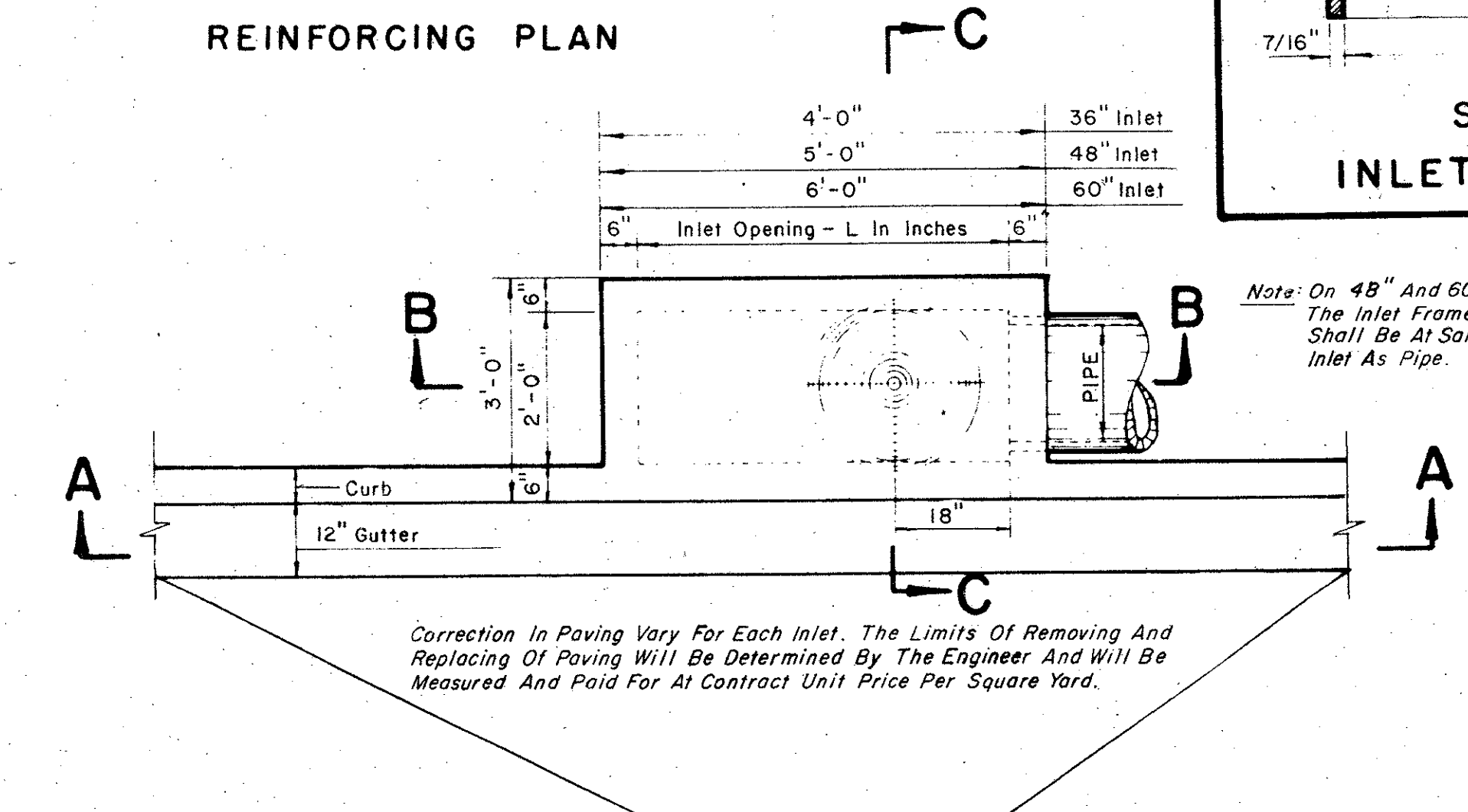
SECTION OF FRAME INLET FRAME AND COVER



SECTION A-A



SECTION OF FRAME INLET FRAME AND COVER



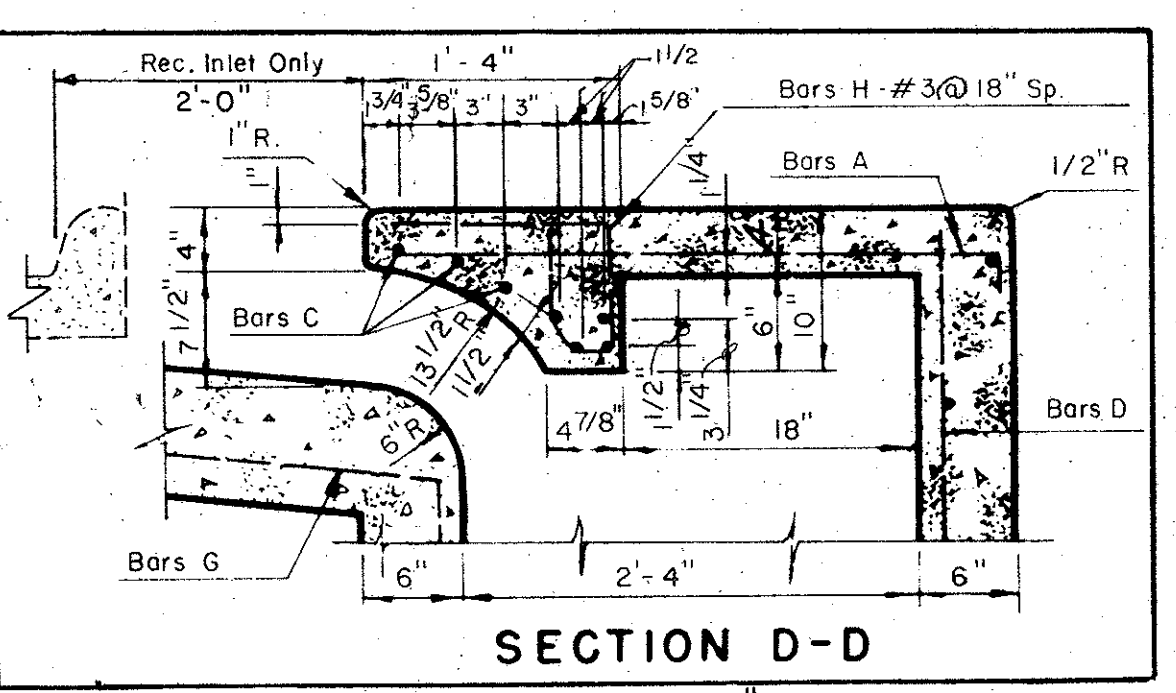
PLAN

Note: On 48" and 60" Inlets The Inlet Frame And Cover Shall Be At Same End Of Inlet As Pipe.

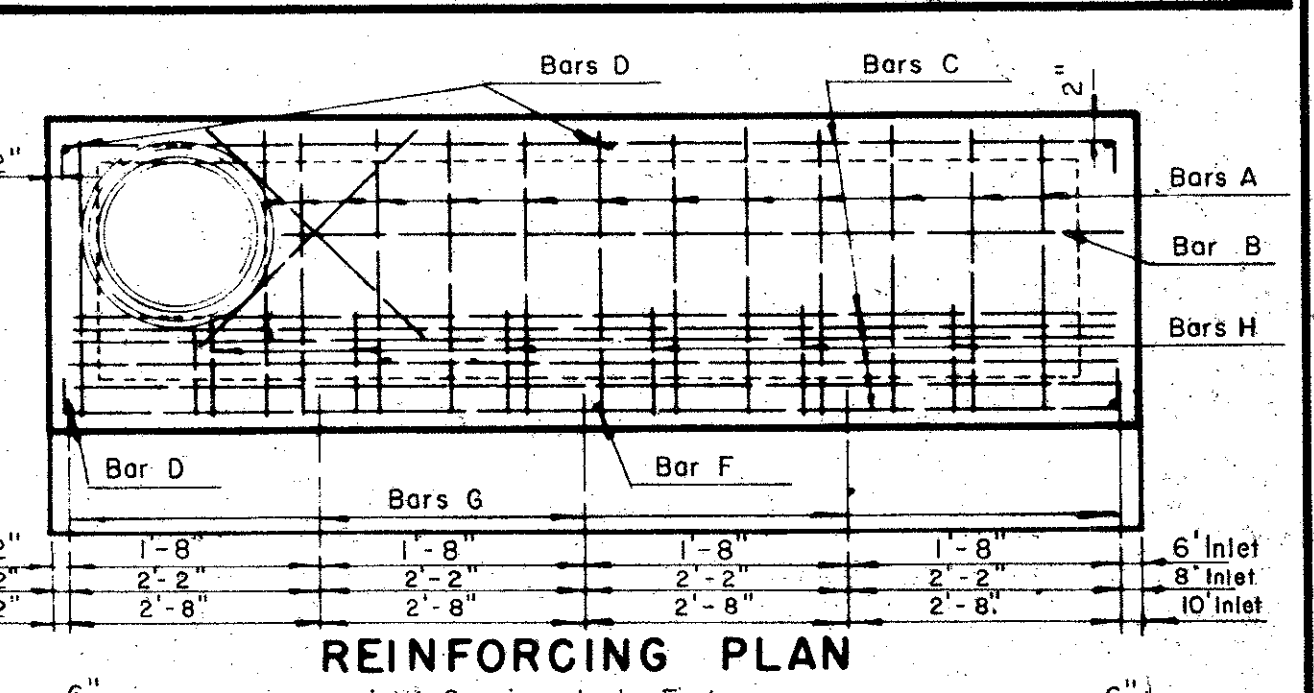
2'-6"	36" Inlet - #5-4 Required
2'-6"	48" Inlet - #5-4 Required
2'-6"	60" Inlet - #5-4 Required
2'-9"	36" Inlet - #5-4 Required
2'-9"	48" Inlet - #5-6 Required
2'-9"	60" Inlet - #5-8 Required
3'-9"	36" Inlet - #5-2 Required
4'-8"	48" Inlet - #5-2 Required
5'-9"	60" Inlet - #5-2 Required
3'-0"	36", 48" & 60" Inlets #3-3 Required
3'-0"	36" Inlet - #5-4 Required
3'-0"	48" Inlet - #5-4 Required
3'-0"	60" Inlet - #5-4 Required
3'-0"	36" Inlet - #3-10 Required
3'-0"	48" Inlet - #3-13 Required
3'-0"	60" Inlet - #3-16 Required
4'-10"	6" Inlet - #3-3 Required
4'-10"	8" Inlet - #3-4 Required
4'-10"	10" Inlet - #3-6 Required
4'-10"	6" Inlet - #4-15 Required
4'-10"	8" Inlet - #4-15 Required
4'-10"	10" Inlet - #4-15 Required
4'-8"	6', 8' & 10' Inlet #4-5 Required
3'-6"	6', 8' & 10' Inlet #4-1 Required
3'-0"	6', 8' & 10' Inlet #3-5 Required

NOTES:

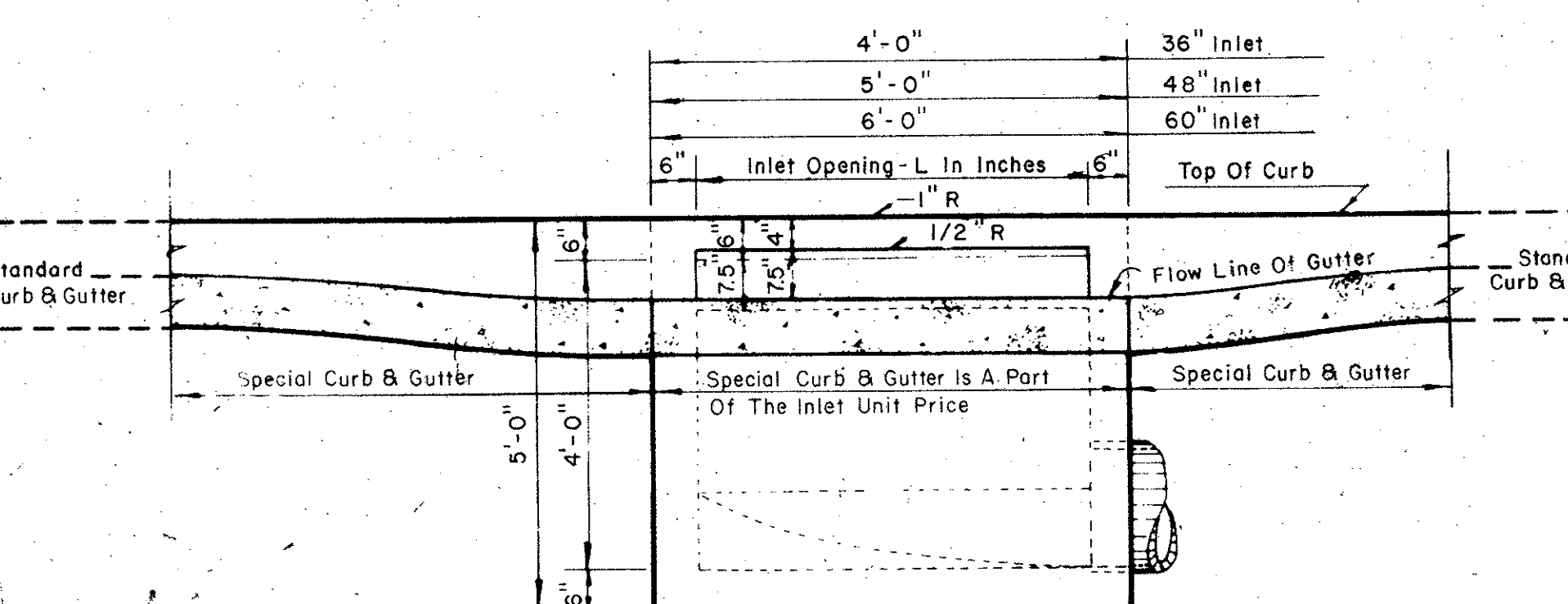
- Concrete Shall Have A Min. Compressive Of 3,000 P.S.I. At 28 Days.
- Lateral Pipe May Enter Inlet At Any Location. (Field Locats)
- The 12" Gutter In Front Of Inlet Is A Part Of The Inlet And Shall Be Built With The Inlet.
- Top Of Inlet Slope Shall Conform To Adjacent Parkway Normal 1/4" / Ft. Slope.



SECTION D-D

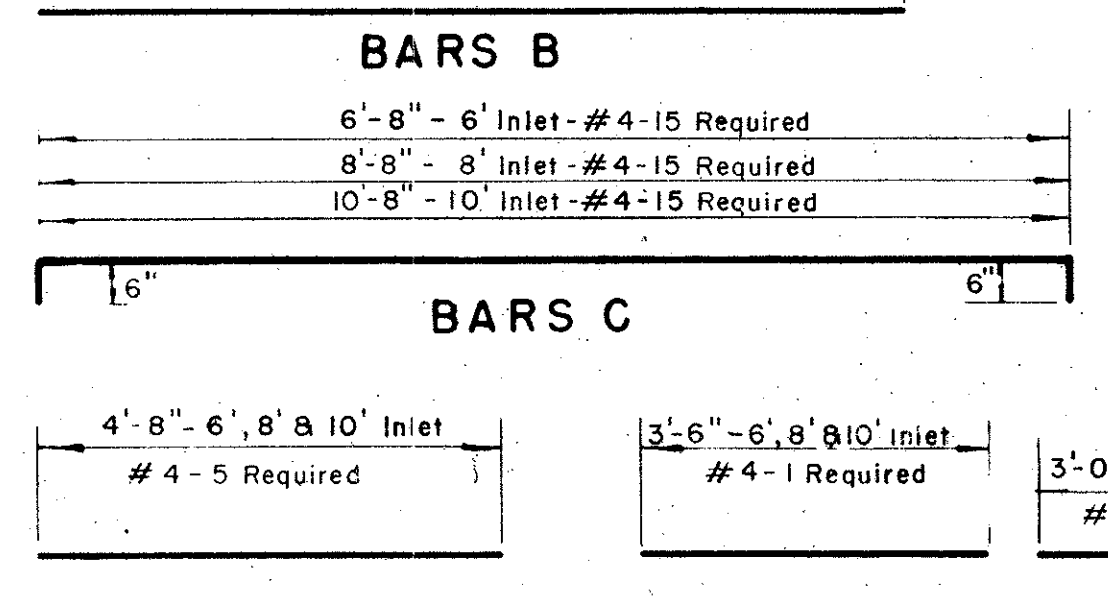


REINFORCING PLAN



SECTION A-A

36, 48 AND 60 INCH INLETS



BARS A

BARS B

BARS C

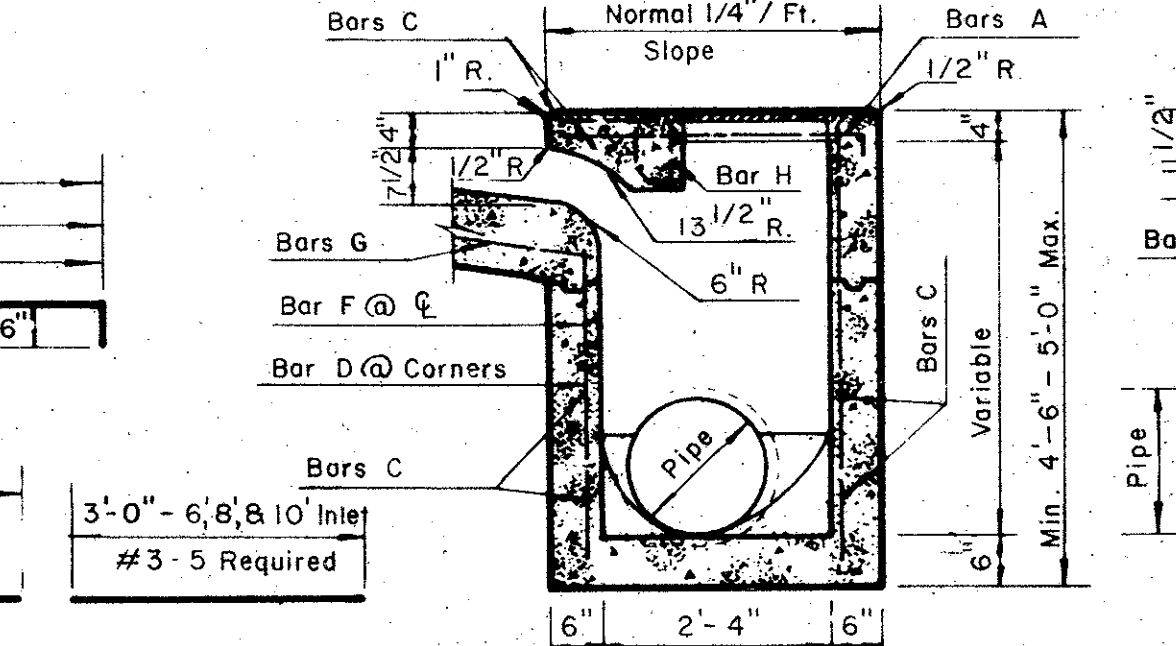
BARS D

BARS E

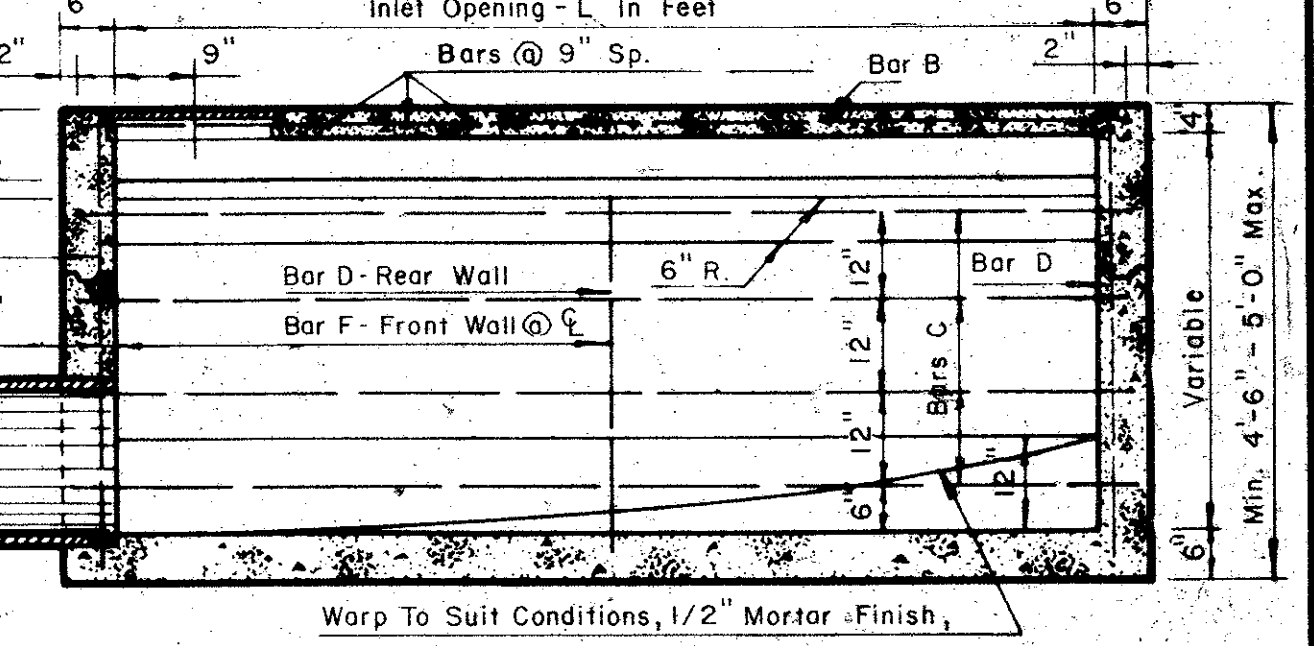
BARS F

BARS G

BARS H



SECTION C-C



SECTION B-B

6, 8 AND 10 FOOT INLETS

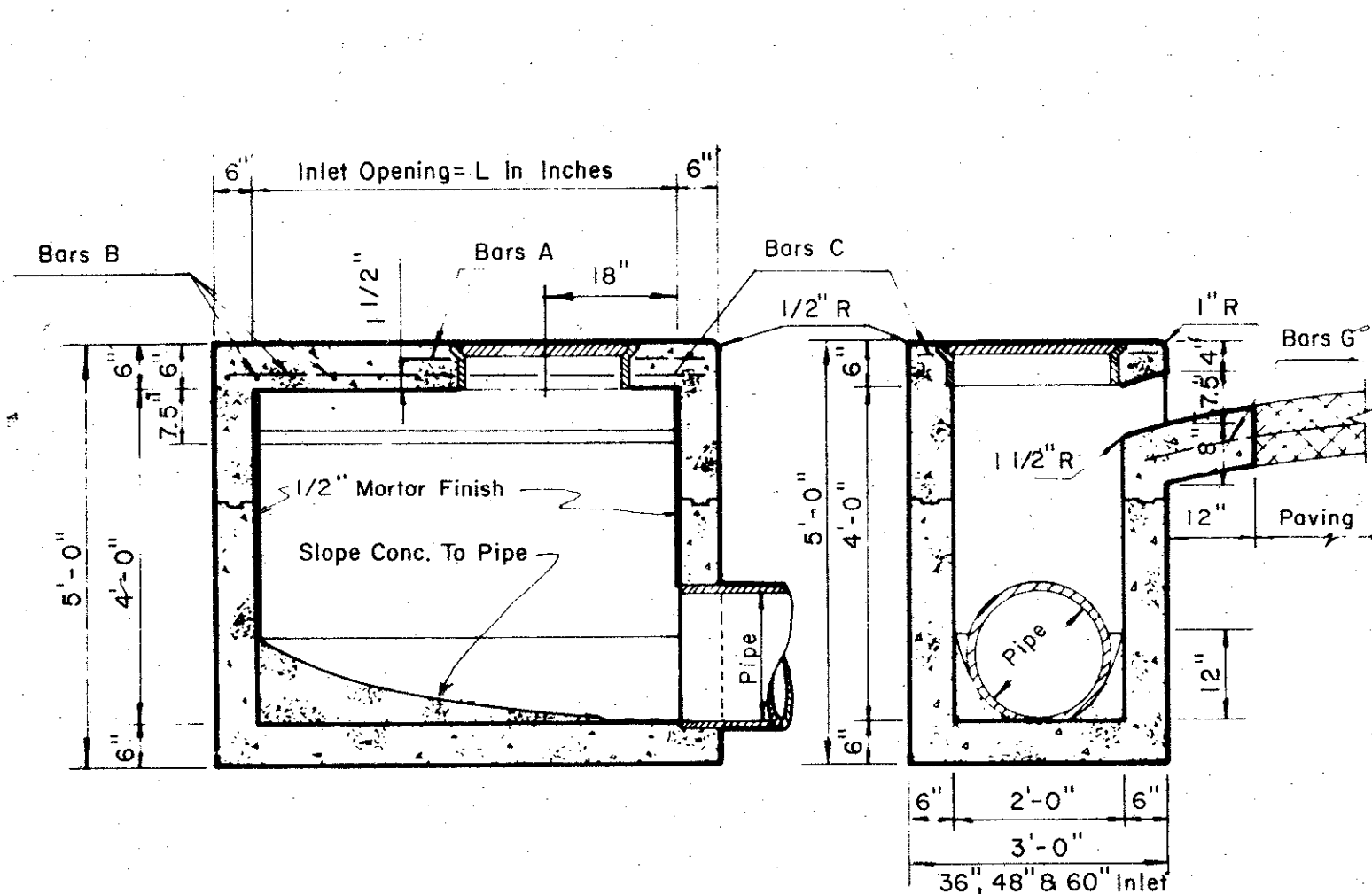
STANDARD CURB INLET
36, 48 & 60 INCH INLET
6, 8 & 10 FOOT INLET

CITY OF ADDISON,
DALLAS COUNTY, TEXAS
ARAPAHO ROAD/QUORUM DRIVE

DRAINAGE DETAILS A

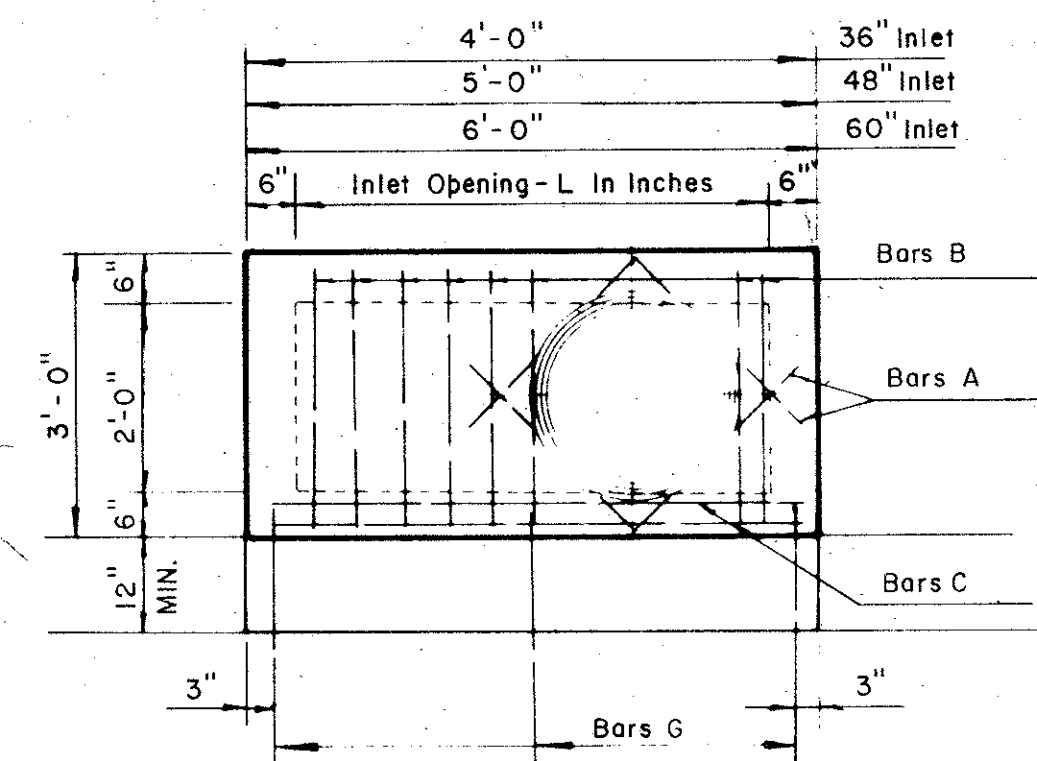
GINN, INC.
Consulting Engineers - Dallas, Texas

DESIGNED - H.B.J. DRAWN - S.M.M. DATE - DECEMBER, 1965 J177
APPROVED - H.W.G. CHECKED - G.F. SCALE - NONE SHEET 19 OF 22

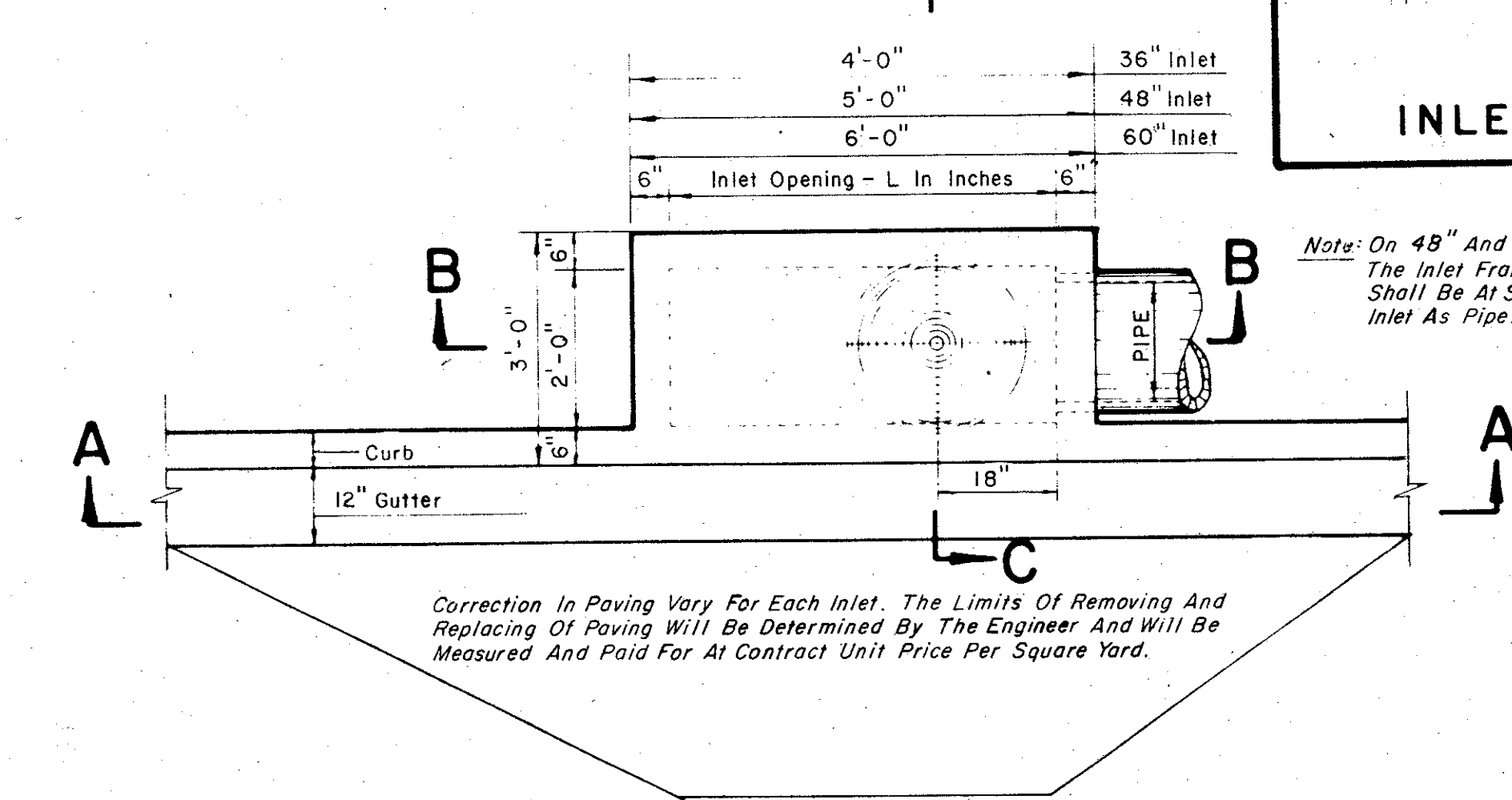


SECTION B-B

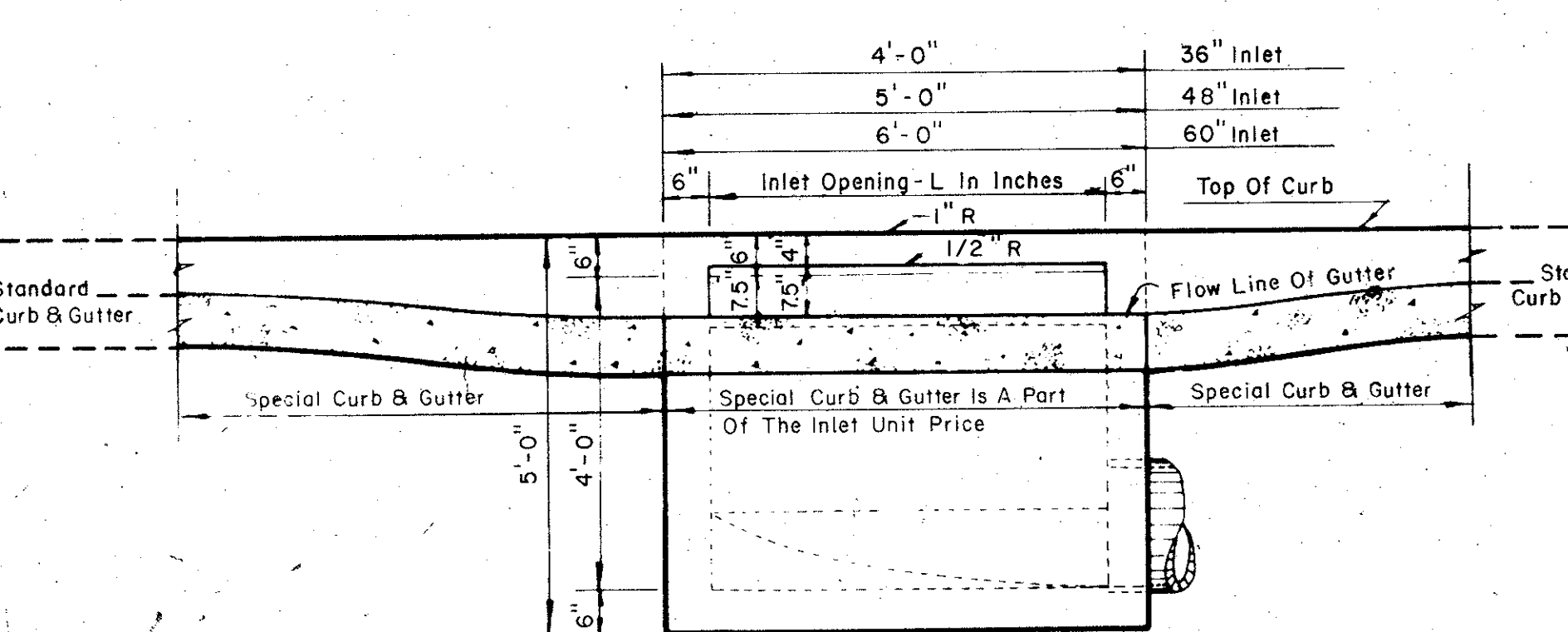
SECTION C-C



REINFORCING PLAN

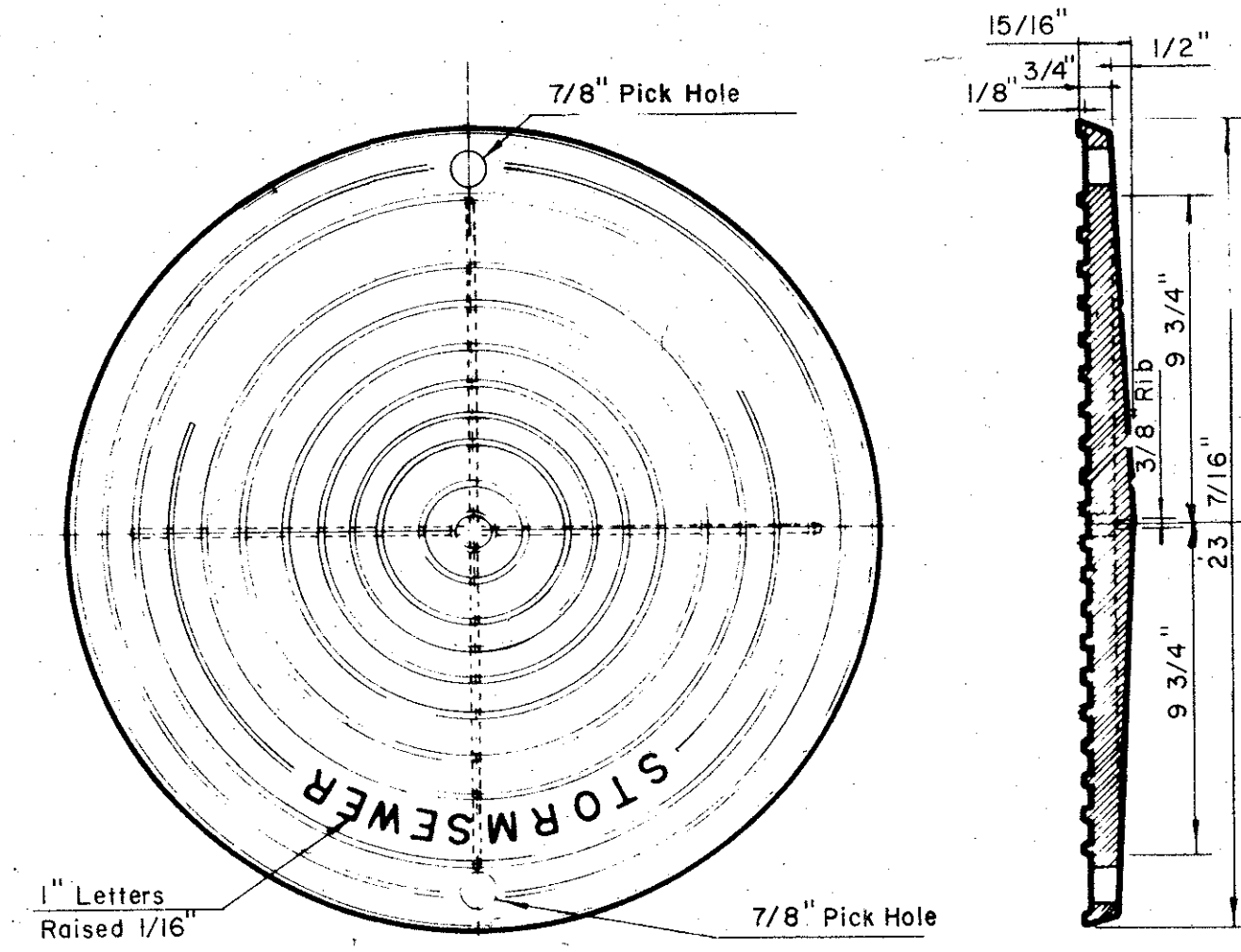


PLAN

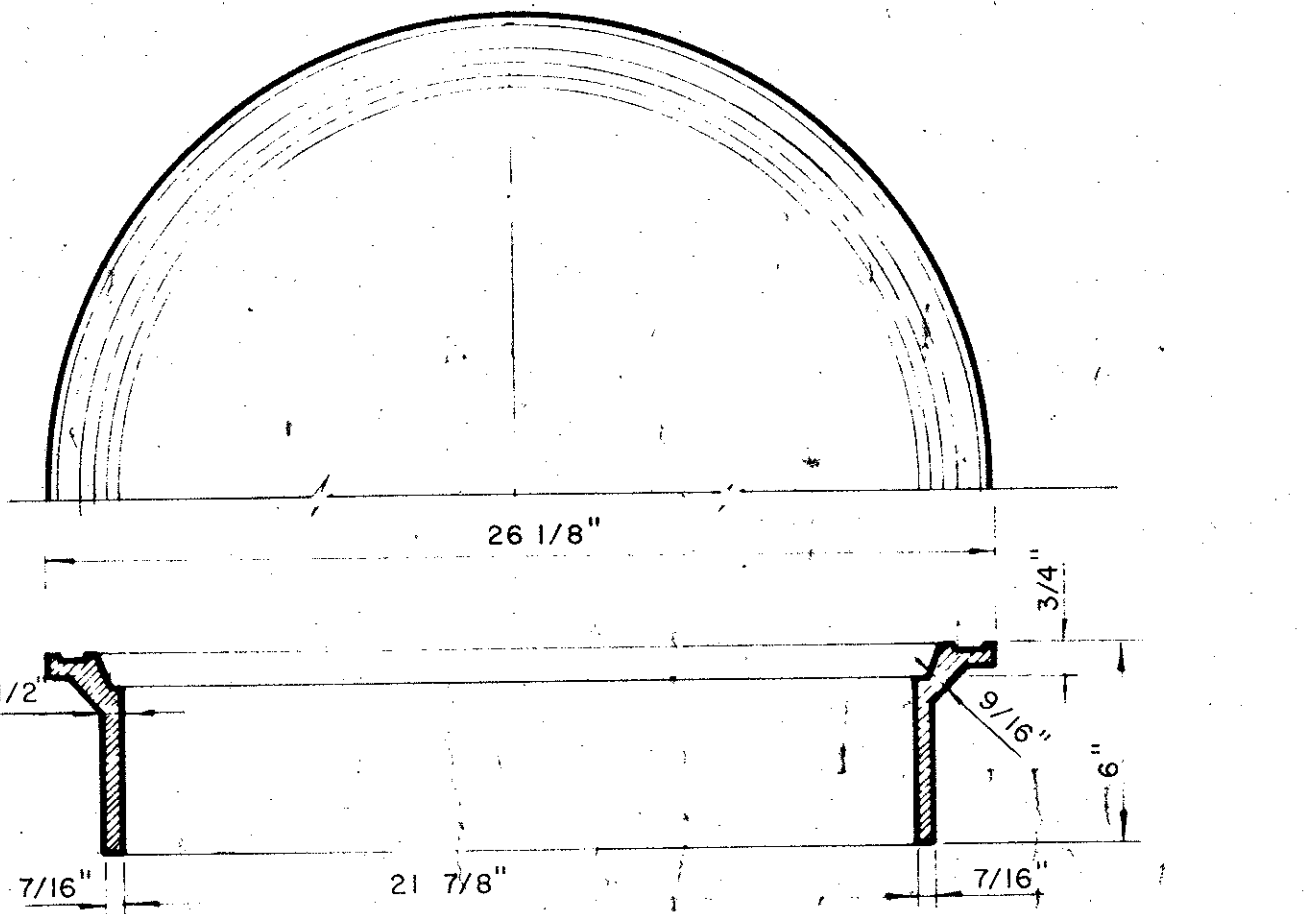


SECTION A-A

36, 48 AND 60 INCH INLETS



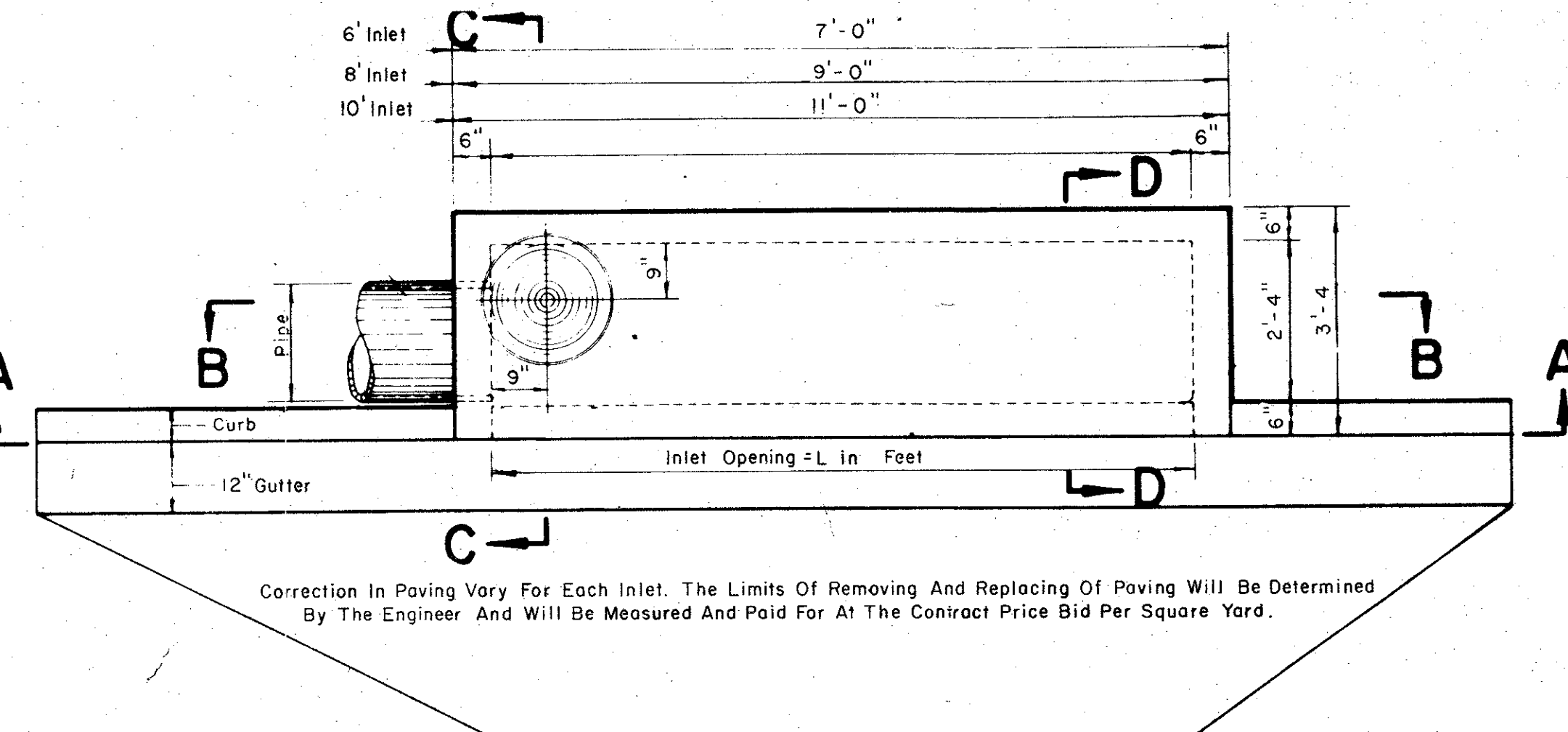
PLAN OF COVER



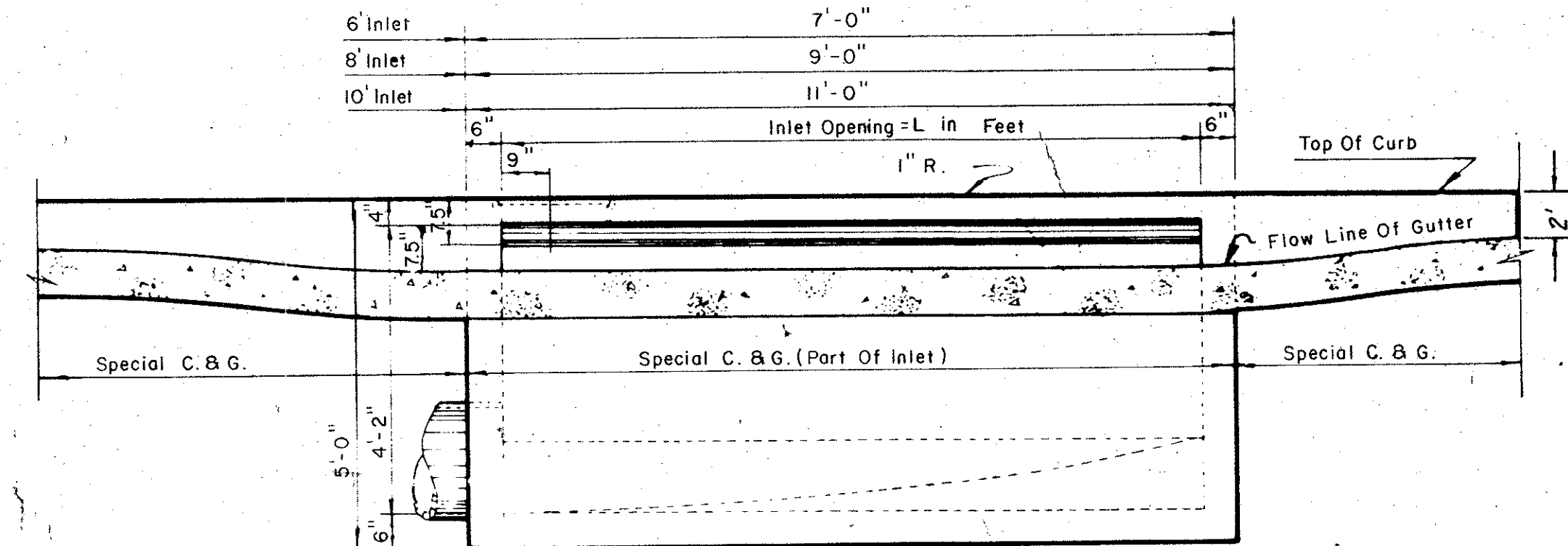
SECTION OF FRAME INLET FRAME AND COVER

Note: On 48" and 60" Inlets The Inlet Frame And Cover Shall Be At Same End Of Inlet As Pipe.

2'-6"	36" Inlet - #5-4 Required
2'-6"	48" Inlet - #5-4 Required
2'-6"	60" Inlet - #5-4 Required
2'-9"	36" Inlet - #5-4 Required
2'-9"	48" Inlet - #5-6 Required
2'-9"	60" Inlet - #5-8 Required
3'-9"	36" Inlet - #5-2 Required
4'-8"	48" Inlet - #5-2 Required
5'-9"	60" Inlet - #5-2 Required
3'-0"	36", 48" & 60" Inlets #3-3 Required



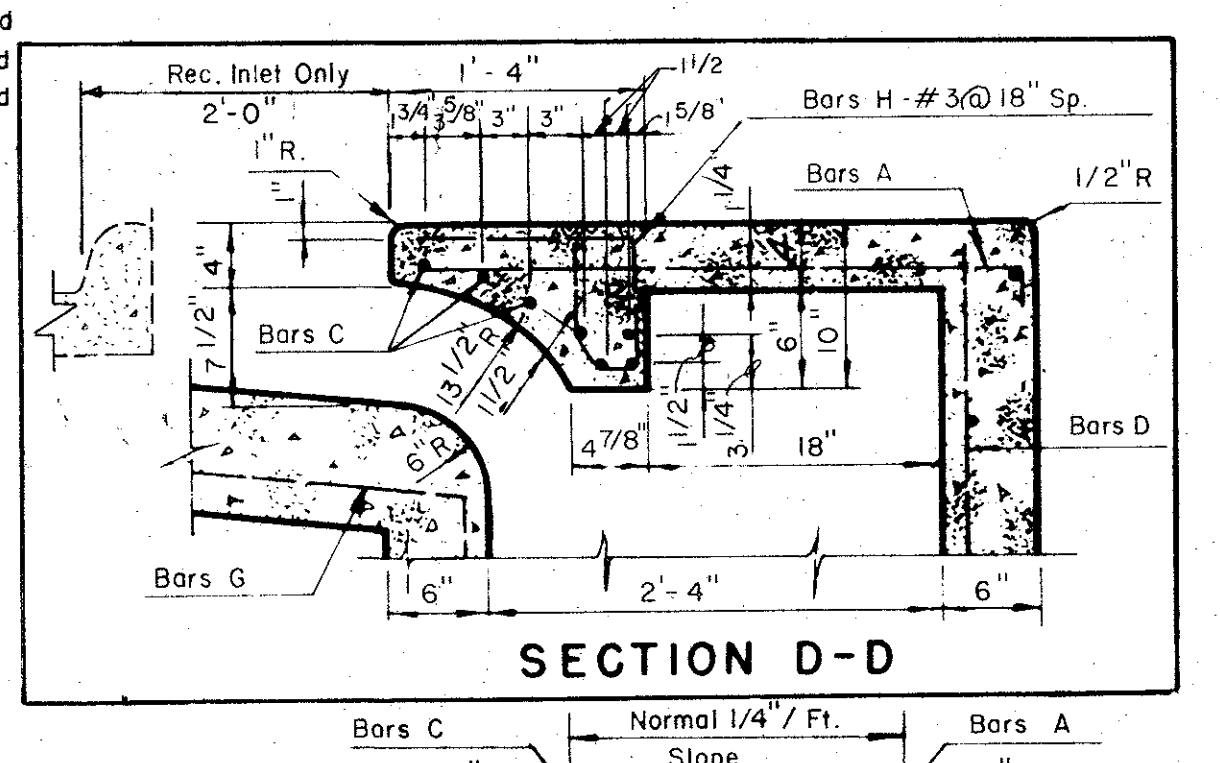
PLAN



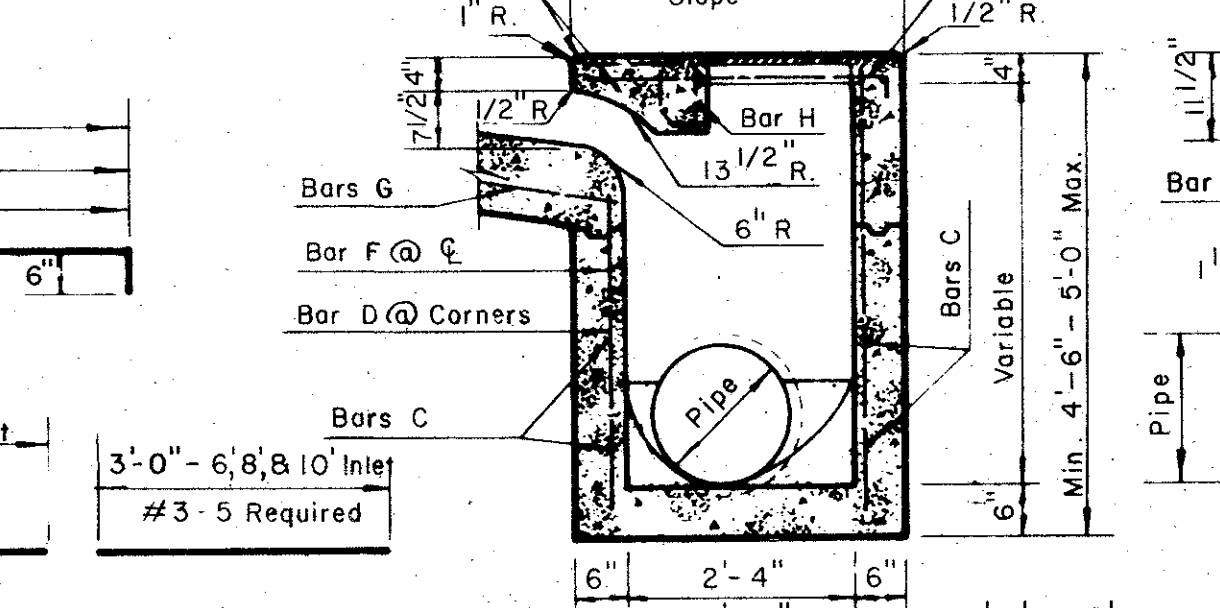
SECTION A-A

3'-0"	6" Inlet - #3-10 Required
3'-0"	8" Inlet - #3-13 Required
3'-0"	10" Inlet - #3-16 Required
4'-10"	6" Inlet - #3-1 Required
6'-10"	8" Inlet - #3-1 Required
8'-10"	10" Inlet - #3-1 Required
4'-8", 6", 8" & 10" Inlet	#4-5 Required
3'-6", 6", 8" & 10" Inlet	#4-1 Required
3'-0", 6", 8", & 10" Inlet	#3-5 Required

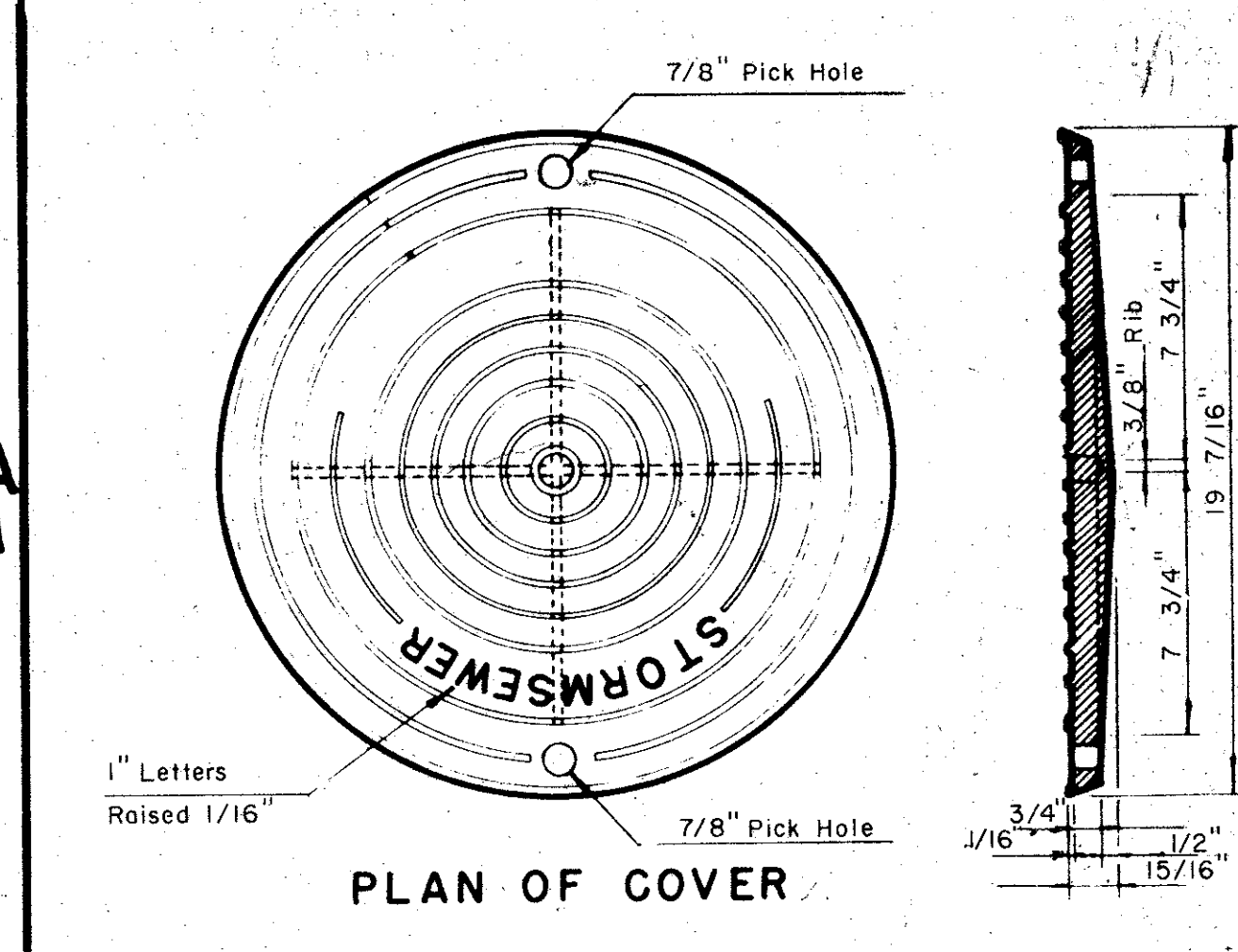
6'-8"	6" Inlet - #4-15 Required
8'-8"	8" Inlet - #4-15 Required
10'-8"	10" Inlet - #4-15 Required



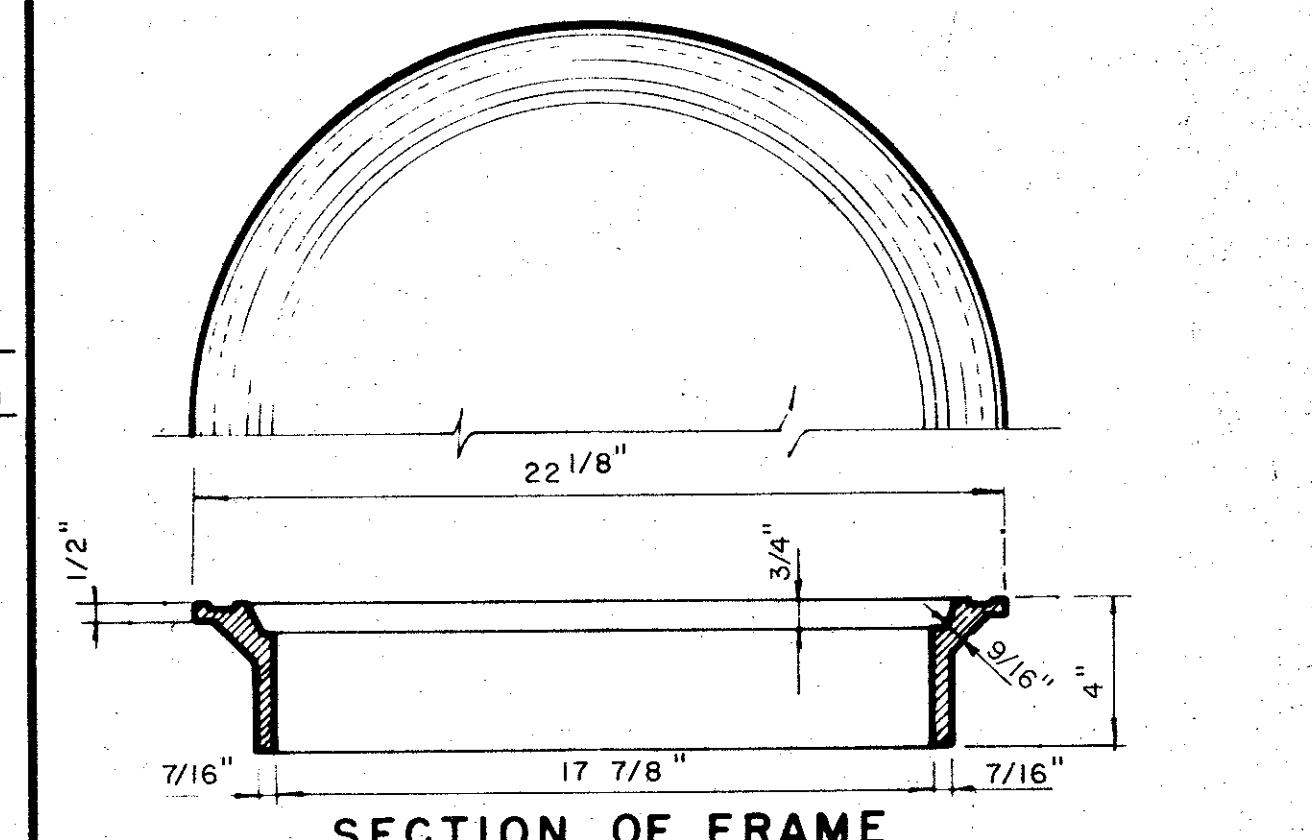
SECTION D-D



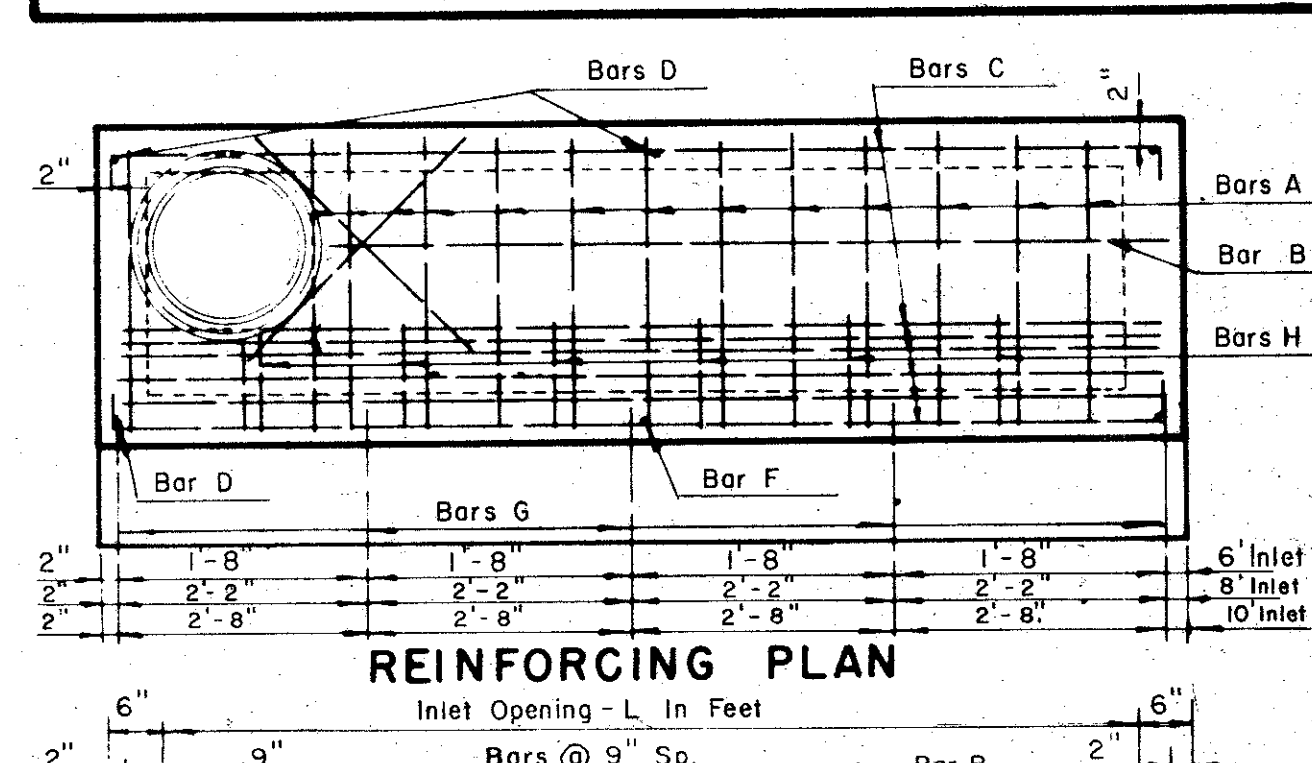
SECTION C-C



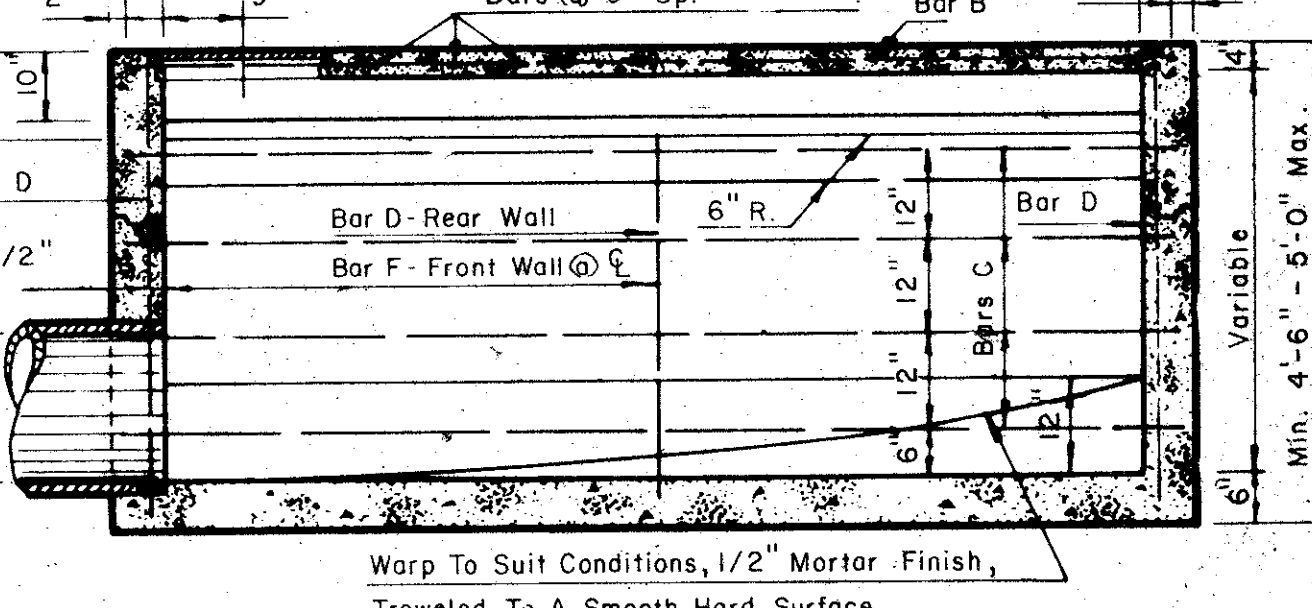
PLAN OF COVER



SECTION OF FRAME INLET FRAME AND COVER



REINFORCING PLAN



SECTION B-B

NOTES:

- Concrete Shall Have A Min. Compressive Of 3,000 P.S.I. At 28 Days.
- Lateral Pipe May Enter Inlet At Any Location. (Field Locate)
- The 12" Gutter In Front Of Inlet Is A Part Of The Inlet And Shall Be Built With The Inlet.
- Top Of Inlet Slope Shall Conform To Adjacent Parkway Normal 1/4" Ft. Slope.

STANDARD CURB INLET

36, 48 & 60 INCH INLET
6, 8 & 10 FOOT INLET

CITY OF ADDISON
DALLAS COUNTY, TEXAS
ARAPAHO ROAD/QUORUM DRIVE

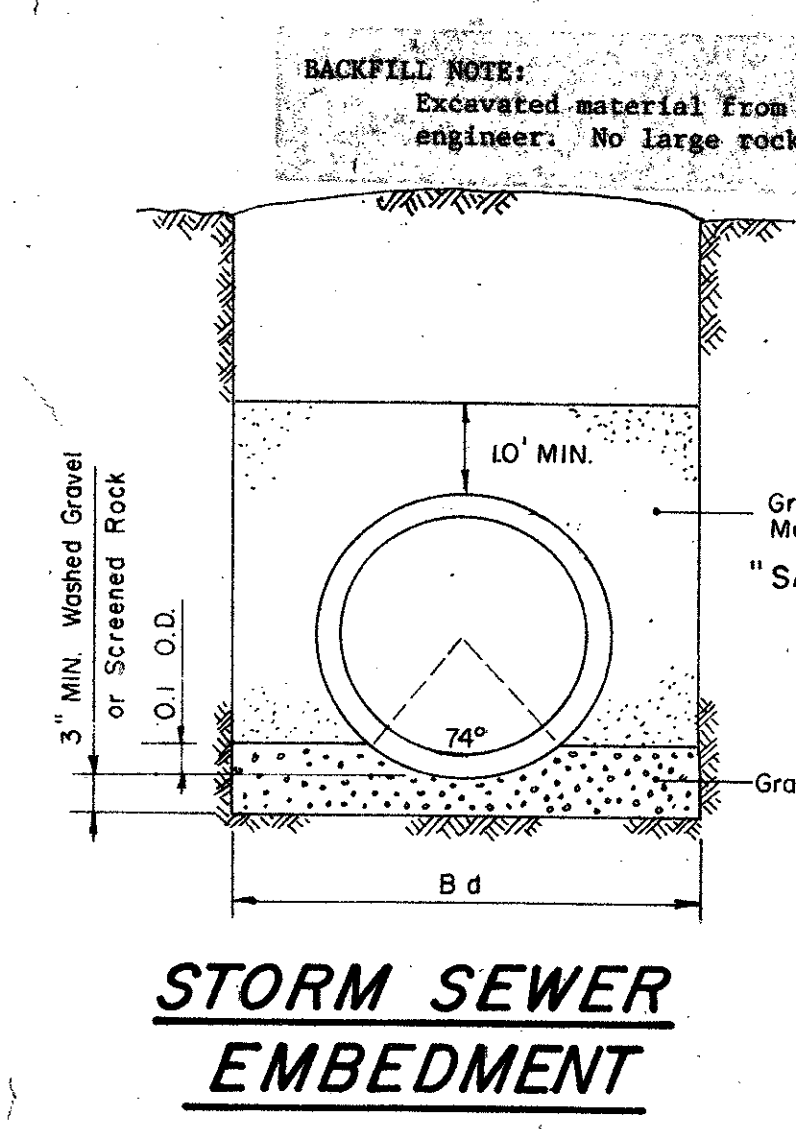
DRAINAGE DETAILS A

GINN, INC.

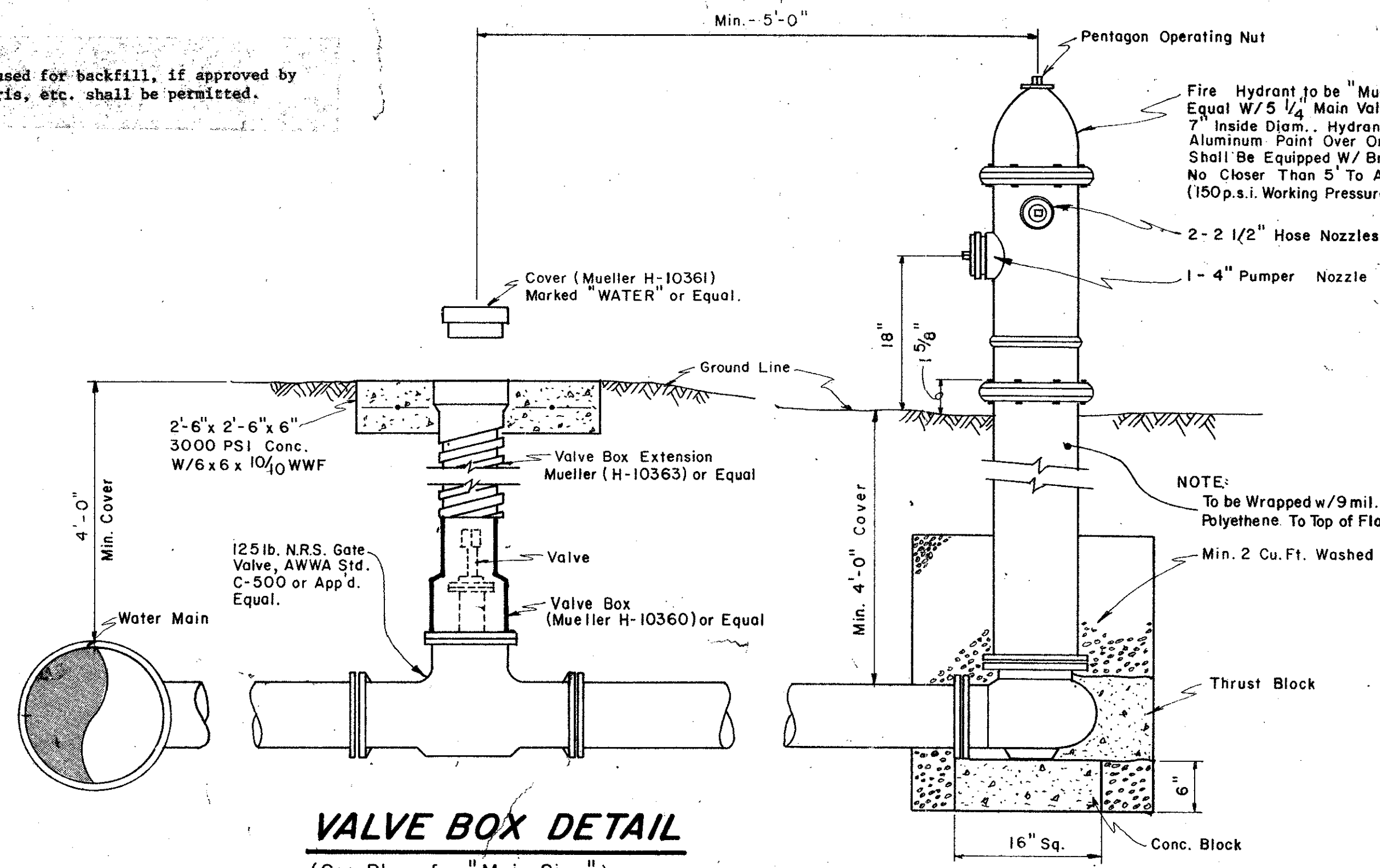
Consulting Engineers - Dallas, Texas

DESIGNED - H.B.J. DRAWN - S.M.M. DATE - DECEMBER, 1965 J 177
APPROVED - H.W.G. CHECKED - G.F. SCALE - NONE SHEET 19 OF 22

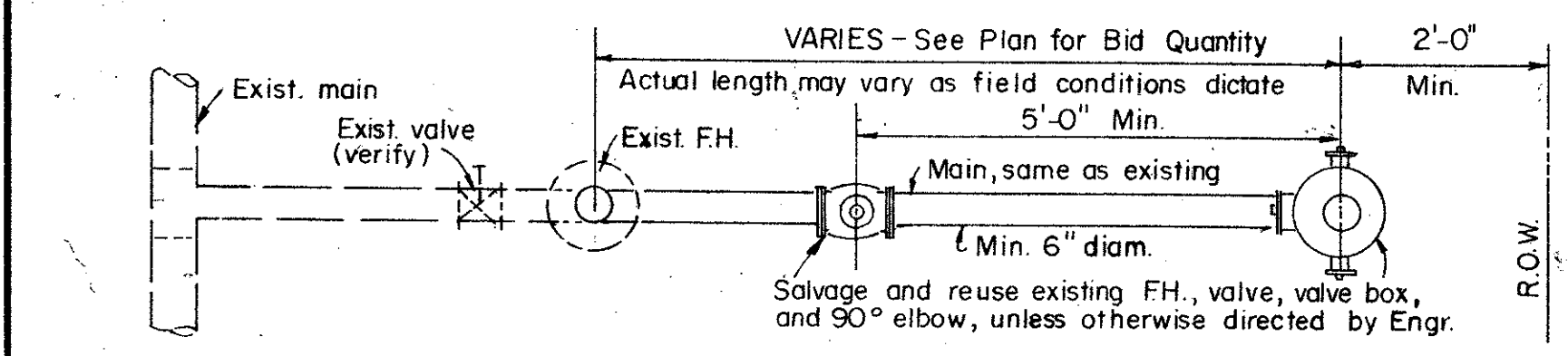
STORM SEWER EMBEDMENT					
PIPE DIAM.	I.D.	O.D.	CU. YDS. Per 100 L.F.		
			GRAVEL	SAND	GRANULAR MATERIAL
15"	19"	39"	4.53	22.28	
18"	22.5"	42"	5.13	25.15	
21"	26"	45"	5.76	28.03	
24"	29.5"	48"	6.42	30.94	
27"	33"	51"	7.11	33.86	
30"	37"	54"	7.85	36.72	
33"	40.5"	57"	8.59	39.64	
36"	44"	60"	9.36	42.58	
39"	47.5"	63"	10.16	45.53	
42"	51"	66"	10.99	48.51	
48"	58"	72"	12.72	54.51	
54"	65"	78"	14.57	60.57	
60"	72"	84"	16.53	66.71	
66"	79"	90"	18.60	72.92	
72"	86"	96"	20.79	79.19	
78"	93"	102"	23.08	85.53	
84"	100"	108"	25.49	91.95	
90"	108.5"	115"	28.47	99.02	
96"	114"	120"	30.64	104.98	
102"	122.5"	129"	34.66	118.41	



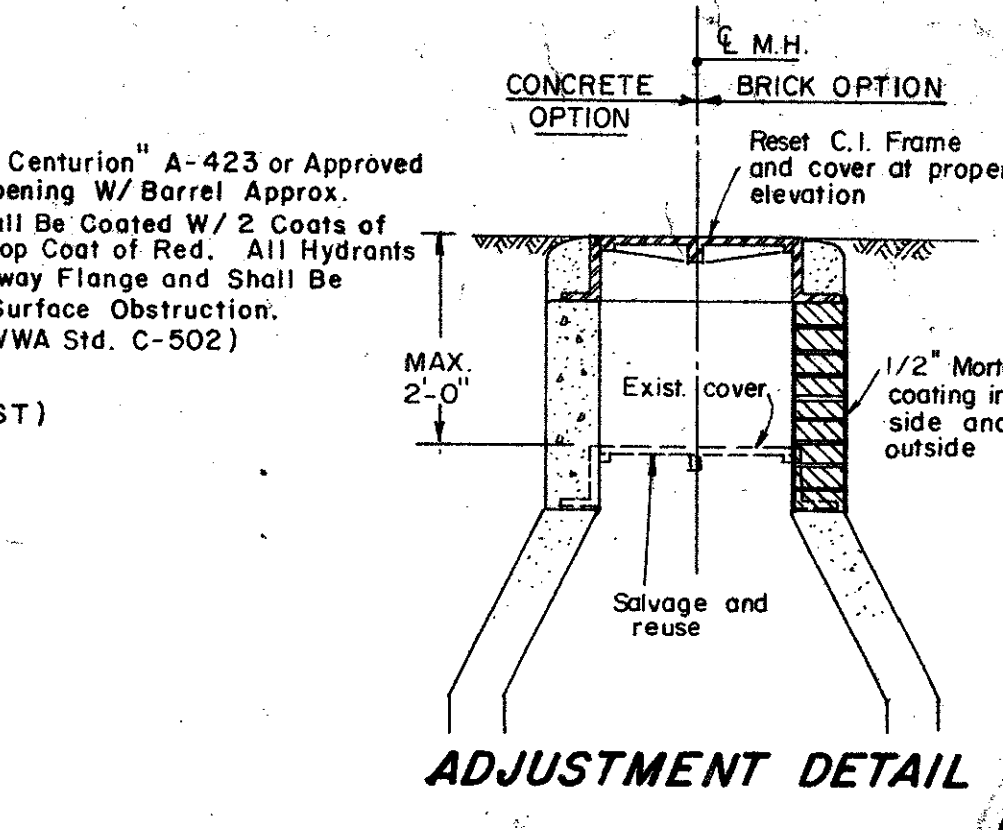
STORM SEWER EMBEDMENT



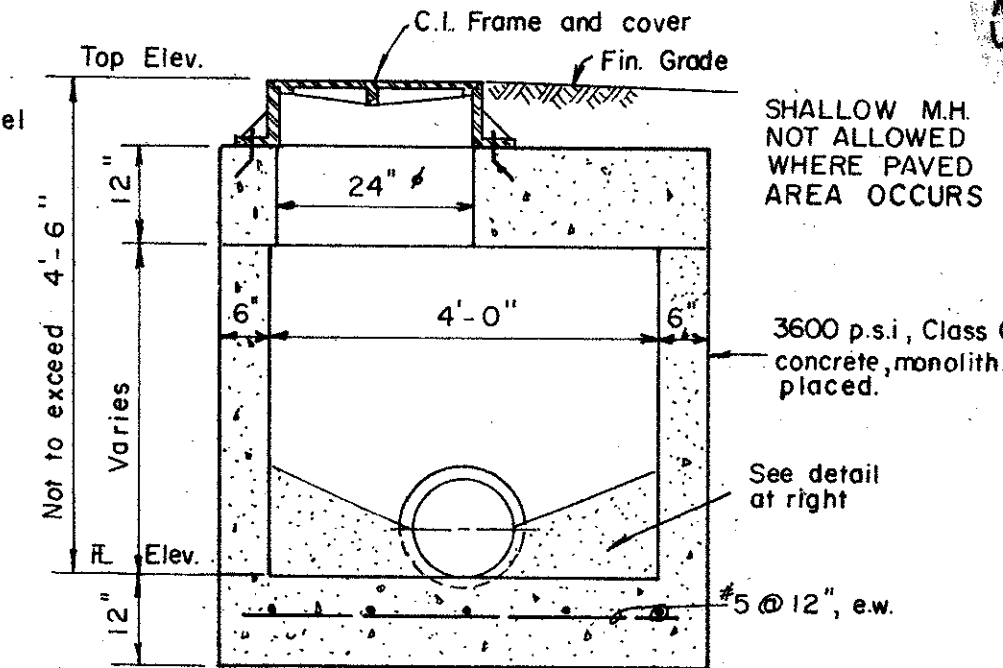
FIRE HYDRANT INSTALLATION
(Includes 6" Valve)



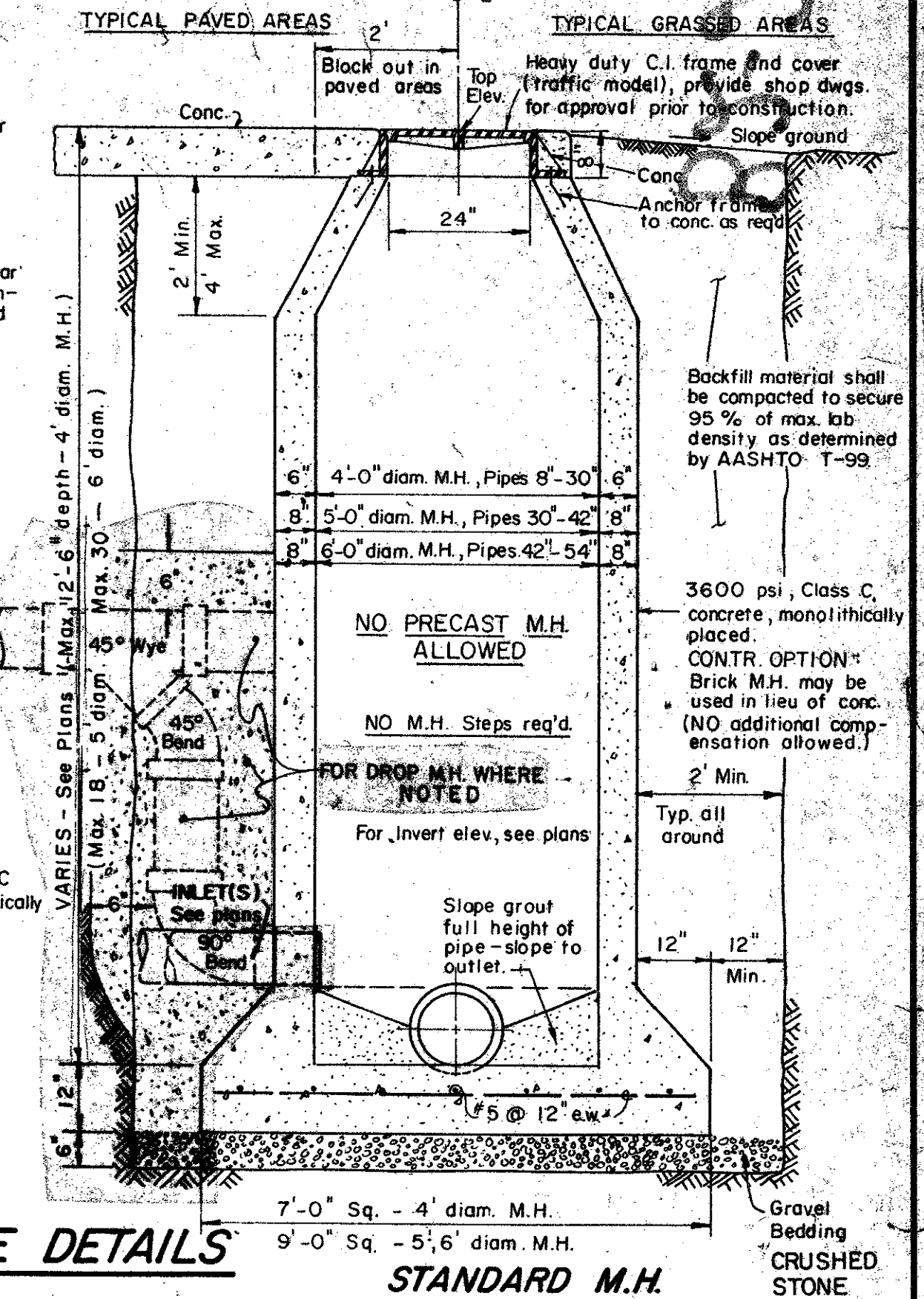
FIRE HYDRANT RELOCATION DETAIL



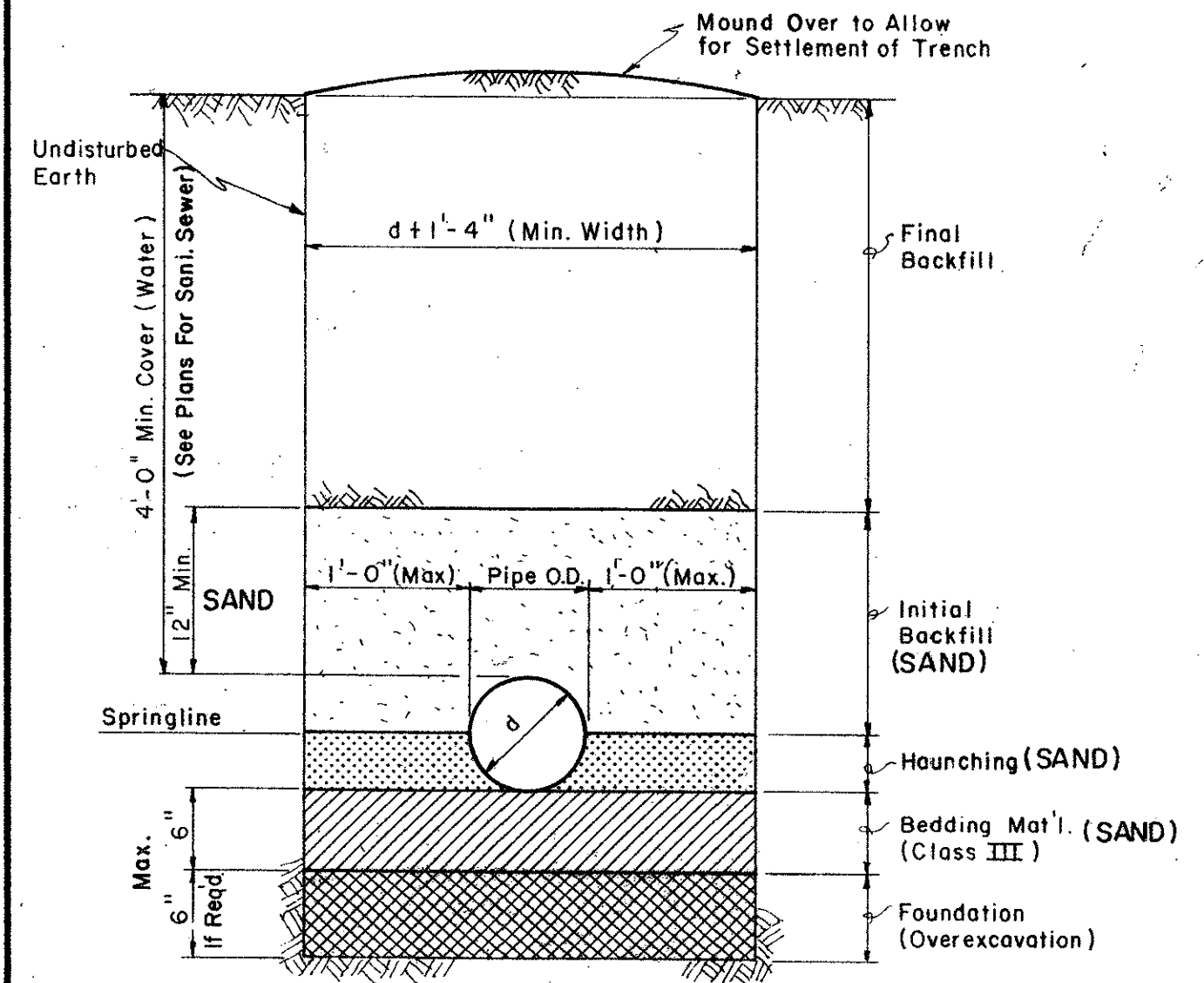
ADJUSTMENT DETAIL



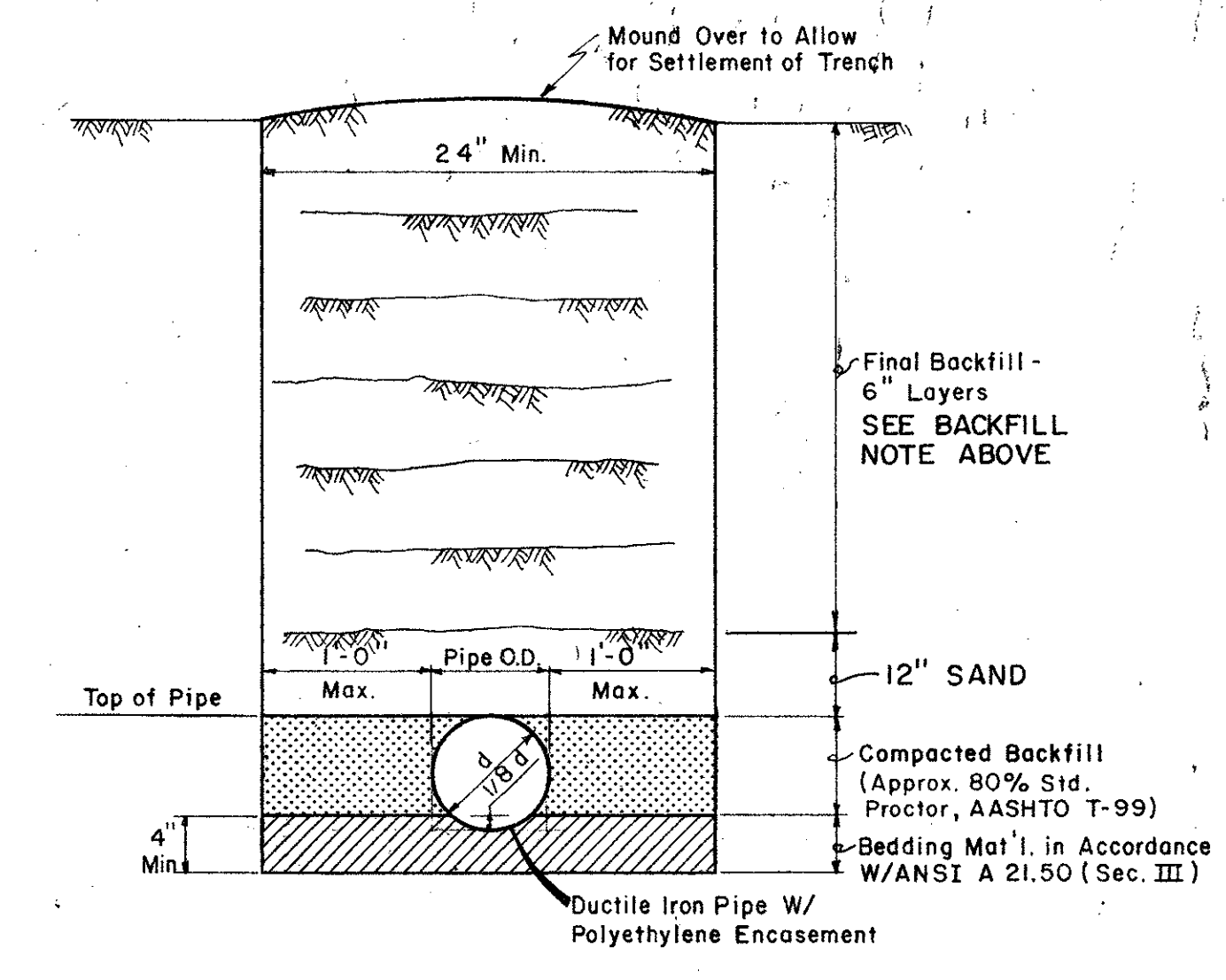
SHALLOW M.H.



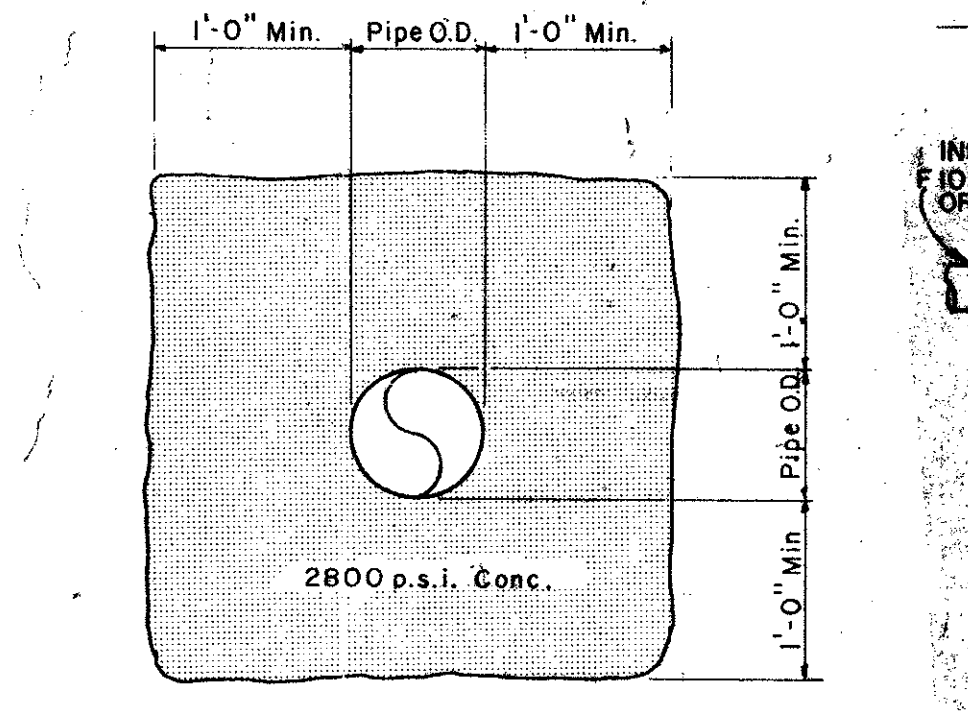
TYPICAL MANHOLE DETAILS



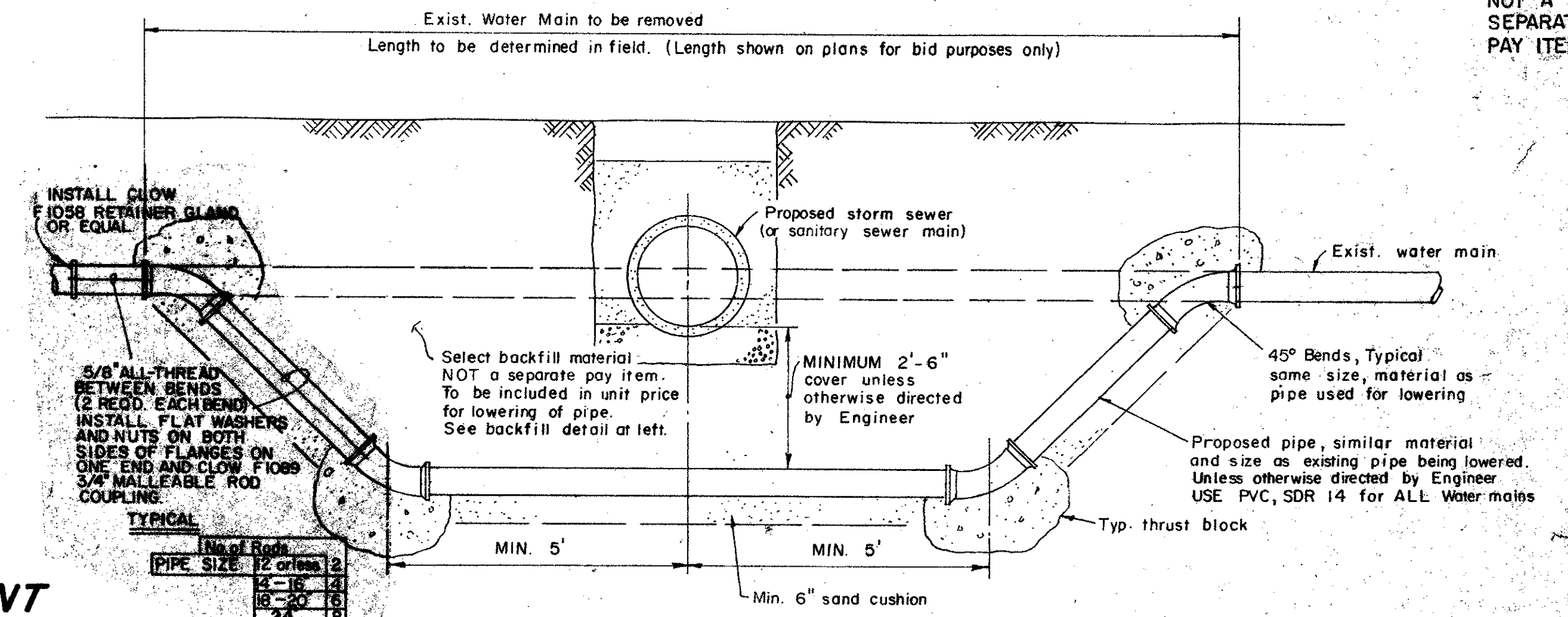
TYP. BACKFILL DETAIL (P.V.C.)



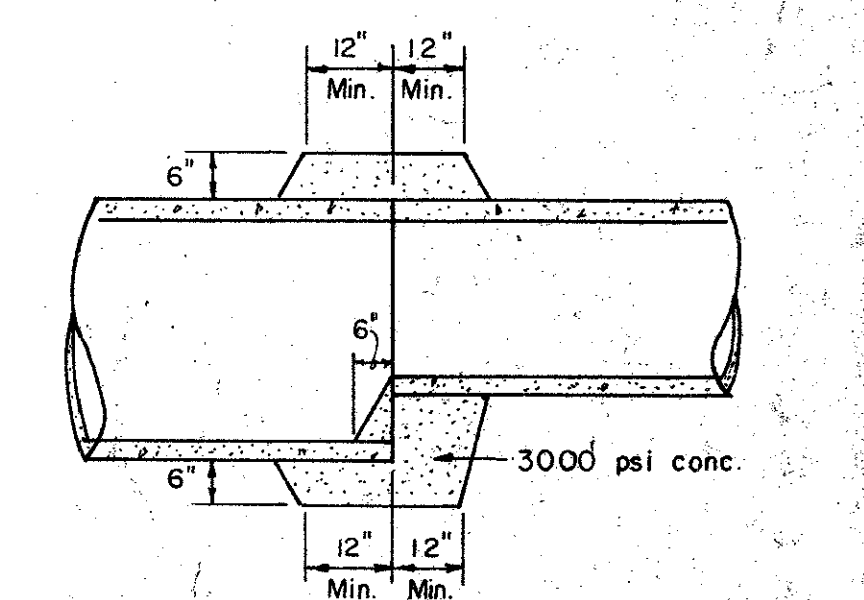
TYP. BACKFILL DETAIL (DUCTILE IRON PIPE)



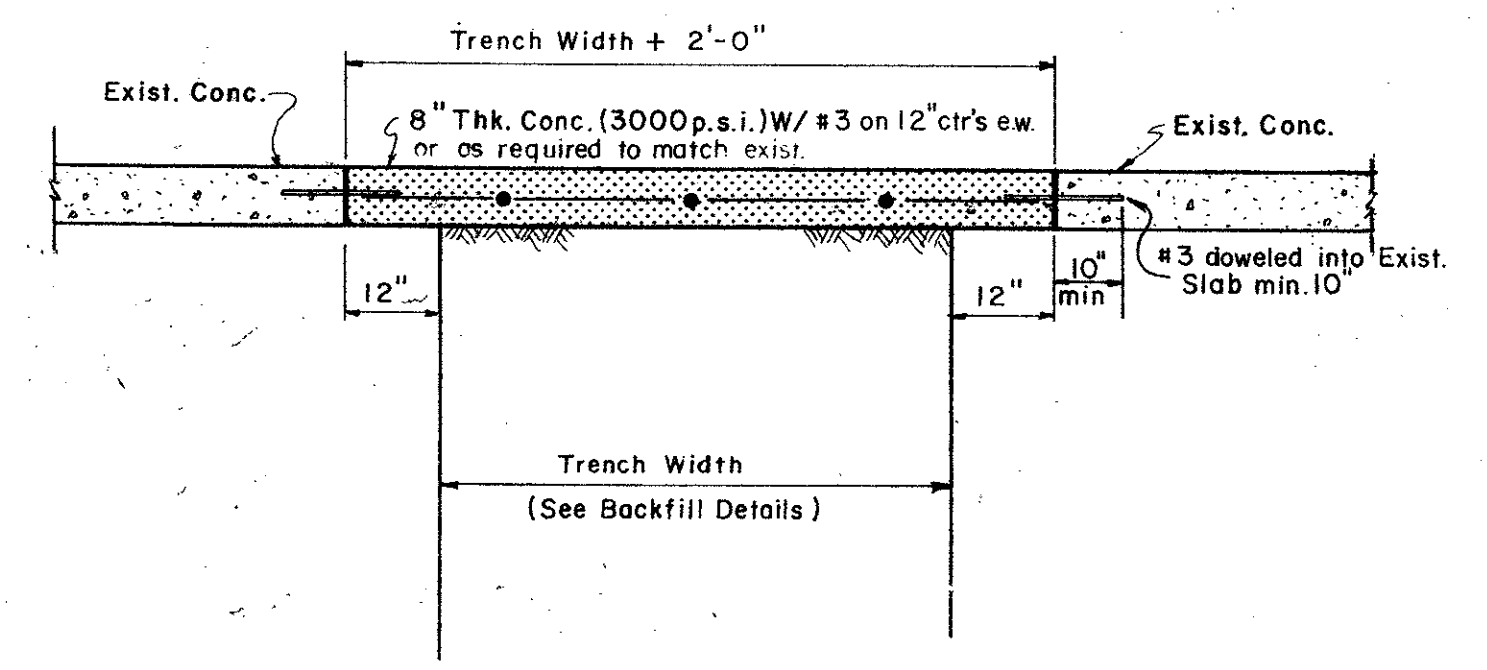
TYP. CONC. ENCASEMENT



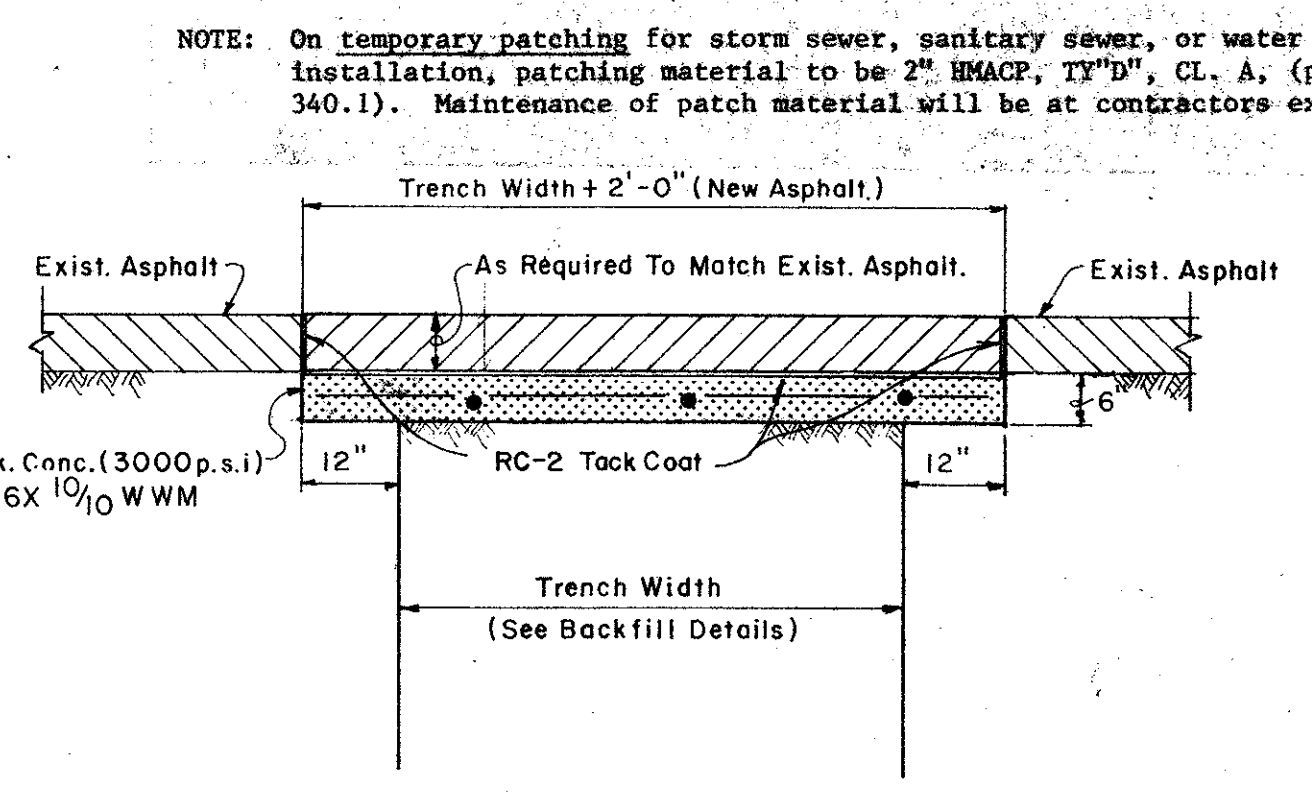
TYPICAL "LOWERING" DETAIL



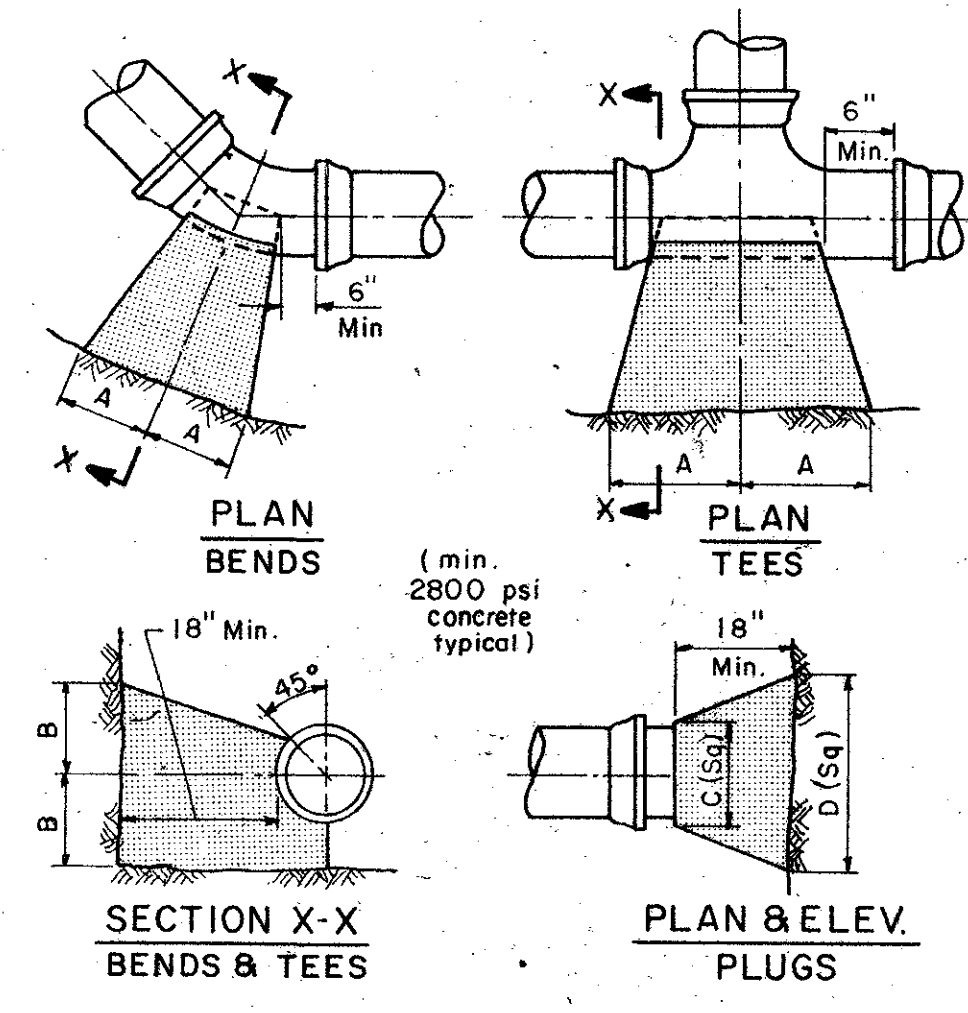
CONC. COLLAR DETAIL



TYP. CONC. PAVEMENT REPLACEMENT DETAIL



TYP. ASPHALT PAVEMENT REPLACEMENT DETAIL



SOIL SIZE	1/4 BEND	1/2 BEND	3/4 BEND	TEE			PLUG	
				A	B	C		
4000 PSF	8"	12"	12"	10"	5"	9"	12"	20"
2000 PSF	8"	22"	13"	13"	8"	10"	13"	29"

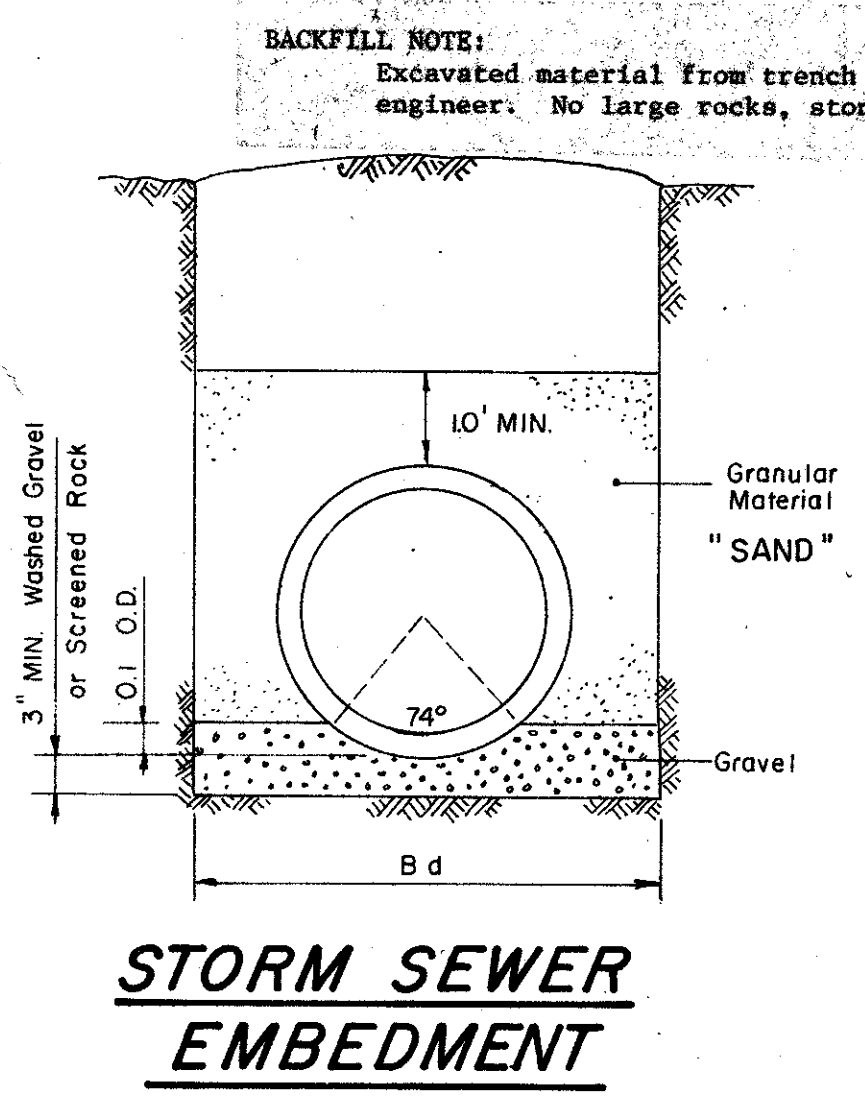
CITY OF ADDISON
DALLAS COUNTY, TEXAS
ARAPAHO ROAD/ QUORUM DRIVE

MISC. DETAILS

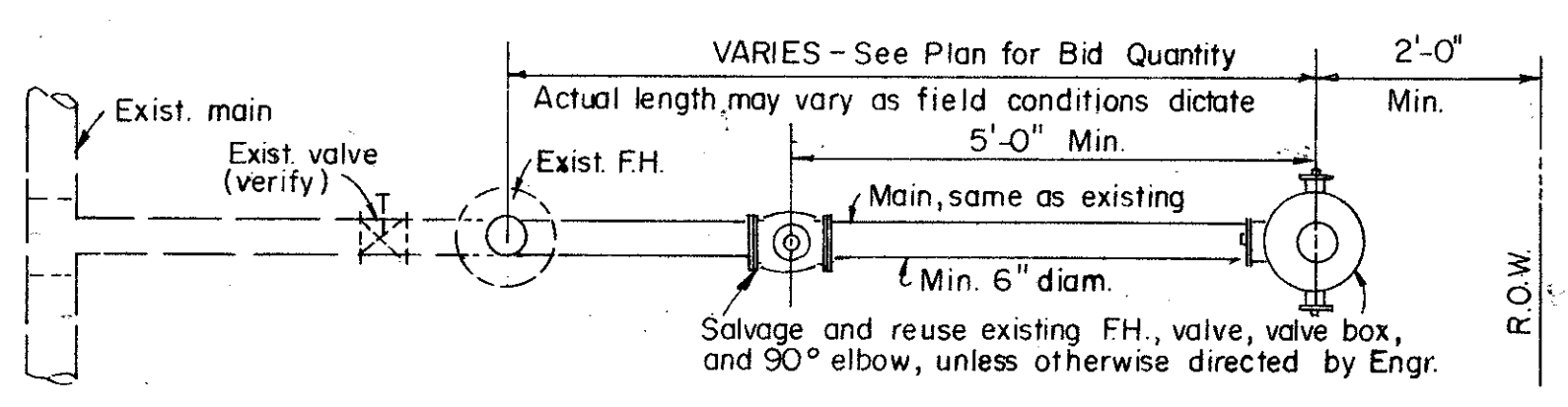
GINN, INC.
Consulting Engineers - Dallas, Texas

DESIGNED: W.K. DRAWN: S.M.M. DATE: DECEMBER, 1988
APPROVED: H.W.G. CHECKED: G.F. SCALE: AS SHOWN SHEET 21 OF 22

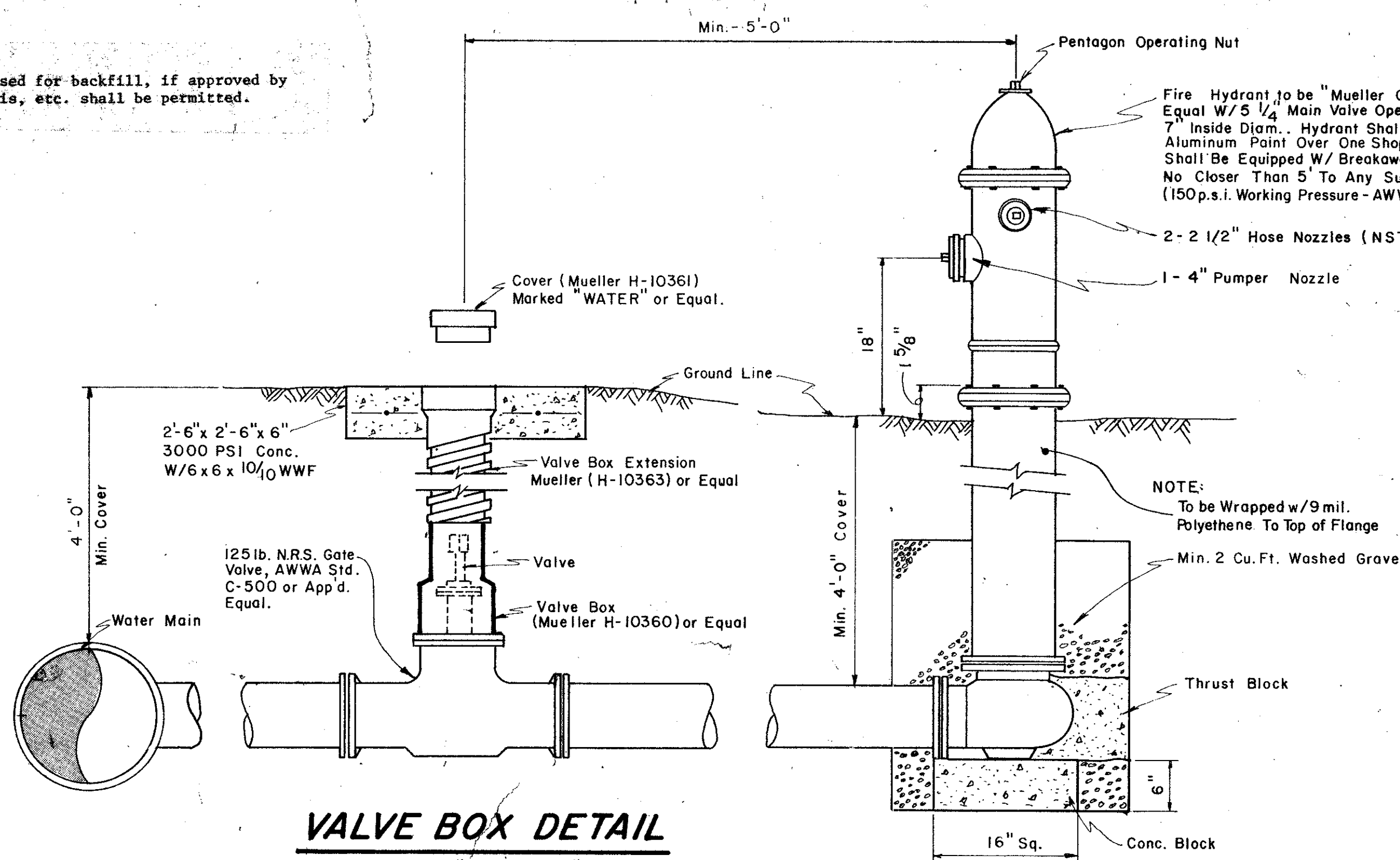
STORM SEWER EMBEDMENT					
PIPE DIAM.	I.D.	O.D.	B d	CU. YDS. Per 100 L.F.	
				GRAVEL	GRANULAR MATERIAL
15"	19"	39"	4.53	22.28	
18"	22.5"	42"	5.13	25.15	
21"	26"	45"	5.76	28.03	
24"	29.5"	48"	6.42	30.94	
27"	33"	51"	7.11	33.86	
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33"	40.5"	57"	8.59	39.64	
36"	44"	60"	9.36	42.58	
39"	47.5"	63"	10.16	45.53	
42"	51"	66"	10.99	48.51	
48"	58"	72"	12.72	54.51	
54"	65"	78"	14.57	60.57	
60"	72"	84"	16.53	66.71	
66"	79"	90"	18.60	72.92	
72"	86"	96"	20.79	79.19	
78"	93"	102"	23.08	85.53	
84"	100"	108"	25.49	91.95	
90"	108.5"	115"	28.47	99.02	
96"	114"	120"	30.64	104.98	
102"	122.5"	129"	34.66	118.41	



STORM SEWER EMBEDMENT

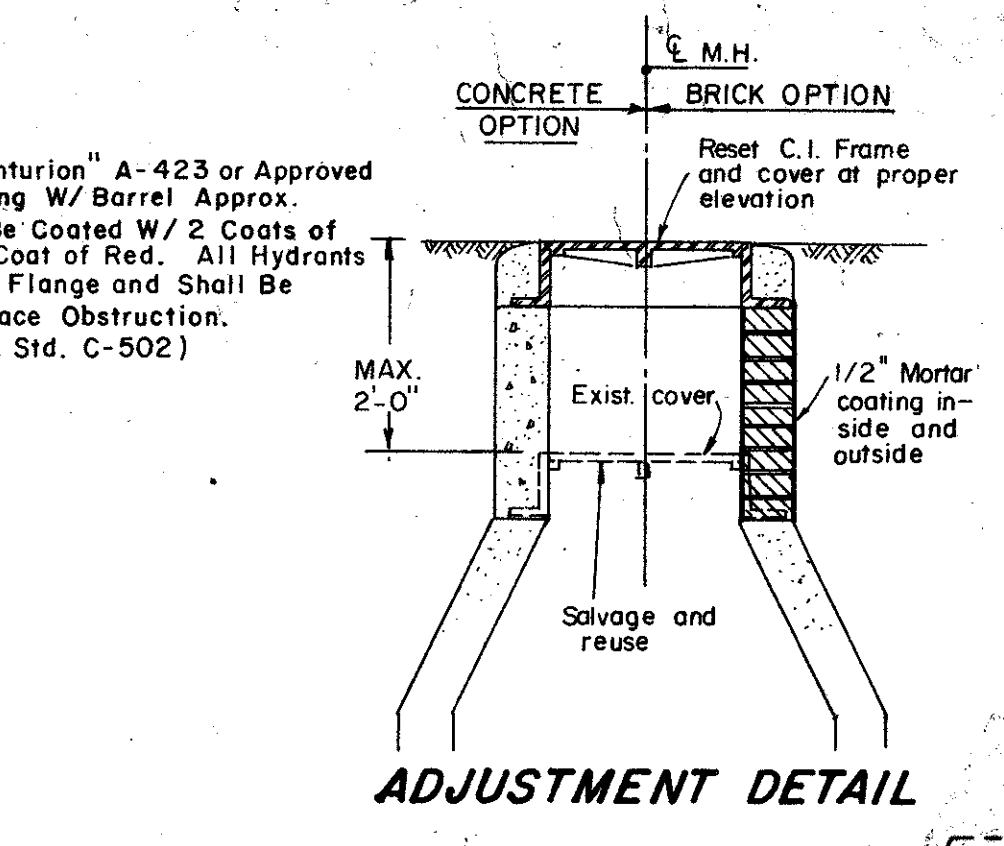


FIRE HYDRANT RELOCATION DETAIL

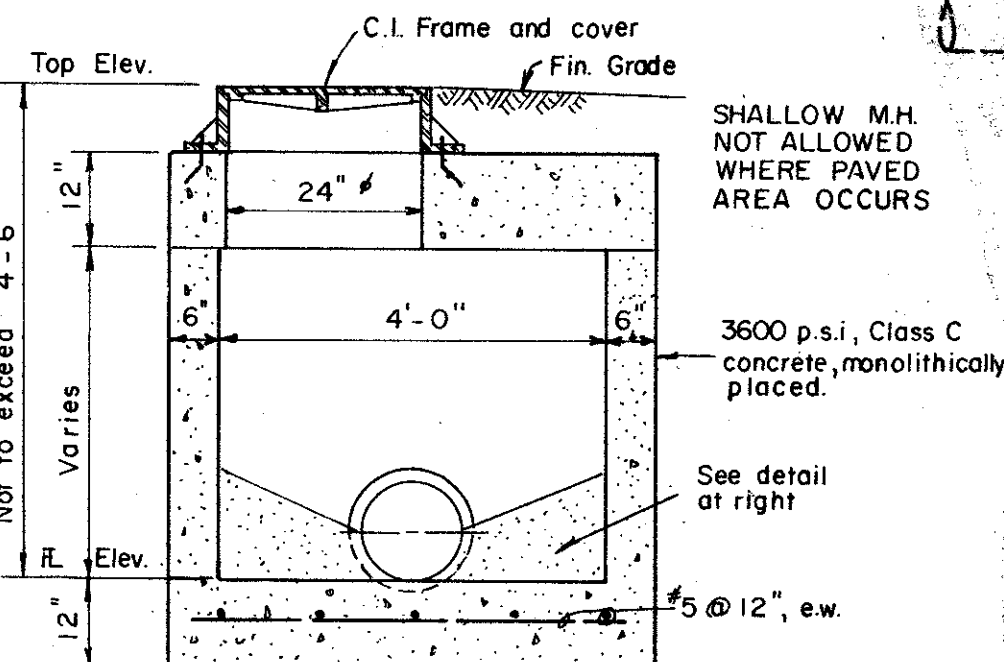


VALVE BOX DETAIL
(See Plans for "Main Size")

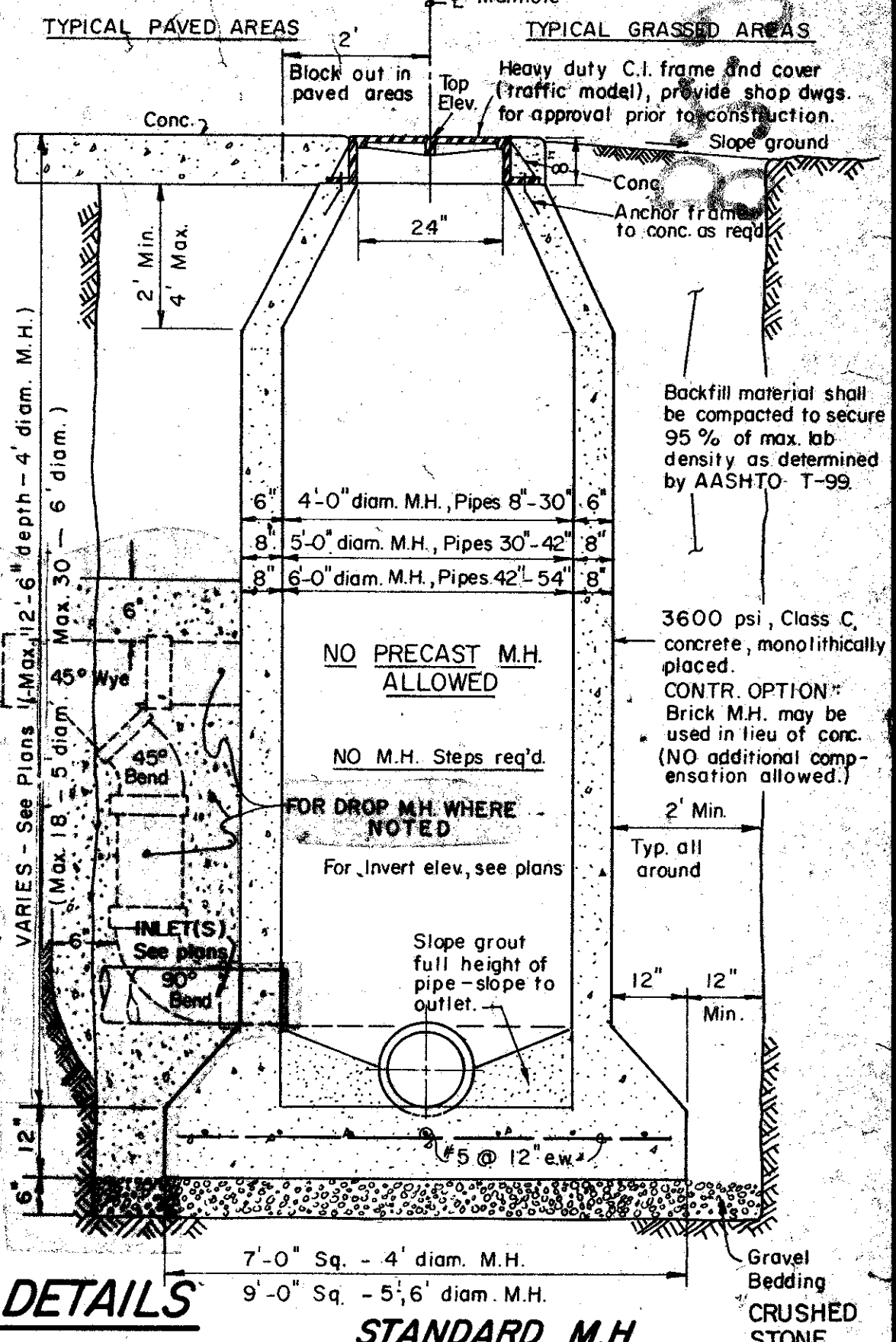
FIRE HYDRANT INSTALLATION
(Includes 6" Valve)



ADJUSTMENT DETAIL

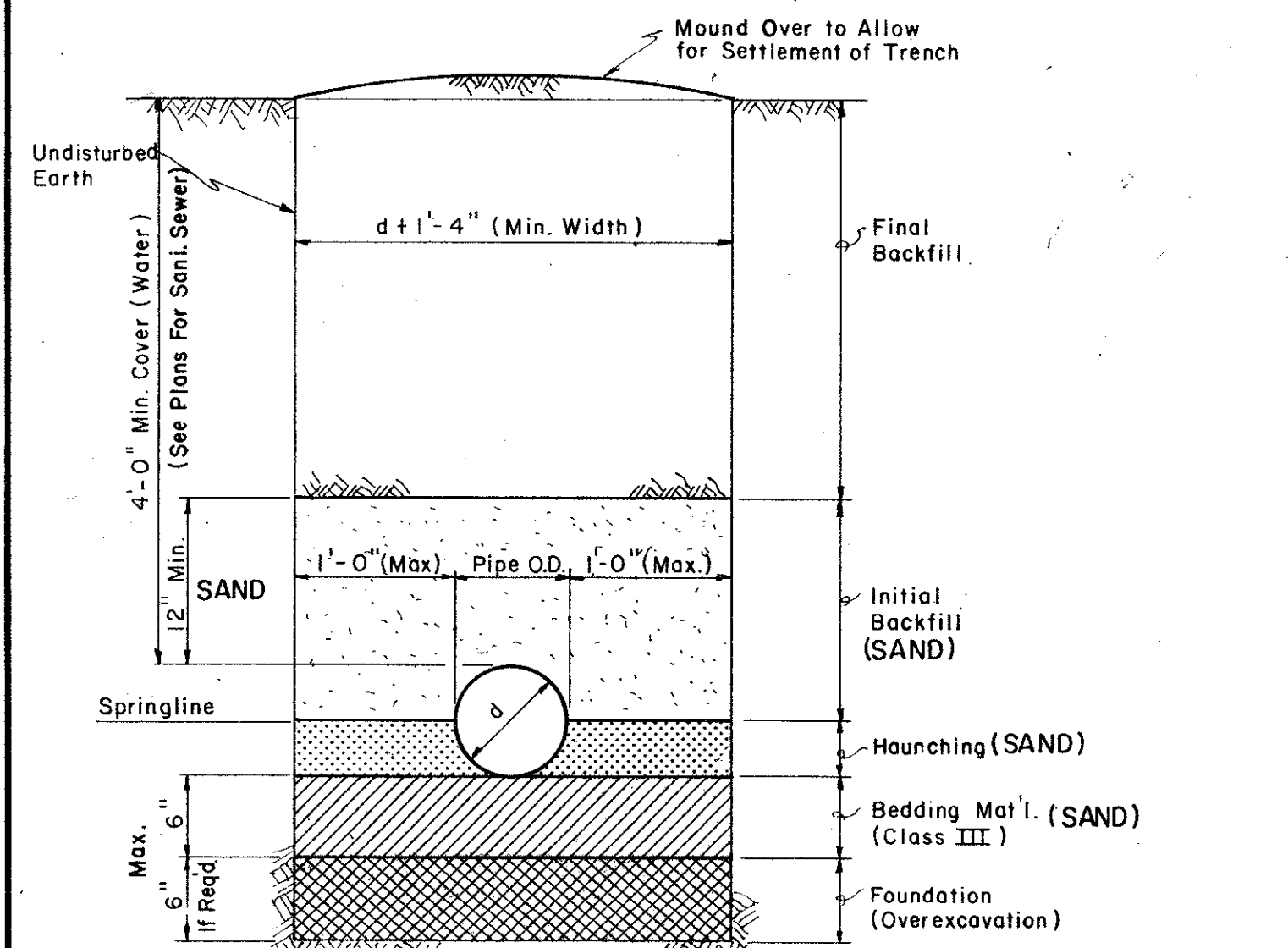


SHALLOW M.H.



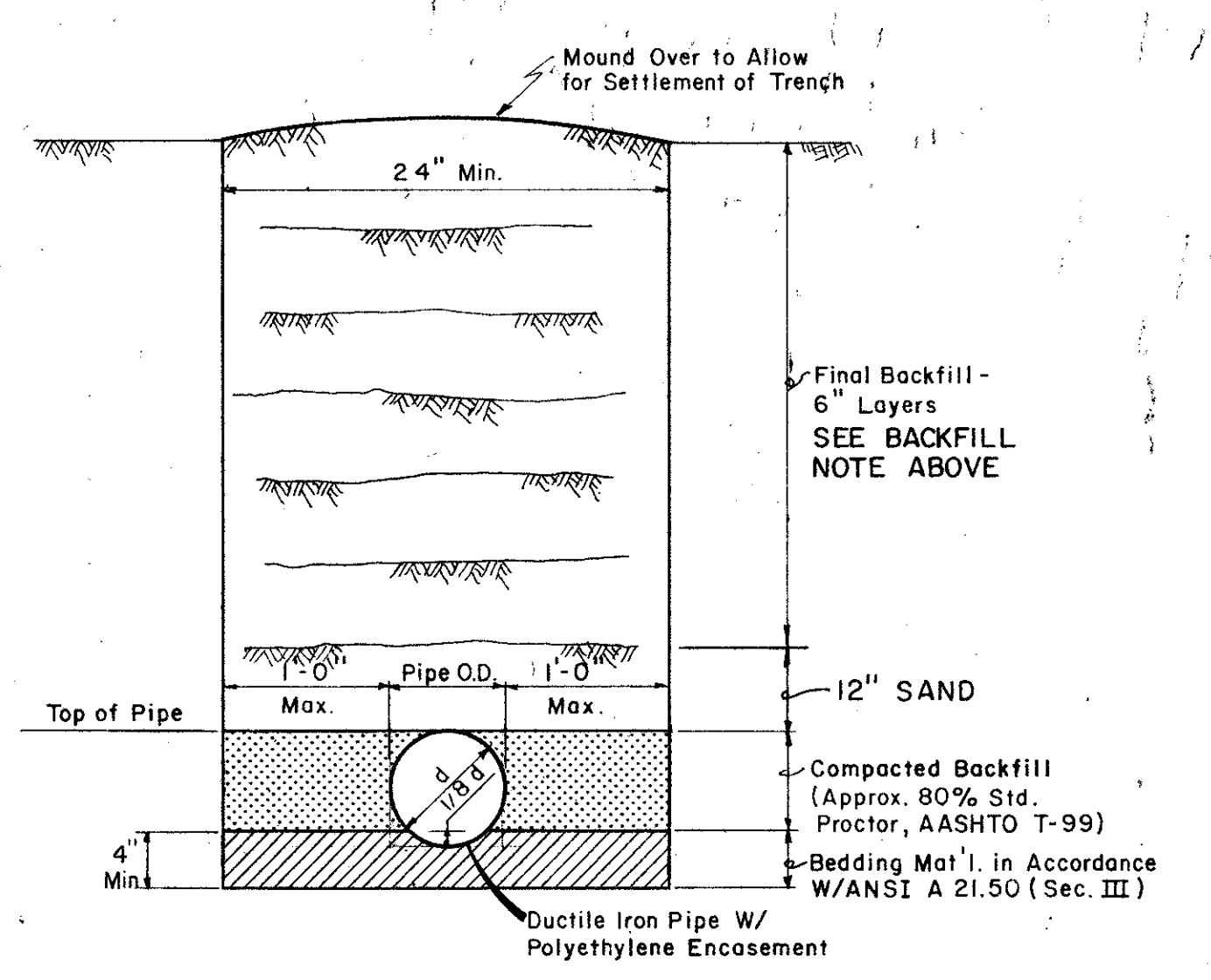
TYPICAL MANHOLE DETAILS

STANDARD M.H.



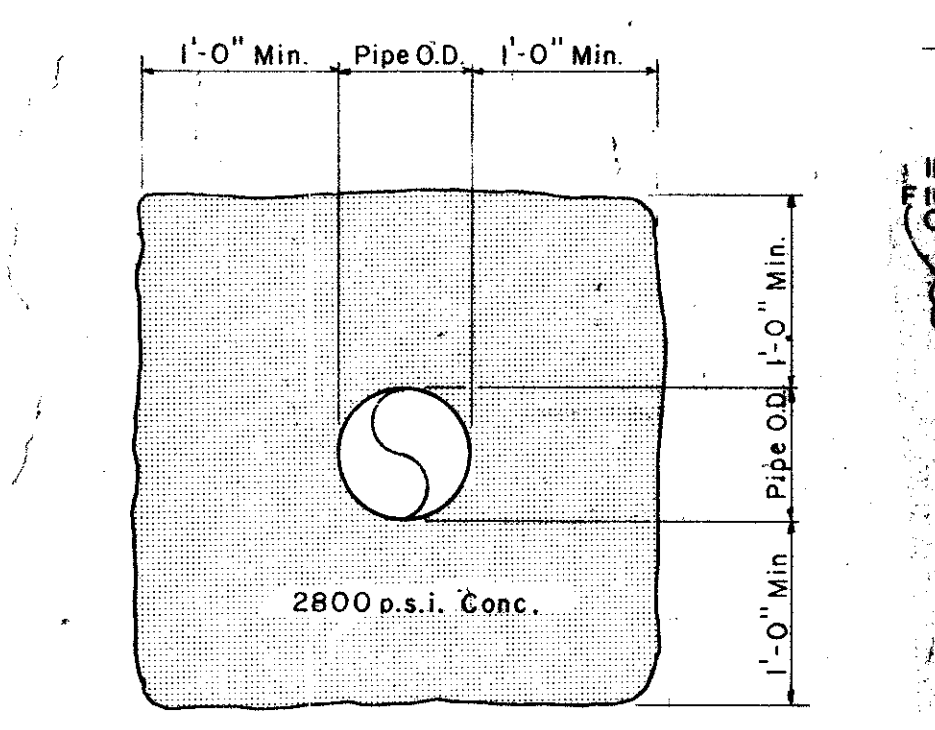
TYP. BACKFILL DETAIL (P.V.C)

Scale = 1" = 1'-0"

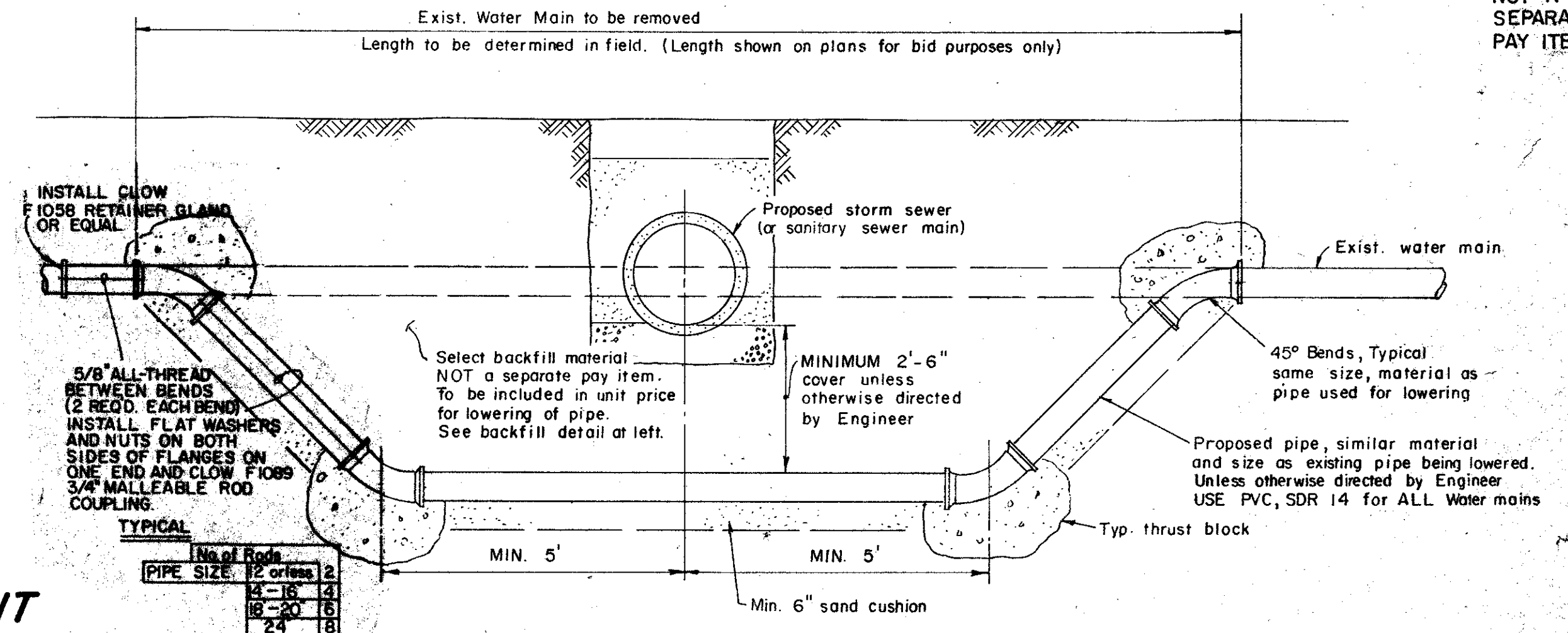


TYP. BACKFILL DETAIL (DUCTILE IRON PIPE)

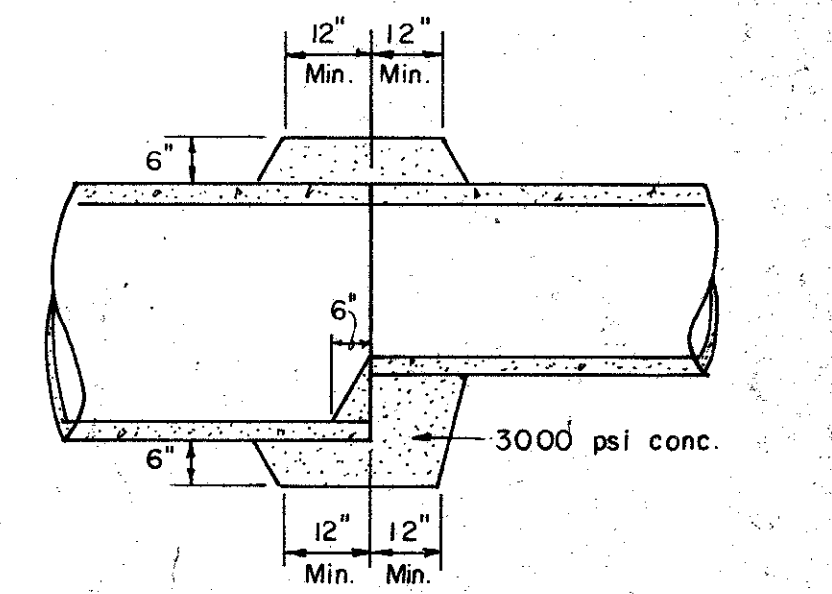
Scale = 1" = 1'-0"



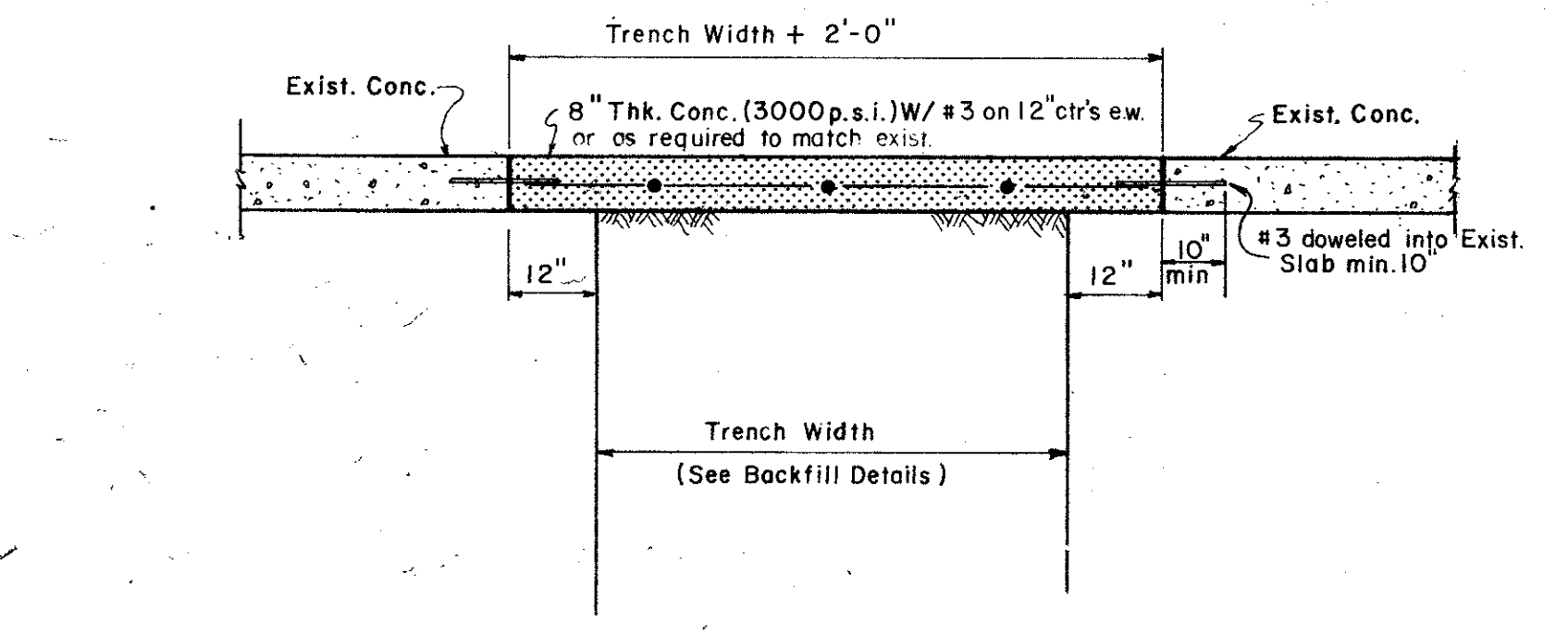
TYP. CONC. ENCASEMENT



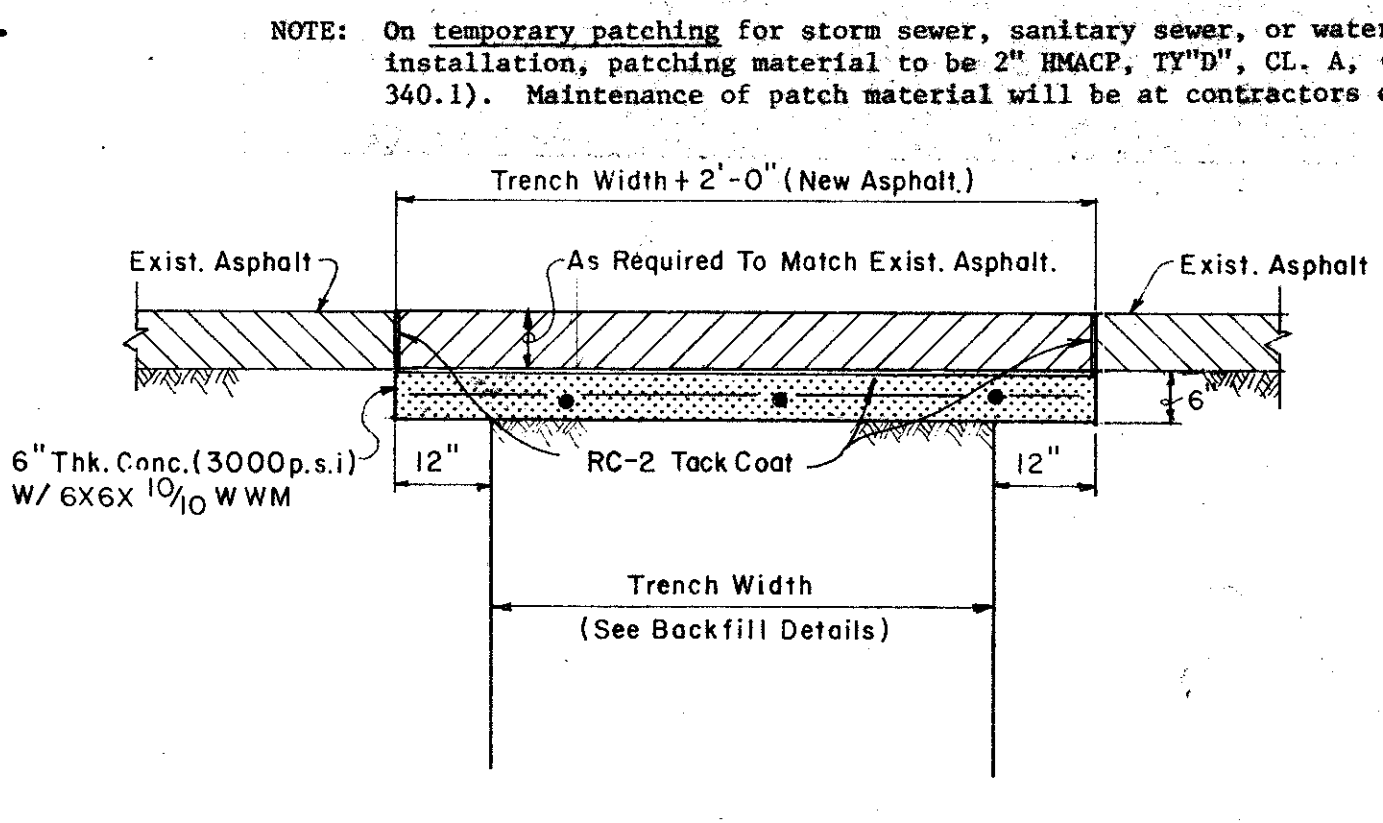
TYPICAL "LOWERING" DETAIL



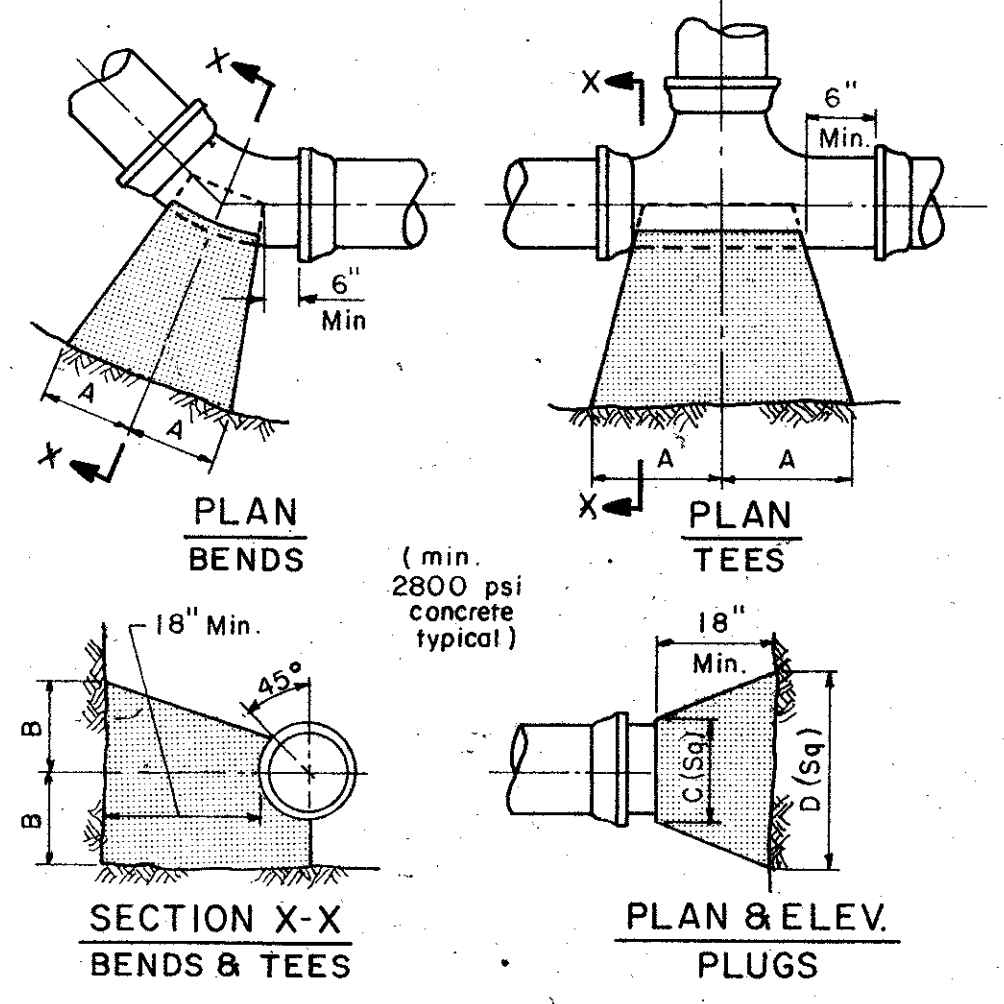
CONC. COLLAR DETAIL



TYP. CONC. PAVEMENT REPLACEMENT DETAIL



TYP. ASPHALT PAVEMENT REPLACEMENT DETAIL



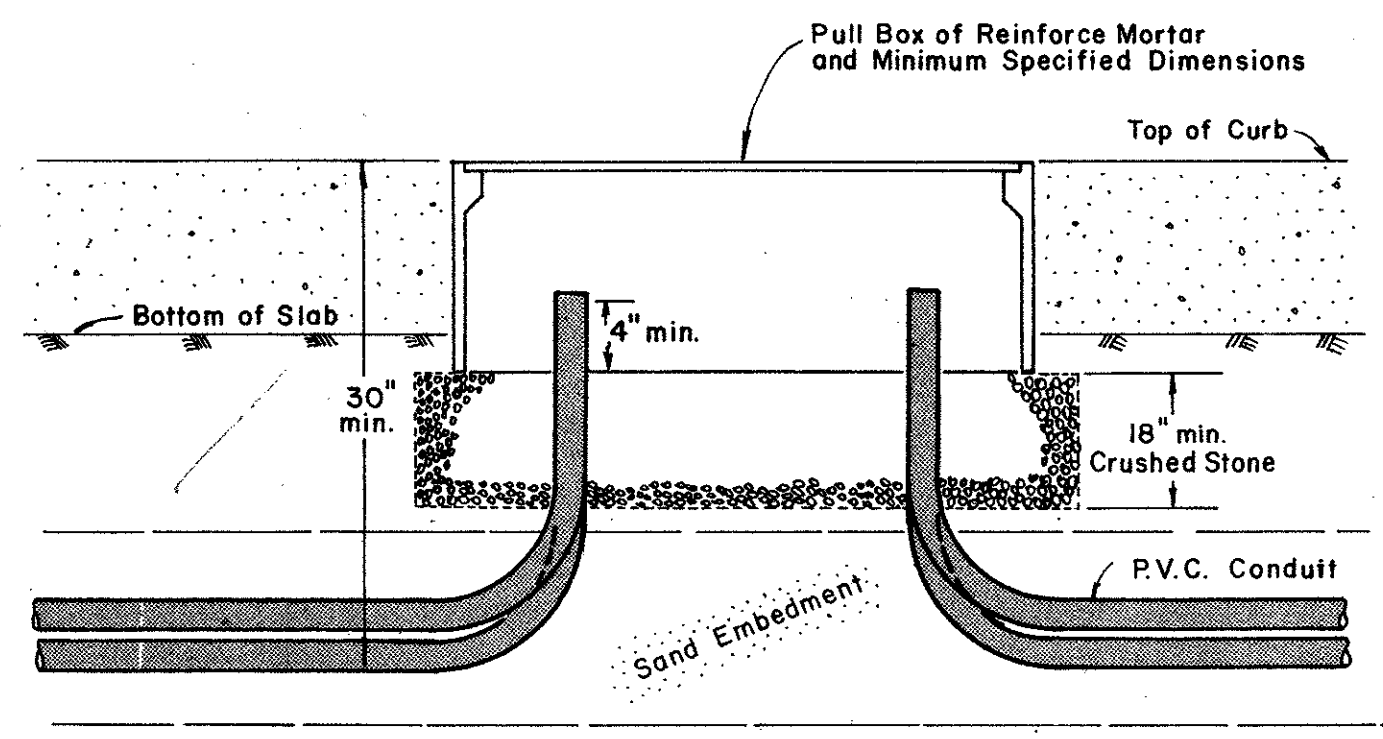
SOIL SIZE	BEND SIZE	1/4 BEND				1/2 BEND				TEE				PLUG
		A	B	A	B	A	B	A	B	C	D			
4000 PSF	8"	12"	12"	8"	10"	5"	9"	9"	12"	12"	20"			
2000 PSF	8"	22"	13"	12"	13"	8"	10"	13"	13"	12"	29"			

CITY OF ADDISON
DALLAS COUNTY, TEXAS
ARAPAHO ROAD/ QUORUM DRIVE

MISC. DETAILS

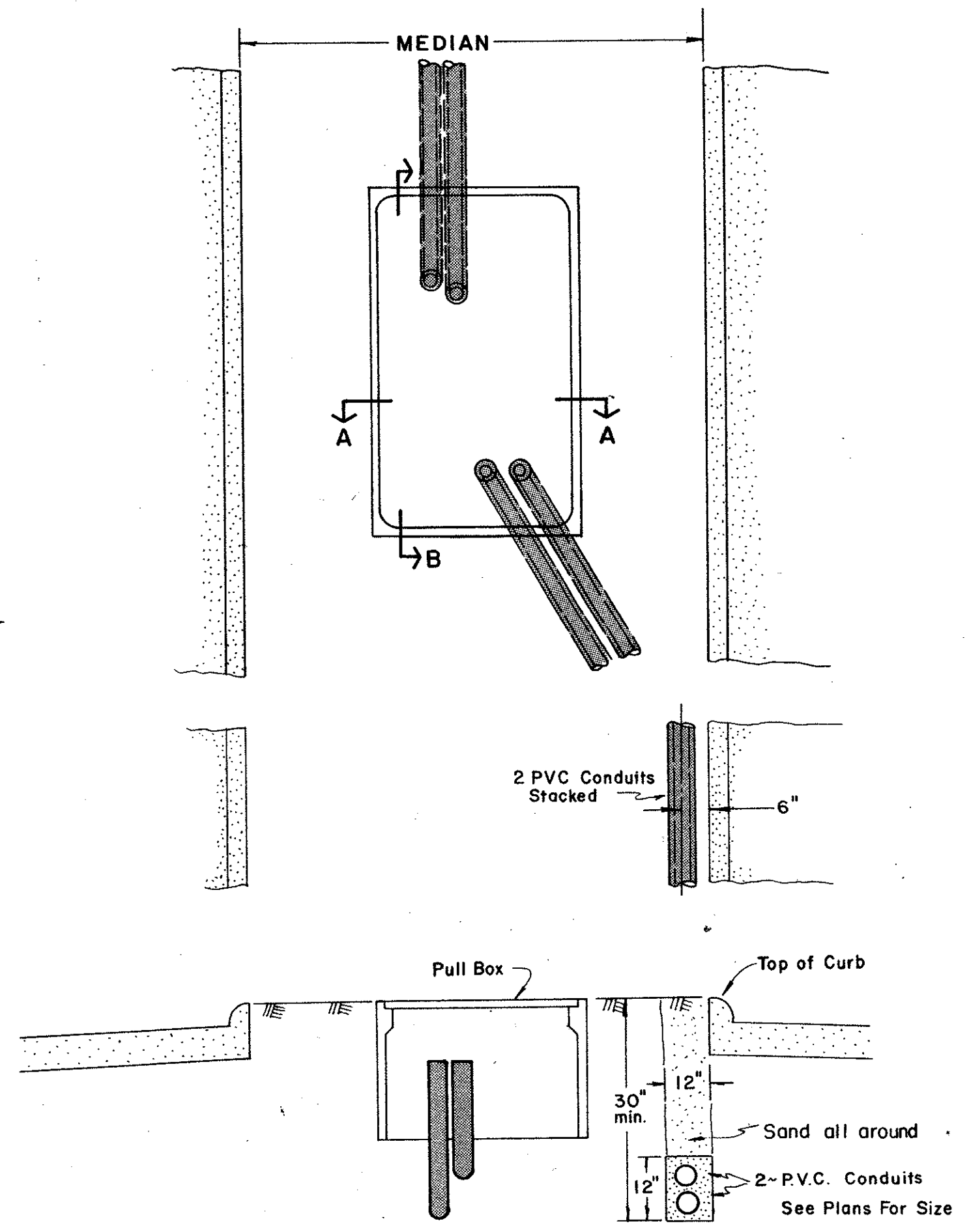
GINN, INC.
Consulting Engineers - Dallas, Texas

DESIGNED: W.K. DRAWN: S.M.M. DATE: DECEMBER, 1963
APPROVED: H.W.G. CHECKED: G.F. SCALE: AS SHOWN SHEET 26 OF 28

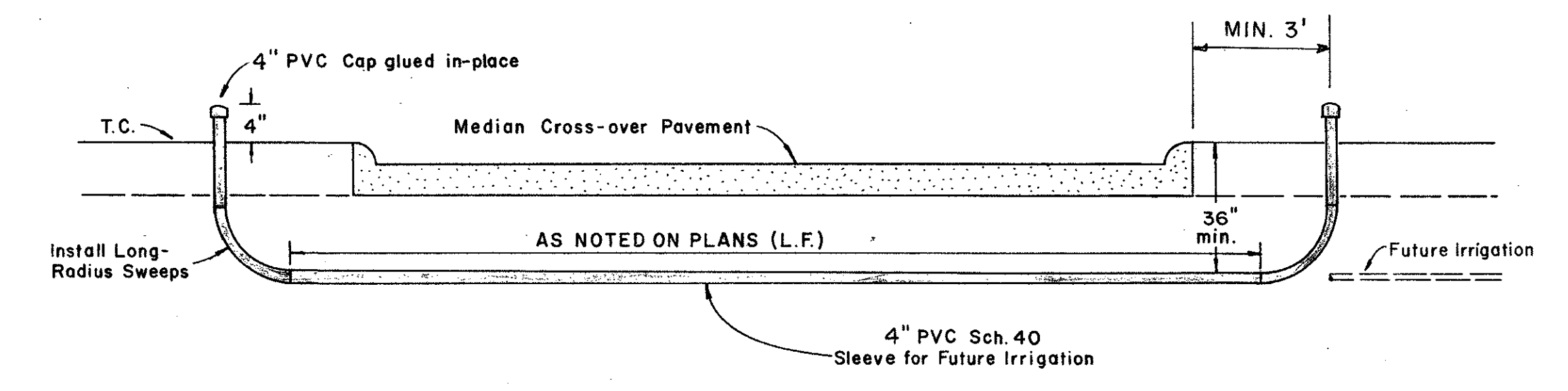


SECT. B-B

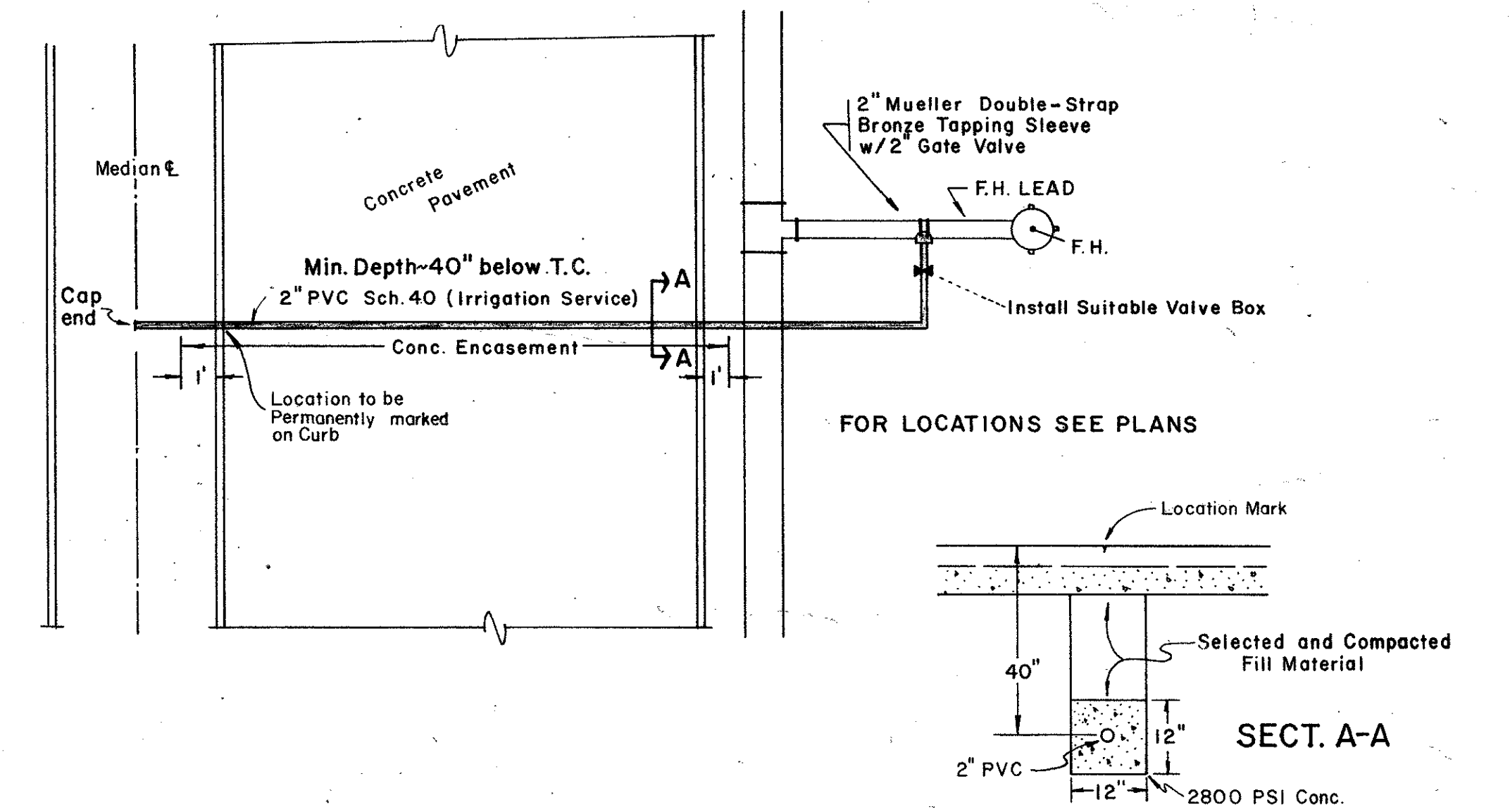
PULL BOX & CONDUIT DETAIL



SECT. A-A

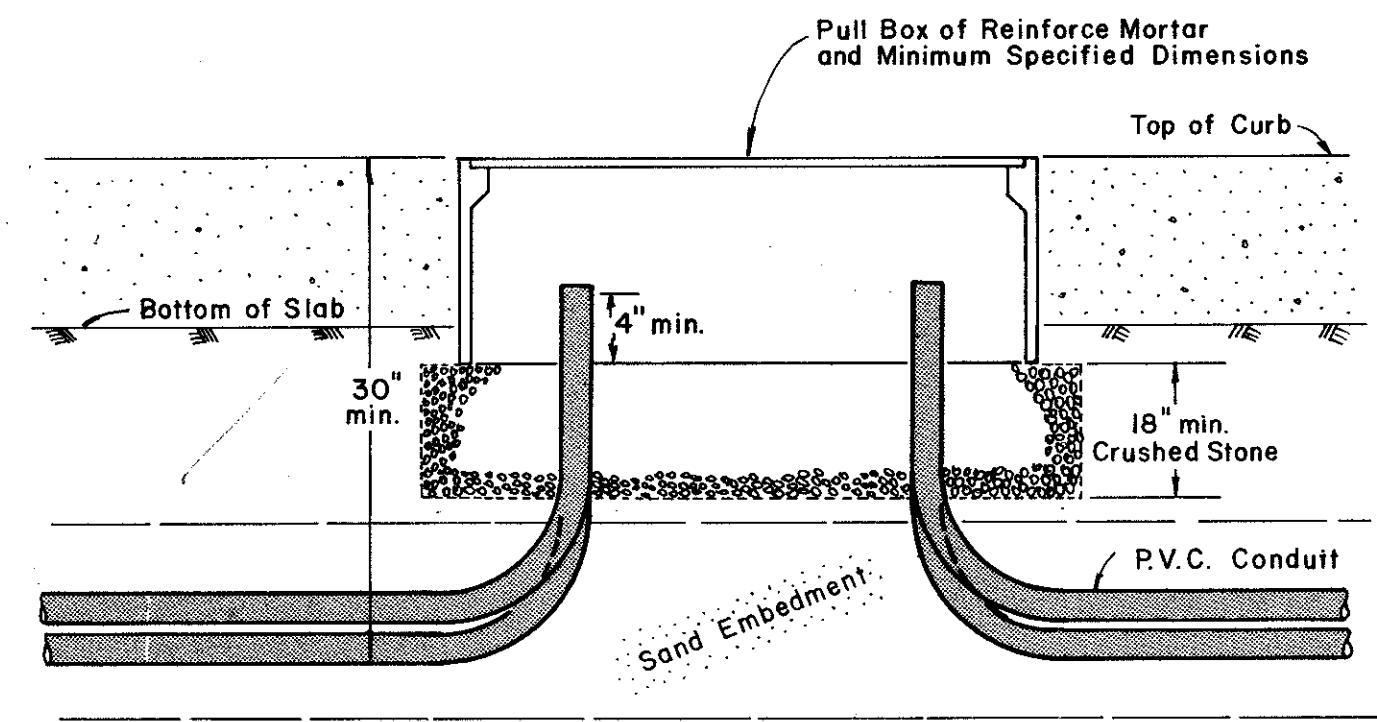


PVC SLEEVE FOR FUTURE IRRIGATION



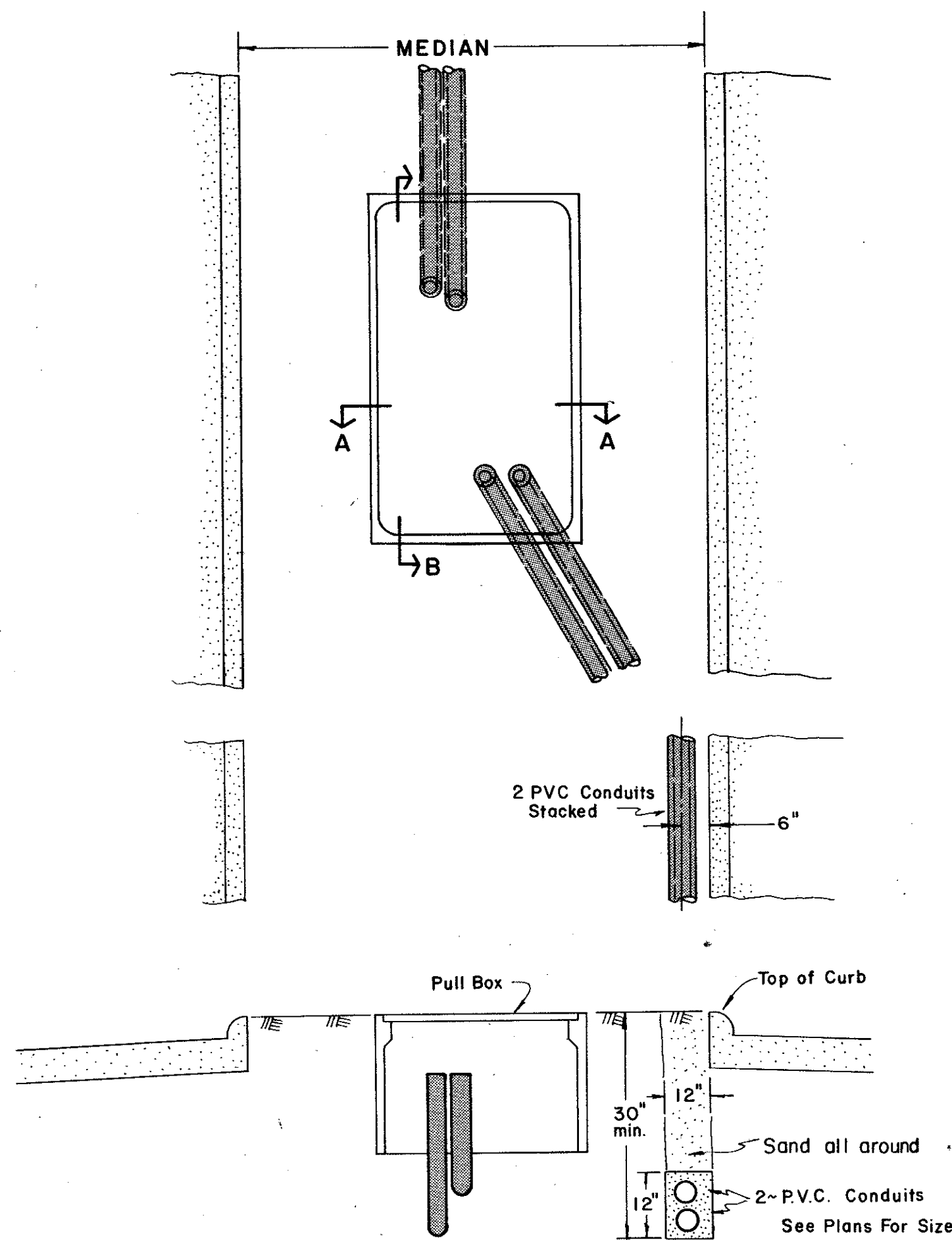
WATER SERVICE FOR MEDIANS

NO.	REVISION	BY	DATE
CITY OF ADDISON DALLAS COUNTY, TEXAS ARAPAHO ROAD/ QUORUM DRIVE			
MISC. DETAILS			
GINN, INC. Consulting Engineers - Dallas, Texas			
DESIGNED	DRAWN R.G.B.	DATE DECEMBER, 1983	FILE J-177
APPROVED G.F.	CHECKED G.F.	SCALE NONE	SHEET 22 OF 22

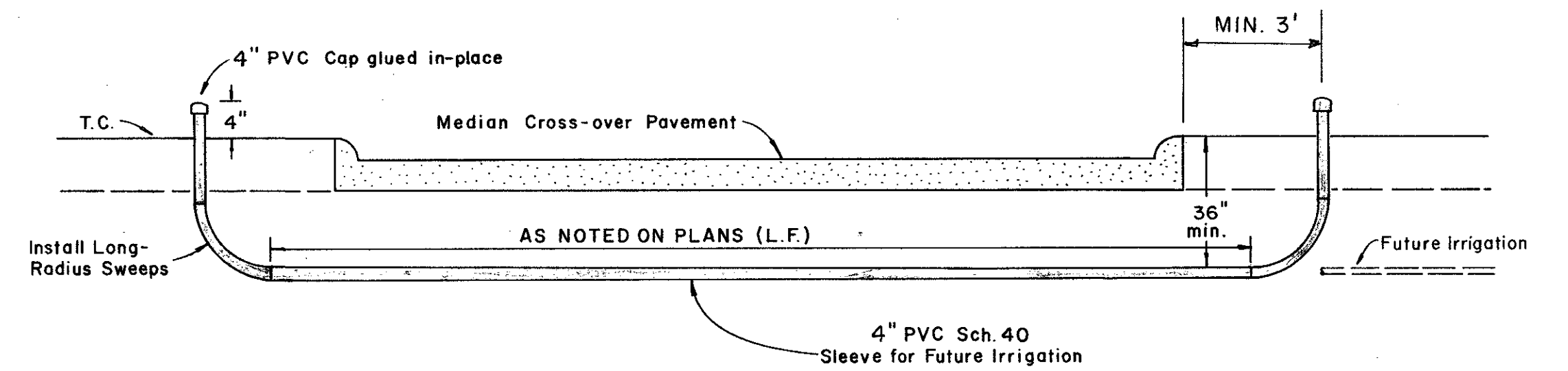


SECT. B-B

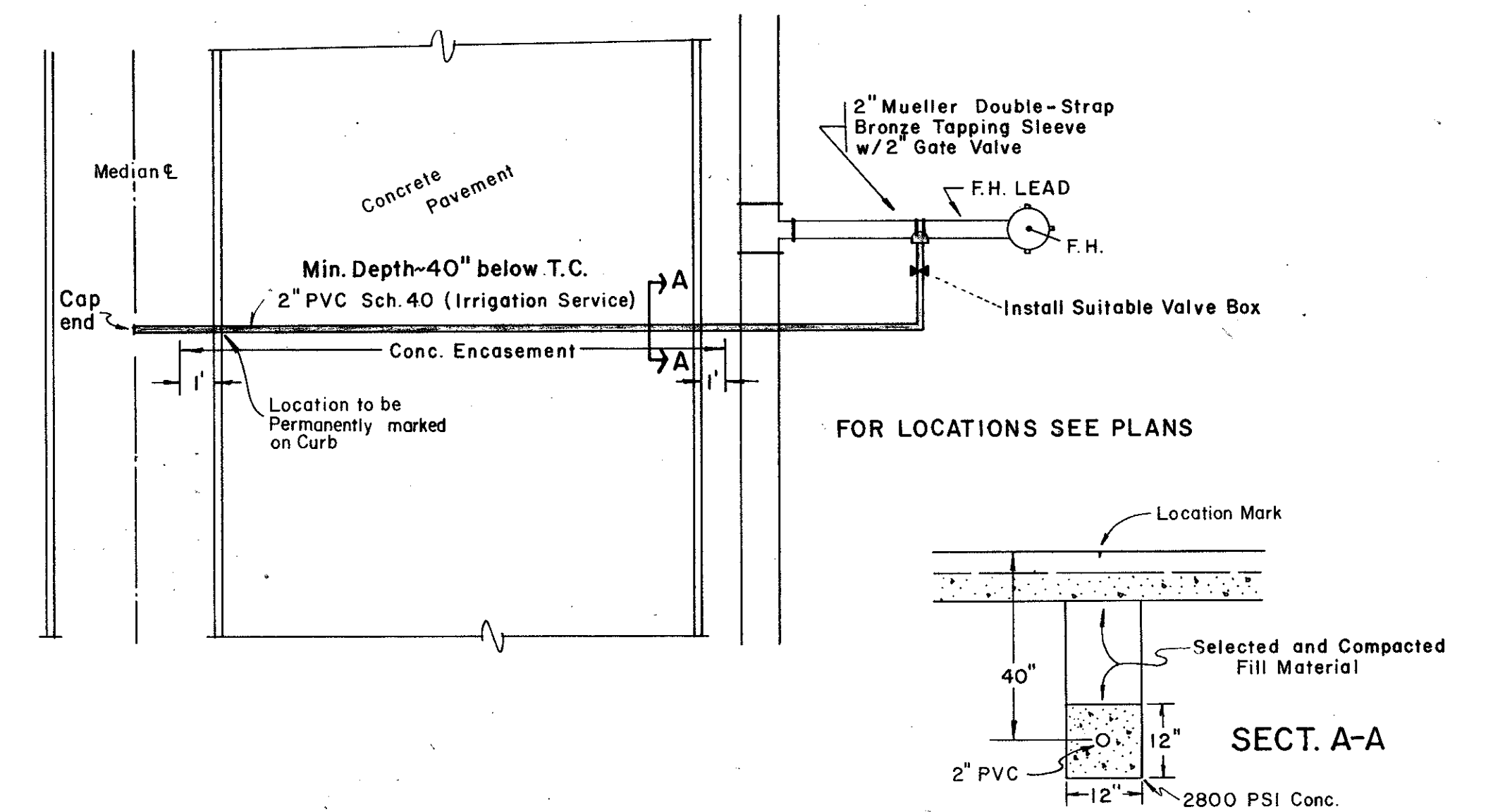
PULL BOX & CONDUIT DETAIL



SECT. A-A



PVC SLEEVE FOR FUTURE IRRIGATION



WATER SERVICE FOR MEDIANS

NO.	REVISION	BY	DATE
CITY OF ADDISON DALLAS COUNTY, TEXAS			
ARAPAHO ROAD/QUORUM DRIVE			
MISC. DETAILS			
GINN, INC. Consulting Engineers - Dallas, Texas			
DESIGNED	DRAWN R.G.B.	DATE DECEMBER, 1983	FILE J-177
APPROVED G.F.	CHECKED G.F.	SCALE NONE	SHEET 22 OF 22