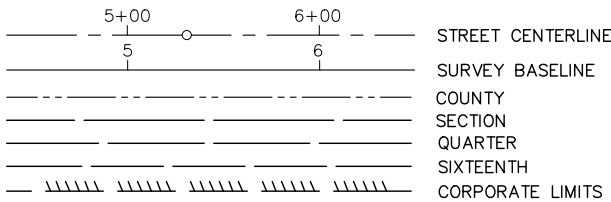
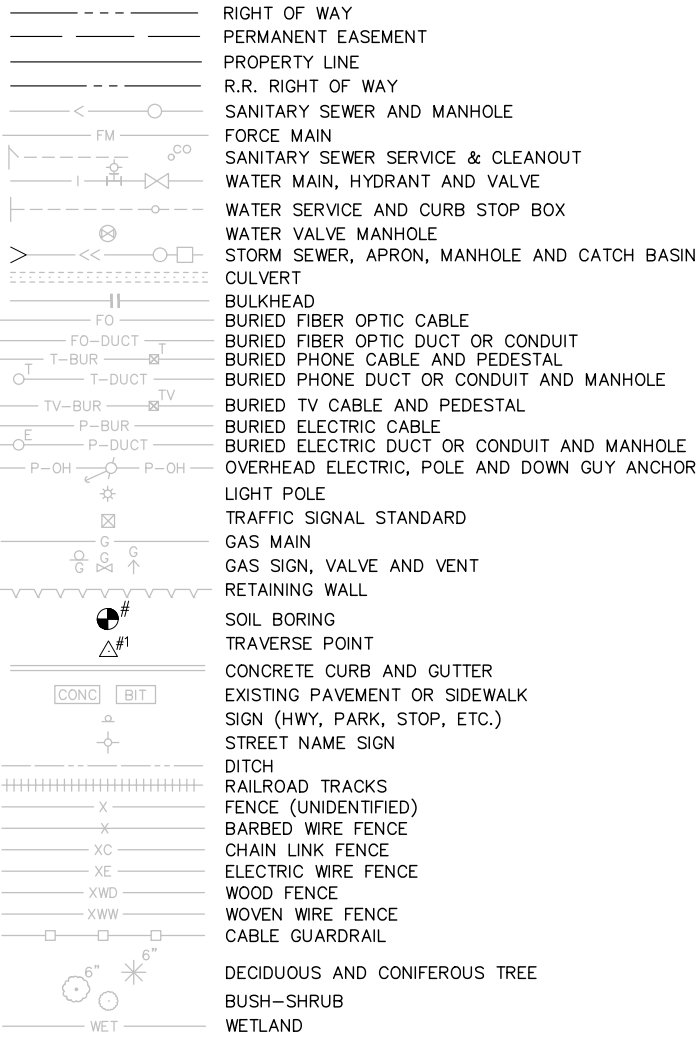


P:\K\O\N\Nfrel\140077\5-final-dsgn\10-civil-drawings\10-civil\cod\dwg\pnshts\NF140077TL.dwg 6/29/2017 1:37 PM abreland

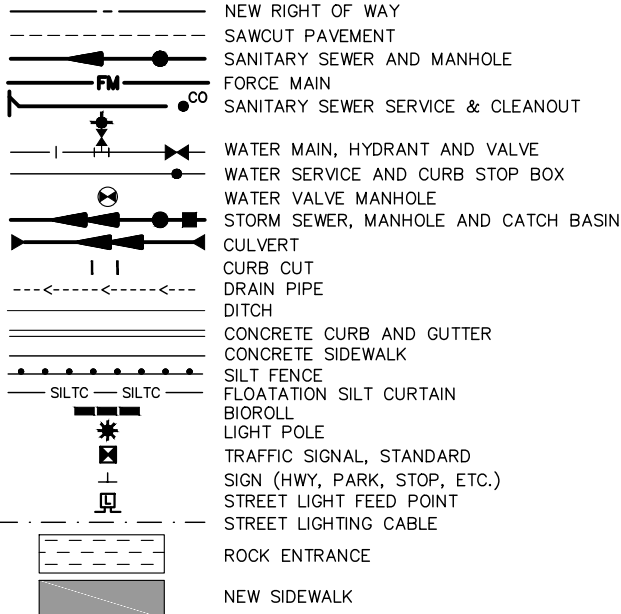
LEGEND



EXISTING

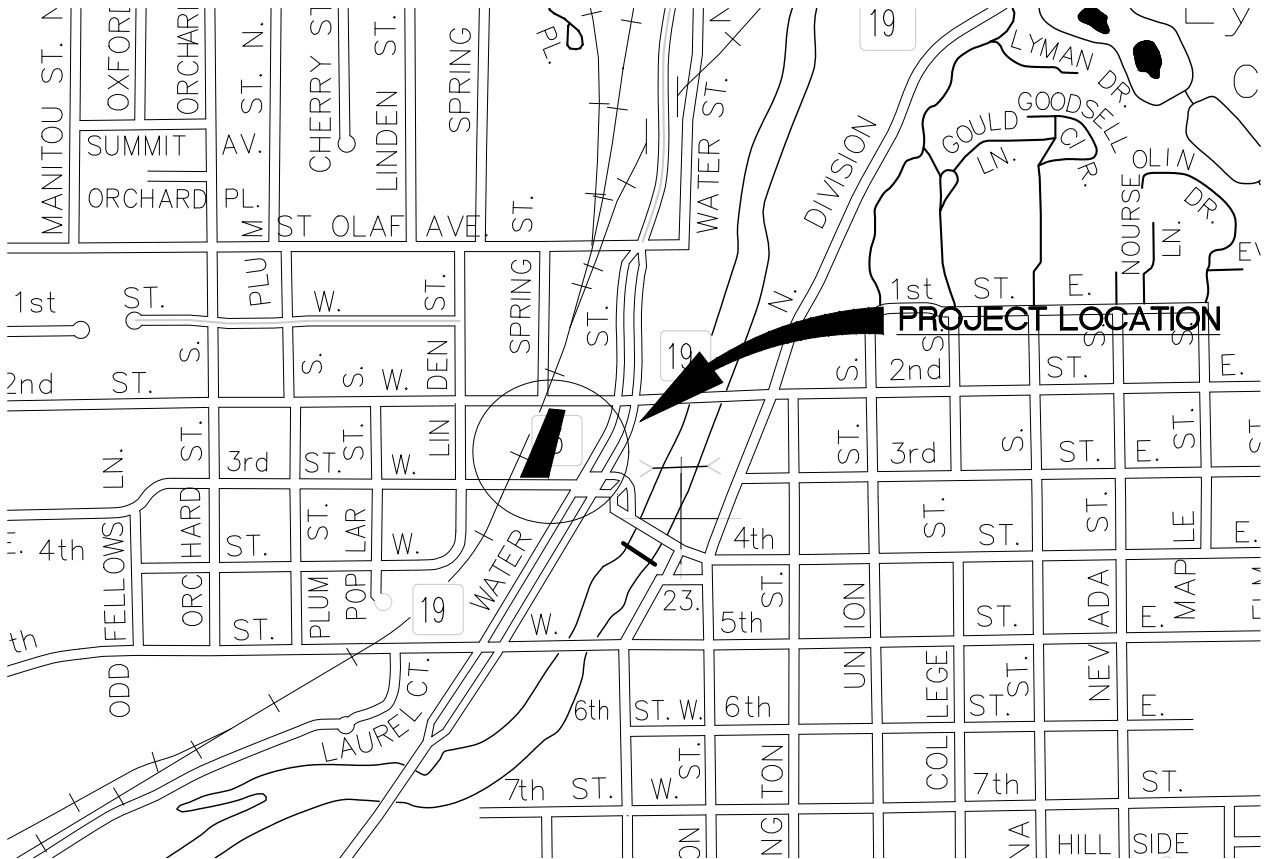


PROPOSED



CITY OF
NORTHFIELD, MINNESOTA
CONSTRUCTION PLANS
FOR
SIDEWALK, PARKING LOT AND STALLS, AND CONCRETE
CURB AND GUTTER
HISTORIC DEPOT AND TRANSIT HUB
IMPROVEMENTS

CITY PROJECT NO.XXXX



NOTE:
THE SUBSURFACE UTILITY QUALITY INFORMATION IN THIS PLAN IS 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."

THE CONTRACTOR SHALL CALL THE GOPHER STATE ONE CALL SYSTEM AT
811 BEFORE COMMENCING EXCAVATION.



GOVERNING SPECIFICATIONS

THE 2016 EDITION OF THE MINNESOTA DEPARTMENT OF
TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION"
SHALL GOVERN EXCEPT AS MODIFIED BY THE SPECIFICATIONS FOR
THIS PROJECT.

THE 2016 EDITION OF "STANDARD CONTRACT DOCUMENTS AND
TECHNICAL SPECIFICATIONS FOR UTILITY AND STREET
CONSTRUCTION FOR CITY OF NORTHFIELD, MINNESOTA"

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM
TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY
TRAFFIC CONTROL ZONE LAYOUTS", - CURRENT EDITION.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	EXISTING CONDITIONS, REMOVALS, AND ESTIMATED QUANTITIES
3	TYPICAL SECTIONS
4	DETAILS
5	SITE, SIGNING AND STRIPING, AND LIGHTING PLAN
6	SITE PLAN- SPOT ELEVATIONS
7	PROPOSED UTILITIES
8	PLAN AND PROFILE
9-10	CROSS SECTIONS

THIS PLAN CONTAINS 10 SHEETS.

PROJECT LOCATION



RECOMMENDED FOR APPROVAL:

CITY OF NORTHFIELD ENGINEER

DATE



PHONE: 952.912.2600
10901 RED CIRCLE DRIVE #300
MINNETONKA, MN 55343-9302
www.sehinc.com

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.

WAYNE HOULE, PE

Date: XX/XX/XXXX

Lic. No. 25057

FILE NO.

NF140077

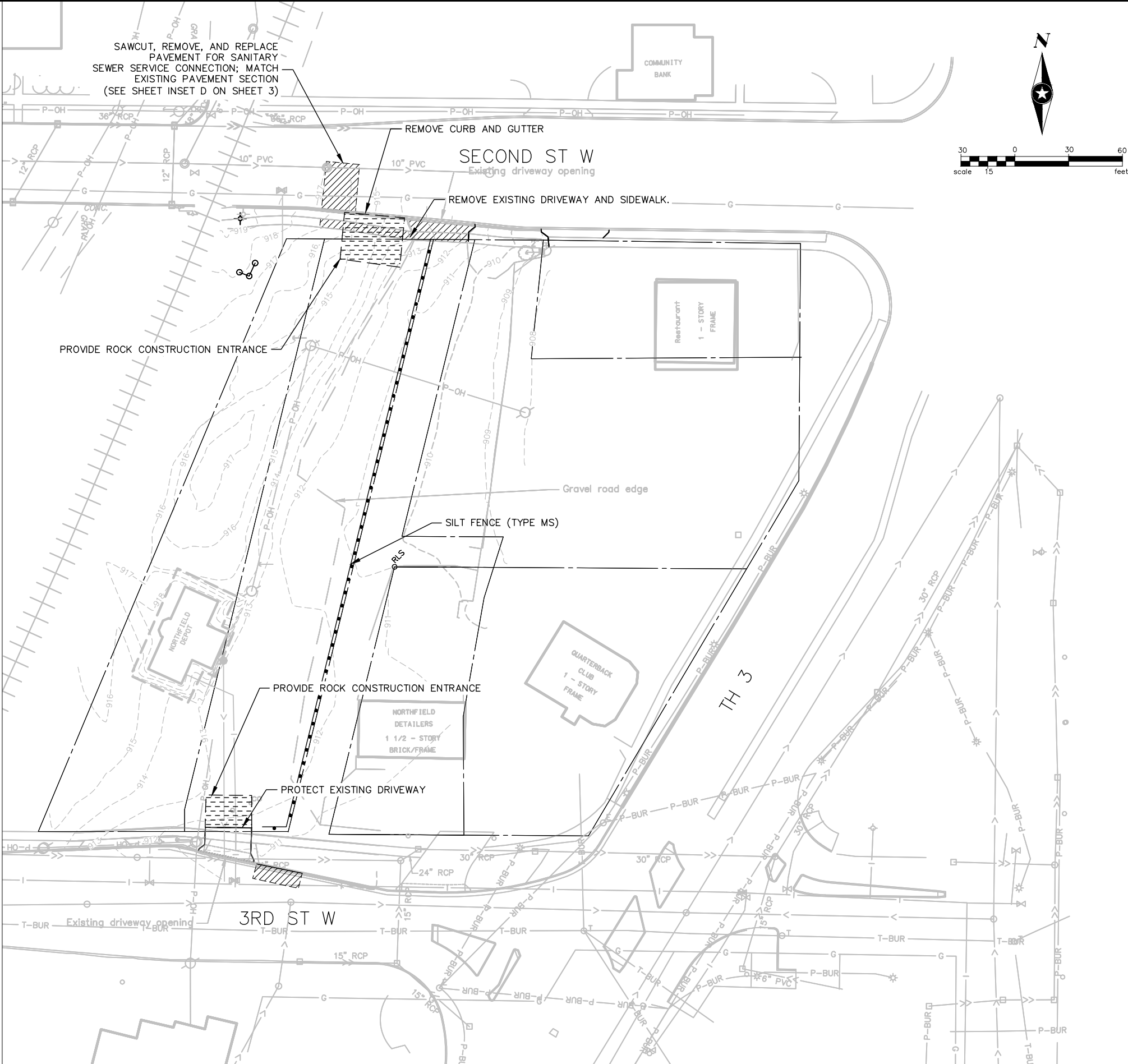
1
10

P:\KON\Nfield\140077\5-final-dsgn\51-drawings\10-Civil\cad\dwg\pinshits\NF140077EXISTING.dwg 6/29/2017 3:18 PM abreland

LINE NO.	Item	Item Description	Unit	QUANTITIES
1	2021.501	Mobilization	LS	1
2	2104.501	Remove Concrete Curb and Gutter	LF	114
3	2104.503	Remove Concrete Walk/ Driveway Apron	SF	597
4	2104.505	Remove and Replace Bituminous Pavement	SY	80
5	2105.501	Common Excavation	CY	750
6	2105.601	Rain Garden/Drainage Swale	LS	1
7	2211.501	Aggregate Base, Class 5	TON	764
8	2357.502	Bituminous Material For Tack Coat	GALS	255
9	2360.501	Type Sp 9.5 Wearing Course Mix (2,C)	TON	181
10	2360.502	Type SP 12.5 Non Wear Course Mix (2,B)	TON	163
11	2411.618	Retaining Wall	SF	240
12	2503.601	Utility Services - Sanitary Sewer	LS	1
13	2503.601	Utility Services- Storm Sewer for Parking Lot, Rain Garden/Drainage Swale, and Depot	LS	1
14	2504.601	Utility Services- Water Service	LS	1
15	2521.501	6" Concrete Walk	SF	233
16	2521.501	4" Concrete Walk	SF	1,032
17	2531.501	Concrete Curb And Gutter Design B612	LF	362
18	2531.501	Concrete Curb And Gutter Design B618	LF	114
19	2531.501	Concrete Curb And Gutter Design B612- Modified	LF	377
20	2531.507	8" Concrete Driveway Pavement	SY	49
21	2545.511	Pedestrian Light	EA	8
22	2545.511	Parking Lot Light	EA	3
23	2545.523	2" PVC Conduit	LF	499
24	2575.505	Sodding, Type Lawn	SY	560
25	2575.601	Erosion Control	LS	1
26	2582.601	Pavement Markings & Signage	LS	1

GENERAL NOTES

- ALL EXISTING DRIVEWAYS, STREET SURFACING, SIDEWALKS, AND CURB AND GUTTER SHALL BE REMOVED TO THE REMOVAL LIMITS MARKED IN THE FIELD BY THE ENGINEER UNLESS OTHERWISE NOTED ON THE PLANS. ALL CONCRETE AND BITUMINOUS SHALL BE SAW CUT PRIOR TO REMOVING. ALL CONCRETE TO BE SAW CUT TO THE NEAREST JOINT. ALL SAW CUTS SHALL BE INCIDENTAL TO REMOVAL ITEMS.
- THE CONTRACTOR SHALL PROVIDE AND PLACE TRAFFIC CONTROL SIGNAGE FOR WORK WITHIN 2ND STREET AND 3RD STREET AND ALSO FOR ANY SIDEWALK CLOSURES.
- THE CONTRACTOR SHALL PROTECT THE EXISTING SANITARY SEWER AND WATER SERVICES TO THE HISTORIC NORTHFIELD DEPOT.
- THE CONTRACTOR SHALL STRICTLY CONFINE ALL CONSTRUCTION ACTIVITIES TO THE CONSTRUCTION LIMITS.
- ALL KNOWN UTILITIES ARE SHOWN ON THE PLAN, ADDITIONAL UTILITIES MAY BE PRESENT WITHIN THE CONSTRUCTION LIMITS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT EXISTING UTILITIES.
- RETAINING WALL LOCATION AND HEIGHT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. SEE CROSS SECTIONS FOR APPROXIMATE WALL HEIGHT.
- THE CONTRACTOR SHALL VERIFY ALL WATER MAIN, STORM, AND SANITARY THAT CONNECT TO EXISTING LOCATIONS AND ELEVATIONS PRIOR TO CONNECTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DEVIATIONS FROM PLAN. NO ADDITIONAL COMPENSATION SHALL BE GIVEN FOR ELEVATION AND/OR LOCATION CHANGES, EXCEPT THAT ADDITIONAL LENGTHS SHALL BE PAID AT UNIT BID PRICES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) ON THE SITE; THIS INCLUDES, BUT IS NOT LIMITED TO, ALL SILT FENCE, INLET PROTECTION, ROCK CONSTRUCTION ENTRANCES, STREET SWEEPING, ETC. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR INSPECTING AND CLEANING ANY DEVICE RELATED TO THE SWPPP.



DRAWN BY: AH
DESIGNER:
CHECKED BY:
DESIGN TEAM

NO.	BY	DATE	REVISIONS

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.
SIGNATURE: WAYNE HOLE
PRINTED NAME: WAYNE HOLE
Date: 6/29/2017
Lic. No. 25057

SEH
PHONE: 952.912.2600
10901 RED CIRCLE DRIVE #300
MINNETONKA, MN 55343-9302
www.sehinc.com

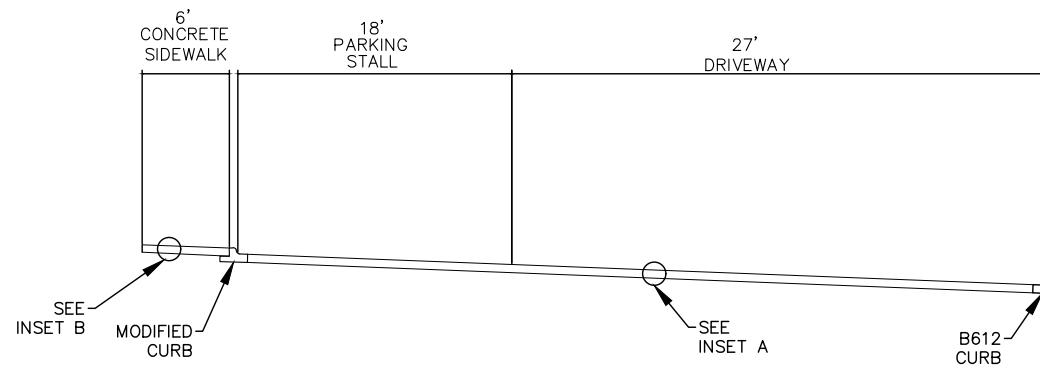
City Of
Northfield
Minnesota

**HISTORIC DEPOT
AND TRANSIT HUB
NORTHFIELD, MN**

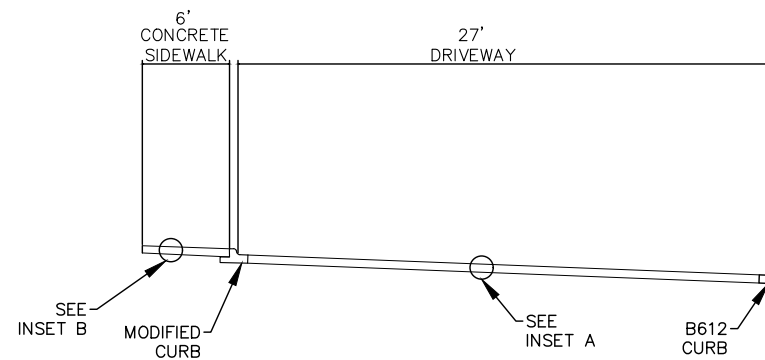
**EXISTING CONDITIONS,
REMOVALS, AND ESTIMATED
QUANTITIES**

FILE NO.
NF140077
DATE:
X/XX/XX

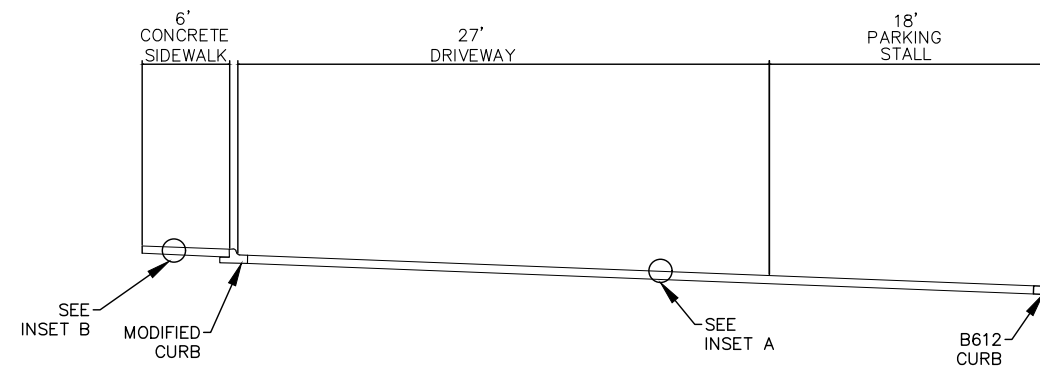
2
10



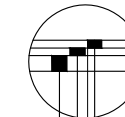
SECTION A
STA. 100+31 TO 101+19



SECTION B
STA. 101+19 TO 102+78

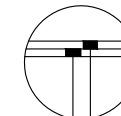


SECTION C
STA. 102+78 TO 103+43



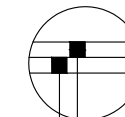
- 2" TYPE SP 9.5 WEARING COURSE (SPWEA240C)
- 2" TYPE SP 12.5 NON-WEARING COURSE (SPNWB230B)
- 9" AGGREGATE BASE CLASS 5

INSET A- BITUMINOUS DRIVEWAY



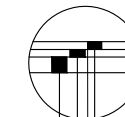
- 4" CONCRETE WALK
- 4" AGGREGATE BASE CLASS 5

INSET B- CONCRETE SIDEWALK



- 3" TYPE SP 9.5 WEARING COURSE (SPWEA230B)
- 6" AGGREGATE BASE CLASS 5

INSET C- BITUMINOUS SHARED USED PATH



- 2" TYPE SP 9.5 WEARING COURSE (SPWEA240C)
- BITUMINOUS TACK COAT APPLIED AT 0.10 GALLONS/SQ YD
- 2" TYPE SP 12.5 NON-WEARING COURSE (SPNWB230B)
- 9" EXISTING AGGREGATE BASE CLASS 5

INSET D- BITUMINOUS ROAD PATCH

APPROX. 6' W x 15' L

BS LB

WT HY

BFI

HY WT

LB BS

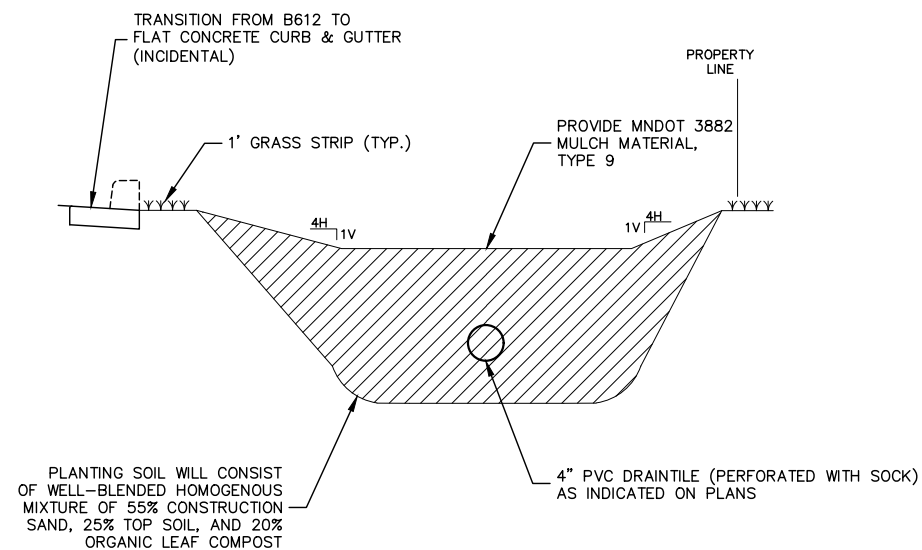
Full Sun						
	Indiv Qty per					
Code	Type	Common Name	Botanical Name	Size	Root	Spacing
HY	15	Hello Yellow Butterfly Weed	Asclepias Tuberosa	#1	Cont.	1.5' O.C.
BFI	21	Blueflag Iris	Iris Versicolor	#1	Cont.	1.5' O.C.
WT	24	White Turtlehead	Chelone Glabra	#1	Cont.	1.5' O.C.
BS	12	Brown Eyed Susan	Rudbeckia Triloba	#1	Cont.	1.5' O.C.
LB	12	Little Bluestem	Schizachrium Scoparium	#1	Cont.	1.5' O.C.

GENERAL NOTES:

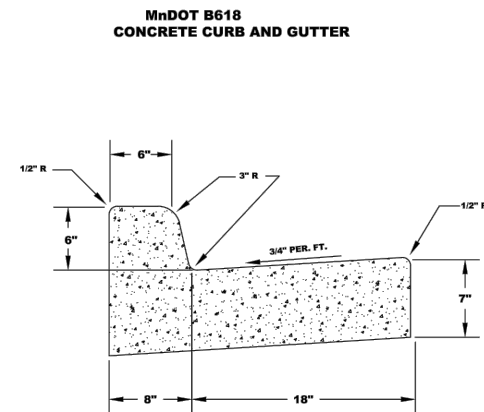
1. NO PLANT SUBSTITUTIONS WILL BE ACCEPTED UNLESS PRIOR APPROVAL IS REQUESTED OF THE ENGINEER BY THE CONTRACTOR PRIOR TO THE SUBMISSION OF BID.
2. PERENNIAL AND SHRUB RAIN GARDEN SHALL BE PLANTED BY THE CONTRACTOR IN 2017/2018.

PLANTING NOTES:

1. ALL PERENNIALS SHALL HAVE TRIANGULAR SPACING.
2. CONTAINER GROWN PLANTS SHALL HAVE ROOTS LOOSENEED AND PULLED OUT TO PREVENT PLANT FROM BECOMING ROOT BOUND.



RAIN GARDEN / DRAINAGE SWALE



DRAWN BY: S.M.S.

NOT TO SCALE

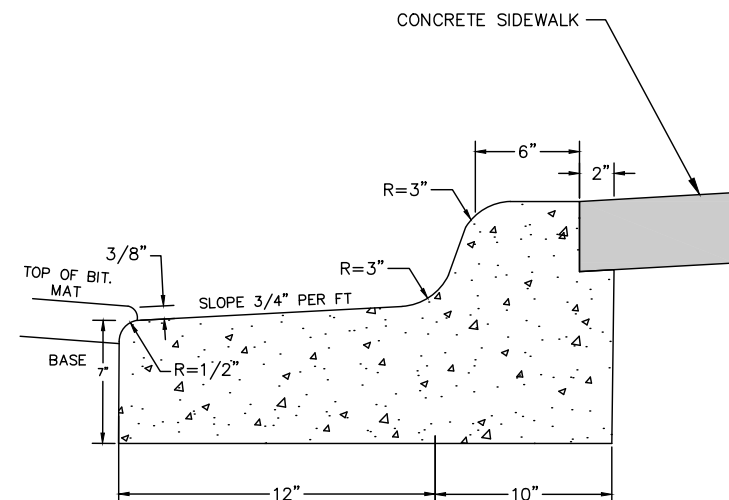
UPDATED: 2011



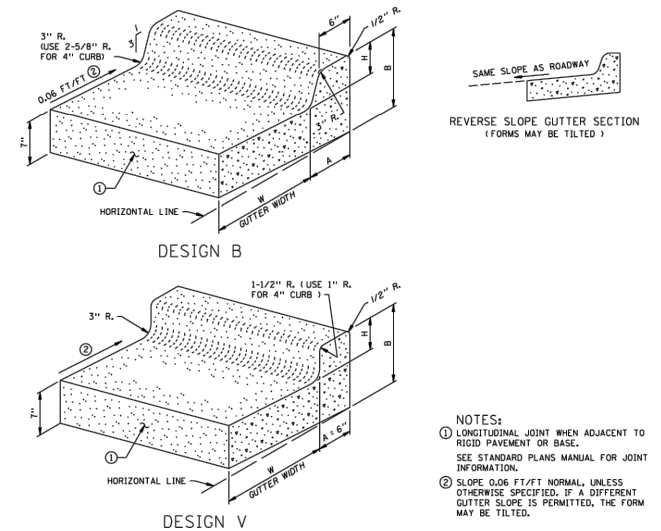
ENGINEERING DIVISION

PLATE NO: 8

*B618 CURB
SECTION*



MODIFIED CURB
(TIPOUT)



DESIGN B		W = 12"				W = 18"				W = 24"				W = 30"				W = 36"			
		CONCRETE		CONCRETE		CONCRETE		CONCRETE		CONCRETE		CONCRETE		CONCRETE		CONCRETE					
		DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.	DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.	DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.	DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.	DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.	DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.	DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.	DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.				
DIMENSIONS																					
H	A	B																			
4	7'-3"	11'-1/2"	B412	0.0421	23.8	B418	0.0529	28.9	B424	0.0637	35.7	B430	0.0745	43.4	B436	0.0853	51.7				
6	8"	13'-1/2"	B612	0.0474	21.1	B618	0.0582	27.2	B624	0.0690	34.5	B630	0.0798	42.5	B636	0.0906	51.0	10.4			
8	9'-5"	15'-1/2"	B812	0.0527	19.8	B818	0.0635	25.7	B824	0.0743	33.0	B830	0.0851	41.7	B836	0.0959	50.4	10.4			
10	9'-5"	15'-7/8"	B1012	0.0559	19.9	B1018	0.0667	26.0	B1024	0.0775	32.9	B1030	0.0883	41.3	B1036	0.0991	50.1				
10	9'-3/8"	17'-5/8"	B1012	0.0589	17.0	B1018	0.0697	24.4	B1024	0.0805	32.4	B1030	0.0913	41.0	B1036	0.1021	49.8				

DESIGN V		W = 12"				W = 18"				W = 24"				W = 30"				W = 36"			
		CONCRETE		CONCRETE		CONCRETE		CONCRETE		CONCRETE		CONCRETE		CONCRETE		CONCRETE					
		DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.	DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.	DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.	DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.	DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.	DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.	DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.	DESIGN NO.	CU. YDS. LN. FT. LN. FT. LN. FT.				
DIMENSIONS																					
H	A	B																			
4	6"	11'-3/8"	V412	0.0396	25.3	V418	0.0504	39.4	V424	0.0612	54.4	V430	0.0720	73.9	V436	0.0828	121				
6	6"	13'-3/8"	V612	0.0426	23.5	V618	0.0534	38.7	V624	0.0642	56.6	V630	0.0750	76.4	V636	0.0858	113.7				
8	6"	15'-3/8"	V812	0.0457	21.9	V818	0.0565	37.7	V824	0.0673	56.0	V830	0.0781	72.8	V836	0.0889	113				
10	6"	16'-3/8"	V1012	0.0472	21.2	V1018	0.0580	37.2	V1024	0.0688	54.5	V1030	0.0796	72.6	V1036	0.0904	114.2				
10	6"	17'-3/8"	V1012	0.0487	19.5	V1018	0.0595	34.8	V1024	0.0703	42.2	V1030	0.0811	50.6	V1036	0.0919	59.9				

APPROVED MARCH 11, 1994
R.H. Carapide
 ACTING STATE DESIGN ENGINEER

STATE OF MINNESOTA
DEPARTMENT OF TRANSPORTATION
CONCRETE CURB AND GUTTER
DESIGN B AND DESIGN V

SPECIFICATION REFERENCE 2531	STANDARD PLATE NO.
REVISION DATE	7100H

DRAWN BY: AH
DESIGNER: _____
CHECKED BY: _____
DESIGN TEAM

NO.	BY	DATE

REVISIONS

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 MISSISSIPPI.

SIGNATURE: Wayne Houle Date: 11/1/2011

WAYNE HOULE Lic. No. 25057

WAYNE HOULE



PHONE: 952.912.2600
10901 RED CIRCLE DRIVE #300
MINNETONKA, MN 55343-9302
www.sehinc.com



HISTORIC DEPOT AND TRANSIT HUB NORTHFIELD, MN

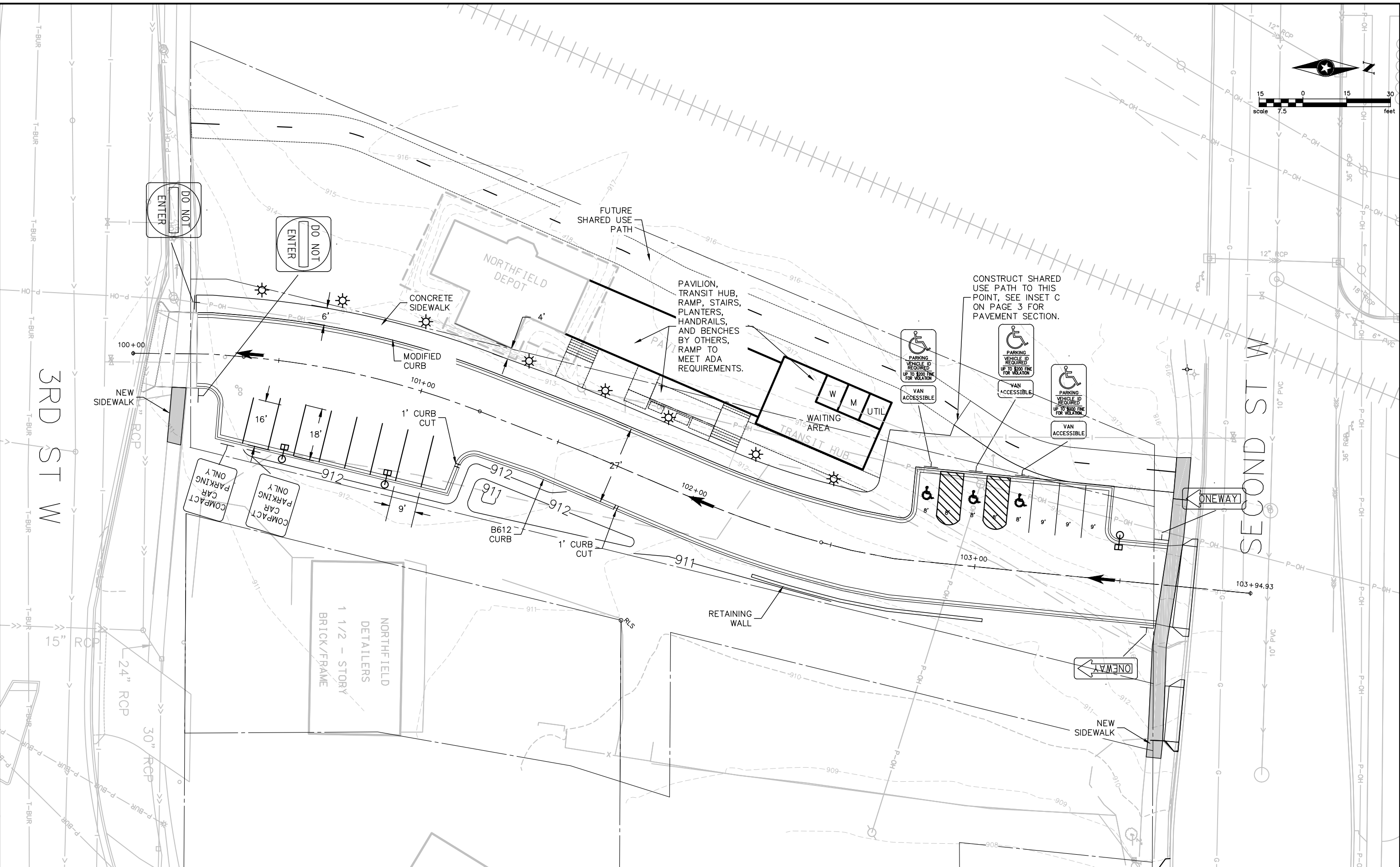
DETAILS

FILE NO.
NF140077

DATE:
X/XX/XX

10

P:\KON\Nfield\140077\5-final-dsm\10-Civil\cad\dwg\pinshits\NF140077PL.dwg 6/29/2017 3:07 PM abreland



DRAWN BY: AH
DESIGNER:
CHECKED BY:
DESIGN TEAM

NO.	BY	DATE	REVISIONS

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.
SIGNATURE: WAYNE HOLE
PRINTED NAME: WAYNE HOLE
Lic. No. 25057

SEH
PHONE: 952.912.2600
10901 RED CIRCLE DRIVE #300
MINNETONKA, MN 55343-9302
www.sehinc.com

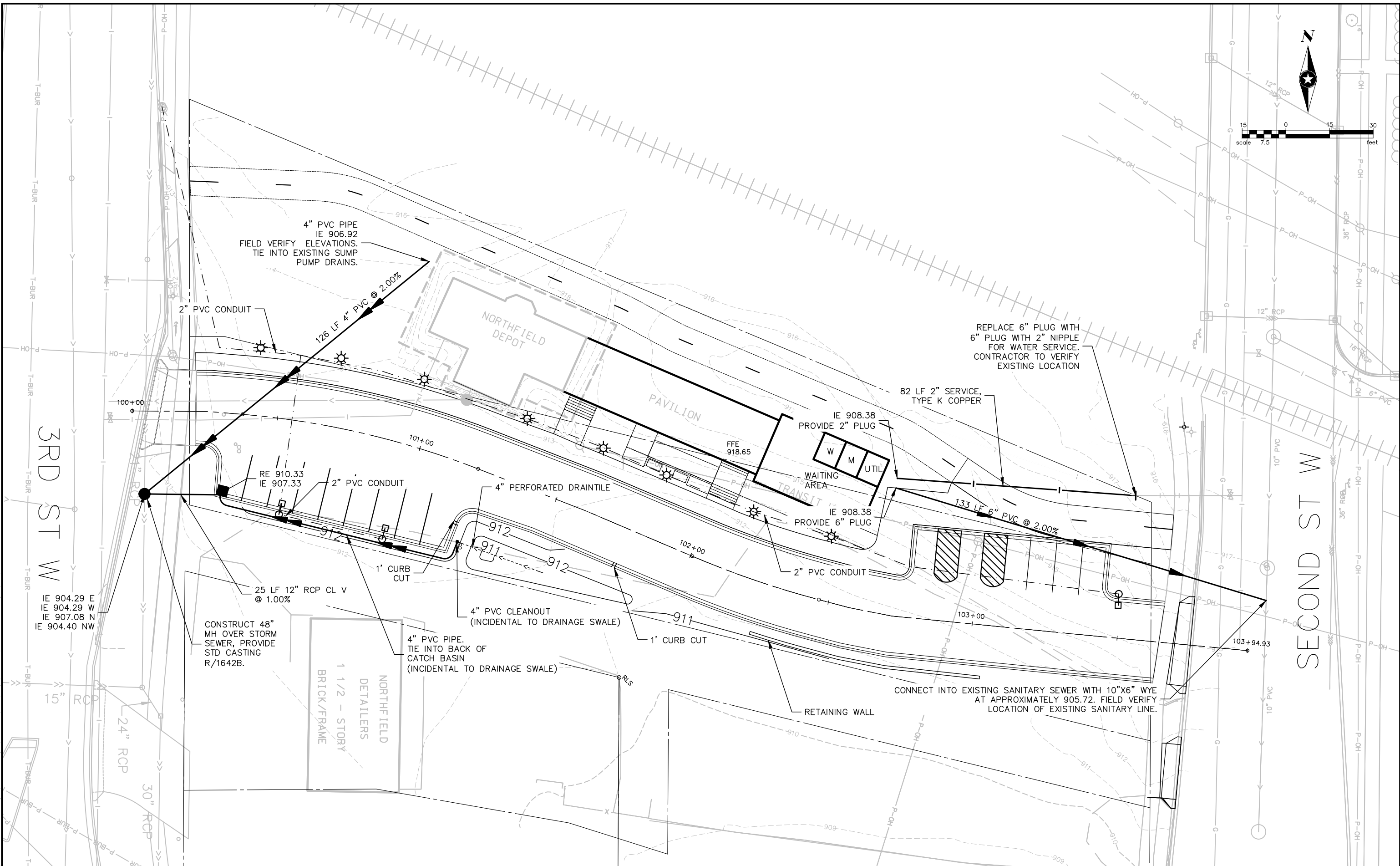


HISTORIC DEPOT
AND TRANSIT HUB
NORTHFIELD, MN

SITE, SIGNING AND STRIPING,
AND LIGHTING PLAN

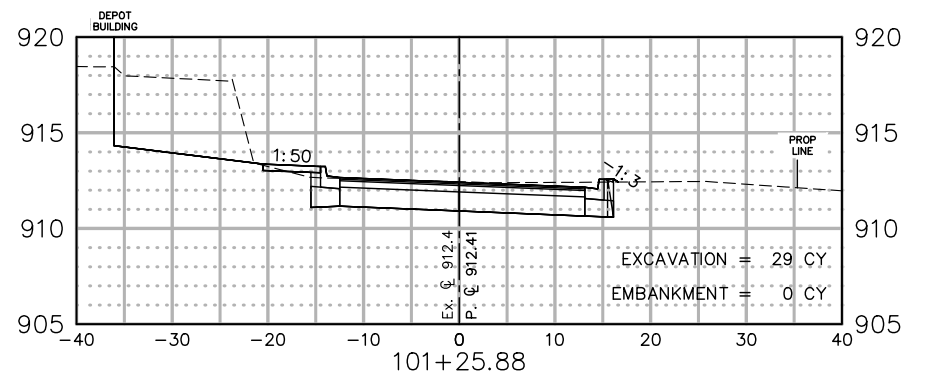
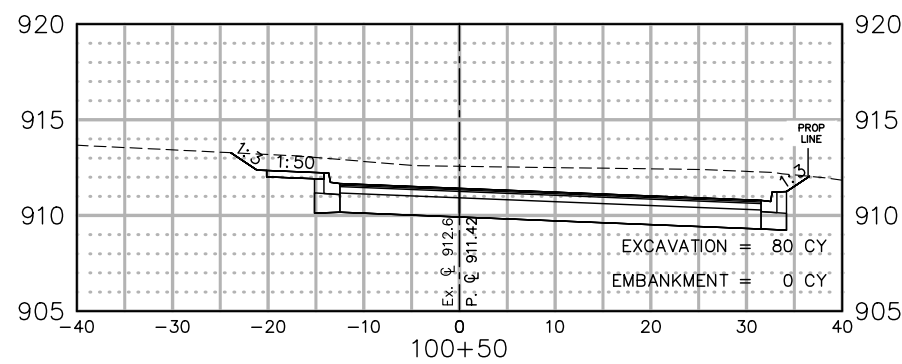
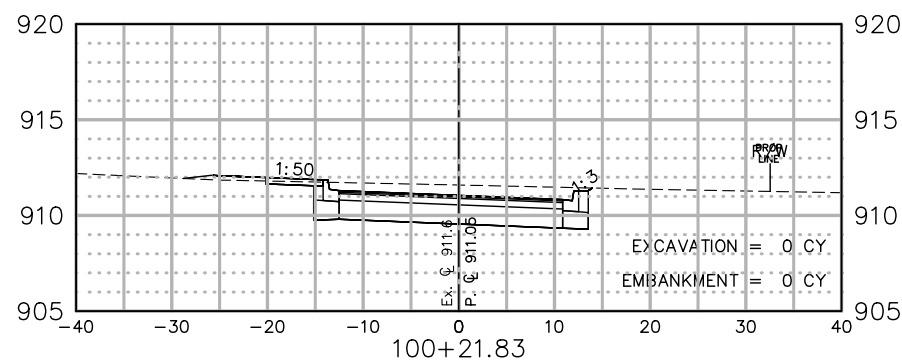
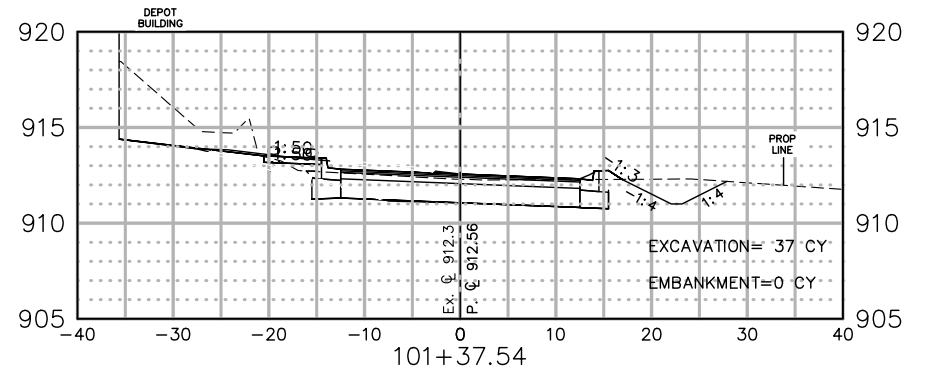
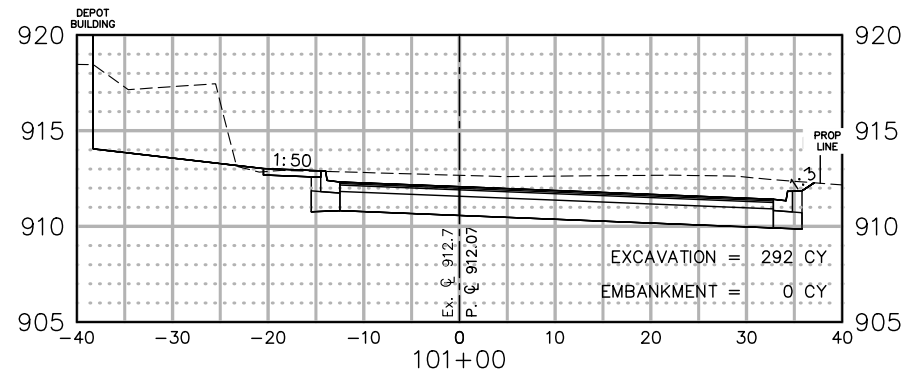
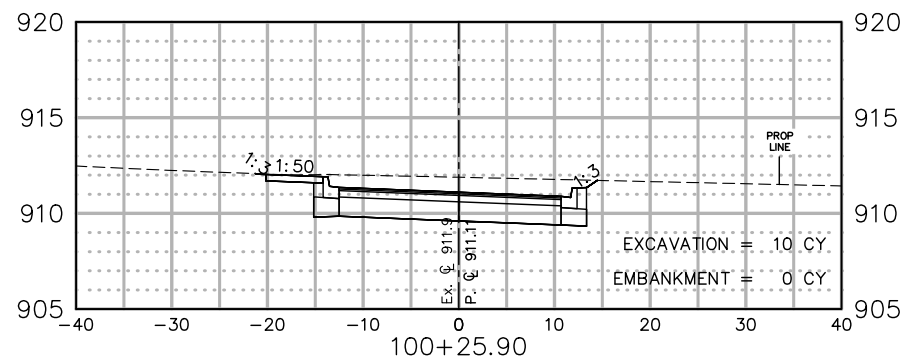
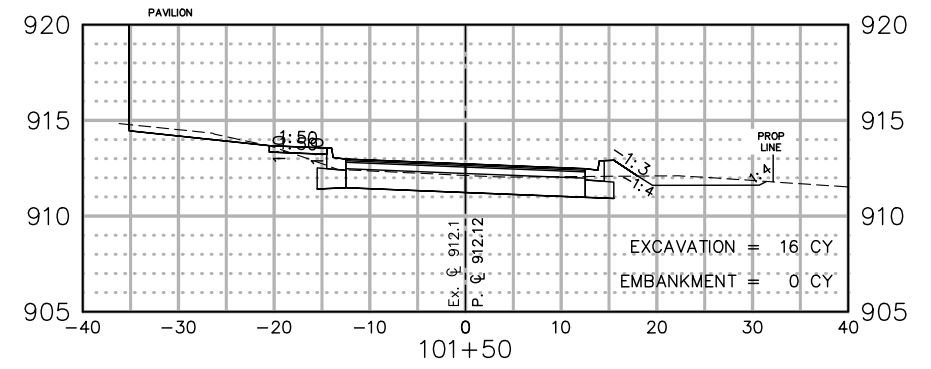
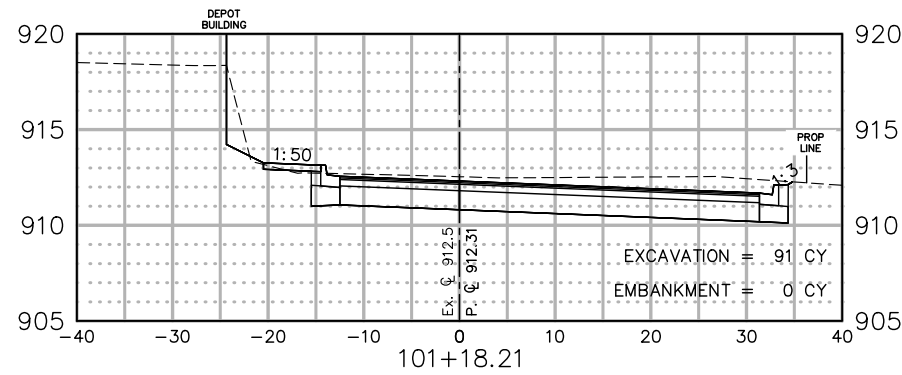
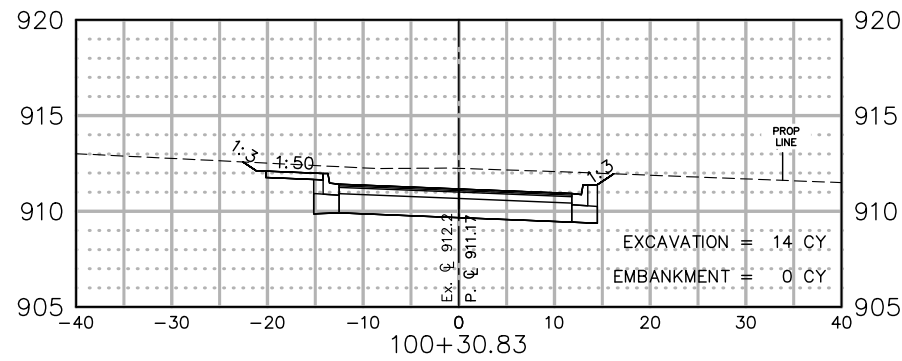
FILE NO.
NF140077
DATE:
X/XX/XX

P:\KON\Nfield\140077\5-final-dsm\51-drawings\10-Civil\cad\dwg\pinshits\NF140077\UT.dwg 6/29/2017 3:08 PM abrelond



DRAWN BY: AH		1. 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. PRELIMINARY SIGNATURE: DATE: WAYNE HULSE Lic. No. 25057		PHONE: 952.912.2600 10901 RED CIRCLE DRIVE #300 MINNETONKA, MN 55343-9302 www.sehinc.com		HISTORIC DEPOT AND TRANSIT HUB NORTHFIELD, MN	PROPOSED UTILITIES	FILE NO. NF140077	7 10
DESIGNER:								DATE: X/XX/XX	
CHECKED BY:									
DESIGN TEAM									
NO.	BY	DATE	REVISIONS						

P:\KON\Nfial\140077\5-final-dsgn\51-drawings\10-Civil\cad\civil_3d\NF140077AL.dwg 6/29/2017 3:00 PM abreland



DRAWN BY: AH				
DESIGNER:				
CHECKED BY:				
DESIGN TEAM	NO.	BY	DATE	REVISIONS

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.

SIGNATURE: WAYNE HOLE
PRINTED NAME: WAYNE HOLE
Date: _____
Lic. No. 25057

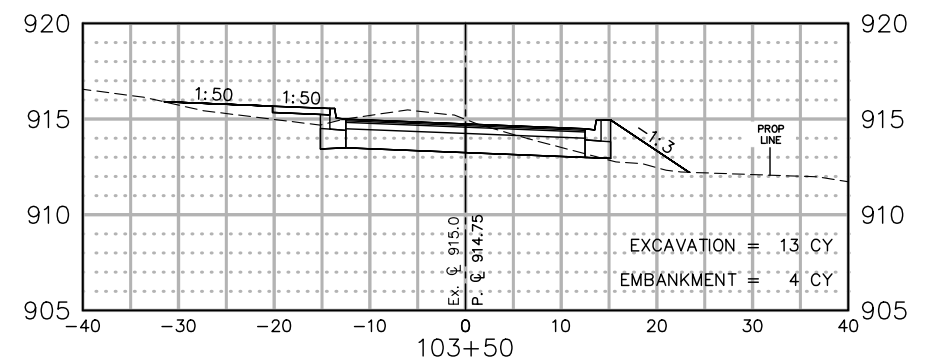
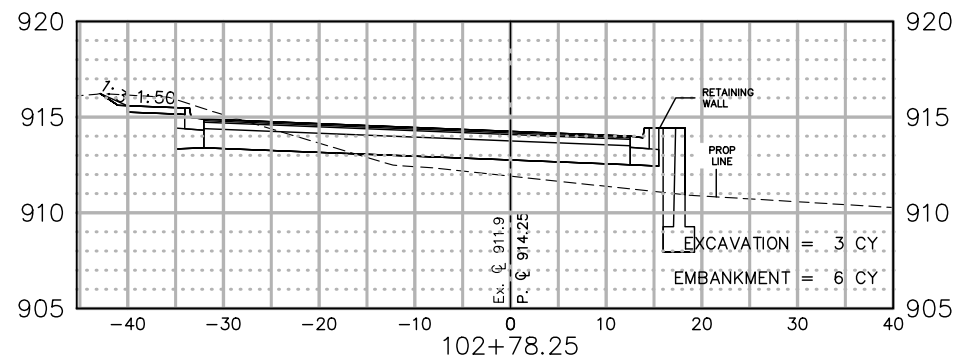
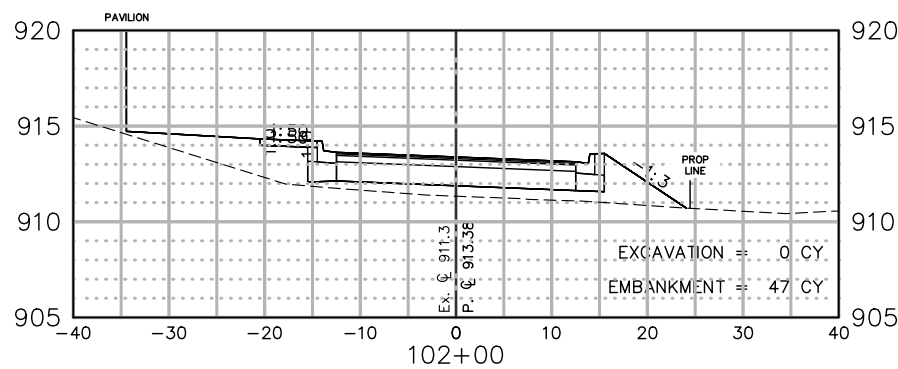
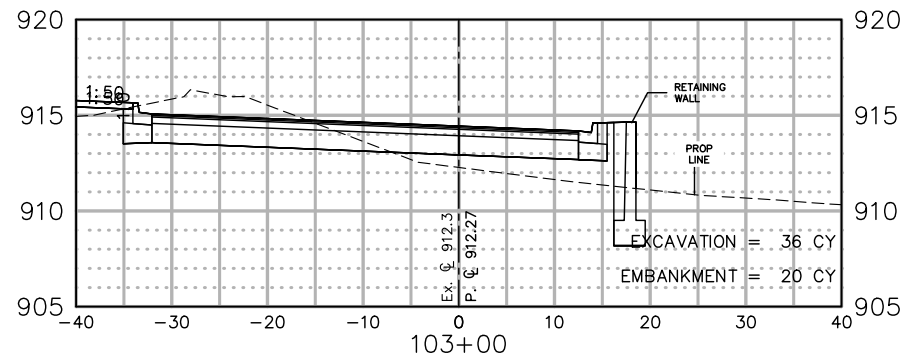
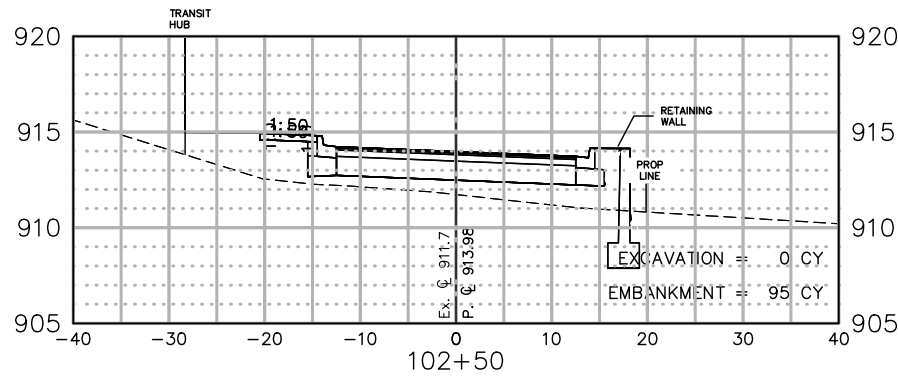
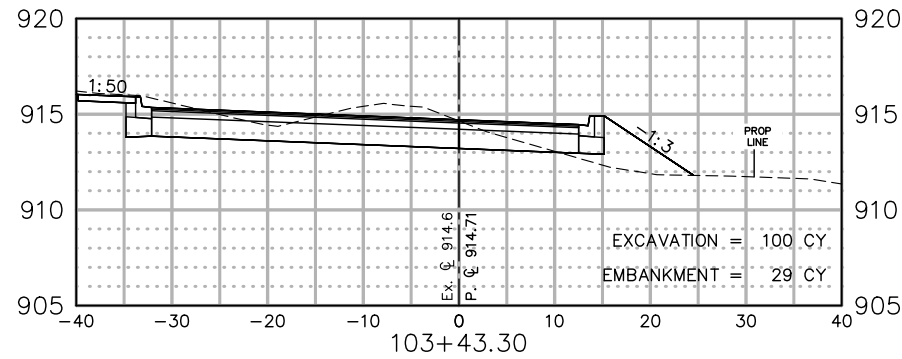
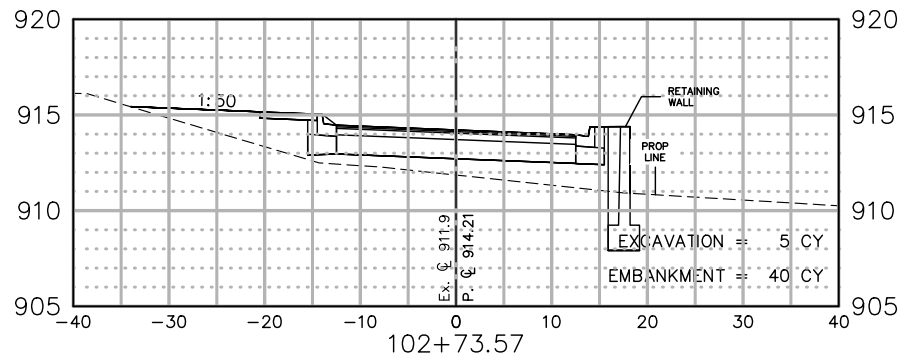


HISTORIC DEPOT
AND TRANSIT HUB
NORTHFIELD, MN

CROSS SECTIONS

FILE NO. NF140077	9
DATE: X/XX/XX	10

P:\KO\N\Final\140077\5-final-dsgn\51-drawings\10-Civil\cod\civil_3d\NF140077AL.dwg 6/29/2017 3:00 PM abreland



DRAWN BY: AH				
DESIGNER:				
CHECKED BY:				
DESIGN TEAM	NO.	BY	DATE	REVISIONS

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.

SIGNATURE: **PRELIMINARY** DATE: _____
WAYNE HOULE Lic. No. 25057
PRINTED NAME

SEH
PHONE: 952.912.2600
10901 RED CIRCLE DRIVE #300
MINNETONKA, MN 55343-9302
www.sehinc.com

City Of
Northfield
Minnesota

**HISTORIC DEPOT
AND TRANSIT HUB
NORTHFIELD, MN**

CROSS SECTIONS

FILE NO. NF140077	10
DATE: X/XX/XX	10