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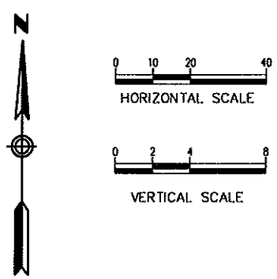
ELECTRONIC FILE

CONVENTIONAL SIGNS AND ABBREVIATIONS

CORPORATE LIMITS	
SECTION LINE	
RIGHT OF WAY LINE (STATE)	
PROPERTY LINE (STREET)	
ADDITION LINE	
SURVEY LINE	.1 .2
CENTER LINE	
WIRE FENCE	
STONE WALL OR FENCE	
HEDGE	
GUARD RAIL	
CREEK OR RIVER	
DRY RUN	
RAILROAD	
RAILROAD RIGHT OF WAY LINE	
CURB & GUTTER INP.	
SIDEWALK INP.	
SANITARY SEWER INP.	
STORM SEWER INP.	
WATERMAIN, GATEVALVE & BOX INP.	
ELECTRIC UNDERGROUND INP.	E
TELEPHONE UNDERGROUND INP.	T
STEAM MAIN INP.	S
GAS MAIN INP.	
CURB INP.	
HYDRANT INP.	
TELEPHONE, POWER POLES	
LIGHT POLES	
TRAFFIC SIGNAL	
FIRE ALARM BOX	
RAILROAD CROSSING SIGN	RXR
RAILROAD CROSSING BELL	
TREE	
STUMP	
BUILDING	I-S-F
IRON PIPE	
STONE MONUMENT	
MANHOLE INP.	
BRICK INP.	
BRIDGE INP.	
CULVERT INP.	
CATCH BASIN INP.	
CURB & GUTTER CONST.	
SIDEWALK CONST.	
SANITARY, STORM SEWER CONST.	
WATERMAIN CONST.	
MANHOLE CONST.	
CATCH BASIN CONST.	
HYDRANT CONST.	
CROSS	
TEE	
TAPPING MACHINE SLEEVE & VALVE	
BEND, ELBOW	
INCREASER, DECREASER	
CONCRETE	
SAND	
CRUSHED ROCK	R
BITUMINOUS	
CLEAR & GRUB TREE	
SW, C&G, CONC BASE, DRWY-REMOVE(GRD & ALIGN)	
SW, C&G, CONC BASE, DRWY-REMOVE(CONDEMED SW)	
SOIL BORING LOCATION	NO.2

ACRE	A.
ADJUST	ADJ.
AGGREGATE	AGG.
APPROACH	APP.
BENCH MARK	B.M.
BITUMINOUS	BIT.
BRIDGE	BR.
BUILDING	BLDG.
CAST IRON PIPE	C.I.P.
CATCH BASIN	C.B.
CENTER LINE	℄
CENTER TO CENTER	C TO C
CLAY SEWER PIPE	C.S.P.
CONCRETE	CONC.
CONSTRUCT	CONST.
CORNER	COR.
CORRUGATED METAL PIPE	C.M.P.
CORRUGATED METAL PIPE ARCH	C.M.P.-A
CRUSHED ROCK	CR. RK.
CURB & GUTTER	C & G
DEFLECTION LEFT	D L
DEFLECTION RIGHT	D R
DEGREE OF CURVE	D
DELTA OR INTERSECTION ANGLE	Δ
DRIVE	DR.
DRIVEWAY	DRWY.
DROP INLET	D.I.
DUCTILE IRON PIPE	D.I.P.
EAST	E.
ELEVATION	EL.
EMBANKMENT	EMB.
ENTRANCE	ENT.
EQUATION	EQ.
ESTIMATE	EST.
EXCAVATION	EXC.
EXPANSION	EXP.
FLOW LINE	F.L.
FOOT	FT.
FOUNDATION	FD'N.
FRAME	FR.
FURNISH AND INSTALL	F. & I.
GALLON	GAL.
GATEVALVE	GV
GRATE	GR.
HIGH WATER	H.W.
HIGHWAY	HWY.
HORIZONTAL	HORIZ.
HYDRANT	HYD.
INLET	INL.
INPLACE	INPL.
INSTALL	INST.
INVERT	INV.
IRON PIPE	I. P.
JUNCTION	JCT.
LEFT	LT.
LENGTH OF CURVE	L.
LINEAL	LIN.
LOW WATER	L.W.
MANHOLE	M.H.
MINIMUM	MIN.
MISCELLANEOUS	MISC.
MONUMENT	MON.
NORTH	N.
NORTH EAST	N.E.
NORTH WEST	N.W.
NUMBER	NO.
OUTLET	OUTL.
PERFORATED	PERF.
POINT OF CURVATURE	P.C.
POINT OF INTERSECTION	P.I.
POINT OF TANGENCY	P.T.
POINT ON TANGENT	P.O.T.
RADIUS, ROCK, RANGE	R.
RAILROAD	R.R.
REINFORCED	REINF.
REINFORCED CONCRETE PIPE	R.C.P.
RETURN	RET.
RIGHT	RT.
SANITARY	SAN.
SEWER	SEW.
SIDEWALK, SOUTH WEST	S.W.
SOUTH	S.
SOUTH EAST	S.E.
SPECIFICATION, SPECIAL	SPEC.
STANDARD	STD.
STATION	STA.
STORM, STATE, STUCCO	ST.
STREET, STONE, STEEL	ST.
SUBDRAIN	SD,SUBD
SURFACE	SURF.
TANGENT	TAN.
TURNING POINT, TELEPHONE POLE	T.P.
VARIABLE	VAR.
VEHICULAR MEASURE	V.M.
VERTICAL	VERT.
VERTICAL CURVE	V.C.
VETRIFIED	VIT.
WEST, WATER	W.

NOTE: SECTION NUMBERS READ FROM SOUTH



MINNESOTA DEPARTMENT OF TRANSPORTATION

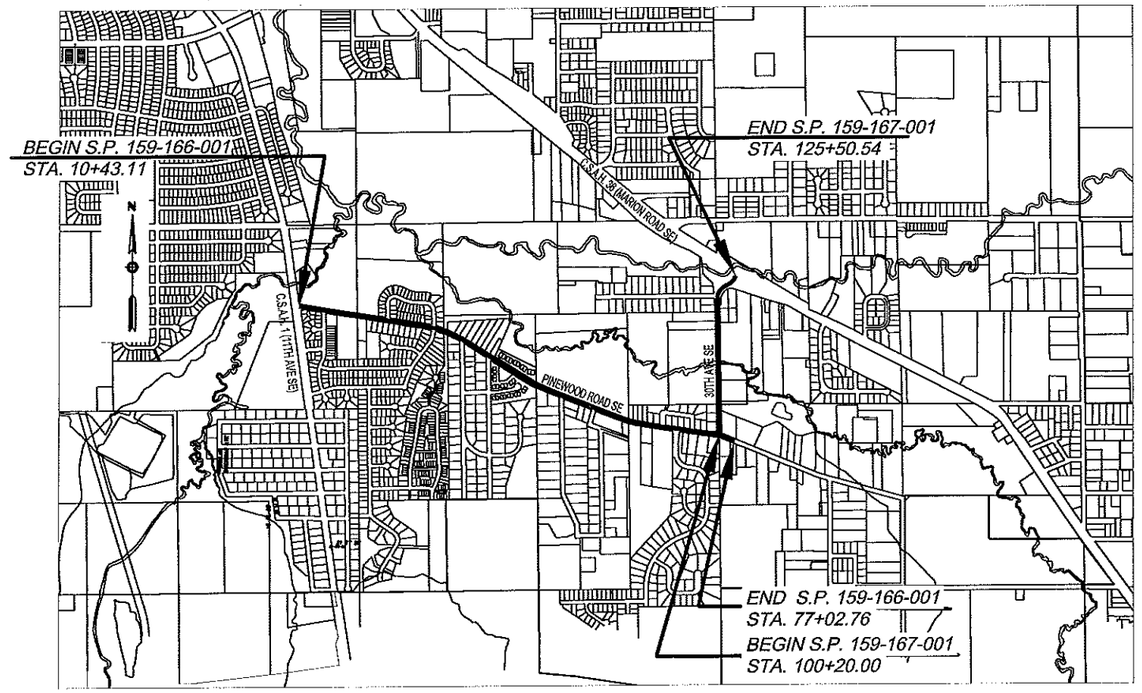
City of Rochester, Minnesota

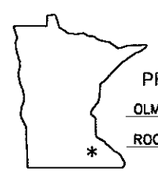
Department Of Public Works

CONSTRUCTION PLAN FOR GRADING,BASE,BITUMINOUS SURFACING,CONCRETE CURB & GUTTER,CONCRETE SIDEWALK,BIKE PATH AND STORM SEWER LOCATED ON PINEWOOD ROAD FROM COUNTY RD #1 TO 30TH AVE S.E. AND 30TH AVE S.E. FROM PINEWOOD RD S.E. TO COUNTY ROAD #36

PINEWOOD ROAD S.E.	S.P.159-166-001			
GROSS LENGTH	6659.65	FEET	1.261	MILES
BRIDGE LENGTH	0	FEET	0	MILES
EXCEPTION LENGTH	0	FEET	0	MILES
NET LENGTH	6659.60	FEET	1.261	MILES

30TH AVE S.E.	S.P. 159-167-001			
GROSS LENGTH	2530.54	FEET	0.479	MILES
BRIDGE LENGTH	0	FEET	0	MILES
EXCEPTION LENGTH	0	FEET	0	MILES
NET LENGTH	2530.54	FEET	0.479	MILES





PROJECT LOCATION

OLMSTED COUNTY

ROCHESTER DISTRICT

LEGAL DESCRIPTION

From County State Aid Highway No. 1 to County State Aid Highway No. 36 in the City of Rochester, Olmsted County, Minnesota.

Section(s), Township(s), Range(s):
Sec.13,T106N,R14W and Sec. 17&18,T106N,R13W

DESIGN DESIGNATION		PINEWOOD ROAD SE - URBAN (S.P. 159-166-001) STA. 10+43.11 TO STA. 77+02.76	30TH AVE SE - RURAL (S.P. 159-167-001) STA. 100+20.00 TO STA. 125+50.54
ADT (Current Year)	2012	4,800	2,360
ADT (Future Year	2032	7,680	3,780
HCADT (Future Year)	2032	5.9%	5.9%
DESIGN LOADING		10 - TON	10 - TON
R - VALUE		30	30
SIGMA N18 (20)		547,000	269,000
FUNCTIONAL CLASSIFICATION		LOCAL	LOCAL
NO. AND WIDTH OF TRAFFIC LANES		2 @ 11 FT	2 @ 12 FT
SHOULDER WIDTH		6 FT	6 FT
DESIGN SPEED		30MPH	30MPH
BASED ON SIGHT DISTANCE		STOPPING	STOPPING
HEIGHT OF EYE		3.5 FT	3.5 FT
HEIGHT OF OBJECT		2.0 FT	2.0 FT
STOP CONDITION AT:		11TH AVE SE	PINEWOOD RD SE & MARION RD SE

DESIGN SPEED NOT ACHIEVED AT:
30TH AVE S.E. - STA. 119+52 TO STA. 125+42 MPH 20 MPH

MN PROJ. NO. STPX 5511 (257)

GOVERNING SPECIFICATIONS

State of Minnesota:
The 2005 edition of the Minnesota Department of Transportation "Standard Specifications for Construction" shall govern except as modified by special provision.

UTILITY QUALITY LEVEL

The subsurface utility information in this plan is utility quality level D. This quality level was determined according to the guidelines of CI/ASCE 38-2, entitled "Standard Guidelines for the Collection and Depiction of Existing Subsurface Utility Data."

All traffic control devices shall conform to the most recent edition of the Minnesota Manual on Uniform Traffic Control Devices, including "Field Manual for Temporary Traffic Control Zone Layouts."

This project has been granted a variance from Minnesota rule 8820.9936 to allow two 20mph horizontal curves in lieu of the required 30mph horizontal curves. The variance was signed by Richard Kjonaas on 12/29/2010.

INDEX TO PLANS

Sheet Title	Sht. No.
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DETAILS	7
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EROSION CONTROL	31-41
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This plan contains 173 Total sheets

City of Rochester, Minnesota
Department Of Public Works

201 4th Street S.E.
Room 108 - City Hall
Rochester, MN 55904
Phone: (507) 328-2400
Fax: (507) 328-2401

Ronald Wallace 7/27/11
Ronald Wallace, Design Technician — Date

Russell Kelm
Russell Kelm, 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: 7-27-11 — Registration Number 24667

Douglas Nelson 7/27/11
Approved: Douglas Nelson, Manager of Engineering — Date

Richard Froese 7/27/11
Approved: Richard Froese, Director of Public Works — Date

Jason Kind 7/28/11
District State Aid Engineer: Reviewed for Compliance with State-Aid Rules/Policy — Date

Lynnette Boshell 8/11/11
State Aid Engineer: Approved for State Aid & Federal Aid Funding — Date

S.P. No. 159-167-001
S.P. No. 159-166-001
City Project No M7-18 J 7257

Sheet 1 of 173 Sheets

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STATEMENT OF ESTIMATED QUANTITIES

LINE	NOTES	TABLE	SHEET NO	SPEC. REF. NUMBER	ITEM DESCRIPTION	UNIT	PARTICIPATING SP 159-166-001	PARTICIPATING SP 159-167-001	NON-PARTICIPATING	STORM SEWER SP 159-166-001	STORM SEWER SP 159-167-001	TOTAL ESTIMATED QUANTITY
				1 STREET (350)								
1				2021.501/00010	MOBILIZATION	LS	0.64	0.13	0.02	0.19	0.02	1.00
2				2041.610/00010	TRAINEES	HOUR	320.00	65.00	10.00	95.00	10.00	500.00
3		E	10	2101.501/00010	CLEARING	ACRE	0.26					0.26
4		E	10	2101.502/00010	CLEARING	TREE	9.00	4.00				13.00
5		E	10	2101.506/00010	GRUBBING	ACRE	0.26					0.26
6		E	10	2101.507/00010	GRUBBING	TREE	9.00	4.00				13.00
7		D	10	2104.501/00022	REMOVE CURB AND GUTTER	L F	729.00					729.00
8		D	10	2104.503/00024	REMOVE CONCRETE DRIVEWAY PAVEMENT	S F	328.00					328.00
9		B	10	2104.505/00119	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	S Y	624.00	289.00				913.00
10		B	10	2104.505/00120	REMOVE BITUMINOUS PAVEMENT (P)	S Y	26,145.00	3,013.00				29,158.00
11		G	11	2104.511/00011	SAWING CONCRETE PAVEMENT (FULL DEPTH)	L F	143.00					143.00
12		G,H	11	2104.513/00011	SAWING BIT PAVEMENT (FULL DEPTH)	L F	765.00	4,034.00				4,799.00
13		C	10	2104.521/00052	SALVAGE WOVEN WIRE FENCE	L F	156.00					156.00
14		C	10	2104.521/00055	SALVAGE WOODEN FENCE	L F	27.00					27.00
15		U	19	2104.523/00543	SALVAGE SIGN TYPE C	EACH	2.00		115.00			117.00
16		A	2	2105.501/00010	COMMON EXCAVATION (P)	C Y	11,557.00	1,933.00				13,490.00
17		A	2	2105.525/00010	TOPSOIL BORROW (LV) (P)	C Y	1,622.00	539.00				2,161.00
18		G,H	11	2211.503/00050	AGGREGATE BASE (CV) CLASS 5 (P)	C Y	10,248.00	1,808.00				12,056.00
19		H	11	2221.503/00050	AGGREGATE SHOULDERING (CV) CLASS 5	C Y	9.00	157.00				166.00
20	1	G	11	2360.501/12200	TYPE SP 9.5 WEARING COURSE MIX (2,B)	TON	42.00	17.00				59.00
21	1	H	11	2360.501/13300	TYPE SP 9.5 WEARING COURSE MIX (3,C)	TON	5,939.00	1,386.00				7,325.00
22	1	G	11	2360.502/22200	TYPE SP 12.5 NON WEAR COURSE MIX (2,B)	TON	56.00	39.00				95.00
23	1	H	11	2360.502/23200	TYPE SP 12.5 NON WEAR COURSE MIX (3,B)	TON	3,636.00	353.00				3,989.00
24		Q	15	2504.602/00032	ADJUST GATE VALVE & BOX	EACH	41.00	13.00				54.00
25	2			2504.602/03005	ADJUST CURB STOP	EACH	5.00					5.00
26		I	11	2531.501/02120	CONCRETE CURB & GUTTER DESIGN B424	L F	30.00	30.00				60.00
27		I	11	2531.501/02320	CONCRETE CURB & GUTTER DESIGN B624	L F	12,482.00	1,114.00				13,596.00
28		I	11	2531.501/02321	CONCRETE CURB & GUTTER DESIGN B624 (MOD)	L F	11.00					11.00
29		G	11	2531.507/00060	6" CONCRETE DRIVEWAY PAVEMENT	S Y	590.00					590.00
30		G	11	2531.507/00070	7" CONCRETE DRIVEWAY PAVEMENT	S Y	66.00	18.00				84.00
31		F	10	2540.602/00158	RELOCATE MAIL BOX	EACH			56.00			56.00
32		C	10	2557.603/00053	INSTALL WOVEN WIRE FENCE	L F	156.00					156.00
33		C	10	2557.603/00055	INSTALL WOODEN FENCE	L F	27.00					27.00
34				2563.601/00010	TRAFFIC CONTROL	LS	0.64	0.13	0.02	0.19	0.02	1.00
35		W	19	2564.531/00130	SIGN PANELS TYPE C	S F	396.00	133.00				529.00
36		X	19	2564.531/00140	SIGN PANELS TYPE D	S F	90.00	33.00				123.00
37		U	19	2564.602/00320	INSTALL SIGN TYPE SPECIAL	EACH	2.00					2.00
38		L	13	2573.502/00010	SILT FENCE, TYPE HEAVY DUTY	L F	200.00	60.00				260.00
39		L	13	2573.502/00040	SILT FENCE, TYPE MACHINE SLICED	L F	7,809.00	4,421.00				12,230.00
40		L	13	2573.512/00012	TEMPORARY DITCH CHECK TYPE 2	L F		5.00				5.00
41		L	13	2573.520/00010	SEDIMENT REMOVAL BACKHOE	HOUR	27.00	14.00				41.00
42		L	13	2573.530/00010	STORM DRAIN INLET PROTECTION	EACH	95.00	6.00				101.00
43				2573.550/00010	EROSION CONTROL SUPERVISOR	LS	0.64	0.13	0.02	0.19	0.02	1.00
44		L	13	2573.602/00020	TEMPORARY ROCK CONSTRUCTION ENTRANCE	EACH	2.00	1.00				3.00
45		M	13	2575.501/00010	SEEDING	ACRE	0.50	0.30				0.80
46		M	13	2575.502/00340	SEED MIXTURE 340	LB	40.00	25.00				65.00
47		M	13	2575.505/00020	SODDING TYPE EROSION	S Y	34.00	73.00				107.00
48		M	13	2575.505/00060	SODDING TYPE MINERAL	S Y	14,852.00	3,667.00				18,519.00
49		M	13	2575.525/00020	EROSION STABILIZATION MAT CLASS 2	S Y		261.00				261.00
50		M	13	2575.532/00030	FERTILIZER TYPE 3	LB	614.00	152.00				766.00
51		M	13	2575.533/00010	AGRICULTURAL LIME	TON	8.00	3.00				11.00
52		M	13	2575.560/00060	HYDRAULIC SOIL STABILIZER TYPE 6	LB	1,635.00	1,011.00				2,646.00
53		M	13	2575.571/00010	RAPID STABILIZATION METHOD 3	MGAL	2.00	1.00				3.00
54		V	19	2582.501/03001	PAVT MSSG (LT ARROW) EPOXY	EACH	1.00	1.00				2.00
55		V	19	2582.501/03002	PAVT MSSG (RT ARROW) EPOXY	EACH	5.00	2.00				7.00
56		V	19	2582.501/03116	PAVEMENT MESSAGE (BIKE SYMBOL) EPOXY-GROUND IN	EACH	25.00	8.00				33.00
57		V	19	2582.502/51104	4" SOLID LINE WHITE-EPOXY (GROUND IN)	L F	12,095.00	4,853.00				16,948.00
58		V	19	2582.502/51112	12" SOLID LINE WHITE-EPOXY (GROUND IN)	L F	114.00	211.00				325.00
59		V	19	2582.502/51204	4" BROKEN LINE WHITE-EPOXY (GROUND IN)	L F	176.00	72.00				248.00
60		V	19	2582.502/52204	4" BROKEN LINE YELLOW-EPOXY (GROUND IN)	L F	1,450.00	463.00				1,913.00
61		V	19	2582.502/52404	4" DBLE SOLID LINE YELLOW-EPOXY (GR IN)	L F	813.00	649.00				1,462.00
62		V	19	2582.503/00140	CROSSWALK MARKING-EPOXY	S F	180.00					180.00
				2 PED FACILITIES (550)								
63		B	10	2104.503/00015	REMOVE BITUMINOUS WALK	S F	679.00					679.00
64		D	10	2104.503/00020	REMOVE CONCRETE SIDEWALK	S F	699.00					699.00
65		J	12	2521.501/00040	4" CONCRETE WALK	S F	32,604.00	2,852.00				35,456.00
66		J	12	2521.501/00050	5" CONCRETE WALK	S F	1,851.00	1,681.00				3,532.00
67		J	12	2521.501/00051	5" CONCRETE WALK-EXPOSED AGGREGATE	S F	22.00					22.00
68		J	12	2521.501/00060	6" CONCRETE WALK	S F	5,257.00	1,111.00				6,368.00
69		J	12	2521.501/00070	7" CONCRETE WALK	S F	387.00	158.00				545.00
70	1	K	12	2521.603/00030	BITUMINOUS BIKE PATH	L F	877.00					877.00
71		J	12	2531.618/00010	TRUNCATED DOMES	S F	322.00	132.00				454.00

ESTIMATED QUNATITIES NOTES:
(P) PLANNED QUANTITY
(1) BITUMINOUS MATERIAL FOR TACKCOAT INCIDENTAL
(2) INCLUDES AS A TOKEN AMOUNT NOT SUBJECT TO THE PROVISIONS OF 1903

EARTHWORK SUMMARY (A)

	PINEWOOD ROAD	FAIRVIEW CT SE	PINEWOOD ROAD-TOTAL	30TH AVE SE-TOTAL
CROSS SECTION VOLUME (BM)	15,767	148	15,915	2,484
REMOVE BITUMINOUS PAVEMENT	4,358		4,358	551
COMMON EXCAVATION (BM)	11,409	148	11,557	1,933
MATERIAL AVAILABLE (CV) (4)	10,372	135	10,506	1,757
EMBANKMENT (CV)	6,396	146	6,542	1,429
TOPSOIL REQUIRED (CV)	1,622	(6)	1,622	539
TOPSOIL BORROW (LV) (4)	1,622	(6)	1,622	539
EXCESS MATERIAL AVAILABLE (CV)	5,598	-11	5,586	867
EXCESS MATERIAL AVAILABLE (LV) (5)	7,277	-15	7,262	1,127

NOTES:
(4) 1.1 SHRINKAGE FACTOR FROM BANK MEASURE (BM) TO COMPACTED VOLUME (CV) AND LOOSE VOLUME (LV) TO COMPACTEI
(5) 1.3 SHRINKAGE FACTOR FROM COMPACTED VOLUME (CV) TO LOOSE VOLUME (LV)
(6) TOPSOIL INCLUDED IN PINEWOOD ROAD

Revision comment:
Revised: —
Creation Date: —

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: 07/27/11 Reg. No. 24967

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2400
FAX: (507) 328-2401

Title: ESTIMATED QUANTITIES
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18 J7257
Sheet 2 of 173 Sheets

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STATEMENT OF ESTIMATED QUANTITIES

LINE	NOTES	TABLE	SHEET NO	SPEC. REF. NUMBER	ITEM DESCRIPTION	UNIT	PARTICIPATING SP 159-166-001	PARTICIPATING SP 159-167-001	NON-PARTICIPATING	STORM SEWER SP 159-166-001	STORM SEWER SP 159-167-001	TOTAL ESTIMATED QUANTITY
				3 STORM SEWER (450)								
72		O	14	2104.501/00016	REMOVE SEWER PIPE (STORM)	L F	881.00	437.00				1,318.00
73		O	14	2104.501/00090	REMOVE CONCRETE BOX CULVERT	L F	31.00					31.00
74		N	14	2104.509/00013	REMOVE PIPE APRON	EACH	2.00					2.00
75		O	14	2104.509/00027	REMOVE CONCRETE HEADWALL	EACH	3.00					3.00
76		N	14	2104.509/00100	REMOVE MANHOLE OR CATCH BASIN	EACH	9.00					9.00
77		N	14	2104.523/00095	SALVAGE PIPE APRON	EACH	3.00					3.00
78				2105.511/00010	COMMON CHANNEL EXCAVATION (P)	C Y					386.00	386.00
79		R	16,17	2501.515/90120	12" RC PIPE APRON	EACH				11.00		11.00
80		R	16,17	2501.515/90150	15" RC PIPE APRON	EACH				4.00	1.00	5.00
81		R	16,17	2501.515/90180	18" RC PIPE APRON	EACH				6.00	6.00	12.00
82		R	16,17	2501.515/90240	24" RC PIPE APRON	EACH				1.00	6.00	7.00
83		R	16,17	2501.515/90300	30" RC PIPE APRON	EACH				2.00		2.00
84		R	16,17	2501.515/90420	42" RC PIPE APRON	EACH				1.00		1.00
85		R	16,17	2501.515/90480	48" RC PIPE APRON	EACH				2.00		2.00
86		R	16,17	2501.515/90600	60" RC PIPE APRON	EACH				1.00		1.00
87		R	16,17	2501.521/02490	49" SPAN CS PIPE-ARCH CULVERT	L F	43.00					43.00
88		R	16,17	2501.573/00017	INSTALL PIPE APRON	EACH	3.00					3.00
89		S	18	2503.511/90125	12" RC PIPE SEWER CLASS V	L F				1,317.00	20.00	1,337.00
90		S	18	2503.511/90153	15" RC PIPE SEWER CLASS III	L F				1,277.00	71.00	1,348.00
91		S	18	2503.511/90183	18" RC PIPE SEWER CLASS III	L F				625.00	81.00	706.00
92		S	18	2503.511/90243	24" RC PIPE SEWER CLASS III	L F				183.00	384.00	567.00
93		S	18	2503.511/90303	30" RC PIPE SEWER CLASS III	L F				602.00		602.00
94		S	18	2503.511/90363	36" RC PIPE SEWER CLASS III	L F				519.00		519.00
95		S	18	2503.511/90423	42" RC PIPE SEWER CLASS III	L F				317.00		317.00
96		S	18	2503.511/90483	48" RC PIPE SEWER CLASS III	L F				717.00		717.00
97		S	18	2503.511/90603	60" RC PIPE SEWER CLASS III	L F				59.00		59.00
98		S	18	2503.521/90583	58" SPAN RC PIPE-ARCH SEWER CLASS IIIA	L F				49.00		49.00
99		R	16,17	2506.502/00301	CONST DRAINAGE STRUCTURE DESIGN SPEC 1	EACH				54.00	4.00	58.00
100		R	16,17	2506.502/00304	CONST DRAINAGE STRUCTURE DESIGN SPEC 4	EACH				20.00	2.00	22.00
101		R	16,17	2506.502/00305	CONST DRAINAGE STRUCTURE DESIGN SPEC 5	EACH				8.00		8.00
102		R	16,17	2506.502/00307	CONST DRAINAGE STRUCTURE DESIGN SPEC 7	EACH				12.00		12.00
103		R	16,17	2506.502/00308	CONST DRAINAGE STRUCTURE DESIGN SPEC 8	EACH				3.00		3.00
104		R	16,17	2506.502/00309	CONST DRAINAGE STRUCTURE DESIGN SPEC 9	EACH				2.00		2.00
105		R	16,17	2506.522/00011	ADJUST FRAME & RING CASTING	EACH				4.00		4.00
106		R	16,17	2506.602/00002	RECONSTRUCT DRAINAGE STRUCTURE	EACH				1.00		1.00
107		R	16,17	2506.602/00008	ADJUST DRAINAGE STRUCTURE	EACH				3.00		3.00
108		R	16,17	2506.602/00019	CONNECT INTO EXISTING DRAINAGE STRUCTURE	EACH				5.00		5.00
109		R	16,17	2506.602/00020	CONNECT INTO EXISTING STORM SEWER	EACH				3.00		3.00
110		L	13	2511.501/00013	RANDOM RIPRAP CLASS III	C Y				18.00	9.00	27.00
111		L	13	2511.501/00014	RANDOM RIPRAP CLASS IV	C Y				98.00		98.00
112		L	13	2511.515/00014	GEOTEXTILE FILTER TYPE IV	S Y				165.00	18.00	183.00
				4 WATERMAIN (150)								
113		Q	15	2504.602/00022	RELOCATE HYDRANT & VALVE	EACH			5.00			5.00
114		Q	15	2504.602/00026	ADJUST HYDRANT AND GATE VALVE	EACH			7.00			7.00
115		T	18	2504.603/00408	LOWER 8" WATERMAIN	L F			26.00			26.00
116		T	18	2504.603/00412	LOWER 12" WATERMAIN	L F			92.00			92.00
117				2504.604/00100	4" INSULATION	S Y			48.00			48.00
				5 SANITARY SEWER (250)								
118		P	15	2506.522/00011	ADJUST FRAME & RING CASTING	EACH	19.00	7.00				26.00
119		P	15	2506.602/00001	RECONSTRUCT MANHOLES	EACH	6.00					6.00
120		P	15	2506.602/09010	FURNISH & INSTALL MANHOLE WATERPROOFING INTERIOR	EACH			32.00			32.00

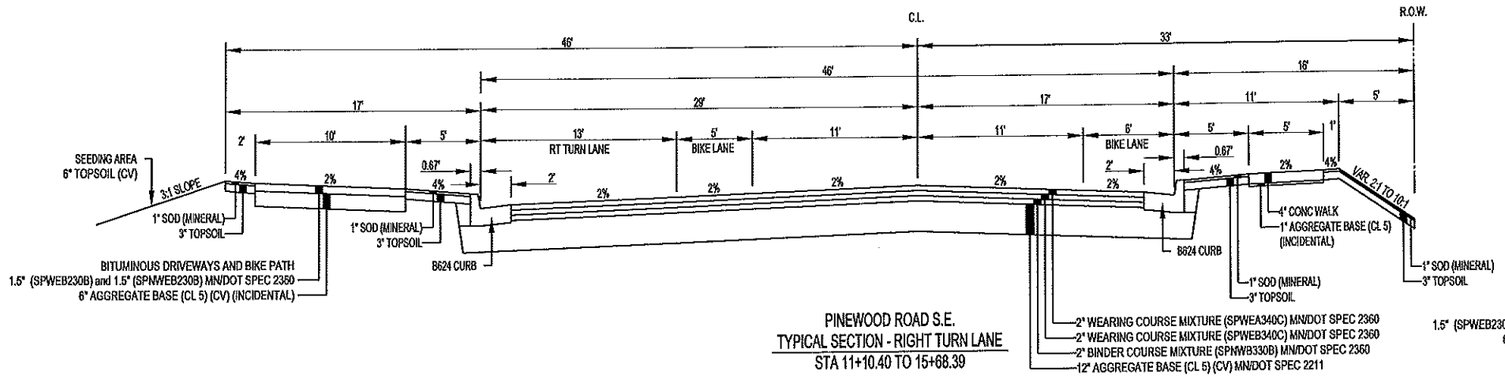
Revision comment: ADDENDUM #1
Revised: 08/23/11

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: 07/27/11 Reg. No. 24697

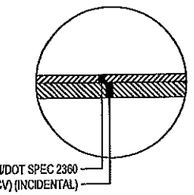
City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
FAX: (507) 328-2401

Title: ESTIMATED QUANTITIES
Designer: RLW
Checker: RJK

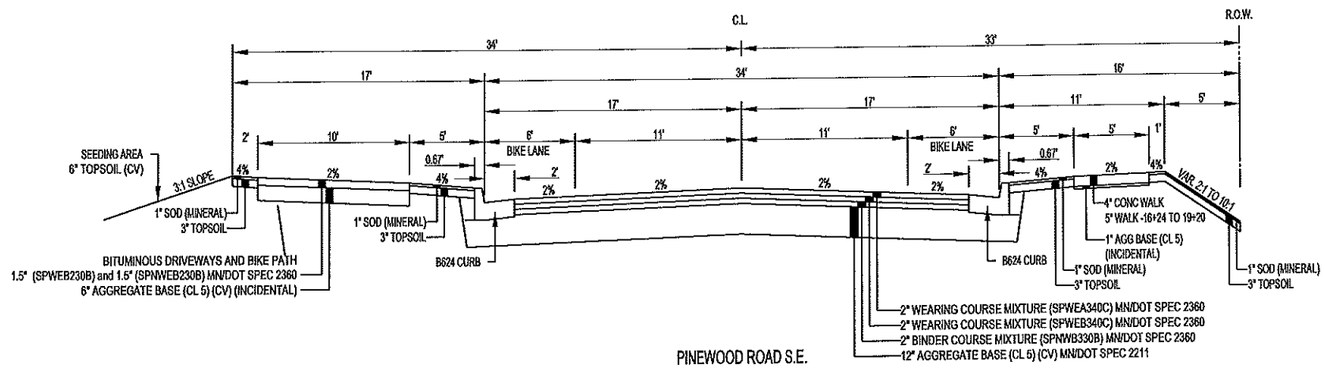
S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J 7257
Sheet 3 of 173 Sheets



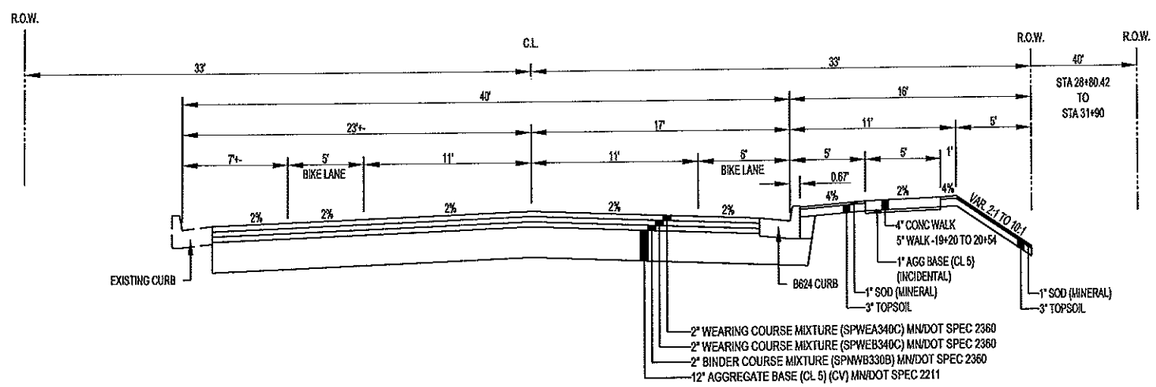
PINEWOOD ROAD S.E.
TYPICAL SECTION - RIGHT TURN LANE
STA 11+10.40 TO 15+68.39



TYPICAL SECTION - BITUMINOUS DRIVEWAYS



PINEWOOD ROAD S.E.
TYPICAL URBAN 2 LANE SECTION
BIKEWAY LEFT AND CONCRETE WALK RIGHT
STA 15+68.39 TO 19+20.0



PINEWOOD ROAD S.E.
TYPICAL SECTION - 2 LANE URBAN SECTION
STA 19+20.0 TO STA 31+90.0

Revision comment: —
Revised: —
Creation Date: —

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: 07/27/11 Reg. No. 24687

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2430
FAX: (507) 328-2401

Title: TYPICAL SECTIONS
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 4 of 173 Sheets

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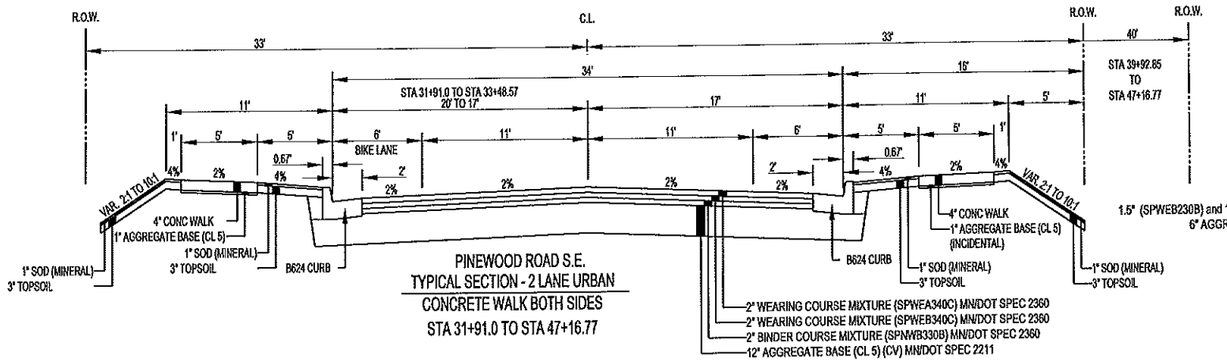
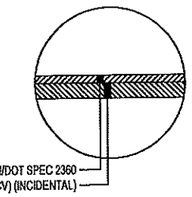
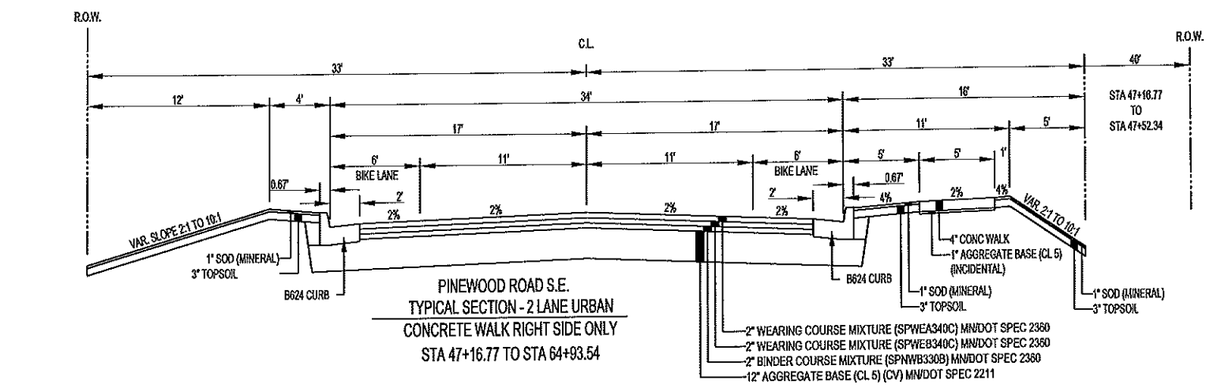


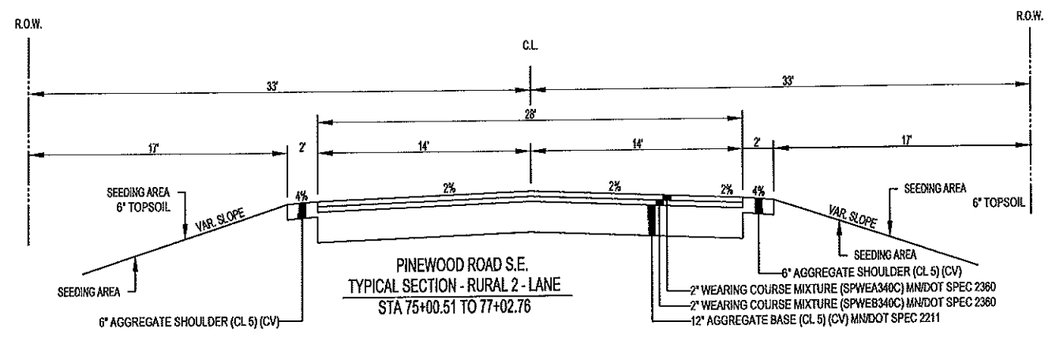
PINEWOOD ROAD S.E.
TYPICAL SECTION - 2 LANE URBAN
CONCRETE WALK BOTH SIDES
STA 31+91.0 TO STA 47+16.77



TYPICAL SECTION - BITUMINOUS DRIVEWAYS



PINEWOOD ROAD S.E.
TYPICAL SECTION - 2 LANE URBAN
CONCRETE WALK RIGHT SIDE ONLY
STA 47+16.77 TO STA 64+93.54



PINEWOOD ROAD S.E.
TYPICAL SECTION - RURAL 2 - LANE
STA 75+00.51 TO 77+02.76

Revision comment: —
Revision: —
Creation Date:

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.
Russell J. Kline Date: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
FAX: (507) 328-2401

Title: TYPICAL SECTIONS

Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 5 of 173 Sheets

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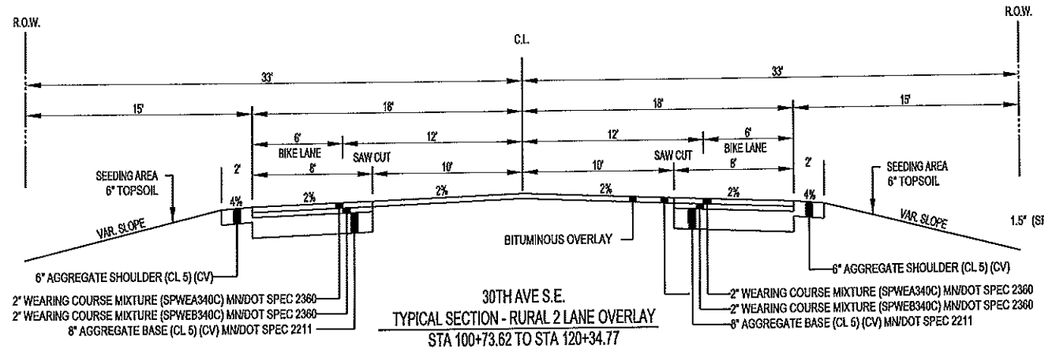
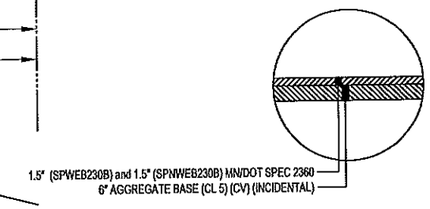
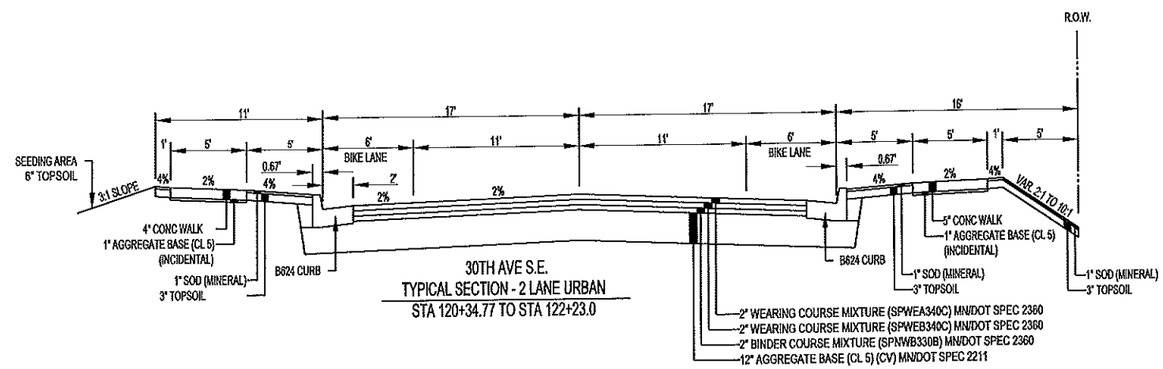


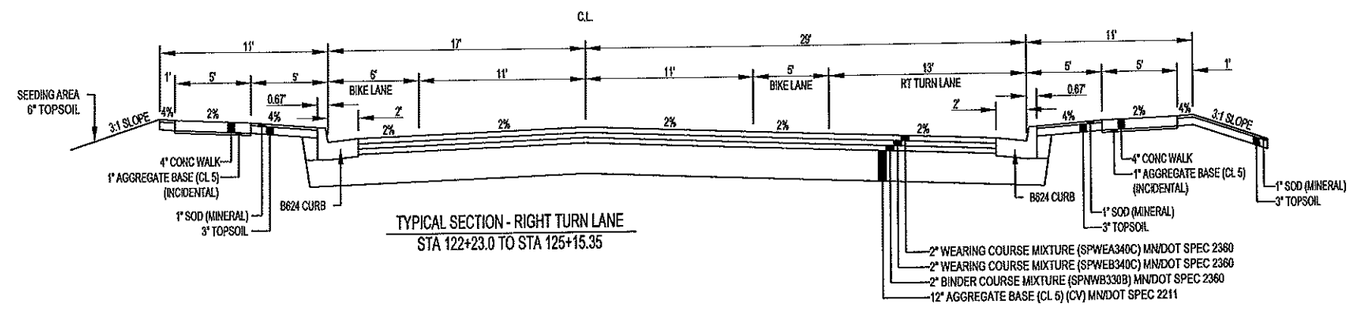
30TH AVE S.E.
TYPICAL SECTION - RURAL 2 LANE OVERLAY
STA 100+73.62 TO STA 120+34.77



TYPICAL SECTION - BITUMINOUS DRIVEWAYS



30TH AVE S.E.
TYPICAL SECTION - 2 LANE URBAN
STA 120+34.77 TO STA 122+23.0



TYPICAL SECTION - RIGHT TURN LANE
STA 122+23.0 TO STA 125+15.35

Revision comment
Revision: —
Creation Date: —

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.
Russell J. Klein Date: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
FAX: (507) 328-2401

Title: TYPICAL SECTIONS
Designer: RLW
Checker: RJK

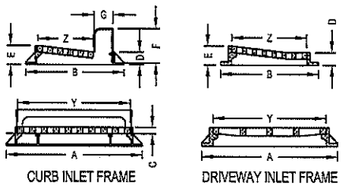
S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 6 of 173 Sheets

CASTINGS - STRUCTURE TYPE 1										
TYPE	DESCRIPTION	A	B	C	D	E	F	G	Y	Z
A	2' CURB INLET FRAME, GRATE & BOX	35 7/16 DIA.	35 7/16 DIA.	2	7	8	10 1/4	5 3/4	23 7/8	16
B	3' CURB INLET FRAME, GRATE & BOX	43	31	1 15/16	4	6	11 5/16	5 3/4	35 1/4	17 3/4
C	3' DRIVEWAY INLET FRAME & GRATE	43	31	1 7/8	4	6			35 3/4	22 3/4
V	3' CURB INLET FRAME, GRATE & BOX	43	31	1 15/16	4	6	11 5/16	5 3/4	35 1/4	17 3/4

CASTINGS - STRUCTURE TYPE 1			
TYPE	MIN. OPENING	GRATE SLOTS	REMARKS
A	1.1 SQ. FT.	DIAGONAL	FOR M.H. TYPE STRUCTURE (36" DIA. BASE)
B	1.56 SQ. FT.	DIAGONAL	
C	2.5 SQ. FT.	PARALLEL (BICYCLE SAFE)	USE WHERE DRIVEWAY PRECLUDES USE OF TYPE B IN B. CURB
V	1.88 SQ. FT.	PERPENDICULAR VANE	USE WHEN STREET GRADE EXCEEDS 2%

ALL DIMENSIONS ARE MINIMUM AND IN INCHES UNLESS OTHERWISE NOTED.

NOTES:
1. CASTINGS SHALL BE ACCORDING TO MN/DOT SPEC 3321.1-2 SUPPLIED BY FOUNDRIES THAT ARE APPROVED ON THE MN/DOT APPROVED/QUALIFIED PRODUCTS LIST
2. ALL CASTINGS SHALL COMPLY WITH AASHTO M-306
3. ALL CASTINGS SHALL COMPLY WITH U.S. CODE OF FEDERAL REGULATIONS 23CFR635.410, THE "BUY AMERICAN STEEL & IRON" REGULATION
4. ALL STORM SEWER CASTINGS MAY INCLUDE IMPRINT FISH STAMP AND "DUMP NO WASTE"



CURB INLET FRAME DRIVEWAY INLET FRAME

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
STANDARD CASTINGS ASSEMBLIES

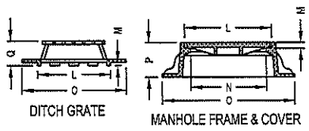
ASST. CITY ENGINEER | DIRECTOR | SHT OF SHTS | DATE REVISED | PLATE NO. | REV.

CASTINGS - OTHER STRUCTURES							
TYPE	DESCRIPTION	L	M	N	O	P	Q
1	9" FRAME & COVER-GASKETED	25	1 1/2	23	36	9	
2	7" FRAME & COVER-GASKETED	25 3/4	7/8	24	35 7/16	7	
2A	9" FRAME & COVER-GASKETED	25 3/4	7/8	24	35 7/16	9	
3	7" FRAME & COVER-NON ROCKING	32	1 1/2	30	45 1/2	7	
4	9" FRAME & GRATE-NON ROCKING	22	1 1/2	20	33	8	
6	DITCH GRATE-STOOL TYPE-TALL	23	1 7/16		33		6 11/16
7	DITCH GRATE-STOOL TYPE-SHORT	23	1 1/2		33		6 5/8
8	POND SKIMMER GRATE	1/2" STEEL PLATE					1/2

ALL DIMENSIONS ARE MINIMUM AND IN INCHES UNLESS OTHERWISE NOTED.

CASTINGS - OTHER STRUCTURES		
TYPE	MIN. OPENING	REMARKS
1		BOLTED LID, USED IN FLOOD PRONE AREAS & IN CONCRETE PAVING
2		USED IN BITUMINOUS PAVING W/ CI & CONCEALED PICK HOLES
2A		USED IN BITUMINOUS PAVING W/ CI & CONCEALED PICK HOLES
3		USED FOR P.R.V. MANHOLES
4	1.1 SQ. FT.	PAVEMENT DRAIN
6	2.5 SQ. FT.	HEAVY DUTY
7	1.73 SQ. FT.	LIGHT DUTY
8	7.51 SQ. FT.	HOT DIPPED GALVANIZED, NOT SUBJECT TO H20 LOADING

NOTES:
1. CASTINGS SHALL BE ACCORDING TO MN/DOT SPEC 3321.1-2 SUPPLIED BY FOUNDRIES THAT ARE APPROVED ON THE MN/DOT APPROVED/QUALIFIED PRODUCTS LIST
2. ALL CASTINGS SHALL COMPLY WITH AASHTO M-306
3. ALL CASTINGS SHALL COMPLY WITH U.S. CODE OF FEDERAL REGULATIONS 23CFR635.410, THE "BUY AMERICAN STEEL & IRON REGULATION
4. ALL STORM SEWER CASTINGS MAY INCLUDE IMPRINT FISH STAMP AND "DUMP NO WASTE"



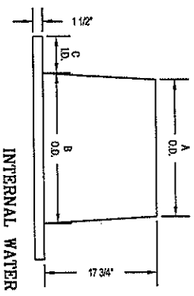
DITCH GRATE MANHOLE FRAME & COVER

DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
STANDARD CASTING ASSEMBLIES

ASST. CITY ENGINEER | DIRECTOR | SHT OF SHTS | DATE REVISED | PLATE NO. | REV.

NOTES

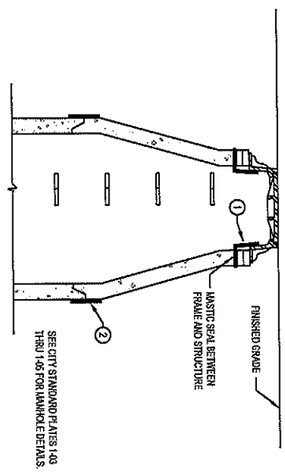
1. INTERNAL WATER BARRIER PER ASTM D1248
2. 12" EXTERNAL WATER BARRIER WRAP (ALL JOINTS) PER ASTM C877
3. TRIM TOP OF SEAL A MINIMUM OF 2" ABOVE TOP OF ADJUSTING RINGS
4. PLACE "MASTIC" ON TOP OF CONE SECTION AND BENEATH SEAL.
5. INSTALL MARKER WHEN MANHOLE IS PLACED OUTSIDE OF THE ROADWAY.



INTERNAL WATER BARRIER

SIZE CHART		
A	B	C
21 3/4	23 7/8	5 3/4
21 3/4	23 7/8	7 1/4
21 3/8	23 7/8	9 1/4

SIZE USED IS DEPENDENT ON MATERIAL THAT MANHOLE IS CONSTRUCTED OUT OF.



DEPARTMENT OF PUBLIC WORKS
CITY OF ROCHESTER, MINNESOTA
MANHOLE WATERPROOFING INTERIOR BARRIER

ASST. CITY ENGINEER | DIRECTOR | SHT OF SHTS | DATE REVISED | PLATE NO. | REV.

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18 J7257
Sheet 7 of 173 Sheets

Designer: RLW
Checker: RJK

Title: DETAILS

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
FAX: (507) 328-2401

Revised: —
Revision comment: —
Creation Date:

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.
Russell J. Klan Date: 07/27/11 Reg. No. 24667

P:\PROJECTS\J-PROJ\J7257\Design\Dwgs\7257C7.dwg, Layout1, 7/26/2011 3:51:10 PM, 1:2

CONTROL & TRAVERSE POINTS

NODE ID	LOCATION		DESCRIPTION	NORTHING	EASTING
PINEWOOD ROAD					
15	23+89.62	39.76 L	BLK COR	156914.84	626288.83
16	30+04.22	38.65 L	BLK COR	156811.84	626897.64
19	42+52.84	444.58 R	BLK COR	155812.39	627749.1
20	41+68.58	435.49 R	BLK COR	155884.79	627682.49
6	11+40.38	29.33 R	PLAT COR	157038.76	625048.15
7	13+13.47	32.34 R	PLAT COR	157011.47	625214.35
12	20+54.24	33.17 R	PLAT COR	156895.61	625946.15
13	22+23.62	40.24 L	PLAT COR	156941.45	626124.97
24	40+18.18	40.00 L	PLAT COR	156347.74	627807.02
418	13+13.47	32.34 R	PLAT COR	157011.47	625214.35
2	N/A	N/A	TRAV PT	158271.18	623916.55
3	N/A	N/A	TRAV PT	158172.51	624696.5
4	N/A	N/A	TRAV PT	157069.4	624879.31
5	12+62.66	28.34 R	TRAV PT	157023.7	625164.88
8	14+70.58	23.38 L	TRAV PT	157040.85	625378.45
9	13+95.45	32.18 R	TRAV PT	156998.27	625295.26
11	20+24.81	24.87 R	TRAV PT	156908.45	625918.4
14	26+30.99	31.34 L	TRAV PT	156868.53	626525.87
17	34+72.46	28.64 L	TRAV PT	156624.85	627335.97
18	39+86.82	51.94 R	TRAV PT	156286.01	627732.03
25	49+62.44	18.76 L	TRAV PT	155864.08	628611.36
26	52+42.17	27.24 L	TRAV PT	155768.59	628874.42
26	52+42.17	27.23 L	TRAV PT	155768.58	628874.42
27	61+98.30	19.99 L	TRAV PT	155424.27	629762.97
27	61+98.30	19.99 L	TRAV PT	155424.27	629762.97
30	67+15.07	34.27 R	TRAV PT	155284.57	630262.9
30	67+15.07	34.27 R	TRAV PT	155284.56	630262.9
31	71+40.25	19.15 L	TRAV PT	155278.61	630691.38
31	71+40.24	19.14 L	TRAV PT	155278.6	630691.37
32	75+10.69	22.31 R	TRAV PT	155180.34	631048.4
32	75+10.69	22.32 R	TRAV PT	155180.33	631048.4
33	74+12.14	490.32 L	TRAV PT	155707.48	631026.66
33	74+12.14	490.31 L	TRAV PT	155707.47	631026.66
35	73+82.56	1013.05 L	TRAV PT	156229.38	631068.96
35	73+82.55	1013.04 L	TRAV PT	156229.38	631068.95
39	72+73.35	1700.19 L	TRAV PT	156925.02	631055.94
42	72+03.18	2106.36 L	TRAV PT	157337	631042.68
43	71+64.88	2430.83 L	TRAV PT	157663.65	631049.68
30TH AVE SE					
33	105+24.45	17.50 L	TRAV PT	155707.48	631026.66
33	105+24.44	17.50 L	TRAV PT	155707.47	631026.66
35	110+45.68	32.39 R	TRAV PT	156229.38	631068.96
35	110+45.67	32.39 R	TRAV PT	156229.38	631068.95
39	117+41.44	29.50 R	TRAV PT	156925.02	631055.94
42	121+27.47	61.08 L	TRAV PT	157337	631042.68
43	122+22.14	339.54 L	TRAV PT	157663.65	631049.68

30TH AVE S.E. ALIGNMENT DATA

ITEM	CONTROL POINT	STATION	NORTHING	EASTING	DIRECTION	DISTANCE	DEFLECTION ANGLE	DELTA ANGLE	DEGREE OF CURVE - ARC	TANGENT	RADIUS	ARC LENGTH
L1	BOP	100+00.00	155183.3115	631049.1883	N 00°30'49" W	465.35						
L2	PI	104+65.35	155648.6430	631045.0170	N 00°50'03" W	1487.41	00°19'14"					
L3	PI	119+52.76	157135.8981	631023.3654	N 01°40'06" W	0.00	N/A					
	PC	119+52.76	157135.8981	631023.3654								
	RADIUS	N/A	157142.1598	631238.2742				105°29'22"	26°38'57"	282.69	215.00	395.84
C4	PI	122+35.45	157418.4635	631015.1323			105°29'22"					
L5	PT	123+48.61	157350.9353	631289.6336	S 76°10'46" E	20.12						
	PC	123+68.73	157346.1291	631309.1711								
	RADIUS	N/A	157477.2498	631341.4272				73°30'00"	42°25'55"	100.83	135.03	173.22
C6	PI	124+69.56	157322.0423	631407.0836			73°30'00"					
L7	PI	125+41.95	157409.0817	631457.9871	N/A	0.00	N/A					
L8	PI	125+41.95	157409.0817	631457.9871	N 31°09'18" E	61.47	N/A					
	EOP	126+03.42	157461.6885	631489.7904								

PINEWOOD ROAD S.E. ALIGNMENT DATA

ITEM	CONTROL POINT	STATION	NORTHING	EASTING	DIRECTION	DISTANCE	DEFLECTION ANGLE	DELTA ANGLE	DEGREE OF CURVE - ARC	TANGENT	RADIUS	ARC LENGTH
L1	BOP	10+00.00	157052.1104	624909.1108	N 82°07'22" E	96.08						
L2	PI	10+96.08	157065.2784	625004.2857	N 82°08'05" E	0.00	N/A					
	PC	10+96.08	157065.2784	625004.2857								
	RADIUS	N/A	156768.1007	625045.3395				17°14'33"	19°05'55"	45.48	300.00	90.28
C3	PI	11+41.57	157071.5028	625049.3424			17°14'33"					
L4	PT	11+88.36	157064.0919	625094.2191	S 80°37'22" E	437.73						
L5	PI	16+24.09	156992.7719	625528.0979	S 82°03'20" E	200.00	01°25'57"					
L6	PI	18+24.09	156965.1289	625724.1783	S 80°37'22" E	95.01	-01°25'57"					
L7	PI	19+19.10	156949.6491	625817.9164	S 80°56'33" E	963.64	00°19'11"					
	PC	28+82.74	156797.9489	626769.5440								
	RADIUS	N/A	155232.7485	626520.0333				22°38'48"	03°38'54"	317.38	1584.96	626.47
C8	PI	32+00.12	156747.9858	627082.9666			22°38'48"					
L9	PT	35+09.22	156561.1919	627352.9849	S 58°17'45" E	514.90						
L10	PI	40+24.11	156310.5969	627791.0441	S 57°57'42" E	589.15	-00°20'03"					
L11	PI	46+13.26	155998.0593	628290.4646	S 57°57'42" E	0.01	00°00'00"					
	PC	46+13.27	155998.0564	628290.4693								
	RADIUS	N/A	157283.1987	629094.7119				10°21'07"	03°46'45"	137.33	1516.05	273.91
C12	PI	47+50.60	155925.2045	628406.8833			10°21'07"					
L13	PT	48+67.18	155874.4574	628534.4934	S 68°18'49" E	647.73						
L14	PI	55+34.91	155635.1045	629136.3770	S 68°59'49" E	537.85	00°41'00"					
	PC	60+72.76	155442.3295	629638.4931								
	RADIUS	N/A	156369.4493	629994.4376				11°34'53"	05°46'10"	100.71	993.10	200.74
C15	PI	61+73.47	155406.2325	629732.5141			11°34'53"					
L16	PT	62+73.50	155369.7459	629831.8678	S 80°34'42" E	400.10						
L17	PI	66+73.60	155324.2494	630228.5729	S 82°02'30" E	737.33	01°27'46"					
	PC	74+10.93	155222.1637	630956.8016								
	RADIUS	N/A	154479.3870	630852.9617				14°08'41"	07°38'22"	93.05	750.00	185.15
C18	PI	75+03.98	155209.2807	631048.9555			14°08'41"					
L19	PT	75+96.09	155174.2683	631135.1672	S 67°53'49" E	239.94						
	EOP	78+36.02	155083.9860	631357.4717								

FAIRVIEW COURT S.E. STORM SEWER ALIGNMENT DATA

ITEM	CONTROL POINT	STATION	NORTHING	EASTING	DIRECTION	DISTANCE	DEFLECTION ANGLE	DELTA ANGLE	DEGREE OF CURVE - ARC	TANGENT	RADIUS	ARC LENGTH
L1	BOP	0+00.00	155277.8010	630231.5872	N 07°57'30" E	27.81						
L2	PI	0+27.81	155305.3400	630235.4372	N 02°17'32" E	60.37	05°39'58"					
L3	PI	0+88.18	155365.6622	630237.8519	N 04°32'39" E	153.49	-02°15'06"					
L4	PI	2+41.67	155518.6741	630250.0128	N 18°16'04" E	131.10	-13°43'25"					
L5	PI	3+72.77	155643.1643	630291.1061	N 00°48'54" W	346.60	19°04'58"					
	EOP	7+19.37	155989.7303	630286.1752								

DRAINAGE DITCH NORTH OF 30TH AVE. AND 22ND AVE S.E. ALIGNMENT DATA

ITEM	CONTROL POINT	STATION	NORTHING	EASTING	DIRECTION	DISTANCE	DEFLECTION ANGLE	DELTA ANGLE	DEGREE OF CURVE - ARC	TANGENT	RADIUS	ARC LENGTH
L1	BOP	0+00.00	157196.4456	631003.6764	N 04°36'07" W	322.10						
	EOP	3+22.10	157517.5083	630977.8332								

DRAINAGE DITCH NORTHWEST OF STATION 122+25 ON 30TH AVE S.E. ALIGNMENT DATA

ITEM	CONTROL POINT	STATION	NORTHING	EASTING	DIRECTION	DISTANCE	DEFLECTION ANGLE	DELTA ANGLE	DEGREE OF CURVE - ARC	TANGENT	RADIUS	ARC LENGTH
L1	BOP	5+00.00	157342.5870	631160.4669	N 11°48'17" W	130.41						
	EOP	6+30.41	157470.2394	631133.7880								

Revision comment: —
Revised: —
Creation Date: —

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: 07/27/11 Reg. No. 24657

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Title: TABULATIONS
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18 J7257
Sheet 8 of 173 Sheets

EXISTING UTILITIES - ROCHESTER PUBLIC UTILITIES

STATION LOCATION		INPLACE UTILITY	LEAVE AS IS	RELOCATE	
PINEWOOD ROAD					
10+62.66	19.99 R	POWER POLE	X		
10+68.45	56.90 L	POWER POLE	X		
12+73.03	28.87 L	POWER POLE		X	
13+13.80	35.42 R	ELEC BOX	X		
14+77.39	29.36 L	POWER POLE	X		
16+91.66	26.68 L	POWER POLE		X	
18+92.25	25.28 L	POWER POLE		X	
20+44.54	24.84 L	POWER POLE	X		
20+53.42	57.55 R	POWER POLE	X		
22+31.75	23.58 L	POWER POLE	X		
23+24.75	37.37 L	ELEC BOX	X		
23+26.80	37.33 L	ELEC BOX	X		
23+26.83	43.11 L	ELEC BOX	X		
23+24.91	43.18 L	ELEC BOX	X		
24+62.87	28.55 L	POWER POLE	X		
24+89.00	43.44 L	ELEC BOX	X		
25+78.74	42.81 L	ELEC BOX	X		
26+83.02	42.62 L	ELEC BOX	X		
26+98.37	27.70 L	POWER POLE	X		
27+84.66	43.57 L	ELEC BOX	X		
28+99.42	25.59 L	POWER POLE	X		
29+01.81	41.36 L	ELEC BOX	X		
30+75.43	44.72 R	ELEC BOX	X		
30+77.56	44.45 R	ELEC BOX	X		
30+76.95	38.76 R	ELEC BOX	X		
30+74.70	39.04 R	ELEC BOX	X		
30+70.07	42.44 L	ELEC BOX	X		
30+68.04	42.10 L	ELEC BOX	X		
30+69.14	48.05 L	ELEC BOX	X		
30+67.20	47.73 L	ELEC BOX	X		
32+19.15	45.71 L	POWER POLE	X		
34+35.80	25.60 L	POWER POLE		X	
34+72.63	31.50 R	POWER POLE	X		
36+04.82	26.99 L	POWER POLE		X	
36+89.52	28.45 L	POWER POLE	X		
37+26.39	28.71 R	POWER POLE	X		
38+44.56	31.57 L	POWER POLE	X		
39+80.4	47.6 R	LIGHT POLE		X	
39+99.28	42.85 R	ELEC BOX	X		
39+99.26	40.76 R	ELEC BOX	X		
39+93.54	40.88 R	ELEC BOX	X		
39+93.61	42.99 R	ELEC BOX	X		
40+13.83	35.43 L	POWER POLE	X		
40+19.71	41.65 L	ELEC BOX	X		
41+85.73	21.48 L	POWER POLE	X		
41+28.38	38.63 L	POWER POLE	X		
42+73.66	45.27 L	ELEC BOX	X		

STATION LOCATION		INPLACE UTILITY	LEAVE AS IS	RELOCATE
42+70.42	45.27 L	ELEC BOX	X	
42+70.49	41.86 L	ELEC BOX	X	
42+73.78	41.81 L	ELEC BOX	X	
43+59.86	44.88 L	LIGHT POLE		X
45+16.81	49.26 L	ELEC BOX	X	
45+74.29	23.03 L	LIGHT POLE		X
46+15.67	51.53 L	POWER POLE	X	
47+36.50	42.62 R	ELEC BOX	X	
47+36.49	40.84 R	ELEC BOX	X	
47+30.94	41.27 R	ELEC BOX	X	
47+30.97	43.39 R	ELEC BOX	X	
48+89.79	35.79 L	POWER POLE	X	
49+26.52	36.58 R	POWER POLE	X	
51+79.62	34.83 R	POWER POLE	X	
51+54.20	34.08 L	POWER POLE	X	
53+99.86	36.43 L	POWER POLE	X	
56+05.80	26.29 R	ELEC BOX	X	
56+00.06	26.14 R	ELEC BOX	X	
55+99.89	28.33 R	ELEC BOX	X	
56+05.79	28.52 R	ELEC BOX	X	
56+10.74	39.64 R	POWER POLE	X	
56+39.12	37.71 L	POWER POLE	X	
58+54.25	36.15 R	POWER POLE	X	
58+99.08	36.90 L	POWER POLE	X	
61+79.51	35.37 L	POWER POLE	X	
63+03.30	35.40 L	POWER POLE	X	
63+57.84	30.64 R	ELEC BOX	X	
63+57.75	28.57 R	ELEC BOX	X	
63+52.01	28.71 R	ELEC BOX	X	
63+52.13	30.79 R	ELEC BOX	X	
64+45.88	32.00 L	POWER POLE	X	
65+26.34	33.37 R	POWER POLE	X	
66+24.34	35.40 L	POWER POLE	X	
67+51.69	80.62 R	POWER POLE	X	
68+07.59	34.61 L	POWER POLE	X	
69+46.99	53.99 R	ELEC BOX	X	
69+47.06	51.72 R	ELEC BOX	X	
69+52.87	53.75 R	ELEC BOX	X	
69+52.83	51.63 R	ELEC BOX	X	
69+87.14	34.35 L	POWER POLE	X	
70+81.29	33.63 R	POWER POLE	X	
71+46.09	33.65 L	POWER POLE	X	
73+21.19	33.35 L	POWER POLE	X	
73+33.24	32.47 R	POWER POLE	X	
74+63.38	43.57 L	POWER POLE	X	
75+41.83	25.88 R	POWER POLE	X	
75+24.85	40.35 L	POWER POLE	X	

30TH AVE SE				
100+72.69	31.05 L	POWER POLE	X	
100+52.97	30.85 R	POWER POLE	X	
103+71.21	29.73 R	POWER POLE	X	
105+95.15	32.02 R	POWER POLE	X	
106+25.39	33.61 R	POWER POLE	X	
108+75.89	74.28 R	POWER POLE	X	
111+22.33	73.69 R	POWER POLE	X	
113+56.29	38.03 R	POWER POLE	X	
113+77.80	37.24 R	POWER POLE	X	
116+48.50	27.92 L	POWER POLE	X	
116+74.80	33.66 R	POWER POLE	X	
117+89.97	28.76 L	POWER POLE	X	
117+89.88	32.40 R	POWER POLE	X	
119+52.14	28.98 R	POWER POLE	X	
120+31.39	59.27 L	POWER POLE	X	
121+17.14	46.11 L	POWER POLE	X	
123+71.10	60.44 R	POWER POLE	X	
125+33.50	32' L	LIGHT POLE		X

NOTES
THE "LEAVE AS IS" AND "RELOCATE" COLUMNS ARE BASED UPON THE BEST INFORMATION AVAILABLE AND MAY NOT REFLECT THE ACTUAL EFFECTS ON THE UTILITIES CONSTRUCTION. ACTUAL DETERMINATION WILL BE MADE IN THE FIELD DURING CONSTRUCTION.

UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. THE CONTRATOR SHALL DETERMINE THE ACTUAL LOCATION OF ALL UTILITIES IN THE FIELD.

ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS UNLESS NOTED.

EXISTING UTILITIES - MINNESOTA ENERGY RESOURCES

STATION LOCATION		INPLACE UTILITY	LEAVE AS IS	RELOCATE	NOTES
PINEWOOD ROAD SE					
15+09.05	14.96 R	GAS MAIN			
22+21.13	38.10 L	GAS MAIN			
23+06.32	37.01 L	GAS MAIN			
30+95.09	38.56 L	GAS MAIN			
35+40.03	18.42 L	GAS MAIN			
39+31.64	50.06 R	GAS MAIN			
40+06.14	32.72 L	GAS MAIN			
40+05.70	26.49 L	GAS MAIN			
74+21.32	56.91 R	GAS MAIN			
15+15.20	39.67 L	GAS MAIN			
30TH AVE SE					
100+93.92	14.98 R	GAS MAIN			
108+82.26	27.69 R	GAS MAIN			
108+82.35	71.78 R	GAS MAIN			
100+93.92	14.98 R	GAS MAIN			
111+19.05	71.54 R	GAS MAIN			
111+17.83	19.87 R	GAS MAIN			
120+99.12	119.55 L	GAS MAIN			
121+19.36	85.43 L	GAS MAIN			
121+62.63	246.39 L	GAS MAIN			

EXISTING UTILITIES QWEST COMMUNICATIONS

STATION LOCATION		INPLACE UTILITY	LEAVE AS IS	RELOCATE	NOTES
PINEWOOD ROAD					
10+91.19	94.79 R	TELE BOX	X		
10+94.99	26.87 R	TELE BOX		X	
10+88.63	27.21 R	TELE BOX		X	
13+12.52	35.56 R	TELE BOX	X		
14+67.16	44.67 R	TELE BOX	X		
16+23.15	32.92 R	TELE BOX	X		
20+48.24	41.18 L	TELE BOX	X		
20+53.93	56.10 R	TELE BOX	X		
23+22.50	38.43 L	TELE BOX	X		
23+29.76	37.47 L	TELE BOX	X		
24+90.76	42.96 L	TELE BOX	X		
25+81.16	42.05 L	TELE BOX	X		
26+85.96	42.22 L	TELE BOX	X		
27+85.74	42.84 L	TELE BOX	X		
29+03.74	40.99 L	TELE BOX	X		
30+10.03	45.90 R	TELE BOX	X		
30+70.36	39.76 L	TELE BOX	X		
34+71.62	31.99 R	TELE BOX	X		
40+06.91	49.61 R	TELE BOX	X		
40+10.95	44.56 R	TELE BOX	X		
40+10.93	42.37 R	TELE BOX	X		
40+06.03	42.38 R	TELE BOX	X		
40+08.05	44.64 R	TELE BOX	X		
40+01.36	47.45 R	TELE BOX	X		
39+98.34	47.38 R	TELE BOX	X		
39+98.32	48.71 R	TELE BOX	X		
40+01.31	48.70 R	TELE BOX	X		
40+21.05	40.86 L	TELE BOX	X		
42+68.80	42.28 L	TELE BOX	X		
45+19.45	49.00 L	TELE BOX	X		
46+27.60	51.77 L	TELE BOX	X		
63+05.26	34.97 L	TELE BOX	X		
64+46.56	30.20 L	TELE BOX	X		
66+59.74	36.25 R	TELE BOX		X	
68+07.40	34.23 L	TELE BOX	X		
69+88.10	33.40 L	TELE BOX	X		
70+65.93	30.84 R	TELE BOX	X		
71+45.52	32.70 L	TELE BOX	X		
73+21.69	31.70 L	TELE BOX	X		
74+64.35	42.77 L	TELE BOX	X		
75+41.12	26.58 R	TELE BOX		X	
30th AVE SE					
100+71.68	30.23 L	TELE BOX	X		
103+21.90	30.42 L	TELE BOX	X		
111+22.84	49.81 L	TELE BOX	X		
112+87.31	46.75 L	TELE BOX	X		
116+53.05	32.37 L	TELE BOX	X		
117+93.97	31.98 L	TELE BOX	X		
119+78.12	37.52 L	TELE BOX	X		
124+61.32	61.79 R	TELE BOX	X		

EXISTING UTILITIES CHARTER COMMUNICATIONS

STATION LOCATION		INPLACE UTILITY	LEAVE AS IS	RELOCATE
PINEWOOD ROAD SE				
25+76.11	42.32 L	CABLE BOX	X	
26+79.70	41.80 L	CABLE BOX	X	
27+82.59	42.57 L	CABLE BOX	X	
28+99.47	41.11 L	CABLE BOX	X	
30+68.13	50.94 L	CABLE BOX	X	
40+01.27	51.86 R	CABLE BOX	X	
40+21.31	35.15 L	CABLE BOX	X	
42+75.28	42.27 L	CABLE BOX	X	
43+26.09	42.70 L	CABLE BOX	X	
45+14.67	48.31 L	CABLE BOX	X	
30TH AVE SE				
105+45.79	28.37 L	CABLE BOX	X	

Revision comment: —
Revised: —
Creation Date:

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.
Russell J. Klein Date: 07/27/11 Reg. No. 24657

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Department Of Public Works
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Title: TABULATIONS
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001 J 7257
Project No. M7-18
Sheet 9 of 173 Sheets

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REMOVE BITUMINOUS PAVEMENT (B)

STATION LOCATION	PAVEMENT (SY)	DRIVES (SY)	WALK (SF)
PINEWOOD ROAD SE			
COUNTY RD 1 TO 30TH AVE	26,145.00		
10+55.51 R			131.58
11+92.58 R			
12+23.33 R			183.33
14+06.91 R			
14+48.97 R			364.33
19+68.74 R			
16+95.44 R		21.49	
19+84.74 R		78.27	
32+70.58 L		51.69	
33+55.27 L		13.72	
34+25.41 L		7.31	
37+04.20 L		36.32	
37+84.32 L		52.41	
39+50.08 R		18.95	
48+62.23 R		27.35	
51+35.14 R		20.71	
55+41.36 R		22.76	
63+71.84 R		33.92	
64+58.20 L		35.09	
71+65.40 R		44.87	
72+19.06 L		47.28	
72+38.42 L		47.28	
72+51.87 R		31.03	
74+91.04 R		32.92	
SUBTOTAL	26,145.00	623.36	679.25
30TH AVE SE			
PINEWOOD RD TO COUNTY RD 36	3,013.33		
104+73.32 9.98 R		129.56	
118+20.9 15' R		10.92	
122+76.21 10.96 R		148.67	
SUBTOTAL	3,013.33	289.15	
TOTAL	29,158.33	912.51	679.25

SALVAGE AND INSTALL FENCE (C)

STATION LOCATION	WOOD	WOVEN WIRE	NOTES
PINEWOOD ROAD SE			
13+26.75 32.41 R	27.00		
13+49.91 30.59 R			
65+26.92 32.53 R		156.00	
66+77.44 44.77 R			
TOTAL	27.00	156.00	

REMOVE CONCRETE (D)

STATION LOCATION	SIDEWALK (SF)	CURB (LF)	DRIVE (SQ YD)
PINEWOOD ROAD SE			
12+34.87 R	38.13		
14+14.46 R		5.00	
14+44.55 R		8.00	
20+26.21 L		11.00	
20+37.21 L			
22+49.57 L		11.00	
22+60.56 L			
27+80.99 L		11.00	
27+91.99 L			
28+90.03 R	72.45	144.60	
30+26.71 R			
30+60.29 R	73.69	104.00	
31+56.40 R			
30+65.33 L		11.00	
30+86.33 L			
39+97.64 R	185.60	78.40	
39+89.29 R			
41+60.71 L			68.71
43+93.79 L			65.37
45+99.18 L			61.83
63+50.91 L			31.52
63+81.80 L			31.25
66+34.29 R	165.06	238.48	
68+56.61 R			
68+69.01 R		44.57	
69+03.61 R			
69+28.10 R	164.33	61.73	
69+74.96 R			
69+59.23 L			23.58
69+95.78 R			45.56
TOTAL	699.26	728.78	327.83

CLEARING AND GRUBBING (E)

STATION LOCATION	CLEAR & GRUB (ACRE)	EACH	NOTES
PINEWOOD ROAD SE			
10+93.40 79.57 L	0.05		
11+16.30 68.80 L			
11+53.58 67.49 L	0.05		
12+22.20 64.86 L			
12+27.03 63.80 L	0.05		
12+67.07 54.26 L			
13+11.77 51.25 L	0.05		
14+78.76 52.18 L			
18+04.78 43.67 L	0.05		
18+58.43 46.99 L			
56+63.0 42.0 L	0.01		
56+87.0 43.2 L			
27+46.68 23.46 R		1.00	
27+41.14 28.96 R		1.00	
27+32.25 28.76 R		1.00	
27+40.52 23.09 R		1.00	
27+53.00 27.51 R		1.00	
59+81.00 19.3' R		1.00	
60+83.9 32.68 R		1.00	
65+39.35 24.20 R		1.00	
66+65.06 32.64 R		1.00	
SUBTOTAL	0.26	9.00	
30TH AVE SE			
102+45.36 24.78 R		1.00	
105+16.71 30.46 R		1.00	
102+56.22 25.15 R		1.00	
103+20.00 33.00 R		1.00	
SUBTOTAL		4.00	
TOTAL	0.26	13.00	

RELOCATE MAILBOXES (F)

STATION LOCATION	RELOCATE
PINEWOOD ROAD SE	
12+35 R	5.00
21+28 R	1.00
22+57 R	1.00
23+46 R	1.00
24+42 R	1.00
25+13 R	1.00
26+08 R	1.00
26+77 R	1.00
27+51 R	1.00
27+94 R	1.00
32+90 L	1.00
33+72 L	1.00
34+40 L	1.00
36+04 L	2.00
39+81 48' R	1.00
40+14 L	3.00
48+70 R	1.00
54+42 R	1.00
55+69 R	1.00
58+50 R	2.00
61+01 R	1.00
62+02 R	1.00
63+92 R	3.00
66+88 R	1.00
69+57 R	2.00
70+08 R	1.00
71+45 R	1.00
72+00 R	2.00
72+25 R	2.00
74+71 R	1.00
76+30 R	1.00
SUBTOTAL	44.00
30TH AVE SE	
101+20 L	1.00
102+43 L	1.00
103+12 L	2.00
104+16 L	2.00
112+80 L	1.00
115+57 L	1.00
117+83 L	1.00
118+09 L	1.00
122+57 L	2.00
117+83 L	
SUBTOTAL	12.00
TOTAL	56.00

Revision comment:
Revised: —
Creation Date: —

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.
Russell J. Kline Date: 07/27/11 Reg. No. 24687

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Title: TABULATIONS

Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 10 of 173 Sheets

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CONSTRUCT DRIVEWAYS (G)

LOCATION		CONCRETE					BITUMINOUS			
		WIDTH (FT)	TYPE	RESIDENTIAL (6") (1)	COMMERCIAL (7") (1)	SAW-CUT (LF)	1.5" 2360 TYPE LV WEAR (SPWEB230B)	1.5" 2360 TYPE LV NON-WEAR (SPNWEB230B)	6" AGG BASE (CL 5)	SAW-CUT (LF)
PINEWOOD ROAD				(SY)	(SY)		(TON)	(TON)	(CY)	
16+72.12	L	24'	B		21.52		1.46	1.94	2.87	22.68
16+95.63	R	32'	B		18.07		0.84	1.12	1.66	32.00
19+05.33	L	12'	B		8.01					
19+84.74	R	32'	B		18.06		1.81	2.41	3.56	32.00
21+11.64	R	14'	B	8.81			0.79	1.06	1.56	
22+42.07	R	12'	B	7.85			0.68	0.90	1.33	
23+64.58	R	12'	B	7.92			0.69	0.92	1.35	
24+58.85	R	12'	B	7.85			0.68	0.90	1.33	
25+28.02	R	12'	B	7.85			0.68	0.90	1.33	
26+20.59	R	12'	B	7.85			0.68	0.90	1.33	
26+93.83	R	18'	B	10.76			1.02	1.36	2.00	
27+21.74	R	16'	B	9.77			0.90	1.21	1.78	
28+11.79	R	16'	B	9.77			0.91	1.22	1.80	
32+70.73	L	26'	B	14.49			0.97	1.30	1.92	37.55
33+55.33	L	22'	B	12.71			1.24	1.65	2.44	
34+25.44	L	12'	B	16.31		12.60				
35+90.33	L	16'	B	9.77			0.90	1.21	1.78	
36+16.78	L	14'	B	8.81			0.79	1.05	1.56	
37+04.21	L	16'	B	9.77			0.90	1.20	1.78	16.00
37+84.23	L	24'	B	13.62			1.36	1.81	2.67	26.50
38+59.78	L	18'	B	10.73			1.02	1.36	2.00	
39+39.93	L	20'	B	13.09			1.31	1.75	2.58	25.00
41+59.96	L	20'	B	42.64		29.10				
43+92.86	L	20'	B	40.39		19.90				
45+97.59	L	20'	B	40.32		19.70				
48+62.23	R	16'	B	9.71			0.90	1.20	1.77	16.42
51+37.76	L	12'	B	7.85			1.24	1.66	2.44	
54+31.45	R	18'	B	10.71			1.00	1.34	1.97	
55+41.14	R	12'	B	7.86			0.68	0.90	1.33	12.70
58+69.86	L	20'	B	11.86			2.06	2.75	4.05	
58+76.36	R	12'	B	7.85			2.36	3.15	4.65	
59+53.38	L	16'	B	9.77			1.66	2.21	3.26	
61+21.93	R	12'	B	7.84			0.82	1.09	1.61	
62+11.90	L	20'	B	9.96			1.70	2.27	3.35	
62+88.09	L	20'	B	11.69			2.07	2.76	4.07	
63+50.90	L	16'	B	29.33		15.00				
63+69.77	R	12'	B	7.85			0.69	0.92	1.35	14.40
63+81.88	L	16'	B	29.29		14.90				
64+58.38	L	18'	B	10.65			1.55	2.07	3.05	
67+07.15	R	12'	B	7.85						
69+59.18	L	22'	B	38.62		21.70				
69+96.79	R	12'	B	14.86		9.90				
71+65.39	R	20'	B	11.75			1.13	1.51	2.23	21.00
72+28.16	L	32'	B	17.47			3.68	4.91	7.24	41.80
72+51.86	R	12'	B	7.85			0.68	0.90	1.33	11.10
74+90.79	R	12'	B	7.88			0.22	0.29	0.42	14.10
		SUBTOTAL		589.56	65.66	142.80	42.08	56.10	82.74	323.25
30TH AVE SE										
103+12.0	R						1.43	3.33	2.80	
104+73.2	R						6.09	14.20	11.97	47.90
112+40.7	L						2.91	6.79	5.72	
118+20.9	L	20'								11.80
122+79.95	R	30'	B		17.69		6.25	14.58	12.29	57.10
		SUBTOTAL			17.69		16.67	38.90	32.79	116.80
		TOTALS		589.56	83.34	142.80	58.75	95.00	115.53	440.05

(1) INCLUDES 4" AGGREGATE BASE (CL 5)

CONSTRUCT ROADWAY (H)

PINEWOOD ROAD SE		12" AGG. BASE (CL 5)		6" AGG. SHOULDER (CL.5)	2" 2360 TYPE LV NON-WEAR (SPNWB330B) (1)	2" 2360 TYPE LV WEAR (SPWEB340C) (1)	2" 2360 TYPE LV WEAR (SPWEA340C) (1)	SAW-CUT BIT	NOTES
FROM	TO	(CU YD)		(CU YD)	(TON)	(TON)	(TON)		
10+43.04	14+23.33	828.70			311.27	249.01	249.01	46.40	
14+23.33	23+61.01	1360.52			505.75	404.60	404.60	78.30	
23+61.01	30+39.15	961.00			373.29	298.63	298.63	64.80	
30+39.15	35+09.24	698.56			254.86	203.89	203.89	59.20	
35+09.24	39+47.37	678.59			244.08	195.26	195.26	29.60	
39+47.37	51+46.24	1699.33			596.47	477.17	477.17		
51+46.24	56+35.43	725.56			258.57	206.85	206.85	33.20	
56+35.43	66+65.74	1508.19			536.80	429.44	429.44	23.00	
66+65.74	68+86.54	448.52			167.43	133.94	133.94	23.80	
68+86.54	71+09.99	384.00			139.95	111.96	111.96	35.80	
71+09.99	75+84.76	668.74			246.72	197.37	197.37	23.80	
75+84.76	77+02.56	203.52		8.72		61.28	61.28	23.60	TRANSITION
	SUBTOTAL	10,165.22		8.72	3,635.18	2,989.43	2,989.43	441.50	

30TH AVE SE		12" AGG. BASE (CL.5)	8" AGG. BASE (CL.5)	6" AGG. SHOULDER (CL.5)	2" 2360 TYPE LV NON-WEAR (SPNWB330B) (1)	2" 2360 TYPE LV WEAR (SPWEB340C) (1)	2" 2360 TYPE LV WEAR (SPWEA340C) (1)	SAW-CUT BIT	NOTES
FROM	TO	(CU YD)	(CU YD)	(CU YD)	(TON)	(TON)	(TON)		
100+73.62	120+34.77		812.14	139.17		410.52	410.52	22.40	OVERLAY
120+34.77	125+50.54	963.07			352.97	282.37	282.37	27.80	URBAN
100+75	120+34.69							3,850.00	
125+45.6 L								8.40	
125+59.6 R								8.70	
	SUBTOTAL	1,775.21		156.61	352.97	692.89	692.89	3,917.30	
	TOTALS	11,940.44		165.33	3,988.15	3,662.32	3,662.32	4,358.80	

NOTES:
(1) QUANTITIES COMPUTED AT A RATE OF 113/LBS/SQ YD/INCH

CONSTRUCT CURB AND GUTTER (I)

LOCATION				TYPE B424 (LF)	TYPE B624 (LF)	TYPE B624 MODIFIED (LF)	NOTES
PINEWOOD ROAD SE							
10+57.16	80.80	L	COUNTY RD 1				
19+19.90	22.49	L		30.00	902.37		
10+57.18	69.26	R	COUNTY RD 1				
11+95.77	31.77	R	PINEWOOD ROAD SE		172.26		
12+18.70	32.00	R	PINEWOOD ROAD SE				
14+13.96	38.35	R	18TH AVE SE		217.52		
14+45.99	38.58	R	18TH AVE SE				
30+24.71	41.71	R	21ST AVE SE		1610.78		
20+26.21	22.39	L					CURB
20+37.21	22.37	L				11.00	REPLACEMENT
22+49.57	22.01	L					CURB
22+60.57	22.02	L			11.00		REPLACEMENT
27+80.99	20.93	L					CURB
27+91.99	20.94	L			11.00		REPLACEMENT
30+62.16	40.23	R	21ST AVE SE				
35+02.76	34.57	R	22ND AVE SE		463.14		
30+65.34	20.48	L					CURB
30+86.05	20.30	L			21.00		REPLACEMENT
31+90.06	20.74	L					
66+48.92	35.04	L	FAIRVIEW CT SE		3467.67		
35+41.97	45.97	R	22ND AVE SE				
39+41.40	36.18	R	23RD AVE SE		438.47		
39+98.18	81.70	R	23RD AVE SE				
51+34.50	38.76	R	25TH AVE SE		1240.07		
51+67.94	43.45	R	25TH AVE SE				
56+20.17	40.42	R	26TH AVE SE		491.12		
56+52.32	41.69	R	26TH AVE SE				
68+54.86	54.44	R	PINEWOOD RIDGE SE		1240.63		
66+81.93	33.50	L	FAIRVIEW CT SE				
70+88.43	36.18	L	FAIRVIEW CT SE		219.99		
68+70.91	39.09	R	PINEWOOD RIDGE SE				
69+01.62	39.53	R			15.53		
69+30.11	53.34	R	PINEWOOD RIDGE SE				
75+02.56	17.00	R	30TH AVE SE		595.90		
71+21.33	32.43	L	FAIRVIEW CT SE				
74+52.84	17.00	L	30TH AVE SE		341.25		
			SUBTOTAL	30.00	12,481.61	11.00	
30TH AVE SE							
120+21.71	30.41	L	22ND ST SE				
125+46.39	84.79	L	MARION ROAD SE		564.21		
120+32.59	17.00	R	22ND ST SE				
124+36.17	44.17	R	MARION LANE SE		400.69		
124+57.29	44.22	R	MARION LANE SE				
125+51.18	76.97	R	MARION ROAD SE	30.00	148.82		
			SUBTOTAL	30.00	1,113.72		
			TOTALS	60	13,595	11	

Revision comment: —
Revised: —
Creation Date:

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: 07/27/11 Reg. No. 24667

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Title: TABULATIONS

Designer: RJW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 11 of 173 Sheets

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CONSTRUCT CONCRETE WALK (J)

LOCATION - OFFSET			DEPTH 4" (SQ FT) (1)	DEPTH 5" (SQ FT) (2)	DEPTH 6" (SQ FT) (2)	DEPTH 7" (SQ FT) (2)	TRUNCATED DOMES
PINEWOOD							
10+77.85	41.8	L			323.68		40.96
10+75.81	35.3	R			401.71		82.57
10+82.33	32.8	R	376.38				
11+82.40	24.5	R					
11+87.85	24.5	R			80.04		8
12+27.04	24.5	R			79.88		8
12+31.72	24.5	R	838.17				
14+00.40	24.5	R					
14+05.76	24.5	R			99.12		8
14+51.45	24.5	R			98.32		8
14+57.92	35.6	R	852.09				
16+24.09	24.5	R					
19+05.33	22.8	L					24
19+05.54	27.3	L				67.31	
16+24.09	24.5	R		1,851.47		320.05	10
20+54.24	24.5	R					
20+54.24	24.5	R	251.99				
21+04.61	24.5	R					
21+11.64	24.5	R			70.07		
20+26.21	24.5	L	74.11				
20+37.11	26.8	L					
21+18.64	24.5	R	586.99				
22+36.07	24.5	R					
22+42.07	24.5	R			59.97		
22+48.07	24.5	R	551.71				
23+58.50	24.5	R					
23+64.58	24.5	R			60.75		
23+70.66	24.5	R	410.86				
24+55.55	26.6	R					
24+59.88	24.5	R			59.39		
24+64.85	26.9	R	285.42				
25+22.80	26.9	R					
25+28.02	24.5	R			59.95		
25+34.02	27.0	R	402.08				
26+14.59	27.0	R					
26+20.59	24.5	R			59.88		
26+26.59	27.0	R	290.53				
26+84.83	27.0	R					
26+93.83	24.5	R			89.68		
27+02.83	27.0	R	54.45				
27+13.74	27.0	R					
27+21.74	24.5	R			79.8		
27+29.74	27.0	R	369.26				
28+03.79	27.0	R					
28+11.79	24.5	R			80.13		
28+19.66	27.0	R	925.45				
30+06.74	27.0	R					
30+13.99	24.5	R			169.96		26
30+65.77	26.8	R			125.62		26
30+68.61	35.7	R	2,042.97				
34+87.72	27.0	R					
31+75.52	35.3	L	427.03				
32+57.87	26.8	L					
32+70.62	24.0	L			130.21		
32+83.48	26.2	L	309.97				
33+44.48	24.6	L					
33+55.27	22.0	L			109.77		
33+66.12	24.5	L	271.16				
34+19.52	24.5	L					

20+26.21	24.5	L	22.00	5" EXPOSED AGGREGATE
20+37.11	26.8	L		

(1) INCLUDES 1" AGGREGATE BASE (CL 5)
(2) INCLUDES 4" AGGREGATE BASE (CL 5)

CONSTRUCT CONCRETE WALK (J)

LOCATION - OFFSET			DEPTH 4" (SQ FT) (1)	DEPTH 5" (SQ FT) (2)	DEPTH 6" (SQ FT) (2)	DEPTH 7" (SQ FT) (2)	TRUNCATED DOMES
34+31.36	24.5	L	760.88				
35+82.33	24.5	L					
34+25.44	22	L			60.09		
34+93.58	24.5	R			79.62		8
35+45.60	24.5	R			80.14		8
35+50.41	24.5	R	1,875.22				
39+25.46	24.5	R					
35+90.33	22	L			80		
35+98.33	24.5	L	57.25				
36+09.78	24.5	L					
36+16.78	22	L			70		
36+23.78	24.5	L	362.15				
36+96.21	24.5	L					
37+04.21	22				80		
37+12.21	24.5	L	300.08				
37+72.23	24.5	L					
37+84.23	22	L			120		
37+95.11	26.3	L	272.75				
38+50.78	24.5	L					
38+59.78	22	L			90		
38+68.78	24.5	L	298.51				
39+26.48	24.5	L					
39+30.32	24.5	R			84.7		8
39+39.93	22.0	L			114.49		
39+51.38	22.0	L	996.25				
41+50.49	24.5	L					
41+60.49	22.0	L			99.89		
39+81.41	27.8	R			194.06		8
39+89.35	23.8	R	4,349.46				
48+54.35	24.5	R					
48+62.23	22	r			80.13		
41+70.47	24.5	L	1,062.75				
43+83.02	24.5	L					
43+92.98	22	I			99.84		
44+03.02	24.5	L	934.58				
45+89.93	24.5	L					
46+00.34	22	I			100.21		
46+09.98	24.5	L	525.62				
47+16.77	25.5	L					
48+70.12	24.5	R	1,248.47				
51+19.54	24.5	R					
51+25.19	23.7	R			84.68		8
51+73.81	23.8	R			80.02		8
51+79.09	24.5	R	1,217.08				
54+22.51	24.5	R					
54+40.38	24.5	R	472.64				
55+34.64	25.5	R					
54+31.45	22	R			89.04		
55+41.36	22	R			60		
55+47.36	24.5	R	291.21				
56+05.60	24.5	R					
56+12.09	25.1	R			90.05		8
56+60.06	24.5	R			76.66		8
56+64.57	24.5	R	1,113.58				
58+70.36	24.5	R					
58+76.36	22	R			60		
58+82.36	24.5	R	1,221.09				
61+16.06	24.5	R					
61+21.93	22	R			60		
61+27.80	24.5	R	1,197.82				
63+63.77	24.5	R					
63+69.77	22	R			60		
63+75.77	24.5	R	1,633.56				
67+01.15	36.5	R					
67+07.15	34	R			60		
67+13.15	36.5	R	620.54				
68+37.26	36.5	R					
68+45.88	43.2	R			242.93		8
69+36.89	36.8	R			344.5		8
69+47.73	24.5	R	216.56				
69+91.04	24.5	R					
69+96.81	22	R			57.61		
70+02.57	24.5	R	764.08				
71+55.39	24.5	R					
71+65.39	22	R			100		
71+75.39	24.5	R	352.35				
72+45.86	24.5	R					
72+51.86	24	R			60		
72+57.86	24.5	R	1,121.62				
74+84.59	24.5	R					
74+90.79	22	R			59.96		
74+96.99	24.5	R	16.87				
75+00.48	24.5	R					
	SUBTOTAL		32,804	1,851	5,257	387	322

30TH AVE SE							
120+27.96	24.5	L			72.91		8
120+33.17	24.5	L	2,465.08				
125+37.15	82.8	L					
120+34.77	24.5	R		1,007.94			
122+62.35	25.9	R					
73+83.39	24.7	R				157.36	
122+98.23	28.8	R		672.94			
124+24.68	36.5	R					
124+29.62	36.0	R			128.16		8
124+63.48	36.7	R			128.16		8
124+68.62	36.5	R	386.66				
125+36.00	66.0	L			465.46		53.53
125+38.20	49.3	R			315.61		53.53
	SUBTOTAL		2,852	1,681	1,111	158	132
	TOTALS		35,456	3,632	6,368	545	454

STANDARD DETAIL PLATES

CITY OF ROCHESTER

NO.	DETAIL PLATE
1-01	STRUCTURE TYPE 1
1-04	STRUCTURE TYPE 4 (XX)
1-12	STRUCTURE ADJUSTING RINGS
2-01	CONCRETE CURB & GUTTER
2-02	CONCRETE SILL
2-04	BITUMINOUS CURB
2-05	TRANSITION CURB & GUTTER DRIVEOVER TO TYPE B OR V
2-06	CURB & GUTTER REINFORCEMENT AT CATCH BASINS
2-08	CONCRETE DRIVE APPROACH TYPE B
2-12	RURAL AT-GRADE INTERSECTION
2-13	PEDESTRIAN CURB RAMP
2-14	SIDEWALK DETAILS
3-02	TYPICAL SECTION OFF-ROAD BIKEWAY
4-03	STREET CROSSINGS FOR UTILITY CONDUITS
5-02	POLYSTYRENE INSULATION
6-04	HYDRANT BRANCH DETAIL
6-05	RESTRAINED JOINT DETAIL
6-06	POLYETHYLENE ENCASEMENT
7-01	SILT FENCE DETAILS
7-02	FLOTATION SILT CURTAINS
7-03	TEMPORARY SEDIMENT CONTROL – DITCH CHECKS
7-04	BALE BARRIERS
7-05	INLET PROTECTION
7-06	TEMPORARY ROCK CONSTRUCTION ENTRANCE
7-07	TURF REINFORCEMENT MAT FOR CHANNEL
7-08	SEDIMENT MAT
7-09	SEDIMENT TRAP DETAIL

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION SHALL APPLY ON THIS PROJECT

STATE OF MINNESOTA

NO.	DETAIL PLATE
3000L	REINFORCED CONCRETE PIPE
3006G	GASKET JOINT FOR R.C. PIPE
3014J	REINFORCED CONCRETE PIPE-ARCH
3040F	CORRUGATED METAL PIPE CULVERT
3100G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3133C	RIPRAP AT RCP OUTLETS
3145F	CONCRETE PIPE TIES
5010A	REINFORCED CONCRETE PIPE ENERGY DISSIPATOR
7038A	DETECTABLE WARNING SURFACE
8000I	STANDARD BARRICADES
9102D	TURF ESTABLISHMENT AREAS (AT PIPE CULVERT ENDS)

CONSTRUCT BITUMINOUS BIKEPATH (K)

LOCATION - OFFSET			BITUMINOUS BIKE PATH (LF) (2)	BITUMINOUS QUANTITIES (1) TONS	AGG. BASE (CL 5) CY
PINEWOOD					
10+73.31	80.9	L	867	188.83	159.15
18+99.64	26.9	L			
19+11.32	30.3	L	10	1.18	0.99
19+19.81	19.9	L			
TOTALS			877	190	160

(1) QUANTITY COMPUTED AT A RATE OF 113/LBS/SQ YD/INCH
(2) INCLUDES 3" BIT UMINOUS AND 6" AGGREGATE BASE (CL 5)

Revision comment: –
Revised: –
Creation Date:

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: 07/27/11 Reg. No. 24667

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Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J 7257
Sheet 12 of 173 Sheets

EROSION CONTROL (L)

LOCATION			SILT FENCE TYPE MACHINE SLICED	SILT FENCE TYPE HEAVY DUTY	SEDIMENT REMOVAL BACKHOE	CLASS III RIP-RAP	CLASS IV RIP-RAP	GEOTEXTILE FILTER CLASS IV	TEMPORARY ROCK CONSTRUCTION ENTRANCE	INLET PROTECTION	TEMPORARY DITCH CHECK (TYPE 2)
PINEWOOD ROAD SE			LIN FT	LIN FT	HOUR	CU YD	CU YD	SQ YD	EACH	EACH	EACH
10+00.00	TO 15+75	R	264.90	10.00	0.92				1.00	4.00	
		L	578.50		1.93	17.10	14.50	45.51		5.00	
15+75	TO 20+75	R	128.80		0.43					3.00	
		L	301.60		1.01					3.00	
20+75	TO 25+75	R	381.20	50.00	1.44					6.00	
		L								1.00	
25+75	TO 30+75	R	332.50	20.00	1.18					5.00	
		L								2.00	
30+75	TO 35+75	R	436.80	20.00	1.52					11.00	
		L	283.20		0.94					3.00	
35+75	TO 40+75	R	199.30		0.66					6.00	
		L	214.80		0.72					1.00	
40+75	TO 45+75	R								4.00	
		L	431.70		1.44					2.00	
45+75	TO 50+75	R	314.70	20.00	1.12					5.00	
		L	478.60		1.60		47.50	66.86		3.00	
50+75	TO 55+75	R	505.00	40.00	1.82					5.00	
		L	467.20		1.56					2.00	
55+75	TO 60+75	R	98.80		0.33					8.00	
		L	370.10		1.23					2.00	
60+75	TO 65+75	R	322.00	20.00	1.14						
		L	357.80		1.19					1.00	
65+75 INCL. FARVIEW CT	TO 70+75	R	231.40	20.00	0.84					5.00	
		L	396.20		1.32		35.50	51.75		6.00	
70+75	TO 75+75	R	108.70		0.36					1.00	
		L	446.40		1.49					1.00	
75+75	TO 78+36.02	R	18.90		0.06				1.00		
		L	139.30		0.46						
SUBTOTAL			7,809	200	27	18	98	165	2	95	
30TH AVE											
100+00	TO 105+75	R	450.32	20.00	1.57						
		L	430.81		1.44						
105+75	TO 110+75	R	462.18		1.54						
		L	502.75		1.68						
110+75	TO 115+75	R	485.16		1.62						
		L	452.52		1.51						
115+75	TO 120+75	R	443.77		1.48						3.00
		L	226.30	10.00	0.79						
120+75	TO 126+03.42	R	462.07		1.54				1.00	3.00	2.00
		L	504.60	30.00		8.30		17.20		3.00	
SUBTOTAL			4,421.00	60.00	14.00	9.00		18.00	1.00	6.00	5.00
TOTAL			12,230	260	41	27	98	183	3	101	5

BASIS FOR QUANTITIES
SEDIMENT REMOVAL BACKHOE = 1 HOUR FOR EVERY 300 LIN. FT. OF SILT FENCE
GRANULAR FILTER BLANKET MAY BE SUBSTITUTED FOR GEOTEXTILE FABRIC TYPE IV

TURF ESTABLISHMENT (M)

LOCATION			RAPID STABILIZATION METHOD 3	SEED MIXTURE 340	FERTILIZER TYPE 3	AGRICULTURAL LIME	HYDRAULIC SOIL STABILIZER TYPE 6	SODDING MINERAL	SODDING EROSION	EROSION STABILIZATION MAT (CL 2)	SEEDING
PINEWOOD ROAD			MGALLONS	POUND	POUND	TON	POUND	SQ YD	SQ YD	SY	ACRE
10+00	TO 15+75	R			19.68	0.20		476.26	33.89		
		L	0.56	15.82	20.35	0.58	655.40	492.50			0.19
15+75	TO 20+75	R			18.60	0.19		450.20			
		L	0.05	1.36	16.49	0.20	56.40	399.01			0.02
20+75	TO 25+75	R			20.34	0.20		492.12			
		L			0.20	0.00		4.89			
25+75	TO 30+75	R			17.49	0.17		423.20			
		L			0.34	0.00		8.29			
30+75	TO 35+75	R			21.12	0.21		511.10			
		L			15.33	0.15		371.11			
35+75	TO 40+75	R			25.24	0.25		610.79			
		L			18.28	0.18		442.27			
40+75	TO 45+75	R			70.06	0.70		1,695.50			
		L	0.34	9.63	29.69	0.52	398.78	718.40			0.11
45+75	TO 50+75	R			40.13	0.40		971.13			
		L			12.65	0.13		306.15			
50+75	TO 55+75	R			23.95	0.24		579.53			
		L	0.40	11.21	7.48	0.34	464.44	181.13			0.13
55+75	TO 60+75	R			48.10	0.48		1,164.00			
		L	0.05	1.45	16.45	0.20	59.96	398.07			0.02
60+75	TO 65+75	R			16.76	0.17		405.64			
		L			26.68	0.27		645.75			
65+75 (INCL. FAIRVIEW CT)	TO 70+75	R			15.20	0.15		367.96			
		L			54.50	0.55		1,318.92			
70+75	TO 75+75	R			22.04	0.22		533.28			
		L			30.79	0.31		745.22			
75+75	TO 78+36.02	R			1.55	0.02		37.57			
		L			4.21	0.04		101.92			
SUBTOTAL			2	40	614	8	1,635	14,852	34		0.5
30TH AVE											
100+00	TO 105+75	R			21.63	0.22		523.38	29.02		
		L			32.14	0.32		777.72			
105+75	TO 110+75	R			19.88	0.20		481.03			
		L			7.38	0.07		178.63			
110+75	TO 115+75	R			6.15	0.06		148.83			
		L			8.23	0.08		199.06			
115+75	TO 120+75	R			7.83	0.08		189.43			
		L			5.46	0.05		132.14			
120+75	TO 126+03.42	R			28.54	0.29		690.64	43.12		
		L	0.87	24.40	14.29	0.72	1,010.78	345.92		260.33	0.29
SUBTOTAL			1	25	152	3	1,011	3,667	73	261	0.3
TOTAL			3	65	766	11	2,646	18,519	107	261	0.8

BASIS FOR QUANTITIES
AGRICULTURAL LIME APPLIED AT A RATE OF 2 TONS/ACRE
RAPID STABILIZATION METHOD 3 = 1/2 DISTURBED AREA AT 6 MGALLONS/ACRE
TYPE 6 HYDRAULIC SOIL STABILIZER APPLIED AT A RATE OF 3,500 LBS/ACRE
SEED MIXTURE 340@84.5 LBS/ACRE
FERTILIZER RATE@200LBS/ACRE ON SODDED AREAS
FERTILIZER RATE @ 350 LBS/ACRE ON SEEDED AREAS

Revision comment: ADDENDUM #1
Revised: 08/23/11

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: 07/27/11 Reg. No. 24667

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TABULATIONS

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Designer: RLW
Checker: RJK

S.P. No. 159-166-001
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Project No. M7-18
J 7257
Sheet 13 of 173 Sheets

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INPLACE STORM SEWER STRUCTURES (N)

STATION-LOCATION		STRUCT TYPE	INPLACE CASTING EL.	ADJ MH (1)	ADJ CB (2)	NEW CASTING EL.	NEW T.C. EL.	SALVAGE PIPE APRON	REMOVE APRON	REMOVE MANHOLE OR CATCH BASIN	INL EL	OUTL EL	REMARKS
PINEWOOD ROAD SE													
10+81.17	56.02 L	STO_APR_ARC						1				1012.02-48"x32" CMP ARCH	
10+77.78	58.83 R	STO_APR_ARC						1				1014.01-8" PVC	
11+77.96	17.88 R	STO_DROP	1016.09									1011.02-27" RCP	
13+97.67	37.00 L	STO_OUTL								1			
14+13.17	34.99 R	CB_3'_WIDE	1015.98		1	1015.98	1016.63					1012.13-12" RCP E	
14+45.72	35.02 R	CB_3'_WIDE	1015.92		1	1015.92	1016.57					1011.96-12" RCP NW	
14+28.30	30.57 R	STO_MH	1016.53			1016.40							
15+40.16	40.25 R	STO_MH											
15+46.33	39.74 R	STO_MH											
15+45.24	21.25 R	STO_DROP	1015.10			1016.23				1	1012.58-24" S	1012.35-24" CMP N	
15+50.17	21.02 R	STO_DROP	1015.33			1016.26				1	1012.16-18" CMP SE	1012.12-24" CMP N	
16+25.04	39.86 R	STO_INL									1014.16-18" CMP NW		
20+18.84	42.64 L	STO_APR_ARC										1011.59-51"X 30" RCP ARCH N	
20+40.77	39.73 R	STO_APR_ARC									1012.06-51" X 30" RCP ARCH S		
20+25.73	44.36 L	STO_APR_ARC										1011.34-51" X 30" RCP ARCH N	
20+47.71	37.51 R	STO_APR_ARC									1012.16-51" X 30" RCP ARCH S		
23+52.42	50.13 L	STO_MH	1017.52								1012.65-12" RCP SE	1012.62-18" RCP N	
23+75.70	40.57 L	CB_3'_WIDE	1016.87									1013.25-12" RCP NE	
23+43.45	40.69 L	CB_3'_WIDE	1016.81									1013.88-12" RCP NW	
26+28.05	23.31 R	STO_OUTL										1017.15-4" PVC N	
26+26.64	39.66 R	STO_INL									1018.00-4" PVC S		
27+86.50	21.20 L	CB_3'_WIDE	1018.37							1		1016.08-12" RCP NE	
27+95.36	31.10 L	STO_MH	1019.51								1015.61-12" SW	1015.68-12" RCP E	
28+92.83	53.17 R	STO_APR_ARC										1017.32-18" X12" RCP ARCH SW	
29+22.19	32.96 R	STO_INV											
30+24.95	43.28 R	CB_3'_WIDE	1018.58									1016.79-12" RCP NE	
30+23.18	40.31 L	STO_MH	1019.24										
30+33.19	38.80 R	STO_MH	1019.19								1019.15-12" RCP W		
30+62.09	41.75 R	CB_3'_WIDE	1018.76									1016.79-12" RCP N	
30+76.33	38.28 R	STO_MH	1020.07										
31+95.65	37.54 R	STO_MH	1021.35										
31+98.81	53.30 R	STO_APR_RND											
31+87.85	48.16 L	STO_MH	1019.07										
32+12.20	35.10 R	STO_APR_RND						1			1017.74-27" RCP E		
32+11.81	19.84 R	STO_MH	1020.13	1									
32+14.28	28.06 R	STO_APR_RND									1017.85-27" RCP S		
33+15.99	21.87 R	STO_DROP	1019.97										12" RISER INPLACE
33+38.27	17.14 R	STO_MH	1020.71										SEE CONST. CHART
34+81.25	20.88 R	STO_MH	1021.79	1		1021.79					1016.97-30" S		
35+16.20	73.99 R	STO_DROP	1021.95										12" RISER INPLACE
39+76.10	45.12 R	CB_3'_WIDE	1027.27							1	1024.35-18" RCP NW	1024.28-18" RCP E	
39+81.84	54.14 R	CB_3'_WIDE	1027.44							1		1024.47-12" RCP S	
43+08.90	75.02 R	STO_INL									1022.95-24" X 44" RCP ARCH W		
43+67.68	46.27 R	STO_APR_ARC						1				1022.46-24" X 44" RCP ARCH E	
62+61.60	86.46 R	STO_APR_RND						1			1044.97-21" RCP NE		
63+47.99	17.42 R	STO_MH	1049.58							1	1044.42-21" RCP SW	1044.45-21" RCP E	
67+26.50	26.25 R	CB_3'_WIDE								1	1042.64-18" N	1042.62-24" N	
67+27.48	17.50 R	STO_MH	1047.30	1		1047.09					1041.95-21" RCP E		
67+27.91	33.91 R	STO_DROP	1045.62							1		1042.68-18" N	
68+62.89	17.27 R	STO_MH	1047.99	1		1047.80					1043.24-18" RCP N	1043.11-21" RCP W	
68+54.57	58.40 R	CB_3'_WIDE	1048.39									1044.62-12" E	
68+86.82	26.36 R	CB_3'_WIDE	1047.75		1	1047.44	1048.09				1043.64-15" RCP SE	1043.55-15" RCP NW	SEE CONST CHART
69+30.13	57.46 R	CB_3'_WIDE	1047.98									1044.25-15" RCP NW	
69+56.39	56.47 R	STO_DROP	1050.65									1047.20-15" RCP W	
			TOTALS	4	3			3	2	9			

(1) ADJUST FRAME AND RING CASTING (2506.522)
(2) ADJUST DRAINAGE STRUCTURE (2506.602)

INPLACE STORM PIPE AND CULVERTS (O)

STATION-LOCATION	PIPE SIZE	PIPE TYPE	REMOVE SEWER PIPE (STORM)	REMOVE BOX CULVERT	REMOVE CONCRETE HEADWALL	REMARKS
10+79.4-C.L.	49" SPAN	CMP				
15+44.4-C.L.	24"	CMP	40.9		0.5	
15+49.4-C.L.	24"	CMP	40.8		0.5	
20+30.1-C.L.	51" SPAN	RCP				
20+37.6-C.L.	51" SPAN	RCP				
20+61.0-C.L.	36"	CMP	65.9			
20+96.7-21.8' RT	18"	CMP	64.9			
22+42.2-20.8' RT	18"	CMP	18.6			
23+63.4-21.8' RT	18"	CMP	27.2			
24+58.9-21.2' RT	18"	CMP	18.3			
25+26.8-21.8' RT	18"	CMP	20.3			
26+16.5-22.5' RT	18"	CMP	22.8			
35+25.4-C.L.	24"	RCP	60.0			
39+54.3-45.2' RT	18"	RCP	47.7			
39+86.4-39.4' RT	18"	RCP	30.6			
43+95.7-37.3' LT	15"	CMP				
45+97.1-44.1' LT	15"	CMP				
46+86.9-C.L.	46" SPAN	CMP	65.2			
46+97.3-C.L.	36"	CMP	52.6			
48+61.9-25.2' RT	18"	CMP	20.4			
51+35.6-72.5' RT	18"	CMP				
51+38.8-31.0' LT	18"	CMP				
51+50.1-34.0' RT	24"	RCP	41.3			
54+31.2-26.8' RT	18"	CMP	22.5			
55+41.4-25.6' RT	15"	CMP	23.0			
56+39.7-25.1' RT	15"	CMP	42.9			
58+71.9-16.2' RT	15"	CMP	28.3			
61+22.7-20.4' RT	12"	CMP	19.9			
61+74.4-C.L.	4'X8'	CONC.		30.6	2.0	
62+09.2-67.2' RT	30"	RCP				
62+12.9-26.3' LT	15"	CMP				
62+89.2-24.2' LT	18"	CMP				
67+17.9-C.L.	30"	RCP	62.9			
74+50.0-C.L.	18"	CMP	43.9			
		SUBTOTAL	880.9	30.6	3.0	
30TH AVE SE						
101+00.7-24.1' LT	18"	CMP				
101+77.3-24.6' LT	15"	CMP				
102+26.7-23.5' LT	15"	CMP				
103+13.0-19.9' RT	18"	CMP	22.5			
104+03.5-24.0' LT	15"	CMP				
104+84.5-23.4' RT	24"	PVC	78.8			
109+68.1-52.0' RT	36"	RCP				
110+36.9-C.L.	169" SPAN	RCP				
110+55.9-C.L.	169" SPAN	RCP				
110+74.9-C.L.	169" SPAN	RCP				
112+40.4-32.4' LT	15"	CMP				
113+76.2-25.0' LT	15"	CMP				
115+47.9-26.7' LT	15"	CMP				
120+07.3-30.9' LT	18"	CMP	54.8			
122+23.0-C.L.	24"	RCP	68.2			
124+50.3-33.0' RT	18"	CMP	77.1			
125+20.3-C.L.	24"	CMP	88.9			
FAIRVIEW CT SE						
2+60.1-C.L.	30"	RCP	46.8			
		SUBTOTAL	437.1			
		TOTALS	1318	31	3	

Revision comment: ADDENDUM #1
Revised: 08/23/11

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: 07/27/11 Reg. No. 24667

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INPLACE WATERMAIN FITTINGS - PINEWOOD ROAD (Q)

STATION-LOCATION		GATE VALVE	HYD	CURB BOX	CURB STOP	WATER MH	ADJ. G.V. & BOX	RELOCATE HYDRANT	ADJUST HYDRANT	BREAK OFF EL.
12+14.61	13.89 L	X					1			
14+06.86	31.26 R		X							
14+09.88	30.68 R	X					1			
14+20.11	13.00 L	X					1			
16+68.34	20.39 R		X							
16+68.36	17.67 R	X					1			
17+06.43	30.41 L	X					1			
17+07.26	40.97 L	X								
18+31.65	7.95 L	X					1			
19+49.88	30.48 L		X							
19+50.10	23.09 L	X								
19+57.13	11.36 L	X					1			
23+28.90	20.76 L	X								
23+75.75	14.75 L	X					1			
23+28.90	27.01 L		X	X						
27+32.35	22.45 L				X					
27+43.79	29.82 L		X							
27+46.17	27.99 L	X								
27+53.93	18.97 L	X					1			
30+43.22	8.61 L	X					1			
30+46.13	12.49 L	X					1			
30+52.46	8.19 L	X					1			
30+49.52	4.22 L	X		X			1			
30+67.95	46.70 R		X							
35+03.64	9.67 L	X					1			
35+00.79	5.66 L	X					1			
34+95.37	22.90 L	X		X			1			
34+95.37	25.80 L		X	X				1		1022.1
39+39.14	6.18 L	X					1			
39+42.40	9.00 L	X					1			
39+22.81	23.19 L	X					1			
39+22.83	26.46 L		X	X				1		1026.3
43+03.25	27.88 L		X					1		1025.4
43+03.26	24.88 L	X					1			
43+99.95	30.05 L				X					
45+91.08	33.41 L				X					
45+89.87	33.37 L				X					
47+05.09	29.60 L	X					1			
47+05.21	32.60 L		X					1		1025.0
51+37.77	7.30 L	X					1			
51+73.91	25.10 L		X	X					1	1032.0
51+93.88	11.60 L	X					1			
56+05.68	25.63 L	X					1			
56+05.68	28.63 L		X						1	1035.9
56+48.03	10.89 L	X					1			
56+50.58	14.49 L	X					1			
60+04.39	26.04 L		X						1	1044.0
60+04.40	23.04 L	X					1			
64+24.86	21.64 L	X					1			
64+27.83	8.97 L	X					1			
64+29.20	24.98 L		X						1	1049.7
66+58.89	12.69 L	X					1			
67+29.20	21.98 L	X					1			
67+29.20	24.98 L		X						1	1046.0
69+24.19	19.78 R	X					1			
70+74.30	21.61 L	X					1			
70+74.30	24.61 L		X						1	1048.4
70+80.84	10.11 L	X					1			
71+11.06	40.58 L	X					1			
74+77.30	16.12 L	X					1			
74+79.25	34.63 L	X					1			
74+85.39	11.74 R	X					1			
74+93.02	20.23 R	X					1			
75+08.61	19.27 R	X					1			
75+08.92	17.24 R	X					1			
75+16.52	16.74 R					X				
75+44.10	27.33 L		X						1	1042.2
75+21.67	18.48 R	X					1			
75+21.49	16.86 R	X					1			
75+31.99	12.33 L	X					1			
75+35.30	8.58 L	X					1			
75+45.95	11.31 L	X					1			
							41	4	7	SUB-TOTAL

INPLACE WATERMAIN FITTINGS - 30TH AVE SE (Q)

STATION-LOCATION		GATE VALVE	HYD	CURB BOX	WATER MH	ADJ. G.V. & BOX	RELOCATE HYDRANT	ADJUST HYDRANT	BREAK OFF EL.
103+90.78	25.41 R			X					
104+65.54	28.75 L		X						
105+11.43	25.93 R			X					
109+68.08	29.59 L		X						
112+15.03	30.53 L		X						
116+39.72	29.76 L		X						
116+83.78	30.22 L			X					
123+29.17	19.91 R		X						
100+60.20	16.82 L	X				1			
109+65.41	23.28 L	X							
109+65.41	20.10 L	X				1			
109+68.02	26.60 L	X							
111+34.50	20.99 L	X				1			
112+15.02	27.70 L	X							
112+19.66	23.79 L	X							
116+39.68	27.21 L	X							
119+97.33	23.25 L	X				1			
119+99.39	21.45 L	X				1			
120+58.98	34.69 L	X				1			
120+61.83	29.02 L	X				1			
120+63.22	43.73 L	X				1			
122+59.29	1.32 R	X				1			
122+59.91	0.50 L	X				1			
122+64.10	6.40 R				X				
122+71.93	7.94 R	X				1			
122+72.83	6.16 R	X				1			
123+28.52	22.85 R	X				1			
123+29.17	19.91 R		X				1		1027.9
						13	1		SUB-TOTAL
						64	5	7	TOTALS

INPLACE SANITARY SEWER STRUCTURES (P)

STATION-LOCATION		STRUCT TYPE	INPLACE CASTING EL.	ADJ MH	RECONST. M.H.	NEW CASTING EL.	M.H. WATERPROOFING INTERIOR (1)	INL EL	INL EL	INV EL	OUTL EL	REMARKS
PINEWOOD ROAD S.E.												
10+62.44	29.98 L	1	1018.70							1004.04-12"-E		
12+05.74	5.48 L	1-A	1016.18		1	1017.49	1	1007.68-8" PVC S		1003.74-12" VCP E&W		
14+31.84	5.23 L	1-A	1016.75	1		1016.37	1	1006.65-8" VCP S		1003.28-12" VCP E&W		
16+38.63	5.12 L	1-A	1016.17	1		1016.35	1	1006.01-6" DIP S		1002.90-12" VCP E&W		
19+22.01	0.84 L	1	1015.97	1		1015.77	1	1002.30-12" VCP W	1002.87-12" VCP E		1001.98-15" RCP N	
23+69.54	1.36 L	2	1017.98	1		1018.01	1	1004.55-8" N		1004.47-10" E&W		
27+53.70	1.17 R	2	1019.60	1		1019.39	1			1005.63-10" E&W		
30+30.46	21.01 L	3	1019.49							1006.74-8" N&S		
30+38.60	0.93 R	2	1019.86	1		1019.94	1	1006.59-8" S		1006.51-10" E&W		
30+39.09	45.91 R	3	1019.41					1007.27-8" PVC S		1007.19-8" N		
32+54.62	2.76 L	2	1020.77	1		1020.36	1	1007.27-10" W		1007.19-10" E		
34+89.82	0.33 L	2	1022.03	1		1021.71	1	1008.01-8" S		1007.93-10" E&W		
39+27.95	0.48 R	2	1027.20		1	1026.00	1	1011.6-10" W		1011.52-10" E		
43+53.95	0.61 L	2	1025.19	1		1024.76	1	1012.87-10" W		1012.79-10" E		
47+54.45	3.07 L	2	1027.29	1		1027.54	1	1014.07-10" W		1013.99-10" E		
51+31.83	0.64 L	2	1033.02		1	1031.96	1	1019.43-10" W		1019.35-10" E		
51+49.20	42.10 R	3	1033.90	1		1033.20	1	1020.46-W		1020.38-8" PVC N&S		
55+03.56	3.37 L	2	1036.91	1		1036.22	1	1023.24-10" W		1023.16-10" E		
56+34.91	4.11 L	2	1038.73	1		1037.98	1	1024.63-10" W		1024.55-10" E		
56+40.68	42.41 R	3	1040.76		1	1039.80	1	1025.63		1025.55-8" N&S		
59+54.22	5.45 L	2	1044.53		1	1043.68	1	1027.9-10" W		1027.82-10" E		
61+99.54	2.27 R	2	1048.10		1	1047.21	1	1028.68-10" W		1028.59-10" E		
66+36.83	210.22 L	2	1037.76					1031.02-8" E		1030.94-8" S		
66+73.36	0.77 R	2	1047.75	1		1047.85	1	1030.08-W		1030.00-10" E		
69+04.50	0.32 R		1048.52	1		1048.39	1	1032.47-10" W		1032.39-10" E		
69+08.70	33.30 R	2	1048.50	1		1048.29	1	1033.32-8" PVC-S		1033.19-8" N&S		
71+14.21	0.34 R	2	1050.47	1		1049.85	1	1036.75-10" W		1036.67-10" E		
75+03.99	4.98 L		1045.12	1		1044.64	1			1037.93-10" E&W		
75+16.52	16.74 R		1044.62	1		1044.29	1					WATER M.H.
				19	6	SUB-TOTAL	25					
30TH AVE S.E.												
103+27.28	2.88 L	3	1033.30	1		1033.38	1				1023.85-8" N	
107+21.89	2.63 L	3A	1028.75	1		1028.89	1	1002.25-8" PVC DROP S		1014.98-8" PVC N		
110+16.43	61.78 R	3	1027.19					1013.79-8" PVC S		1013.71-8" PVC N		
111+03.84	60.50 R	3	1027.09					1013.39-8" PVC S		1013.31-8" PVC N		
113+22.14	0.59 L		1027.91	1		1028.05	1	1012.37-8" PVC S		1011.29-21" PVC N		
116+80.33	0.23 L	3	1026.33	1		1026.47	1			1010.93-21" N&S		
120+10.50	7.12 L		1024.83	1		1024.86	1			1010.60-21" N&S		
122+64.10	6.40 R		1027.45	1		1027.11	1					WATER M.H.
122+69.20	20.10 R		1027.17	1		1027.03	1			1015.06-8" E&W		
				7		SUB-TOTAL	7					
				26	6	TOTAL	32					

Revision comment:

Revision: —

Creation Date: —

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: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
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TABULATIONS

Title:

Designer: RLW

Checker: RJK

S.P. No. 159-166-001

S.P. No. 159-167-001 J7257

Project No. M7-18

Sheet 15 of 173 Sheets

CONSTRUCT STORM SEWER STRUCTURES (R)

NO.	STATION-LOCATION	S.A. STATIONING	TYPE SPECIAL 1 (1)	TYPE SPECIAL 4 48" (2)	TYPE SPECIAL 5 60" (3)	TYPE SPECIAL 7 84" (4)	TYPE SPECIAL 8 96" (5)	TYPE SPECIAL 9 108" (6)	RECONST. STRUCT. (7)	RCP APRON 12'	15"	18"	24"	30"	42"	48"	60"	INSTALL APRON	CONNECT TO INPL STRUCTURE	CONNECT TO INPL STORM PIPE	DEPTH	CAST ASSEM	CASTING EL.	T.C. EL	C-INL EL	C-INL EL	C-INL EL	C-OUTL EL	C-INV EL	REMARKS
S-1	10+77.35-67.86' RT																	1											1013.24	
S-2	10+77.8-58.8' RT																			1									1013.15	
S-3	10+81.2-56.0' LT																			1									1012.02	
S-4	10+82.21-89.63' LT																	1											1011.69	
S-5	11+76.38-65.67' LT										1																		1011.42	
S-6	11+76.38-28.67' LT		1																		4.76	B	1016.92	1017.57			1012.26-S	1012.16 N		
S-7	11+76.38-16.67' RT		1																		4.00	B	1017.16	1017.81				1013.16 N		
S-8	13+84.93-28.67' LT		1																		4.00	B	1015.51	1016.16			1011.61-S	1011.51 E		
S-9	13+89.14-56.28' LT													1															1010.83	
S-10	13-94.12-169.67' RT		1																		4.00	B	1016.06	1016.71				1012.06 N		
S-11	14+00.25-31.64' LT				1																	1					1011.43-W		1011.06	
S-12	15+34.98-18.90' LT		1																		3.08	B	1015.34	1015.99				1012.26 SE		
S-13	15+35.00-16.67' RT		1																		3.00	B	1015.38	1016.03				1012.38 W		
S-14	15+44.92-48.75' LT										1																		1011.98	
S-15	15+44.96-18.23' LT		1																		3.24	B	1015.40	1016.05			1012.16-W	1012.16 N	1012.16	
S-16	15+45.00-16.67' RT		1																		3.10	B	1015.43	1016.08		1012.33-W	1012.33-S	1012.33 N		
S-17	15+45.2-21.3' RT			1																	3.88	1	1016.23				1012.58-S	1012.36 N		
S-18	15+49.79-48.44' LT										1																		1011.77	
S-19	15+50.2-21.0' LT				1																4.14	1	1016.26			1012.16-S	1012.16-S	1012.12 N		
S-19A	16+26.04-39.86' RT													1													1012.55-NW			
S-20	18+82.74-20.64' LT		1																		2.37		1015.22	1015.87				1012.85 E		
S-21	18+82.74-16.67' RT		1																		2.64		1015.30	1015.95				1012.66 E		
S-22	18+92.74-21.05' LT		1																		2.36	B	1015.16	1015.81			1012.80-W	1012.80 S		
S-23	18+92.74-16.67' RT		1																		2.64	B	1015.25	1015.90		1012.61-W	1012.61-N	1012.61 E		
S-24	20+31.66-22.27' LT		1																		4.39	B	1015.95	1016.60					1011.56	CONST OVER 51" SPAN RCP
S-25	20+32.91-11.00' RT					1																					1011.91-W	1011.91 N	1011.91	J.B. SLAB TOP EL. 1015.56
S-26	20+42.55-18.42' RT					1																					1012.06-E	1011.97 N	1011.97	J.B. SLAB TOP EL. 1015.62
S-27	21+30.00-16.67' RT		1																		4.00	B	1016.50	1017.15			1012.5-S	1012.50 W		
S-28	21+30.00-31.46' RT									1																			1016.40	
S-29	22+55.07-21.86' LT		1																		3.17	B	1016.80	1017.45				1013.63 S		
S-30	22+55.07-16.67' RT		1																		3.36	B	1016.80	1017.45		1013.44-S	1013.44-N	1013.44 E		
S-31	22+55.07-31.00' RT									1																			1016.49	
S-32	23+52.4-50.1' LT																		1		4.90		1017.52		1012.65-E	1012.86-W	1012.65-S	1012.62 N		
S-33	23+52.42-11.00' RT			1																	4.79	1	1017.75			1012.96-W	1012.96-E	1012.98 N		
S-34	23+77.66-16.92' RT			1																	4.40	B	1017.49	1018.14		1013.09-S	1013.09-E	1013.09 W		
S-35	23+77.66-31.00' RT									1																			1017.49	
S-36	24+71.85-16.92' RT			1																	4.31	B	1017.87	1018.52		1013.66-S	1013.66-W	1013.56 W		
S-37	24+71.85-31.00' RT									1																			1017.43	
S-38	25+41.02-16.92' RT			1																	4.00	B	1018.33	1018.98		1014.43-S	1014.43-E	1014.33 W		
S-39	25+41.02-31.00' RT									1																			1017.59	
S-40	26+33.59-16.92' RT			1																	4.00	B	1019.09	1019.74			1015.19-S	1015.09 W		
S-41	26+33.59-31.00' RT									1																			1017.97	
S-42	27+86.5-20.7' LT		1																		2.29		1018.37	1019.08			1016.08-S	1016.08 N		
S-43	27+86.5-16.67' RT		1																		2.68	B	1018.95	1019.60			1016.27-S	1016.27 N		
S-44	27+86.50-30.25' RT									1																			1018.25	
S-45	30+29.56-11.00' RT				1																4.23	1	1019.70			1015.57-W	1015.57-S	1015.47 N	1015.47	
S-45A	30+24.95-43.28 RT		1																		1.79	B	1018.58					1016.79 NE		
S-46	30+70.76-20.39' LT		1																		3.11	B	1019.16	1019.81				1018.05 E		
S-47	30+80.19-16.67' RT		1																		3.42	B	1019.24	1019.89		1015.82-E	1015.82-N	1015.82 W		
S-47A	30+62.09-41.75 RT																				1.97	B	1018.76					1016.79 N		
S-48	30+80.64-20.26' LT		1																		3.19	B	1019.19	1019.84			1016.00-W	1016.00 S		
S-49	30+90.30-16.67' RT		1																		3.42	B	1019.29	1019.94				1015.87 W		
S-50	32+12.6-22.3' RT																			1									1014.90	
S-51	32+15.53-32.17' LT																	1									1017.74-S		1017.74	
S-52	33+37.85-16.97' LT		1																		4.00	B	1020.28	1020.93				1016.28 S		
S-53	33+37.85-17.14' RT								1										1		4.64	B	1020.28	1020.93		1015.94-N	1015.74-E	1015.74 W	1015.74	REPLACE CASTING
S-54	34+81.2-20.9' RT																		1		5.02		1021.79			1016.97-E	1016.97-S	1016.77 W		
S-55	35+01.75-30.68' RT		1																		4.00	B	1021.52	1022.17				1017.52 E		
S-56	35+13.90-16.92' RT			1																	4.72	1	1021.85			1017.23-E	1017.13-S	1017.13 N		
S-57	35+16.73-25.64' RT			1																	4.74	1	1022.03			1017.36-W	1017.36-E	1017.29 N		
S-58	35+39.68-41.01' RT			1																	4.00	B	1022.13	1022.78			1018.13-E	1018.13 W		
S-59	35+48.63-45.09' RT												1																1020.70	
S-60	35+55.75-16.67' LT		1																		4.00	B	1021.77	1022.42				1017.77 S		
S-61	35+55.75-16.92' RT			1																	4.43	B	1021.77	1022.42		1017.43-N	1017.34-E	1017.34 W		
S-62	38+05.00-16.67' LT		1																		4.00	B	1024.22	1024.87				1020.22 S		
S-63	38+05.00-16.92' RT			1																	5.63	B	1024.22	1024.87		1018.99-N	1018.59-E	1018.59 W		
S-64	39+20.62-16.92' RT			1																	5.80	B	1025.36	1026.01			1019.56-E	1019.56 W		
S-65	39+28.30-43.45' RT			1																	4.00	6	1024.59					1020.59 E		
S-66	39+39.57-30.64' RT			1																	5.40	B	1025.72	1026.37		1020.42-E	1020.42-W	1020.32 NW		
S-67	39+78.52-43.77' RT		1																		4.00	B	1026.48	1027.13			1020.58-S	1022.48 W		
S-68	39+82.78-53.02' RT		1																		4.00	B	1026.80	1027.45				1022.80 NW		
S-69	43+82.29-48.90' RT					1															5.59	1	1028.00				1022.51-W	1022.41 E		
S-70	44+35.00-16.67' LT		1																		4.00	B	1023.83	1024.48				1019.83 E		
S-71	44+35.00-16.67' RT		1																		4.00	B	1023.83	1024.48				1019.83 E		
S-72	44+45.00-16.67' LT		1																		4.05	B	1023.83	1024.48			1019.78-W	1019.78 S		
S-73	44+45.00-16.67' RT		1																		4.22	B	1023.83	1024.48		1019.61-W	1019.61-N	1019.61 S		
S-74	44+45.00-33.00' RT					1															5.46	2	1024.99			1019.63-N	1019.53-E	1019.53 W		
S-75	46+17.43-16.67' LT		1																		4.00	B	1025.36	1026.01				1021.36 S		
S-76	46+17.43-16.67' RT		1																		4.43	B	1025.36	1026.01			1021.03-N	1020.93 S		
S-77	46+17.43-33.00' RT					1															7.85	1	1026.52			1020.77-N	1018.67-W	1018.67 E		
S-78	46+90.00-40.06' LT															1													1017.93	
S-79	46+90.00-33.00' RT							1													9.02	1	1027.32				1018.3-W	1018.30 N		
S-80	47+00.00-39.93' LT														1															
S-81	47+00.00-18.42' LT					1															8.10	B	1026.27	1026.92			1018.27-S	1018.17 N		
S-82	47+10.00-18.42' RT					1															7.69	B	1026.38	1027.03		1019.69-S	1018.79-E	1018.69 N		
S-83	47+10.00-37.00' RT											1																		
S-84	48+76.99-16.67' LT		1																		4.00	B	1028.24	1028.89				1024.24 S		
S-85	48+76.99-17.42' RT				1																5.41	B	1028.24	1028.89	1023.90-S	1023.90-N	1022.93-E	1022.83 W		
S-86	48+76.99-32.96' RT											1																		
S-87	51+24.31-45.05' RT											1																	1031.60	
S-88	51+33.66-17.42' RT					1															6.63	1	1032.13			1025.60-S	1025.60-E	1025.50 W		
S-89	51+33.66-33.32' RT			1																	4.12	B	1032.12	1032.77		1028.10-E	1028.10-W	1028.00 N		
S-90	51+66.54-38.12' RT		1																		4.00	B	1032.43	1033.08			1028.53-W	1028.43 E		

P:\PROJECTS\J-PROJ\J7257\Design\Dwgs\7257C15.dwg, Layout1, 8/23/2011 9:06:04 AM, 1:2

Revision comment: ADDENDUM #1

Revised: 08/23/11

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: 07/27/11 Reg. No. 24597

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
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Title: TABULATIONS

Designer: RLW

Checker: RJK

S.P. No. 159-166-001

S.P. No. 159-167-001 J 7257

Project No. M7-18

Sheet 16 of 173 Sheets

CONSTRUCT STORM SEWER STRUCTURES (R)

NO.	STATION-LOCATION	S.A. STATIONING	TYPE SPECIAL 1 (1)	TYPE SPECIAL 4 48" (2)	TYPE SPECIAL 5 60" (3)	TYPE SPECIAL 7 84" (4)	TYPE SPECIAL 8 96" (5)	TYPE SPECIAL 9 108" (6)	RECONST. STRUCT. (7)	RCP APRON 12'	15"	18"	24"	30"	42"	48"	60"	INSTALL APRON	CONNECT TO INPL STRUTURE	CONNECT TO INPL STORM PIPE	DEPTH	CAST ASSEM	CASTING EL.	T.C. EL	C-INL EL	C-INL EL	C-INL EL	C-OUTL EL	C-INV EL	REMARKS
S-91	51+73.62-41.83' RT											1									4.00	B	1031.45	1032.10				1027.45 S	1031.50	
S-92	51+84.50-16.67' LT		1																		5.34	B	1031.45	1032.10	1027.11-N	1027.11-S	1026.21-E	1026.11 W		
S-93	51+84.50-17.42' RT				1																								1031.30	
S-94	51+84.50-33.00' RT									1											4.00	B	1034.91	1035.56				1030.91 S		
S-95	54+47.51-16.67' LT		1																		5.34	B	1034.91	1035.56	1030.57-N	1030.57-S	1029.67-E	1029.57 W		
S-96	54+47.51-17.42' RT				1																								1035.40	
S-97	54+47.51-33.00' RT										1										4.00	6	1038.70					1034.70 NE		
S-98	56+15.68-44.24' RT			1																	4.32	B	1038.82	1039.47			1034.60-SW	1034.50 E		
S-99	56+19.39-34.64' RT				1																5.95	1	1038.42			1032.57-S	1032.57-E	1032.47 E		
S-100	56+25.80-17.42' RT					1															4.68	1	1039.02			1034.44-E	1034.44-W	1034.34 N		
S-101	56+25.80-34.64' RT				1																4.00	B	1038.82	1039.47			1034.92-E	1034.82 W		
S-102	56+51.59-36.20' RT		1																		4.00	6	1040.35					1036.35 W		
S-103	56+58.48-43.45' RT			1																	4.00	B	1038.11	1038.76				1034.11 S		
S-104	56+70.22-16.67' LT		1																		4.74	B	1038.11	1038.76		1033.77-N	1033.47-E	1033.37 W		
S-105	56+70.22-16.92' RT			1																	4.00	B	1043.41	1044.06				1039.41 S		
S-106	59+75.00-16.67' LT		1																		4.45	B	1043.41	1044.06			1039.07-N	1038.96 W		
S-107	59+75.00-16.67' RT		1																		4.00	B	1047.42	1048.07				1043.42 S		
S-108	62+50.00-16.67' LT		1																		4.27	B	1047.42	1048.07		1043.25-N	1043.25-S	1043.15 E		
S-109	62+50.00-16.92' RT			1																									1047.00	
S-110	62+50.00-33.00' RT									1																			1044.97	
S-111	62+61.60-86.46' RT															1					8.23	1	1049.23			1041.77-W	1041.00-SW	1041.00 E		
S-112	63+25.00-20.00' RT						1														4.00	B	1047.65	1048.30				1043.65 S		
S-113	66+30.57-16.67' LT		1																		9.94	1	1047.88			1040.94	1037.94	1037.94 N		
S-114	66+30.57-17.50' RT					1																								
		FAIRVIEW CT SE																			7.78	1	1044.26				1036.48-S	1036.48 N		
S-115	66+79.04-42.58' LT	0+88.18				1															10.03	1	1047.42		1039.89-S	1039.39-E	1037.39-W	1037.39 N		
S-116	66+85.00-17.50' RT	0+27.81						1													4.00	B	1046.95	1047.60			1042.95-S	1042.95 N		
S-117	66+85.00-28.67' RT	0+16.64	1																										1045.90	
S-118	66+85.00-45.31' RT	0+00.00								1																			1034.00	
S-119		2+32.32-11.73' RT								1											10.29	1	1037.30			1032.11-E	1029.97-S	1027.01 N		
S-120		2+36.88					1														8.35	1	1034.64				1026.29-S	1026.29 N		
S-121		2+85.36					1																						1026.00	INCLUDES (D.P. 5010A)
S-122		3+43.66															1													
S-123	67+27.48-17.5' RT																		1		6.06		1047.09			1041.95-E	1041.95-E	1041.03 W		
S-124	67+27.48-28.67' RT		1																		4.00	B	1046.62	1047.27			1042.72-S	1042.62 N		
S-125	67+27.48-45.31' RT											1																	1046.30	
S-126	67+67.00-16.67' LT		1																		4.10	B	1046.74	1047.39			1042.65-E	1042.64 S		
S-127	67+67.00-17.44' RT			1																	4.68	1	1046.97		1042.30-N	1042.30-S	1042.29-E	1042.29 W		
S-128	67+67.00-28.67' RT		1																		4.09	B	1046.50	1047.15			1042.41-E	1042.41 N		
S-129	67+77.00-16.67' LT		1																		4.00	B	1046.75	1047.40				1042.75 W		
S-130	67+77.00-28.67' RT		1																		4.00	B	1046.51	1047.16				1042.51 W		
S-131	68+62.89-17.27' RT																		1		4.49		1047.60		1043.24-E	1043.24-S	1043.24-SE	1043.11 W		
S-132	68+86.8-26.4' RT																				3.89		1047.44	1048.09			1043.65-SE	1043.55 NW		
S-133	69+58.69-16.67' RT		1																		4.00	B	1048.40	1049.05				1044.40 W		
S-134	74+47.46-16.67' LT		1																		4.27	B	1044.82	1045.47			1040.65-S	1040.55 NE		
S-135	74+47.46-16.67' RT		1																		4.00	B	1044.82	1045.47				1040.82 N		
S-136	75+19.15-41.74' LT											1																	1040.16	
		SUB-TOTAL	54	20	8	11	3	2	1	11	4	6	1	2	1	2	1	3	5	3										
	30TH AVE SE																												1031.30	
S-137	102+97.35-27.64' RT											1																	1030.83	
S-138	103+24.99-27.07' RT											1																	1027.61	
S-139	104+25.00-28.78' RT												1																1026.62	
S-140	105+24.84-28.51' RT												1																1021.73	
S-141	119+83.36-29.86' LT	0-25.84-10.80' LT										1																	1020.40	
S-142	120+27.06-45.74' LT	0+27.83-C.L.										1									4.00	B	1024.62	1025.27				1020.62 N		
S-143	120+42.14-16.67' RT		1																		4.00	B	1024.63	1025.28				1020.63 N		
S-144	120+43.73-16.67' LT		1																										1020.22	
S-145	120+53.00-53.54' LT	0+59.90-7.10' RT									1										4.32	B	1024.72	1025.37		1020.40-S	1020.40-E	1020.40 W		
S-146	120+53.00-16.67' LT		1																		4.15	B	1024.72	1025.37			1020.57-S	1020.57 W		
S-147	120+53.00-16.67' RT		1																										1021.00	
S148	122+24.00-51.49' LT	5+52.06-C.L.											1								5.94	B	1027.29	1027.94			1021.85-S	1021.35 N		
S-149	122+24.00-16.92' LT	5+17.78-4.56' RT		1																	4.00	B	1027.29	1027.94			1023.39-S	1023.29 N		
S-150	122+24.00-16.92' RT	4+84.23-9.03' RT		1																									1023.63	
S-151	122+24.00-41.00' RT	4+60.37-12.20' RT											1																1025.86	
S-152	124+24.76-49.71' RT											1																	1025.56	
S-153	124+68.53-49.80' RT											1																	1024.13	
S-154	124+95.54-63.69' LT												1																1024.66	
S-155	125+29.06-64.95' RT												1																	
		SUB-TOTAL	4	2							1	6	6																	
		TOTALS	58	22	8	11	3	2	1	11	5	12	7	2	1	2	1	3	5	3										

NOTES:
(1) SEE CITY OF ROCHESTER DETAIL PLATE 1-01
(2) SEE CITY OF ROCHESTER DETAIL PLATE 1-04 (48" DIA.)
(3) SEE CITY OF ROCHESTER DETAIL PLATE 1-04 (60" DIA.)
(4) SEE CITY OF ROCHESTER DETAIL PLATE 1-04 (84" DIA.)
(5) SEE CITY OF ROCHESTER DETAIL PLATE 1-04 (96" DIA.)
(6) SEE CITY OF ROCHESTER DETAIL PLATE 1-04 (108" DIA.)
(7) INCLUDE NEW CASTING

Revision comment: ADDENDUM #1
Revised: 08/23/11

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: 07/27/11, Reg. No. 24697

City of Rochester, Minnesota
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Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 17 of 173 Sheets

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CONSTRUCT STORM SEWER PIPE (S)

FROM	TO	12" RCP C.C. LENGTH (FT)	15" RCP C.C. LENGTH (FT)	18" RCP C.C. LENGTH (FT)	24" RCP C.C. LENGTH (FT)	30" RCP C.C. LENGTH (FT)	36" RCP C.C. LENGTH (FT)	42" RCP C.C. LENGTH (FT)	48" RCP C.C. LENGTH (FT)	49" SPAN RCP C.C. LENGTH (FT)	59" SPAN RCP C.C. LENGTH (FT)	60" RCP C.C. LENGTH (FT)	SLOPE (%) C. TO C.	REMARKS
S-1	S-2									9.04			0.98	
S-3	S-4									33.63			0.98	
S-5	S-6		37.00										2.00	
S-6	S-7	45.34											1.99	
S-8	S-11		15.71										0.50	
S-9	S-11					27.03							1.60	
S-10	S-8	46.28											0.97	
S-12	S-15	10.00											1.00	
S-13	S-16	10.00											0.50	
S-14	S-15		35.51										0.50	
S-15	S-16		34.90										0.50	
S-16	S-17		4.59										0.50	
S-18	S-19		69.46										0.50	
S-19	S-19A					72.17							0.50	
S-20	S-22	10.00											0.50	
S-21	S-23	10.00											0.50	
S-22	S-23		37.72										0.50	
S-23	S-25		140.37										0.50	
S-26	S-27		87.47										0.50	
S-27	S-28	14.79											26.37	
S-29	S-30	38.53											0.50	
S-30	S-33		97.52										0.49	
S-31	S-30	14.33											19.12	
S-32	S-33		61.13										0.50	
S-33	S-34		25.92										0.50	
S-34	S-36	94.19											0.50	
S-35	S-34	14.33											28.33	
S-36	S-38	69.17											0.97	
S-37	S-36	14.33											23.80	
S-38	S-40	92.57											0.71	
S-39	S-38	14.33											21.91	
S-40	S-41	14.33											19.40	
S-42	S-43	37.37											0.50	
S-43	S-44	13.58											14.58	
S-45	S-47		50.51										0.50	
S-46	S-48	10.00											0.50	
S-47	S-49	10.00											0.50	
S-48	S-47		36.93										0.50	
S-50	S-51					10.29							2.76	
S-52	S-53	34.11											1.00	
S-54	S-56				32.55								0.50	
S-55	S-57	15.67											1.00	
S-56	S-61			41.85									0.50	
S-57	S-56				9.17								1.00	
S-58	S-57				27.63								2.79	
S-59	S-58				9.83								2.57	
S-60	S-61	33.59											1.00	
S-61	S-63			249.25									0.50	
S-62	S-63	33.59											3.66	
S-63	S-64		115.62										0.84	
S-64	S-66		23.40										3.25	
S-65	S-66	17.06											1.00	
S-66	S-67	41.10											5.26	
S-67	S-68	10.19											2.20	
S-69	S-74							84.23					3.42	
S-70	S-72	10.00											0.50	
S-71	S-73	10.00											2.20	
S-72	S-73		33.34										0.50	
S-73	S-74			16.33									0.50	
S-74	S-77							172.52					0.50	
S-75	S-76	33.34											1.00	
S-76	S-77		16.33										1.00	
S-77	S-79								74.14				0.50	
S-78	S-79								73.06				0.50	
S-80	S-81							21.51					1.12	
S-81	S-82							38.17					1.10	
S-82	S-85						168.88						2.39	
S-83	S-82			18.58									17.81	
S-84	S-85	34.09											1.00	
S-85	S-88						256.79						1.00	
S-86	S-85			15.54									31.17	
S-87	S-89			15.00									23.33	
S-88	S-93					50.84							1.00	
S-89	S-88				15.90								12.58	
S-90	S-89			33.23									1.00	
S-91	S-90			8.00									37.13	
S-92	S-93	34.09											1.00	
S-93	S-96					263.02							1.28	
S-94	S-93	15.58											26.06	
S-95	S-96	34.09											1.00	
S-96	S100					178.49							1.57	
S-97	S-96		15.38										30.04	
S-98	S-99				10.00								1.00	
S-99	S-101				6.42								1.00	
S-100	S-105			44.42									1.80	
S-101	S-100				17.22								10.28	
S-102	S-101	26.84											1.66	
S-103	S-102	10.00											14.30	
S-104	S-105	33.59											1.00	
S-105	S-107		304.78										1.80	
S-106	S-107	33.34											1.00	

CONSTRUCT STORM SEWER PIPE (S)

FROM	TO	12" RCP C.C. LENGTH (FT)	15" RCP C.C. LENGTH (FT)	18" RCP C.C. LENGTH (FT)	24" RCP C.C. LENGTH (FT)	30" RCP C.C. LENGTH (FT)	36" RCP C.C. LENGTH (FT)	42" RCP C.C. LENGTH (FT)	48" RCP C.C. LENGTH (FT)	49" SPAN RCP C.C. LENGTH (FT)	59" SPAN RCP C.C. LENGTH (FT)	60" RCP C.C. LENGTH (FT)	SLOPE (%) C. TO C.	REMARKS
S-108	S-109	33.59											0.50	
S-109	S-112			75.47									0.50	
S-110	S-109	16.08											24.38	
S-111	S-112						92.52						4.29	
S-112	S-114								305.58				1.00	
S-113	S-114	34.17											7.93	
S-114	S-116								54.87				1.00	
S-115	S-116								60.37				1.50	
S-116	S-123				42.48								3.86	
S-117	S-116			11.17									27.39	
S-118	S-117	16.64											17.73	
S-119	S-120	12.58											15.00	
S-120	S-115								148.70				4.38	
S-121	S-120										48.36		1.49	
S-122	S-121											58.29	0.50	
S-123	S-124				11.17								6.00	
S-124	S-125			16.64									21.51	
S-126	S-127	34.11											1.00	
S-127	S-128	11.23											1.00	
S-128	S-130	10.00											1.00	
S-129	S-126	10.00											1.00	
S-131	S-133	95.80											1.21	
S-134	S-135		33.34										0.50	
S-136	S-134			78.55									0.50	
		1316.94	1276.93	624.03	182.37	601.84	518.19	316.43	716.72	42.67	48.36	58.29	SUB-TOTAL	
30TH AVENUE SE														
S-137	S-138			27.64									1.70	
S-139	S-140				100.00								0.99	
S-141	S-142			53.48									2.49	
S-143	S-147	10.00											0.50	
S-144	S-146	10.00											2.30	
S-145	S-146		36.87										0.50	
S-146	S-147		33.34										0.50	
S-148	S-149				34.58								1.00	
S-149	S-150				33.84								4.26	
S-150	S-151				24.07								1.00	
S-152	S-153				59.64								0.50	
S-154	S-155				132.00								0.40	
		20.00	70.21	81.12	384.13								SUB-TOTAL	
		1337	1348	706	567	602	519	317	717	43	49	59	TOTALS	

CONSTRUCT WATERMAIN PIPE (T)

FITTING NO.	STATION-LOCATION	S.A. STATIONING	LOWER 12" WATERMAIN	LOWER 8" WATERMAIN	REMARKS
W-1	46+67 TO 47+24		68		1
W-2	66+64 TO 67+00		24		
W-3		2+46 LT & RT		26	
			92	26	TOTALS

NOTES: LOWER WATERMAIN INCLUDES THE FITTINGS NEEDED AND 2 GATEVALVES
1. INCLUDES 2 GATEVALVES

Revision comment: ADDENDUM #1
Revised: 08/23/11

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: 07/27/11 Reg. No. 24687

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Title: TABULATIONS
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18 J7257
Sheet 18 of 173 Sheets

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SALVAGE SIGNS (U) TYPE C & D

LOCATION	LT	RT	QTY
PINEWOOD RD			
10+57		X	1
10+76	X		5
12+21		X	3
12+64		X	1
12+70	X		2
14+48		X	5
15+42		X	2
15+50	X		2
16+60		X	4
16+62		X	2
18+90	X		1
18+95		X	1
21+75		X	2
22+65	X		4
25+46		X	1
30+65		X	5
30+90		X	1
32+51		X	1
35+31		X	5
35+46		X	1
35+47	X		1
39+30		X	4
39+80		X	1
40+12	X		2
43+63	X		1
43+85		X	1
51+24	X		1
51+64		X	5
53+97		X	1
56+60		X	5
57+99		X	1
62+89		X	1
62+98		X	2
63+07	X		1
66+37	X		5
70+92	X		5
73+25	X		2
75+11		X	1
SUBTOTAL			89
30TH AVE			
100+79	X		5
107+00		X	1
114+79		X	1
115+82		X	1
117+28		X	1
119+83	X		5
120+37	X		1
123+24	X		1
124+34		X	1
124+61		X	5
125+26	X		4
125+33			2
SUBTOTAL			28
TOTAL			117

INSTALL SIGNS TYPE C & D

LOCATION	LT	RT	QTY
PINEWOOD RD			
16+60		X	1
22+65	X		1
TOTAL			2

STRIPING TABULATIONS (V)

STATION FROM	STATION TO	A 4" SOLID LINE WHITE	C 4" BROKEN LINE WHITE	E 4" BROKEN LINE YELLOW	F 4" DOUBLE SOLID LINE YELLOW	G 12" SOLID LINE WHITE	H LEFT TURN ARROW	I RIGHT TURN ARROW	K BICYCLE LANE SYMBOLS	L CROSSWALK BLOCKS
		LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EACH	EACH	EACH	SQ FT
PINEWOOD RD										
10+00.00	12+07.22	334			116	114	1	2	2	72
12+07.22	14+23.34	545	13		216			1	2	
14+23.34	23+61.26	1663	72	198	145				2	108
23+61.26	30+39.15	1257		169					2	
30+39.15	35+09.22	851		118					2	
35+09.22	39+47.25	810		110					2	
39+47.25	51+46.24	2327		300					2	
51+46.24	56+35.43	913		122					2	
56+35.43	66+65.74	1826	86	215	172				2	
66+65.74	68+91.92	508	4	16	164			2	3	
68+91.92	71+09.99	337		55					2	
71+09.99	75+05.11	710		99					2	
75+05.11	78+00.00	16		49						
	SUBTOTAL	12095	176	1450	813	114	1	5	25	180
30TH AVE SE										
100+00.00	120+08.67	3924		457	150				2	
120+08.67	124+46.65	705	72	7	412			1	3	
124+46.65	126+00.00	224			87	211	1	1	3	
	SUBTOTAL	4853	72	463	649	211	1	2	8	
	TOTALS	16948	248	1913	1462	325	2	7	33	180

1) Bicycle lane symbols consist of a bike and an arrow.

GENERAL NOTES:

1. EDGE LINES AND LANE LINES ARE TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC ROADS AND AT PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY A YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE RADIUS FOR THE INTERSECTION OR AT MARKED STOP LINES OR CROSSWALKS.
2. THE ROAD SURFACE SHALL BE CLEANED AT THE DIRECTION OF THE ENGINEER JUST PRIOR TO APPLICATION. PER THE CITY OF ROCHESTER STANDARDS AND DIRECTION THIS SHALL ALSO INCLUDE GROOVING CHANNELS FOR THE EPOXY. SE PAVEMENT MARKINGS SPECIAL PROVISIONS.
3. AN EPOXY RESIN LINE 4" WIDE AND 15 MILL THICKNESS (WET), REQUIRES AN APPLICATION RATE OF ONE (1) GALLON OF COMPONENTS FOR 320 FEET OF LINE. GLASS BEADS SHALL BE APPLIED AT A POUND PER GALLON RATE SUFFICIENT TO ACHIEVE AN ACCEPTABLE NO-TRACK SYSTEM.
4. SEE STANDARD SIGNS MANUAL FOR PUNCHING CODE AND DETAILED DRAWINGS OF TYPE "C" SIGN PANELS.
5. PER DIRECTION FROM THE CITY, EQUIVALENT ENGINEER APPROVED SIGN MONITORING POSTS MAY BE SUBSTITUTED FOR 3# U-CHANNEL SIGN POSTS.
6. LINEAR PAVEMENT MARKINGS ARE TO BE GROUND IN. SEE SPECIAL PROVISIONS.

FURNISH & INSTALL SIGN TYPE C (W)

PANEL DESIGNATION NUMBER	PANEL LEGEND	NOTES	QUANTITY PINEWOOD ROAD SE	QUANTITY 30TH AVE SE	PANEL SIZE (IN)	PANEL AREA (SQ FT)	TOTAL AREA (SQ FT) PINEWOOD ROAD SE	TOTAL AREA (SQ FT) 30TH AVE SE
CW-3	NEIGHBORHOOD WATCH		1		18x24	3.00	3.00	
D11-1	BIKE ROUTE		1		24x18	3.00	3.00	
M1-X4	COUNTY ROUTE MARKER	OLMSTED COUNTY 1	1		24x24	4.00	4.00	
M1-X4	COUNTY ROUTE MARKER	OLMSTED COUNTY 36		1	24x24	4.00		4.00
M2-1	JCT		1	1	21x15	2.19	2.19	2.19
M2-X1	BEGIN		1		30x15	3.13	3.13	
R1-1	STOP		10	4	30x30	6.25	62.50	25.00
R2-1	SPEED LIMIT	20 MPH	2		24x30	5.00	10.00	
R2-1	SPEED LIMIT	30MPH	6	2	24x30	5.00	30.00	10.00
R2-7a	END SCHOOL SPEED ZONE		1		24x30	5.00	5.00	
R3-17	BIKE LANE		21	4	30x24	5.00	105.00	20.00
R3-17b	ENDS		3		30x12	2.50	7.50	
R3-7	RIGHT LANE MUST TURN RIGHT		2		30x30	6.25	12.50	
R4-4	BEGIN RIGHT TURN LANE YIELD TO BIKES		2	1	36x30	7.50	15.00	7.50
R5-3	NO MOTOR VEHICLES		2		24x24	4.00	8.00	
R8-3a	NO PARKING		30	6	18x18	2.25	67.50	13.50
S1-1	SCHOOL CROSSING ADVANCE		1		30x30	6.25	6.25	
S2-1	SCHOOL CROSSING		2		30x30	6.25	12.50	
S3-1	SCHOOL BUS STOP AHEAD			2	30x30	3.00		6.00
S4-2	WHEN CHILDREN ARE PRESENT		2		24x10	1.66	3.32	
S4-3	SCHOOL		2		24x8	1.32	2.64	
W1-3	REVERSE TURN			1	30x30	6.25		6.25
W1-7	LARGE ARROW-DOUBLE HEAD		2		48x24	8.00	16.00	
W3-1a	STOP AHEAD			1	36x36	9.00		9.00
W11-2	PEDESTRIAN CROSSING		1		30X30	6.25	6.25	
W13-1	ADVISORY SPEED	20 MPH		1	24x24	4.00		4.00
W14-1	DEAD END			2	30X30	6.25		12.50
W16-7mp	DOWN ARROW	RIGHT	3		24x18	3.00	9.00	
X3-4	300 FEET		1		12x8	0.66	0.66	
X4-13	CYLINDAR STYLE DELINEATOR		1	1	8x12	0.66	0.66	0.66
X4-4	CLEARANCE MARKER	LEFT		2	12x36	3.00		6.00
X4-4	CLEARANCE MARKER	RIGHT		2	12x36	3.00		6.00
	TOTAL		99	31			396	133

FURNISH & INSTALL SIGN TYPE D (X)

PANEL LEGEND	NOTES	QUANTITY PINEWOOD ROAD SE	QUANTITY 30TH AVE SE	PANEL SIZE (IN)	PANEL AREA (SQ FT)	TOTAL AREA (SQ FT) PINEWOOD ROAD SE	TOTAL AREA (SQ FT) 30TH AVE SE
STREET SIGN - 9"x30"	GREEN	14	10	9x30	1.88	26.25	18.75
STREET SIGN - 9"x36"	GREEN		4	9x36	2.25		9.00
STREET SIGN - 9"x42"	GREEN	22	2	9x42	2.63	57.75	5.25
STREET SIGN - 9"x42"	BLUE-PRIVATE	2		9x42	2.63	5.25	
TOTAL		38	16			90	33

All traffic control devices shall conform to the most recent edition of the Minnesota Manual on Uniform Traffic Control Devices, including "Field Manual for Temporary Traffic Control Zone Layouts."

Revised: --
Creation Date: --
Revision comment:

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: 07/27/11 Reg. No. 24697

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Title: TABULATIONS
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 19 of 173 Sheets

CONSTRUCTION/SOIL NOTES

GRADING, BASE AND SURFACE

1 TOP OF THE GRADING SUBGRADE (GRADING GRADE) IS DEFINED AS THE BOTTOM OF THE CLASS 5 AGGREGATE BASE.

2 COMMON EMBANKMENT (SUITABLE GRADING) MATERIAL ON THIS PROJECT, WHETHER OBTAINED LOCALLY OR FROM BORROW, SHALL CONSIST OF ALL SOILS EXCEPT TOPSOIL, DEBRIS, PEAT, MUCK AND ORGANIC OR OTHER UNSTABLE MATERIAL.

3 UNSUITABLE MATERIALS ARE TOPSOILS, DEBRIS, PEAT, MUCK AND ORGANIC OR OTHER UNSTABLE SOILS.

4 GRANULAR EMBANKMENT MATERIAL IS DEFINED AS MATERIAL MEETING THE REQUIREMENTS OF MN/DOT SPEC. 3149.2B1. SELECT GRANULAR EMBANKMENT MATERIAL IS DEFINED AS MATERIAL MEETING THE REQUIREMENTS OF MN/DOT SPEC. 3149.2B2. SELECT GRANULAR EMBANKMENT MATERIAL MODIFIED IS DEFINED AS MATERIAL MEETING THE REQUIREMENTS OF MN/DOT SPEC. 3149.2B, MODIFIED TO 50 PERCENT OR LESS PASSING THE NUMBER OF 10 SIEVE.

5 STRIP SOD AND TOPSOIL FROM AREAS TO BE DISTURBED BY CONSTRUCTION AND REUSE AS SLOPE DRESSING.

6 ALL TOPSOIL STRIPPING WILL BE INCLUDED IN THE COMMON EXCAVATION QUANTITIES.

7 THE ORGANIC PORTIONS OF THE SURFICIAL DEPOSITS SHOULD BE REMOVED WITH A MINIMUM 1' DEEP SUBCUT IN THE PROPOSED ROADWAY AREAS PRIOR TO CONSTRUCTION OF THE PAVEMENT SECTION. BACKFILL WITH SELECT GRANULAR MATERIAL MODIFIED. ANY UNCONTAMINATED COMMON EMBANKMENT MATERIAL REMOVED FROM THE EXISTING SUBGRADE AREA MAY BE USED IN OTHER AREAS DESIGNATED FOR COMMON EMBANKMENT MATERIAL.

8 EXCESS TOPSOIL AND MUCK MATERIAL SHALL BE USED THROUGHOUT THE PROJECT AND AS DIRECTED BY THE ENGINEER.

9 IN FILL SECTIONS, TOPSOIL AND OTHER UNSUITABLE MATERIALS SHALL BE ELIMINATED FROM THE UPPER 1 FOOT OF THE "GRADING GRADE" BENEATH THE ROADWAY, WITHIN THE LIMITS SHOWN ON THE TYPICAL SECTIONS.

10 OBTAIN COMPACTION ON THE GRADING PORTIONS OF PERMANENT CONSTRUCTION IN ACCORDANCE WITH THE "QUALITY COMPACTION METHOD" REQUIREMENTS.

11 COMPACTION OF THE AGGREGATE BASE LAYER SHALL BE OBTAINED IN ACCORDANCE WITH THE "QUALITY COMPACTION METHOD". THE TEST SHALL BE PERFORMED IN ACCORDANCE WITH SECTION C3 OF THE (2211) AGGREGATE BASE SPECIFICATION, INCLUDED IN THE SPECIAL PROVISIONS. THIS WOULD INCLUDE ANY AREAS WHERE CRUSHED CONCRETE OR SALVAGED ASPHALT MAY BE USED FOR AGGREGATE BASE.

12 COMPACTION OF THE GRADING AND AGGREGATE ITEMS ON BYPASSES AND OTHER TEMPORARY WORK SHALL BE BY THE "QUALITY COMPACTION METHOD".

13 TEST ROLLING SHALL NOT BE REQUIRED ON THIS PROJECT.

14 THE BOTTOM OF ALL SUBCUTS SHALL BE SHAPED AND COMPACTED BY THE "QUALITY COMPACTION METHOD". THE CONTRACTOR SHALL USE A MINIMUM OF 4 PASSES OF AN APPROVED COMPACTION DEVICE.

15 AS A PRECAUTIONARY MEASURE FROM A SOILS STANDPOINT, TRAFFIC LANES TO BE USED DURING CONSTRUCTION MUST BE DELINEATED TO KEEP VEHICLES A SAFE DISTANCE AWAY FROM THE ADJACENT EXCAVATION. THE DELINEATION SHOULD COINCIDE WITH POINTS ESTABLISHED BY PROJECTING A 1(V):2(H) OR GREATER (FLATTER) SLOPE BETWEEN THE EDGE OF THE TRAFFIC SURFACE AND THE BOTTOM OF THE EXCAVATION.

16 WHERE CONNECTING TO THE INPLACE ROADWAYS AT THE TERMINI OF PROPOSED CONSTRUCTION, CUT VERTICALLY TO THE BOTTOM OF THE INPLACE SURFACING OR TO THE BOTTOM OF THE NEW SURFACING, WHICHEVER IS DEEPER, THEN 1(V):20(H) TO THE BOTTOM OF THE RECOMMENDED SUBGRADE EXCAVATION, UNLESS OTHERWISE NOTED.

17 PROVIDE 1(V):20(H) LONGITUDINAL TAPERS BETWEEN CHANGES IN SUBGRADE AND SUBCUT DEPTHS.

18 DITCH BOTTOMS, TOE OF FILL, CUT RUNOUTS AND THE TOP EDGE OF THE BACKSLOPES SHALL BE ROUNDED REGARDLESS OF THE SECTION USED ON THE CROSS SECTION SHEETS.

19 PROVIDE FOR A UNIFORM BITUMINOUS TACK COAT BETWEEN ALL BITUMINOUS COURSES. THE TACK COAT SHALL BE IN ACCORDANCE WITH MN/DOT SPECIFICATION 2357 WITH THE FOLLOWING MODIFICATIONS:

1. THE TACK COAT SHALL CONSIST OF EMULSIFIED ASPHALT (CSS-1 OR CSS-1H) AND SHALL BE APPLIED BETWEEN ALL BITUMINOUS COURSES.

2. THE TACK COAT SHALL BE APPLIED AT A UNIFORM RATE OF 0.03 TO 0.05 GAL/SY BETWEEN BITUMINOUS LAYERS AND 0.07 TO 0.10 GAL/SY ON MILLED BITUMINOUS SURFACES PRIOR TO BEING OVERLAID.

20 STABILIZING AGGREGATE SHALL BE INCORPORATED INTO THE SUBGRADE TO ACHIEVE SATISFACTORY SURFACE STABILITY AT LOCATIONS DEEMED NECESSARY BY THE ENGINEER, IN ACCORDANCE WITH THE PROVISIONS OF SPEC. 2105.3G. GRANULAR MATERIAL WHICH IS FURNISHED BY THE CONTRACTOR SHALL BE STABILIZED, IF NECESSARY, AT THE CONTRACTOR'S EXPENSE. WHERE STABILIZING AGGREGATE IS DEEMED NECESSARY, IT SHALL BE APPLIED AT A RATE OF APPROXIMATELY 200 LBS/SY.

21 PROVIDE A SAWCUT WHERE PLACING NEW PAVEMENT ADJACENT TO INPLACE PAVEMENT TO ENSURE A UNIFORM JOINT.

22 ALL PEDESTRIAN RAMPS SHALL MEET THE PUBLIC RIGHT-OF-WAY ACCESSABILTY GUIDELINES (PROWAG), TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT.

REMOVALS

23 PROVIDE FOR THE REMOVAL AND DISPOSAL OF ANY INPLACE SURFACING, GUARDRAIL, OTHER STRUCTURES OR DEBRIS THAT WOULD INTERFERE WITH CONSTRUCTION. ALL SUCH MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL EITHER BE RECYCLED TO THE EXTENT ALLOWED OR DISPOSED OF OFF THE RIGHT OF WAY IN ACCORDANCE WITH SPEC. 2104.03.C. PROVIDE FOR SAW CUTTING AS DEEMED NECESSARY BY THE ENGINEER.

24 THE EXISTING PAVEMENT THICKNESSES ARE ASSUMED TO BE AS FOLLOWS:
PINEWOOD ROAD - VAR. 3.5"-8" BITUMINOUS
30TH AVE - VAR. 3.5-5" BITUMINOUS

THE CONTRACTOR SHALL INVESTIGATE AND MAKE HIS OWN DETERMINATION.
(INFORMATION TAKEN FROM THE PROJECT SOIL BORINGS AND RECORD DRAWINGS).

TURF ESTABLISHMENT

25 PLACE A MINIMUM OF 6 INCHES OF TOPSOIL IN SEED AREAS AND 3 INCHES IN SOD AREAS ON ALL AREAS SCHEDULED FOR PERMANENT TURF ESTABLISHMENT.

26 SOD ALL AREAS ADJACENT TO RESIDENCES OR BUSINESSES AND AREAS OF HEAVY DRAINAGE RUNOFF, AS INDICATED IN THE TURF ESTABLISHMENT AND EROSION CONTROL PLANS AND DETAILS.

27 ALL EXPOSED SOIL AREAS MUST BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION BUT IN NO CASE LATER THAN SEVEN (7) DAYS AFTER THE CONSTRUCTION ACTIVITY IN AN PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

28 SEEDING REQUIREMENTS ON THIS PROJECT ARE AS FOLLOWS:

A. ON PERMANENT SLOPES 1:3 OR FLATTER USE SEED MIXTURE 340 AND TYPE 6 MULCH. SEE EROSION CONTROL AND TURF ESTABLISHMENT PLANS FOR SEED TYPE LOCATIONS.

B. ON PERMANENT SLOPES STEEPER THAN 1:3 USE SOD OR SEED MIXTURE 340 AND EROSION CONTROL BLANKET CATEGORY 3. DO NOT DISK ANCHOR.

C. PROVIDE COMMERCIAL FERTILIZER TYPE 3, OR EQUIVALENT ON ALL AREAS TO BE SEEDED OR SODDED.

MISCELLANEOUS

29 WHERE SEDIMENT DEPOSITS OFF-SITE OR IN A STREAM CHANNEL IN ANY LOCATION, THE MATERIAL MUST BE REMOVED IN 2 DAYS.

30 ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ANY WORK AREAS NEAR TRAFFIC IN ACCORDANCE WITH THE MMUTCD.

31 THE CONTRACTOR IS HEREBY REMINDED OF HIS RESPONSIBILITY UNDER STATE LAW TO CONTACT ALL UTILITIES THAT MAY HAVE FACILITIES IN THE AREA. CONTACT MUST BE MADE THROUGH GOPHER STATE ONE-CALL.

32 WHENEVER THE WORD "INCIDENTAL" IS USED IN THIS PLAN, IT SHALL MEAN THIS WORK WILL BE INCIDENTAL FOR WHICH NO DIRECT COMPENSATION WILL BE MADE.

33 ALL REQUIRED DEWATERING ON THIS PROJECT IS CONSIDERED INCIDENTAL.

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Revision comment:
Revision: —
Creation Date: —

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Date: 07/27/11 Reg. No. 24657

Title: CONSTRUCTION AND SOIL NOTES
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 20 of 173 Sheets

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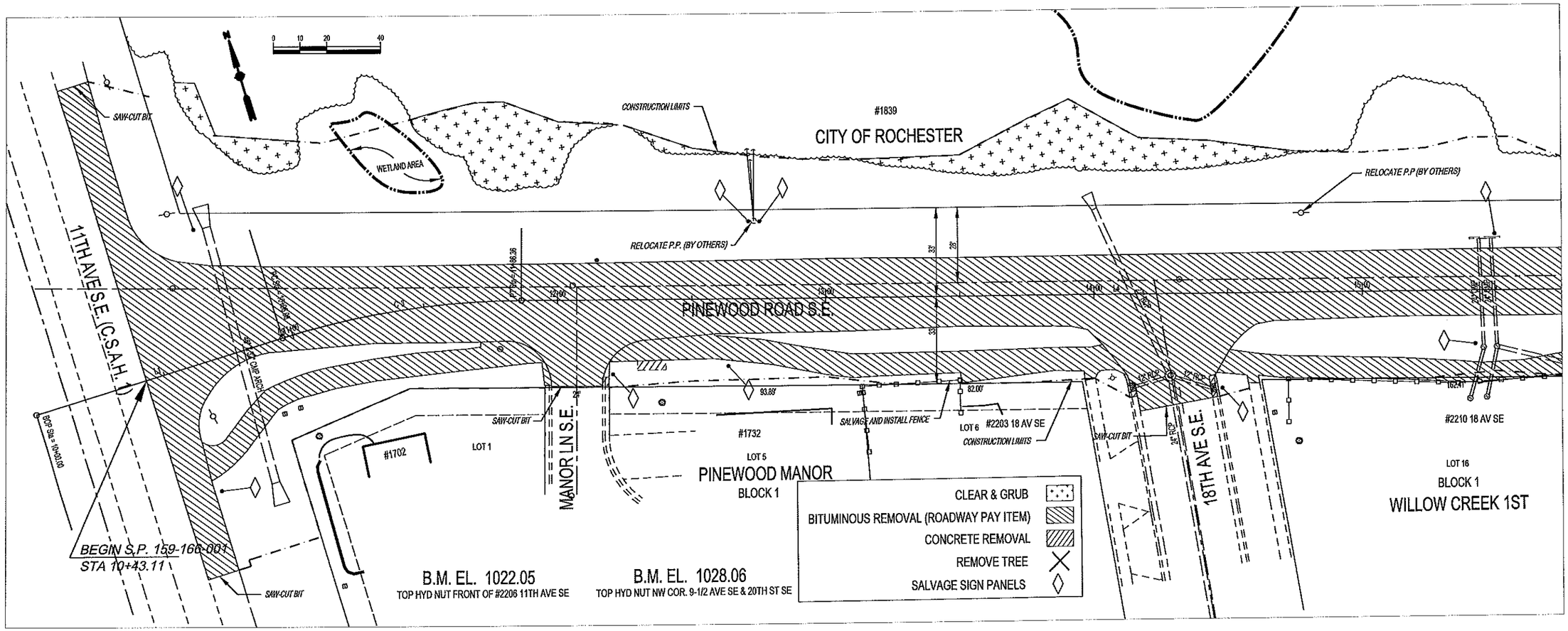

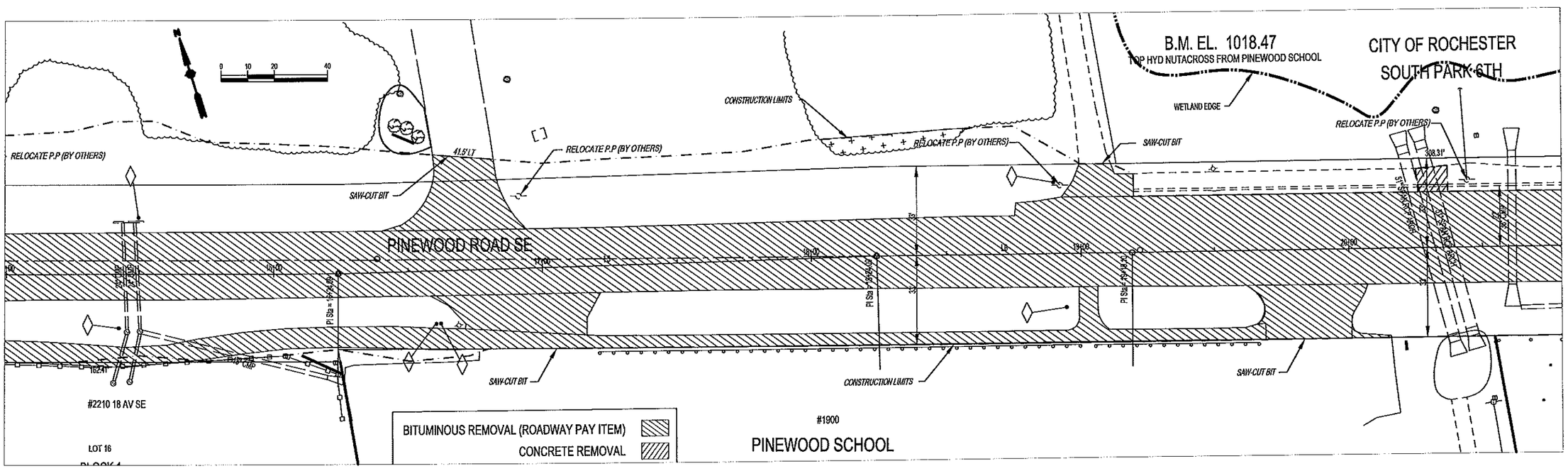

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S.P. No. 159-166-001
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Project No. M7-18
J7257
Sheet 21 of 173 Sheets

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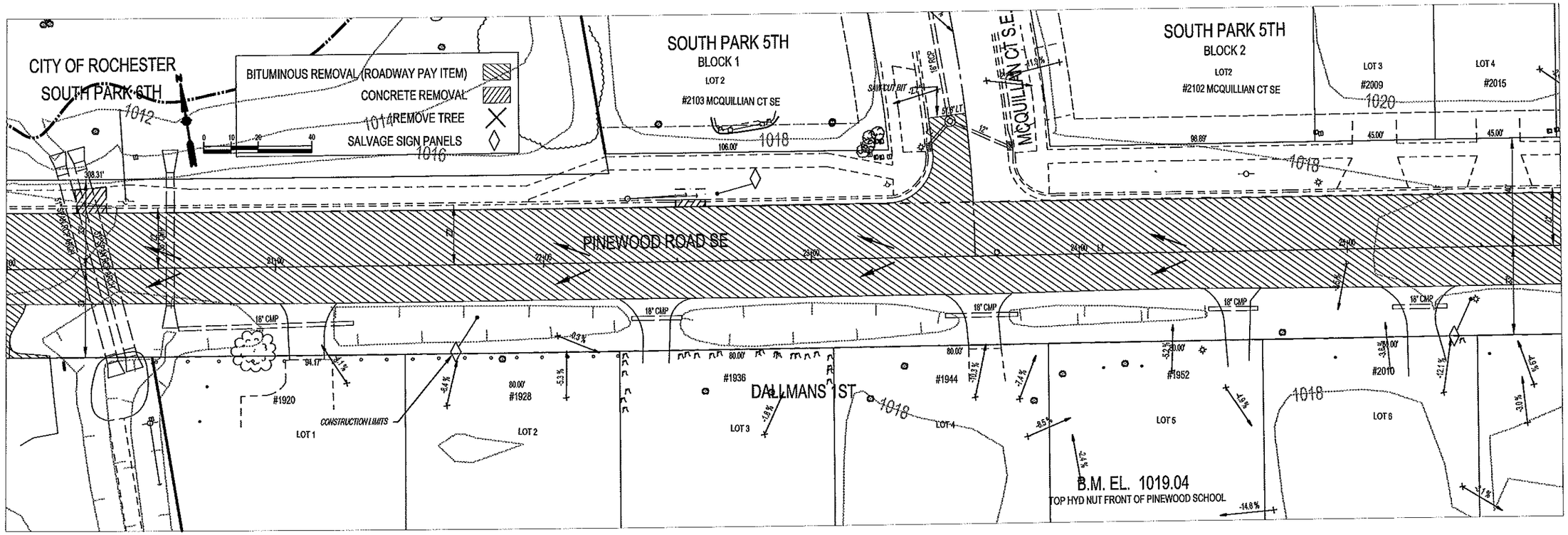

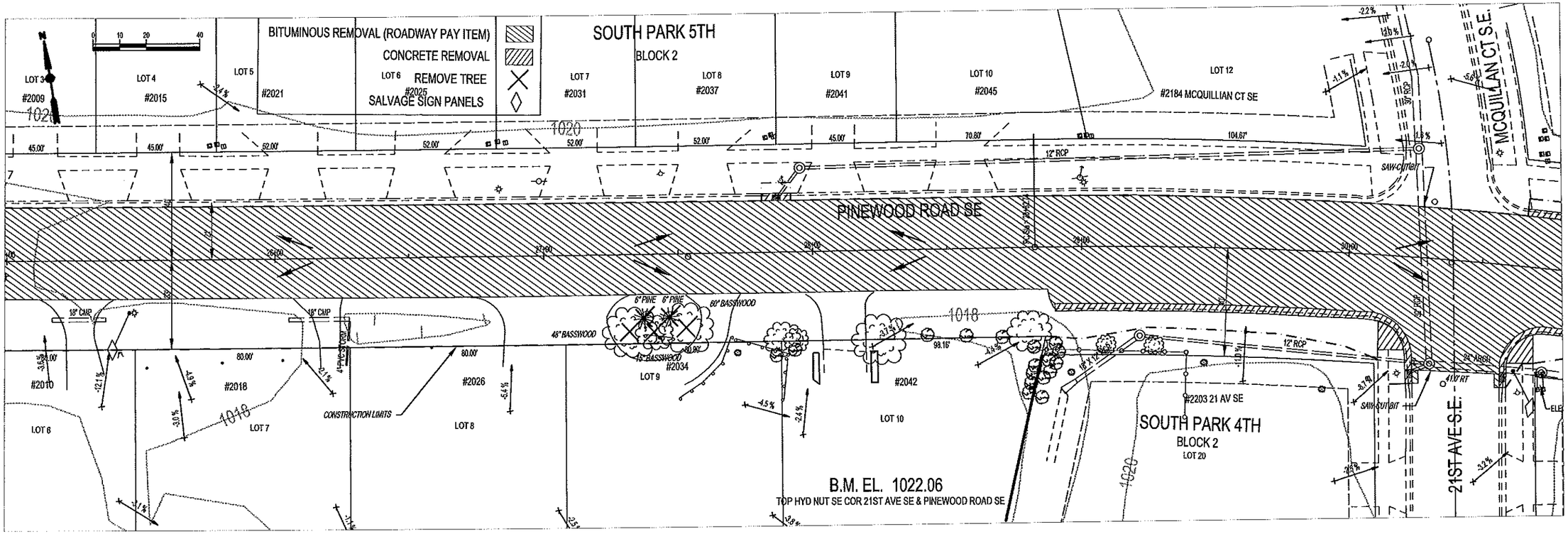

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Title: REMOVALS

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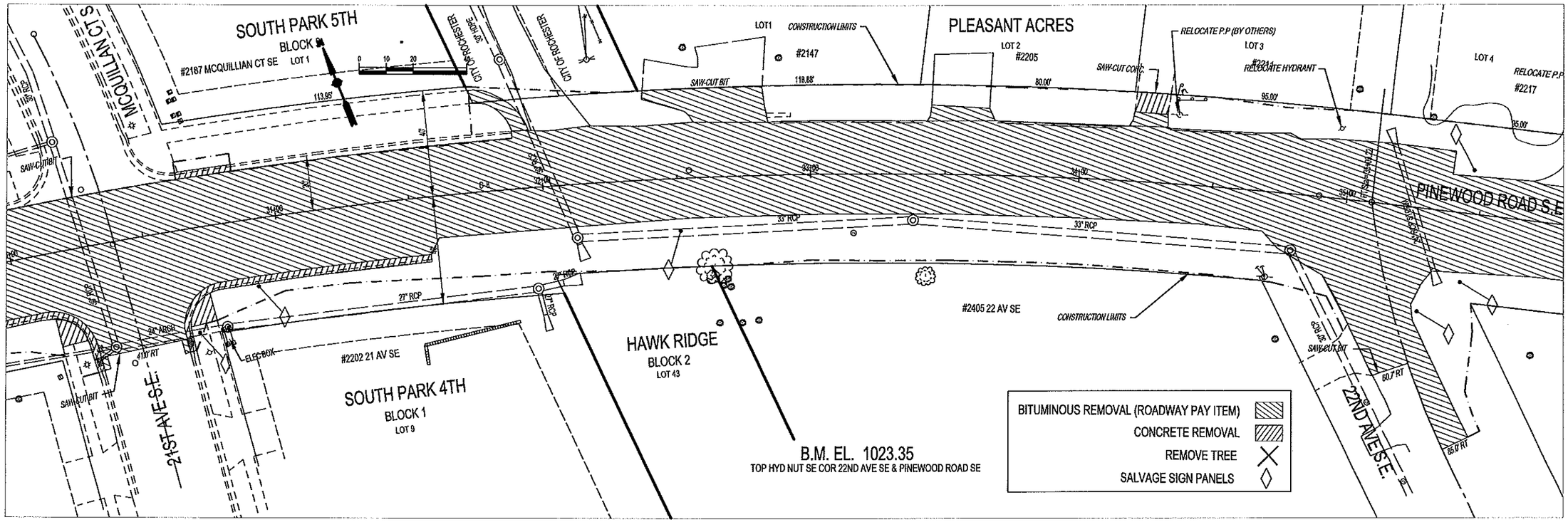
S.P. No. 159-166-001

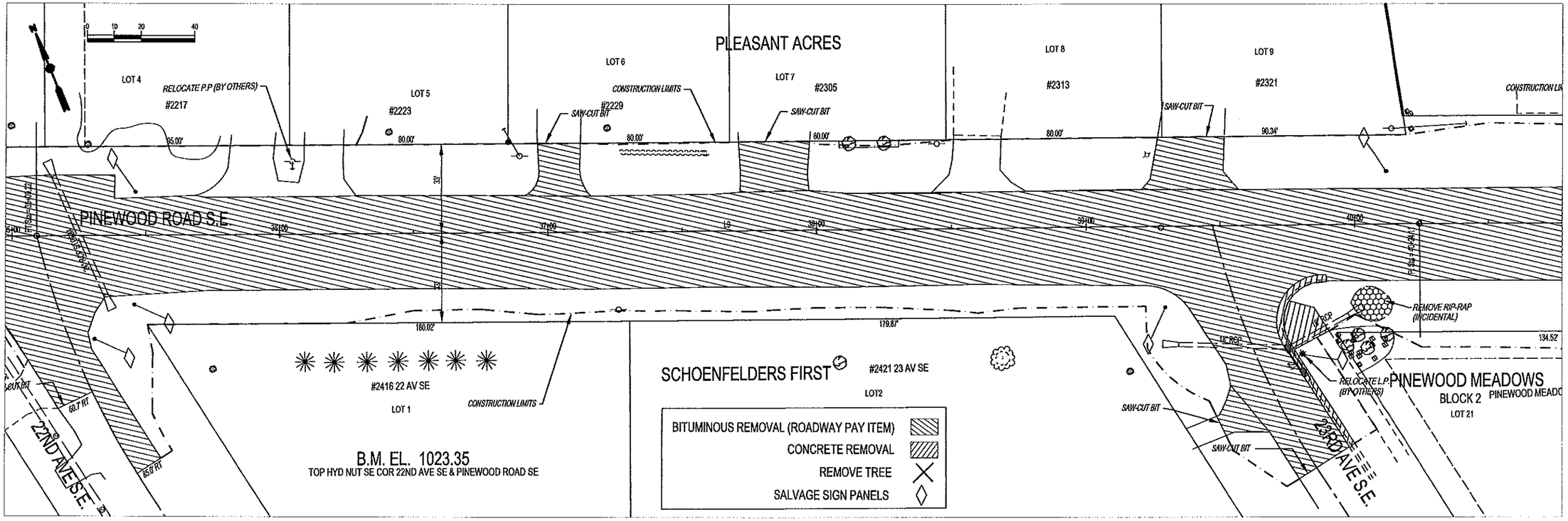
S.P. No. 159-167-001

Project No. M7-18

J7257

Sheet 22 of 173 Sheets





Revision comment: ADDENDUM #1
Revision: 09/23/11
Creation Date:

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Project No. M7-18 J7257
Sheet 23 of 173 Sheets

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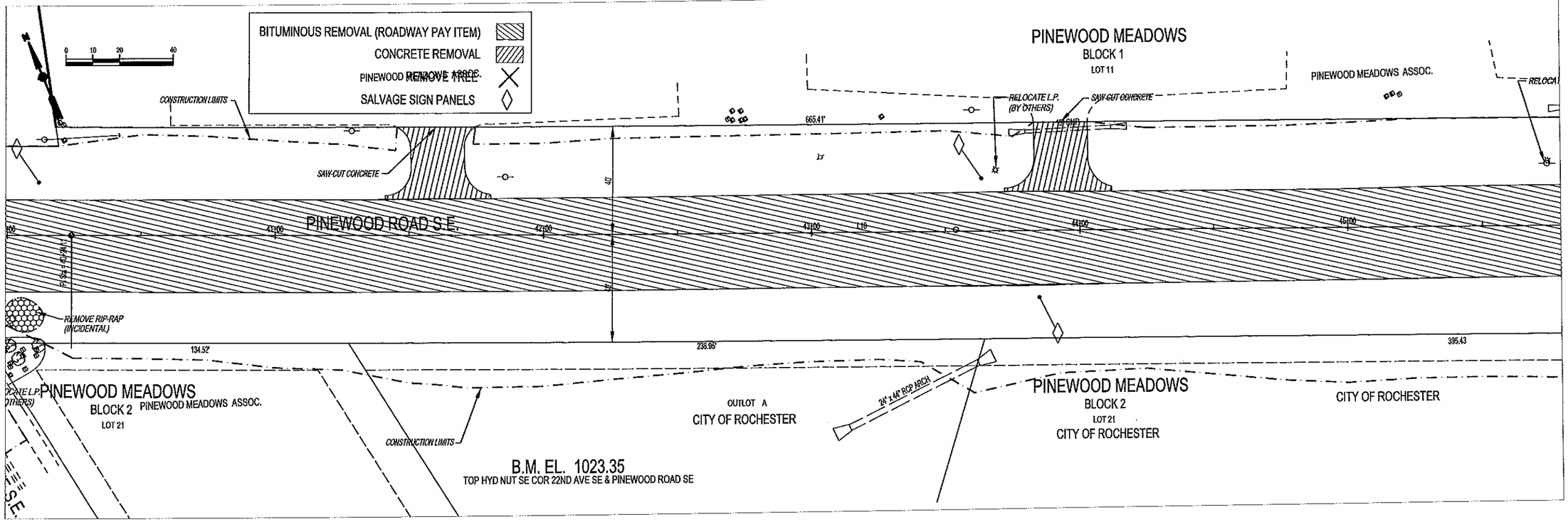

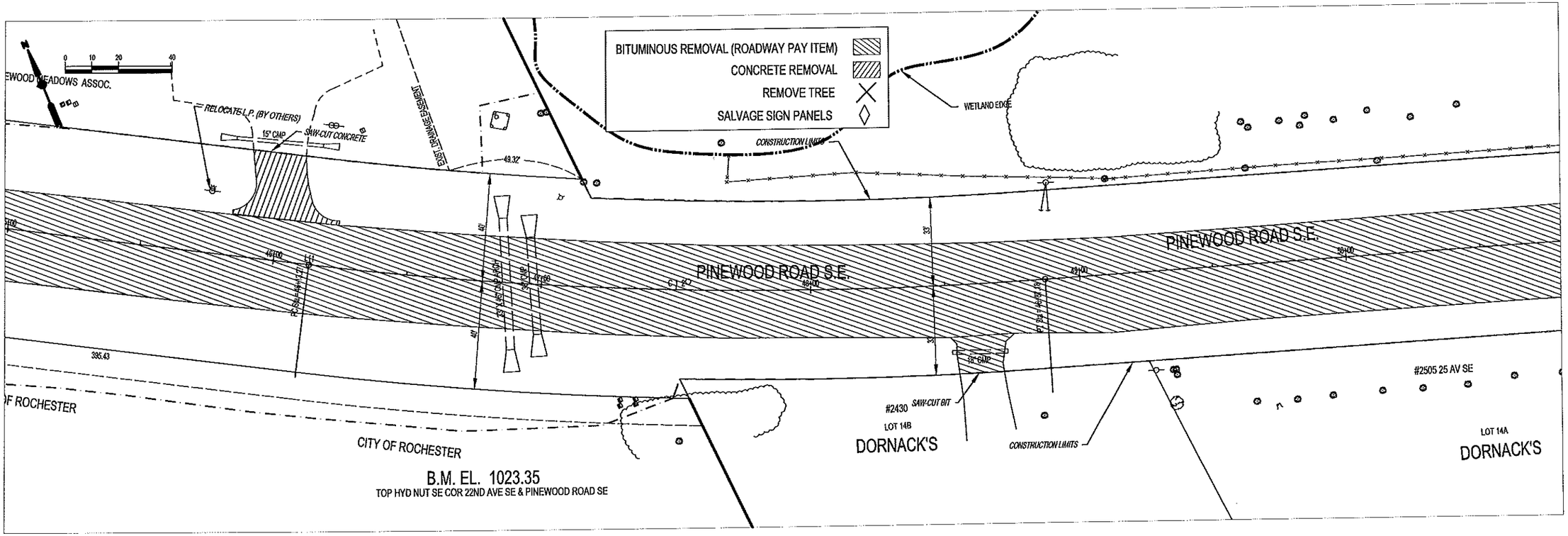

Revision comment:
Revised: –
Creation Date: –

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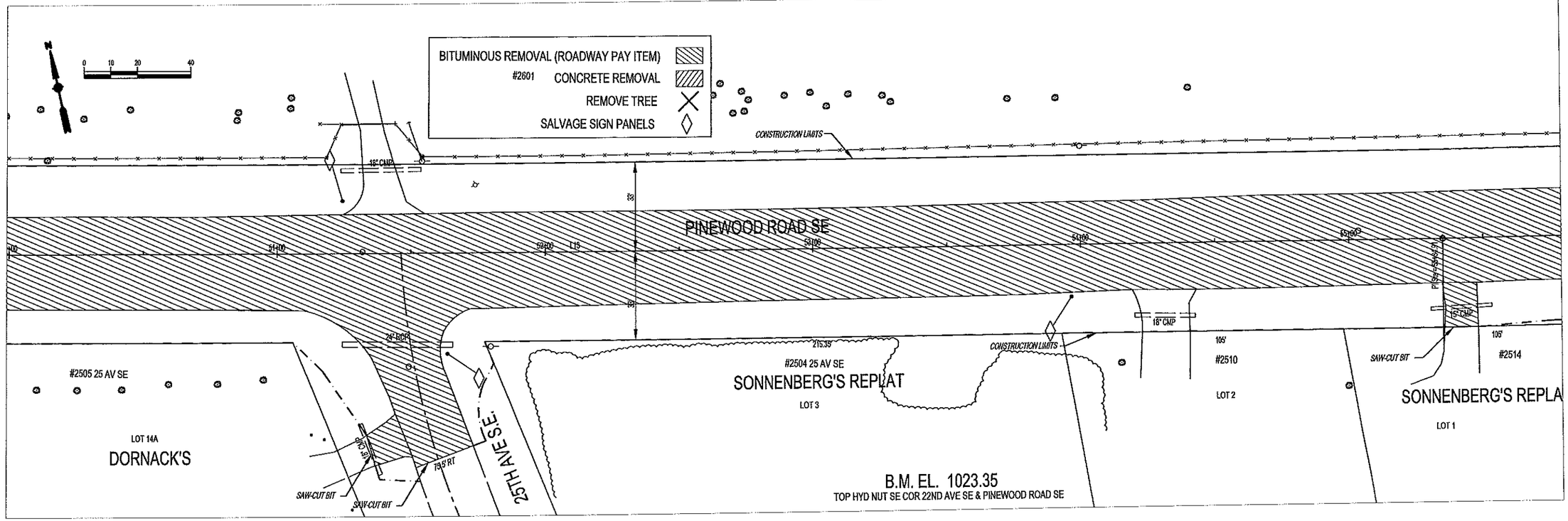
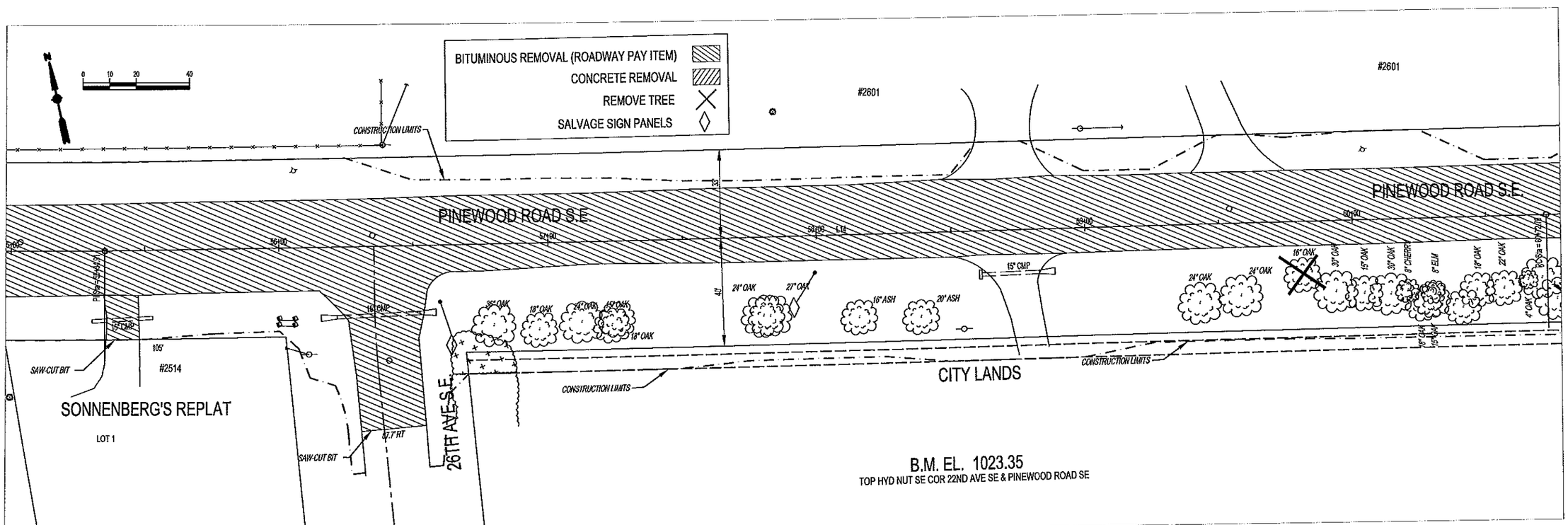
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 24 of 173 Sheets





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Revision statement:

Revision#: –

Creation Date: –

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Date: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2400
FAX: (507) 328-2401

Title: REMOVALS

Designer: RLW

Checker: RJK

S.P. No. 159-166-001

S.P. No. 159-167-001

Project No. M7-18 J7257

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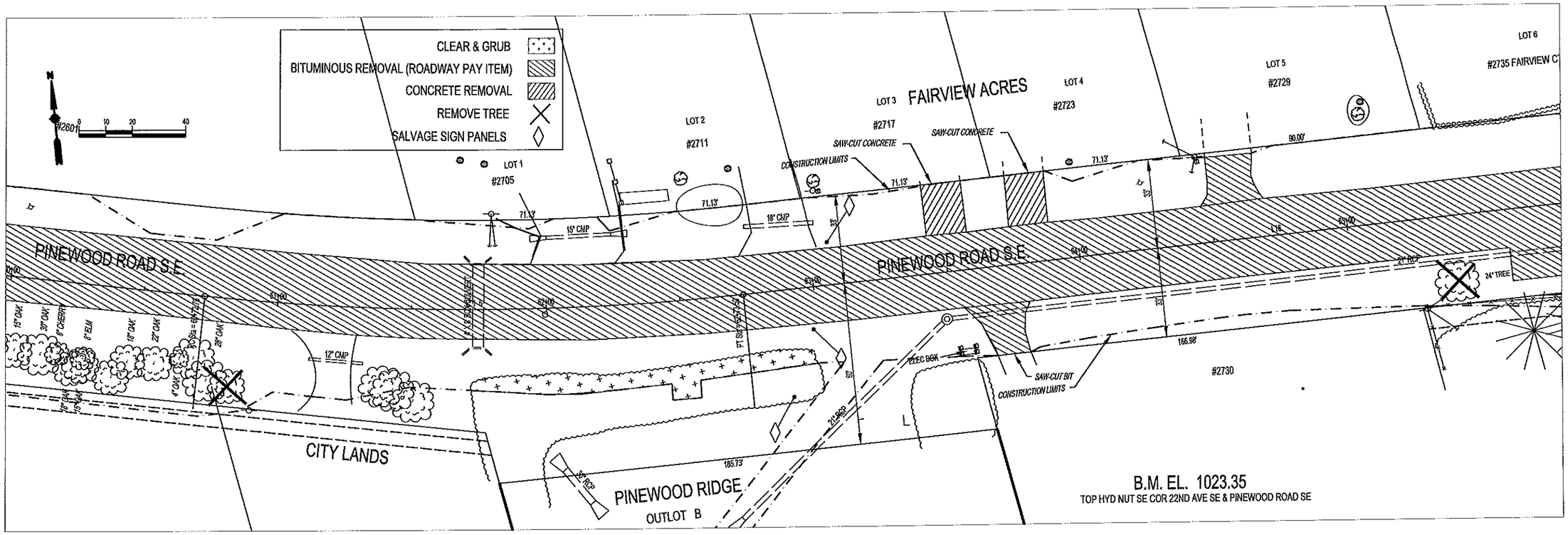

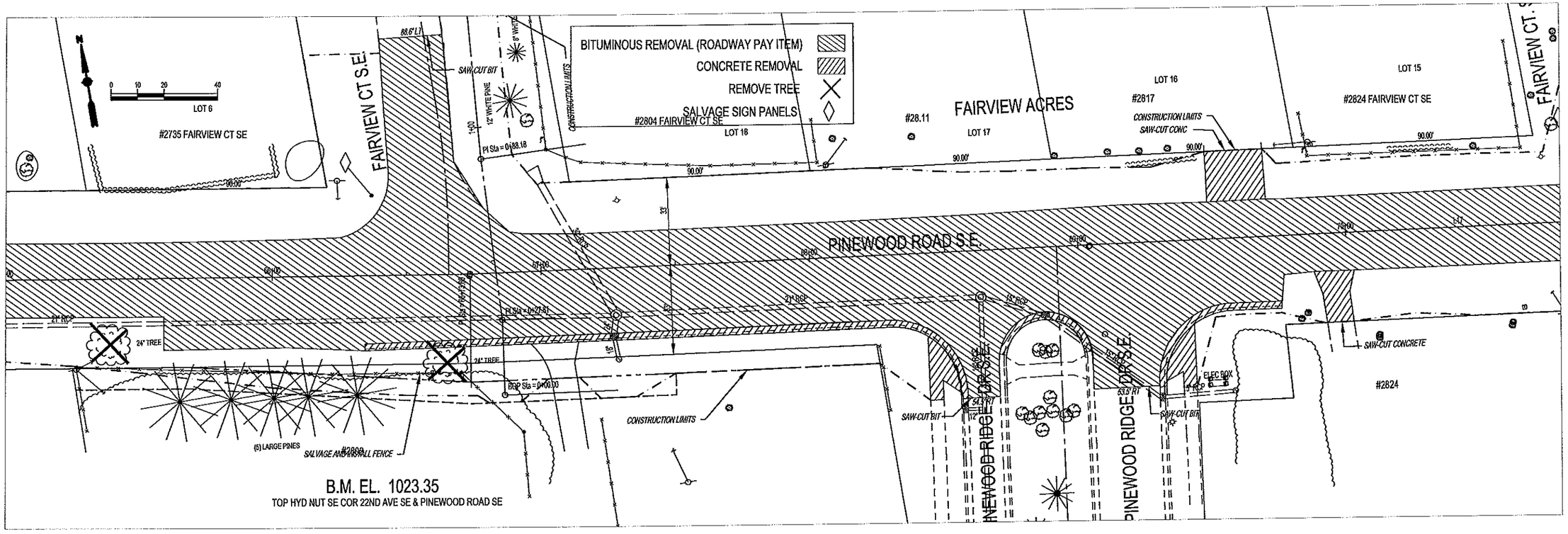

Revision comment: –

Revised: –

Creation Date: –

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: 07/27/11 Reg. No. 24657

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-4700
FAX: (507) 328-4701

Title: REMOVALS

Designer: RLW

Checker: RJK

S.P. No. 159-166-001

S.P. No. 159-167-001

Project No. M7-18

J7257

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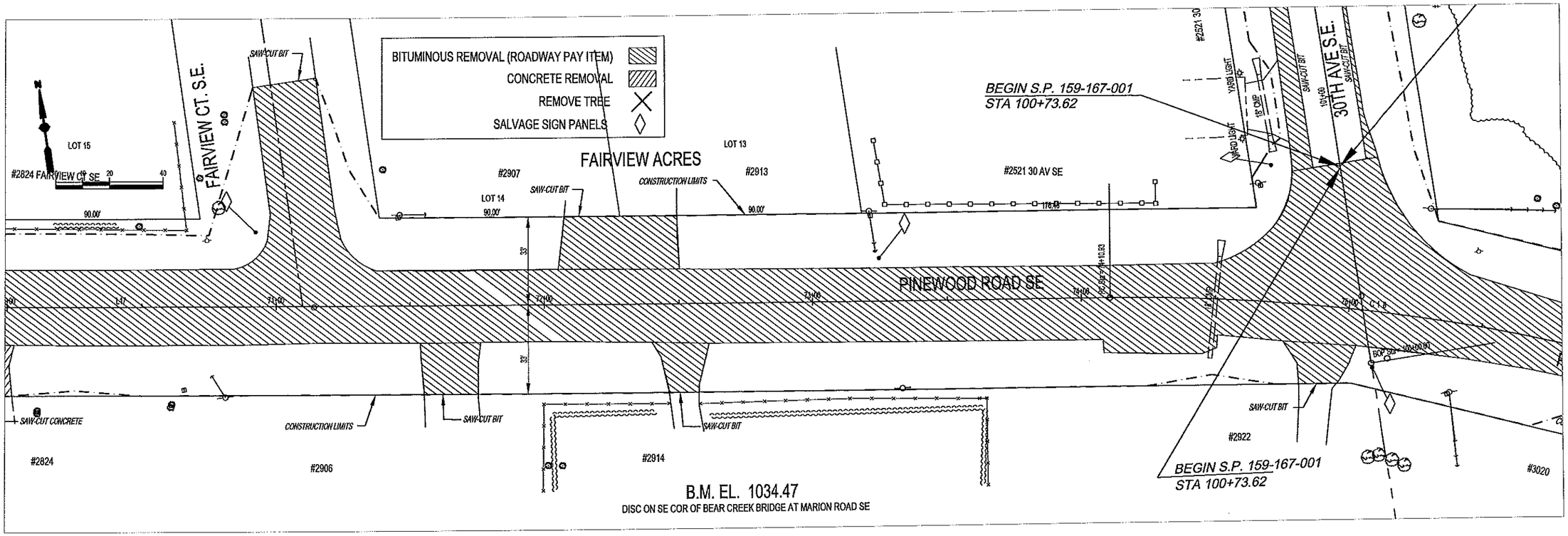

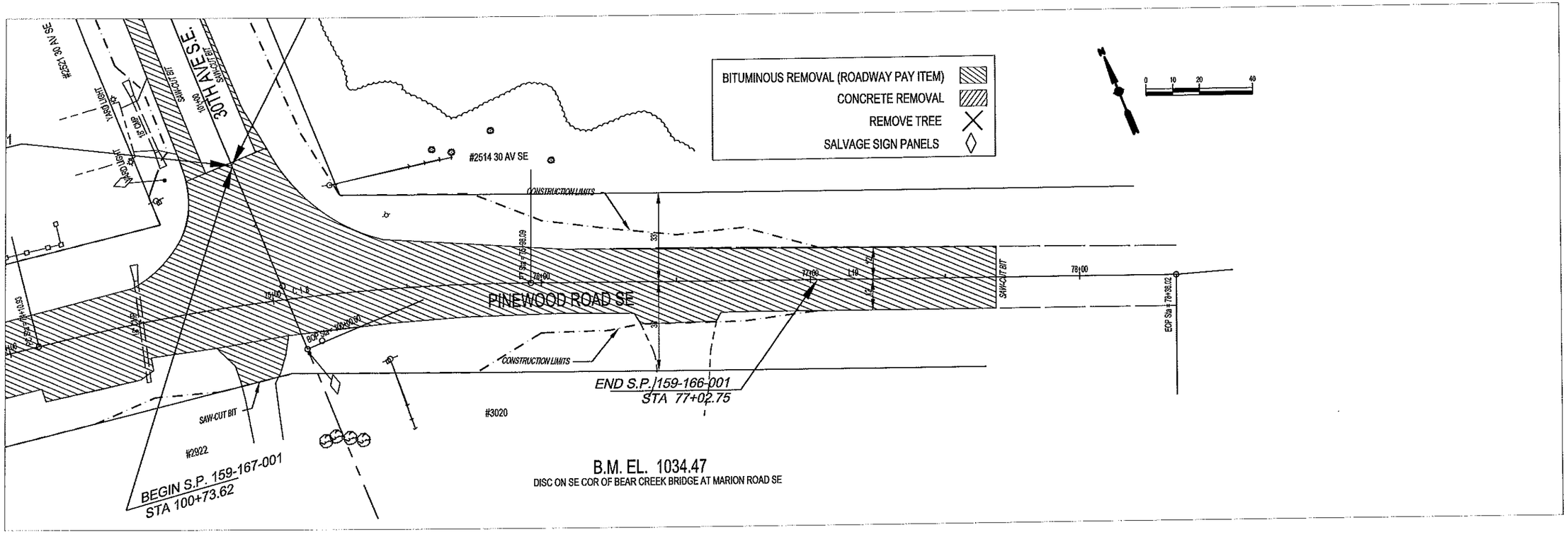

Revision comment: –
Revised: –
Creation Date: –

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: 07/27/11 Reg. No. 24697

City of Rochester, Minnesota
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-4500
FAX: (507) 328-4601
Department Of Public Works

Title: REMOVALS
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 27 of 173 Sheets

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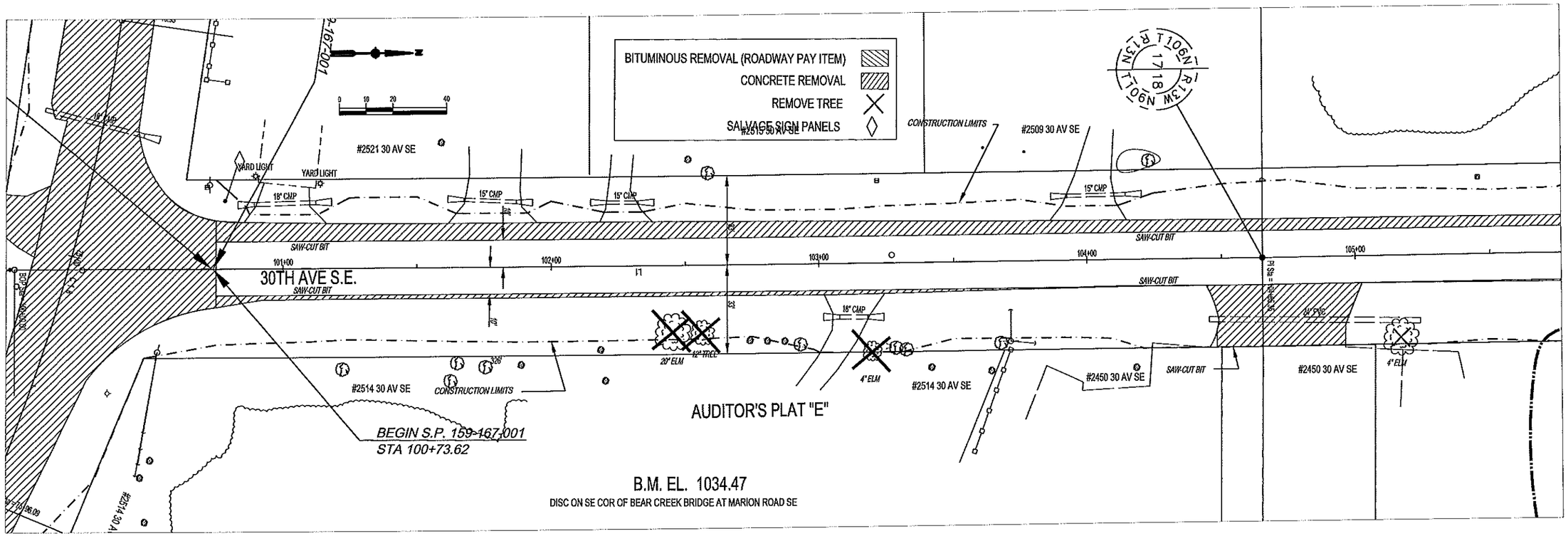

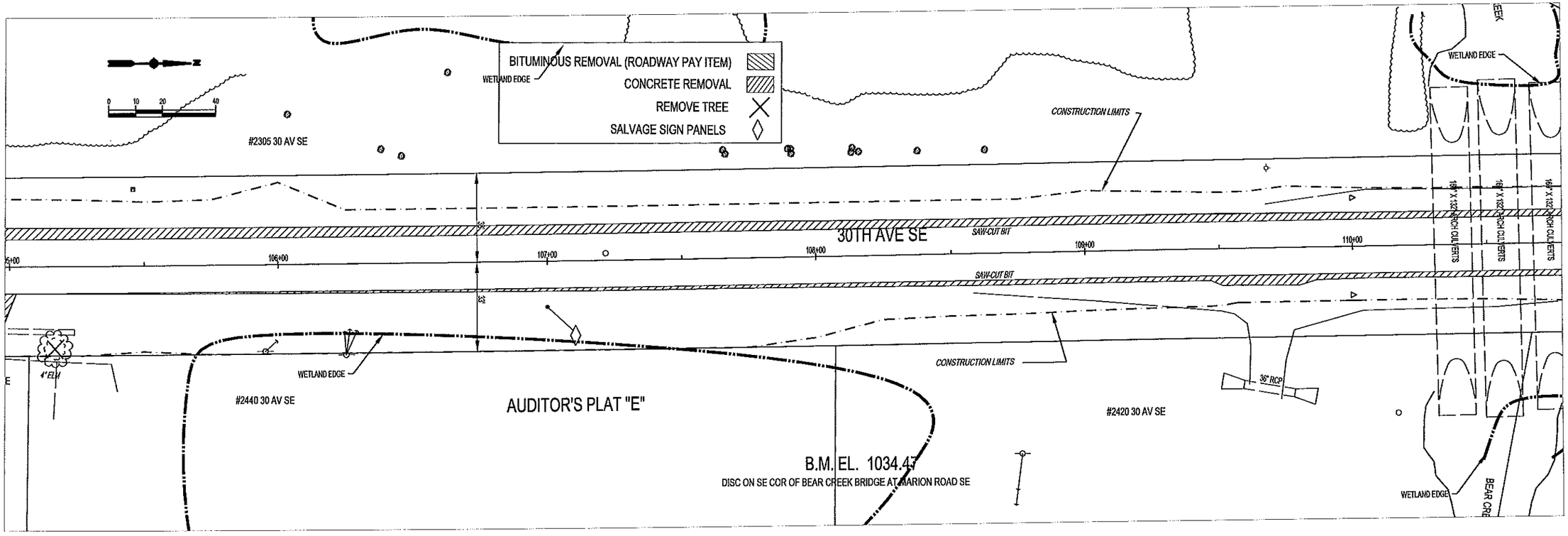

Revision comment: —
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I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Date: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
FAX: (507) 328-2401

Title: REMOVALS

Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
Sheet 28 of 173 Sheets

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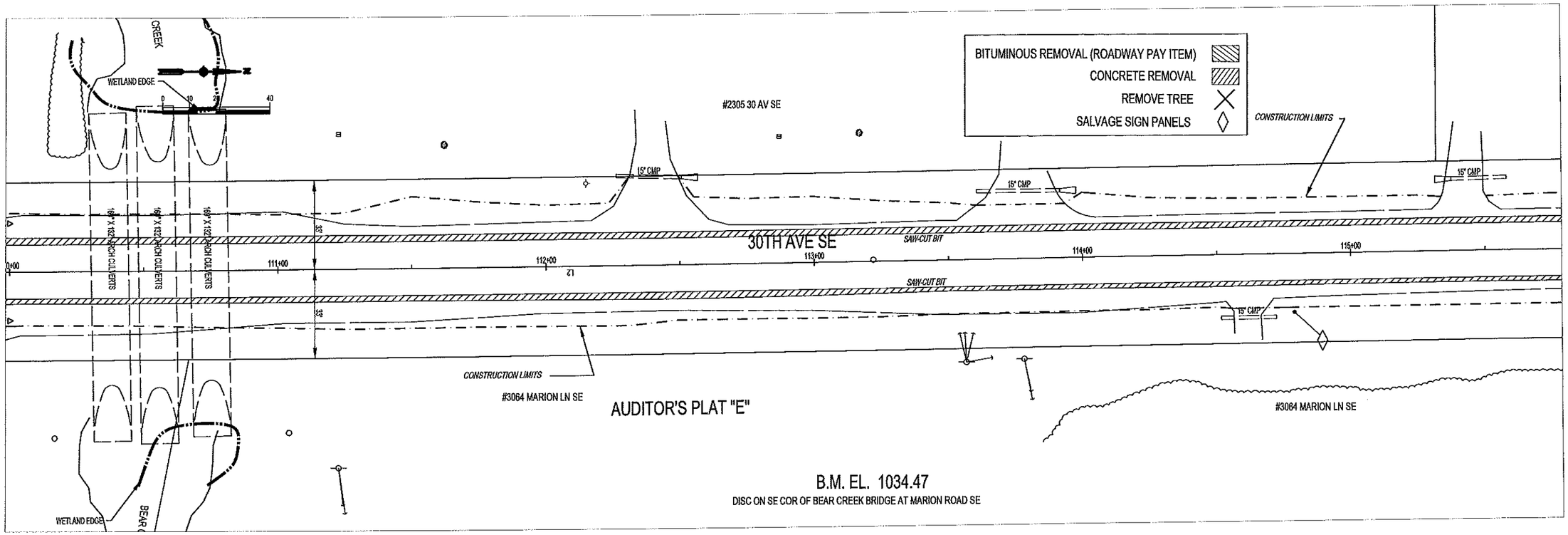

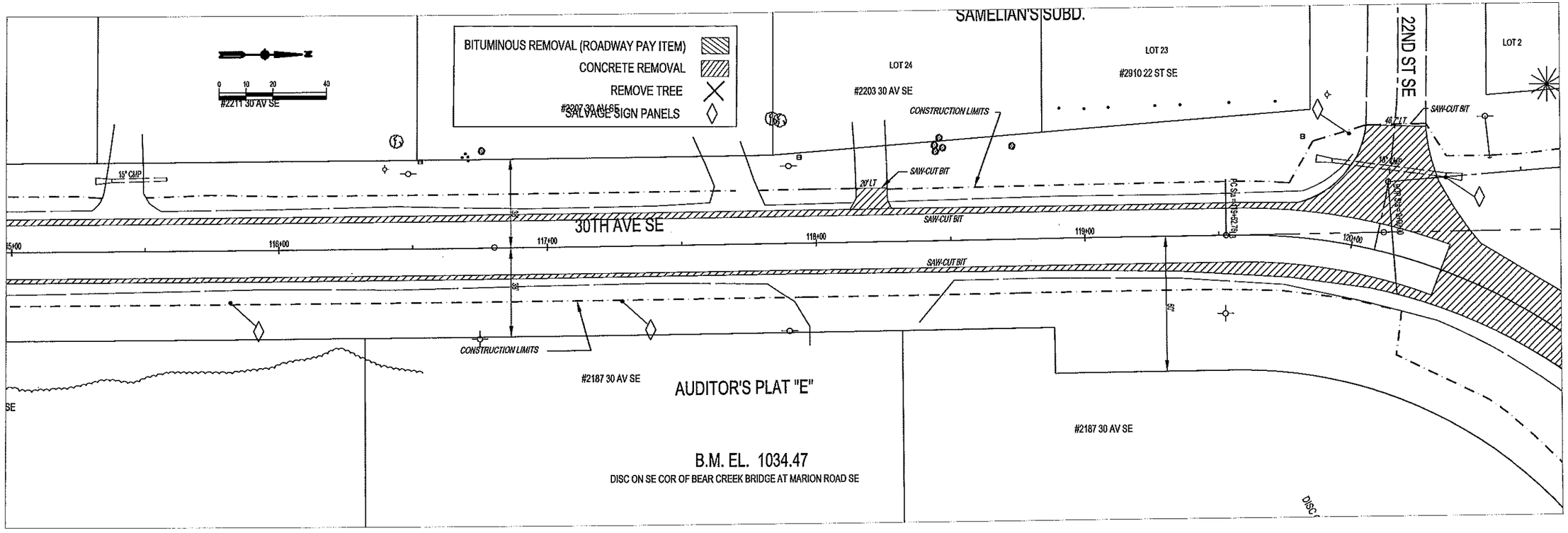

Revision comment: —

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Date: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
FAX: (507) 328-2401

Title: REMOVALS

Designer: RLW

Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 29 of 173 Sheets

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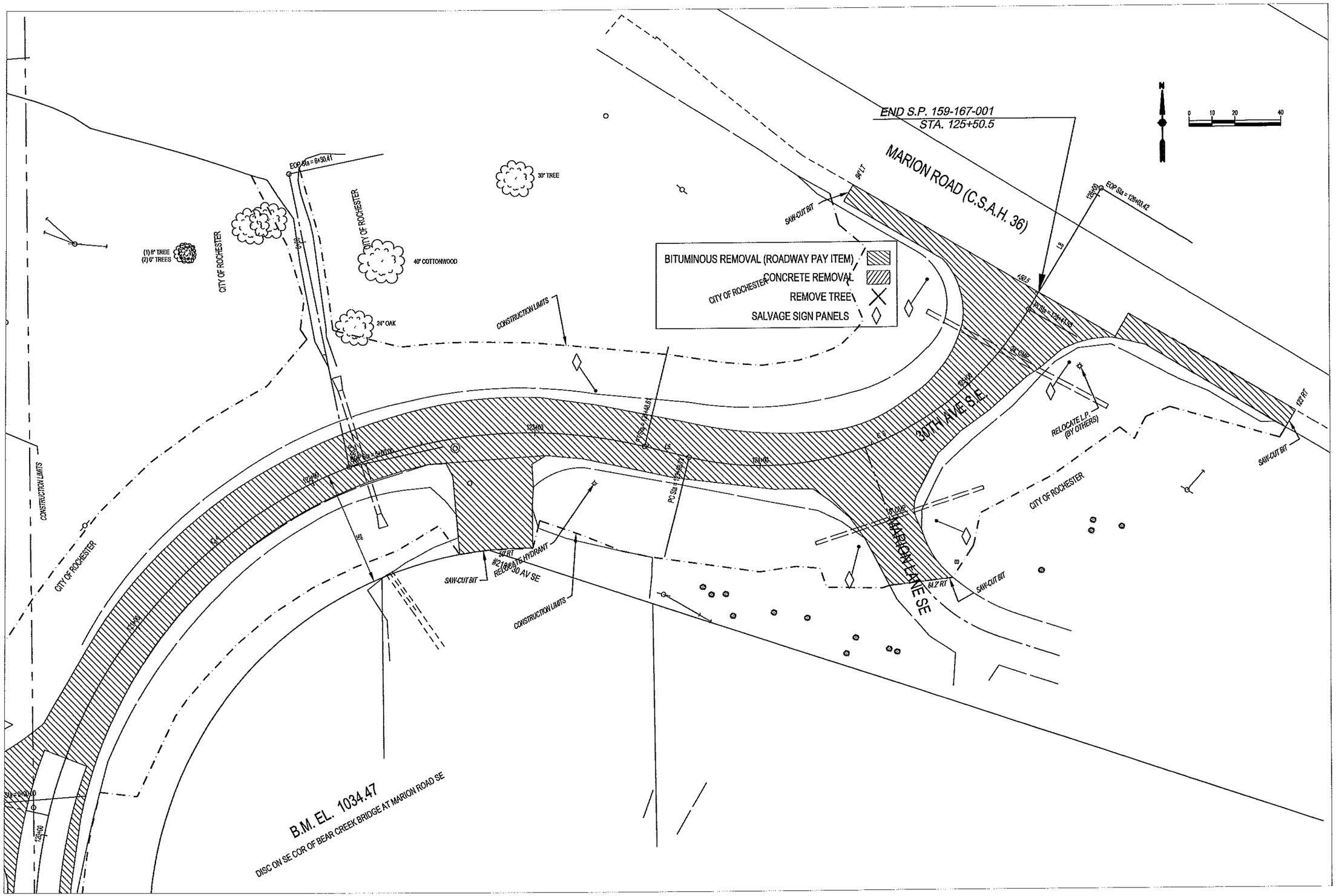

Revision comment: —
Revised: —
Creation Date:

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: 07/27/11 Reg. No. 24657

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-3569
FAX: (507) 328-3601

Title: REMOVALS
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J 7257
Sheet 30 of 173 Sheets

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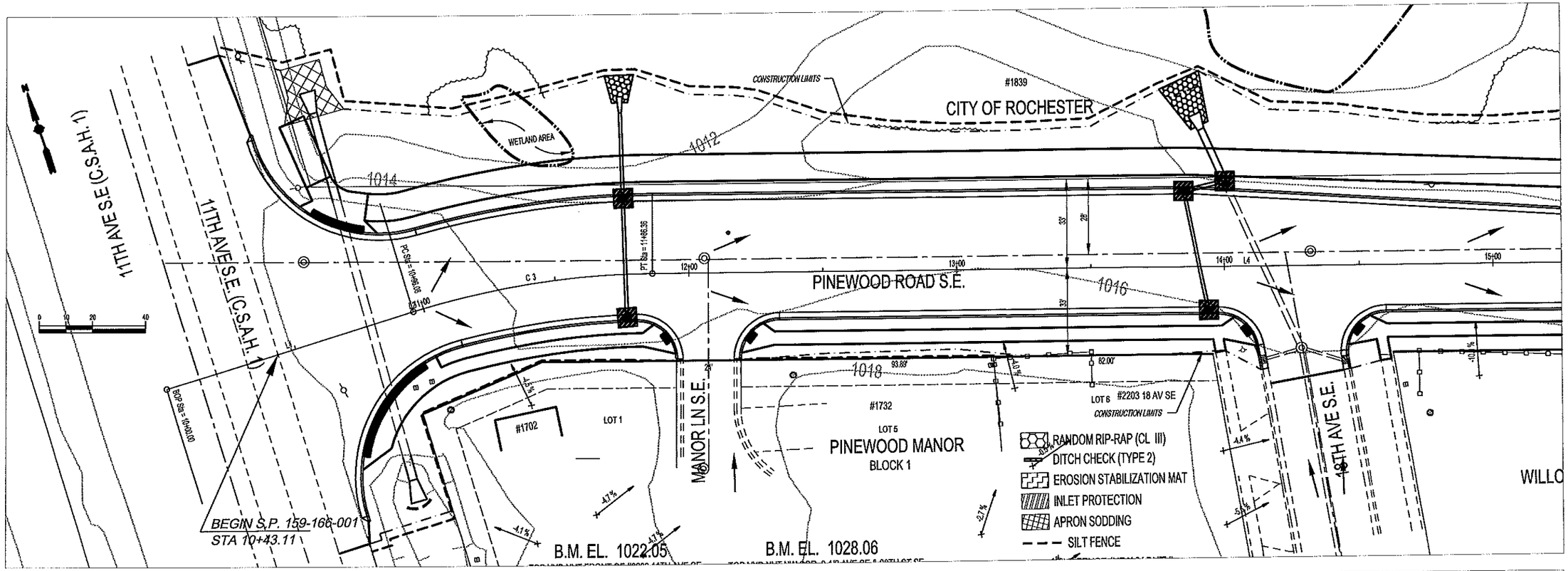

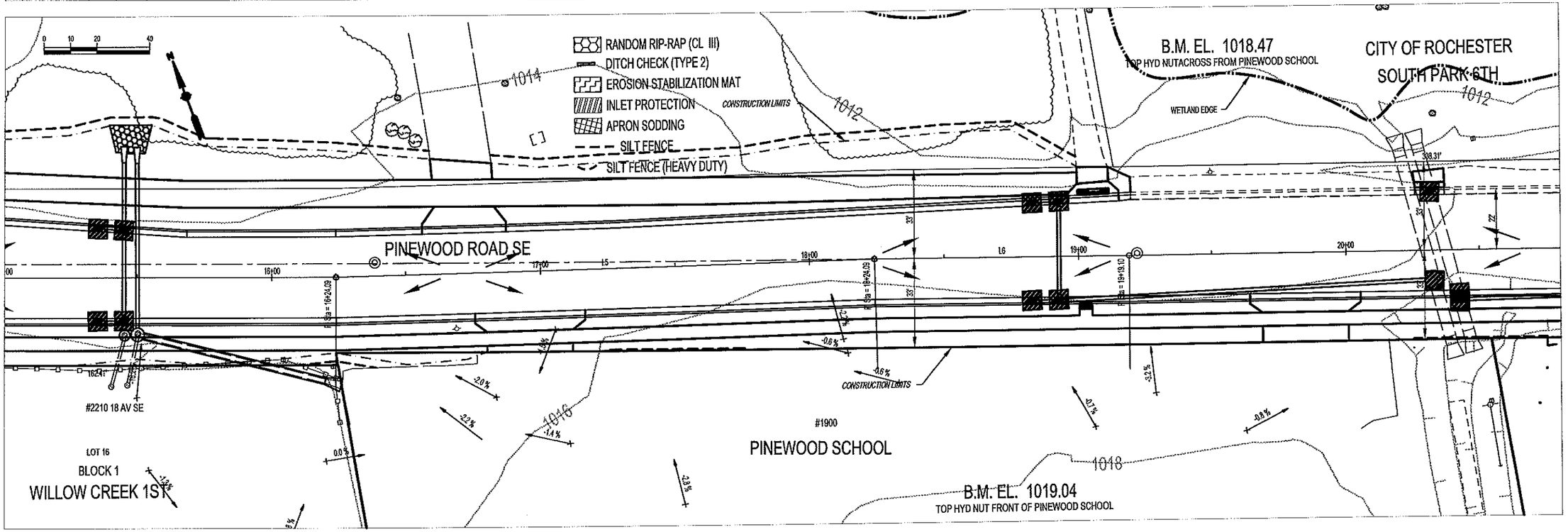

Revision comment: —
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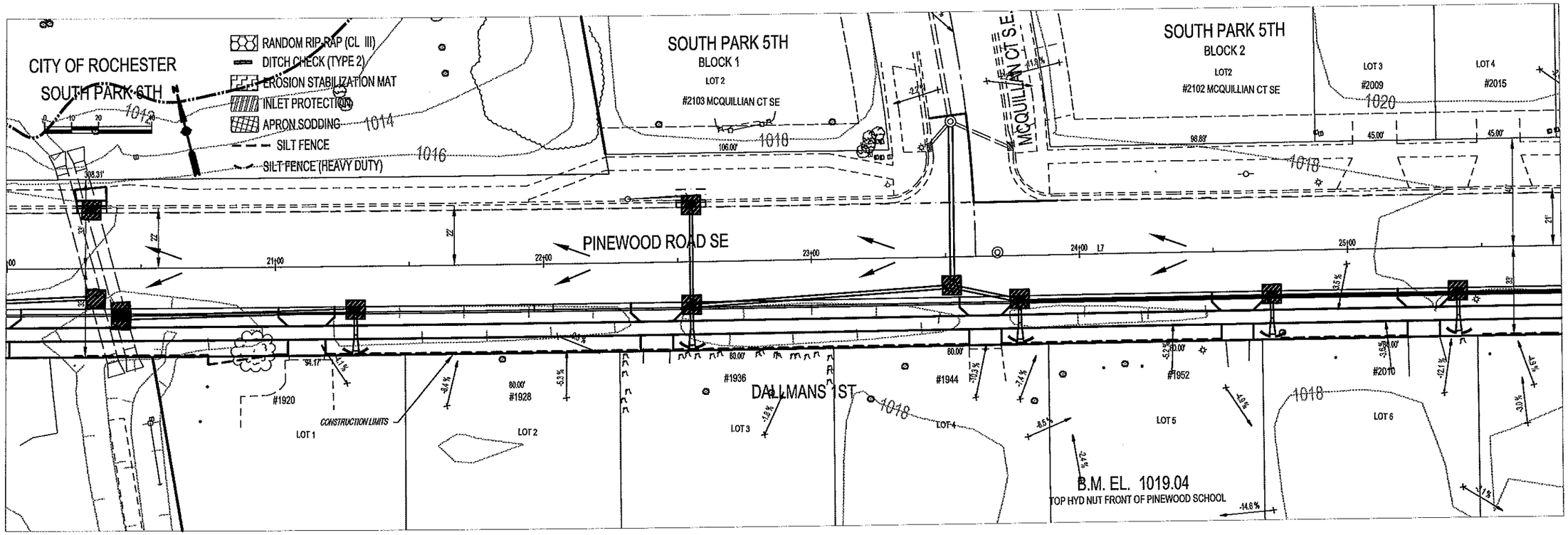
Date: 07/27/11 Reg. No. 24687

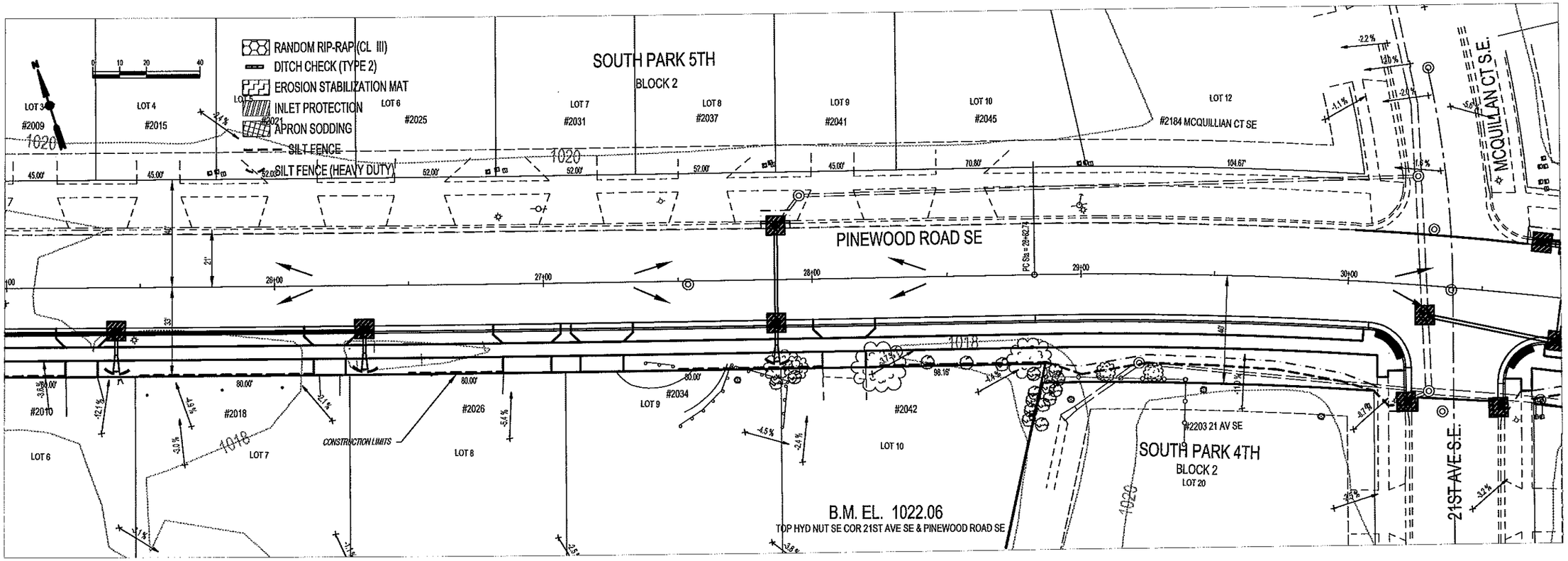
City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2460
FAX: (507) 328-2401

Title: EROSION CONTROL

Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 31 of 173 Sheets





Revision comment: —

Revised: —

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Date: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works

201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2400
FAX: (507) 328-2491

Title: EROSION CONTROL

Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J 7257
Sheet 32 of 173 Sheets

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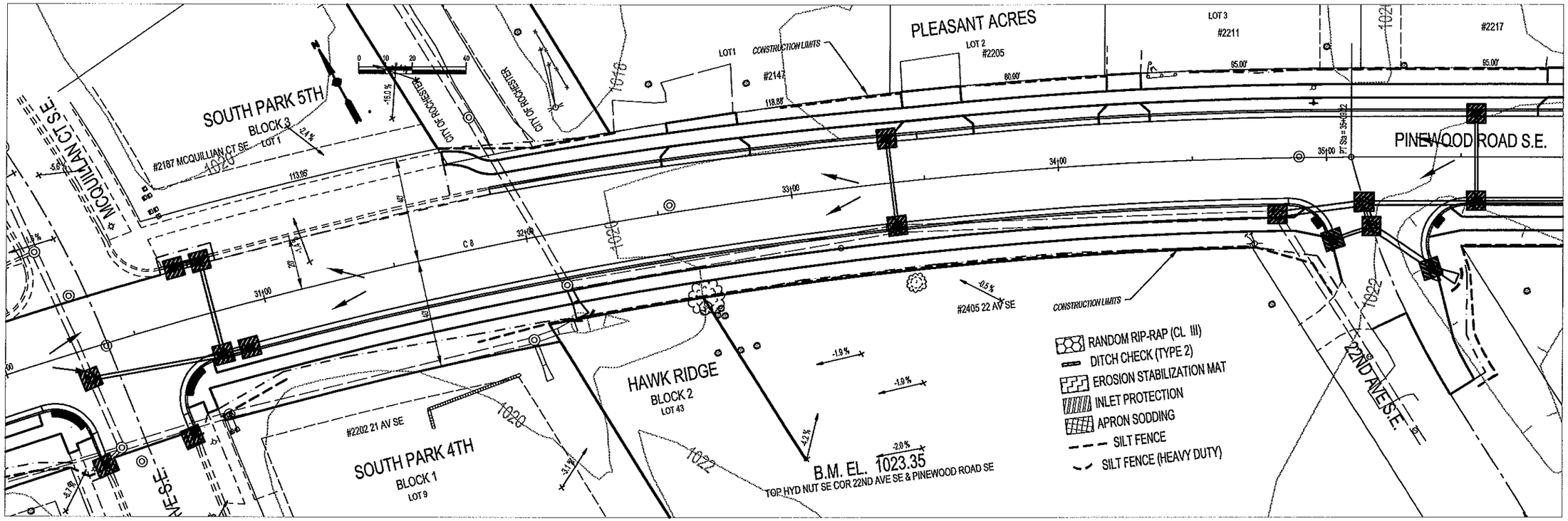

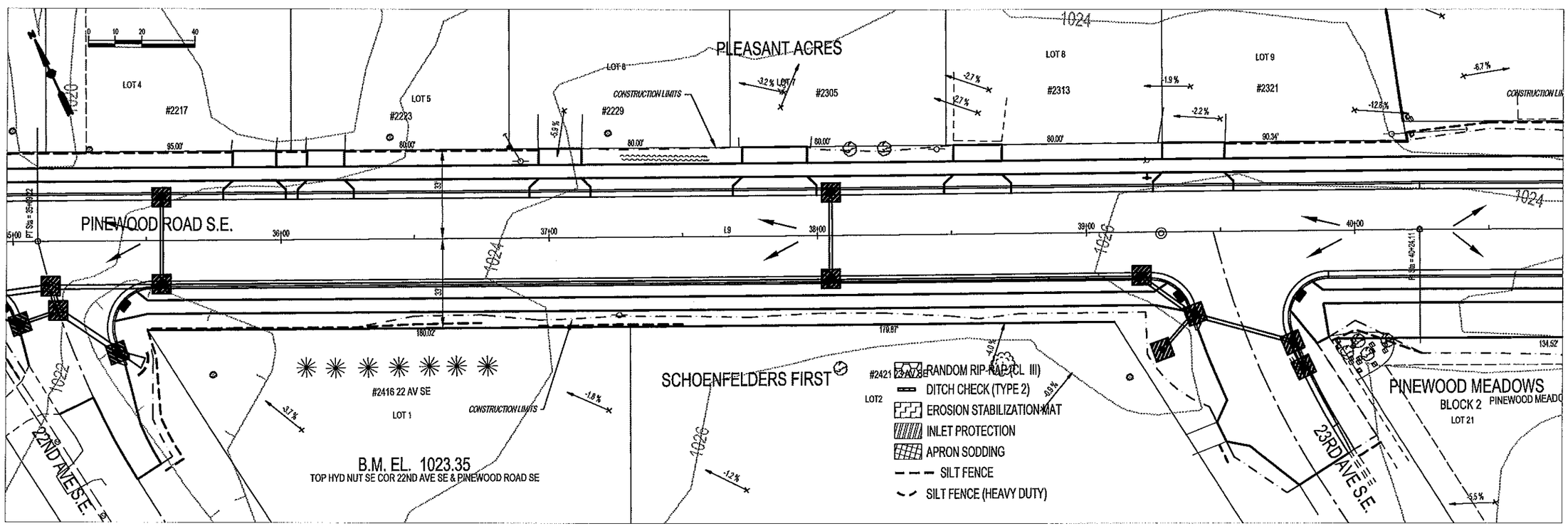

Revision comment: —
Revised: —
Creation Date:

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Date: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2400
FAX: (507) 328-2401

Title: EROSION CONTROL

Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 33 of 173 Sheets

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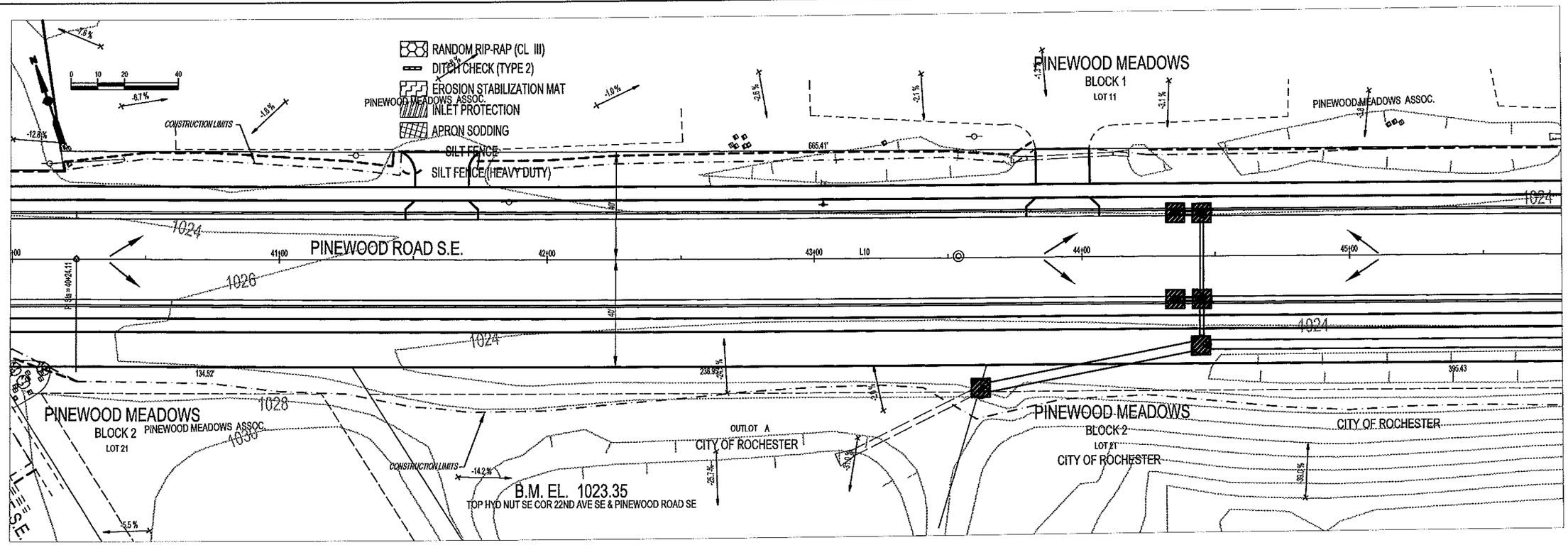

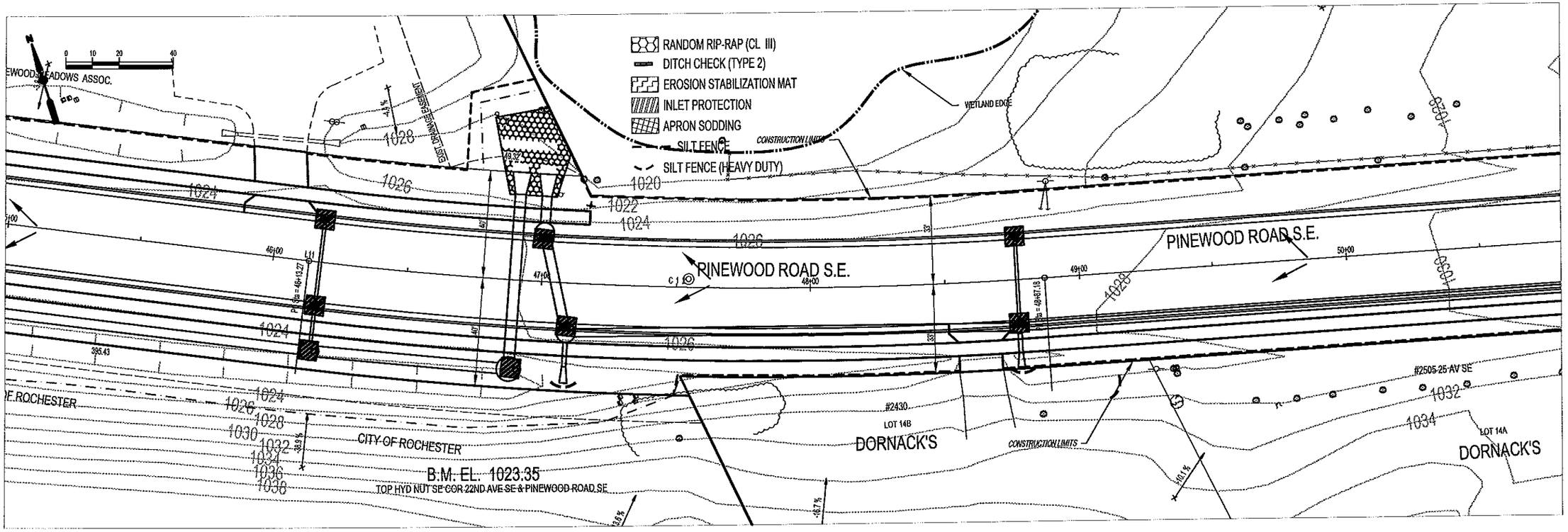

Revision comment: —
Reviewed: —
Creation Date:

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Date: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2459
FAX: (507) 328-2401

Title: EROSION CONTROL
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 34 of 173 Sheets

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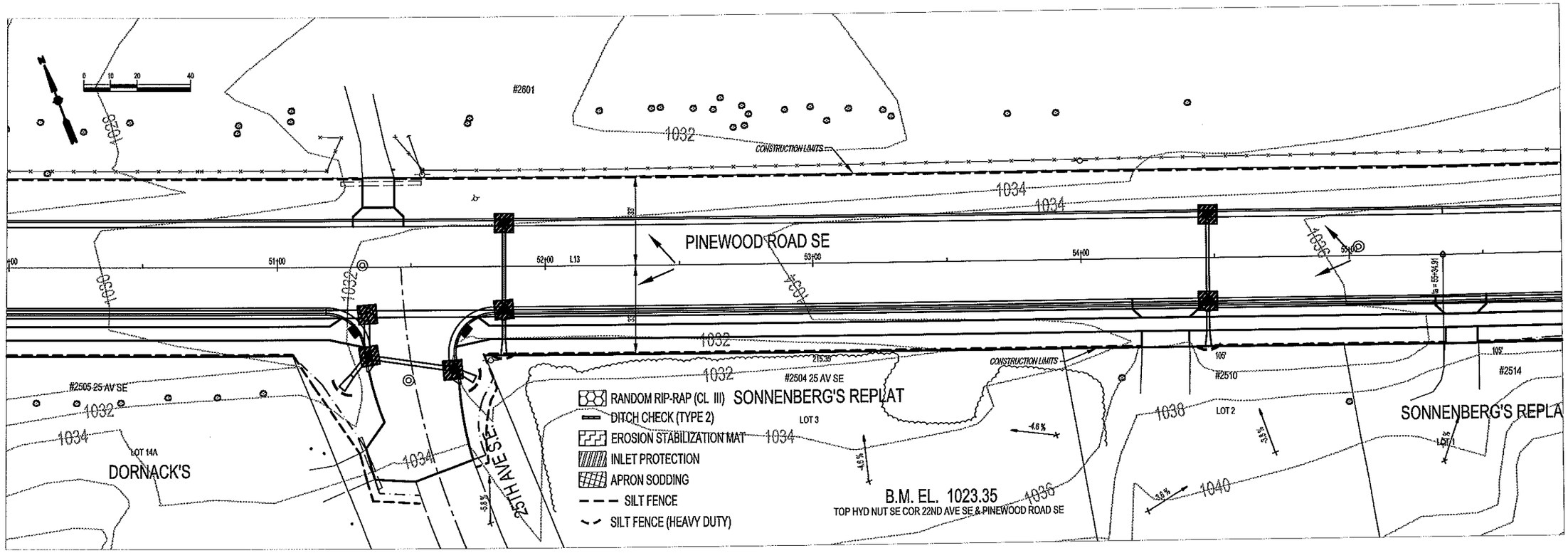

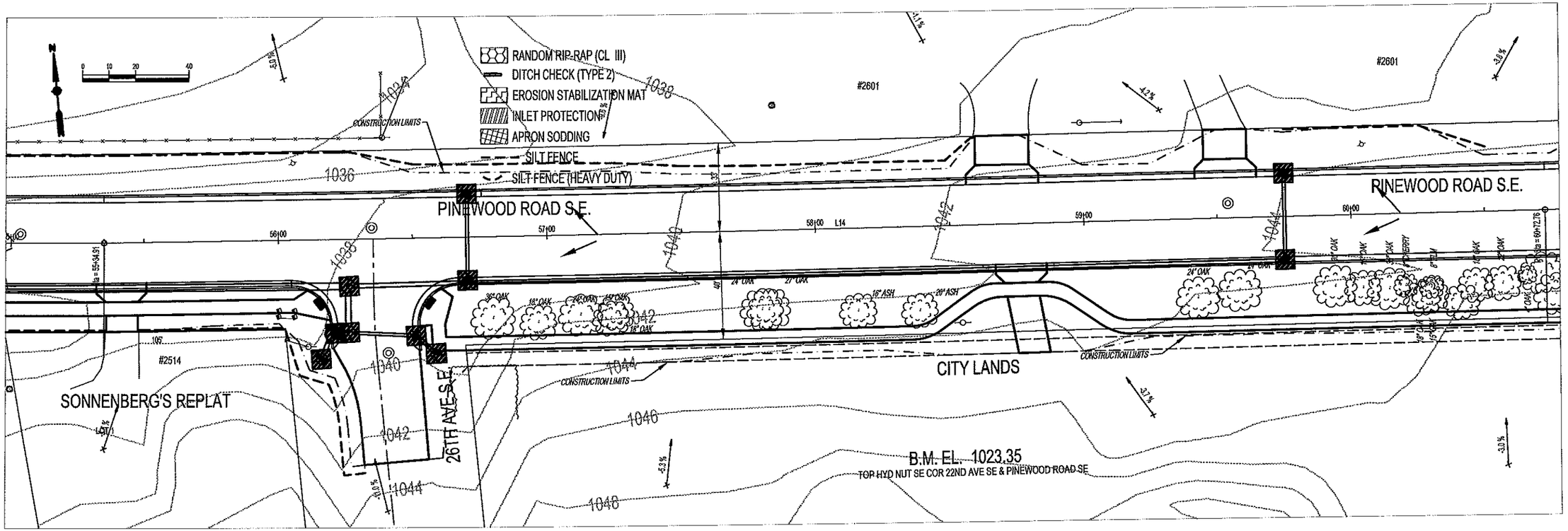

Revision number: –
Revised: –
Creation Date:

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Date: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
FAX: (507) 328-2401

Title: EROSION CONTROL

Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
Sheet 35 of 173 Sheets

J7257

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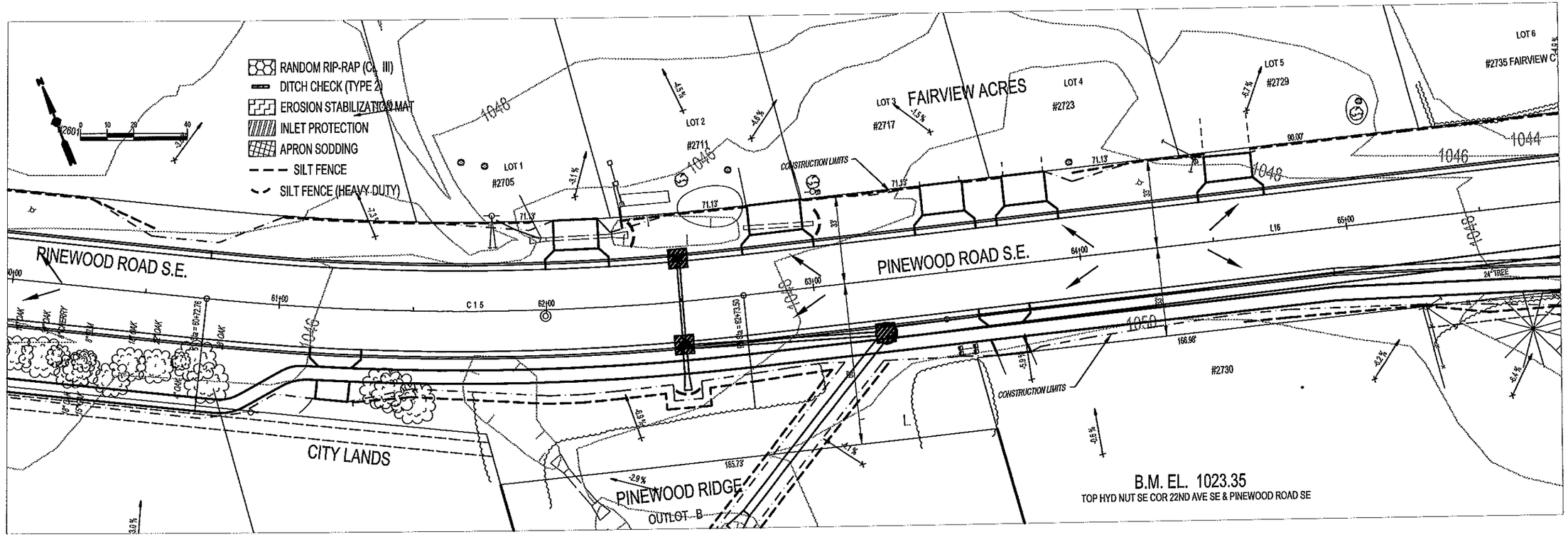

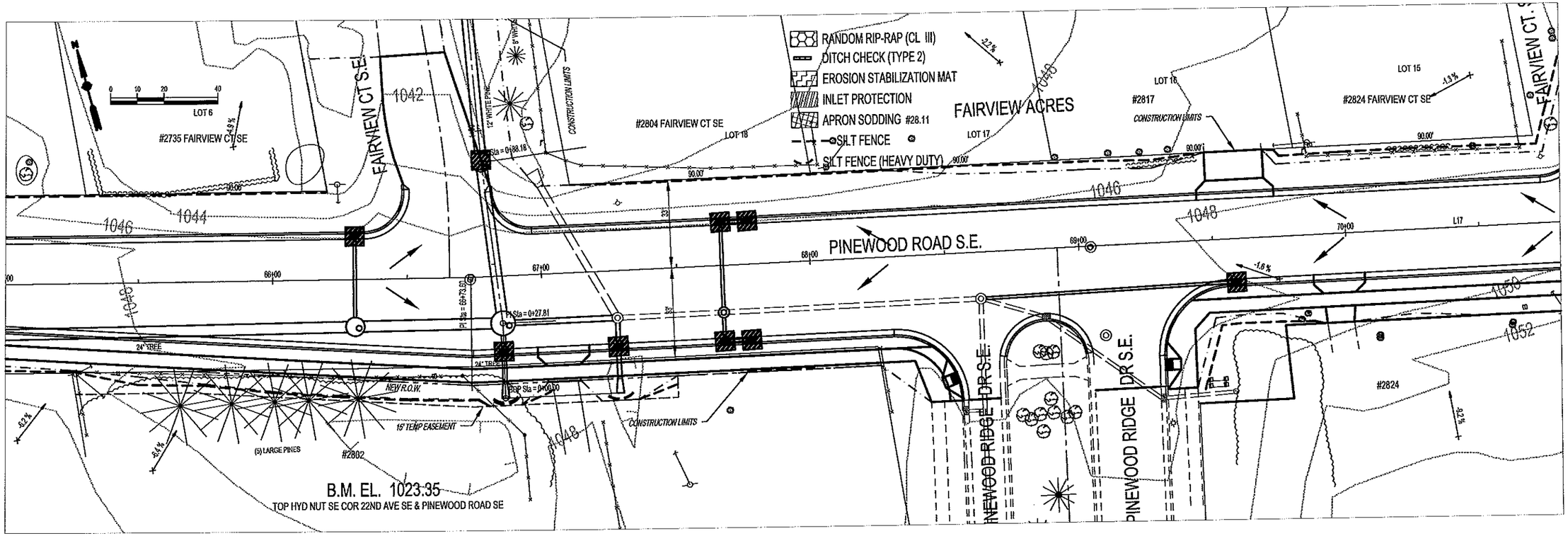

Revision comment:
Revised: –
Creation Date: –

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Date: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2400
FAX: (507) 328-2401

Title: EROSION CONTROL

Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 36 of 173 Sheets

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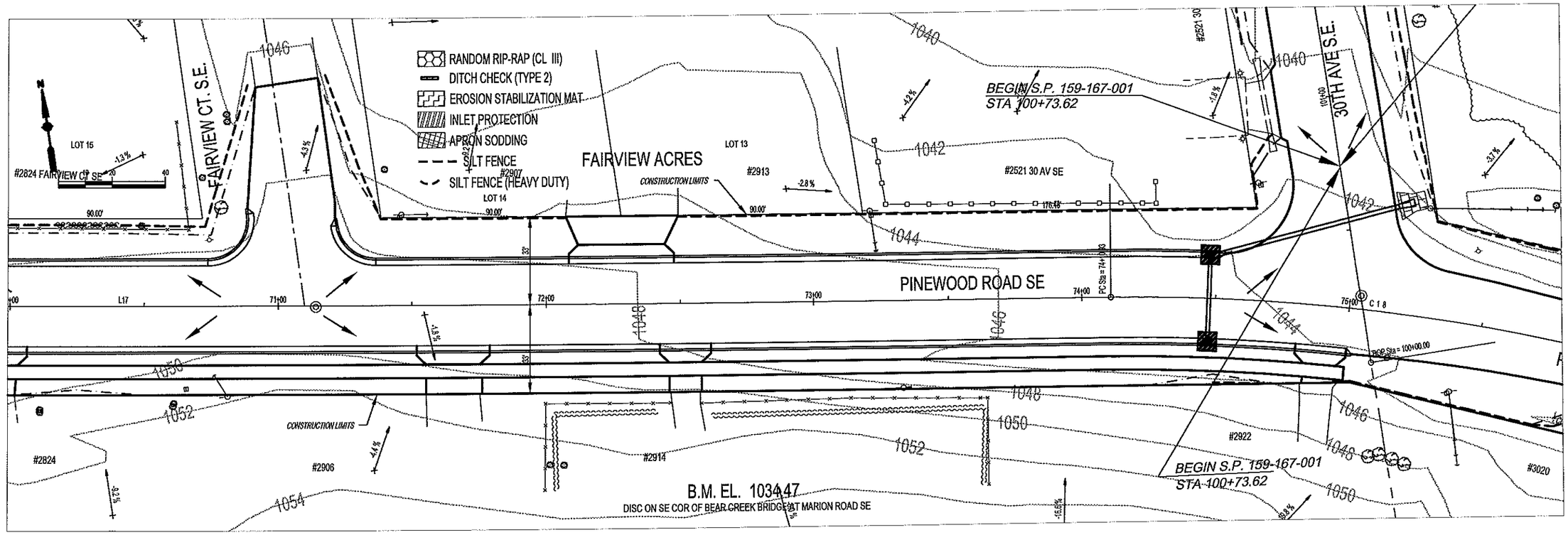
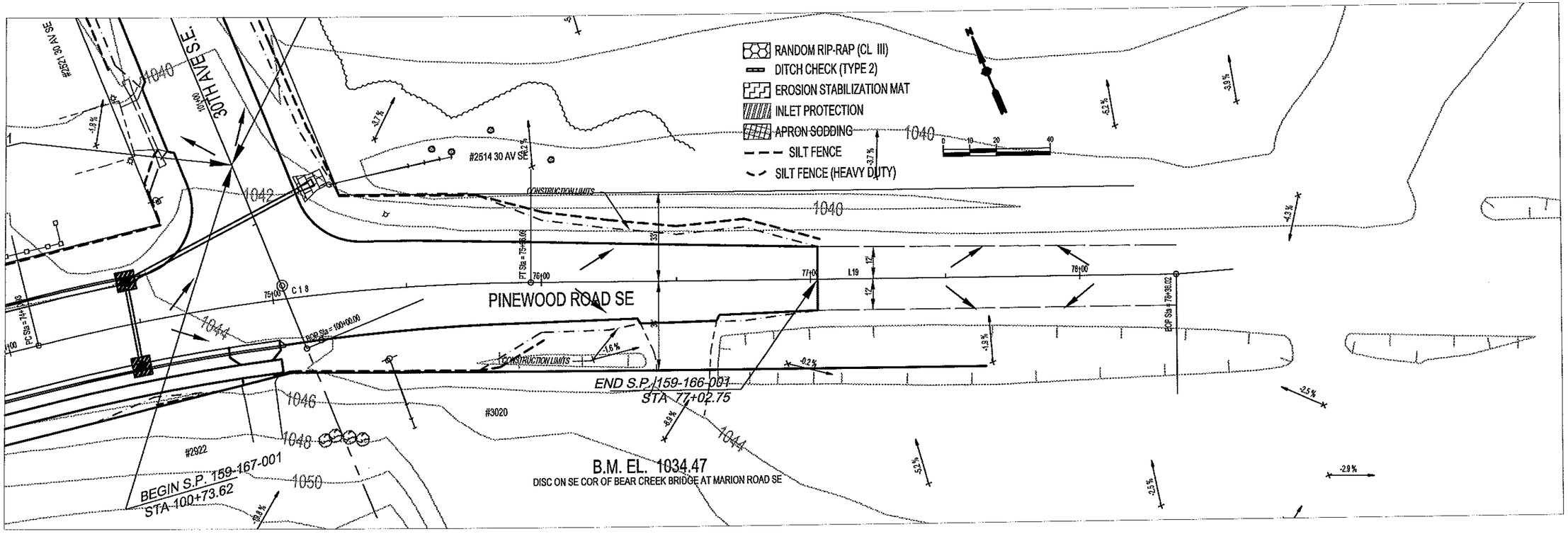




Revision comment:

Revision: 1

Creation Date:

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.

Russell J. Klein Date: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works

201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
FAX: (507) 328-2401

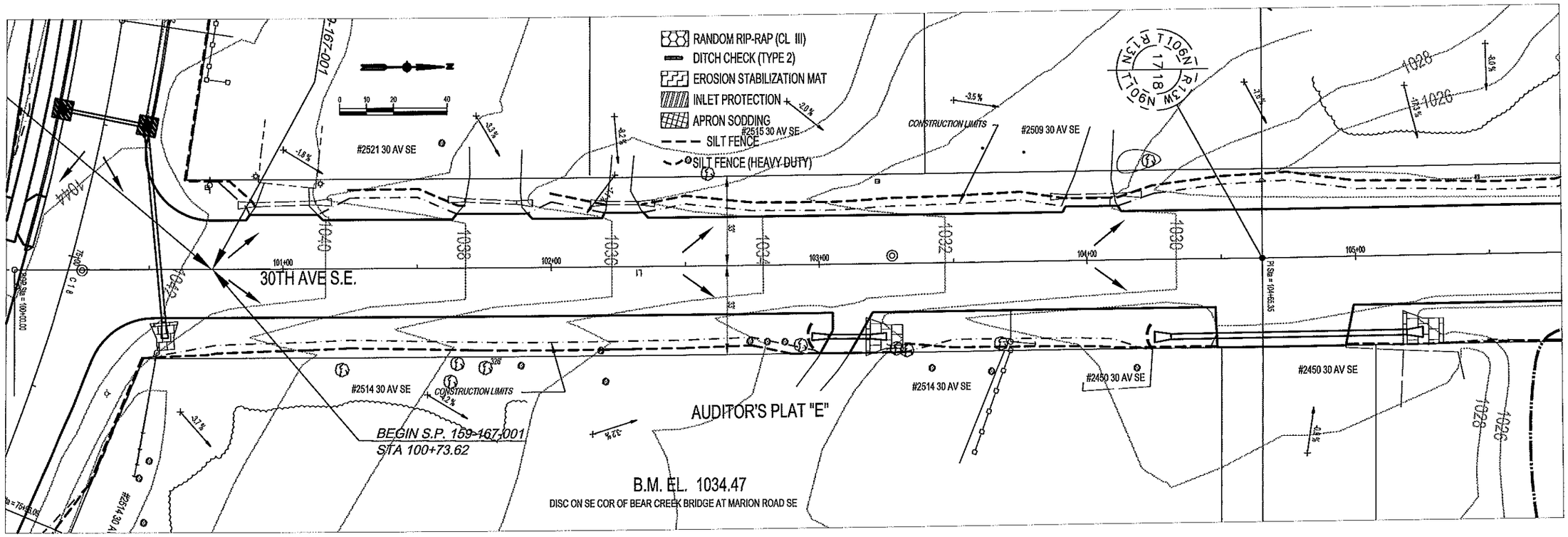
Title:

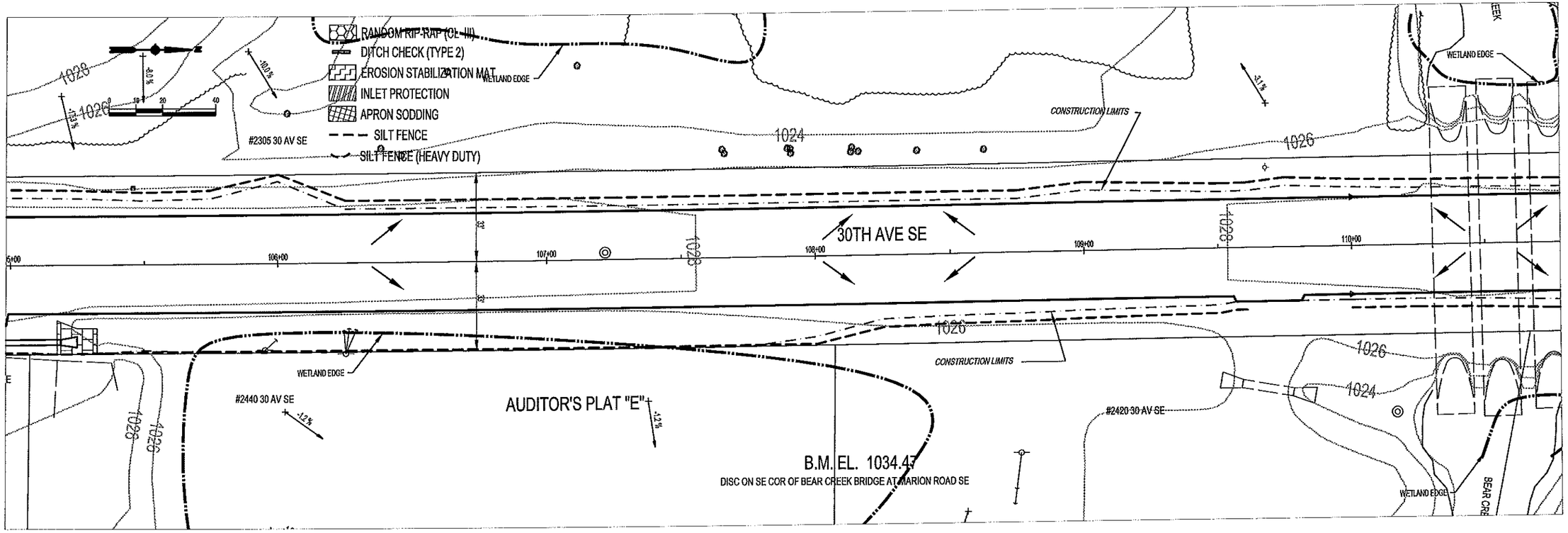
EROSION CONTROL

Designer: RLW

Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18 J7257
Sheet 37 of 173 Sheets





Revision comment: —
Revised: —
Creation Date:

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: 07/27/11 Reg. No. 24657

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2400
FAX: (507) 328-4401

EROSION CONTROL

Title:
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 38 of 173 Sheets

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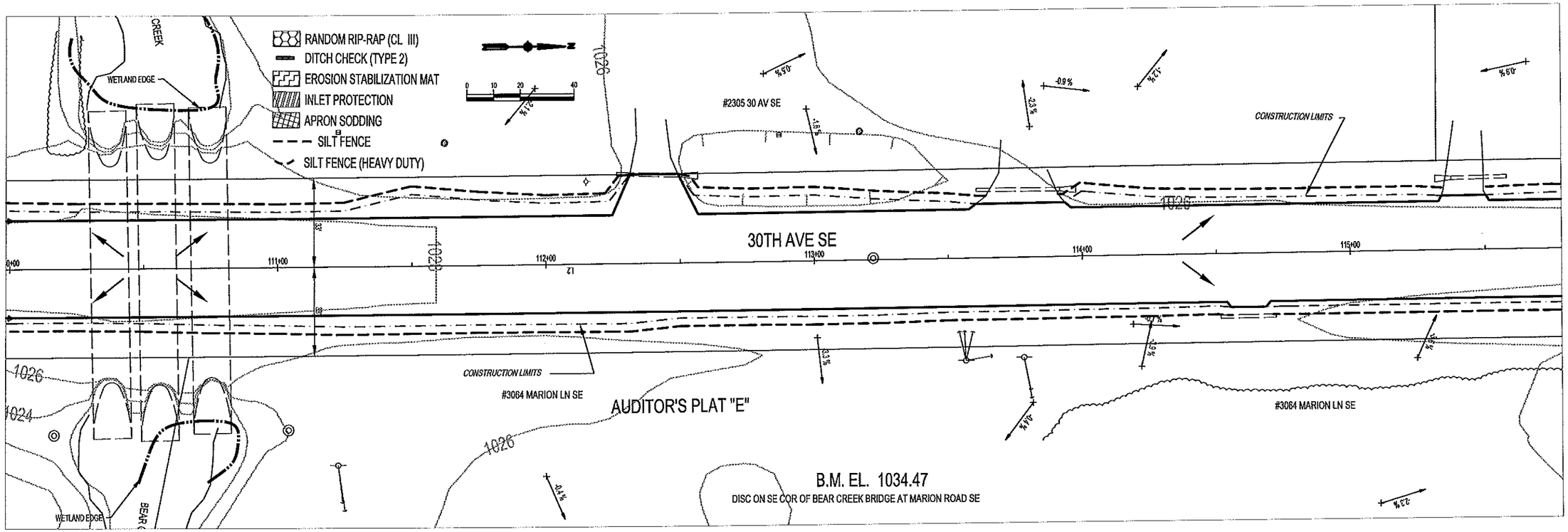

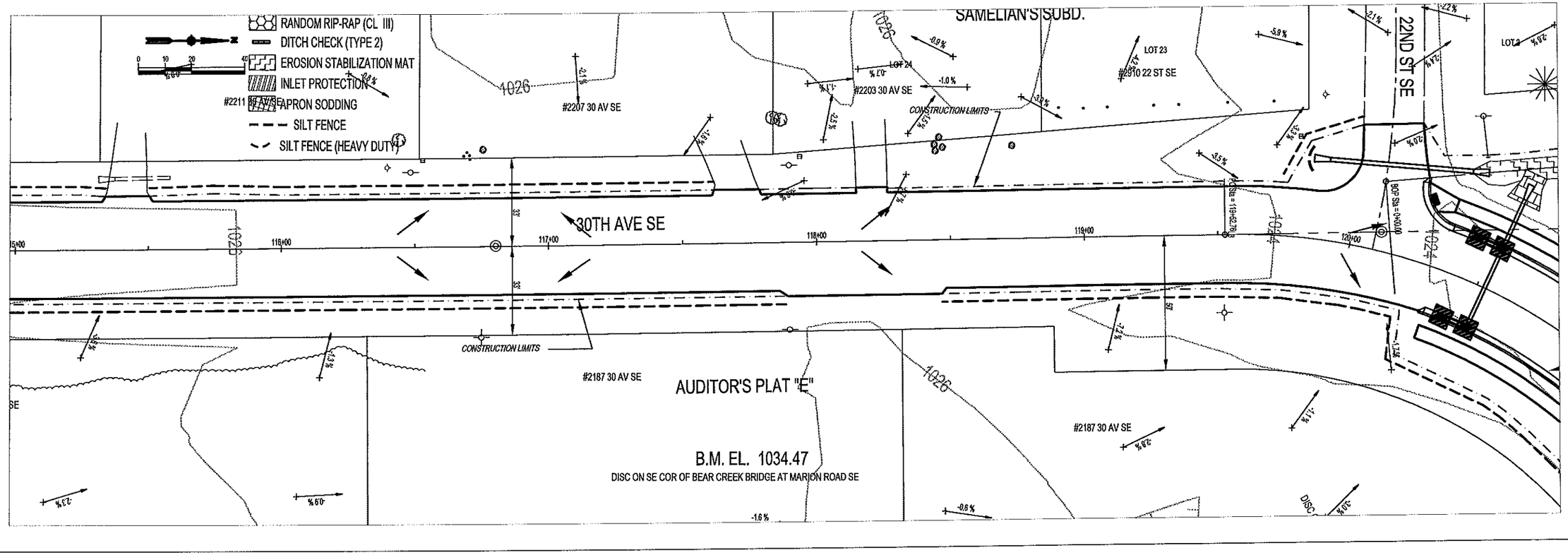

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Date: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-4600
FAX: (507) 328-4601

Title: EROSION CONTROL

Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
Sheet 39 of 173 Sheets
J7257

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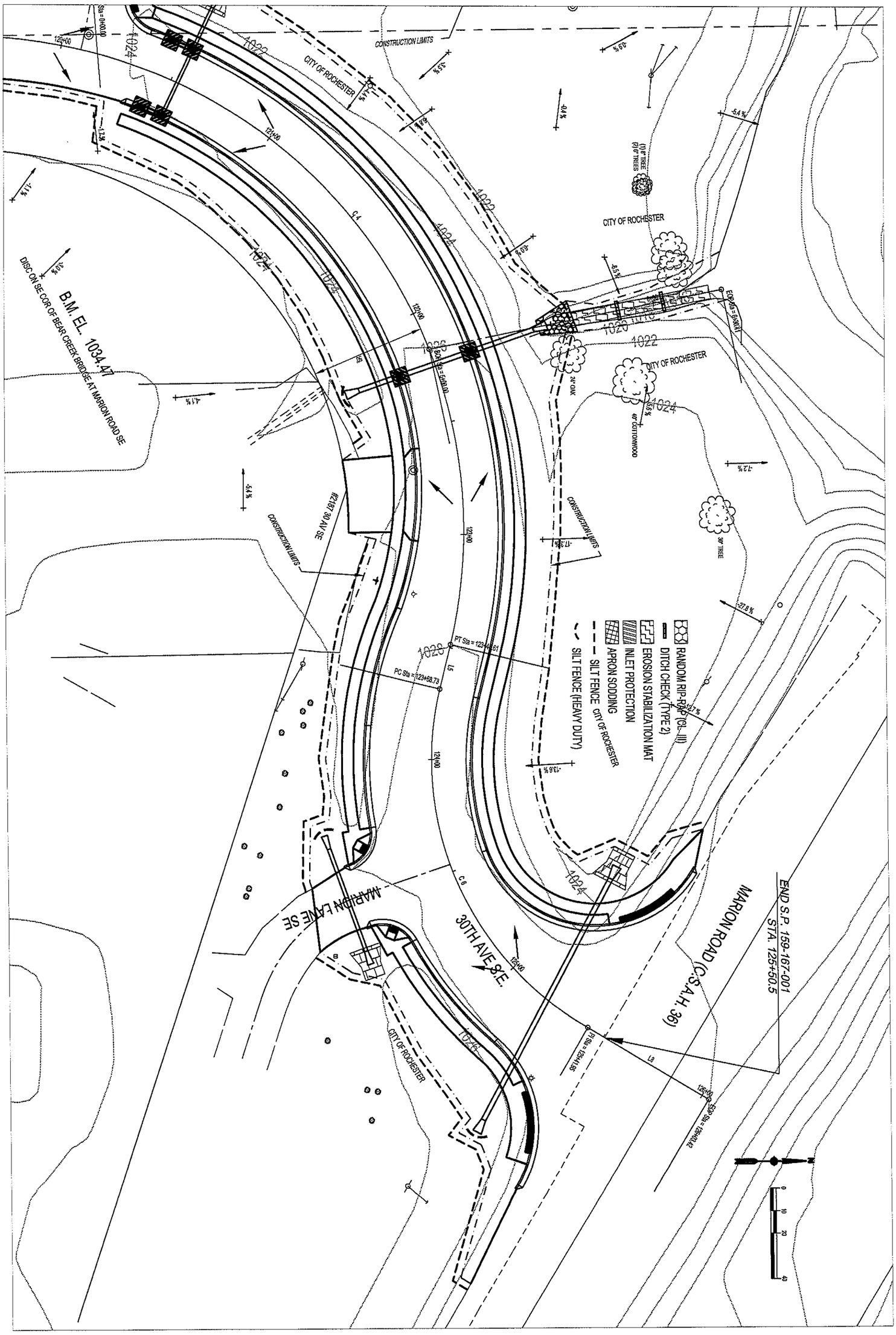

S.P. No. 159-166-001			
S.P. No. 159-167-001	Designer: RLW	Title:	City of Rochester, Minnesota Department Of Public Works
Project No. M7-18 J7257	Checker: RJK	EROSION CONTROL	201 4th Street S.E. Rochester, MN 55904 Phone: (507) 328-2450 FAX: (507) 328-2401
Sheet 40 of 173 Sheets			

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Creation Date:

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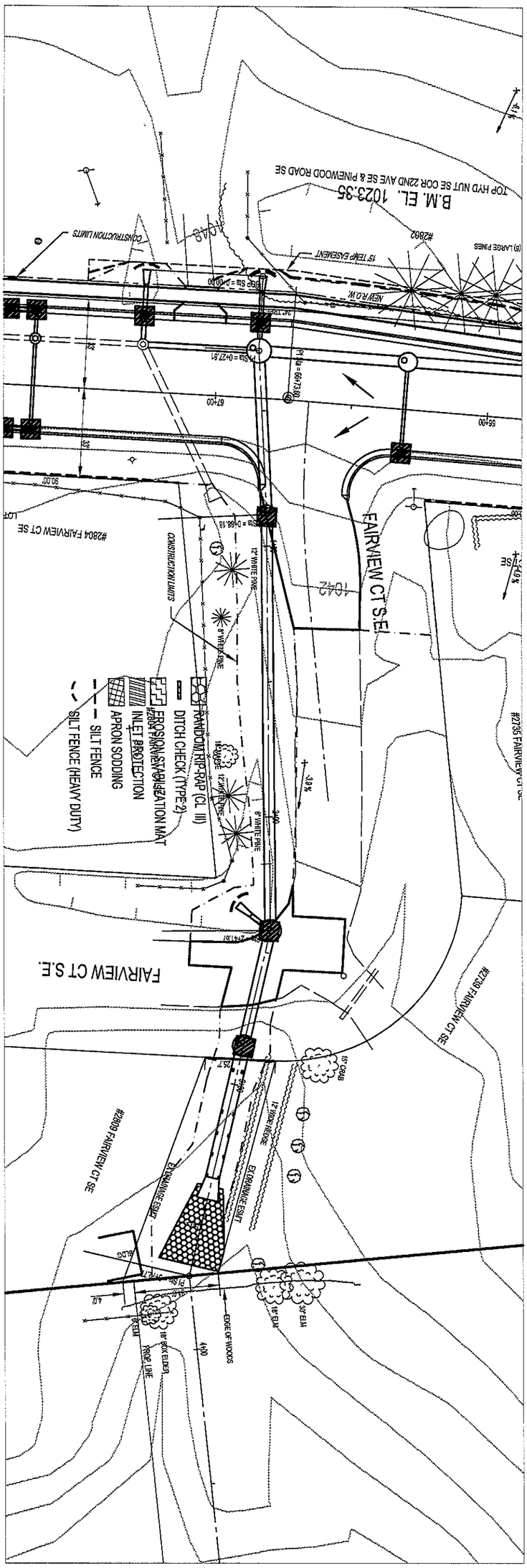
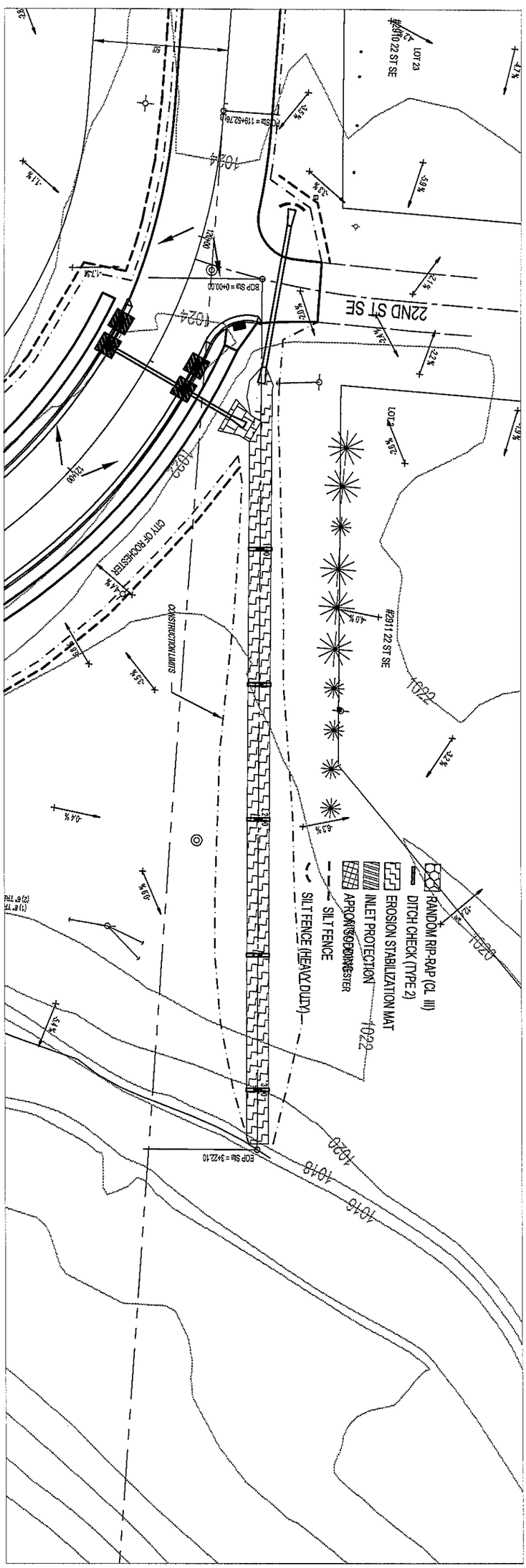
Russell J. Klun Date: 07/27/11 Reg. No. 24667





S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18 J7257
Sheet 41 of 173 Sheets

Designer: RLW
Checker: RJK

Title: EROSION CONTROL

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
FAX: (507) 328-2401

Revised: —
Creation Date:
Revision comment: —

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Russell J. Klun Date: 07/27/11 Reg. No. 24667

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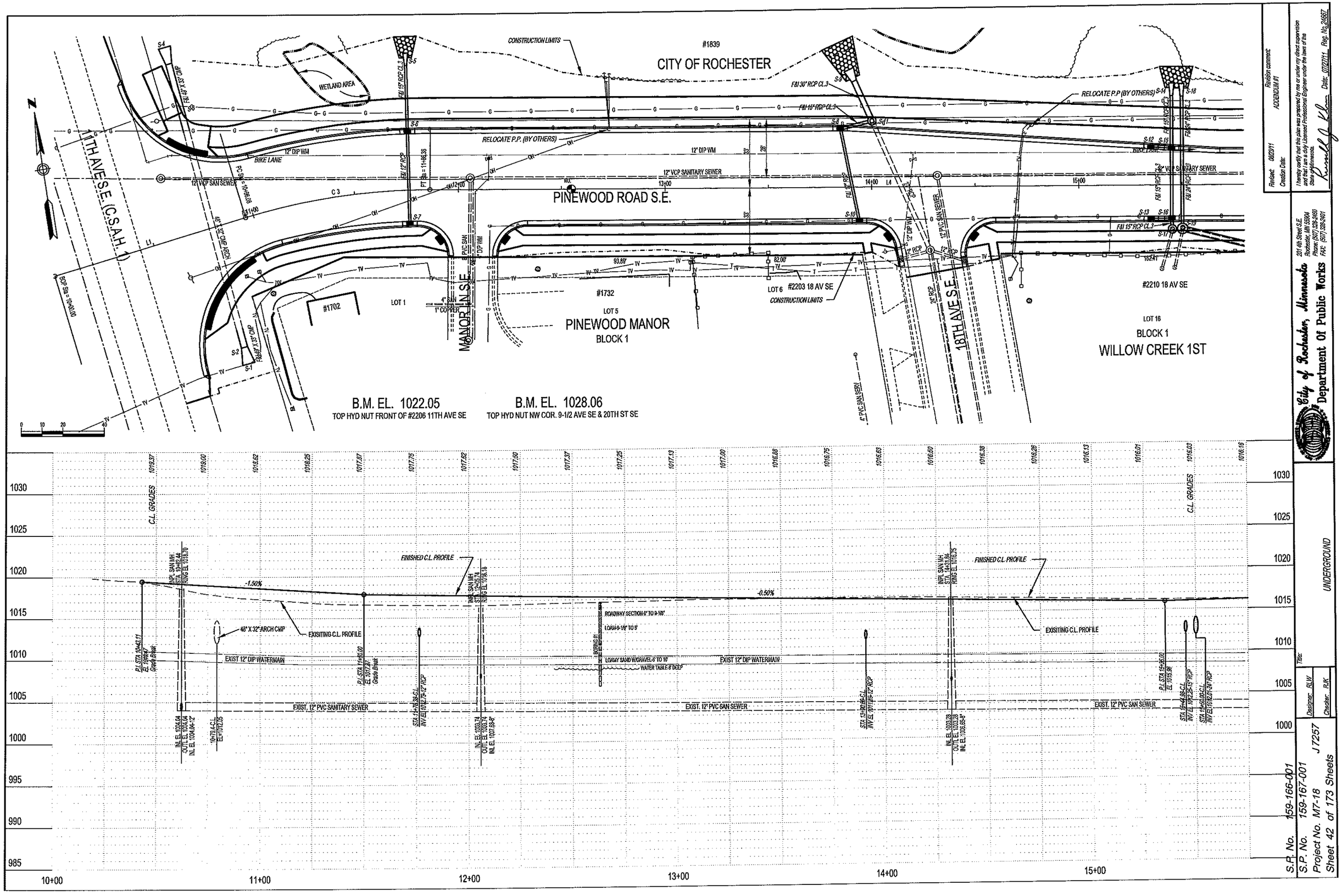

Revision comment: ADDENDUM #1
Revision#: 08/23/11
Creation Date:

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: 07/27/11 Reg. No. 21607

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-7460
FAX: (507) 328-7497

UNDERGROUND

Title:
Designer: RLW
Checker: RJK

S.R. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J 7257
Sheet 42 of 173 Sheets

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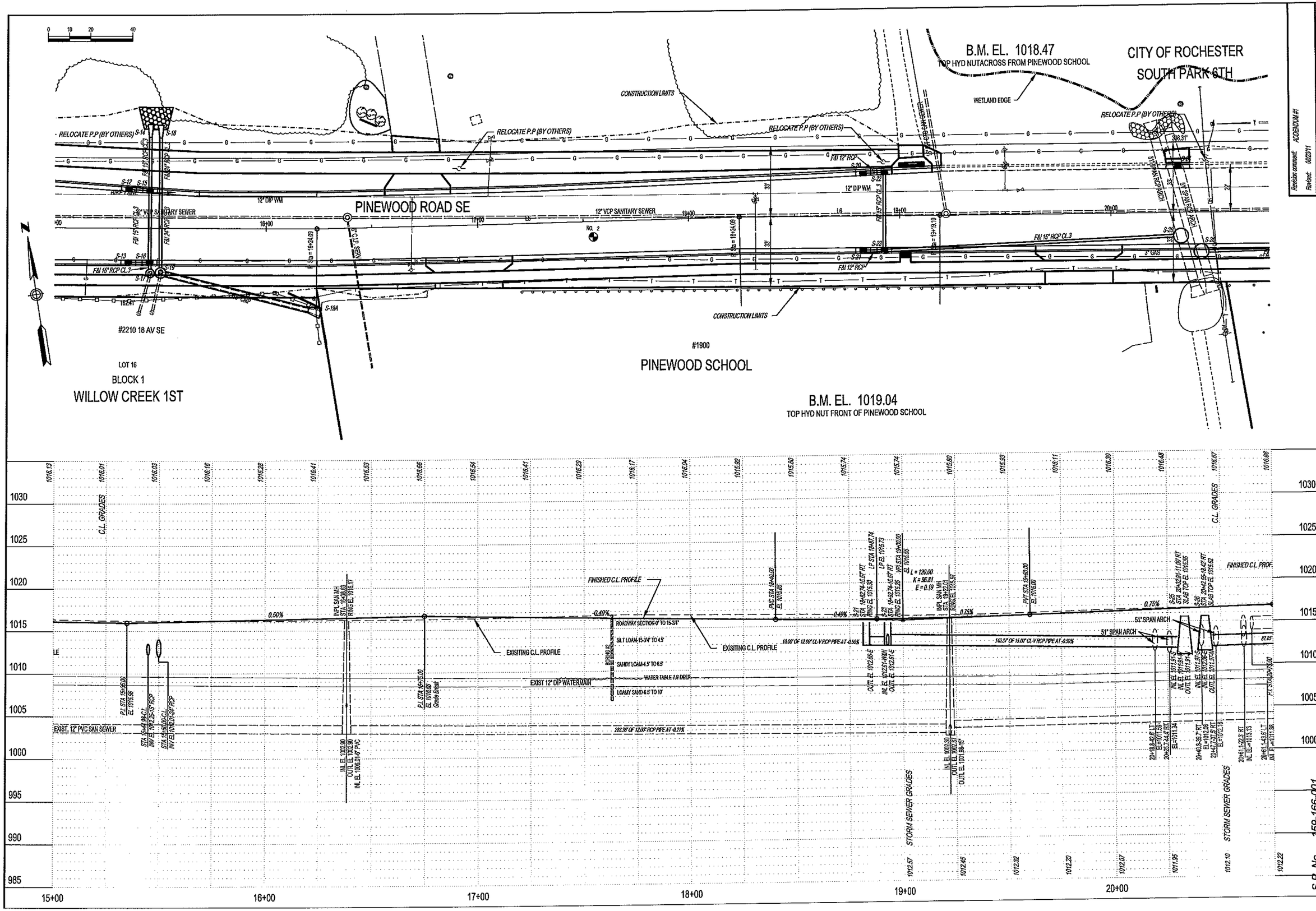

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
FAX: (507) 328-2401

Revision comment: ADDENDUM #1
Revised: 08/23/11

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: 07/27/11 Reg. No. 24697

Title:
Designer: RLW
Checker: RJK

S.R. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 43 of 173 Sheets

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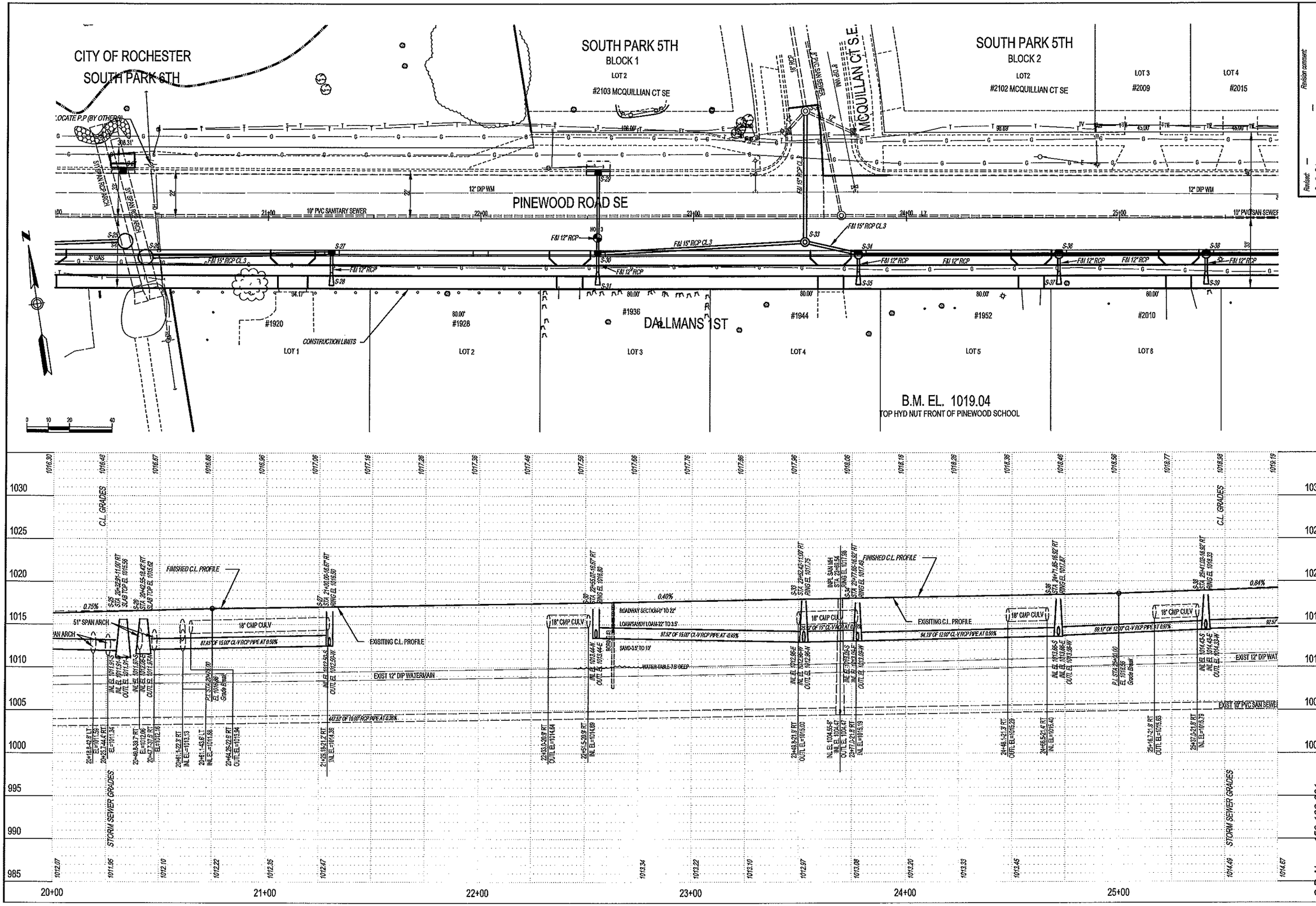

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2459
FAX: (507) 328-2401

Revision comment:
Revision#:
Creation Date:

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: 07/27/11 Reg. No. 24657

Title:
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 44 of 173 Sheets

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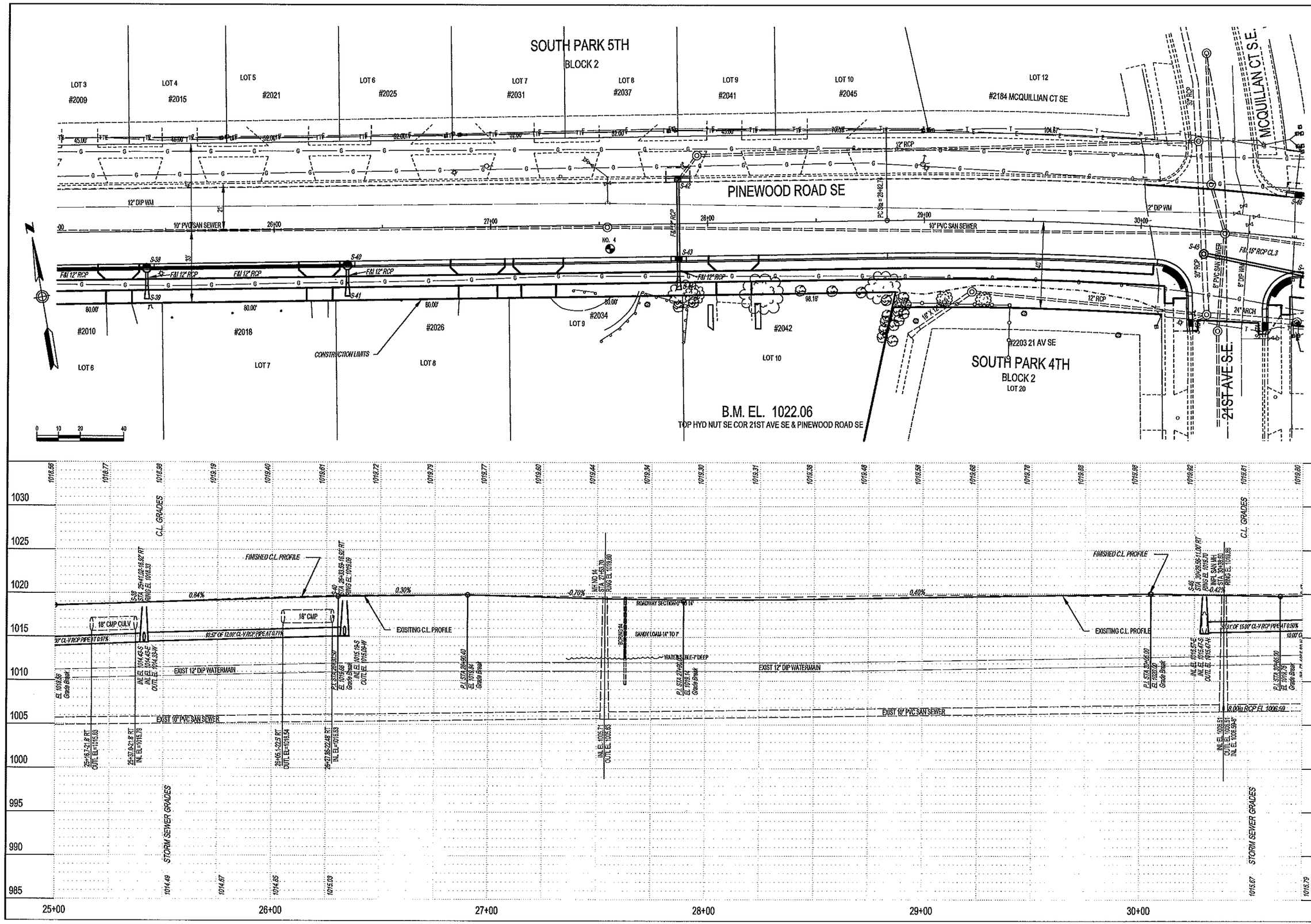

Revision comments: ADDENDUM #1
Revised: 08/23/11
Creation Date:

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: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2600
FAX: (507) 328-2401

UNDERGROUND

Title:
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J 7257
Sheet 45 of 173 Sheets

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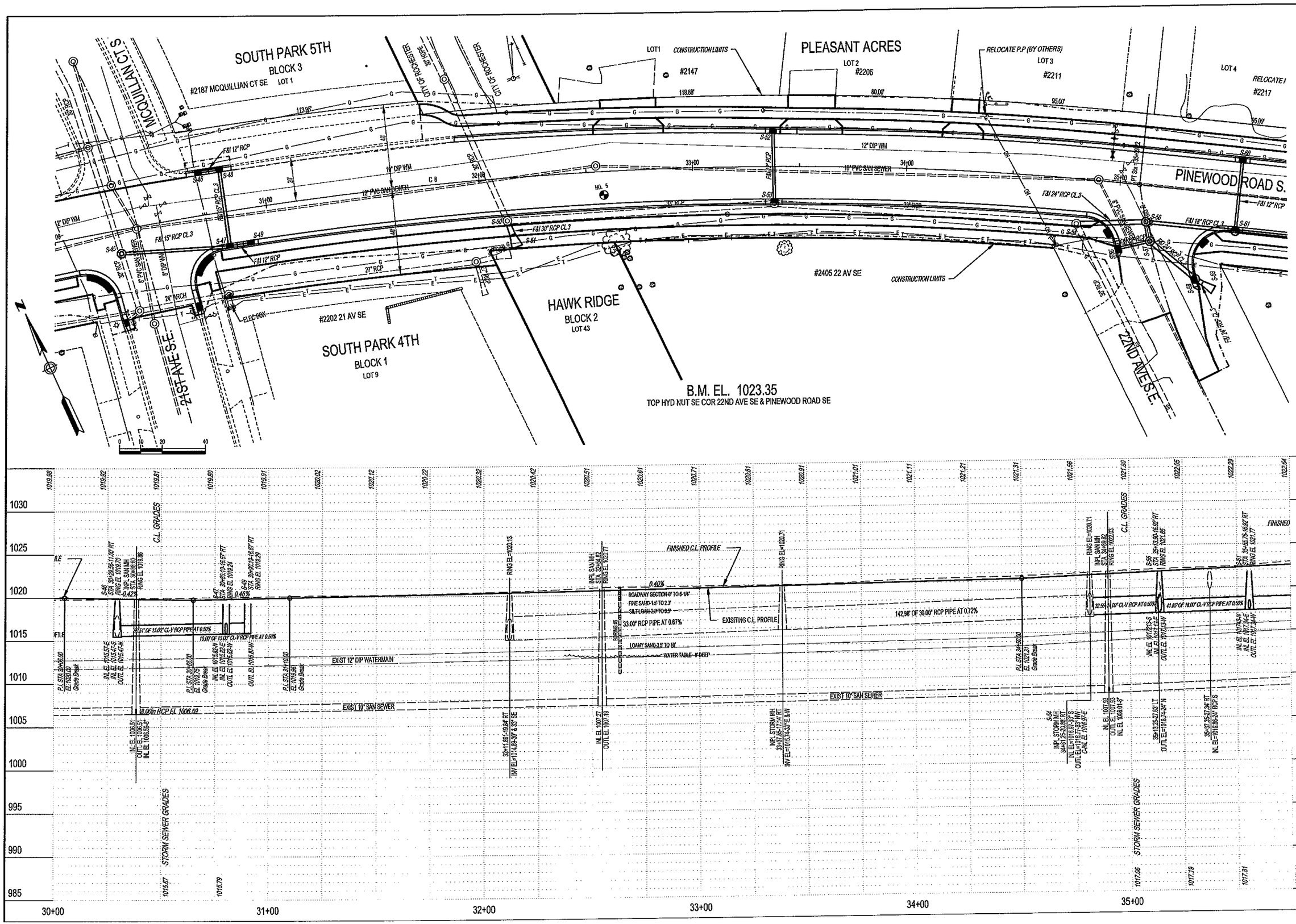

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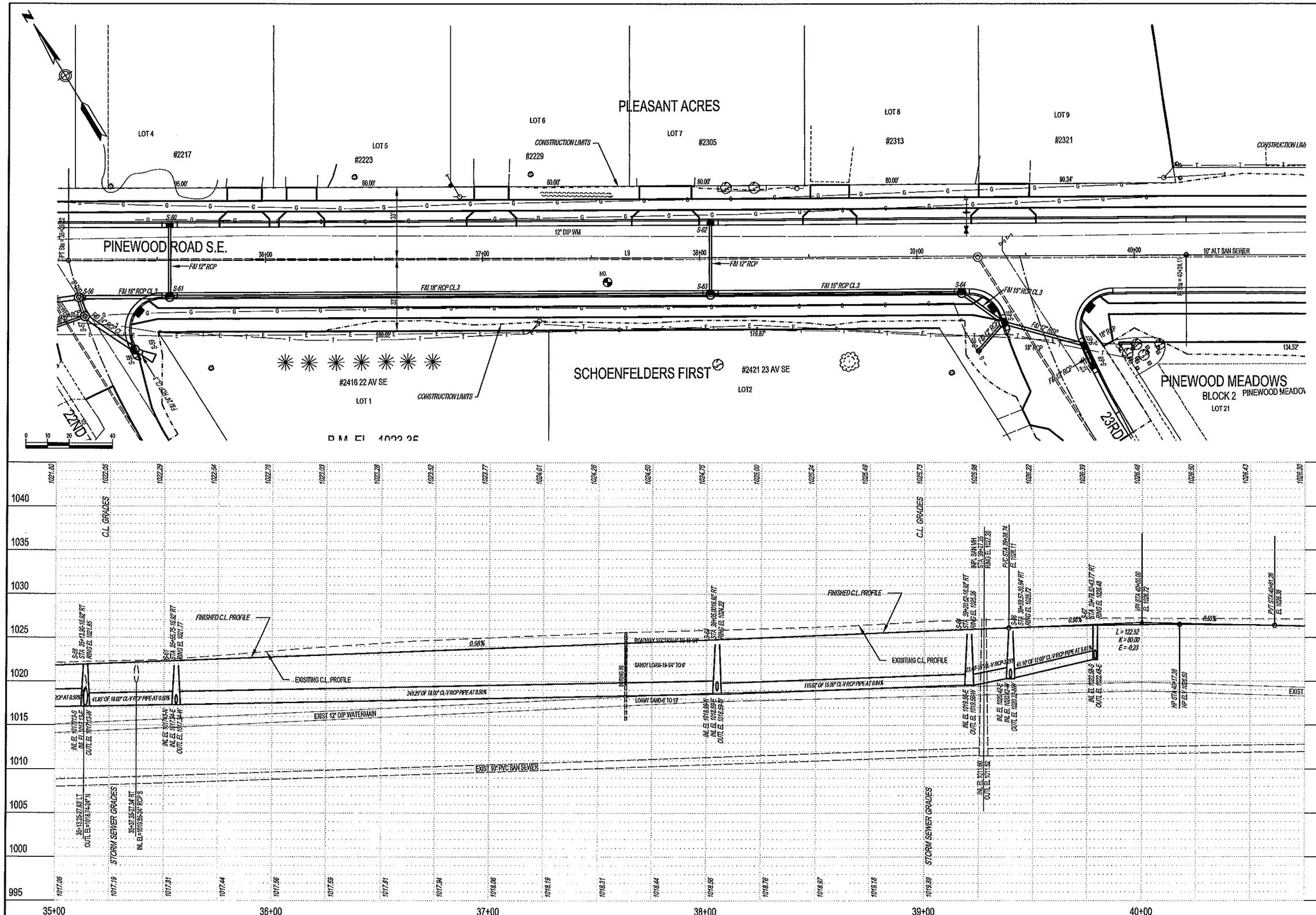

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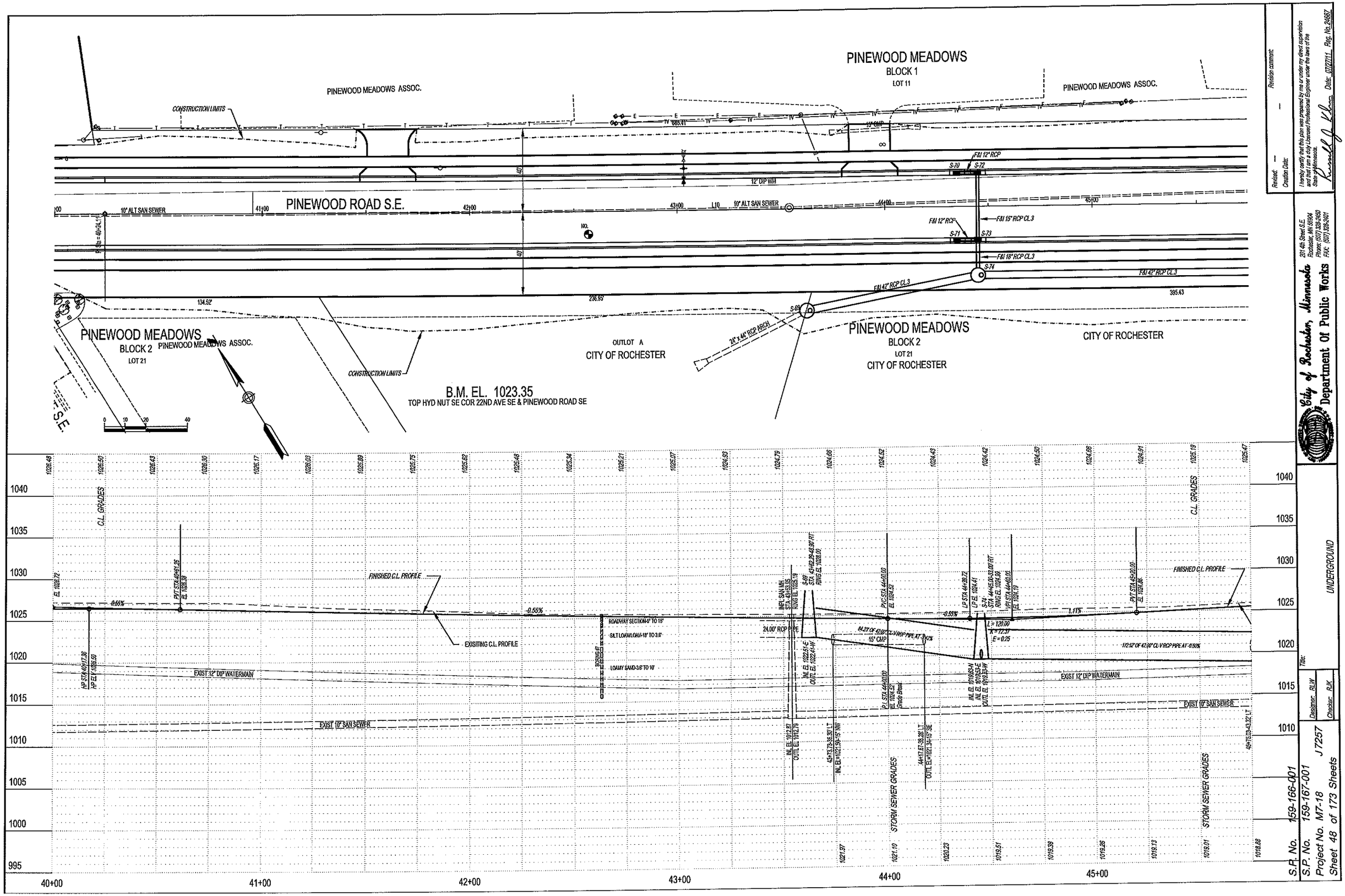

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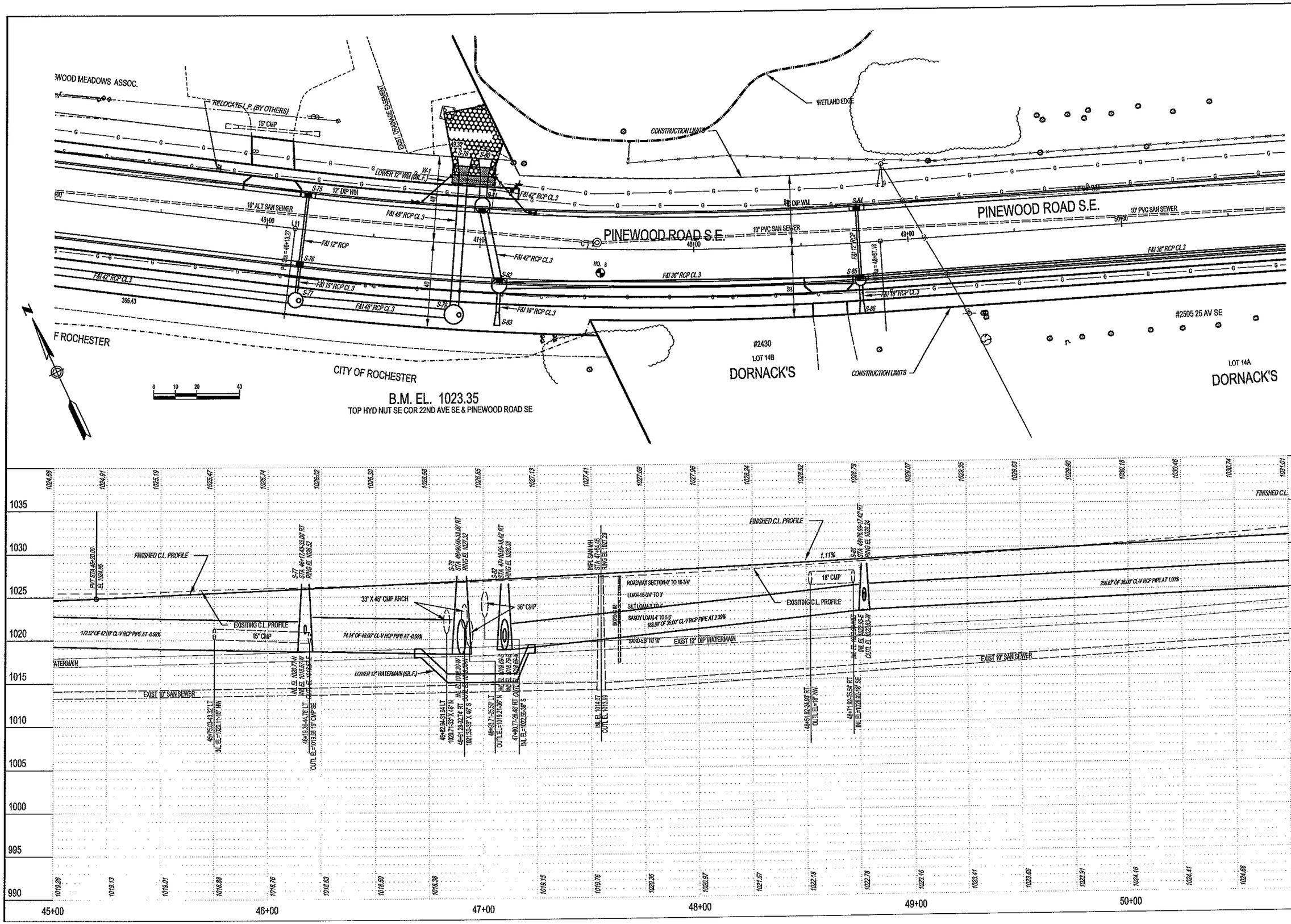


Revision comment: ADDENDUM #1
Revised: 08/23/11

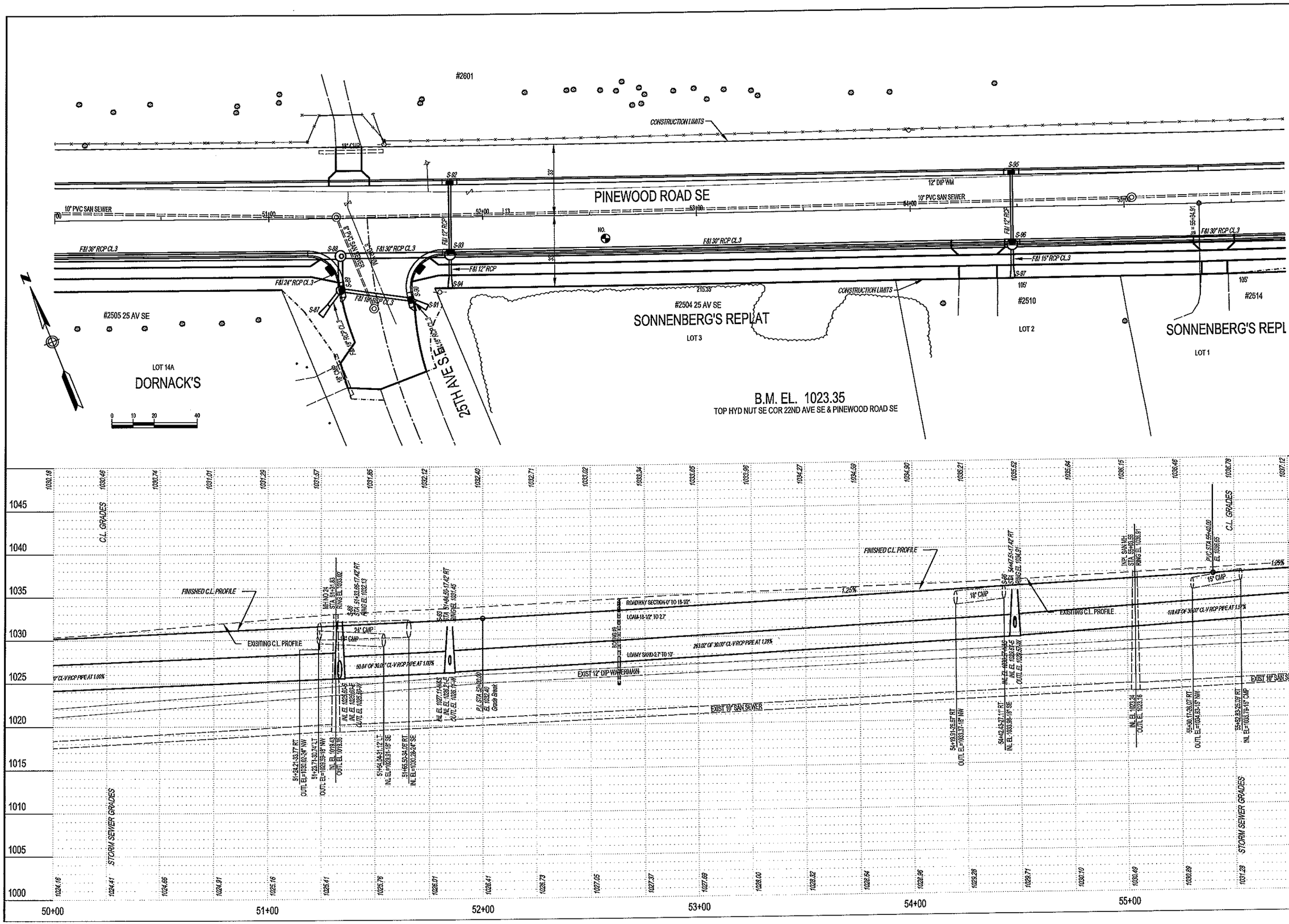
I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Date: 07/27/11 Reg. No. 24697

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
FAX: (507) 328-2401

Title: UNDERGROUND

Designer: RLW
Checker: RJK

S.R. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J 7257
Sheet 49 of 173 Sheets



Revision comment:
Revised: —
Creation Date: —

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: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-7930
FAX: (507) 328-2401

UNDERGROUND

Title:
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
Project No. M7-18
J7257
Sheet 50 of 173 Sheets

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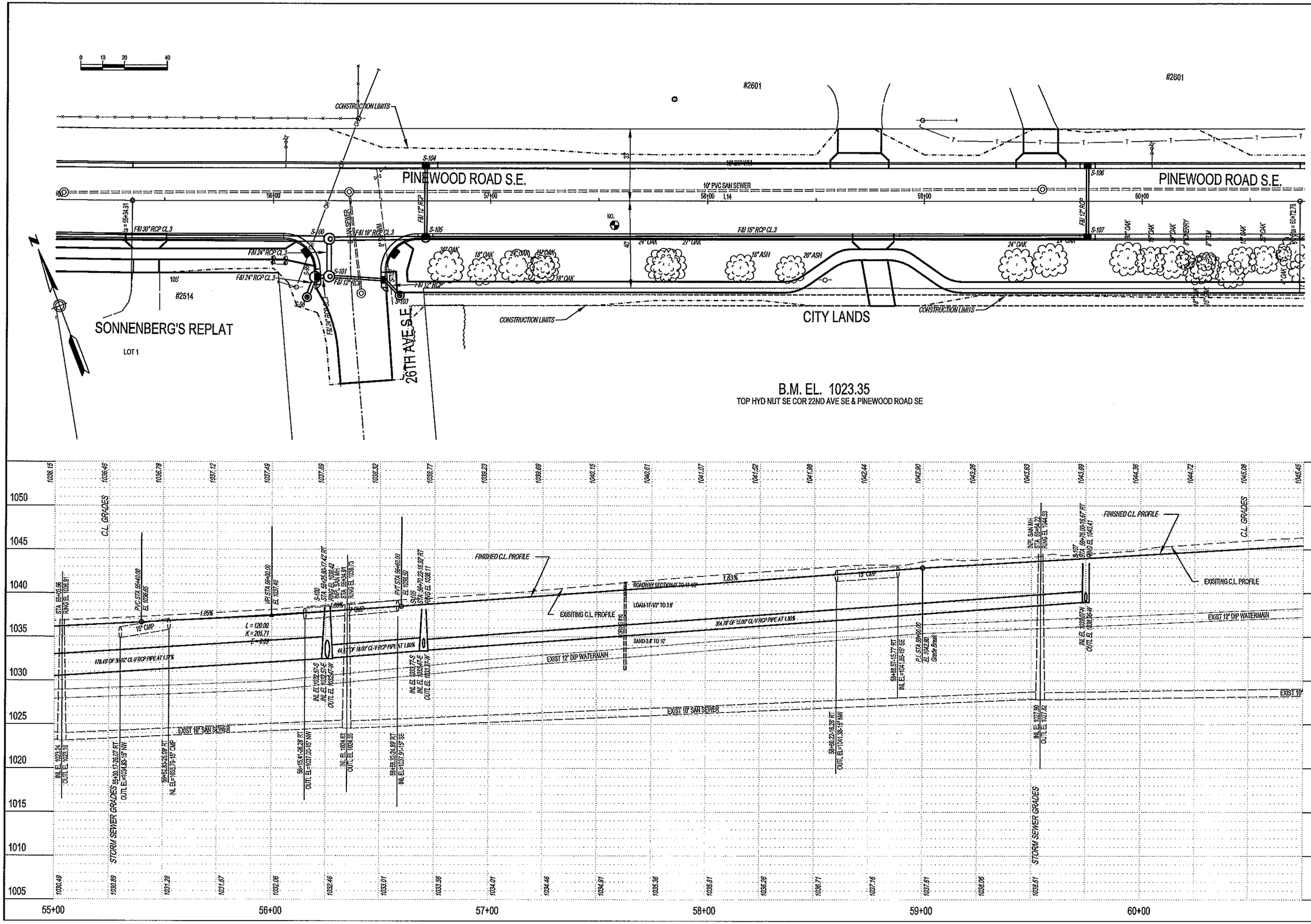

Revision comment:

Revised: –

Creation Date: –

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: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2400
FAX: (507) 328-2401

UNDERGROUND

Title:

Designer: RLW

Checker: RJK

S.P. No. 159-166-001

S.P. No. 159-167-001 J7257

Project No. M7-18

Sheet 51 of 173 Sheets

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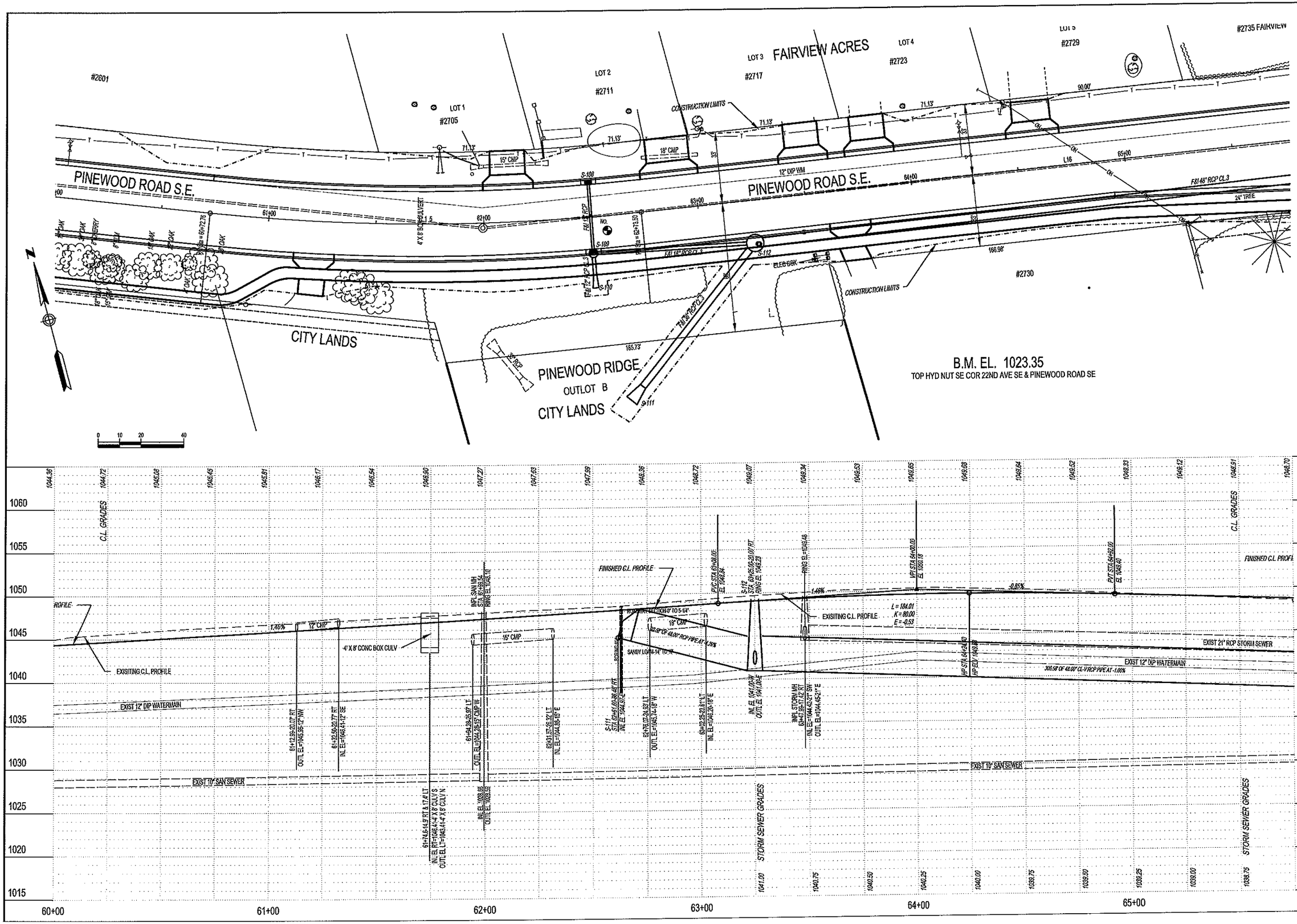

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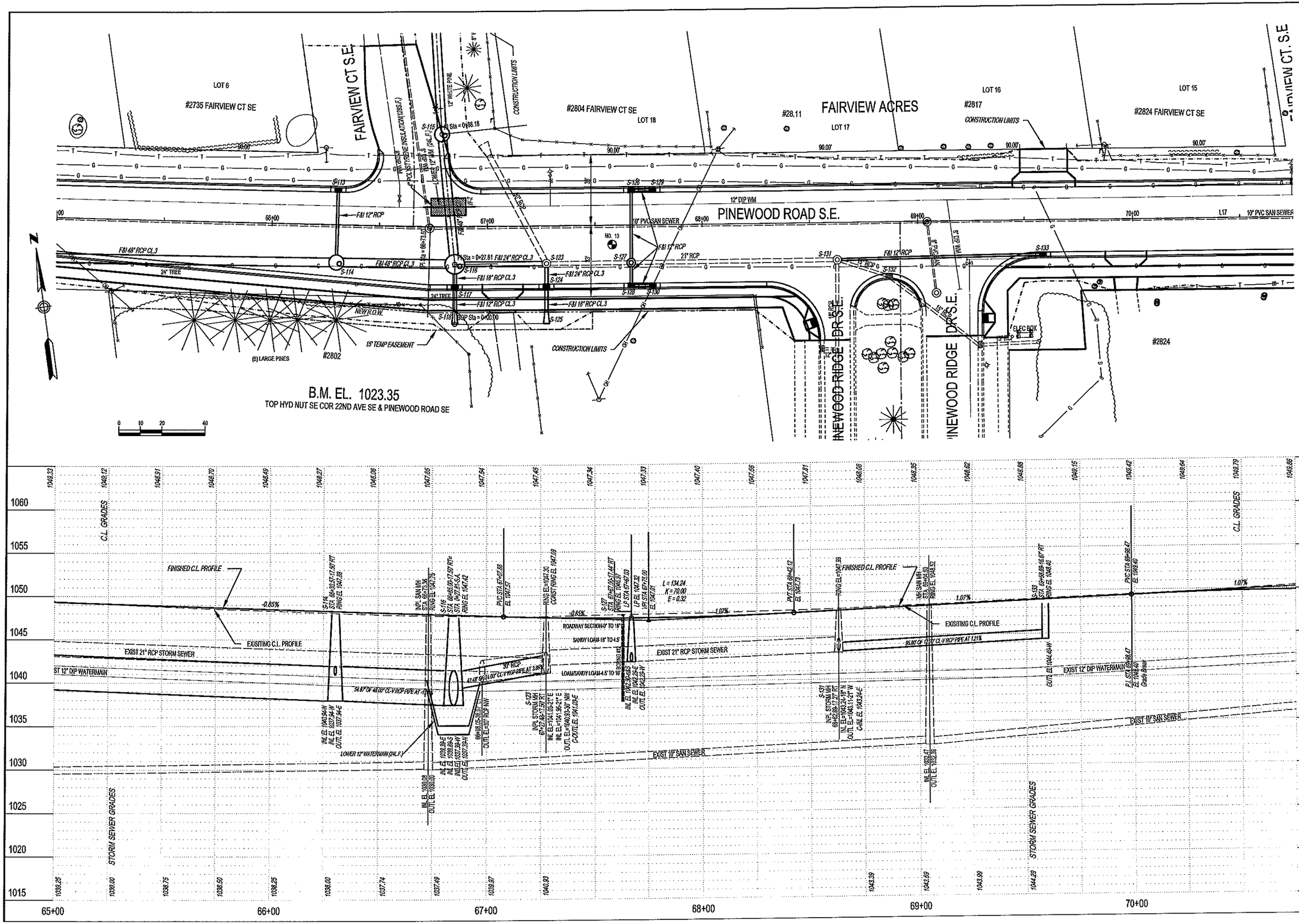

Revision comment: ADDENDUM #1
Revised: 08/23/11

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Date: 07/27/11 Reg. No. 24567

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
FAX: (507) 328-2401

UNDERGROUND

Title:
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J 7257
Sheet 53 of 173 Sheets

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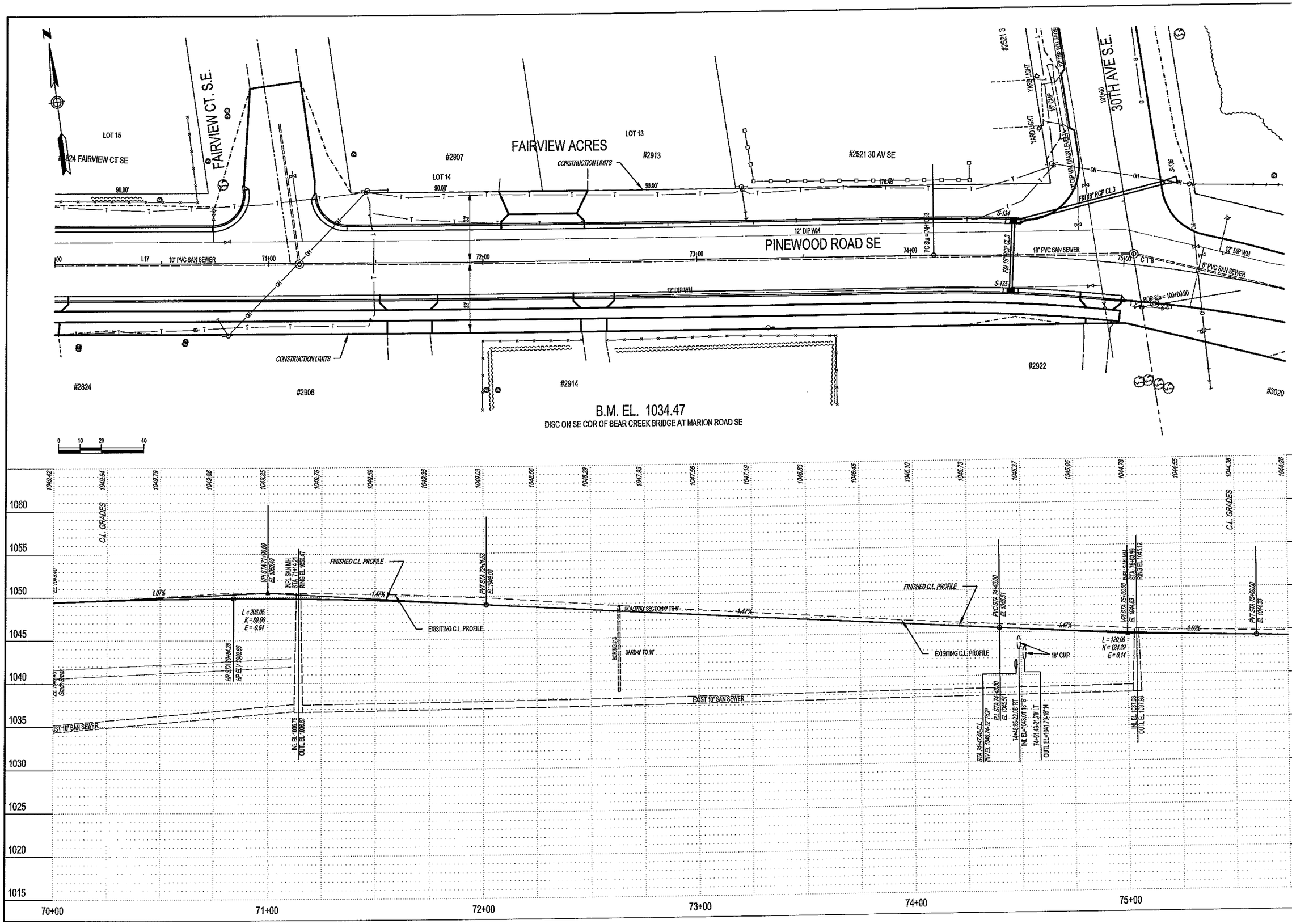

Revision comment: —
Revision#: —
Creation Date: —

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: 07/27/11 Reg. No. 24697

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2460
FAX: (507) 328-2401

Title: UNDERGROUND

Designer: RJW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 54 of 173 Sheets

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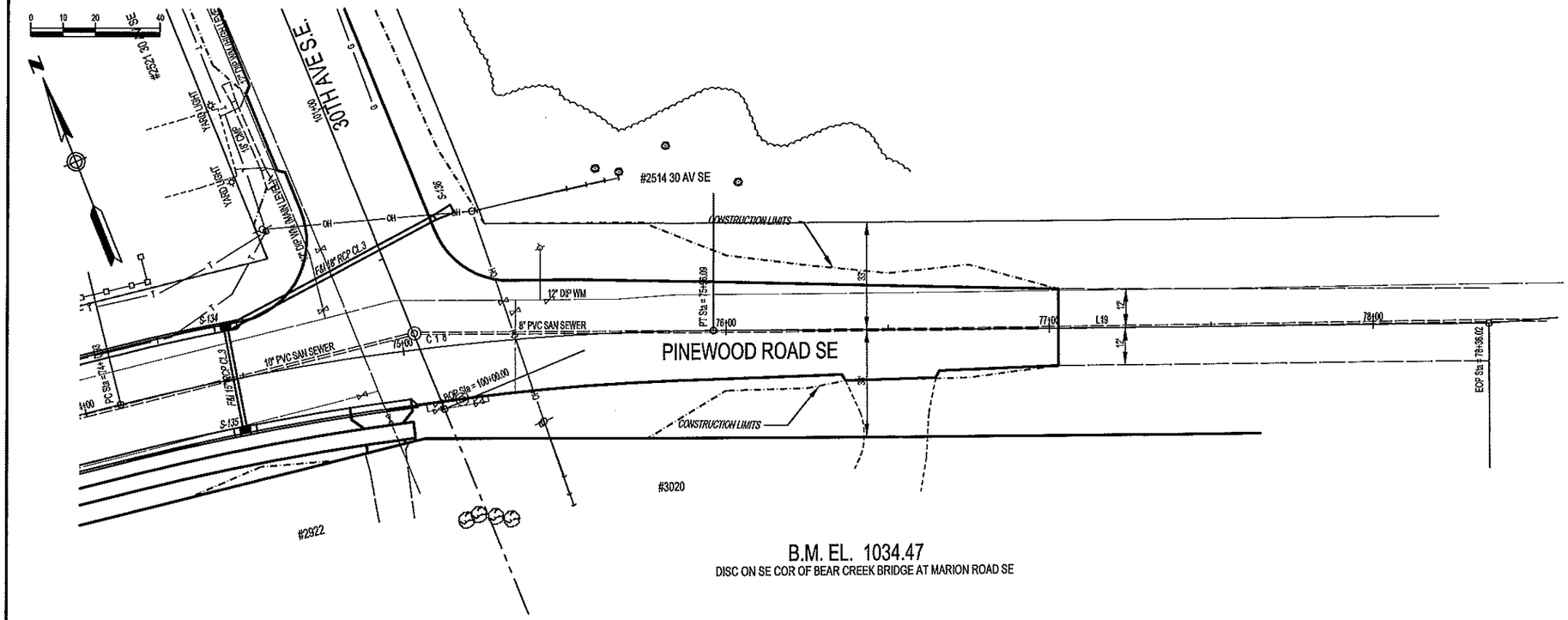
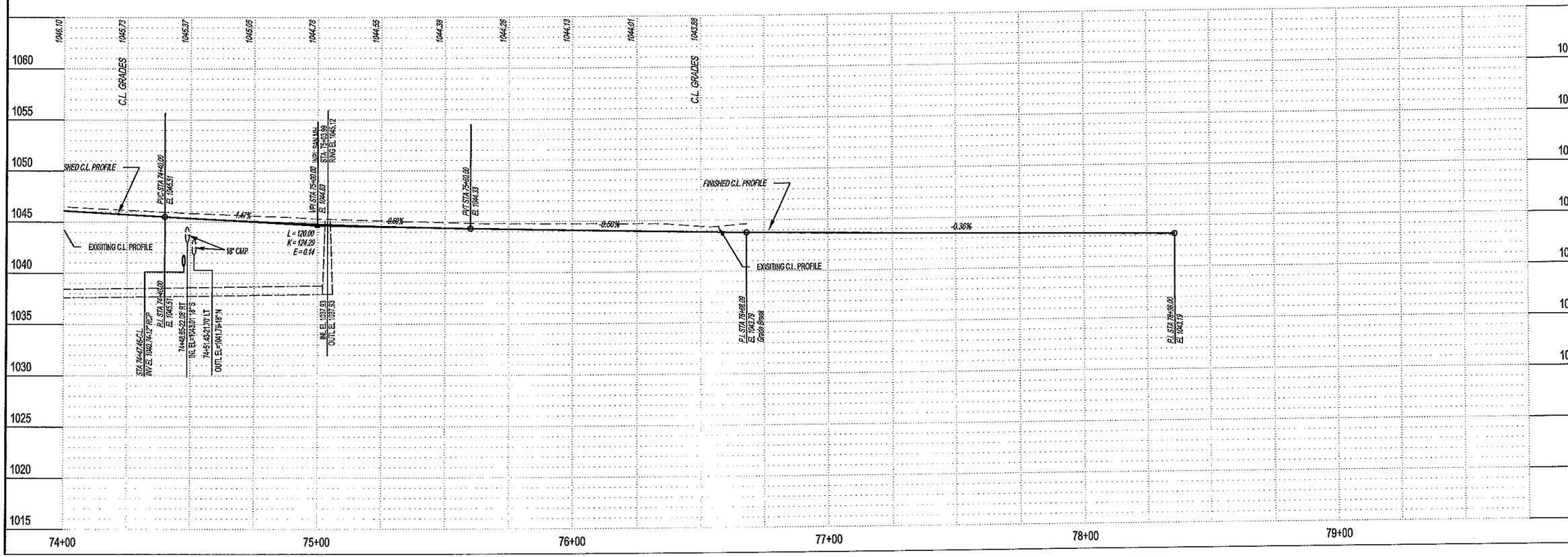


B.M. EL. 1034.47
DISC ON SE COR OF BEAR CREEK BRIDGE AT MARION ROAD SE



Revision: —
Revision comment: —
Creation Date: —

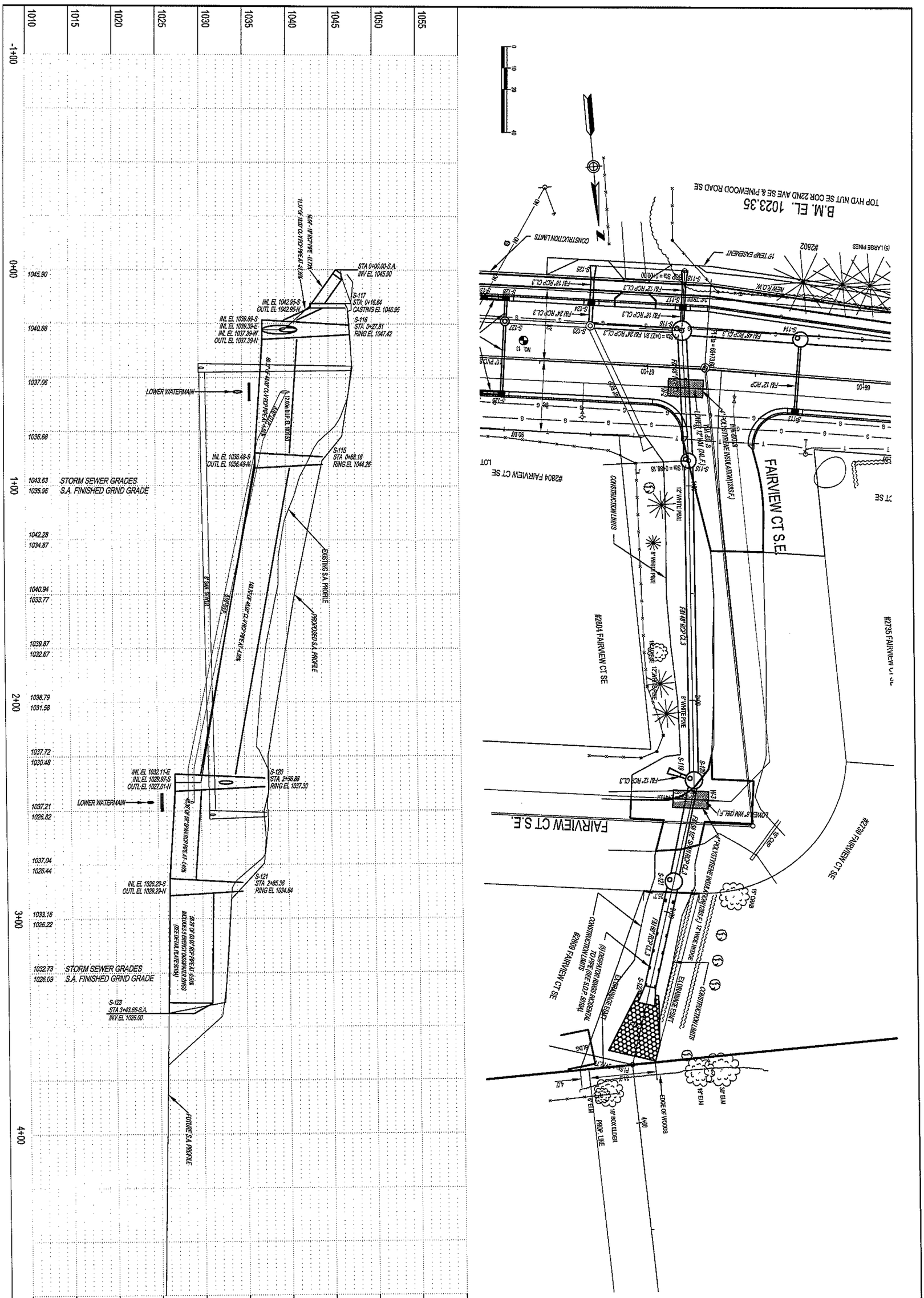
I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Date: 07/27/11 Reg. No. 24697

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2460
FAX: (507) 328-2401

UNDERGROUND

Title:
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J 7257
Sheet 55 of 173 Sheets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1015
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1055
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0+00
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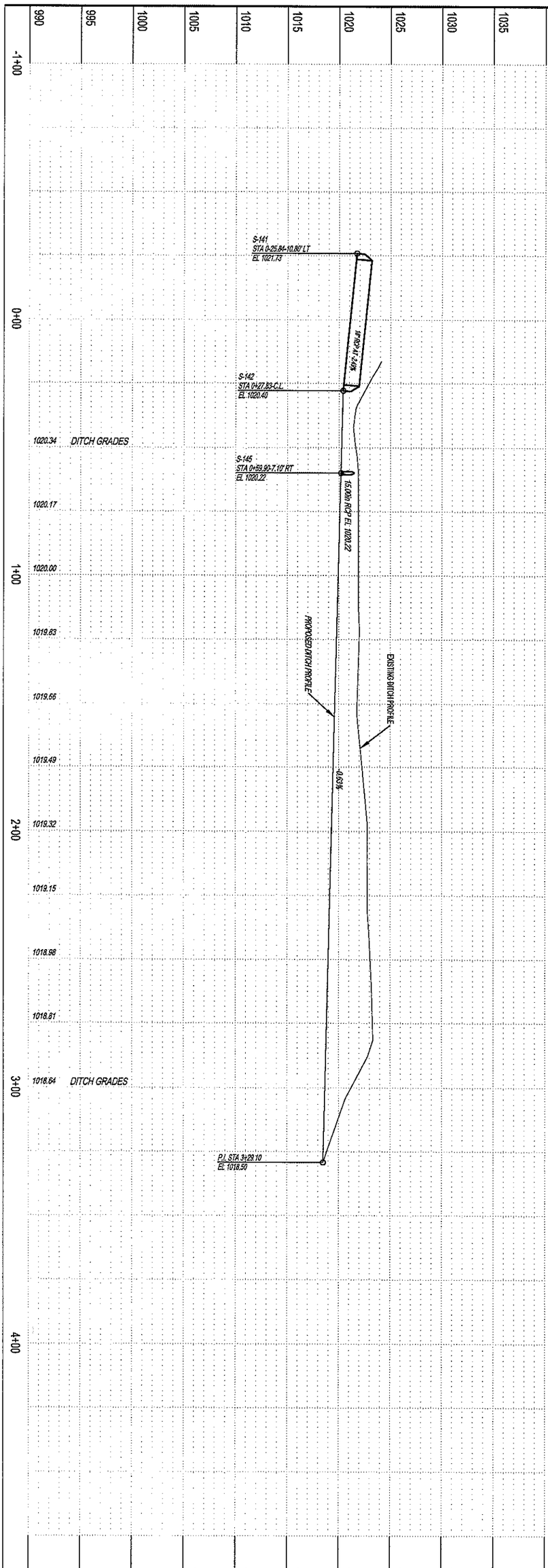
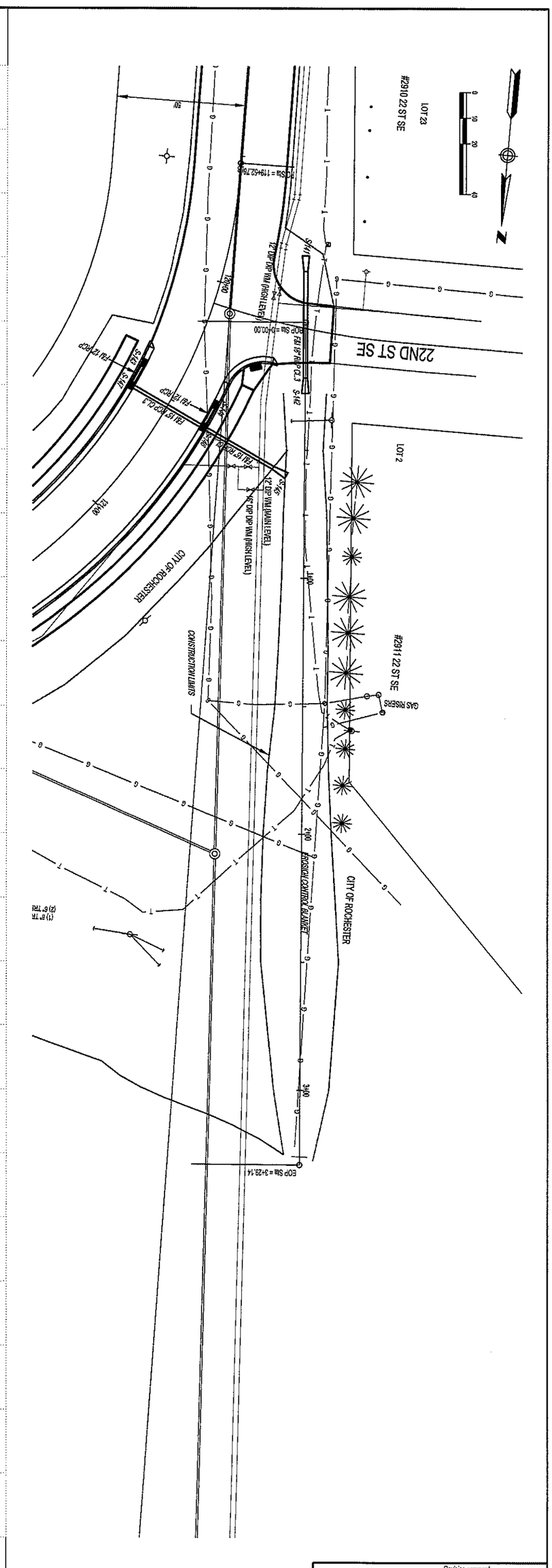
3+00
4+00
1045.90
1040.66
1037.06
1036.68
1043.63
1035.96
STORM SEWER GRADES
S.A. FINISHED GRND GRADE
1042.28
1034.87
1040.94
1033.77
1039.87
1032.67
1038.79
1031.58
1037.72
1030.48
1037.21
1026.82
1037.04
1026.44
1033.16
1026.22
1032.73
1026.09
STORM SEWER GRADES
S.A. FINISHED GRND GRADE
LOWER WATERMAIN
LOWER WATERMAIN
INL EL 1042.95-S
OUTL EL 1042.95-N
INL EL 1039.69-S
INL EL 1039.39-E
INL EL 1037.39-W
OUTL EL 1037.39-N
INL EL 1036.48-S
OUTL EL 1036.48-N
INL EL 1032.11-E
INL EL 1029.97-S
OUTL EL 1027.01-N
INL EL 1026.29-S
OUTL EL 1026.29-N
STA 0+00.00-S.A.
INV EL 1045.90
S-117
STA: 0+16.64
CASTING EL 1046.95
S-116
STA: 0+27.81
RING EL 1047.42
S-115
STA 0+68.16
RING EL 1044.26
S-120
STA 2+96.68
RING EL 1037.30
S-121
STA 2+85.36
RING EL 1034.64
S-123
STA 3+43.86-S.A.
INV EL 1026.00
EXISTING S.A. PROFILE
PROPOSED S.A. PROFILE
FUTURE S.A. PROFILE
B.M. EL. 1023.35
TOP HYD NUT SE COR 22ND AVE SE & PINEWOOD ROAD SE
CONSTRUCTION LIMITS
FAIRVIEW CT S.E.
#2804 FAIRVIEW CT SE
#2735 FAIRVIEW CT SE
#2739 FAIRVIEW CT SE
#2809 FAIRVIEW CT SE
EDGE OF WOODS
PROP. LINE
18" ELM
18" BOX ELDER
36" ELM
S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18 J7257
Sheet 56 of 173 Sheets
Designer: RLW
Checker: RJK
Title:
UNDERGROUND
City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
FAX: (507) 328-2401
Revision comment: ADDENDUM #1
Revised: 09/23/11
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: 07/27/11 Reg. No. 24667





S.P. No. 159-166-001

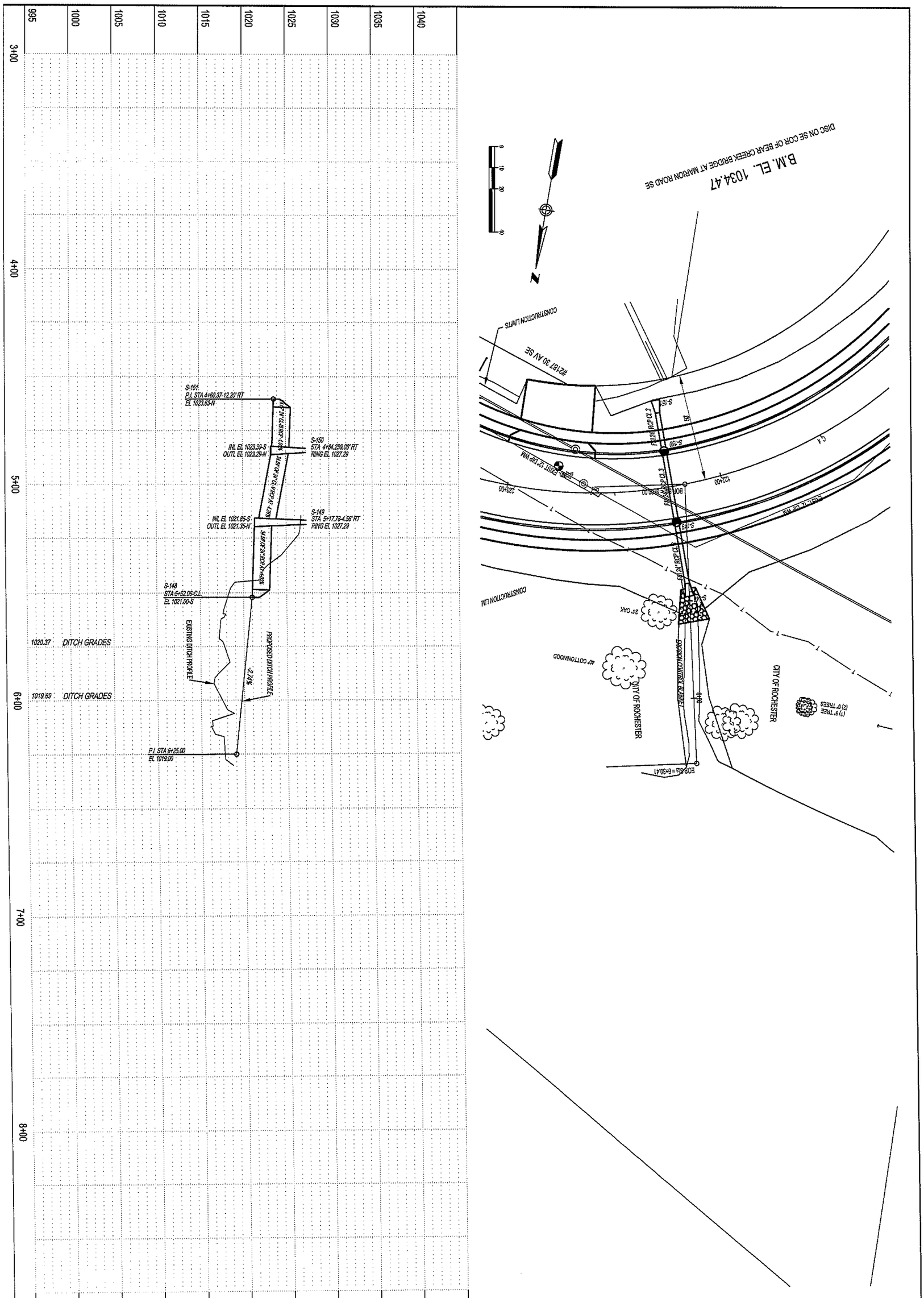
S.P. No. 159-167-001	Designer: RLW	Title:	
Project No. M7-18 J7257	Checker: RJK	UNDERGROUND	
Sheet 57 of 173 Sheets			

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
FAX: (507) 328-2401

Revised: 09/23/11 Revision comment: ADDENDUM #1
Creation Date:

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.

Russell J. Klun Date: 07/27/11 Reg. No. 24667



S.P. No. 159-166-001

S.P. No. 159-167-001
Project No. M7-18 J7257
Sheet 58 of 173 Sheets

Designer: RLW
Checker: RJK

Title:
UNDERGROUND

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2450
FAX: (507) 328-2401

Revised: —
Creation Date:
Revision comment: —

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.
Russell J. Klun Date: 07/27/11 Reg. No. 24667

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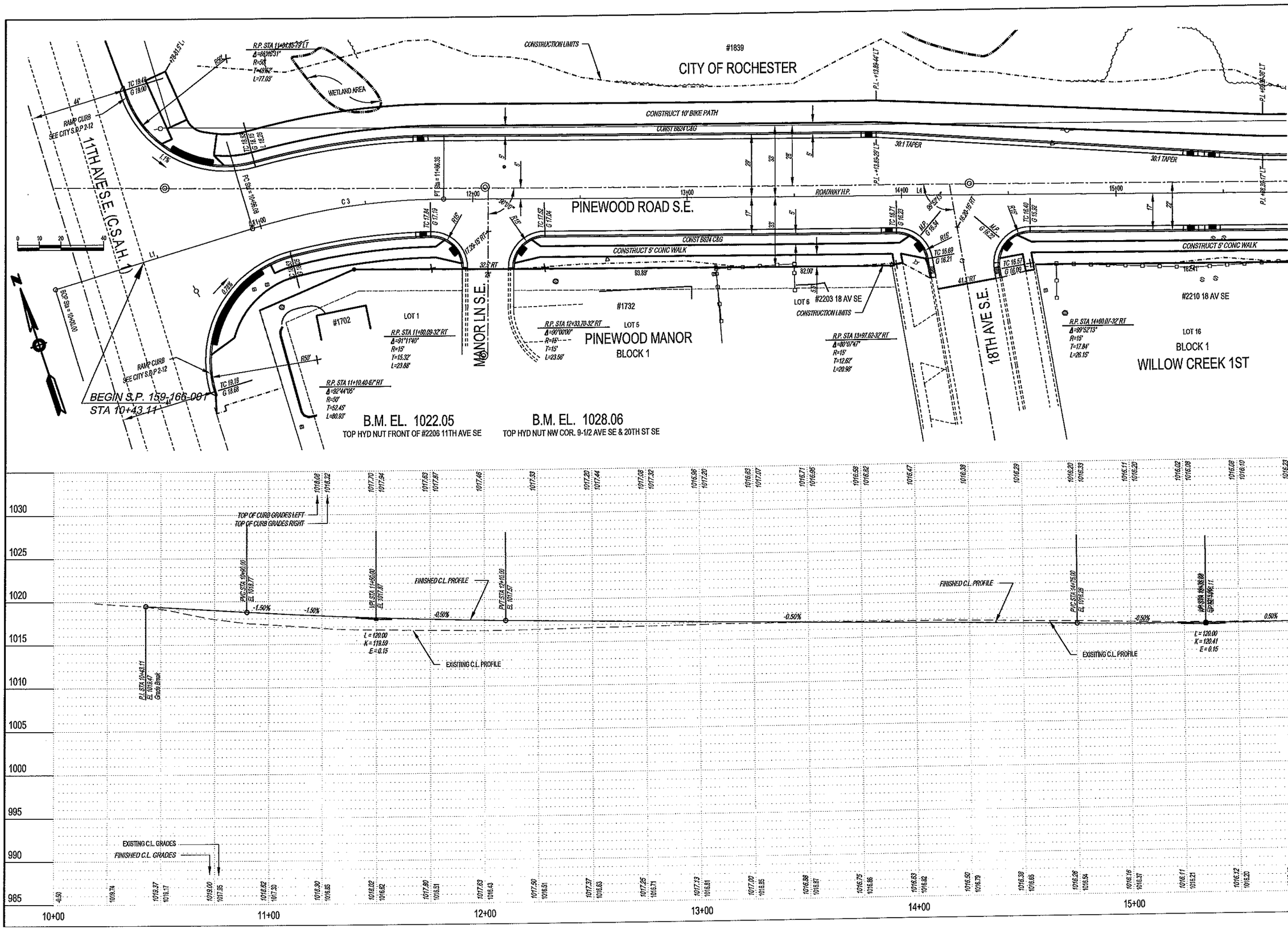


Revision comment: —
Revised: —
Creation Date:

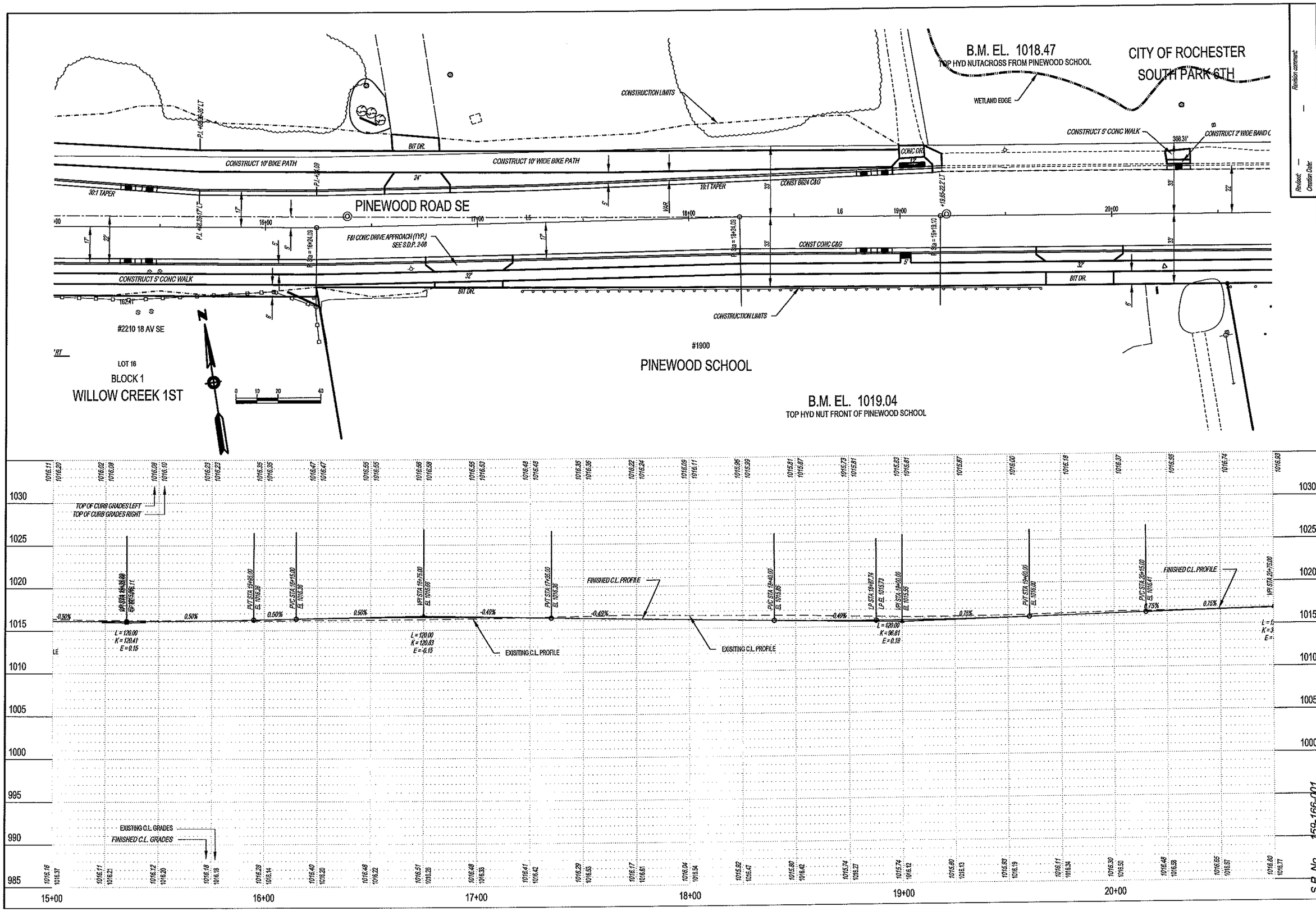
I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Date: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2460
FAX: (507) 328-2401

Title: GRADING,CURB & GUTTER & WALK

Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 59 of 173 Sheets



Revision comment: —
Revision#: —
Creation Date:

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: 07/27/11 Reg. No. 24667

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2400
FAX: (507) 328-2601

GRADING,CURB & GUTTER & WALK

Title:
Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J 7257
Sheet 60 of 173 Sheets

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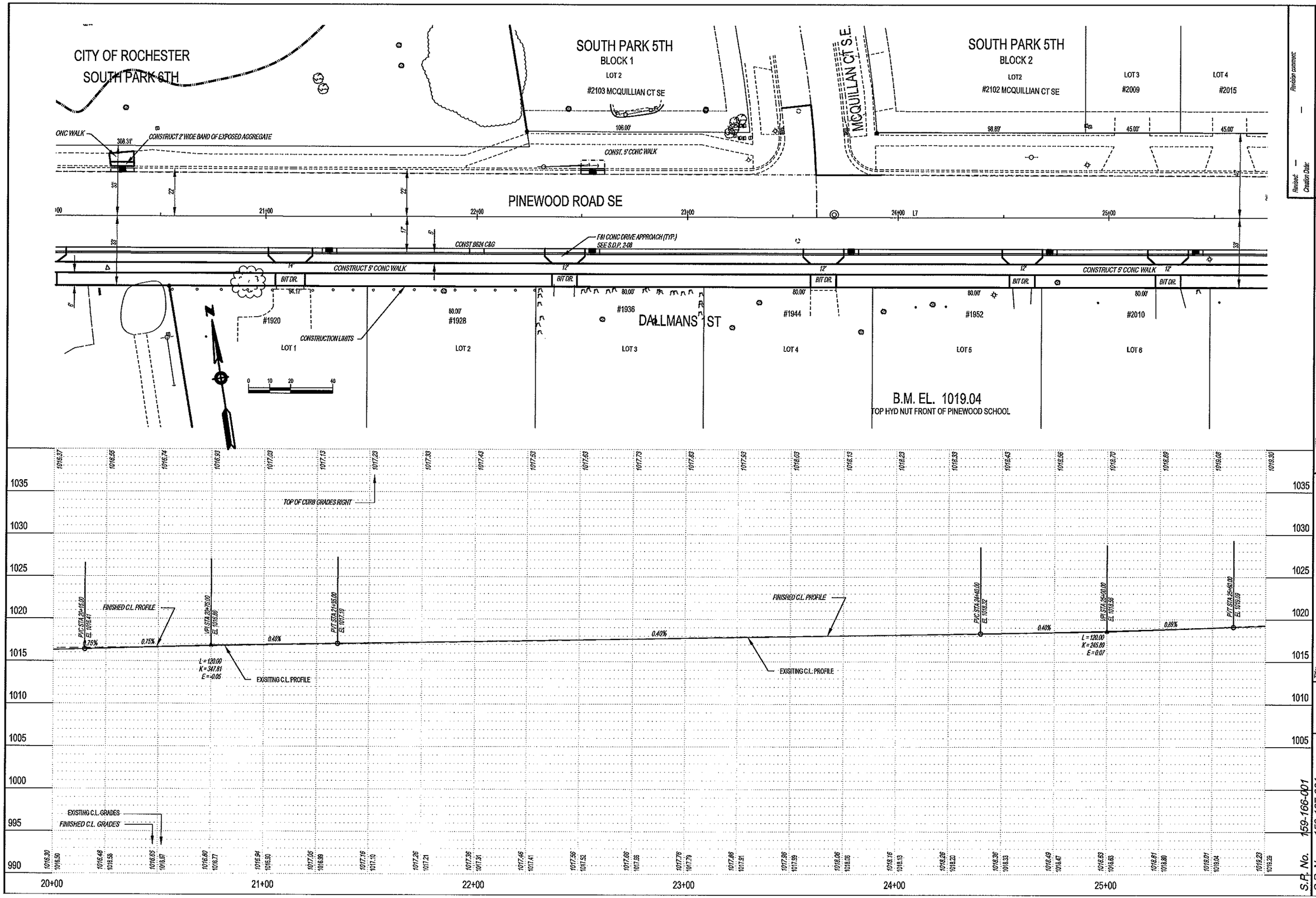

Revision comments:
—

Revised: —
Creation Date:

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.
Ronald J. Klein
Date: 07/27/11 Reg. No. 24067

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2400
FAX: (507) 328-2401

Title:
GRADING, CURB & GUTTER & WALK

Designer: RLW
Checker: RJK

S.P. No. 159-166-001
S.P. No. 159-167-001
Project No. M7-18
J7257
Sheet 61 of 173 Sheets

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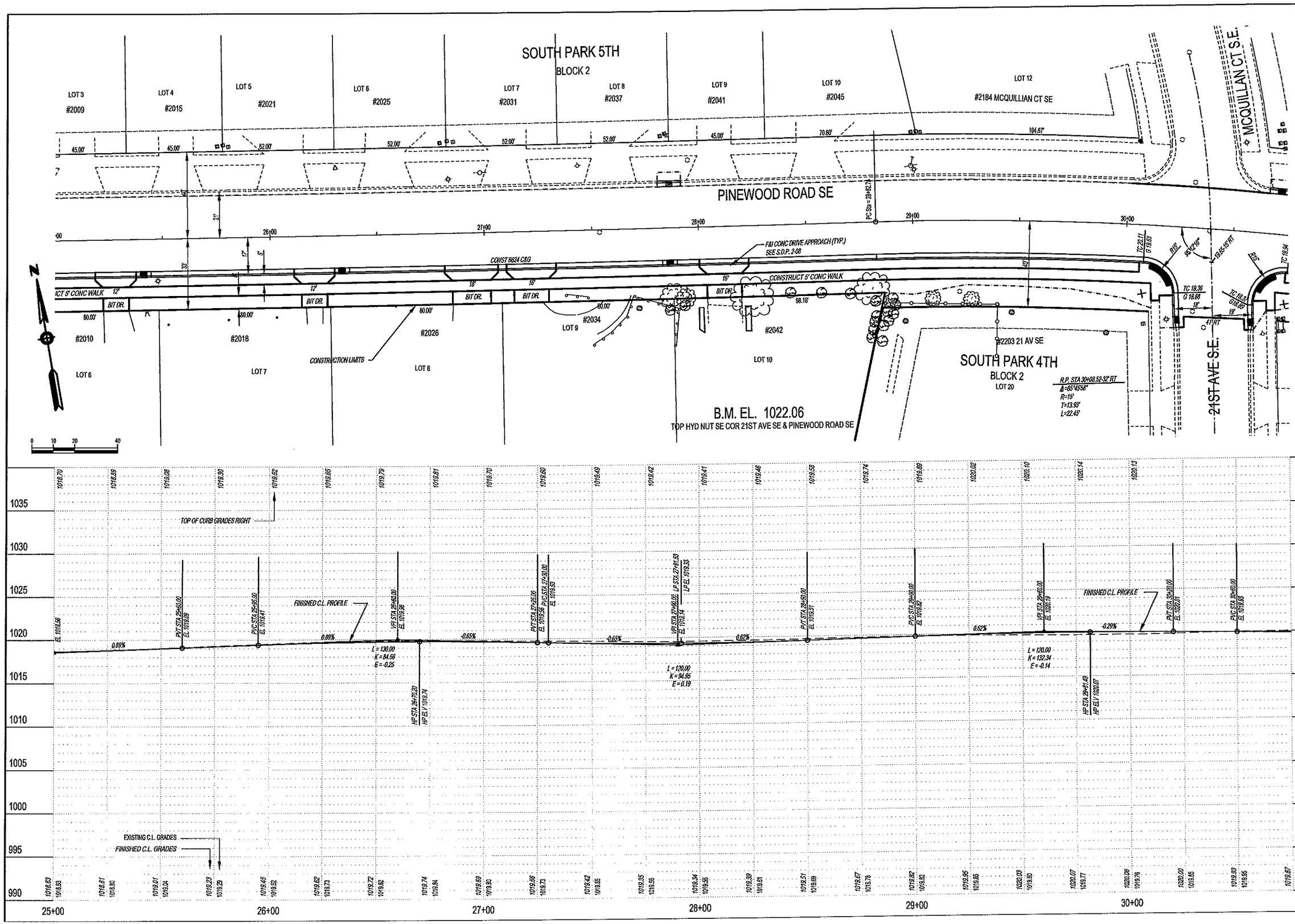

Revision comment: –

Revision#: –

Creation Date:

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: 07/27/11 Reg. No. 24567

City of Rochester, Minnesota
Department Of Public Works

201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2459
FAX: (507) 328-2411

Title: GRADING,CURB & GUTTER & WALK

Designer: RLW

Checker: RJK

S.P. No. 159-166-001

S.P. No. 159-167-001

Project No. M7-18

J 7257

Sheet 62 of 173 Sheets

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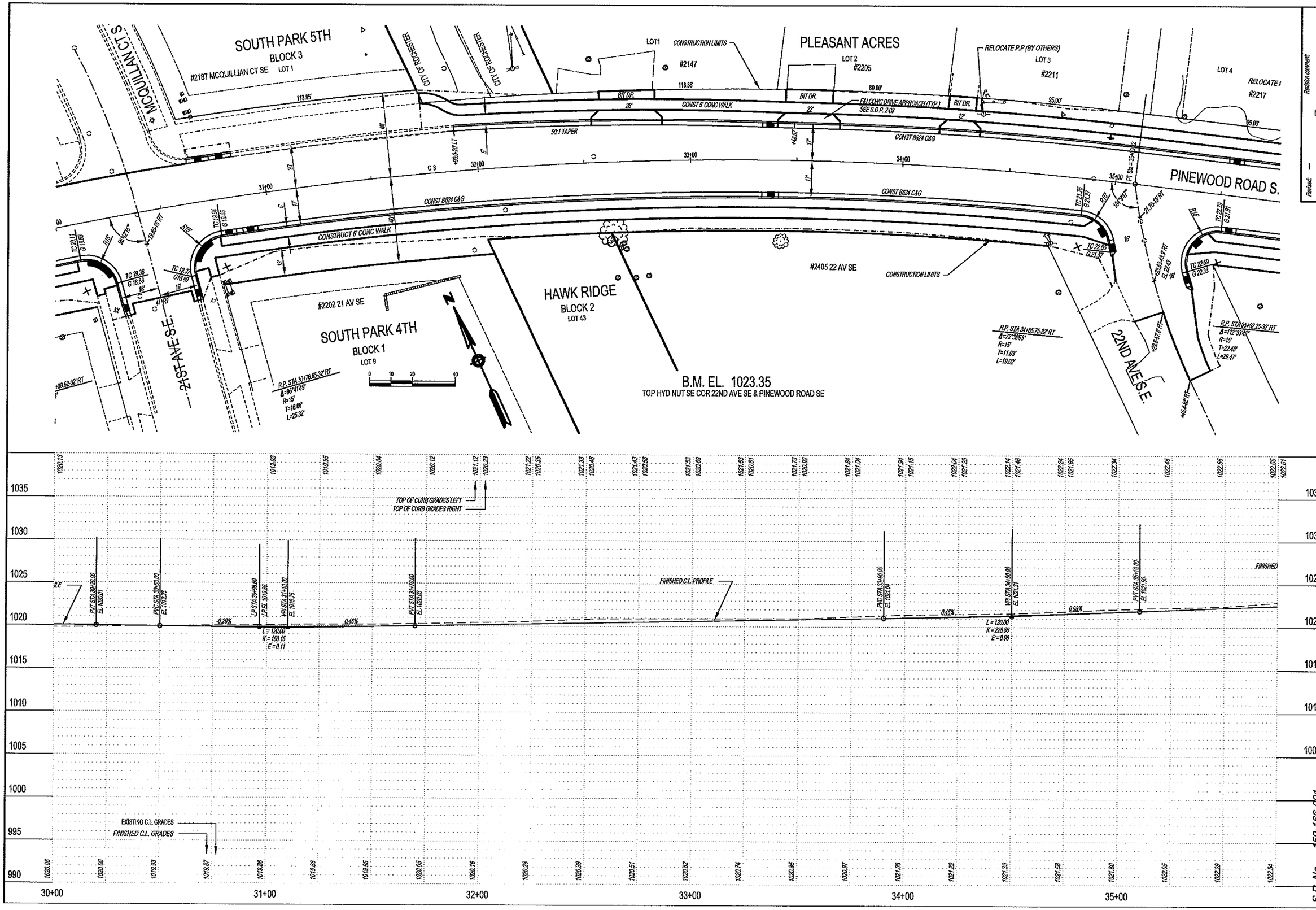

City of Rochester, Minnesota
Department Of Public Works
201 4th Street S.E.
Rochester, MN 55904
Phone: (507) 328-2459
FAX: (507) 328-2401

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: 07/27/11 Reg. No. 24667

Revision comment:
Revised: –
Creation Date: –

Title: GRADING,CURB & GUTTER & WALK

Designer: RLW
Checker: RJK

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