

**MINNESOTA DEPARTMENT OF TRANSPORTATION
CITY OF MENDOTA HEIGHTS
STATE AID PROJECT NO. 140-101-009
LOCAL PROJECT NO.: 201107
MARIE AVENUE REHABILITATION**

CONSTRUCTION PLAN FOR: BITUMINOUS MILLING, BITUMINOUS PAVING, STORM SEWER, CURB AND GUTTER REPAIR, WATER MAIN REPLACEMENT, AND APPURTENANT WORK

LOCATED ON MARIE AVENUE FROM DODD ROAD TO DELAWARE AVENUE

MARIE AVENUE
S.A.P. 140-101-009

GROSS LENGTH	3,691 FEET	0.70 MILES
BRIDGES-LENGTH	0 FEET	0 MILES
EXCEPTIONS-LENGTH	0 FEET	0 MILES
NET LENGTH	3,691 FEET	0.70 MILES

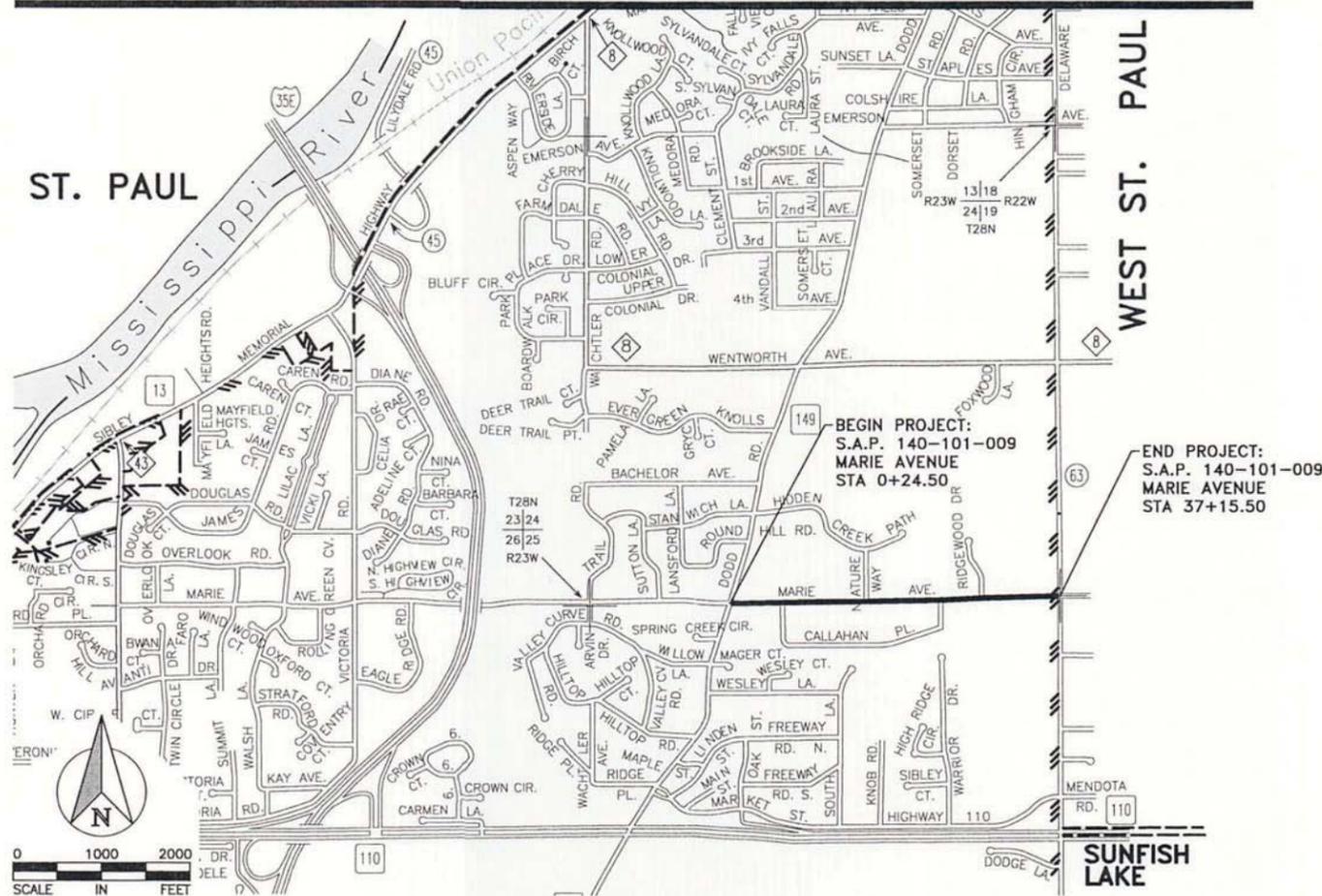
TYPICAL PLAN LEGEND

	EXISTING	PROPOSED
RIGHT OF WAY	---	---
LOT LINE	- - - - -	- - - - -
CENTERLINE	---	---
CURB & GUTTER	---	---
RETAINING WALL	---	---
BUILDING	▭	▭
BITUMINOUS	▭	▭
CONCRETE	▭	▭
GRAVEL	▭	▭
FENCE	-x-x-x-	-x-x-x-
POND	○	○
TREE	○	○
TREE LINE	---	---
BRUSH LINE	---	---
LANDSCAPE EDGING	○	○
MAILBOX	□	□
STREET SIGN	▲	▲
SANITARY SEWER	○	○
SANITARY STRUCTURES	○	○
STORM SEWER	○	○
STORM STRUCTURES	○	○
WATER MAIN	○	○
FIRE HYDRANT	○	○
GATE VALVE	×	×
GAS LINE	---	---
GAS GATE VALVE	×	×
OVERHEAD ELECTRICAL	OE	OE
UNDERGROUND ELECTRICAL	UE	UE
UNDERGROUND CABLE	UTV	UTV
UNDERGROUND TELEPHONE	UT	UT
UNDERGROUND FIBER OPTIC	FO	FO
UTILITY POLE	*	*
UTILITY BOX/PEDESTALS	□	□
SOIL BORING LOCATIONS	SB-1	SB-1

TYPICAL PLAN SCALES UNLESS OTHERWISE NOTED:

PLAN SHEETS	0 50 100 SCALE IN FEET
REMOVALS PLAN	0 30 60 SCALE IN FEET
CROSS SECTIONS	0 10 20 SCALE IN FEET

VICINITY MAP



PROJECT LOCATION



CITY: MENDOTA HEIGHTS
COUNTY: DAKOTA
DISTRICT: METRO DISTRICT

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

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF PRIVATE UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS TO DETERMINE THE TYPE AND LOCATION OF PRIVATE UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

GOVERNING SPECIFICATIONS

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION FOR CONSTRUCTION" DATED JULY 1, 2005 SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MN MUTCD, INCLUDING THE "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".

INDEX OF SHEETS

SHEET	TITLE
1	TITLE SHEET
2	STATEMENT OF QUANTITIES
3	STORM SEWER DETAILS AND CONSTRUCTION NOTES
4-6	MARIE AVENUE WATER MAIN PLAN & PROFILE
7	TREE REMOVAL PLAN
8	GRADING PLAN AND STORM SEWER PLAN & PROFILE
9	RETAINING WALL PLAN & PROFILE
10-11	STRIPING PLAN

THIS PLAN CONTAINS 11 SHEETS.

DESIGN DESIGNATION

MENDOTA HEIGHTS ROAD
S.A.P. 140-101-009

ADT (PRESENT) 2012:	2550
ADT (PROJECTED) 2032:	3825
HCA DT (PROJECTED) 2032:	151 - 300
SOIL FACTOR:	100
TON DESIGN:	9 TON

FUNCTIONAL CLASSIFICATION:	COLLECTOR IN URBAN BOUNDARY
NUMBER OF TRAFFIC LANES:	2
NUMBER OF PARKING LANES:	1

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

Ryan E. Ruzek
RYAN E. RUZEK
DATE: 3/30/2012 LICENSE NUMBER: 44990

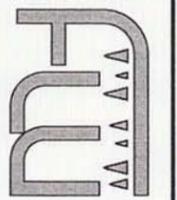
LOCAL AGENCY SIGNATURES:

[Signature]
APPROVED: CITY OF MENDOTA HEIGHTS DATE 3/30/2012

STATE AID APPROVALS:

[Signature] DATE 4-3-12
DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE-AID RULES/POLICY
[Signature] DATE 4-3-12
STATE AID ENGINEER: APPROVED FOR STATE AID FUNDING

CITY OF MENDOTA HEIGHTS
ENGINEERING DEPARTMENT
1101 VICTORIA CURVE
MENDOTA HEIGHTS, MN 55118
PH: (651)452-1850
FAX: (651)452-1366



MARIE AVENUE REHABILITATION
(BETWEEN DODD ROAD AND
DELAWARE AVENUE)

IMP. NO.
JOB NO. 201107

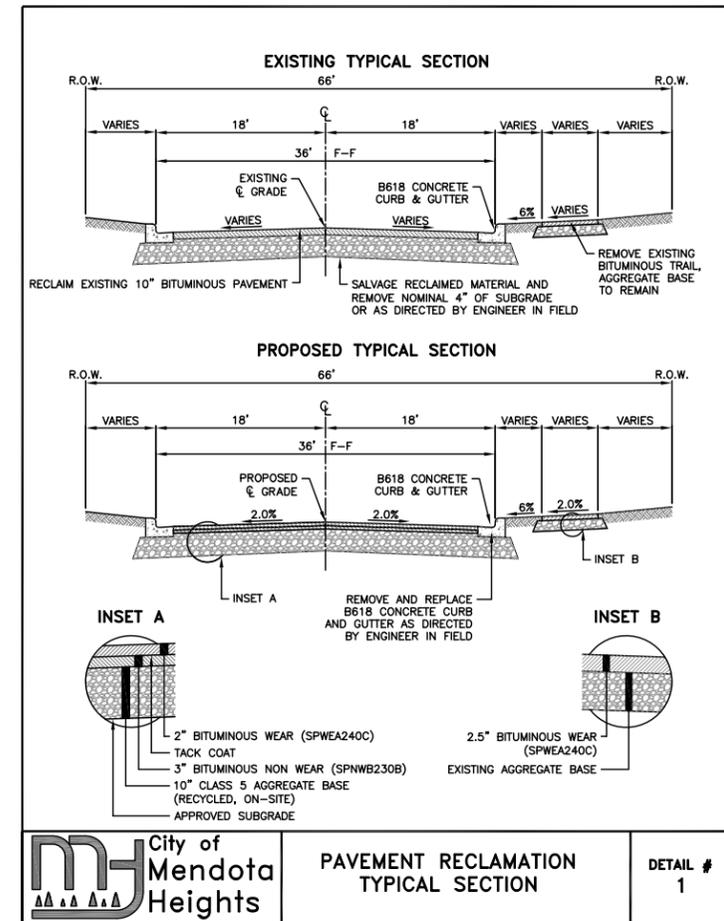
SHEET 1 OF 11

S.A.P. 140-101-009

Apr 11, 2012 8:56am - X:\2011 Projects\MH201107_Marie Ave Rehab (East of Dodd)\Design Drawings & Work Product\MH201107-02QT.dwg

ESTIMATED QUANTITIES: SCHEDULE 'A' - STREET REHABILITATION

SPEC.			PROJECT TOTAL	S.A.P. 140-101-009, ROADWAY MARIE AVENUE	LOCAL JOB 201107, ROADWAY MARIE AVENUE	LOCAL JOB 201107 CURB REPLACEMENT & TRAILS	LOCAL JOB 201107 STORM SEWER	LOCAL JOB 201107 WATER MAIN
ITEM NO.	NO.	ITEM DESCRIPTION	UNIT	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1	2021.501	MOBILIZATION	L.S.	1	0.2	0.8		
2	2101.501	CLEARING	ACRE	0.6			0.6	
3	2101.506	GRUBBING	ACRE	0.6			0.6	
4	2101.602	TREE TRIMMING	Each	10		10		
5	2104.501	REMOVE CURB AND GUTTER	L.F.	3,450			3,450	
6	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT	S.Y.	80		80		
7	2104.505	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	S.Y.	196		196		
8	2104.505	REMOVE BITUMINOUS TRAIL	S.Y.	3,204			3,204	
9	2104.511	SAWING CONCRETE DRIVEWAY	L.F.	60		60		
10	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	L.F.	325		325		
11	2104.513	SAWING BITUMINOUS DRIVEWAY	L.F.	352		352		
12	2104.521	SALVAGE WOODEN FENCE	L.F.	24		24		
13	2104.603	REMOVE RETAINING WALL	L.F.	155		155		
14	2105.501	COMMON EXCAVATION-ROADWAY (P)	C.Y.	1,600		1,600		
15	2105.607	COMMON EXCAVATION (P)	C.Y.	820			820	
16	2105.507	SUBGRADE/AGGREGATE BASE CORRECTION EXCAVATION OUTSIDE THE AREA OF INFLUENCE OF CONTRACTOR INSTALLED UTILITY TRENCHES (SEE SPECIAL CONDITIONS - SECTION 2)	C.Y.	350		350		
17	2105.522	SELECT GRANULAR BORROW (CV)	C.Y.	350		350		
18	2105.526	SELECT TOPSOIL BORROW (LV)	C.Y.	316			316	
19	2112.604	STREET SUBGRADE PREPARATION	S.Y.	14,400		14,400		
20	2112.604	BASE PREPARATION (SEE SPECIAL CONDITIONS - SECTION 2)	S.Y.	14,400		14,400		
21	2112.604	TRAIL SUBGRADE PREPARATION	S.Y.	3,204		3,204		
22	2123.501	COMMON LABOR	HR	10		10		
23	2123.509	DOZER WITH OPERATOR	HR	10		10		
24	2123.514	2 CU YD FRONT END LOADER WITH OPERATOR	HR	10		10		
25	2123.610	SKID STEER (BOBCAT) WITH OPERATOR	HR	10		10		
26	2123.610	BACK HOE WITH OPERATOR	HR	10		10		
27	2211.501	AGGREGATE BASE CLASS 5 (VIRGIN, 100% CRUSHED), IN PLACE	TON	1,086		891	195	
28	2211.501	AGGREGATE BASE CLASS 5 (RECYCLED, ON-SITE), IN PLACE	TON	8,100		8,100		
29	2211.501	1 1/2" SCREENED CLEAN AGGREGATE BASE	TON	250		250		
30	2232.501	MILL BITUMINOUS SURFACE (1.5" NOMINAL DEPTH) (PRIOR TO WEAR COURSE)	S.Y.	108		108		
31	2331.604	BITUMINOUS PAVEMENT RECLAMATION	S.Y.	14,400		14,400		
32	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	1,440	1,440			
33	2360.501	TYPE SPWEA240C WEARING COURSE, IN-PLACE	TON	1,782	1,732			
34	2360.502	TYPE SPNWB230B NON WEARING COURSE, IN-PLACE	TON	2,795	2,329			
35	2360.503	3" TYPE SPWEA230B WEARING COURSE FOR DRIVEWAYS	S.Y.	196		196		
36	2360.609	2.5" TYPE SPWEA240C WEAR COURSE FOR BITUMINOUS TRAIL, IN-PLACE	TON	487		487		
37	2451.607	GRANULAR BACKFILL (CV)	C.Y.	2,277				2,277
38	2501.515	36" RC PIPE APRON	Each	2			2	
39	2503.541	36" RC PIPE SEWER DESIGN 3006 CLASS III	L.F.	64			64	
40	2504.602	HYDRANT INSTALLATION	Each	5				5
41	2504.602	6" GATE VALVE INSTALLATION	Each	3				3
42	2504.602	8" GATE VALVE INSTALLATION	Each	9				9
43	2504.602	REPAIR SERVICE STOP BOX	Each	1				1
44	2504.602	ADJUST SERVICE STOP BOX	Each	33				33
45	2504.602	ADJUST VALVE BOX, INCLUDING PARTS	Each	5				5
46	2504.602	WATER UTILITY HOLE	Each	4				4
47	2504.603	6" DI WATER MAIN REPLACEMENT	L.F.	108				108
48	2504.603	8" DI WATER MAIN REPLACEMENT	L.F.	3,780				3,780
49	2504.604	2" INSULATION	S.Y.	119				119
50	2504.608	DUCTILE AND GREY IRON FITTINGS	LB	2,585				2,585
51	2506.502	CONSTRUCT OUTLET CONTROL STRUCTURE (60"), IN-PLACE	Each	2			2	
52	2506.602	SALVAGE & REINSTALL CATCH BASIN CASTING, REPLACE RINGS	Each	22		22		
53	2506.602	SALVAGE & REINSTALL MANHOLE CASTING, REPLACE RINGS	Each	28		28		
54	2511.502	RANDOM RIPRAP, CLASS III	TON	96			96	
55	2521.501	4" CONCRETE WALK	S.F.	595		595		
56	2531.501	CONCRETE CURB & GUTTER DESIGN B618	L.F.	3,450		3,450		
57	2531.507	6" CONCRETE DRIVEWAY PAVEMENT	S.Y.	80		80		
58	2531.603	REMOVE AND REPLACE CURB & GUTTER - B618	L.F.	972		972		
59	2531.618	TRUNCATED DOME PANEL	S.F.	96		96		
60	2540.602	RELOCATE MAIL BOX	Each	3		3		
61	2540.604	SALVAGE AND REINSTALL PAVER DRIVEWAY	S.Y.	22		22		
62	2540.618	INSTALL RETAINING WALL	S.F.	881		881		
63	2557.603	INSTALL FENCE	L.F.	150		150		
64	2563.601	TRAFFIC CONTROL	L.S.	1.0	0.2	0.8		
65	2573.502	SILT FENCE, TYPE HEAVY DUTY	L.F.	500			500	
66	2573.602	STORM DRAIN INLET PROTECTION DURING CONSTRUCTION	Each	25		25		
67	2575.505	SODDING TYPE LAWN	S.Y.	1,917			1,917	
68	2575.505	SEED MIXTURE 350 WITH FIBER BLANKET	S.Y.	2,757			2,757	
69	2575.535	APPLICATION OF WATER FOR TURF, AFTER 30 DAYS	MG	100		100		
70	2582.501	PAVEMENT MESSAGE (RT ARROW) POLY PREF	Each	4		4		
71	2582.501	PAVEMENT MESSAGE (LT-THRU ARROW) POLY PREF	Each	4		4		
72	2582.502	4" SOLID LINE WHITE-EPOXY	L.F.	7,508		7,508		
73	2582.502	12" SOLID LINE WHITE-EPOXY	L.F.	535		535		
74	2582.502	4" BROKEN LINE WHITE-EPOXY	L.F.	339		339		
75	2582.502	4" DOUBLE SOLID LINE YELLOW-EPOXY	L.F.	1,944		1,944		



ESTIMATED PAVEMENT DEPTHS

STREET	BITUMINOUS (IN.)	CLASS 5 (IN.)	TREATMENT
MARIE AVENUE (DODD RD TO CONCORD WAY)	10	-	PAVEMENT RECLAMATION

ESTIMATED PAVEMENT DEPTHS OBTAINED FROM AS-BUILT PLANS

BASIS FOR QUANTITIES

BITUMINOUS:
WEAR COURSE MIXTURE: 150 LBS/CF
NON WEAR COURSE MIXTURE: 150 LBS/CF

AGGREGATE:
CLASS 5: 145 LBS/CF

TACK COAT:
0.05 GAL/SY

TURF ESTABLISHMENT:
SEED MIXTURE 350: 84.5 LBS/ACRE
FERTILIZER TYPE 2 (10-0-10): 300LBS/ACRE

REVISION DESCRIPTION	DATE	DESIGN BY: MJA	PLAN BY: MJA	CHECKED BY: RER	
SPRWS REVIEW: NOT FOR CONSTRUCTION	02-09-12				
INDOT REVIEW/NOT FOR CONSTRUCTION	02-27-12				
INDOT REVIEW/BID ISSUE	03-30-12				

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

RYAN E. RUZICK
 REG. NO.: 44990
 DATE: 3/30/12

City of Mendota Heights

PAVEMENT RECLAMATION TYPICAL SECTION
DETAIL # 1

CITY OF MENDOTA HEIGHTS ENGINEERING DEPARTMENT
 1101 VICTORIA CURVE
 MENDOTA HEIGHTS, MN 55118
 PH: (651)452-1850
 FAX: (651)452-1366

MARIE AVENUE REHABILITATION (BETWEEN DODD ROAD AND DELAWARE AVENUE)

STATEMENT OF QUANTITIES

IMP. NO.
 JOB NO. 201107

SHEET 2 of 11

S.A.P. 140-101-009

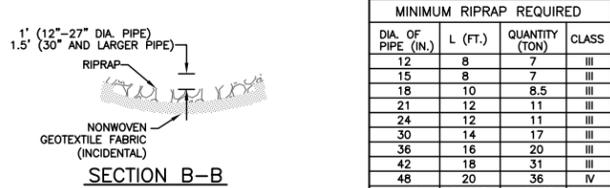
STANDARD PLATES

THE FOLLOWING STANDARD PLATES AS APPROVED BY THE FHWA SHALL APPLY:

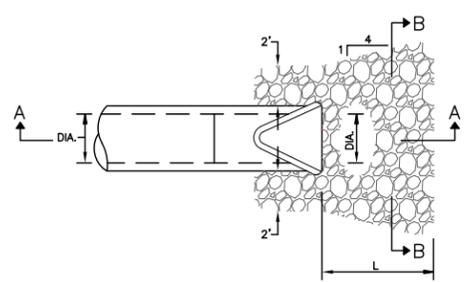
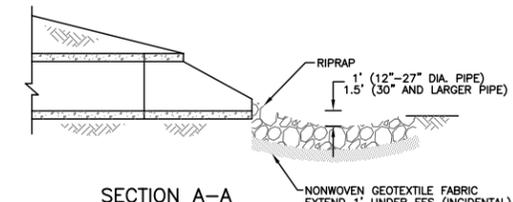
PLATE NO.	DESCRIPTION
3000L	REINFORCED CONCRETE PIPE (5 SHEETS)
3006G	GASKET JOINT FOR RC PIPE (2 SHEETS)
4011E	PRECAST CONCRETE BASE
4026A	CONCRETE ENCASED CONCRETE ADJUSTING RINGS
4108F	ADJUSTING RINGS
4180J	MANHOLE OR CATCH BASIN STEP
7036G	PEDESTRIAN CURB RAMP PERPENDICULAR DESIGN
7038A	DETECTABLE WARNING SURFACE TRUNCATED DOMES
7100H	CONCRETE CURB AND GUTTER, DESIGN B
7111J	INSTALLATION AND REINFORCEMENT OF CATCH BASIN CASTINGS
8000I	STANDARD BARRICADES

THE FOLLOWING STANDARD PLATES AS APPROVED BY SPRWS SHALL APPLY:

PLATE NO.	DESCRIPTION
D-2	VALVE BOX & INSTALLATION
D-3	HYDRANT INSTALLATION
D-5	WATER MAIN INSULATION DETAIL
D-10	TYPICAL WATER MAIN OFFSETS



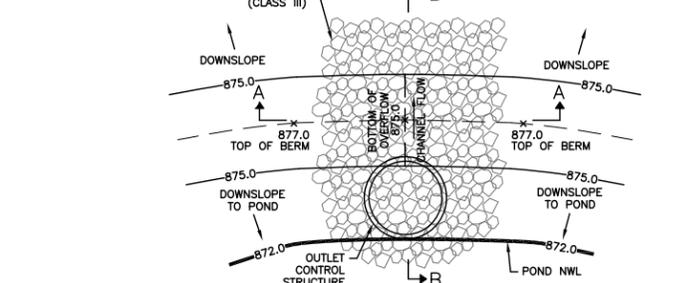
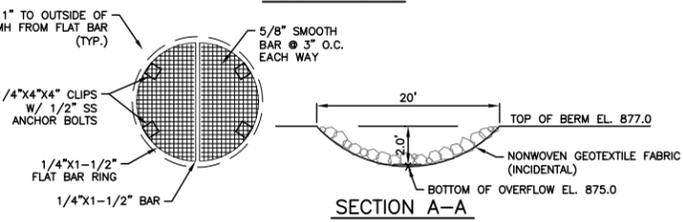
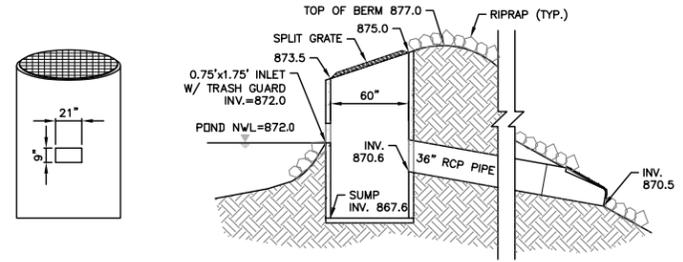
MINIMUM RIPRAP REQUIRED			
DIA. OF PIPE (IN.)	L (FT.)	QUANTITY (TON)	CLASS
12	8	7	III
15	8	7	III
18	10	8.5	III
21	12	11	III
24	12	11	III
30	14	17	III
36	16	20	III
42	18	31	III
48	20	36	IV
>48	22-28	42-56	IV



City of Mendota Heights

RIPRAP DETAIL FOR FLARED END SECTION

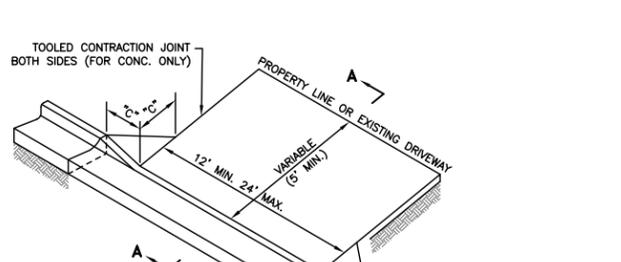
DETAIL # 4



City of Mendota Heights

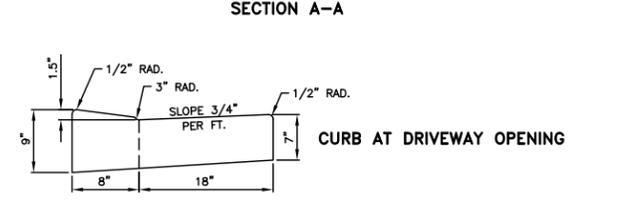
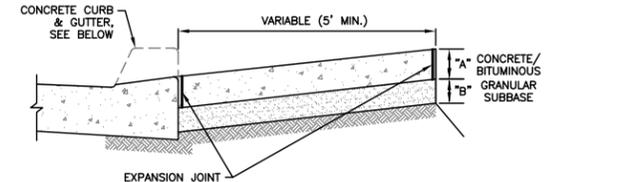
OUTLET CONTROL STRUCTURE AND RIPRAP OVERFLOW

DETAIL # 3



NOTE:
SPACE CONCRETE CONTROL JOINTS SUCH THAT NO PANEL IS GREATER THAN 64 SQUARE FEET.

	CONCRETE	BITUMINOUS
A	6'	3'
B	6'	6'
C	3'	3'



City of Mendota Heights

RESIDENTIAL DRIVEWAY

DETAIL # 1

STORM AND WATER MAIN NOTES

- PIPE LENGTHS SHOWN ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE OR END OF FLARED END SECTION.
- PIPE MATERIALS:
WATER MAIN 6" DIP CLASS 53
8" AND LARGER DIP CLASS 52
STORM SEWER RCP
- ALL CONNECTIONS TO CITY UTILITIES TO BE IN ACCORDANCE WITH CITY OF MENDOTA HEIGHTS STANDARDS AND DETAILS.
- ALL CONNECTIONS TO SAINT PAUL REGIONAL WATER SERVICES (SPRWS) UTILITIES TO BE IN ACCORDANCE WITH SPRWS STANDARDS AND DETAILS.
- ADJUST ALL STRUCTURES, PUBLIC AND PRIVATE, TO PROPOSED GRADES WHERE DISTURBED. COMPLY WITH ALL REQUIREMENTS OF UTILITY OWNERS. STRUCTURES BEING RESET TO PAVED AREAS TO MEET OWNERS REQUIREMENTS FOR TRAFFIC LOADING.
- VERIFY ALL CONNECTIONS TO EXISTING UTILITY SERVICES PRIOR TO CONSTRUCTION.
- CONTACT GOPHER STATE ONE CALL FOR EXISTING UTILITY LOCATIONS 48-HOURS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN LOCATED UTILITIES AND THE EXISTING CONDITIONS PLAN SHOULD BE NOTED AND FORWARDED TO THE ENGINEER.
- ANY CONNECTION TO AN EXISTING STRUCTURE MUST BE CORE DRILLED.
- MAINTAIN 8.0' COVER ON ALL NEW 8" WATER MAIN UNLESS NOTED.
- ALL WATER MAIN MATERIALS AND LABOR FOR RELOCATION OF WATER MAIN AND HYDRANTS SHALL BE COMPLETED BY THE CONTRACTOR. EXCAVATION, REMOVAL, TRENCH BOXES, BACKFILL AND RESTORATION BY CONTRACTOR.
- TRENCH BOXES SIZED TO FIT THE WORK ARE REQUIRED TO MINIMIZE REMOVALS. NO ADDITIONAL COMPENSATION SHALL BE MADE FOR FURNISHING TRENCH BOXES.
- COORDINATE WATER MAIN EXCAVATION ACTIVITIES WITH SPRWS A MINIMUM OF 7 DAYS PRIOR TO WORK ENSUING.
- MAINTAIN MINIMUM 1.25' COVER OVER ALL RCP PIPES IN RIGID PAVEMENT AND MINIMUM 1.75' COVER OVER ALL RCP PIPES IN FLEXIBLE PAVEMENT.

CONSTRUCTION NOTES

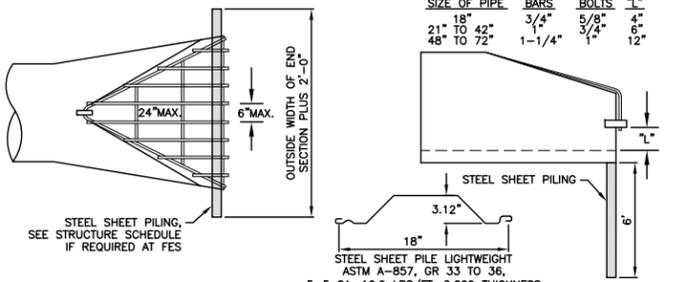
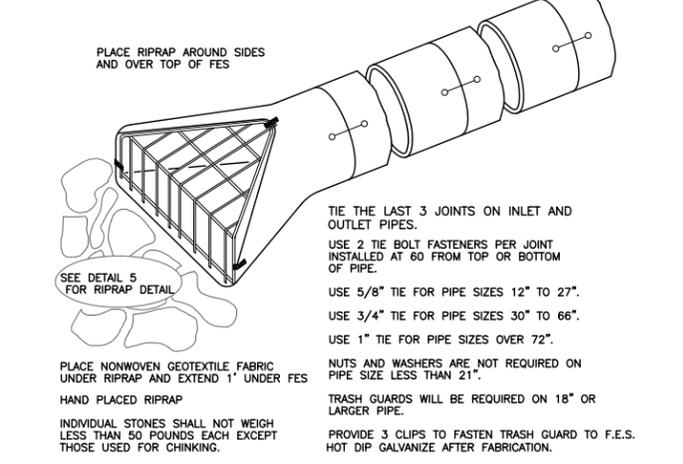
- PROVIDE A FULL DEPTH SAWCUT WHERE PLACING NEW PAVEMENT NEXT TO INPLACE PAVEMENT TO ENSURE A UNIFORM JOINT. ALL LONGITUDINAL SAWCUTS SHALL BE PLACED AT THE INSIDE EDGE OF PROPOSED LANE LINES. ALL TRANSVERSE SAWCUTS SHALL BE PERPENDICULAR TO PROPOSED LANE LINES. SAWCUT EDGES SHALL BE TACK-COATED PRIOR TO PAVING.
- THE CONTRACTOR SHALL SHAPE AND RECOMPACT ANY AGGREGATE BASE THAT IS EXPOSED AFTER MILLING THE BITUMINOUS PAVEMENT. THIS WORK SHALL BE PERFORMED AHEAD OF THE PAVING OPERATION AND BE DONE TO THE SATISFACTION OF THE ENGINEER.
- CONTRACTOR SHALL PROVIDE TACK COAT BETWEEN ALL BITUMINOUS LAYERS AND PRIOR TO PLACING ANY BITUMINOUS MIXTURES ON EXISTING PAVEMENT IN ACCORDANCE WITH SPECIFICATION 2357.

STORM SEWER STRUCTURE SCHEDULE

STRUCTURE	LOCATION	STATION	OFFSET	BUILD	TYPE	CASTING	DETAIL	NOTES
OCS 101	MARIE AVENUE	0+93.57	86.62' L	5.90'	60"	SPLIT GRATE	DETAIL 3,SHEET 3	SUMP STRUCTURE
OCS 102	MARIE AVENUE	1+01.03	81.60' L	5.90'	60"	SPLIT GRATE	DETAIL 3,SHEET 3	SUMP STRUCTURE
FES A	MARIE AVENUE	0+73.75	61.70' L	-	36"	-	DETAIL 4,SHEET 3	NO TRASH GUARD
FES B	MARIE AVENUE	0+79.47	58.17' L	-	36"	-	DETAIL 4,SHEET 3	NO TRASH GUARD

- NOTES**
- STRUCTURE OFFSETS ARE TO THE GUTTER LINE FOR STRUCTURES IN CURB AND CENTER OF MANHOLE FOR STRUCTURES IN OTHER AREAS.
 - TOP OF CASTINGS ARE TO FINISHED COVER OR GUTTER LINE.
 - STRUCTURE BUILDS ARE FROM LOWEST MANHOLE INVERT TO FINISHED COVER OR GUTTER LINE.

RIPRAP REQUIRED: SEE DETAIL 5, THIS SHEET

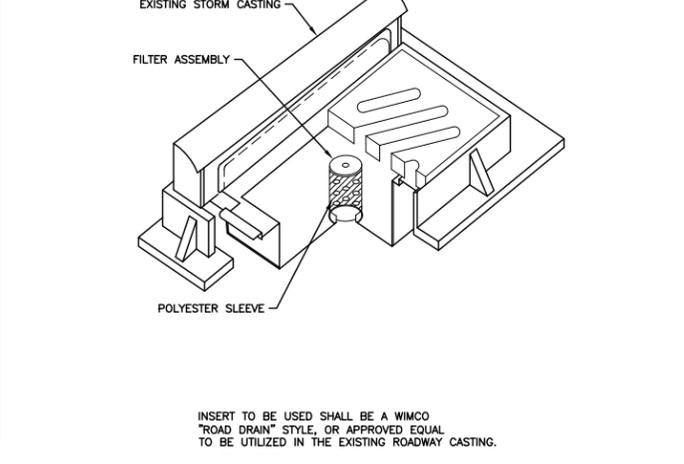


City of Mendota Heights

FLARED END SECTION

DETAIL # 4

STORM DRAIN INLET PROTECTION



City of Mendota Heights

STORM DRAIN INLET PROTECTION

DETAIL # 2

REVISION DESCRIPTION	DATE	DESIGN BY:	PLAN BY:	CHECKED BY:
SPRWS REVIEW: NOT FOR CONSTRUCTION	02-09-12	MMA	MMA	RER
MNDOT REVIEW/NOT FOR CONSTRUCTION	02-27-12			
MNDOT REVIEW/BID ISSUE	03-30-12			

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

Ryan E. Ruzick
RYAN E. RUZICK
DATE: 3/30/12 REG. NO.: 44990

CITY OF MENDOTA HEIGHTS ENGINEERING DEPARTMENT

1101 VICTORIA CURVE
MENDOTA HEIGHTS, MN 55118
PH: (651)452-1850
FAX: (651)452-1366

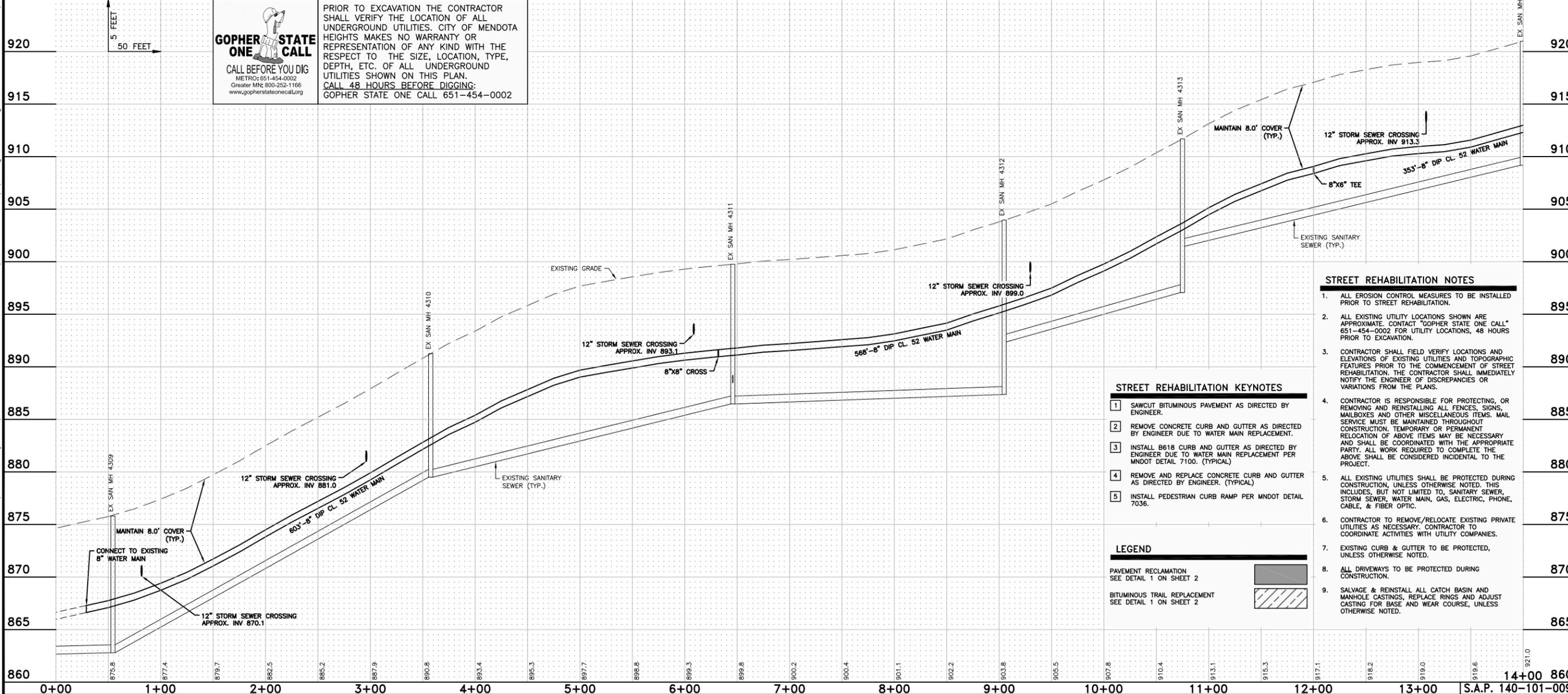
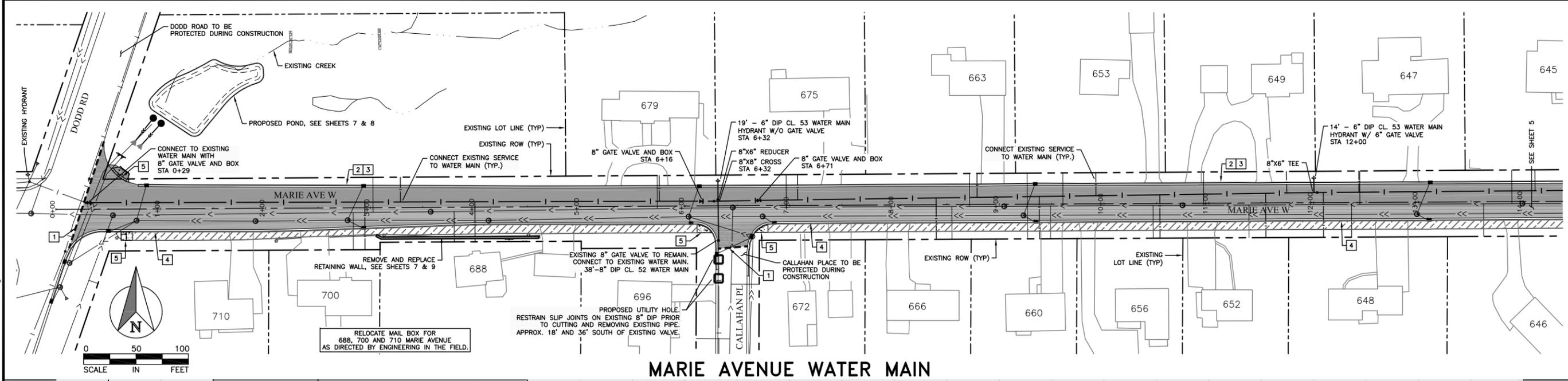
MARIE AVENUE REHABILITATION (BETWEEN DODD ROAD AND DELAWARE AVENUE)

STORM SEWER DETAILS AND CONSTRUCTION NOTES

IMP. NO.	201107
JOB NO.	201107
SHEET	3 OF 11

Mar 30, 2012 10:21am - X:\2011 Projects\MH201107_Marie Ave Rehab (East of Dodd)\Design Drawings & Work Product\MH201107-03GD.dwg

Mar 30, 2012 10:21am - X:\2011 Projects\MH201107_Marie Ave Rehab (East of Dodd)\Design Drawings & Work Product\MH201107-04WM.dwg



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 METRO: 651-454-0002
 Greater MN: 800-252-1166
 www.gopherstateonecall.org

PRIOR TO EXCAVATION THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES. CITY OF MENDOTA HEIGHTS MAKES NO WARRANTY OR REPRESENTATION OF ANY KIND WITH THE RESPECT TO THE SIZE, LOCATION, TYPE, DEPTH, ETC. OF ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN. CALL 48 HOURS BEFORE DIGGING: GOPHER STATE ONE CALL 651-454-0002

STREET REHABILITATION KEYNOTES

- 1 SAWCUT BITUMINOUS PAVEMENT AS DIRECTED BY ENGINEER.
- 2 REMOVE CONCRETE CURB AND GUTTER AS DIRECTED BY ENGINEER DUE TO WATER MAIN REPLACEMENT.
- 3 INSTALL B618 CURB AND GUTTER AS DIRECTED BY ENGINEER DUE TO WATER MAIN REPLACEMENT PER MNDOT DETAIL 7100. (TYPICAL)
- 4 REMOVE AND REPLACE CONCRETE CURB AND GUTTER AS DIRECTED BY ENGINEER. (TYPICAL)
- 5 INSTALL PEDESTRIAN CURB RAMP PER MNDOT DETAIL 7036.

LEGEND

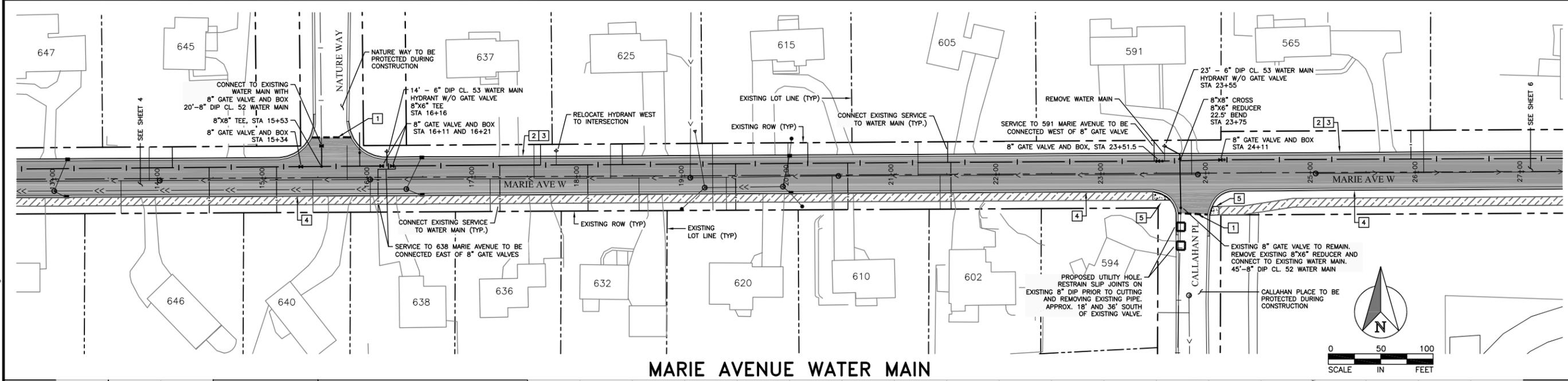
- PAVEMENT RECLAMATION
 SEE DETAIL 1 ON SHEET 2
- BITUMINOUS TRAIL REPLACEMENT
 SEE DETAIL 1 ON SHEET 2

STREET REHABILITATION NOTES

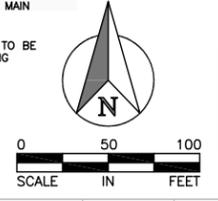
1. ALL EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO STREET REHABILITATION.
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7. EXISTING CURB & GUTTER TO BE PROTECTED, UNLESS OTHERWISE NOTED.
8. ALL DRIVEWAYS TO BE PROTECTED DURING CONSTRUCTION.
9. SALVAGE & REINSTALL ALL CATCH BASIN AND MANHOLE CASTINGS. REPLACE RINGS AND ADJUST CASTING FOR BASE AND WEAR COURSE, UNLESS OTHERWISE NOTED.

DATE	REVISION DESCRIPTION
02-09-12	SPRWS REVIEW: NOT FOR CONSTRUCTION
02-27-12	MNDOT REVIEW/NOT FOR CONSTRUCTION
03-30-12	MNDOT REVIEW/BID ISSUE
DESIGN BY:	MMA
PLAN BY:	MMA
CHECKED BY:	RER
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	
DATE: 3/30/12	REG. NO.: 44990
CITY OF MENDOTA HEIGHTS ENGINEERING DEPARTMENT 1101 VICTORIA CURVE MENDOTA HEIGHTS, MN 55118 PH: (651)452-1850 FAX: (651)452-1366	
MARIE AVENUE REHABILITATION (BETWEEN DODD ROAD AND DELAWARE AVENUE)	
MARIE AVENUE WATER MAIN PLAN & PROFILE	
IMP. NO.	201107
JOB NO.	201107
SHEET	4 of 11

Mar 30, 2012 10:22am - X:\2011 Projects\MH201107_Marie Ave Rehab (East of Dodd)\Design Drawings & Work Product\MH201107-04WM.dwg

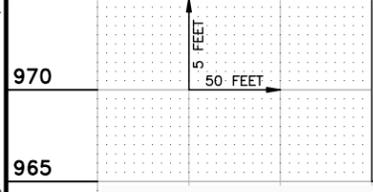


MARIE AVENUE WATER MAIN



REVISION DESCRIPTION	DATE	DESIGN BY:	CHECKED BY:
SPRWS REVIEW: NOT FOR CONSTRUCTION	02-09-12	MMA	RER
MNDOT REVIEW/NOT FOR CONSTRUCTION	02-27-12	MMA	
MNDOT REVIEW/BID ISSUE	03-30-12		

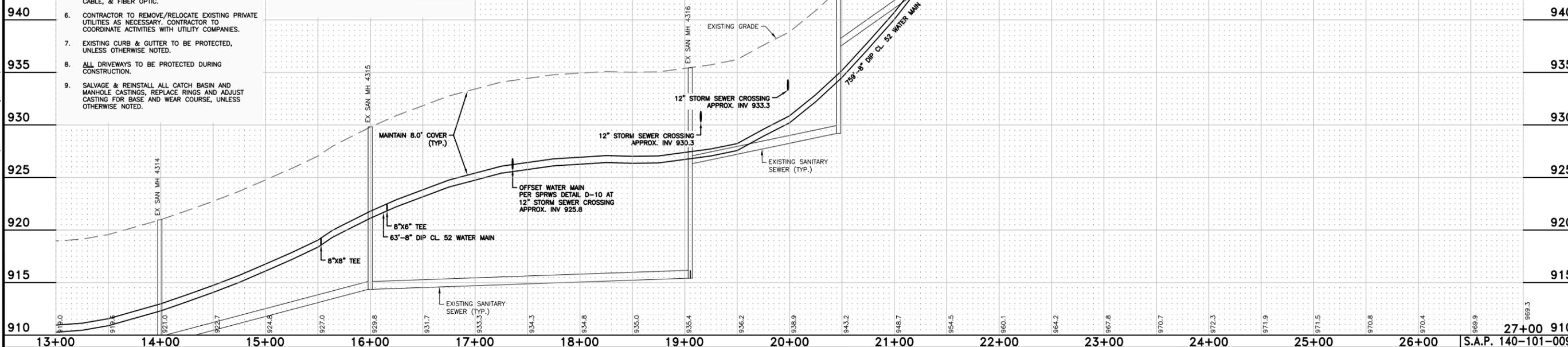
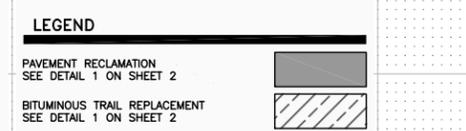
DATE: 3/30/12 REG. NO.: 44990



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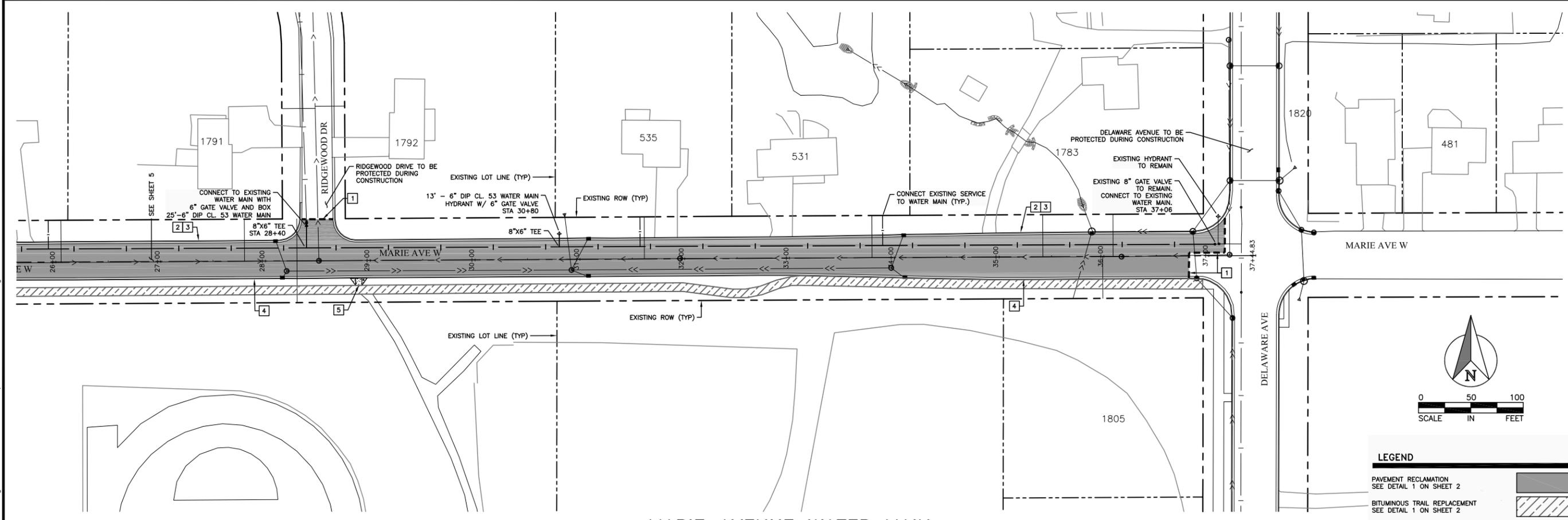
**CITY OF MENDOTA HEIGHTS
ENGINEERING DEPARTMENT**
1101 VICTORIA CURVE
MENDOTA HEIGHTS, MN 55118
PH: (651)452-1850
FAX: (651)452-1366

**MARIE AVENUE REHABILITATION
(BETWEEN DODD ROAD AND
DELAWARE AVENUE)**

**MARIE AVENUE WATER MAIN
PLAN & PROFILE**

IMP. NO. 201107
JOB NO. 201107
SHEET 5 of 11
S.A.P. 140-101-009

Mar 30, 2012 10:22am - X:\2011 Projects\MH201107_Marie Ave Rehab (East of Dodd)\Design Drawings & Work Product\MH201107-04WM.dwg



MARIE AVENUE WATER MAIN

LEGEND

- PAVEMENT RECLAMATION
SEE DETAIL 1 ON SHEET 2
- BITUMINOUS TRAIL REPLACEMENT
SEE DETAIL 1 ON SHEET 2

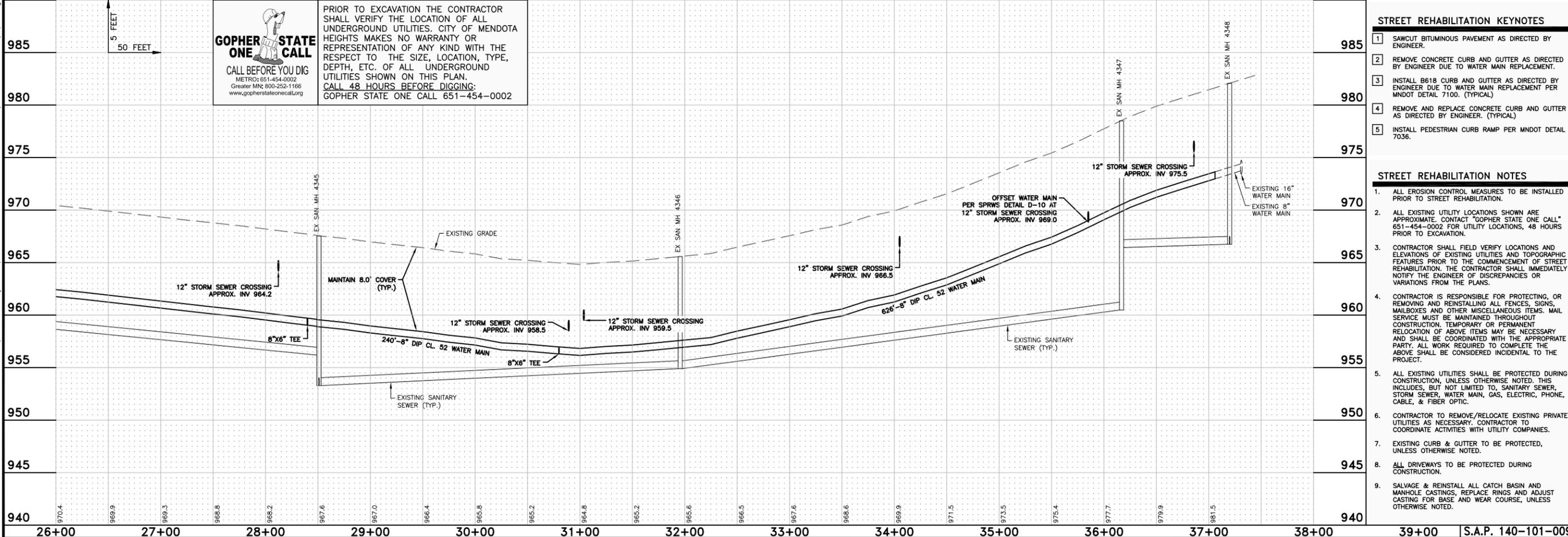
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CALL 48 HOURS BEFORE DIGGING:
GOPHER STATE ONE CALL 651-454-0002

REVISION DESCRIPTION	DATE	DESIGN BY:	DATE
SPRWS REVIEW: NOT FOR CONSTRUCTION	02-09-12	MMA	
MNDOT REVIEW/NOT FOR CONSTRUCTION	02-27-12	PLAN BY:	
MNDOT REVIEW/BID ISSUE	03-30-12	MMA	
		CHECKED BY:	
		RER	

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Ryan E. Ruzick
RYAN E. RUZICK
DATE: 3/30/12 REG. NO.: 44990

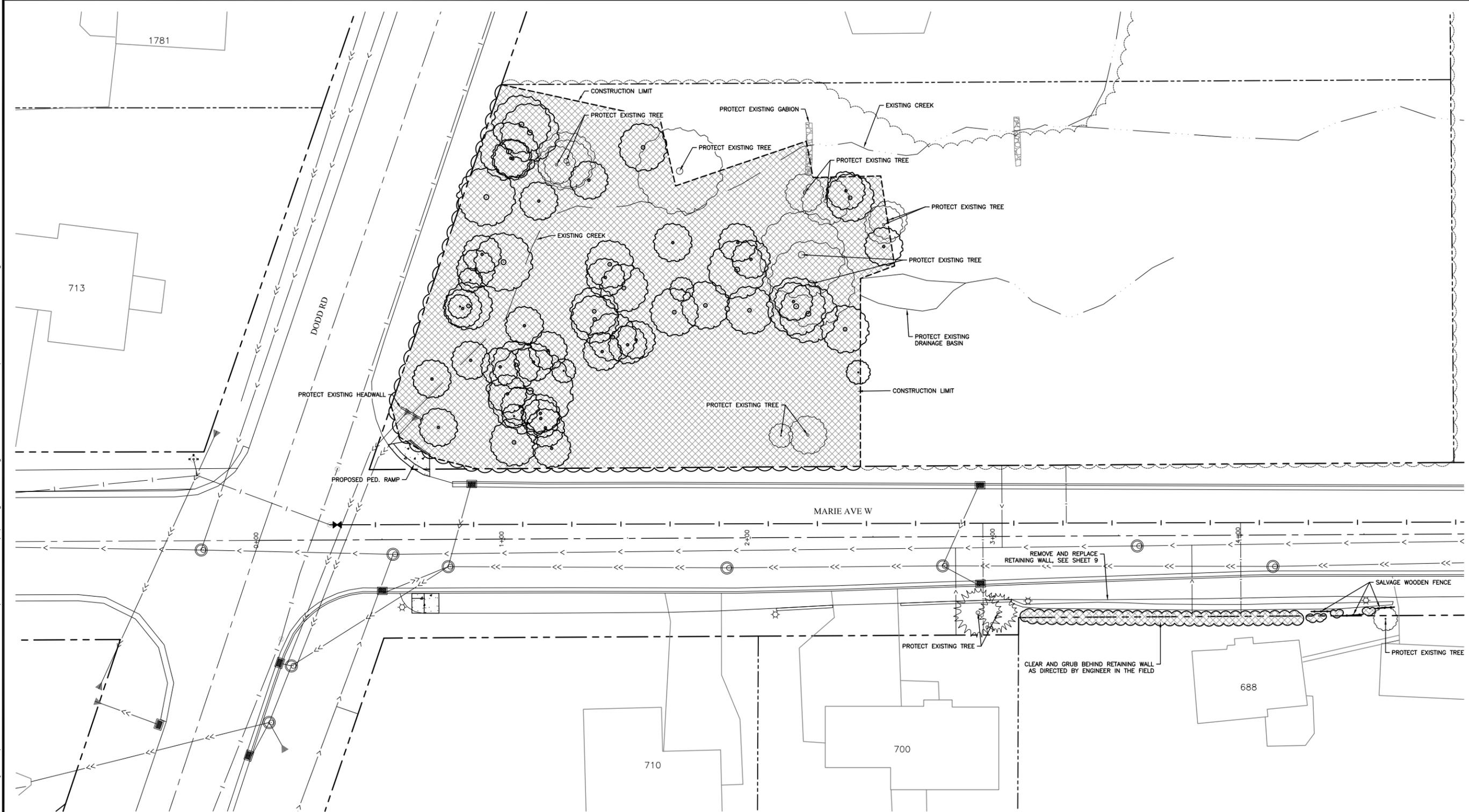
CITY OF MENDOTA HEIGHTS ENGINEERING DEPARTMENT
1101 VICTORIA CURVE
MENDOTA HEIGHTS, MN 55118
PH: (651)452-1850
FAX: (651)452-1366

MARIE AVENUE REHABILITATION (BETWEEN DODD ROAD AND DELAWARE AVENUE)

MARIE AVENUE WATER MAIN PLAN & PROFILE

IMP. NO. 201107
JOB NO. 201107
SHEET 6 of 11

Mar 30, 2012 10:22am X:\2011 Projects\MH201107_Marie Ave Rehab (East of Dodd)\Design Drawings & Work Product\MH201107-07ST.dwg



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 GOPHER STATE ONE CALL 651-454-0002

LEGEND

CLEARING AND GRUBBING

REMOVE TREE

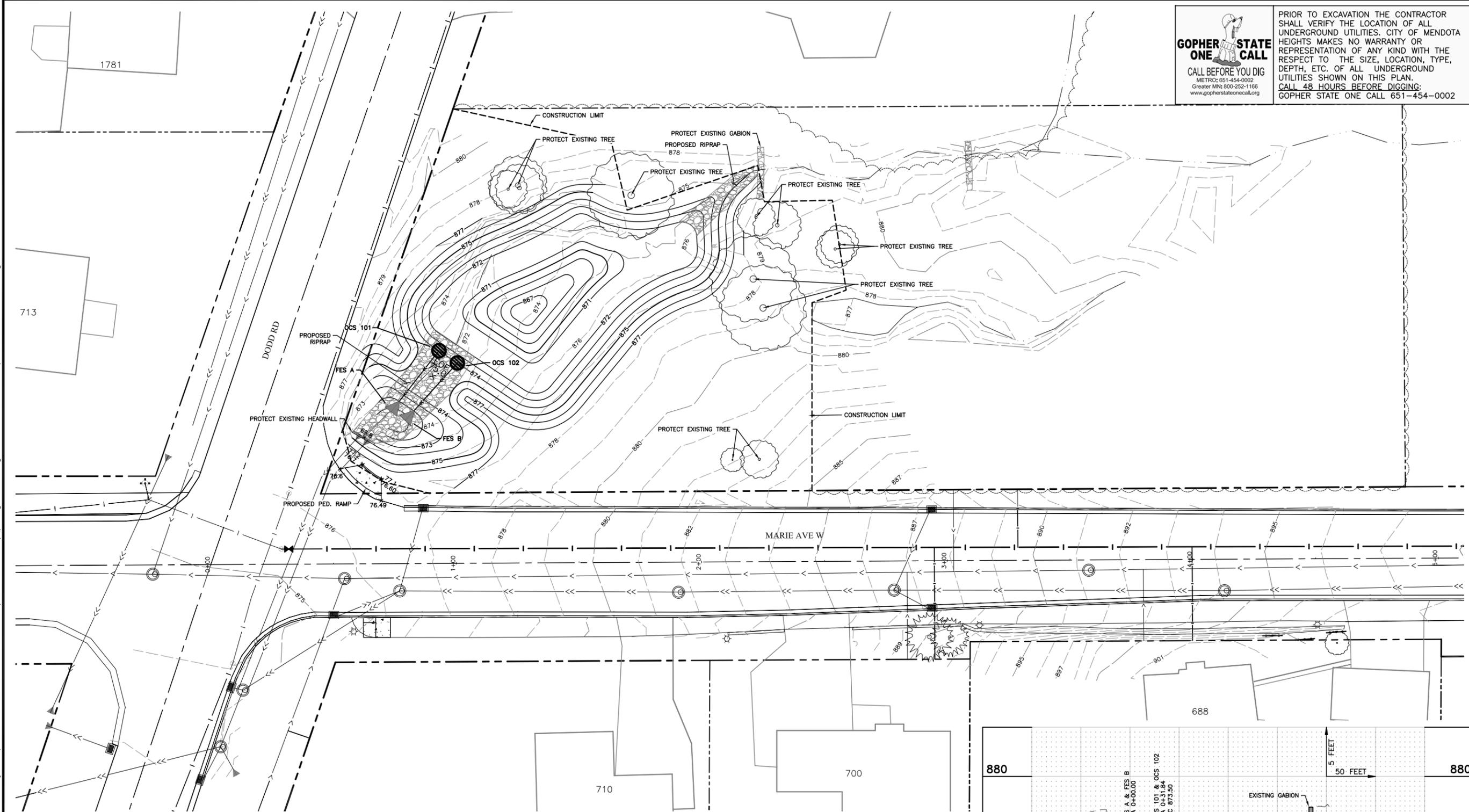
PROTECT EXISTING TREE

SIGNIFICANT TREES SHOW FOR ILLUSTRATION ONLY. REMOVAL OF SIGNIFICANT TREES AND BRUSH SHALL BE INCLUDED IN THE BID ITEMS FOR CLEARING AND GRUBBING PER ACRE.

- REMOVAL NOTES**
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 - ALL STRUCTURES NOT LABELED FOR REMOVAL SHALL BE PROTECTED FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION. ANY DAMAGED STRUCTURES THAT ARE TO REMAIN SHALL BE REPAIRED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION AT NO ADDITIONAL COST.
 - NO CLEARING EFFORTS SHALL BE STARTED WITHOUT THE CAREFUL COORDINATION WITH THE CITY ENGINEER IN ORDER TO UNDERSTAND WHICH TREES ARE TO BE SAVED AND/OR REMOVED.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		DESIGN BY: MMA	DATE 02-09-12	REVISION DESCRIPTION SPRWS REVIEW: NOT FOR CONSTRUCTION
Ryan E. Ruzicki		PLAN BY: MMA	DATE 02-27-12	REVISION DESCRIPTION MNDOT REVIEW/NOT FOR CONSTRUCTION
Ryan E. Ruzicki		CHECKED BY: RER	DATE 03-30-12	REVISION DESCRIPTION MNDOT REVIEW/BID ISSUE
DATE: 3/30/12 REG. NO.: 44990				
CITY OF MENDOTA HEIGHTS ENGINEERING DEPARTMENT 1101 VICTORIA CURVE MENDOTA HEIGHTS, MN 55118 PH: (651)452-1850 FAX: (651)452-1366				
MARIE AVENUE REHABILITATION (BETWEEN DODD ROAD AND DELAWARE AVENUE)		TREE REMOVAL PLAN		
IMP. NO.		201107		
JOB NO.		201107		
SHEET		7 of 11		
S.A.P. 140-101-009				

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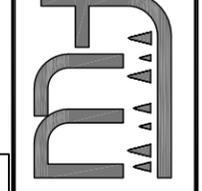
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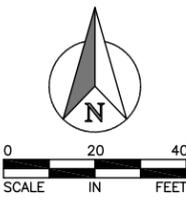
Ryan E. Ruzicki
 RYAN E. RUZICKI
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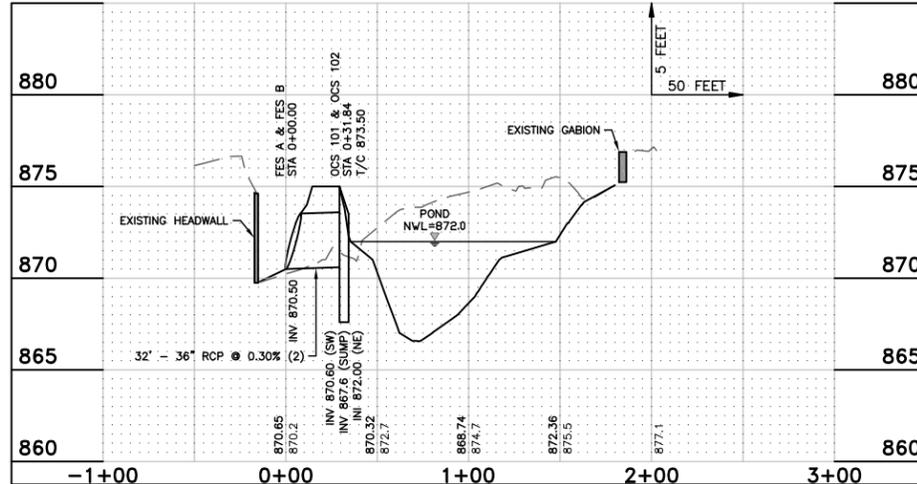
MARIE AVENUE REHABILITATION
(BETWEEN DODD ROAD AND DELAWARE AVENUE)

GRADING PLAN AND PROFILE
SEWER PLAN AND PROFILE

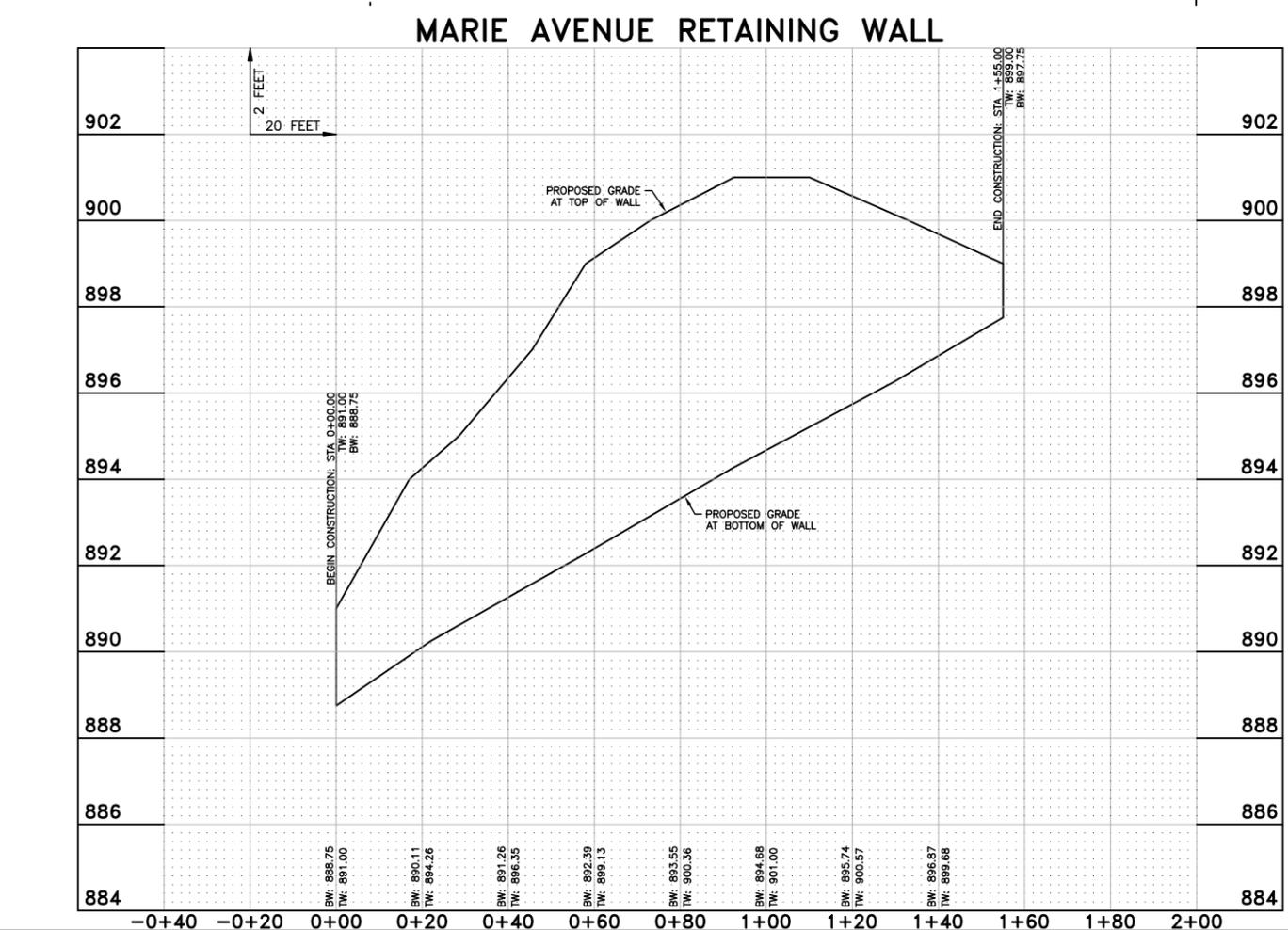
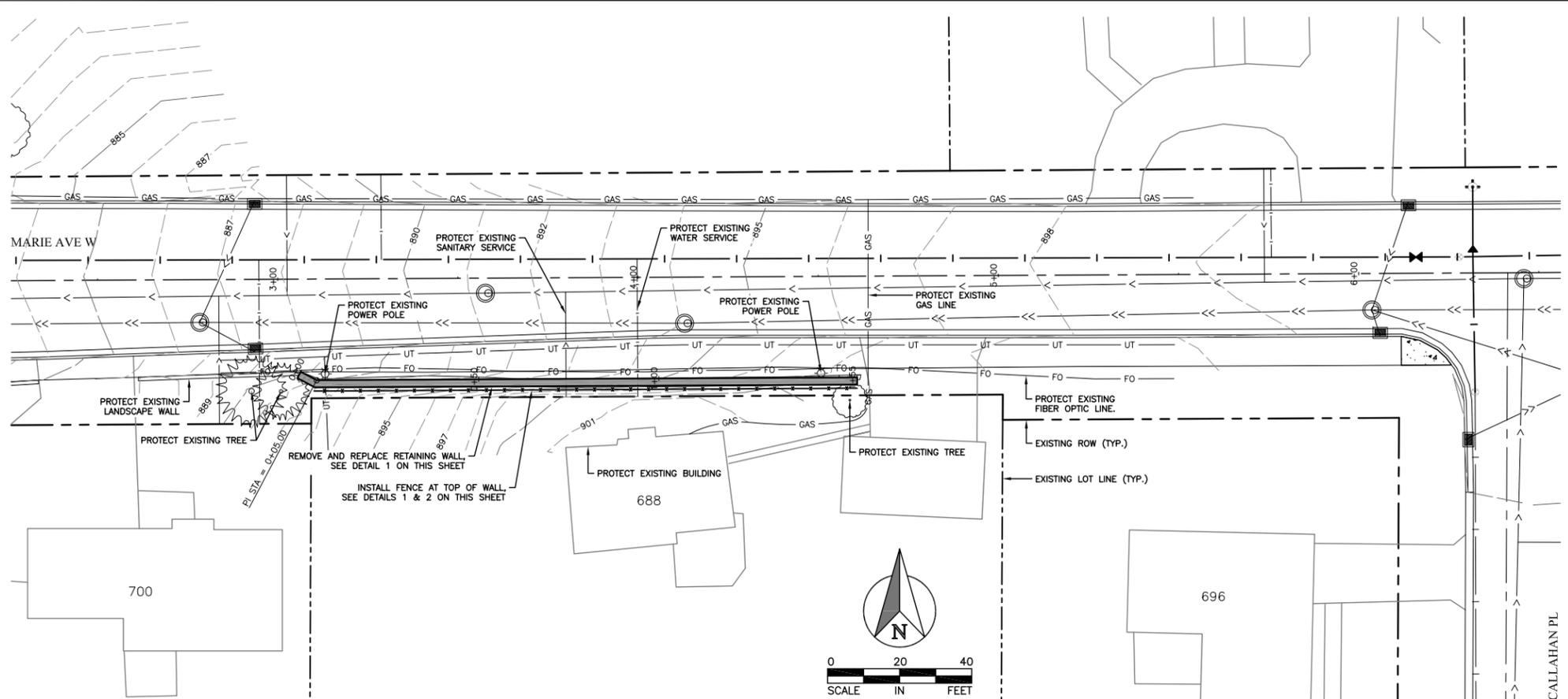
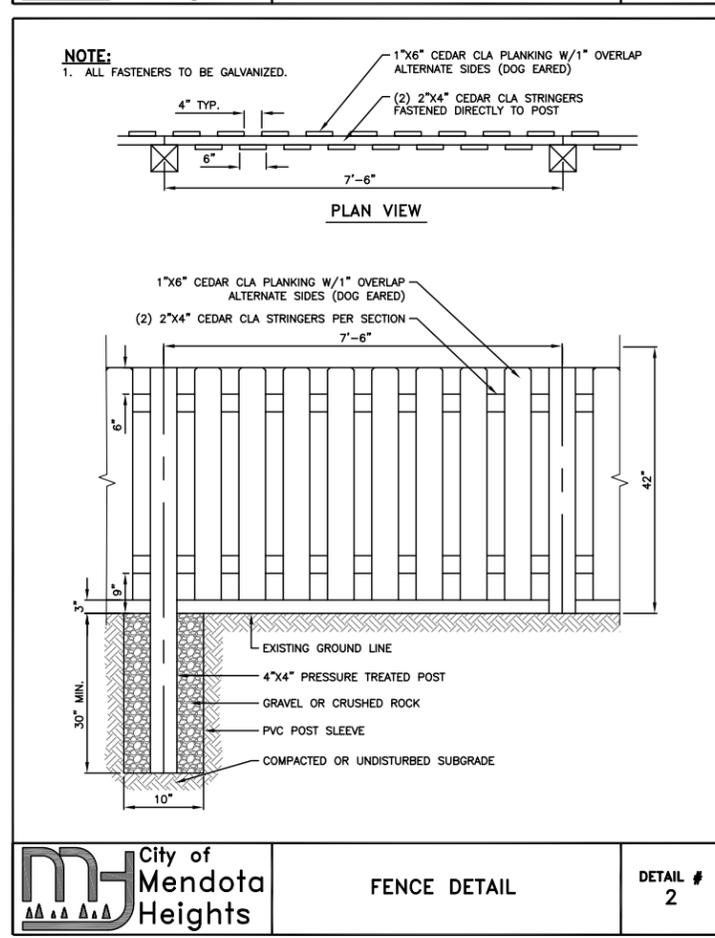
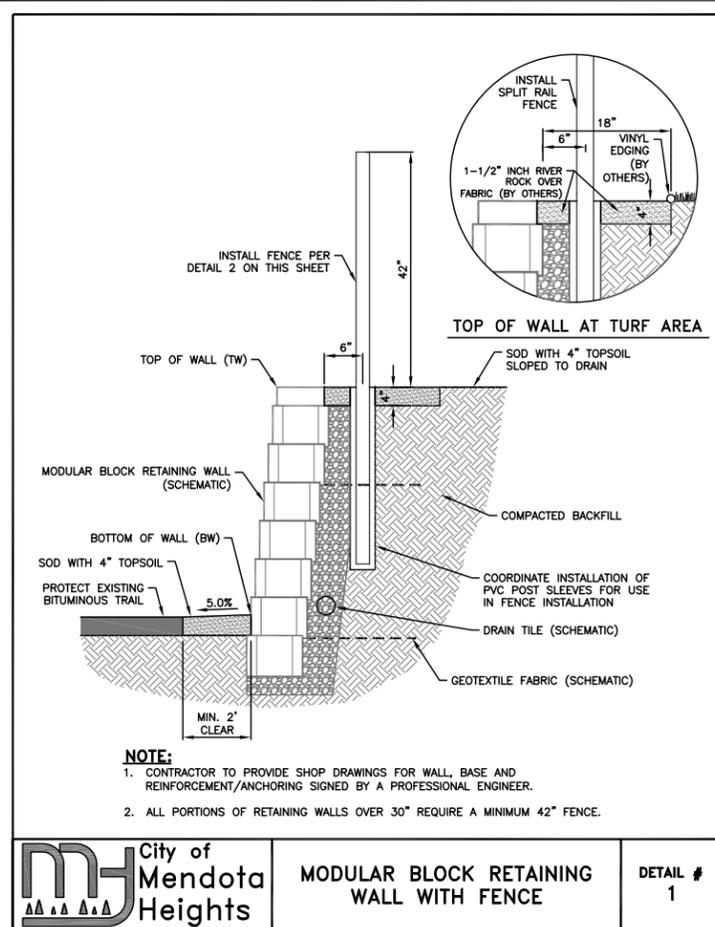


GRADING NOTES

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5. SEE SHEET 7 FOR ALL DIRECTION AND REQUIREMENTS PERTAINING TO EXISTING TREES.
6. SEE SPECIFICATIONS FOR ADDITIONAL GRADING AND EROSION CONTROL REQUIREMENTS.
7. THE POND SHALL BE EXCAVATED AS EARLY IN THE CONSTRUCTION PROCESS AS POSSIBLE. THE CONTRACTOR SHALL REMOVE ANY SILT FROM THE POND AFTER TURF IS ESTABLISHED IN THE PROJECT AT NO ADDITIONAL COST.
8. AS GRADING IS EXECUTED, THE CONTRACTOR SHALL MAINTAIN / INSTALL SILT FENCE, ROCK ENTRANCES, STRAW BALES AND CATCH BASIN PROTECTION TO MINIMIZE RUNOFF OF SEDIMENT.
9. THE CONTRACTOR SHALL LIMIT THEIR ACTIVITIES TO THE GRADING LIMITS SHOWN ON THE GRADING PLAN. ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH LOCAL ORDINANCES. THE CONTRACTOR SHALL SCHEDULE THEIR OPERATIONS TO MINIMIZE THE DISTURBED AREA AT ANY GIVEN TIME.
10. ALL DISTURBED NON-PAVED AREAS ADJACENT TO THE CURB AND GUTTER SHALL BE RESTORED WITH A MINIMUM OF FOUR INCHES (4") OF TOPSOIL AND SOO AS DIRECTED BY THE ENGINEER. ALL DISTURBED NON-PAVED AREAS ADJACENT TO THE PROPOSED POND SHALL BE RESTORED WITH MNDOT SEED MIXTURE 350 AND FIBER BLANKET AS DIRECTED BY THE ENGINEER.



Apr 10, 2012 9:33am X:\2011 Projects\MH201107_Marie Ave Rehab (East of Dodd)\Design Drawings & Work Product\MH201107-09RW.dwg



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 - CONTRACTOR IS RESPONSIBLE FOR PROTECTING, OR REMOVING AND REINSTALLING ALL FENCES, SIGNS, MAILBOXES AND OTHER MISCELLANEOUS ITEMS. MAIL SERVICE MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. TEMPORARY OR PERMANENT RELOCATION OF ABOVE ITEMS MAY BE NECESSARY AND SHALL BE COORDINATED WITH THE APPROPRIATE PARTY. ALL WORK REQUIRED TO COMPLETE THE ABOVE SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
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 - ALL STRUCTURES NOT LABELED FOR REMOVAL SHALL BE PROTECTED FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION. ANY DAMAGED STRUCTURES THAT ARE TO REMAIN SHALL BE REPAIRED BY THE CONTRACTOR TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION AT NO ADDITIONAL COST.
 - SEE SHEET 7 FOR ALL DIRECTION AND REQUIREMENTS PERTAINING TO EXISTING TREES.
 - RETAINING WALL BLOCK MATERIAL TO BE "KEYSTONE COMPAC WITH TRI-PLANE FACE STYLE" AND COLOR TO BE "TAN" BY KEYSTONE RETAINING WALL SYSTEMS OR APPROVED EQUAL.
 - RETAINING WALL TO BE ENGINEERED BY A PROFESSIONAL ENGINEER. CONTRACTOR SHALL SUBMIT STRUCTURAL RETAINING WALL PLANS TO THE CITY ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.
 - CONTRACTOR SHALL COORDINATE WITH CENTURYLINK FOR FIBER OPTIC LINE TO BE WATCHED-DOGGED DURING RETAINING WALL CONSTRUCTION.

REVISION DESCRIPTION	DATE	DESIGN BY:	DATE
	02-09-12	MMA	02-09-12
SPRWS REVIEW: NOT FOR CONSTRUCTION		PLAN BY:	DATE
	02-27-12	MMA	02-27-12
MDOT REVIEW/NOT FOR CONSTRUCTION		CHECKED BY:	DATE
	03-30-12	RER	03-30-12
MDOT REVIEW/BID ISSUE			

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RYAN E. RUIZEL
 REG. NO.: 44990
 DATE: 3/30/12

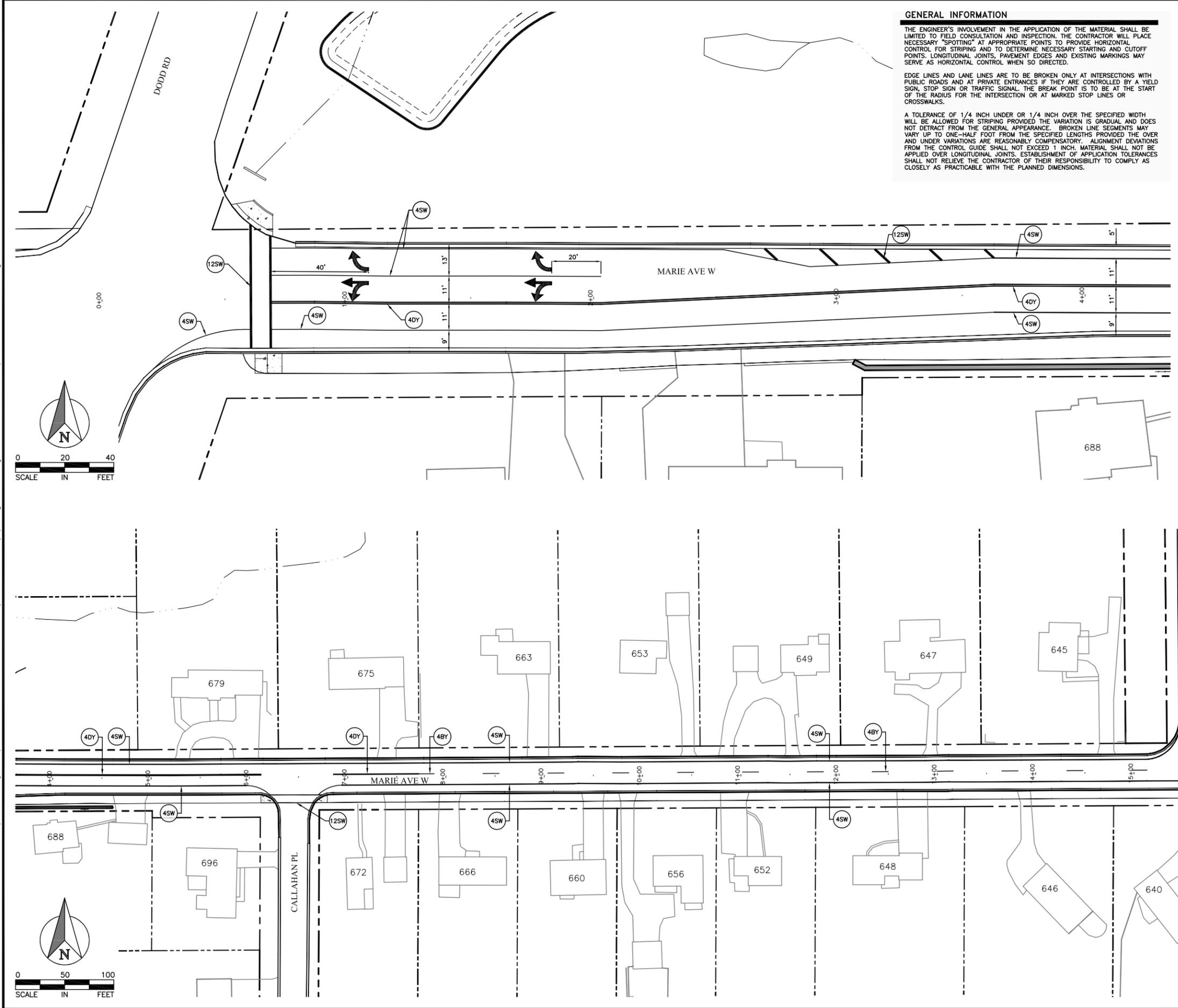
CITY OF MENDOTA HEIGHTS ENGINEERING DEPARTMENT
 1101 VICTORIA CURVE
 MENDOTA HEIGHTS, MN 55118
 PH: (651)452-1850
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MARIE AVENUE REHABILITATION (BETWEEN DODD ROAD AND DELAWARE AVENUE)

RETAINING WALL PLAN & PROFILE

IMP. NO. 201107
 JOB NO. 201107
 SHEET 9 OF 11
 S.A.P. 140-101-009

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GENERAL INFORMATION

THE ENGINEER'S INVOLVEMENT IN THE APPLICATION OF THE MATERIAL SHALL BE LIMITED TO FIELD CONSULTATION AND INSPECTION. THE CONTRACTOR WILL PLACE NECESSARY "SPOTTING" AT APPROPRIATE POINTS TO PROVIDE HORIZONTAL CONTROL FOR STRIPING AND TO DETERMINE NECESSARY STARTING AND CUTOFF POINTS. LONGITUDINAL JOINTS, PAVEMENT EDGES AND EXISTING MARKINGS MAY SERVE AS HORIZONTAL CONTROL WHEN SO DIRECTED.

EDGE LINES AND LANE LINES ARE TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC ROADS AND AT PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY A YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE RADIUS FOR THE INTERSECTION OR AT MARKED STOP LINES OR CROSSWALKS.

A TOLERANCE OF 1/4 INCH UNDER OR 1/4 INCH OVER THE SPECIFIED WIDTH WILL BE ALLOWED FOR STRIPING PROVIDED THE VARIATION IS GRADUAL AND DOES NOT DETRACT FROM THE GENERAL APPEARANCE. BROKEN LINE SEGMENTS MAY VARY UP TO ONE-HALF FOOT FROM THE SPECIFIED LENGTHS PROVIDED THE OVER AND UNDER VARIATIONS ARE REASONABLY COMPENSATORY. ALIGNMENT DEVIATIONS FROM THE CONTROL GUIDE SHALL NOT EXCEED 1 INCH. MATERIAL SHALL NOT BE APPLIED OVER LONGITUDINAL JOINTS. ESTABLISHMENT OF APPLICATION TOLERANCES SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLY AS CLOSELY AS PRACTICABLE WITH THE PLANNED DIMENSIONS.

PAINT

AT THE TIME OF APPLYING THE MARKING MATERIAL, THE APPLICATION AREA SHALL BE FREE OF CONTAMINATION. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE PRIOR TO THE LINE APPLICATION IN A MANNER AND TO THE EXTENT REQUIRED BY THE ENGINEER.

GLASS BEADS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE PAINT LINE.

EXCEPT WHEN USED AS A TEMPORARY MARKING, PAVEMENT MARKINGS SHALL ONLY BE APPLIED IN SEASONABLE WEATHER WHEN AIR TEMPERATURE IS 50° F OR HIGHER AND SHALL NOT BE APPLIED WHEN THE WIND OR OTHER CONDITIONS CAUSE A FILM OF DUST TO BE DEPOSITED ON THE PAVEMENT SURFACE AFTER CLEANING AND BEFORE THE MARKING MATERIAL CAN BE APPLIED.

THE FILLING OF TANKS, POURING OF MATERIALS OR CLEANING OF EQUIPMENT SHALL NOT BE PERFORMED ON UNPROTECTED PAVEMENT SURFACES UNLESS ADEQUATE PROVISIONS ARE MADE TO PREVENT SPILLAGE OF MATERIAL.

EPOXY

THE ROAD SURFACE SHALL BE CLEANED AT THE DIRECTION OF THE ENGINEER JUST PRIOR TO APPLICATION. PAVEMENT CLEANING SHALL CONSIST OF AT LEAST BRUSHING WITH A ROTARY BROOM (NON-METALLIC) OR AS RECOMMENDED BY THE MATERIAL MANUFACTURER AND ACCEPTABLE TO THE ENGINEER. NEW PORTLAND CEMENT CONCRETE SURFACES SHALL BE SANDBLAST CLEANED TO REMOVE ANY SURFACE TREATMENTS AND/OR LAITANCE. ON LOW SPEED (SPEED LIMIT 35 OR LESS) URBAN PORTLAND CEMENT CONCRETE ROADWAYS, SANDBLAST CLEANING SHALL BE USED FOR ALL EPOXY PAVEMENT MARKINGS.

THE EPOXY MARKING APPLICATION SHALL IMMEDIATELY FOLLOW THE PAVEMENT CLEANING. GLASS BEADS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE EPOXY RESIN LINE TO PROVIDE AN IMMEDIATE NO-TRACK SYSTEM.

AN EPOXY RESIN LINE 4" WIDE AND 15 MILL THICKNESS (WET), REQUIRES AN APPLICATION RATE OF ONE (1) GALLON OF COMPONENTS FOR 320 FEET OF LINE. GLASS BEADS SHALL BE APPLIED AT A POUND PER GALLON RATE SUFFICIENT TO ACHIEVE AN ACCEPTABLE NO-TRACK SYSTEM.

OPERATIONS SHALL BE CONDUCTED ONLY WHEN THE ROAD PAVEMENT SURFACE TEMPERATURES ARE 50 DEGREES ° F OR GREATER.

PERMANENT PAVEMENT MARKINGS SHALL NOT BE PLACED OVER TEMPORARY TAPE MARKINGS.

POLY PREFORM INLAY APPLICATION

MAT TEMPERATURE SHALL BE CHECKED USING A THERMOMETER TO MAKE SURE THE INLAY IS BEING DONE IN THE PROPER TEMPERATURE RANGE. THE TEMPERATURE SHOULD MEASURE BETWEEN 150° F (ASPHALT FIRM ENOUGH TO WALK ON) AND 120° F. APPLICATION BELOW 120° F MAY NOT GET A PROPER INLAY. INLAIS ARE NOT RECOMMENDED AFTER SEPTEMBER 15th AS THE ASPHALT COOLS TOO FAST AT THIS TIME OF THE YEAR.

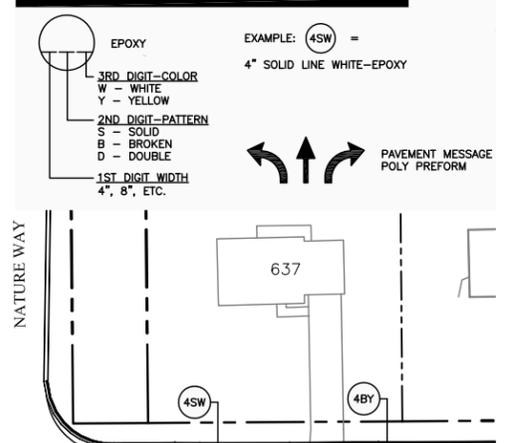
NO PRIMERS ARE USED FOR INLAY APPLICATION. DO NOT INSTALL LANE LINES ON AN ASPHALT SEAM. ROLLING OF ALL THE MARKINGS SHOULD BE LENGTHWISE IN THE DIRECTION THEY WERE LAID. FOR CROSSWALKS AND STOP BARS, INITIAL TAMPING WITH THE TAMPING CART IS RECOMMENDED USING ONLY 100 LBS. OF WEIGHT.

USE COMPACTION ROLLER TO EMBED (INLAY) MARKINGS INTO PAVEMENT SURFACE. USE MINIMUM SPEED AND WATER ON ROLLER. DO NOT USE VIBRATOR. IF MARKING BUCKLES OR DISTORTS SEVERELY IN FRONT OF ROLLER, MAT TEMPERATURE OR ROLLER SPEED MAY BE TOO HIGH.

POLY PREFORM GROOVED APPLICATION

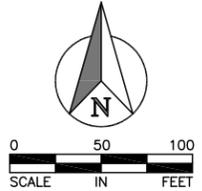
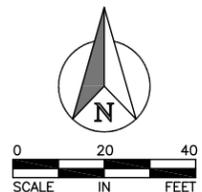
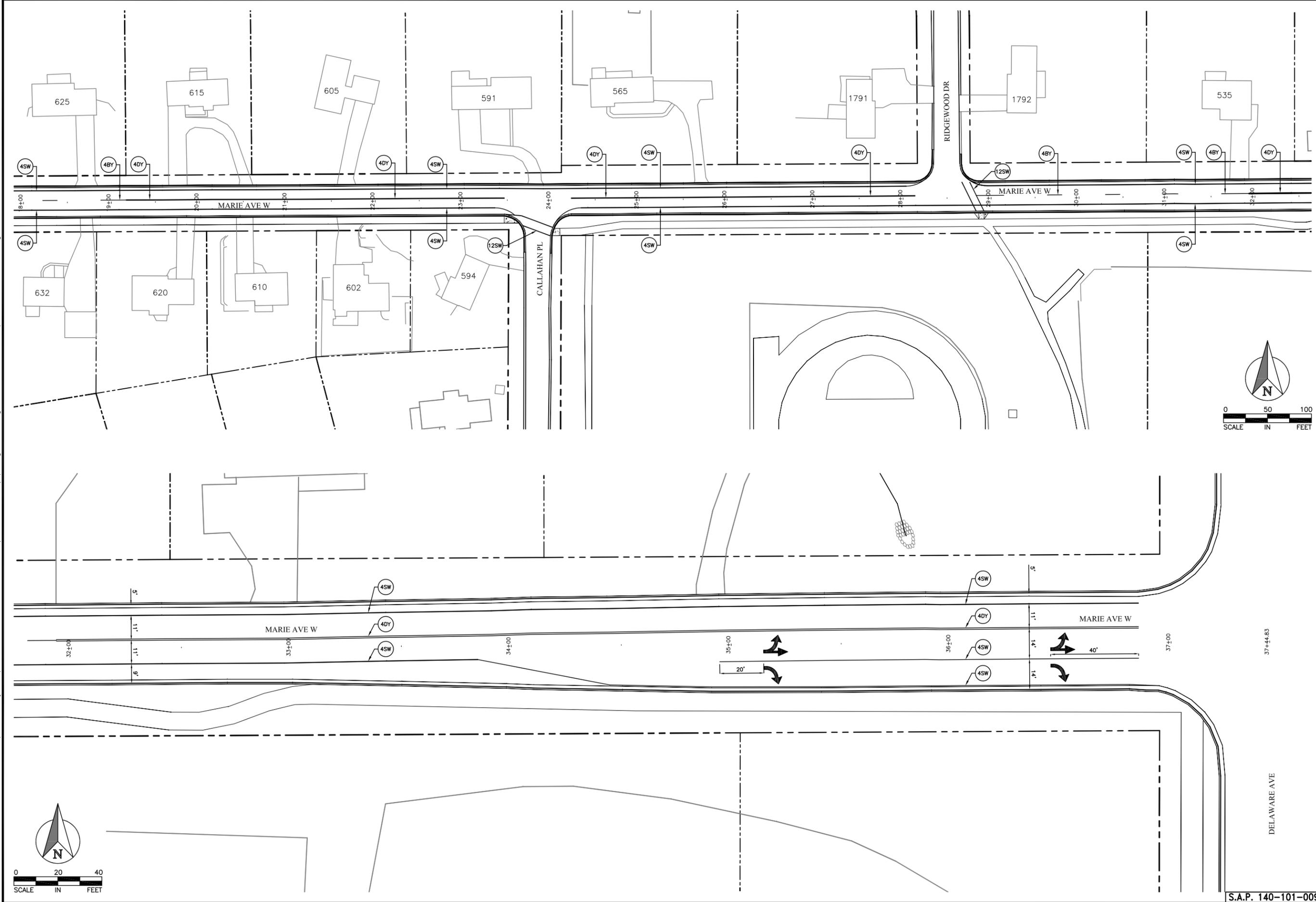
CONCRETE PAVEMENT SURFACES AND BITUMINOUS PAVEMENT SURFACES WHERE PAVEMENT MARKINGS CANNOT BE INLAID IN THE HOT MAT, SHALL BE GROOVED FOR THE INSTALLATION OF DURABLE REFLECTORIZED PAVEMENT MARKINGS. SEE SPECIAL PROVISIONS.

STRIPING KEY



REVISION DESCRIPTION	
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02-09-12	MDOT REVIEW NOT FOR CONSTRUCTION
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PLAN BY:	MJA
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 RYAN E. RUZICKI DATE: 3/30/12 REG. NO.: 44990	
CITY OF MENDOTA HEIGHTS ENGINEERING DEPARTMENT 1101 VICTORIA CURVE MENDOTA HEIGHTS, MN 55118 PH: (651)452-1850 FAX: (651)452-1366	
MARIE AVENUE REHABILITATION (BETWEEN DODD ROAD AND DELAWARE AVENUE) STRIPING PLAN	
IMP. NO.	201107
JOB NO.	201107
SHEET 10 of 11	

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DESIGN BY: MJA	REVISION DESCRIPTION
PLAN BY: MJA	DATE
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Ryan E. Ruzick
 RYAN E. RUZICK
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**MARIE AVENUE REHABILITATION
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 DELAWARE AVENUE)**

STRIPING PLAN

IMP. NO.
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SHEET 11 of 11

S.A.P. 140-101-009