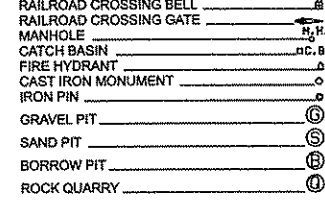
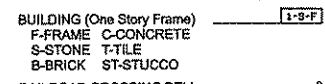
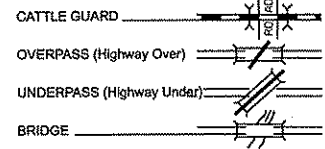
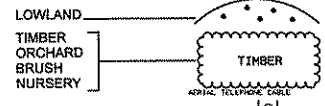
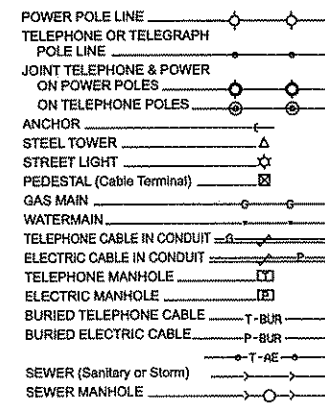


PLAN SYMBOLS

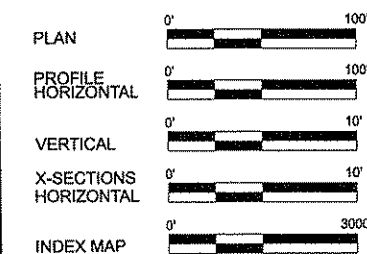
- COUNTY LINE _____
- TOWNSHIP OR RANGE LINE _____
- SECTION LINE _____
- QUARTER LINE _____
- SIXTEENTH LINE _____
- RIGHT OF WAY LINE _____
- SLOPE EASEMENT _____
- EXISTING RIGHT OF WAY _____
- PROPERTY LINE _____
- CORPORATE OR CITY LIMITS _____
- RETAINING WALL _____
- RAILROAD _____
- RAILROAD RIGHT OF WAY _____
- RIVER OR CREEK _____
- DRAINAGE DITCH _____
- CULVERT _____
- DROP INLET _____
- GUARD RAIL _____
- BARBED WIRE FENCE _____
- WOVEN WIRE FENCE _____
- CHAIN LINK FENCE _____
- WOOD FENCE _____
- STONE WALL OR FENCE _____
- HEDGE _____



UTILITY SYMBOLS



SCALES



MINNESOTA DEPARTMENT OF TRANSPORTATION ANOKA COUNTY

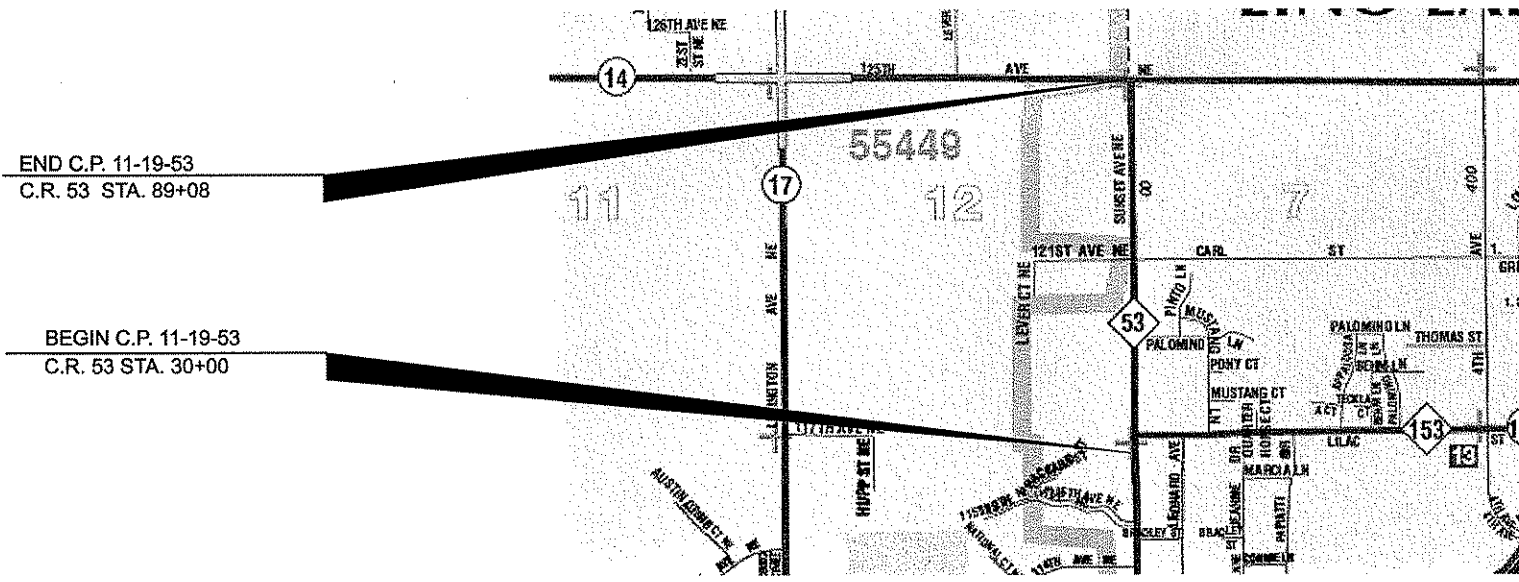
2" BITUMINOUS OVERLAY, AGGREGATE SHOULDERING,
BITUMINOUS WIDENING FOR RIGHT TURN LANES

LOCATED ON C.R. 53 BETWEEN 500' S OF LILAC ST. AND CSAH 14

CO. PROJ. NO. 11-19-53

 C.R. 53

GROSS LENGTH	5908 FEET	1.119 MILES	
BRIDGES-LENGTH	0.00 FEET	0.000 MILES	
EXCEPTIONS-LENGTH	0.00 FEET	0.000 MILES	
NET LENGTH	5908 FEET	1.119 MILES	



GOVERNING SPECIFICATIONS

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE INSTALLED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MNMUTCD), AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3 - 5	TYPICAL SECTIONS
6 - 7	MISCELLANEOUS DETAILS
8	CALCULATIONS FOR RIGHT TURN LANES
9 - 11	CONSTRUCTION PLAN
12	PERMANENT MARKING TABULATION
13 - 15	TEMPORARY SIGNING, PERMANENT STRIPING, & PAVEMENT MESSAGES
16	SIGNING & STRIPING DETAILS

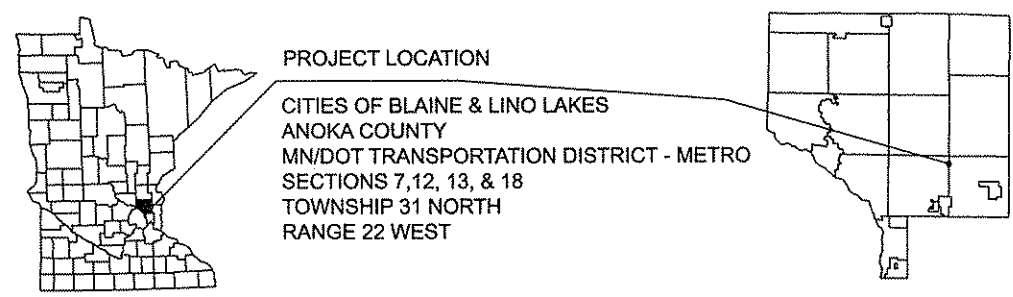
THIS PLAN CONTAINS 16 SHEETS

DESIGN DESIGNATION

ESAL 20	000
R VALUE	000
ADT (2010) =	2100
Proj. ADT (2030) =	3440
Proj. HCADT (2030) =	000
Soil Factor	NA
<u>10</u> TON DESIGN	

Functional Classification	MAJOR COLLECTOR
No. of Traffic Lanes	<u>2</u> No. of Parking Lanes <u>0</u>
Design Speed	<u>55</u> MPH <u>N/A</u>
Based on Stopping Sight Distance	<u>N/A</u>
Height of eye	<u>3.5'</u> Height of object <u>2.0'</u>
Design Speed not achieved at:	
STA. _____ TO STA. _____	MPH _____

Approved: 3/1/2012
ANOKA COUNTY ENGINEER



PROJECT LOCATION
CITIES OF BLAINE & LINO LAKES
ANOKA COUNTY
MN/DOT TRANSPORTATION DISTRICT - METRO
SECTIONS 7, 12, 13, & 18
TOWNSHIP 31 NORTH
RANGE 22 WEST

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: CHARLES CADENHEAD
SIGNATURE:
DATE: 3/1/12 LICENSE NO. 40416

DRAWN BY: SRK DATE: 2/24/2011
DESIGN BY: SRK DATE: 2/24/2011
CHECKED BY: JO DATE: _____

**ANOKA COUNTY
HIGHWAY DEPT.**

STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
CITY PROJECT NO. _____
COUNTY PROJECT NO. 11-19-53

TITLE SHEET

Sheet 1 of 16 Sheets

STATEMENT OF ESTIMATED QUANTITIES				
ITEM NO.	ITEM	NOTE NO.	UNIT	TOTAL EST. QUANT.
2021.501	MOBILIZATION		LUMP SUM	1
2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT	1, 10	SQ YD	77
2104.511	SAWING CONCRETE PAVEMENT (FULL DEPTH)	1, 10	LIN FT	66
2104.523	SALVAGE SIGN TYPE C		EACH	4
2105.602	CONSTRUCT TURN LANE	8	EACH	2
2130.501	WATER		M-GAL	13
2221.501	AGGREGATE SHOULDERING CLASS 5	2	TON	266
2232.501	MILL BITUMINOUS SURFACE (2.0")	1	SQ YD	280
2357.502	BITUMINOUS MATERIAL FOR TACK COAT		GALLON	1099
2360.501	TYPE SP 12.5 WEARING COURSE MIX (4,B)	5, 7, 10	TON	90
2360.501	TYPE SP 12.5 WEARING COURSE MIX (4,E)		TON	2302
2360.502	TYPE SP 12.5 NON-WEAR COURSE MIX (4,B)		TON	189
2531.507	6" CONCRETE DRIVEWAY PAVEMENT		SQ YD	77
2540.602	INSTALL MAIL BOX SUPPORT	6	EACH	27
2563.601	TRAFFIC CONTROL	3, 4, 5, 11	LUMP SUM	1
2564.533	FURNISH SIGN PANEL TYPE C	9	SQ FT	21.50
2564.536	INSTALL SIGN PANEL TYPE C	9	EACH	4
2564.550	DELINEATOR, TYPE X4-13		EACH	2
2581.501	REMOVABLE PREFORM PLASTIC MARKINGS	3	LIN FT	236
2582.502	4" SOLID LINE WHITE - EPOXY	5	LIN FT	12083
2582.502	4" SOLID LINE YELLOW - EPOXY	5	LIN FT	970
2582.502	4" BROKEN LINE YELLOW-EPOXY	5	LIN FT	1050

NOTES	
1	LOCATION TO BE DETERMINED BY ENGINEER.
2	MATERIAL FOR FINISHED 1.5' GRAVEL SHOULDER AND GRAVEL ENTRANCES.
3	CL YELLOW SKIPS TO BE APPLIED AS SOON AS POSSIBLE ON WEAR COURSE (MUST BE APPLIED BEFORE CONTRACTOR LEAVES FOR DAY).
4	DO NOT PASS, PASS WITH CARE, NO CENTER STRIPE, AND BUMP/BUMP AHEAD SIGNS - TO BE INPLACE DURING PAVING OPERATIONS.
5	PERMANENT MARKINGS TO BE IN PLACE WITHIN 72 HOURS OF FINAL MAINLINE PAVING.
6	MAILBOXES TO BE INSTALLED AT THE EXISTING MAILBOX LOCATION. MAILBOX MATERIALS INCIDENTAL TO INSTALLATION.
7	TO BE DONE IN A SEPARATE OPERATION FROM THE MAINLINE PAVING.
8	INCLUDES TIME AND MATERIALS TO CONSTRUCT-COMMON EX., SELECT GRANULAR, AGG. BASE CL-5, TOPSOIL, MOTOR GRADER HRS., DOZER HRS., PNEUMATIC-TIRE ROLLER HRS., EROSION CONTROL BLANKET (TYPE 3), SEEDING, SEED TYPE 350, FERT. TYPE 3, AND SILT FENCE MACHINE SLICED. ESTIMATED CALCULATIONS AND QUANTITIES FOR THESE ITEMS CAN BE FOUND IN PLAN DETAILS.
9	FURNISH AND INSTALL SIGN PANEL TYPE C, MOUNTING POSTS ARE INCIDENTAL TO ITEM.
10	CONTRACTOR RESPONSIBLE TO CONTACT OWNER 48 HOURS BEFORE STARTING OPERATION.
11	ALL TRAFFIC CONTROL METHODS SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

BASIS OF PLANNED QUANTITIES		
2130.501	WATER	70M-GAL/MILE
2221.501	AGGREGATE SHOULDERING CLASS 5	CU YDS * 1.8 = TONS
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	.05 GAL / SQ YD
2360.501	TYPE SP 12.5 WEARING COURSE (SPWEB440E) (4,E)	115 LBS/SQYD/IN THICKNESS
2360.501	TYPE SP 12.5 WEARING COURSE (SPWEB440B) (4,B)	115 LBS/SQYD/IN THICKNESS
2360.502	TYPE SP 12.5 NON-WEAR COURSE (SPNWEB440B) (4,B)	115 LBS/SQYD/IN THICKNESS
2581.501	REMOVABLE PREFORM PLASTIC MARKINGS	2' AT 50' INTERVALS FOR SKIPS

NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\12-01-09\CR_53_(South_of_CSAH14)\Plan\2 Seq.dgn 02/28/2012 7:11:05 AM

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: CHARLES CADENHEAD

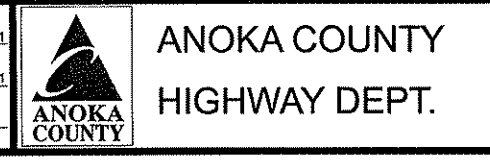
SIGNATURE: *[Signature]*

DATE: 2/2/12 LICENSE NO. 40416

DRAWN BY: SRK DATE: 2/24/2011

DESIGN BY: SRK DATE: 2/24/2011

CHECKED BY: JO DATE: _____



STATE PROJECT NO. _____

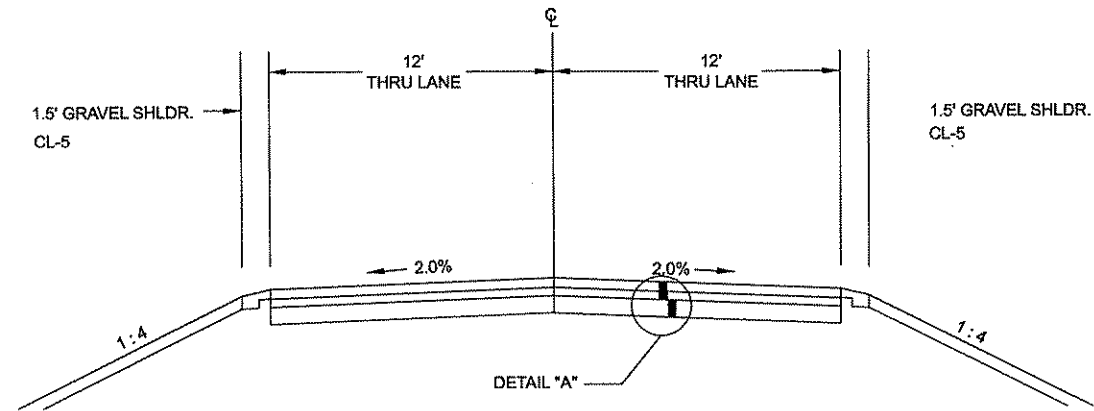
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CITY PROJECT NO. _____

COUNTY PROJECT NO. 11-19-53

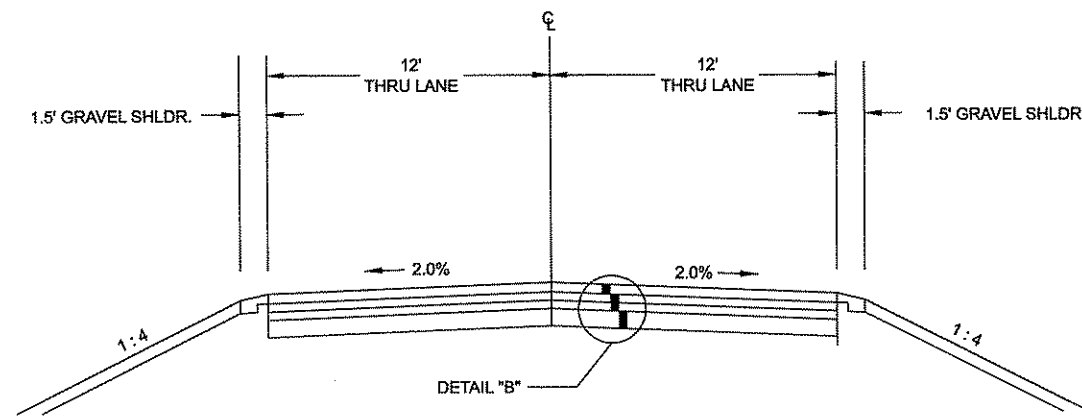
EXISTING TYPICAL SECTION

STA. 30+00 - 31+20, 36+00 - 44+60, 50+00 - 51+50, 57+00 - 84+28

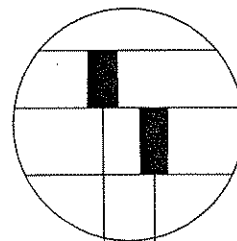


PROPOSED TYPICAL SECTION

STA. 30+00 - 31+20, 36+00 - 44+60, 50+00 - 51+50, 57+00 - 84+28

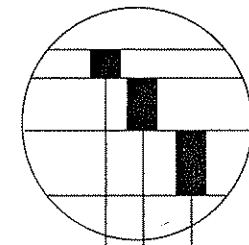


DETAIL "A"



EXISTING BITUMINOUS
6.0" CL - 5A AGG. BASE

DETAIL "B"



2" TYP SP 12.5 WEAR COURSE (SPWEB440E)
EXISTING BITUMINOUS
6.0" CL - 5A AGG. BASE

NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\12-01-00\CR_53_South_of_CSAH14\Plan\Details.dgn 02/28/2012 7:13:33 AM

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: CHARLES CADENHEAD
SIGNATURE: *[Signature]*
DATE: 3/2/12 LICENSE NO. 30416

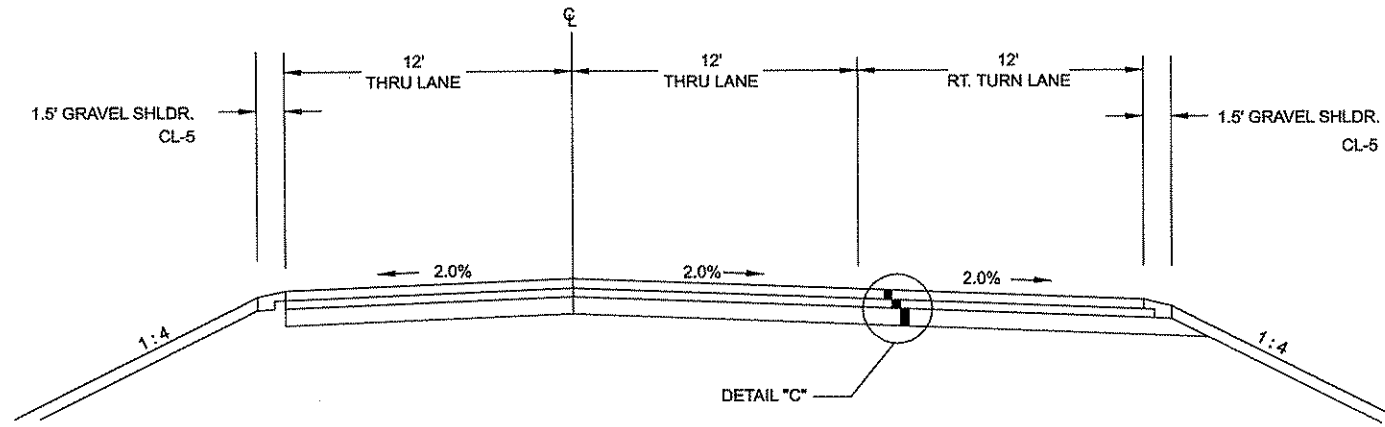
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DESIGN BY: SRK DATE: 2/24/2011
CHECKED BY: JO DATE: _____

ANOKA COUNTY
HIGHWAY DEPT.

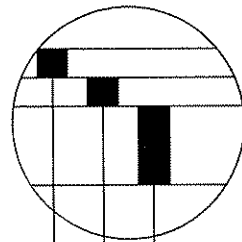
STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
CITY PROJECT NO. _____
COUNTY PROJECT NO. 11-19-53

EXISTING TYPICAL SECTION (RT. TURN LANE - LNB)

STA. 44+60 - 50+00, STA. 51+50 - 57+00



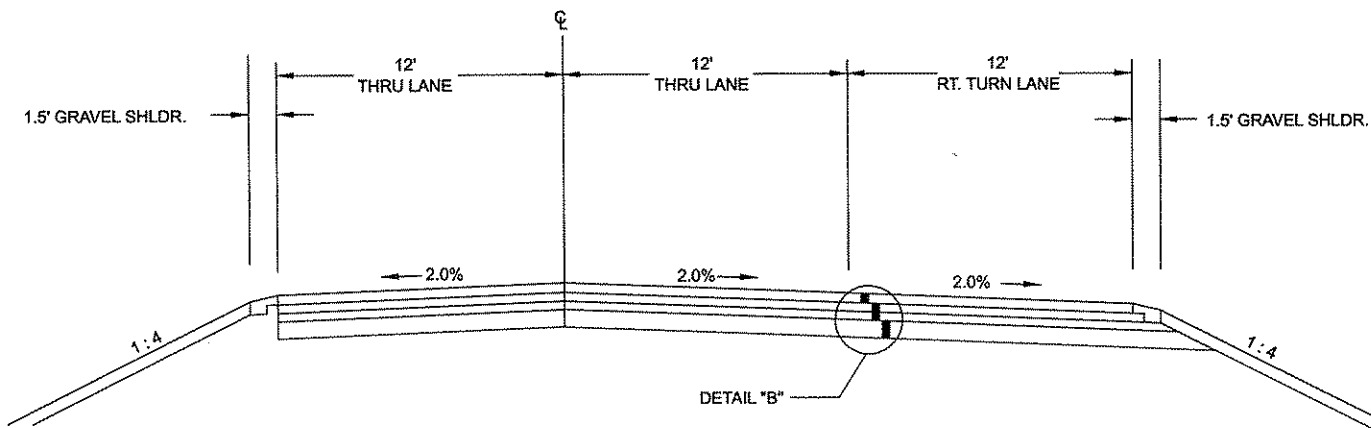
DETAIL "C"



2.0" TYP SP 12.5 WEAR COURSE (SPWEB440E)
 2.0" TYP SP 12.5 NON-WEAR COURSE (SPNWB440B)
 6.0" CL - 5A AGG. BASE

PROPOSED TYPICAL SECTION (RT. TURN LANE - LNB)

STA. 44+60 - 50+00, STA. 51+50 - 57+00



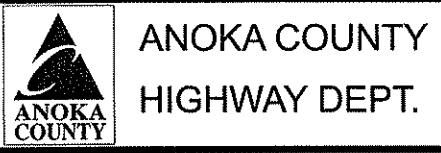
DETAIL "B"

NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\12-01-00\CR_53 (South of CSAH14)\PlanDetails.dgn 02/28/2012 7:21:48 AM

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: CHARLES CADENHEAD
 SIGNATURE: *[Signature]*
 DATE: 2/2/12 LICENSE NO. 40416

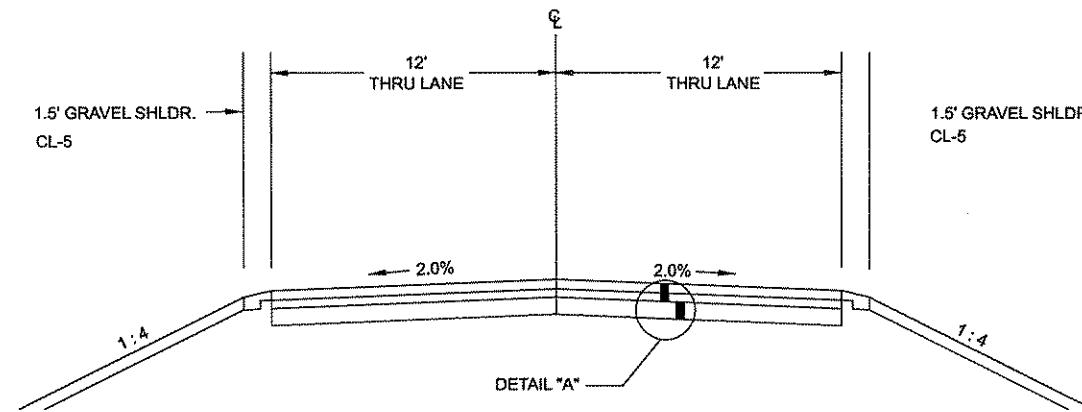
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 DESIGN BY: SRK DATE: 2/24/2011
 CHECKED BY: JO DATE: _____



STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 CITY PROJECT NO. _____
 COUNTY PROJECT NO. 11-19-53

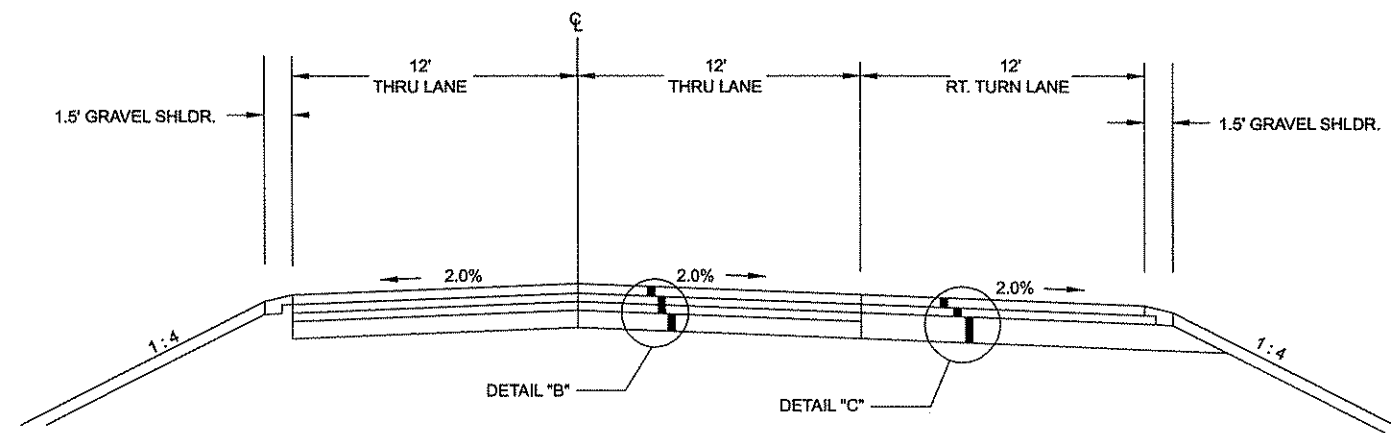
EXISTING TYPICAL SECTION

STA. 31+20 - 39+80, 84+28 - 89+08



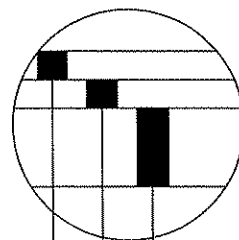
**PROPOSED TYPICAL SECTION
(RT. TURN LANE @ CSAH 14 & LILAC ST.)**

STA. 31+20 - 39+80, 84+28 - 89+08



DETAIL "C"

- 2.0" TYP SP 12.5 WEAR COURSE (SPWEB440E)
- 2.0" TYP SP 12.5 NON-WEAR COURSE (SPNWB440B)
- 6.0" CL - 5A AGG. BASE



NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\12-01-00\CR_53_(South_of_CSAH14)\Plan\Details.dgn 02/28/2012 7:22:42 AM

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: CHARLES CADENHEAD

SIGNATURE: *[Signature]*

DATE: 3/2/12 LICENSE NO. 40416

DRAWN BY SRK DATE 2/24/2011

DESIGN BY SRK DATE 2/24/2011

CHECKED BY JO DATE



**ANOKA COUNTY
HIGHWAY DEPT.**

STATE PROJECT NO. _____

STATE AID PROJECT NO. _____

CITY PROJECT NO. _____

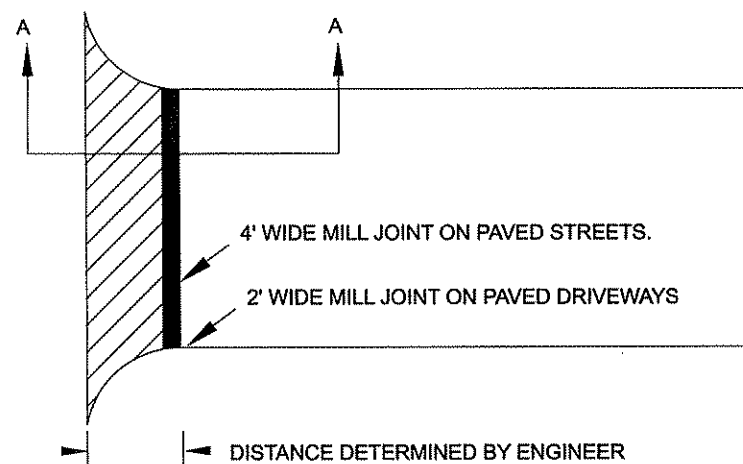
COUNTY PROJECT NO. 11-19-53

TYPICAL SECTION

Sheet 5 of 16 Sheets

PAVED DRIVEWAYS / PAVED STREETS

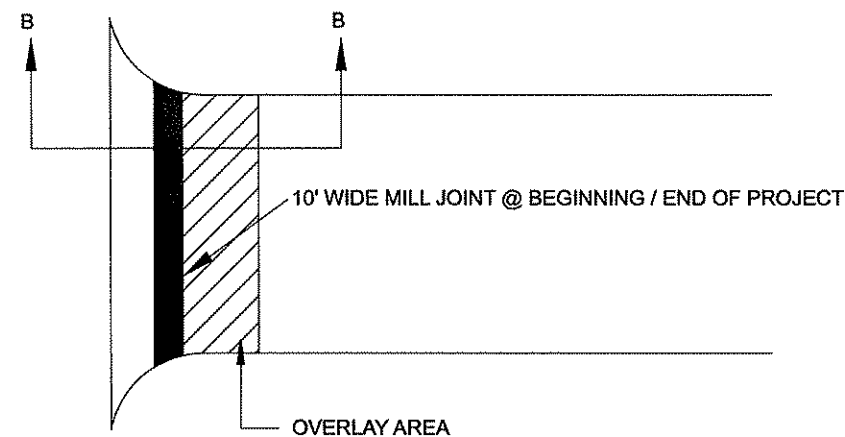
JOINT DETAILS



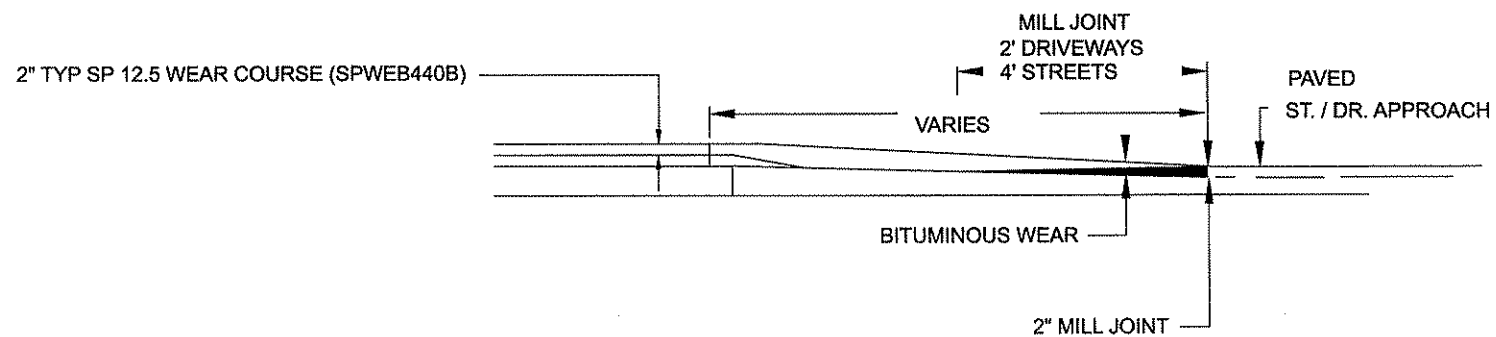
DRIVEWAYS BUMPED OUT TO BE PAVED WITH MAINLINE, PAID AS MAINLINE.
DRIVEWAYS PAVED IN DIFFERENT OPERATION FROM MAIN LINE PAVING PAID AS ST. APPROACH.
STREETS PAID AS ST. APPROACH.

MAINLINE

JOINT DETAILS

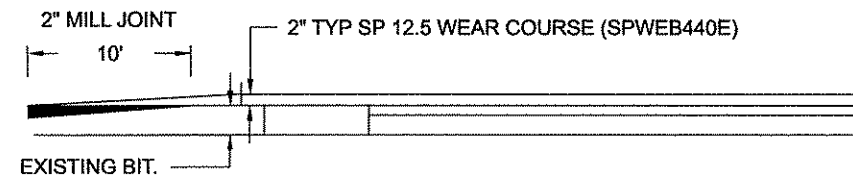


JOINT DETAILS A - A



PAID AS STREET APPROACH

JOINT DETAILS B - B



NO	DATE	BY	CHKD	APPR	REVISION
NAME: P:\12-01-00\CR_53_South_of_CSAH14\PlanDetails.dgn					
DATE: 02/28/2012 7:24:58 AM					

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: CHARLES CADENHEAD
SIGNATURE: *[Signature]*
DATE: 3/2/12 LICENSE NO. 40416

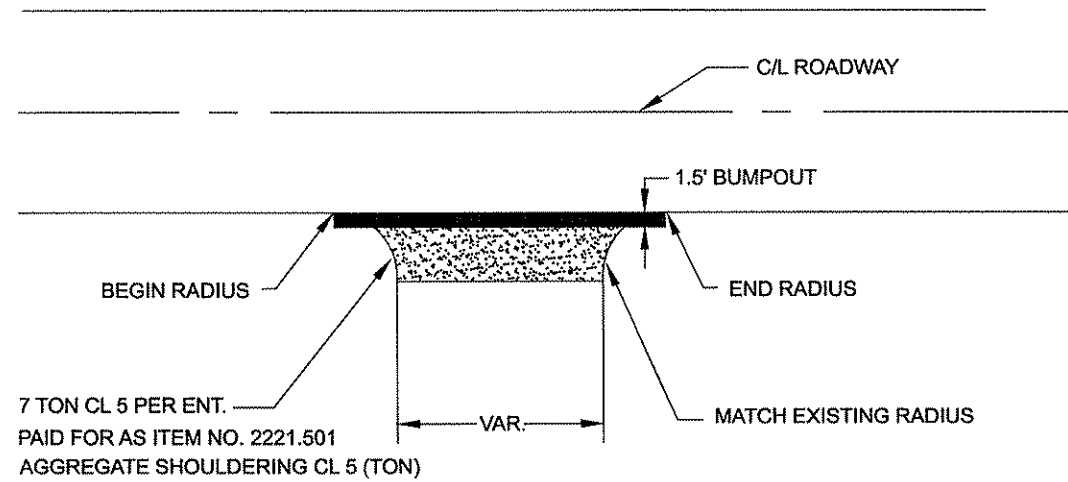
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DESIGN BY SRK DATE 2/24/2011
CHECKED BY JO DATE



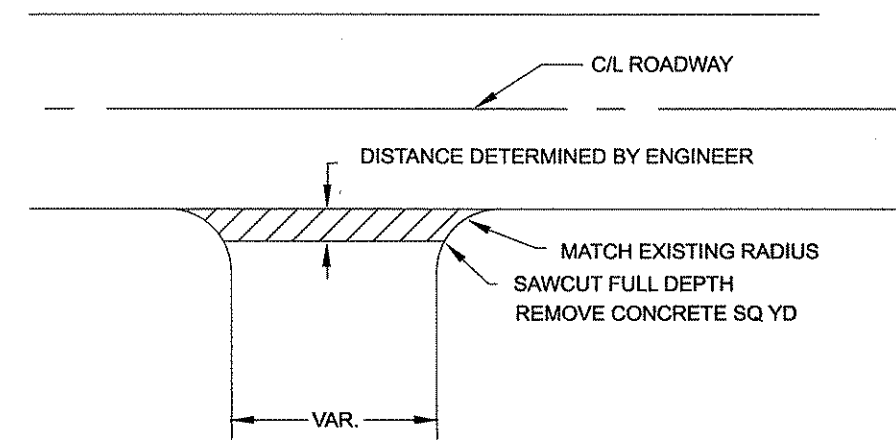
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STATE AID PROJECT NO. _____
CITY PROJECT NO. _____
COUNTY PROJECT NO. 11-19-53

MISCELLANEOUS DETAILS
Sheet 6 of 16 Sheets

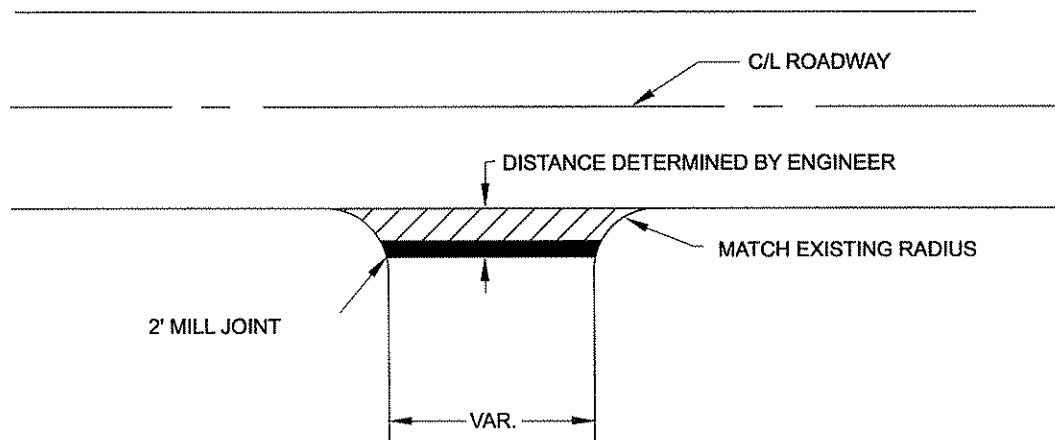
GRAVEL DRIVEWAYS AND FEILD ENTRANCES



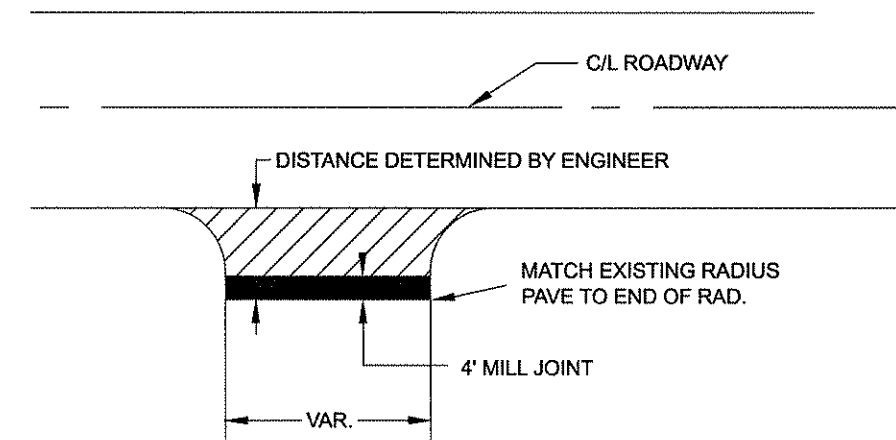
CONCRETE DRIVEWAYS



PAVED DRIVEWAYS



PAVED STREET APPROACHES



DRIVEWAYS BUMPED OUT AND PAVED WITH MAINLINE PAID AS MAINLINE.
 DRIVEWAYS PAVED IN DIFFERENT OPERATION FROM MAIN LINE PAVING PAID AS ST./DR. APPROACH.

NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\12-01-00\CR_53 (South of CSAH14)\Plan\Details.dgn 02/28/2012 7:38:50 AM

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: CHARLES CADENHEAD
 SIGNATURE: *[Signature]*
 DATE: 2/28/12 LICENSE NO. 40416

DRAWN BY: SRK DATE: 2/24/2011
 DESIGN BY: SRK DATE: 2/24/2011
 CHECKED BY: JO DATE: _____



ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 CITY PROJECT NO. _____
 COUNTY PROJECT NO. 11-19-53

MISCELLANEOUS DETAILS
 Sheet 7 of 16 Sheets

ESTIMATED QUANTITIES FOR RIGHT TURN LANES											
CONSTRUCT TURN LANE (LILAC ST.)											
	STATION	STATION	LENGTH	WIDTH	DEPTH	CU YDS	SQ YDS	TONS	ACRE	LBS	HOURS
COMMON EX	31+80	36+00	420.0	6.3	0.5	48.8					
SELECT GRANULAR (CV)	31+80	36+00	420.0	12	1.0	192.3					
CLASS 5	31+80	36+00	420.0	12	0.5	93.3					
TOPSOIL	31+80	36+00	420.0					19.6			
MOTOR GRADER TIME	31+80	36+00	420.0								2.0
PNEUMATIC TIRE ROLLER TIME	31+80	36+00	420.0								2.0
DOZER TIME	31+80	36+00	420.0								2.0
SEEDING (ACRE)	31+80	36+00	420.0						0.09		
SEED MIXTURE 350 (LBS)	31+80	36+00	420.0							7.6	
EROSION CONTROL BLANKET	31+80	36+00	420.0				426.7				
FERTILIZER TYPE 3 (LBS)	31+80	36+00	420.0							31.5	
SILT FENCE	31+80	36+00	465.0								
CONSTRUCT TURN LANE (CSAH 14)											
	STATION	STATION	LENGTH	WIDTH	DEPTH	CU YDS					HOURS
COMMON EX	84+28	89+08	480.0	16.6	0.5	147.5					
SELECT GRANULAR (CV)	84+28	89+08	480.0	12	3.5	753.1					
CLASS 5	84+28	89+08	480.0	12	0.5	106.7					
TOPSOIL	84+28	89+08	480.0					19.6			
MOTOR GRADER TIME	84+28	89+08	480.0								2.0
PNEUMATIC TIRE ROLLER TIME	84+28	89+08	480.0								2.0
DOZER TIME	84+28	89+08	480.0								2.0
SEEDING (ACRE)	84+28	89+08	480.0						0.09		
SEED MIXTURE 350 (LBS)	84+28	89+08	480.0							7.6	
EROSION CONTROL BLANKET	84+28	89+08	480.0				426.7				
FERTILIZER TYPE 3 (LBS)	84+28	89+08	480.0							31.5	
SILT FENCE	84+28	89+08	525.0								

AVG. DEPTH ESTIMATES IN RT TURN LANES & BYPASS AREA USING EDGE MAT, SHOULDER PI, AND DITCH BOTTOM ELEVATIONS

CSAH 14 RIGHT TURN LANE				LILAC ST RIGHT TURN LANE			
STA	EM	SH PI	BOTTOM	STA	EM	SH PI	BOTTOM
84+50	899.56	899.28	895.29	31+80	905.34	905.19	903.56
85+50	899.44	899.19	895.66	32+00	905.18	905.03	904.13
86+50	899.32	899.10	895.27	33+00	904.93	904.93	903.73
87+50	899.37	899.05	895.34	34+00	904.89	904.76	902.88
88+50	899.41	899.01	895.40	35+00	904.22	903.92	902.61
AVG.	899.42	899.13	895.39	AVG.	904.91	904.77	903.38

AVG DEPTH = 4.03'
minus 0.5' = 3.53'

AVG DEPTH = 1.53'
minus 0.5' = 1.03'

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\12-01-00\CR_53_South_of_CSAH14\PlantDetails.dgn
02/28/2012 7:45:41 AM

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: CHARLES CADENHEAD
SIGNATURE: *[Signature]*
DATE: 2/2/12 LICENSE NO. 40416

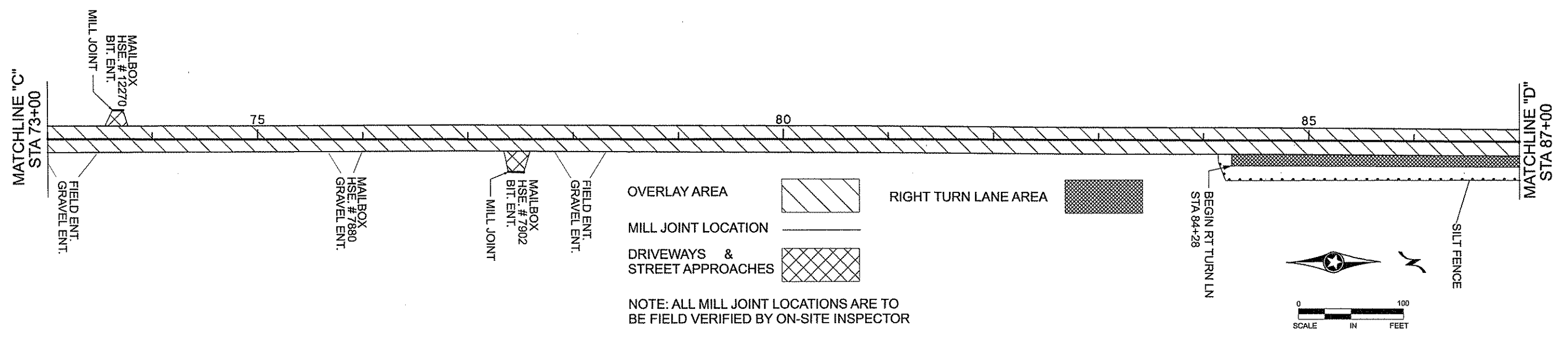
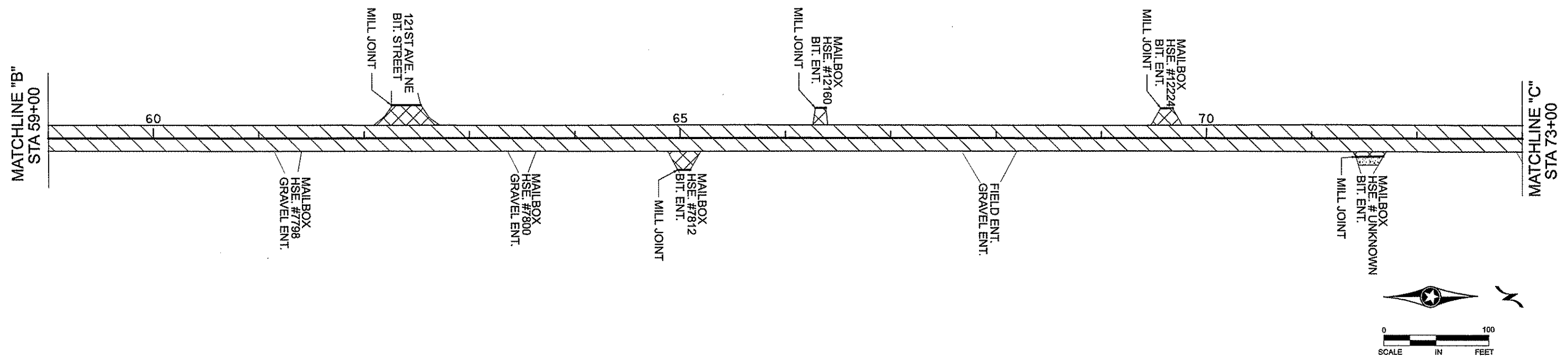
DRAWN BY: SRK DATE: 2/24/2011
DESIGN BY: SRK DATE: 2/24/2011
CHECKED BY: JO DATE:



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
CITY PROJECT NO. _____
COUNTY PROJECT NO. 11-19-53

CALCULATIONS FOR
RIGHT TURN LANES
Sheet 8 of 16 Sheets



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\12-01-00\CR_53_(South_of_CSAH14)\Plan\3 plan sheet 1.dgn 02/28/2012 8:11:29 AM

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: CHARLES CADENHEAD

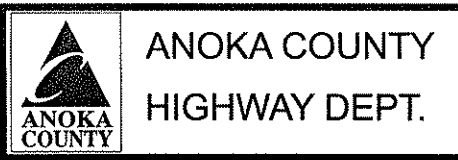
SIGNATURE: *Charles Cadenhead*

DATE: 2/2/12 LICENSE NO. 40416

DRAWN BY: SRK DATE: 2/24/2011

DESIGN BY: SRK DATE: 2/24/2011

CHECKED BY: JO DATE: _____



STATE PROJECT NO. _____

STATE AID PROJECT NO. _____

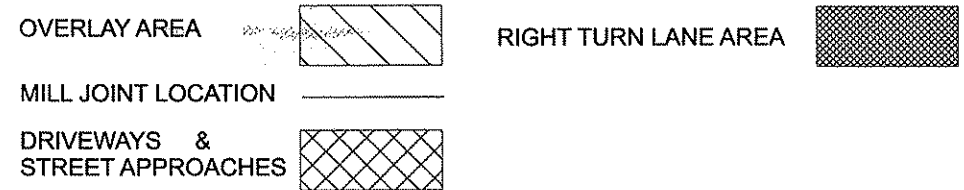
CITY PROJECT NO. _____

COUNTY PROJECT NO. 11-19-53

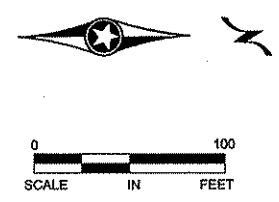
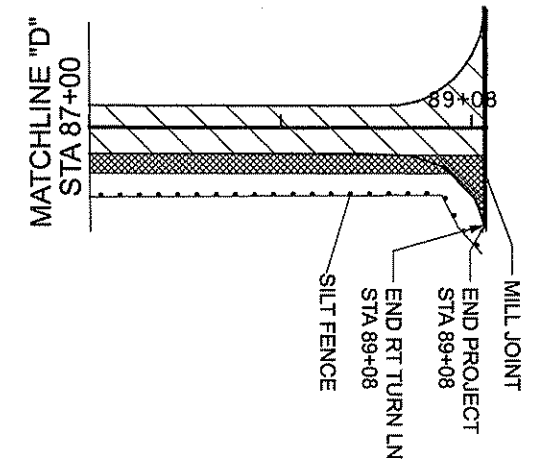
CONSTRUCTION PLAN

STA 59+00 TO 87+00

Sheet 10 of 16 Sheets



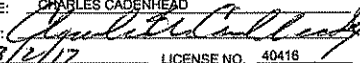
NOTE: ALL MILL JOINT LOCATIONS ARE TO BE FIELD VERIFIED BY ON-SITE INSPECTOR



NO	DATE	BY	CHKD	APPR	REVISION

NAME: P:\12-01-00\CR_53 (South of CSAH14)\Plan\3 plan sheet 1.dgn
 02/28/2012 8:11:50 AM

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.

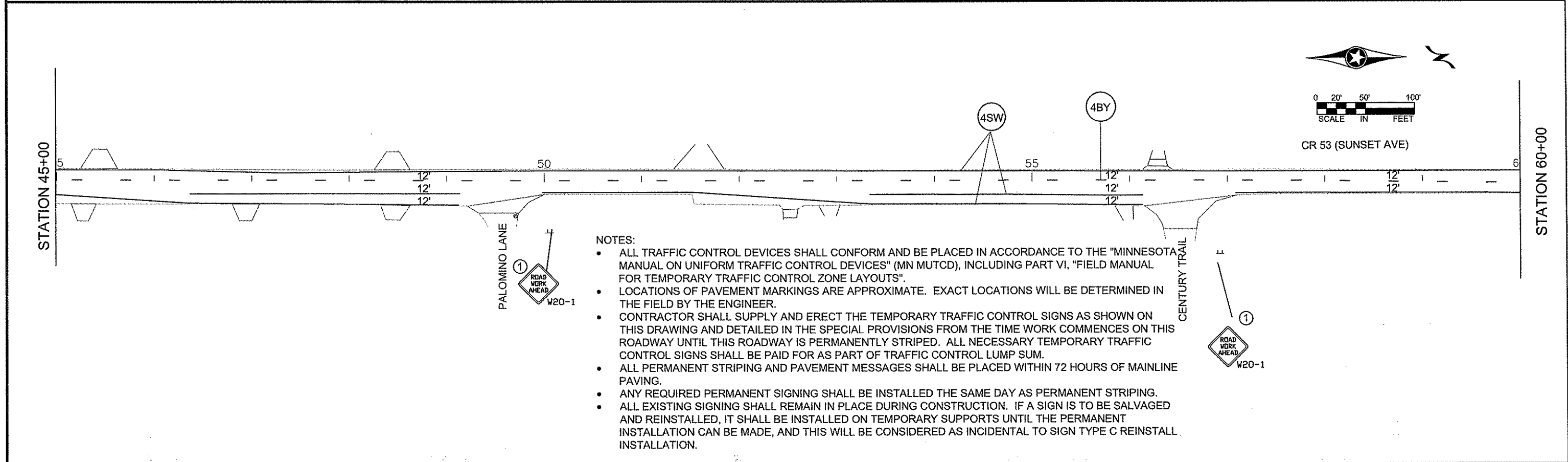
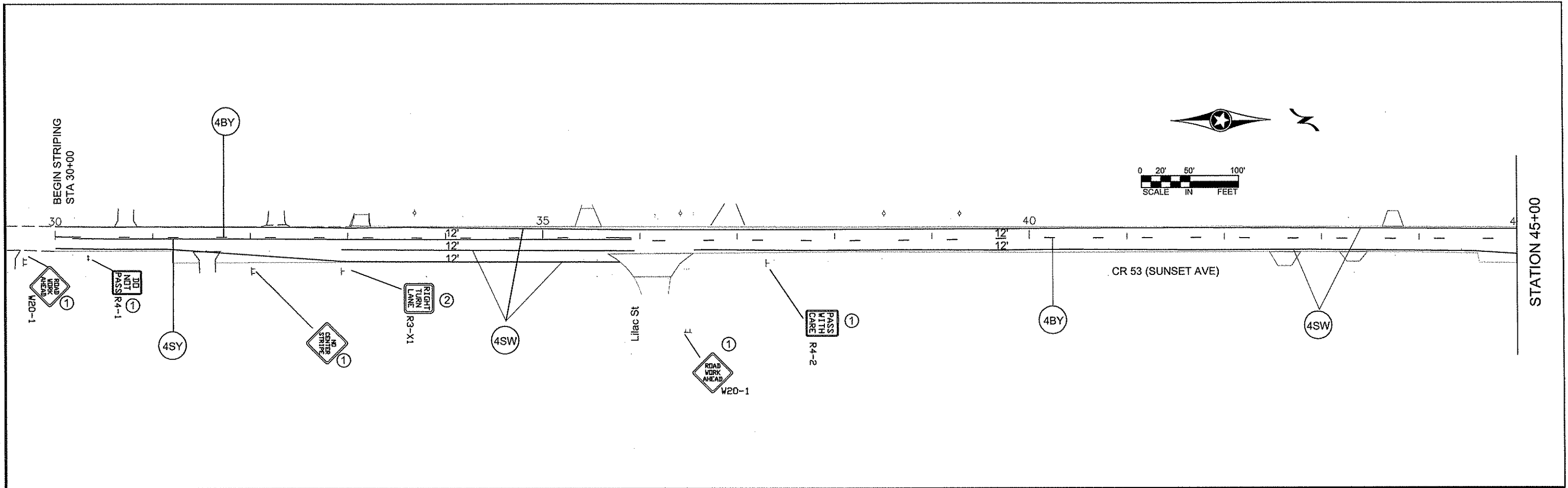
PRINT NAME: CHARLES CADENHEAD
 SIGNATURE: 
 DATE: 3/2/12 LICENSE NO. 40418

DRAWN BY SRK DATE 2/24/2011
 DESIGN BY SRK DATE 2/24/2011
 CHECKED BY JO DATE



STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 CITY PROJECT NO. _____
 COUNTY PROJECT NO. 11-19-53

CONSTRUCTION PLAN
 STA 87+00 TO 89+08
 Sheet 11 of 16 Sheets



NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING AND DETAILED IN THE SPECIAL PROVISIONS FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. ALL NECESSARY TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.
- ALL PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
- ANY REQUIRED PERMANENT SIGNING SHALL BE INSTALLED THE SAME DAY AS PERMANENT STRIPING.
- ALL EXISTING SIGNING SHALL REMAIN IN PLACE DURING CONSTRUCTION. IF A SIGN IS TO BE SALVAGED AND REINSTALLED, IT SHALL BE INSTALLED ON TEMPORARY SUPPORTS UNTIL THE PERMANENT INSTALLATION CAN BE MADE, AND THIS WILL BE CONSIDERED AS INCIDENTAL TO SIGN TYPE C REINSTALL INSTALLATION.

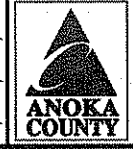
NO	DATE	BY	CKD	APPR	REVISION

NAME: T:\Traffic\dwg\CR 53 (Sunset Ave)\from CR 49 to CSAH 14.dwg

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: CHARLES CADENHEAD
 SIGNATURE: *[Signature]*
 DATE: 3/2/12 LICENSE NO. 40416

DRAWN BY: MTH DATE 1/31/11
 DESIGN BY: MTH DATE 1/31/11
 CHECKED BY: JR DATE 2/14/12



**ANOKA COUNTY
 HIGHWAY DEPT.**

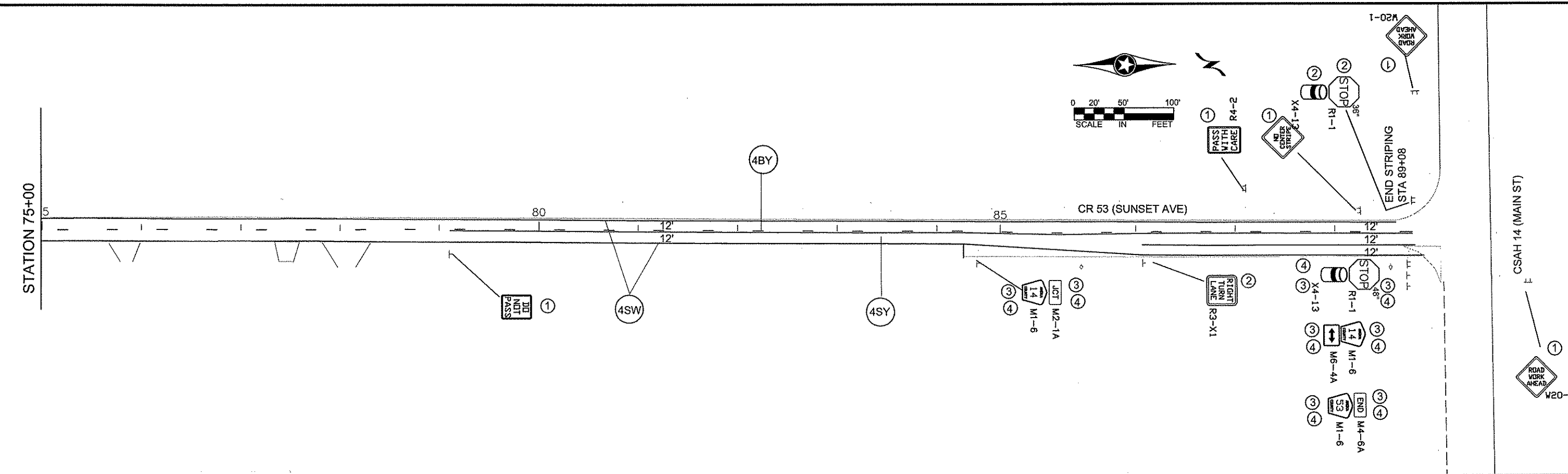
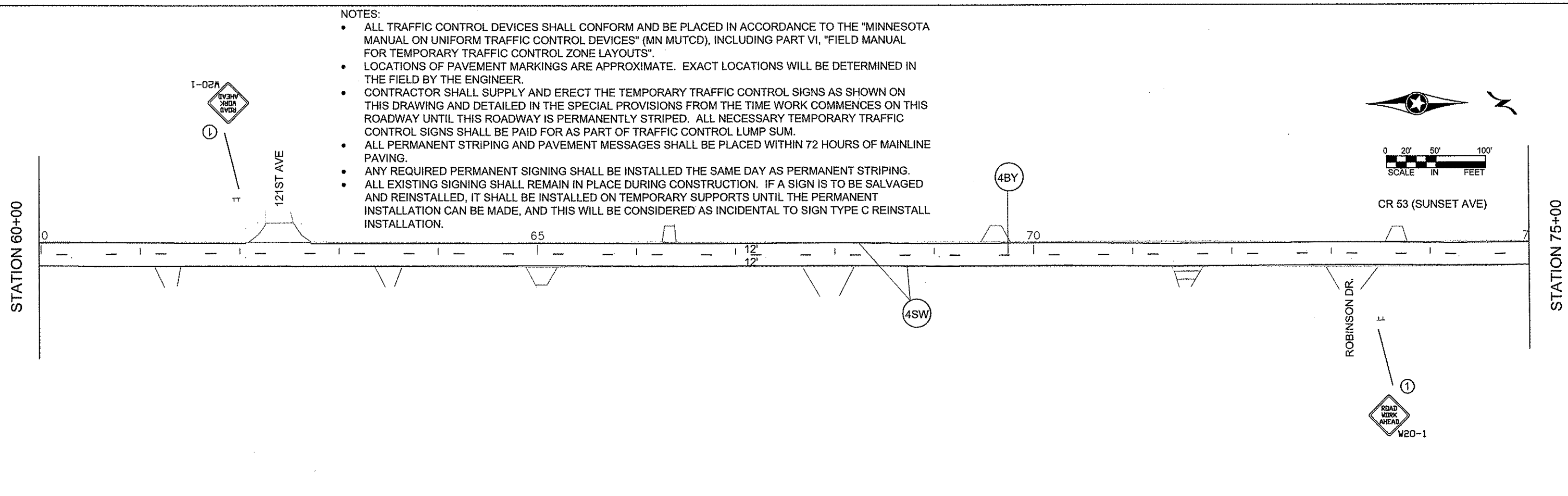
STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 CITY PROJECT NO. _____
 COUNTY PROJECT NO. 11-19-53

CR 53 SUNSET RD
 TEMPORARY SIGNING
 PERMANENT SIGNING & STRIPING
 AND PAVEMENT MESSAGES

Sheet 13 of 16 Sheets

NOTES:

- ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), INCLUDING PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
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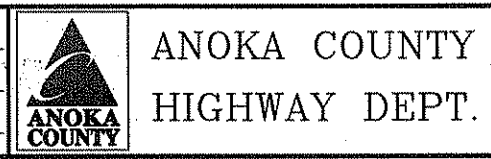
NO	DATE	BY	CKD	APPR	REVISION

NAME: T:\Traffic\dwg\CR 53 (Sunset Ave)\from CR 49 to CSAH 14.dwg

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: CHARLES CADENHEAD
 SIGNATURE: *[Signature]*
 DATE: 3/1/12 LICENSE NO. 40416

DRAWN BY: MTH DATE 1/31/11
 DESIGN BY: MTH DATE 1/31/11
 CHECKED BY: JR DATE 2/14/12














STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 CITY PROJECT NO. _____
 COUNTY PROJECT NO. 11-19-53

CR 53 SUNSET RD
 TEMPORARY SIGNING
 PERMANENT SIGNING & STRIPING
 AND PAVEMENT MESSAGES

Sheet 14 of 16 Sheets

SALVAGE & RE-INSTALL PERMANENT SIGNS						
STATION		SALVAGE SIGN	INSTALL	INSTALL SIGN	SIGN NUMBER	NOTES
		TYPE C	DELINEATOR	TYPE C		
		EACH	EACH	EACH		
84+40	Rt	1		1	M2-1A	
84+40	Rt			M1-6		
88+50	Lt		1		delineator	
88+50	Rt	1		1	R1-1	
88+50	Rt			delineator		
88+50	Rt	1		1	M1-6	
88+50	Rt			M6-4A		
88+50	Rt	1		1	M4-6A	
88+50	Rt			M1-6		
TOTAL		4	1	4		

PERMANENT SIGNS								
M.U.T.C.D.	CODE	SIZE	PANEL AREA	INSERT	QUANTITY	No. POST	MOUNTING HEIGHT (TO CENTER OF SIGN)	TOTAL AREA
			FT. ²				FT.	FT. ²
R1-1		36" x 36"	9.00		1	2	7.00	9.00
x4-13		8" x 12"			1			
				X4-13				
R3-X1		30" x 30"	6.25		2	1	7.00	12.50
				R3-X1				
TOTAL PANEL AREA								21.50

TEMPORARY TRAFFIC CONTROL SIGNS								
M.U.T.C.D.	CODE	SIZE	PANEL AREA	INSERT	QUANTITY	No. POST	MOUNTING HEIGHT (TO CENTER OF SIGN)	TOTAL AREA
			FT. ²				FT.	FT. ²
W8-12		48" x 48"	16.00		2	2	7.0'	
R4-1		24" x 30"	5.00		1	1	7.0'	
				R4-1				
R4-2		24" x 30"	5.00		2	1	7.0'	
				R4-2				
W8-1A		48" x 48"	16.00		AS NEEDED			
				W8-1A				
W8-1A		48" x 48"	16.00		AS NEEDED			
				W8-1A				
W8-8		48" x 48"	16.00		AS NEEDED			
				W8-8				
W8-11		48" x 48"	16.00		AS NEEDED			
				W8-11				
W20-1		48" x 48"	16.00		AS NEEDED (ESTIMATED 8)			
				W20-1				

SEE SPECIAL PROVISIONS

- ① TEMPORARY TRAFFIC CONTROL SIGN
- ② F & I PERMANENT SIGN
- ③ SALVAGE PERMANENT SIGN
- ④ RE-INSTALL PERMANENT SIGN

NOTES:

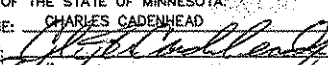
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NO	DATE	BY	CKD	APPR	REVISION

NAME: T:\Traffic\dwg\CR 53 (Sunset Ave)\from CR 49 to CSAH 14.dwg

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: CHARLES CADENHEAD


SIGNATURE: 

DATE: 5/2/12 LICENSE NO. 46516

DRAWN BY: MTH DATE 1/31/11

DESIGN BY: MTH DATE 1/31/11

CHECKED BY: JR DATE 3/01/11

 ANOKA COUNTY HIGHWAY DEPT.

STATE PROJECT NO. _____

STATE AID PROJECT NO. _____

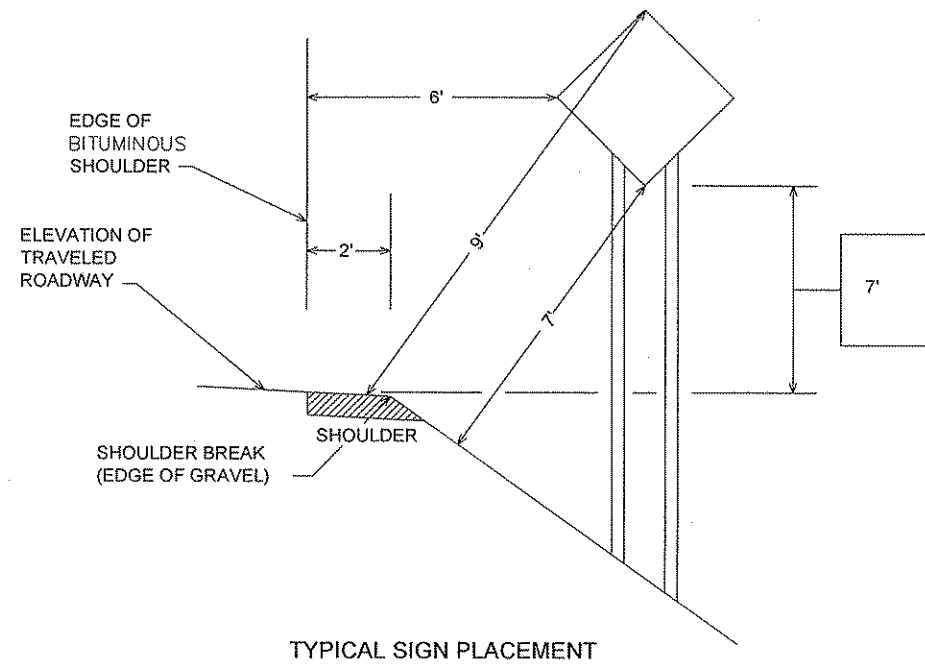
CITY PROJECT NO. _____

COUNTY PROJECT NO. 11-19-53

CR 53 SUNSET RD
TEMPORARY SIGNING
PERMANENT SIGNING & STRIPING
AND PAVEMENT MESSAGES

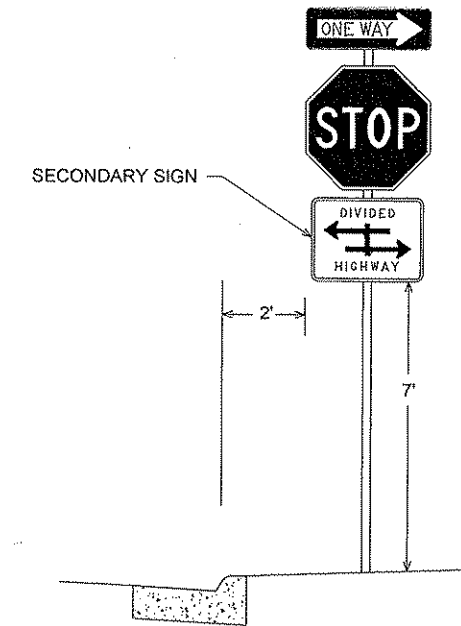
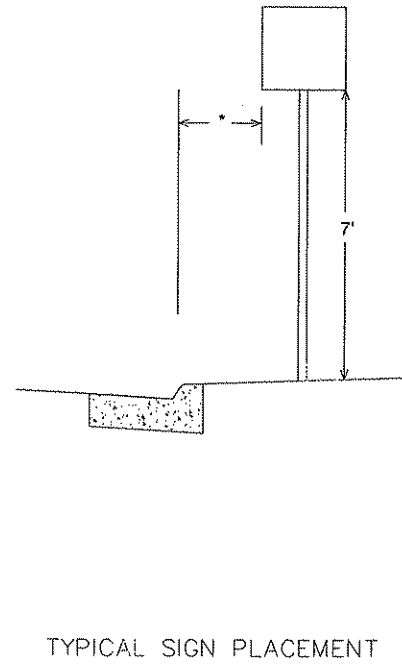
Sheet 15 of 16 Sheets

RURAL



URBAN

2' - NARROW BOULEVARD (< 8' WIDE)
6' - WIDE BOULEVARD



- NOTE:
- ALL DIMENSIONS ARE MINIMUMS
 - MAINTAIN 2' CLEAR FROM SIGNS TO BITUMINOUS TRAIL

NO	DATE	BY	CKD	APPR	REVISION

NAME: T:\Traffic\Dwg\CR 53 (Sunset Ave)\Sign&Stripe_Details.dwg

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: CHARLES CADENHEAD

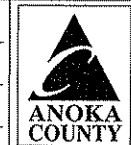
SIGNATURE: *Charles Cadenhead*

DATE: 3/2/12 LICENSE NO. 40416

DRAWN BY MTH DATE 1-21-11

DESIGN BY MTH DATE 1-21-11

CHECKED BY JR DATE 2-14-12



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____

STATE PROJECT NO. _____

STATE PROJECT NO. _____

COUNTY PROJECT NO. 11-19-53

SIGNING & STRIPING DETAILS

Sheet 16 of 16 Sheets