Section No.

Section No.

TOTAL SHEETS =

MAY 2021 STATE OF WISCONSIN ORDER OF SHEETS Section No. **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Section No. Estimate of Quantities Section No. Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Section No. Plan and Profile

FEDERAL PROJECT STATE PROJECT CONTRACT PROJECT 1014-00-77 WISC 2021353 1

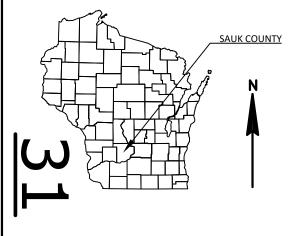
WISCONSIN DELLS - PORTAGE

ISHNALA ROAD TO SCHEPPS ROAD, EB ONLY

IH 90 **SAUK COUNTY**

STATE PROJECT NUMBER 1014-00-77

R-6-E R-7-E R-7-E R-8-E



Standard Detail Drawings

Cross Sections

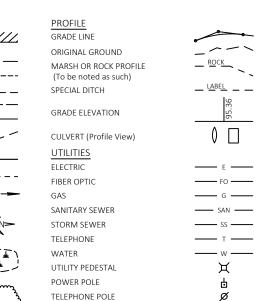
DESIGN DESIGNATION 1014-00-07

AADT 2021 = 39.460 A.A.D.T. = 43,650 D.H.V. = 3,300 = 58/42 D.D. = 27.3% DESIGN SPEED = 70 MPH

= 30,000,000

CONVENITIONIAL CVAADOLC

| CONVENTIONAL SYMBOLS |
|--|
| PLAN CORPORATE LIMITS |
| PROPERTY LINE |
| LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE |
| SLOPE INTERCEPT |
| REFERENCE LINE |
| EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) |
| COMBUSTIBLE FLUIDS |
| MARSH AREA |
| WOODED OR SHRUB AREA |



TELEPHONE POLE

BEGIN PROJECT STA 303+15 X = 535245.40

Y = 78235.16



2.5 MI SCALE I TOTAL NET LENGTH OF CENTERLINE = 8.301 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), SAUK COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATÉS, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18.

END PROJECT

STA 741+46

X = 575977.49

Y = 69380.24

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY WISDOT Surveyor Designer JOHN BAINTER Project Manage Regional Examiner JIM SAVOLDELLI

Ε

FILE NAME: \LAXRTOPFLPPI01\N3PUBLIC\PDS\C3D\10140007\SHEETSPLAN\010101_TI.DWG

PLOT DATE : 7/9/2020 12:28 PM KUBE, SAMUEL J

2

2

GENERAL NOTES

- THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
- THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE OR PARKING LANE.
- HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN. HMA WILL BE PAVED IN TWO 1.75 IN LIFTS
- CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY THIS
 OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.
- THE QUANTITY OF THE ITEMS FOR EROSION PROTECTION INCLUDES AN UNDISTRIBUTED AMOUNT FOR PROTECTION, CONTROLAND
 ABATEMENT OF WATER POLLUTION RESULTING FROM SOIL EROSION. THE DISTRIBUTION AND LOCATION OF THESE MATERIALS ARE TO BE
 DETERMINED BY THE ENGINEER.
- DISTURBED A REAS WITHIN THE RIGHT OF WAY ARE TO BE TOPSOILED (SALVAGED), FERTILIZED, SEEDED, AND COVERED WITH E-MAT AS DRECTED BY THE ENGINEER.
- TACK SHALL BE APPLIED AT A RATE OF 0.05 GAL/SY BETWEEN NEW HMA LAYERS AND A RATE OF 0.07 GAL/SY ON EXISTING PAVEMENT

| HITH | IITV | CON | TAC: | re |
|------|------|-----|------|----|
| UII | | CON | IAC | ı |

SHAWN PIETRZAK ADAMS-COLUMBIA ELECTRIC COOPERATIVE - ELECTRICITY 401 E LAKE ST FRIENDSHIP, WI 53934 (800) 831-8629 ext. 323

WILLIAM KOENIG - JMC ENGINEERS AT&T LEGACY - COMMUNICATION LINE 110 N MAIN ST CULVER, IN 46511 (608) 628-0575 mobile wekoenig@att.net

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DNR LIAISON

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FITCHBURG, WI 53711
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andrew.barta@wisconsin.gov

ORDER OF SECTION 2 SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
TRAFFIC CONTROL AND CONSTRUCTION STAGING
DETOUR PLAN
PAVEMENT MARKING
PLAN VIEW

OTHER CONTACTS

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433 W. ST. PAUL AVE
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(414) 410-6854
pkutz@hntb.com

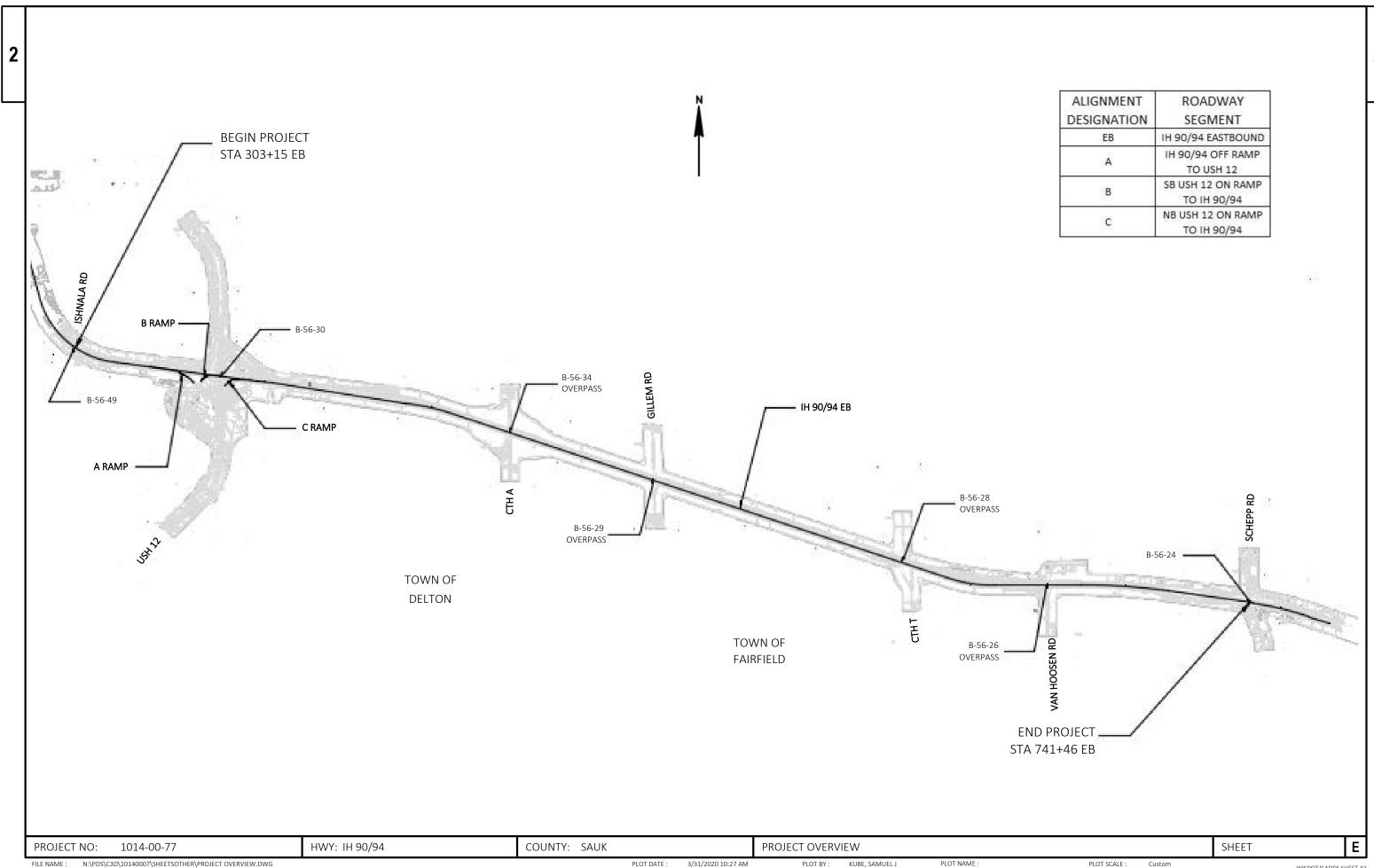


STANDARD ABBREVIATIONS

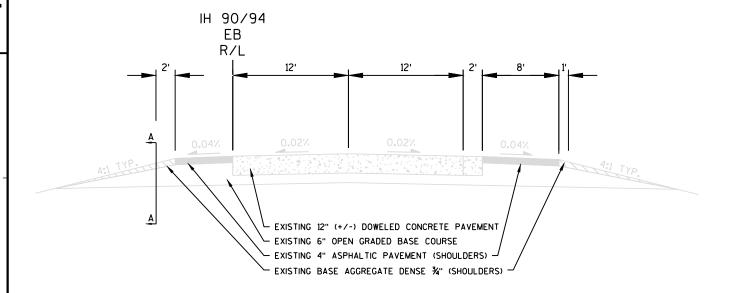
| - | | | |
|-------------------|-------------------------------|------------------|---|
| AC | ACRE | LC. | LONG CHORD |
| AGG | AGGREGATE | LS | LUMPSUM |
| < | ANGLE | M.P. | MARKER POST |
| AE, AEW | APRON ENDWALL | MGAL | 1000 GALLONS |
| ASPH. | ASPHALTIC | N.C. | NORMAL CROWN |
| A.D.T. | AVERAGE DAILY TRAFFIC | N | NORTH |
| A.A.D.T. | ANNUAL AVERAGE DAILY TRAFFIC | NB | NORTHBOUND |
| B.F. | BACK FACE | NOR | NORMAL |
| BM | BENCHMARK | NO. | NUMBER |
| BTWN | BETWEEN | PAV'T | PAVEMENT |
| CTR. | CENTER | P.L.E. | PERMANENT LIMITED EASEMENT |
| C/L | CENTER LINE | P.C. | POINT OF CURVATURE |
| Δ | CENTRAL ANGLE OR DELTA | P.I. | POINT OF INTERSECTION |
| C.E. | COMMERCIAL ENTRANCE | P.T. | POINT OF TANGENCY |
| CONST. | CONSTRUCTION | PCC | PORTLAND CEMENT CONCRETE |
| CMCP | CORRUGATED METAL CULVERT PIPE | P.E. | PRIVATE ENTRANCE |
| CMP | CORRUGATED METAL PIPE | PGL | PROFILE GRADE LINE |
| CO. | COUNTY | P.L. | PROPERTY LINE |
| CTH | COUNTY TRUNK HIGHWAY | R | RADIUS OR RANGE |
| CR. | CREEK | R/L | REFERENCE LINE |
| CABC | CRUSHED AGGREGATE BASE COURSE | R.C.C.P. | REINFORCED CONCRETE CULVERT PIPE |
| CY | CUBIC YARD | REQ'D | REQUIRED |
| CP | CONTROL POINT OR CULVERT PIPE | RT | RIGHT |
| C&G | CURB AND GUTTER | R.H.F. | RIGHT HAND FORWARD |
| D | DEGREE OF CURVE | R/W | RIGHT OF WAY |
| D.H.V. | DESIGN HOURLY VOLUME | RD. | ROAD |
| DIA. | DIAMETER | SHLD. | SHOULDER(S) |
| D.D. | DIRECTIONAL DISTRIBUTION | SHR. | SHRINKAGE |
| DISCH. | DISCHARGE | S | SOUTH |
| DMS | DYNAMIC MESSAGE SIGN | SB | SOUTHBOUND |
| EA | EACH | S.F. | SQUARE FOOT (FEET) |
| E | EAST | SDD | STANDARD DETAIL DRAWING(S) |
| BB | EASTBOUND | STH | STATE TRUNK HIGHWAY |
| ELEC. | ELECTRIC(AL), ELEC. CABLE | STA. | STATION |
| 且., 且 .EV. | | S.E. | SUPERELEVATION |
| ESALS | EQUIVALENT SINGLE AXLE LOADS | S/L | SURVEY LINE |
| EXC. | EXCAVATION | SYM | SYMMETRICAL |
| EXIST | EXISTING | T. | PERCENT TRUCKS |
| F.F. | FACE TO FACE | TEL. | TELEPHONE |
| FERT. | FERTILIZER | TEMP. | TEMPORARY |
| F.E. | FIELD ENTRANCE | T.L.E. | TEMPORARY LIMITED EASEMENT |
| F/L, F.L. | FLOW LINE | T.O.C. | TOP OF CURB |
| GALV. | GALVANIZE | TYP | TYPICAL |
| H.S. | HIGH STRENGTH | UNCL. | UNCLASSIFIED |
| CWT | HUNDRED WEIGHT | U.G. | UNDERGROUND (CABLE) |
| INL | INLET | VAR | VARIABLE |
| INTER. | INTERSECTION | V.C. | VERTICAL CURVE |
| H | INTERSTATE HIGHWAY | V.P.C. | VERTICAL POINT OF CURVATURE |
| JT. | JOINT | V.P.C. V.P.I. | VERTICAL POINT OF CORVATORE VERTICAL POINT OF INTERSECTION |
| LT | LEFT | V.P.I. V.P.T. | VERTICAL POINT OF TANGENCY |
| L.H.F. | LEFT HAND FORWARD | V.P.I. Wt. | WEIGHT |
| L.n.r. L. | LENGTH OF CURVE | W. | WEST |
| L.F. | LINEAR FOOT(FEET) | w WB | WESTBOUND |
| 4.1 . | | *** | 112120012 |
| | | | |

PROJECT NO: 1014-00-77 HWY: IH 90/94 COUNTY: SAUK GENERAL NOTES SHEET: E

FILE NAME : PLOT DATE : PLOT BY : PLOT NAME : PLOT SCALE :

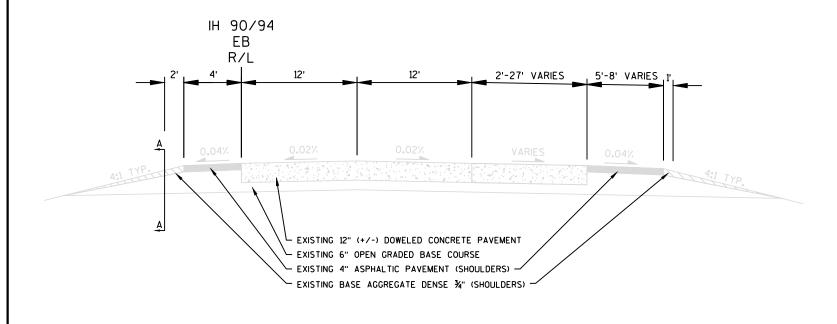






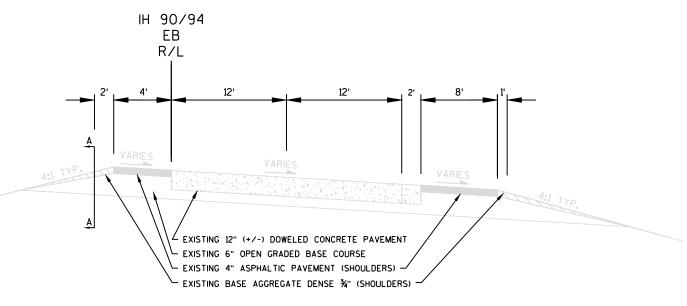
TYPICAL EXISTING MAINLINE TANGENT SECTION

STA 319+50 EB - STA 334+54 EB STA 340+05 EB - STA 353+88 EB STA 381+18 EB - STA 423+29 EB STA 446+36 EB - STA 631+31 EB STA 653+25 EB - STA 680+60 EB STA 716+42 EB - STA 741+46 EB



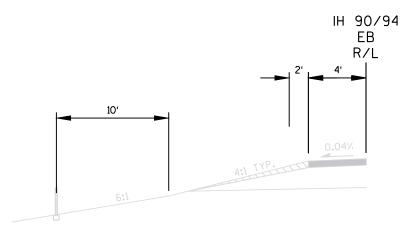
TYPICAL EXISTING SECTION

STA 334+54 EB - 340+05 EB STA 353+88 EB - 355+32 EB STA 357+53 EB - 381+18 EB



TYPICAL EXISTING MAINLINE SUPERELEVATED SECTION

STA 303+15 EB - STA 319+50 EB STA 423+29 EB - STA 446+38 EB STA 631+31 EB - STA 653+25 EB STA 680+60 EB - STA 716+42 EB



SECTION A-A: TYPICAL EXISTING MEDIAN CABLE GUARD

STA 303+95 EB - STA 352+55 EB STA 358+70 EB - STA 385+55 EB STA 426+45 EB - STA 463+75 EB STA 656+15 EB - STA 669+20 EB

> TO SCALE NOT

SHEET

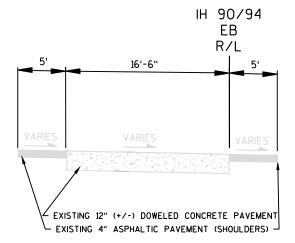
PROJECT NO:1014-00-77 HWY: IH 90/94 COUNTY: SAUK

TYPICAL SECTIONS

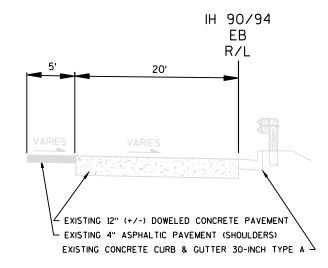
PLOT NAME :

WISDOT/CADDS SHEET 42

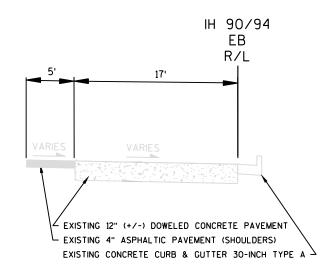
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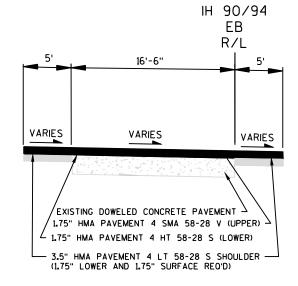
TYPICAL EXISTING A RAMP SECTION
STA 340+05 A - STA 344+70 A



TYPICAL EXISTING B RAMP SECTION
STA 349+80 B - STA 353+88 B

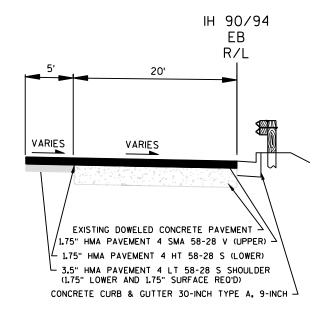


TYPICAL EXISTING C RAMP SECTION
STA 356+37 C - STA 363+53 C

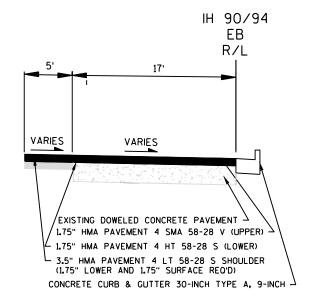


TYPICAL PROPOSED A RAMP SECTION

STA 340+05 A - STA 344+70 A

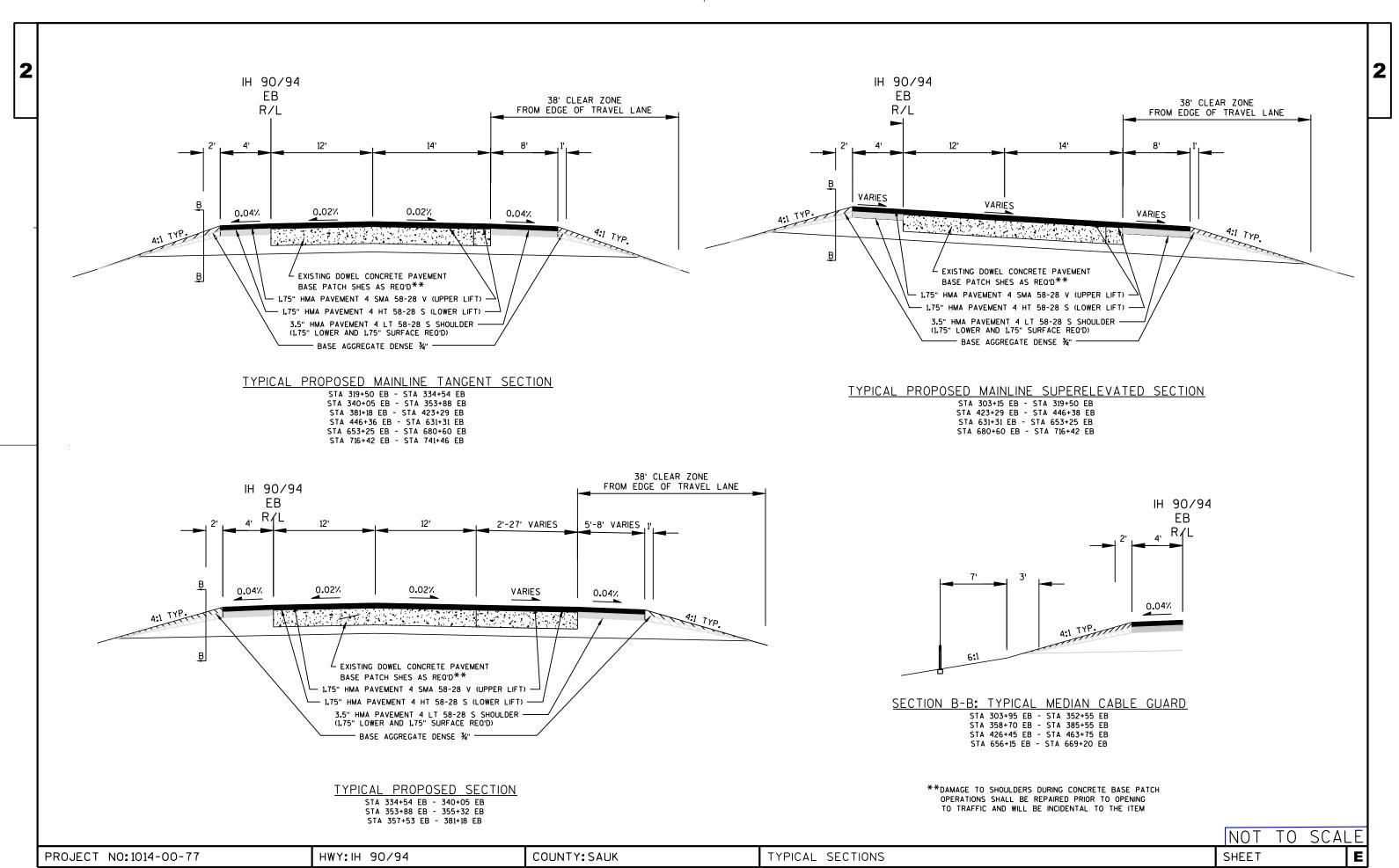


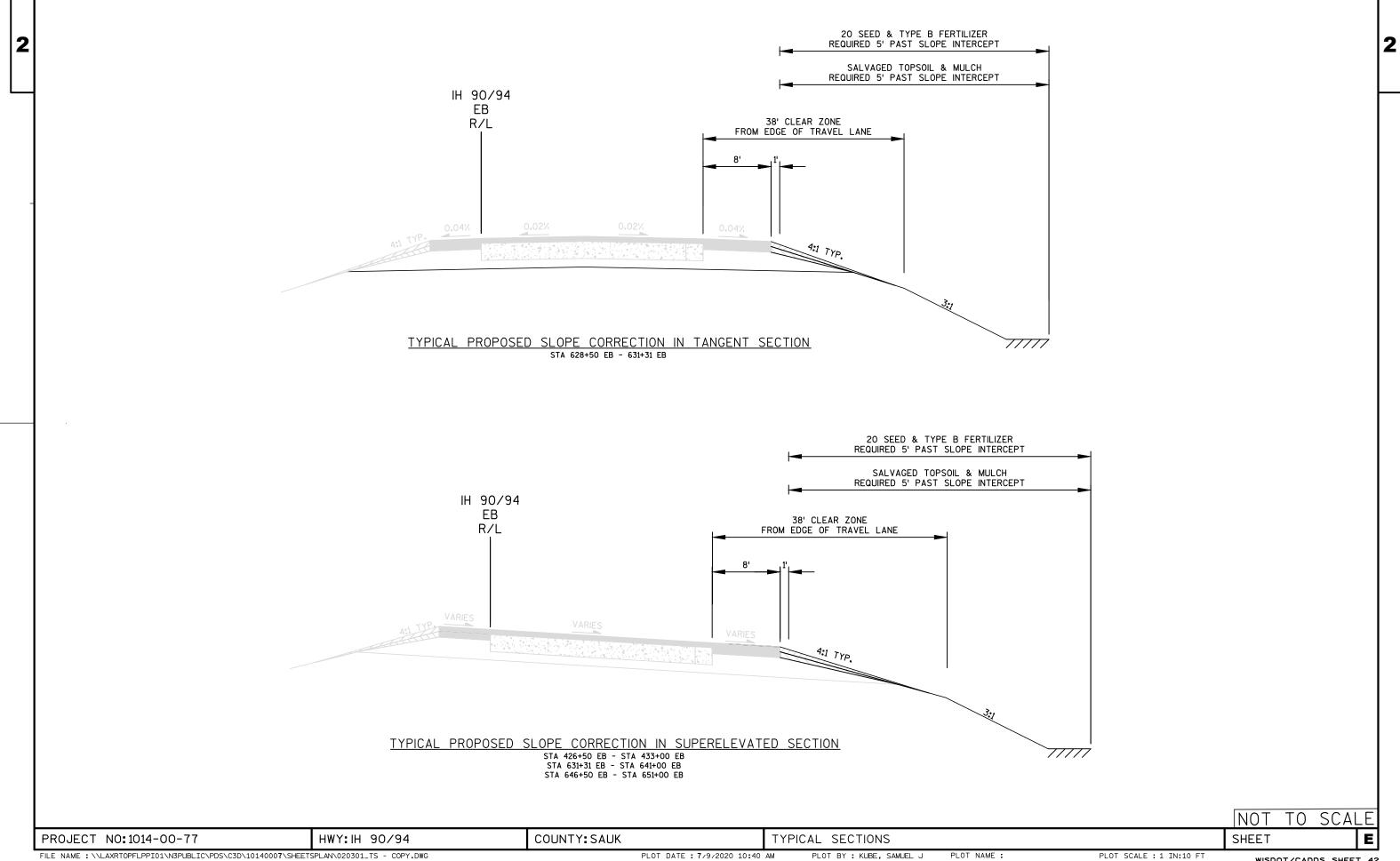
TYPICAL PROPOSED B RAMP SECTION
STA 349+80 B - STA 353+88 B



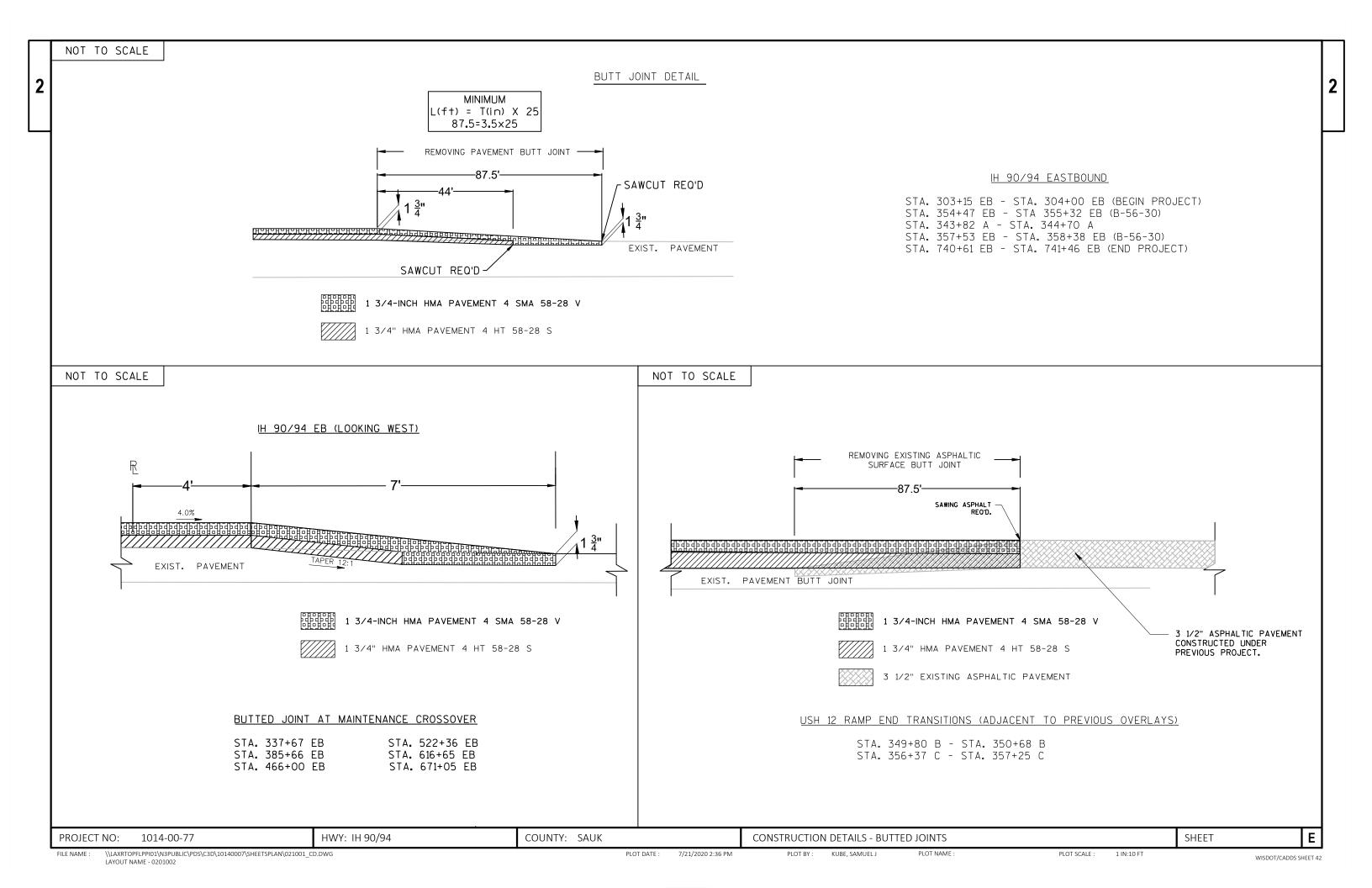
TYPICAL PROPOSED C RAMP SECTION
STA 356+37 C - STA 363+53 C

PROJECT NO:1014-00-77 HWY: IH 90/94 COUNTY: SAUK TYPICAL SECTIONS SHEET **E**

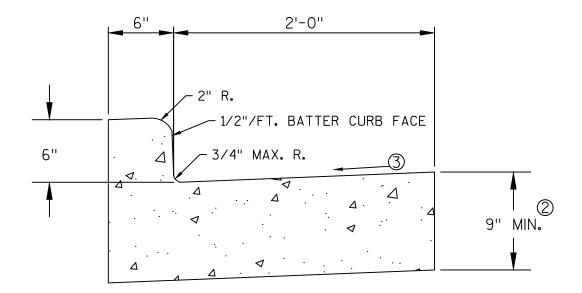




WISDOT/CADDS SHEET 42



CONCRETE CURB & GUTTER 30-INCH TYPE $A_{\bullet}^{\textcircled{1}}$ 9-INCH



GENERAL NOTES

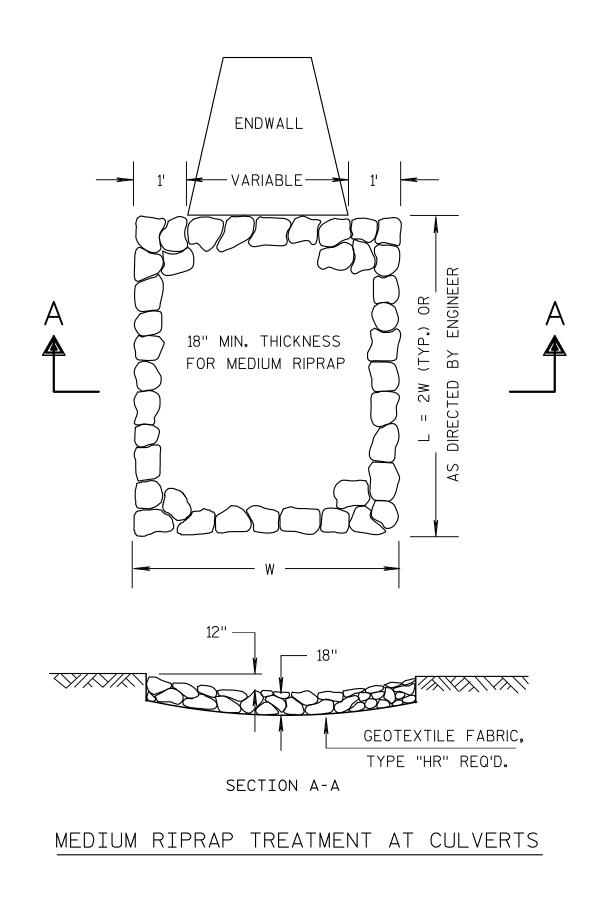
DETAILS OF CONSTUCTION AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS. THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

- 1 TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPE A.
- THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (3) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.



PROJECT NO:1014-00-77

HWY: IH 90/94

COUNTY: SAUK

CONSTRUCTION DETAILS

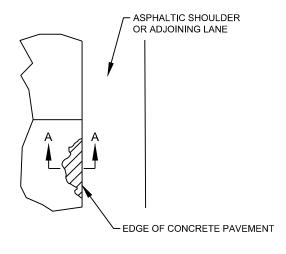
SHEET

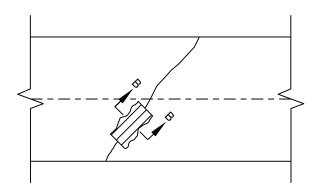
PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

E

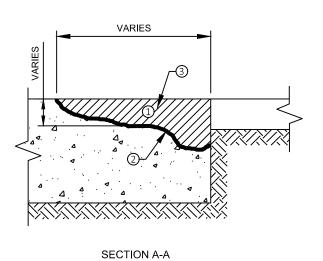
PLOT NAME :

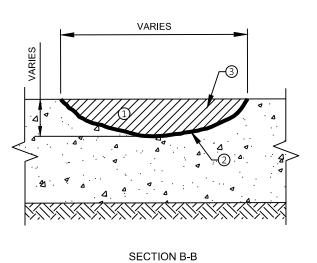




PLAN VIEW

PLAN VIEW





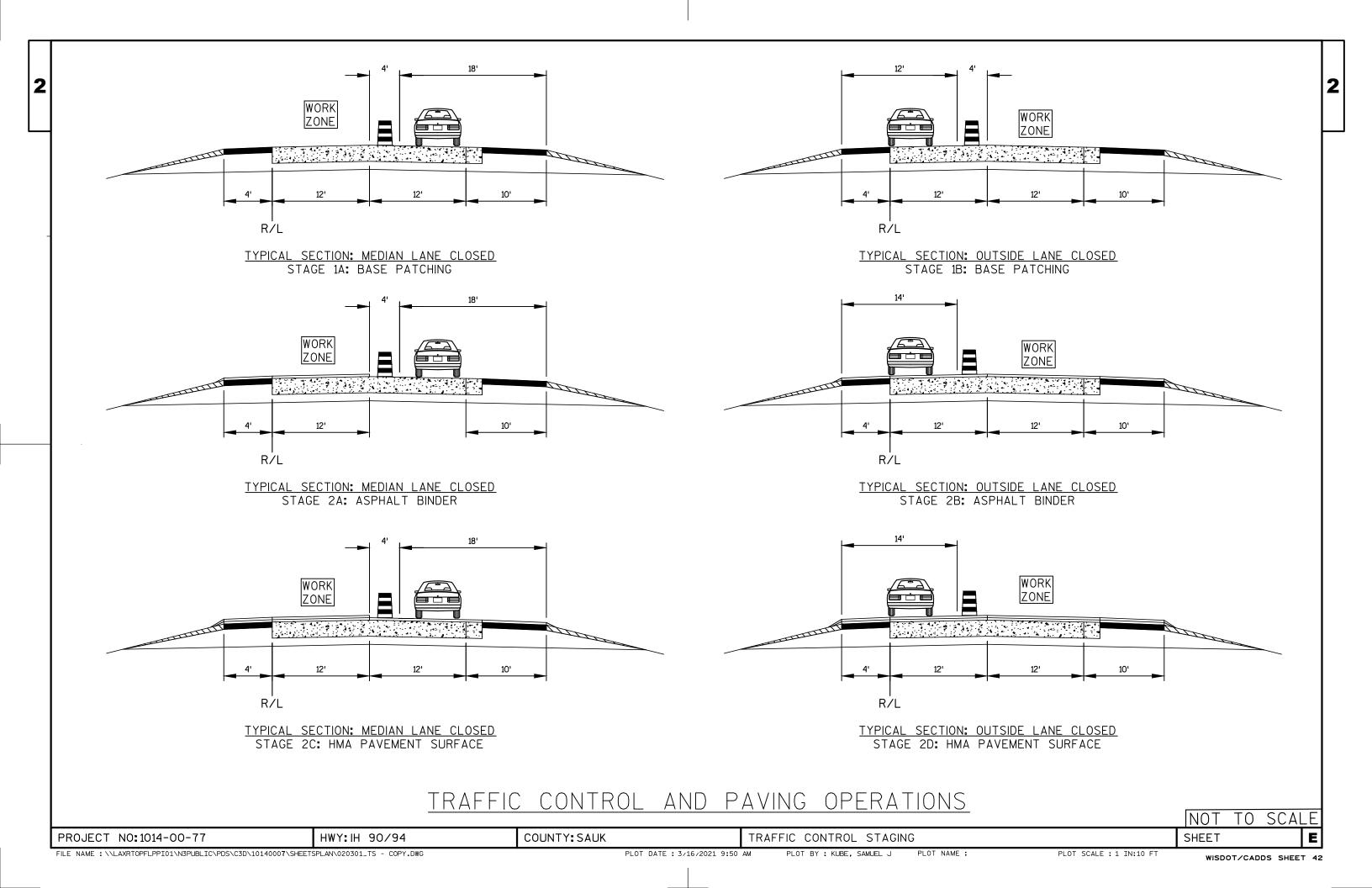
① REMOVE ALL UNSOUND AND DETERIORATED MATERIAL

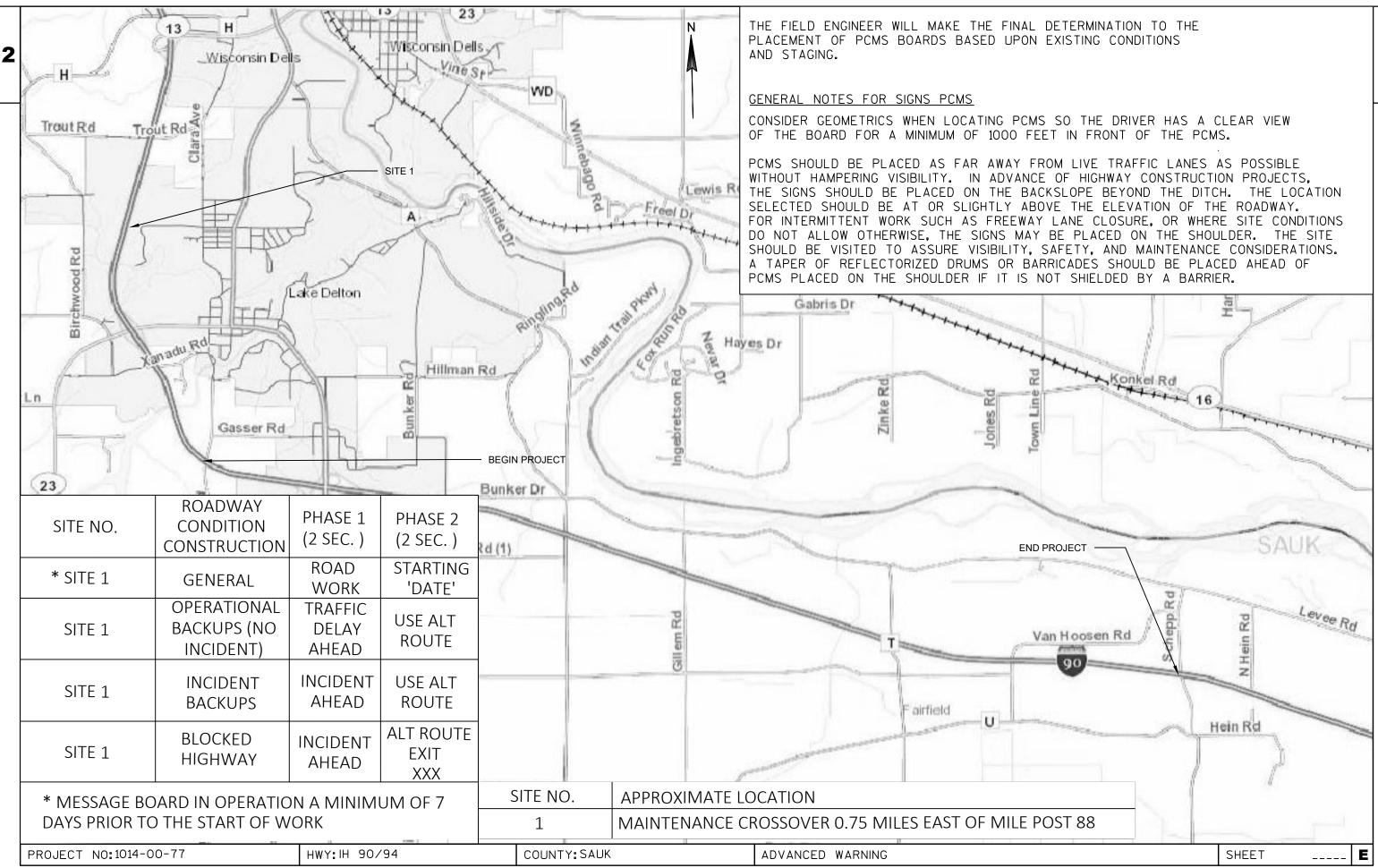
BLOW OUT REPAIR AREAS WITH 80 PSI MINIMUM COMPRESSED AIR - TACK COAT REQUIRED - PAID FOR UNDER CONCRETE JOINT AND CRACK CLEANING

3 HMA PAVEMENT SURFACE

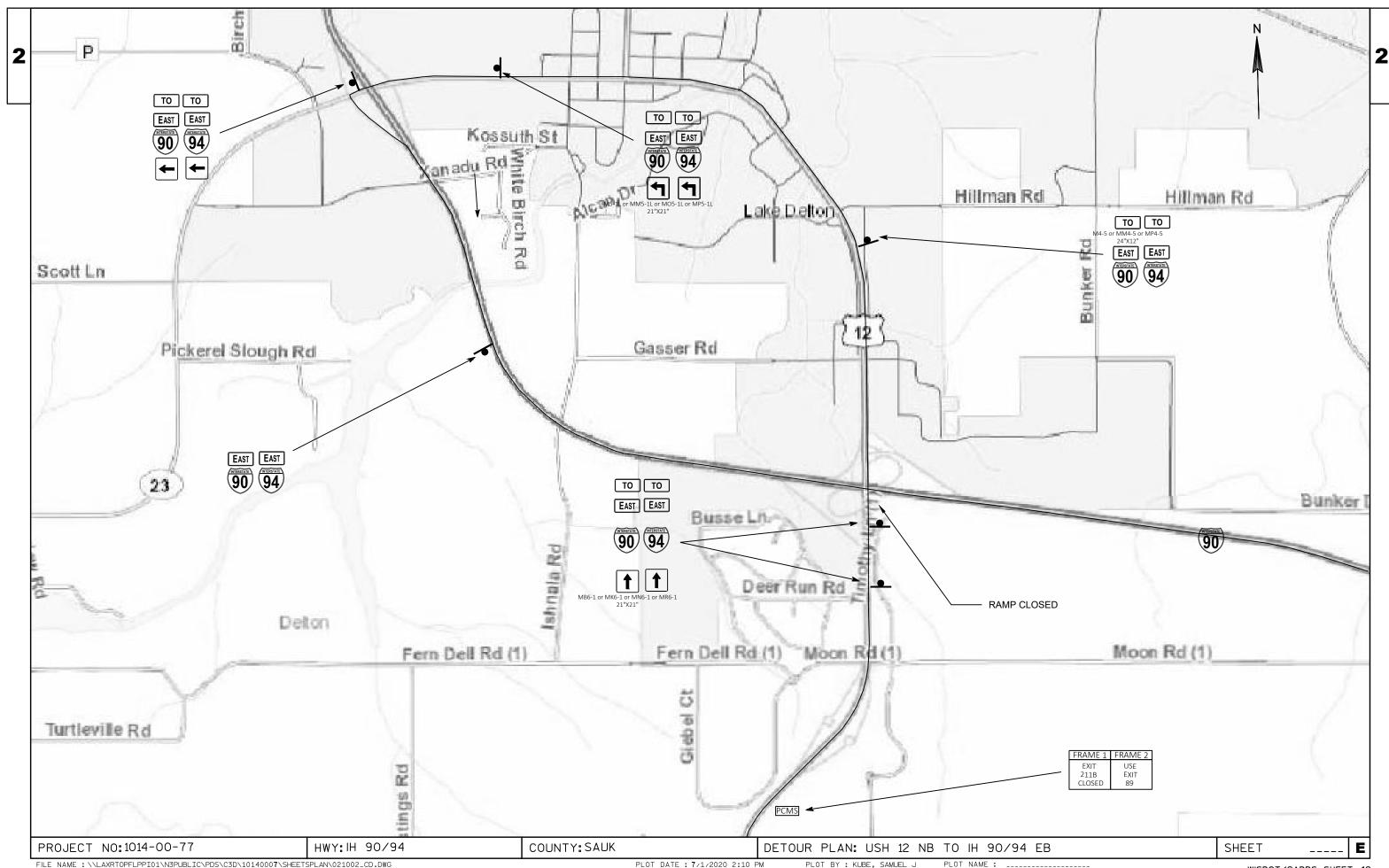
CONCRETE JOINT AND CRACK CLEANING

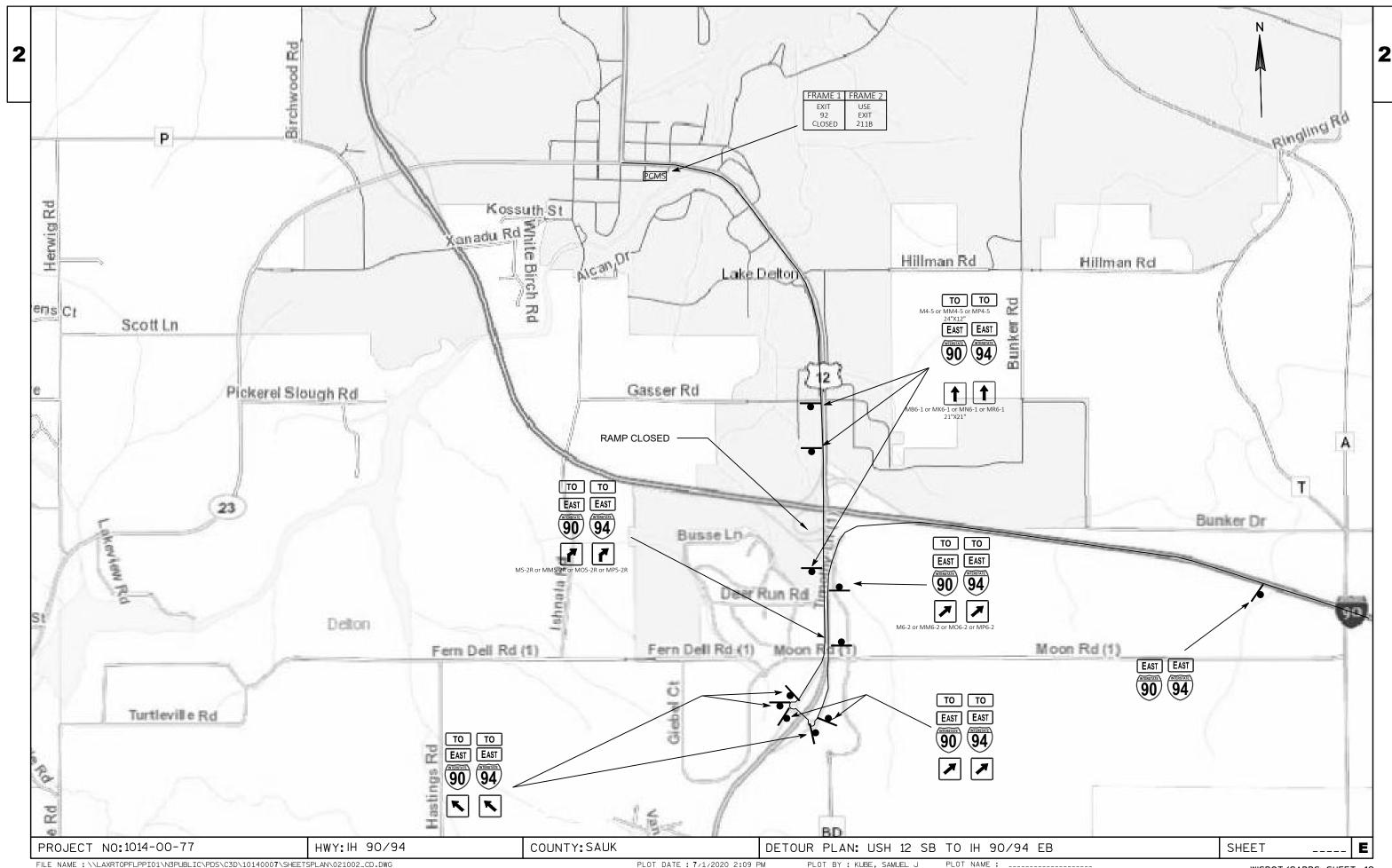
Ε HWY: IH 90/94 COUNTY: SAUK CONSTRUCTION DETAILS - CONCRETE JOINT AND CRACK CLEANING PROJECT NO: 1014-00-77 SHEET PLOT DATE : \\LAXRTOPFLPPI01\N3PUBLIC\PD\$\C3D\10140007\\$HEET\$PLAN\021001_CD.DWG 7/22/2020 4:23 PM PLOT BY: KUBE, SAMUEL J PLOT NAME : PLOT SCALE :

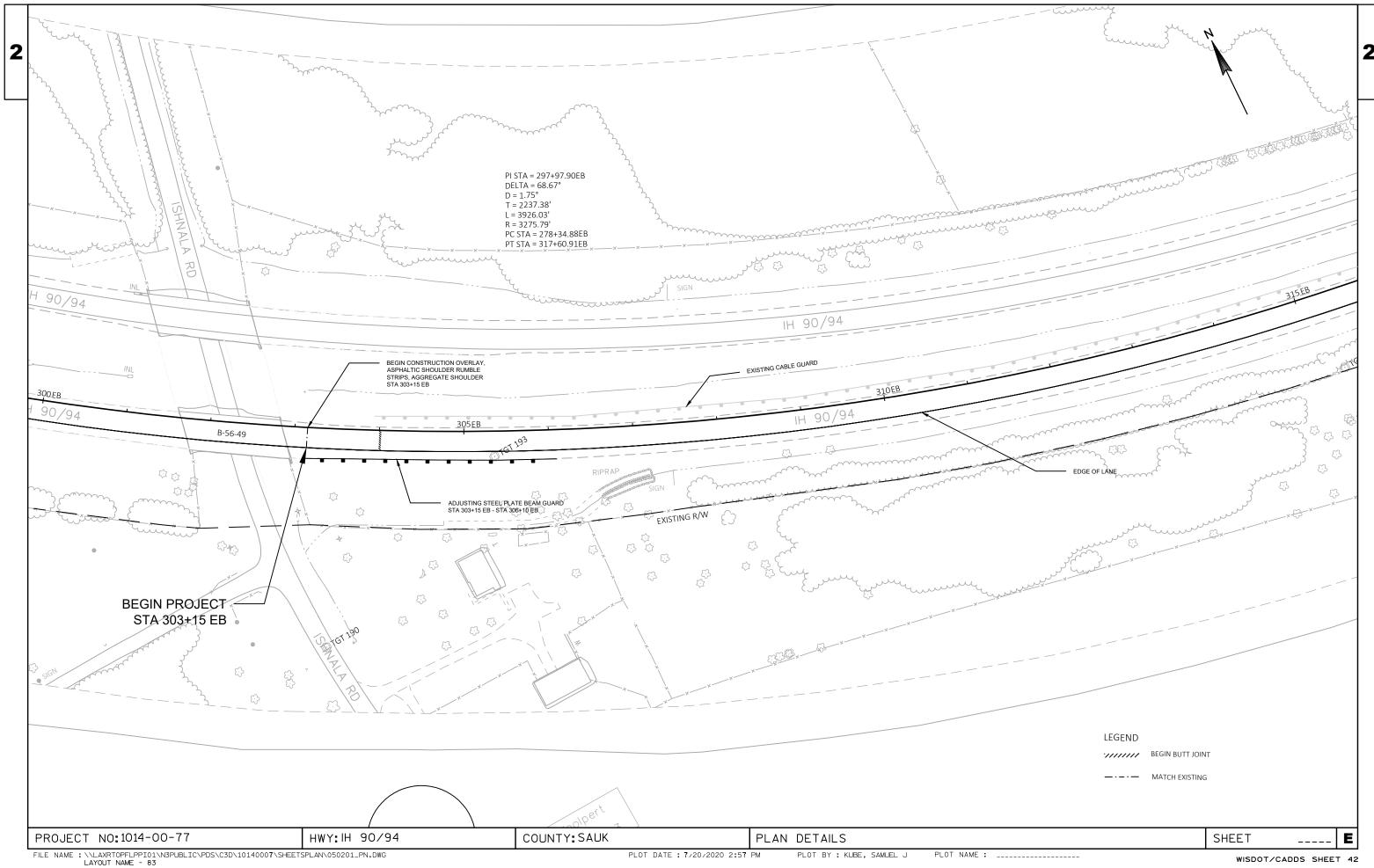


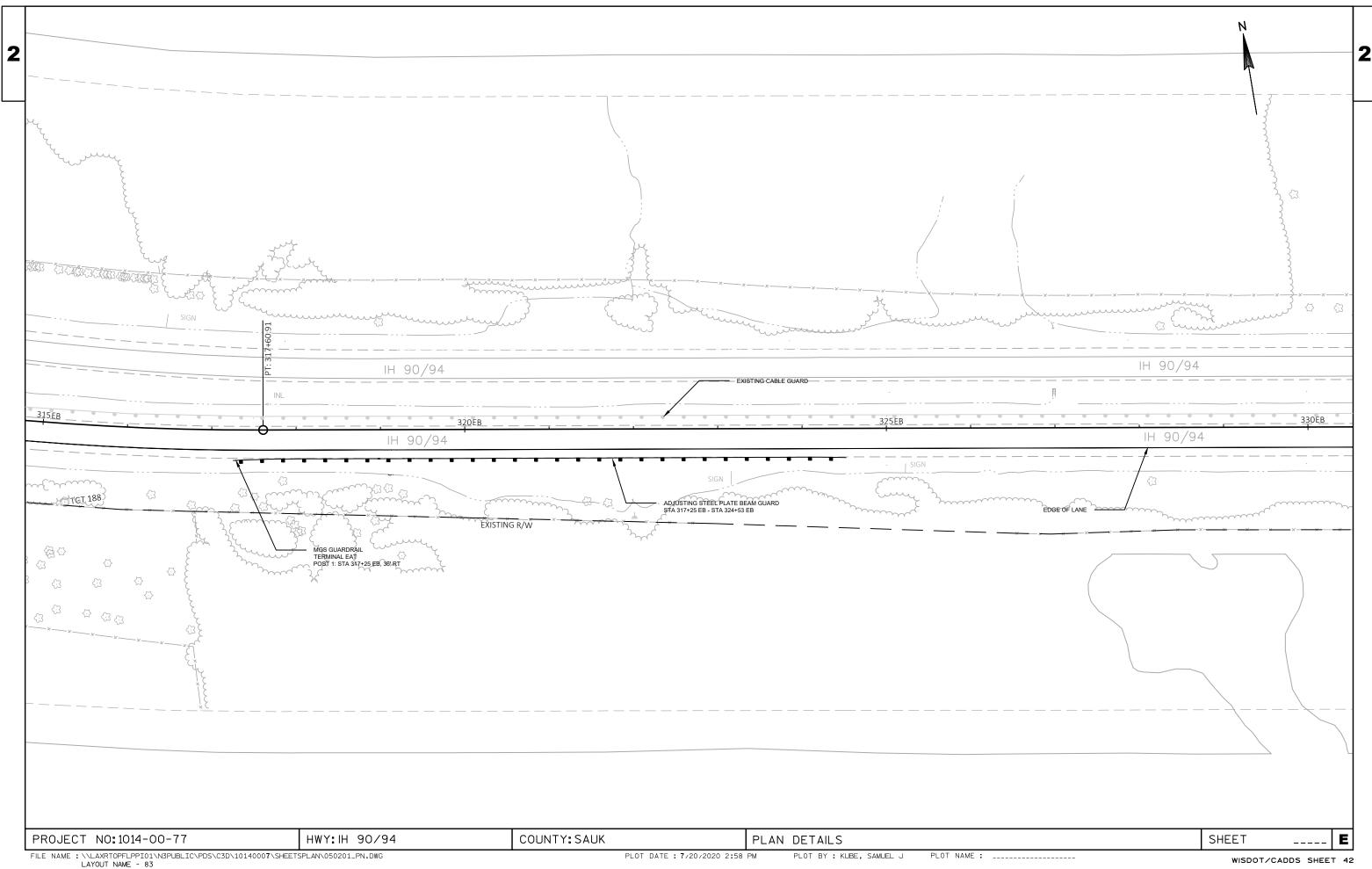


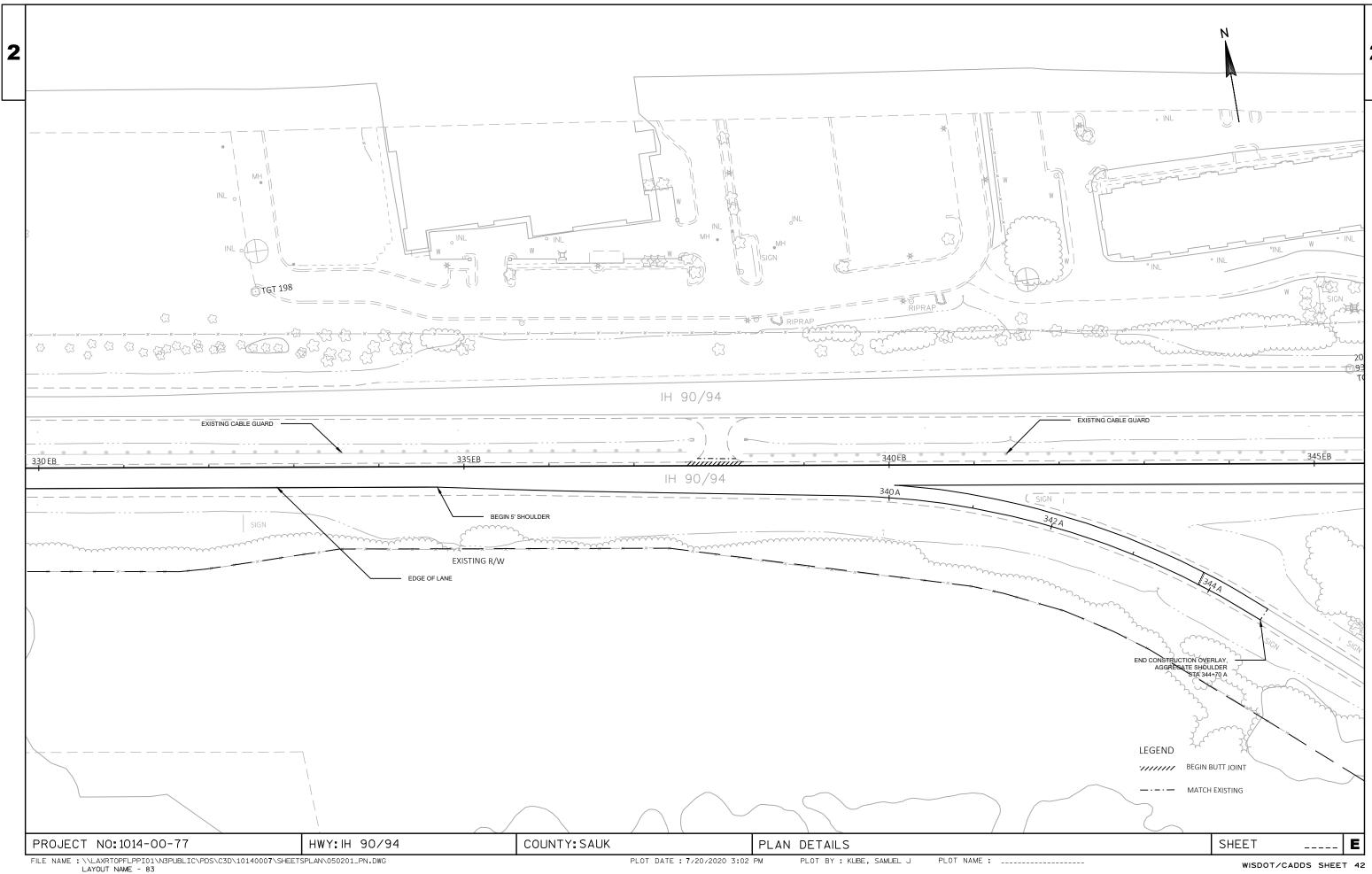


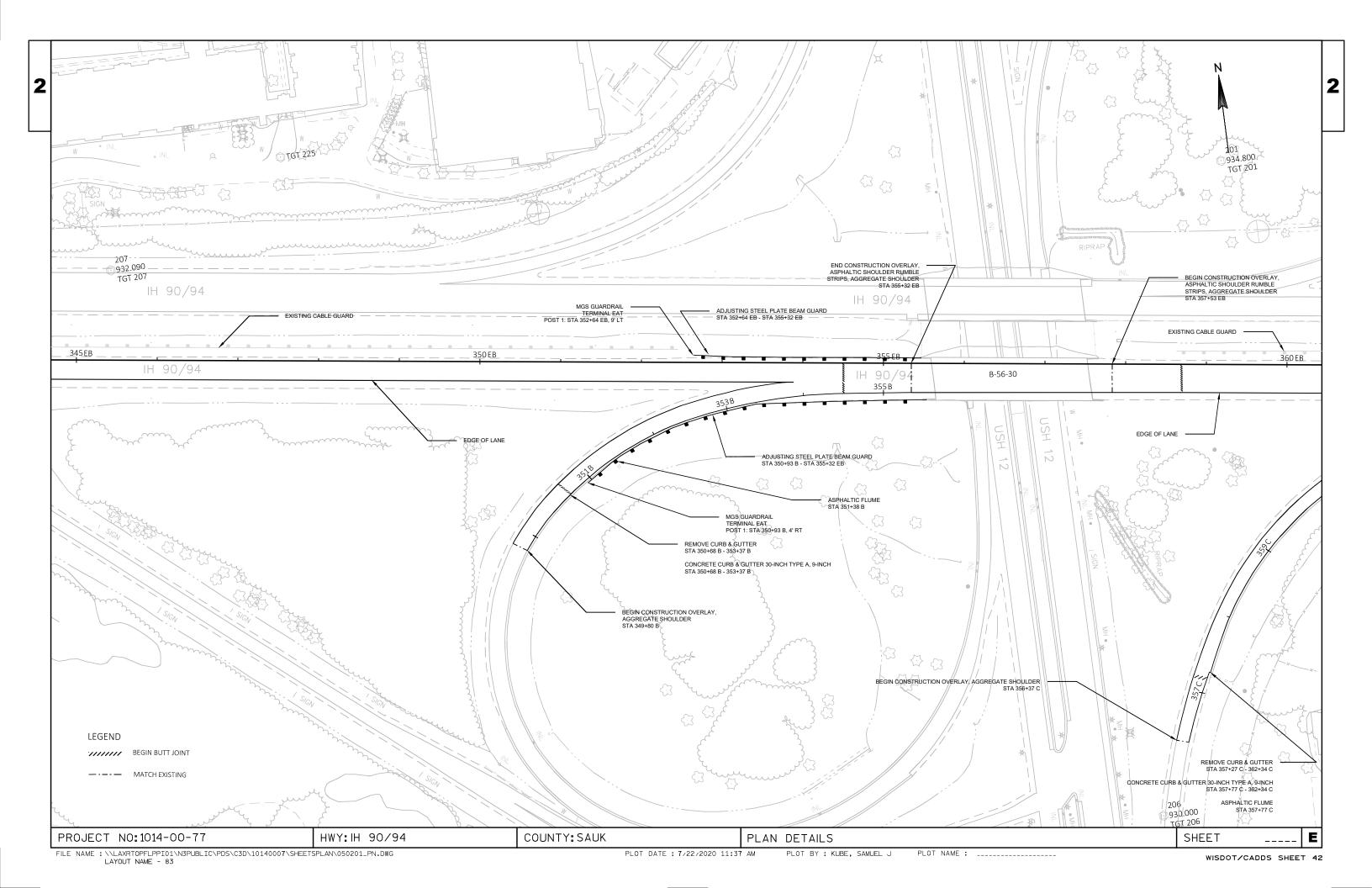


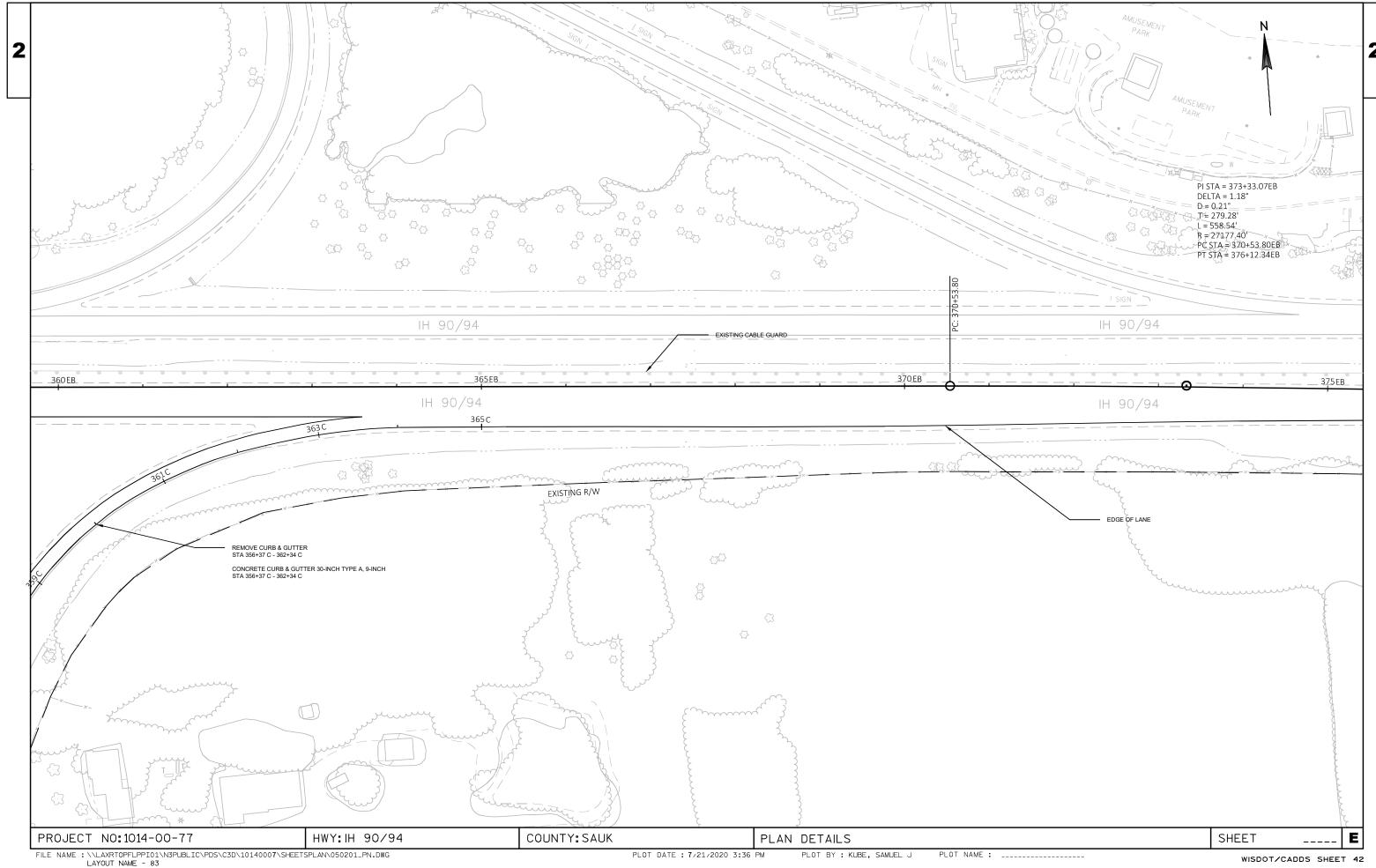


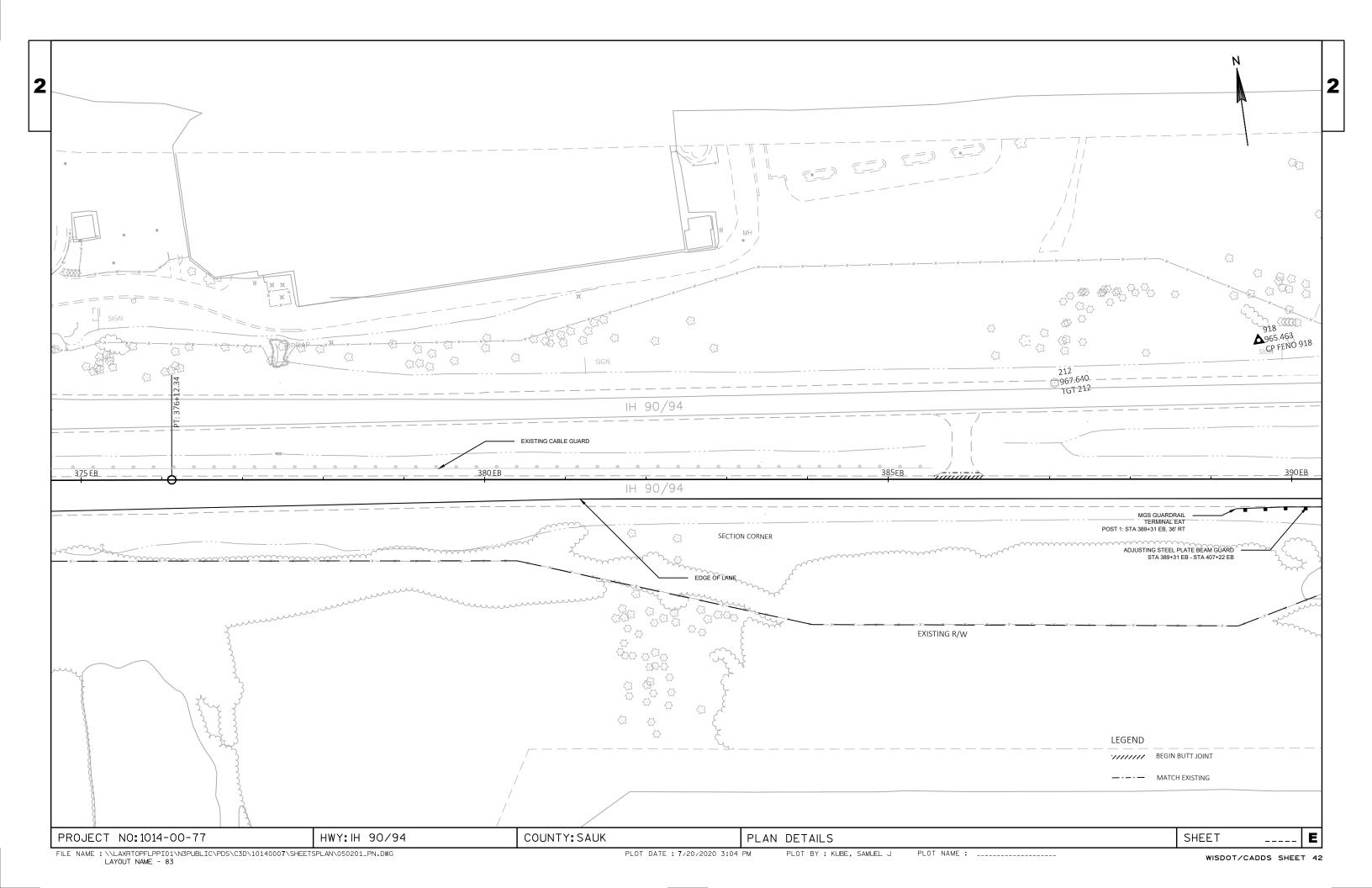


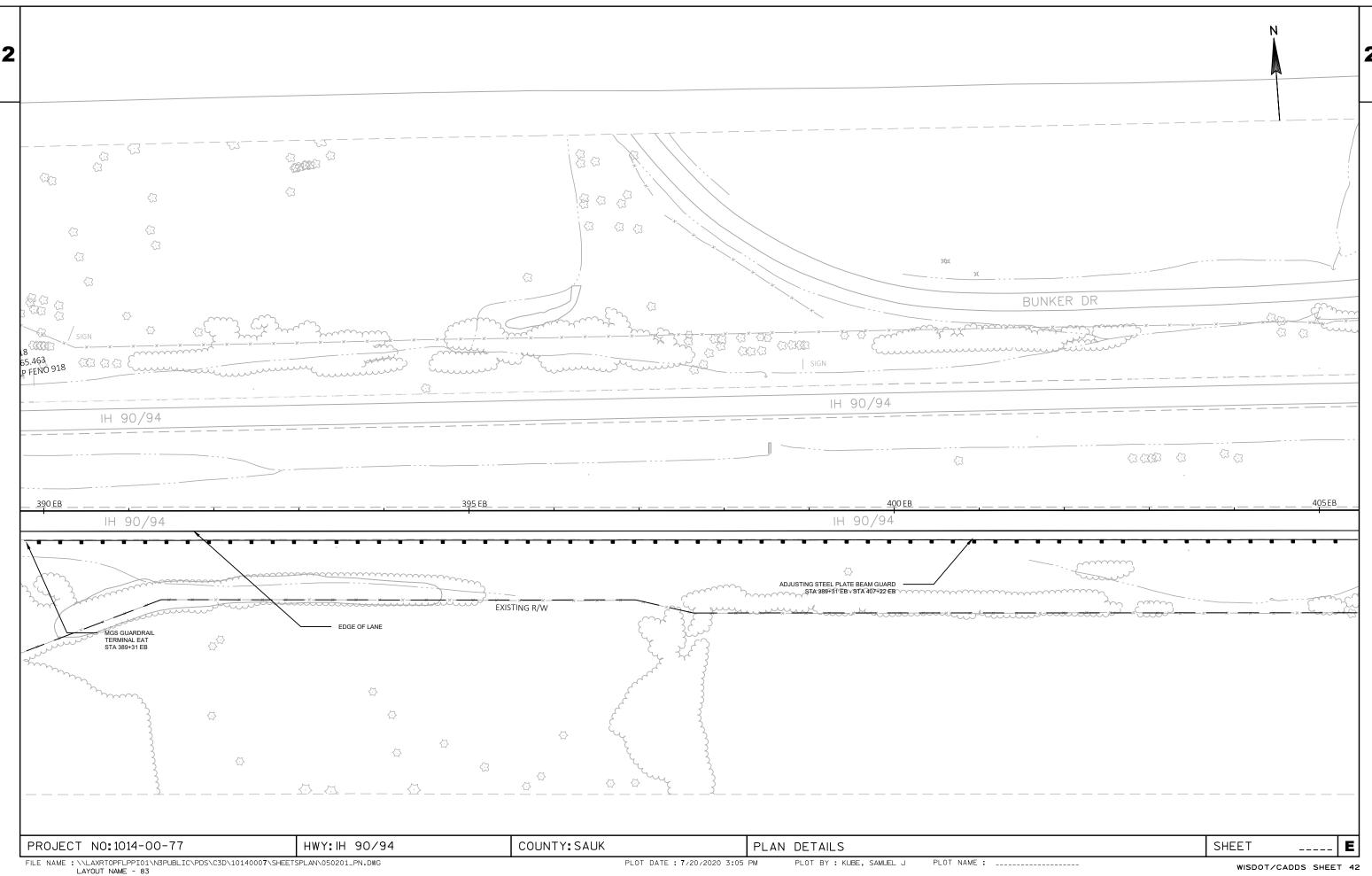


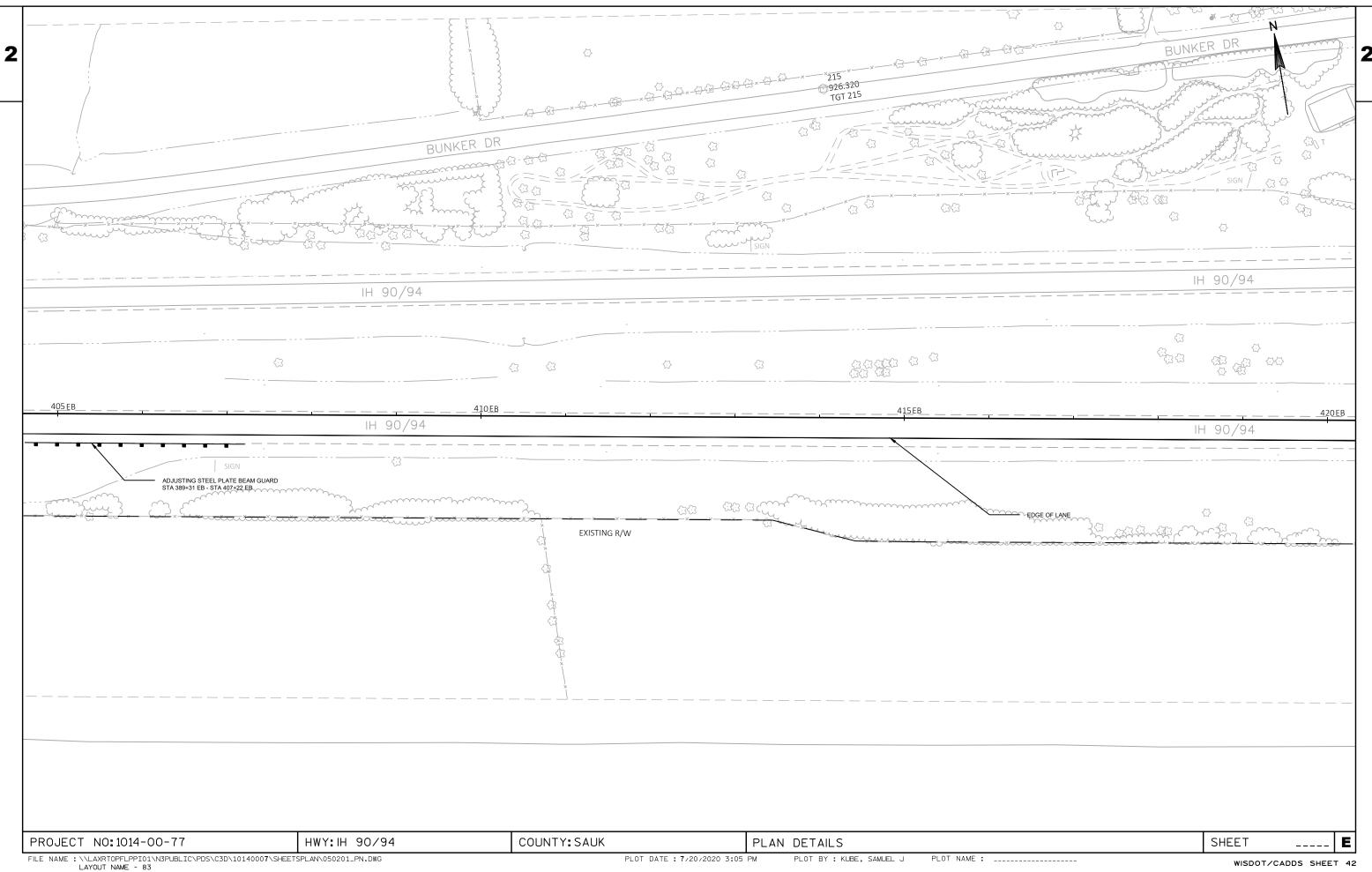


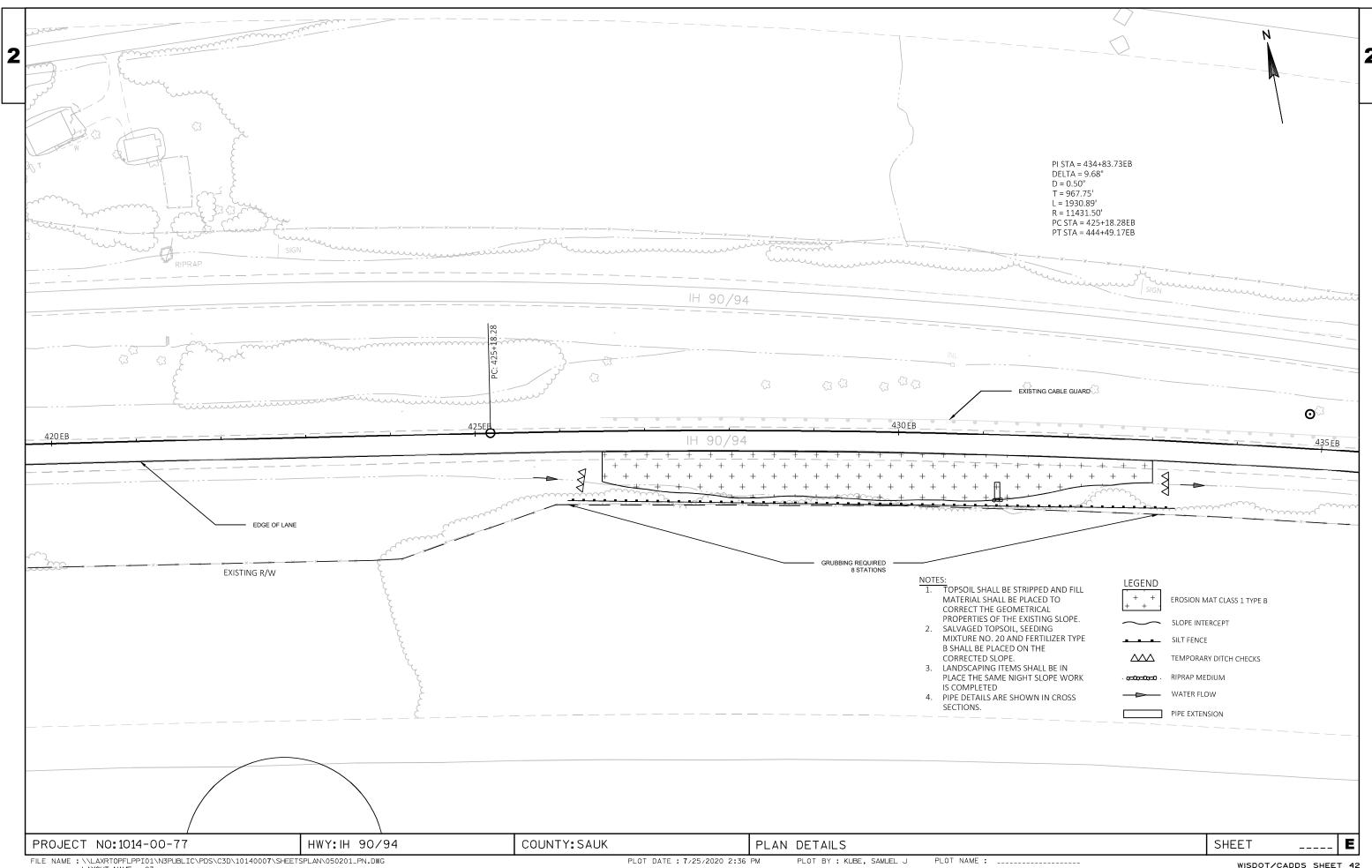


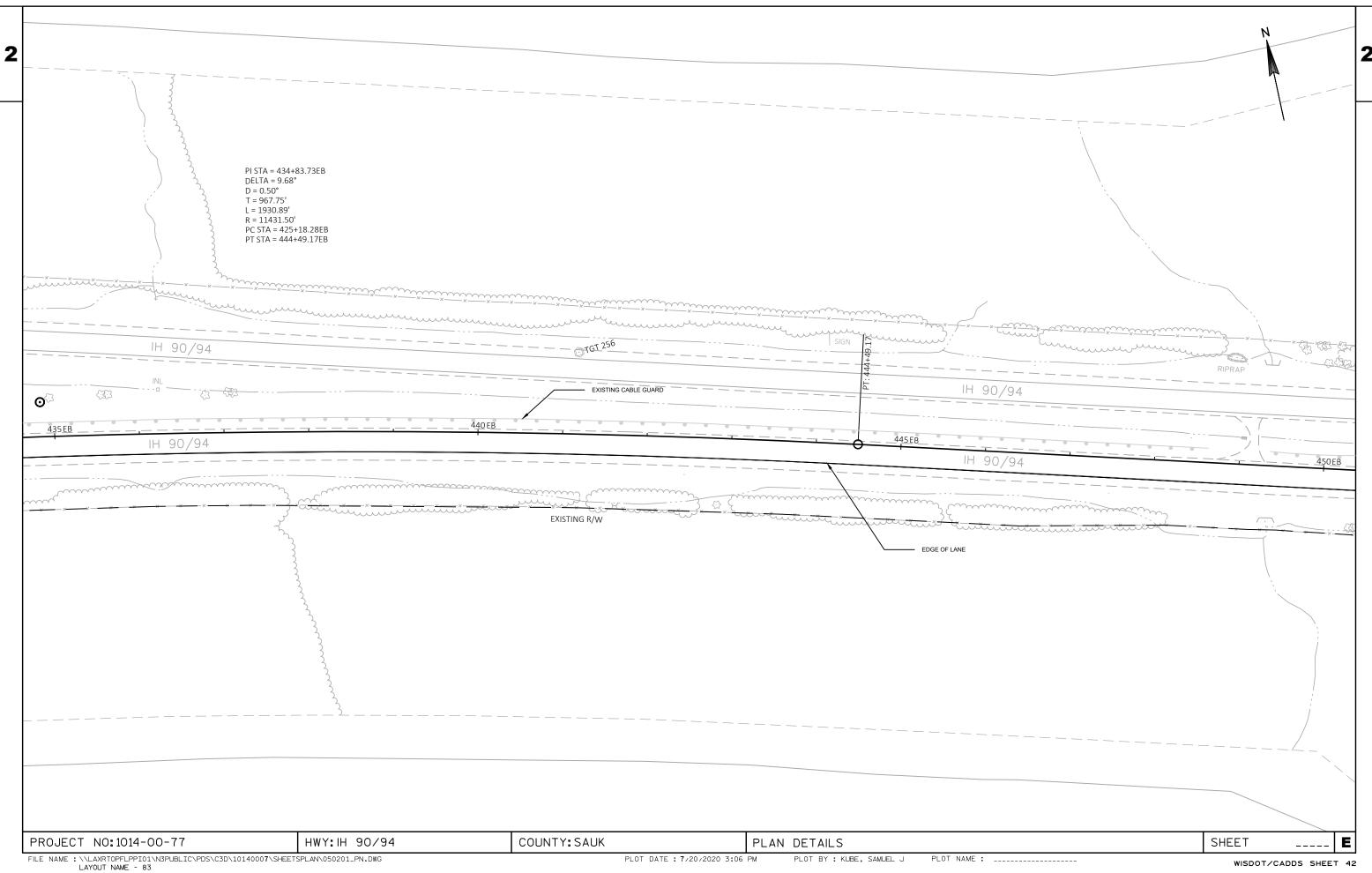


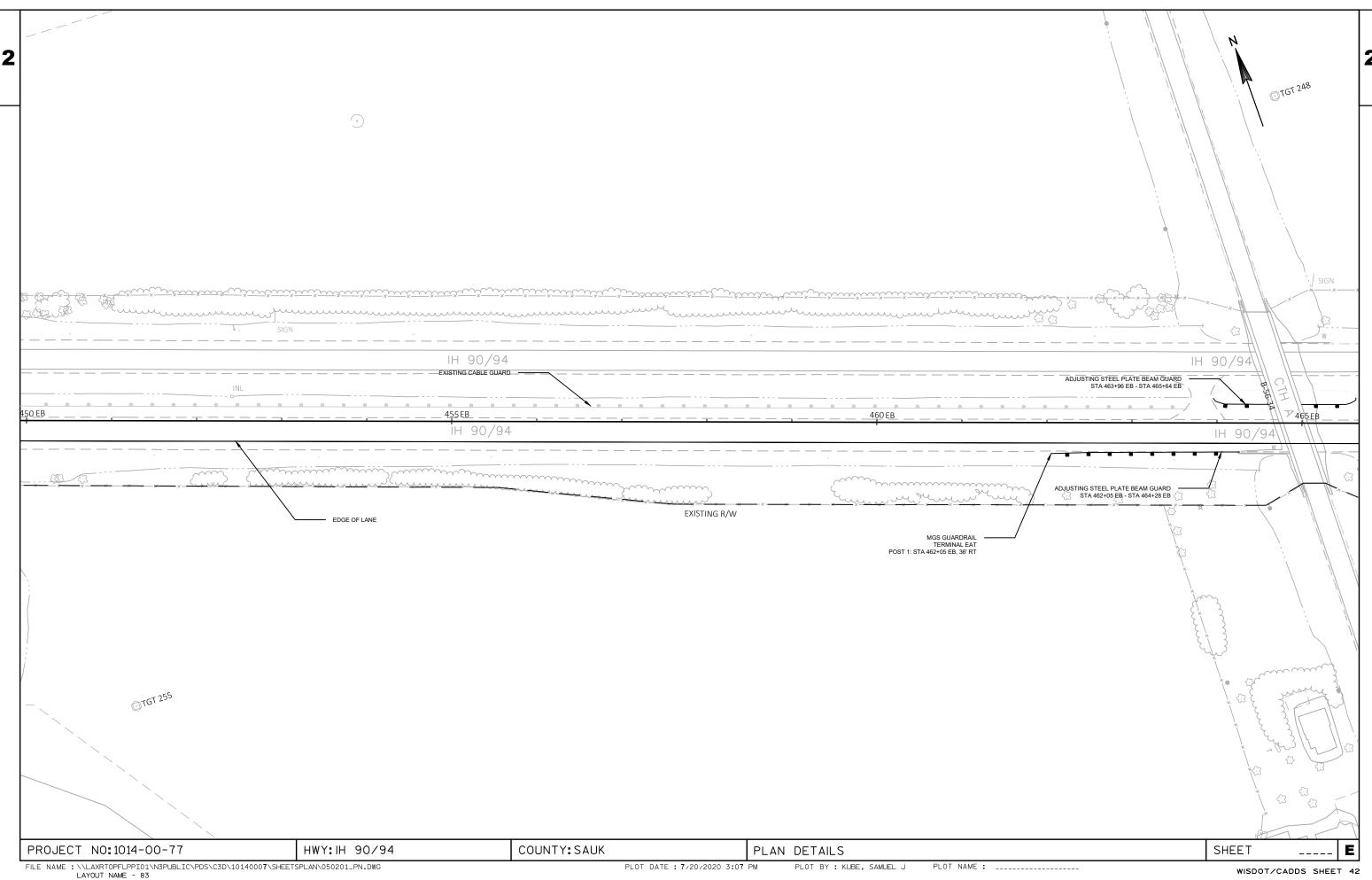


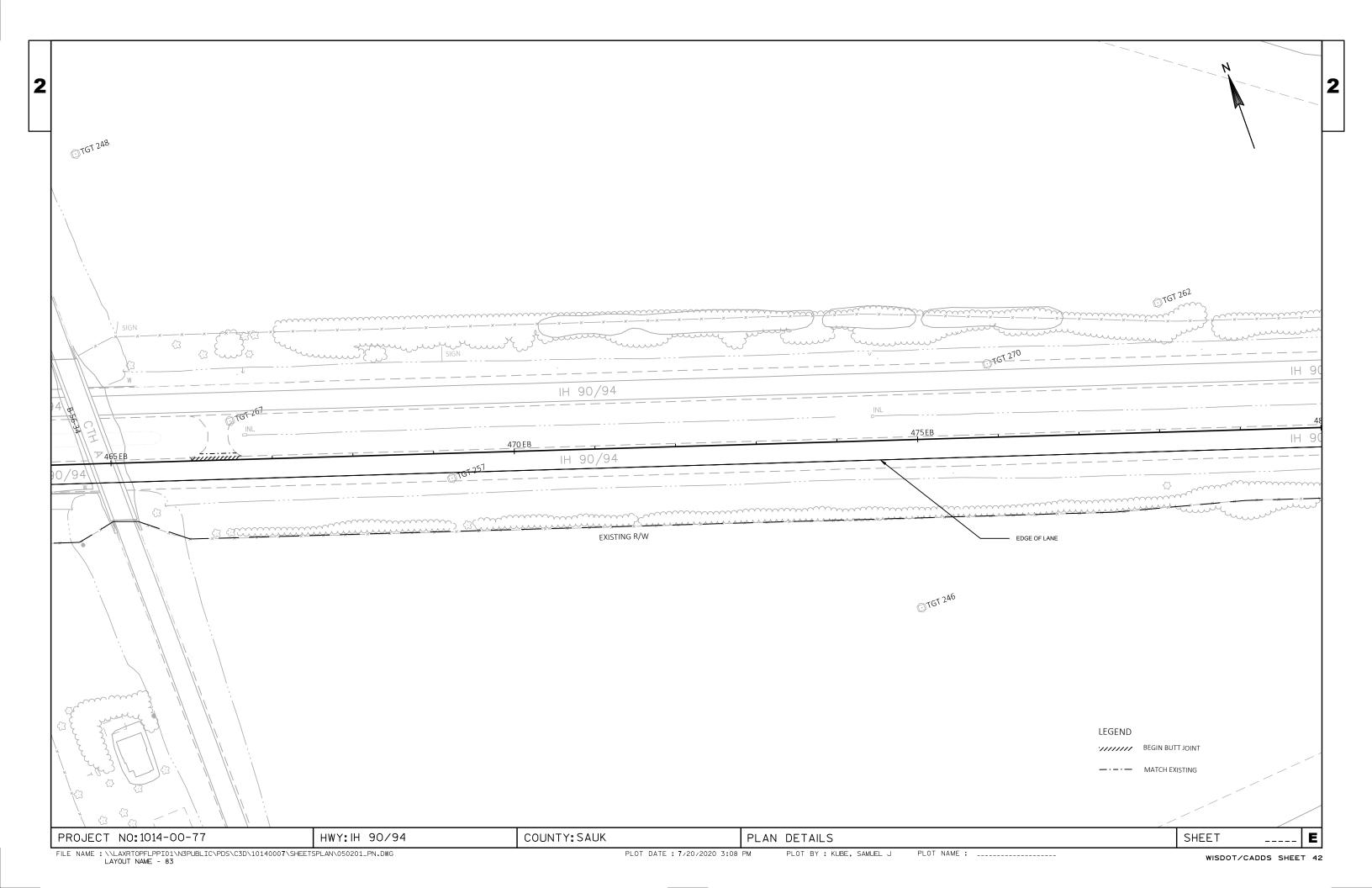


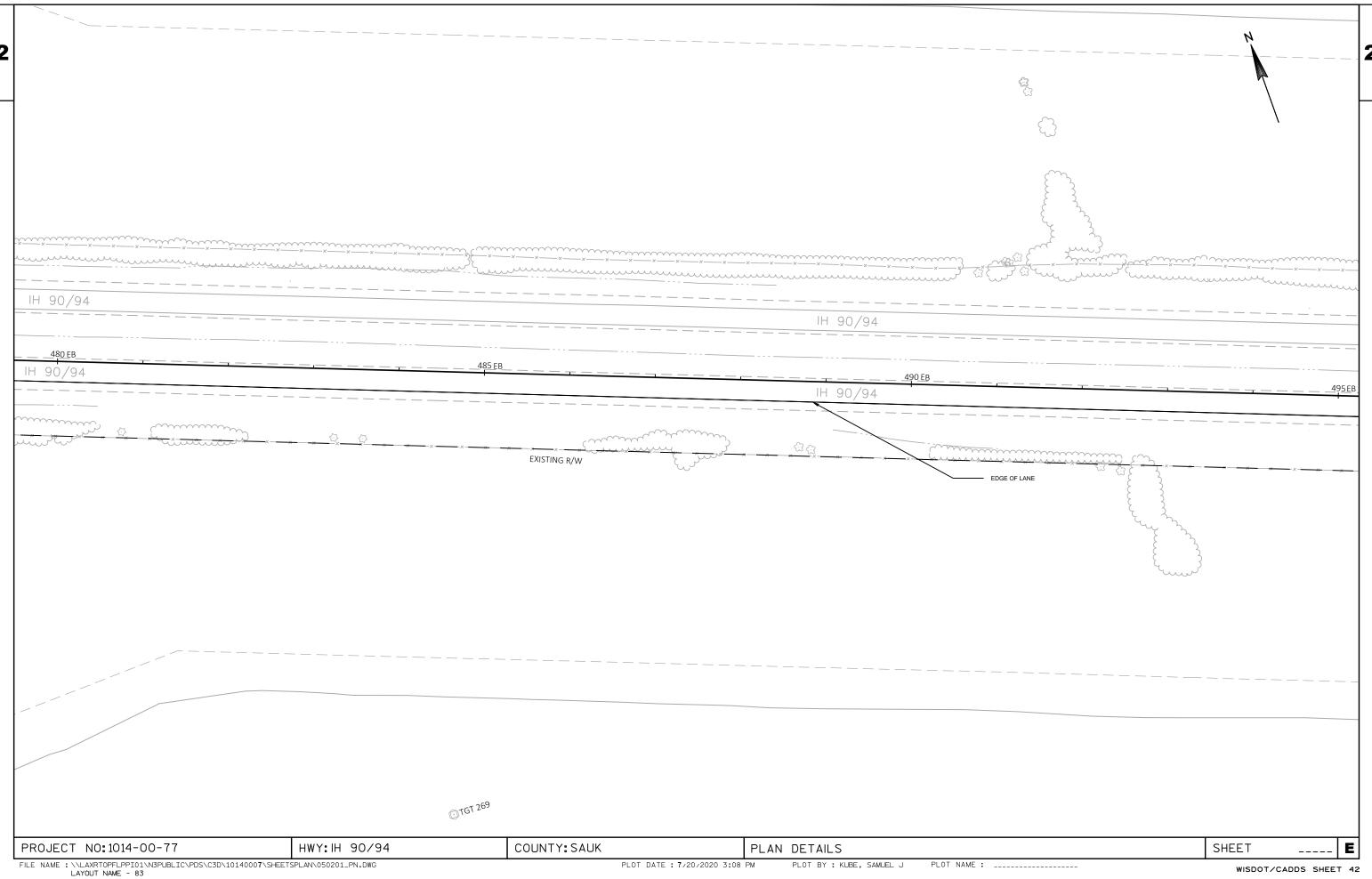


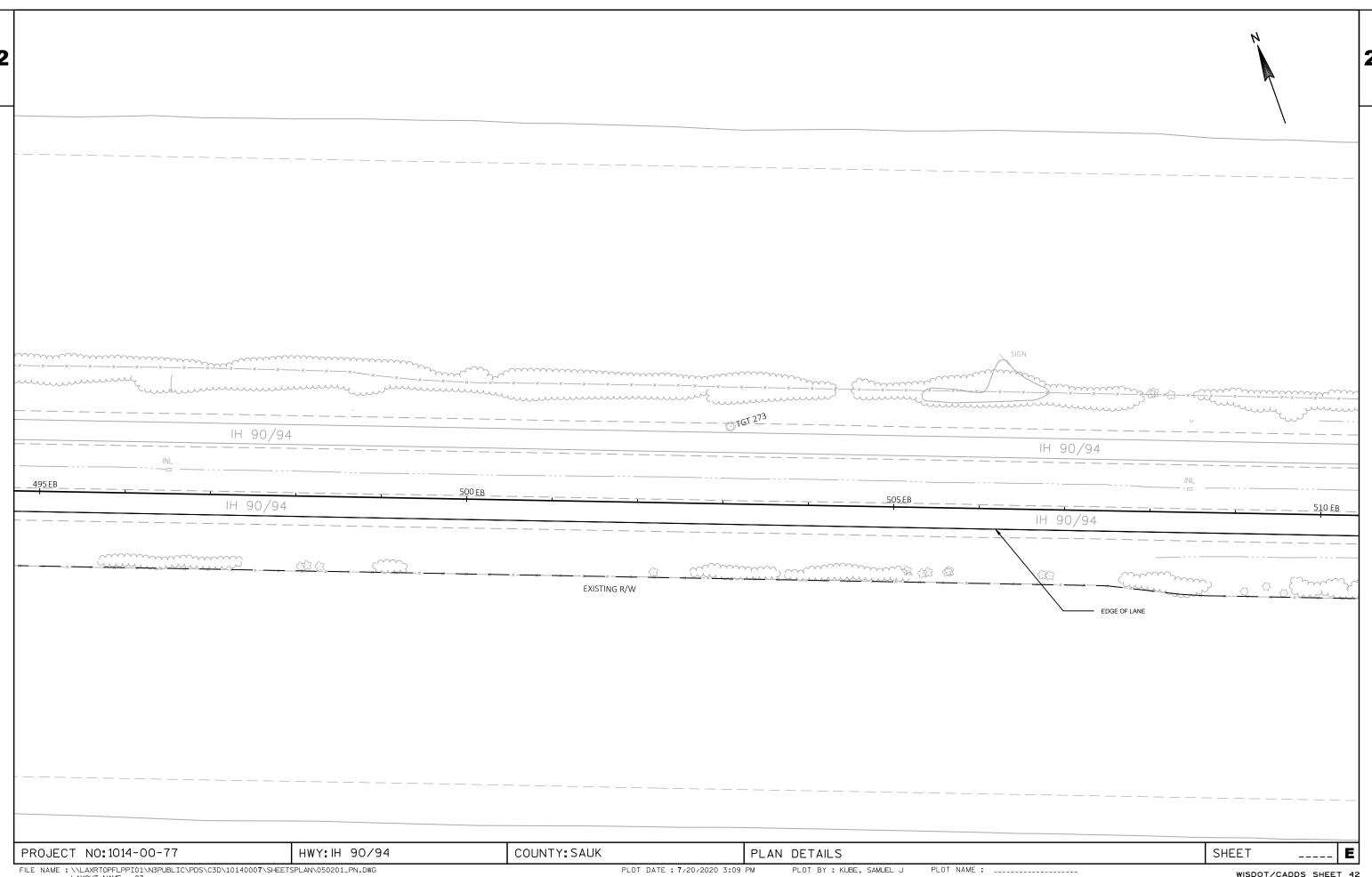


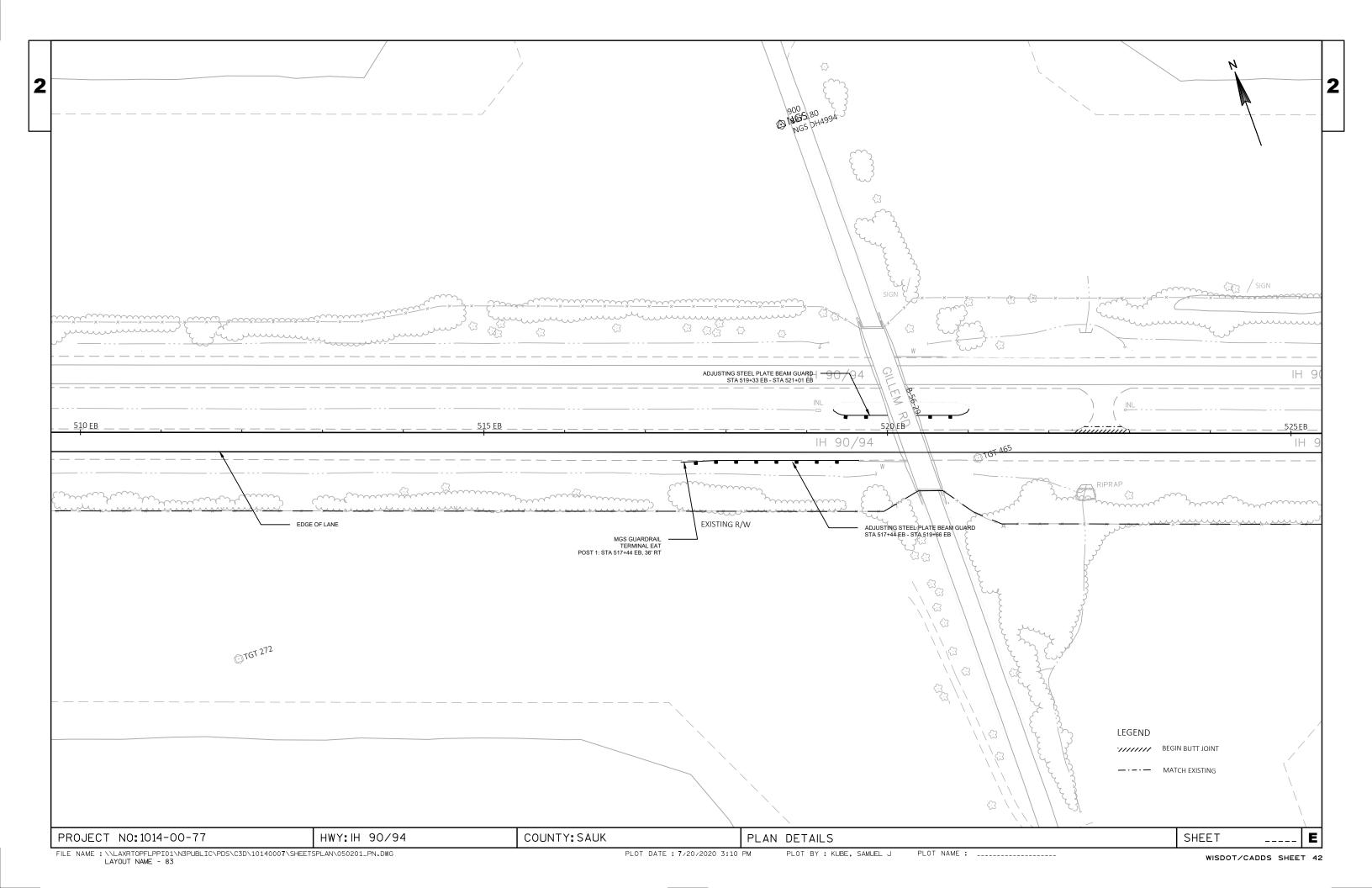


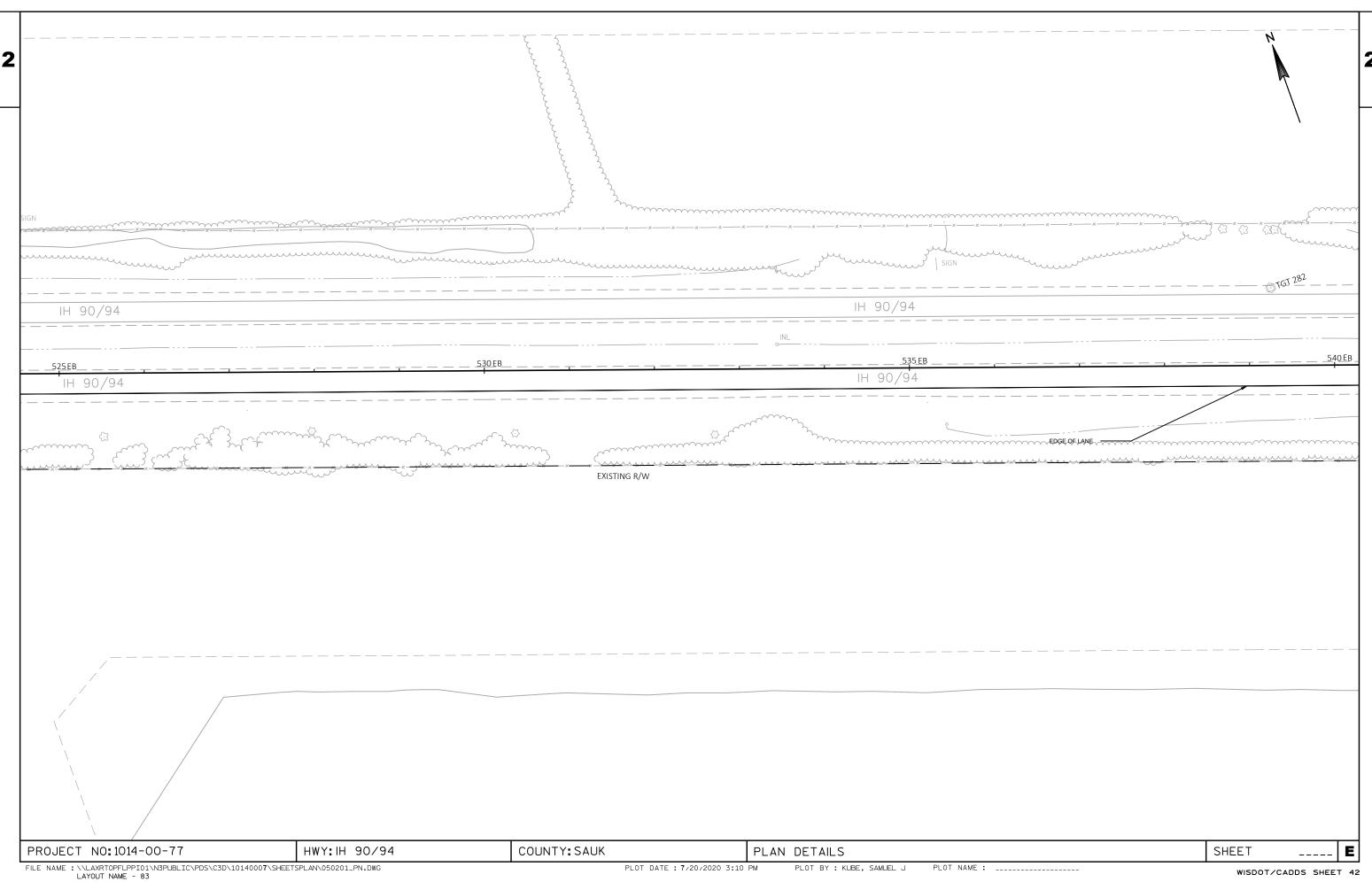


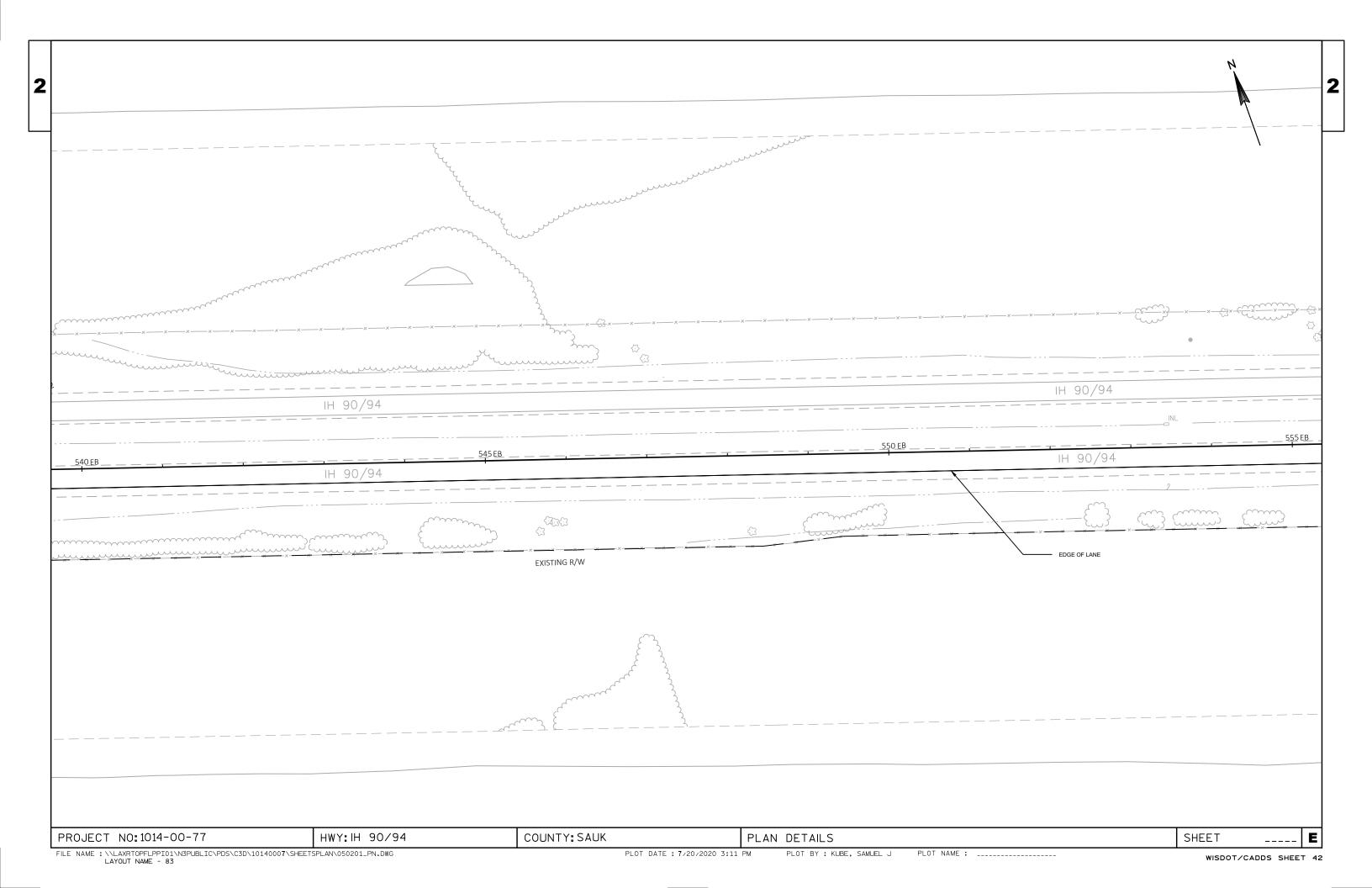


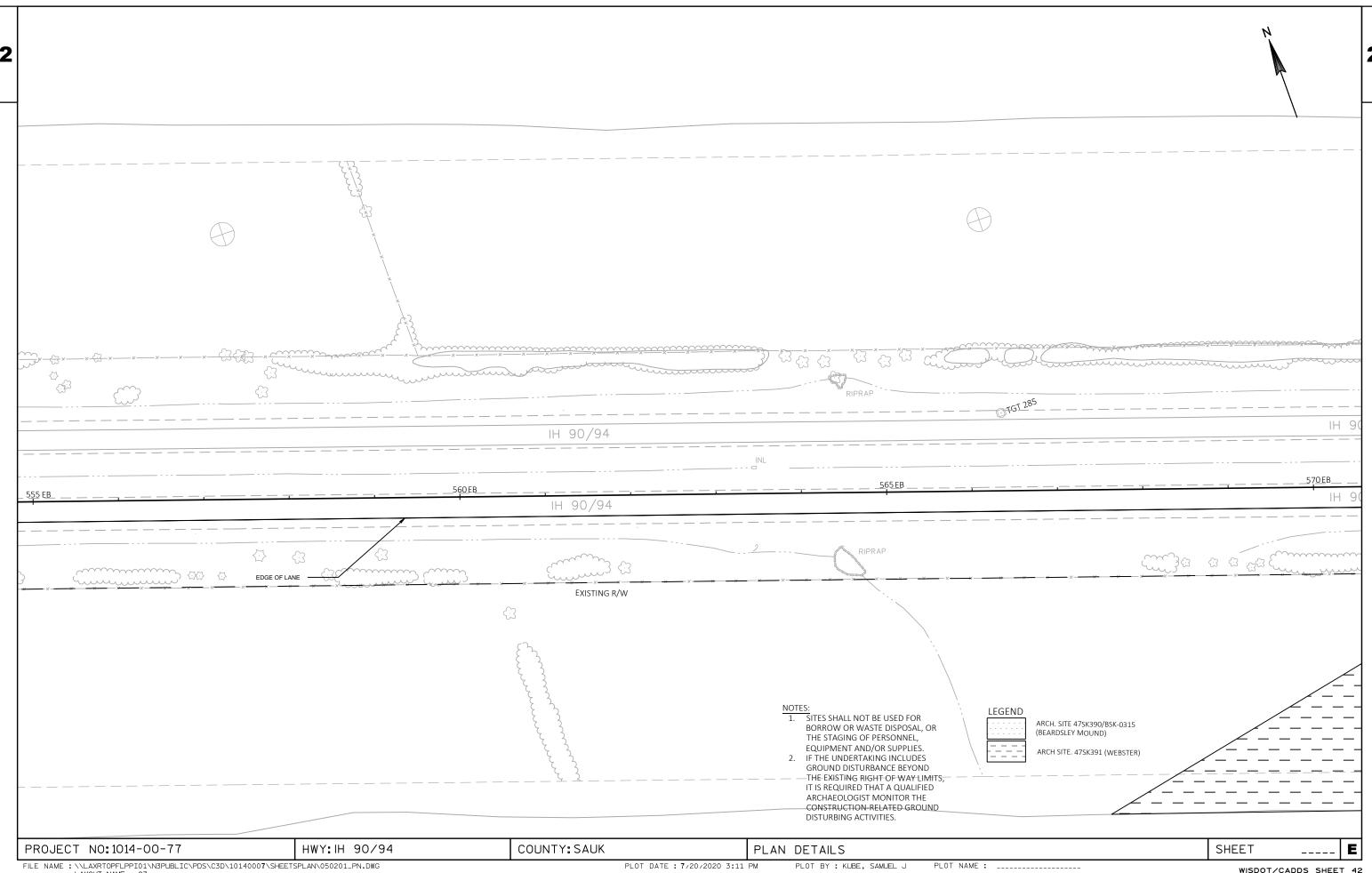


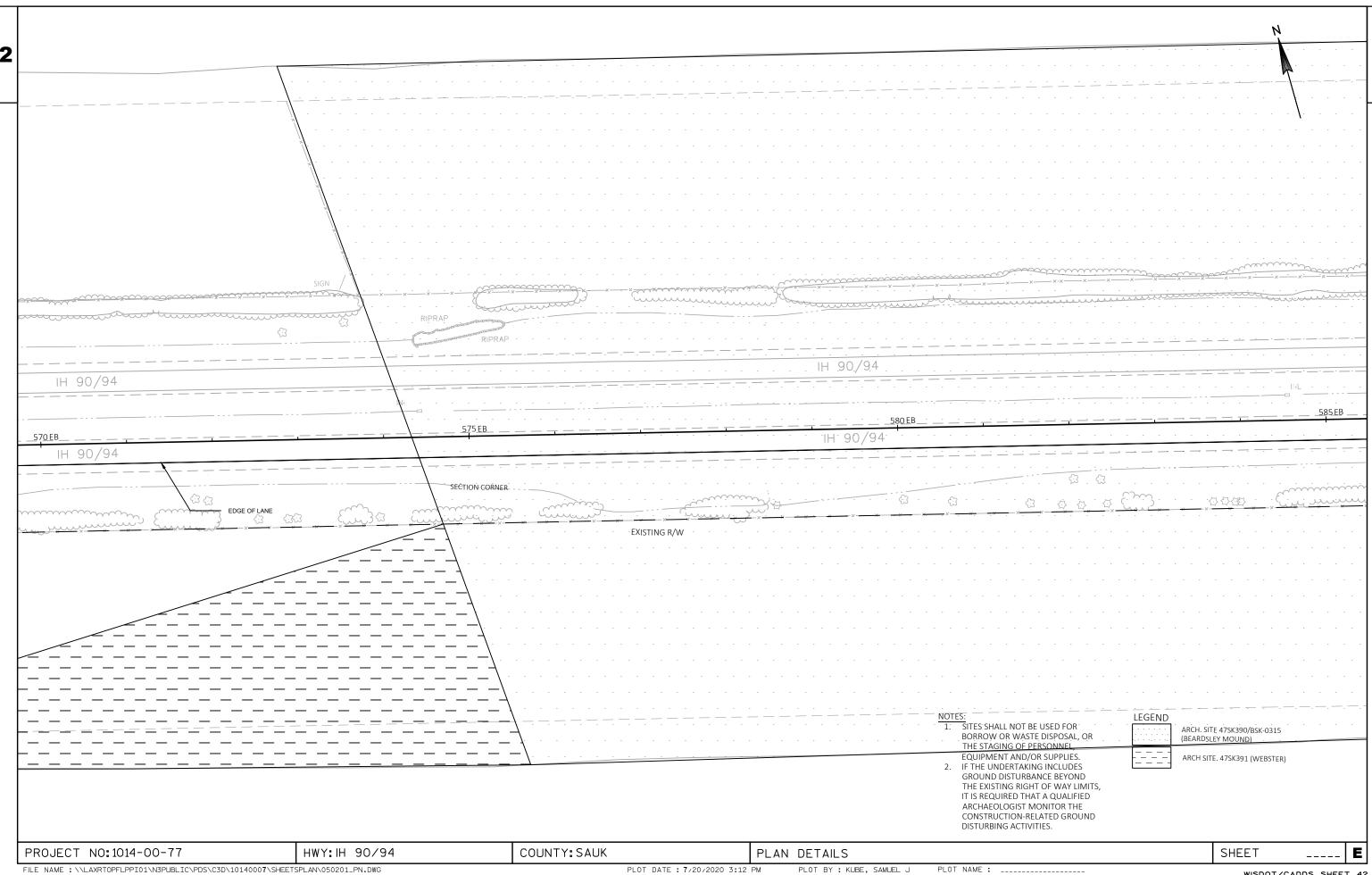


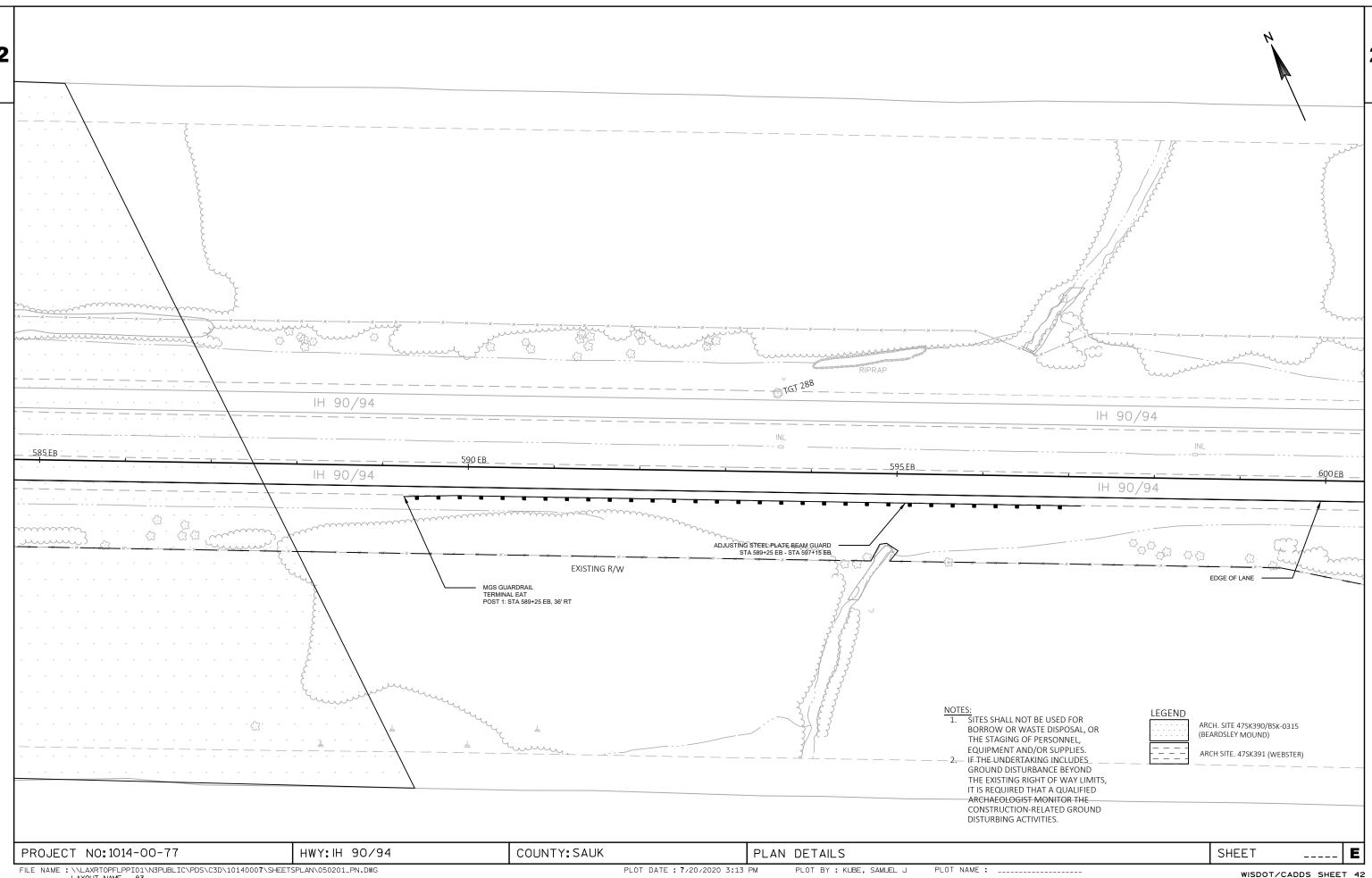


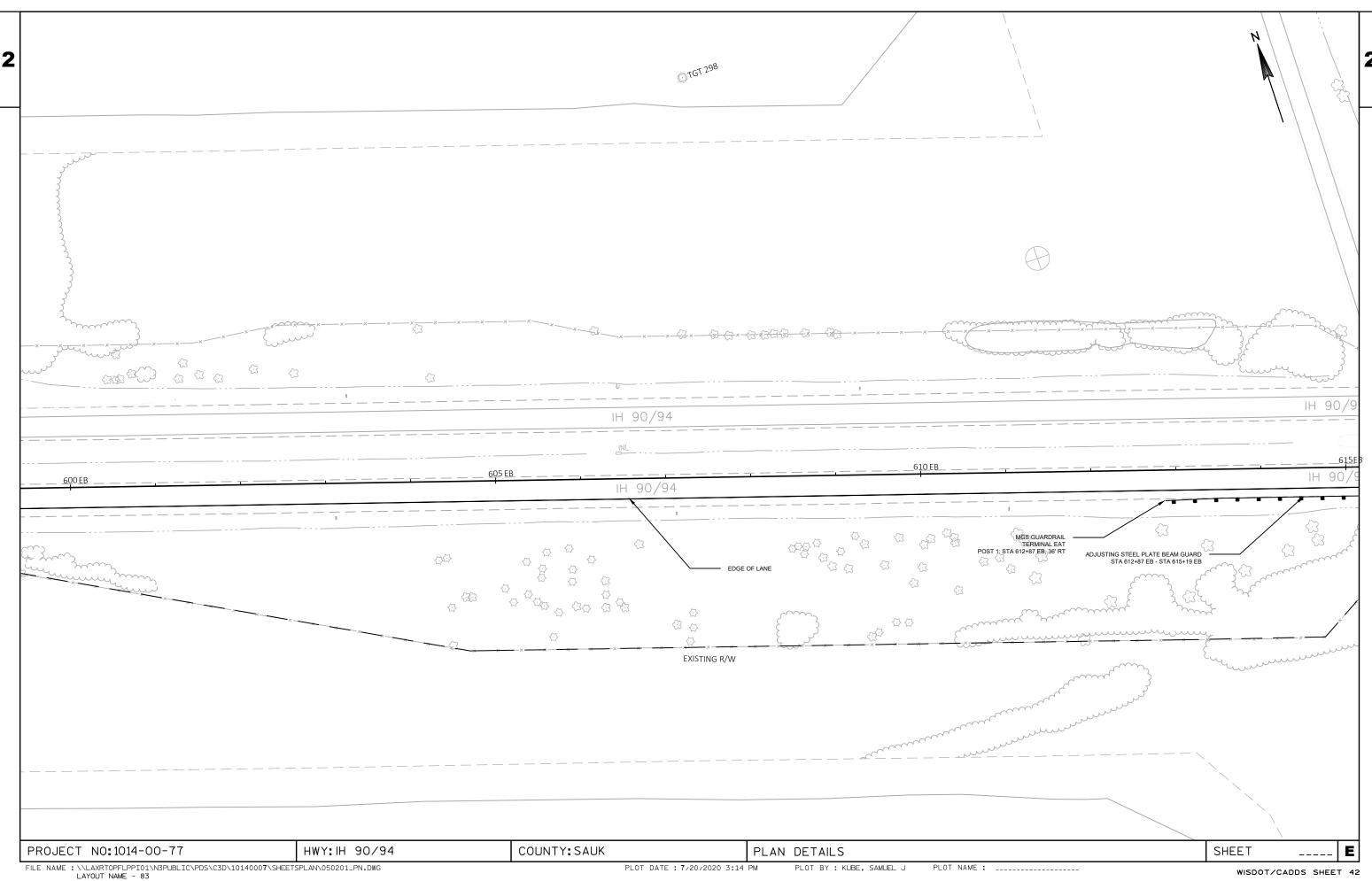


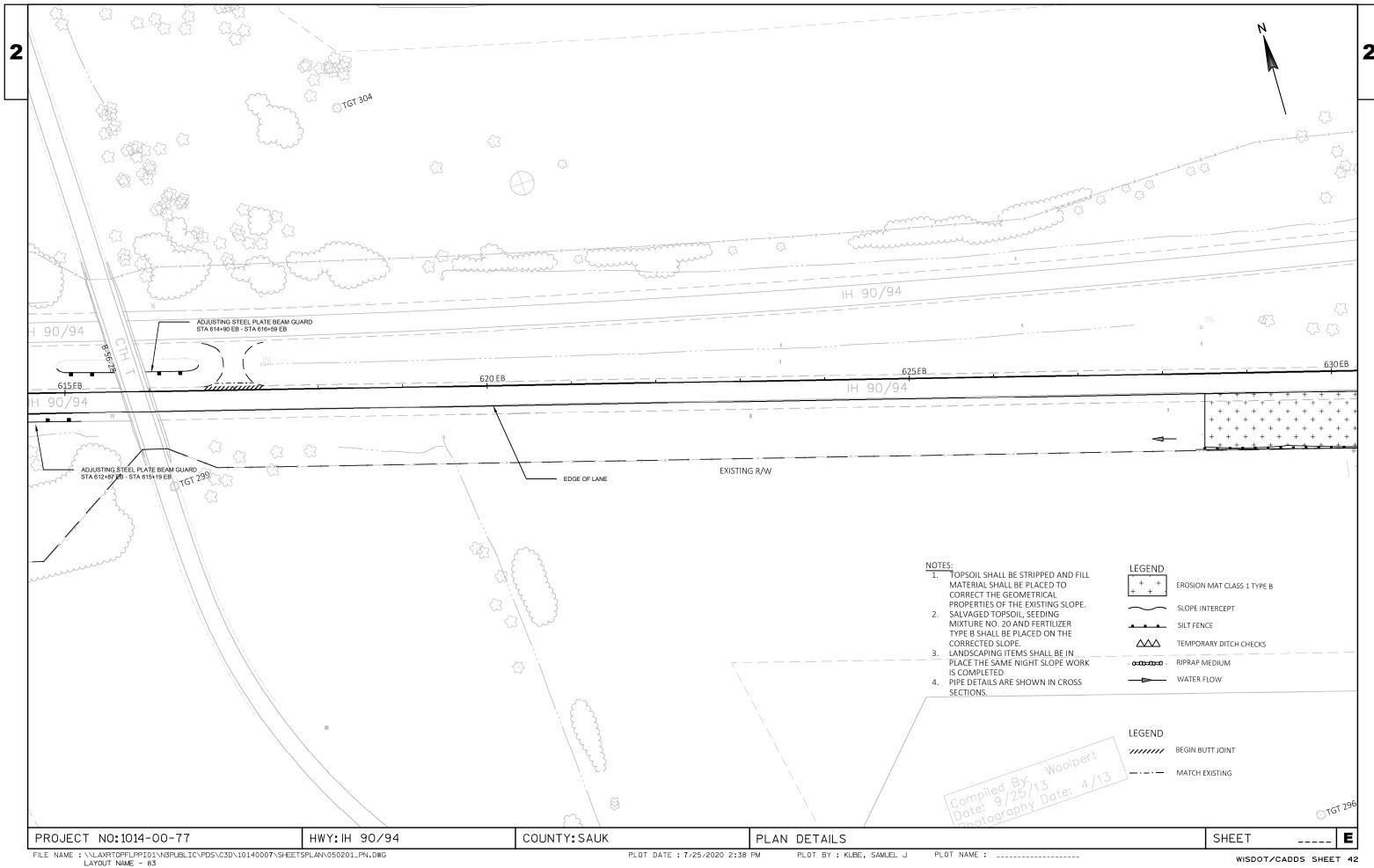


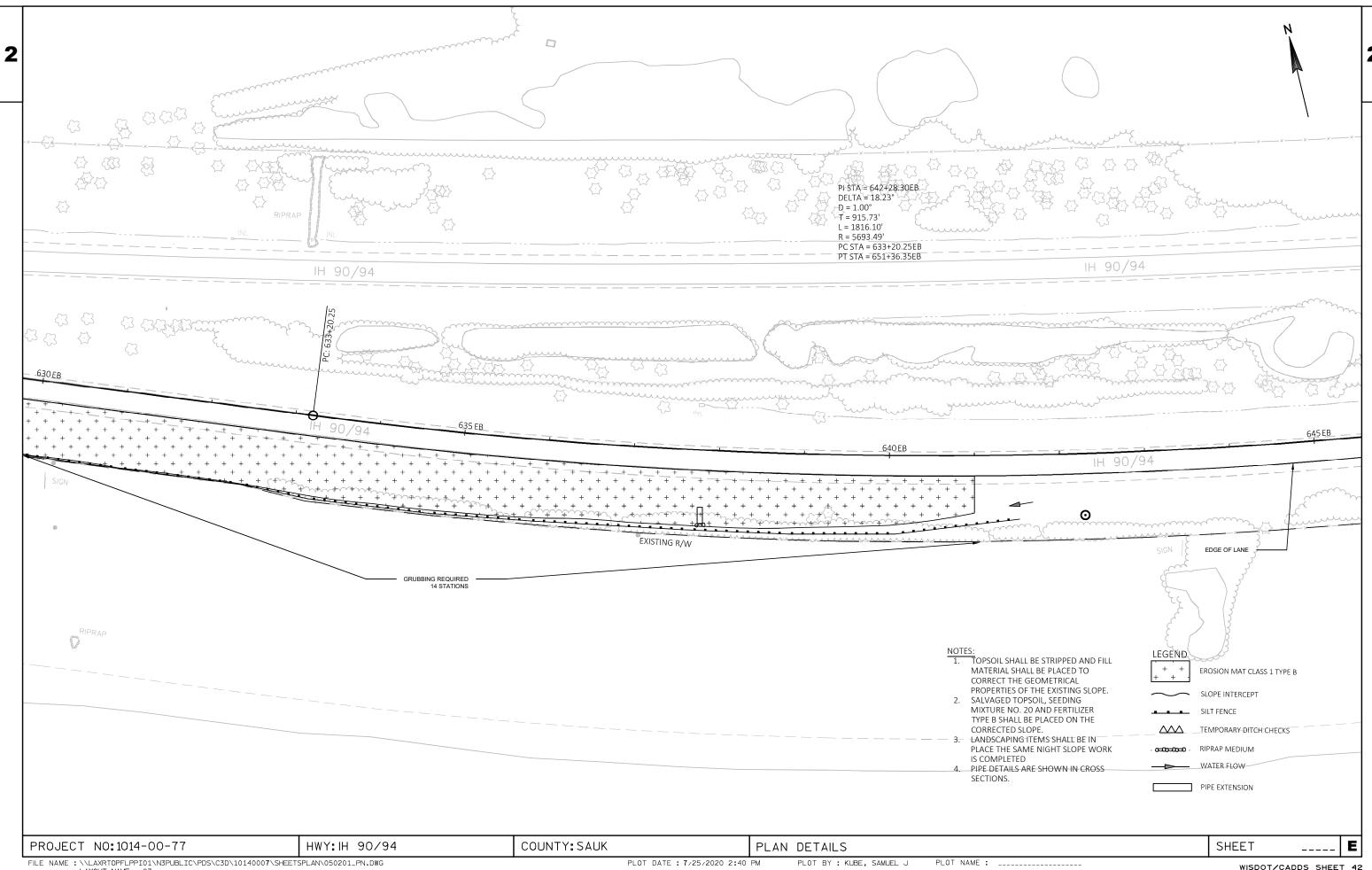


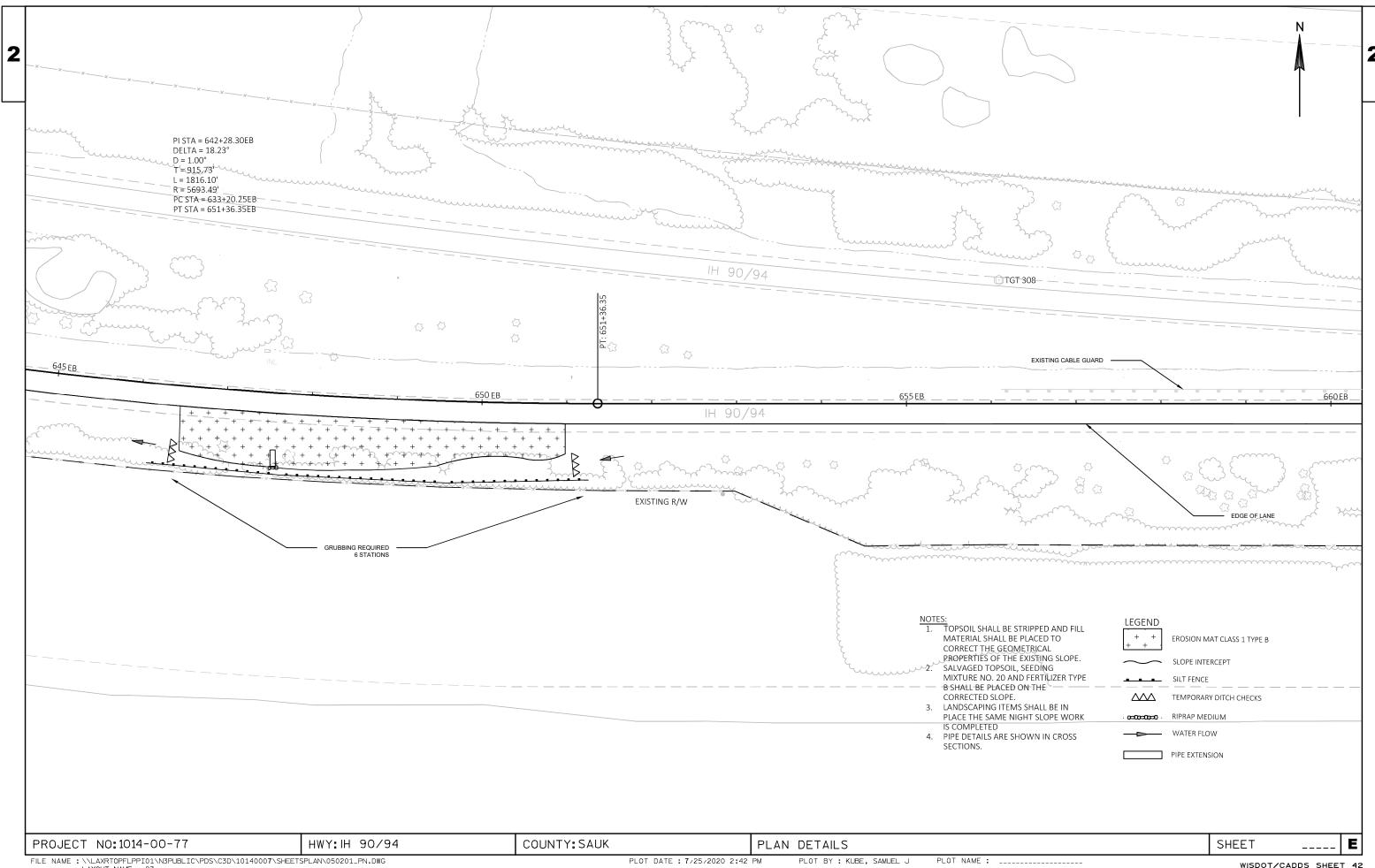


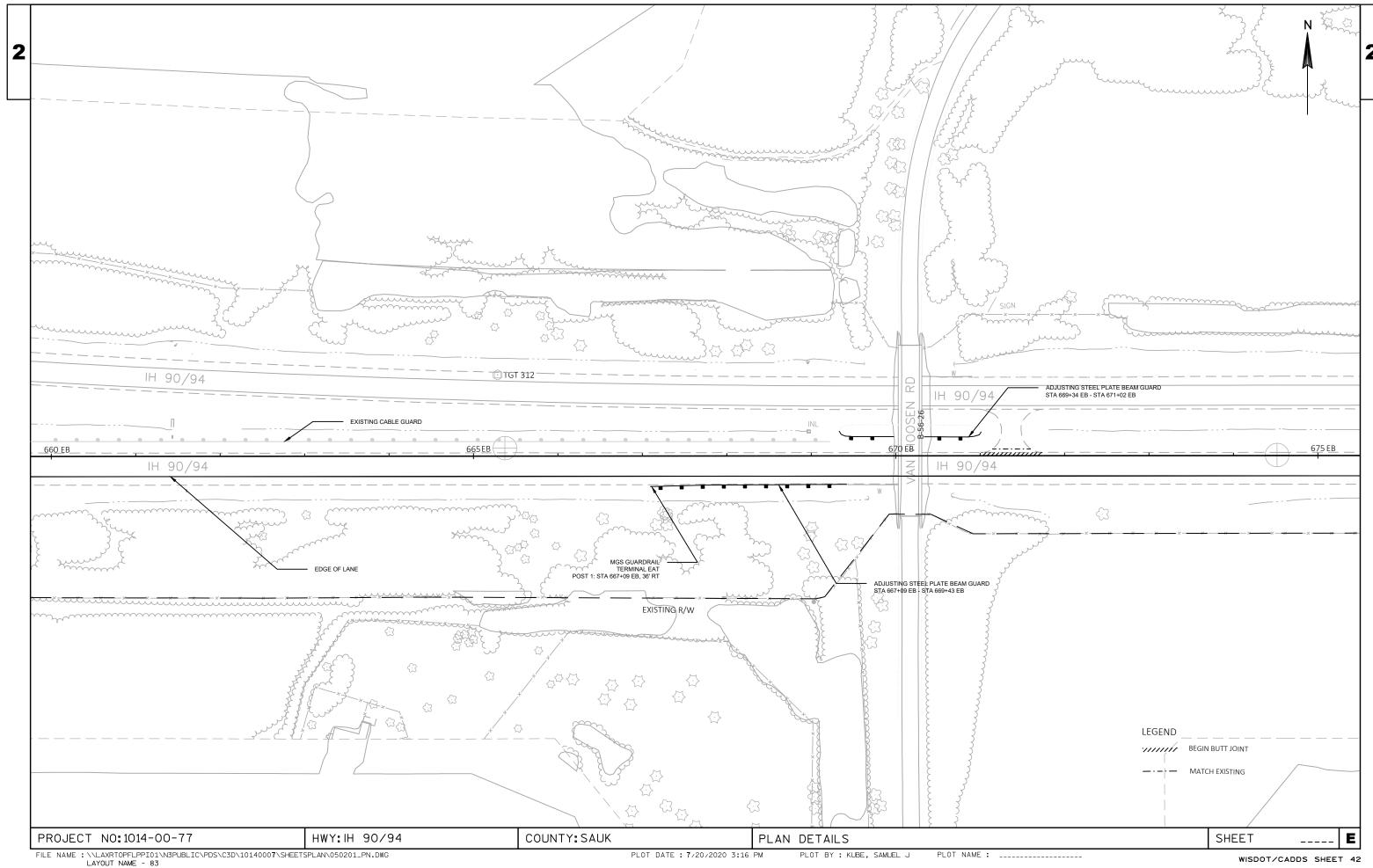


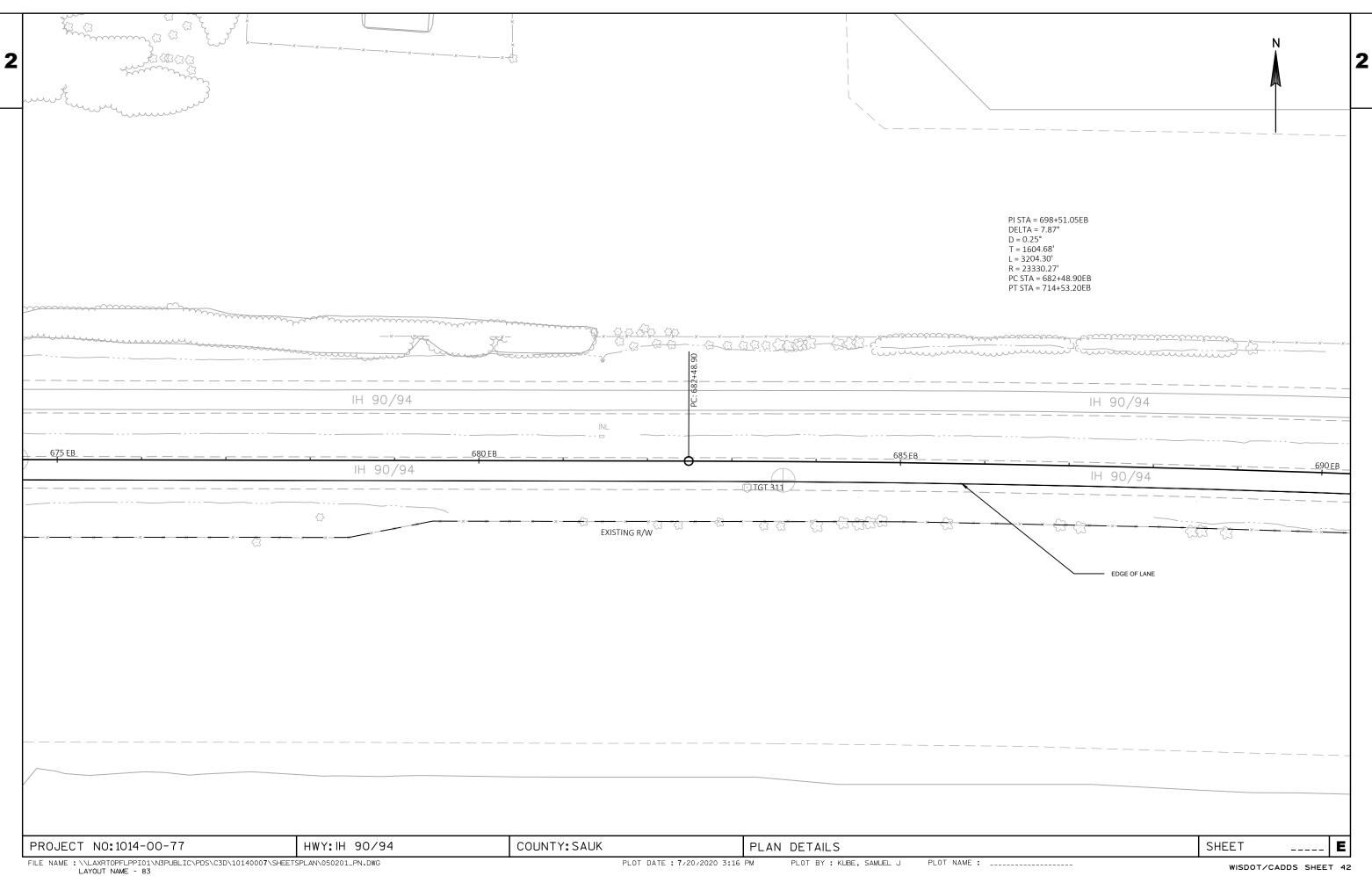


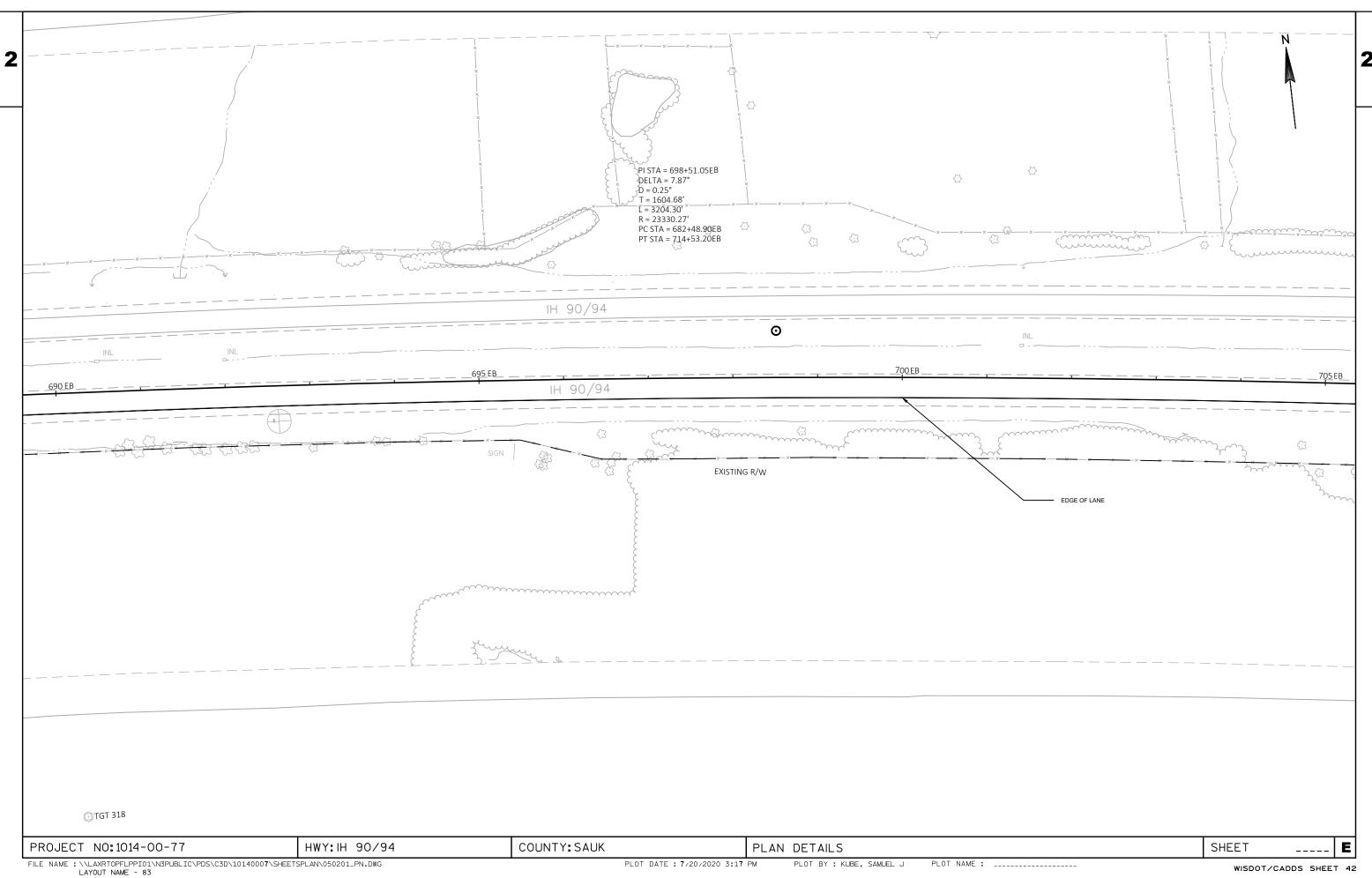


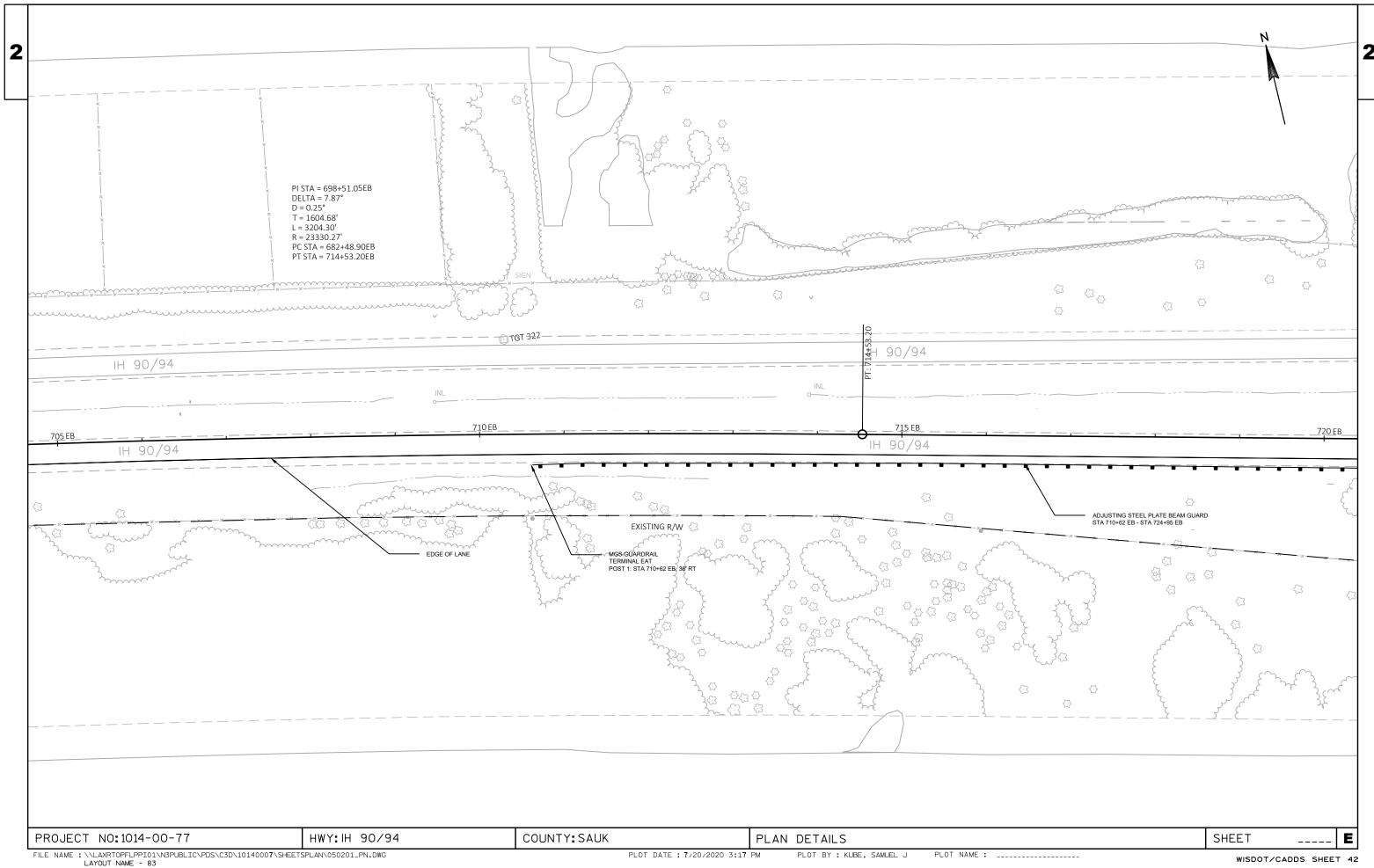


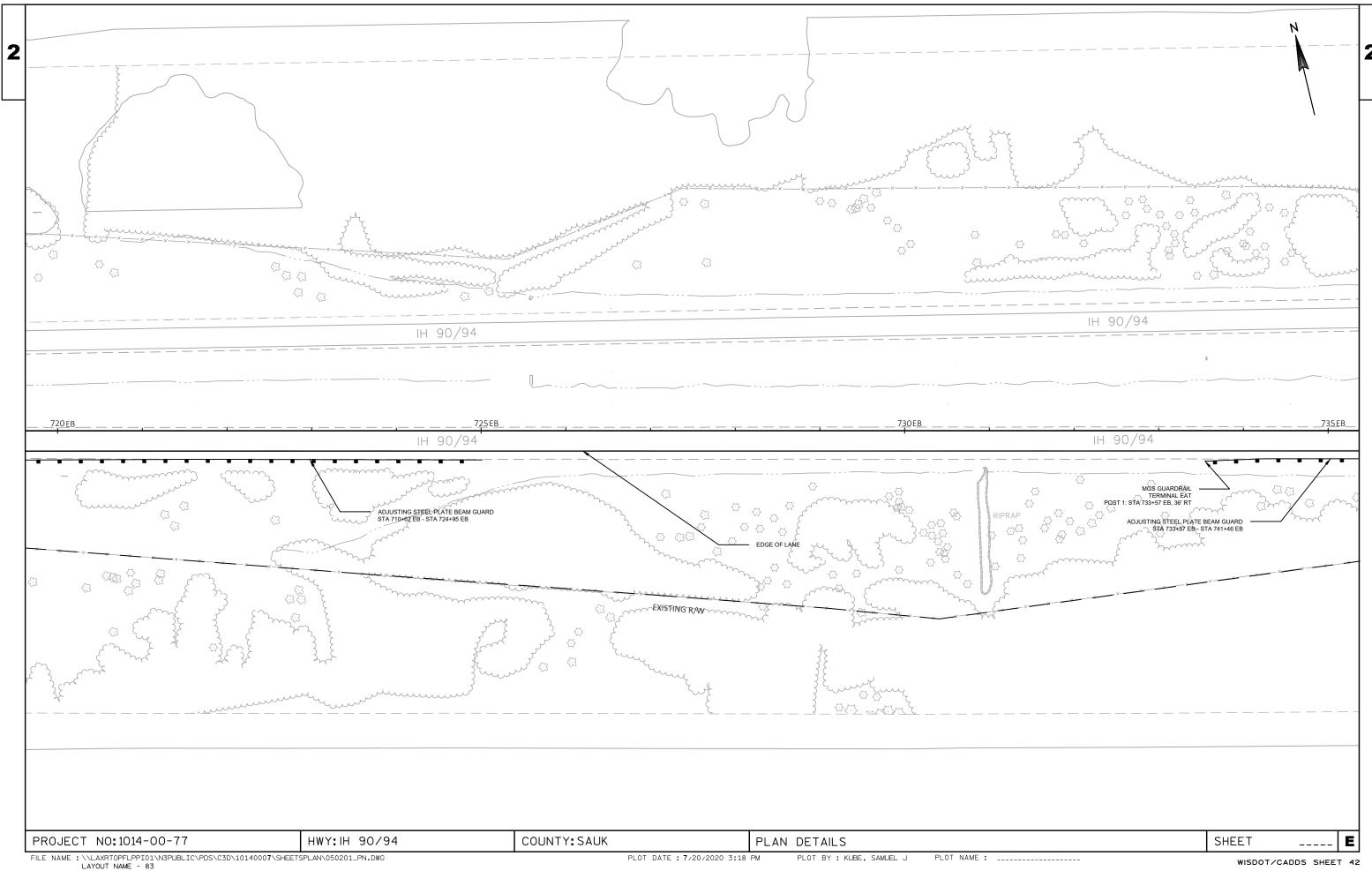


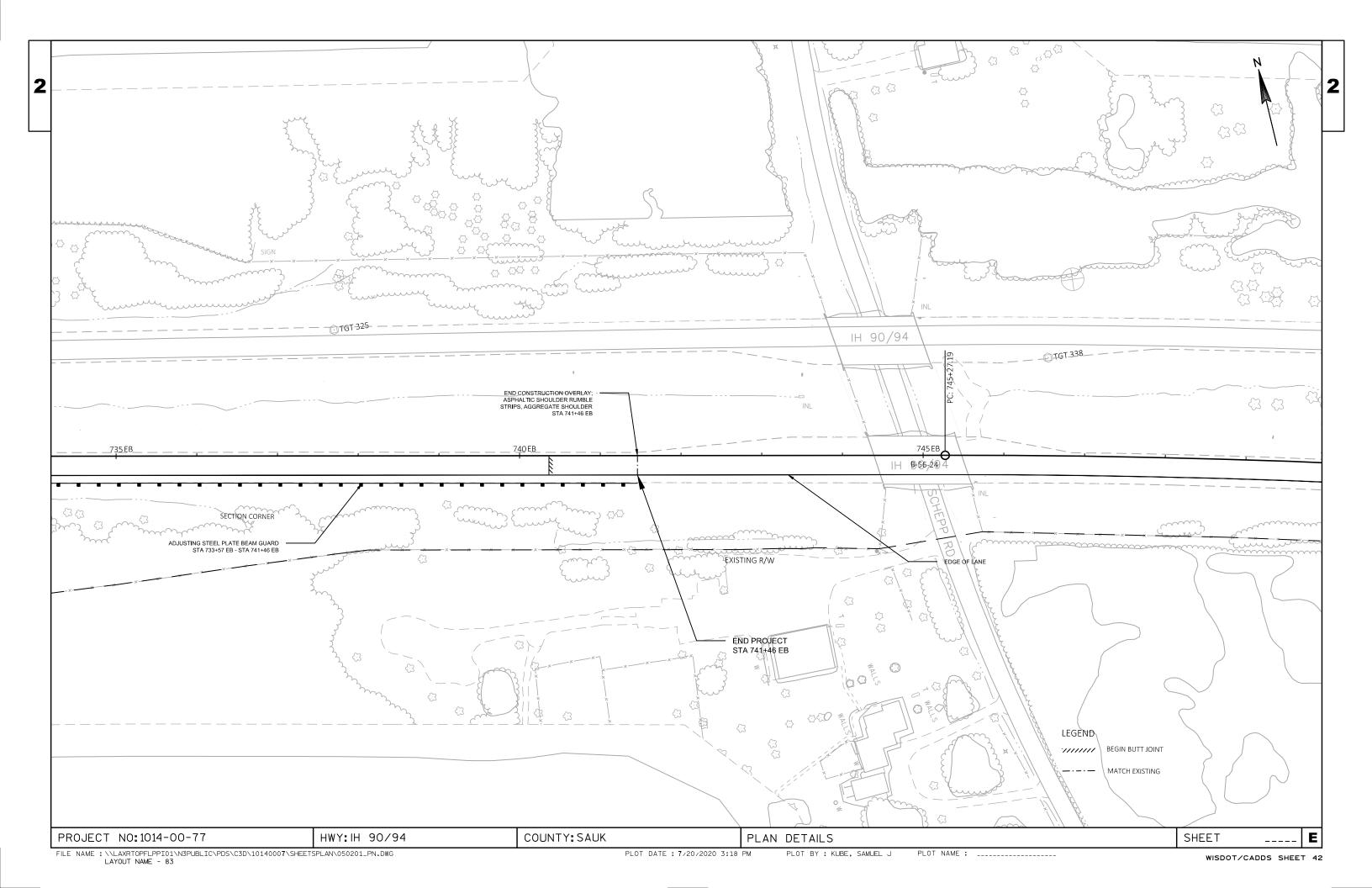












| | | | | | 1014-00-77 |
|------|------------|---|---------------|------------|------------|
| Line | Item | Item Description | Unit | Total | Qty |
| 0002 | 201.0105 | Clearing | STA | 5.000 | 5.000 |
| 0002 | 201.0105 | Grubbing | STA | 28.000 | 28.000 |
| 0004 | 204.0105 | Removing Pavement Butt Joints | SY | 1,395.000 | 1,395.000 |
| 0008 | 204.0115 | Removing Asphaltic Surface Butt Joints | SY | 1,261.000 | 1,261.000 |
| 0010 | 204.0150 | Removing Curb & Gutter | LF | 866.000 | 866.000 |
| 0010 | 208.0100 | Borrow | CY | 8,200.000 | 8,200.000 |
| 0012 | 213.0100 | Finishing Roadway (project) 01. 1014-00-77 | EACH | 1.000 | 1.000 |
| 0014 | 305.0110 | Base Aggregate Dense 3/4-Inch | TON | 3,400.000 | 3,400.000 |
| 0018 | 390.0403 | Base Patching Concrete Shes | SY | 4,500.000 | 4,500.000 |
| | 416.0610 | Drilled Tie Bars | EACH | 600.000 | 600.000 |
| 0020 | | | | | |
| 0022 | 416.0620 | Drilled Dowel Bars | EACH | 5,600.000 | 5,600.000 |
| 0024 | 455.0605 | Tack Coat | GAL | 22,000.000 | 22,000.000 |
| 0026 | 460.0105.S | , , , | | 1.000 | 1.000 |
| 0028 | 460.0110.S | ` , , , , | EACH | 1.000 | 1.000 |
| 0030 | 460.2005 | Incentive Density PWL HMA Pavement | DOL | 13,100.000 | 13,100.000 |
| 0032 | 460.2007 | Incentive Density HMA Pavement Longitudinal Joints | DOL | 90,888.000 | 90,888.000 |
| 0034 | 460.2010 | Incentive Air Voids HMA Pavement | DOL | 18,910.000 | 18,910.000 |
| 0036 | 460.5224 | HMA Pavement 4 LT 58-28 S | TON | 7,700.000 | 7,700.000 |
| 0038 | 460.7224 | HMA Pavement 4 HT 58-28 S | TON | 15,100.000 | 15,100.000 |
| 0040 | 460.8624 | HMA Pavement 4 SMA 58-28 V | TON | 15,100.000 | 15,100.000 |
| 0042 | 465.0315 | Asphaltic Flumes | SY | 12.000 | 12.000 |
| 0044 | 465.0400 | Asphaltic Shoulder Rumble Strips | LF | 87,220.000 | 87,220.000 |
| 0046 | 522.1024 | Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch | EACH | 2.000 | 2.000 |
| 0048 | 522.1030 | Apron Endwalls for Culvert Pipe Reinforced Concrete | EACH | 1.000 | 1.000 |
| 0040 | 022.1000 | 30-Inch | L/(OI) | 1.000 | 1.000 |
| 0050 | 606.0200 | Riprap Medium | CY | 6.000 | 6.000 |
| 0052 | 608.0324 | Storm Sewer Pipe Reinforced Concrete Class III 24- | LF | 17.000 | 17.000 |
| 0002 | 000.0021 | Inch | | 77.000 | 77.000 |
| 0054 | 608.0330 | Storm Sewer Pipe Reinforced Concrete Class III 30- | LF | 4.000 | 4.000 |
| | | Inch | =- | | |
| 0056 | 614.0400 | Adjusting Steel Plate Beam Guard | LF | 7,117.000 | 7,117.000 |
| 0058 | 614.2500 | MGS Thrie Beam Transition | LF | 438.000 | 438.000 |
| 0060 | 614.2610 | MGS Guardrail Terminal EAT | EACH | 11.000 | 11.000 |
| 0062 | 619.1000 | Mobilization | EACH | 1.000 | 1.000 |
| 0064 | 624.0100 | Water | MGAL | 100.000 | 100.000 |
| 0066 | 625.0500 | Salvaged Topsoil | SY | 15,900.000 | 15,900.000 |
| 0068 | 628.1504 | Silt Fence | LF | 2,700.000 | 2,700.000 |
| 0070 | 628.1520 | Silt Fence Maintenance | LF | 2,700.000 | 2,700.000 |
| 0070 | 628.1905 | Mobilizations Erosion Control | EACH | 3.000 | |
| | | | | | 3.000 |
| 0074 | 628.1910 | Mobilizations Emergency Erosion Control | EACH | 3.000 | 3.000 |

| | | | | | 1014-00-77 |
|------|----------------------|---|-------|-------------|-------------|
| Line | Item | Item Description | Unit | Total | Qty |
| 0076 | 628.2004 | Erosion Mat Class I Type B | SY | 15,900.000 | 15,900.000 |
| 0078 | 628.7504 | Temporary Ditch Checks | LF | 80.000 | 80.000 |
| 0080 | 629.0210 | Fertilizer Type B | CWT | 10.000 | 10.000 |
| 0080 | 630.0120 | Seeding Mixture No. 20 | LB | 453.000 | 453.000 |
| 0082 | 630.0200 | Seeding Temporary | LB | 100.000 | 100.000 |
| 0086 | 630.0500 | Seed Water | MGAL | 103.000 | 100.000 |
| | | Markers Culvert End | EACH | | |
| 8800 | 633.5200 | | | 3.000 | 3.000 |
| 0090 | 642.5201 | Field Office Type C | EACH | 1.000 | 1.000 |
| 0092 | 643.0300 | Traffic Control Drums | DAY | 3,154.000 | 3,154.000 |
| 0094 | 643.0420 | Traffic Control Barricades Type III | DAY | 176.000 | 176.000 |
| 0096 | 643.0705 | Traffic Control Warning Lights Type A | DAY | 352.000 | 352.000 |
| 0098 | 643.0715 | Traffic Control Warning Lights Type C | DAY | 616.000 | 616.000 |
| 0100 | 643.0800 | Traffic Control Arrow Boards | DAY | 88.000 | 88.000 |
| 0102 | 643.0900 | Traffic Control Signs | DAY | 980.000 | 980.000 |
| 0104 | 643.1051 | Traffic Control Signs PCMS with Cellular Communications | DAY | 94.000 | 94.000 |
| 0106 | 643.1205.S | Basic Traffic Queue Warning System | DAY | 44.000 | 44.000 |
| 0108 | 643.4100.S | Traffic Control Interim Lane Closure | EACH | 44.000 | 44.000 |
| 0110 | 643.5000 | Traffic Control | EACH | 1.000 | 1.000 |
| 0112 | 645.0120 | Geotextile Type HR | SY | 12.000 | 12.000 |
| 0114 | 646.1040 | Marking Line Grooved Wet Ref Epoxy 4-Inch | LF | 100,742.000 | 100,742.000 |
| 0116 | 646.3555 | Marking Line Grooved Contrast Permanent Tape 8-Inch | | 1,688.000 | 1,688.000 |
| 0118 | 646.9400 | Marking Removal Plowable Raised Pavement Markers | EACH | 410.000 | 410.000 |
| 0120 | 649.0105 | Temporary Marking Line Paint 4-Inch | LF | 209,049.000 | 209,049.000 |
| 0122 | 650.5500 | Construction Staking Curb Gutter and Curb & Gutter | LF | 1,036.000 | 1,036.000 |
| 0124 | 650.6000 | Construction Staking Pipe Culverts | EACH | 4.000 | 4.000 |
| 0124 | 650.8000 | Construction Staking Pape Curverts Construction Staking Resurfacing Reference | LACIT | 43,610.000 | 43,610.000 |
| 0128 | 650.9910 | Construction Staking Resultacing Reference Construction Staking Supplemental Control (project) 01. | | 1.000 | 1.000 |
| 0120 | 030.9910 | 1014-00-77 | LO | 1.000 | 1.000 |
| 0130 | 650.9920 | Construction Staking Slope Stakes | LF | 2,350.000 | 2,350.000 |
| 0132 | 690.0250 | Sawing Concrete | LF | 13,066.000 | 13,066.000 |
| 0134 | ASP.1T0A | On-the-Job Training Apprentice at \$5.00/HR | HRS | 2,100.000 | 2,100.000 |
| | ASP.1T0A ASP.1T0G | | | | |
| 0136 | | On-the-Job Training Graduate at \$5.00/HR | HRS | 2,400.000 | 2,400.000 |
| 0138 | SPV.0060 | Special 01. Verify Landmark Reference Monuments | EACH | 4.000 | 4.000 |
| 0140 | SPV.0090 | Special 01. Concrete Curb and Gutter 30-Inch Type A, 9-Inch | LF | 866.000 | 866.000 |
| 0142 | SDV 0000 | | 1.5 | 4 000 000 | 4 000 000 |
| 0142 | SPV.0090 | Special 02. Concrete Joint and Crack Cleaning | LF | 4,000.000 | 4,000.000 |
| 0144 | SPV.0105 | Special 01. Material Transfer Vehicle | LS | 1.000 | 1.000 |

|3

| STATION | TO | STATION | LOCATION | 201.0105 CLEARING STA | 201.0205 GRUBBING STA |
|-----------|----|-----------|---------------|-----------------------------|-----------------------------|
| | | | | | |
| 426+50 EB | - | 433+00 | OUTSIDE | - | 8 |
| 628+50 EB | - | 641+00 EB | OUTSIDE | - | 14 |
| 646+50 EB | - | 651+00 EB | OUTSIDE | - | 6 |
| | - | | UNDISTRIBUTED | 5 | - |
| | | | | | |
| | | | TOTAL 0010 | 5 | 28 |

BUTT JOINT SUMMARY

| | | | | 204.0105 | 204.0115 |
|-----------|----|-----------|------------|-------------------------------------|---|
| CTATION | T0 | CTATION | LOCATION | REMOVING PAVEMENT BUTT JOINTS | REMOVING ASPHALTIC SURFACE BUTT JOINTS |
| STATION | ТО | STATION | LOCATION | SY | SY |
| 303+15 EB | - | 304+00 EB | MAINLINE | 253 | - |
| 303+15 EB | - | 304+00 EB | SHOULDERS | - | 117 |
| 354+47 EB | - | 355+32 EB | MAINLINE | 369 | - |
| 354+47 EB | - | 355+32 EB | SHOULDERS | - | 117 |
| 357+53 EB | - | 358+38 EB | MAINLINE | 360 | - |
| 357+53 EB | - | 358+38 EB | SHOULDERS | - | 117 |
| 740+61 EB | - | 741+46 EB | MAINLINE | 253 | - |
| 740+61 EB | - | 741+46 EB | SHOULDERS | - | 117 |
| | | | | | |
| 343+85 A | - | 344+70 A | RAMP | 160 | - |
| 343+85 A | - | 344+70 A | SHOULDERS | - | 97 |
| 349+80 B | - | 350+68 B | RAMP | - | 194 |
| 349+80 B | - | 350+68 B | SHOULDERS | - | 49 |
| 356+37 C | - | 357+22 C | RAMP | - | 165 |
| 356+37 C | - | 357+22 C | SHOULDERS | - | 49 |
| | | | | | |
| 337+67 EB | - | 338+25 EB | CROSSOVER | - | 37 |
| 385+66 EB | - | 386+16 EB | CROSSOVER | - | 32 |
| 466+00 EB | - | 466+63 EB | CROSSOVER | - | 41 |
| 522+36 EB | - | 523+00 EB | CROSSOVER | - | 42 |
| 616+65 EB | - | 617+35 EB | CROSSOVER | - | 46 |
| 671+05 EB | - | 671+70 EB | CROSSOVER | - | 42 |
| | | | | | |
| | | | TOTAL 0010 | 1,395 | 1,261 |
| | | | | | |

| | | | | 208.0100 BORROW |
|-----------|----|-----------|------------|--------------------|
| STATION | TO | STATION | LOCATION | CY |
| | | | | |
| 426+50 EB | - | 433+00 EB | OUTSIDE | 1,200 |
| 628+50 EB | - | 641+00 EB | OUTSIDE | 5,800 |
| 646+50 EB | - | 651+00 EB | OUTSIDE | 1,200 |
| | | | | |
| | | | TOTAL 0010 | 8,200 |

PROJECT NO: 1014-00-77 HWY: IH 90/94 COUNTY: SAUK MISCELLANEOUS QUANTITIES SHEET: **E**

FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

^{*} ADDITIONAL QUANTITY LISTED ELSEWHERE FOR THIS ITEM

| | | | | | BASE PATO | H SUMMARY | | | | | | | | BASE PATCH SUMM | MARY (CONTINUED) | | |
|----------------|--------------|--------------|--------------|--------------------------------|------------------|--------------------|-----------------|-----------------------|----------------|--------------|----------------|--------------|--------------------------------|------------------|-----------------------|-----------------|-----------------|
| | | | | 390.0403 | 416.0610 | 416.0620 | 690.0250 | | | | | | 390.0403 | 416.0610 | 416.0620 | 690.0250 | |
| | | EASTBOUN | ND LOCATION | BASE PATCHING CONCRETE SHES | DRILLED TIE BARS | DRILLED DOWEL BARS | SAWING CONCRETE | | | | EASTBOUN | ND LOCATION | BASE PATCHING CONCRETE SHES | DRILLED TIE BARS | DRILLED DOWEL BARS | SAWING CONCRETE | |
| EB MILE MARKER | PLUS | SIDE | LENGTH | SY | EACH | EACH | LF | REMARKS | EB MILE MARKER | PLUS | SIDE | LENGTH | SY | EACH | EACH | LF | REMARKS |
| 91 | 3383 | LEFT | 6.00 | 8.00 | _ | 16 | 30 | | 92 | 881 | RIGHT | 6.00 | 9.33 | _ | 16 | 34 | AUX LANE |
| 91 | 3407 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 898 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | AUX LANE |
| 91 | 3476 | RIGHT | 6.00 | 9.33 | _ | 16 | 34 | | 92 | 935 | LEFT | 6.00 | 8.00 | - | 16 | 30 | NON BITTE |
| 91 | 3486 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 1120 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 91 | 3518 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 1212 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | RAMP JOINTS |
| | | | | | | | | | | | | | | | | | |
| 91 | 3605 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 92 | 1240 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | RAMP |
| 91 | 3616 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 1284 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | RAMP |
| 91 91 | 3634 3682 | LEFT LEFT | 6.00 6.00 | 8.00 8.00 | - | 16 16 | 30 30 | | 92 92 | 1382 1500 | RIGHT RIGHT | 6.00 6.00 | 9.33 9.33 | - | 16 16 | 34 34 | |
| 91 | 3761 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 1842 | RIGHT | 18.00 | 28.00 | 8 | 16 | 46 | |
| | | | | | | | | | | | | | | | | | |
| 91 | 3784 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 92 | 1886 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | AUX LANE |
| 91 | 3808 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 1900 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 91 | 3828 | BOTH | 6.00 | 17.33 | - | 32 | 58 | | 92 | 1952 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 91 | 3849 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 92 | 2033 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 91 | 3903 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 2380 | BOTH | 6.00 | 17.33 | - | 32 | 58 | |
| 91 | 3913 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 2461 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 91 | 3931 | ВОТН | 6.00 | 17.33 | - | 32 | 58 | | 92 | 2498 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 91 | 4110 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 2570 | RIGHT | 8.00 | 12.44 | 4 | 16 | 36 | |
| 91 | 4149 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 2620 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 91 | 4203 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 2634 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 91 | 4230 | LEFT | 6.00 | 8.00 | _ | 16 | 30 | | 92 | 2784 | RIGHT | 6.00 | 9.33 | _ | 16 | 34 | |
| 91 | 4301 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 2793 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 91 | 4380 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 92 | 2904 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | BETWEEN PATCHES |
| 91 | 4394 | RIGHT | 10.00 | 15.56 | 4 | 16 | 38 | | 92 | 3020 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 91 | 4409 | RIGHT | 10.00 | 15.56 | 4 | 16 | 38 | | 92 | 3076 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 01 | 4426 | RIGHT | 8.00 | 12.44 | 4 | 16 | 36 | | 92 | 3099 | RIGHT | 5.00 | 9.33 | | 16 | 34 | |
| 91 91 | 4426 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 3152 | LEFT | 8.00 | 10.67 | 4 | 16 | 32 | |
| 91 | 4585 | вотн | 6.00 | 17.33 | _ | 32 | 58 | | 92 | 3177 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 91 | 4598 | RIGHT | 18.00 | 28.00 | 8 | 16 | 46 | | 92 | 3296 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 91 | 4642 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 3398 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| | | | | | | | | | | | | | | | | | |
| 91 | 4656 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 3452 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 91 | 4662 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 3518 | RIGHT | 10.00 | 15.56 | 4 | 16 | 38 | |
| 91 | 4789 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 92 | 3556 | RIGHT | 10.00 | 15.56 | 4 | 16 | 38 | |
| 91 | 4854 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 3588 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 91 | 5093 | RIGHT | 24.00 | 37.33 | 10 | 16 | 52 | | 92 | 3616 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 91 | 5146 | RIGHT | 6.00 | 9.33 | | 16 | 34 | | 92 | 3725 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 91 | 5268 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 92 | 3890 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 92 | 235 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 92 | 3945 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 92 | 525 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | BRIDGE JOINT/APPROACH | 92 | 4485 | LEFT | 8.00 | 10.67 | 4 | 16 | 32 | |
| 92 | 860 | RIGHT | 30.00 | 46.67 | 12 | 16 | 58 | RIGHT AND AUX LANE | 92 | 4499 | LEFT | 8.00 | 10.67 | 4 | 16 | 32 | |
| | | | | | - | | | | | | | | | | | | |
| | | SUBTOTAL 1 = | | 484 | 42 | 688 | 1,456 | | | | SUBTOTAL 2 = | | 413 | 32 | 656 | 1,380 | |
| PROJECT NO: | 1014-00- | 77 | | HWY: IH | l 90/94 | | COUNTY: | SAUK | MISCE | ELLANE | OUS QUA | NTITIES | | | | | SHEET: |

FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

| | BASE PATCH SUMMARY (CONTINU | | | | | | BASE PATCH SUMMARY (CONTINUED) | | | | | | | | | | |
|----------------|-----------------------------|--------------|------------|--------------------------------|------------------|--------------------|--------------------------------|-----------------|----------------|--------------|----------------|-------------|--------------------------------|------------------|--------------------|-----------------|---------|
| | | | | 390.0403 | 416.0610 | 416.0620 | 690.0250 | | | | | | 390.0403 | 416.0610 | 416.0620 | 690.0250 | |
| | | EASTBOUN | D LOCATION | BASE PATCHING CONCRETE SHES | DRILLED TIE BARS | DRILLED DOWEL BARS | SAWING CONCRETE | | | | EASTBOUN | ID LOCATION | BASE PATCHING CONCRETE SHES | DRILLED TIE BARS | DRILLED DOWEL BARS | SAWING CONCRETE | |
| EB MILE MARKER | PLUS | SIDE | LENGTH | SY | EACH | EACH | LF | REMARKS | EB MILE MARKER | PLUS | SIDE | LENGTH | SY | EACH | EACH | LF | REMARKS |
| 1 | | | | | | | | | | | | | | | | | |
| 92 | 5001 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 95 | 2301 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 92 | 5045 | RIGHT | 10.00 | 15.56 | 4 | 16 | 38 | | 95 | 2491 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 92 | 5260 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 95 | 3058 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 93 | 200 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 95 | 3100 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 93 | 1801 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 95 | 3234 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 93 | 2328 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 95 | 3422 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 93 | 2488 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 95 | 3807 | LEFT | 8.00 | 10.67 | 4 | 16 | 32 | |
| 93 | 2540 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 95 | 3888 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 93 | 2881 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 95 | 4132 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 93 | 3091 | вотн | 6.00 | 17.33 | - | 32 | 58 | | 95 | 4235 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 03 | 2252 | RIGHT | 6.00 | 0.22 | | 16 | 24 | | OF. | 4204 | RIGHT | C 00 | 0.22 | _ | 16 | 34 | |
| 93 93 | 3253 | BOTH | 8.00 | 9.33 23.11 | 4 | 32 | 34 60 | | 95 95 | 4304 4532 | RIGHT | 6.00 | 9.33 9.33 | | 16 | 34 | |
| 93 | 3333 3376 | LEFT | 8.00 | 10.67 | 4 | 16 | 32 | | 95 | 4684 | | 6.00 | 9.33 | - | 16 | 34 | |
| 93 | 3511 | LEFT | 6.00 | 8.00 | | 16 | 30 | | 95 | 4793 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 93 | 3684 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 95 | 5022 | RIGHT RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 93 | 3064 | LEFT | 6.00 | 8.00 | - | 10 | 50 | | 35 | 3022 | RIGHT | 6.00 | 9.55 | - | 16 | 34 | |
| 93 | 3954 | LEFT | 6.00 | 8.00 | - | 16 | 30 | REPATCH | 96 | 125 | RIGHT | 18.00 | 28.00 | 8 | 16 | 46 | |
| 93 | 4136 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 96 | 420 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 93 | 4354 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 96 | 682 | RIGHT | 40.00 | 62.22 | 16 | 16 | 68 | |
| 93 | 4961 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 96 | 763 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 94 | 290 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 96 | 877 | RIGHT | 40.00 | 62.22 | 16 | 16 | 68 | |
| 94 | 556 | RIGHT | 18.00 | 28.00 | 8 | 16 | 46 | | 96 | 912 | LEFT | 6.00 | 8.00 | _ | 16 | 30 | |
| 94 | 844 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 96 | 1060 | RIGHT | 6.00 | 9.33 | _ | 16 | 34 | |
| 94 | 1293 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 96 | 1250 | RIGHT | 6.00 | 9.33 | _ | 16 | 34 | |
| 94 | 2126 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 96 | 1468 | RIGHT | 6.00 | 9.33 | _ | 16 | 34 | |
| 94 | 2682 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 96 | 1555 | RIGHT | 6.00 | 9.33 | _ | 16 | 34 | |
| | | | | | | | | | | | | | | | | | |
| 94 | 2850 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 96 | 1756 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 94 | 3432 | RIGHT | 18.00 | 28.00 | 8 | 16 | 46 | | 96 | 2292 | RIGHT | 30.00 | 46.67 | 12 | 16 | 58 | |
| 94 | 3958 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 96 | 2834 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 94 | 4042 | RIGHT | 10.00 | 15.56 | 4 | 16 | 38 | BETWEEN PATCHES | 96 | 3015 | RIGHT | 30.00 | 46.67 | 12 | 16 | 58 | |
| 94 | 4344 | RIGHT | 8.00 | 12.44 | 4 | 16 | 36 | | 96 | 3104 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 94 | 4720 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 96 | 3200 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 94 | 5025 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 96 | 3250 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 94 | 5133 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 96 | 3430 | RIGHT | 25.00 | 38.89 | 10 | 16 | 53 | |
| 95 | 1820 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 96 | 3450 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 95 | 1844 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 96 | 3599 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| | | | | | | | | | | | | | | | | | |
| 95 | 1880 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 96 | 3610 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 95 | 1929 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 96 | 3625 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 95 | 2118 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 96 | 3698 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 95 | 2124 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 96 | 3779 | LEFT | 8.00 | 10.67 | 4 | 16 | 32 | |
| 95 | 2286 | RIGHT | 18.00 | 28.00 | 8 | 16 | 46 | | 96 | 3823 | RIGHT | 18.00 | 28.00 | 8 | 16 | 46 | |
| | | | - | | | | | | | | | | - | | | | - |
| | | SUBTOTAL 3 = | | 448 | 44 | 672 | 1,394 | | | | SUBTOTAL 4 = | | 618 | 90 | 640 | 1,499 | |
| PROJECT NO: | 1014 00 | 77 | | HWY: IH | 90/94 | | COUNTY: | SALIK | MIC | CELLAND | OUS QUA | NITITIES | | | | c | HEET: E |
| I NOULOT NO. | 1014-00- | 1 | | 1 1 1 1 1 1 1 1 | JU/34 | | COUNTY. | OAUN | IVIIO | OLLLAINE | _000 QUP | MINITES | | | | 3 | E |

BASE PATCH SUMMARY (CONTINUED)

BASE PATCH SUMMARY (CONTINUED)

| Part | | | | | | BASE PATCH SUM | MARY (CONTINUED) | | | | | | | | BASE PATCH SUM | MMARY (CONTINUED) | | |
|---|----------------|---------|--------------|------------|----------|------------------|--------------------|-----------------|---------|----------------|----------|--------------|--------------|----------|------------------|--------------------|-----------------|----------|
| The column The | | | | | 390.0403 | 416.0610 | 416.0620 | 690.0250 | | | | | | 390.0403 | 416.0610 | 416.0620 | 690.0250 | |
| | | | EASTBOUN | D LOCATION | | DRILLED TIE BARS | DRILLED DOWEL BARS | SAWING CONCRETE | | | | EASTBOL | JND LOCATION | | DRILLED TIE BARS | DRILLED DOWEL BARS | SAWING CONCRETE | |
| No. Column Colu | EB MILE MARKER | PLUS | SIDE | LENGTH | SY | EACH | EACH | LF | REMARKS | EB MILE MARKER | PLUS | SIDE | LENGTH | SY | EACH | EACH | LF | REMARKS |
| No. Column Colu | 05 | 2022 | LECT | 6.00 | 8.00 | | 16 | 20 | | 07 | 4076 | LEET | 8.00 | 10.67 | 4 | 16 | 22 | |
| Second S | | | | | | - | | | | | | | | | • | | | |
| 20 | | | | | | | | | | | | | | | | | | |
| The color The | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | _ | | | | | | | | | | | | |
| Mart | 30 | 4200 | CLIT | 0.00 | 0.00 | | 10 | 30 | | 3, | 4433 | Morri | 0.00 | 3.33 | | 10 | 34 | |
| Column C | 96 | 4478 | RIGHT | 45.00 | 70.00 | 18 | 16 | 73 | | 97 | 4660 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| Mart 170 | 96 | 4523 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 97 | 4722 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 1 | 96 | 4546 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 97 | 4754 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| | 96 | 4715 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 97 | 4827 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| Mart | 96 | 4850 | RIGHT | 18.00 | 28.00 | 8 | 16 | 46 | | 97 | 5000 | RIGHT | 90.00 | 140.00 | 36 | 16 | 118 | |
| Mart | | | | | | | | | | | | | | | | | | |
| The control of the | | | | | | | | | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | - | | | | | | | | | 5 | | | |
| 100 | | | | | | - | | | | | | | | | | | | |
| 100 | 97 | 1286 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 98 | 170 | RIGHT | 45.00 | 70.00 | 18 | 16 | 73 | |
| 100 | 97 | 1304 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 98 | 374 | RIGHT | 6.00 | 9.33 | _ | 16 | 34 | |
| 1 | | | | | | - | | | | | | | | | _ | | | |
| 1 | | | | | | - | | | | | | | | | - | | | |
| 27 220 | | | | | | - | | | | | | | | | - | | | |
| 97 2266 LETT 6:00 8:00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1 | 97 | 2208 | RIGHT | 6.00 | 9.33 | - | | 34 | | 98 | 960 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 97 2266 LETT 6:00 8:00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1 | | | | | | | | | | | | | | | | | | |
| 97 2700 1877 600 0.00 1870 600 0.00 1 16 30 0.00 1800 600 1800 600 1800 600 1800 1800 | 97 | 2215 | LEFT | | 8.00 | - | | | | 98 | 995 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 97 270 80HT 6.00 8.33 · 16 34 98 3395 LEFT 6.00 8.00 · 16 30 10 77 10 77 17 10 10 10 10 10 10 10 10 10 10 10 10 10 | 97 | 2256 | LEFT | 6.00 | 8.00 | - | | | | 98 | 1144 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 97 | 97 | 2370 | LEFT | 6.00 | 8.00 | - | | 30 | | 98 | 1382 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 97 | | | | | | - | | | | | | | | | - | | | |
| 97 | 97 | 2768 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | | 98 | 2008 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 97 | 97 | 2299 | LEFT | 6.00 | 8.00 | _ | 16 | 30 | | 98 | 2080 | RIGHT | 30.00 | 46.67 | 12 | 16 | 58 | |
| 97 | | | | | | - | | | | | | | | | _ | | | |
| 97 | | | | | | - | | | | | | | | | - | | | |
| 97 | | | | | | 4 | | | | | | | | | - | | | |
| 97 3268 LEFT 6.00 8.00 - 16 30 98 3118 LEFT 6.00 8.00 - 16 30 98 328 RIGHT 6.00 9.33 - 16 34 97 3422 LEFT 6.00 8.00 - 16 30 98 4225 RIGHT 6.00 9.33 - 16 34 98 4270 RIGHT 6.00 9.33 - 16 34 98 4270 RIGHT 3.00 46.67 12 16 58 98 4270 RIGHT 6.00 8.00 - 16 30 | 97 | | RIGHT | 6.00 | 9.33 | - | 16 | | | 98 | 3013 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 97 3268 LEFT 6.00 8.00 - 16 30 98 3118 LEFT 6.00 8.00 - 16 30 98 328 RIGHT 6.00 9.33 - 16 34 97 3422 LEFT 6.00 8.00 - 16 30 98 4225 RIGHT 6.00 9.33 - 16 34 98 4270 RIGHT 6.00 9.33 - 16 34 98 4270 RIGHT 3.00 46.67 12 16 58 98 4270 RIGHT 6.00 8.00 - 16 30 | | | | | | | | | | | | | | | | | | |
| 97 3375 LEFT 6.00 8.00 - 16 30 98 3328 RIGHT 6.00 9.33 - 16 34 97 3422 LEFT 6.00 8.00 - 16 30 98 4225 RIGHT 6.00 9.33 - 16 34 97 3437 LEFT 6.00 8.00 - 16 30 98 4270 RIGHT 30.00 46.67 12 16 58 98 485 LEFT 6.00 8.00 - 16 30 98 485 LEFT 6.00 8.00 - 16 30 97 3542 LEFT 6.00 8.00 - 16 30 98 4783 LEFT 6.00 8.00 - 16 30 97 3551 LEFT 6.00 8.00 - 16 30 98 4783 LEFT 6.00 8.00 - 16 30 97 3570 LEFT 6.00 8.00 - 16 30 98 4984 LEFT 6.00 8.00 - 16 30 97 3870 LEFT 6.00 8.00 - 16 30 98 5050 RIGHT 6.00 9.33 - 16 34 97 3989 RIGHT 6.00 9.33 - 16 34 98 5050 RIGHT 6.00 9.33 - 16 34 99 50 LEFT 6.00 8.00 - 16 30 98 5050 RIGHT 6.00 9.33 - 16 34 | 97 | 3100 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 98 | 3110 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 97 3422 LEFT 6.00 8.00 - 16 30 98 4225 RIGHT 6.00 9.33 - 16 34 97 3504 RIGHT 6.00 9.33 - 16 58 97 3504 RIGHT 6.00 9.33 - 16 30 98 4485 LEFT 6.00 8.00 - 16 30 98 4783 LEFT 6.00 8.00 - 16 30 97 3551 LEFT 6.00 8.00 - 16 30 98 4783 LEFT 6.00 8.00 - 16 30 97 3551 LEFT 6.00 8.00 - 16 30 98 4946 LEFT 6.00 8.00 - 16 30 97 3870 LEFT 6.00 8.00 - 16 30 98 4946 LEFT 6.00 8.00 - 16 30 98 5050 RIGHT 6.00 9.33 - 16 34 97 3989 RIGHT 6.00 9.33 - 16 34 99 50 LEFT 6.00 8.00 - 16 30 | 97 | 3268 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 98 | 3118 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 97 3437 LEFT 6.00 8.00 - 16 30 98 4270 RIGHT 30.00 46.67 12 16 58 97 3504 RIGHT 6.00 9.33 - 16 34 98 4485 LEFT 6.00 8.00 - 16 30 98 4783 LEFT 6.00 8.00 - 16 30 98 4783 LEFT 6.00 8.00 - 16 30 97 3551 LEFT 6.00 8.00 - 16 30 98 4946 LEFT 6.00 8.00 - 16 30 97 3870 LEFT 6.00 8.00 - 16 30 98 4946 LEFT 6.00 8.00 - 16 30 98 5050 RIGHT 6.00 9.33 - 16 34 99 50 LEFT 6.00 8.00 - 16 30 SUBTOTAL 5 = 553 70 656 1,413 SUBTOTAL 5 = 553 70 656 1,413 | 97 | 3375 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 98 | 3328 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 97 | 97 | 3422 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 98 | 4225 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 97 3542 LEFT 6.00 8.00 - 16 30 98 4783 LEFT 6.00 8.00 - 16 30 97 3551 LEFT 6.00 8.00 - 16 30 98 4946 LEFT 6.00 8.00 - 16 30 97 3870 LEFT 6.00 8.00 - 16 30 98 5050 RIGHT 6.00 9.33 - 16 34 97 3989 RIGHT 6.00 9.33 - 16 34 99 50 LEFT 6.00 8.00 - 16 30 SUBTOTAL 5 = 553 70 656 1,413 SUBTOTAL 6 = 627 91 640 1,465 | 97 | 3437 | LEFT | 6.00 | 8.00 | - | 16 | 30 | | 98 | 4270 | RIGHT | 30.00 | 46.67 | 12 | 16 | 58 | |
| 97 3542 LEFT 6.00 8.00 - 16 30 98 4783 LEFT 6.00 8.00 - 16 30 97 3551 LEFT 6.00 8.00 - 16 30 98 4946 LEFT 6.00 8.00 - 16 30 97 3870 LEFT 6.00 8.00 - 16 30 98 5050 RIGHT 6.00 9.33 - 16 34 97 3989 RIGHT 6.00 9.33 - 16 34 99 50 LEFT 6.00 8.00 - 16 30 SUBTOTAL 5 = 553 70 656 1,413 SUBTOTAL 6 = 627 91 640 1,465 | | | | | | | | | | | | | | | | | | |
| 97 3551 LEFT 6.00 8.00 - 16 30 98 4946 LEFT 6.00 8.00 - 16 30 97 3870 LEFT 6.00 8.00 - 16 30 98 5050 RIGHT 6.00 9.33 - 16 34 97 3989 RIGHT 6.00 9.33 - 16 34 99 50 LEFT 6.00 8.00 - 16 30 99 50 LEFT 6.00 8.00 - 16 30 99 50 LEFT 6.00 8.00 - 16 30 | | | | | | | | | | | | | | | | | | |
| 97 3870 LEFT 6.00 8.00 - 16 30 98 5050 RIGHT 6.00 9.33 - 16 34 97 3989 RIGHT 6.00 9.33 - 16 34 SUBTOTAL 5 = 553 70 656 1,413 SUBTOTAL 6 = 627 91 640 1,465 | | | | | | | | | | | | | | | | | | |
| 97 3989 RIGHT 6.00 9.33 - 16 34 99 50 LEFT 6.00 8.00 - 16 30 SUBTOTAL 5 = 553 70 656 1,413 SUBTOTAL 6 = 627 91 640 1,465 | | | | | | | | | | | | | | | | | | |
| SUBTOTAL 5 = 553 70 656 1,413 SUBTOTAL 6 = 627 91 640 1,465 | | | | | | | | | | | | | | | | | | |
| | ارد | 3202 | MORI | 0.00 | 5.33 | | 10 | | | 22 | 30 | LEFT | 0.00 | 8.00 | | 10 | | |
| | | | | | | | | | | | | | | | | | | |
| ROJECT NO: 1014-00-77 HWY: IH 90/94 COUNTY: SAUK MISCELLANEOUS QUANTITIES SHEET: | | | SUBTOTAL 5 = | | 553 | 70 | 656 | 1,413 | | | | SUBTOTAL 6 = | | 627 | 91 | 640 | 1,465 | |
| ROJECT NO: 1014-00-77 HWY: IH 90/94 COUNTY: SAUK MISCELLANEOUS QUANTITIES SHEET: | | | | | | | | | | | | | | | | | | <u>.</u> |
| | PROJECT NO: | 1014-00 | -77 | | HWY: IF | ł 90/94 | | COUNTY: S | SAUK | N | /ISCELLA | NEOUS Q | UANTITIES | ; | | | SH | IEET: |

FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

|3

BASE PATCH SUMMARY (CONTINUED)

| | | | | 390.0403 | 416.0610 | 416.0620 | 690.0250 | |
|----------------|------|--------------|-------------|-----------------------------|---------------------|-----------------------|--------------------|---------|
| | | EASTBOU | ND LOCATION | BASE PATCHING CONCRETE SHES | DRILLED TIE BARS | DRILLED DOWEL BARS | SAWING CONCRETE | |
| EB MILE MARKER | PLUS | SIDE | LENGTH | SY | EACH | EACH | LF | REMARKS |
| | | | | | | | | |
| 99 | 600 | RIGHT | 6.00 | 9.33 | - | 16 | 34 | |
| 99 | 902 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 99 | 997 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 99 | 1312 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 99 | 1467 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| | | | | | | | | |
| 99 | 1488 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 99 | 1621 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 99 | 1684 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 99 | 3499 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 99 | 3640 | RIGHT | 15.00 | 23.33 | 6 | 16 | 43 | |
| | | | | | | | | |
| 99 | 3888 | BOTH | 6.00 | 17.33 | - | 32 | 58 | |
| 99 | 3994 | LEFT | 6.00 | 8.00 | - | 16 | 30 | |
| 99 | 4503 | LEFT | 40.00 | 53.33 | 16 | 16 | 64 | |
| | | | | | | | | |
| | | SUBTOTAL 7 = | | 175 | 22 | 224 | 469 | • |

BASE PATCH SUMMARY (TOTALS)

| | 390.0403 | 416.0610 | 416.0620 | 690.0250 | |
|---------------|-----------------------------|---------------------|-----------------------|--------------------|---------|
| | BASE PATCHING CONCRETE SHES | DRILLED TIE BARS | DRILLED DOWEL BARS | SAWING CONCRETE | |
| | SY | EACH | EACH | LF | REMARKS |
| | | | | | |
| SUBTOTAL 1 | 484 | 42 | 688 | 1,456 | |
| SUBTOTAL 2 | 413 | 32 | 656 | 1,380 | |
| SUBTOTAL 3 | 448 | 44 | 672 | 1,394 | |
| SUBTOTAL 4 | 618 | 90 | 640 | 1,499 | |
| SUBTOTAL 5 | 553 | 70 | 656 | 1,413 | |
| SUBTOTAL 6 | 627 | 91 | 640 | 1,465 | |
| SUBTOTAL 7 | 175 | 22 | 224 | 469 | |
| UNDISTRIBUTED | 1,100 | 130 | 1,400 | 3,100 | |
| TOTAL 0010 | 4,500 | 600 | 5,600 | 12,200 | |

PROJECT NO: 1014-00-77 HWY: IH 90/94 COUNTY: SAUK MISCELLANEOUS QUANTITIES SHEET: **E**

FILE NAME : N:\PDS\...\030200_mq.pptx PLOT BY : A.R.H. PLOT BY : A.R.H. PLOT NAME : PLOT NAME : PLOT SCALE : 1:1

ASPHALT PAVEMENT SUMMARY

| | | | | 305.0110 | 455.0605 | 460.5224 | 460.7224 | 460.8624 | 465.0315 | 465.0400 | 624.0100 | SPV.0090.02 |
|-----------|----|-----------|-----------------------|----------------------------------|-----------|------------------------------|------------------------------|-------------------------------|---------------------|--|----------|--------------------------------------|
| | | | | BASE AGGREGATE DENSE 3/4-INCH | TACK COAT | HMA PAVEMENT 4 LT 58-28 S | HMA PAVEMENT 4 HT 58-28 S | HMA PAVEMENT 4 SMA 58-28 V | ASPHALTIC FLUMES | ASPHALTIC SHOULDER RUMBLE STRIPS | WATER | CONCRETE JOINT AND CRACK CLEANING |
| STATION | TO | STATION | LOCATION | TON | GAL | TON | TON | TON | SY | LF | MGAL | LF |
| | | | | | | | | | | | | |
| 303+15 EB | - | 355+32 EB | RIGHT LANE | - | 974 | - | 796 | 796 | - | - | - | = |
| 303+15 EB | - | 355+32 EB | LEFT LANE | - | 835 | - | 682 | 682 | - | - | - | = |
| 303+15 EB | = | 355+32 EB | INSIDE SHOULDER | 194 | 232 | = | 228 | 228 | = | 5217 | = | = |
| 303+15 EB | - | 334+54 EB | OUTSIDE SHOULDER | 117 | 280 | 547 | = | = | - | 3139 | - | = |
| 334+54 EB | = | 340+05 EB | A RAMP TAPER | = | 7 | = | 45 | 45 | = | = | = | = |
| 334+54 EB | - | 340+05 EB | OUTSIDE SHOULDER | 21 | 31 | 60 | = | = | - | 551 | - | = |
| 340+05 EB | = | 353+88 EB | OUTSIDE SHOULDER | 52 | 123 | 241 | = | = | = | 1383 | = | = |
| 353+88 EB | = | 355+32 EB | B RAMP TAPER/AUX LANE | = | 3 | = | 22 | 22 | = | = | - | = |
| 353+88 EB | = | 355+32 EB | OUTSIDE SHOULDER | 6 | 13 | 26 | = | = | = | 144 | = | = |
| 357+53 EB | - | 741+46 EB | RIGHT LANE | - | 7167 | - | 5853 | 5853 | - | - | - | = |
| 357+53 EB | = | 741+46 EB | LEFT LANE | = | 6143 | ÷ | 5017 | 5017 | = | = | = | = |
| 357+53 EB | - | 741+46 EB | INSIDE SHOULDER | 1422 | 1707 | - | 1673 | 1673 | - | 38393 | - | - |
| 357+53 EB | - | 363+53 EB | OUTSIDE SHOULDER | 23 | 54 | 105 | = | - | - | 600 | - | = |
| 357+53 EB | - | 375+87 EB | AUX LANE | - | 294 | - | 240 | 240 | - | - | - | - |
| 363+53 EB | - | 375+87 EB | OUTSIDE SHOULDER | 46 | 110 | 215 | - | - | - | 1234 | - | - |
| 363+53 EB | - | 375+87 EB | C RAMP TAPER | - | 14 | - | 99 | 99 | - | - | - | = |
| 375+87 EB | - | 381+14 EB | OUTSIDE SHOULDER | 20 | 47 | 92 | - | - | - | 527 | - | = |
| 375+87 EB | - | 381+14 EB | AUX LANE TAPER | - | 5 | - | 35 | 35 | - | - | - | - |
| 381+14 EB | - | 741+46 EB | OUTSIDE SHOULDER | 1335 | 3203 | 6278 | - | - | - | 36032 | - | - |
| | | | | | | | | | | | - | |
| 340+05 A | - | 344+70 A | INSIDE SHOULDER | 18 | 26 | - | 26 | 26 | - | - | - | - |
| 340+05 A | | 344+70 A | RAMP | - | 103 | - | 84 | 84 | - | - | - | - |
| 340+05 A | | 344+70 A | OUTSIDE SHOULDER | 18 | 26 | 51 | - | - | - | - | - | - |
| | | | | | | | | | | | - | |
| 349+80 B | - | 353+88 B | INSIDE SHOULDER | 16 | 23 | - | 23 | 23 | - | - | - | - |
| 349+80 B | - | 353+88 B | RAMP | - | 109 | - | 89 | 89 | - | - | - | - |
| 351+38 B | - | 351+38 B | OUTSIDE SHOULDER | - | - | - | - | - | 4 | - | - | - |
| | | | | | | | | | | | - | |
| 356+37 C | - | 363+53 C | INSIDE SHOULDER | 27 | 40 | - | 39 | 39 | - | - | - | - |
| 356+37 C | - | 363+53 C | RAMP | - | 163 | - | 133 | 133 | - | - | - | - |
| 357+27 C | - | 357+27 C | OUTSIDE SHOULDER | - | - | - | - | - | 8 | - | - | - |
| | | | | | | | | | | | - | |
| 337+67 EB | = | 338+25 EB | CROSSOVER | = | 2 | = | 2 | 2 | = | = | = | = |
| 385+66 EB | = | 386+16 EB | CROSSOVER | = | 2 | = | 2 | 2 | = | = | = | = |
| 448+73 EB | = | 449+31 EB | CROSSOVER | 4 | = | = | = | = | = | - | = | = |
| 466+00 EB | = | 466+63 EB | CROSSOVER | = | 3 | = | 3 | 3 | = | - | = | = |
| 522+36 EB | - | 523+00 EB | CROSSOVER | - | 3 | - | 3 | 3 | - | - | - | - |
| 616+65 EB | - | 617+35 EB | CROSSOVER | - | 3 | - | 3 | 3 | - | - | - | - |
| 671+05 EB | - | 671+70 EB | CROSSOVER | - | 3 | - | 3 | 3 | - | - | - | - |
| | | | | | | | | | | | | |
| | | | UNDISTRIBUTED | - | - | - | - | - | - | - | 100 | 4000 |
| | | | | | | | | | | | | |
| | | | TOTAL 0010 | 3,400 | 22,000 | 7,700 | 15,100 | 15,100 | 12 | 87,220 | 100 | 4,000 |
| | | | | Ť. | , | , | , | , | | • | | , |

HMA PAVEMENT PWL TEST STRIP

| | | | 460.0105.S | 460.0105.S |
|-----------|----|------------|---|---|
| | | | HMA PAVEMENT PWL TEST STRIP VOLUMETRICS | HMA PAVEMENT PWL TEST STRIP DENSITY |
| STATION | TO | STATION | LF | LF |
| 303+15 EB | - | 741+17 EB | 1 | 1 |
| | | TOTAL 0010 | 1 | 1 |

PWL MIXTURE USE TABLE

THE FOLLOWING ACCEPTANCE CRITERIA ARE APPLICABLE FOR THIS PROJECT:

| | | | | | | | QUALITY MANAGEMENT PROGRAM TO BE USED | |
|-----------------------|-----------------------|-------------|----------------------------|---------------|---------|-----------|---------------------------------------|--------------------|
| LOCATION | STATION | MIXTURE USE | UNDERLYING SURFACE | BID ITEM | TONS | THICKNESS | MIXTURE ACCEPTANCE | DENSITY ACCEPTANCE |
| RIGHT LANE | 303+15 EB - 355+32 EB | LOWER LIFT | EXISTING CONCRETE PAVEMENT | 4 HT 58-28 S | 796.00 | 1.75 | 460.2010 | 460.2005 |
| LEFT LANE | 303+15 EB - 355+32 EB | LOWER LIFT | EXISTING CONCRETE PAVEMENT | 4 HT 58-28 S | 682.00 | 1.75 | 460.2010 | 460.2005 |
| INSIDE SHOULDER | 303+15 EB - 355+32 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 4 HT 58-28 S | 228.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| OUTSIDE SHOULDER | 303+15 EB - 334+54 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 4 LT 58-28 S | 274.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| A RAMP TAPER | 334+54 EB - 340+05 EB | LOWER LIFT | EXISTING CONCRETE PAVEMENT | 4 HT 58-28 S | 45.00 | 1.75 | 460.2010 | 460.2005 |
| OUTSIDE SHOULDER | 334+54 EB - 340+05 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 4 LT 58-28 S | 30.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| OUTSIDE SHOULDER | 340+05 EB - 353+88 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 4 LT 58-28 S | 121.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| B RAMP TAPER/AUX LANE | 353+88 EB - 355+32 EB | LOWER LIFT | EXISTING CONCRETE PAVEMENT | 4 HT 58-28 S | 22.00 | 1.75 | 460.2010 | 460.2005 |
| OUTSIDE SHOULDER | 353+88 EB - 355+32 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 4 LT 58-28 S | 13.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| RIGHT LANE | 357+53 EB - 741+46 EB | LOWER LIFT | EXISTING CONCRETE PAVEMENT | 4 HT 58-28 S | 5853.00 | 1.75 | 460.2010 | 460.2005 |
| LEFT LANE | 357+53 EB - 741+46 EB | LOWER LIFT | EXISTING CONCRETE PAVEMENT | 4 HT 58-28 S | 5017.00 | 1.75 | 460.2010 | 460.2005 |
| INSIDE SHOULDER | 357+53 EB - 741+46 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 4 HT 58-28 S | 1673.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| OUTSIDE SHOULDER | 357+53 EB - 363+53 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 4 LT 58-28 S | 53.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| AUX LANE | 357+53 EB - 375+87 EB | LOWER LIFT | EXISTING CONCRETE PAVEMENT | 4 HT 58-28 S | 240.00 | 1.75 | 460.2010 | 460.2005 |
| OUTSIDE SHOULDER | 357+53 EB - 375+87 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 4 LT 58-28 S | 108.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| C RAMP TAPER | 357+53 EB - 375+87 EB | LOWER LIFT | EXISTING CONCRETE PAVEMENT | 4 HT 58-28 S | 99.00 | 1.75 | 460.2010 | 460.2005 |
| OUTSIDE SHOULDER | 375+87 EB - 381+14 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 4 LT 58-28 S | 46.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| AUX LANE TAPER | 375+87 EB - 381+14 EB | LOWER LIFT | EXISTING CONCRETE PAVEMENT | 4 HT 58-28 S | 35.00 | 1.75 | 460.2010 | 460.2005 |
| OUTSIDE SHOULDER | 381+14 EB - 741+46 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 4 LT 58-28 S | 3139.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| INSIDE SHOULDER | 340+05 A - 344+70 A | LOWER LIFT | EXISTING HMA PAVEMENT | 4 HT 58-28 S | 26.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| RAMP | 340+05 A - 344+70 A | LOWER LIFT | EXISTING CONCRETE PAVEMENT | 4 HT 58-28 S | 84.00 | 1.75 | 460.2010 | 460.2005 |
| OUTSIDE SHOULDER | 340+05 A - 344+70 A | LOWER LIFT | EXISTING HMA PAVEMENT | 4 LT 58-28 S | 26.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| INSIDE SHOULDER | 349+80 B - 353+88 B | LOWER LIFT | EXISTING HMA PAVEMENT | 4 HT 58-28 S | 23.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| RAMP | 349+80 B - 353+88 B | LOWER LIFT | EXISTING CONCRETE PAVEMENT | 4 HT 58-28 S | 89.00 | 1.75 | 460.2010 | 460.2005 |
| INSIDE SHOULDER | 356+37 C - 363+53 C | LOWER LIFT | EXISTING HMA PAVEMENT | 4 HT 58-28 S | 39.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| RAMP | 356+37 C - 363+53 C | LOWER LIFT | EXISTING CONCRETE PAVEMENT | 4 HT 58-28 S | 133.00 | 1.75 | 460.2010 | 460.2005 |
| CROSSOVER | 337+67 EB - 338+25 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 5 LT 58-28 S | 2.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| CROSSOVER | 385+66 EB - 386+16 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 6 LT 58-28 S | 2.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| CROSSOVER | 466+00 EB - 466+63 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 8 LT 58-28 S | 3.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| CROSSOVER | 522+36 EB - 523+00 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 9 LT 58-28 S | 3.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| CROSSOVER | 616+65 EB - 617+35 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 10 LT 58-28 S | 3.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |
| CROSSOVER | 671+05 EB - 671+70 EB | LOWER LIFT | EXISTING HMA PAVEMENT | 11 LT 58-28 S | 3.00 | 1.75 | 460.2010 | ACCEPTANCE TESTING |

CULVERT PIPE SUMMARY

| | | 522.1024 | 522.1030 | 606.0200 | 608.0324 | 608.0330 | 633.52 | 645.0120 |
|-----------|------------|---|---|---------------|--|--|------------------------|------------------------------|
| | | APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH | APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH | RIPRAP MEDIUM | STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH | STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH | MARKERS CULVERT END | GEOTEXTILE FABRIC TYPE HR |
| STATION | LOCATION | EACH | EACH | CY | LF | LF | EACH | SY |
| | | | | | | | | |
| 431+20 EB | RIGHT | - | 1 | 2 | - | 4 | 1 | 4 |
| 637+75 EB | RIGHT | 1 | - | 2 | 12 | - | 1 | 4 |
| 647+50 EB | RIGHT | 1 | - | 2 | 5 | - | 1 | 4 |
| | | | | | | | | |
| | TOTAL 0010 | 2 | 1 | 6 | 17 | 4 | 3 | 12 |

BEAM GUARD SUMMARY

| | | | | 614.0400 | 614.2500 | 614.2610 | |
|-----------|----|-----------|------------|--|------------------------------|-------------------------------|------------------------------|
| | | | | ADJUSTING STEEL PLATE BEAM GUARD | MGS THRIE BEAM TRANSITION | MGS GUARDRAIL TERMINAL EAT | |
| STATION | TO | STATION | LOCATION | LF | LF | EACH | REMARKS |
| 303+15 EB | - | 306+10 EB | RIGHT | 286 | - | - | |
| 317+25 EB | - | 324+53 EB | RIGHT | 630 | 39 | 1 | |
| 350+93 B | - | 355+32 EB | RIGHT | 375 | 39 | 1 | B RAMP TO BRIDGE OVER USH 12 |
| 352+64 EB | - | 355+32 EB | LEFT | 179 | 39 | 1 | |
| 389+31 EB | - | 407+22 EB | RIGHT | 1,693 | 48 | 1 | |
| 462+05 EB | - | 464+28 EB | RIGHT | 134 | 39 | 1 | CTH A OVERPASS |
| 463+96 EB | - | 465+64 EB | LEFT | 168 | - | - | CTH A OVERPASS |
| 517+44 EB | - | 519+66 EB | RIGHT | 133 | 39 | 1 | GILLEM RD OVERPASS |
| 519+33 EB | - | 521+01 EB | LEFT | 168 | - | - | GILLEM RD OVERPASS |
| 589+25 EB | - | 597+15 EB | RIGHT | 692 | 39 | 1 | |
| 612+87 EB | - | 615+19 EB | RIGHT | 143 | 39 | 1 | CTH T OVERPASS |
| 614+90 EB | - | 616+59 EB | LEFT | 169 | - | - | CTH T OVERPASS |
| 667+09 EB | - | 669+43 EB | RIGHT | 144 | 39 | 1 | VAN HOOSEN RD OVERPASS |
| 669+34 EB | - | 671+02 EB | LEFT | 168 | - | - | VAN HOOSEN RD OVERPASS |
| 710+62 EB | - | 724+95 EB | RIGHT | 1,335 | 39 | 1 | |
| 733+57 EB | - | 741+46 EB | RIGHT | 700 | 39 | 1 | |
| | | | | | | | |
| | | | TOTAL 0010 | 7,117 | 438 | 11 | |

3

EROSION CONTROL SUMMMARY

| SALVAGED SALVAGED SALVAGED SILT FENCE SILT FENCE SILT FENCE SILT FENCE SEROSION SEROSION | |
|---|----------|
| STATION TO STATION LOCATION SY LF LF EACH EACH SY LF CWT LB LB MGAL REMARKS 426+50 EB - 433+00 EB OUTSIDE 3,100 700 700 - - 3,100 20 2 80 - 20 628+50 EB - 641+00 EB OUTSIDE 8,700 1,400 1,400 - - 8,700 40 5 230 - 40 | |
| 426+50 EB - 433+00 EB OUTSIDE 3,100 700 700 3,100 20 2 80 - 20 628+50 EB - 641+00 EB OUTSIDE 8,700 1,400 1,400 8,700 40 5 230 - 40 | |
| 628+50 EB - 641+00 EB OUTSIDE 8,700 1,400 1,400 8,700 40 5 230 - 40 | |
| 628+50 EB - 641+00 EB OUTSIDE 8,700 1,400 1,400 8,700 40 5 230 - 40 | |
| | |
| 646+50 EB - 651+00 EB OUTSIDE 2,800 600 600 2,800 20 2 80 - 20 | |
| | |
| | |
| 350+68 B - 353+37 B OUTSIDE 100 100 - 0 3 - 1 RESTORATION BEHIND NEW CURB AND | D GUTTER |
| 357+27 C - 362+34 C OUTSIDE 200 200 - 0 10 - 2 RESTORATION BEHIND NEW CURB AND | D GUTTER |
| | |
| UNDISTRIBUTED 1,000 1,000 - 1 50 100 20 | |
| | |
| ENTIRE PROJECT 3 3 3 | |
| | |
| TOTAL 0010 15,900 2,700 2,700 3 3 15,900 80 10 453 100 103 | |

TRAFFIC CONTROL SUMMARY

| | | | | | 643.0300 | | 643.0420 | | 643.0705 | | 643.0715 | | 643.0800 | | 643.0900 | | 643.1051 | | 643.1205.S | | 643.4100.S | 643.5000 | |
|-------------------|--------|--------------------|--------------|-------|---------------------------------|------|--|------|--|-------|--|------|--|--------|---------------------------------|------|---|------|---|------|---|-------------------------|----------|
| STATION TO STAT | ATION | LOCATION | SERVICE DAYS | QTY | TRAFFIC CONTROL DRUMS DAY | | TRAFFIC CONTROL BARRICADES TYPE III DAY | | TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY | | TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY | | TRAFFIC CONTROL ARROW BOARDS DAY | QTY | TRAFFIC CONTROL SIGNS DAY | QTY | TRAFFIC CONTROL SIGNS PCMS WITH CELLULAR COMMUNICATIONS DAY | QTY | BASIC TRAFFIC QUEUE WARNING SYSTEM DAY | | RAFFIC CONTROL INTERIM LANE CLOSURE EACH | TRAFFIC CONTROL EACH | REMARKS |
| | | | | | | | | | | | | | | | | | | | | | | | |
| 303+15 EB - 741+1 | +17 EB | LEFT LANE CLOSURE | 9.00 | 59.00 | 531 | 4.00 | 36 | 8.00 | 72 | 14.00 | 126 | 2.00 | 18 | 12.00 | 108 | 2.00 | 18 | 1.00 | 9 | 1.00 | 9 | = | STAGE 1A |
| 303+15 EB - 741+1 | +17 EB | RIGHT LANE CLOSURE | 9.00 | 59.00 | 531 | 4.00 | 36 | 8.00 | 72 | 14.00 | 126 | 2.00 | 18 | 12.00 | 108 | 2.00 | 18 | 1.00 | 9 | 1.00 | 9 | = | STAGE 1B |
| 303+15 EB - 741+1 | +17 EB | LEFT LANE CLOSURE | 5.00 | 98.00 | 490 | 4.00 | 20 | 8.00 | 40 | 14.00 | 70 | 2.00 | 10 | 12.00 | 60 | 2.00 | 10 | 1.00 | 5 | 1.00 | 5 | = | STAGE 2A |
| 303+15 EB - 741+1 | +17 EB | RIGHT LANE CLOSURE | 7.00 | 73.00 | 511 | 4.00 | 28 | 8.00 | 56 | 14.00 | 98 | 2.00 | 14 | 12.00 | 84 | 2.00 | 14 | 1.00 | 7 | 1.00 | 7 | = | STAGE 2B |
| | | RAMP DETOURS | 2.00 | | = | | = | | = | | = | | = | 132.00 | 264 | | Ξ | | = | | = | = | STAGE 2A |
| 303+15 EB - 741+1 | +17 EB | LEFT LANE CLOSURE | 5.00 | 98.00 | 490 | 4.00 | 20 | 8.00 | 40 | 14.00 | 70 | 2.00 | 10 | 12.00 | 60 | 2.00 | 10 | 1.00 | 5 | 1.00 | 5 | - | STAGE 2C |
| 303+15 EB - 741+1 | +17 EB | RIGHT LANE CLOSURE | 9.00 | 59.00 | 531 | 4.00 | 36 | 8.00 | 72 | 14.00 | 126 | 2.00 | 18 | 12.00 | 108 | 2.00 | 18 | 1.00 | 9 | 1.00 | 9 | = | STAGE 2D |
| | | RAMP DETOURS | 2.00 | | = | | = | | = | | = | | = | 94.00 | 188 | 3.00 | 6 | | = | | = | = | STAGE 2D |
| 303+15 EB - 741+1 | +17 EB | | | | = | | = | | = | | = | | = | | = | | Ξ | | = | | = | 1 | |
| 350+68 B - 353+ | +88 B | B RAMP | 5.00 | 9.00 | 45 | | = | | = | | = | | = | | = | | Ξ | | = | | = | = | CURB |
| 356+37 C - 363+ | +53 C | C RAMP | 5.00 | 5.00 | 25 | | - | | - | | - | | - | | - | | = | | - | | - | - | CURB |
| | | TOTAL 0010 | | | 3,154 | - | 176 | - | 352 | | 616 | - | 88 | - | 980 | • | 94 | | 44 | _ | 44 | 1 | |

| F | PROJECT NO: 1014-00-77 | HWY: IH 90/94 | COUNTY: SAUK | MISCELLANEOUS QUANTITIES | SHEET: | E |
|---|------------------------|---------------|--------------|--------------------------|--------|---|
|---|------------------------|---------------|--------------|--------------------------|--------|---|

3

PAVEMENT MARKING SUMMARY

| | | | | 646.1040 | 646.3555 | 646.9400 | 649.0105 | |
|-----------|----|-----------|----------------|---|---|--|---|---|
| | | | | MARKING LINE GROOVED WET REF EPOXY 4-INCH | MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8- INCH | MARKING REMOVAL PLOWABLE RAISED PAVEMENT MARKERS | TEMPORARY MARKING LINE PAINT 4-INCH | |
| STATION | TO | STATION | LOCATION | LF | LF | EACH | LF | REMARKS |
| 303+15 EB | _ | 340+05 EB | RIGHT EDGELINE | 3690 | _ | _ | 7380 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 303+15 EB | _ | 355+32 EB | LEFT EDGELINE | 5217 | - - | - | 10434 | YELLOW: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 303+15 EB | _ | 355+32 EB | CENTERLINE | 1326 | - | 25 | 2652 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 334+54 EB | _ | 340+05 EB | MINI SKIPS | 105 | - | - | 210 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 340+05 EB | _ | 342+04 EB | RIGHT EDGELINE | - | 199 | _ | 398 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 342+04 EB | _ | 352+18 EB | RIGHT EDGELINE | 1014 | - | - | 2028 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 352+18 EB | - | 353+88 EB | RIGHT EDGELINE | - | 170 | - | 340 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 353+88 EB | - | 355+32 EB | RIGHT EDGELINE | 144 | - | - | 288 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 353+88 EB | - | 355+32 EB | MINI SKIPS | - | 36 | - | 72 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 357+53 EB | - | 361+76 EB | RIGHT EDGELINE | 423 | - | - | 846 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 357+53 EB | - | 741+46 EB | LEFT EDGELINE | 38393 | - | - | 76786 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 357+53 EB | - | 741+46 EB | CENTERLINE | 9600 | - | 385 | 19200 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 357+53 EB | - | 375+81 EB | MINI SKIPS | - | 457 | - | 914 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 361+76 EB | - | 363+53 EB | RIGHT EDGELINE | - | 177 | - | 354 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 363+53 EB | - | 741+46 EB | RIGHT EDGELINE | 37793 | - | - | 75586 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 363+53 EB | - | 366+65 EB | GORE | 312 | - | - | 624 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 366+65 EB | - | 370+15 EB | SKIPS | 88 | - | - | 176 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 240.05 4 | | 244.70 4 | DICHT EDGELINE | ACE | | | 020 | WHITE, LIDDED AND LOWED TEMPODARY FINAL CROOVED |
| 340+05 A | - | 344+70 A | RIGHT EDGELINE | 465 | - | - | 930 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 340+05 A | - | 342+12 A | LEFT EDGELINE | - | 207 | - | 828 | GORE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 340+05 A | - | 342+12 A | GORE | - | 100 | - | 200 | GORE CHEVRONS: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 342+12 A | - | 344+70 A | LEFT EDGELINE | 258 | - | - | 516 | YELLOW: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 349+80 B | - | 353+88 B | RIGHT EDGELINE | 408 | - | - | 816 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 349+80 B | - | 352+26 B | LEFT EDGELINE | 246 | - | - | 492 | YELLOW: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 352+18 B | - | 353+88 B | LEFT EDGELINE | - | 170 | - | 340 | GORE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 356+37 C | - | 363+53 C | RIGHT EDGELINE | 716 | _ | _ | 1,432 | WHITE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 356+37 C | _ | 361+81 C | LEFT EDGELINE | 544 | - | _ | 1,088 | YELLOW: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 361+81 C | _ | 363+53 C | LEFT EDGELINE | - | 172 | _ | 344 | GORE: UPPER AND LOWER TEMPORARY, FINAL GROOVED |
| 3011010 | | 303133 C | LEI I EDGLEINE | | 1/2 | | 344 | GONE. OTTER AND LOWER TEINITONARY, TINAL GROOVED |
| | | | UNDISTRIBUTED | - | - | - | 928 | YELLOW: BASE PATCHING |
| | | | UNDISTRIBUTED | - | - | - | 2,847 | WHITE: BASE PATCHING |
| | | | TOTAL 0010 | 100,742 | 1,688 | 410 | 209,049 | |
| | | | | • | • | | • | |

3

CONSTRUCTION STAKING SUMMARY

| | | | | 650.5500 | 650.6000 | 650.8000 | 650.9910.01 | 650.9920 | |
|------------------------|--------|------------------------|------------|---|--|---|--|---|---------|
| | | | | CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER | CONSTRUCTION STAKING PIPE CULVERTS | CONSTRUCTION STAKING RESURFACING REFERENCE | CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (1014- 00-77) | CONSTRUCTION STAKING SLOPE STAKES | |
| STATION | TO | STATION | LOCATION | LF | EACH | LF | LS | LF | REMARKS |
| 303+15 EB 357+53 EB | - - | 355+32 EB 741+46 EB | | - - - | - - - | - 5,217 38,393 | 1 - | - - - | |
| 426+50 EB | - | 433+00 EB | | - | 2 | - | - | 650 | |
| 628+50 EB | - | 641+00 EB | | - | 1 | - | - | 1,250 | |
| 646+50 EB | - | 651+00 EB | | - | 1 | - | - | 450 | |
| 340+05 A | - | 344+70 A | | - | - | - | - | - | |
| 350+68 B | - | 353+88 B | | 320 | - | - | - | - | |
| 356+37 C | - | 363+53 C | | 716 | - | - | - | - | |
| | | | TOTAL 0010 | 1,036 | 4 | 43,610 | 1 | 2,350 | |

SPV.0060.01

VERIFY LANDMARK

| | REFERENCE MONUMENTS |
|------------|---------------------|
| LOCATION | EACH |
| | |
| OUTSIDE | 1 |
| | |
| TOTAL 0010 | 4 |

PROJECT NO: 1014-00-77 HWY: IH 90/94 COUNTY: SAUK MISCELLANEOUS QUANTITIES SHEET: **E**

STATION

383+27 EB

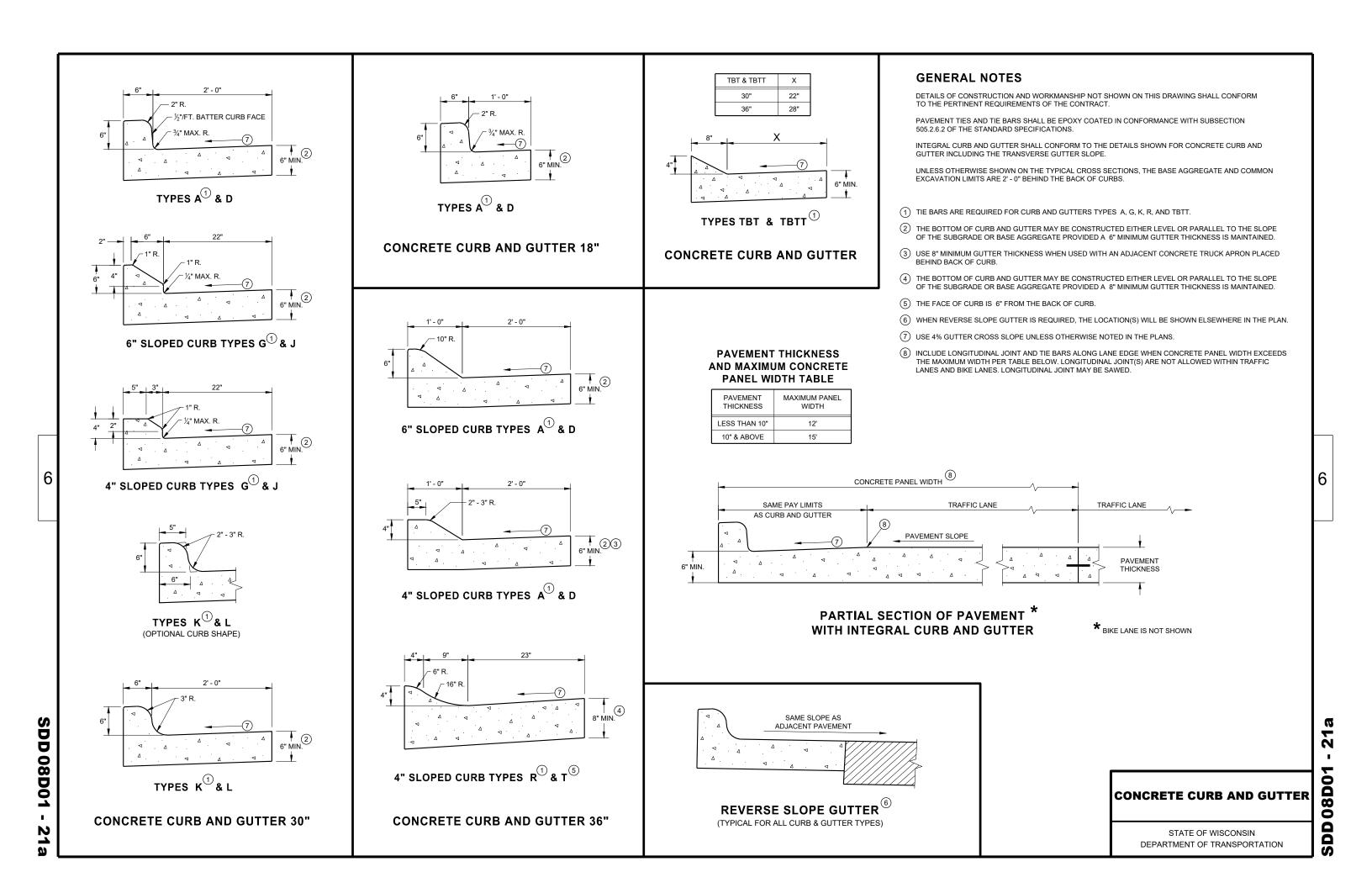
575+06 EB

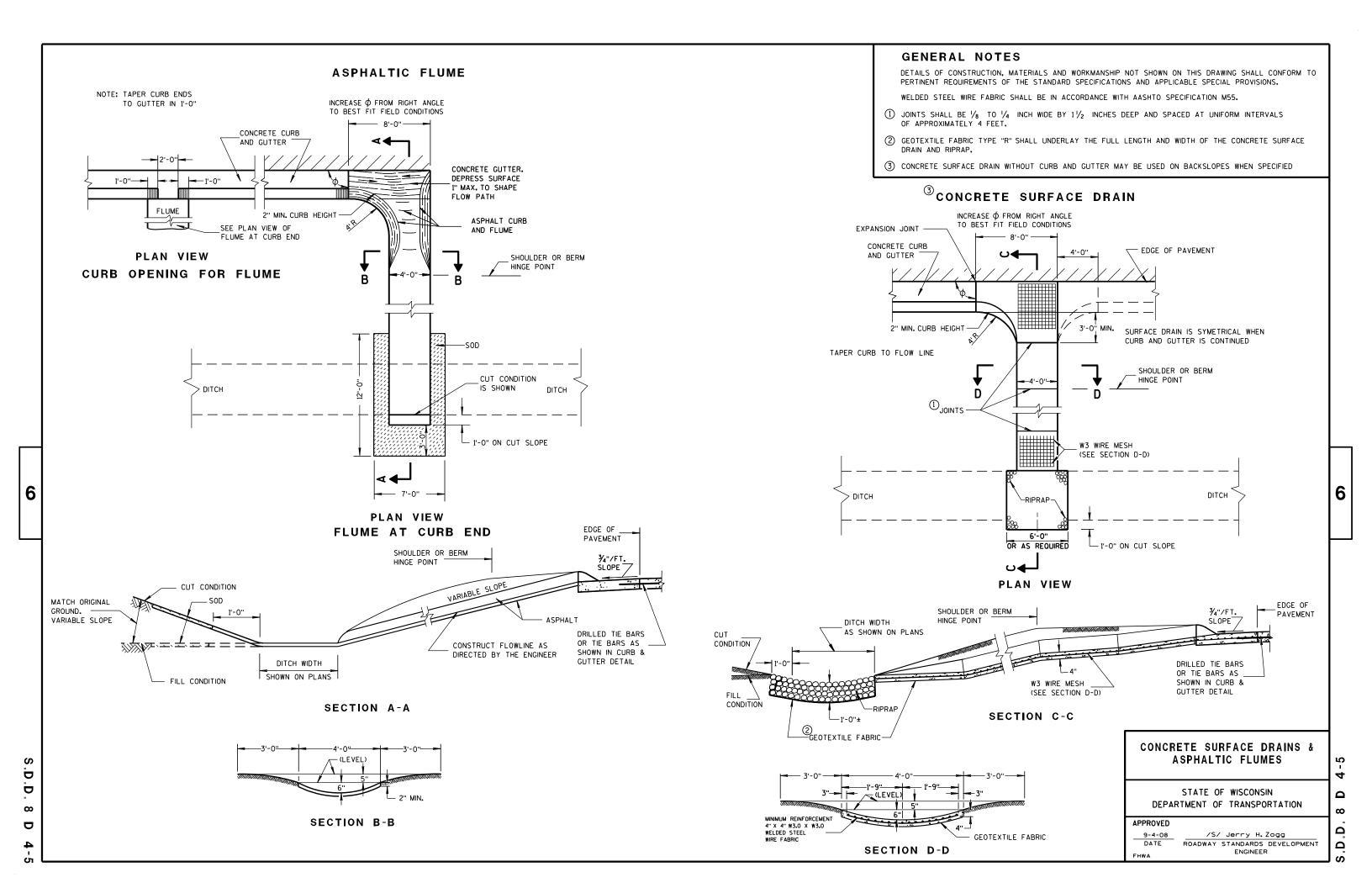
575+24 EB

736+68 EB

Standard Detail Drawing List

| 08D01-21A 08D04-05 | CONCRETE CURB & GUTTER CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES |
|------------------------|--|
| 08E08-03 | TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS |
| 08E09-06 | SILT FENCE |
| 08F01-11 | APRON ENDWALLS FOR CULVERT PIPE |
| 13A05-05A | SHOULDER RUMBLE STRIP, MILLING |
| 13A05-05B | SHOULDER RUMBLE STRIP, MILLING |
| 13C08-02 | CONCRETE PAVEMENT PARTIAL DEPTH REPAIR |
| 13C14-07A | BASE PATCHING CONCRETE |
| 13C14-07B 13C14-07C | BASE PATCHING CONCRETE BASE PATCHING CONCRETE |
| 13014-070 | HMA LONGITUDINAL JOINTS |
| 14B42-06A | MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL |
| 14B42-06B | MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL |
| 14B42-06C | MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL |
| 14B42-06D | MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL |
| 14B43-04A | MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) |
| 14B43-04B | MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) |
| 14B43-04C | MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) |
| 14B44-04A | MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS) |
| 14B44-04B | MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS) |
| 14B44-04C | MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS) |
| 14B45-05A | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-05B | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-05C | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-05D | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-05E | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-05F | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-05G | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-05H | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-05I | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-05J | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-05K | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 14B45-05L | MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) |
| 15A03-02A | FLEXIBLE MARKER POST FOR CULVERT END |
| 15A03-02B | FLEXIBLE MARKER POST FOR CULVERT END |
| 15C02-08D | ON RAMP LANE CLOSURE |
| 15C02-08E | OFF RAMP LANE CLOSURE |
| 15C02-08F | ADVANCED WIDTH RESTRICTION SIGNING |
| 15C08-20A | LONGI TUDI NAL MARKI NG (MAI NLI NE) |
| 15C31-03A | PAVEMENT MARKING (RAMPS AND GORES) |
| 15D12-09B | TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION |
| 15D12-09D | TRAFFIC CONTROL, LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM |
| 15D15-05B | TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE |
| 15D15-05E | TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE |
| 15D16-04 | TRAFFIC CONTROL, EXIT RAMP CLOSURE |
| 15D28-04 | TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY |
| 15D38-02A | TEMPORARY TRAFFIC CONTROL SIGN MOUNTING |
| 15D38-02B | ATTACHMENT OF SIGNS TO POSTS |
| 15D39-02 | TRAFFIC CONTROL, DROP-OFF SIGNING |

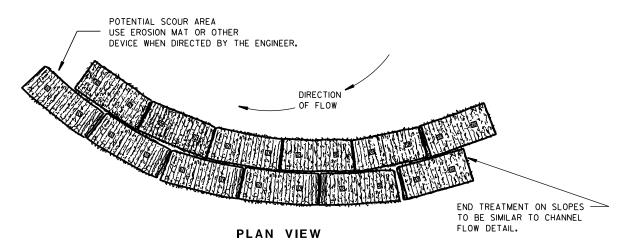




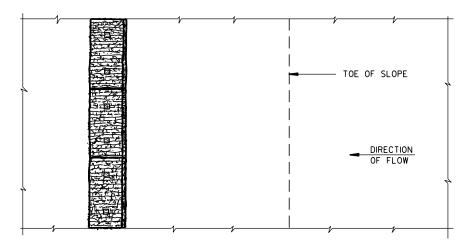
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

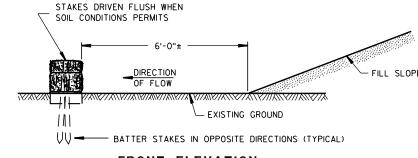
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

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| | METAL APRON ENDWALLS | | | | | | | | | | | | |
|-------|----------------------|--------------|-------|---------------------|-------|--------|----|----------------|-------|------------------------------------|-------|--|--|
| PIPE | MIN. 1 | THICK. | | DIMENSIONS (Inches) | | | | | | | | | |
| DIA. | (Incl | | A | В | Н | L | Li | L ₂ | W | APPROX. | BODY | | |
| (IN.) | STEEL | ALUM. | (±]") | (MAX.) | (±]") | (±1½") | ① | 0 | (±2") | | | | |
| 12 | .064 | .060 | 6 | 6 | 6 | 21 | 12 | 171/2 | 24 | 21/2+o 1 | 1Pc. | | |
| 15 | .064 | .060 | 7 | 8 | 6 | 26 | 14 | 213/4 | 30 | 2½+o 1 | 1Pc. | | |
| 18 | .064 | .060 | 8 | 10 | 6 | 31 | 15 | 281/4 | 36 | 2½+o 1 | 1Pc. | | |
| 21 | .064 | .060 | 9 | 12 | 6 | 36 | 18 | 29% | 42 | $2\frac{1}{2}$ to 1 | 1Pc. | | |
| 24 | .064 | . 075 | 10 | 13 | 6 | 41 | 18 | 371/4 | 48 | $2\frac{1}{2}$ to 1 | 1Pc. | | |
| 30 | .079 | . 075 | 12 | 16 | 8 | 51 | 18 | 521/4 | 60 | $2\frac{1}{2}$ to 1 | 1Pc. | | |
| 36 | .079 | . 105 | 14 | 19 | 9 | 60 | 24 | 59¾ | 72 | $2\frac{1}{2}$ to 1 | 2 Pc. | | |
| 42 | .109 | . 105 | 16 | 22 | 11 | 69 | 24 | 75% | 84 | $2\frac{1}{2}$ to 1 | 2 Pc. | | |
| 48 | .109 | .105 | 18 | 27 | 12 | 78 | 24 | 81 | 90 | 2 ¹ / ₄ +o 1 | 3 Pc. | | |
| 54 | .109 | . 105 | 18 | 30 | 12 | 84 | 30 | 851/2 | 102 | 21/4+0 1 | 3 Pc. | | |
| 60 | .109× | .105× | 18 | 33 | 12 | 87 | _ | | 114 | 2 to 1 | 3 Pc. | | |
| 66 | .109× | .105× | 18 | 36 | 12 | 87 | _ | _ | 120 | 2 to 1 | 3 Pc. | | |
| 72 | .109× | .105× | 18 | 39 | 12 | 87 | _ | _ | 126 | 2 to 1 | 3 Pc. | | |
| 78 | .109× | .105× | 18 | 42 | 12 | 87 | _ | _ | 132 | 11/2+0 1 | 3 Pc. | | |
| 84 | .109× | | 18 | 45 | 12 | 87 | _ | _ | 138 | 1/2+0 1 | 3 Pc. | | |
| 90 | .109× | .105× | 18 | 37 | 12 | 87 | _ | _ | 144 | 1/2+0 1 | 3 Pc. | | |
| 96 | .109× | .105× | 18 | 35 | 12 | 87 | _ | | 150 | 11/2+0 1 | 3 Pc. | | |

* EXCEPT CENTER PANEL

SEE GENERAL NOTES

PLAN VIEW

END VIEW

SIDE ELEVATION

METAL ENDWALLS

SHOULDER

SLOPE

| | REINFORCED CONCRETE APRON ENDWALLS | | | | | | | | | | | | |
|------|------------------------------------|---------------|---------------|--|---|-----|------|----------|--|--|--|--|--|
| PIPE | | | DIM | ENSIONS | (Inches) | | | APPROX. | | | | | |
| DIA. | Т | A | В | С | D | E | G | SLOPE | | | | | |
| 12 | 2 | 4 | 24 | 48 1/8 | 721/8 | 24 | 2 | 3 to 1 | | | | | |
| 15 | 21/4 | 6 | 27 | 46 | 73 | 30 | 21/4 | 3 to 1 | | | | | |
| 18 | 21/2 | 9 | 27 | 46 | 73 | 36 | 21/2 | 3 to 1 | | | | | |
| 21 | 23/4 | 9 | 36 | 371/2 | 731/2 | 42 | 23/4 | 3 to 1 | | | | | |
| 24 | 3 | 91/2 | 431/2 | 30 | 731/2 | 48 | 3 | 3 to 1 | | | | | |
| 27 | 31/4 | 101/2 | $49^{1}/_{2}$ | 24 | 731/2 | 54 | 31/4 | 3 to 1 | | | | | |
| 30 | $3\frac{1}{2}$ | 12 | 54 | 193⁄4 | 731/2 | 60 | 31/2 | 3 to 1 | | | | | |
| 36 | 4 | 15 | 63 | 34¾ | 97¾ | 72 | 4 | 3 to 1 | | | | | |
| 42 | $4\frac{1}{2}$ | 21 | 63 | 35 | 98 | 78 | 41/2 | 3 to 1 | | | | | |
| 48 | 5 | 24 | 72 | 26 | 98 | 84 | 5 | 3 to 1 | | | | | |
| 54 | 51/2 | | 65 | * ** 33 ¹ / ₄ -35 | * 98 ¹ / ₄ - 100 | 90 | 51/2 | 2% to 1 | | | | | |
| 60 | 6 | * ** 30-35 | 60 | 39 | 99 | 96 | 5 | 2 to 1 | | | | | |
| 66 | 61/2 | | * ** 72-78 | * * * 21-27 | 99 | 102 | 51/2 | 2 to 1 | | | | | |
| 72 | 7 | * ** 24-36 | 78 | 21 | 99 | 108 | 6 | 2 to 1 | | | | | |
| 78 | 71/2 | * ** 24-36 | 78 | 21 | 99 | 114 | 61/2 | 2 to 1 | | | | | |
| 84 | 8 | 36 | 901/2 | 21 | 1111/2 | 120 | 61/2 | 11/2+0 1 | | | | | |
| 90 | 81/2 | 41 | 871/2 | 24 | 1111/2 | 132 | 61/2 | 11/2+0 1 | | | | | |

*MINIMUM

PLAN

END VIEW

END SECTION

GROOVED END ON OUTLET END SECTION TONGUE END ON INLET END SECTION

BAR OR STEEL FABRIC

REINFORCEMENT

LONGITUDINAL SECTION

CONCRETE ENDWALLS

OPTIONAL

1 1/2" R

CULVERT

MEASURED LENGTH

OF CULVERT (TO-

NEAREST FOOT)

DESIGN

REINFORCED

SECTION A-A)

END CORNER PLATES MAY

BE FASTENED TO APRON

THE SURFACES TIGHTLY

TOGETHER

PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD

TOE PLATE (SAME THICKNESS

AND METAL AS APRON) SHALL

BE FURNISHED WHEN CALLED

FOR ON THE PLANS

FDGE (SFE

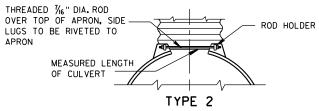
END SECTION CONNECTOR STRAP LUG

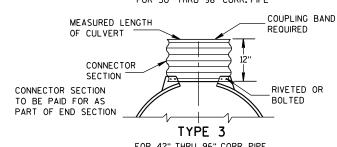
1" WIDE, 12 GA. (0.109"

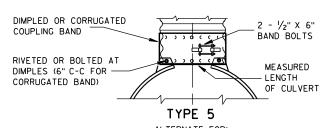
THICK) GALVANIZED STRAP

WITH STANDARD 6" X 1/2" BAND BOLT AND NUT

TYPE 1 FOR 12" THRU 24" CORR. PIPE





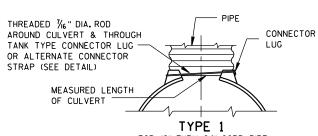


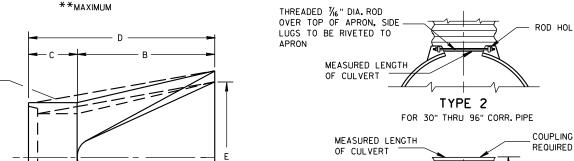
ALTERNATE FOR: ALL SIZES CORRUGATED CIRCULAR PIPE

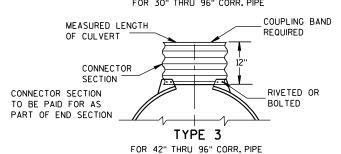
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

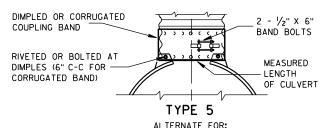
CONNECTION DETAILS 1, 2 OR 5.

ALTERNATE FOR TYPE 1 CONNECTION







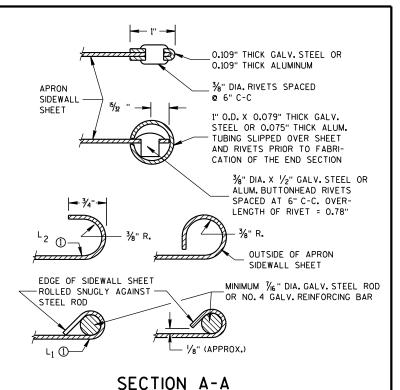


FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

FOR HELICALLY CORRUGATED PIPE USE ENDWALL

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

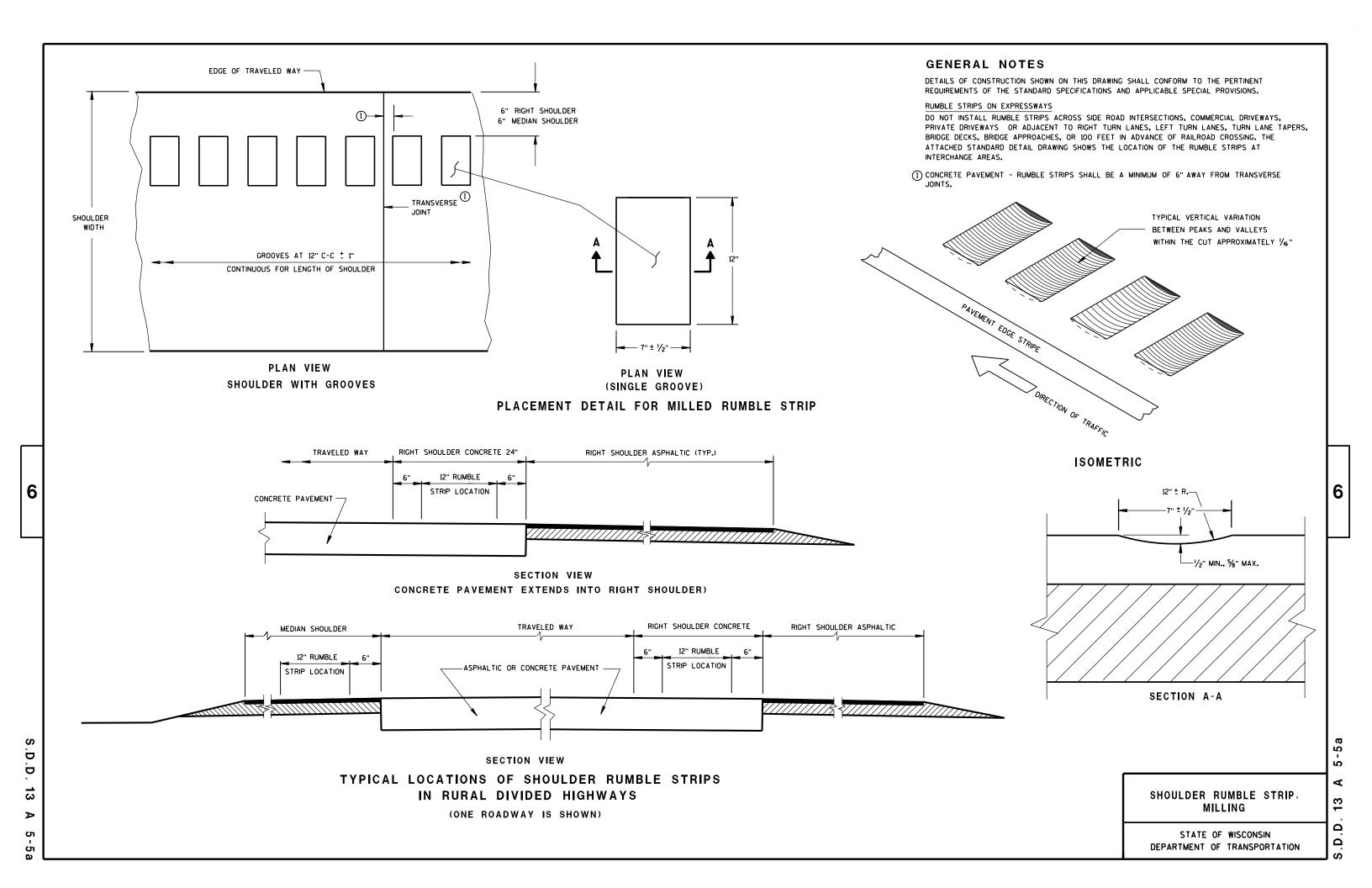
11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER

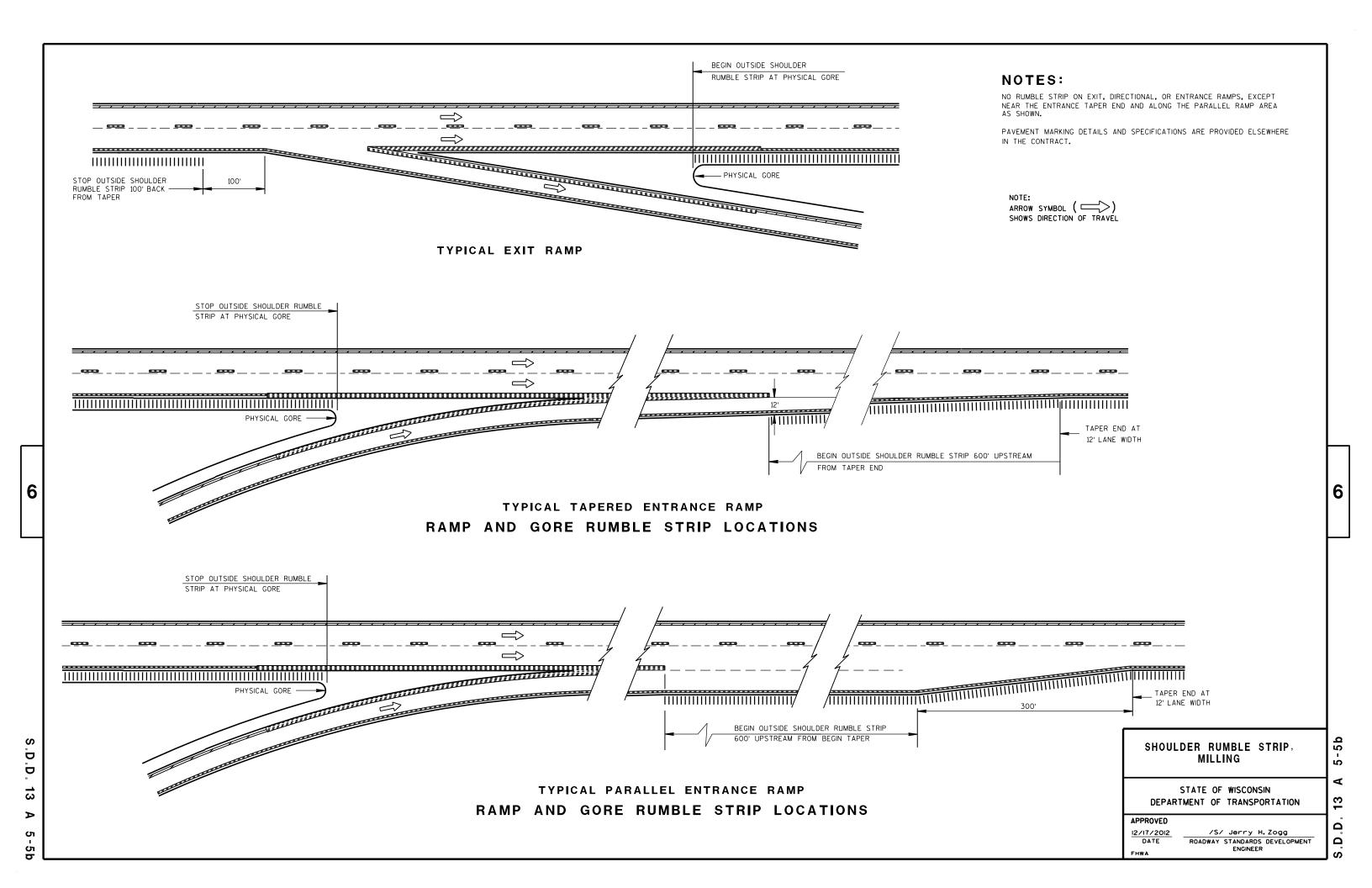
END CORNER

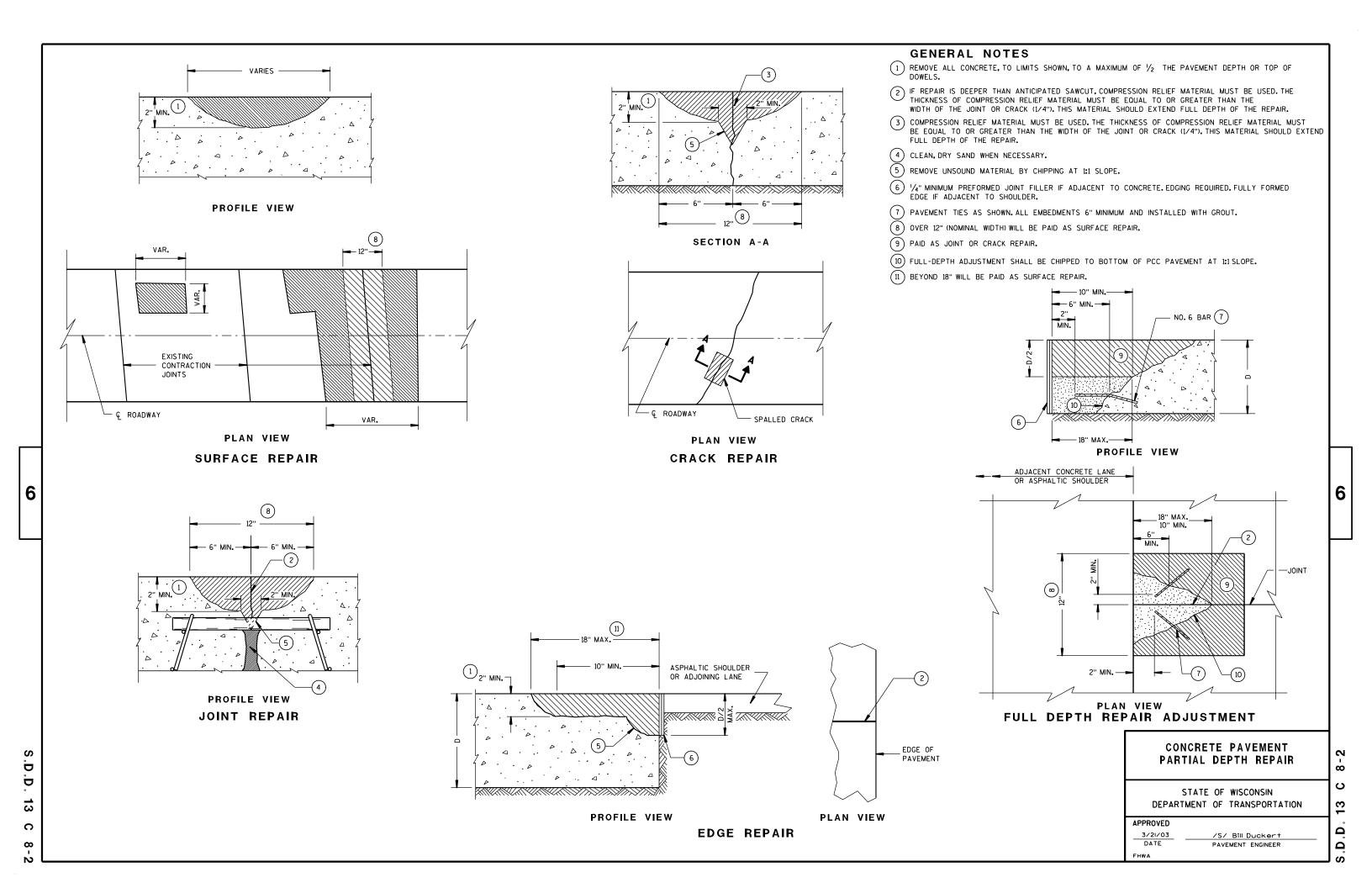
1/16" DIA. HOLES FOR

BOLTS OR RIVETS -

12" C-C MAX. SPACING



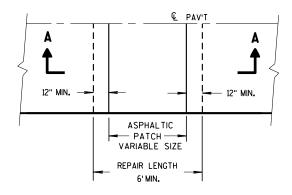




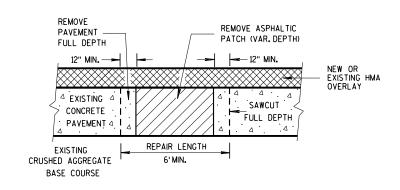
PROVIDE 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

1 DOWEL BARS MIGHT NOT EXIST.

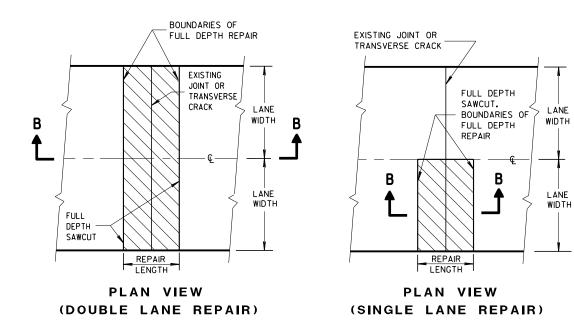


PLAN VIEW

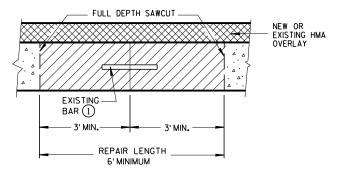


SECTION A-A

HMA PATCH REMOVAL



FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION B-B

CONCRETE REMOVAL

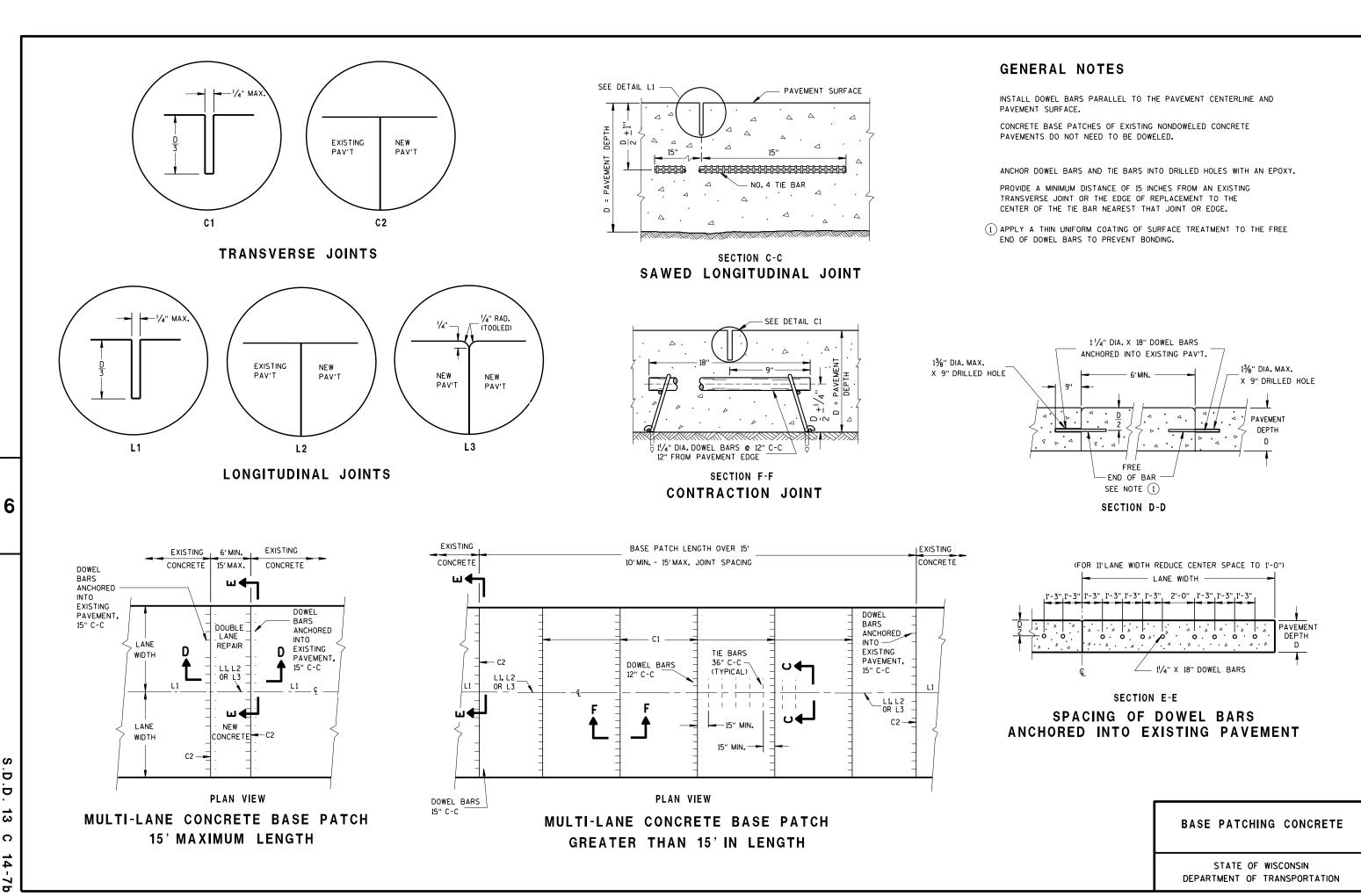
BASE PATCHING CONCRETE

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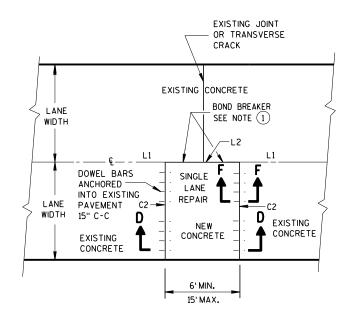
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

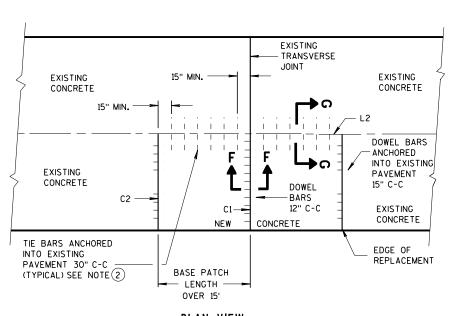


S.D.D. 13 C 14-7

TIE BARS ANCHORED INTO EXISTING PAVEMENT



PLAN VIEW SINGLE LANE CONCRETE BASE PATCH 15' MAXIMUM LENGTH



PLAN VIEW SINGLE LANE CONCRETE BASE PATCH GREATER THAN 15' IN LENGTH

GENERAL NOTES

- (1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE BASE PATCHES UP TO 15 FEET IN LENGTH.
- 2) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, DRILLED TIE BARS MAY BE INSTALLED ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR, DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
- (3) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

BASE PATCHING CONCRETE

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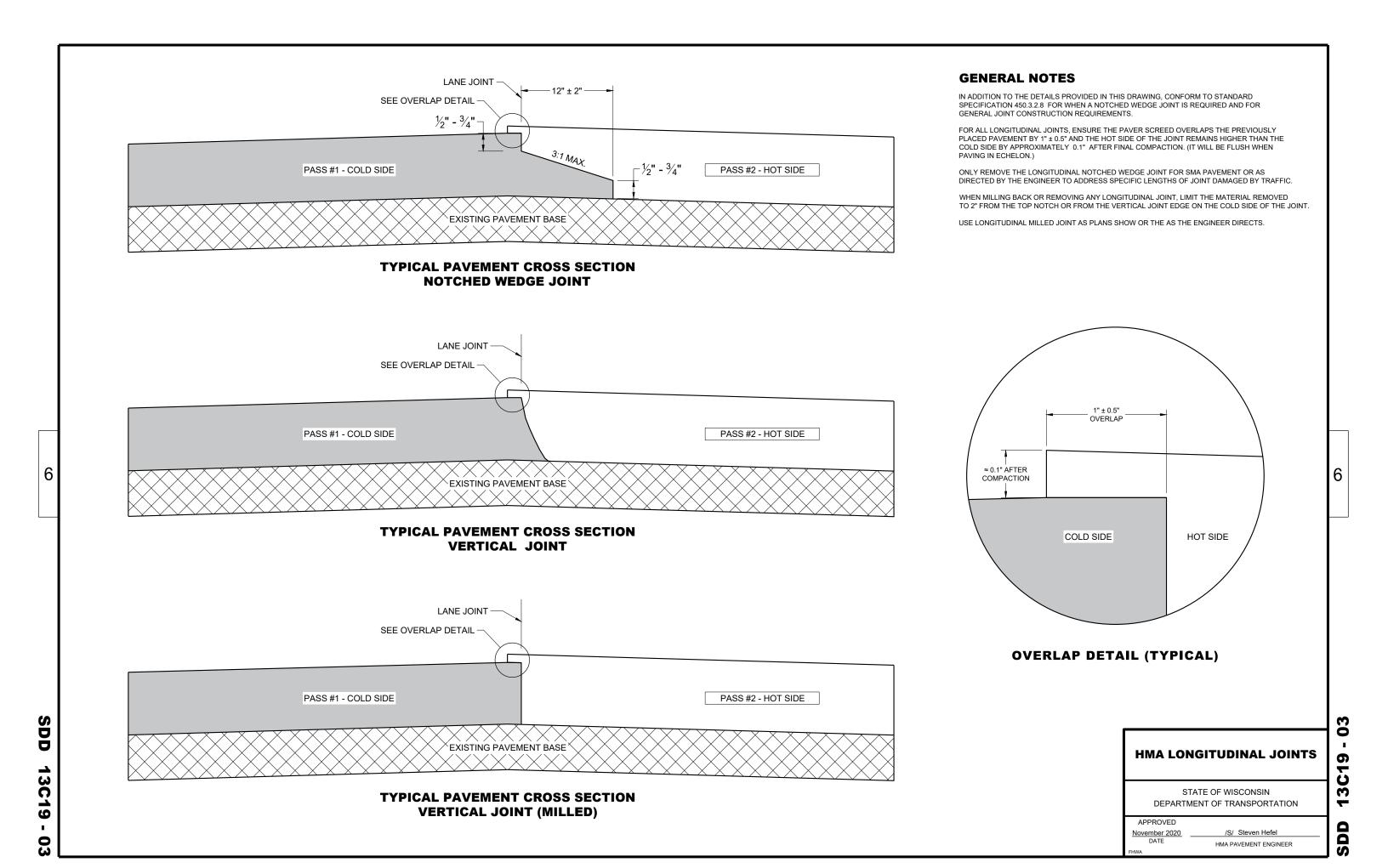
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

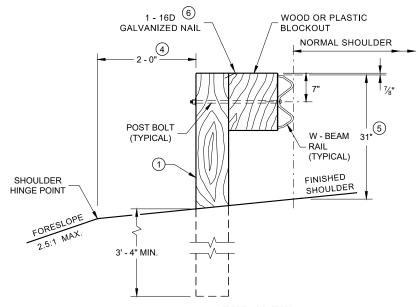
APPROVED

/S/ Peter Kemp, P.E. March 2018 DATE PAVEMENT SUPERVISOR FHWΔ

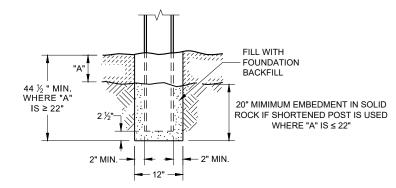
D



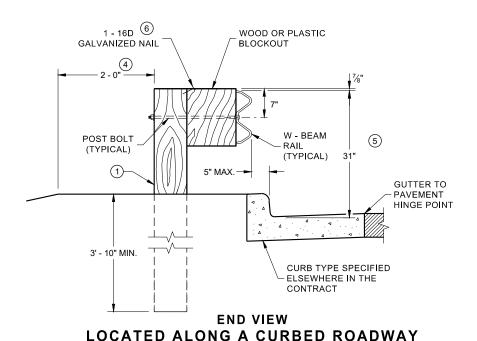
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- $\ \, \ \,$ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE
- 4 WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- $_{\mbox{\scriptsize (5)}}$ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS +1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 $^3\!4''$ TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

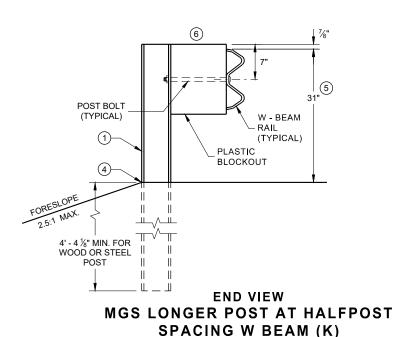


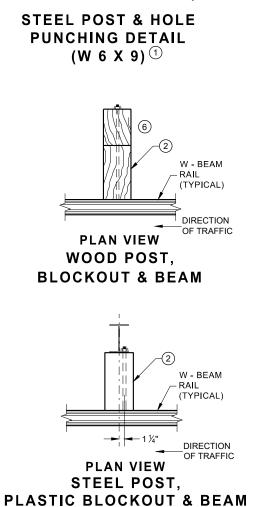
END VIEW LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION

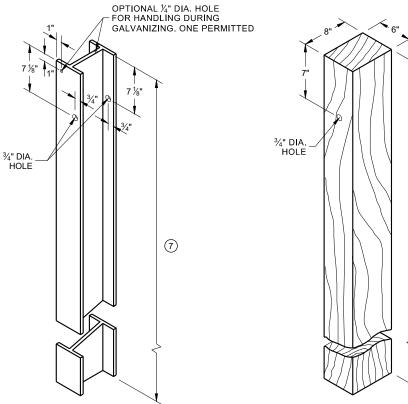


END VIEW SETTING STEEL OR WOOD POST IN ROCK

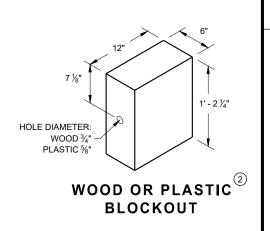








WOOD POST (6" X 8") NOMINAL



MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION SD

FRONT VIEW HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

3' 1½" C -C 3' 1½" C - C POST SPACING POST SPACING

6' 3" C - C

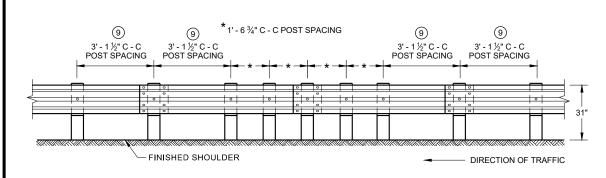
POST SPACING

DIRECTION OF TRAFFIC

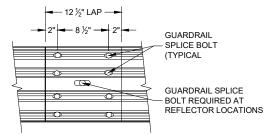
6' - 3" C -C

POST SPACING

FINISHED SHOULDER

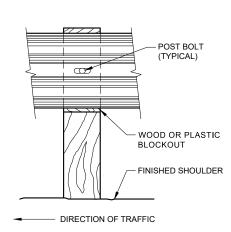


FRONT VIEW **QUARTER POST SPACING (QS)**



FRONT VIEW MID-SPAN BEAM SPLICE

FRONT VIEW AT STEEL POST



GENERAL NOTES

OF QUARTER POST SPACING.

RECESSED (DR) HEAVY HEX NUT.

OF THE ENERGY ABSORBING TERMINAL.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END

(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS

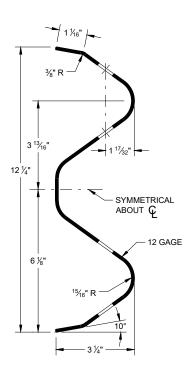
POST BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT

GUARD RAIL SPLICE BOLTS ARE A %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES %" DIAMETER A563A DOUBLE

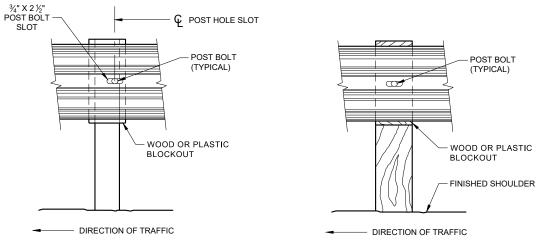
REQUIRES %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND %"

DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



4" X 12" DELINEATOR REFLECTOR (REFER TO SDD 15A4 FOR DELINEATOR SPACING) WOOD OR PLASTIC BLOCKOUT MOUNT WITH TWO 3/16" X 2 1/2" TRIPLE COATED SCREWS WITH WASHERS WOOD OR STEEL POST - DIRECTION OF TRAFFIC

ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

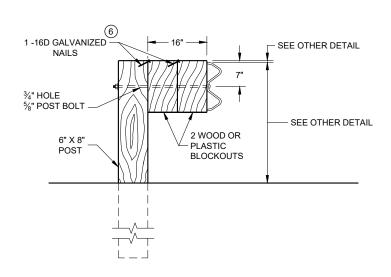
> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

90

<u>4</u>

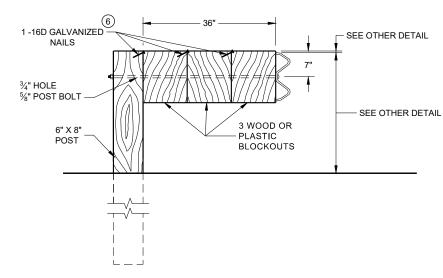
SDD

6



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



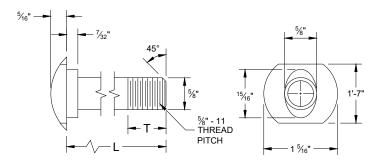
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

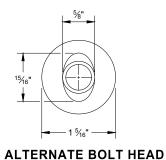
NOTE:

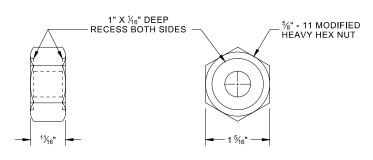
- 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{3}{16}$ ".
- 2. IF THE BOLT EXTENDS MORE THAN $\mbox{\ensuremath{\mbox{\sc M}}}\mbox{\sc "}\mbox{\sc FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.}$



POST BOLT TABLE

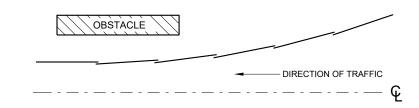
| L | T (MIN.) |
|--------|----------|
| 1 1⁄4" | 1 1/4" |
| 2" | 1 3/4" |
| 10" | 4" |
| 14" | 4 1/16" |
| 18" | 4" |
| 21" | 4 1/16" |
| 25" | 4" |



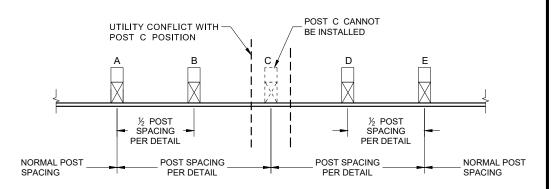


POST BOLT, SPLICE BOLT AND RECESS NUT

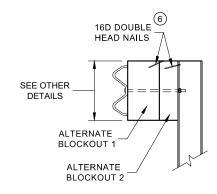
WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

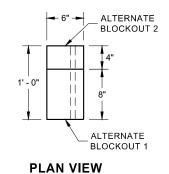


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

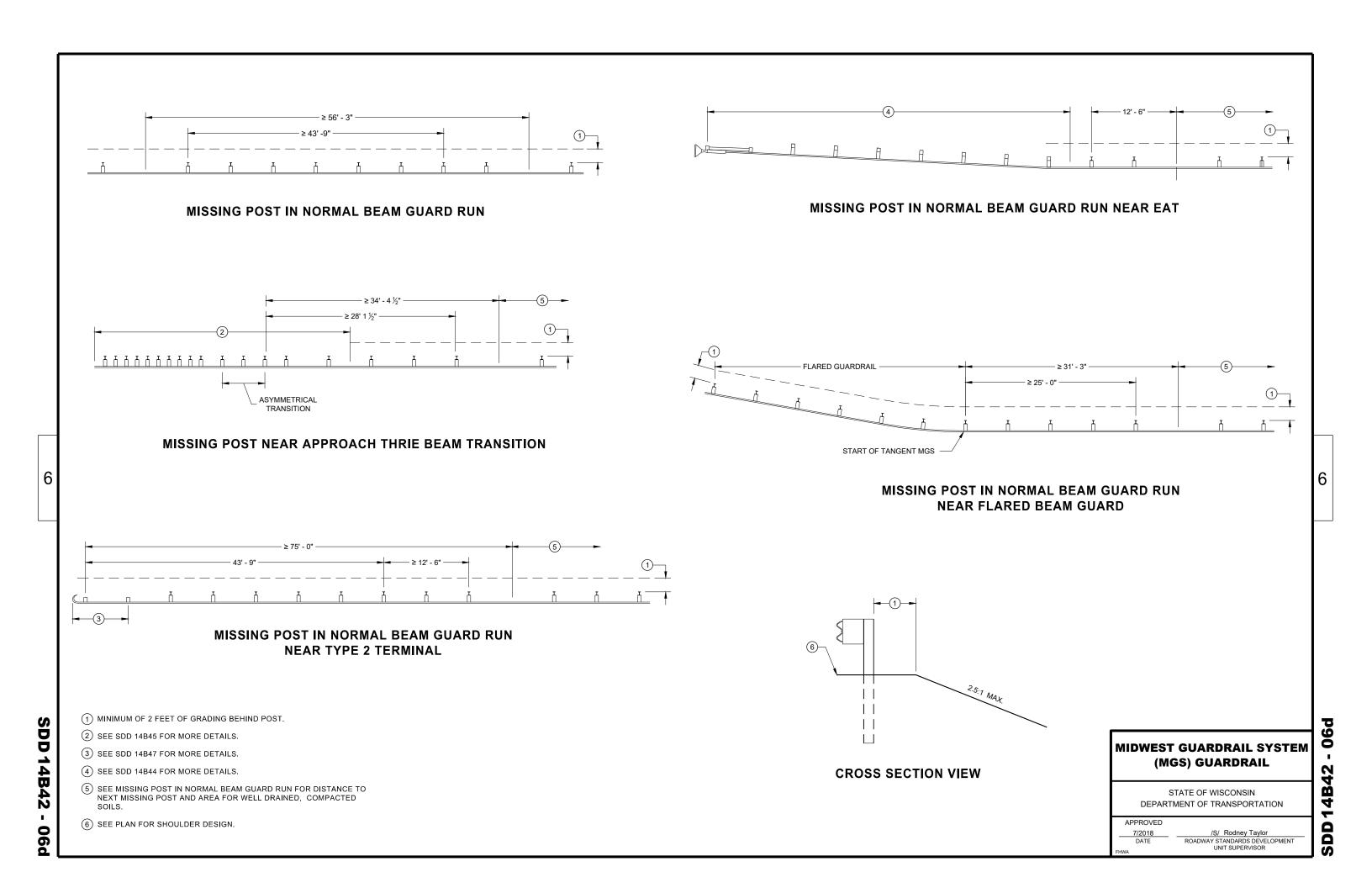
ALTERNATE WOOD BLOCKOUT DETAIL

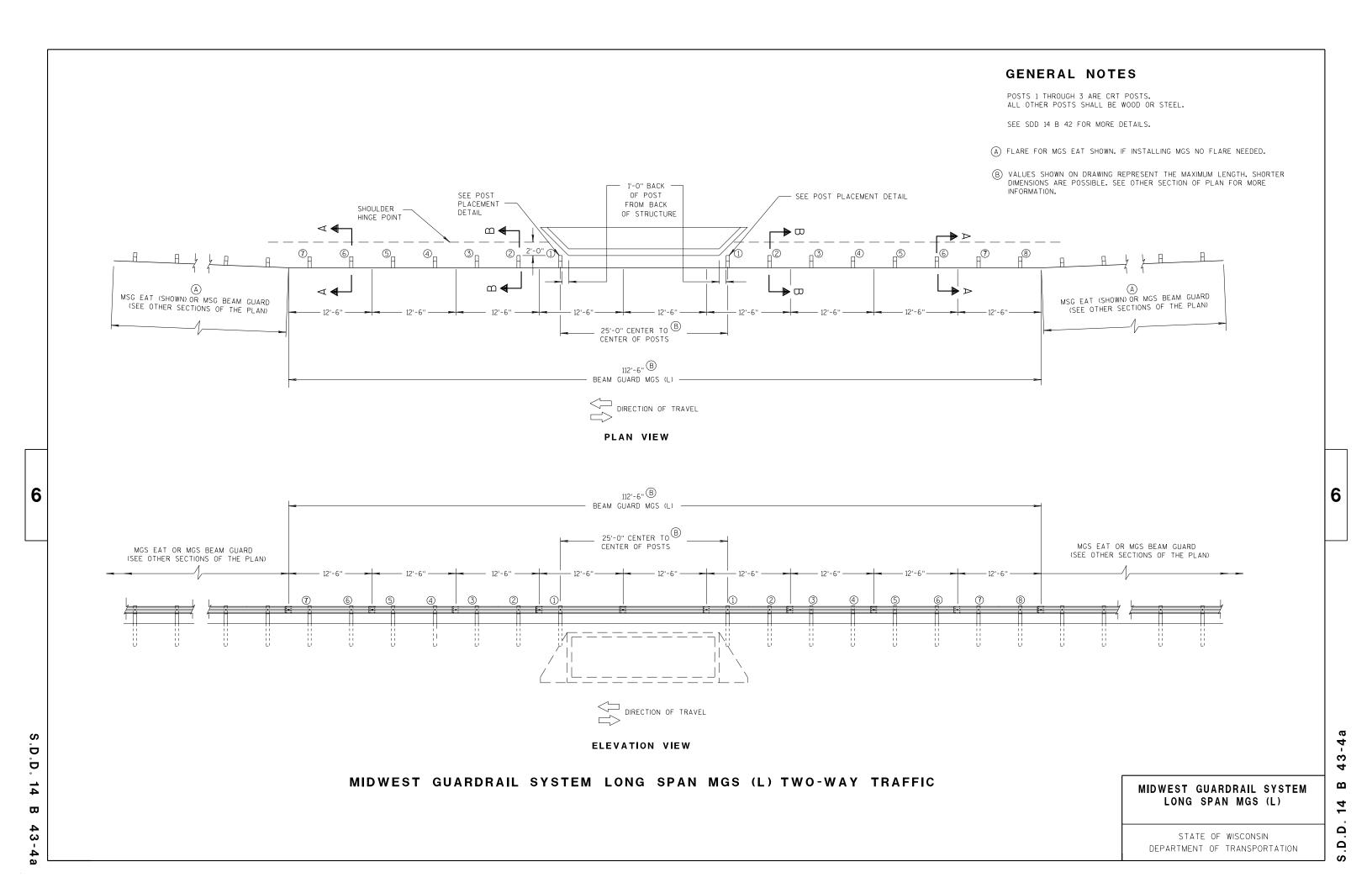
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

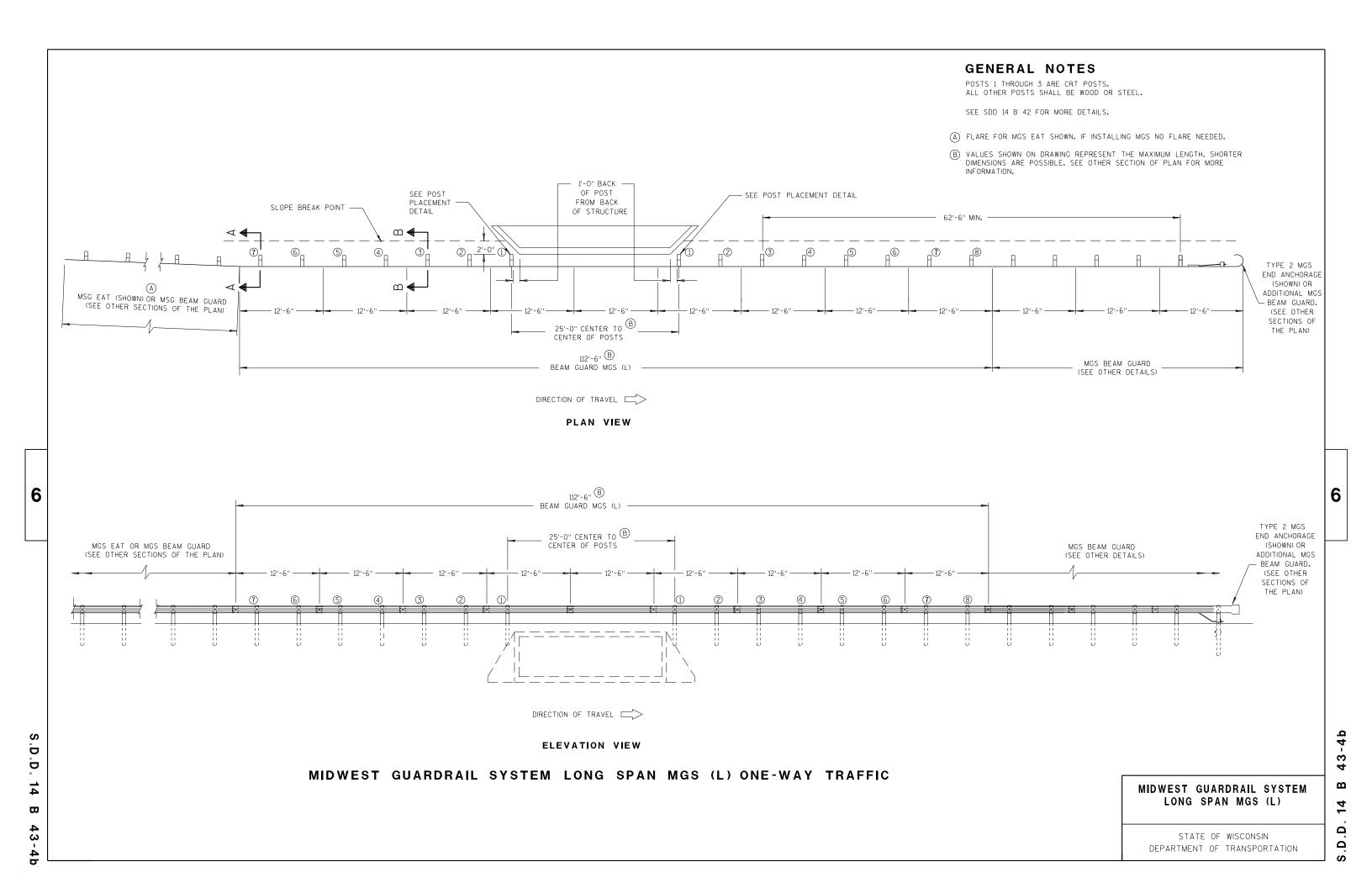
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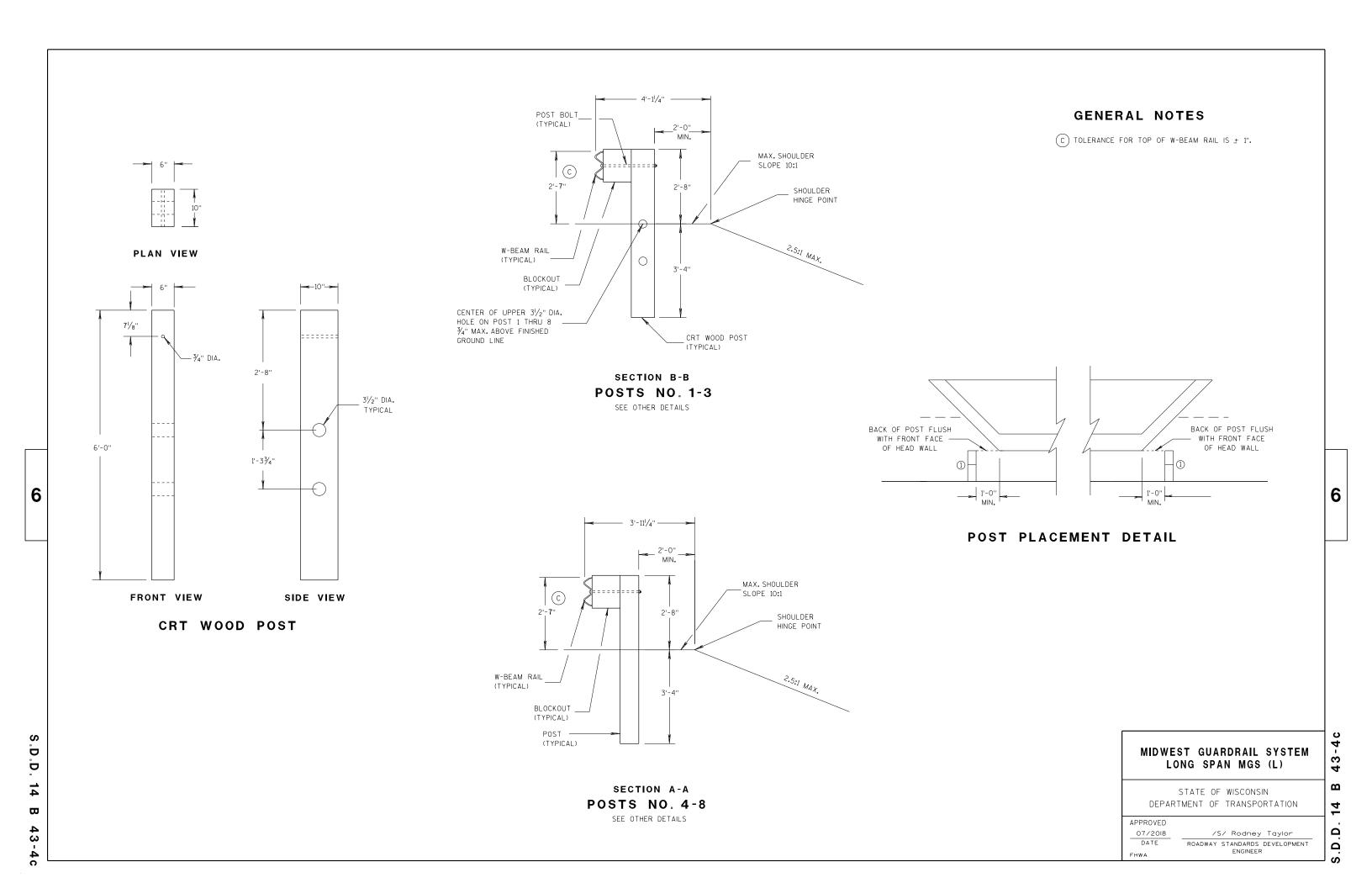
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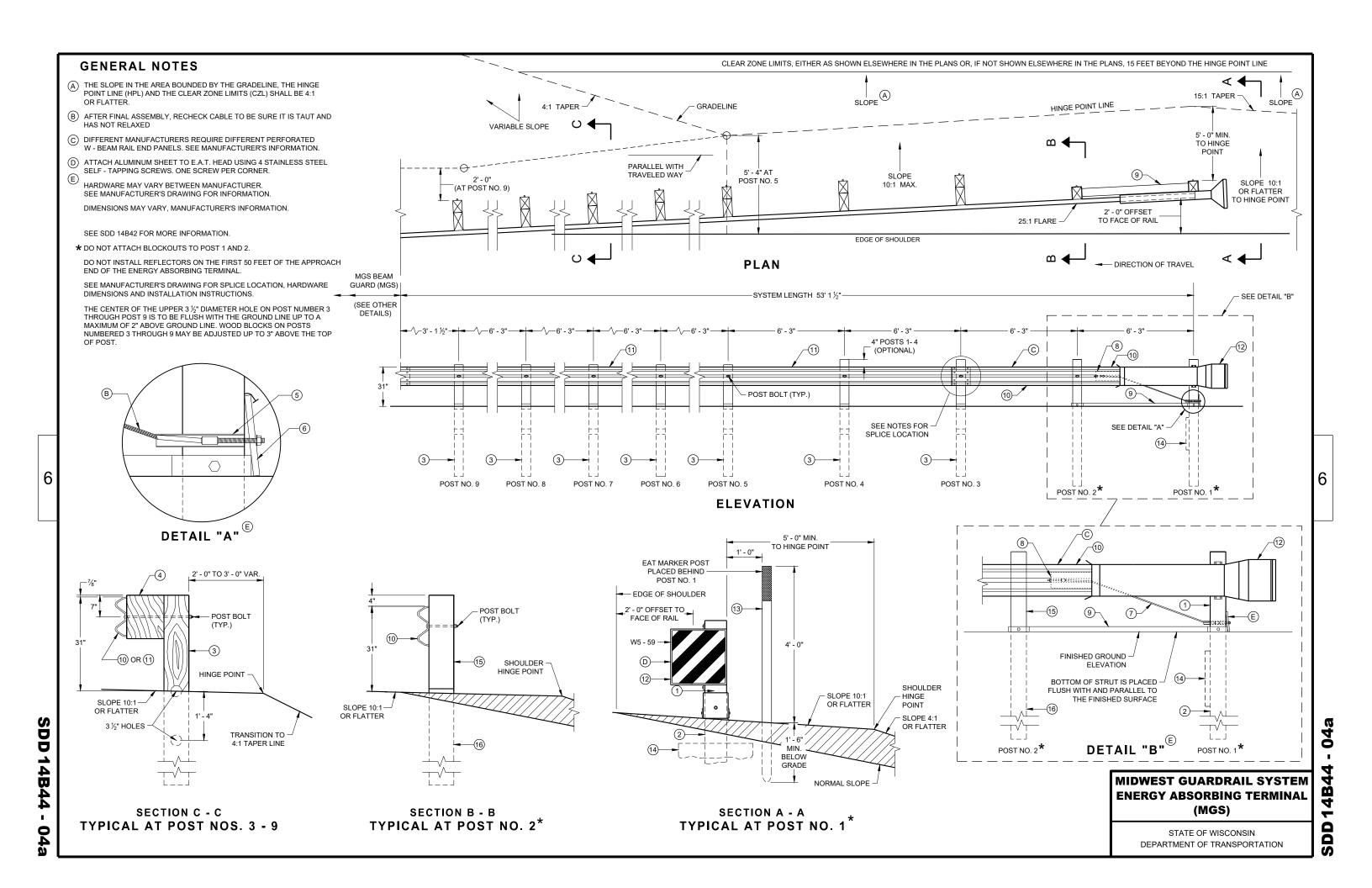
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



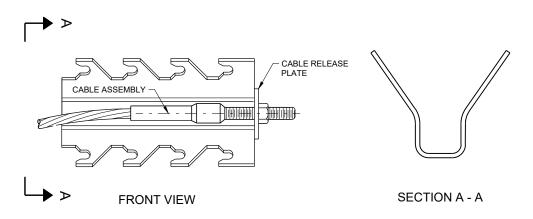




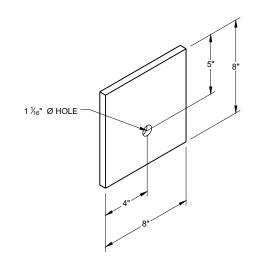




GENERIC GROUND STRUT



GENERIC ANCHOR CABLE BOX ^{(9) (E)}



BEARING PLATE

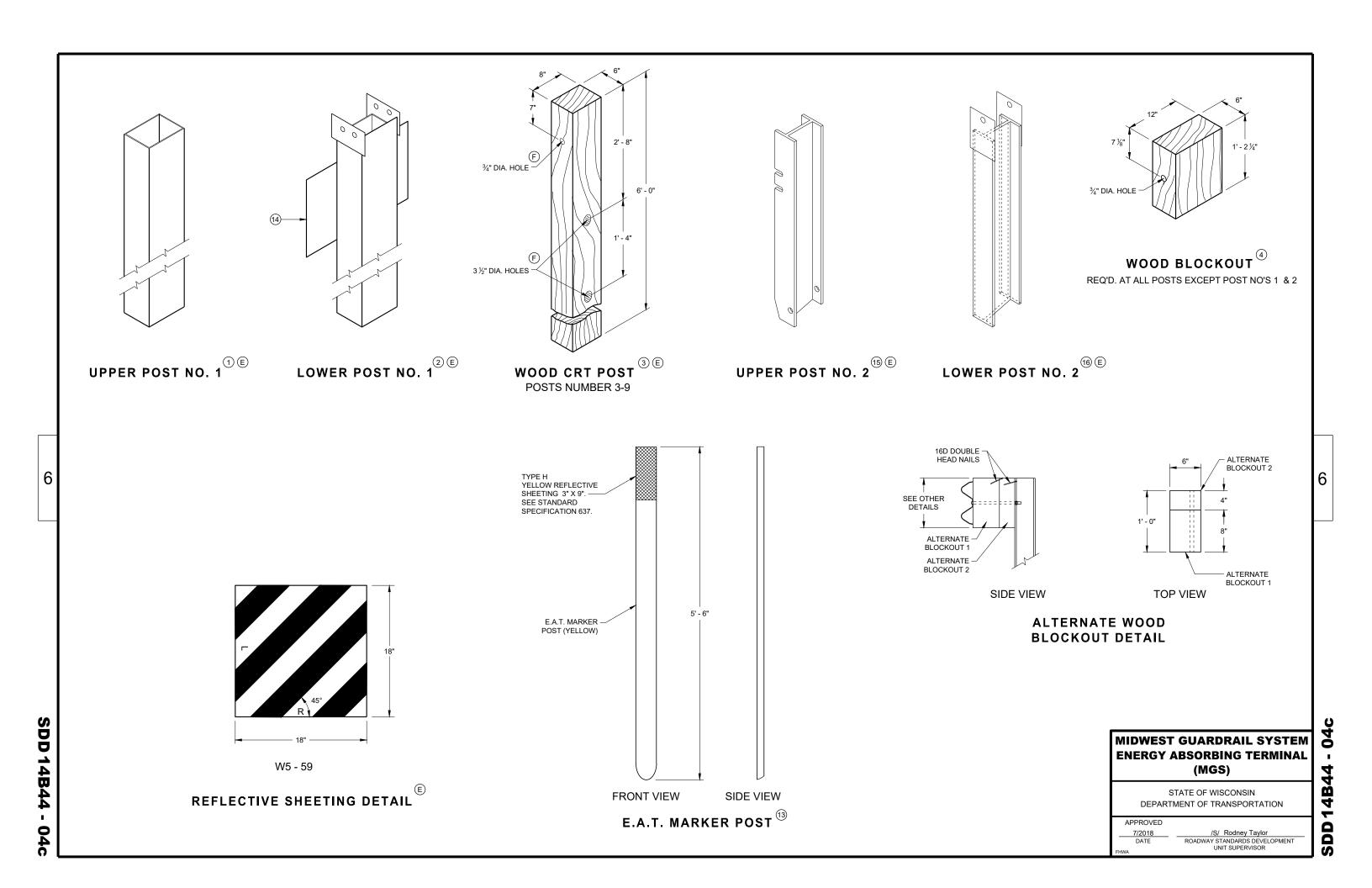
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

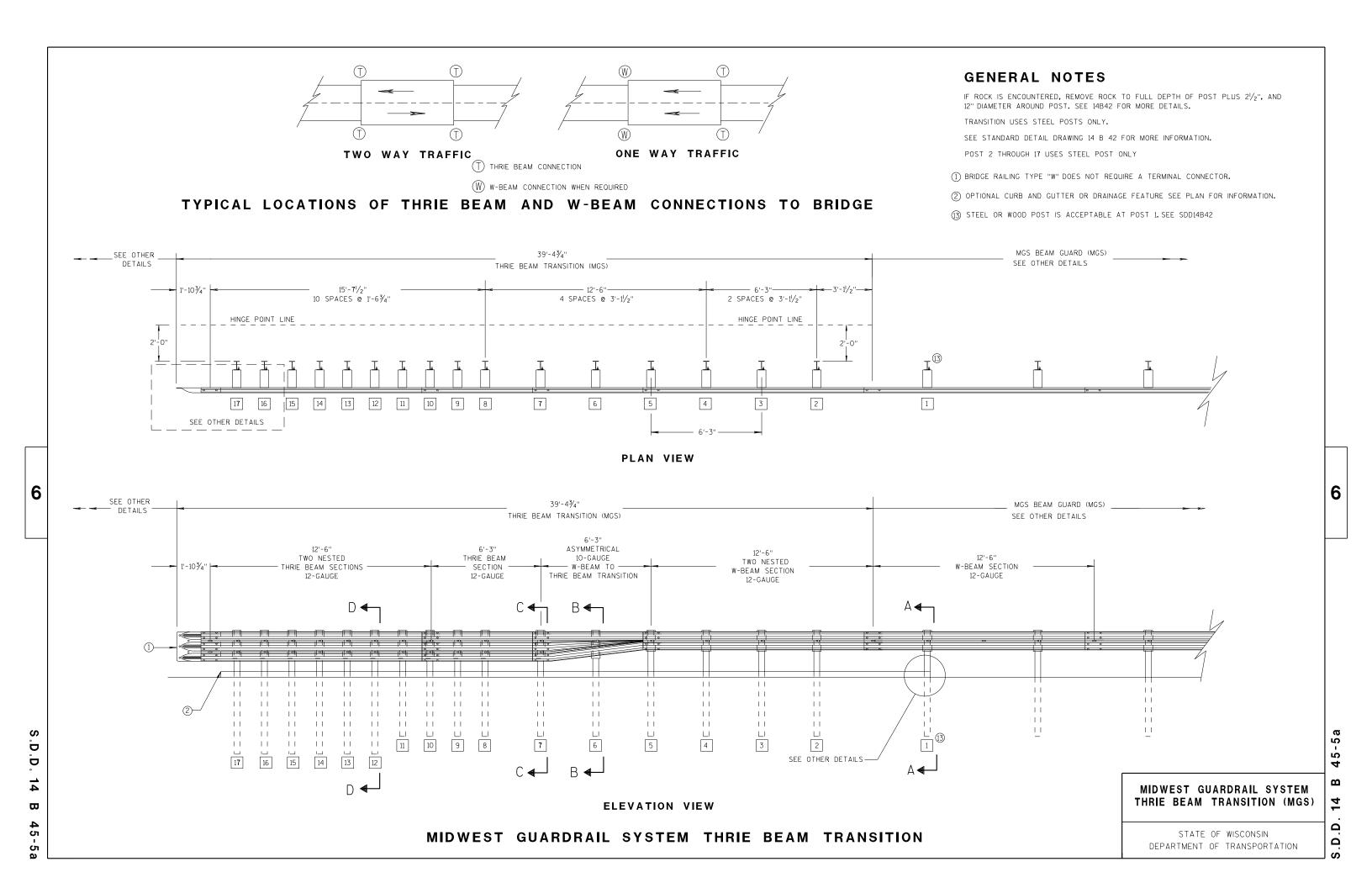
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

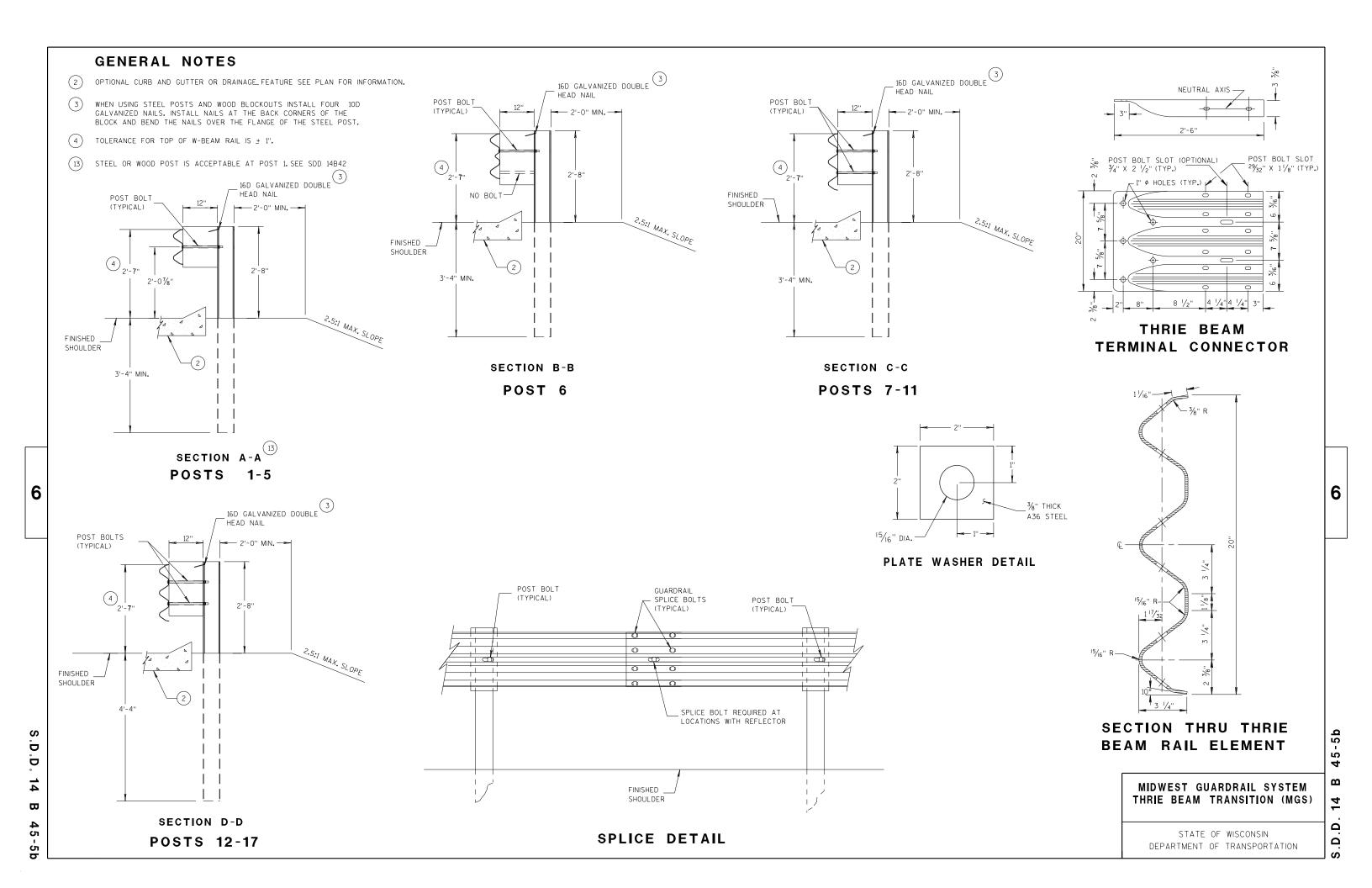
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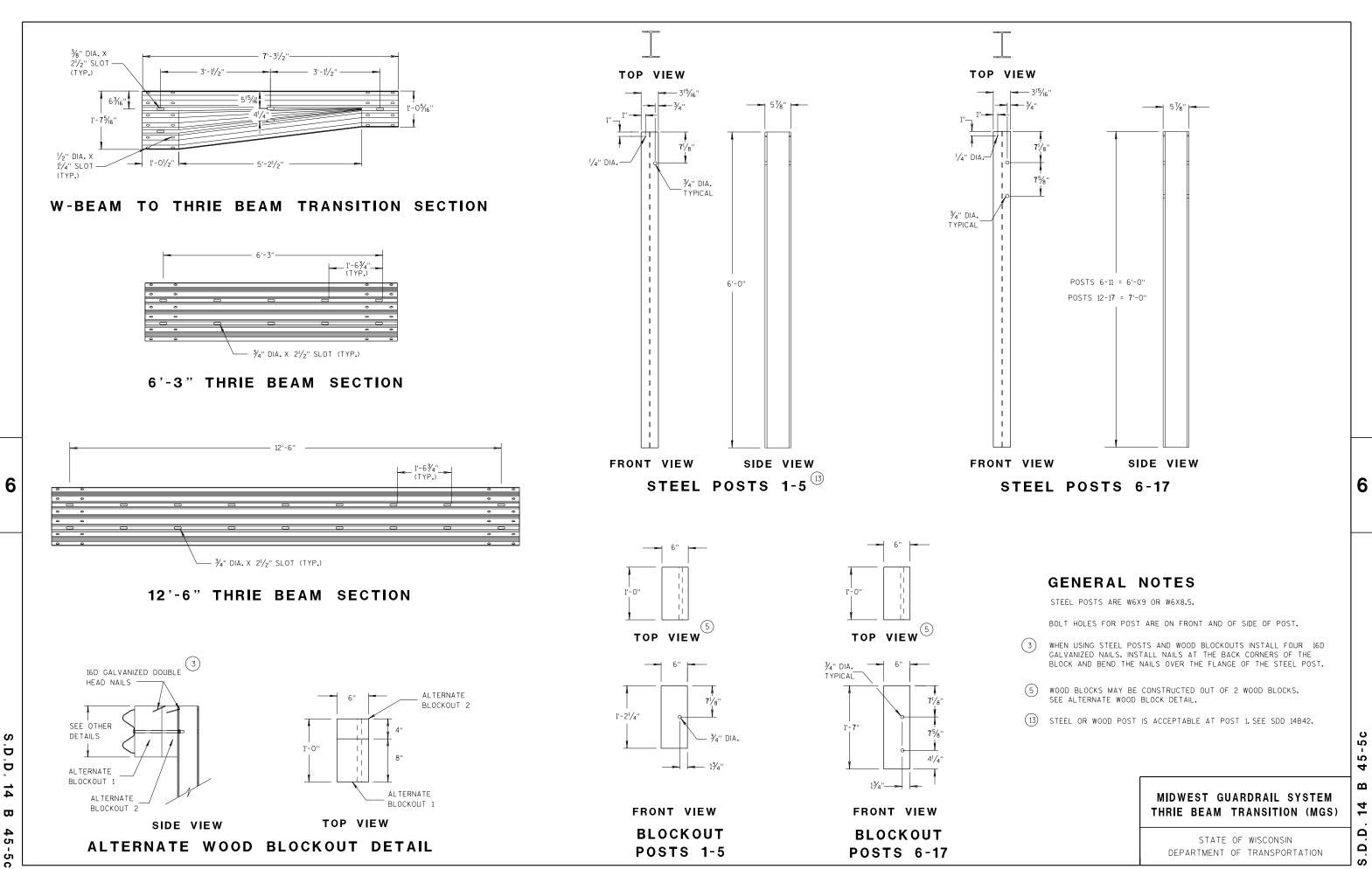
SDD 14B44

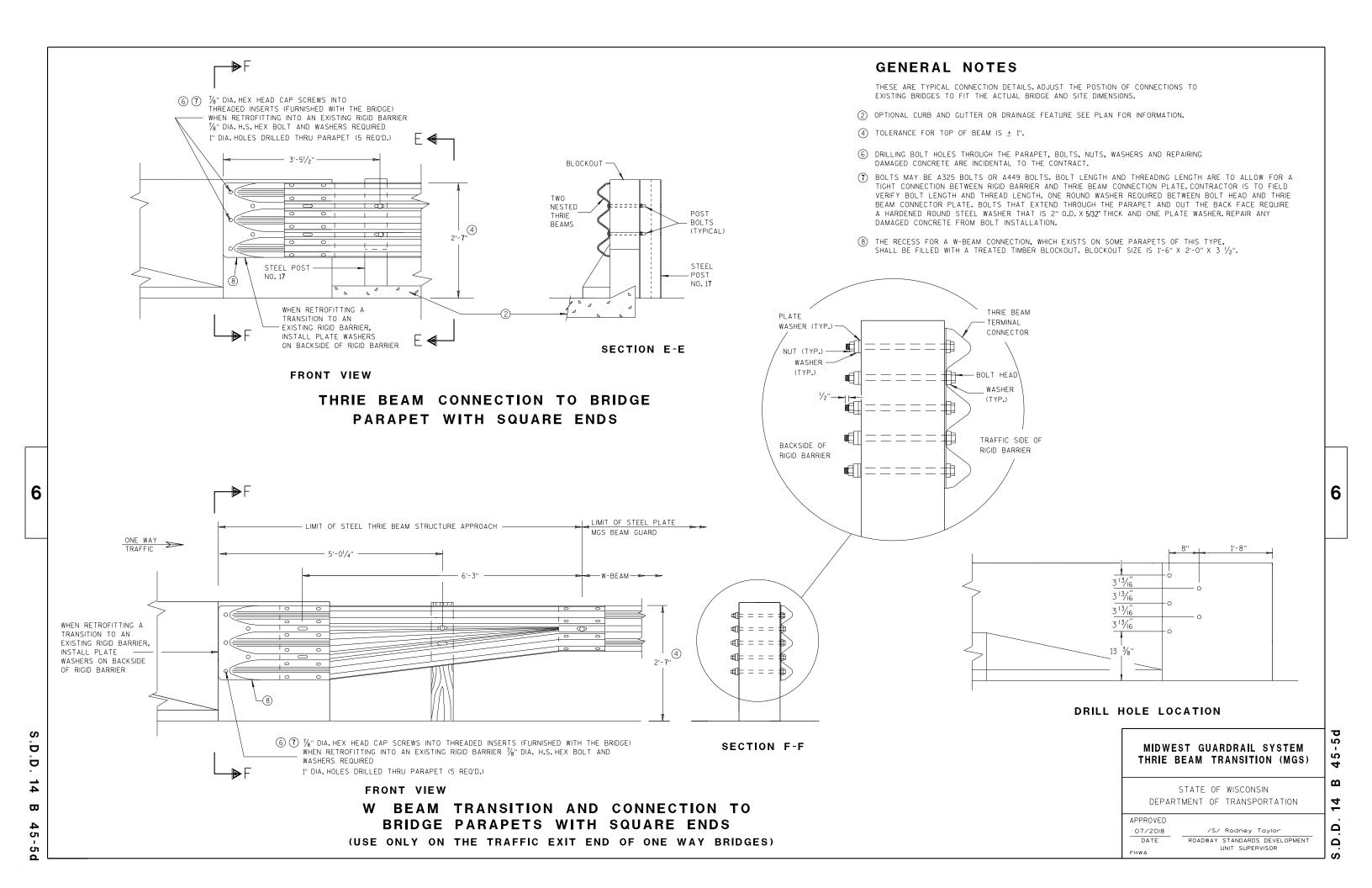
SDD 14B44 - 04



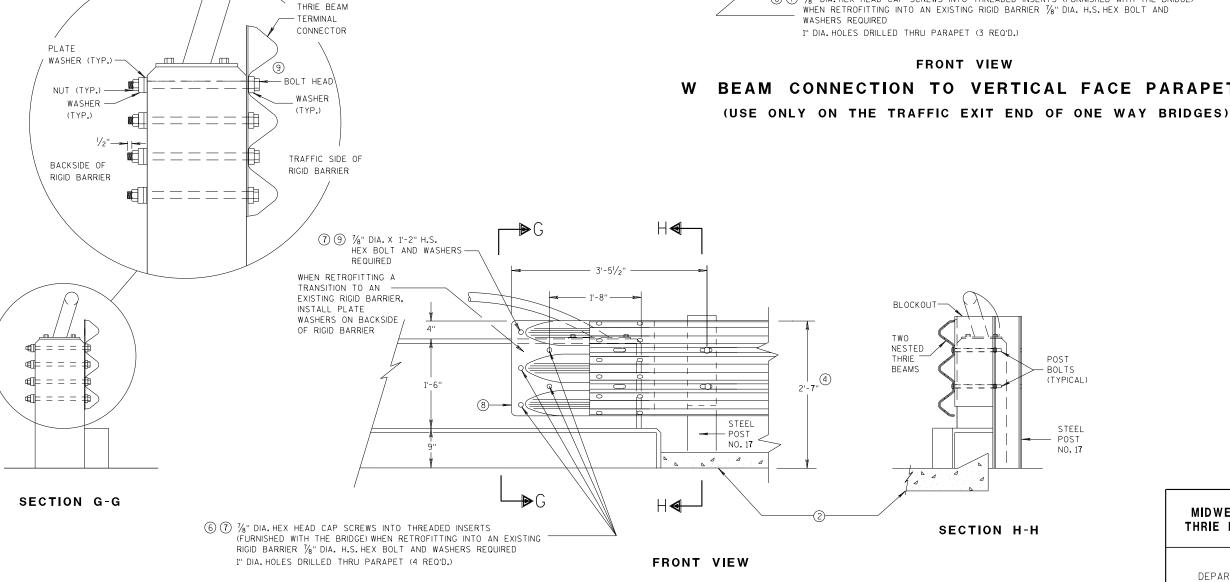








- (2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- (4) TOLERANCE FOR TOP OF BEAM IS ± 1".
- 6 DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- 7 BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE, BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- (8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".
- (9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.



THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

LIMIT OF STEEL PLATE 7 7/8" DIA. X 1'-2" H.S. MGS BEAM GUARD HEX BOLT AND WASHERS REQUIRED 5'-0 1/4" ONE WAY
TRAFFIC WHEN RETROFITTING A TRANSITION TO AN EXISTING RIGID BARRIER, INSTALL 9 PLATE WASHERS ON BACKSIDE OF RIGID BARRIER W BEAM TERMINAL 8 CONNECTOR (4) 2'-7' 6 7 %" DIA. HEX HEAD CAP SCREWS INTO THREADED INSERTS (FURNISHED WITH THE BRIDGE) WHEN RETROFITTING INTO AN EXISTING RIGID BARRIER 1/8" DIA. H.S. HEX BOLT AND

BEAM CONNECTION TO VERTICAL FACE PARAPET

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) 6

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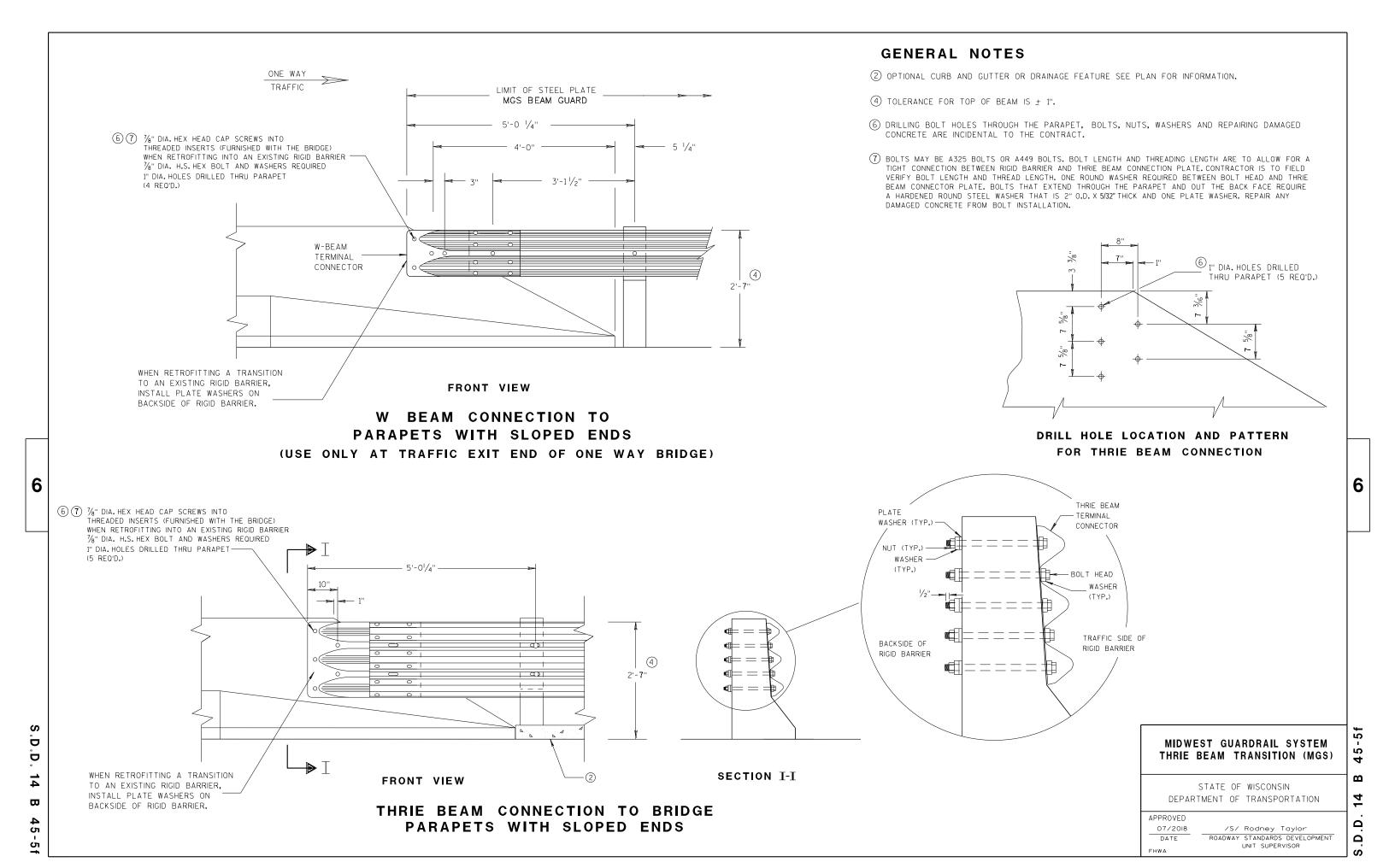
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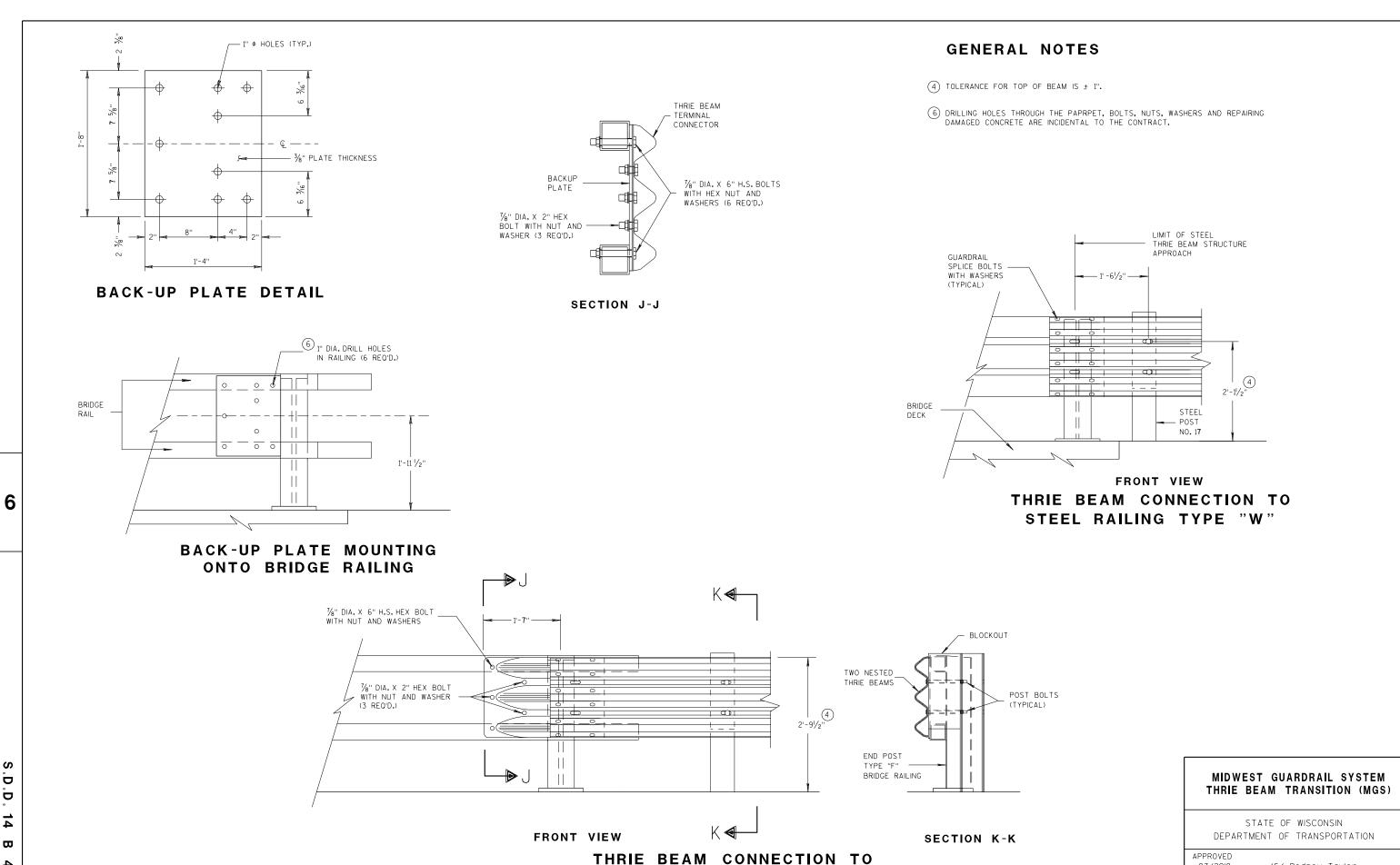
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED /S/ Rodney Taylor 07/2018 DATE

ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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TUBULAR RAILING TYPE "F"

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07/2018

DATE

/S/ Rodney Taylor

ROADWAY STANDARDS DEVELOPMENT

UNIT SUPERVISOR

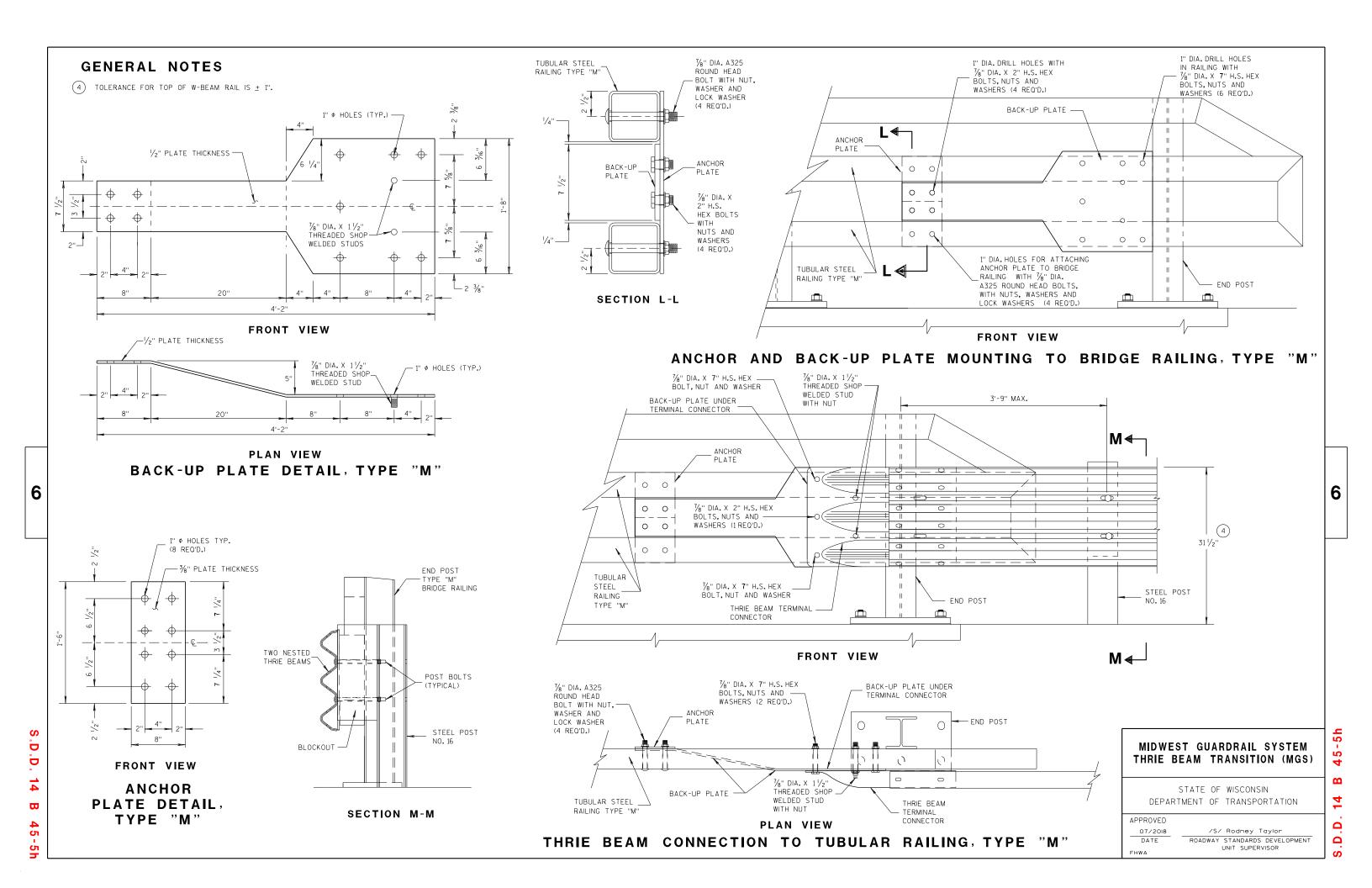


PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

| CONNECTOR PLATE DIMENSION (PER ASSEMBLY) | | | | | |
|---|----------|-------------------|--|-----------|--|
| PLATE | QUANTITY | SHAPE | SIZE (A × B × C × D) | THICKNESS | |
| P1 | 1 | в₫ | 20" × 20" | 3/16" | |
| P2 | 1 | B₽€ | 20" × 20" × 28%6" | 3/16" | |
| Р3 | 1 | B _ CD | 39" × 35/8" × 20" × 195/6" | 3/16" | |
| S1 | 4 | B₽ | 187/6" × 35/8" × 183/4" | 1/4" | |
| S2 | 1 | | $10^{1}/_{4}$ " × $2\frac{7}{16}$ " × $10\frac{3}{6}$ " × $1\frac{7}{2}$ " | 1/4" | |
| S3 | 1 | B CD | 3" × 1½6" × 3½" × ½" | 1/4" | |
| S4 | 1 | в | 61/8" × 27/16" | 1/4" | |
| S5 | 1 | в∟ | 6½" × ½'6" | 1/4" | |
| S6 | 1 | в△ | 7¾" × 1¾" | 1/4" | |
| S 7 | 1 | A D C | 2%6" × 6" × 35%" × 57%" | 1/4" | |
| S8 | 1 | ABC | 1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ " | 1/4" | |
| S9 | 1 | C B | 6½6" × 6¾6" × 1¾32" | 1/4" | |
| S10 | 1 | A B C | 11/8" × 91/8" × 35/8" × 911/16" | 1/4" | |
| S11 | 1 | CAB | 8½" × 8¾" × 1 ¹ ¾6" | 1/4" | |

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

GENERAL NOTES

COVER PLATE PANELS ARE 3/6" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE

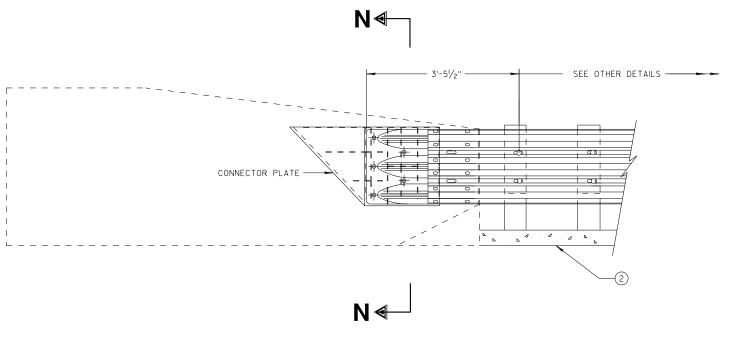
7/2018 /S/ Rodney Taylor

DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

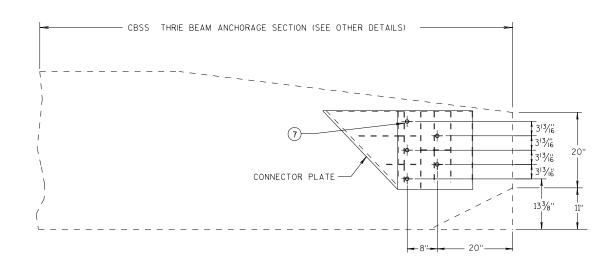
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THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

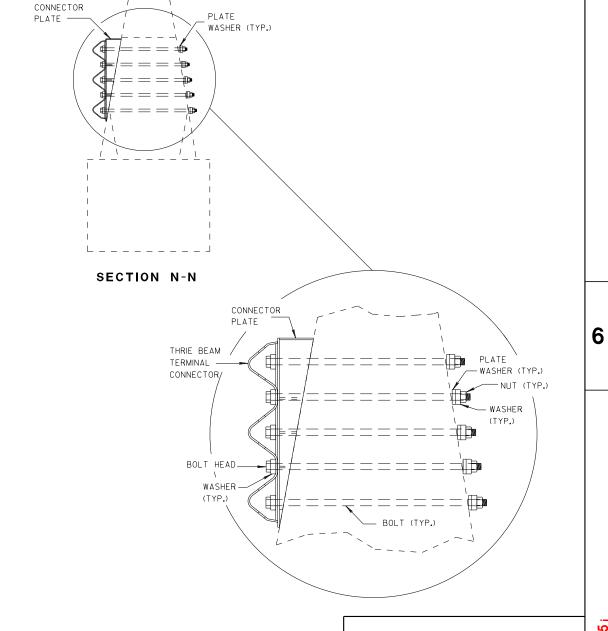


SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

- 2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- 7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE, BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



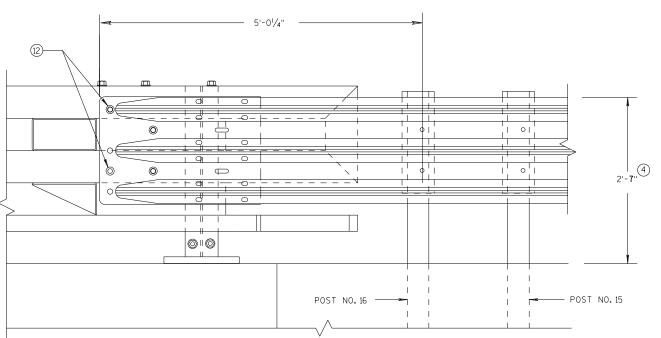
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 7/2018 DATE

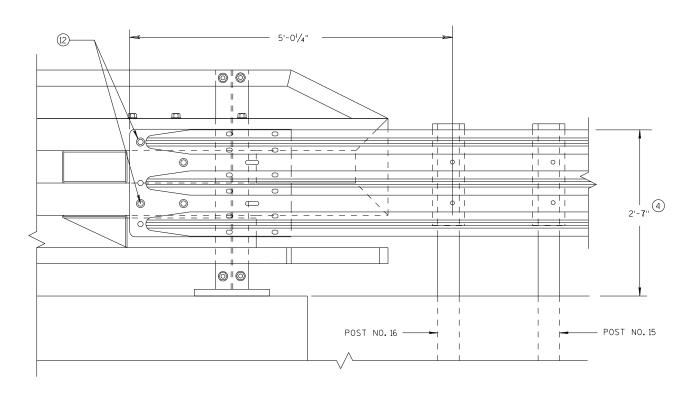
/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

- (4) TOLERANCE FOR TOP OF BEAM IS ± 1".
- 12 BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE, ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

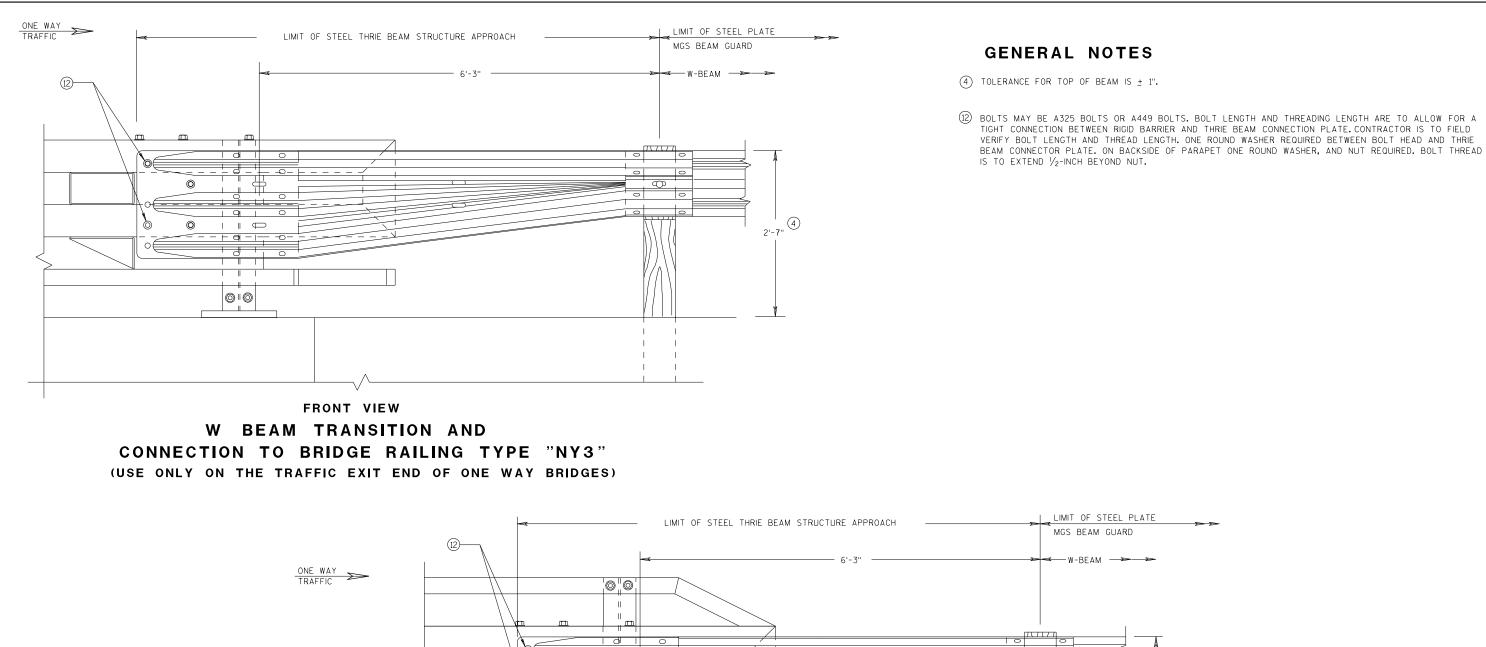
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

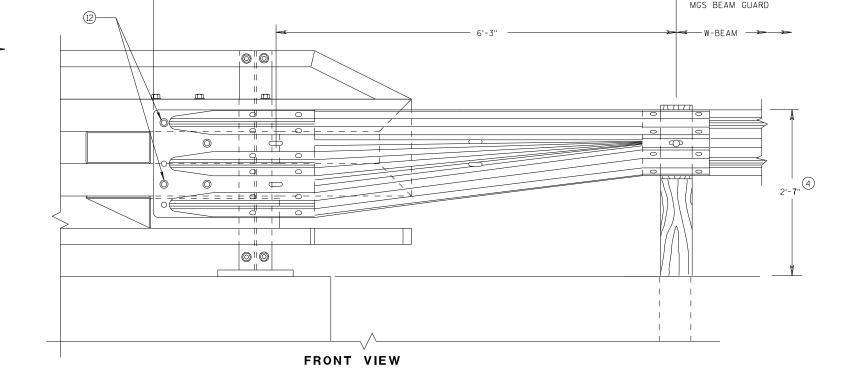
APPROVED

/S/ Rodney Taylor DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4" (USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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7/2018 /S/ Rodney Taylor

DATE ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERVISOR

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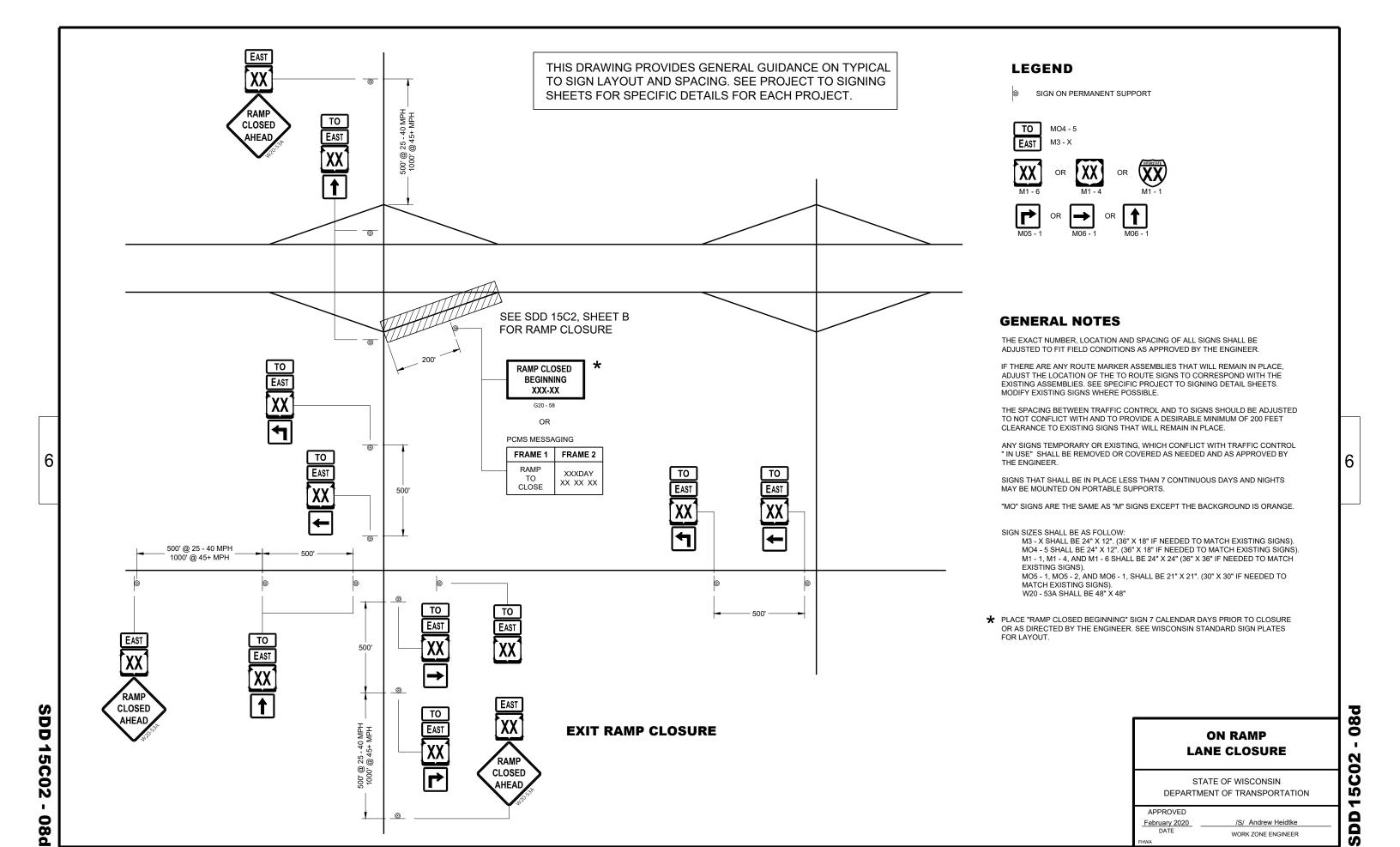
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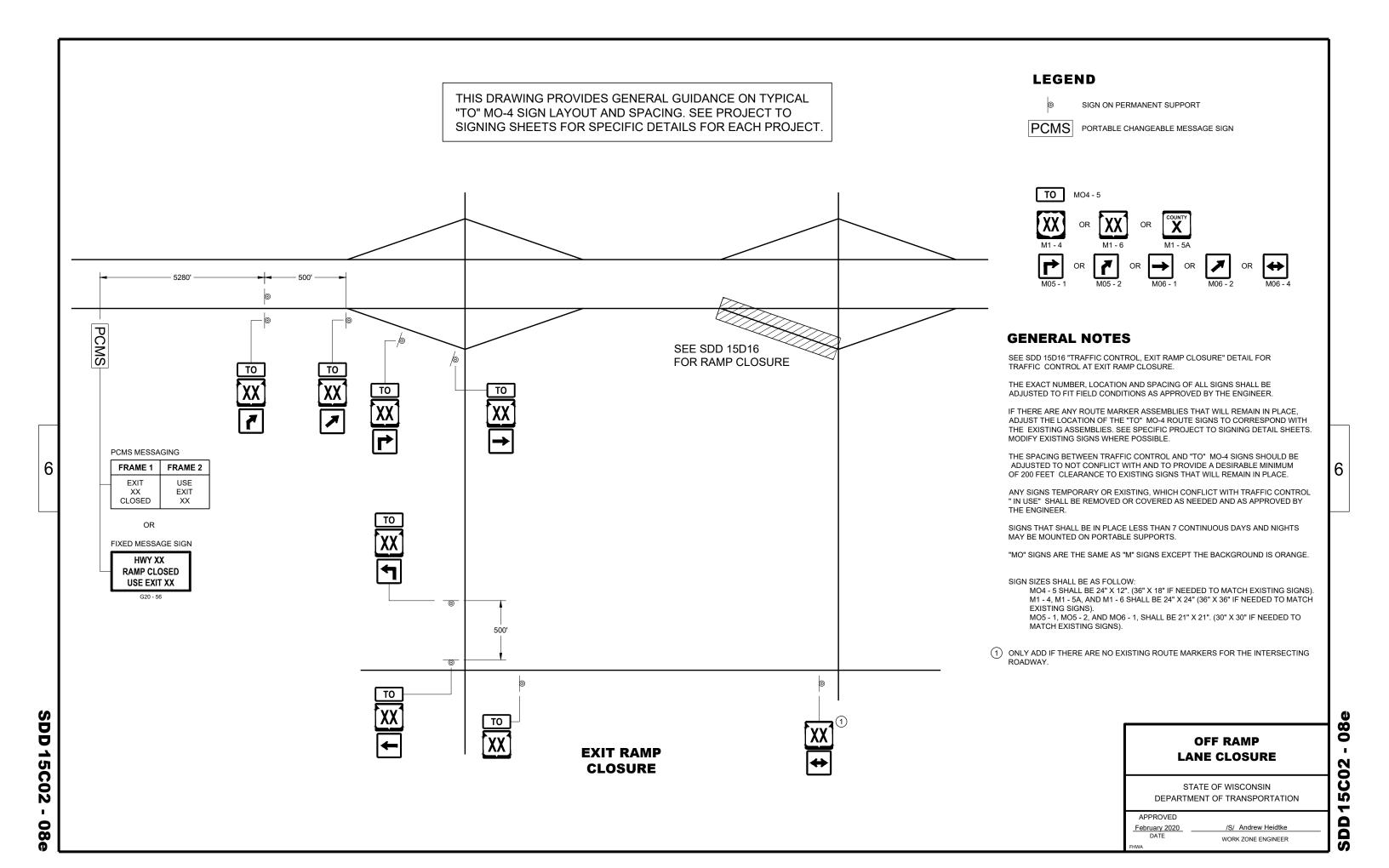
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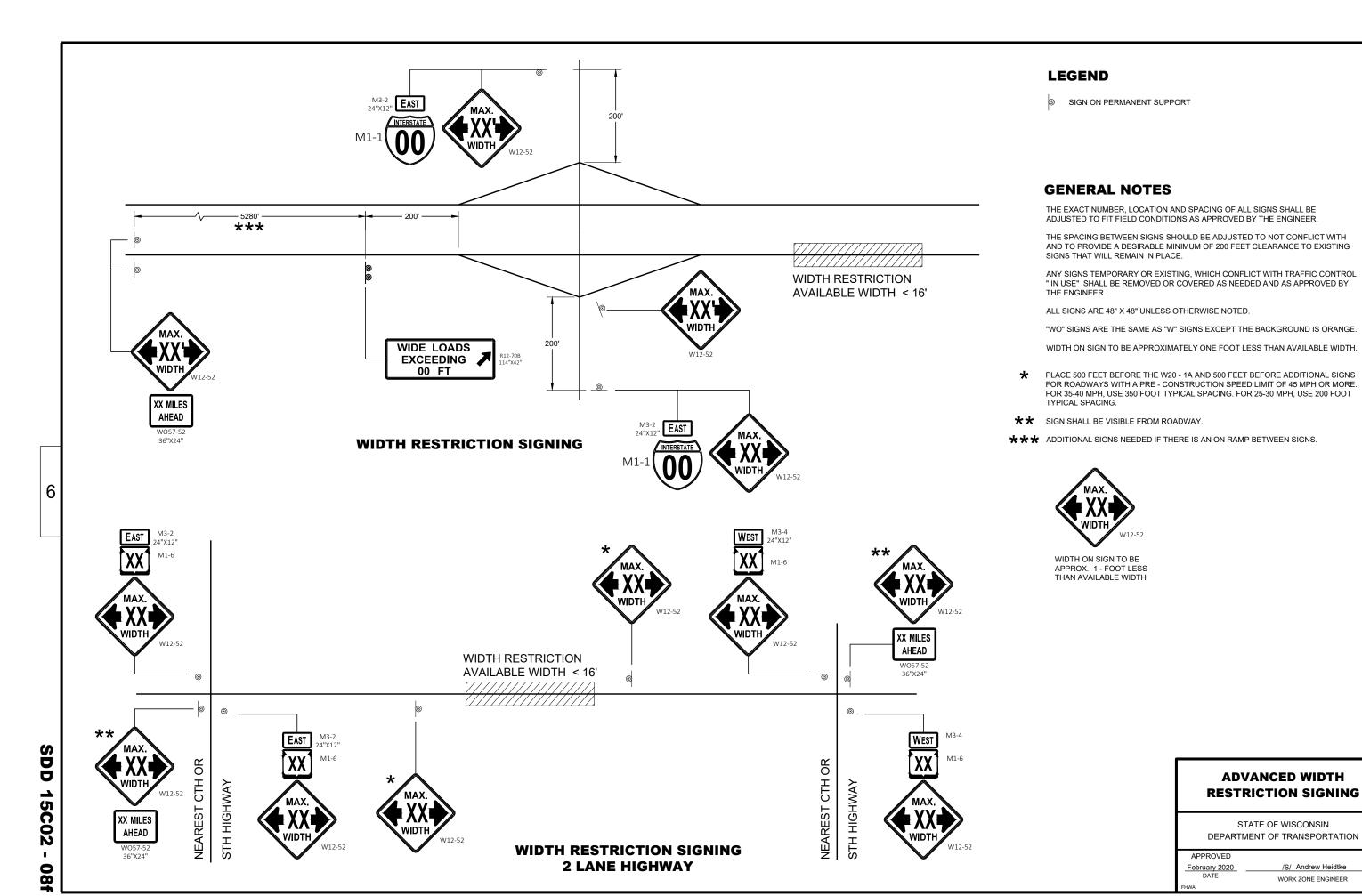
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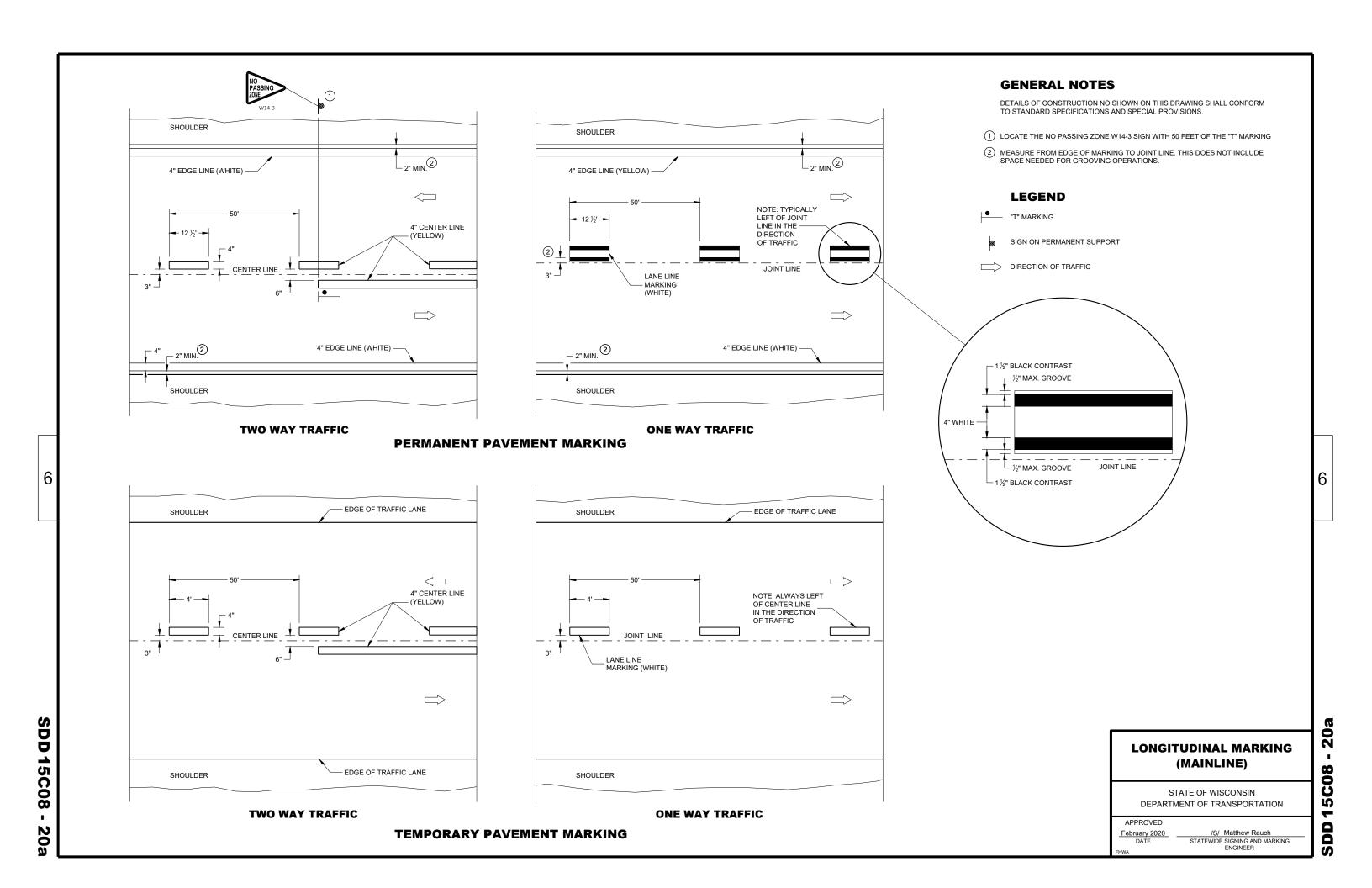


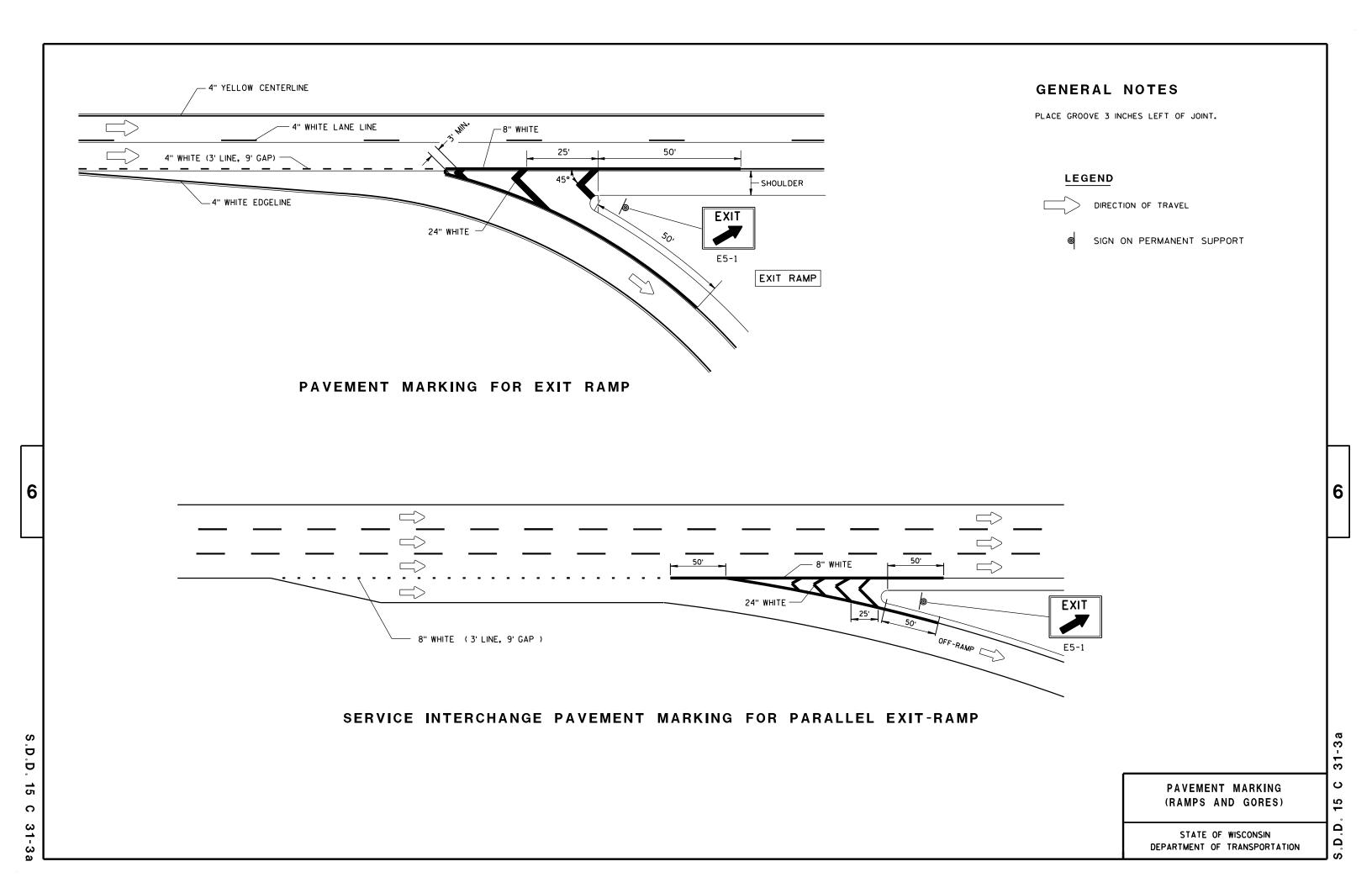












GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS. THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP, PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES, INCLUDE A RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIRABLE) BEYOND THE "END OF ROADWORK" SIGN.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

TYPE III BARRICADE WITH ATTACHED SIGN

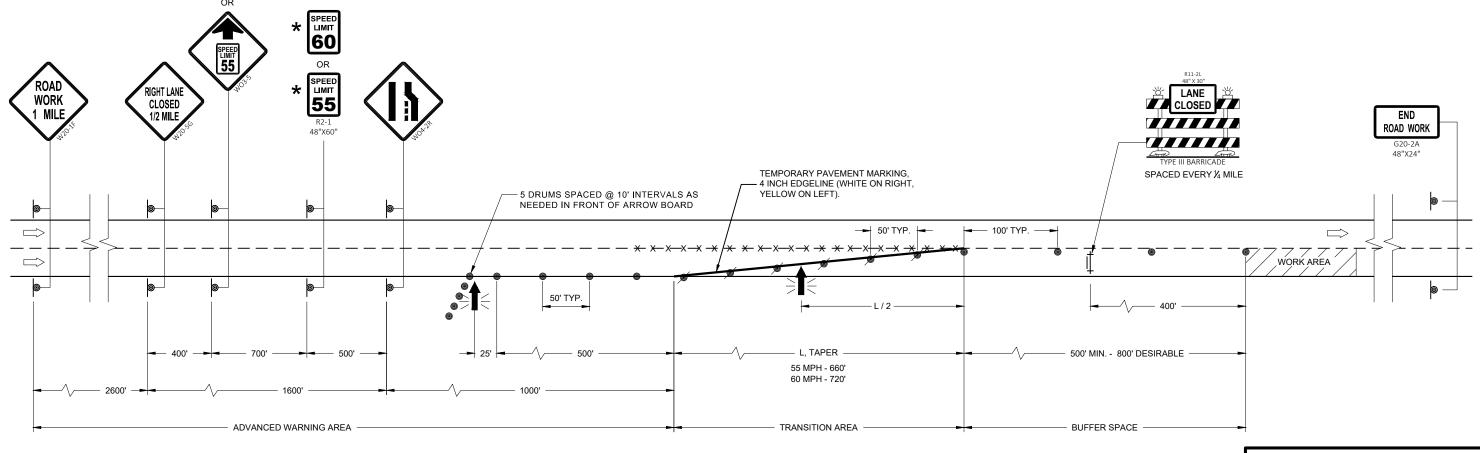
TYPE "A" WARNING LIGHT (FLASHING)

-X-X-X REMOVING PAVEMENT MARKINGS

DIRECTION OF TRAFFIC

WORK AREA

FLASHING ARROW BOARD



TRAFFIC CONTROL, LANE CLOSURE, **SPEED REDUCTION**

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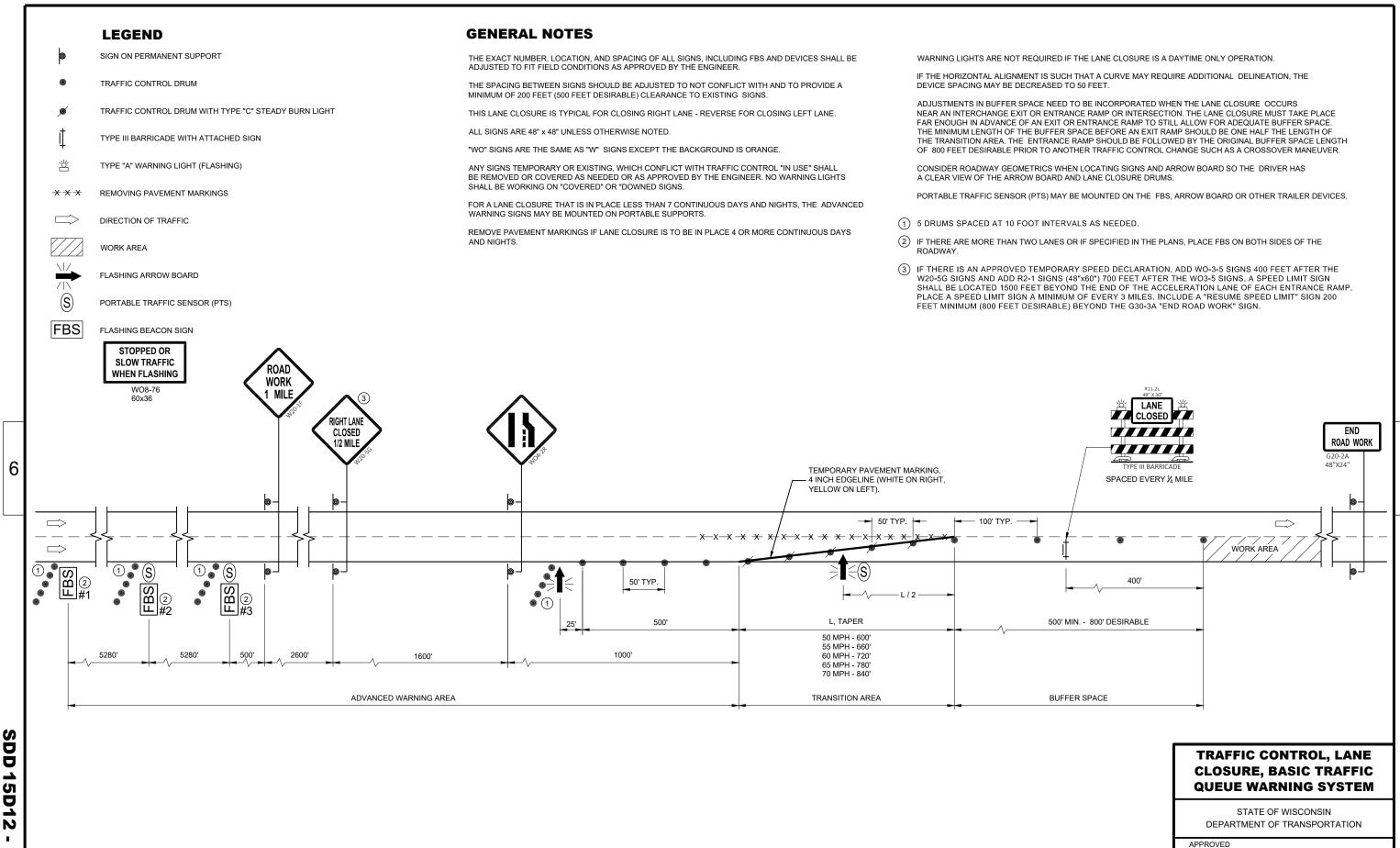
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED August 2020 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER

SDD 15D12

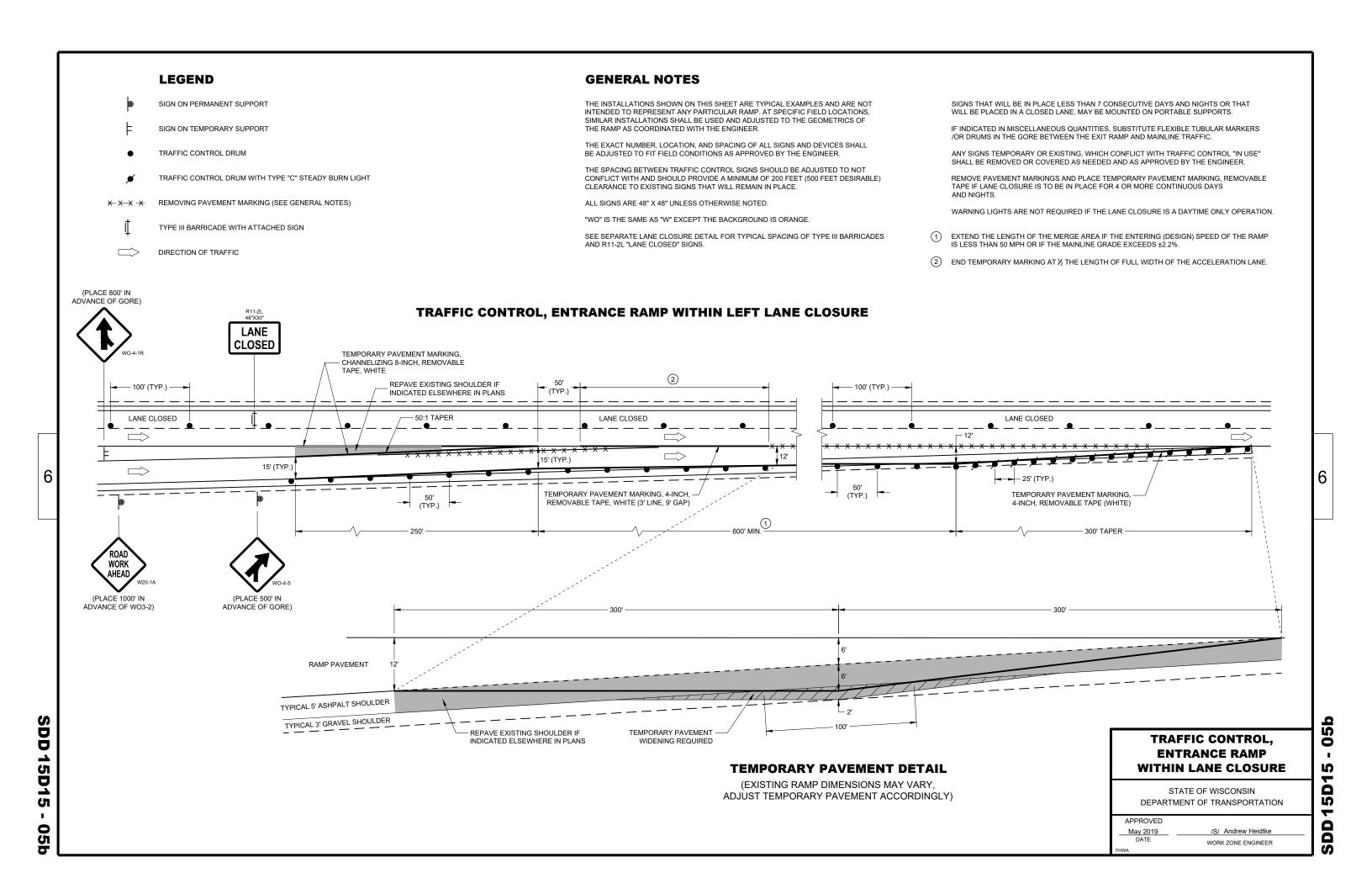


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/S/ Andrew Heidtke

WORK ZONE ENGINEER

August 2020 DATE



SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

▼ TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

X-X-X -X REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TYPE III BARRICADE WITH ATTACHED SIGN

DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

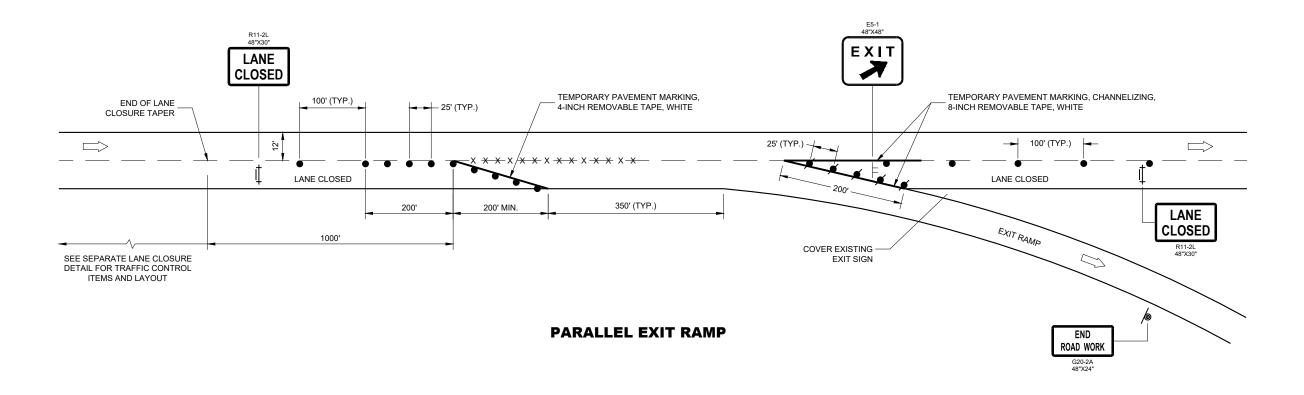
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.



TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2019

DATE

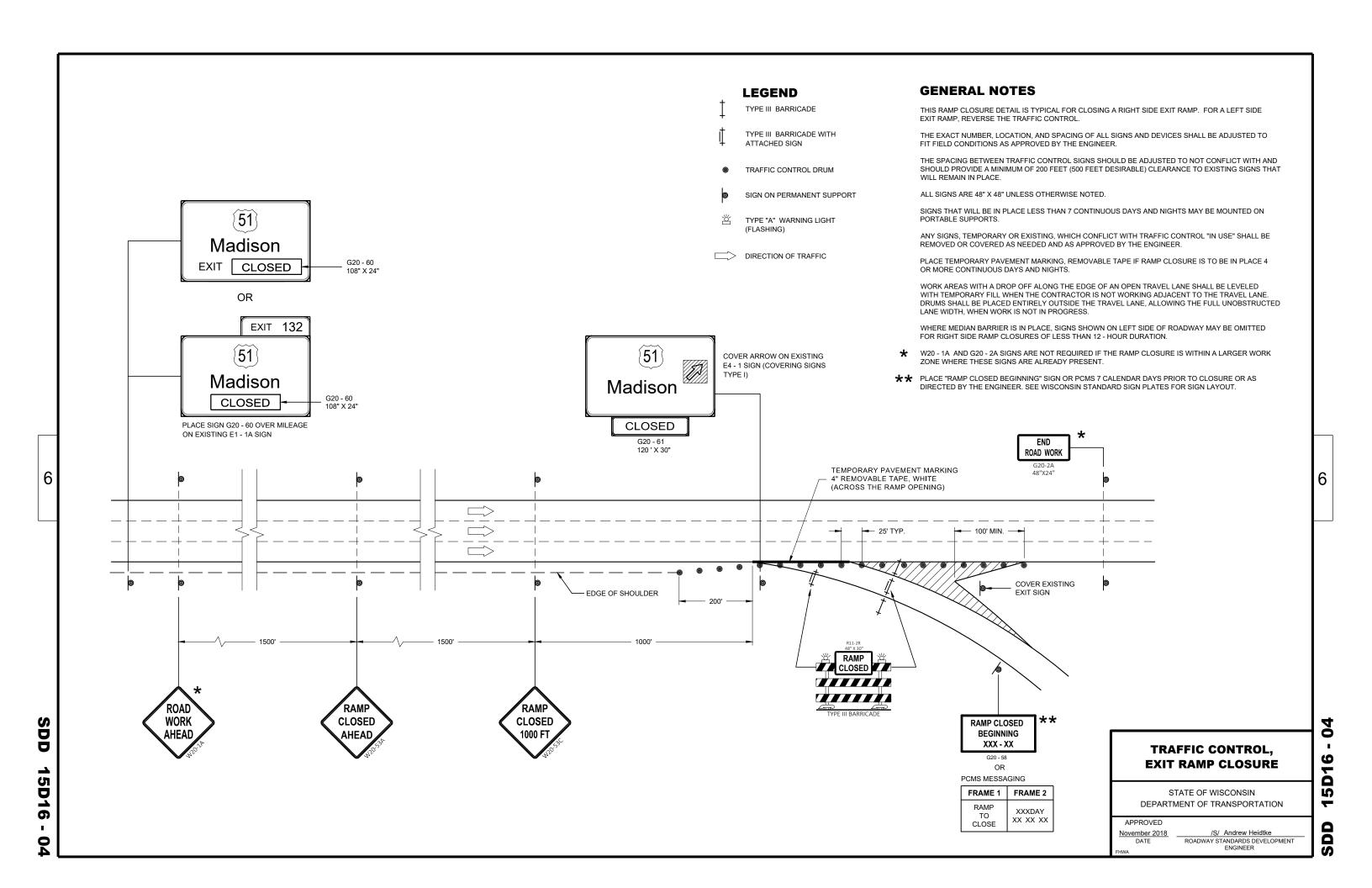
/S/ Andrew Heidtke

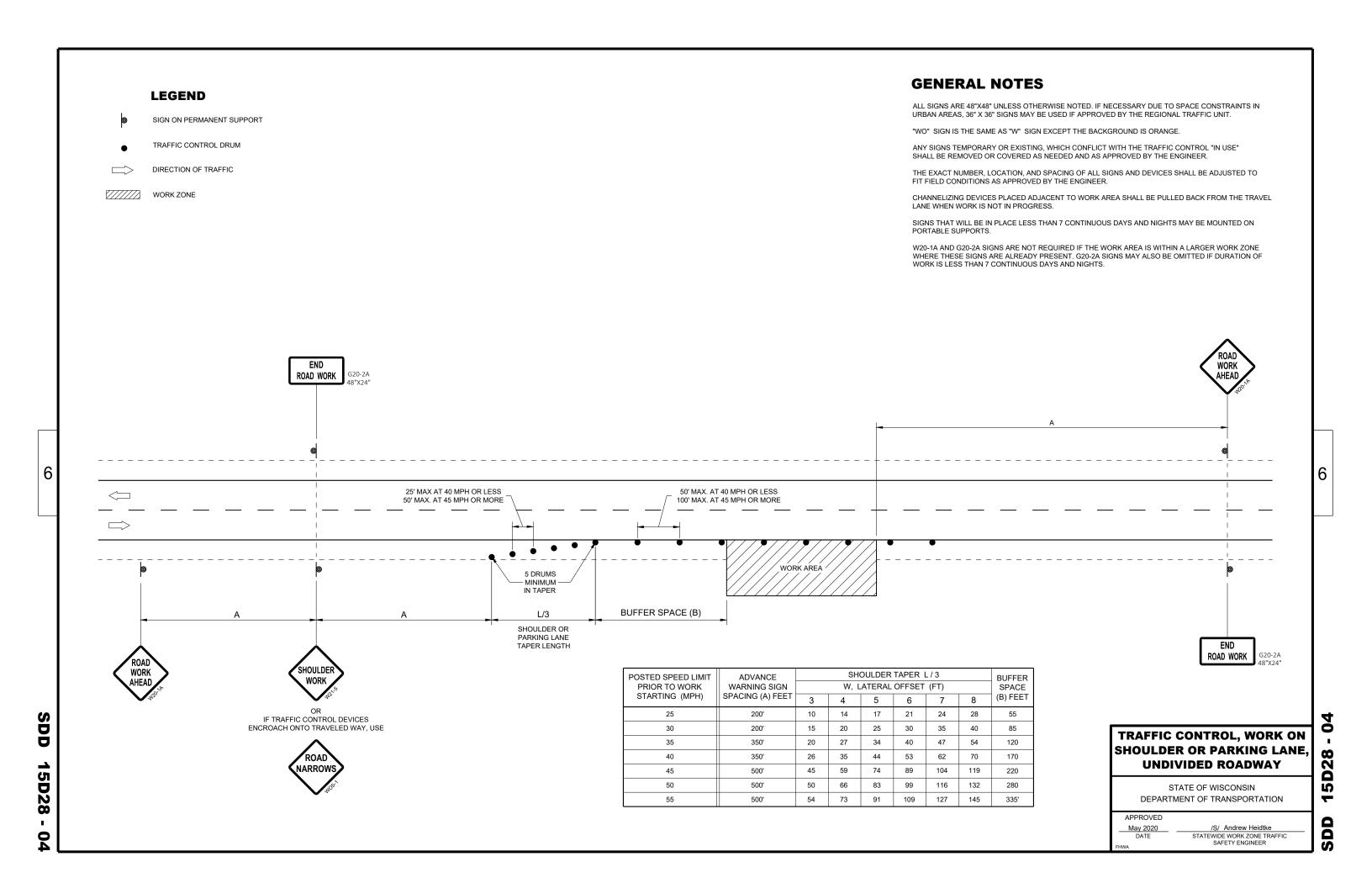
WORK ZONE ENGINEER

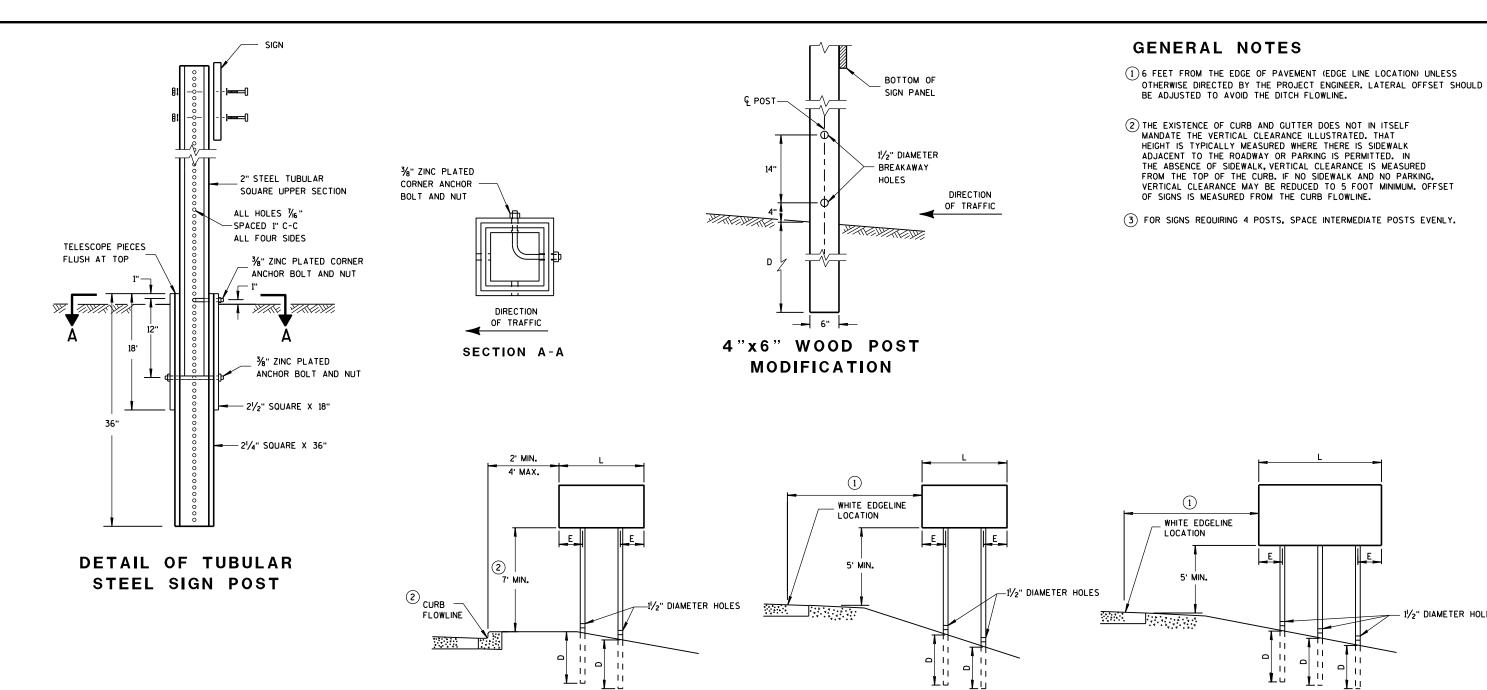
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TUBULAR STEEL POSTS

| AREA OF SIGN INSTALLATION (SO. FT.) | NUMBER OF REQUIRED TUBULAR STEEL POSTS | |
|--|--|--|
| 9 OR LESS | 1 | |
| GREATER THAN 9 LESS THAN OR EQUAL TO 18 | 2 | |
| GREATER THAN 18 LESS THAN OR EQUAL TO 27 | 3 | |

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

| AREA OF SIGN INSTALLATION (SO. FT.) | D (MIN) |
|---|------------|
| 20 OR LESS | 4' |
| GREATER THAN 20 | 5' |

4" X 6" WOOD POST

| POST SPACING REQUIREM | NUMBER OF | | |
|--|-----------|------------------------|---|
| L | E | WOOD POSTS REQUIRED | |
| 48" OR LESS AND LESS THAN 20 SO.FT. | - | 1 | |
| LESS THAN 60" | 12" | 2 | ٤ |
| 60" TO 120" | L/5 | 2 | |
| GREATER THAN 120" LESS THAN 168" | 12" | 3 | |
| 168" AND GREATER | 12" | 4 | |

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

-11

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

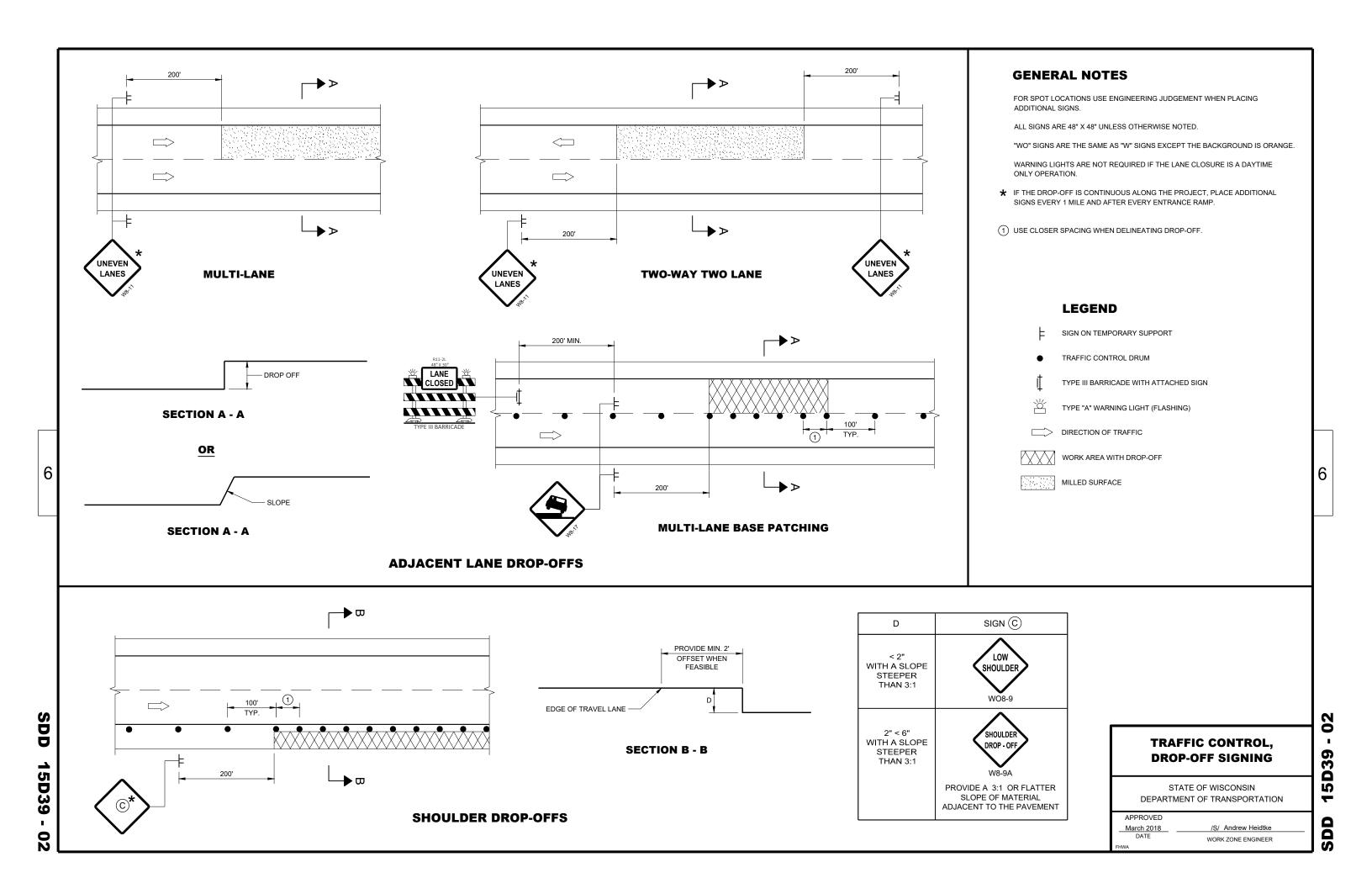
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

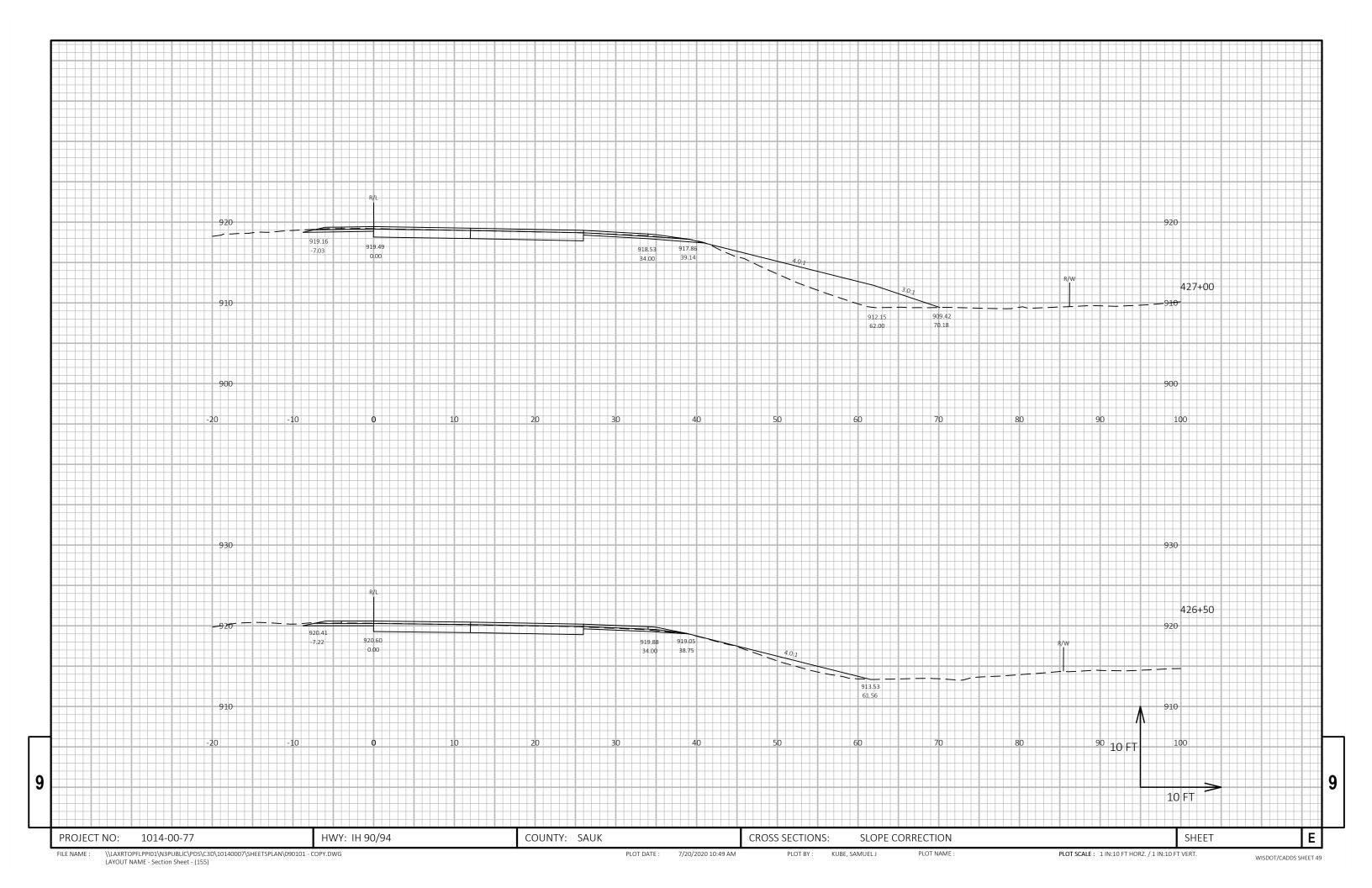
> /S/ Andrew Heidtke WORK ZONE ENGINEER

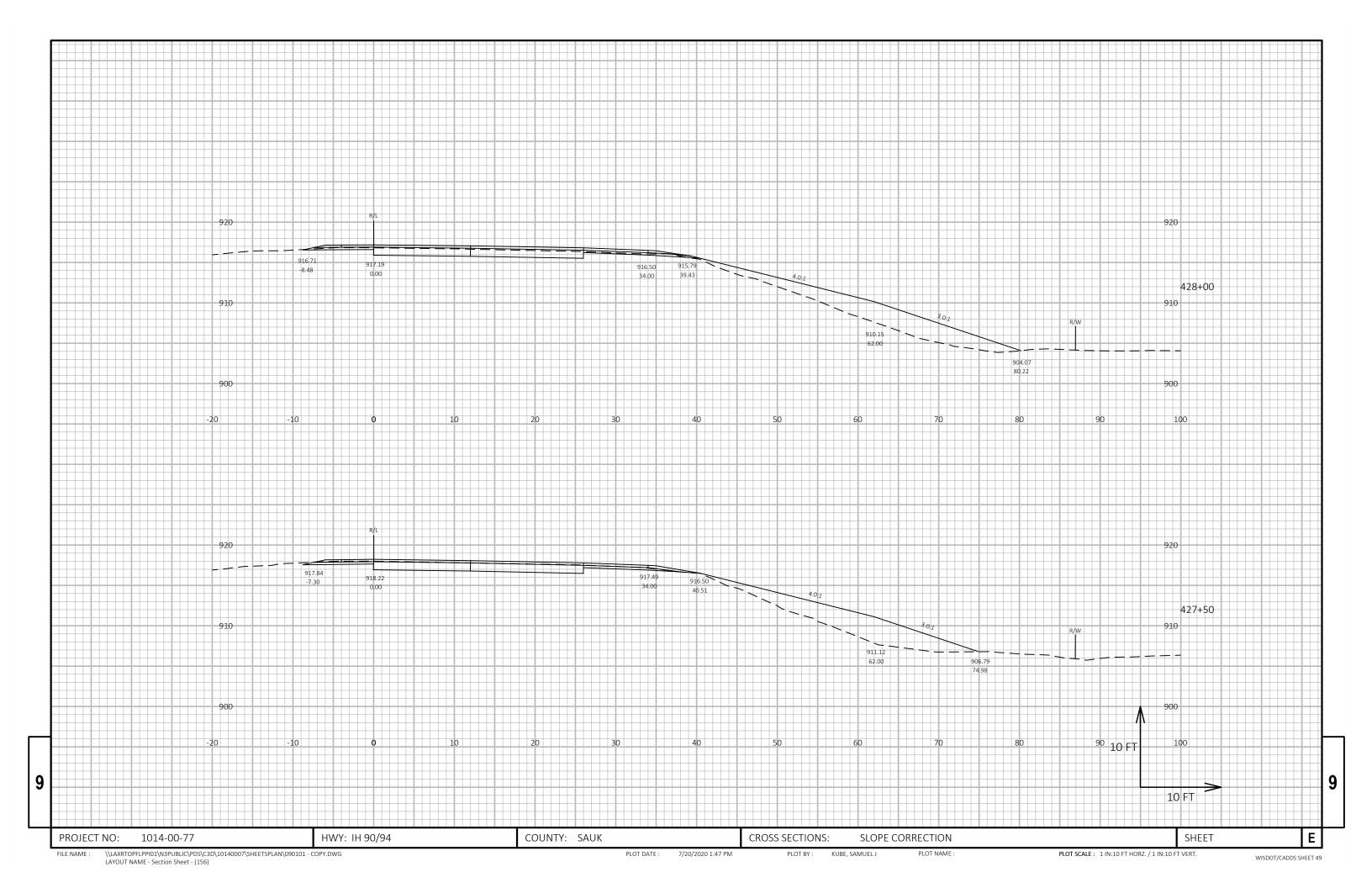
APPROVED

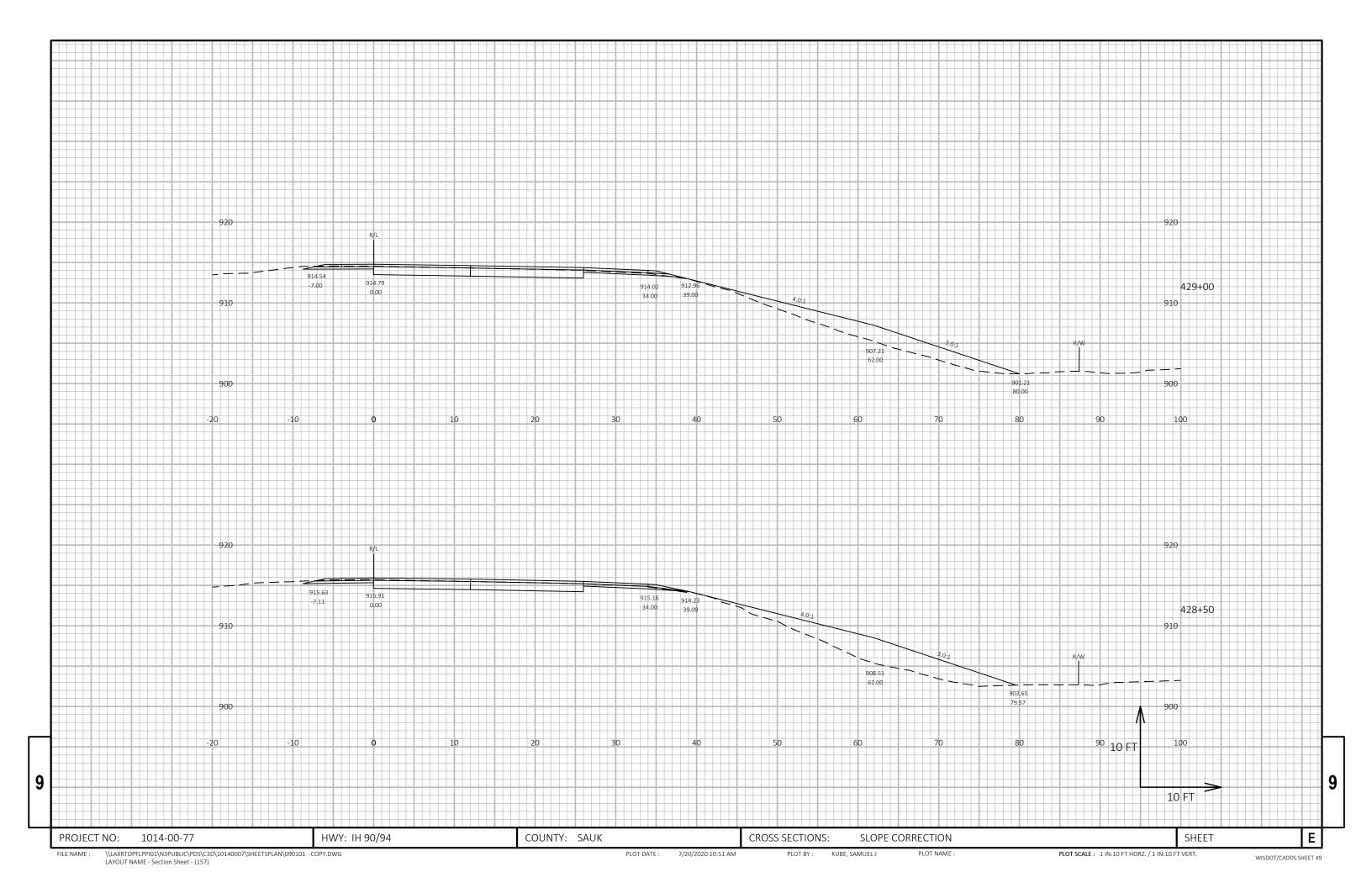
June 2017 DATE

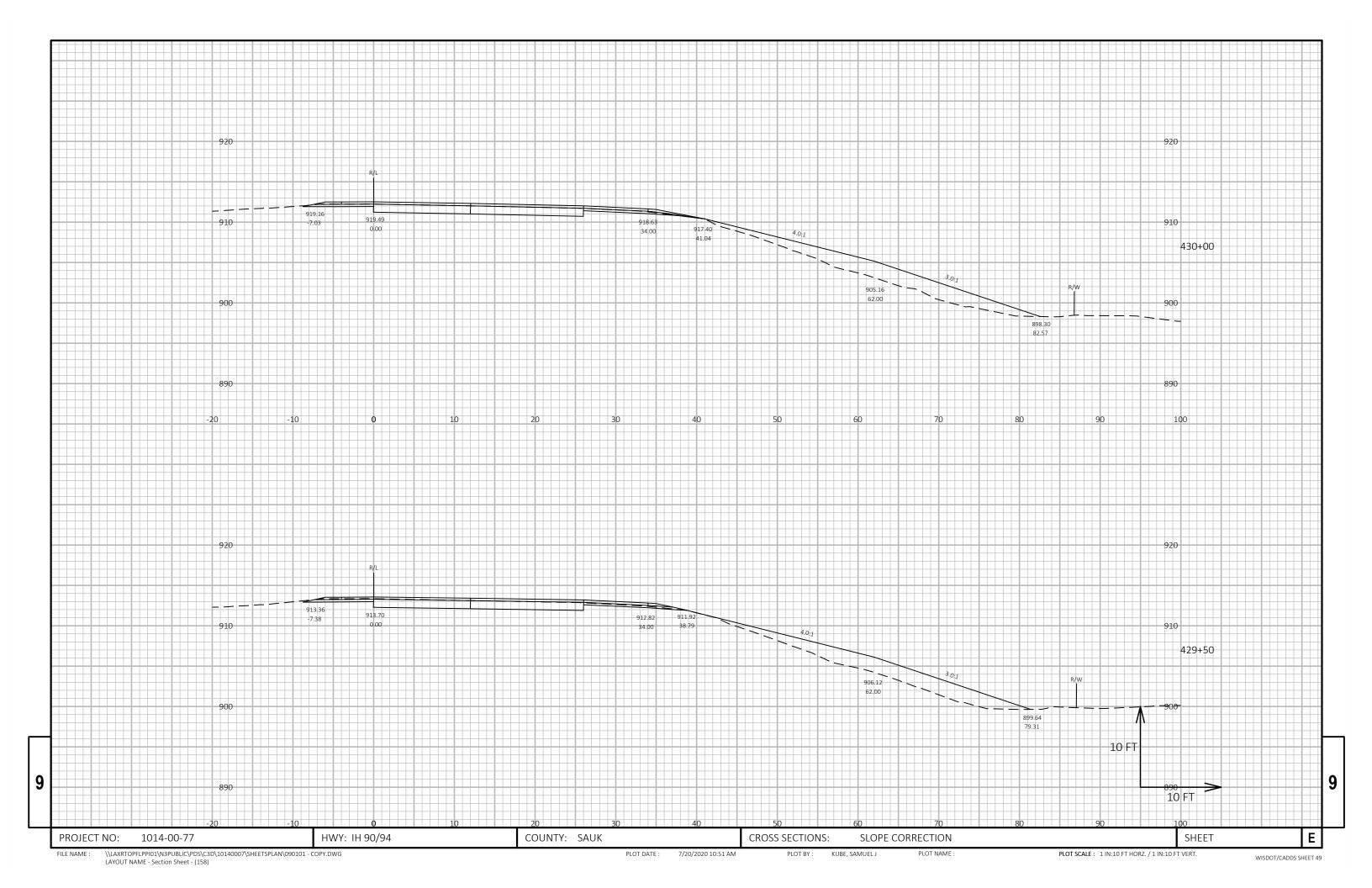
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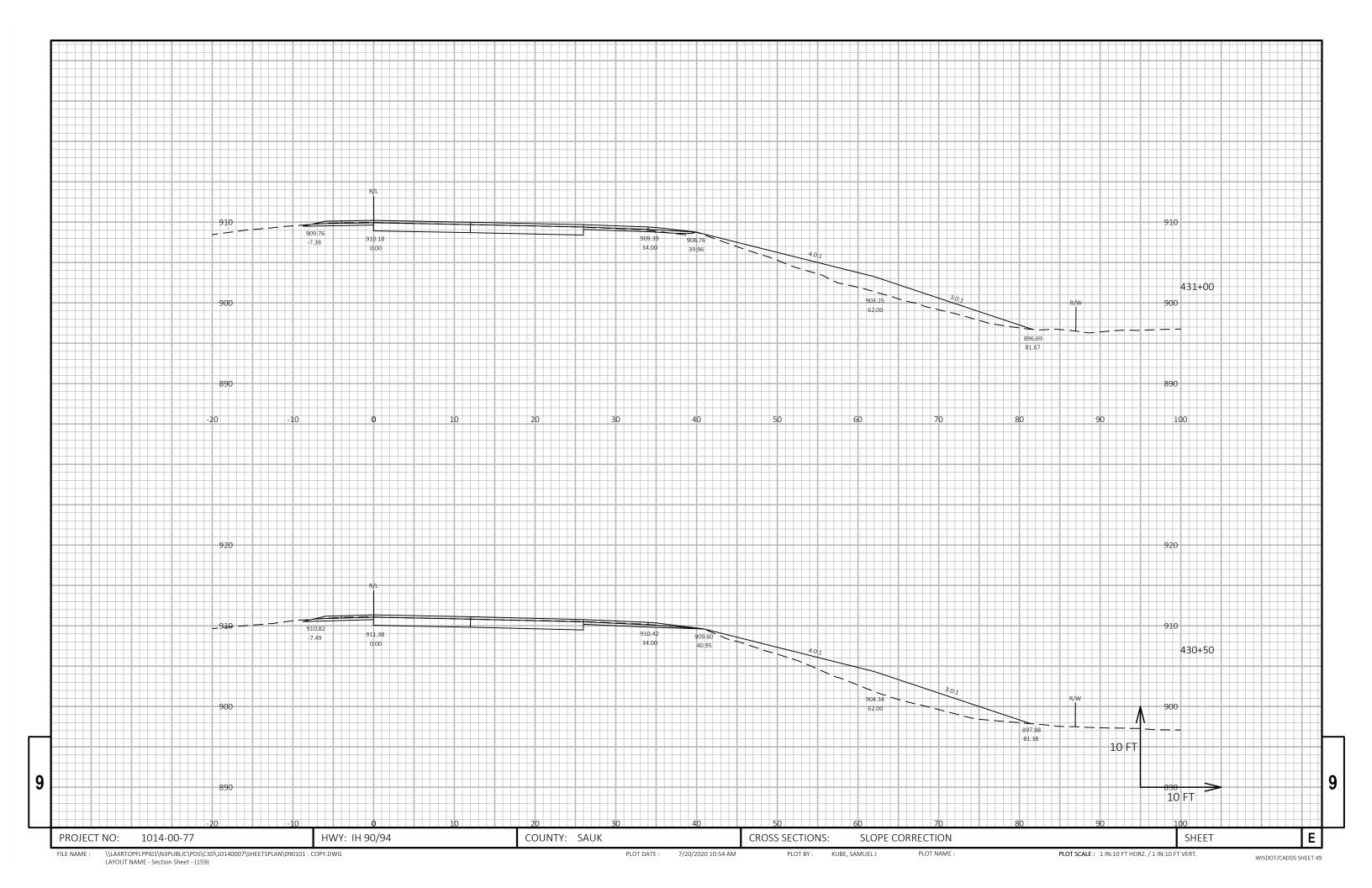


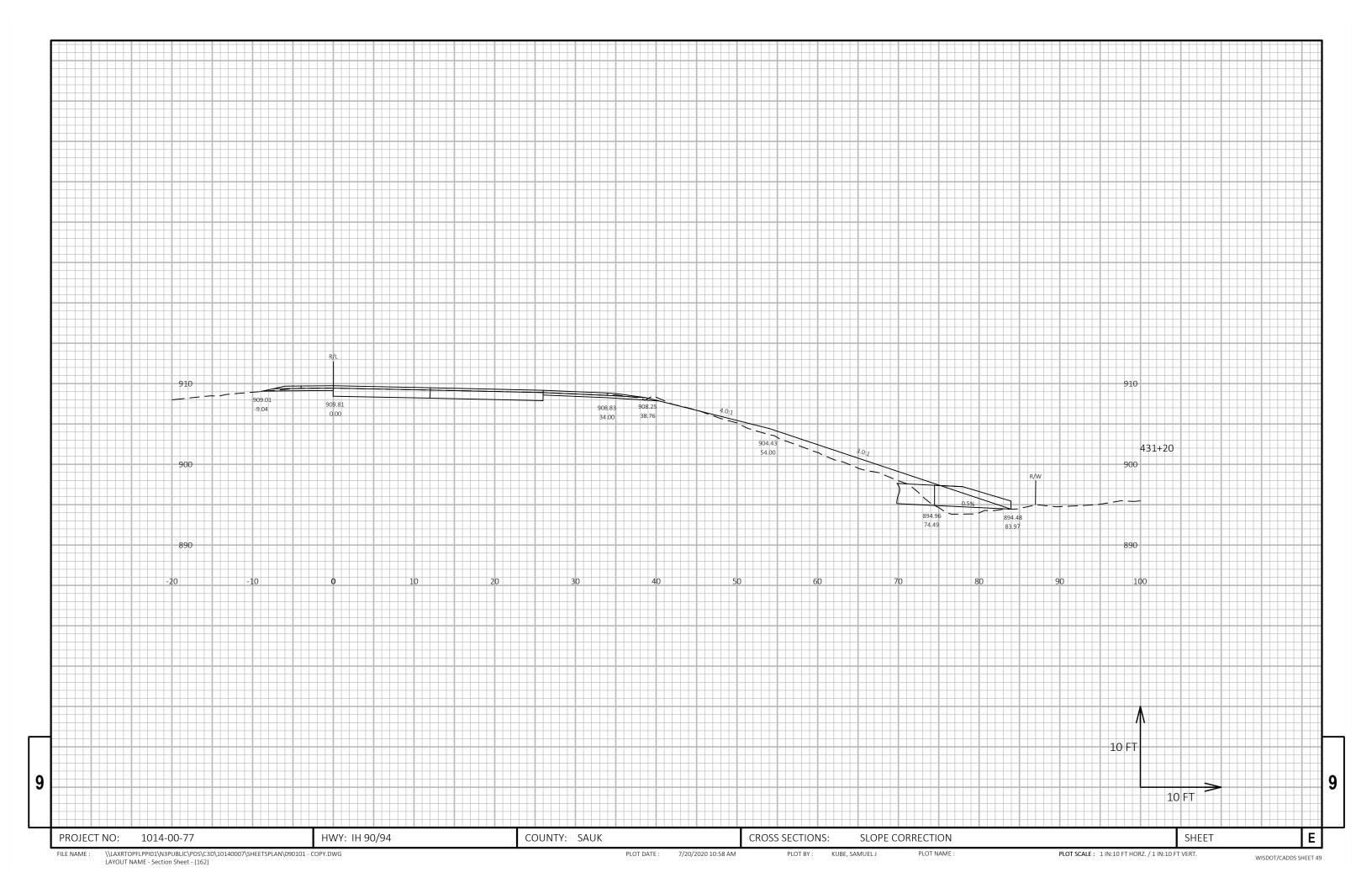


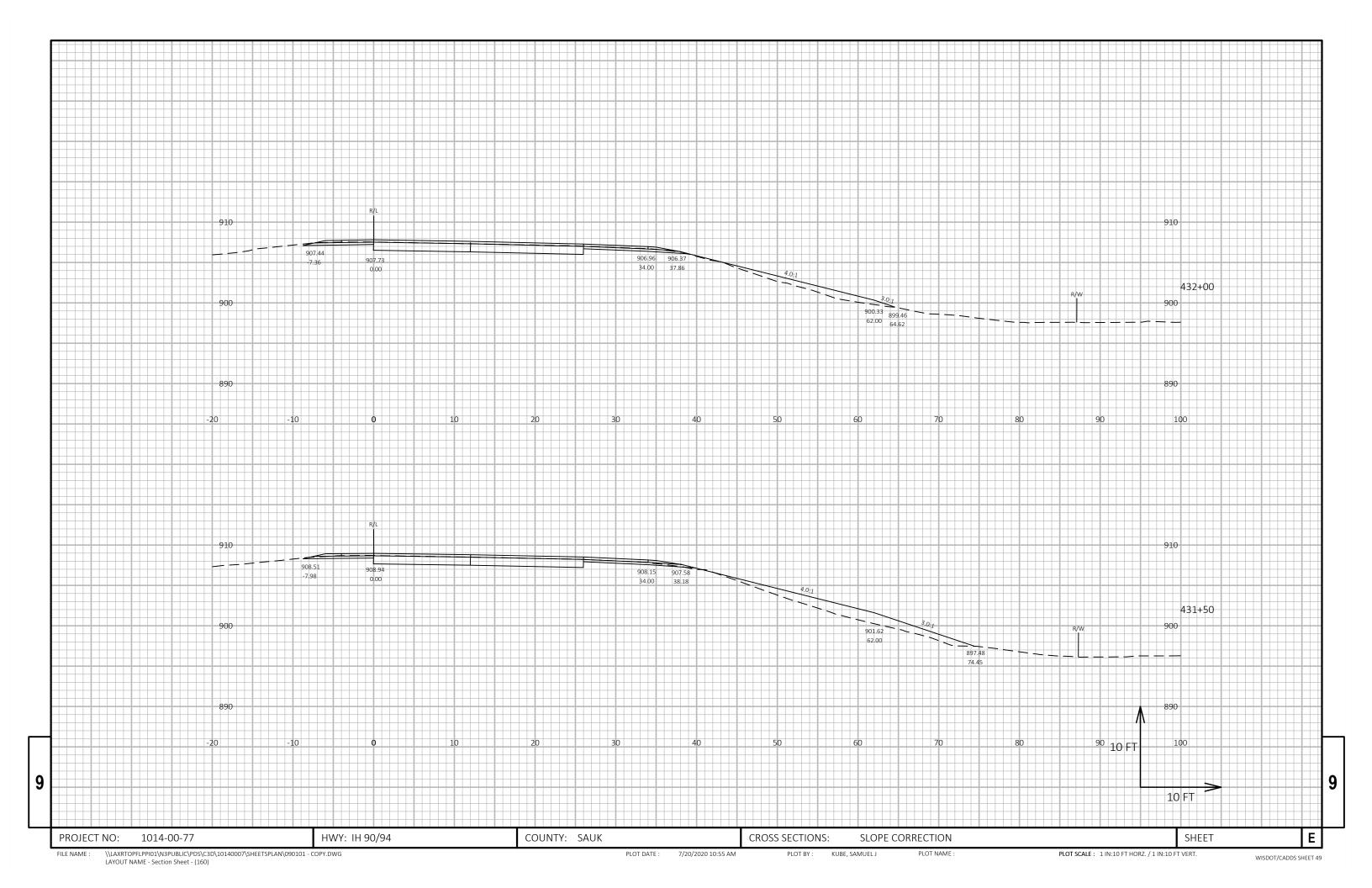


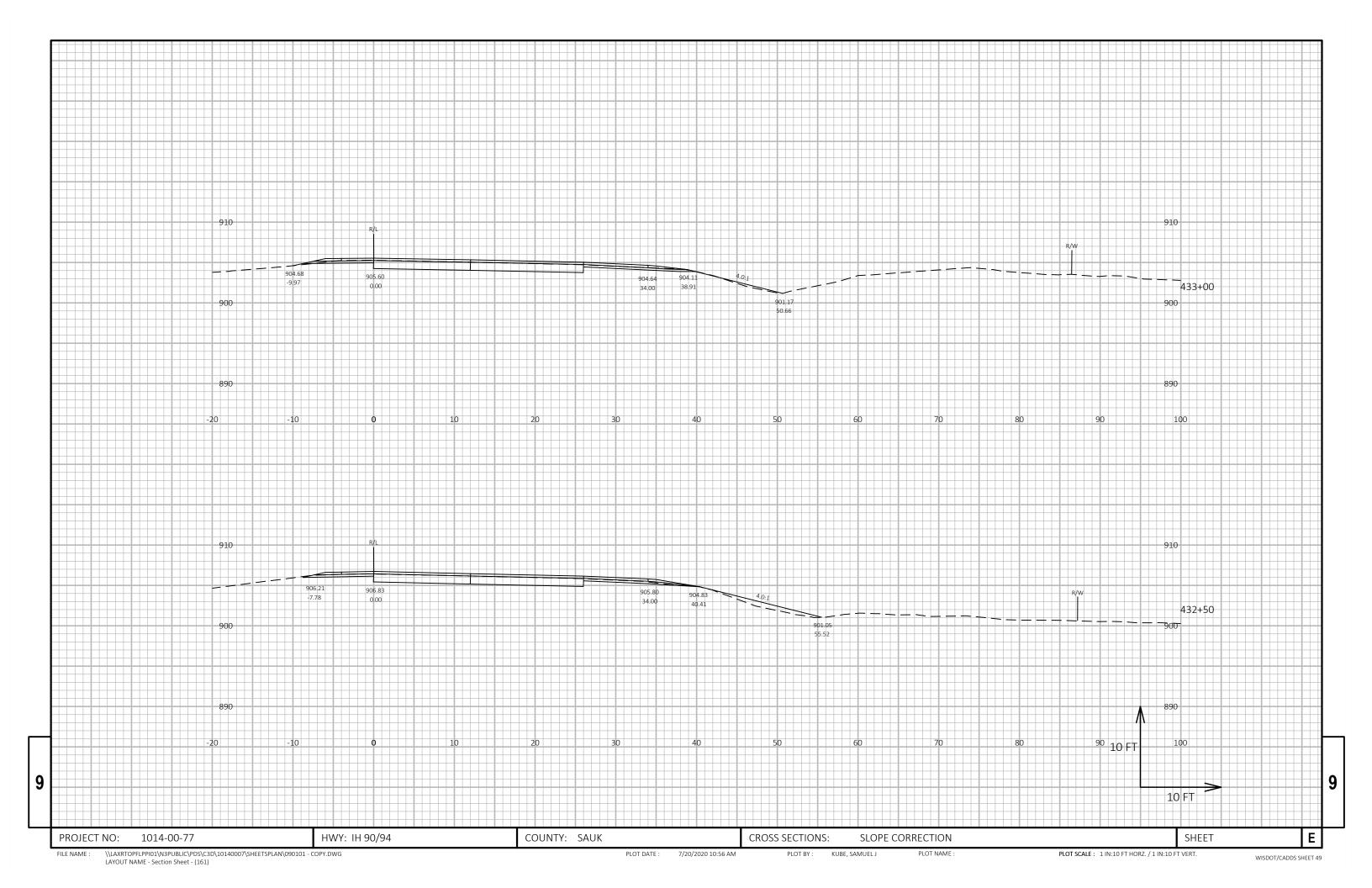


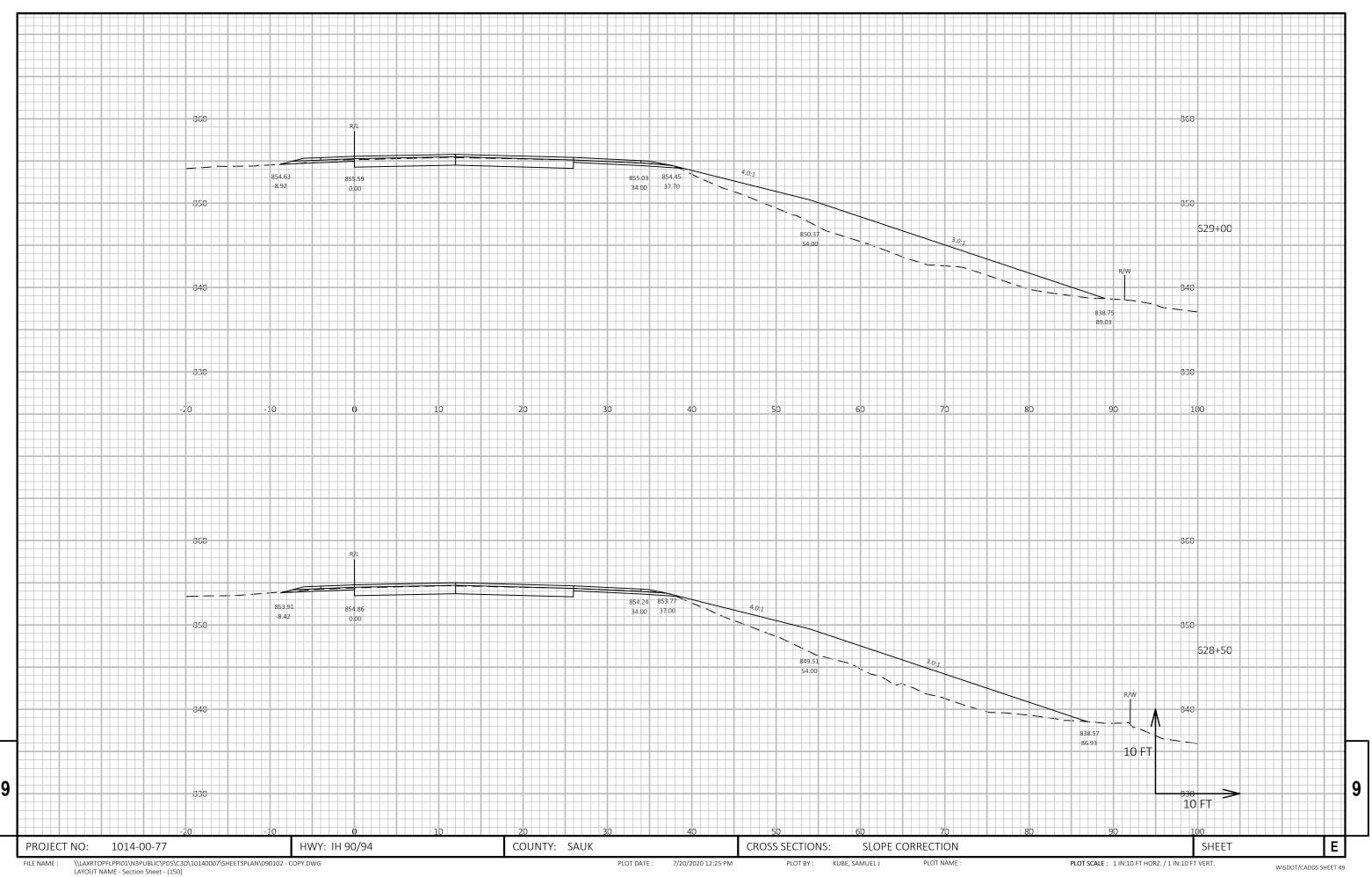


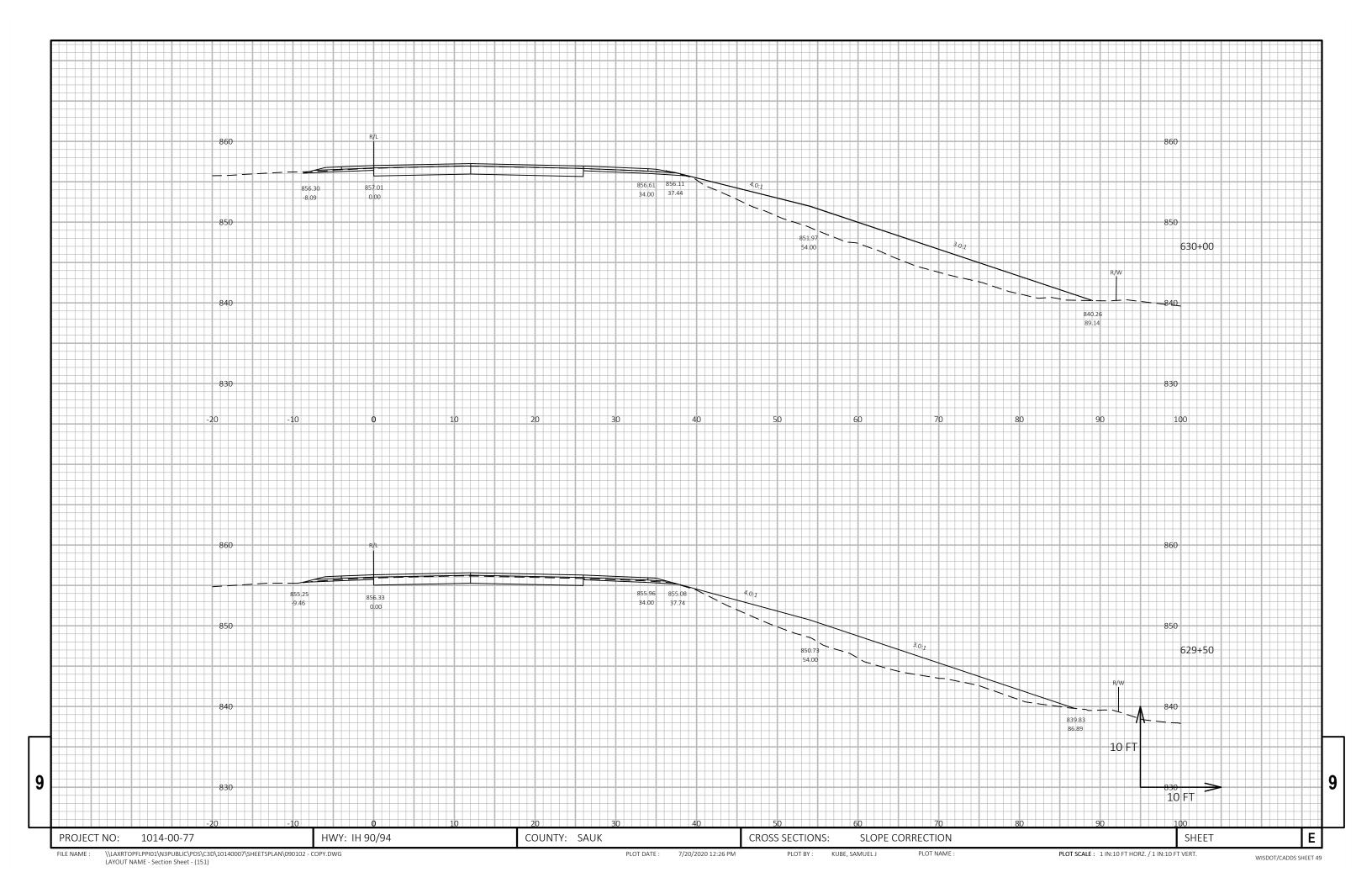


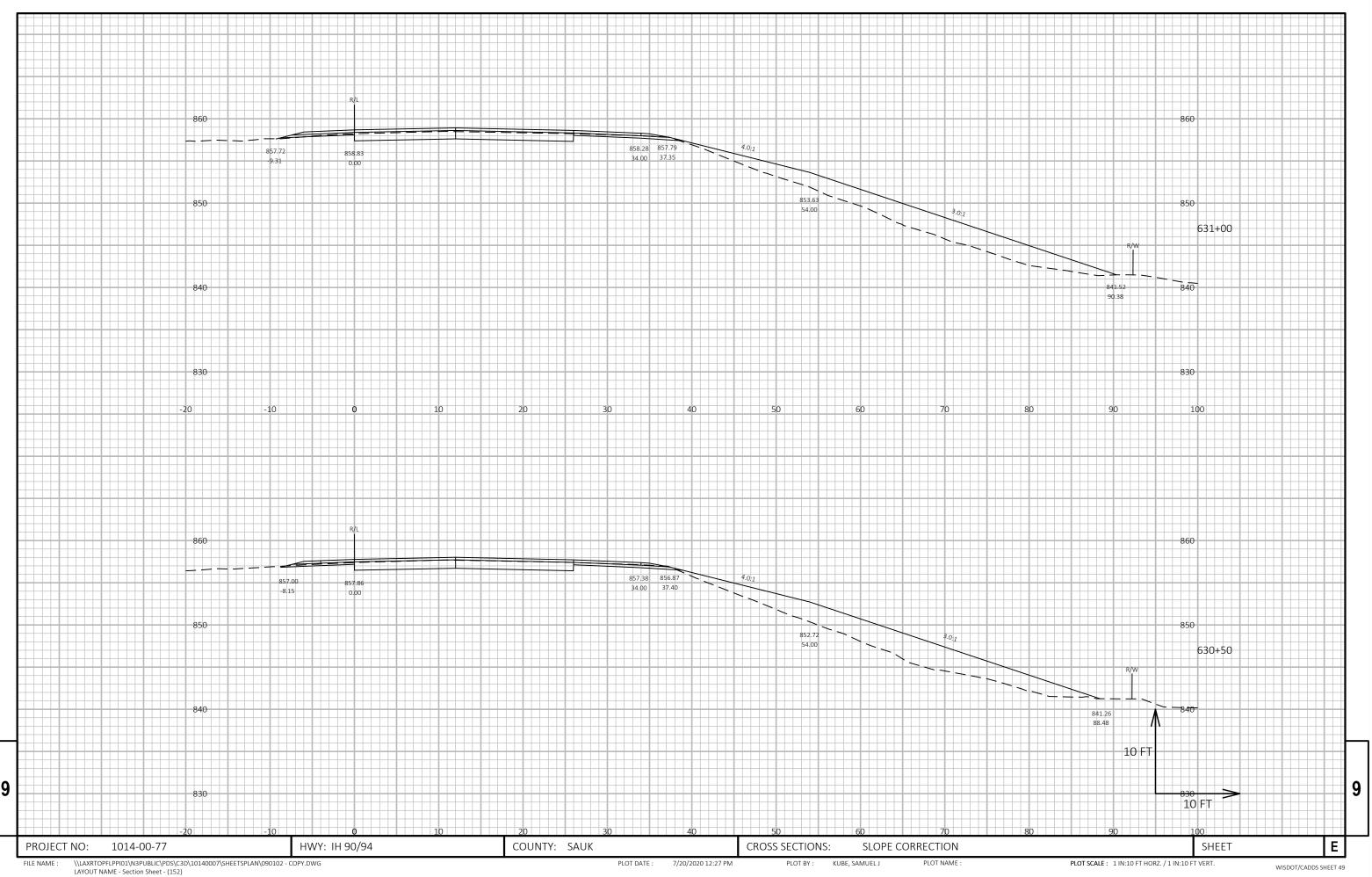


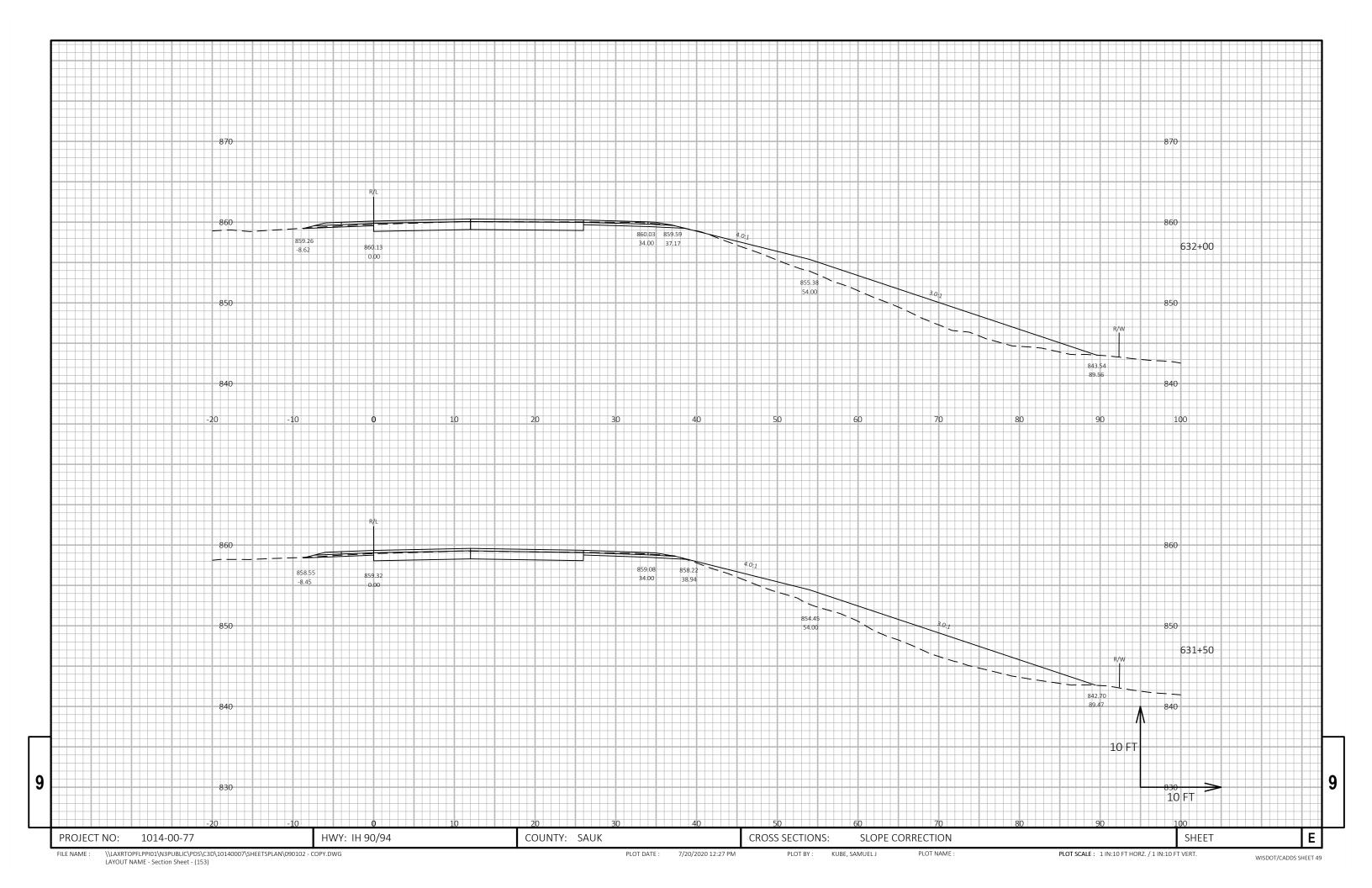


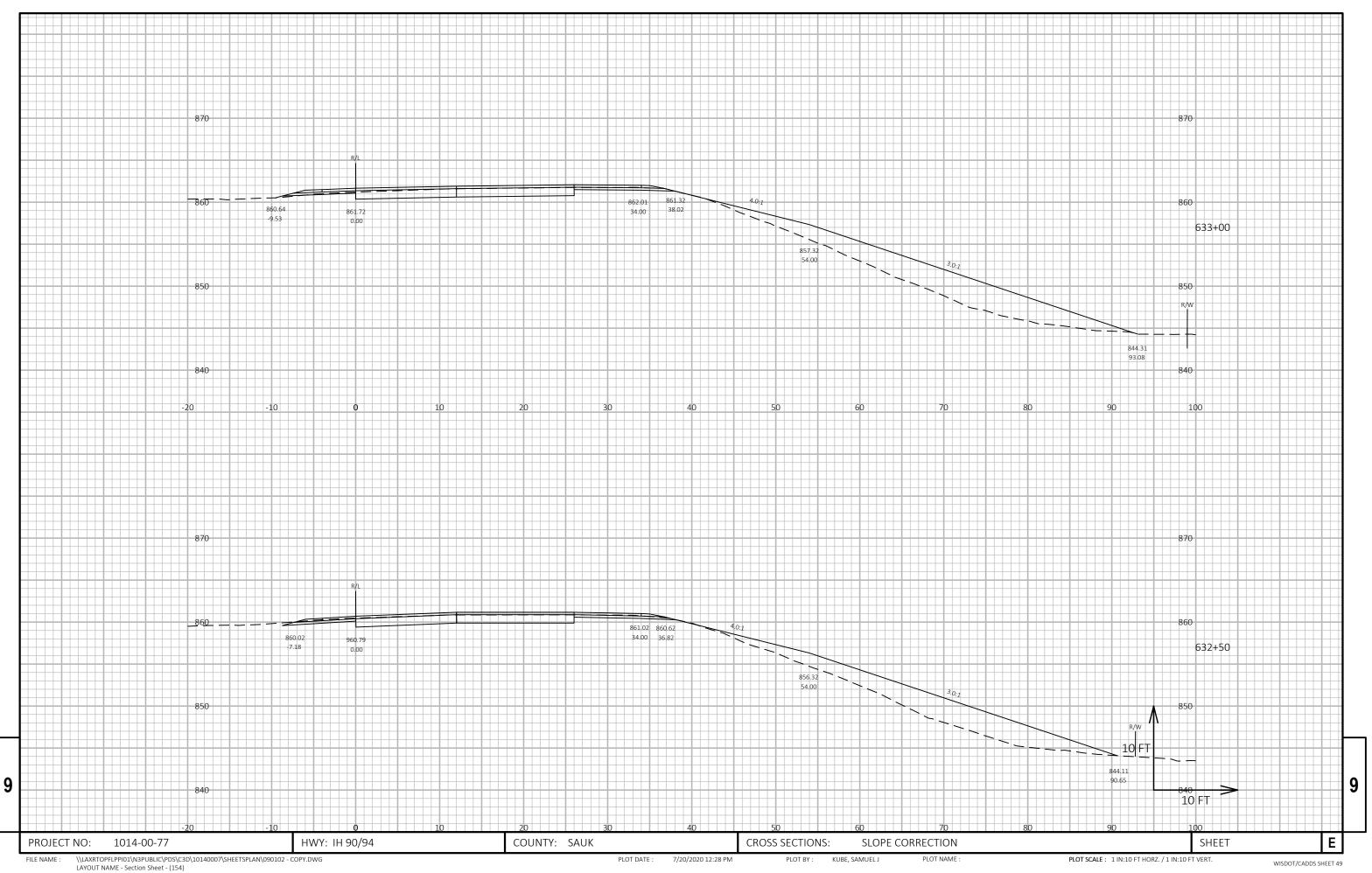


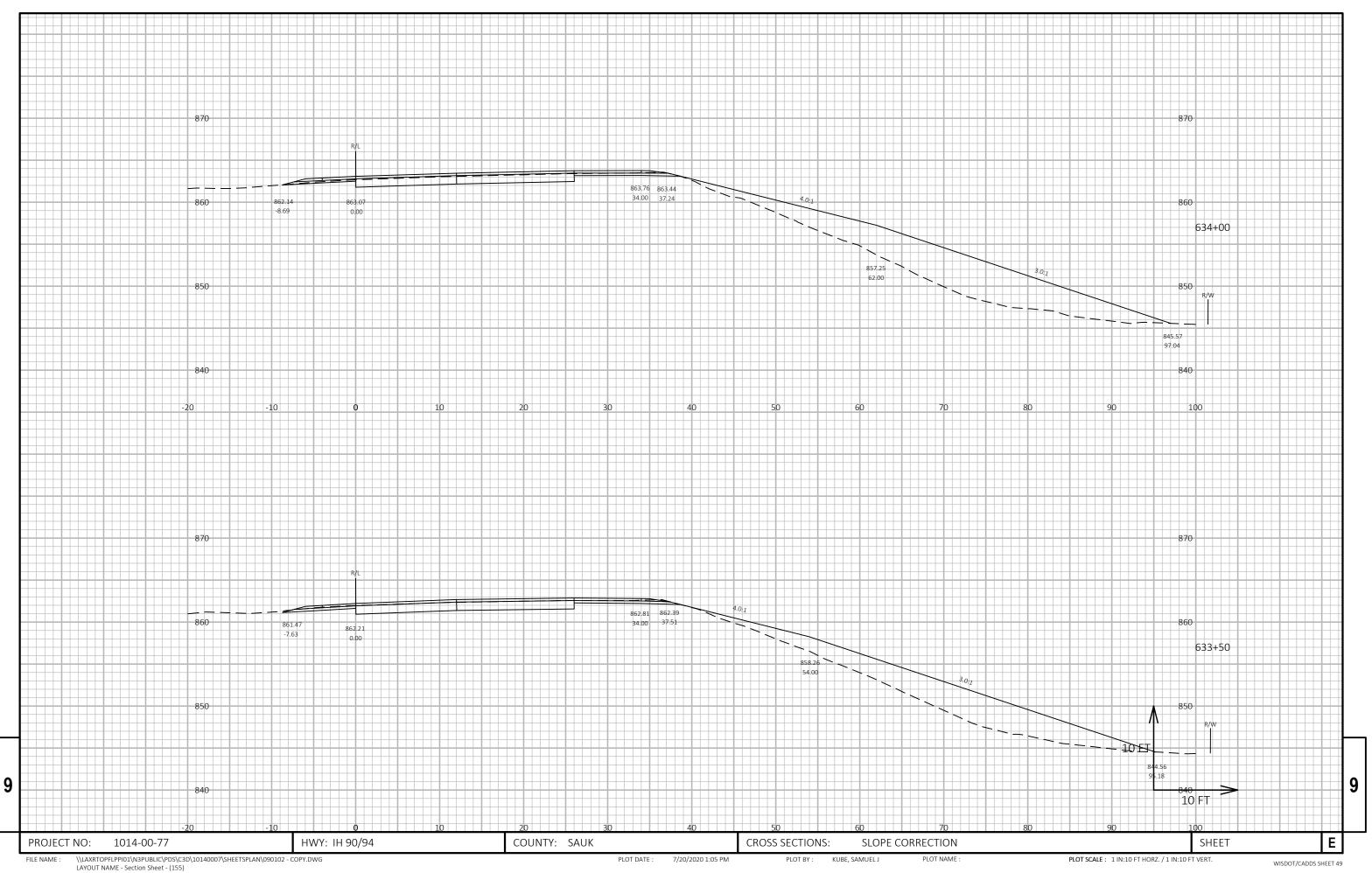


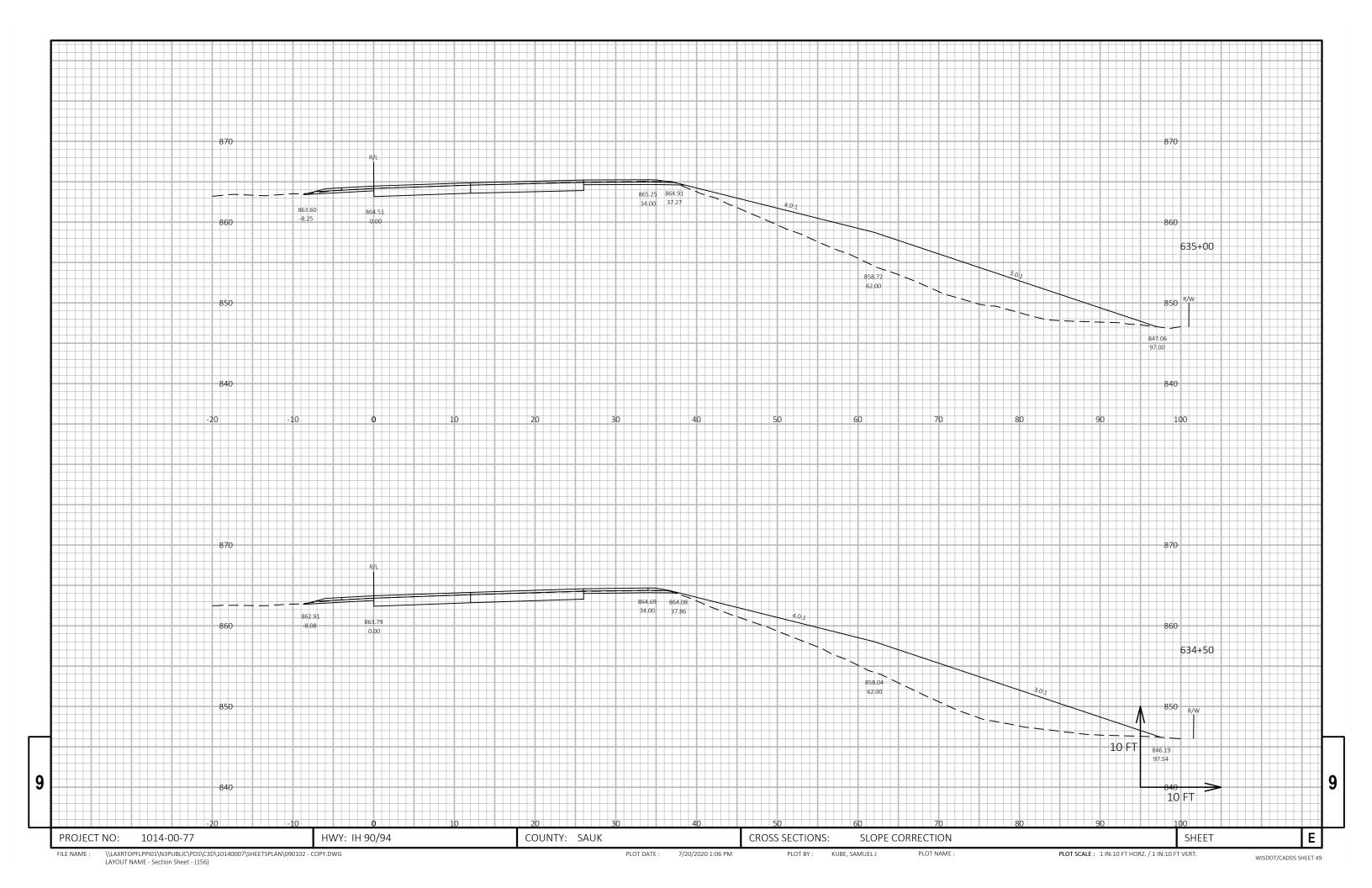


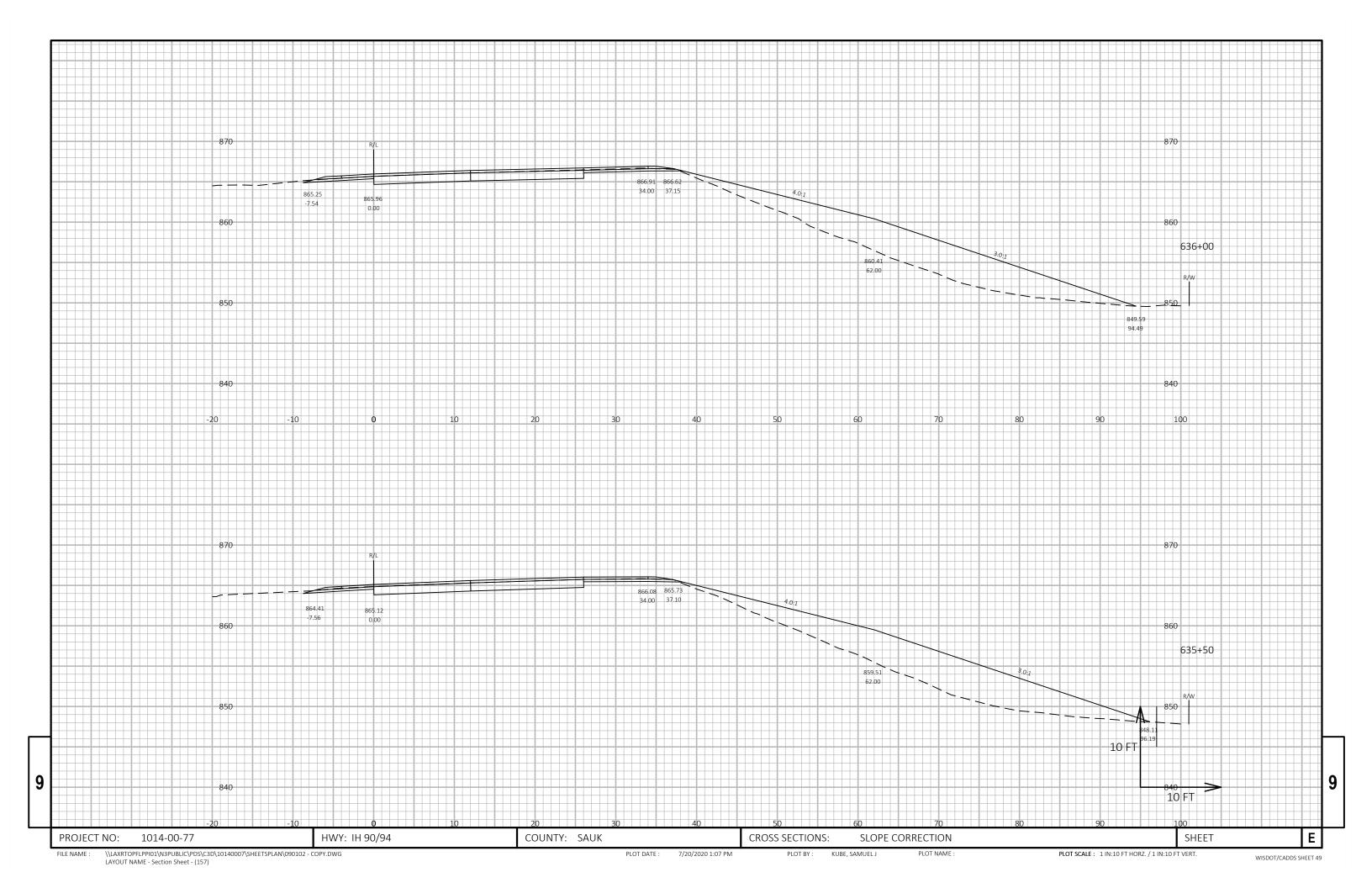


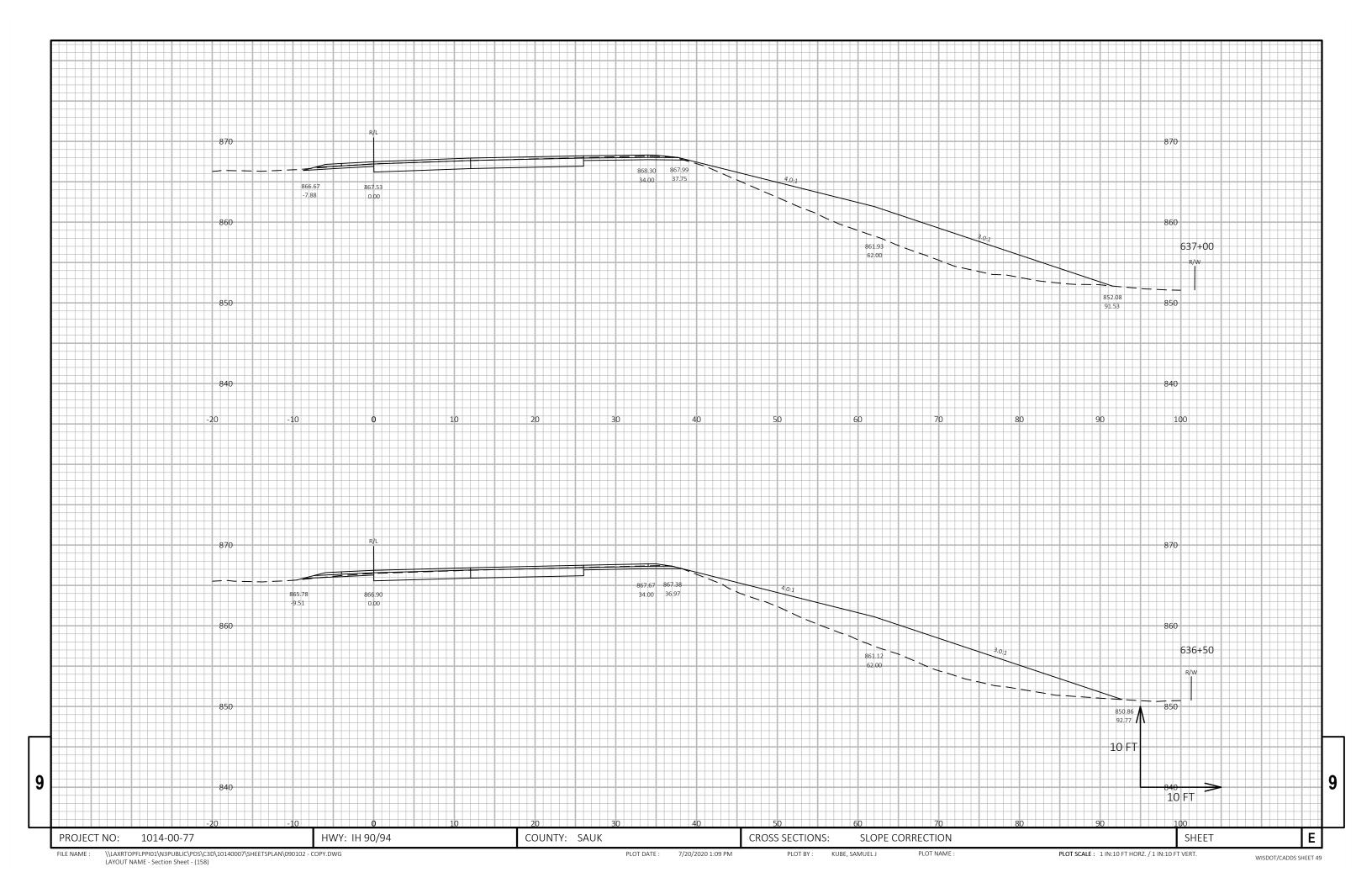


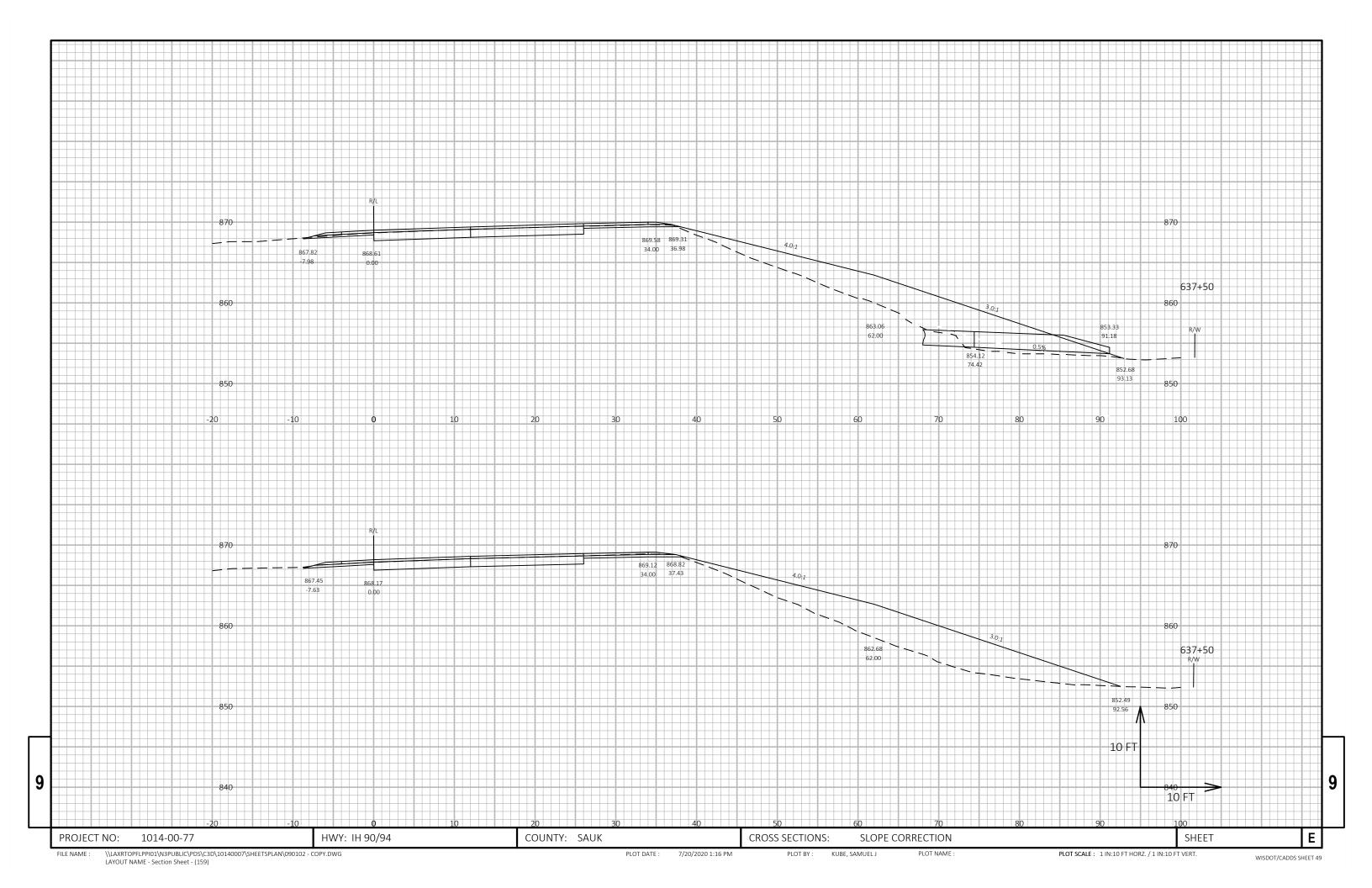


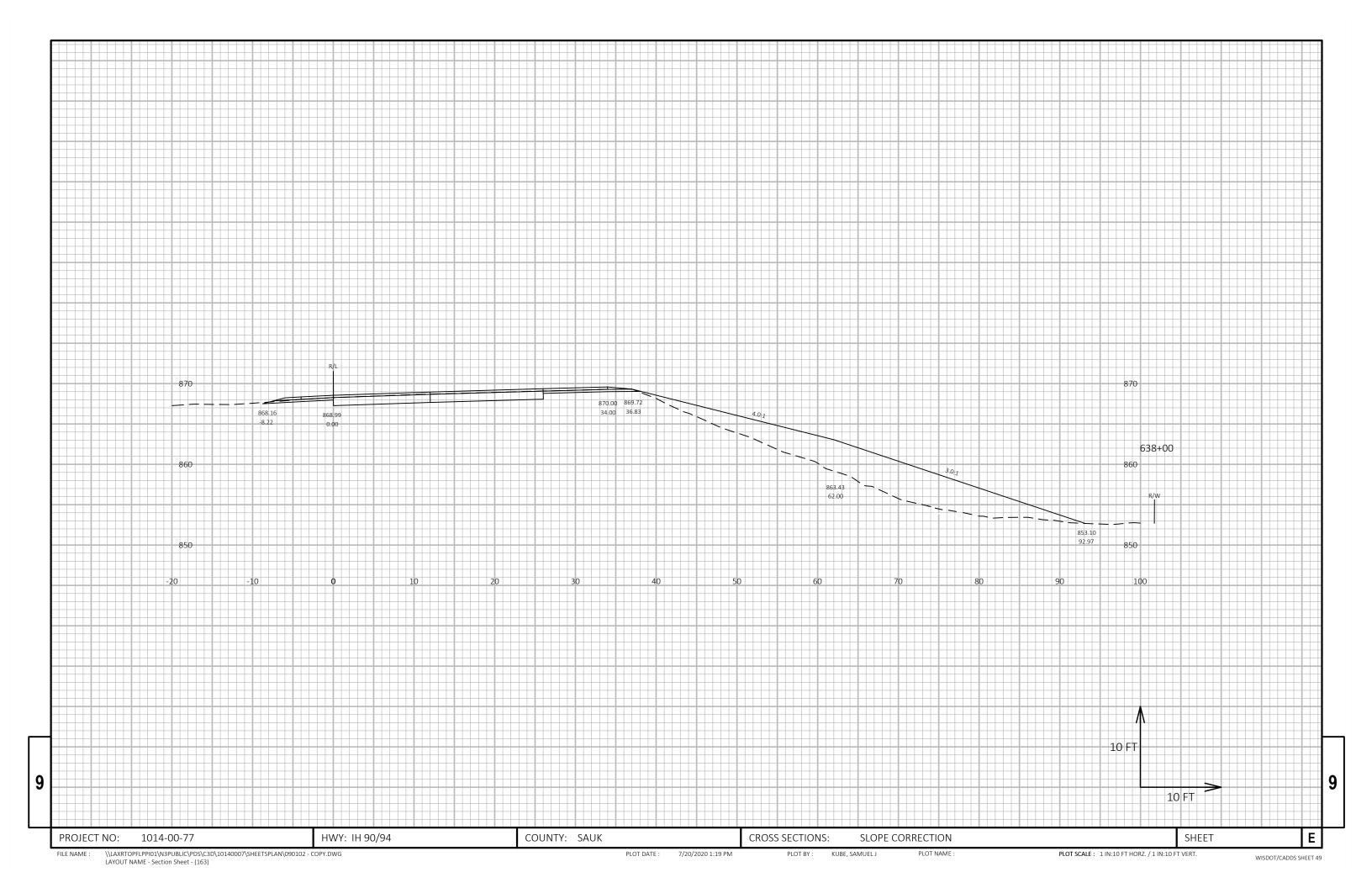


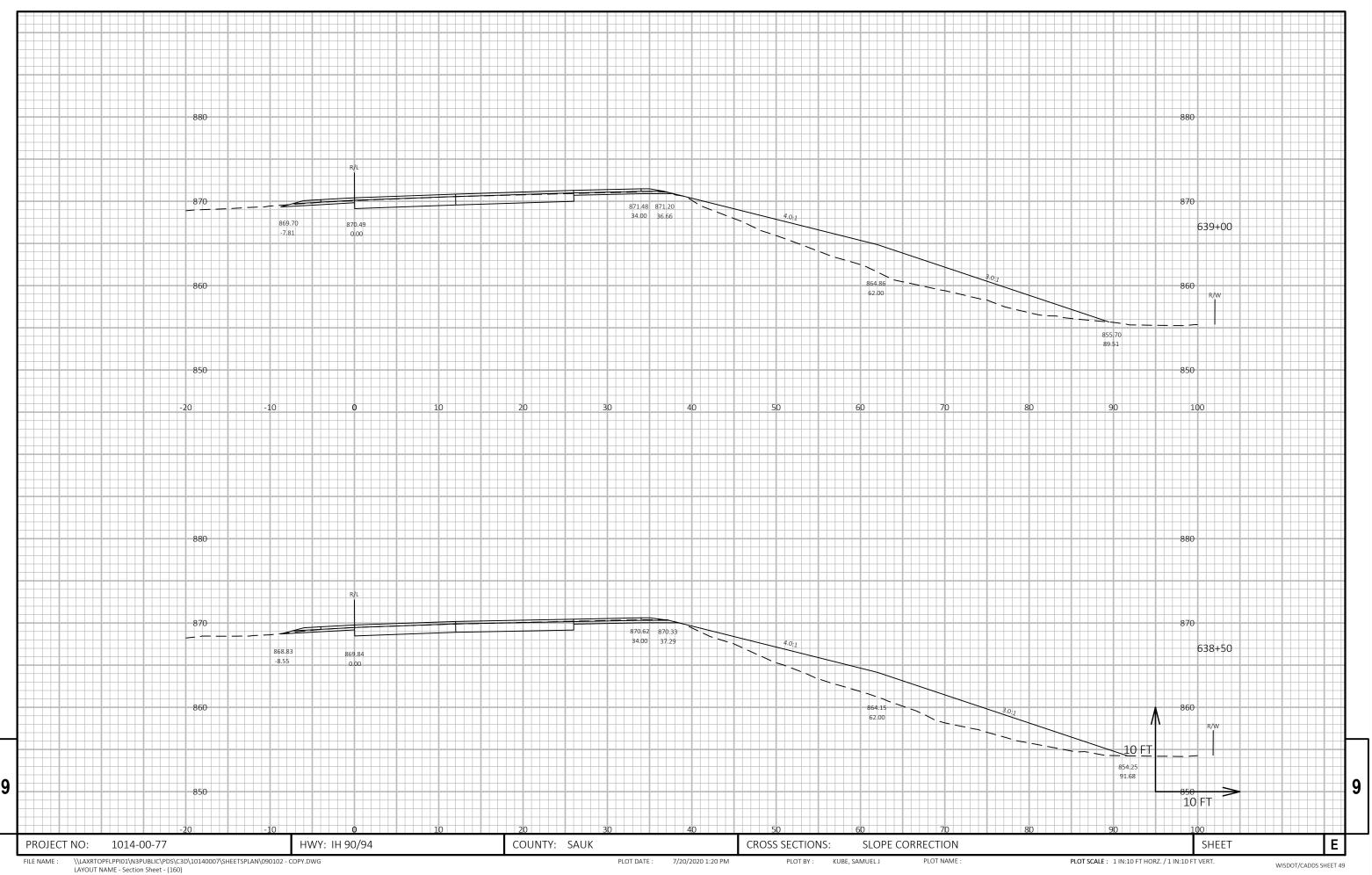


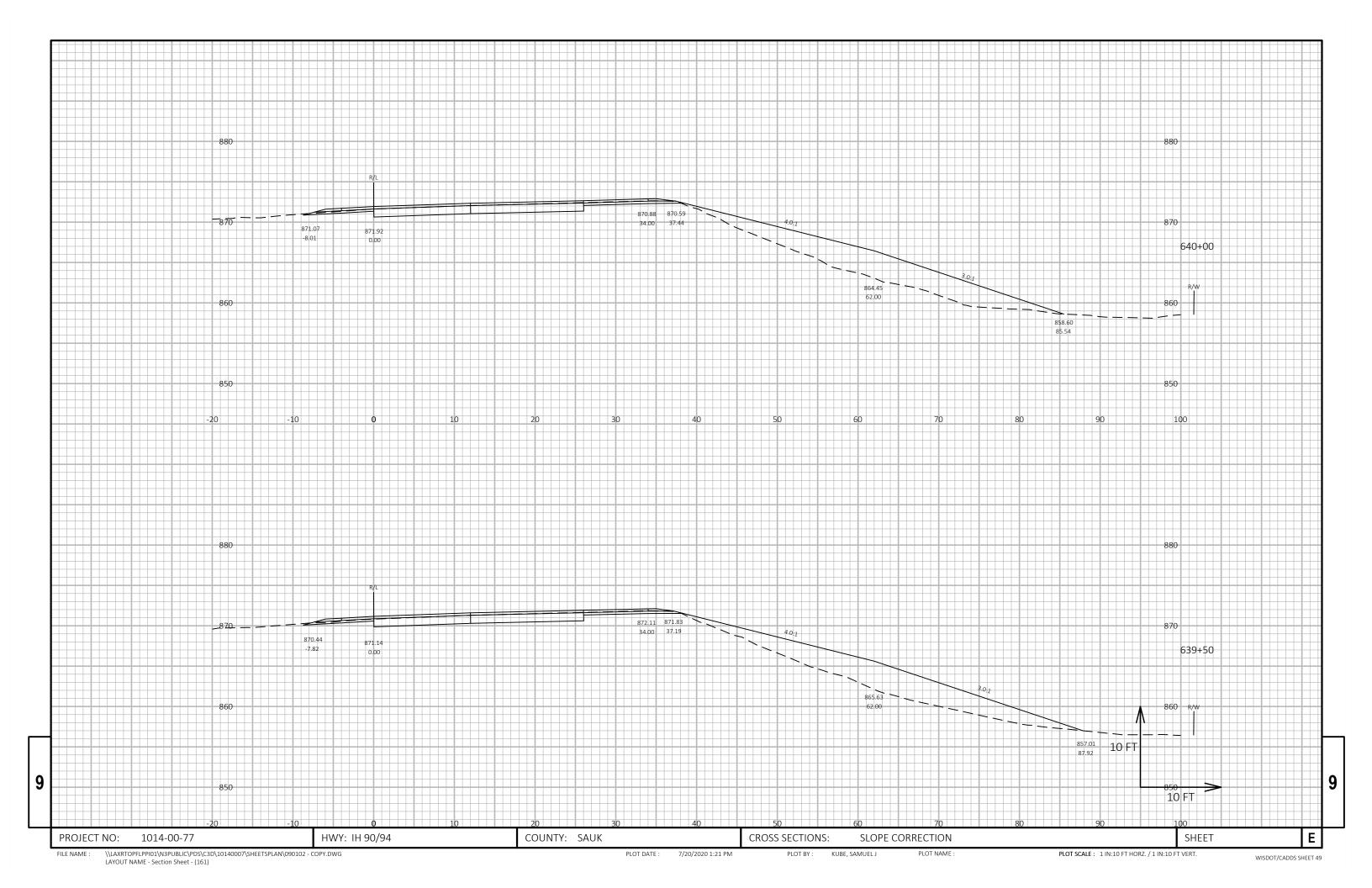


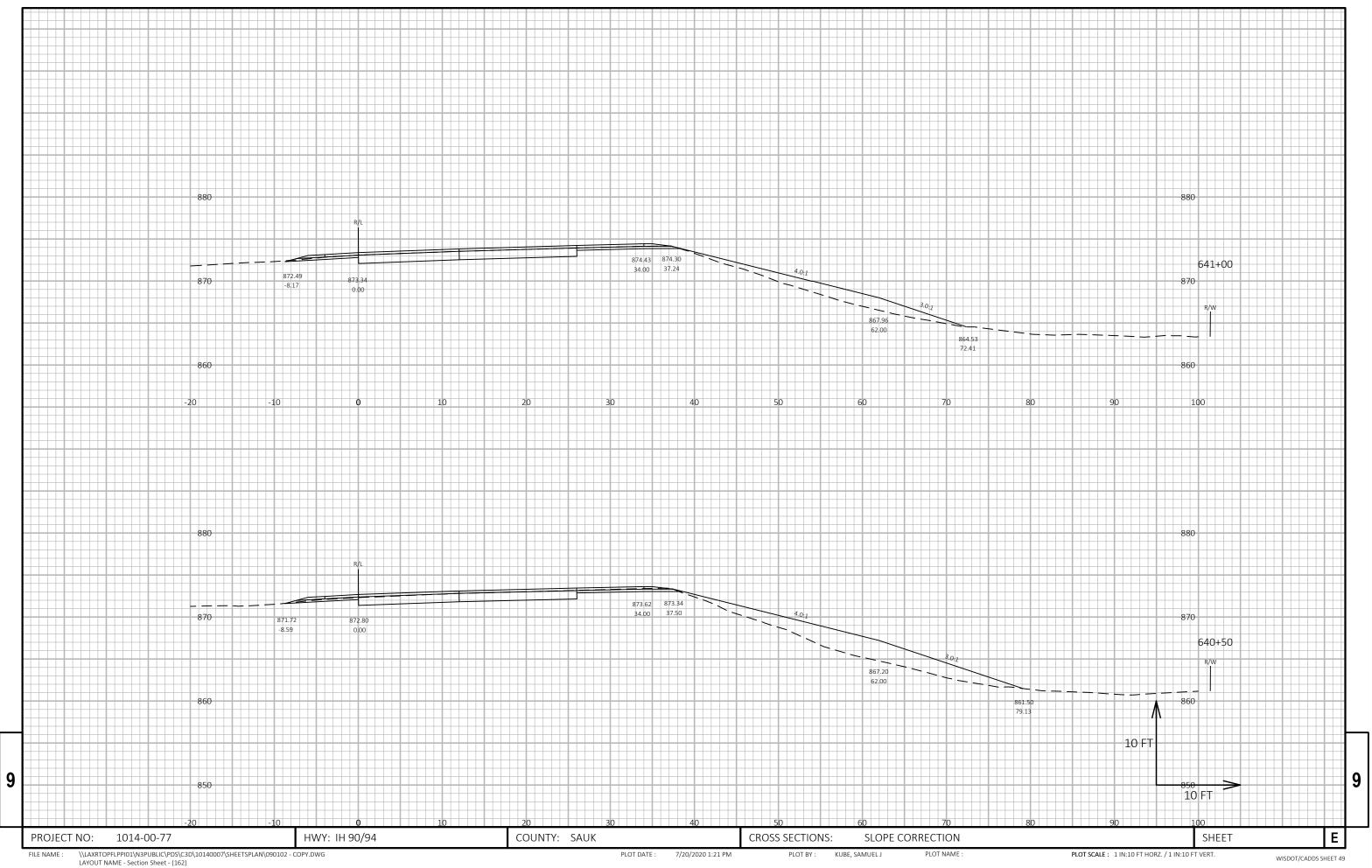


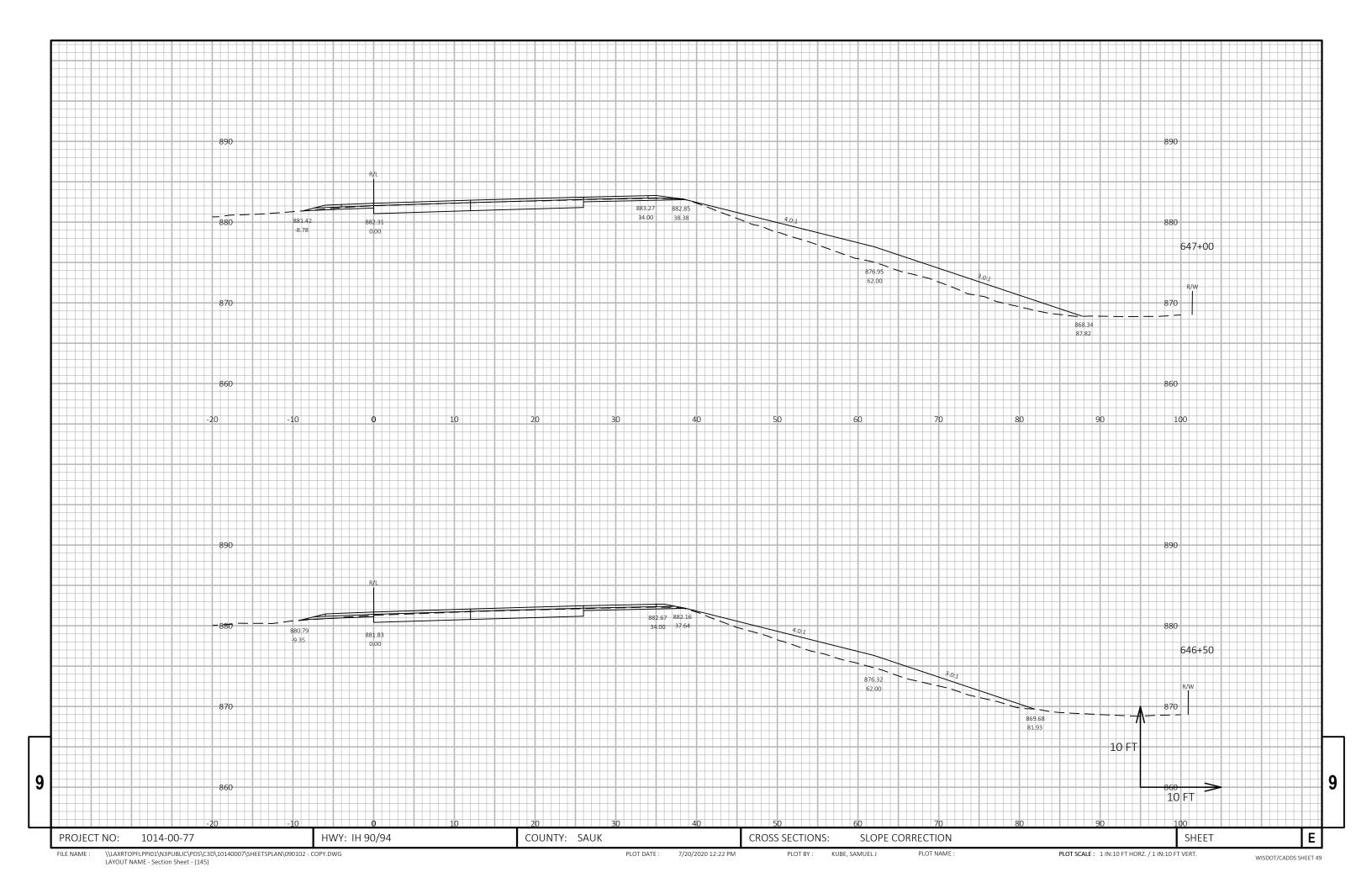


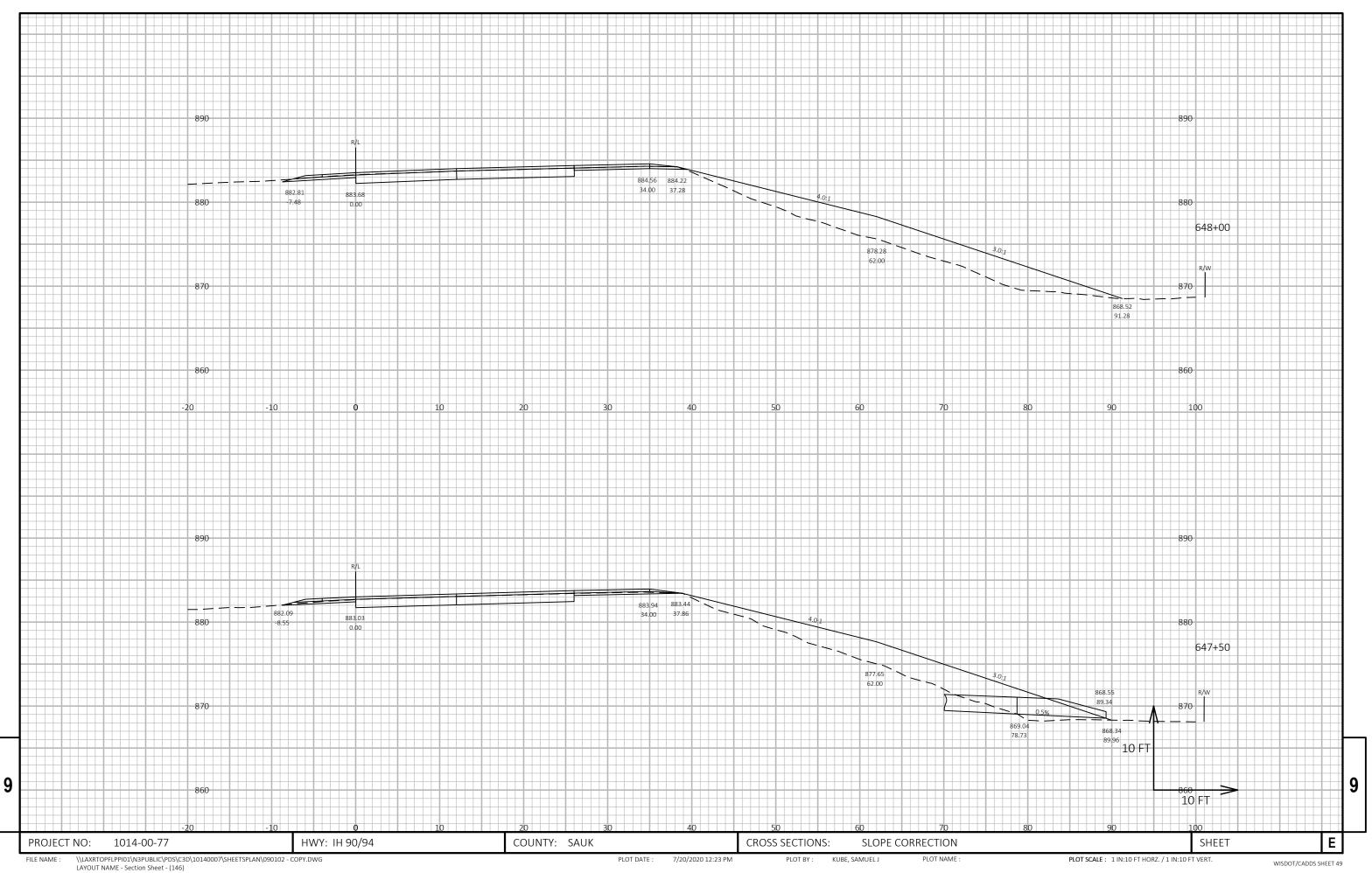


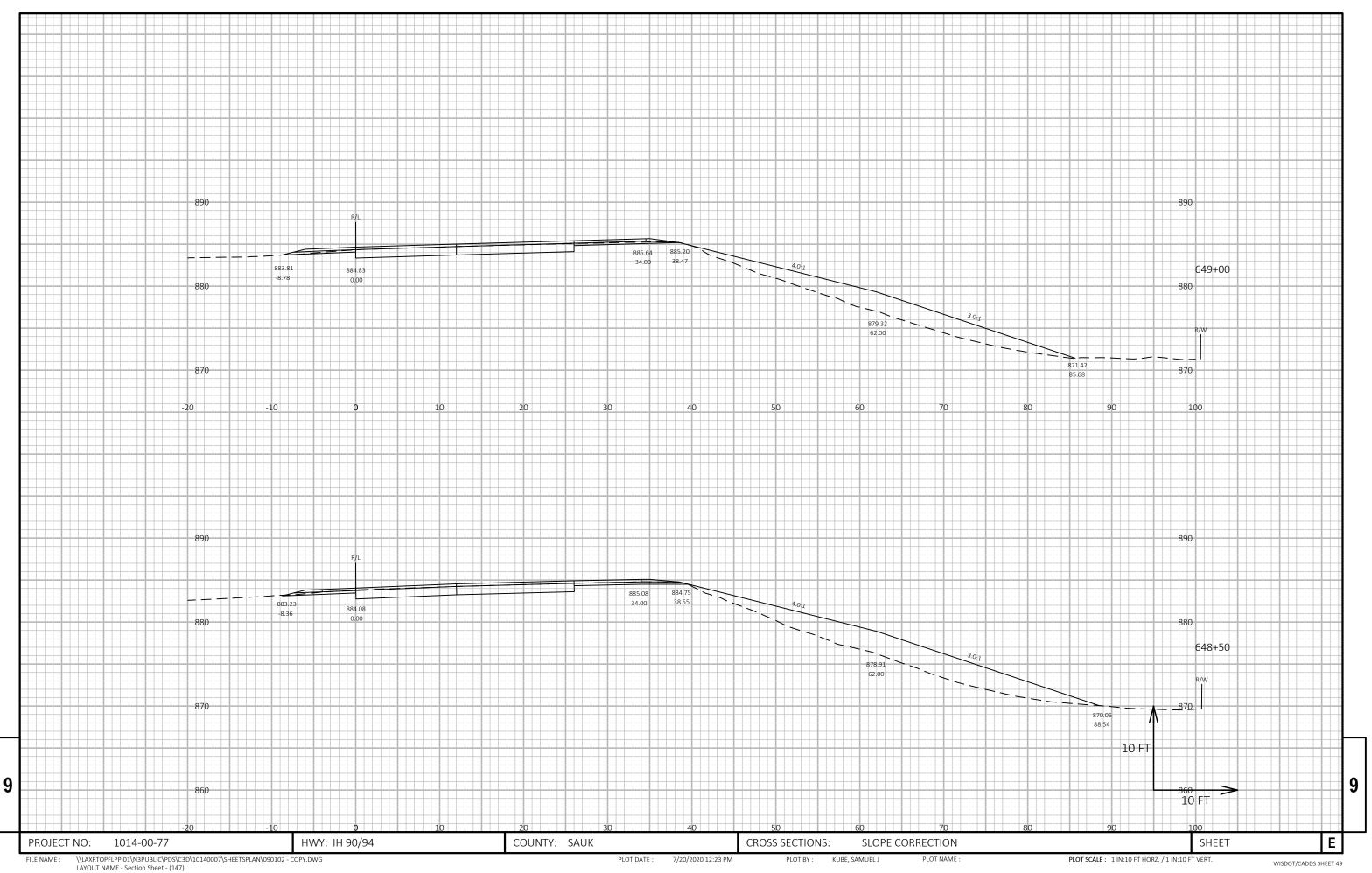


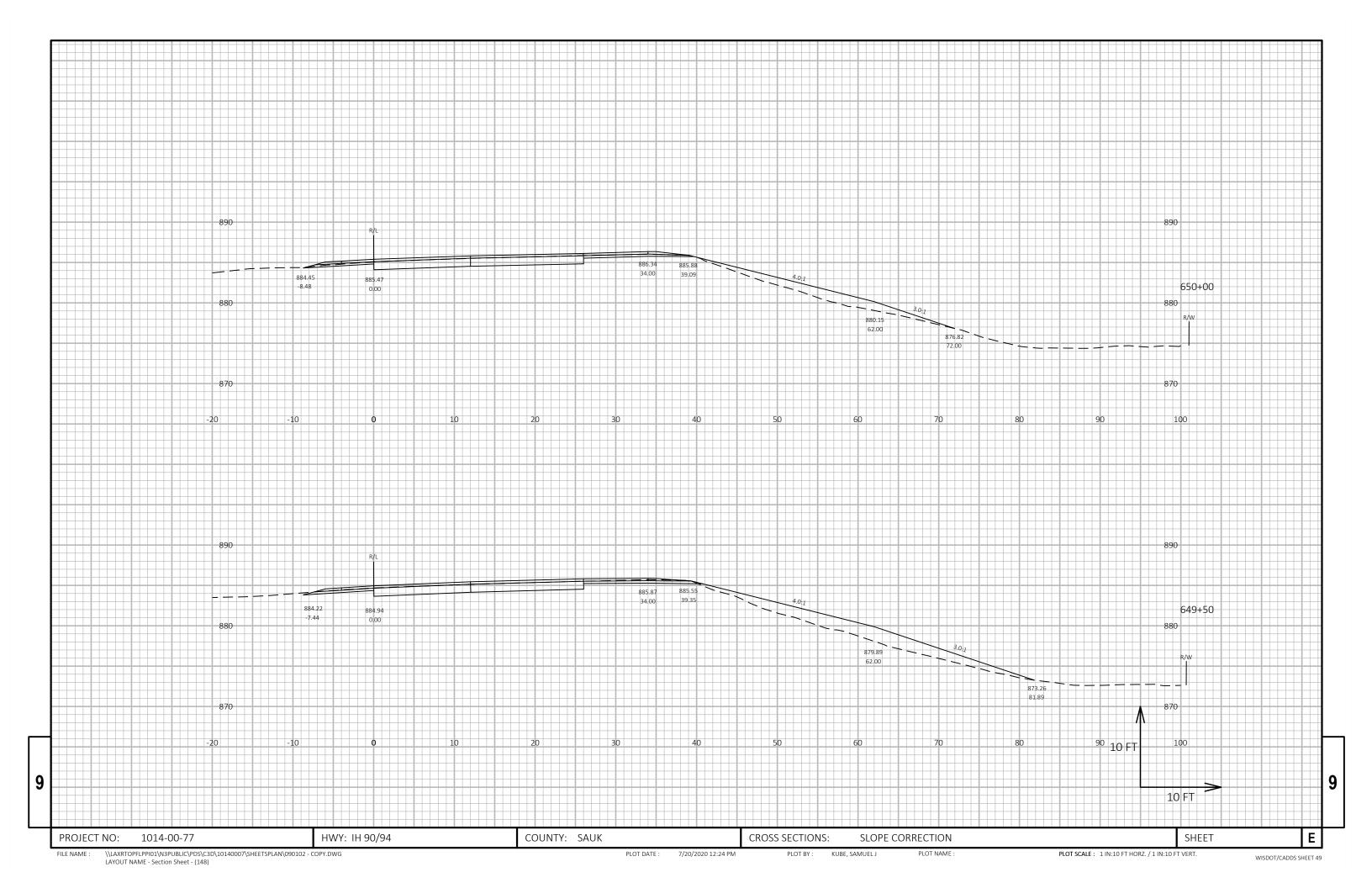


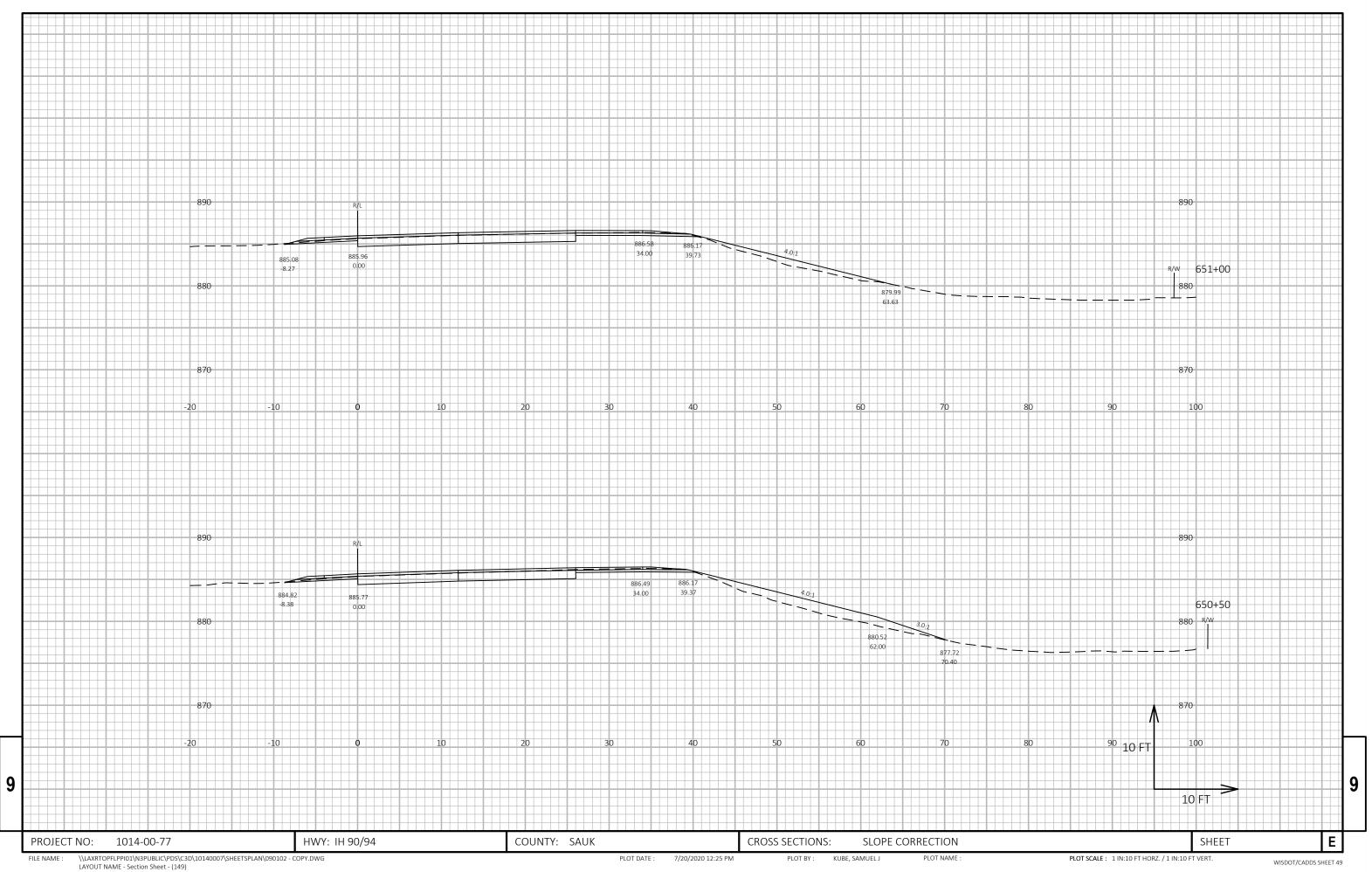


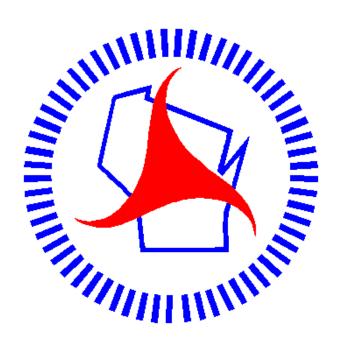












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