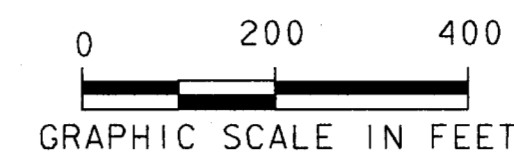


INDEX OF SHEETS

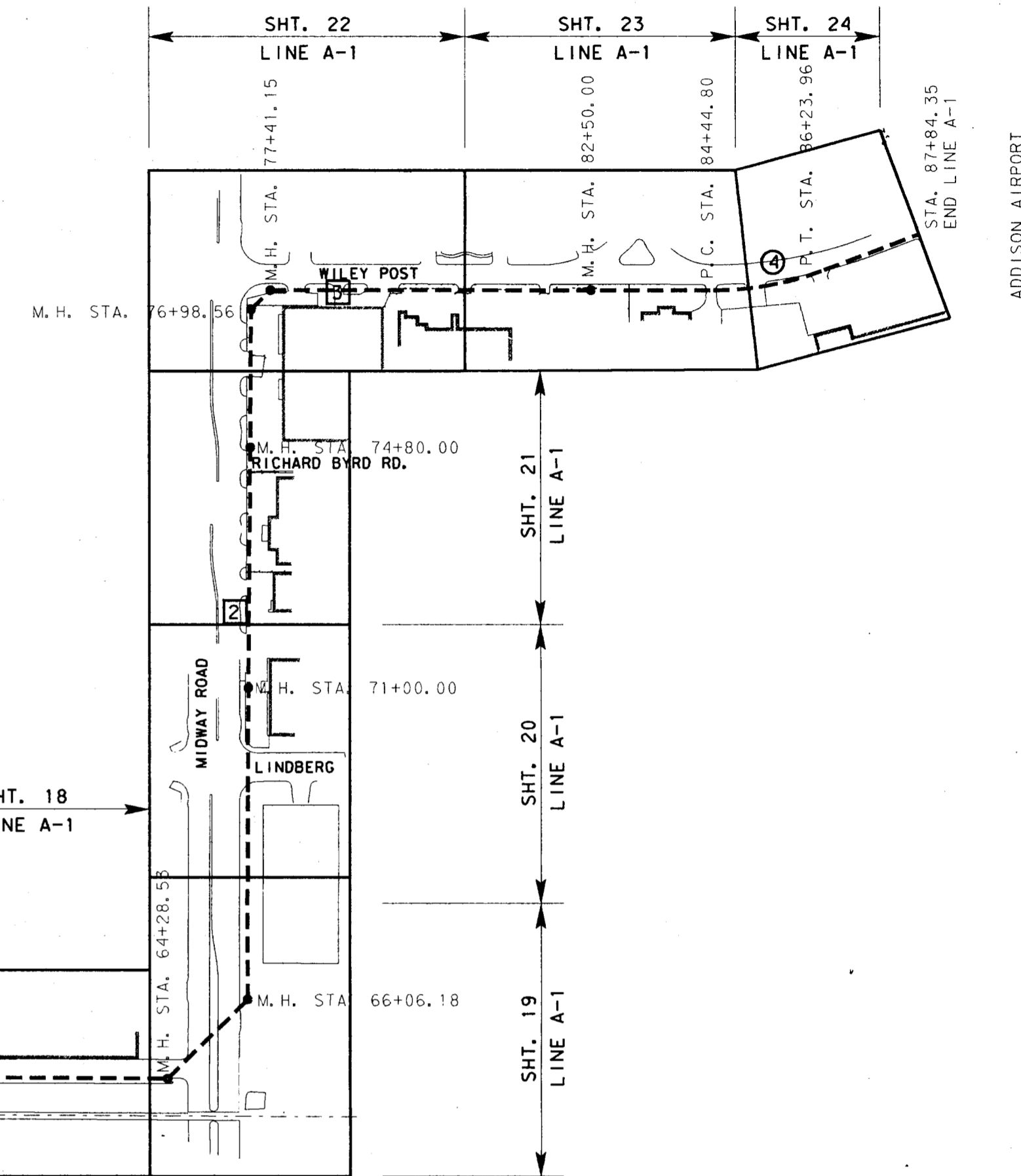
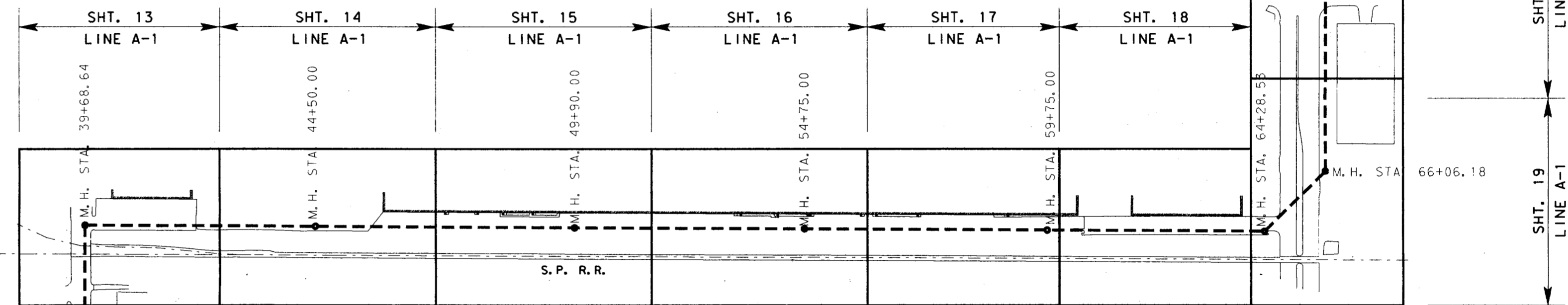
SHEET NO.	DRAWING TITLE
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2	INDEX AND SHEET LAYOUT LINES A-1 & A-3
3	SHEET LAYOUT LINES A-2, B & C
4	GENERAL NOTES
5	PLAN & PROFILE STA. 0+00 TO 4+50 LINE A-1
6	PLAN & PROFILE STA. 4+50 TO 9+00 LINE A-1
7	PLAN & PROFILE STA. 9+00 TO 13+50 LINE A-1
8	PLAN & PROFILE STA. 13+50 TO 18+00 LINE A-1
9	PLAN & PROFILE STA. 18+00 TO 22+50 LINE A-1
10	PLAN & PROFILE STA. 0+00 TO 1+29.50 LINE A-3
11	PLAN & PROFILE STA. 22+50 TO 27+00 LINE A-1
12	PLAN & PROFILE STA. 27+00 TO 31+00 LINE A-1
13	PLAN & PROFILE STA. 31+00 TO 34+50 LINE A-1
14	PLAN & PROFILE STA. 34+50 TO 38+00 LINE A-1
15	PLAN & PROFILE STA. 38+00 TO 42+50 LINE A-1
16	PLAN & PROFILE STA. 42+50 TO 47+00 LINE A-1
17	PLAN & PROFILE STA. 47+00 TO 51+50 LINE A-1
18	PLAN & PROFILE STA. 51+50 TO 56+00 LINE A-1
19	PLAN & PROFILE STA. 56+00 TO 60+00 LINE A-1
20	PLAN & PROFILE STA. 60+00 TO 64+00 LINE A-1
21	PLAN & PROFILE STA. 64+00 TO 68+00 LINE A-1
22	PLAN & PROFILE STA. 68+00 TO 72+00 LINE A-1
23	PLAN & PROFILE STA. 72+00 TO 76+00 LINE A-1
24	PLAN & PROFILE STA. 76+00 TO 80+50 LINE A-1
25	PLAN & PROFILE STA. 80+50 TO 85+00 LINE A-1
26	PLAN & PROFILE STA. 85+00 TO 87+84.35 LINE A-1
27	PLAN & PROFILE STA. 115+37.35 TO 119+50 LINE A-2
28	PLAN & PROFILE STA. 119+50 TO 124+00 LINE A-2
29	PLAN & PROFILE STA. 124+00 TO 128+50 LINE A-2
30	PLAN & PROFILE STA. 128+50 TO 132+00 LINE A-2
31	PLAN & PROFILE STA. 132+00 TO 136+50 LINE A-2
32	PLAN & PROFILE STA. 136+50 TO 139+95.27 LINE A-2
33	PLAN & PROFILE STA. 0+90 TO 5+00 LINE B
34	PLAN & PROFILE STA. 5+00 TO 9+00 LINE B
35	PLAN & PROFILE STA. 9+00 TO 13+50 LINE B
36	PLAN & PROFILE STA. 13+50 TO 17+68.31 LINE B
37	PLAN & PROFILE STA. 0+00 TO 3+37.66 LINE C
38	SANITARY SEWER DETAILS - SHEET 1
39	SANITARY SEWER DETAILS - SHEET 2
40	ABANDONMENT DETAIL SHEET
41	LIFT STATION SITE & GRADING PLAN
42	LIFT STATION - FLOOR PLAN
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63	LIFT STATION - LANDSCAPE ARCHITECTURAL DETAILS
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65	LIFT STATION - IRRIGATION DETAILS

BENCH MARKS

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SQUARE BOX CUT IN NOSE OF MEDIAN IN CENTERLINE BELTLINE DRIVE APPROXIMATELY 50 FEET EAST OF CENTERLINE INTERSECTION WITH MARSH LANE. ELEVATION - 571.24
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"X" CUT IN BRAK-O PARKING LOT APPROXIMATELY 16 FEET EAST OF THE EAST RECESSED CURB LINE OF MIDWAY RD. AND APPROXIMATELY 550 FEET SOUTH OF THE CENTERLINE INTERSECTION OF WILEY POST RD. AND MIDWAY RD. ELEVATION - 624.95
- 3 BM NO. P100
"X" CUT IN CONCRETE ENTRANCE OF PARKING LOT SOUTH SIDE OF WILEY POST ROAD APPROXIMATELY 280 FEET EAST OF THE CENTERLINE OF MIDWAY ROAD. ELEVATION - 635.26

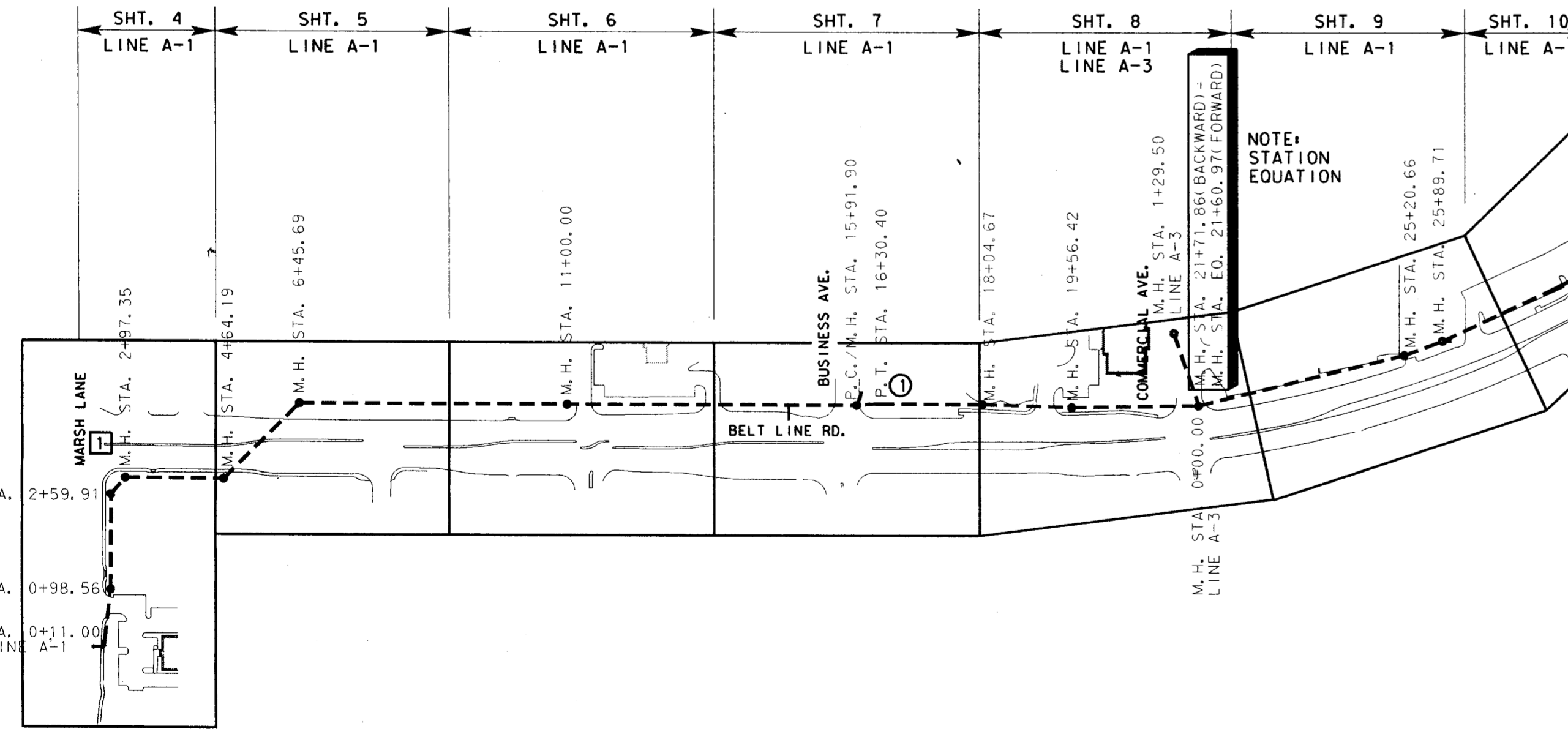


CURVE NO.	Δ	R	T	L
1	4° 24' 46"	500.00'	19.26'	38.50'
2	5° 16' 16"	300.00'	13.81'	27.60'
3	6° 25' 01"	300.00'	16.82'	33.60'
4	20° 31' 49"	500.00'	90.56'	179.16'



STATION	POINT	COORDINATES	
		NORTHING	EASTING
0+11.00	BEGIN PIPE	468255.23	2197768.81
0+98.56	M. H.	468342.09	2197779.85
2+59.91	M. H.	468503.44	2197779.79
2+97.35	M. H.	468531.59	2197804.47
4+64.19	M. H.	468531.14	2197971.31
6+45.69	M. H.	468659.48	2198099.65
11+00.00	M. H.	468658.76	2198553.96
15+91.90	M. H./P. C.	468657.97	2199045.86
16+30.40	P. T.	468660.30	2199084.28
18+04.67	M. H.	468659.78	2199258.55
19+56.42	M. H.	468654.77	2199410.21
21+71.86	M. H.	468657.50	2199625.63
21+60.97	M. H./STA. EQ.	468657.50	2199625.63
25+20.66	M. H.	468743.17	2199974.98
25+89.71	M. H.	468767.27	2200039.68
29+51.57	M. H.	468924.43	2200365.63
30+50.78	M. H./P. C./STA. EQ.	469105.72	2200448.23
31+41.41	M. H./P. C.	469105.72	2200448.23
31+69.01	P. T.	469133.25	2200446.52
32+48.66	P. C.	469212.44	2200437.95
32+82.26	P. T.	469245.98	2200436.20
35+72.53	M. H.	469536.24	2200437.38
36+82.90	M. H.	469646.39	2200430.32
39+68.64	M. H.	469932.13	2200431.51
44+50.00	M. H.	469929.66	2200912.87
49+90.00	M. H.	469926.83	2201452.86
54+75.00	M. H.	469924.42	2201931.34
59+75.00	M. H.	469921.82	2202437.84
64+28.53	M. H.	469919.49	2202891.37
66+06.18	M. H.	470044.46	2203017.63
71+00.00	M. H.	470538.27	2203020.00
74+80.00	M. H.	470918.27	2203023.32
76+98.56	M. H.	471136.82	2203025.06
77+41.15	M. H.	4471166.79	2203055.17
82+50.00	M. H.	471166.50	2203564.03
84+44.80	P. C.	471166.35	2203758.82
86+23.96	P. T.	471198.00	2203934.20
87+84.35	END	471254.15	2204084.44

STATION	POINT	COORDINATES	
		NORTHING	EASTING
0+00.00	M. H.	468657.50	2199625.63
1+29.50	M. H.	468780.13	2199584.01



NO.	DATE	REVISION	APPROV.
4			
3	9-4-98	AS BUILT DRAWING	J. H. L.
2	10-29-98	REVISED MANHOLE LOCATION	J. H. L.
1			

TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 INDEX AND SHEET LAYOUT
 LINES A-1 AND A-3

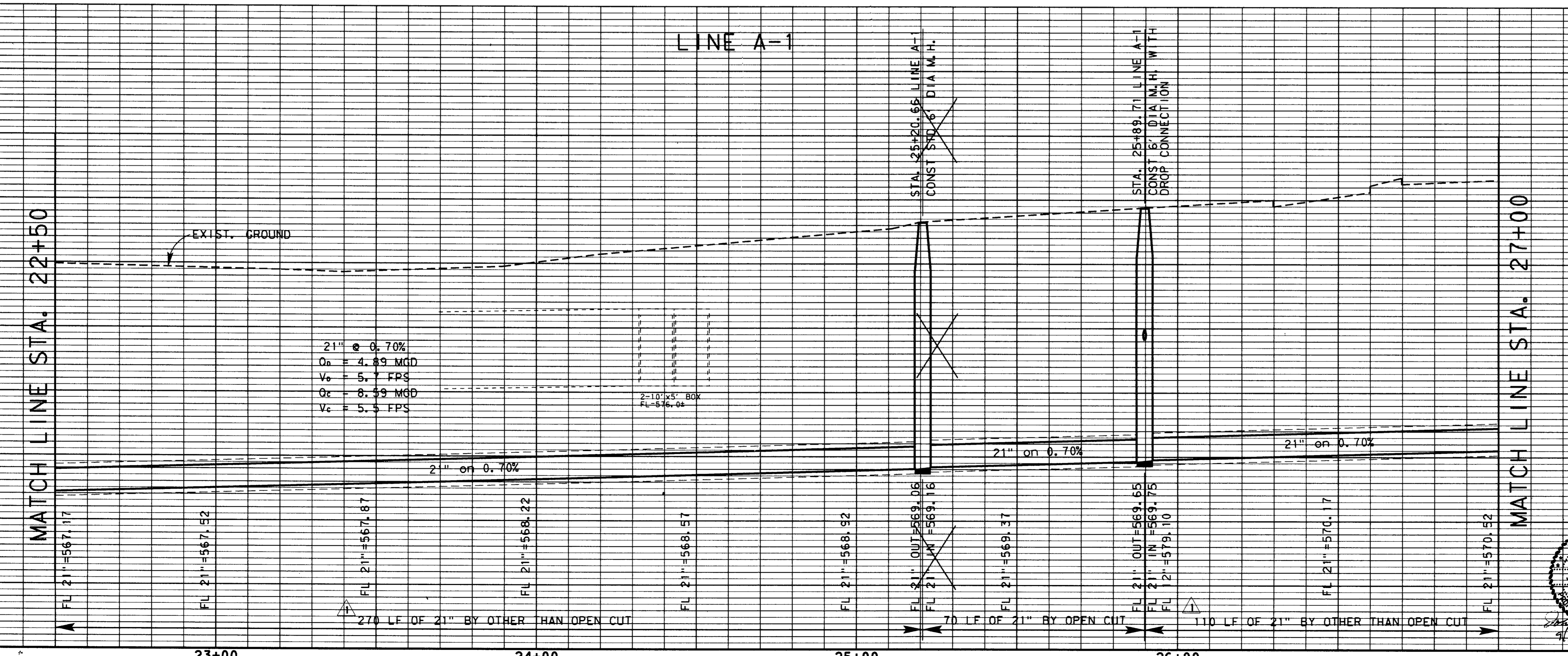
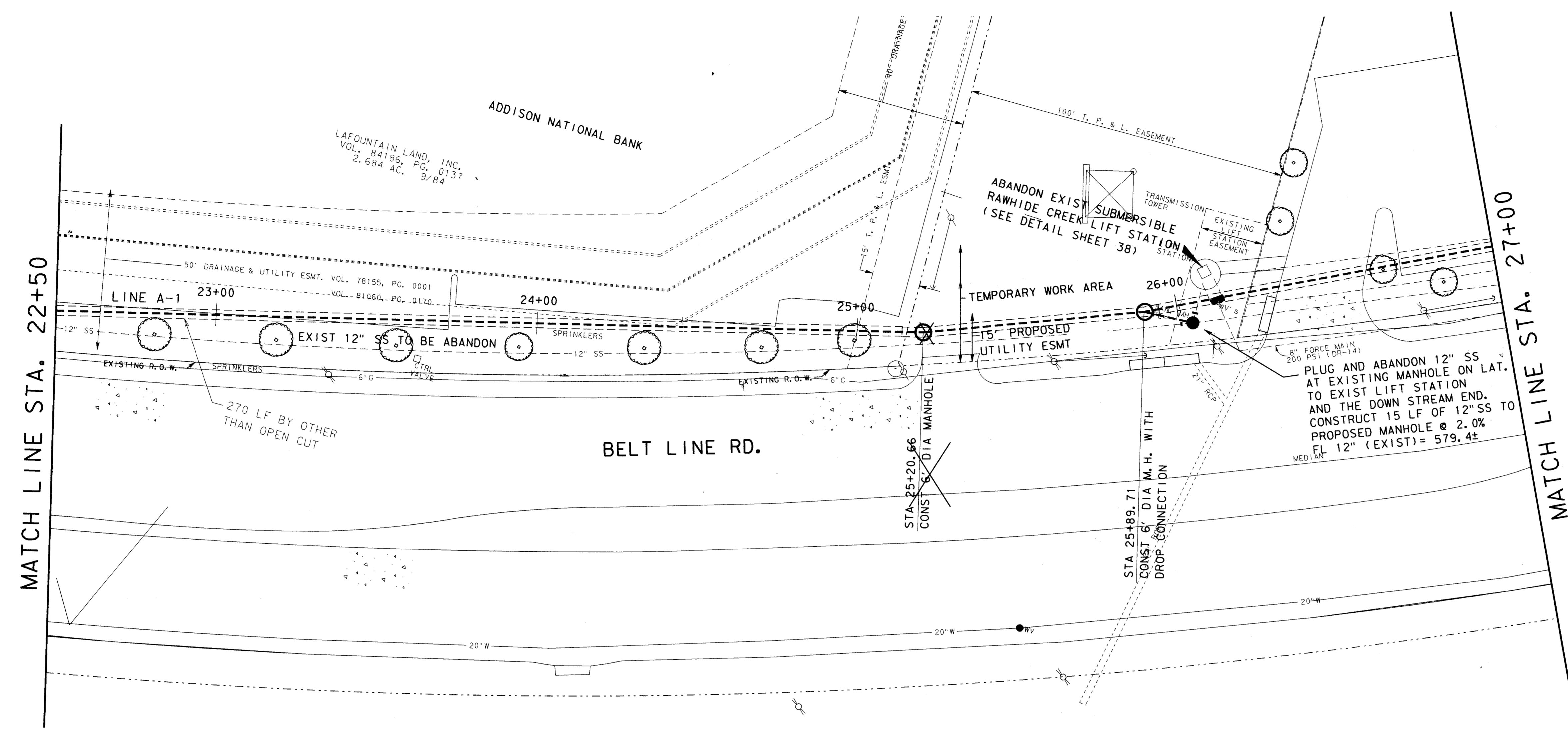


Consultants in Engineering, Architecture,
 Planning and the Environment
 CARTER & BURGESS, INC.
 7950 EMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961

Unit	Scale	1"=200'	Date	04-05-96	
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	1 of 63

STATE OF TEXAS
 JOHN H. LINDNER
 64694
 REGISTERED PROFESSIONAL ENGINEER
 10/30/96

REVISIONS
 NO. DATE BY
 1 4-23-96 J.H.L.
 2 9-4-98 J.H.L.
 3
 4



NO.	DATE	REVISION	APPROV.
4			
3			
2	9-4-98	AS BUILT DRAWING	J. H. L.
1	4-23-96	ADDENDUM NO. 1	J. H. L.

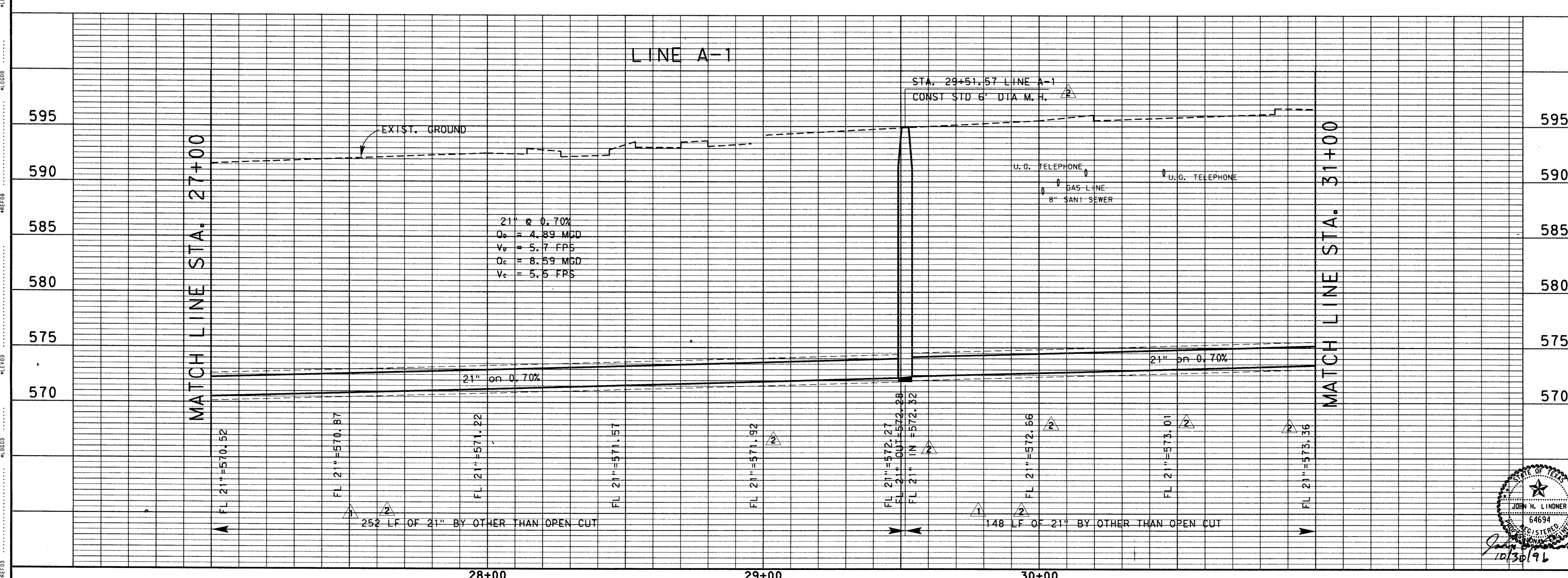
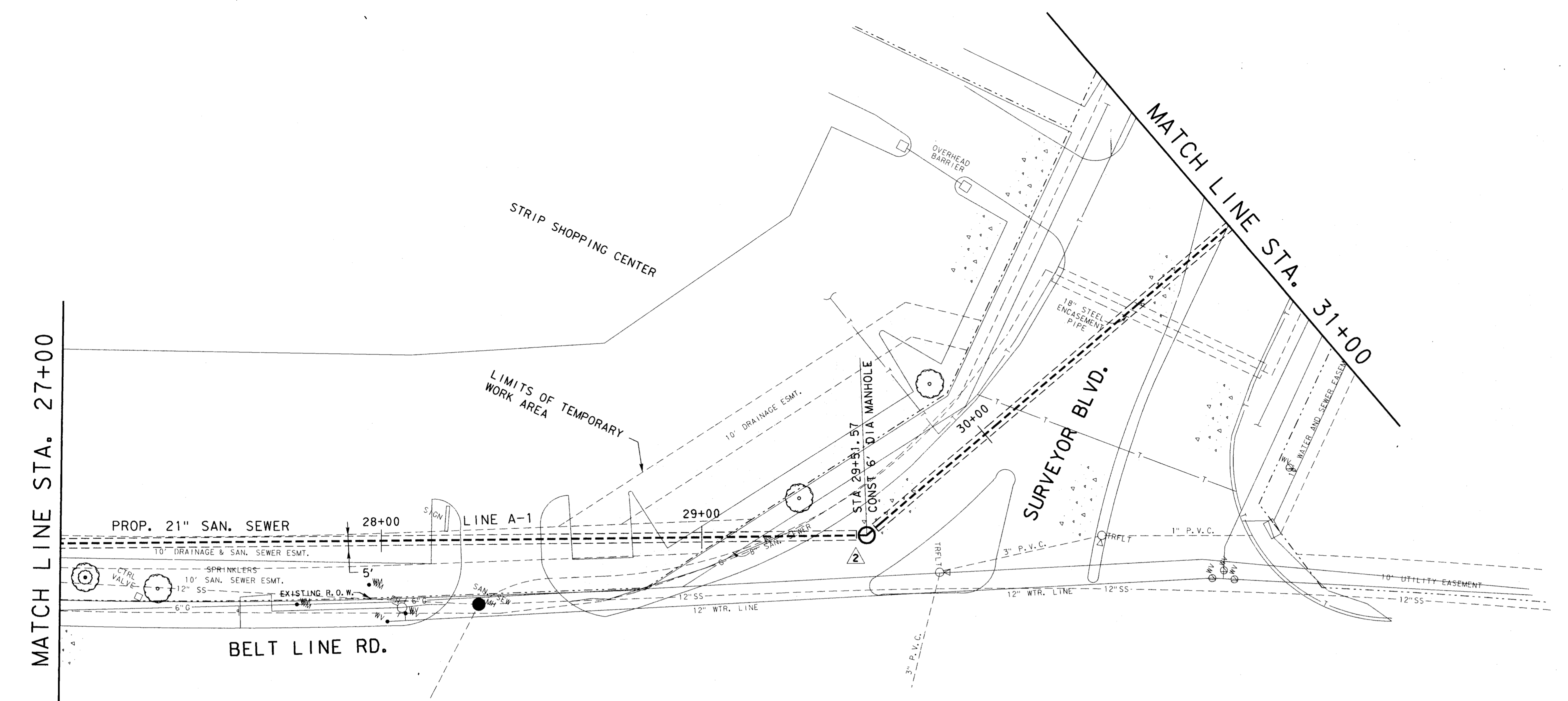
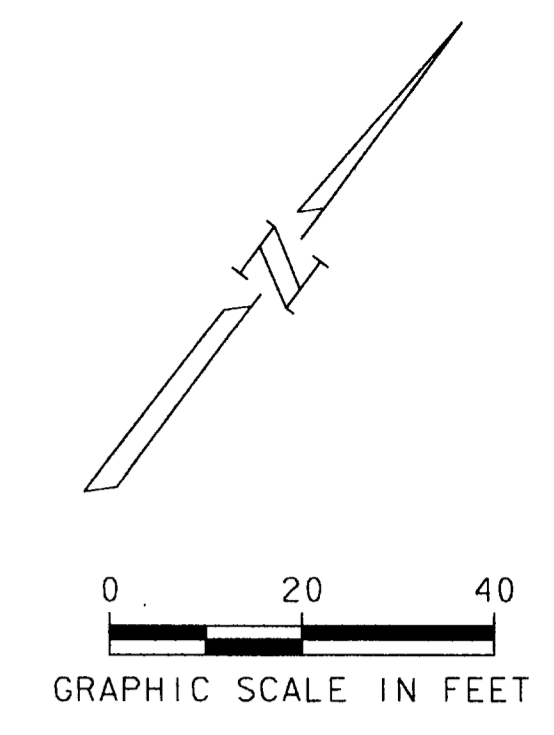
TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LINE A-1
 FROM STATION 22+50 TO STATION 27+00

Carter Burgess
 Consultants in Engineering, Architecture,
 Planning and the Environment
 JOHN H. LINDNER
 7500 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961

Unit	Scale	Hor. 1"=20'	Vert. 1"=5'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	9 of 63

32765506.DGN

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JOHN H. LINDNER, P.E. 64694, IN MARCH 1997.
 ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. 01-2607



NO.	DATE	REVISION	APPROV.
4			
3	9-4-98	AS BUILT DRAWING	J. H. L.
2	10-29-96	REVISED MANHOLE LOCATION	J. H. L.
1	4-23-96	ADDENDUM NO. 1	J. H. L.

TOWN OF ADDISON, TEXAS
MIDWAY/BELTLINE SANITARY SEWER
PHASE II
LINE A-1
FROM STATION 27+00 TO STATION 31+00

Carter Burgess
Consultants in Engineering, Architecture,
Planning and the Environment.
CARTER & BURGESS, INC.
7950 ELMBROOK DRIVE, SUITE 250
DALLAS, TX 75247-4961

JOHN H. LINDNER
REGISTERED PROFESSIONAL ENGINEER
54634
10/30/96

Unit	Scale	Hor'lz. 1"=20'	Vert. 1"=5'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	10 of 63

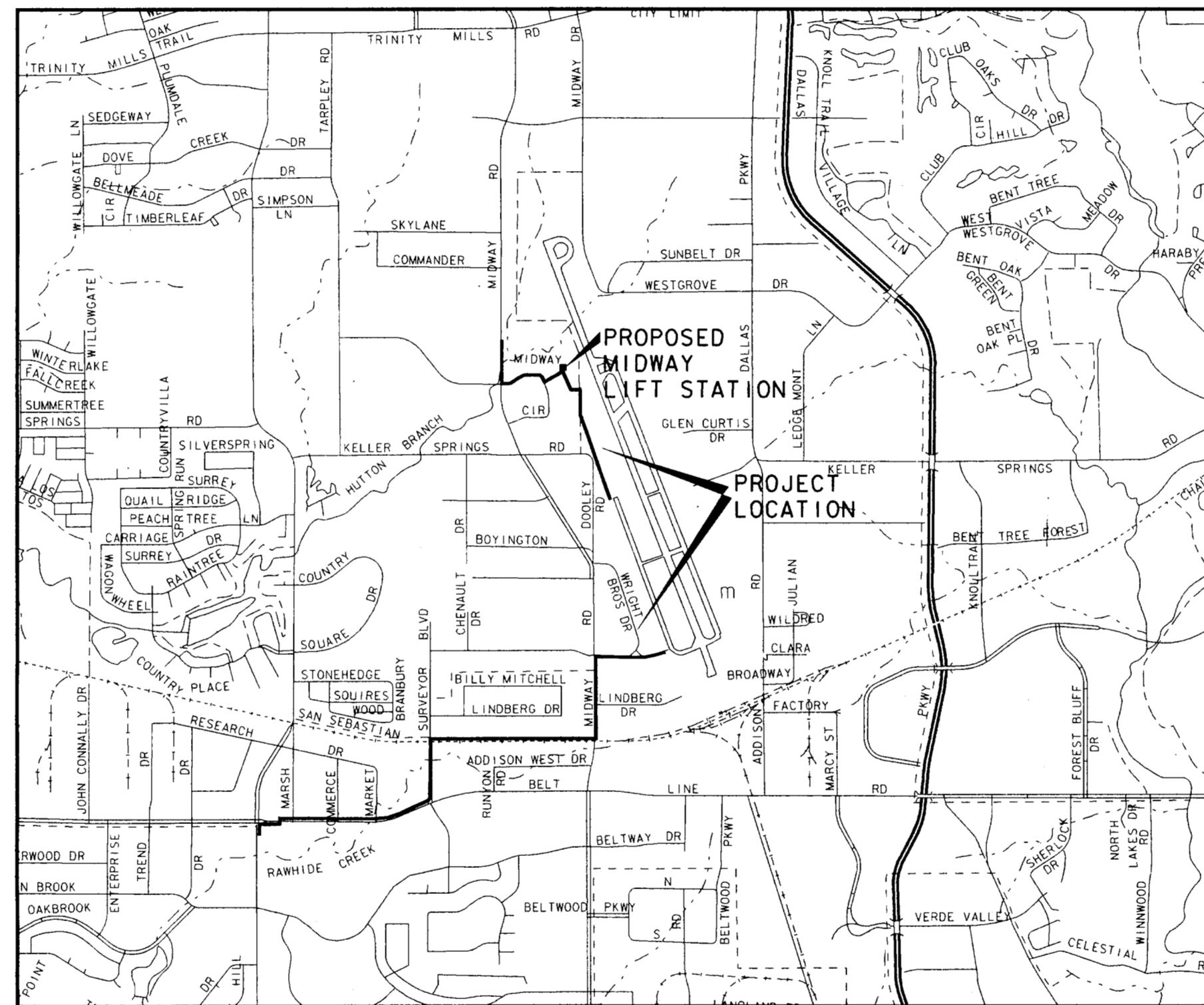
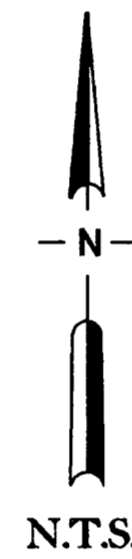
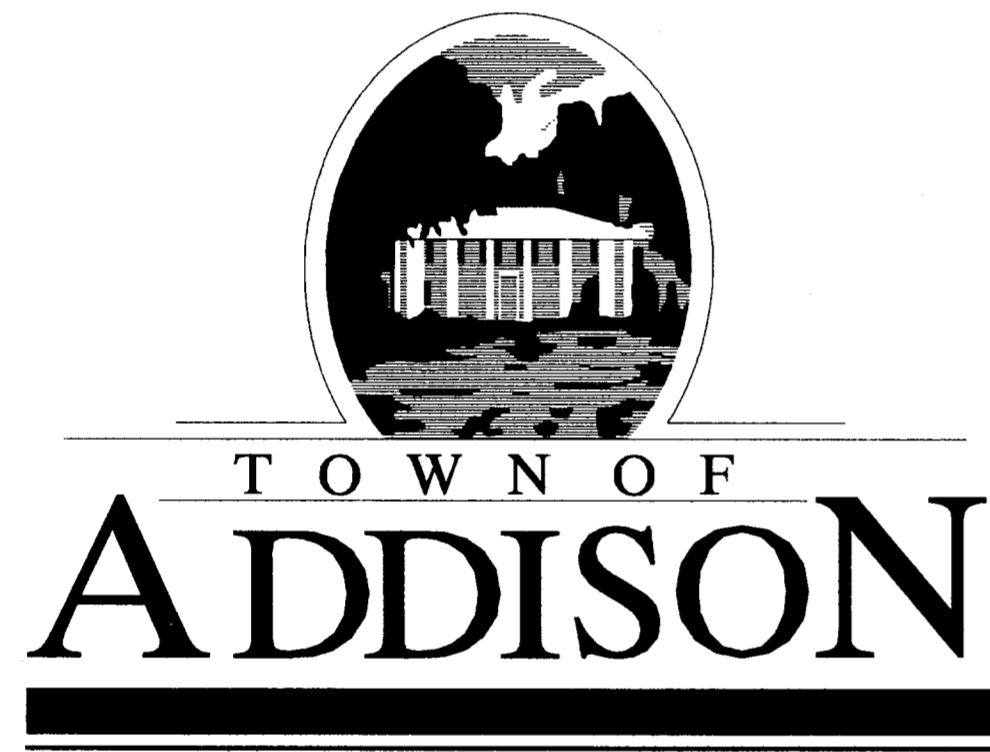
TOWN OF ADDISON, TEXAS

MIDWAY/BELT LINE SEWER IMPROVEMENTS

PHASE II

FROM MARSH LANE & BELTLINE RD. TO ADDISON AIRPORT

APRIL 5, 1996



VICINITY MAP

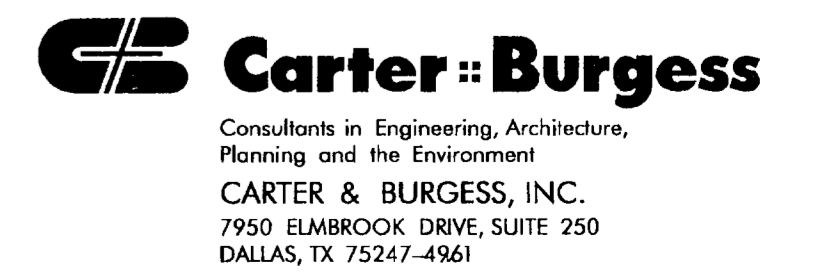
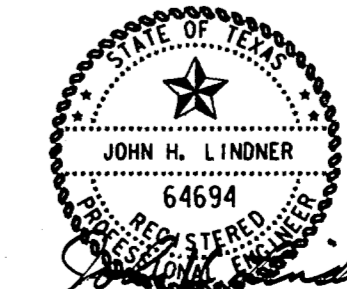
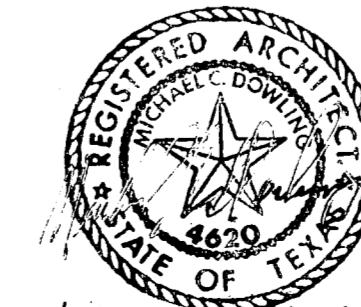
SUBMITTED BY:

CARTER & BURGESS, INC. *John H. Lindner* 6/12/96
John Lindner - Project Manager Date

APPROVED BY:

TOWN OF ADDISON *John Baumgartner* - Director of Public Works Date

SEWER IMPROVEMENTS
 FROM MARSH LANE & BELTLINE RD.
 TO ADDISON AIRPORT
 APRIL 5, 1996

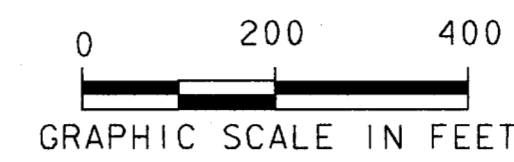


INDEX OF SHEETS

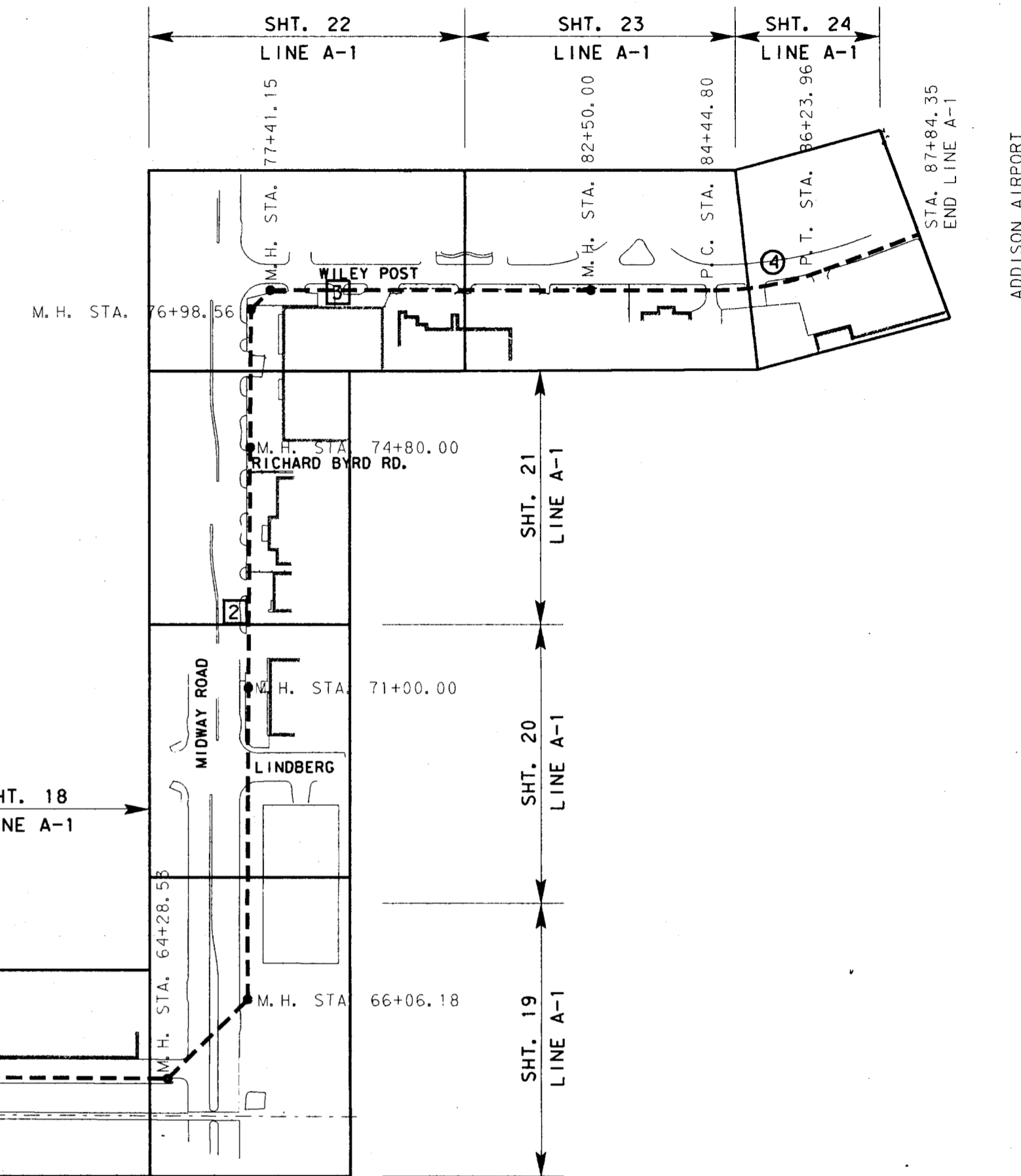
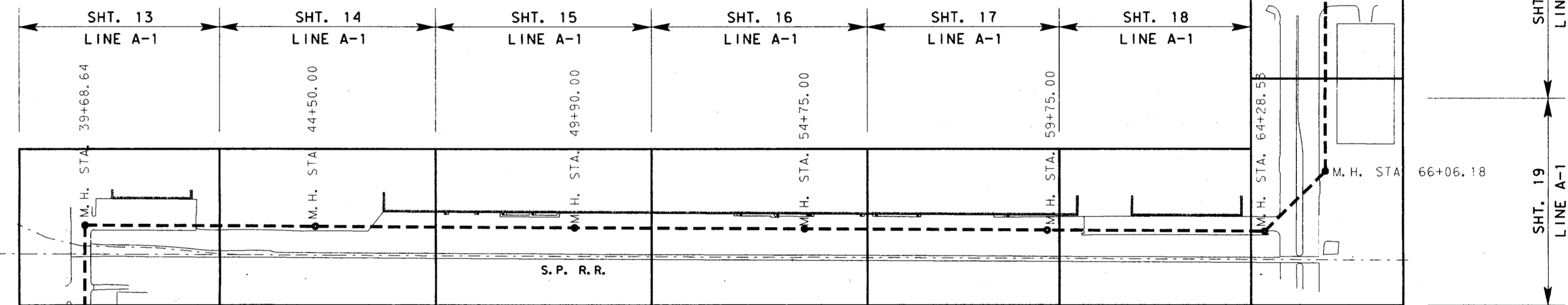
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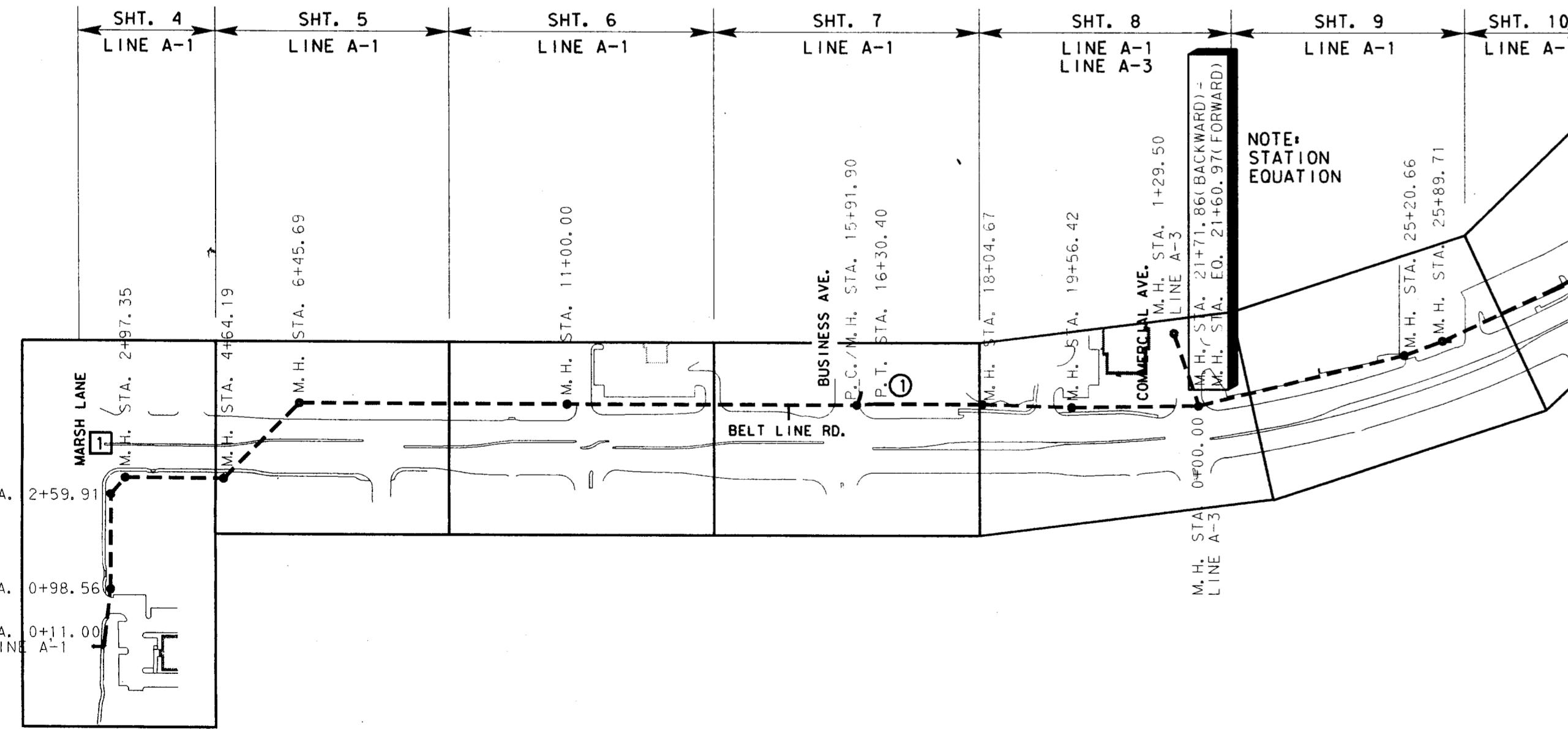


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2+59.91	M. H.	468503.44	2197779.79
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6+45.69	M. H.	468659.48	2198099.65
11+00.00	M. H.	468658.76	2198553.96
15+91.90	M. H./P. C.	468657.97	2199045.86
16+30.40	P. T.	468660.30	2199084.28
18+04.67	M. H.	468659.78	2199258.55
19+56.42	M. H.	468654.77	2199410.21
21+71.86	M. H.	468657.50	2199625.63
21+60.97	M. H./STA. EQ.	468657.50	2199625.63
25+20.66	M. H.	468743.17	2199974.98
25+89.71	M. H.	468767.27	2200039.68
29+51.57	M. H.	468924.43	2200365.63
30+50.78	M. H./P. C./STA. EQ.	469105.72	2200448.23
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36+82.90	M. H.	469646.39	2200430.32
39+68.64	M. H.	469932.13	2200431.51
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59+75.00	M. H.	469921.82	2202437.84
64+28.53	M. H.	469919.49	2202891.37
66+06.18	M. H.	470044.46	2203017.63
71+00.00	M. H.	470538.27	2203020.00
74+80.00	M. H.	470918.27	2203023.32
76+98.56	M. H.	471136.82	2203025.06
77+41.15	M. H.	4471166.79	2203055.17
82+50.00	M. H.	471166.50	2203564.03
84+44.80	P. C.	471166.35	2203758.82
86+23.96	P. T.	471198.00	2203934.20
87+84.35	END	471254.15	2204084.44

STATION	POINT	COORDINATES	
		NORTHING	EASTING
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1+29.50	M. H.	468780.13	2199584.01



NO.	DATE	REVISION	APPROV.
4			
3	9-4-98	AS BUILT DRAWING	J. H. L.
2	10-29-98	REVISED MANHOLE LOCATION	J. H. L.
1			

TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 INDEX AND SHEET LAYOUT
 LINES A-1 AND A-3



Consultants in Engineering, Architecture,
 Planning and the Environment
 CARTER & BURGESS, INC.
 7950 EMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961

Unit	Scale	1" = 200'	Date	04-05-96	
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	1 of 63

STATE OF TEXAS
 JOHN H. LINDNER
 64694
 REGISTERED PROFESSIONAL ENGINEER
 10/30/96

BENCH MARKS

- 4] BM NO. P114
A 3/8" IRON ROD STAMPED "CARTER & BURGESS" APPROXIMATELY 1000 FEET NORTH OF THE CENTERLINE INTERSECTION OF WILEY POST RD. AND MIDWAY RD. AND APPROXIMATELY 3 FEET WEST OF THE WEST CURB LINE OF MIDWAY RD. ELEVATION - 642.97
- 5] BM NO. P105
A 3/8" IRON ROD STAMPED "CARTER & BURGESS" SITUATED ON ADDISON AIRPORT PROPERTY, APPROXIMATELY 225 FEET EAST OF THE CENTERLINE OF DOOLEY RD. AND APPROXIMATELY 200 FEET NORTH OF THE CENTERLINE OF KELLER SPRINGS RD. ELEVATION - 638.04
- 6] BM NO. 1000
SQUARE BOX CUT APPROXIMATELY 450 FEET NORTH OF THE CENTERLINE INTERSECTION OF MIDWAY RD. AND KELLWAY CIRCLE AND ON TOP OF EAST CURB LINE OF MIDWAY RD. ELEVATION - 607.10

☉ LINE A-2 SANITARY SEWER ALIGNMENT

STATION	POINT	COORDINATES	
		NORTHING	EASTING
1+37.35	P. I.	473800.21	2203175.96
2+96.79	P. I.	473957.94	2203155.02
11+74.13	P. I.	474778.66	2202844.94
18+52.46	P. I.	475456.98	2202845.20
19+47.08	P. I.	475490.50	2202756.72
21+52.00	P. I.	475490.50	2202551.80
24+98.53	P. I.	475808.05	2202413.06
25+52.43	P. I.	475827.72	2202362.87
25+93.68	P. I.	475827.69	2202413.06

☉ LINE B SANITARY SEWER ALIGNMENT

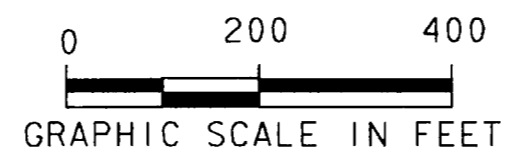
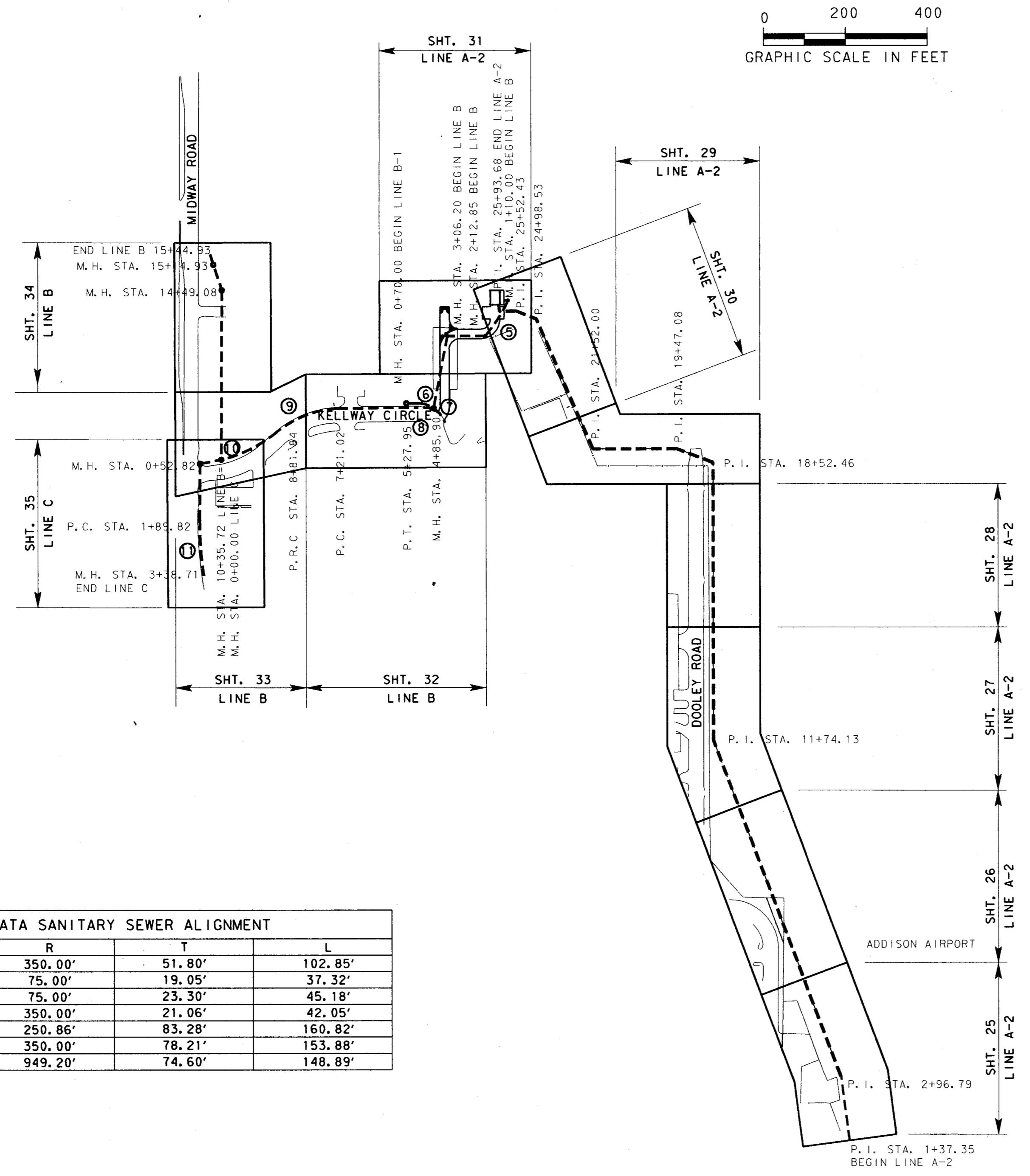
STATION	POINT	COORDINATES	
		NORTHING	EASTING
1+10.00	M. H.	475853.66	2202343.27
2+12.85	M. H.	475766.93	2202288.67
3+06.20	M. H.	475766.87	2202195.32
4+85.90	M. H./P. C.	475590.40	2202161.38
5+27.95	P. T.	475592.40	2202119.40
7+21.02	P. C.	475590.01	2201926.35
8+81.84	M. H.	475534.07	2201778.49
10+35.72	M. H./P. T.	475465.98	2201641.87
14+49.08	M. H.	475879.34	2201643.02
15+14.93	M. H.	475942.04	2201622.89
15+44.93	M. H.	475971.82	2201626.52

☉ LINE B-1 SANITARY SEWER ALIGNMENT

STATION	POINT	COORDINATES	
		NORTHING	EASTING
0+00.00	M. H./P. C.	475590.40	2202161.38
0+37.32	P. T.	475602.83	2202126.60
0+70.00	M. H.	475602.59	2202094.37

☉ LINE C SANITARY SEWER ALIGNMENT

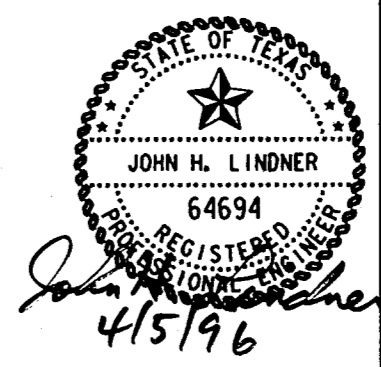
STATION	POINT	COORDINATES	
		NORTHING	EASTING
0+00.00	M. H.	475465.98	2201641.87
0+52.82	M. H.	475456.20	2201589.96
1+89.82	P. C.	475319.87	2201588.98
3+38.71	EX. M. H.	475171.56	2201600.22



☉ CURVE DATA SANITARY SEWER ALIGNMENT

CURVE NO.	Δ	R	T	L
5	16° 50' 15"	350.00'	51.80'	102.85'
6	28° 30' 39"	75.00'	19.05'	37.32'
7	34° 30' 45"	75.00'	23.30'	45.18'
8	6° 53' 04"	350.00'	21.06'	42.05'
9	36° 43' 56"	250.86'	83.28'	160.82'
10	25° 11' 28"	350.00'	78.21'	153.88'
11	8° 59' 15"	949.20'	74.60'	148.89'

4			
3			
2			
1	3-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
SHEET LAYOUT LINES A-2, B & C			
Carter Burgess Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961			
Unit	Scale	1"=200'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner Job No. 93327601D
Drawn	R. Howman	Approved	J. Lindner Sheet 2 of 63



GENERAL NOTES

1. No separate pay for items covered on this sheet, unless specifically established in the proposal section of the project specifications. Include cost of same in the contract unit price for item of which work is a component or as incidental to other work.
2. All construction shall conform to the requirements as stated in the latest edition of the "Standard Specifications For Public Works Construction, North Central Texas Council of Governments" (NCTCOG).
3. Contractor shall coordinate with other contractors of any trade or discipline working adjacent to the project site prior to and during construction.
4. Contractor shall be responsible for providing required security to protect his own property, equipment, and work in progress.
5. The Contractor shall provide all fencing and/or barricades to maintain public safety around the construction area. Bore/tunnel pits shall be bordered by a security fence or by other means to protect pedestrians and vehicular traffic per OSHA requirements and as approved by the Engineer. When not in use, pits shall be covered with steel plates. Contractor shall comply with all applicable safety standards. Not a separate pay item.
6. Contractor shall field verify all dimensions and conditions before commencing work. It shall be Contractor's responsibility to report any discrepancies to the Owner before commencing work.
7. The locations of existing utilities indicated on these plans are taken from existing public records. The Contractor is solely responsible for verification of vertical and horizontal location of all utilities prior to construction. Additional utilities and services may be crossing proposed sanitary sewer line. Contractor shall notify all utility companies with facilities in project area 48 hours prior to construction. Contractor is responsible for repairing damage to existing utilities, whether shown or not shown on plans, at no additional cost to the Town of Addison.
8. Public and private utility lines and customer service lines may exist that are not shown on the construction drawings. It shall be the Contractor's responsibility to locate, maintain, and protect the integrity of these lines. Hand excavation may be required. Not a separate pay item.
9. Contractor shall be responsible for and adequately protect existing structures, utilities, trees, shrubs, fences and other adjoining facilities. Damages caused by Contractor shall be reported to the appropriate property owner and repaired or replaced at the Contractor's expense within four (4) hours.
10. Contractor shall comply with OSHA regulations and State of Texas Laws concerning excavation, trenching and shoring.
11. Dewatering system or systems installed during construction shall be approved by the Engineer. Trench and pit bottoms and excavations shall be maintained in dry, stable condition until work is complete.
12. Contractor shall make every effort to locate dewatering wells in areas that will not cause damage to trees or landscaping. Wells and discharge water should be placed in areas that will not cause disruption, interference or inconvenience to pedestrians and vehicle traffic. Discharge will be subject to acquisition of any necessary approvals and permits. Contractor will be responsible for control of siltation as a result of discharge water and any remedial measures resulting from siltation will be performed by the Contractor at no additional charge.
13. The Contractor shall match all proposed pavement, curb, sidewalks, and driveways with existing.
14. Should any part of a concrete pavement panel be removed during construction of proposed sanitary sewer, the Contractor shall replace the entire panel except as otherwise shown on plans or directed by the Engineer.
15. All expansion joints shall be subsidiary to pavement replacement.
16. All sawcuts are to be full depth unless otherwise indicated on plans.
17. All dimensions to curbline are referenced to the back of curb unless otherwise noted. Curb removal/replacement is subsidiary to pavement removal/replacement.
18. All existing trees and landscaping shall be protected from damage unless specifically designated for removal on the plans. Tree and root trimming must be approved by the Engineer and shall be done by or under supervision of a licensed tree surgeon.
19. Contractor shall coordinate with the proper utility company to relocate, brace and support, or divert any utility in conflict with proposed structure or construction so as not to disrupt service of same. If temporarily relocated to facilitate construction Contractor shall restore relocated or diverted utility to its original condition and location upon completion of construction. No separate pay. Contractor shall be responsible for all associated cost for relocations whether temporary or permanent.
20. The Contractor shall notify the following, five (5) days before starting work on the improvements shown on these plans.

a.	Addison Airport of Texas, Inc. -Mr. Edward Morales	(214) 248-7733 ext.105
b.	FAA-Mr. Curtis Gray	(214) 490-4750
c.	SW Bell Telephone	ENTERPRISE 9800
d.	GTE Telephone	(214) 318-3880
e.	TU Electric	(214) 323-8910
f.	Lone Star Gas	(214) 263-3444
g.	Storer Cable	(214) 840-2288
h.	Conoco Pipeline	(800) 833-6012
i.	Explorer Pipeline	(918) 493-5100
j.	Sprint	(800) 245-4545
21. The Contractor shall notify the Town of Addison Construction Inspector at (214)450-2847 five (5) days before starting work on the improvements in order to coordinate construction, administration, and inspection activities.
22. The Contractor shall notify the Town of Addison Street Department and the Engineer at least 24 hours prior to any construction within street right-of-way.
23. The Contractor shall haul away all waste material such as rubbish, pavement, concrete, pipe, unacceptable soil, etc. to an approved offsite landfill. This shall be subsidiary to the unit price of pipe installation.
24. Unpaved areas disturbed by construction are to be sodded, fertilized and watered per NCTCOG specifications, unless otherwise specified on the plans.
25. The Contractor shall protect all storm sewer inlets receiving storm water runoff from the construction site, per NCTCOG Storm Water Pollution Prevention Plan (SWPPP). Not a separate pay item.
26. All sprinkler systems and related components of sprinkler systems and fences, signs, etc. disturbed by construction are to be restored to existing condition or better. Not a separate pay item.
27. In the event there are conflicting statements between the project specifications and the "The Standard Specifications for Public Works Construction for North Central Texas" the Project Specifications shall be used.
28. In the event an item is not covered in the specifications, the City Engineer's decision will apply.
29. Allowable hours of work within the Town of Addison City limits are from 7:00 a.m. to 7:00 p.m. Work may be conducted Monday thru Saturday with the exception of holidays recognized by the Town of Addison.
No lane closures will be allowed in Belt Line Rd. or Midway Rd. between the hours of 6:00 a.m. thru 10:00 p.m.

30. Sediment barriers and silt fencing shall be installed where necessary at the direction of the Owner and shall be considered incidental to the unit price bid for pipe installation.
31. All tree replacement and trimming will be incidental, not a separate pay item.
32. No more than one driveway entrance per business establishment may be closed at any time. The first driveway cut shall be restored to traffic access prior to cutting pavement at a second driveway. Driveway reinstatement shall be by installing permanent pavement, temporary asphalt or steel plating, crushed rock up to grade is not acceptable.
33. All restoration efforts shall follow immediately behind sanitary sewer installation. This is a very important requirement on this project. The Owner maintains the right to require the Contractor to cease utility construction if restoration lags behind utility installation. No additional time or compensation will be made to the Contractor to fulfill this requirement.
34. All pavement markings & traffic control loops shall be replaced as incidental to pavement replacement. Not a separate pay item.
35. The contractor shall supply "as built" plans upon completion of project.
36. Contractor shall maintain access to properties and shall repair driveways within forty-eight (48) hours of pavement removal. For all pavement replacement use Type 1 cement with appropriate ASTM C494 admixtures.
37. Contractor shall obtain Fire Department and Street Cutting Permits.
38. For all work inside Addison Airport property, Contractor must supply, at his cost, radios compatible with the Control Tower to be employed at all times during construction.
39. Contractor shall be responsible for all cost associated with providing power to the proposed lift station and for any relocation or repairs to existing utilities whether owned by the Town of Addison or franchise utility companies.
40. For all work inside Addison Airport property, Contractor must supply, at his cost, radios compatible with the Control Tower to be employed at all times during construction.
41. Unpaved areas disturbed by contractor are to be hydromulched or sodded, (to be selected by owner) fertilized and watered per NCTCOG specifications, unless specified on the plans. Not a separate pay item.

TRAFFIC HANDLING

1. The Contractor shall be required to provide and maintain all necessary warning and safety devices (flashing lights, barricades, signs, etc) in accordance with Texas Manual on Uniform Traffic Control Devices to protect the public safety and health until all the work has been completed and accepted by the Town of Addison.
2. The Contractor shall maintain access to all adjacent business and residences during construction.
3. The closing of contiguous intersections and median openings to traffic crossing the project route will not be allowed.
4. Implementation and removal of any parking restrictions and traffic signal alterations are the responsibility of the Contractor. The Contractor shall notify the Town of Addison Traffic Engineer, the Police and Fire Department, and the Engineer a minimum of three (3) working days prior to implementation of traffic handling around construction areas, and again upon the completion of work at each site requiring traffic signal modifications.
5. Contractor shall replace all removed pavement markings, in the pre-construction pattern, when temporary diversions are no longer needed.
6. Contractor shall conduct his operations in a manner such that trucks and other vehicles do not create a dirt and dust nuisance or safety hazard in any streets, sidewalks, driveways, and parking lots.
7. Contractor is responsible for cleaning of streets, sidewalks, driveways, and parking lots caused by associated construction at close of each work day or as requested by Engineer.
8. The Contractor shall be responsible for all cost associated with maintaining the continuous operation of the traffic signals in and bordering this project, for making immediate repairs to any signal equipment, cable or conduit he damages, for relocating existing or providing temporary traffic signal equipment if necessary to facilitate construction, for relocating traffic signal heads to provide line-of-sight alignment for approaching motorists, and for providing and installing turn prohibition signs next to the signal heads when these are determined necessary by the area traffic engineer. Actual repairs shall be coordinated through the Town of Addison to assess whether the City or Contractor is to make actual repairs.
9. The contractor shall submit a traffic control plan to be used as a general guide for traffic control on the project. During the course of construction, the City may require additional traffic control devices to ensure public safety and traffic movement. Contractor shall install and maintain such additions at no additional cost to the Owner.


SANITARY SEWER

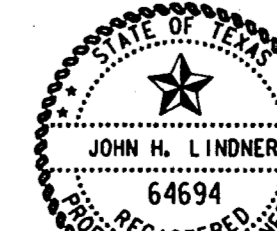
1. Contractor may, at his option, install sewer line by other than open cut methods in areas designated on the plans to be open cut. However, payment will be made based on the lower of the two unit bid prices.
2. In areas designated to be installed by other than open cut, Contractor may at his option install sanitary sewer line by tunneling or by microtunneling methods. Direct jacking of PVC pipe is not permitted and requires a steel casing pipe as shown on plans. However, steel casing pipe may be deleted if jacking pipe or tunnel boring machine (TBM) methods are used. In this case, the unit price bid for installing carrier pipe in casing pipe will be used for installing carrier pipe by other methods allowed in plans and specs.
3. All mains shall be tested in accordance with NCTCOG specifications and the Town of Addison subdivision testing requirements. Not a separate pay item.
4. All embedment and backfill to be included in the unit prices for installation of pipe.
5. Trench excavation for trenches five (5) feet or more in depth shall be in accordance with all provisions of Part 1926, Subpart P - Excavations, Trenching and Shoring of the Occupational Safety and Health's Standards and Interpretations. It shall be the responsibility of the Contractor to conform to the above provisions.
6. If temporary sanitary sewer by-pass is required, the Contractor shall coordinate with the Town of Addison Department of Public Works five (5) working days prior to anticipated shut-down.
7. Sanitary sewer joints (all types PVC included) shall be rubber gasket equipped bell and spigot type. Chemically welded sanitary sewer joints are not acceptable. Bell and spigot joints available for ABS and PVC pipe.
8. The Contractor shall be responsible for the integrity of existing structures in the vicinity of the proposed construction. (No separate pay)

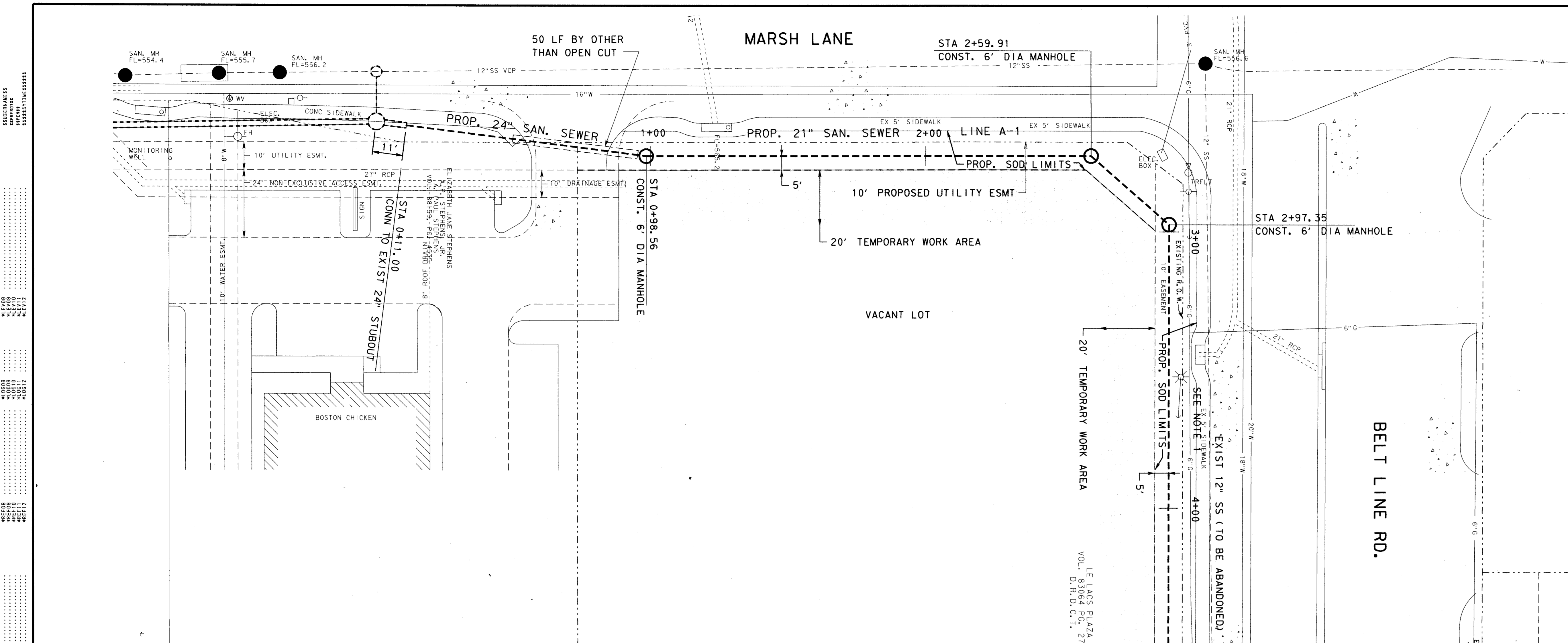
9. Deflection testing shall be performed for all non rigid pipe types. Deflection testing shall be conducted after the gravity sanitary sewer has been in place for at least 30 days. No pipe shall exceed a deflection of 5%. The deflection test shall be conducted using a rigid ball or mandrel having an inside diameter equal to 95% of the interior diameter of the pipe. The test shall be performed without mechanical pulling devices.
10. When installed under existing or proposed pavement or within two (2) feet of back-of-curb, all sewer pipe trenches, miscellaneous structures and bore pits are to be backfilled to pavement subgrade with cement stabilized sand in accordance with the technical specifications.
11. The Contractor shall submit a Construction Phasing Plan prior to beginning any work.
12. If temporary sanitary sewer by-pass is required, the Contractor shall coordinate with the Town of Addison Department of Public Works five (5) working days prior to anticipated shut-down. Prior to installing the by-pass lines, the Contractor shall have on site all men, materials and equipment necessary to complete the by-pass without delays. The by-pass assemblies shall be fully assembled and ready for installation prior to shut-down of the existing system. Any required temporary by-passing shall be considered incidental and not a separate pay item.
13. Thrust blocking required at all force main bends unless otherwise indicated on plans and shall be included in unit price of pipe installation.
14. All force main pipe shall be white in color.
15. All sewer main construction shall conform to the minimum requirements of the Texas Natural Resource Conservation Commission (TNRCC) Rules and Regulations for public water and sewer systems. In particular, Title 30 Texas Administrative Code Chapter 317.2 - Design Criteria for Sewerage Systems.
16. All construction shall conform to the requirements as stated in the "Standard Specifications For Public Works Construction, North Central Texas Council of Governments" (latest edition).
17. All 8" thru 12" force mains shall be Class 200, AWWA C900, P.V.C. pipe.
18. Depth of sewer line shall be adjusted as necessary to avoid conflicts with other underground utilities. No separate pay for use of vertical bends or additional depth of cut.
19. All mains shall be tested in accordance with TNRCC Chapter 317.2 testing requirements as shown in the specifications. Not a separate pay item.
20. All sanitary sewer pipe joints shall be SDR 35 (P.S. 46) PVC ASTM D3034 (green in color), unless otherwise noted.
21. All sewer main construction shall conform to the minimum requirements of the Texas Natural Resource Conservation Commission (TNRCC) Rules and Regulations for public water and sewer systems. In particular, Title 30 Texas Administrative Code Chapter 317.2 - Design Criteria for Sewerage Systems.
22. All construction shall conform to the requirements as stated in the "Standard Specifications For Public Works Construction, North Central Texas Council of Governments" (latest edition).
23. All 8" thru 12" force mains shall be Class 200, AWWA C900, P.V.C. pipe.
24. Depth of sewer line shall be adjusted as necessary to avoid conflicts with other underground utilities. No separate pay for use of vertical bends or additional depth of cut.
25. All mains shall be tested in accordance with TNRCC Chapter 317.2 testing requirements as shown in the specifications. Not a separate pay item.
26. All sanitary sewer pipe joints shall be SDR 35 (P.S. 46) PVC ASTM D3034 (green in color), unless otherwise noted.
27. Terra-Tape required the length of force main installed one (1) foot above mains. Tape to read "Sanitary Sewer". This shall be incidental to the cost of installing the pipe.

MANHOLES

1. All manholes located under pavement shall be backfilled to a point one (1) foot below grade with cement stabilized sand in accordance with the technical specifications.
2. Shale subgrades in footing excavations should be maintained at/or near their in-situ moisture level prior to concrete placement. Any bearing surface subjected to ponding of water should be excavated to undisturbed shale immediately prior to concrete placement. If the shales are allowed to become dry, post-construction movement of footings can occur due to volume changes in the shales. Footing excavations which will remain open for more than 48 hours should be protected by a seal slab. Concrete should be placed with no loose or soft soils or shale.
3. Concrete for manholes foundations shall be Class "C" with a minimum 28-day compressive strength of 4000 psi.

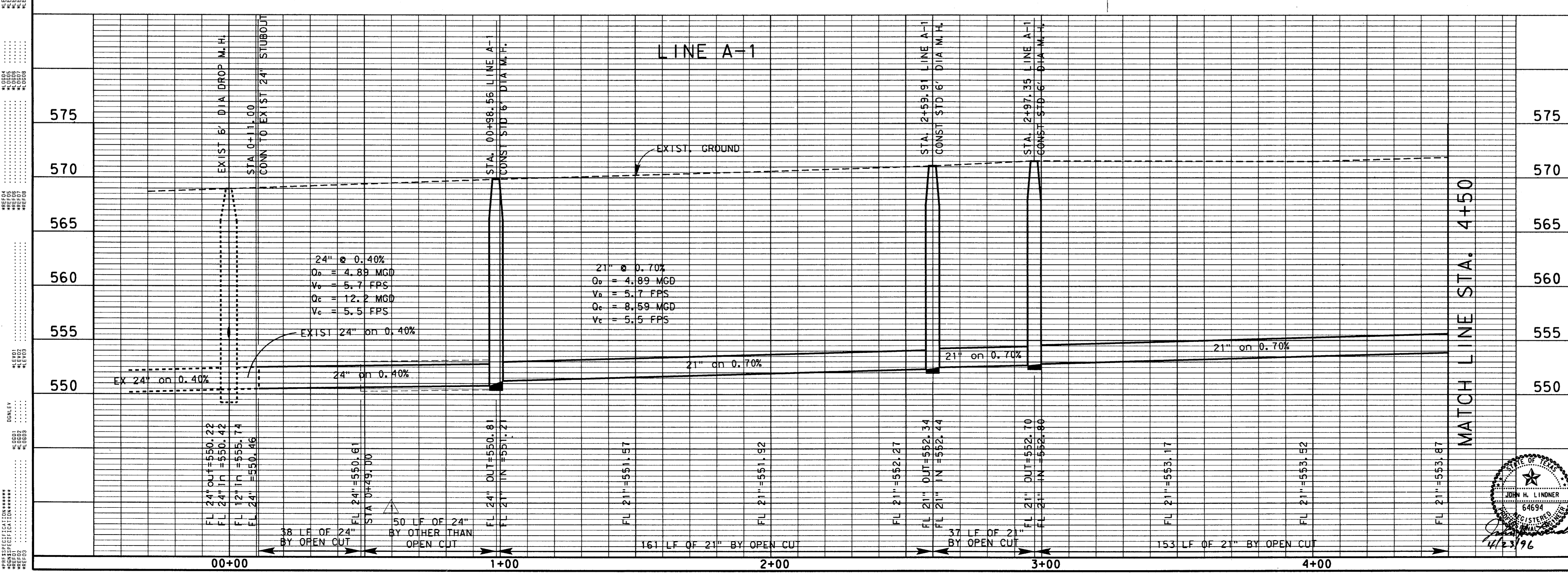
4					
3					
2					
1	9-4-98	AS BUILT DRAWING		J. H. L.	
NO.	DATE	REVISION		APPROV.	
TOWN OF ADDISON, TEXAS					
MIDWAY/BELTLINE SANITARY SEWER PHASE II					
GENERAL NOTES					
 Carter & Burgess Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961					
Unit	Scale	Date	04-05-96		
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	3 of 63


 John H. Lindner
 4/5/96



- NOTES:
- CONTRACTOR SHALL BRACE POWER POLES OR TEMP. RELOCATE AS NECESSARY. NOT A SEPARATE PAY ITEM.
 - CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH OTHER CONSTRUCTION WORK ON THE ADJACENT PROPERTY.
 - NO LANE CLOSURES ON BELTLINE ROAD BETWEEN 6:00 AM THRU 10:00 PM

MATCH LINE STA. 4+50



NO.	DATE	REVISION	APPROV.
4			
3			
2	9-4-98	AS BUILT DRAWING	J. H. L.
1	4-23-96	ADDENDUM NO. 1	J. H. L.

TOWN OF ADDISON, TEXAS

MIDWAY/BELTLINE SANITARY SEWER PHASE II

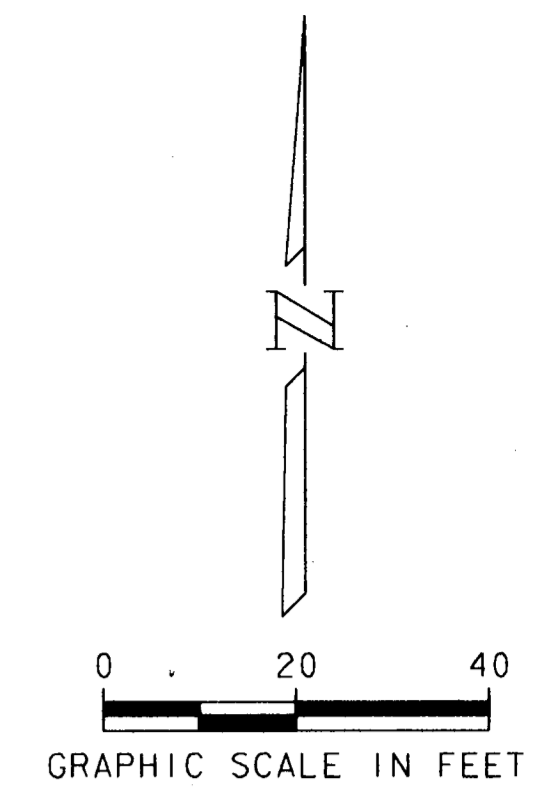
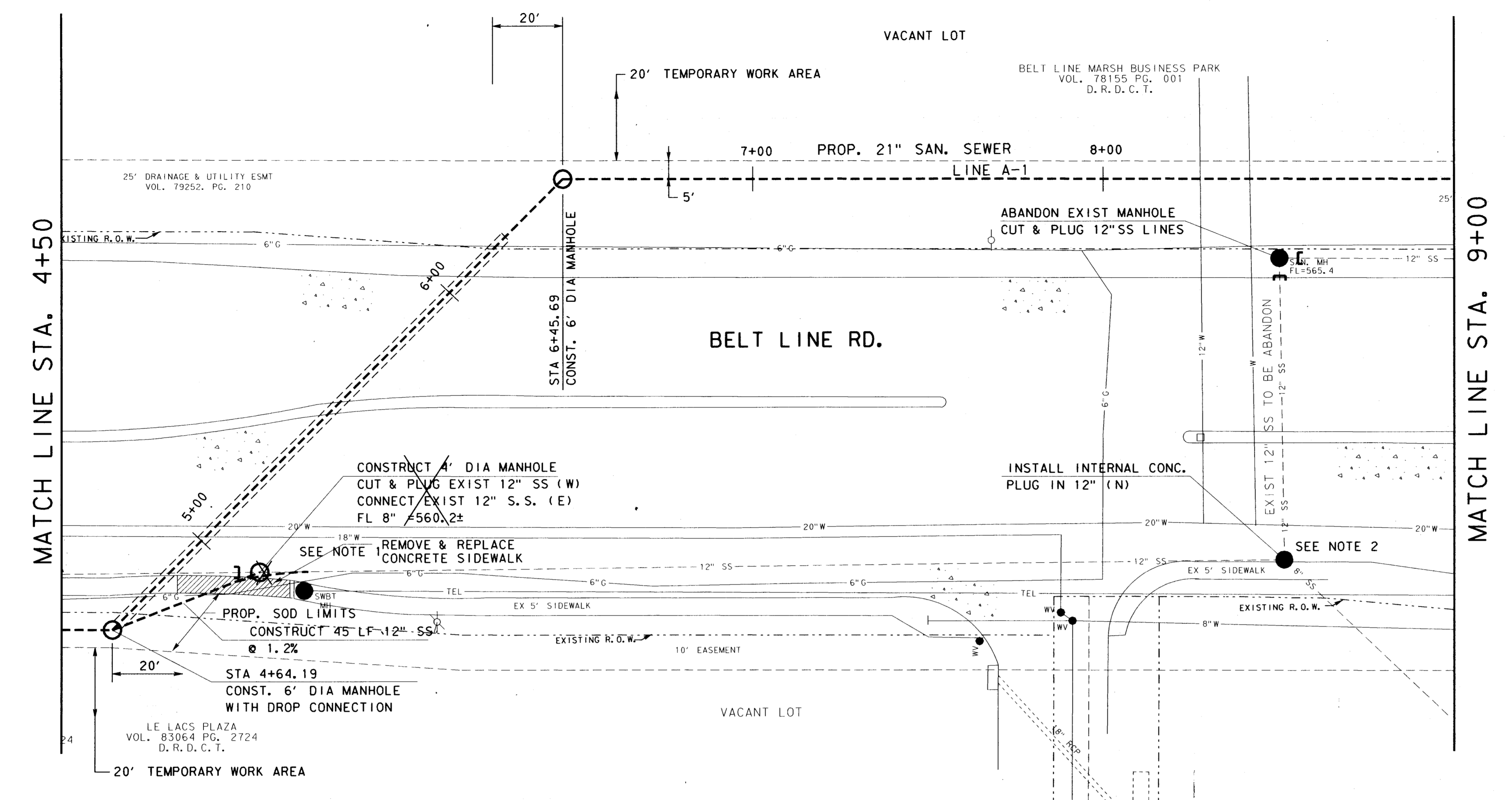
LINE A-1
FROM STATION 0+11 TO STATION 4+50

Carter Burgess
Consultants in Engineering, Architecture,
Planning and the Environment
CARTER & BURGESS, INC.
7950 ELM BROOK DRIVE, SUITE 250
DALLAS, TX 75247-4961

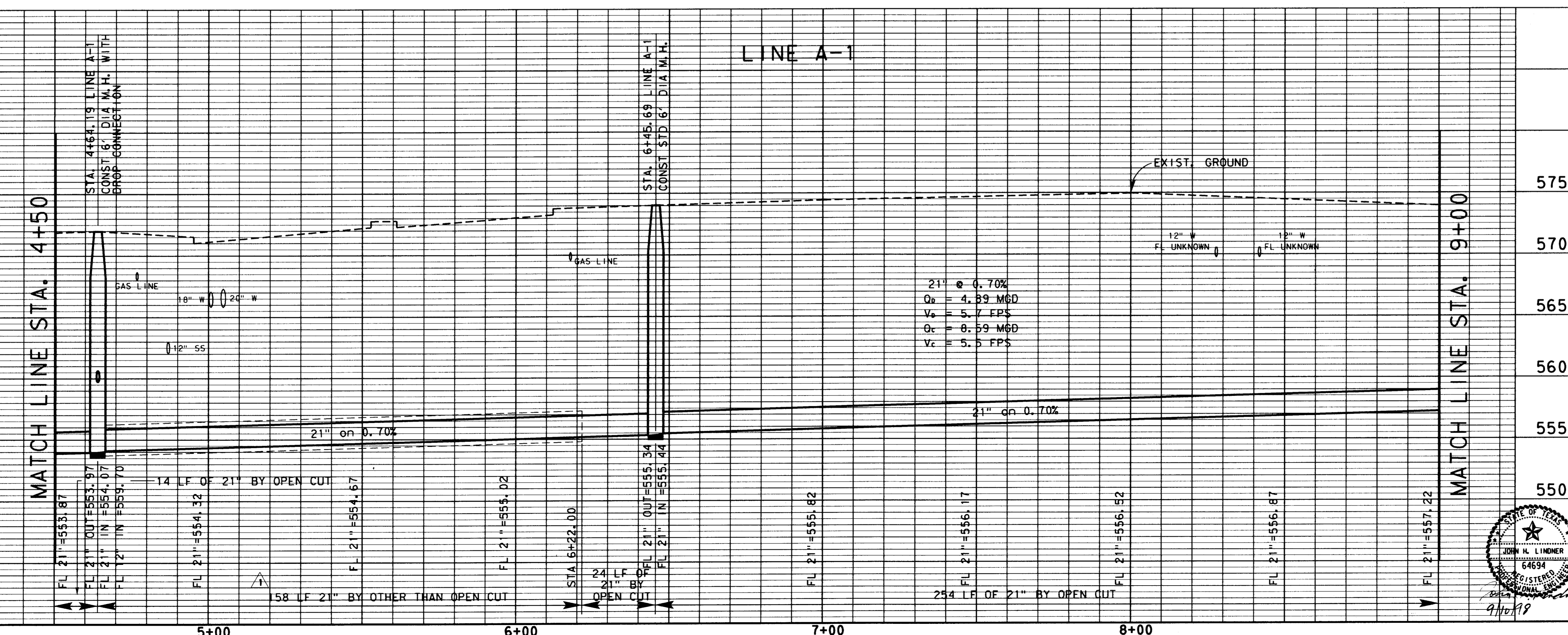
Unit	Scale	Horiz. 1"=20' Vert. 1"=5'	Date	04-05-96	
Designed	J. Lindner	Checked	J. Lindner	Job No.	933276010
Drawn	R. Howman	Approved	J. Lindner	Sheet	4 of 63

3276SS01.DGN

REVISIONS
 NO. DATE BY
 1 4-23-96 J.H.L.
 2 9-4-98 J.H.L.
 3
 4



NOTE:
 1. CONTRACTOR WILL BE PERMITTED TO INSTALL 4' DIA MANHOLE IN BELT LINE ROAD AFTER 10:00pm MONDAY THRU THURSDAY (SEE GENERAL NOTE 29 - SHEET 3 OF 63).
 2. CONTRACTOR TO CONSTRUCT AN INTERNAL PLUG ON THE EXIST 12" SS LINE (N). NOT A SEPARATE PAY ITEM.



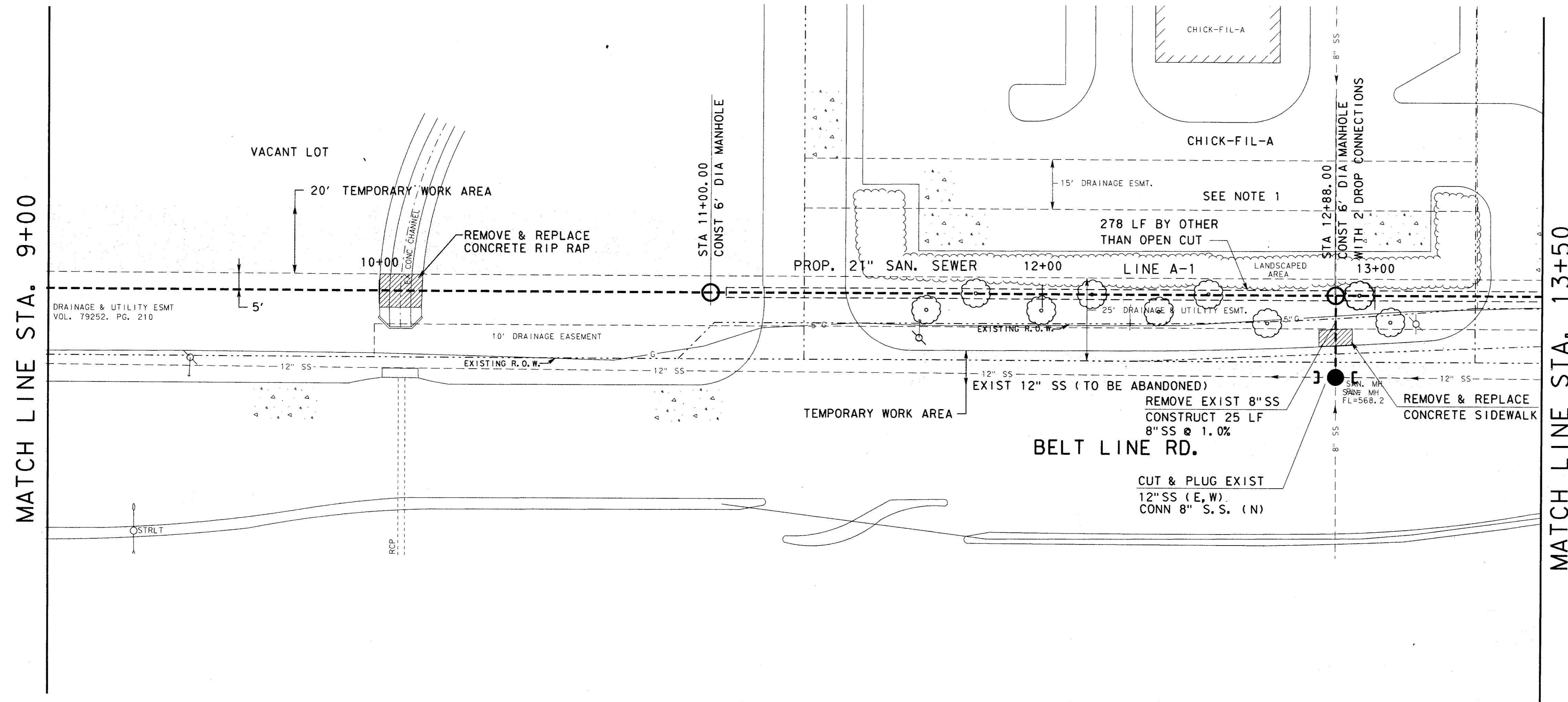
NO.	DATE	REVISION	APPROV.
4			
3			
2	9-4-98	AS BUILT DRAWING	J. H. L.
1	4-23-96	ADDENDUM NO. 1	J. H. L.

TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LINE A-1
 FROM STATION 4+50 TO STATION 9+00

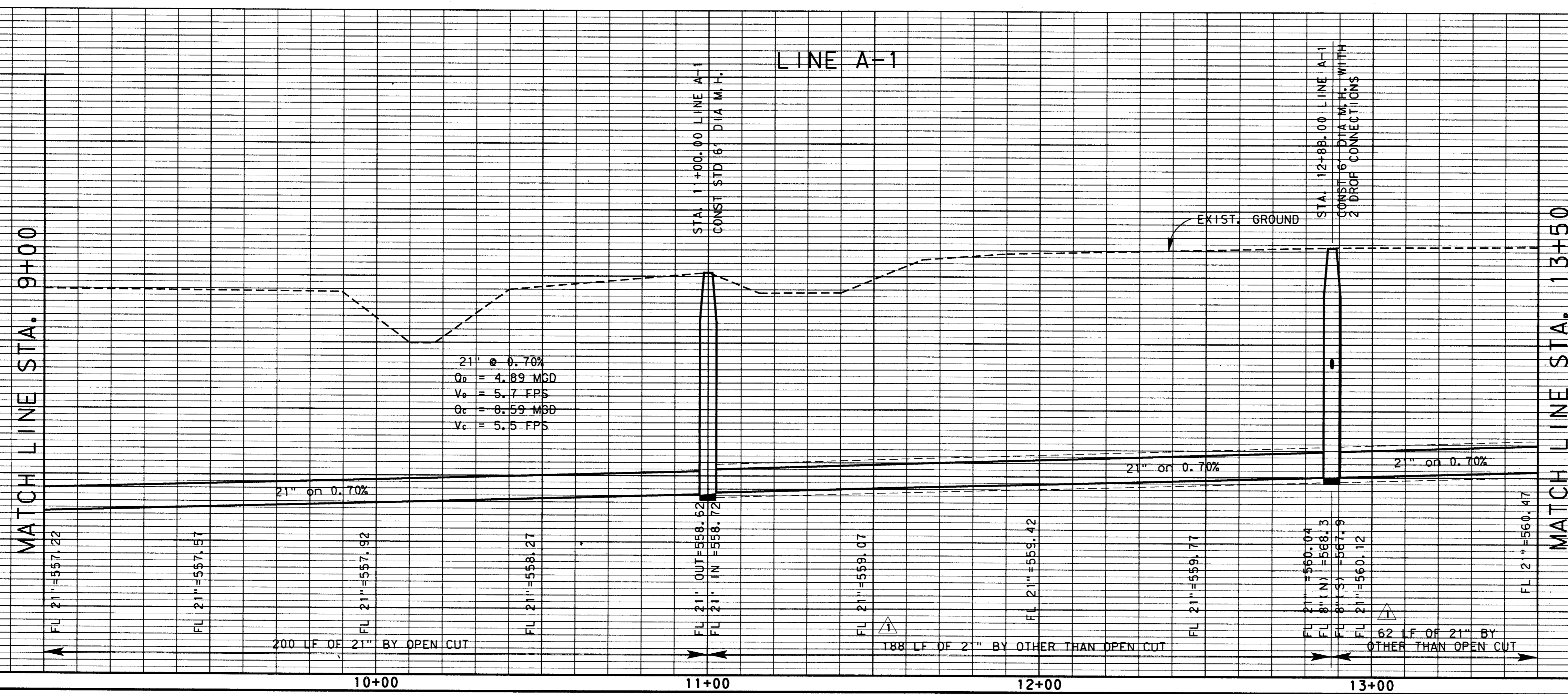
Carter Burgess
 Consultants in Engineering, Architecture,
 Planning and the Environment
 CARTER & BURGESS, INC.
 7950 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961

Unit: Scale: Hor 1" = 20' Ver 1" = 5' Date: 04-05-96
 Designed: J. Lindner Checked: J. Lindner Job No.: 93327601D
 Drawn: R. Howman Approved: J. Lindner Sheet: 5 of 63

ENGINEER: J. LINDNER
 CHECKED: R. HOWMAN
 DATE: 04-05-96
 SHEET: 6 OF 63
 PROJECT: MIDWAY/BELTLINE SANITARY SEWER PHASE II
 DRAWING NO.: 3276503.DGN

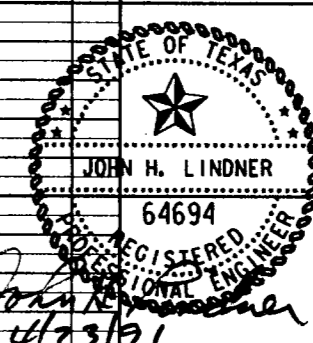


- NOTE:
- CONTRACTOR SHALL RESTORE LANDSCAPE TO ORIGINAL CONDITION. NOT A SEPARATE PAY ITEM.
 - FOR WORK IN BELT LINE RD., SEE GENERAL NOTE 29 ON SHEET 3 OF 63.



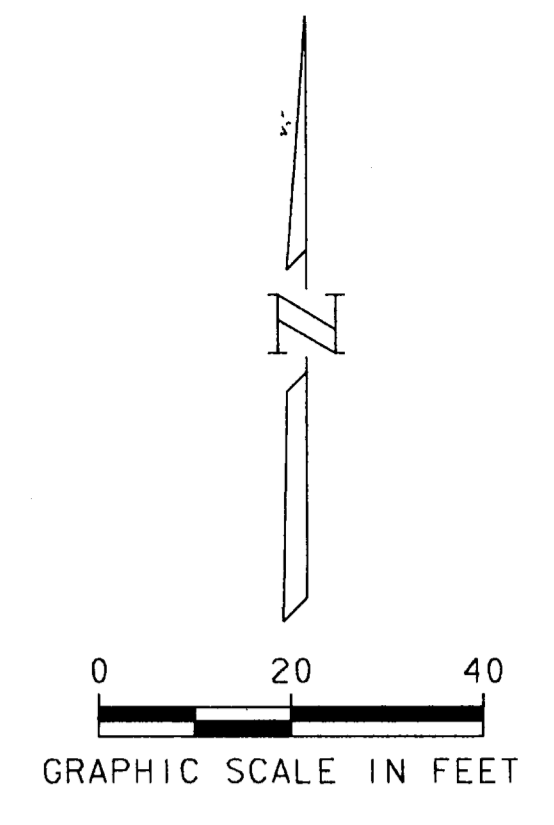
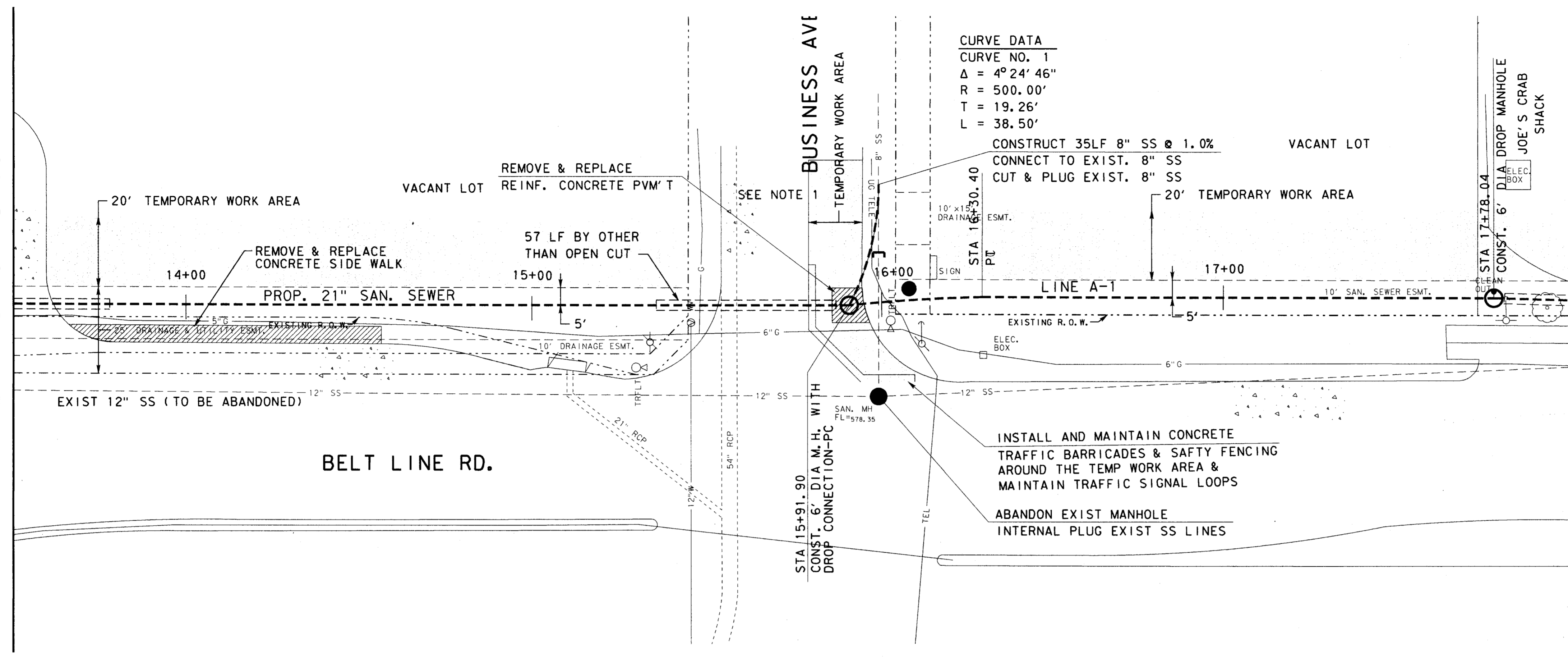
21" @ 0.70%
 $Q_c = 4.89$ MGD
 $V_c = 5.7$ FPS
 $Q_c = 8.59$ MGD
 $V_c = 5.5$ FPS

4			
3			
2	5-4-98	AS BUILT DRAWING	J. H. L.
1	4-23-96	ADDENDUM NO. 1	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1			
FROM STATION 9+00 TO STATION 13+50			
Carter & Burgess <small>Consultants in Engineering, Architecture, Planning and the Environment</small> CARTER & BURGESS, INC. <small>7950 EMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	Horiz. 1"=20' Vert. 1"=5'	Date 04-05-96
Designed J. Lindner	Checked J. Lindner	Job No. 93327601D	
Drawn R. Howman	Approved J. Lindner	Sheet 6 of 63	



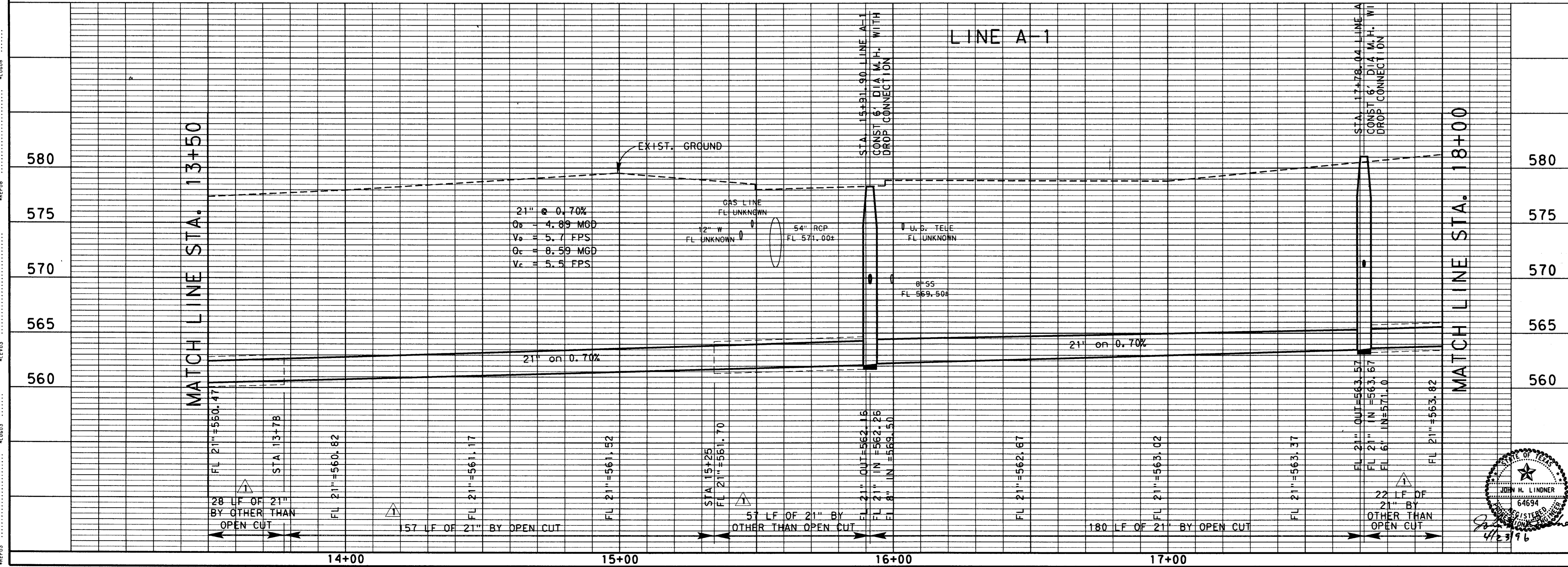
REFERENCE TO SHEETS: 13+50, 14+00, 15+00, 16+00, 17+00, 18+00
 PROJECT NO. 93327601D
 SHEET NO. 7 OF 63
 DATE 04-05-96

MATCH LINE STA. 13+50



NOTE:
 1. INSTALL TEMPORARY 2-WAY TRAFFIC BUTTONS IN BUSINESS AVE DURING CONSTRUCTION OF MANHOLE.

MATCH LINE STA. 18+00

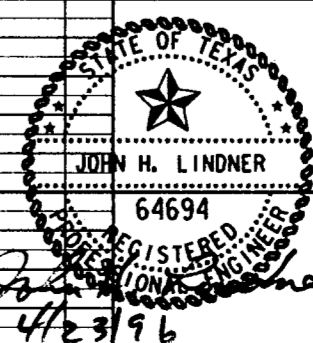


NO.	DATE	REVISION	APPROV.
4			
3			
2	5-4-98	AS BUILT DRAWING	J. H. L.
1	4-23-96	ADDENDUM NO. 1	J. H. L.

TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LINE A-1
 FROM STATION 13+50 TO STATION 18+00

Carter Burgess

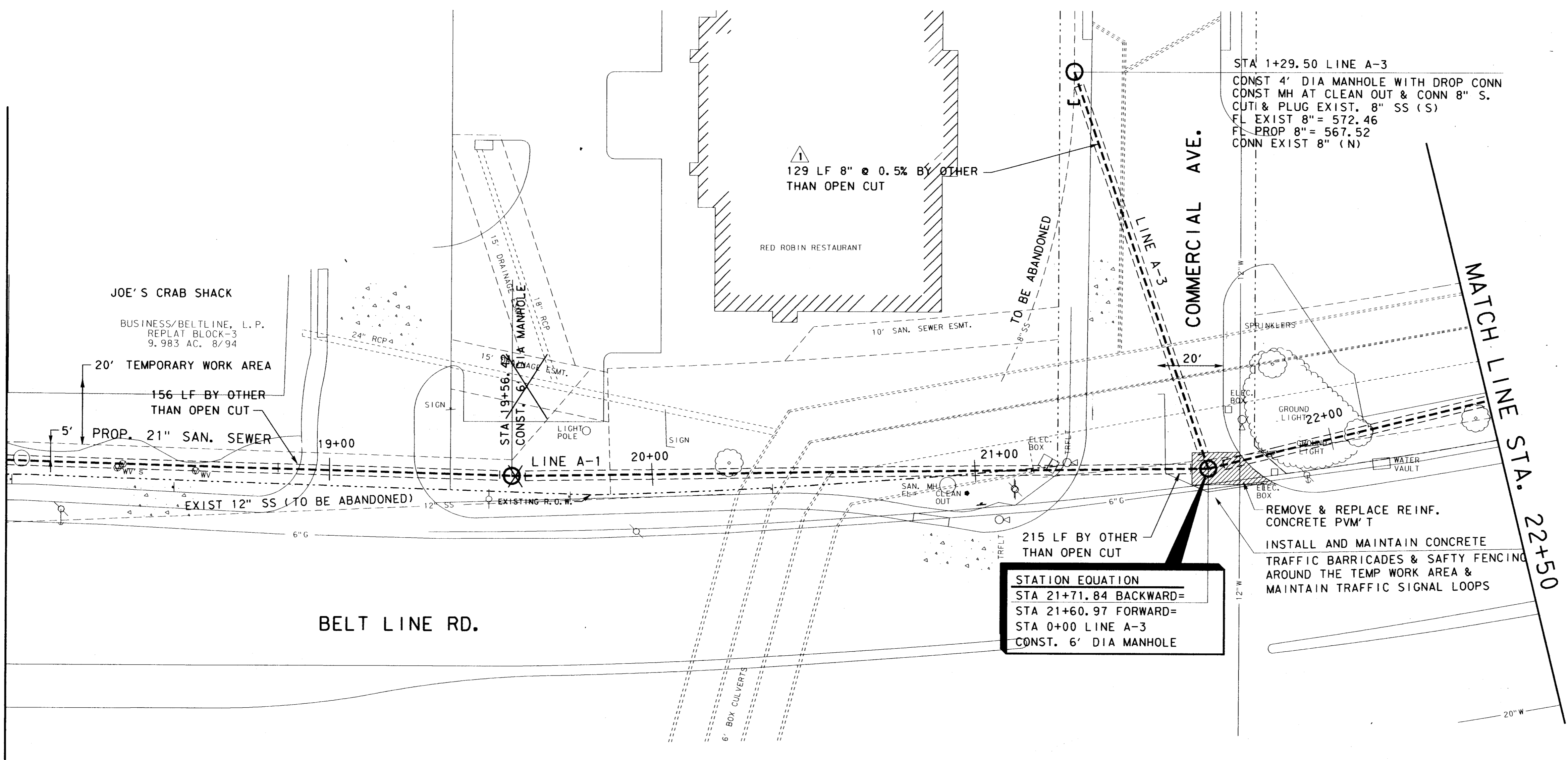
Consultants in Engineering, Architecture,
 Planning and the Environment
 CARTER & BURGESS, INC.
 7950 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961



Unit	Scale	Hor. 1" = 20'	Vert. 1" = 5'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	7 of 63

SUBSEQUENT...
 NO. DATE REVISION APPROV.
 1 4-23-96 ADDENDUM NO. 1 J. H. L.
 2 9-4-98 AS BUILT DRAWING J. H. L.
 3
 4

MATCH LINE STA. 18+00

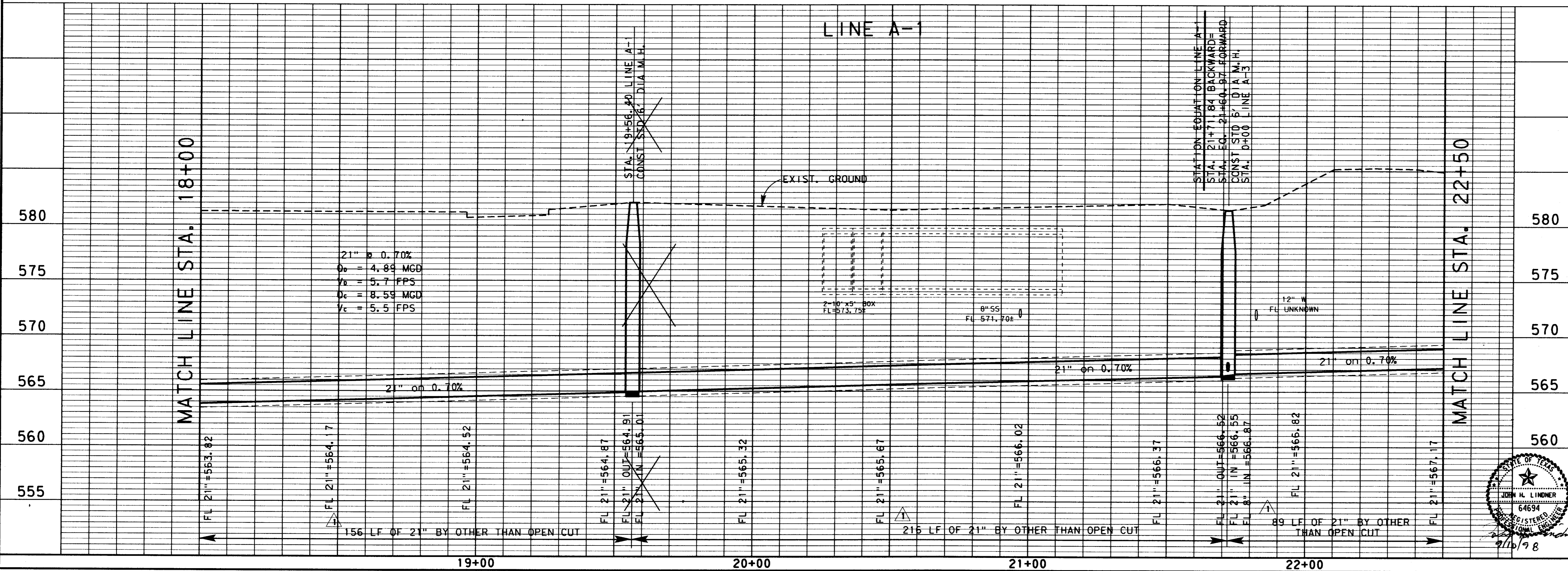
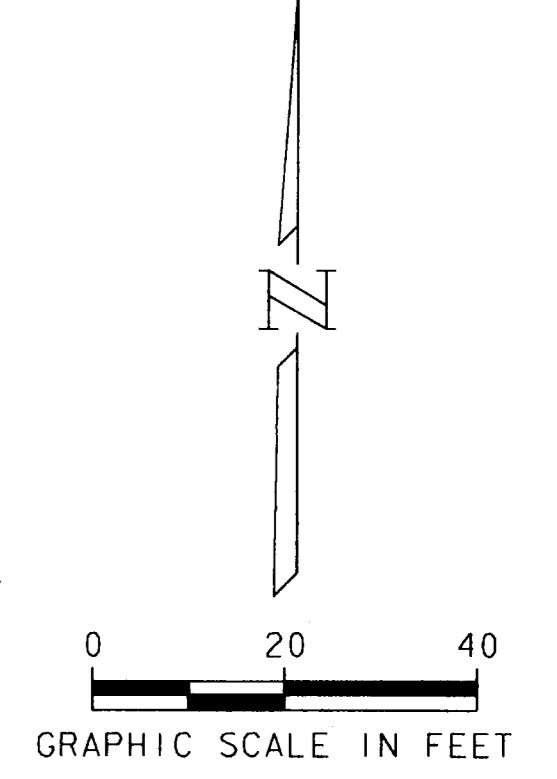


STA 1+29.50 LINE A-3
 CONST 4' DIA MANHOLE WITH DROP CONN
 CONST MH AT CLEAN OUT & CONN 8" S.
 CUTI & PLUG EXIST. 8" SS (S)
 FL EXIST 8" = 572.46
 FL PROP 8" = 567.52
 CONN EXIST 8" (N)

NOTE:
 STATION EQUATION THIS SHEET

STATION EQUATION
 STA 21+71.84 BACKWARD=
 STA 21+60.97 FORWARD=
 STA 0+00 LINE A-3
 CONST. 6' DIA MANHOLE

BELT LINE RD.



MATCH LINE STA. 22+50

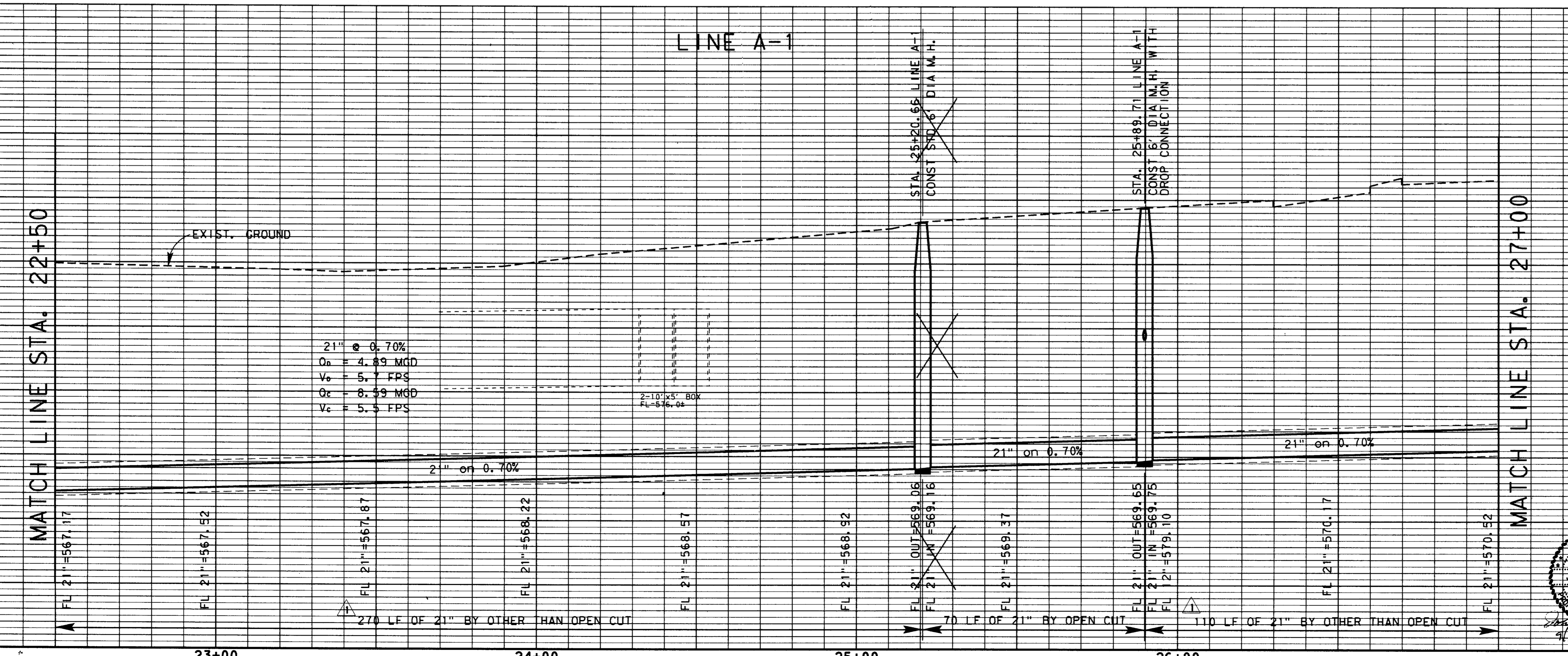
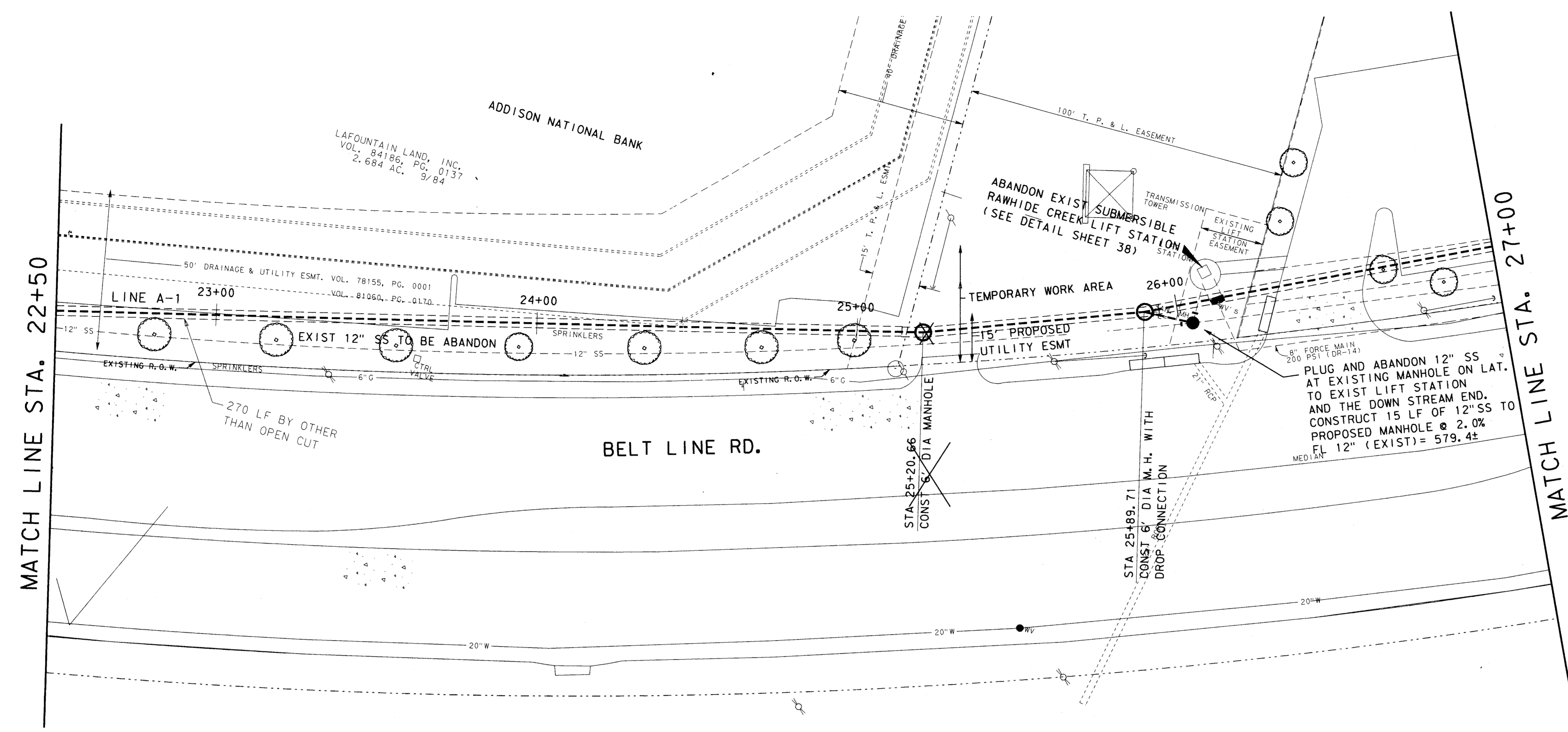
NO.	DATE	REVISION	APPROV.
1	4-23-96	ADDENDUM NO. 1	J. H. L.
2	9-4-98	AS BUILT DRAWING	J. H. L.
3			
4			

TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LINE A-1
 FROM STATION 18+00 TO STATION 21+71.84 BKWD=
 STATION 21+60.97 FRWD TO STATION 22+50

Carter & Burgess
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 Planning and the Environment
 CARTER & BURGESS, INC.
 7950 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961

Unit: Scale: Hor 1/2" = 20'
 Vert. 1" = 5' Date: 04-05-98
 Designed: J. Lindner Checked: J. Lindner Job No.: 93327601D
 Drawn: R. Howman Approved: J. Lindner Sheet: 8 of 63

REVISIONS
 NO. DATE BY
 1 4-23-96 J.H.L.
 2 9-4-98 J.H.L.
 3
 4



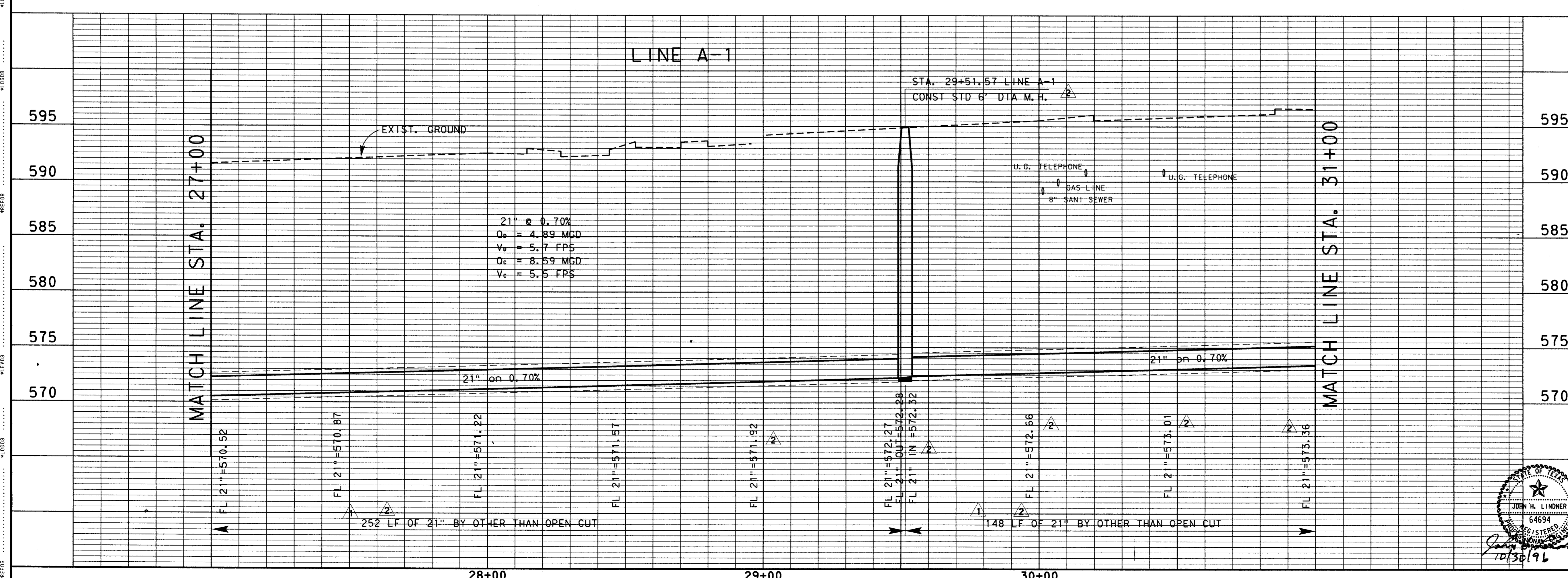
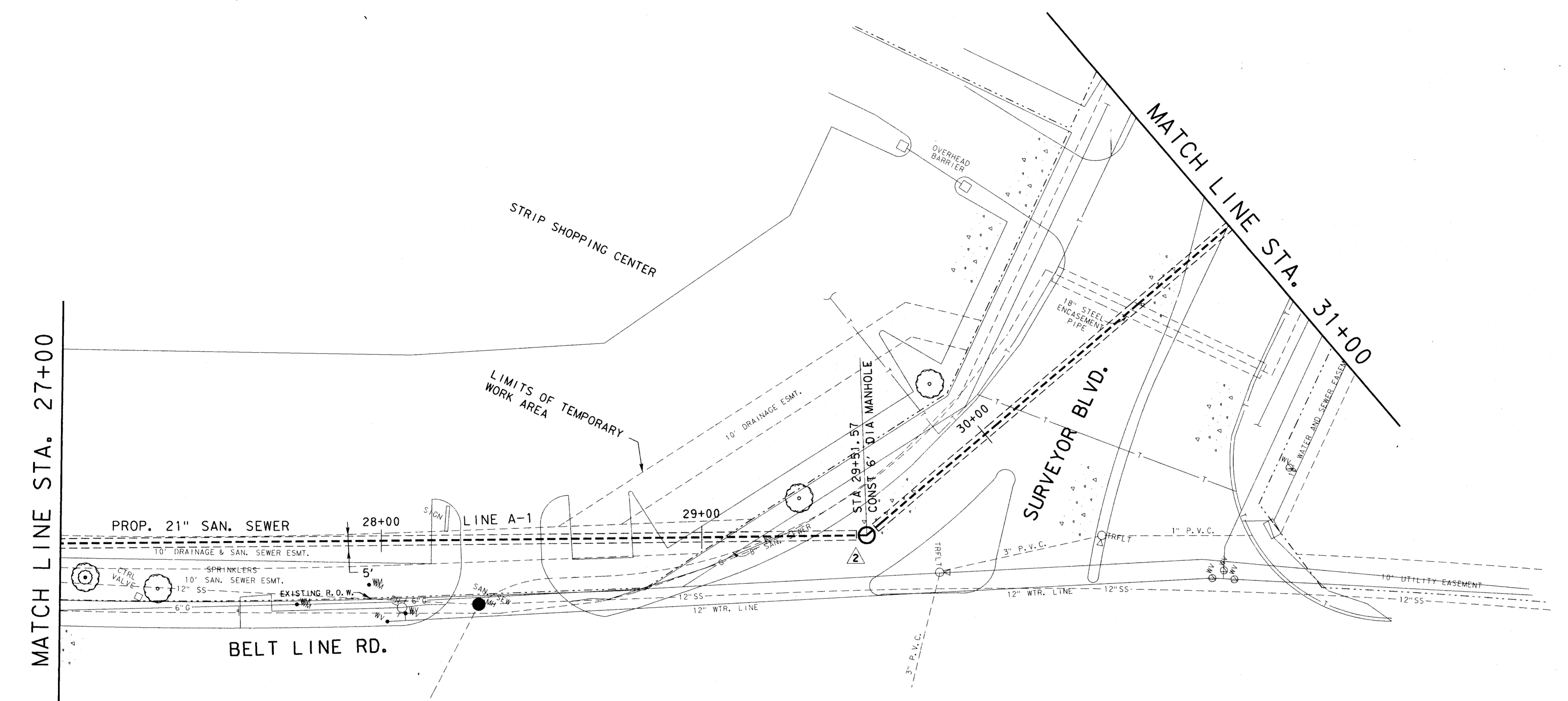
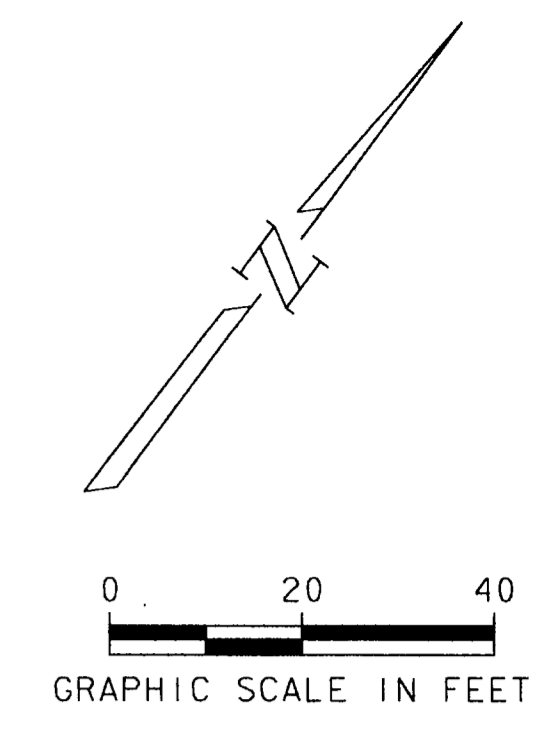
NO.	DATE	REVISION	APPROV.
4			
3			
2	9-4-98	AS BUILT DRAWING	J. H. L.
1	4-23-96	ADDENDUM NO. 1	J. H. L.

TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LINE A-1
 FROM STATION 22+50 TO STATION 27+00

Carter Burgess
 Consultants in Engineering, Architecture,
 Planning and the Environment
 JOHN H. LINDNER
 7500 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961

Unit: Horizontal: 1"=20'
 Vertical: 1"=5'
 Date: 04-05-96
 Designed: J. Lindner
 Checked: J. Lindner
 Job No.: 93327601D
 Drawn: R. Howman
 Approved: J. Lindner
 Sheet: 9 of 63
 32765506.DGN

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JOHN H. LINDNER, P.E. 64694, IN MARCH 1997.
 ALTERATION OF A SEALED DOCUMENT WITHOUT PROPER NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. 01-2607



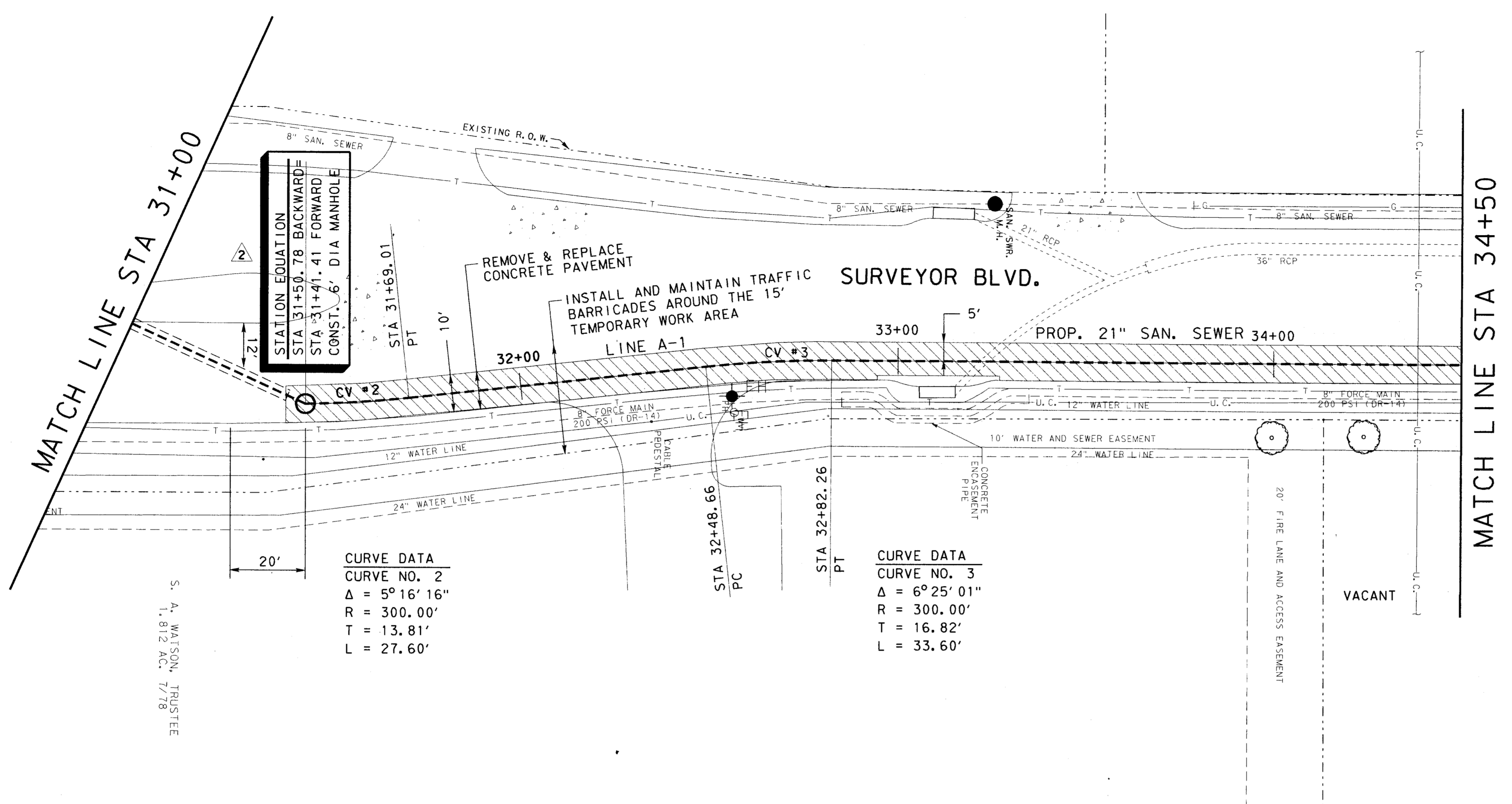
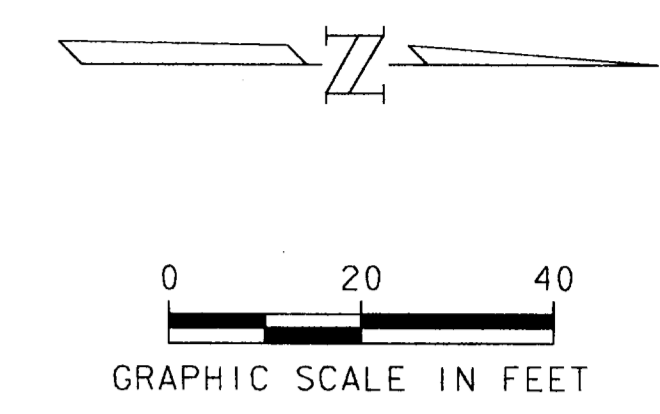
NO.	DATE	REVISION	APPROV.
4			
3	9-4-98	AS BUILT DRAWING	J. H. L.
2	10-29-96	REVISED MANHOLE LOCATION	J. H. L.
1	4-23-96	ADDENDUM NO. 1	J. H. L.

TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LINE A-1
 FROM STATION 27+00 TO STATION 31+00

Carter Burgess
 Consultants in Engineering, Architecture,
 Planning and the Environment.
 CARTER & BURGESS, INC.
 7950 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961

JOHN H. LINDNER
 54634
 10/30/96

Unit	Scale	Hor'lz. 1"=20'	Vert. 1"=5'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	10 of 63

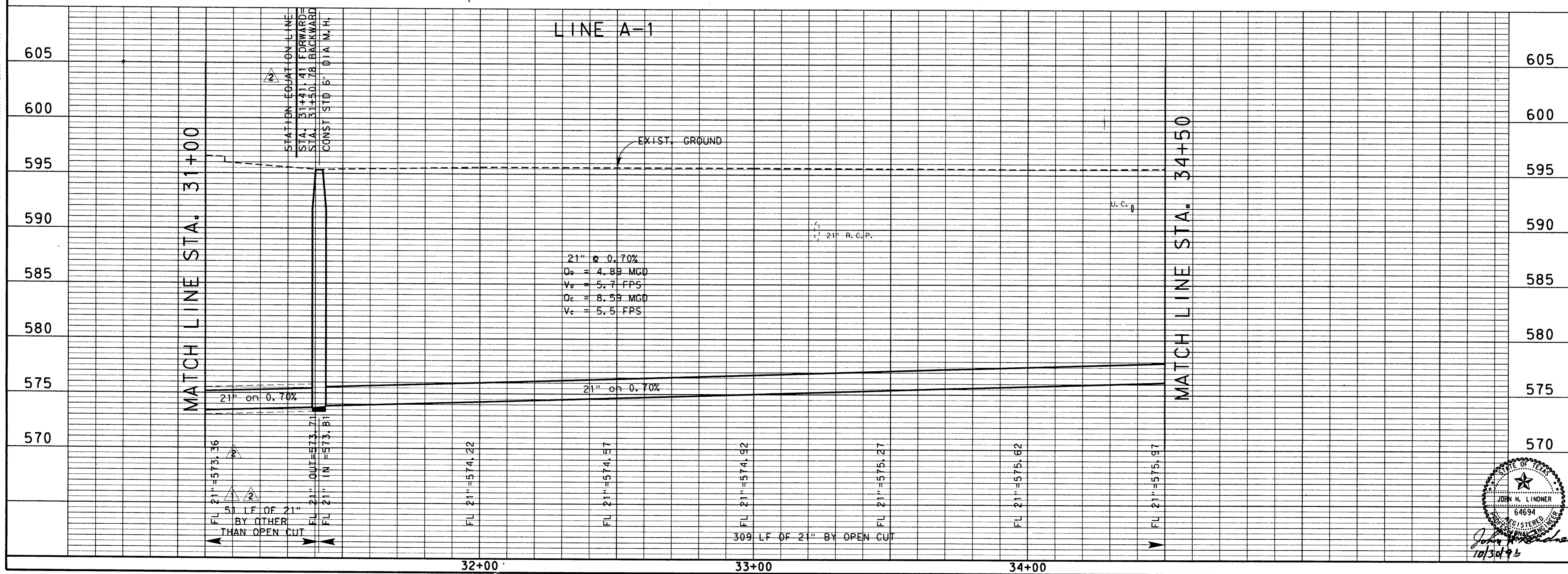


CURVE DATA
 CURVE NO. 2
 $\Delta = 5^\circ 16' 16''$
 $R = 300.00'$
 $T = 13.81'$
 $L = 27.60'$

CURVE DATA
 CURVE NO. 3
 $\Delta = 6^\circ 25' 01''$
 $R = 300.00'$
 $T = 16.82'$
 $L = 33.60'$

- NOTE:
 1. CONTRACTOR SHALL PROVIDE TEMPORARY STRIPPING OF SURVEYOR BLVD. INTO AT LEAST 2-10' MIN TWO WAY TRAFFIC LANES DURING CONSTRUCTION.

NOTE:
 STATION EQUATION THIS SHEET

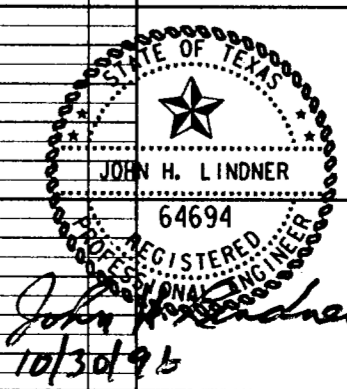


21" @ 0.70%
 $Q_p = 4.89$ MGD
 $V_v = 5.7$ FPS
 $Q_c = 8.59$ MGD
 $V_c = 5.5$ FPS

NO.	DATE	REVISION	APPROV.
4			
3	9-4-98	AS BUILT DRAWING	J. H. L.
2	10-29-96	REVISED MANHOLE LOCATION	J. H. L.
1	4-23-96	ADDENDUM NO. 1	J. H. L.

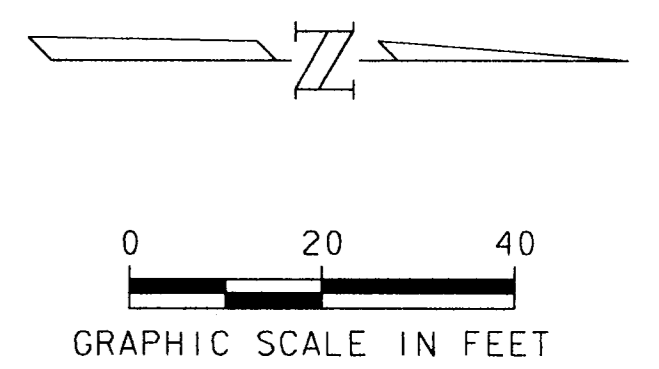
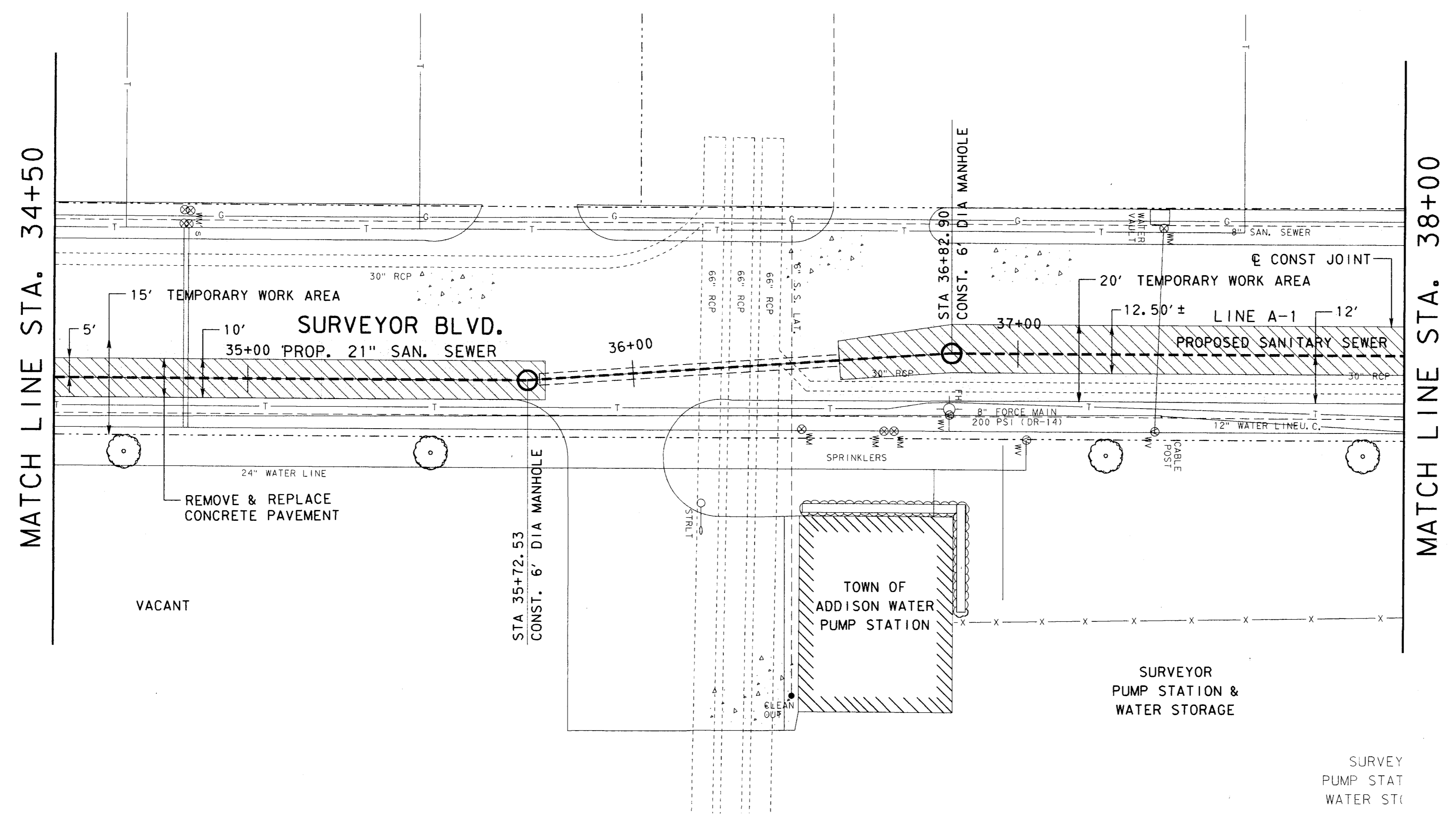
TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LINE A-1
 FROM STATION 31+00 TO STATION 34+50

Carter-Burgess
 Consultants in Engineering, Architecture,
 Planning, and the Environment
 CARTER & BURGESS, INC.
 7950 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961

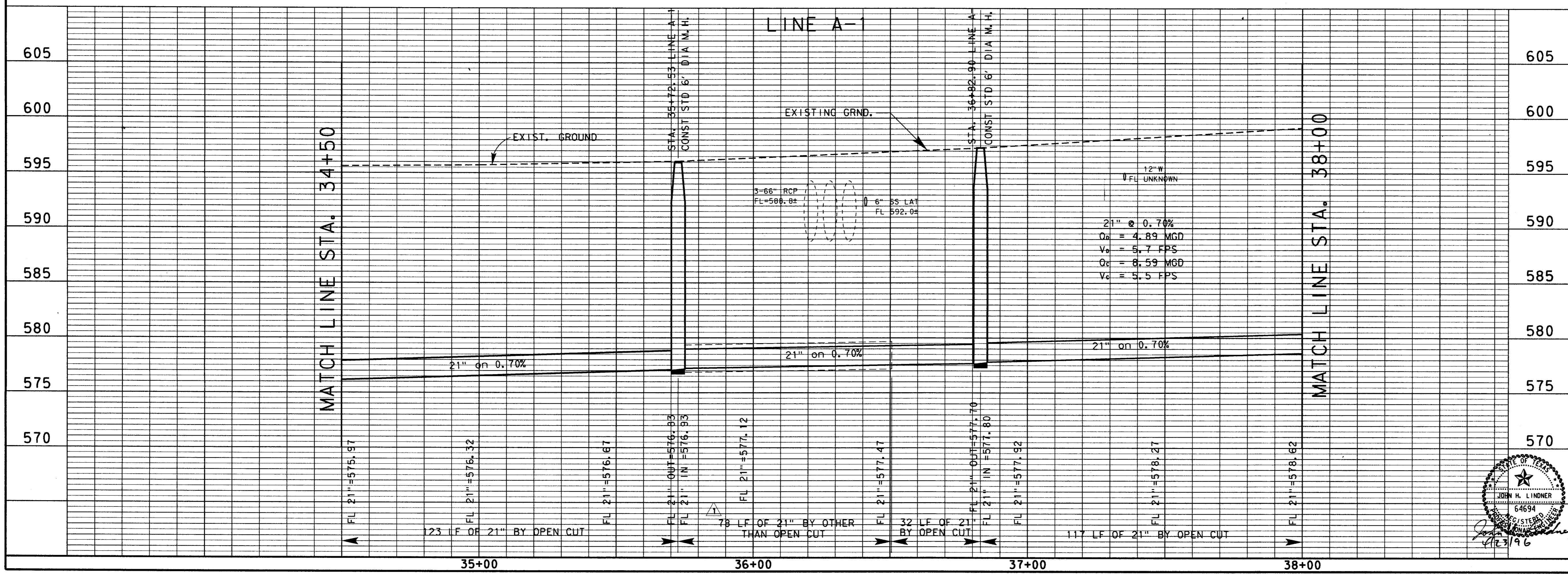


Unit	Scale	Hor. 1" = 20'	Vert. 1" = 5'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	11 of 63

REVISIONS
 NO. DATE BY
 1 4-23-96 J.H.L.
 2 9-4-98 J.H.L.
 3
 4



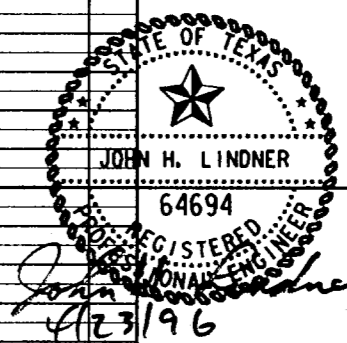
NOTE:
 CONTRACTOR TO PROVIDE TEMPORARY STRIPPING OF SURVEYOR BLVD. INTO AT LEAST 2-10' MIN. TWO WAY TRAFFIC LANES DURING CONSTRUCTION.



NO.	DATE	REVISION	APPROV.
1	4-23-96	ADDENDUM NO. 1	J. H. L.
2	9-4-98	AS BUILT DRAWING	J. H. L.
3			
4			

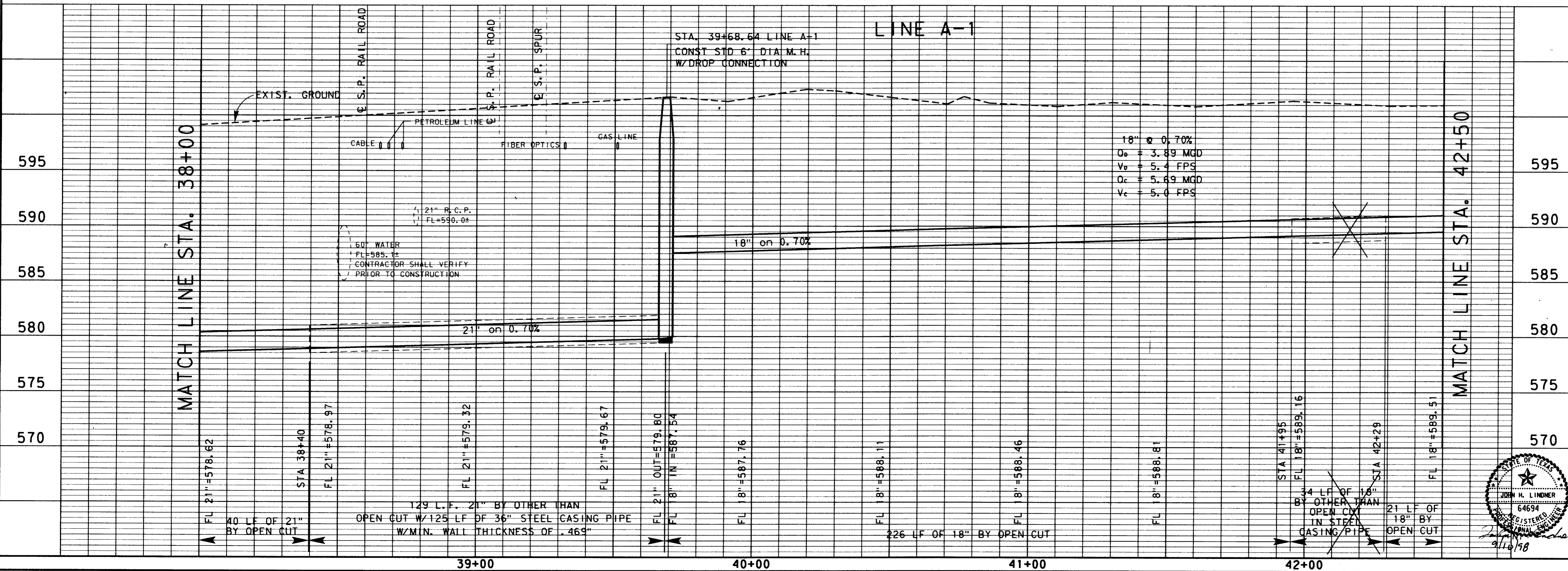
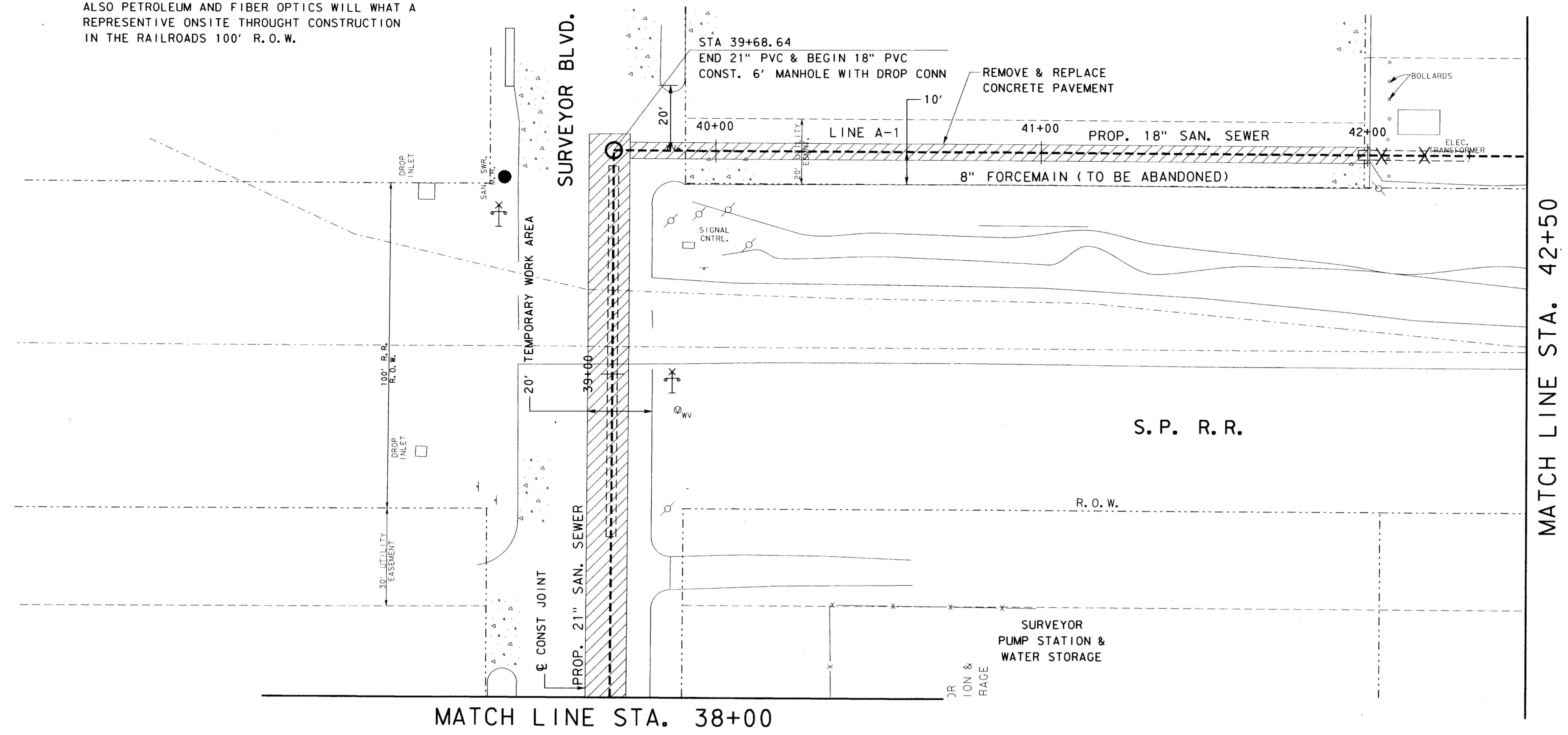
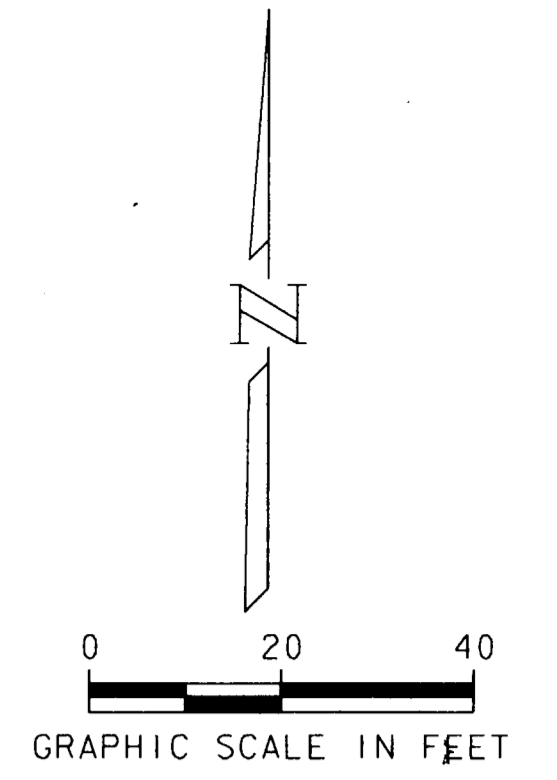
TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER PHASE II
 LINE A-1
 FROM STATION 34+50 TO STATION 38+00

Carter Burgess
 Consultants in Engineering, Architecture, Planning, and the Environment
 CARTER & BURGESS, INC.
 7950 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961



Unit	Scale	Horiz. 1"=20'	Vert. 1"=5'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	12 of 63

ADVISE FIRE DEPT. WHEN WORKING IN THIS AREA.
ALSO PETROLEUM AND FIBER OPTICS WILL WHAT A
REPRESENTIVE ONSITE THROUGH CONSTRUCTION
IN THE RAILROADS 100' R.O.W.



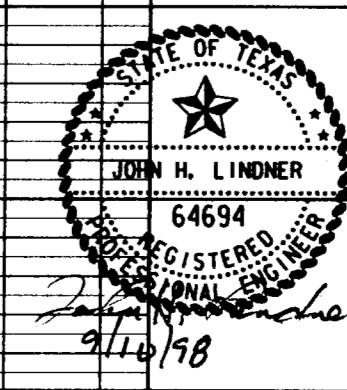
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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS
MIDWAY/BELTLINE SANITARY SEWER
PHASE II

LINE A-1
FROM STATION 38+00 TO STATION 42+50

Carter-Burgess

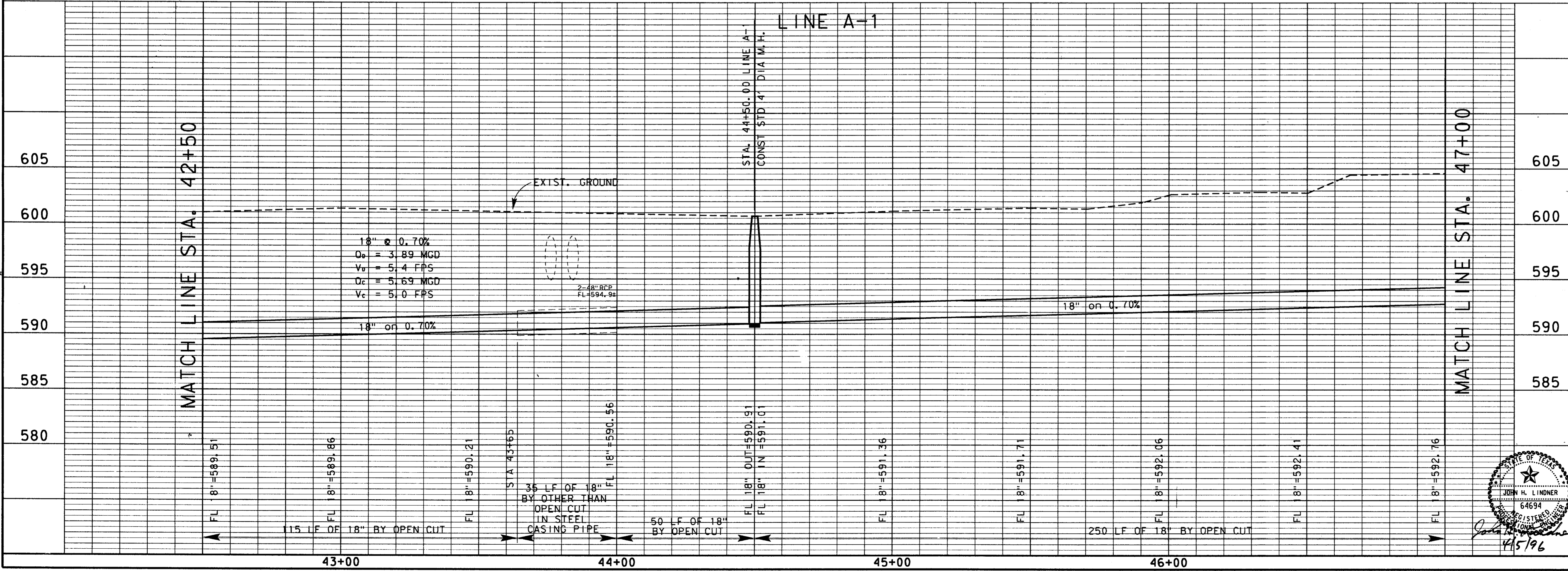
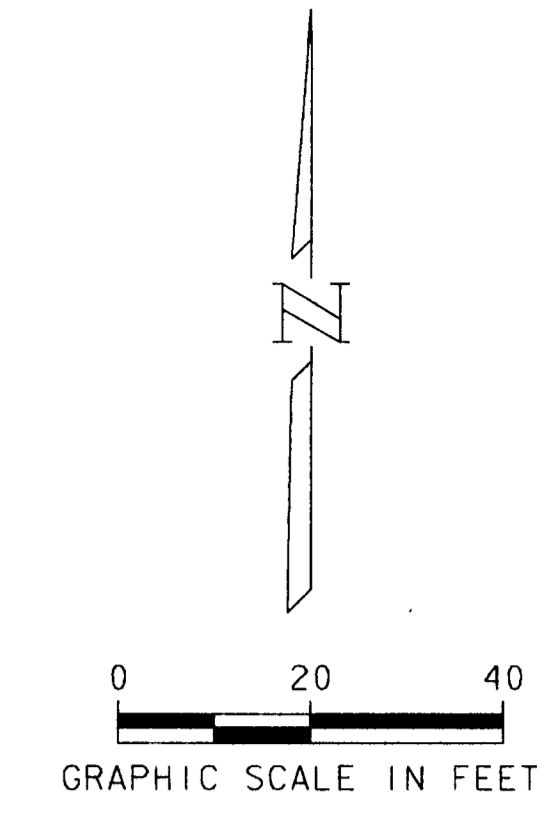
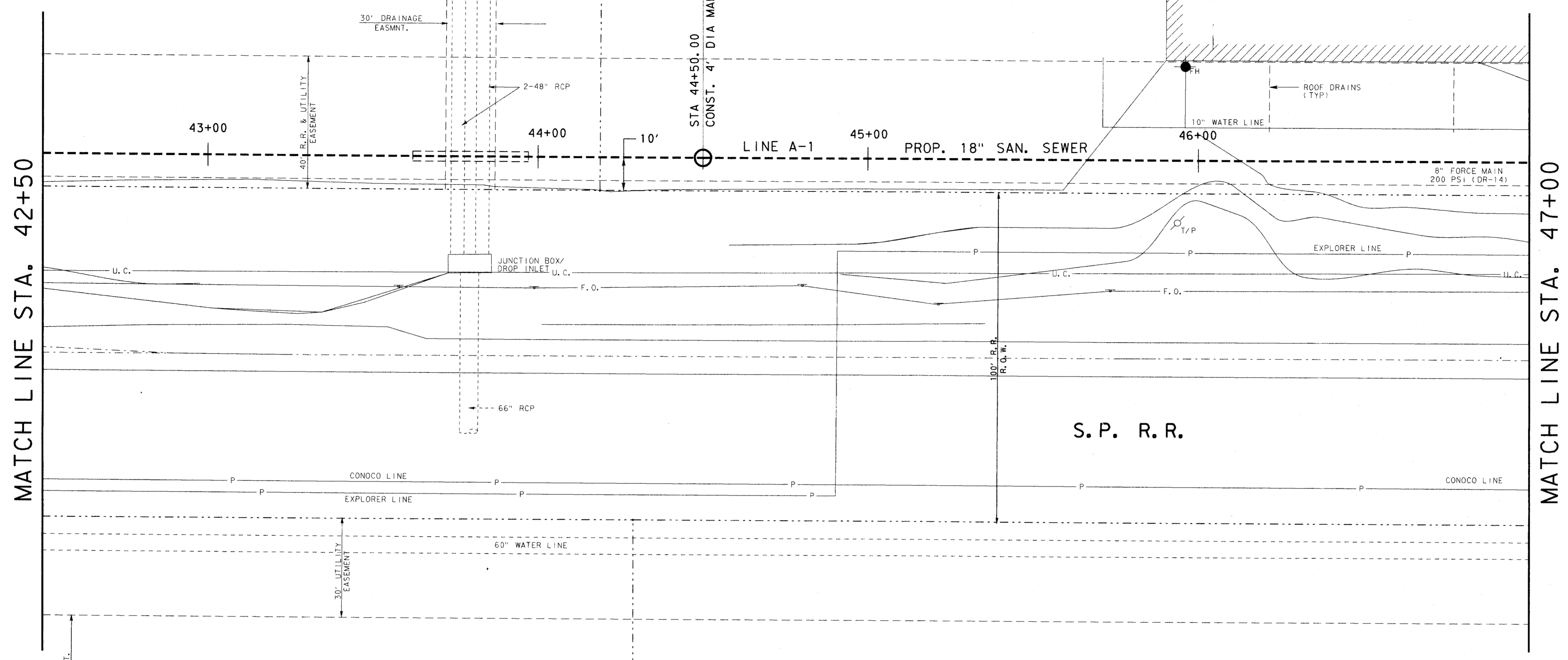
Consultants in Engineering, Architecture,
Planning and the Environment
CARTER & BURGESS, INC.
7950 EMBROOK DRIVE, SUITE 250
DALLAS, TX 75247-4961



Unit	Scale	Hor. 1/2" = 20'	Date	04-05-96
Designed	Checked	Vert. 1" = 5'	J. Lindner	J. Lindner
Drawn	Approved		R. Howman	J. Lindner
			Job No.	933276010
			Sheet	13 of 63

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY JOHN H. LINDNER, P.E., 64694, IN MARCH 1997.
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REVISIONS
 NO. DATE BY
 1 9-4-98 J.H.L.
 2
 3
 4

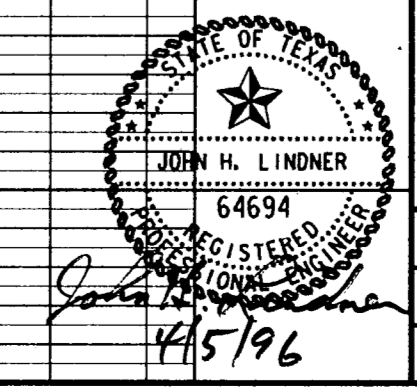


NO.	DATE	REVISION	APPROV.
1	9-4-98	AS BUILT DRAWING	J. H. L.
2			
3			
4			

TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LINE A-1
 FROM STATION 42+50 TO STATION 47+00



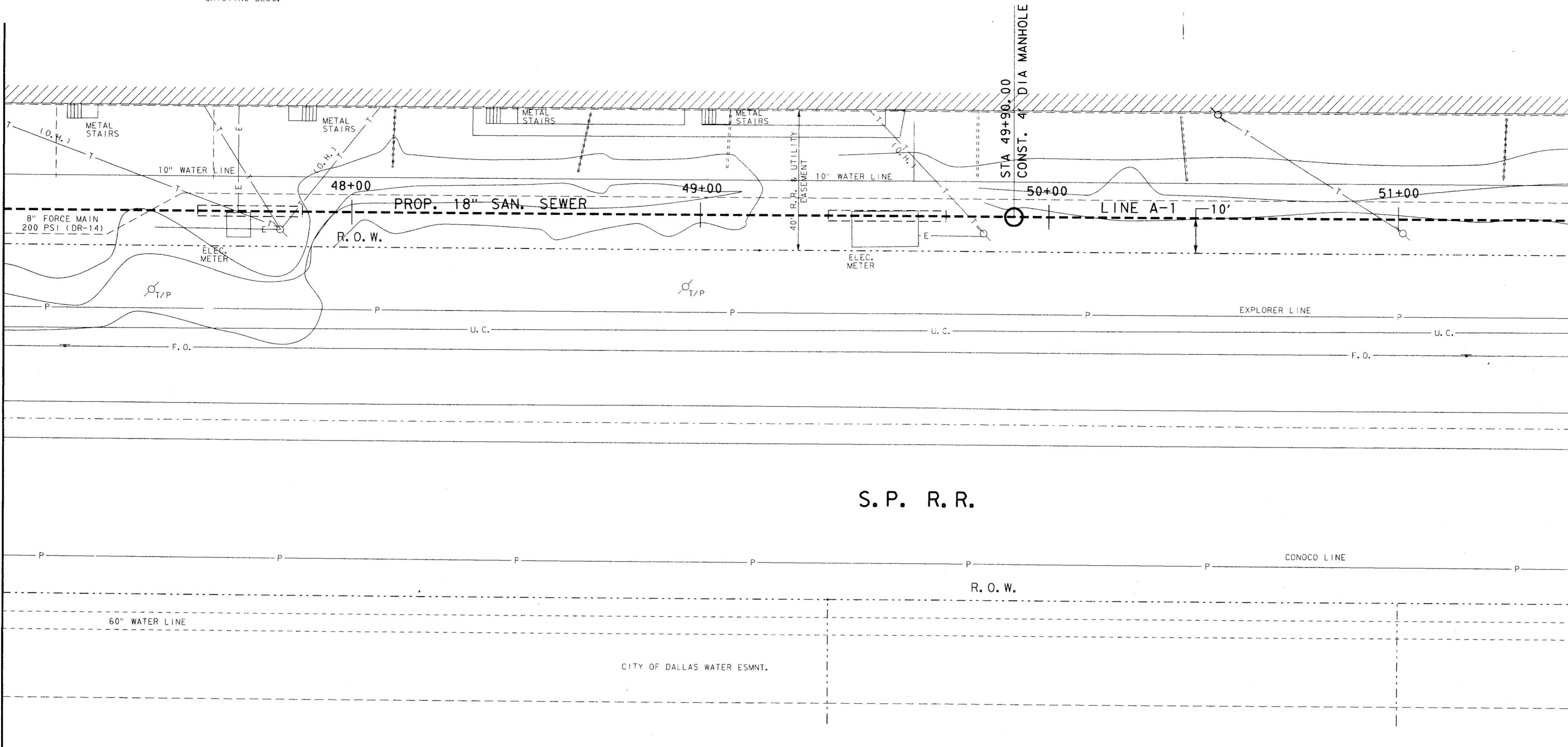
Carter & Burgess, Inc.
 7950 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4963



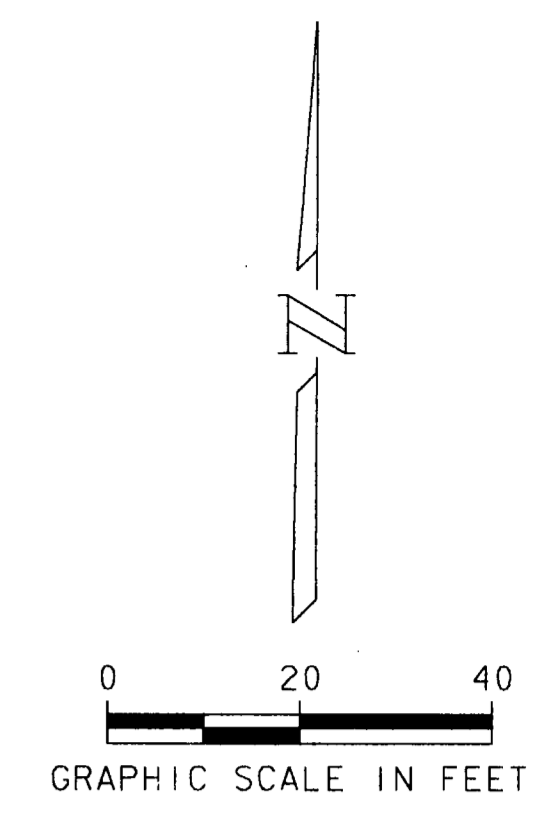
Unit	Scale	Horiz. 1"=20'	Date	04-05-96
Designed	J. Lindner	Ver. 1"=5'	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet 14 of 63

M. E. 001
 M. E. 002
 M. E. 003
 M. E. 004
 M. E. 005
 M. E. 006
 M. E. 007
 M. E. 008
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 M. E. 100

MATCH LINE STA. 47+00

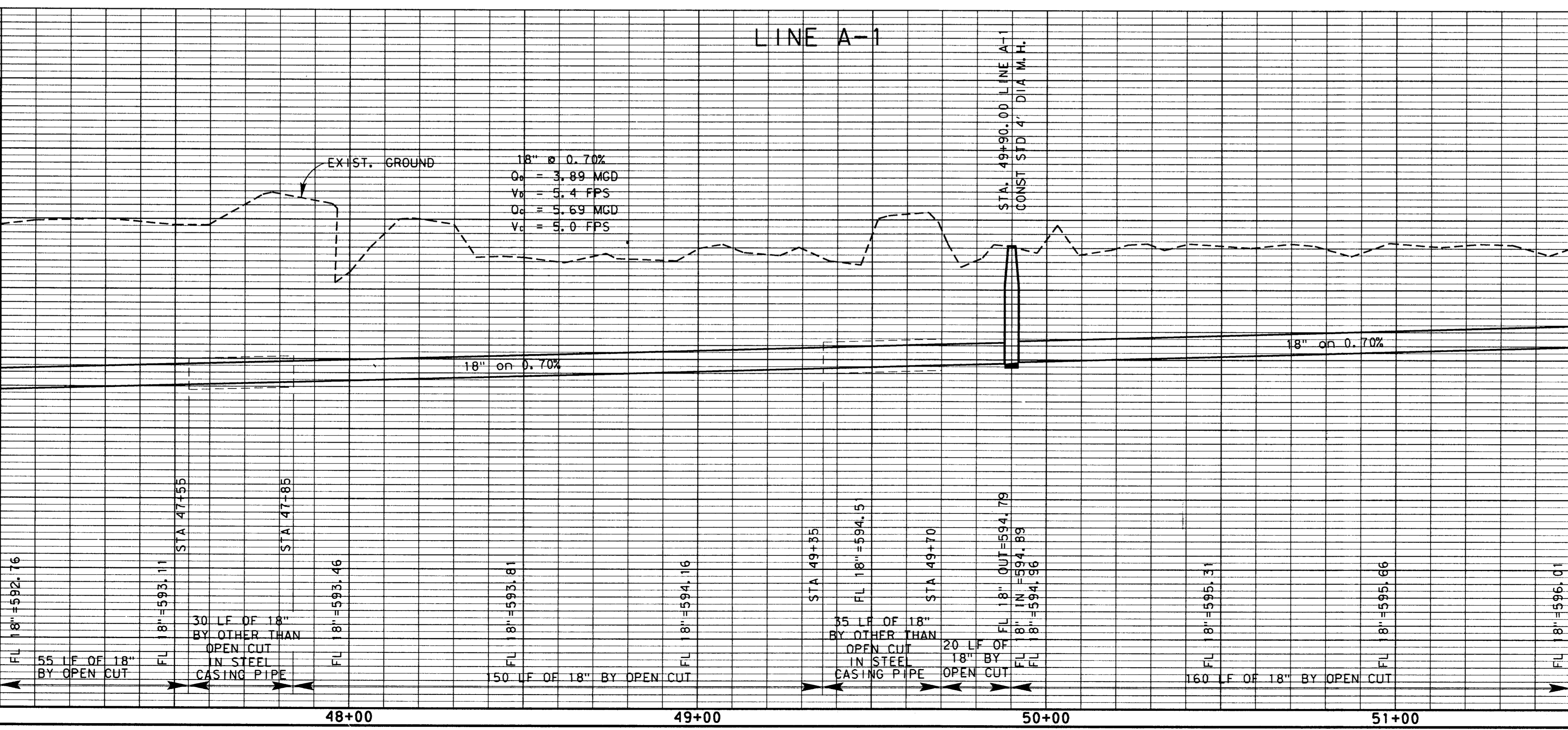


MATCH LINE STA. 51+50



S. P. R. R.

MATCH LINE STA. 47+00

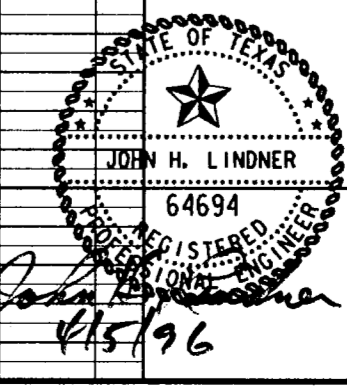


MATCH LINE STA. 51+50

4			
3			
2			
1	9-4-98	AS BUILT DRAWING	J. R. L.
NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LINE A-1
 FROM STATION 47+00 TO STATION 51+50

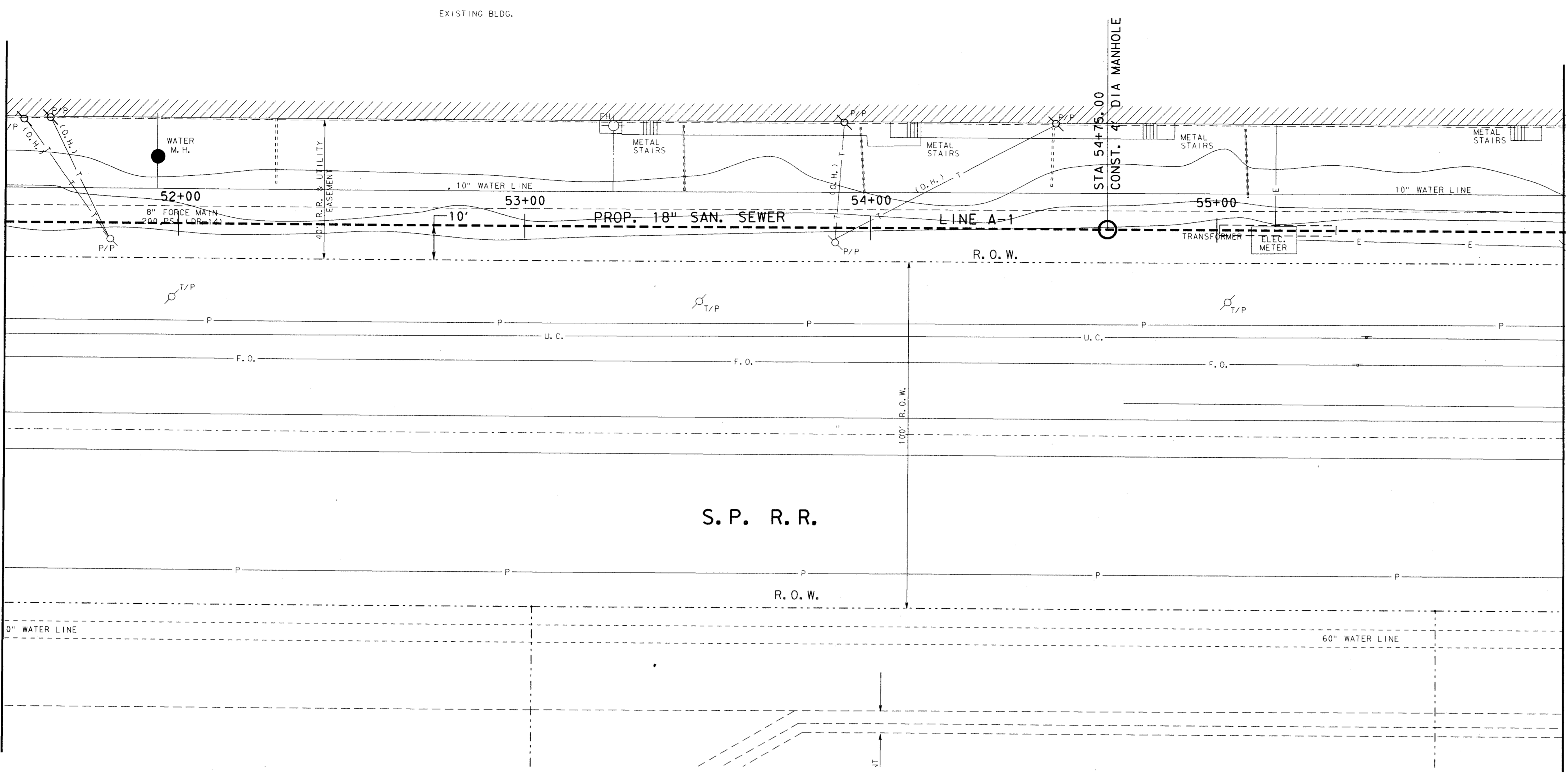
Carter Burgess
 Consultants in Engineering, Architecture,
 Planning and the Environment
 CARTER & BURGESS, INC.
 7550 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961



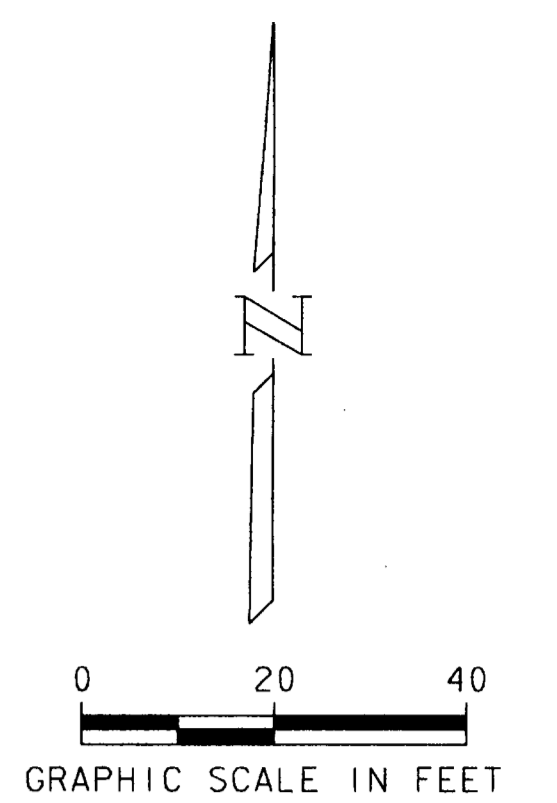
Unit	Scale	Hor'z. 1"=20' Vert. 1"=5'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No. 93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet 15 of 63

448000
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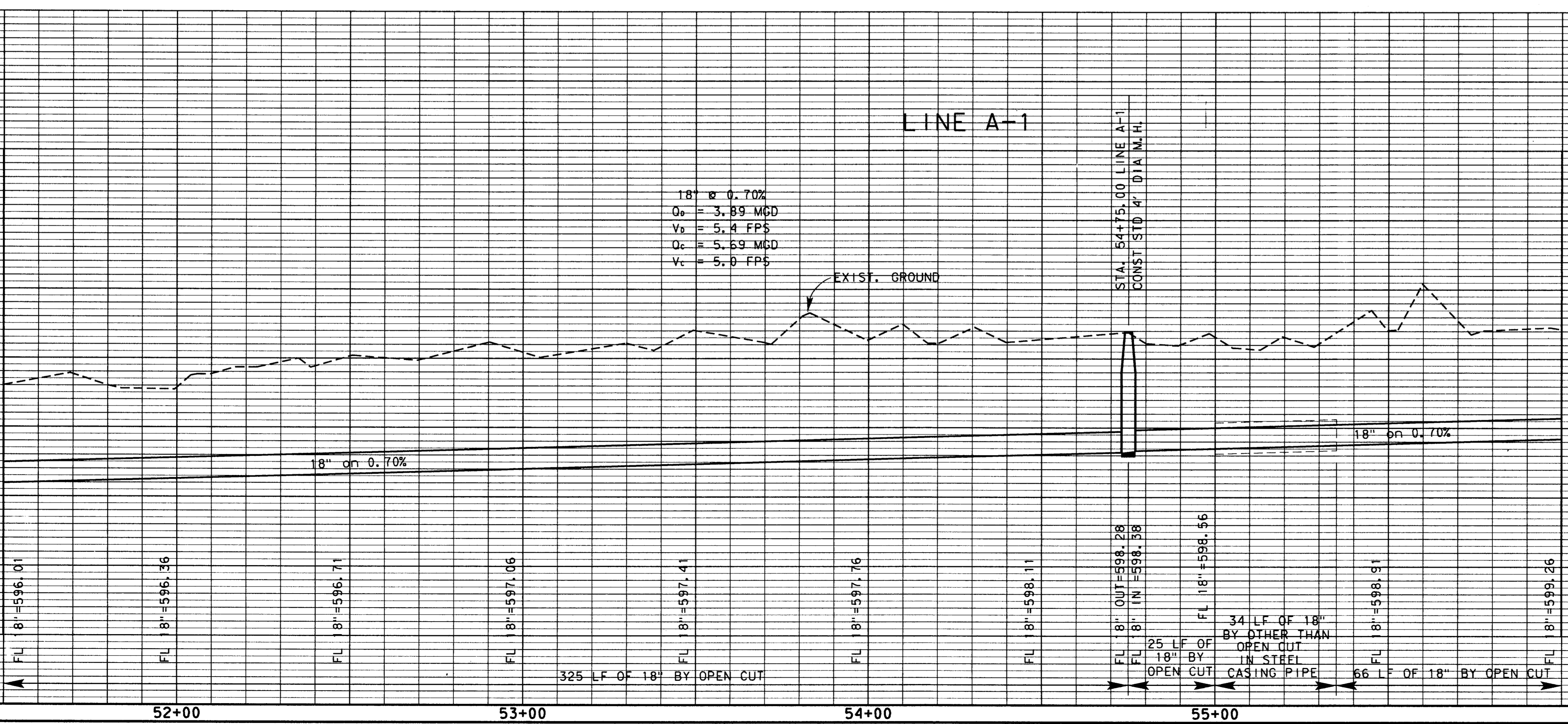
MATCH LINE STA. 51+50



MATCH LINE STA. 56+00



MATCH LINE STA. 51+50

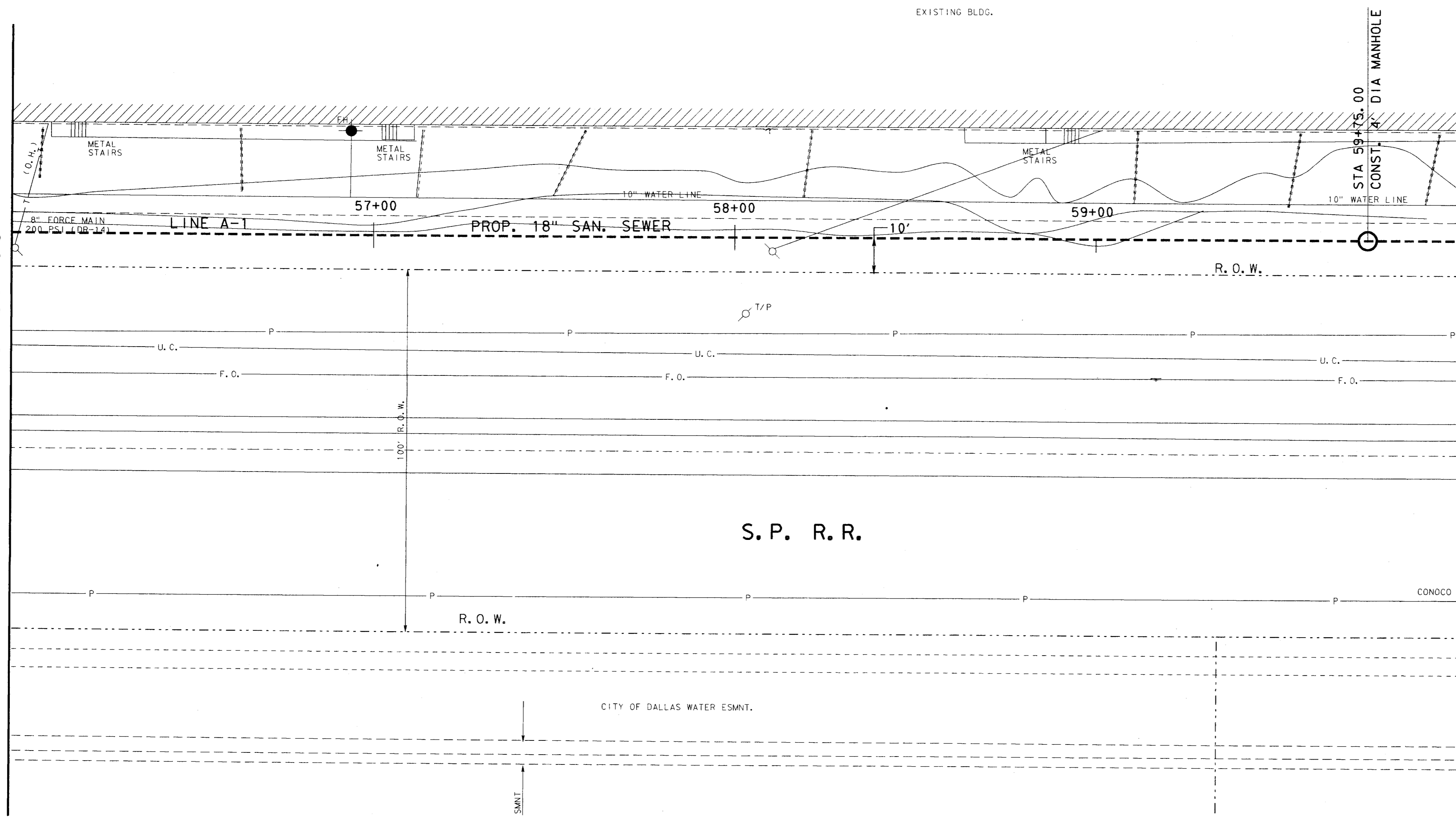


MATCH LINE STA. 56+00

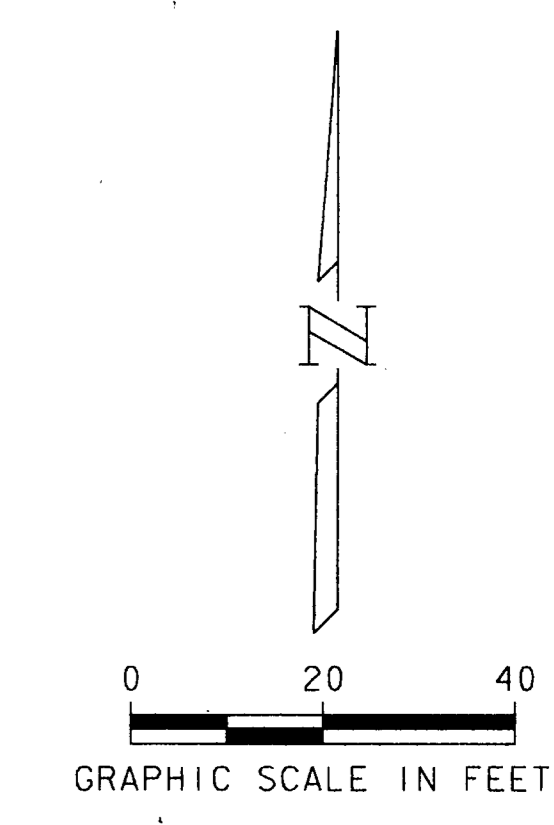
4			
3			
2			
1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1 FROM STATION 51+50 TO STATION 56+00			
Carter & Burgess <small>Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	Horiz. 1"=20' Vert. 1"=5'	Date 04-05-96
Designed J. Lindner	Checked J. Lindner	Job No. 93327601D	
Drawn R. Howman	Approved J. Lindner	Sheet 16 of 63	
32765513.DGN			

REVISIONS
 NO. DATE DESCRIPTION
 1 9-4-98 AS BUILT DRAWING
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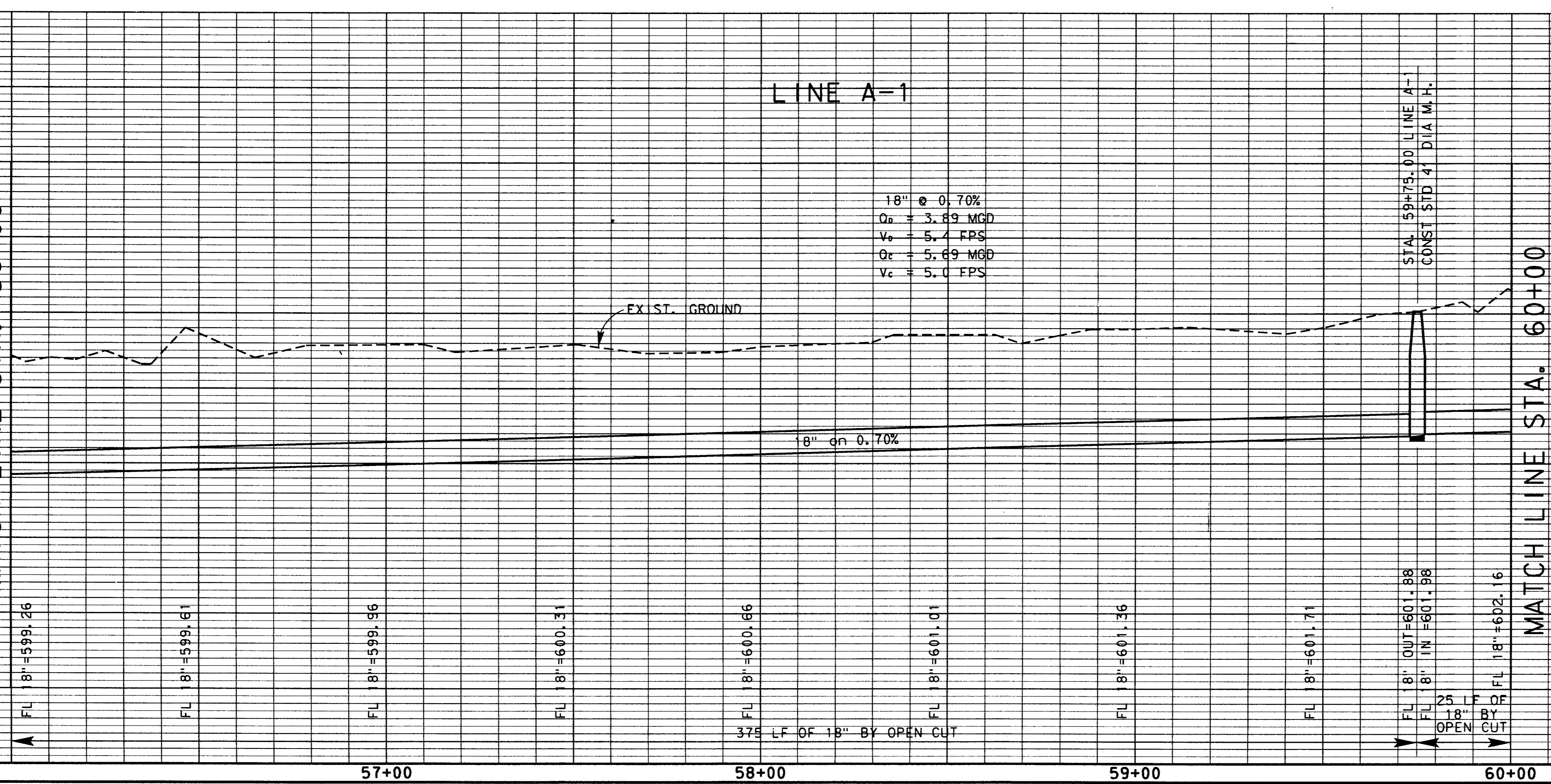
MATCH LINE STA. 56+00



MATCH LINE STA. 60+00

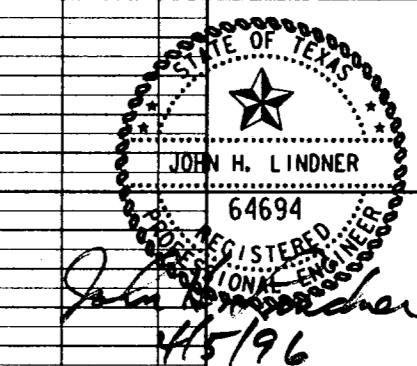


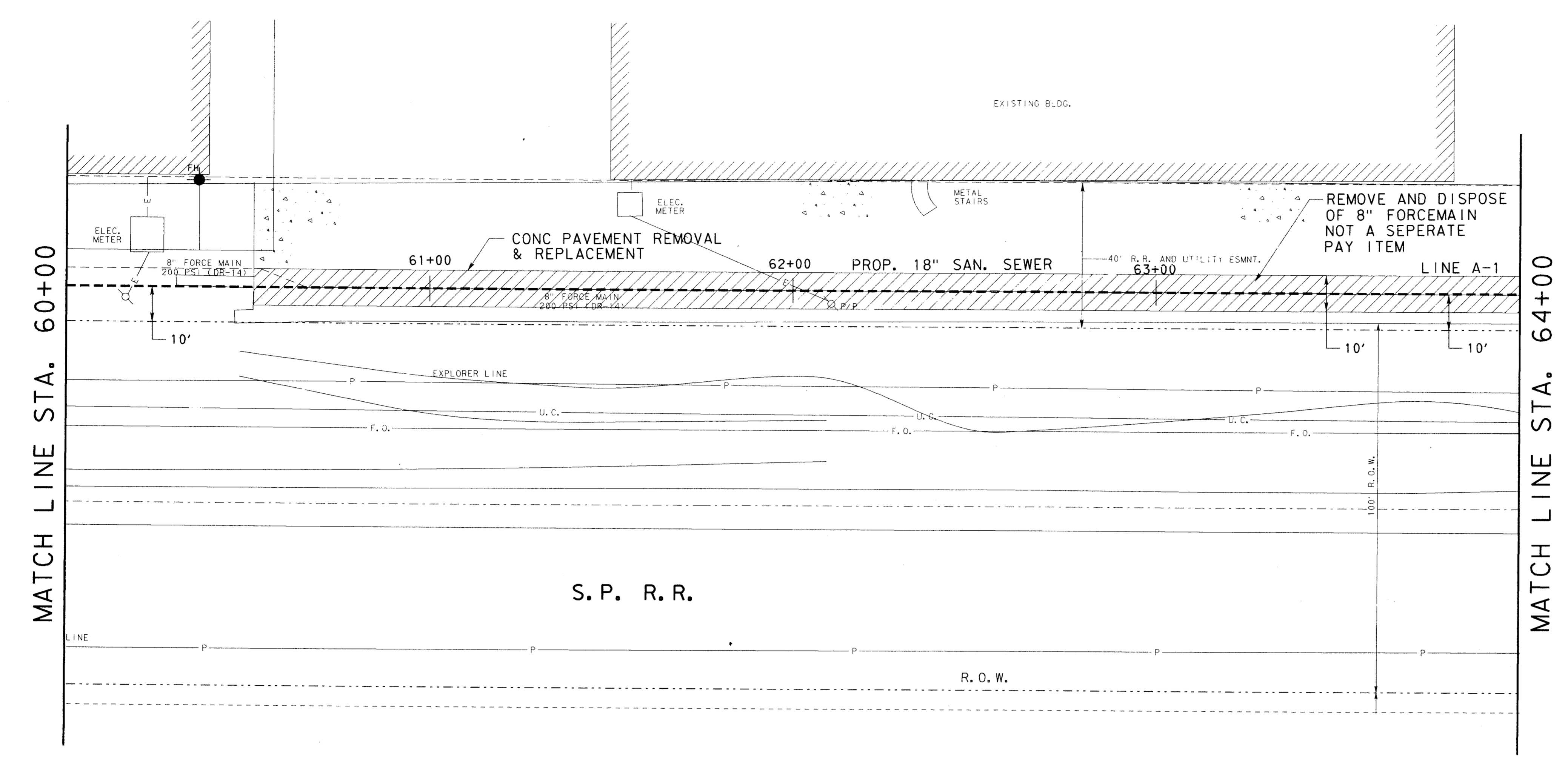
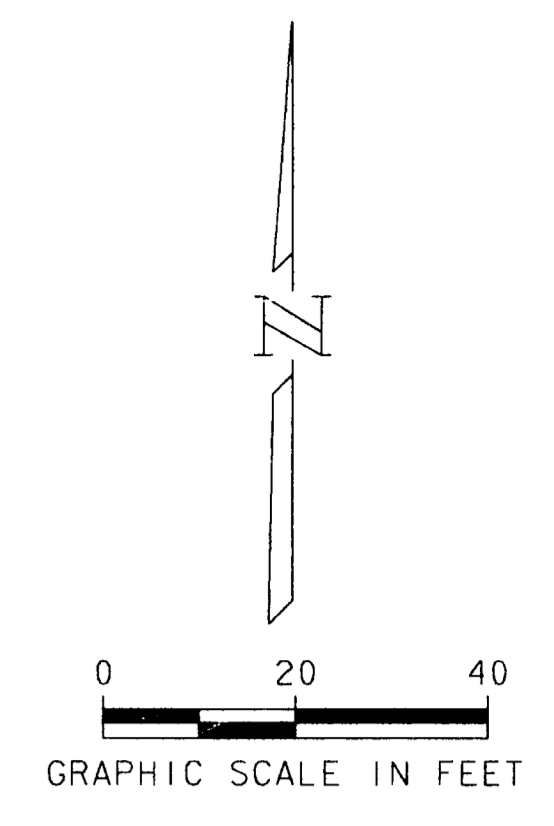
MATCH LINE STA. 56+00



MATCH LINE STA. 60+00

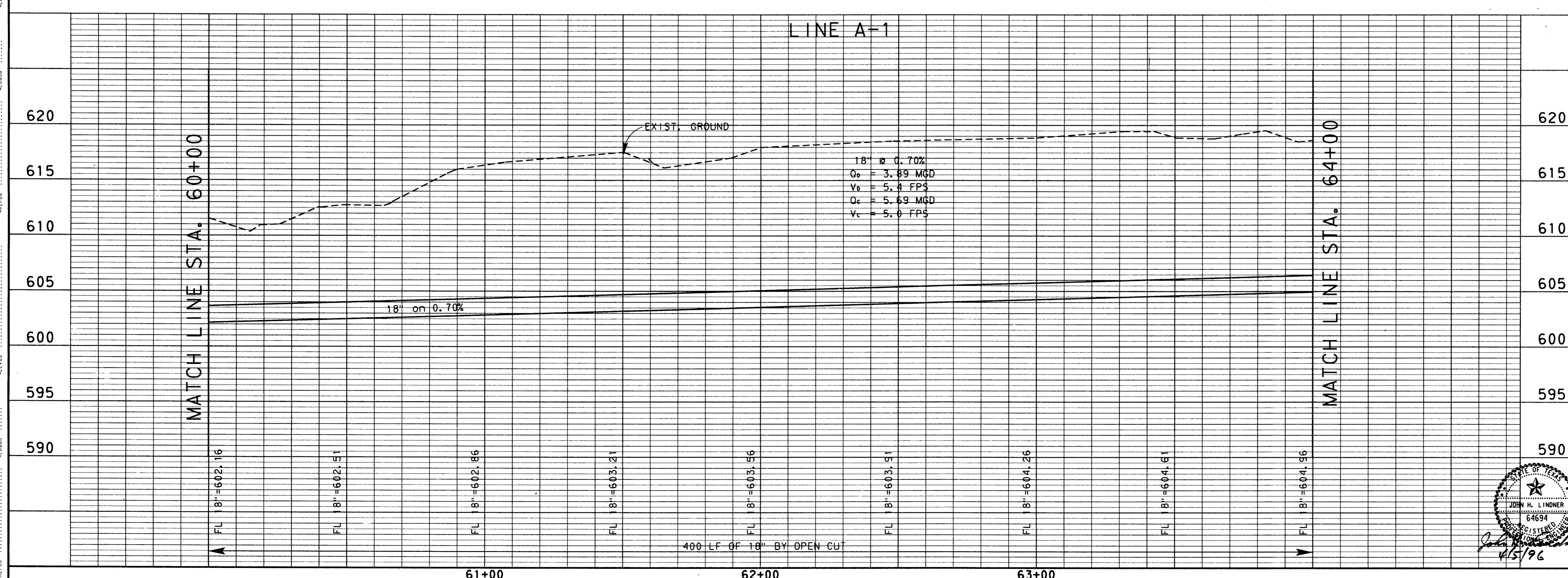
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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1 FROM STATION 56+00 TO STATION 60+00			
 Carter & Burgess <small>Consultants in Engineering, Architecture, Planning and the Environment. CARTER & BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	Horiz. 1"=20' Vert. 1"=5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D	Sheet	17 of 63
		32765514.DGN	





NOTE:
1. CONTRACTOR SHALL MAINTAIN FIRE LANE ACCESS AROUND EXISTING BUILDING AT ALL TIMES.

REVISIONS:
 NO. DATE BY REASON
 1 9-4-98 J.H.L. AS BUILT DRAWING
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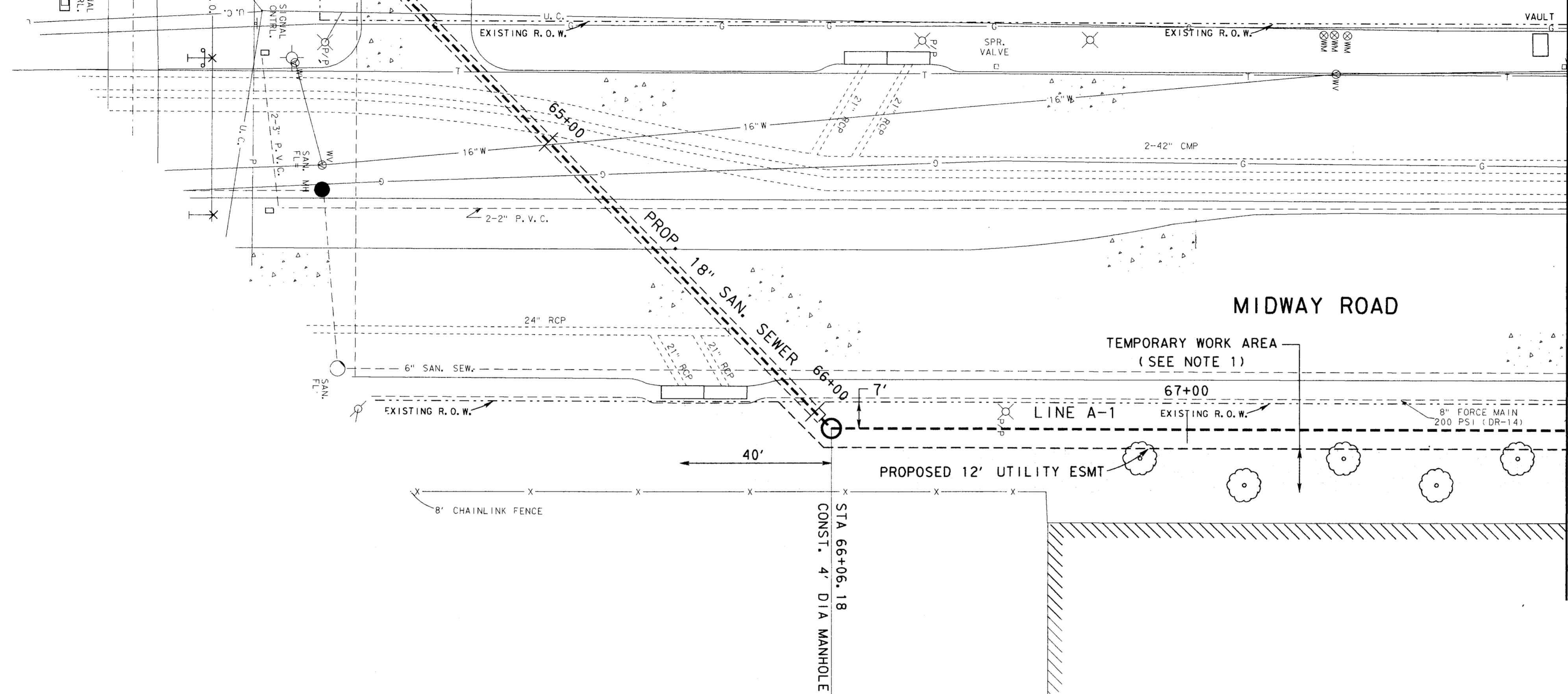
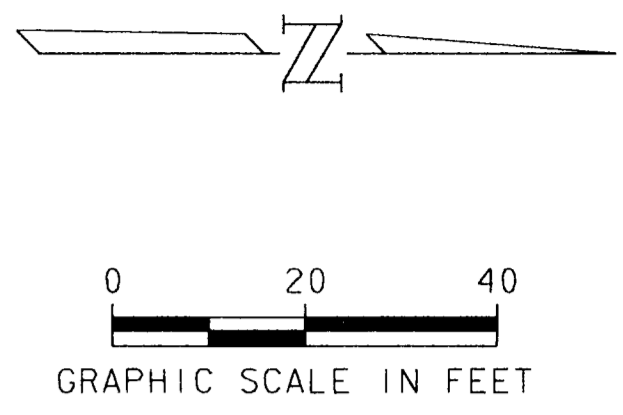
NO.	DATE	REVISION	APPROV.
1	9-4-98	AS BUILT DRAWING	J.H.L.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1 FROM STATION 60+00 TO STATION 64+00			
Carter-Burgess <small>Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	Horiz. 1"=20' Vert. 1"=5'	Date 04-05-96
Designed J. Lindner	Checked J. Lindner	Job No. 93327601D	
Drawn R. Howman	Approved J. Lindner	Sheet 18 of 63	

MATCH LINE STA. 64+00

S.P. R.R.

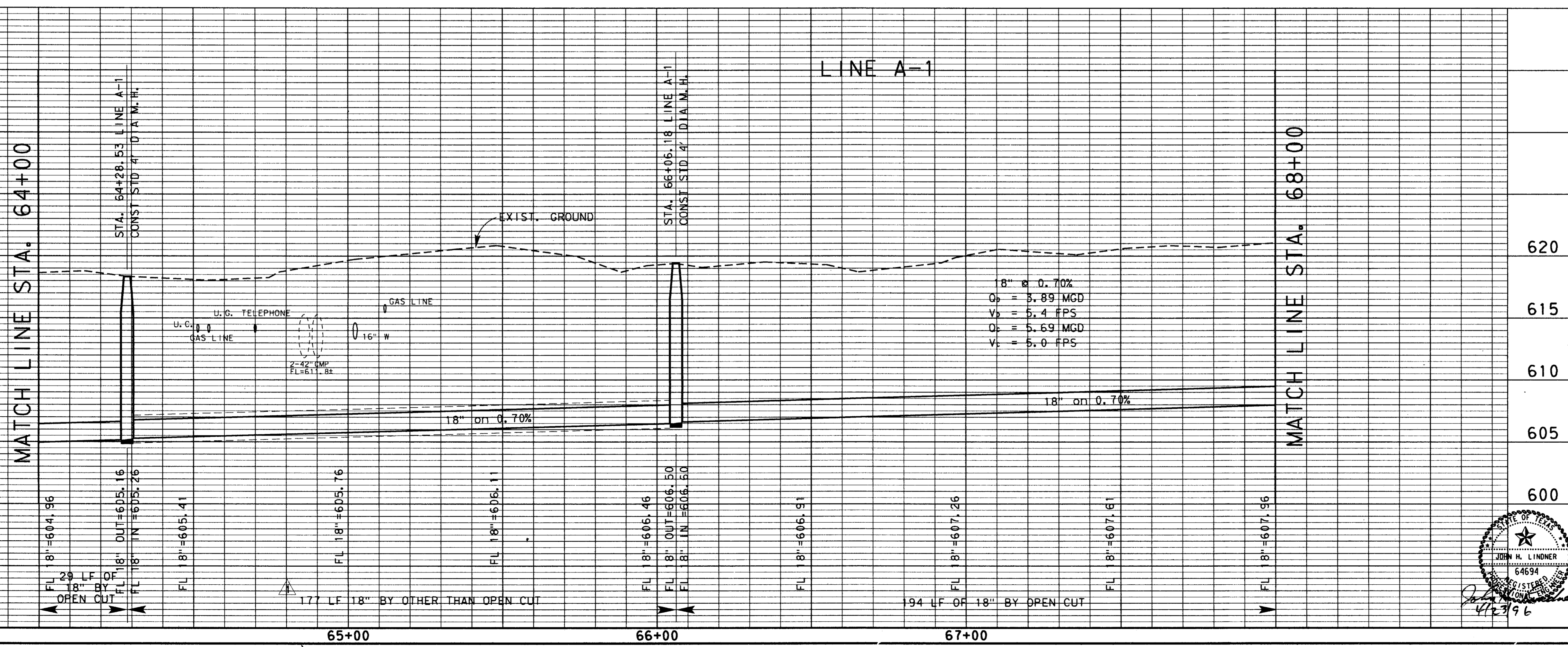
CONCRETE REMOVAL & REPLACEMENT

STA 64+28.53
CONST. 4" DIA MANHOLE
CONST. TO MAINT. ACCESS
IN DRIVE

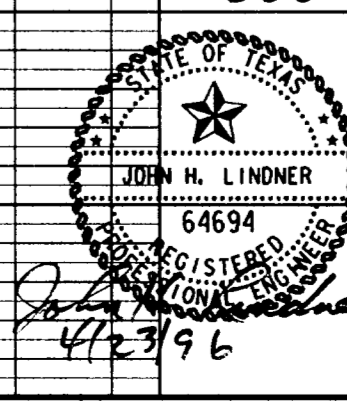


MATCH LINE STA. 68+00

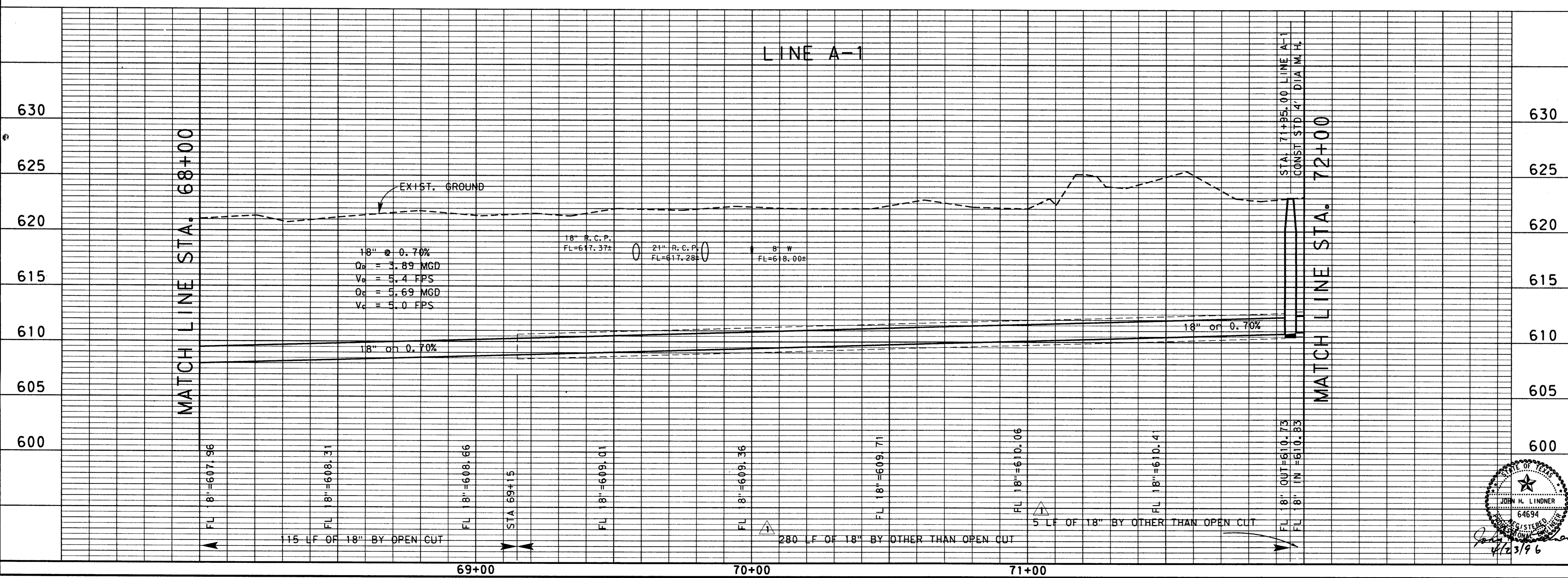
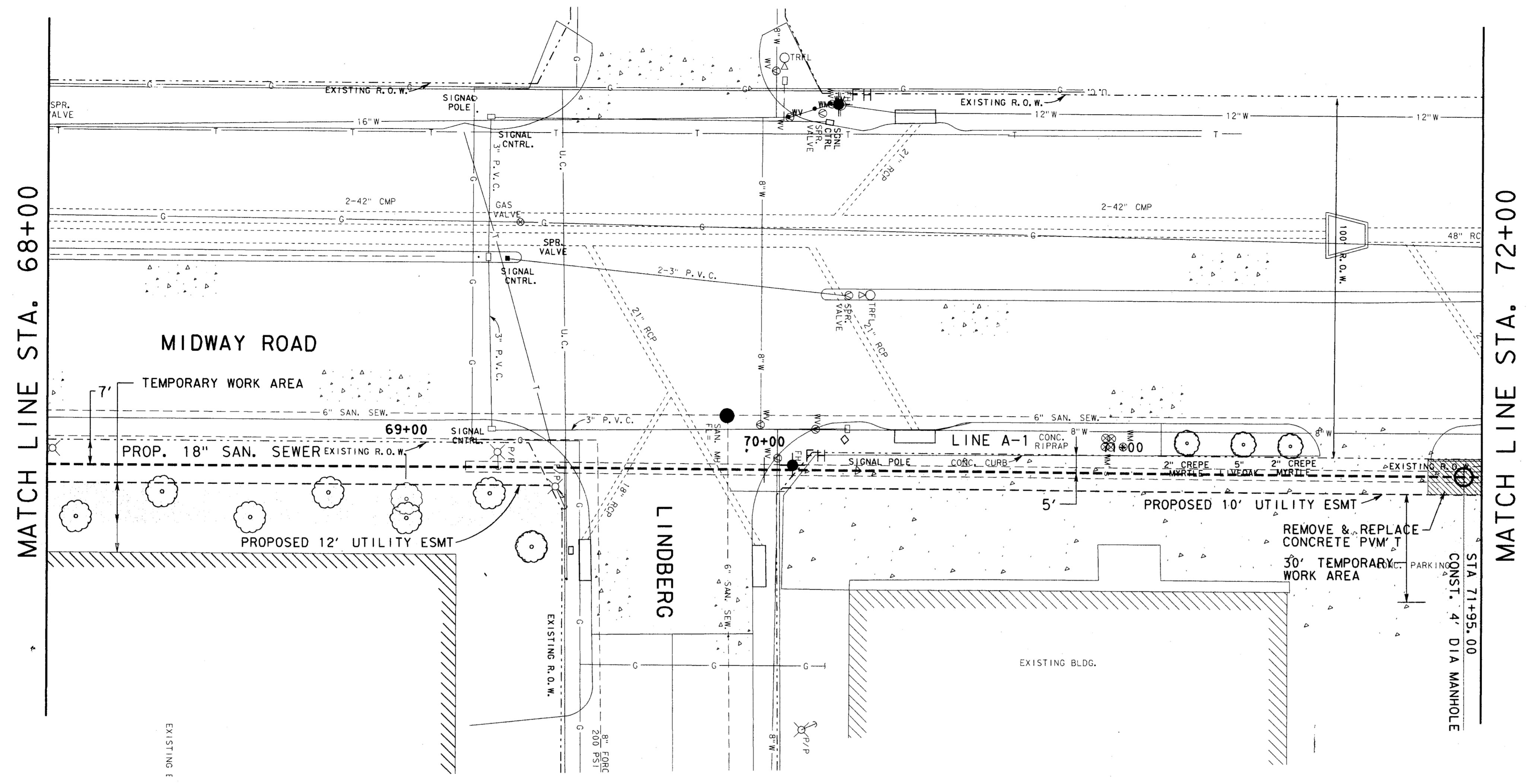
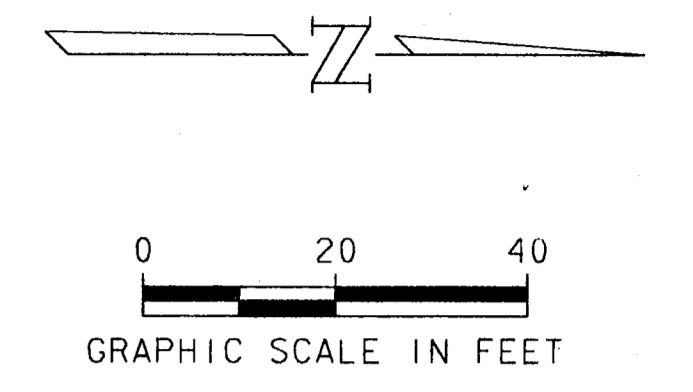
NOTE:
1. CONTRACTOR SHALL REMOVE AND REPLACE WEST ROW OF EXISTING TREES AS NECESSARY TO INSTALL PROPOSED SEWER LINE AND SHALL CONSTRUCT TEMPORARY FENCING TO PROTECT EXIST ROW OF TREES. NOT A SEPERATE PAY ITEM.



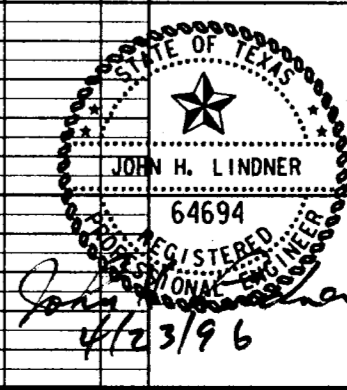
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2	9-4-98	AS BUILT DRAWING	J. H. L.
1	4-23-96	ADDENDUM NO. 1	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1 FROM STATION 64+00 TO STATION 68+00			
Carter Burgess Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4960			
Unit	Scale	Hor 1/2" = 1' = 20' Ver 1" = 5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
		Job No.	933276010
		Sheet	19 of 63
32765516.DGN			



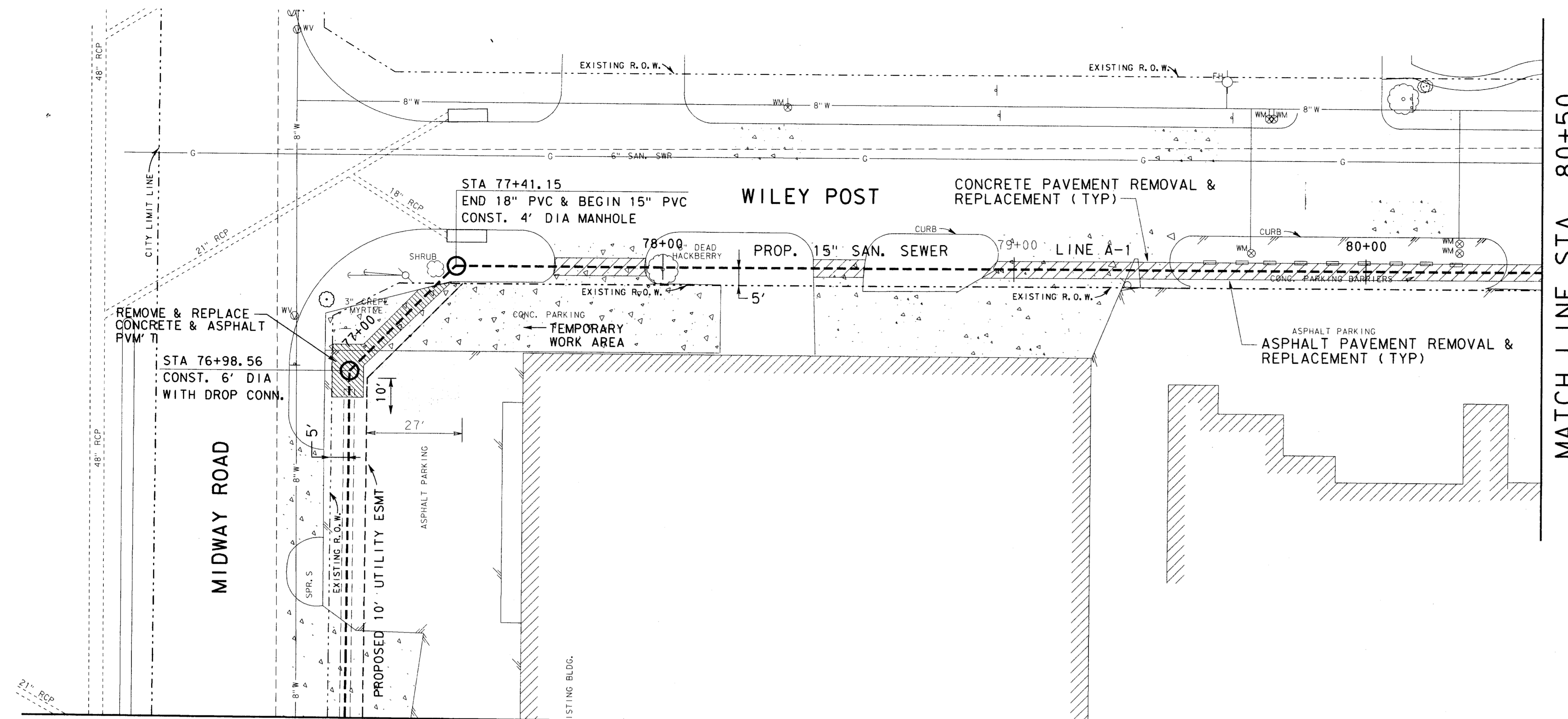
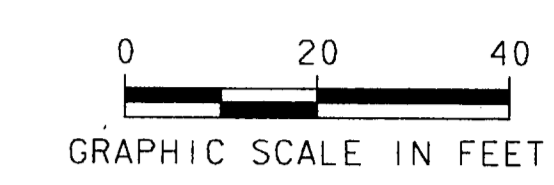
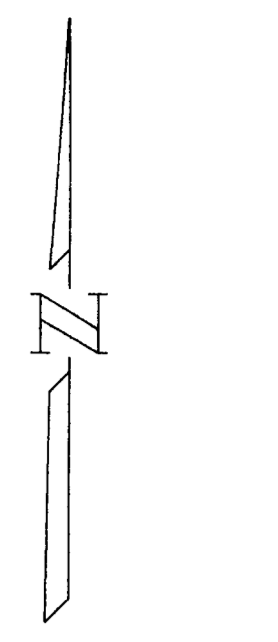
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2	9-4-98	AS BUILT DRAWING	J. H. L.
1	4-23-96	ADDENDUM NO. 1	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1 FROM STATION 68+00 TO STATION 72+00			
Carter & Burgess <small>Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	Horiz. 1"=20' Vert. 1"=5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D		Sheet 20 of 63
			32765517.DGN

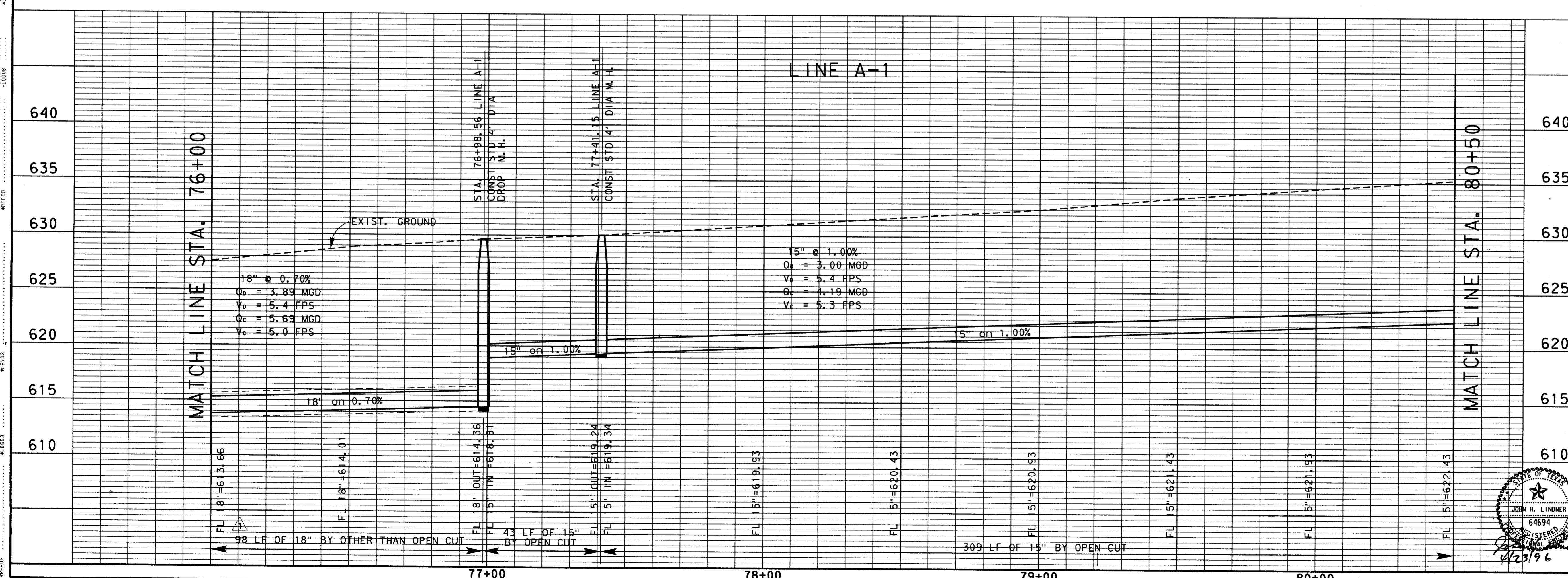


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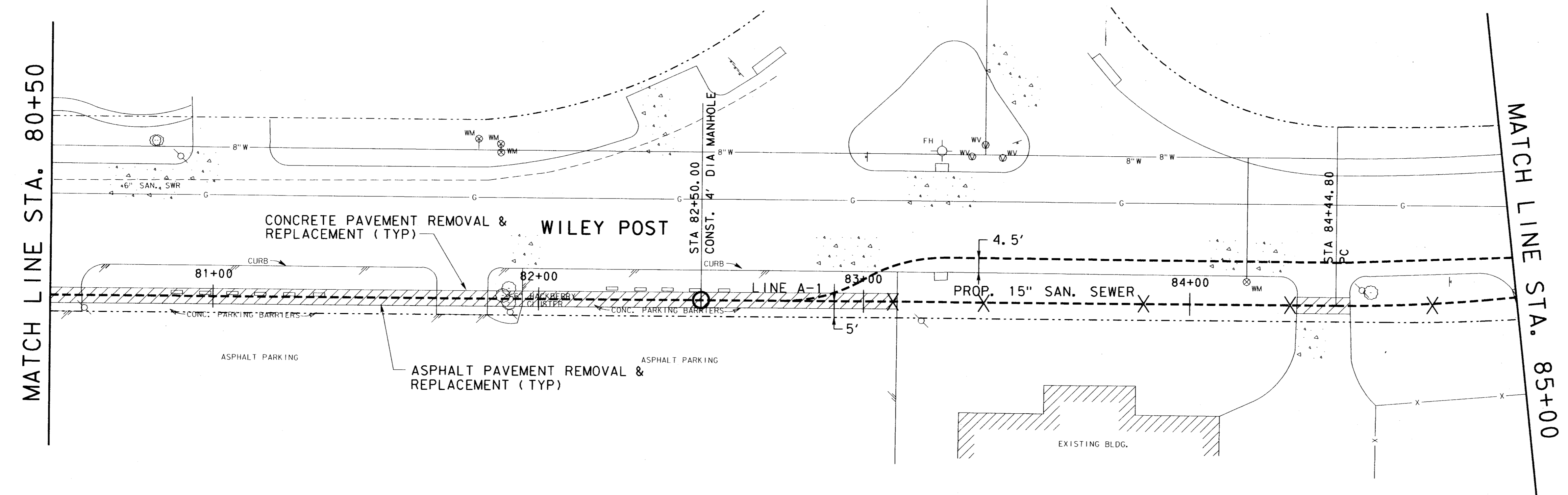
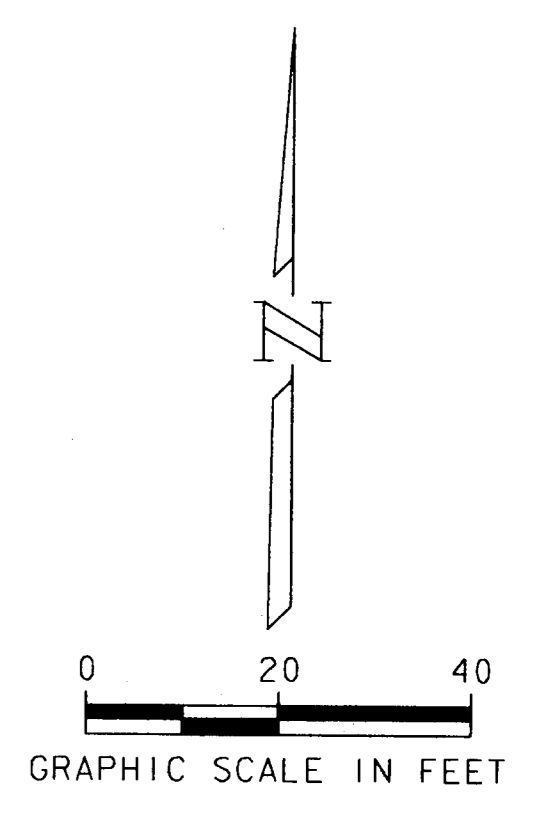
MATCH LINE STA. 76+00

- NOTE:**
- CONTRACTOR SHALL NOT CLOSE MORE THAN ONE DRIVEWAY TO A GIVEN BUSINESS AT A TIME. IMMEDIATELY UPON PIPE INSTALLATION, CONTRACTOR SHALL BACKFILL AND PLACE TEMPORARY ASPHALT OR STEEL PLATES. NOT A SEPARATE PAY ITEM.

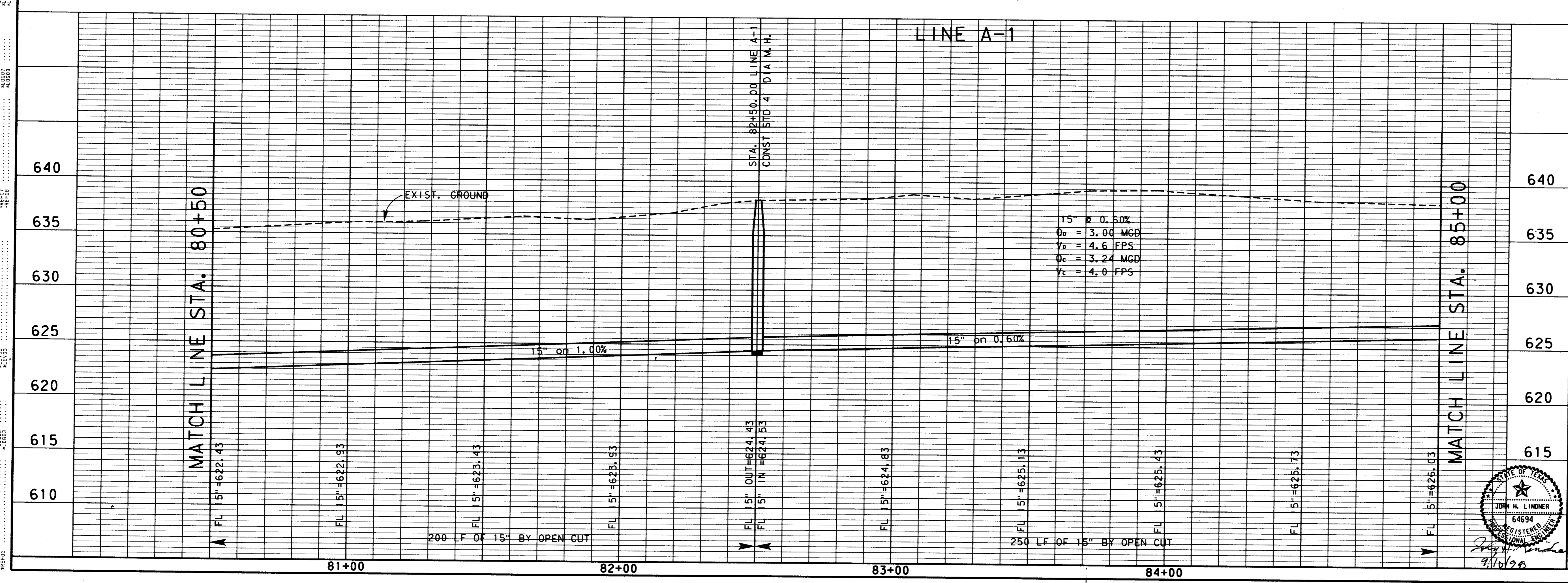


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2	9-4-98	AS BUILT DRAWING	J. H. L.
1	4-23-96	ADDENDUM NO. 1	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1 FROM STATION 76+00 TO STATION 80+50			
Carter & Burgess Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 EMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961			
Unit	Scale	Hor. 1" = 20' Vert. 1" = 5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
		Job No.	93327601D
		Sheet	22 of 63

REVISIONS
 NO. DATE BY
 1 9-4-98 J.L.
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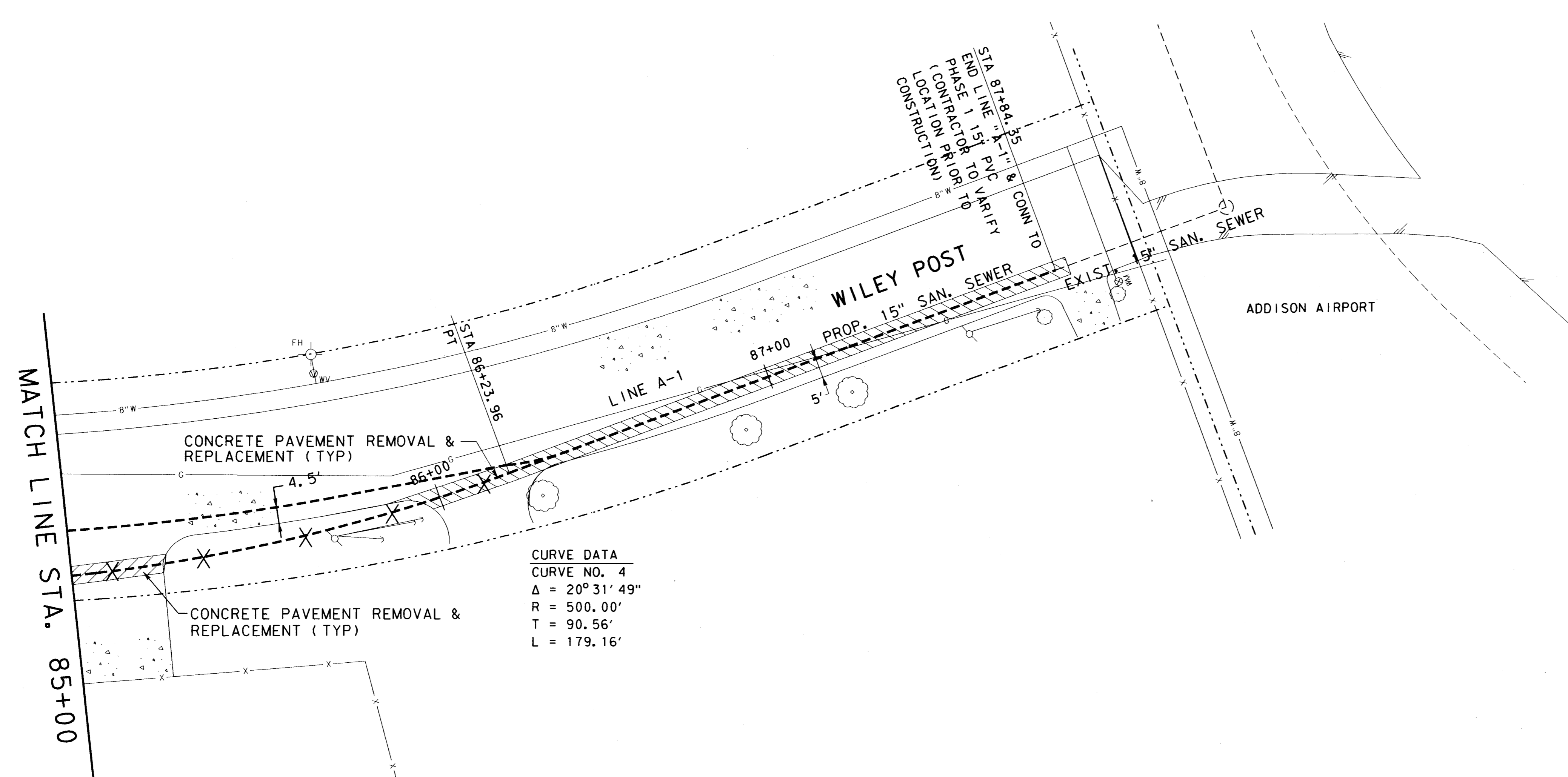
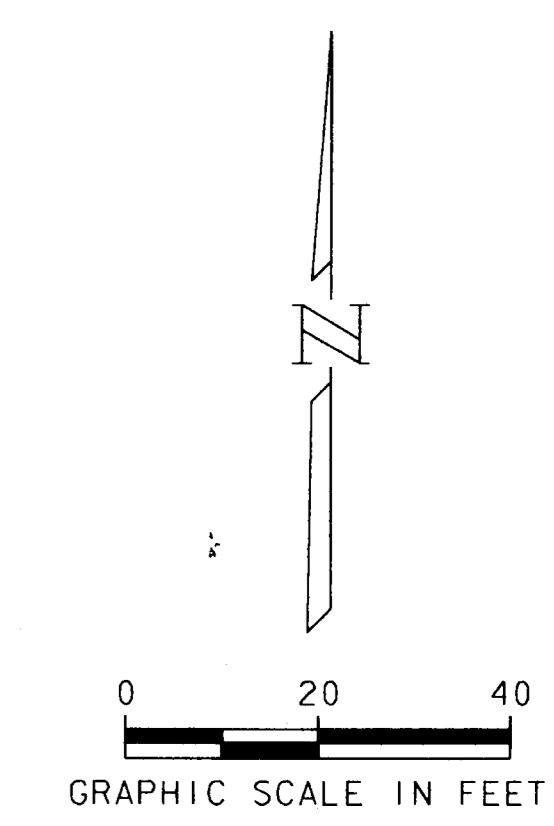
NOTE:
 1. CONTRACTOR SHALL NOT CLOSE MORE THAN ONE DRIVEWAY TO A GIVEN BUSINESS AT A TIME. IMMEDIATELY UPON PIPE INSTALLATION, CONTRACTOR SHALL BACKFILL AND PLACE TEMPORARY ASPHALT OR STEEL PLATES. NOT A SEPARATE PAY ITEM.



$15" \times 0.60\%$
 $Q_0 = 3.00 \text{ MGD}$
 $V_0 = 4.6 \text{ FPS}$
 $Q_c = 3.24 \text{ MGD}$
 $V_c = 4.0 \text{ FPS}$

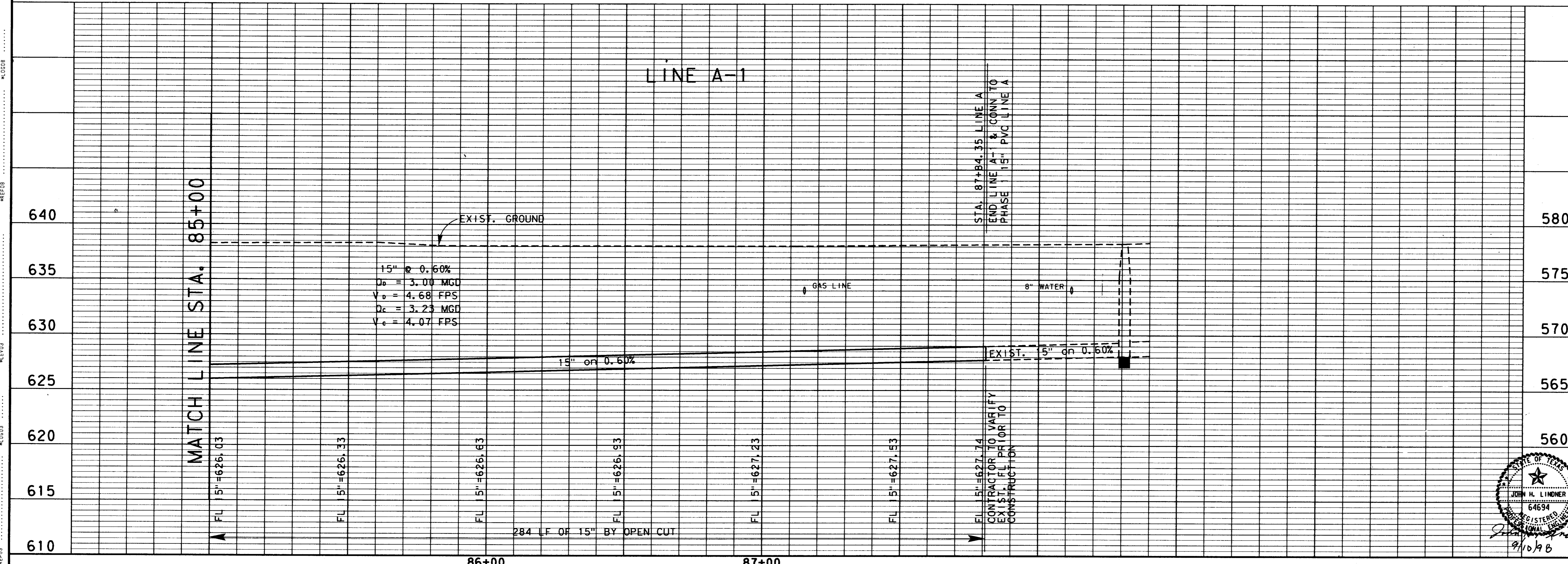
NO.	DATE	REVISION	APPROV.
1	9-4-98	AS BUILT DRAWING	J. H. L.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1			
FROM STATION 80+50 TO STATION 85+00			
 Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 EMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961			
Unit	Scale	Horiz. 1"=20' Vert. 1"=5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D		Sheet 23 of 63

REVISIONS
 NO. DATE BY
 1 9-4-98 J.H.L.
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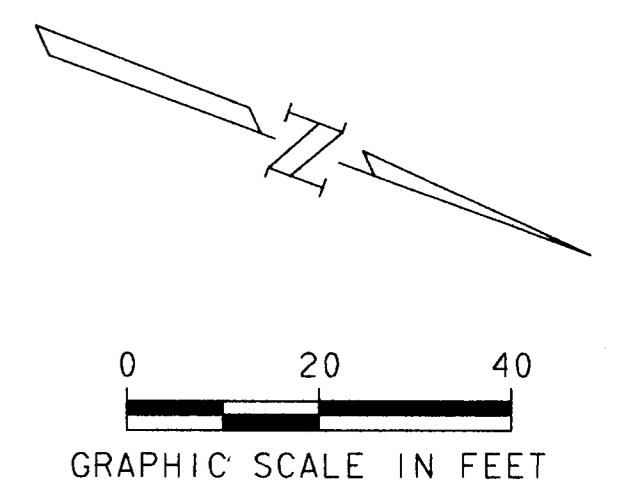
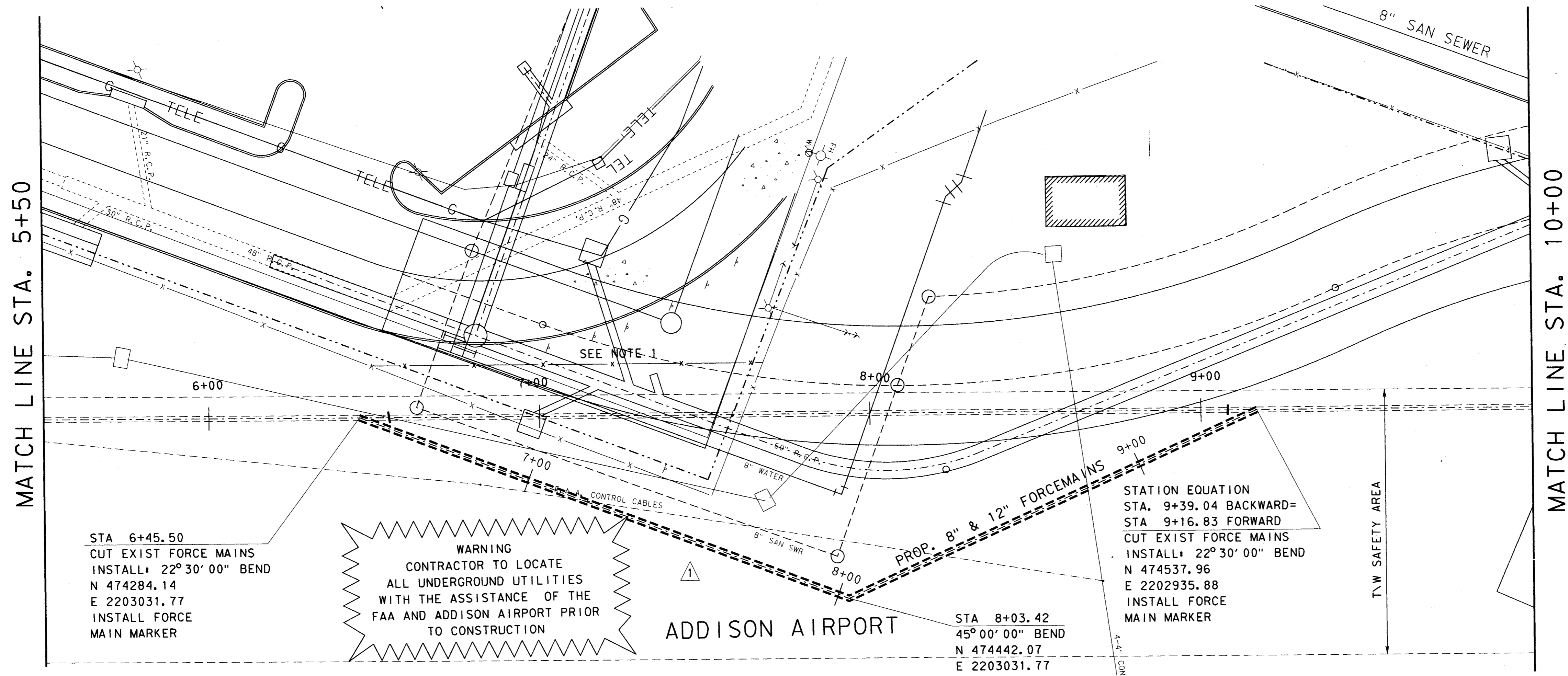
CURVE DATA
 CURVE NO. 4
 $\Delta = 20^\circ 31' 49''$
 $R = 500.00'$
 $T = 90.56'$
 $L = 179.16'$

- NOTE:**
- CONTRACTOR SHALL NOT CLOSE MORE THAN ONE DRIVEWAY TO A GIVEN BUSINESS AT A TIME. IMMEDIATELY UPON PIPE INSTALLATION, CONTRACTOR SHALL BACKFILL AND PLACE TEMPORARY ASPHALT OR STEEL PLATES, NOT A SEPARATE PAY ITEM.

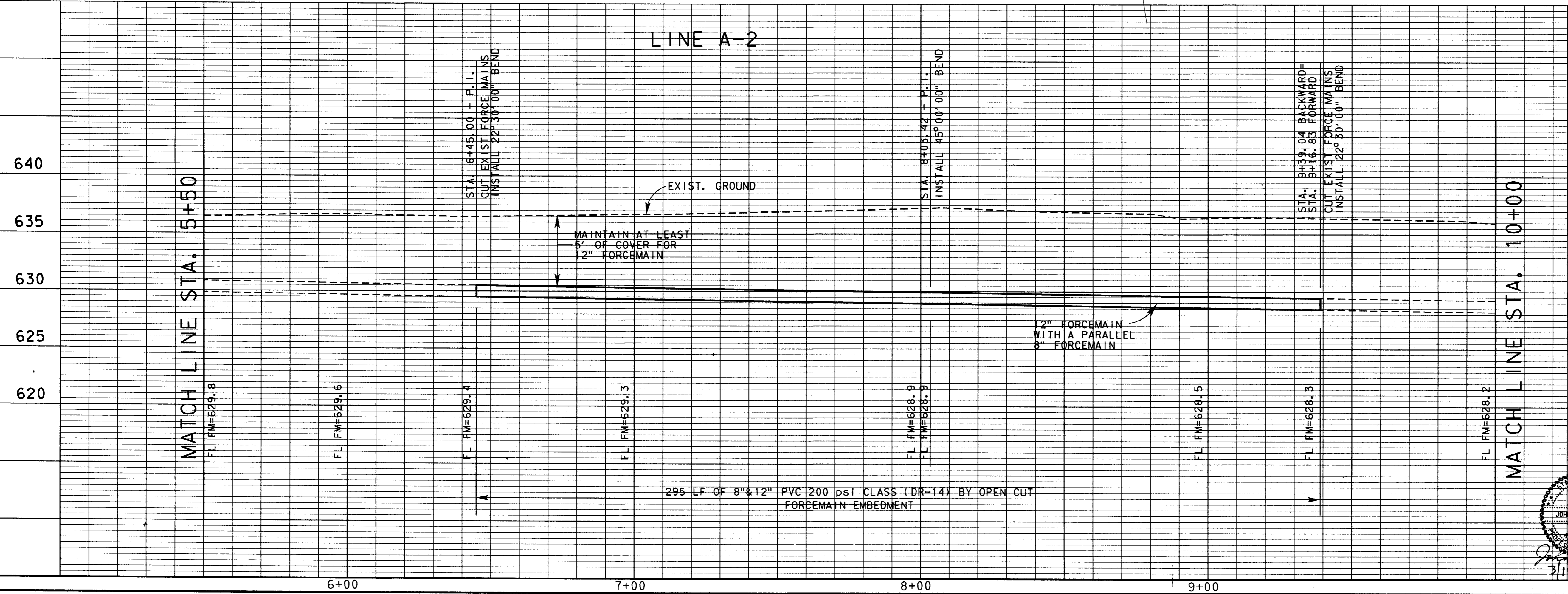


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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-1 FROM STATION 85+00 TO STATION 87+84.35			
 Carter & Burgess <small>Consultants in Engineering, Architecture, Planning and the Environment</small> CARTER & BURGESS, INC. <small>7950 EMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	Hor. 1/2" = 20' Vert. 1" = 5'	Date 04-05-96
Designed J. Lindner	Checked J. Lindner	Job No. 93327601D	
Drawn R. Howman	Approved J. Lindner	Sheet 24 of 63	

REVISIONS:
 NO. DATE BY
 1 3/12/97 J.H.L.
 2 9-4-98 J.H.L.
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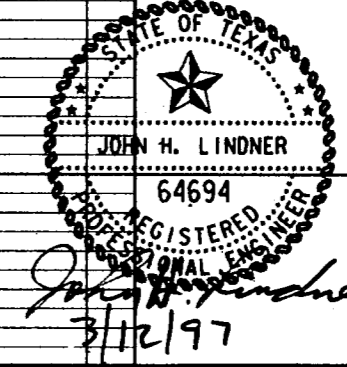
NOTE:
 1. CONTRACTOR SHALL INSTALL TEMPORARY FENCE
 PRIOR TO REMOVING EXIST FENCE FOR CONSTRUCTION.
 AFTER FORCEMAIN INSTALLATION, CONTRACTOR SHALL
 REINSTALL PERMANENT FENCE AND REMOVE TEMPORARY
 FENCE. FENCING IS TO BE EQUAL TO EXISTING FENCE.



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2	9-4-98	AS BUILT DRAWING	J. H. L.
1	3/12/97	REALIGNMENT BY CHANGE ORDER	J. H. L.
NO.	DATE	REVISION	APPROV.

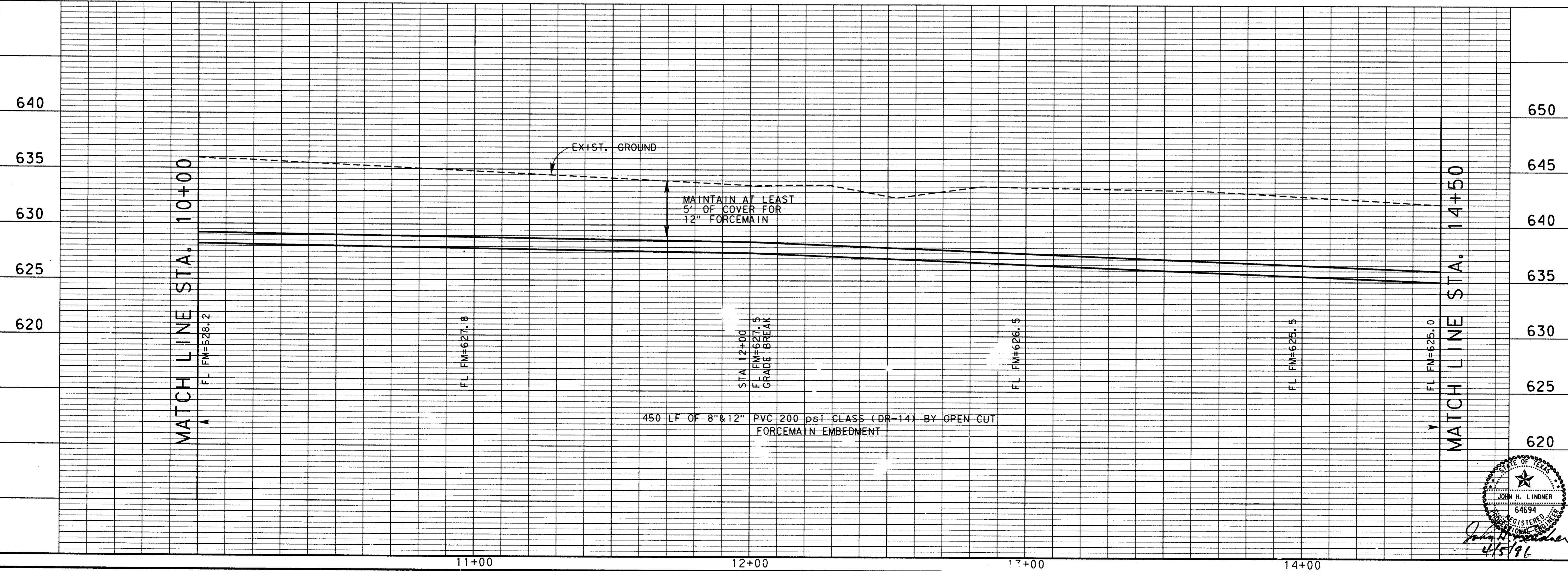
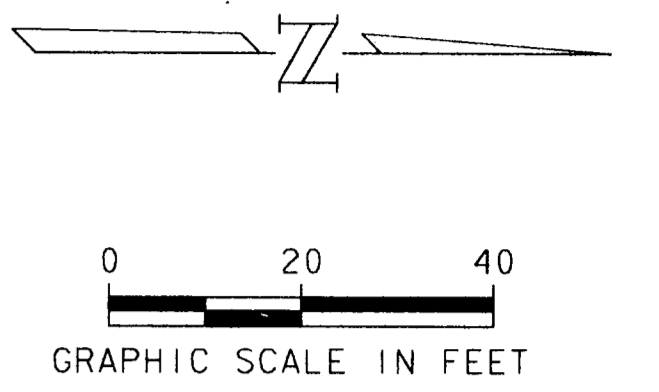
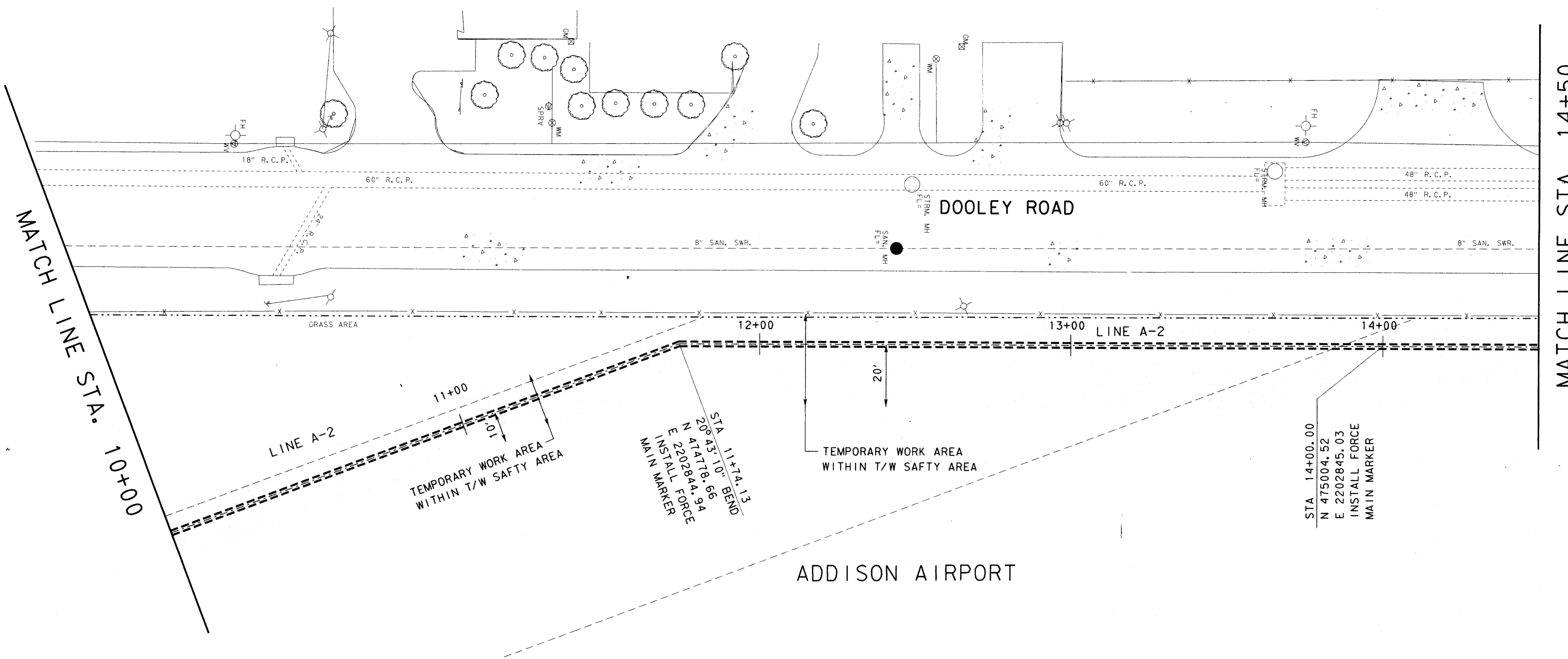
TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LINE A-2
 FROM STATION 5+50 TO STATION 10+00

Carter Burgess
 Consultants in Engineering, Architecture,
 Planning and the Environment
 CARTER & BURGESS, INC.
 7950 ELMERWOOD DRIVE, SUITE 250
 DALLAS, TX 75247-4961

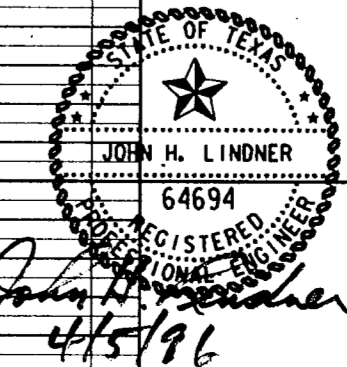


Unit	Scale	Hor. 1"=20' Vert. 1"=5'	Date	04-05-96	
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	26 of 63

REVISIONS
 NO. DATE BY
 1 5-4-98 AS BUILT DRAWING J.H.L.
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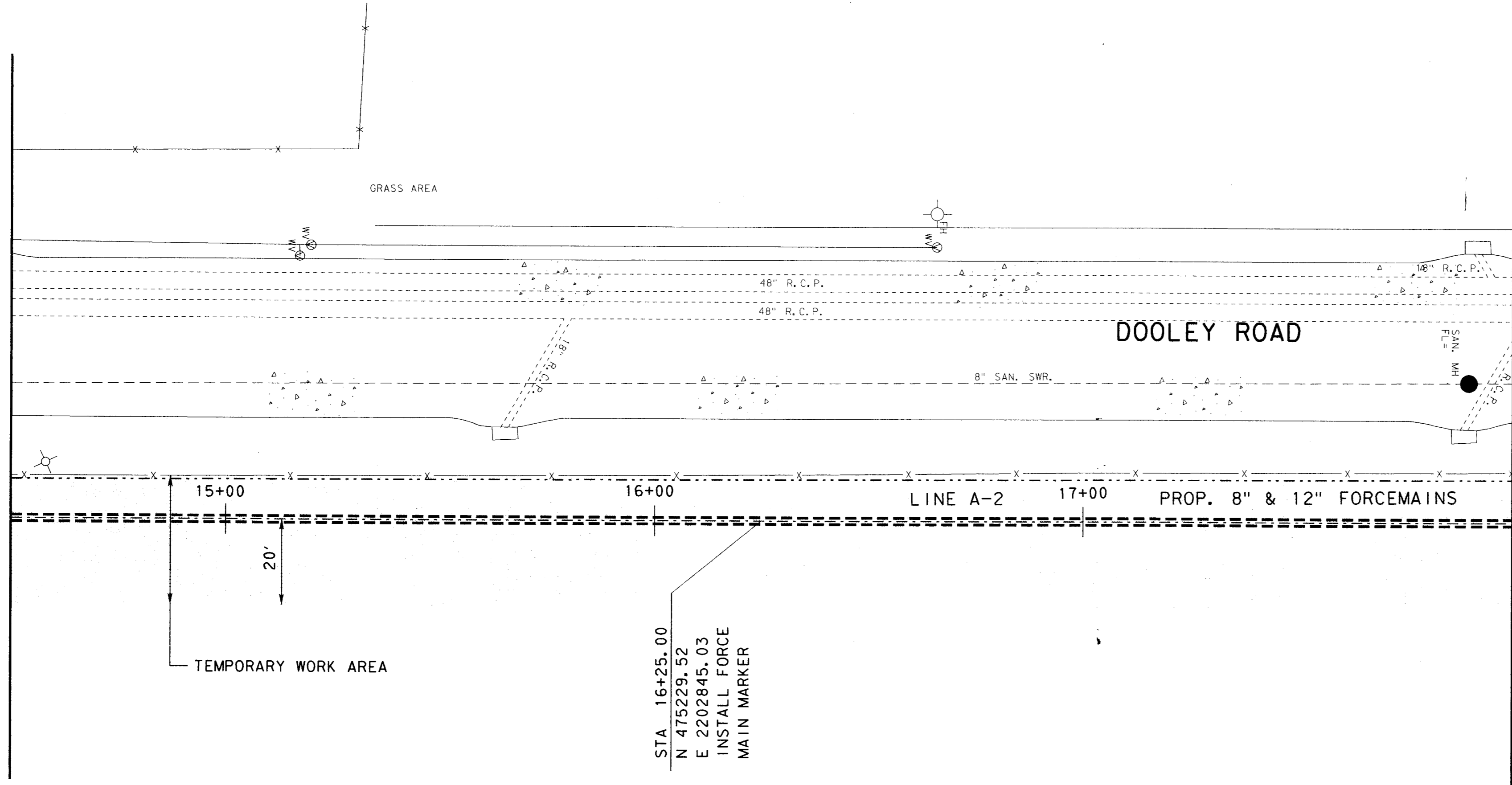


NO.	DATE	REVISION	APPROV.
1	5-4-98	AS BUILT DRAWING	J. H. L.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE A-2 FROM STATION 10+00 TO STATION 14+50			
Carter & Burgess <small>Consultants in Engineering, Architecture, Planning and the Environment</small> CARTER & BURGESS, INC. <small>7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit:	Scale:	Horiz. 1"=20' Vert. 1"=5'	Date: 04-05-96
Designed: J. Lindner	Checked: J. Lindner	Job No.: 93327601D	
Drawn: R. Howman	Approved: J. Lindner	Sheet: 27 of 63	

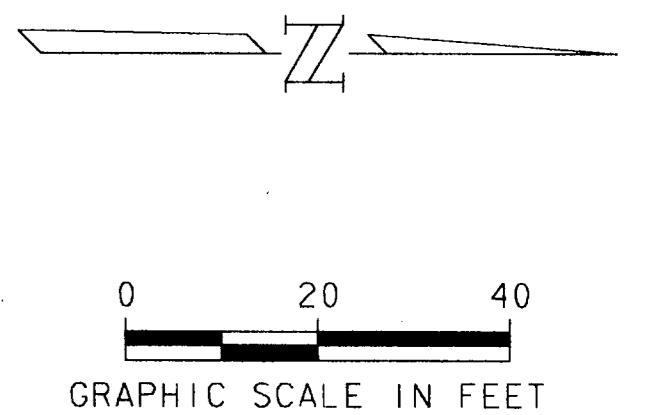


REVISIONS
 NO. DATE DESCRIPTION
 1 9-4-98 AS BUILT DRAWING J. H. L.
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MATCH LINE STA. 14+50



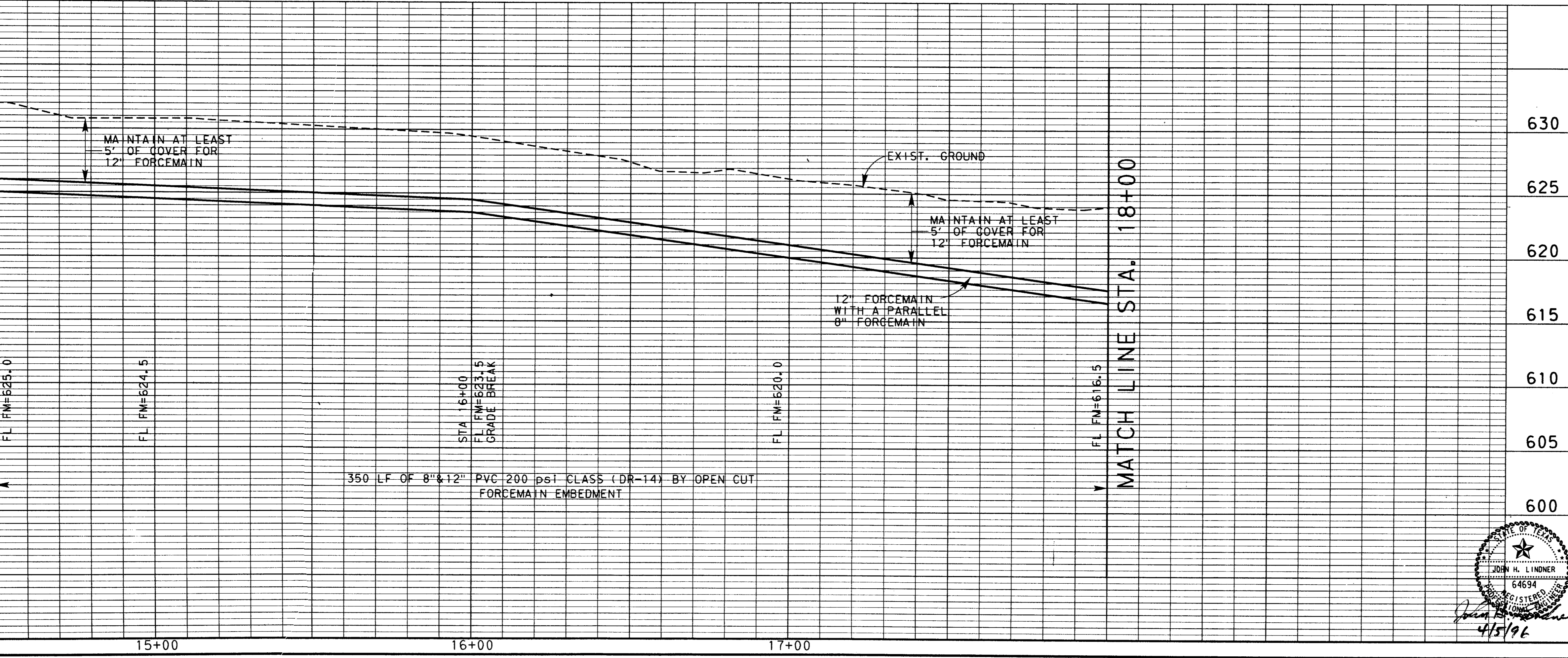
MATCH LINE STA. 18+00



ADDISON AIRPORT

STA 16+25.00
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 E 2202845.03
 INSTALL FORCE
 MAIN MARKER

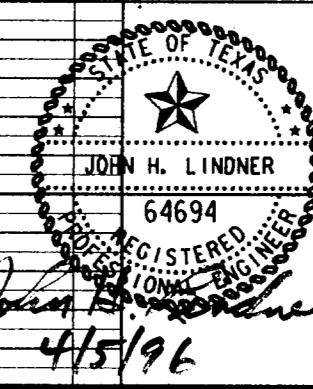
MATCH LINE STA. 14+50



MATCH LINE STA. 18+00

NO.	DATE	REVISION	APPROV.
1	9-4-98	AS BUILT DRAWING	J. H. L.
2			
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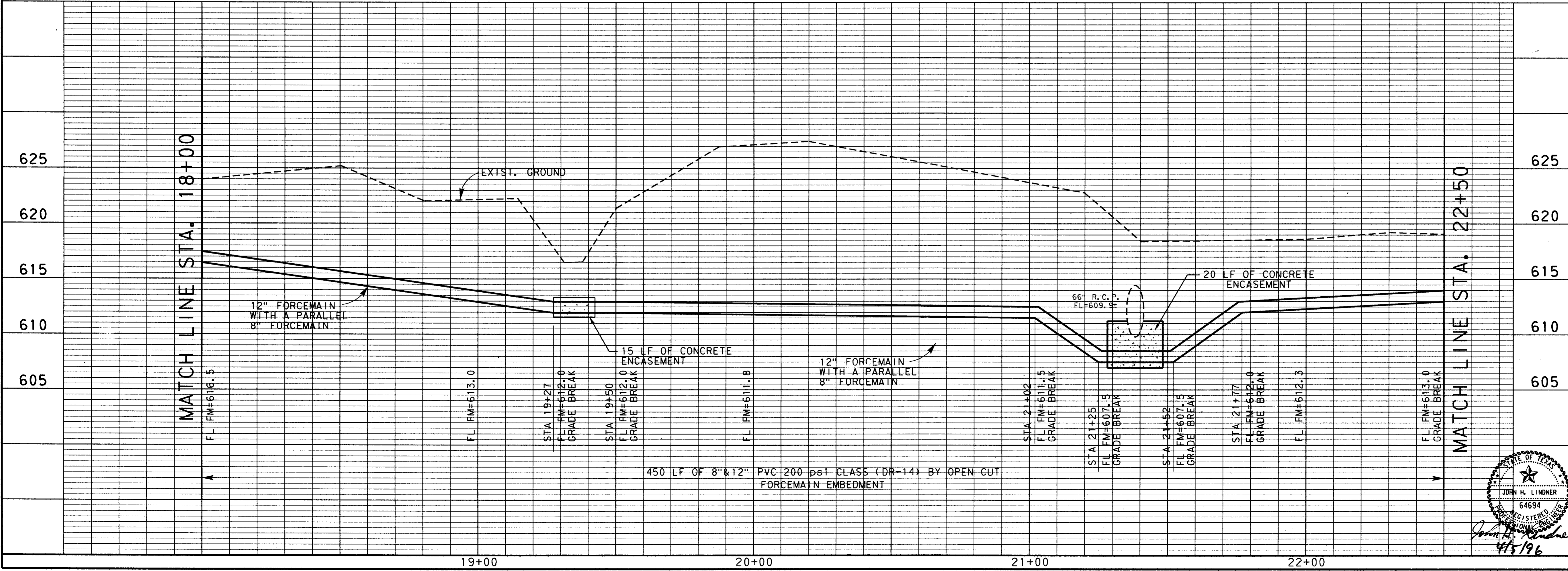
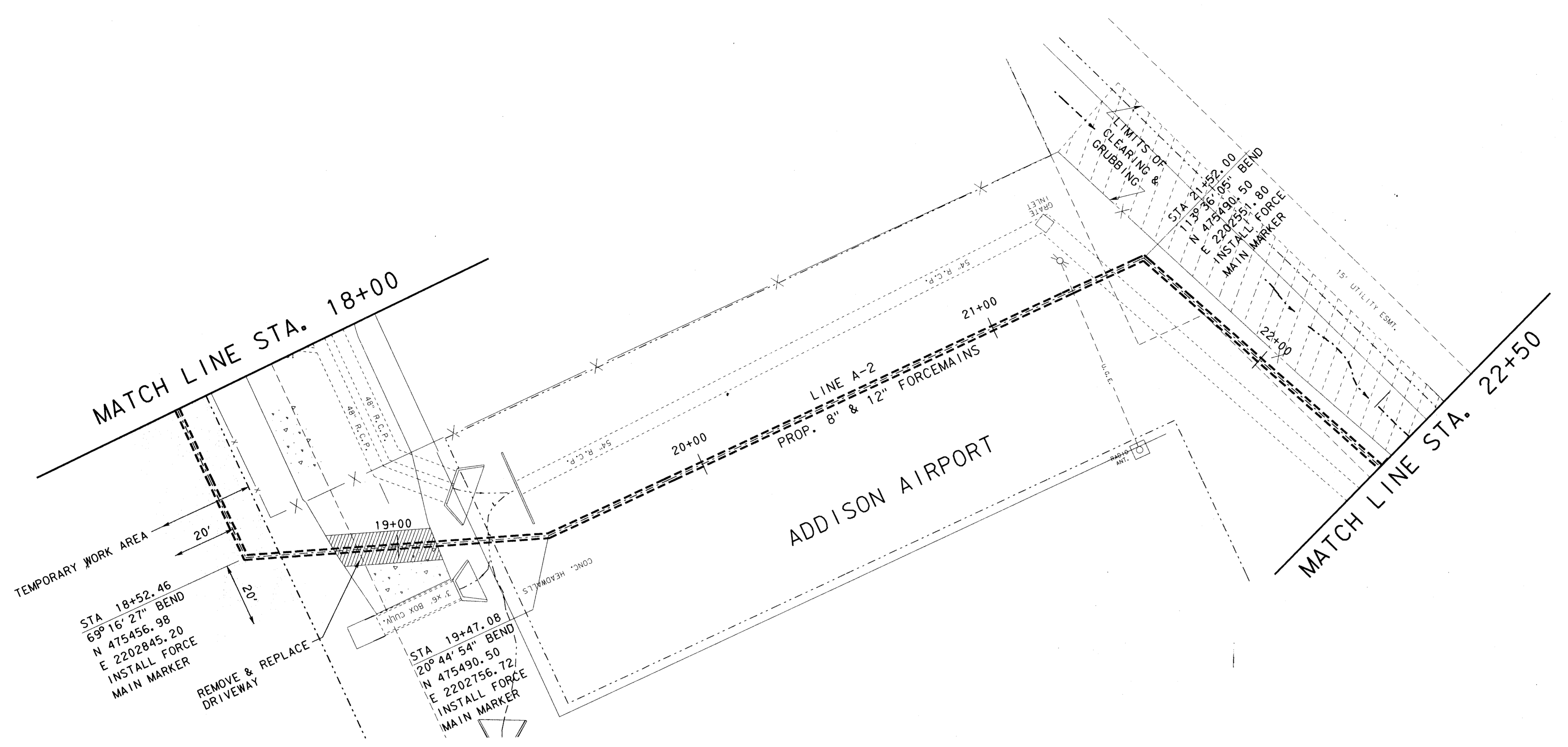
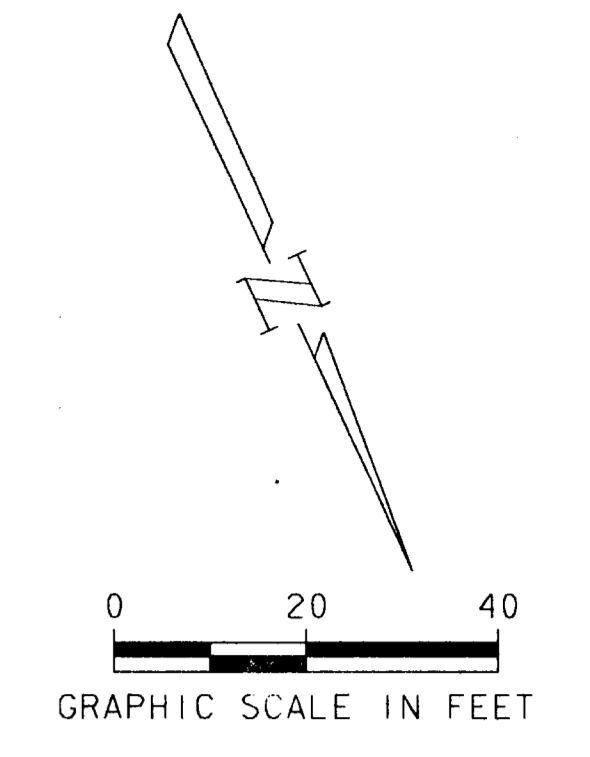
TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LINE A-2
 FROM STATION 14+50 TO STATION 18+00



Carter & Burgess

Consultants in Engineering, Architecture,
 Planning and the Environment
 CARTER & BURGESS, INC.
 7950 EMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961

Unit	Scale	Horiz. 1"=20'	Vert. 1"=5'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No.	933276010
Drawn	R. Howman	Approved	J. Lindner	Sheet	28 of 63



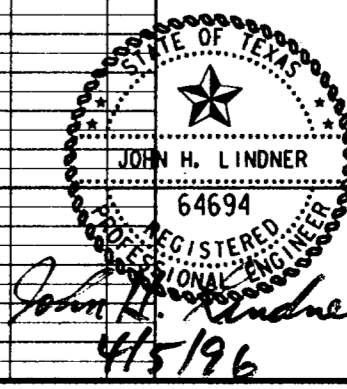
NO.	DATE	REVISION	APPROV.
4			
3			
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1			

TOWN OF ADDISON, TEXAS
MIDWAY/BELTLINE SANITARY SEWER
PHASE II

LINE A-2
FROM STATION 18+00 TO STATION 22+50

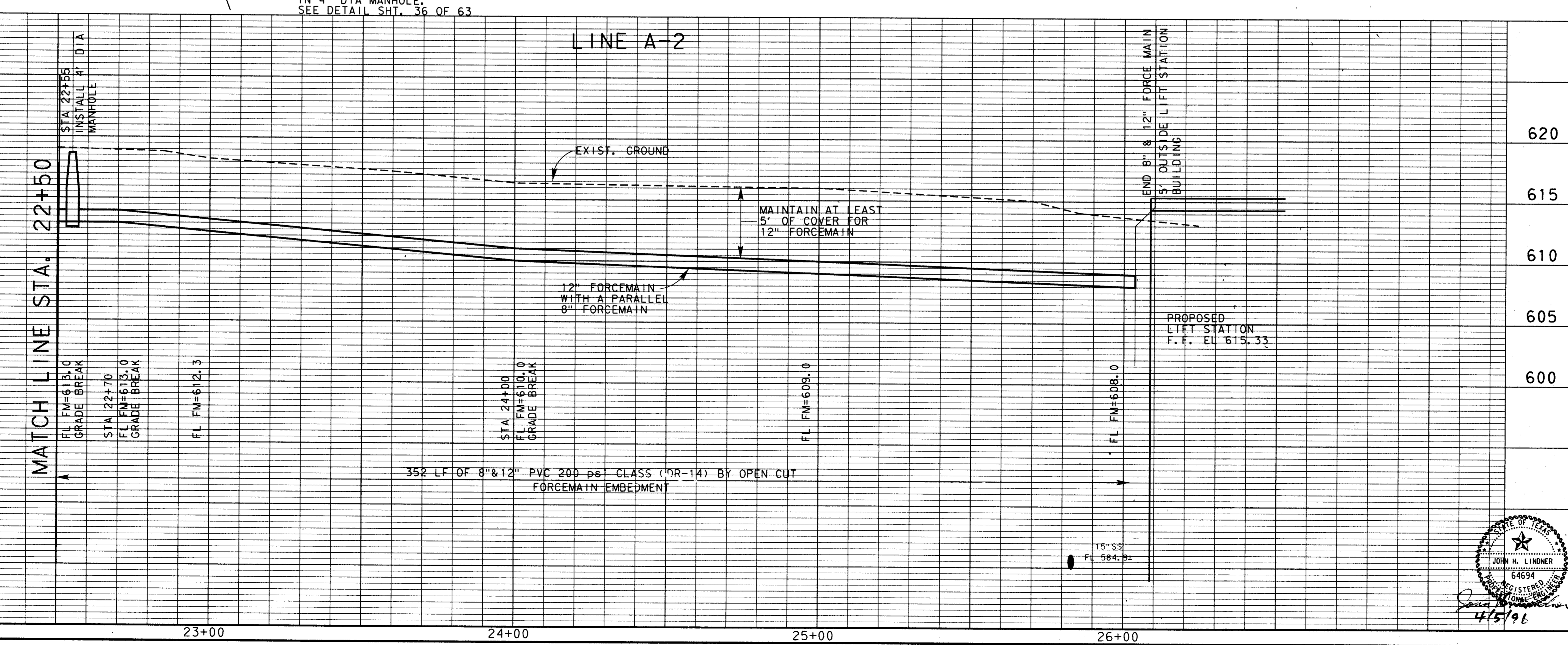
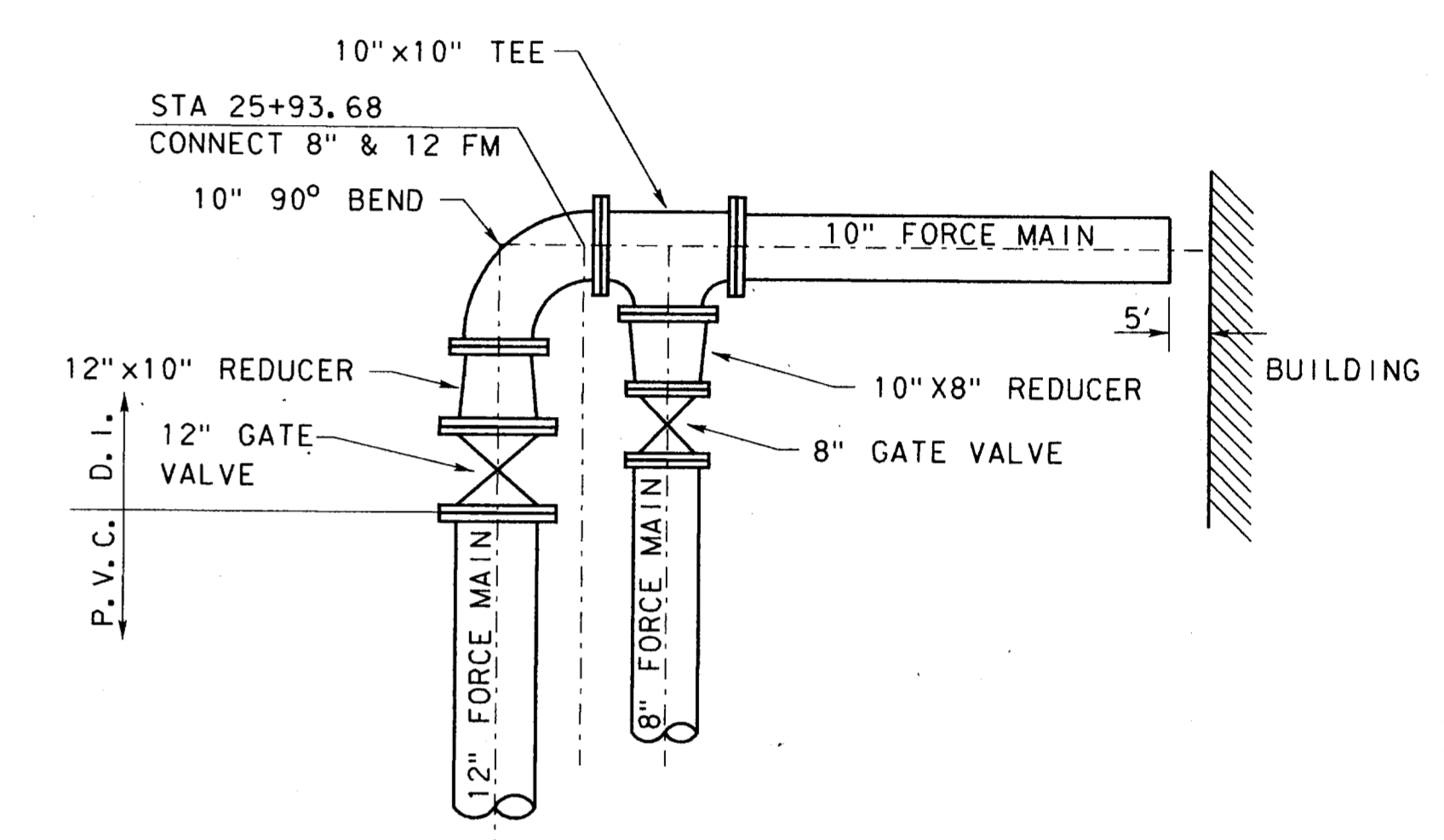
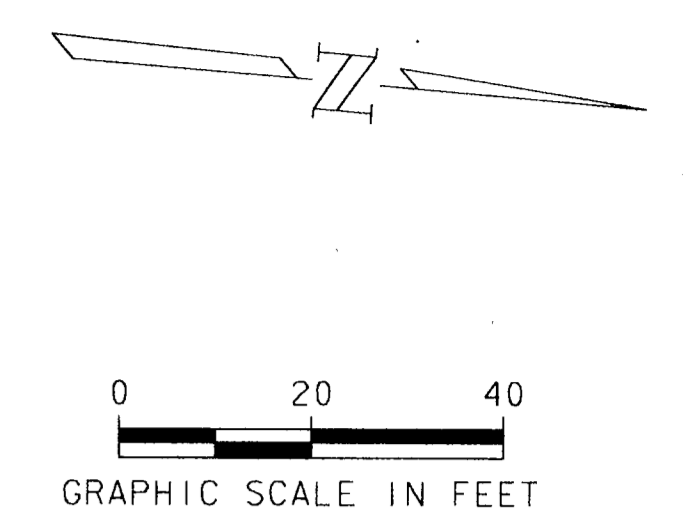
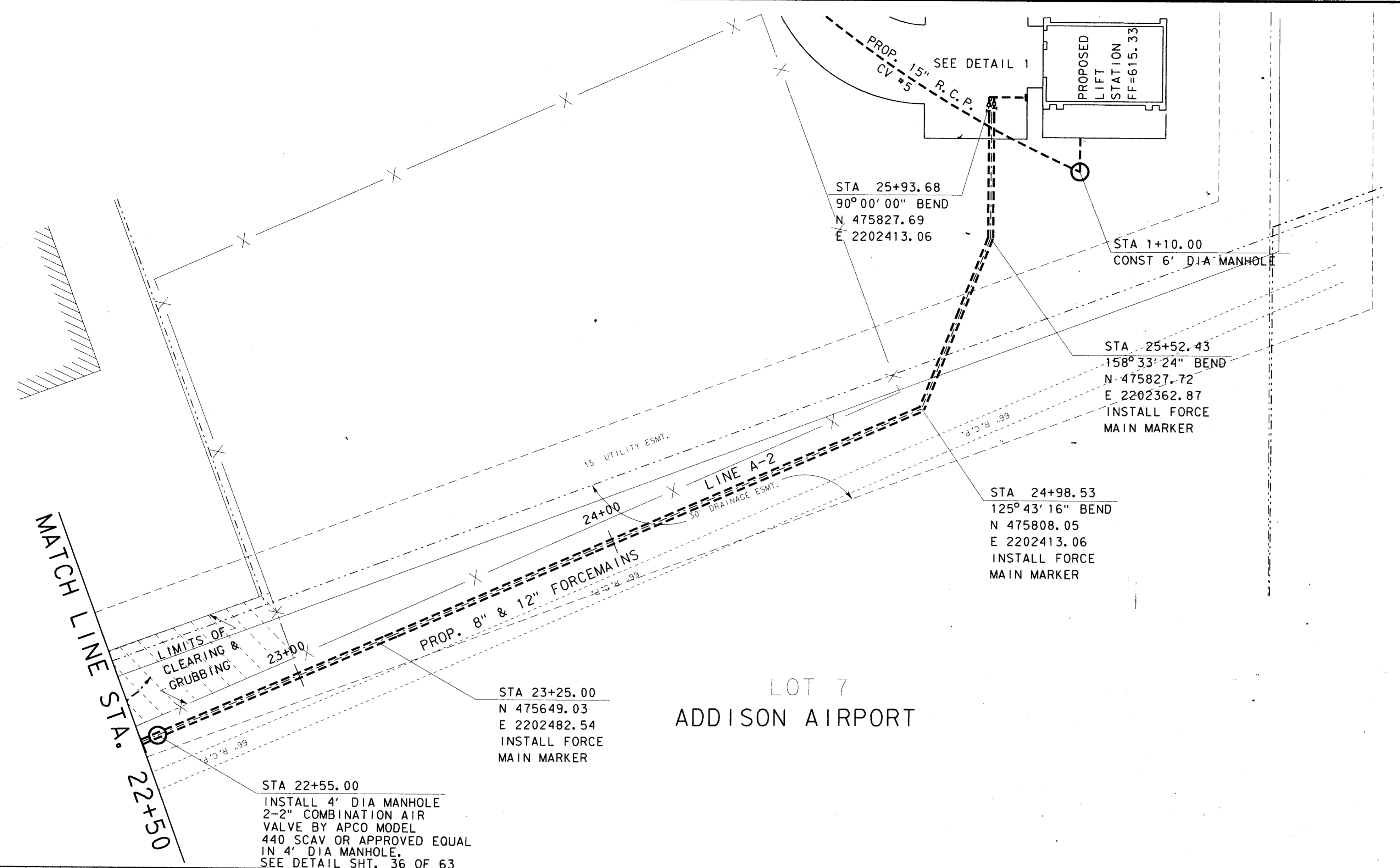
Carter Burgess

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Planning and the Environment
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DALLAS, TX 75247-4961



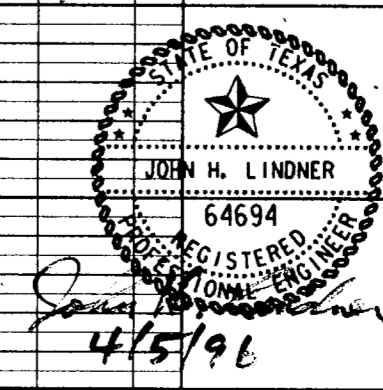
Unit	Scale	Horiz.	Vert.	Date
Unit	Scale	Horiz. 1"=20'	Vert. 1"=5'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No. 933276010
Drawn	R. Howman	Approved	J. Lindner	Sheet 29 of 63

SHEET NO. 30 OF 63
 PROJECT NO. 93327601D
 DATE 04-05-96
 DRAWN BY R. HOWMAN
 CHECKED BY J. LINDNER
 APPROVED BY J. LINDNER
 DATE 04-05-96

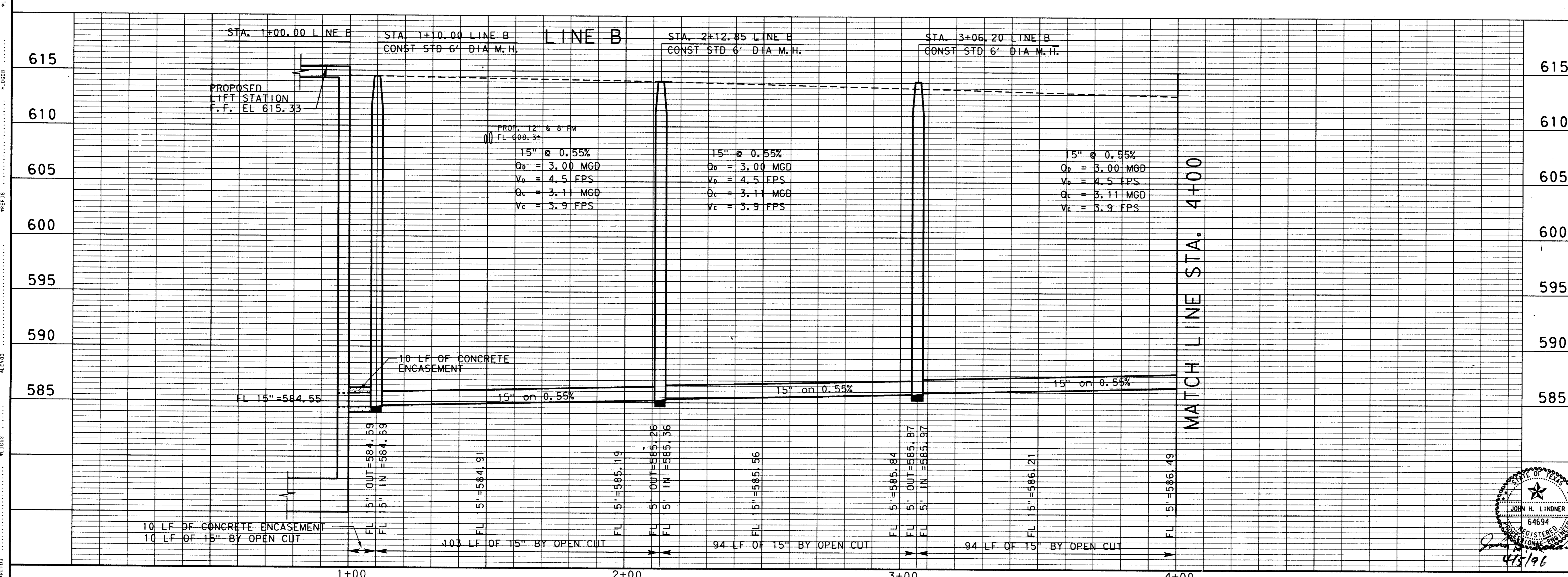
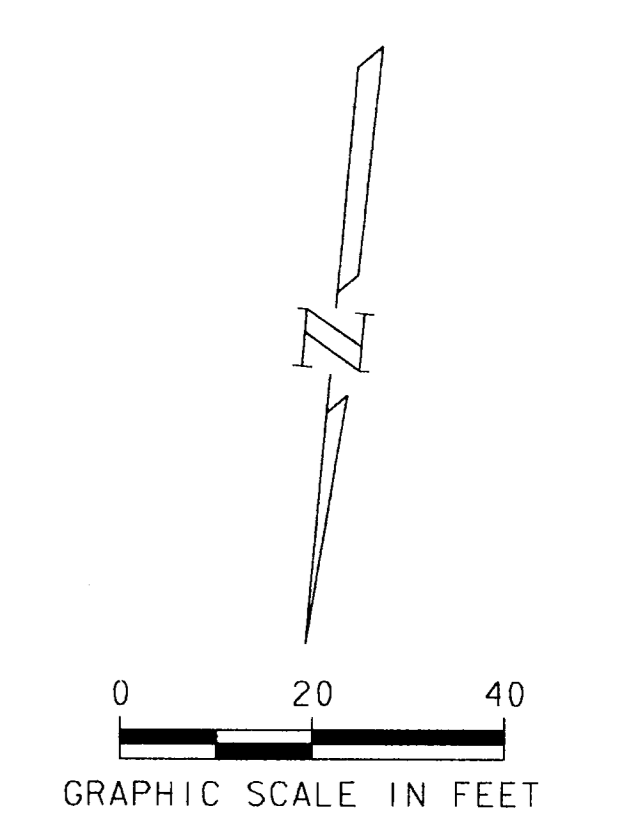
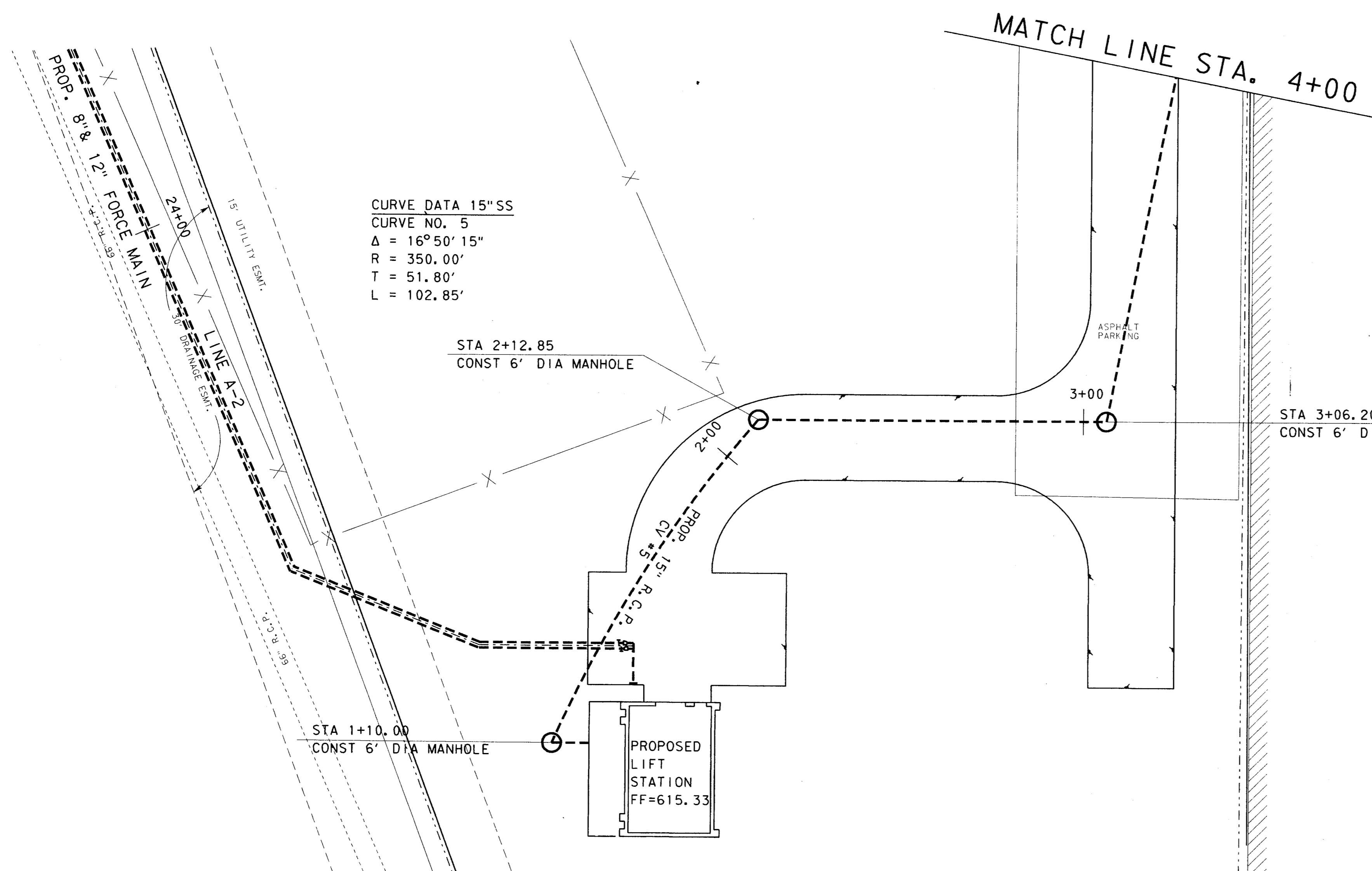


NO.	DATE	REVISION	APPROV.
4			
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TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LINE A-2
 FROM STATION TO STATION
Carter-Burgess
 Consultants in Engineering, Architecture,
 Planning and the Environment
 CARTER & BURGESS, INC.
 7950 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961
 Unit: Scale: Hor 1/2" = 20' Ver 1" = 5' Date: 04-05-96
 Designed: J. Lindner Checked: J. Lindner Job No.: 93327601D
 Drawn: R. Howman Approved: J. Lindner Sheet: 30 of 63



ENGINEER: J. LINDNER
 SURVEYOR: J. LINDNER
 DESIGNER: J. LINDNER
 CHECKED: J. LINDNER
 DRAWN: R. HOWMAN
 DATE: 04-05-96

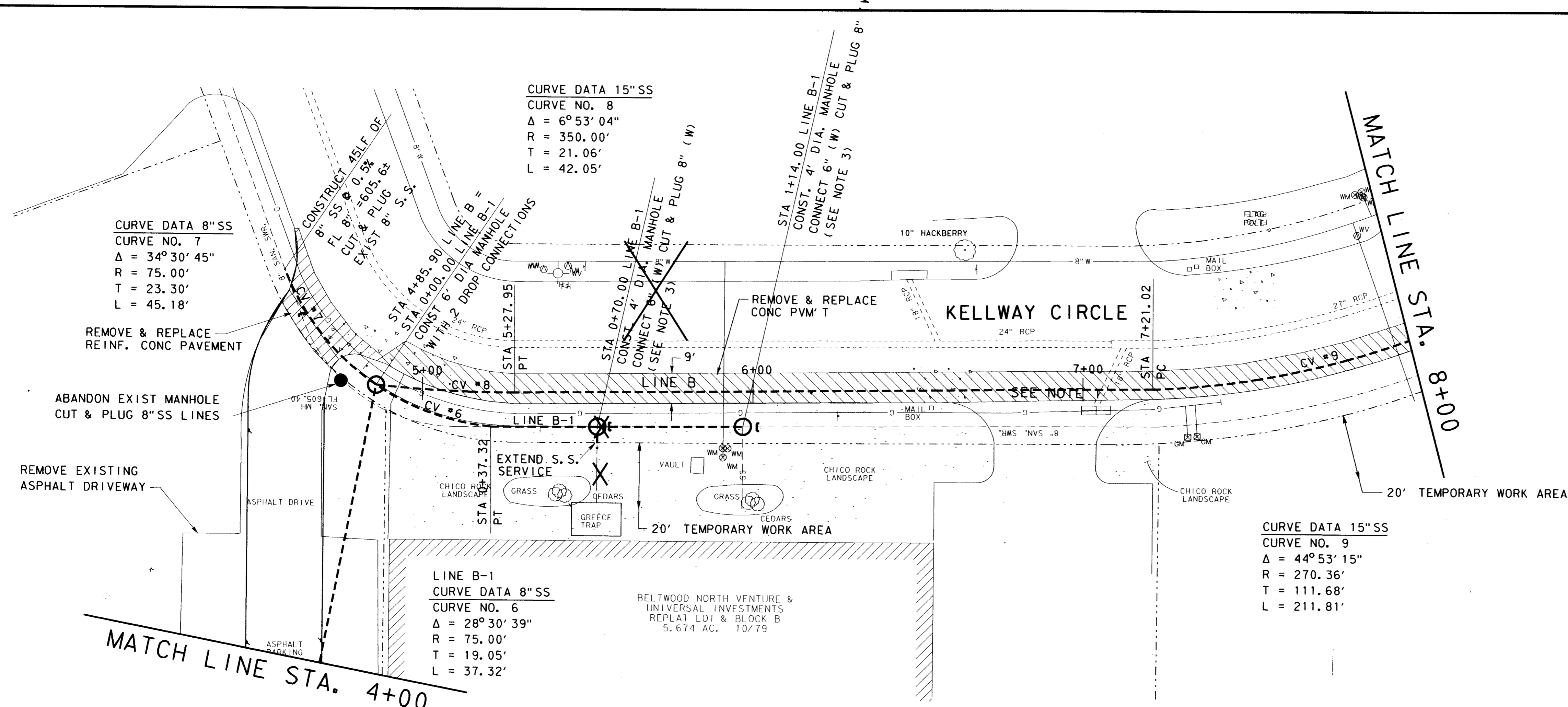
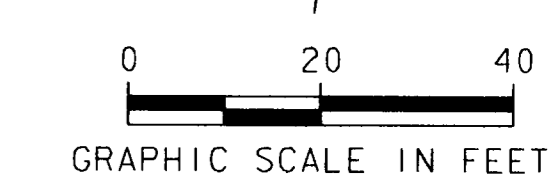
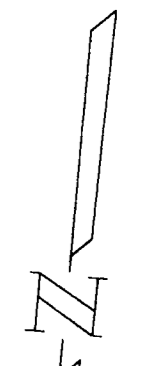


NO.	DATE	REVISION	APPROV.
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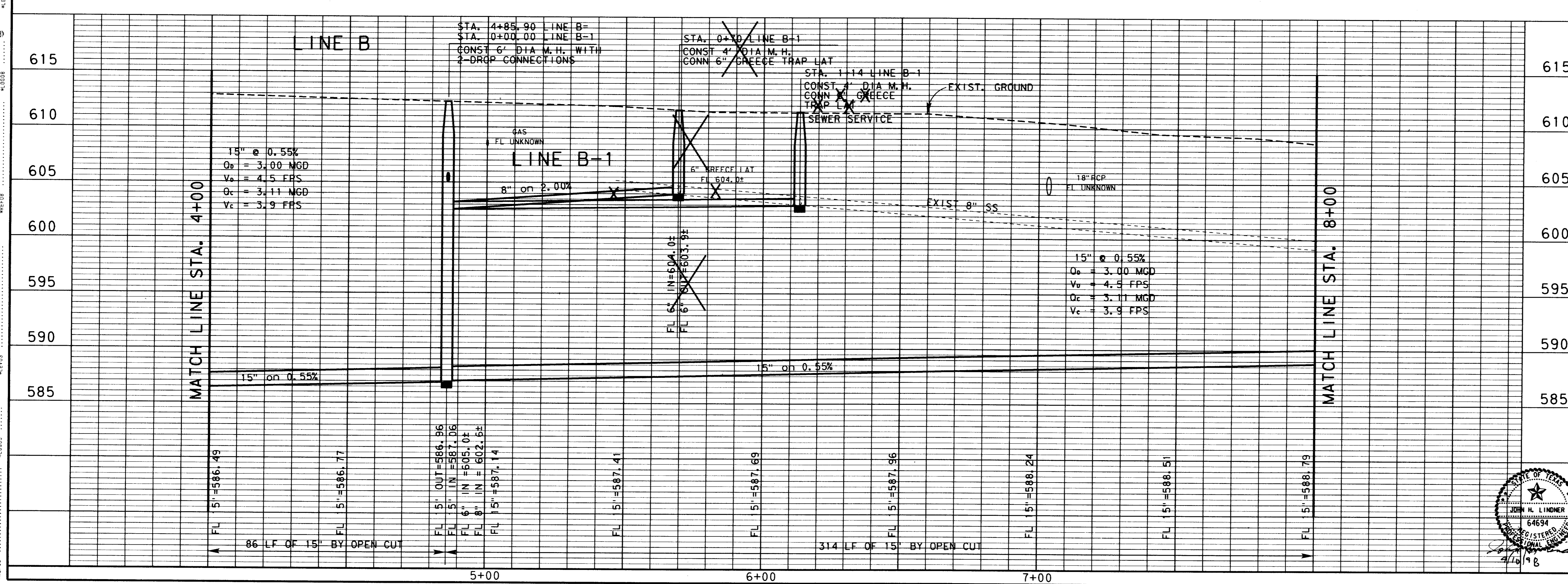
TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LINE B
 FROM STATION 1+10 TO STATION 4+00

Carter Burgess
 Consultants in Engineering, Architecture,
 Planning and the Environment
 CARTER & BURGESS, INC.
 7550 EMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961

Unit: Scale: Hor 1/2" = 20' Vert 1" = 5' Date: 04-05-96
 Designed: J. Lindner Checked: J. Lindner Job No.: 93327601D
 Drawn: R. Howman Approved: J. Lindner Sheet: 31 of 63

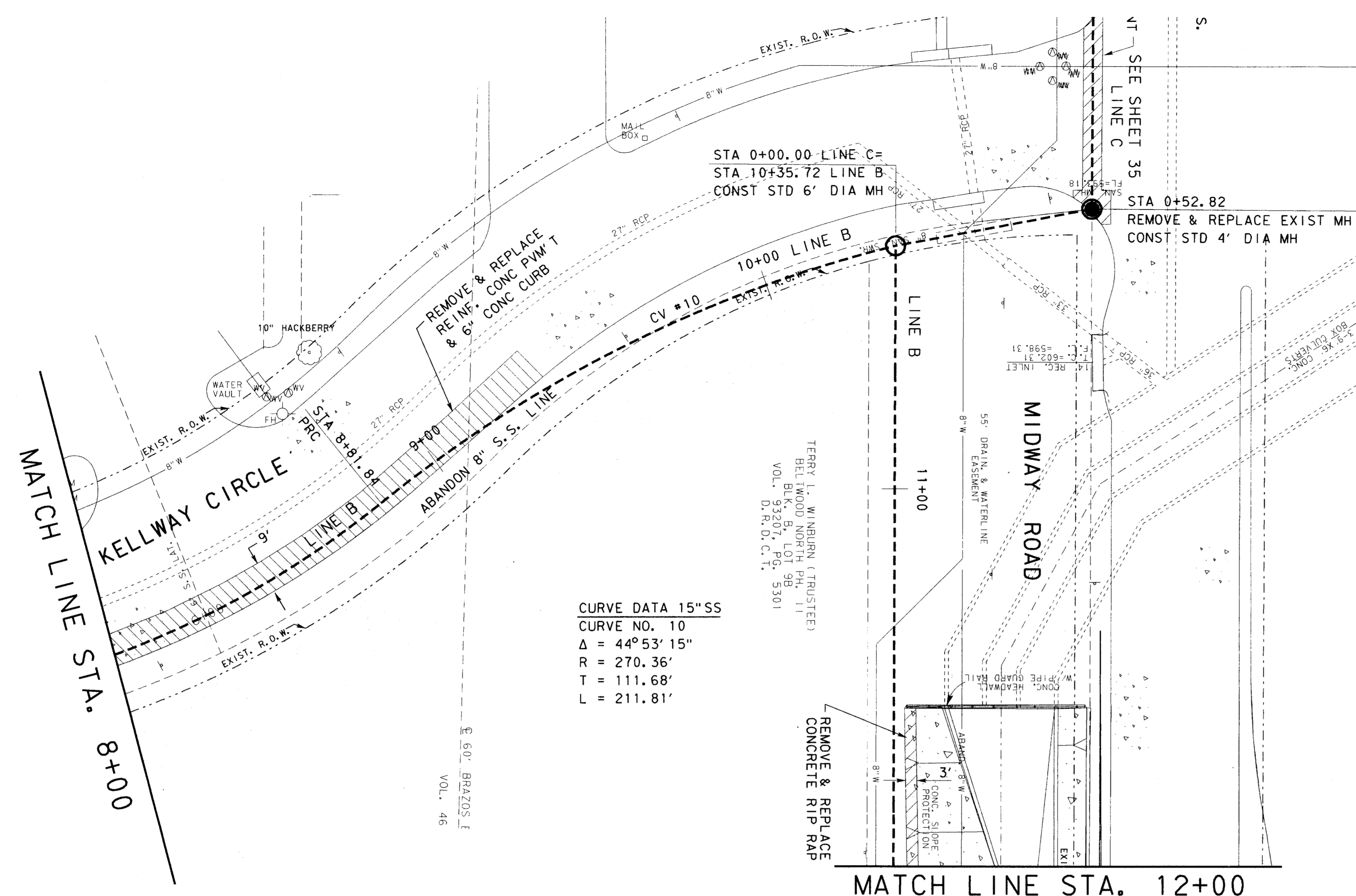


- NOTE:
1. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING 8" SS. NOT A SEPERATE PAY ITEM.
 2. CONTRACTOR TO MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.
 3. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING S.S. SERVICE PRIOR TO CONSTRUCTION.



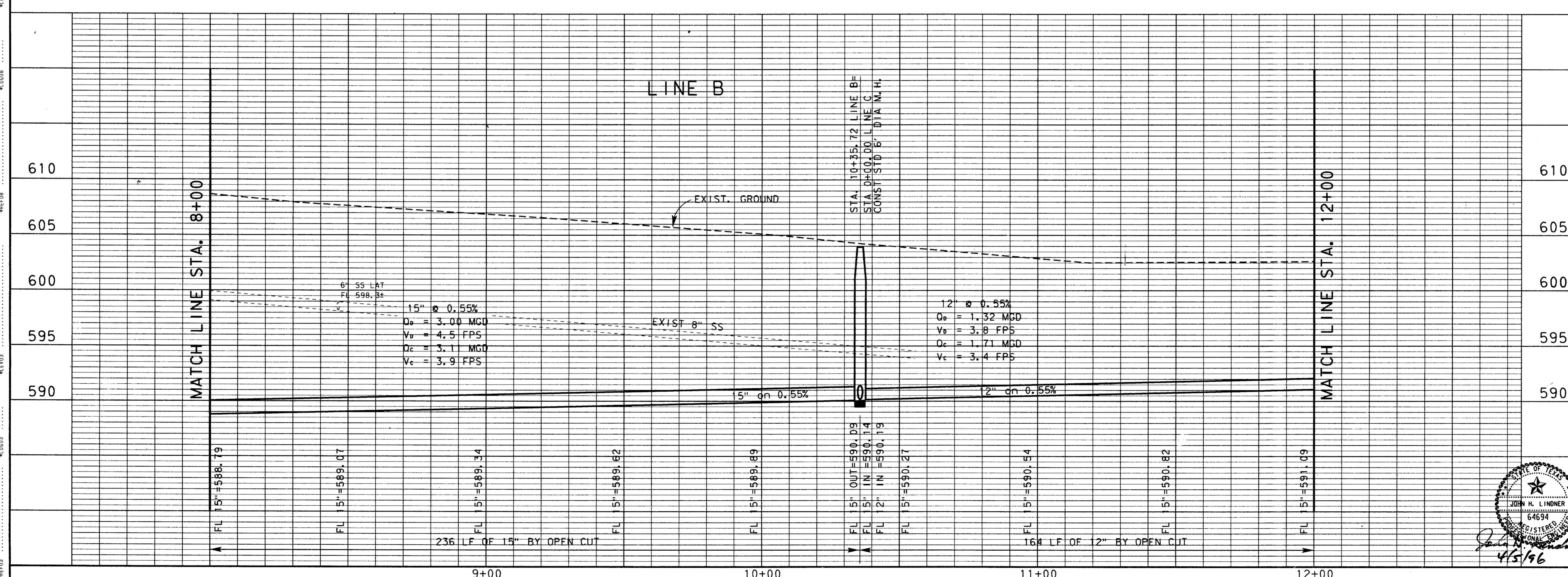
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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LINE B			
FROM STATION 4+00 TO STATION 8+00			
Carter Burgess			
Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7350 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961			
Unit	Scale	Hor 1/2, 1"=20'	Date
		Vert. 1"=5'	04-05-98
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D	Sheet	32 of 63
Sheet	32 of 63		

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CURVE DATA 15" SS
 CURVE NO. 10
 $\Delta = 44^{\circ}53'15''$
 $R = 270.36'$
 $T = 111.68'$
 $L = 211.81'$

NOTE:
 CONTRACTOR SHALL REMOVE & DISPOSE OF TREES
 AND DEBRIS LOCATED IN CREEK FROM STATION
 9+40 TO STATION 12+60 AND GRADE.



NO.	DATE	REVISION	APPROV.
1	9-4-98	AS BUILT DRAWING	J. H. L.

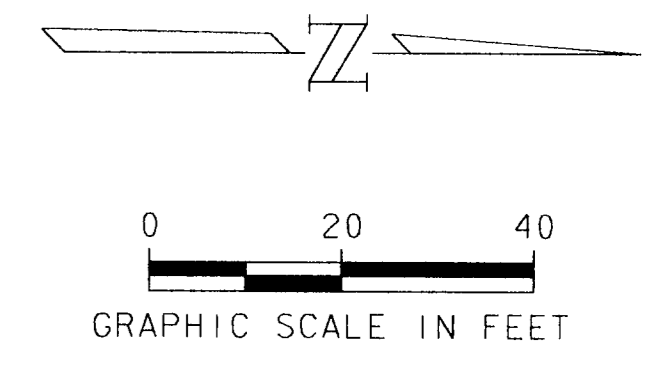
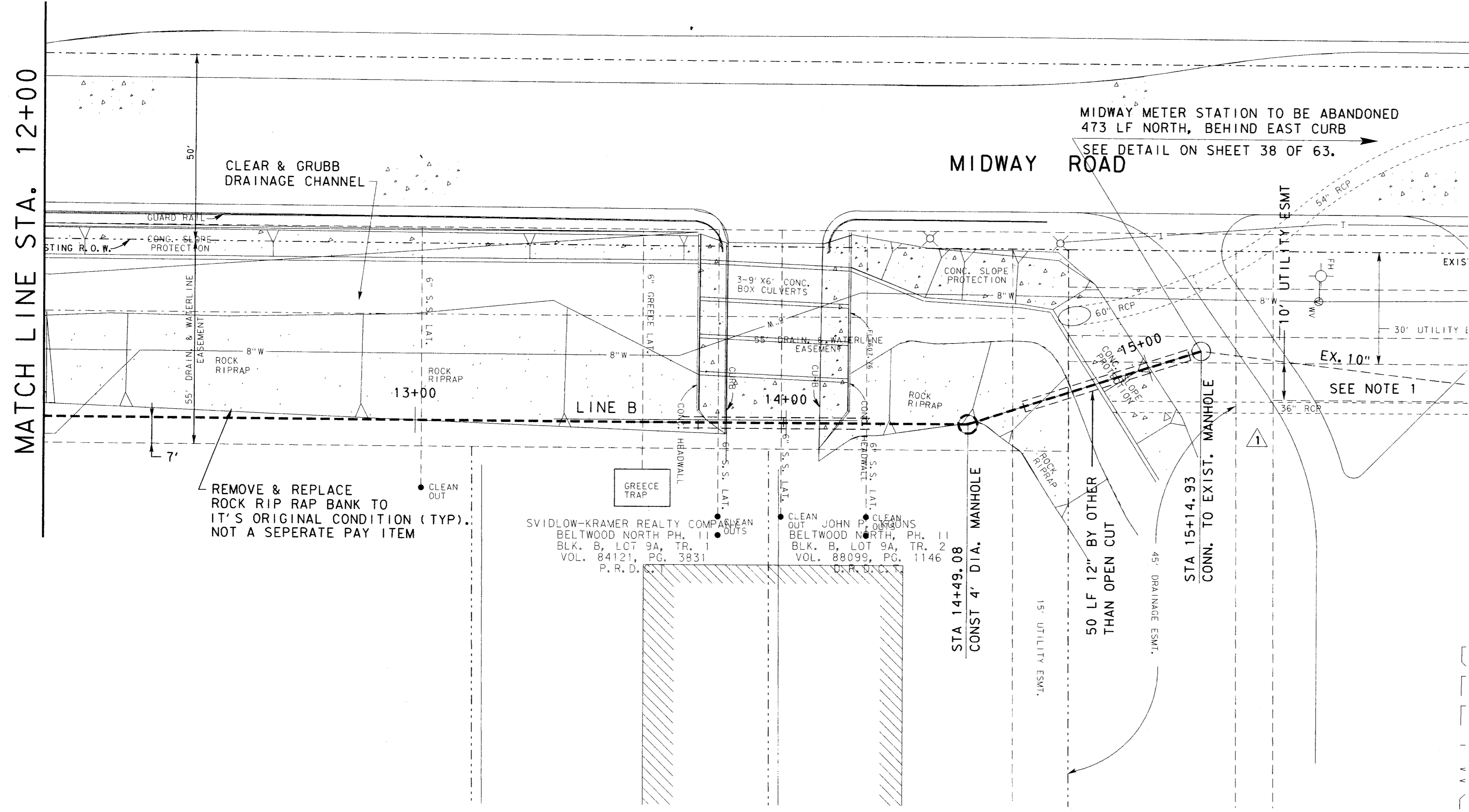
TOWN OF ADDISON, TEXAS
MIDWAY/BELTLINE SANITARY SEWER PHASE II
LINE B
 FROM STATION 8+00 TO STATION 12+00

Carter Burgess
 Consultants in Engineering, Architecture,
 Planning and the Environment
 JOHN H. LINDNER
 7950 EMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961

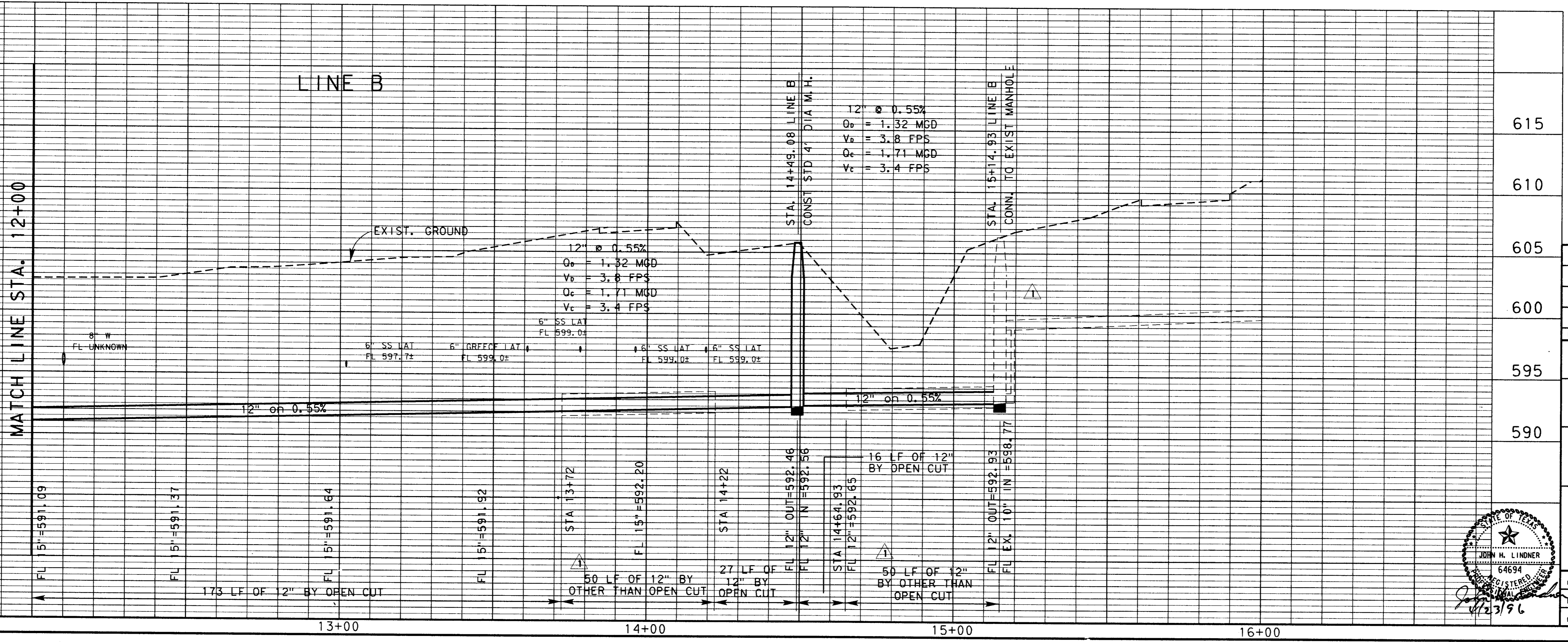
Unit	Scale	HORIZ. 1"=20'	VERT. 1"=5'	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner	Job No.	93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet	33 of 63

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REVISIONS
 NO. DATE BY
 1 4-23-96 J.H.L.
 2 5-4-98 J.H.L.
 3
 4



- NOTE:
- CONTRACTOR SHALL VERIFY FL OF EXISTING 10" SS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCY TO ENGINEER.
 - CONNECT ALL EXISTING SEWER SERVICES TO NEW MAIN. NOT A SEPARATE PAY ITEM.

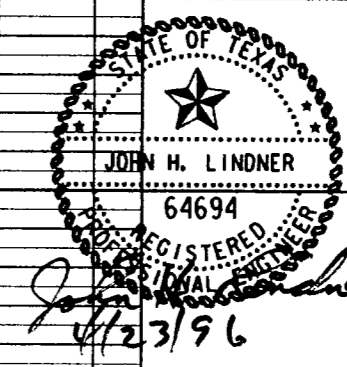


NO.	DATE	REVISION	APPROV.
1	4-23-96	ADDENDUM NO. 1	J. H. L.
2	5-4-98	AS BUILT DRAWING	J. H. L.
3			
4			

TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LINE B
 FROM STATION 12+00 TO STATION 15+44.93

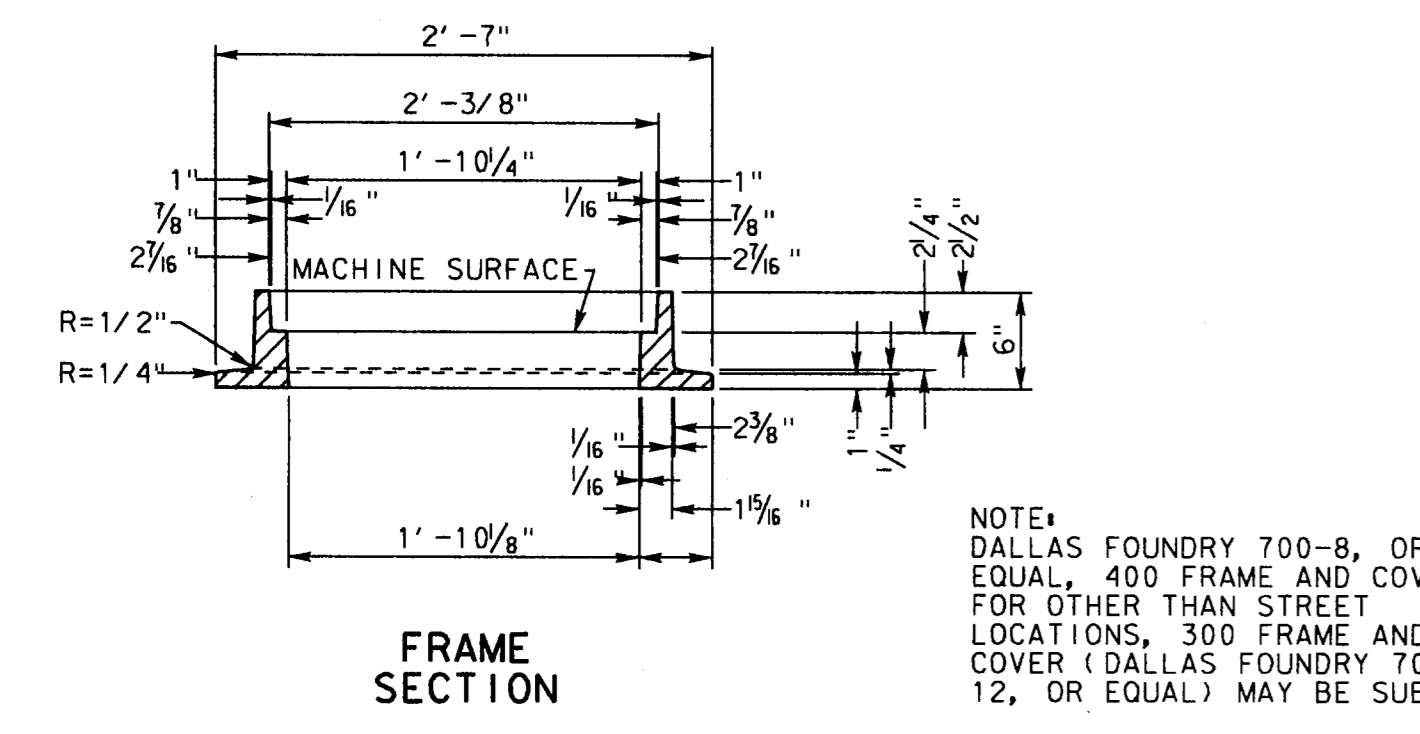
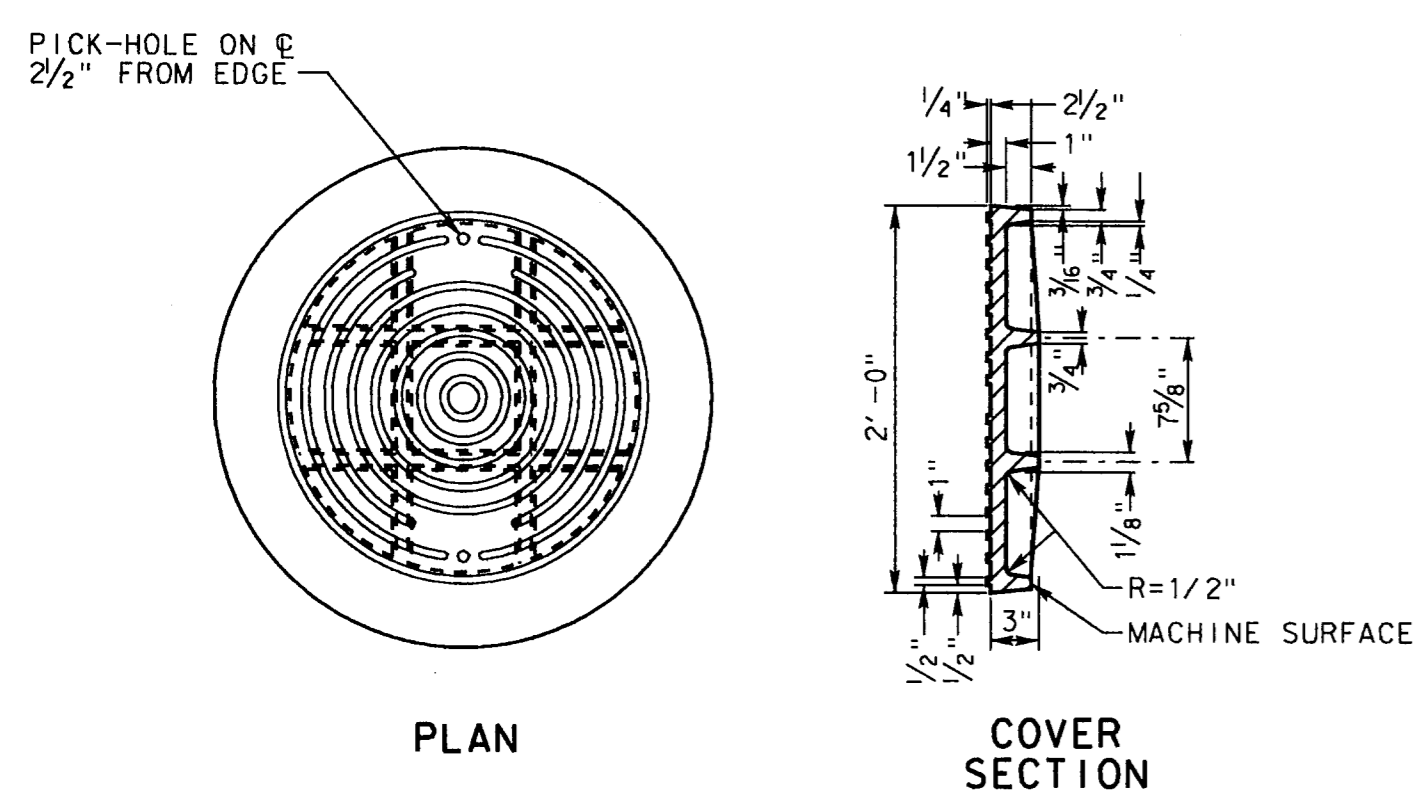


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 DALLAS, TX 75247-4963



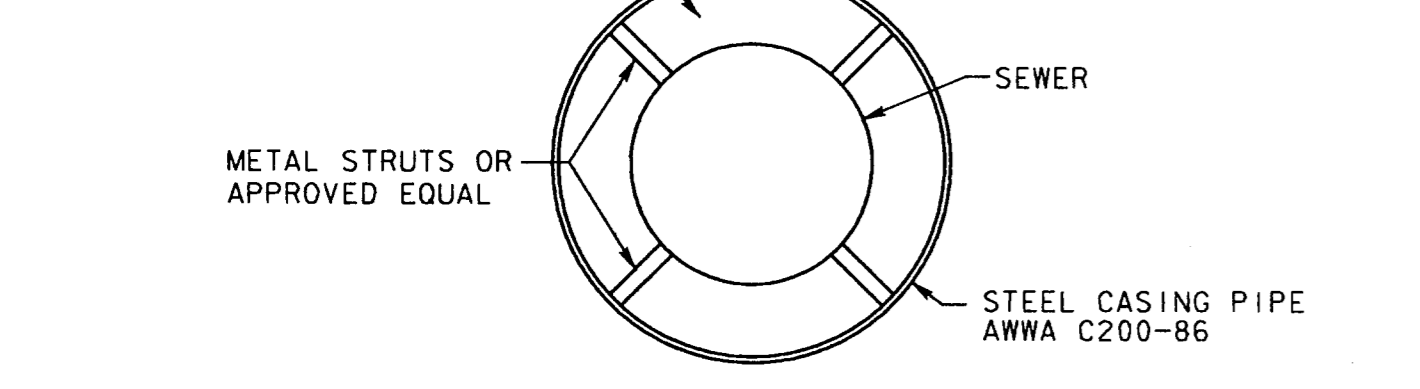
Unit	Scale	Horiz.	Vert.	Date
1	J. Lindner	1"=20'	1"=5'	04-05-96
2	R. Howmon	J. Lindner	J. Lindner	93327601D
3		J. Lindner		34 of 63

101-10201
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MANHOLE COVER AND FRAME STANDARD

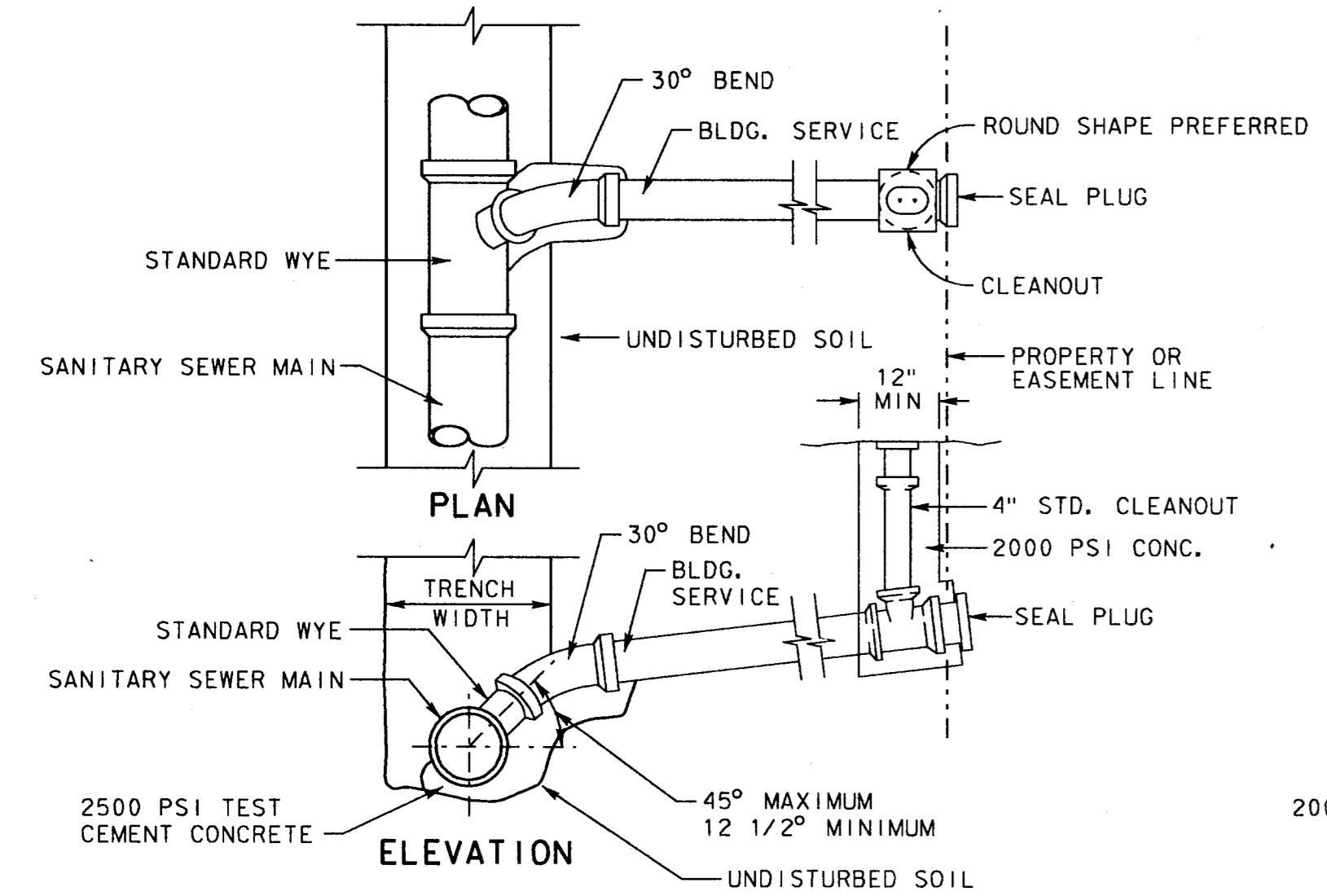
FILL ALL VOID WITH BLOWN P.E.A. GRAVEL FILL OR PRESSURE GROUT WITH AT LEAST 200 PSI AT 28 DAYS



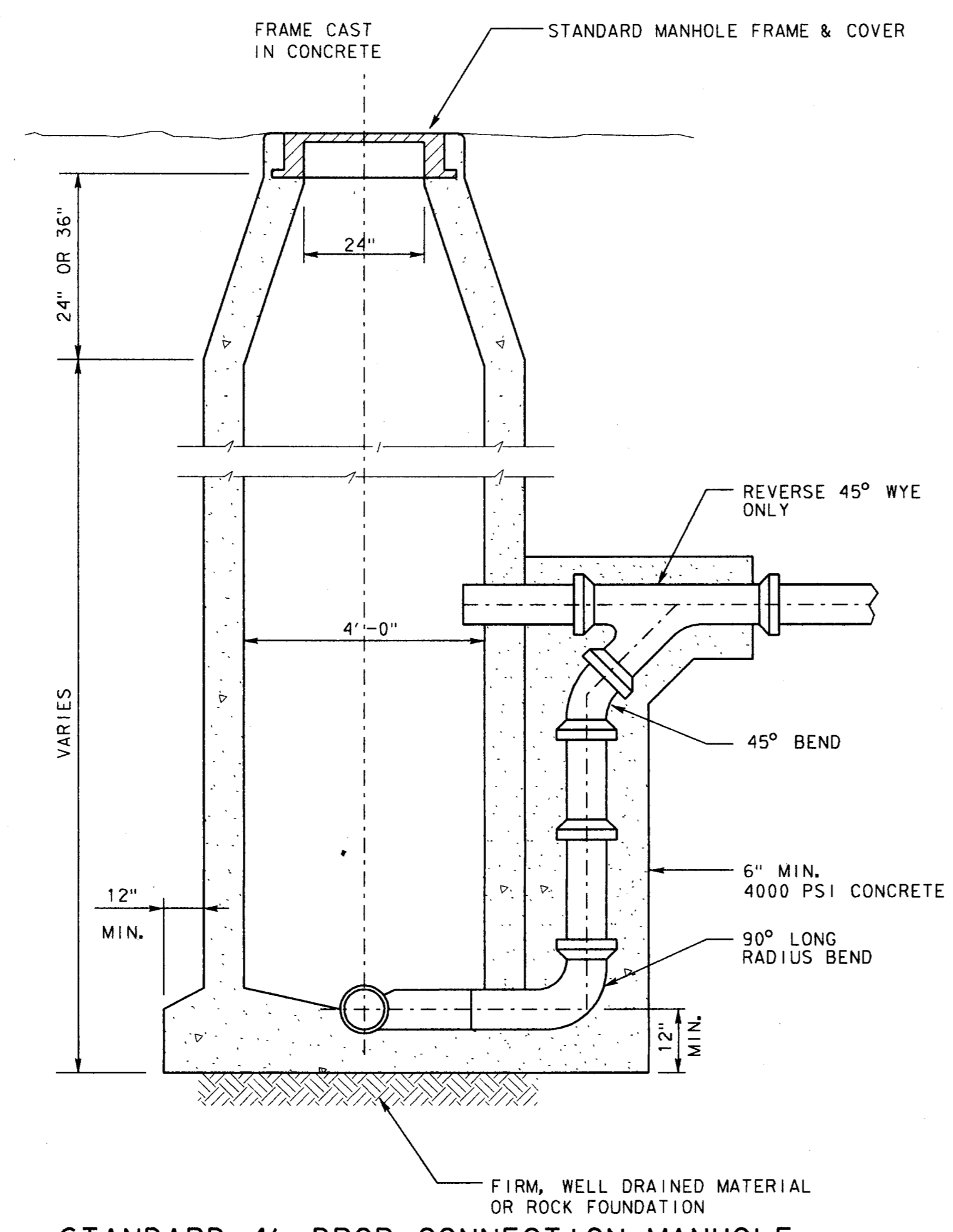
CARRIER PIPE (DIA.)	CASING PIPE (DIA.)	MIN. STEEL PIPE WALL THICKNESS
8"	16"	1/4"
12"	18"	1/4"
15"	24"	5/16"
18"	28"	5/16"
21"	30"	5/16"
24"	34"	3/8"
21"	36"	5/8"

* UNDER RAILROAD

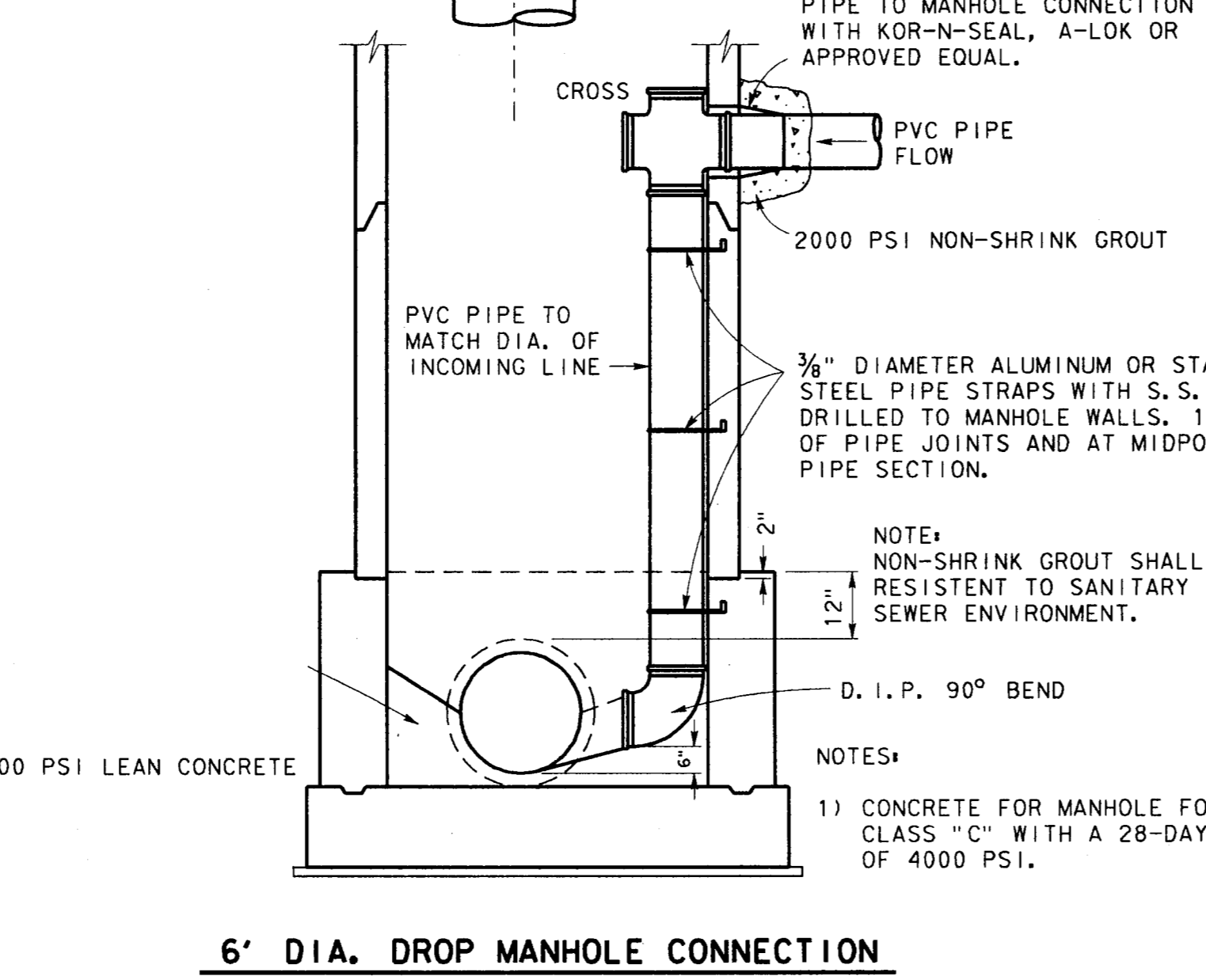
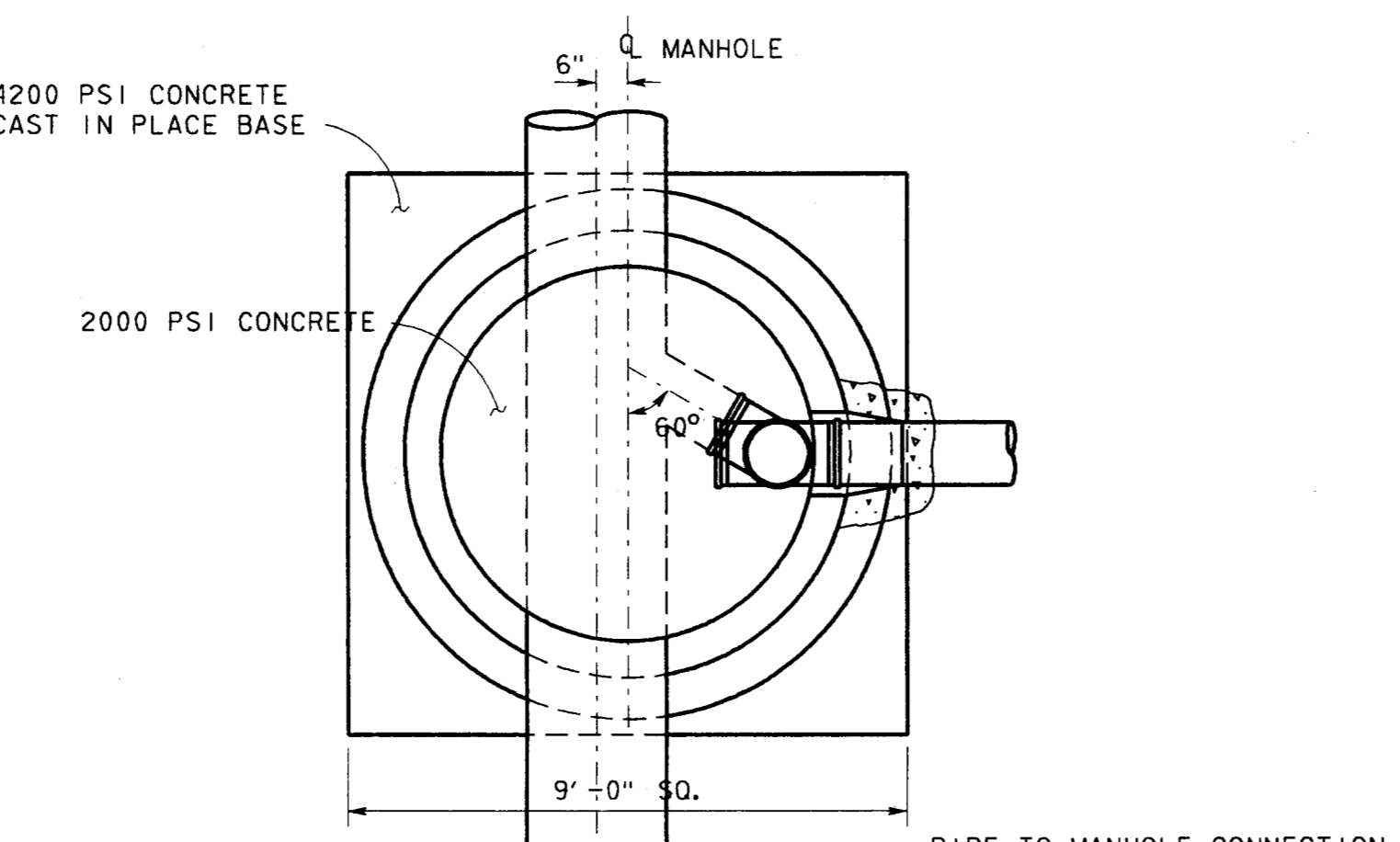
CASING DETAIL FOR BORING



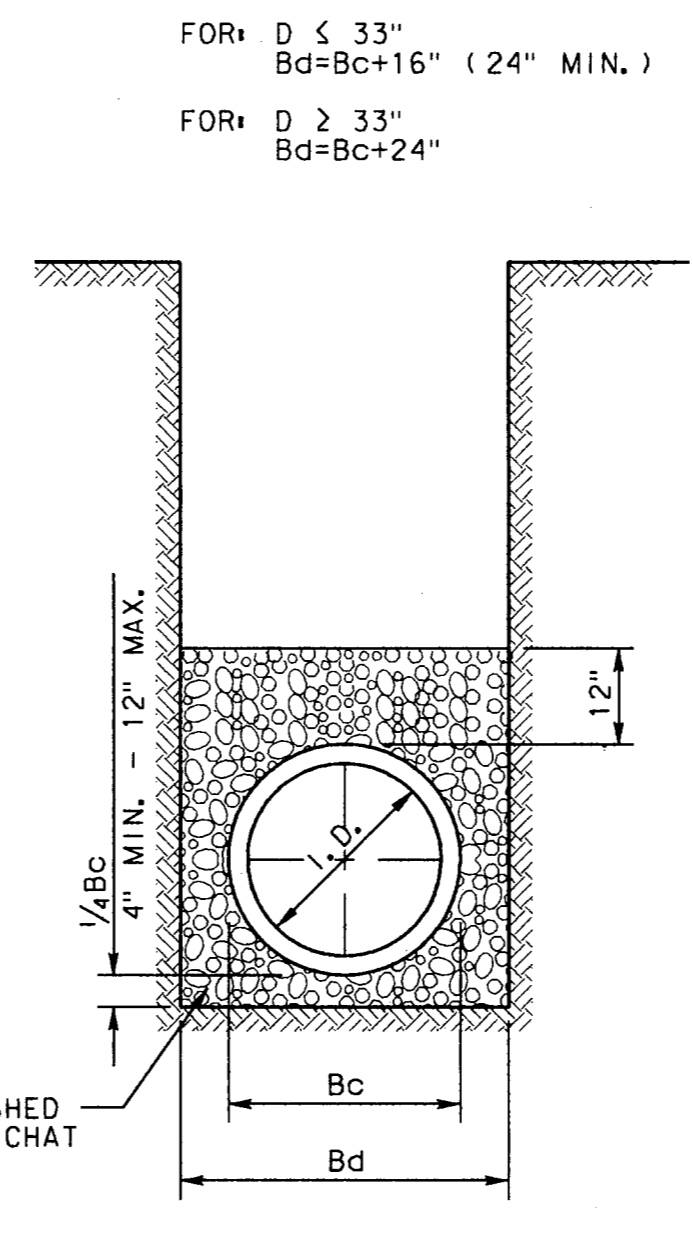
SERVICE CONNECTION STANDARD



STANDARD 4' DROP CONNECTION MANHOLE

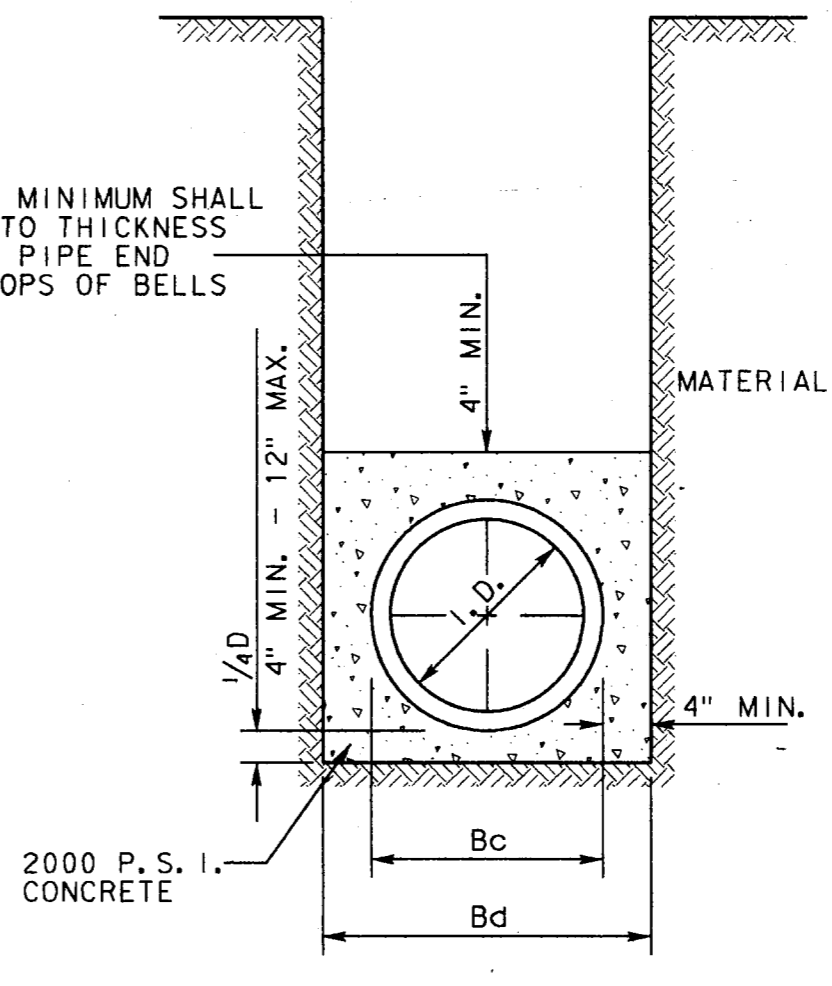


6' DIA. DROP MANHOLE CONNECTION

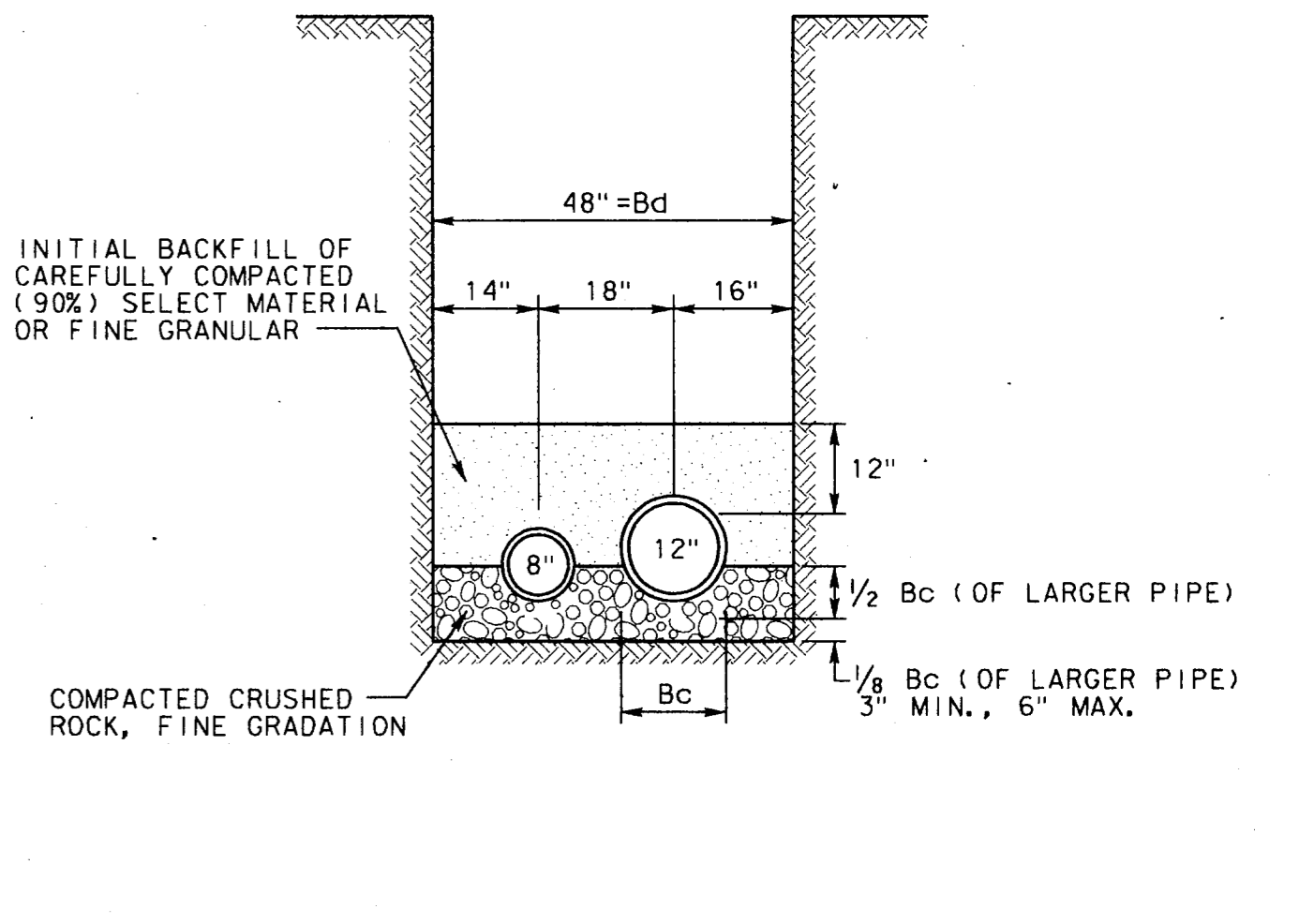


BEDDING DETAIL CLASS "B"

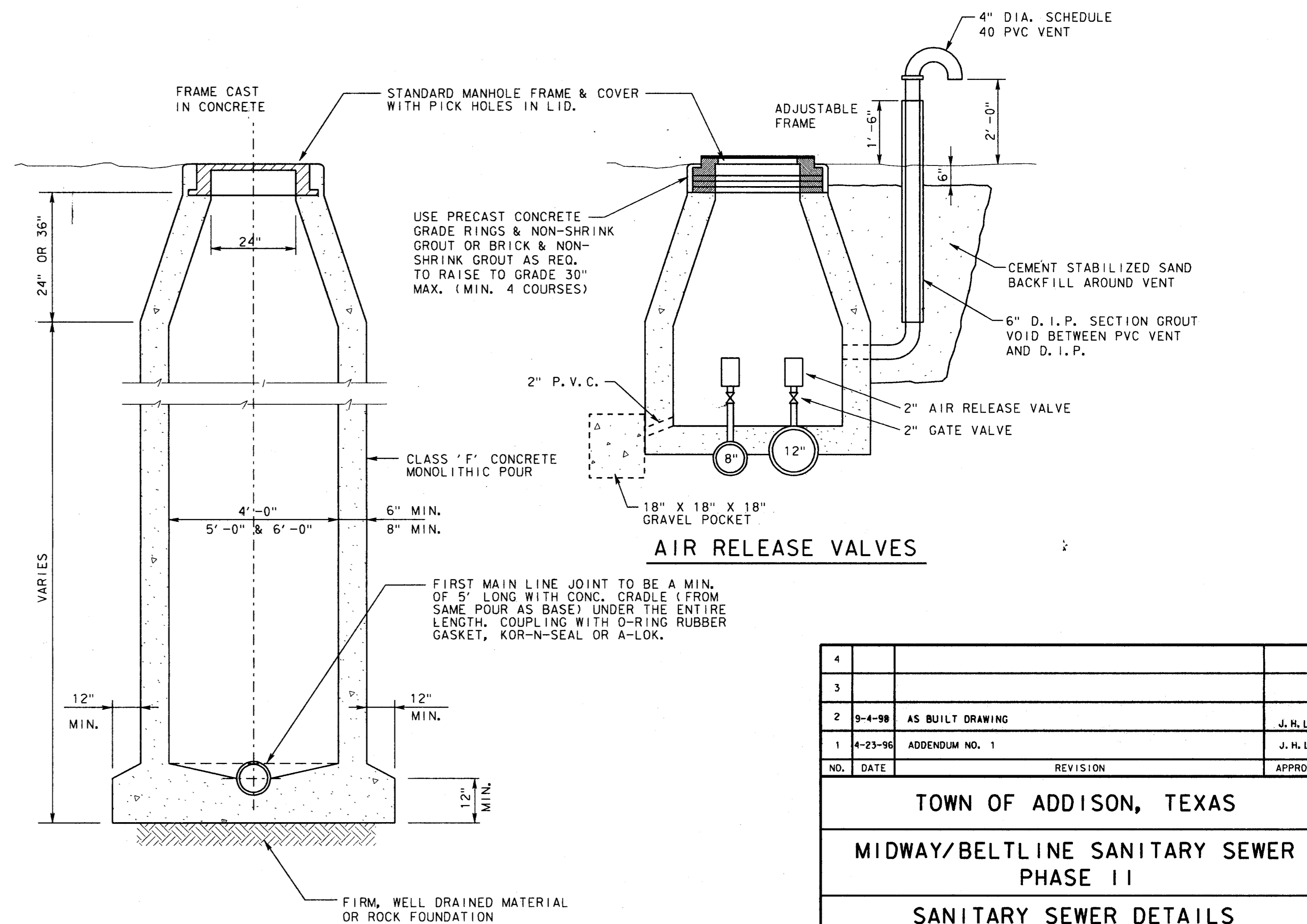
* ALL SANITARY SEWER EMBEDMENT SHALL BE CLASS "B" UNLESS OTHERWISE SHOWN ON PLANS.



BEDDING DETAIL CLASS "C"



PVC FORCEMAIN EMBEDMENT DETAIL



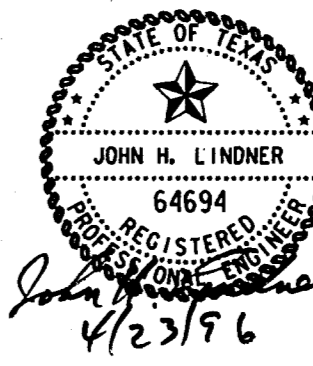
STANDARD CAST-IN-PLACE CONCRETE MANHOLE

THE BOTTOMS OF ALL MANHOLES ARE TO BE CAST-IN-PLACE.

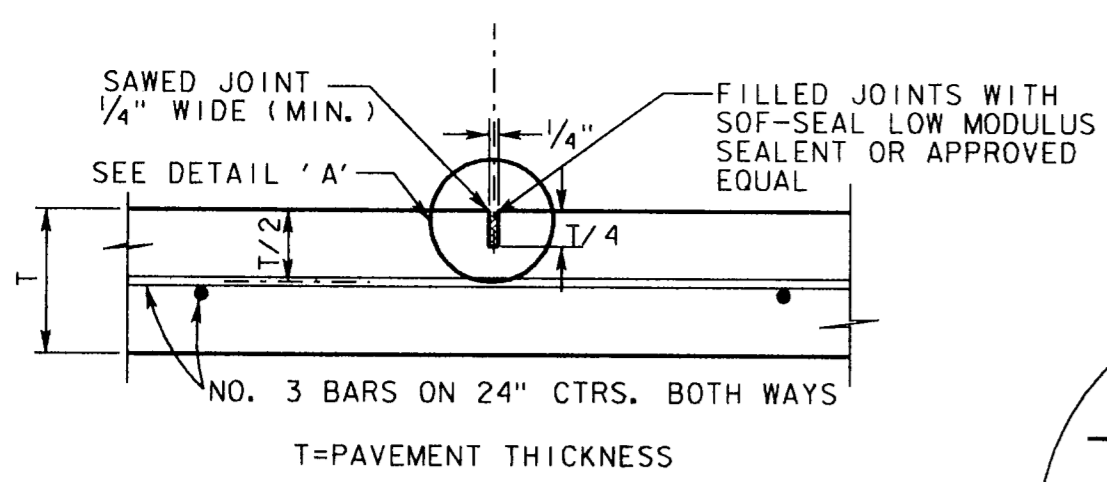
4			
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2	9-4-98	AS BUILT DRAWING	J. H. L.
1	4-23-96	ADDENDUM NO. 1	J. H. L.
NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS
MIDWAY/BELTLINE SANITARY SEWER PHASE II
SANITARY SEWER DETAILS SHEET 1

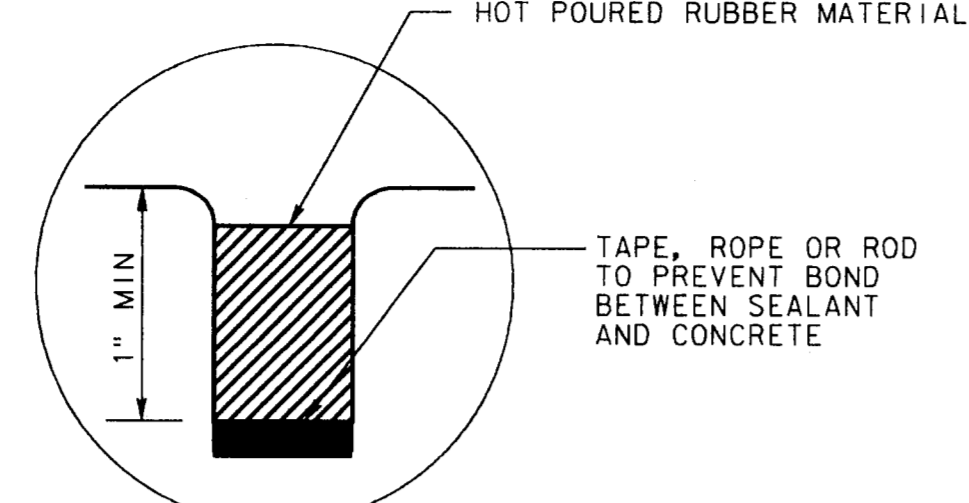
Carter Burgess
 Consultants in Engineering, Architecture, Planning and the Environment
 CARTER & BURGESS, INC.
 7950 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4963



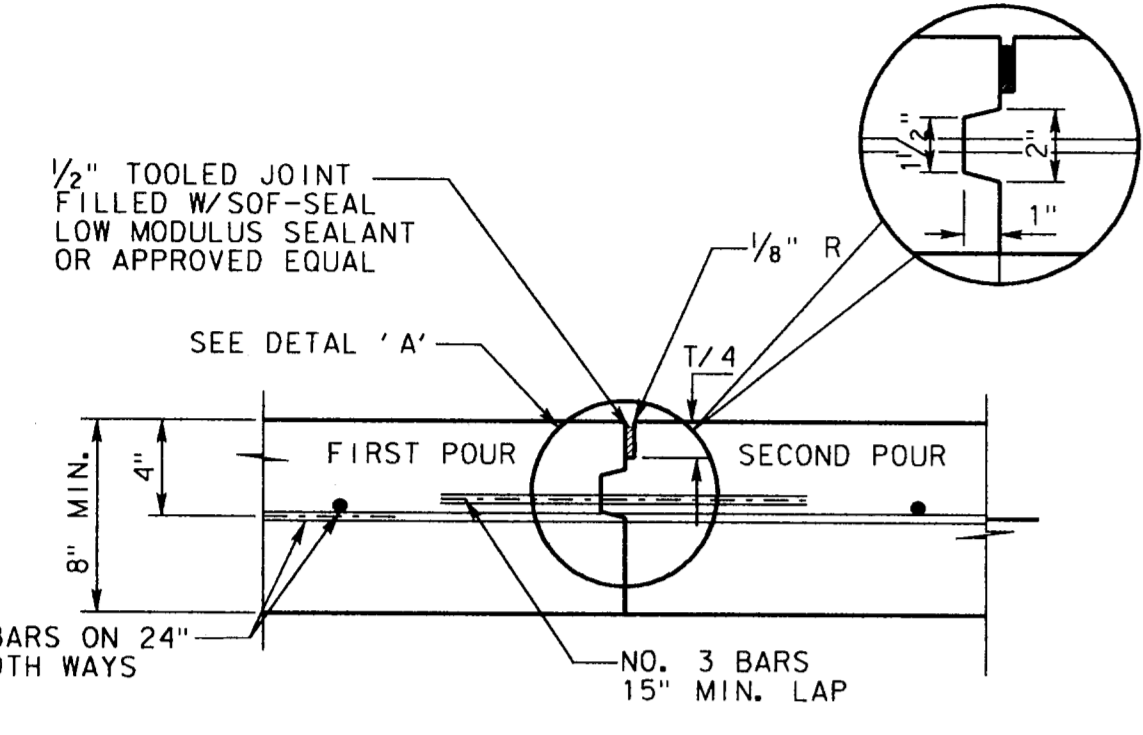
Unit		Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D	Sheet	36 of 63



SAWED DUMMY JOINT
 (TRANSVERSE DUMMY JOINT TO BE SPACED 16" MIN. & 22" MAX. TO MATCH EXISTING)

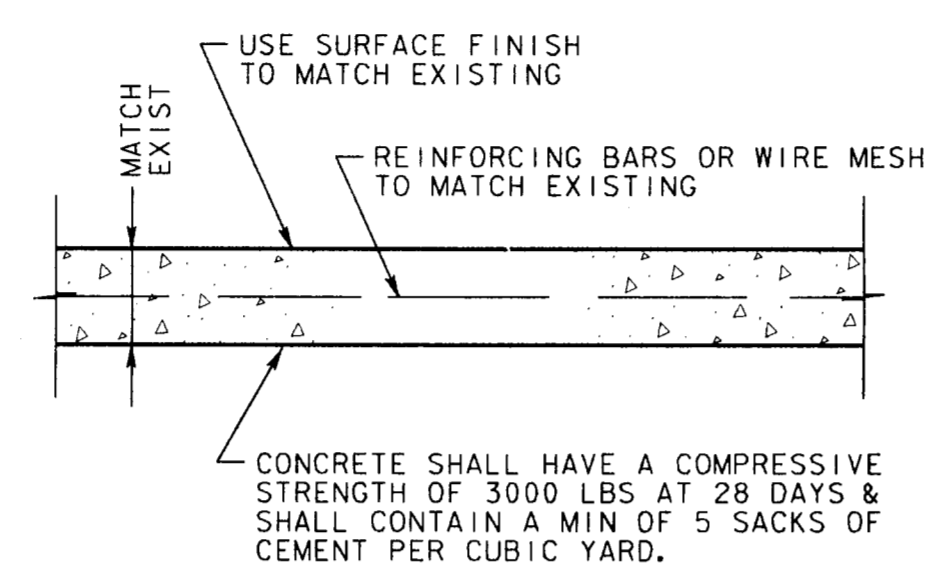


DETAIL 'A'

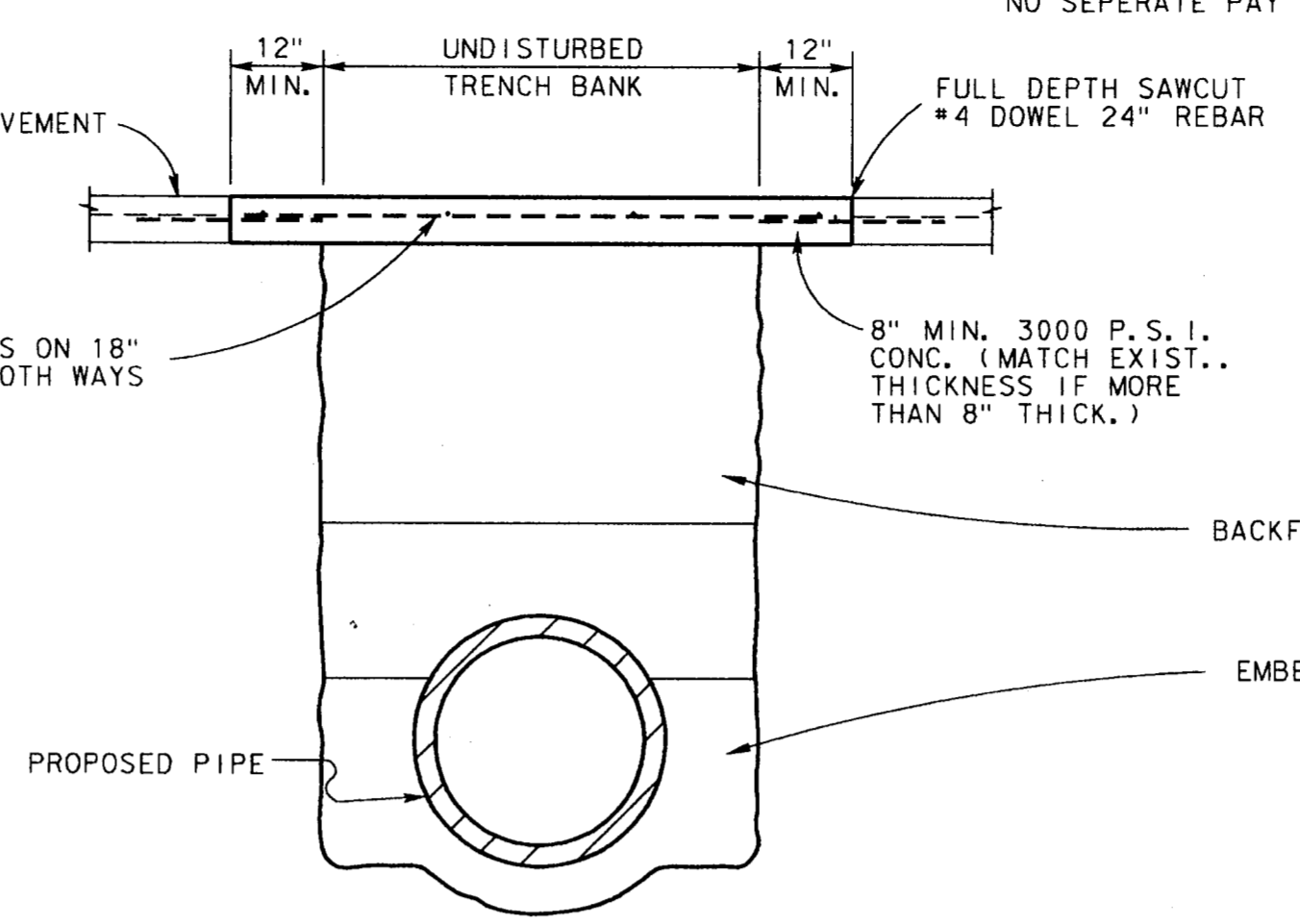


CONSTRUCTION JOINT FOR PAVEMENTS
 FOR 8" THICKNESS PAVEMENT AND LONGITUDINAL JOINTS

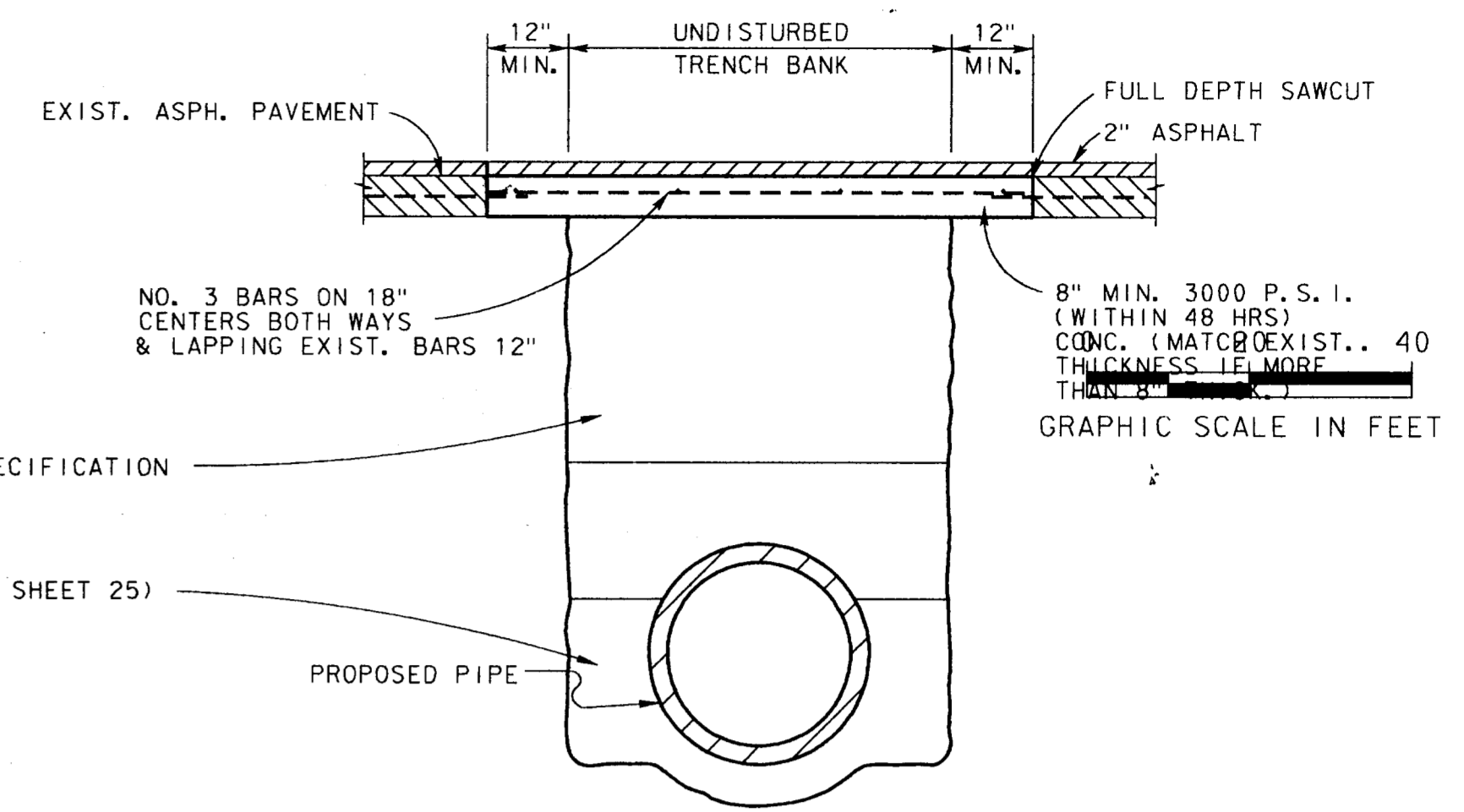
NOTE:
 CONTRACTOR SHALL PROTECT KEYWAY PRIOR TO SECOND POUR. IF LONGITUDINAL KEYWAY IS DAMAGED, CONTRACTOR SHALL REPAIR WITH THE USE OF LONGITUDINAL BUTT JOINT. DRILL DOWELS INTO FIRST POUR.
 T=PAVEMENT THICKNESS
 THICKENED EDGES ARE REQUIRED FOR FUTURE WIDENING ONLY.



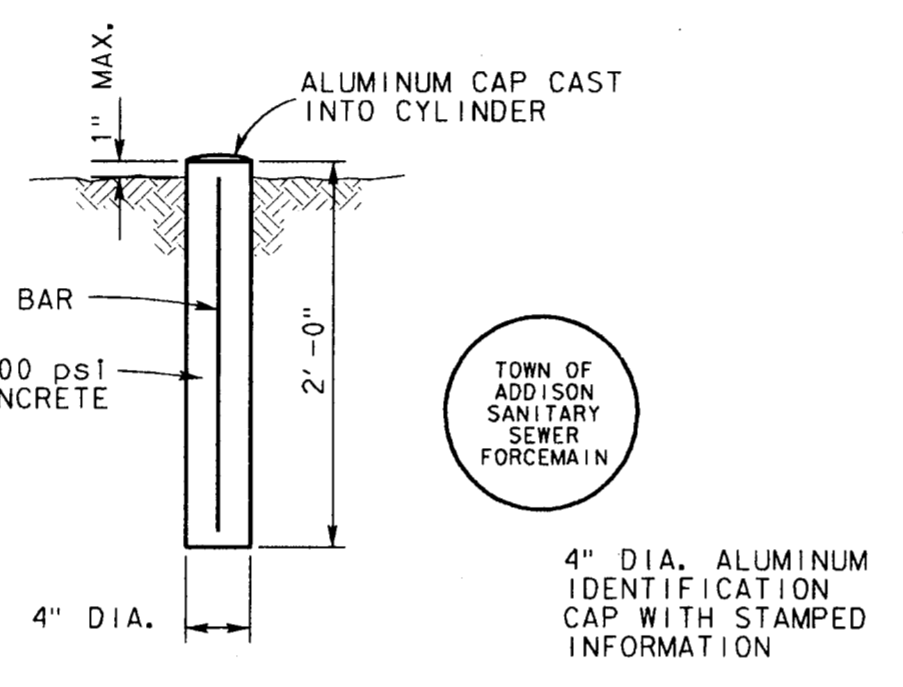
CONCRETE RIPRAP DETAIL



CONCRETE STREET OR DRIVEWAY REPAIR

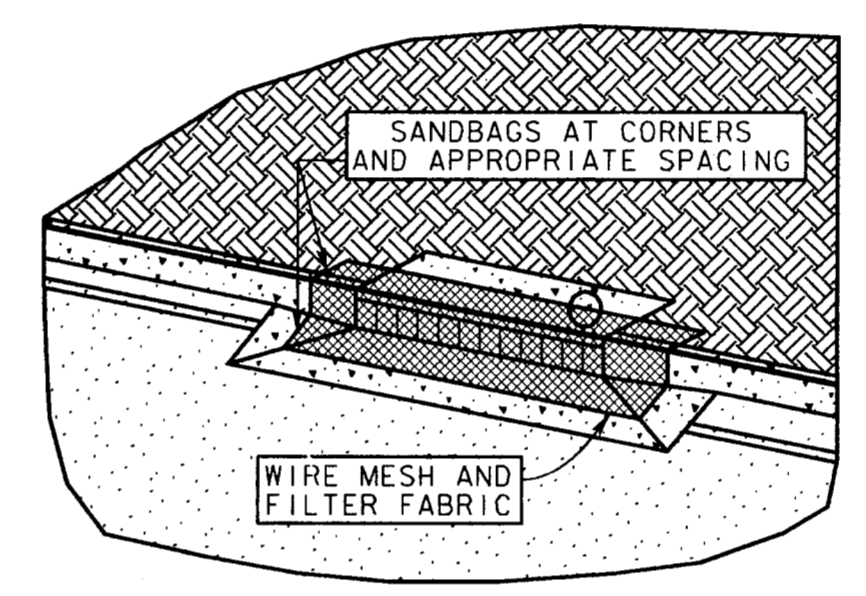


ASPHALT STREET OR DRIVEWAY REPAIR

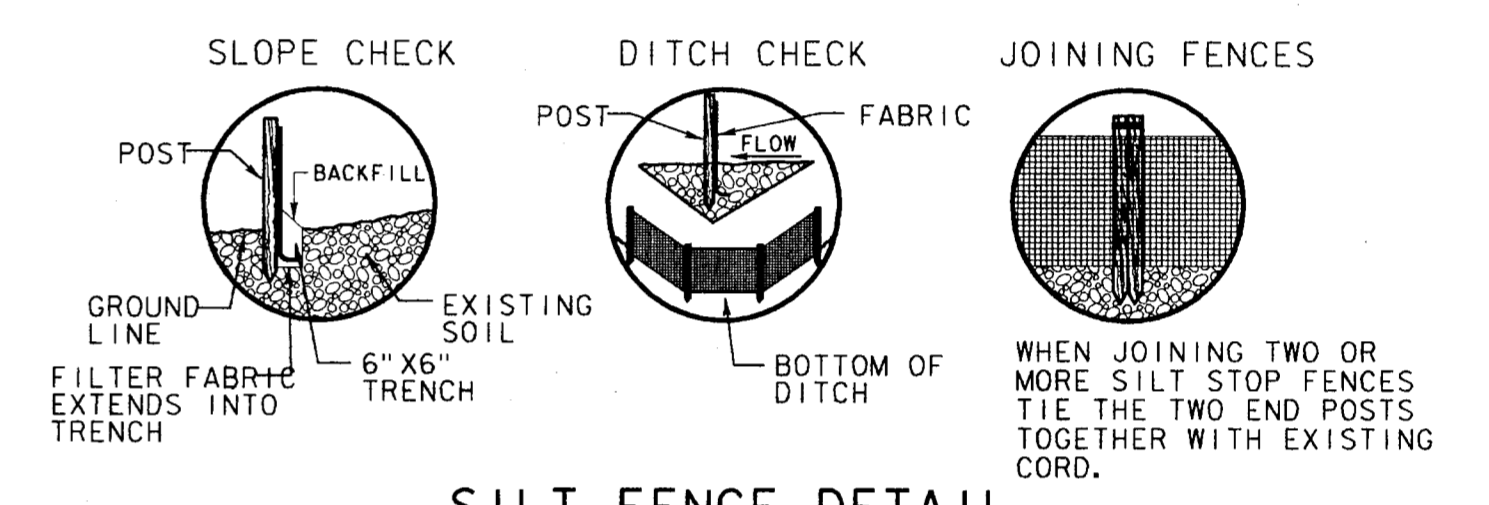


FORCE MAIN MARKER DETAIL

LOCATE FORCE MAIN MARKERS ON CENTERLINE AT 300 FEET MAXIMUM SPACING AND AT ALL P. I.'S.

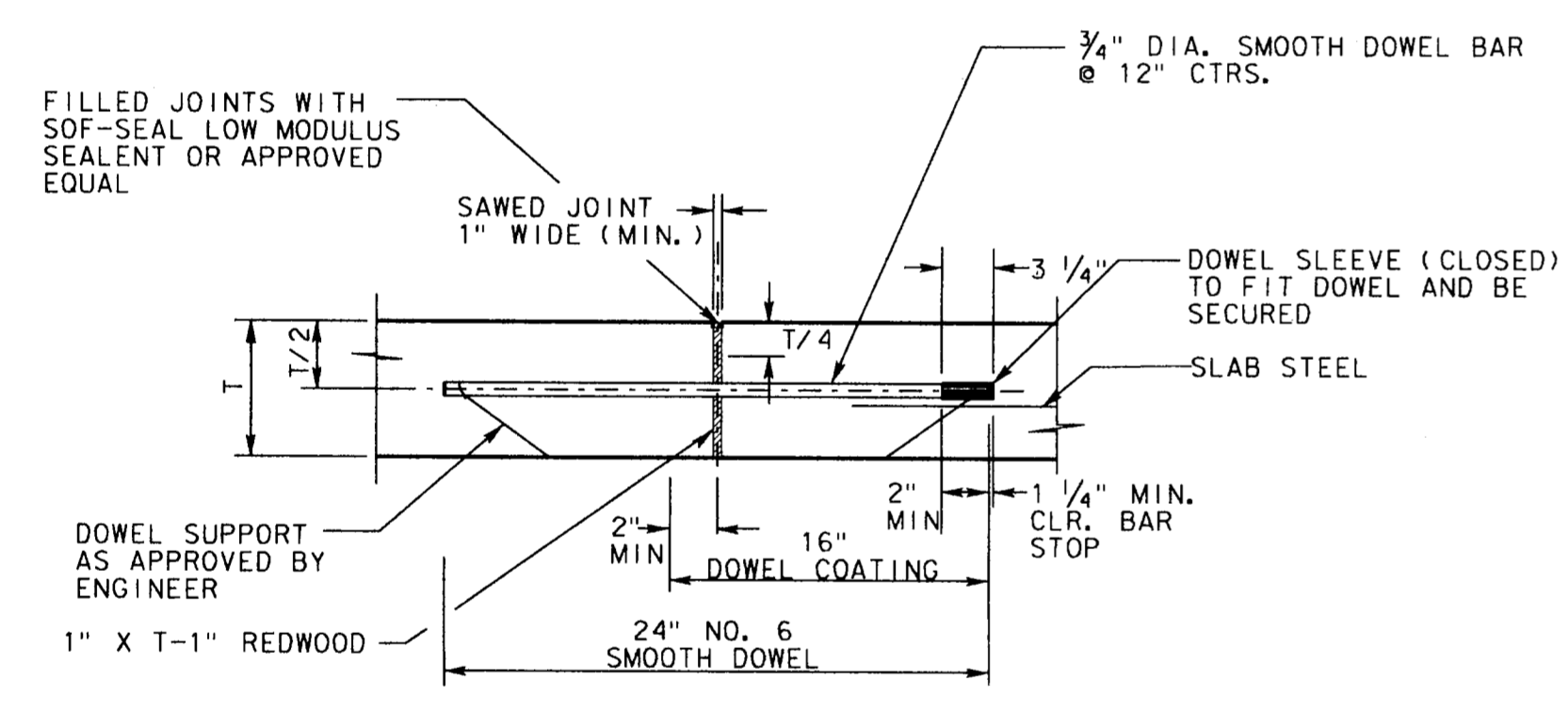


SEDIMENT BARRIER AT INLET OR APPROVED EQUAL



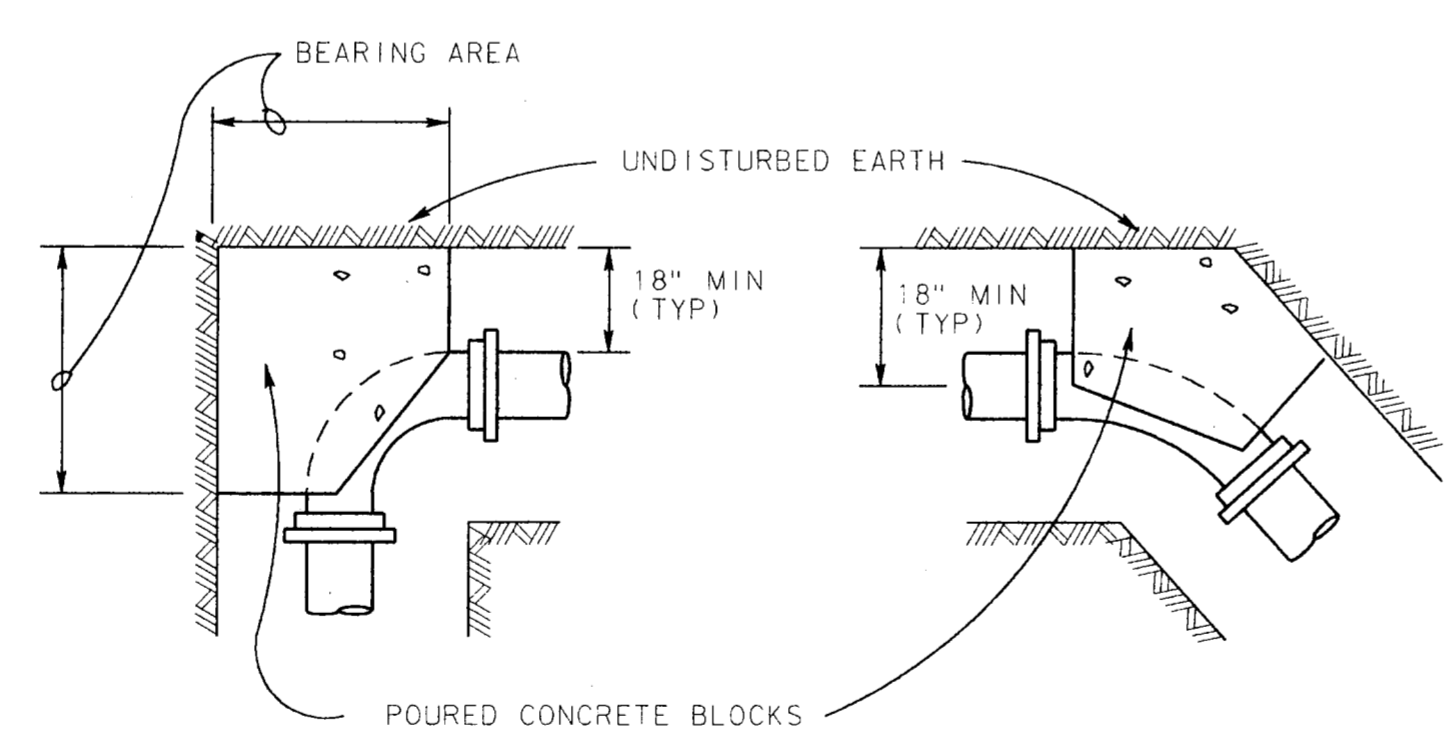
SILT FENCE DETAIL
 (NOT TO SCALE)

NOTE:
 1.) SILT FENCE FABRIC SHALL BE MIRAFI 100 X OR EQUAL.
 2.) INSTALL SILT FENCES AND HAY BALES AT LOCATIONS DIRECTED BY OWNER.
 3.) FENCE POSTS SHALL BE GALVANIZED STEEL AND MAY BE ROLLED, FORMED OR TUBULAR IN CROSS-SECTION. "T" POSTS MAY BE USED WHEN IN CONFORMANCE WITH SPECIFICATION.



TRANSVERSE EXPANSION JOINT

NOTES:
 1. DOWEL SPACER TO BE PLACED ON FIRST POURED SIDE OF DOWELS.
 2. SPACER SHALL BE ALIGNED SUCH THAT DOWELS ARE PARALLEL TO EACH OTHER, AND PERPENDICULAR TO REDWOOD.

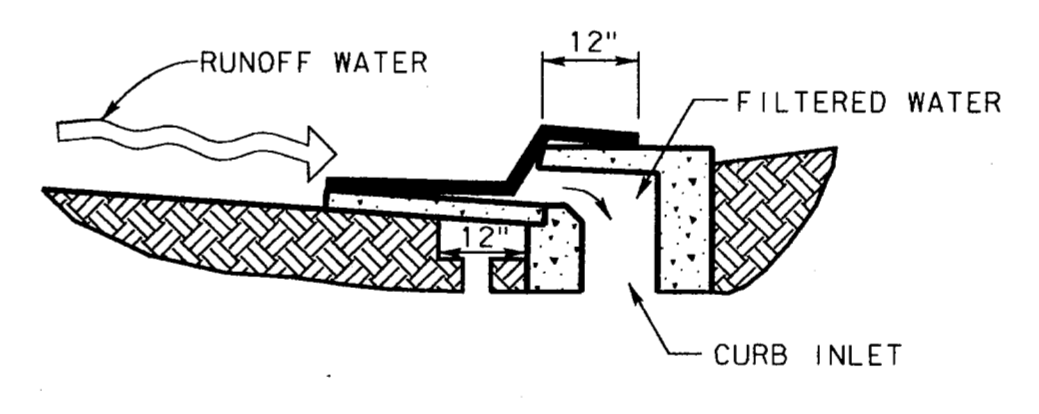


FITTING SIZES	BEARING AREA OF BLOCK IN SQ. FT.				
	TEE & END	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
6"	3.6	5.4	2.5	1.5	0.8
8"	6.3	8.9	4.8	2.5	1.3
10"	9.9	13.9	7.6	3.9	2.0
12"	14.2	20.0	10.9	5.6	2.8

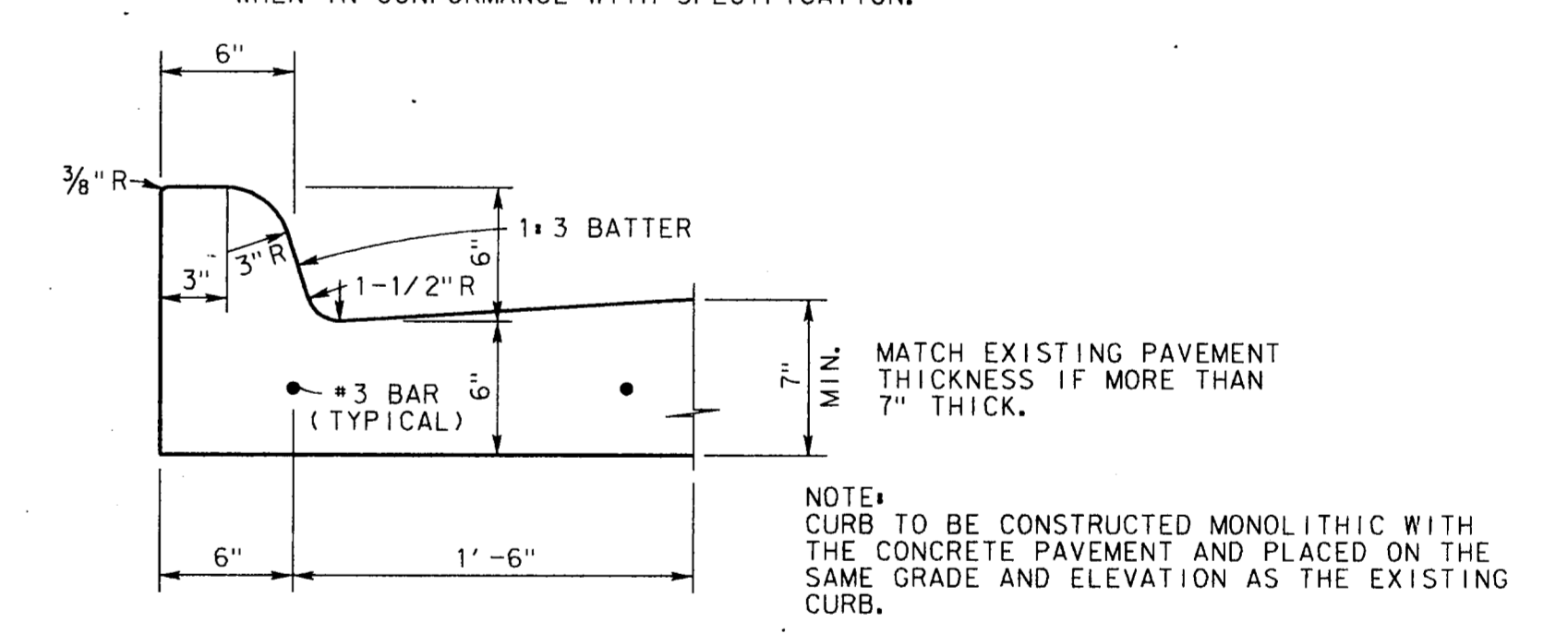
NOTE:
 AREAS BASED ON PIPE BURST PRESSURE OF 250 PSI.
 SOIL BEARING PRESSURE MULTIPLIER

1000	2.0
1500	1.33
2000	1.0
3000	0.67

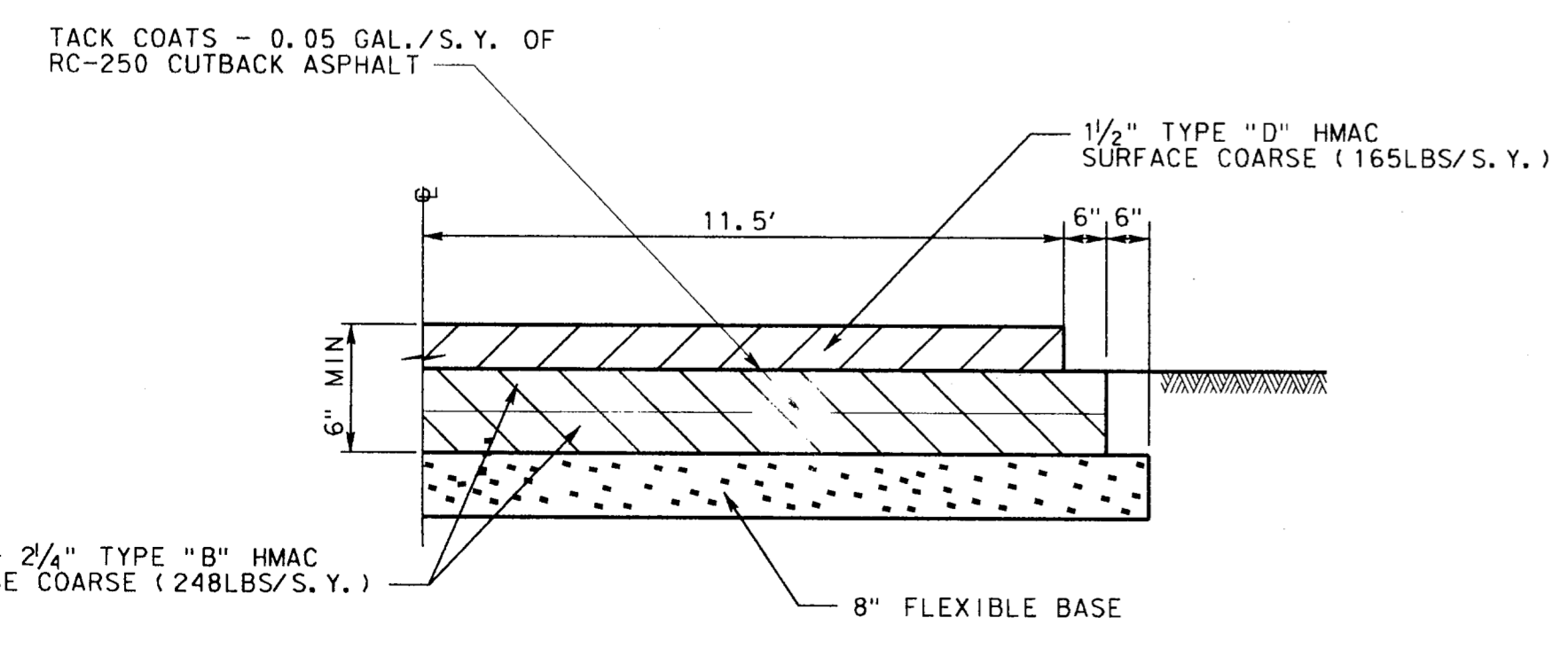
THRUST BLOCK DETAILS
 NOT TO SCALE



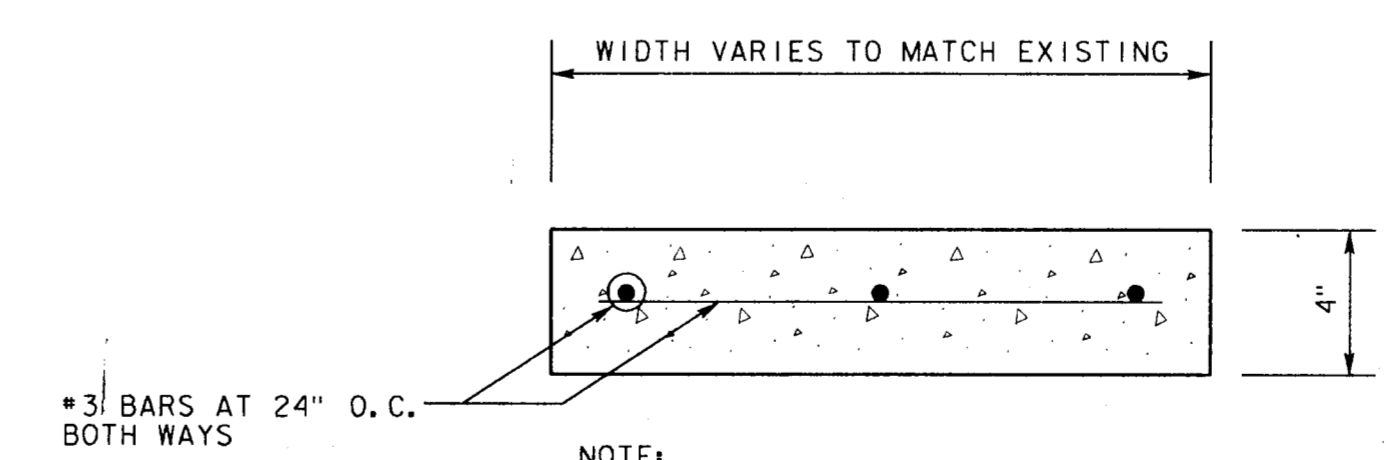
SEDIMENT BARRIER AT INLET OR APPROVED EQUAL



6" CONCRETE CURB



6 INCH ASPHALT PAVEMENT DETAIL



SIDEWALK REPLACEMENT DETAIL

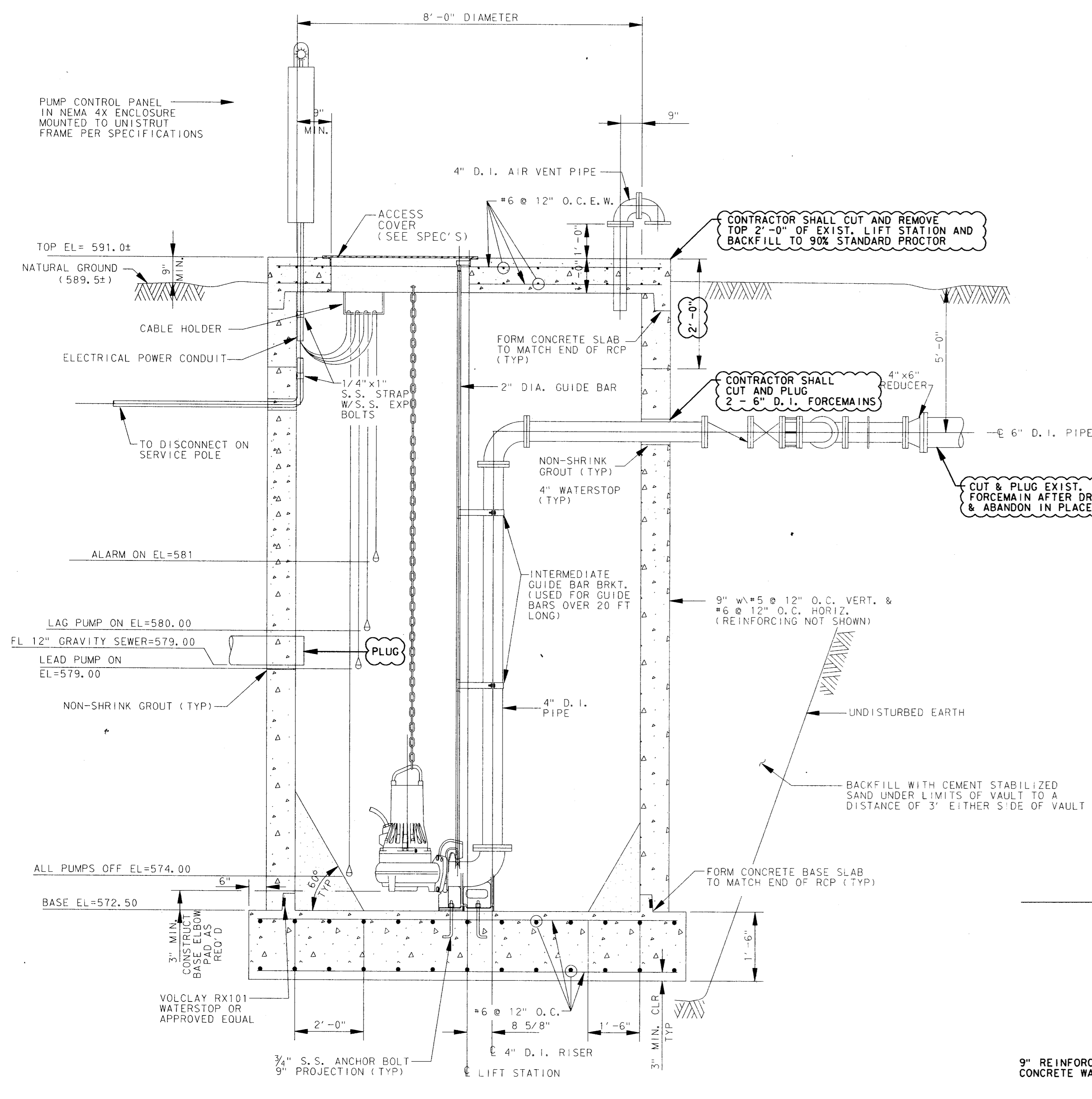
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1	3-4-98	AS BUILT DRAWING	J.H.L.
NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS
MIDWAY/BELTLINE SANITARY SEWER PHASE II
SANITARY SEWER DETAILS SHEET 2

Carter Burgess
 Consultants in Engineering, Architecture, Planning and the Environment
 CARTER & BURGESS, INC.
 7950 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961

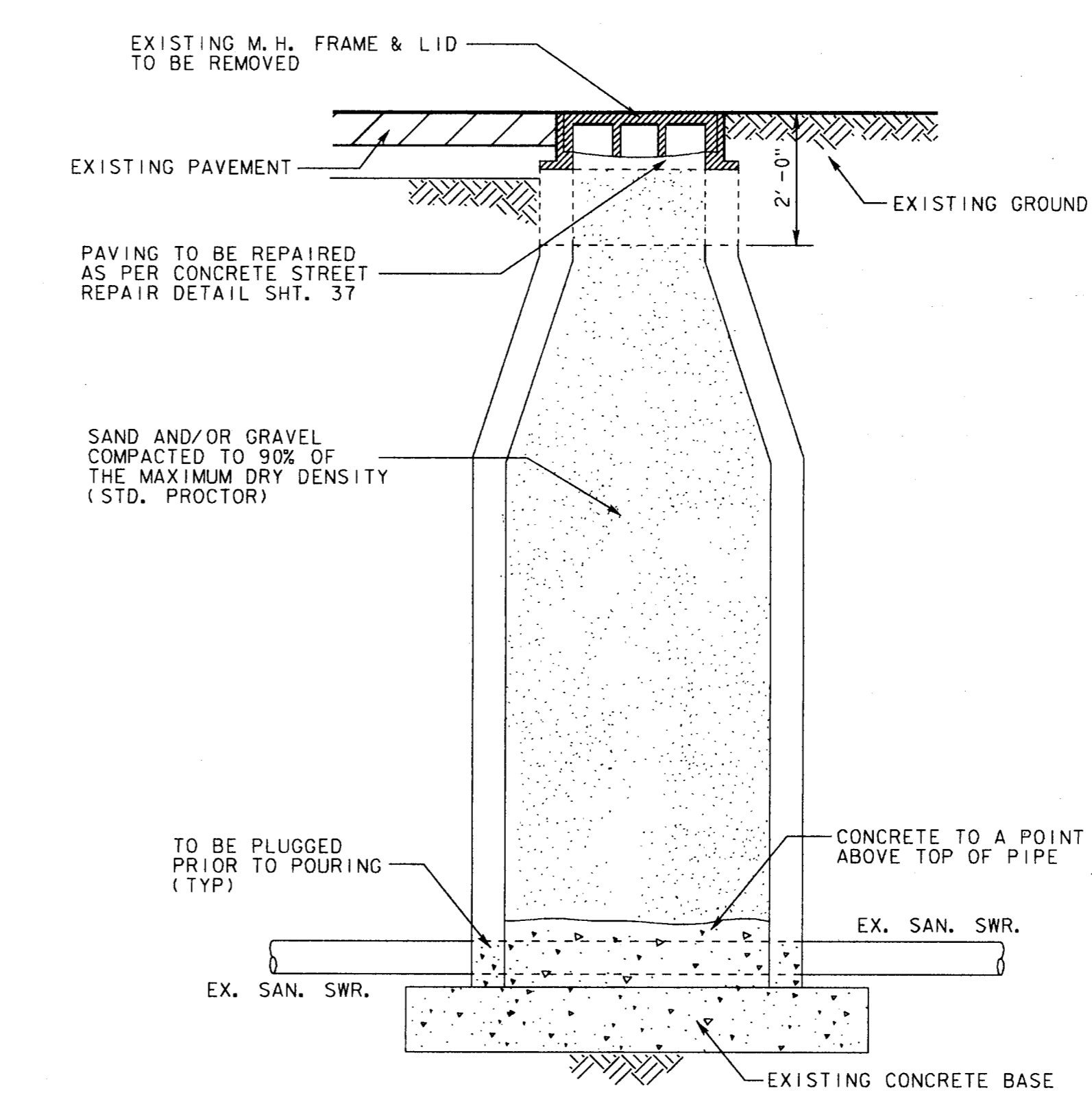
STATE OF TEXAS
 JOHN H. LINDNER
 64694
 REGISTERED PROFESSIONAL ENGINEER
 415196

Unit	Scale	1" = 2'	Date	04-05-98
Designed	J. Lindner	Checked	J. Lindner	Job No. 93327601D
Drawn	R. Howman	Approved	J. Lindner	Sheet 37 of 63



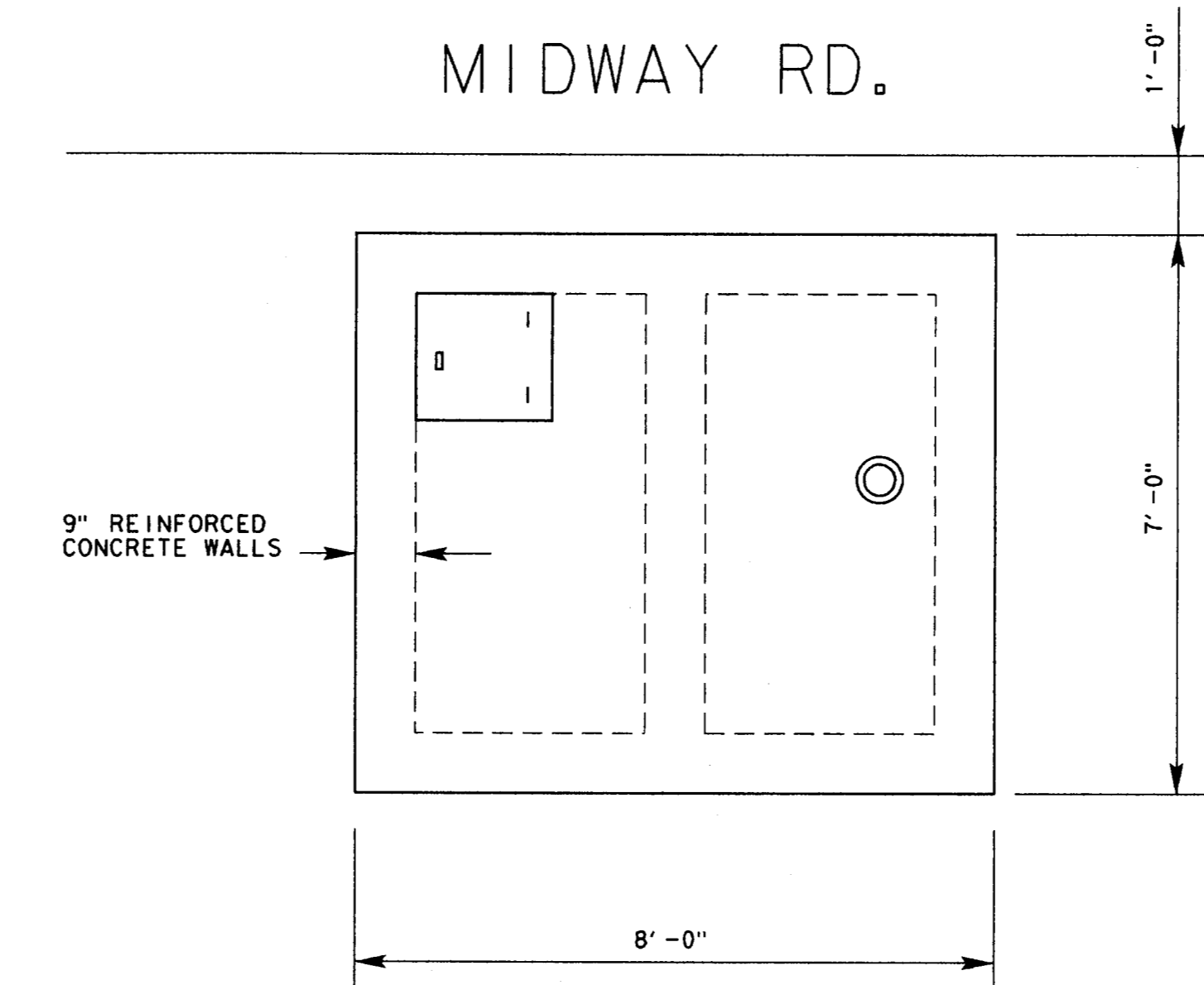
**RAWHIDE CREEK LIFT STATION
ABANDONMENT DETAIL**

☁ - INDICATES WORK TO BE DONE AS PART OF THIS CONTRACT.



**ABANDONMENT OF
EXISTING MANHOLE**

NOTE: ABANDONMENT OF MANHOLE UNIT PRICE SHALL INCLUDE PAVEMENT, SOD AND LANDSCAPE REMOVAL AND REPLACEMENT.



**MIDWAY METER STATION
ABANDONMENT DETAIL**

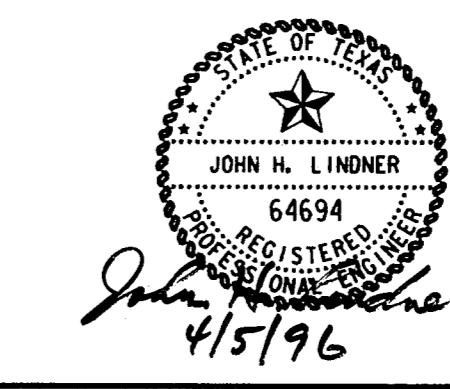
- NOTES:
1. REMOVE TOP AND WALLS OF METER STATION TO 2'-0" FT BELOW EXISTING GRADE AND DISPOSE.
 2. CUT AND PLUG EXISTING S.S. LINES.
 3. FILL LIFT STATION WITH BACKFILL MATERIAL AND COMPACT TO 90% STANDARD PROCTOR. USE TOPSOIL FOR TOP 1'-0" AND SOD.

- NOTES:
1. REMOVE AND DELIVER TO THE TOWN OF ADDISON 2 PUMPS, ELECTRICAL CONTROLS, CONTROL PANELS AND FLOATS.
 2. REMOVE TOP 2'-0" OF LIFT STATION INCLUDING HATCH, VENT AND DISPOSE.
 3. REMOVE AND DISPOSE OF ALL PIPING.
 4. FILL LIFT STATION WITH BACKFILL MATERIAL AND COMPACT TO 90% STANDARD PROCTOR. USE TOPSOIL FOR TOP 1'-0" AND SOD.
 5. PUMP OUT EXISTING LIFT STATION & EMPTY 8" FORCEMAIN PRIOR TO ABANDONMENT OF LIFT STATION.

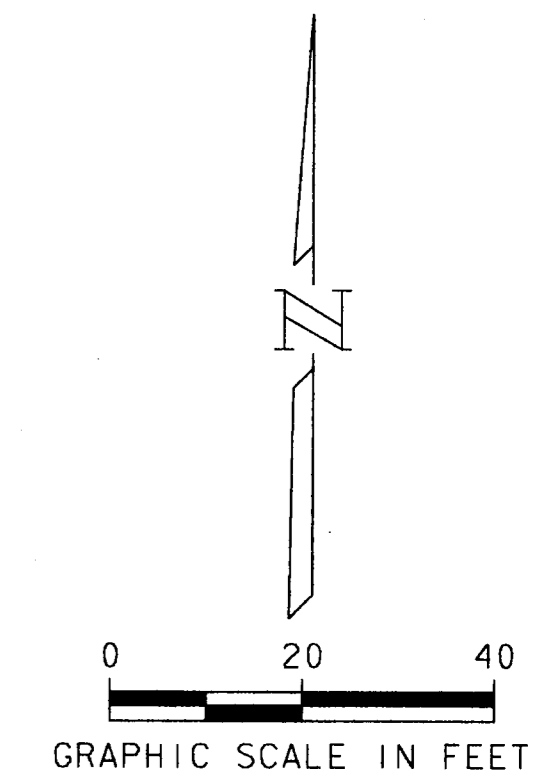
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1	9-4-98	AS BUILT DRAWING	J. N. L.
NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS
MIDWAY/BELTLINE SANITARY SEWER
PHASE II
ABANDONMENT DETAIL SHEET

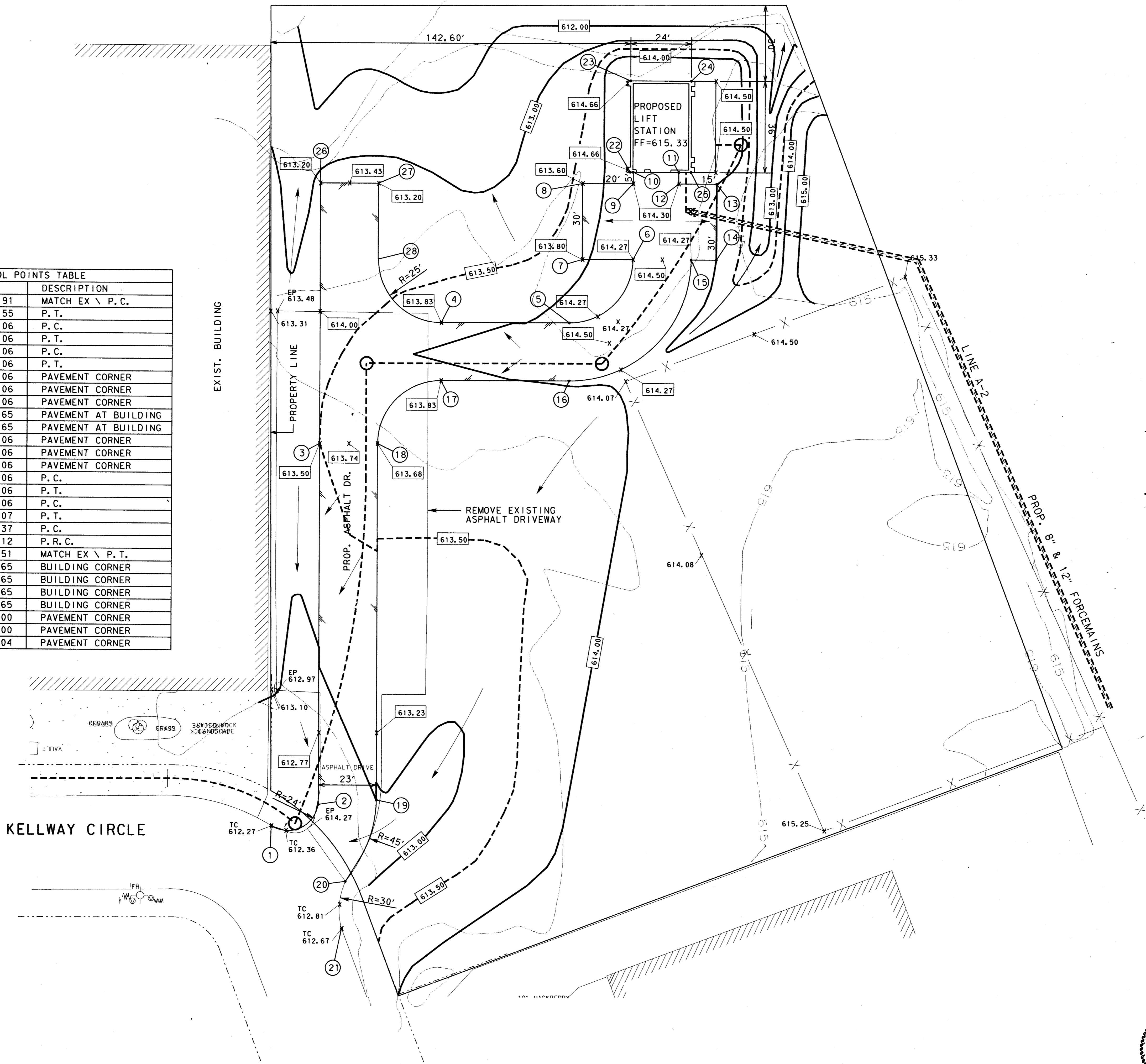
Carter Burgess
Consultants in Engineering, Architecture,
Planning and the Environment
CARTER & BURGESS, INC.
7950 ELMBROOK DRIVE, SUITE 250
DALLAS, TX 75247-4961



Unit#	Scale	Date	04-05-96
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D	Sheet	38 of 63



COORDINATE CONTROL POINTS TABLE			
NO.	N	E	DESCRIPTION
1	2202172.75	475582.91	MATCH EX \ P. C.
2	2202177.02	475592.55	P. T.
3	2202176.92	475735.06	P. C.
4	2202224.89	475783.06	P. T.
5	2202275.77	475783.06	P. C.
6	2202300.77	475808.06	P. T.
7	2202280.77	475808.06	PAVEMENT CORNER
8	2202280.77	475838.06	PAVEMENT CORNER
9	2202300.77	475838.06	PAVEMENT CORNER
10	2202300.77	475842.65	PAVEMENT AT BUILDING
11	2202318.77	475842.65	PAVEMENT AT BUILDING
12	2202318.77	475838.06	PAVEMENT CORNER
13	2202333.77	475838.06	PAVEMENT CORNER
14	2202333.77	475808.06	PAVEMENT CORNER
15	2202323.77	475808.06	P. C.
16	2202275.77	475760.06	P. T.
17	2202224.89	475760.06	P. C.
18	2202199.88	475735.07	P. T.
19	2202199.98	475594.37	P. C.
20	2202187.91	475562.12	P. R. C.
21	2202186.45	475543.51	MATCH EX \ P. T.
22	2202299.61	475842.65	BUILDING CORNER
23	2202299.61	475878.65	BUILDING CORNER
24	2202323.61	475878.65	BUILDING CORNER
25	2202323.61	475842.65	BUILDING CORNER
26	2202176.85	475838.00	PAVEMENT CORNER
27	2202199.81	475838.00	PAVEMENT CORNER
28	2202199.83	475808.04	PAVEMENT CORNER



LEGEND

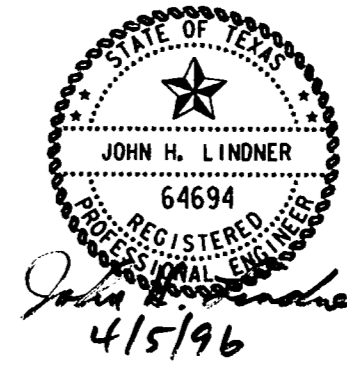
(6)	COORDINATE POINT NUMBER
614.08	EXISTING ELEVATION
614.27	PROPOSED ELEVATION
---	PROPOSED CONTOUR
---	EXISTING CONTOUR

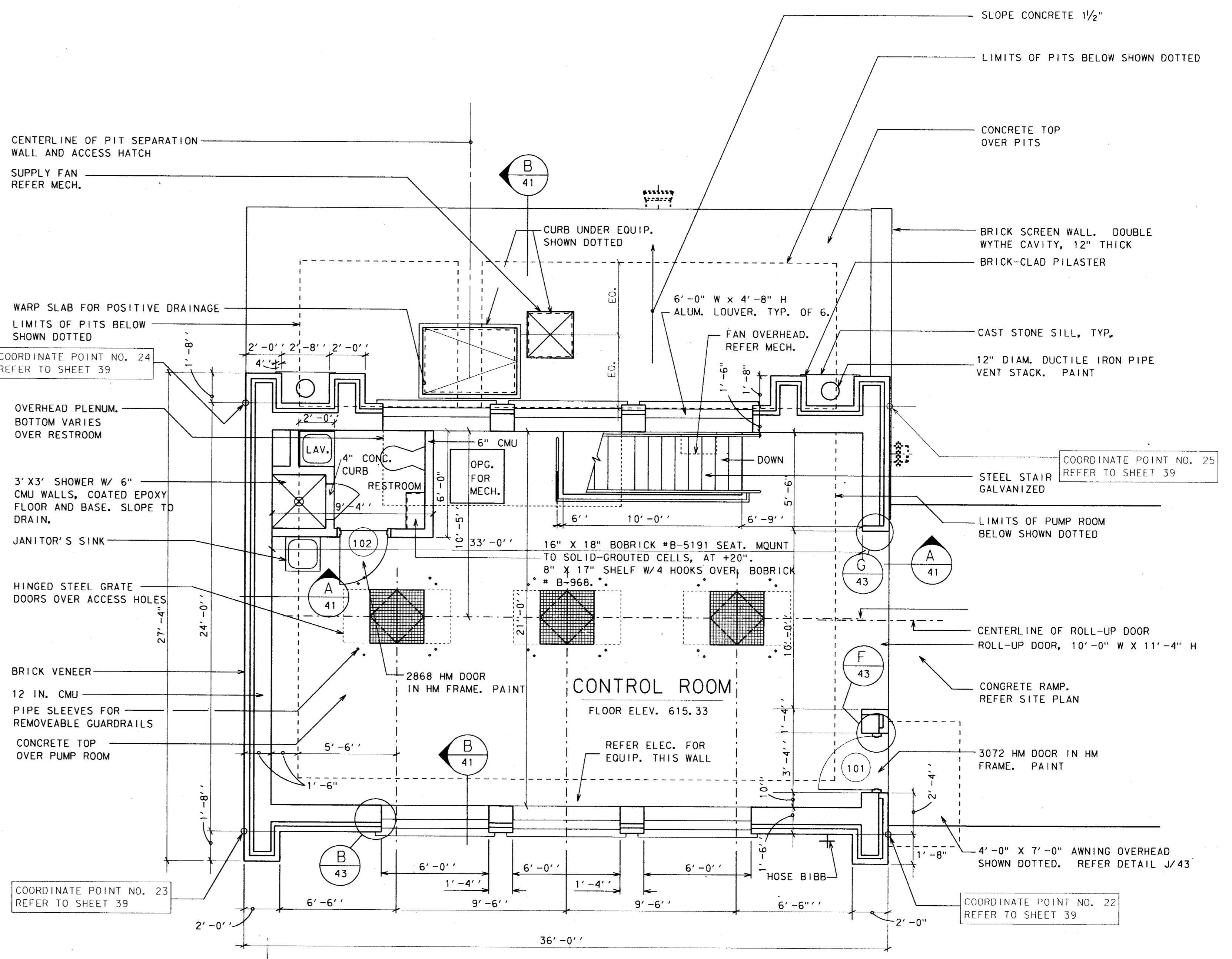
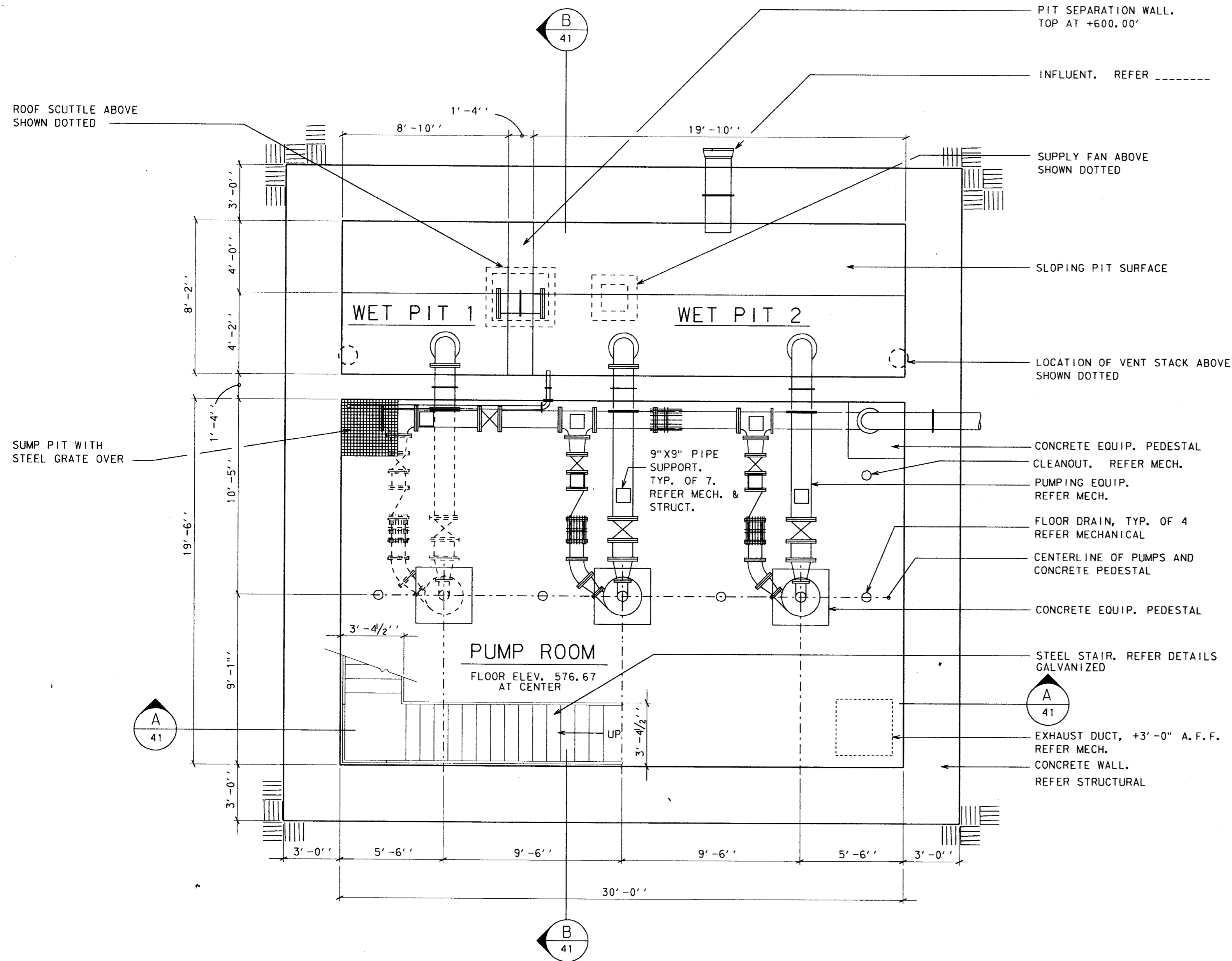
PRELIMINARY - FOR REVIEW ONLY

These documents are for Design Review and not intended for Construction, Bidding, or Permit Purposes. They were prepared by, or under the supervision of:

JOHN LINDNER 64694 01-02-96
 Type or Print Name PE Date

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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LIFT STATION SITE & GRADING PLAN			
Carter Burgess Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7350 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961			
Unit	Scale	1"=20'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner Job No. 93327601D
Drawn	R. Howman	Approved	J. Lindner Sheet 39 of 63

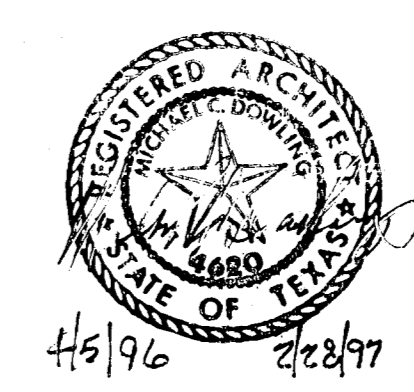


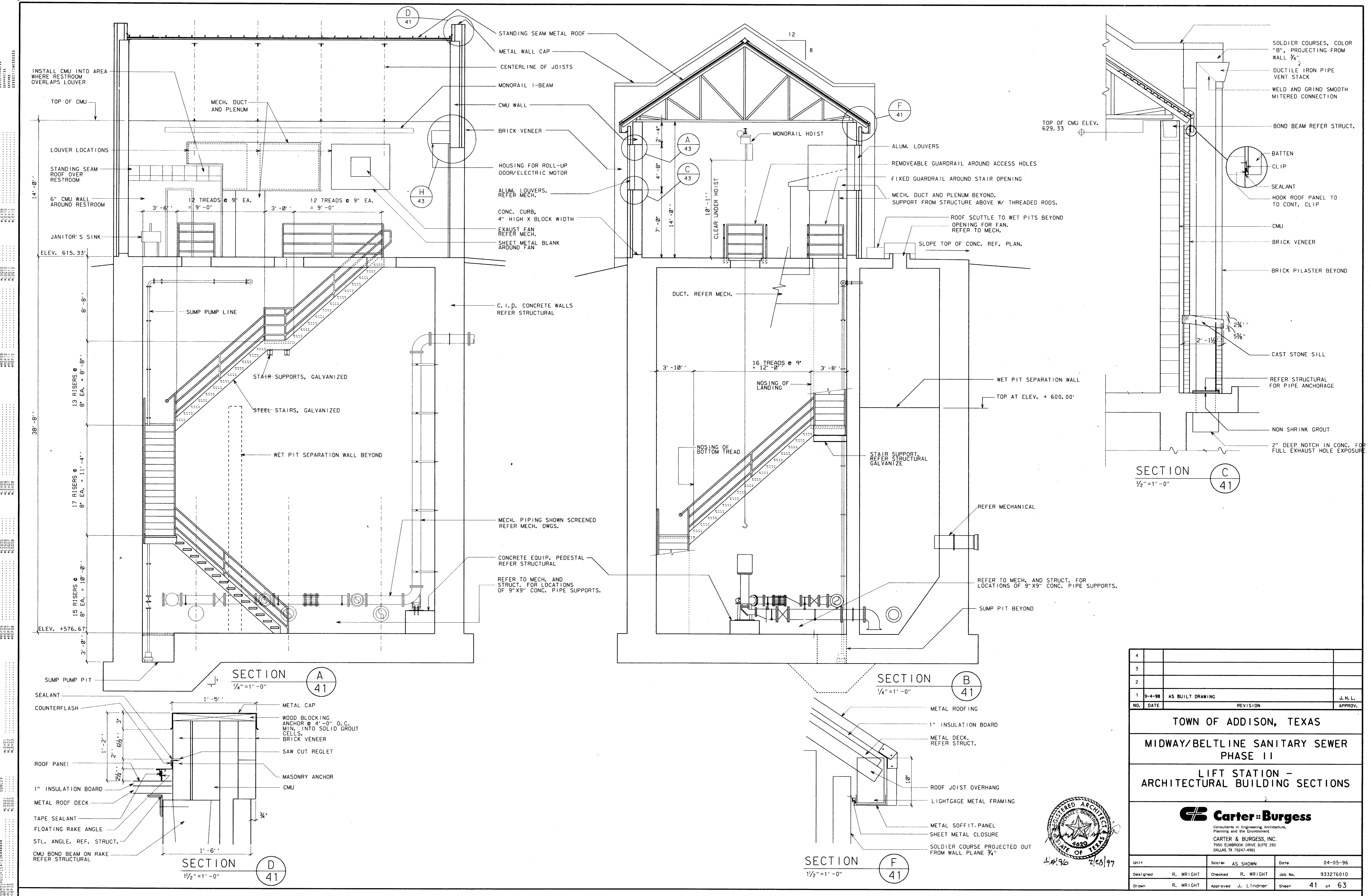


GENERAL NOTES:

- REFER TO SPECIFICATION SECTIONS
 09700 - SPECIAL FLOOR COATINGS AND
 09800 - SPECIAL COATINGS FOR FINISHES.
- SHOWER DOOR:
 HEAVY DUTY, 2'-0" x 6'-0". 1/4" WIDE STAINLESS
 STEEL FRAME HARDWARE AND ACCESSORIES. 1/2"
 TEMPERED PRIVACY GLASS. PROVIDE ALL STRIKES,
 BLOCKS, ATTACHMENTS AND OTHER COMPONENTS
 FOR COMPLETE SYSTEM.

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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LIFT STATION - ARCHITECTURE FLOOR PLAN			
Carter & Burgess Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961			
Unit	Scale	Date	04-05-96
Designed	R. WRIGHT	Checked	R. WRIGHT
Drawn	R. WRIGHT	Approved	J. Lindner
Job No.	93327601D	Sheet	40 of 63





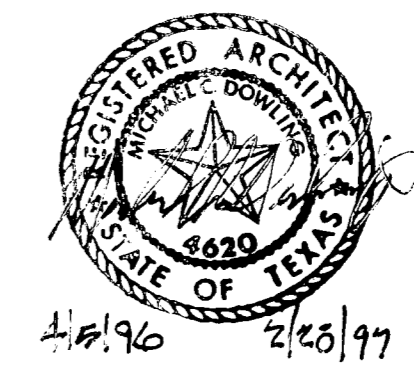
REVISIONS
 NO. DATE BY
 1 9-4-98 AS BUILT DRAWING J.H.L.
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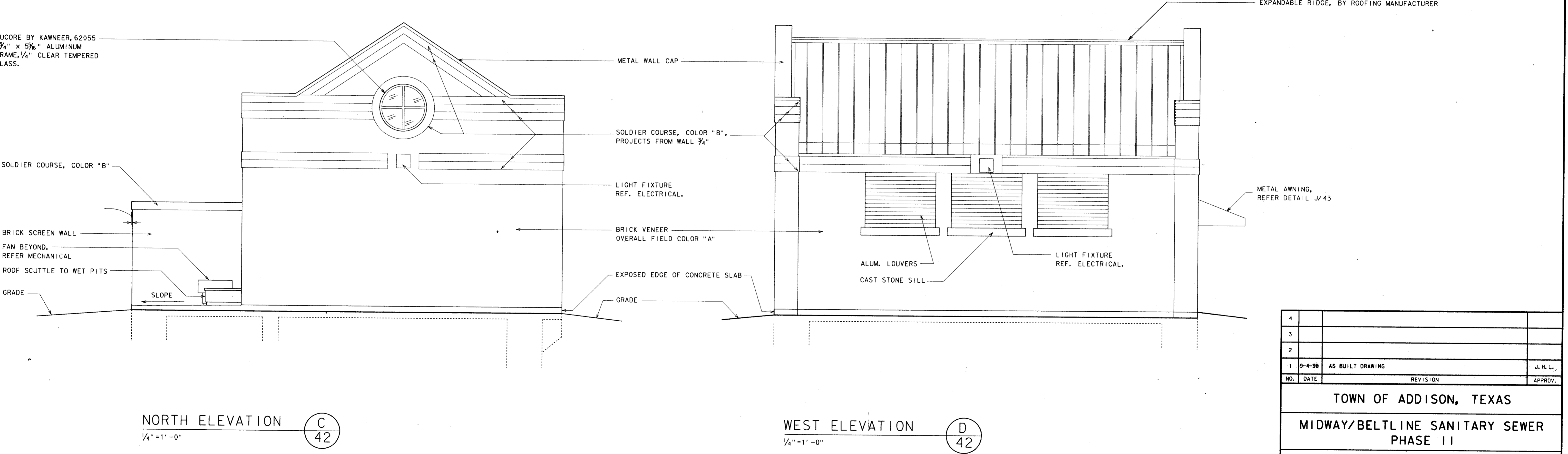
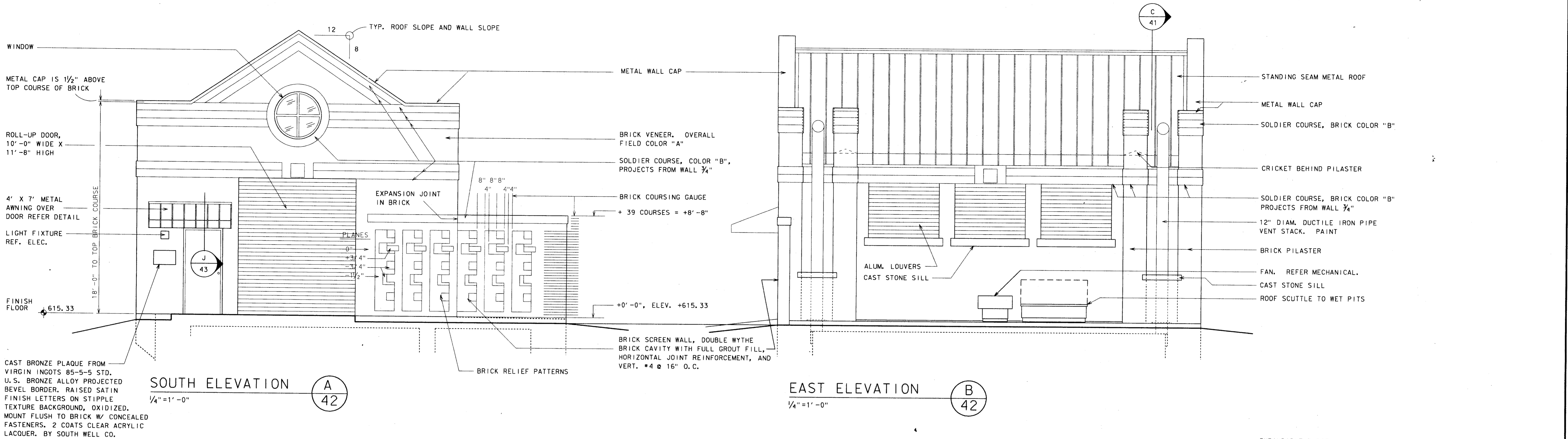
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1	9-4-98	AS BUILT DRAWING	J.H.L.
NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS
MIDWAY/BELTLINE SANITARY SEWER
PHASE II
LIFT STATION -
ARCHITECTURAL BUILDING SECTIONS

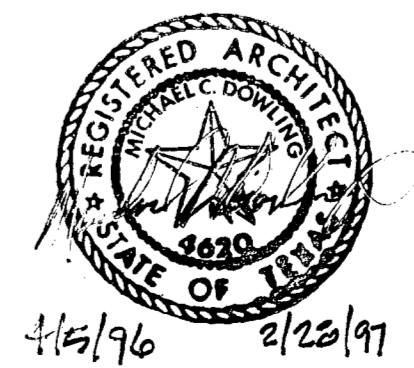



Unit	AS SHOWN	Date	04-05-96
Designed	R. WRIGHT	Checked	R. WRIGHT
Drawn	R. WRIGHT	Approved	J. Lindner
Job No.	93327601D	Sheet	41 of 63

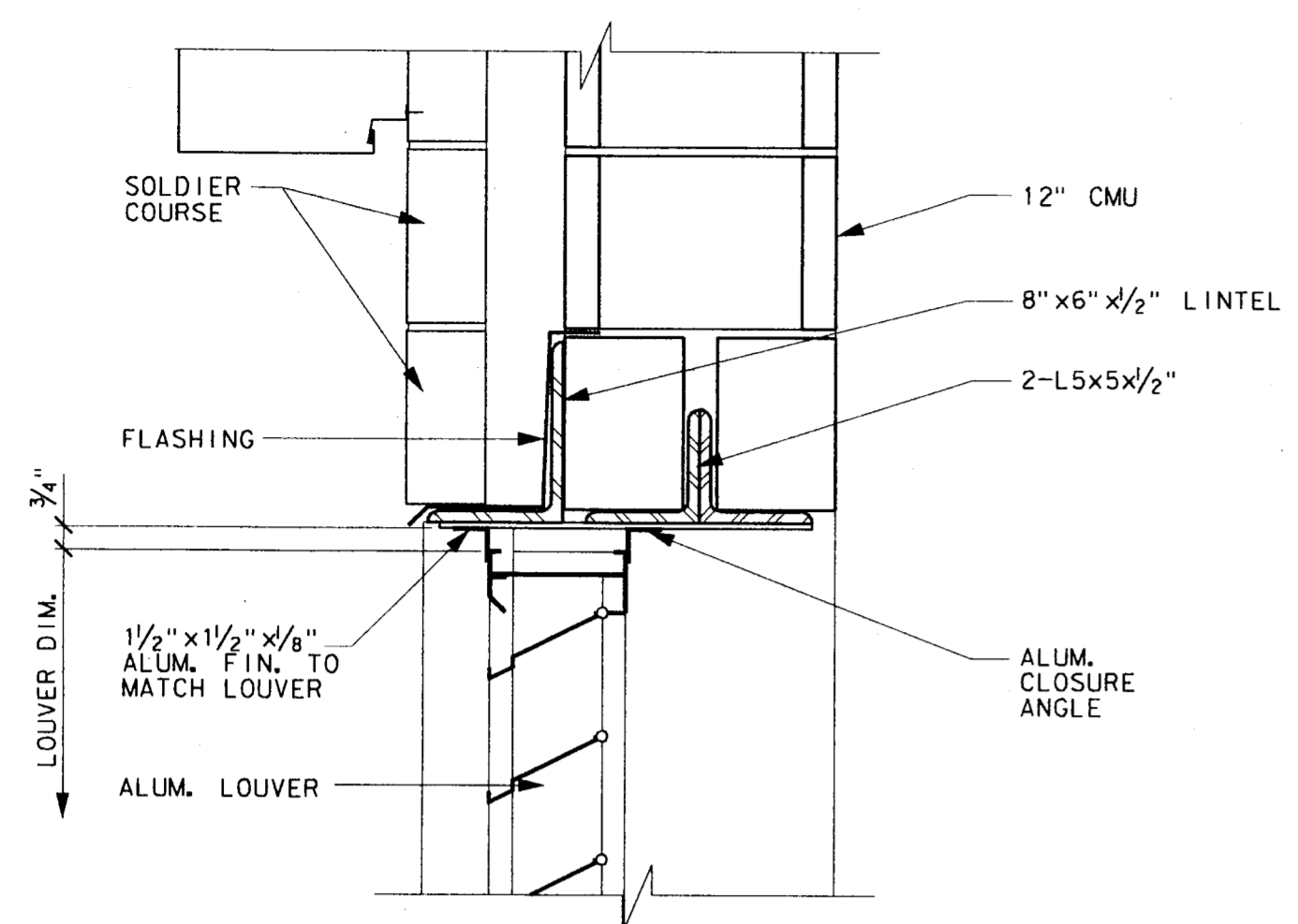




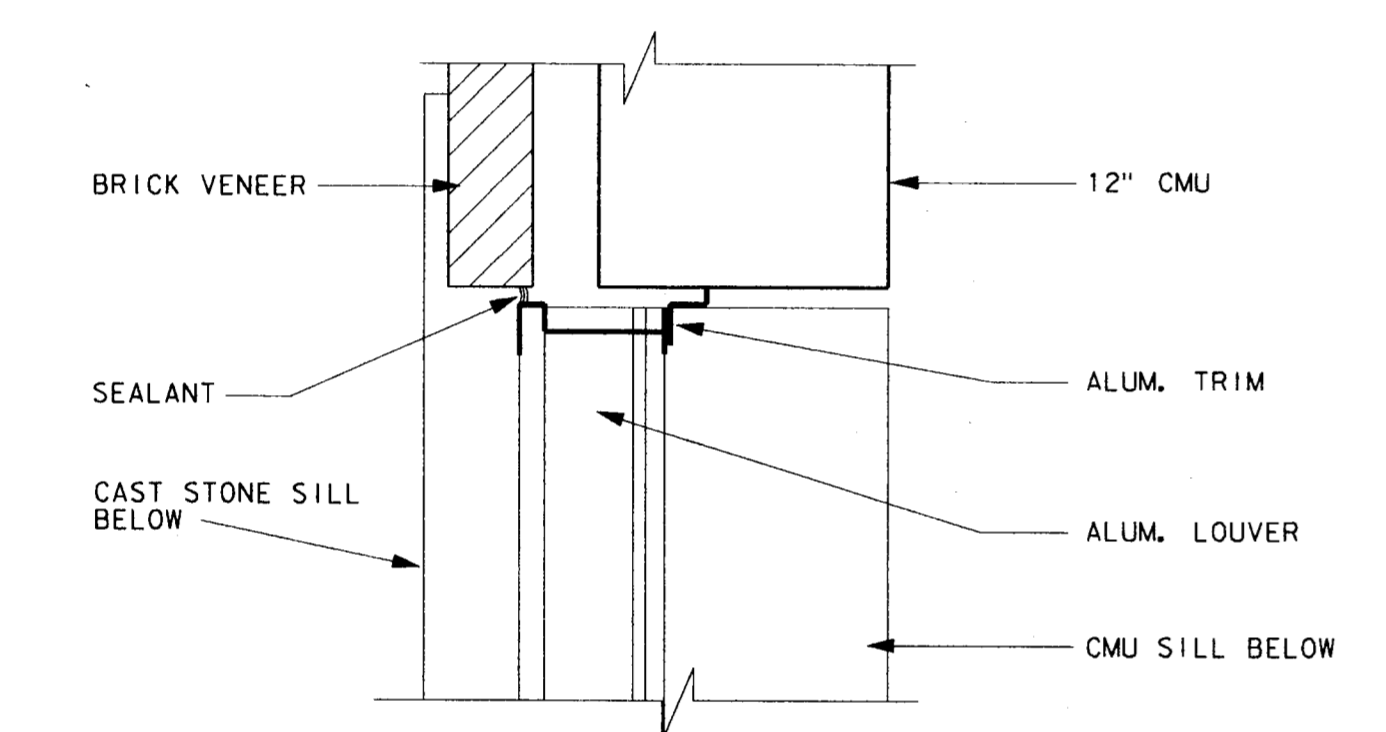
GENERAL NOTES:
 1. CAST STONE TO BE 6,500 PSI W/ LESS THAN 6% WATER ABSORPTION. WHITE CEMENT. MANUFACTURER TO BE MEMBER OF CAST STONE INSTITUTE.



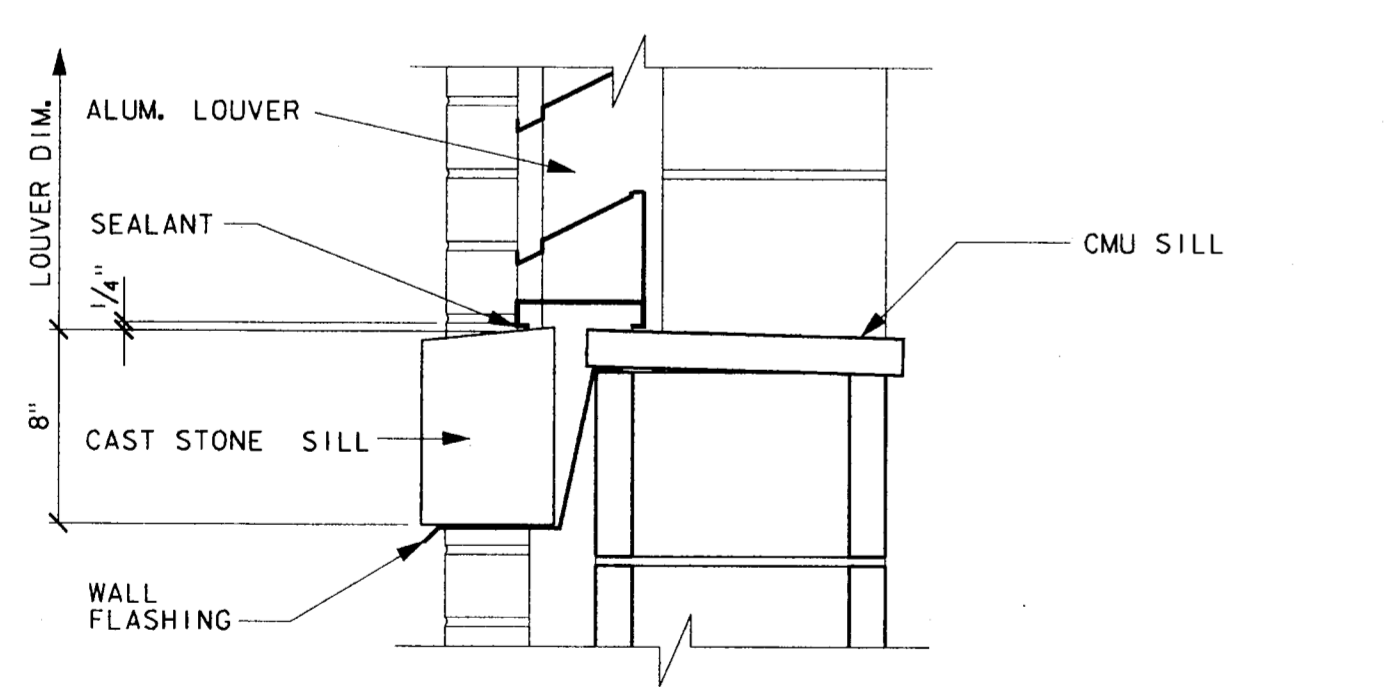
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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LIFT STATION - ARCHITECTURAL EXTERIOR ELEVATIONS			
 Carter & Burgess Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 EMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961			
Unit	Scale	Date	04-05-96
Designed	R. WRIGHT	Checked	R. WRIGHT
Drawn	R. WRIGHT	Approved	J. Lindner
Job No.	93327601D		Sheet
42		of 63	



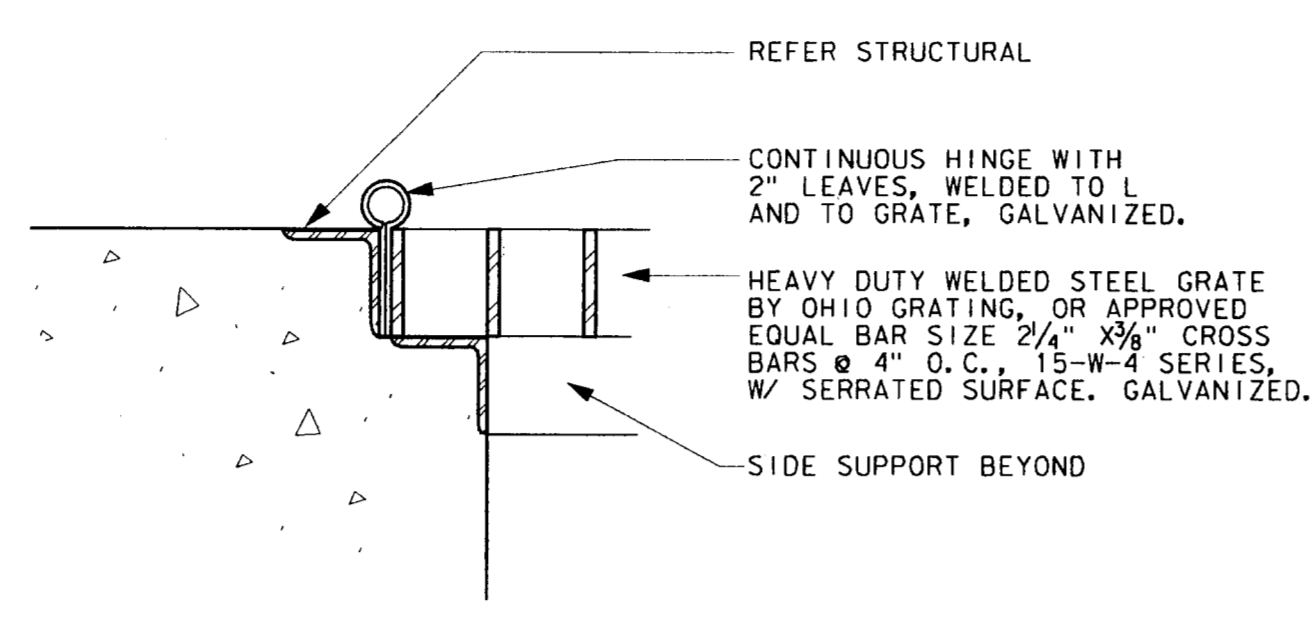
LOUVER HEAD (A) 43
1/2" = 1'-0"



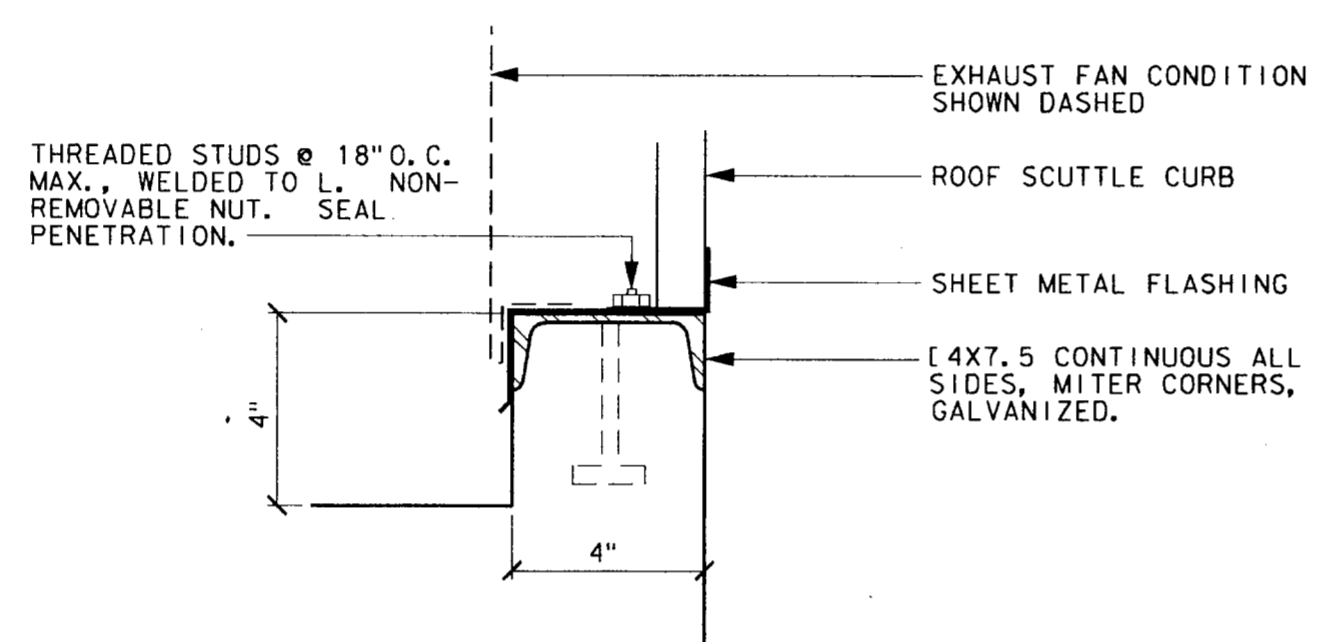
LOUVER JAMB (B) 43
1/2" = 1'-0"



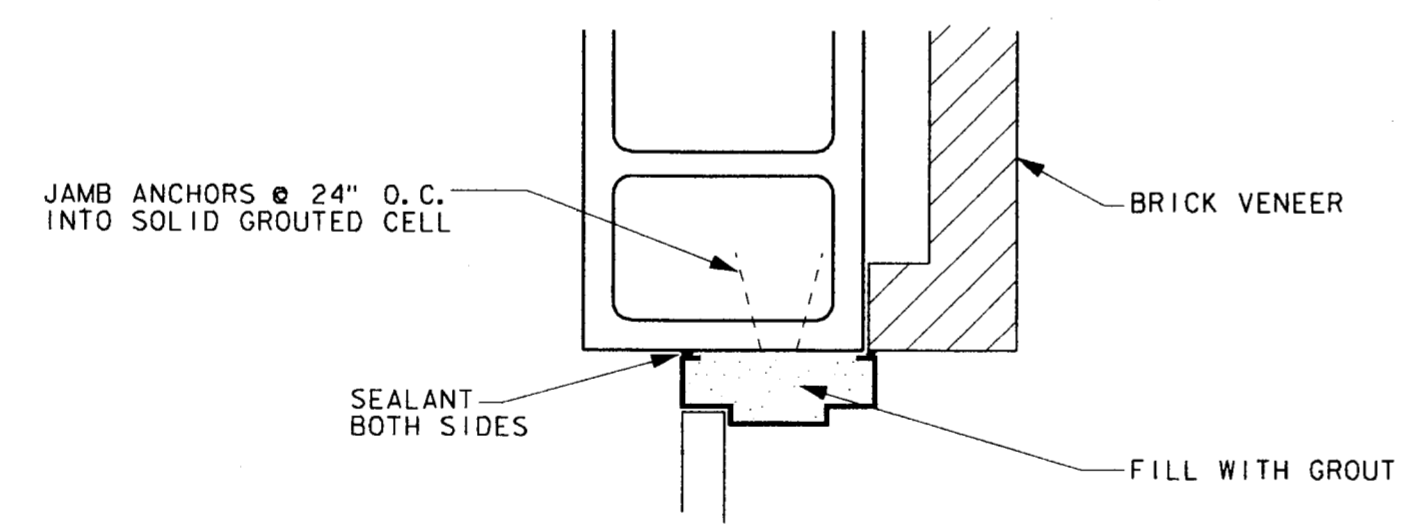
LOUVER SILL (C) 43
1/2" = 1'-0"



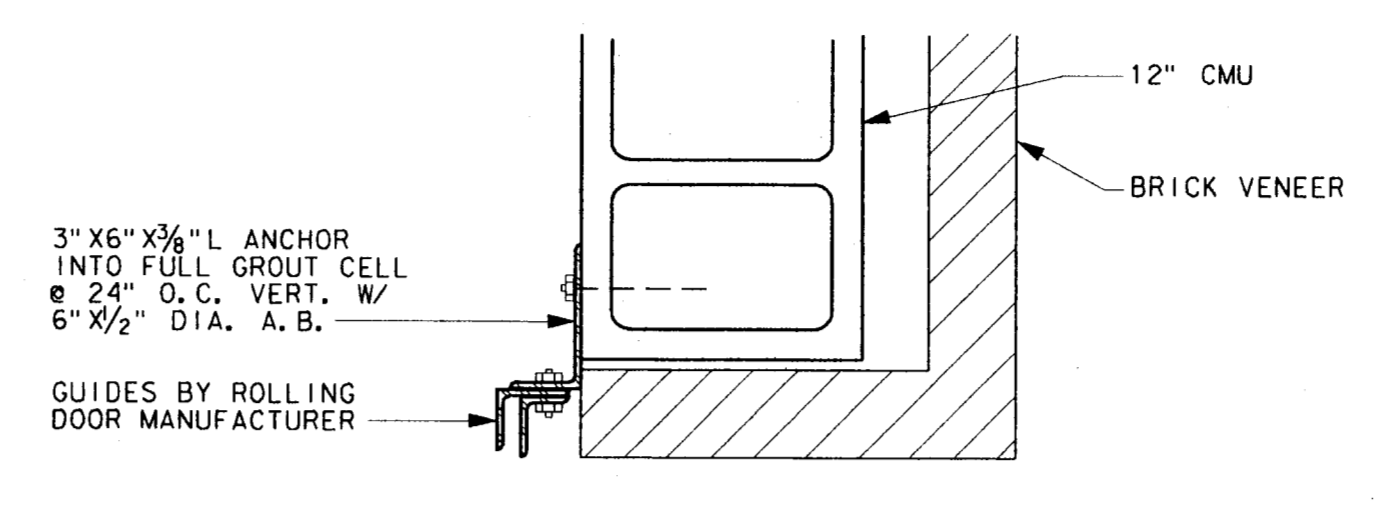
SECTION (D) 43
3" = 1'-0"



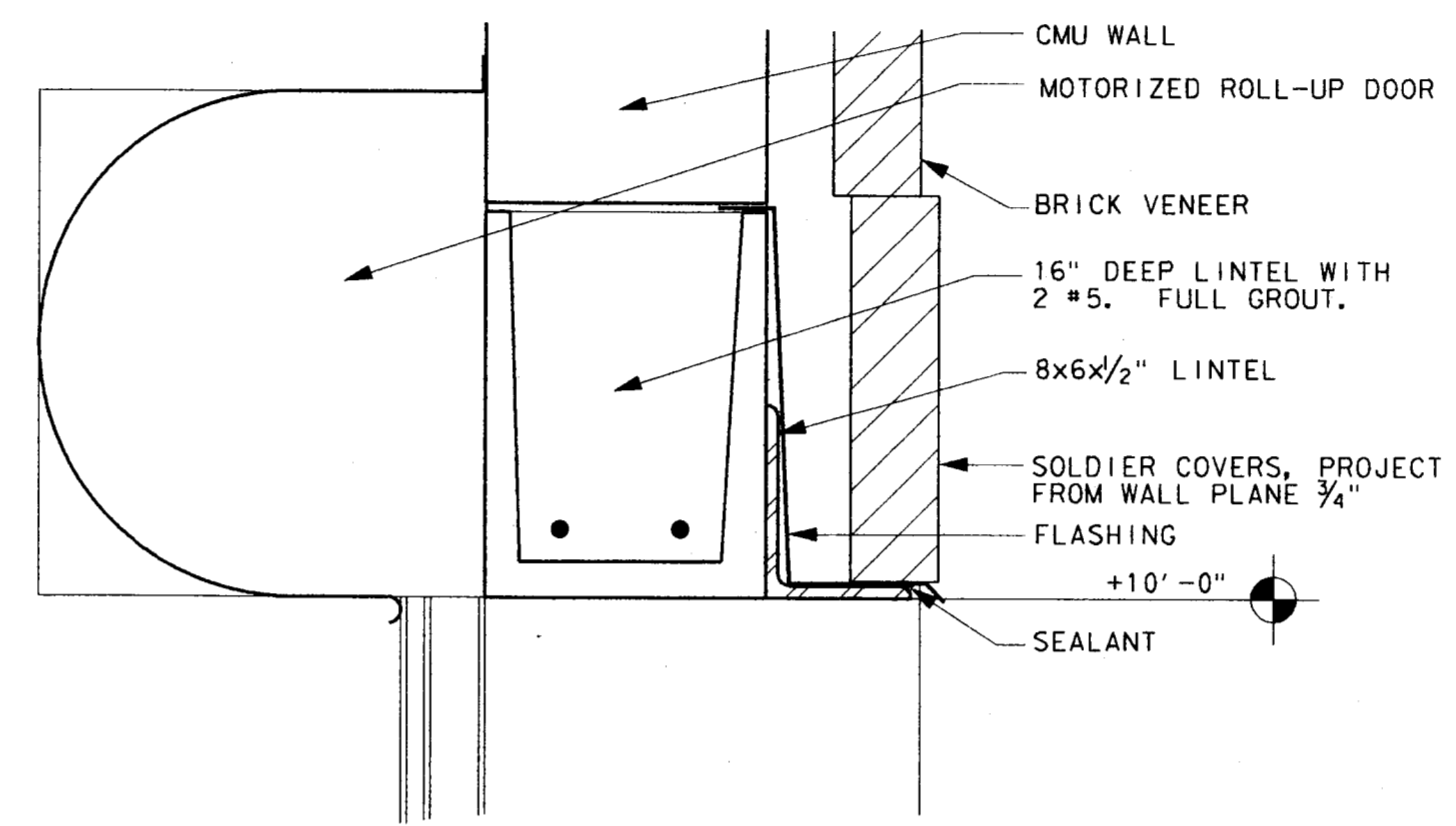
TYPICAL EQUIPMENT CURB (E) 43
3" = 1'-0"



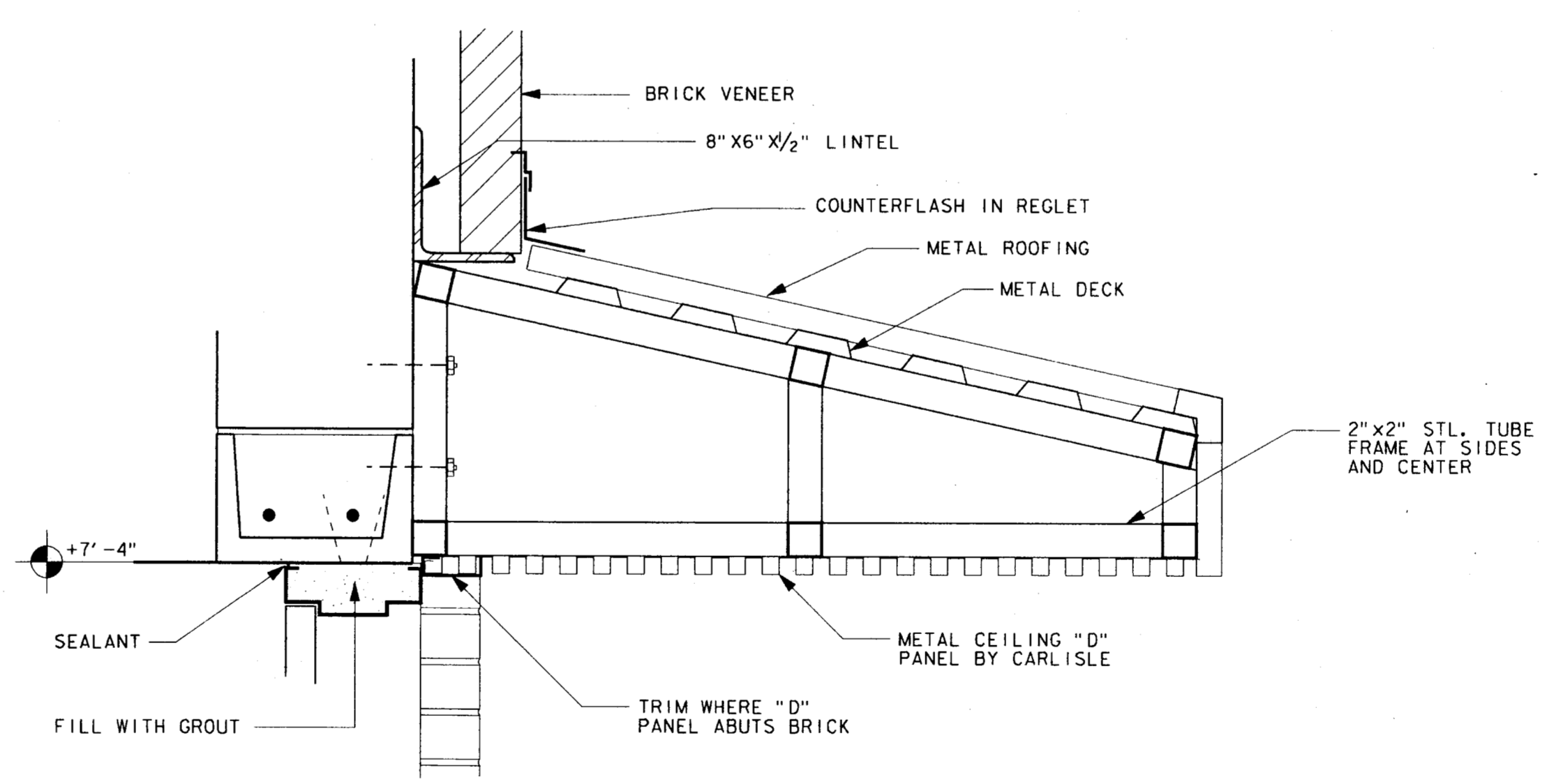
HM DOOR JAMB (F) 43
1/2" = 1'-0"



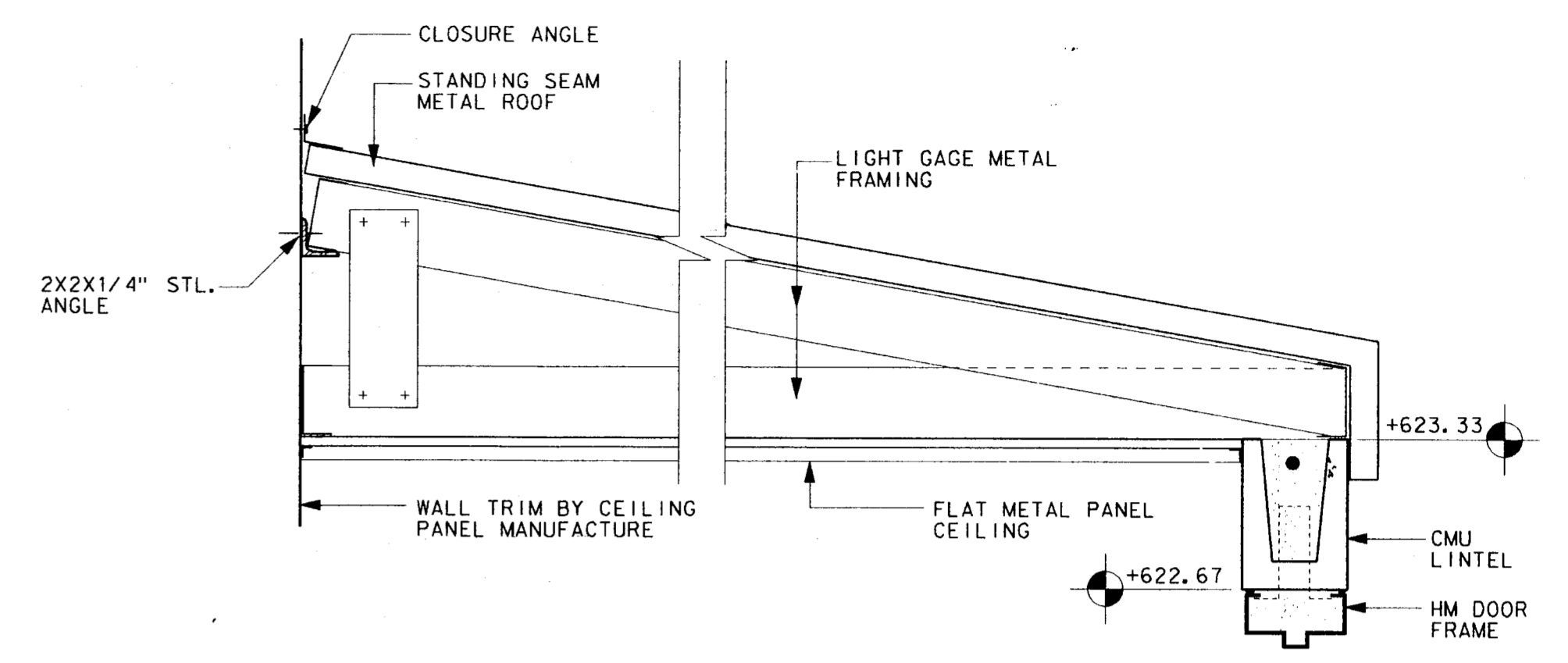
ROLL-UP DOOR JAMB (G) 43
1/2" = 1'-0"



ROLL-UP DOOR HEAD (H) 43
1/2" = 1'-0"



HM DOOR HEAD (J) 43
1/2" = 1'-0"

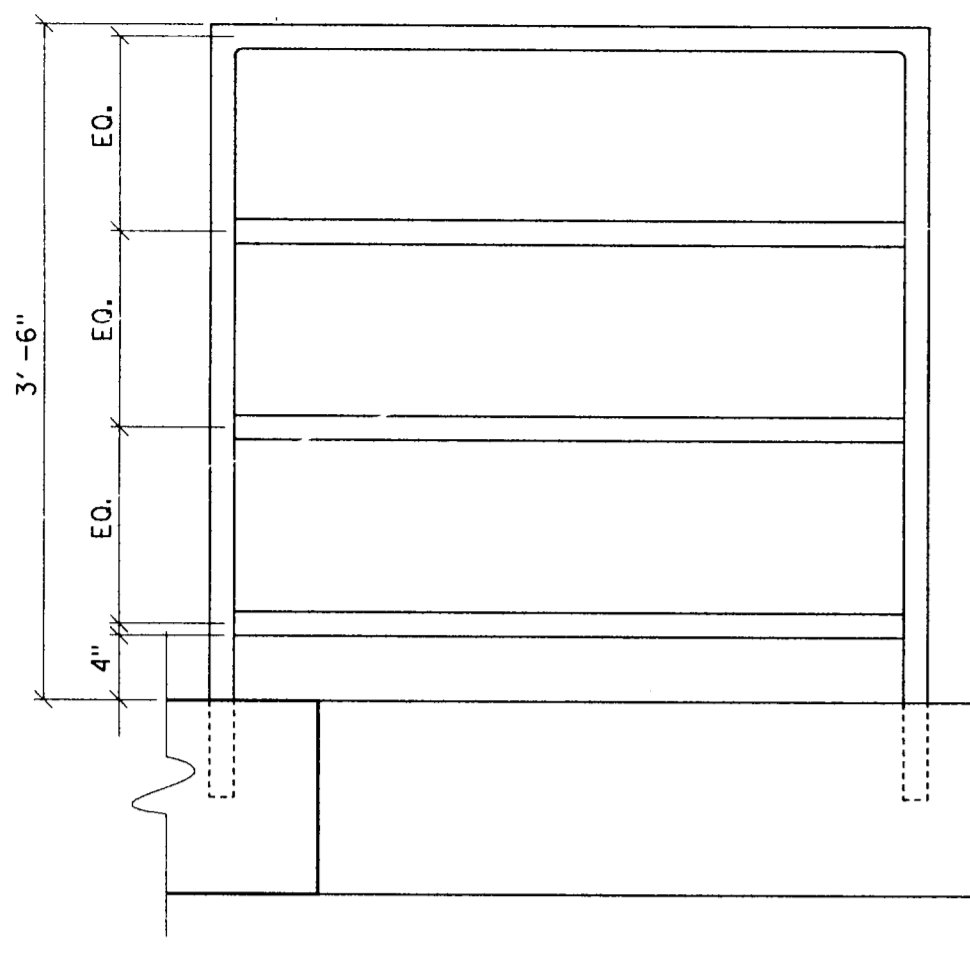


ROOF SECTION (K) 43
1/2" = 1'-0"

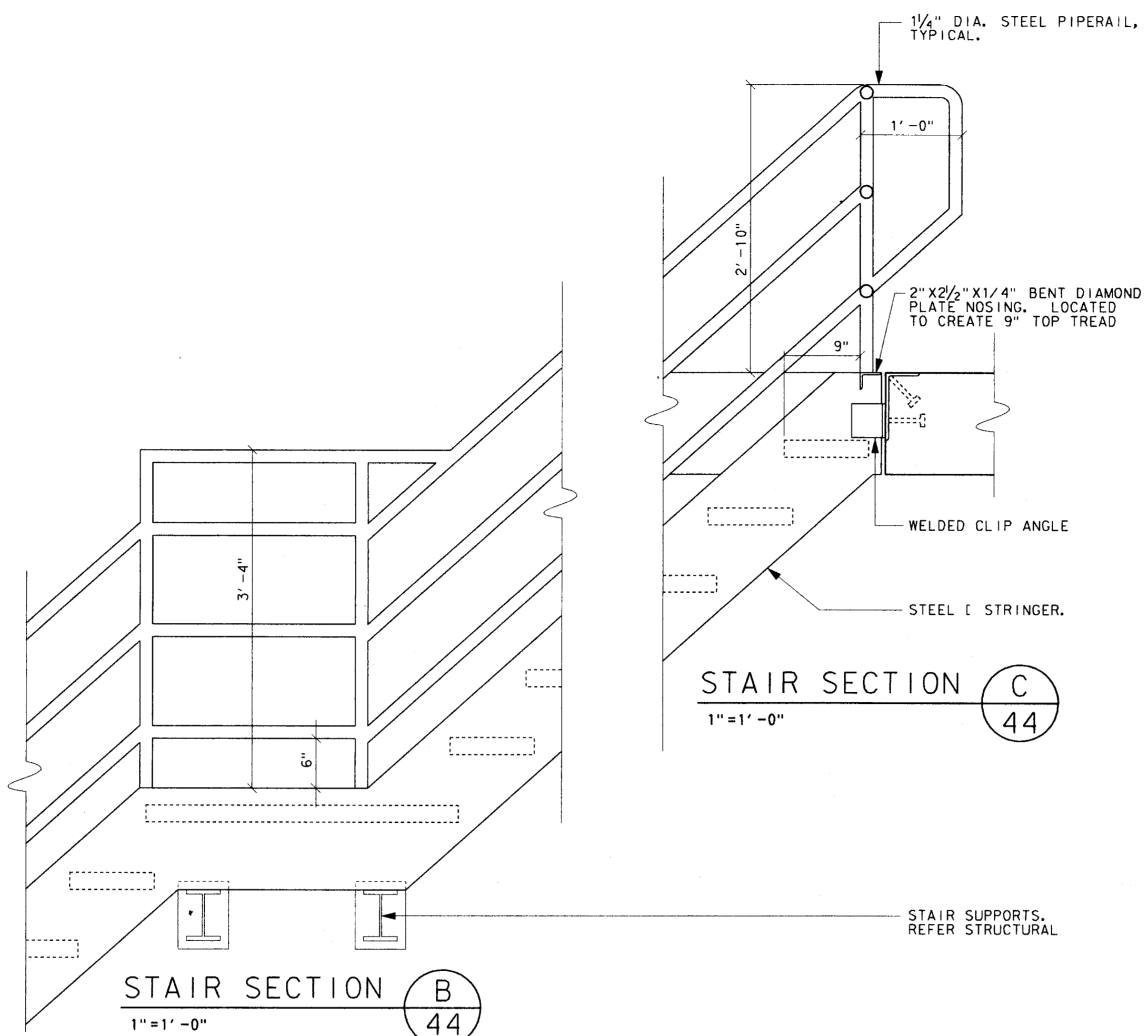
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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER			
PHASE II			
LIFT STATION -			
ARCHITECTURAL DETAILS - SHEET 1			
Carter Burgess			
<small>Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7360 ELMSBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit#	Scale#	Date	04-05-96
Designed	R. WRIGHT	Checked	R. WRIGHT
Drawn	R. WRIGHT	Approved	J. Lindner
Job No.	93327601D	Sheet	43 of 63



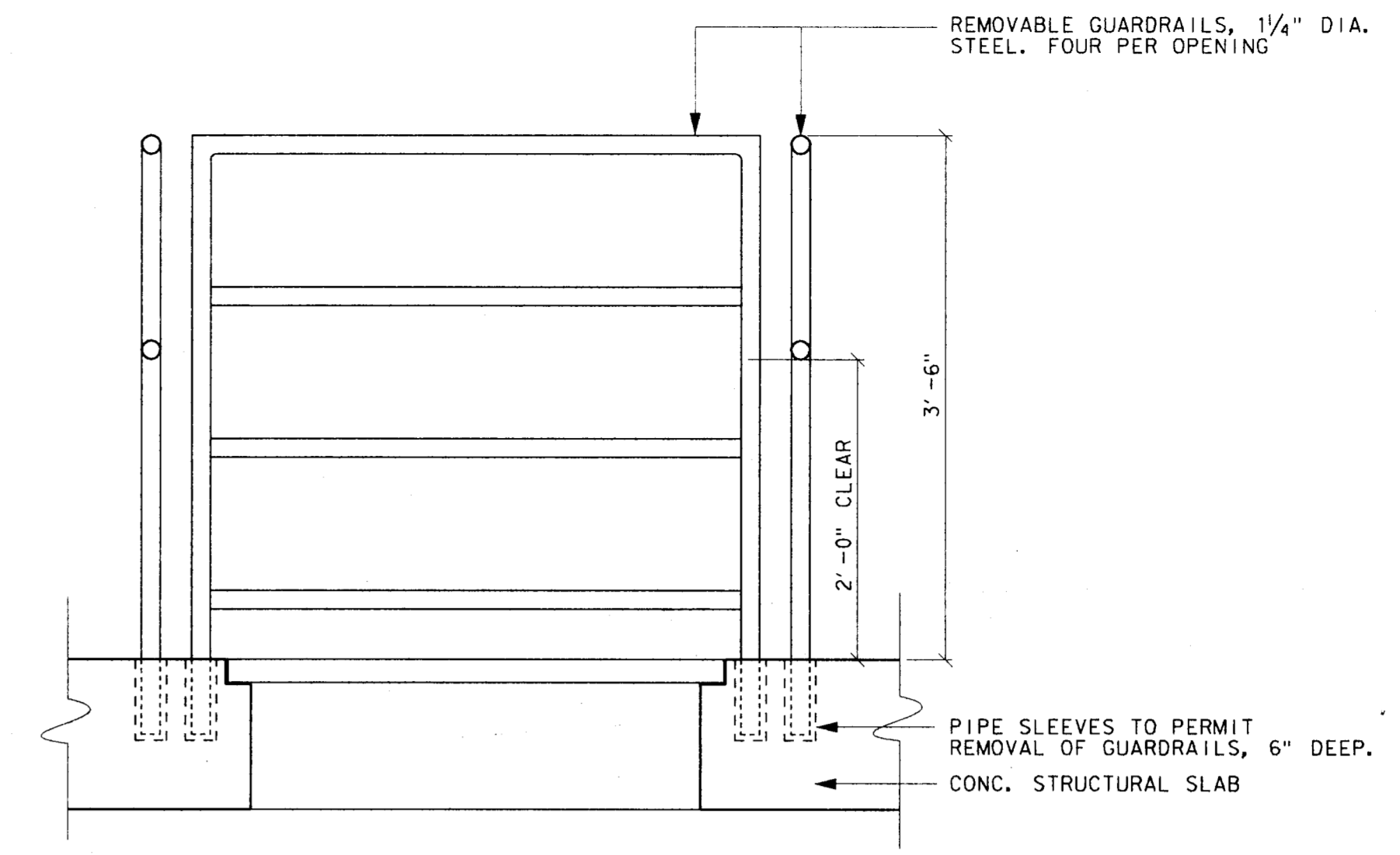
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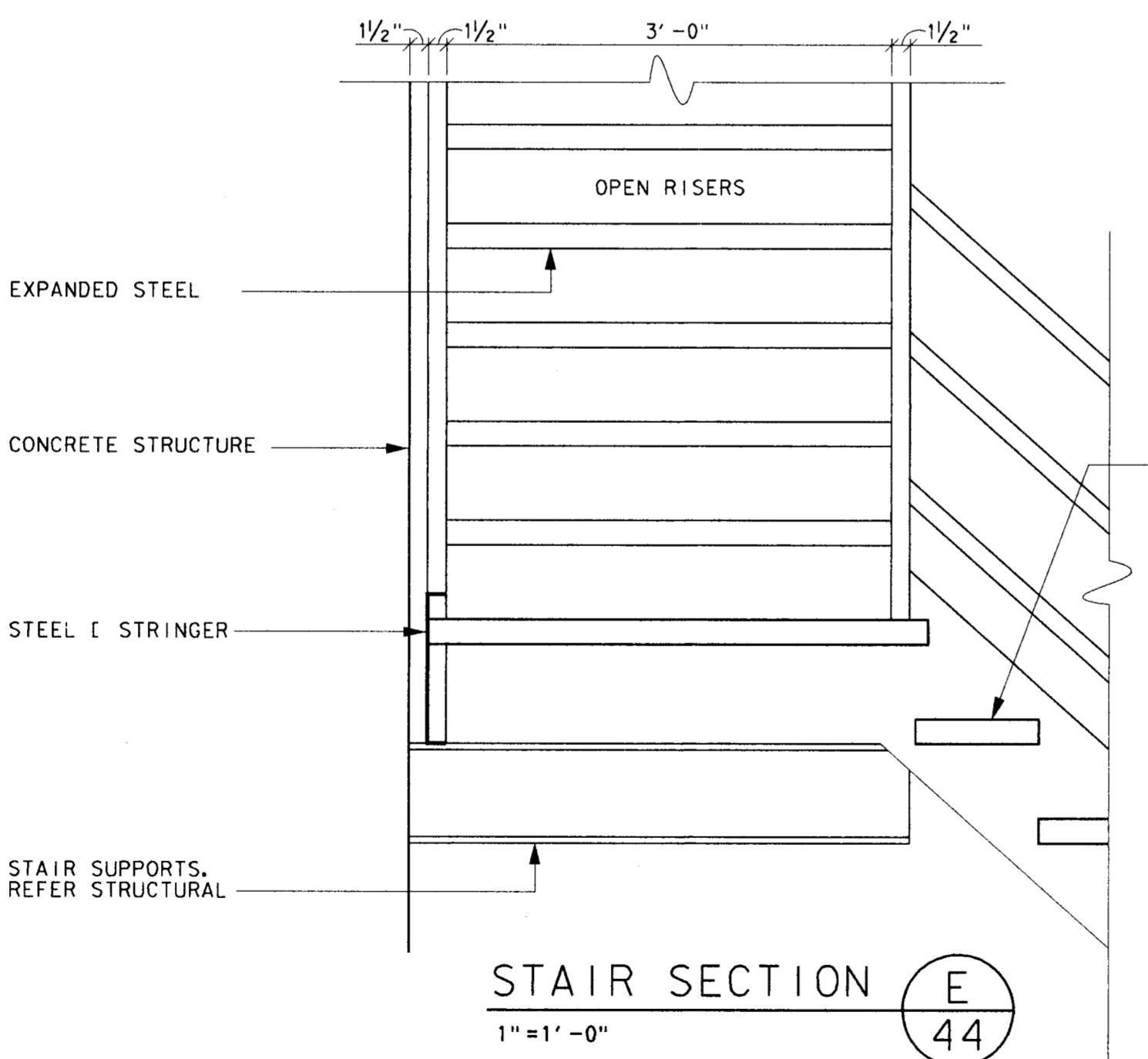
GUARDRAIL AT STAIR OPENING
 1"=1'-0" (A) 44



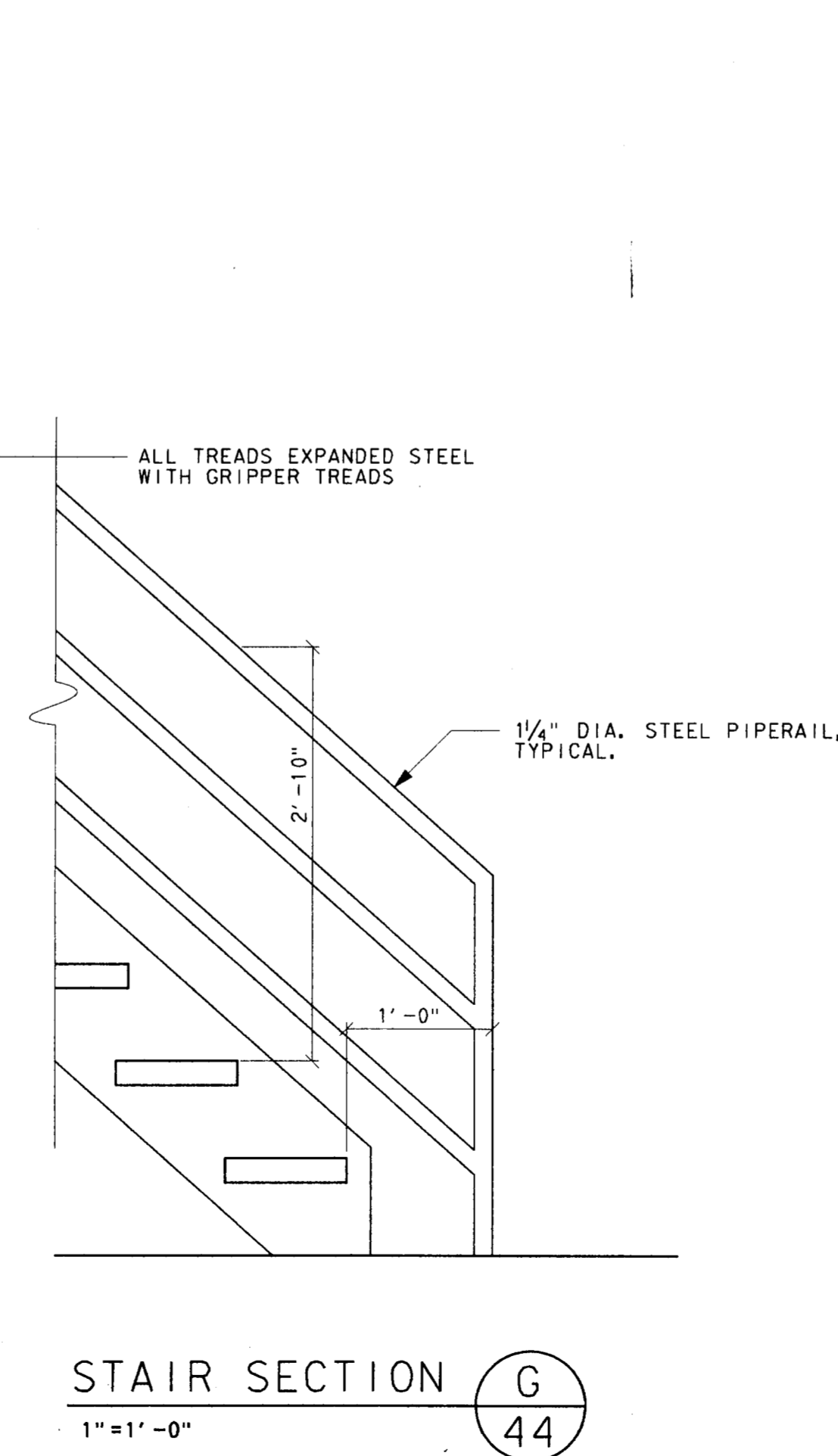
STAIR SECTION C
 1"=1'-0" (C) 44



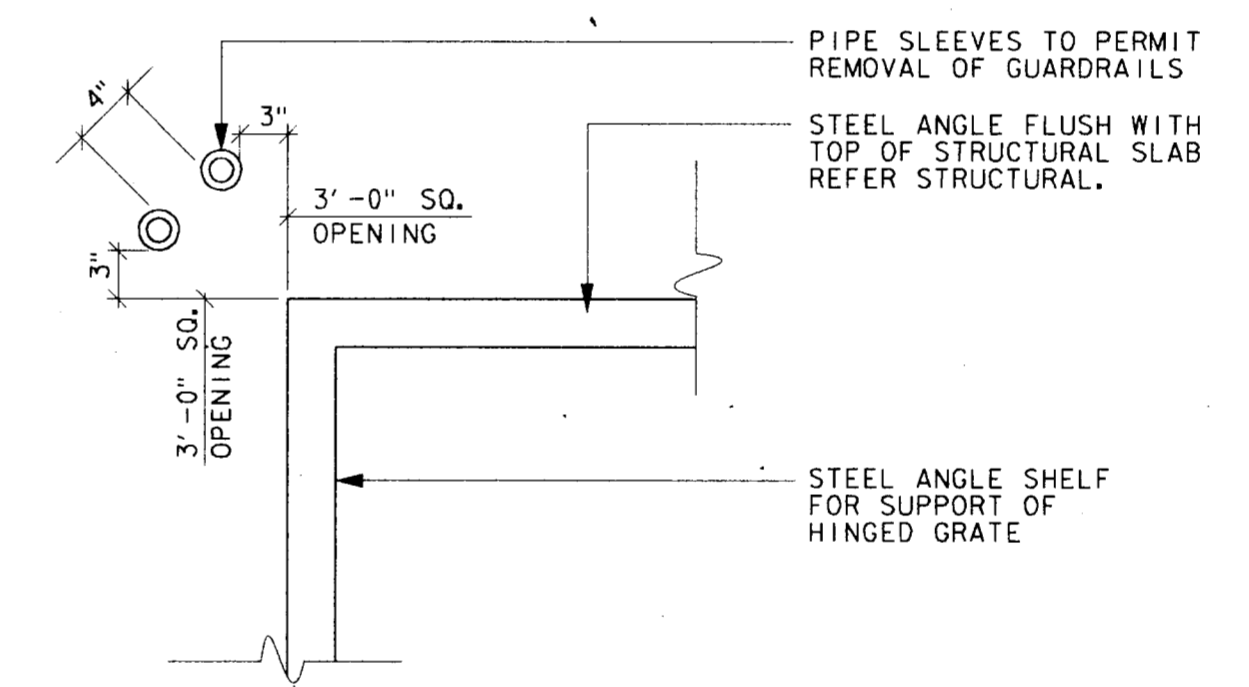
GUARDRAIL AT ACCESS HOLE
 1"=1'-0" (D) 44



STAIR SECTION E
 1"=1'-0" (E) 44



STAIR SECTION G
 1"=1'-0" (G) 44



PLAN DETAIL AT ACCESS HOLE
 1"=1'-0" (F) 44

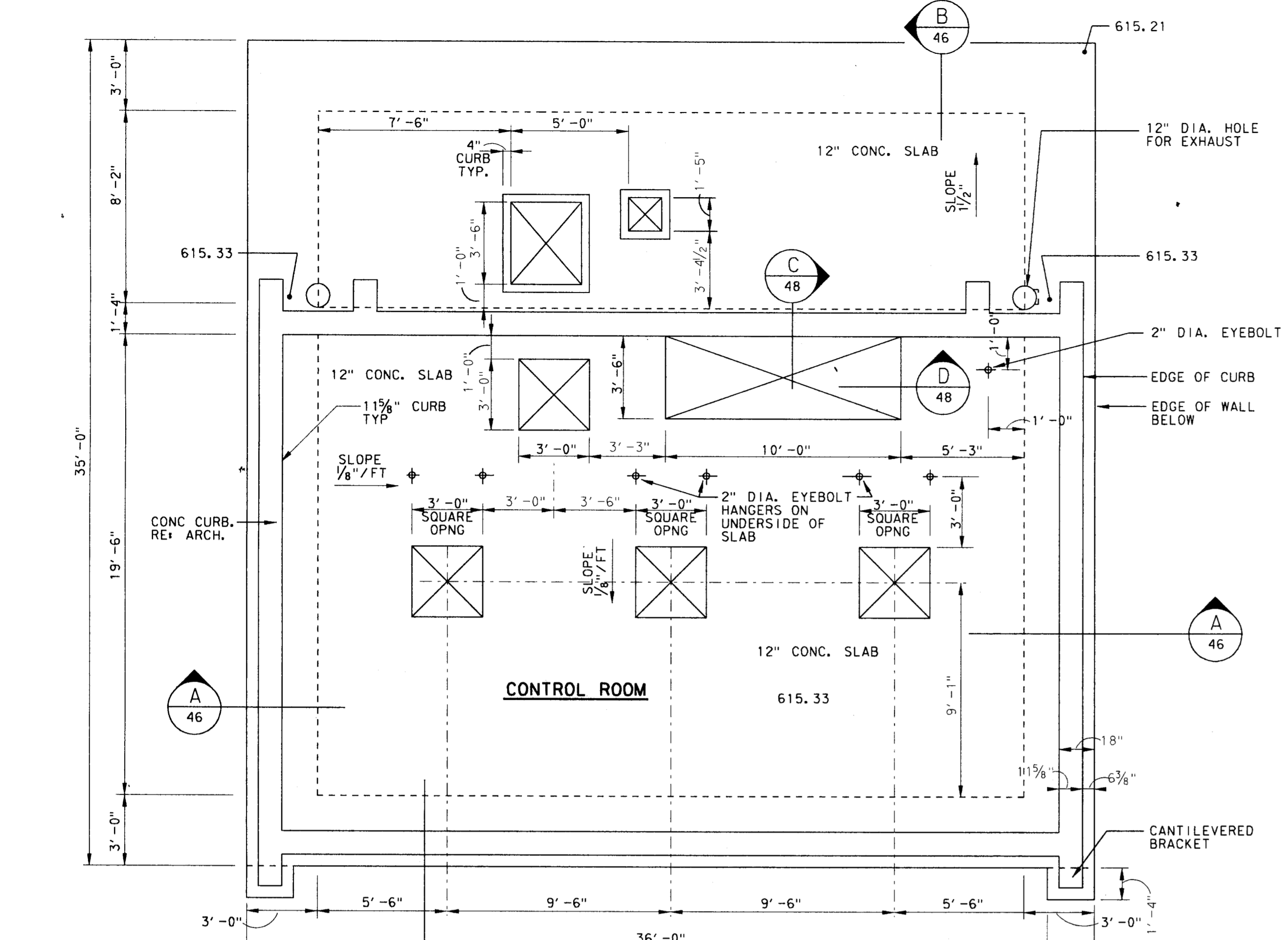
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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LIFT STATION -
 ARCHITECTURAL DETAILS - SHEET 2

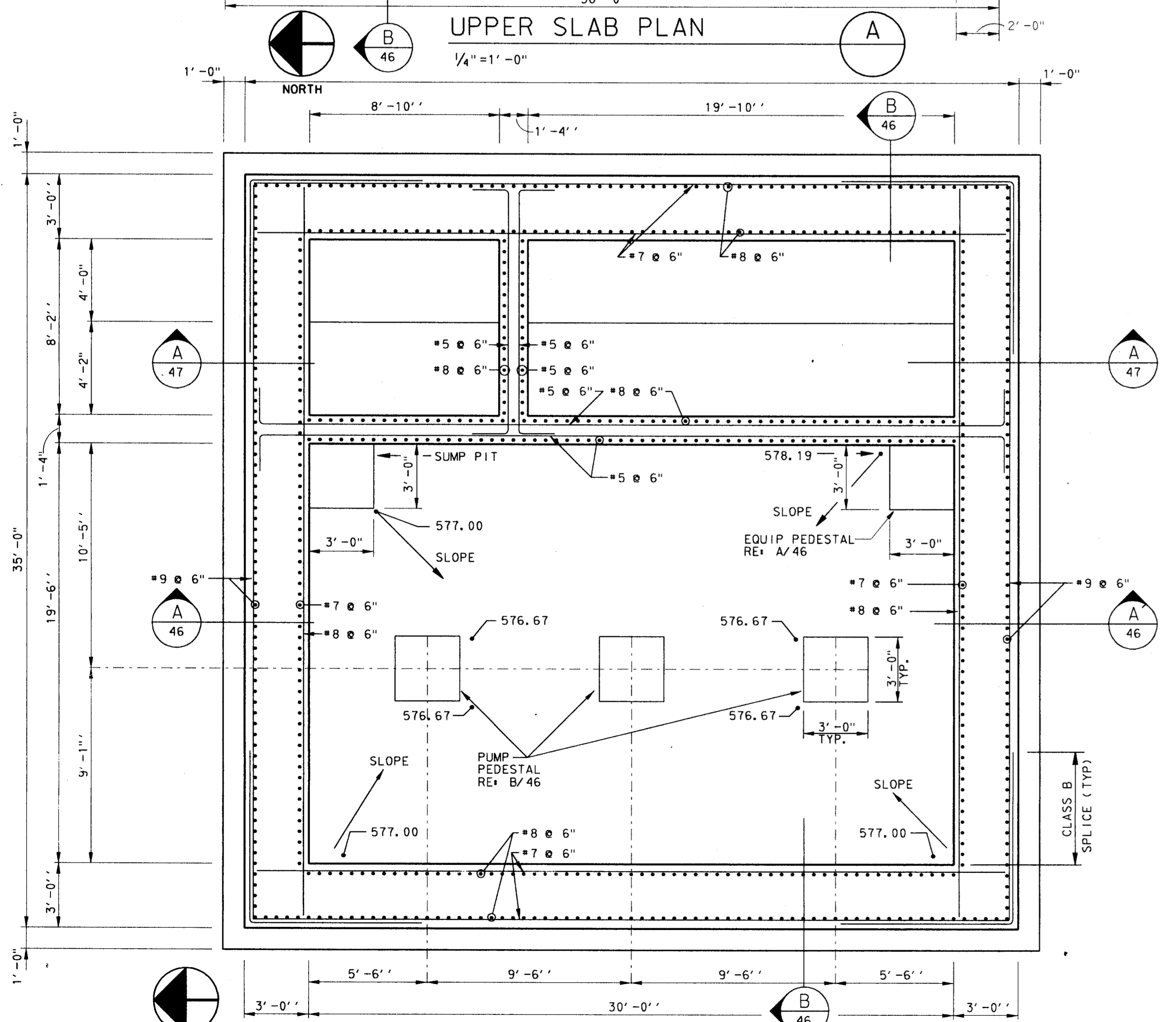
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Designed	R. WRIGHT	Checked	R. WRIGHT
Drawn	R. WRIGHT	Approved	J. Lindner
Job No.	93327601D	Sheet	44 of 63



UPPER SLAB PLAN



LOWER SLAB PLAN

GENERAL STRUCTURAL NOTES

- BUILDING CODES AND DESIGN CODES:
 A. UNIFORM BUILDING CODE, LATEST EDITION
 B. AMERICAN CONCRETE INSTITUTE, ACI 318 BUILDING CODE, 1989
 C. ACI 350 COMMITTEE REPORT ON "CONCRETE SANITARY ENGINEERING STRUCTURES"
 D. AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN (ASD), NINTH EDITION
- THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REQUIREMENTS OF OSHA AND OTHER GOVERNING BODIES HAVING JURISDICTION AT THE SITE.
- LOCATE, PROTECT AND COORDINATE NECESSARY DISCONTINUOUS SERVICE OF POWER AND OTHER POTENTIALLY HAZARDOUS UTILITIES WITH THE OWNER PRIOR TO BEGINNING WORK.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO BEGINNING WORK OR FABRICATING MATERIALS. NOTIFY OWNER OF ANY INCONSISTENCIES WITH THESE DRAWINGS.
- COORDINATE WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS AND VERIFY THE LOCATION OF ALL CHASES, INSERTS, OPENINGS, SLEEVES, DEPRESSIONS, PADS, WALL OPENINGS, AND OTHER PROJECT REQUIREMENTS.
- DESIGN LOADS:
 ROOF LIVE LOAD: 20 PSF
 GROUND LEVEL FLOOR LIVE LOAD: 250 PSF UNIFORM
 BOTTOM MAT: HS20-44 250 PSF
- STEEL JOIST DESIGN LOADS:
 DEAD LOAD: 100 PLF
 LIVE LOAD: 120 PLF
 POINT LOAD (ANY LOCATION): 2000 LBS.
 NET UPLIFT: 15 PSF
- WIND LOADS:
 WIND VELOCITY: 70 MPH, EXPOSURE C, I=1.0

FOUNDATION NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION SLOPE STABILITY. THE SELECTION OF THE EQUIPMENT AND THE METHOD OF SLOPE STABILITY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO INSURE ADJACENT FOUNDATIONS ARE NOT UNDERMINED DURING EXCAVATION AND CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATION DEWATERING. THE SELECTION OF THE EQUIPMENT AND THE METHOD OF DEWATERING SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- FOOTING EXCAVATIONS WHICH WILL REMAIN OPEN FOR MORE THAN TWENTY FOUR (24) HOURS SHALL BE PROTECTED BY A SEAL SLAB OF FOOTING STRENGTH CONCRETE.
- SOILS INFORMATION IS BASED ON INFORMATION CONTAINED IN "GEOTECHNICAL REPORT FOR PROPOSED LIFT STATION, MIDWAY/BELTLINE SANITARY SEWER, ADDISON, TEXAS" DATED JUNE 30, 1995, BY HUNTINGTON/SWL, REPORT NO. 95-189-2. THE INFORMATION IS AVAILABLE UPON REQUEST.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL SITE AND SUBGRADE INFORMATION.
- MAT FOUNDATION DESIGN IS BASED ON BEARING IN GRAY LIMESTONE WITH AN ALLOWABLE BEARING CAPACITY OF 30,000 PSF.
- THE OWNER'S TESTING AGENCY SHALL OBSERVE FOUNDATION PLACEMENT TO VERIFY WORK IS BEING DONE IN ACCORDANCE WITH THESE DRAWINGS.

CONCRETE NOTES

- ALL CAST-IN-PLACE CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF THE FOLLOWING:
 SLABS, FOOTINGS AND BEAMS: 4000 PSI
 FILL FOR MASONRY CORES AND BOND BEAMS: 3000 PSI
- PROVIDE THE SURFACE FINISH INDICATED FOR THE FOLLOWING AREAS:
 SLABS: TROWEL FINISH
 EXPOSED FORMED CONCRETE: SMOOTH RUBBED FINISH
 EXTERIOR RAMP: BROOM FINISH
- REINFORCING SHALL BE NEW BILLET STEEL CONFORMING TO THE STANDARDS OF ASTM A615, GRADE 60.
- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A185. PROVIDE FLAT SHEETS ONLY.
- ALL ANCHOR BOLTS SHALL CONFORM TO THE STANDARDS OF ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
- ALL DETAILING, FABRICATION, AND INSTALLATION OF REINFORCING SHALL BE IN ACCORDANCE WITH ACI 301, 315R, 318 AND DETAILING MANUAL SP66.
- CONSTRUCTION AND SAW JOINTS SHALL CONFORM TO PLANS AND DETAILS. HORIZONTAL CONSTRUCTION JOINTS WILL NOT BE ALLOWED UNLESS SPECIFICALLY NOTED OR APPROVED.
- APPROVED DOWEL ASSEMBLY DEVICES SHALL BE USED TO SUPPORT DOWELS AT ALL SLAB CONSTRUCTION JOINTS.
- MAINTAIN THE FOLLOWING COVERAGE FOR REINFORCING STEEL UNLESS OTHERWISE NOTED:
 CONCRETE CAST AGAINST EARTH: 3"
 CONCRETE EXPOSED TO WEATHER OR EARTH: 2"
- CONCRETE NOT EXPOSED TO WEATHER:
 SLABS: 3/4"
 WALLS, BEAM STIRRUPS & PEDESTAL TIES: 1 1/2"
- ALL LAP SPLICES SHALL BE CLASS B, AND ALL HOOKS SHALL BE STANDARD 90 DEGREE HOOKS IN ACCORDANCE WITH ACI 318-89, UNLESS NOTED OTHERWISE. SPLICES SHALL BE STAGGERED UNLESS SPECIFICALLY NOTED.
- ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4 INCH UNLESS NOTED OTHERWISE.
- NO REINFORCEMENT SHALL BE WELDED OR BENT IN THE FIELD UNLESS SPECIFICALLY SHOWN.
- WHERE REQUIRED, DOWELS SHALL MATCH SIZE AND SPACING OF MAIN REINFORCING, UNLESS NOTED OTHERWISE.
- CONSTRUCTION JOINTS SHALL BE WIRE BRUSHED AND CLEANED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.
- CAREFULLY COORDINATE THE PLACEMENT OF ALL CAST-IN-PLACE EMBEDMENTS AND ANCHOR BOLTS. ANCHOR BOLTS SHALL BE SET WITH A TEMPLATE. ALL EMBEDDED ITEMS SHALL BE SECURELY ATTACHED TO FORMWORK OR REINFORCING.
- REFERENCE PLUMBING PLANS FOR ALL SUBSLAB PIPING, FLOOR DRAINS, AND SLAB PIPE PENETRATIONS.
- REFERENCE SPECIFICATIONS FOR CONCRETE TESTING REQUIREMENTS.

MASONRY NOTES

- ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE APPLICABLE STANDARDS AND SPECIFICATIONS OF THE NATIONAL CONCRETE MASONRY ASSOCIATION AND THE STRUCTURAL CLAY PRODUCTS INSTITUTE.
- HOLLOW LOAD BEARING CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, GRADE N, TYPE 1, LIGHT WEIGHT WITH A MINIMUM COMPRESSIVE STRENGTH (f'm) OF 1900 PSI ON THE NET SECTION.
- ALL MORTAR SHALL CONFORM TO ASTM C270, TYPE S. MINIMUM MASONRY STRENGTH (f'm) SHALL BE 1500 PSI.
- ALL GROUT SHALL CONFORM TO ASTM C476 AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- REINFORCING BARS FOR REINFORCED MASONRY SHALL CONFORM TO ASTM A615, GRADE 60.
- VERTICAL CELLS TO BE FILLED WITH GROUT SHALL BE ALIGNED TO PROVIDE A CONTINUOUS, UNOBSTRUCTED OPENING OF THE DIMENSIONS SHOWN ON THE PLANS.
- GROUT FOR FILLING REINFORCED OR NON-REINFORCED CELLS SHALL BE CONSOLIDATED IN PLACE BY VIBRATION OR OTHER METHODS WHICH ENSURE COMPLETE FILLING OF THE CELLS.
- HOLLOW UNITS SHOULD BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS EXCEPT THAT WEBS SHOULD ALSO BE BEDDED WHERE THEY ARE ADJACENT TO CELLS TO BE REINFORCED AND/OR FILLED WITH GROUT.
- ALL CUTTING AND FITTING OF MASONRY, INCLUDING THAT REQUIRED TO ACCOMMODATE THE WORK OF OTHER TRADES, SHALL BE DONE BY MASONRY MECHANICS WITH MASONRY SAWS.
- ANCHORS, WALL PLUGS, ACCESSORIES AND OTHER ITEMS TO BE BUILT IN SHALL BE INSTALLED AS THE MASONRY WORK PROGRESSES.
- ALL WALLS SHALL HAVE HORIZONTAL JOINT REINF. AT 16" CONSISTING OF TWO 3/8" DIA. RODS WITH 9 GA. CROSS TIES AT 16".
- THE OWNER'S TESTING AGENCY SHALL OBSERVE INSTALLATION OF MASONRY TO VERIFY WORK IS BEING DONE IN ACCORDANCE WITH THESE DRAWINGS.

STRUCTURAL STEEL NOTES

- ALL DETAILING, FABRICATION AND ERECTION SHALL CONFORM TO AISC SPECIFICATIONS AND CODES, ASD NINTH EDITION.
- ALL STRUCTURAL STEEL SHALL BE OF THE FOLLOWING ASTM DESIGNATIONS UNLESS NOTED OTHERWISE AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
 A. ANGLES AND PLATES: A36

STEEL JOIST NOTES

- STEEL JOISTS SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH THE SPECIFICATIONS OF THE STEEL JOIST INSTITUTE (SJI), LATEST EDITION, SUPPLEMENTED BY THE INFORMATION INDICATED ON THE STRUCTURAL DRAWINGS.
- JOIST DEPTH SHOWN ON THE STRUCTURAL DRAWINGS ARE DEPTHS AT MID SPAN.
- ALL STEEL JOISTS SHALL BE OPEN WEB UNDERSLUNG, TOP CHORD DOUBLE SLOPED.
- JOISTS SHALL BEAR 2 1/2" MINIMUM ON STRUCTURAL STEEL.
- ALL STEEL JOISTS SHALL HAVE WELDED CONNECTIONS UNLESS OTHERWISE NOTED. WELDS SHALL BE 3/8" x 2" LONG MINIMUM FILLETS EACH SIDE OF JOIST SEAT AND AS INDICATED ON DRAWINGS.
- STEEL JOIST FABRICATOR SHALL PROVIDE ALL ANGLE BRIDGING. BRIDGING SHALL BE COMPLETELY INSTALLED AND ANCHORED AND ALL JOISTS PERMANENTLY FASTENED INTO PLACE BEFORE CONSTRUCTION LOADS ARE PLACED ON THE JOISTS.
- ALL JOISTS SHALL HAVE 2 1/2" DEEP SEATS, UNLESS NOTED OTHERWISE.
- DESIGN AND FABRICATE STEEL JOIST WITH CAMBER IN ACCORDANCE WITH SJI.
- REMOVE LOOSE SCALE, RUST AND OTHER FOREIGN MATERIALS FROM FABRICATED JOISTS AND ACCESSORIES AND APPLY ONE COAT MANUFACTURER'S STANDARD GRAY PRIMER IN SHOP.
- SUBMIT SHOP DRAWINGS INCLUDING PIECE AND ERECTION DRAWINGS.

METAL DECK NOTES

- DESIGN, FABRICATION, AND ERECTION OF METAL DECK SHALL CONFORM TO THE STEEL DECK INSTITUTE'S "CODE OF RECOMMENDED STANDARD PRACTICE AND BASIC DESIGN SPECIFICATIONS," LATEST EDITION.
- STEEL ROOF DECK SHALL BE 1 1/2" 22 GAGE WIDE RIB, GALVANIZED.
- INFILL DECK SHALL BE FASTENED OVER SUPPORTS AND AT BUILDING PERIMETER WITH #12 TEK SCREWS IN A 36/77 PATTERN 6" O.C. SIDELAPS SHALL BE FASTENED WITH #10 TEK SCREWS AT 1'-0" ON CENTER.
- WELDING OF DECK IS NOT PERMITTED.
- SUBMIT SHOP DRAWINGS INDICATING TYPE, FINISH, OPENINGS, ACCESSORIES AND ATTACHMENT.
- REMOVE LOOSE SCALE, RUST AND OTHER FOREIGN MATERIALS FROM DECK AND APPLY EPOXY PAINT PER MANUFACTURER'S SPECIFICATIONS.

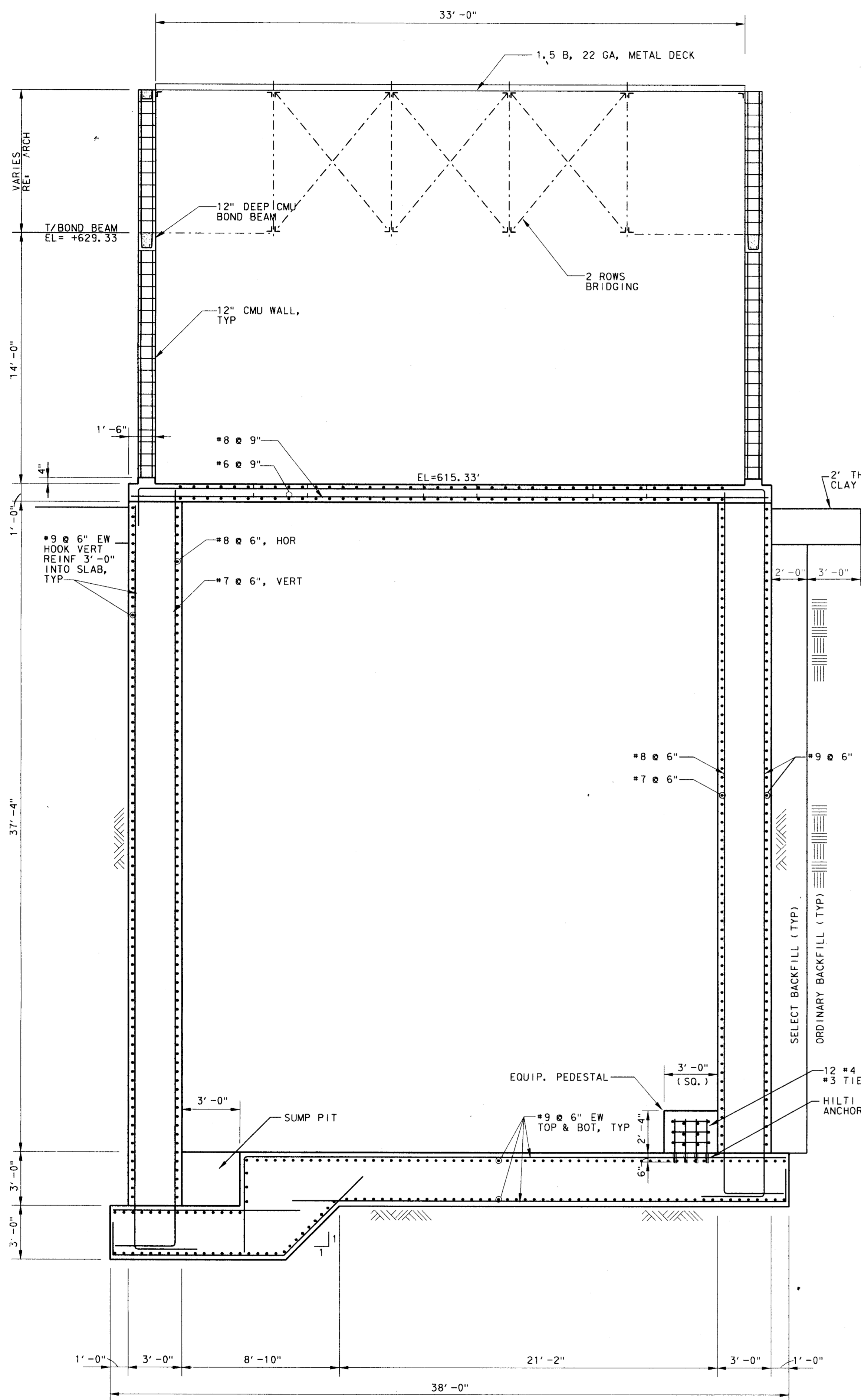
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TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II

LIFT STATION
 STRUCTURAL PLANS AND GENERAL NOTES

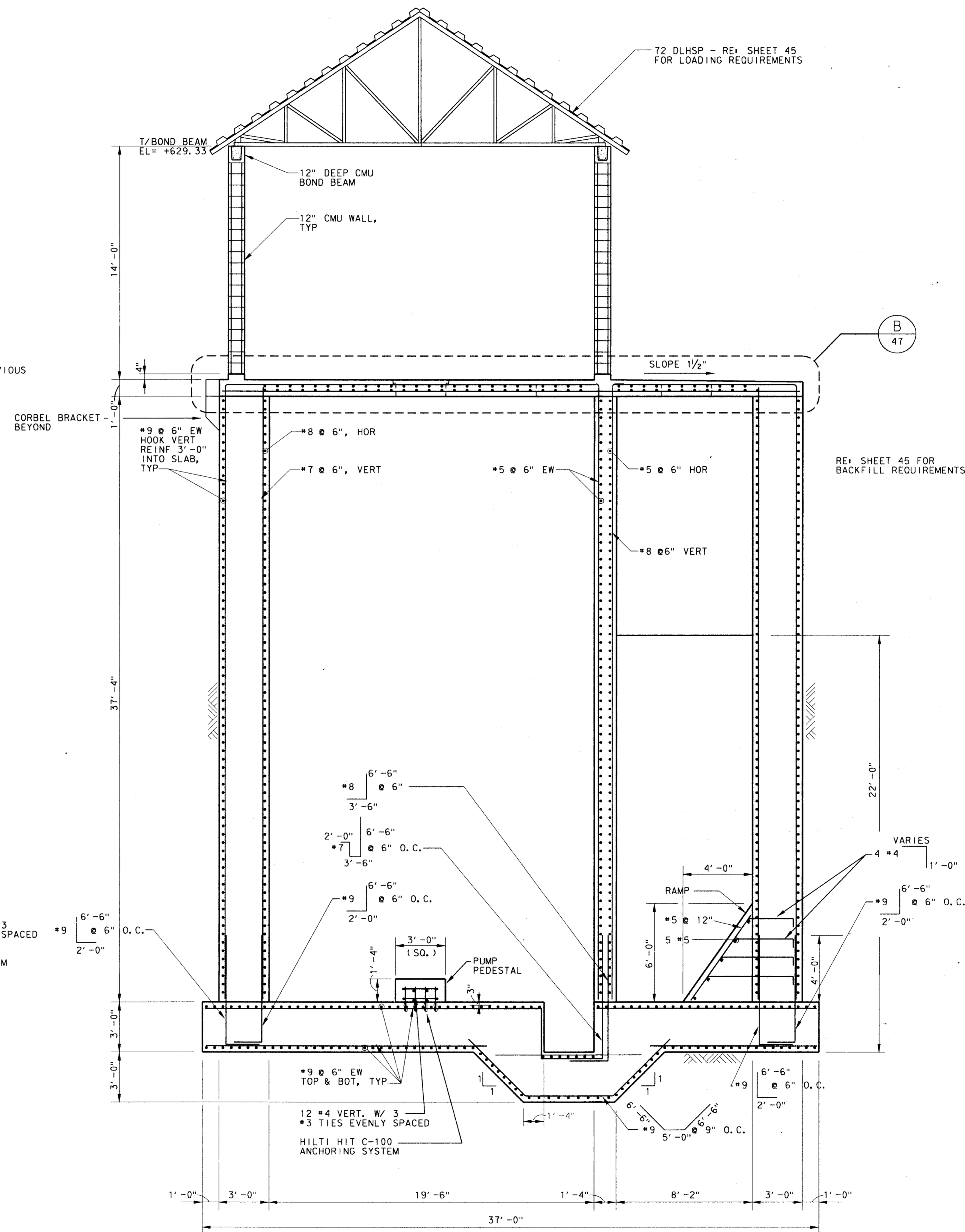


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Drawn	C. Sammons	Approved	J. Lindner
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SECTION A
1/4" = 1'-0"

NOTE: BRACE WALLS CONTINUOUSLY AT TOP DURING BACKFILLING OPERATION. BRACING TO REMAIN IN PLACE UNTIL TOP SLAB HAS REACHED 75% OF ITS DESIGN STRENGTH.



SECTION B
1/4" = 1'-0"

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TOWN OF ADDISON, TEXAS
MIDWAY/BELTLINE SANITARY SEWER
PHASE II
LIFT STATION
STRUCTURAL BUILDING SECTIONS

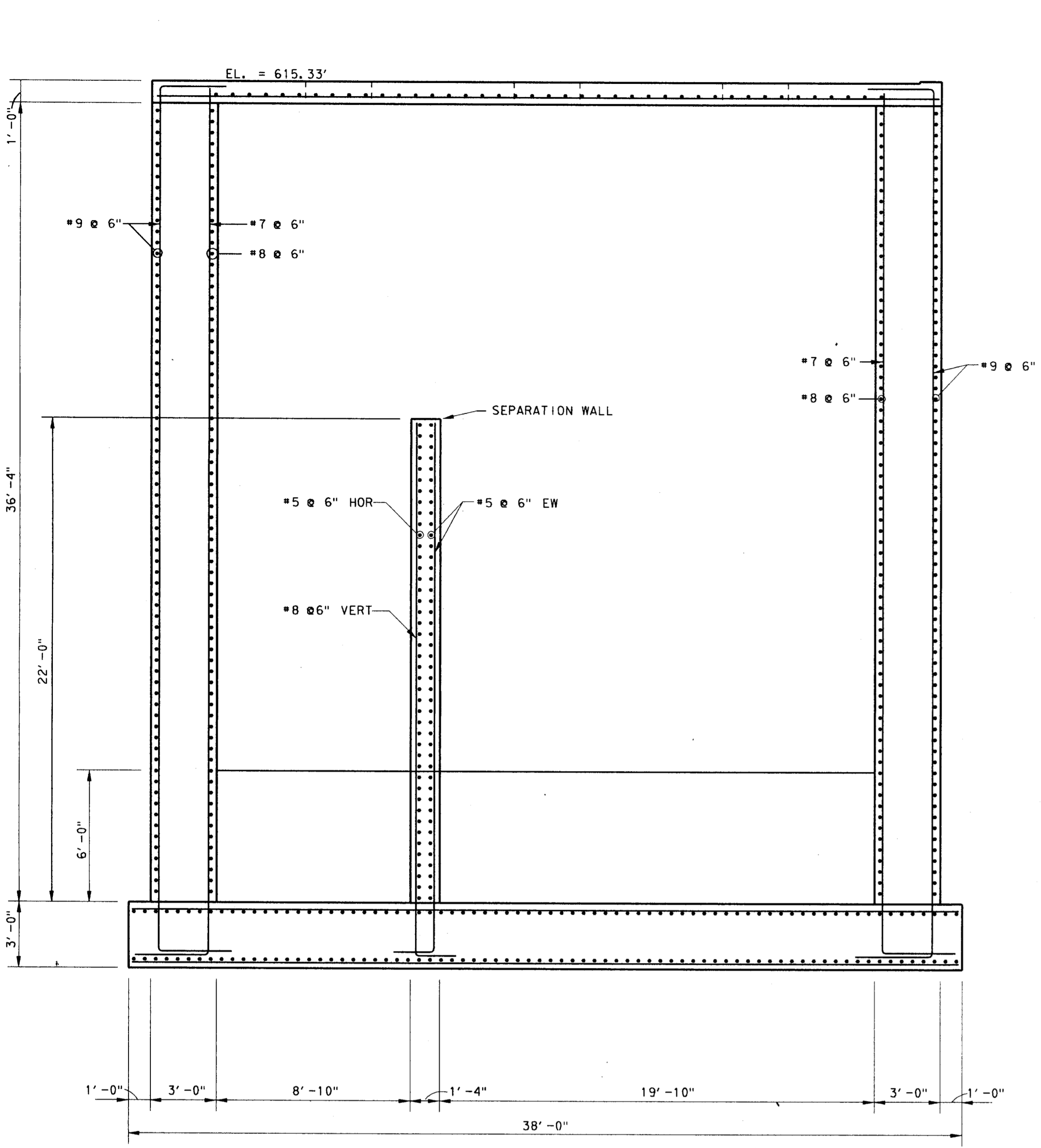


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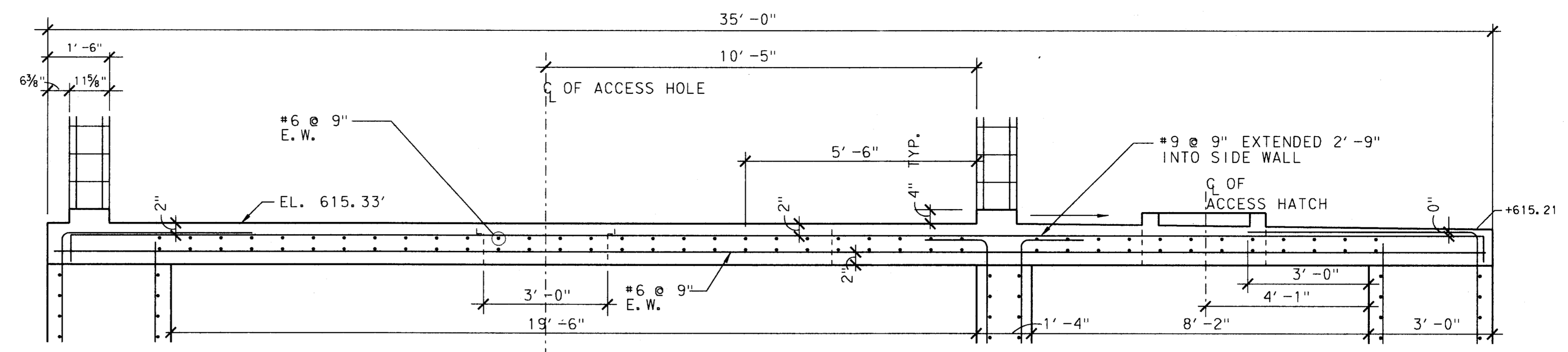
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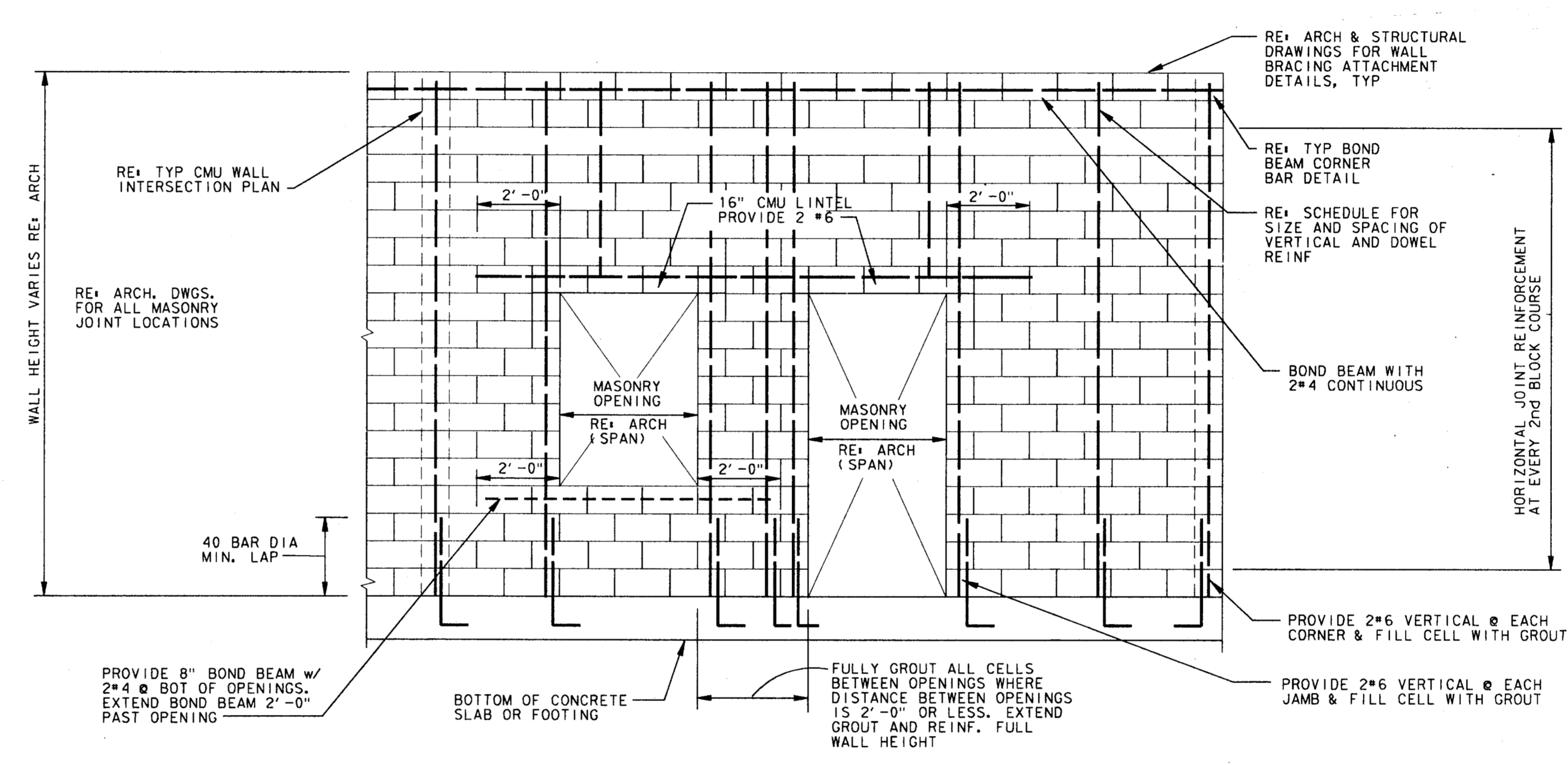
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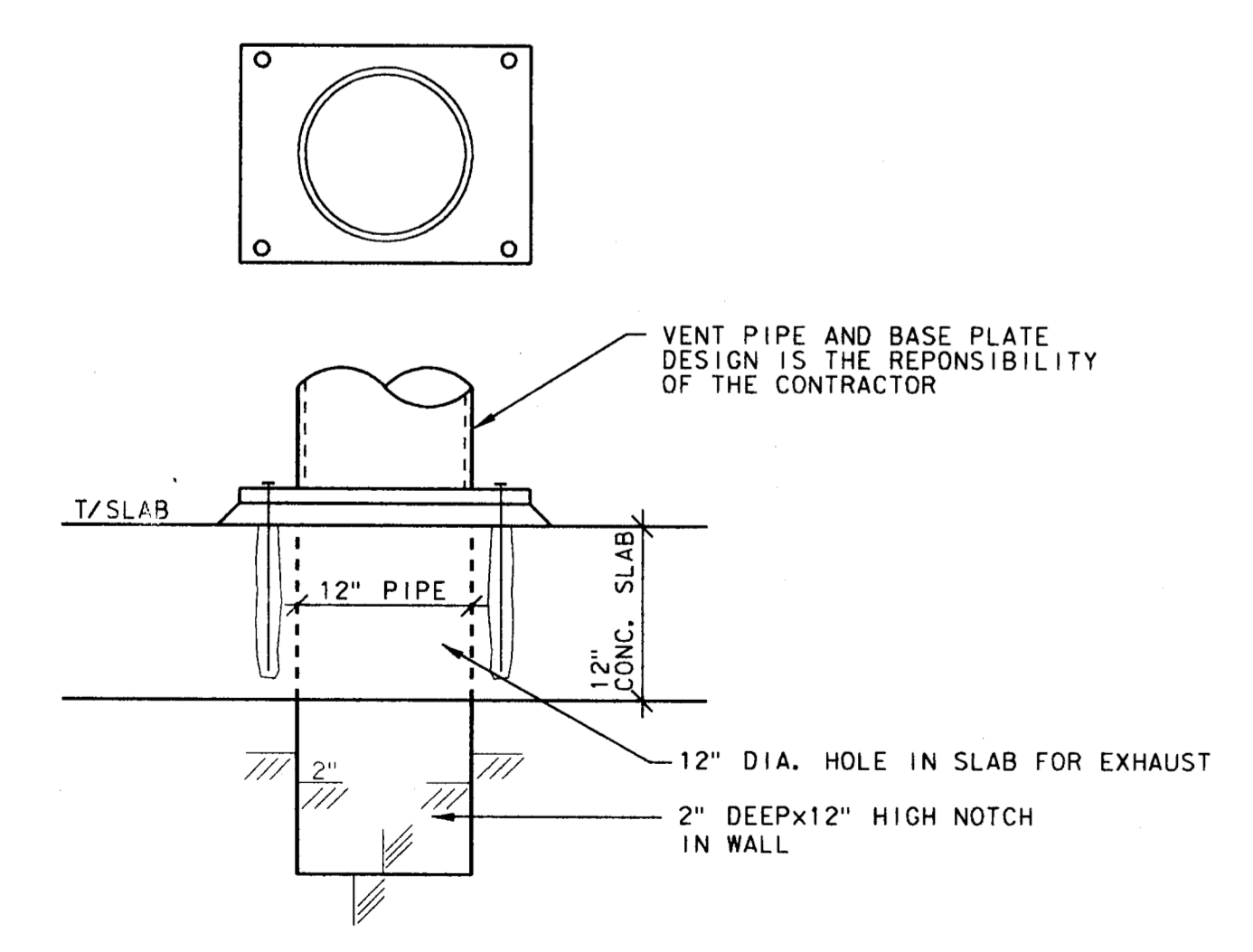
SECTION A
1/4" = 1'-0"



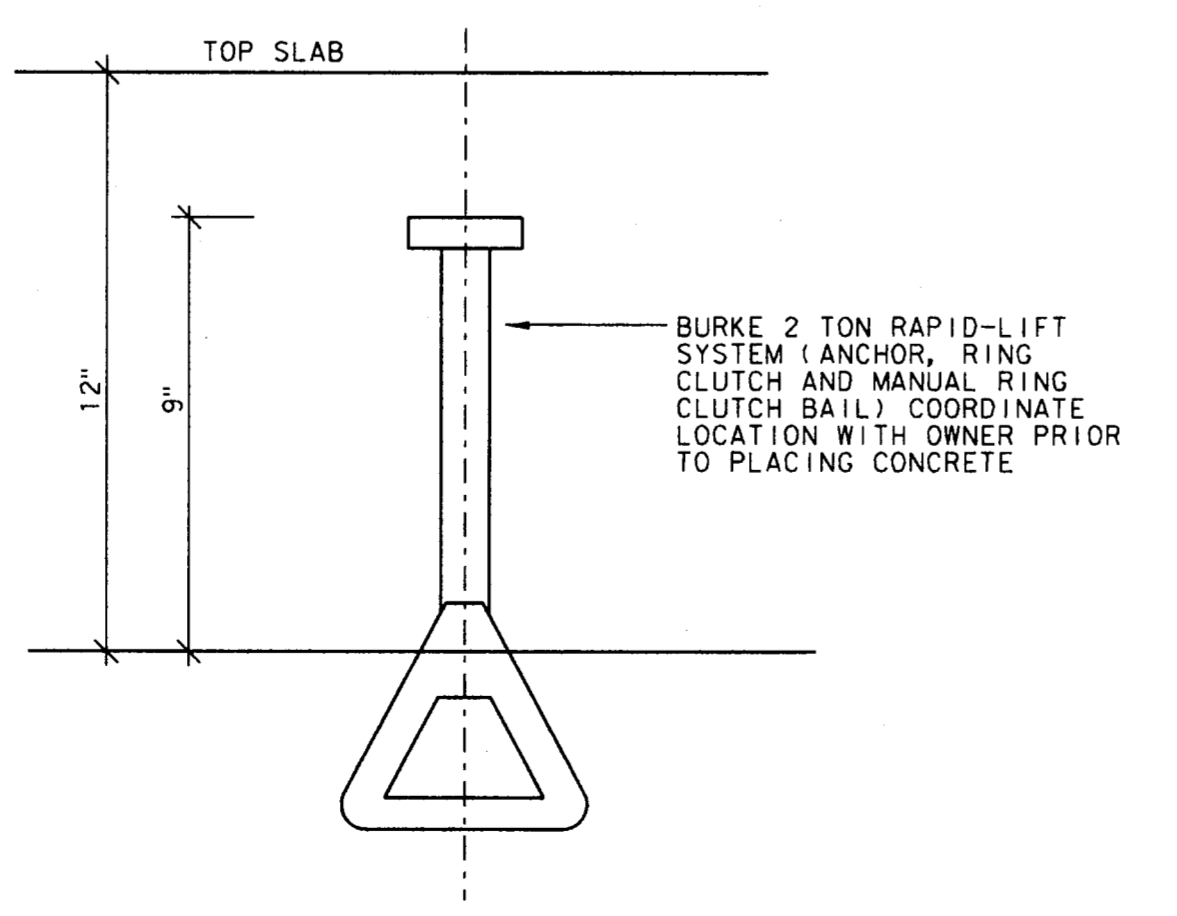
UPPER SLAB REINFORCEMENT B
1/2" = 1'-0"



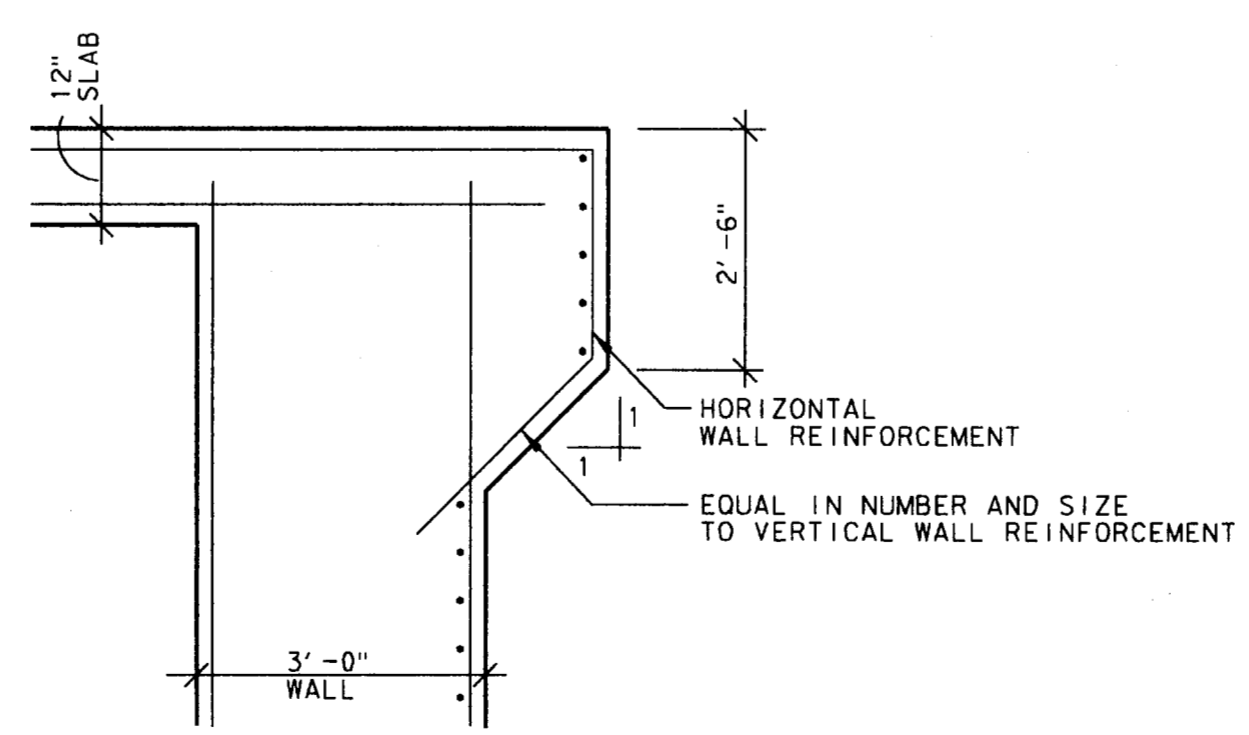
TYPICAL CMU WALL ELEVATION C
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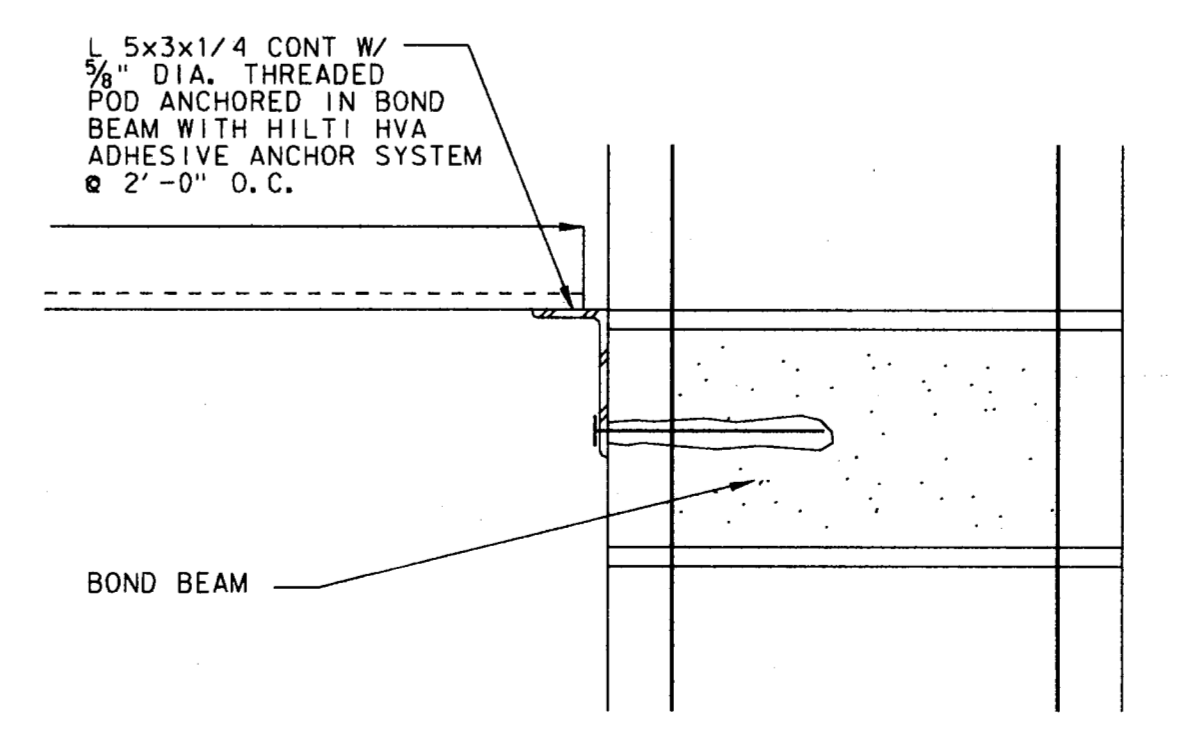
ANCHOR BOLT LAYOUT FOR VENT PIPE D
1" = 1'-0"



EYE BOLT HANGER E
3" = 1'-0"

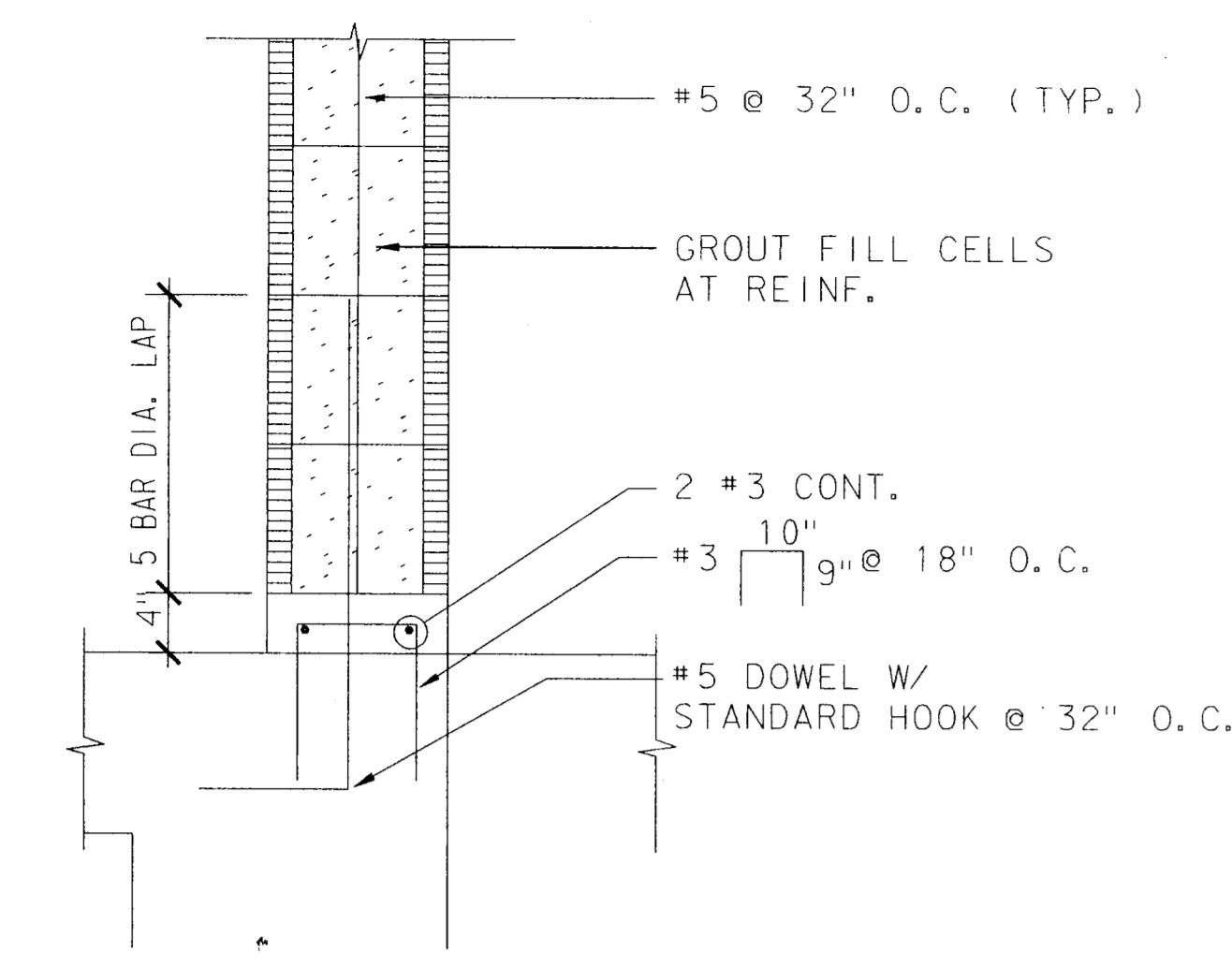


DETAIL AT SLAB BRACKET F
1/2" = 1'-0"

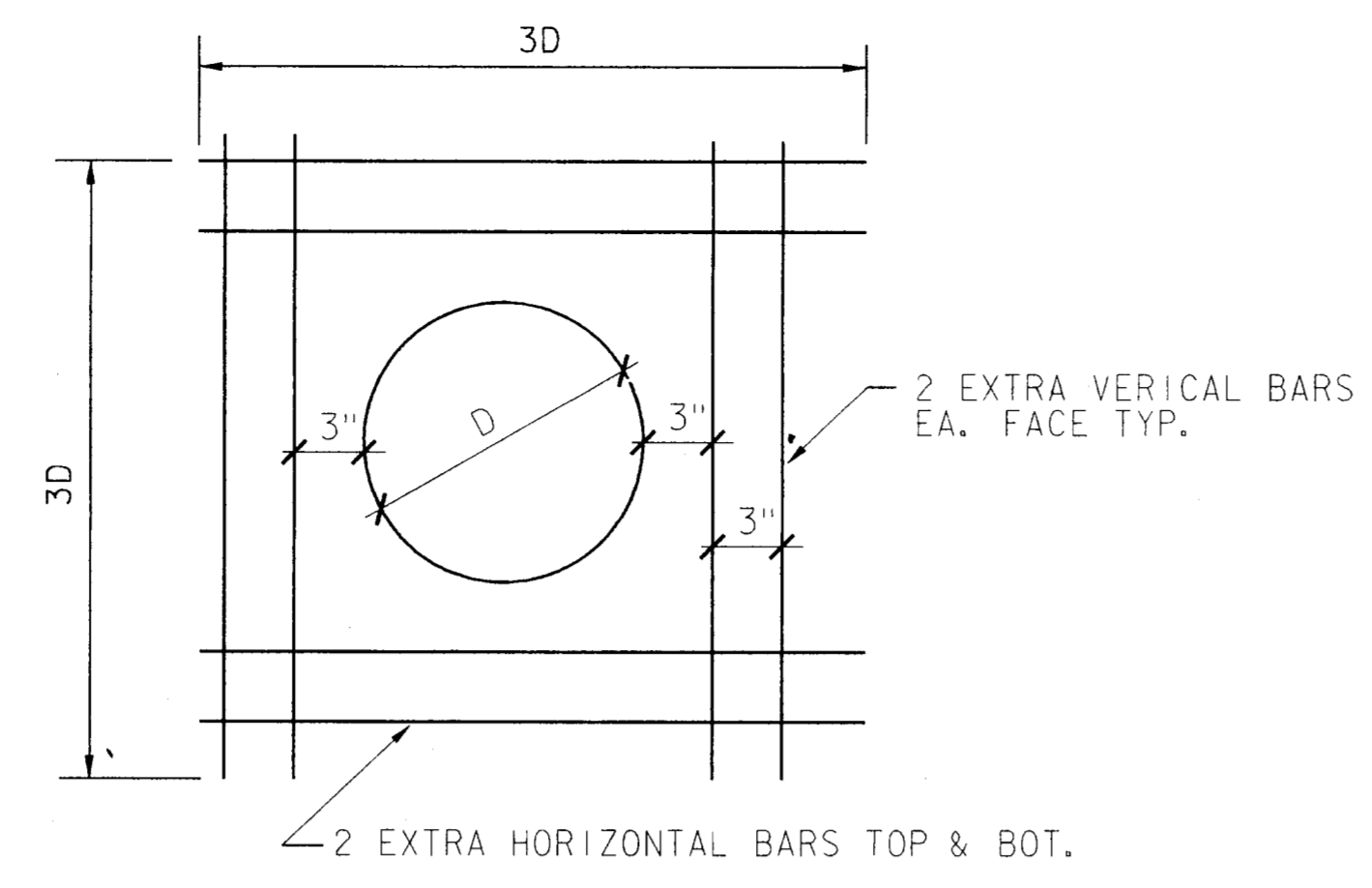


ROOF DECK WALL SUPPORT G
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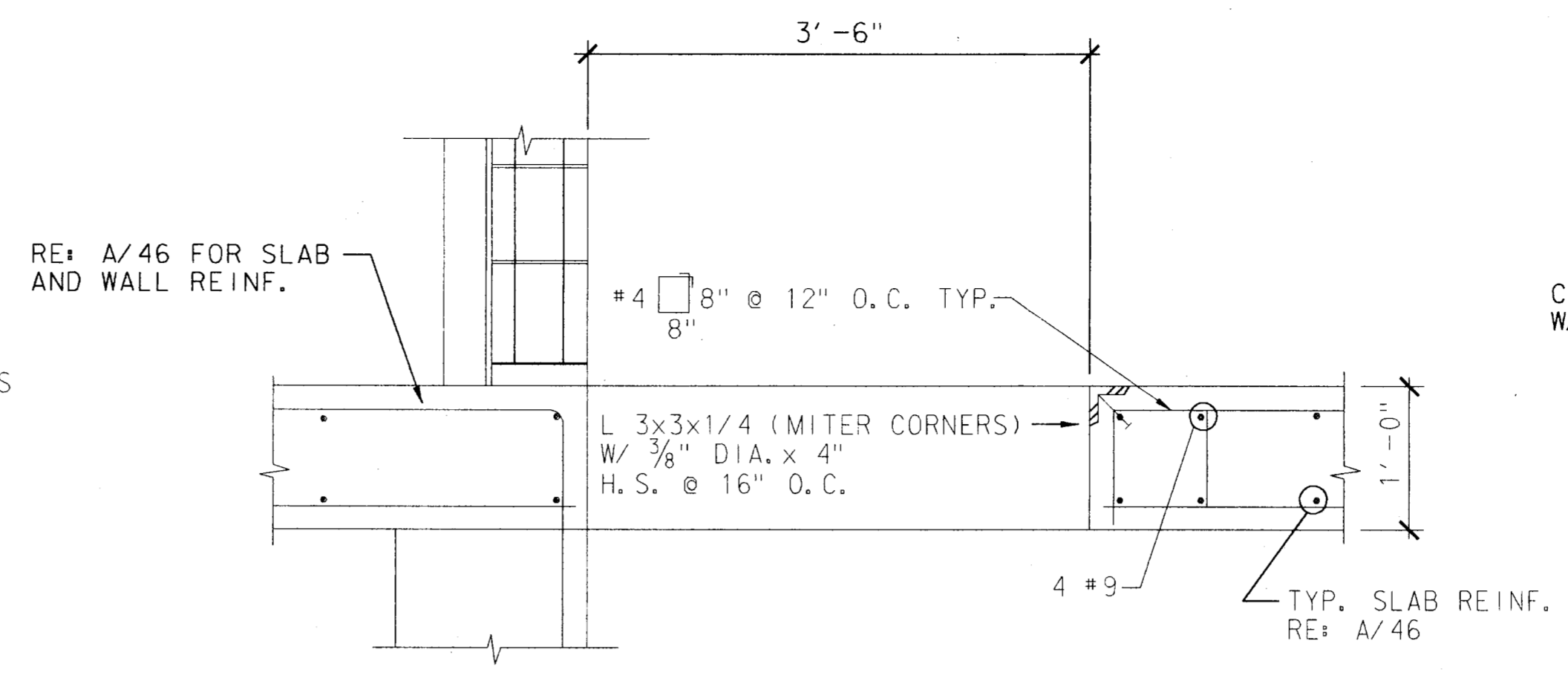
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NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS MIDWAY/BELTLINE SANITARY SEWER PHASE II LIFT STATION - STRUCTURAL BUILDING SECTIONS AND DETAILS			
 Carter Burgess <small>Consultants in Engineering, Architecture, Planning and the Environment.</small> CARTER & BURGESS, INC. <small>7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	Date	04-05-98
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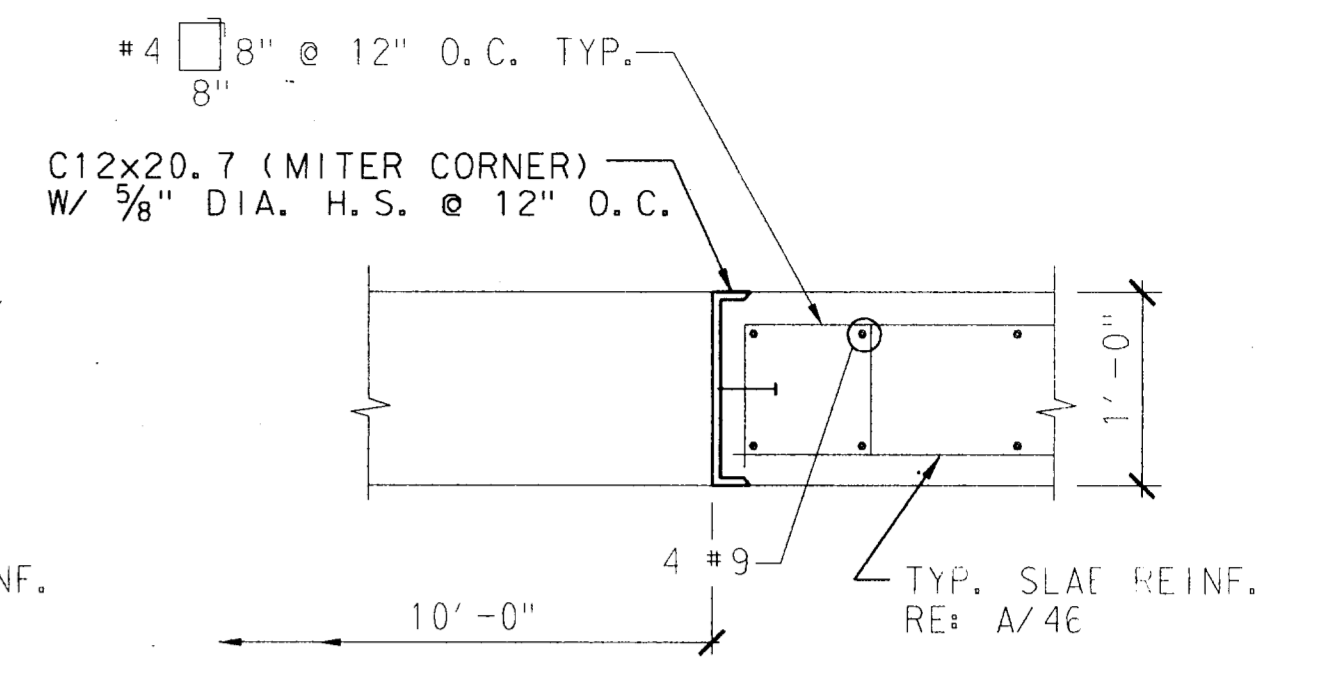
TYPICAL DETAIL (A)
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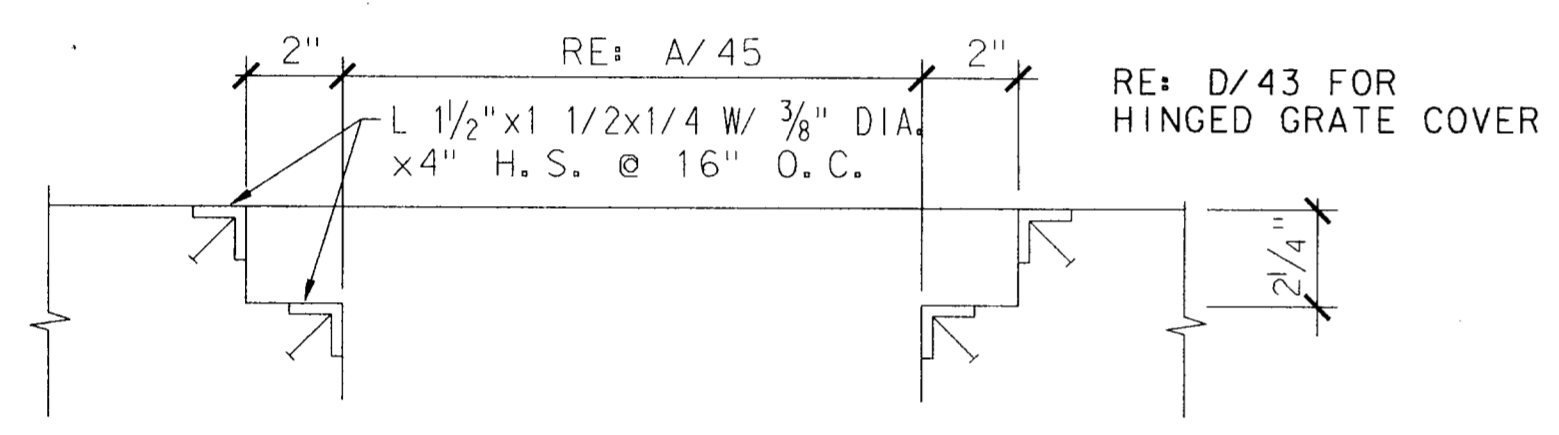
REINFORCEMENT AROUND WALL OPENINGS (B)
1/2" = 1'-0"



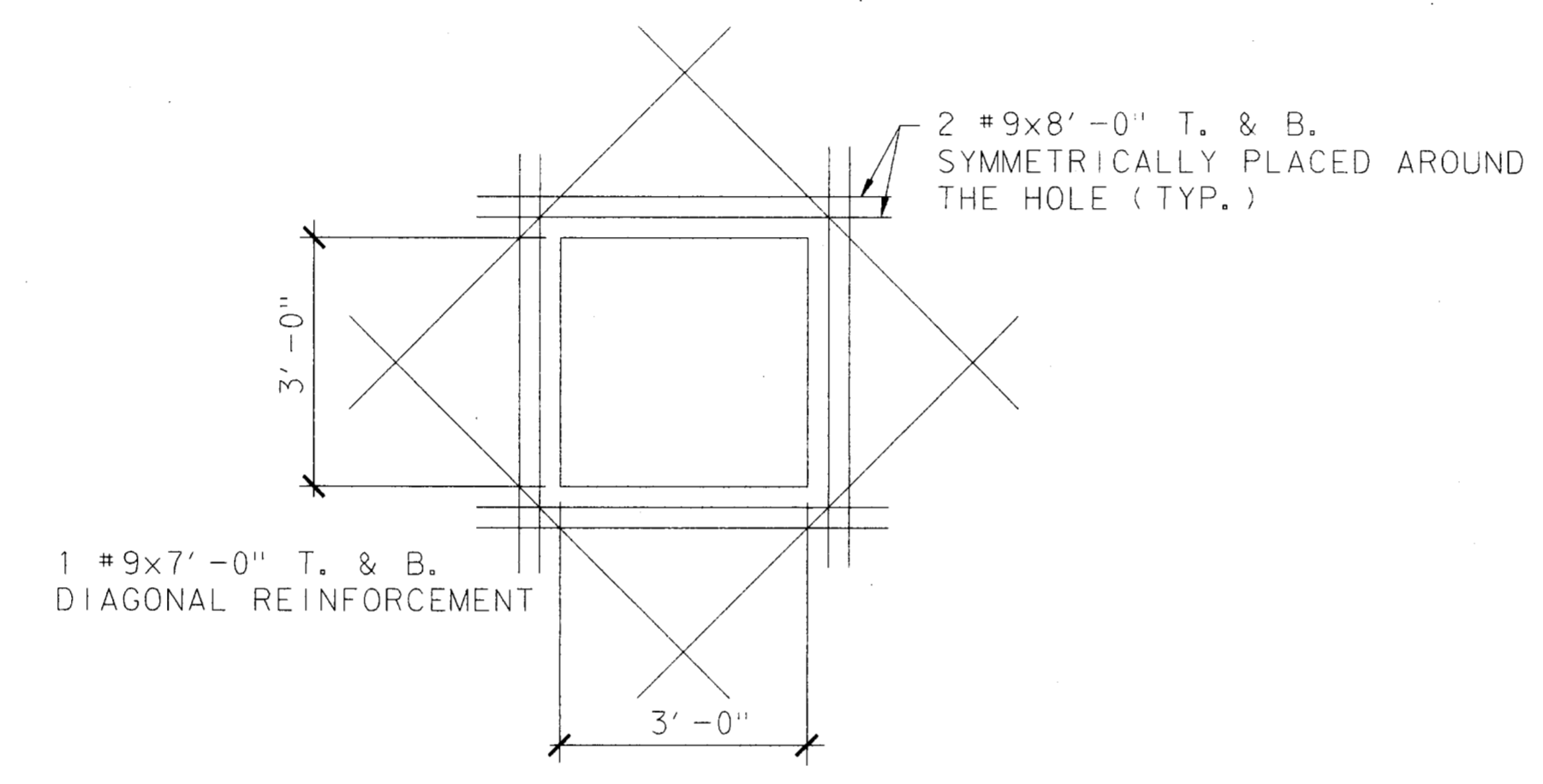
SECTION AT STAIR OPENINGS (C)
1" = 1'-0"



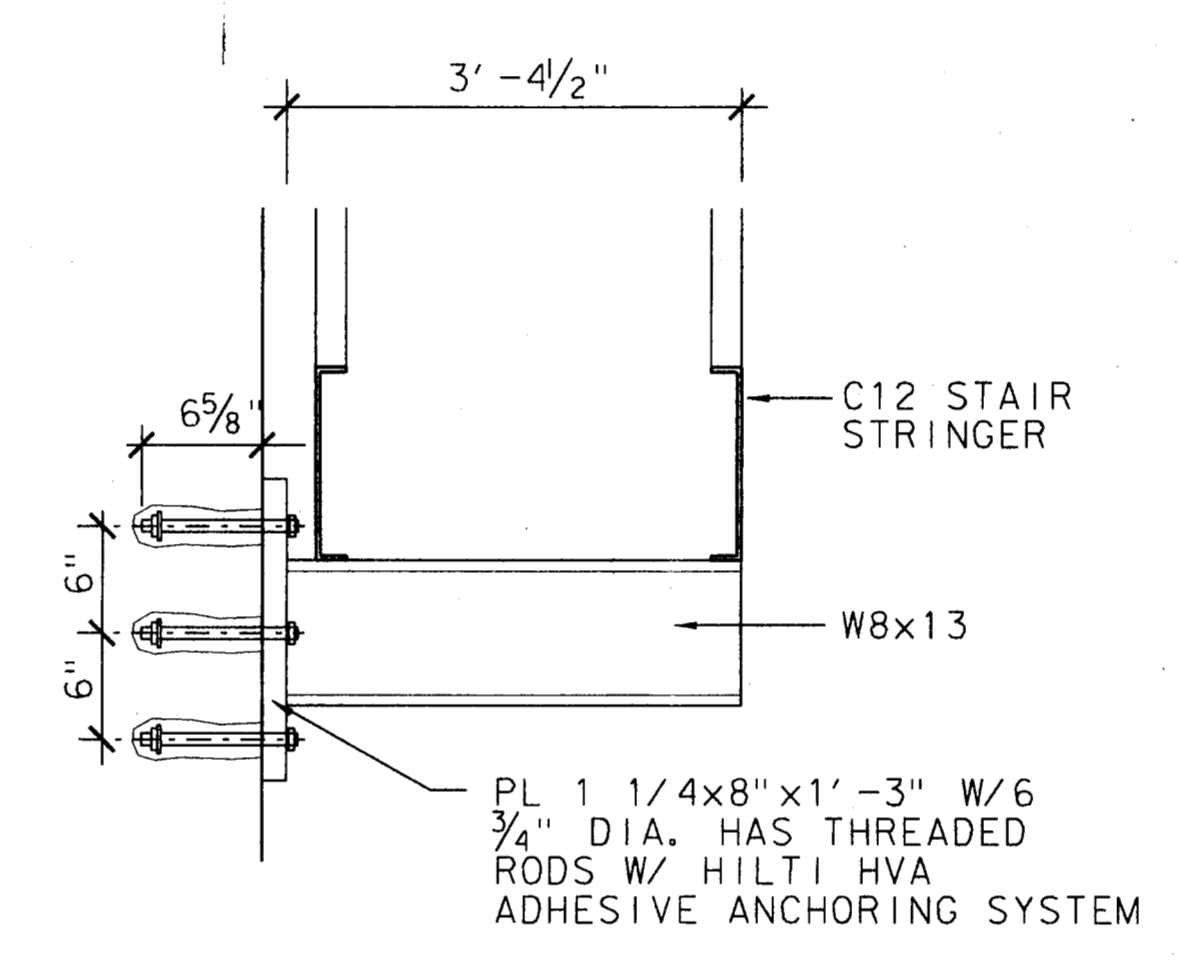
LONG SECTION AT STAIR OPENING (D)
1" = 1'-0"



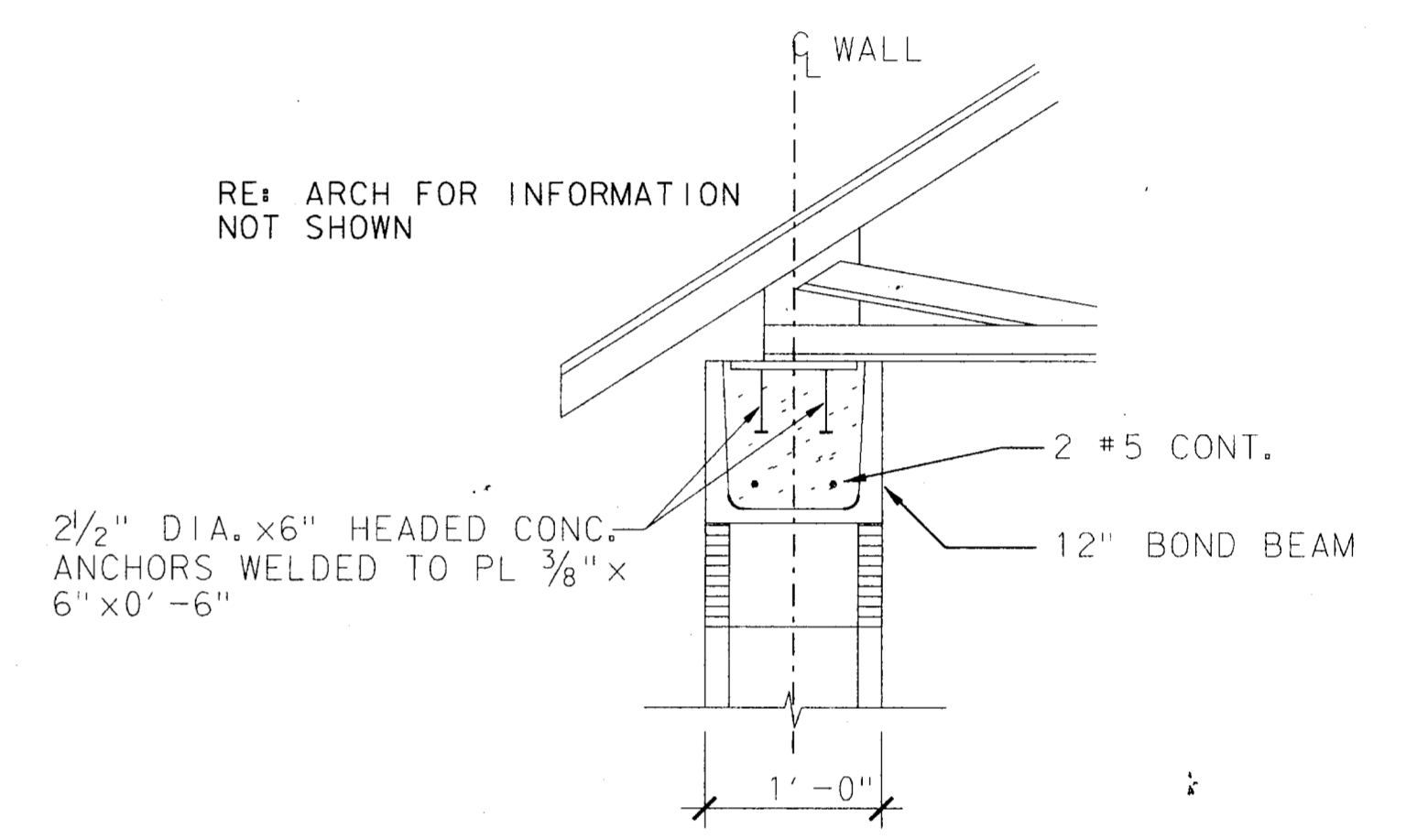
SECTION AT ACCESS HOLE (E)
1" = 1'-0"



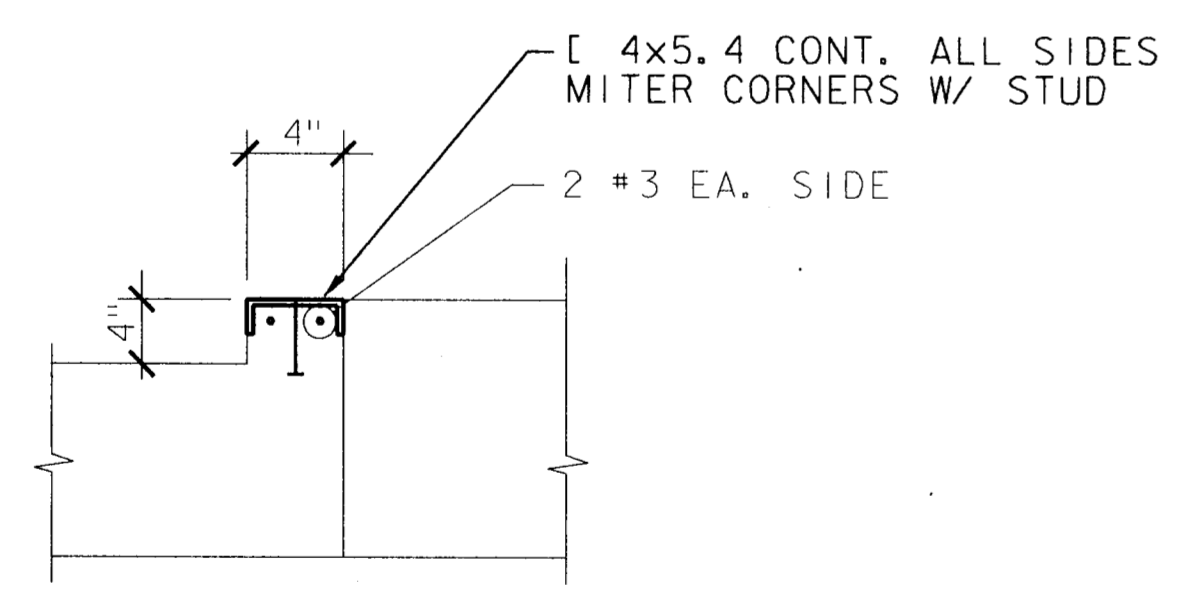
DETAIL - 3'-0" SQ. OPENINGS (F)
1/2" = 1'-0"



TYPICAL STAIR SUPPORT (G)
1" = 1'-0"



TRUSS SEAT AT BOND BEAM (H)
1" = 1'-0"



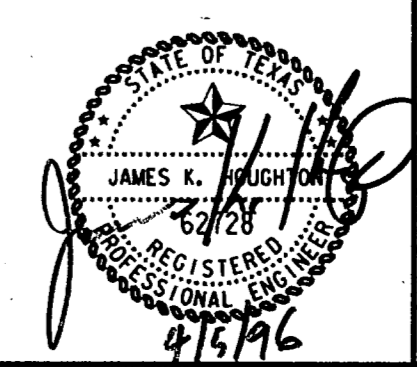
HATCH AND FAN OPENING DETAIL (I)
1" = 1'-0"

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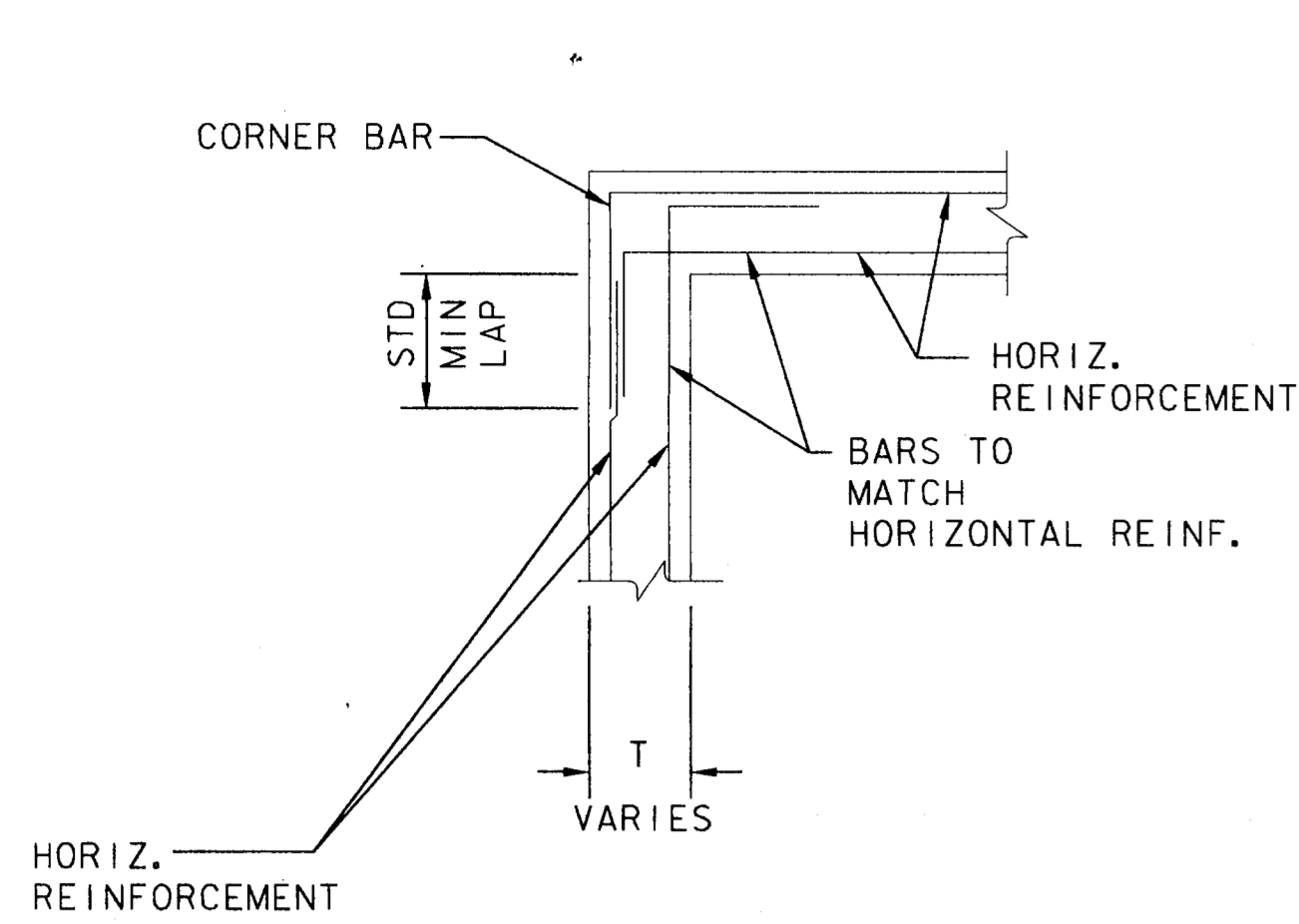
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PHASE II
LIFT STATION
STRUCTURAL DETAILS

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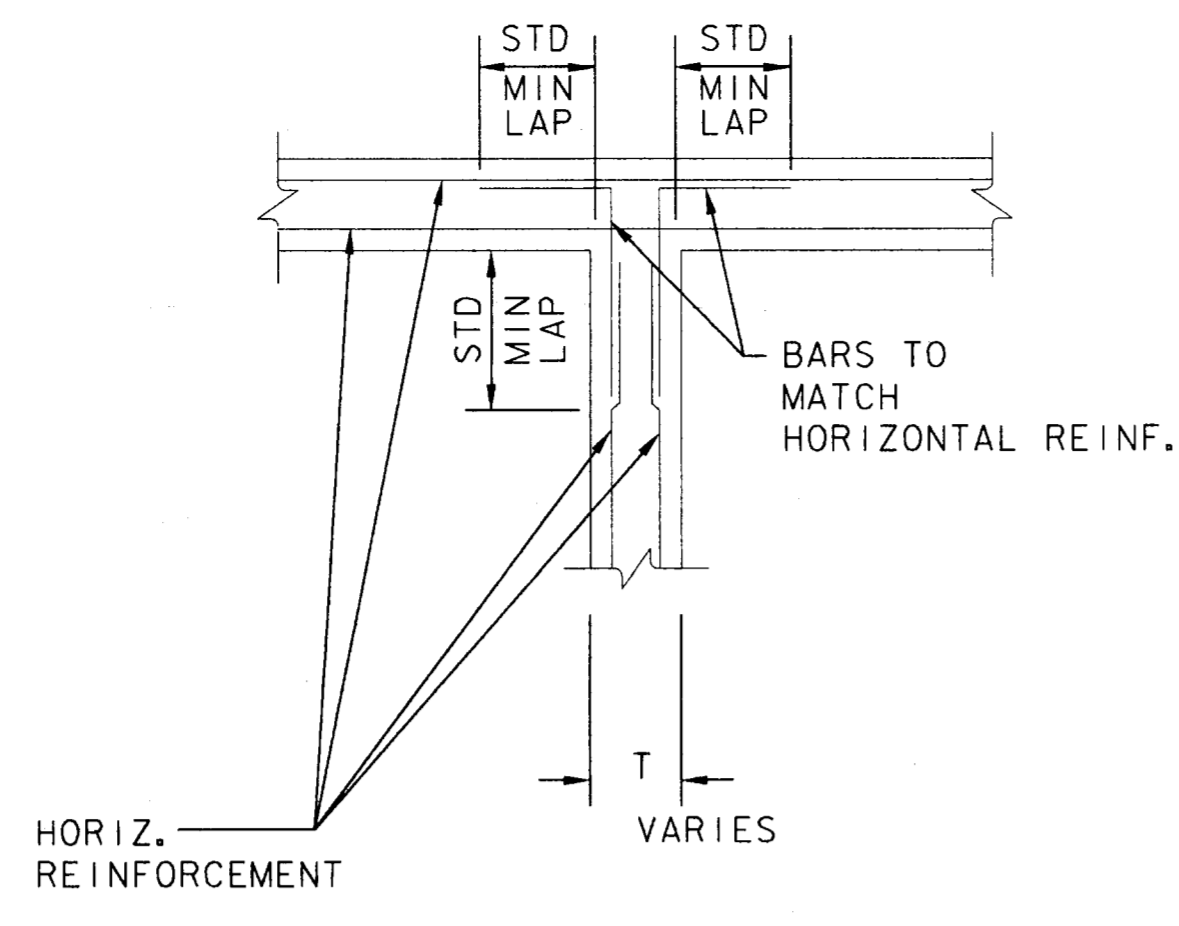


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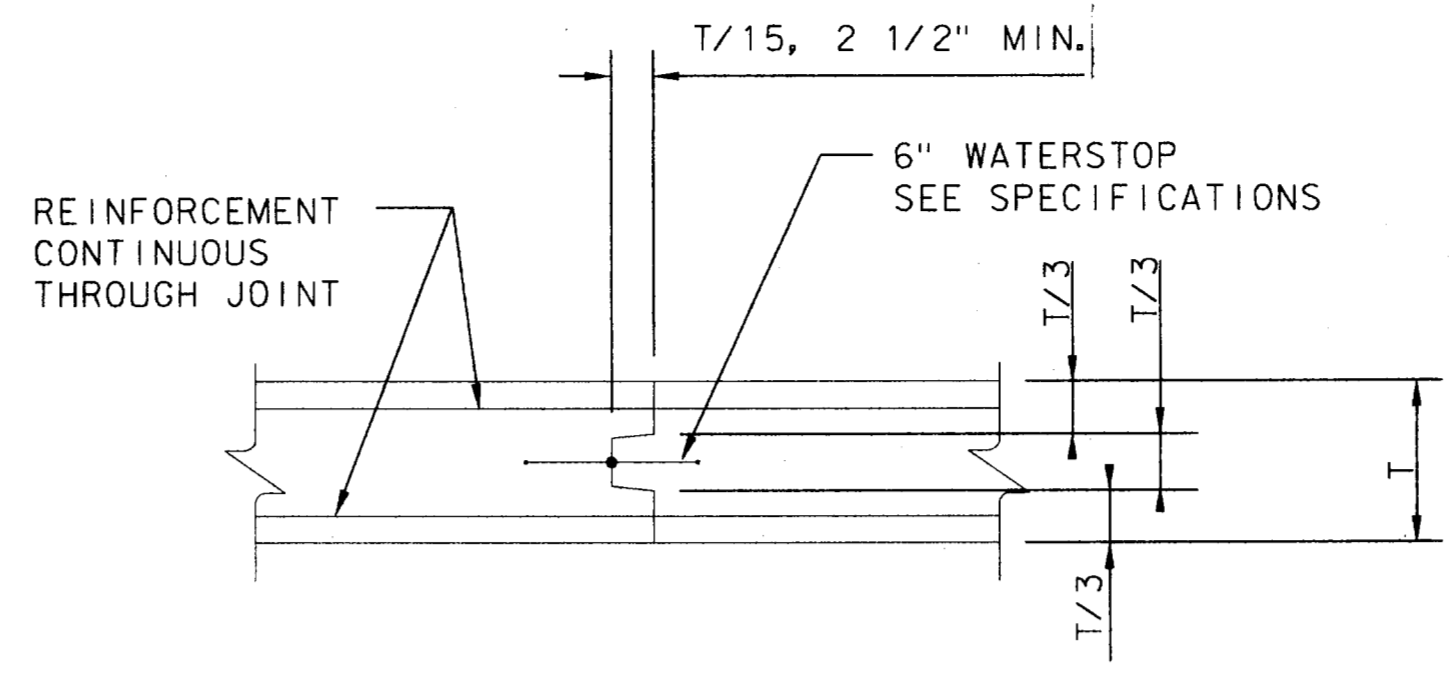
TYPICAL CORNER DETAIL (A)

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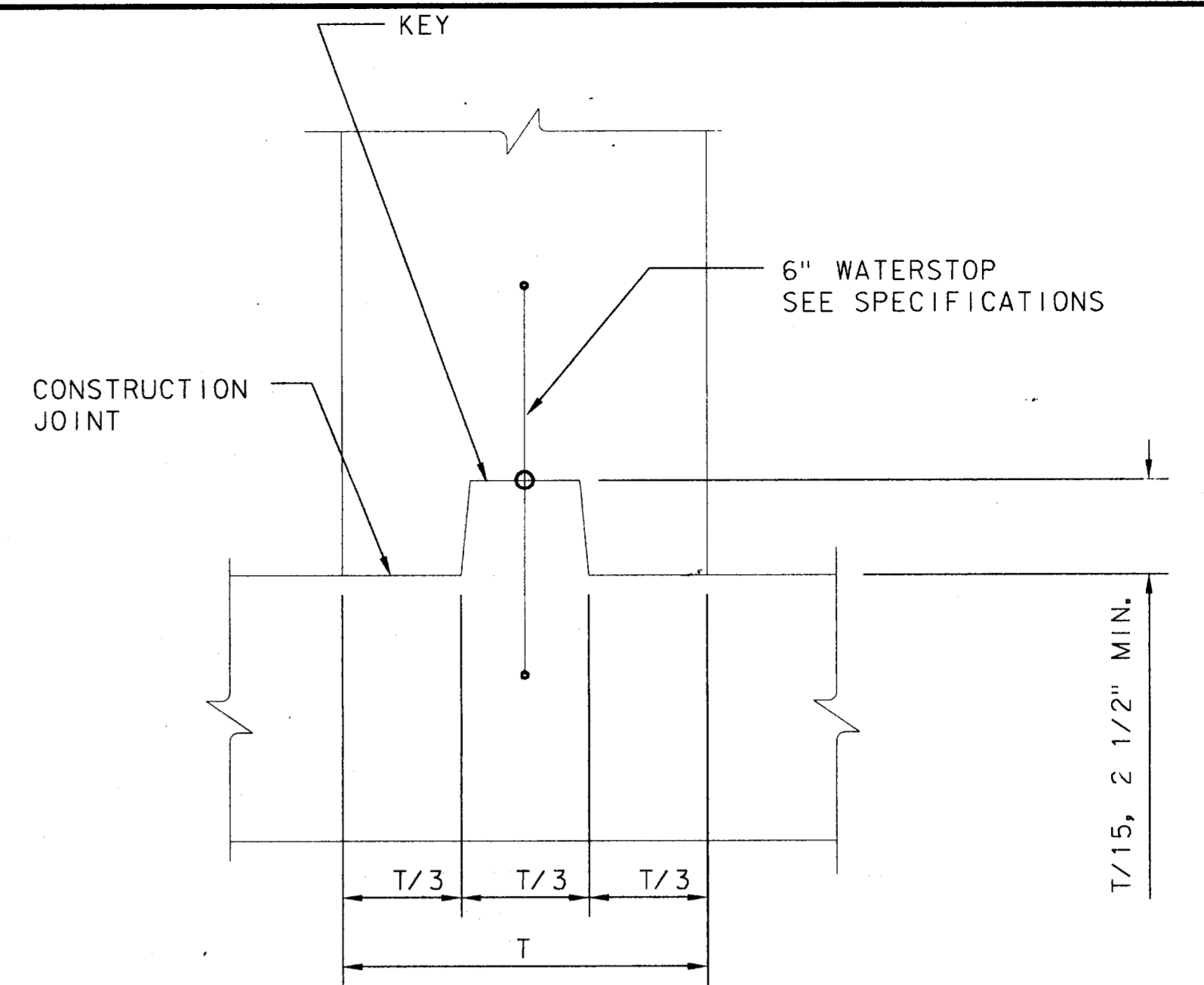
TYPICAL WALL TO WALL DETAIL (B)

NTS



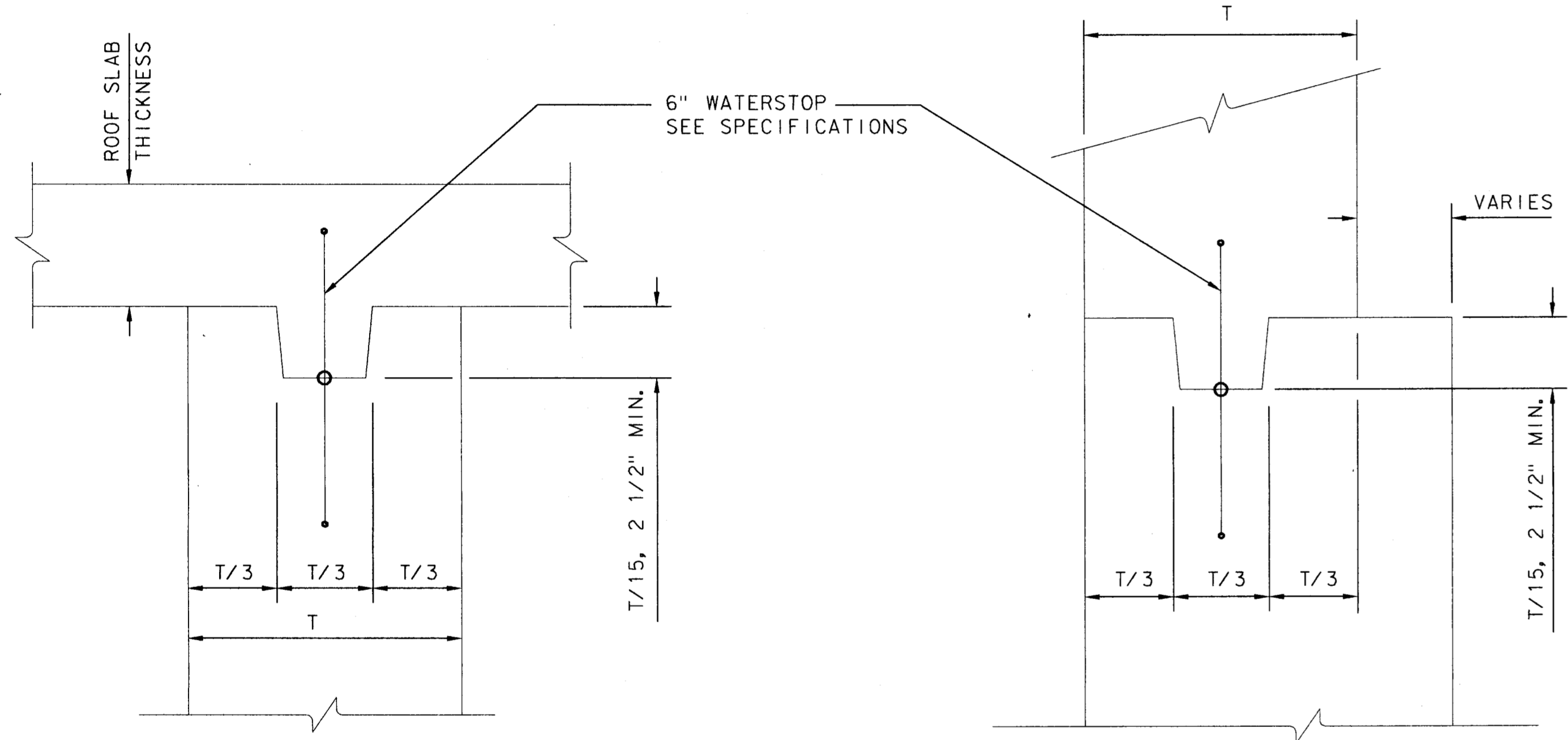
CONSTRUCTION JOINT AT SLAB (C)

NTS



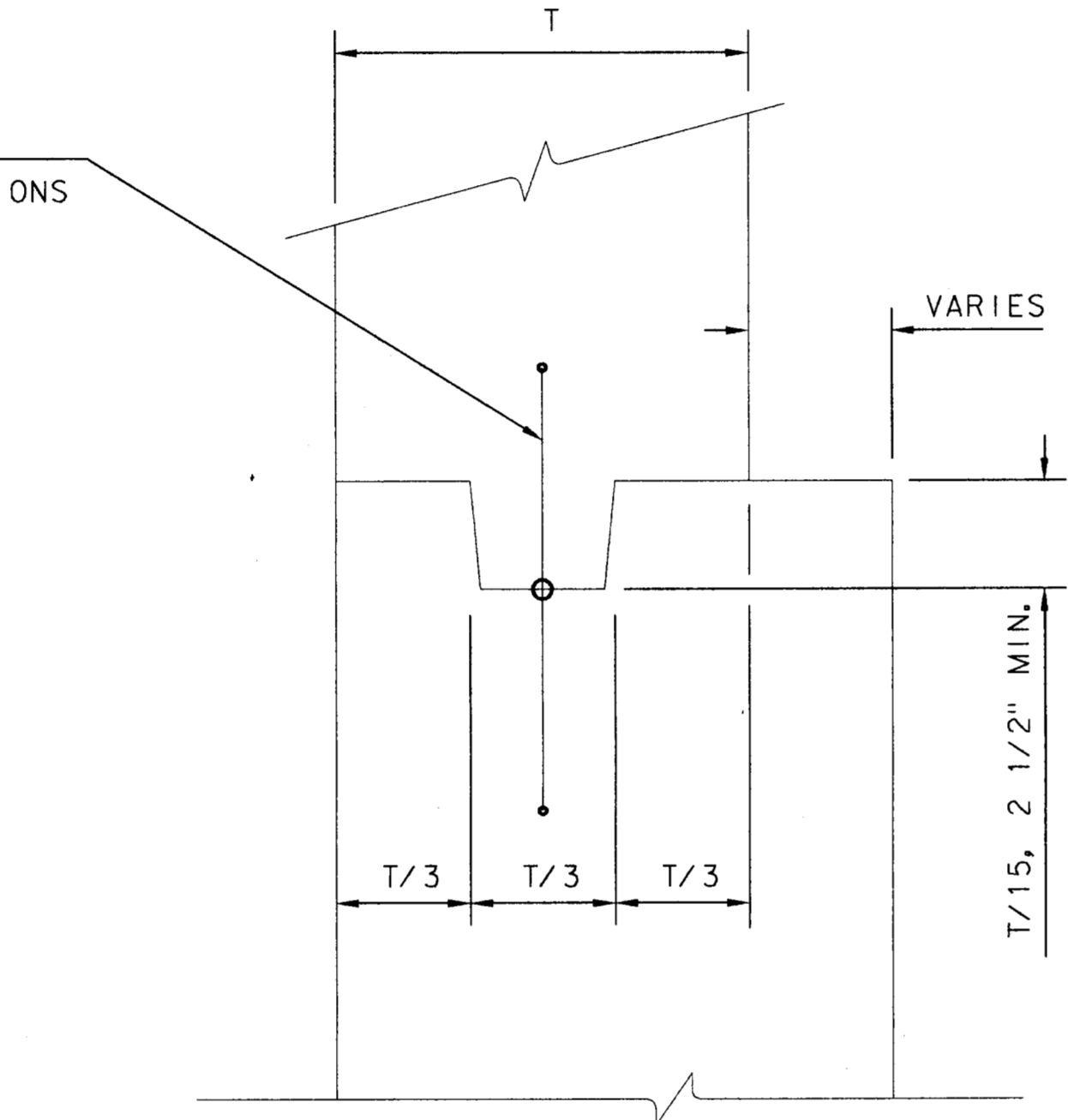
CONSTRUCTION JOINT LOWER SLAB TO WALL (D)

NTS



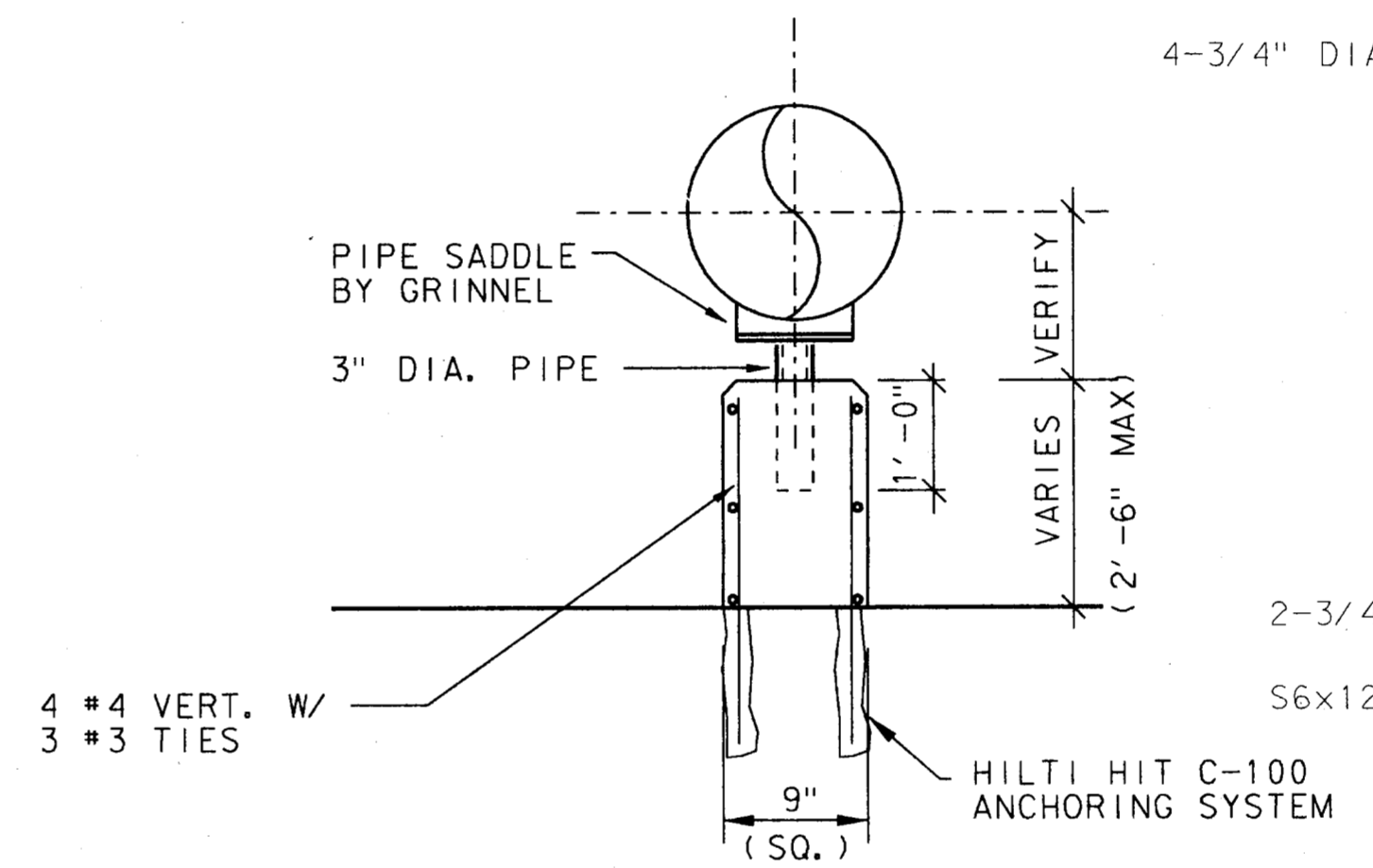
CONSTRUCTION JOINT UPPER SLAB TO WALL (E)

NTS



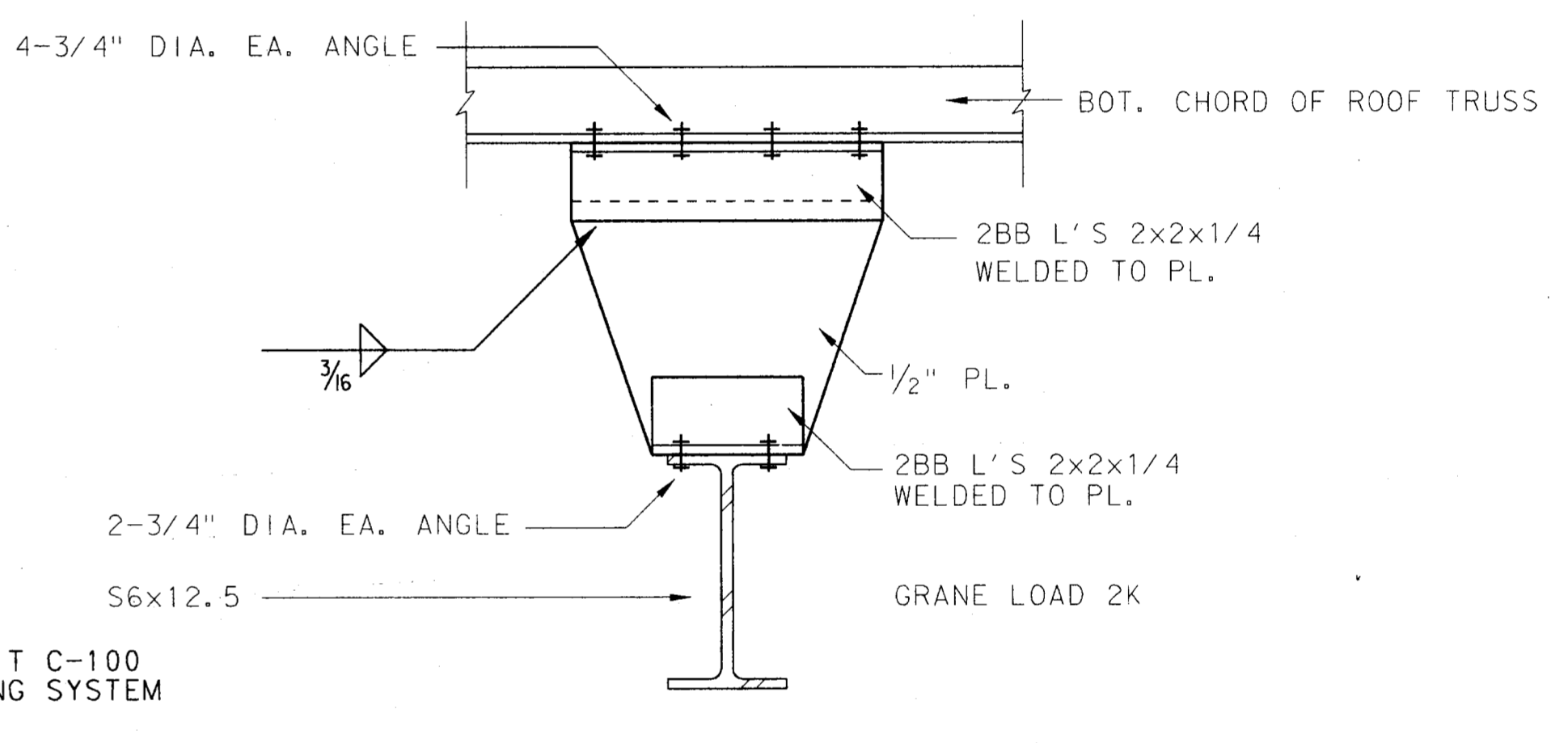
HORIZ. OR VERT. CONSTRUCTION JOINT AT WALL (F)

NTS



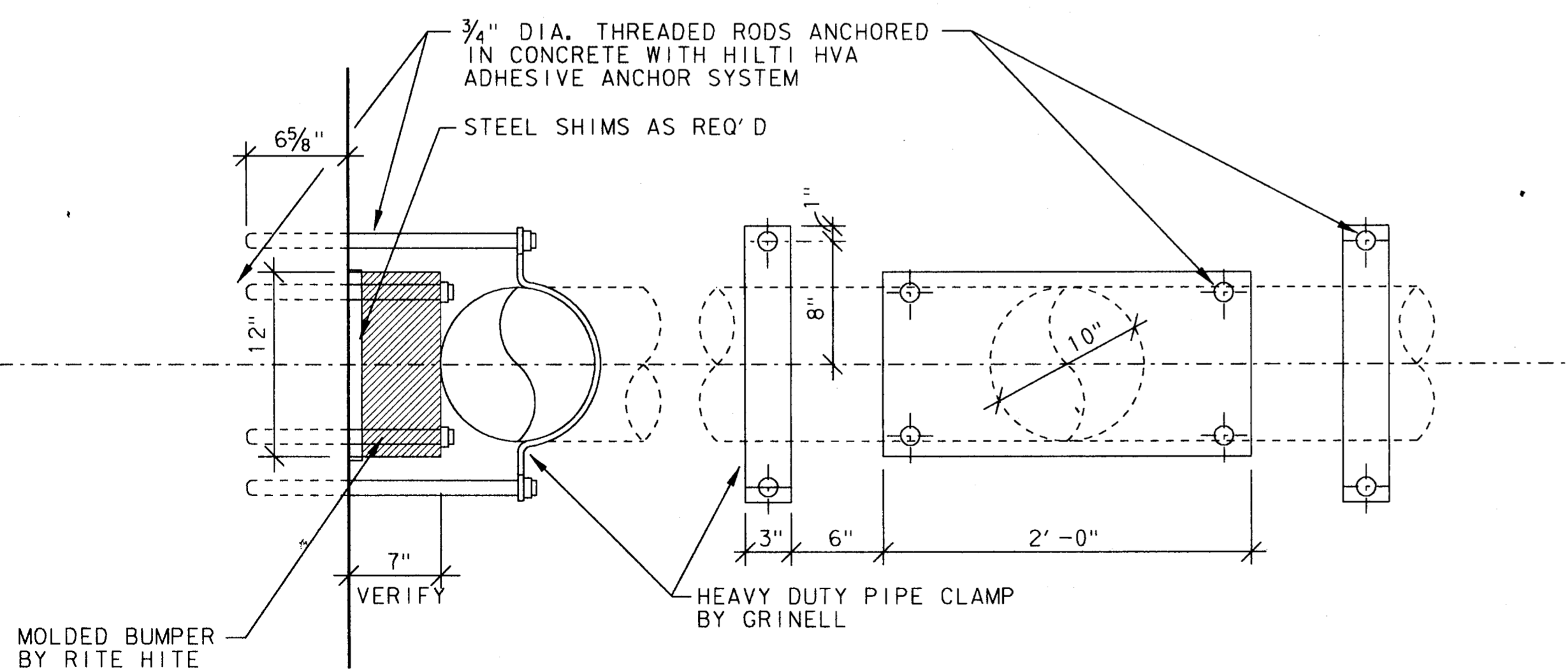
TYPICAL PUMP SUPPORT (G)

1" = 1'-0"



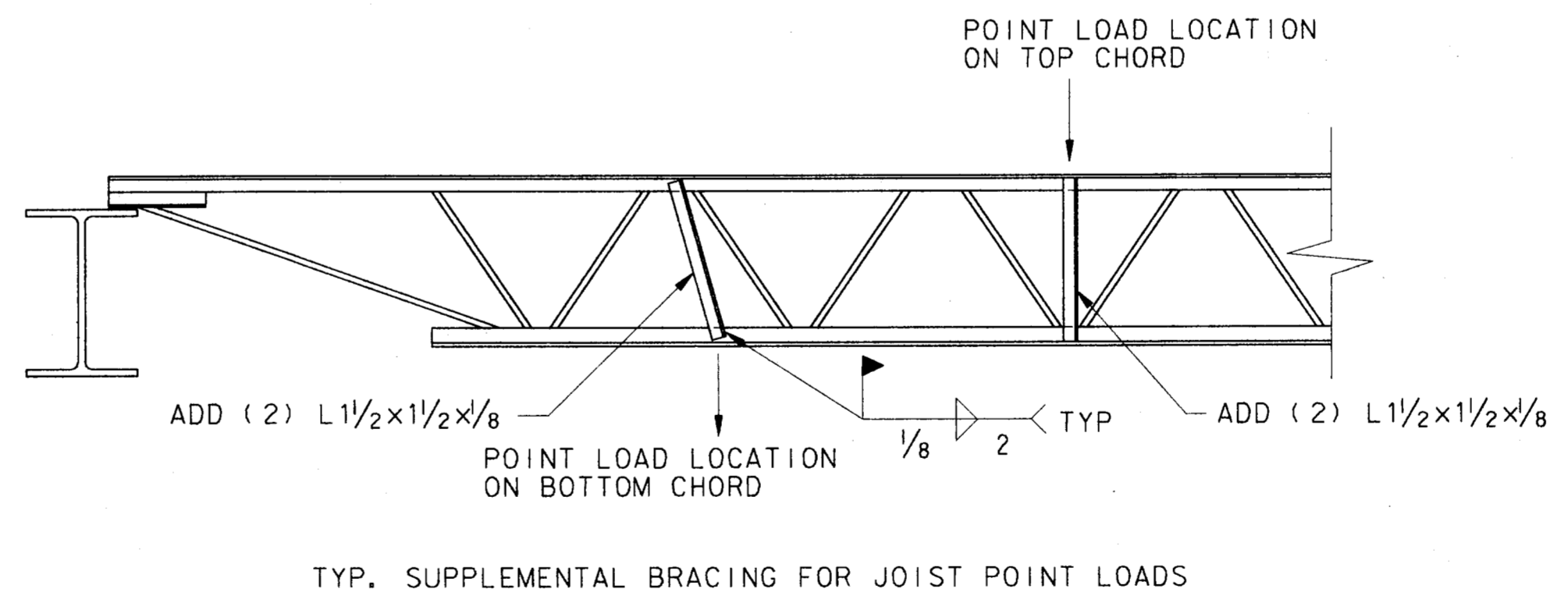
MONORAIL HOIST BEAM HANGER (H)

3" = 1'-0"



THRUST BLOCK DETAIL (I)

1/2" = 1'-0"

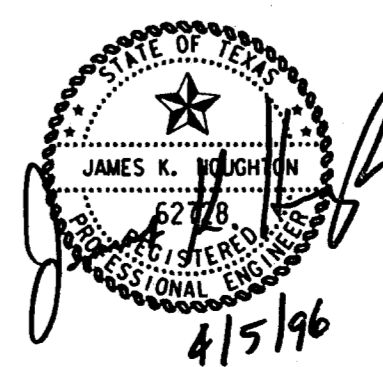


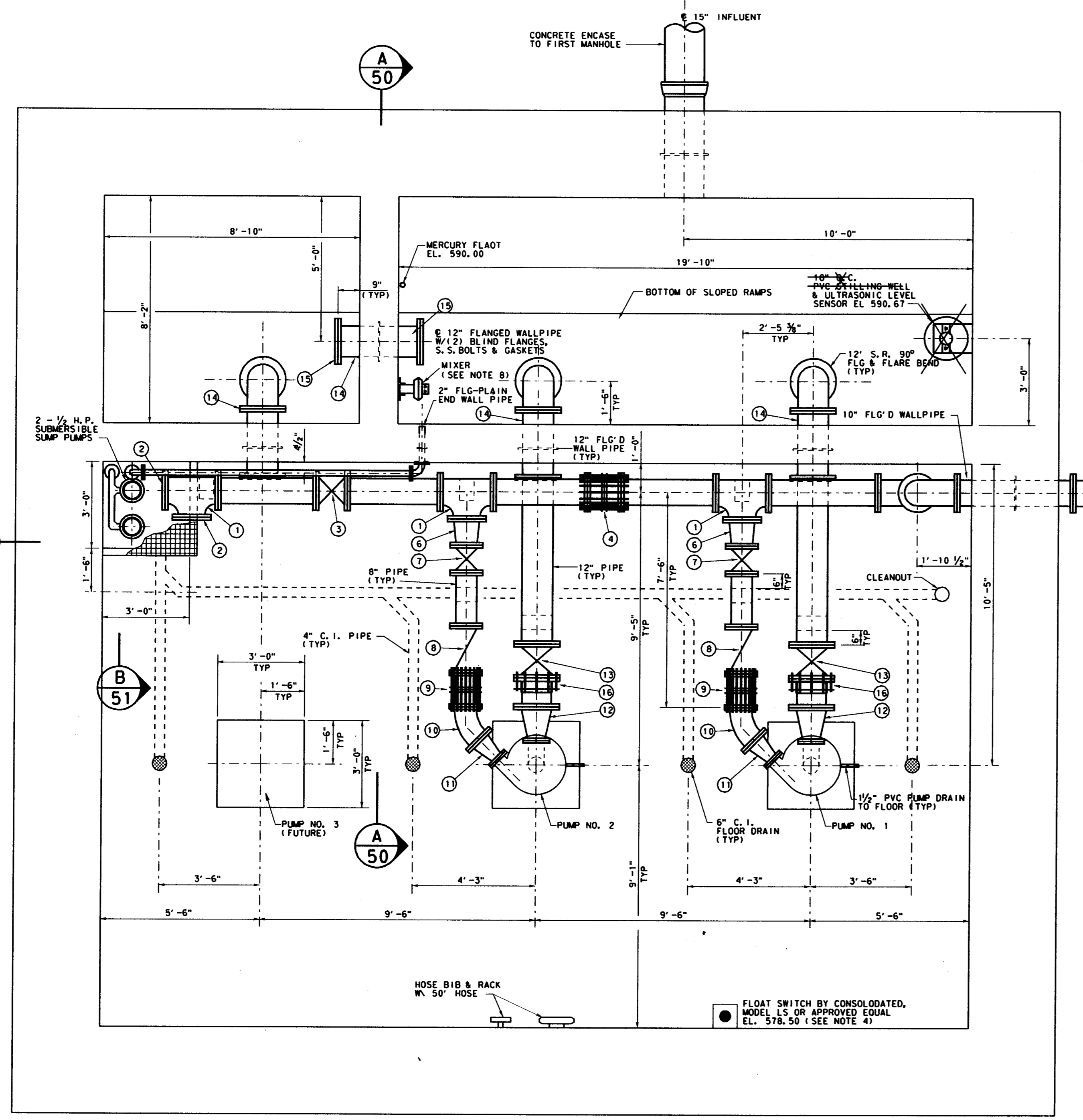
TYP. JOIST CHORD BRACING DETAIL (J)

1" = 1'-0"

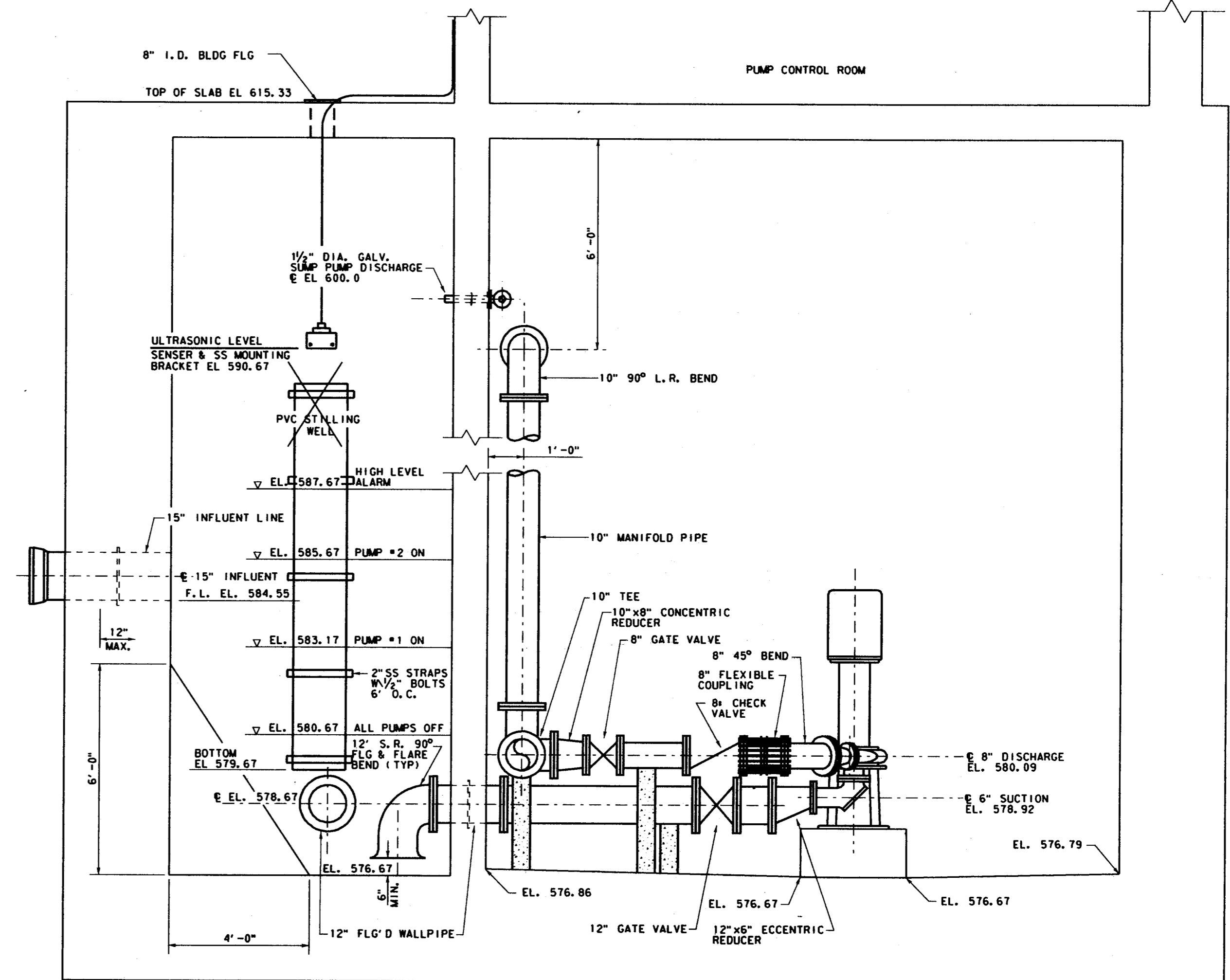
NOTE: USE THIS DETAIL WHEN POINT LOAD EXCEEDS 20 LBS. AND IS 6" OR MORE AWAY FROM PANEL POINT. ANGLES TO BE IN PLACE PRIOR TO APPLICATION OF LOAD. CONTRACTOR SHALL COORDINATE ALL SUPERIMPOSED LOADS WITH THE JOIST MANUFACTURER PRIOR TO JOIST FABRICATION. LOCATIONS OF THESE LOADS SHALL BE ON THE SUBMITTED JOIST SHOP DRAWINGS.

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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LIFT STATION STRUCTURAL DETAILS			
Carter Burgess Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7955 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961			
Unit	Scale	Date 04-05-96	
Designed	K. Houghton	Checked	K. Houghton
Drawn	C. Simmons	Approved	J. Lindner
Job No.	93327601D	Sheet	49 of 63



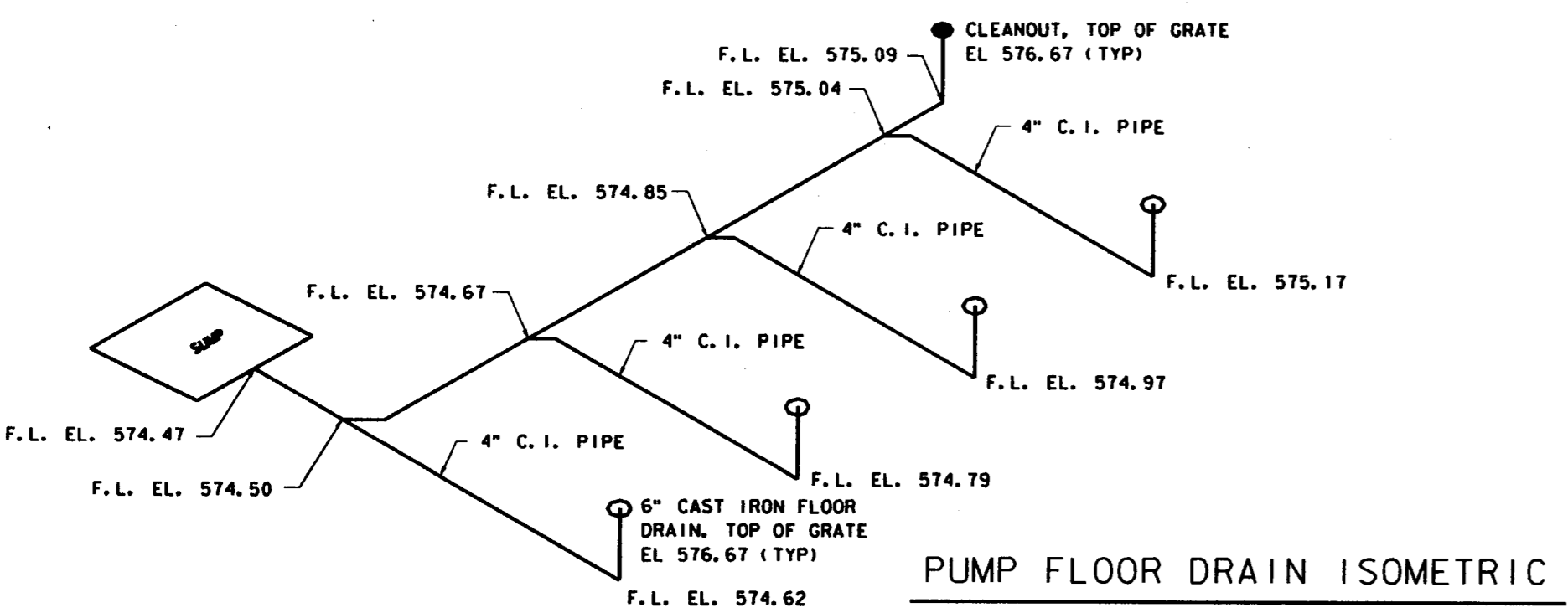


LIFT STATION PLAN - ELEV. 576.67
3/8" = 1'-0"

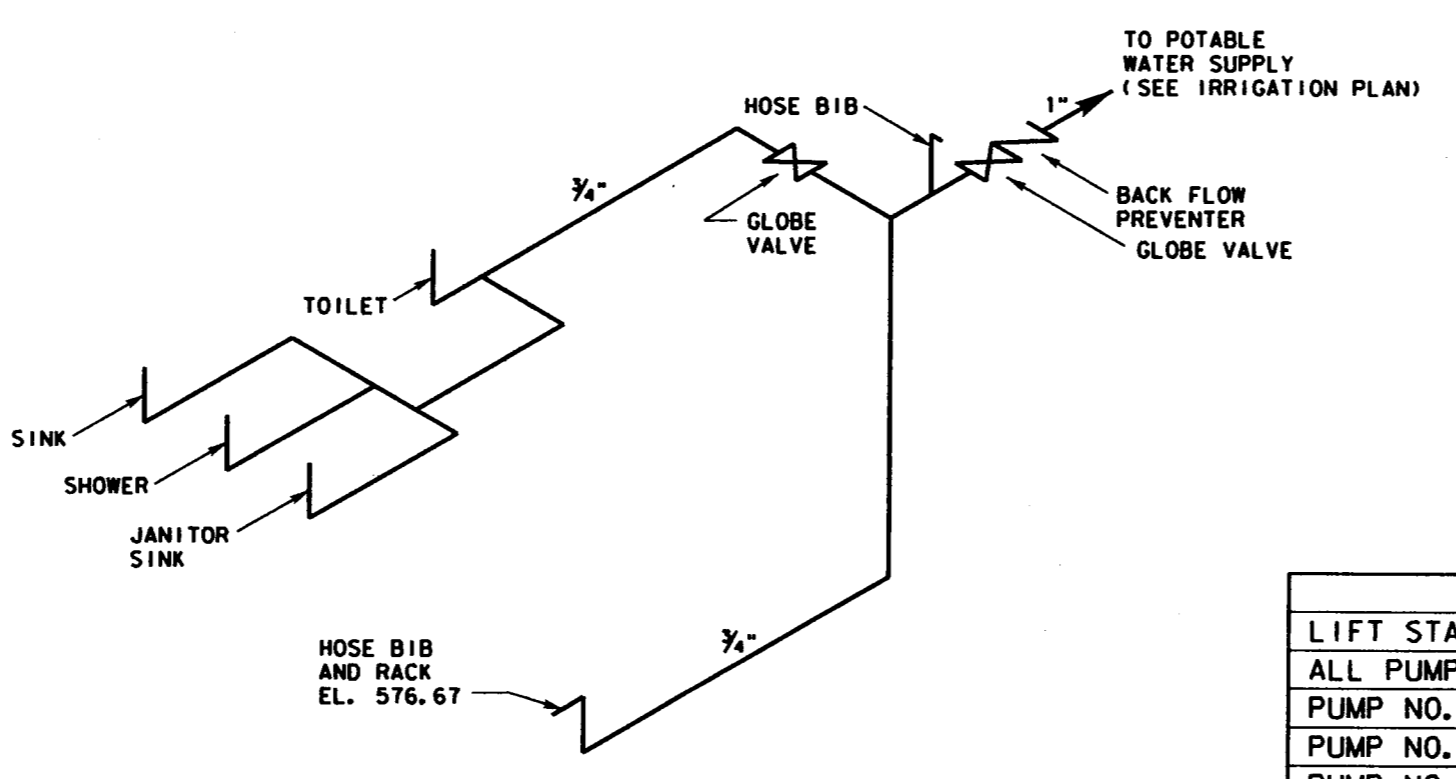


SECTION A-50
3/8" = 1'-0"

ITEM	QUANTITY	SIZE	DESCRIPTION
1	3	10" x 10"	FLANGED TEE
2	2	10"	BLIND FLANGE
3	1	10"	GATE VALVE (SEE NOTE 7)
4	1	10"	FLEX COUPLING W/THRUST RESTRAINT
5	2	10"	90° BEND
6	2	10" x 8"	CONC. REDUCER
7	2	8"	GATE VALVE
8	2	8"	CHECK VALVE (SEE NOTE 5)
9	2	8"	FLEX COUPLING W/THRUST RESTRAINT
10	2	8"	45° BEND
11	2	8" x 5"	CONC. REDUCER
12	2	12" x 6"	CONC. REDUCER
13	2	12"	GATE VALVE (SEE NOTE 7)
14	4	12"	FLANGED WALL PIPE
15	2	12"	BLIND FLANGE
16	2	12"	FLANGED COUPLING ADAPTER



PUMP FLOOR DRAIN ISOMETRIC



POTABLE WATER ISOMETRIC

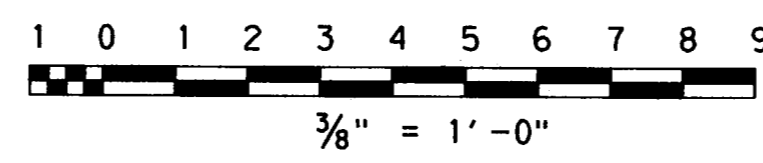
MIXER SETTINGS

MIXER OFF	581.00
MIXER ON	582.00

PUMP LEVEL SETTINGS

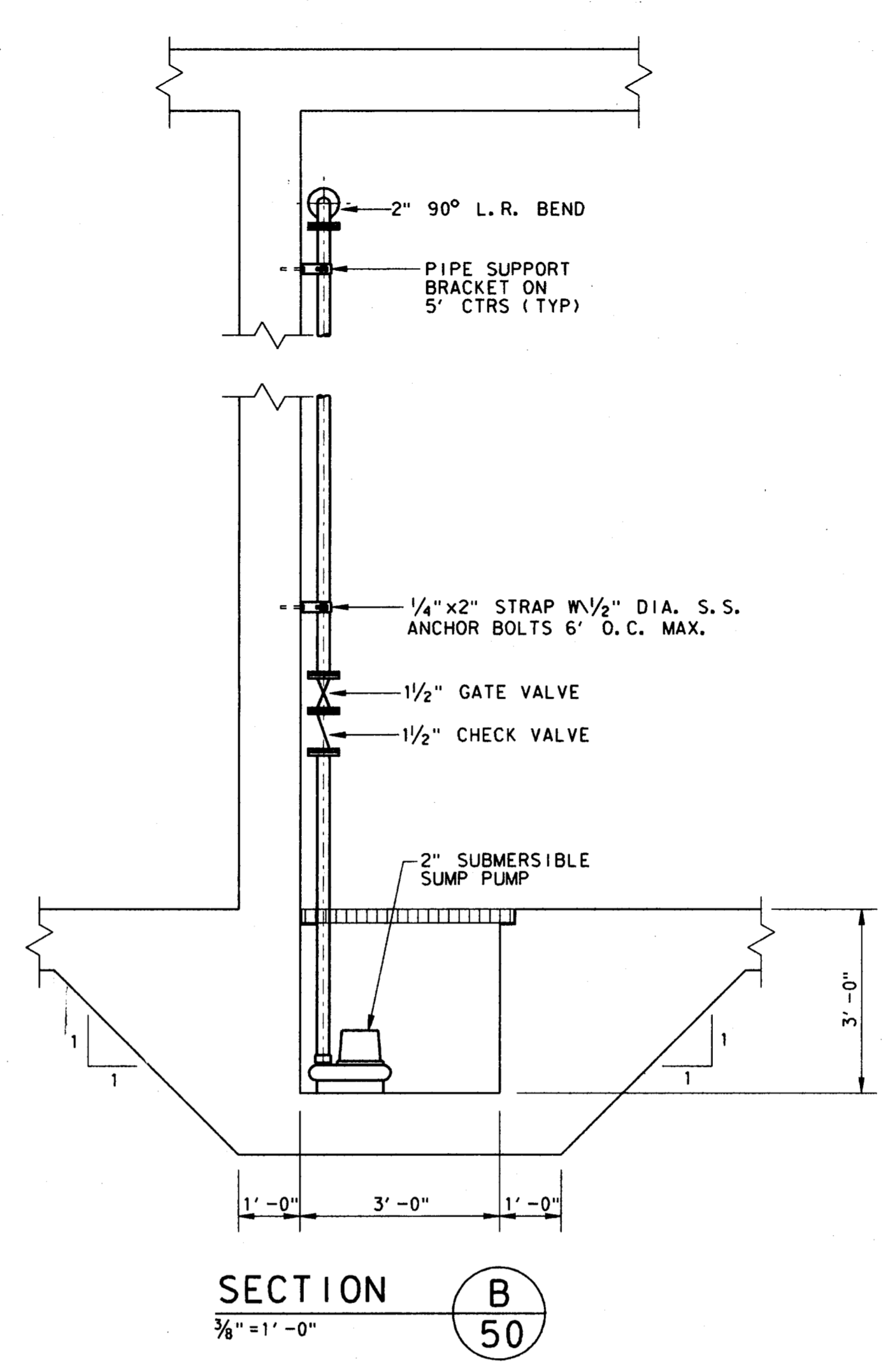
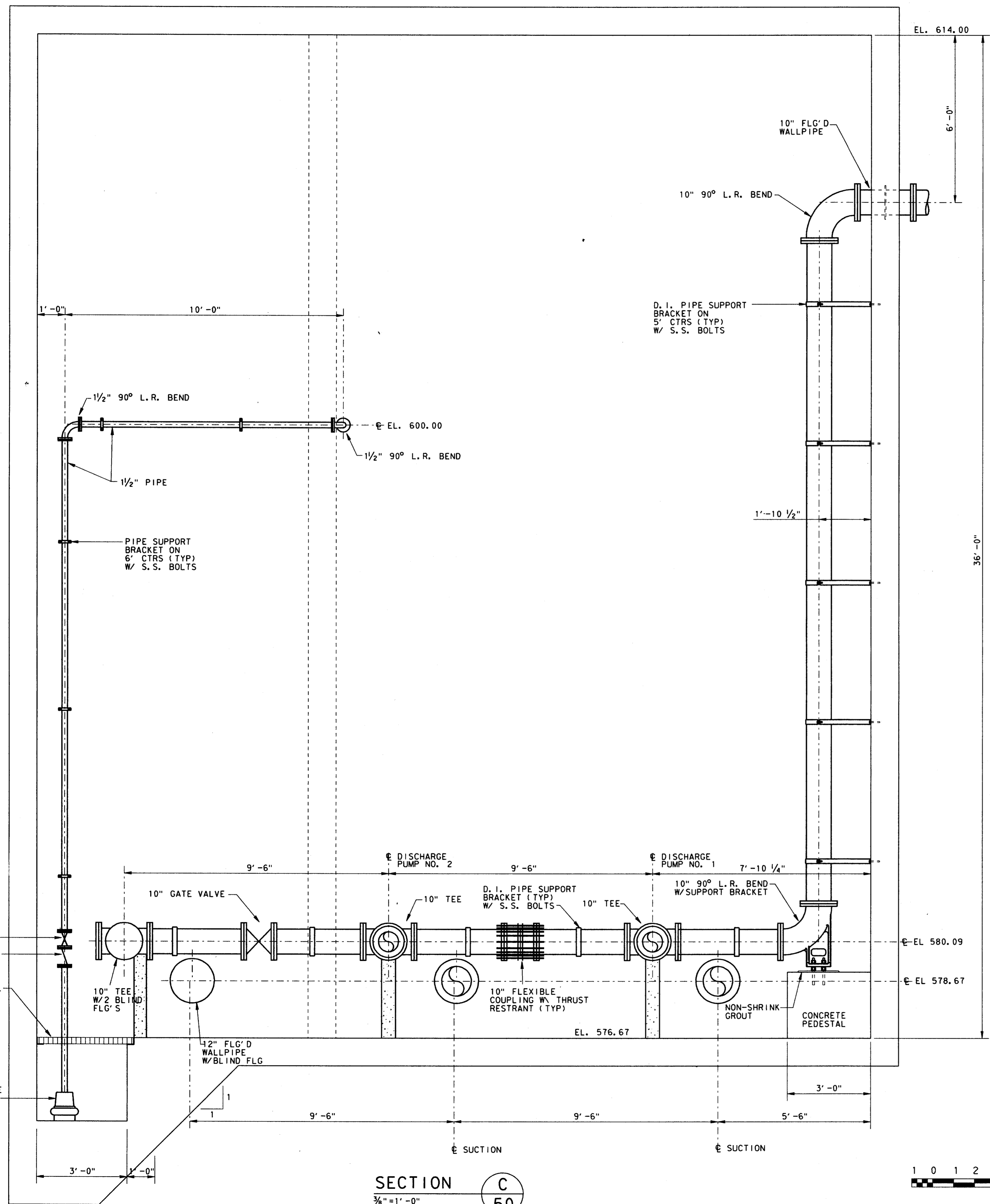
	INITIAL	ULTIMATE
LIFT STATION CAPACITY	1.0 MGD	3.0 MGD
ALL PUMPS OFF	580.67	580.67
PUMP NO. 1 ON	583.17	583.17
PUMP NO. 2 ON	585.67	585.67
PUMP NO. 3 ON	N/A	587.17
HIGH LEVEL ALARM	587.67	588.67

- NOTES:
- ALL BOLTS, HARDWARE & ANGLES SHALL BE STAINLESS STEEL.
 - CONTRACTOR SHALL INSTALL A BADGER MODEL 2500 ULTRASONIC LEVEL TRANSMITTER, OR APPROVED EQUAL, ONE MERCURY FLOAT SWITCH, FOR PUMP CONTROL AND ALARM SIGNAL ACTIVATION, MERCURY SWITCH SHALL SERVE AS A BACKUP TO ULTRASONIC AND SHALL ACTIVATE ALARM AND START ONE PUMP.
 - FLOOR DRAIN SHALL BE 6" CAST IRON WITH GRATE TYLER MODEL 314, OR APPROVED EQUAL.
 - DRY WELL WATER LEVEL FLOAT SWITCH SHALL ACTIVATE ALARM.
 - CHECK VALVE SHALL BE CUSHIONED TYPE GOLDEN ANDERSON MODEL G. A. FIGURE 250-D OR APPROVED EQUAL.
 - THRUST RESTRAINTS SHALL BE RATED AT 200 PSI.
 - ALL GATE VALVES SHALL BE RESILIENT SLATED.
 - MIXER SHALL BE FLYGT SERIES 4600 RATED AT 2.5 H.P., 460 V WITH STAINLESS STEEL LIFTING CHAIN AND HARDWARE.

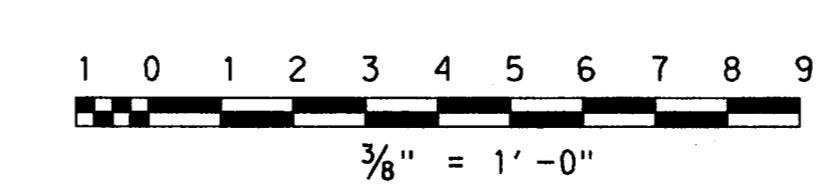


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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LIFT STATION MECHANICAL PLAN & SECTIONS			
Carter & Burgess			
<small>Consultants in Engineering, Architecture, Planning and the Environment</small>			
<small>CARTER & BURGESS, INC. 7950 EMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	3/8" = 1'	Date 04-05-98
Designed	J. Lindner	Checked	J. Lindner
Drawn	R. Howman	Approved	J. Lindner
Job No.	93327601D	Sheet	50 of 63

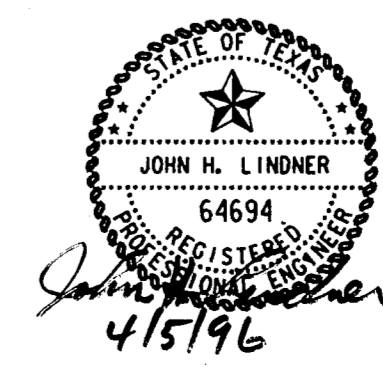
REVISIONS
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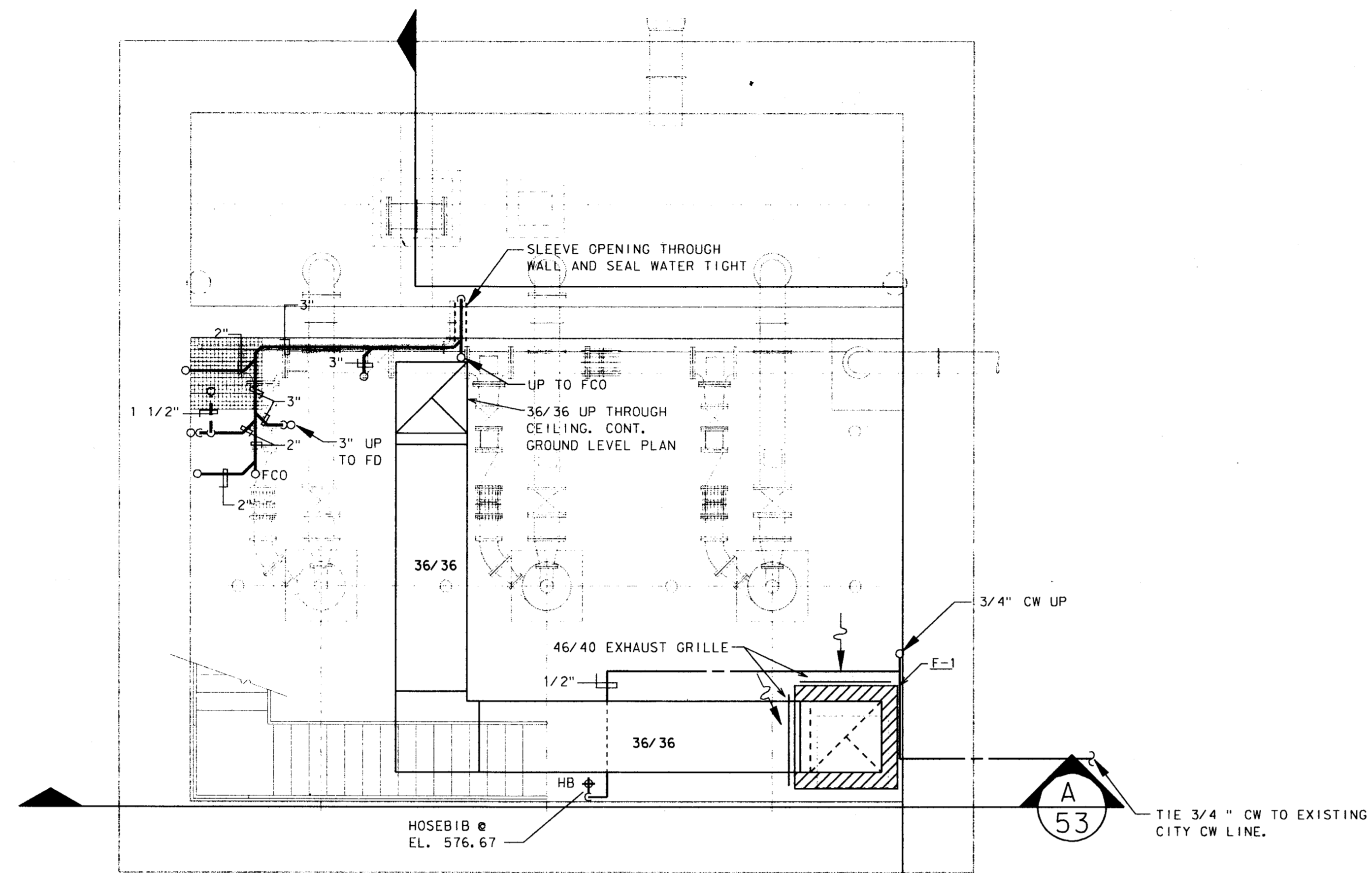


SECTION C
3/8" = 1'-0"



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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LIFT STATION MECHANICAL PLAN SECTIONS			
Carter & Burgess <small>Consultants in Engineering, Architecture, Planning and the Environment</small> CARTER & BURGESS, INC. <small>7950 EMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961</small>			
Unit	Scale	3/8" = 1'	Date 04-05-96
Designed	J. Lindner	Checked	J. Lindner Job No. 93327601D
Drawn	R. Howman	Approved	J. Lindner Sheet 51 of 63



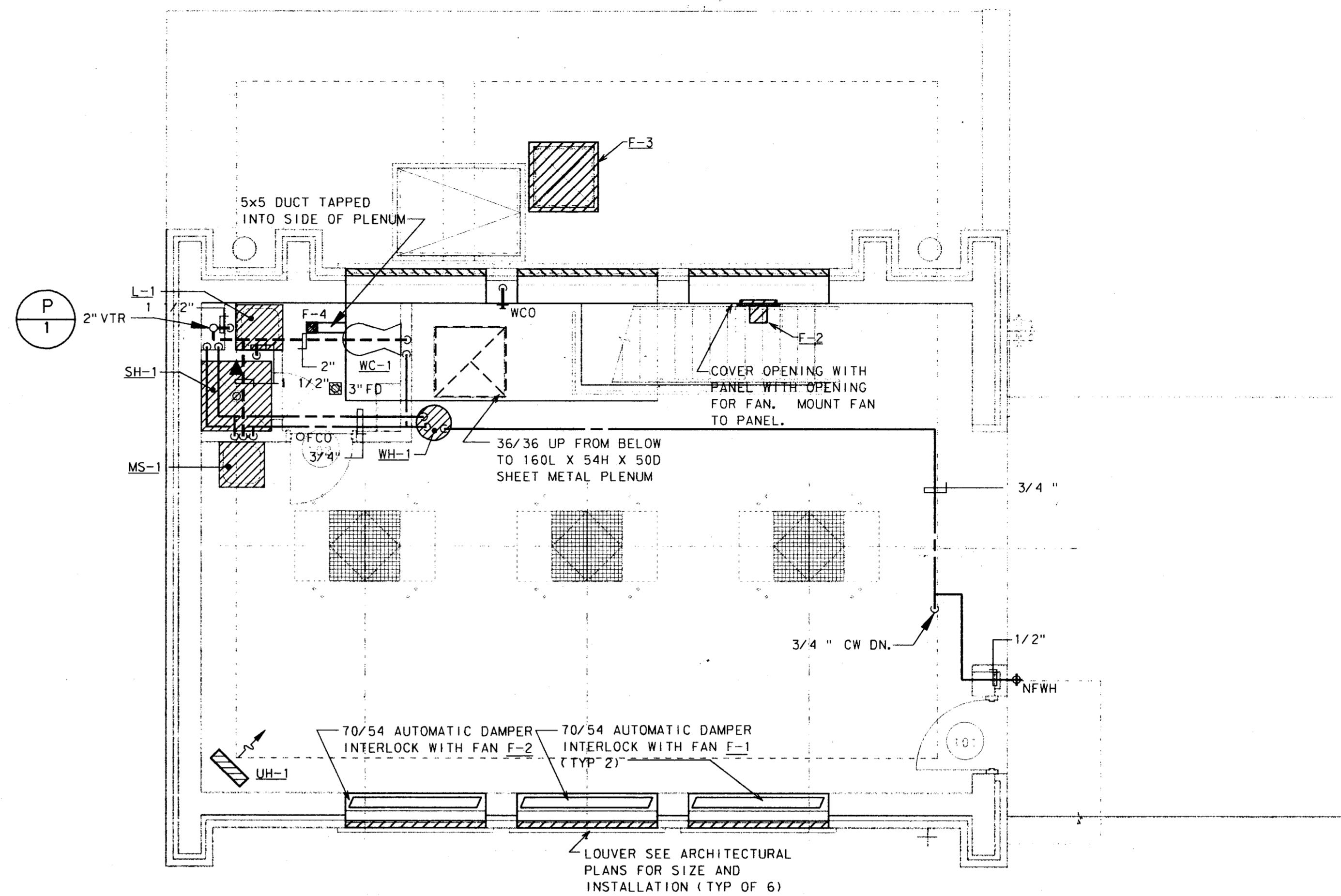


LOWER LEVEL FLOOR PLAN

1/4" = 1'-0"



A 52



GROUND LEVEL FLOOR PLAN

1/4" = 1'-0"



B 52

GENERAL NOTES

FAN SCHEDULE

MARK	F-1	F-2	F-3	F-4
SERVICE	PUMP RM.	CONTROL RM.	WET PIT	TOILET RM.
TOTAL AIR (CFM)	14,385	1,480	760	100
EXTERNAL STATIC PRESS. (IN. W.G.)	0.75	0.13	0.13	0.15
UNIT TYPE	INLINE	PROP.	ROOF EXH.	CLG. EXH.
DRIVE TYPE	BELT	BELT	BELT	DIRECT
ACCEPTABLE Lw(A) (db)	-	-	-	-
FAN (HP)	7.5	1/6	1/6	0.5 WATTS
VOLTAGE/PHASE	480/3	115/1	115/1	115/1
MANUFACTURER	GREENHECK	GREENHECK	GREENHECK	GREENHECK
MODEL NUMBER	BSO-360	SDE-16-24-B	RSF-90	SP-108
NOTES	1, 6	2, 6	3, 4, 6	5

REMARKS

- EXTERNAL STATIC PRESSURE CONSISTS OF DUCTWORK, AIR DEVICES, FILTERS.

NOTES

- DAMPERS INTERLOCKED WITH LIGHT SWITCH TO BE ON WHEN SWITCH IS TURNED ON. WHEN DAMPER FULLY OPEN, START FAN. BOTH DAMPERS MUST BE FULLY OPEN FOR FAN TO OPERATE. SEQUENCE OPERATES IN REVERSE WHEN LIGHT SWITCH "OFF".
- UPON RISE IN TEMPERATURE ABOVE THERMOSTAT SETPOINT 60°F (ADJ.) DAMPER OPENS, ON FAN ON. SEQUENCE OPERATES IN REVERSE WHEN TEMPERATURE FALLS BELOW SETPOINT.
- PROVIDE BIRDSCREEN, NO FILTER.
- FAN IS CONTINUOUS RUN.
- FAN INTERLOCKED WITH LIGHT SWITCH TO BE ON WHEN SWITCH IS TURNED ON.
- CORROSION PROOF CONSTRUCTION.

WATER HEATER (ELECTRIC) SCHEDULE

MARK	EW-H-1
SERVICE	TOILET RM.
RECOVERY @ 100°F RISE (GPH)	18.4
STORAGE CAPACITY (GAL)	40
TEMPERATURE IN/OUT (°F)	55/110
ELECTRIC INPUT (KW)	4.5
VOLTAGE/PHASE	208/1
MANUFACTURER	LOCHINVAR
MODEL NUMBER	RTJ-040-K
NOTES	
REMARKS	

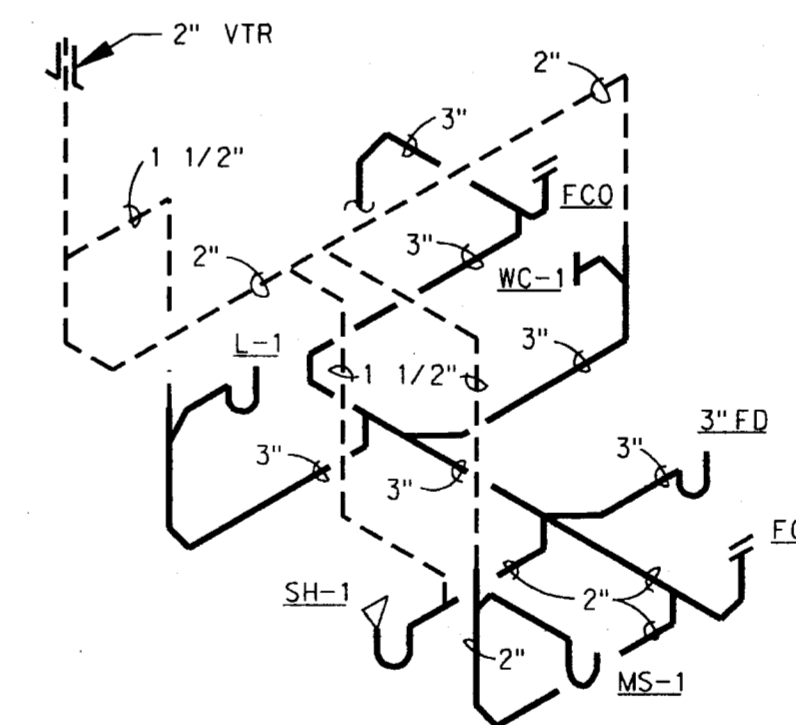
NOTES

UNIT HEATER (ELECTRIC) SCHEDULE

MARK	UH-1
TYPE	VERTICAL
CFM	1,300
THROW (FEET)	40
MOUNTING HEIGHT (FEET)	12
MINIMUM CAPACITY (BTUH)	68,300
ELECTRIC INPUT (KW)	15
FAN HP	1/10
VOLTAGE/PHASE	480/3
MANUFACTURER	TRANE
MODEL NUMBER	UHEC-203
NOTES	1

REMARKS

- UNIT MOUNTED THERMOSTAT AT 50°F (ADJ.).



SANITARY RISER DIAGRAM

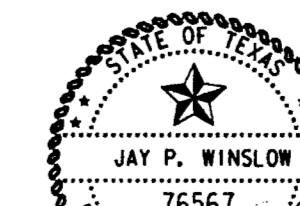
SCALE: NONE

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1	9-4-98	AS BUILT DRAWING	J.W.L.
NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LIFT STATION- HVAC FLOOR PLANS

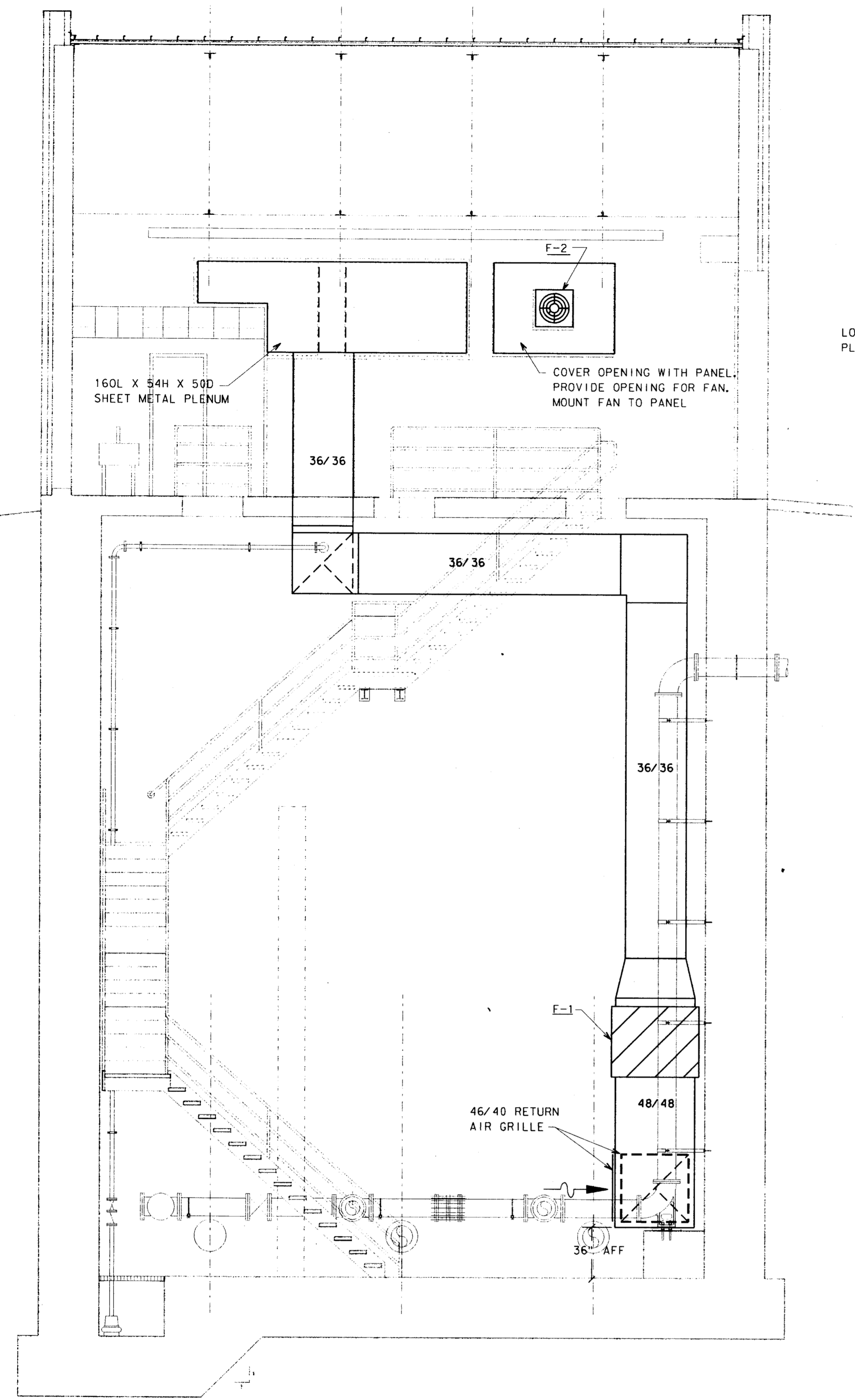
Carter Burgess

Consultants in Engineering, Architecture,
 Planning and the Environment
 CARTER & BURGESS, INC.
 7950 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961

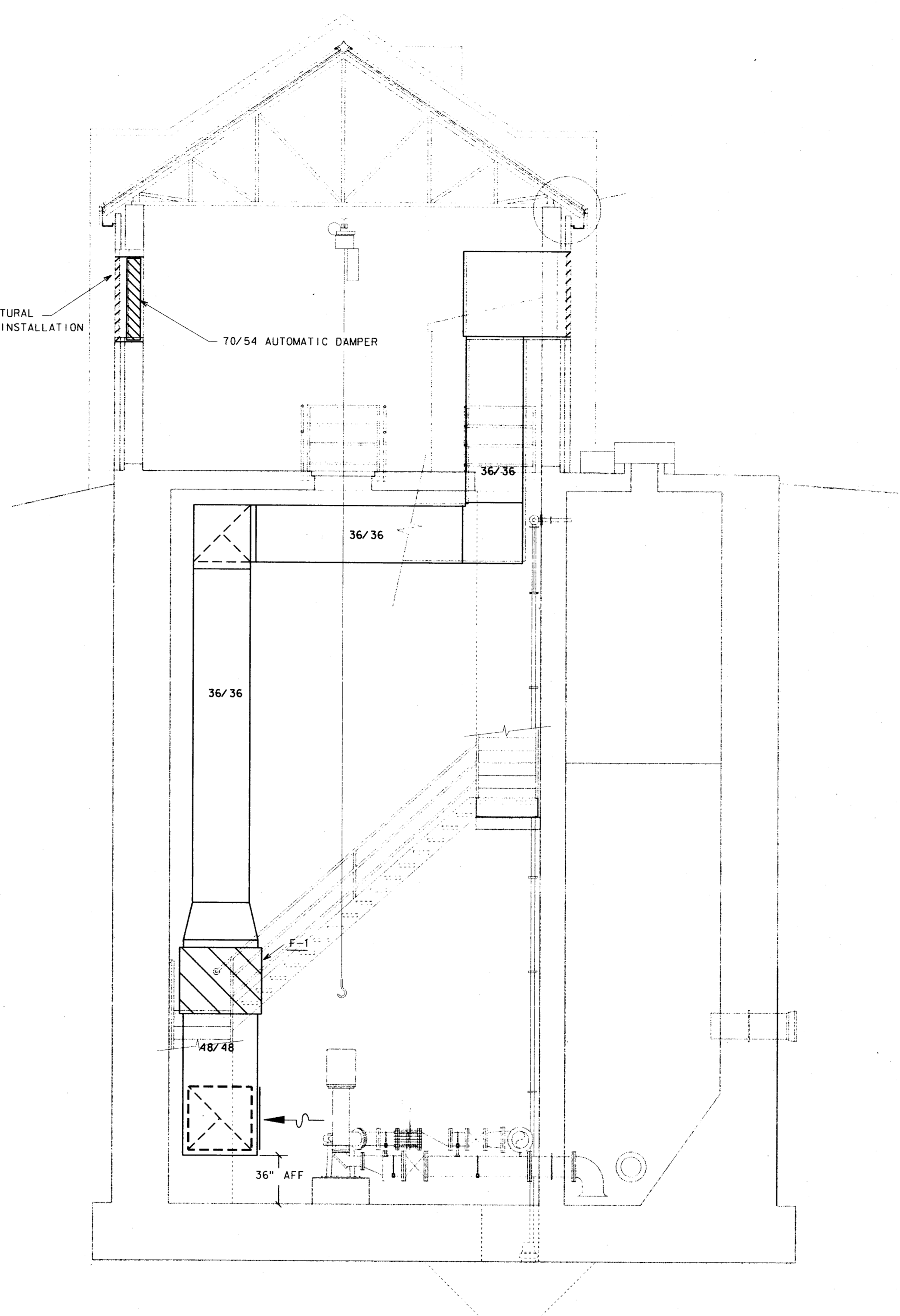


Unit	J. Grzelokowski	Scale	1/4" = 1'-0"	Date	04-05-96
Designed	J. Grzelokowski	Checked	J. Lindner	Job No.	93327601D
Drawn		Approved	J. Lindner	Sheet	52 of 63

REVISIONS
 NO. DATE DESCRIPTION
 1 9-4-98 AS BUILT DRAWING
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SECTION A
1/4" = 1' - 0"

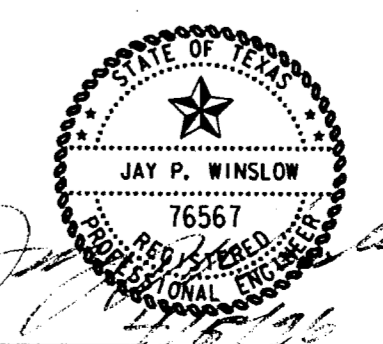


SECTION B
1/4" = 1' - 0"

4			
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2			
1	9-4-98	AS BUILT DRAWING	J. M. L.
NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LIFT STATION - HVAC SECTIONS

Carter Burgess
 Consultants in Engineering, Architecture,
 Planning and the Environment
 CARTER & BURGESS, INC.
 7950 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961



Unit	Scale	1/4" = 1' - 0"	Date	04-05-96	
Designed	J. Grzelokowski	Checked	J. Lindner	Job No.	933276010
Drawn	J. Grzelokowski	Approved	J. Lindner	Sheet	53 of 63

ABBREVIATIONS

(ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

A

A/C AIR CONDITIONING
 ABY ABOVE
 AC ALTERNATING CURRENT
 ACCU AIR COOLED CHILLER
 ADJ ADJUSTABLE
 AF AMPERE FUSE
 AFC ABOVE FINISHED CEILING
 AFF ABOVE FINISHED FLOOR
 AFG ABOVE FINISHED GRADE
 AIC AMPERE INTERRUPTING CURRENT
 AL ALUMINUM
 AMPS AMPERES
 ANSI AMERICAN NATIONAL STANDARDS
 ARCH ARCHITECT
 ARI ARCHITECT, ARCHITECTURAL
 ASHRAE REFRIGERATION AND AIR
 REFRIGERATION INSTITUTE
 AMERICAN SOCIETY OF HEATING,
 REFRIGERATION AND AIR
 CONDITIONING ENGINEERS
 ASME AMERICAN SOCIETY OF MECHANICAL
 ENGINEERS
 ASTM AMERICAN SOCIETY OF TESTING AND
 MATERIALS
 AUX AUXILIARY
 AV AIR VENT
 AWG AMERICAN WIRE GAUGE
 AWS AMERICAN WELDING SOCIETY
 AWWA AMERICAN WATER WORKS
 ASSOCIATION
 ATM AUTOMATIC TELLER MACHINE

B

BAS BUILDING AUTOMATION SYSTEM
 BD BACKDRAFT DAMPER
 BFF BELOW FINISHED FLOOR
 BFW BOILER FEED WATER
 BKR BREAKER
 BLDG BUILDING
 BDD BOTTOM OF DUCT
 BOP BOTTOM OF PIPE
 BOS BOTTOM OF STRUCTURE
 BTU BRITISH THERMAL UNIT

C

C CONDUIT
 CATV CABLE TELEVISION SYSTEM
 CCTV CLOSED CIRCUIT TELEVISION
 CFH CUBIC FEET PER HOUR
 CFM CUBIC FEET PER MINUTE
 CFS CUBIC FEET PER SECOND
 CI CAST IRON
 CIRC CIRCULATING
 CKT CIRCUIT
 CL CENTERLINE
 CLG CEILING
 CMU CONCRETE MASONRY UNIT
 CO CLEANOUT
 COL COLUMBIA
 CPVC CHLORINATED POLYVINYL CHLORIDE
 CU COPPER
 CW COLD WATER
 °C DEGREES CELSIUS
 CNT CONTACTOR

D

DB DEPTH
 DC DRY BULB
 DEG DEGREES
 DESIG DESIGNATION
 DIA DIAMETER
 DIM DIMENSION
 DISC DISCONNECT
 DN DOWN
 DPDT DOUBLE-POLE, DOUBLE-THROW
 DPST DOUBLE-POLE, SINGLE-THROW
 DS DOWNSPOUT
 DWG DRAWING
 DX DIRECT EXPANSION

E

EA EACH
 EAT ENTERING AIR TEMPERATURE
 ECC ECCENTRIC
 EDB ENTERING DRY BULB
 EF EXHAUST FAN
 EL ELEVATION
 ELEC ELECTRICAL
 ENCL ENCLOSURE
 EQUIP EQUIPMENT
 ESP EXTERNAL STATIC PRESSURE
 EWB ENTERING WET BULB
 EWC ELECTRICAL WATER COOLER
 EWT ENTERING WATER TEMPERATURE
 EXH EXHAUST
 EXIST EXISTING
 EUH ELECTRIC UNIT HEATER

F

FA FIRE ALARM
 FACP FIRE ALARM CONTROL PANEL
 FCO FLOOR CLEANOUT
 FCU FAN COIL UNIT
 FL FLOW LINE
 FLA FULL LOAD AMPS
 FLEX FLEXIBLE
 FPM FEET PER MINUTE
 FT FOOT, FEET
 FT FULL-VOLTAGE, NON-REVERSING
 FVNR DEGREES FAHRENHEIT

G

G, GND GROUND
 GA ABOVE
 GAL GALLON
 GALV GALVANIZED
 GC GENERAL CONTRACTOR
 GFI GROUND FAULT INTERRUPTER
 GFR GROUND FAULT RELAY
 GPD GALLONS PER DAY
 GPH GALLONS PER HOUR
 GPM GALLONS PER MINUTE

H

HD HEIGHT
 HOA HEAD, HUB DRAIN
 HORIZ HAND-OFF-AUTOMATIC
 HORZ HORIZONTAL
 HP HORSEPOWER
 HSTAT HUMIDISTAT
 HSTM HIGH PRESSURE STEAM
 HTG HEATING
 HTR HEATER
 HVAC HEATING, VENTILATING AND AIR
 CONDITIONING
 HW HOT WATER
 HYD HYDRANT
 HZ HERTZ

I

ID INSIDE DIAMETER
 IE INVERT ELEVATION
 IECE INSTITUTE OF ELECTRICAL AND
 ELECTRONICS ENGINEERS
 IES ILLUMINATING ENGINEERING
 SOCIETY
 IG ISOLATED GROUND
 IN INCH
 IN WC INCHES OF WATER COLUMN

J

J-BOX JUNCTION BOX

K

KMIL 1000 CIRCULAR MILS
 KV KILOVOLT
 KVA KILOVOLT-AMPS
 KW KILOWATT
 KWH KILOWATT-HOUR

L

L LENGTH
 LAT LEAVING AIR TEMPERATURE
 LB POUNDS
 LDB LEAVING DRY BULB
 LF LINEAR FEET
 LP LOW PRESSURE
 LRA LOCKED ROTOR AMPS
 LSTW LOW PRESSURE STEAM (15 PSIG)
 LTG LIGHTING
 LWB LEAVING WET BULB
 LWT LEAVING WATER TEMPERATURE

M

MAX MAXIMUM
 MBH 1000 BTU PER HOUR
 MCA MINIMUM CIRCUIT AMPACITY
 MCB MAIN CIRCUIT BREAKER
 MCC MOTOR CONTROL CENTER
 MD MOTORIZED DAMPER
 MECH MECHANICAL
 MFR MANUFACTURER
 MG MOTOR GENERATOR
 MH MANHOLE, METAL HALIDE
 MIN MINIMUM
 MLO MAIN LUGS ONLY
 MTD MOUNTED

N

N/A NOT APPLICABLE
 NC NOISE CRITERIA, NORMALLY CLOSED
 NEC NATIONAL ELECTRICAL CODE
 NEMA NATIONAL ELECTRICAL
 MANUFACTURER'S ASSOCIATION
 NFPA NATIONAL FIRE PROTECTION
 ASSOCIATION
 NIC NOT IN CONTRACT
 N.O. NORMALLY OPEN
 N.T.S. NOT TO SCALE

O

OA OUTSIDE AIR
 OBD OPPOSED BLADE DAMPER
 O.C. ON CENTER
 OD OUTSIDE DIAMETER
 OPG OPENING
 OS&Y OUTSIDE STEM AND YOKE
 OSHA OCCUPATIONAL SAFETY AND HEALTH
 ADMINISTRATION

P

PA PUBLIC ADDRESS
 PD PRESSURE DROP
 PF POWER FACTOR
 PH PHASE
 PIV POST INDICATOR VALVE
 PLUMB PLUMBING
 PNL PANEL
 PSF POUNDS PER SQUARE FOOT
 PSI POUNDS PER SQUARE INCH
 PSIA POUNDS PER SQUARE INCH ABSOLUTE
 PSIG POUNDS PER SQUARE INCH GAUGE
 PSV PRESSURE SAFETY VALVE, RELIEF
 VALVE
 PV PLUG VALVE
 PVC POLYVINYL CHLORIDE

Q

QTY QUANTITY

R

RA RETURN AIR
 RCP REFLECTED CEILING PLAN,
 REINFORCED CONCRETE PIPE
 ROOF DRAIN
 RE REFERENCE, REFER
 RECIRC RECIRCULATE
 REINF REINFORCING
 REO REQUIRED
 REV REVISION, REVISE
 RIG RIGID GALVANIZED STEEL
 RH RELATIVE HUMIDITY
 RHG REFRIGERANT HOT GAS
 RL REFRIGERANT LIQUID
 RLA RUNNING LOAD AMPS
 RM ROOM
 RPM REVOLUTIONS PER MINUTE
 RS REFRIGERANT SUCTION
 RTU ROOF TOP UNIT

S

SA SUPPLY AIR
 SD SMOKE DAMPER, STORM DRAIN
 SECT SECTION
 SF SQUARE FEET
 SHT SHEET
 SIM SIMILAR
 SMT SHEET METAL
 SMT MTL SHEET METAL AND AIR
 CONDITIIONING CONTRACTOR'S
 NATIONAL ASSOCIATION
 SP STATIC PRESSURE
 SPEC SPECIFICATION
 SQ SQUARE
 SS STAINLESS STEEL, SANITARY SEWER
 SOUND TRAP, STEAM TRAP
 STD STANDARD
 STL STEEL
 SURF SURFACE
 SUSP SUSPEND

T

TDH TOTAL DYNAMIC HEAD
 THRU THROUGH
 TP TOTAL PRESSURE
 TSP TOTAL STATIC PRESSURE
 TSTAT THERMOSTAT
 TYP TYPICAL
 TV TELEVISION
 TF TRANSFER FAN

U

U/F UNDERFLOOR
 U/G UNDERGROUND
 U/S UNDERSLAB
 UL UNDERWRITERS LABORATORIES, INC.
 UNL UNLESS OTHERWISE NOTED
 UPS UNINTERRUPTIBLE POWER SUPPLY

V

V VOLT
 VA VOLT-AMPERE
 VAC VACUUM
 VAV VARIABLE AIR VOLUME
 VCP VITRIFIED CLAY PIPE
 VD VOLUME DAMPER
 VEL VELOCITY
 VERT VERTICAL
 VTR VENT THROUGH ROOF
 VSTR VENTURE STORES, INC.

W

W WATT, WIDTH
 W/ WITH
 W/O WITHOUT
 WB WET BULB
 WC WATER GONG
 WCP WATER PRESSURE DROP
 WPD WEATHER PROOF
 WP WATER TIGHT, WEIGHT
 WH WATER HEATER

X

XFMR TRANSFORMER

ELECTRICAL SYMBOLS

(ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THE DRAWINGS)

LIGHTING

○ A INCANDESCENT OR HID LIGHTING FIXTURE, LETTER DENOTES TYPE
 ○ B WALL WASHER LIGHTING FIXTURE, LETTER DENOTES TYPE
 X EXIT SIGN, ARROWS AS INDICATED, LETTER DENOTES TYPE
 D DARKENED AREA DENOTES LIGHTED FACE
 ○ STRIP FLUORESCENT LIGHTING FIXTURE, LETTER DENOTES TYPE
 ○ LIGHT FIXTURE ON EMERGENCY OR LIFE SAFETY CIRCUIT
 ○ L LIGHTING FIXTURE, LETTER DENOTES TYPE
 ○ B WALL MOUNTED LIGHT FIXTURE, LETTER DENOTES TYPE
 ⊕ EMERGENCY LIGHTING FIXTURE WITH BATTERY PACK

SWITCHES

S SWITCH, SPST, 20A, 120/277V
 S3 SWITCH, 20A, 120/277V, "3" DENOTES DPST, "3" DENOTES THREE-WAY, "4" DENOTES FOUR-WAY
 S4 SWITCH, SPDT, CENTER OFF, MOMENTARY CONTACT
 Sx SWITCH, SPST, 20A, 120/277V, "X" DENOTES KEY SWITCH, "P" DENOTES PILOT LIGHT, "N" DENOTES NARROW MULLION SWITCH
 S0 DIMMER CONTROL SWITCH, 2000 WATT UNLESS OTHERWISE NOTED

RECEPTACLES AND OUTLETS

⊕ SIMPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V
 ⊕ DUPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V, "H" DENOTES MOUNTED HORIZONTALLY, RE+ SPECIFICATIONS
 ⊕ DUPLEX WALL RECEPTACLE ON DEDICATED CIRCUIT
 ⊕ DUPLEX WALL RECEPTACLE, "WP" DENOTES WEATHERPROOF, "CFI" DENOTES SAFETY TYPE, "GFI" DENOTES GROUND FAULT INTERRUPTER
 ⊕ FOURPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V ON DEDICATED CIRCUIT
 ⊕ FOURPLEX WALL RECEPTACLE, NEMA 5-20R, 20A, 125V ON DEDICATED CIRCUIT
 ⊕ SPECIAL RECEPTACLE, NEMA CONFIGURATION AS NOTED
 ⊕ FLOOR RECEPTACLE, "F" DENOTES FLUSH
 ⊕ TELEVISION OUTLET
 ⊕ CLOCK RECEPTACLE
 ⊕ MULTI-OUTLET SURFACE RACEWAY WITH NEMA 5-20R, 20A, 125V AT 12" ON CENTER
 ⊕ JUNCTION BOX POWER & LIGHTING, S-SECURITY SYSTEM
 ⊕ POWER/TELEPHONE/DATA POLE (FOR MODULAR FURNITURE)
 ⊕ FLOOR TELEPHONE OUTLET "F" DENOTES FLUSH
 ⊕ FLOOR DATA OUTLET "F" DENOTES FLUSH
 ⊕ FLOOR RECEPTACLE/TELEPHONE OUTLET "F" DENOTES FLUSH
 ⊕ FLOOR RECEPTACLE/DATA OUTLET "F" DENOTES FLUSH
 ⊕ TELEPHONE OUTLET STUB 3/4" CONDUIT & PULLCORD OUT 6" AFC.
 ⊕ DATA OUTLET STUB 3/4" CONDUIT AND PULLCORD OUT 6" AFC.
 ⊕ TELEPHONE & DATA OUTLET STUB 3/4" CONDUIT AND PULLCORD OUT 6" AFC.

CIRCUITING AND WIRING

— CIRCUIT CONCEALED IN WALL OR CEILING
 - - - CIRCUIT BELOW SLAB OR GRADE
 — UG — UNDERGROUND CIRCUIT/DUCTBANK
 | | | HASH MARKS INDICATE NUMBER OF CONDUCTORS (LEFT TO RIGHT: NEUTRAL/PHASE/SWITCH LEG/GROUND). NO HASH MARKS INDICATE 2#12 AND 1#12 GROUND, UNLESS OTHERWISE NOTED.
 — HOMERUN TO PANEL WITH CIRCUIT NUMBER(S) AS INDICATED.
 — CONDUIT STUB UP
 — CONDUIT STUB DOWN

ELECTRICAL EQUIPMENT

▬ DISTRIBUTION PANEL
 ▬ SWITCHBOARD OR MOTOR CONTROL CENTER ON HOUSEKEEPING PAD.
 ▬ PANELBOARD (FLUSH OR SURFACE MOUNT) AS INDICATED ON PANEL SCHEDULE.
 ▬ DRY-TYPE TRANSFORMER
 ▬ AUTOMATIC TRANSFER SWITCH
 ▬ PLYWOOD TERMINAL BOARD, TYPE AS NOTED, 4' X 8' X 3/4" UNLESS OTHERWISE NOTED
 ▬ TERMINAL CABINET, TYPE AS NOTED 24" X 48" X 3-1/2" UNLESS OTHERWISE NOTED.
 ▬ SURFACE MOUNTED WIREWAY, NEMA 1

DRAWING/DETAIL REFERENCE KEY

— REFER TO DRAWING/DETAIL NUMBER —
 RE 2/E2 SHEET NUMBER ON WHICH DETAIL IS DRAWN

MISCELLANEOUS

① DRAWING NOTE REFERENCE (NOTES BY SYMBOL)
 ⊕ THERMOSTAT
 □ INTRUSION ALARM (MAGNETIC SWITCH) DEVICE

MOUNTING HEIGHTS

(UNLESS OTHERWISE NOTED)

WALL SWITCHES—48" A.F.F. TO CENTER OF SWITCH.
 WALL RECEPTACLES:
 DUPLEX — 15" A.F.F. TO CENTER OF RECEPTACLE.
 QUADPLEX — 15" A.F.F. TO CENTER OF RECEPTACLE.
 WALL TELEPHONE/DATA OUTLETS:
 FINISHED AREAS—12" A.F.F. TO CENTER OF OUTLET.
 WALL MOUNTED — 42" A.F.F. TO CENTER OF OUTLET.
 WALL DIMMER SWITCHES—48" A.F.F. TO CENTER OF SWITCH.
 WALL MOUNTED EMERGENCY LIGHT FIXTURE—84" A.F.F. TO CENTER OF FIXTURE.
 CLOCK OUTLET—84" A.F.F. TO CENTER OF OUTLET.
 FIRE ALARM PULL STATION—48" A.F.F. TO CENTER OF STATION.
 FIRE ALARM HORN OR BELL—84" A.F.F. TO CENTER OF HORN OR BELL.

GENERAL NOTES

A. REFER TO SPECIFICATIONS FOR MATERIALS AND METHODS FOR ELECTRICAL CONSTRUCTION
 B. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR THE EXACT LOCATION OF ALL CEILING MOUNTED DEVICES.
 C. REFER TO ARCHITECTURAL INTERIOR ELEVATION DRAWINGS, WHERE THE ARCHITECT HAS DRAWN SUCH ELEVATIONS, FOR THE LOCATIONS OF ALL WALL MOUNTED DEVICES.
 D. COORDINATE EXACT LOCATION OF ALL LIGHTING FIXTURES IN MECHANICAL / ELECTRICAL SPACES WITH EQUIPMENT, DUCTWORK AND PIPING.
 E. PROVIDE 2#12, 1#12G, IN A MINIMUM 1/2" C., UNLESS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS. PROVIDE 4#12, 1#12 GND, FOR ALL 3 CIRCUIT HOMERUNS.
 F. MINIMUM SIZE CONDUIT FOR HOMERUNS IS 3/4" C.
 G. COORDINATE ALL SLAB PENETRATIONS AND SLEEVES PRIOR TO EACH CONCRETE POUR.
 H. PROVIDE ACCESS DOORS IN WALLS AND CEILING WHERE ACCESS IS REQUIRED TO CONCEALED ELECTRICAL BOXES AND DEVICES.
 I. MAINTAIN ALL NEC. REQUIRED CLEARANCES. NOTIFY A/E OF ANY DISCREPANCIES PRIOR TO INSTALLATION.
LIGHTING FIXTURE CIRCUITING NOTES
 A. THE LIGHTING PLANS INDICATE SWITCHING AND BRANCH CIRCUIT NUMBERS FOR ALL LIGHTING FIXTURES. LOWER CASE LETTERS AT SWITCHES AND LIGHT FIXTURES INDICATE SWITCHING WHERE THE CONTROL PATTERN IS NOT OBVIOUS. PROVIDE BRANCH CIRCUIT WIRING IN A RACEWAY TO ALL RIGIDLY ATTACHED LIGHT FIXTURES AND TO JUNCTION BOXES FOR ALL LAY-IN LIGHT FIXTURES, AS REQUIRED TO PROVIDE SWITCHING AND CIRCUITING AS SHOWN ON THE DRAWINGS. RE+ SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
 B. BRANCH CIRCUIT HOMERUNS SHALL BE LIMITED TO A MAXIMUM OF THREE PHASE CONDUCTORS (ON DIFFERENT PHASES), ONE NEUTRAL CONDUCTOR AND ONE GROUND CONDUCTOR, AND SHALL BE INSTALLED IN CONDUIT. CIRCUITS HAVING DIMMERS SHALL HAVE INDIVIDUAL NEUTRALS FOR EACH PHASE WIRE.

PANEL DESIGNATIONS (NEW)

H2A "H" DENOTES VOLTAGE — "H"—480Y/277V, "L"—208Y/120V
 H2EA "2" DENOTES FLOOR WHERE PANEL IS LOCATED (OMITTED IF SINGLE STORY)
 "E" DENOTES SYSTEM TYPE — BLANK = NORMAL POWER, E= EMERGENCY POWER
 "A" DENOTES PANEL SEQUENCE

MOTORS AND CONTROLS

⊕ SINGLE OR THREE PHASE MOTOR (NUMBER INSIDE SYMBOL CAN INDICATE HORSEPOWER)
 ⊕ EDH ELECTRIC DUCT HEATER
 ⊕ DISCONNECT (SAFETY) SWITCH "200/3/150" DENOTES AMPERES/POLE/FUSE, "NF" DENOTES NON-FUSED
 ⊕ MOTOR STARTER, NEMA SIZE AS NOTED
 ⊕ COMBINATION DISCONNECT (SAFETY) SWITCH AND MOTOR STARTER, "30/3/15/1" DENOTES AMPERES/POLES/ FUSE (OR BREAKER)/ NEMA STARTER SIZE, "NF" DENOTES NON-FUSED.
 ⊕ MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
 ⊕ LIGHTING CONTACTOR
 ⊕ PHOTOCELL
 ⊕ PUSH BUTTON STATION
 ⊕ DOOR CONTACT SWITCH
 ⊕ TIME CLOCK

SITE

EXISTING	EXISTING TO BE REMOVED	NEW	DESCRIPTION
⊕	⊕	⊕	PAD MOUNTED TRANSFORMER NUMBER INDICATES KVA RATING
⊕	⊕	⊕	AREA LIGHT POLE & BRACKET ORIENTATION SHOWN, LETTER DENOTES TYPE
⊕	⊕	⊕	UNDERGROUND PRIMARY
⊕	⊕	⊕	UNDERGROUND SECONDARY 480Y/277V, 3PH, 4W
⊕	⊕	⊕	UNDERGROUND TELEPHONE

UNIT

Scale: 1" = 10'

Date: 04-05-96

Designed: J. Webb Checked: J. Lindner Job No.: 933276010

Drawn: J. Webb Approved: J. Lindner Sheet: 54 of 63

4		
3		
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1	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION
		APPROV.

TOWN OF ADDISON, TEXAS

MIDWAY/BELTLINE SANITARY SEWER

PHASE II

LIFT STATION

ELECTRICAL SYMBOLS & ABBREVIATIONS

Carter Burgess

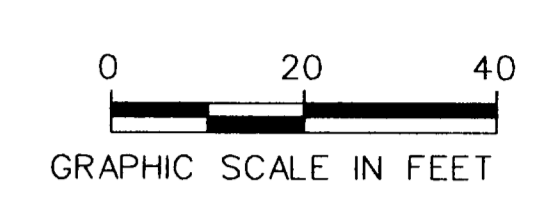
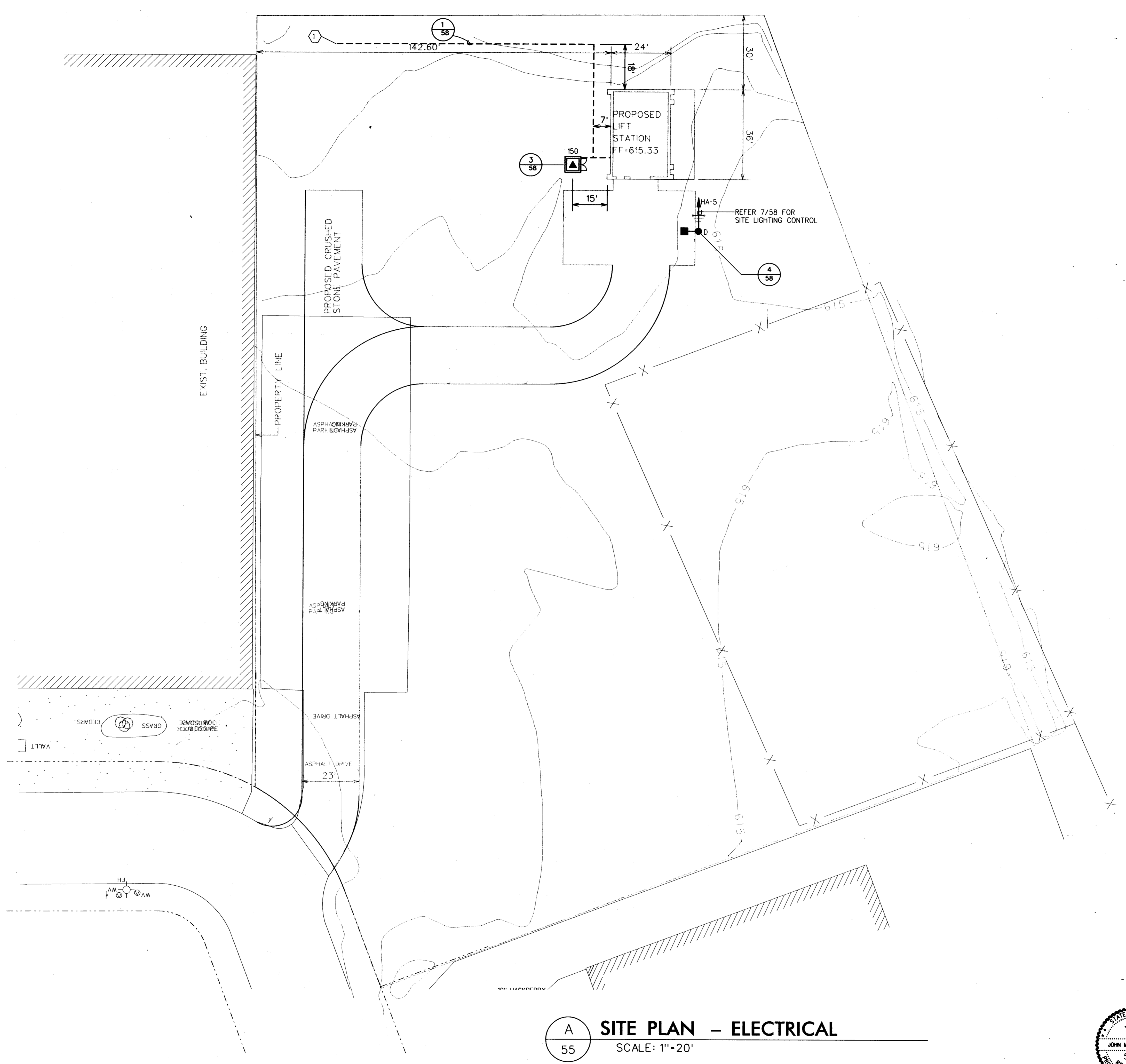
Consultants in Engineering, Architecture, Planning and the Environment

CARTER & BURGESS, INC.
 7950 EMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4961

REGISTERED PROFESSIONAL ENGINEER
 RICHARD S. POWER
 46183

REVISIONS
NO. DATE DESCRIPTION
1 9/4/98 AS BUILT DRAWINGS
2
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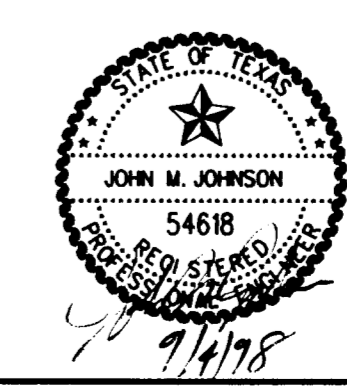
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GENERAL NOTES

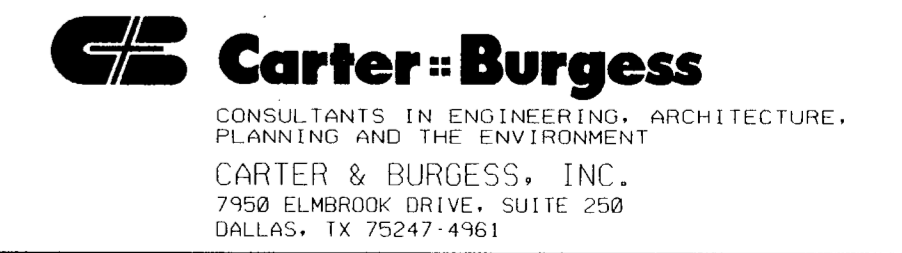
1 VERIFY LOCATION OF TU ELECTRIC PRIMARY DIP POLE PRIOR TO INSTALLATION OF UNDERGROUND PRIMARY DUCT BANK. TWO 4"Ø (ONE ACTIVE, ONE SPARE).
TU REPRESENTATIVE - JOEL PORTER (214) 888-1313

A SITE PLAN - ELECTRICAL
55 SCALE: 1"=20'



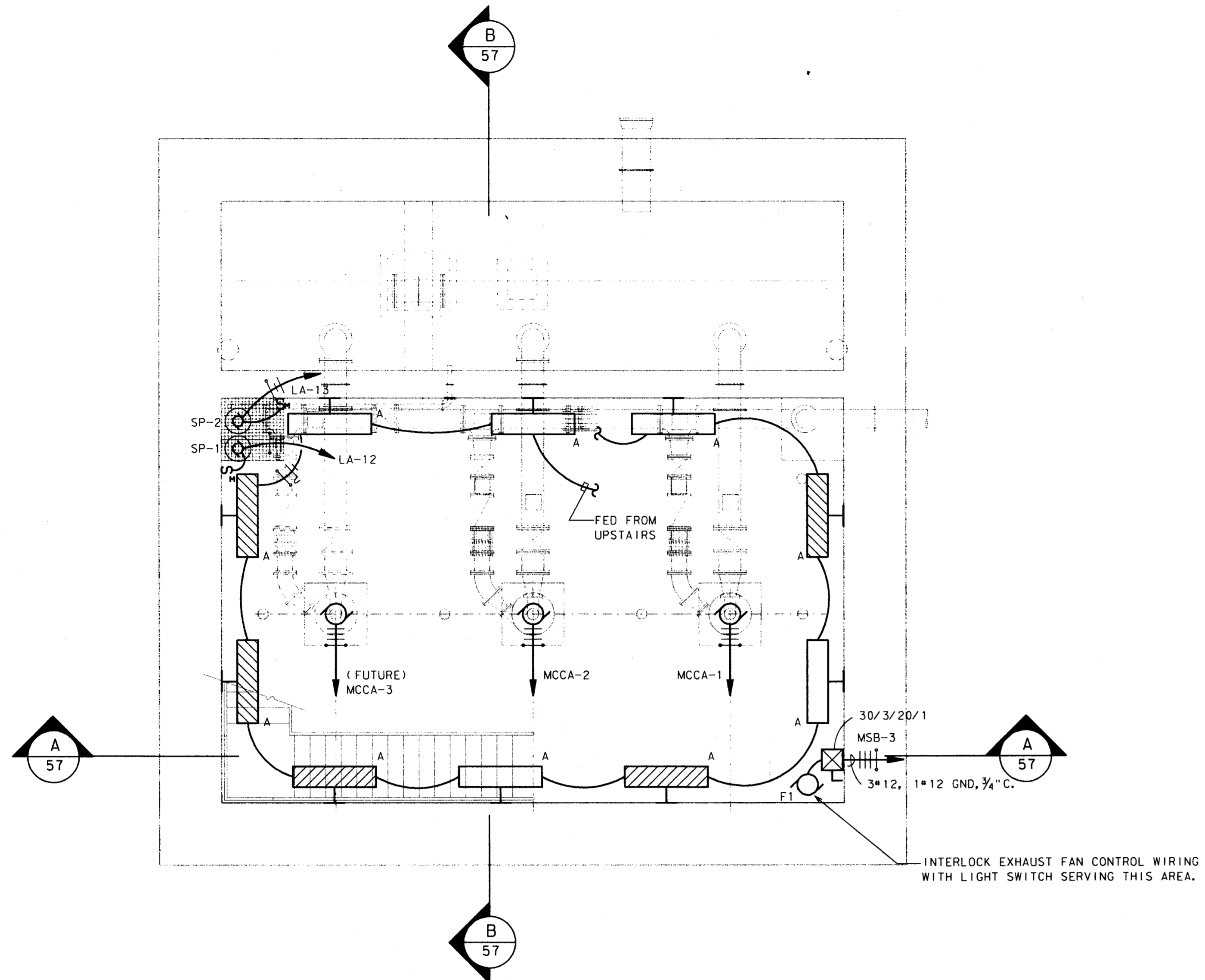
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1	9/4/98	AS BUILT DRAWINGS	
NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS
MIDWAY/BELTLINE SANITARY SEWER
PHASE II
LIFT STATION
ELECTRICAL SITE PLAN

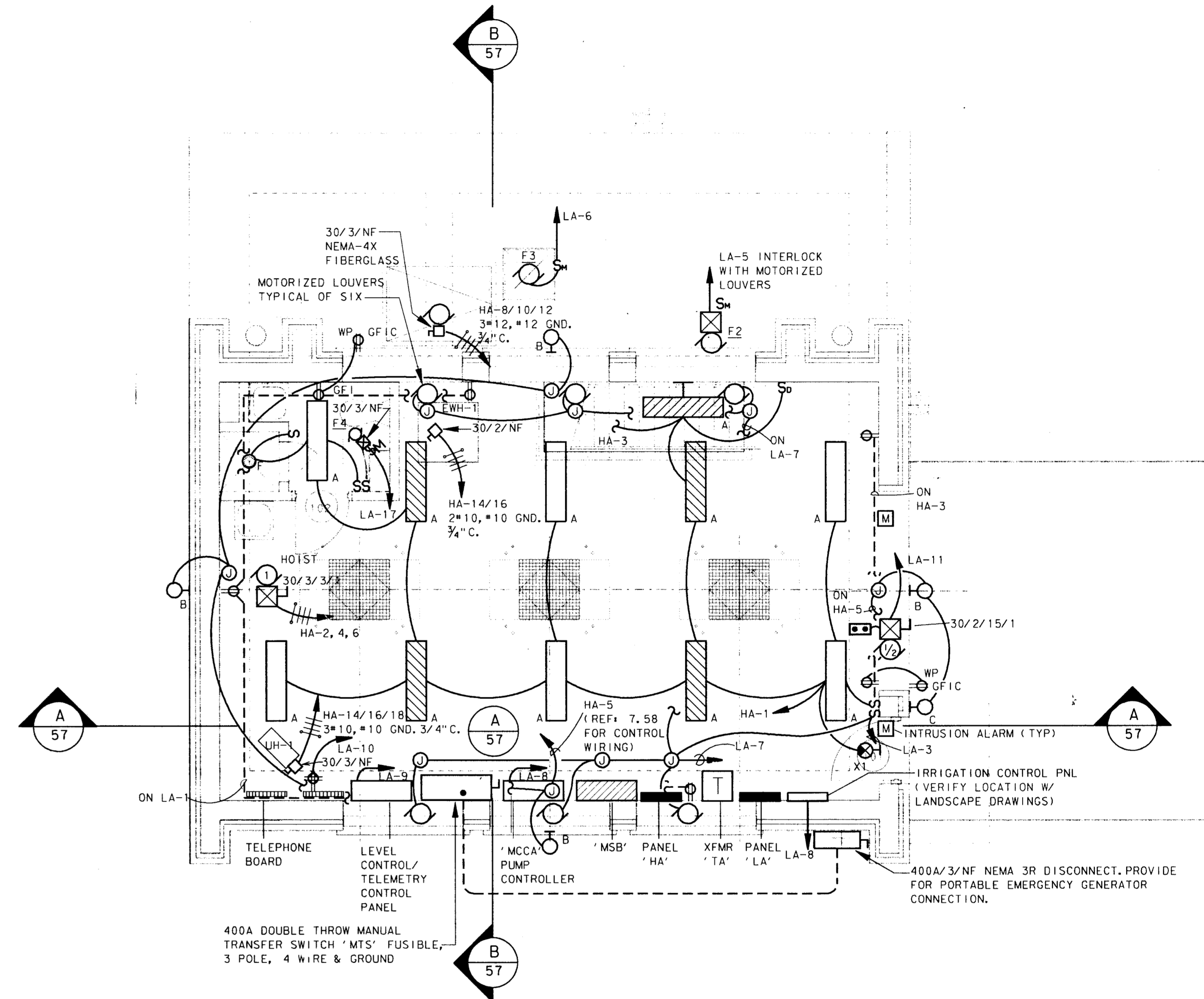


Unit	Scale: Horiz. 1"=20'	Date	04-05-96				
Designed	Checked	Job No.	9332760ID				
Drawn	J. WEBB	Approved	J. Lindner	Sheet	55	of	63

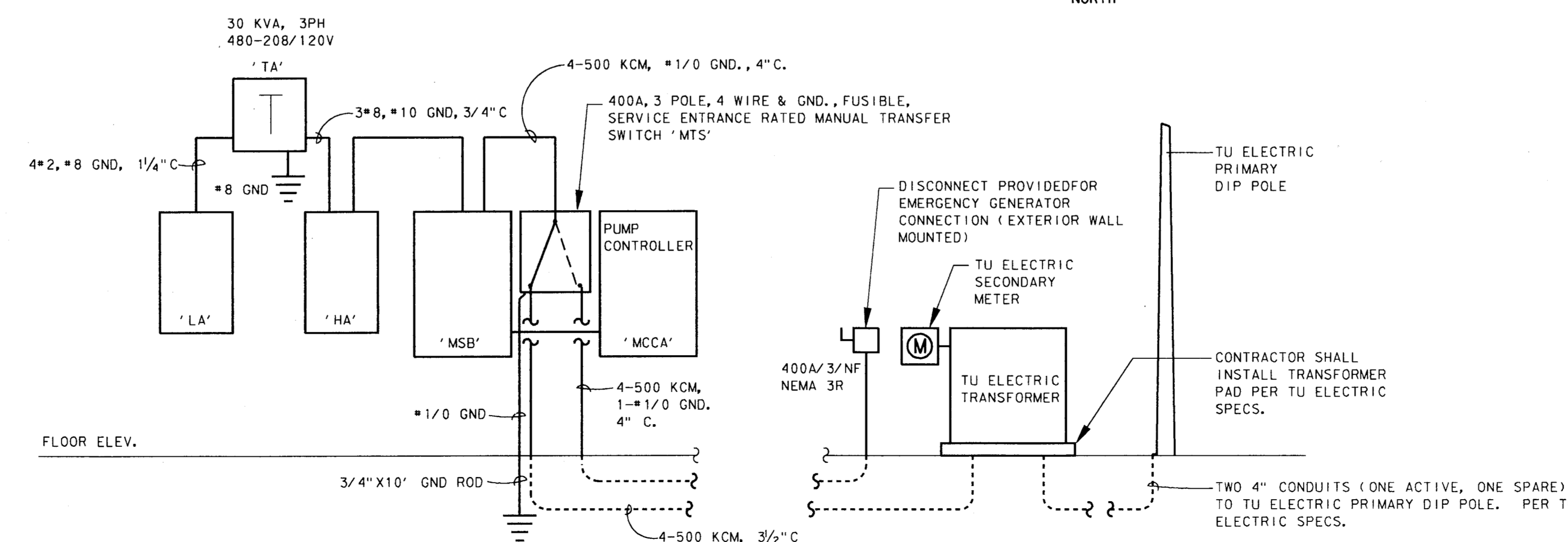
PROJECT NO. 93327601D
 SHEET NO. 56 OF 63
 DATE 04-05-96
 DRAWN BY J. WEBB
 CHECKED BY J. LINDNER
 APPROVED BY J. LINDNER
 PROJECT TITLE: MIDWAY/BELTLINE SANITARY SEWER PHASE II
 LIFT STATION ELECTRICAL FLOOR PLAN
 CONTRACTOR: RICHARD S. POWER
 7950 ELMBROOK DRIVE, SUITE 250
 DALLAS, TX 75247-4960



LOWER LEVEL LIGHTING/POWER
 SCALE: 1/4" = 1'-0"
 NORTH

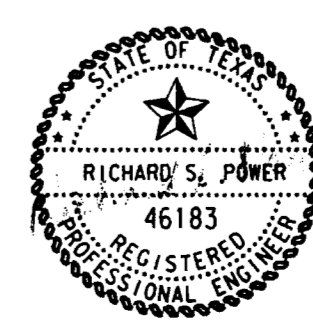


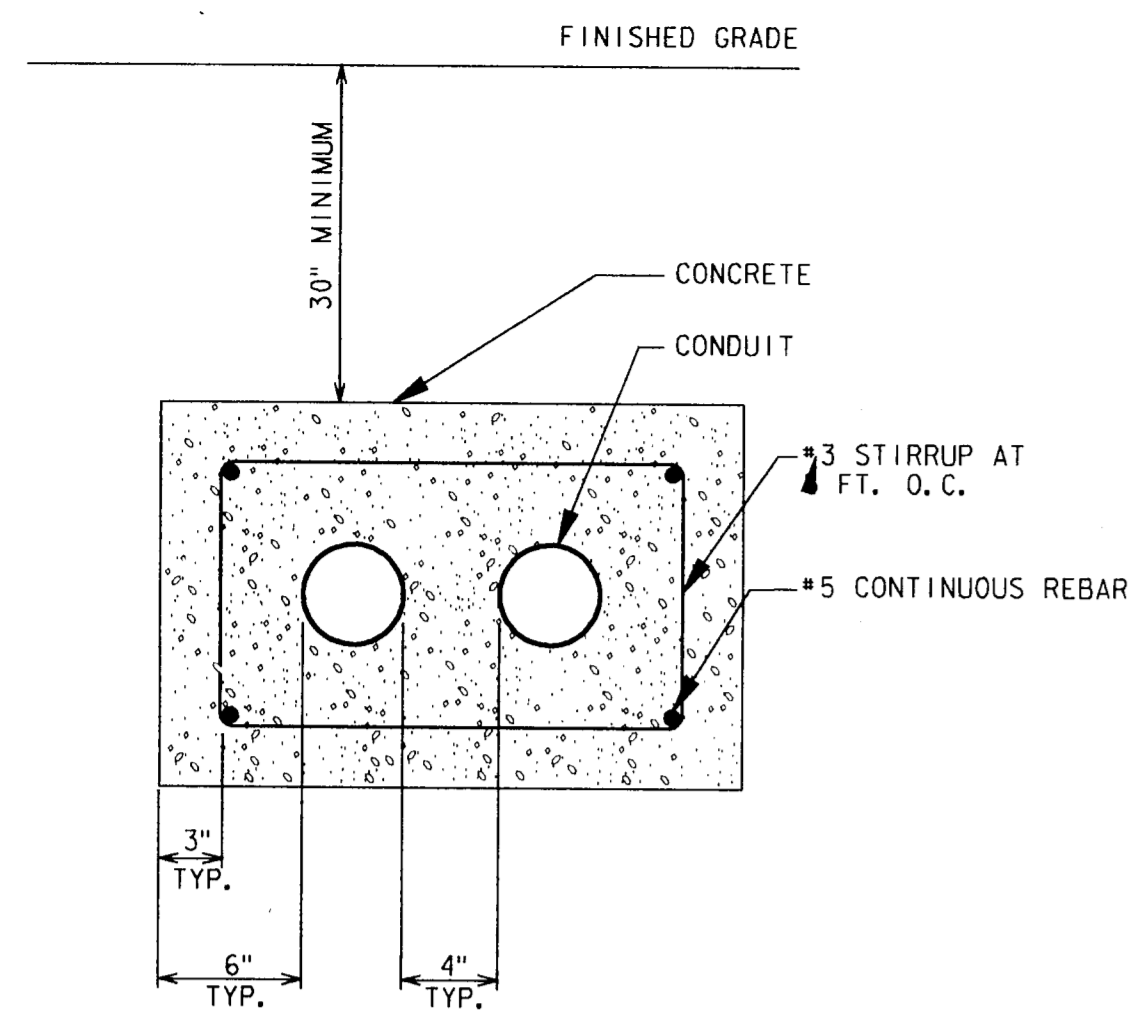
GROUND LEVEL LIGHTING/POWER
 SCALE: 1/4" = 1'-0"
 NORTH



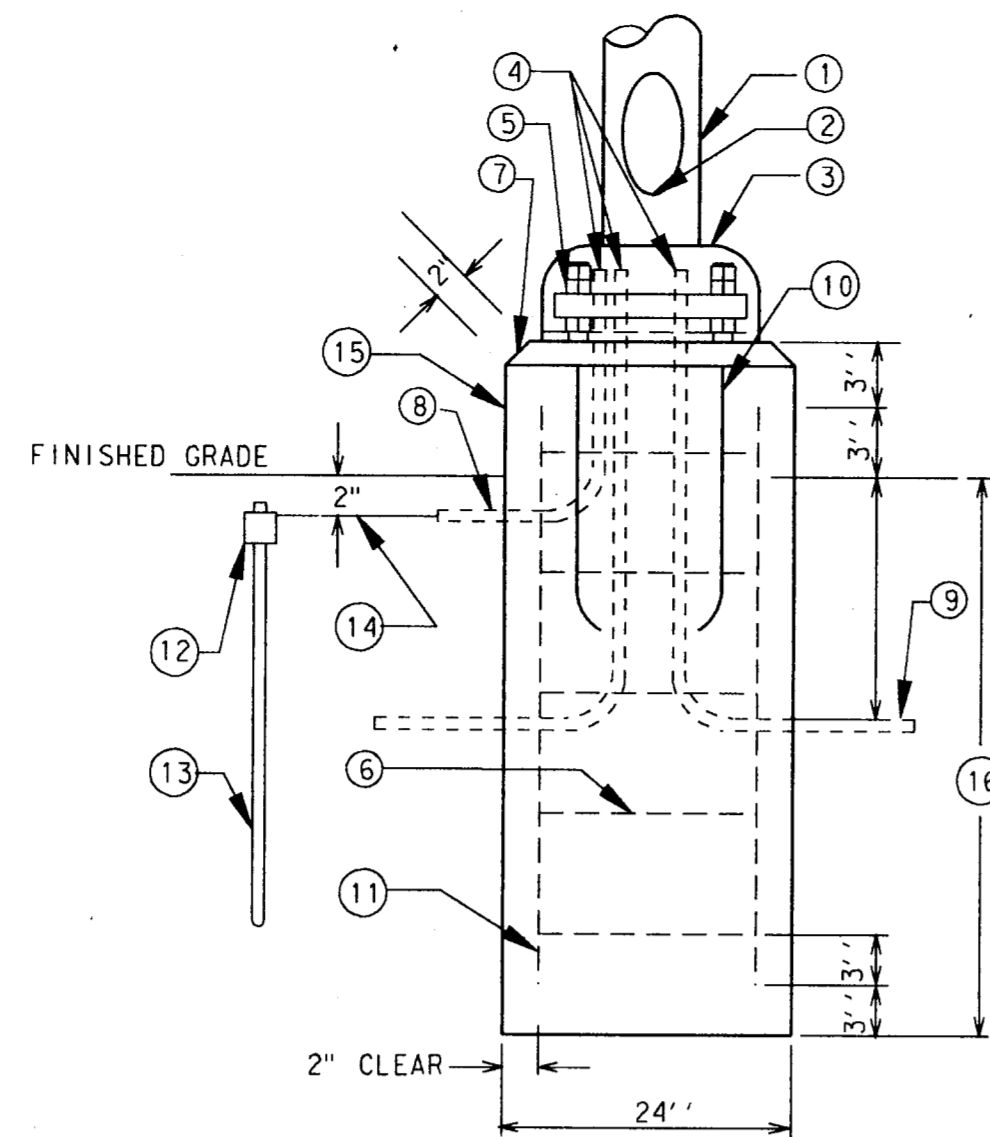
ELECTRICAL RISER DIAGRAM
 SCALE: NO SCALE

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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LIFT STATION ELECTRICAL FLOOR PLAN			
Carter Burgess			
Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7950 ELMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4960			
Unit	Scale	Date	04-05-96
Designed	J. Webb	Checked	J. Lindner
Drawn	J. Webb	Approved	J. Lindner
		Job No.	93327601D
		Sheet	56 of 63





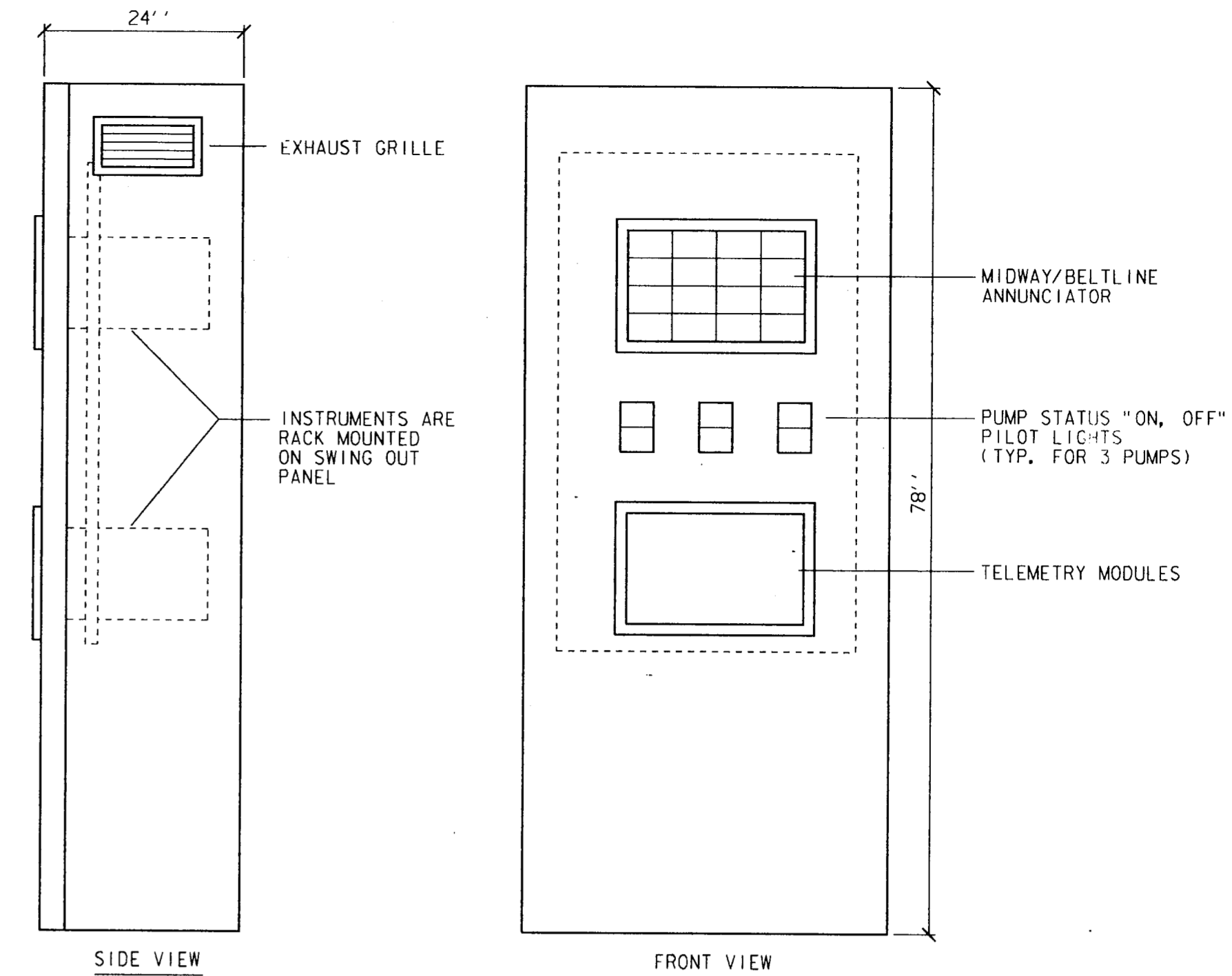
1 2E4 DUCT BANK
SCALE: NO SCALE



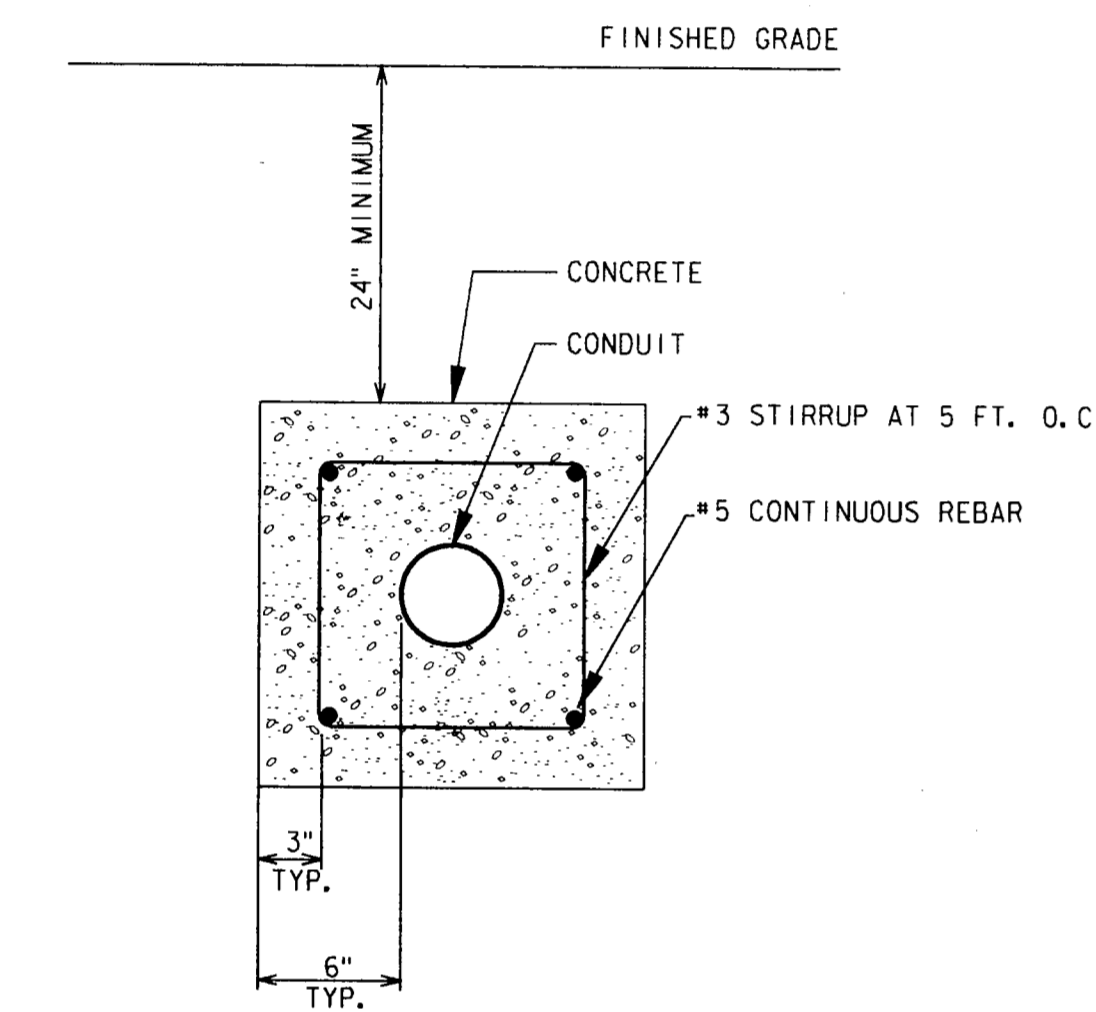
4 POLE BASE DETAIL
SCALE: NO SCALE

NOTES BY SYMBOL ○

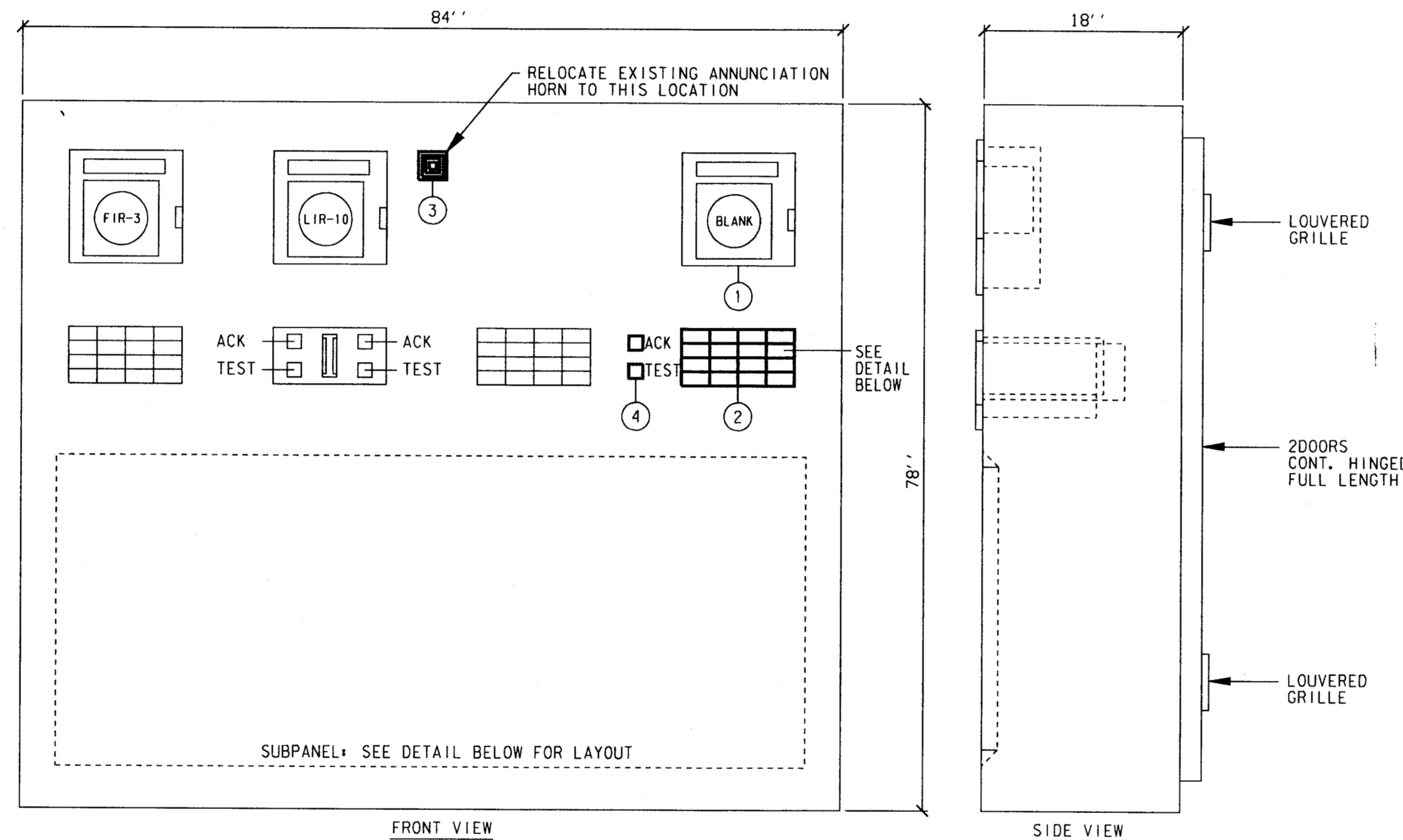
1. LIGHTING STANDARD.
2. HANDHOLE: PROVIDE INTERIOR GROUNDING LUG ACCESSIBLE FROM OPENING. PROVIDE STAINLESS STEEL COVER WITH STAINLESS STEEL SCREWS. BASE COVER: MATCH MATERIAL OF POLE, EXCEPT WHERE POLE IS CONCRETE, BASE COVER SHALL BE STAINLESS STEEL.
3. CONNECT CONDUITS TO GROUNDING LUG AND GROUNDING CONDUCTOR TO GROUND ROD. PROVIDE BOTTOM NUT FOR LEVELING AND DOUBLE NUTS ON TOP.
4. NO. 4 STEEL REINFORCING TIES ON 12" CENTERS.
5. CHAMFER EDGES ON BASE.
6. 1" RIGID GALVANIZED STEEL CONDUIT TO 12" BEYOND EDGE OF CONCRETE BASE.
7. GALVANIZED STEEL ANCHOR BOLTS, FURNISHED WITH POLE, AS REQUIRED BY MANUFACTURER.
8. EIGHT NO. 4 STEEL REINFORCING RODS.
9. EXOTHERMIC WELD.
10. 3/4" X 10'-0" COPPER CLAD GROUND ROD.
11. NO. 6 BARE STRANDED COPPER CLAD GROUND WIRE CONNECT TO GROUND ROD, CONDUITS AND GROUNDING LUG.
12. CONCRETE BASE SHALL BE HAND RUBBED TO REMOVE ALL IRREGULARITIES AND PROVIDE SMOOTH FINISH. PAINT AS DIRECTED BY ARCHITECT.
13. REFER TO SPECIFICATIONS FOR DIMENSIONS.



6 LEVEL CONTROL/TELEMETRY PANEL DETAIL
SCALE: NO SCALE



2 1E2 DUCT BANK
SCALE: NO SCALE



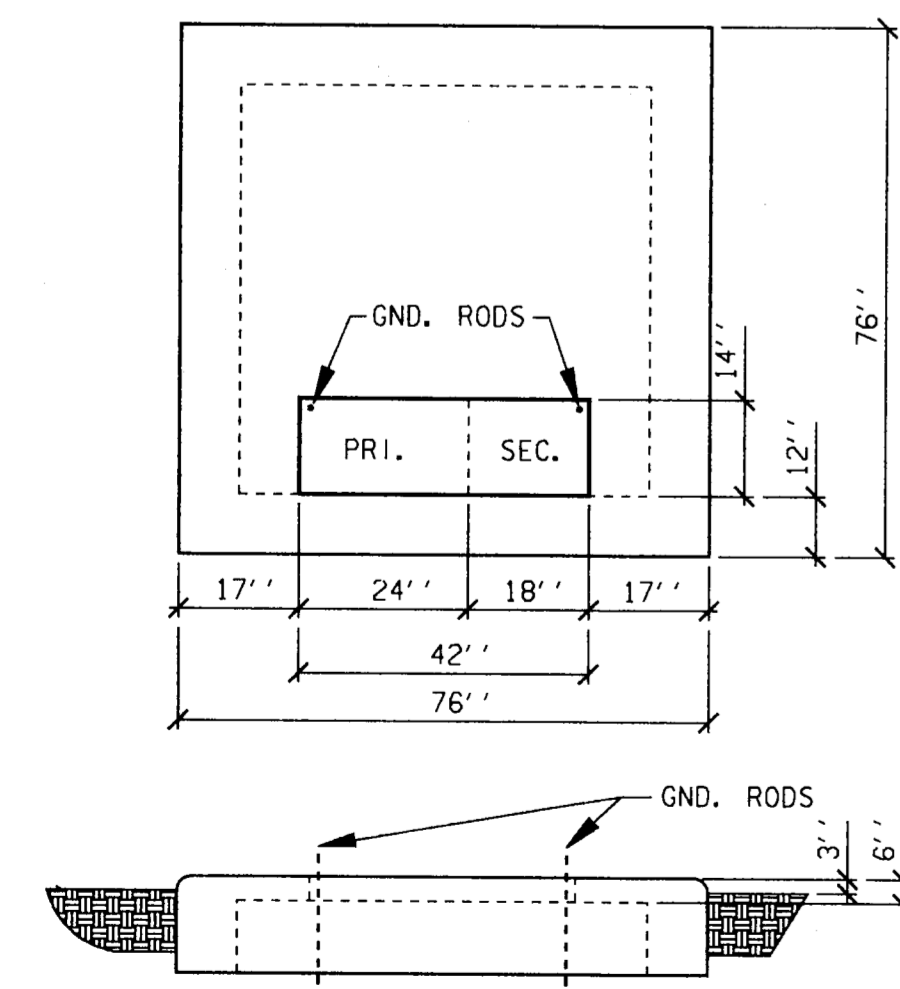
7 SITE LIGHTING CONTROL SCHEMATIC
SCALE: NO SCALE

NOTES BY SYMBOL ○

1. ADD NEW CHESSELL, MODEL 390, RECORDER IN EXISTING BLANK LOCATION. PROVIDE NEW ANALOG TONE RECEIVER - DAO MODEL DAR 36-1X AND DR 38.
2. ADD NEW MIDWAY/BELTLINE LIFT STATION ANNUNCIATOR IN LOCATION UTILIZED BY EXISTING ANNUNCIATOR HORN. SEE DETAIL BELOW.
3. NEW LOCATION OF EXISTING ANNUNCIATOR HORN.
4. NEW ANNUNCIATOR TEST PUSHBUTTON / ACK TO MATCH EXISTING.

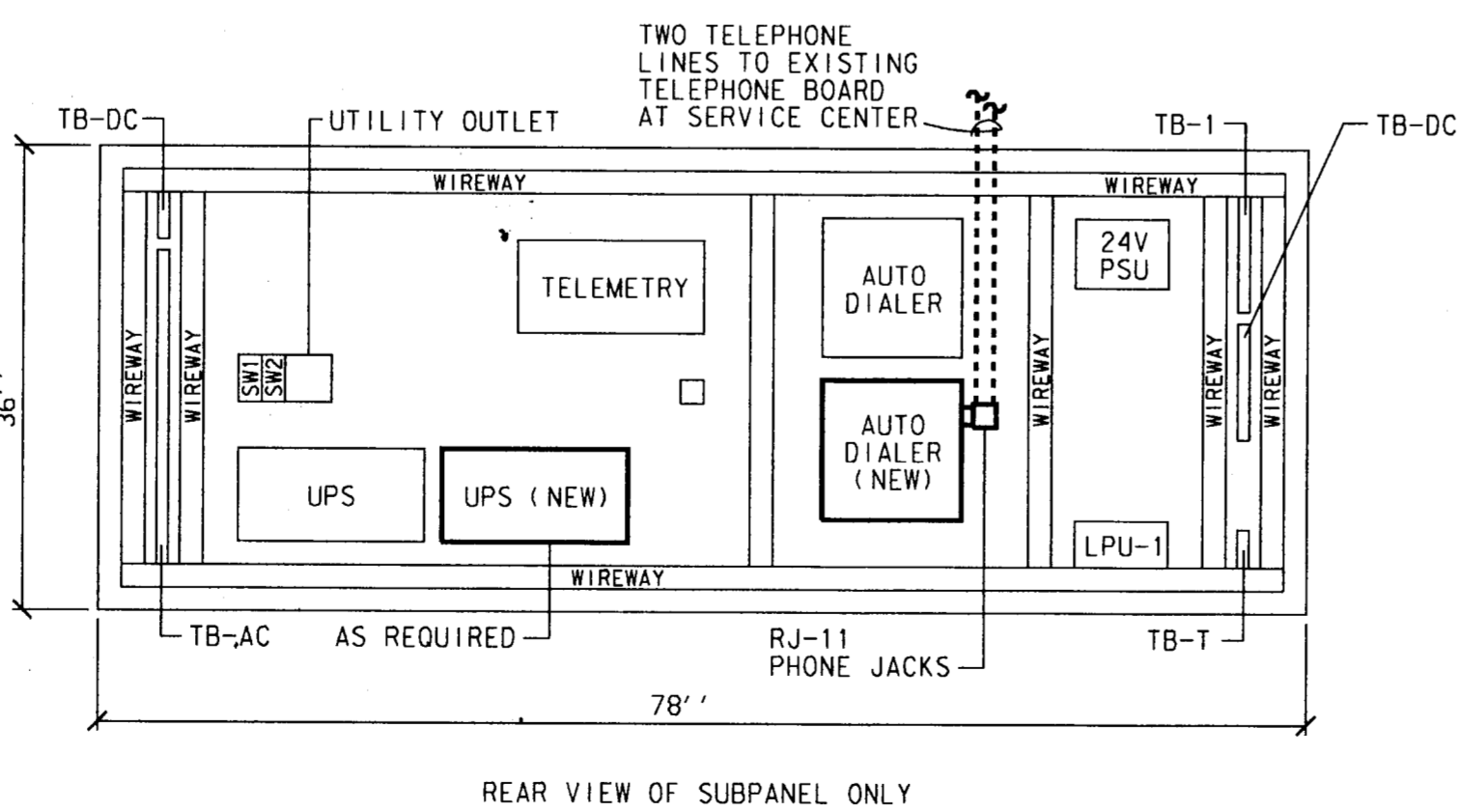
PUMP #1 FAILURE	HIGH LEVEL ALARM	POWER FAILURE	SPARE (ALARM MOD)
PUMP #2 FAILURE	LOW LEVEL ALARM	PHASE LOSS	MIDWAY/BELTLINE L. S. INTRUSION
FUTURE-PUMP #3 FAILURE	DRY WELL HIGH LEVEL	TELEMETRY FAIL	MIDWAY/BELTLINE L. S. FIRE
SPARE (ALARM MOD)	SPARE (ALARM MOD)	SPARE (ALARM MOD)	SPARE (ALARM MOD)

MIDWAY/BELTLINE LIFT STATION ANNUNCIATION DETAIL



3 PADMOUNT TRANSFORMER PAD DETAIL
SCALE: NO SCALE

CONTRACTOR CONFIRM FINAL TRANSFORMER SIZE AND REQUIREMENTS WITH TU ELECTRIC PRIOR TO INSTALLATION AND CONSTRUCTION. TU ELECTRIC REPRESENTATIVE (JOEL PORTER, 214-888-1313)



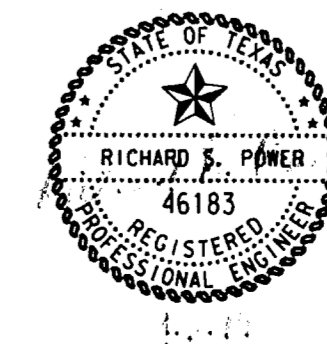
5 MODIFICATIONS TO EXISTING SERVICE CENTER MONITOR PANEL (GARYCO)
SCALE: NO SCALE

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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS
MIDWAY/BELTLINE SANITARY SEWER PHASE II
LIFT STATION ELECTRICAL DETAILS

Carter Burgess
Consultants in Engineering, Architecture, Planning and the Environment

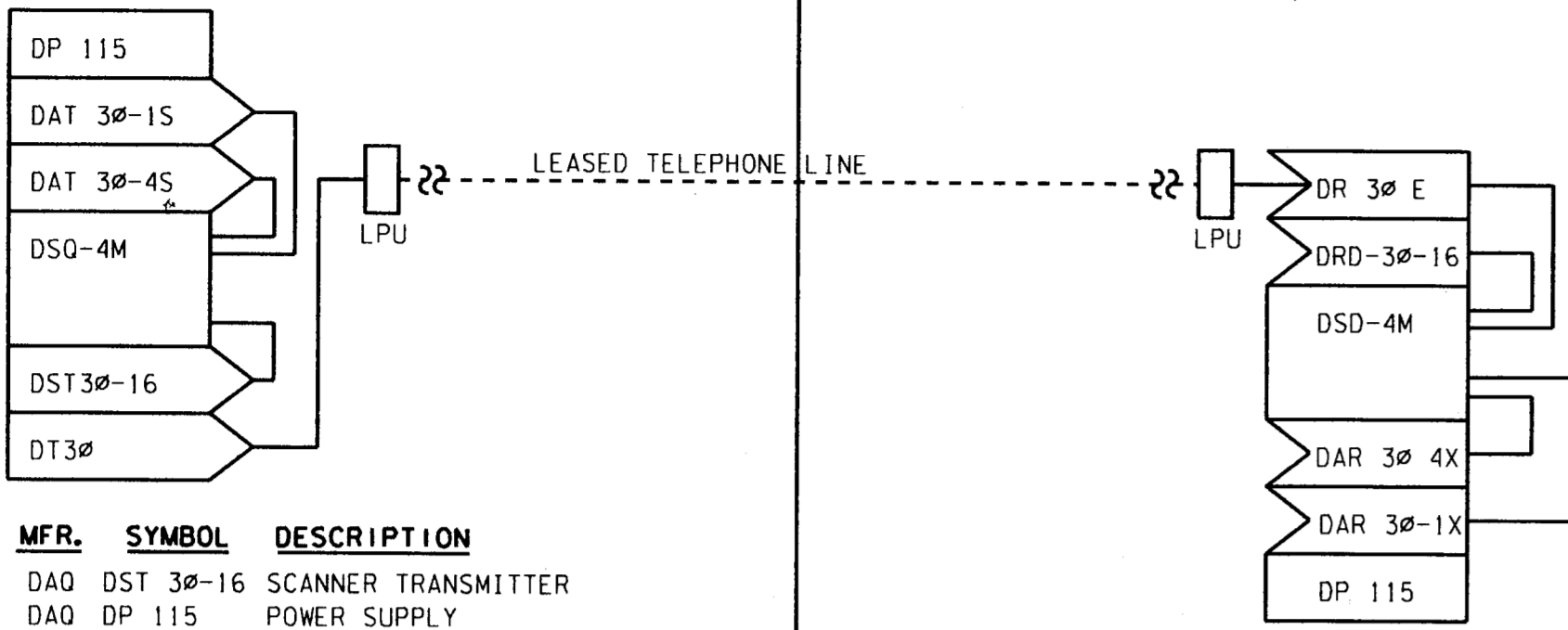
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7950 EMBROOK DRIVE, SUITE 250
DALLAS, TX 75247-4961



Unit#	Scale	Date	04-05-96
Designed	J. Webb	Checked	J. Lindner
Drawn	J. Webb	Approved	J. Lindner
Job No.	93327601D	Sheet	58 of 63

MIDWAY/BELTLINE LIFT STATION
(KELLYWAY CIRCLE)

SERVICE CENTER
(WESTGROVE)

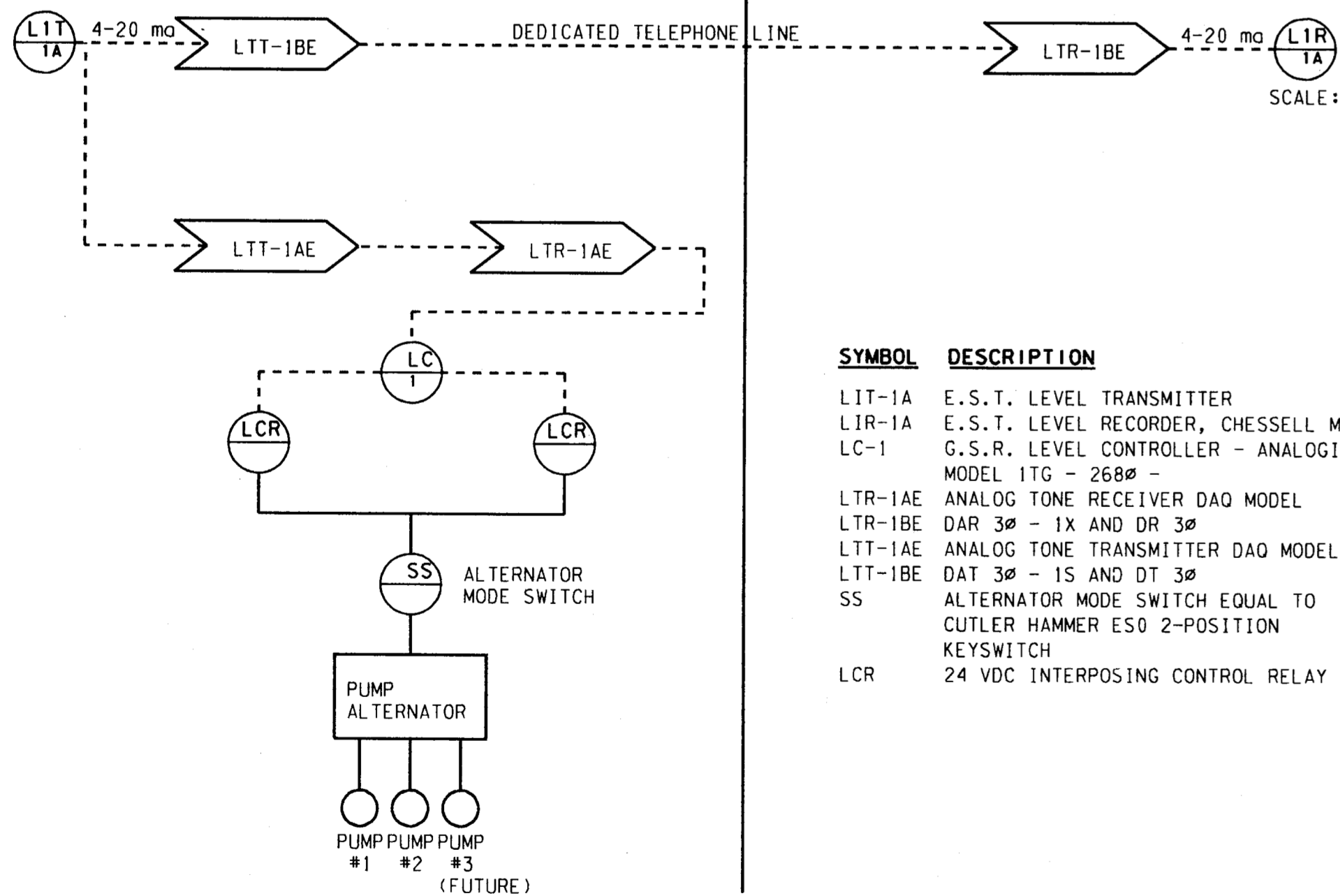


MFR.	SYMBOL	DESCRIPTION
DAQ	DST 30-16	SCANNER TRANSMITTER
DAQ	DP 115	POWER SUPPLY
DAQ	DT 30	FSK TRANSMITTER
DAQ	DR 30	FSK RECEIVER
DAQ	DAT 30-1S	ANALOG TRANSMITTER
DAQ	DAT 30-4S	ANALOG TRANSMITTER
DAQ	DAR 30-1X	ANALOG RECEIVER
DAQ	DAR 30-4X	ANALOG RECEIVER
DAQ	DSD-4M	SEQUENCER MODULE
DAQ	DSD-4M	SEQUENCER MODULE
DAQ	LPU	LINE ISOLATION/LINE SURGE PROTECTION UNIT
DAQ	DX11	MOUNTING RACK

1 TELEMETRY DISTRIBUTION DIAGRAM
SCALE: NO SCALE

MIDWAY/BELTLINE LIFT STATION
(KELLYWAY CIRCLE)

SERVICE CENTER
(WESTGROVE)



SYMBOL	DESCRIPTION
LIT-1A	E.S.T. LEVEL TRANSMITTER
LIR-1A	E.S.T. LEVEL RECORDER, CHESSCELL MODEL 390
LC-1	G.S.R. LEVEL CONTROLLER - ANALOGIC MODEL 170 - 2680
LTR-1AE	ANALOG TONE RECEIVER DAO MODEL
LTR-1BE	DAR 30 - 1X AND DR 30
LTT-1AE	ANALOG TONE TRANSMITTER DAO MODEL
LTT-1BE	DAT 30 - 1S AND DT 30
SS	ALTERNATOR MODE SWITCH EQUAL TO CUTLER HAMMER ESO 2-POSITION KEYSWITCH
LCR	24 VDC INTERPOSING CONTROL RELAY

2 LEVEL LOOP SCHEMATIC
SCALE: NO SCALE

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER/DESCRIPTION	VOLTAGE	LAMPS		MOUNTING	REMARKS
			NO.	TYPE		
A	HUBBELL EWL 042R-TP DR-E METALUX VT240DR-LE3-WL-WR LITHONIA DMW-240ART-PCS TAMPERPROOF, WATERPROOF FLUORESCENT, GASKETED	277	2	F40/CW	SURFACE WALL OR CLG.	EMERG. BATTERY PACK ON FIXTURES AS INDICATED
B	HOLOPHANE WL3K-250HP-27-HP HPS WALL PACK, DIE CAST ALUMINUM HOUSING	277	1	250W HHPs MOG, CLEAR	SURFACE WALL	
C	LITHONIA TWL-50S-277-SF HPS WALL MTD. BRACKET, DIE CAST HOUSING	277	1	50W 568 CLEAR	SURFACE WALL	
D	LITHONIA KAD 400S R3 277 SP04 SF PE7 HPS CUT-OFF LUMINAIRE, PHOTO CONTROL, FUSED	277	1	400W HPS CLEAR	30' SQ STEEL POLE	
E	HOLOPHANE WL3K-250HP-27-HP WET LOCATION COMPACT FLUORESCENT	277	1	13W COMPACT FLUORESCENT	RECESSED	

ELECTRICAL LOAD ANALYSIS

LOAD DESCRIPTION	CONNECTED LOAD (KVA)	DEMAND MULTI.	DESIGN LOAD (KVA)	REMARKS
LIGHTING	4.8	1.25	6.0	
RECEPTACLES	1.4	1.0	1.4	
HEATING	31.0	1.25	38.75	
COOLING	-	-	-	
MOTORS	136.6	1.0	136.6	INCLUDES FUTURE PUMP P-3
LARGEST MOTOR	60	1.25	75	
GENERAL LOADS	3.1	1.0	3.1	
TOTAL LOAD	236.9		260.9	
TOTAL AMPS	285.0		313.9	

PUMP CONTROLLER "MCCA" *

SECTION 1	HP	AMP	BKR	SIZE	POLES	CONDUIT/WIRE
1 PUMP P-1	60	77	225	175	3	3*2, #6 GND, 11/4" C.
2 PUMP P-2	60	77	225	175	3	3*2, #6 GND, 11/4" C.
3 PUMP P-3 (FUTURE)	60	77	225	175	3	3*2, #6 GND, 11/4" C.

- REMARKS
- STARTERS ARE FULL VOLTAGE NON-REVERSING UNLESS OTHERWISE NOTED WITH PILOT LIGHTS, HOA SWITCH, AND LABELS. PROVIDE CONTROL POWER TRANSFORMER. PUMPS CONTROLLED BY LEVEL TRANSMITTERS/FLOATS.
 - REFER TO MECHANICAL EQUIPMENT FEEDER SCHEDULE FOR BREAKER SIZES NOT LISTED.
 - CONFIRM PUMP SIZES AND OVERCURRENT PROTECTION, FEEDER, AND STARTER SIZES WITH PUMP SUPPLIER PRIOR TO INSTALLATION.
- * FURNISHED AS A PACKAGE WITH PUMPS BY PUMP SUPPLIER.

SWITCHBOARD "MSB" SCHEDULE

CKT.	LOAD DESCRIPTION	SWITCH	FUSE	POLES	CONDUIT/WIRE
1	PUMP CONTROLLER "MCCA"	400	250	3	2 1/2" C/3-250 KCM, 1#4 GND
2	PNL "HA"	100	100	3	1 1/2" C/4-#2, 1#6 GND
3	F-EXHAUST FAN (7.5 HP)	100	20	3	3/4" C/3#12, 1#12 GND
4	SPACE ONLY	100	20	-	
5	SPACE ONLY	100	20	-	
6	SPACE ONLY	100	20	-	

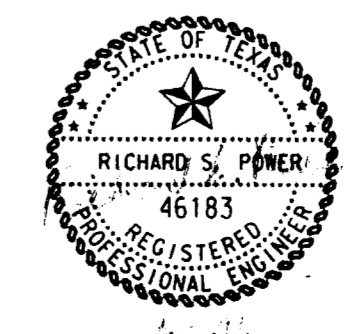
PANEL "HA" SCHEDULE

NO	DESCRIPTION	BKR/P	VOLTS			BKR/P	DESCRIPTION	NO
			A	B	C			
1	LIGHTS - GROUND LEVEL	20/1	1000			15/3	HOIST (1HP)	2
3	LIGHTS - LOWER LEVEL	20/1	499	1300		15/3		4
5	LIGHTS - EXTERIOR	30/1		499	2015	15/3		6
7	TRANS. 'TA' 30 KVA	50/3	10000	1191		20/3	AGITATOR	8
9			10000	1191				10
11				10000	1191			12
13	SPARE	20/1	5000			30/3	UNIT HEATER	14
15	SPARE	20/1		5000				16
17	SPARE	20/1			5000			18
19	SPARE	20/1				20/1	SPARE	20
21	SPARE	20/1				20/1	SPARE	22
23	SPARE	20/1				20/1	SPARE	24
25	SPACE ONLY	1P				1P	SPACE ONLY	26
27	SPACE ONLY	1P				1P	SPACE ONLY	28
29	SPACE ONLY	1P				1P	SPACE ONLY	30
31								32
33								34
35								36
37								38
39								40
41								42
DEMAND AMPS: 74.4		TOTALS		17,690	20,690	18,705	CONNECTED KVA: 57.1	DEMAND KVA: 61.8






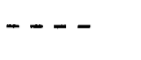
PANEL "LA" SCHEDULE

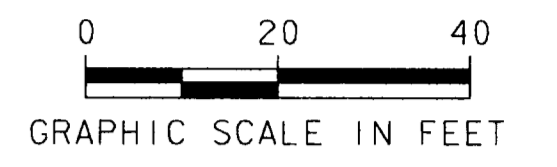
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			A	B	C			
1	GENERAL RECEPTACLES	20/1	720			20/1	SECURITY ALARM CONTROL PNL	2
3	GENERAL RECEPTACLES	20/1	500	720	500	20/1	PUMP CONTROLLER CONTROL PWR	4
5	FAN F2 (1/6 HP)	15/1		528	528	15/1	FAN F3 (1/6 HP)	6
7	MOTORIZED LOUVERS	20/1	600			20/1	IRRIGATION CONTROLLER	8
9	TELEMETRY PANEL	20/1	500	1000	600	20/1	TELEPHONE BOARD	10
11	DOOR OPERATOR (1/2 HP)	20/1		1176	1176		SUMP PUMP "SP-1" (1/2 HP)	12
13	SUMP PUMP "SP-2" (1/2 HP)	20/1	1176		1176	30/2	EWI-(4.5 KW)	14
15	SPARE	20/1	2250					16
17	EF-4 (500 W)	20/1		500		20/1	SPARE	18
19	SPACE ONLY	1P				1P	SPACE ONLY	20
21	SPACE ONLY	1P				1P	SPACE ONLY	22
23	SPACE ONLY	1P				1P	SPACE ONLY	24
25								26
27								28
29								30
31								32
33								34
35								36
37								38
39								40
41								42
DEMAND AMPS: 44.0		TOTALS		5,746	5,070	3,908	CONNECTED KVA: 14.7	DEMAND KVA: 15.8

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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.
TOWN OF ADDISON, TEXAS			
MIDWAY/BELTLINE SANITARY SEWER PHASE II			
LIFT STATION ELECTRICAL SCHEDULES			
Carter & Burgess Consultants in Engineering, Architecture, Planning and the Environment CARTER & BURGESS, INC. 7550 EMBROOK DRIVE, SUITE 250 DALLAS, TX 75247-4961			
Unit	Scale	Date	04-05-98
Designed	J. Webb	Checked	J. Webb
Drawn	J. Webb	Approved	J. Webb
		Job No.	933276010
		Sheet	59 of 63



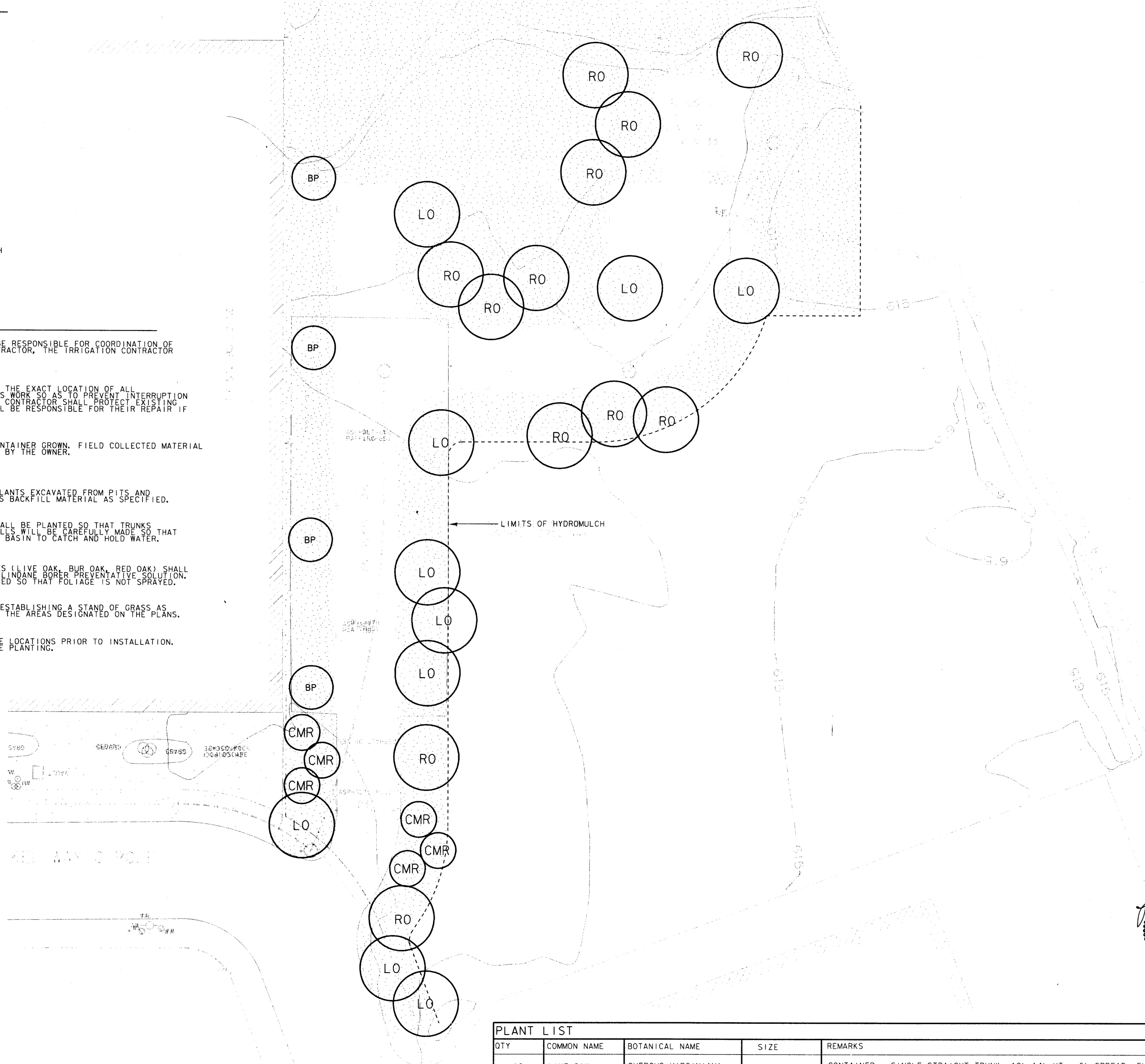
LEGEND

-  LIVE OAK
-  RED OAK
-  BRADFORD PEAR
-  CRAPE MYRTLE- RED
-  HYDROMULCH
-  LIMIT OF HYDROMULCH



PLANTING NOTES:

1. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE WORK AMONG THE LANDSCAPE CONTRACTOR, THE IRRIGATION CONTRACTOR AND OTHER CONTRACTORS ON SITE.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES AND CONDUCT HIS WORK SO AS TO PREVENT INTERRUPTION OF SERVICE OR DAMAGE TO THEM. THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITIES AND SHALL BE RESPONSIBLE FOR THEIR REPAIR IF DAMAGED.
3. ALL PLANT MATERIAL SHALL BE CONTAINER GROWN. FIELD COLLECTED MATERIAL SHALL NOT BE USED UNLESS APPROVED BY THE OWNER.
4. ONLY TOPSOIL FREE OF NOXIOUS PLANTS EXCAVATED FROM PITS AND BEDS WILL BE ACCEPTABLE FOR USE AS BACKFILL MATERIAL AS SPECIFIED.
5. ALL TREES PLANTED ON SLOPES SHALL BE PLANTED SO THAT TRUNKS ARE STRAIGHT AND UPRIGHT. TREE WELLS WILL BE CAREFULLY MADE SO THAT DOWNHILL LIP OF TREE WELL FORMS A BASIN TO CATCH AND HOLD WATER.
6. AFTER PLANTING, ALL OAK SPECIES (LIVE OAK, BUR OAK, RED OAK) SHALL HAVE THEIR TRUNKS SPRAYED WITH A LINDANE BORER PREVENTATIVE SOLUTION. SOLUTION SHALL BE CAREFULLY APPLIED SO THAT FOLIAGE IS NOT SPRAYED.
7. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING A STAND OF GRASS AS STATED IN THE SPECIFICATIONS, FOR THE AREAS DESIGNATED ON THE PLANS.
8. CONTRACTOR SHALL STAKE ALL TREE LOCATIONS PRIOR TO INSTALLATION. OWNER SHALL APPROVE STAKING BEFORE PLANTING.
9. REFER TO PLANTING DETAILS.



PLANT LIST

QTY	COMMON NAME	BOTANICAL NAME	SIZE	REMARKS
10	LIVE OAK	QUERCUS VIRGINIANA	5" CAL.	CONTAINER., SINGLE STRAIGHT TRUNK, 12'-14' HT., 6' SPREAD, FULL CROWN
12	SHUMARD OAK	QUERCUS SHUMARDII	5" CAL.	CONTAINER., SINGLE STRAIGHT TRUNK, 12'-14' HT., 6' SPREAD, FULL CROWN
6	CRAPE MYRTLE	LAGERSTROEMIA INDICA 'TUSCARORA'	10'-12' HT.	CONTAINER, MULTI-TRUNK, MATCHED, 5' SPREAD, FULL CROWN, 5 CANE MINIMUM
4	BRADFORD PEAR	PYRUS CALLERYANA	3/2" CAL.	CONTAINER, SINGLE STRIAIGHT TRUNK, 8'-10' HT.
33,025 SF	COMMON BERMUDA	CYNODON DACTYLON		HYDROSEED



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1	9-4-98	AS BUILT DRAWING	J. N. L.
NO.	DATE	REVISION	APPROV.

TOWN OF ADDISON, TEXAS
 MIDWAY/BELTLINE SANITARY SEWER
 PHASE II
 LIFT STATION
 LANDSCAPE ARCHITECTURAL SITE PLAN



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Designed	B. Luck	Checked	J. Lindner
Drawn	B. Luck	Approved	J. Lindner
		Job No.	93327601D
		Sheet	60 of 63

**TOWN OF ADDISON
IRRIGATION SPECIFICATIONS**

ALL MAIN LINE PIPE TO BE SCHEDULE 40 BELLED PVC. PUT NOT MORE THAN TWO (2) PIPES IN ANY ONE TRENCH. CLASS 200 LATERAL PIPING IS SUBJECT TO PRIOR APPROVAL BY THE TOWN.

FITTINGS: NO CROSSES ARE PERMITTED. SEPARATE TEES AND/OR ELBOWS BE AT LEAST 12". REDUCTION TEES ARE PERMITTED OVER USE OF REDUCER BUSHINGS. ONLY SPEARS AND/OR LASCO ARE PERMITTED. ALLOW 18" OUTSIDE OF SLEEVE BEFORE FIRST FITTING.

WIRING: 14 GA. UF. RED-CONTROL WIRES. WHITE-GROUND. ANYTIME WIRING CHANGES DIRECTION, SUCH AS AT AN ELBOW OR TEE, ALLOW A LOOP AT LEAST ONE HAND WIDTH (10 INCHES) ALONGSIDE THE FITTING AT THAT LOCATION. ONLY CONTINUOUS WIRE RUNS ARE PERMISSIBLE UNLESS OTHERWISE APPROVED. WIRE SHOULD FOLLOW MAINLINE WHERE POSSIBLE AND LAY ALONG A SINGLE SIDE NOT CROSSING OVER LATERAL LINES.

USE KING CONNECTORS FOR ALL WIRE SPLICES. ALLOW AT LEAST 36" OF PIGTAILED WIRE AT EACH SPLICE. ALL VALVE SPLICES ARE TO BE HOUSED IN STANDARD (LARGE) RECTANGULAR PLASTIC VALVE BOXES. ALL FIELD SPLICES ARE TO BE IN 10" ROUND PLASTIC VALVE BOXES.

ONLY WEATHERMATIC 11000CR SERIES PLASTIC VALVES ARE PERMITTED. THEY ARE TO BE LOCATED WITHIN STANDARD (LARGE) RECTANGULAR PLASTIC VALVE BOXES WITH 4"-6" OF PEA GRAVEL PLACED UNDERNEATH THE VALVE IN SUCH A MANNER AS TO PREVENT SOIL INFILTRATION INTO THE BOX.

ONLY BUCKNER MODEL 30A SINGLE LUG 1/2" OVC'S ARE PERMITTED. THEY ARE TO BE CONNECTED TO A THREADED FITTING. STANDARD (LARGE) RECTANGULAR PLASTIC VALVE BOXES AND SCHEDULE 40 FITTINGS ARE TO BE USED. HOUSE OVC IN A 10" ROUND PLASTIC VALVE BOX.

ALL HEADS ARE TO BE ATTACHED TO THREADED FITTINGS VIA 6" POLYETHYLENE NIPPLES CUT TO THE APPROPRIATE LENGTH. ALL NOZZLE SIZES WILL BE DESIGNATED ON THE PLANS.

POP-UPS: ONLY TORO 570C SERIES ARE PERMITTED UNLESS OTHERWISE NOTED. INSTALL 3/4" ABOVE FINISHED GRADE. TURF-4" (INCLUDES TREE BUBBLER WITHIN TURF AREAS, USE TORO SB-PC NOZZLES. VERY LOW GROUND COVER (LESS THAN 6" MATURE HT.) 1"-6". GROUND COVER AND LOW GROWING SHRUBS 12" HP. FUNNY PIPE FOR 12" HP INSTALLATIONS WITH OWNER APPROVAL IS ACCEPTABLE IF CONDITIONS WARRANT.

BUBBLERS: BED AREAS ONLY. USE TORO 500 SERIES STREAM OR FLOOD BUBBLERS.

ROTARIES: ONLY HUNTER PGP SERIES ARE PERMITTED UNLESS OTHERWISE NOTED. INSTALL 3/4" ABOVE FINISHED GRADE.

RISERS: USE TYPE M COPPER WITH SOLDERED MALE ENDS FOR TORO 570-S SHRUB ADAPTERS AND FEMALE ENDS TO ATTACH TO SHORT POLYETHYLENE NIPPLES SCREWED INTO THREADED FITTINGS. OWNER RESERVES THE RIGHT TO DETERMINE PLACEMENT OF RISERS VERSUS POP-UPS.

ONLY HERSEY MVR METERS WITH 17" LAY LENGTH AND (3) BRASS FLANGES ARE ACCEPTABLE. STAINLESS STEEL BOLTS AND NUTS MUST BE USED IN THE INSTALLATION ALONG WITH NEOPRENE GASKETS. HOUSE IN APPROPRIATE SIZE (TO BE DETERMINED BY OWNER) CONCRETE BOX WITH LID. TO BRING BOX TO GROUND LEVEL USE BRICKS OR PAVERS, AND BACKFILL INSIDE BELOW METER BASE WITH AT LEAST 6" OF PEA GRAVEL. CONNECTION TO MAIN MUST BE DONE BY THE TOWN'S WATER DEPARTMENT AND ALL TAP MATERIALS MUST BE APPROVED BY THEM.

ONLY FEBCO 805-Y DOUBLE CHECK ASSEMBLIES ARE TO BE USED. CONNECT TO METER FLANGE USING TEFLON PASTE AND GRAY SCHEDULE 80 NIPPLE AT LEAST 6" IN LENGTH. HOUSE IN APPROPRIATE SIZE (TO BE DETERMINED BY OWNER) CONCRETE BOX WITH LID. TO BRING BOX TO GROUND LEVEL USE BRICKS OR PAVERS, AND BACKFILL INSIDE BELOW METER BASE WITH AT LEAST 6" OF PEA GRAVEL. CONNECTION TO MAIN MUST BE DONE BY THE TOWN'S WATER DEPARTMENT AND ALL TAP MATERIALS MUST BE APPROVED BY THEM.

FEMALE THREADED PLASTIC BALL VALVES WITH POSITIVE T-HANDLE CUT OFF MUST BE INSTALLED. HOUSE IN STANDARD (LARGE) RECTANGULAR PLASTIC VALVE BOX AND FOLLOW METER BOX INSTALLATION INSTRUCTIONS FOR DCA ASSEMBLY. USE TO ISOLATE EVERY 200' OF MAINLINE.

ONLY IRRITROL MC PLUS SERIES CONTROLLER IS PERMITTED UNLESS OTHERWISE APPROVED AND/OR NOTED. N/CAD BATTERIES MUST BE SUPPLIED WITH EVERY INSTALLATION. CONTROLLERS ARE TO BE INSTALLED ON THE APPROPRIATE PEDESTAL AFFIXED TO A PERMANENT CONCRETE PAD VIA (4) BOLTS. ALL WIRING IS TO ENTER THE PEDESTAL VIA GRAY PVC SWEEP ELBOWS EXTENDING THROUGH THE PAD. CONTROL WIRING AND 120-V SERVICES ARE TO BE SEPARATED WITH EACH HAVING IT'S OWN ACCESS ELBOW. CHECK TOWN'S ELECTRICAL CODES FOR PROPER 120-V SERVICE INSTALLATION. ALL CONTROLLERS ARE TO BE PERMANENTLY WIRED FOR QUICK ATTACHMENT OF IRRITROL RVC UNIT. USE IRRITROL CABLE ADP-1. ALL CONTROLLERS ARE TO BE PROPERLY AND PERMANENTLY WIRED WITH MINICLICK FREEZE SENSOR OR EQUAL.

USE CLEAN AND APPROVED LOAM TO BACKFILL ALL PIPE TO A DEPTH OF AT LEAST 6" ABOVE TOP OF PIPE. ALL HEADS AND BOXES ARE TO BACKFILL TO GRADE WITH LOAM. REMAINDER OF TRENCH MAY BE FILLED USING CLEAN AND APPROVED SOIL. NO ROCKS GREATER THAN 1" ARE ALLOWED. COMPACT TRENCHES TO ALLEVIATE SETTLING.

ALL SLEEVES WILL BE SCHEDULE 40 PVC WITH SIZE AND APPROPRIATE LOCATION NOTED ON THE PLAN. ALL PIPING UNDERNEATH PAVING INCLUDING SIDEWALKS MUST BE SLEEVED.

USE APPROPRIATE AND APPROVED PVC SOLVENT. AVOID EXCESSIVE USE AND WIPE ALL JOINTS AND FITTINGS CLEAN.

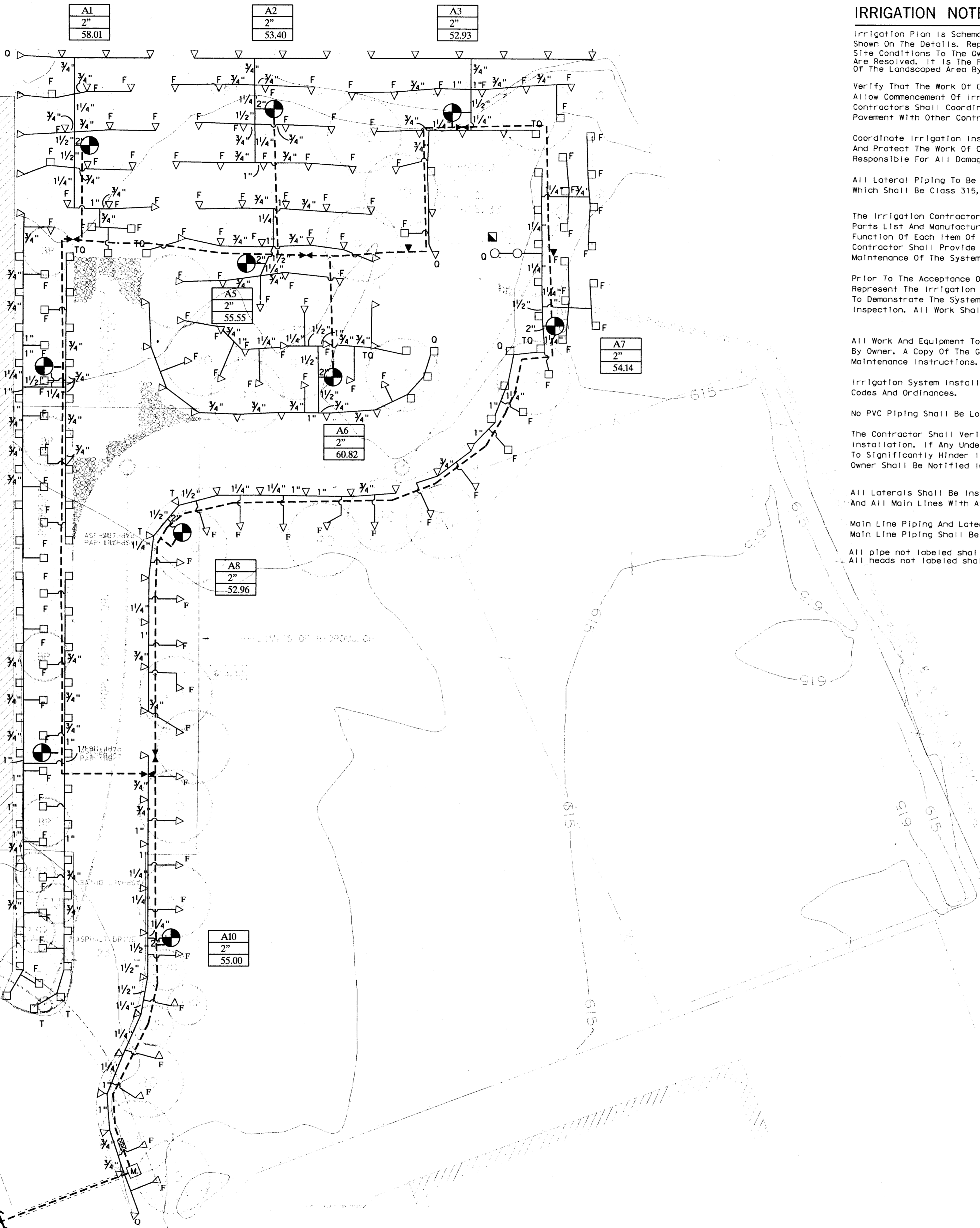
THE INSTALLER IS RESPONSIBLE FOR RESETTING HEAD AND/OR BOX HEIGHT DUE TO SETTLING. CONTRACTOR MUST OBTAIN A WORKMANSHIP WARRANTY FOR (1) YEAR FROM DATE OF COMPLETION.

MODIFY PER CITY CENTRAL CONTROL STANDARD

IRRIGATION LEGEND

- TORO 570Z MPR 4" POP-UP SPRAY HEAD w/10 NOZZLE
- TORO 570Z MPR 4" POP-UP SPRAY HEAD w/12 NOZZLE
- △ TORO 570Z MPR 4" POP-UP SPRAY HEAD w/15 NOZZLE
- ⊕ WEATHERMATIC 11000CR SERIES VALVE w/ XPR PRESSURE REGULATOR, 2"
- IRRIGATION SYSTEM LATERAL PIPING, SIZE AS NOTED
- IRRIGATION SYSTEM MAINLINE PIPING, 2"
- == SCHEDULE 40 PVC SLEEVE, 6"
- ⊞ FEBCO 805-Y DOUBLE CHECK ASSEMBLY, 2"
- M 1/2" WATER METER
- ⊖ BALL VALVE, 1/2"
- ▽ 3/4" QUICK COUPLING VALVE
- RAIN MASTER 'EVOLUTION' 12 STATION CONTROLLER, WALL MOUNT SYSTEM

A? -STATION
2" -VALVE SIZE
XX.XX -GPM



IRRIGATION NOTES

Irrigation Plan Is Schematic. All Piping Heads, Valves, Etc. Shall Be Located As Shown On The Details. Report Any Discrepancies Between Actual And Proposed Site Conditions To The Owner. Do Not Proceed With Work Until Said Discrepancies Are Resolved. It Is The Responsibility Of The Contractor To Achieve Full, Even Coverage Of The Landscaped Area By Adjustments To Head Locations Or Headings As Necessary.

Verify That The Work Of Other Contractors/Trades Is Sufficiently Complete To Allow Commencement Of Irrigation Installation Prior To Beginning Work. Contractors Shall Coordinate Installation Of All Irrigation Sleeves Under Pavement With Other Contractors.

Coordinate Irrigation Installation With The Work Of Other Contractors/Trades And Protect The Work Of Other Contractor/Trades. Irrigation Contractor Is Responsible For All Damages Resulting From His Actions.

All Lateral Piping To Be PVC Class 200, SDR 21 With Solvent Welded Joints. Except 1/2" Pipe Which Shall Be Class 315, SDR 13.5.

The Irrigation Contractor Shall Provide The Owner With Two Copies Of The Parts List And Manufacturer's Catalog Showing Performance, Quality And Function Of Each Item Of Equipment In The System. In Addition, The Irrigation Contractor Shall Provide The Owner Written Instructions For Operation And Maintenance Of The System.

Prior To The Acceptance Of Irrigation System By Owner, A Person Qualified To Represent The Irrigation Contractor Shall Be Present At The Final Inspection To Demonstrate The System And Prove Its Performance Prior To The Inspection. All Work Shall Have Been Completed, TESTED, Adjusted And Placed

All Work And Equipment To Be Guaranteed For One Year From Date Of Acceptance By Owner. A Copy Of The Guarantee Shall Be Included In The Operation/Maintenance Instructions.

Irrigation System Installation To Be Performed In Accordance With All Pertinent Codes And Ordinances.

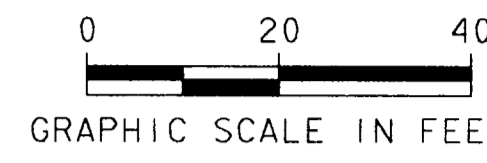
No PVC Piping Shall Be Located Under Tree Rootballs.

The Contractor Shall Verify Location Of All Underground Utilities Prior To Installation. If Any Underground Or Above Ground Construction Is Located As To Significantly Hinder Installation Or Function Of The Irrigation System, The Owner Shall Be Notified Immediately.

All Laterals Shall Be Installed With 12" Minimum Coverage Over Pipes At Finish Grade And All Main Lines With At Least 18" Minimum Coverage.

Main Line Piping And Lateral Piping May Be Placed In Same Trench When Possible. Main Line Piping Shall Be Installed In Bottom Of Trench With Laterals Above.

All pipe not labeled shall be 1/2" class 315 PVC. All heads not labeled shall be half or 180° pattern.



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1	9-4-98	AS BUILT DRAWING	J. H. L.
NO.	DATE	REVISION	APPROV.

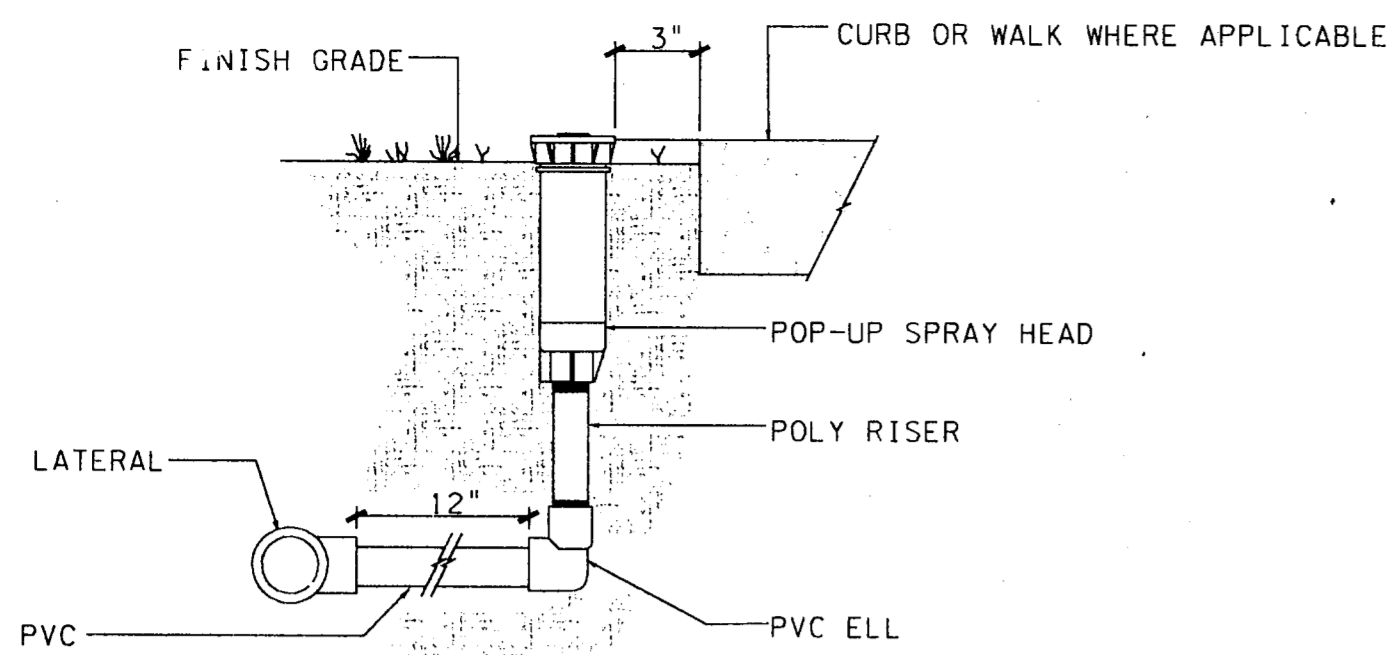
TOWN OF ADDISON, TEXAS
MIDWAY/BELTLINE SANITARY SEWER
PHASE II
LIFT STATION
IRRIGATION PLAN



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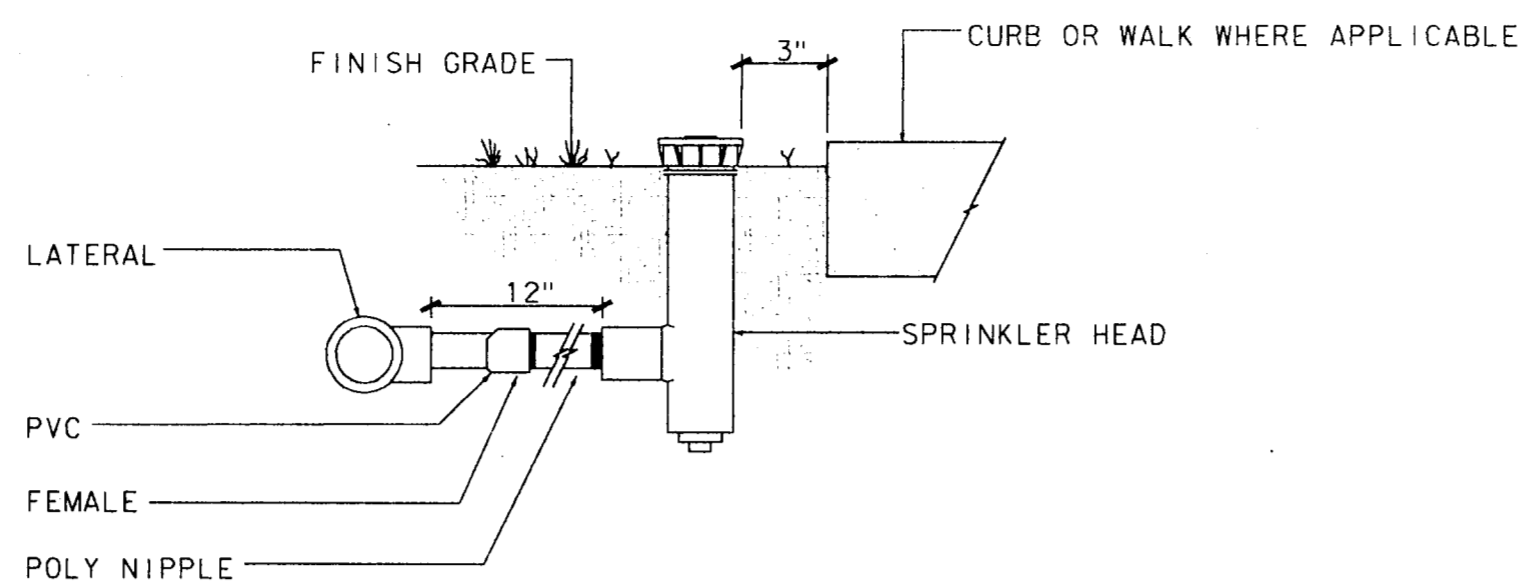


Unit	Scale	1" = 20'	Date	04-05-96	
Designed	B. Luck	Checked	J. Lindner	Job No.	93327601D
Drawn	B. Luck	Approved	J. Lindner	Sheet	62 of 63



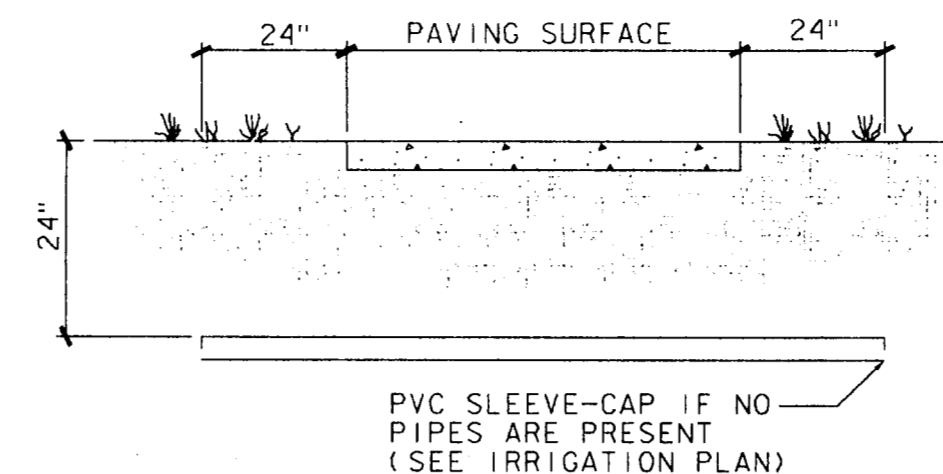
TURF POP-UP SPRAY AND ROTOR HEAD DETAIL

NOT TO SCALE



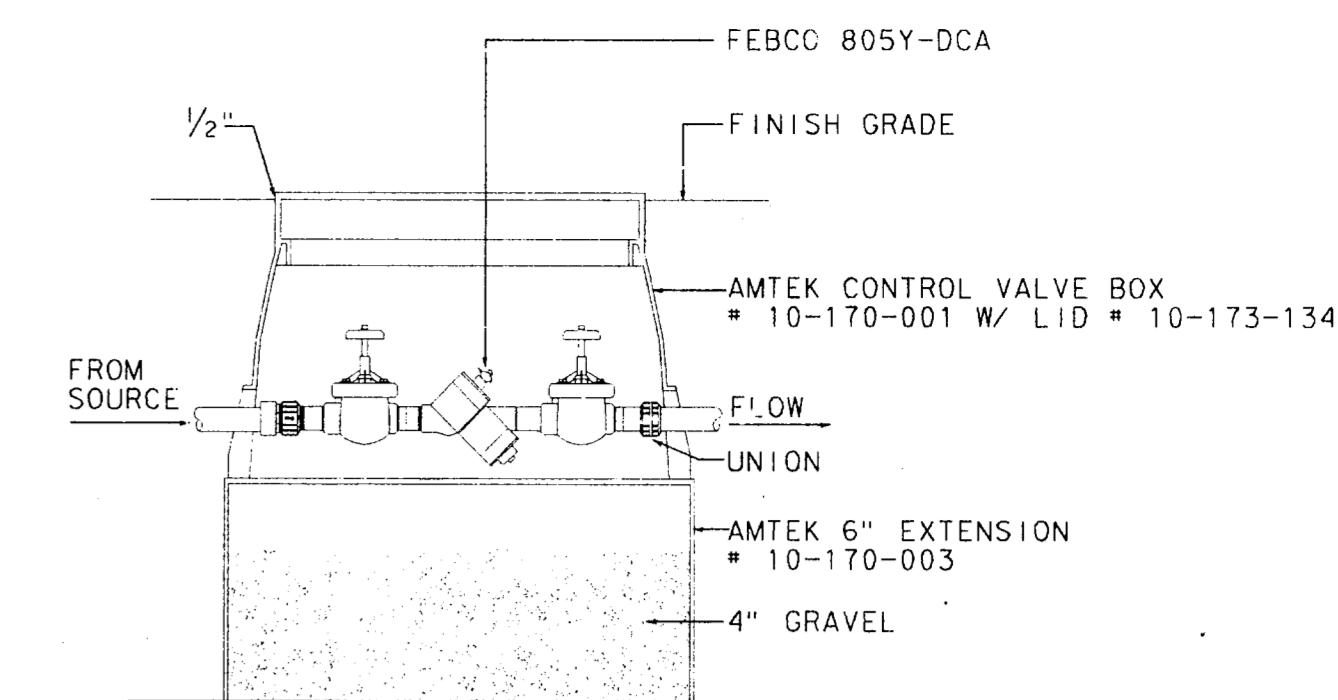
HIGH POP-UP SPRAY HEAD DETAIL

NOT TO SCALE



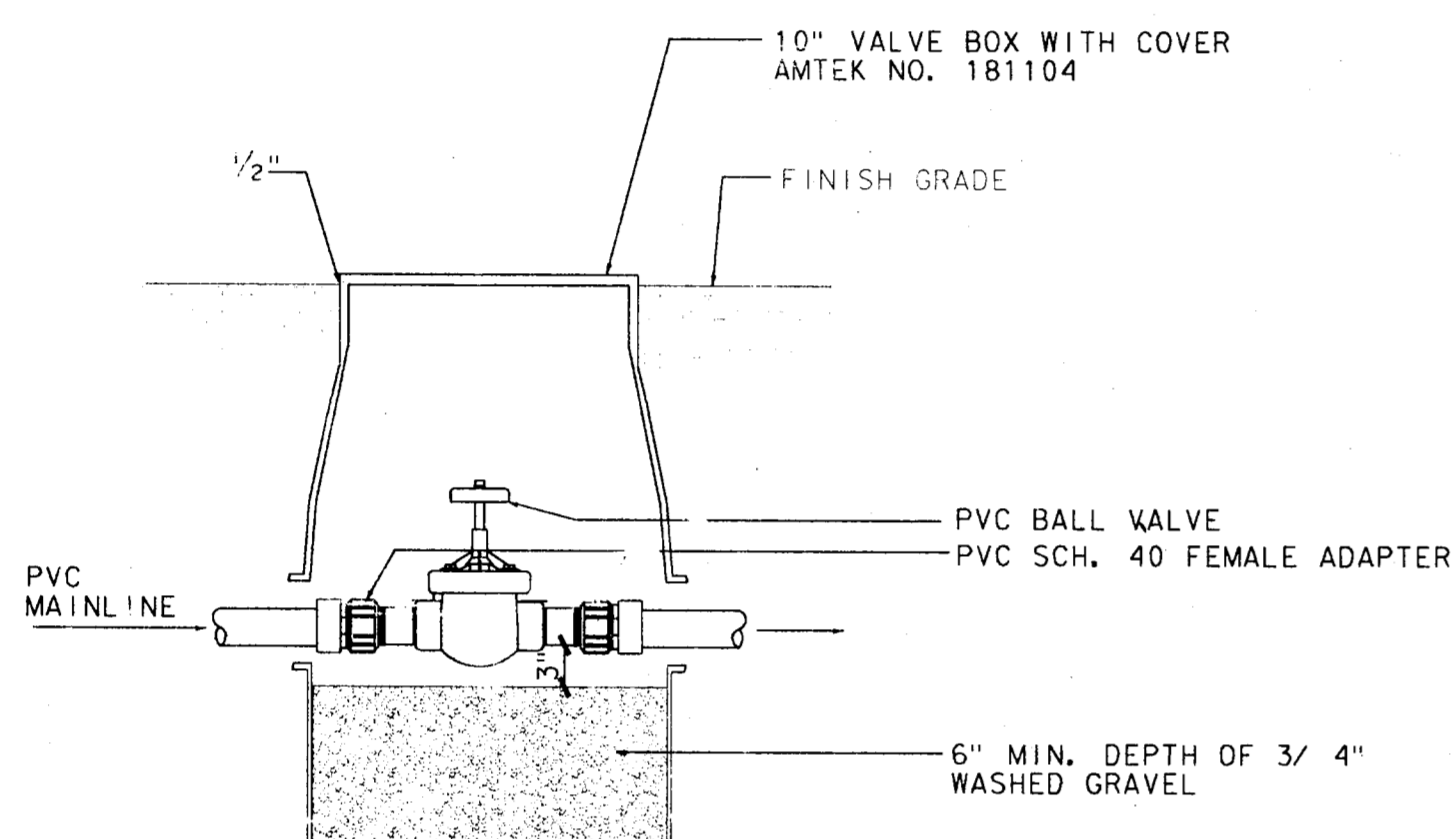
SLEEVE DETAIL

NOT TO SCALE



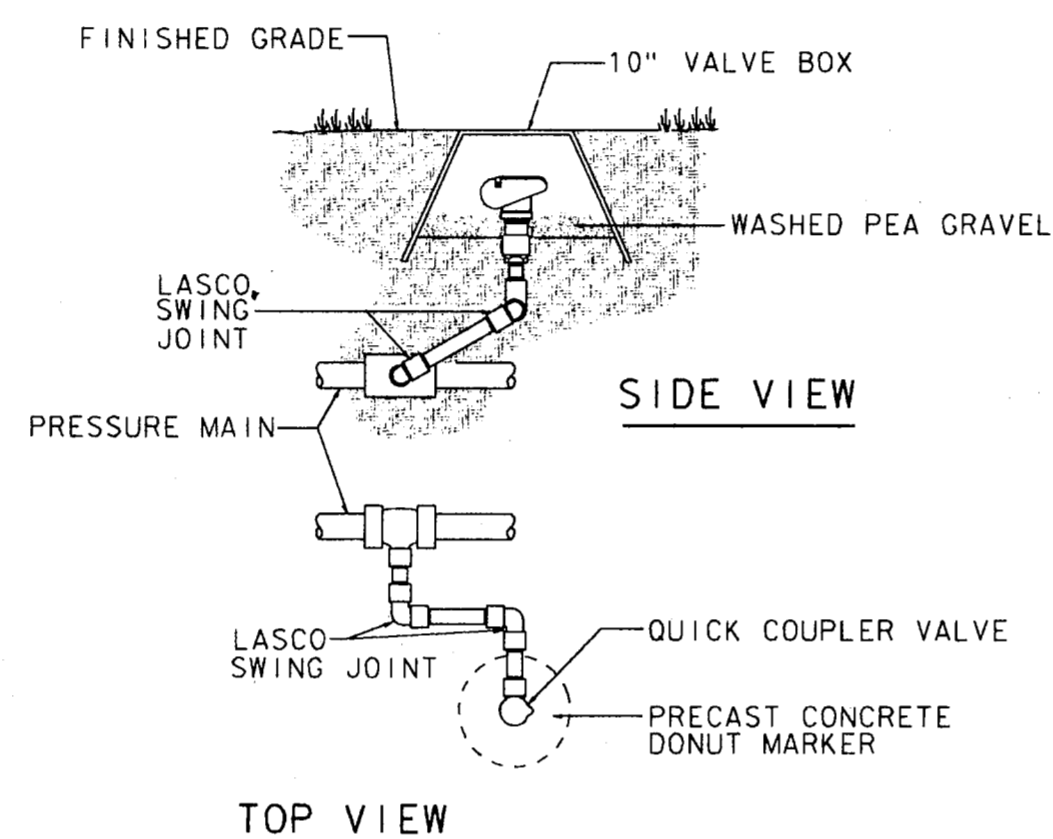
BACKFLOW PREVENTION DETAIL

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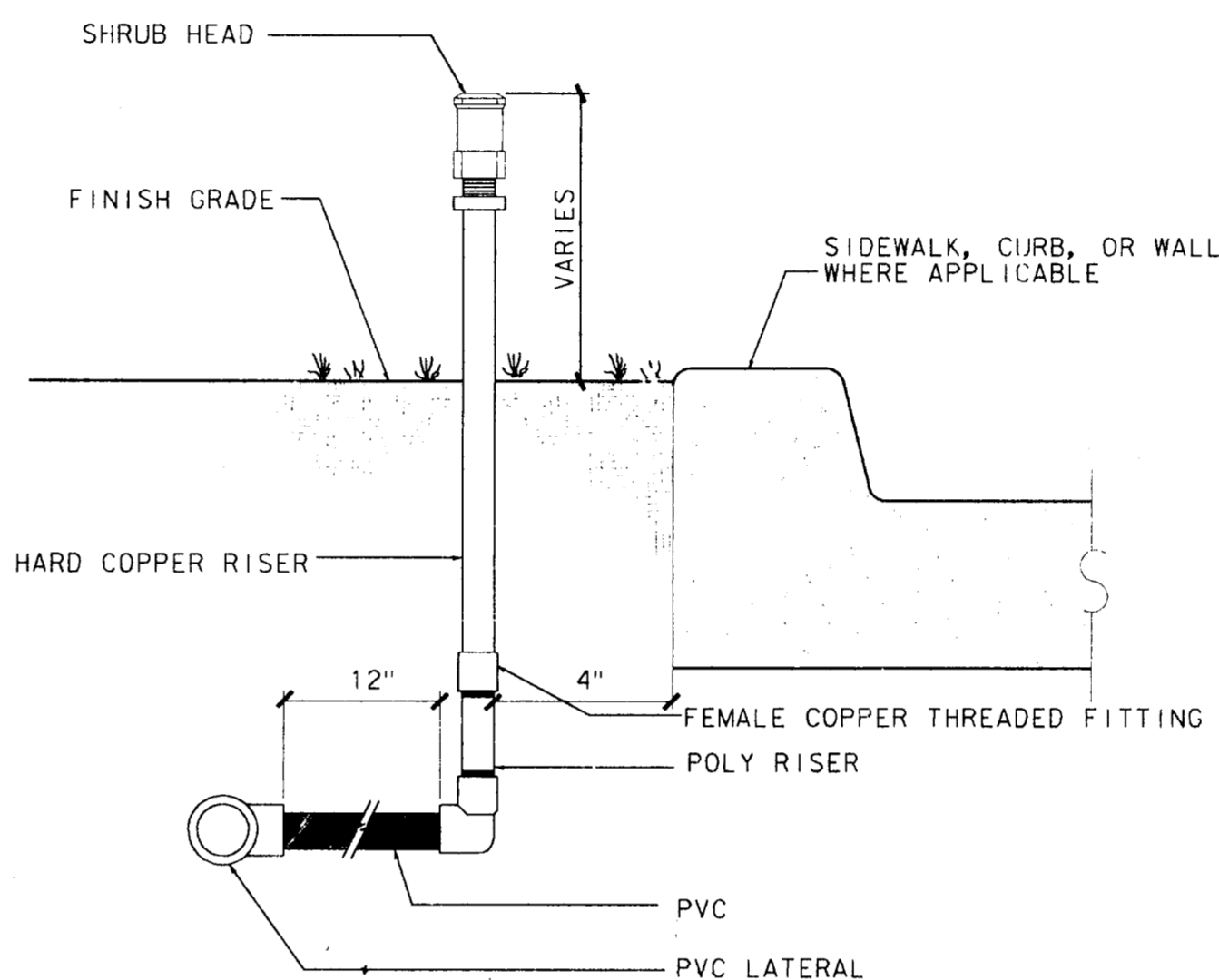
ISOLATION GATE VALVE DETAIL

NOT TO SCALE



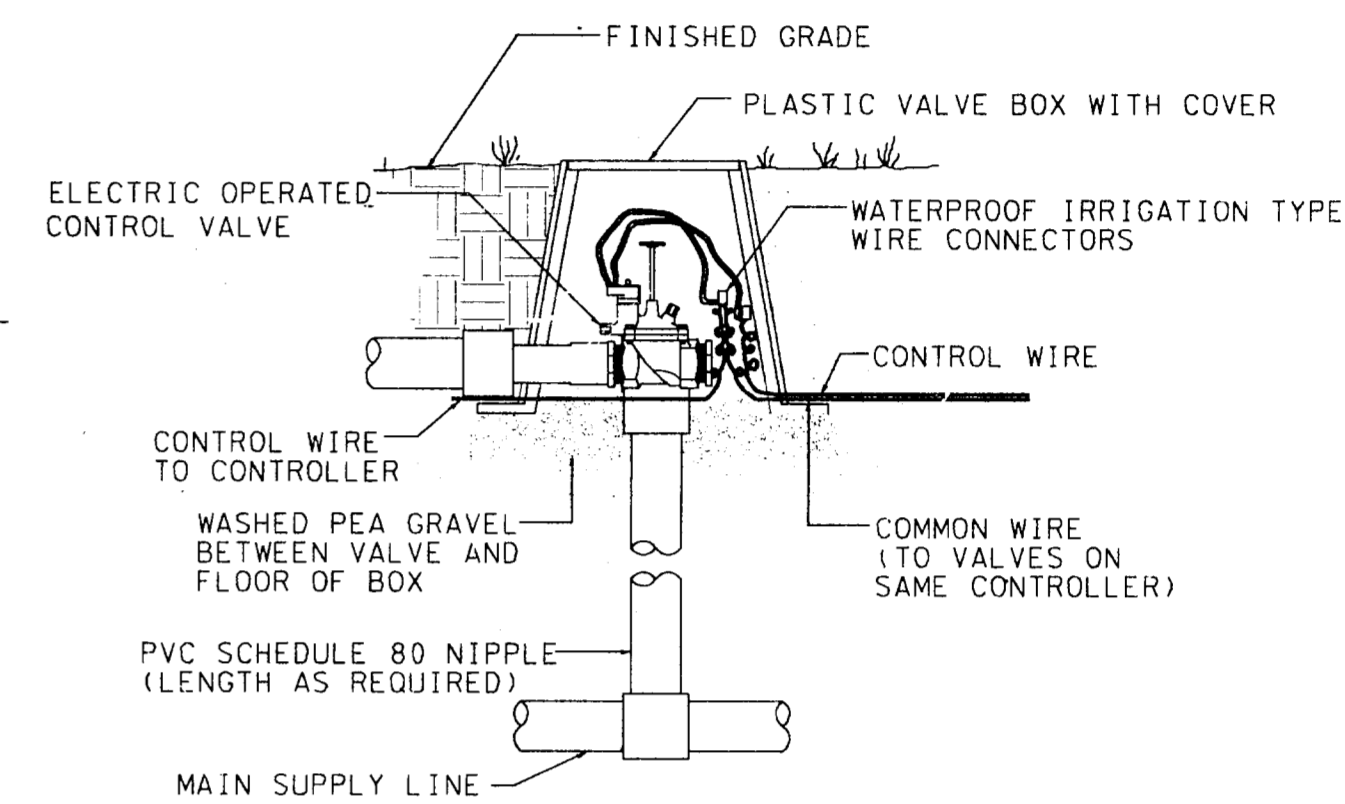
QUICK COUPLING VALVE DETAIL

NOT TO SCALE



SHRUB HEAD DETAIL

NOT TO SCALE

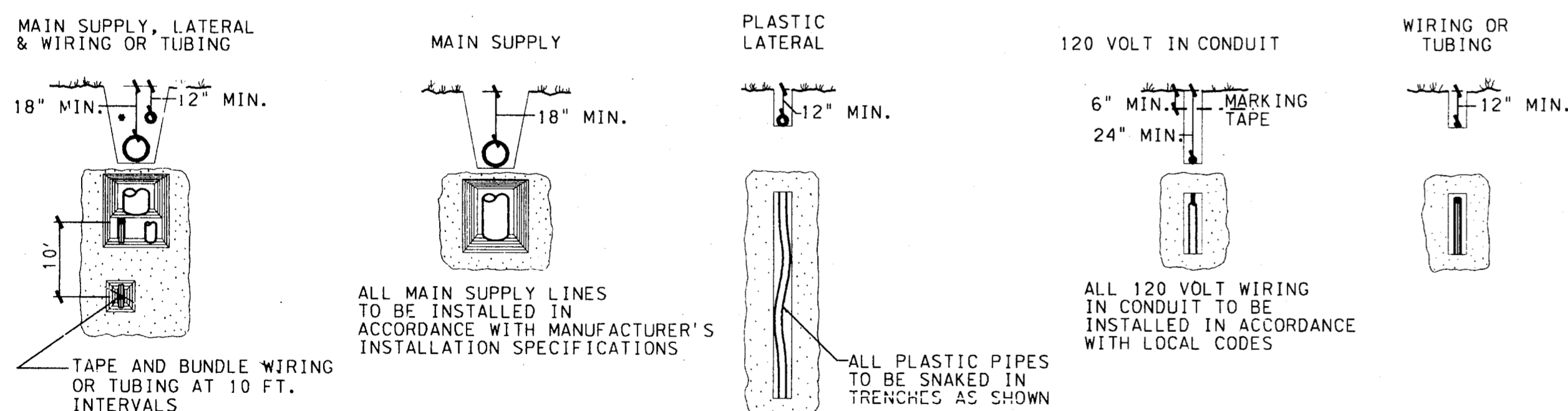


SOLENOID VALVE DETAIL

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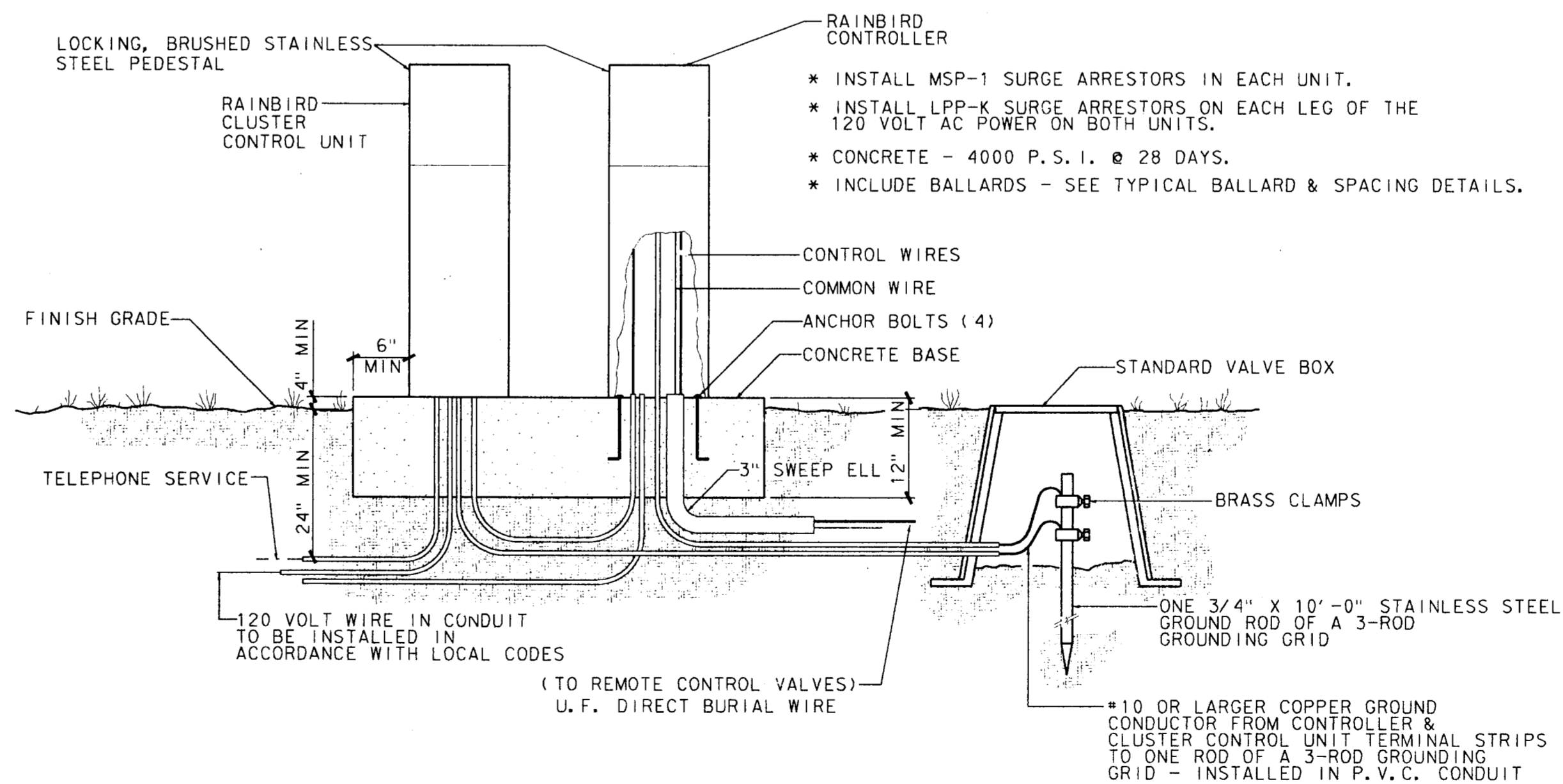
NOTES

1. ALL WIRE TO BE INSTALLED PER LOCAL CODE.
2. TAPE AND BUNDLE WIRE EVERY TEN FEET.
3. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX. (WRAP AROUND 1/2" PIPE 15 TIMES.)
4. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. ORIENT RECTANGULAR VALVE BOXES SO THAT THE EDGES ARE PARALLEL TO ADJACENT WALKS, CURBS, ETC.



TRENCHING DETAILS

NOT TO SCALE



TYPICAL CONTROLLER & CL. CONTROL UNIT PAD DETAILS

NOT TO SCALE

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1	5-4-98	AS BUILT DRAWING	J. H. L.
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TOWN OF ADDISON, TEXAS

MIDWAY/BELTLINE SANITARY SEWER
PHASE II

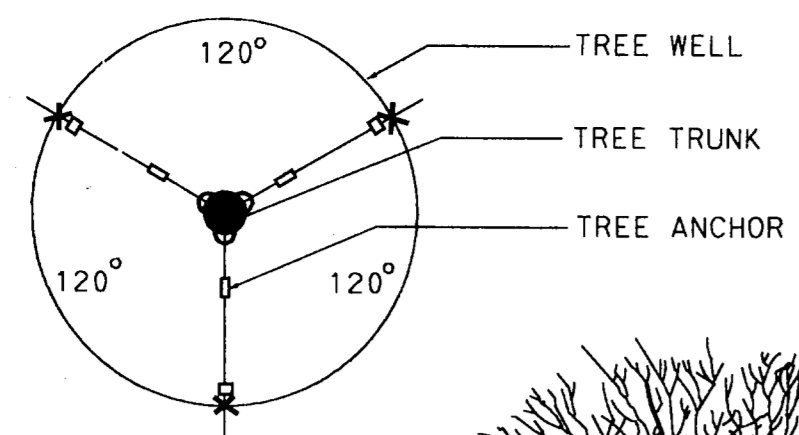
LIFT STATION
IRRIGATION DETAILS

Carter Burgess

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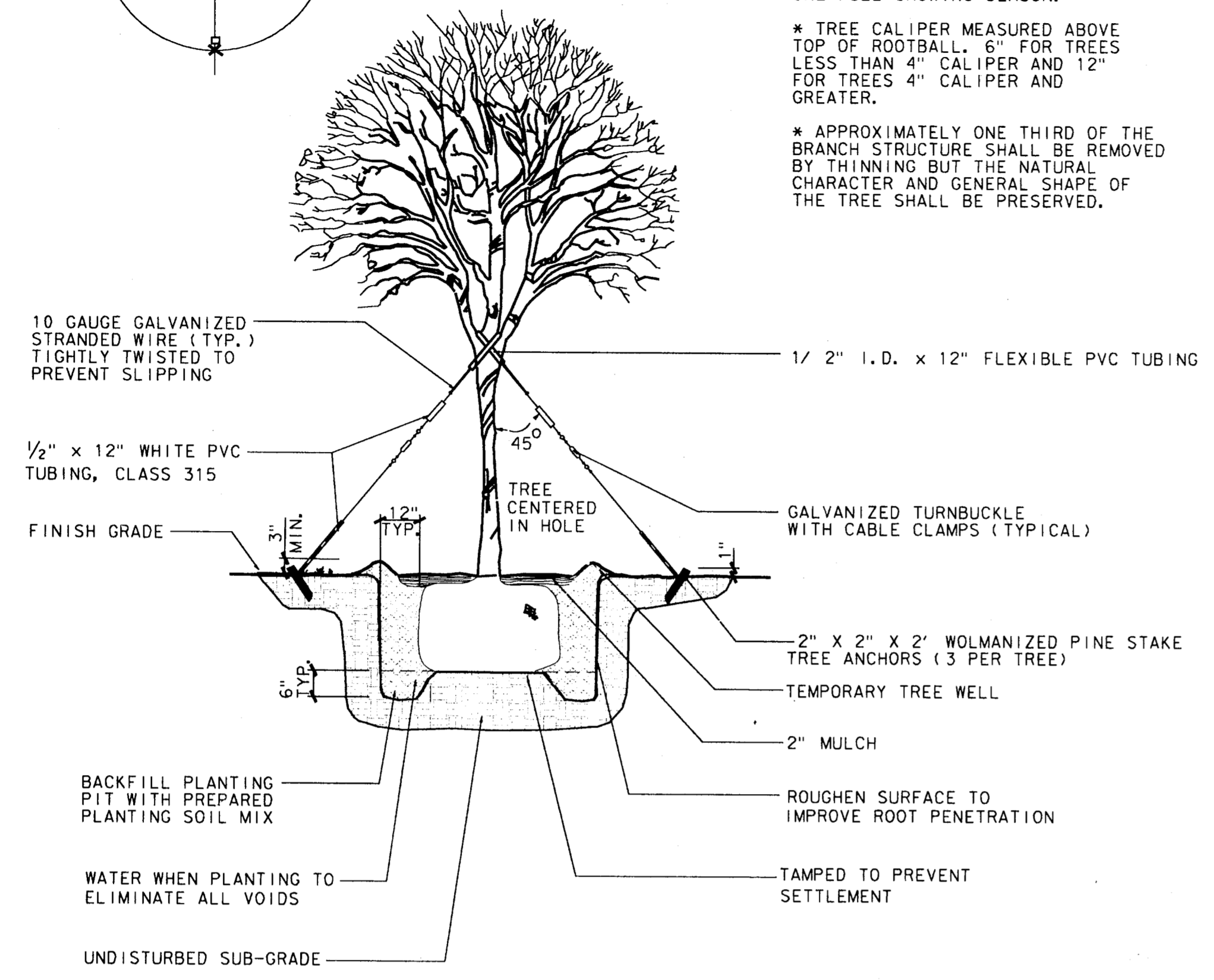
Unit	Scale	1" = 20'	Date	04-05-96
Designed	B. Luck	Checked	J. Lindner	Job No. 93327601D
Drawn	B. Luck	Approved	J. Lindner	Sheet 63 of 63





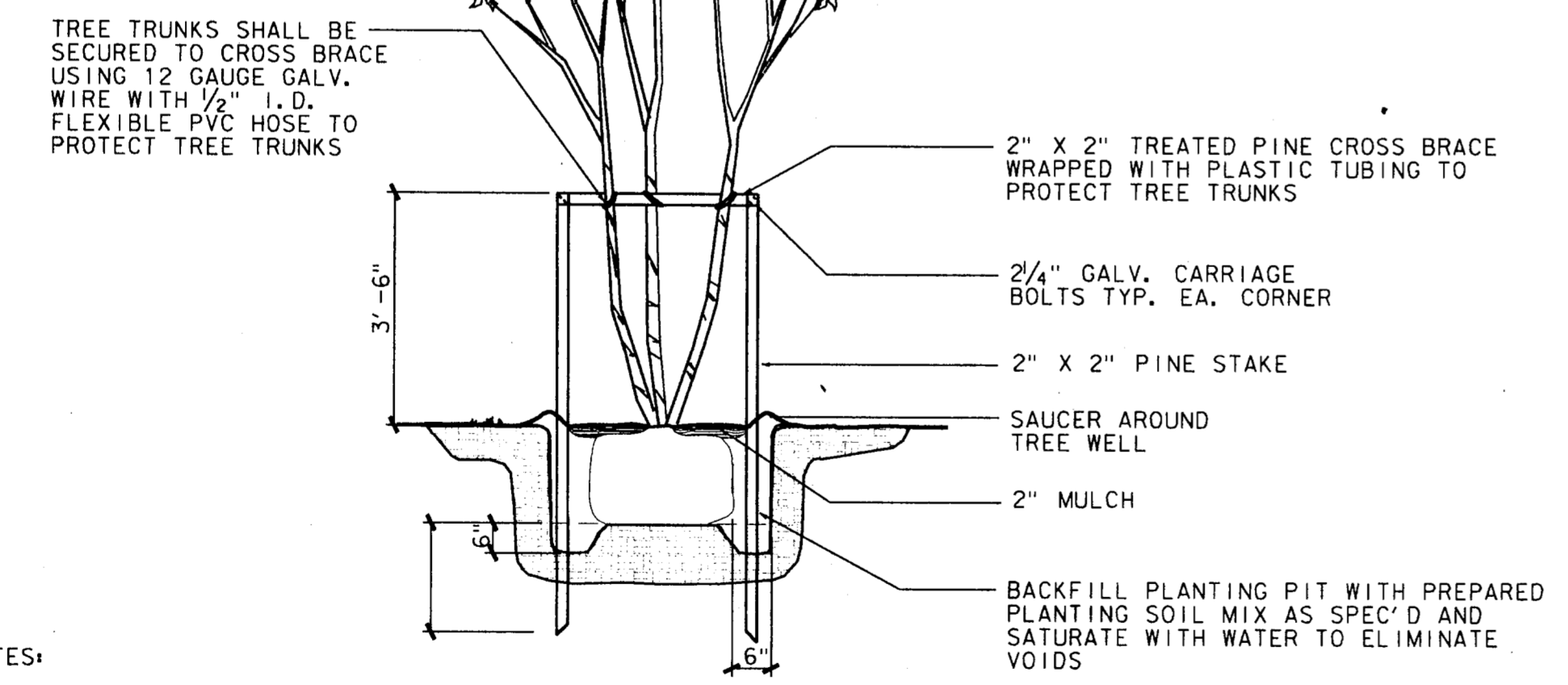
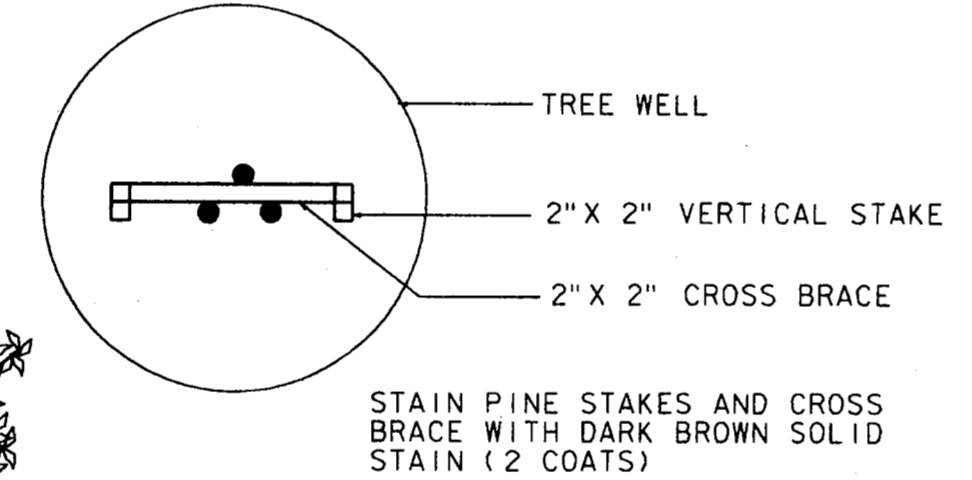
NOTES:

- * TEMPORARY TREE ANCHORS AND GUY WIRES TO BE REMOVED AFTER ONE FULL GROWING SEASON.
- * TREE CALIPER MEASURED ABOVE TOP OF ROOTBALL. 6" FOR TREES LESS THAN 4" CALIPER AND 12" FOR TREES 4" CALIPER AND GREATER.
- * APPROXIMATELY ONE THIRD OF THE BRANCH STRUCTURE SHALL BE REMOVED BY THINNING BUT THE NATURAL CHARACTER AND GENERAL SHAPE OF THE TREE SHALL BE PRESERVED.



TREE PLANTING & STAKING DETAIL

NOT TO SCALE



NOTES:

- * TEMPORARY TREE WELL, STAKES AND CROSS BRACE TO BE REMOVED AFTER ONE FULL GROWING SEASON
- * APPROXIMATELY 1/3 OF THE BRANCH STRUCTURE SHALL BE REMOVED BY THINNING, BUT THE NATURAL CHARACTER AND GENERAL SHAPE OF THE TREE SHALL BE PRESERVED.

MULTI-TRUNK TREE PLANTING & STAKING DETAIL

NOT TO SCALE

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TOWN OF ADDISON, TEXAS
MIDWAY/BELTLINE SANITARY SEWER PHASE II
LIFT STATION LANDSCAPE ARCHITECTURAL SITE DETAILS



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Drawn	B. Luck	Approved	J. Lindner	Sheet 61 of 63