ANOKA COUNTY, MN

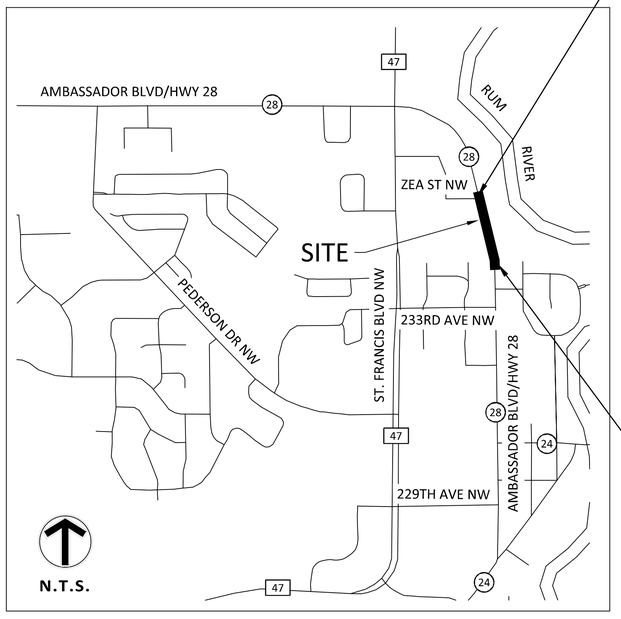
CONSTRUCTION PLANS FOR AMBASSADOR BOULEVARD IMPROVEMENTS. BITUMINOUS RIGHT TURN LANE, GRAVEL SHOULDERS, DITCH GRADING AND STORM SEWER CULVERT

LOCATED ON CSAH 28/AMBASSADOR BLVD. FROM 233RD LANE NW TO ZEA STREET NW

GROSS LENGTH	873.26	FEET	0.165	MILES
BRIDGES-LENGTH	NA	FEET	NA	MILES
EXCEPTIONS-LENGTH	NA	FEET	NA	MILES
NET LENGTH	873.26	FEET	0.165	MILES

PLAN SYMBOLS

- FOUND MONUMENT
- SET MONUMENT MARKED LS 47481
- ELECTRIC METER
- LIGHT
- AIR CONDITIONER
- GUY ANCHOR
- HANDICAP STALL
- UTILITY POLE
- POST
- SIGN
- WATERMAIN
- SANITARY SEWER
- STORM SEWER
- FLARED END SECTION
- ELECTRIC TRANSFORMER
- TELEPHONE PEDESTAL
- GAS METER
- OVERHEAD WIRE
- CHAIN LINK FENCE
- IRON FENCE
- WIRE FENCE
- WOOD FENCE
- EASEMENT LINE
- SETBACK LINE
- RESTRICTED ACCESS
- CONCRETE CURB
- BUILDING LINE
- BUILDING CANOPY
- BITUMINOUS SURFACE
- CONCRETE SURFACE
- LANDSCAPE SURFACE
- DECIDUOUS TREE
- CONIFEROUS TREE



VICINITY MAP
NO SCALE

END PROJECT
STA. 11+08.61
CSAH 28/AMBASSADOR BLVD

BEGIN PROJECT
STA. 2+35.35
CSAH 28/AMBASSADOR BLVD

BENCHMARKS

THE SITE ELEVATIONS ARE BASED ON NAVD88:

BM #1 - TNH IN NORTH R.O.W OF AZTEC ST. NW WHICH HAS AN ELEVATION OF 920.64 FEET

BM #2 - TNH IN SOUTH R.O.W. OF ZEA ST. NW WHICH HAS AN ELEVATION OF: 918.45 FEET

THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE PLANS IS A UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF ASCE/CI 38-02, TITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, BY CONTACTING THE NOTIFICATION CENTER (GOPHER STATE ONE FOR MINNESOTA). THE CONTRACTOR AND/OR SUBCONTRACTOR AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY HIS OR HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES (UNDERGROUND AND OVERHEAD).

IF THE CONTRACTOR ENCOUNTERS ANY DRAIN TILE WITHIN THE SITE, HE OR SHE SHALL NOTIFY THE ENGINEER WITH THE LOCATION, SIZE, INVERT AND IF THE TILE LINE IS ACTIVE. NO ACTIVE DRAIN TILE SHALL BE BACKFILLED WITHOUT APPROVAL FROM THE PROJECT ENGINEER.

SCALES

PLAN	0	40 FT.	
PROFILE	0 HORIZ. 40 FT.	0 VERT. 5 FT.	
INDEX MAP	0	NONE	

PROJECT LOCATION
COUNTY : ANOKA
DISTRICT : METRO

GOVERNING SPECIFICATIONS

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

TRAFFIC CONTROL

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

SHEET INDEX

THIS PLAN CONTAINS 11 SHEETS

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

PRINT NAME: Michael J. Nielson LICENSE # 23623

SIGNATURE: _____ DATE 05/13/2022

APPROVED _____ DATE _____
ST. FRANCIS CITY ENGINEER

APPROVED _____ DATE _____
ANOKA COUNTY ENGINEER

I HEREBY CERTIFY THAT THE FINAL FIELD REVISIONS, IF ANY, WERE 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.

PRINT NAME: _____ LICENSE # _____

DATE: _____ SIGNATURE: _____

NO	DATE	BY	CKD	APPR	COMMENT

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.

Print Name: Michael Nielson

Date 08/29/2022 License # 23623

PRELIMINARY	
DESIGN REVIEW	
PERMIT SUBMITTAL	
CONSTRUCTION DOCUMENTS	

DRAWN BY	DJD
DESIGNED BY	JJG
CHECKED BY	MJN
PROJECT NO.	22377

Sambatek
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Engineering | Surveying | Planning | Environmental

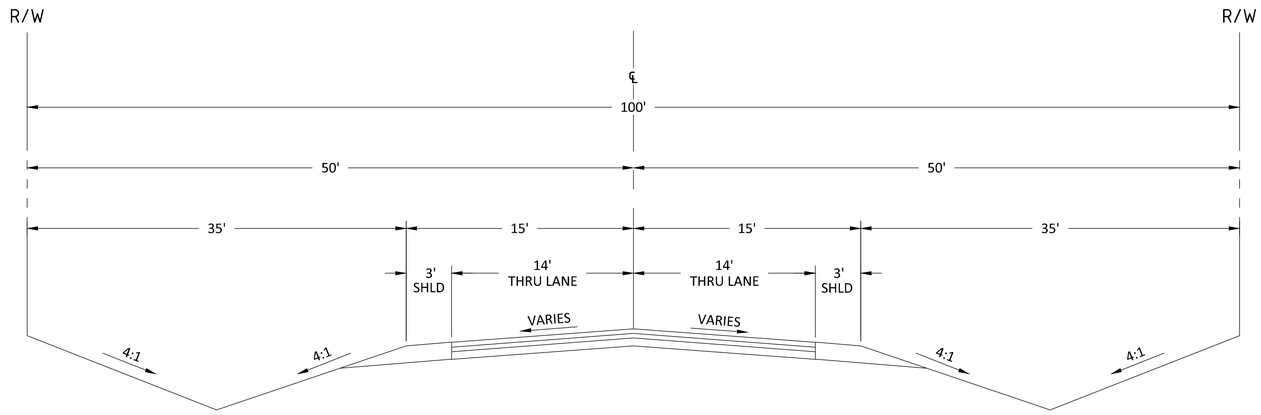
TITLE SHEET
Anoka County, MN
Ambassador Blvd. Right Turn Lane
St. Francis, MN

SHEET
C1.01
1 OF 11
REV.

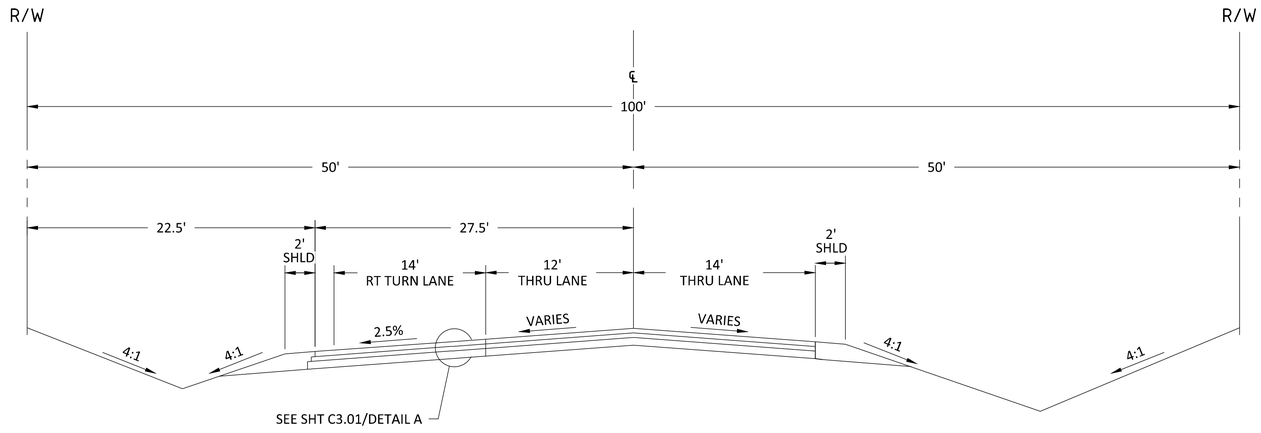
STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	SHEET	MNDOT NO.	NOTES	BID ITEM	UNIT	TOTAL QUANTITY
1		2021.501		MOBILIZATION	LUMP SUM	1
2		2012.602		TRAFFIC CONTROL	LUMP SUM	1
3	2	2104.502		SALVAGE AND REINSTALL SIGN TYPE C	EACH	2
4		2104.503		SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LF	4.80
5	2	2104.503		REMOVE PIPE CULVERT	EA	1
6	7	2501.503		18" RC ARCH PIPE CULVERT DESIGN 3006 CL III	LF	76
7	7	2501.502		18" RC SAFETY APRON	EA	2
8		2232.504		MILL BITUMINOUS SURFACE (1.5")	SY	69
9	3	2106.507		COMMON EXCAVATION (CV)	CU YD	390
10	3	2112.604		SUBGRADE PREPARATION	SQ YD	390
11	3	2211.509		AGGREGATE BASE CLASS 5 (CV)	CY	167
12	3	2215.504		SELECT GRANULAR BORROW (CV)	CY	405
13		2221.507		SHOULDER BASE AGGREGATE (CV) CLASS X	CY	11
14	3	2357.506		BITUMINOUS MATERIAL FOR TACK COAT	GAL	80
15	3	2360.509		TYPE SP 9.5 WEARING COURSE MIXTURE (3,B)	TON	90
16	3	2360.509		TYPE SP 12.5 NON WEARING COURSE MIXTURE (3,B)	TON	120
17		2564.518		INSTALL SIGN PANEL TYPE C	EACH	8
18	4	2582.503		4" SOLID LINE MULTI-COMPONENT	LIN FT	978
19		2574.507		COMMON TOPSOIL BORROW	CU YD	310
20		2573.503		SEDIMENT CONTROL LOG TYPE COMPOST	LF	550
21		2575.508		SEED MIXTURE 25-141 (GENERAL ROADSIDE)	LBS	10

EXISTING ROADWAY
AMBASSADOR BLVD NW
STA TO STA



AMBASSADOR BLVD NW
RIGHT TURN LANE (5+50 TO 11+40)



NO	DATE	BY	CKD	APPR	COMMENT

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.

Print Name: Michael Nielson

Date 08/29/2022 License # 23623

PRELIMINARY | DESIGN REVIEW | PERMIT SUBMITTAL | CONSTRUCTION DOCUMENTS

DRAWN BY DJD | DESIGNED BY JJG | CHECKED BY MJN | PROJECT NO. 22377

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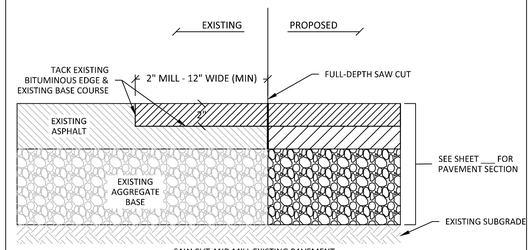
ESTIMATED QUANTITIES & TYPICAL SECTIONS

Anoka County, MN
Ambassador Blvd. Right Turn Lane

St. Francis, MN

SHEET
C2.01
2 OF 11
REV.



14 PAVEMENT JOINT
N.T.S.

STRT-14
10/12
NO SCALE

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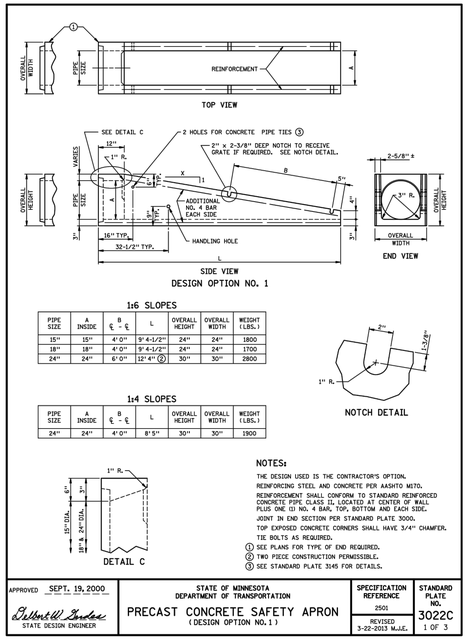


1:6 SLOPES

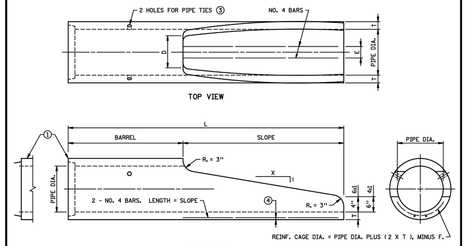
PIPE SIZE	A INSIDE	B ℄ - ℄	L	OVERALL HEIGHT	OVERALL WIDTH	WEIGHT (LBS.)
15"	15"	4'-0"	9'-4-1/2"	24"	24"	1800
18"	18"	4'-0"	9'-4-1/2"	24"	24"	1700
24"	24"	6'-0"	12'-4" ②	30"	30"	2800

1:4 SLOPES

PIPE SIZE	A INSIDE	B ℄ - ℄	L	OVERALL HEIGHT	OVERALL WIDTH	WEIGHT (LBS.)
24"	24"	4'-0"	8'-5"	30"	30"	1900

NOTES:
THE DESIGN USED IS THE CONTRACTOR'S OPTION.
REINFORCING STEEL AND CONCRETE PER AASHTO M170.
REINFORCEMENT SHALL CONFORM TO STANDARD REINFORCED CONCRETE PIPE CLASS II, LOCATED AT CENTER OF WALL PLUS ONE (1) NO. 4 BAR, TOP, BOTTOM AND EACH SIDE.
JOINT IN END SECTION PER STANDARD PLATE 3000.
TOP EXPOSED CONCRETE CORNERS SHALL HAVE 3/4" CHAMFER.
TIE BOLTS AS REQUIRED.
① SEE PLANS FOR TYPE OF END REQUIRED.
② TWO PIECE CONSTRUCTION PERMISSIBLE.
③ SEE STANDARD PLATE 3145 FOR DETAILS.

APPROVED SEPT. 19, 2000	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION	SPECIFICATION REFERENCE	STANDARD PLATE NO.
Gilbert W. Burdan STATE DESIGN ENGINEER	PRECAST CONCRETE SAFETY APRON (DESIGN OPTION NO. 1)	2501 REVISED 3-22-2013 M.J.E.	3022C 1 OF 3



1:6 SLOPES

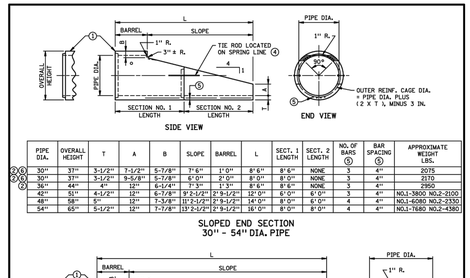
DIAMETER (IN.)	T (IN.)	L (IN.)	SLOPE (IN.)	BARREL (IN.)	D (IN.)	E (IN.)	F (IN.)	WEIGHT (LBS.)
12	2	72	42	30	6	3	2-1/4	415
15	2-1/4	84	60	24	8	4	2-1/4	595
18	2-1/2	96	81	15	10	5	2-1/2	850
24	3	144 ②	120	24	11	6	2-1/2	NO.1 1280 NO.2 720

1:4 SLOPES

DIAMETER (IN.)	T (IN.)	L (IN.)	SLOPE (IN.)	BARREL (IN.)	D (IN.)	E (IN.)	F (IN.)	WEIGHT (LBS.)
18	2-1/2	72	46	26	10	5	2-1/2	750
24	3	96	72	24	11	6	2-1/2	1450

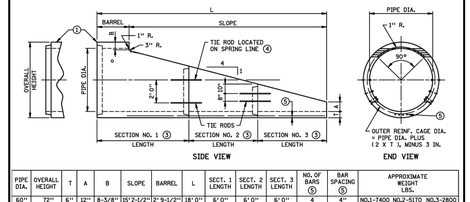
NOTES:
THE DESIGN USED IS THE CONTRACTOR'S OPTION.
REINFORCEMENT AND CONCRETE SHALL CONFORM TO STANDARD REINFORCED CONCRETE PIPE CLASS II, EXCEPT AS NOTED.
JOINT IN END SECTION PER STANDARD PLATE 3000, OR APPROVED EQUAL.
① GROOVE END ON OUTLET END SECTION. TONGUE END ON INLET END SECTION.
② TWO 6 FOOT SECTIONS.
③ SEE STANDARD PLATE 3145 FOR DETAILS.
④ 5/8" CLEAR TO 15" DIA., 3/4" CLEAR OVER 15" DIA.

APPROVED SEPT. 19, 2000	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION	SPECIFICATION REFERENCE	STANDARD PLATE NO.
Gilbert W. Burdan STATE DESIGN ENGINEER	PRECAST CONCRETE SAFETY APRON (DESIGN OPTION NO. 2)	2501 REVISED 3-22-2013 M.J.E.	3022C 2 OF 3



	PIPE DIA.	OVERALL HEIGHT	T	A	B	SLOPE	BARREL	L	SECT. 1 LENGTH	SECT. 2 LENGTH	NO. OF BARS ⑤	BAR SPACING ⑤	APPROXIMATE WEIGHT LBS.
②⑥	30"	37"	3-1/2"	7-1/2"	5-7/8"	3"&	1'-0"	8'-6"	8'-6"	NONE	3	4"	2075
②⑥	30"	37"	3-1/2"	9-5/8"	5-7/8"	6"&	2'-0"	8'-0"	8'-0"	NONE	3	4"	2170
②	36"	44"	4"	8"	6-1/4"	3"&	1'-3"	8'-6"	8'-6"	NONE	3	4"	2950
	42"	51"	4-1/2"	12"	6-7/8"	9"&	2'-1-1/2"	8'-6"	12'-0"	6'-0"	3	4"	NO.1-3800 NO.2-2100
	48"	58"	5"	12"	7-1/8"	11"&	2'-1-1/2"	8'-6"	14'-0"	8'-0"	4	4"	NO.1-5060 NO.2-2330
	54"	65"	5-1/2"	12"	7-7/8"	13"&	2'-1-1/2"	8'-6"	16'-0"	8'-0"	4	4"	NO.1-7680 NO.2-4380

SLOPED END SECTION
30" - 54" DIA. PIPE

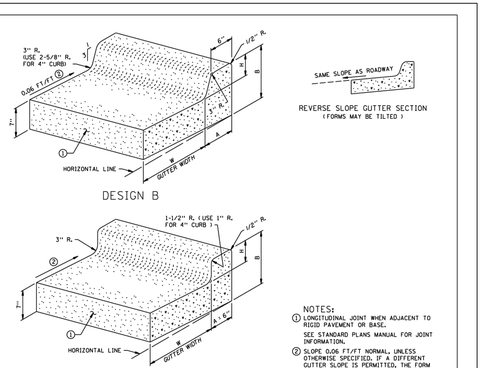


PIPE DIA.	OVERALL HEIGHT	T	A	B	SLOPE	BARREL	L	SECT. 1 LENGTH	SECT. 2 LENGTH	SECT. 3 LENGTH	NO. OF BARS ⑤	BAR SPACING ⑤	APPROXIMATE WEIGHT LBS.
60"	72"	6"	12"	8-3/8"	15"-2-1/2"	2'-3-1/2"	18'-0"	6'-0"	6'-0"	6'-0"	4	4"	NO.1-7400 NO.2-5170 NO.3-2800
72"	86"	7"	12"	9-3/8"	19'-2-1/2"	2'-3-1/2"	22'-0"	8'-0"	8'-0"	6'-0"	4	4"	NO.1-12130 NO.2-8000 NO.3-4050

THREE PIECE SLOPED END SECTION
60" & 72" DIA. PIPE

NOTES:
REINFORCING STEEL AND CONCRETE PER AASHTO M170.
REINFORCEMENT SHALL CONFORM TO STANDARD REINFORCED CONCRETE PIPE CLASS II.
JOINTS IN END SECTION PER STANDARD PLATE 3000, OR APPROVED EQUAL.
JOINTS SHALL BE SEALED PER SPEC. 2503.3C.
INNER CAGE NOT REQUIRED IN SLOPE AREA.
① SEE PLANS FOR TYPE OF END REQUIRED.
② NO TIE RODS OR ADDITIONAL JOINTS REQUIRED.
③ SECTION LENGTHS MAY VARY, TOTAL LENGTH TO EQUAL L.
④ SEE STANDARD PLATE 3145 FOR DETAILS.
⑤ NO. 4 BARS, MIN. LENGTH = SLOPE. 1" CLEAR ALL SIZES.
⑥ DESIGN USED IS CONTRACTOR'S OPTION.

APPROVED SEPT. 19, 2000	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION	SPECIFICATION REFERENCE	STANDARD PLATE NO.
Gilbert W. Burdan STATE DESIGN ENGINEER	PRECAST CONCRETE SAFETY APRON (1:4 SLOPE)	2501 REVISED 3-22-2013 M.J.E.	3022C 3 OF 3



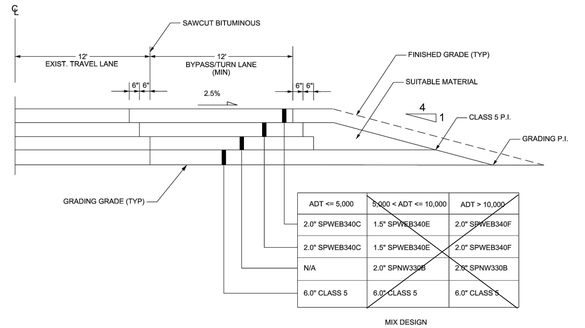
NOTES:
① LONGITUDINAL JOINT WHEN ADJACENT TO RIGID PAVEMENT OR BASE. SEE STANDARD PLANS MANUAL FOR JOINT INFORMATION.
② SLOPE 0.06 FT/FT NORMAL, UNLESS OTHERWISE SPECIFIED. IF A DIFFERENT GUTTER SLOPE IS PERMITTED, THE FORM MAY BE TILTED.

DESIGN B	W = 12"			W = 18"			W = 24"			W = 30"			W = 36"		
	CONCRETE			CONCRETE			CONCRETE			CONCRETE			CONCRETE		
DIMENSIONS	DESIGN NO.	CU. YDS. IN, FT. PER ①	LIN. FT. IN, FT. PER ①	DESIGN NO.	CU. YDS. IN, FT. PER ①	LIN. FT. IN, FT. PER ①	DESIGN NO.	CU. YDS. IN, FT. PER ①	LIN. FT. IN, FT. PER ①	DESIGN NO.	CU. YDS. IN, FT. PER ①	LIN. FT. IN, FT. PER ①	DESIGN NO.	CU. YDS. IN, FT. PER ①	LIN. FT. IN, FT. PER ①
H \ A \ B															
4 \ 7-3/8" \ 11-1/2"	B412	0.0421	23.8	B418	0.0529	18.9	B424	0.0637	15.7	B430	0.0745	13.4	B436	0.0853	11.7
6 \ 8" \ 13-1/2"	B612	0.0474	21.1	B618	0.0582	17.2	B624	0.0690	14.5	B630	0.0798	12.5	B636	0.0906	11.0
8 \ 8-5/8" \ 15-1/2"	B812	0.0529	18.9	B818	0.0637	15.7	B824	0.0745	13.4	B830	0.0853	11.7	B836	0.0962	10.4
9 \ 9" \ 16-5/8"	B912	0.0559	17.9	B918	0.0667	15.0	B924	0.0775	12.9	B930	0.0883	11.3	B936	0.0991	10.1
10 \ 9-3/8" \ 17-5/8"	B1012	0.0589	17.0	B1018	0.0697	14.4	B1024	0.0805	12.4	B1030	0.0913	11.0	B1036	0.1021	9.8

DESIGN V	W = 12"			W = 18"			W = 24"			W = 30"			W = 36"		
	CONCRETE			CONCRETE			CONCRETE			CONCRETE			CONCRETE		
DIMENSIONS	DESIGN NO.	CU. YDS. IN, FT. PER ①	LIN. FT. IN, FT. PER ①	DESIGN NO.	CU. YDS. IN, FT. PER ①	LIN. FT. IN, FT. PER ①	DESIGN NO.	CU. YDS. IN, FT. PER ①	LIN. FT. IN, FT. PER ①	DESIGN NO.	CU. YDS. IN, FT. PER ①	LIN. FT. IN, FT. PER ①	DESIGN NO.	CU. YDS. IN, FT. PER ①	LIN. FT. IN, FT. PER ①
H \ A \ B															
4 \ 6" \ 11-3/8"	V412	0.0396	25.3	V418	0.0504	19.9	V424	0.0612	16.4	V430	0.0720	13.9	V436	0.0828	12.1
6 \ 6" \ 13-3/8"	V612	0.0426	23.5	V618	0.0534	18.7	V624	0.0642	15.6	V630	0.0750	13.4	V636	0.0858	11.7
8 \ 6" \ 15-3/8"	V812	0.0457	21.9	V818	0.0565	17.7	V824	0.0673	14.9	V830	0.0781	12.8	V836	0.0889	11.3
9 \ 6" \ 16-3/8"	V912	0.0472	21.2	V918	0.0580	17.2	V924	0.0688	14.5	V930	0.0796	12.6	V936	0.0904	11.1
10 \ 6" \ 17-3/8"	V1012	0.0487	20.5	V1018	0.0595	16.8	V1024	0.0703	14.2	V1030	0.0811	12.4	V1036	0.0919	10.9

APPROVED MARCH 11, 1994	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION	SPECIFICATION REFERENCE	STANDARD PLATE NO.
R.H. Campbell ACTING STATE DESIGN ENGINEER	CONCRETE CURB AND GUTTER DESIGN B AND DESIGN V	2531 REVISION DATE 2-28-05	7100H

ANOKA COUNTY HIGHWAY DEPARTMENT



ADT <= 5,000	5,000 < ADT <= 10,000	ADT > 10,000
2.0" SPWEB340C	1.5" SPWEB340E	2.0" SPWEB340F
2.0" SPWEB340C	1.5" SPWEB340E	2.0" SPWEB340F
N/A	2.0" SPNW330B	2.5" SPNW330B
6.0" CLASS 5	6.0" CLASS 5	6.0" CLASS 5

MIX DESIGN (2360 SPEC)

ANOKA COUNTY

ALL DISTURBED SOIL MUST BE SEEDED, MULCHED, AND DISK ANCHORED IN ACCORDANCE WITH MN/DOT STANDARD SPECIFICATIONS. RAPID-DEGRADABLE STRAW BLANKET SHALL BE USED IN AREAS OF HIGH EROSION.

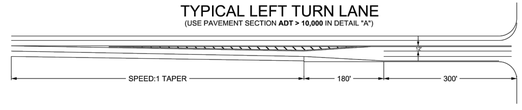
Base and Bituminous Construction Detail

NOT TO SCALE
DETAIL A
September 2019

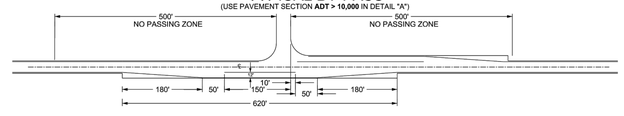
FILE NAME: DGN

ANOKA COUNTY HIGHWAY DEPARTMENT

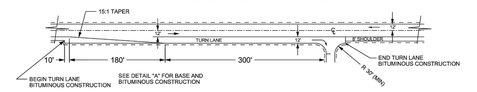
TYPICAL LEFT TURN LANE
(USE PAVEMENT SECTION **ADT > 10,000** IN DETAIL "A")



TYPICAL BY-PASS
(USE PAVEMENT SECTION **ADT > 10,000** IN DETAIL "A")



TYPICAL RIGHT TURN LANE



ANOKA COUNTY

ALL DISTURBED SOIL MUST BE SEEDED, MULCHED, AND DISK ANCHORED IN ACCORDANCE WITH MN/DOT STANDARD SPECIFICATIONS. RAPID-DEGRADABLE STRAW BLANKET SHALL BE USED IN AREAS OF HIGH EROSION.

Turn/Bypass Lane Addition On Existing Highway

NOT TO SCALE
EXHIBIT 1
January 2020

FILE NAME: DGN

NO	DATE	BY	CKD	APPR	COMMENT

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.

Print Name: Michael Nielson

Michael J. Nielson

Date 08/29/2022 License # 23623

PRELIMINARY	DRAWN BY DJD
DESIGN REVIEW	DESIGNED BY JJG
PERMIT SUBMITTAL	CHECKED BY MJN
CONSTRUCTION DOCUMENTS	PROJECT NO. 22377

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DETAIL SHEET

Anoka County, MN
Ambassador Blvd. Right Turn Lane

St. Francis, MN

SHEET
C3.01
3 OF 11
REV.

22.05 (LMS TECH) | DAVID DANZL | 8/25/2022 11:55:54 AM
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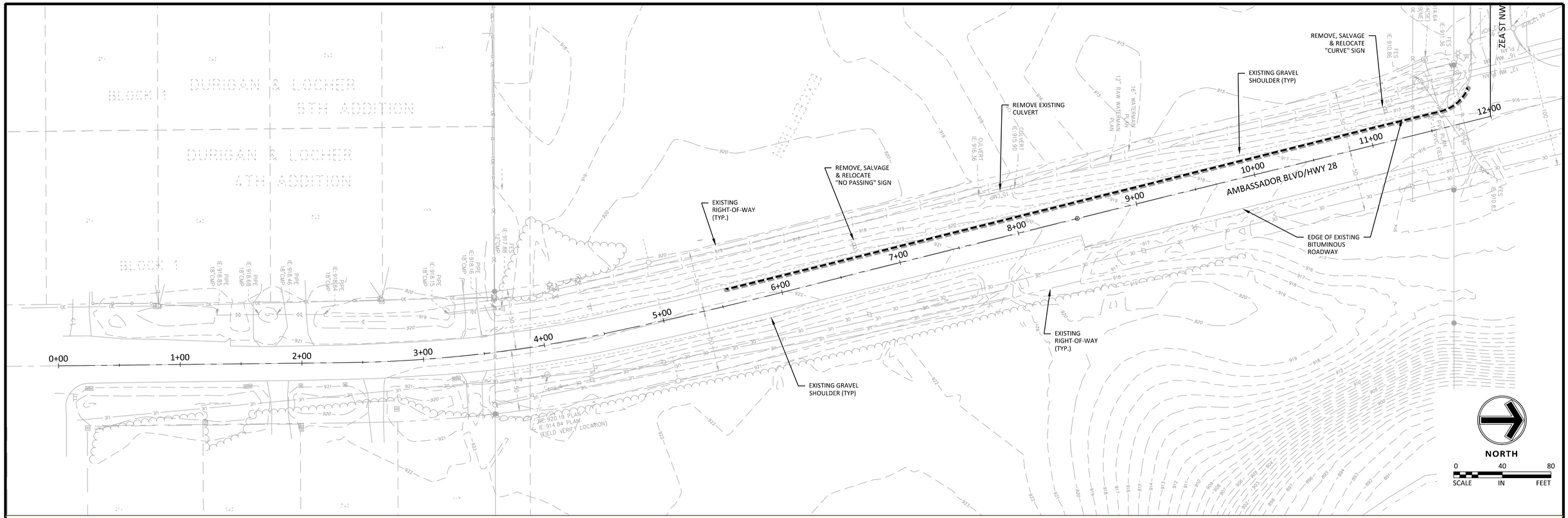

LEGEND

- FOUND MONUMENT
- SET MONUMENT MARKED XXXXX
- ELECTRIC METER
- LIGHT
- AIR CONDITIONER
- GUY ANCHOR
- HANDICAP STALL
- UTILITY POLE
- POST
- SIGN
- MAILBOX
- WATERMAIN
- SANITARY SEWER
- STORM SEWER
- FLARED END SECTION
- TELEPHONE PEDESTAL
- ELECTRIC TRANSFORMER
- GAS METER
- OVERHEAD WIRE
- CHAIN LINK FENCE
- IRON FENCE
- WIRE FENCE
- WOOD FENCE
- RIGHT-OF-WAY LINE
- EASEMENT LINE
- SETBACK LINE
- RESTRICTED ACCESS
- CONCRETE CURB
- BUILDING LINE
- BUILDING CANOPY
- BIT
- CONC

DEMOLITION LEGEND

- 2" MILL BITUMINOUS SURFACE
- SAW CUT EXISTING PAVEMENT

THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE PLANS IS A UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF ASCE/CI 38-02, TITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, BY CONTACTING THE NOTIFICATION CENTER (GOPHER STATE ONE FOR MINNESOTA). THE CONTRACTOR AND/OR SUBCONTRACTOR AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY HIS OR HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES (UNDERGROUND AND OVERHEAD).

IF THE CONTRACTOR ENCOUNTERS ANY DRAIN TILE WITHIN THE SITE, HE OR SHE SHALL NOTIFY THE ENGINEER WITH THE LOCATION, SIZE, INVERT AND IF THE TILE LINE IS ACTIVE. NO DRAIN TILE SHALL BE BACKFILLED WITHOUT APPROVAL FROM THE PROJECT ENGINEER.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

NO	DATE	BY	CKD	APPR	COMMENT

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Print Name: Michael Nielson

Michael J. Nielson

Date 08/29/2022 License # 23623

PRELIMINARY

DESIGN REVIEW

PERMIT SUBMITTAL

CONSTRUCTION DOCUMENTS

DRAWN BY DJD

DESIGNED BY JJG

CHECKED BY MJN

PROJECT NO. 22377

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EXISTING CONDITIONS & REMOVAL PLAN

Anoka County, MN

Ambassador Blvd. Right Turn Lane

St. Francis, MN

SHEET
C4.01
4 OF 11
REV.

22.0S (LMS TECH) | DAVID DANZL | 7/11/2022 12:21:48 PM
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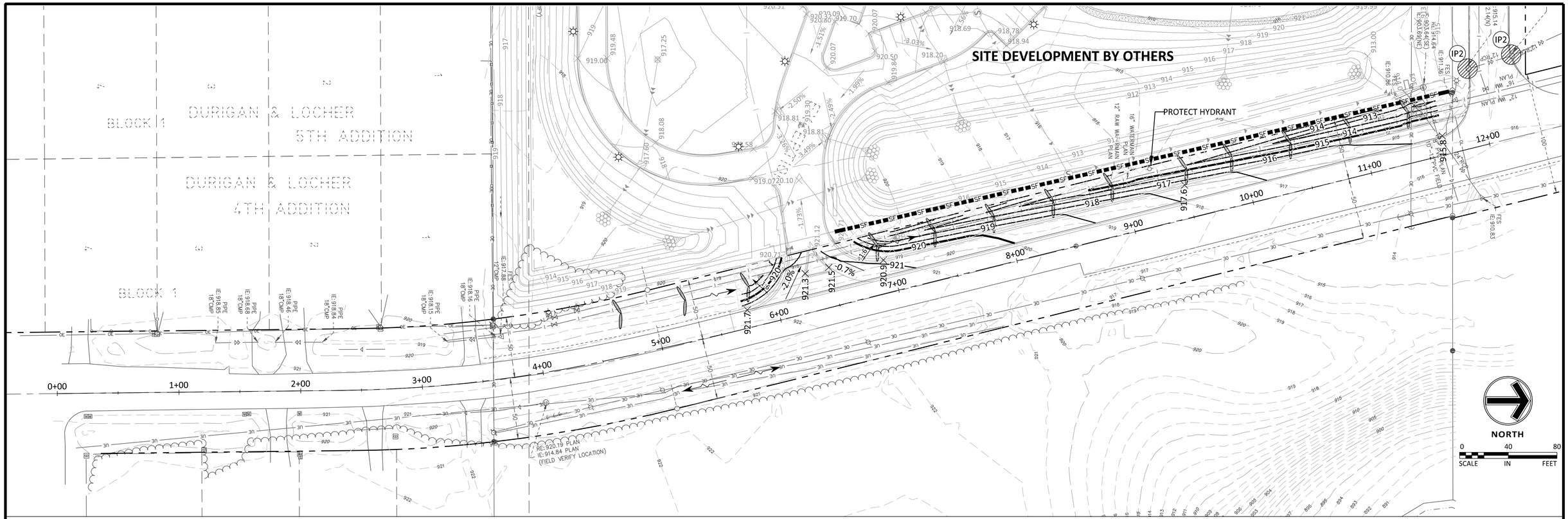

NOTES

1. CONTRACTOR TO STABILIZE DENUDED AREAS WITHIN 7 DAYS OF ROUGH GRADING OR INACTIVITY.
2. SOIL STOCKPILES SHALL BE FIT WITH SEDIMENT-TRAPPING MEASURES.
3. SOIL STOCKPILES SHALL BE STABILIZED WITHIN 7 DAYS OF INACTIVITY.
4. THE TRANSPORT OF SEDIMENT BY RUNOFF OR VEHICLE TRACKING ONTO PAVED SURFACES SHALL BE MINIMIZED.
5. ALL TRACKED SEDIMENT SHALL BE SWEPT AT THE END OF EACH DAY.
6. UPON DISCOVERY, ALL NONFUNCTIONAL BMPS WILL BE REPAIRED, REPLACED, OR SUPPLEMENTED BY THE END OF THE NEXT BUSINESS DAY.

THE SUBSURFACE UTILITY INFORMATION SHOWN ON THESE PLANS IS A UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF ASCE/CI 38-02, TITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." THE CONTRACTOR AND/OR SUBCONTRACTORS SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, BY CONTACTING THE NOTIFICATION CENTER (GOPHER STATE ONE FOR MINNESOTA). THE CONTRACTOR AND/OR SUBCONTRACTOR AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES, WHICH MIGHT BE OCCASIONED BY HIS OR HER FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES (UNDERGROUND AND OVERHEAD).

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IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
TEMPORARY CONTROL MEASURES																		
STRIP & STOCKPILE TOPSOIL																		
ROUGH GRADE / SEDIMENT CONTROL																		
TEMPORARY CONSTRUCTION ROADS																		
FOUNDATION / BUILDING CONSTRUCTION																		
SITE CONSTRUCTION																		
PERMANENT CONTROL STRUCTURES																		
FINISH GRADING																		
LANDSCAPING / SEED / FINAL STABILIZATION																		
STORM FACILITIES																		

ITEM	UNIT	QUANTITY
SILT FENCE	LINEAR FEET	518
EROSION CONTROL BLANKET	SQUARE YARD	1,555
BIO-ROLL	LINEAR FEET	312
CONSTRUCTION ENTRANCE	UNIT	0
INLET PROTECTION DEVICE (IP-1)	UNIT	0
INLET PROTECTION DEVICE (IP-2)	UNIT	2

LEGEND

	PROPOSED	EXISTING
CURB & GUTTER		
STORM SEWER	D	
DRAINTILE		
CONTOUR	902	902
RIP RAP		
OVERFLOW ELEV.	EOF 902.5	
SILT FENCE	SF	SF
SILT DIKE	SD	SD
LIMITS OF DISTURBANCE		
SOIL BORINGS		ST. 5 902.5
DIRECTION OF OVERLAND FLOW		
TEMPORARY DIVERSION DITCH		
CHECK DAM		
LIMITS OF DRAINAGE SUB-BASIN		
BIO-ROLL		
INLET PROTECTION DEVICE	IPX	
TEMPORARY STONE CONSTRUCTION ENTRANCE		
TEMPORARY SEDIMENT BASIN	SB	
TEMPORARY STORAGE AND PARKING AREA	TS	
TEMPORARY STABILIZATION MEASURES (SEED, MULCH, MATS OR BLANKETS AS OUTLINED IN THE SWPPP)	TSM	
EROSION CONTROL BLANKET - MNDOT 3885, CATEGORY 20		

NO	DATE	BY	CKD	APPR	COMMENT

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.

Print Name: Michael Nielson

Date 08/29/2022 License # 23623

PRELIMINARY | DESIGN REVIEW | PERMIT SUBMITTAL | CONSTRUCTION DOCUMENTS

DRAWN BY DJD | DESIGNED BY JJG | CHECKED BY MJN | PROJECT NO. 22377

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EROSION CONTROL PLAN

Anoka County, MN
Ambassador Blvd. Right Turn Lane

St. Francis, MN

SHEET
C5.01
5 OF 11
REV.

22.05 (LMS TECH) | DAVID DANZL | 8/25/2022 2:42:44 PM
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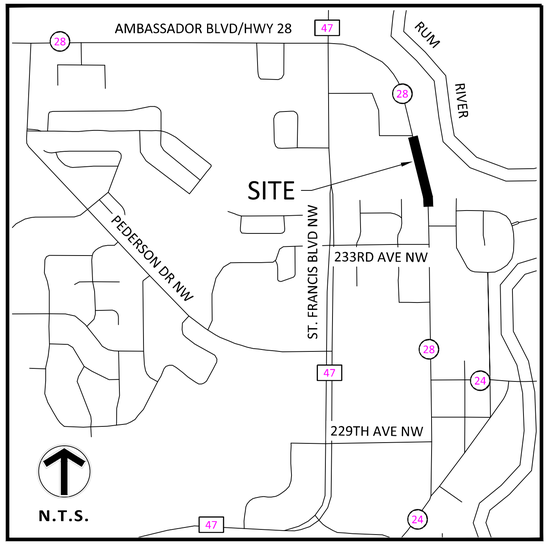
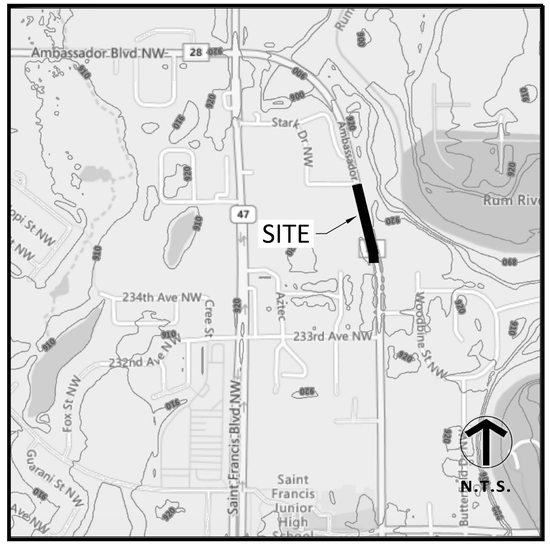
EROSION & SEDIMENTATION CONTROL NOTES & DETAILS / "SITE MAP"



SITE LOCATION MAP
NOT TO SCALE



USGS MAP
NOT TO SCALE

AREA SUMMARY IN ACRES

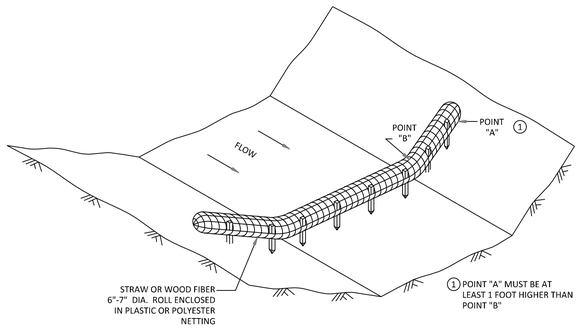
PAVEMENT AREA	XX.XX AC±
BUILDING AREA	XX.XX AC±
SEEDED AREA	XX.XX AC±
TOTAL DISTURBED	0.66 AC±
PRE - CONSTRUCTION IMPERVIOUS	XX.XX AC±
POST - CONSTRUCTION IMPERVIOUS	XX.XX AC±

DEVELOPER/OWNER: XXXXXXX XXXXXXX XXXXXXXX XXX-XXX-XXXX
SITE OPERATOR / GENERAL CONTRACTOR
SUPERINTENDENT:

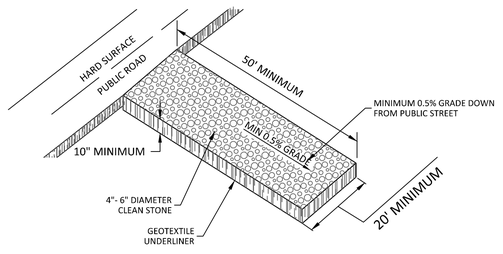
GENERAL EROSION NOTES:

MAINTENANCE NOTES:

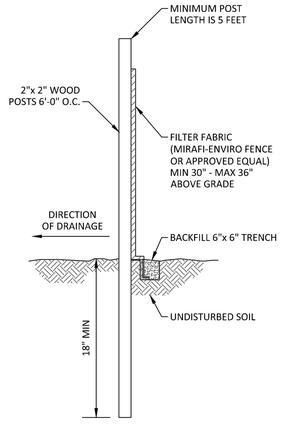
SEQUENCE OF CONSTRUCTION



BR BIO-ROLLS
N.T.S.



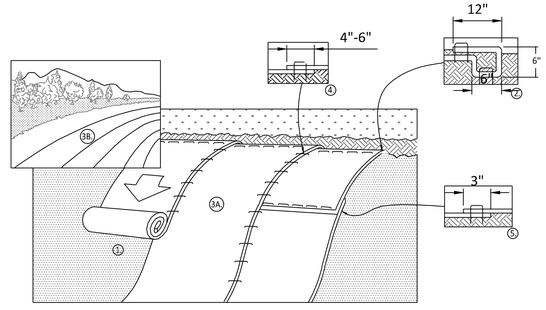
TEMPORARY STONE CONSTRUCTION EXIT
N.T.S.



NOTES:

1. MAXIMUM SPACING BETWEEN POSTS (CENTER TO CENTER) SHALL NOT EXCEED 6 FEET IN SPACING.
2. A MINIMUM OF 5 FASTENERS PER POST

SF PREASSEMBLED SILT FENCE- WOOD POSTS (MNDOT 3886)
N.T.S.



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH AS SHOWN IN DETAIL 2. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURES RECOMMENDATION.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH MINIMUM 6" OVERLAP. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
6. PLACE STAPLES/STAKES PER MANUFACTURE'S RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.

NOTES:
1. IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
2. FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION.

EROSION CONTROL BLANKET
NOT TO SCALE

NO	DATE	BY	CKD	APPR	COMMENT

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Print Name: Michael Nielson

Date 08/29/2022 License # 23623

PRELIMINARY	DRAWN BY DJD	
DESIGN REVIEW	DESIGNED BY JJG	
PERMIT SUBMITTAL	CHECKED BY MJN	
CONSTRUCTION DOCUMENTS	PROJECT NO. 22377	

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EROSION CONTROL NOTES & DETAILS

Anoka County, MN
Ambassador Blvd. Right Turn Lane
St. Francis, MN

SHEET
C5.02
6 OF 11
REV.

22.05 (LMS TECH) | DAVID DANZL | 8/25/2022 2:42:44 PM
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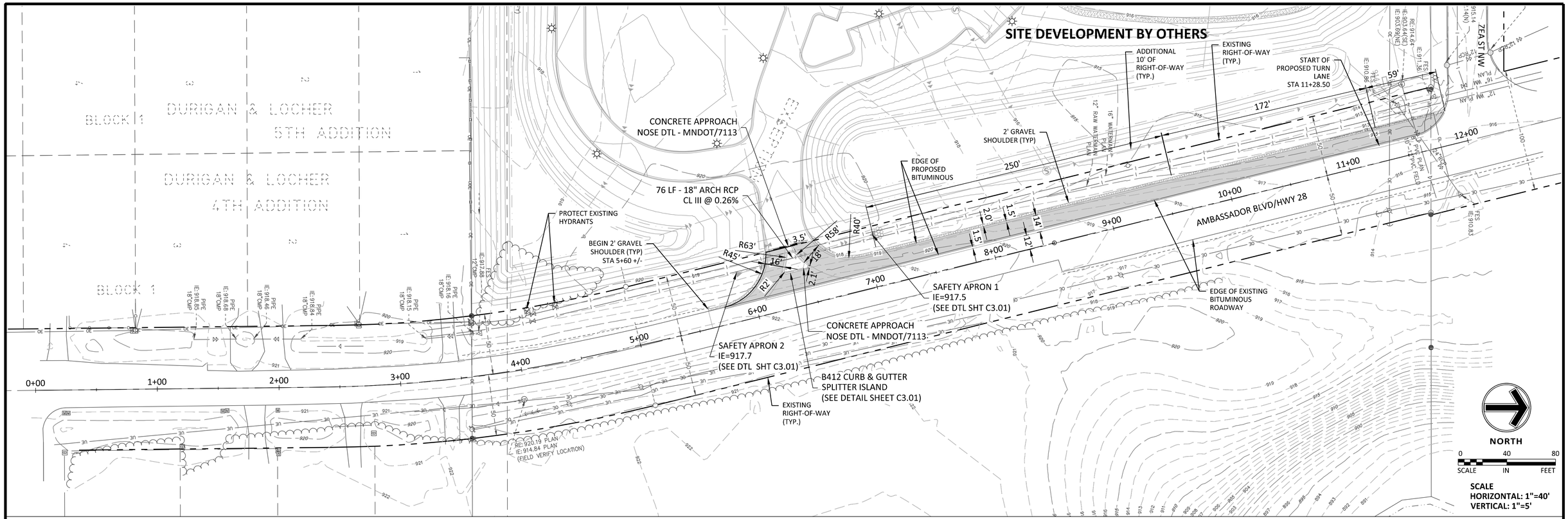

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Date 08/29/2022 License # 23623

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DESIGN REVIEW	
PERMIT SUBMITTAL	
CONSTRUCTION DOCUMENTS	

DRAWN BY	DJD
DESIGNED BY	JJG
CHECKED BY	MJN
PROJECT NO.	22377

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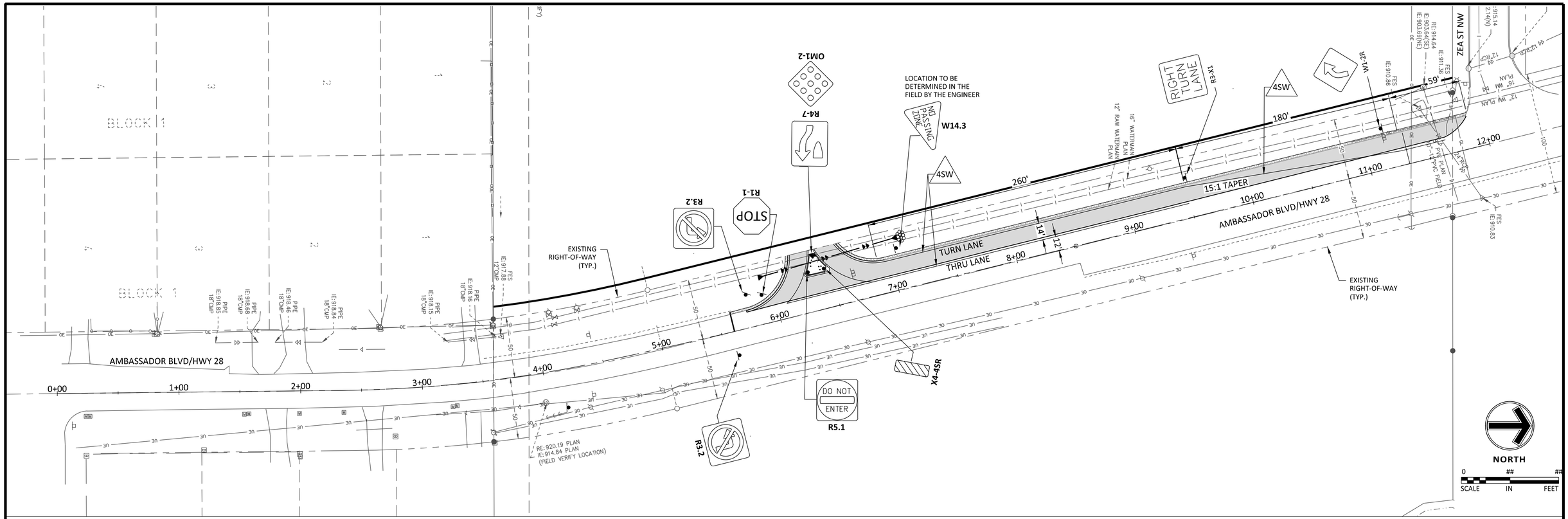
RIGHT TURN LANE PLAN

Anoka County, MN
Ambassador Blvd. Right Turn Lane
St. Francis, MN

SHEET
C6.01
7 OF 11
REV.



STRIPING KEY

EPOXY

COLOR
W=WHITE
Y=YELLOW

PATTERN
S=SOLID
B=BROKEN
D=DOUBLE
T=DOTTED

LINE WIDTH
4=4" 24=24"
6=6"
12=12"

LEGEND

RIGHT TURN ARROW (EPOXY)

LEFT TURN ARROW (EPOXY)

THRU-LEFT TURN ARROW (EPOXY)

NOTES:

1) ALL STRIPING AND STREET MARKINGS SHALL BE EPOXY UNLESS OTHERWISE NOTED.
2) INSTALL NEW SIGN AT LOCATION SHOWN ON PLAN.

NO	DATE	BY	CKD	APPR	COMMENT

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DESIGNED BY JJG

CHECKED BY MJN

PROJECT NO. 22377

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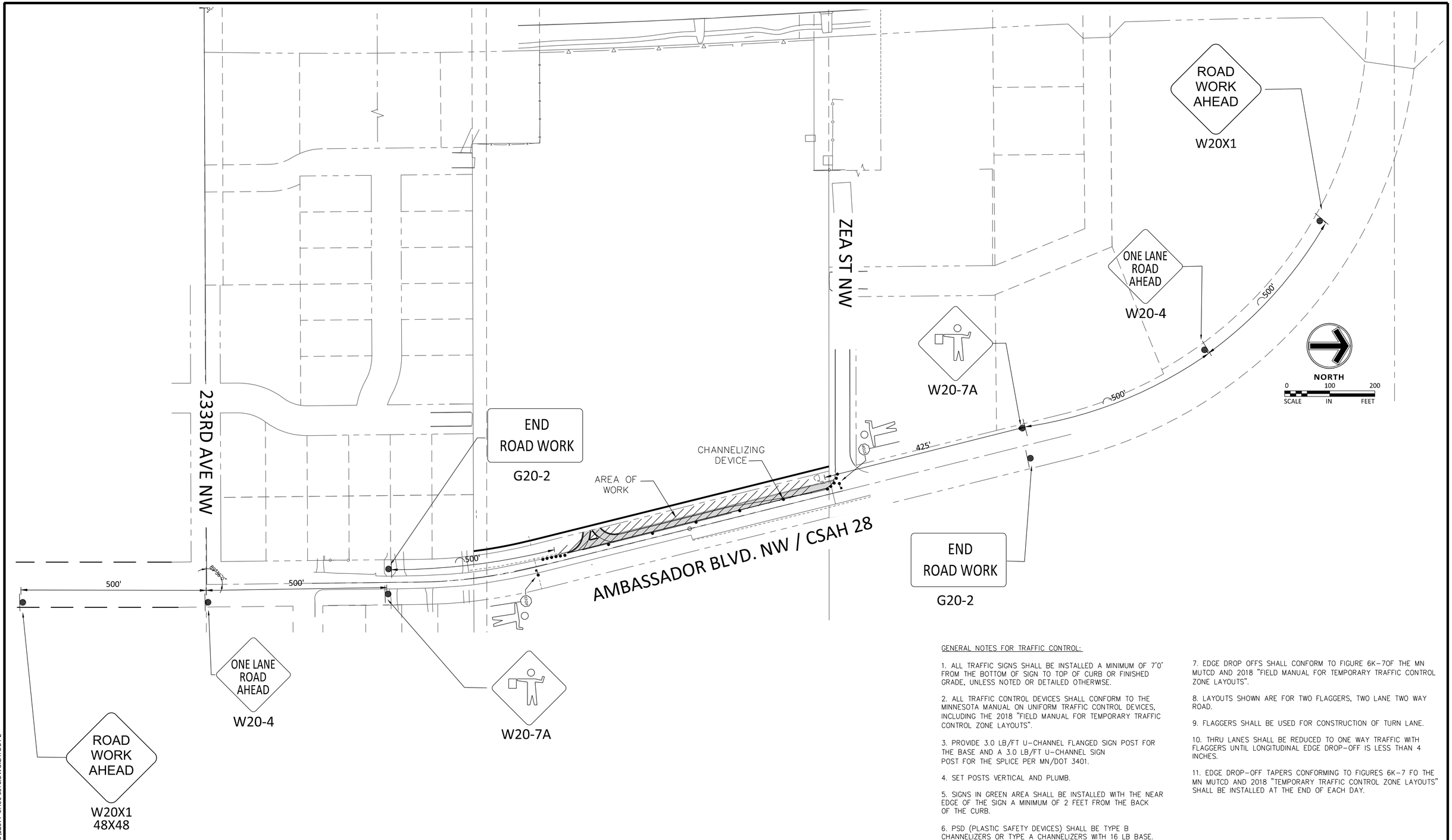
SIGNING AND STRIPING PLAN

Anoka County, MN
Ambassador Blvd. Right Turn Lane

St. Francis, MN

SHEET
C7.01
8 OF 11
REV.



GENERAL NOTES FOR TRAFFIC CONTROL:

1. ALL TRAFFIC SIGNS SHALL BE INSTALLED A MINIMUM OF 7'0" FROM THE BOTTOM OF SIGN TO TOP OF CURB OR FINISHED GRADE, UNLESS NOTED OR DETAILED OTHERWISE.

2. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE 2018 "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".

3. PROVIDE 3.0 LB/FT U-CHANNEL FLANGED SIGN POST FOR THE BASE AND A 3.0 LB/FT U-CHANNEL SIGN POST FOR THE SPLICE PER MN/DOT 3401.

4. SET POSTS VERTICAL AND PLUMB.

5. SIGNS IN GREEN AREA SHALL BE INSTALLED WITH THE NEAR EDGE OF THE SIGN A MINIMUM OF 2 FEET FROM THE BACK OF THE CURB.

6. PSD (PLASTIC SAFETY DEVICES) SHALL BE TYPE B CHANNELIZERS OR TYPE A CHANNELIZERS WITH 16 LB BASE. DRUMS MUST BE USED IN TAPERS.

7. EDGE DROP OFFS SHALL CONFORM TO FIGURE 6K-7OF THE MN MUTCD AND 2018 "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".

8. LAYOUTS SHOWN ARE FOR TWO FLAGGERS, TWO LANE TWO WAY ROAD.

9. FLAGGERS SHALL BE USED FOR CONSTRUCTION OF TURN LANE.

10. THRU LANES SHALL BE REDUCED TO ONE WAY TRAFFIC WITH FLAGGERS UNTIL LONGITUDINAL EDGE DROP-OFF IS LESS THAN 4 INCHES.

11. EDGE DROP-OFF TAPERS CONFORMING TO FIGURES 6K-7 FO THE MN MUTCD AND 2018 "TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS" SHALL BE INSTALLED AT THE END OF EACH DAY.

NO	DATE	BY	CKD	APPR	COMMENT

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Print Name: Michael Nielson

Michael J Nielson

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TRAFFIC CONTROL PLAN

Anoka County, MN
Ambassador Blvd. Right Turn Lane

St. Francis, MN

SHEET
C7.02
9 OF 11
REV.

22.05 (LMS TECH) | DAVID DANZL | 8/25/2022 12:50:14 PM
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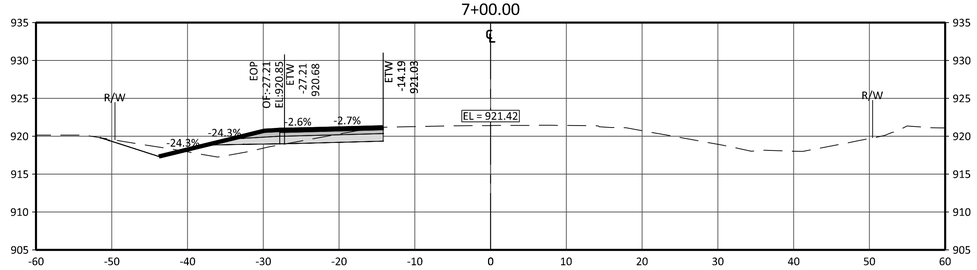
7+00.00



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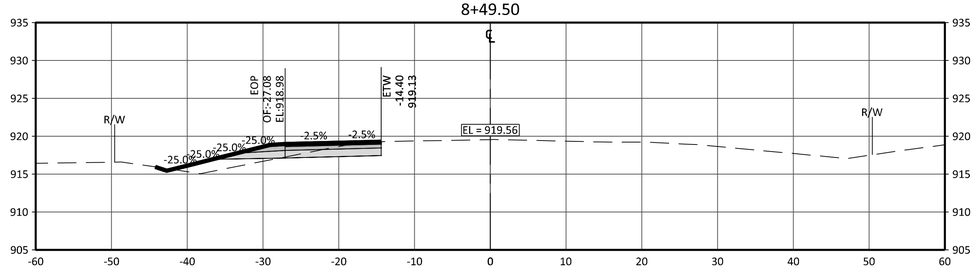

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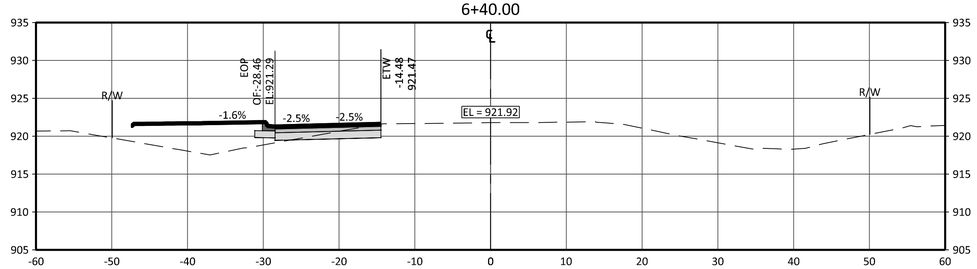

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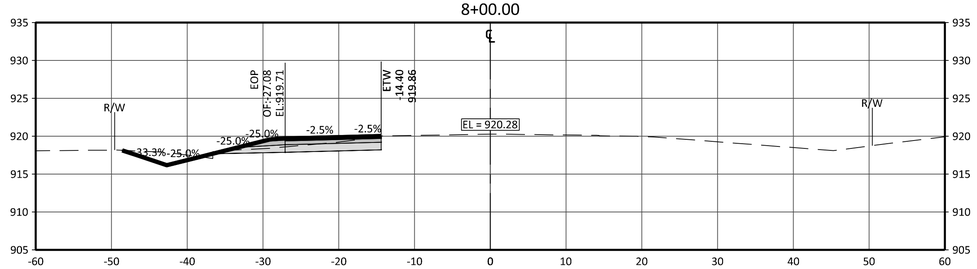

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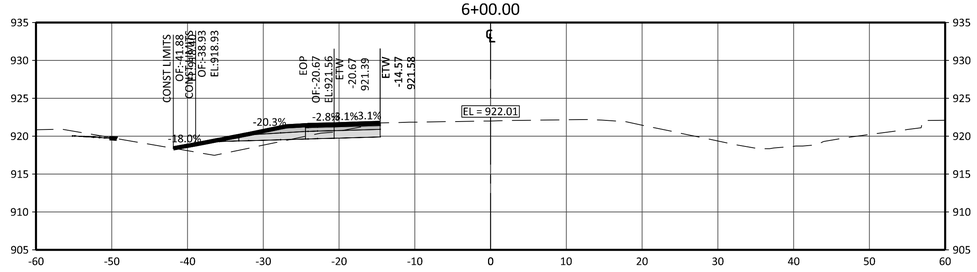

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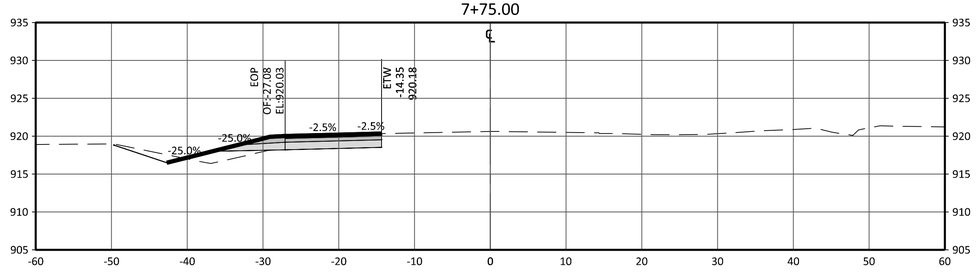

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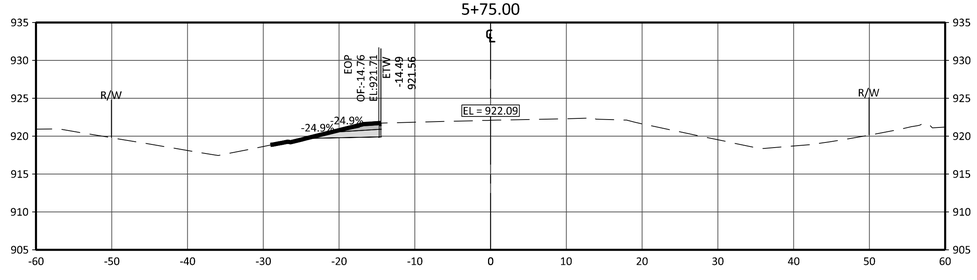

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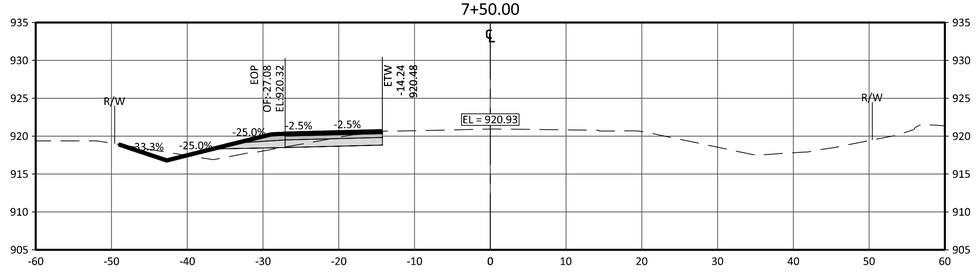

LEGEND

R/W = RIGHT-OF-WAY
℄ = CENTERLINE OF ROAD
OF = CENTERLINE OFFSET
EL = ELEVATION
ETW = EDGE OF TRAVEL WAY
EOP = EDGE OF PAVEMENT

SCALE
HORIZONTAL: 1"=10'
VERTICAL: 1"=10'

NO	DATE	BY	CKD	APPR	COMMENT

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.

Print Name: Michael Nielson

Michael J. Nielson

Date 08/29/2022 License # 23623

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DRAWN BY DJD
DESIGNED BY JJG
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PROJECT NO. 22377

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CROSS SECTIONS

Anoka County, MN
Ambassador Blvd. Right Turn Lane

St. Francis, MN

SHEET
C8.01
10 OF 11
REV.

22.05 (LMS TECH) | DAVID DANZL | 8/2/2022 9:28:01 AM
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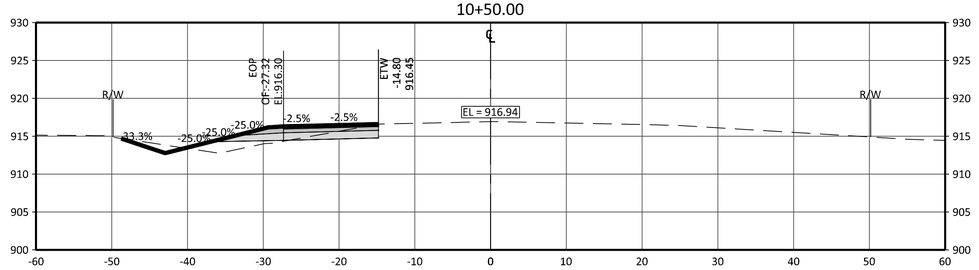

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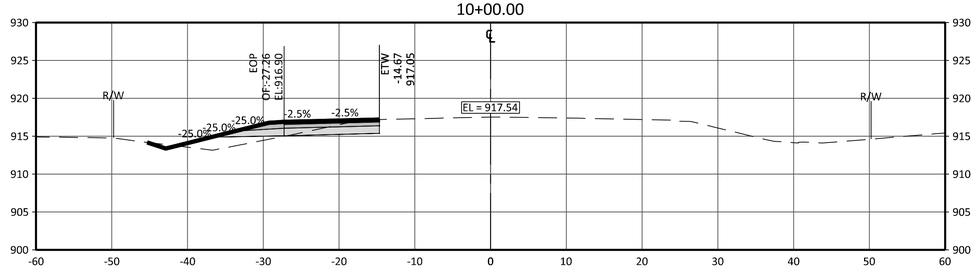

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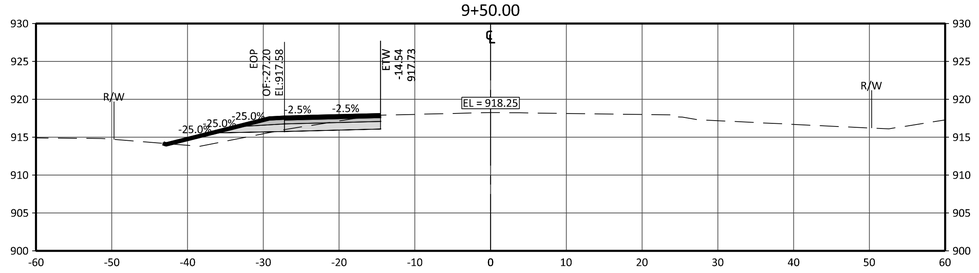

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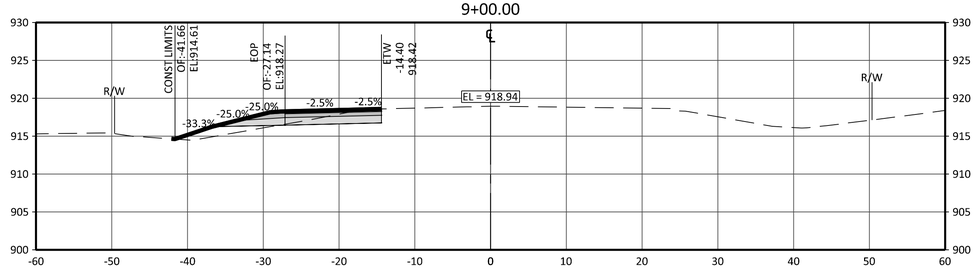

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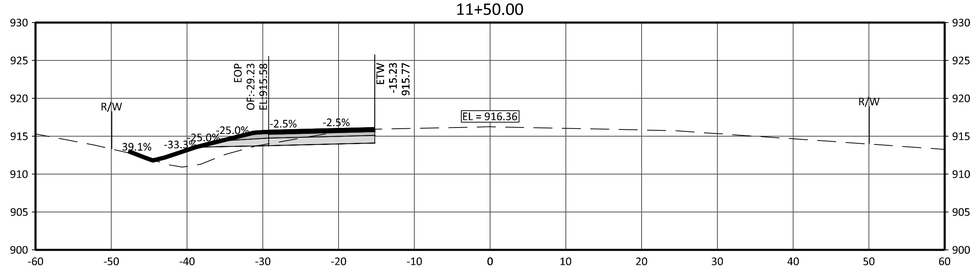

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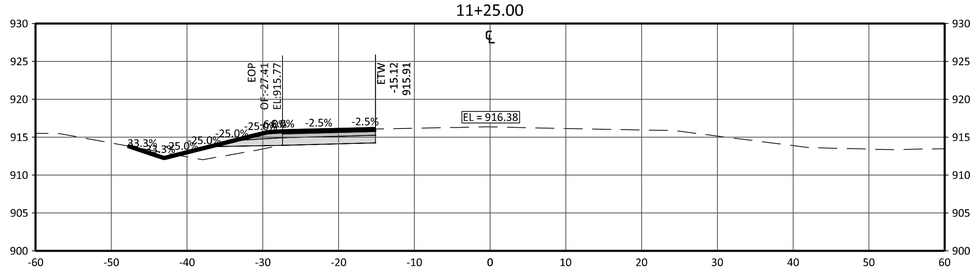

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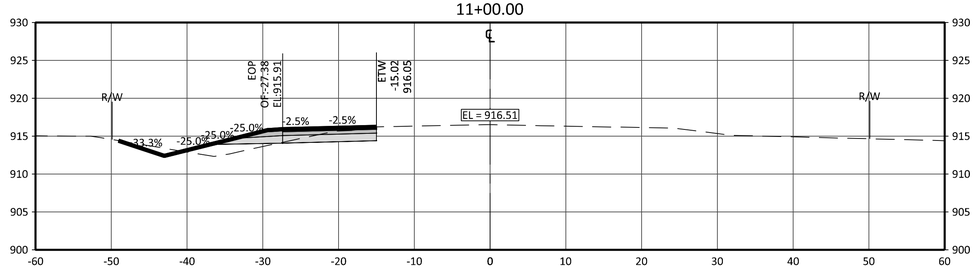

LEGEND

R/W = RIGHT-OF-WAY
℄ = CENTERLINE OF ROAD
OF = CENTERLINE OFFSET
EL = ELEVATION
ETW = EDGE OF TRAVEL WAY
EOP = EDGE OF PAVEMENT

SCALE
HORIZONTAL: 1"=10'
VERTICAL: 1"=10'

NO	DATE	BY	CKD	APPR	COMMENT

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.

Print Name: Michael Nielson

Michael J. Nielson

Date 08/29/2022 License # 23623

PRELIMINARY
DESIGN REVIEW
PERMIT SUBMITTAL
CONSTRUCTION DOCUMENTS

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