

6/24/2013

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INDEX OF SHEETS

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27	TRAFFIC CONTROL PLAN
28-30	CROSS SECTIONS - AJAX ROAD
31-64	CROSS SECTIONS - RAILROAD STREET

TOTAL SHEETS - ~~64~~ 27

ENGINEER	SHORT ELLIOTT HENDRICKSON INC.
PROJECT ENGINEER	MATT BOLF
RPR	JERRY HALDORSON
SURVEYOR	SEH
GENERAL CONTRACTOR	RJS CONSTRUCTION GROUP
SUBCONTRACTORS	
AGG. & SEL. GRAN. BASE	RJS
BITUMINOUS	MONARCH PAVING - RR CROSSING ONLY
EXCAVATING & GRADING	RJS
EROSION CONTROL	RJS
TURF ESTABLISHMENT	SUPERIOR LANDSCAPING
UNDERGROUND UTILITIES	RJS
(SANTITARY, STORM, WATER)	
UNDERGROUND UTILITIES	SWLP, CENTURYLINK, CHARTER
(ELECTRIC, GAS, ELE, CABLE)	
HDPE PIPE FUSING	RJS, EBI
(WATERMAIN)	
WATERMAIN BORING	EBI DIRECTIONAL BORING
TESTING - UTILITIES	RJS, SEH, SWLP, CITY OF SUPERIOR
YEAR OF CONSTRUCTION	2011 TO 2013

CITY OF SUPERIOR

PLAN OF PROPOSED IMPROVEMENT

WINTER STREET INDUSTRIAL PARK

TIFF DISTRICT

DOUGLAS COUNTY



Toll Free (800) 242-8511
 Milwaukee Area (414) 259-1181
 Hearing Impaired TDD (800) 542-2289
 www.DiggersHotline.com

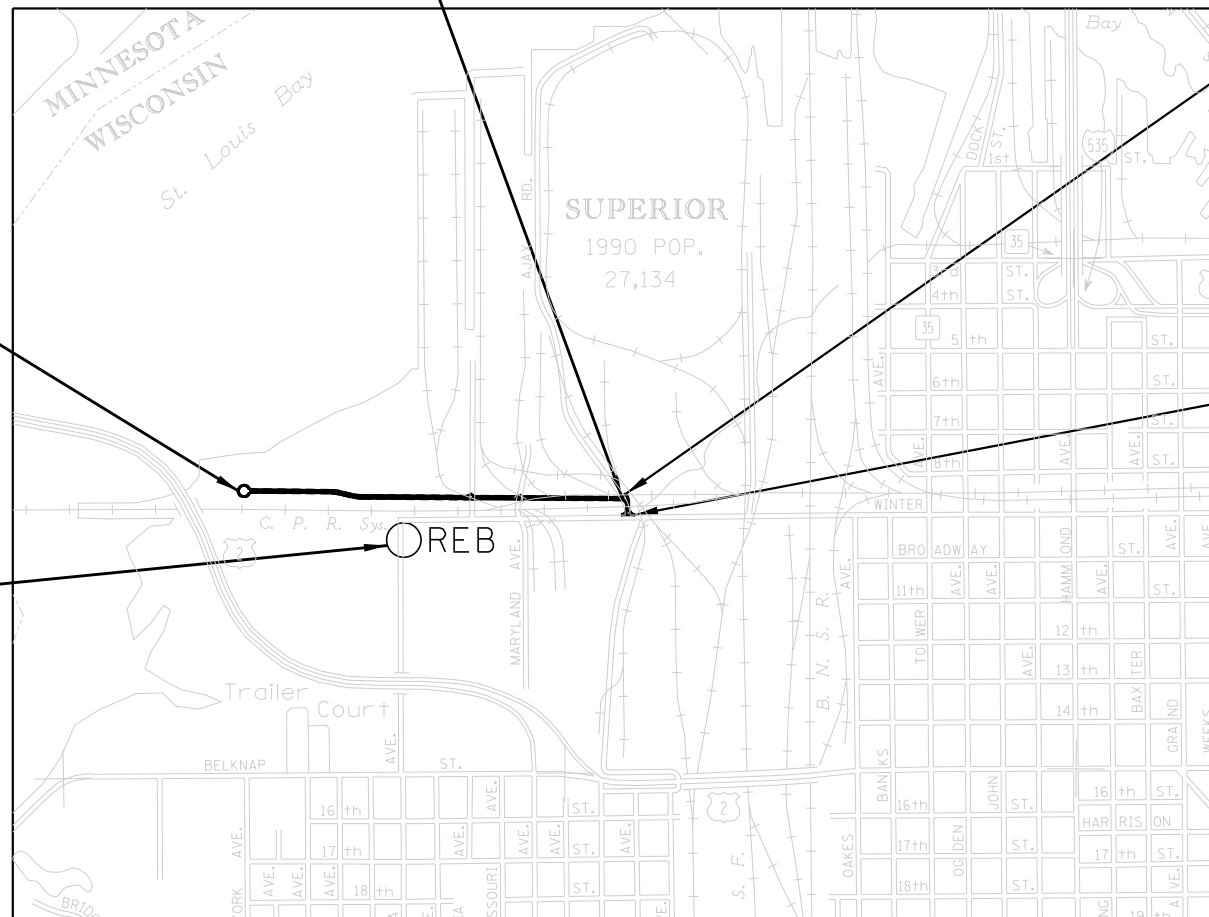
THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

BEGIN RAILROAD STREET
 STA. 102+09.94

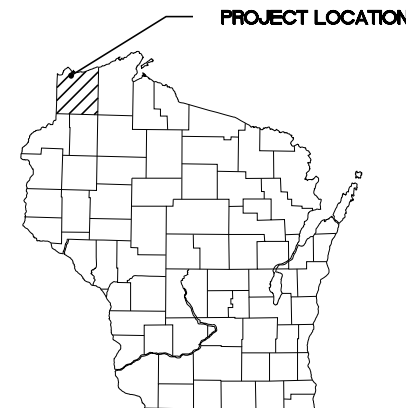
END AJAX ROAD
 STA. 202+31.69

END RAILROAD STREET
 STA. 142+17.73

BEGIN AJAX ROAD
 STA. 200+12.41



BENCHMARK
 5/8" REBAR
 X=141582.2208
 Y=307844.718
 Z=630.90



CONVENTIONAL SIGNS

COUNTY LINE	---	COMBUSTIBLE FLUIDS	
CORPORATE LIMITS	====	UNDERGROUND UTILITIES	
PROPERTY LINE	---P.L.---.58.1---	GAS	— G —
LOT LINE	----	ELECTRIC	— E —
LIMITED EASEMENT	----	TELEPHONE OR TELEGRAPH	— T —
EXISTING RIGHT OF WAY	----	SERVICE PEDESTAL	
PROPOSED OR NEW R/W LINE	----	CABLE MARKER	Y
SURVEY LINE	—○—	POWER POLE	○
SLOPE INTERCEPT	----	TELEPHONE POLE	○
ORIGINAL GROUND	~~~~~	RAILROAD	====
MARSH OR ROCK PROFILE	~~~~~	MARSH AREA	
EXISTING CULVERT	----	WOODED OR SHRUB AREA	
PROPOSED CULVERT (Box or Pipe)	====	SANITARY SEWER	----
CULVERT (Profile View)	○ □	WATER MAIN	----

SCALE 0 1000'

SCALE 0 1 MI.

LAYOUT

COORDINATE NOTE

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DOUGLAS COUNTY

TOTAL NET LENGTH OF CENTERLINE = 0.801 MI.

APPROVED FOR	
CITY	SUPERIOR
of	
DATE	CITY ENGINEER

ORIGINAL PLANS PREPARED BY



RECORD DRAWING 2013
 BY SEH, INC.

6/18/2013

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STATEMENT OF ESTIMATED QUANTITIES

Table with columns: TAB, SHEET NO., ITEM NO., ITEM DESCRIPTION, UNIT, ESTIMATED QUANTITY, FINAL QUANTITY (RED). Includes items like CLEARING, GRUBBING, EXCAVATION, PAVEMENT, and DISPOSAL.



Toll Free (800) 242-8511 Milwaukee Area (414) 259-1181 Hearing Impaired TDD (800) 542-2289 www.DiggersHotline.com

UTILITY CONTACTS

SUPERIOR WATER, LIGHT & POWER CO. 2915 HILL AVENUE P.O. BOX 519 SUPERIOR, WI 54880 TELEPHONE: 715.395.6353 ATTENTION: DICK BRONSON EMAIL: RBRONSON@SWLP.COM

TELEPHONE: 218.355.5949 ATTENTION: TIM MELBY (WATER & GAS) EMAIL: TMELBY@SWLP.COM

CHARTER COMMUNICATIONS 302 E. SUPERIOR STREET DULUTH, MN 55802 TELEPHONE: 218.529.8042 ATTENTION: JOHN QUADE EMAIL: JQUADE@CHARTERCOM.COM

CENTURYTEL SERVICE GROUP 135 N. 21ST STREET SUPERIOR, WI 54880 ENGINEERING TELEPHONE: 715.392.0033 ATTENTION: ARNOLD MILLER EMAIL: ARNOLD.MILLER@CENTURYTEL.COM

CITY OF SUPERIOR PUBLIC WORKS 1316 N. 14TH STREET SUPERIOR, WI 54880 TELEPHONE: 715.395.7539 ATTENTION: JEFF GEOTZMAN EMAIL: GEOTZMAN@CI.SUPERIOR.WI.US

WATERMAIN INFO

NOTE: HYDRANT TYPE - WATEROUS DATED 2011 NO DRAIN - PUMP ONLY 6" GATE VALVES - AMERICAN FLOW TYPE 12" BUTTERFLY VALVES - AMERICAN FLOW TYPE

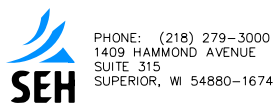
NOTES:

- (P) = PLAN QUANTITY
1 INCLUDES APRONS.
2 COMPUTED AT A RATE OF 0.035 GAL./SQ. YD.
3 COMPUTED AT A RATE OF 120 LBS./SQ. YD./INCH.
4 FILL & PLUG. SEE SPECIAL PROVISIONS.
5 PROJECT REQUIRES APPROXIMATELY 463 CU. YD. COMMON BORROW (COMPACTED VOLUME), ALL OF WHICH COMES FROM EXCAVATED MATERIAL.
6 COMPUTED AT A RATE OF 7 POUNDS/1,000 SQ. FT.
7 COMPUTED AT A RATE OF 1 1/2 POUNDS/1,000 SQ. FT.
8 FINAL ON-SITE DISPOSAL SITE LOCATION WILL BE DETERMINED BY THE CITY OF SUPERIOR AND THE ENGINEER.
9 APPROXIMATELY 165 CU. YD. FOR ROCK CHUTES. SEE SHEET NO. 26 FOR DETAILS AND LOCATIONS.
10 COMMON EXCAVATION INCLUDES REMOVAL AND DISPOSAL OF BURIED RAILROAD TIES. SITE VISIT PRIOR TO BIDDING IS RECOMMENDED.
11 CONCRETE RUBBLE PILE APPROXIMATELY 3'-10' HIGH. REMOVE TO RIGHT-OF-WAY LIMITS. MISCELLANEOUS CONCRETE SLABS, RCP PIPE, ETC.
12 TO BE USED ON DISPOSAL SITE STOCKPILE.

BITUMINOUS ITEMS TO BE COMPLETED BY CITY OF SUPERIOR.

RECORD DRAWING 2013

Table with columns: DRAWN BY, DESIGNER, CHECKED BY, DESIGN TEAM, NO., BY, DATE, REVISIONS. Includes names like PRM, MJB/JCK, SSW/MJB.



PHONE: (218) 279-3000 1409 HAMMOND AVENUE SUITE 315 SUPERIOR, WI 54880-1674

WINTER STREET INDUSTRIAL PARK SUPERIOR, WISCONSIN

ESTIMATED QUANTITIES

FILE NO. SUPER0707

DATE 6/18/2013

2

64

6/18/2013

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A EARTHWORK				
STATION TO STATION	LOCATION	EXCAVATION COMMON	TOPSOIL	BREAKER RUN
		CU YD	CU YD	CU YD
AJAX ROAD				
200+12.1 - 202+31.7	LT. & RT. (MAINLINE)	736	66	260
RAILROAD STREET				
101+75.5 - 142+13.7	LT. & RT. (MAINLINE)	21418	2041	4690
PROJECT ITEM TOTALS		22154 (6)(8)	2107	4950

B REMOVALS/SALVAGE & SAWCUTS								
STATION TO STATION	LOCATION	REMOVE ASPHALTIC SURFACE	SAWING ASPHALT	REMOVING SMALL PIPE CULVERTS	ABANDONING PIPE CULVERTS	MOVING SIGNS TYPE II	RELOCATE RAILROAD SIGN	REMOVE CONCRETE RUBBLE
		SQ YD	LIN FT	EACH	LIN FT	EACH	EACH	SQ YD
AJAX ROAD								
200+12.1	LT. & RT. (PROJECT START)		145					
200+12.1 - 202+31.7	LT. & RT. (EXISTING AJAX ROAD)	766						
200+43.8	22.9' LT. (SALVAGE & INSTALL STOP SIGN)					1		
202+31.7	LT. & RT. (END AJAX ROAD)		24					
RAILROAD STREET								
112+55.6 - 112+57.7	30.7' RT. - 9.9' RT. (20 LIN FT 15" RCP)			1				
116+58.3 - 116+75.0	10.6' LT. - 17.2' LT. (18 LIN FT 18" CMP)			1				
116+75.0 - 117+05.2	17.2' LT. - 28.8' LT. (18" CMP)				32			
117+89.4	21.0' RT. (MOVE TO LOCATION APPROVED BY THE ENGINEER)						1	
131+06.0 - 132+66.0	RT. (3'-10' HIGH CONC RUBBLE)							151
139+00.5 - 139+02.8	63.9' LT. - 60.2' RT. (124 LIN FT 30" RCP)			1				
139+03.0 - 139+37.0	60.6' RT. - 77.0' RT. (38 LIN FT 30" CMP)			1				
PROJECT ITEM TOTALS		766	169	4 (4)	32 (5)	1	1	151 (9)

C CLEARING AND GRUBBING			
STATION TO STATION	LOCATION	CLEARING	GRUBBING
		ACRE	ACRE
RAILROAD STREET			
122+50.0 - 123+56.6	RT.	0.20	0.20
125+60.1 - 129+16.1	RT.	0.20	0.20
129+57.5 - 130+95.1	RT.	0.20	0.20
130+89.3 - 134+81.1	LT.	0.20	0.20
137+23.8 - 141+34.1	RT.	0.20	0.20
137+23.9 - 142+32.1	LT.	0.31	0.31
PROJECT ITEM TOTALS		1.31	1.31

NOTES:

- ① SLOPE IS CALCULATED FROM END OF APRON TO END OF APRON.
- ② COMPUTED AT A RATE OF 0.035 GAL./SQ. YD.
- ③ COMPUTED AT A RATE OF 120 LBS./SQ. YD./INCH.
- ④ INCLUDES APRONS.
- ⑤ FILL & PLUG.
- ⑥ PROJECT REQUIRES APPROXIMATELY 463 CU. YD. COMMON BORROW, ALL OF WHICH COMES FROM EXCAVATED MATERIAL.
- ⑦ ROCK CHUTE. SEE NO. 26 FOR DETAIL AND LOCATION.
- ⑧ COMMON EXCAVATION INCLUDES REMOVAL AND DISPOSAL OF BURIED RAILROAD TIES. SITE VISIT PRIOR TO BIDDING IS RECOMMENDED.
- ⑨ CONCRETE RUBBLE PILE APPROXIMATELY 3'-10' HIGH. REMOVE TO RIGHT-OF-WAY LIMITS. MISCELLANEOUS CONCRETE SLABS, RCP PIPE, ETC.

E PAVEMENT & AGGREGATE				
STATION TO STATION	LOCATION	BASE AGGREGATE DENSE 1 1/4-INCH	TACK COAT	HMA PAVEMENT TYPE E-1
		CU YD	GALLON (2)	TON (3)
AJAX ROAD				
200+12.1 - 201+31.7	LT. & RT. (MAINLINE)	199	53	274
200+06.7 - 202+32.4	RT. (SHOULDER)	14		
200+18.2 - 201+25.2	LT. (SHOULDER)	8		
RAILROAD STREET				
101+75.5 - 142+13.7	LT. & RT. (MAINLINE)	3207	818	4217
101+63.5 - 140+99.0	LT. (SHOULDER)	220		
101+92.0 - 112+60.0	RT. (SHOULDER)	60		
112+77.3	DRIVEWAY (RT.)	10	4	16
112+89.9 - 117+55.9	RT. (SHOULDER)	25		
117+85.0	DRIVEWAY (RT.)	26	8	43
118+14.1 - 140+99.0	RT. (SHOULDER)	126		
140+99.0 - 142+17.7	LT. & RT. (CUL-DU-SAC SHOULDER)	26		
PROJECT ITEM TOTALS		3921	883	4550


D GEOTEXTILE FABRIC		
STATION TO STATION	LOCATION	GEOTEXTILE FABRIC TYPE SAS SQ YD
AJAX ROAD		
200+12.1 - 202+31.7	LT. & RT. (MAINLINE)	943
RAILROAD STREET		
101+75.5 - 142+13.7	LT. & RT. (MAINLINE)	19977
PROJECT ITEM TOTALS		20920

N DISPOSAL SITE						
STATION TO STATION	LOCATION	DISPOSAL SITE STOCKPILING	SILT FENCE	MULCHING	CLEARING	GRUBBING
		CU YD	LIN FT	SQ YD	ACRE	ACRE
RAILROAD STREET						
133+48.7 - 138+34.5	RT.	21691	1152	6510	0.45	1.19
PROJECT ITEM TOTALS		21691	1152	6510	0.45	1.19

F CULVERTS														
STATION TO STATION	LOCATION	INLET	OUTLET	SLOPE (1)	CULVERT PIPE REINFORCED CONCRETE CLASS V 12-INCH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 12-INCH	CULVERT PIPE REINFORCED CONCRETE CLASS V 15-INCH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH	CULVERT PIPE REINFORCED CONCRETE CLASS V 30-INCH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH	APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH	CULVERT PIPE REINFORCED CONCRETE CLASS V 20-18-INCH (JACKED)	RIPRAP MEDIUM	CONNECT TO EXISTING DRAINAGE STRUCTURE
					LIN FT	EACH	LIN FT	EACH	LIN FT	EACH	EACH	LIN FT	CU YD	EACH
RAILROAD STREET														
105+50.0	22.0' RT. & 22.0' LT.	630.01	629.77	0.54	32	2							10	
112+55.4 - 112+66.6	32.6' RT. - 26.4' LT.	628.94	628.15	1.32			48	2					10	
113+17.3	22.0' RT. & 22.0' LT.	628.26	628.04	0.50	32	2							10	
115+68.7	22.1' RT. & 21.9' LT.	627.84	627.40	1.00	32	2							10	
116+00.0 - 117+07.8	22.7' LT. - 29.0' LT.	627.23	626.13	1.02									12	
119+00.0	21.1' RT. & 22.9' LT.	627.09	626.65	1.00	32	2							10	
126+71.2	21.4' RT. & 22.6' LT.	625.63	625.19	1.00	32	2							10	
138+00.0 - 138+90.0	26.0' RT. - 64.0' RT.												73 (7)	
138+00.0 - 138+67.0	26.0' LT. - 66.0' LT.												59 (7)	
139+00.5 - 139+02.8	63.9' LT. - 60.2' RT.	604.23	602.98	1.00					120	1			8	1
142+32.0	END OF CUL DE SAC												33 (7)	
PROJECT ITEM TOTALS					160	10	48	2	120	1			245	1

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DESIGNER: MJB/JCK		
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PHONE: (218) 279-3000
1409 HAMMOND AVENUE
SUITE 315
SUPERIOR, WI 54880-1674

WINTER STREET INDUSTRIAL PARK
SUPERIOR, WISCONSIN

TABULATIONS

FILE NO. SUPER0707	3
DATE 6/18/2013	64

6/18/2013

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G SANITARY SEWER

STR. NO.	TYPE	LOCATION		CASTING	DESIGN	TOP OF CASTING	PAY HEIGHT	OUTLET	DRAINS TO			SANITARY SEWER MAIN 8-INCH	INTERNAL CHIMNEY SEAL	CONNECT TO EXISTING SANITARY MANHOLE	
		STATION	OFFSET						STR.	① GRADE	INLET				
			LT												RT
006	PSMH	107+97.25	0.0	0.0	NENAH 1670	PRECAST	633.86	8.07	625.79	005	0.50	624.04	350	1	
005	PSMH	111+47.26	0.0	0.0	NENAH 1670	PRECAST	631.42	7.48	623.94	004	0.50	622.19	350	1	
004	PSMH	114+97.27	0.0	0.0	NENAH 1670	PRECAST	630.99	8.90	622.09	003	0.50	620.34	350	1	
003	PSMH	118+47.27	0.0	0.0	NENAH 1670	PRECAST	629.92	9.68	620.24	002	0.50	618.49	350	1	
002	PSMH	121+97.28	0.0	0.0	NENAH 1670	PRECAST	630.27	11.88	618.39	001	0.50	616.76	326	1	
001	PSMH	125+23.29	0.0	0.0	NENAH 1670	PRECAST	629.02	12.36	616.66	100	0.50	615.77	177	1	
007	PSMH	128+39.30	0.0	0.0	NENAH 1670	PRECAST	628.87	10.53	618.34	001	0.50	616.76	316	1	
		128+39.30		28.2					618.58	007	0.50	618.44	28		
008	PSMH	129+49.07	1.5		NENAH 1670	PRECAST	628.64	9.65	618.99	007	0.50	618.44	110	1	
009	PSMH	132+40.90		0.7	NENAH 1670	PRECAST	627.38	6.83	620.55	008	0.50	619.09	292	1	
010	PSMH	134+03.56	0.0	0.0	NENAH 1670	PRECAST	626.70	5.23	621.47	009	0.50	620.65	163	1	
100	ISMH	125+23.29	177.5				628.82								1
PROJECT TOTALS					11			90.61				2812	11		1

I HYDRANTS

STATION	LOCATION	HYDRANT
		EACH
RAILROAD STREET		
122+31.1	18.0' -24.4' RT.	1
125+39.9	18.0' -24.4' RT.	1
127+83.1	18.0' -24.4' RT.	1
131+91.8	18.0' -24.4' RT.	1
134+27 -134+22.5-	18.0' -24.4' RT.	1
PROJECT ITEM TOTALS		5

MH 4A - EJM COST

H SANITARY SERVICES

STATION	LOCATION	SANITARY SEWER SERVICE 6-INCH	SANITARY SEWER FORCE MAIN 2-INCH	8" X 6" PVC WYE
		LIN FT	LIN FT	EACH
RAILROAD STREET				
127+00.6	C/L - 28.1' RT.	28		1
131+85.8	3.5' LT. - 33.5' RT.	37		1
133+73.2	C/L - 30.0' RT.	30		1
134+03.6	MANHOLE - 25.0' RT.		25	
PROJECT ITEM TOTALS		95	25	3

J WATER MAIN AND VALVES

STATION	LOCATION	12" WATER MAIN HDPE	12" BUTTERFLY VALVE AND BOX	CUT INTO AND CONNECT TO EXISTING WATER MAIN
		LIN FT	EACH	EACH
RAILROAD STREET				
120+78.1 - 120+78.5	157.5' LT. - 10.0' RT.	168	1	1
120+78.5 - 134+27.4	10.0' RT. - 10.0' RT.	1349	2 *	
128+29.3	10.0' RT. - 28.2' RT.	18	1	
* 128+24	LINE VALVE - 10' RT.			
	INCLUDED IN QUANTITY			
PROJECT ITEM TOTALS		1535	4	1

EXISTING 10" DI WATERMAIN

K WATER SERVICES

STATION	LOCATION	6" WATER SERVICE HDPE	GATE VALVE AND BOX
		LIN FT	EACH
RAILROAD STREET			
126+90.6	10.0' RT. - 28.1' RT.	18	1
131+75.5	10.0' RT. - 33.0' RT.	23	1
133+63.2	10.0' RT. - 30.0' RT.	20	1
134+23 -134+26.0-	10.0' RT. - 25.0' RT.	15	1
PROJECT ITEM TOTALS		76	4

L TEMPORARY EROSION CONTROL

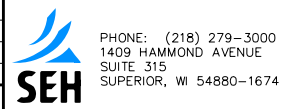
STATION TO STATION	LOCATION	SILT FENCE	EROSION MAT CLASS I TYPE B	TEMPORARY DITCH CHECKS	CULVERT PIPE DITCH CHECKS	TEMPORARY ROCK ENTRANCE
		LIN FT	SQ YD	LIN FT	EACH	EACH
AJAX ROAD						
200.12.1 - 200+62.1	LT. & RT.					1
200+27.7	87.1' RT.				1	
RAILROAD STREET						
102+00.0 - 142+35.7	LT.	4084				
102+00.0 - 142+35.7	RT.	2475				
103+00.0 - 112+62.9	RT. (DITCH)		856			
105+18.0	RT.			5		
105+50.0	22.0' RT.				1	
105+83.0	RT.			5		
112+55.4	32.6' RT.				1	
112+79.4 - 117+66.4	RT. (DITCH)		428			
113+17.3	22.0' RT.				1	
113+50.0	LT. & RT.			10		
114+07.6 - 116+06.0	LT. (SLOPE)		308			
115+23.0	RT.			5		
115+68.7	22.1' RT.				1	
116+00.0	22.7' LT.				1	
116+02.0	RT.			5		
118+84.7 - 142+32.7	LT. & RT. (DITCHES)		3489			
119+00.0	21.1' RT.				1	
119+32.0	RT.			5		
120+00.0 - 126+00.0	LT. (SLOPE)		745			
124+36.0 - 125+20.0	153.4' LT. - 203.2' LT.	115				
126+26.0	RT.			5		
126+71.2	21.4' RT.				1	
127+05.0	RT.			5		
138+64.0	LT.			5		
139+00.5	63.9' LT.				1	
PROJECT ITEM TOTALS		6674	5826	50	9	1

NOTES:

- ① SLOPE IS CALCULATED FROM CENTER TO CENTER OF STRUCTURES.
- ② COMPUTED AT A RATE OF 1 1/2 POUNDS/1000 SQ. FT.
- ③ COMPUTED AT A RATE OF 7 POUNDS/1000 SQ. FT.

RECORD DRAWING 2013

DRAWN BY: PRM	1 PRM 04/2013	RECORD DRAWINGS VIA JHJ
DESIGNER: MJB/JCK		
CHECKED BY: SSW/MJB		
DESIGN TEAM	NO.	BY DATE REVISIONS



WINTER STREET INDUSTRIAL PARK
SUPERIOR, WISCONSIN

TABULATIONS

FILE NO. SUPER0707
DATE 6/18/2013

4
64

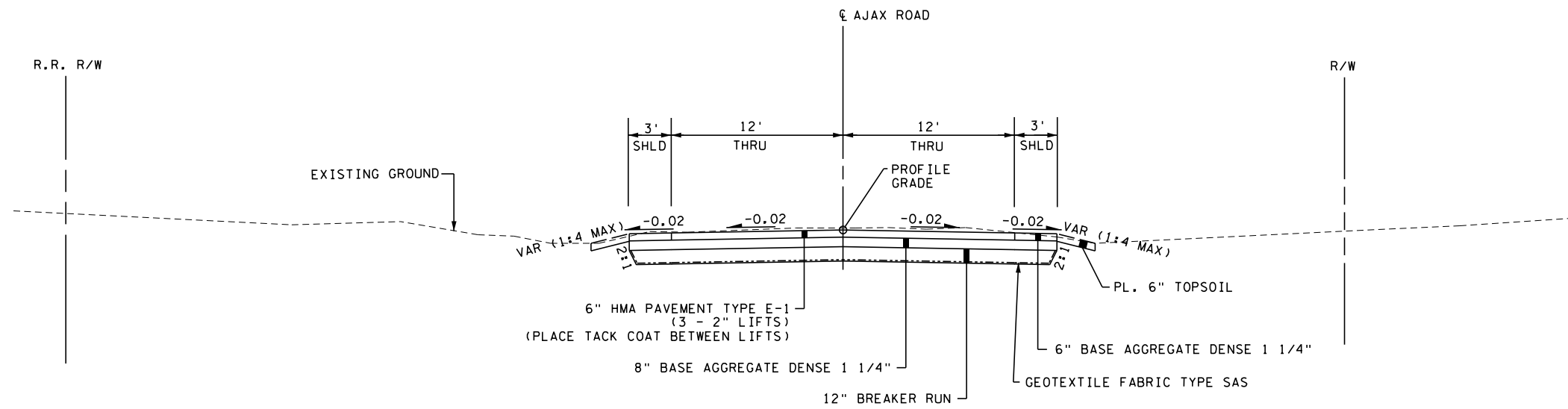
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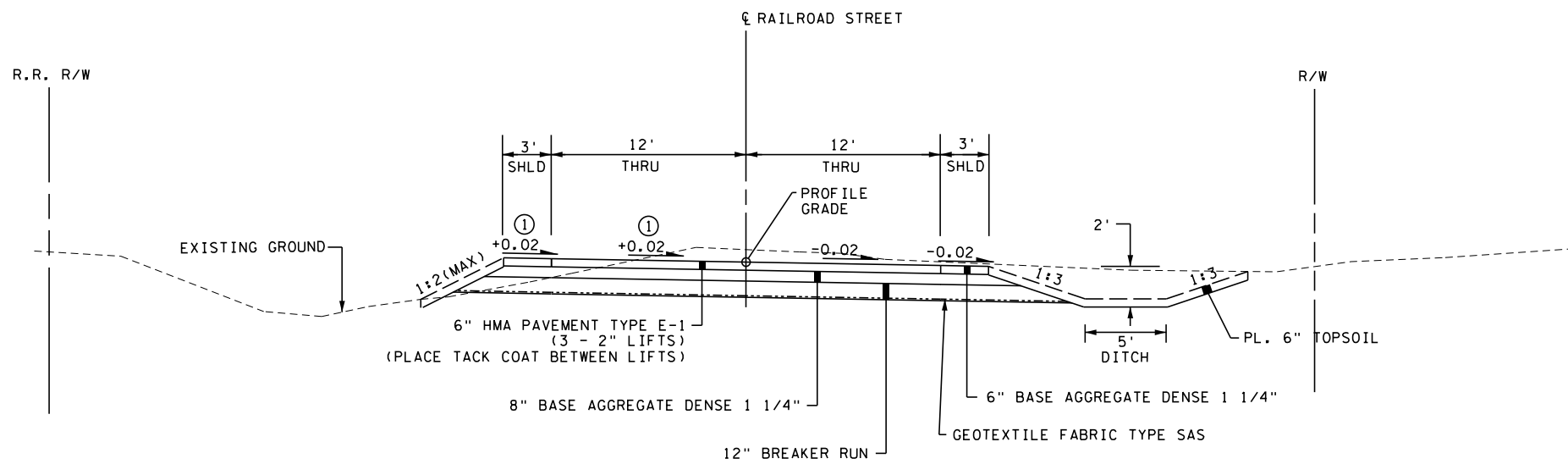
TYPICAL SECTION-AJAX ROAD

APPLIES: AJAX ROAD STA. 200+12.1 - 201+31.7



TYPICAL SECTION-RAILROAD STREET

APPLIES: RAILROAD STREET STA. 101+75.5 - 131+58.0



NOTES:

- ① TRANSITION FROM +0.02 CROSS SLOPE TO -0.02 CROSS SLOPE. SEE CONSTRUCTION PLANS FOR LOCATION.

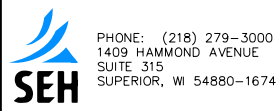
BITUMINOUS ITEMS TO BE COMPLETED BY CITY OF SUPERIOR.

GENERAL NOTES:

ALL CROSS SLOPES ARE FT./FT.

RECORD DRAWING 2013 NOT UPDATED

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WINTER STREET INDUSTRIAL PARK
SUPERIOR, WISCONSIN

TYPICAL SECTIONS

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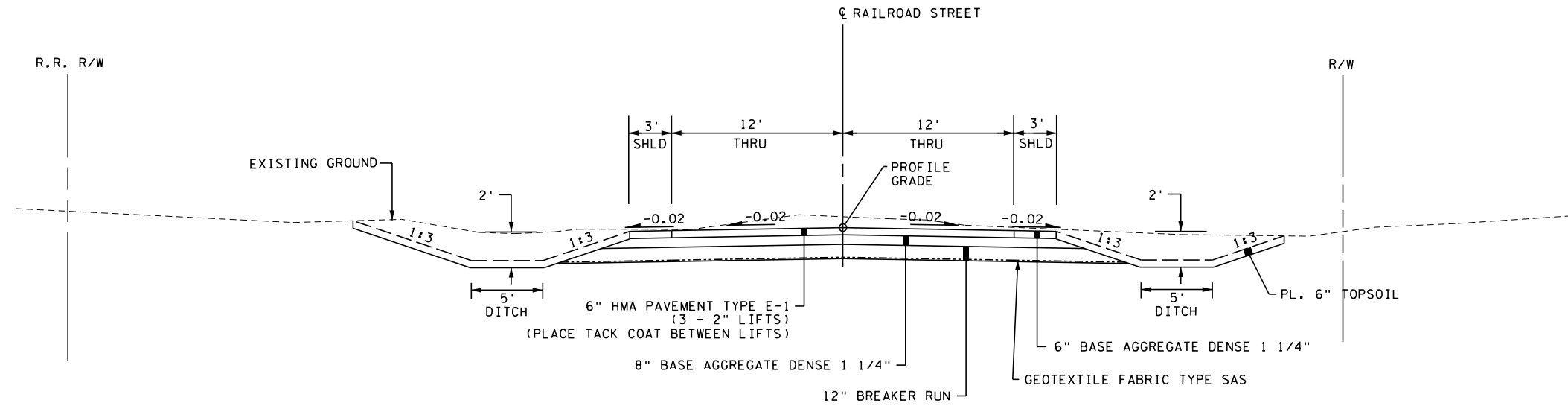
DATE
6/18/2013

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TYPICAL SECTION-RAILROAD STREET

APPLIES: RAILROAD STREET STA. 131+58.0 - 142+13.7



GENERAL NOTES:
ALL CROSS SLOPES ARE FT./FT.

RECORD DRAWING 2013
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WINTER STREET INDUSTRIAL PARK SUPERIOR, WISCONSIN

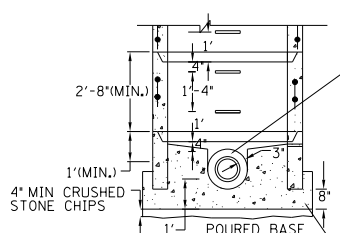
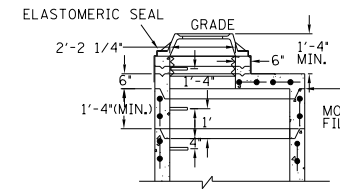
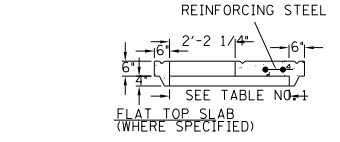
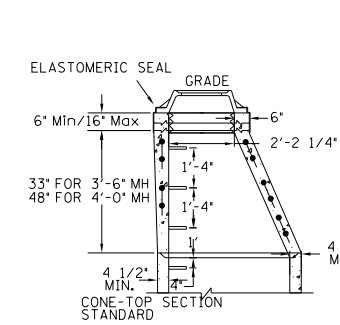
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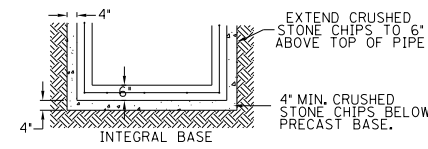
DATE
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TYPE I FRAME/CHIMNEY JOINT REQUIRED ON ALL SANITARY MANHOLES UNLESS OTHERWISE SPECIFIED, SONNEBORN HLM-5000-R ELASTOMERIC WATERPROOFING SEALER APPLIED TO EXTERIOR AND CRETEX INTERIOR CHIMNEY SEAL OR APPROVED EQUAL.



PIPE DIA	MANHOLE DIA	WALL THICKNESS
8" - 30"	4'-0"	5"
36"	5'-0"	6"
42"	6'-0"	7"



FLAT TOP SLAB MAY ONLY BE USED FOR 5'-0" AND 6'-0" DIA. MANHOLES AND WITH PERMISSION OF PROJECT ENGINEER OR WHERE SHOWN ON THE PLANS.

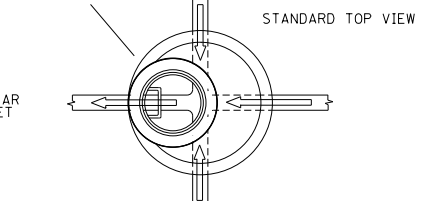
ADJUST FRAME TO GRADE WITH BRICK OR CONCRETE RINGS OF VARIABLE THICKNESS, MAXIMUM RING HEIGHT = 6", MINIMUM RING HEIGHT = 2". CONCRETE RINGS SHALL BE REINFORCED WITH ONE LINE OF STEEL CENTERED WITHIN THE RING. WHERE NECESSARY, RINGS SHALL BE GROOVED TO RECEIVE STEP, THE CHIMNEY SHALL BE CONSTRUCTED SO THAT AS FEW ADJUSTING RINGS AS POSSIBLE SHALL BE USED TO BRING MANHOLE TO GRADE.

CONCRETE AND STEEL REINFORCEMENT SHALL CONFORM TO DESIGNATION C-478 REQUIREMENTS OF ASTM SPECIFICATIONS.

JOINTS SHALL BE WATERTIGHT AND SHALL BE MADE USING BUTYL RUBBER GASKETS. ALL JOINTS SHALL CONFORM TO ASTM-C443 VARIATIONS IN DIAMETER, DEFECTIVE OR DAMAGED ENDS, OR OTHER CONDITIONS WHICH, IN THE OPINION OF THE PROJECT ENGINEER, PREVENT MAKING A SATISFACTORY JOINT SHALL BE CONSIDERED CAUSE FOR REJECTION.

AREA OF CIRCUMFERENTIAL STEEL = 0.12 SQ INCH PER LINEAL FOOT.

THE STEPS, FRAME, AND COVER SHALL BE CENTERED OVER THE DISCHARGE PIPE.



SPACE BETWEEN PIPE AND PRECAST MANHOLE WALL TO BE FILLED WITH BRICK MORTARED IN PLACE EXCEPT THAT AN APPROVED FLEXIBLE WATERTIGHT PIPE TO MANHOLE SEAL IS REQUIRED FOR ALL FLEXIBLE SANITARY SEWER CONNECTIONS. THE ANNULAR SPACE BETWEEN THE PIPE AND MANHOLE WALL SHALL BE FILLED WITH FLEXIBLE BUTYL RUBBER GASKET MATERIAL BELOW SURFACE OF BENCH SPRINGLINE.

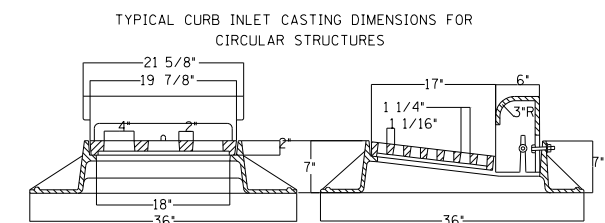
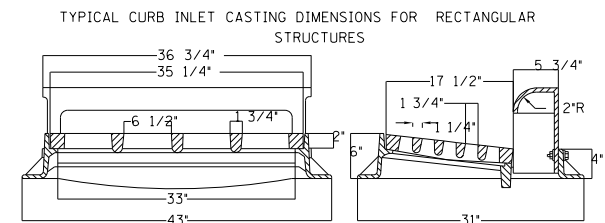
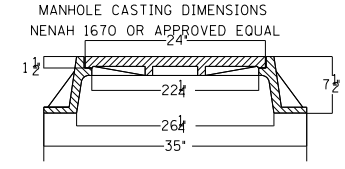
4" MIN. CRUSHED STONE CHIPS UNDER CONCRETE BASE.

PRECAST BASE RISER SECTION WITH A SEPERATE PRECAST BASE SLAB SHALL NOT BE CONSIDERED GENERALLY ACCEPTABLE UNDER THIS SPECIFICATION.

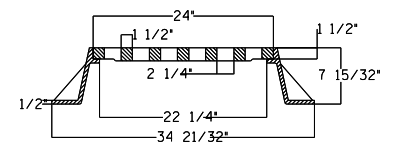
THE FLOW CHANNEL THROUGH MANHOLES SHALL BE MADE TO CONFORM TO THE SHAPE AND SLOPE OF THE SEWERS AND SHALL EXTEND VERTICALLY FROM THE SPRINGLINE TO THE CROWN OF THE DISCHARGE PIPE.

BENCH SLOPE { STORM MANHOLE 1" PER FOOT
SANITARY MANHOLE 2" PER FOOT
CLASS 'D' CONCRETE, 12" MIN. BELOW BOTTOM OF PIPE

PRECAST MANHOLE DETAIL
NTS



CASTING DIMENSIONS FOR GRATED MANHOLE COVERS AND CIRCULAR INLETS IN NON-CURB INSTALLATIONS



CASTING DIMENSIONS
NTS

RECORD DRAWING 2013
NOT UPDATED

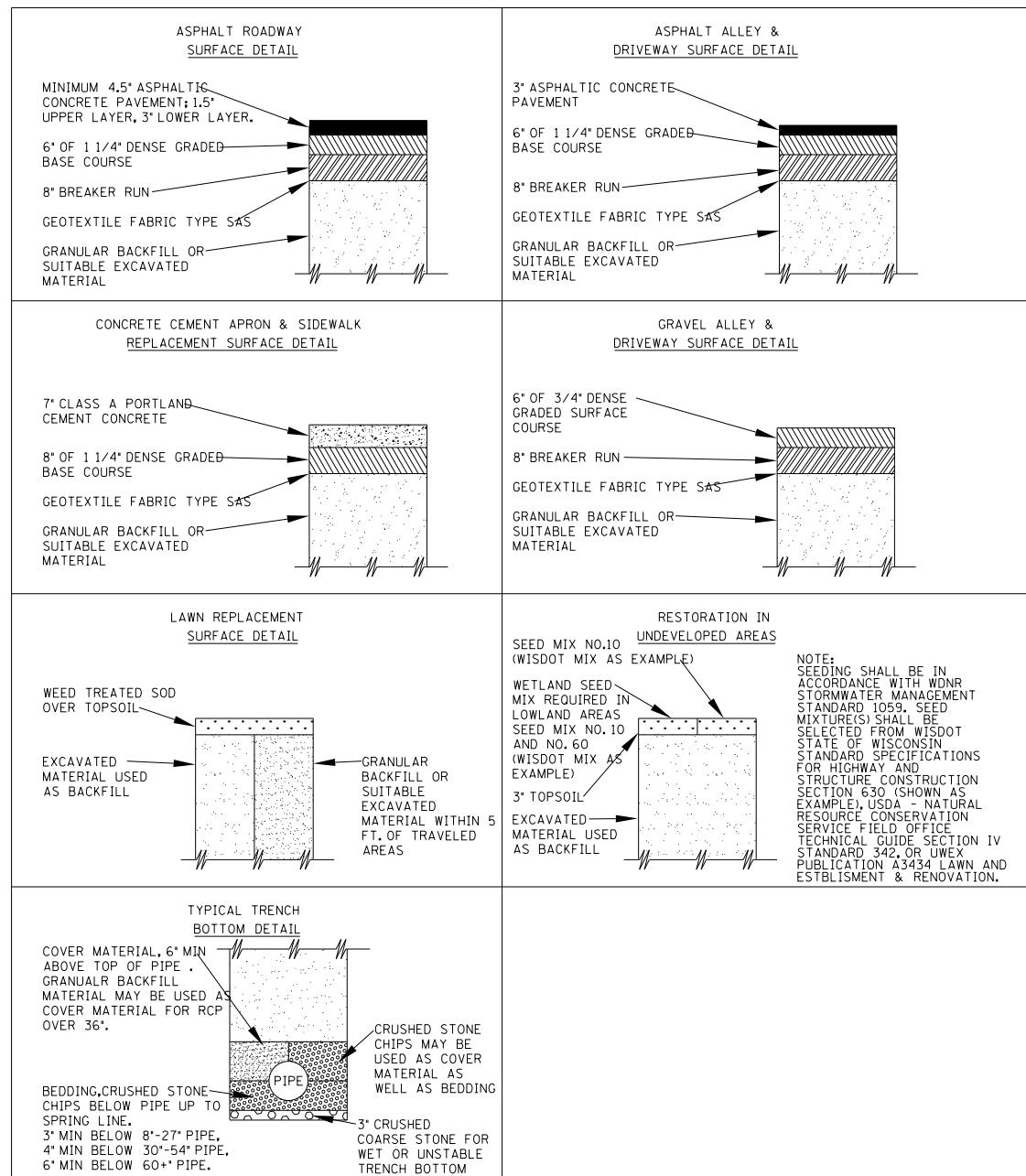
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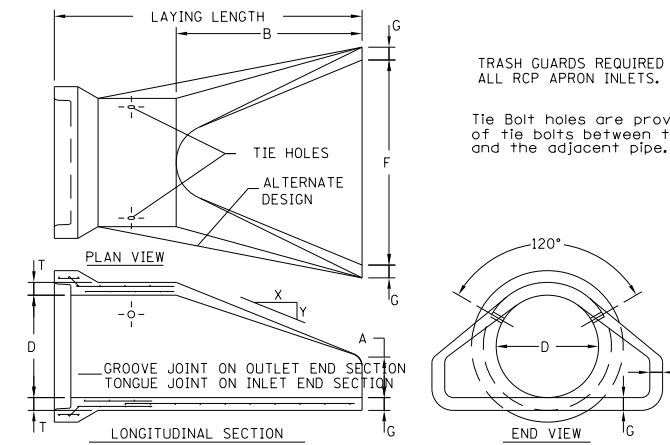
WINTER STREET INDUSTRIAL PARK
SUPERIOR, WISCONSIN

DETAILS

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RESURFACING DETAILS & TRENCH BOTTOM DETAIL
NTS



PIPE DIAMETER D	LAYING LENGTH	SLOPE	T	A	B	F	G	WEIGHT PER SECTION	
INCHES	OUTLET INLET	X TO Y	INCHES	INCHES	INCHES	INCHES	INCHES	LBS.	
12	6'-0"	6'-0"	2.4 to 1	2	4	24	24	2	530
15	6'-0"	6'-0"	2.4 to 1	2 1/4	6	27	30	2 1/4	740
18	6'-0"	6'-0"	2.3 to 1	2 1/2	9	27	36	2 1/2	990
21	6'-0"	6'-0"	2.4 to 1	2 3/4	9	36	42	2 3/4	1280
24	6'-0"	6'-0"	2.5 to 1	3	9 1/2	43 1/2	48	3	1520
27	6'-0"	6'-0"	2.5 to 1	3 1/4	10 1/2	49 1/2	54	3 1/4	1930
30	6'-0"	6'-0"	2.5 to 1	3 1/2	12	54	60	3 1/2	2190
33	6'-6"	6'-6"	2.5 to 1	3 3/4	13 1/2	58 1/2	66	3 3/4	3850
36	8'-2"	7'-10"	2.5 to 1	4	15	63	72	4	4100
42	8'-2"	7'-9 1/2"	2.5 to 1	4 1/2	21	63	78	4 1/2	5380
48	8'-2"	7'-9 1/2"	2.5 to 1	5	24	72	84	5	6550
54	8'-2 1/2"	7'-9 1/2"	2.0 to 1	5 1/2	27	65	90	5 1/2	8240
60	8'-3"	7'-10"	1.9 to 1	6	35	60	96	5	8730
66	8'-3"	7'-10"	1.7 to 1	6 1/2	30	72	102	5 1/2	10710
72	8'-3"	7'-10"	1.9 to 1	7	36	78	108	6	12520
78	9'-3"	8'-10"	1.8 to 1	7 1/2	36	90	114	6 1/2	14770
84	9'-3 1/2"	8'-10 1/2"	1.5 to 1	8	36	90 1/2	120	6 1/2	18160
90	9'-3 1/2"	8'-10 1/2"	1.5 to 1	8 1/2	41	87 1/2	132	6 1/2	20900

End section is manufactured in accordance with applicable portions of ASTM Specifications C76.

RECORD DRAWING 2013
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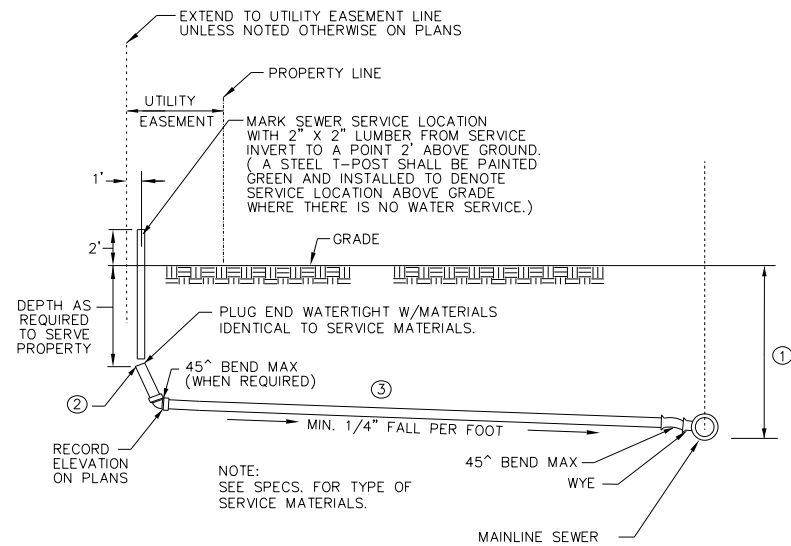
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WINTER STREET INDUSTRIAL PARK
SUPERIOR, WISCONSIN

DETAILS

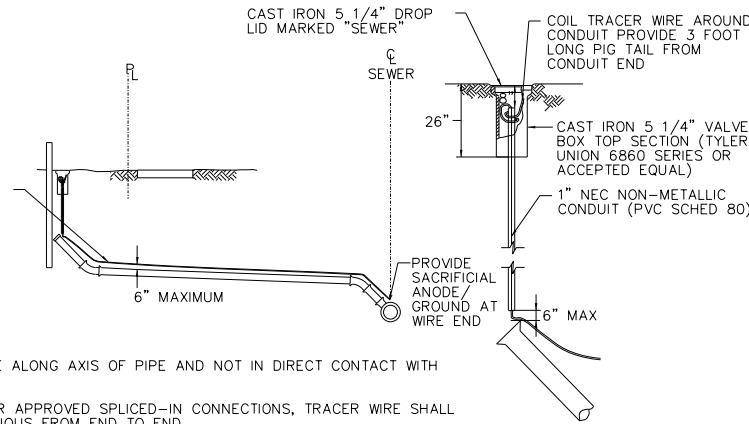
FILE NO. SUPER0707	8
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- ① WHERE SEWER DEPTH EXCEEDS 15 FEET, USE RISER DETAIL, UNLESS NOTED OTHERWISE ON PLANS.
- ② IF GROUND WATER IS PRESENT, CONTINUE PIPE UNTIL ABOVE WATER TABLE.
- ③ ALL SERVICE PIPE, BENDS, AND WYES SHALL BE SDR 26 PVC UNLESS OTHERWISE SPECIFIED.

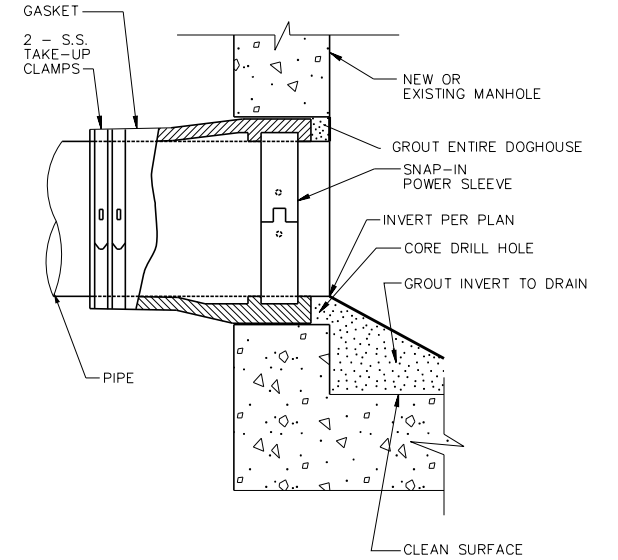
SANITARY SEWER SERVICE
NTS

DIRECT BURIAL #12 AWG, STEEL CORE SOFT DRAWN HIGH STRENGTH (380#) TRACER WIRE W/30 MIL HDPE GREEN COLOR JACKET, 30 VOLT RATING (COPPERHEAD INDUSTRIES, OR ACCEPTED EQUAL)



- ① PLACE WIRE ALONG AXIS OF PIPE AND NOT IN DIRECT CONTACT WITH PVC PIPE.
- ② EXCEPT FOR APPROVED SPLICED-IN CONNECTIONS, TRACER WIRE SHALL BE CONTINUOUS FROM END TO END.
- ③ SPLICED OR REPAIRED WIRE CONNECTIONS IN THE TRACER WIRE SYSTEM SHALL BE UL LISTED FOR DIRECT BURIAL, WATER AND CORROSION PROOF (DRYCONN KING, DRYCONN DIRECT BURY LUG OR ACCEPTED EQUAL). SPLIT-BOLT AND TWISTED WIRE SPLICES WILL NOT BE ACCEPTED.
- ④ TRACER WIRE FOR SERVICES INSTALLED WITH HORIZONTAL DIRECTIONAL DRILLING METHODS SHALL BE DIRECT BURIAL #12 AWG SOLID, STEEL CORE HARD DRAWN EXTRA HIGH STRENGTH WIRE (1150# AVERAGE TENSILE LOAD) WITH 45 MIL HDPE GREEN JACKET 30 VOLT RATING (COPPERHEAD INDUSTRIES OR ACCEPTED EQUAL)
- ⑤ PROVIDE 17# MAGNESIUM ANODE AT TRACER WIRE END. REMOVE ANODE PROTECTIVE PLASTIC COVER AND APPLY WATER AS DIRECTED BY MANUFACTURER.
- ⑥ TEST CONTINUITY OF CONDUCTION IN THE PRESENCE OF THE ENGINEER. DEMONSTRATE CONTINUITY BY CONNECTING A SIGNAL GENERATOR AT TERMINUS OF THE SYSTEM AND TRACE THE WIRE THROUGHOUT THE INSTALLATION. LOCATE AND REPAIR ANY BREAK IN CONDUCTIVITY.

SANITARY SEWER SERVICE TRACER WIRE INSTALLATION
NTS



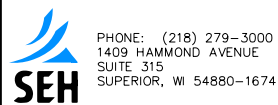
NOTE: CONNECTION TO EXISTING SANITARY SEWER MANHOLE SHALL BE CORE DRILLED WITH A SNAP IN BOOT.

WATER TIGHT SNAP-IN-SLEEVE

CORE DRILLED PIPE TO MANHOLE CONNECTION
NTS

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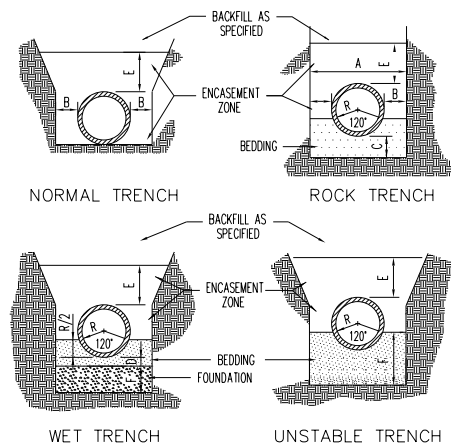


**WINTER STREET INDUSTRIAL PARK
SUPERIOR, WISCONSIN**

DETAILS

FILE NO.
SUPER0707
DATE
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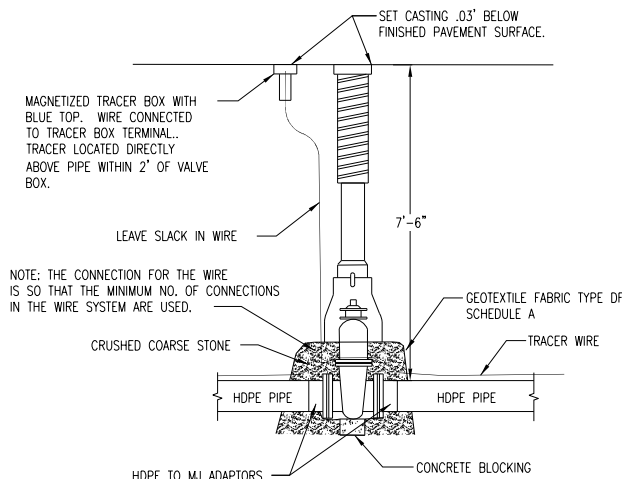
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1. DIMENSIONS: A. MAXIMUM PAY WIDTH - O.D. PIPE +24"
 B. MINIMUM - 6"
 C. 6" BELOW BARREL
 D. 3" BELOW BARREL
 E. MINIMUM 12"
 F. DETERMINED BY THE ENGINEER
 2. ENCASEMENT ZONE SHALL BE EXCAVATED MATERIALS THAT ARE CLASSIFIED SUITABLE, OR GRANULAR BACKFILL MATERIAL.
 3. FOUNDATION MATERIAL - 3" CRUSHED STONE FOR WET OR UNSTABLE TRENCH BOTTOM.
 4. BEDDING MATERIAL - CRUSHED STONE CHIPS

TRENCH SECTION FOR WATERMAIN

NTS

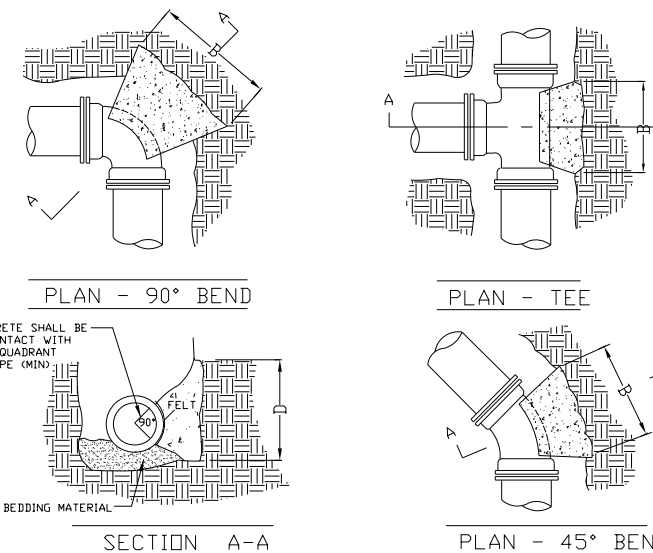


NOTE: THE CONNECTION FOR THE WIRE IS SO THAT THE MINIMUM NO. OF CONNECTIONS IN THE WIRE SYSTEM ARE USED.

- NOTES:
 1. VALVES SHALL BE CONNECTED DIRECTLY TO HDPE WITH HDPE TO MECHANICAL JOINT ADAPTORS.
 2. USE EPOXY COATING ON EXTERIOR OF VALVES.
 3. ALL BOLTS AND NUTS SHALL BE STAINLESS STEEL.
 4. FOR OPEN CUT PIPE INSTALLATIONS, ELECTROFUSION COUPLINGS ARE NOT ALLOWED FOR CONNECTION OF HDPE TO MJ ADAPTORS. FOR DIRECTIONAL DRILLED INSTALLATIONS, ONE ELECTROFUSION COUPLING MAY BE USED PER VALVE.

WATERMAIN VALVE DETAIL

NTS



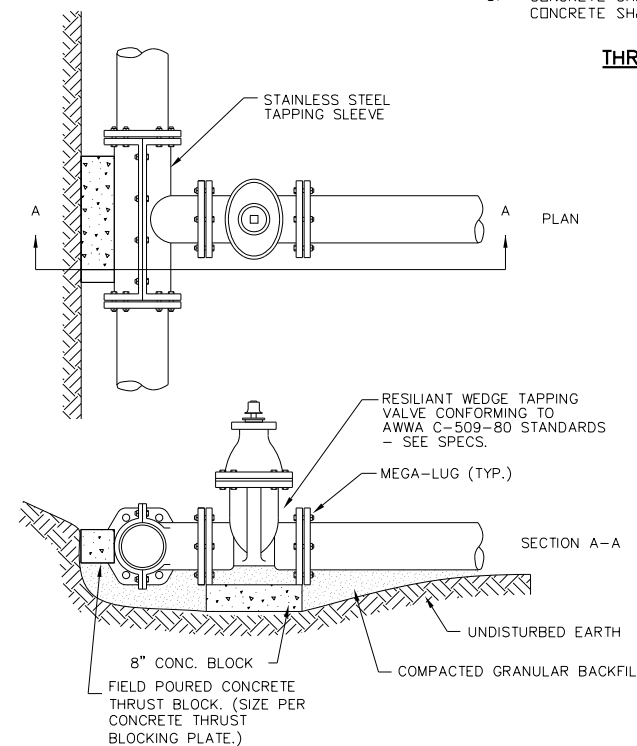
BEND OR BRANCH SIZE	BLOCKING DIMENSIONS							
	22 1/2° BENDS		45° BENDS		90° BENDS		TEES	
	B	D	B	D	B	D	B	D
6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-2"	1'-3"	1'-0"
8"	1'-0"	1'-0"	1'-4"	1'-2"	1'-10"	1'-6"	1'-6"	1'-4"
12"	1'-4"	1'-4"	1'-10"	1'-10"	2'-8"	2'-3"	2'-3"	2'-0"
16"	1'-10"	1'-8"	2'-6"	2'-4"	3'-10"	2'-10"	3'-2"	2'-4"
20"	2'-4"	2'-0"	3'-3"	2'-10"	5'-0"	3'-4"	4'-0"	3'-0"
24"	2'-10"	2'-4"	4'-0"	3'-3"	6'-4"	3'-10"	5'-3"	3'-4"
30"	3'-6"	3'-0"	5'-4"	3'-10"	8'-0"	4'-8"	6'-3"	4'-3"

- NOTES -

1. DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 P.S.I. AND AN EARTH RESISTANCE OF 2 TONS PER SQ. FOOT
 2. BLOCKING TO BE SET AGAINST UNDISTURBED SOIL.
 3. CONCRETE SHALL BE CLASS "IF" CONCRETE SHALL NOT INTERFERE WITH MECHANICAL JOINTS.

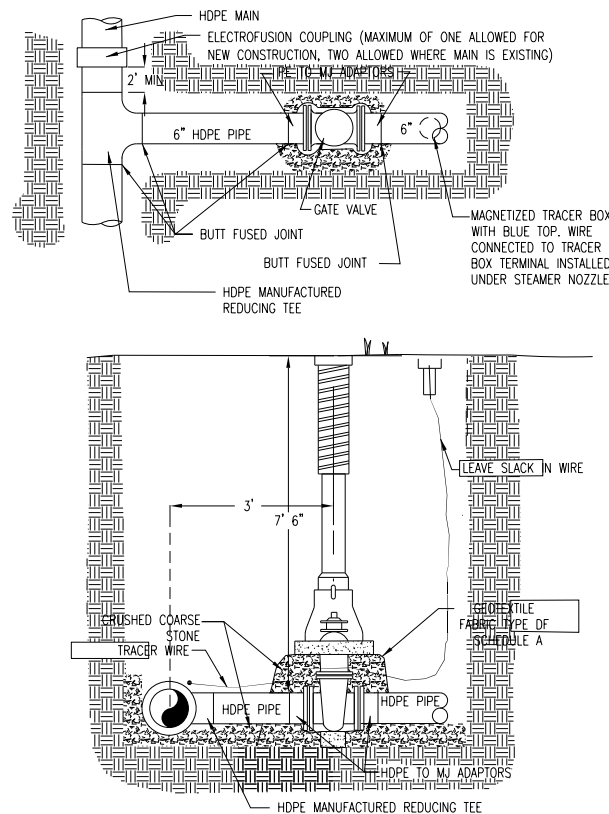
THRUST BLOCKING FOR WATERMAIN

NTS



WATER MAIN WET TAP

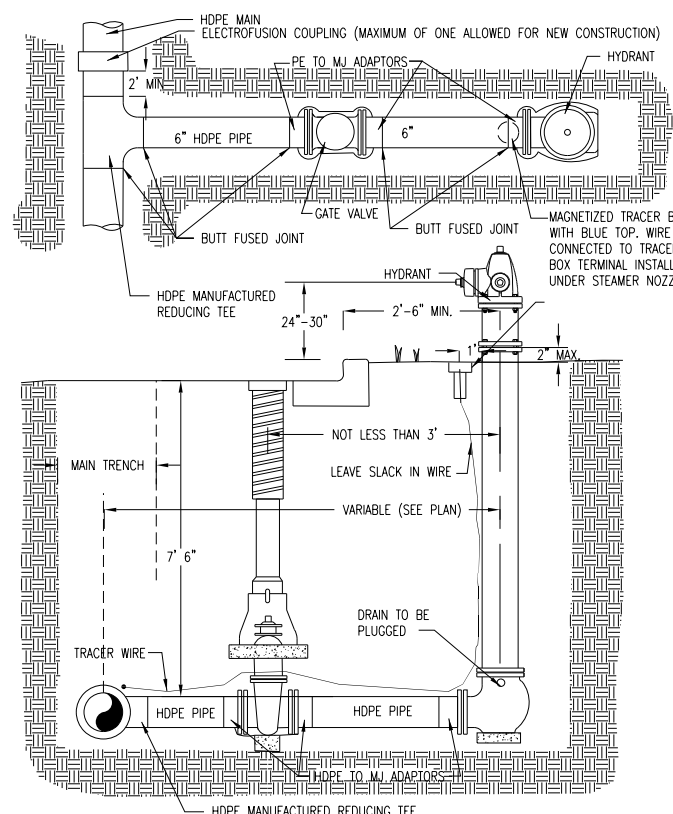
NTS



- NOTES:
 1. VALVES SHALL BE CONNECTED DIRECTLY TO MECHANICAL JOINT ADAPTORS.
 2. ALL BOLTS AND NUTS SHALL BE STAINLESS STEEL.

COMMERCIAL / INDUSTRIAL WATER SERVICE CONNECTION

NTS



- NOTES:
 1. VALVES SHALL BE CONNECTED DIRECTLY TO MECHANICAL JOINT ADAPTORS.
 2. USE EPOXY COATING ON VALVE AND HYDRANT BASE.
 3. ALL BOLTS AND NUTS SHALL BE STAINLESS STEEL.

FIRE HYDRANT SETTING DETAILS

NTS

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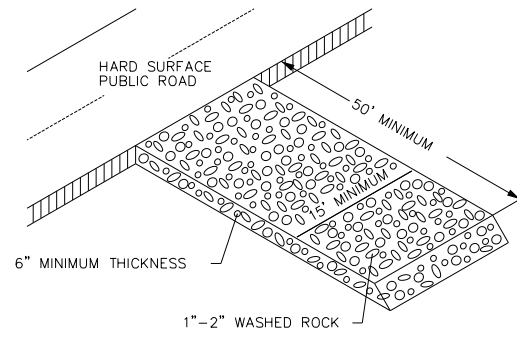
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WINTER STREET INDUSTRIAL PARK SUPERIOR, WISCONSIN

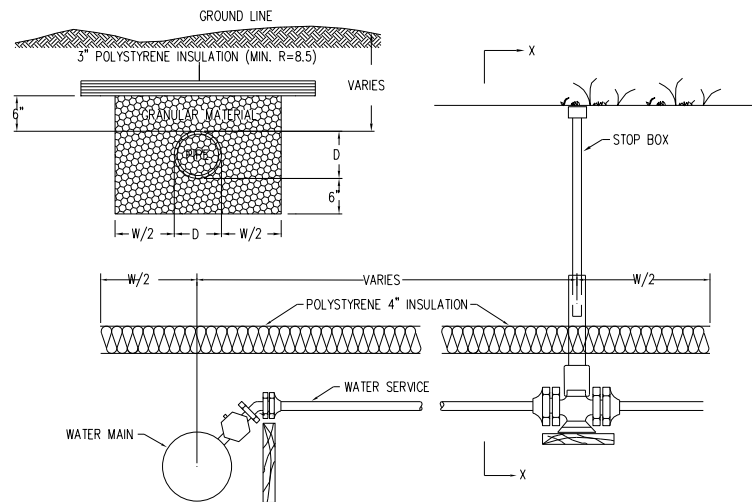
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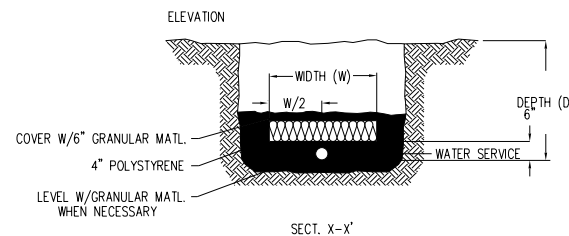
NOTE: TO PREVENT TRACKING OF MUD ONTO PAVED ROADS, INSTALL ADDITIONAL ROCK OR REMOVE AND REPLACE THE PAD AS REQUIRED AS TO MAINTAIN A CLEAN AND SAFE ROADWAY SURFACE.

ROCK CONSTRUCTION ENTRANCE
NTS

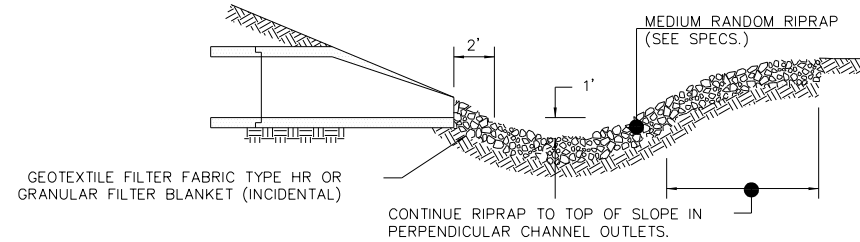
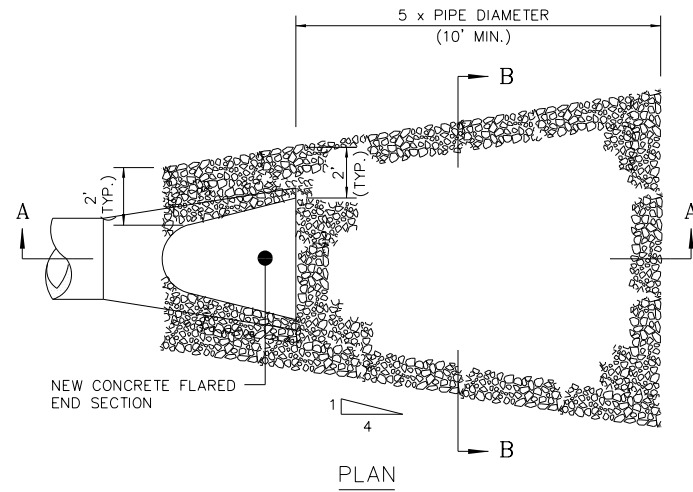
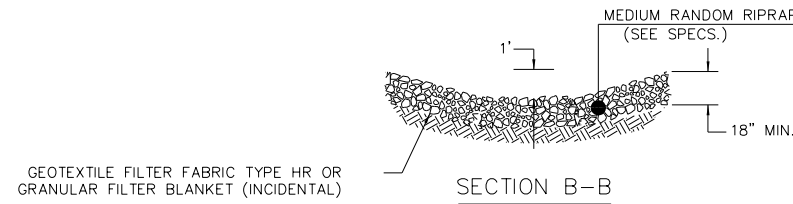


DEPTH (D)	WIDTH (W)
7.0' OR MORE	NONE
5.2' TO 6.9'	4 FEET
4.3' TO 5.1'	6 FEET
3.0' TO 4.2'	8 FEET

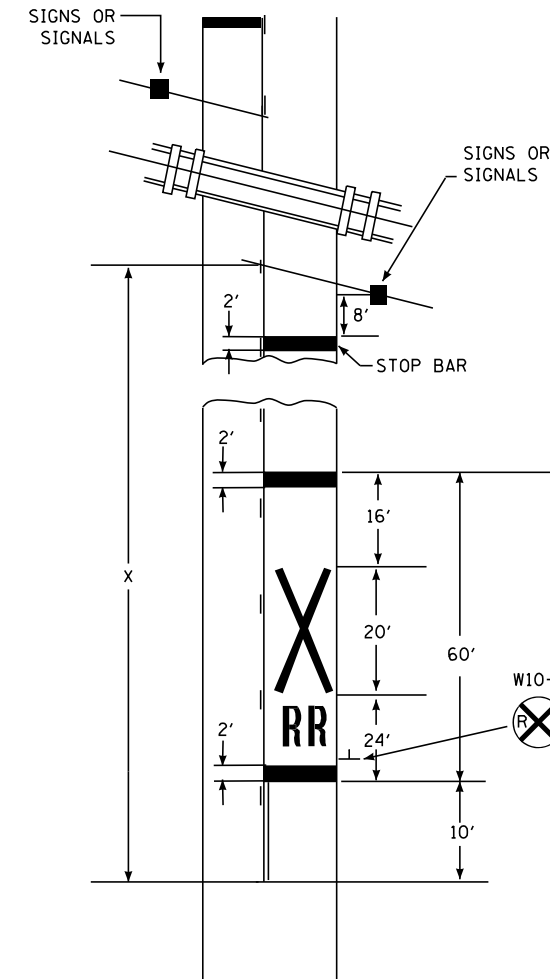
- NOTES:
- LAYERING OF 1", 1 1/2", 2" TO ARRIVE AT 3" IS PERMITTED. OFFSET JOINTS.
 - POLYSTYRENE SHALL BE HI DENSITY DOW HI 40 OR CERTIFOAM 40



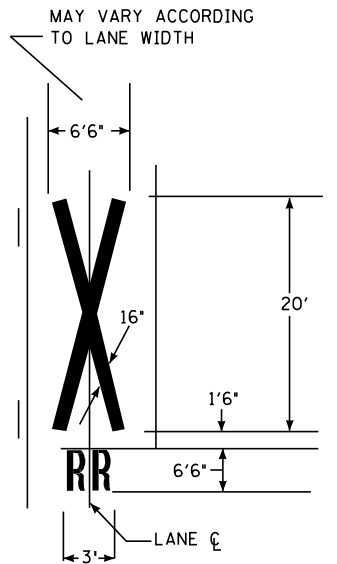
WATERMAIN & SERVICE INSULATION DETAIL
NTS



RIPRAP AND FLARED END SECTION DETAIL
NTS



SPEED LIMIT	X
25	150'
30	200'
35	250'
40	300'



NOTES:

- THE DISTANCE FROM THE RAILROAD CROSSING MARKING TO THE NEAREST TRACK WILL VARY ACCORDING TO THE APPROACH SPEED AND SIGHT DISTANCE OF THE VEHICULAR TRAFFIC APPROACHING, BUT SHOULD NOT BE LESS THAN 50 FEET.
- ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.
- THE STOP LINE MAY BE PARALLEL TO AND 15 FEET FROM THE TRACKS WHERE THERE ARE RAILROAD CROSSBUCK SIGNS.

MARKINGS FOR RAILROAD CROSSINGS
NTS

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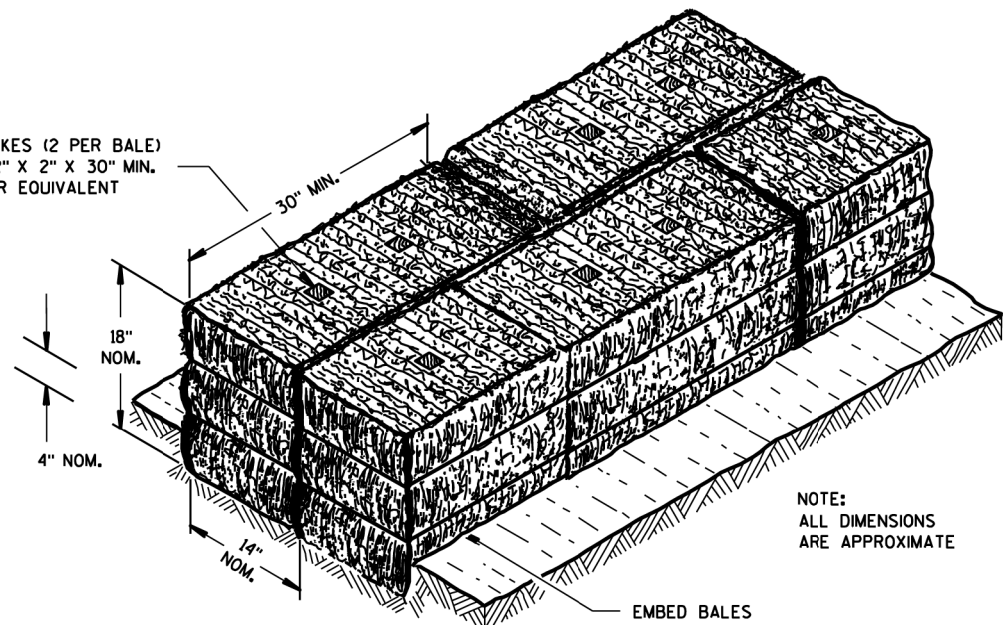
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**WINTER STREET INDUSTRIAL PARK
SUPERIOR, WISCONSIN**

DETAILS

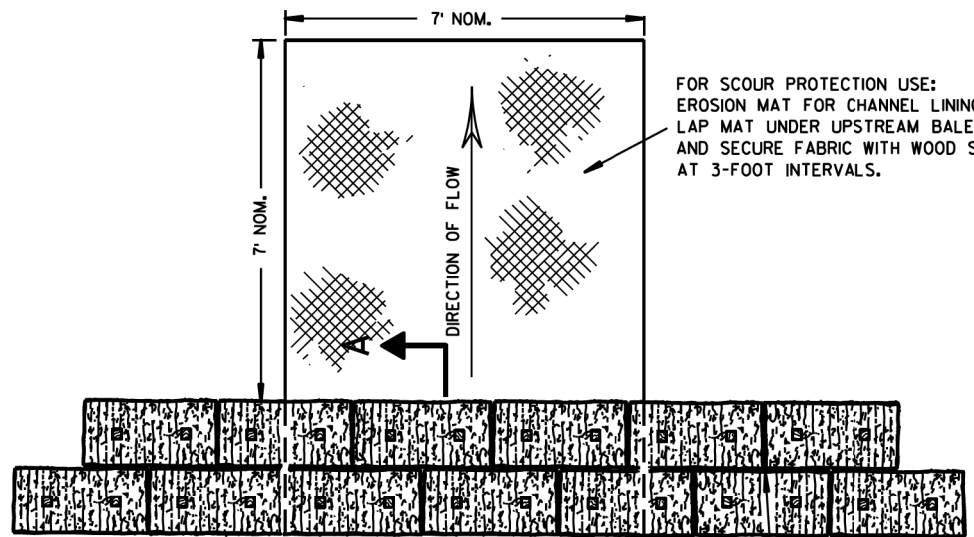
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WOOD STAKES (2 PER BALE)
NOMINAL 2" X 2" X 30" MIN.
LENGTH OR EQUIVALENT



NOTE:
ALL DIMENSIONS
ARE APPROXIMATE

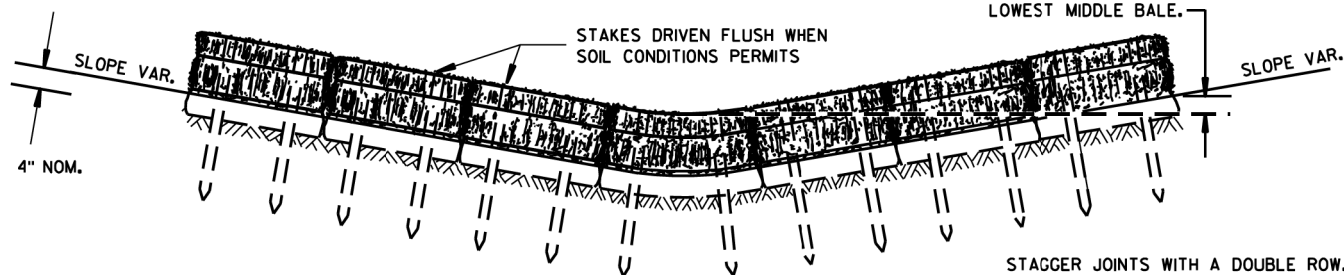
SECTION A-A



PLAN VIEW

STAGGER JOINTS BETWEEN ADJACENT ROWS OF BALES.

BOTTOM ELEVATION OF END BALE SHALL BE EQUAL TO OR GREATER THAN TOP OF LOWEST MIDDLE BALE.



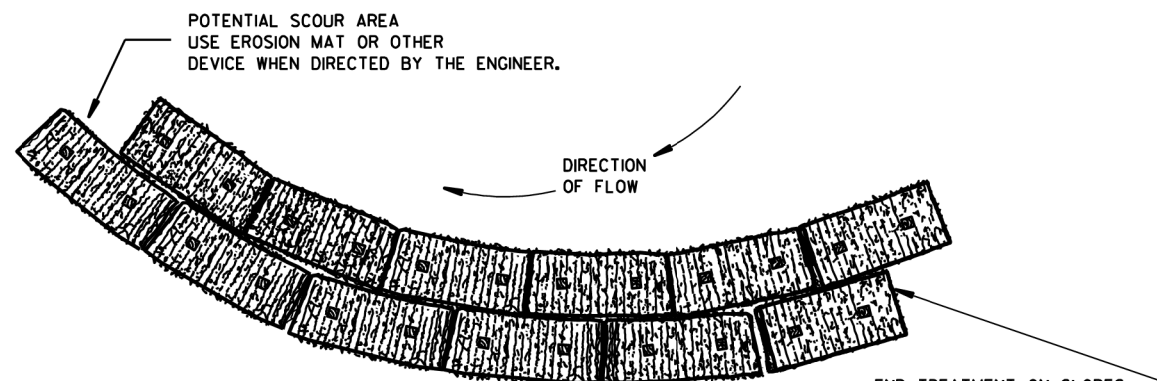
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

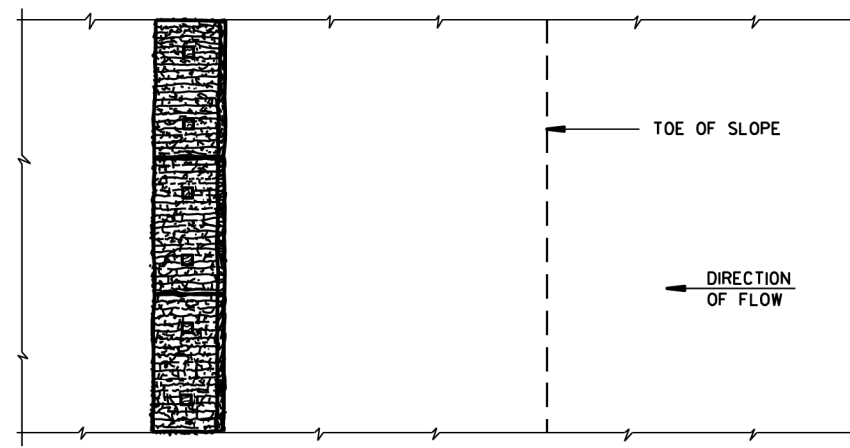
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

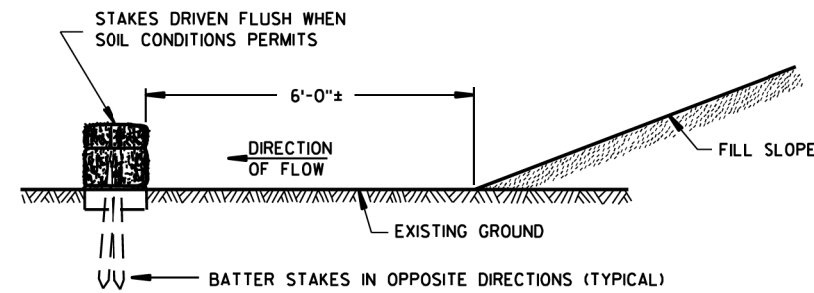


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

RECORD DRAWING 2013
NOT UPDATED

TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE _____ CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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CHECKED BY: SSW/MJB				
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SUITE 315
SUPERIOR, WI 54880-1674

WINTER STREET INDUSTRIAL PARK
SUPERIOR, WISCONSIN

DETAILS

FILE NO.
SUPER0707

12

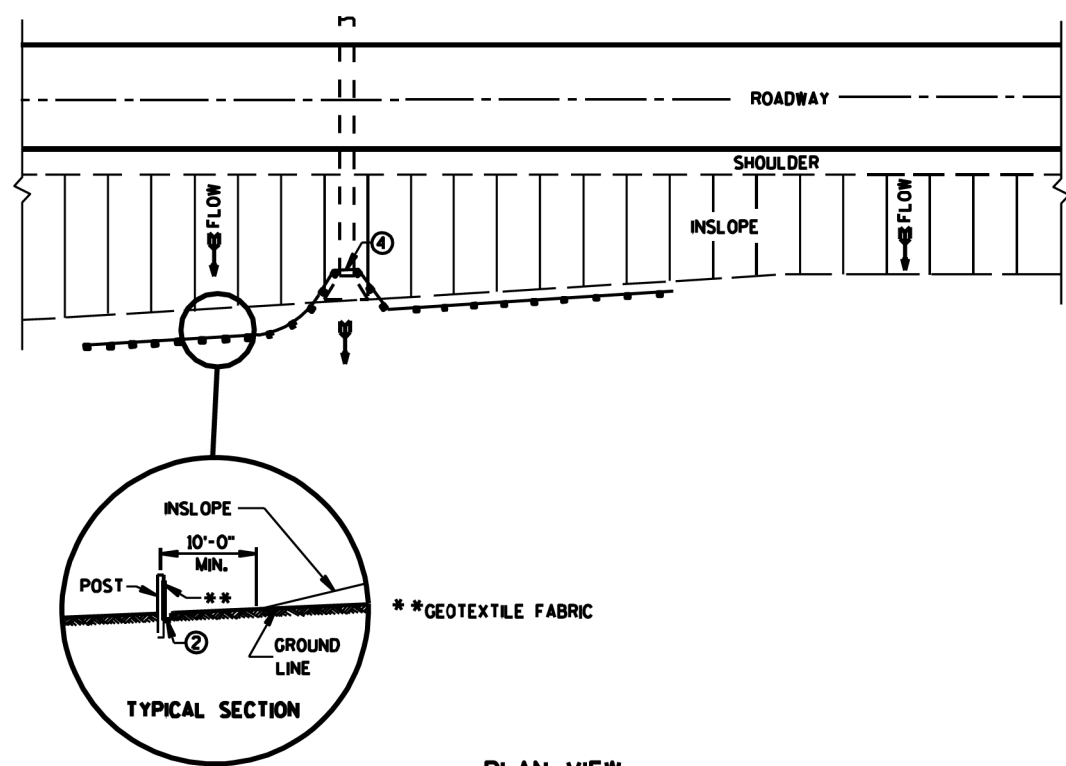
DATE
6/18/2013

64

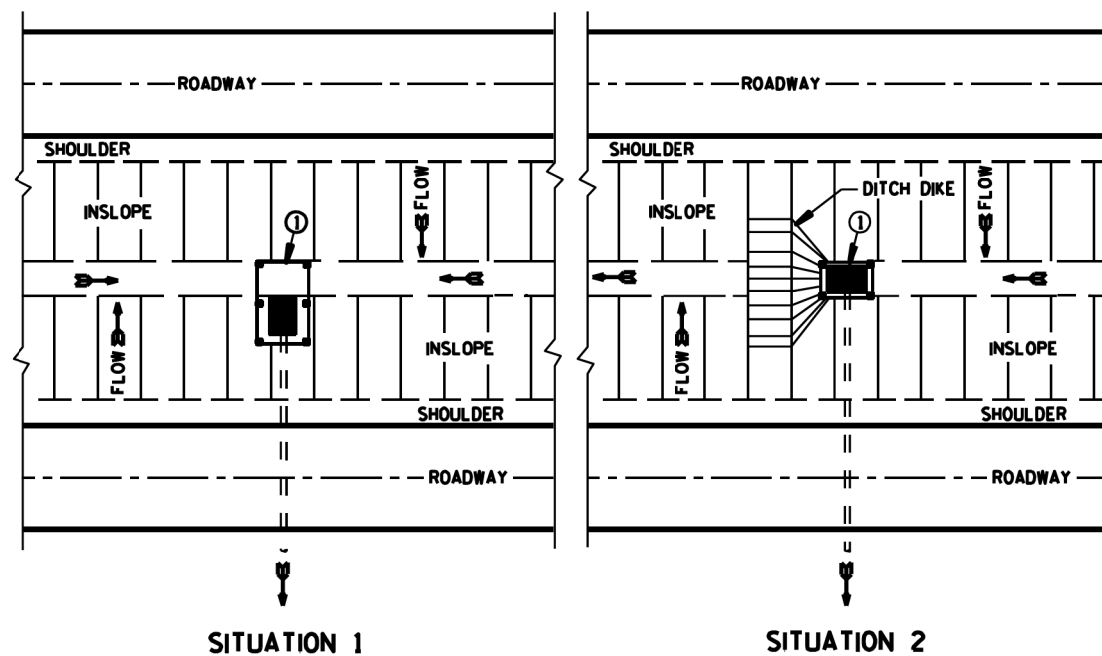
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PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE

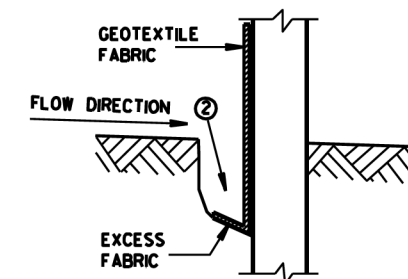


SITUATION 1 SITUATION 2
PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

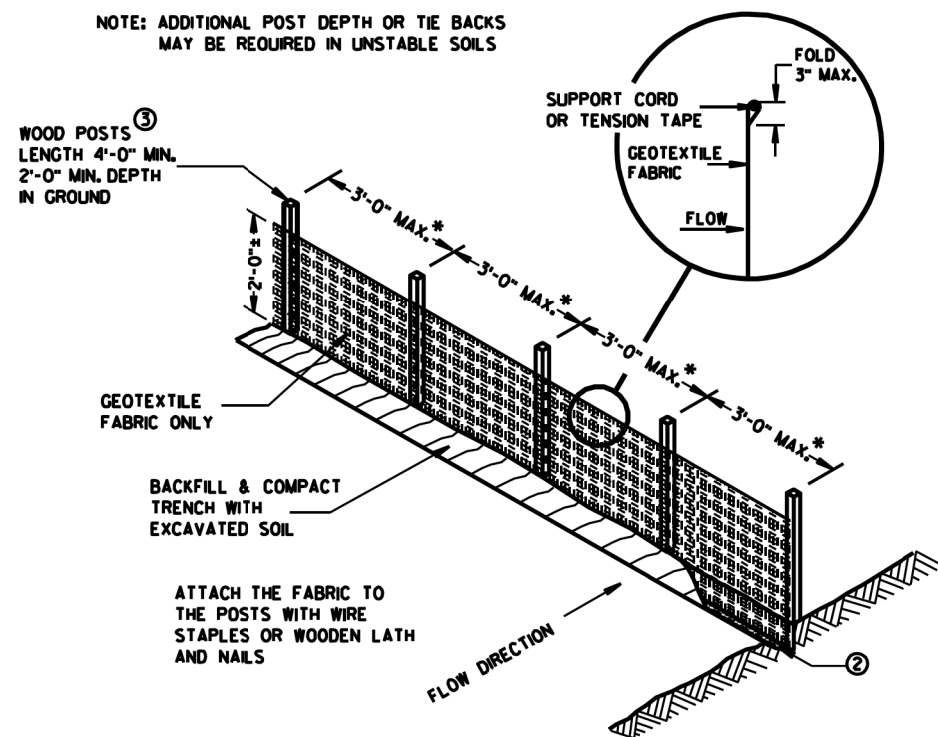
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

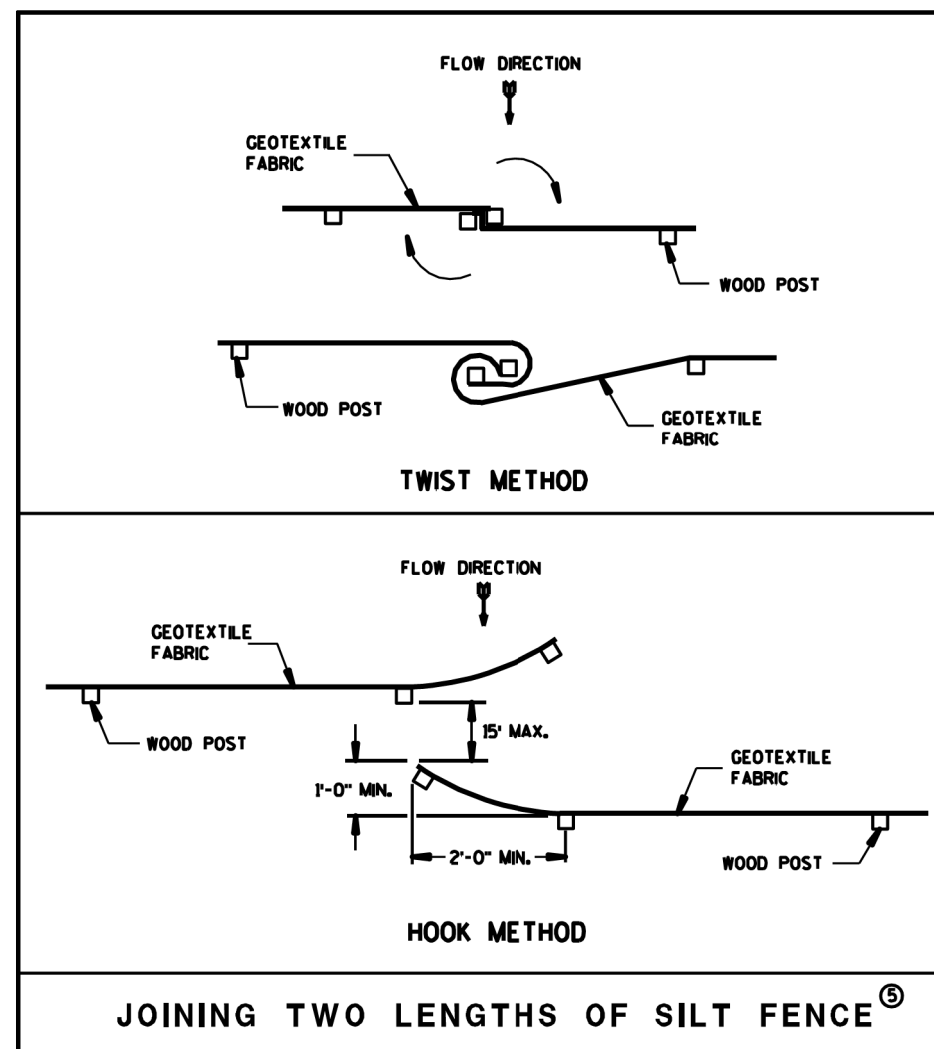


TRENCH DETAIL

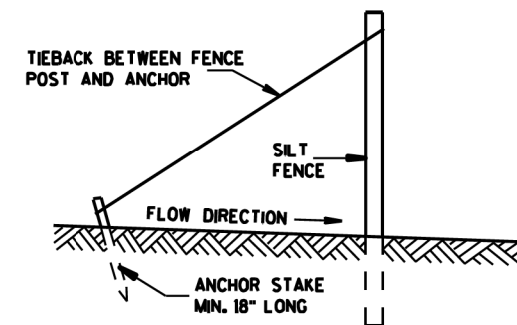


SILT FENCE

* NOTE: 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.



JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

RECORD DRAWING 2013
NOT UPDATED

SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
DATE	CHIEF ROADWAY DEVELOPMENT ENGINEER
FWWA	

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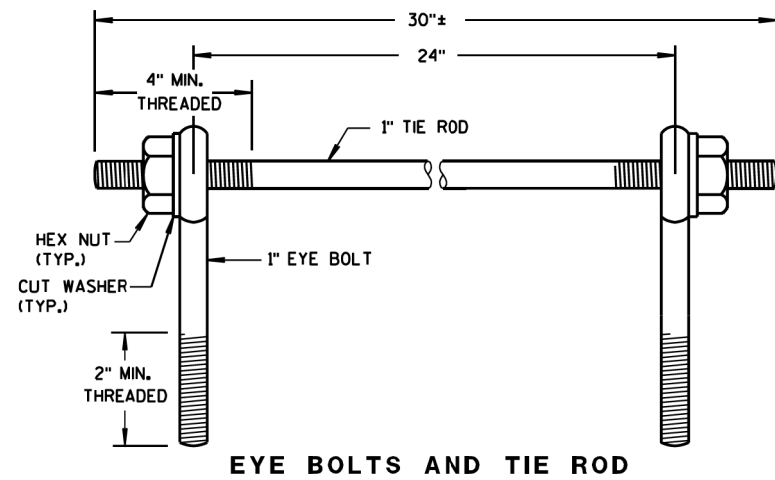
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DATE 6/18/2013	64

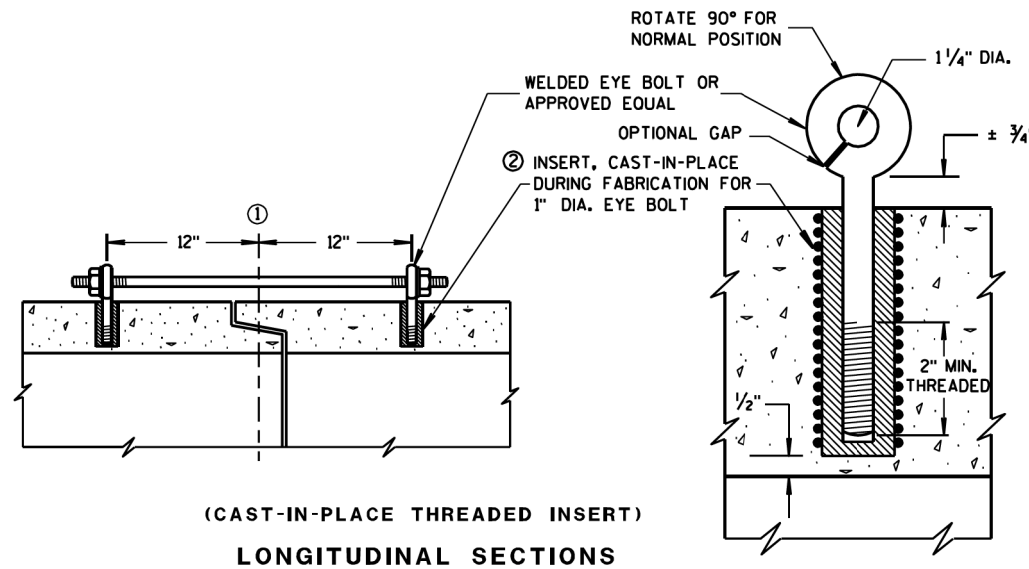
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EYE BOLTS AND TIE ROD



LONGITUDINAL SECTIONS (CAST-IN-PLACE THREADED INSERT)

GENERAL NOTES

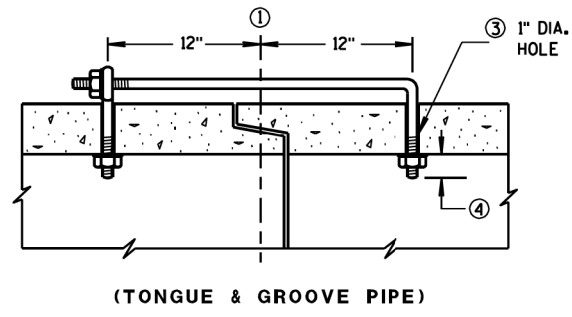
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED ON THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES. UNLESS OTHERWISE STATED IN THE CONTRACT THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE CULVERT PIPE AS INDICATED ON THE PLANS AND BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO CULVERT PIPE, REINFORCED CONCRETE CULVERT PIPE, OR REINFORCED CONCRETE PIPE CATTLE PASS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

- ① ϕ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- ② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.
- ③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ϕ OF TONGUE AND GROOVE.
- ④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- ⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)



(TONGUE & GROOVE PIPE)

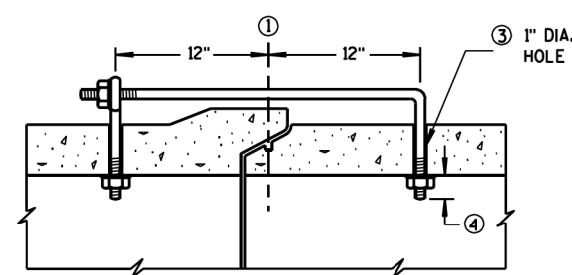
EYE BOLT DIMENSION TABLE

PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	

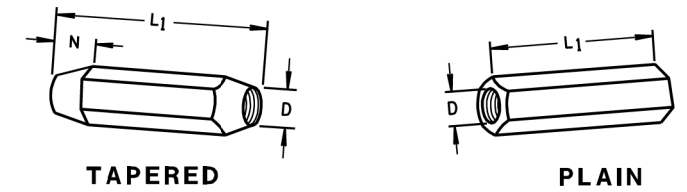
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/8

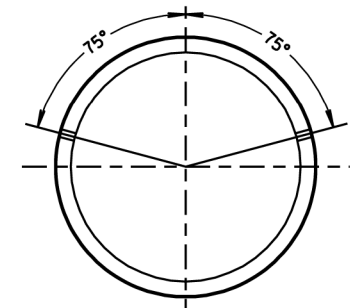
DIMENSIONS SHOWN ARE IN INCHES



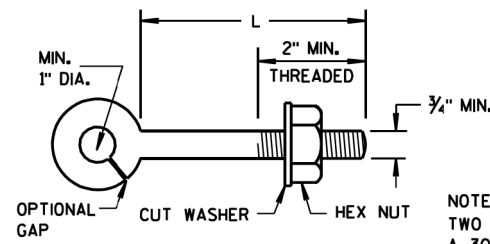
(MODIFIED BELL PIPE) LONGITUDINAL SECTION



TAPERED PLAIN SLEEVE NUTS RIGHT AND LEFT THREADS

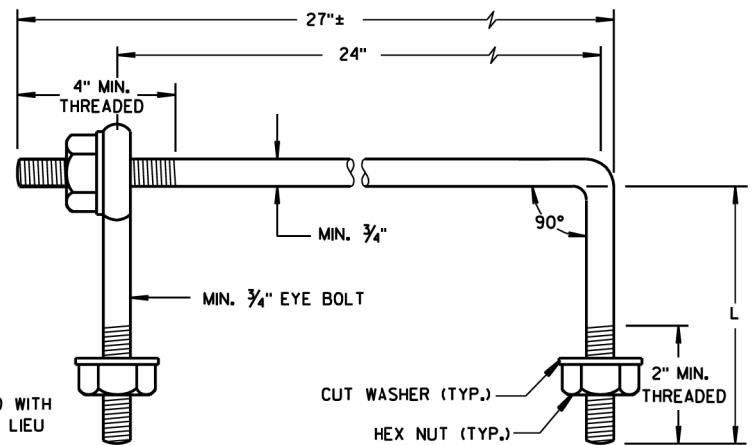


TRANSVERSE SECTION



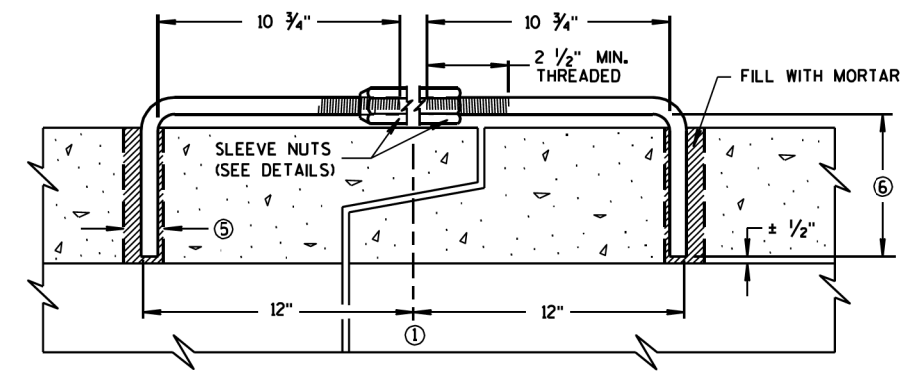
EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2) (JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)



LONGITUDINAL SECTION (JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE) ADJUSTABLE TIE ROD (ALTERNATE NO. 3)

RECORD DRAWING 2013 NOT UPDATED

JOINT TIES FOR CONCRETE PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 12/17/07 DATE /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

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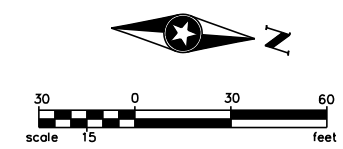
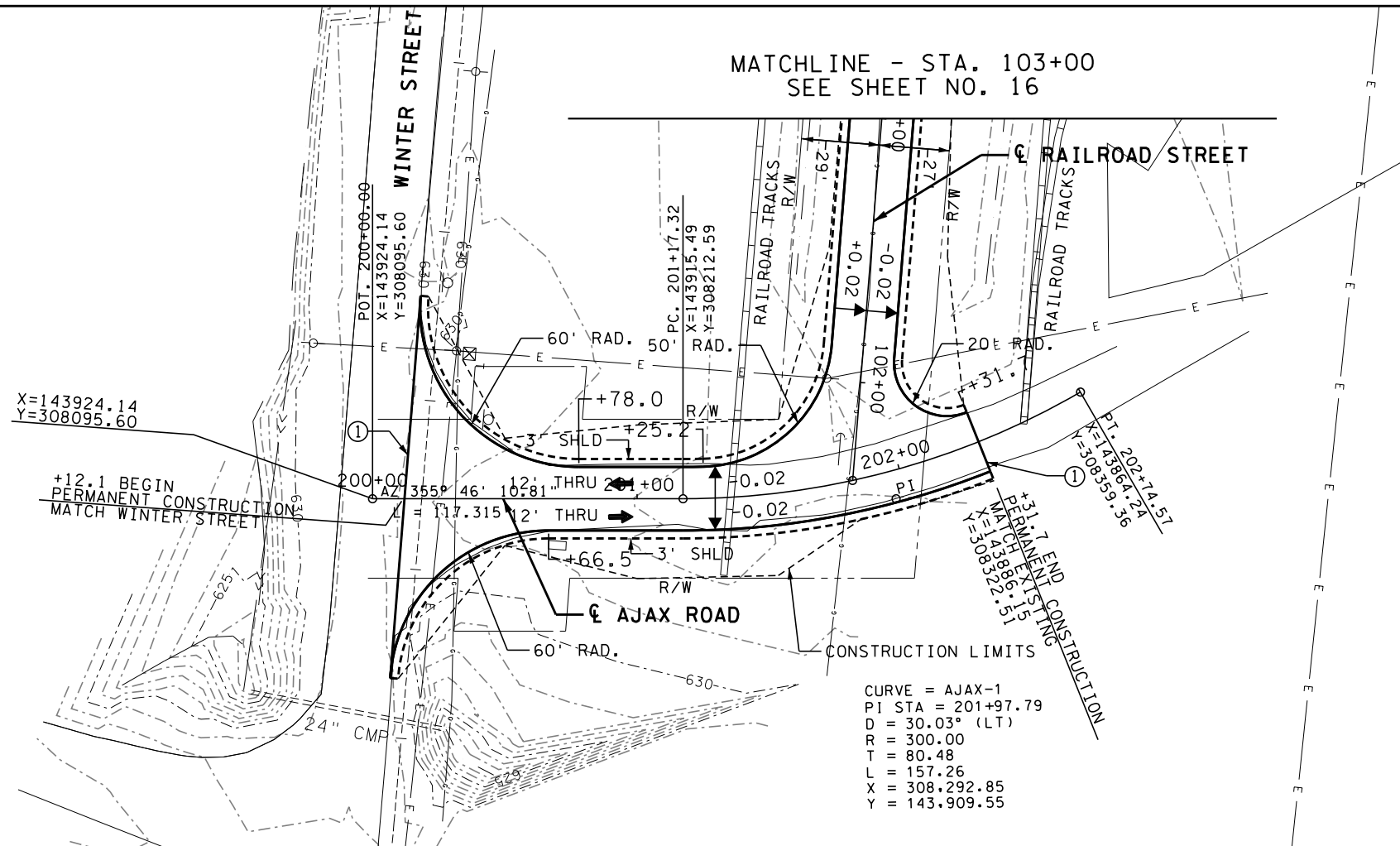
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DATE 6/18/2013	64

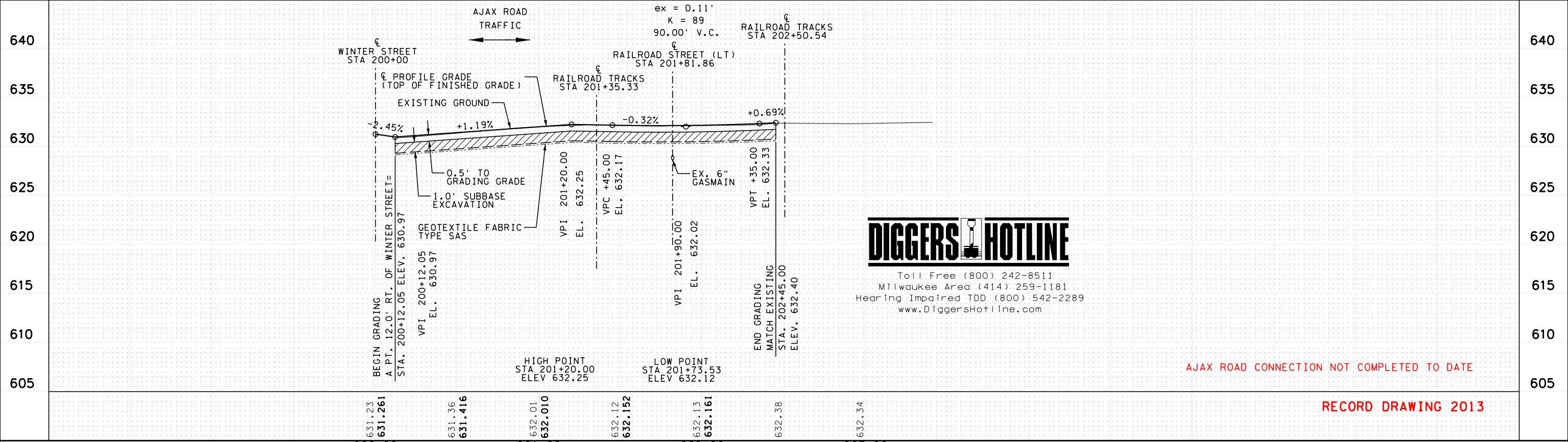
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NOTES:
① SAWCUT



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AJAX ROAD CONNECTION NOT COMPLETED TO DATE

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WINTER STREET INDUSTRIAL PARK
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CONSTRUCTION
PLAN AND PROFILE
STA 200+00 TO STA 202+00

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DATE 6/18/2013	64

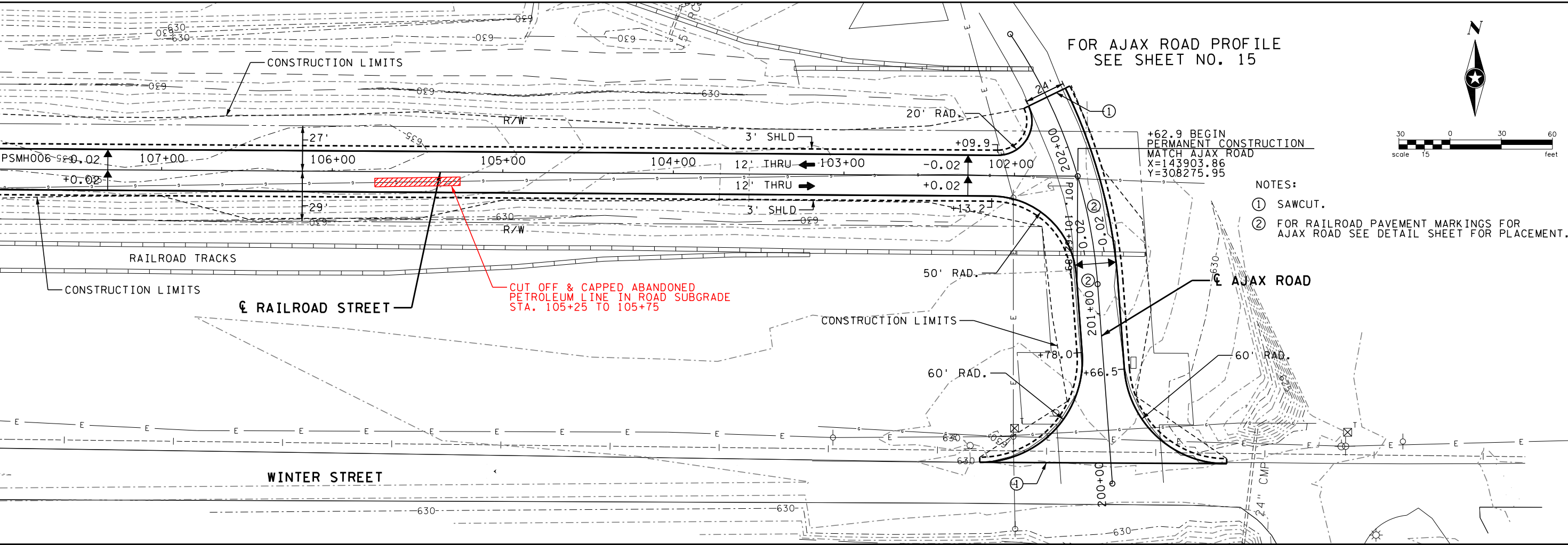
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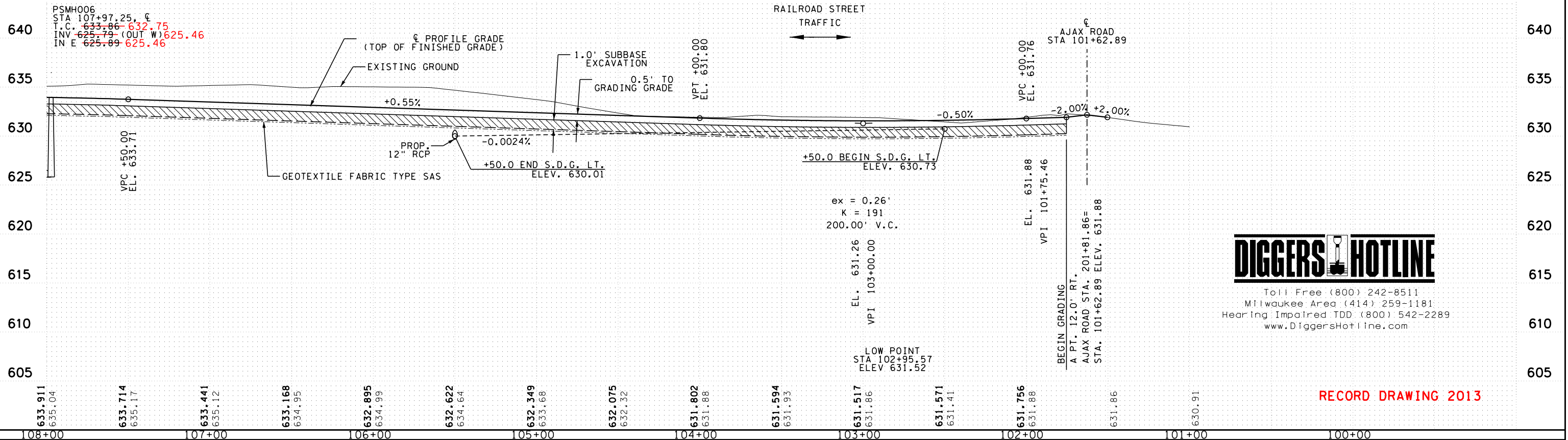
MATCHLINE - STA. 108+00
SEE SHEET NO. 17

FOR AJAX ROAD PROFILE
SEE SHEET NO. 15



NOTES:

- ① SAWCUT.
- ② FOR RAILROAD PAVEMENT MARKINGS FOR AJAX ROAD SEE DETAIL SHEET FOR PLACEMENT.



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WINTER STREET INDUSTRIAL PARK SUPERIOR, WISCONSIN

CONSTRUCTION
PLAN AND PROFILE
STA 100+00 TO STA 108+00

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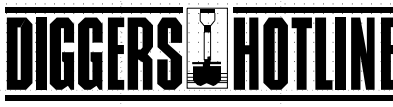
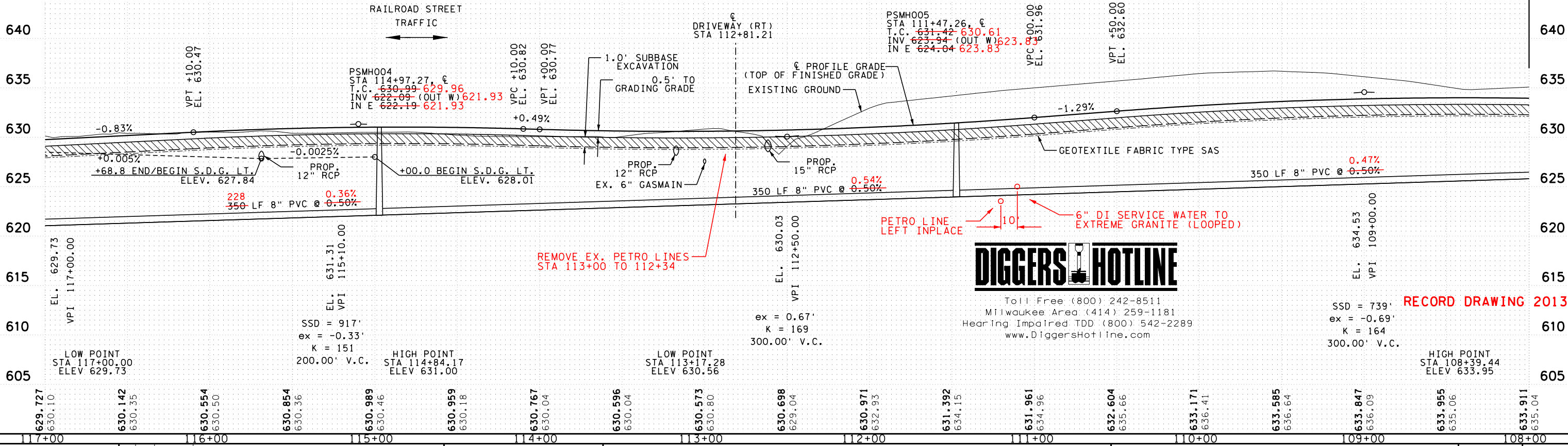
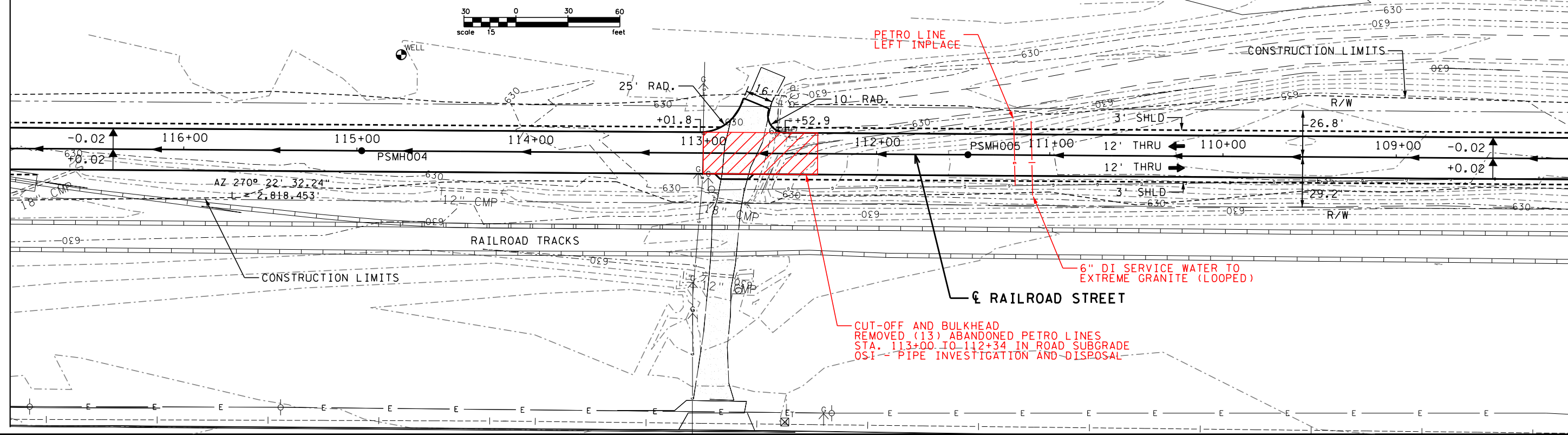
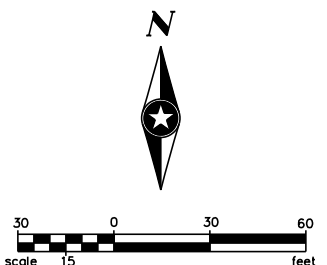
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MATCHLINE - STA. 108+00
SEE SHEET NO. 16



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SSD = 739' **RECORD DRAWING 2013**
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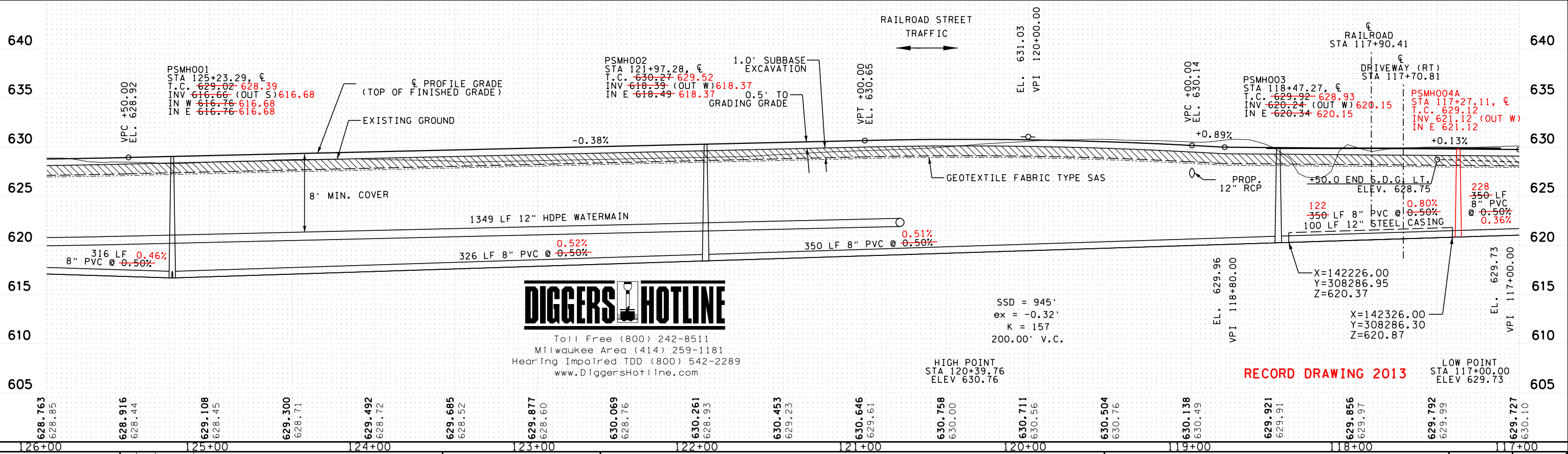
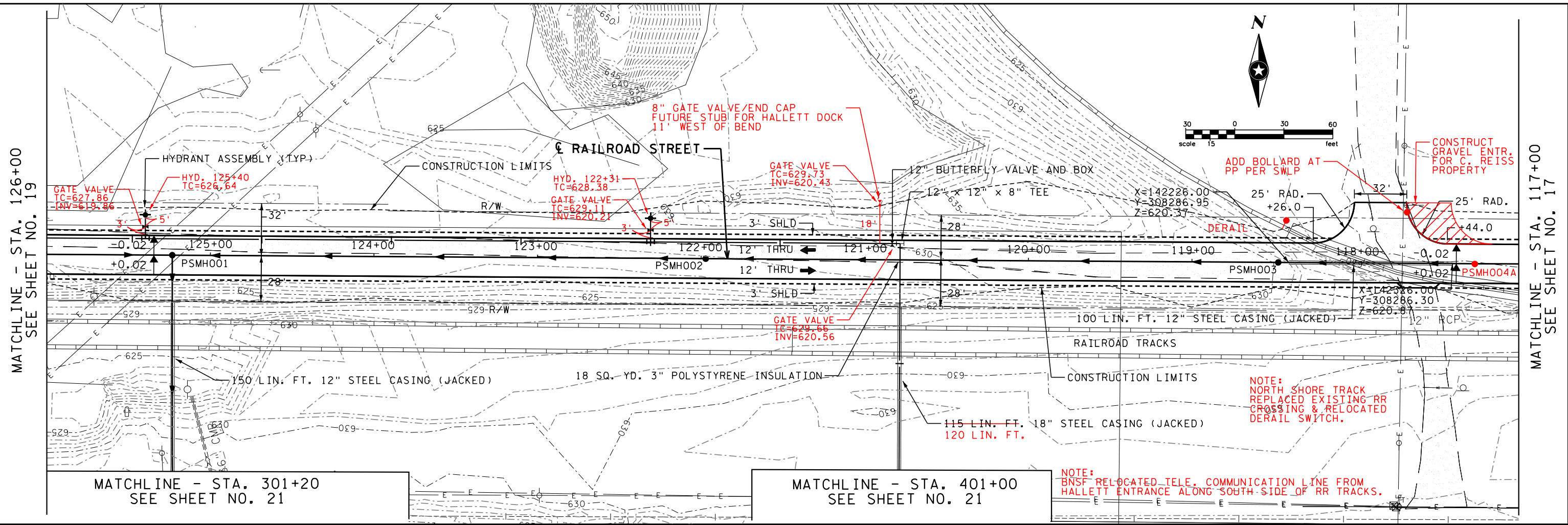
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**CONSTRUCTION
 PLAN AND PROFILE
 STA 108+00 TO STA 117+00**

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DATE 6/18/2013	64

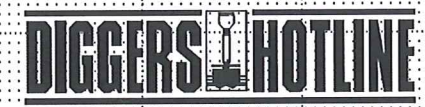
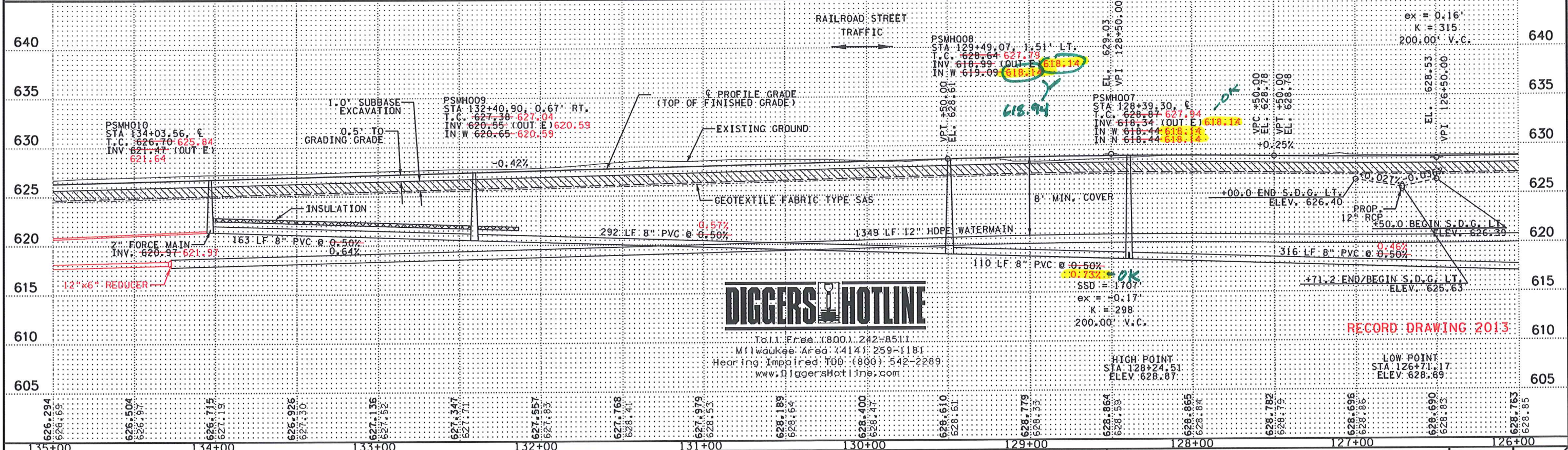
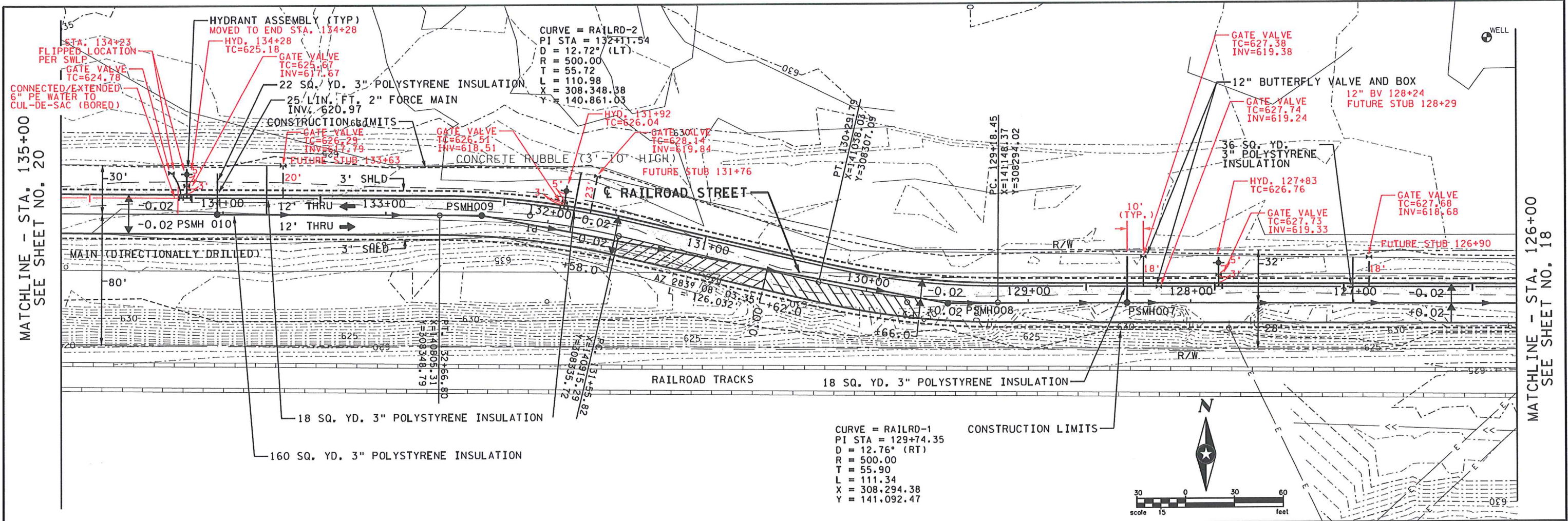


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6/24/2013

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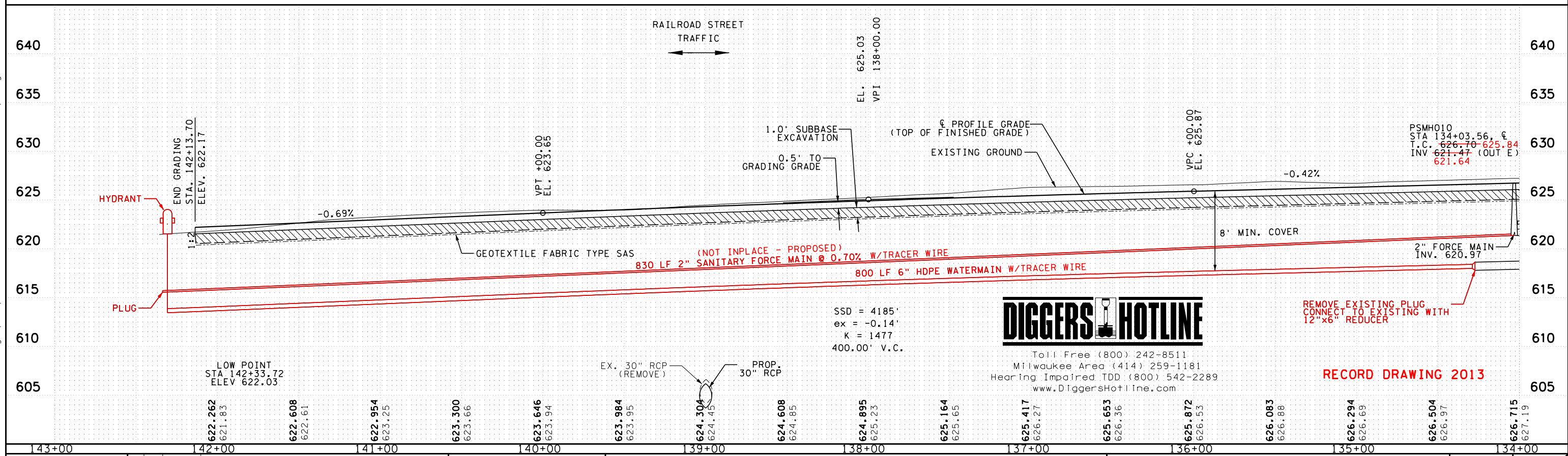
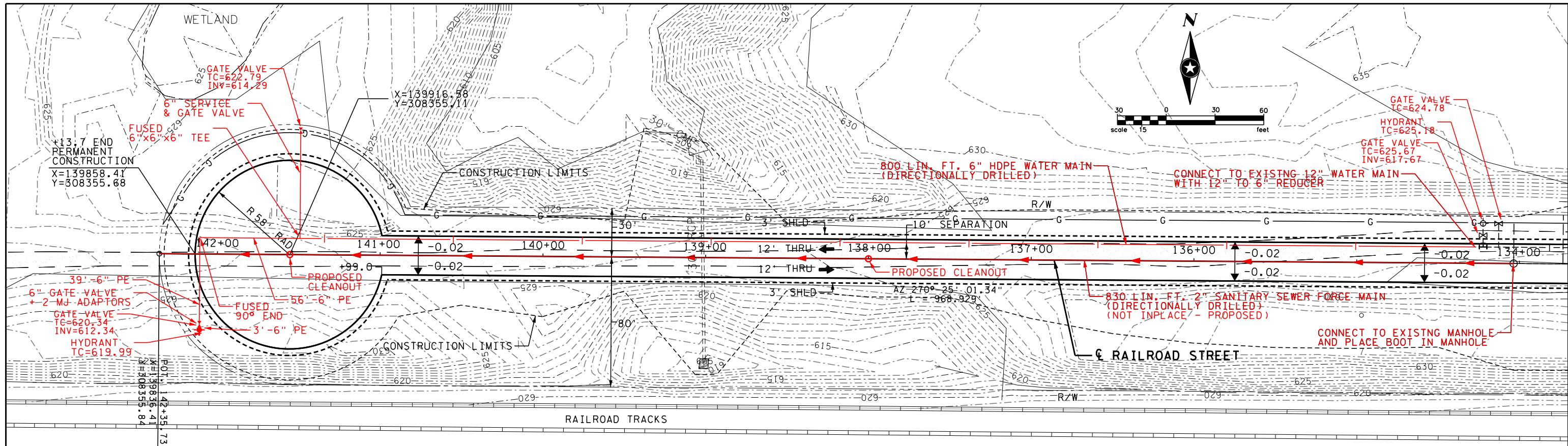
CONSTRUCTION
 PLAN AND PROFILE
 STA 126+00 TO STA 135+00

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DATE	6/24/2013	64

6/24/2013

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**CONSTRUCTION
 PLAN AND PROFILE**
 STA 134+00 TO PROJECT END

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DATE	6/24/2013	64

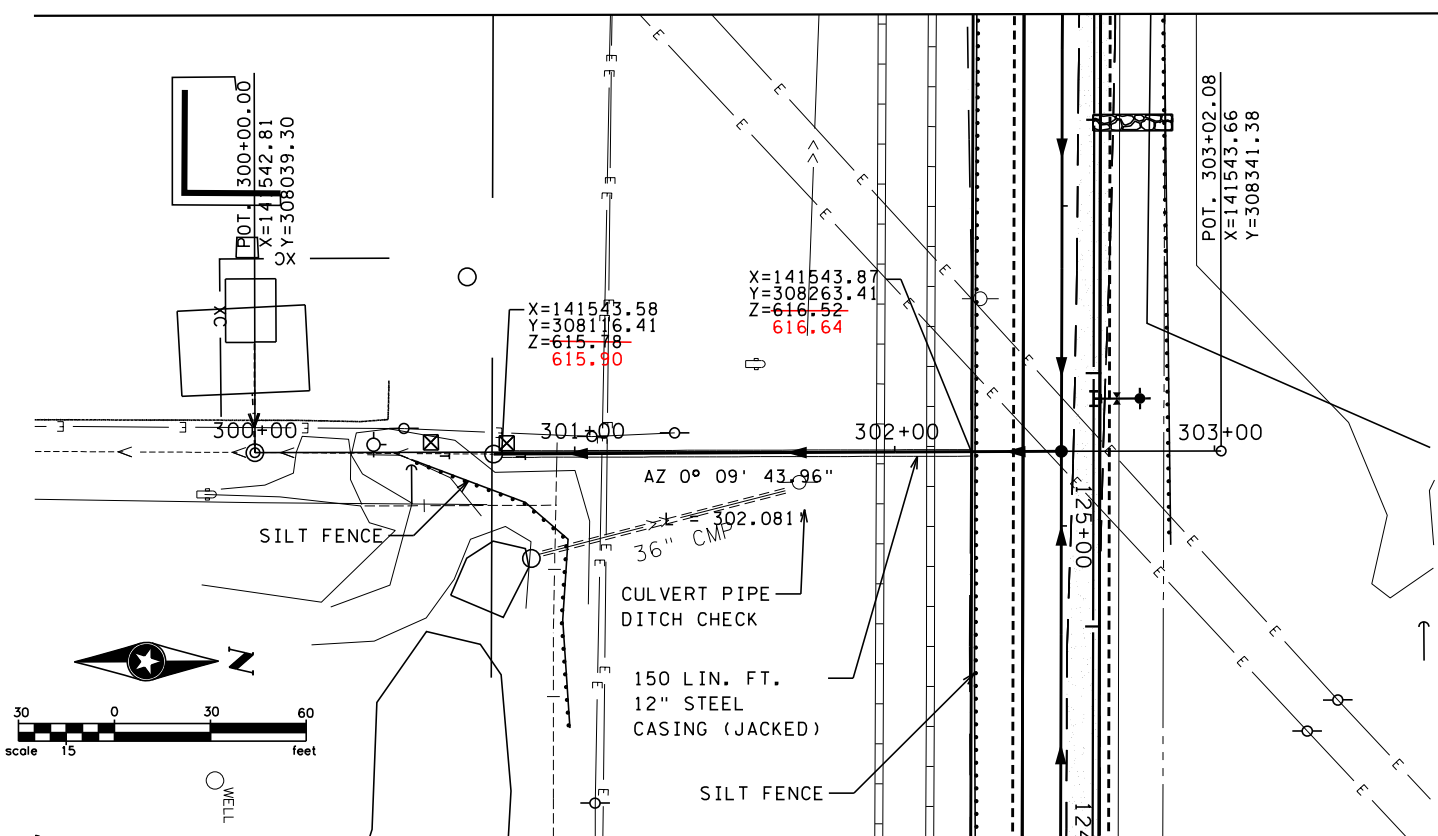
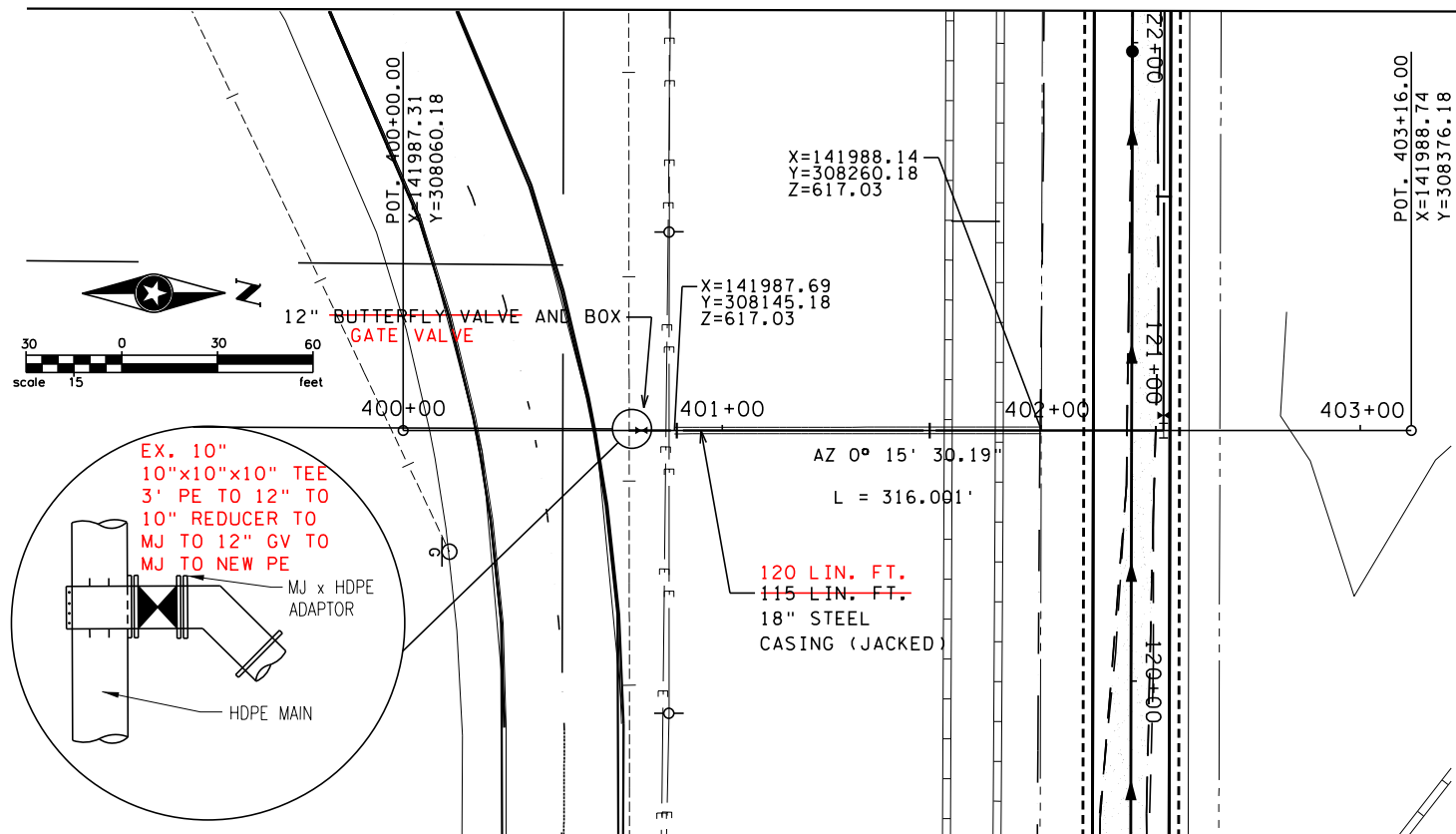


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MATCHLINE - STA. 126+60
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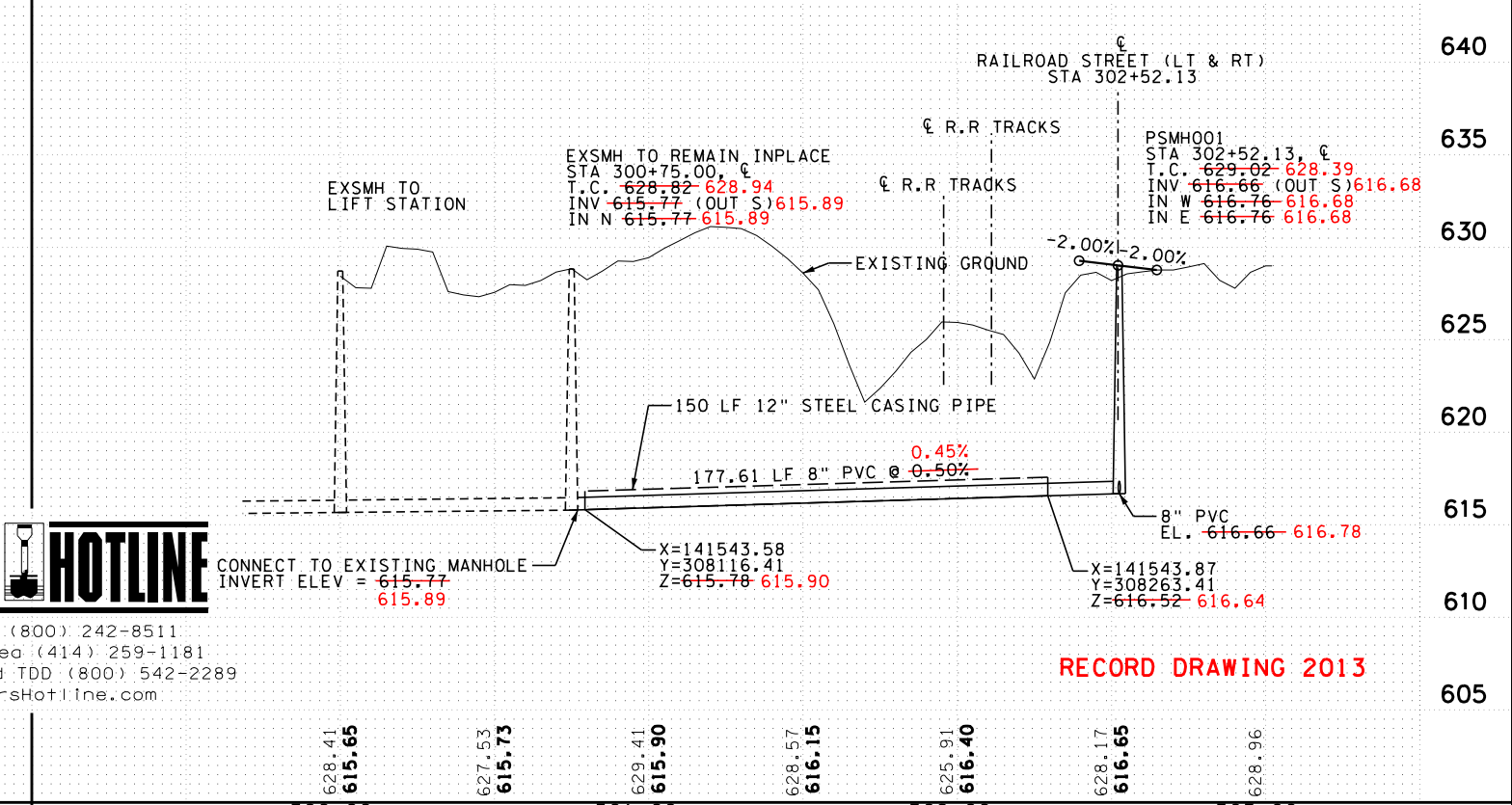
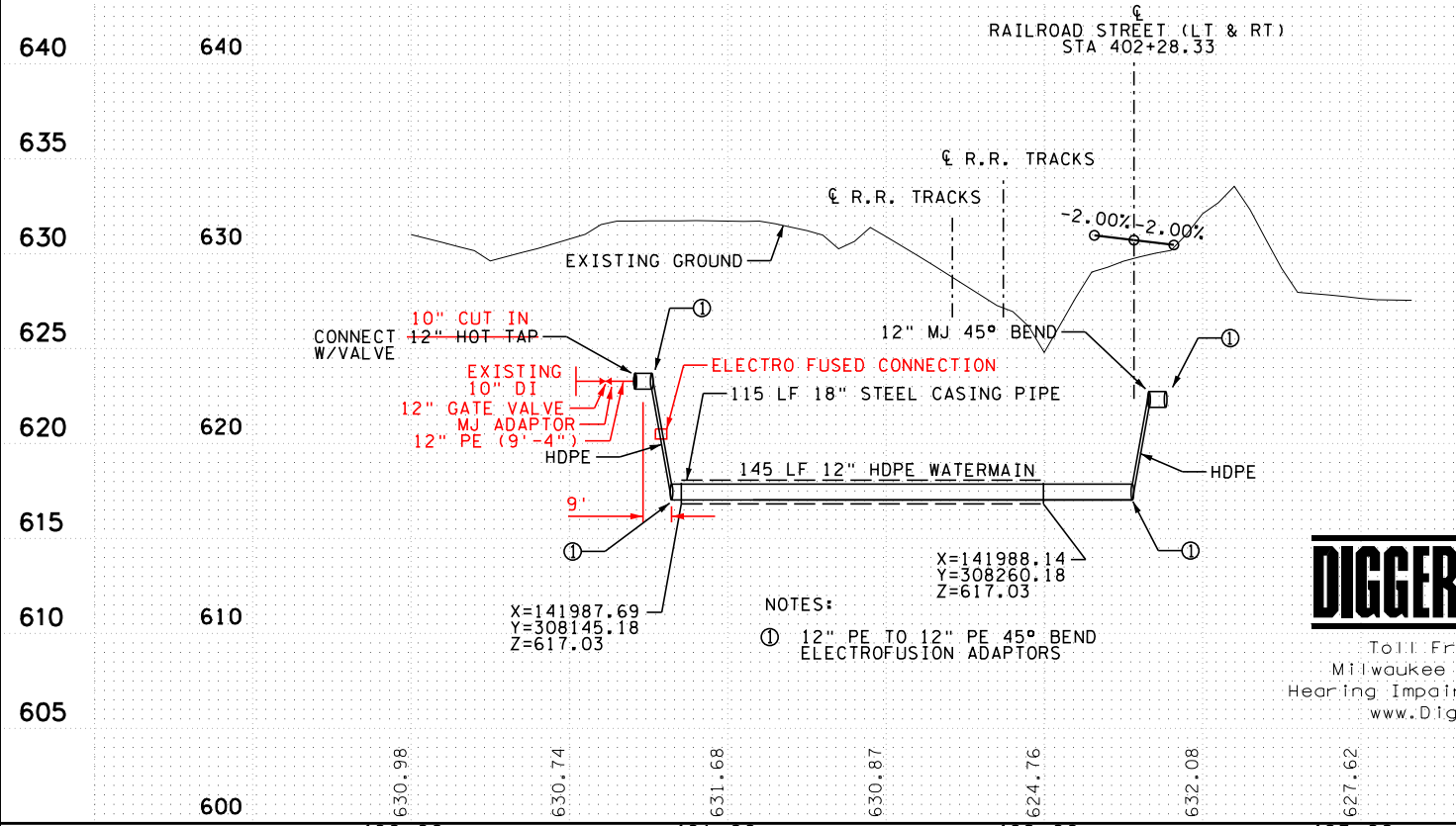


WATERMAIN CONNECTION

MATCHLINE - STA. 119+50
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SANITARY SEWER CONNECTION

MATCHLINE - STA. 124+00
SEE SHEET NO. 18



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WATERMAIN AND SANITARY SEWER
PLAN AND PROFILE
STA 400+00 AND STA 300+00

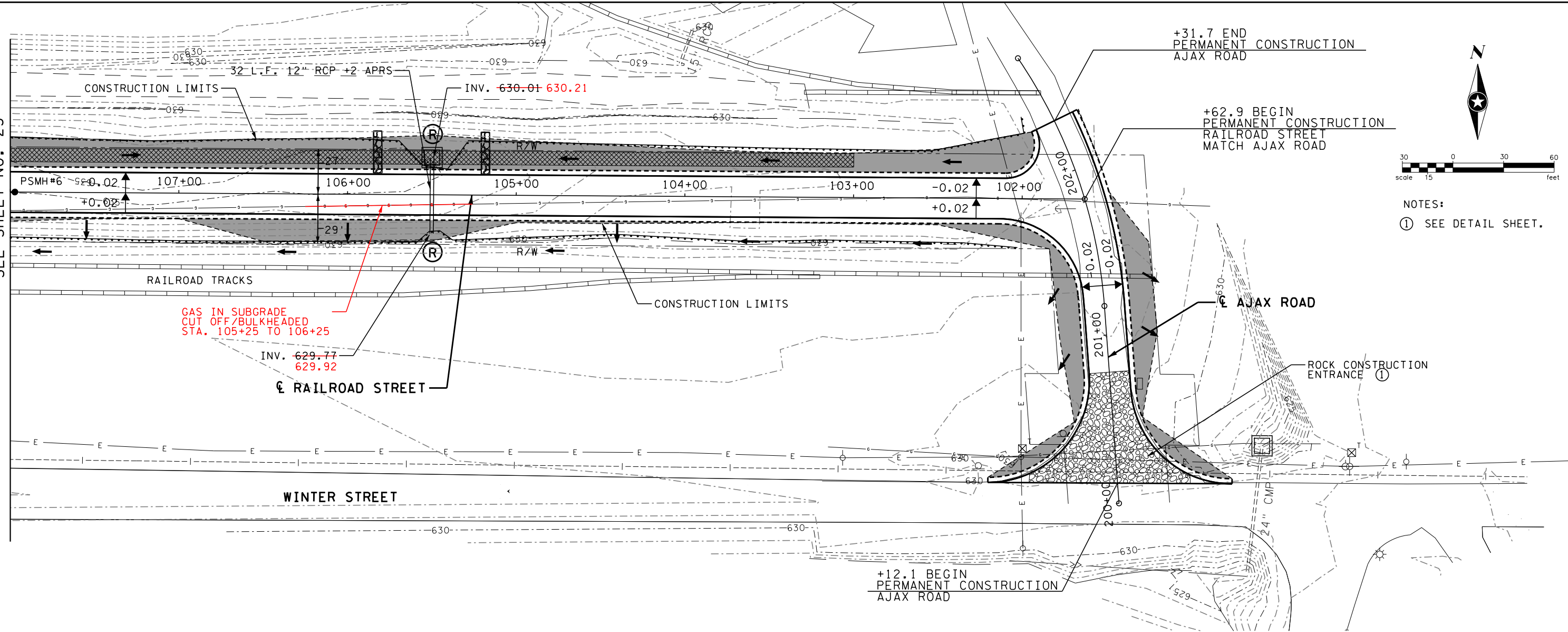
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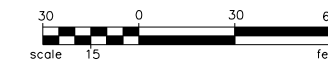
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MATCHLINE - STA. 108+00
SEE SHEET NO. 23



+31.7 END
PERMANENT CONSTRUCTION
AJAX ROAD

+62.9 BEGIN
PERMANENT CONSTRUCTION
RAILROAD STREET
MATCH AJAX ROAD



NOTES:
① SEE DETAIL SHEET.



EROSION CONTROL NOTES:

SILT FENCE AND INLET PROTECTIONS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

STONE TRACKING PADS SHALL BE INSTALLED PRIOR TO HAULING ANY MATERIALS OR EQUIPMENT TO AND FROM THE SITE. STONE TRACKING PADS SHALL BE INSTALLED PER WDNR TECHNICAL STANDARD 1057.

SEEDING AND MULCHING SHALL OCCUR WITHIN 7 DAYS OF FINAL GRADING ON ALL DISTURBED AREAS OR WHERE NO FURTHER GRADING WILL OCCUR FOR 21 DAYS. MULCH SHALL BE INSTALLED PER WDNR TECHNICAL STANDARD 1058.

DEWATERING SHALL BE DONE IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1061. SEE STORMWATER PERMIT FOR DETAILS FOR DEWATERING BASIN CONSTRUCTION.

ALL BMPS SHALL BE INSPECTED EVERY SEVEN DAYS OR WITHIN 24 HOURS OF A 0.5" RAINFALL. ALL REQUIRED REPAIRS/ MAINTENANCE SHALL BE COMPLETED WITHIN 24 HOURS OF DISCOVERY.

VEHICLE EXIT LOCATIONS AND STREET RIGHT OF WAYS SHALL BE INSPECTED AND CLEANED DAILY.

DUST CONTROL SHALL BE IMPLEMENTED IN ACCORDANCE WITH WDNR TECHNICAL STANDARD 1068.

INLET PROTECTION SHALL BE PROVIDED AT THE INTERSECTION OF WINTER STREET AND AJAX ROAD PRIOR TO HAULING ANY MATERIALS.

GENERAL NOTES:

THE EROSION AND SEDIMENT CONTROL AND STORM WATER POLLUTION MANAGEMENT PLAN IS COMPRISED OF THE SITE MAP, THE STANDARD DETAILS, ATTACHMENTS INCLUDED IN THE SPECIFICATIONS, PLUS THE PERMIT AND ALL SUBSEQUENT REPORT AND RELATED DOCUMENTS.

ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE EROSION AND SEDIMENT CONTROL AND STORM WATER MANAGEMENT PLAN AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.

THE CONTRACTOR IS RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL ON THIS PROJECT. HE/SHE SHALL PLACE OR OTHERWISE CONSTRUCT EROSION CONTROL AND SEDIMENT CONTAINMENT DEVICES TO PREVENT THE RUNOFF, TRACKING OR LOSS OF SEDIMENT FROM DISTURBED AREAS OF THE PROJECT SITE.

CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE EROSION CONTROL AND STORM WATER MANAGEMENT PLAN. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS CONDITIONS REQUIRE.

LEGEND

- RIPRAP
- TEMPORARY DITCH CHECKS
- SILT FENCE
- CULVERT PIPE DITCH CHECKS
- EROSION MAT CLASS I TYPE B
- SEED MIXTURE NO. 10 W/ FERTILIZER TYPE B
- FLOW ARROW
- ROCK CONSTRUCTION ENTRANCE

RECORD DRAWING 2013

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DESIGNER: MJB/JCK				
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1409 HAMMOND AVENUE
SUITE 315
SUPERIOR, WI 54880-1674

**WINTER STREET INDUSTRIAL PARK
SUPERIOR, WISCONSIN**

**DRAINAGE, EROSION CONTROL,
AND TURF ESTABLISHMENT PLAN**
STA 100+00 TO STA 108+00








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DATE 6/18/2013	64

6/18/2013

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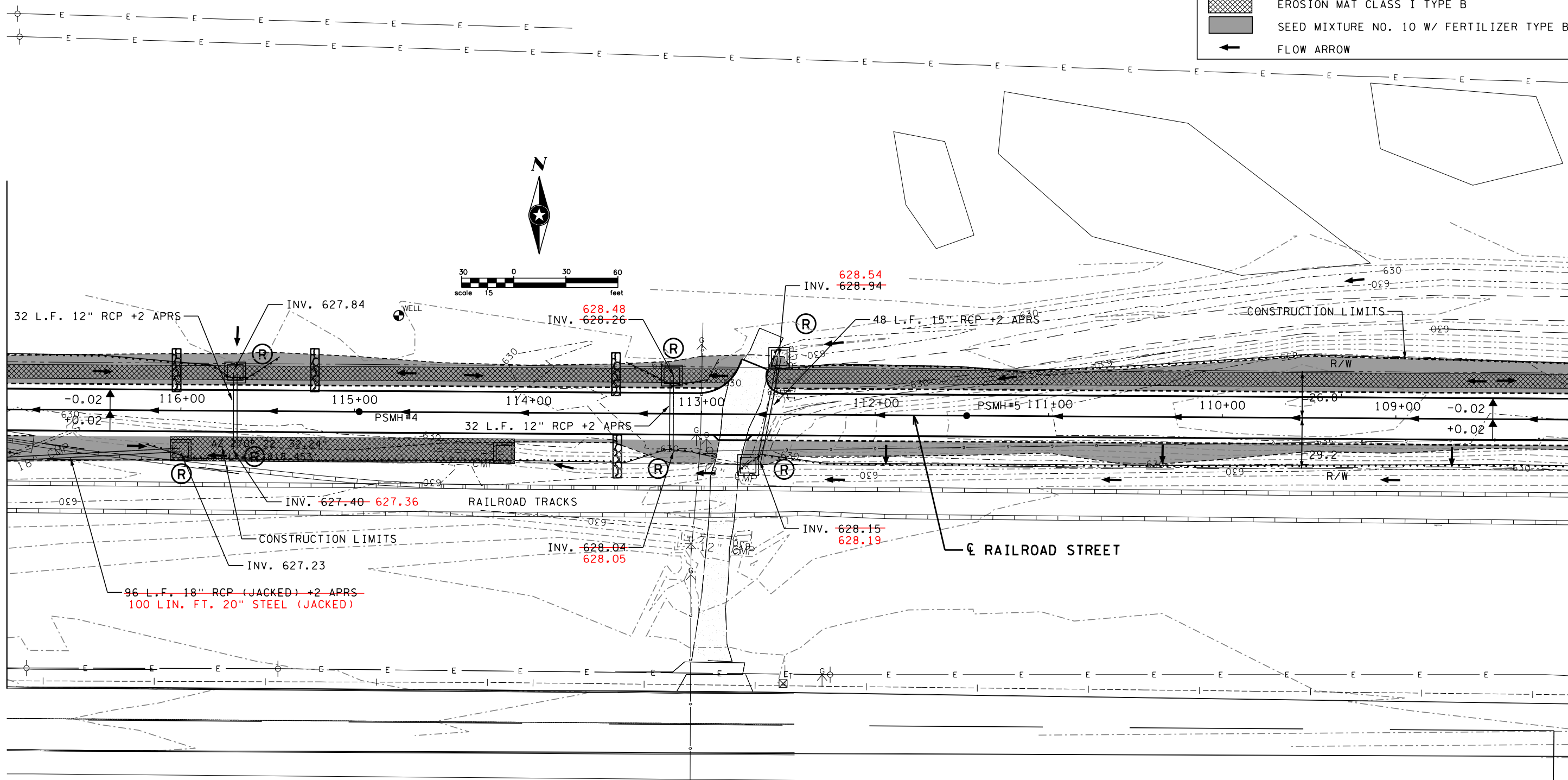
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LEGEND

-  RIPRAP
-  TEMPORARY DITCH CHECKS
-  SILT FENCE
-  CULVERT PIPE DITCH CHECKS
-  EROSION MAT CLASS I TYPE B
-  SEED MIXTURE NO. 10 W/ FERTILIZER TYPE B
-  FLOW ARROW

MATCHLINE - STA. 117+00
SEE SHEET NO. 24

MATCHLINE - STA. 108+00
SEE SHEET NO. 22



RECORD DRAWING 2013

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**WINTER STREET INDUSTRIAL PARK
 SUPERIOR, WISCONSIN**








**DRAINAGE, EROSION CONTROL,
 AND TURF ESTABLISHMENT PLAN**
 STA 108+00 TO STA 117+00



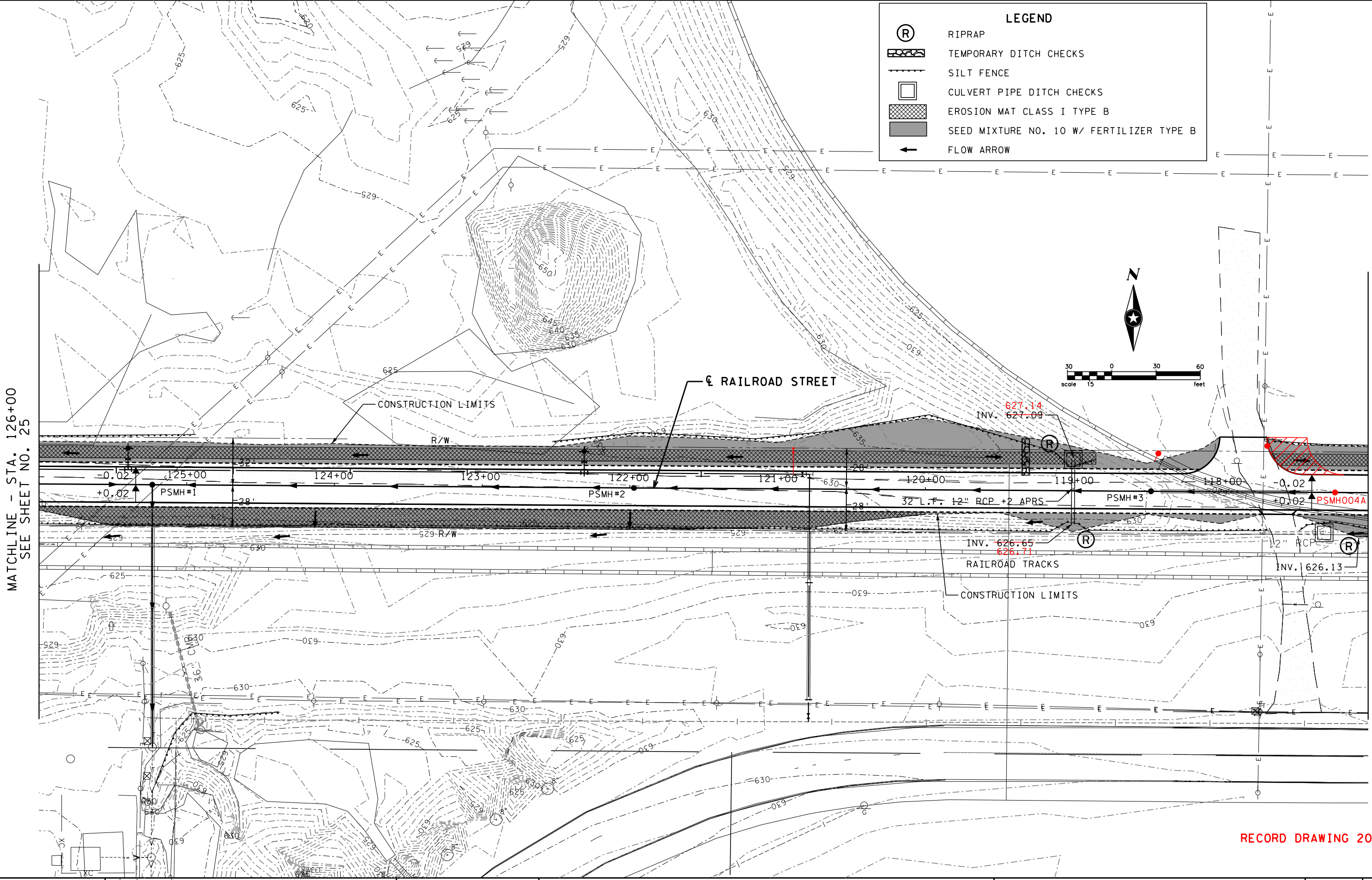
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DATE 6/18/2013	

MATCHLINE - STA. 126+00
SEE SHEET NO. 25

MATCHLINE - STA. 117+00
SEE SHEET NO. 23


LEGEND

-  RIPRAP
-  TEMPORARY DITCH CHECKS
-  SILT FENCE
-  CULVERT PIPE DITCH CHECKS
-  EROSION MAT CLASS I TYPE B
-  SEED MIXTURE NO. 10 W/ FERTILIZER TYPE B
-  FLOW ARROW

RECORD DRAWING 2013

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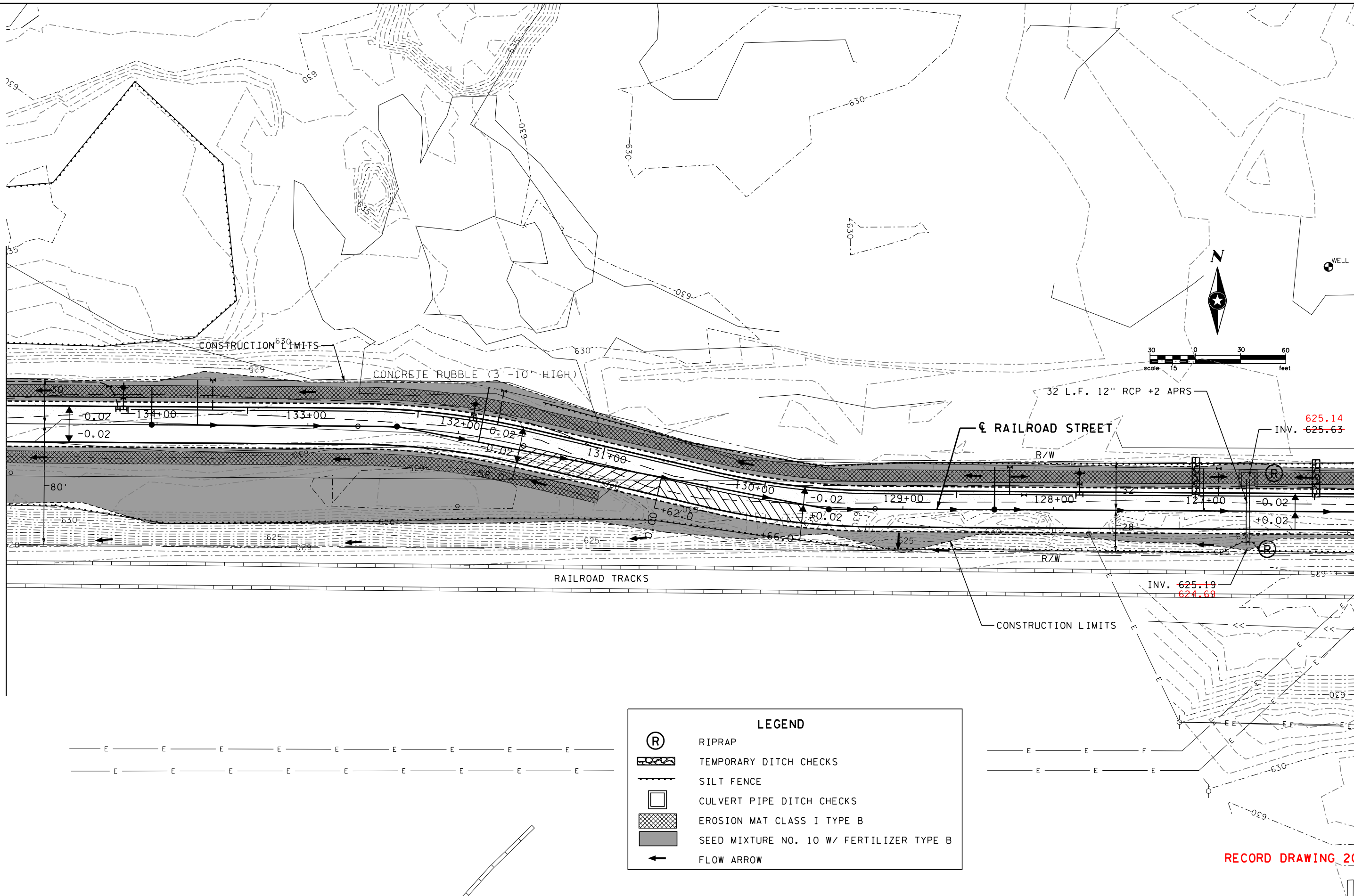
**WINTER STREET INDUSTRIAL PARK
SUPERIOR, WISCONSIN**

**DRAINAGE, EROSION CONTROL,
AND TURF ESTABLISHMENT PLAN**
STA 117+00 TO STA 126+00

FILE NO. SUPER0707	24
DATE 6/18/2013	64

MATCHLINE - STA. 135+00
SEE SHEET NO. 26

MATCHLINE - STA. 126+00
SEE SHEET NO. 24




LEGEND

	RIPRAP
	TEMPORARY DITCH CHECKS
	SILT FENCE
	CULVERT PIPE DITCH CHECKS
	EROSION MAT CLASS I TYPE B
	SEED MIXTURE NO. 10 W/ FERTILIZER TYPE B
	FLOW ARROW

RECORD DRAWING 2013

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**WINTER STREET INDUSTRIAL PARK
SUPERIOR, WISCONSIN**

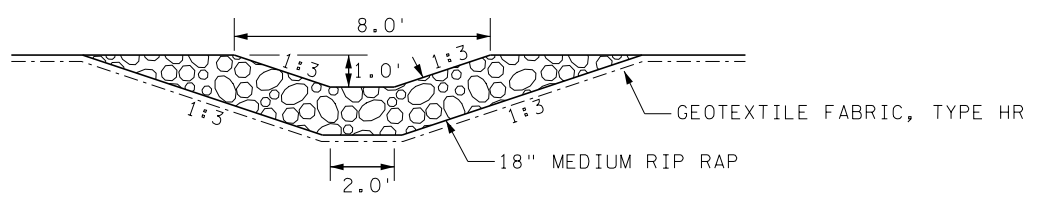
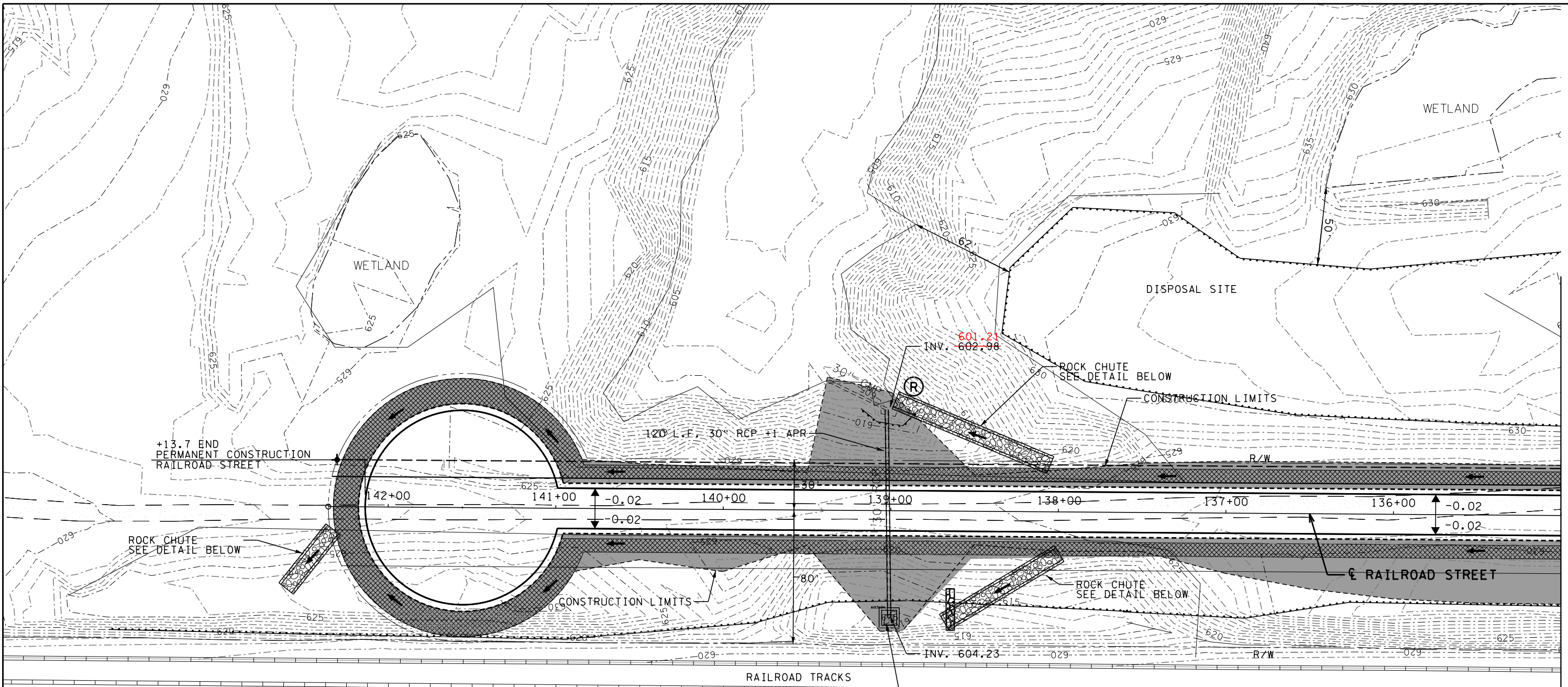
**DRAINAGE, EROSION CONTROL,
AND TURF ESTABLISHMENT PLAN**
STA 126+00 TO STA 135+00

FILE NO. SUPER0707	25
DATE 6/18/2013	64

6/18/2013

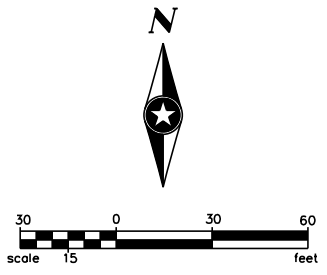
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ROCK CHUTE CROSS SECTION
NTS

LEGEND	
	RIPRAP
	TEMPORARY DITCH CHECKS
	SILT FENCE
	CULVERT PIPE DITCH CHECKS
	EROSION MAT CLASS I TYPE B
	SEED MIXTURE NO. 10 W/ FERTILIZER TYPE B
	FLOW ARROW



RECORD DRAWING 2013

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**WINTER STREET INDUSTRIAL PARK
SUPERIOR, WISCONSIN**

**DRAINAGE, EROSION CONTROL,
AND TURF ESTABLISHMENT PLAN**
STA 135+00 TO PROJECT END

FILE NO. SUPER0707	26
DATE 6/18/2013	64

MATCHLINE - STA. 135+00
SEE SHEET NO. 25

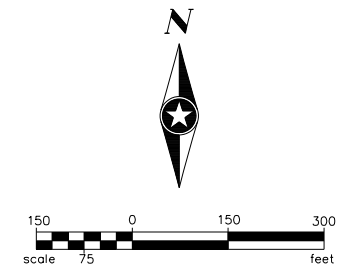
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NOTES:

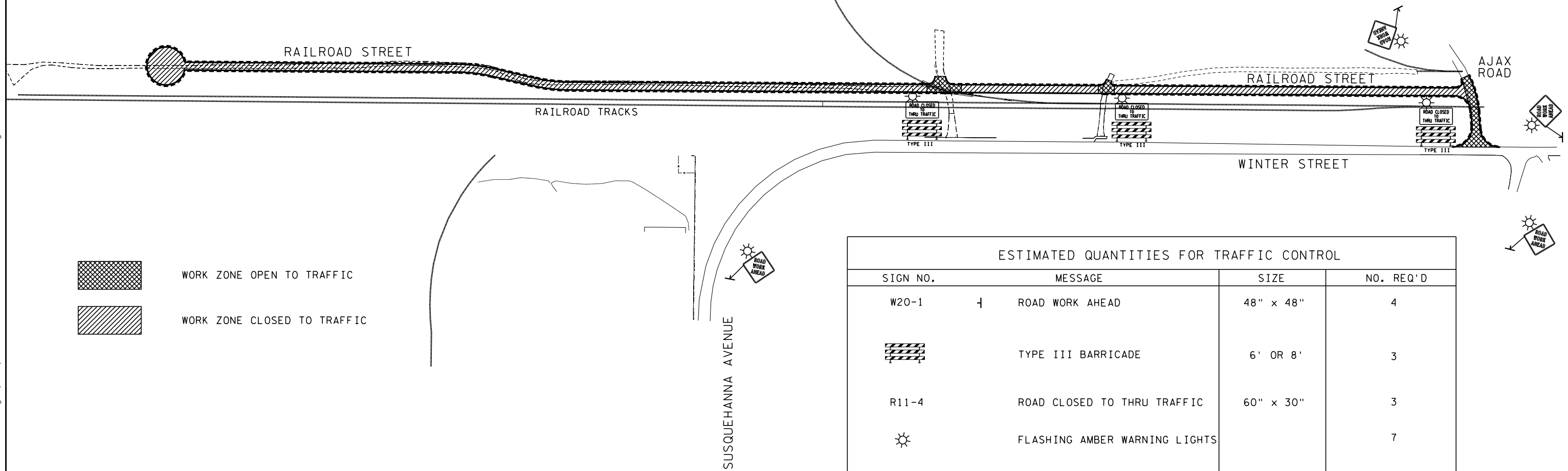
1. THE NUMBER AND PLACEMENT OF SIGNS AND DEVICES WILL DEPEND UPON THE SEQUENCE OF THE CONTRACTOR'S OPERATION.
2. "ROAD WORK AHEAD" SIGNS SHALL BE MOUNTED 200 FEET (1 BLOCK) IN ADVANCE OF CONSTRUCTION AND SHALL HAVE A TYPE "A" LOW INTENSITY FLASHING AMBER WARNING LIGHT MOUNTED ON THEM.
3. "ROAD CLOSED AHEAD" SIGNS SHALL BE ERECTED 200 FEET IN ADVANCE OF THE ACTUAL CLOSURE, OR AT THE INTERSECTION IN ADVANCE OF THE CLOSURE AND SHALL HAVE A TYPE "A" LOW INTENSITY FLASHING AMBER WARNING LIGHT MOUNTED ON THEM.
4. "ROAD CLOSED TO THRU TRAFFIC" SHALL BE INSTALLED ON TYPE III BARRICADES AND SHALL BE LOCATED AT THE POINT OF CLOSURE.
5. TYPE "A" LOW INTENSITY AMBER FLASHING WARNING LIGHTS SHALL BE MOUNTED ON ALL ADVANCE WARNING SIGNS AND ON ALL TYPE III BARRICADES WHEN USED AT NIGHT OR TO IDENTIFY HAZARDS.
6. ADDITIONAL SIGNING MAY BE REQUIRED FOR SEPARATE LANE CLOSURES. THIS SIGNING SHALL BE IN CONFORMANCE WITH ALL WISDOT STANDARDS AND THE CURRENT ADDITIONS OF THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AND SHALL BE CONSIDERED INCIDENTAL.
7. RETROREFLECTIVE DRUMS SHALL BE USED ON CHANNELIZATION DEVICES TO DELINEATE THE EDGE OF THE TRAVELED WAY NEXT TO WORK ZONES OR HAZARDOUS AREAS AT NIGHT.
8. CONTRACTOR RESPONSIBLE FOR ALL TRAFFIC STRIPING FOR TRAFFIC CONTROL DURING CONSTRUCTION.
9. CONTRACTOR RESPONSIBLE FOR PLACEMENT OF CHANNELIZATION DEVICES TO CONTROL TRAFFIC THROUGH CONSTRUCTION AREAS. USE 30 FEET SPACING FOR TUBES AND DRUMS WHEN USED FOR CHANNELIZATION.
10. CONTRACTOR REQUIRED TO SUBMIT TRAFFIC CONTROL PLAN TO ENGINEER FOR APPROVAL PRIOR TO STARTING ANY WORK ON THE PROJECT. CONTRACTOR ALSO REQUIRED TO SUBMIT TRAFFIC CONTROL PLAN CHANGES FOR APPROVAL PRIOR TO CHANGING THEIR SEQUENCE OF CONSTRUCTION OPERATIONS.
11. TRAFFIC ON ALL STREETS MUST REMAIN OPEN IN BOTH DIRECTIONS THROUGHOUT THE COURSE OF THIS PROJECT.



GENERAL NOTES:

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

ALL SIGNS OR PAVEMENT MARKING, TEMPORARY OR EXISTING, WHICH MAY CONFLICT WITH THE CONSTRUCTION TRAFFIC PATTERN SHALL BE REMOVED OR COVERED.



ESTIMATED QUANTITIES FOR TRAFFIC CONTROL				
SIGN NO.	MESSAGE	SIZE	NO. REQ'D	
W20-1	ROAD WORK AHEAD	48" x 48"	4	
	TYPE III BARRICADE	6' OR 8'	3	
R11-4	ROAD CLOSED TO THRU TRAFFIC	60" x 30"	3	
	FLASHING AMBER WARNING LIGHTS		7	

RECORD DRAWING 2013 NOT UPDATED

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WINTER STREET INDUSTRIAL PARK
SUPERIOR, WISCONSIN

TRAFFIC CONTROL PLAN

FILE NO. SUPER0707	27
DATE 6/18/2013	64