

DESIGN DESIGNATION CSAH 13
STA. 0+71.10 TO STA. 32+31.80

FUNTIONAL CLASSIFICATION MAJOR COLLECTOR
R-VALUE 5
ΣN-18 (35 YEAR RIGID) 872,000
NO. & WIDTH OF TRAFFIC LANES 2 & 11 ft
NO. & WIDTH OF PARKING LANES 2 & 9 ft
ADT (PRESENT YEAR) 2023 2,800
ADT (PROJECTED YEAR) 2059 3,255
HCA DT (PROJECTED YEAR) 2059 3.96%
DESIGN SPEED 30 mph
DESIGN LOAD 10 ton

DESIGN SPEED NOT ACHIEVED AT:
N/A

DESIGN SPEED FOR ROADWAY BASED ON
ON STOPPING SIGHT DISTANCE:
HEIGHT OF EYE = 3.5 FT
HEIGHT OF OBJECT = 2.0 FT

MINNESOTA DEPARTMENT OF TRANSPORTATION
CITY OF WASECA
WASECA COUNTY, MINNESOTA
COUNTY STATE AID HIGHWAY 13 (8TH AVENUE NE)

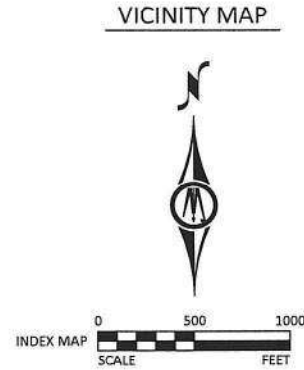
CONSTRUCTION PLAN FOR: GRADING, AGGREGATE BASE, PLANT MIXED BITUMINOUS PAVEMENT, CONCRETE CURB AND GUTTER, ADA IMPROVEMENTS,
STORM SEWER, SANITARY SEWER, WATER MAIN, STREET LIGHTING, AND RELATED APPURTENANCES

S.A.P. 081-613-011 & 172-020-009 LOCATED ON CSAH 13 FROM 3RD STREET NE TO 11TH STREET NE (GEOGRAPHICAL DESCRIPTION)
NW 1/4 OF SW 1/4 TO NW 1/4 OF SE 1/4 (LEGAL DESCRIPTION)
SECTION 8, T107N, R22W TO SECTION 8, T107N, R22W

CSAH 13 (S.A.P. 081-613-011 & 172-020-009)

GROSS LENGTH	3160.68	FEET	0.599	MILES
BRIDGE LENGTH	0.00	FEET	0.000	MILES
EXCEPTION LENGTH	0.00	FEET	0.000	MILES
NET LENGTH	3160.68	FEET	0.599	MILES

LENGTH AND DESCRIPTION BASED UPON
PROPOSED CSAH 13 CENTERLINE



BEGIN PROJECT: S.A.P. 081-613-011 &
172-020-009 (CSAH 13)
STA. 0+71.10

END PROJECT: S.A.P. 081-613-011 &
172-020-009 (CSAH 13)
STA. 32+31.80

PROJECT LOCATION



CITY: WASECA
COUNTY: WASECA
DISTRICT: 7

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY
QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED
ACCORDING TO THE GUIDELINES OF C/ASCE 38-02, ENTITLED
"STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF
EXISTING SUBSURFACE UTILITY DATA."

MINN. PROJ. NO. _____

--- GOVERNING SPECIFICATIONS ---
THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION
"STANDARD SPECIFICATION FOR CONSTRUCTION" SHALL GOVERN.
ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM AND BE INSTALLED IN
ACCORDANCE WITH THE LATEST "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES"
(MN MUTCD) AND PART VI, THE LATEST "FIELD MANUAL" FOR TEMPORARY TRAFFIC CONTROL
DEVICES.

SHEET NUMBER	SHEET TITLE
	GENERAL
1	TITLE SHEET
2	LEGEND
3	STATEMENT OF ESTIMATED QUANTITIES
	CIVIL
4-6	EXISTING CONDITIONS
7-12	REMOVAL PLAN
13-15	TABULATIONS
16-24	TYPICAL SECTIONS & DETAILS
25-41	STANDARD PLANS
42-47	STORMWATER POLLUTION PREVENTION PLAN
48-56	SANITARY SEWER & WATERMAIN PLAN & PROFILE
57-62	LIFT STATION PLAN & PROFILE
63-71	STORM SEWER PLAN & PROFILE
72-77	STREET PLAN & PROFILE
78-80	INTERSECTION DETAILS
81-83	CONCRETE JOINTING PLAN
84-87	TRAFFIC CONTROL PLAN
88-90	SIGNAGE & STRIPING PLAN
91-99	CROSS SECTIONS

THIS PLAN SET CONTAINS 99 SHEETS.

Jason L. Femrite, P.E.
Design Engineer: I hereby certify that this plan was prepared by me or under my direct supervision, and that
I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Date 12/15/2023 License Number 43869

Approved: City of Waseca Engineer Date 12-15-23

Approved: Waseca County Engineer Date 12/15/23

Lisa Bigham Digitally signed by Lisa Bigham
Date: 2024.01.10 14:48:56 -06'00' Date

District State Aid Engineer:
Reviewed for compliance with State Aid Rules/Policy

Lisa Bigham Digitally signed by Lisa Bigham
Date: 2024.01.10 14:49:31 -06'00' Date

Approved for State Aid Funding: State Aid Engineer

PROJECT DATUM:
HORIZONTAL: Waseca County Coordinate System
(2011 Adj.)
VERTICAL: NAVD 1988 In Feet

DESIGNED	NO.	ISSUED FOR	DATE
DRAWN			
CHECKED			
CLIENT PROJ. NO.			



1960 PREMIER DRIVE
MANKATO, MINNESOTA 56001
Phone: (507) 625-4171
Email: Mankato@bolton-menk.com
www.bolton-menk.com

CITY OF WASECA, MINNESOTA
8TH AVENUE NE (CSAH 13) RECONSTRUCTION
STATE AID PROJECT NO. 081-613-011 & 172-020-009

SHEET
1
OF
99

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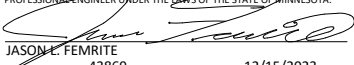
STATEMENT OF ESTIMATED QUANTITIES									
ITEM NO.	MNDOT SPEC NO.	ITEM	NOTES	UNIT	PARTICIPATING		STORM SEWER (A)	NON PARTICIPATING	TOTAL QUANTITY
					S.A.P. 083-613-011	S.A.P. 172-090-009			
1	2021.501	MOBILIZATION		LUMP SUM	0.45	0.55			1
2	2101.501	CLEARING & GRUBBING (HEDGES)		LUMP SUM	0.36	0.44		0.2	1
3	2101.502	CLEARING & GRUBBING (TREE)		EACH	0.45	0.55			1
4	2104.502	REMOVE SANITARY MANHOLE		EACH				17	17
5	2104.502	REMOVE STORM STRUCTURE		EACH			17	1	18
6	2104.502	REMOVE WATER MANHOLE		EACH				3	3
7	2104.502	REMOVE HYDRANT		EACH				6	6
8	2104.502	REMOVE SIGN		EACH	9.75	3.25			13
9	2104.502	SALVAGE SIGN		EACH	13.5	4.5			18
10	2104.502	SALVAGE & REINSTALL MAILBOX		EACH	15.75	5.25			21
11	2104.503	REMOVE SEWER PIPE (STORM)		LIN FT			1256	28	1284
12	2104.503	REMOVE SEWER PIPE (SANITARY)		LIN FT				2623	2623
13	2104.503	REMOVE WATERMAIN		LIN FT				3615	3615
14	2104.503	REMOVE CURB & GUTTER	(9)	LIN FT	300	100			400
15	2104.504	REMOVE BITUMINOUS PAVEMENT	(9)	SQ YD	1329.75	443.25			1773
16	2104.504	REMOVE CONCRETE PAVEMENT	(9)	SQ YD	11961	3987			15948
17	2104.504	REMOVE CONCRETE WALK/DRIVEWAY	(9)	SQ YD	525	1235			1760
18	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	(9)	SQ YD	186.75	96.25			283
19	2106.507	EXCAVATION - COMMON (P)		CU YD	9436	3145			12581
20	2106.507	EXCAVATION - SUBGRADE (EV)	(1)(2)	CU YD	1012.5	337.5			1350
21	2106.507	COMMON EMBANKMENT (CV) (P)		CU YD	812.25	270.75			1083
22	2106.507	SELECT GRANULAR EMBANKMENT (CV) (P)		CU YD	8357.25	2785.75			11143
23	2106.507	STABILIZING AGGREGATE (CV)	(1)(2)	CU YD	1012.5	337.5			1350
24	2106.601	DEWATERING		LUMP SUM				1	1
25	2108.504	GEOTEXTILE FABRIC TYPE 9		SQ YD	12612.75	4204.25			16817
26	2118.507	AGGREGATE SURFACING (CV) CLASS 2		CU YD	14	7			20
27	2123.510	COMMON LABORERS	(1)(3)	HOURL	4.50	5.50		30	40
28	2123.510	3.0 CU YD SHOVEL	(1)(3)	HOURL	2.25	2.75		15	20
29	2123.510	DOZER	(1)(3)	HOURL	2.25	2.75		15	20
30	2123.510	4 CU YD FRONT END LOADER	(1)(3)	HOURL	2.25	2.75		15	20
31	2123.510	TAMPING ROLLER	(1)(3)	HOURL	2.25	2.75		15	20
32	2123.510	SKID LOADER	(1)(3)	HOURL	2.25	2.75		15	20
33	2123.510	STREET SWEEPER (WITH PICKUP BROOM)	(1)(3)	HOURL	18	22			40
34	2211.507	AGGREGATE BASE (CV) CLASS 5 (P)		CU YD	2416	805			3221
35	2301.503	DOWELLED EXPANSION JOINT; DESIGN E1H-D		LIN FT	240	80			320
36	2301.504	CONCRETE PAVEMENT 7.5"		SQ YD	9751.5	3250.5			13002
37	2301.508	SUPPLEMENTAL PAVEMENT REINFORCEMENT		POUND	7777.5	2592.5			10370
38	2301.602	1.0" DOWEL BARS		EACH	5865	1955			7820
39	2301.602	DRILL & GROUT DOWEL BAR (EPOXY COATED)		EACH	27	9			36
40	2301.603	PERMANENT HEADER		LIN FT	57	19			76
41	2360.504	BITUMINOUS DRIVEWAY PATCH		SQ YD	82	58			140
42	2360.504	TYPE SP 9.5 WEARING COURSE MIX (3,C) 1.5" THICK		SQ YD	1373.25	457.75			1831
43	2360.504	TYPE SP 12.5 NON WEAR COURSE MIX (3,C) 2.5" THICK		SQ YD	1168	389			1557
44	2360.504	BITUMINOUS TRAIL 3.5" THICK		SQ YD		816			816
45	2501.502	36" RC PIPE APRON		EACH			1		1
46	2502.503	6" PERFORATED PVC PIPE DRAIN	(4)	LIN FT	4553.25	1517.75		436	6507
47	2502.602	SUMP PUMP SERVICE LINE	(4)	EACH				39	39
48	2502.602	EDGE DRAIN CLEANOUT		EACH	12.75	4.25			17
49	2503.503	12" RCP STORM SEWER		LIN FT			446		446
50	2503.503	15" RCP STORM SEWER		LIN FT			1171		1171
51	2503.503	24" RCP STORM SEWER		LIN FT			32		32
52	2503.503	36" RCP STORM SEWER		LIN FT			501		501
53	2503.503	22" SPAN RC PIPE-ARCH SEWER CL IIIA		LIN FT			115		115
54	2503.503	28" SPAN RC PIPE-ARCH SEWER CL IIIA		LIN FT			143		143
55	2503.503	36" SPAN RC PIPE-ARCH SEWER CL IIIA		LIN FT			194		194
56	2503.503	44" SPAN RC PIPE-ARCH SEWER CL IIIA		LIN FT			860		860
57	2503.601	SANITARY BYPASS PUMPING		LUMP SUM				1	1
58	2503.601	SANITARY LIFT STATION MODIFICATIONS		LUMP SUM				1	1
59	2503.601	SANITARY LIFT STATION PUMP REHAB		LUMP SUM				1	1
60	2503.602	CONNECT TO EXISTING SANITARY SEWER		EACH				9	9
61	2503.602	CONNECT TO EXISTING SANITARY MANHOLE		EACH				2	2
62	2503.602	CONNECT TO EXISTING STORM SEWER		EACH			8		8
63	2503.602	CONNECT TO EXISTING DRAIN TILE		EACH				3	3
64	2503.602	15"x6" WYE		EACH				23	23
65	2503.602	18"x6" WYE		EACH				8	8
66	2503.602	SERVICE CONNECTION TO LINED PIPE	(4)	EACH				12	12
67	2503.603	PLUG FILL & ABANDON PIPE SEWER		LIN FT				1510	1510
68	2503.603	6" SANITARY SEWER SERVICE	(4)	LIN FT				1872	1872

STATEMENT OF ESTIMATED QUANTITIES									
ITEM NO.	MNDOT SPEC NO.	ITEM	NOTES	UNIT	PARTICIPATING		STORM SEWER (A)	NON PARTICIPATING	TOTAL QUANTITY
					S.A.P. 083-613-011	S.A.P. 172-090-009			
69	2503.603	8" SANITARY SEWER		LIN FT				218	218
70	2503.603	12" SANITARY SEWER		LIN FT				25	25
71	2503.603	15" SANITARY SEWER		LIN FT				1418	1418
72	2503.603	18" SANITARY SEWER		LIN FT				327	327
73	2503.603	6" PVC FORCE MAIN	(4)	LIN FT				136	136
74	2503.603	8" PVC FORCE MAIN	(4)	LIN FT				38	38
75	2506.603	CONSTRUCT 8" OUTSIDE DROP		LIN FT				15.1	15
76	2504.601	TEMPORARY WATER SERVICE		LUMP SUM				1	1
77	2504.602	CONNECT TO EXISTING WATERMAIN		EACH				12	12
78	2504.602	4" GATE VALVE & BOX		EACH				2	2
79	2504.602	6" GATE VALVE & BOX		EACH				9	9
80	2504.602	8" GATE VALVE & BOX		EACH				22	22
81	2504.602	HYDRANT (8.5' BURY)		EACH				7	7
82	2504.602	HYDRANT (9.5' BURY)		EACH				1	1
83	2504.602	1" CURB STOP & BOX		EACH				45	45
84	2504.602	1" CORP STOP & SADDLE		EACH				45	45
85	2504.602	ZINC ANODE BAG		EACH				7	7
86	2504.603	1" WATER SERVICE		LIN FT				1807	1807
87	2504.603	TRENCHLESS 1" WATER SERVICE		LIN FT				383	383
88	2504.603	4" WATERMAIN		LIN FT				72	72
89	2504.603	6" WATERMAIN		LIN FT				164	164
90	2504.603	8" WATERMAIN		LIN FT				3485	3485
91	2504.604	4" POLYSTYRENE INSULATION		SQ YD				38	38
92	2504.608	WATERMAIN FITTINGS		POUND				2567	2567
93	2506.502	CASTING ASSEMBLY-STORM		EACH			44	1	45
94	2506.502	CASTING ASSEMBLY-SANITARY WITH INFI-SHIELD		EACH				16	16
95	2506.502	CONSTRUCT DRAINAGE STRUCTURE, DESIGN SPECIAL 1	(5)	EACH			2		2
96	2506.502	CONSTRUCT DRAINAGE STRUCTURE, DESIGN SPECIAL 2	(6)	EACH				1	1
97	2506.502	CONSTRUCT DRAINAGE STRUCTURE INLINE DRAIN		EACH				1	1
98	2506.502	ADJUST FRAME & RING CASTING		EACH				1	1
99	2506.503	CONSTRUCT DRAINAGE STRUCTURE, DESIGN R-1		LIN FT			81.0		81.0
100	2506.503	CONSTRUCT DRAINAGE STRUCTURE, 4020-48"		LIN FT			30.7		30.7
101	2506.503	CONSTRUCT DRAINAGE STRUCTURE, 4020-60"		LIN FT			8.5		8.5
102	2506.503	CONSTRUCT DRAINAGE STRUCTURE, 4020-72"		LIN FT			24.1		24.1
103	2506.503	CONSTRUCT DRAINAGE STRUCTURE, 4020-84"		LIN FT			18.2		18.2
104	2506.503	CONSTRUCT DRAINAGE STRUCTURE, 4022-48"		LIN FT			5.7		5.7
105	2506.503	CONSTRUCT DRAINAGE STRUCTURE, SD-60"		LIN FT			6.4		6.4
106	2506.503	CONSTRUCT DRAINAGE STRUCTURE, SD-72"		LIN FT			7.0		7.0
107	2506.503	CONSTRUCT SANITARY MANHOLE		LIN FT				108.2	108.2
108	2506.503	CONSTRUCT SANITARY MANHOLE DESIGN SPECIAL		LIN FT				20.9	20.9
109	2511.509	RANDOM RIPRAP CLASS III		TON			50		50
110	2521.518	4" CONCRETE WALK		SQ FT		9684			9684
111	2521.518	6" CONCRETE WALK		SQ FT		3482			3482
112	2531.503	CONCRETE CURB & GUTTER DESIGN B624		LIN FT	4582.5	1527.5			6110
113	2531.503	CONCRETE CURB & GUTTER DESIGN B624 WITH SILL		LIN FT	273	91			364
114	2531.504	6" CONCRETE DRIVEWAY PAVEMENT		SQ YD	810	584			1394
115	2531.618	TRUNCATED DOMES		SQ FT		237			237
116	2563.601	TRAFFIC CONTROL	(7)	LUMP SUM	0.45	0.55			1
117	2563.603	SAFETY FENCING	(1)(8)	LIN FT	750	250			1000
118	2564.518	SIGN PANELS TYPE C		SQ FT	93.90	31.30			125
119	2564.602	INSTALL SIGN		EACH	13.5	4.5			18
120	2573.501	STABILIZED CONSTRUCTION EXIT		LUMP SUM	0.45	0.55			1
121	2573.502	STORM DRAIN INLET PROTECTION		EACH	18.45	22.55			41
122	2573.503	FLOTATION SILT CURTAIN TYPE STILL WATER		LIN FT	31.50	38.50			70
123	2573.503	SEDIMENT CONTROL LOG TYPE WOOD FIBER	(1)	LIN FT	2790	3410			6200
124	2574.507	COMMON TOPSOIL BORROW (CV) (P)		CU YD	1417	923			2340
125	2575.505	TURF ESTABLISHMENT		ACRE	1.76	1.15			2.90
126	2575.505	TEMPORARY SEEDING		ACRE	1.76	1.15			2.90
127	2575.523	RAPID STABILIZATION METHOD 3	(1)	M GAL	2.7	3.3			6
128	2582.503	12" SOLID LINE WHITE - MULTI-COMPONENT GROUND IN (WR)		LIN FT	216	72			288
129	2582.503	6" SOLID LINE WHITE - MULTI-COMPONENT GROUND IN (WR)		LIN FT	4315.5	1438.5			5754
130	2582.503	4" DOUBLE SOLID LINE YELLOW - MULTI-COMPONENT GROUND IN (WR)		LIN FT	2145	715			2860

NOTES:
(P) DENOTES PLAN QUANTITY
(CV) DENOTES COMPACTED VOLUME QUANTITY
(EV) DENOTES EXCAVATED VOLUME
(WR) DENOTES WET REFLECTIVE

BASIS OF ESTIMATED QUANTITIES:
RANDOM RIPRAP CL III 1.35 TON/CY

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.


JASON L. FEMRITE
P.E. NO. 43869

DATE 12/15/2023



1960 PREMIER DRIVE
MANKATO, MINNESOTA 56001
Phone: (507) 625-4171
Email: Mankato@bolton-menk.com
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CITY OF WASECA, MINNESOTA
8TH AVENUE NE (CSAH 13) RECONSTRUCTION
SEQ
S.A.P. 081-613-011 & S.A.P. 172-020-009

(A) 55% COUNTY/45% CITY

(1) QUANTITY IS STRICTLY AN ESTIMATE AND MAY BE INCREASED OR DECREASED BY ANY AMOUNT WITHOUT A CHANGE IN THE UNIT PRICE.

(2) ITEM TO BE USED AS DIRECTED BY THE ENGINEER DURING ROADWAY CONSTRUCTION FOR CORRECTIVE EXCAVATION BEYOND THE PLANNED TYPICAL SECTION.

(3) ITEM TO BE USED FOR EXPLORATORY EXCAVATION AND OTHER MISCELLANEOUS WORK AS DIRECTED BY THE ENGINEER.

(4) ITEM INCLUDES BENDS AND FITTINGS NECESSARY FOR CONSTRUCTION OF ITEM.

(5) ITEM INCLUDES STRUCTURE AND SAFL BAFFLE.

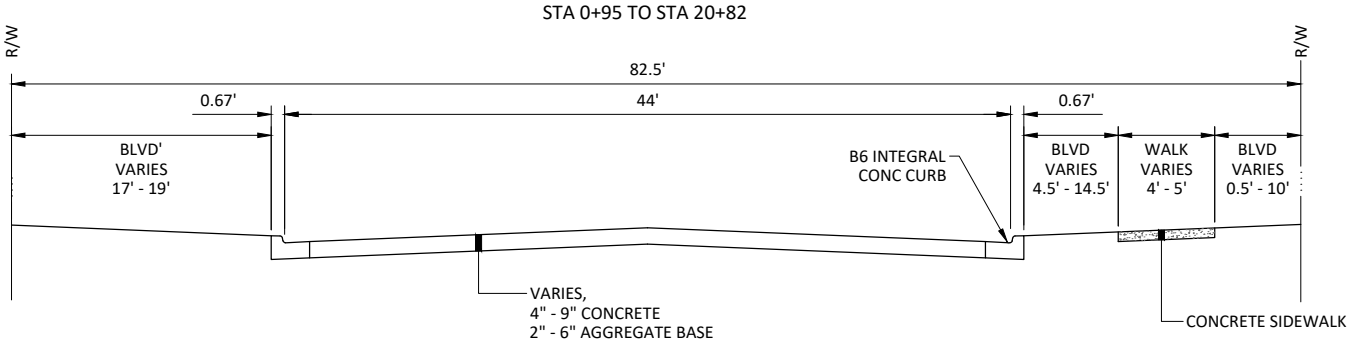
(6) ITEM INCLUDES ONLY STRUCTURE. PUMP, RAILS, CONTROL PANEL, WIRING, AND PIPING TO BE INSTALLED BY CITY.

(7) ITEM TO INCLUDE AN ADDITIONAL 10 TYPE III BARRICADES AND 40 BARRELS FOR USE AS DIRECTED BY ENGINEER.

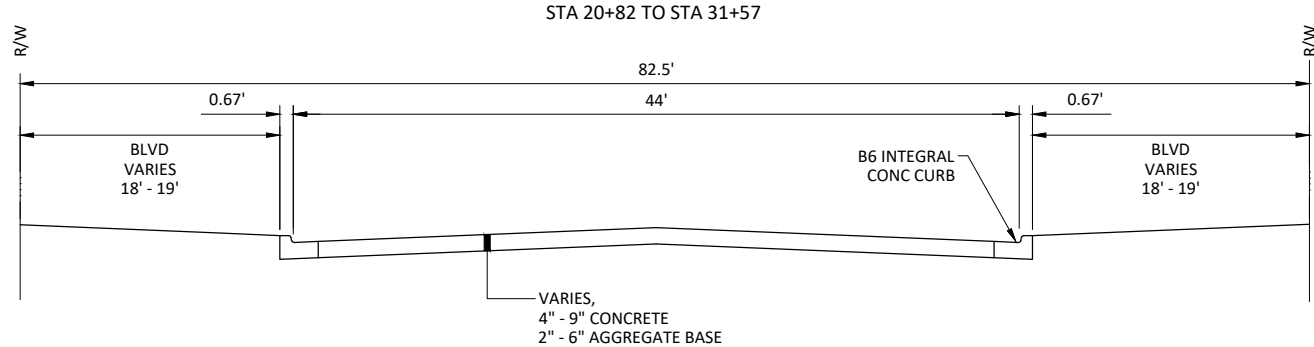
(8) ITEM TO BE USED AS DIRECTED BY THE ENGINEER FOR PROTECTING SENSITIVE AREAS AND PREVENTING COUNTY FAIR/PARK ATTENDEES FROM ACCESSING THE CONSTRUCTION SITE.

(9) MAY BE DISPOSED OF AT COUNTY SOLID WASTE FACILITY, 31080 STATE HWY 13, FOR NO FEE.

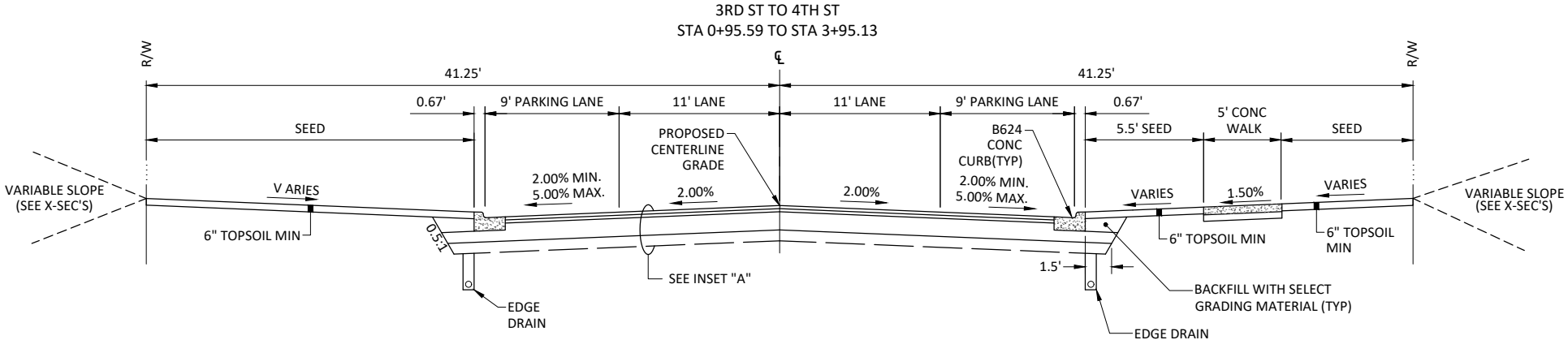
EXISTING TYPICAL SECTION



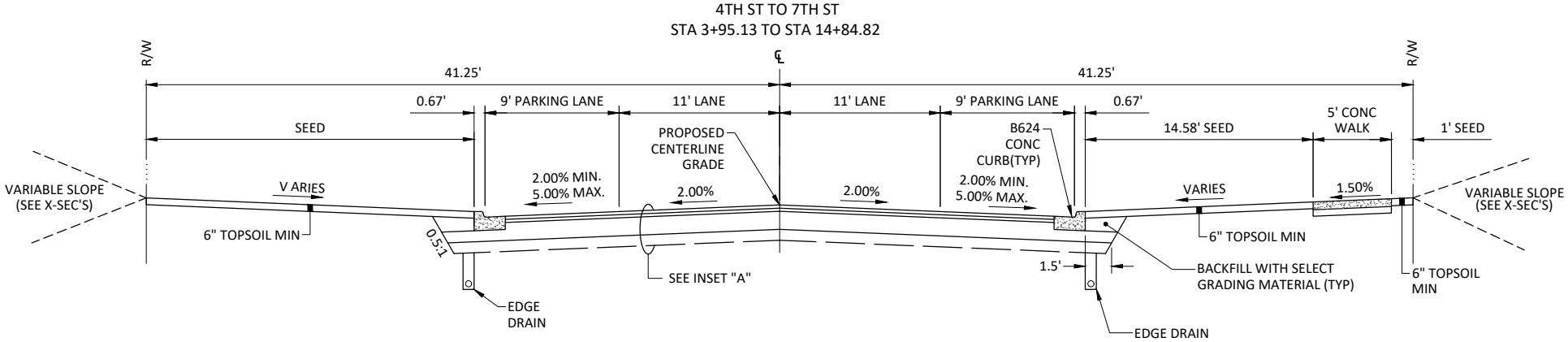
EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION

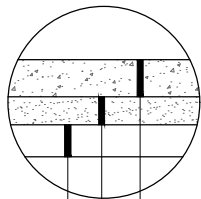


PROPOSED TYPICAL SECTION



NOTES:

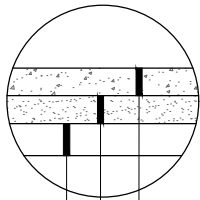
1. ANY VARIATIONS FROM THE TYPICAL SECTION DIMENSIONS ARE SHOWN ON THE PLAN DRAWINGS
2. PAVEMENT SLOPES AT INTERSECTION LOCATIONS MAY VARY FROM THOSE SHOWN ON THE TYPICAL SECTION



6" CONCRETE DRIVEWAY

NOT TO SCALE

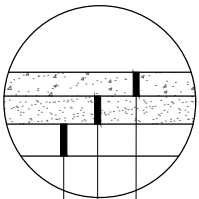
NOTE: CONCRETE AREAS TRANSITIONING FROM DRIVEWAY THICKNESS TO WALK THICKNESS WILL BE PAID AS WALK



6" CONCRETE WALK

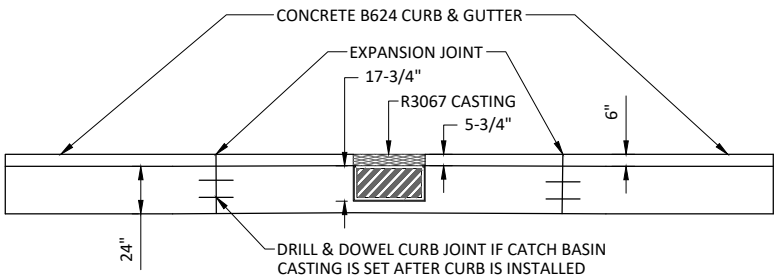
NOT TO SCALE

NOTE: CONCRETE AREAS TRANSITION FROM 6" WALK TO 4" WALK WILL BE PAID AS 4" WALK



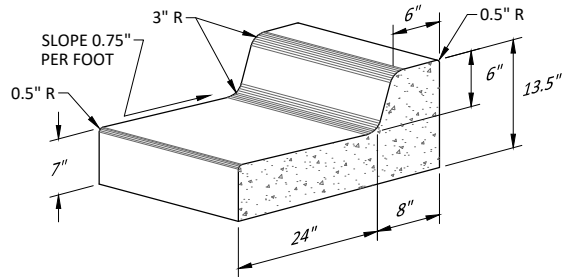
4" CONCRETE WALK

NOT TO SCALE



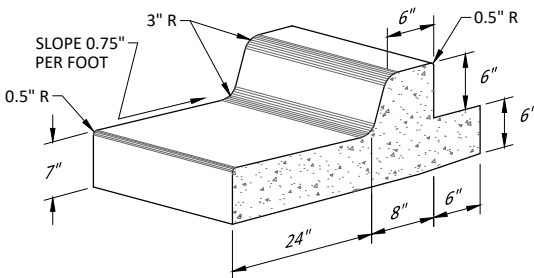
CATCHBASIN - CURB DETAIL FOR R-3067 IN "B" STYLE CURB

NOT TO SCALE



CONCRETE CURB & GUTTER DESIGN B624

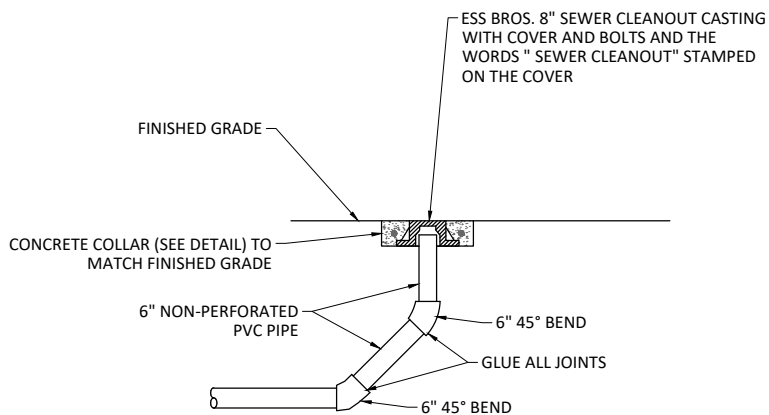
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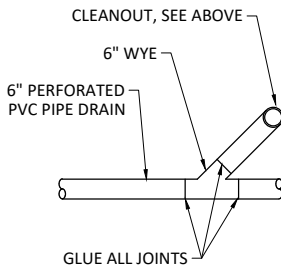
*NOTE:
CURB & GUTTER WITH SILL IS TO BE
USED IN ALL LOCATIONS WHERE
SIDEWALK IS ON THE BACK OF CURB.

CONCRETE CURB & GUTTER DESIGN B624 WITH SILL

NOT TO SCALE



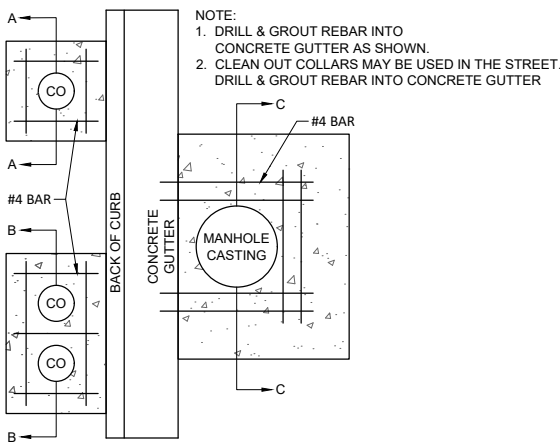
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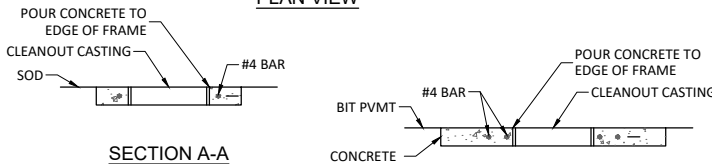
PLAN

- NOTE:
1. BENDS & RISER TO BE SAME SIZE AS DRAIN TILE MAIN.
 2. CLEANOUTS SHALL BE INSTALLED AT LOCATIONS SHOWN ON THE PLAN.
 3. BID ITEM FOR EDGE DRAIN CLEANOUT SHALL INCLUDE FITTINGS, RISER PIPE, CASTING, AND CONCRETE CASTING COLLAR.

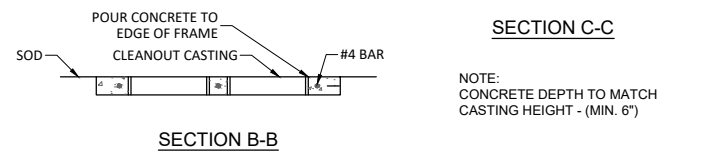
EDGE DRAIN CLEANOUT



PLAN VIEW

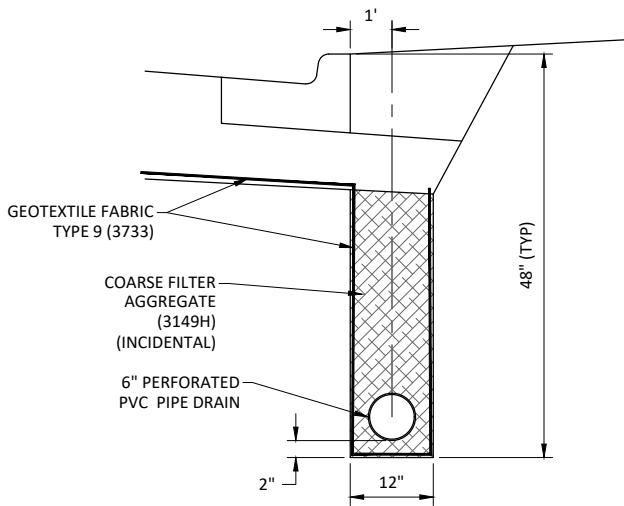


SECTION A-A



SECTION B-B

CONCRETE CASTING COLLAR



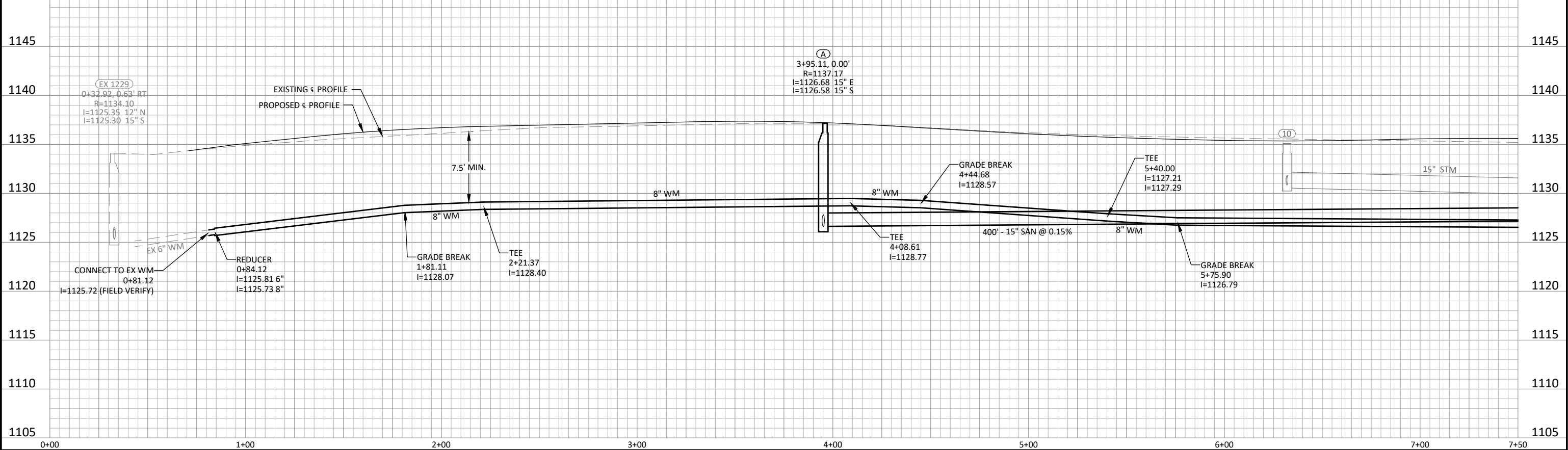
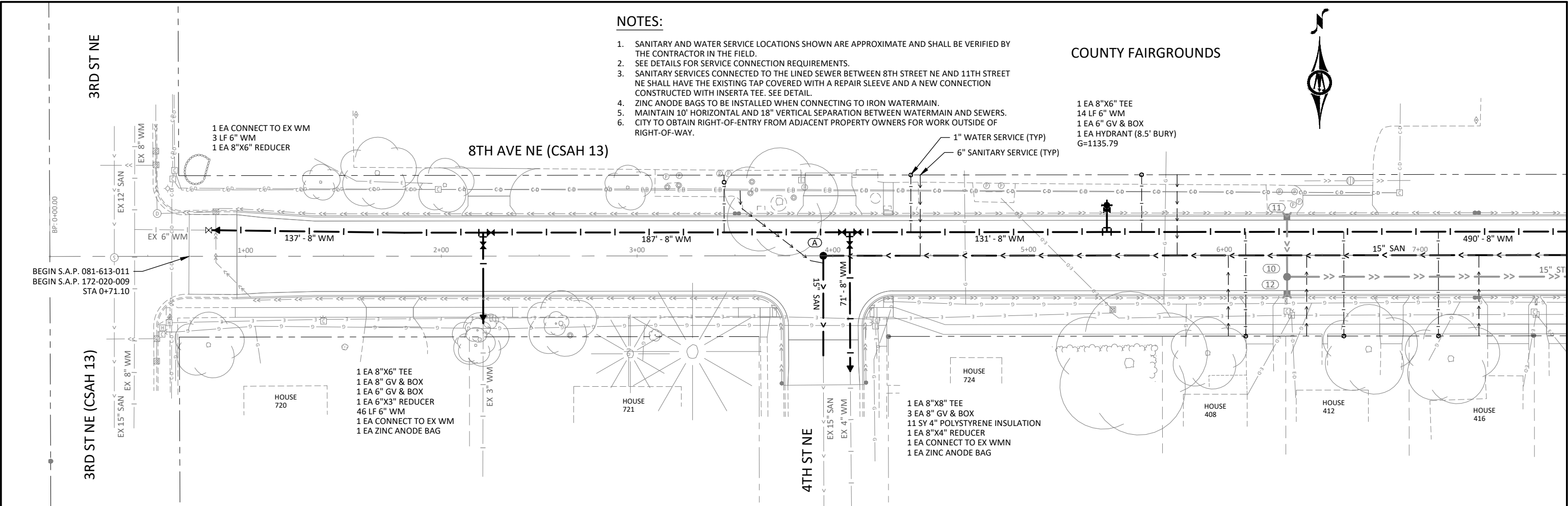
SUBSURFACE ROADWAY EDGE DRAIN COARSE AGGREGATE

NOT TO SCALE

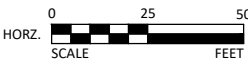
NOTES:

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2. SEE DETAILS FOR SERVICE CONNECTION REQUIREMENTS.
3. SANITARY SERVICES CONNECTED TO THE LINED SEWER BETWEEN 8TH STREET NE AND 11TH STREET NE SHALL HAVE THE EXISTING TAP COVERED WITH A REPAIR SLEEVE AND A NEW CONNECTION CONSTRUCTED WITH INSERTA TEE. SEE DETAIL.
4. ZINC ANODE BAGS TO BE INSTALLED WHEN CONNECTING TO IRON WATERMAIN.
5. MAINTAIN 10' HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN WATERMAIN AND SEWERS.
6. CITY TO OBTAIN RIGHT-OF-ENTRY FROM ADJACENT PROPERTY OWNERS FOR WORK OUTSIDE OF RIGHT-OF-WAY.

COUNTY FAIRGROUNDS



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Jason L. Femrite
JASON L. FEMRITE
P.E. NO. 43869 DATE 12/15/2023



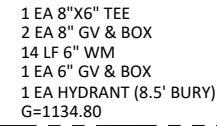
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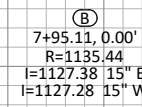
CITY OF WASECA, MINNESOTA
8TH AVENUE NE (CSAH 13) RECONSTRUCTION
SANITARY SEWER & WATER PLAN & PROFILE
S.A.P. 081-613-011 & S.A.P. 172-020-009

SHEET
48
OF
99

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4 EA 8" 22.5° BEND
9 SY 4" POLYSTYRENE INSULATION
(PLACED ABOVE AND BELOW WM AT OFFSET)



— PROPOSED C PROFILE
/ EXISTING C PROFILE

11+95.11, 0.00'
 R=1134.21
 I=1128.08 15" E
 I=1127.98 15" W

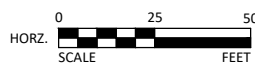
10+30.00
I=1126.22
I=1126.30

22.5° BEND-
13+13.54
l=1125.34

22.5° BEND-
13+15.86

22.5° BEND
13+28.29
I=1125.30

—22.5° BEND
13+25.86
l=1126.29



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JASON L. FEMRITE

PL. NO. 43869 DATE 12/15/2023

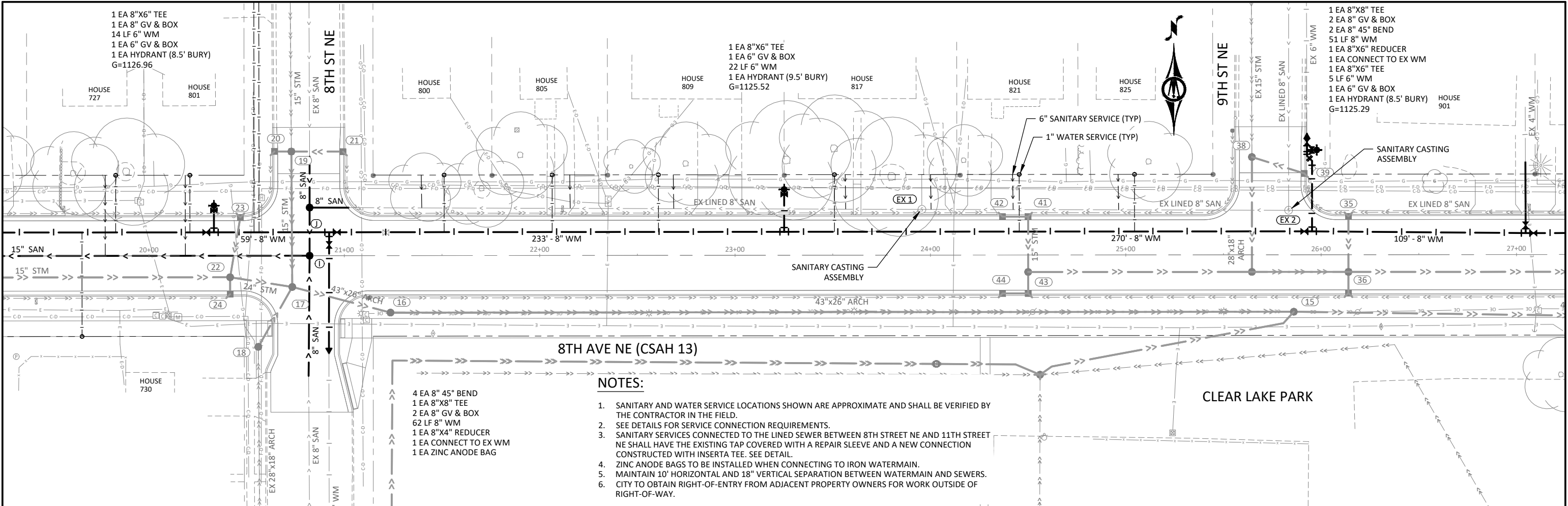


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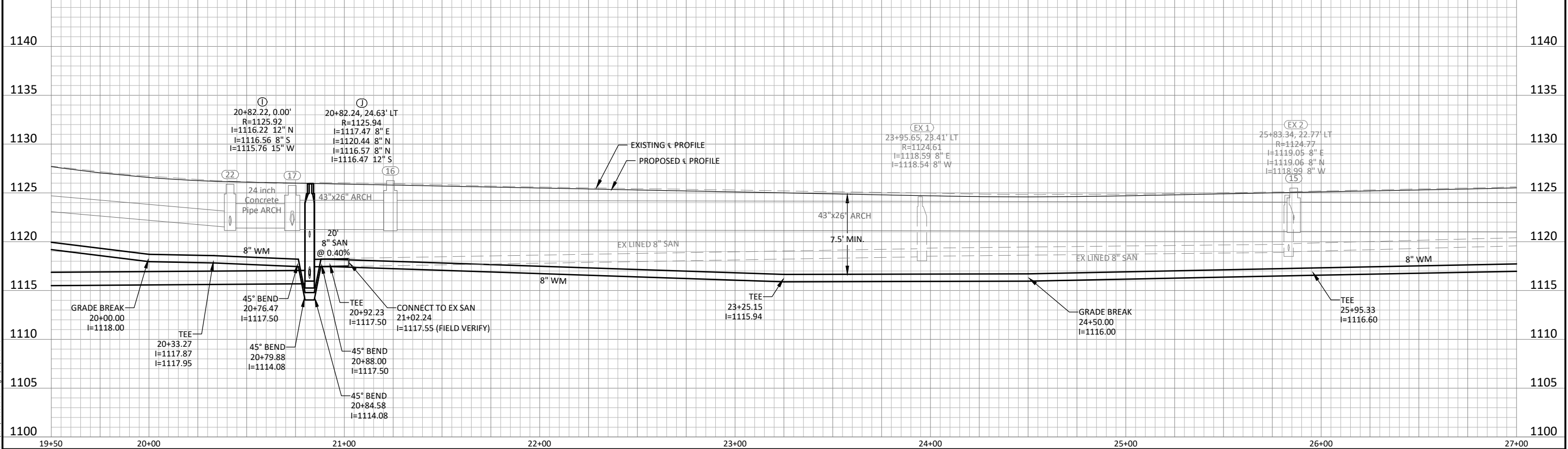
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SANITARY SEWER & WATER PLAN & PROFILE
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SCALE
FEET

0 5 10
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FEET

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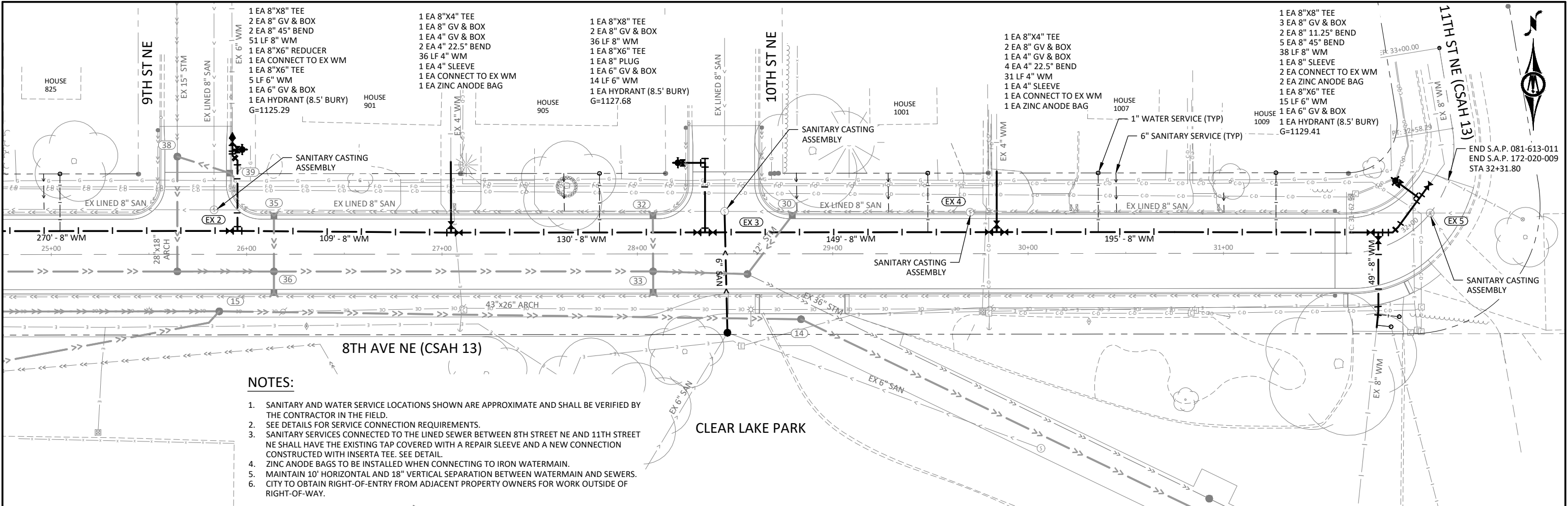


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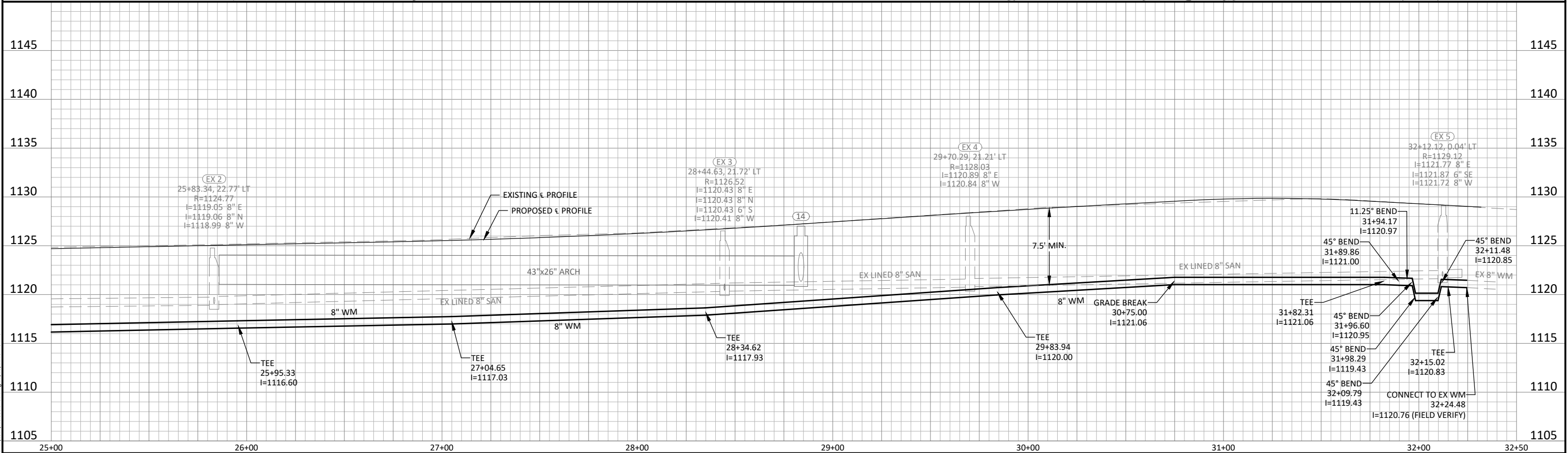
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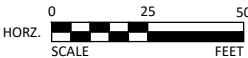


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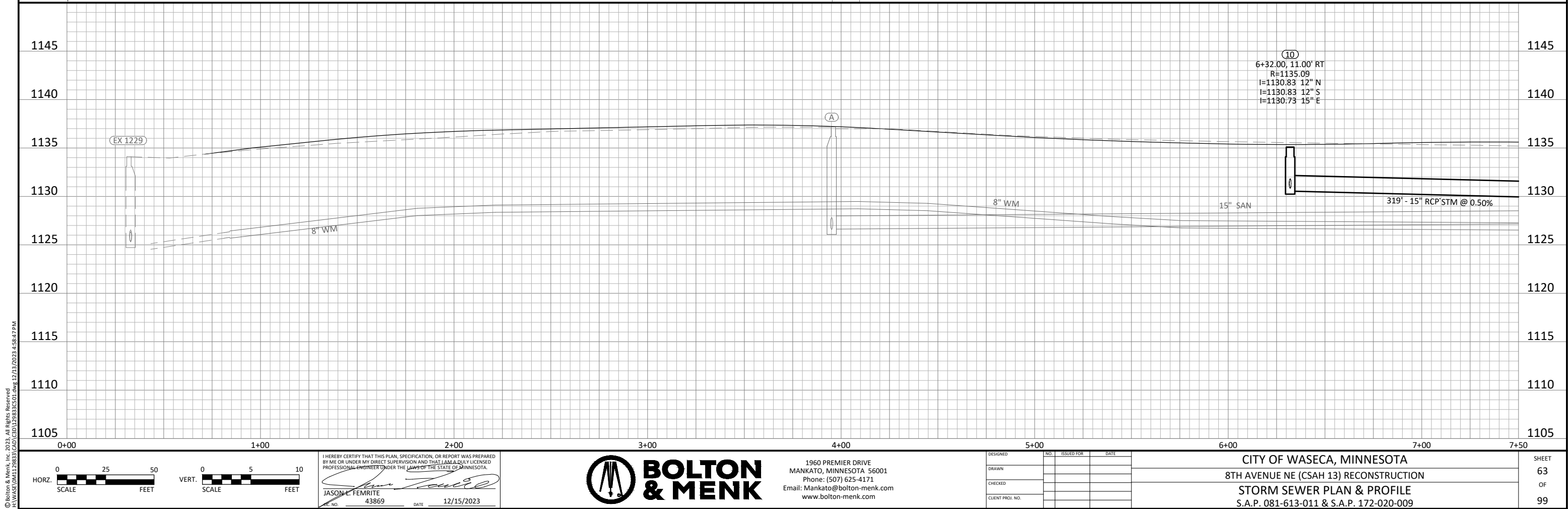
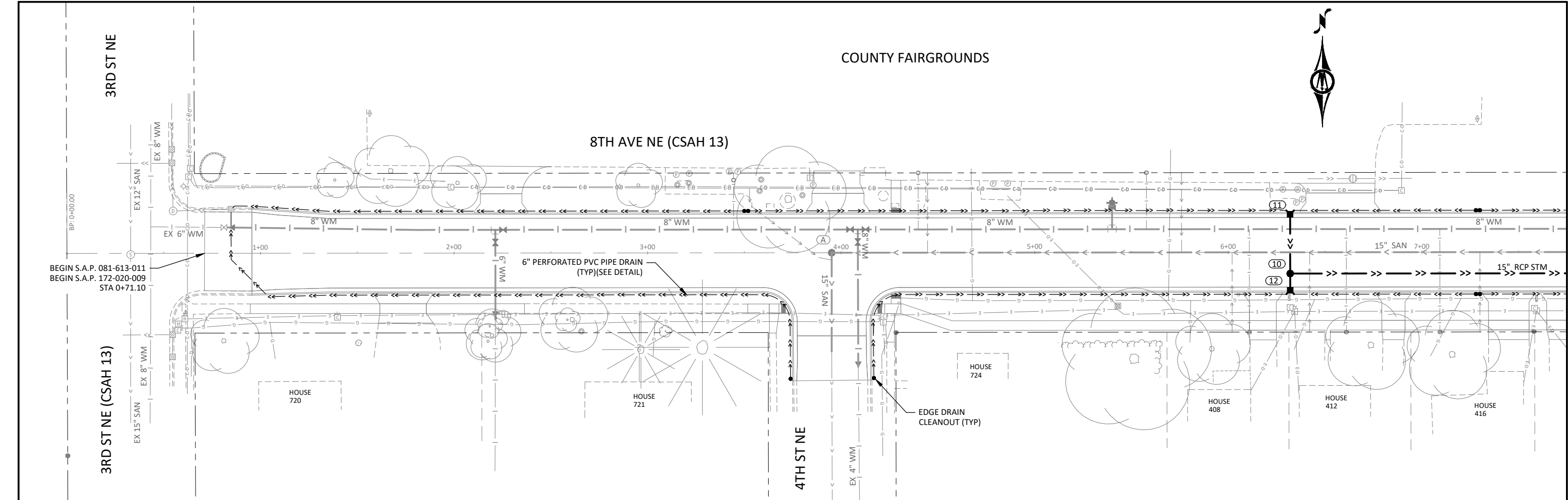


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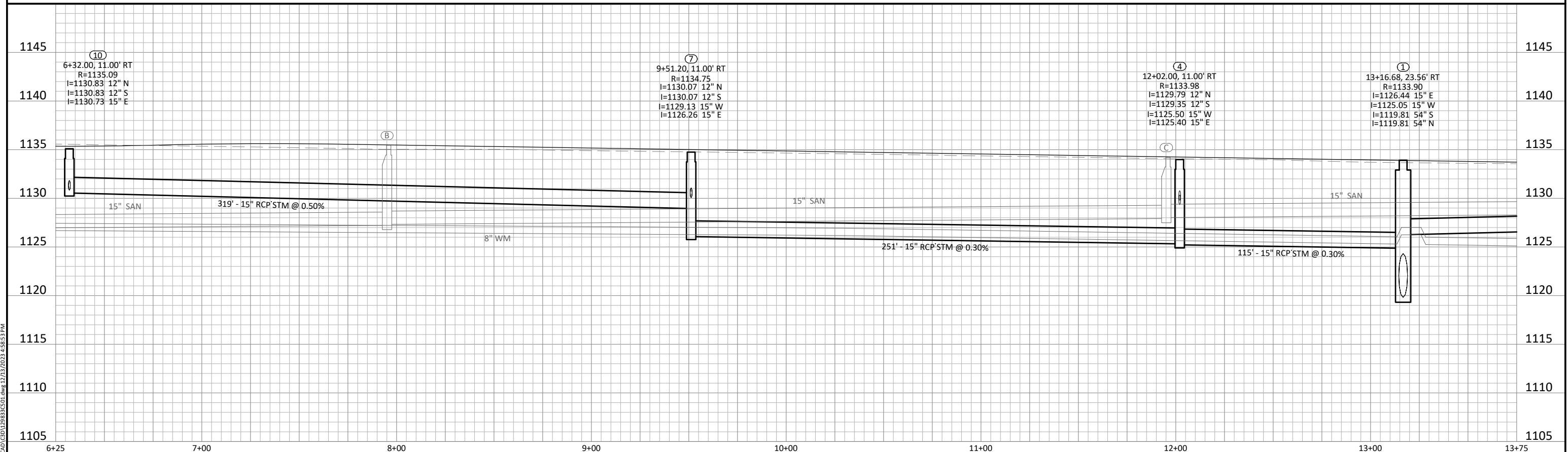
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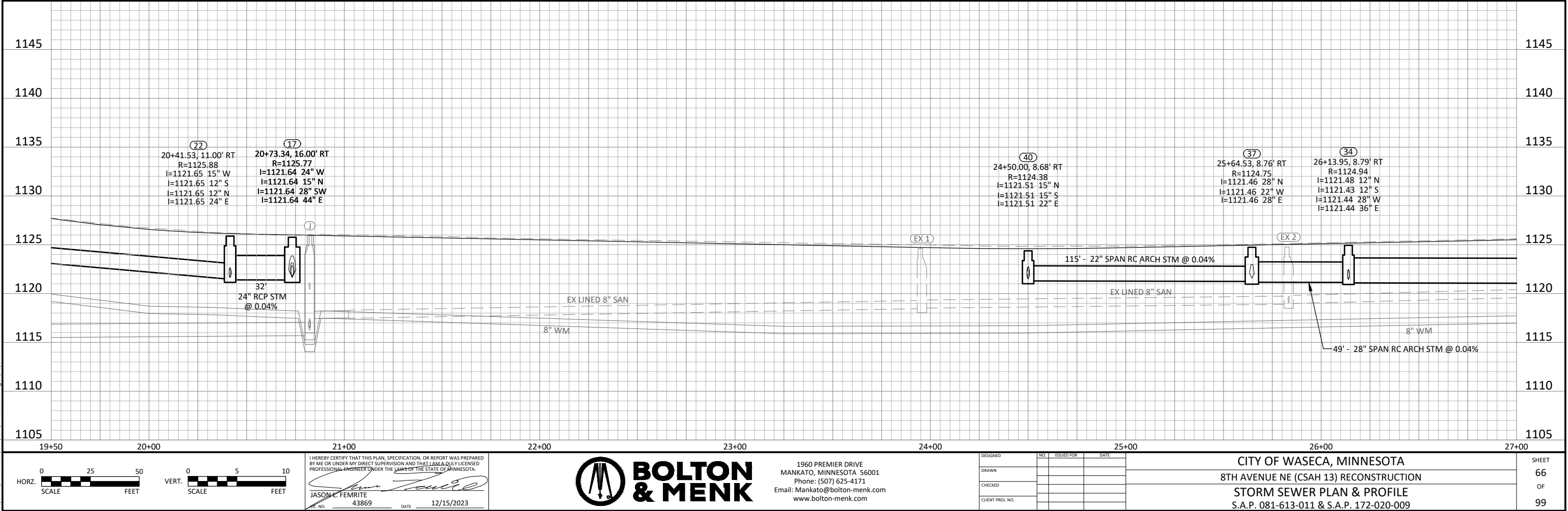
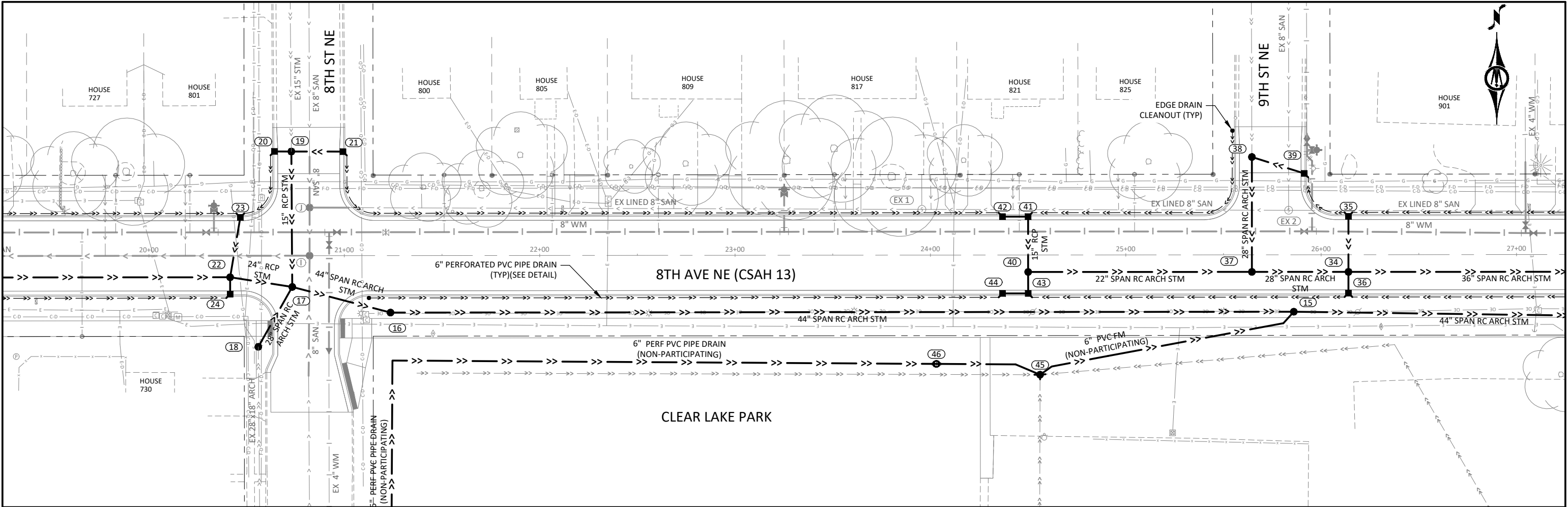
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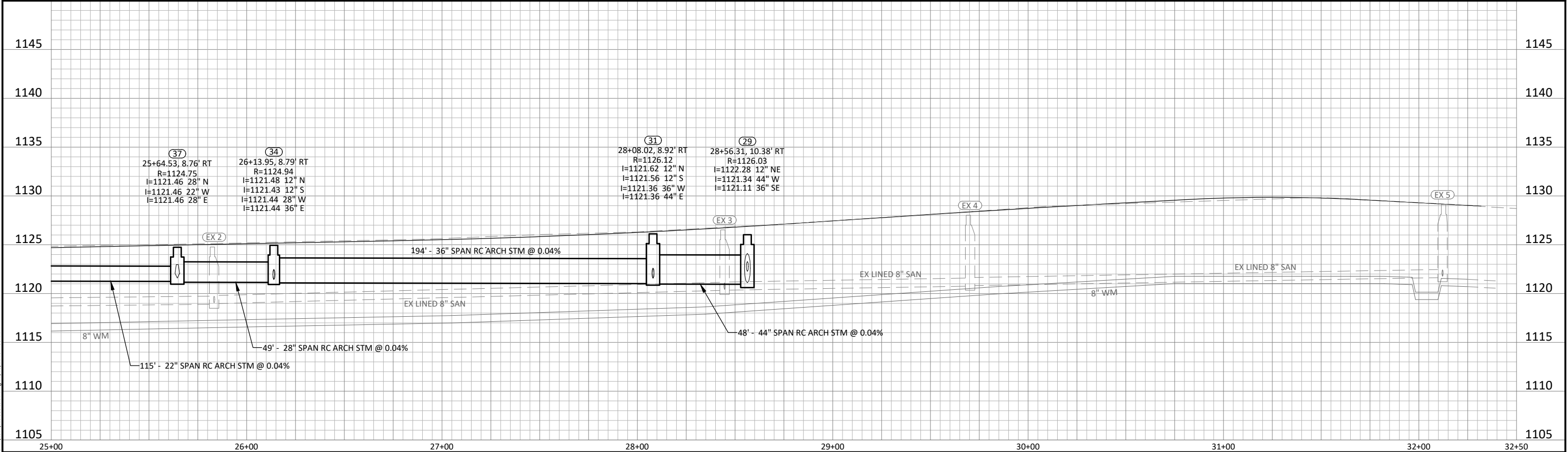
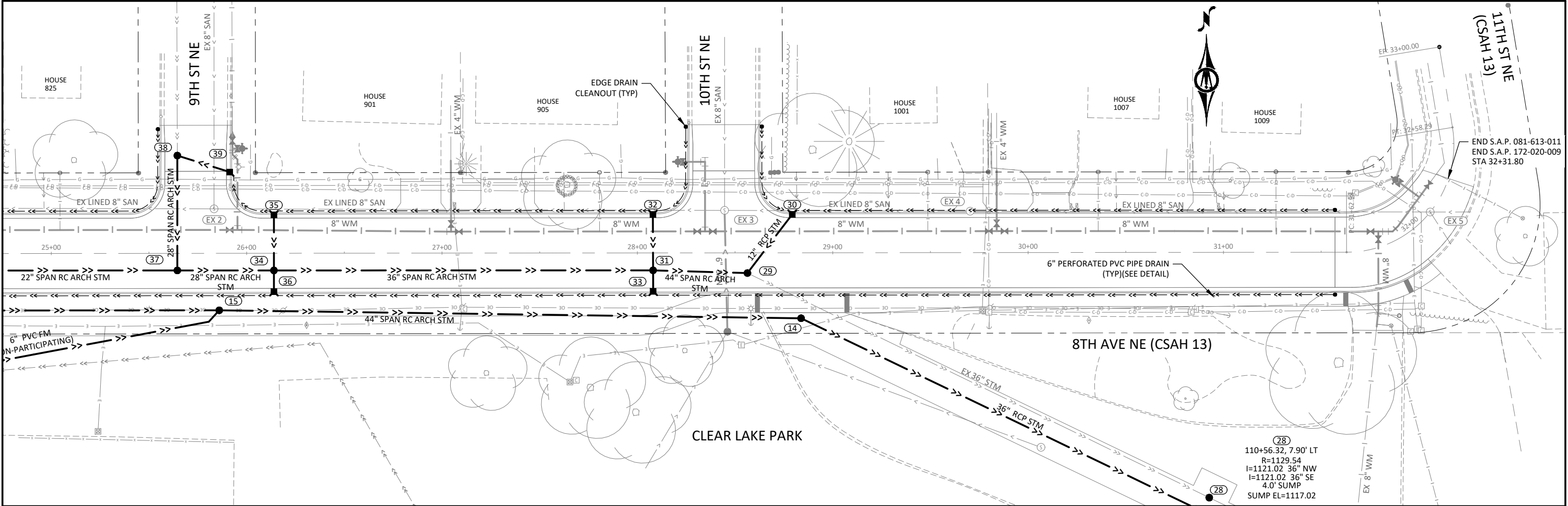


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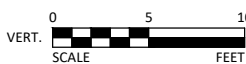
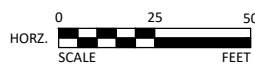
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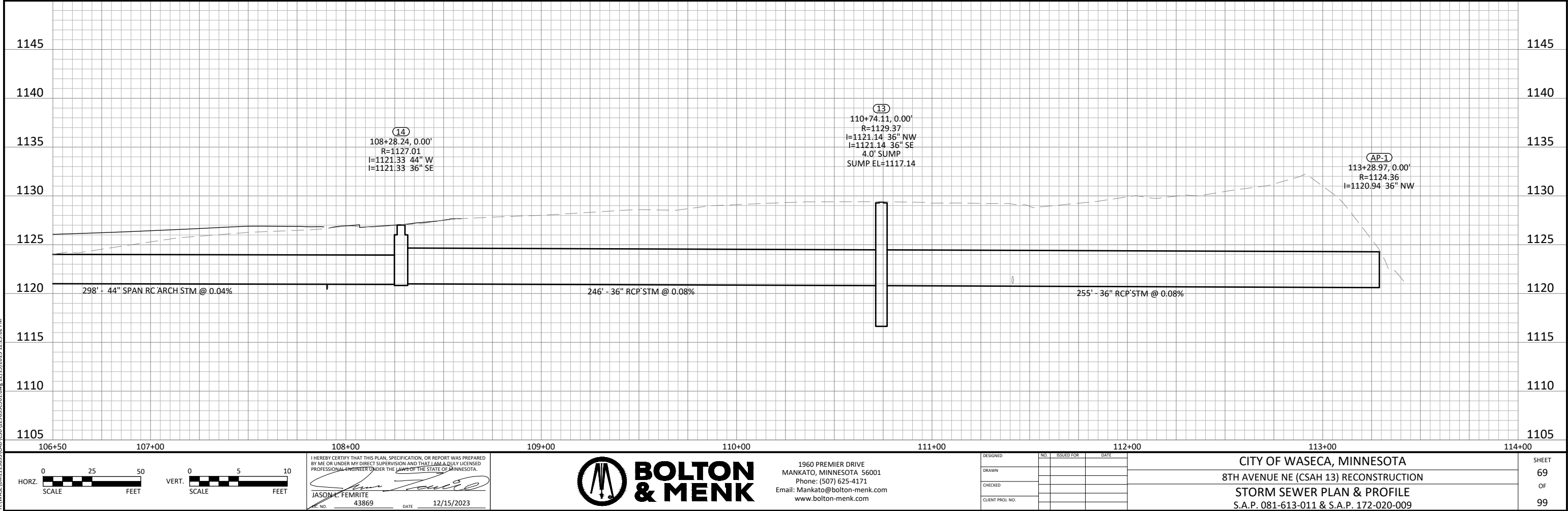
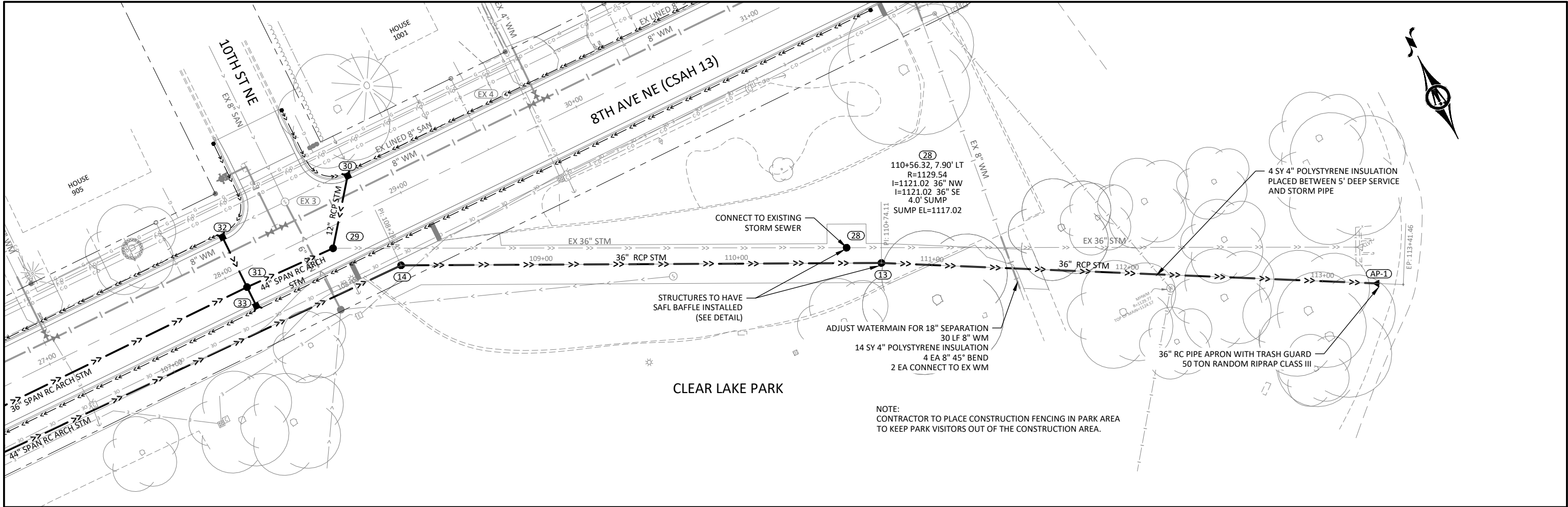


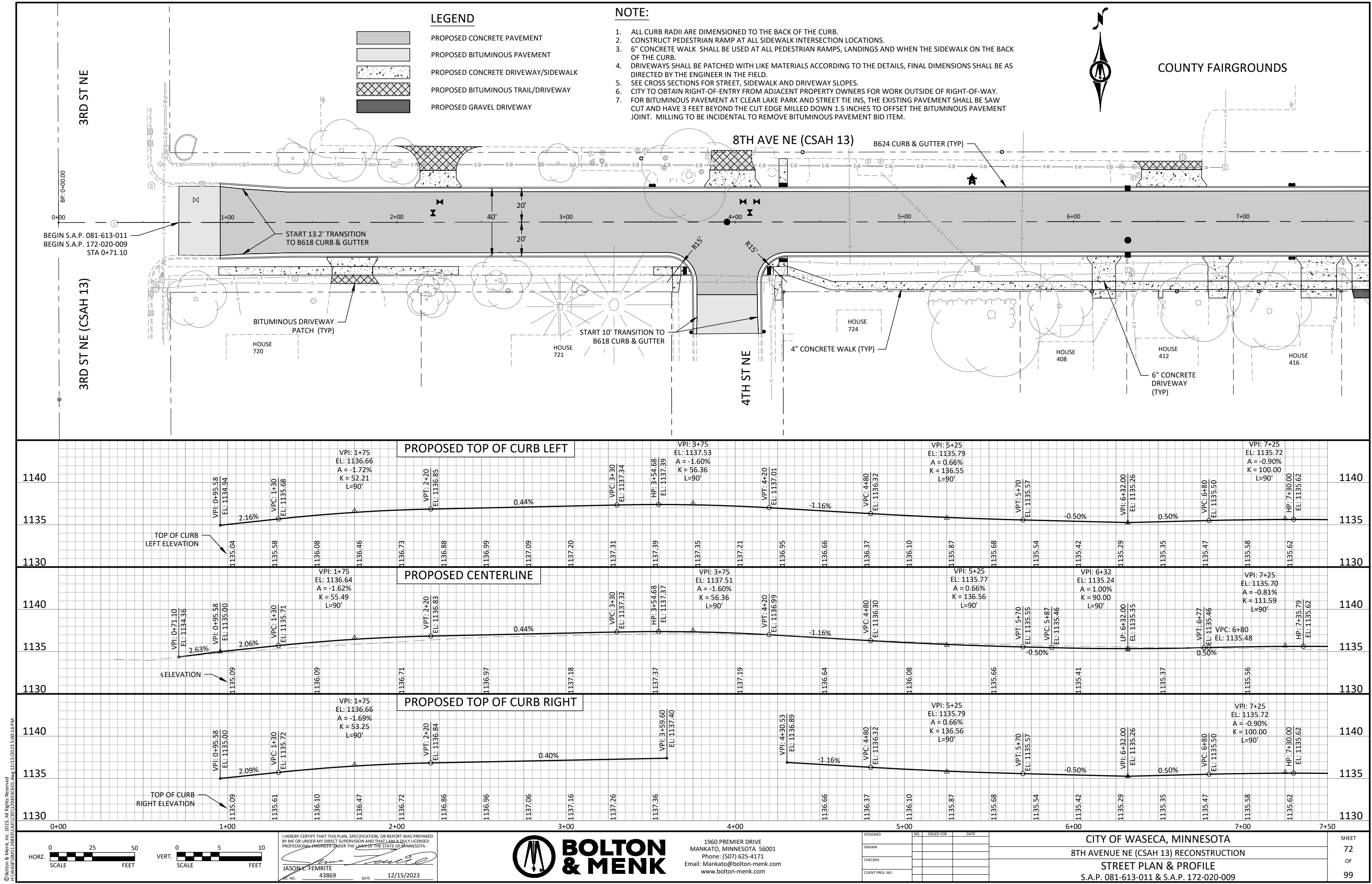
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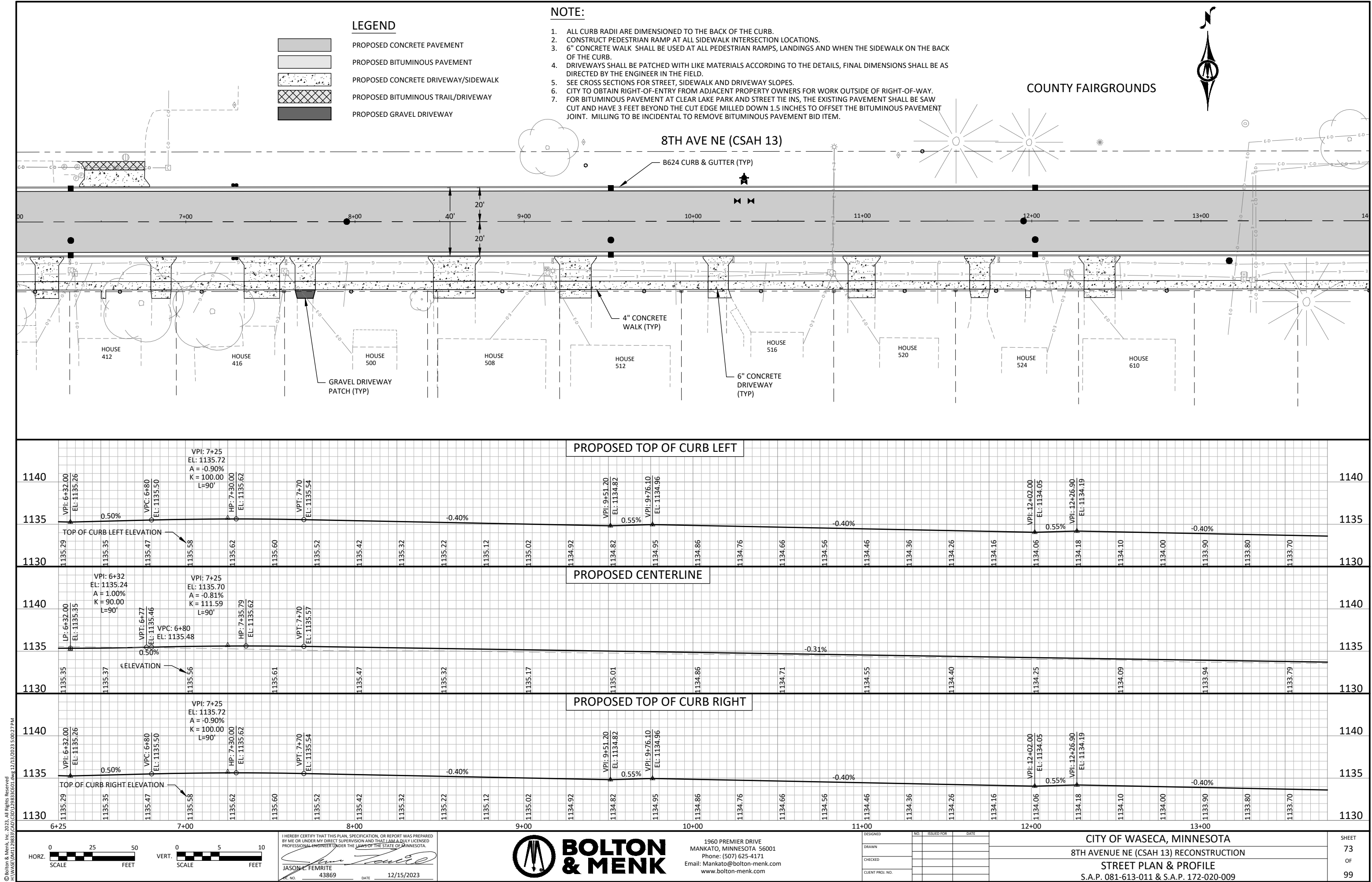
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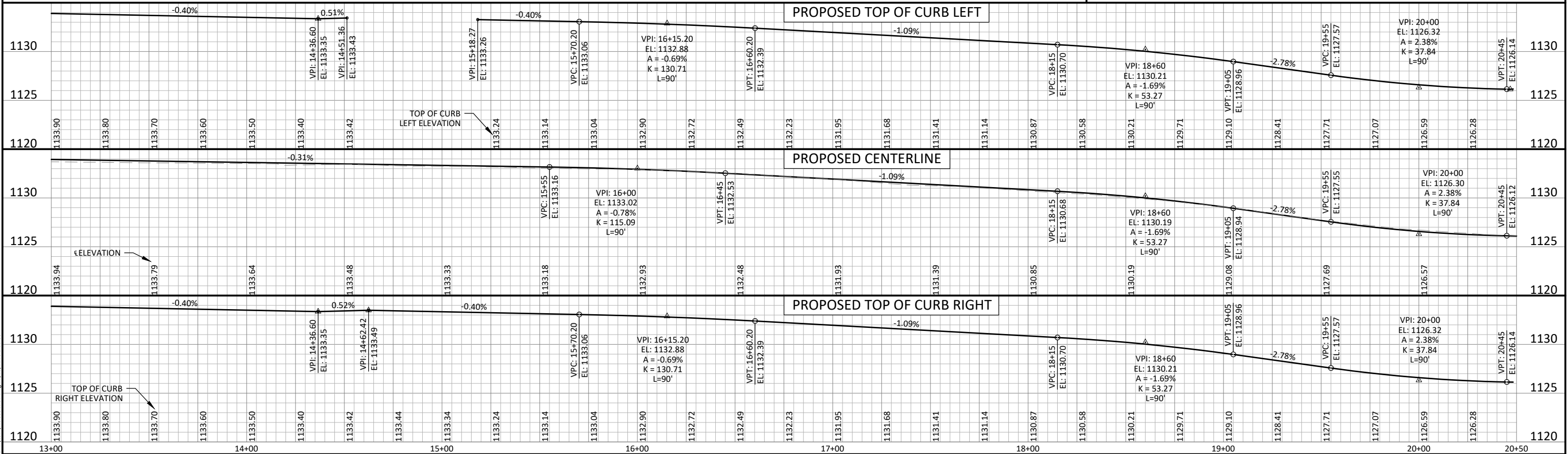
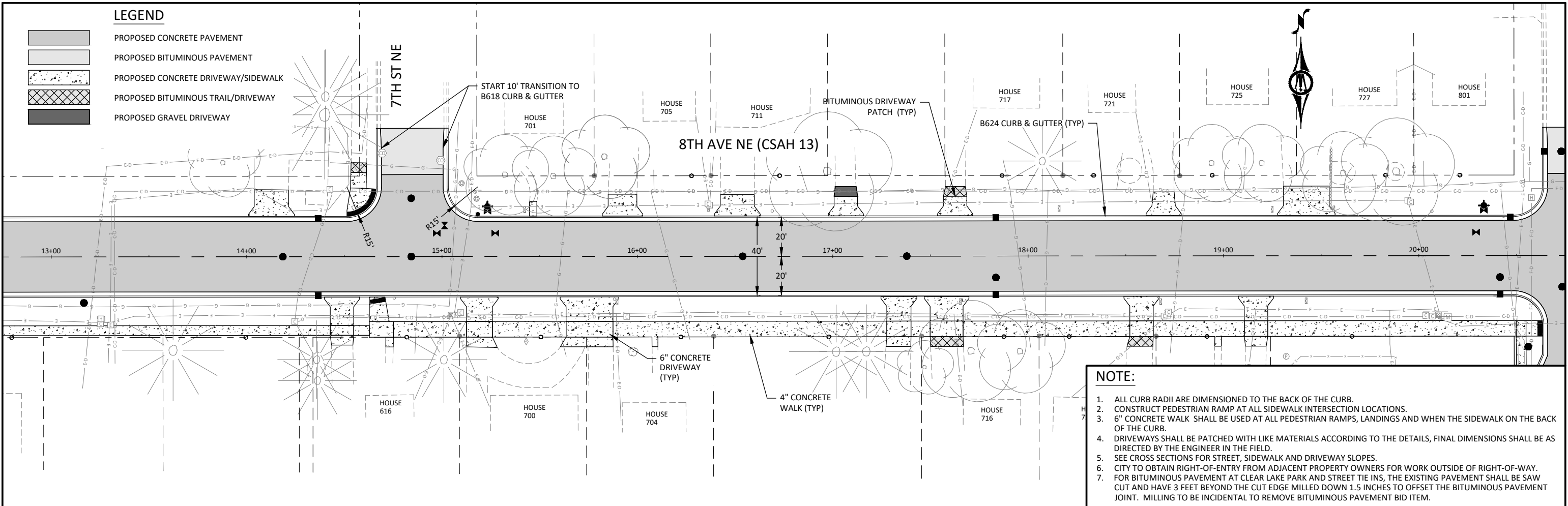




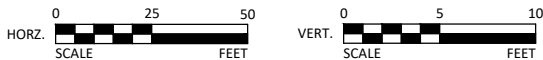


LEGEND

- PROPOSED CONCRETE PAVEMENT
- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CONCRETE DRIVEWAY/SIDEWALK
- PROPOSED BITUMINOUS TRAIL/DRIVEWAY
- PROPOSED GRAVEL DRIVEWAY



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STREET PLAN & PROFILE

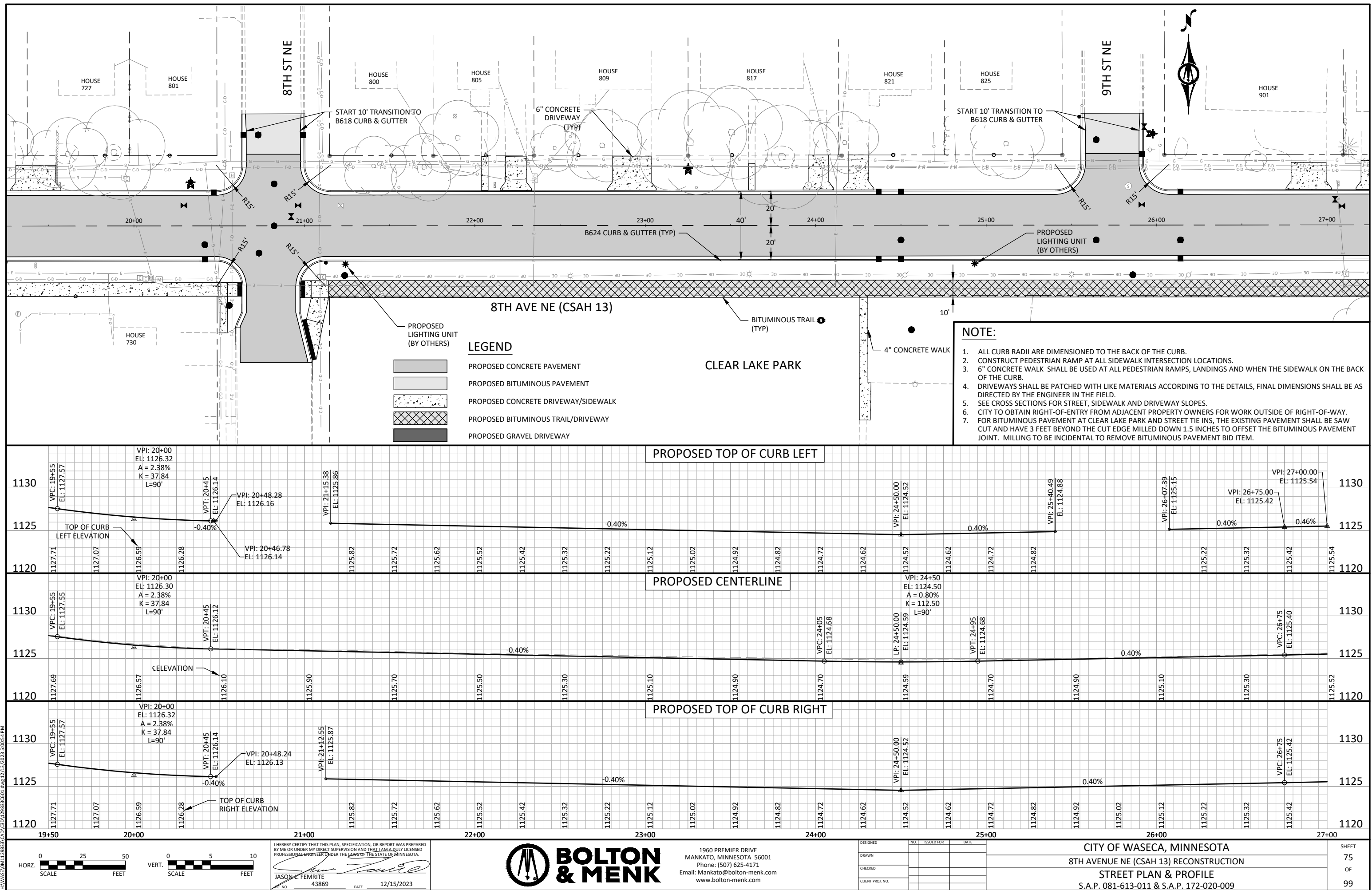
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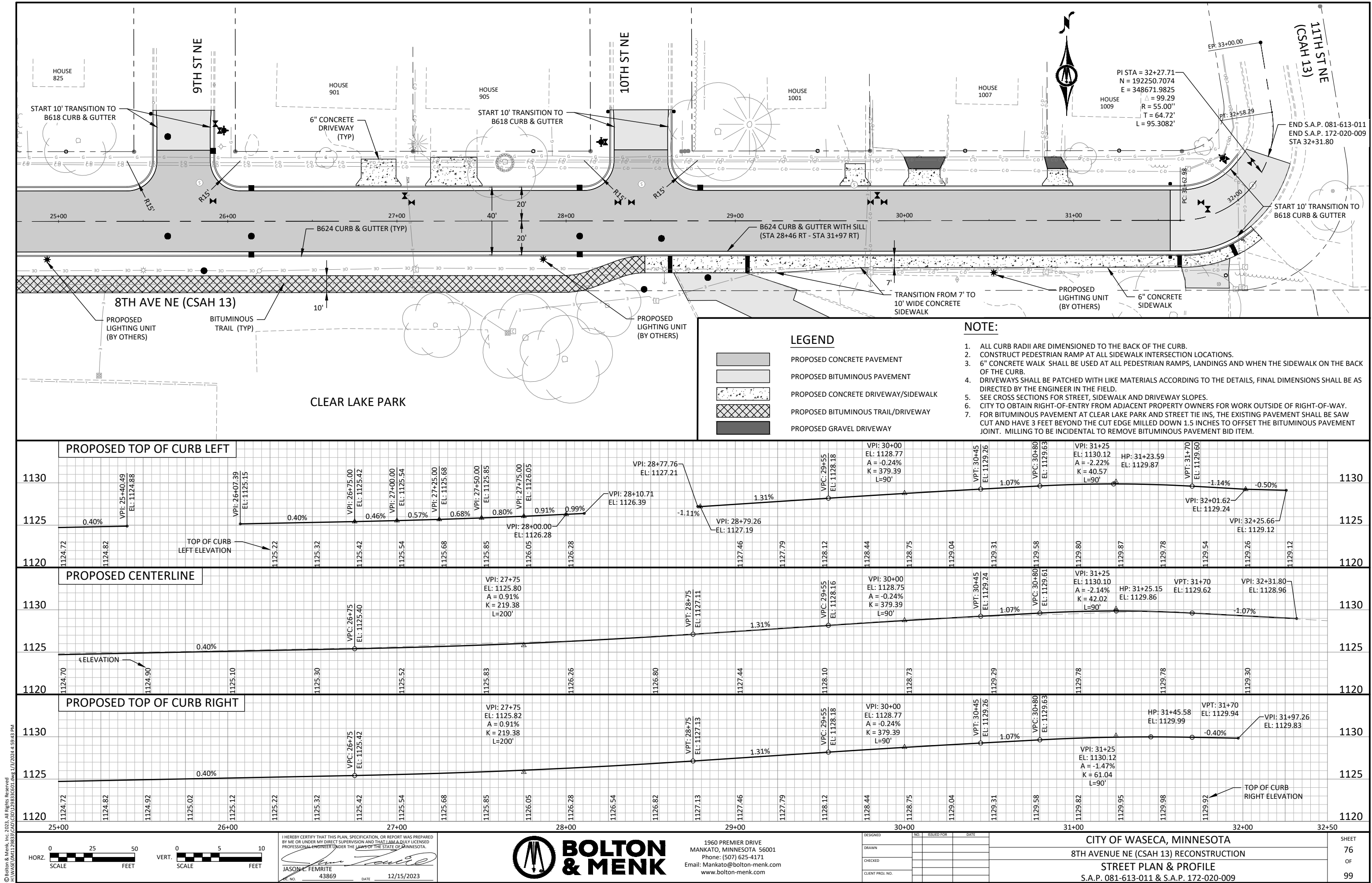
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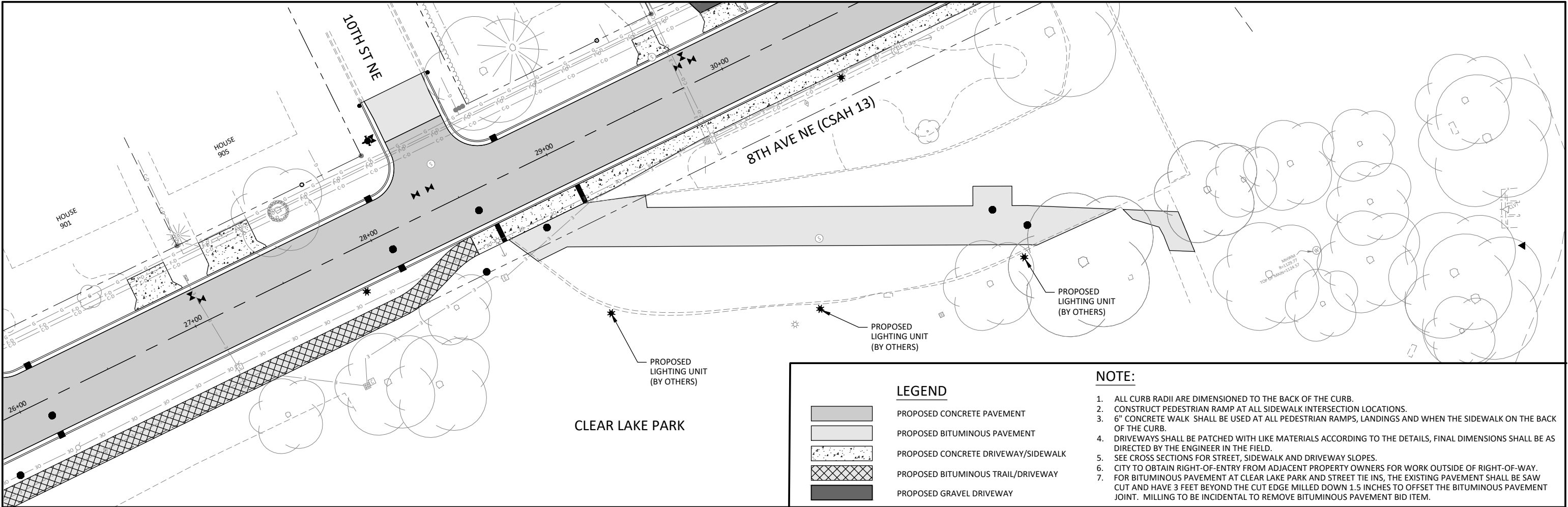
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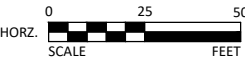
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- PROPOSED BITUMINOUS PAVEMENT
- PROPOSED CONCRETE DRIVEWAY/SIDEWALK
- PROPOSED BITUMINOUS TRAIL/DRIVEWAY
- PROPOSED GRAVEL DRIVEWAY

NOTE:

- ALL CURB RADII ARE DIMENSIONED TO THE BACK OF THE CURB.
- CONSTRUCT PEDESTRIAN RAMP AT ALL SIDEWALK INTERSECTION LOCATIONS.
- 6" CONCRETE WALK SHALL BE USED AT ALL PEDESTRIAN RAMPS, LANDINGS AND WHEN THE SIDEWALK ON THE BACK OF THE CURB.
- DRIVEWAYS SHALL BE PATCHED WITH LIKE MATERIALS ACCORDING TO THE DETAILS, FINAL DIMENSIONS SHALL BE AS DIRECTED BY THE ENGINEER IN THE FIELD.
- SEE CROSS SECTIONS FOR STREET, SIDEWALK AND DRIVEWAY SLOPES.
- CITY TO OBTAIN RIGHT-OF-ENTRY FROM ADJACENT PROPERTY OWNERS FOR WORK OUTSIDE OF RIGHT-OF-WAY.
- FOR BITUMINOUS PAVEMENT AT CLEAR LAKE PARK AND STREET TIE INS, THE EXISTING PAVEMENT SHALL BE SAW CUT AND HAVE 3 FEET BEYOND THE CUT EDGE MILLED DOWN 1.5 INCHES TO OFFSET THE BITUMINOUS PAVEMENT JOINT. MILLING TO BE INCIDENTAL TO REMOVE BITUMINOUS PAVEMENT BID ITEM.

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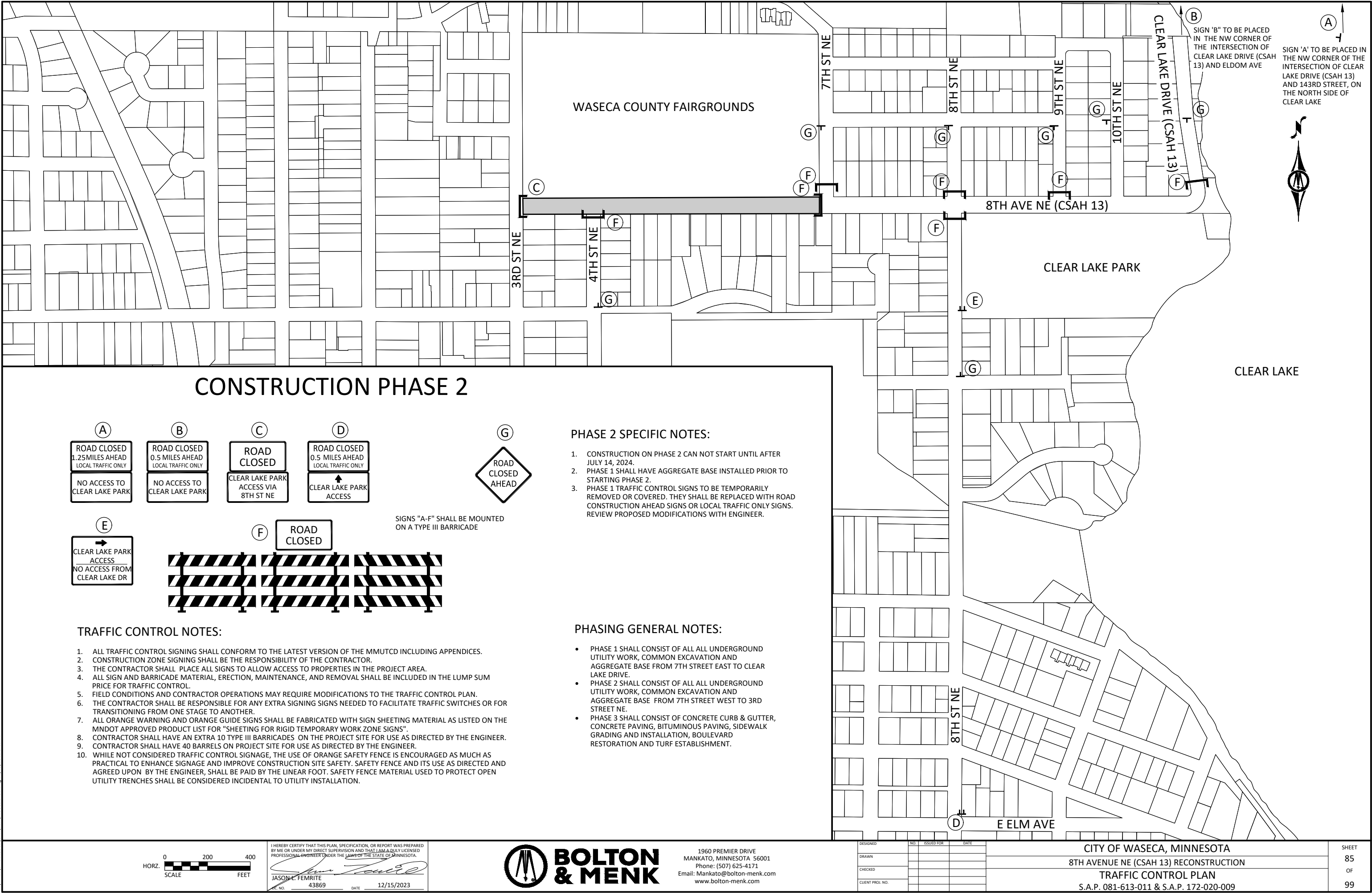


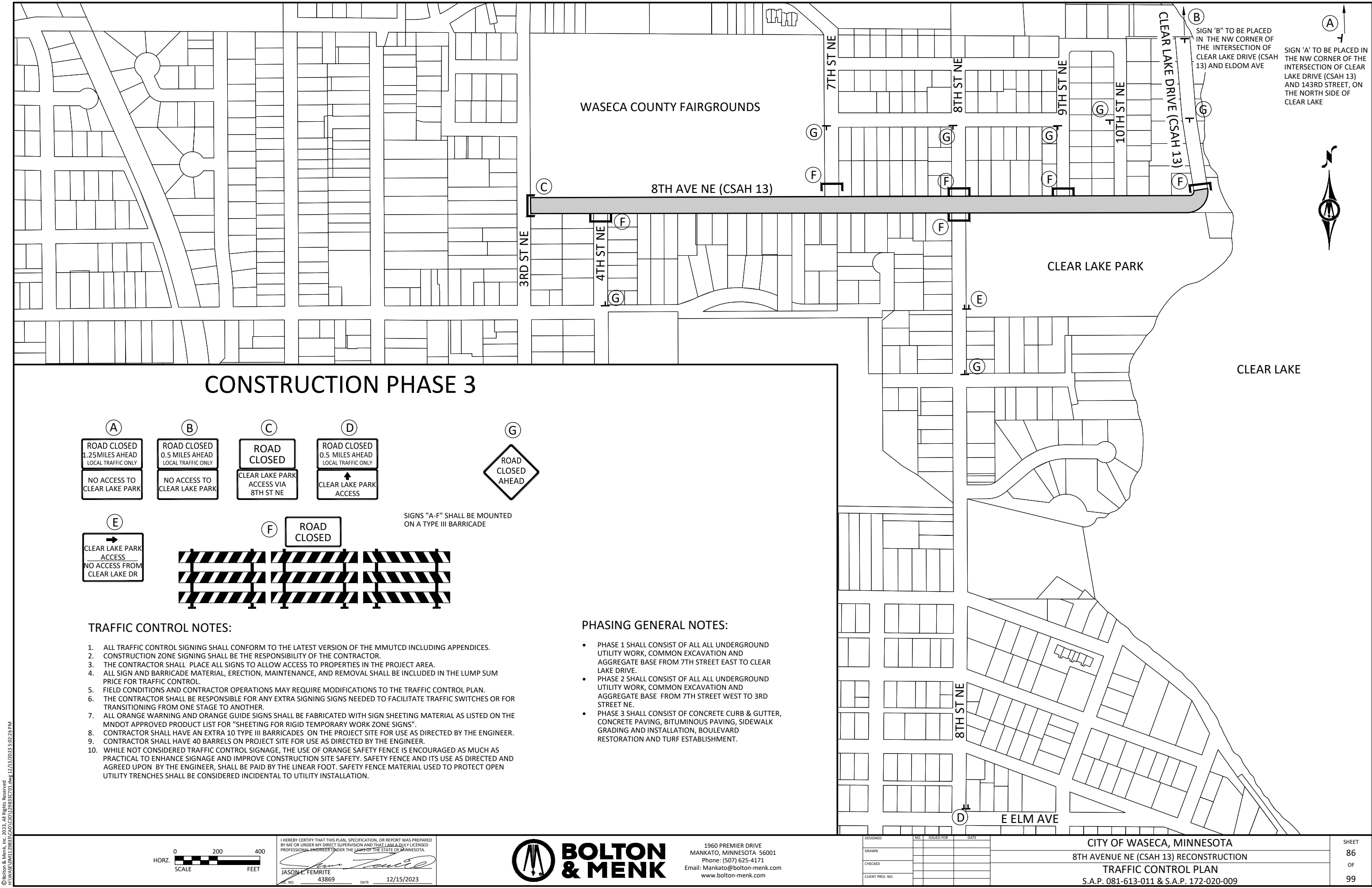
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STREET PLAN & PROFILE
S.A.P. 081-613-011 & S.A.P. 172-020-009

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77
OF
99





SIGN 'A' TO BE PLACED IN THE NW CORNER OF THE INTERSECTION OF CLEAR LAKE DRIVE (CSAH 13) AND 143RD STREET, ON THE NORTH SIDE OF CLEAR LAKE

SIGN 'B' TO BE PLACED IN THE NW CORNER OF THE INTERSECTION OF CLEAR LAKE DRIVE (CSAH 13) AND ELDOM AVE

CONSTRUCTION PHASE 3

A

ROAD CLOSED
1.25 MILES AHEAD
LOCAL TRAFFIC ONLY

NO ACCESS TO
CLEAR LAKE PARK

B

ROAD CLOSED
0.5 MILES AHEAD
LOCAL TRAFFIC ONLY

NO ACCESS TO
CLEAR LAKE PARK

C

ROAD
CLOSED

CLEAR LAKE PARK
ACCESS VIA
8TH ST NE

D

ROAD CLOSED
0.5 MILES AHEAD
LOCAL TRAFFIC ONLY

CLEAR LAKE PARK
ACCESS

G

ROAD
CLOSED
AHEAD

E

CLEAR LAKE PARK
ACCESS
NO ACCESS FROM
CLEAR LAKE DR

F

ROAD
CLOSED

SIGNS "A-F" SHALL BE MOUNTED ON A TYPE III BARRICADE

TRAFFIC CONTROL NOTES:

- ALL TRAFFIC CONTROL SIGNING SHALL CONFORM TO THE LATEST VERSION OF THE MMUTCD INCLUDING APPENDICES.
- CONSTRUCTION ZONE SIGNING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL PLACE ALL SIGNS TO ALLOW ACCESS TO PROPERTIES IN THE PROJECT AREA.
- ALL SIGN AND BARRICADE MATERIAL, ERECTION, MAINTENANCE, AND REMOVAL SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR TRAFFIC CONTROL.
- FIELD CONDITIONS AND CONTRACTOR OPERATIONS MAY REQUIRE MODIFICATIONS TO THE TRAFFIC CONTROL PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXTRA SIGNING SIGNS NEEDED TO FACILITATE TRAFFIC SWITCHES OR FOR TRANSITIONING FROM ONE STAGE TO ANOTHER.
- ALL ORANGE WARNING AND ORANGE GUIDE SIGNS SHALL BE FABRICATED WITH SIGN SHEETING MATERIAL AS LISTED ON THE MNDOT APPROVED PRODUCT LIST FOR "SHEETING FOR RIGID TEMPORARY WORK ZONE SIGNS".
- CONTRACTOR SHALL HAVE AN EXTRA 10 TYPE III BARRICADES ON THE PROJECT SITE FOR USE AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL HAVE 40 BARRELS ON PROJECT SITE FOR USE AS DIRECTED BY THE ENGINEER.
- WHILE NOT CONSIDERED TRAFFIC CONTROL SIGNAGE, THE USE OF ORANGE SAFETY FENCE IS ENCOURAGED AS MUCH AS PRACTICAL TO ENHANCE SIGNAGE AND IMPROVE CONSTRUCTION SITE SAFETY. SAFETY FENCE AND ITS USE AS DIRECTED AND AGREED UPON BY THE ENGINEER, SHALL BE PAID BY THE LINEAR FOOT. SAFETY FENCE MATERIAL USED TO PROTECT OPEN UTILITY TRENCHES SHALL BE CONSIDERED INCIDENTAL TO UTILITY INSTALLATION.

PHASING GENERAL NOTES:

- PHASE 1 SHALL CONSIST OF ALL ALL UNDERGROUND UTILITY WORK, COMMON EXCAVATION AND AGGREGATE BASE FROM 7TH STREET EAST TO CLEAR LAKE DRIVE.
- PHASE 2 SHALL CONSIST OF ALL ALL UNDERGROUND UTILITY WORK, COMMON EXCAVATION AND AGGREGATE BASE FROM 7TH STREET WEST TO 3RD STREET NE.
- PHASE 3 SHALL CONSIST OF CONCRETE CURB & GUTTER, CONCRETE PAVING, BITUMINOUS PAVING, SIDEWALK GRADING AND INSTALLATION, BOULEVARD RESTORATION AND TURF ESTABLISHMENT.

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I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Jason L. Femrite
JASON L. FEMRITE
P.E. NO. 43869 DATE 12/15/2023



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CITY OF WASECA, MINNESOTA

8TH AVENUE NE (CSAH 13) RECONSTRUCTION

TRAFFIC CONTROL PLAN

S.A.P. 081-613-011 & S.A.P. 172-020-009

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