

PLAN SYMBOLS

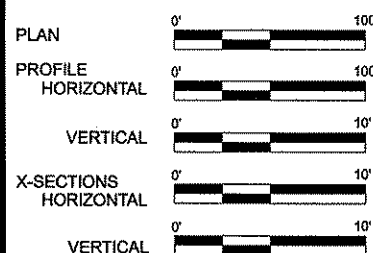
- COUNTY LINE \_\_\_\_\_
- TOWNSHIP OR RANGE LINE \_\_\_\_\_
- SECTION LINE \_\_\_\_\_
- QUARTER LINE \_\_\_\_\_
- SIXTEENTH LINE \_\_\_\_\_
- RIGHT OF WAY LINE \_\_\_\_\_
- SLOPE EASEMENT \_\_\_\_\_
- EXISTING RIGHT OF WAY \_\_\_\_\_
- PROPERTY LINE \_\_\_\_\_
- CORPORATE OR CITY LIMITS \_\_\_\_\_
- 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

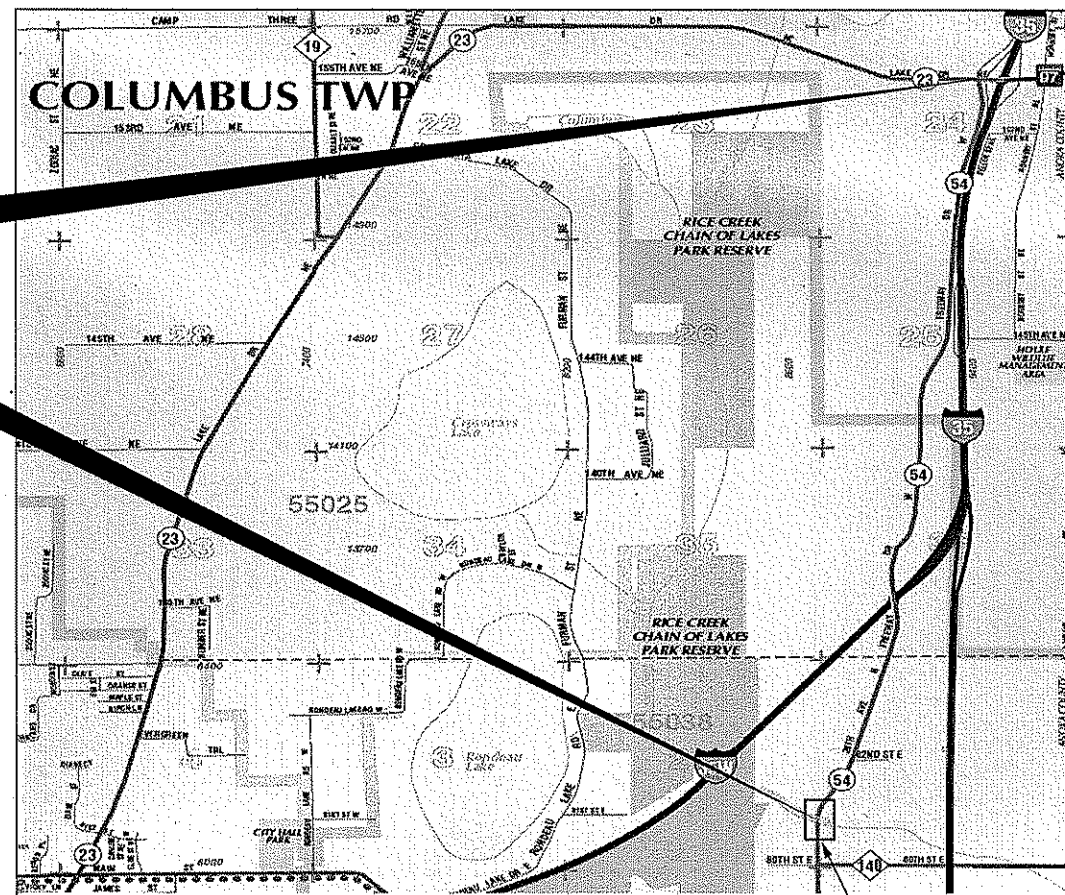
## ANOKA COUNTY

CONSTRUCTION PLAN FOR BIT. RECLAIM, BIT. OVERLAY, & AGG. SHOULDERING

LOCATED ON C.S.A.H. 54 BETWEEN 1545' N OF 80TH STREET AND LAKE DRIVE (CSAH 23)

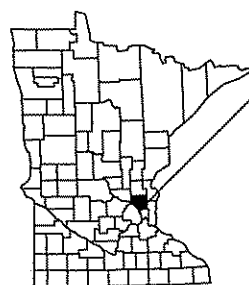
STATE PROJ. NO. 10-19-54

| C.S.A.H. 54       |       |      |             |
|-------------------|-------|------|-------------|
| GROSS LENGTH      | 18860 | FEET | 3.572 MILES |
| BRIDGES-LENGTH    | 290   | FEET | 0.055 MILES |
| EXCEPTIONS-LENGTH | 0     | FEET | 0.000 MILES |
| NET LENGTH        | 18570 | FEET | 3.517 MILES |

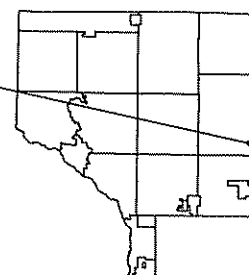


END C.P. 10-19-54  
C.S.A.H. 54 STA. 198+60

BEGIN C.P. 10-19-54  
C.S.A.H. 54 STA. 10+00



PROJECT LOCATION  
CITIES OF CENTERVILLE & COLUMBUS  
ANOKA COUNTY  
MN/DOT TRANSPORTATION DISTRICT - METRO  
SECTIONS 1, 24, 25, & 36  
TOWNSHIP 31-32 NORTH  
RANGE 22 WEST



DEFICIENT BRIDGE #90734 (WEIGHT RESTRICTION)

|                    |         |
|--------------------|---------|
| M3 -TRUCK          | 12 TONS |
| M352-TRUCK-SEMI    | 20 TONS |
| M3-3- FULL TRAILER | 20 TONS |

MINN. PROJ. NO. \_\_\_\_\_

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 PAR 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                   |
| 7-13      | GENERAL LAYOUT                          |
| 14-20     | SIGNING & STRIPING PLAN, TAB, & DETAILS |

THIS PLAN CONTAINS 20 SHEETS

Approved 3/26/10 ANOKA COUNTY ENGINEER

| 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:   
DATE: 3/26/10 LICENSE NO. 40416

DRAWN BY SRK DATE 2/17/2010  
DESIGN BY SRK DATE 2/17/2010  
CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_



ANOKA COUNTY  
HIGHWAY DEPT.

COUNTY PROJECT NO. 10-19-54

TITLE SHEET

Sheet 1 of 20 Sheets

| STATEMENT OF ESTIMATED QUANTITIES |   |          |          | 10-19-54          |
|-----------------------------------|---|----------|----------|-------------------|
| ITEM NO.                          | ITEM  | NOTE NO. | UNIT     | TOTAL EST. QUANT. |
| 2021.501                          | MOBILIZATION  |          | LUMP SUM | 1                 |
| 2104.603                          | SAWCUT BITUMINOUS PAVEMENT (FULL DEPTH)                                   |          | LIN FT   | 119               |
| 2105.609                          | TYPE C FLY ASH  | 6        | TON      | 2238              |
| 2118.501                          | AGGREGATE SURFACING CLASS 5 (DRIVEWAYS)                                   |          | TON      | 180               |
| 2123.610                          | MOTOR GRADER  | 1,8      | HOUR     | 56                |
| 2123.610                          | PNEUMATIC-TIRE ROLLER   | 1,8      | HOUR     | 56                |
| 2130.623                          | WATER   | 7        | M-GAL    | 246               |
| 2221.501                          | AGGREGATE SHOULDERING CLASS 5   |          | TON      | 1194              |
| 2232.604                          | MILL BITUMINOUS SURFACE (2") (JOINTS)                                     | 3        | SQ YD    | 342               |
| 2331.604                          | MIX RECLAIMED BITUMINOUS PAVEMENT AND FLY ASH                             |          | SQ YD    | 30213             |
| 2331.604                          | BITUMINOUS PAVEMENT RECLAMATION   |          | SQ YD    | 58348             |
| 2357.502                          | BITUMINOUS MATERIAL FOR TACK COAT   |          | GALLON   | 2933              |
| 2360.501                          | TYPE SP 12.5 WEARING COURSE ( 2" SPWB440B ) (4,B)- -MAINLINE WEAR         |          | TON      | 6732              |
| 2360.502                          | TYPE SP 12.5 NON-WEARING COURSE ( 2" SPWB440B ) (4,B)- -MAINLINE NON-WEAR |          | TON      | 6732              |
| 2360.501                          | TYPE SP 12.5 WEARING COURSE ( 2" SPWB440B ) (4,B)- -STREET APPROACHES     |          | TON      | 252               |
| 2502.501                          | 4" PRECAST CONCRETE HEADWALL  | 10       | EACH     | 4                 |
| 2502.541                          | 4" PERF PE PIPE DRAIN (WITH SOCK)   |          | LIN FT   | 2800              |
| 2540.602                          | INSTALL MAIL BOX SUPPORT  |          | EACH     | 30                |
| 2563.601                          | TRAFFIC CONTROL   | 4,9      | LUMP SUM | 1                 |
| 2581.501                          | REMOVABLE PREFORMED PLASTIC MARKING                                       | 2        | LIN FT   | 1509              |
| 2582.502                          | 4" SOLID LINE WHITE - EPOXY   | 5        | LIN FT   | 38231             |
| 2582.502                          | 4" BROKEN LINE WHITE - EPOXY  | 5        | LIN FT   | 40                |
| 2582.502                          | 4" BROKEN LINE YELLOW - EPOXY   | 5        | LIN FT   | 1390              |
| 2582.502                          | 4" SOLID LINE YELLOW - EPOXY  | 5        | LIN FT   | 4141              |
| 2582.502                          | 4" DOUBLE SOLID LINE YELLOW - EPOXY                                       | 5        | LIN FT   | 11250             |
| 2582.603                          | 24" SOLID LINE YELLOW - PREFORMED THERMOPLASTIC                           | 5        | LIN FT   | 264               |

**NOTES**

1 INCLUDES TIME TO MOVE AND COMPACT MATERIAL FOR JOINTS.

2 TO BE PLACED PRIOR TO LEAVING SITE AT END OF PAVING DAY.

3 MILL JOINT LOCATIONS & MILL AREAS ARE TO BE FIELD VARIFIED BY ON-SITE INSPECTOR.

4 ALL TRAFFIC CONTROL METHODS SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MMURCD).

5 STRIPING & PRE-FORM THERMOPLASTIC TO BE INPLACE WITHIN 72 HOURS OF FINAL MAINLINE PAVING.

6 FLY ASH STABILIZATION FROM STA 99+50 - 198+60.

7 WATER ADDED TO FLY ASH DURING BITUMINOUS RECLAMATION (BETWEEN STA 99+50 - 198+60) CONSIDERED INCIDENTAL TO PROJECT.

8 ADDITIONAL HOURS CALCULATED FOR MOTOR GRADER AND ROLLER IN FLY ASH STABILIZATION SECTION OF PROJECT.

9 DO NOT PASS, PASS WITH CARE, NO CENTER STRIPE, AND BUMP/BUMP AHEAD SIGNS TO BE INPLACE DURING RECLAMATION OPERATIONS.

10 TO BE CONNECTED WITH 4" PERF PE PIPE DRAIN AT LOW POINT IN ROAD WAY, PER ENGINEERS DIRECTION

**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 ( 2" SPWB440B ) (4,B)- -MAINLINE WEAR & NON-WEAR 115 LBS/SQ YD/IN THICKNESS

2581.501 REMOVABLE PREFORMED PLASTIC MARKING 4' AT 50' INTERVALS FOR SKIPS

| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
|    |      |    |     |      |          |

NAME: P:\10-01-00\CSAH\_54 (80th-Lake Drive)\PLAN12 Seq.dgn 3/23/2010 10:46:39 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: 3/26/10 LICENSE NO. 40416

DRAWN BY: SRK DATE: 2/17/2010

DESIGN BY: SRK DATE: 2/17/2010

CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



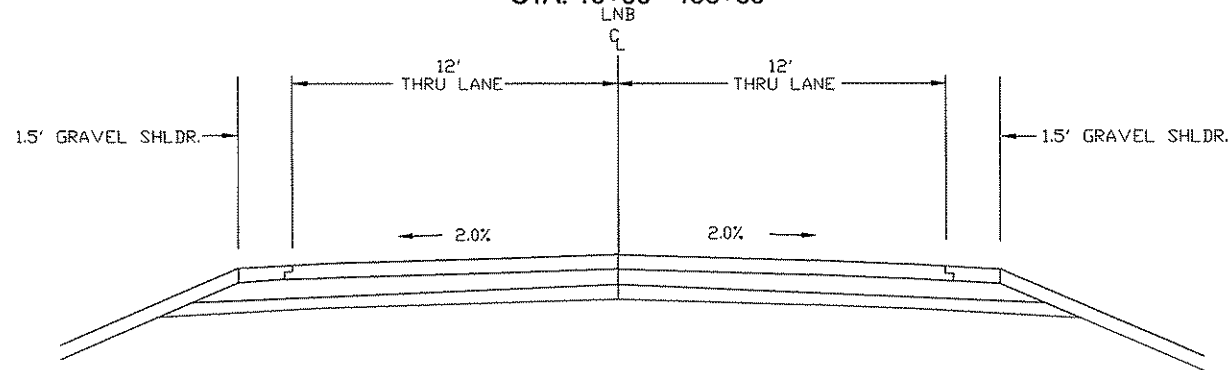
**ANOKA COUNTY**  
**HIGHWAY DEPT.**

COUNTY PROJECT NO. 10-19-54

STATEMENT OF ESTIMATED QUANTITIES  
STA 10+00 TO 198+60  
Sheet 2 of 20 Sheets

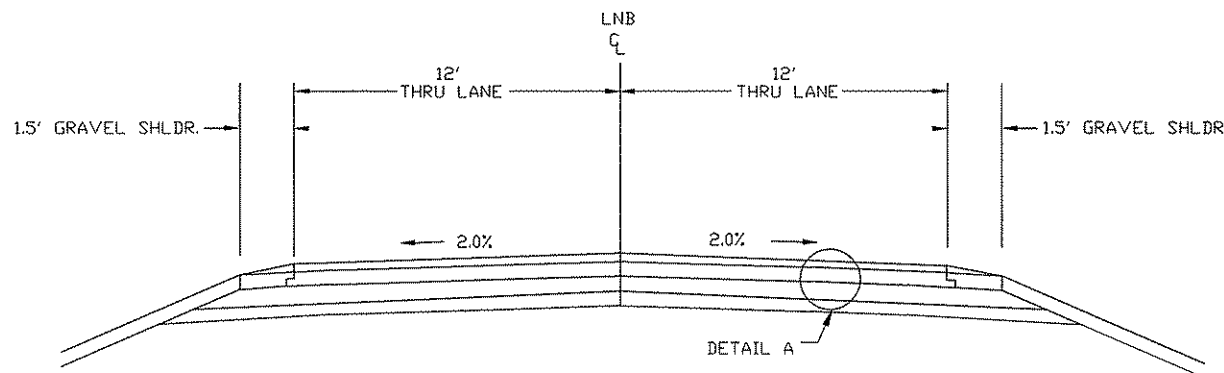
EXISTING TYPICAL SECTION

STA. 10+00 - 198+60



PROPOSED TYPICAL SECTION

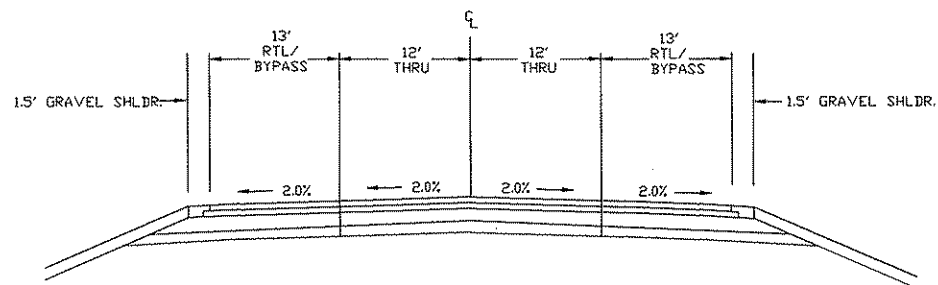
STA. 10+00 - 99+50



EXISTING TYPICAL SECTION

STA 79+00 - 95+50

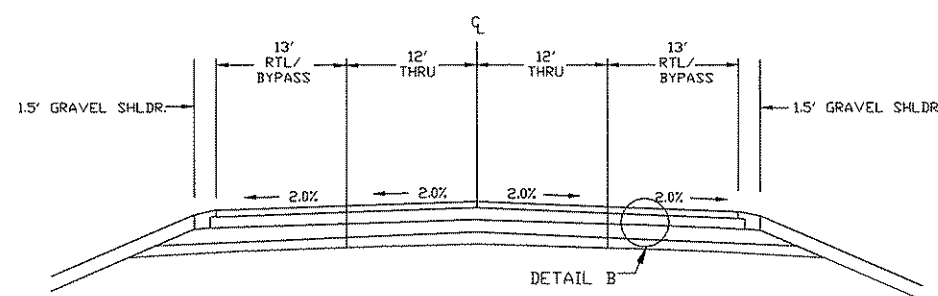
STA 140+25 - 150+00



PROPOSED TYPICAL SECTION

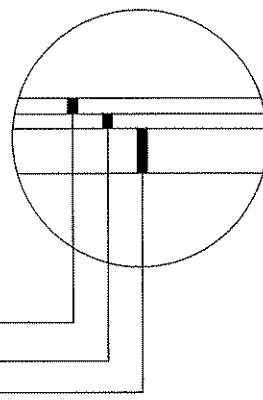
STA 79+00 - 95+50

STA 140+25 - 150+00



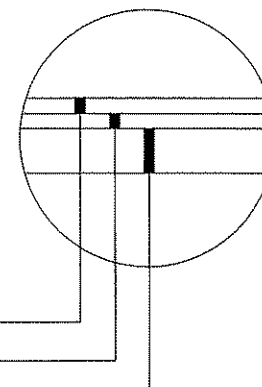
DETAIL A  
PROPOSED MAINLINE

- 2" TYPE SP 12.5 WEARING COURSE (SPWEB440B) (4,B)
- 2" TYPE SP 12.5 NON-WEARING COURSE (SPNWB440B) (4,B)
- RECLAIM INPLACE BITUMINOUS



DETAIL B  
PROPOSED RTL/BYPASS

- 2" TYPE SP 12.5 WEARING COURSE (SPWEB440B) (4,B)
- 2" TYPE SP 12.5 NON-WEARING COURSE (SPNWB440B) (4,B)
- RECLAIM INPLACE BITUMINOUS



| NO | DATE | BY | CKD | APPR | REVISION |
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|    |      |    |     |      |          |
|    |      |    |     |      |          |

NAME: P:110-01-00CSAH\_54\_(80th-Lakedrive)PLAN:OVERLAY TEMPLT TYP DETAILS 2/16/2010 2:33:46 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 Carlenhead

SIGNATURE: *Charles Carlenhead*

DATE: 2/26/10 LICENSE NO. 40416

DRAWN BY: SRK DATE: 2/17/2010

DESIGN BY: SRK DATE: 2/17/2010

CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



ANOKA COUNTY  
HIGHWAY DEPT.

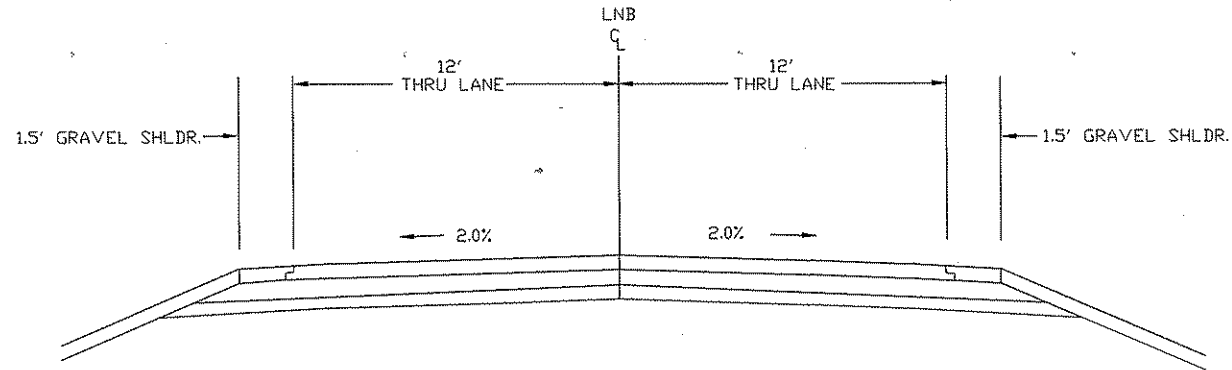
COUNTY PROJECT NO. 10-19-54

TYPICAL SECTIONS

Sheet 3 of 20 Sheets

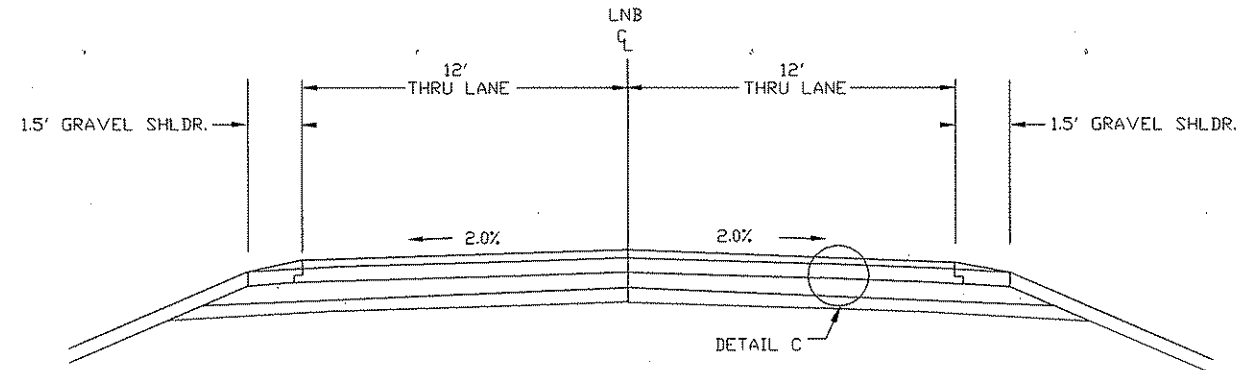
EXISTING TYPICAL SECTION

STA. 99+50 - 198+60



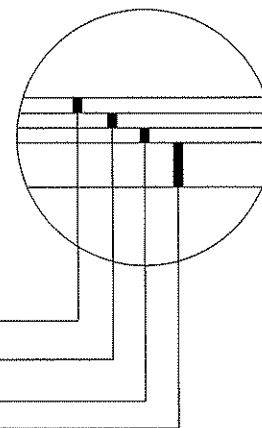
PROPOSED TYPICAL SECTION

STA. 99+50 - 198+60



DETAIL C  
PROPOSED MAINLINE  
W/ FLY ASH

- 2" TYPE SP 12.5 WEARING COURSE (SPWEB440B) (4,B)
- 2" TYPE SP 12.5 NON-WEARING COURSE (SPNWB440B) (4,B)
- 8" FLY ASH (SPEC. 2331.609)
- RECLAIM INPLACE BITUMINOUS



| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
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NAME: p:\10-01-00\csah\_54\_(80th-lakedrive)\plan\OVERLAY TEMPLET TYP DETAILS.dgn 3/2/2010 8:02:23 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: 3/22/10 LICENSE NO. 40416

DRAWN BY: SRK DATE: 2/17/2010  
 DESIGN BY: SRK DATE: 2/17/2010  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

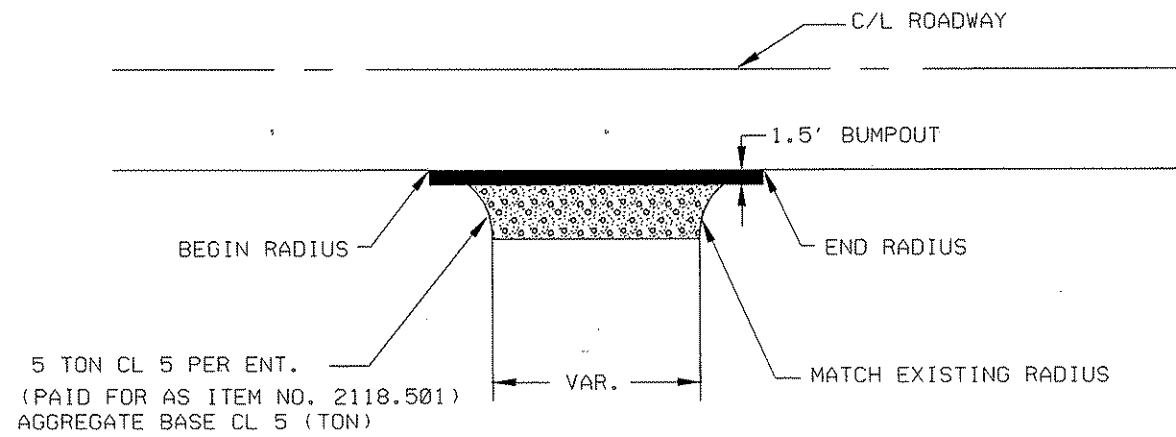


ANOKA COUNTY  
HIGHWAY DEPT.

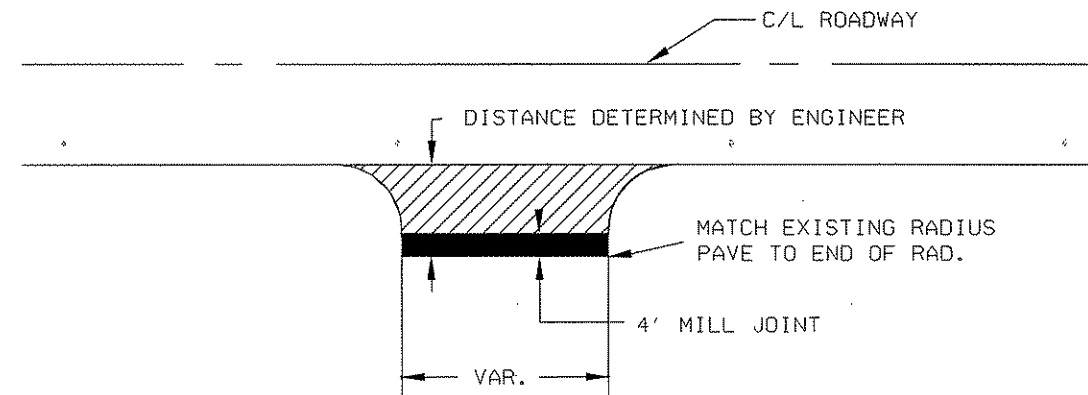
COUNTY PROJECT NO. 10-19-54

TYPICAL SECTIONS  
Sheet 4 of 20 Sheets

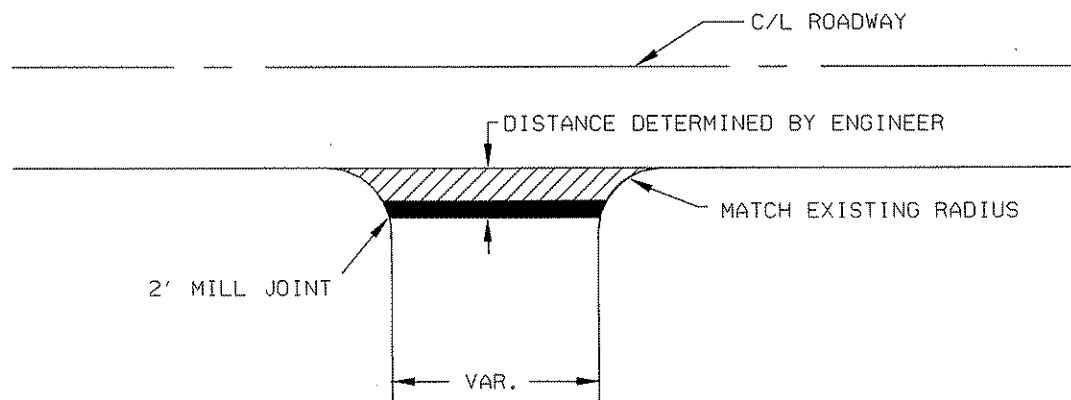
GRAVEL DRIVEWAYS & FIELD ENTRANCES



PAVED STREET APPROACHES

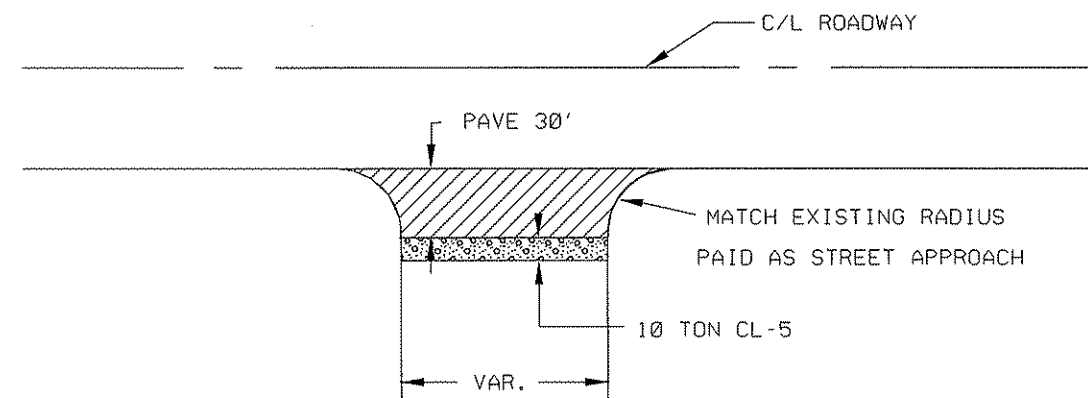


BIT. DRIVEWAYS



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

UN-PAVED STREET APPROACHES



| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
|    |      |    |     |      |          |
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NAME: p:\10-01-00\csah\_54 (80th-lake-drive)\plan\OVERLAY TEMPLET TYP DETAILS.dgn 3/2/2010 8:02:22 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: 3/26/10 LICENSE NO. 40418

DRAWN BY SRK DATE 2/17/2010  
 DESIGN BY SRK DATE 2/17/2010  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_

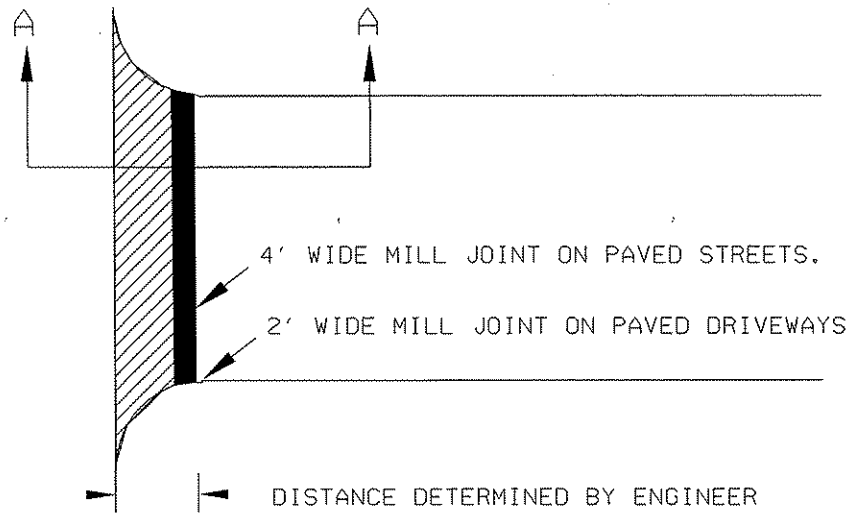


ANOKA COUNTY  
 HIGHWAY DEPT.

COUNTY PROJECT NO. 10-19-54

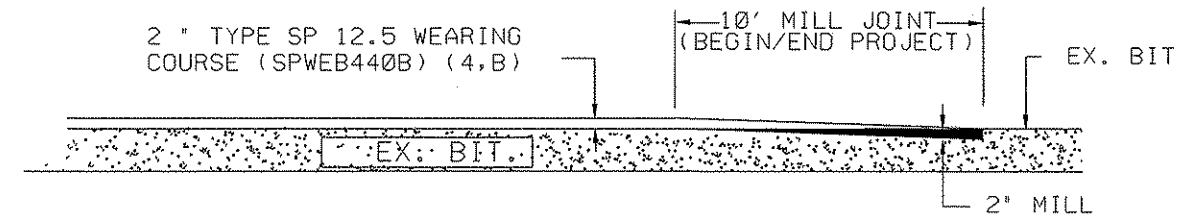
MISC. DETAILS  
 Sheet 5 of 20 Sheets

PAVED DRIVEWAYS / PAVED STREETS  
JOINT DETAILS

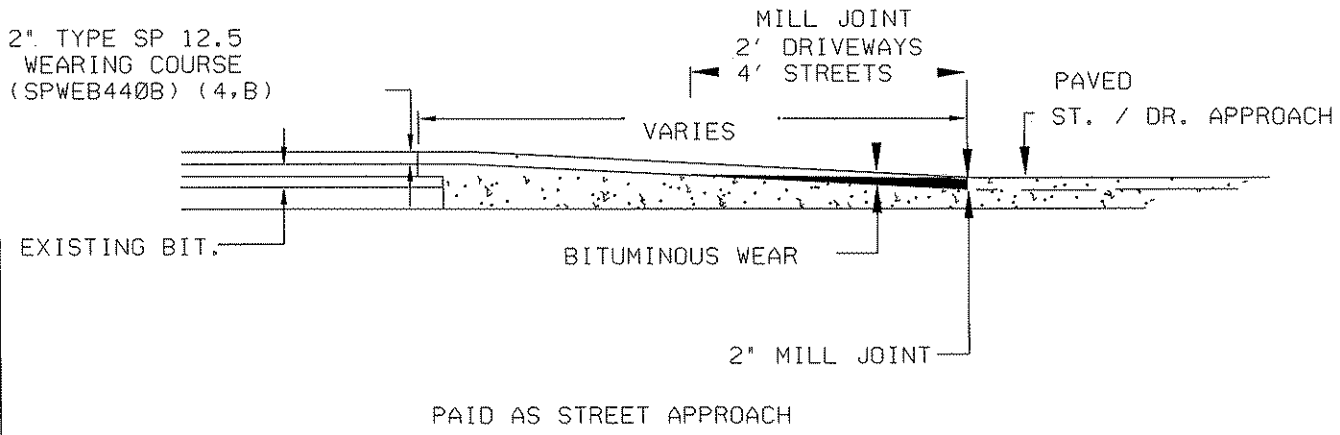


DRIVEWAYS BUMPED OUT AND PAVED WITH MAINLINE, PAID AS MAINLINE.  
DRIVEWAYS PAVED IN DIFFERENT OPERATION FROM MAIN LINE PAVING PAID AS ST./DR. APPROACH.  
STREETS PAID AS ST./DR. APPROACH.

10' MILL DETAIL @ STA 10+00 & 198+19



JOINT DETAILS A - A



| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
|    |      |    |     |      |          |
|    |      |    |     |      |          |

NAME: p:\10-01-00\csah\_54\_(80th-lake-drive)\plan\OVERLAY TEMPLET TYP DETAILS.dgn 3/2/2010 8:02:23 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: 3/26/10 LICENSE NO. 40416

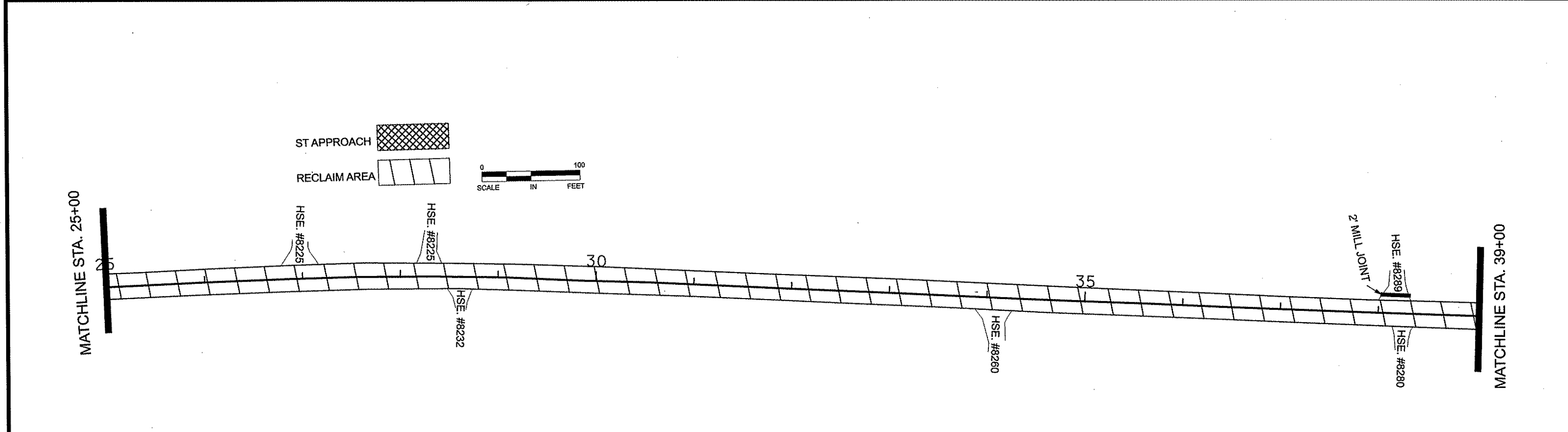
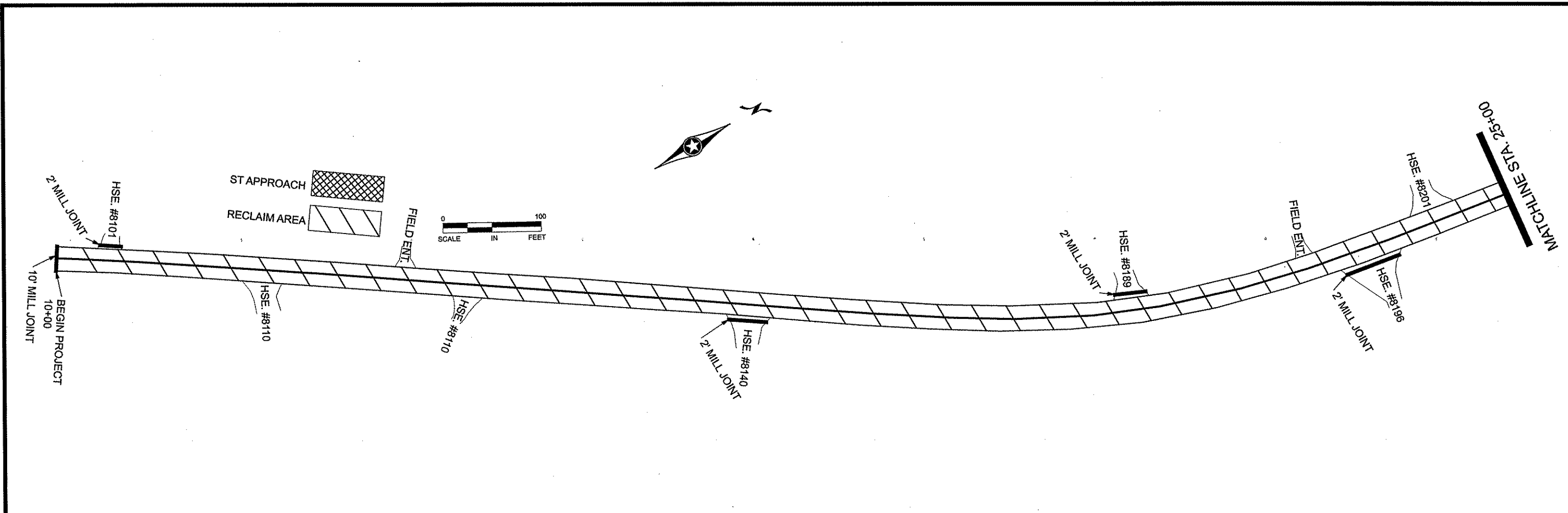
DRAWN BY SRK DATE 2/17/2010  
DESIGN BY SRK DATE 2/17/2010  
CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_



ANOKA COUNTY  
HIGHWAY DEPT.

COUNTY PROJECT NO. 10-19-54

MISC. DETAILS  
Sheet 6 of 20 Sheets



| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
|    |      |    |     |      |          |
|    |      |    |     |      |          |
|    |      |    |     |      |          |


NAME: p:\10-01-00\csah\_54\_(80th-lake-drive)\plan\Overlay templet plan.dgn 3/2/2010 8:09:52 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: 3/2/10 LICENSE NO. 40416

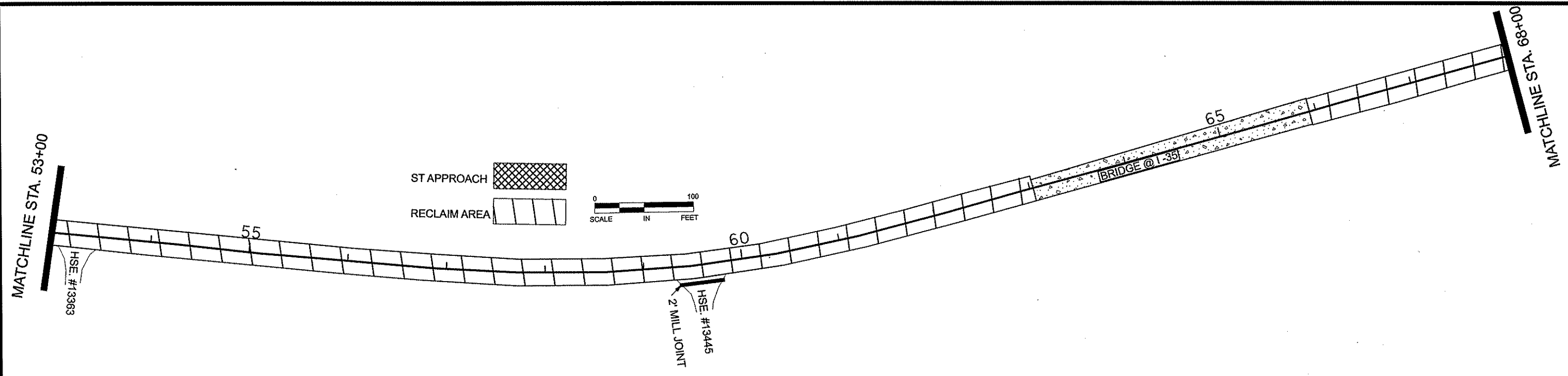
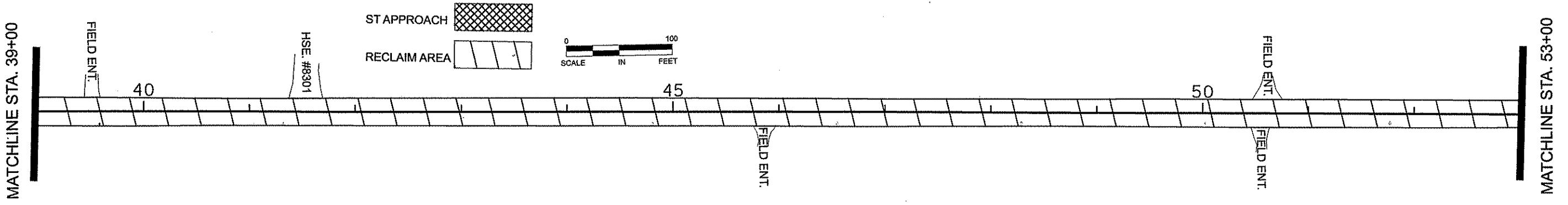
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 DESIGN BY: SRK DATE: 2/17/2010  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**ANOKA COUNTY**  
**HIGHWAY DEPT.**



COUNTY PROJECT NO. 10-19-54

PLAN  
 STA 10+00 TO 39+00  
 Sheet 7 of 20 Sheets



| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
|    |      |    |     |      |          |
|    |      |    |     |      |          |

NAME: p:\10-01-00\csah\_54\_(80th-lakedrive)\plant\Overlay templot plan.dgn 3/2/2010 8:09:53 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.

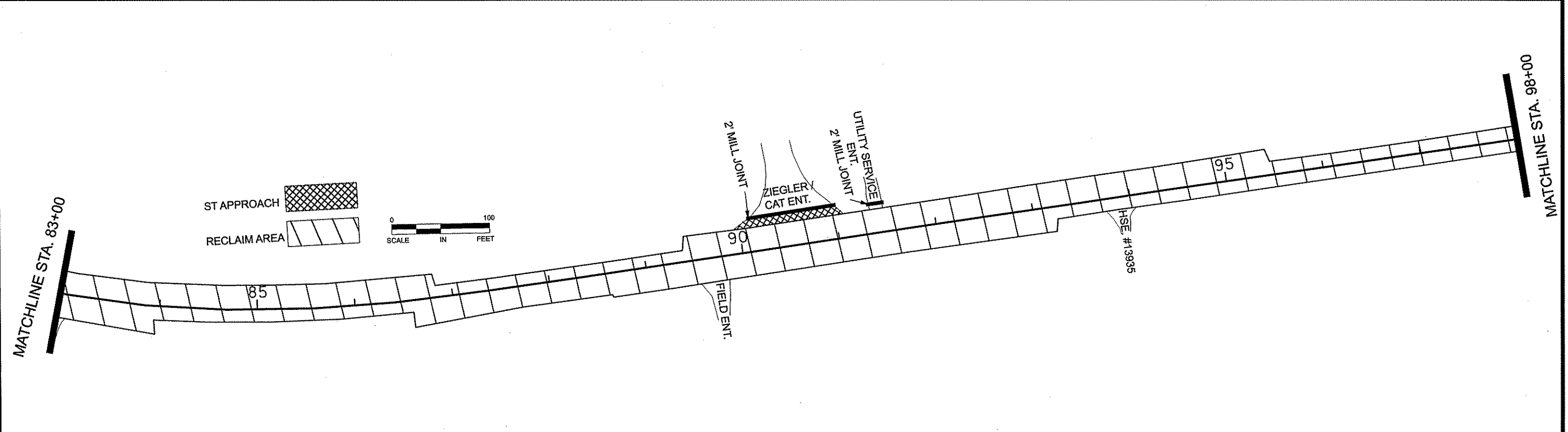
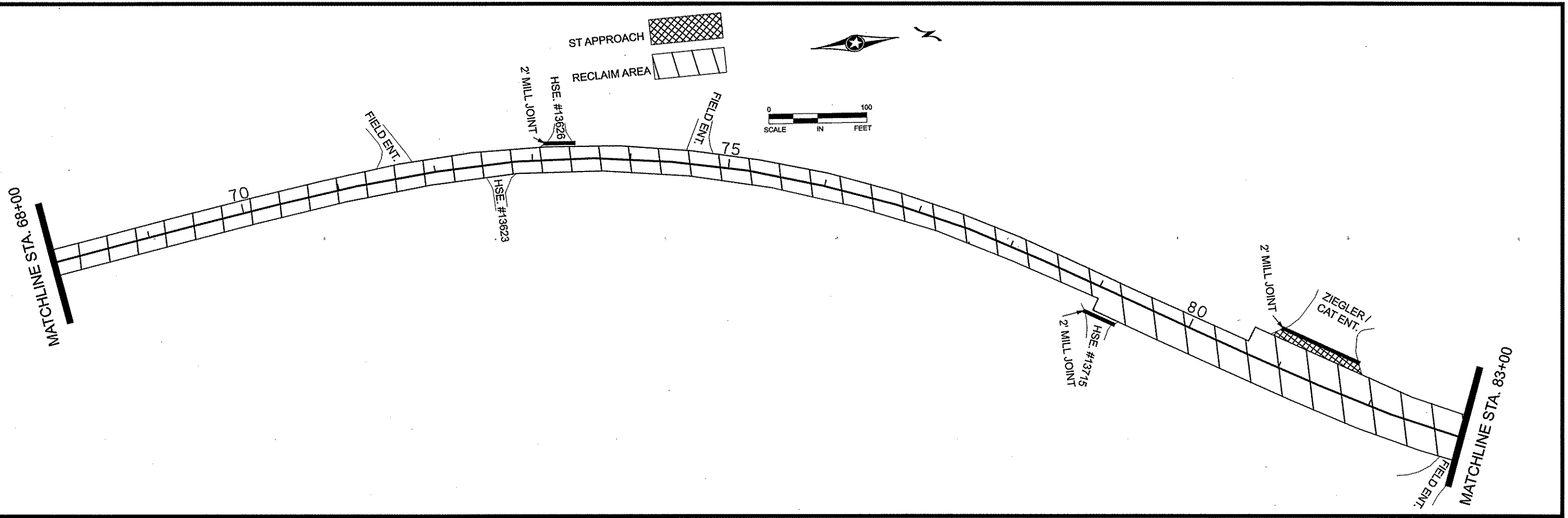
PRINT NAME: Charles Cadenhead  
 SIGNATURE: *Charles Cadenhead*  
 DATE: 3/2/10 LICENSE NO. 46416

DRAWN BY: SRK DATE: 2/17/2010  
 DESIGN BY: SRK DATE: 2/17/2010  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

COUNTY PROJECT NO. 10-19-54

PLAN  
 STA 39+00 TO 68+00  
 Sheet 8 of 20 Sheets





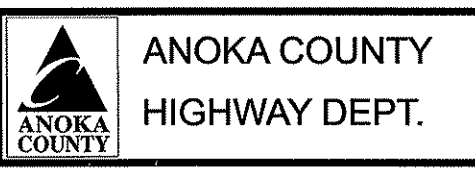
| NO | DATE | BY | CHKD | APPR | REVISION |
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NAME: p:\10-01-00\csah\_54\_(80th-hakodrive)\plan\Overlay\template\plan.dgn 3/2/2010 8:09:54 AM

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.

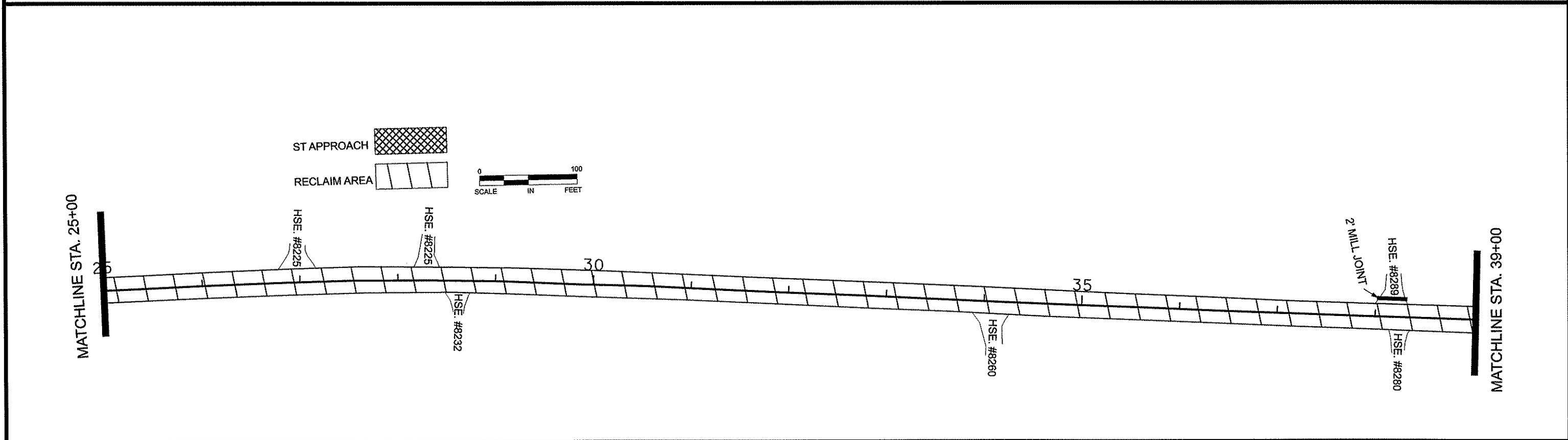
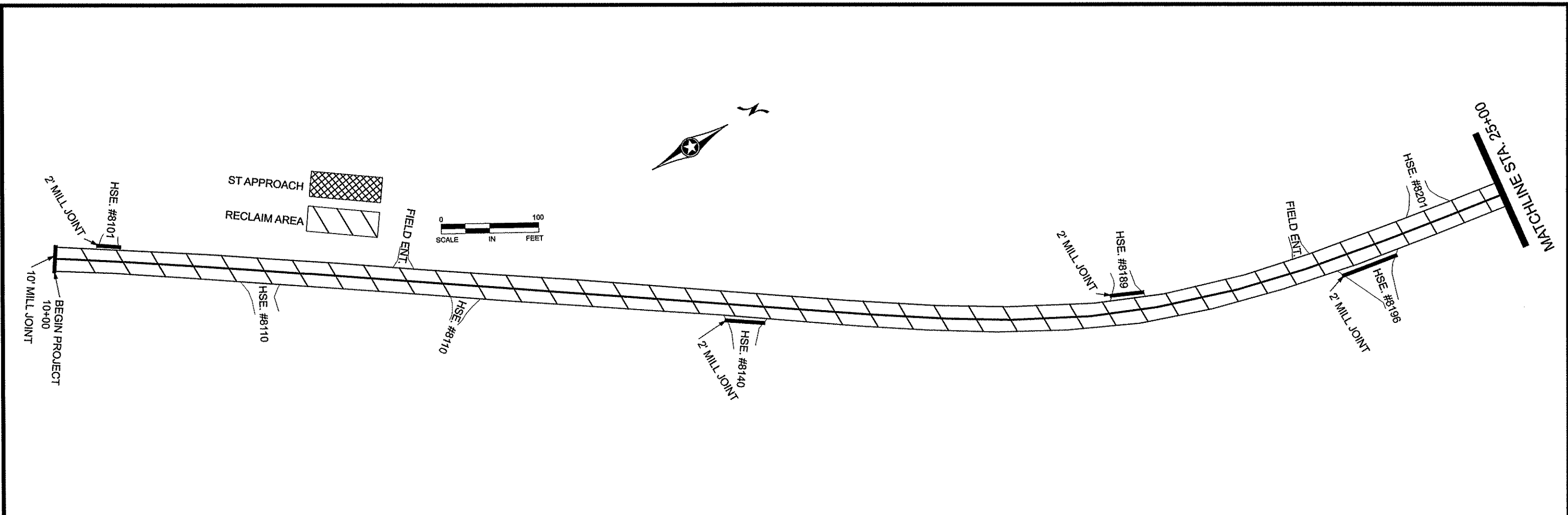
PRINT NAME: Charles Cadogan  
 SIGNATURE: *Charles Cadogan*  
 DATE: 2/17/10 LICENSE NO. 40316

DRAWN BY: SRK DATE: 2/17/2010  
 DESIGN BY: SRK DATE: 2/17/2010  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



COUNTY PROJECT NO. 10-19-54

PLAN  
 STA 68+00 TO 98+00  
 Sheet 9 of 20 Sheets



| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
|    |      |    |     |      |          |
|    |      |    |     |      |          |

NAME: P:\10-01-00\CSAH\_54\_(80th-LakeDrive)\PLAN\Overlay templet plan.dgn 3/26/2010 2:26:46 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.

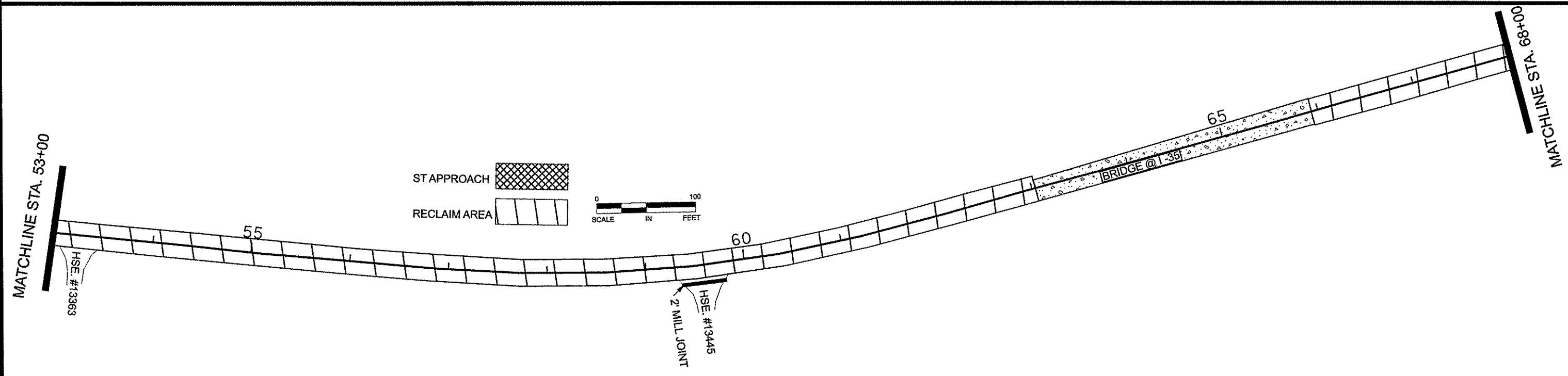
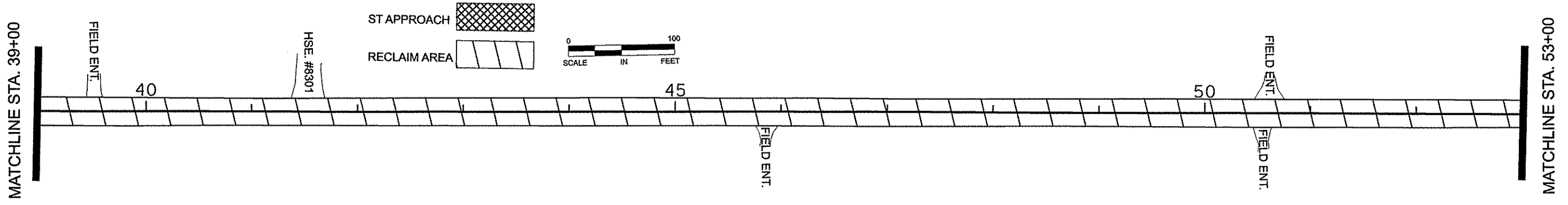
PRINT NAME: Charles Cadenhead  
 SIGNATURE: *Charles Cadenhead*  
 DATE: 3/26/10 LICENSE NO. 40416

DRAWN BY: SRK DATE: 2/17/2010  
 DESIGN BY: SRK DATE: 2/17/2010  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**ANOKA COUNTY**  
**HIGHWAY DEPT.**

COUNTY PROJECT NO. 10-19-54

PLAN  
 STA 10+00 TO 39+00  
 Sheet 7 of 20 Sheets



| NO   | DATE | BY | CHKD | APPR | REVISION  |            |
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|  |      |    |      |      |           |            |
| NAME: P:\10-01-00\CSAH_54_(80th-LakeDrive)\PLAN\Overlay templet plan.dgn |      |    |      |      | 3/26/2010 | 2:27:47 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.

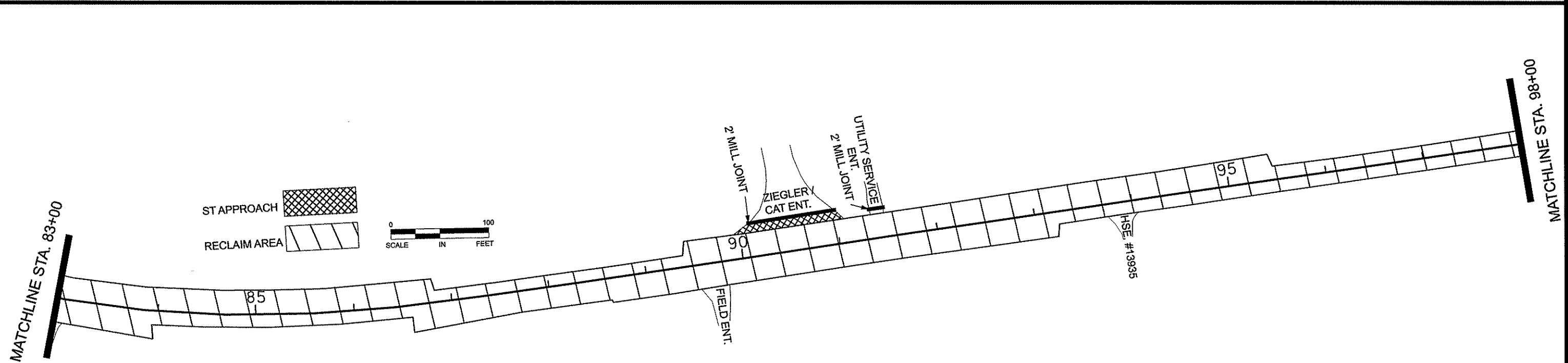
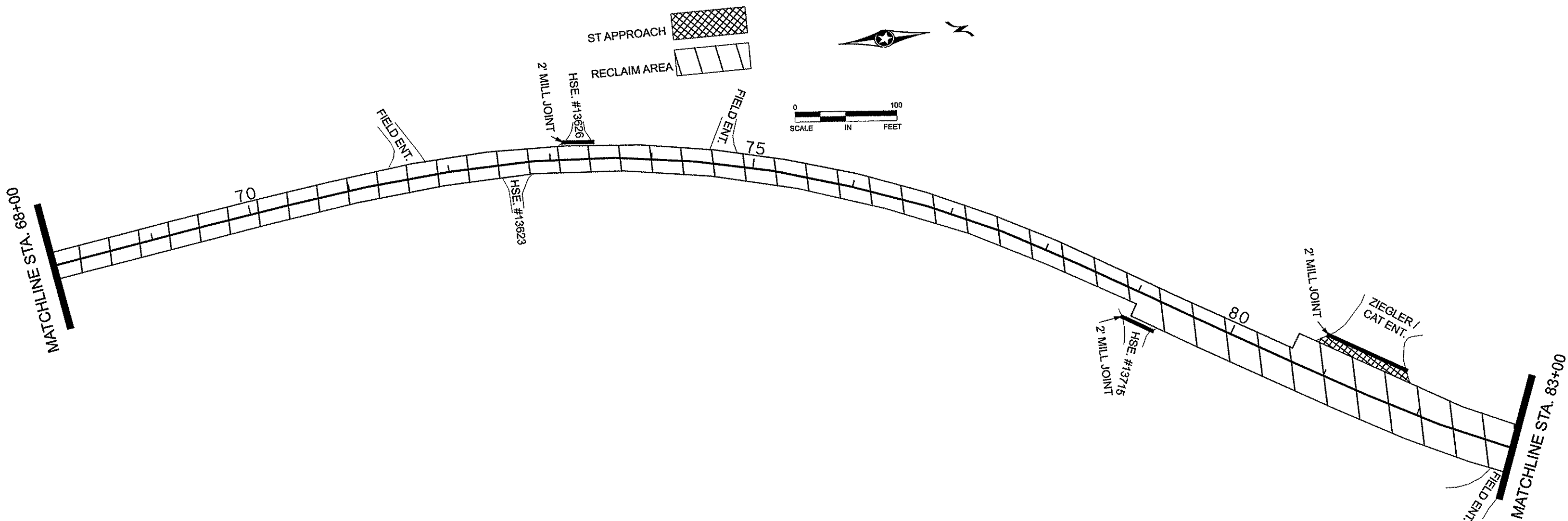
PRINT NAME: Charles Cadenhead  
 SIGNATURE: *Charles Cadenhead*  
 DATE: 3/26/10 LICENSE NO. 40416

DRAWN BY: SRK DATE: 2/17/2010  
 DESIGN BY: SRK DATE: 2/17/2010  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**ANOKA COUNTY**  
**HIGHWAY DEPT.**

COUNTY PROJECT NO. 10-19-54

PLAN  
 STA 39+00 TO 68+00  
 Sheet 8 of 20 Sheets



| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
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|    |      |    |     |      |          |
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NAME: P:\10-01-00\CSAH\_54\_(80th-LakeDrive)\PLAN\Overlay templet plan.dgn 3/26/10 2:28:20 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.

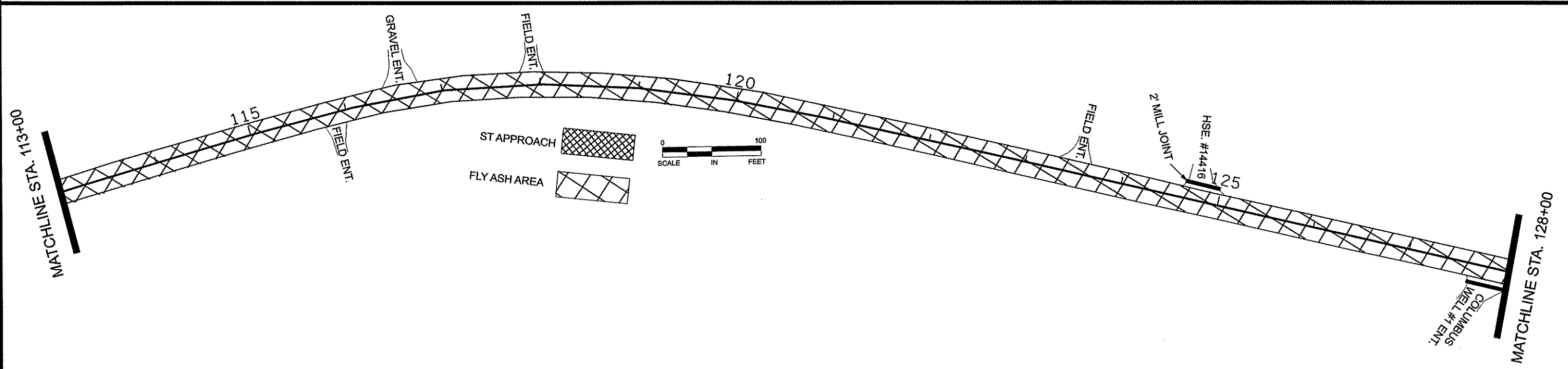
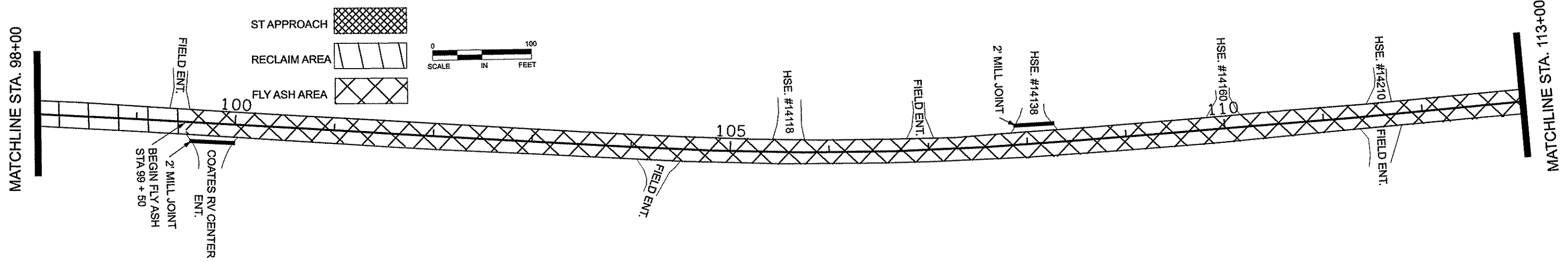
PRINT NAME: Charles Cadenhead  
 SIGNATURE: *Charles Cadenhead*  
 DATE: 3/26/10 LICENSE NO. 40416

DRAWN BY: SRK DATE: 2/17/2010  
 DESIGN BY: SRK DATE: 2/17/2010  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**ANOKA COUNTY**  
**HIGHWAY DEPT.**

COUNTY PROJECT NO. 10-19-54

PLAN  
 STA 68+00 TO 98+00  
 Sheet 9 of 20 Sheets



| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
|    |      |    |     |      |          |
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NAME: P:\10-01-00\CSAH\_54\_(80th-Lakedrive)\PLAN\Overlay templet plan.dgn      3/26/2010      2:28:50 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: 3/26/10      LICENSE NO. 40476

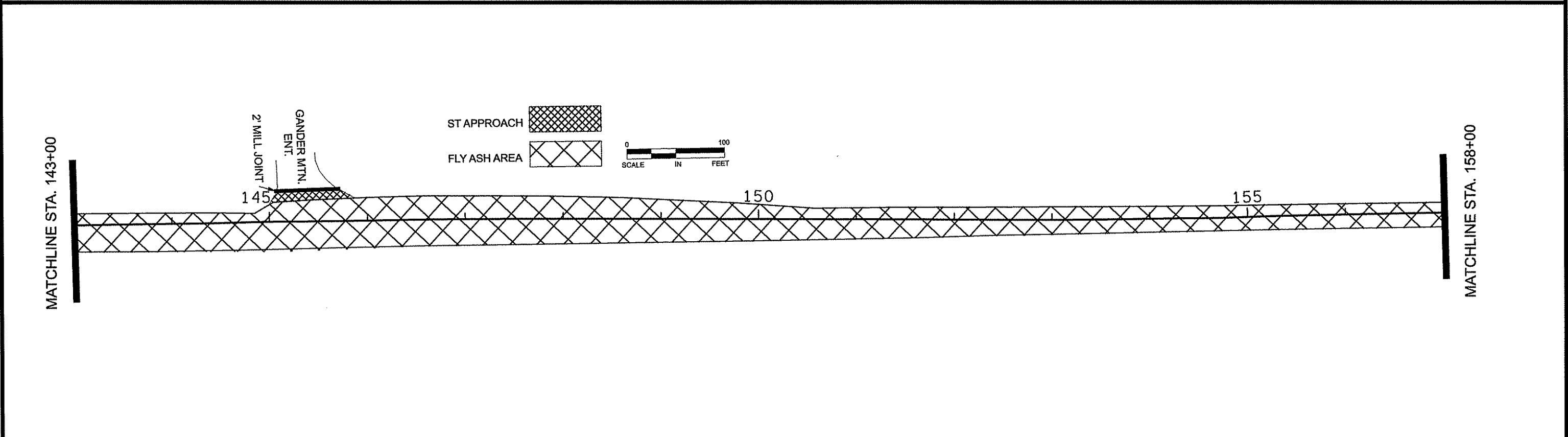
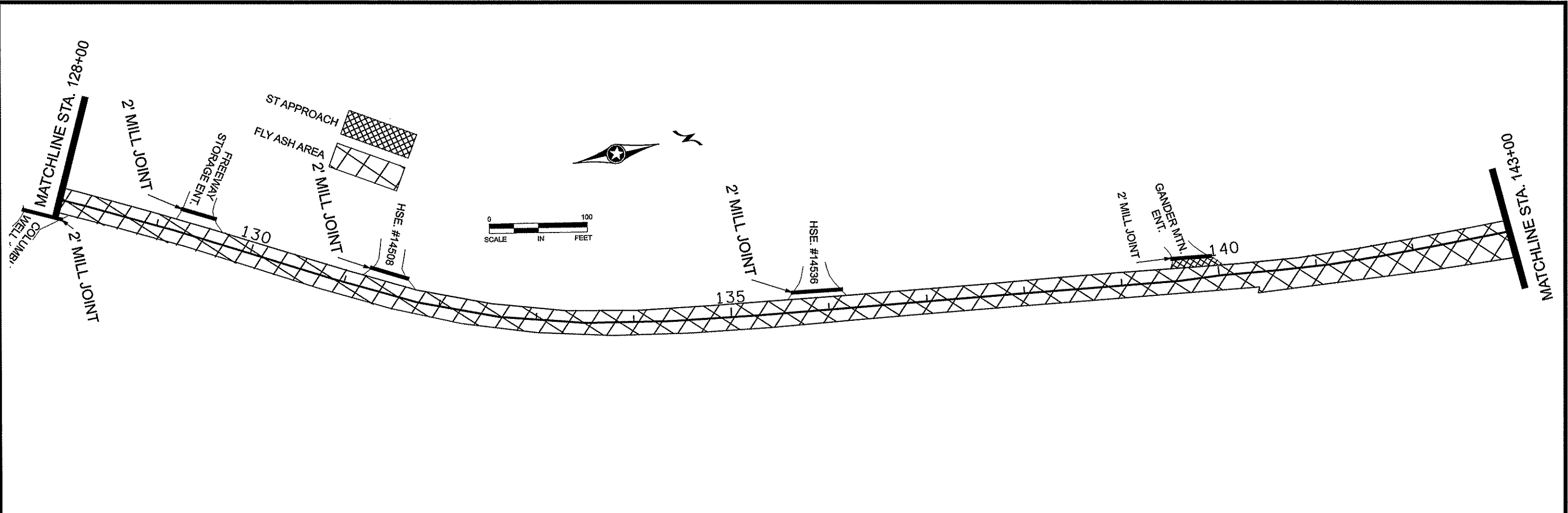
DRAWN BY: SRK      DATE: 2/17/2010  
 DESIGN BY: SRK      DATE: 2/17/2010  
 CHECKED BY:      DATE:     



**ANOKA COUNTY**  
**HIGHWAY DEPT.**

COUNTY PROJECT NO. 10-19-54

PLAN  
 STA 98+00 TO 128+00  
 Sheet 10 of 20 Sheets



| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
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NAME: P:\10-01-00\CSAH\_54\_(80th-Lake Drive)\PLAN\Overlay templet plan.dgn 3/26/2010 2:32:33 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: 3/26/10 LICENSE NO. 40416

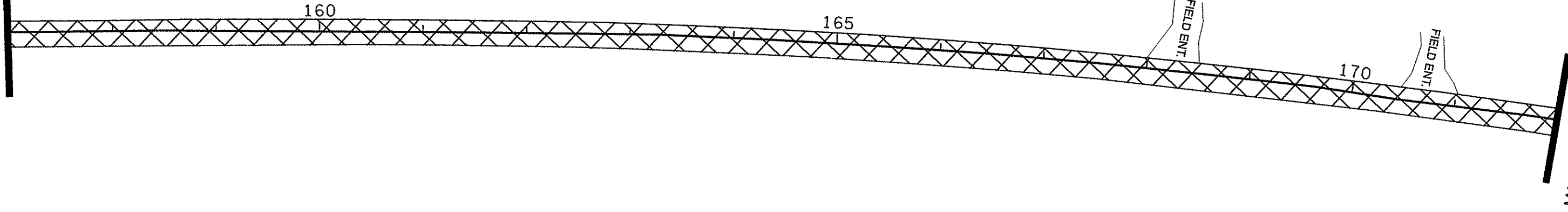
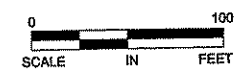
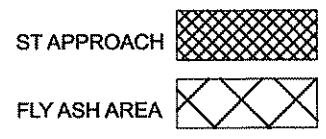
DRAWN BY: SRK DATE: 2/17/2010  
 DESIGN BY: SRK DATE: 2/17/2010  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**ANOKA COUNTY**  
**HIGHWAY DEPT.**

COUNTY PROJECT NO. 10-19-54

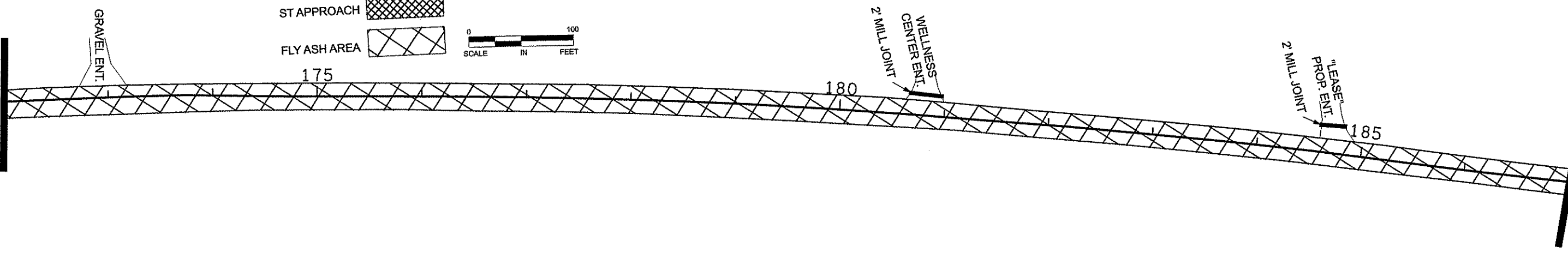
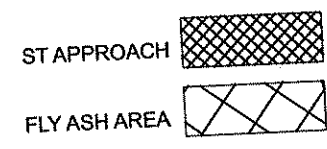
PLAN  
 STA 128+00 TO 157+00  
 Sheet 11 of 20 Sheets

MATCHLINE STA. 158+00



MATCHLINE STA. 172+00

MATCHLINE STA. 172+00



MATCHLINE STA. 187+00

| NO | DATE | BY | CHKD | APPR | REVISION |
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NAME: P:\10-01-00\CSAH\_54\_(80th-Lake Drive)\PLAN\Overlay\template\plan.dgn 3/28/2010 2:30:38 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: 3/26/10 LICENSE NO. 40416

DRAWN BY: SRK DATE: 2/17/2010

DESIGN BY: SRK DATE: 2/17/2010

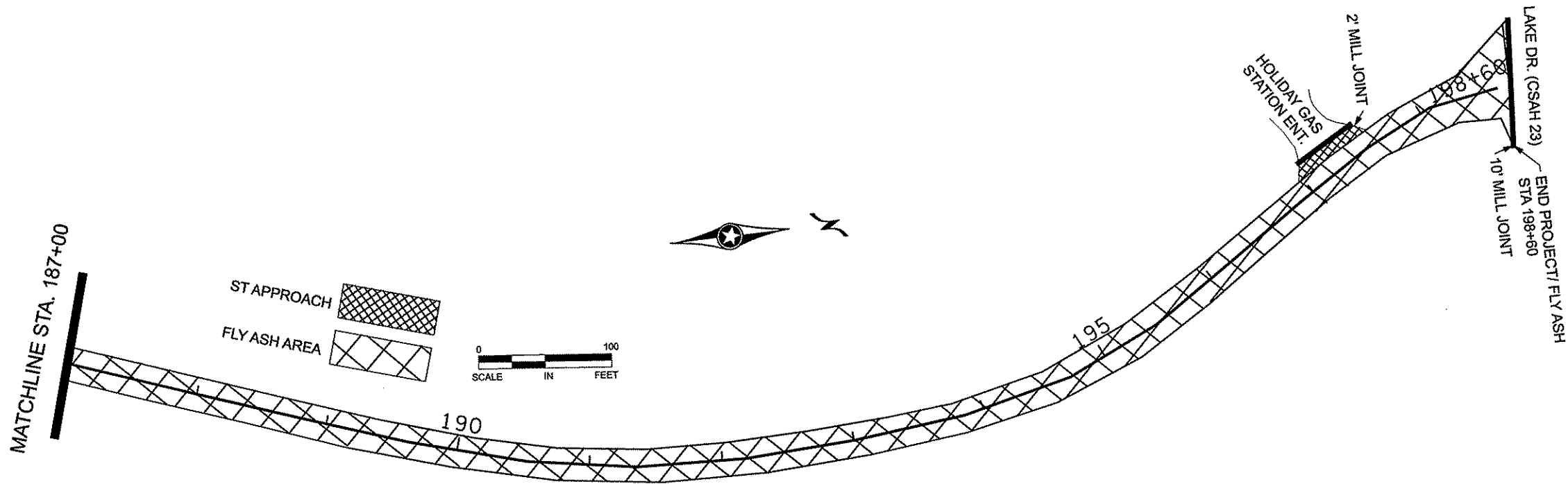
CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



ANOKA COUNTY  
HIGHWAY DEPT.

COUNTY PROJECT NO. 10-19-54

PLAN  
STA 157+00 TO 187+00  
Sheet 12 of 20 Sheets



| NO | DATE | BY | CHKD | APPR | REVISION |
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NAME: P:\10-01-00\CSAH\_54\_(60th-Lake Drive)\PLAN\Overlay templet plan.dgn      3/26/10      2:31:06 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: 3/26/10      LICENSE NO. 40416

DRAWN BY: SRK      DATE: 2/17/2010  
 DESIGN BY: SRK      DATE: 2/17/2010  
 CHECKED BY: \_\_\_\_\_      DATE: \_\_\_\_\_

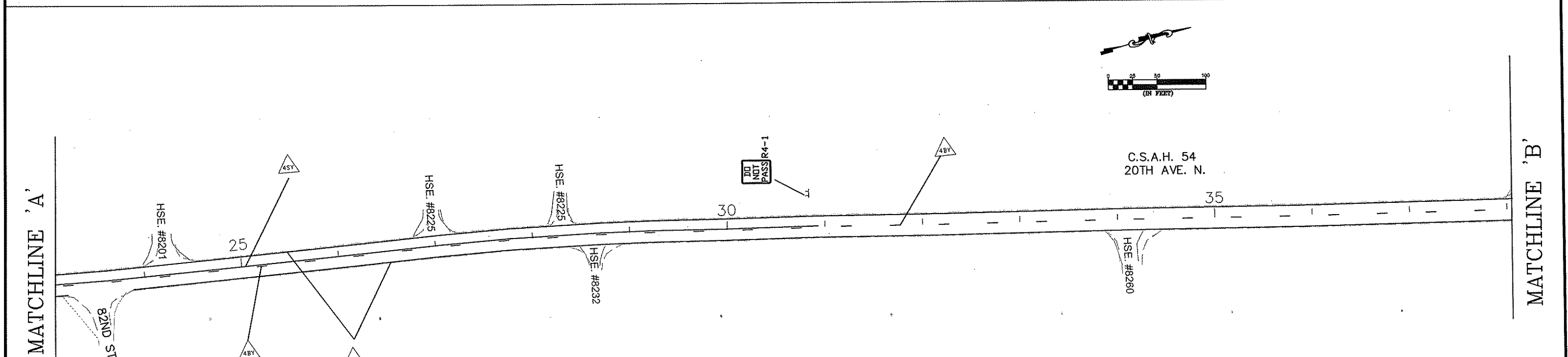
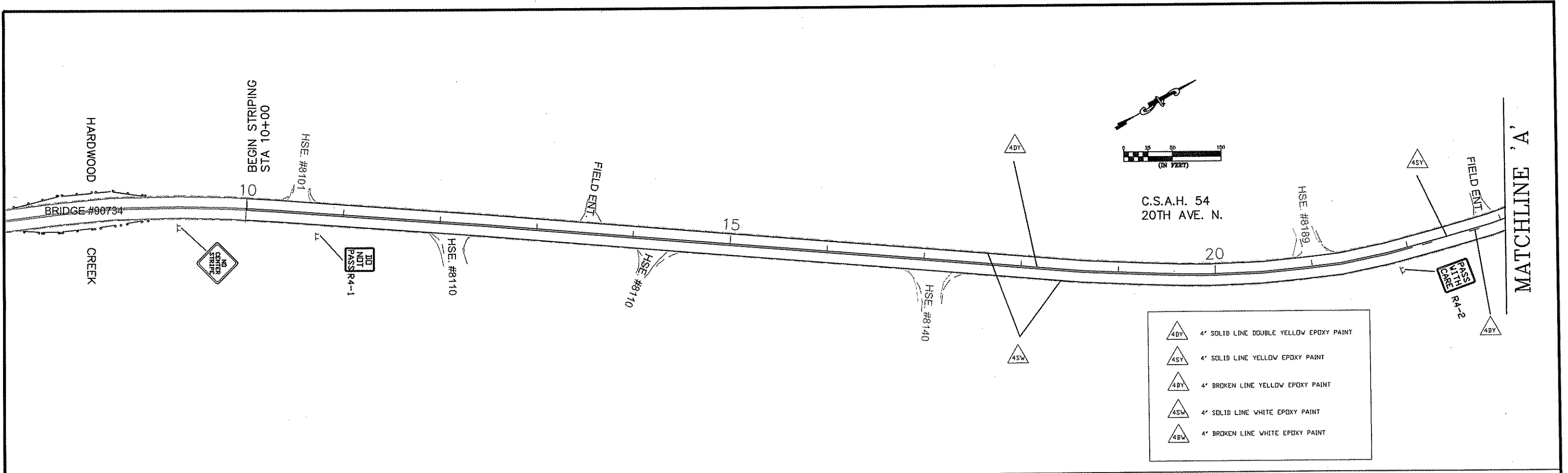


**ANOKA COUNTY  
 HIGHWAY DEPT.**

COUNTY PROJECT NO. 10-19-54

PLAN  
 STA 187+00 TO 198+60  
 Sheet 13 of 20 Sheets





- NOTES:
1. LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS ARE DETERMINED IN THE FIELD BY THE ENGINEER.
  2. CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. THE TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.
  3. ALL PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.

| NO | DATE | BY | CKD | APPR | REVISION |
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|    |      |    |     |      |          |

NAME: T:\Traffic\dwg\CSAH 54 (20th Av. Freeway Dr)\from Ash St\_to\_csh23.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 Egehead*

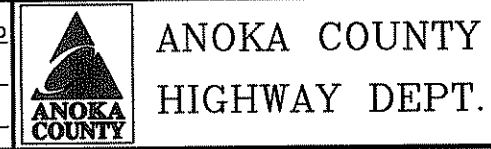
SIGNATURE: *Charles Egehead*

DATE: *3/26/10* REG. NO. *40416*

DRAWN BY: MTH DATE: 2/23/10

DESIGN BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



STATE PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

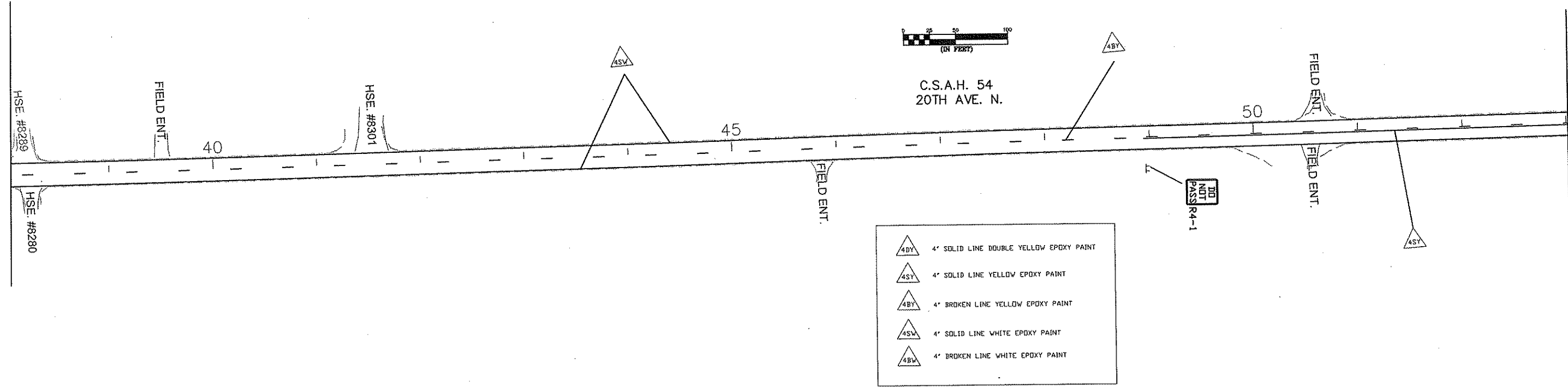
COUNTY PROJECT NO. 10-19-54

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

Sheet 14 of 20 Sheets

MATCHLINE 'B'

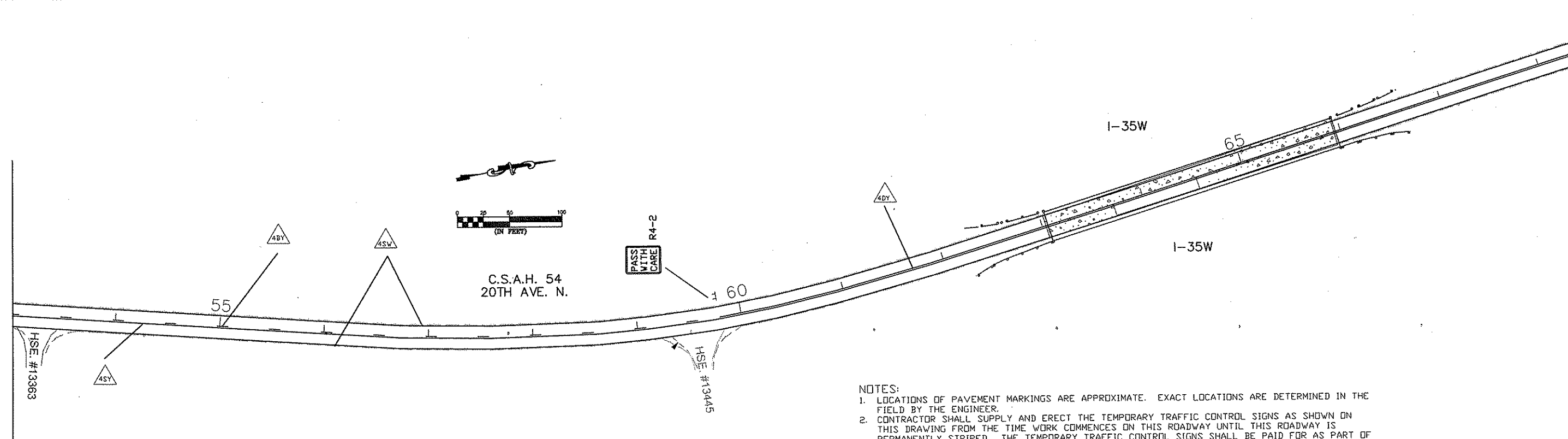
MATCHLINE 'C'



|  |   |
|--|---|
|  | 4' SOLID LINE DOUBLE YELLOW EPOXY PAINT |
|  | 4' SOLID LINE YELLOW EPOXY PAINT        |
|  | 4' BROKEN LINE YELLOW EPOXY PAINT       |
|  | 4' SOLID LINE WHITE EPOXY PAINT         |
|  | 4' BROKEN LINE WHITE EPOXY PAINT        |

MATCHLINE 'C'

MATCHLINE 'D'



- NOTES:
1. LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS ARE DETERMINED IN THE FIELD BY THE ENGINEER.
  2. CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. THE TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.
  3. ALL PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.

| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
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NAME: T:\Traffic\dwg\CSAH 54 (20th Av. Freeway Dr)\from Ash St\_to\_csh23.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 Lundberg*

SIGNATURE: *Charles Lundberg*

DATE: *3/26/10* REG. NO. *40446*

DRAWN BY: MTH DATE: *2/23/10*

DESIGN BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

**ANOKA COUNTY**  
**HIGHWAY DEPT.**

STATE PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

COUNTY PROJECT NO. *10-19-54*

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

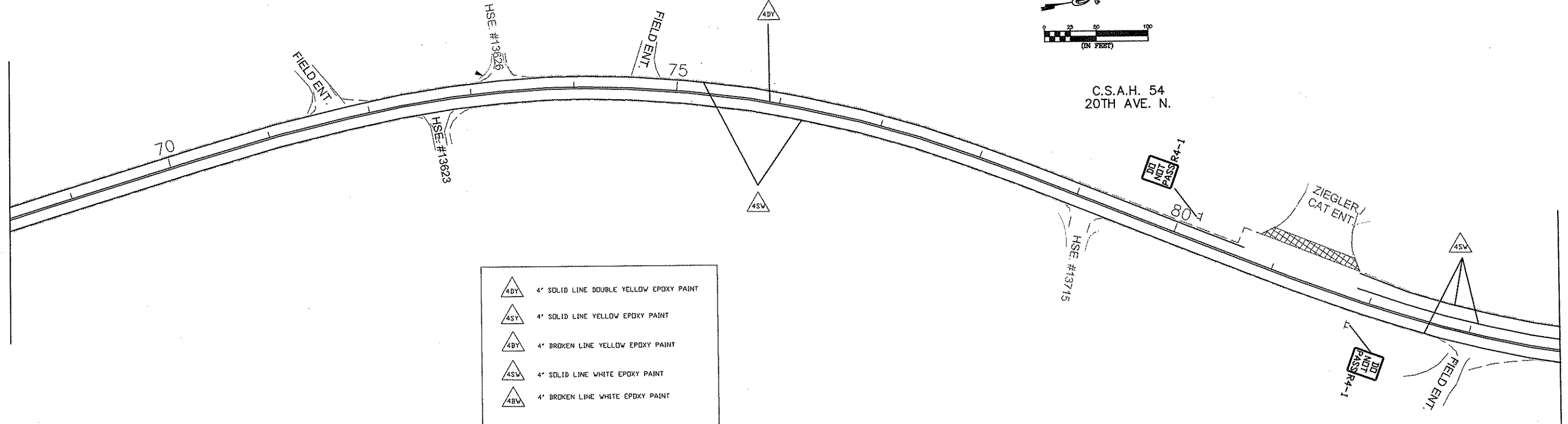
Sheet *15* of *20* Sheets

MATCHLINE 'D'

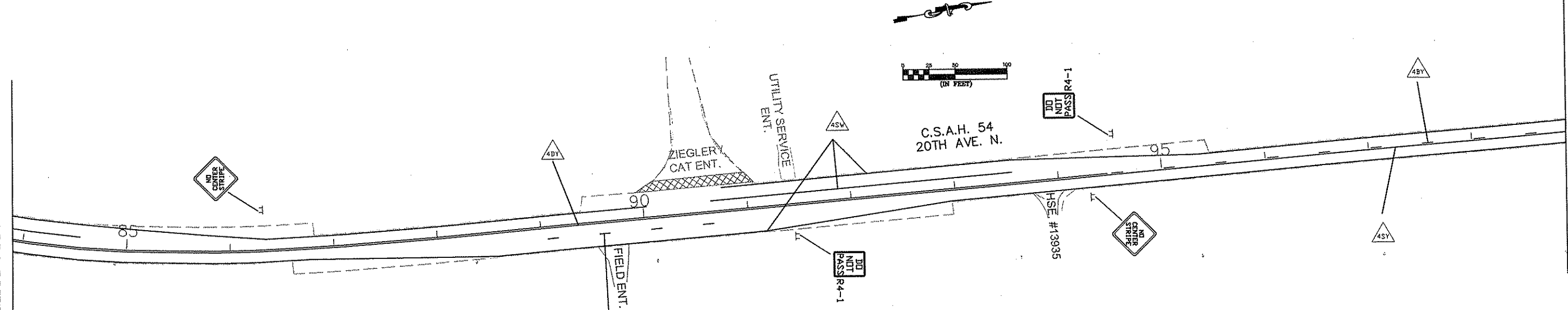
MATCHLINE 'E'

MATCHLINE 'E'

MATCHLINE 'F'



|  |   |
|--|---|
|  | 4" SOLID LINE DOUBLE YELLOW EPOXY PAINT |
|  | 4" SOLID LINE YELLOW EPOXY PAINT        |
|  | 4" BROKEN LINE YELLOW EPOXY PAINT       |
|  | 4" SOLID LINE WHITE EPOXY PAINT         |
|  | 4" BROKEN LINE WHITE EPOXY PAINT        |



- NOTES:
1. LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS ARE DETERMINED IN THE FIELD BY THE ENGINEER.
  2. CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. THE TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.
  3. ALL PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.

| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
|    |      |    |     |      |          |

NAME: T:\Traffic\dwg\CSAH 54 (20th Av. Freeway Dr)\from Ash St\_to\_csoh23.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 C. Anderson*

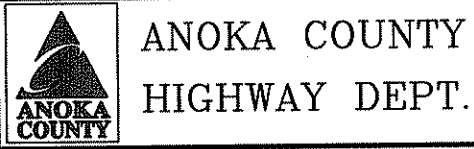
SIGNATURE: *Charles C. Anderson*

DATE: *3/26/10* REG. NO. *40466*

DRAWN BY: MTH DATE: 2/23/10

DESIGN BY: DATE: \_\_\_\_\_

CHECKED BY: DATE: \_\_\_\_\_



STATE PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

COUNTY PROJECT NO. 10-19-54

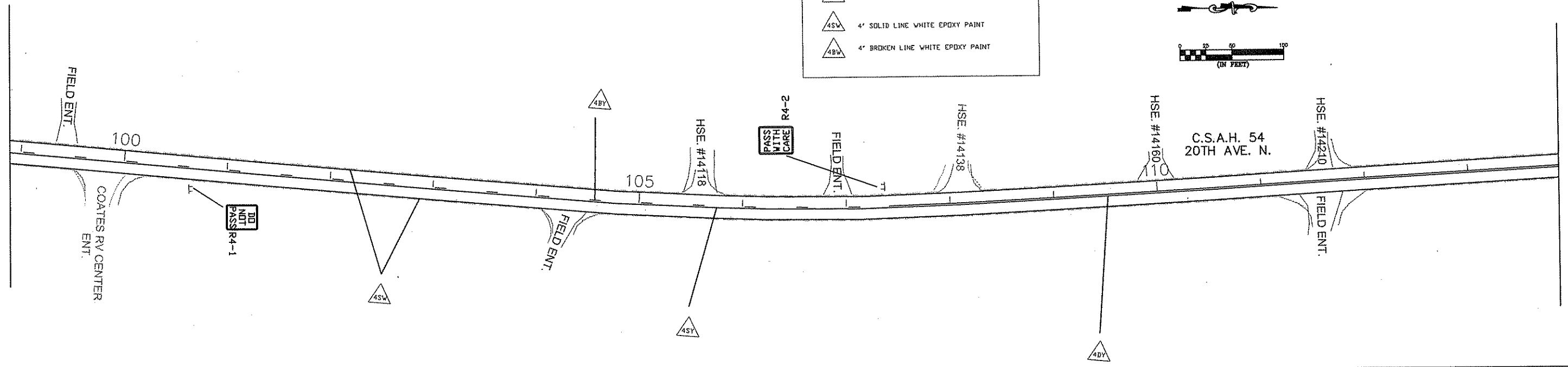
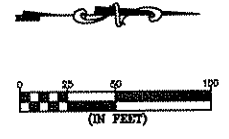
CSAH 54 (20th Ave)  
TEMPORARY SIGNING  
PERMANENT STRIPING  
AND PAVEMENT MESSAGES

Sheet 16 of 20 Sheets

MATCHLINE 'F'

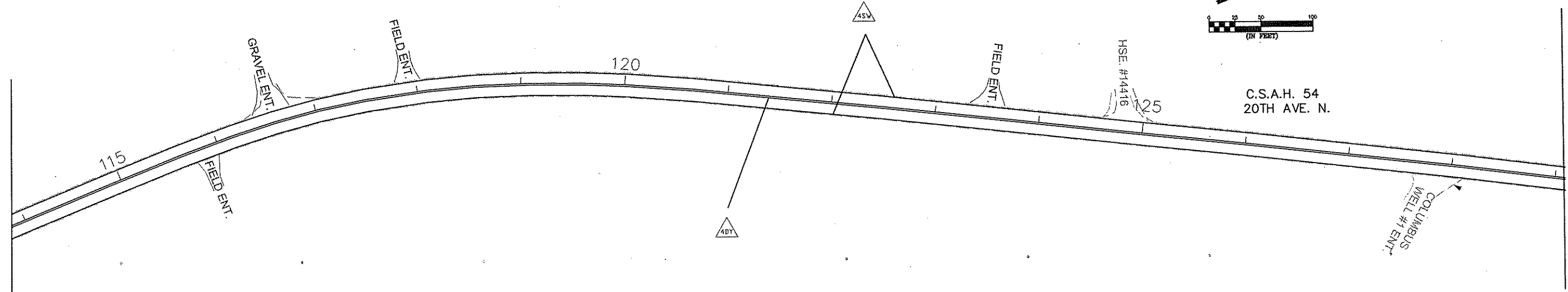
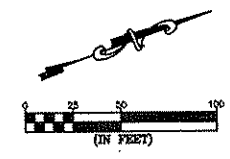
MATCHLINE 'G'

- 4BY 4" SOLID LINE DOUBLE YELLOW EPOXY PAINT
- 4SY 4" SOLID LINE YELLOW EPOXY PAINT
- 4BY 4" BROKEN LINE YELLOW EPOXY PAINT
- 4SW 4" SOLID LINE WHITE EPOXY PAINT
- 4BW 4" BROKEN LINE WHITE EPOXY PAINT



MATCHLINE 'G'

MATCHLINE 'H'



- NOTES:
1. LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS ARE DETERMINED IN THE FIELD BY THE ENGINEER.
  2. CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. THE TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.
  3. ALL PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.

| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
|    |      |    |     |      |          |

NAME: T:\Traffic\dwg\CSAH 54 (20th Av. Freeway Dr)\from Ash ST\_to\_csaah23.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*

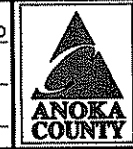
SIGNATURE: *Charles Cadenhead*

DATE: *3/26/10* REG. NO. *4046*

DRAWN BY: MTH DATE: 2/23/10

DESIGN BY: DATE: \_\_\_\_\_

CHECKED BY: DATE: \_\_\_\_\_



ANOKA COUNTY  
HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_






COUNTY PROJECT NO. 10-19-54

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

Sheet 17 of 20 Sheets

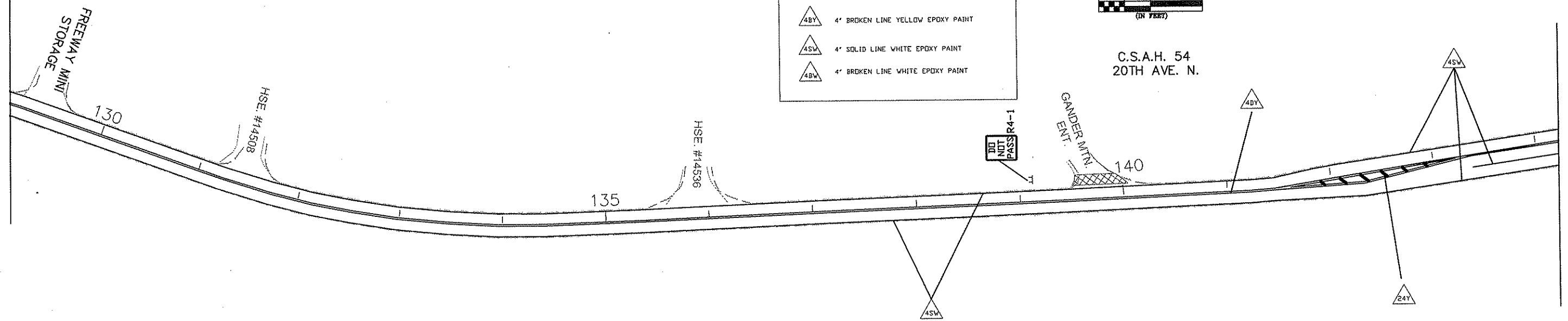
MATCHLINE 'H'

MATCHLINE 'I'

-  4' SOLID LINE DOUBLE YELLOW EPOXY PAINT
-  4' SOLID LINE YELLOW EPOXY PAINT
-  4' BROKEN LINE YELLOW EPOXY PAINT
-  4' SOLID LINE WHITE EPOXY PAINT
-  4' BROKEN LINE WHITE EPOXY PAINT



C.S.A.H. 54  
20TH AVE. N.

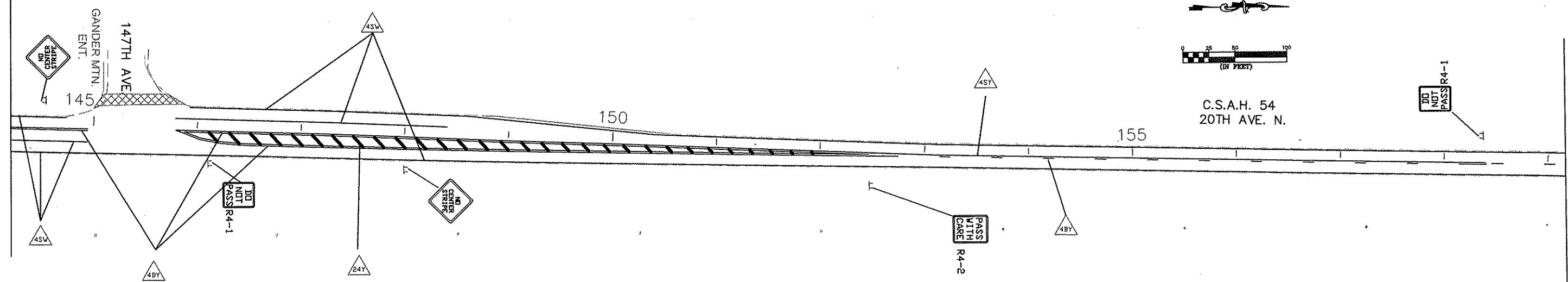


MATCHLINE 'I'

MATCHLINE 'J'



C.S.A.H. 54  
20TH AVE. N.



- NOTES:
- LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS ARE DETERMINED IN THE FIELD BY THE ENGINEER.
  - CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. THE 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.

| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
|    |      |    |     |      |          |
|    |      |    |     |      |          |

NAME: F:\Traffic\dwg\CSAH 54 (20th Av\_Freeway Dr)\from Ash ST\_to\_csh23.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*

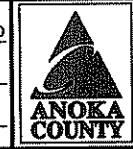
SIGNATURE: *Charles Cadenhead*

DATE: 3/26/10 REG. NO. 40416

DRAWN BY: MTH DATE 2/23/10

DESIGN BY: DATE

CHECKED BY: DATE



ANOKA COUNTY  
HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

STATE AID PROJECT NO. \_\_\_\_\_

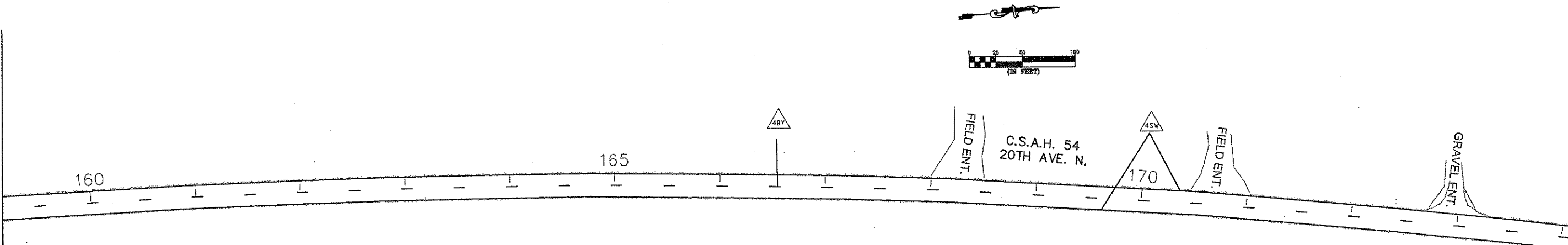
COUNTY PROJECT NO. 10-19-54

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

Sheet 18 of 20 Sheets

MATCHLINE 'J'

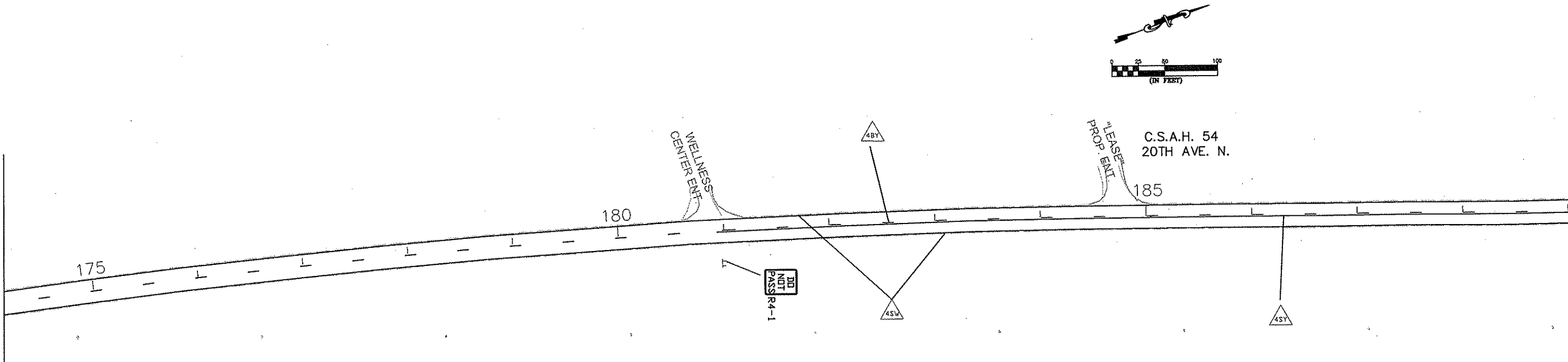
MATCHLINE 'K'



|  |   |
|--|---|
|  | 4' SOLID LINE DOUBLE YELLOW EPOXY PAINT |
|  | 4' SOLID LINE YELLOW EPOXY PAINT        |
|  | 4' BROKEN LINE YELLOW EPOXY PAINT       |
|  | 4' SOLID LINE WHITE EPOXY PAINT         |
|  | 24' SOLID LINE YELLOW EPOXY PAINT       |

MATCHLINE 'K'

MATCHLINE 'L'



- NOTES:
1. LOCATIONS OF PAVEMENT MARKINGS ARE APPROXIMATE. EXACT LOCATIONS ARE DETERMINED IN THE FIELD BY THE ENGINEER.
  2. CONTRACTOR SHALL SUPPLY AND ERECT THE TEMPORARY TRAFFIC CONTROL SIGNS AS SHOWN ON THIS DRAWING FROM THE TIME WORK COMMENCES ON THIS ROADWAY UNTIL THIS ROADWAY IS PERMANENTLY STRIPED. THE TEMPORARY TRAFFIC CONTROL SIGNS SHALL BE PAID FOR AS PART OF TRAFFIC CONTROL LUMP SUM.
  3. ALL PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.

| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
|    |      |    |     |      |          |
|    |      |    |     |      |          |

NAME: F:\Traffic\dwg\CSAH 54 (20th Av\_Freeway Dr)\from Ash St\_to\_csh23.dwg

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PRINT NAME: *Charles Cadenhead*

SIGNATURE: *Charles Cadenhead*

DATE: *3/26/10* REG. NO. *40416*

DRAWN BY: MTH DATE: *2/23/10*

DESIGN BY: \_\_\_\_\_ DATE: \_\_\_\_\_

CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



ANOKA COUNTY  
HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_






STATE AID PROJECT NO. \_\_\_\_\_

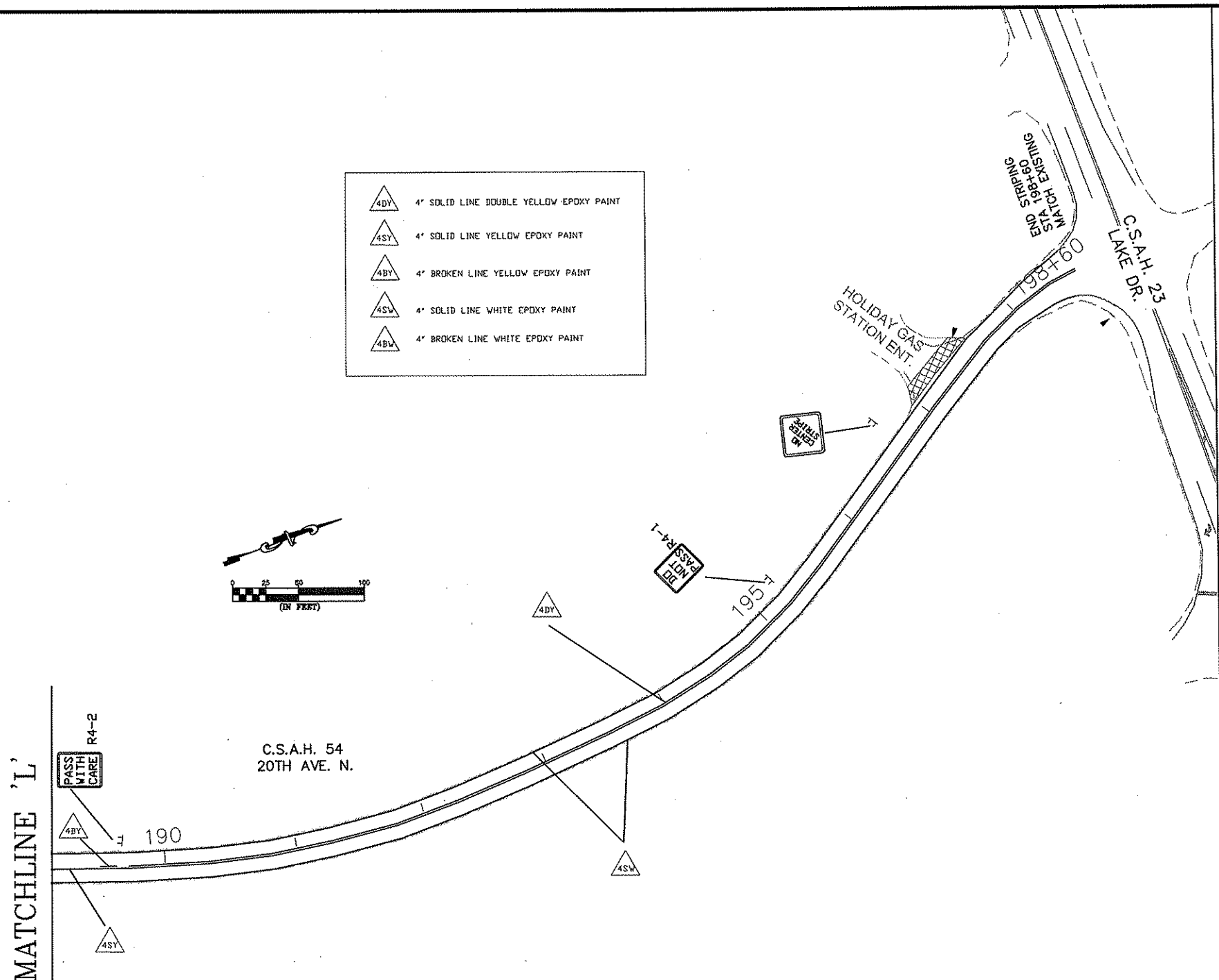
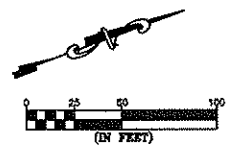
STATE AID PROJECT NO. \_\_\_\_\_

COUNTY PROJECT NO. *10-19-54*




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

Sheet *19* of *20* Sheets

-  4" SOLID LINE DOUBLE YELLOW EPOXY PAINT
-  4" SOLID LINE YELLOW EPOXY PAINT
-  4" BROKEN LINE YELLOW EPOXY PAINT
-  4" SOLID LINE WHITE EPOXY PAINT
-  4" BROKEN LINE WHITE EPOXY PAINT



- NOTES:
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  - ALL PERMANENT STRIPING AND PAVEMENT MESSAGES SHALL BE PLACED WITHIN 72 HOURS OF MAINLINE PAVING.

| SIGN PANELS TYPE C  |           |                                |   |          |          |  |
|---------------------|-----------|--------------------------------|---|----------|----------|--|
| M. U. T. C. D. CODE | SIZE      | PANEL AREA<br>FT. <sup>2</sup> | INSERT  | QUANTITY |          | MOUNTING HEIGHT<br>(TO PAVEMENT EDGE)<br>FT. |
|                     |           |                                |   |          | No. POST |  |
| WB-12               | 48' x 48' | 16.00                          |  | 6        | 2        | 7.0'   |
| R4-1                | 24' x 30' | 5.00                           |  | 13       | 1        | 7.0'   |
| R4-2                | 24' x 30' | 5.00                           |  | 5        | 1        | 7.0'   |

GENERAL NOTES:

- 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".

| NO | DATE | BY | CKD | APPR | REVISION |
|----|------|----|-----|------|----------|
|    |      |    |     |      |          |

NAME: F:\Traffic\dwg\CSAH 54 (20th Av\_Freeway Dr)\from Ash St\_to\_csa23.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 Cudenhead  
 SIGNATURE: [Signature]  
 DATE: 3/16/10 REG. NO. 40466

DRAWN BY: MTH DATE: 2/23/10  
 DESIGN BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



ANOKA COUNTY  
HIGHWAY DEPT.

STATE PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 STATE AID PROJECT NO. \_\_\_\_\_  
 COUNTY PROJECT NO. 10-19-54

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

Sheet 20 of 20 Sheets