FILE NAME :

GENERAL NOTES

LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN

THIS PROJECT WILL INCLUDE CENTER AND EDGELINE RUMBLE STRIPS AND TYPE II SIGN REPLACEMENT.

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PLAN OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS

UTILITY CONTACTS

ANR PIPELINE COMPANY
LAWRENCE HUBER
ANR PIPELINE CO-GAS/PETROLEUM
W3925 PIPELINE LN
EDEN, WI 53019
920-477-2235
lawrence_huber@transcanada.com

AMERICAN TRANSMISSION COMPANY, LLC MIKE OLSEN ATC MANAGEMENT, INC. 801 O'Keefe Rd, P.O. BOX 6113 DE PERE, WI 54115 920-338-6582 molsen@atcllc.com

CHARTER SPECTRUM COMMUNICATIONS
VINCENT ALBIN
CHARTER SPECTRUM
3520 E DESTINATION DR
APPLETON, WI 54915
920-831-9249
vince.albin@twcable.com

FRONTIER NORTH INC. RUSS RYAN FRONTIER NORTH INC. 107 PLEASANTVIEW DR PLYMOUTH, WI 53073 920-893-7212 Russell.w.ryan@ftr.com

GUARDIAN PIPELINE
VICTOR DUFOUR
GUARDIAN PIPLINE-GAS/PETROLEUM
23823 W AMOCO RD
CHANNAHON, IL 60410
815-467-4633
victor.dufour@oneok.com

TDS TELECOM STEVE JAKUBIEC STOCKBRIDGE & SHERWOOD TELEPHONE COMPANY 10 COLLEGE AVE APPLETON, WI 54911 920-882-4166 steve.jakubiec@dstelecom.com VILLAGE OF HILBERT-SEWER
DENNIS DUPREY
PUBLIC WORKS/WATER DEPARTMENT
26 N. 6TH ST, P.O. BOX 266
HILBERT, WI 54129
920-853-3241

hilbertdpw@bugnet.net

hilbertdpw@bugnet.net

VILLAGE OF HILBERT-WATER
DENNIS DUPREY
PUBLIC WORKS/WATER DEPARTMENT
26 N. 6TH ST, P.O. BOX 266
HILBERT, WI 54129
920-853-3241

VILLAGE OF SHERWOOD-SEWER BRUCE GENSKOW VILLAGE OF SHERWOOD-SEWER W482 CLIFTON RD SHERWOOD, WI 54169 920-989-4096 Sherwoodutility@tds.net

VILLAGE OF SHERWOOD-WATER BRUCE GENSKOW VILLAGE OF SHERWOOD-WATER W482 CLIFTON RD SHERWOOD, WI 54169 920-989-4096 Sherwoodutility@tds.net

WE ENERGIES-ELECTRIC
LATROY BRUMFIELD
WISCONSIN ELECTRIC POWER COMPANY
333 W EVERETT ST, RM A299
MILWAUKEE, WI 53203
414-221-5617
LaTroy.Brumfield@we-energies.com

WE ENERGIES-GAS
LATROY BRUMFIELD
WISCONSIN ELECTRIC POWER COMPANY
333 W EVERETT ST, RM A299
MILWAUKEE, WI 53203
414-221-5617
LaTroy.Brumfield@we-energies.com

DNR LIASION

MATT SCHAEVE
DEPARTMENT OF NATURAL RESOURCES
NORTHEAST REGION
2984 SHAWANO AVE
GREEN BAY, WI 54313
(920)366-1544
matthew.schaeve@wisconsin.gov

CALUMET COUNTY COMMISSIONER

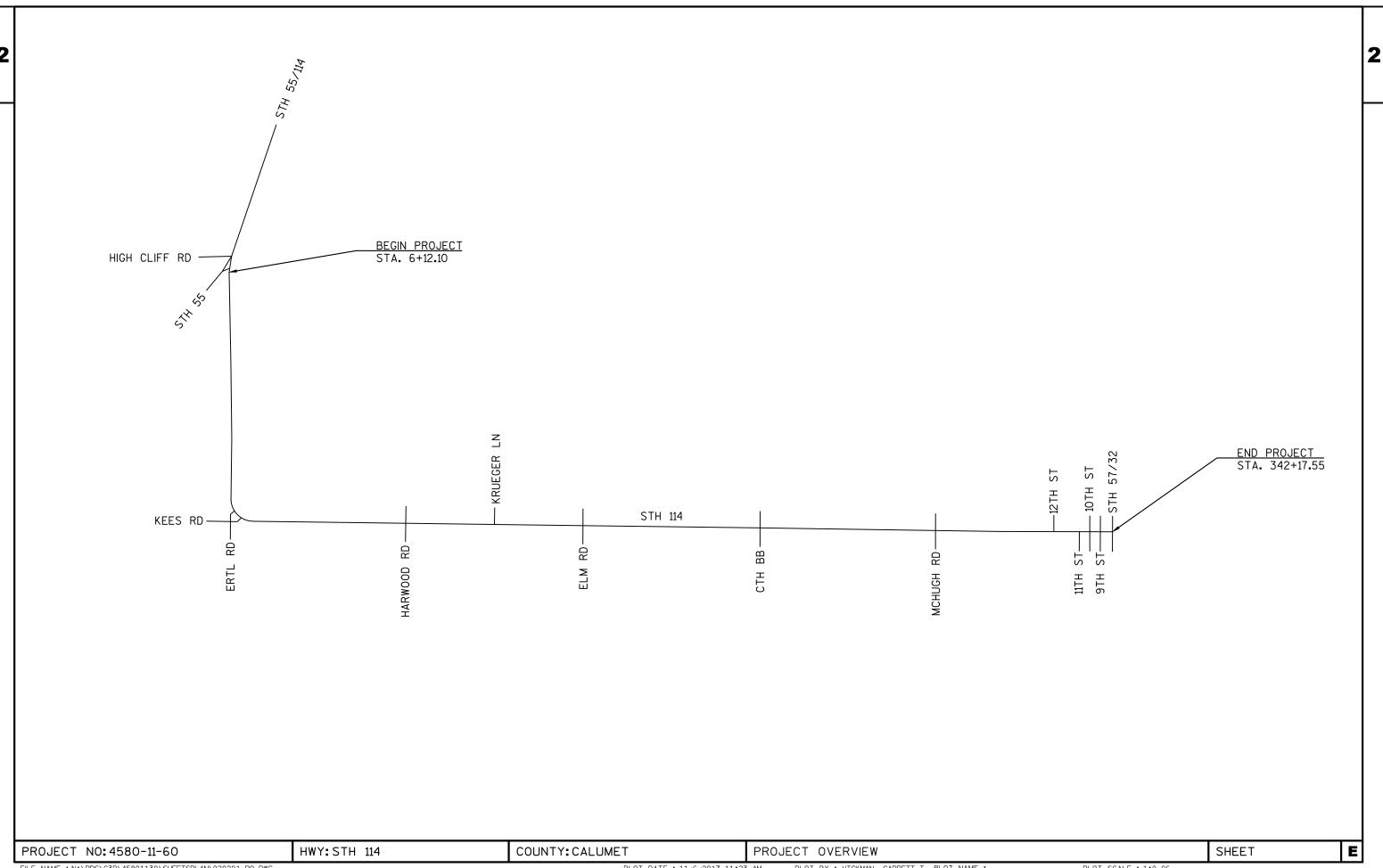
BRIAN GLAESER
HIGHWAY COMMISSIONER
241 E. CHESTNUT ST.
CHILTON, WI 53014
(920)849-1434
glaeser.brian@co.calumet.wi.us

NE REGION SURVEY COORDINATOR

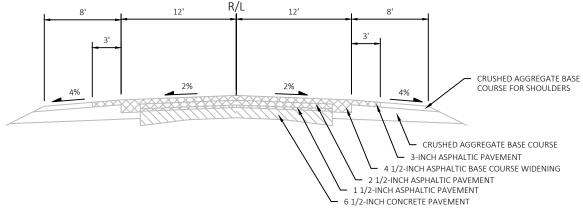
CORMAC MCINNIS, RLS 944 VANDERPERREN WAY GREEN BAY, WI 54304 (920)492-5638 cormac.mcinnis@dot.wi.gov

Dial or (800)242-8511
www.DiggersHotline.com

PROJECT NO: 4580-11-60 HWY: STH 114 COUNTY: CALUMET GENERAL NOTES SHEET **E**

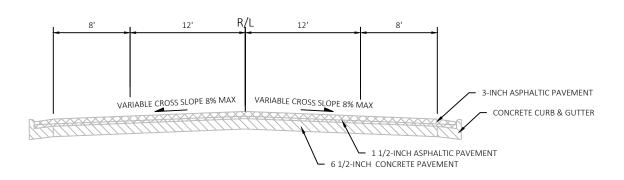






EXISTING TYPICAL SECTION FOR STH 114

STA 6+12 TO STA 73+14 STA 83+52 TO STA 102+38 STA 127+32 TO STA 236+61 STA 236+94 TO STA 328+33

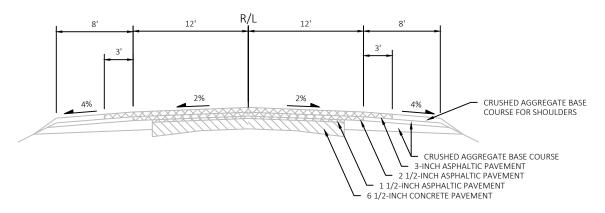


EXISTING TYPICAL SECTION FOR STH 114

STA 73+14 TO STA 83+52

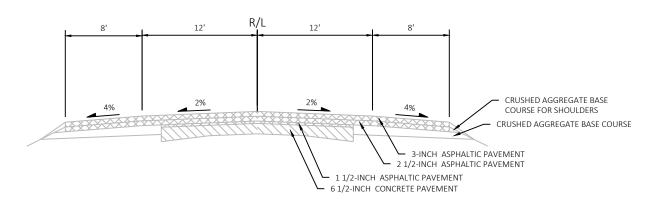
PROJECT NO: 4580-11-60 HWY: STH 114 COUNTY: CALUMET PLAN: TYPICAL SECTIONS SHEET **E**





EXISTING TYPICAL SECTION FOR STH 114

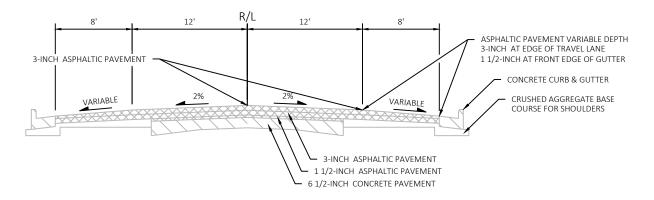
STA 102+38 TO STA 127+32 STA 236+61 TO STA 236+94



EXISTING TYPICAL SECTION FOR STH 114

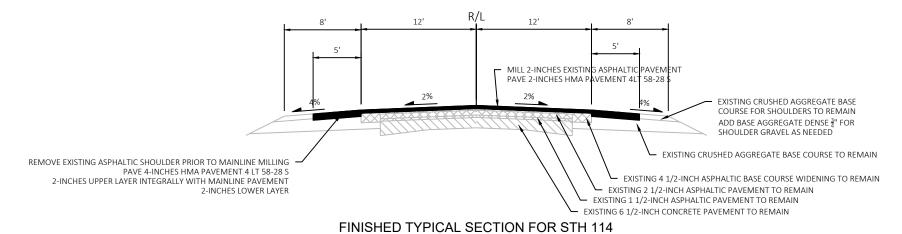
STA 328+33 TO STA 338+83

	PROJECT NO: 4580-11-60	HWY: STH 114	COUNTY: CALUMET	PLAN: TYPICAL SECTIONS	SHEET	E
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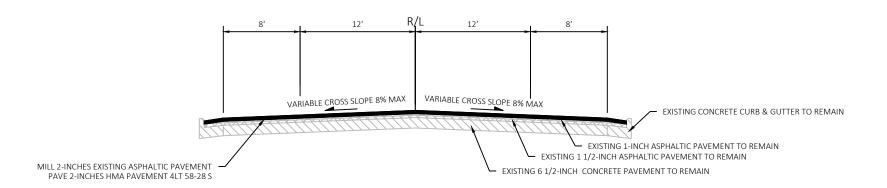
EXISTING TYPICAL SECTION FOR STH 114

STA 338+83 TO STA 342+18



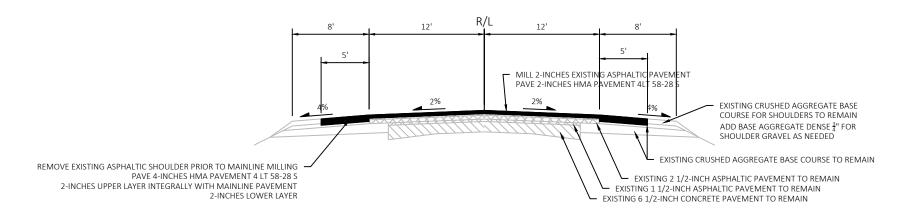
STA 6+12 TO STA 73+14 STA 83+52 TO STA 102+38 STA 127+32 TO STA 236+61 STA 236+94 TO STA 328+33

Ε HWY: STH 114 COUNTY: CALUMET SHEET PROJECT NO: 4580-11-60 PLAN: TYPICAL SECTIONS PLOT BY: MAATTA, TRAVIS SHANE PLOT NAME: FILE NAME : PLOT SCALE : 1 IN:10 FT



FINISHED TYPICAL SECTION FOR STH 114

STA 73+14 TO STA 83+52



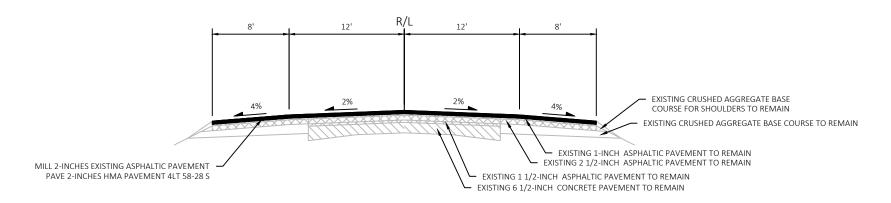
FINISHED TYPICAL SECTION FOR STH 114

STA 102+38 TO STA 127+32 STA 236+61 TO STA 236+94

	PROJECT NO: 4580-11-60	HWY: STH 114	COUNTY: CALUMET	PLAN: TYPICAL SECTIONS	SHEET	Е
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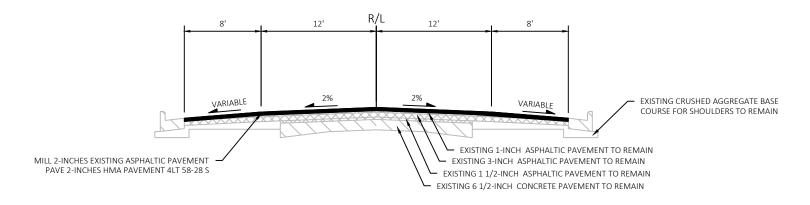
FILE NAME: N:\PDS\C3D\45801130\\$HEETSPLAN\020301-TS.DWG PLOT DATE: 3/1/2018 11:26 AM PLOT BY: MAATTA, TRAVIS SHANE PLOT NAME: PLOT NAME: 1 IN:10 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 020304-ts

2



FINISHED TYPICAL SECTION FOR STH 114

STA 328+33 TO STA 338+83

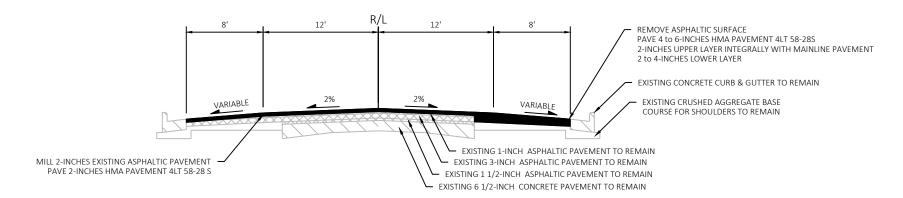


FINISHED TYPICAL SECTION FOR STH 114

STA 338+83 TO STA 339+38

PROJECT NO: 4580-11-60 HWY: STH 114 COUNTY: CALUMET PLAN: TYPICAL SECTIONS SHEET **E**



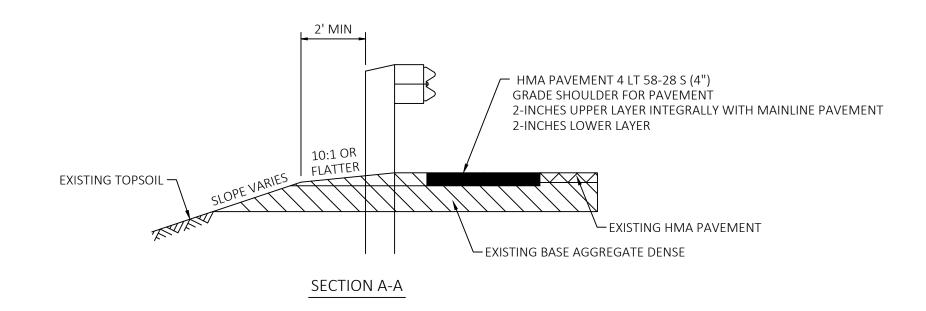


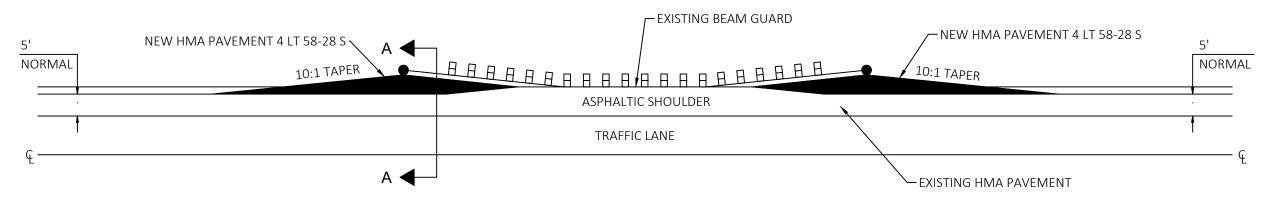
FINISHED TYPICAL SECTION FOR STH 114

STA 339+38 TO STA 342+18

PROJECT NO: 4580-11-30 HWY: 114 COUNTY: CALUMET PLAN: TYPICAL SECTION SHEET **E**

2





DETAIL FOR ASPHALTIC SHOULDER AT BEAM GUARD

PROJECT NO: 4580-11-60 HWY: STH 114 COUNTY: CALUMET PLAN : CONSTRUCTION DETAIL

FILE NAME: N:\PDS\C3D\45801130\SHEETSPLAN\021001-CD.DWG LAYOUT NAME - 01

FILE NAME: N:\PDS\C3D\C3D\45801130\SHEETSP

❸ SEE

TYPICAL CROSS SECTION FOR PAVEMENT TYPE

AND THICKNESS INDIVIDUAL LAYERS



VERTICAL EDGE (SAW CUT OPTIONAL) 2' MAX 1 3/4" MIN DEPTH PAY LIMIT ⊕ HMA PAVEMENT -EXISTING PAVEMENT OR STRUCTURE EXISTING ASPHALTIC PAVEMENT FEATHERED JOINT REQ'D —

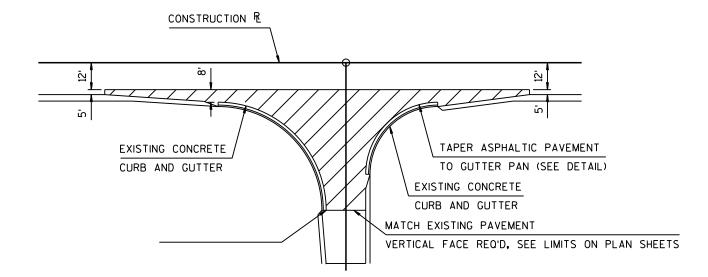
REMOVING ASPHALTIC SURFACE, MILLING

REMOVE ASPHALTIC SURFACE WEDGE AT BUTT JOINT TO CREATE VERTICAL EDGE

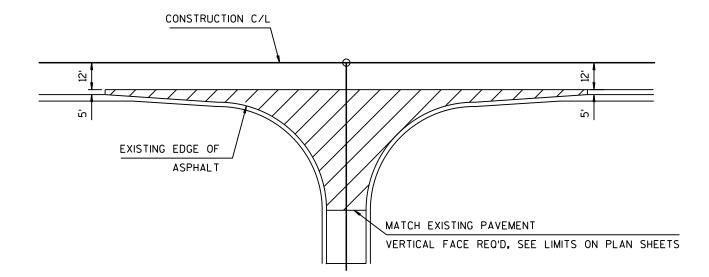
BUTT JOINT DETAIL FOR ASPHALTIC PAVEMENTS (NO PROFILE CHANGE)

LONGITUDINAL LANE JOINT — — TEMPORARY PAVEMENT MARKING 4-INCH PASS #1 PASS #2

PAVEMENT MARKING DETAIL FOR TAPERED OVERLAPPING JOINTS IN HMA PAVEMENTS



SIDE ROAD CONSTRUCTION LIMITS EXISTING CURB AND GUTTER RETURNS



SIDE ROAD CONSTRUCTION LIMITS EXISTING AGGREGATE SHOULDER RETURNS

PLOT SCALE :

1 IN:10 FT

WISDOT/CADDS SHEET 42

HWY: STH 114 COUNTY: CALUMET PROJECT NO: 4580-11-60 PLAN: CONSTRUCTION DETAIL SHEET Ε

PLOT DATE : N:\PDS\C3D\45801130\SHEETSPLAN\021001-CD.DWG LAYOUT NAME - 02 MAATTA, TRAVIS SHANE PLOT NAME : 3/1/2018 11:30 AM

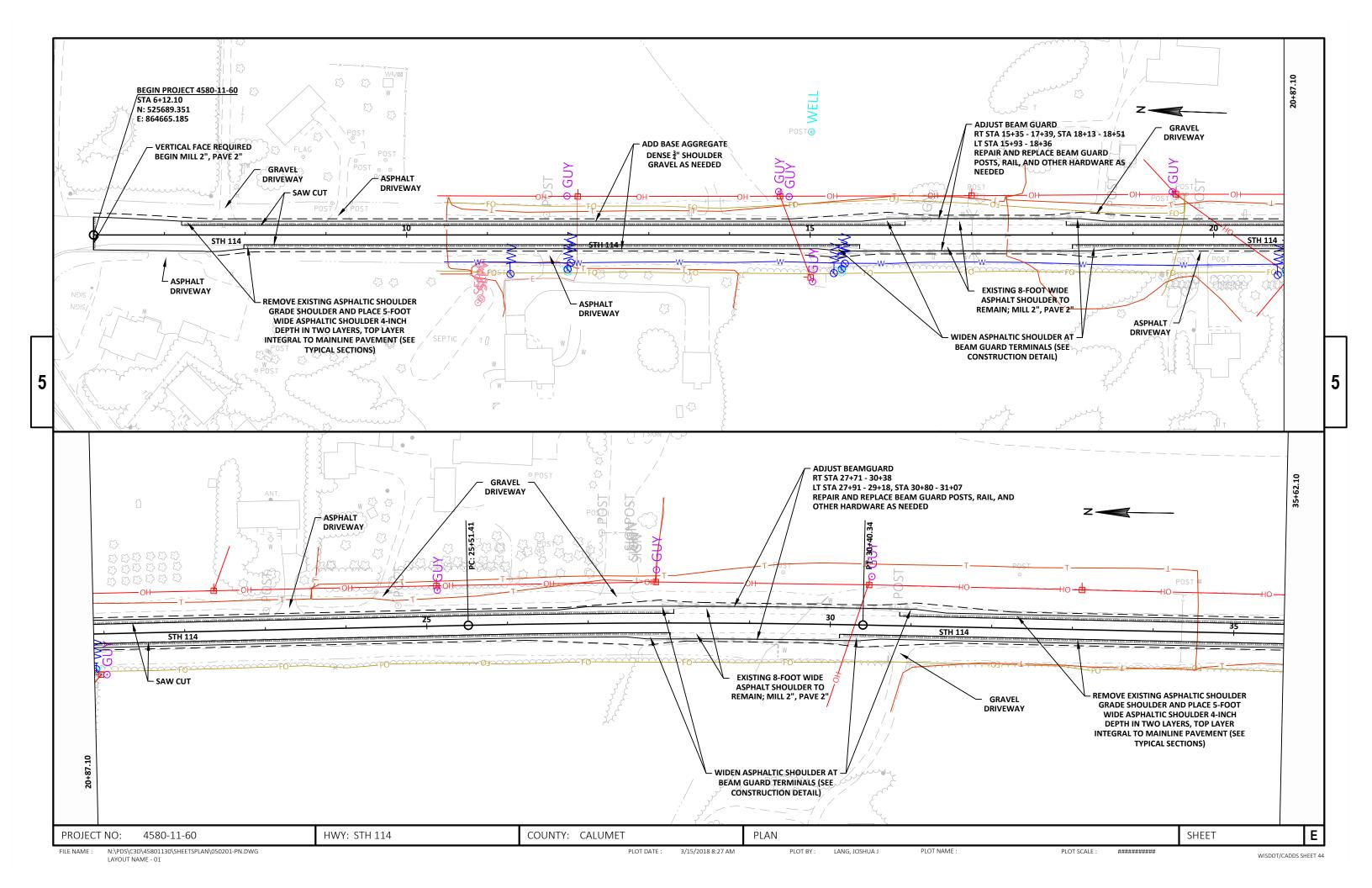
WISDOT/CADDS SHEET 42

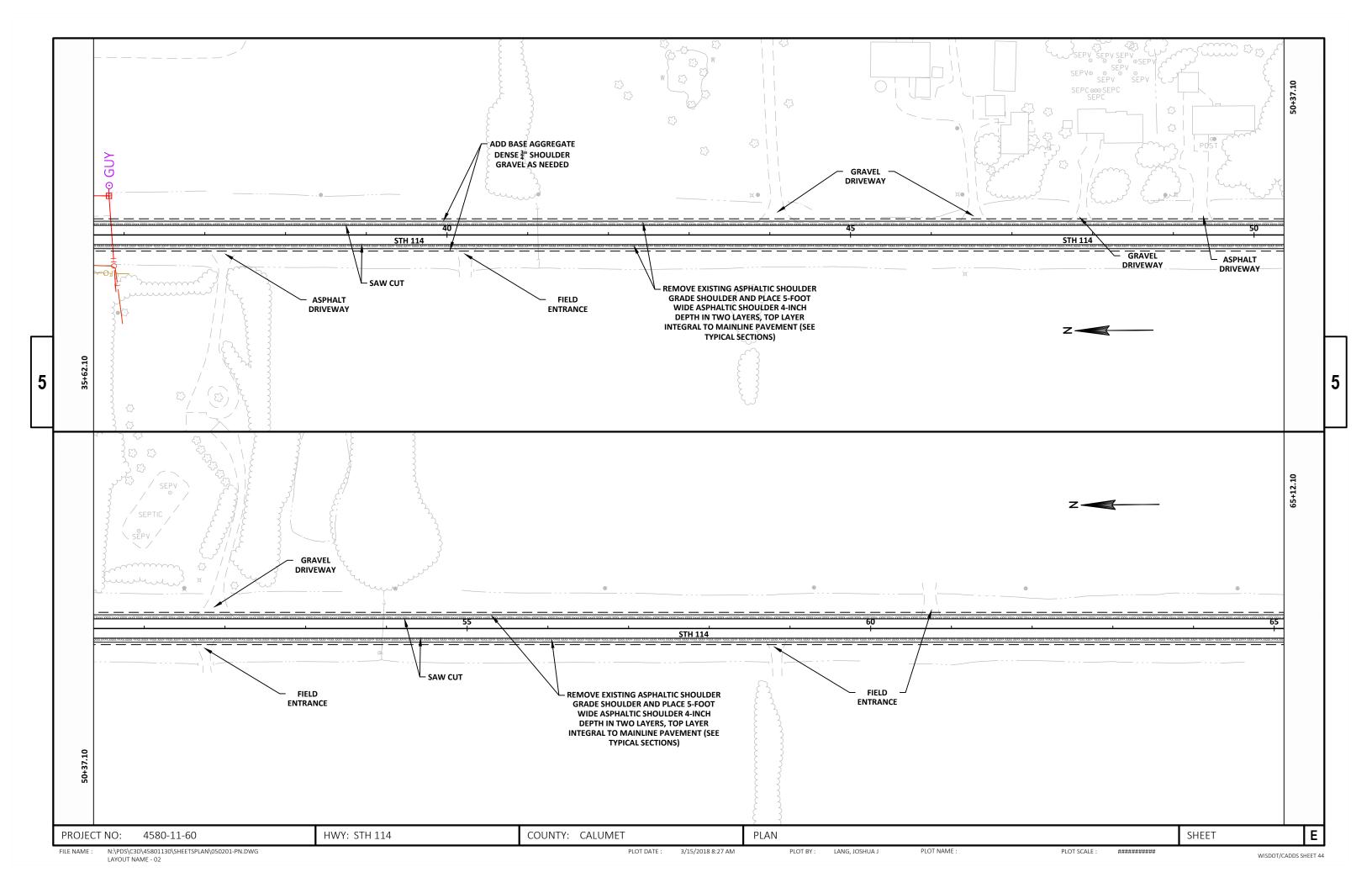
EDGE OF PAVED SHOULDER LIMITS AS DIRECTED BY ENGINEER — PAID UNDER ITEM - "ASPHALTIC SURFACE, DRIVEWAYS" WHICH SHALL INCLUDE ANY REMOVAL OR SHAPING NECESSARY TO COMPLETE THIS AREA.

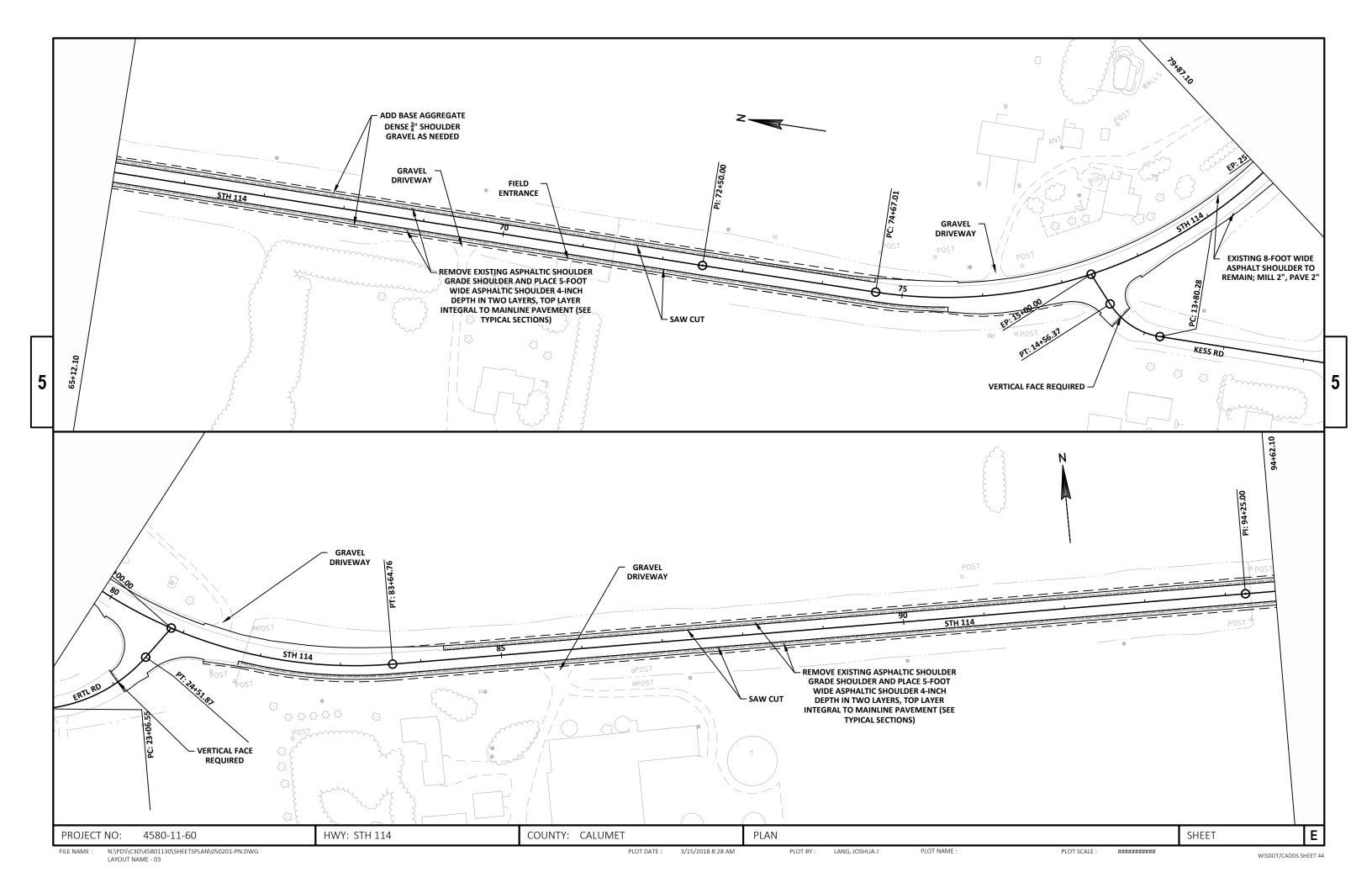
> ANY ADDITIONAL BASE AGG. DENSE REQ'D. SHALL BE PAID UNDER ITEM - "BASE AGGREGATE DENSE 1 14/-INCH"

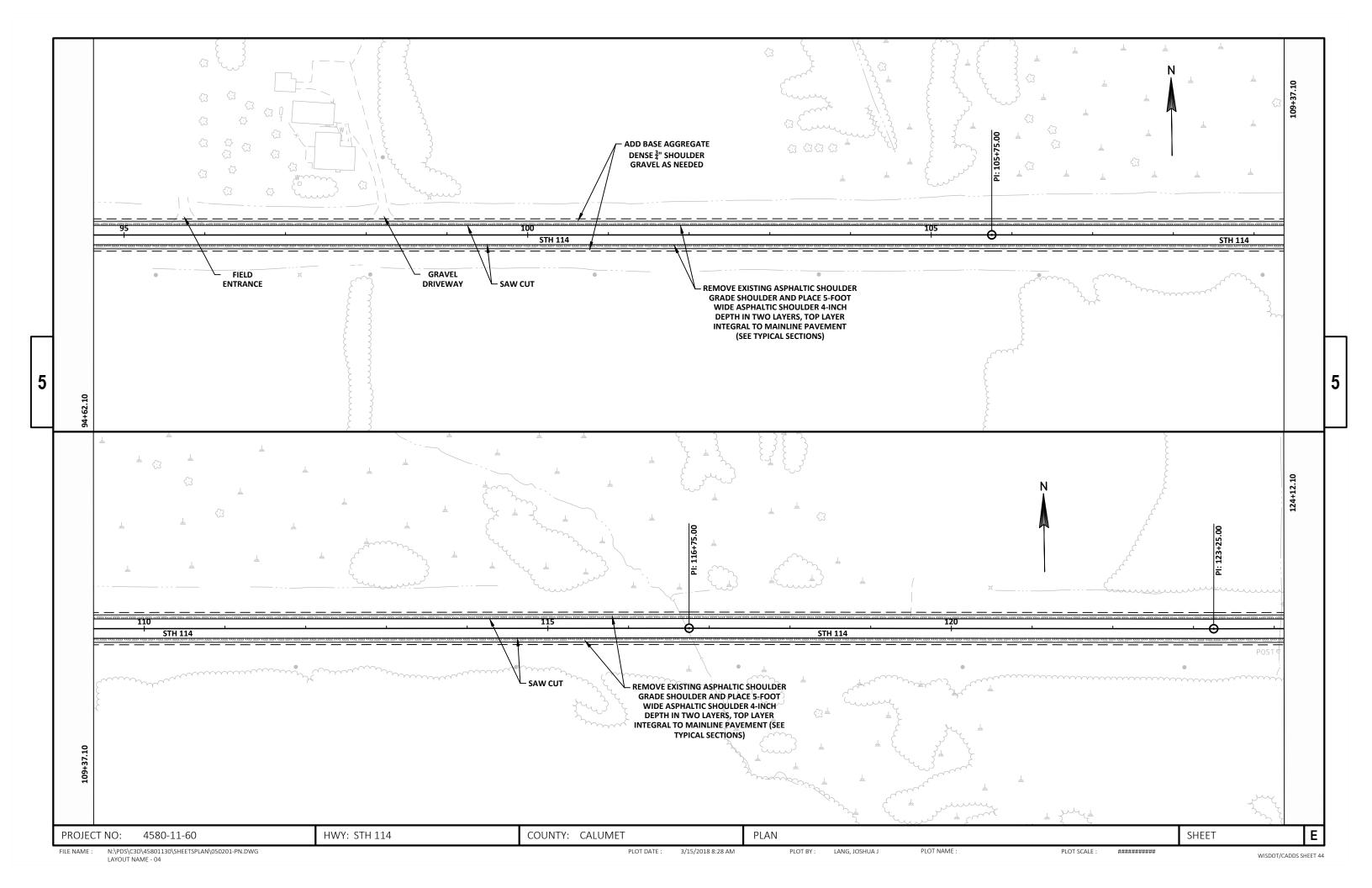
RURAL DRIVEWAY DETAIL - ASPHALT

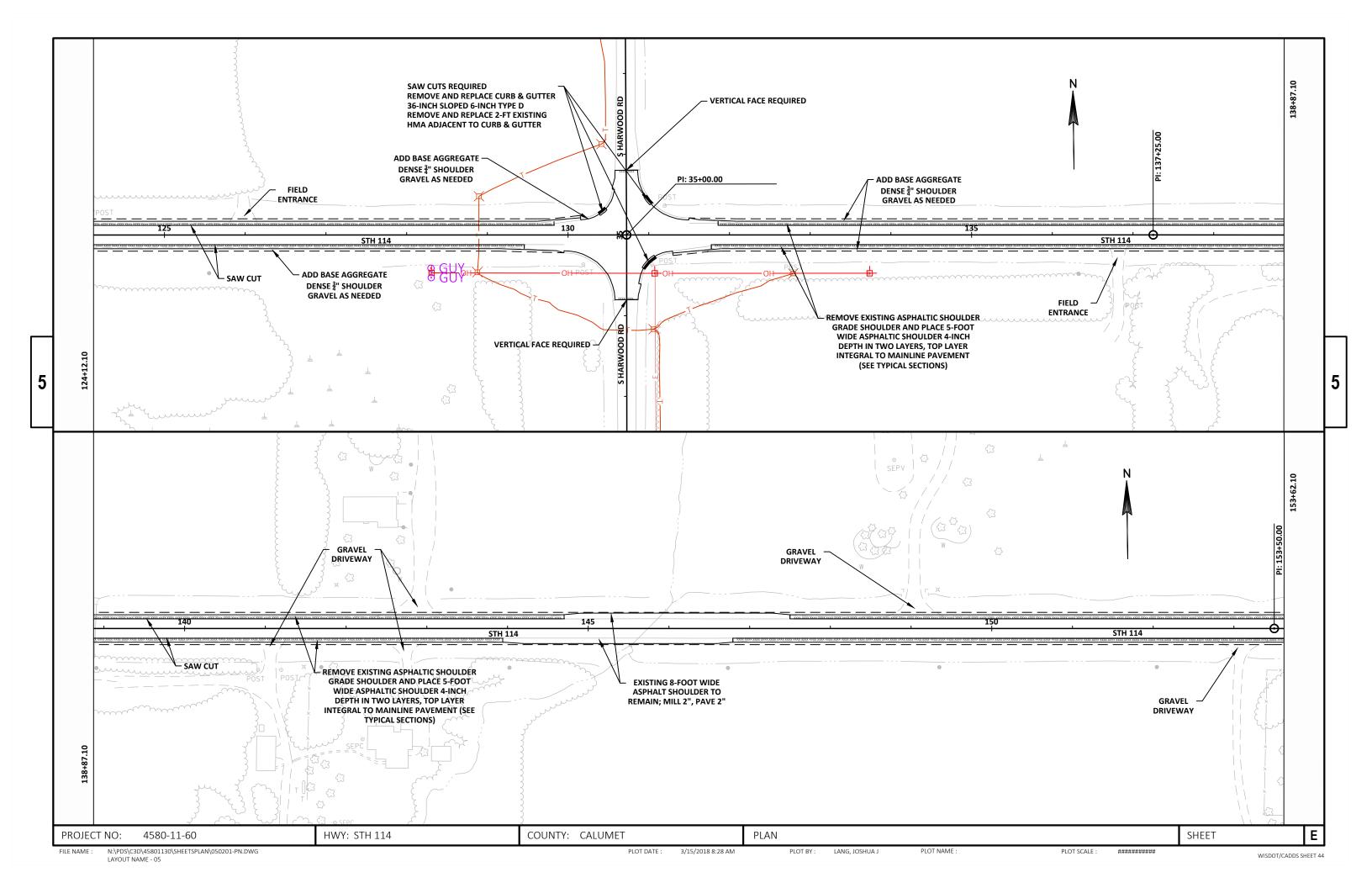
Ε PROJECT NO: 4580-11-60 HWY: STH 114 COUNTY: CALUMET SHEET PLAN: CONSTRUCTION DETAIL FILE NAME : N:\PDS\C3D\45801130\SHEETSPLAN\021001-CD.DWG LAYOUT NAME - 03 PLOT DATE : 3/1/2018 11:30 AM PLOT BY: MAATTA, TRAVIS SHANE PLOT NAME: PLOT SCALE: 1 IN:10 FT

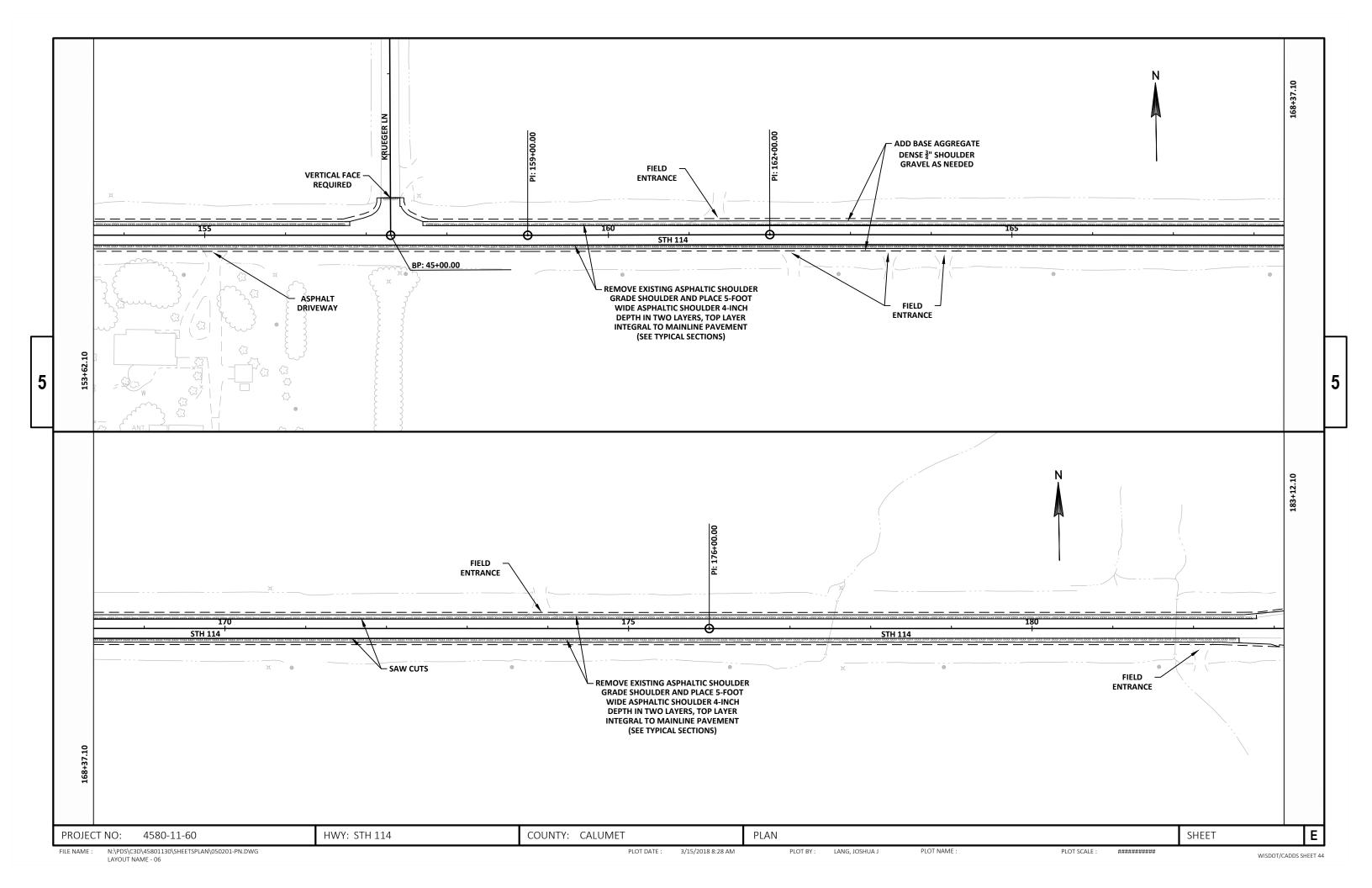


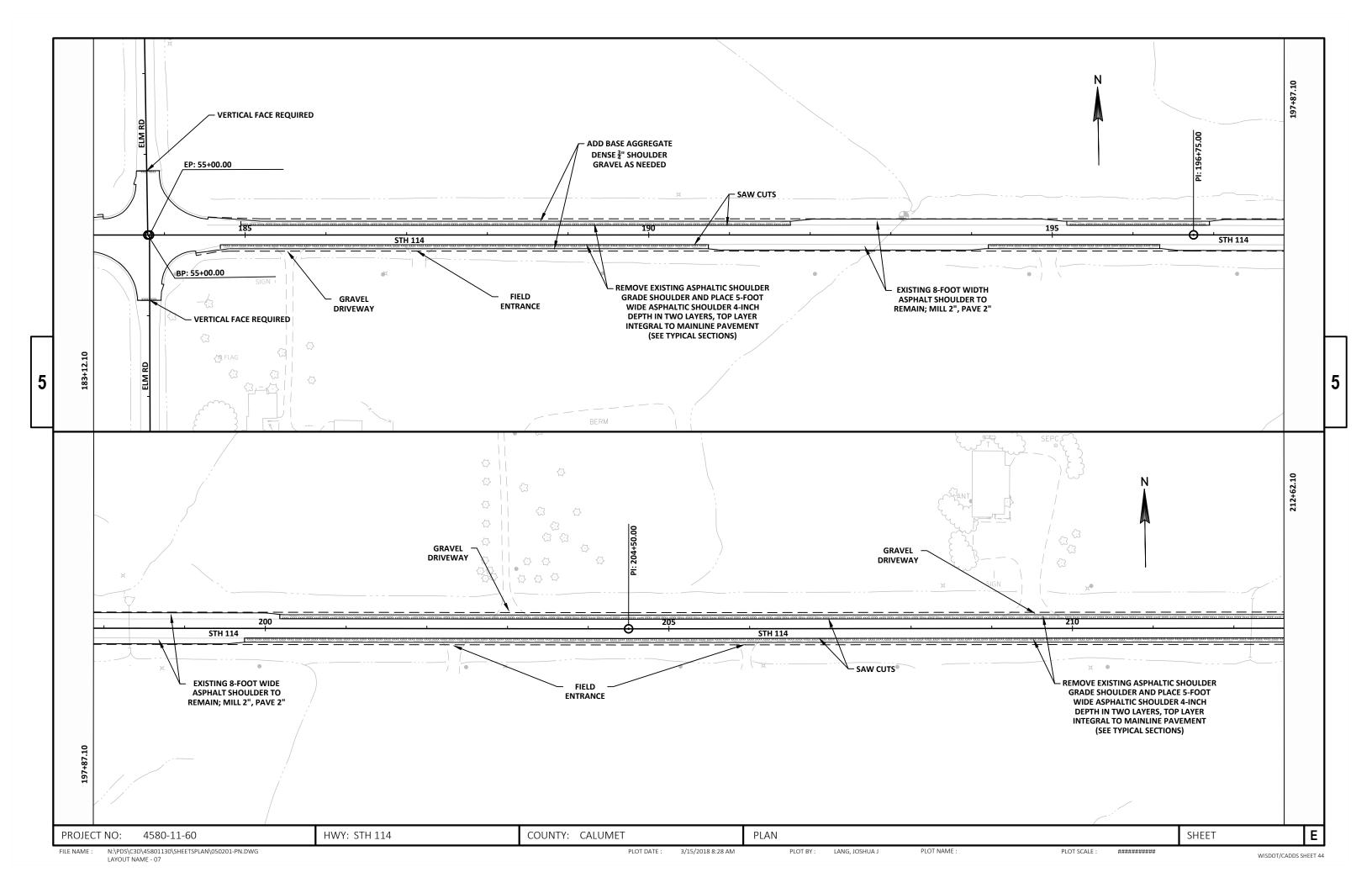


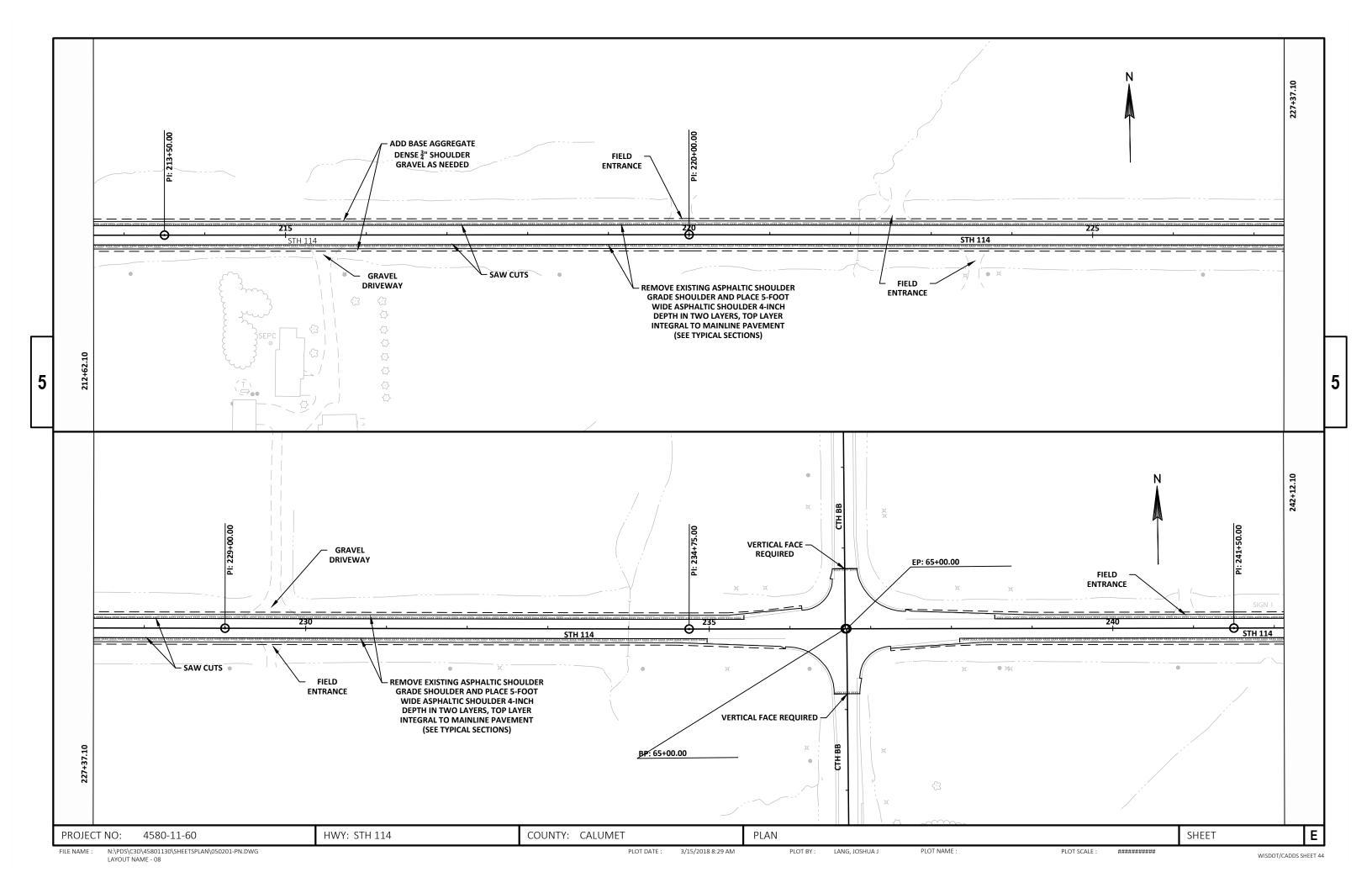


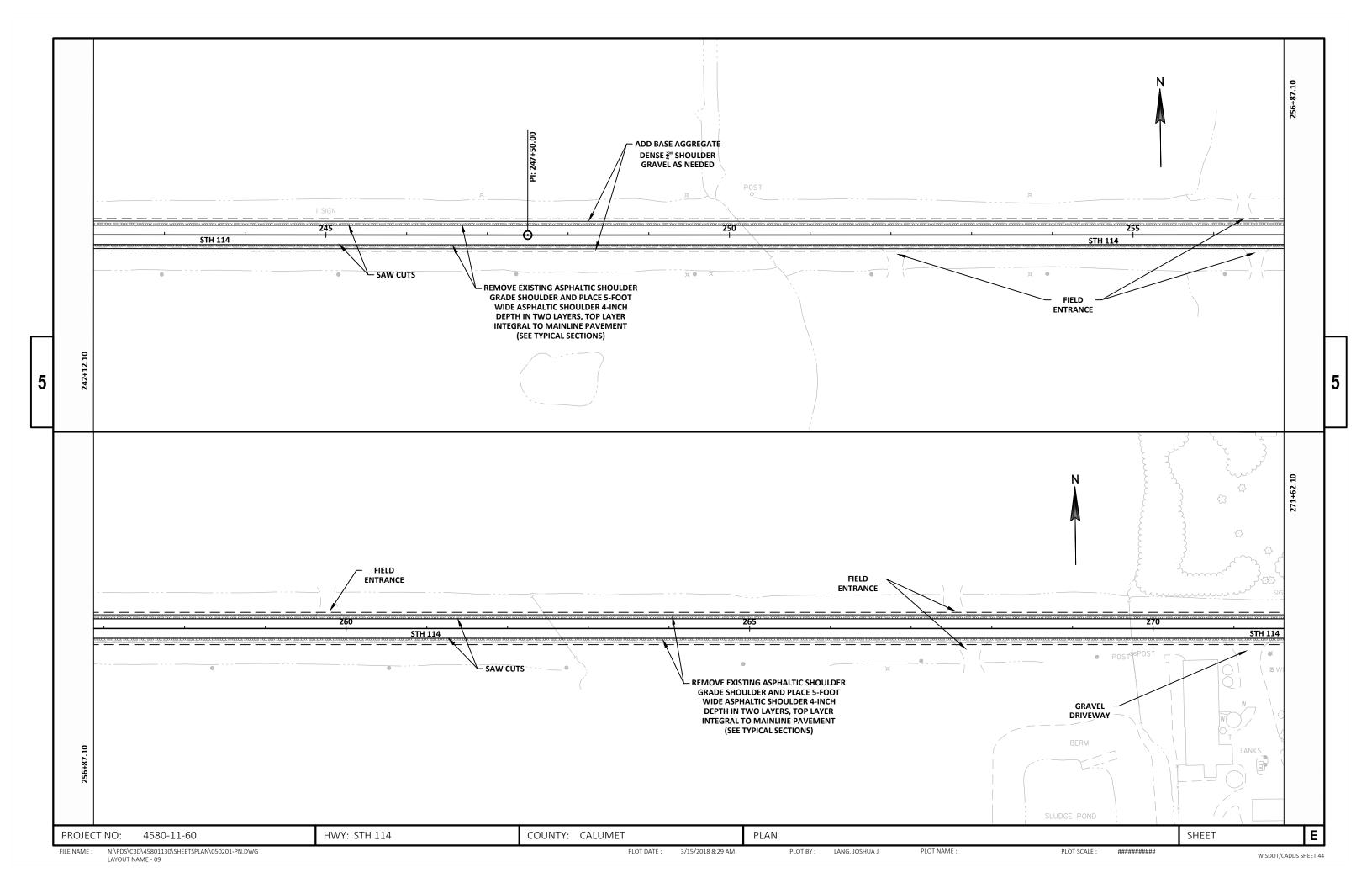


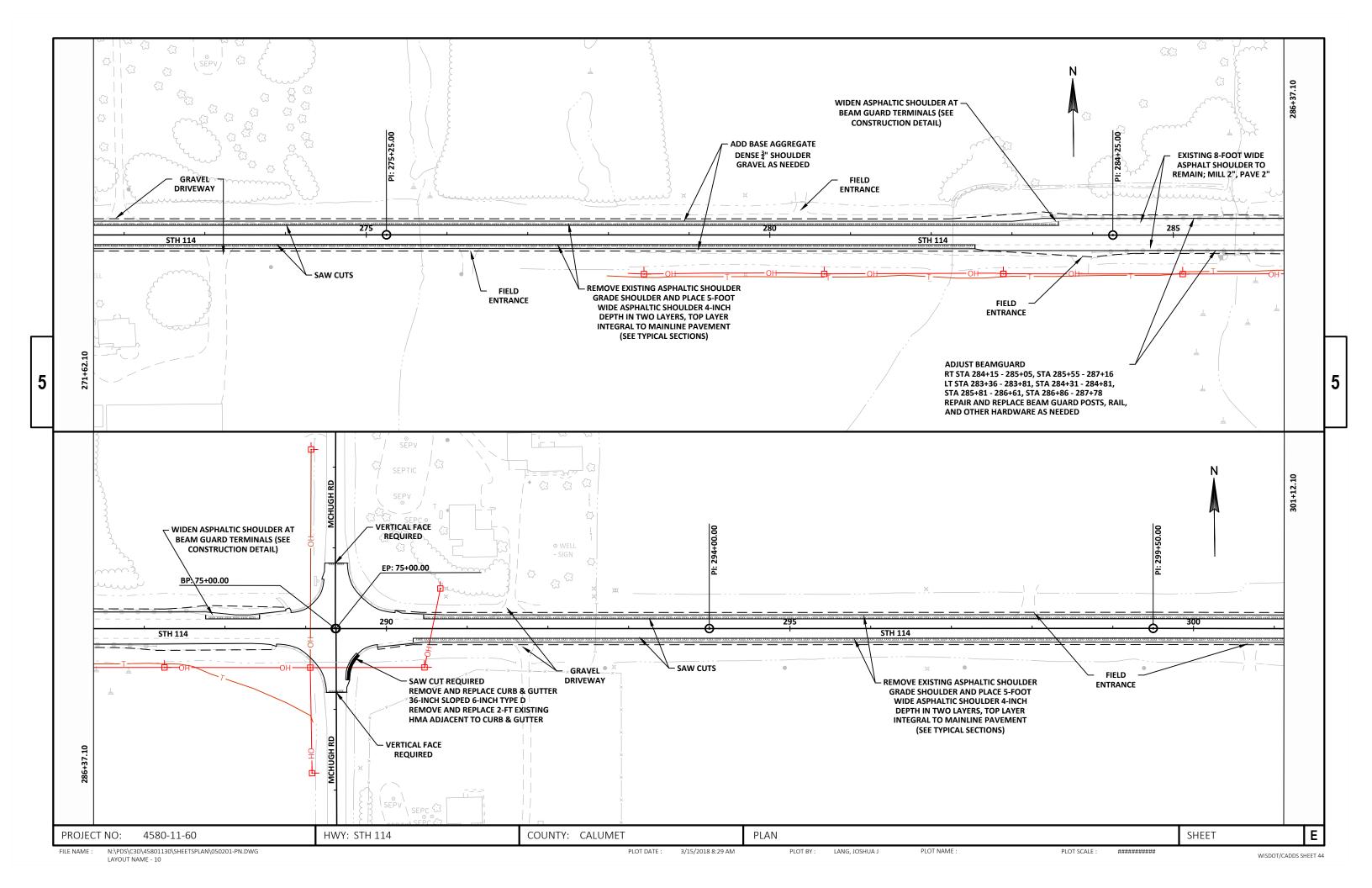


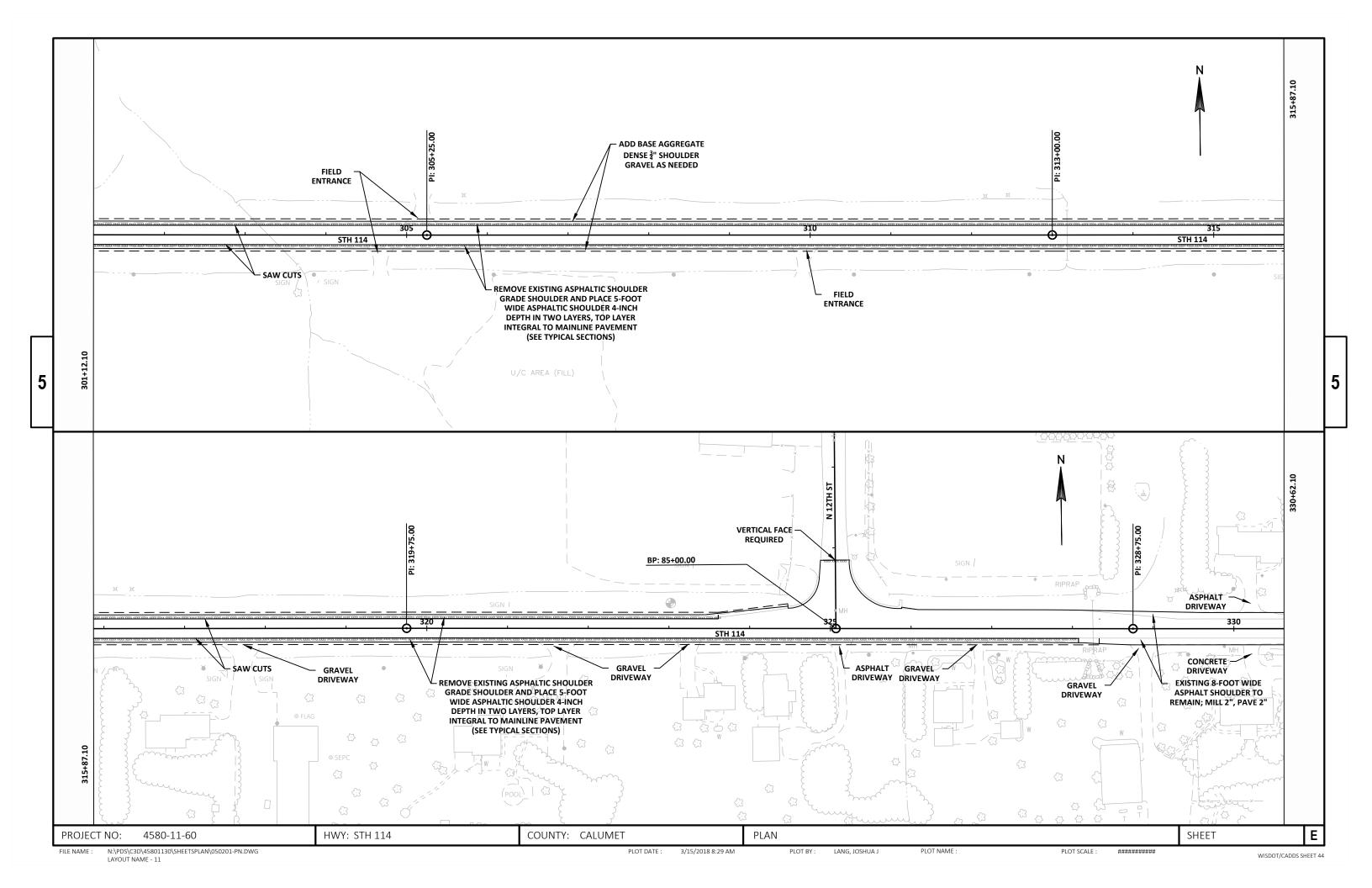


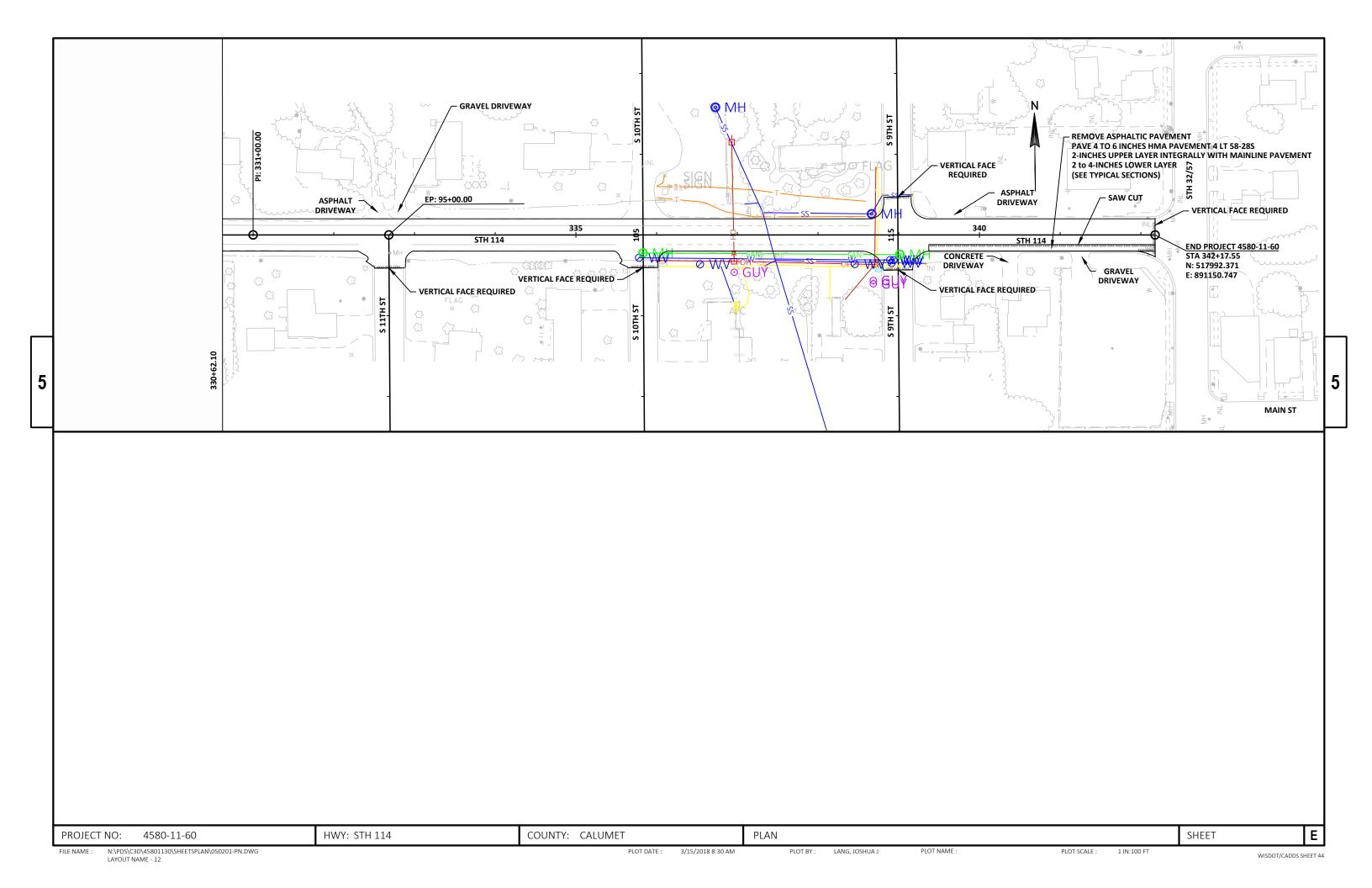


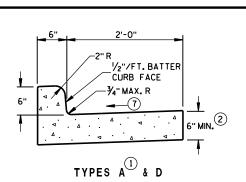


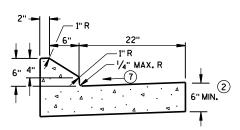




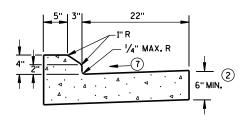




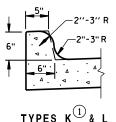




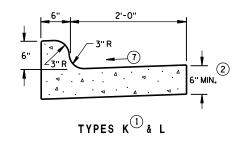
6" SLOPED CURB TYPES G 4 J



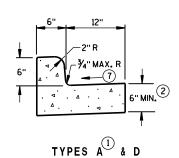
4" SLOPED CURB TYPES G & J



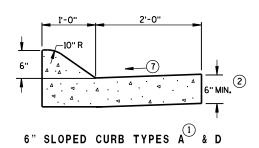
TYPES K & L
(OPTIONAL CURB SHAPE)

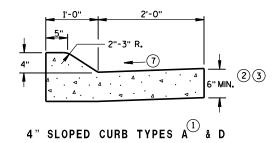


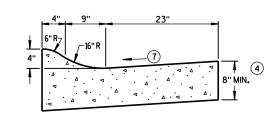
CONCRETE CURB & GUTTER 30"



CONCRETE CURB & GUTTER 18"

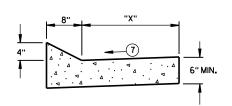






4" SLOPED CURB TYPES R T & T S

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT $^{ ext{\scriptsize (1)}}$

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS 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 & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

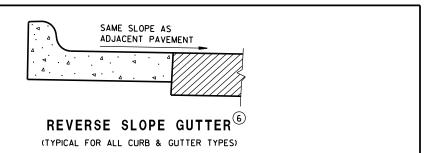
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-O" BEHIND THE BACK OF CURBS.

- (1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
- (2) 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 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.
- (4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.
- (6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- (7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.
- (8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'

PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



CONCRETE CURB & GUTTER

20a

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

^{*} BIKE LANE IS NOT SHOWN.

GRATE ELEVATION -AS SHOWN ON STORM SEWER DETAILS

CURB AND GUTTER,

DEPRESS BELOW NORMAL FLOWLINE TO MATCH GRATE ELEVATION

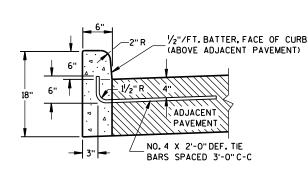
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS 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.

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

- (1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.
- 2 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.
- (9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



ADJACENT PAVEMENT NO. 4 X 2'-0" DEF. TIE BARS SPACED 3'-0" C-C

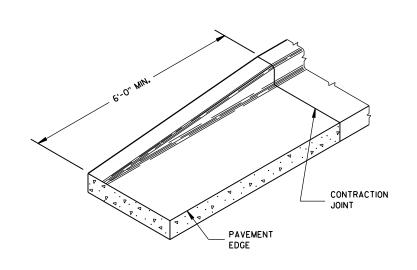
TYPES A D

TYPES G 4 J

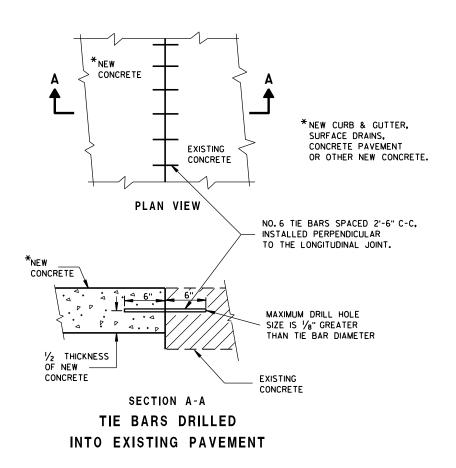
DETAIL OF CURB AND GUTTER AT INLETS

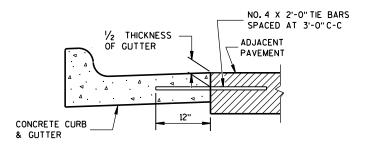
(TYPE H INLET COVER SHOWN)

CONCRETE CURB

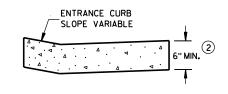


END SECTION CURB & GUTTER





TYPICAL TIE BAR LOCATION $^{ ext{(1)}}$



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS STATE OF WISCONSIN

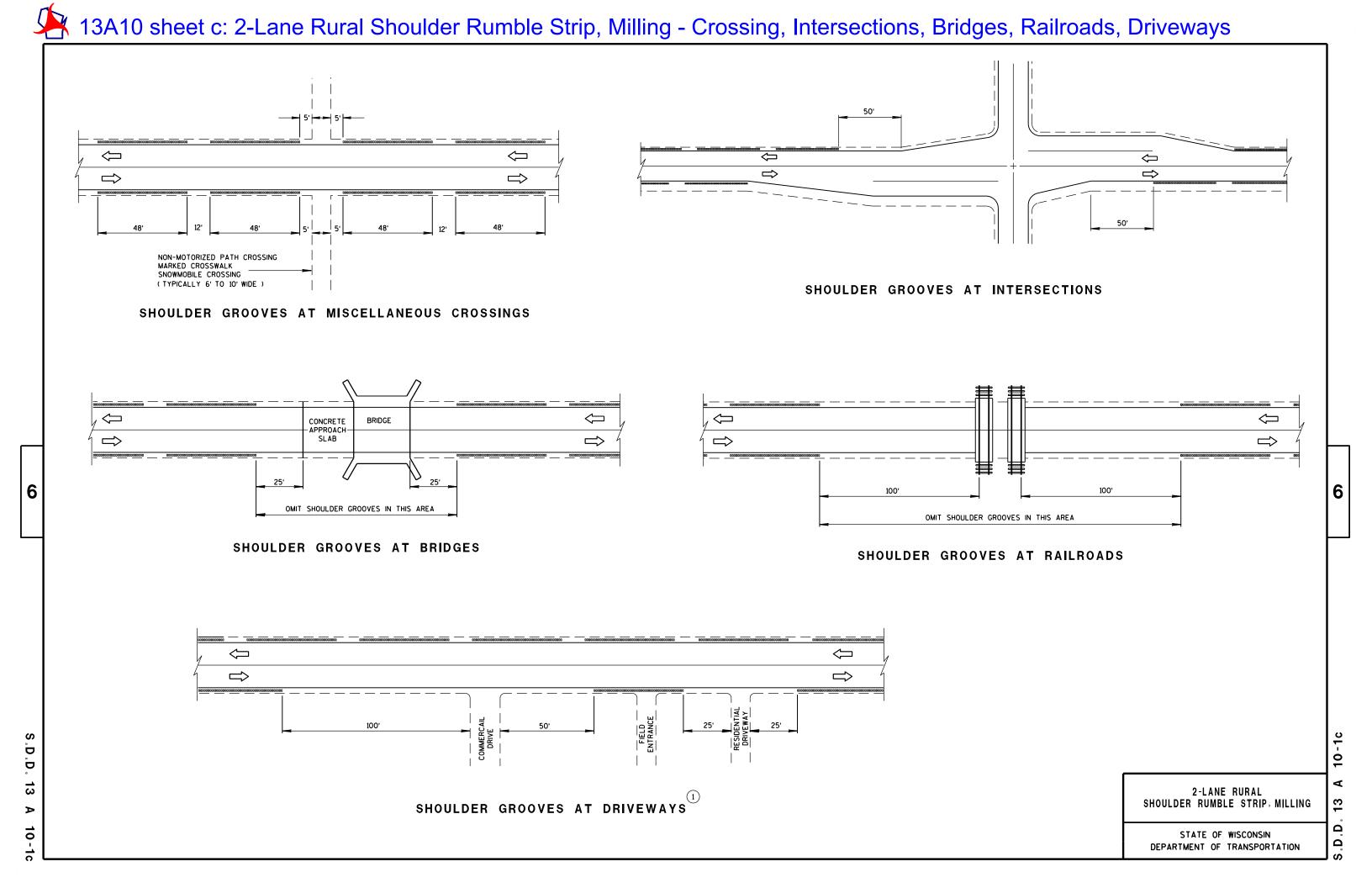
DEPARTMENT OF TRANSPORTATION

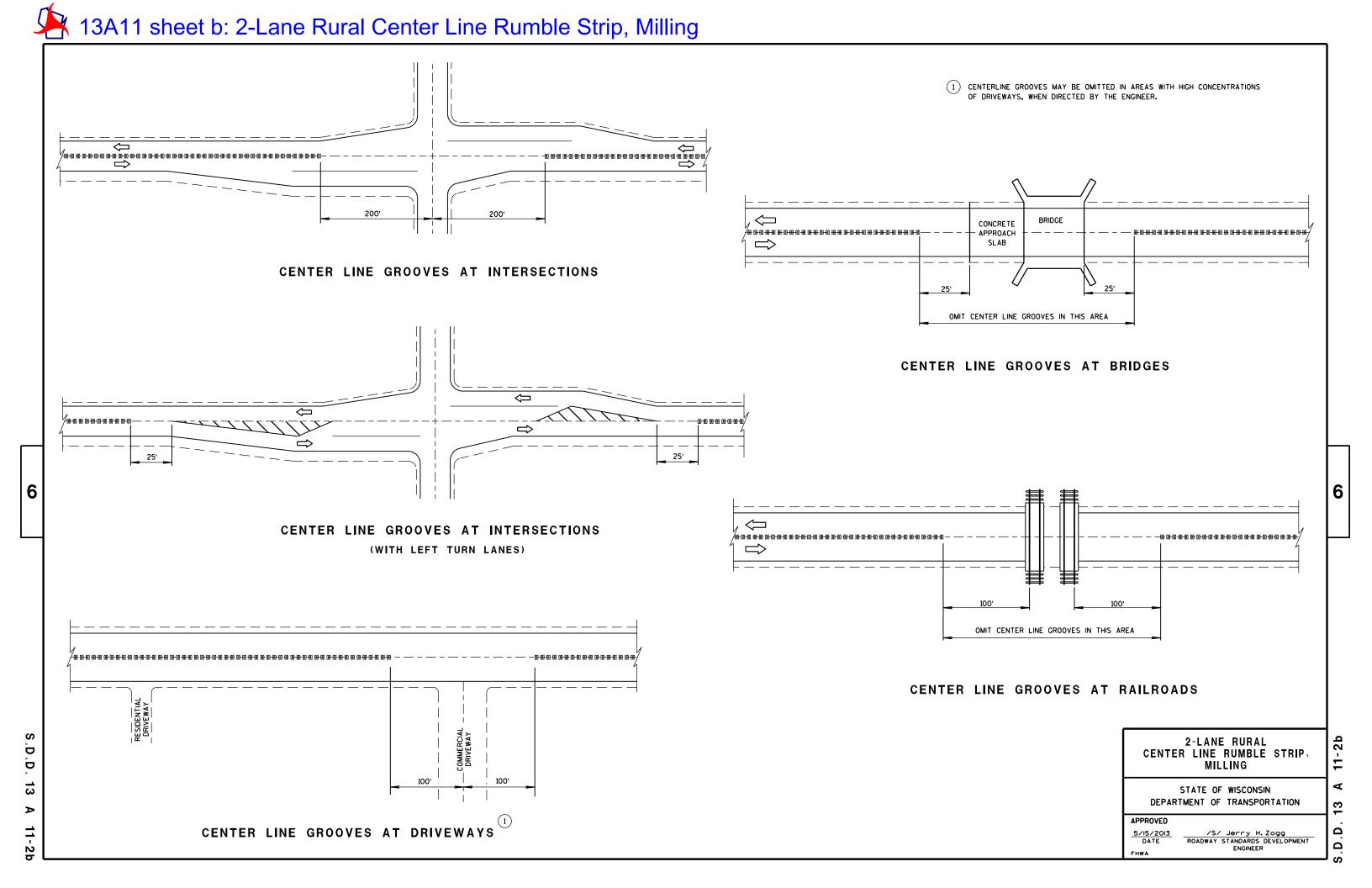
/S/ Rodney Taylor June, 2017 ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR DATE

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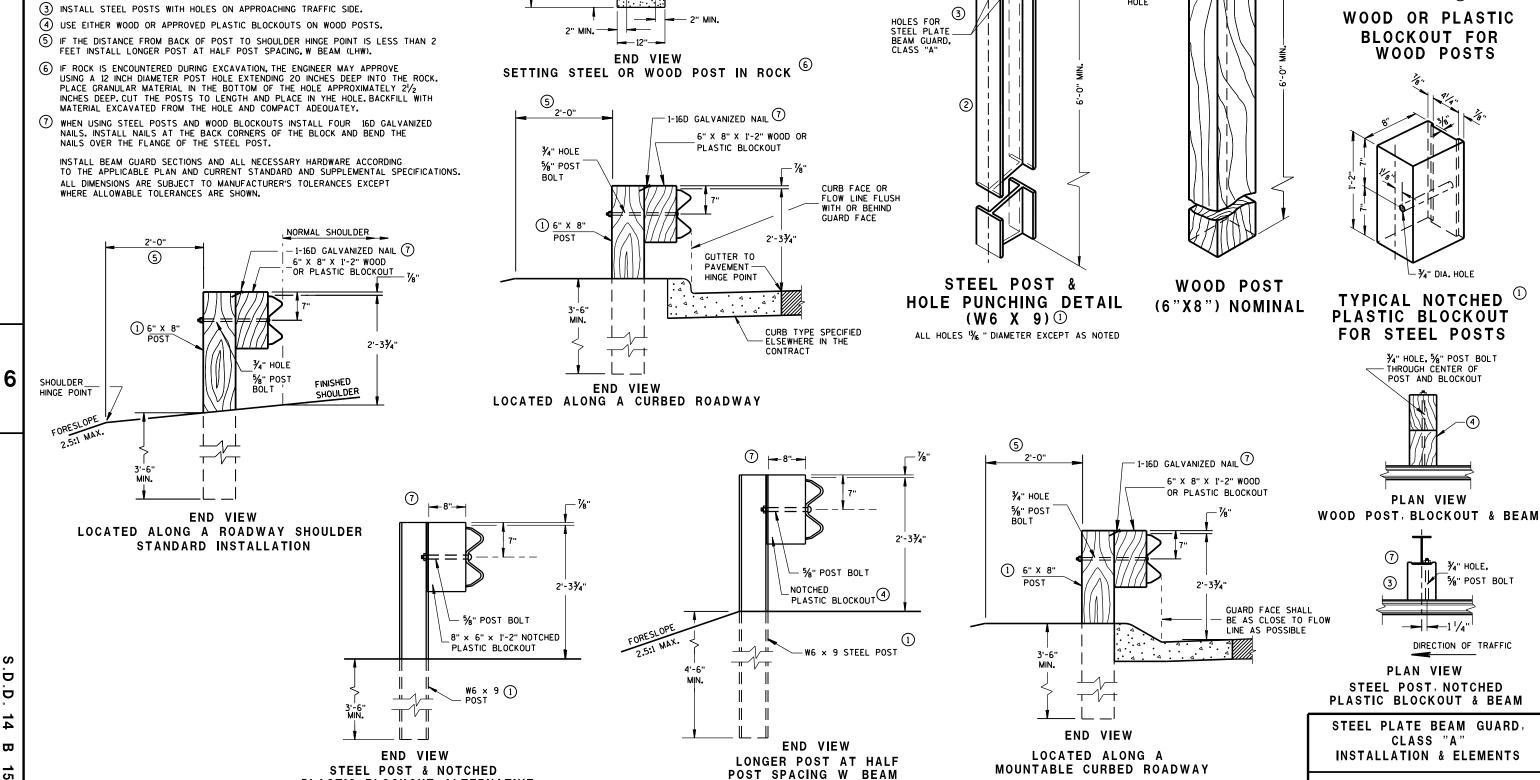




14B15 sheet a: Steel Plate Beam Guard, Class "A", Installation and Elements OPTIONAL 13/6 " DIA. HOLE FOR HANDLING DURING GALVANIZING. **GENERAL NOTES** (ONE PERMITTED) (1) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. FOUNDATION BACKFILL APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS. DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION. $44\frac{1}{2}$ " MIN. 20" MINIMUM EMBEDMENT IN WHERE "A" 2) USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS SOLID ROCK IF SHORTENED 15 > 22"ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE POST IS USED WHERE "A" TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED IS ≤ 22" 3/4" DIA. -SPELTER COATING ON GALVANIZED POSTS. (3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE. 3 HOLES FOR (4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS. 5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 BEAM GUARD, FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW). **END VIEW** (6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE SETTING STEEL OR WOOD POST IN ROCK USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 21/2 INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN THE HOLE. BACKFILL WITH 2 MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY. · 1-16D GALVANIZED NAIL ① WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE 6" X 8" X 1'-2" WOOD OR NAILS OVER THE FLANGE OF THE STEEL POST. PLASTIC BLOCKOUT ¾" HOLE INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS. %" POST ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN. FLOW LINE FLUSH WITH OR BEHIND GUARD FACE ① 6" X 8" NORMAL SHOULDER POST 2'-33/4" 2'-0" 1-16D GALVANIZED NAIL (7) (5) GUTTER TO 6" X 8" X 1'-2" WOOD PAVEMENT -OR PLASTIC BLOCKOUT HINGE POINT STEEL POST & WOOD POST

PLASTIC BLOCKOUT ALTERNATIVE

STANDARD INSTALLATION



TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

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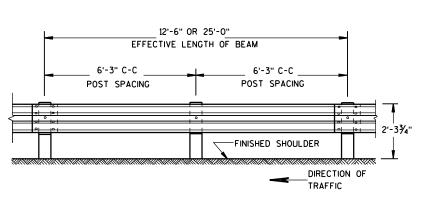
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STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

14B15 sheet b: Steel Plate Beam Guard, Class "A", Installation and Elements



FRONT VIEW

SECTION THRU W BEAM

SYMMETRICAL

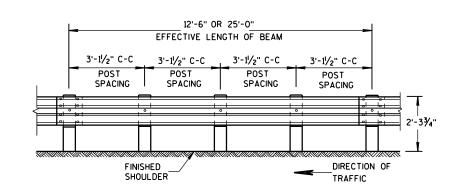
ABOUT & ∕-12 GAGE

WOOD OR PLASTIC BLOCKOUT FINISHED SHOULDER DIRECTION OF TRAFFIC FRONT VIEW **BEAM SPLICE AT WOOD POST**

GENERAL NOTES

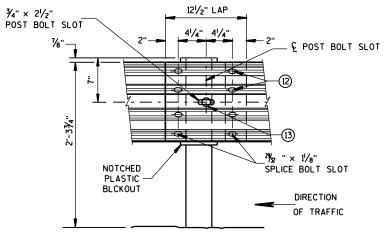
- OD NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
- (12) 8 5%" \$ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- (13) %" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH %" DIA. F844 FLAT WASHER

POST SPACING STANDARD INSTALLATION



FRONT VIEW

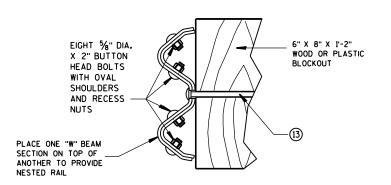
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



AND POST MOUNTING DETAIL

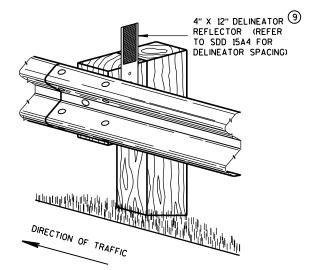
FRONT VIEW BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

STEEL PLATE BEAM GUARD, CLASS "A", **INSTALLATION & ELEMENTS**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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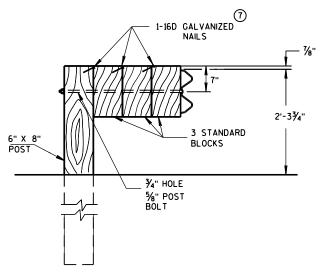
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15-10b

DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

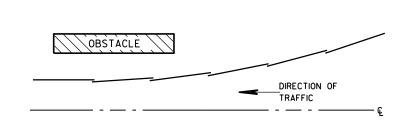


DETAIL FOR TRIPLE BLOCKS

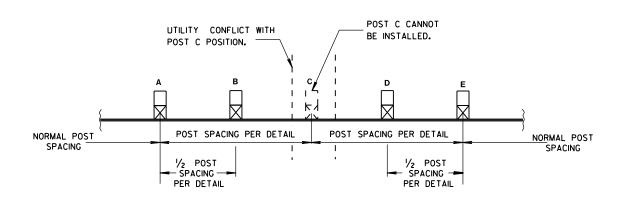
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA 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.



PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Rodney Taylor June 2017 ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

D D 15-10c

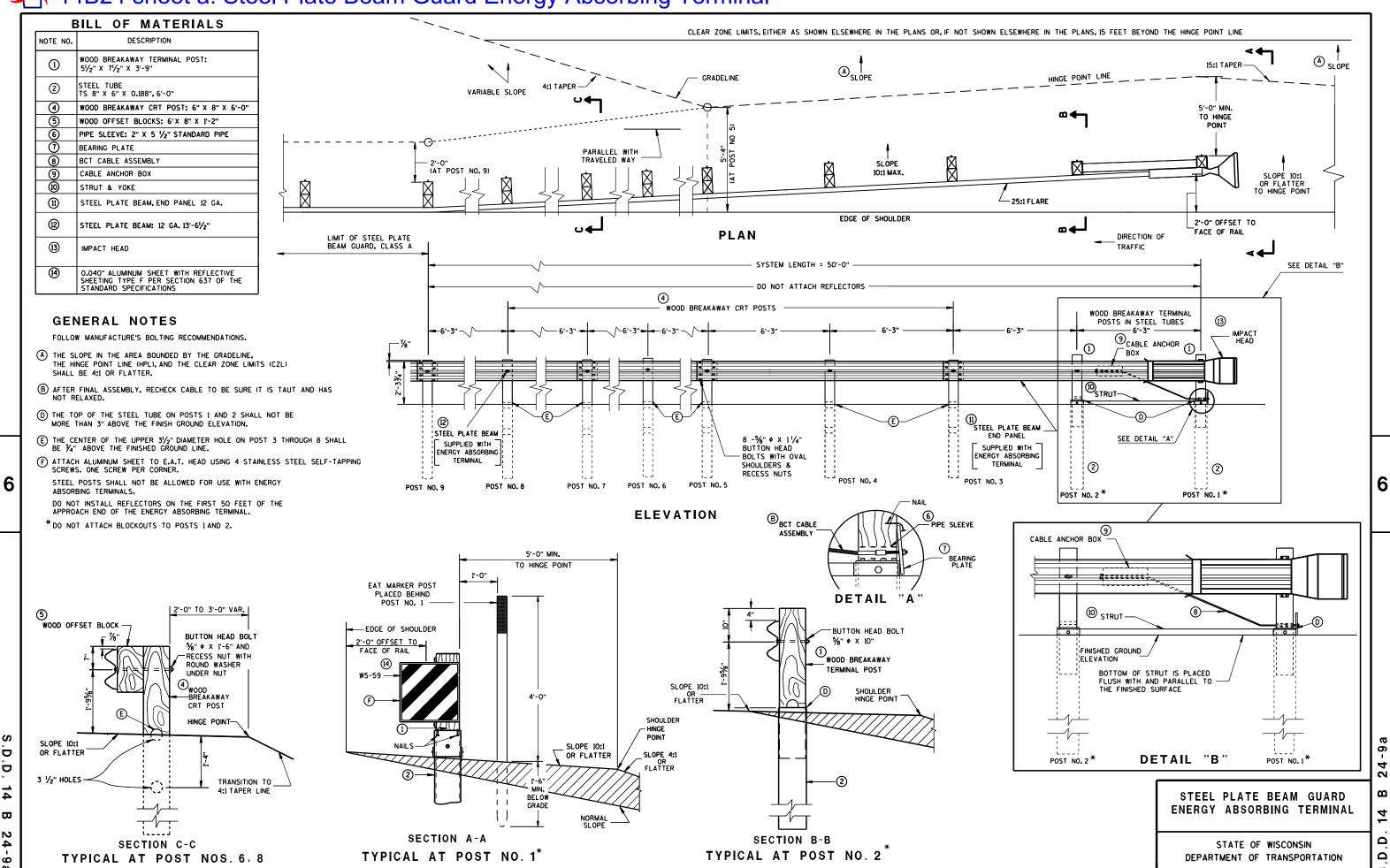


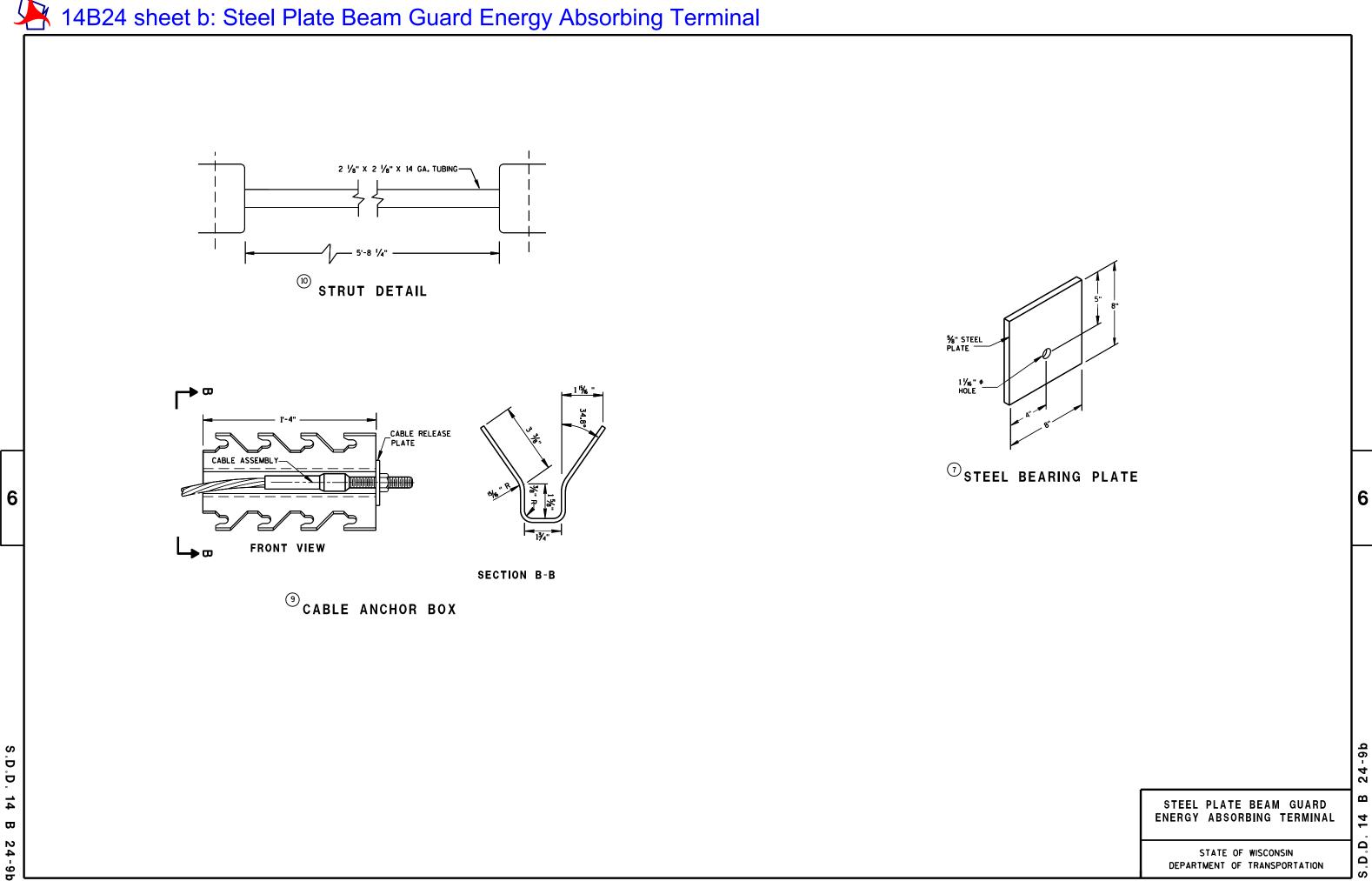
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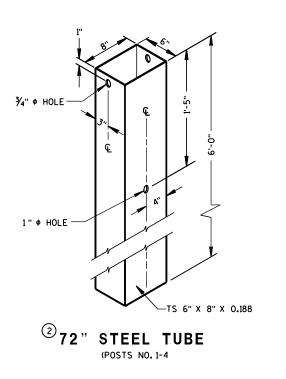
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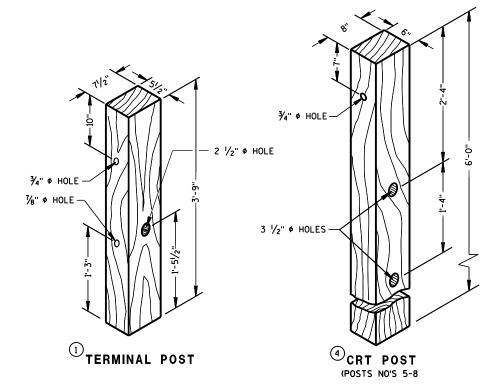
14B24 sheet a: Steel Plate Beam Guard Energy Absorbing Terminal



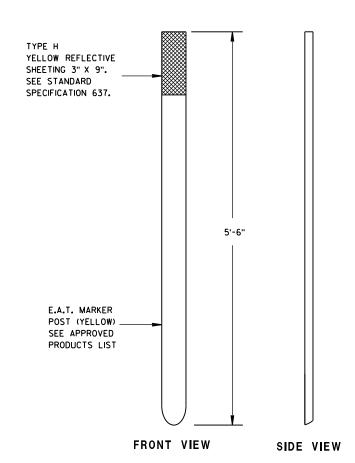




(4) REFLECTIVE SHEETING DETAILS



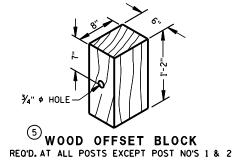
WOOD BREAKAWAY POSTS



E.A.T. MARKER POST

GENERAL NOTES

WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 1/2" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.



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STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

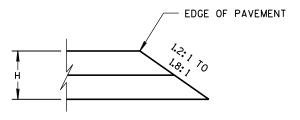
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED June 2017

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

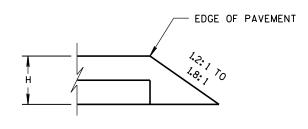
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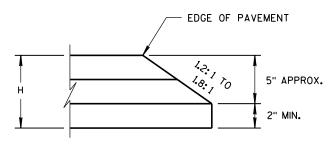
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER

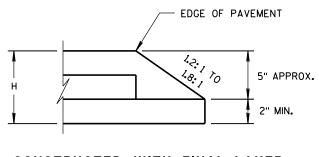
FOR H 5" OR LESS



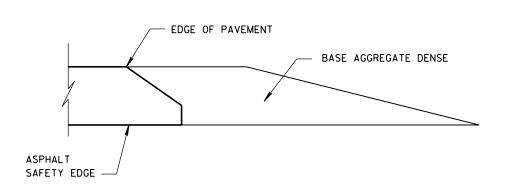
CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FOR H GREATER THAN 5"



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

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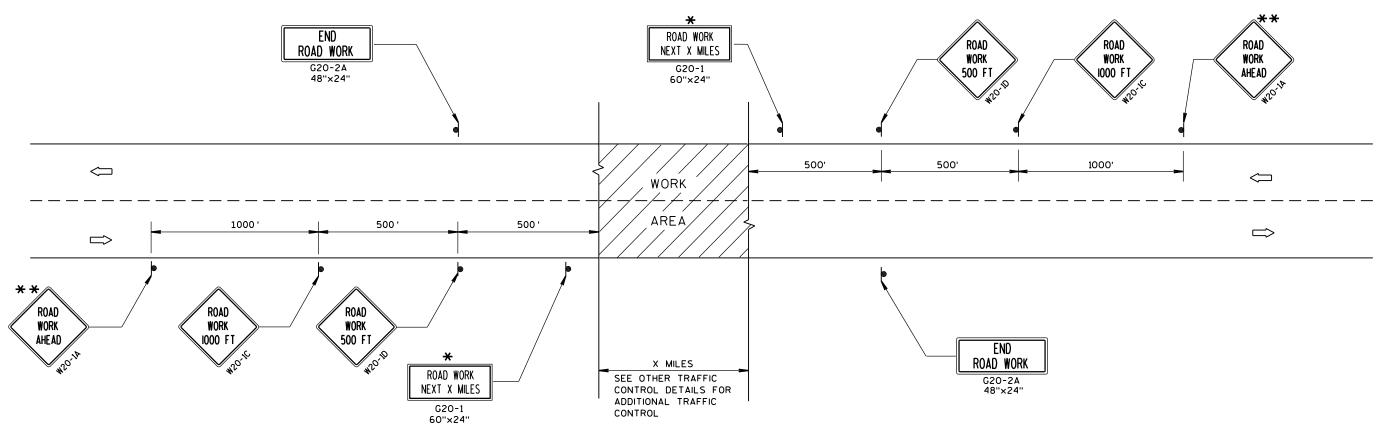
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DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

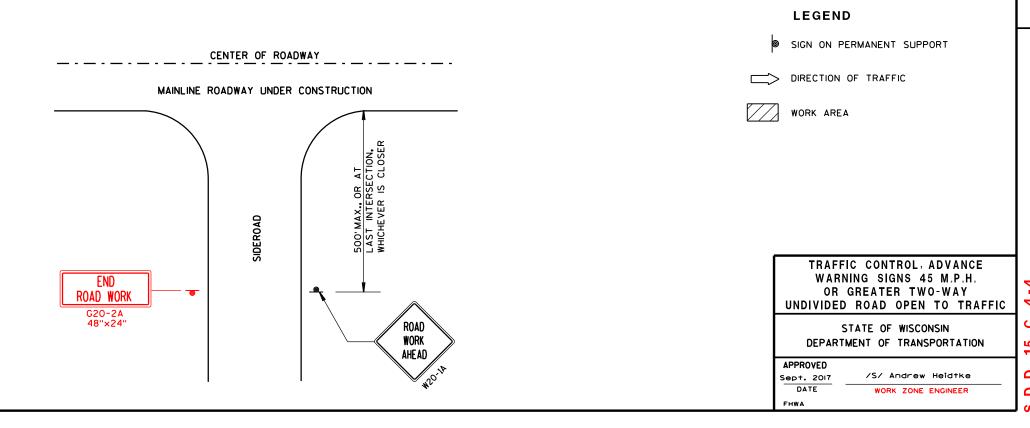
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

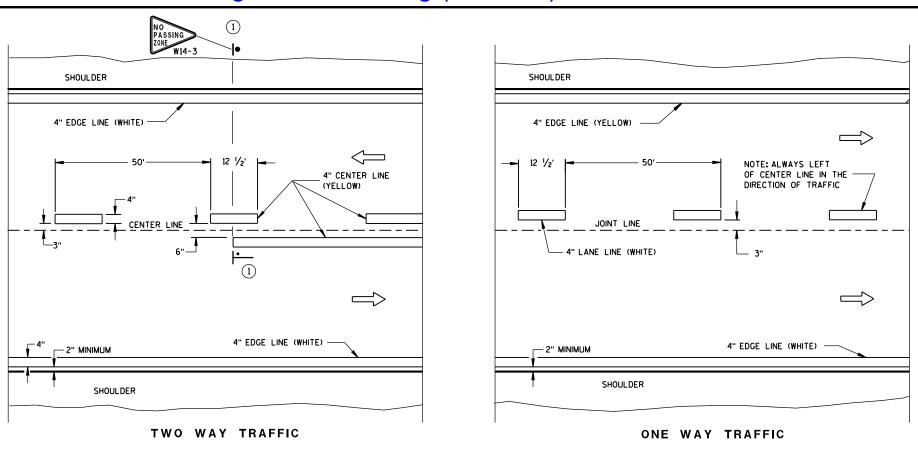
- ** PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



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S.D.D. 15 C 4

15C8 sheet a: Longitudinal Marking (Mainline)



GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

NOTE

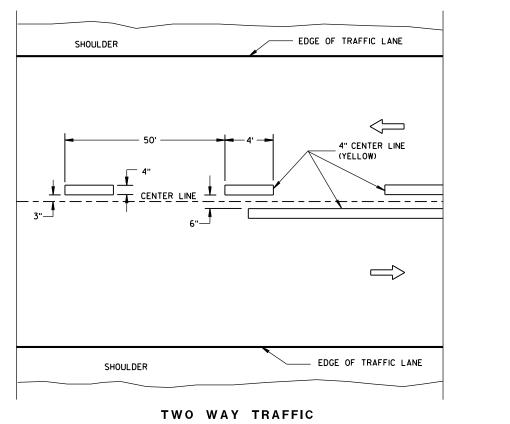
ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

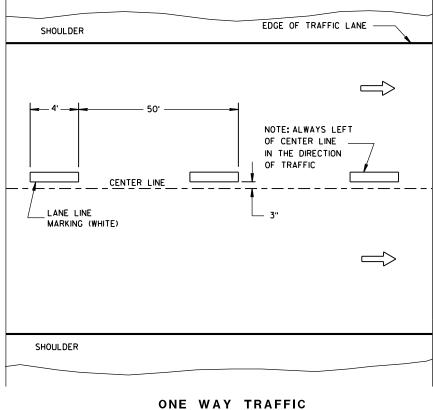
LEGEND

"T" MARKING

POST MOUNTED SIGN

PERMANENT PAVEMENT MARKING





LONGITUDINAL MARKING (MAINLINE)

8-18a

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017 /S/ Matthew R. Rauch DATE STATE SIGNING AND MARKING ENGINEER Ω

TEMPORARY PAVEMENT MARKING

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D D 15 C

15C12: Traffic Control for Lane Closure with Flagging Operation

LEGEND SIGN ON PORTABLE OR PERMANENT SUPPORT DIRECTION OF TRAFFIC WORK AREA FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING A
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED. THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING A.

STRIPS

	W20-7A W3	20-4A W21-65 *	W20-1A (2)
)' TO 300' (TYPICAL) A A		
48" X 24" (2)	1)		
END XX		A	6
G20-5V ARR A	3		
3 3 3		∭ - -	
\/2A-	ARRAY	ARRAY .	48" X 24" (2)
	*	- *	END ROAD WORK G20-2A
A A 200' TO 300' (TYPICAL)	├ - VARI	ABLE DISTANCE	

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STOP/SLOW PADDLE ON SUPPORT STAFF

GENERAL NOTES

WORK

AHEAD

/w20-1A

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

RUMBLE

STRIPS

AHEAD

ROAD

AHEAD

W20-4A

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

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

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT. REMOVE TEMPORARY RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

- 1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

Ö 15 C

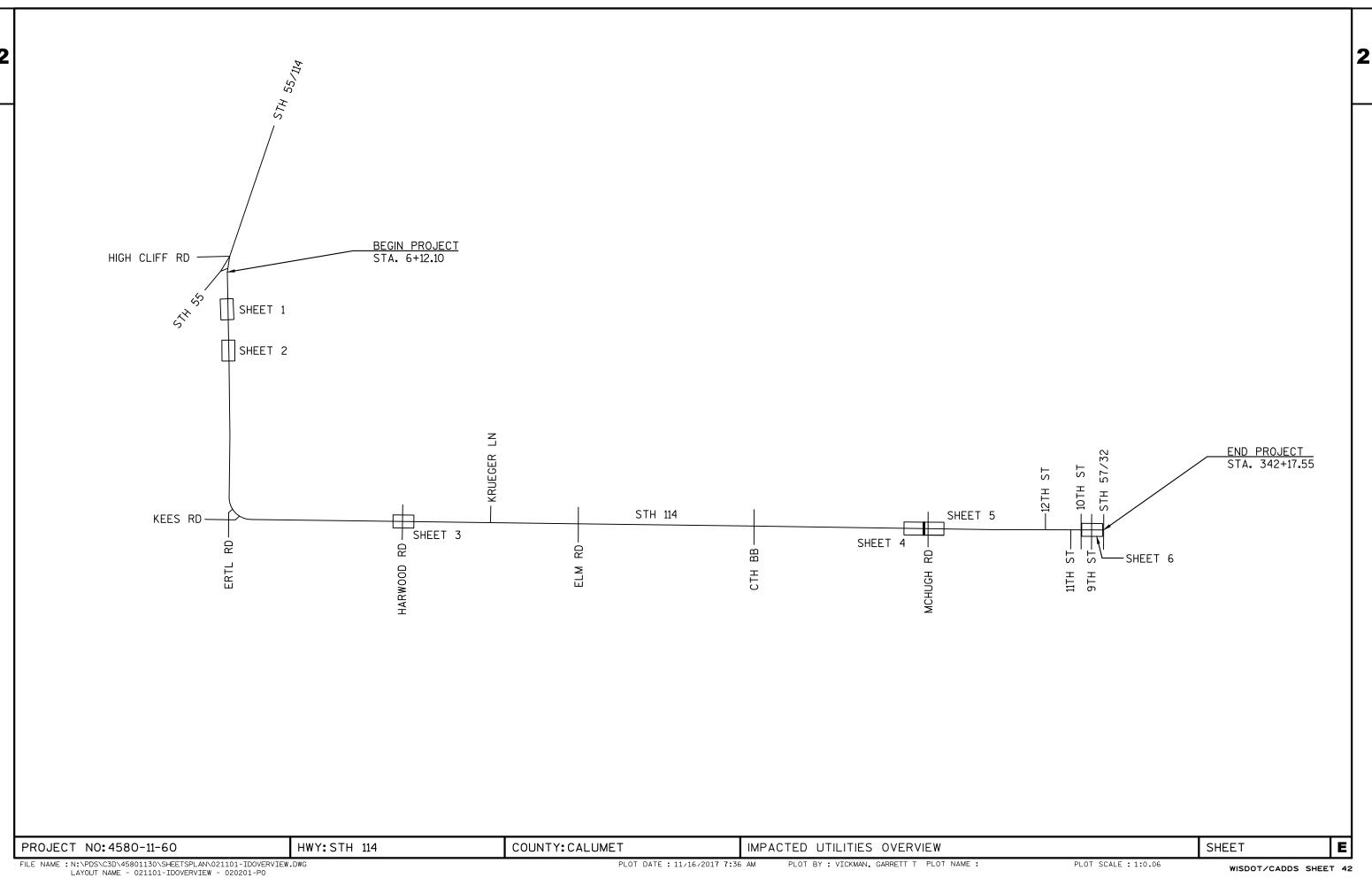
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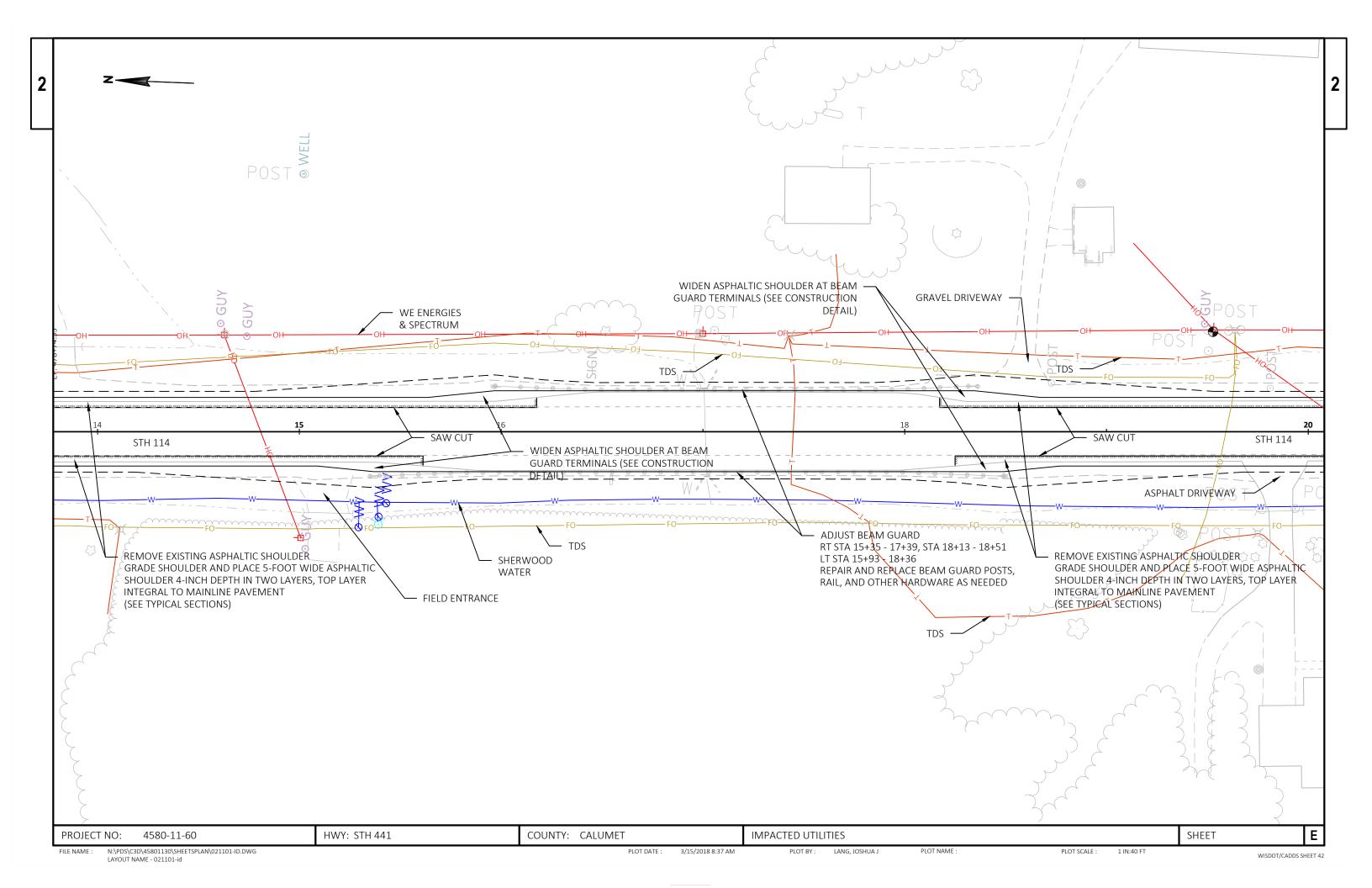
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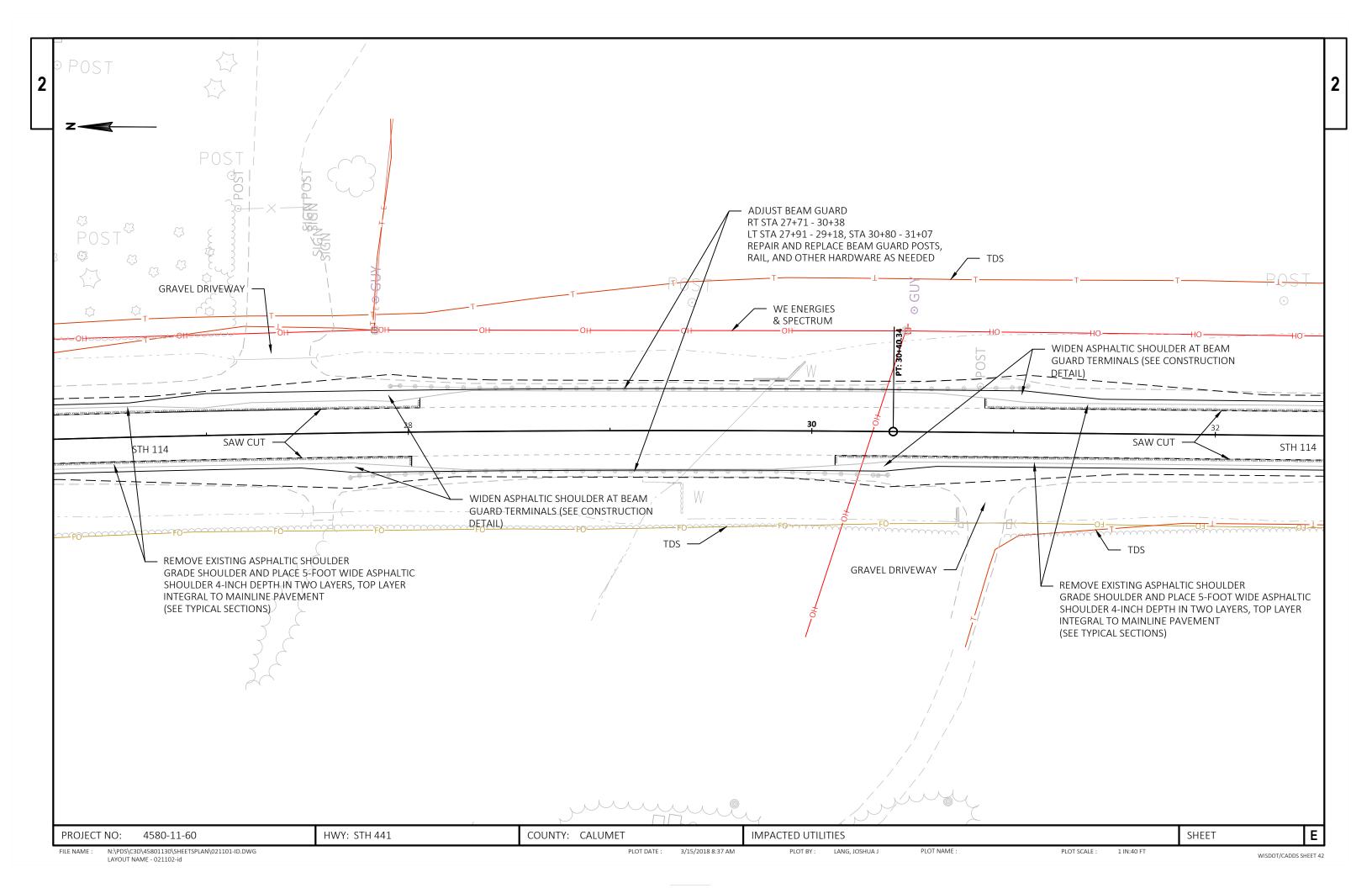
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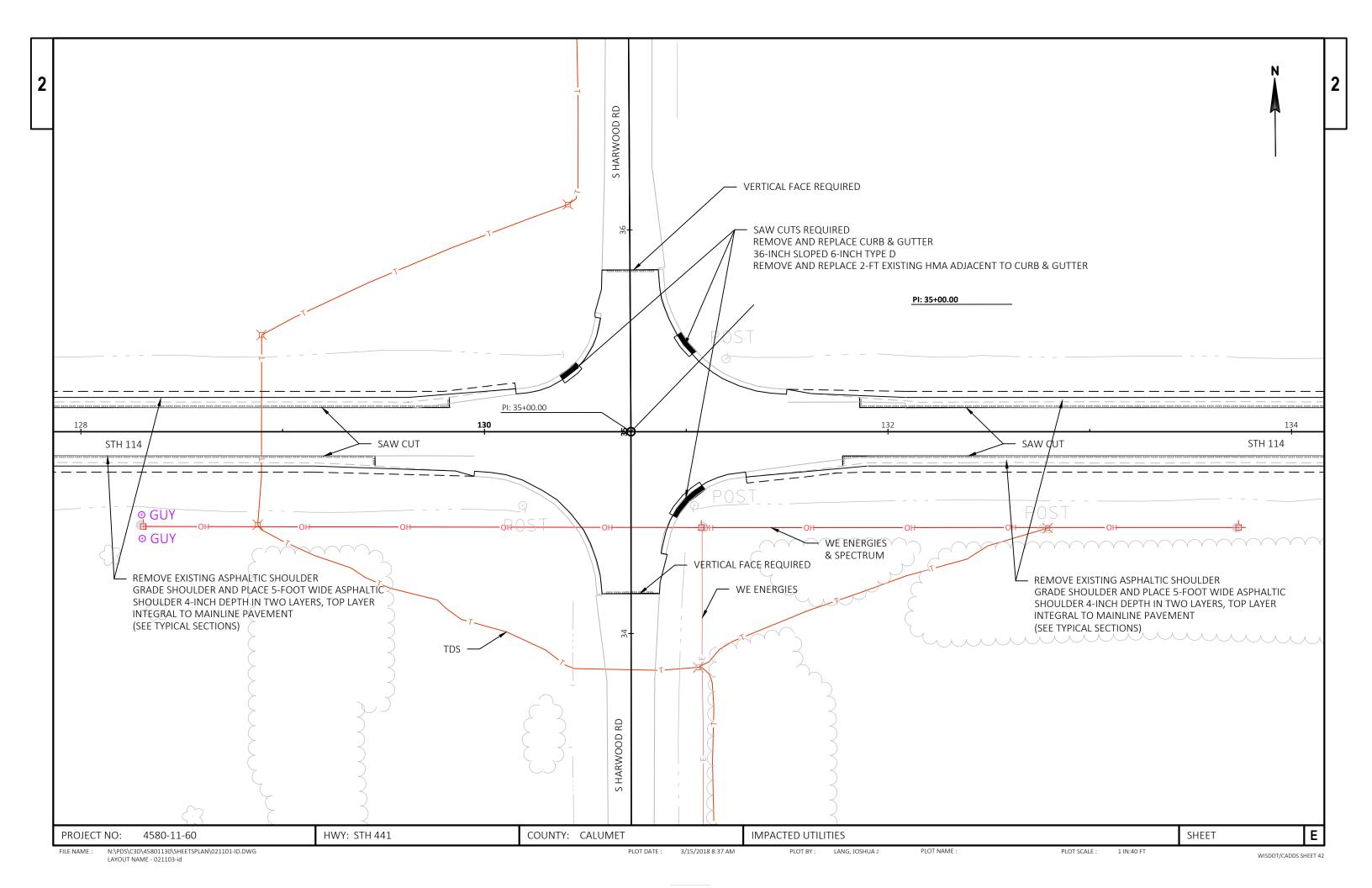
WORK ZONE ENGINEER

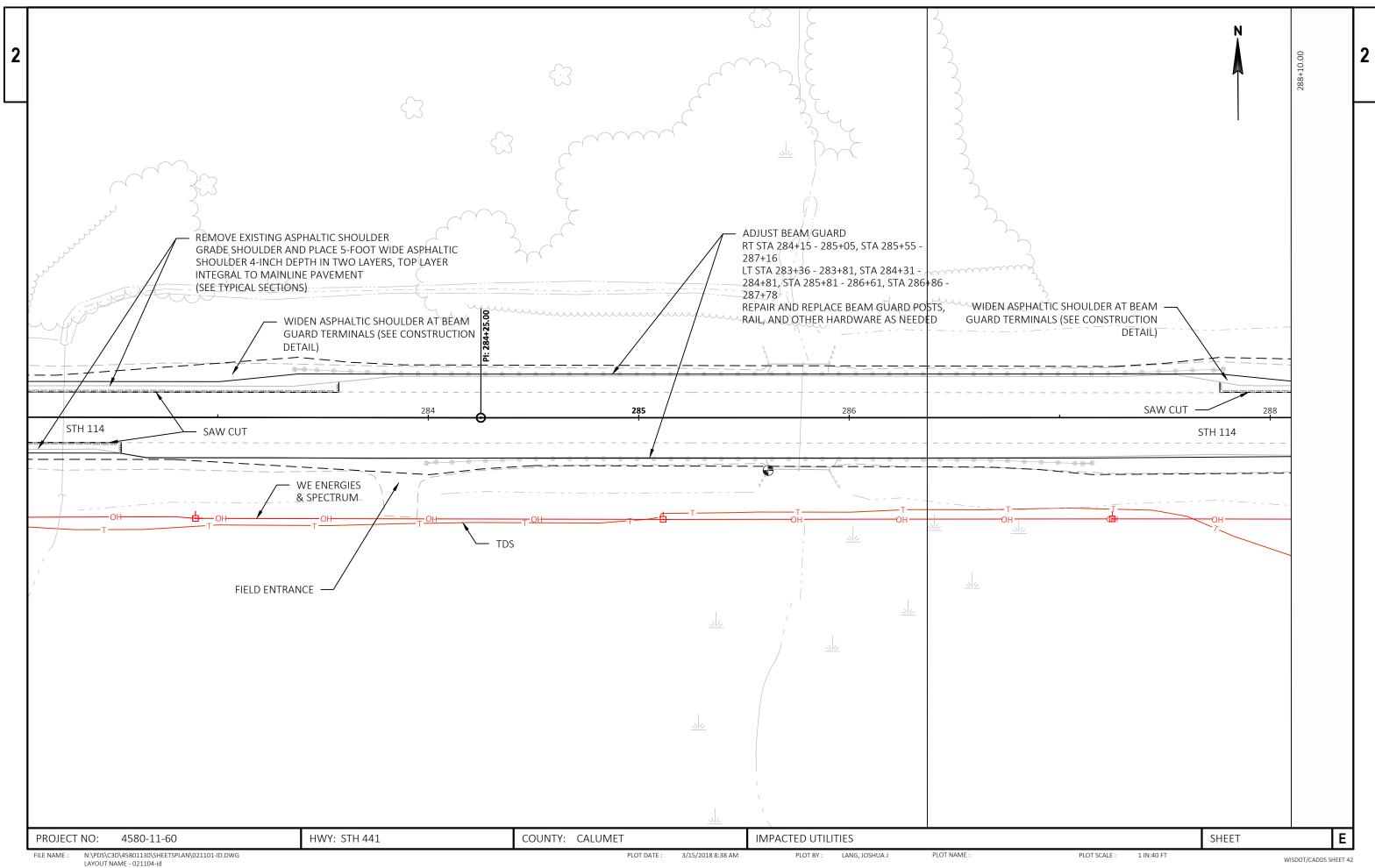
FHWA

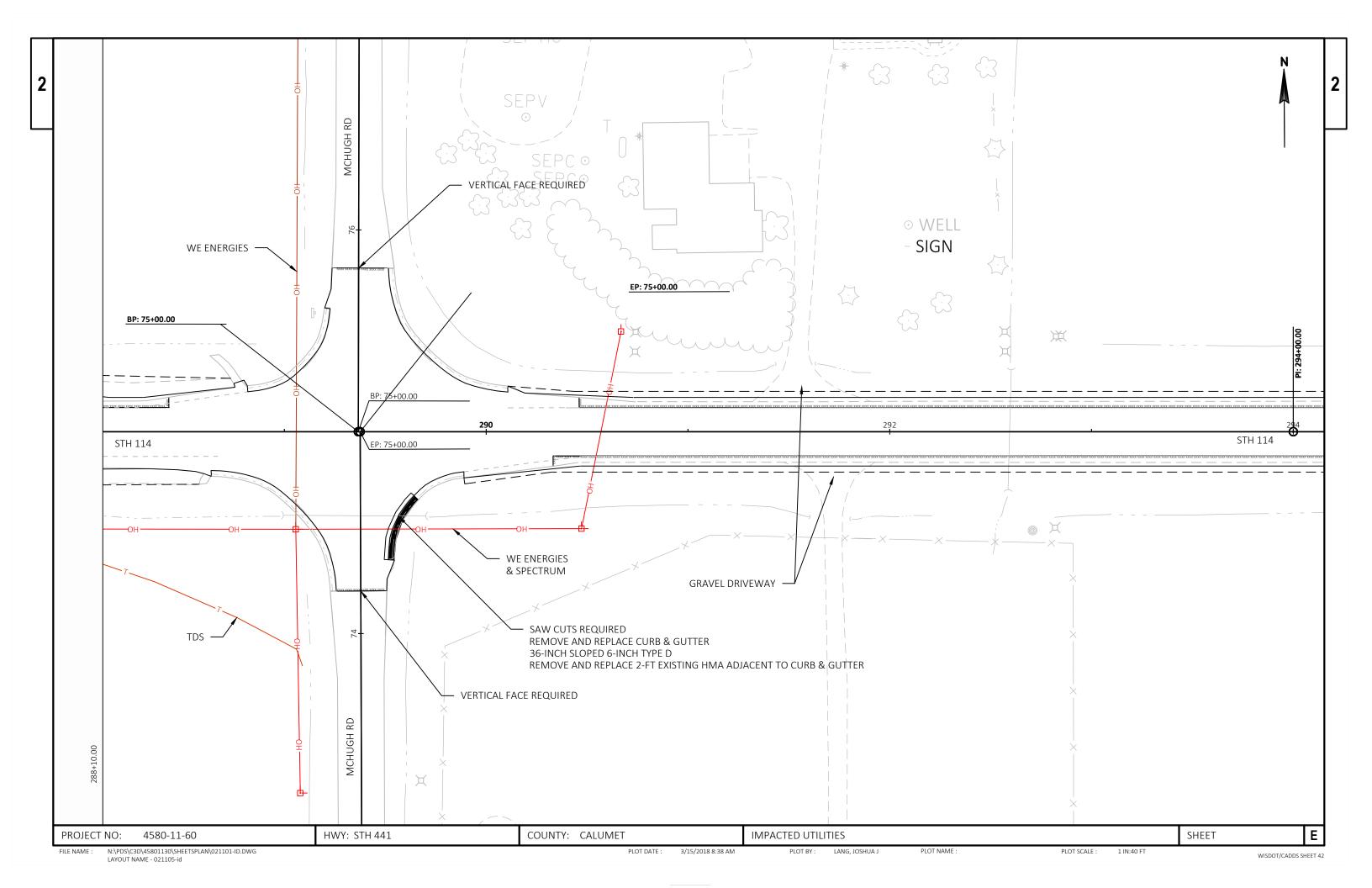


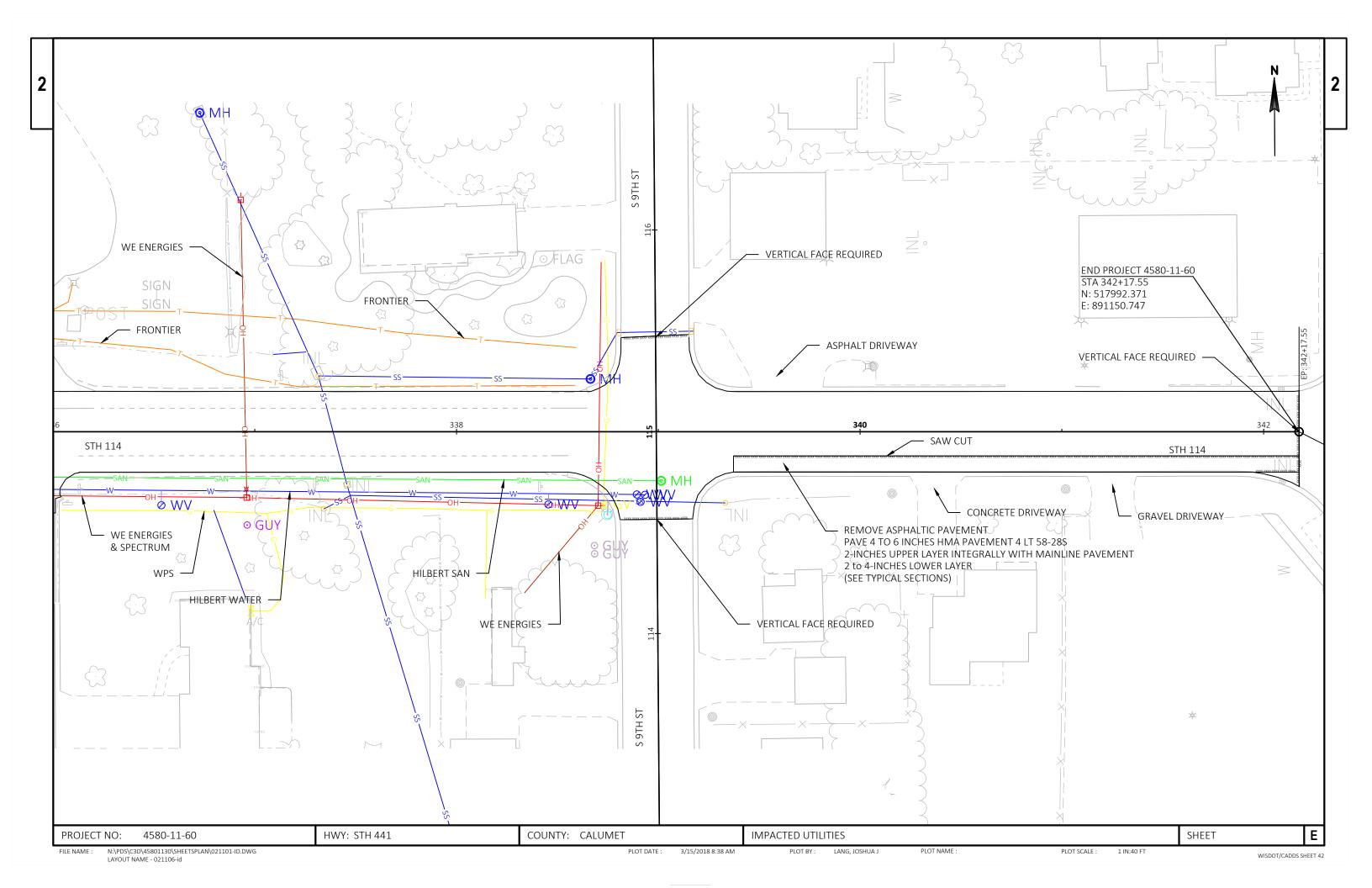












EPlans Preliminary Sheet Numbering Tool

This sheet: ftp://ftp.dot.state.wi.us/transp/roads/eplans/prelim_sheet_numbers.pdf

Notes

- Acrobat 5 or higher is required to use this tool.
- The Bureau of Highway Construction places sheet numbers in the final plan.
- This sheet is for placing preliminary sheet numbers with a "PRE_" prefix.
- If a plan contains multiple projects, number each plan individually.
- Leave this sheet in the plan.

TO ADD PRELIMINARY SHEET NUMBERS

1. Insert this sheet at the end of the plan

- a. With the plan open in Acrobat, select Document > Insert Pages.
- b. In the Select File to Insert dialog box, select this file (prelim_sheet_numbers.pdf)
- c. In the Insert dialog box, choose After for Location and Last page for Page.
- d. Click OK.

2. Click the Place Preliminary Sheet Numbers button

- a. Go to the last sheet of the plan.
- b. Click the Place Preliminary Sheet Numbers button once.
 (The preliminary sheet number appears in the bottom right corner of the sheets.
 The number should match te page number in the Acrobat Status bar).

3. Re-Save the PDF

a. Select File > Save As and save the PDF.

TO REMOVE PRELIMINARY SHEET NUMBERS