

GOVERNING SPECIFICATIONS

THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE INSTALLED IN ACCORDANCE WITH THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MNMUTCD), AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

THIS PLAN CONTAINS 8 SHEETS

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	DRAINAGE TABULATION
4-5	TYPICAL SECTIONS
6	DETAILS
7	REMOVAL PLAN
8	CONSTRUCTION PLAN

Approve		NTY ENGINEER Hory 11,20 12
		TITLE SHEET
JECT	22-14-116	Sheet <u>1</u> of <u>8</u> Sheets

		STATEMENT OF ESTIMATED QUA	NTITIES		
Notes	ltem Number	ITEM DESCRIPTION	Unit	TOTAL PROJECT QUANTITIES ESTIMATED	
	2021.501	MOBILIZATION	LUMP SUM	1	
	2104.502	REMOVE METAL APRON	EACH	1	
	2104.502	SALVAGE SIGN	EACH	3	
	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	465	
	2104.503	REMOVE CURB AND GUTTER	LIN FT	13	
2	2104.504	REMOVE BITUMINOUS PAVEMENT	SQ YD	116	
2	2104.518	REMOVE BITUMINOUS WALK	SQ FT	3350	
	2105.607	COMMON EXCAVATION	CU YD	101	
	2105.607	GRANULAR BORROW (LV)	CU YD	191	
	2130.523	WATER	MGALLON	3	
3	2211.509	AGGREGATE BASE CLASS 5	TON	276	
	2232.504	MILL BITUMINOUS SURFACE (2.0")	SQ YD	56	
	2357.506	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	11	
4	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3;B)	TON	58	
	2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (3;C)	TON	74	
6	2506.502	CASTING ASSEMBLY	EACH	1	
1,5	2506.503	CONSTRUCT DRAINAGE STRUCTURE DESIGN 48-4020	LIN FT	3.2	
	2531.503	CONCRETE CURB AND GUTTER DESIGN B424	LIN FT	387	
7,8	2563.601	TRAFFIC CONTROL	LUMP SUM	1	
9	2563.613	PORTABLE CHANGEABLE MESSAGE SIGN	UNIT DAY	20	
	2564.502	INSTALL SIGN	EACH	3	
10	2573.502	STORM DRAIN INLET PROTECTION	EACH	3	
	2573.503	SEDIMENT CONTROL LOG TYPE COMPOST	LIN FT	450	
	2574.507	COMMON TOPSOIL BORROW	CU YD	118	
11	2575.508	HYDRAULIC REINFORCED FIBER MATRIX	POUND	400	
12	2582.503	4" SOLID LINE MULTI-COMPONENT	LIN FT	410	

	CONSTRUCTION NOTES
1	REFERENCE DETAILS (PAGE 5)
2	REFERENCE DETAILS (PAGE 5) FOR REMOVAL DETAILS
3	GRAVEL BASE FOR BITUMINOUS WALK AND SHOULDER.
4	ITEM FOR BITUMINOUS TRAIL
5	ITEM INCLUDES BITUMINOUS PATCHING AROUND NEW CURB, STORM STRUCTURE REPAIRS, AND ANY POTHOLES.
6	PAY HEIGHT IS MEASURED FROM INVERT OF OUTLET PIPE TO TOP OF PRECAST CONCRETE STRUCTURE PLUS AN ALLOWANCE OF 0.70 FEET FOR THE DEPTH OF THE CONCRETE BASE, REGARDLESS OF ITS ACTUAL THICKNESS. CONCRETE ADJUSTMENT RINGS ARE INCIDENTAL. CONNECTIONS TO EXISTING STORM SEWER ARE INCIDENTAL.
7	ITEM INCLUDES FULL REPLACEMENT OF CASTING ADJUSTMENT RINGS. SEE STORM TABULATIONS FOR RING HEIGHTS. CASTINGS IN ROADWAY SHALL BE INSTALLED BETWEEN BASE AND WEAR LIFT PAVING
8	CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY SIGNAGE WHENEVER EXISTING SIGNAGE IS REMOVED. TEMPORARY SIGNAGE SHALL BE INCIDENTAL TO TRAFFIC CONTROL.
9	ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO, AND BE INSTALLED IN ACCORDANCE WITH, THE MOST CURRENT REVISION OF THE " MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES ". THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL LAYOUT/PLAN TO THE ENGINEER FOR REVIEW AND APPROVAL AT LEAST 14 DAYS PRIOR TO COMMENCING WORK.
10	2 MESSAGE BOARDS, ONE ON THE EACH END OF PROJECT, SHALL BE INSTALLED 10 DAYS PRIOR TO ANY CONSTRUCTION; REFERENCE STRIPING PLAN FOR DETAILS.
11	ALL DRAINAGE STRUCTURES AFFECTED BY THIS PROJECT SHALL HAVE INLET PROTECTION.
12	TYPE 3 FERTILIZER AND TYPE 25-121 SEED ARE INCIDENTAL TO THIS ITEM. SEE "BASIS OF PLANNED QUANTITIES" FOR APPLICATION RATES.
13	FINAL STRIPING SHALL BE INSTALLED WITHIN 72 HOURS OF COMPLETION OF MAINLINE WEAR COURSE PAVING. CANNOT BE INSTALLED SOONER THAN 48 HOURS.

L			
	2357	BITUMINOUS MATERIAL FOR TACK COAT	0.05 GAL / SQ YD
	2211	AGGREGATE BASE CLASS 5	1.8 TONS / CU YD
	2360	ALL BITUMINOUS PAVEMENT	115 LBS / SQ YD / IN THICKNESS
	2575	SEED MIXTURE 25-121	61 LBS / ACRE
	2574	FERTILIZER TYPE 3	350 LBS./ ACRE
	2575	HYDRAULIC REINFORCED FIBER MATRIX	3900 LBS./ ACRE

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT

	MNDOT STANDA
PLATE NO.	DES
4011E	PRECAST CONCRETE BASE
4020J	MANHOLE OR CATCH BASIN (FOR USE V
40203	SHEETS)
4024A	48" DIA. PRECAST SHALLOW DEPTH CA
4026A	CONCRETE ENCASED CONCRETE ADJU
4132G	CATCH BASIN FRAME CASTING (FOR SQ
4154B	CATCH BASIN GRATE CASTING - CASTIN
7100H	CONCRETE CURB AND GUTTER (DESIG
7111J	INSTALLATION OF CATCH BASIN CASTIN
8000K	TEMPORARY CHANNELIZERS (3 SHEETS

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. ANOKA COUNTY DRAWN BY ______ DATE ______ AARON P. ANDERSON PRINT NAME: DESIGN BY <u>SPH</u> DATE <u>1/27/2022</u> ANOKA COUNTY HIGHWAY DEPT. SIGNATURE:
 NO
 DATE
 BY
 CKD
 APPR
 REVISION

 NAME:
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05/09/2022 6:57:36 AM CHECKED BY CSO DATE 2/25/2022 DATE: _____04-07-2022 ____ LICENSE NO. _____58657



BASIS OF PLANNED QUANTITIES

ARD PLATES

SCRIPTION

WITH OR WITHOUT TRAFFIC LOADS) (2

TCH BASIN - DESIGN SD

USTING RINGS

QUARE GRATE) - CASTING NO. 805

NG NO. 816

GN B AND DESIGN V)

NGS (CONCRETE CURB AND GUTTER)

S)

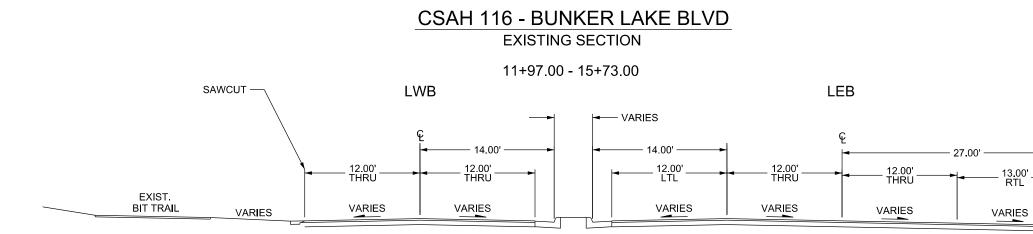
	STATEMENT OF ESTIMATED QUANTITIES
OJECT22-14-116	Sheet <u>2</u> of <u>8</u> Sheets

STORM DRAINAGE TAB															
NUMBER	TYPE	ACTION	NEW CASTING TYPE	FURNISH AND INSTALL CASTING ASSEMBLY	RING HEIGHT (INCIDENTAL)	REMOVE STRUCTURE	GROUT CATCH BASIN OR MANHOLE		DRAINAGE	DRAINAGE	CONSTRUCT DRAINAGE STRUCTURE DESIGN 60"	CONSTRUCT DRAINAGE STRUCTURE DESIGN 72"	CONSTRUCT DRAINAGE STRUCTURE SPECIAL	CONNECT TO EXISTING STORM SEWER (INCIDENTAL)	NOTES
				EACH	LIN FT	EACH	EACH	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EACH	
100 4	48-4020		B-9	1						2.5				1	

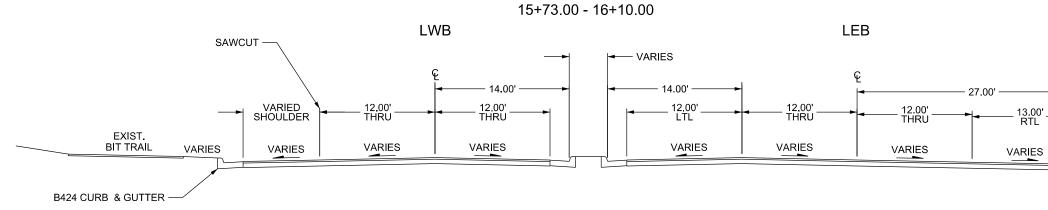
CASTING ASSEMBLIES SUMMARY											
ASSEMBLY RING OR COVER OR GRATE GRATE GRATE CURB BOX DESCRIPTION NOTES QUAN											
B-9 805 816 4132											
		AL 1	CASTIN	IG HEIGHTS ARE TO BE VE							
	ALL MANHOLE COVERS SHOULD BE LABELED AS STORM OR SANITARY										
					HALT MILLING IS COMPLETED						
		MANHOLE C	ASTING	IS TO BE RECESSED 1/4" F	ROM TOP OF FINISHED MAT						

							THE STATE OF MINNESOTA.	DRAWN BY <u>SPH</u> DATE <u>1/27/2022</u> DESIGN BY <u>SPH</u> DATE <u>1/27/2022</u>		ANOKA COUNTY		DRAINAGE TABULATION
NO NAME:	DATE 2:\22-01-00\CSAH	BY _116_(PA	CKD [H_AT_47]	APPR REVISION \Base\Proposed\DETAILS.dgn	05/09/2022	6:57:42 AM	SIGNATURE:	CHECKED BY DATE	ANOKA COUNTY	HIGHWAY DEPT.	COUNTY PROJECT22-14-116	Sheet <u>3</u> of <u>8</u> Sheets

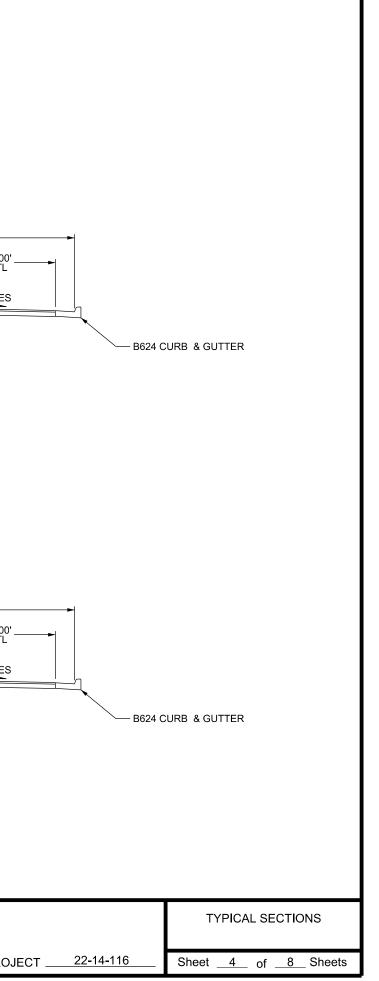
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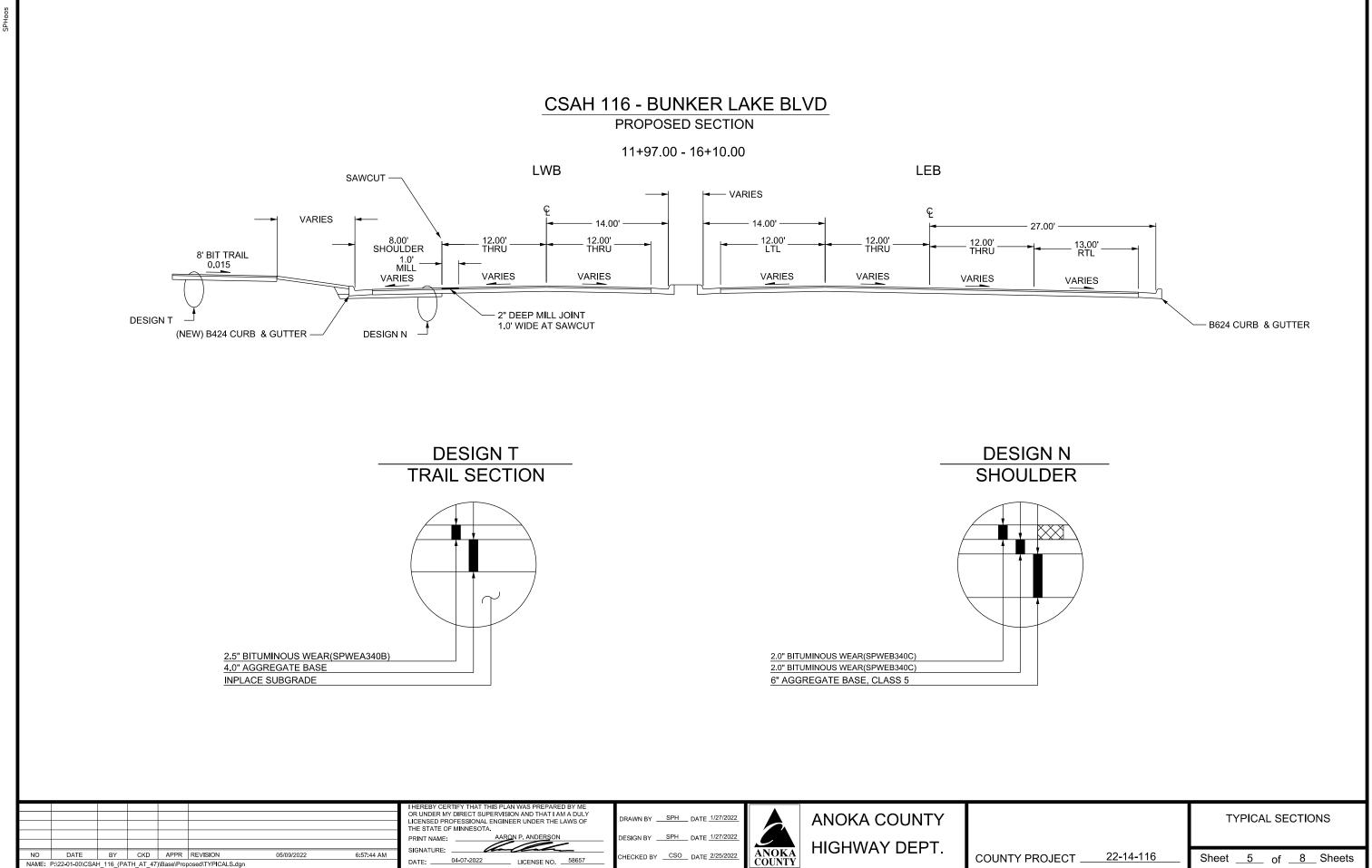


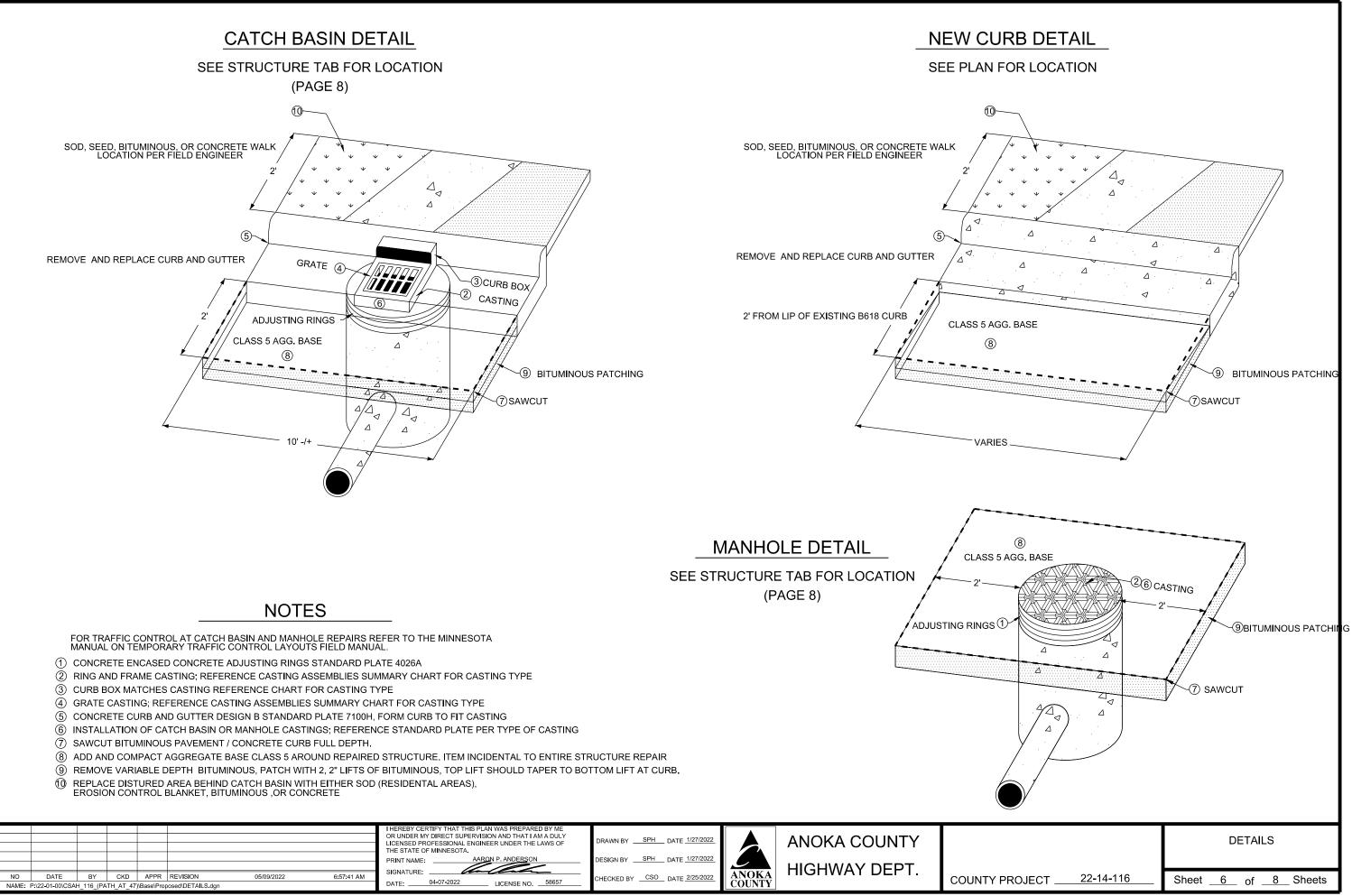




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_		_						PRINT NAME AARON P. ANDERSON	DESIGN BYSPHDATE _1/27/2022			
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NA	ME: P:\22-01-00\CS	AH 116 (P	ATH AT 47)\Base\Pro	posed\TYPICALS.dgr	1		DATE:04-07-2022 LICENSE NO58657		COUNTY		COUNTEROJ
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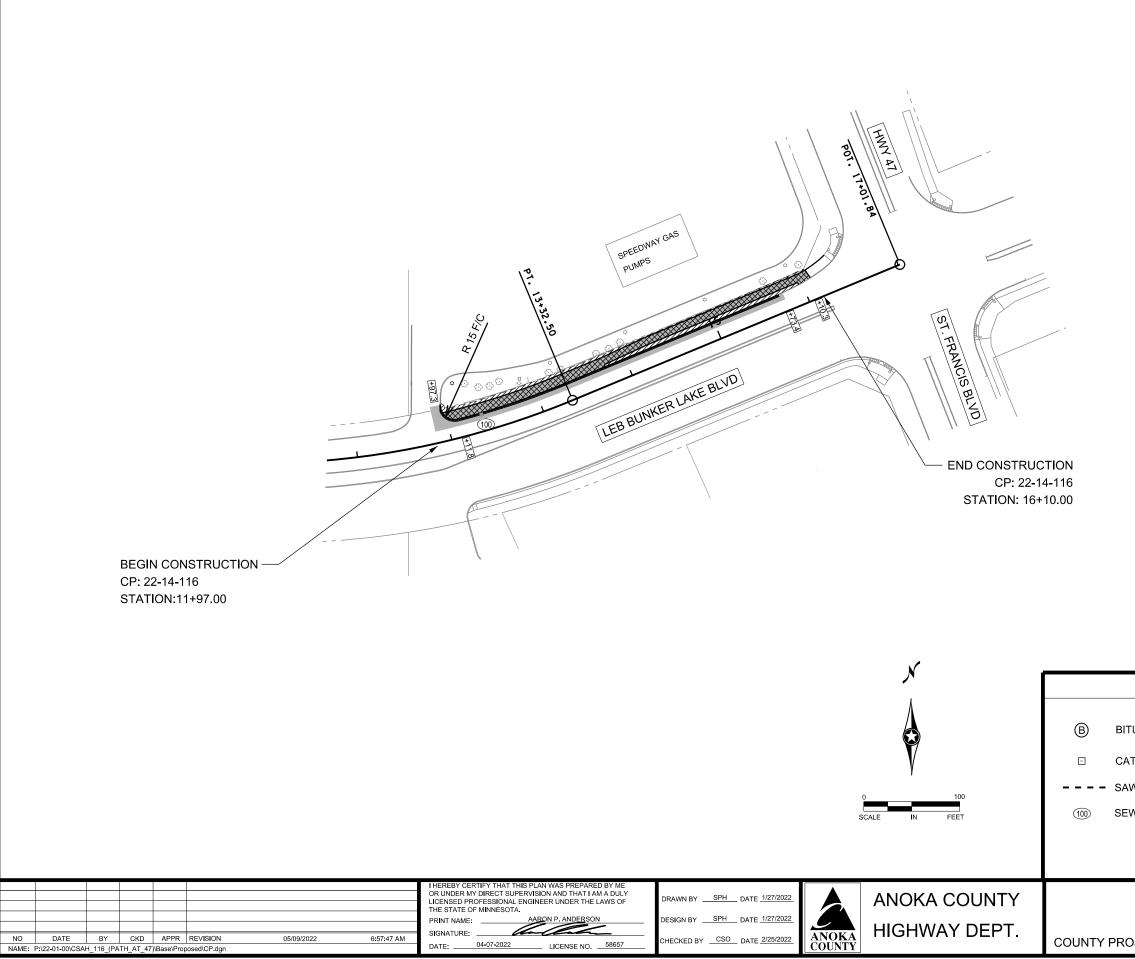


① CONCRETE SAWCUT FOR CURB AND GUTTER REMOVAL SHALL BE INCIDENTAL TO CURB AND GUTTER REMOVAL (2) MILL BITUMINOUS SURFACE (2.0") ALONG SAWCUT, 1' WIDE ③ SALVAGE EXISTING SIGNS SPEEDWAY GAS PUMPS 3 င္ LWB CSAH 116 1 SAWCUT ON -BUNKERLAKE BLVD FOG LINE REMOVE APRON -**BEGIN CONSTRUCTION** -CP: 22-14-116 STATION: 11+97.00 B BI -C. SA SE (100) SCALE FEET 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. ANOKA COUNTY DRAWN BY ______ DATE ______ AARON ON P. ANDERSON PRINT NAME: DESIGN BY _____SPH___DATE _____27/2022 ANOKA COUNTY HIGHWAY DEPT. SIGNATURE:
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END CONSTRUCTION CP: 22-14-116 STATION:16+10.00

LEGEND			
REMOVE BITUMINOUS WALK/PAVEMENT			
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REMOVAL PLAN			
STA <u>11+97</u> TO <u>16+10</u>			
Sheet <u>7</u> of <u>8</u> Sheets			



ITUMINOUS		BITUMINOUS PAVING (SPWEB340C)
ATCH BASIN		BITUMINOUS WALK (SPWEA340B)
	////	RESTORATION AREA
EWER NUMBER LABEL		
		R
		CONSTRUCTION PLAN
		STA <u>11+97</u> TO <u>16+10</u>
ROJECT 22-14-116		Sheet <u>8</u> of <u>8</u> Sheets

LEGEND