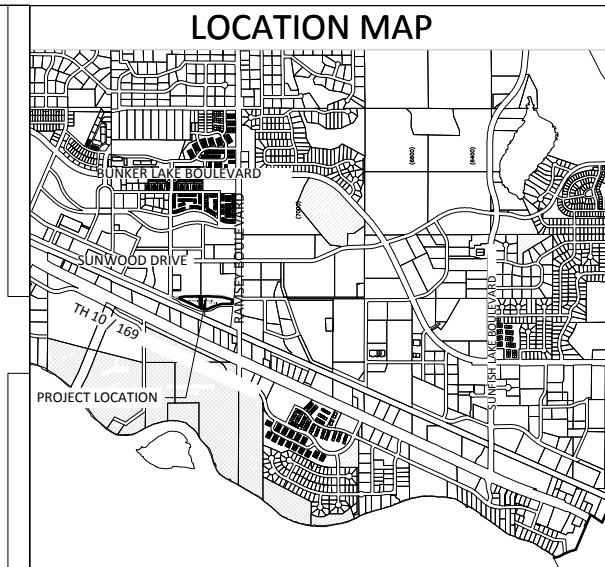


CITY OF RAMSEY

COR INFILTRATION IMPROVEMENTS

CITY IMPROVEMENT PROJECT NO. 18-09



GOVERNING SPECIFICATIONS

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL FEDERAL, STATE AND LOCAL LAWS, REGULATIONS AND ORDINANCES SHALL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

SHEET INDEX

THIS PLAN CONTAINS 37 SHEETS

SHEET No.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	TYPICAL SECTION
4	ALIGNMENT LAYOUT
5 - 8	EXISTING CONDITIONS AND EROSION CONTROL
9 - 10	REMOVAL PLANS
11 - 14	GRADING PLANS
15	EXISTING STORM SEWER PLAN AND PROFILE
16	PROPOSED STORM SEWER PLAN AND PROFILE
17	ACCESS ROAD PLAN AND PROFILE
18 - 30	CROSS SECTIONS - ACCESS ROAD
30 - 33	SWPPP
34 5.01	LIFT STATION PLANS AND SECTIONS
35 7.01	LIFT STATION ELECTRICAL PLAN
36 7.02	LIFT STATION ELECTRICAL DETAILS

LEGEND

	LIGHT POLE		EASEMENT
	TREE		RIGHT OF WAY
	TREE		ELECTRIC
	SHRUB		OVERHEAD ELECTRIC
	SIGN		GAS
	VALVE		TELECOMMUNICATIONS
	UTILITY PEDESTAL		STORM SEWER
	HAND HOLE		SANITARY SEWER
	REMOVE TREE		WATERMAIN
	3'X2' CATCH BASIN		SAWCUT PAVEMENT
	MANHOLE		TREE LINE
	INLET PROTECTION		FENCE
	HYDRANT		LANDSCAPING
	VALVE		RETAINING WALL
			5' CONTOUR LINE
			1' CONTOUR LINE
			SILT FENCE
			EXISTING CONCRETE CURB & GUTTER
			618 CONCRETE CURB & GUTTER
			REMOVE BITUMINOUS PAVEMENT
			SODDING TYPE LAWN
			CONCRETE PAVEMENT
			BITUMINOUS PAVEMENT
			GRAVEL SURFACE
			ROCK CONSTRUCTION EXIT

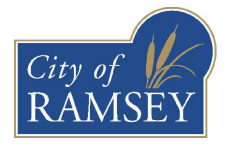
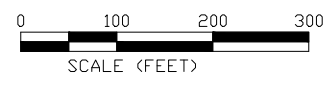
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Leonard L. Linton

21112 DATE 5/23/19
LIC. NO.

LEONARD LINTON, P.E.
RAMSEY CIVIL ENGINEER IV

DATE	REVISION
5/30/19	ADDENDUM NO. 1



CITY OF RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
(763) 427-1410 FAX (763) 433-9898

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

NOTE: EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE CALL 1-800-252-1166 OR 651-454-0002



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18-09 COR INFILTRATION BASIN IMPROVEMENTS					
STATEMENT OF ESTIMATED QUANTITIES					
PAGE No.	NOTE	MNDOT No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
		2021.501	MOBILIZATION	LS	1
9		2101.505	CLEARING	ACRE	0.94
9		2105.505	GRUBBING	ACRE	0.15
9		2104.502	REMOVE STORM SEWER STRUCTURE	EA	3
9		2104.502	BULKHEAD OPENING EXISTING STORM SEWER STRUCTURE	EA	3
9		2104.503	REMOVE STORM SEWER PIPE 15" - 18"	LF	114
9		2104.503	SAWCUT EXISTING BITUMINOUS FULL DEPTH	LF	12
9		2104.504	REMOVE SAWCUT BITUMINOUS	SY	2
		2105.601	DEWATERING	LS	1
11-14		2105.507	COMMON EXCAVATION (EV)	CY	35,000
11-14	6	2105.507	TOPSOIL EXCAVATION (LV)	CY	6,500
17		2112.501	SUBGRADE PREPARATION	RDST	8
17	4	2211.503	AGGREGATE BASE CLASS 5 MODIFIED (CV)	TON	300
9		2232.501	MILL BITUMINOUS 1.5" DEEP	SY	3
17	3	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	60
17	4	2360.501	TYPE SP 9.5 WEARING COURSE MIXTURE (SPWEA340C) (1.5")	TON	110
17	4	2360.502	TYPE SP 12.5 NON WEARING COURSE MIXTURE (SPNWB330C) (2")	TON	150
16		2503.541	24" RC PIPE SEWER, DESIGN 3006 CLASS III	LF	151
16		2504.603	10" DUCTILE IRON PIPE CL 52	LF	167
16		2504.608	DUCTILE IRON FITTINGS	LB	1,265
34-36		2506.501	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	LF	7.5
17, 34-36		2505.601	FURNISH AND INSTALL LIFT STATION	LS	1
17		2506.502	ADJUST EXISTING FRAME AND CASTING	EA	6
16-17		2506.516	FURNISH AND INSTALL CASTING ASSEMBLY	EA	5
16-17		2511.502	FURNISH AND INSTALL RANDOM RIP RAP, CL III	TON	40
16-17		2511.502	PLACE RANDOM RIP RAP, CL V (ONSITE)	TON	145
16-18		2573.501	STABILIZED CONSTRUCTION ENTRANCE	LS	3
5-8		2573.502	SILT FENCE, TYPE MS	LF	9,100
9		2573.530	STORM DRAIN INLET PROTECTION	EA	23
11-14		2574.505	SEED BED PREPARATION	ACRE	12.5
11-14		2575.505	SEEDING, INFILTRATION BASIN	ACRE	4.6
11-14		2575.505	SEEDING, NON INFILTRATION BASIN AREAS	ACRE	7.9
11-14		2575.508	SEED MIXTURE 25-121 (61 LB/ ACRE) UPLAND AREAS	LB	482
11-14		2575.51	SEED MIXTURE 33-261 (35 LB/ ACRE) INFILTRATION WETTED AREA	LB	161
11-14		2575.504	EROSION CONTROL BLANKET CATEGORY 3 N	SY	23,246
11-14		2575.511	MULCH MATERIAL TYPE 1	TON	16
11-14		2575.519	DISC ANCHORING	ACRE	12.5
11-14	6	2575.525	SPREAD COMMON TOPSOIL BORROW (LV)	CY	6500

PAY ITEM NOTES:

1. REMOVAL LIMITS SHALL BE MARKED IN THE FIELD BY CITY STAFF.
2. EV TO CV CONVERSION FACTOR = 1.2.
3. ESTIMATED QUANTITY BASED ON APPLICATION RATE OF 0.07 GAL/SY.
4. ESTIMATED QUANTITY BASED ON APPLICATION RATE OF 110 LB/SY-IN.
5. MODIFIED CLASS 5 OR APPROVED BITUMINOUS RECLAMATION MATERIAL.
6. CONTRACTOR SHALL SALVAGE AND STOCKPILE AVAILABLE TOPSOIL ON SITE. STOCKPILE LOCATION IS NORTH OF EAST BASIN.

GENERAL NOTES:

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. IT IS NOT GUARANTEED ANY OR ALL EXISTING UTILITIES ARE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING IRRIGATION SYSTEMS WITHIN THE PROJECT CONSTRUCTION LIMITS BEFORE COMMENCING WORK. THE CONTRACTOR IS RESPONSIBLE FOR AVOIDING DAMAGE TO IRRIGATION SYSTEMS WHERE POSSIBLE.

2.

STORM SEWER STRUCTURE AND CASTING TABLE							
PAGE NO.	STRUCTURE	DESIGN	RIM	INVERT	CASTING	SIDE OPENING	SIDE COVER (1)
16	WM	48-4020	864.50	859.80	R-1733	18"	AG3030-72
16	EM	48-4020	864.50	859.80	R-1733	18"	AG3030-72
16	SK	48-4020	854.00	848.50	RCG48 (1)		

(1) HAALA MANUFACTURING

2.

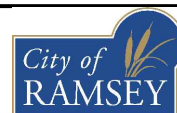
DATE	REVISION
5/30/19	ADDENDUM NO. 1
6/05/19	2. ADDENDUM NO. 2

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Leonard Linton
LEONARD LINTON
Date 5/23/19 Lic. No. 5/23/19

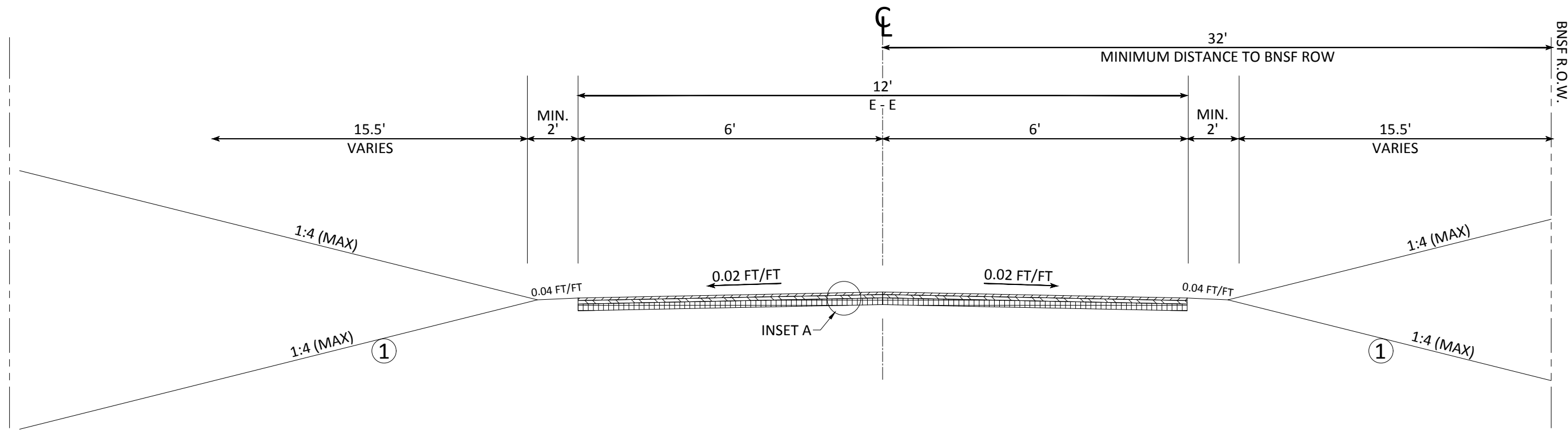
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DATE:
5/23/19
FILE No.
18-09



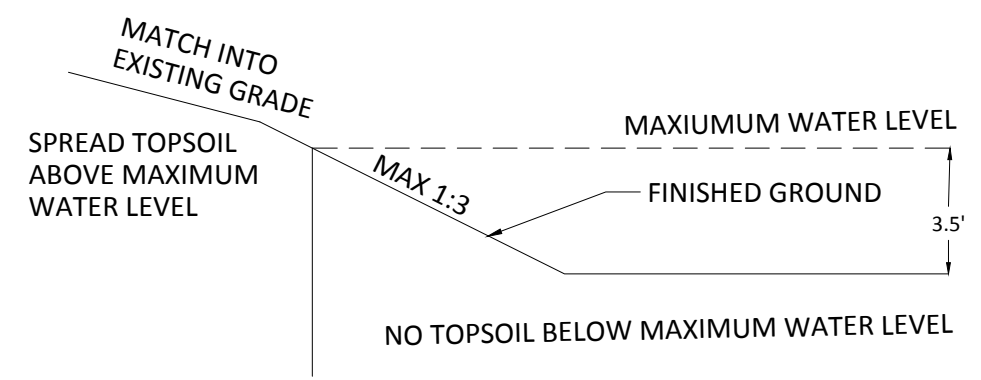
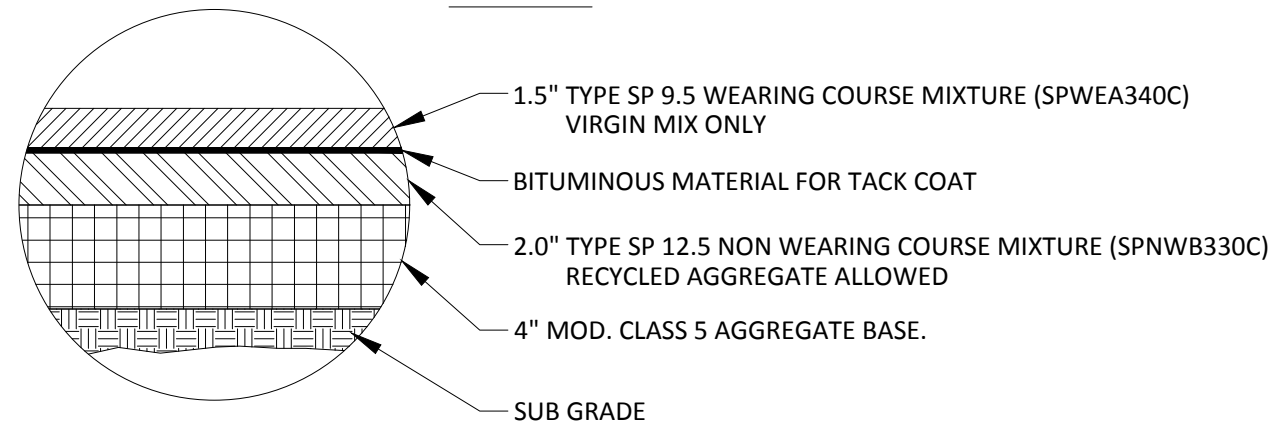
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STATEMENT OF ESTIMATED QUANTITIES

COR INFILTRATION BASIN IMPROVEMENTS
CITY PROJECT NO. 18-09
CITY OF RAMSEY, MINNESOTA



INSET A:



REFERENCE NOTES:

- ① GRADE TO MATCH EXISTING GROUND. ESTABLISH TURF USING A MINIMUM OF 4" COMMON TOPSOIL BORROW AND SODDING TYPE NATIVE VEGETATION.

NOTE: NOT TO SCALE

NOTE: NOT TO SCALE

TYPICAL PAVEMENT SECTION

BASIN BANK DETAIL

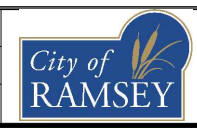
TYPICAL SECTION OF BASIN BANK

DATE	REVISION

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Leonard Linton
LEONARD LINTON
 Date 5/23/19 Lic. No. 21112

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DRAWN BY: LLL	FILE No.:
CHECKED BY: BRW	18-09

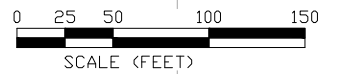


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TYPICAL SECTIONS

COR INFILTRATION BASIN IMPROVEMENTS
 CITY PROJECT NO. 18-09
 CITY OF RAMSEY, MINNESOTA

ACCESS ROAD CL ALIGNMENT



ALIGNMENT LINE TABLE				
Line #	Length	Direction	Start Point	End Point
L26	106.330	S65° 55' 14.17"E	(451454.7920,171139.1636)	(451551.8693,171095.7807)
L29	419.732	S69° 18' 02.88"E	(451645.2140,171021.0097)	(452037.8521,170872.6504)
L30	87.937	N84° 24' 10.98"E	(452060.4017,170869.6613)	(452147.9193,170878.2377)
L31	51.256	S89° 48' 23.20"E	(452147.9193,170878.2377)	(452199.1750,170878.0646)

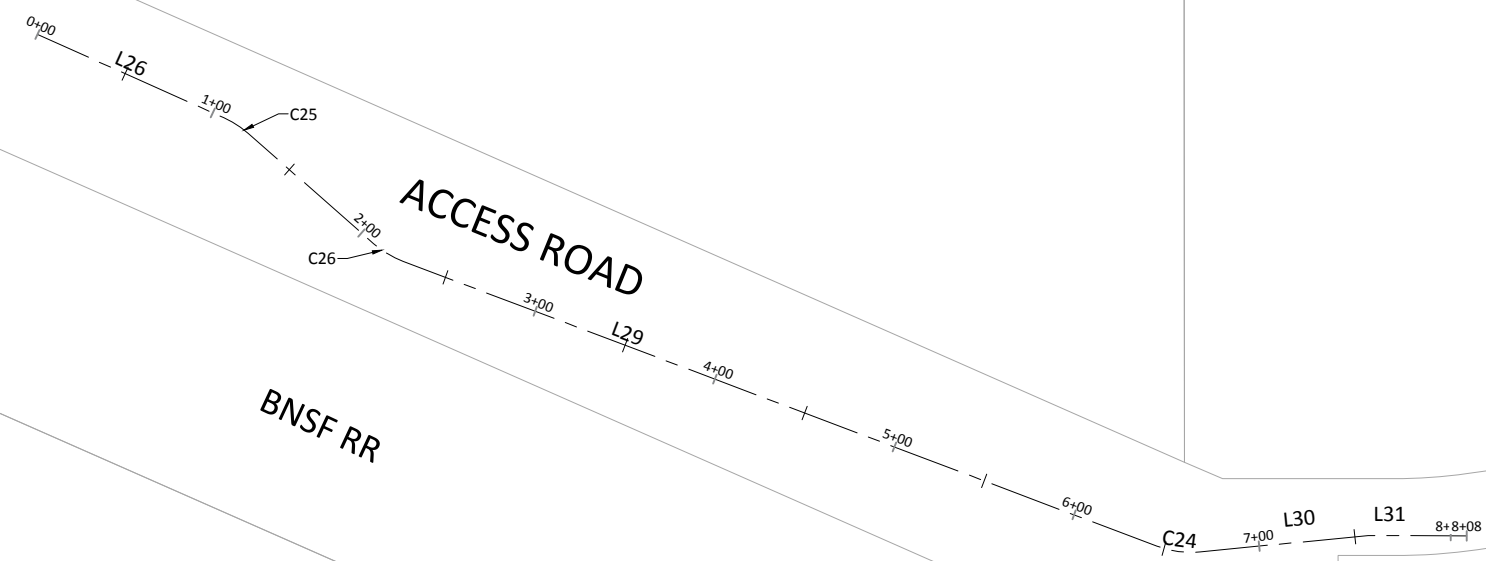
ALIGNMENT CURVE TABLE					
Curve #	Radius	Length	Chord Direction	Start Point	End Point
C24	50.000	22.948	S82° 26' 55.95"E	(452037.8521,170872.6504)	(452060.4017,170869.6613)
C25	50.000	15.030	S57° 18' 32.64"E	(451551.8693,171095.7807)	(451564.4709,171087.6935)
C26	50.000	17.980	S58° 59' 57.00"E	(451629.8854,171030.2204)	(451645.2140,171021.0097)

RHINESTONE STREET

ACCESS ROAD

BNSF RR

TH10/169



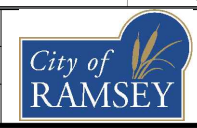
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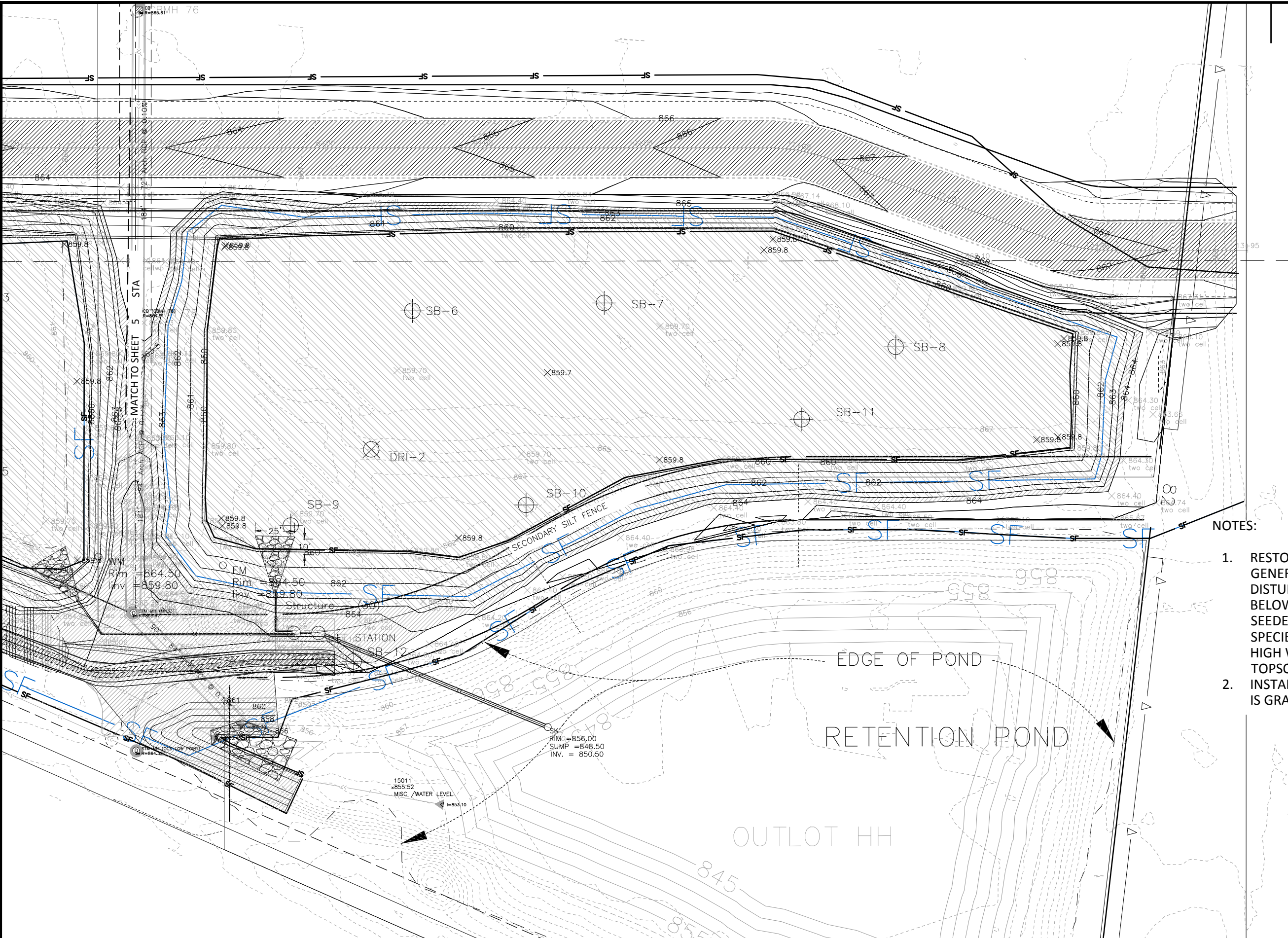
DATE: 5/23/19
FILE No. 18-09



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ALIGNMENTS

COR INFILTRATION BASIN IMPROVEMENTS
CITY PROJECT NO. 18-09
CITY OF RAMSEY, MINNESOTA



NOTES:

1. RESTORATION AREAS ARE SHOWN IN A GENERAL MANNER ONLY. RESTORE ALL DISTURBED AREAS WITH SEEDING. AREAS BELOW THE HIGH WATER LEVEL SHALL BE SEEDED WITH INUNDATION TOLERANT SPECIES. AND NO TOPSOIL. AREAS ABOVE HIGH WATER LEVEL SHALL RECEIVE 4" TOPSOIL.
2. INSTALL SECONDARY SILT FENCE AFTER BASIN IS GRADED.

LEGEND

- INFILTRATION AREA WITH NATIVE VEGETATION
- UPLAND SEEDING
- SILT FENCE
- INLET PROTECTION
- PROPOSED CONTOUR
- EXISTING CONTOUR
- ROCK CONSTRUCTION ENTRANCE

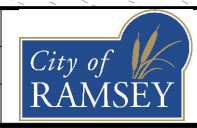
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5/30/19	ADDENDUM NO. 1

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LLL
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DATE:
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FILE No.
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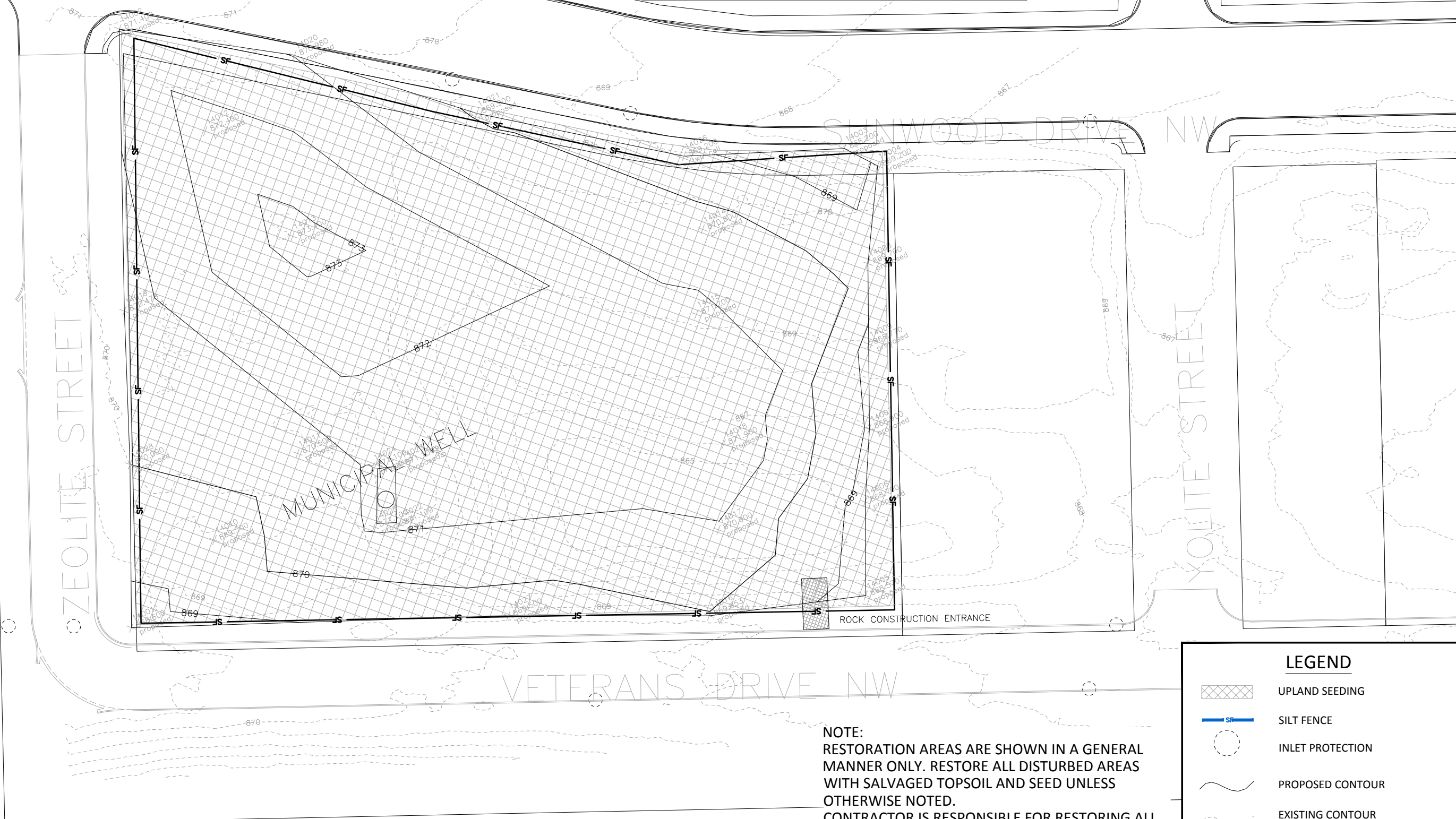


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EXISTING CONDITIONS AND EROSION CONTROL
PLAN EAST BASIN

COR INFILTRATION BASIN IMPROVEMENTS
CITY PROJECT NO. 18-09
CITY OF RAMSEY, MINNESOTA

MNDOT No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
2573.502	SILT FENCE, TYPE MS	LF	1,510
2573.530	STORM DRAIN INLET PROTECTION	EA	8
2573.501	STABILIZED CONSTRUCTION ENTRANCE	LS	1
2575.508	SEED MIXTURE 25-121 (61 LB/ ACRE) UPLAND AREAS	LB	183
2575.505	SEEDING UPLAND AREAS	ACRE	3
2575.511	MULCH MATERIAL TYPE 1	TON	6.0



NOTE:
RESTORATION AREAS ARE SHOWN IN A GENERAL MANNER ONLY. RESTORE ALL DISTURBED AREAS WITH SALVAGED TOPSOIL AND SEED UNLESS OTHERWISE NOTED.
CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL LANDSCAPING TO AS GOOD OR BETTER CONDITION.

LEGEND	
	UPLAND SEEDING
	SILT FENCE
	INLET PROTECTION
	PROPOSED CONTOUR
	EXISTING CONTOUR
	ROCK CONSTRUCTION ENTRANCE

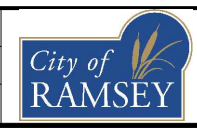
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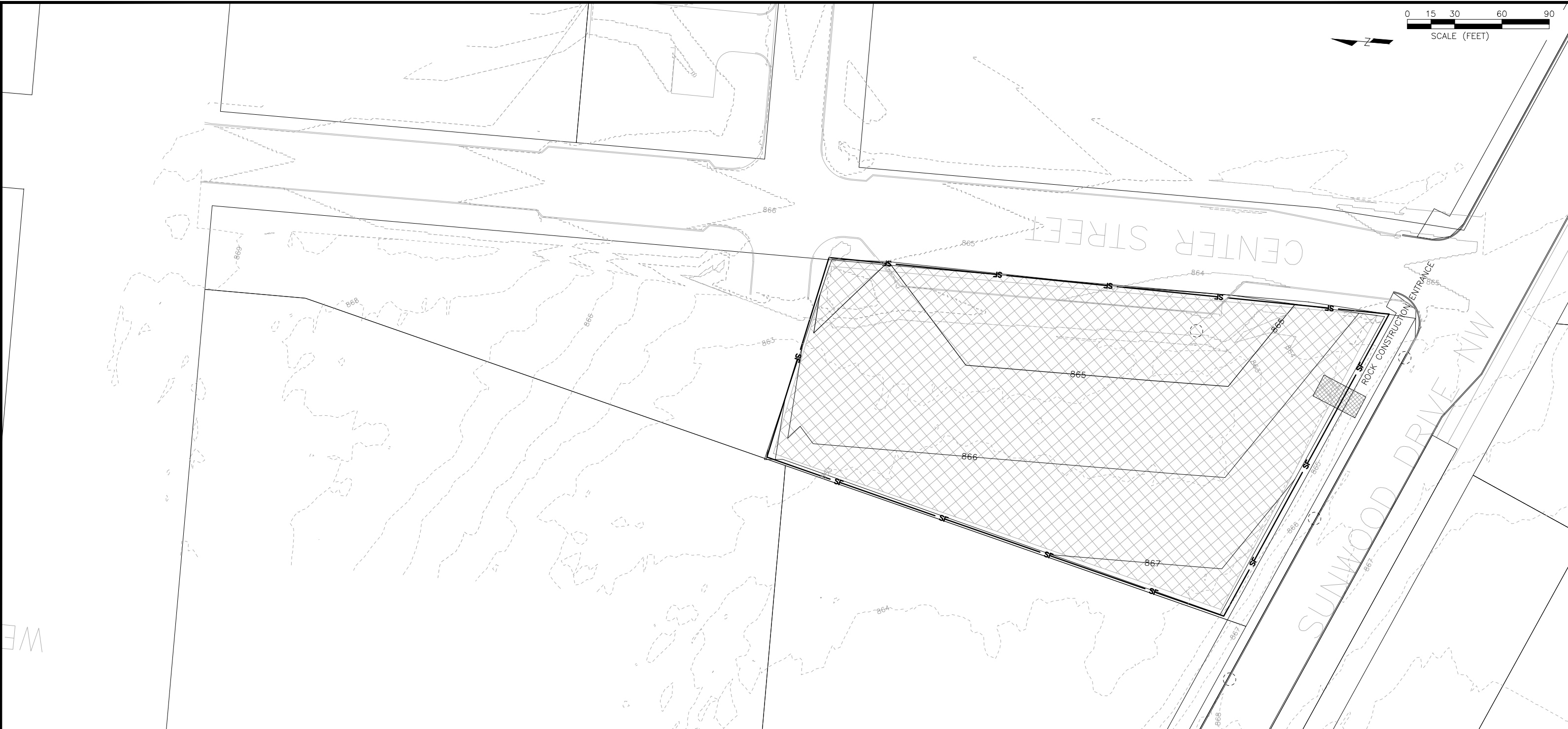
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EXISTING CONDITIONS AND EROSION CONTROL
PLAN ZEOLITE STREET FILL SITE

COR INFILTRATION BASIN IMPROVEMENTS
CITY PROJECT NO. 18-09
CITY OF RAMSEY, MINNESOTA









EROSION CONTROL AND SEEDING QUANTITIES FOR SHEET 8

MNDOT No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY
2573.502	SILT FENCE, TYPE MS	LF	1,510
2573.501	STABILIZED CONSTRUCTION ENTRANCE	LS	1
2573.530	STORM DRAIN INLET PROTECTION	EA	8
2575.508	SEED MIXTURE 25-121 (61 LB/ ACRE) UPLAND AREAS	LB	238
2575.505	SEEDING UPLAND AREAS	ACRE	3.9
2575.511	MULCH MATERIAL TYPE 1	TON	8.0

NOTE:
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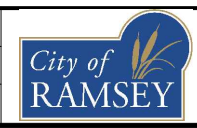
LEGEND

-  SILT FENCE
-  SILT FENCE
-  INLET PROTECTION
-  PROPOSED CONTOUR
-  EXISTING CONTOUR
-  ROCK CONSTRUCTION ENTRANCE

DATE	REVISION
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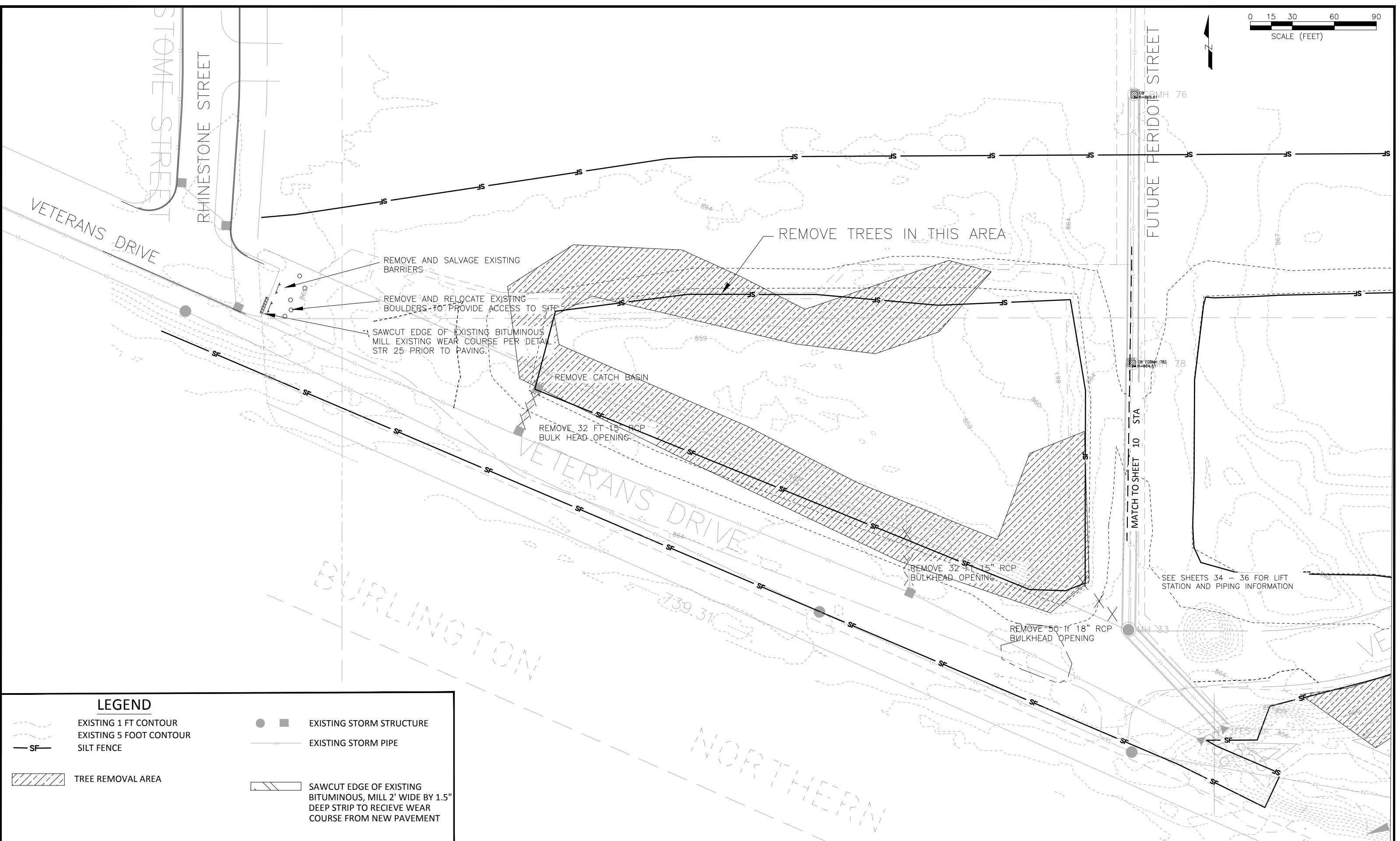
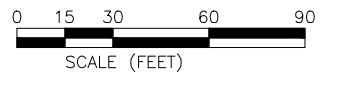
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LLL
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 FILE No.
18-09



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EROSION CONTROL CENTER STREET SITE

COR INFILTRATION BASIN IMPROVEMENTS
 CITY PROJECT NO. 18-09
 CITY OF RAMSEY, MINNESOTA



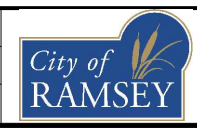
LEGEND	
	EXISTING 1 FT CONTOUR
	EXISTING 5 FOOT CONTOUR
	SILT FENCE
	TREE REMOVAL AREA
	EXISTING STORM STRUCTURE
	EXISTING STORM PIPE
	SAWCUT EDGE OF EXISTING BITUMINOUS, MILL 2' WIDE BY 1.5" DEEP STRIP TO RECIEVE WEAR COURSE FROM NEW PAVEMENT

DATE	REVISION
5/30/19	ADDENDUM NO.1

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Leonard Linton
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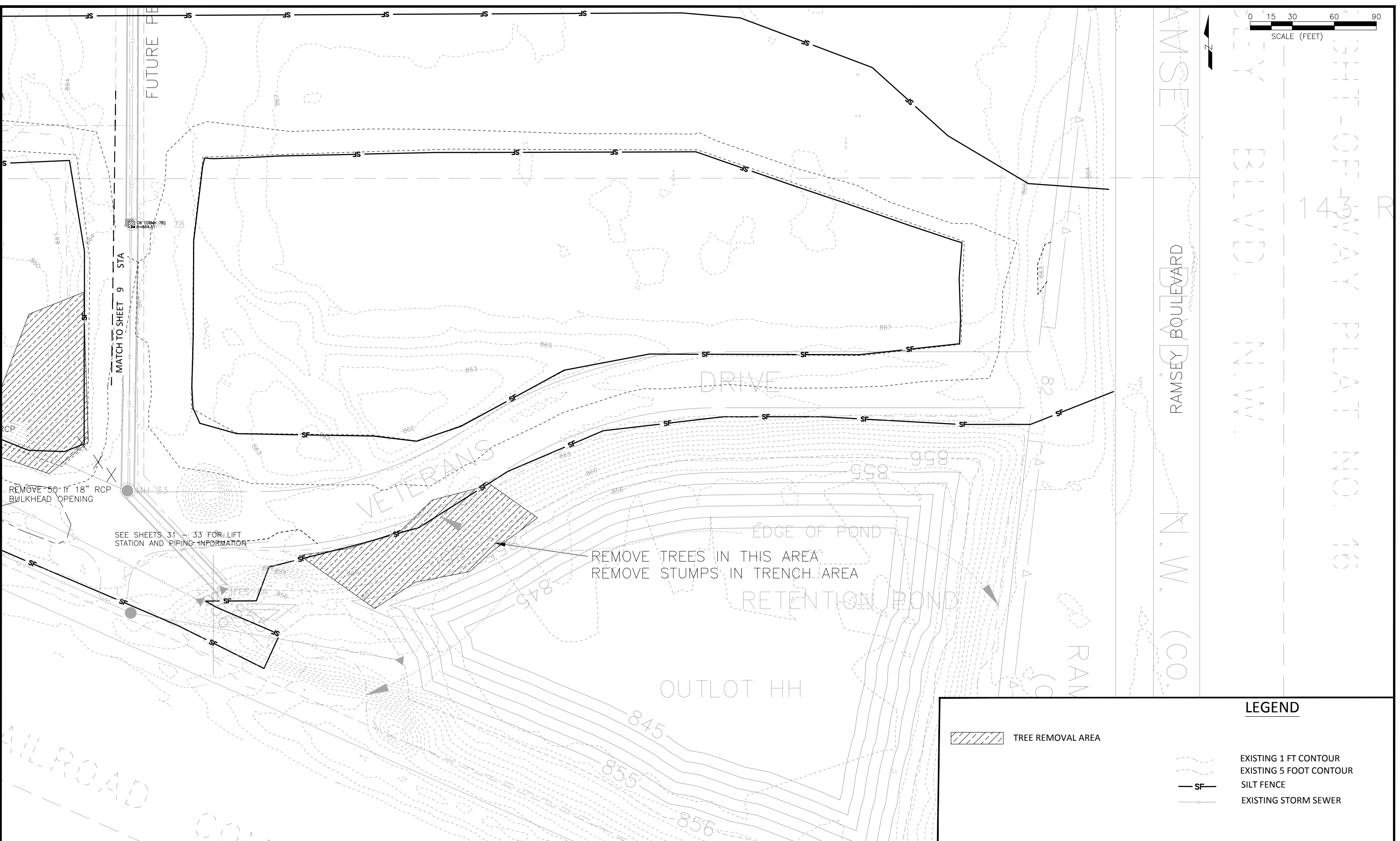
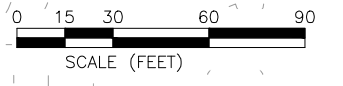
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CHECKED BY: LLL	



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REMOVAL PLAN WEST BASIN

COR INFILTRATION BASIN IMPROVEMENTS
 CITY PROJECT NO. 18-09
 CITY OF RAMSEY, MINNESOTA



LEGEND

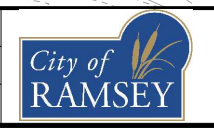
	TREE REMOVAL AREA		EXISTING 1 FT CONTOUR
			EXISTING 5 FOOT CONTOUR
	SILT FENCE		EXISTING STORM SEWER

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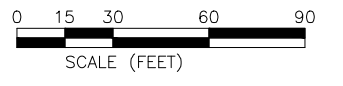


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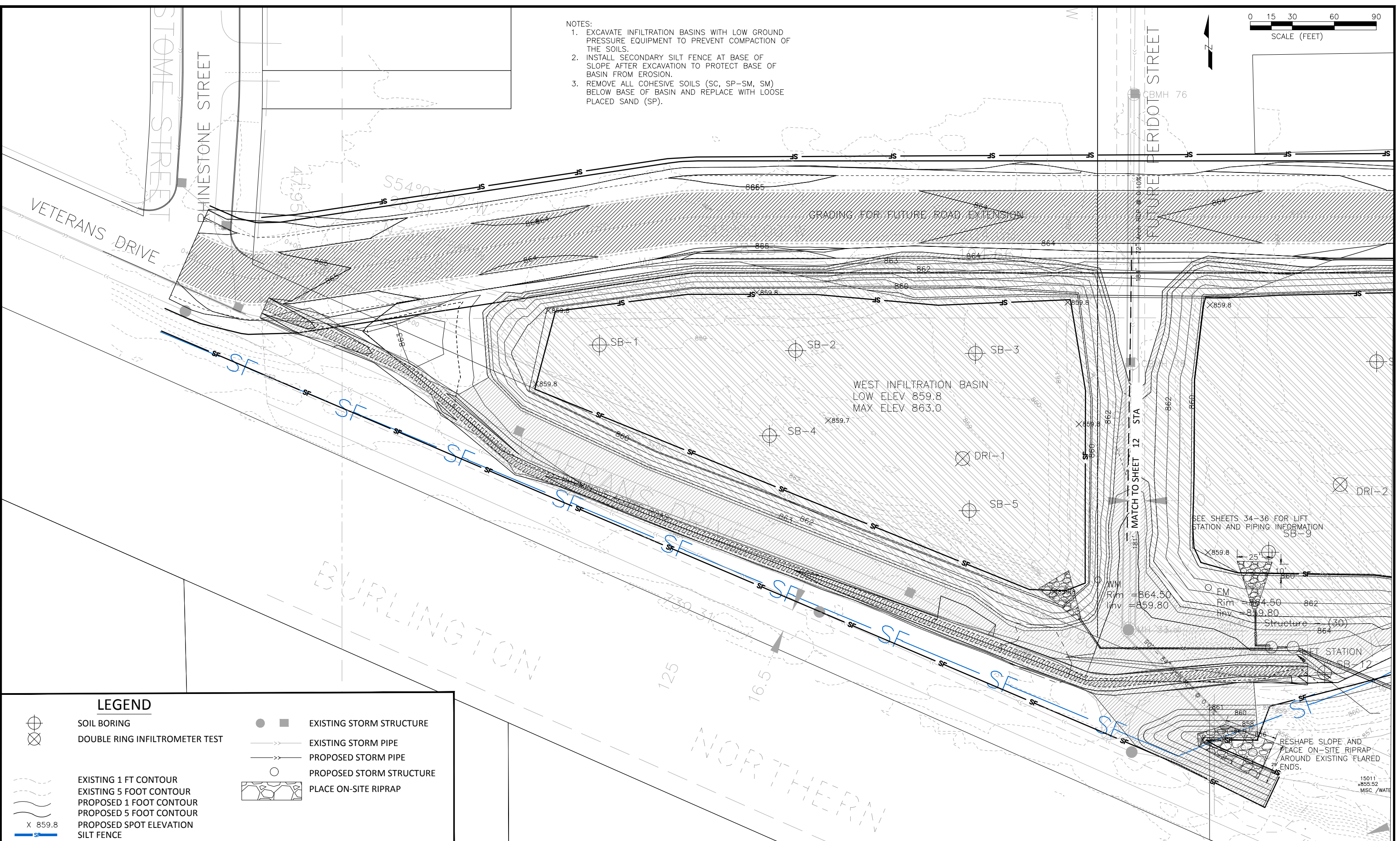
REMOVALS EAST

COR INFILTRATION BASIN IMPROVEMENTS
 CITY PROJECT NO. 18-09
 CITY OF RAMSEY, MINNESOTA

SHEET 10 OF 28 SHEETS



- NOTES:
- EXCAVATE INFILTRATION BASINS WITH LOW GROUND PRESSURE EQUIPMENT TO PREVENT COMPACTION OF THE SOILS.
 - INSTALL SECONDARY SILT FENCE AT BASE OF SLOPE AFTER EXCAVATION TO PROTECT BASE OF BASIN FROM EROSION.
 - REMOVE ALL COHESIVE SOILS (SC, SP-SM, SM) BELOW BASE OF BASIN AND REPLACE WITH LOOSE PLACED SAND (SP).



LEGEND

- SOIL BORING
- DOUBLE RING INFILTRMETER TEST
- EXISTING STORM STRUCTURE
- EXISTING STORM PIPE
- PROPOSED STORM PIPE
- PROPOSED STORM STRUCTURE
- PLACE ON-SITE RIPRAP
- EXISTING 1 FT CONTOUR
- EXISTING 5 FOOT CONTOUR
- PROPOSED 1 FOOT CONTOUR
- PROPOSED 5 FOOT CONTOUR
- PROPOSED SPOT ELEVATION
- SILT FENCE

DATE	REVISION
5/30/19	ADDENDUM NO. 1

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Leonard Linton
LEONARD LINTON
Date 5/23/19 Lic. No. 21112

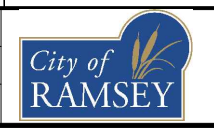
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LLL

DRAWN BY:
LLL

CHECKED BY:
LLL

DATE:
5/23/19

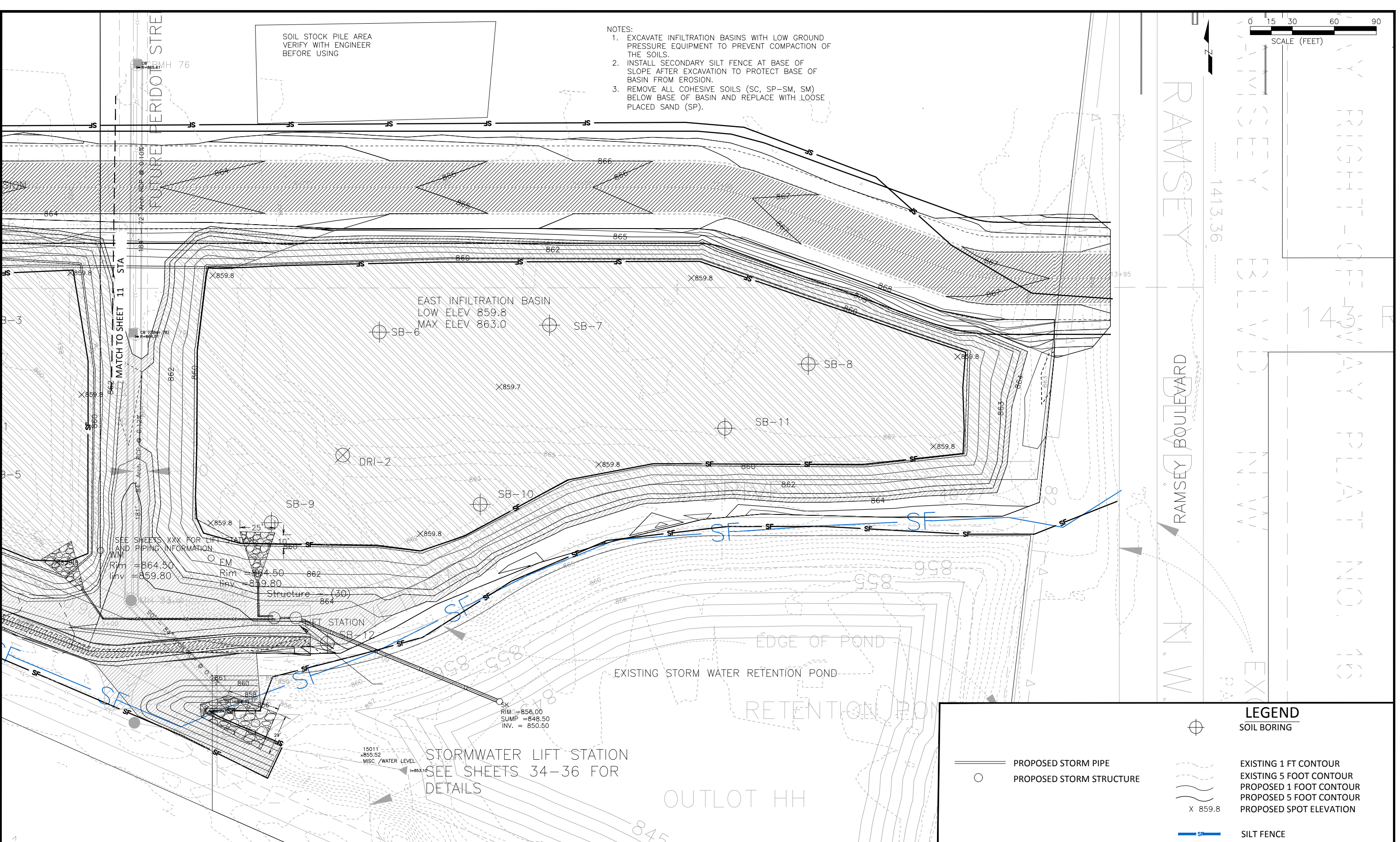
FILE No.
18-09



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GRADING PLAN WEST BASIN

COR INFILTRATION BASIN IMPROVEMENTS
CITY PROJECT NO. 18-09
CITY OF RAMSEY, MINNESOTA



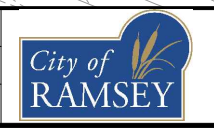
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5/30/19	ADDENDUM NO. 1
Jun 06, 2019 - 9:37am	
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Leonard Linton
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DESIGNED BY:
 LLL
 DRAWN BY:
 LLL
 CHECKED BY:
 BRW

DATE:
 5/23/19
 FILE NO.
 18-09

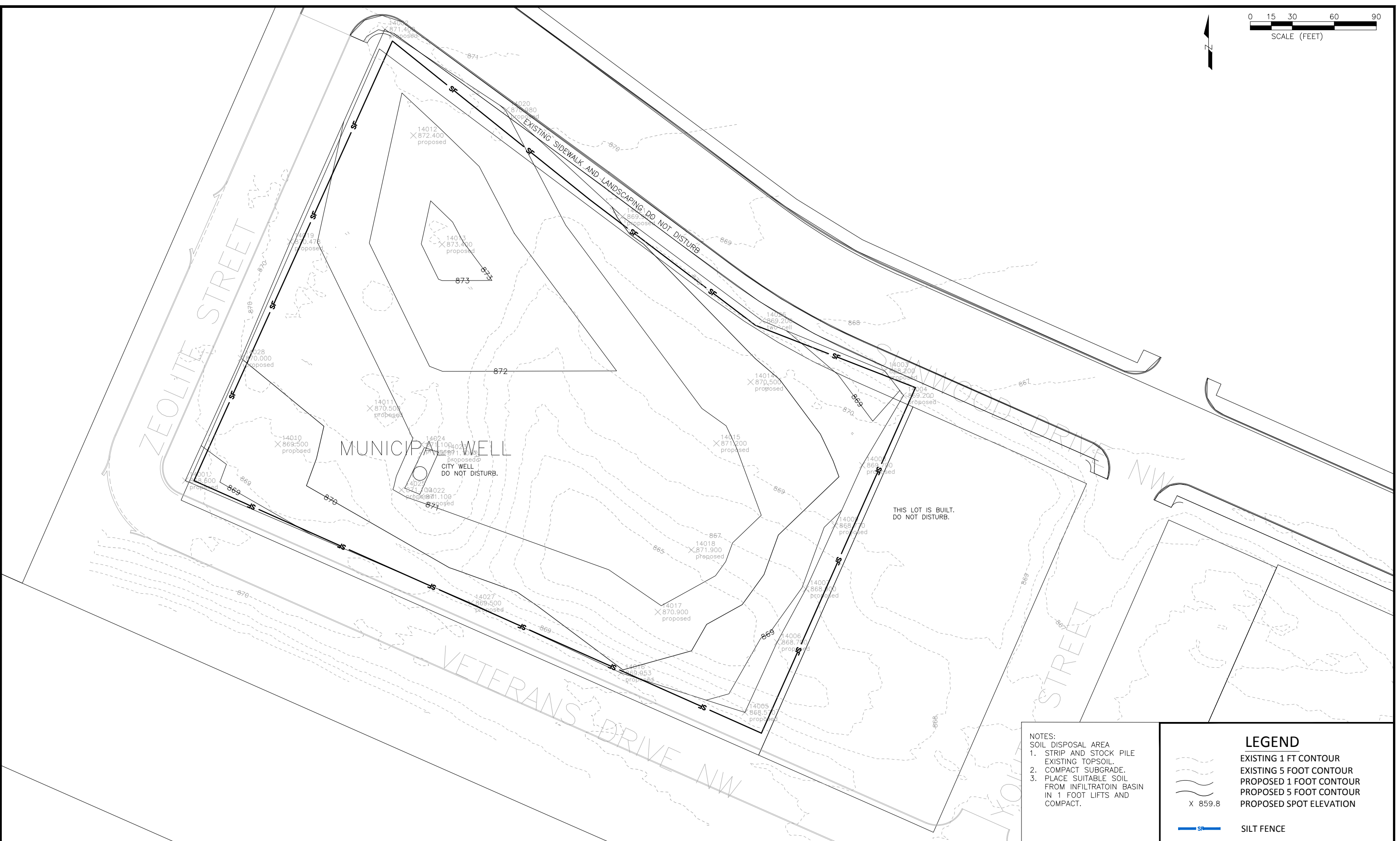


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GRADING PLAN EAST BASIN

COR INFILTRATION BASIN IMPROVEMENTS
 CITY PROJECT NO. 18-09
 CITY OF RAMSEY, MINNESOTA

SHEET 12 OF 37 SHEETS



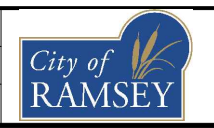
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SOIL DISPOSAL AREA
1. STRIP AND STOCK PILE
EXISTING TOPSOIL.
2. COMPACT SUBGRADE.
3. PLACE SUITABLE SOIL
FROM INFILTRATION BASIN
IN 1 FOOT LIFTS AND
COMPACT.

LEGEND	
	EXISTING 1 FT CONTOUR
	EXISTING 5 FOOT CONTOUR
	PROPOSED 1 FOOT CONTOUR
	PROPOSED 5 FOOT CONTOUR
X 859.8	PROPOSED SPOT ELEVATION
	SILT FENCE

DATE	REVISION

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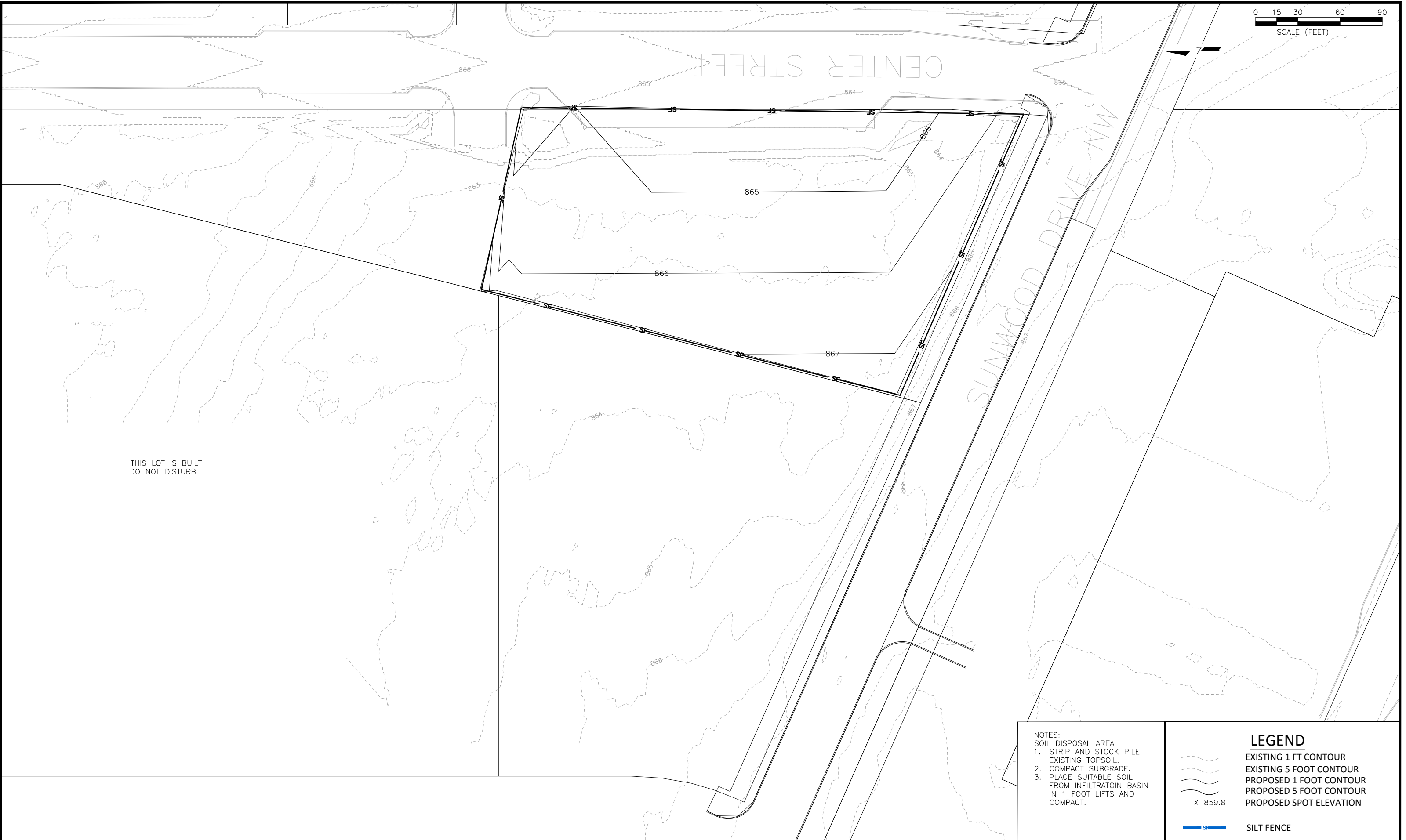
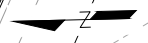
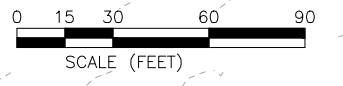
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LLL
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LLL
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 DATE:
5/23/19
 FILE No.
18-09



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GRADING PLAN ZEOLITE STREET SITE

COR INFILTRATION BASIN IMPROVEMENTS
 CITY PROJECT NO. 18-09
 CITY OF RAMSEY, MINNESOTA



THIS LOT IS BUILT
DO NOT DISTURB

- NOTES:
SOIL DISPOSAL AREA
1. STRIP AND STOCK PILE
EXISTING TOPSOIL.
2. COMPACT SUBGRADE.
3. PLACE SUITABLE SOIL
FROM INFILTRATION BASIN
IN 1 FOOT LIFTS AND
COMPACT.

LEGEND	
	EXISTING 1 FT CONTOUR
	EXISTING 5 FOOT CONTOUR
	PROPOSED 1 FOOT CONTOUR
	PROPOSED 5 FOOT CONTOUR
	PROPOSED SPOT ELEVATION
	SILT FENCE

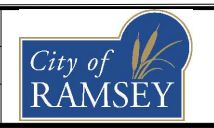
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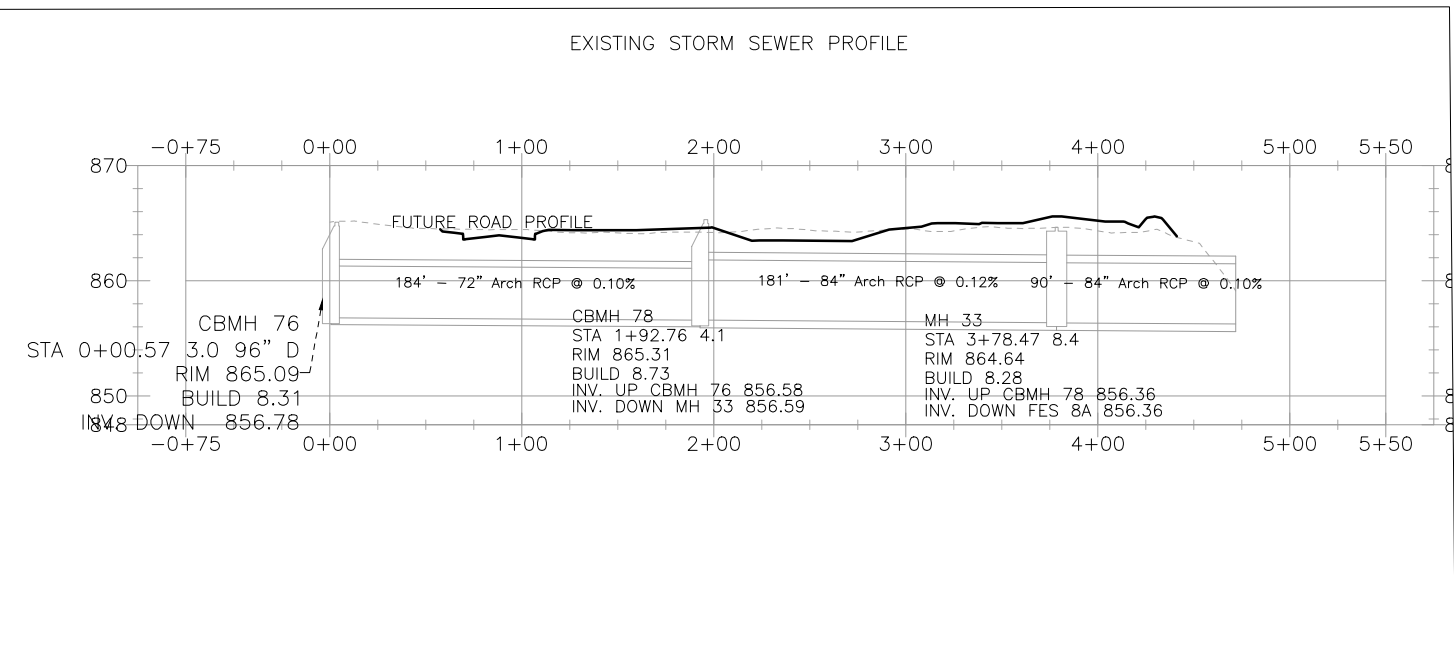
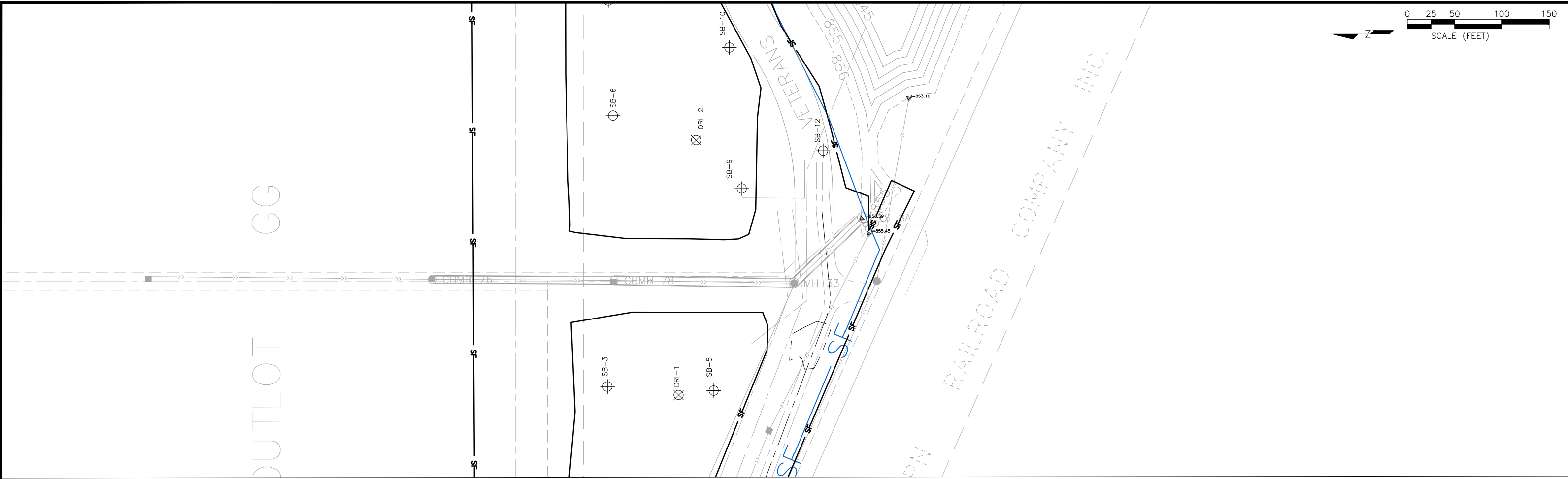
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5/23/19
FILE No.
18-09



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GRADING PLAN CENTER STREET SITE

COR INFILTRATION BASIN IMPROVEMENTS
CITY PROJECT NO. 18-09
CITY OF RAMSEY, MINNESOTA



LEGEND

— EXISTING STORMSEWER

— SF — SILT FENCE

DATE	REVISION
5/30/19	ADDENDUM NO. 1

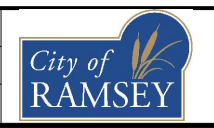
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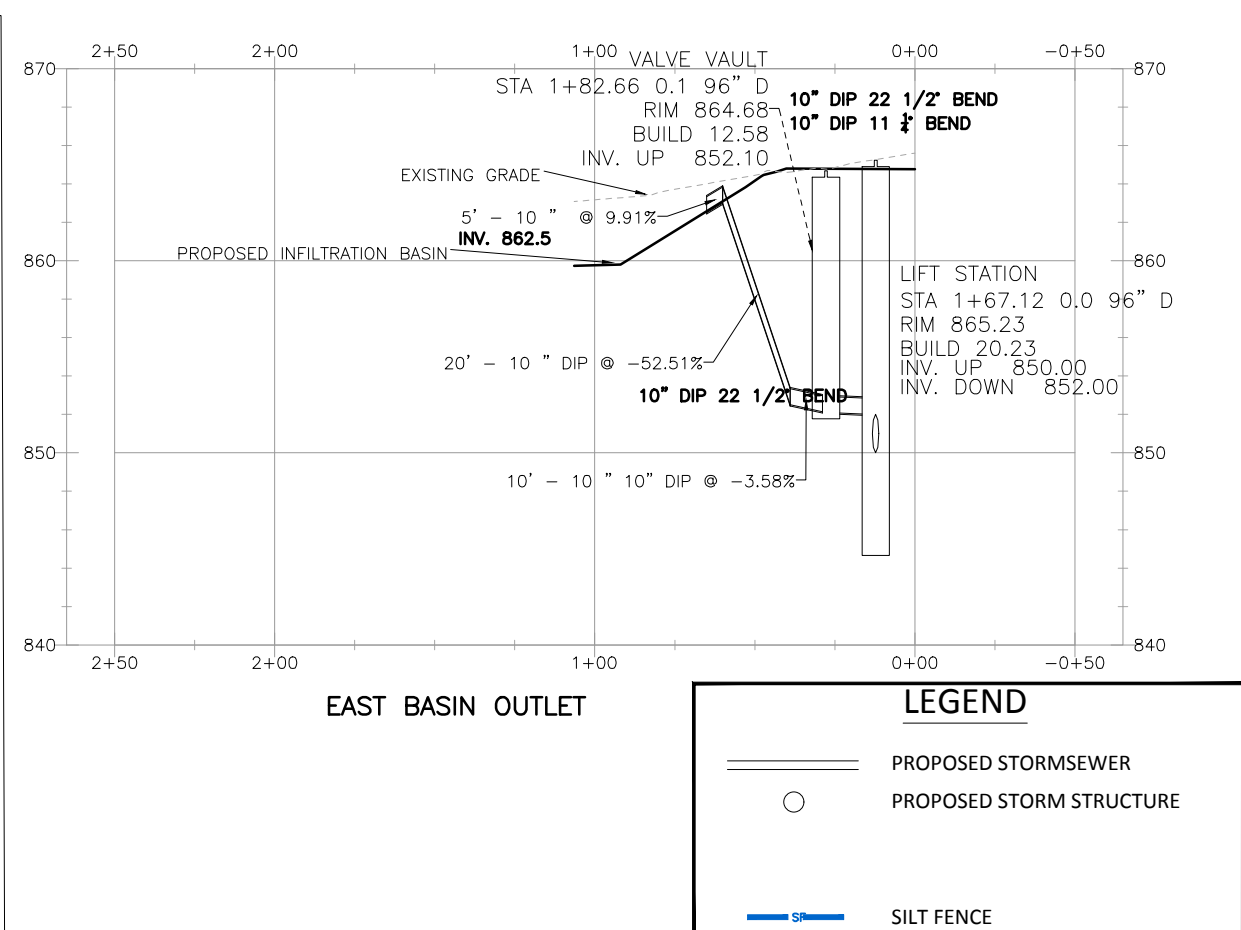
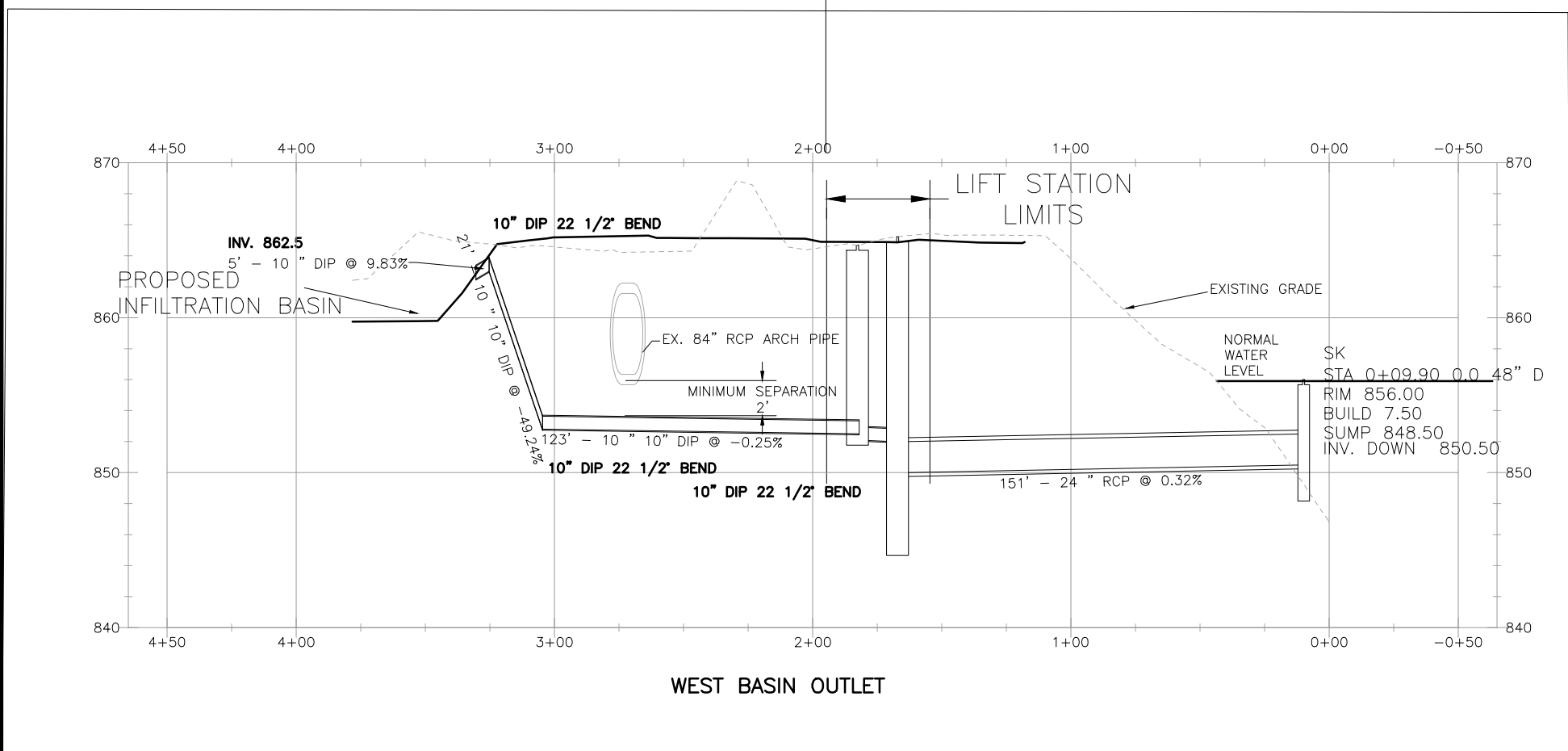
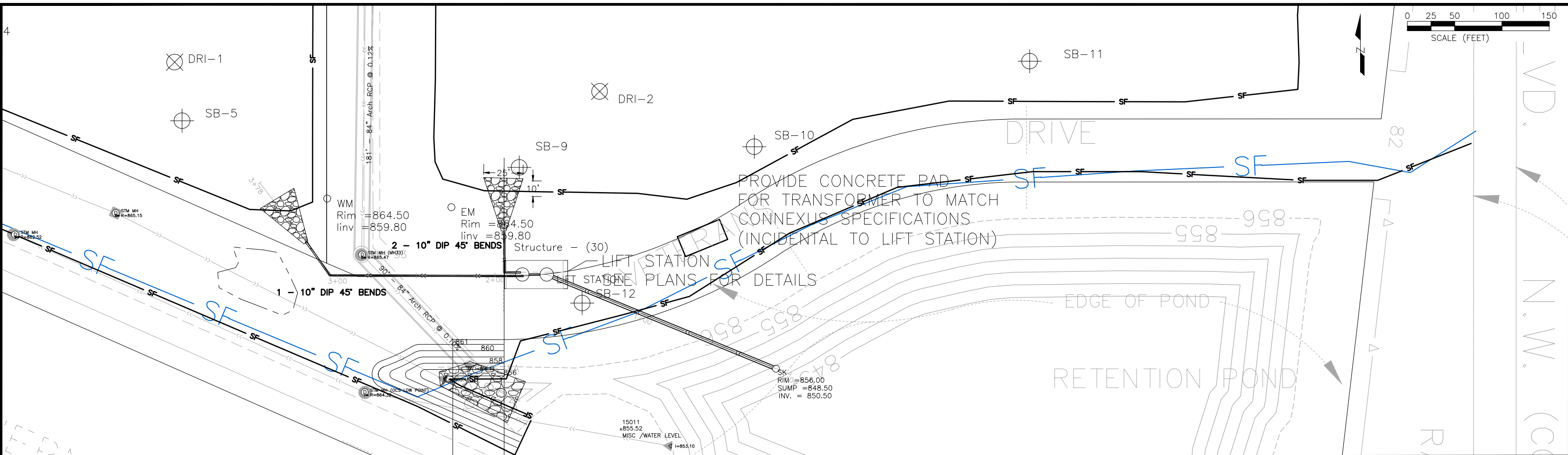
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FILE No.
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EXISTING STORMSEWER PLAN AND PROFILE

COR INFILTRATION BASIN IMPROVEMENTS
CITY PROJECT NO. 18-09
CITY OF RAMSEY, MINNESOTA



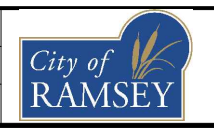
LEGEND	
	PROPOSED STORMSEWER
	PROPOSED STORM STRUCTURE
	SILT FENCE

DATE	REVISION
5/30/19	ADDENDUM NO. 1

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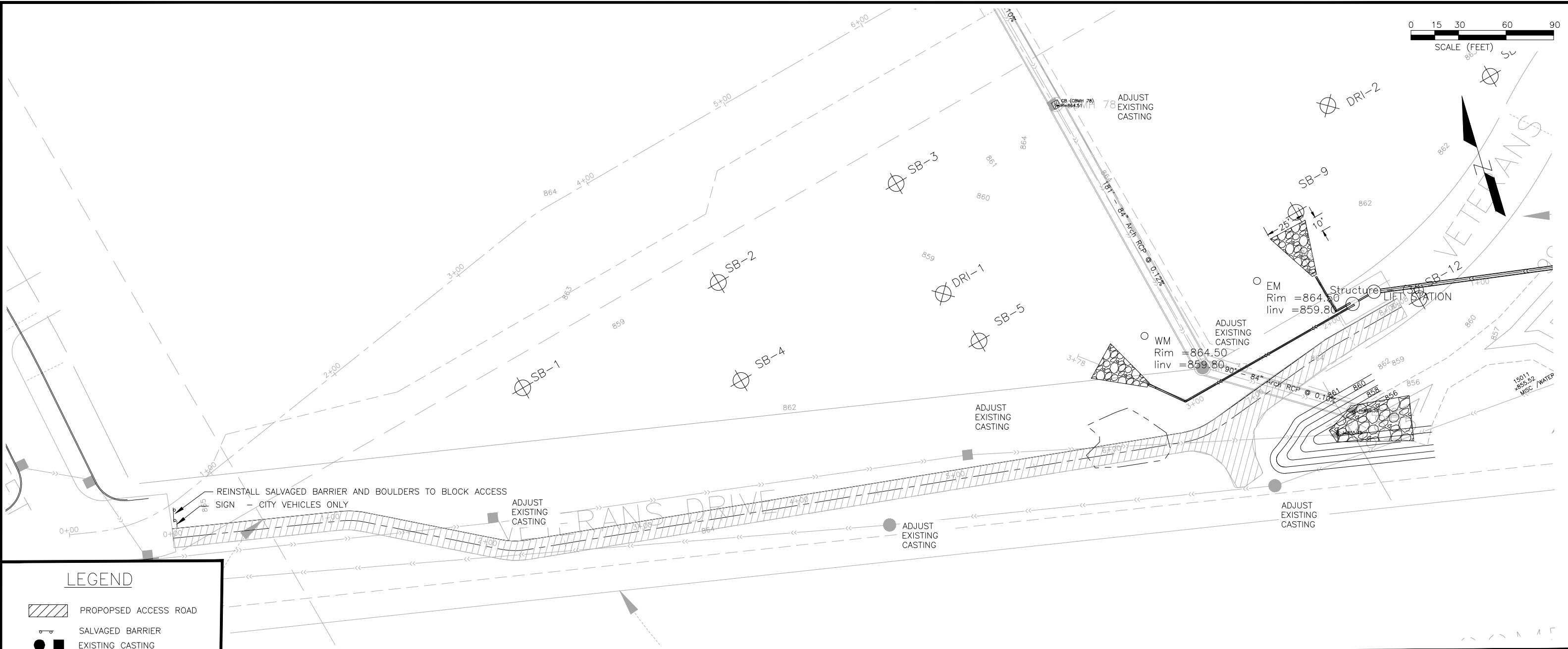
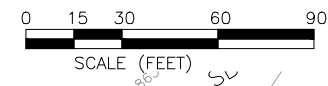
DESIGNED BY:	DATE:
LLL	5/23/19
DRAWN BY:	FILE NO.:
LLL	18-09
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BRW	



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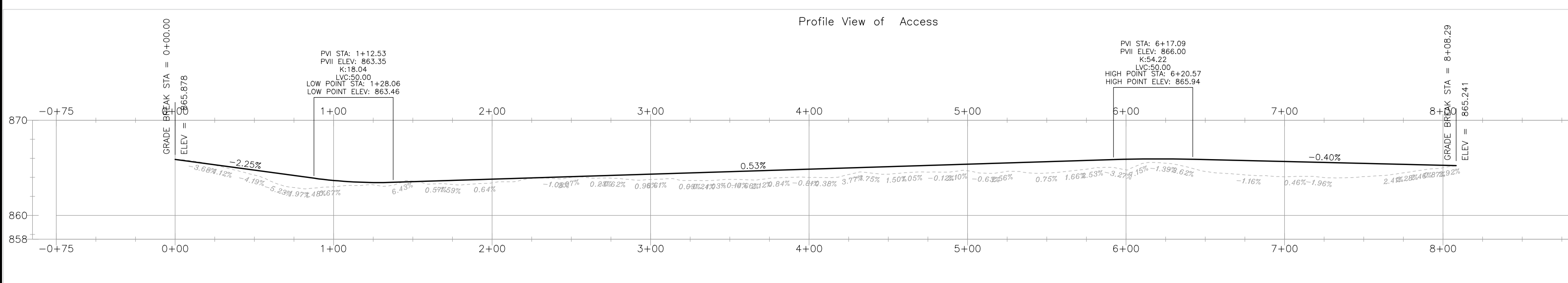
PROPOSED PLAN PROFILE

COR INFILTRATION BASIN IMPROVEMENTS
 CITY PROJECT NO. 18-09
 CITY OF RAMSEY, MINNESOTA



LEGEND

- PROPOSED ACCESS ROAD
- SALVAGED BARRIER
- EXISTING CASTING



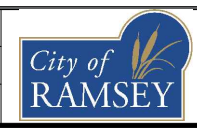
DATE	REVISION
5/30/19	ADDENDUM NO. 1
6/05/19	ADDENDUM NO. 2 ADJUST VIEW PLAN VIEW

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Leonard Linton
LEONARD LINTON
Date 5/23/19 Lic. No. 40116

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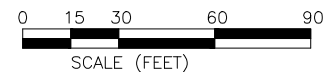
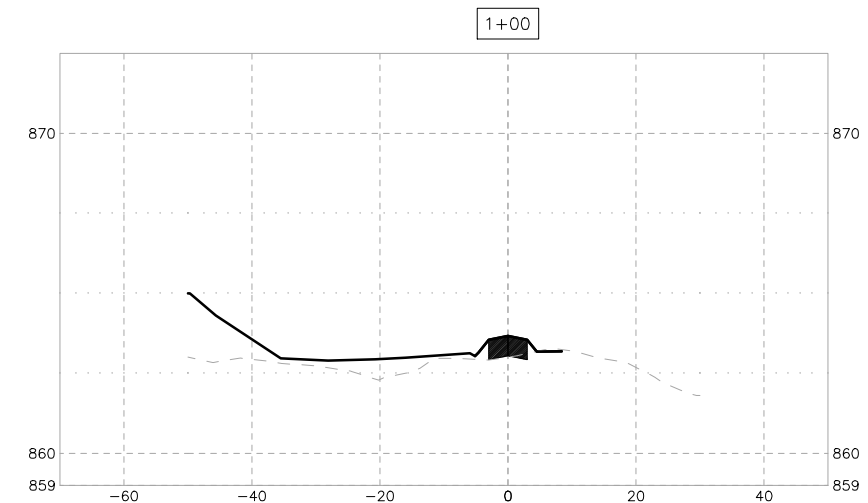
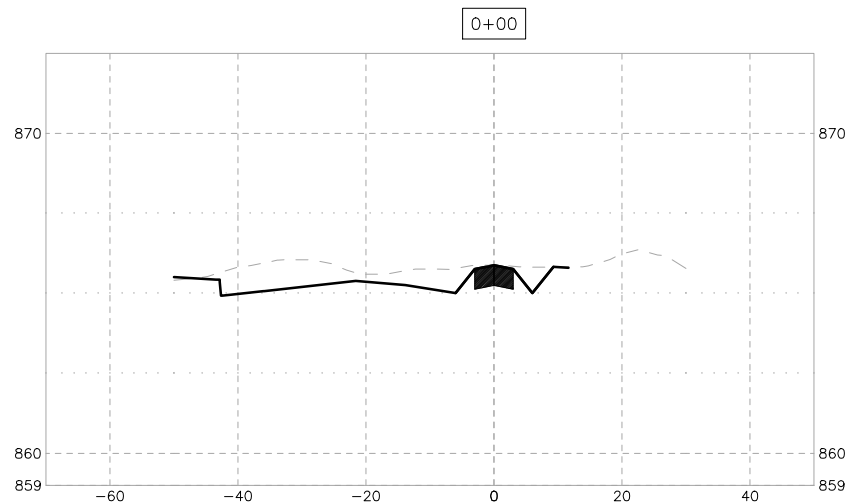
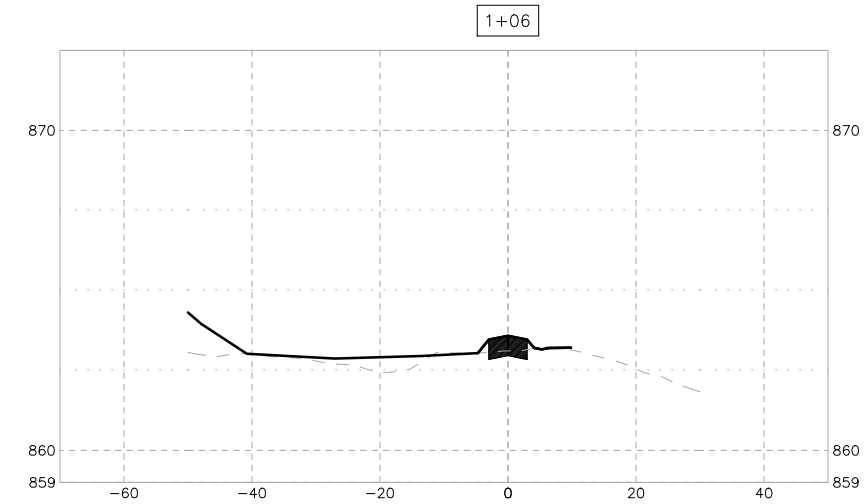
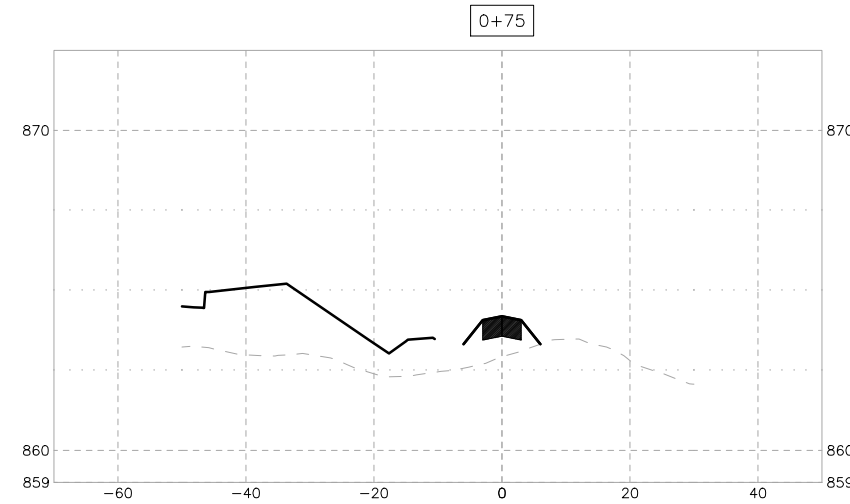
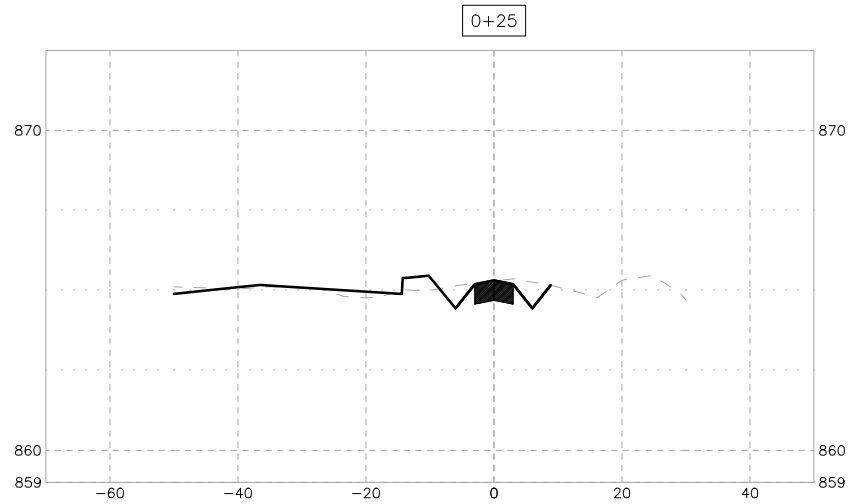
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5/23/19
FILE No.
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ACCESS ROAD PLAN AND PROFILE

COR INFILTRATION BASIN IMPROVEMENTS
CITY PROJECT NO. 18-09
CITY OF RAMSEY, MINNESOTA



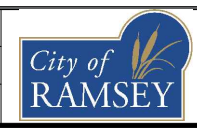
DATE	REVISION
Jun 06, 2019 - 9:20am	
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Leonard R. Linton
LEONARD LINTON
 Date 5/23/19 Lic. No. 21112

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 LLL
 DRAWN BY:
 LLL
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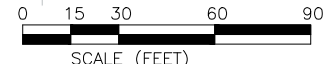
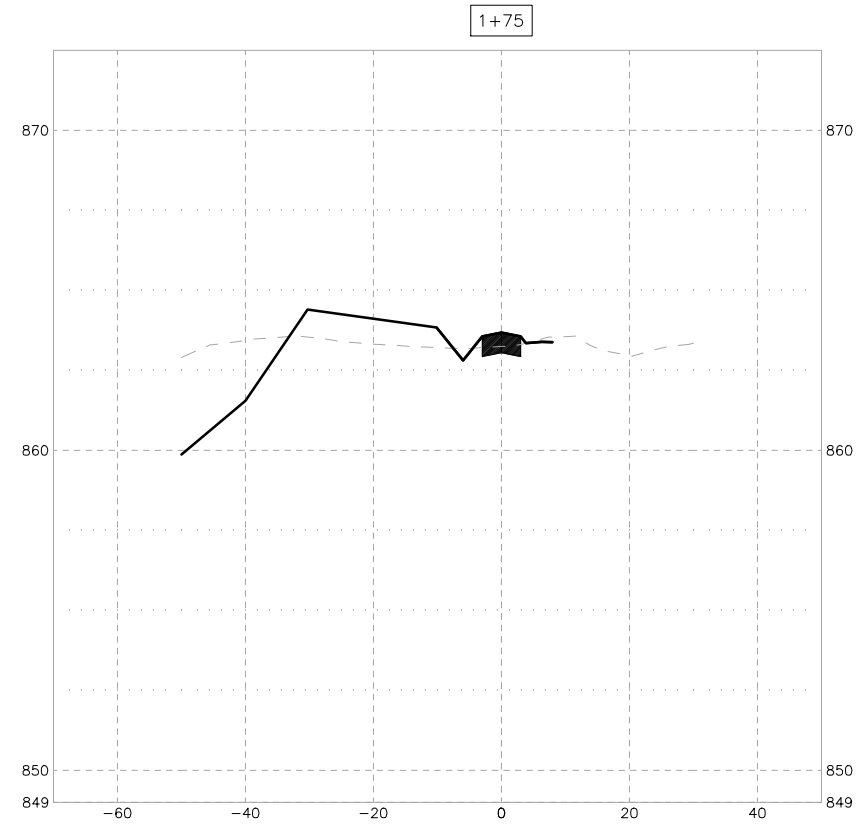
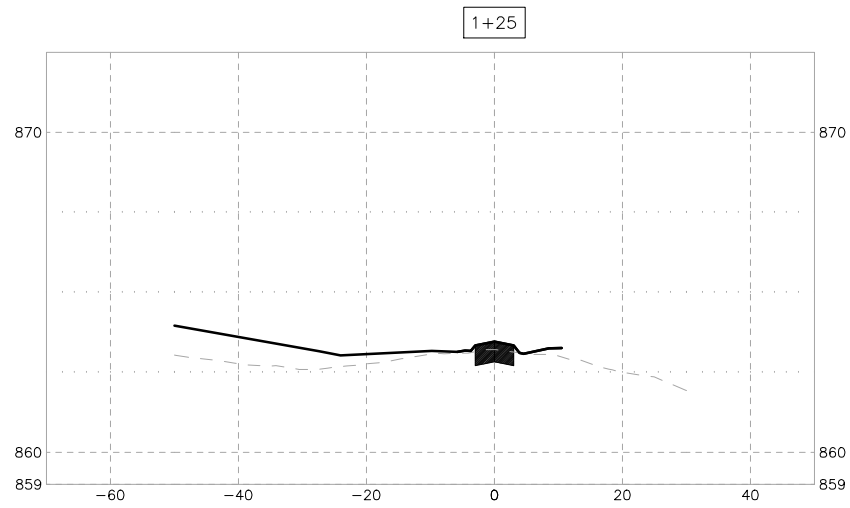
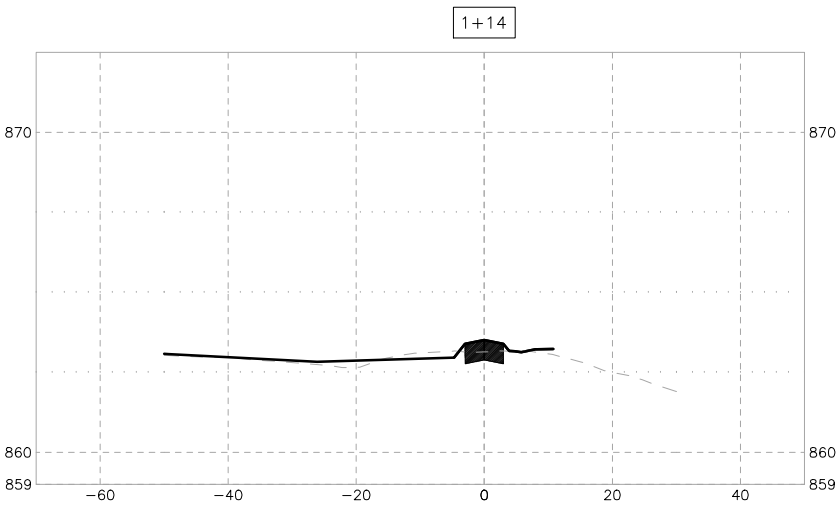
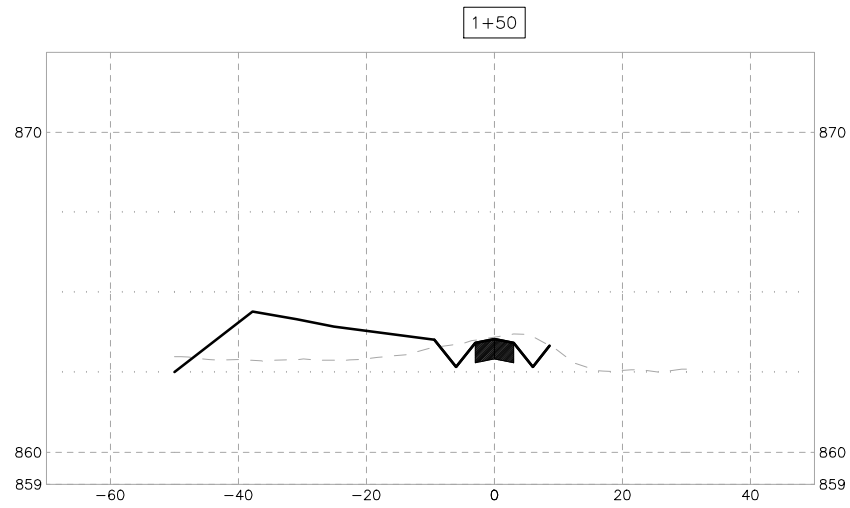
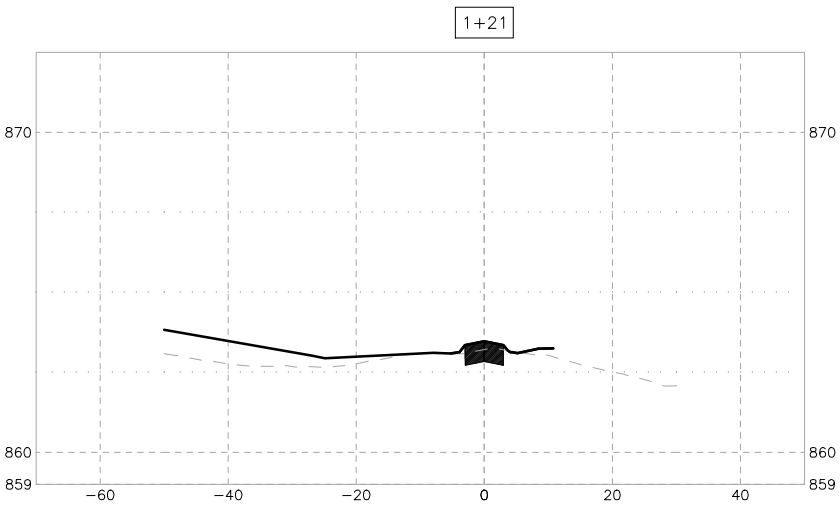
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ACCESS ROAD CROSS SECTIONS

COR INFILTRATION BASIN IMPROVEMENTS
CITY PROJECT NO. 18-09
 CITY OF RAMSEY, MINNESOTA



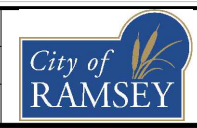
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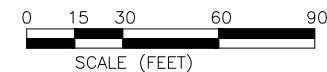
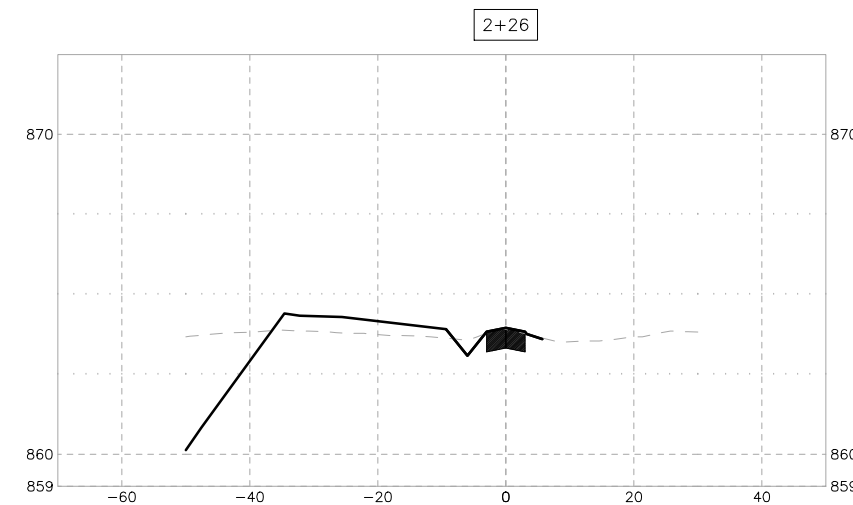
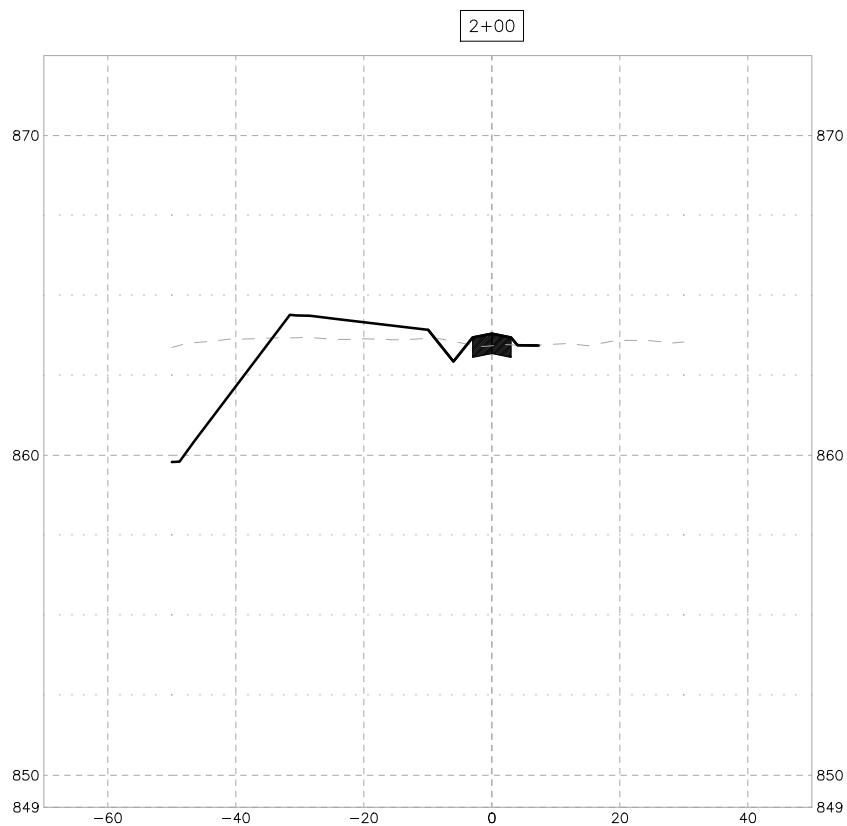
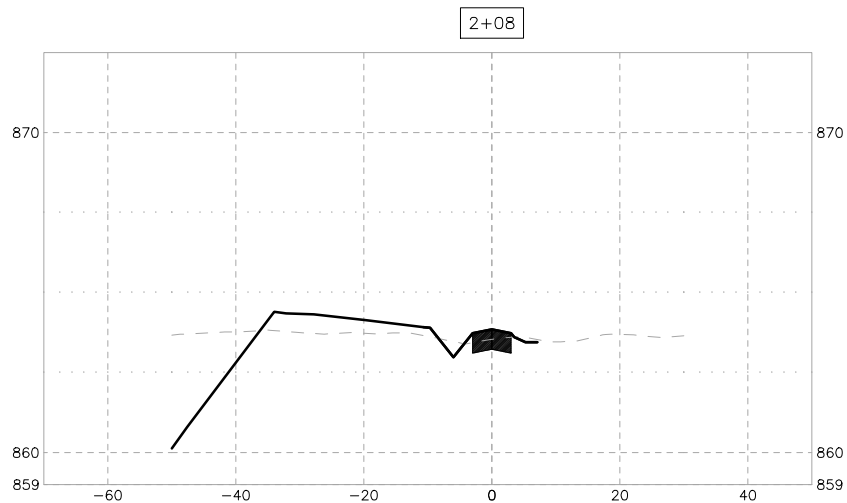
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ACCESS ROAD CROSS SECTIONS

COR INFILTRATION BASIN IMPROVEMENTS
CITY PROJECT NO. 18-09
 CITY OF RAMSEY, MINNESOTA

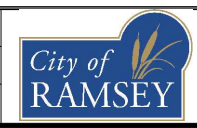


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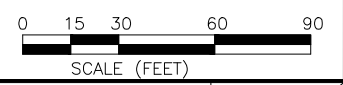
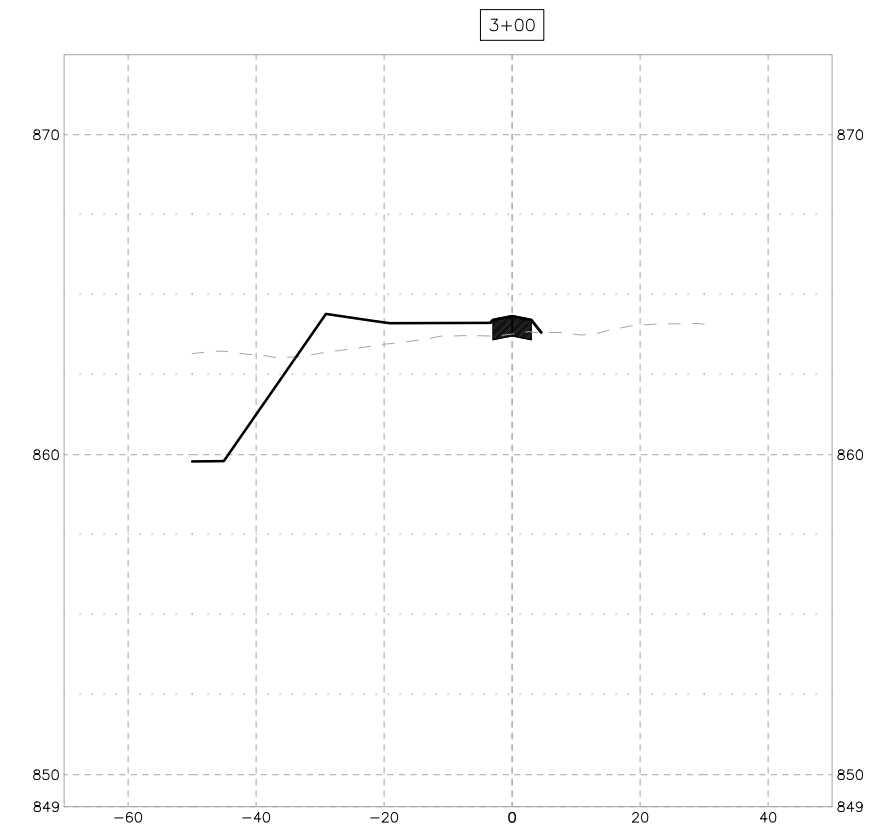
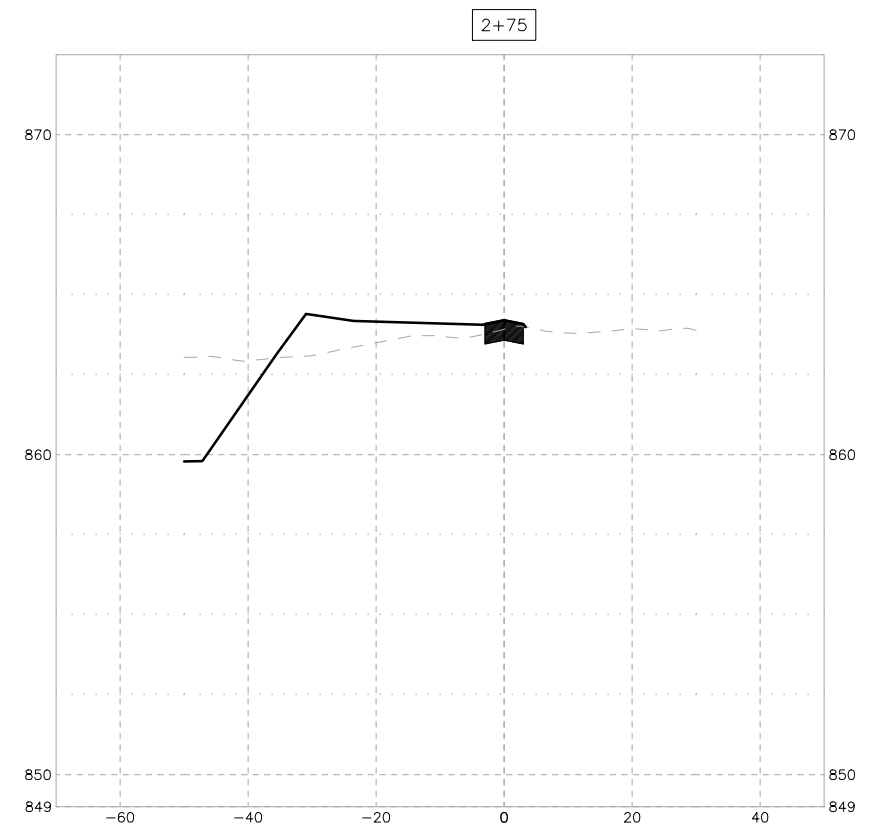
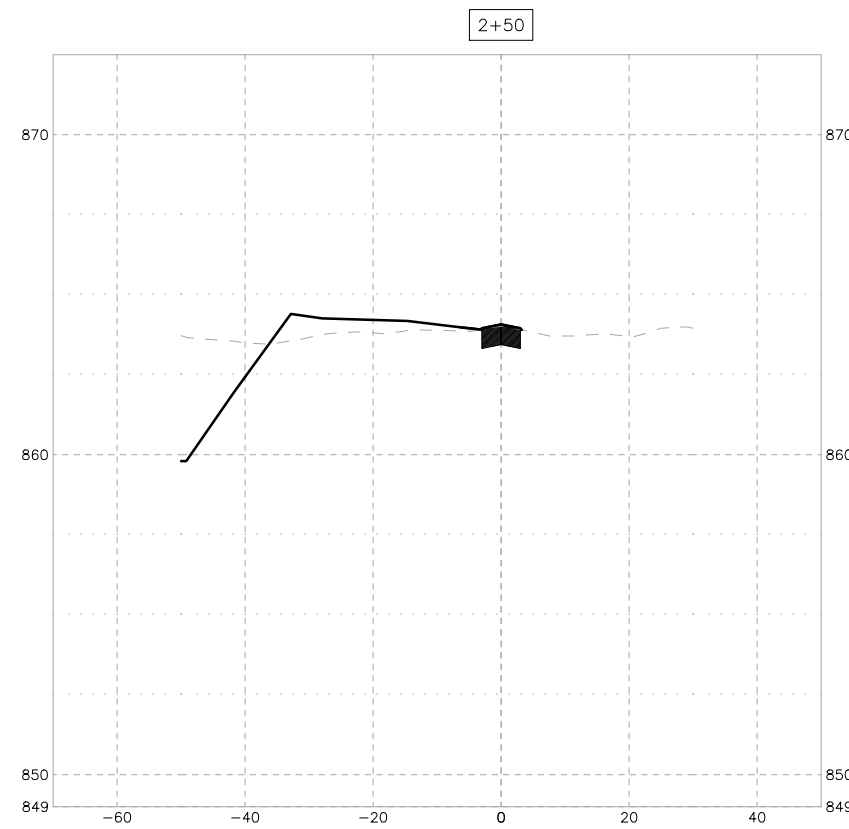
DESIGNED BY: LLL
 DRAWN BY: LLL
 CHECKED BY: BRW
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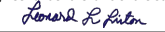
ACCESS ROAD CROSS SECTIONS

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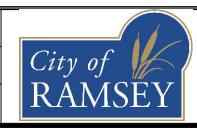


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DESIGNED BY: LLL	DATE: 5/23/19
DRAWN BY: LLL	FILE No.:
CHECKED BY: BRW	18-09

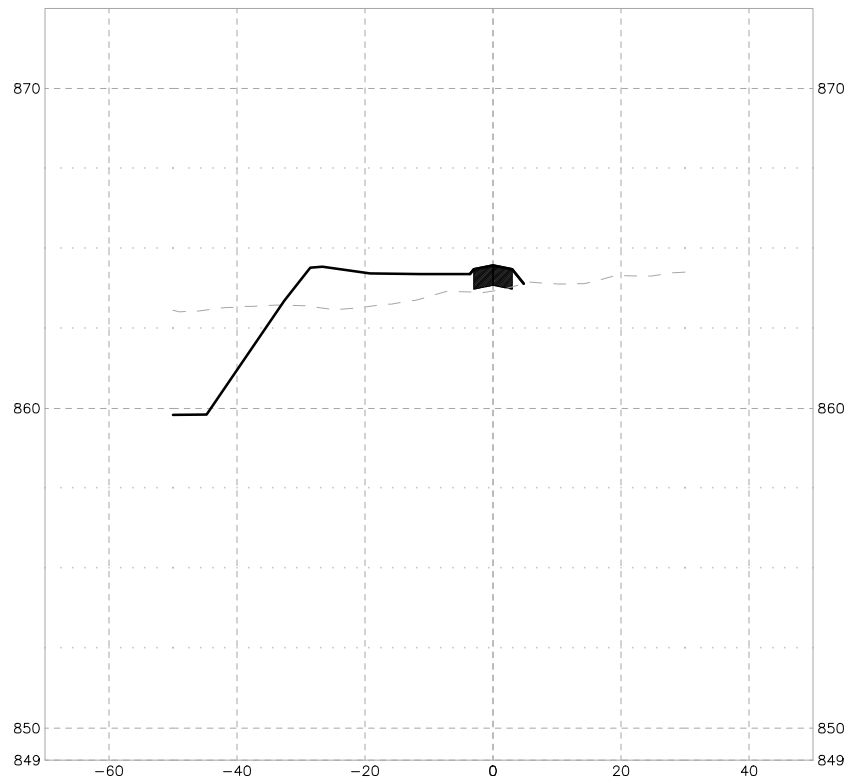


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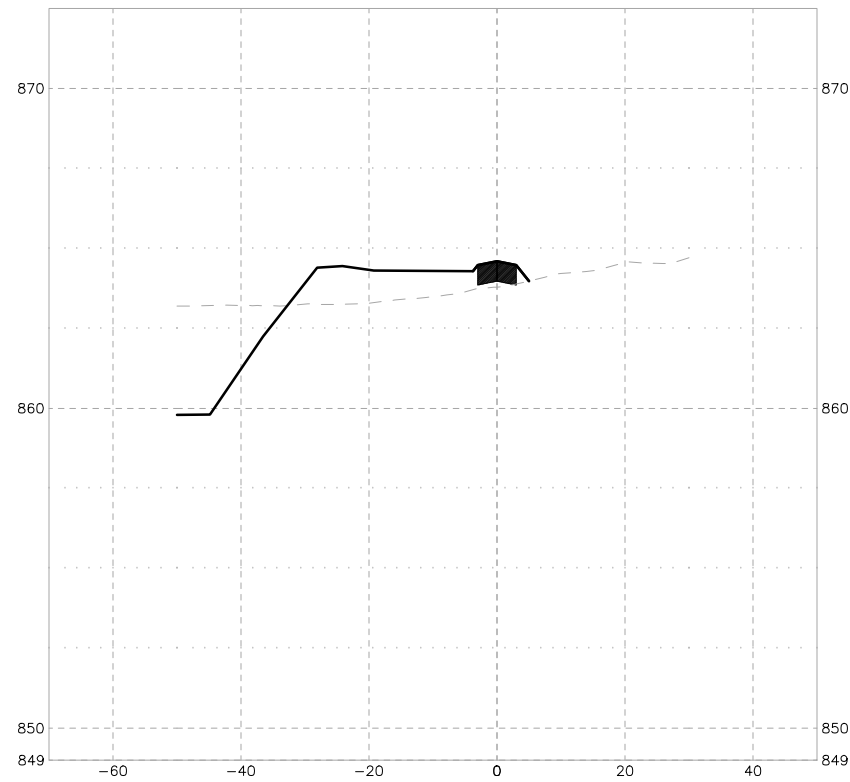
ACCESS ROAD CROSS SECTIONS

COR INFILTRATION BASIN IMPROVEMENTS
CITY PROJECT NO. 18-09
 CITY OF RAMSEY, MINNESOTA

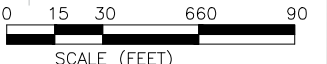
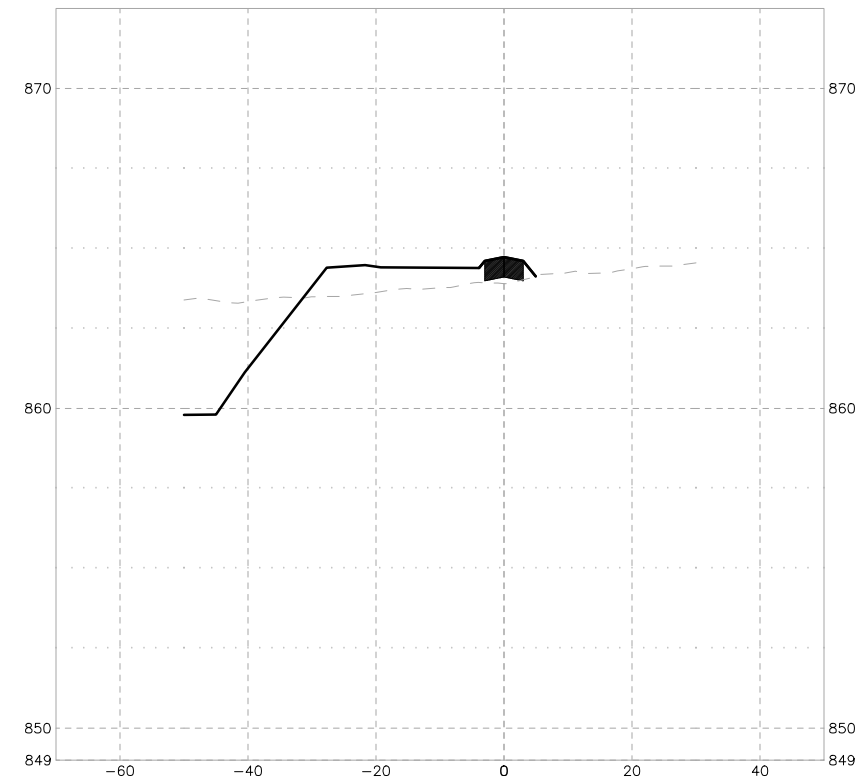
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3+50



3+75



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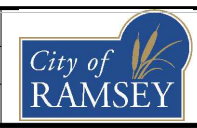
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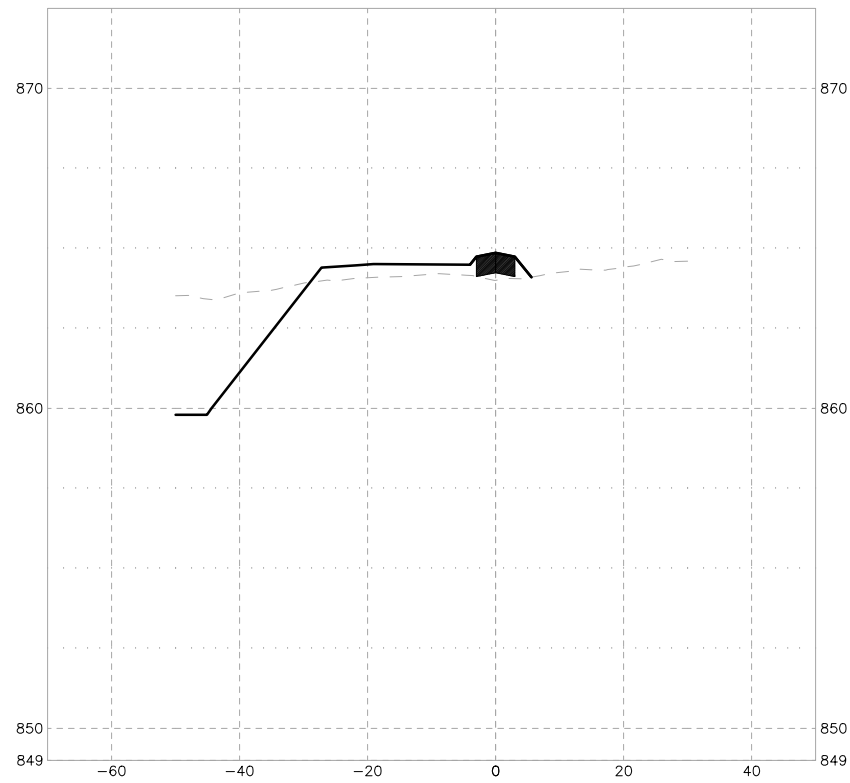


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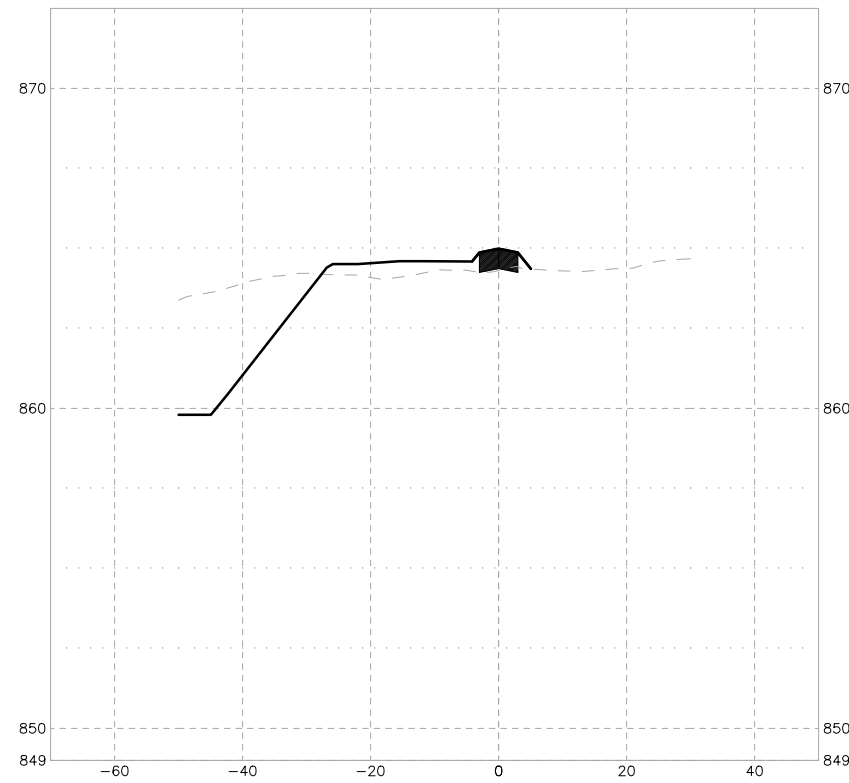
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COR INFILTRATION BASIN IMPROVEMENTS
CITY PROJECT NO. 18-09
 CITY OF RAMSEY, MINNESOTA

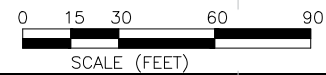
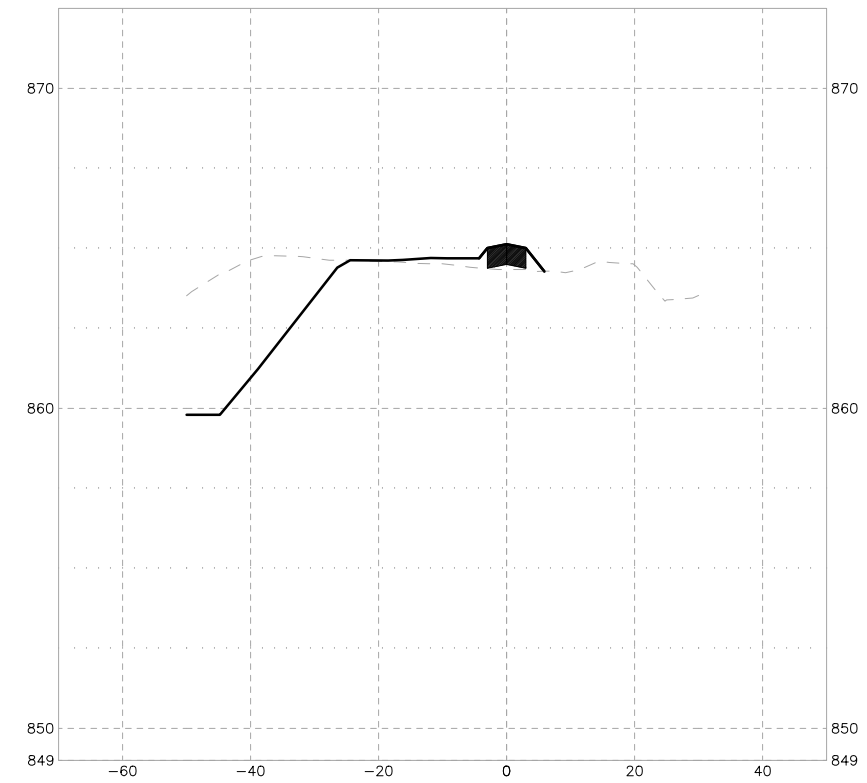
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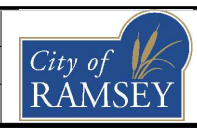
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LEONARD LINTON
 Date 5/23/19 Lic. No. 21112

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 CHECKED BY: BRW

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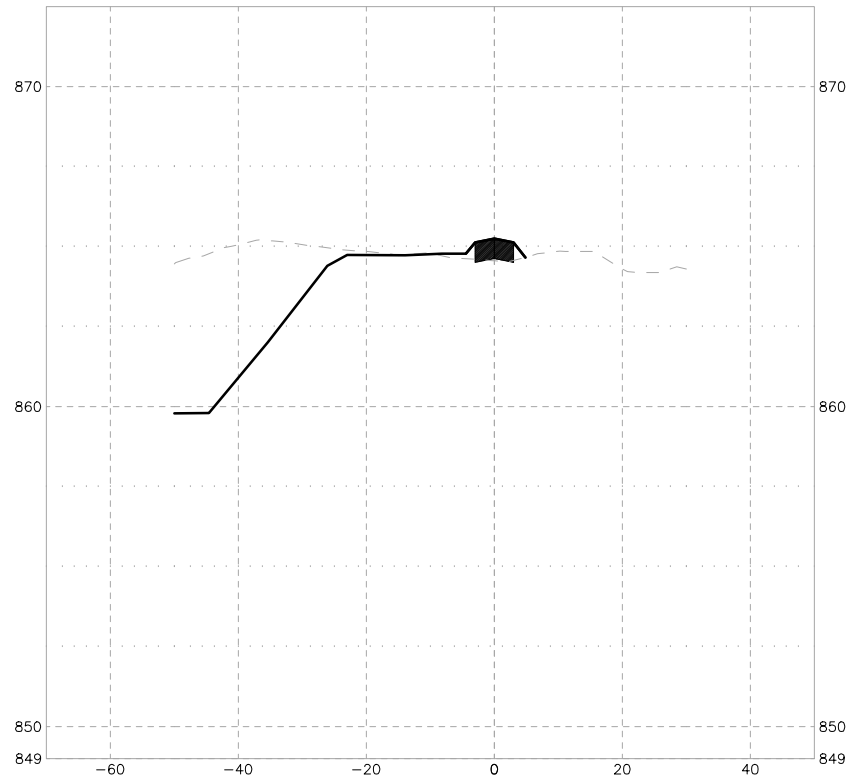


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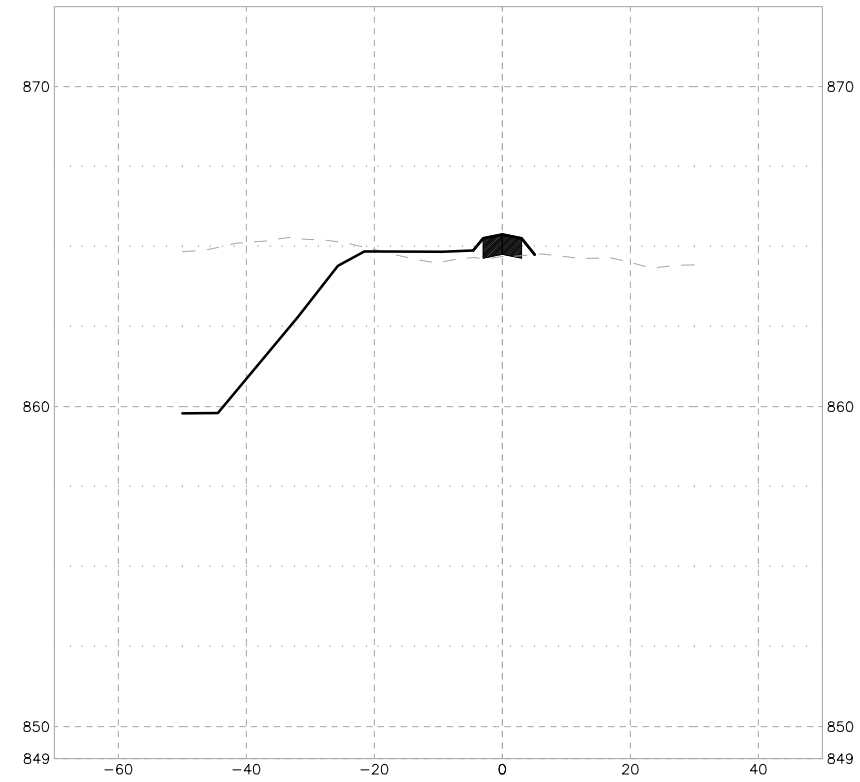
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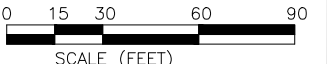
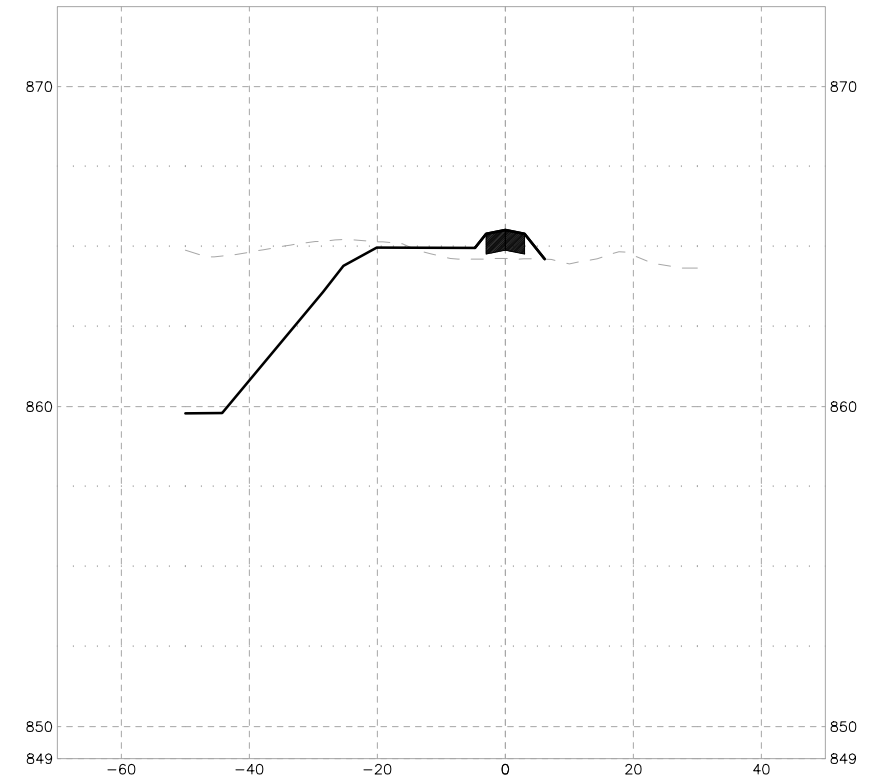
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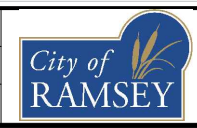
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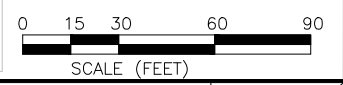
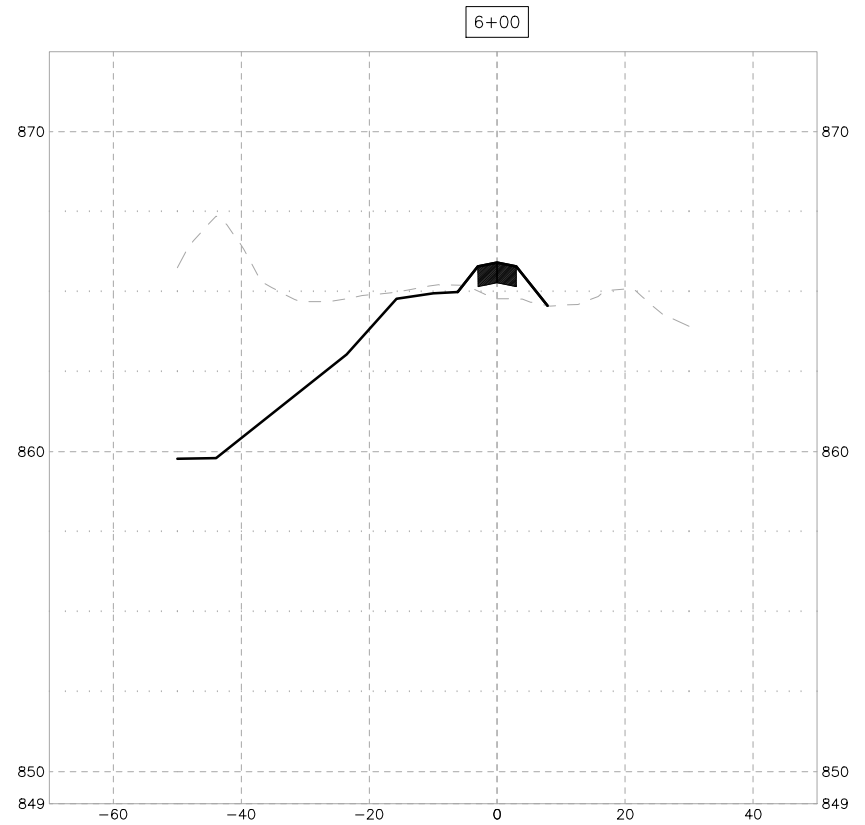
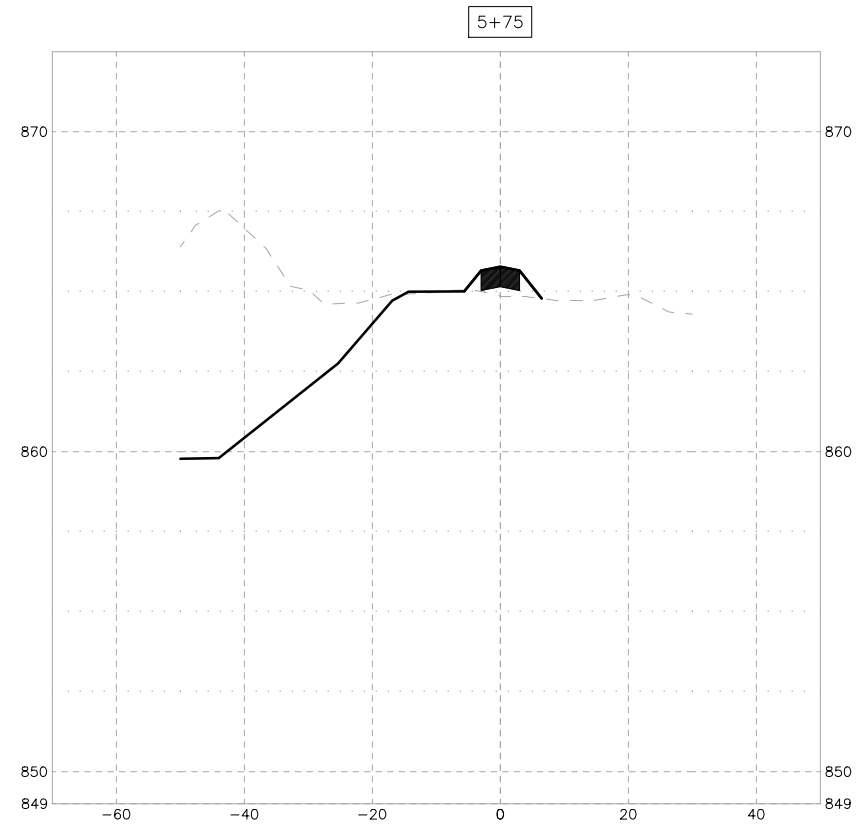
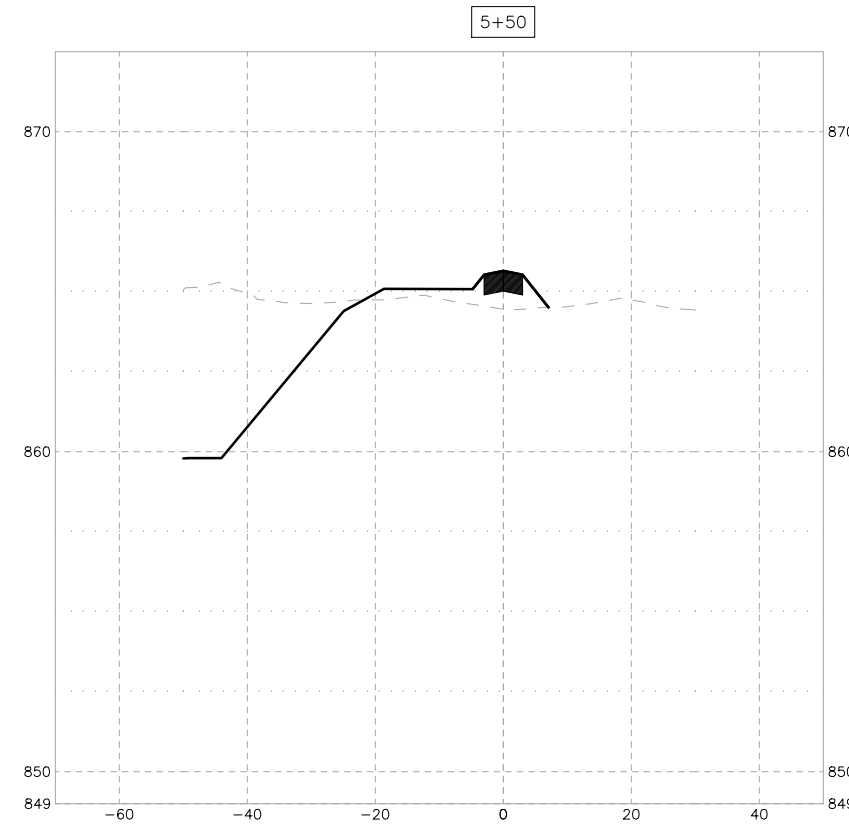
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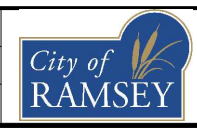
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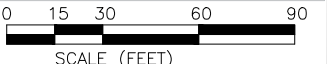
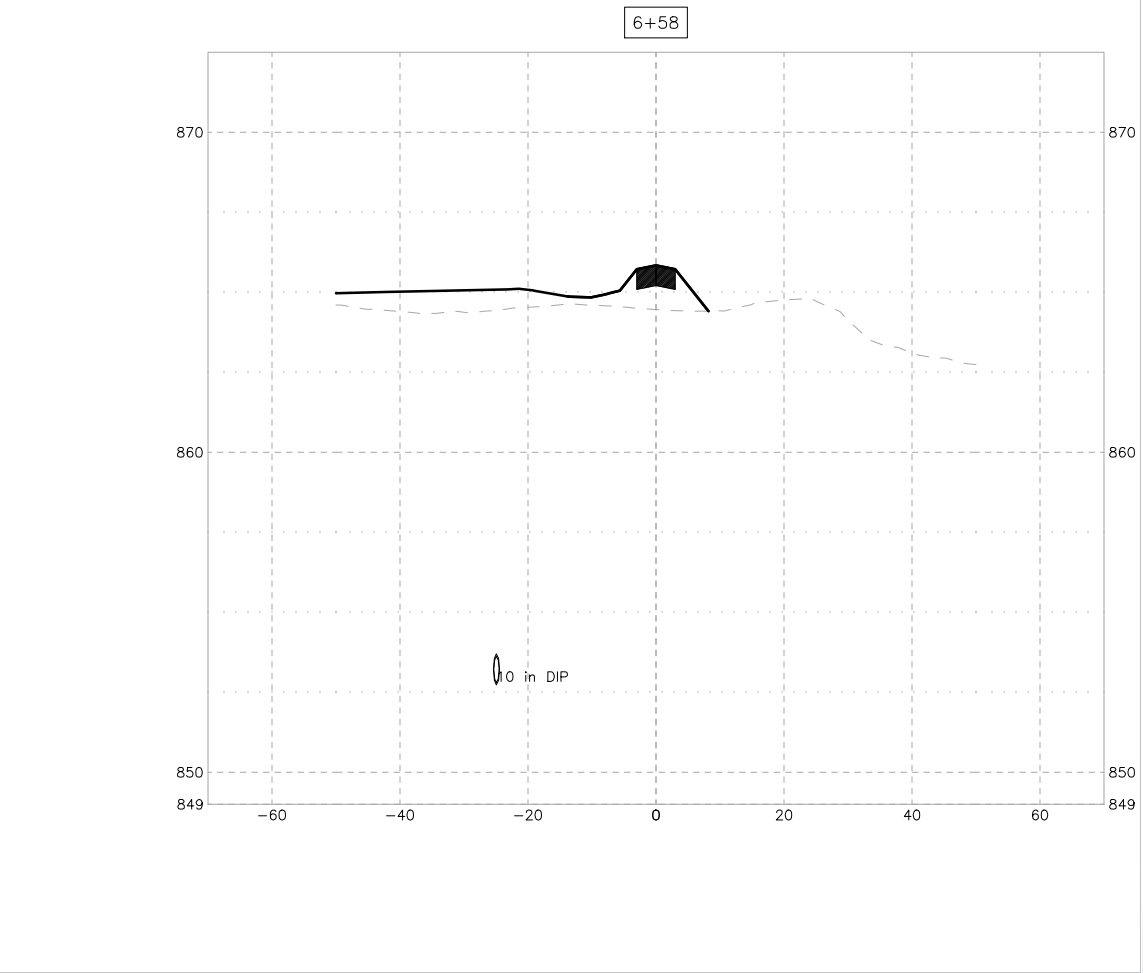
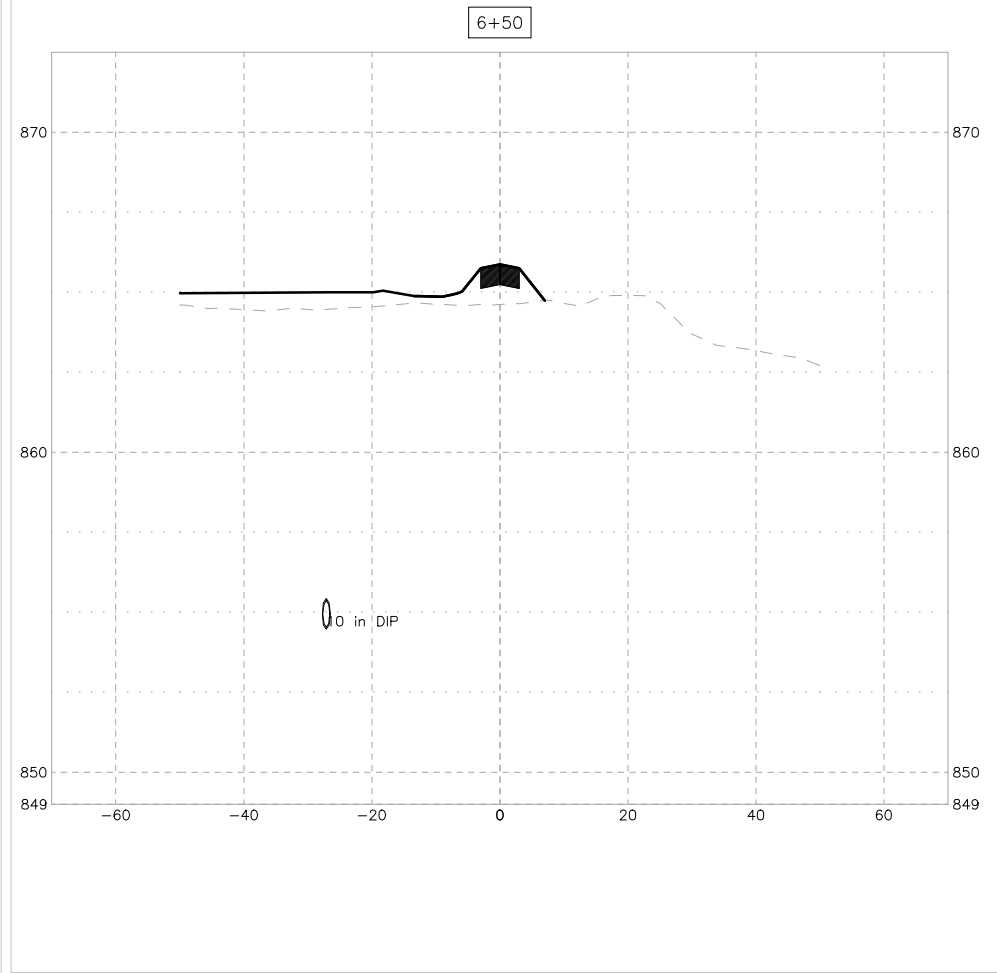
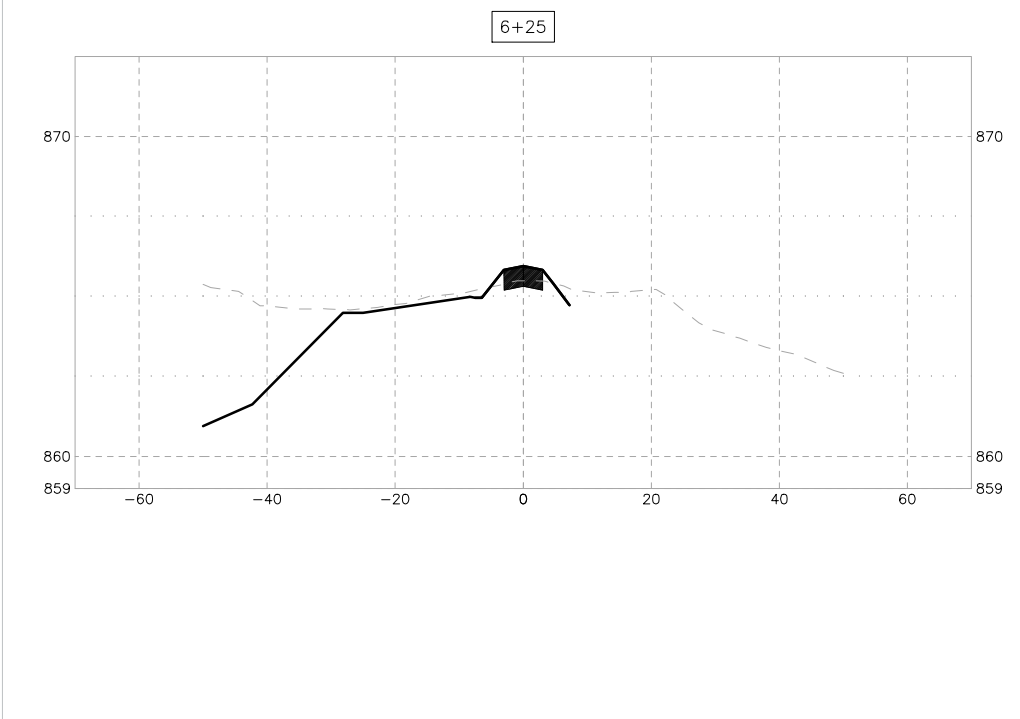
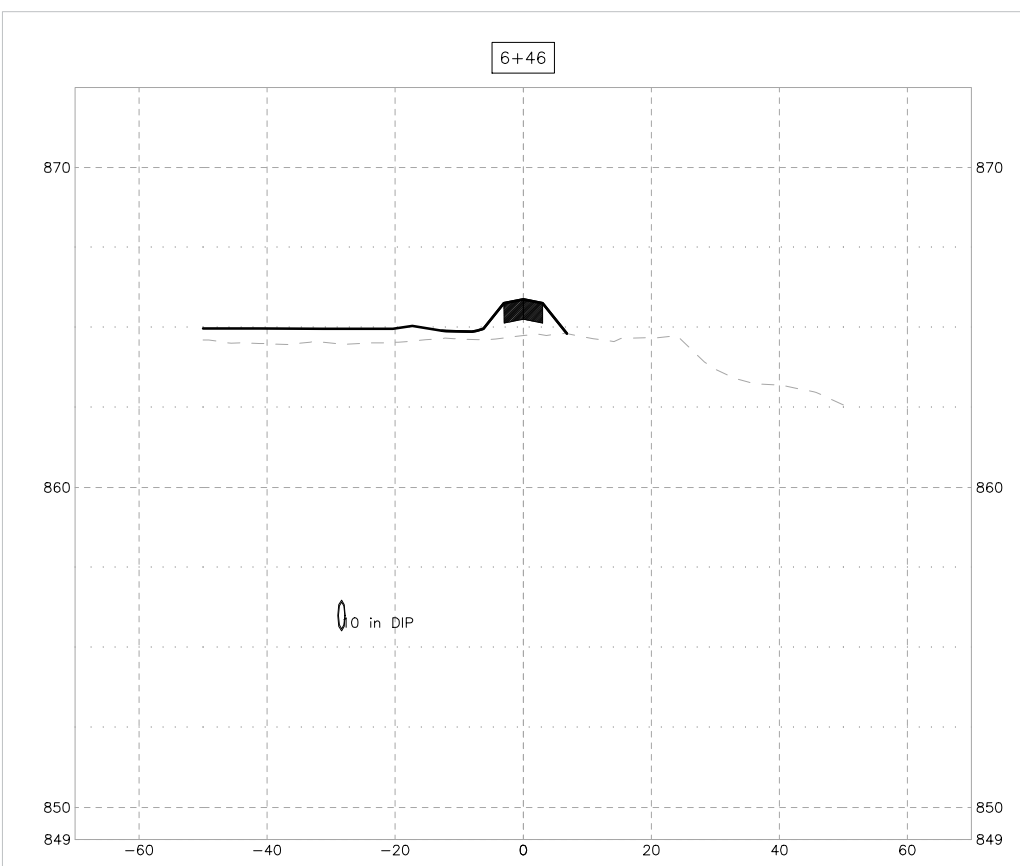
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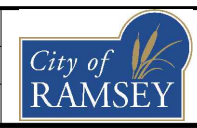
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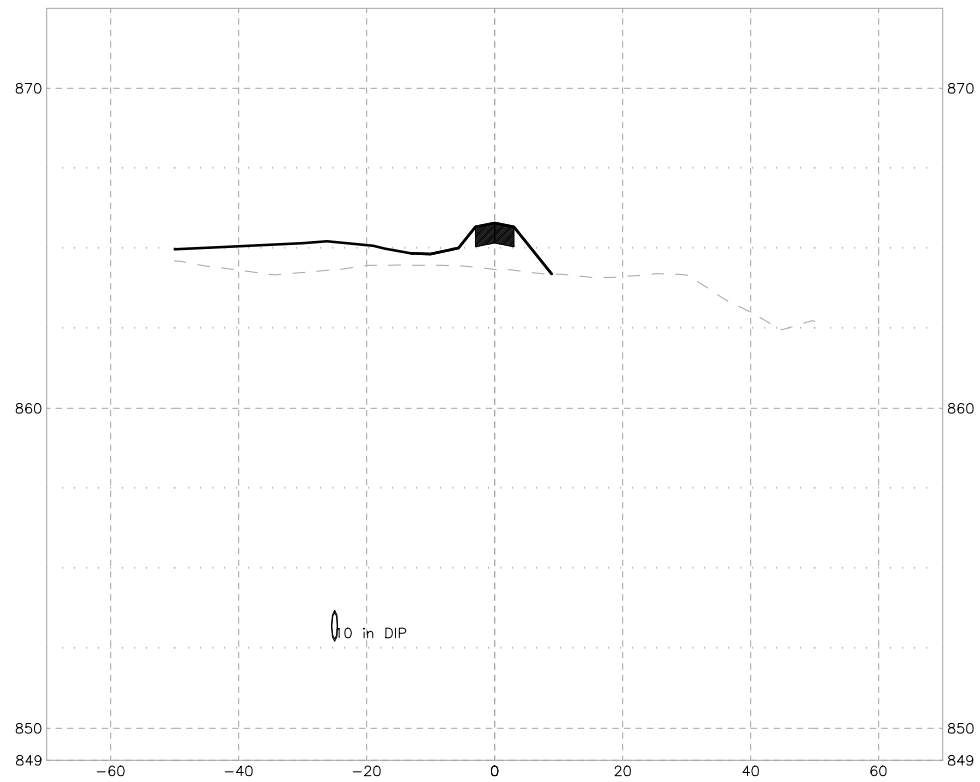


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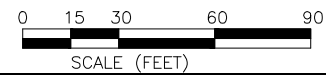
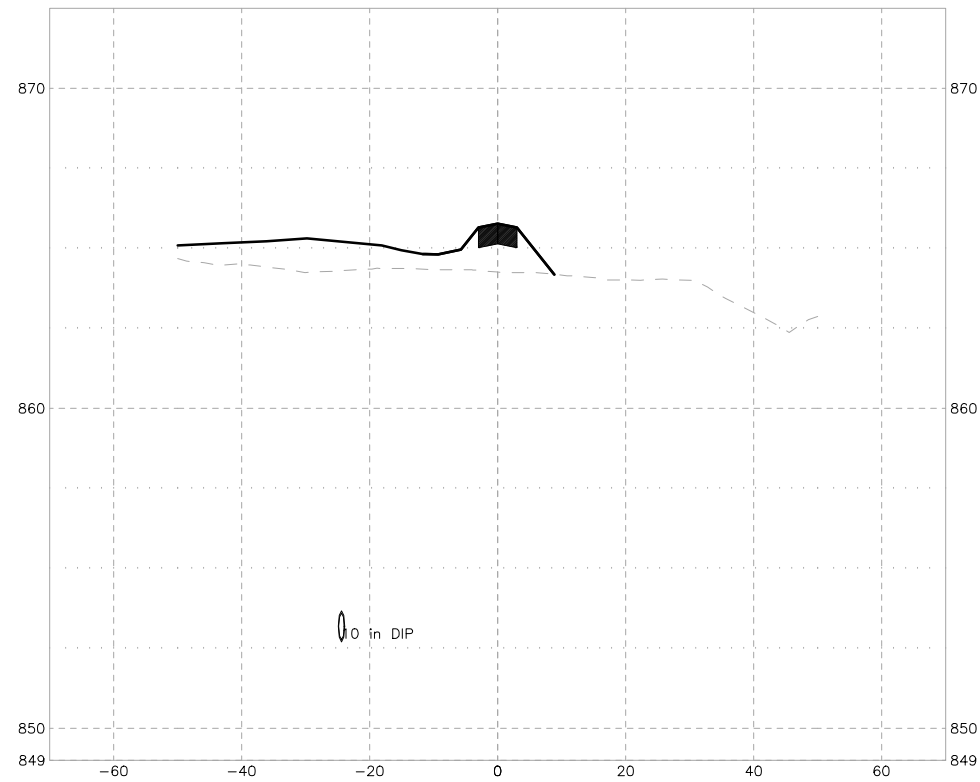
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 CITY OF RAMSEY, MINNESOTA

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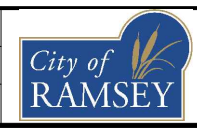
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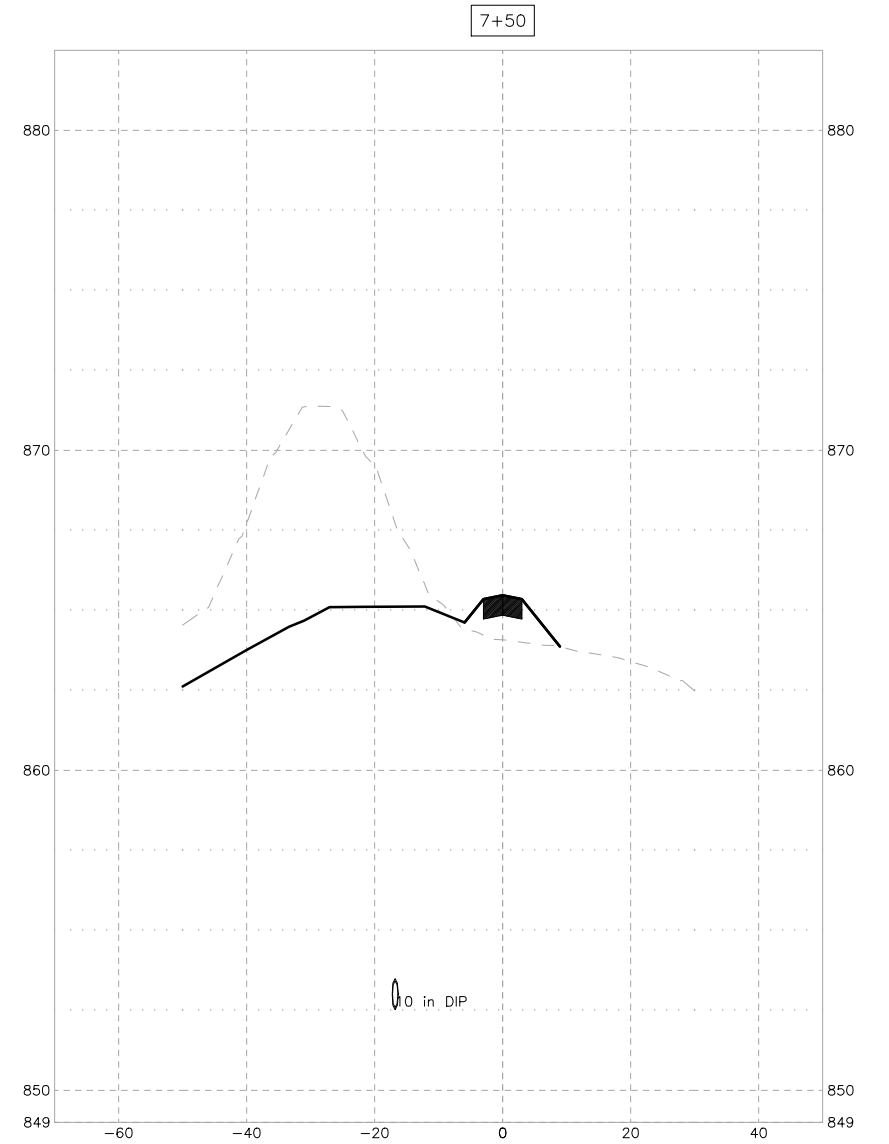
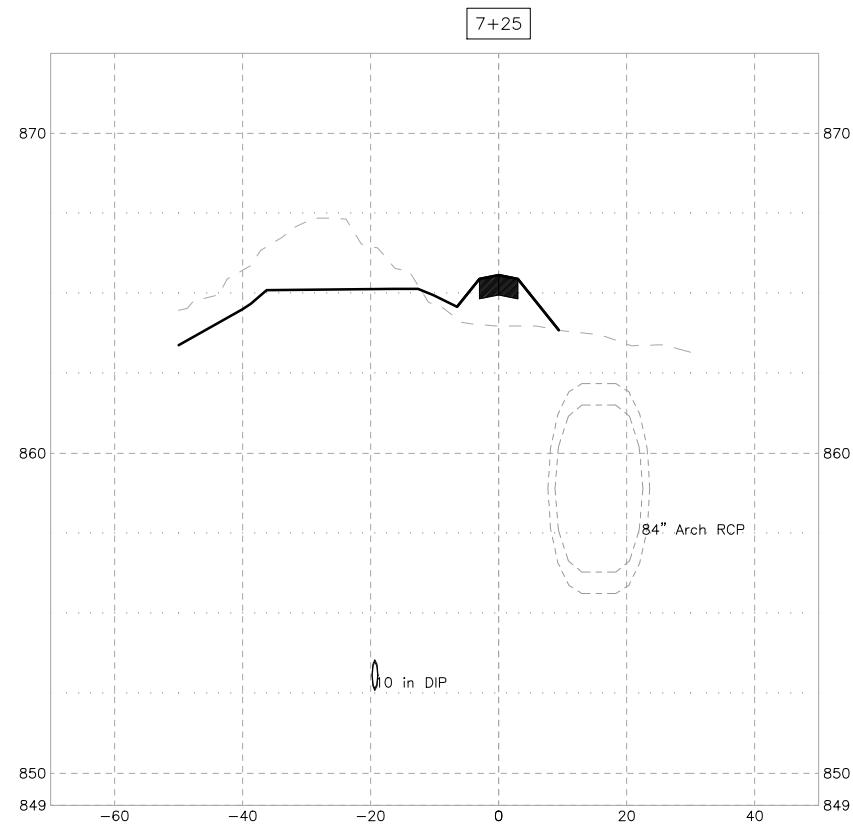
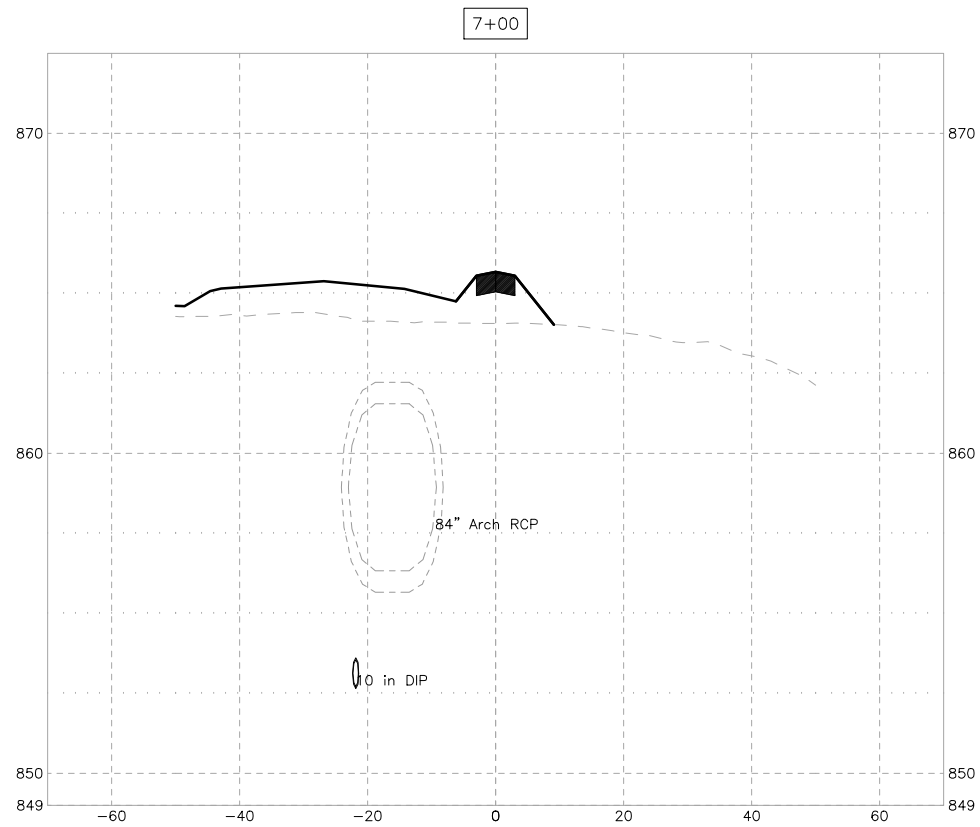
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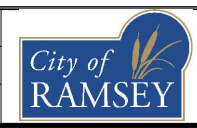
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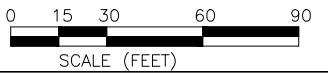
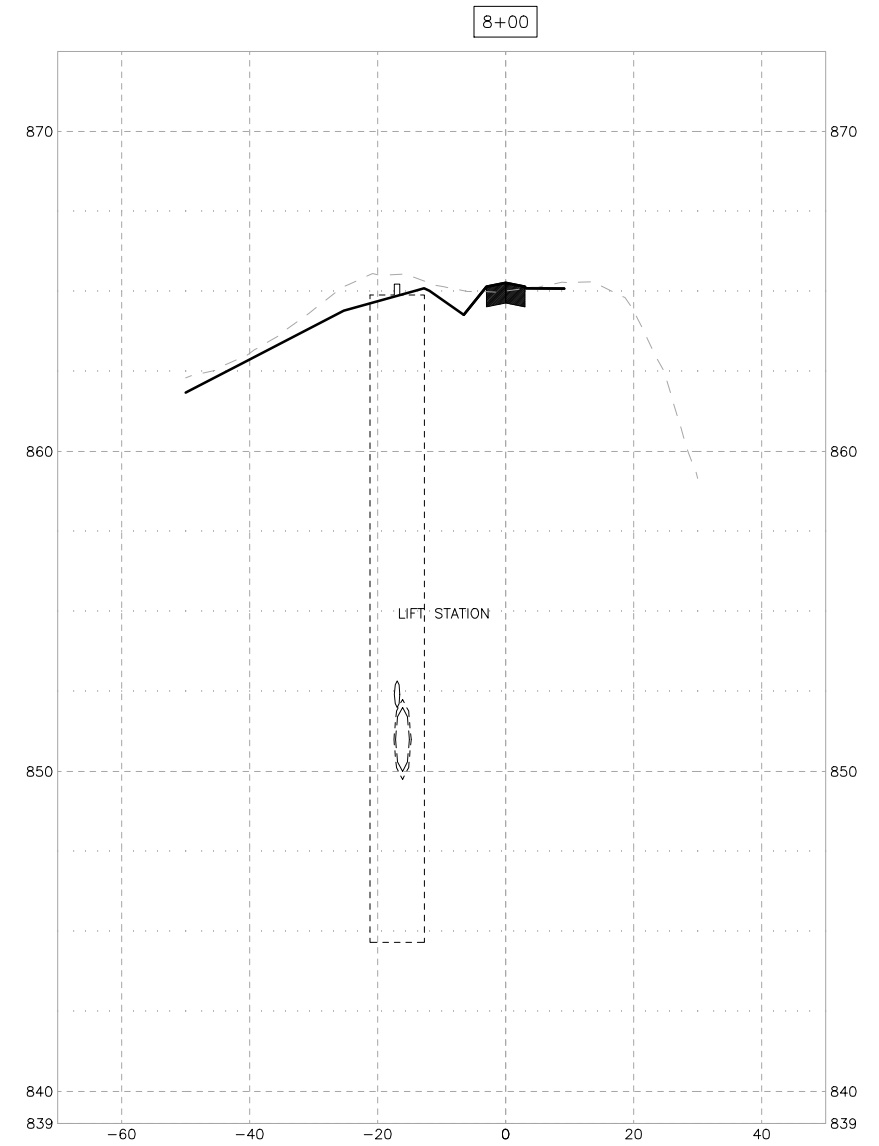
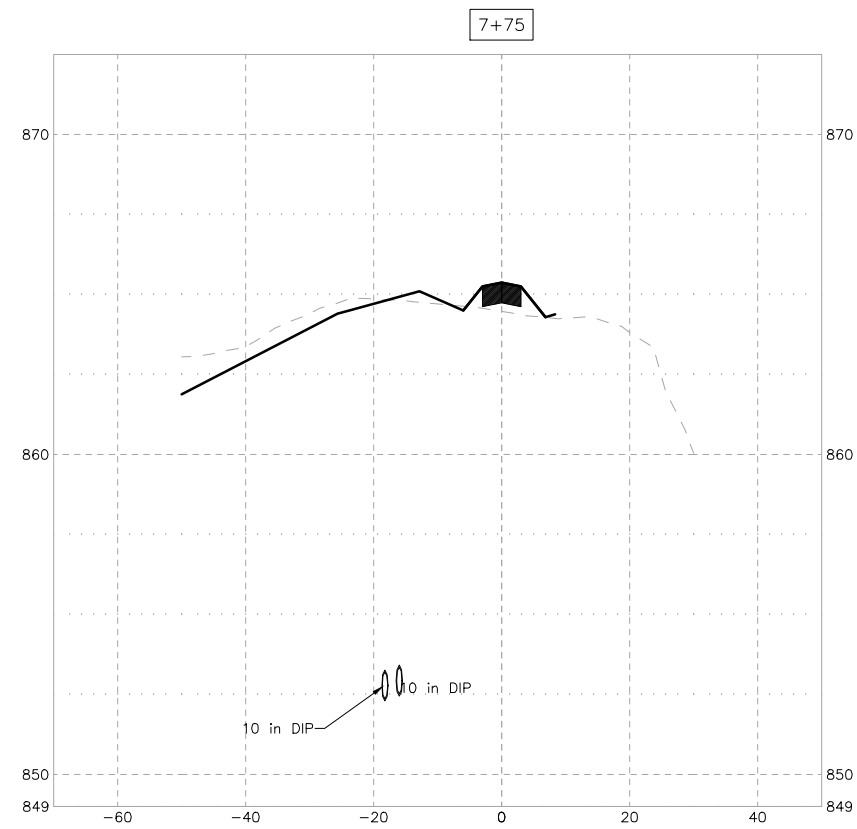
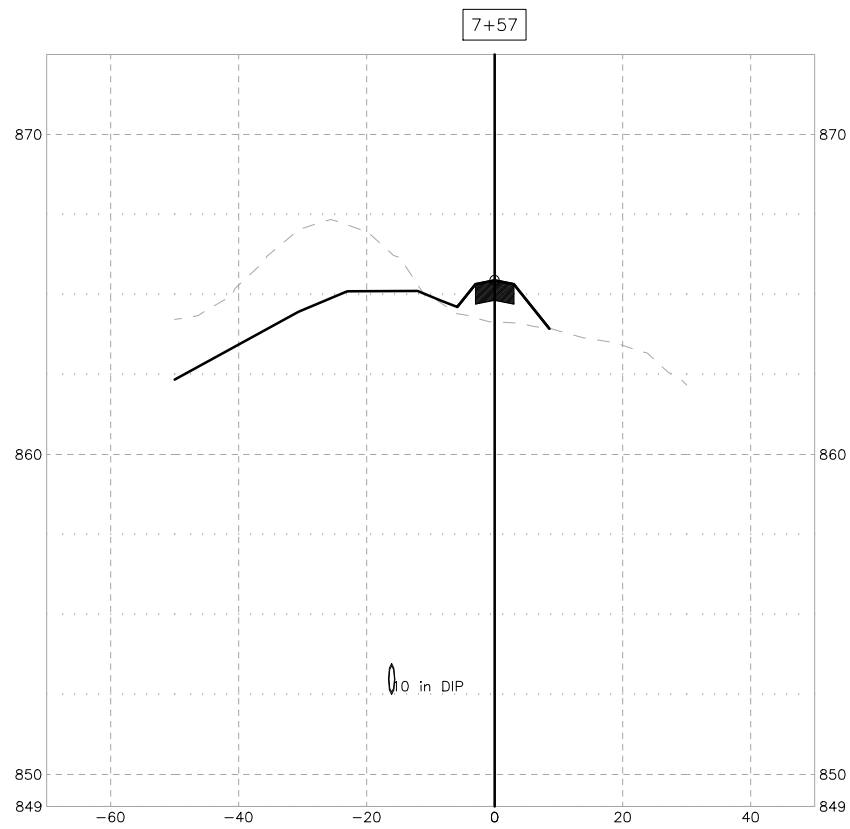
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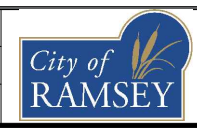


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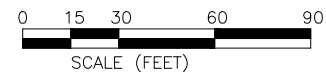
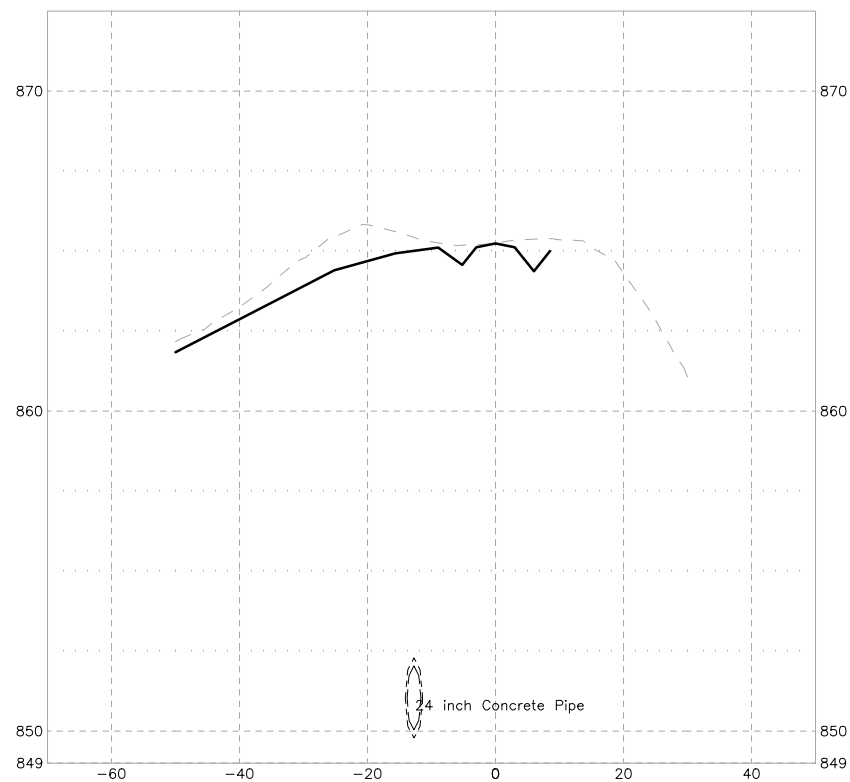


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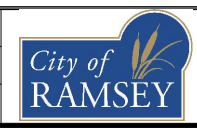
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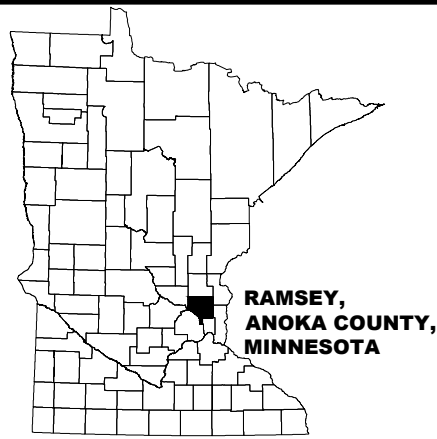
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CITY PROJECT NO. 18-09
CITY OF RAMSEY, MINNESOTA

SHEET 30 OF 37 SHEETS

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

COR INFILTRATION BASIN

CITY OF RAMSEY ANOKA COUNTY, MINNESOTA



DESCRIPTION OF CONSTRUCTION ACTIVITIES AND STORMWATER MANAGEMENT:

Construction activities include; Site Grading, Storm Sewer Construction, Temporary Erosion and Sediment Control, Roadway Construction, and Permanent Stabilization.

Project Description:

This project consists of reconstruction of 0.16 miles of existing bituminous streets with drainage ditches, replacing with bituminous street to the existing width and grade, with the addition of a 2-foot soil correction. The drainage for the existing street flows to drainage swales to the northeast end of the project, eventually reaching the Ford Brook to the north. The construction will include the addition of drain tile to properly drain the subsoil corrections, minor improvements will be made to the drainage ditches to improve the drainage of the site. There is no change to the outfall location of the storm water runoff.

RESPONSIBLE PARTIES:

The Contractor and Owner must apply for coverage under the MPCA's General Storm Water Permit for Construction Activity as required by the National Pollution Discharge Elimination System (NPDES) Phase II program. Coverage under the permit will begin automatically 7 calendar days after the electronic submittal date or after the postmarked date of a complete application. (Longer time frames will apply to areas disturbing 50 acres or discharge within 1 mile of a special water).

	COMPANY	CONTACT PERSON	PHONE
OWNER:	CITY OF RAMSEY	LEONARD LINTON, PE	763-433-9834
SWPPP DESIGNER:	CITY OF RAMSEY	LEONARD LINTON, PE	763-433-9834
CONTRACTOR:			
SITE MANAGER:			
PARTY RESPONSIBLE FOR LONG TERM O&M:	CITY OF RAMSEY	BRUCE WESTBY, PE	763-433-9825

Individuals listed above, including the SWPPP preparer, individual overseeing implementation of, revising and amending the SWPPP, Individuals performing or supervising the installation, maintenance and repair of BMP's must be trained. At least one individual present on the permitted project, or available within 72 hours shall be trained in the applicable job duties. Documentation showing training commensurate with the job duties and responsibilities is required to be included in the SWPPP prior to any work beginning on the site. Copies of the SWPPP preparer information is included in the Project Manual. The Contractor shall provide information for the individual(s) overseeing implementation, supervising installation, maintenance, and repair of BMP's to be included in the Project Manual prior to the start of construction. This information shall be kept up to date until the project NOT is filed.

Documentation shall include:

- Names of trained personnel associated with this project.
- Dates of training, names of instructor(s) and entity providing training.
- Content of training course or workshop including the number of hours trained.
- As an alternative to a, b, and c listed above, a photocopy of the current Erosion and Stormwater Management card issued by the University of Minnesota can be attached to the SWPPP as suitable documentation of training.

DOCUMENTATION RETENTION:

The following documentation will be retained for a period of not less than 3-years from the date of submittal of the NOT.

- The final SWPPP.
- Copies of all stormwater related permits required for the project.
- Records of all inspection and maintenance conducted during construction.
- Copies of all permanent operation and maintenance agreements; including all right-of-way, contracts, covenants and other binding requirements regarding perpetual maintenance.
- All required calculations for design of temporary and permanent BMP's.

IMPLEMENTATION SCHEDULE AND PHASING:

- Furnish & Install perimeter sediment control and inlet protection.
- Removal of existing bituminous street.
- Rough grade site.
- Furnish & install bituminous pavement.
- Add additional temporary BMP's as necessary during construction based on inspection reports.
- Submit Notice of Termination (NOT) to MPCA within 30 days of final stabilization.

FINAL STABILIZATION:

The permittee(s) must ensure final stabilization of the site. The permittee(s) must submit a NOT within 30 days after final stabilization is complete, or another owner/operator (permittee) has assumed control over all areas of the site which have not undergone final stabilization. Final stabilization can be achieved in one of the following ways:

- All soil disturbing activities at the site have been completed and all soils must be stabilized by a uniform perennial vegetative cover with a density of 70 percent over the entire pervious surface area, or other equivalent means necessary to prevent soil failure under erosive conditions and;
 - All drainage ditches, constructed to drain water from the site after construction is complete, must be stabilized to preclude erosion;
 - All temporary synthetic, and structural erosion prevention and sediment control BMP's (such as silt fence) must be removed as part of the site final stabilization; and
 - The permittee(s) must clean out all sediment from conveyances and from temporary sedimentation basins to be used as permanent water quality management basins. Sediment must be stabilized to prevent it from being washed back into the basin, conveyances or drainage ways discharging off-site or to surface waters. The cleanout of permanent basins must be sufficient to return the basin to design capacity.
- Final vegetation cover shall be in the Project Specifications.
- For residential construction only, final stabilization has been achieved when temporary erosion protection and down gradient perimeter control for individual lots has been completed and the residence has been transferred to the homeowner. Additionally, the permittee must distribute the MPCA "Homeowner fact sheet" to the homeowner to inform the homeowner of the need for, and benefits of, final stabilization.

SPECIAL ENVIRONMENTAL CONSIDERATIONS:

Was an environmental review required for this project or any part of a common plan of development or sale that includes all or any portion of this project?	NO
Does any portion of the site have the potential to affect threatened or endangered species?	NO
Does any portion of this site discharge to a Calcareous Fen and the letter of approval from the DNR is located in the Project Manual?	NO
Will any portion of this site potentially affect properties listed on the National Register of Historic Places or a Known or Discovered Archeological site?	NO
Have any Karst features been identified in the project vicinity?	NO
Is compliance with temporary or permanent stormwater management design requirements infeasible for this project?	NO

POLLUTION PREVENTION MANAGEMENT MEASURES:

The permittee(s) shall implement the following pollution prevention management measures on the site:

- Solid waste: collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris and other wastes must be disposed of properly and must comply with MPCA disposal regulations.
- Hazardous materials: oil, gasoline, paint and any hazardous substances must be properly stored, including secondary containment, to prevent spills, leaks or other discharge. Restricted access to storage areas must be provided to prevent vandalism. Storage and disposal of hazardous waste must be in compliance with MPCA regulations.
- External washing of trucks and other construction vehicles must be limited to a defined area of the site. Runoff must be contained and waste properly disposed of. No engine degreasing is allowed on site.

GENERAL STORMWATER DISCHARGE REQUIREMENTS:

All requirements listed in Part 15 of the permit for the design of permanent stormwater treatment system and discharge have been included in the preparation of this SWPPP. These include but are not limited to:

- The expected amount, frequency, intensity and duration of precipitation.
- The nature of stormwater runoff and run-on at the site.
- Peak flow rates and stormwater volumes to minimize erosion at outlets and downstream channel and stream bank erosion.
- The range of soil particle sizes expected to be present on the site.

RECEIVING WATERS:

Receiving waters, including surface water, wetlands, Public Waters, and stormwater ponds are identified on the USGS 7.5min quad map within 1 mile of the project boundary. Receiving waters that are impaired, the impairment and WLA are listed as follows. All specific BMP's relative to construction activities listed in this permit for special and impaired waters have been incorporated into this plan. All specific BMP's listed in approved TMDLs and those BMP's listed for construction related waste load allocations have also been incorporated.

NAME OF WATER BODY	TYPE (DITCH, POND, WETLAND, LAKE, ETC.)	APPENDIX A SPECIAL WATER?	FLOWS TO IMPAIRED WATER WITHIN 1 MILE?	USEPA APPROVED TMDL?
MISSISSIPPI RIVER	RIVER	YES	YES	YES

IMPAIRMENTS: NOT FOR AQUATIC CONSUMPTION OF AQUATIC RECREATION

PROJECT AREAS:

Total project size (disturbed area) =	15.7 acres
Existing area of impervious surface =	0.00 acres
Post construction area of impervious surface =	0.25 acres
New impervious surface area created =	0.25 acres

Planned construction start date: June 2019
Planned construction completion date: October 2019

PROJECT LOCATION:

County: ANOKA Township: 32 Range: 25 Section: 28 Latitude: 45 13 47.70 Longitude: -93 27 02.79

PERMANENT STORMWATER MANAGEMENT SYSTEM:

Type of storm water management used if more than 1 acre of new impervious surface is created:

- Wet Sedimentation Pond
- Infiltration / Filtration
- Regional Pond
- Permanent Stormwater Management Not Required

LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN:

DESCRIPTION	LOCATION
TEMPORARY EROSION CONTROL MEASURES	SHEETS No. 5 - 8
FINAL STABILIZATION	SHEETS No. 5 - 8, 17
STORM SEWER TABULATION	SHEETS No. 16
EROSION AND SEDIMENT CONTROL DETAILS	SHEETS No. 37

EROSION AND SEDIMENT CONTROL QUANTITIES:

DESCRIPTION	QUANTITY
SILT FENCE TYPE MS	9,100 LF
INLET PROTECTION - MANHOLE	23 EA.

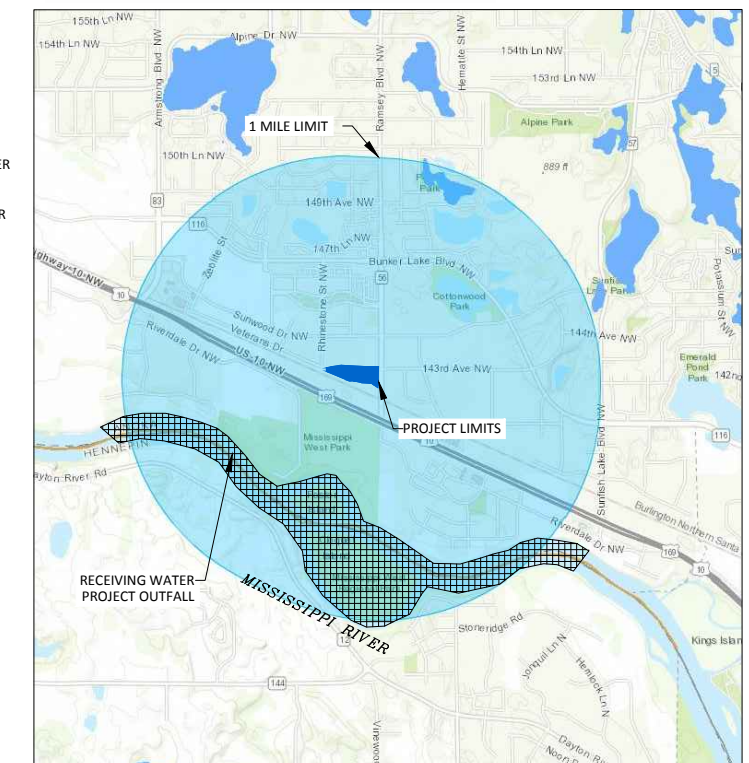
CERTIFICATION:

UNIVERSITY OF MINNESOTA

Leonard Linton

Design of Construction SWPPP (May 31 2019)

LEGEND	
	PROJECT LIMITS
	1 MILE LIMIT
	RECEIVING WATER
	IMPAIRED WATER



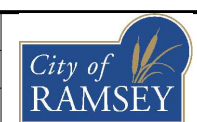
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SWPPP 1

COR INFILTRATION BASIN IMPROVEMENTS
CITY PROJECT NO. 18-09
CITY OF RAMSEY, MINNESOTA

SHEET
31
OF
37
SHEETS

SEQUENCE OF CONSTRUCTION:

Construction shall proceed in the following sequence:

1. Contractor shall schedule and conduct a pre-construction meeting with the City.
2. Contractor shall secure all necessary permits and licenses.
3. Furnish & install erosion control measures.
4. Maintain erosion control measures, i.e. silt fence, inlet protection.
5. Remove existing bituminous pavement and base.
6. Remove undesirable subcut material.
7. Prepare subbase, finish and install geotextile fabric, select granular base material, and drain tile.
8. Furnish and install class 5 aggregate base, grade and compact aggregate.
9. Furnish & install base course of bituminous pavement
10. Grade and compact drainage ditches to final grades, install restoration per plan.
11. Furnish & install wear course of bituminous pavement.
12. Remove erosion control after vegetation is established.

ADDITIONAL STORMWATER POLLUTION PREVENTION, GRADING PLAN, AND SCHEDULE NOTES:

1. All slopes to be 1:4 unless approved by the city engineer.
2. Below grade structures shall be protected and meet drainage requirements per the city engineer.
3. Construction operation hours are from 7:00 a.m. - 10:00 p.m. Monday through Saturday.
4. Call Gopher State One Call for utility locations prior to any work at 1-800-252-1166.
5. Permittee may need to modify SWPPP if the general objectives of controlling pollutants is not being met.
6. Operator shall implement these and any other BMP's that may be required to meet the general permit requirements.
7. Site is not in karst area or pollution or remediation site.
8. Silt fence to be installed downhill from any grading activity.
9. If tracking onto adjacent streets occurs a street sweeper shall be used to clean streets within 8 hours or as directed by the engineer.
10. Dust control may be necessary during rough grading. No grading can take place if wind speed exceeds 25 mph.
11. Solid waste shall be collected and disposed of properly and must comply with MPCA disposal requirements.
12. Hazardous materials shall be stored properly to prevent spills and vandalism.
13. No engine degreasing is allowed on site. External washing of vehicles shall be limited to a defined area (bone yard) on site.
14. Permittee(s) shall adhere to all SWPPP specifications on the plan and other MPCA permit requirements.

EROSION PREVENTION PRACTICES:

1. The permittee(s) must plan for and implement appropriate construction phasing, vegetative buffer strips, horizontal slope grading, and other construction practices that minimize erosion, so that the inspection and maintenance requirements are complied with. The location of areas not to be disturbed must be delineated (e.g. with flags, stakes, signs, silt fence, etc.) on the development site before work begins.
2. All exposed soil areas must be stabilized as soon as practical, but in no case later than 7 days after the construction area has temporarily or permanently ceased. These areas include constructed stormwater management pond side slopes, and any exposed soil areas with a positive slope to a stormwater conveyance system, such as a curb and gutter system, storm sewer inlet, temporary or permanent drainage ditch or other natural or man made systems that discharge to a surface water.
3. The normal wetted perimeter of any temporary or permanent drainage ditch that drains water from a construction site, or diverts water around a site, must be stabilized within 200 lineal feet from the property edge, or from the point of discharge to any surface water. Stabilization must be completed within 24 hours of connecting to a surface water.
4. Pipe outlets must be provided with temporary or permanent energy dissipation within 24 hours of connection to a surface water.
5. All disturbed areas, except roadways, building areas, parking areas, islands and sidewalk, shall be restored with minimum 4 inches topsoil, seeded and mulched within 7 days of completion of site grading. Seeding shall be in accordance with MnDOT Specification 2575. Where side slopes exceed or equal 1:3 and running slope is greater than 1:50, a polypropylene netting or wood fiber blanket shall be provided and staked over the mulched area. Seed and mulch types and applications rates are per plan and specification.
6. Refer to restoration plan for areas to be seeded or sodded for erosion control.

DEWATERING AND BASIN DRAINING:

1. Dewatering or basin draining (e.g. pumped discharges, trench/ditch cuts for drainage) related to the construction activity that may have turbid or sediment laden discharge water must be discharged to a temporary or permanent sedimentation basin on the project site whenever possible. If the water cannot be discharged to a sedimentation basin prior to entering the surface water, it must be treated with the appropriate BMP's, such that the discharge does not adversely affect the receiving water or downstream landowners. The permittee(s) must ensure that discharge points are adequately protected from erosion and scour. The discharge must be dispersed over natural rock rip rap, sand bags, plastic sheeting or other accepted energy dissipation measures. Adequate sedimentation control measures are required for discharge water that contains suspended solids.
2. All water from dewatering or basin draining activities must be discharged in a manner that does not cause nuisance conditions, erosion in receiving channels or on downslope properties, or inundation in wetlands causing significant adverse impact to the wetland.

SEDIMENT CONTROL PRACTICES:

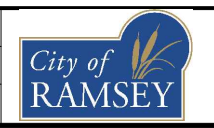
1. Sediment control practices must minimize sediment from entering surface waters, including curb and gutter systems and storm sewer inlets.
 - a. Temporary or permanent drainage ditches and sediment basins that are designed as part of a treatment system (e.g. ditches with rock check dams) require sediment control practices only as appropriate for site conditions.
 - b. If the down gradient treatment system is overloaded, additional upgradient sediment control practices must be installed to eliminate the overloading, and the SWPPP must be amended to identify these additional practices.
 - c. In order to maintain sheet flow and minimize rills and/or gullies, there shall be no unbroken slope length of greater than 75 feet for slopes with a grade of 1:3 or steeper.
2. Sediment control practices must be established on all down gradient perimeters before any upgradient land disturbing activities begin. These practices shall remain in place until final stabilization has been established.
3. The timing of the installation of sediment control practices may be adjusted to accommodate short-term activities such as clearing or grubbing, or passage of vehicles. Any short-term activity must be completed as quickly as possible and the sediment control practices must be installed immediately after the activity is completed. However, sediment control practices must be installed before the next precipitation event even if the activity is not complete.
4. All storm drain inlets must be protected by appropriate BMP's during construction until all sources with potential for discharging to the inlet have been stabilized.
5. Temporary soil stockpiles must have silt fence or other effective sediment controls, and cannot be placed in surface waters, including stormwater conveyances such as curb and gutter systems, or conduits and ditches.
6. Stockpile areas which remain on the site for more than seven days shall be seeded, mulched, and surrounded by silt fence.
7. Vehicle tracking of sediment from the construction site must be minimized by BMP's such as stone pads, concrete or steel wash racks, or equivalent systems. Street sweeping must be used if such BMPs are not adequate to prevent sediment from being tracked onto the street.
8. The permittee must install temporary sedimentation basins as required.

INSPECTIONS AND MAINTENANCE:

1. The permittee(s) (either the owner or operator, whoever is identified in the SWPPP) must routinely inspect the construction site once every seven (7) days during active construction and within 24 hours after a rainfall event greater than 0.5-inches in 24 hours. Following an inspection that occurs within 24 hours after a rainfall event, the next inspection must be conducted within 7 days.
2. All inspections and maintenance conducted during construction must be recorded in writing and these records must be retained with the SWPPP. Records of each inspection and maintenance activity shall include:
 - a. Date and time of inspections;
 - b. Name of persons conducting inspections;
 - c. Accurate findings of inspections, including the specific location where corrective actions are needed;
 - d. Corrective actions taken (including dates, times, and party completing maintenance activities);
 - e. Date of all rainfall events greater than ½ inches in 24 hours, and the amount of rainfall for each event. Permittee(s) must obtain rainfall amounts by either a properly maintained rain gauge installed onsite, a weather station that is within one (1) mile of your location, or a weather reporting system that provides site specific rainfall data from radar summaries;
 - f. If permittee(s) observe a discharge (i.e., color, odor, settled or suspended solids, oil sheen, and other obvious indicators of pollutant(s));
 - g. Any amendments to the SWPPP proposed as a result of the inspection must be documented as required in Section 6 of the general permit within seven (7) calendar days.
3. Where parts of the construction site have undergone final stabilization, but work remains on other parts of the site, inspections of the stabilized areas may be reduced to once per month. Where work has been suspended due to frozen ground conditions, the required inspections and maintenance must take place within 24 hours after runoff occurs at the site or 24 hours prior to resuming construction, whichever occurs first.
4. All erosion prevention and sediment control BMP's must be inspected to ensure integrity and effectiveness. All nonfunctional BMP's must be repaired, replaced, or supplemented with functional BMP's. The permittee(s) must investigate and comply with the following inspection and maintenance requirements:
 - a. All silt fence must be repaired, replaced, or supplemented when they become nonfunctional or the sediment reaches ½ of the height of the fence. These repairs must be made within 24 hours of discovery, or as soon as field conditions allow access.
 - b. Temporary and permanent sedimentation basins must be drained and the sediment removed when the depth of sediment collected in the basin reaches ½ the storage volume. Drainage and removal must be completed within 72 hours of discovery, or as soon as field conditions allow access.
 - c. Surface waters, including drainage ditches and conveyance systems, must be inspected for evidence of sediment being deposited by erosion. The permittee(s) must remove all deltas and sediment deposited in surface waters, including drainage ways, catch basins, and other drainage systems, and restabilize the areas where sediment removal results in exposed soil. The removal and stabilization must take place within seven (7) days of discovery unless precluded by legal, regulatory, or physical access constraints. The permittee shall use all reasonable efforts to obtain access. If precluded, removal and stabilization must take place within seven (7) calendar days of obtaining access. The permittee is responsible for contacting all local, regional, state and federal authorities and receiving any applicable permits, prior to conducting any work.
 - d. Construction site vehicle exit locations must be inspected for evidence of off-site sediment tracking onto paved surfaces. Tracked sediment must be removed from all paved surfaces within 3 hours after notification by the City that sweeping is required.
 - e. The permittee(s) are responsible for the operation and maintenance of temporary and permanent water quality management BMP's as well as all erosion prevention and sediment control BMP's, for the duration of the construction work at the site. The permittee(s) are responsible until another permittee has assumed control over all areas of the site that have not been finally stabilized or the site has undergone final stabilization, and a NOT has been submitted to the MPCA.
 - e. If sediment escapes the construction site, off-site accumulations of sediment must be removed in a manner and at a frequency sufficient to minimize off-site impacts (e.g. fugitive sediment in streets could be washed into storm sewers by the next rain and/or pose a safety hazard to users of public streets).
5. All infiltration areas must be inspected to ensure that no sediment from ongoing construction activities is reaching the infiltration area and these areas are protected from compaction due to construction equipment driving across the infiltration area.
6. Storm sewer pipes and structures to be inspected and cleaned out.

DATE	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota	
DESIGNED BY: LLL	DATE: 5/23/19
DRAWN BY: LLL	FILE No. 18-09
CHECKED BY: BRW	



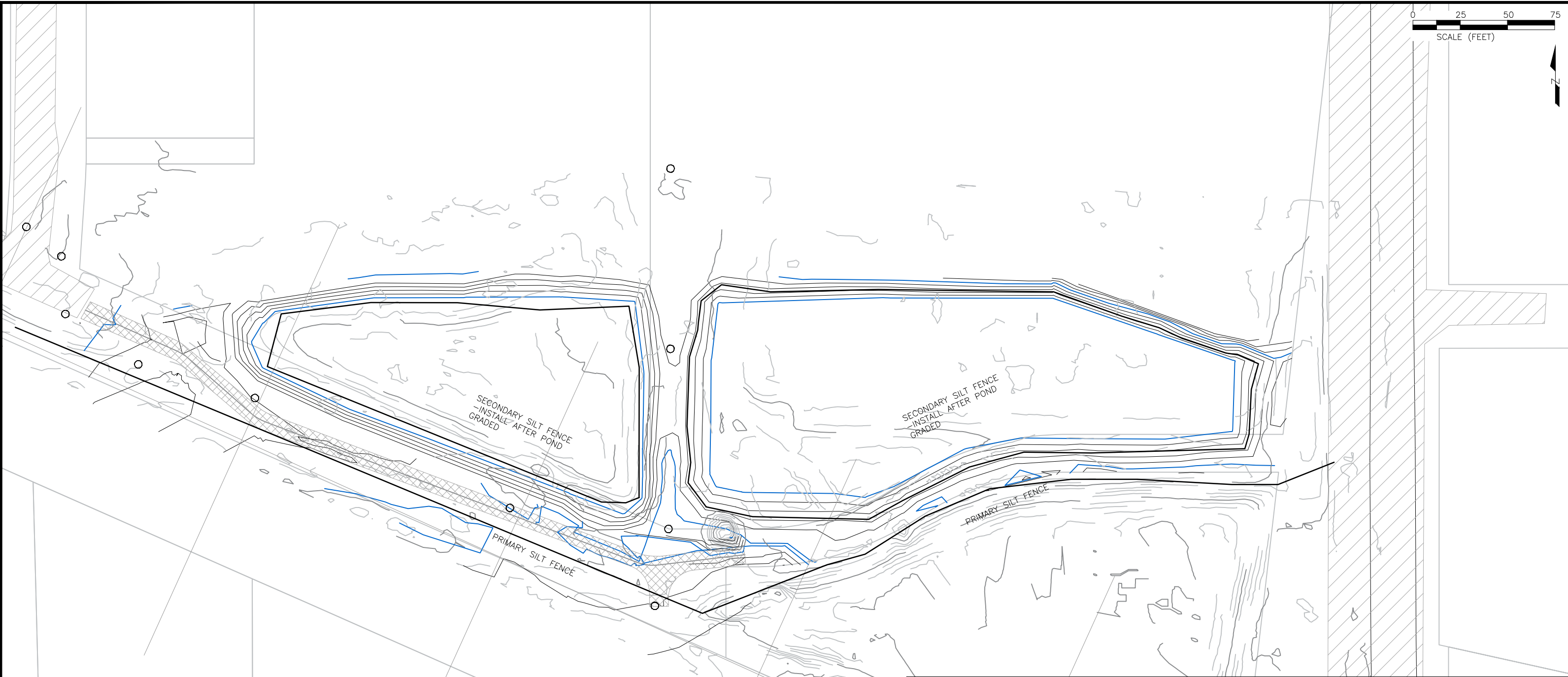
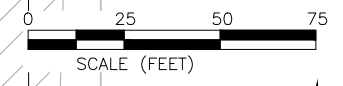
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SWPPP 2


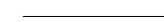







COR INFILTRATION BASIN IMPROVEMENTS
 CITY PROJECT NO. 18-09
 CITY OF RAMSEY, MINNESOTA

Jun 06, 2019 - 9:21am
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LEONARD LINTON
 Date 5/23/19 Lic. No. 21112



LEGEND

-  PR. MAJOR CONTOUR
-  PR. MINOR CONTOUR
-  EX. MAJOR CONTOUR
-  EX. MINOR CONTOUR
-  DRAINAGE ARROW
-  NEW IMPER. PAVEMENT
-  PR. SILT FENCE
-  EX. IMPER. PAVEMENT
-  PR. INLET PROTECTION

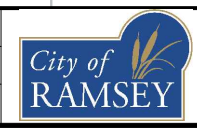
DATE	REVISION

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

LEONARD LINTON
Date 5/23/19 Lic. No. 21112

DESIGNED BY:
LLL
DRAWN BY:
LLL
CHECKED BY:
BRW

DATE:
5/23/19
FILE No.
18-09

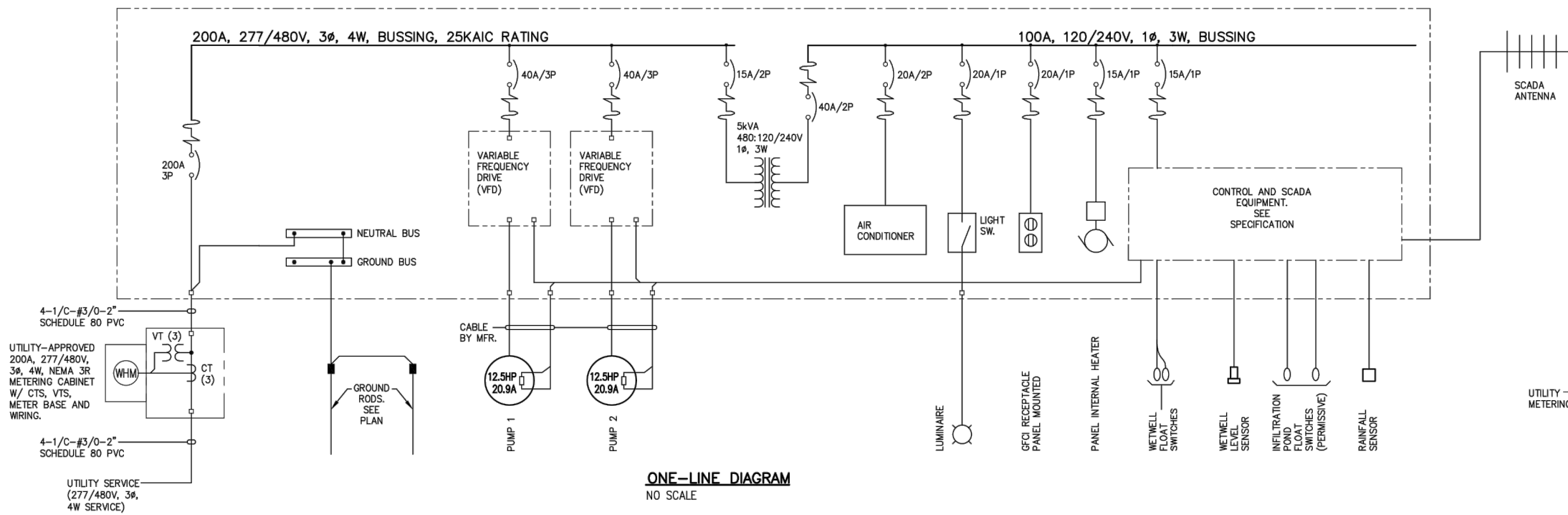


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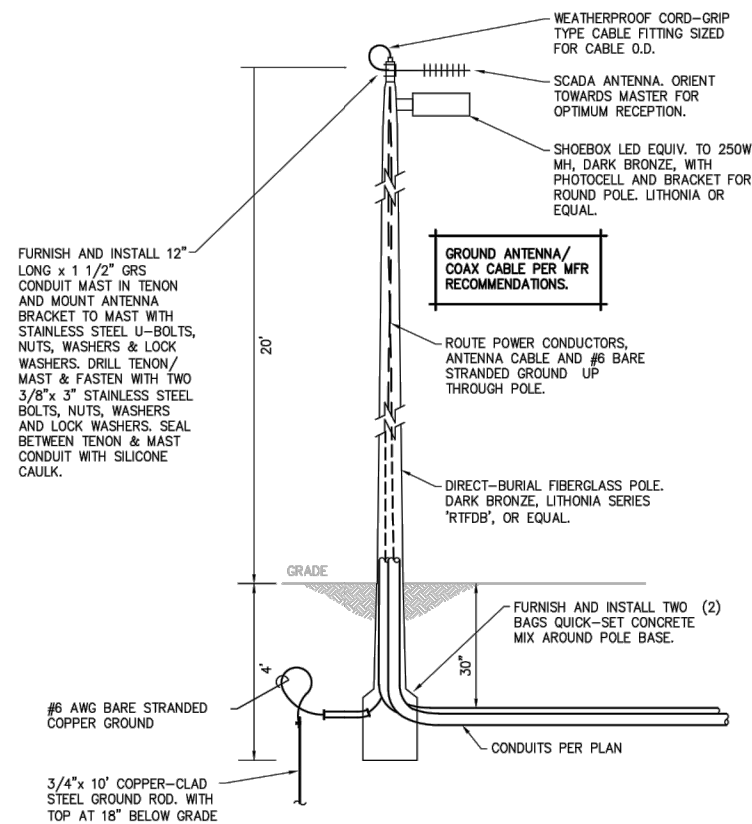
SWPPP 3

COR INFILTRATION BASIN IMPROVEMENTS
CITY PROJECT NO. 18-09
CITY OF RAMSEY, MINNESOTA

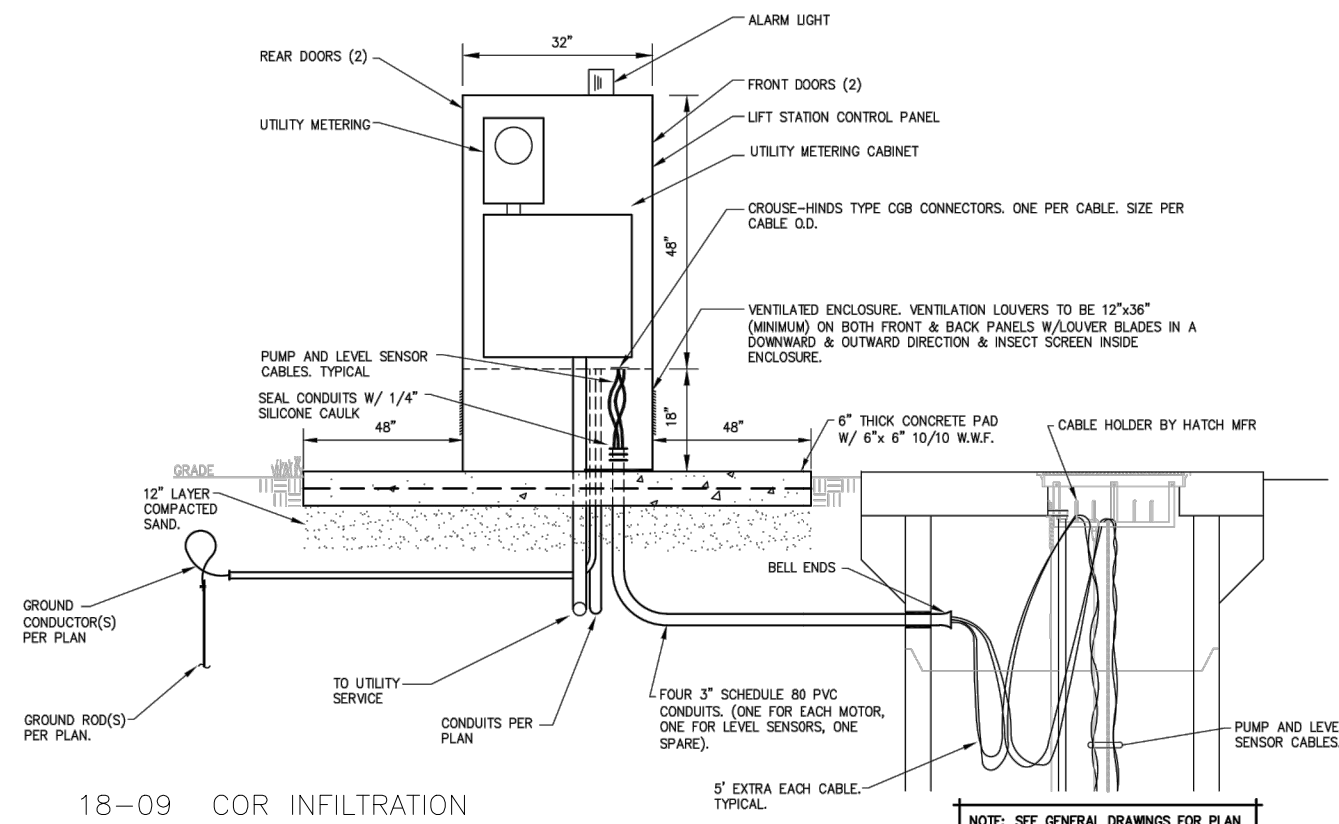
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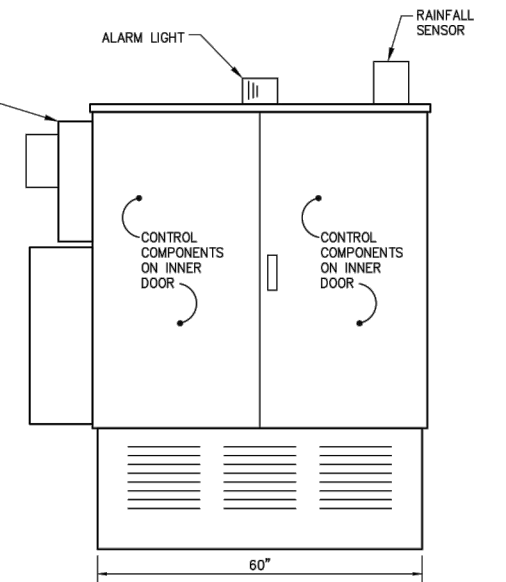
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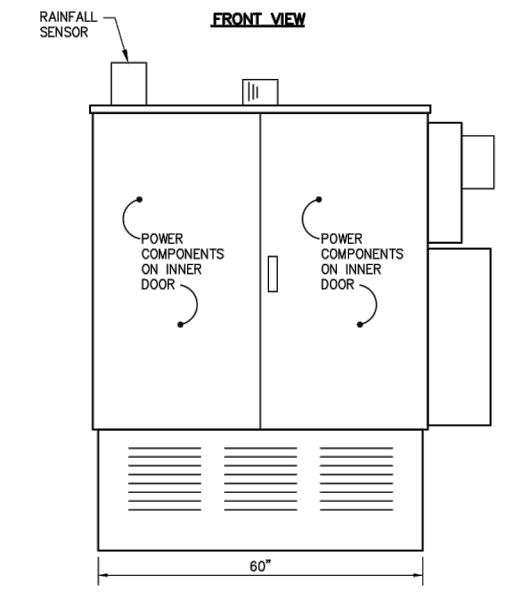
SCADA ANTENNA/LUMINAIRE DETAIL
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LIFT STATION SECTION
NO SCALE



FRONT VIEW



REAR VIEW

LIFT STATION CONTROL PANEL DETAILS
NO SCALE

18-09 COR INFILTRATION
BASIN IMPROVEMENTS
LIFT STATION PLAN AND
SECTION
SHEET 35 OF 37

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

SIGNATURE: *Sheldon J. Sorenson* TYPED OR PRINTED NAME: Sheldon J. Sorenson
DATE: 05/07/2019 LIC. NO.: 18925

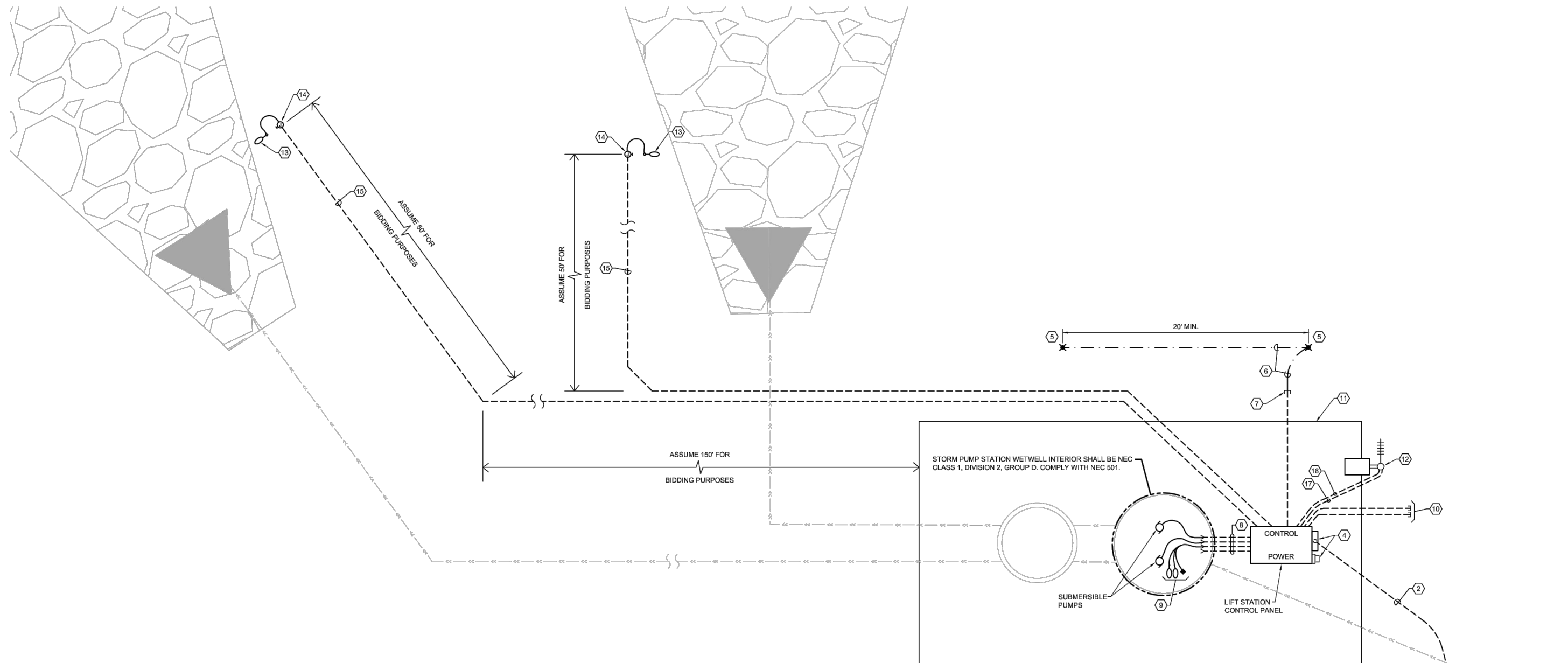


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DESIGNED	CHKD	REVISION	DATE
SJS		0	9/12/2018
CML		1	5/07/2019
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SJS			
CLIENT PROJ. NO.			

CITY OF RAMSEY, MINNESOTA
INFILTRATION PONDS - LIFT STATION
LIFT STATION ELECTRICAL DETAILS

SHEET
7.02



GENERAL NOTES:

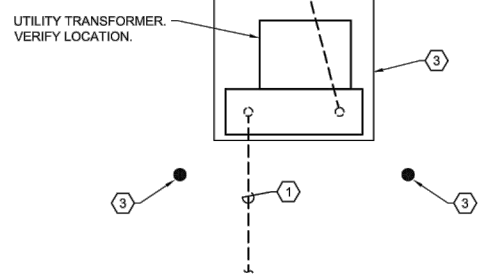
1. COORDINATE NEW ELECTRIC SERVICE AND METERING REQUIREMENTS WITH SERVING UTILITY.
2. FIELD CONFIRM LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES, CABLES, CONDUITS, ETC. PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPAIR ALL SUCH ITEMS AT NO EXTRA COST IF DAMAGED BY CONTRACTOR.
3. ELECTRONICALLY LOCATE ALL PRIVATE UNDERGROUND LINES IN AREAS THAT WILL BE DISTURBED. PROTECT ALL EXISTING UNDERGROUND FACILITIES.
4. FIELD CONFIRM ALL CONDUIT ROUTES WITH ENGINEER.
5. USE DIRECTIONAL BORING OR SIMILAR METHOD FOR NEW CONDUITS TO BE INSTALLED UNDER EXISTING SIDEWALKS AND PAVEMENTS. WHERE PITS ARE OPENED, RESTORE ALL SURFACES TO MATCH EXISTING.
6. CORE DRILL EXISTING STRUCTURES AS REQUIRED FOR NEW CONDUIT INSTALLATION.
7. RESTORE ALL SURFACES DISTURBED BY THIS WORK.

NUMBERED NOTES:

- 1 UTILITY PRIMARY CABLES. VERIFY QUANTITY AND ROUTES WITH UTILITY.
- 2 SERVICE CABLES AND CONDUIT. SEE ONE-LINE DIAGRAM.
- 3 CONSTRUCT TRANSFORMER PAD AND FOUR (4) BOLLARDS IN ACCORDANCE WITH CONNEXUS ENERGY REQUIREMENTS.
- 4 UTILITY METERING CT/VT CABINET AND METER. SUPPLY EQUIPMENT; CONDUIT AND WIRING PER CONNEXUS ENERGY REQUIREMENTS.
- 5 3/4" X 10' COPPER-CLAD GROUND ROD WITH EXOTHERMIC WELD TO CONDUCTOR(S) SHOWN. SET TOP 12" DEEP.
- 6 #1/0AWG BARE STRANDED COPPER GROUND CONDUCTOR, 12" DEEP.
- 7 STUB 1.25" SCHEDULE 80 PVC CONDUIT FOR GROUND.
- 8 FOUR (4) 3" SCHEDULE 80 PVC CONDUITS FOR PUMP AND LEVEL SENSOR CABLES. SEE LIFT STATION SECTION.
- 9 FLOAT SWITCHES AND SUBMERSIBLE LEVEL SENSOR WITH STAINLESS STEEL CABLE AND WEIGHT ASSEMBLY. PROVIDE STAINLESS STEEL HANGER BRACKET BELOW HATCH, SECURED WITH ALL STAINLESS STEEL HARDWARE.
- 10 STUB TWO (2) SPARE 2" SCHEDULE 80 PVC CONDUITS FOR FUTURE USE. CAP ENDS.
- 11 CONSTRUCT REINFORCED CONCRETE PAD. SEE LIFT STATION SECTION.
- 12 POLE WITH SCADA ANTENNA AND LUMINAIRE. SEE DETAIL.
- 13 INFILTRATION BASIN "PERMISSIVE" FLOAT SWITCH. PROVIDE STAINLESS STEEL HANGER BRACKET, SECURED WITH ALL STAINLESS STEEL HARDWARE. MOUNT IN STRUCTURE AS DIRECTED, VERIFY LOCATION, CONDUIT PATH AND MOUNTING HEIGHT WITH ENGINEER DURING CONSTRUCTION.
- 14 PROVIDE NEMA 4X STAINLESS STEEL TAMPER-RESISTANT ENCLOSURE OUTSIDE STRUCTURE. ENCLOSURE TO HAVE TERMINAL BLOCKS FOR TERMINATING FLOAT SWITCH CABLE. ROUTE 2" SCHEDULE 80 PVC CONDUIT INTO STRUCTURE FOR FLOAT SWITCH CABLE. CONFIRM DETAILS WITH ENGINEER DURING CONSTRUCTION.
- 15 2-#14 IN 1.25" SCHEDULE 80 PVC CONDUIT.
- 16 2-#12 & 1-#12 GROUND IN 1.25" SCHEDULE 80 PVC CONDUIT.
- 17 ARMORED ANTENNA CABLE IN 2" SCHEDULE 80 PVC CONDUIT.

ELECTRICAL PLAN

0 1 5
SCALE



18-09 COR INFILTRATION
BASIN IMPROVEMENTS
LIFT STATION PLAN AND
SECTION
SHEET 36 OF 37

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

SIGNATURE: *Sheldon J. Sorensen* TYPED OR PRINTED NAME: Sheldon J. Sorensen
DATE: 05/07/2019 LIC. NO.: 18925

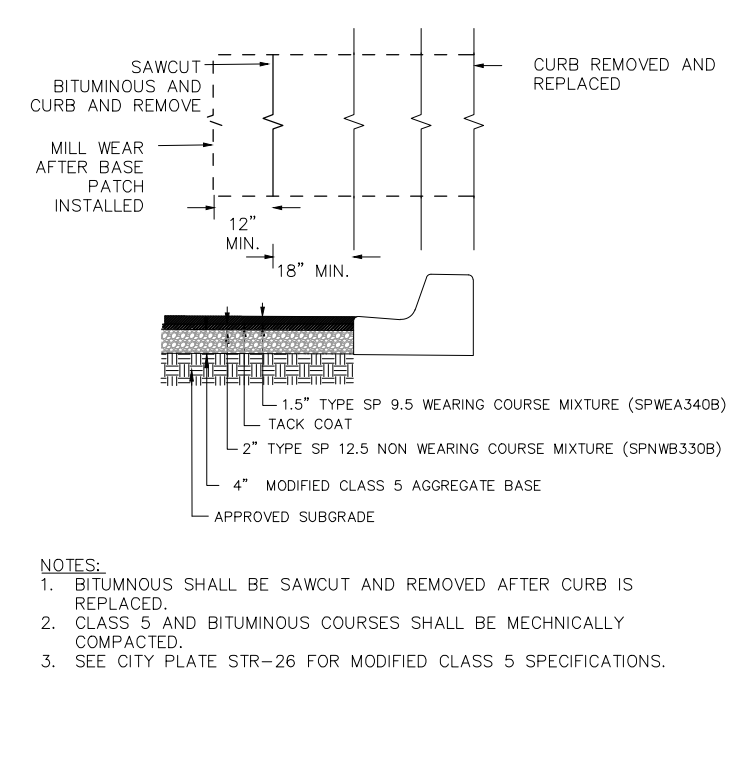
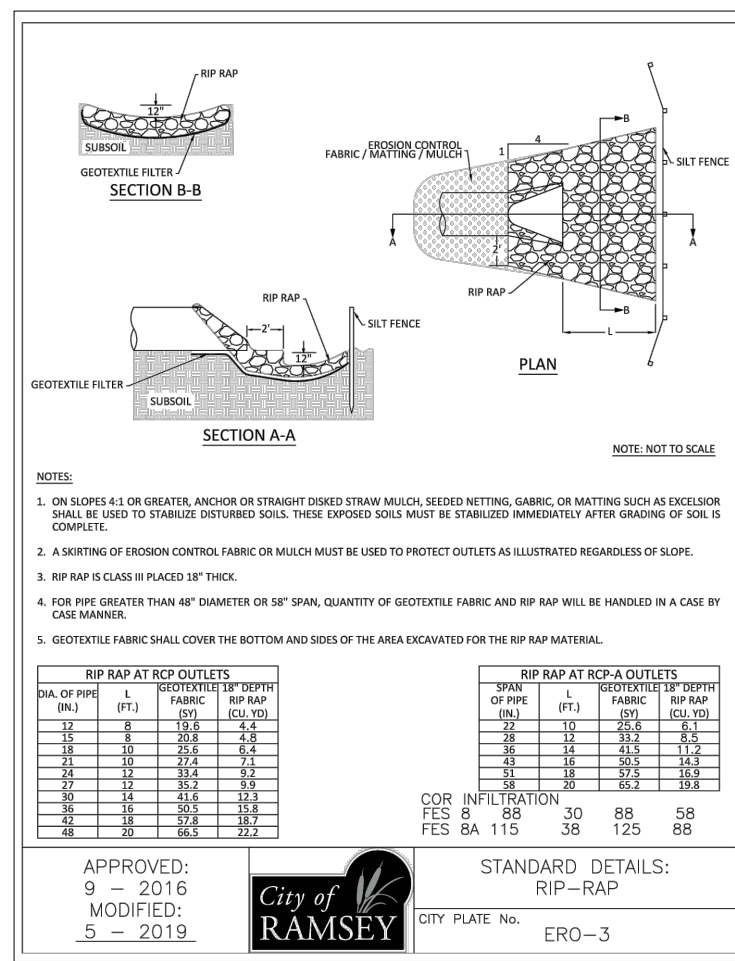
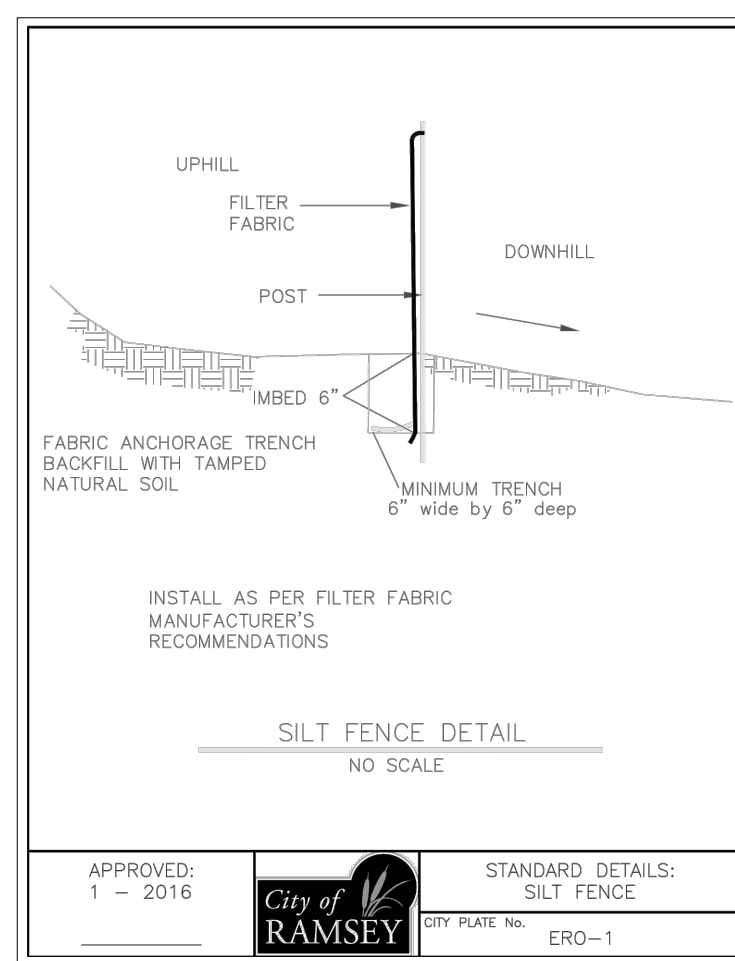
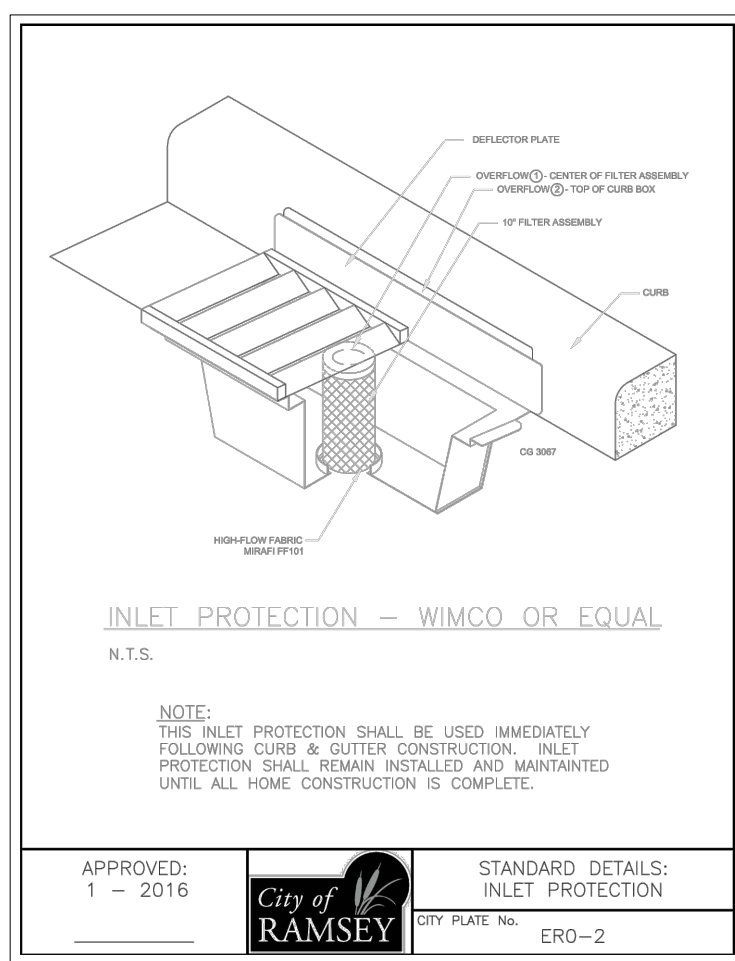
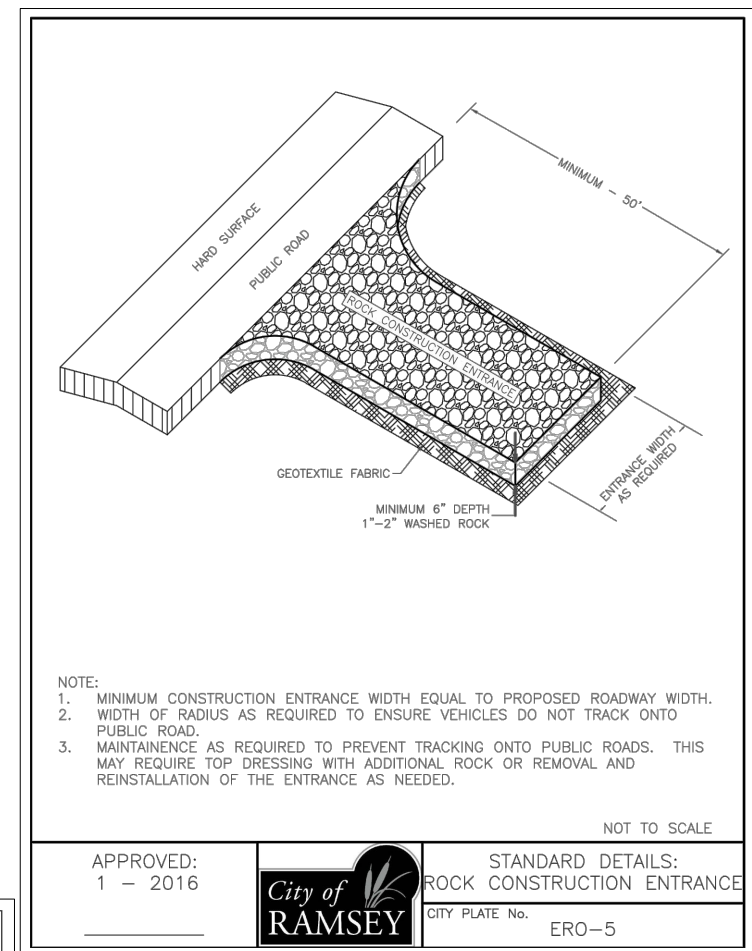


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DESIGNED	NO.	REVISION	DATE
SJS	0		9/12/2018
DRAWN	1		5/07/2019
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CLIENT PROJ. NO.			

CITY OF RAMSEY, MINNESOTA
INFILTRATION PONDS - LIFT STATION
LIFT STATION ELECTRICAL PLAN

SHEET
7.01



DATE	REVISION
Jun 06, 2019 - 9:22am	
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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota

Leonard Linton
LEONARD LINTON
Date 5/23/19 Lic. No. 5/23/19

DESIGNED BY: LLL	DATE: 5/23/19
DRAWN BY: LLL	FILE No. 18-09
CHECKED BY: BRW	

City of RAMSEY

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