

MINNESOTA DEPARTMENT OF TRANSPORTATION

ANOKA COUNTY

CONSTRUCTION PLAN FOR 2" BITUMINOUS OVERLAY, AGGREGATE SHOULDERING

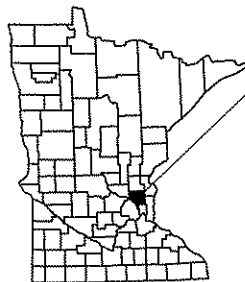
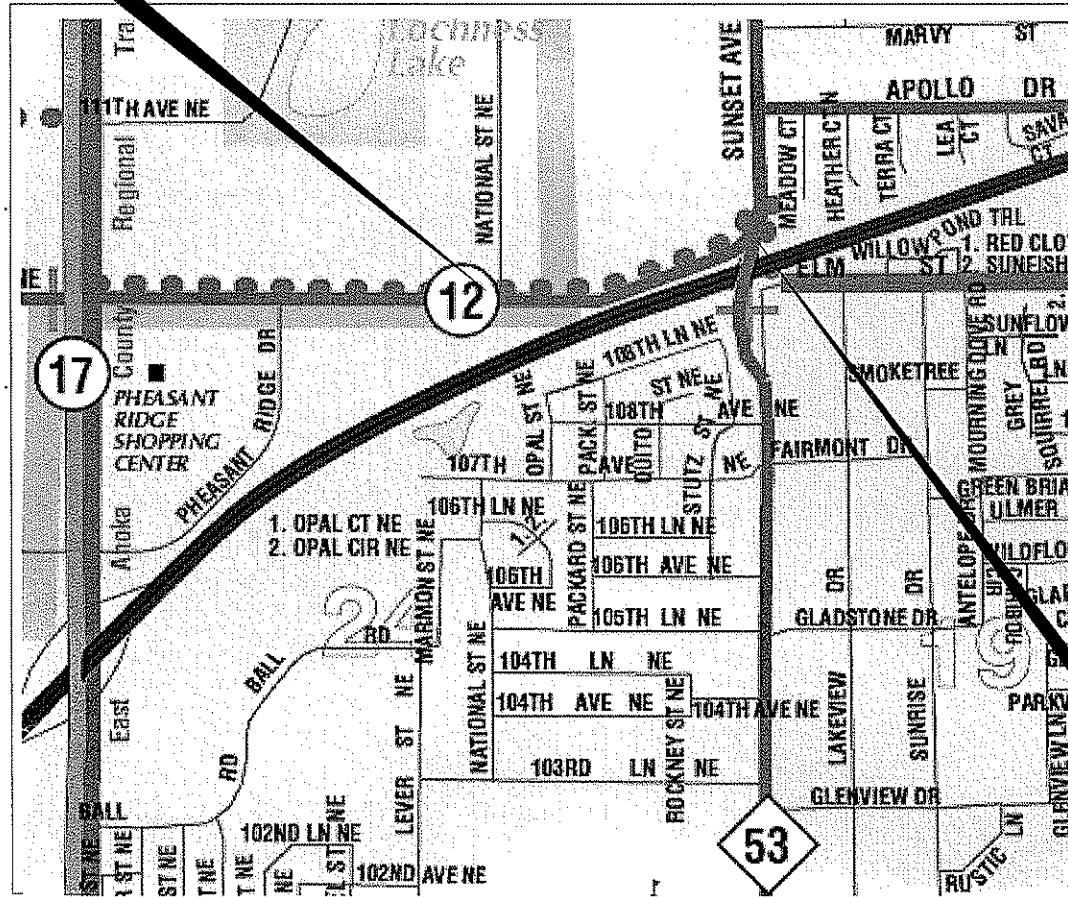
LOCATED ON C.S.A.H. 12 BETWEEN 500' WEST OF NATIONAL STREET AND COUNTY ROAD 53

COUNTY PROJ. NO. 09-10-12
C.S.A.H. 12

GROSS LENGTH 2936 FEET 0.56 MILES
BRIDGES-LENGTH 0 FEET 0.00 MILES
EXCEPTIONS-LENGTH 0 FEET 0.00 MILES
NET LENGTH 2936 FEET 0.56 MILES

BEG. PROJECT
STA. 10+00

END PROJECT
STA. 39+36



PROJECT LOCATION

CITY OF BLAINE
ANOKA COUNTY
MN/DOT TRANSPORTATION DISTRICT - METI
SECTION 24
TOWNSHIP 31 NORTH
RANGE 23 WEST



STATEMENT OF ESTIMATED QUANTITIES

09-10-12

ITEM NO.	ITEM	NOTE NO.	UNIT	TOTAL EST. QUANT.
2021.501	MOBILIZATION		LUMP SUM	1
2221.501	AGGREGATE SHOULDERING CLASS 5	1	TON	5
2221.609	AGGREGATE SHOULDERING CLASS 7B	1	TON	100
2232.604	MILL BITUMINOUS SURFACE (2") (JOINTS)		SQ YD	190
2357.502	BITUMINOUS MATERIAL FOR TACK COAT		GALLON	408
2360.609	TYPE MV3 WEAR (2" MVWE35035 B) MAINLINE WEAR	1	TON	928
2360.609	TYPE MV3 WEAR (2" MVWE35035 B) STREET APPROACH WEAR	1	TON	9
2540.602	INSTALL MAIL BOX SUPPORT		EACH	1
2563.601	TRAFFIC CONTROL		LUMP SUM	1
2584.603	4" SOLID LINE WHITE - EPOXY		LIN FT	5828
2584.603	4" BROKEN LINE YELLOW-EPOXY		LIN FT	270
2584.603	4" DOUBLE SOLID LINE YELLOW - EPOXY		LIN FT	1575
2584.603	4" SOLID LINE YELLOW - EPOXY		LIN FT	1030
2580.603	REMOVABLE LANE TAPE	2	LIN FT	235

NOTES

- NOTE 1 TRUCKING, PLACEMENT, AND COMPACTION INCIDENTAL TO ITEM.
NOTE 2 TO BE PLACED PRIOR TO LEAVING SITE AT END OF DAYS PAVING.

BASIS OF PLANNED QUANTITIES

- 2221.609 AGGREGATE SHOULDERING CLASS 7BC CU YDS * 1.8 = TONS
2357.502 BITUMINOUS MATERIAL FOR TACK COAT .05 GAL / SQ YD
2360.609 TYPE MV3 WEAR MIXTURE (MVWE35035 B) 115 LBS/SQYD/IN THICKNESS
2580.603 REMOVABLE LANE TAPE 4' AT 60' INTERVALS FOR SKIPS

ORIGINAL SIGNED PLAN

PLAN SET

Sheet	PLAN SET
1	TITLE / SEQ
2	PLAN
3	TYPICALS
4	DETAILS
5	PAVEMENT MARKINGS

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 LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: Charles Cadenhead
SIGNATURE: *Charles Cadenhead*
DATE: 3/23/09 LICENSE NO. 40416

DRAWN BY: JF DATE 2/5/09
DESIGN BY: JF DATE 2/5/09
CHECKED BY: DATE



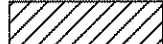


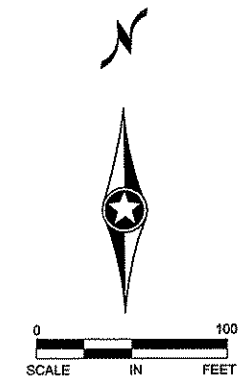
ANOKA COUNTY
HIGHWAY DEPT.

STATE PROJECT NO. _____
STATE PROJECT NO. _____
STATE PROJECT NO. _____
STATE PROJECT NO. 09-10-12

TITLE / SEQ

Sheet 1 of 5 Sheets

MILL JOINT 
 STREET PAVING AREA 
 MAINLINE OVERLAY 

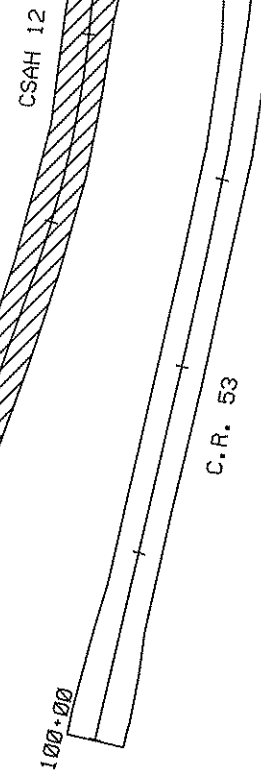
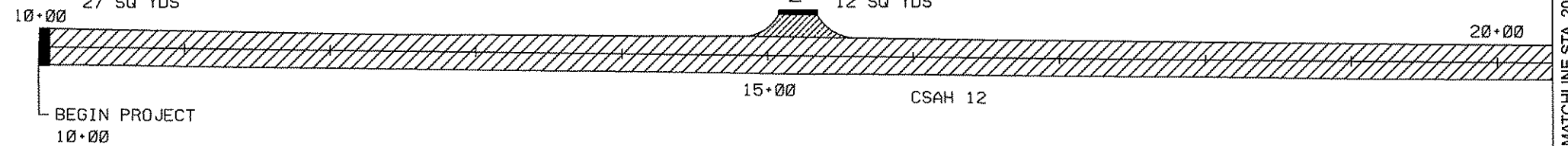


END PROJECT
 39+36
 10' MILL JOINT
 2" DEPTH
 151 SQ YDS

10' MILL JOINT
 2" DEPTH
 27 SQ YDS

8 TONS OF MV3

4' MILL JOINT
 2" DEPTH
 12 SQ YDS

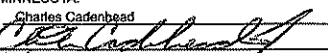


MATCHLINE STA. 20+50

5 TONS OF CLASS 5

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\09-01-00\CSAH_12_109 TO APOLLO\Plan\OVERLAY TEMPLET PLAN PLAN.dwg 05/2009 3:25:22 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
 SIGNATURE: 
 DATE: 3/23/09 LICENSE NO. 40416

DRAWN BY: JF DATE: 2/5/09
 DESIGN BY: JF DATE: 2/5/09
 CHECKED BY: _____ DATE: _____

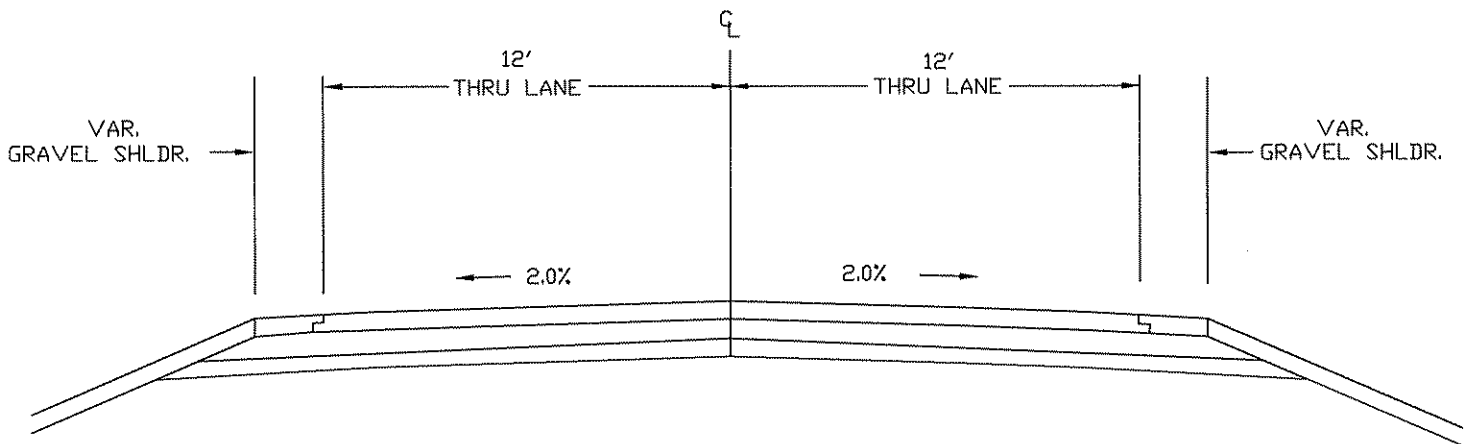


ANOKA COUNTY
 HIGHWAY DEPT.

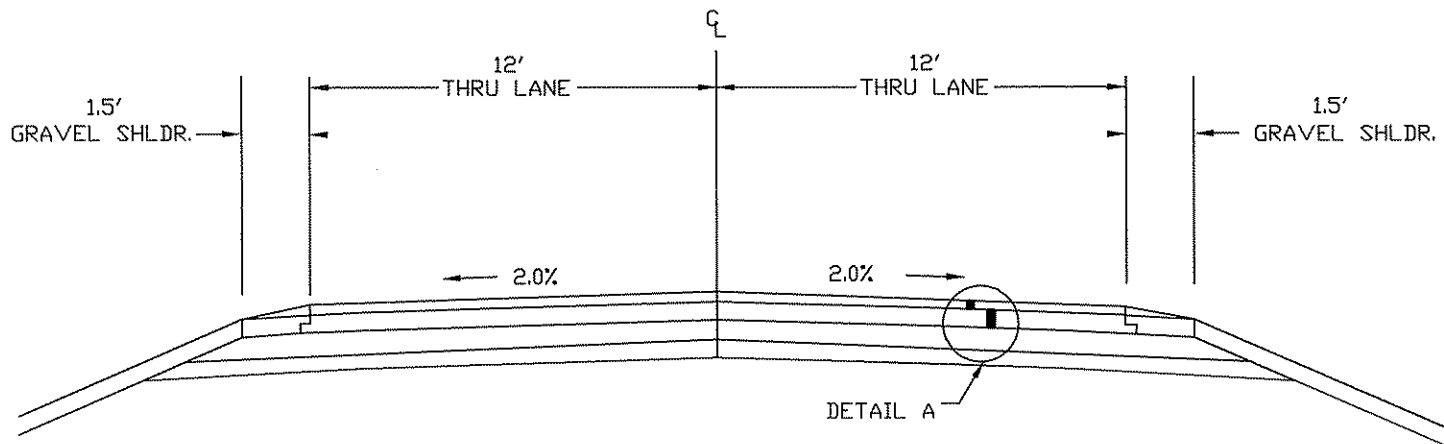
STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 CITY PROJECT NO. _____
 COUNTY PROJECT NO. 09-10-12

PLAN
 STA 10+00 TO 39+36
 Sheet 2 of 5 Sheets

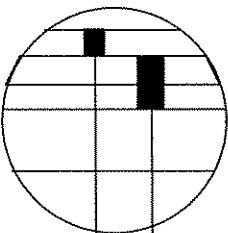
EXISTING STANDARD SECTION



PROPOSED SECTION



DETAIL A



2" TYPE MV3 WEAR (MVWE35035 B)
EXISTING BITUMINDUS

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:\09-01-00\CSAH_12_(109 TO APOLLO)\Plan\OVERLAY TEMPLET TYP DETAIL 3/23/09 3:26:03 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
SIGNATURE: *Charles Cadenhead*
DATE: 3/23/09 LICENSE NO. 42416

DRAWN BY JF DATE 2/5/09
DESIGN BY JF DATE 2/5/09
CHECKED BY _____ DATE _____

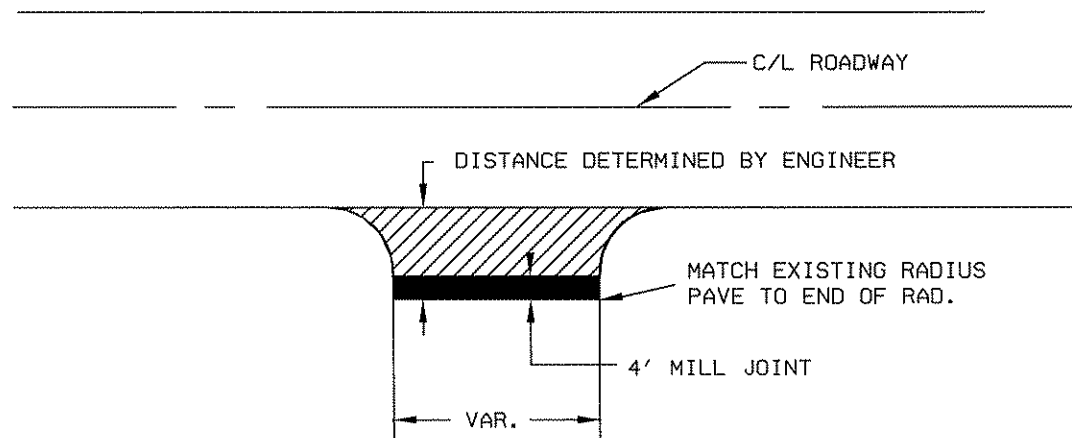


ANOKA COUNTY
HIGHWAY DEPT.

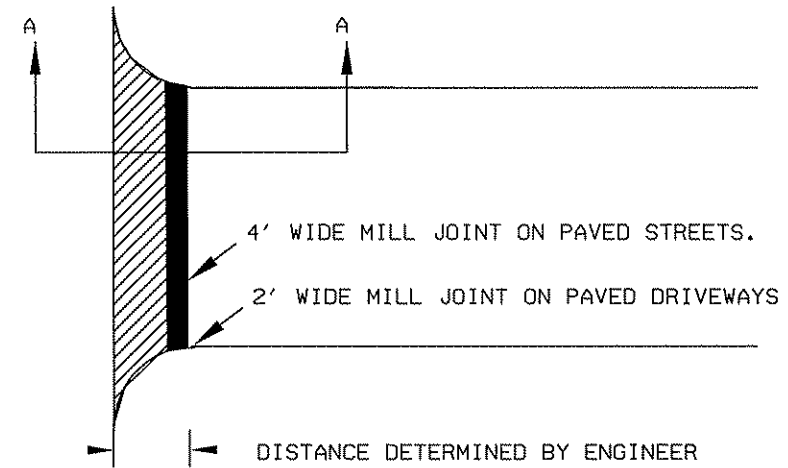
STATE PROJECT NO. _____
STATE AID PROJECT NO. _____
CITY PROJECT NO. _____
COUNTY PROJECT NO. 09-10-12

TYPICALS
Sheet 3 of 5 Sheets

PAVED STREET APPROACHES

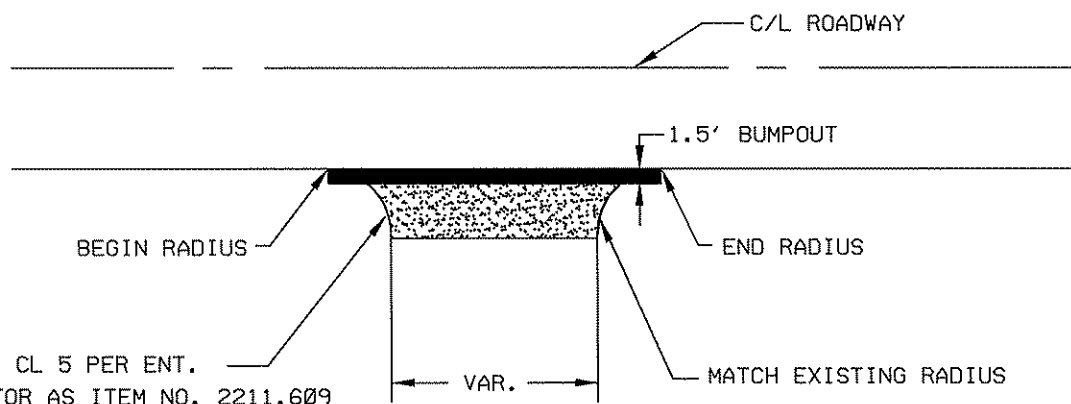


PAVED DRIVEWAYS / PAVED STREETS
JOINT DETAILS



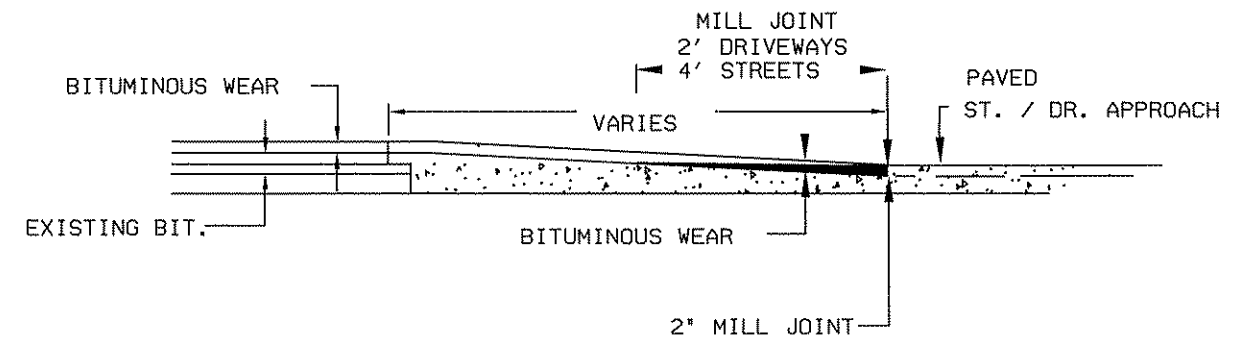
DRIVEWAYS BUMPED OUT AND PAVED WITH MAINLINE, PAID AS MAINLINE.
 DRIVEWAYS PAVED IN DIFFERENT OPERATION FROM MAIN LINE PAVING PAID AS ST./DR. APPROACH.
 STREETS PAID AS ST./DR. APPROACH.

GRAVEL DR. WAYS AND FEILD ENT.



5 TON CL 5 PER ENT.
 PAID FOR AS ITEM NO. 2211.609
 AGGREGATE BASE CL 5 (TON)

JOINT DETAILS A - A



PAID AS STREET APPROACH

NO	DATE	BY	CKD	APPR	REVISION

NAME: P:109-01-00\CSAH_12_108 TO APOLLO\Plan\OVERLAY TEMPLAT TYP DETAILS020905/2009 3:25:50 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

SIGNATURE: *Charles Cadenhead*

DATE: 3/23/09 LICENSE NO. 40416

DRAWN BY JF DATE 2/5/09
 DESIGN BY JF DATE 2/5/09
 CHECKED BY DATE

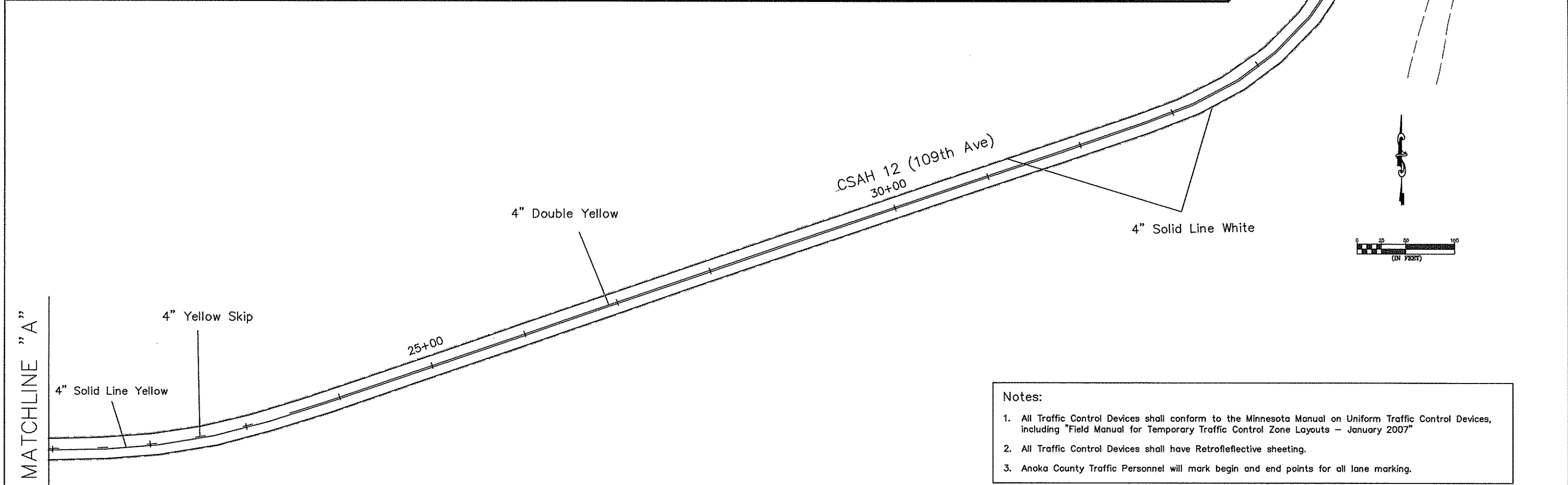
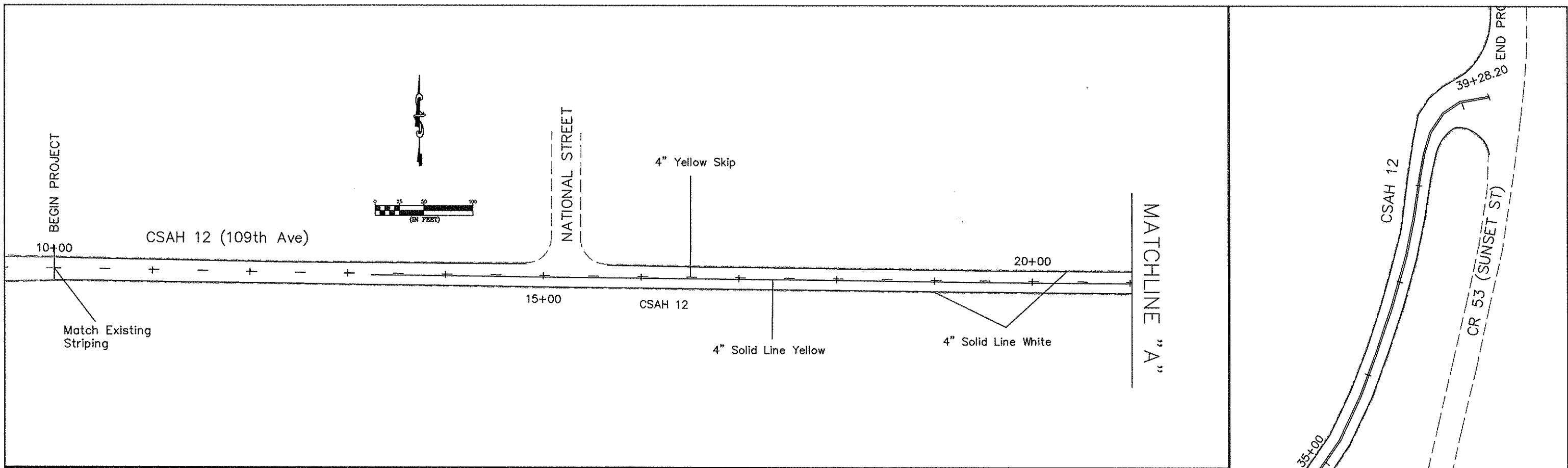


ANOKA COUNTY
 HIGHWAY DEPT.

STATE PROJECT NO. _____
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 CITY PROJECT NO. _____
 COUNTY PROJECT NO. 09-10-12

DETAILS

Sheet 4 of 5 Sheets



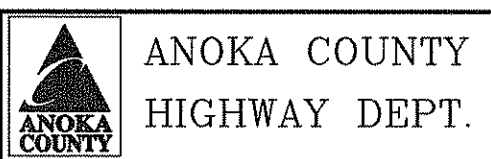
- Notes:
1. All Traffic Control Devices shall conform to the Minnesota Manual on Uniform Traffic Control Devices, including "Field Manual for Temporary Traffic Control Zone Layouts - January 2007"
 2. All Traffic Control Devices shall have Retroreflective sheeting.
 3. Anoka County Traffic Personnel will mark begin and end points for all lane marking.

NO	DATE	BY	CHKD	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 L. Anderson*
 SIGNATURE: *[Signature]*
 DATE: *3/23/09* REG. NO. *40416*

DRAWN BY: *MTH* DATE: *01/14/09*
 DESIGN BY: _____ DATE: _____
 CHECKED BY: _____ DATE: _____



STATE PROJECT NO. _____
 STATE AID PROJECT NO. _____
 STATE AID PROJECT NO. _____
 COUNTY PROJECT NO. 09-10-12

CSAH 12 (109th)
 Pavement Markings
 Sheet 5 of 5 Sheets