CLAY COUNTY MINNESOTA ON CSAH 34 FROM 300' WEST OF THE INTERSECTION OF CSAH 11, THENCE EAST 300' TO CSAH 11. MINNESOTA DEPARTMENT OF TRANSPORTATION = CSAH 34 CLAY COUNTY PRESENT ADT (YEAR): PROJECTED ADT (YEAR): 2045 = 489DEPARTMENT OF HIGHWAYS = RURAL MAJOR COLLECTOR FUNCTIONAL CLASSIFICATION: PROJECTED HCADT (2045) 200THIAVE N ± LESS THAN 50 SOIL FACTOR: FROM PAVEMENT EVALUATION REPORT CONSTRUCTION PLAN FOR: MILL & OVERLAY BESALS (20 YEAR) FLEXIBLE = 82,0007 7 11 STRUCTURAL DESIGN STRENGTH (TONS): 10 11 12 1704 10 R-VALUE: 190TH AVE N COUNTY STATE AID HIGHWAY 34 =(40)= DESIGN DESIGNATION ON CSAH 34 FROM THE INTERSECTION OF CSAH 11, THENCE EAST FELITON 13 17 16 } 5 MILES TO CSAH 19. 18 15 14 18 17 GOVERNING SPECIFICATIONS ROADWAY NAME: = CSAH 34 180TH AVE N THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION PRESENT ADT (YEAR): 2025 = 652"STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. PROJECTED ADT (YEAR): 2045 = 874 VIDIING FUNCTIONAL CLASSIFICATION: = RURAL MAJOR COLLECTOR PROJECTED HCADT (2045) 19 20 23 24 19 20 21 22 23 = LESS THAN 90 TRAFFIC CONTROL SOIL FACTOR: = 130% 170TH AVE N FROM PAVEMENT EVALUATION REPORT ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO LATEST MMUTCD, BESALS (20 YEAR) FLEXIBLE = 179,000 INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL STRUCTURAL DESIGN STRENGTH (TONS): = 10 ZONE LAYOUTS. R-VALUE: 30 27 30 29 FELTON 27 26 160TH AVE N 26 FROM A POINT 300.00' WEST AND 1.61' SOUTH OF THE SOUTHWEST CORNER OF SECTION 28, T-142-N, R-47-W. DESIGN DESIGNATION ON CSAH 34 FROM THE INTERSECTION OF CSAH 19, THENCE EAST TO MINNESOTA AVE. A POINT 49.06' WEST AND 1.72' NORTH OF THE SOUTHWEST CORNER OF ROADWAY NAME: 31 33 35 32 35 SECTION 27, T-142-N, R-46-W 36 PRESENT ADT (YEAR): 2025 = 832150T/HAVE N PROJECTED ADT (YEAR): THE PROJECT LOCATION IS ON CSAH 34 FROM THE INTERSECTION OF CSAH 11 2045 = 1.115FUNCTIONAL CLASSIFICATION: = RURAL MAJOR COLLECTOR EAST APPROXIMATELY 7.0 MILES TO THE INTERSECTION OF TH 9. T141 PROJECTED HCADT (2045) = LESS THAN 120 SOIL FACTOR: = 130% 3 2 5 3 2 6 FROM PAVEMENT EVALUATION REPORT SAP 014-634-032 BESALS (20 YEAR) FLEXIBLE 140TH AVE N STRUCTURAL DESIGN STRENGTH (TONS): = 10 R-VALUE: 37,101.00 FEET 7.027 MILES GROSS LENGTH 11 7 10 12 7 9 11 DESIGN DESIGNATION 8 ON CSAH 34 FROM THE INTERSECTION OF MINNESOTA AVE. THENCE EAST TO TH 9. BRIDGE EXCEPTION LENGTH 0.00 FEET 0.000 MILES 130TH AVE N 0.00 FEET RAILROAD EXCEPTION LENGTH 0.000 MILES TOTAL EXCEPTION LENGTH = CSAH 34 0.00 FEET 0.000 MILES PRESENT ADT (YEAR): 2025 = 933 18 Z 17 Z 15 Z FLOWING 16 Z 14 Z 13 Z 18 Z 17 Z 16 Z 37,101.00 FEET NET LENGTH 7.027 MILES PROJECTED ADT (YEAR): 2045 = 1.250ST FUNCTIONAL CLASSIFICATION: = RURAL MAJOR COLLECTOR S S S ST S PROJECTED HCADT (2045) = LESS THAN 130 SOIL FACTOR: 50TH 23 23 23 OTH FROM PAVEMENT EVALUATION REPORT INDEX BESALS (20 YEAR) FLEXIBLE 19 5 20 0 21 22 20 22 23 24 21 STRUCTURAL DESIGN STRENGTH (TONS): TITLE SHEET AND LOCATION MAP R-VALUE: ESTIMATED QUANTITIES, STANDARD PLATES 109 SHEET GENERAL SITE PLAN TYPICAL SECTIONS DESIGN DESIGNATION SHEET 27 TYPICAL SECTIONS IN FELTON ON CSAH 34 FROM 300' WEST OF THE INTERSECTION OF CSAH 11, THENCE EAST TO TH 9. 26 28 29 MORKEN 25 30 29 26 SHFFT ROAD AND ENTRANCE DETAILS CONSTRUCTION SIGNING SHEET ROADWAY NAME: = CSAH 34 TRAFFIC CONTROL NO, OF TRAFFIC LANES: MNDOT STANDARD PLAN (TRPMS) = 2 SHOULDER WIDTH - RURAL (FEET): THIS PLAN CONTAINS 9 SHEETS REGULATORY/POSTED SPEED (MPH) - RURAL = 55 MPH 31 33 ⋛ 33 35 31 35 32 34 36 32 34 BASED ON STOPPING SIGHT DISTANCE HEIGHT OF EYE (FEET): T141 HEIGHT OF OBJECT (FEET): ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITHIN AVERILL STOP CONDITION AT TH 9 THE CONSTRUCTION OF THIS PROJECT. 5 3 2 5 6 I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER PLAN SYMBOLS MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE ϕ POWER POLE POWER POLE & GUY WIRE JUSTIN SORUM, CLAY COUNTY ENGINEER UTILITY PEDESTAL BEGIN SAP 014-634-032 END SAP 014-634-032 SAP 014-634-032 —T-BUR-BURIED TELEPHONE CABLE STA. 738+25 --- OHP----OVERHEAD POWER STA. 367+24 LOCATION 170+00 CENTERLINE EXISTING R/W **PROJECT** PROPOSED R/W SCALE OF STATUTE MILES CLAY LOCATION LEGEND TREE 12/5/24 PINE TRUNK HIGHWAYS _0_0_ COUNTY-STATE HIGHWAYS BUSH COUNTY HIGHWAYS CULVERT UTILITY INFORMATION BITUMINOUS SURFACE FENCE INTERSTATE HIGHWAY 94 ____ THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-22, ENTITLED, "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES." SAP 014-634-032 TITLE SHEET AND LOCATION MAP SHEET 1 OF 9 SHEETS

DESIGN DESIGNATION

SCHEDULE OF ESTIMATED QUANTITIES

SPEC. NO	ITEM	UNIT	TOTAL ESTIMATED QUANTITIES (PARTICIPATING, CSAH REGULAR)	NOTES
2021.501	MOBILIZATION	LUMP SUM	1	
2211,507	AGGREGATE BASE (LV) CLASS 5	CU YD	335	THIS ITEM INCLUDES ROAD INTERSECTIONS, APPROACHES AND ENTRANCES AS NEEDED, MNDOT SPEC. 1903 DOES NOT APPLY.
2232.504	MILL BITUMINOUS SURFACE (2")	SQ YD	167,304	(3) 8) STA. 367+24 TO STA. 738+25, THIS INCLUDES ALL ROAD, BUSINESS, HOME AND FIELD ENTRANCES (SEE ROAD AND ENTRANCE DETAIL).
2360.509	TYPE SP 12.5 WEARING COURSE MIXTURE (3;B)	TON	30,383	①②④ APPLICATION RATE OF 115 LBS./SQ.YD./1", THIS INCLUDES ROAD INTERSECTIONS, APPROACHES AND ENTRANCES.
2563.601	TRAFFIC CONTROL	LUMP SUM	1	3 THIS ITEM INCLUDES BOTH THE CONTRACTORS SIGNING AND THE PILOT CAR.
2563.601	TEMPORARY RAISED PAVEMENT MARKERS	LUMP SUM	1	6 THIS ITEM PROVIDES FOR THE CONTRACTOR SUPPLYING AND PLACING THE TRPM'S ON THE FINAL LIFT.
2580.501	INTERIM PAVEMENT MARKING	LUMP SUM	1	(5) THIS ITEM PROVIDES FOR INTERIM PAVEMENT MARKING FOR ALL LIFTS EXCLUDING THE FINAL LIFT.
2582.503	4" SOLID LINE MULTI COMP	LIN FT	400	THIS ITEM PROVIDES FOR A YELLOW NO PASSING ZONE AT TH 9.
2582,503	6" SOLID LINE MULTI COMP	LIN FT	69,950	THIS ITEM PROVIDES FOR A WHITE SHOULDER STRIPE IN EACH DIRECTION. NOT IN THE CITY OF FELTON,
2582,503	24" SOLID LINE MULTI COMP	LIN FT	12	THIS ITEM PROVIDES FOR 24" SOLID WHITE STOP BAR NEAR THE STOP SIGN AT TH 9.
2582.503	4" BROKEN LINE MULTI COMP	LIN FT	7,420	MARKING SHALL BE A 50' CYCLE, YELLOW 10' STRIPE WITH A 40' SKIP
1				
1				

GENERAL CONSTRUCTION NOTES

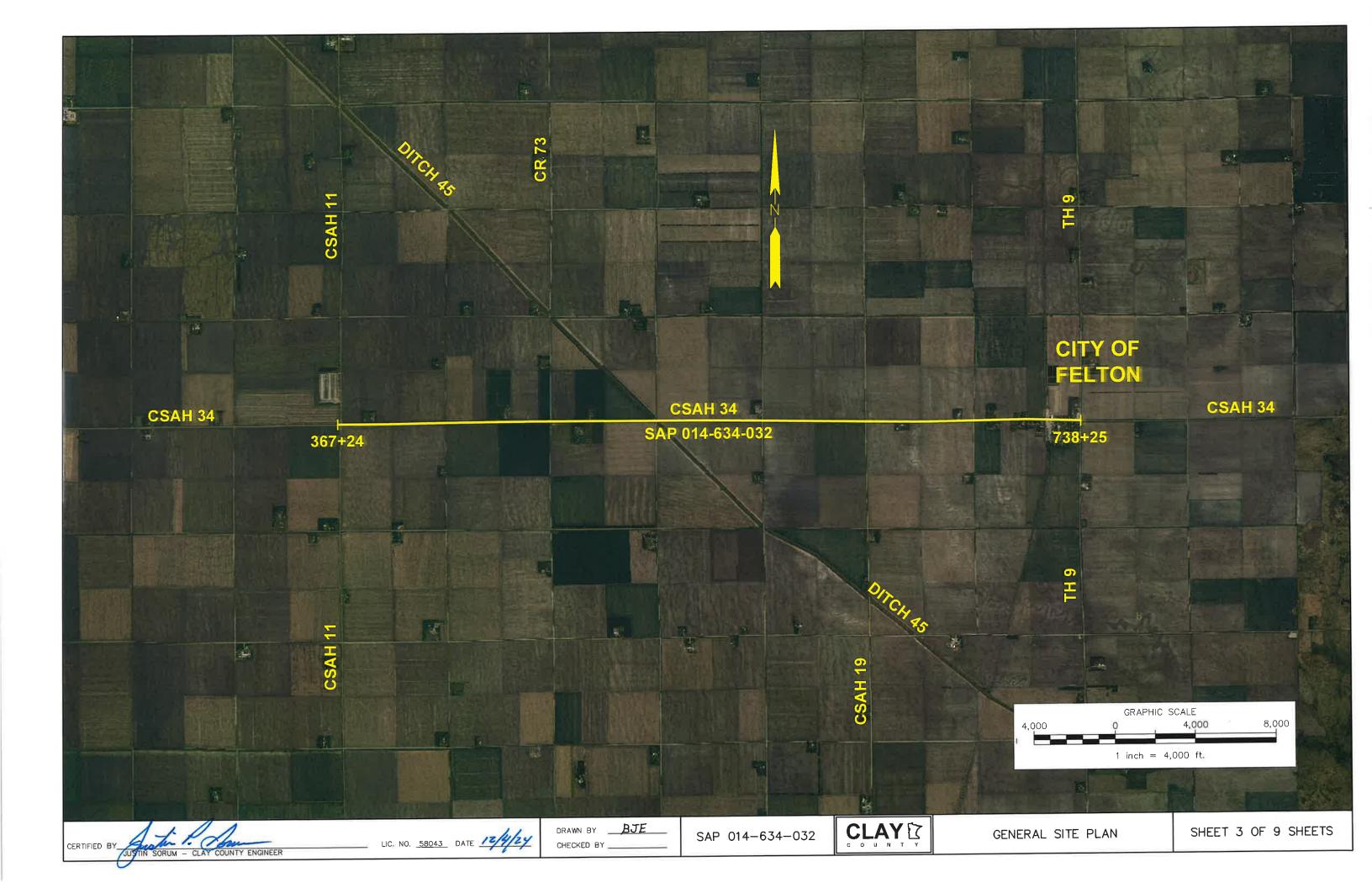
- BITUMINOUS MATERIAL FOR TACK COAT (2357) SHALL BE APPLIED AND SHALL BE INCIDENTAL TO BITUMINOUS CONSTRUCTION. THIS SHALL BE APPLIED AT AN UNDILUTED RATE OF 0.06 GAL/SQ. YD. OVER NEW A SURFACE, 0.08 GAL/SQ. YD. OVER A MILLED SURFACE, AND 0.09 GAL/SQ. YD. OVER A OLD SURFACE. THIS SHALL BE CSS-1, CSS-1H OR CQS-1H, AND BE IN ACCORDANCE WITH SPECIFICATION 2357.
- (2) ROAD SLOPE SHALL BE .02' PER FT., CROWN CORRECTION QUANTITIES ARE INCLUDED IN THE TOTAL.
- 3 ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT ADDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE MOST RECENT ADDITION OF THE TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS (FIELD MANUAL). THE EXACT LOCATIONS OF THE TRAFFIC CONTROL DEVICES WILL BE DETERMINED BY THE CONTRACTOR, SUBJECT TO THE APPROVAL OF THE ENGINEER. TRAFFIC CONTROL DEVICES WILL BE MAINTAINED BY THE CONTRACTOR DAILY. ALL CONSTRUCTION AND DETOUR SIGNING SHALL BE REMOVED WITHIN ONE WEEK OF FINAL STRIPPING OR BE SUBJECT TO LIQUIDATED DAMAGES IN THE AMOUNT OF \$500.00 PER CALENDAR DAY.
- CONSTRUCTION TWINE SHALL BE USED ON ALL PAVING LIFTS TO ENSURE THE CENTERLINE OF THE ROAD MATCHES THE OFFSETS ON THE CONSTRUCTION LATH.
- (5) THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL INTERIM PAVEMENT MARKING WITHOUT EXCEPTION AND SHALL BE PAID AS LUMP SUM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR BOTH SUPPLYING AND THE PLACEMENT OF THE TEMPORARY RAISED PAVEMENT MARKERS (TRPM'S) ON THE FINAL LIFT. THE TRPM'S SHALL COMPLY WITH THE MINNESOTA DEPARTMENT OF TRANSPORTATION REQUIREMENTS. THE TRPM'S SHALL REMAIN IN PLACE UNTIL FINAL STRIPING AND BE REMOVED BY THE CONTRACTOR. THIS SHALL BE PAID AS LUMP SUM. SEE SHEET 9 FOR TRPM INTERIM PAVEMENT MARKING DETAILS. ONLY CENTERLINE TRPM'S ARE REQUIRED AT A 50' CYCLE, (40' SKIP X 10').
- AFTER MILLING OPERATIONS A SMALL WEDGE SHALL BE PLACED AT THE BEGINNING & END OF EACH PHASE AND AT THE END OF EACH DAYS PAVING.
- (8) ALL MATERIAL SALVAGED DURING MILLING OPERATIONS SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- 9) NO MATERIAL SHALL BE ALLOWED ON THE PROJECT WITHOUT FIRST SUPPLYING THE MATERIALS CERTIFICATION FORM, THIS INCLUDES ALL CHANGE ORDERS.

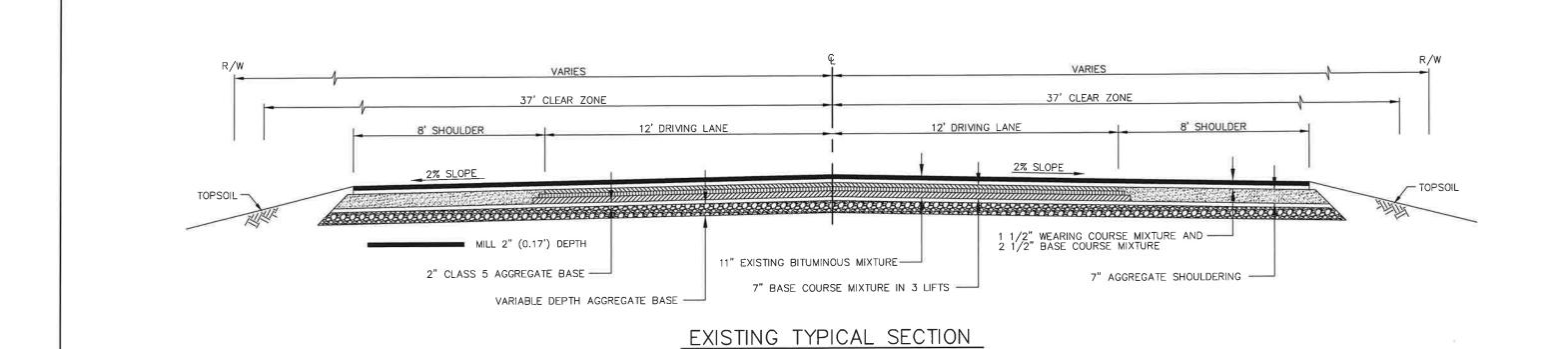
	STANDARD PLATES				
THE F	FOLLOWING STANDARD PLATES APPROVED BY THE RAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.				
PLATE NO.	DESCRIPTION				
8000K	TEMPORARY CHANNELIZERS				

CERTIFIED BY JUSTIN SORUM - CLAY COUNTY ENGINEER

LIC. NO. <u>58043</u> DATE <u>12/4/24</u>

DRAWN BY BJE CHECKED BY





(NO SCALE)

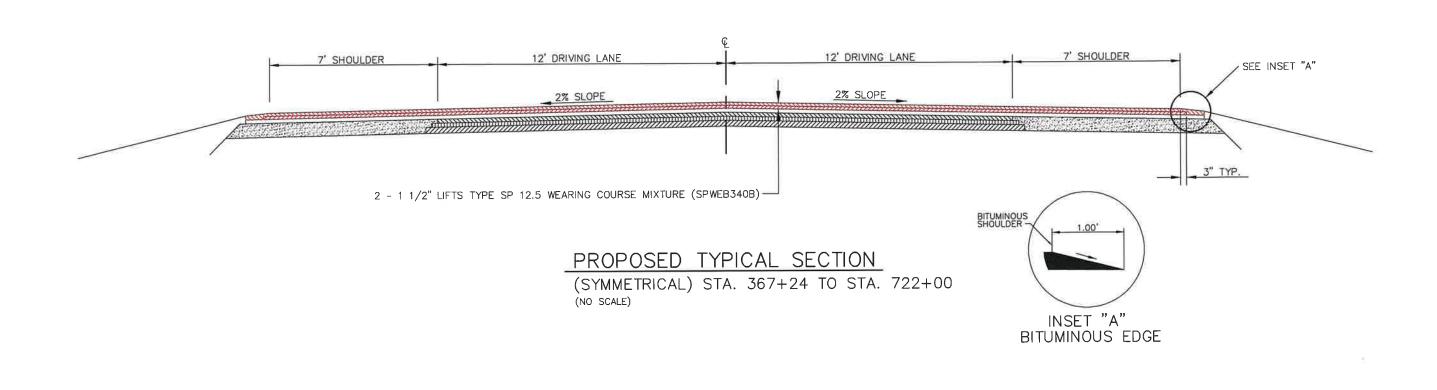
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LIC. NO. 58043 DATE 12/1/14

CERTIFIED BY

JUSTIN SORUM - CLAY COUNTY ENGINEER



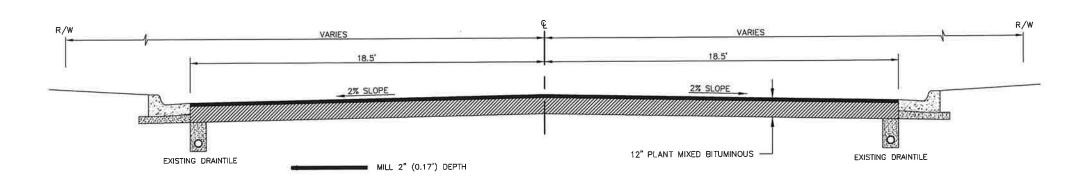
SAP 014-634-032

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TYPICAL SECTIONS

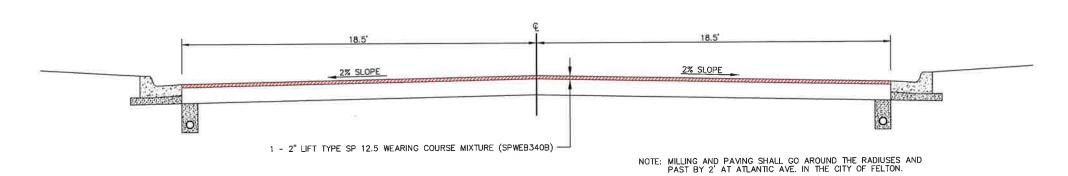
SHEET 4 OF 9 SHEETS

(SYMMETRICAL) STA. 367+24 TO STA. 722+00



EXISTING TYPICAL SECTION

(SYMMETRICAL) STA. 722+00 TO STA. 738+25 (NO SCALE)



PROPOSED TYPICAL SECTION

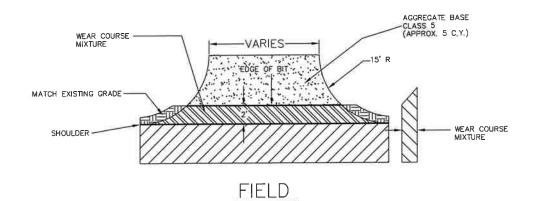
(SYMMETRICAL) STA. 722+00 TO STA. 738+25 (NO SCALE)

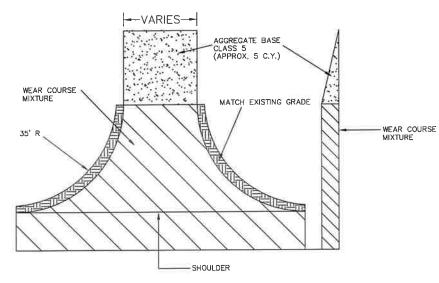
CERTIFIED BY JUSTIN SORUM - CLAY COUNTY ENGINEER LIC. NO. 58043 DATE 12/1/27

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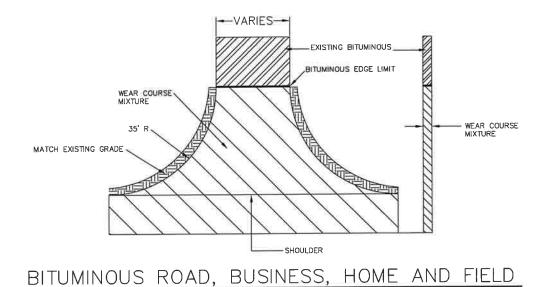
TYPICAL SECTION (FELTON)

SHEET 5 OF 9 SHEETS





GRAVEL ROAD, BUSINESS AND HOME



ENTRANCE LOCATIONS

ROAD, BUSINESS AND HO	FIELD		
LOCATION	CLASS 5	LOCATION	CLASS
370+24 L - 70TH ST N		382+20 L - FIELD ENT	5 CU YE
370+24 R - 70TH ST N		387+00 R - FIELD ENT	5 CU YE
387+00 L - HOME ENT	5 CU YD	396+31 R - FIELD ENT	5 CU Y
422+50 L - 80TH ST N	5 CU YD	396+36 L - FIELD ENT	5 CU Y
422+50 R - 80TH ST N	5 CU YD	405+78 L - FIELD ENT	5 CU YI
453+07 L - HOME ENT	5 CU YD	409+97 R - FIELD ENT	5 CU YI
474+97 L - 90TH ST N	5 CU YD	424+85 L - FIELD ENT	5 CU YI
474+97 R - 90TH ST N	5 CU YD	424+85 R - FIELD ENT	5 CU YU
476+84 R — SUBSTATION	5 CU YD	446+46 L - FIELD ENT	5 CU YI
492+13 R - HOME ENT	5 CU YD	448+80 R - FIELD ENT	5 CU YI
494+70 L — HOME ENT	5 CU YD	463+81 L - FIELD ENT	5 CU YI
527+00 L - 100TH ST N	5 CU YD	482+55 L - FIELD ENT	5 CU YI
527+00 R - 100TH ST N	5 CU YD	484+00 R - FIELD ENT	5 CU YI
580+34 L - 110TH ST N	5 CU YD	494+74 R - FIELD ENT	5 CU YI
580+34 R - 110TH ST N	5 CU YD	499+82 L - FIELD ENT	5 CU YI
631+46 L - 120TH ST N	5 CU YD	501+69 R - FIELD ENT	5 CU YI
631+50 R - 120TH ST N	5 CU YD	501+84 L - FIELD ENT	5 CU YI
649+01 R - HOME ENT	5 CU YD	525+23 L - FIELD ENT	5 CU YI
650+55 R - HOME ENT	5 CU YD	528+52 R - FIELD ENT	5 CU Y
677+33 L - HOME ENT	5 CU YD	553+57 L - FIELD ENT	5 CU YI
685+50 L - 130TH ST N	5 CU YD	553+57 R - FIELD ENT	5 CU YI
685+50 R - 130TH ST N	5 CU YD	579+27 R - FIELD ENT	5 CU YI
694+31 R - HOME ENT	5 CU YD	602+85 L - FIELD ENT	5 CU YI
696+56 R - HOME ENT	5 CU YD	606+05 R - FIELD ENT	5 CU YI
696+74 L - HOME ENT	5 CU YD	617+82 L - FIELD ENT	5 CU Y
704+05 R - HOME ENT	5 CU YD	617+82 R - FIELD ENT	5 CU Y
706+80 L - HOME ENT	5 CU YD	641+26 R - FIELD ENT	5 CU Y
707+80 R - HOME ENT	5 CU YD	658+95 R - FIELD ENT	5 CU Y
708+13 L - HOME ENT	5 CU YD	659+03 L - FIELD ENT	5 CU Y
710+27 R - HOME ENT	5 CU YD	671+35 L - FIELD ENT	5 CU Y
711+68 L - HOME ENT	5 CU YD	678+34 R - FIELD ENT	5 CU Y
712+29 R - HOME ENT	5 CU YD	689+69 R - FIELD ENT	5 CU Y
713+03 R - HOME ENT	5 CU YD	698+30 R - FIELD ENT	5 CU Y
714+94 R - DAKOTA AVE		702+28 L - FIELD ENT	5 CU Y
719+43 R - HOME ENT	5 CU YD	719+36 L — FIELD ENT	5 CU Y
720+24 R - PACIFIC AVE			
723+68 R - ATLANTIC AVE			
TOTALS	160 CU YD	TOTALS	175 CU

GENERAL CONSTRUCTION NOTES

- 1) FIELD STATIONING MAY NOT MATCH EXACTLY.
- 2) ALL EXISTING BITUMINOUS HIGHWAY AND ROAD INTERSECTIONS SHALL BE ENTIRELY MILLED AND PAVED.
- 3 ALL EXISTING BITUMINOUS BUSINESS, HOME AND FIELD ENTRANCES SHALL HAVE TWO MILLING PASSES TAKEN LONGITUDINALLY WITH THE CENTER OF THE ROADWAY. (CONSULT THE ENGINEER IN THE FIELD).
- 4 ALL APPROACHES, ENTRANCES AND RADII SHALL BE FINISHED TO A MINIMUM 1:4 INSLOPE WITH THE SPECIFIED MATERIAL AS THICKNESS REQUIRES.
- 5) EXCAVATION NECESSARY FOR APPROACHES SHALL BE INCIDENTAL TO WEARING COURSE MIX.
- THE CONTRACTOR AND THE ENGINEER IN THE FIELD SHALL CALCULATE AND AGREE ON THE MILLING QUANTITY DAILY.

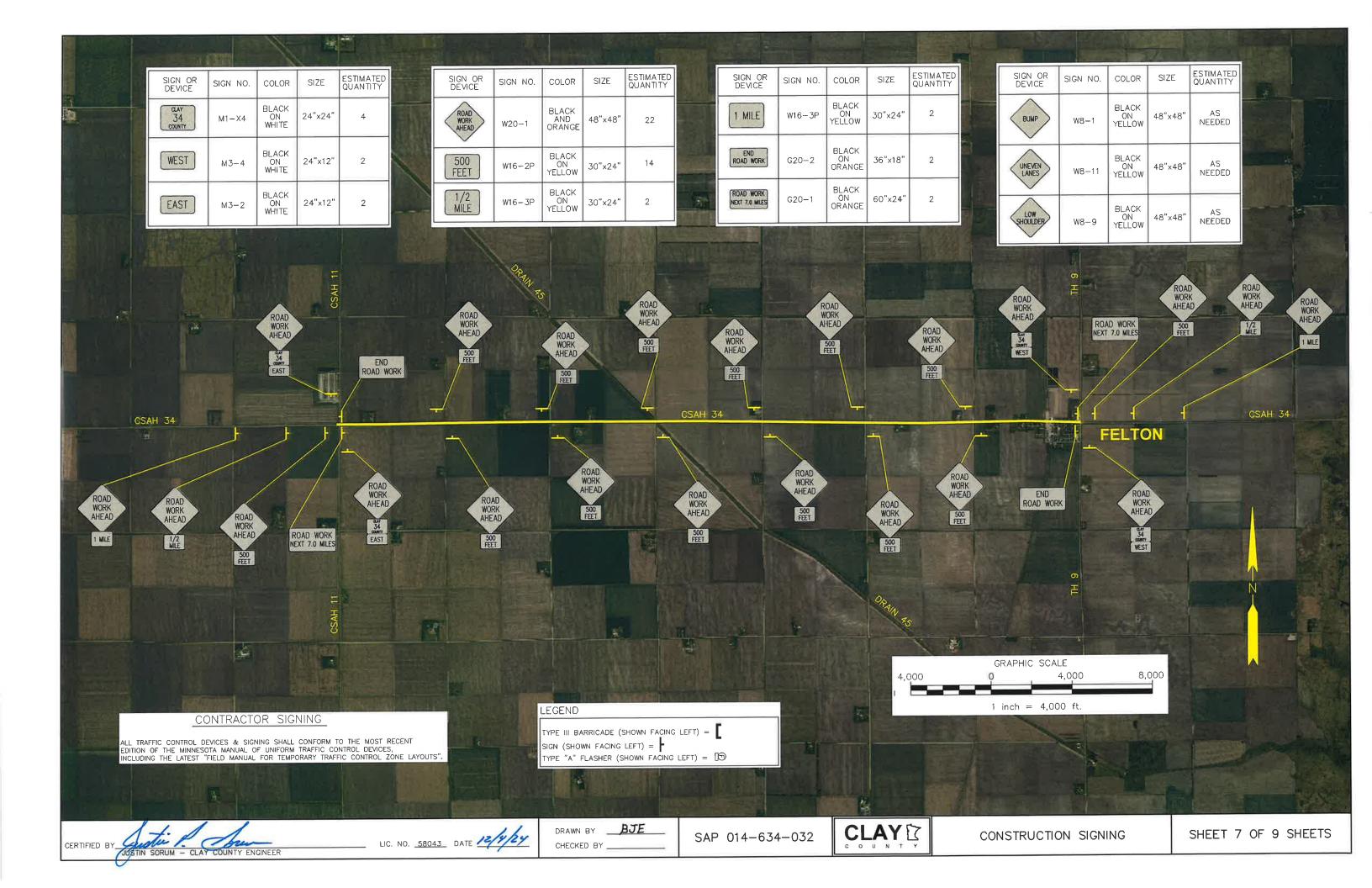
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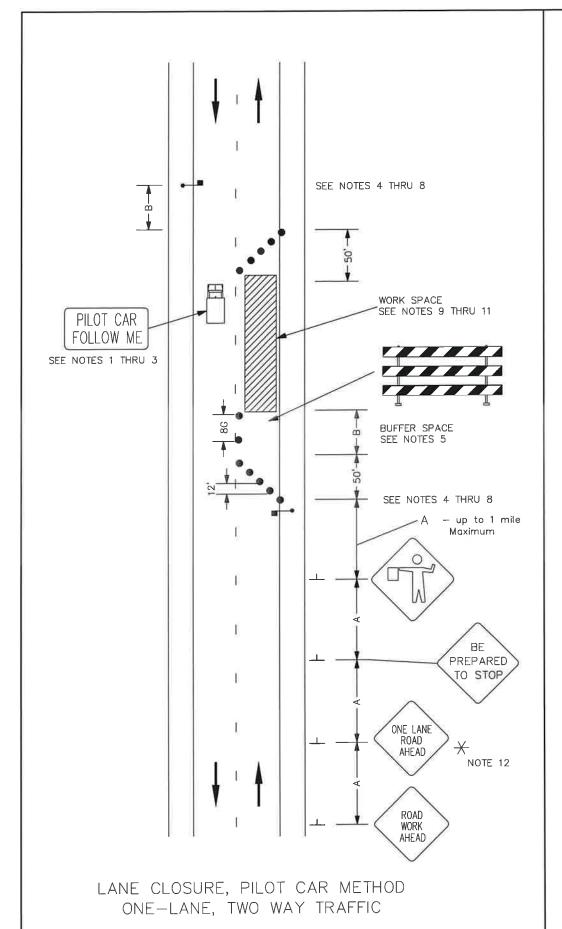
LIC. NO. 58043 DATE 12/4/24

CLAY

ROAD AND ENTRANCE DETAILS

SHEET 6 OF 9 SHEETS





POSTED SPEED LIMIT PRIOR TO WORK	SPACING OF ADVANCE WARNING SIGNS	SPACING OF CHANNELIZING DEVICES (G)	BUFFER SPACE (B)	DECISION SIGHT DISTANCE
STARTING (MPH)	(A) FEET	FEET	FEET	FEET
0 - 30	250	25	200	550
35 - 40	325	25	305	700
45 - 50	600	50	425	900
55	750	50	500	1200
60 - 65	1000	50	650	1400
70 - 75	1200	50	820	1600

NOTE:

NOT ALL INFORMATION IN THIS BOX MAY APPLY TO THIS DETAIL.

NOTES:

- 1. THE PILOT CAR FOLLOW ME (G20-4) SIGN SHALL BE MOUNTED AT A CONSPICUOUS LOCATION ON THE REAR OF THE PILOT CAR VEHICLE.
- THE PILOT CAR SHOULD HAVE THE NAME OF THE CONTRACTOR OR CONTRACTING AUTHORITY PROMINENTLY DISPLAYED.
- 3. PILOT CARS SHOULD LEAD TRAFFIC THROUGH THE WORK ZONE AT A SAFE SPEED. SEE THE FLAGGER HANDBOOK FOR ADDITIONAL GUIDANCE.
- ADVANCE WARNING SIGNS ARE THE SAME FOR BOTH DIRECTIONS APPROACHING THE WORK AREA.
- 5. BUFFER SPACE SHOULD BE PROVIDED WHEN APPROACH LANE IS CLOSED.
- 6. THE APPROACH SIGHT DISTANCE TO THE FLAGGER SHALL BE AT LEAST THE DECISION SIGHT DISTANCE.
- 7. WORK SHALL BE LIMITED TO DAYLIGHT HOURS.
- 8. FLAGGERS SHOULD NOT ALLOW ADDITIONAL CARS TO FOLLOW THE PILOT CAR IF THE END OF THE PLATOON HAS TRAVELED FARTHER THAN 300 FT BEYOND THE FLAGGER STATION.
- 9. ALL LANE TRANSITION AREAS SHALL HAVE CHANNELIZING DEVICES IN TAPERS.
- CHANNELIZING DEVICES ALONG THE EDGE OF THE WORK SPACE MAY BE OMITTED UNLESS:
 - A. TRAFFIC IS TRAVELING NEXT TO THE LONGITUDINAL DROP-OFFS THAT ARE GREATER THAN 4 INCHES, OR
 - B. VISIBILITY OF THE OPEN TRAVELED LANE IS RESTRICTED.
- 11. HAZARDOUS AREAS WITHIN THE WORK SPACE SHOULD HAVE CHANNELIZATION AND BARRIERS, SUCH AS WHEN TRAFFIC IS ADJACENT TO DROP-OFFS GREATER THAN 12 INCHES.
- 12. THE ONE LANE ROAD AHEAD SIGN MAY BE OMITTED WHEN THE POSTED SPEED LIMIT IS 40 MPH OR LESS.
- 13. UNEVEN LANES AND LOW SHOULDER SIGNS TO BE USED AS CONDITIONS WARRANT,

NOTES:

ALL TRAFFIC CONTROL DEVICES & SIGNING SHALL CONFORM TO THE MOST RECENT EDITION OF THE MINNESOTA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS". THE EXACT LOCATION OF THE TRAFFIC CONTROL DEVICES WILL BE DETERMINED BY THE CONTRACTOR, SUBJECT TO THE APPROVAL OF THE ENGINEER.

ALL TRAFFIC CONTROL DEVICES SHOWN, UNLESS OTHERWISE INDICATED, SHALL BE FURNISHED, INSTALLED, MAINTAINED, REMOVED BY, AND REMAIN THE PROPERTY OF CONTRACTOR.

UNLESS OTHERWISE DIRECTED BY THE ENGINEER, ALL SIGNS SHOWN (EXCEPT BARRICADE MOUNTED SIGNS) SHALL BE FASTENED TO TWO UPRIGHT POSTS EXTENDED FROM TWO DRIVEN GROUND POSTS. ALL SIGNS SHALL CONFORM TO THE HEIGHT REQUIREMENTS OF THE SECOND PARAGRAPH OF SECTION 2A-14 OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL WARNING SIGNS SHALL HAVE BLACK LETTERS ON ORANGE COLORED, DIAMOND GRADE, RETROREFLECTIVE SHEETING. REGULATORY SIGNS SHALL CONFORM IN LETTER SIZE AND COLOR TO THE REQUIREMENTS SPECIFIED IN THE MINNESOTA STANDARD SIGNS MANUAL, INCLUDING THE TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS, FIELD MANUAL.

TRAFFIC CONTROL SIGNS MAY BE INSTALLED ON PORTABLE STANDS IN LOCATIONS APPROVED BY THE ENGINEER

CONSTRUCTION ZONE SIGNING IS ALSO THE RESPONSIBILITY OF CONTRACTOR. SIGNS REQUIRED INCLUDE BUT ARE NOT LIMITED TO ROAD CONSTRUCTION AHEAD, DIP, BUMP, FLAG PERSON, NUMBER OF SIGNS AND LOCATION DETERMINED BY CONTRACTOR'S OPERATION. ALL SIGNS SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. INCLUDING THE "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".

ANY EXISTING SIGNS THAT ARE CONFLICTING IN THE CONSTRUCTION ZONE AND ARE NOT REMOVED DUE TO CONSTRUCTION, SHALL BE COVERED (INCIDENTAL). SIGN COVERS SHALL BE CONSTRUCTED OF ALUM. PANELS INSTALLED WITH NYLON WASHERS BETWEEN THE SIGN & THE COVER. THE COVERS SHALL CAUSE NO DAMAGE TO THE SIGN PANEL THEY COVER.

STOP SIGNS REMOVED DURING CONSTRUCTION SHALL BE REPLACED WITH TEMPORARY STOP SIGNS IN LOCATIONS APPROVED BY THE ENGINEER. AT THE COMPLETION OF THE PROJECT, PERMANENT STOP SIGNS SHALL BE RE-INSTALLED IN LOCATIONS APPROVED BY THE ENGINEER.

ALL FLASHERS SHOULD BE ON SIDE NEAREST THE ROAD.

SIGN DIMENSIONS ARE IN ENGLISH UNITS

THE SIGNING AND CHANNELIZATION DEVICE TABULATION SHOWN IS FOR INFORMATIONAL PURPOSES. ADDITIONAL SIGNS AND DEVICES SHALL BE PROVIDED, AS REQUIRED WITH NO ADJUSTMENT IN THE UNIT PRICE BID FOR ITEM "TRAFFIC CONTROL", LUMP SUM.

NOTATIONS

- 1. STANDARD BARRICADES SHALL HAVE (2) FLASHERS EACH.
- 2. "DIAMOND GRADE" WIDE ANGLE PRISMATIC SHEETING SHALL BE USED ON ALL SIGNING, BARRICADES, CONES, BOARDS, ETC.
- 3. ALL SIGNING SHALL BE IN PLACE PRIOR TO THE START OF THE PROJECT.
- 4. PORTABLE ROAD WORK AHEAD (W20-1) SIGNS SHALL BE USED IN THE AREA OF ACTIVE CONSTRUCTION.
- 5. ALL SIGNS, BARRICADES AND FLASHERS SHALL BE CHECKED AND MAINTAINED DAILY.

X - REQUIRED FOR SPEEDS GREATER THAN 45 MPH.

 - CHANNELIZING DEVICE. (CONES OR TUBULAR MARKERS MAY BE USED ONLY FOR DAYTIME OPERATIONS)

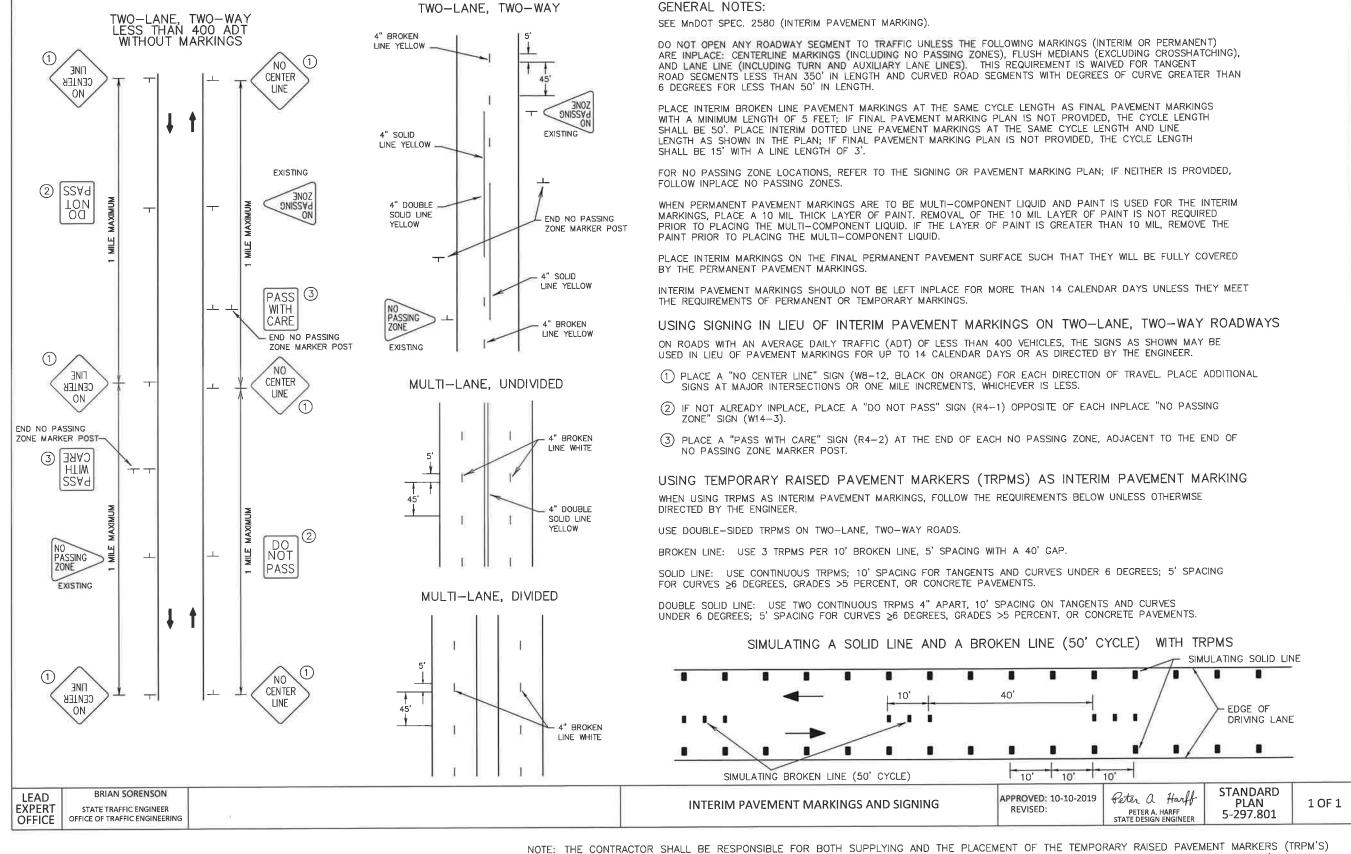
CERTIFIED BY JUSTIN SORUM - CLAY COUNTY ENGINEER LIC. NO. 58043 DATE 12/1/24

SAP 014-634-032

CLAY Y

TRAFFIC CONTROL

SHEET 8 OF 9 SHEETS



ON THE FINAL LIFT. THE TRPM'S SHALL COMPLY WITH THE MINNESOTA DEPARTMENT OF TRANSPORTATION REQUIREMENTS. THE TRPM'S SHALL REMAIN IN PLACE UNTIL FINAL STRIPING AND BE REMOVED BY THE CONTRACTOR. THIS SHALL BE PAID AS LUMP SUM. ATTACHED ARE MNDOT'S REQUIREMENTS FOR TRPM'S. ONLY CENTERLINE TRPM'S ARE REQUIRED AT A 50' CYCLE, (40' SKIP X 10').

LIC. NO. <u>58043</u> DATE <u>13/4/27</u> CERTIFIED BY JUSTIN SORUM - CLAY COUNTY ENGINEER

BJE DRAWN BY ___ CHECKED BY

MNDOT STANDARD PLAN TEMPORARY RAISED PAVEMENT MARKERS

SHEET 9 OF 9 SHEETS