

PLAN SYMBOLS

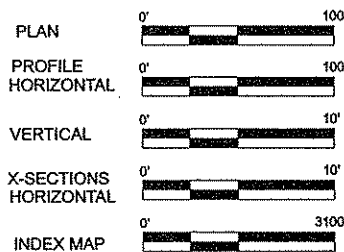
- COUNTY LINE _____
- TOWNSHIP OR RANGE LINE _____
- SECTION LINE _____
- QUARTER LINE _____
- SIXTEENTH LINE _____
- RIGHT OF WAY LINE _____
- SLOPE EASEMENT _____
- EXISTING RIGHT OF WAY _____
- PROPERTY LINE _____
- CORPORATE OR CITY LIMITS _____
- RETAINING WALL _____
- RAILROAD _____
- RAILROAD 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 _____

- LOWLAND _____
- TIMBER _____
- ORCHARD _____
- BRUSH _____
- NURSERY _____
- CATTLE GUARD _____
- OVERPASS (Highway Over) _____
- UNDERPASS (Highway Under) _____
- BRIDGE _____
- BUILDING (One Story Frame) _____
- F-FRAME C-CONCRETE _____
- S-STONE T-TILE _____
- B-BRICK ST-STUCCO _____
- RAILROAD CROSSING BELL _____
- RAILROAD CROSSING GATE _____
- MANHOLE _____
- CATCH BASIN _____
- FIRE HYDRANT _____
- CAST IRON MONUMENT _____
- IRON PIN _____
- GRAVEL PIT _____
- SAND PIT _____
- BORROW PIT _____
- ROCK QUARRY _____

UTILITY SYMBOLS

- POWER POLE LINE _____
- TELEPHONE OR TELEGRAPH _____
- POLE LINE _____
- JOINT TELEPHONE & POWER _____
- ON POWER POLES _____
- ON TELEPHONE POLES _____
- ANCHOR _____
- STEEL TOWER _____
- STREET LIGHT _____
- PEDESTAL (Cable Terminal) _____
- GAS MAIN _____
- WATERMAIN _____
- TELEPHONE CABLE IN CONDUIT _____
- ELECTRIC CABLE IN CONDUIT _____
- TELEPHONE MANHOLE _____
- ELECTRIC MANHOLE _____
- BURIED TELEPHONE CABLE _____
- BURIED ELECTRIC CABLE _____
- SEWER (Sanitary or Storm) _____
- SEWER MANHOLE _____

SCALES



MINNESOTA DEPARTMENT OF TRANSPORTATION ANOKA COUNTY

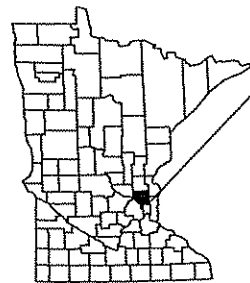
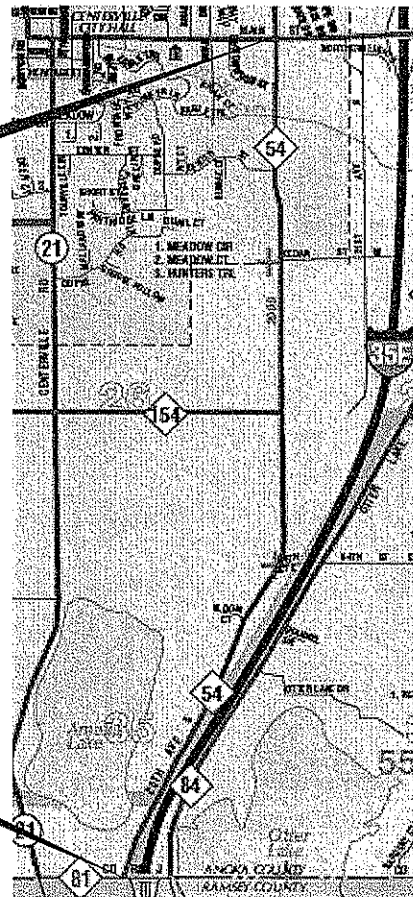
CONSTRUCTION PLAN FOR 2" BITUMINOUS OVERLAY, AGGREGATE SHOULDERING
 LOCATED ON CSAH 54 BETWEEN CO. RD. J (S. CTY. LINE) AND MAIN ST. (CSAH 14)

CO. PROJ. NO. 11-20-54
CSAH 54

GROSS LENGTH	14290 FEET	2.706 MILES
BRIDGES-LENGTH	0.00 FEET	0.000 MILES
EXCEPTIONS-LENGTH	0.00 FEET	0.000 MILES
NET LENGTH	14290 FEET	2.706 MILES

END C.P. 11-20-54
 CSAH 54 STA. 152+80

BEGIN C.P. 11-20-54
 CSAH 54 STA. 9+90



PROJECT LOCATION
 CITIES OF CENTERVILLE & LINO LAKES
 ANOKA COUNTY
 MN/DOT TRANSPORTATION DISTRICT - METRO
 SECTIONS 23, 26, & 35
 TOWNSHIP 31 NORTH
 RANGE 22 WEST

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
3-4	TYPICAL SECTIONS
5-6	MISCELLANEOUS DETAILS
7-11	CONSTRUCTION PLAN
12-16	SIGNING & STRIPING PLAN, TAB, & DETAILS

THIS PLAN CONTAINS 16 SHEETS

DESIGN DESIGNATION

ESAL 20	000
R VALUE	000
ADT (2010) =	3686
Proj. ADT (2030) =	5897
Proj. HCADT (2030) =	000
Soil Factor	NA
10 TON DESIGN	
Functional Classification	MAJOR COLLECTOR
No. of Traffic Lanes	2 No. of Parking Lanes 0
Design Speed	55 MPH N/A
Based on Stopping Sight Distance	N/A
Height of eye	3.5' Height of object 2.0'
Design Speed not achieved at:	
STA. _____ TO STA. _____	MPH _____

Approved: ANOKA COUNTY ENGINEER 4/7/2011

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 CADENEHEAD
 SIGNATURE:
 DATE: 4/7/11 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. 11-20-54

TITLE SHEET

Sheet 1 of 16 Sheets

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\11-01-00\CSAH_54 (CSAH14-SouthCountyLine)\Plan\1 Title.dgn 03/18/2011 8:25:03 AM

CSAH 54 SOUTH		STATEMENT OF ESTIMATED QUANTITIES		
ITEM NO.	ITEM	NOTE NO.	UNIT	TOTAL EST. QUANT.
2021.501	MOBILIZATION		LUMP SUM	1
2104.503	REMOVE CONCRETE DRIVEWAY PAVEMENT	1	SQ FT	772
2104.511	SAWING CONCRETE PAVEMENT (FULL DEPTH)	1	LIN FT	68
2221.501	AGGREGATE SHOULDERING CLASS 5	2	TON	608
2232.501	MILL BITUMINOUS SURFACE (2.0")	1	SQ YD	377
2357.502	BITUMINOUS MATERIAL FOR TACK COAT		GALLON	2126
2360.501	TYPE SP 12.5 WEARING COURSE MIX (4,B)	7	TON	206
2360.501	TYPE SP 12.5 WEARING COURSE MIX (4,E)		TON	5928
2531.507	6" CONCRETE DRIVEWAY PAVEMENT		SQ YD	86
2540.602	INSTALL MAIL BOX SUPPORT	6	EACH	33
2563.601	TRAFFIC CONTROL	3,4,5	LUMP SUM	1
2581.501	REMOVABLE PREFORM PLASTIC MARKINGS	3	LIN FT	572
2582.502	4" SOLID LINE WHITE - EPOXY	5	LIN FT	28807
2582.502	4" SOLID LINE YELLOW - EPOXY	5	LIN FT	3937
2582.502	4" BROKEN LINE YELLOW-EPOXY	5	LIN FT	1800
2582.502	4" DOUBLE SOLID LINE YELLOW - EPOXY	5	LIN FT	4590

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 (MUST BE APPLIED BEFORE CONTRACTOR LEAVES FOR THE 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 FOR PAVING STREET APPROACHES AND DRIVEWAYS, TO BE DONE IN A SEPARATE OPERATION FROM MAINLINE PAVING.

BASIS OF PLANNED QUANTITIES

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
2581.501	REMOVABLE PREFORM PLASTIC MARKINGS	2' AT 50' INTERVALS FOR SKIPS

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:111-01-00\CSAH_54_(CSAH14-SouthCountyLine)\Plant2 Seq.dgn 04/05/2011 3:48:12 PM

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

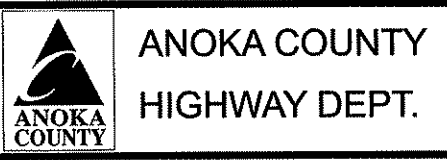
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DATE: 4/8/11 LICENSE NO. 40416

DRAWN BY: SRK DATE: 2/24/2011

DESIGN BY: SRK DATE: 2/24/2011

CHECKED BY: _____ DATE: _____



STATE PROJECT NO. _____

STATE AID PROJECT NO. _____

CITY PROJECT NO. _____

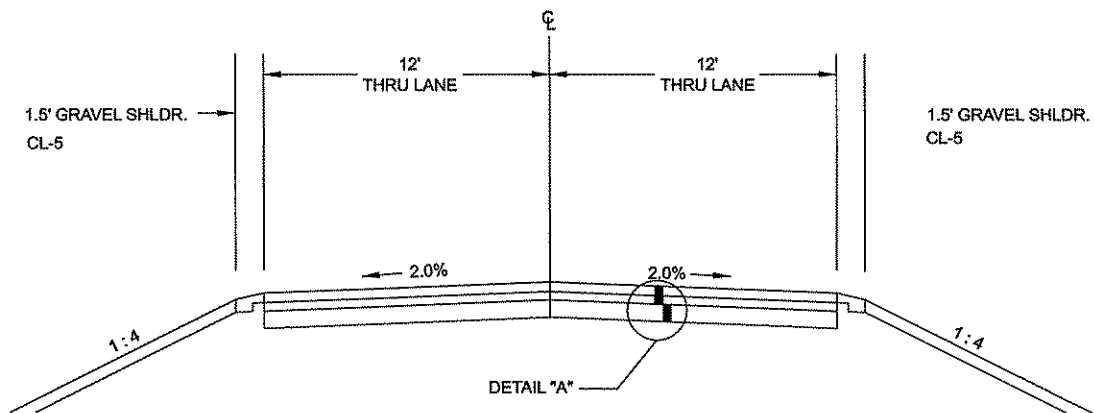
COUNTY PROJECT NO. 11-20-54

STATEMENT OF
ESTIMATED QUANTITIES

Sheet 2 of 16 Sheets

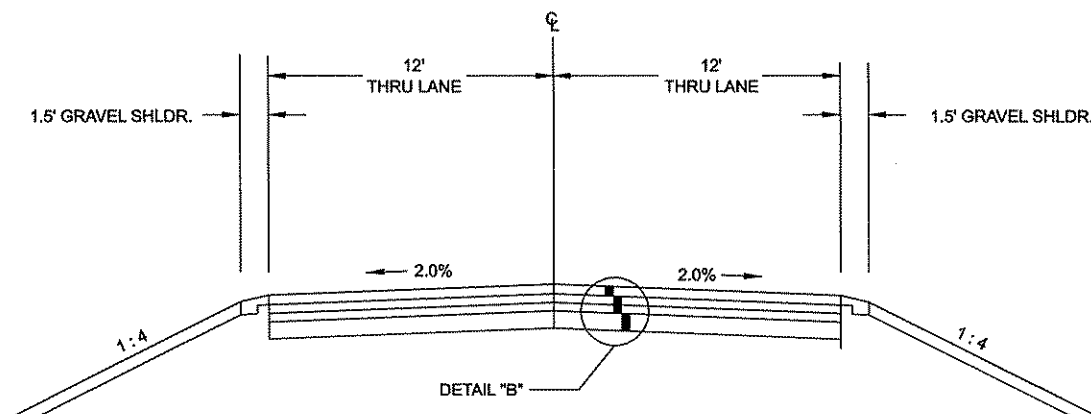
EXISTING TYPICAL SECTION

STA. 9+90 - 129+70, 135+50 - 145+45

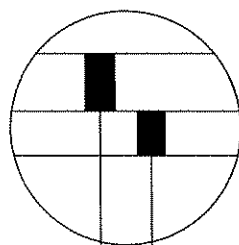


PROPOSED TYPICAL SECTION

STA. 9+90 - 129+70, 135+50 - 145+45

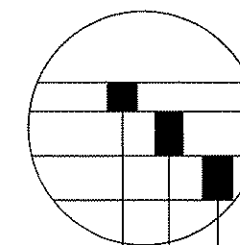


DETAIL "A"



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:\11-01-00\CSAH_54_(CSAH14-SouthCountyLine)\Plant4 Details.dgn 03/18/2011 8:28:11 AM

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 SIGNATURE: *[Signature]*
 DATE: *[Signature]* LICENSE NO. 40416

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



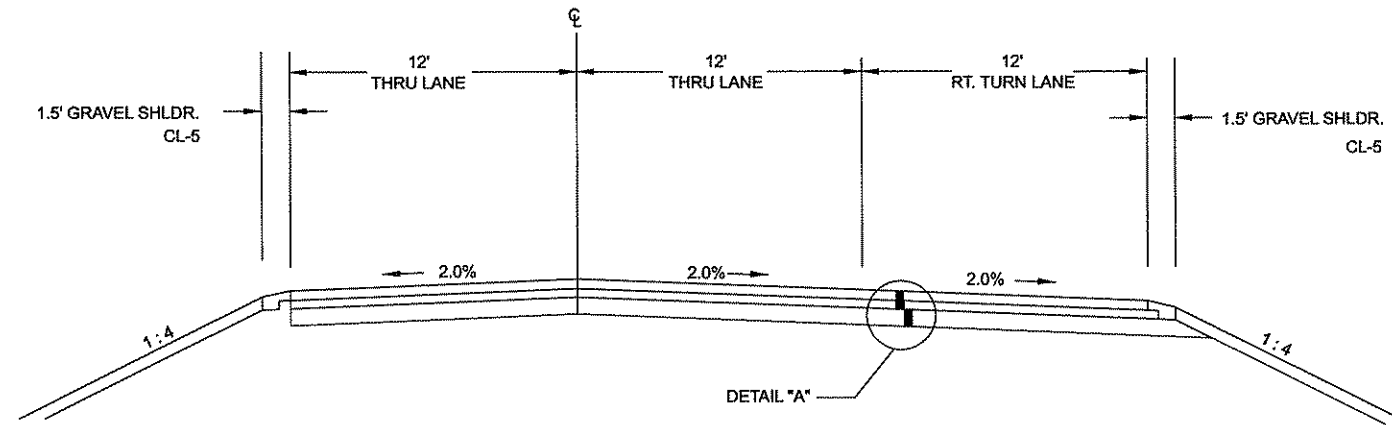
**ANOKA COUNTY
HIGHWAY DEPT.**

STATE PROJECT NO. _____
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 CITY PROJECT NO. _____
 COUNTY PROJECT NO. 11-20-54

TYPICAL SECTION
 Sheet 3 of 16 Sheets

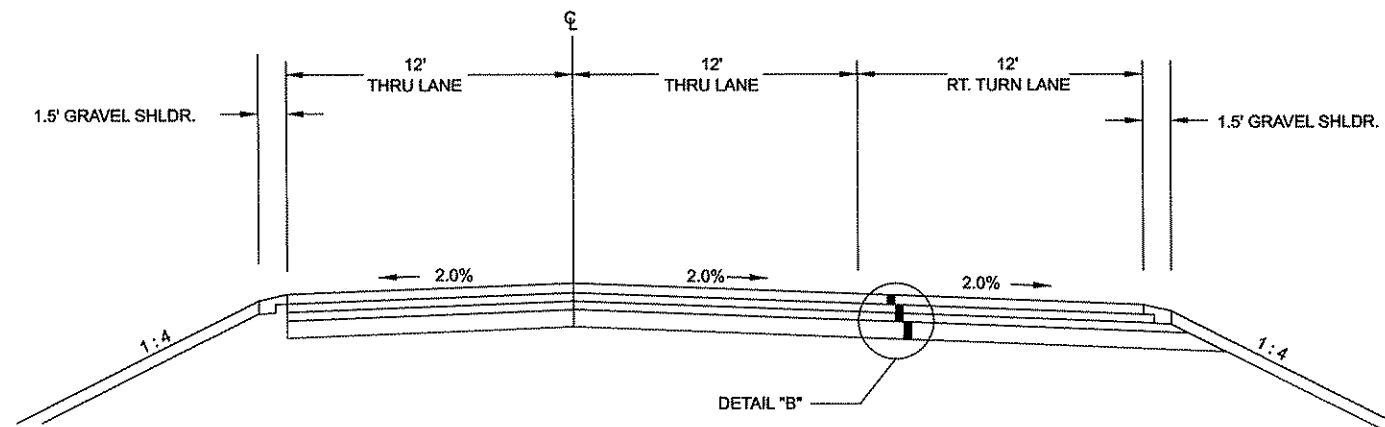
EXISTING TYPICAL SECTION (RT. TURN LANE - LNB)

STA. 129+70 - 135+50, STA. 145+45 - 152+80



PROPOSED TYPICAL SECTION (RT. TURN LANE - LNB)

STA. 129+70 - 135+50, STA. 145+45 - 152+80



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\11-01-00\CSAH_54_(CSAH14-SouthCountyLine)\Plan4_Details.dgn 03/18/2011 8:28:27 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: 4/8/11 LICENSE NO. 40416

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



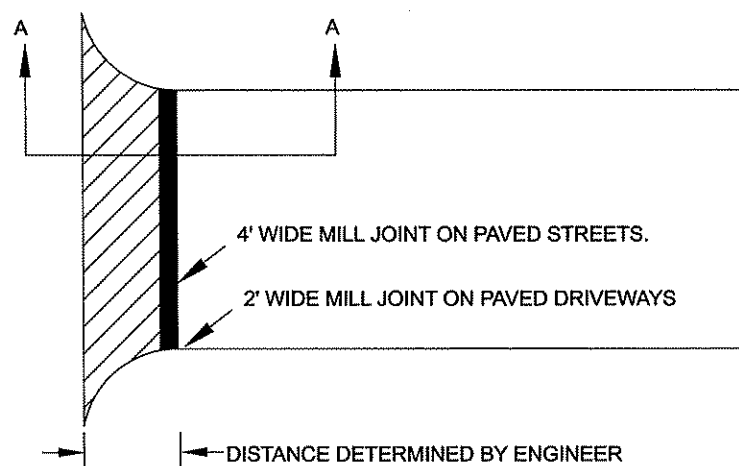
**ANOKA COUNTY
 HIGHWAY DEPT.**

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 CITY PROJECT NO. _____
 COUNTY PROJECT NO. 11-20-54

TYPICAL SECTION
 Sheet 4 of 16 Sheets

PAVED DRIVEWAYS / PAVED STREETS

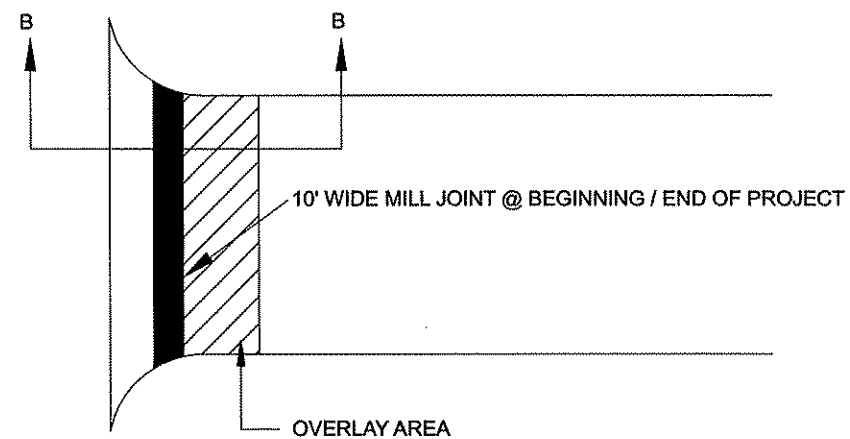
JOINT DETAILS



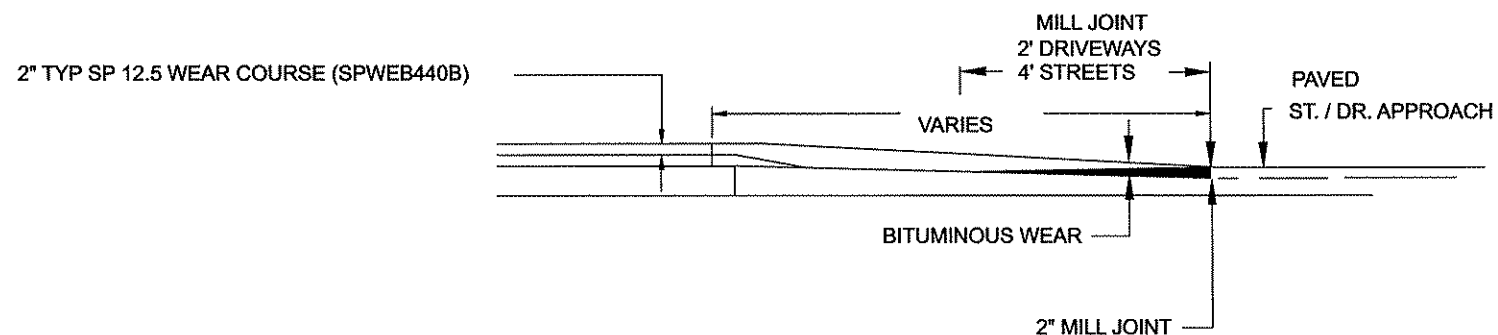
DRIVEWAYS BUMPED OUT TO BE PAVED WITH MAINLINE, PAID AS MAINLINE.
 DRIVEWAYS PAVED IN DIFFERENT OPERATION FROM MAIN LINE PAVING PAID AS ST. APPROACH.
 STREETS PAID AS ST. APPROACH.

MAINLINE

JOINT DETAILS

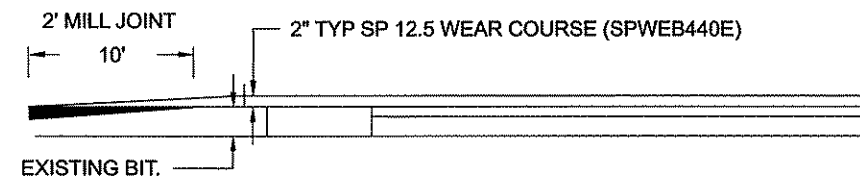


JOINT DETAILS A - A



PAID AS STREET APPROACH

JOINT DETAILS B - B

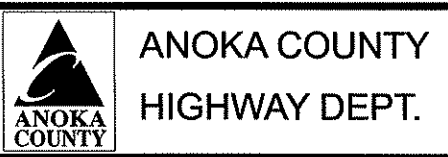


NO	DATE	BY	CHKD	APPR	REVISION

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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: 4/8/11 LICENSE NO. 40416

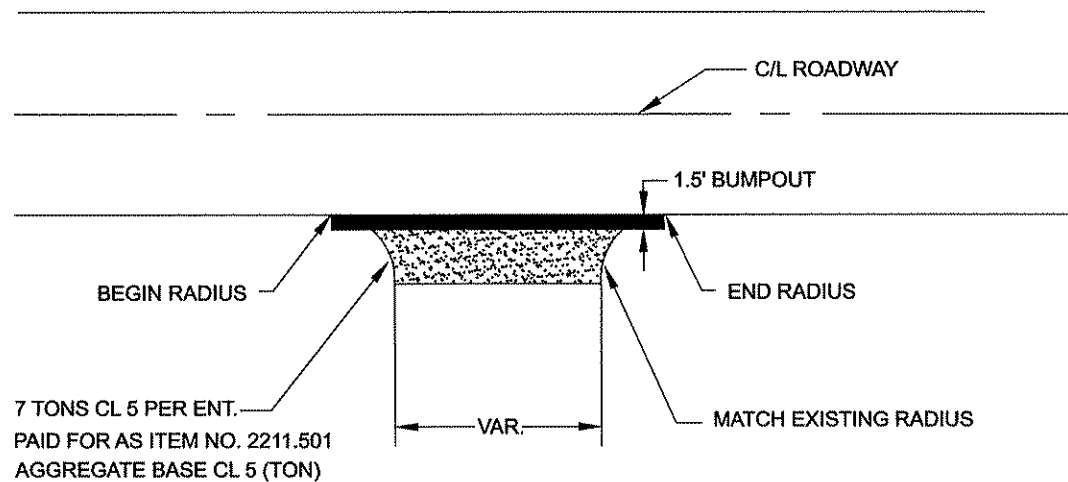
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 CHECKED BY: JO DATE: _____



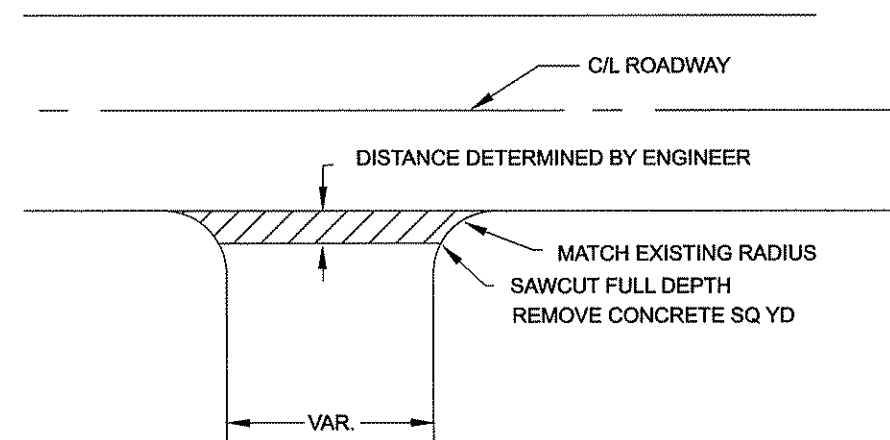
STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 CITY PROJECT NO. _____
 COUNTY PROJECT NO. 11-20-54

MISCELLANEOUS DETAILS
 Sheet 5 of 16 Sheets

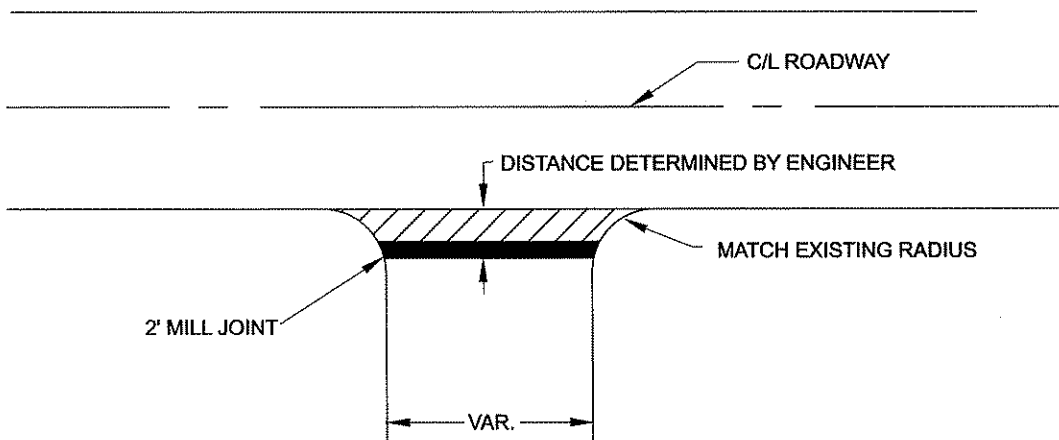
GRAVEL DRIVEWAYS AND FIELD ENTRANCES



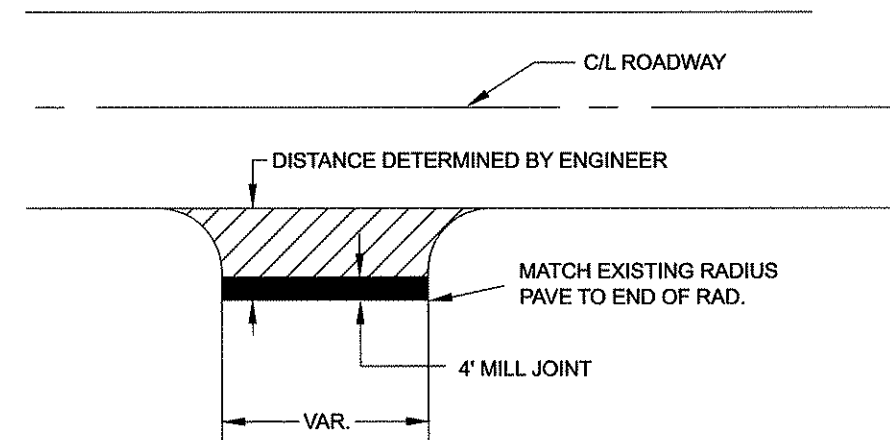
CONCRETE DRIVEWAYS



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:\11-01-00\CSAH_54_(CSAH14-SouthCountyLine)\Plan\4 Details.dgn 03/18/2011 8:28:55 AM

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PRINT NAME: CHARLES CADENHEAD

SIGNATURE: *[Signature]*

DATE: 4/8/11 LICENSE NO. 40419

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. _____

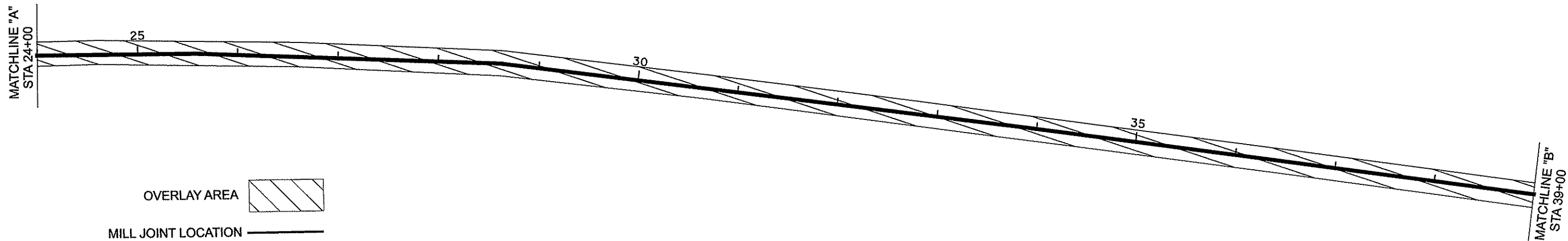
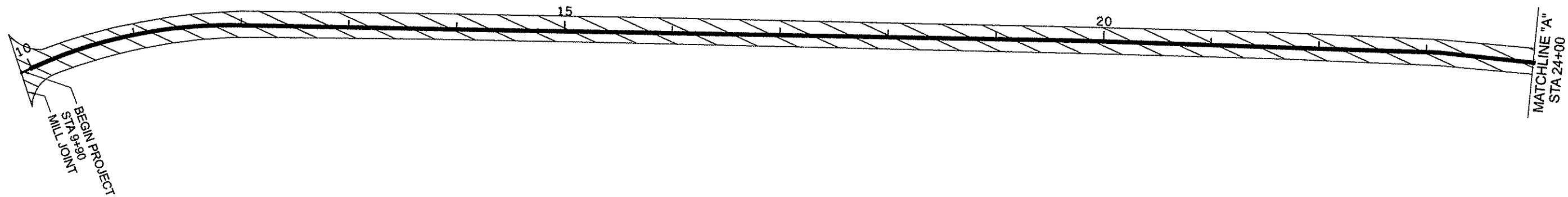
STATE AID PROJECT NO. _____




CITY PROJECT NO. _____

COUNTY PROJECT NO. 11-20-54

MISCELLANEOUS DETAILS

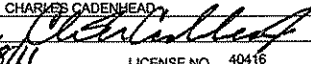
Sheet 6 of 16 Sheets



OVERLAY AREA 
 MILL JOINT LOCATION 
 DRIVEWAYS & STREET APPROACHES 
 NOTE: ALL MILL JOINT LOCATIONS ARE TO BE FIELD VERIFIED BY ON-SITE INSPECTOR

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\11-01-00\CSAH_54_(CSAH14-SouthCountyLine)\Plan3 plan sheet.dgn
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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: 4/8/11 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. 11-20-54

CONSTRUCTION PLAN
 STA 9+90 TO 39+00
 Sheet 7 of 16 Sheets

MATCHLINE "B"
STA 39+00

40

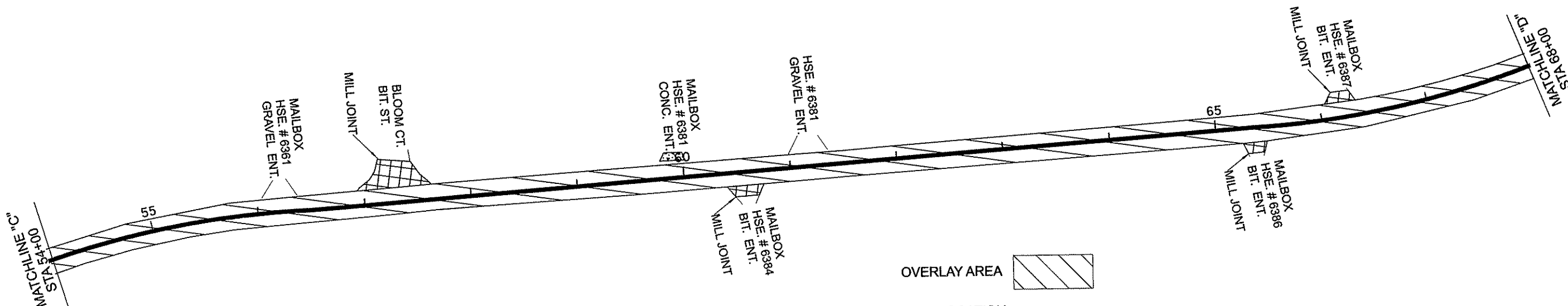
45

50

MATCHLINE "C"
STA 54+00

MAILBOX
HSE. # 6351
GRAVEL ENT.

MILL JOINT
MAILBOX
HSE. # 6384
BIT. ENT.



MATCHLINE "C"
STA 40+00

55

MAILBOX
HSE. # 6381
GRAVEL ENT.

MILL JOINT
BLOOM CT.
BIT. ST.

MAILBOX
HSE. # 6381
CONC. ENT.

HSE. # 6381
GRAVEL ENT.

MILL JOINT
MAILBOX
HSE. # 6384
BIT. ENT.

OVERLAY AREA

MILL JOINT LOCATION

DRIVEWAYS &
STREET APPROACHES

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



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\11-01-00\CSAH_54_(CSAH14-SouthCountyLine)\Plan3 plan sheet .dgn 03/18/2011 8:26:59 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
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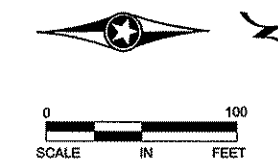
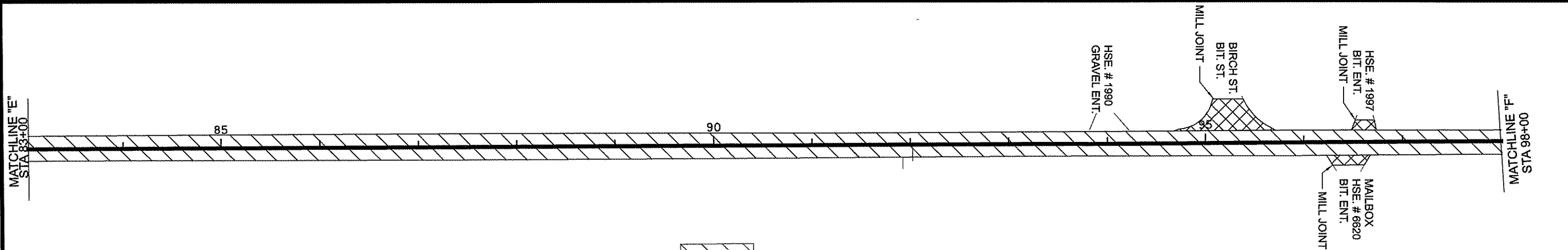
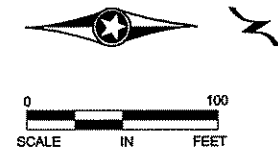
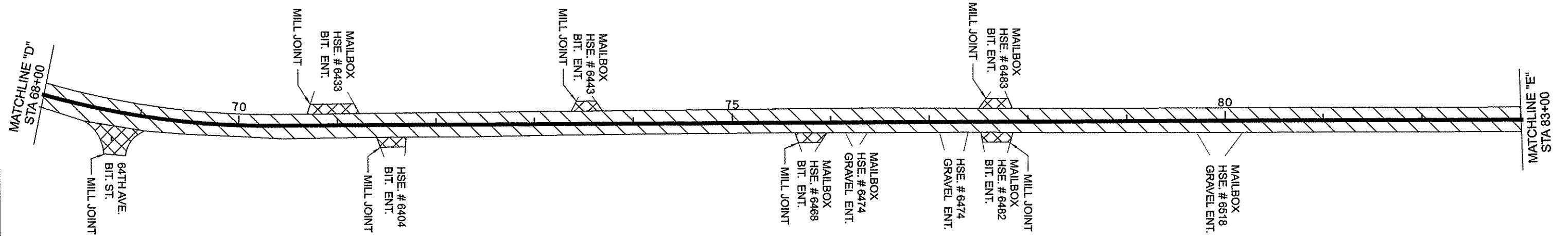
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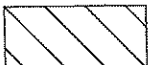




**ANOKA COUNTY
HIGHWAY DEPT.**

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 CITY PROJECT NO. _____
 COUNTY PROJECT NO. 11-20-54

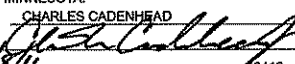
CONSTRUCTION PLAN
 STA 39+00 TO 68+00
 Sheet 8 of 16 Sheets



OVERLAY AREA 
 MILL JOINT LOCATION 
 DRIVEWAYS & STREET APPROACHES 
 NOTE: ALL MILL JOINT LOCATIONS ARE TO BE FIELD VERIFIED BY ON-SITE INSPECTOR

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\11-01-00\CSAH_54 (CSAH14-SouthCountyLine)\Plan\3 plan sheet.dgn
 03/18/2011 8:27:16 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.
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 SIGNATURE: 
 DATE: 4/8/11 LICENSE NO. 40416

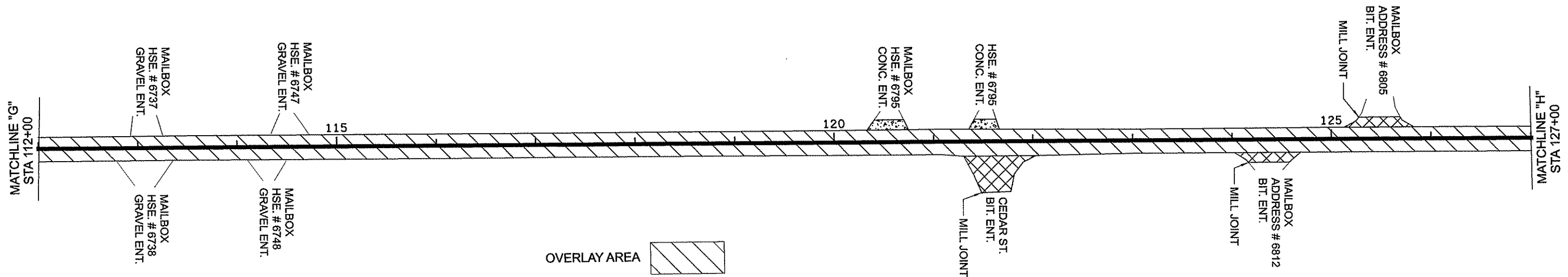
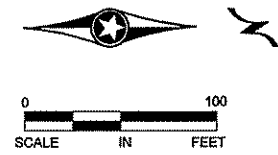
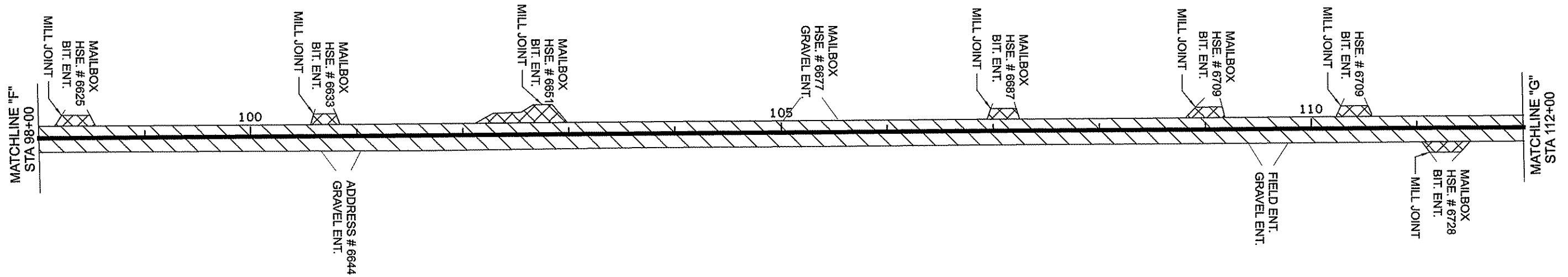
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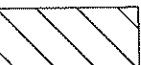




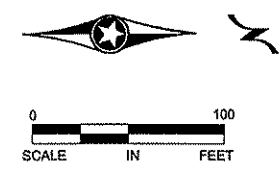
ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 CITY PROJECT NO. _____
 COUNTY PROJECT NO. 11-20-54

CONSTRUCTION PLAN
 STA 68+00 TO 98+00
 Sheet 9 of 16 Sheets




OVERLAY AREA 
 MILL JOINT LOCATION 
 DRIVEWAYS & STREET APPROACHES 
 NOTE: ALL MILL JOINT LOCATIONS ARE TO BE FIELD VERIFIED BY ON-SITE INSPECTOR



NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\11-01-00\CSAH_54 (CSAH14-SouthCountyLine)\Plan3 plan sheet.dgn
 03/18/2011 8:27:32 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: 4/8/11 LICENSE NO. 40416

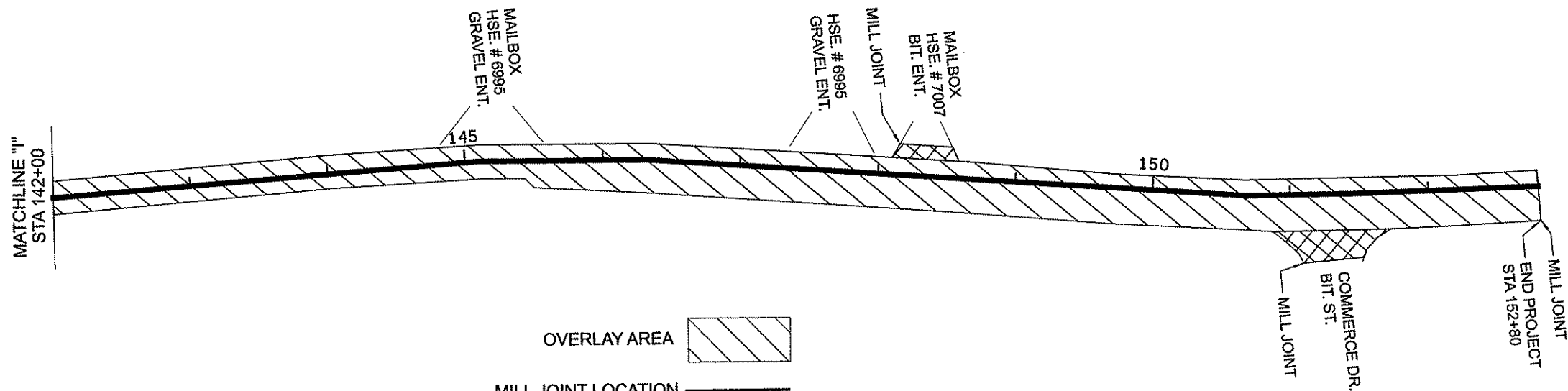
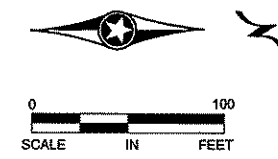
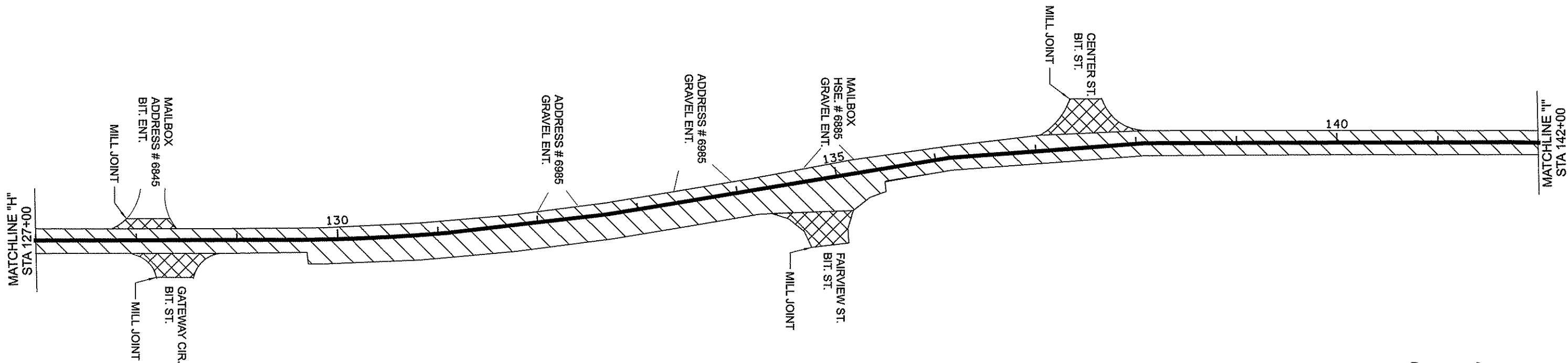
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 DESIGN BY: SRK DATE: 2/24/2011
 CHECKED BY: JO DATE:

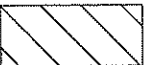




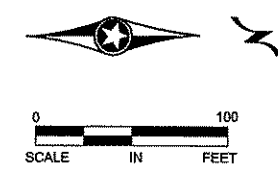
ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
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 CITY PROJECT NO. _____
 COUNTY PROJECT NO. 11-20-54

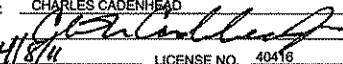
CONSTRUCTION PLAN
 STA 98+00 TO 127+00
 Sheet 10 of 16 Sheets



OVERLAY AREA 
 MILL JOINT LOCATION 
 DRIVEWAYS & STREET APPROACHES 
 NOTE: ALL MILL JOINT LOCATIONS ARE TO BE FIELD VERIFIED BY ON-SITE INSPECTOR



NO	DATE	BY	CKD	APPR	REVISION
NAME: P:111-01-00\CSAH_54_(CSAH14-SouthCountyLine)\Plan3 plan sheet.dgn					
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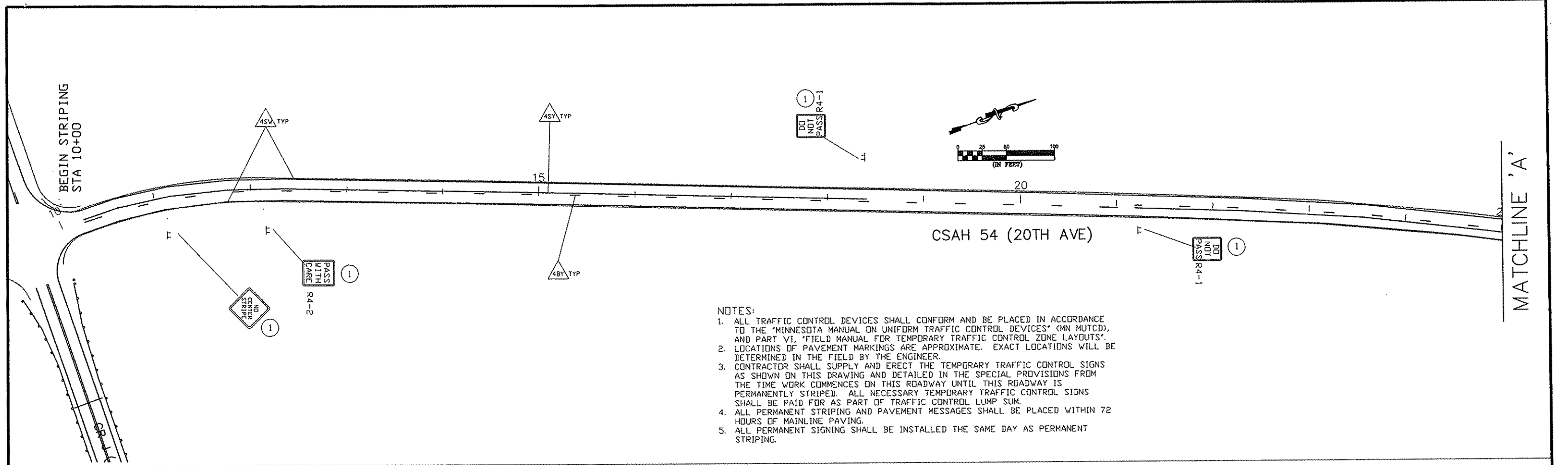
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: CHARLES CADENHEAD
 SIGNATURE: 
 DATE: 4/8/11 LICENSE NO. 40416

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

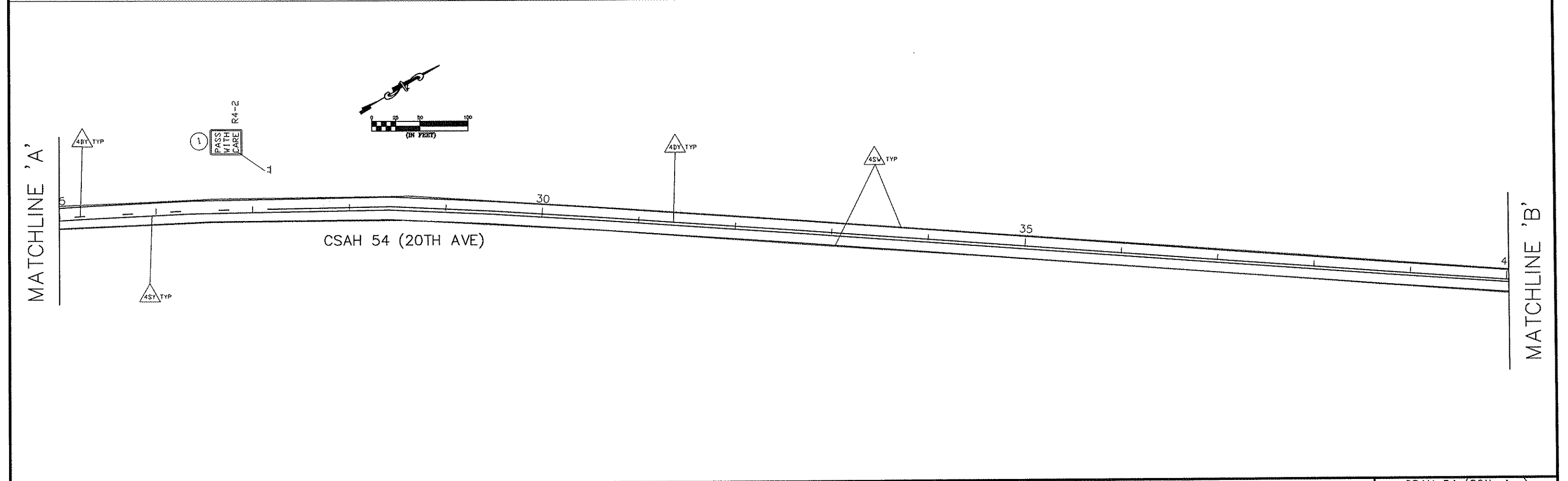


STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 CITY PROJECT NO. _____
 COUNTY PROJECT NO. 11-20-54

CONSTRUCTION PLAN
 STA 127+00 TO 152+80
 Sheet 11 of 16 Sheets

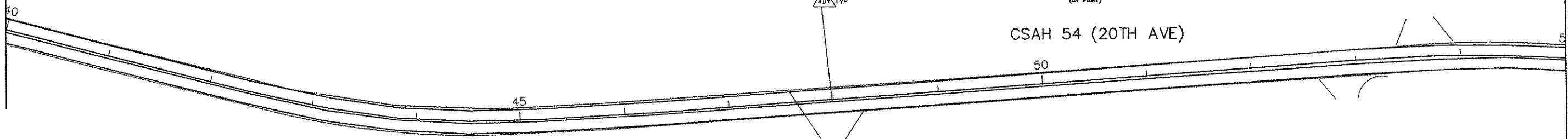


- NOTES:
1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE 'MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' (MN MUTCD), AND PART VI, 'FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS'.
 2. LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
 3. 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.
 4. ALL PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.
 5. ALL PERMANENT SIGNING SHALL BE INSTALLED THE SAME DAY AS PERMANENT STRIPING.



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. PRINT NAME: CHARLES CADENHEAD SIGNATURE: <i>[Signature]</i> DATE: 4/8/11 REG. NO. 40416					DRAWN BY: MTH DATE: 1/26/11 DESIGN BY: MTH DATE: 1/26/11 CHECKED BY: JR DATE: 3/01/11	ANOKA COUNTY HIGHWAY DEPT.	STATE PROJECT NO. _____ STATE AID PROJECT NO. _____ STATE AID PROJECT NO. _____ COUNTY PROJECT NO. 11-20-54	CSAH 54 (20th Ave) TEMPORARY SIGNING PERMANENT STRIPING AND PAVEMENT MESSAGES Sheet 12 of 16 Sheets	
NO	DATE	BY	CKD	APPR	REVISION				
NAME: T:\Traffic\dwg\CSAH 54 (20th Av_Freeway Dr)\11-20_21-54.dwg									

MATCHLINE 'B'

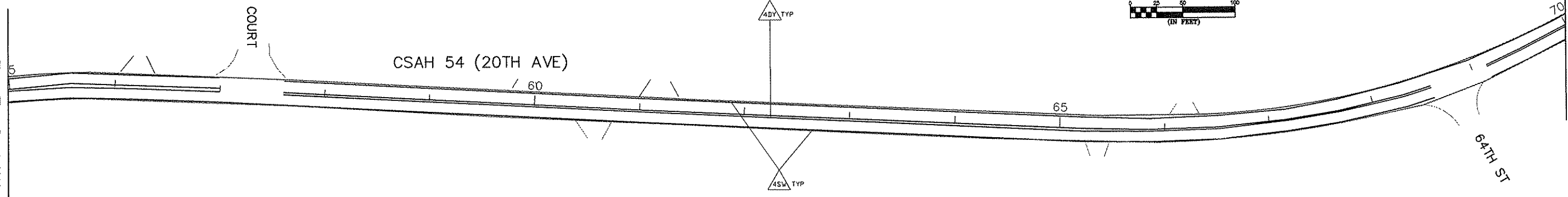


CSAH 54 (20TH AVE)

NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
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5. ALL PERMANENT SIGNING SHALL BE INSTALLED THE SAME DAY AS PERMANENT STRIPING.

MATCHLINE 'C'



CSAH 54 (20TH AVE)

64TH ST

NO	DATE	BY	CKD	APPR	REVISION

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.

PRINT NAME: CHARLES CADENHEAD

SIGNATURE: *Charles Cadenhead*

DATE: 4/8/11 REG. NO. 40416

DRAWN BY: MTH DATE 1/26/11

DESIGN BY: MTH DATE 1/26/11

CHECKED BY: JR DATE 3/01/11



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____

STATE AID PROJECT NO. _____

STATE AID PROJECT NO. _____

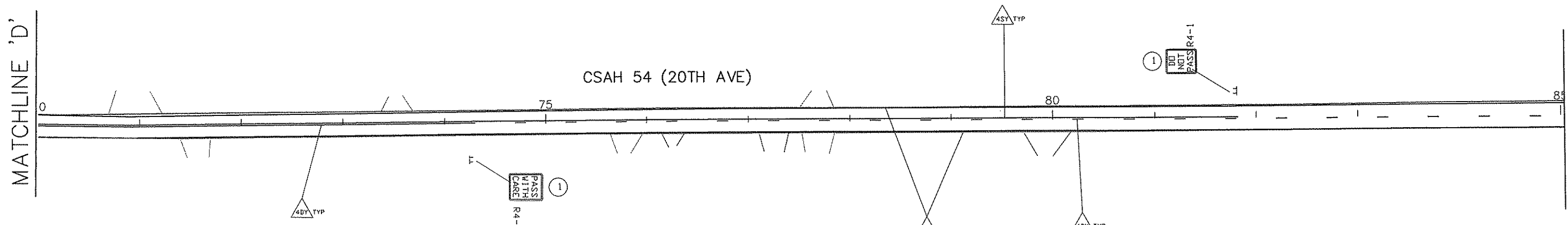
COUNTY PROJECT NO. 11-20-54

CSAH 54 (20th Ave)
TEMPORARY SIGNING
PERMANENT STRIPING AND
PAVEMENT MESSAGES

Sheet 13 of 16 Sheets

MATCHLINE 'D'

MATCHLINE 'E'

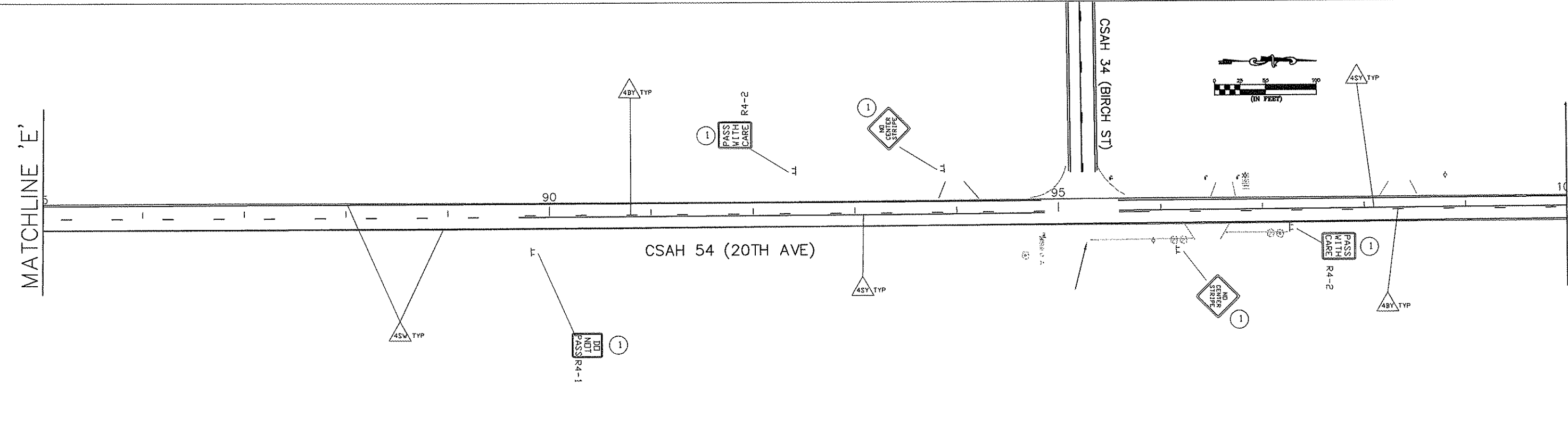


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MATCHLINE 'E'

MATCHLINE 'F'



NO	DATE	BY	CKD	APPR	REVISION

NAME: T:\Traffic\dwg\CSAH 54 (20th Av_Freeway Dr)\11-20_21-54.dwg

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PRINT NAME: CHARLES CADENHEAD

SIGNATURE: *[Signature]*

DATE: 3/8/11 REG. NO. 40416

DRAWN BY: MTH DATE 1/26/11

DESIGN BY: MTH DATE 1/26/11

CHECKED BY: JR DATE 3/01/11



ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____

STATE AID PROJECT NO. _____

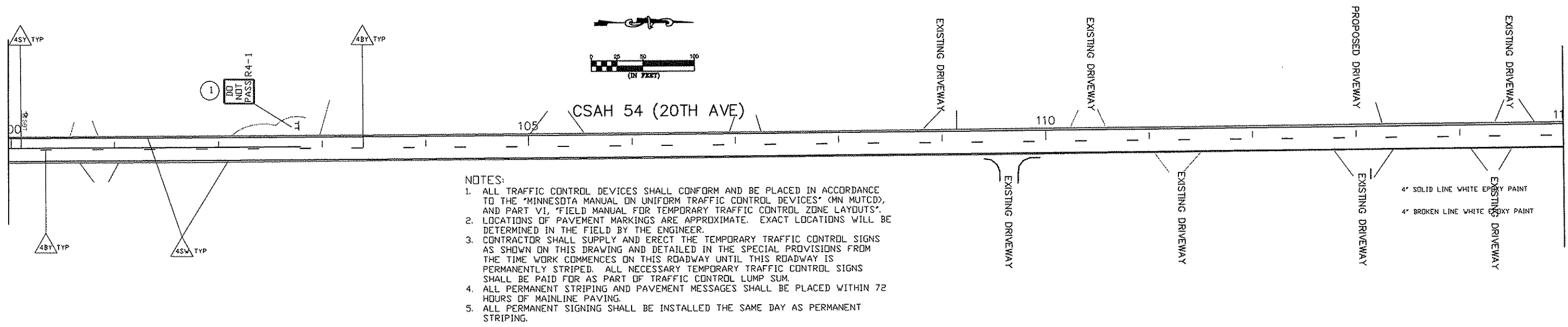
STATE AID PROJECT NO. _____

COUNTY PROJECT NO. 11-20-54

CSAH 54 (20th Ave)
TEMPORARY SIGNING
PERMANENT STRIPING AND
PAVEMENT MESSAGES

Sheet 14 of 16 Sheets

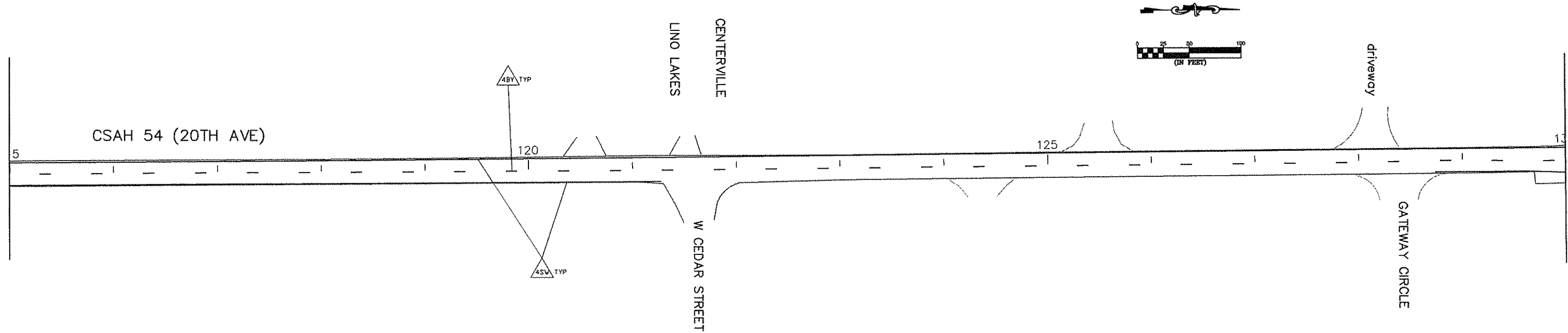
MATCHLINE 'F'



MATCHLINE 'G'

- NOTES:
1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE PLACED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD), AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
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MATCHLINE 'G'



MATCHLINE 'H'

NO	DATE	BY	CKD	APPR	REVISION

NAME: T:\Traffic\dwg\CSAH 54 (20th Av_Freeway Dr)\11-20_21-54.dwg

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.

PRINT NAME: CHARLES CADENHEAD

SIGNATURE: *[Signature]*

DATE: *[Date]* REG. NO. 40418

DRAWN BY: MTH DATE 1/26/11

DESIGN BY: MTH DATE 1/26/11

CHECKED BY: JR DATE 3/01/11

ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____

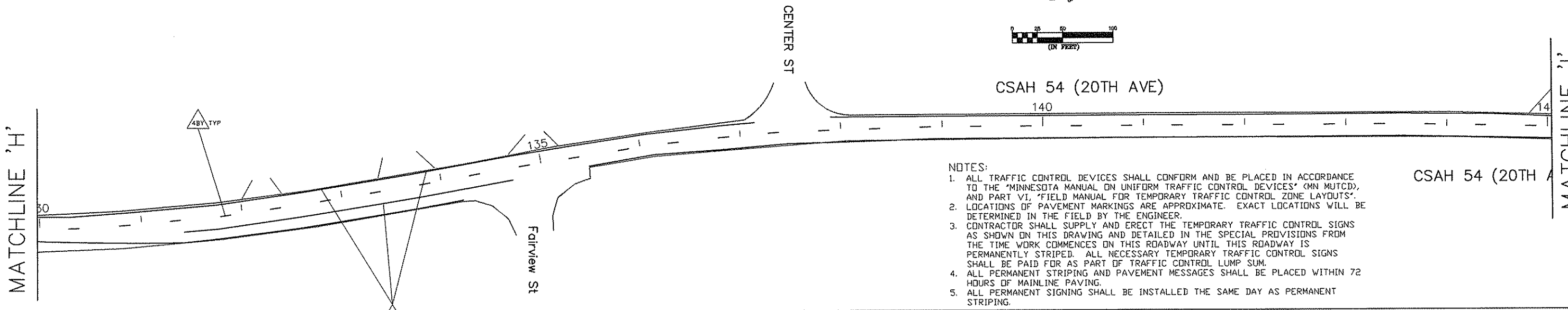
STATE AID PROJECT NO. _____

STATE AID PROJECT NO. _____

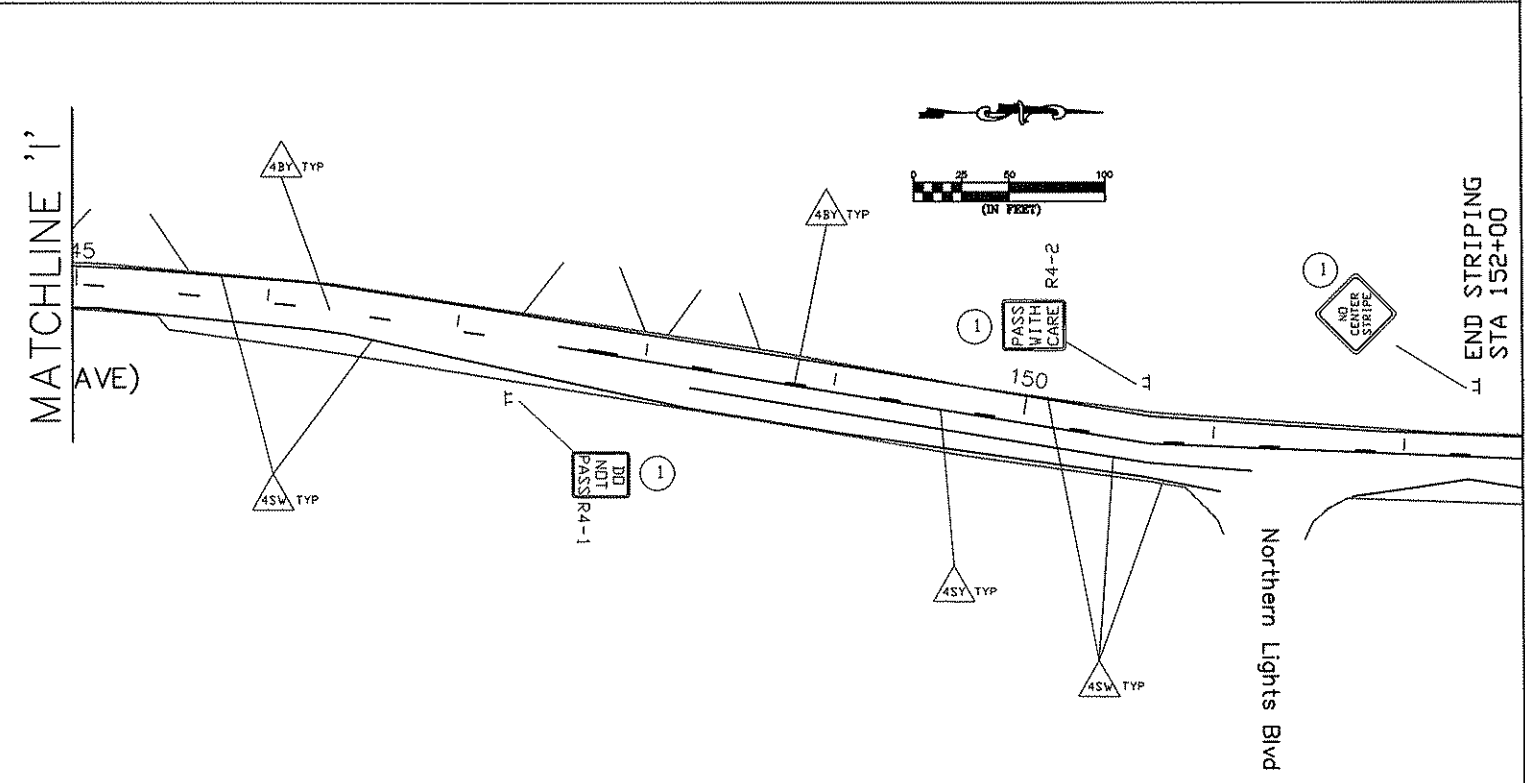
COUNTY PROJECT NO. 11-20-54

CSAH 54 (20th Ave)
TEMPORARY SIGNING
PERMANENT STRIPING AND
PAVEMENT MESSAGES

Sheet 15 of 16 Sheets



- NOTES:
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TEMPORARY TRAFFIC CONTROL SIGNS						
M. U. T. C. D. CODE	SIZE	PANEL AREA FT. ²	INSERT	QUANTITY		MOUNTING HEIGHT (to pavement edge) FT.
				No.	POST	
W8-12	48" x 48"	16.00		4	2	7.0'
R4-1	24" x 30"	5.00		6	1	7.0'
R4-2	24" x 30"	5.00		6	1	7.0'
W8-1A	48" x 48"	16.00		AS NEEDED		
W8-1A	48" x 48"	16.00		AS NEEDED		
W8-8	48" x 48"	16.00		AS NEEDED		
W8-11	48" x 48"	16.00		AS NEEDED		

Item	Quantity	Units
4" Double Yellow Striping	4590	Lin Ft
4" Solid Yellow Striping	3937	Lin Ft
4" Broken Yellow Striping	1800	Lin Ft
4" Solid White Striping	28807	Lin Ft
4" Broken White Striping	0	Lin Ft
24" Yellow Thermoplastic	0	Lin Ft
24" White Thermoplastic	0	Lin Ft
3'x6' Zebra Crosswalk Thermoplastic	0	SQ FT
Right Turn Arrow Thermoplastic	0	Each
Left Turn Arrow Thermoplastic	0	Each
Thru/Right Turn Arrow Thermoplastic	0	Each
Thru Arrow Thermoplastic	0	Each

	4" SOLID LINE DOUBLE YELLOW PAINT		PAVEMENT MESSAGE RIGHT
	4" SOLID LINE YELLOW PAINT		PAVEMENT MESSAGE LEFT
	4" BROKEN LINE YELLOW PAINT		PAVEMENT MESSAGE THRU/RIGHT
	4" SOLID LINE WHITE PAINT		PAVEMENT MESSAGE THRU
	4" BROKEN LINE WHITE PAINT	<u>SEE SPECIAL PROVISIONS</u>	
	24" YELLOW PERMANENT PAVEMENT MESSAGE		TEMPORARY TRAFFIC CONTROL SIGN
	24" WHITE PERMANENT PAVEMENT MESSAGE		F & I PERMANENT SIGN
	3' x 6' ZEBRA CROSSWALK		SALVAGE PERMANENT SIGN
			RE-INSTALL PERMANENT SIGN

NO	DATE	BY	CKD	APPR	REVISION

NAME: T:\Traffic\dwg\CSAH 54 (20th Av_Freeway Dr)\11-20_21-54.dwg

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.
 PRINT NAME: CHARLES CADENHEAD
 SIGNATURE:
 DATE: 1/8/11 REG. NO. 40476

DRAWN BY: MTH DATE: 1/26/11
 DESIGN BY: MTH DATE: 1/26/11
 CHECKED BY: JR DATE: 3/01/11

ANOKA COUNTY
HIGHWAY DEPT.

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 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
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CSAH 54 (20th Ave)
 TEMPORARY SIGNING
 PERMANENT STRIPING AND
 PAVEMENT MESSAGES
 Sheet 16 of 16 Sheets