

CITY OF RAMSEY

CENTRAL PARK MAIN PARKING LOT RECONSTRUCTION

CITY IMPROVEMENT PROJECT NO. 23-02

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "SUPPLEMENTAL SPECIFICATIONS" DATED SEPTEMBER 2022 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.

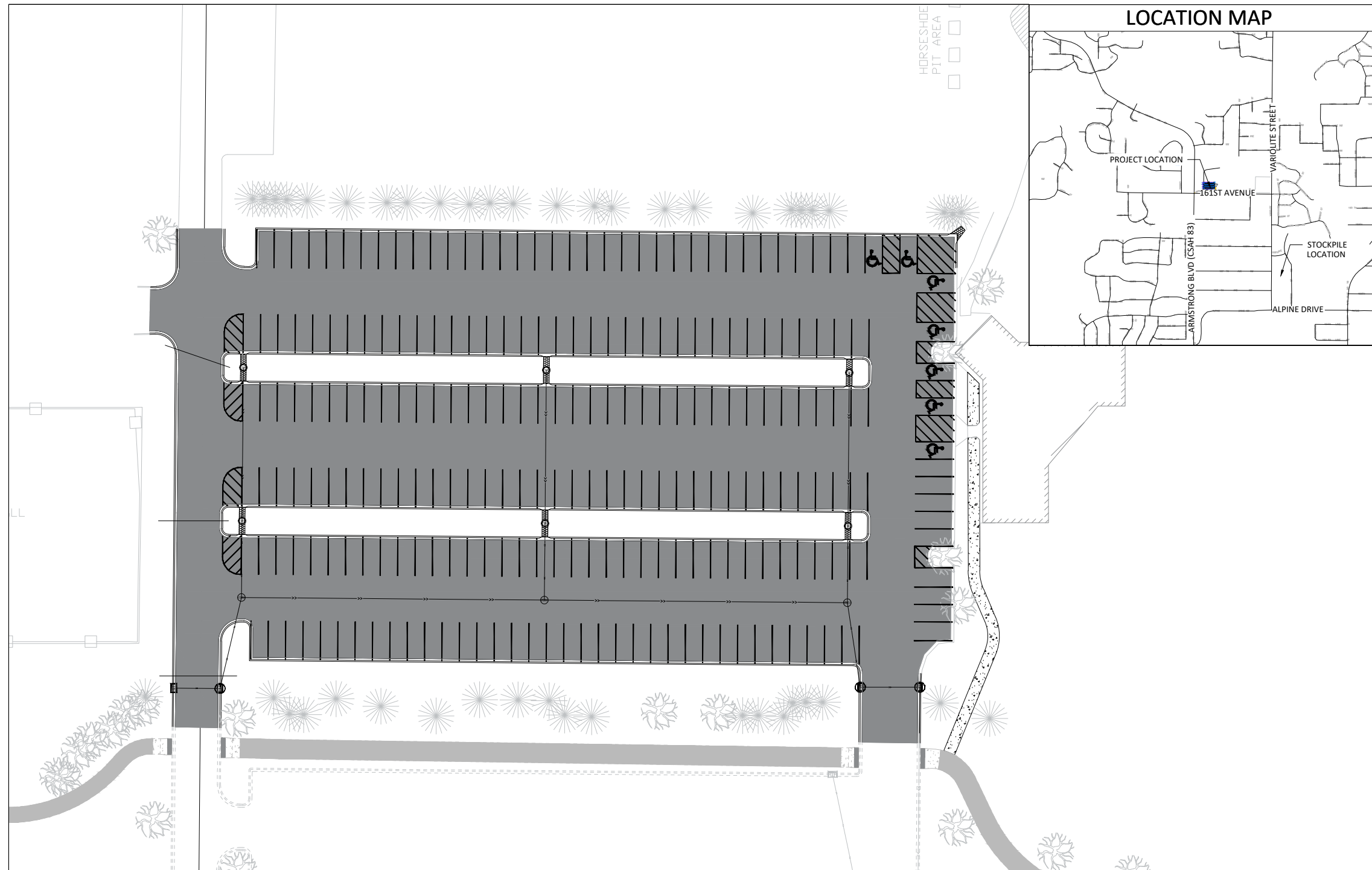
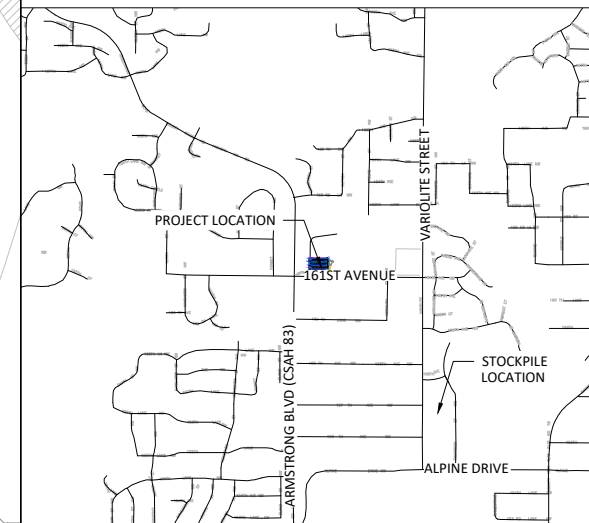
SHEET INDEX

THIS PLAN CONTAINS 13 SHEETS

SHEET No.	DESCRIPTION
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01	TITLE SHEET
02	STATEMENT OF ESTIMATED QUANTITIES
03-05	DETAILS
06	EXISTING CONDITIONS & REMOVALS
07	GRADING & EROSION CONTROL
08-09	STORM SEWER
10	RESTORATION
11	PAVEMENT MARKING & SIGNAGE
12-13	SWPPP

LOCATION MAP



LEGEND

	SANITARY MANHOLE		Easement - Drainage & Utility
	STORM SEWER MANHOLE		Easement - Roadway
	CATCH BASIN MANHOLE		LOT LINE
	CATCH BASIN		ELECTRIC LINE
	CATCH BASIN - GROUT		ELECTRIC LINE - BURIED
	CATCH BASIN - RESET		ELECTRIC LINE - OVERHEAD
	FLARED END SECTION		GAS LINE
	CULVERT END SECTION		TELECOMMUNICATION LINE
	HYDRANT		TELECOMM - OVERHEAD
	VALVE		FIBER OPTIC LINE
	TREE - CONIFEROUS		TREE LINE
	TREE - DECIDUOUS		LANDSCAPE
	SHRUB		RETAINING WALL
	LIGHT POLE		TREE SAVE FENCE
	SIGN		SILT FENCE
	MAILBOX		WATERMAIN
	PEDESTAL - TELECOM		SANITARY SEWER
	PEDESTAL - ELECTRIC		STORM SEWER
	HAND HOLE		DRAIN TILE

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.

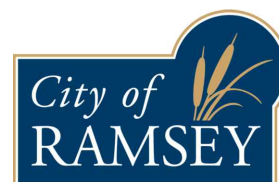
JOE FERJANCEK, P.E.
 ASSISTANT CITY ENGINEER

57095 DATE 07/27/23
 LIC. NO.

DATE	REVISION

SHEET 01 OF 13 SHEETS

0 30 60 90
 SCALE (FEET)



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



Call before you dig
 811
 651 454-0002 Metro
 800 252-1166 Outstate
www.gopherstateonecall.org

STATEMENT OF ESTIMATED QUANTITIES					
NOTE	ITEM NO.	MNDOT NO.	ITEM	UNIT	ESTIMATED QUANTITY
	1	2021.501	MOBILIZATION	LS	1
	2	2101.501	CLEARING & GRUBBING LANDSCAPING	LS	1
1	3	2101.502	CLEARING	EACH	7
1	4	2101.502	GRUBBING	EACH	7
1	5	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LF	101
1	6	2104.503	REMOVE CONCRETE CURB AND GUTTER	LF	32
1	7	2104.503	REMOVE BITUMINOUS CURB	LF	39
1	8	2104.504	REMOVE BITUMINOUS PAVEMENT	SY	8837
13	9	2106.507	EXCAVATION - COMMON (EV)	CY	100
10, 11, 12	10	2106.507	EXCAVATION - SUBGRADE (EV)	CY	1632
2, 12	11	2106.607	HAUL & STOCKPILE SUBGRADE EXCAVATION MATERIAL	CY	1705
	12	2112.604	SUBGRADE PREPARATION	SY	9305
	13	2130.523	WATER	MGAL	30
2, 14	14	2211.507	AGGREGATE BASE CLASS 5 MODIFIED	CY	1354
3	15	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GAL	608
4	16	2360.509	TYPE SP 12.5 NON WEARING COURSE MIXTURE (3,E)	TON	982
4	17	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3,E)	TON	736
	18	2502.603	4" PVC CONDUIT - SCHEDULE 40	LF	111
	19	2503.503	15" RC PIPE SEWER DESIGN 3006 CLASS III	LF	429
	20	2503.503	18" RC PIPE SEWER DESIGN 3006 CLASS III	LF	358
	21	2503.503	24" RC PIPE SEWER DESIGN 3006 CLASS III	LF	31
	22	2503.503	30" RC PIPE SEWER DESIGN 3006 CLASS III	LF	24
	23	2503.503	CLEAN & VIDEO PIPE SEWER	LF	842
	24	2503.602	CONNECT TO EXISTING STORM SEWER	EA	1
	25	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 2'X3'	EA	1
	26	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 27-4020	EA	6
	27	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	EA	5
	28	2506.502	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60-4020	EA	1
	29	2506.502	CASTING ASSEMBLY (STORM)	EA	13
	30	2521.504	6" CONCRETE WALK	SY	129
	31	2531.604	6" CONCRETE FLUME	SY	26
	32	2534.503	CONCRETE CURB & GUTTER DESIGN B612	LF	2551
9	33	2563.601	TRAFFIC CONTROL	LS	1
	34	2572.503	TEMPORARY TREE PROTECTION FENCE	LF	697
	35	2573.501	STABILIZED CONSTRUCTION EXIT	EA	1
	36	2573.502	STORM DRAIN INLET PROTECTION	EA	11
	37	2573.503	SILT FENCE, TYPE MS	LF	239
2	38	2574.507	TOPSOIL (LV)	CY	567
5	39	2574.508	FERTILIZER TYPE 3	LBS	40
	40	2575.505	SEEDING	ACRE	0.4
8	41	2575.508	HYDRAULIC MULCH MATRIX	LBS	760
6	42	2575.508	SEED MIXTURE 25-151	LBS	25
7	43	2575.508	SEED MIXTURE 33-262	LBS	10
	44	2575.604	ROLLED EROSION PREVENTION CATEGORY 25	SY	1009
	45	2582.503	4" SOLID LINE PAINT (EPOXY)	LF	5314
	46	2582.618	PAVEMENT MESSAGE (EPOXY)	SF	25

PAY ITEM NOTES:

- REMOVAL LIMITS SHALL BE MARKED IN THE FIELD BY CITY STAFF.
- EV TO CV CONVERSION FACTOR = 1.25.
- ESTIMATED QUANTITY BASED ON APPLICATION RATE OF 0.07 GAL/SY.
- ESTIMATED QUANTITY BASED ON APPLICATION RATE OF 113 LB/SY-IN.
- ESTIMATED QUANTITY BASED ON 100 LB/ACRE.
- ESTIMATED QUANTITY BASED ON 120 LB/ACRE.
- ESTIMATED QUANTITY BASED ON 35 LB/ACRE.
- ESTIMATED QUANTITY BASED ON 4000 LB/ACRE.
- LUMP SUM QUANTITY SHALL INCLUDE ALL COST REQUIRED FOR MAINTAINING ALL FLAGGING OPERATIONS AS NECESSARY, MAINTAINING PEDESTRIAN ACCESS ROUTES, ANY SIGNAGE AND BARRICADES AS NECESSARY.
- THE EXCAVATION REQUIRED FOR UTILITY INSTALLATION IS INCIDENTAL TO THE UTILITY PAY ITEM.
- SUBGRADE EXCAVATION IS CONSIDERED EXCAVATION BELOW THE EXISTING BITUMINOUS PAVEMENT AND EXISTING MEDIAN. THE EXISTING MEDIAN IS ASSUMED TO CONTAIN 3 FEET OF RE-USABLE TOPSOIL..
- THE HAUL & STOCKPILE SUBGRADE EXCAVATION MATERIAL IS ESTIMATED BASED ON 1364 CY OF NET EXCESS EXCAVATION MATERIAL. THE STOCKPILE LOCATION IS LOCATED OFF OF ZEOLITE STREET, SOUTH OF BUNKER LAKE BOULEVARD. PROVIDING ALL REQUIRED EQUIPMENT FOR STOCKPILING IS INCIDENTAL TO THE PAY ITEM.
- THE COMMON EXCAVATION QUANTITY IS BASED ON EXCAVATING FOR 4 INCHES OF TOPSOIL IN AREAS DISTURBED BY CONSTRUCTION. ON-SITE TOPSOIL MAY RE-USED AND SHALL BE PAID FOR UNDER THE TOPSOIL PAY ITEM. ON-SITE STOCKPILING OF TOPSOIL IS INCIDENTAL TO THE TOPSOIL PAY ITEM.
- THE CONTRACTOR MAY USE RECLAMATION MATERIAL PASSING THE CITY'S CLASS 5 MODIFIED SPECIFICATION AS AGGREGATE BASE. THE CITY ANTICIPATES HAVING A RECLAIM STOCKPILE AT TRAPROCK PARK, LOCATED AT 15650 TRAPROCK STREET. THE ACCESS FOR TRAPROCK PARK IS OFF OF VARIOLITE STREET, NORTH OF ALPINE DRIVE.

GENERAL NOTES:

- 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.
- 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.
- PERMANENT SIGN REMOVAL AND INSTALLATION IS TO BE PERFORMED BY CITY OF RAMSEY PUBLIC WORKS DEPARTMENT.

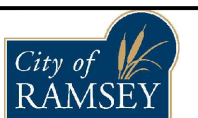
DATE	REVISION

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Joe Feriancek
JOE FERIANCEK
 Date 07/27/23 Lic. No. 57095

DESIGNED BY: JJF
 DRAWN BY: JJF
 CHECKED BY: JJF

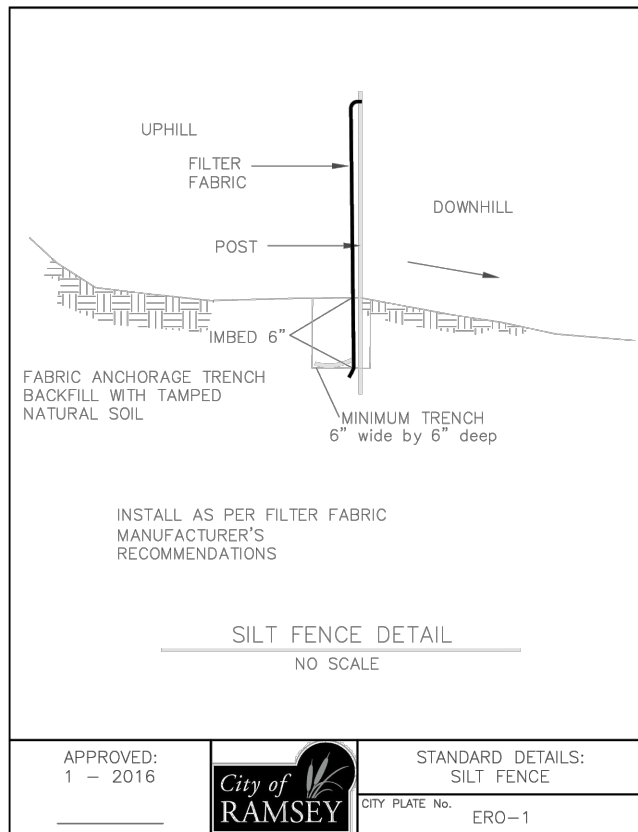
DATE: 07/21/23
 FILE: 23-02



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

STATEMENT OF ESTIMATED QUANTITIES

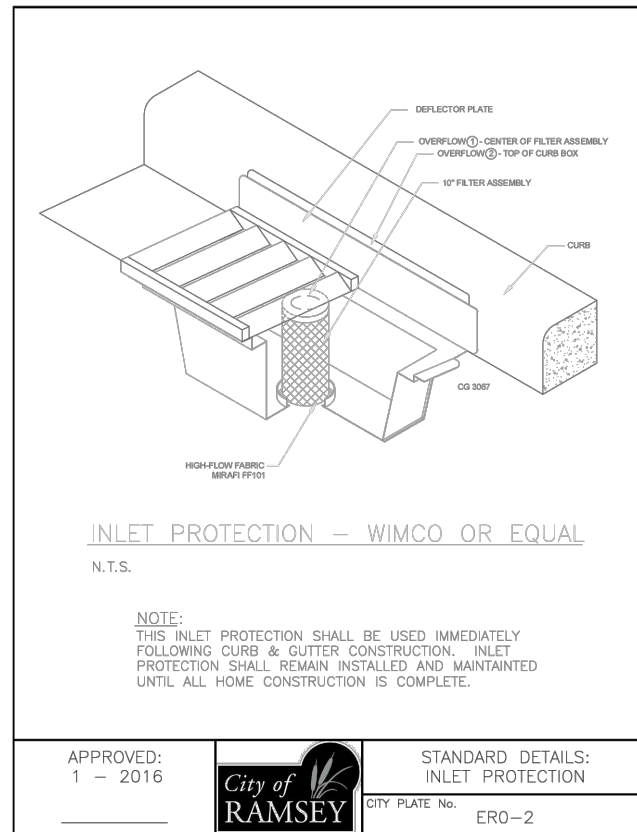
CENTRAL PARK MAIN PARKING LOT RECONSTRUCTION
CITY PROJECT NO. 23-02
 CITY OF RAMSEY, MINNESOTA



APPROVED: 1 - 2016

City of RAMSEY
CITY PLATE No. ERO-1

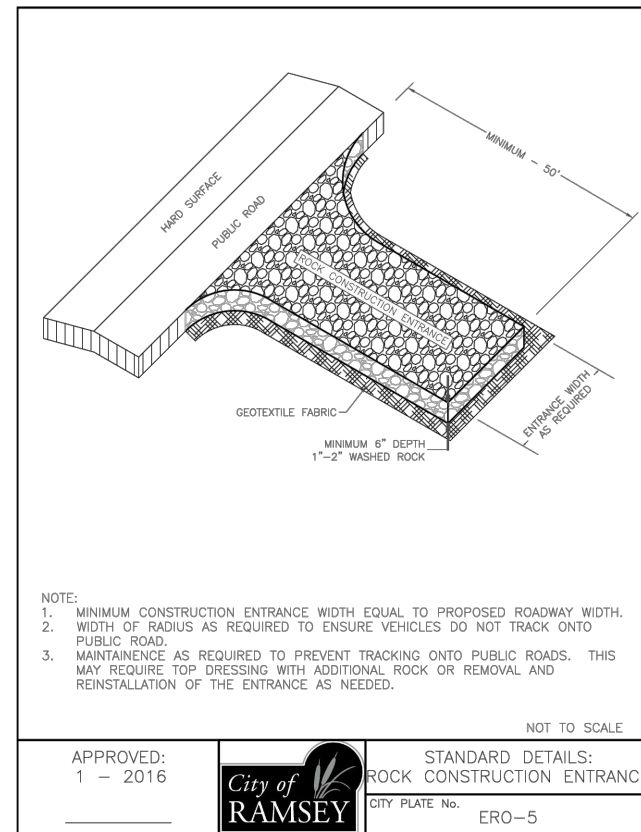
STANDARD DETAILS: SILT FENCE



APPROVED: 1 - 2016

City of RAMSEY
CITY PLATE No. ERO-2

STANDARD DETAILS: INLET PROTECTION



APPROVED: 1 - 2016

City of RAMSEY
CITY PLATE No. ERO-5

STANDARD DETAILS: ROCK CONSTRUCTION ENTRANCE

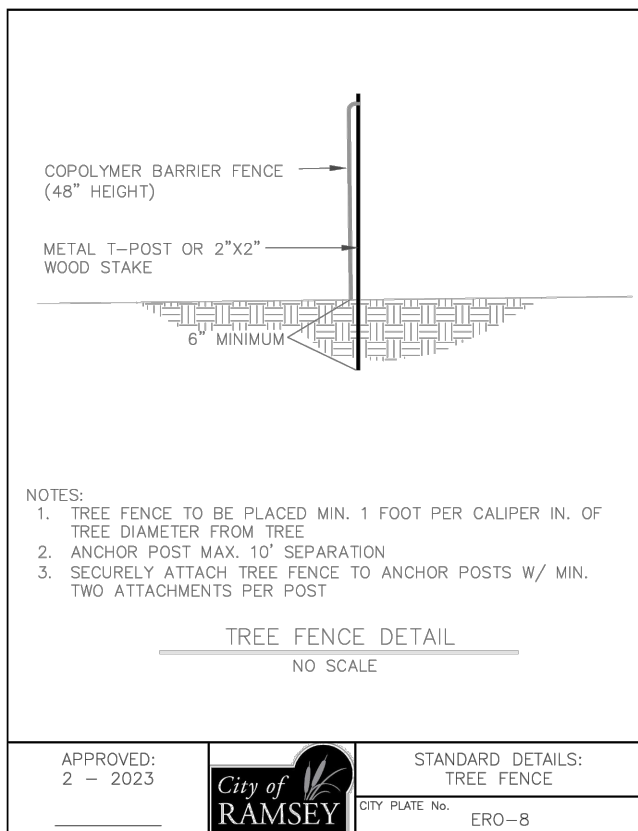
Notes:

1. INSTALLATION OF 4" OF TOPSOIL REQUIRED ACROSS ALL DISTURBED AREAS.
2. TOPSOIL IS DEFINED AS BLACK DIRT COMPOSED OF UNCONSOLIDATED MATERIAL, LARGELY UNDECOMPOSED ORGANIC MATTER WHICH IS SUITABLE FOUNDATION FOR VEGETATIVE GROWTH.
3. THE COMPOSITION OF TOPSOIL SHOULD CONTAIN NO MORE THAN THIRTY-FIVE PERCENT (35%) SAND CONTENT.

APPROVED: 7 - 2019

City of RAMSEY
CITY PLATE No. ERO-6

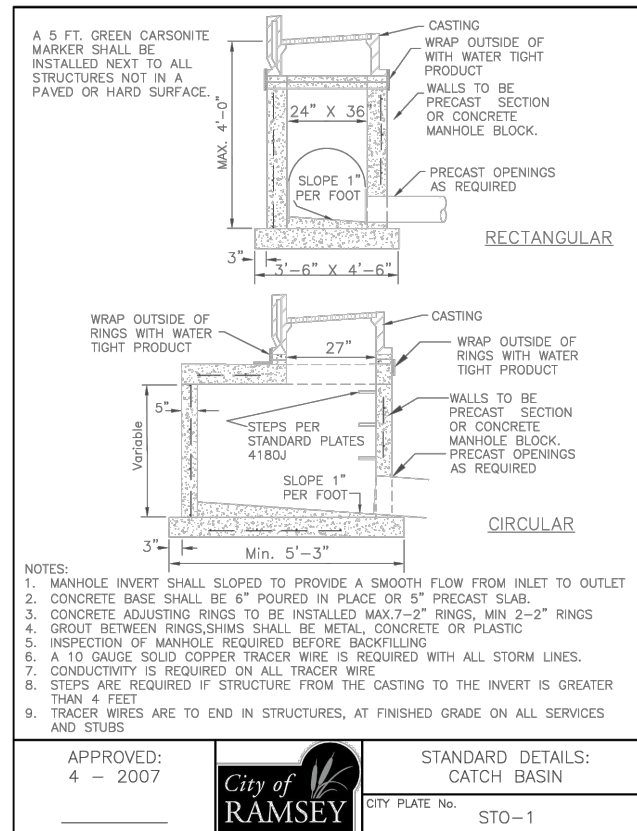
STANDARD DETAILS: TOPSOIL REQUIREMENTS



APPROVED: 2 - 2023

City of RAMSEY
CITY PLATE No. ERO-8

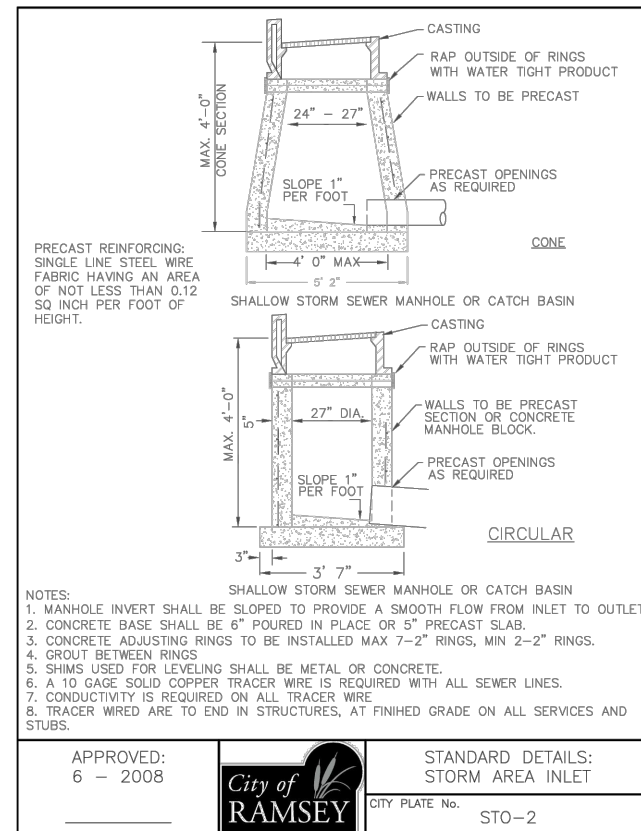
STANDARD DETAILS: TREE FENCE



APPROVED: 4 - 2007

City of RAMSEY
CITY PLATE No. STO-1

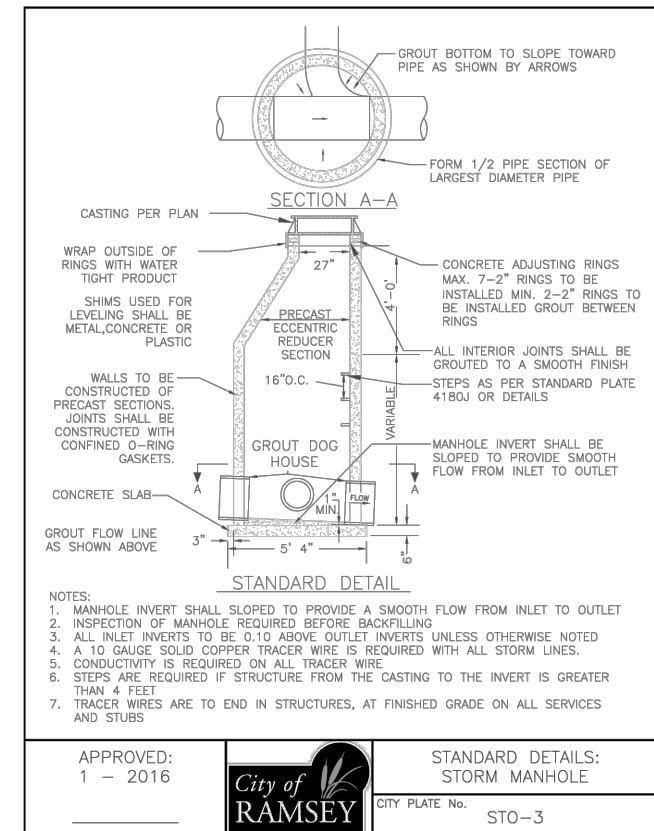
STANDARD DETAILS: CATCH BASIN



APPROVED: 6 - 2008

City of RAMSEY
CITY PLATE No. STO-2

STANDARD DETAILS: STORM AREA INLET



APPROVED: 1 - 2016

City of RAMSEY
CITY PLATE No. STO-3

STANDARD DETAILS: STORM MANHOLE

DATE	REVISION

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Date 07/27/23 Lic. No. 57095

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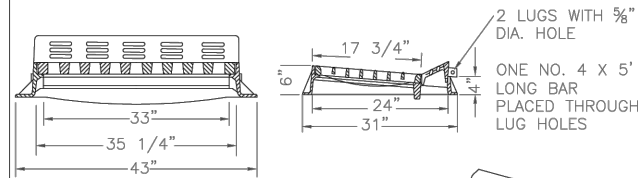
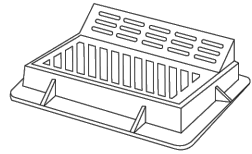
City of RAMSEY
7550 SUNWOOD DRIVE
RAMSEY, MN 55303
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DETAILS

CENTRAL PARK MAIN PARKING LOT RECONSTRUCTION
CITY PROJECT NO. 23-02
CITY OF RAMSEY, MINNESOTA

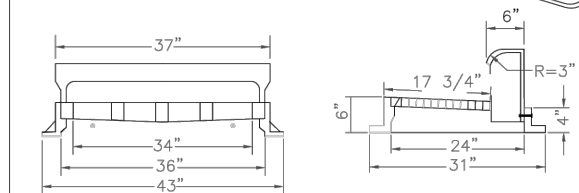
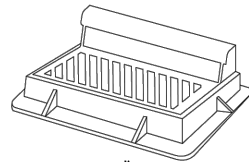
NOTE: SURMOUNTABLE CURB & GUTTER

- CATCH BASIN CASTING SHALL BE NEENAH R-3067 WITH GRATED BACK (BICYCLE SAFE) OR APPROVED EQUAL.
- FOR CATCH BASINS ADJACENT TO RADIUS, USE NEENAH R-3246R OR APPROVED EQUAL.



NOTE: B 618 CURB & GUTTER

- CATCH BASIN CASTING SHALL BE NEENAH R-3246R OR APPROVED EQUAL.



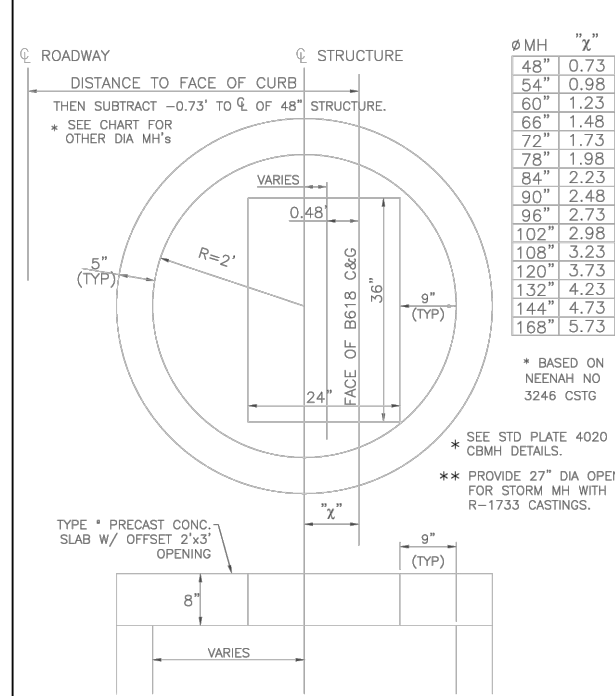
STANDARD CATCHBASIN CASTING

APPROVED:
7 - 2016



STANDARD DETAILS:
STORMWATER CASTING

CITY PLATE No. STD-4

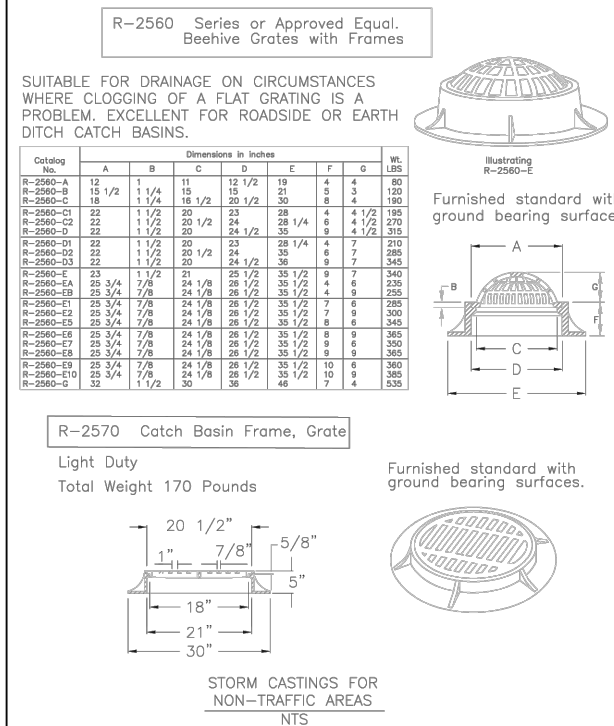


APPROVED:
4 - 2005



STANDARD DETAILS:
SLAB TOP MANHOLE COVER

CITY PLATE No. STO-5

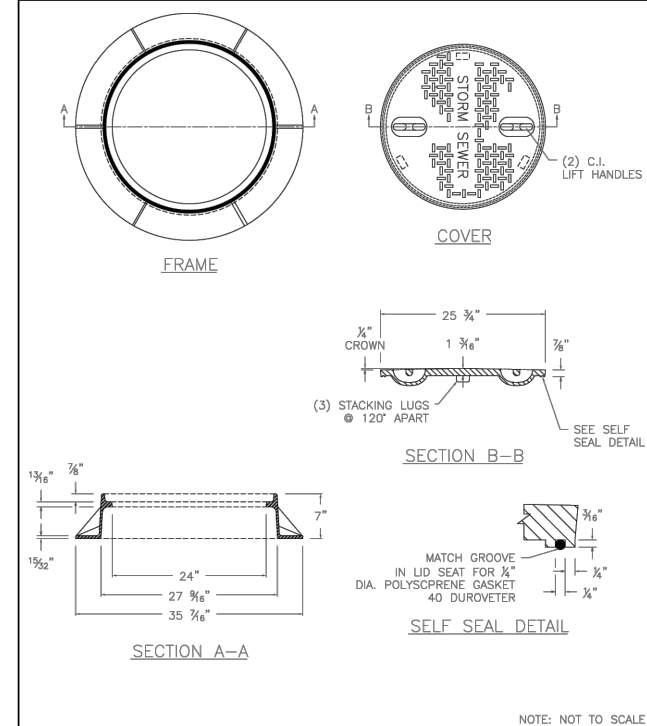


APPROVED:
9 - 2011



STANDARD DETAILS:
STORM CASTING -
NON TRAFFIC AREAS

CITY PLATE No. STO-6

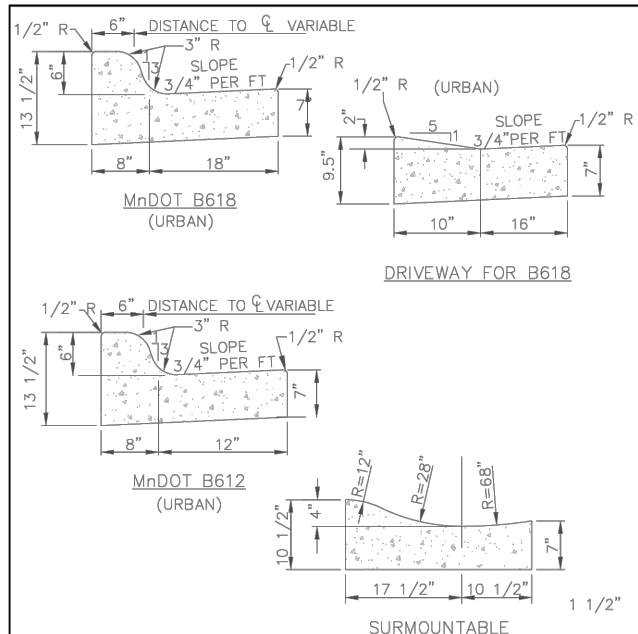


APPROVED:
2 - 2019



STANDARD DETAILS:
WATER TIGHT CASTING

CITY PLATE No. STO-14

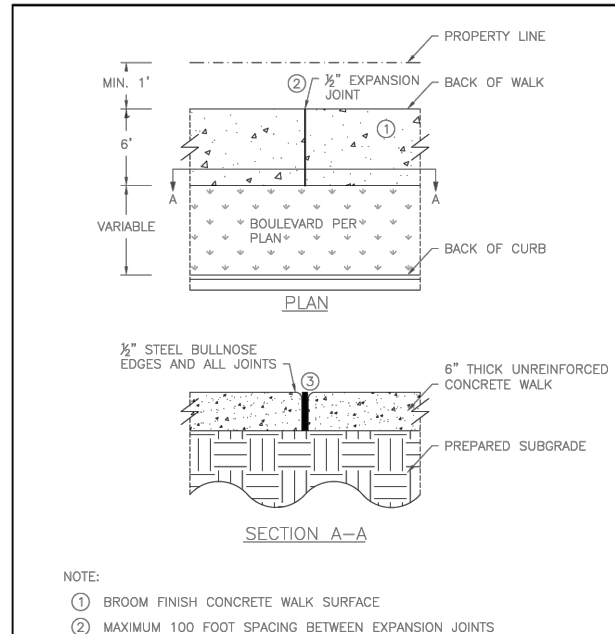


APPROVED:
1 - 2016



STANDARD DETAILS:
CURB AND GUTTER

CITY PLATE No. STR-1



APPROVED:
10 - 2015



STANDARD DETAILS:
CONCRETE SIDEWALK

CITY PLATE No. STR-3

TABLE A MODIFIED CLASS 5 SPECIFICATIONS

% PASSING

1"	100
3/4"	90 - 100
3/8"	50 - 80
No.4	35 - 70
No.10	20 - 60
No.40	10 - 35
No.200	5 - 10

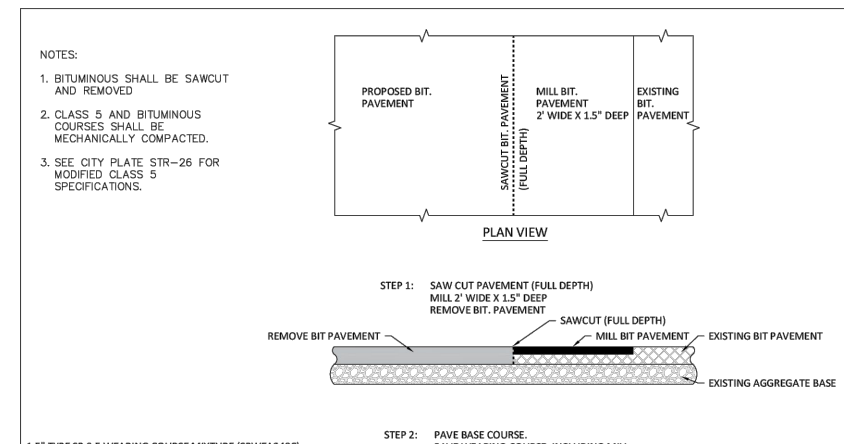
NOTES:
1. THE AGGREGATE BASE CONSTRUCTION WILL BE ACCEPTED FOR PAYMENT IN ACCORDANCE WITH THE PROVISIONS IN TABLE A.
2. IF THE AGGREGATE BASE FAILS TO MEET THE REQUIREMENTS OF TABLE A THE MATERIAL CAN BE CORRECTED IN PLACE OR REMOVED AND REPLACED WITH MATERIAL THAT MEET THE REQUIREMENTS OF TABLE A.
3. IN THE EVENT THAT RECYCLED MATERIAL IS USE IT MUST MEET MNDOT REQUIREMENTS FOR RECYCLED BASE.

APPROVED:
2 - 2003



STANDARD DETAILS:
MODIFIED CLASS 5
SPECIFICATIONS

CITY PLATE No. STR-26



APPROVED:
3 - 2017



STANDARD DETAILS:
STREET TIE-IN

CITY PLATE No. STR-31

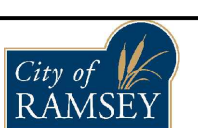
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Joe Feriancek
JOE FERIANCEK
Date 07/27/23 Lic. No. 57095

DESIGNED BY: JJF
DRAWN BY: JJF
CHECKED BY: JJF

DATE: 07/21/23
FILE: 23-02



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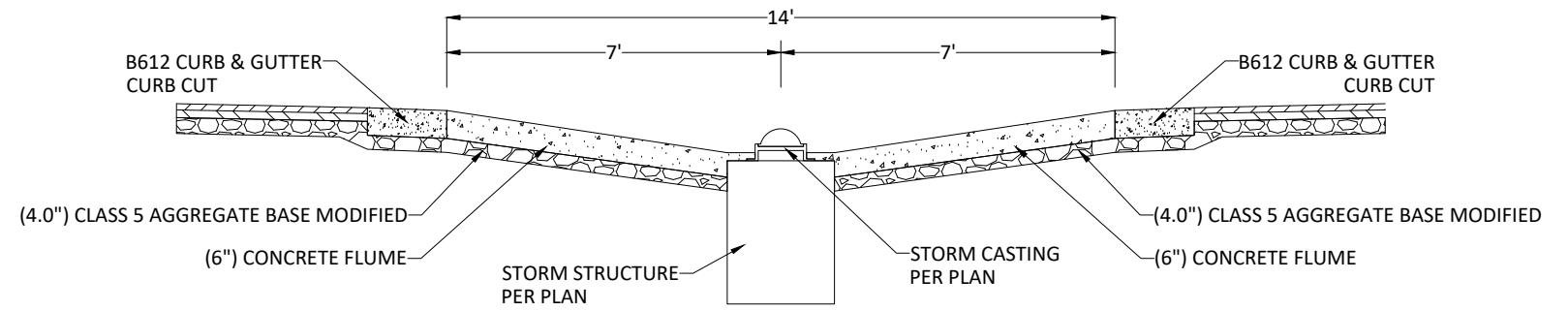
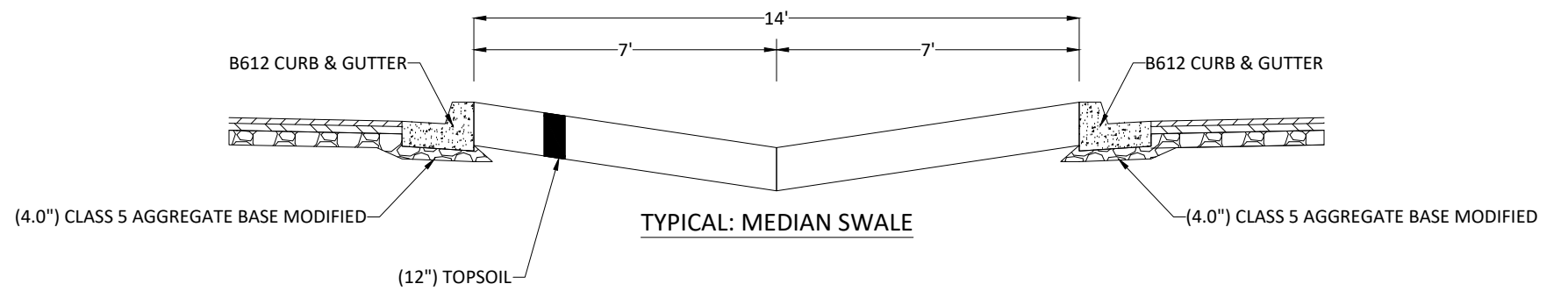
CONDUIT INSTALLATION GUIDE

REQUIREMENTS

1. CONDUIT(S) SHALL BE 4" PVC SCHEDULE 40 UNLESS OTHERWISE NOTED.
2. DEPTH OF CONDUIT(S) SHALL BE 36" TO 42"
3. EXTEND CONDUIT(S) A MINIMUM OF 48" BEYOND CURB AND MARK ENDS WITH A 2X2 MARKING POST.
4. IF MULTIPLE CONDUIT(S) ARE NEEDED, THEY SHALL BE SEPARATED BY A MINIMUM OF 12".
5. AT STREET INTERSECTIONS, INSTALL THE CONDUIT(S) IN LINE WITH UTILITY TRENCH LINE WHICH IS 7' FROM LOT LINE.

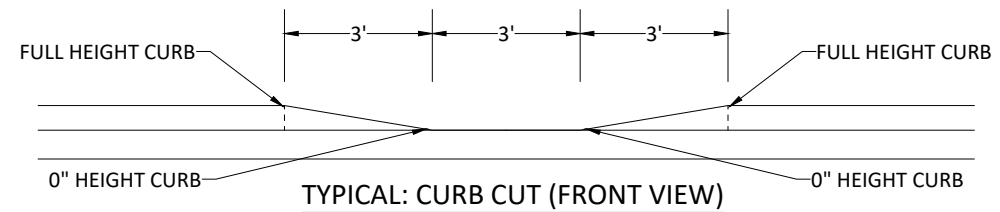
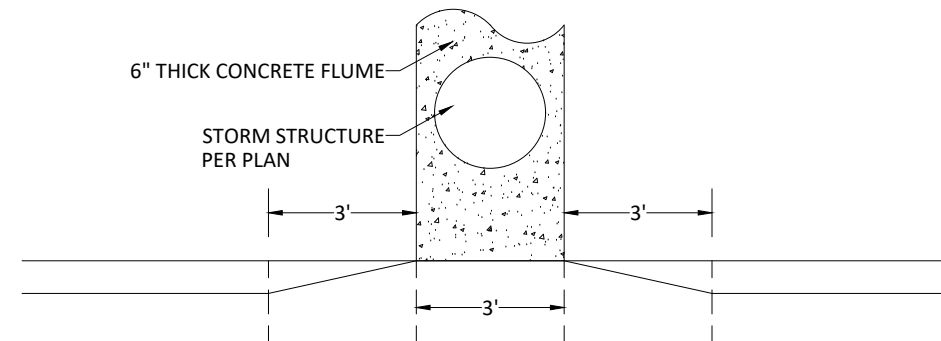
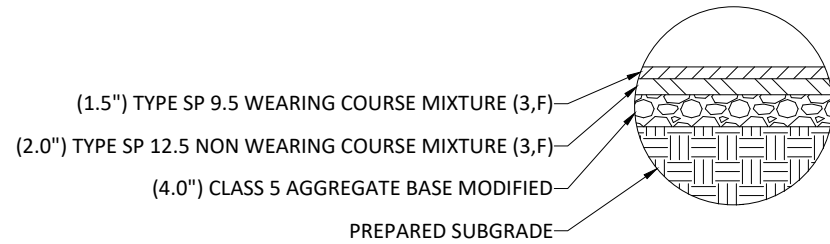
CONDUIT INSTALLATION
N.T.S.

APPROVED: 4 - 2016		STANDARD DETAILS: CONDUIT INSTALLATION
	CITY PLATE No. UTL-3	



NOTE: NOT TO SCALE

PARKING LOT PAVEMENT SECTION



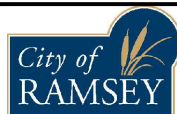
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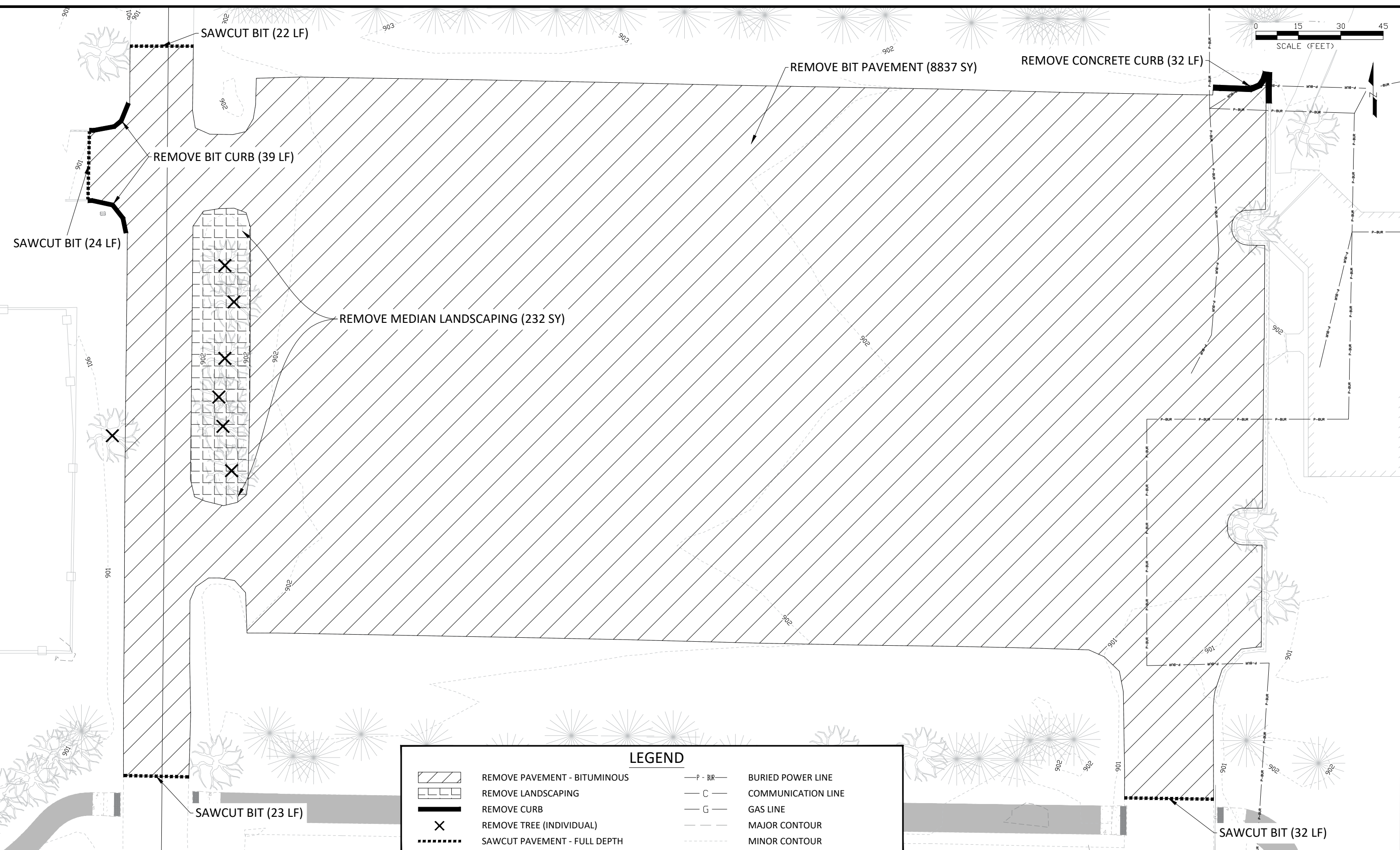
DESIGNED BY: JJF	DATE: 07/21/23
DRAWN BY: JJF	FILE: 23-02
CHECKED BY: JJF	



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DETAILS

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CITY OF RAMSEY, MINNESOTA



LEGEND	
	REMOVE PAVEMENT - BITUMINOUS
	REMOVE LANDSCAPING
	REMOVE CURB
	REMOVE TREE (INDIVIDUAL)
	SAWCUT PAVEMENT - FULL DEPTH
	BURIED POWER LINE
	COMMUNICATION LINE
	GAS LINE
	MAJOR CONTOUR
	MINOR CONTOUR

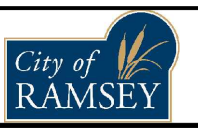
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 DRAWN BY: JJF
 CHECKED BY: JJF

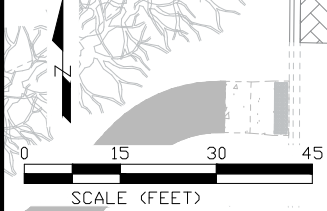
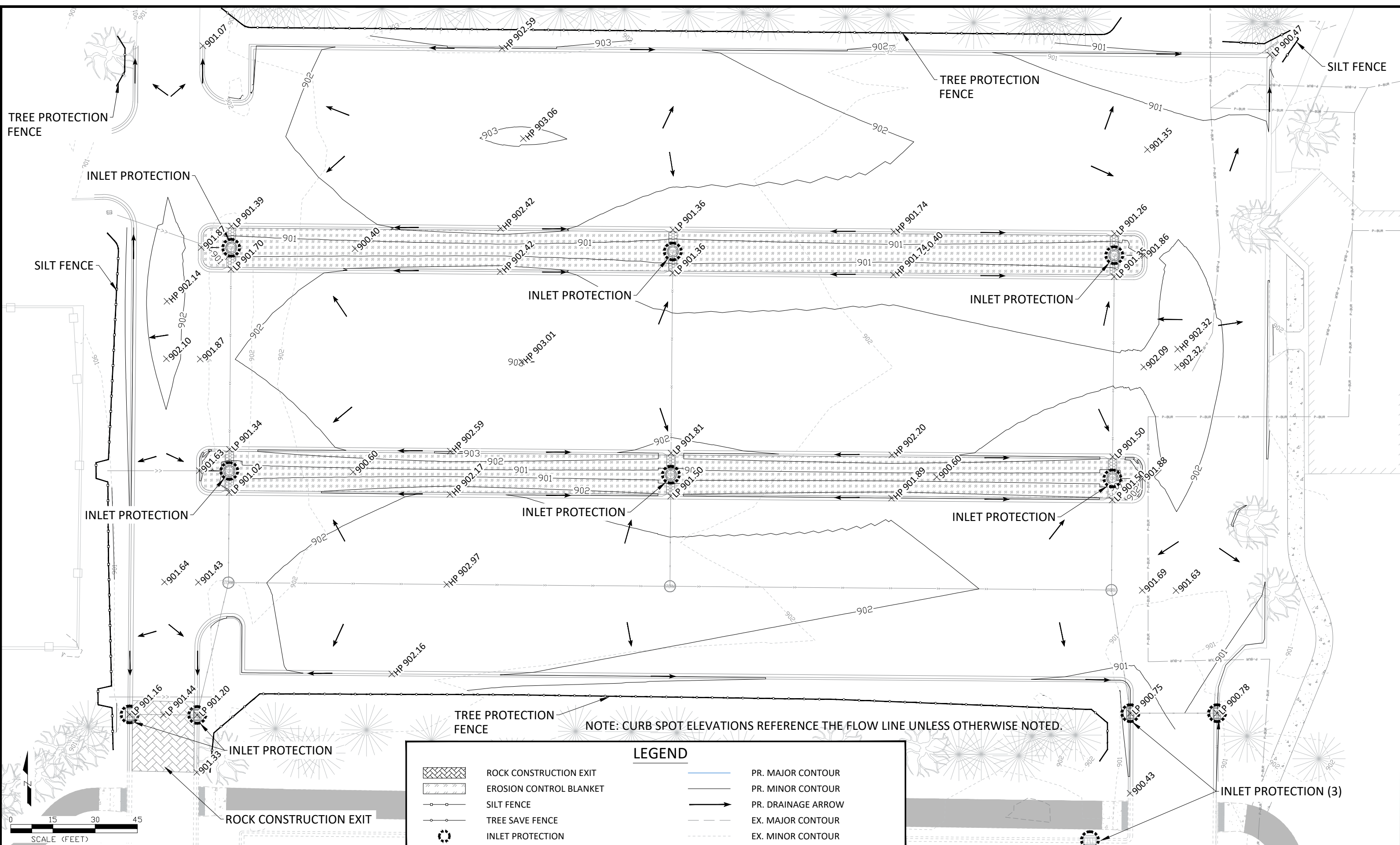
DATE: 07/21/23
 FILE: 23-02



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

EXISTING CONDITIONS & REMOVALS

CENTRAL PARK MAIN PARKING LOT RECONSTRUCTION
 CITY PROJECT NO. 23-02
 CITY OF RAMSEY, MINNESOTA



LEGEND	
	ROCK CONSTRUCTION EXIT
	EROSION CONTROL BLANKET
	SILT FENCE
	TREE SAVE FENCE
	INLET PROTECTION
	PR. MAJOR CONTOUR
	PR. MINOR CONTOUR
	PR. DRAINAGE ARROW
	EX. MAJOR CONTOUR
	EX. MINOR CONTOUR

DATE	REVISION

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Joe Feriancek
 JOE FERIANCEK
 Date 07/27/23 Lic. No. 57095

DESIGNED BY: JJF
 DRAWN BY: JJF
 CHECKED BY: JJF

DATE: 07/21/23
 FILE: 23-02

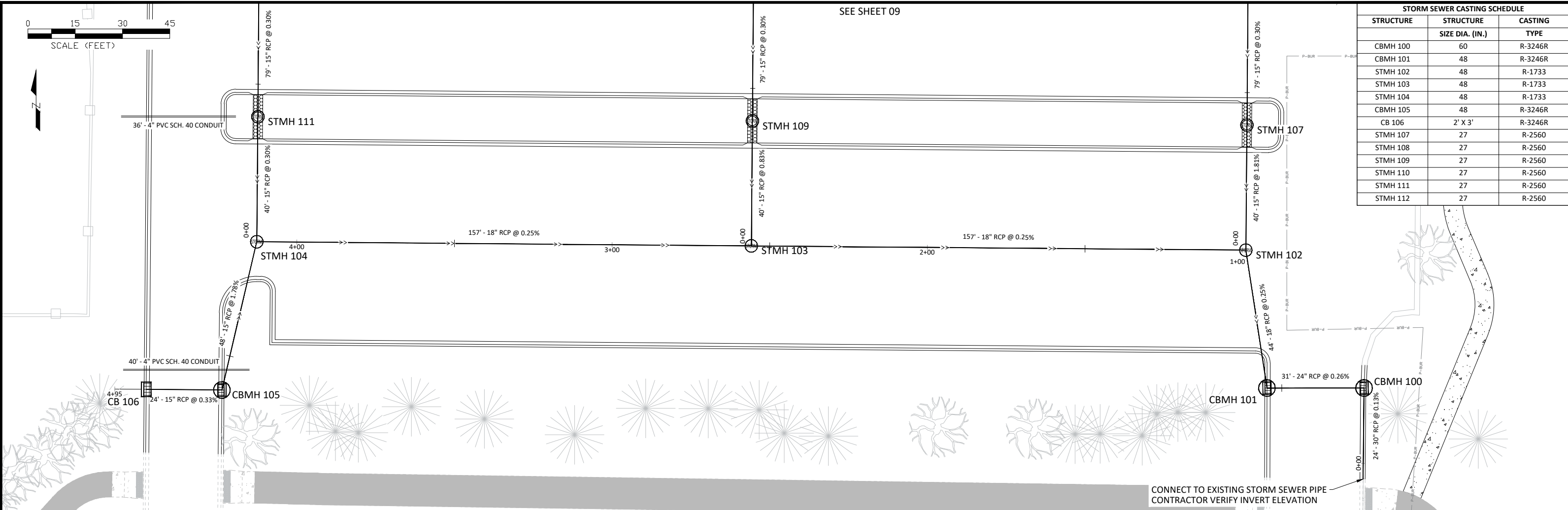
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GRADING & EROSION CONTROL

CENTRAL PARK MAIN PARKING LOT RECONSTRUCTION
 CITY PROJECT NO. 23-02
 CITY OF RAMSEY, MINNESOTA

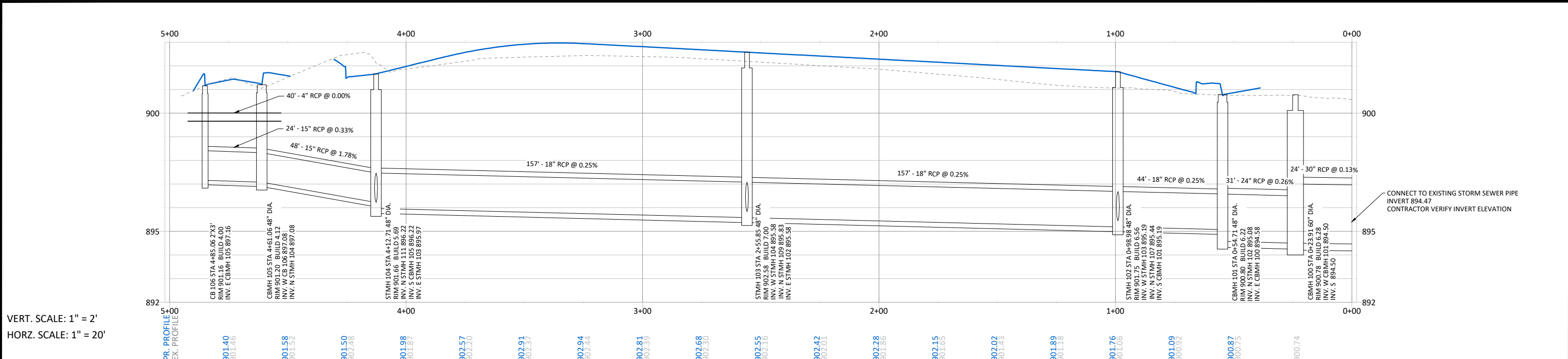


STORM SEWER CASTING SCHEDULE		
STRUCTURE	STRUCTURE SIZE DIA. (IN.)	CASTING TYPE
CBMH 100	60	R-3246R
CBMH 101	48	R-3246R
STMH 102	48	R-1733
STMH 103	48	R-1733
STMH 104	48	R-1733
CBMH 105	48	R-3246R
CB 106	2' X 3'	R-3246R
STMH 107	27	R-2560
STMH 108	27	R-2560
STMH 109	27	R-2560
STMH 110	27	R-2560
STMH 111	27	R-2560
STMH 112	27	R-2560



CONNECT TO EXISTING STORM SEWER PIPE
CONTRACTOR VERIFY INVERT ELEVATION

	PR. B-612 CONCRETE CURB & GUTTER		PR. STORM SEWER		PR. PVC CONDUIT
	PR. CONCRETE FLUME		PR. 2'X3' CATCH BASIN		
	PR. 6" CONCRETE WALK		PR. CATCH BASIN MANHOLE		
			PR. STORM MANHOLE		



VERT. SCALE: 1" = 2'
HORZ. SCALE: 1" = 20'

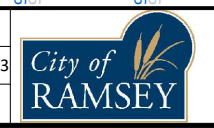
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STORM SEWER

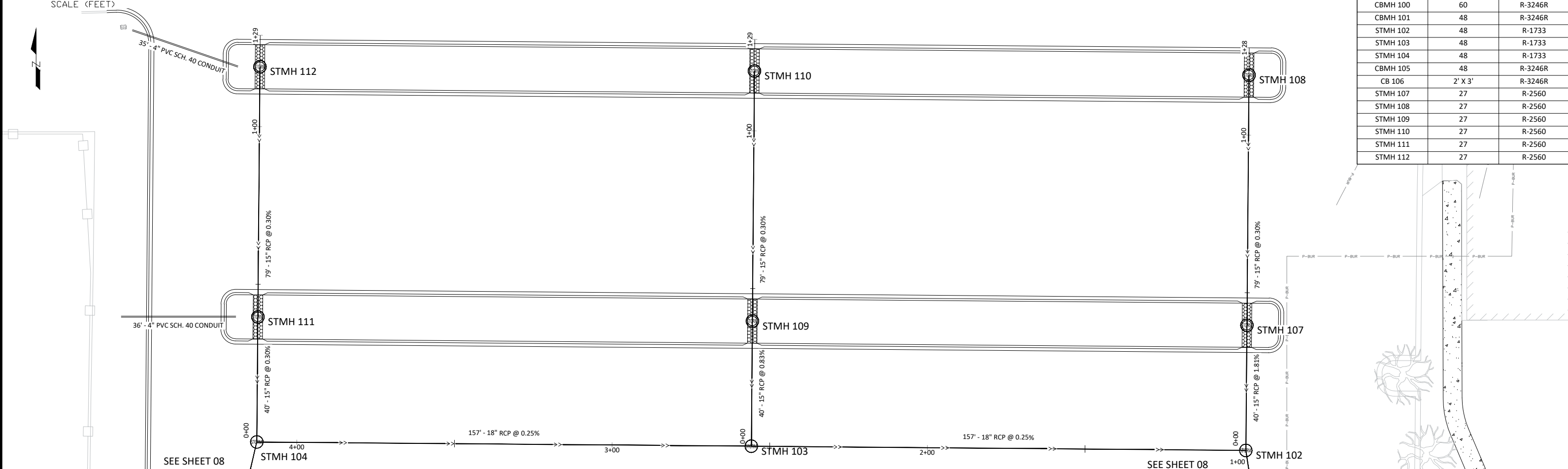
CENTRAL PARK MAIN PARKING LOT RECONSTRUCTION
 CITY PROJECT NO. 23-02
 CITY OF RAMSEY, MINNESOTA

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SCALE (FEET)

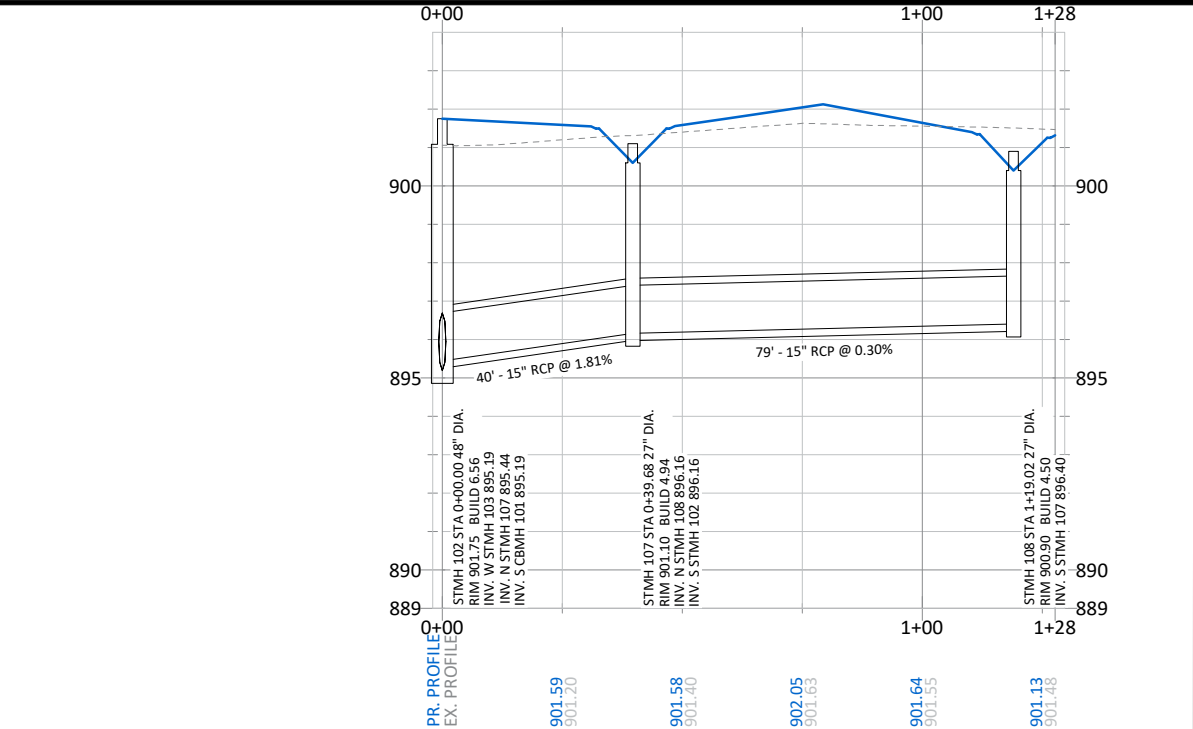
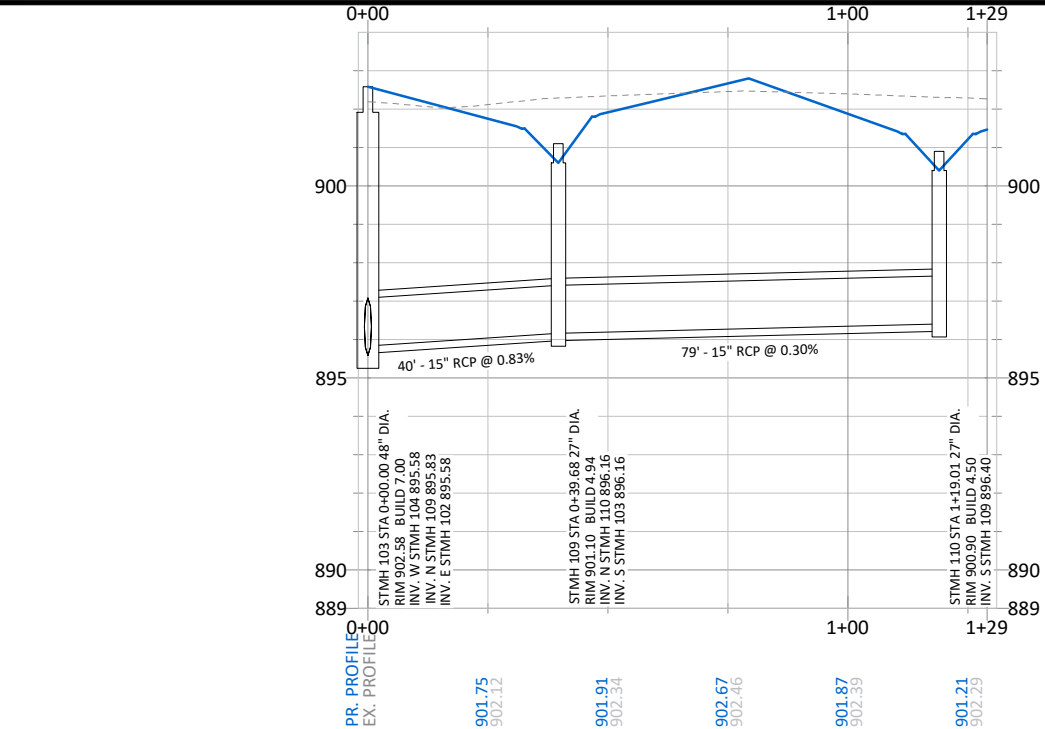
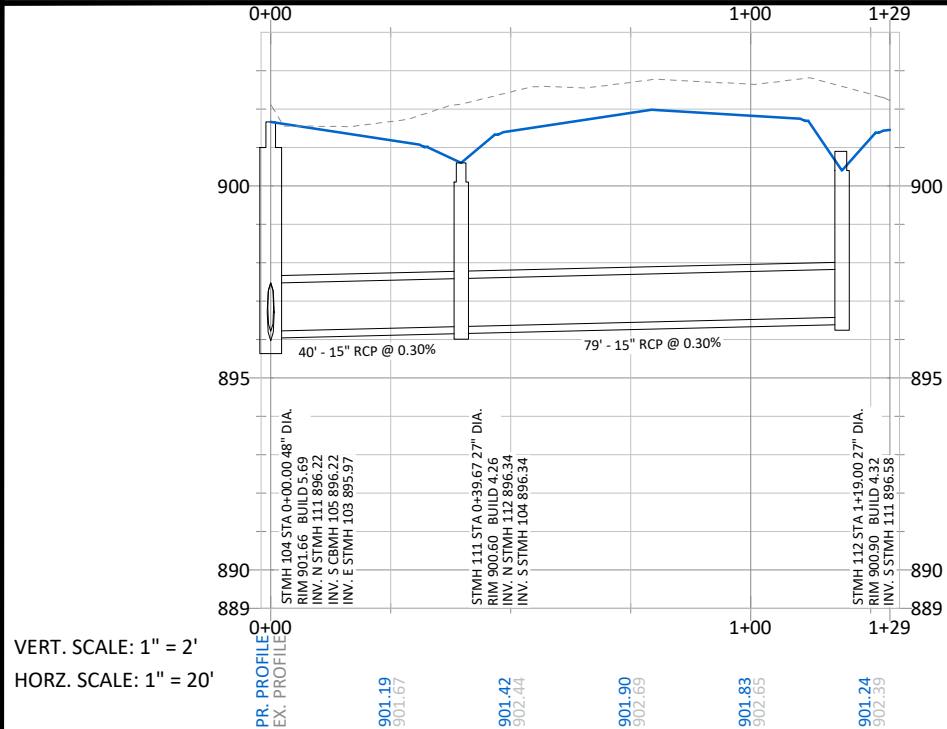


STORM SEWER CASTING SCHEDULE		
STRUCTURE	STRUCTURE SIZE DIA. (IN.)	CASTING TYPE
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CBMH 101	48	R-3246R
STMH 102	48	R-1733
STMH 103	48	R-1733
STMH 104	48	R-1733
CBMH 105	48	R-3246R
CB 106	2' X 3'	R-3246R
STMH 107	27	R-2560
STMH 108	27	R-2560
STMH 109	27	R-2560
STMH 110	27	R-2560
STMH 111	27	R-2560
STMH 112	27	R-2560



LEGEND

	PR. B-612 CONCRETE CURB & GUTTER		PR. STORM SEWER		PR. PVC CONDUIT
	PR. CONCRETE FLUME		PR. 2'X3' CATCH BASIN		
	PR. 6" CONCRETE WALK		PR. CATCH BASIN MANHOLE		
			PR. STORM MANHOLE		



VERT. SCALE: 1" = 2'
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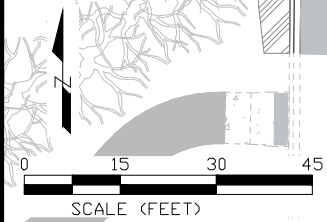
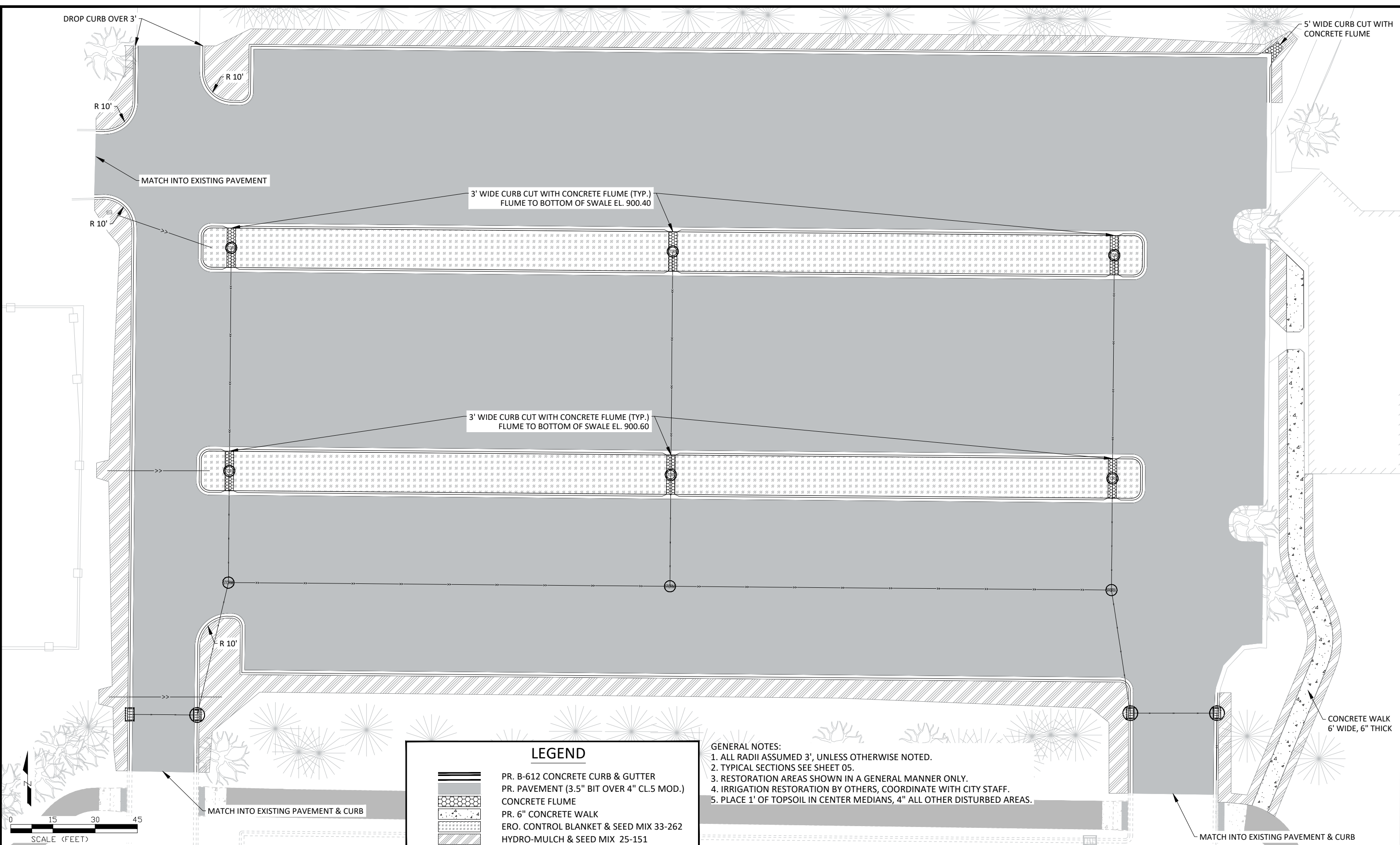
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


CITY OF RAMSEY
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STORM SEWER

CENTRAL PARK MAIN PARKING LOT RECONSTRUCTION
 CITY PROJECT NO. 23-02
 CITY OF RAMSEY, MINNESOTA



LEGEND

-  PR. B-612 CONCRETE CURB & GUTTER
-  PR. PAVEMENT (3.5" BIT OVER 4" CL.5 MOD.)
-  CONCRETE FLUME
-  PR. 6" CONCRETE WALK
-  ERO. CONTROL BLANKET & SEED MIX 33-262
-  HYDRO-MULCH & SEED MIX 25-151

- GENERAL NOTES:**
1. ALL RADII ASSUMED 3', UNLESS OTHERWISE NOTED.
 2. TYPICAL SECTIONS SEE SHEET 05.
 3. RESTORATION AREAS SHOWN IN A GENERAL MANNER ONLY.
 4. IRRIGATION RESTORATION BY OTHERS, COORDINATE WITH CITY STAFF.
 5. PLACE 1" OF TOPSOIL IN CENTER MEDIANS, 4" ALL OTHER DISTURBED AREAS.

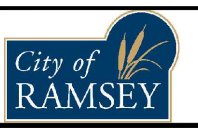
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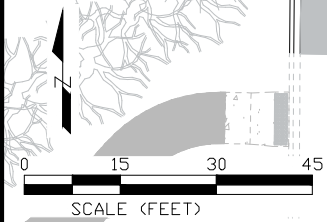
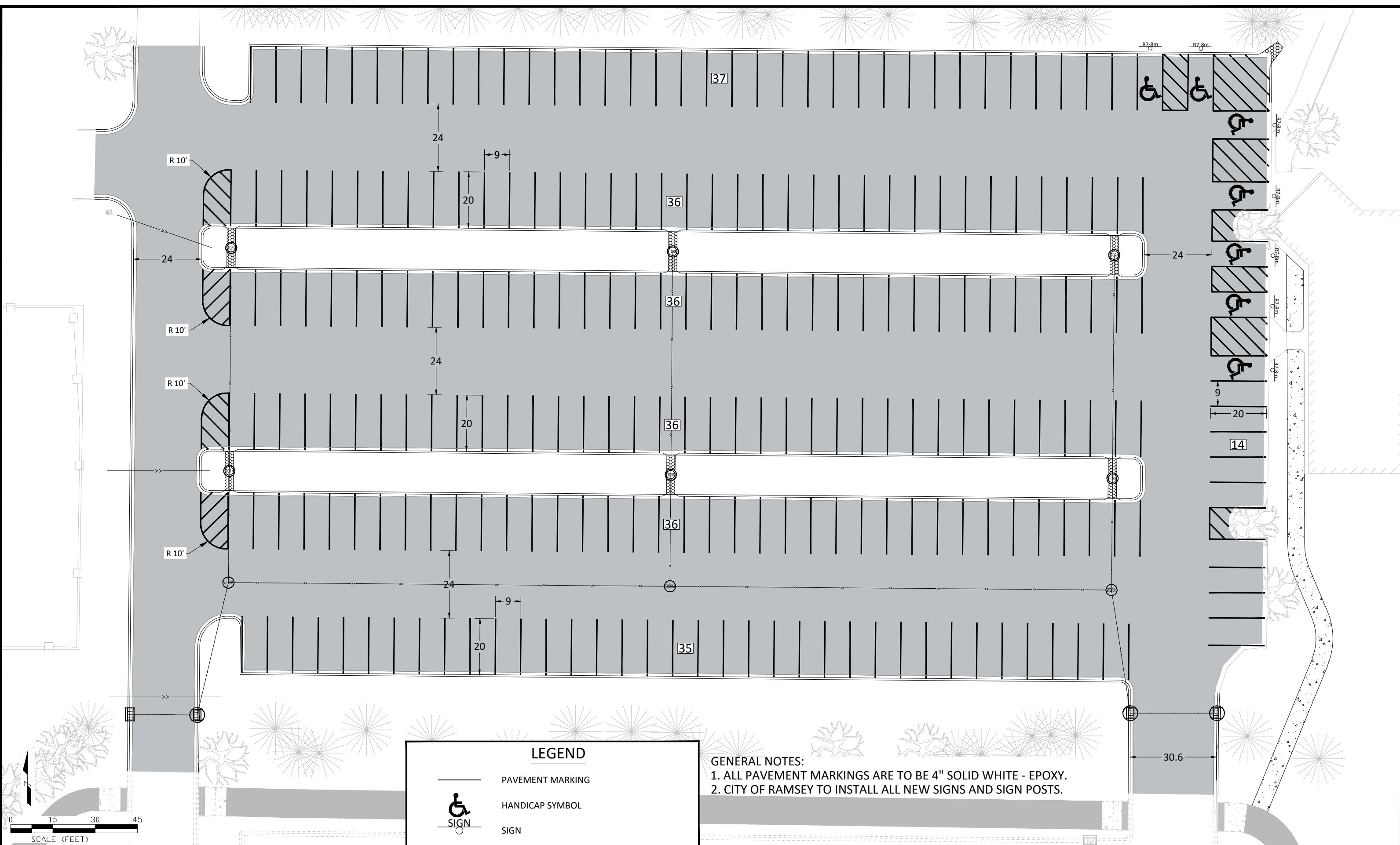
DATE: 07/21/23
 FILE: 23-02



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

RESTORATION

CENTRAL PARK MAIN PARKING LOT RECONSTRUCTION
 CITY PROJECT NO. 23-02
 CITY OF RAMSEY, MINNESOTA



LEGEND	
	PAVEMENT MARKING
	HANDICAP SYMBOL
	SIGN

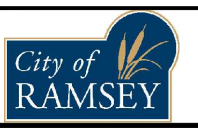
GENERAL NOTES:
 1. ALL PAVEMENT MARKINGS ARE TO BE 4" SOLID WHITE - EPOXY.
 2. CITY OF RAMSEY TO INSTALL ALL NEW SIGNS AND SIGN POSTS.

DATE	REVISION

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 Date 07/27/23 Lic. No. 57095

DESIGNED BY: JJF
 DRAWN BY: JJF
 CHECKED BY: JJF
 DATE: 07/21/23
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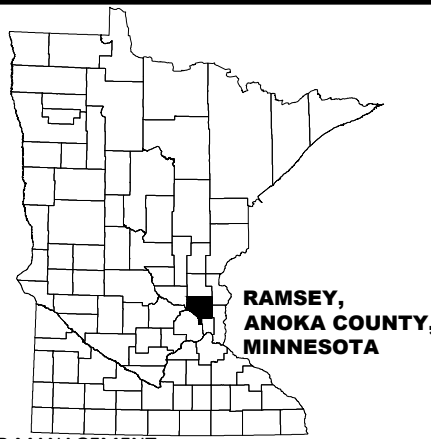
PAVEMENT MARKING & SIGNAGE

CENTRAL PARK MAIN PARKING LOT RECONSTRUCTION
 CITY PROJECT NO. 23-02
 CITY OF RAMSEY, MINNESOTA

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

CENTRAL PARK MAIN PARKING LOT RECONSTRUCTION

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, Parking Lot Construction, and Permanent Stabilization.

Project Description: This project consists of reconstruction of 1.83 acres of existing bituminous parking lot. Includes installation of new concrete curb and gutter, including 2 lowered medians to collect storm water runoff. The collected runoff will be collected and routed to the existing 161st Avenue storm sewer system, which carries runoff to a pond on the south side of 161st Avenue within drainage & utility easement. There is no outlet for the pond, which will allow storm water runoff to infiltrate into the ground. There is no change to the outfall location of the storm water runoff proposed with this project.

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	BRUCE WESTBY, PE	763-433-9825
SWPPP DESIGNER:	CITY OF RAMSEY	JOE FERIANCEK, PE	763-433-9893
CONTRACTOR:			
STIE 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 pavement.
- Rough grade site.
- Furnish & install concrete curb and gutter and 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?
TROTT BROOK	RIVER	YES	YES	YES

IMPAIRMENTS: DO; FISHSBIO; INERTBIO

PROJECT AREAS:

Total project size (disturbed area) =	2.31 acres
Existing area of impervious surface =	1.83 acres
Post construction area of impervious surface =	1.92 acres
New impervious surface area created =	0.09 acres

Planned construction start date: September 2023
Planned construction completion date: November 2023

PROJECT LOCATION:

County: ANOKA Township: 32 Range: 25 Section: 16 Latitude: 45.263662 Longitude: -93.46842

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

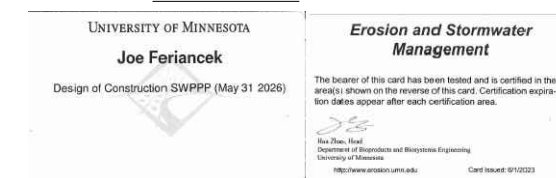
LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN:

DESCRIPTION	LOCATION
TEMPORARY EROSION CONTROL MEASURES	SHEET No. 07
FINAL STABILIZATION	SHEET No.10
STORM SEWER TABULATION	SHEETS No. 08 - 09
EROSION AND SEDIMENT CONTROL DETAILS	SHEETS No. 03 - 05

EROSION AND SEDIMENT CONTROL QUANTITIES:

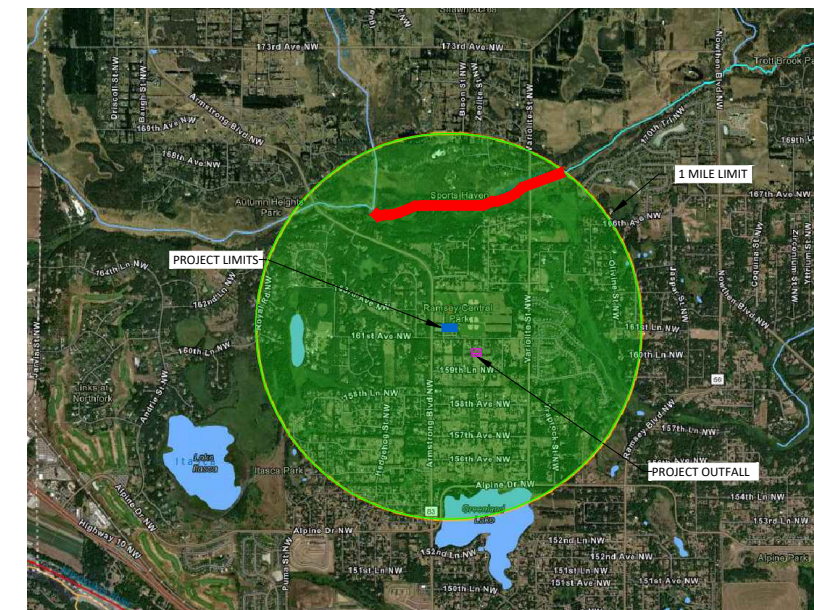
DESCRIPTION	QUANTITY
SILT FENCE TYPE MS	239 LF
TREE SAVE FENCE	697 LF
INLET PROTECTION	11 EA
EROSION BLANKET CATEGORY 25	1009 SY
CONSTRUCTION EXIT	1 EA

CERTIFICATION:



IMPAIRED WATERS SEARCH: 1 MILE RADIUS

LEGEND	
	PROJECT LIMITS
	1 MILE LIMIT
	RECEIVING WATER
	IMPAIRED WATER

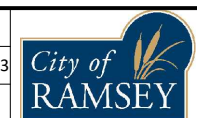


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DRAWN BY:	JJF
CHECKED BY:	JJF



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

SWPPP

CENTRAL PARK MAIN PARKING LOT RECONSTRUCTION
CITY PROJECT NO. 23-02
CITY OF RAMSEY, MINNESOTA

SHEET 12 OF 13 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. Grade the site.
7. Install utilities; backfill excavation, grade and compact as required.
8. Furnish & install concrete curb and gutter.
9. Furnish & install aggregate base, base course of bituminous pavement
10. 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:

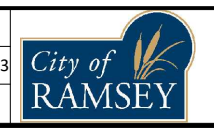
1. The permittee(s) (either the owner or operator, whoever is identified in the SWPPP) must routinely inspect the construction site once every seven (7) days during active construction and within 24 hours after a rainfall event greater than 0.5-inches in 24 hours. Following an inspection that occurs 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

Joe Feriancek
JOE FERIANCEK
 Date 07/27/23 Lic. No. 57095

DESIGNED BY:	JJF	DATE:	07/21/23
DRAWN BY:	JJF	FILE:	23-02
CHECKED BY:	JJF		



CITY OF RAMSEY
 7550 SUNWOOD DRIVE
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SWPPP

CENTRAL PARK MAIN PARKING LOT RECONSTRUCTION
CITY PROJECT NO. 23-02
 CITY OF RAMSEY, MINNESOTA