04-28-2023 LETTING ITEM 130

FOR INDEX OF SHEETS, SEE SHEET 2 OF 39

FOR HIGHWAY STANDARDS, SEE SHEET 2 OF 29

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED BRIDGE REPLACEMENT

FAU 5560 (DIXON AVENUE OVER HOWLAND CREEK) CH 3 WHITESIDE COUNTY **COLOMA TOWNSHIP** SECTION 17-00228-00-BR

> PROJECT NO. Z8AR(821) JOB NO. C-92-043-20 CONTRACT NO. 85734

EXISTING STRUCTURE 098–3001 PROPOSED STRUCTURE 098-3079

Sterling Rock Falls POP 9.765 4TH PM

SECTION 17-00228-00-BR BEGINS STATION 108+66.45 ENDS STATION 115+08.00

COUNTY SHEETS NO.
WHITESIDE 39 OF 17-00228-00-BR COLOMA THP LLKOS STRUCTURE NO. 098-3079



FUNCTIONAL CLASSIFICATION - MINOR ARTERIAL 2023 ADT = 3150DESIGN SPEED = 40 MPH

23 DISTRICT TWO ENGINEER OF Releasing For Bid Based on 20 23 2/28 DEPUTY DIRECTOR OF HIGHWAYS LO REGION TWO ENGINEER STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

UTILITIES

COMMUNICATIONS: ATT/DISTRIBUTION

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G11629@ATT.COM

COMCAST MARTHA GIERAS 224-229-5862

MARTHA GIERAS@COMCAST.COM

CITY OF ROCK FALLS ELECTRIC DEPARTMENT

815-622-1195 815-716-0120

dsimon@rockfalls61071.com

NICOR GAS UTILITY CONSULTANT GO3W 630-388-2362

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811

HLC PROJECT NO. 7164



ANTHONY K FORTIN, P.E.

LICENSE EXPIRES 11/30/2023

1. / whi 01/20/2023

THE PROPOSED IMPROVEMENT CONSISTS OF REMOVAL OF EXISTING STRUCTURE AND REPLACEMENT WITH A PBFTG DECK BEAM BRIDGE ON SPILL THROUGH CONCRETE PILE BENT ABUTMENTS AND CONCRETE ENCASED PIERS. 54' CLEAR ROADWAY AND 108"-4" BACK TO BACK ABUTMENTS, MINOR CHANNEL SHAPING, OTHER MINOR COLLATERAL WORK.

LOCATION MAP

NET LENGTH = 641.55 FT, = 0.12 MILE

TOTAL LENGTH = 641.55 FT. = 0.12 MILE

CHASTAIN & ASSOCIATES LLC DECATUR (217) 422-8544
SCHAMMBURG (723) 744-0650
ROCKFORD (815) 489-0050
484-001297

INDEX OF SHEETS

COVER SHEET GENERAL NOTES, SUMMARY OF QUANTITIES AND RATES OF APPLICATION ROADWAY TYPICAL SECTIONS

PLAN AND PROFILE STAGE CONSTRUCTION PLANS GENERAL PLAN AND ELEVATION

GENERAL DATA STAGE CONSTRUCTION

TEMPORARY CONSTRUCTION BARRIER SUPERSTRUCTURE SUPERSTRUCTURE DETAILS

BRIDGE APPROACH SLAB DETAILS STEEL RAILING, TYPE CO-10 STRUCTURAL STEEL

STRUCTURAL STEEL DETAILS WEST ABUTMENT

EAST ABUTMENT

PIER DETAILS METAL SHELL PILE DETAILS

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28 INLETS, SPECIAL (10.2)
29-32 WORK ZONE SIGN DETAILS (34.1)

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000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 280001-07 TEMPORARY EROSION CONTROL SYSTEMS PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB 424026-03 ENTRANCE/ALLEY PEDESTRIAN CROSSING 515001-04 NAME PLATES FOR BRIDGES 601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAINS 606001-08 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURE AND GUTTER 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS 631032-10 TRAFFIC BARRIER TERMINAL, TYPE 6A 631066 TRAFFIC BARRIER TERMINAL, TYPE 14 701321-18 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN

701611-01 URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN 701431-13 LANE CLOSURE, MULTILANE, UNDIV. WITH CROSSOVER, FOR SPEEDS

> 45 MPH TO 55 MPH

701901-08 TRAFFIC CONTROL DEVICES 704001-08 TEMPORARY CONCRETE BARRIER

725001-01 OBJECT AND TERMINAL MARKERS

728001-01 TELESCOPING STEEL SIGN SUPPORT

729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

780001-05 TYPICAL PAVEMENT MARKINGS

782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS', THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST PROCEDURES FOR MATERIALS", AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL " J.U.L.I.E" AT 1-800-892-0123 FOR FIELD LOCATION OF BURIED ELECTRIC, TELEPHONE, GAS AND OTHER FACILITIES AT LEAST 48 HOURS PRIOR TO BEGINNING
- LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND THE COUNTY DOES NOT COLARANTEE THEIR ACCURACY. THE CONTRACTOR SHALL HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE
 ALL OF THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS
 OF THE EXISTING UTILITIES IF NECESSARY. ANY RELOCATION OR LOWERING OF UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR IN SUCH A MANNER AS TO NOT IMPEDE PROJECT PROGRESS
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE COUNTY AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK AND COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS OR PROPERTY OR REFERENCE MARKERS UNTIL THE OWNER, HIS AGENT OR AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATIONS.
- MAINTAINING DRAINAGE: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL SUPPLY A PLAN AS A SUBMITTAL REVIEW FOR EACH LOCATION THAT WILL MAINTAIN FLOWS THAT MEET ALL LOCAL, STATE AND FEDERAL REGULATIONS AND NOT CAUSE ANY DAMAGE UPSTREAM OR TO ANY ADJACENT DRAINAGE WATERSHED. THE PLAN SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF ILLINOIS, THE PLAN MUST BE SUBMITTED AT LEAST TWO WEEKS PRIOR TO THE START OF WORK. THE COST OF MAINTAINING DRAINAGE FLOWS SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT.
- THE CONTRACTOR SHALL NOT SCALE DIMENSIONS FROM THE CONTRACT PLANS FOR CONSTRUCTION PURPOSES. SCALES, IF SHOWN ARE FOR INFORMATION ONLY.
- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL, THE PROPOSED CONCRETE TRUCK WASHOUT LOCATION . RUNOFF FROM WASHOUT AREAS SHALL BE CONTAINED IN DESIGNATED AREAS SO THAT RUNOFF DOES NOT REACH DITCHES, STREAMS, OR DRAINAGE SYSTEMS.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURES HAVE BEEN TAKEN FROM FIELD MEASUREMENTS AND AS-BUILT PLANS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF THE
- 11. ALL WORK SHALL BE COMPLETED WITHIN THE COUNTY RIGHT-OF-WAY WITH NO EQUIPMENT OR MATERIAL STORAGE ON PRIVATE PROPERTY
- 12. THE CONTRACTOR'S OPERATIONS AND TEMPORARY STORAGE ACTIVITIES SHALL BE LIMITED TO THE WORK AREA AND/OR CONSTRUCTION LIMITS.
- 13. COORDINATE ANY REQUIRED SIGN REMOVAL WITH THE COUNTY ONE (1) WEEK PRIOR TO CONSTRUCTION.
- 14. NO CHANNEL GRADING OR CULVERT CONSTRUCTION ACTIVITIES WILL BE ALLOWED IN STANDING WATER OR DURING PERIODS OF HIGH FLOWS AND EXCESSIVE CHANNEL FLOW VELOCITIES.
- SAW CUTTING SHALL BE PERFORMED AT LOCATIONS DESIGNATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER, AND SHALL BE CONSIDERED INCLUDED IN THE COST OF APPLICABLE PAY ITEMS. CLEANING AND REMOVAL OF ANY AND ALL SAW CUT DEBRIS SHALL ALSO BE INCLUDED. TRAFFIC IS TO BE MAINTAINED FOR THE DURATION OF THE
- 16. THE FOLLOWING BMPS SHALL BE IMPLEMENTED TO CONTROL RESIDUAL CONCRETE, CONCRETE SEDIMENTS, AND RINSE WATER:

A) TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED FOR RINSING OUT CONCRETE TRUCKS. SIGNS SHALL BE INSTALLED DIRECTING CONCRETE TRUCK DRIVERS WHERE DESIGNATED WASHOUT FACILITIES ARE

B) THE CONTRACTOR SHALL HAVE THE LOCATION OF TEMPORARY CONCRETE WASHOUT FACILITIES APPROVED BY THE RESIDENT ENGINEER.

C) ALL TEMPORARY CONCRETE WASHOUT FACILITIES ARE TO BE INSPECTED BY THE CONTRACTOR AFTER EACH USE AND ALL SPILLS MUST BE REPORTED TO THE RESIDENT ENGINEER AND CLEANED UP IMMEDIATELY.

D) CONCRETE WASTE SOLIDS/LIQUIDS SHALL BE DISPOSED OF PROPERLY.

COMMITMENT: WETLAND IDENTIFIED ON THE PLAN IS OUTSIDE PROJECT LIMITS AND WILL BE AVOIDED.

RATES OF APPLICATION

ITEMS		RATE OF APPLICATION
AGGREGATE BASE COURSE	=	2.05 TONS/ CU YD
RIPRAP	=	1.5 TONS/ CU YD
PORTLAND CEMENT	=	8% BY WEIGHT
BITUMINOUS MATERIALS (TACK COAT)	_	0.025 LB/SQ FT
BITUMINOUS MATERIALS (PRIME COAT)	=	0.25 TO 0.50 GAL/SQ YD AT 8.2 TO 8.35 LB/GAL

	CONSTRUCTION TYPE CODE:0010	L	<u>.v</u>	OO1 O	
20200100	PAY ITEM EARTH EXCAVATION			Unit Cu. Yd.	Total 797
25000200	SEEDING, CLASS 2			Acre	0.50
25000200	NITROGEN FERTILIZER NUTRIENT			Pound	28
25000500	PHOSPHORUS FERTILIZER NUTRIENT			Pound	28
25000600	POTASSIUM FERTILIZER NUTRIENT			Pound	28
25100630	EROSION CONTROL BLANKET			Sq. Yd.	1477
28000400	PERIMETER EROSION BARRIER			Foot	1119
28000510	INLET FILTERS			Each	2
28100107	STONE RIPRAP, CLASS A4			Sq. Yd.	650
28200200	FILTER FABRIC			Sq. Yd.	650
35101800	AGGREGATE BASE COURSE, TYPE B 6"			Sq. Yd.	335
35102000	AGGREGATE BASE COURSE, TYPE B 8*			Sq. Yd.	687
35102400	AGGREGATE BASE COURSE, TYPE B 12"			Sq. Yd.	119
40600275	BITUMINOUS MATERIALS (PRIME COAT)			POUND	6863
40600290	BITUMINOUS MATERIALS (TACK COAT)			POUND	467
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C" N			TON	420
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH	SLAE	<u> </u>	SQ. YD. SQ. FT.	111
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH			SQ. FT.	8
42400800	DETECTABLE WARNING			SQ. YD.	2281
44000161 44000200	HMA SURFACE REMOVAL, 3" DRIVEWAY PAVEMENT REMOVAL			SQ. YD.	143
44000300	CURB REMOVAL			FOOT	1060
44000600	SIDEWALK REMOVAL			SQ. FT,	97
50100100	REMOVAL OF EXISTING STRUCTURES			EACH	1
50200100	STRUCTURE EXCAVATION			CU. YD.	288
50200300	COFFERDAM EXCAVATION			CU. YD.	430
50201121	COFFERDAM (TYPE 2)(LOCATION-1)			EACH	1
50201122	COFFERDAM (TYPE 2)(LOCATION-2)			EACH	1
50300225	CONCRETE STRUCTURES			CU. YD.	259
50300255	CONCRETE SUPERSTRUCTURE			CU. YD.	2.2
50300260	BRIDGE DECK GROOVING			SQ. YD.	626
50300265	SEAL COAT CONCRETE			CU. YD.	238
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)			CU, YD,	157
50800205 50800515	REINFORCEMENT BARS, EPOXY COATED			POUND EACH	84,450 400
50900207	BAR SPLICERS			FOOT	277
51200958	STEEL RAILING, TYPE CO-10 FURNISHING METAL SHELL PILES 14" X 0.250"			FOOT	1415
51202305	DRIVING PILES DRIVING PILES			FOOT	1415
51203200	TEST PILE METAL SHELLS			EACH	4
51204650	PILE SHOES			EACH	42
51500100	NAME PLATES			EACH	1
52100520	ANCHOR BOLTS, 1"			EACH	108
52200010	TEMPORARY SHEET PILING			SQ. FT.	435
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"			FOOT	20
58600101	GRANULAR BACKFILL FOR STRUCTURES			CU. YD.	56
59100100	GEOCOMPOSITE WALL DRAIN			SQ. YD.	90
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS			EACH	4
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"			FOOT	180
60500060	REMOVING INLETS			FOOT	883
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B	-6.24		+	4
63100119	TRAFFIC BARRIER TERMINAL, TYPE 14	ur.		EACH EACH	4
67100100	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGEI MOBILIZATION	4 I		L SUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701:	321		EACH	1
70103405	TRAFFIC CONTROL SURVEILLANCE			CAL DAY	105
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS			EACH	1
70106700	TEMPORARY RUMBLE STRIPS			EACH	2
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"			FOOT	1000
70300150	SHORT TERM PAVEMENT MARKING REMOVAL			SQ FT	4687
70307120	TEMPORARY PAVEMENT MARKING - LINE 4*- TYPE IV T	APE		FOOT	15133
70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV	TAPE		FOOT	24
70400100	TEMPORARY CONCRETE BARRIER			FOOT	810
70400125	PINNING TEMPORARY CONCRETE BARRIER		FOOT	108	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER				570
70600240 70600340	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2				2
70600340	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 2				4
78009004	TERMINAL MARKER-DIRECT APPLIED MODIFIED URETHANE PAVEMENT MARKING - LINE 4"			FOOT	2742
X0322916	PROPOSED STORM SEWER CONNECTION TO EXISTING	STOR	M SEWER	EACH	3
X0326806	WASHOUT BASIN			L SUM	1
X6024240	INLETS, SPECIAL			EACH	2
XX009565	ERECTING SUPERSTRUCTURE	***************************************		SQ. FT.	6175
Z0004510	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"			SQ. YD.	119
20013798	CONSTRUCTION LAYOUT			L SUM	1
FNERAL NATE	S, SUMMARY OF QUANTITIES	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	ATES OF APPLICATION	5560	17-00228-00-BR	WHITESIDE	39 2
ANU NA			SECT 764 HUNDIS FED AID	CONTRACT N	10.

SUMMARY OF QUANTITIES

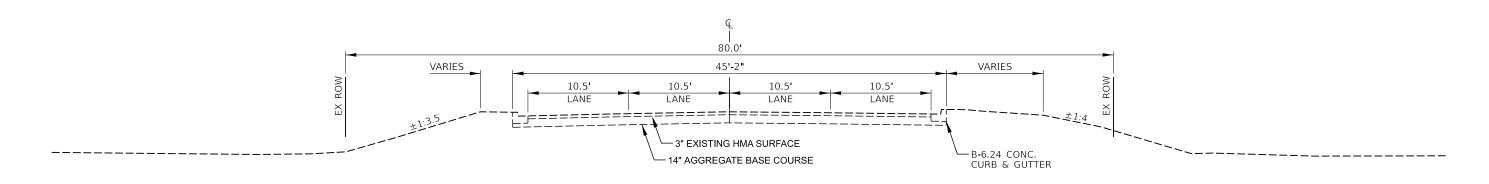
85734

CHASTAIN ASSOCIATES LLC CONSULTING ENGINEERS

SER NAME = |madara DESIGNED - ARF REVISED DRAWN - JOH REVISEO . LOT SCALE = 20.0000 '/In. CHECKED - TWO REVISED PLOT DATE # 3/8/2023 REVISED DATE - 02/15/2023

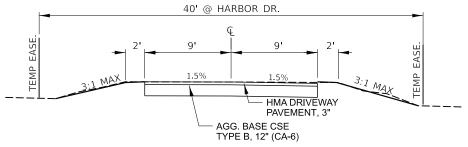
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

GEI PROJECT 7/64 ILLINOIS FED. AID PROJECT SCALE: SHEET SHEETS STA. TO STA.



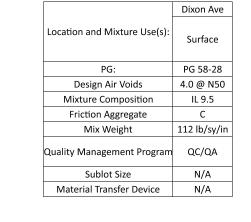
EXISTING TYPICAL SECTION

STA. 108+98.98 TO 111+58.63 STA. 112+53.31 TO 115+08.00



HARBOR DR./FIELD ENTRANCE DETAIL

HARBOR DRIVE STA. 110+25.83 LT. FIELD ENTRANCE STA. 108+83.48 RT.



-	Q 80.0' VARIES
EX ROW	4' VARIES 10.5' 10.5' 10.5' VARIES 4' ARES 1.5% AND VARIES 1.5

PROPOSED TYPICAL SECTION

STA. 108+98.98 TO 111+11.83 STA. 113+00.17 TO 115+08.00

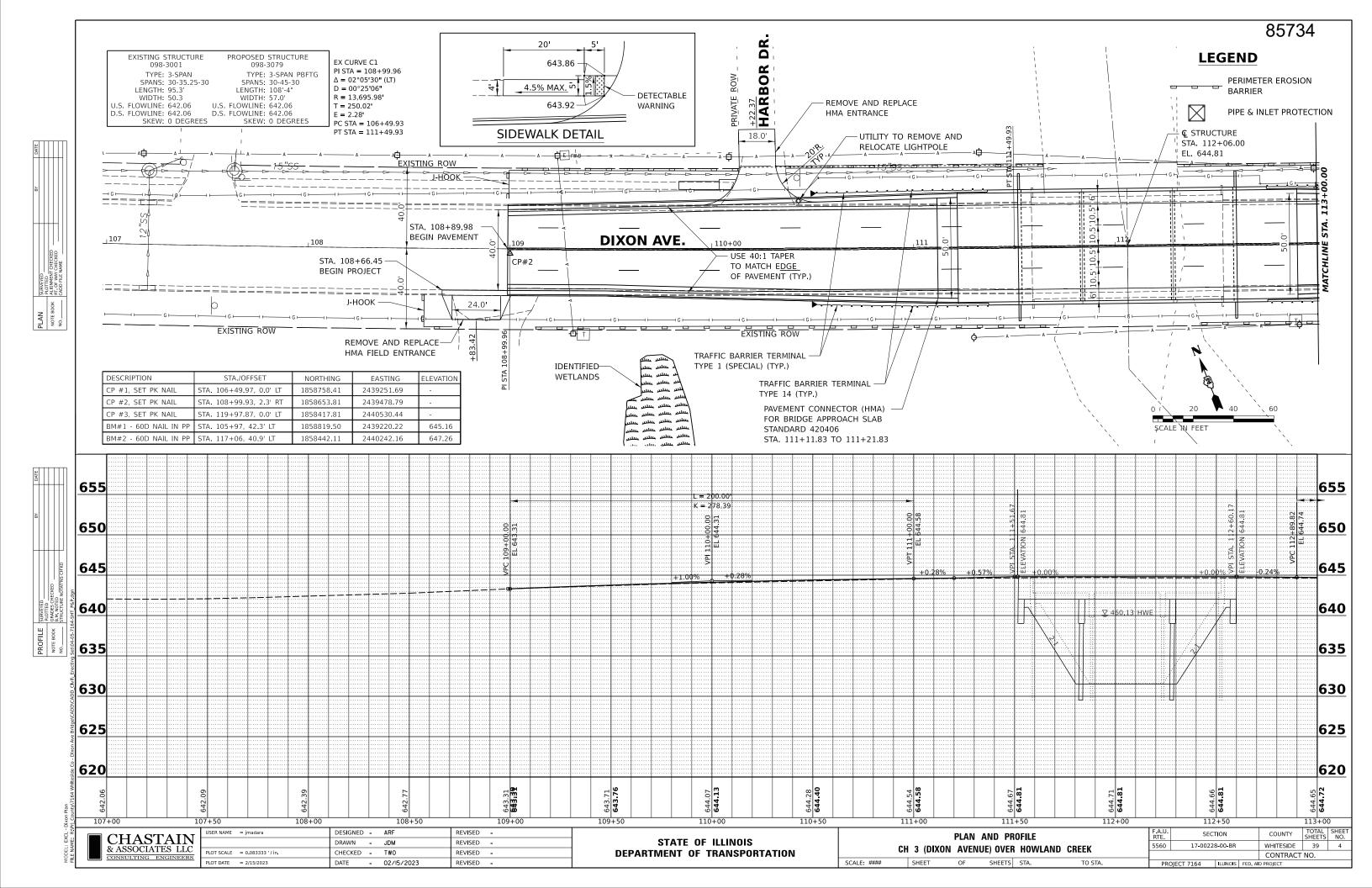
CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS

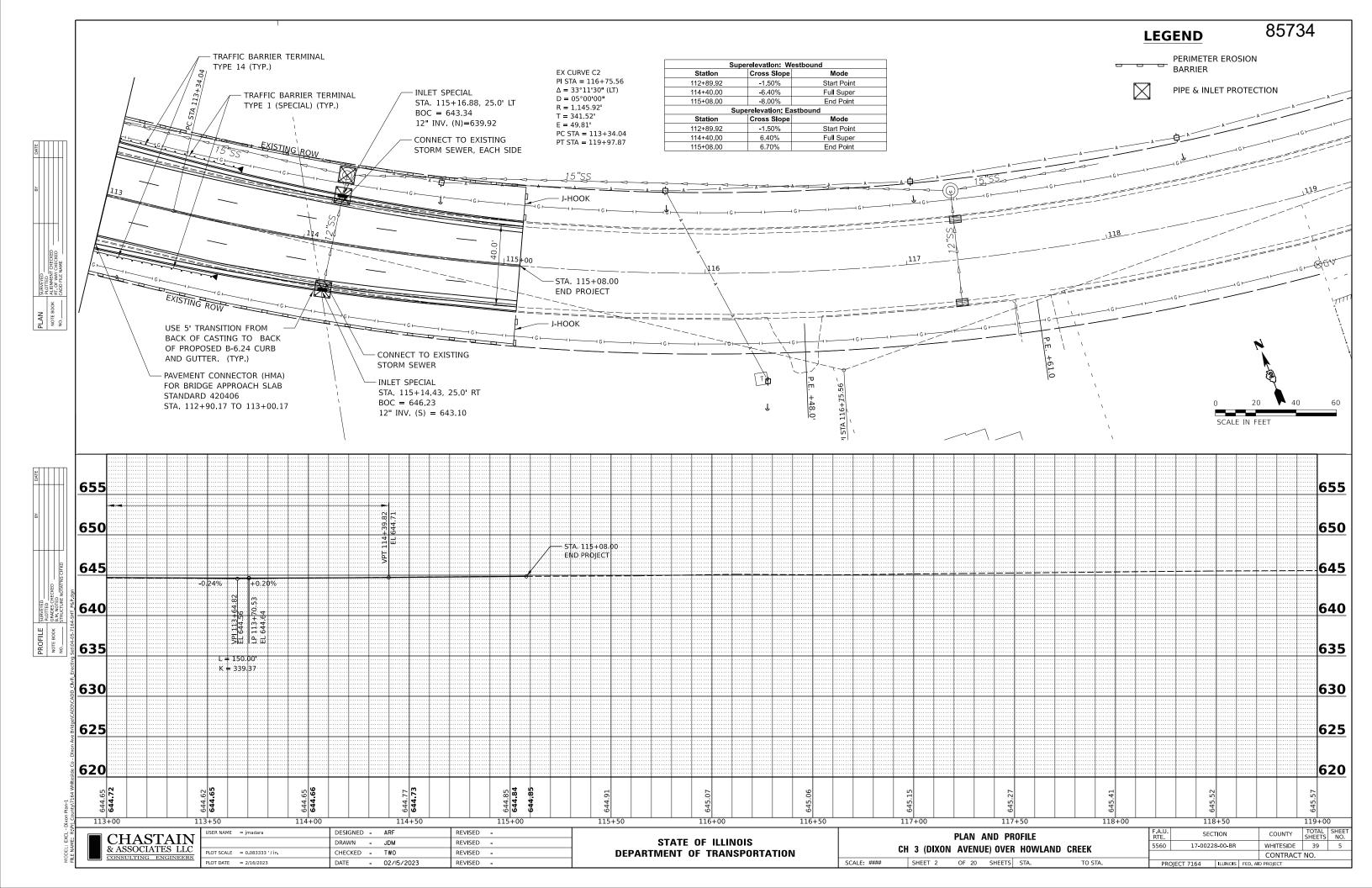
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ļ		DRAWN -	JDM	REVISED -	
-	PLOT SCALE = 20.0000 / in.	CHECKED -	TWO	REVISED -	
2	PLOT DATE = 2/27/2023	DATE -	02/15/2023	REVISED -	

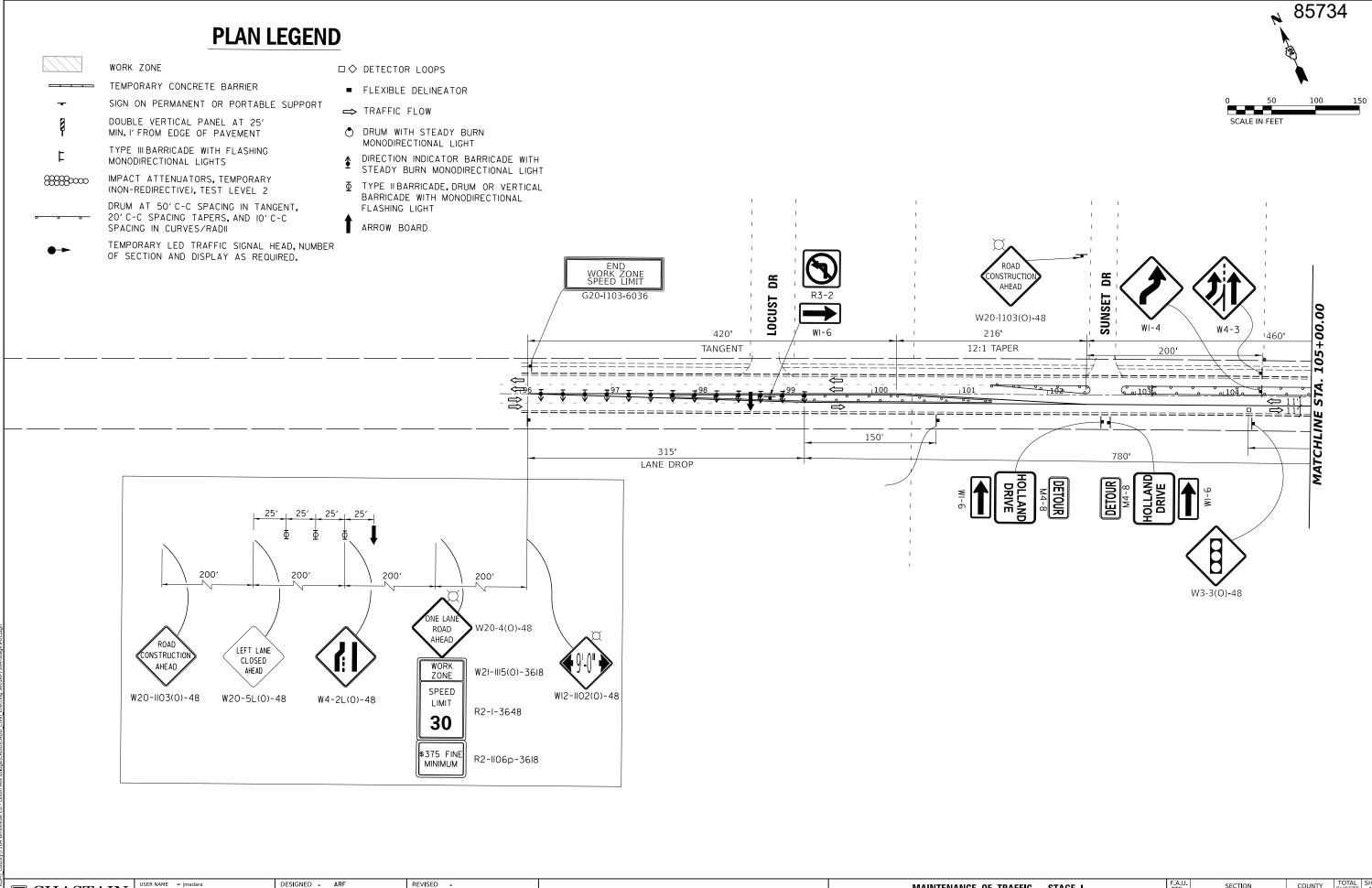
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

DOADWAY TYPICAL OFOTIONS						RTE. SECTION				COUNTY	SHEETS	NO.
ROADWAY TYPICAL SECTIONS					5560	5560 I7-00228-00-BR		WHITESIDE	39	3		
										CONTRACT	NO.	
SHEET	OF	SHEETS	STA.	TO STA.	PROJECT 7I64			ILLINOIS	FED. Al	D PROJECT		







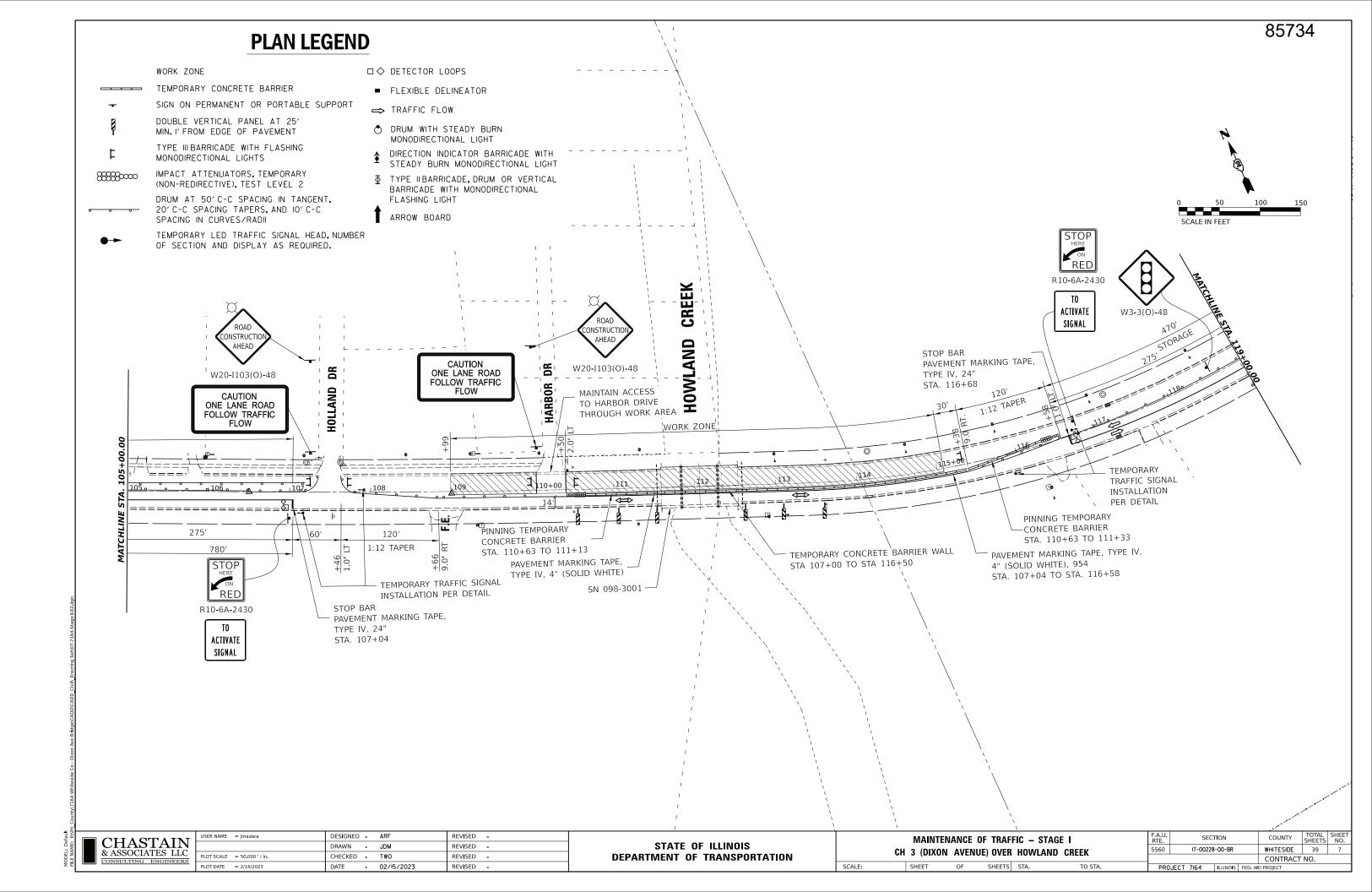
CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS

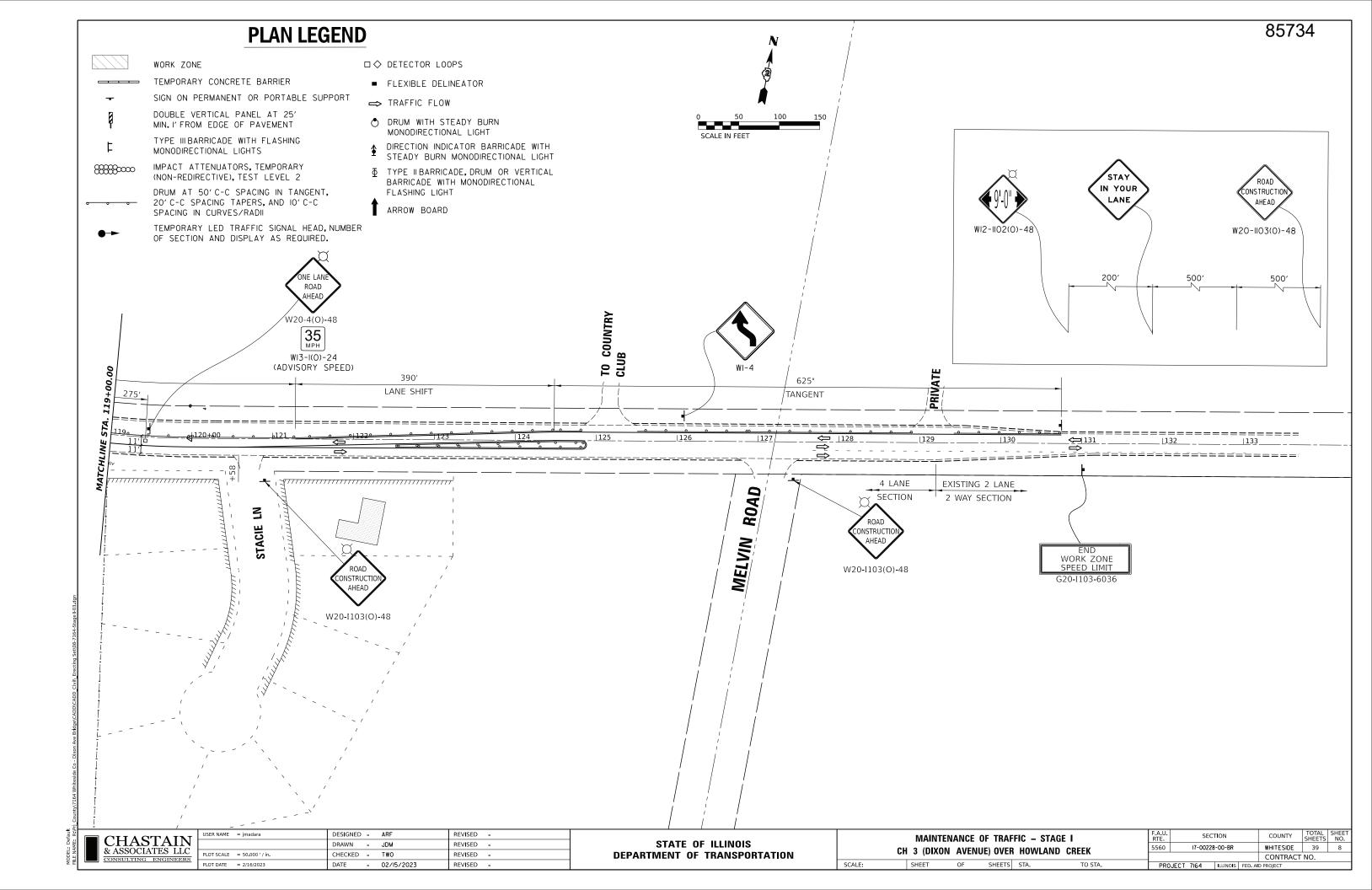
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PLOT DATE = 2/16/2023	DATE -	-	02/15/2023	REVISED	-
F	PLOT SCALE = 50.000 ' / in.	DRAWN . PLOT SCALE = 50.000 '/ in. CHECKED .	DRAWN - PLOT SCALE = 50.000 '/ in. CHECKED -	DRAWN - JDM PLOT SCALE = 50.000 '/ in. CHECKED - TWO	DRAWN - JDM REVISED

STATE OF ILLINOIS							
DEPARTMENT	0F	TRANSPORTATION					

SCALE:

	MAINTENANCE OF TRAFFIC - STAGE I						F.A.U. RTE. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
CH	CH 3 (DIXON AVENUE) OVER HOWLAND CREEK					5560	5560 I7-00228-00-BR		WHITESIDE	39	6		
011	CII 3 (DIXON AVENUE) OVEN HOVVEAND CHEEK										CONTRACT	NO.	
	SHEET	OF	SHEETS	STA.	TO STA.	PRO	JECT	7164	ILLINOIS	FED. Al	D PROJECT		





PLAN LEGEND

WORK ZONE

TEMPORARY CONCRETE BARRIER

SIGN ON PERMANENT OR PORTABLE SUPPORT

DOUBLE VERTICAL PANEL AT 25'
MIN. I' FROM EDGE OF PAVEMENT

ļ.

TYPE III BARRICADE WITH FLASHING MONODIRECTIONAL LIGHTS

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IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2

DRUM AT 50'C-C SPACING IN TANGENT, 20'C-C SPACING TAPERS, AND 10'C-C SPACING IN CURVES/RADII

•-

TEMPORARY LED TRAFFIC SIGNAL HEAD, NUMBER OF SECTION AND DISPLAY AS REQUIRED.

□ ♦ DETECTOR LOOPS

- FLEXIBLE DELINEATOR
- ⇒ TRAFFIC FLOW
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- DIRECTION INDICATOR BARRICADE WITH
 STEADY BURN MONODIRECTIONAL LIGHT
- TYPE HBARRICADE, DRUM OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- ARROW BOARD

MATCHLINE STA

635'

W20-I103(O)-48

315'

LANE DROP

SCALE:

85734

SCALE IN FEET

25' 25' 25' 25' 200'

ROAD CONSTRUCTION AHEAD AHEAD AHEAD AHEAD W20-1103(0)-48 W20-5R(0)-48 W4-2R(0)-48

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS

USER NAME = jmadara	DESIGNED	-	ARF	REVISED -	
	DRAWN	-	JDM	REVISED -	
PLOT SCALE = 50.000 ' / in.	CHECKED	-	TWO	REVISED -	
PLOT DATE = 2/20/2023	DATE	-	02/15/2023	REVISED -	

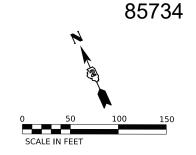
	MAINTENANCE OF TRAFFIC – STAGE II						SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
СН	3 (DIXON	AVENUE	1 OVER	ΗΩΜΙ ΔΝΙ	CREEK	5560	17-00228	8-00-BR		WHITESIDE	39	9
•	CH 3 (DIXON AVENUE) OVER HOWLAND CREEK									CONTRAC	NO.	
	SHEET	OF	SHEETS	STA.	TO STA.	PR0	JECT 7164	ILLINOIS	FED. All	D PROJECT		

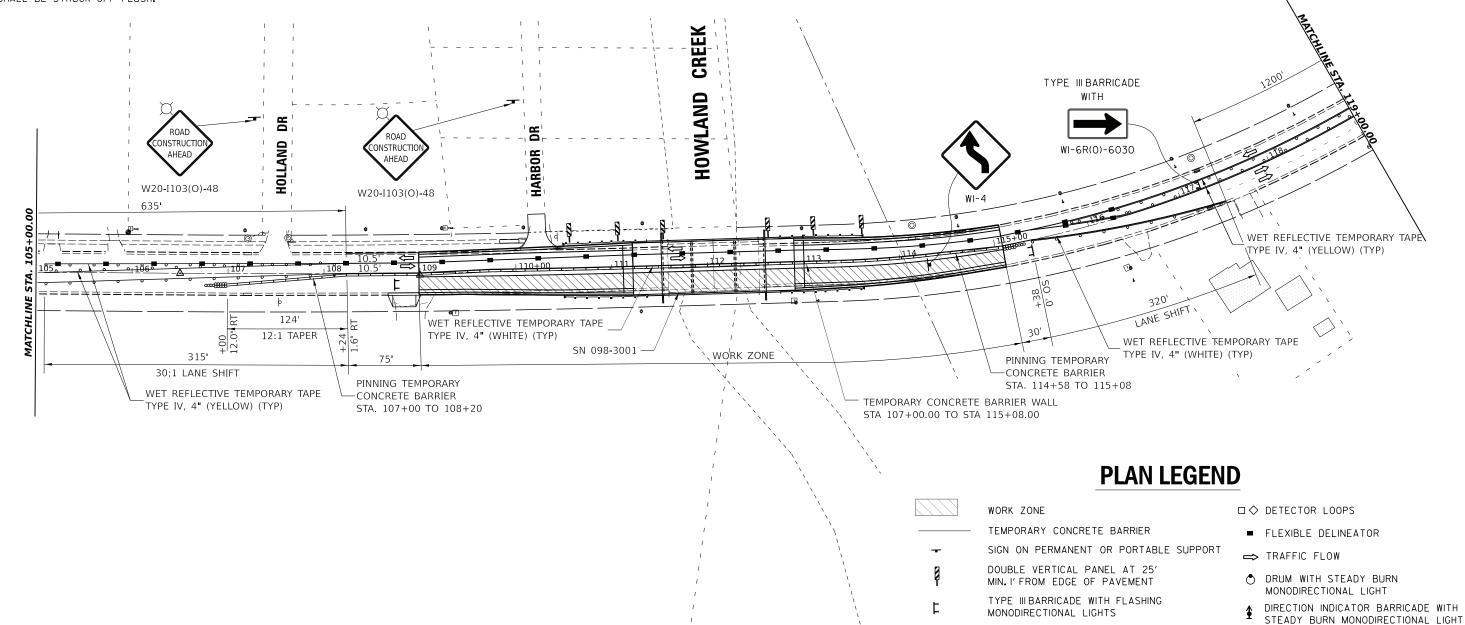
NOTES

WHEN THE BARRIER IS RELOCATED WITHIN THE LIMITS OF THE JOBSITE, THE RELOCATED BARRIER WILL BE MEASURED FOR PAYMENT IN FEET (METERS) IN PLACE ALONG THE CENTERLINE OF THE BARRIER.

WHEN RELOCATION OF TEMPORARY IMPACT ATTENUATORS IS SPECIFIED, THEY SHALL BE REMOVED, RELOCATED, AND REINSTALLED AT THE NEW LOCATION. THE REINSTALLATION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR A NEW INSTALLATION.

WHEN IMPACT ATTENUATORS HAVE BEEN ANCHORED TO THE PAVEMENT, THE ANCHOR HOLES SHALL BE REPAIRED WITH RAPID SET MORTAR; ONLY ENOUGH WATER TO PERMIT PLACEMENT AND CONSOLIDATION BY RODDING SHALL BE USED AND THE MATERIAL SHALL BE STRUCK-OFF FLUSH.





CHASTAIN
& ASSOCIATES LLC CONSULTING ENGINEERS

SER NAME = jmadara	DESIGNED	-	ARF	REVISED -	ĺ
	DRAWN	-	JDM	REVISED -	İ
OT SCALE = 50.000 ' / in.	CHECKED	-	TWO	REVISED -	İ
OT DATE = 2/20/2023	DATE	-	02/15/2023	REVISED -	
	OT SCALE = 50.000 ' / in.	DRAWN OT SCALE = 50.000 '/ in. CHECKED	DRAWN - OT SCALE = 50.000 ' / in. CHECKED -	DRAWN - JDM OT SCALE = 50,000 '/ in. CHECKED - TWO	DRAWN - JDM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – STAGE II								
СН	3 (DIXON	AVENUE) OVER	HOWLAND	CREEK			
	SHEET	OF	SHEETS	STA	TO STA			

IMPACT ATTENUATORS, TEMPORARY

(NON-REDIRECTIVE), TEST LEVEL 2

SPACING IN CURVES/RADII

DRUM AT 50'C-C SPACING IN TANGENT,

TEMPORARY LED TRAFFIC SIGNAL HEAD, NUMBER OF SECTION AND DISPLAY AS REQUIRED.

20'C-C SPACING TAPERS, AND 10'C-C

8888

SCALE:

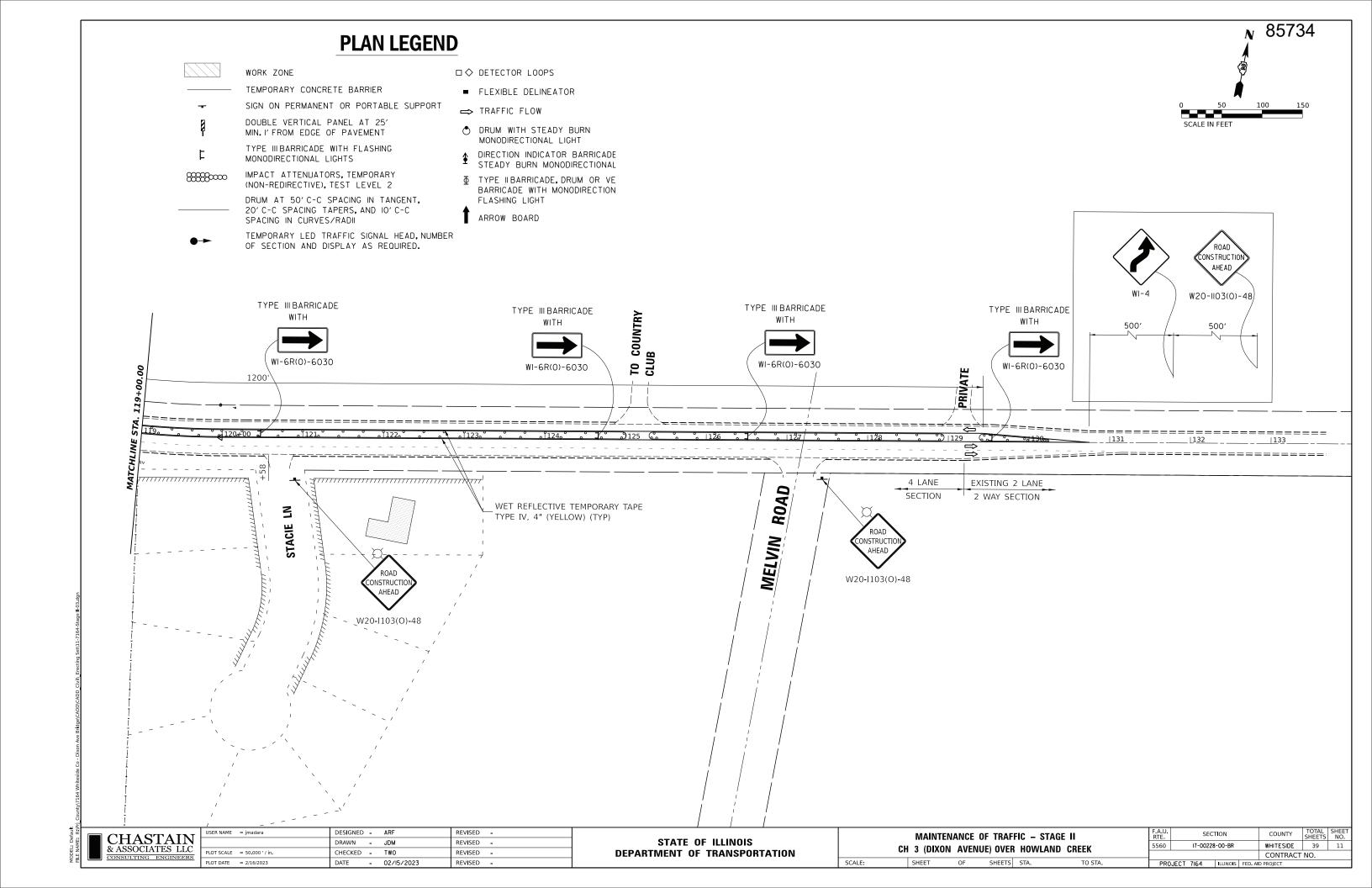
F.A.U. RTE		SEC	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
5560		17-00228-00-BR			WHITESIDE	39	10
			CONTRACT	NO.			
PRO	JECT	7164	ILLINOIS	FED. Al	D PROJECT		

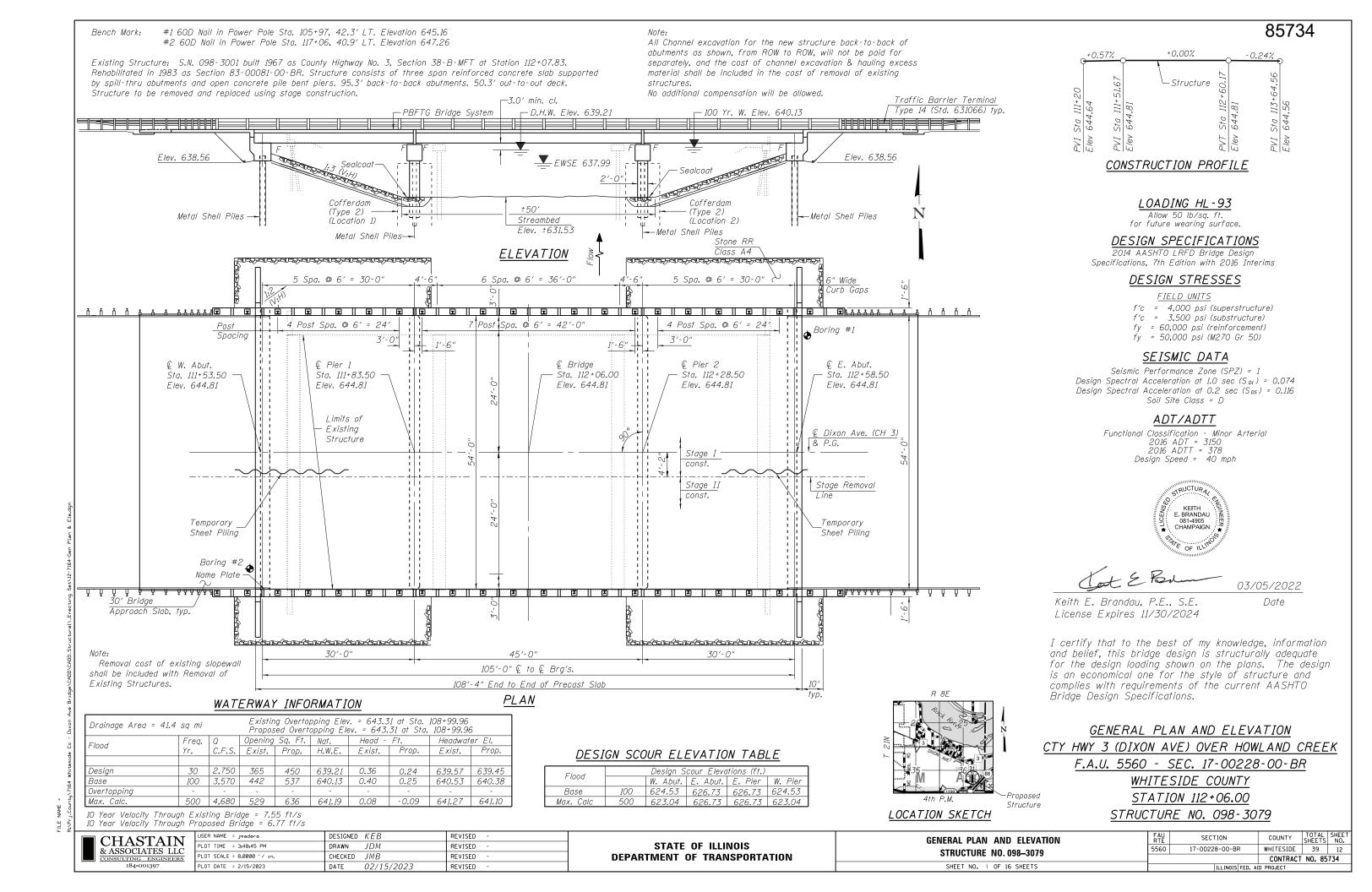
 Φ TYPE II BARRICADE, DRUM OR VERTICAL

BARRICADE WITH MONODIRECTIONAL

FLASHING LIGHT

ARROW BOARD





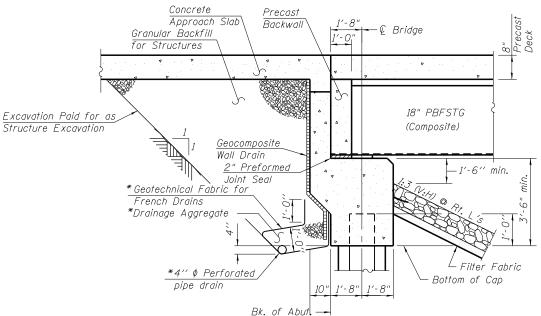
- 2. All structural steel hardware shall be mechanically galvanized, per ASTM A153.
- 3. High strength bolts: ASTM F3125 Gr A325, Type I

Anchor bolts: ASTM F1554, Grade 55

Nuts: ASTM A563/A563U, Grade DH

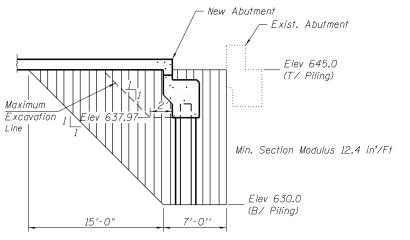
Washers: ASTM F436/F436M, Type I

- 4. Tighten all bolts using the turn of the nut method per research council on structural connections (RCDC) requirements for slip critical connections.
- 5. A higher strength concrete may be substituted for a lower strength concrete, if approved by the bridge engineer of record.
- 6. All fabricated steel shall be hot dip galvanized per AASHTO M11 (ASTM A123).
- 7. Weld shear studs to steel surfaces and perform preproduction test as required in AASHTO/AWS D1.5 (2015). Shear connector studs must meet the requirements of AASHTO 169, For cold finish carbon steel, cold-drawn bar, Grade 1015 or Grade 1020, either semi-killed or fully killed.
- The quantity, size, and location of placement for each shear stud type specified per approved shop drawings. Shear stud weld shall be checked for uniformity around the base, a specified number (1 percent) of all shear studs shall be bent 10°-15° out of plumb, using an eight-pound hammer.
- Do not field-weld on any part of the bridge, except where shown on the drawings, without prior approval of the Engineer.
- 10. No field welding is permitted except as specified in the contract documents.
- 11. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
- 12. Reinforcement bars designated (E) shall be epoxy coated.
- 13. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- 14. Layout of slope protection system may be varied to suit ground conditions in the field as directed by the ENGINEER. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- 15. Sealcoat thickness design to be based on the Estimated Water Surface Elevation (EWSE). Cofferdam design and sealcoat thickness design to be submitted to the Engineer for approval with cofferdam design.
- 16. The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except construction as shown in the plans or os allowed in the Special Provision for Temporary Stream Crossings and In Stream Work Pads.

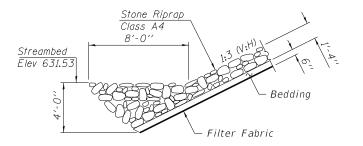


SECTION THRU ABUTMENT

(Dimensions are at Rt. L's,



TEMPORARY SHEET PILING DETAIL (Typ. Both Abutments)



STONE RIPRAP ANCHOR DETAIL

Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

* Included in the cost of Pipe Underdrain for Structures

INDEX OF SHEETS

- General Plan and Elevation
- General Data
- Stage Construction Details
- Temporary Concrete Barrier
- Superstructure
- Superstructure Details
- Bridge Approach Slab Details
- Steel Railing Type CO-10 10 Structural Steel
- Structural Steel Details
- West Abutment
- East Abutment 13
- Pier Details
- Metal Shell Pile Details
- Bar Splicer Assembly And Mechanical Splicer Details

HOWLAND CREEK BUILT 20 BY WHITESIDE COUNTY SEC. 17-00228-00-BR DIXON AVE CH 3 STA. 112+06.00 STR. NO. 098-3079 LOADING HL-93

> NAME PLATE See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Granular Backfill for Structures	Cu. Yd.		56	56
Stone Riprap, Class A4	Sq. Yd.		650	650
Filter Fabric	Sq. Yd.		650	650
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		288	288
Cofferdam Excavation	Cu. Yd.		430	430
Concrete Structures	Cu. Yd.		259.0	259.0
Bridge Deck Grooving	Sq. Yd.	626		626
Protective Coat	Sq. Yd.	738		738
Erecting Superstructure	Sq. Ft.	6175		6175
Reinforcement Bars, Epoxy Coated	Pound	62,100	22,350	84,450
Bar Splicers	Each		400	400
Furnishing Metal Shell Piles 14" x 0.250"	Foot		1415	1415
Driving Piles	Foot		1415	1415
Pile Shoes	Each		42	42
Test Pile Metal Shells	Each		4	4
Temporary Sheet Piling	Sq. Ft.		435	435
Steel Railing, Type CO-10	Foot	277		277
Name Plates	Each	1		1
Anchor Bolts, 1''	Each		108	108
Geocomposite Wall Drain	Sq. Yd.		90	90
Pipe Underdrains for Structures 4"	Foot		180	180
Cofferdam Type 2 - Location 1	Each		1	1
Cofferdam Type 2 - Location 2	Each		1	1
Seal Coat Concrete	Cu. Yd.		238	238
Concrete Superstructure	Cu. Yd.	156.3		156.3
(Approach Slab)	Cu. Tu.	156.5		156.5
Concrete Superstructure	Cu. Yd.	2,2		2.2
Polymer Modified Cement Mortar	Sq. Ft.	692		692

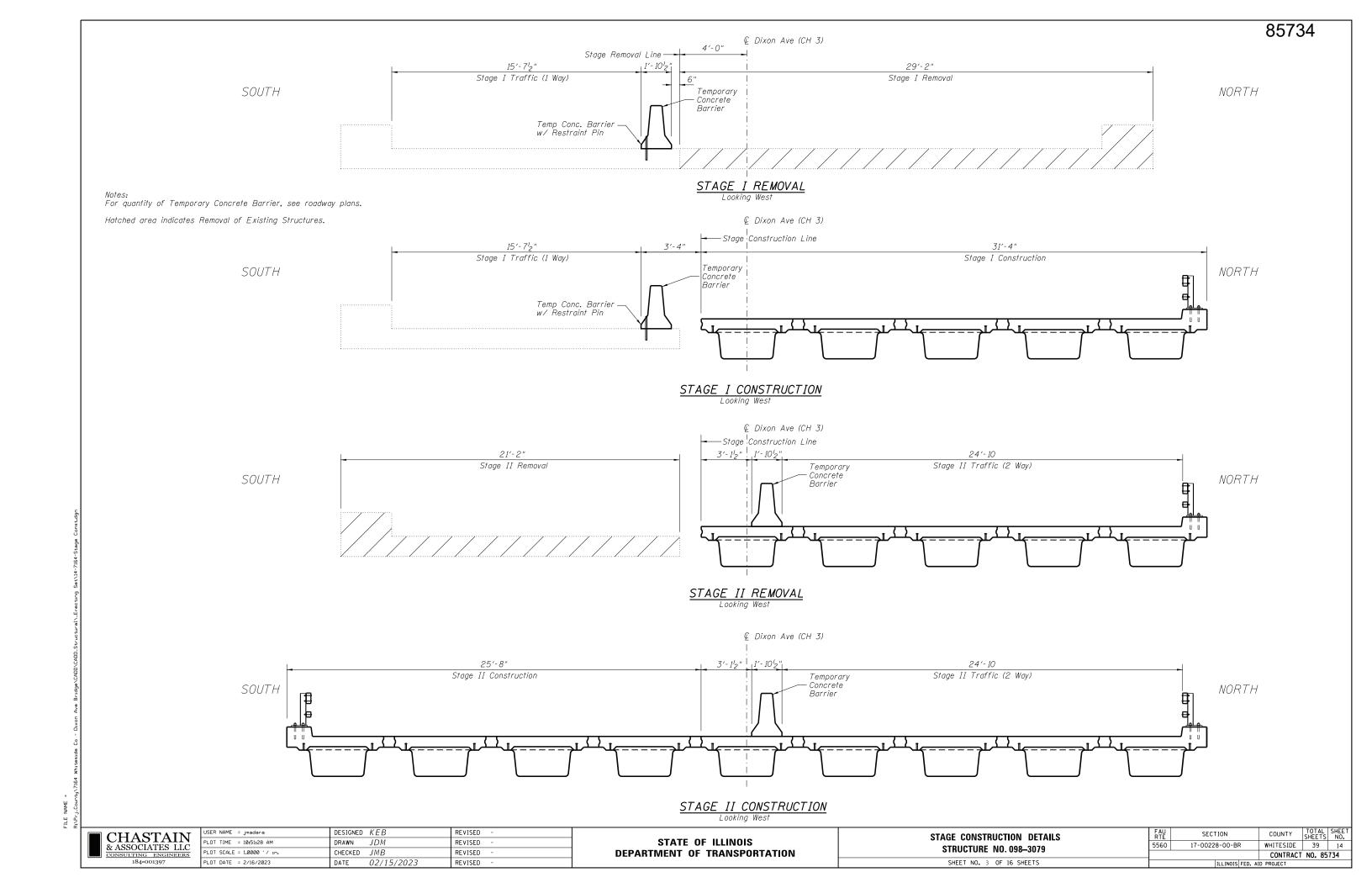
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

G	GENERAL DATA									-
STRUC	TRUCTURE NO. 098-3079									
SHEET	NO.	2	OF	16	SHEETS					_

SECTION COUNTY 17-00228-00-BR WHITESIDE 39 13 CONTRACT NO. 85734

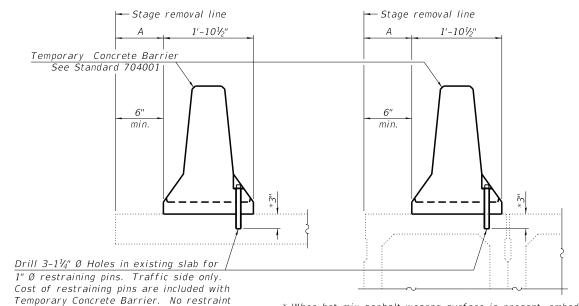


when "A" is greater than 3'-1".

barrier shall be restrained to the new slab according

to Detail I, II or III. No restraint is required

NEW SLAB OR NEW DECK BEAM



 * When hot-mix asphalt wearng surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

US Std. 1½16" I.D. x 2½" O.D.
x approx. 8 guage thick washer
1" Ø pin

RESTRAINING PIN

EXISTING SLAB

SECTIONS THRU SLAB OR DECK BEAM

is required when "A" is greater than 3'-1".

Notes

Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate © of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than 1½", the wood block shall be omitted

and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

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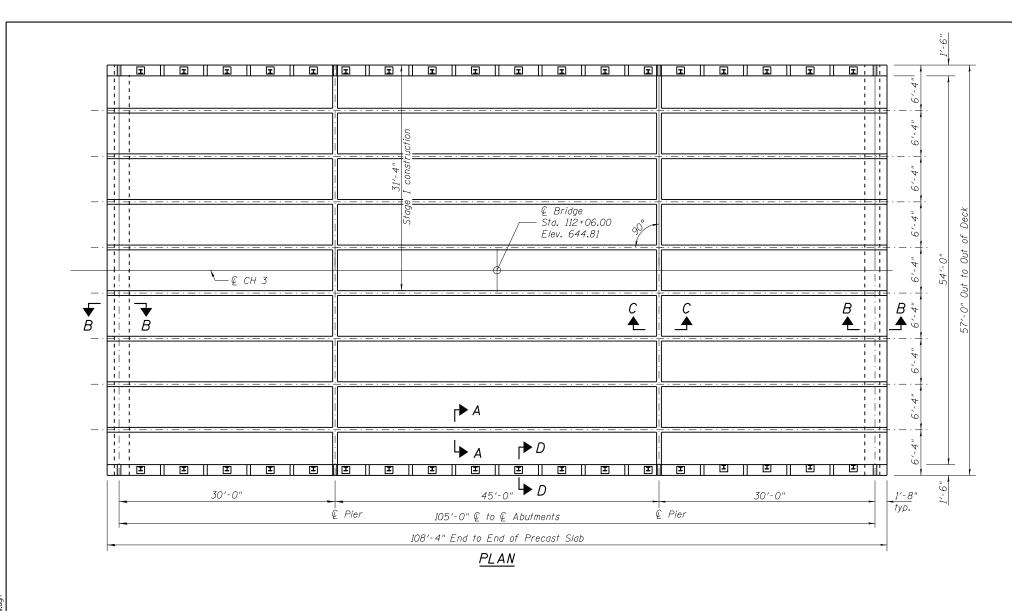
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 098-3079

SHEET NO. 4 OF 16 SHEETS

Bridge\CADD\CADD_Structurel_Ere

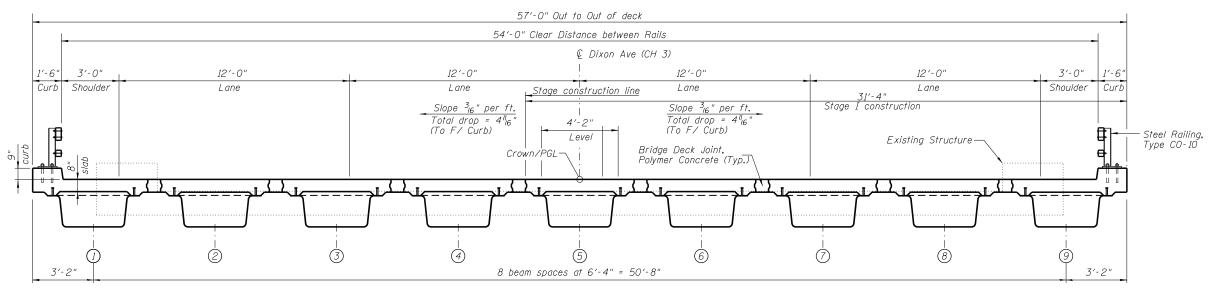
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MINIMUM BAR LAP #5 bar = 3'-6" 85734

Notes.

- 1. See Sheet 6 of 16 for superstructure details and Bill of Material.
- 2. See Sheet 6 of 16 for Section A-A, Section B-B, Section C-C, and diaphragm details.
- 3. See Sheet 9 of 16 for railing details.

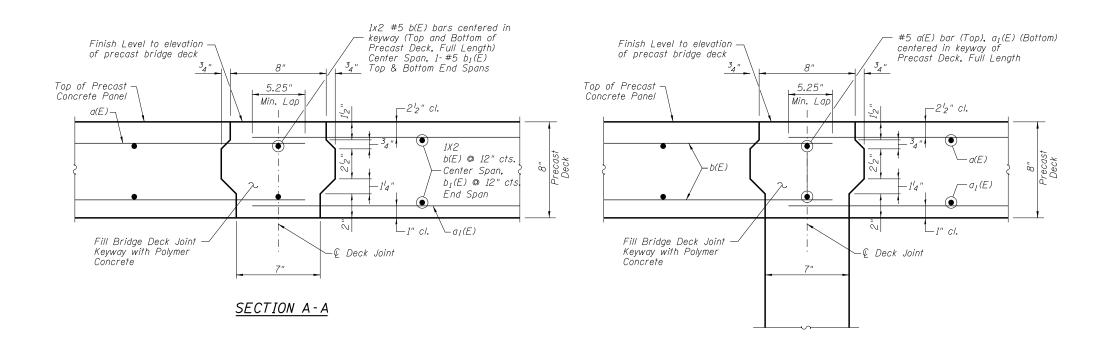


CROSS SECTION (Looking Up Station)

& ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 098-3079
SHEET NO. 5 OF 16 SHEETS



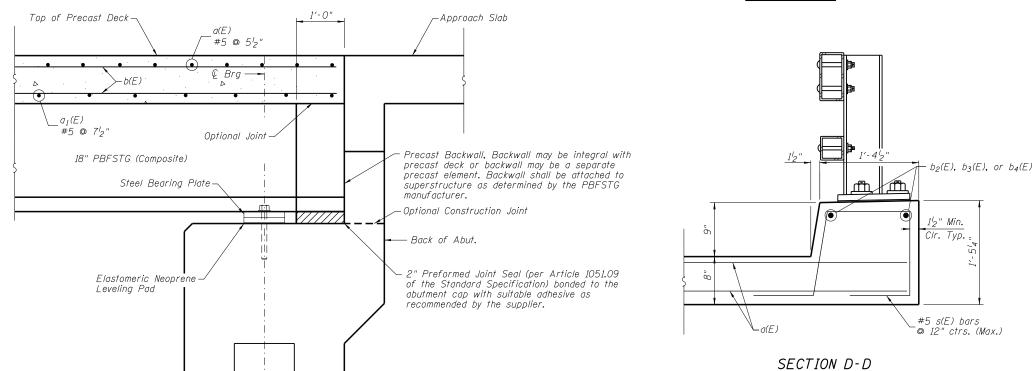
PRECAST DECK REINFORCEMENT BAR LIST

Bar	No.	Size	Length	Shape
a(E)	2178	#5	6'-9"	
a1(E)	1611	#5	6'-9"	
b(E)	284	#5	24'-6"	
b1(E)	284	#5	32'-3"	
b2(E)	8	#5	4'-10"	
b3(E)	56	#5	5′-2"	
b4(E)	8	#5	3′-8"	
s(E)	200	#5	5′-1"	

Notes:
All Reinforcement bars in Precast Concrete Deck are included in PBFSTG System and shall be designed per PBFSTG manufacturer.

Bars shown in precast panels are minimum required.

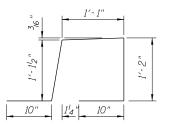
SECTION C-C



BILL OF MATERIAL

Item	Unit	Quantity
Bridge Deck Grooving	Sq. Yd.	626
Protective Coat	Sq. Yd.	738
Reinforcement Bars, Epoxy Coated	Pound	44,890
Erecting Superstructure	Sq. Ft.	6175
Polymer Modified Cement Mortar	Sq. Ft.	692

* For information only. Not included in Total Bill of Materials or Summary of Quantities



BAR s(E)

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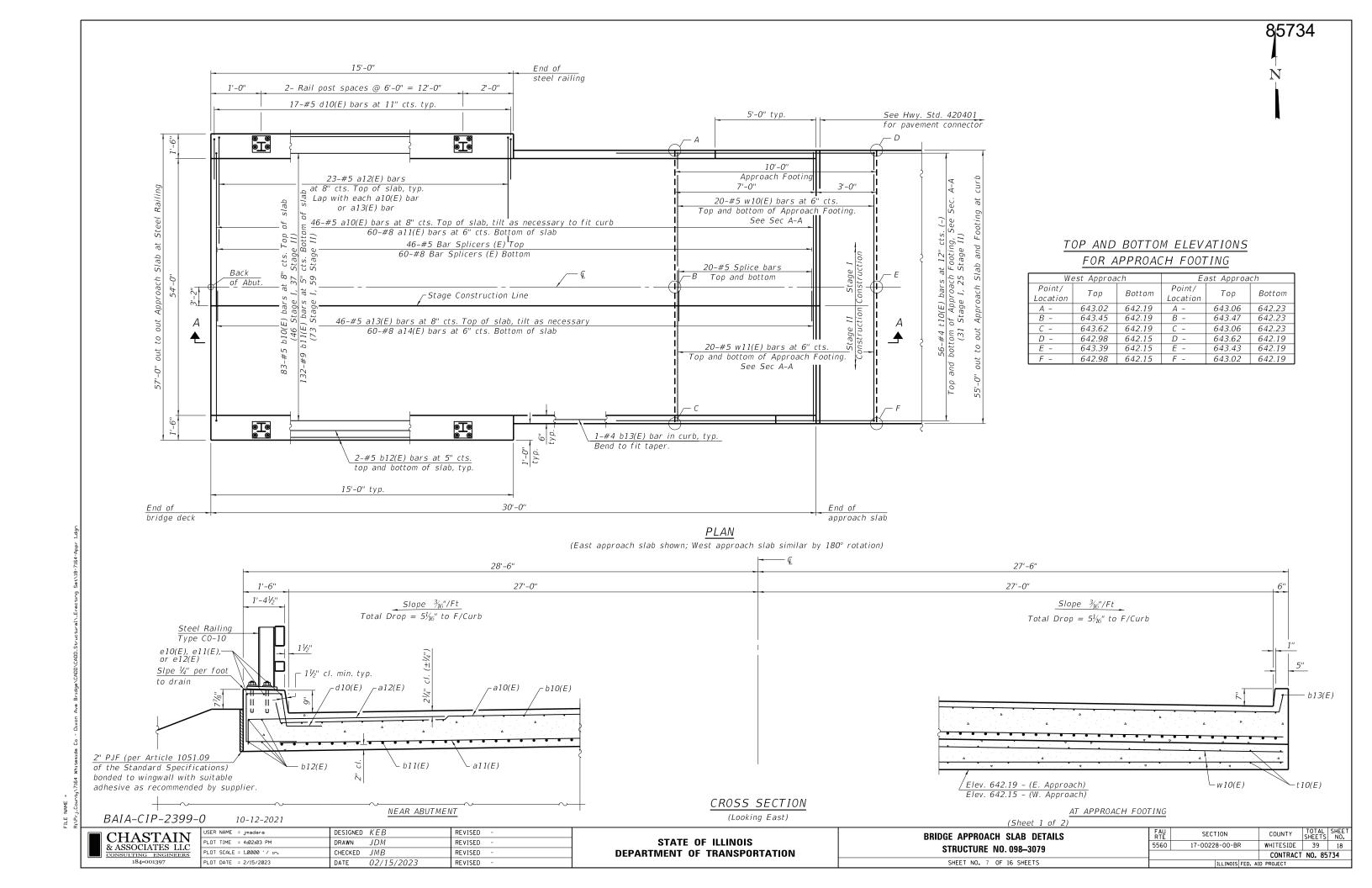
SECTION B-B (Dimensions are at Rt. \triangle 's)

© Abut., bearings and piles

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

				DETAILS 98–3079	
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	ILLINOIS FE	D. Al	D PROJECT		
			CONTRACT	NO. 85	734
5560	5560 17-00228-00-BR		WHITESIDE	39	17
F AU RTE			COUNTY	TOTAL SHEETS	SHEET NO.



INSIDE ELEVATION OF RAILING AND CURB

Notes

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

Curb concrete under railing shall be paid for as Concrete Superstructure.

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

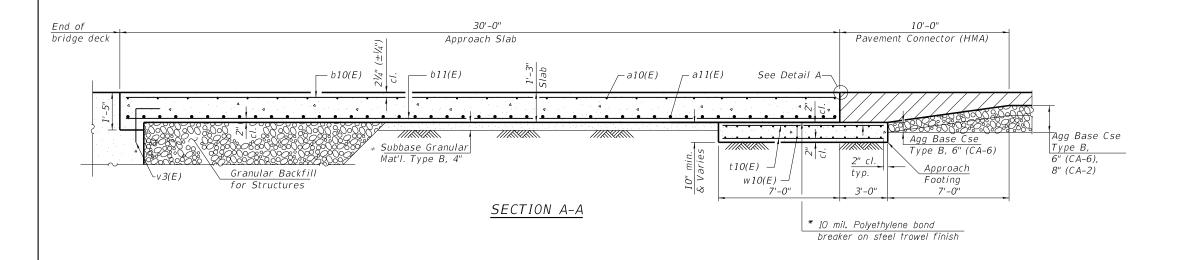
Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

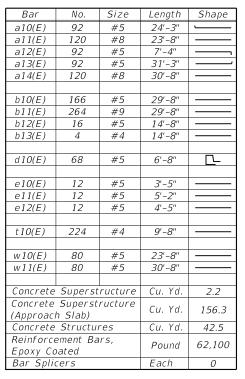
Cost of excavation for approach footing included with Concrete Structures.

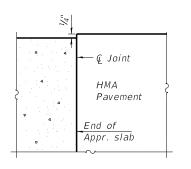
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 16.

For railing details, see sheet 9 of 16.



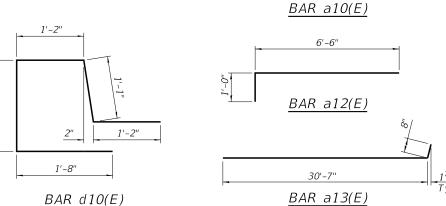
TWO APPROACHES BILL OF MATERIAL





<u>DETAIL A</u>

- * Cost included with Concrete Superstructure (Approach Slab).
- ** Per manufacturer recommendations



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CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397

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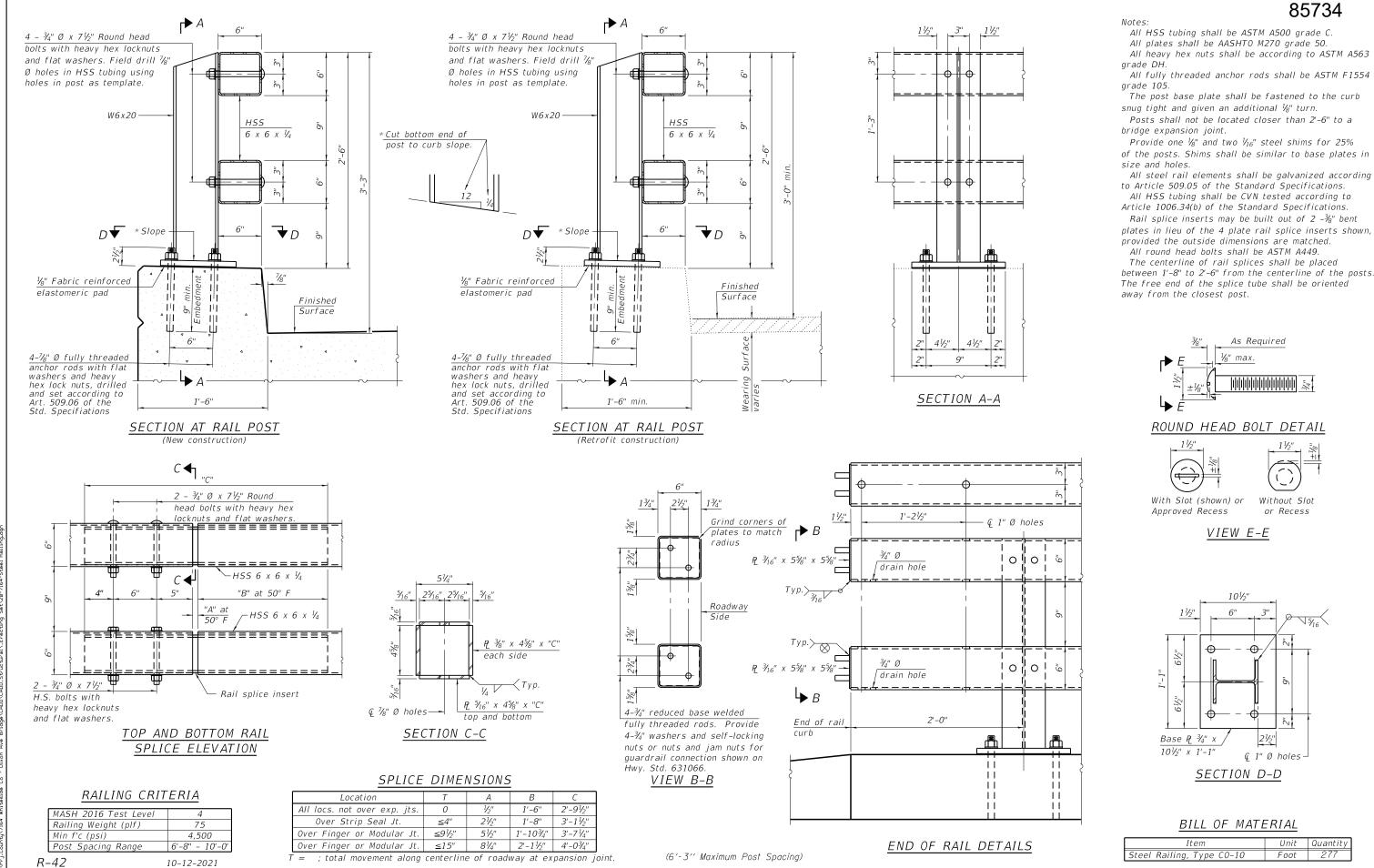
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

(Sheet	2 of 2)
BRIDGE APPROAG	CH SLAB DETAILS
STRUCTURE	NO. 098-3079
SHEET NO. 8	OF 16 SHEETS

23'-7"

	ILLINOIS FED. A			
		CONTRACT	NO. 85	734
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FILE NAME =



STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

F A U R T E

5560

STEEL RAILING, TYPE CO-10

STRUCTURE NO. 098-3079

SHEET NO. 9 OF 16 SHEETS

SECTION

17-00228-00-BR

COUNTY

WHITESIDE 39 20

CONTRACT NO. 85734

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& ASSOCIATES LLC

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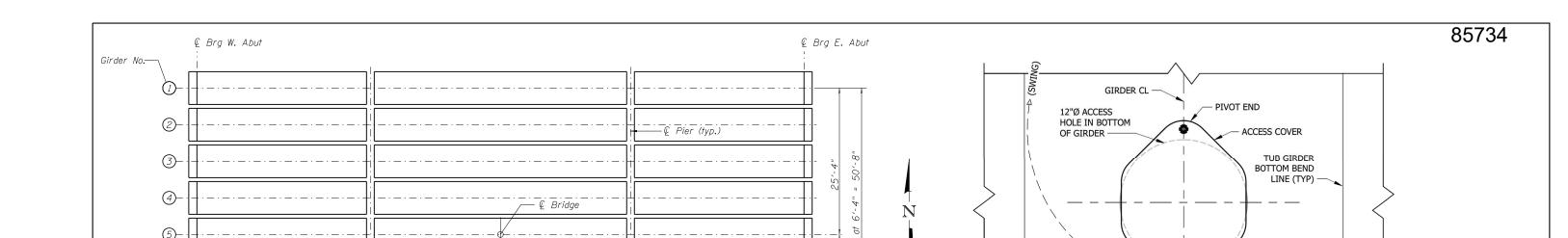
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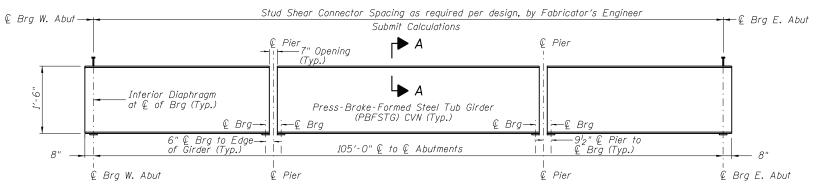
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PLAN

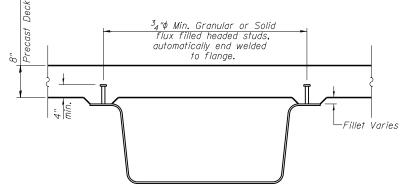
105'-0" € to € Abutments

PBFSTG CVN (Composite) (Typ.)



GIRDER ELEVATION

"CVN" denotes Charpy V-Notch impact energy requirements, Zone 2



SECTION A-A

Interior Diaphragm (Typ.)

30'-0"

₽ Pier

NOTES:

All primary members (Tub Girders) shall be A572 grade 65. All secondary members shall be M270 grade 50.

30′-0"

₽ Pier

For additional structural steel details see sheet 11 of 16. All girders shall be braced for stability during girder installation as

required per Manufacturer.
"CVN" denotes Charpy-V-Notch impact energy requirements, Zone 2. All Structural Steel and H.S. Bolts shall be galvanized according to the

Special Provisions.

NOTES:

- SWING END

1-1/4"Ø WEEP HOLE COVERED WITH SCREENING (TYP)

1/2" DIA. HOLE (TYP.)

3/8" x 1" BOLT WITH WASHER

TUB GIRDER (TYP)

<u>PLAN</u>

SWING END PIVOT END -

ACCESS COVER -

3/8" x 1-1/2" SCKT HD BOLT WITH WASHERS AND NUT

SECTION

INSPECTION HATCH DETAIL

Hatch cover shall be oriented on the inside girder so that the cover plate fits over the hole.

Tighten bolt, but allow for movement.

Every Tub Girder shall have two inspection hatches, one each end at $\pm 3'$ from end of Tub Girder.

Location	€ Brg. E. Abut.	© Brg. W. Abut.
Girder 1		
Girder 2		
Girder 3		
Girder 4		
Girder 5		
Girder 6		
Girder 7		
Girder 8		
Girder 9		
	•	•

TOP OF WEB ELEVATIONS

(For fabrications only)

(Does not include Dead Load Deflection)
Top of Web Elevations to be determined/filled
out by Designer/Manufacturer if required.

NOTE:

Top of Web Elevations Table to be filled out by fabricator's engineer & shall provide calculations & information to Chastain & Associates LLC as part of the Shop Drawing Submittals.

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

FAU RTE	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
5560	5560 17-00228-00-BR		WHITESIDE	39	21
			CONTRACT	NO. 85	734
	ILLINOIS	FED. Al	D PROJECT		

io - Dixon Ave Bridge\CADD\CADD_Structure]_Erecting Set\21-716

County\7164 Whiteside Co - Div

Two $\frac{1}{2}$ in, adjusting shims shall be provided for each bearing in addition to all other plates or shims and places as shown on bearing

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

The structural steel plates of the fixed bearings, including pintles (if applicable), shall conform to the requirements of AASHTO M270 Grade

Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is

"CVN" denotes Charpy-V-Notch impact energy requirements, Zone 2. All primary members (Tub Girders) shall be A572 Grade 65. All secondary members shall be M270 Grade 50.

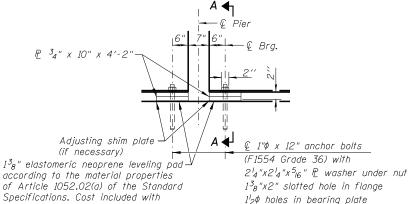
All structural steel and H.S. bolts shall be galvanized according to the Special Provisions.

Bearing plate width is based on plate layout along the £ of bearing.

ESTIMATED STEEL SECTION

- Abutment width allows for bearing plate aligned perpendicular to girder. Adjustment is allowed if needed for design of PBFSTG.
- Chastain and & Associates LLC design includes substructure elements ** only. Abutment design and details are based on assumed typical reactions and dimensions. Contractor shall verify that final design and details are compatible with the selected superstructure prior to construction. The contractor shall employ a Structural Engineer licensed in the State of Illinois to provide alternate abutment designs as required at no additional cost to the contract.

Fabricator's Structural Engineer shall provide information for all table spaces and shall provide calculations & information to Chastain & Associates LLC as part of the shop drawing submittals.



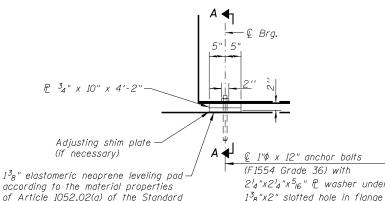
All bearing plates, anchor bolts, nuts, washers, and pintles (if applicable) shall be galvanized according to AASHTO M111 or M232 as applicable.

1'-11"

└── @ Girder

1'-11"

ELEVATION AT PIER



 $2\frac{1}{4}$ " $x2\frac{1}{4}$ " x^{5} ₁₆" P washer under nut 1^{3}_{8} "x2" slotted hole in flange $1/2\phi$ holes in bearing plate

SECTION A-A (Horiz, dimensions at Rt. △'s to Ç Girder)

ELEVATION AT ABUTMENT

FIXED BEARINGS AT ABUTMENTS

(18 required)

INTERIOR GIRDER MOMENT TABLE 0.5 End Span 0.5 Ctr. Spar (in⁴) (in⁴) (n) (in⁴) Ic (3n) (in^3) (in^3) (n) (in^3) Sc (3n) (k/')MDC1 ('k) DC2 (k/') MDC2 ('k) (k/') MDW ('k) LDF MLL + IM('k) MU (Strength I) ('k) ¢f M∩ ('k) s DC1 (ksi) s DC2 (ksi) s DW (ksi) s (LL+IM) (ksi) fs (Service II) (ksi) 0.95Rh Fvf (ksi) s (Total)(Strength I) (ksi) ¢f Fn (ksi) (k)

INTERIOR GIRDER REACTION TABLE						
		A but	ment	Pi	er	
			Interior Exterior		Exterior	
LLDF		-	-	-	-	
0CF		-	-	-	-	
RDC1	(k)	-	-	-	-	
RDC2	(k)	-	-	-	-	
RDW	(k)	-	-	-	-	
RLL	(k)	-	-	-	-	
RIM	(k)	-	-	-	-	
RTotal	(k)	-	-	-	-	

*** Information to be provided by PBFSTG manufacturer. See Special Provisions.

ESTIMA	TED GIRDER	REACTION TABLE	
		Abutment	Pier
		Interior/Exterior	Interior/Exterior
RDC1	(k)	-	-
RDC2	(k)	-	-
RDW	(k)	-	-
RLL	(k)	-	-
RIM	(k)	-	-
RTotal	(k)	-	-

- $I_{\mathcal{S}}$, $S_{\mathcal{S}}$: Non-composite moment of inertia and section m steel section used for computing fs (Total-Strength I, and Service II) due to non-composite dead loads (in.4 and in.3).
- $I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.4 and in.3).
- $I_c(3n)$, $S_c(3n)$; Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.4 and in.3).
- Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.4 and in.3).
 - DC1: Un-factored non-composite dead load (kips/ft.).
 - Mpc: Un-factored moment due to non-composite dead load (kip-ft.). DC2: Un-factored long-term composite (superimposed excluding future
 - wearing surface) dead load (kips/ft.). MDC2: Un-factored moment due to long-term composite (superimposed
 - excluding future wearing surface) dead load (kip-ft.). DW: Un-factored long-term composite (superimposed future wearing
 - surface only) dead load (kips/ft.). Mow: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 - M& + IM: Un-factored live load moment plus dynamic load allowance (impact) $(kip - ft_*)$
- M_u (Strength I): Factored design moment (kip-ft.).
 - 1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M& + IM $\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft).
 - f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi). MDCI / Snc
 - fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
 - $M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.
 - fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
 - M_{DW} / $S_c(3n)$ or M_{DW} / $S_c(cr)$ as applicable.
 - f_s (4+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
 - $M4 + IM / S_c(n)$ or $M_{DW} / S_c(cr)$ as applicable.
- fs (Service II): Sum of stresses as computed below (ksi). fsDC1 + fsDC2 + fsDW + 1.3 fs (& + IM)
 - 0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
- $f_{\mathcal{S}}$ (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
 - 1.25 (fsDC1 + fsDC2) + 1.5 fsDW + 1.75 fs (& + IM)
 - $\phi_f F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
 - V_f: Maximum factored shear range in span computed according to Article 6.10.10.
 - LLDF: Live Load Distribution Factor
 - OCF: Obtuse Correction Factor

Information is provided on this sheet that is not applicable to Erecting Superstructure

CHASTAIN & ASSOCIATES LLC

SER NAME = jmadara DESIGNED KEB REVISED .OT TIME = 4:15:34 PM DRAWN JDM REVISED OT SCALE = 8.0000 '/ in. CHECKED JMB REVISED PLOT DATE = 2/15/2023 DATE 02/15/2023 REVISED

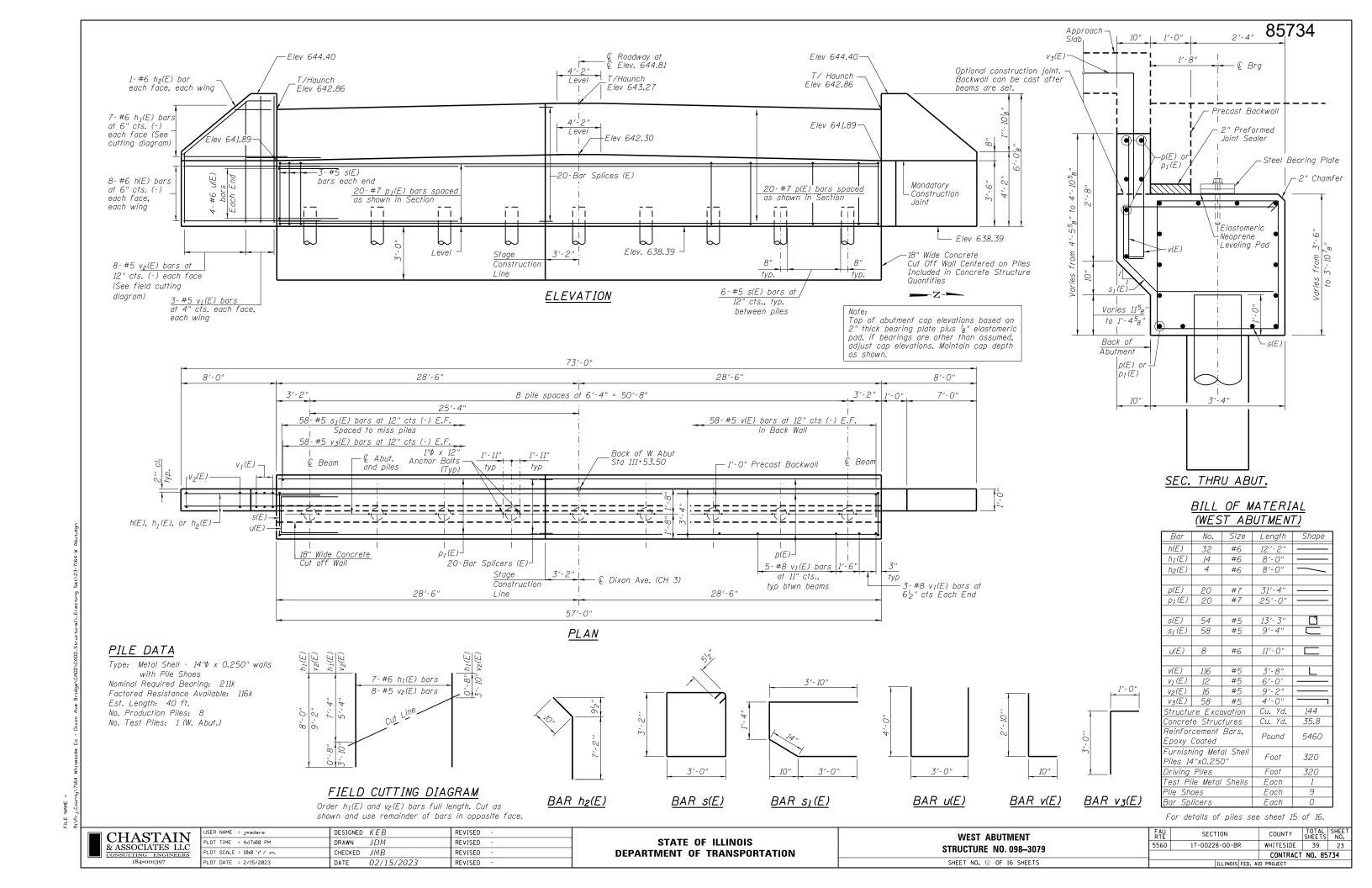
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** STRUCTURAL STEEL DETAILS **STRUCTURE NO. 098-3079** SHEET NO. 11 OF 16 SHEETS

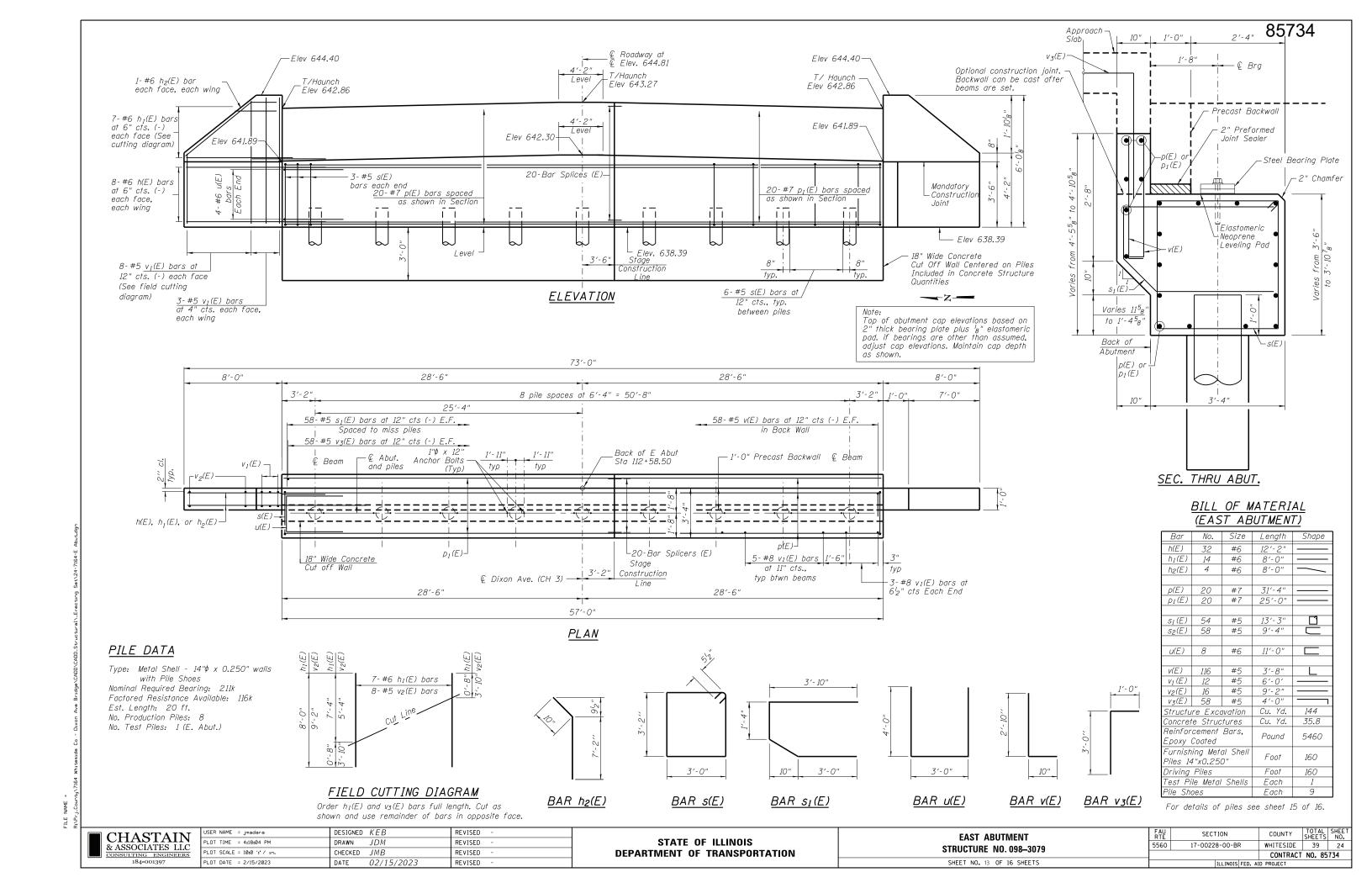
SECTION COUNTY 17-00228-00-BR WHITESIDE 39 22 5560 CONTRACT NO. 85734

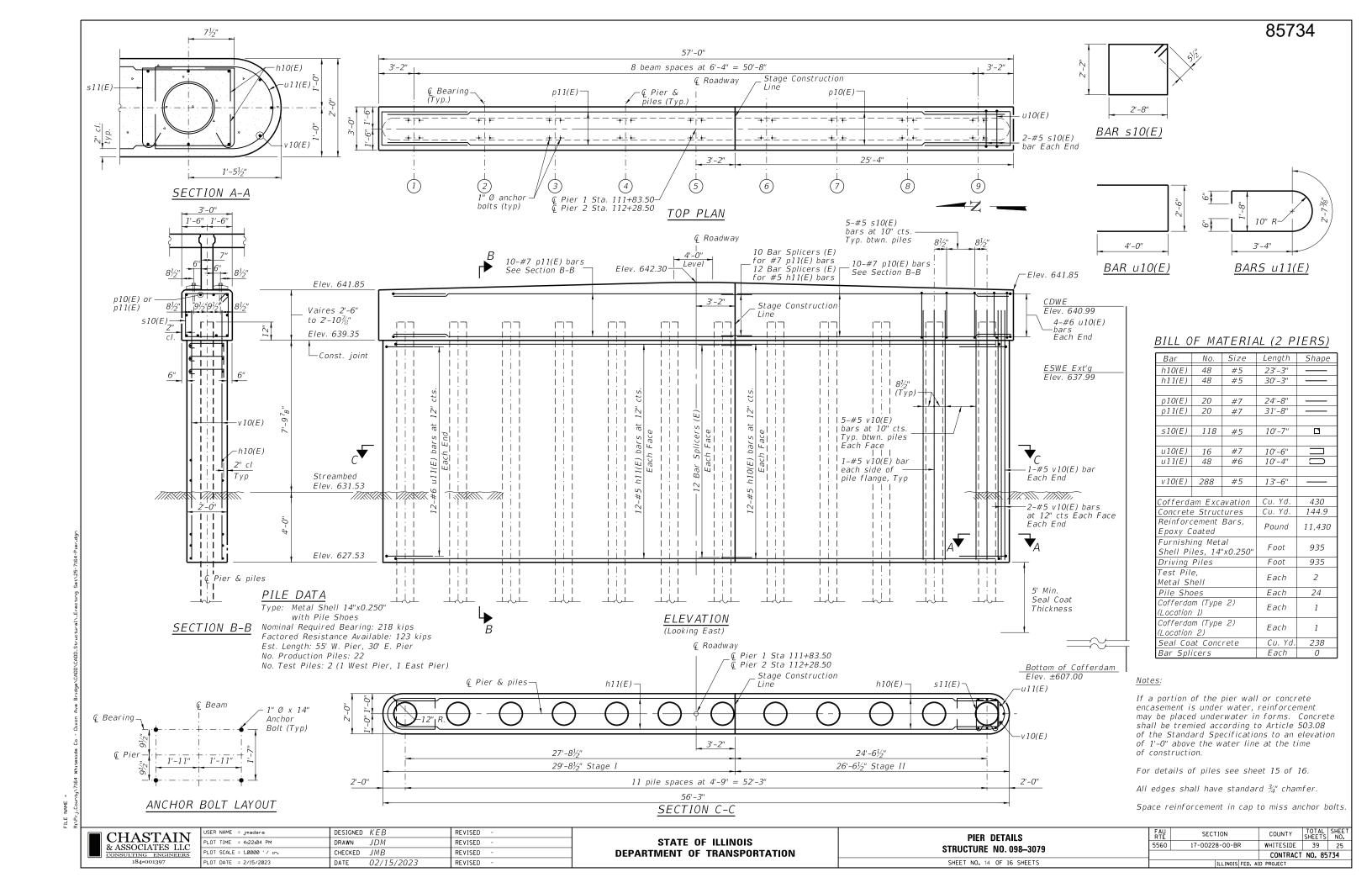
PRESTG.

PBFSTG.

Specifications, Cost included with









METAL SHELL PILE TABLE

Designation	Wall	Weight per foot (Lbs./ft.)	Inside
and outside	thickness		volume
diameter	t		(yd. ³/ft.)
PP14	0.250"	36.71	0.037

See Detail A, typ. 5/16 Cut square for tight fit (within 0.01") before welding Metal shell piles See Detail A Metal shell pile

DETAIL A

<u>-</u>

field weld

Shop or

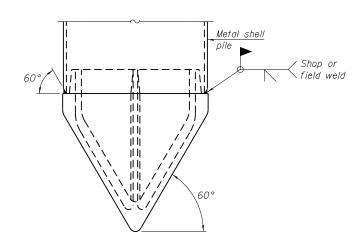
s = t - 1/16"

END PLATE ATTACHMENT

3/4" End plate

Metal shell

pile



PILE SHOE ATTACHMENT

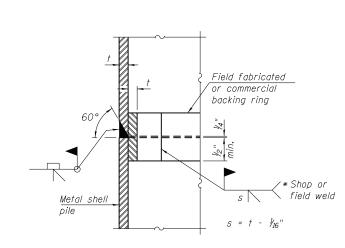
(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

WELDED COMMERCIAL SPLICE

Notes:

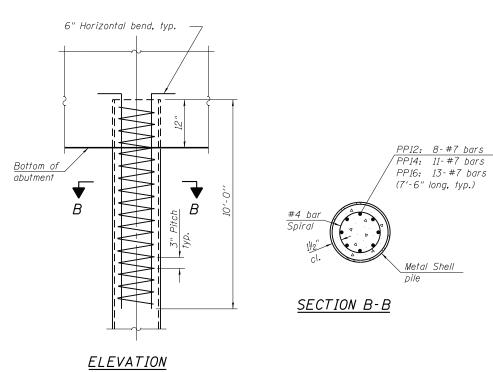
The 1/8" x 1/2" min. fill bar may be constructed of

2 bars with a 1/8" max. gap between them. Pile segments shall be driven to solid contact with splicer before welding.



COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



REINFORCEMENT AT ABUTMENTS

Note:

The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

CHASTAIN
& ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

1-1-2020				
USER NAME = jmadara	DESIGNED	KEB	REVISED	-
PLOT TIME = 4:23:12 PM	DRAWN	JDM	REVISED	-
PLOT SCALE = 2.0000 '/ in.	CHECKED	JMB	REVISED	-
PLOT DATE = 2/15/2023	DATE	02/15/2023	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS	F AU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 098-3079	5560	17-00228-00-BR	WHITESIDE	39	26
3111001011L NO. 030-3073			CONTRACT	NO. 85	734
SHEET NO. 15 OF 16 SHEETS		ILLINOIS FED. AI	D PROJECT		

FILE NAME =

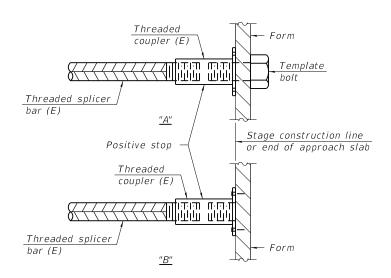
STANDARD BAR SPLICER ASSEMBLY PLAN

(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

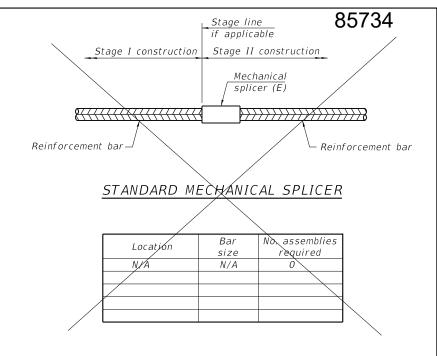
Location	Bar size	No. assemblies required	Minimum Iap length
East Abut.	#7	20	4'-2"
West Abut.	#7	20	4'-2"
Appr. Slab	#5	92	3'-6"
Appr. Slab	#8	120	5'-0"
Appr. Ftg	#5	80	3'-6"
East Pier	#7	10	4'-2"
West Pier	#5	24	3'-6"
East Pier	#7	10	4'-2"
West Pier	#5	24	3'-6"



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for

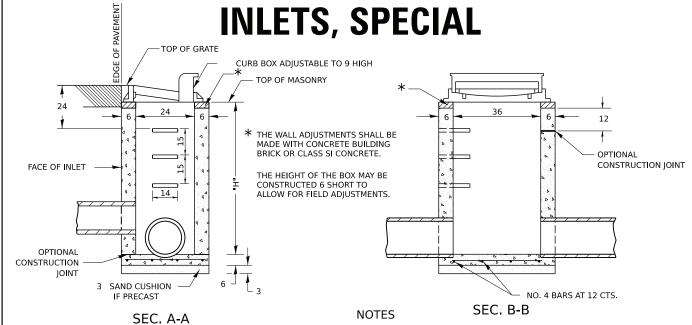
CHASTAIN & ASSOCIATES LLC

1-1-2020 SER NAME = jmadara DESIGNED KEB REVISED OT TIME = 11:58:14 AM DRAWN JDM REVISED OT SCALE = 2.0000 '/ in. CHECKED JMB REVISED PLOT DATE = 2/27/2023 DATE 02/15/2023 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 098-3079 SHEET NO. 16 OF 16 SHEETS

SECTION COUNTY 5560 17-00228-00-BR WHITESIDE 39 27 CONTRACT NO. 85734

BSD-1



A A A

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

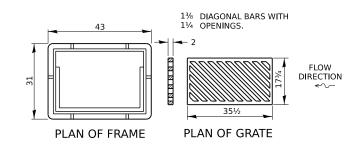
ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

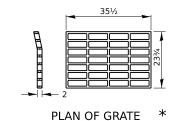
WEIGHT OF CAST IRON FRAME & GRATE = 530 lbs. \pm . STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 5 ft.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 psi AFTER 28 DAYS.

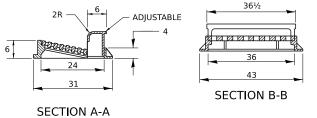
THE CONTRACT UNIT PRICE EACH FOR INLETS, SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.

DETAIL OF FRAME & GRATE





* THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

INLETS, SPECIAL

CHASTAIN
& ASSOCIATES LLC
CONSULTING ENGINEERS

REVISED - 1-05-16 REVISED - 6-27-14

r	USER NAME = jmadara	DESIGNED	-	ARF	REVISED -
		DRAWN	-	JDM	REVISED -
-	PLOT SCALE = 0.0833 / in.	CHECKED	-	TWO	REVISED -
<u>-</u>	PLOT DATE = 2/16/2023	DATE	-	02/15/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

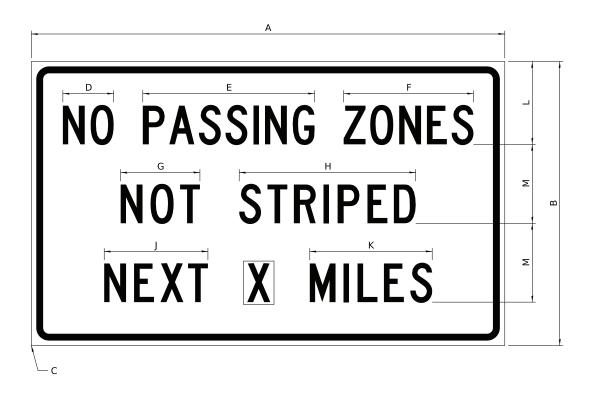
10.2

SCALE:

INLETS, SPECIAL							SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
IDOT DISTRICT 2					5560	17-00228-00-BR			WHITESIDE	39	28	
	ווטטו	DISTRICT								CONTRACT	NO.	
SHEET	OF	SHEETS	STA.	TO STA.	PRO	JECT	7164	ILLINOIS	FED. All	D PROJECT		

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD G20–I100



COLOR LEGEND AND BORDER BACKGROUND

BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE					[OIMEN	ISIONS	5				
JIGN SIZE	A B C D E F G H J K L I								М			
60 x 36	60.00	36.00	2.25	6.4	21.80	16.40	10.00	22.40	13.20	15.50	10.50	10.00

SIGN SIZE	SER	IES BY L	INE	MARGIN	BORDER	
SIGN SIZE	1	2	3	MARGIN	BONDEN	
60 x 36	5C	5C	5C	0.625	0.875	

Sign not to scale

GENERAL NOTES

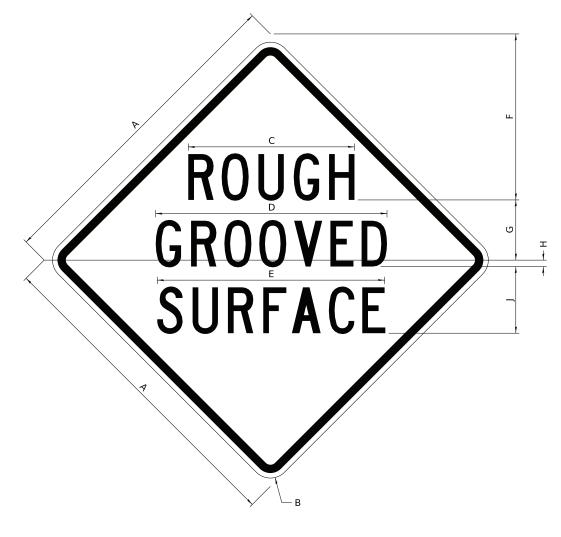
All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

ILLINOIS STANDARD W8–I107



COLOR BAC

LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE				DIM	IENSIC	ONS			
SIGN SIZE	A B C D E F G H							J	
48 x 48	48.00	3.00	25.00	34.80	34.20	24.94	9.00	1.00	10.00

SIGN SIZE	SER	IES BY L	INE	MARGIN	BORDER
SIGN SIZE	1	2	3	MARGIN	BONDEN
48 x 48	7C	7C	7C	1.250	0.750

Sign not to scale

CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS

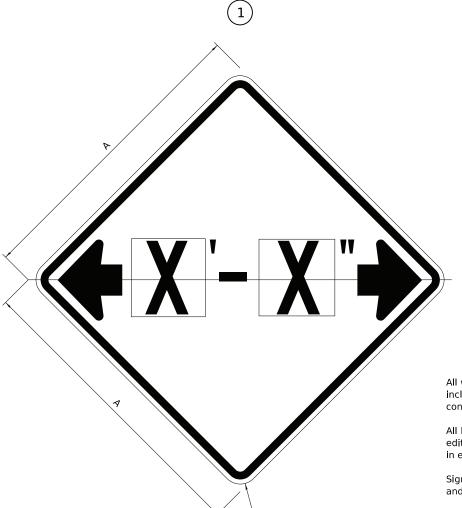
USER NAME = jmadara	DESIGNED	-	ARF	REVISED	-	3-02-16
	DRAWN	-	JDM	REVISED	-	
PLOT SCALE = 0.0833 / in.	CHECKED	-	TWO	REVISED	-	
PLOT DATE = 2/15/2023	DATE	-	02/15/2023	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	F.A.U. SECTION				COUNTY						
	WORK ZONE DETAILS IDOT DISTRICT 2								3-00-BR		WHITESIDE
	וטטו טואוהוטו צ										CONTRAC
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	PRO.	JECT 7	7164	ILLINOIS	FED. A	D PROIECT

WORK ZONE SIGN DETAILS

ILLINOIS STANDARD W12–I102



GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

COLOR LEGEND AND BORDER BACKGROUND

BLACK FL ORANGE NON-REFLECTORIZED REFLECTORIZED

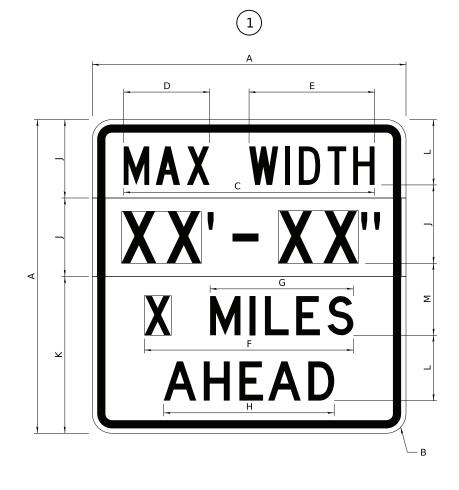
SIGN SIZE	DIMENSIONS				
	Α	В			
48 x 48	48.00	3.00			

Illinois Standard signs W12-I102 and W12-I103 shall be used as described in the special provisions.

SIGN SIZE	SERIES BY LINE	MARGIN	BORDER	
SIGN SIZE	1	MARGIN	BORDER	
48 x 48	12C	0.750	1.250	

Sign not to scale

ILLINOIS STANDARD W12–I103



COLOR

LEGEND AND BORDER BACKGROUND BACKGROUND (WIDTH) BLACK WHITE FL ORANGE NON-REFLECTORIZED REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS						5					
SIGN SIZE	Α	В	С	D	Е	F	G	Н	J	K	L	М
48 x 48	48.00	3.00	38.40	13.20	19.20	32.00	22.00	26.20	12.00	24.00	10.00	11.00

SIGN SIZE	,	SERIES	BY LINE	MARGIN	BORDER	
SIGN SIZE	1	2	3	4	MARGIN	BORDER
48 x 48	6C	8D	6D	6D	0.750	1.250

Sign not to scale

 $\ensuremath{\mathsf{XX'\text{-}XX''}}$ WIDTH AND X MILES ARE VARIABLE TOP AND BOTTOM OF BACKGROUND WHITE



USER NAME = jmadara	DESIGNED	-	ARF	REVISED	-	3-02-16
	DRAWN	-	JDM	REVISED	-	
PLOT SCALE = 0.0833 '/ In.	CHECKED	-	TWO	REVISED	-	
PLOT DATE = 2/15/2023	DATE	-	02/15/2023	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		WORK	ZONE DET	TAILS	
		IDOT	DISTRICT	2	
A1 E-	CHEET	0.5	CHEETC	CTA	

ALU. SECTION COUNTY TOTAL SHE
560 17-00228-00-BR WHITESIDE 39 30

CONTRACT NO.

WORK ZONE SIGN DETAILS

ROAD CLOSED TO OVERSIZED LOADS



COLOR

LEGEND AND BORDER BACKGROUND

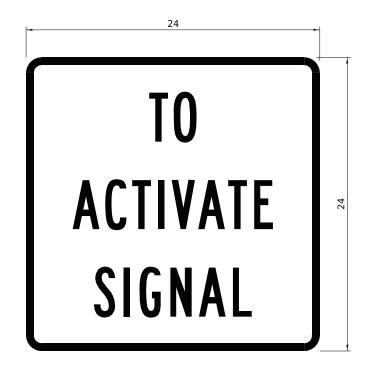
BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border; [NO OVERSIZE -] D; [OVERWEIGHT LOADS] D 85% spacing; [XX MILES AHEAD] D; Table of letter and object lefts.

N 11.7	O 18.1	O 30.0	V 36.2	E 42.8	R 48.4	S 54.4	l 60.7	Z 63.5	E 69.5	- 80.8				
0	٧	E	R	W	E	ı	G	Н	Т	L	0	Α	D	S
2.6	8.6	15.0	20.4	26.2	33.4	38.8	41.3	47.4	53.2	64.5	69.9	75.9	82.9	88.7
X 7.6	X 13.6	M 25.3	 32.3	L 35.1	E 40.6	S 46.2	A 57.9	H 65.1	E 71.4	A 76.6	D 83.7			

Sign not to scale

STOP LINE SIGN FOR TEMPORARY SIGNALS



COLOR

LEGEND AND BORDER BACKGROUND BLACK WHITE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	SERIES BY LINE						
SIGN SIZE	1	2	3				
24 x 24	4C	4C	4C				

Sign not to scale

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book" in effect on the date of invitation for bids.

Signs shall meet the applicable portions of Sections 701 and 720 of the Standard Specifications.

All dimensions are in inches unless otherwise noted.

CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS

USER NAME = jmadara	DESIGNED -	ARF	REVISED	-	3-02-16
	DRAWN -	JDM	REVISED	-	
PLOT SCALE = 0.0833 / In.	CHECKED -	TWO	REVISED	-	
PLOT DATE = 2/15/2023	DATE -	02/15/2023	REVISED	-	

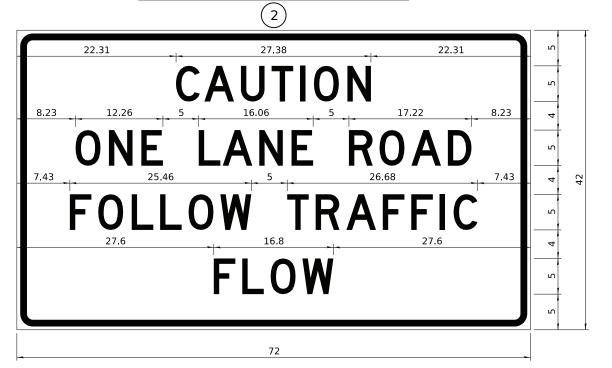
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		WORK	ZONE DET	ΓAILS
		IDOT	DISTRICT	2
AL E.	CHEET	OF	CHEETC	CTA

F.A.U. RTE		SEC	TION	COUNTY	TOTAL SHEETS	SHE	
5560		17-00228	3-00-BR	WHITESIDE	39	31	
					CONTRACT	NO.	
PRO	JECT	7164	ILLINOIS	FED. AI	D PROIECT		

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS

WORK ZONE SIGN DETAILS



COLOR L

LEGEND AND BORDER BACKGROUND

BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

2.25" Radius, 0.88" Border, 0.50" IndenT; [CAUTION] D; [ONE LANE ROAD] D; [FOLLOW TRAFFIC] D; [FLOW] D

2 This sign shall be installed at entrances located between the temporary signals as shown in the staging plans.

Table Of Widths And Spaces

22.31	C 3.36	0.62	A 4.18	0.94	U 3.36	0.94	T 3.04	0.94	l 0.78	1.17	O 3.52	1.17	N 3.36	22.31
-------	-----------	------	-----------	------	-----------	------	-----------	------	------------------	------	-----------	------	-----------	-------

	0		N		Е
8.23	3.51	1.17	3.36	1.18	3.04

		L		Α		N		Е
١	5.00	3.05	0.31	4.18	0.94	3.36	1.17	3.05

	R		0		Α		D	
5.00	3.36	0.93	3.52	0.94	4.18	0.93	3.36	8.23

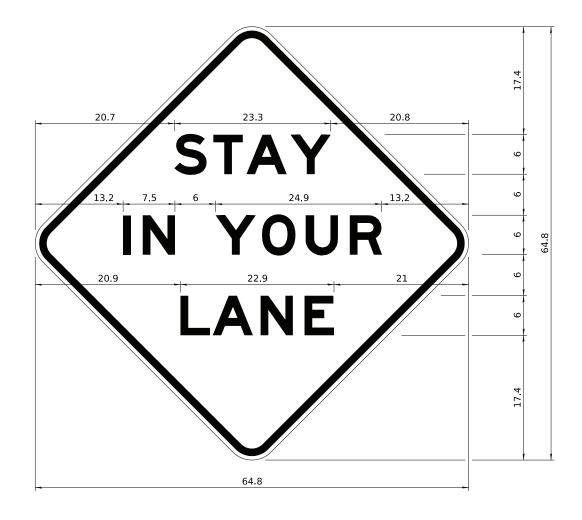
7.43 F	0.94	O.94 3.52 1.17	L 3.04 0.94	L 3.05	O 0.94 3.51	0.94	W 4.37
--------	------	----------------	----------------	-----------	----------------	------	------------------

	Т		R		Α		F		F		J		С	
5.00	3.05	0.94	3.36	0.94	4.18	0.93	3.05	0.94	3.04	0.94	0.78	1.18	3.35	7.43

	F		L		0		W	
27.60	3.05	0.94	3.04	0.94	3.52	0.93	4.38	27.60

Sign not to scale

STAY IN YOUR LANE



COLOR

SCALE:

LEGEND AND BORDER

BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

48.0" across sides 3.8" Radius, 1.0" Border, 0.6" Indent; "STAY" E Mod; "IN YOUR" E Mod; "LANE" E Mod;

Table of Letter and Object Lefts

S T 20.7 26.8	A 31.6	Y 38.0
---------------	---------------	-----------

I N Y	O	U	R
13.2 15.9 26.7	33.9	40.5	46.8

L	Α	N	Е
20.9	25.8	33.1	39.4

Sign not to scale

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS

USER NAME = jmadara	DESIGNED	-	ARF	REVISED	-	3-02-16
	DRAWN	-	JDM	REVISED	-	
PLOT SCALE = 0.0833 / in.	CHECKED	-	TWO	REVISED	-	
PLOT DATE = 2/15/2023	DATE	-	02/15/2023	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

All work to furnish and install these signs shall be included in the cost of the specified traffic control standards and shall not be paid separately.

All Illinois Standard signs shall conform to the latest edition of the "Illinois Standard Highway Signs Book"

Signs shall meet the applicable portions of Sections 701

All dimensions are in inches unless otherwise noted.

in effect on the date of invitation for bids.

and 720 of the Standard Specifications.

WORK ZONE DETAILS								
IDOT DISTRICT 2								
וטטו טואוהוט צ								
	CHEET	OF	CHEETC	СТА	TO CTA		·	

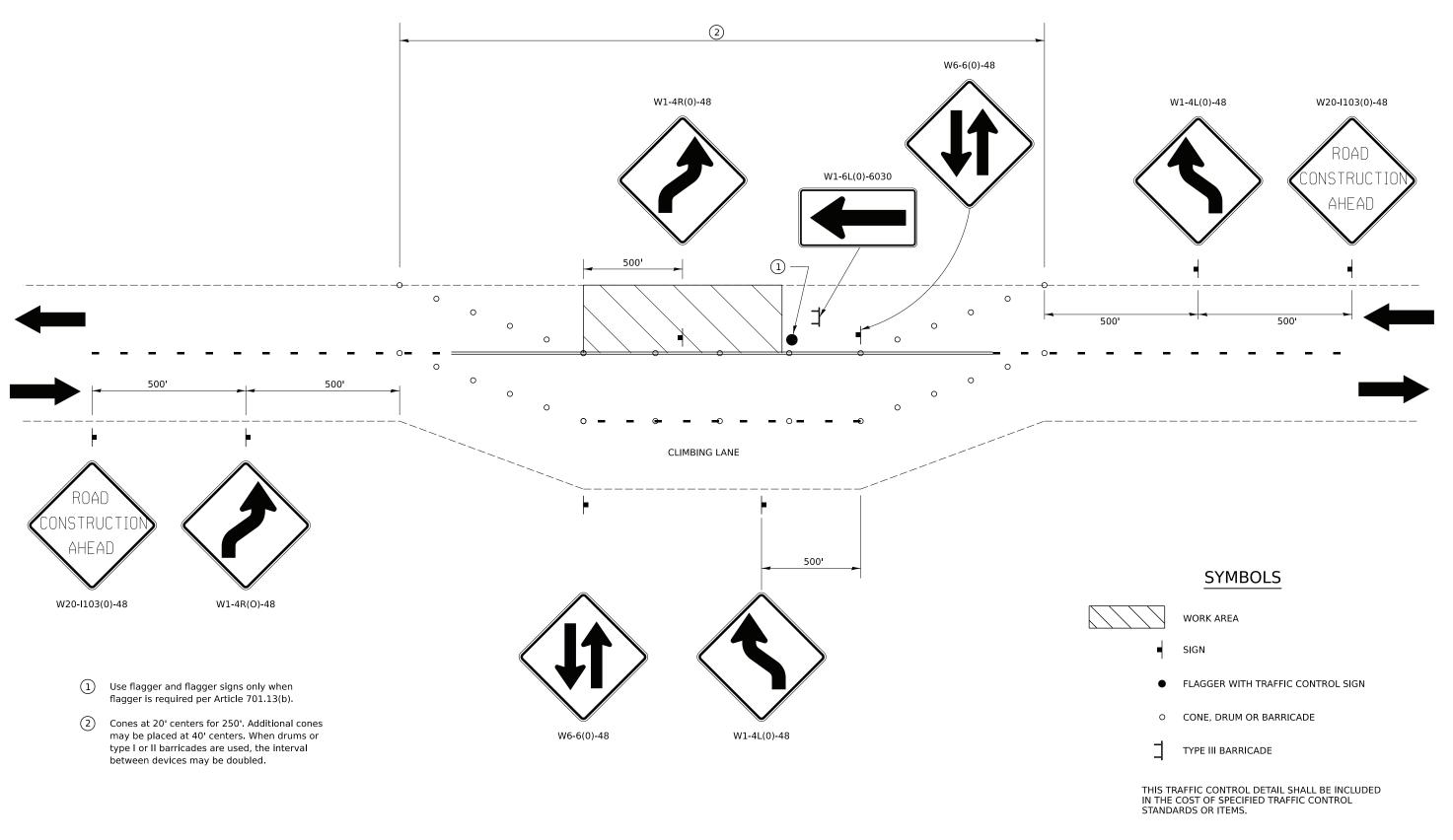
SECTION

17-00228-00-BR

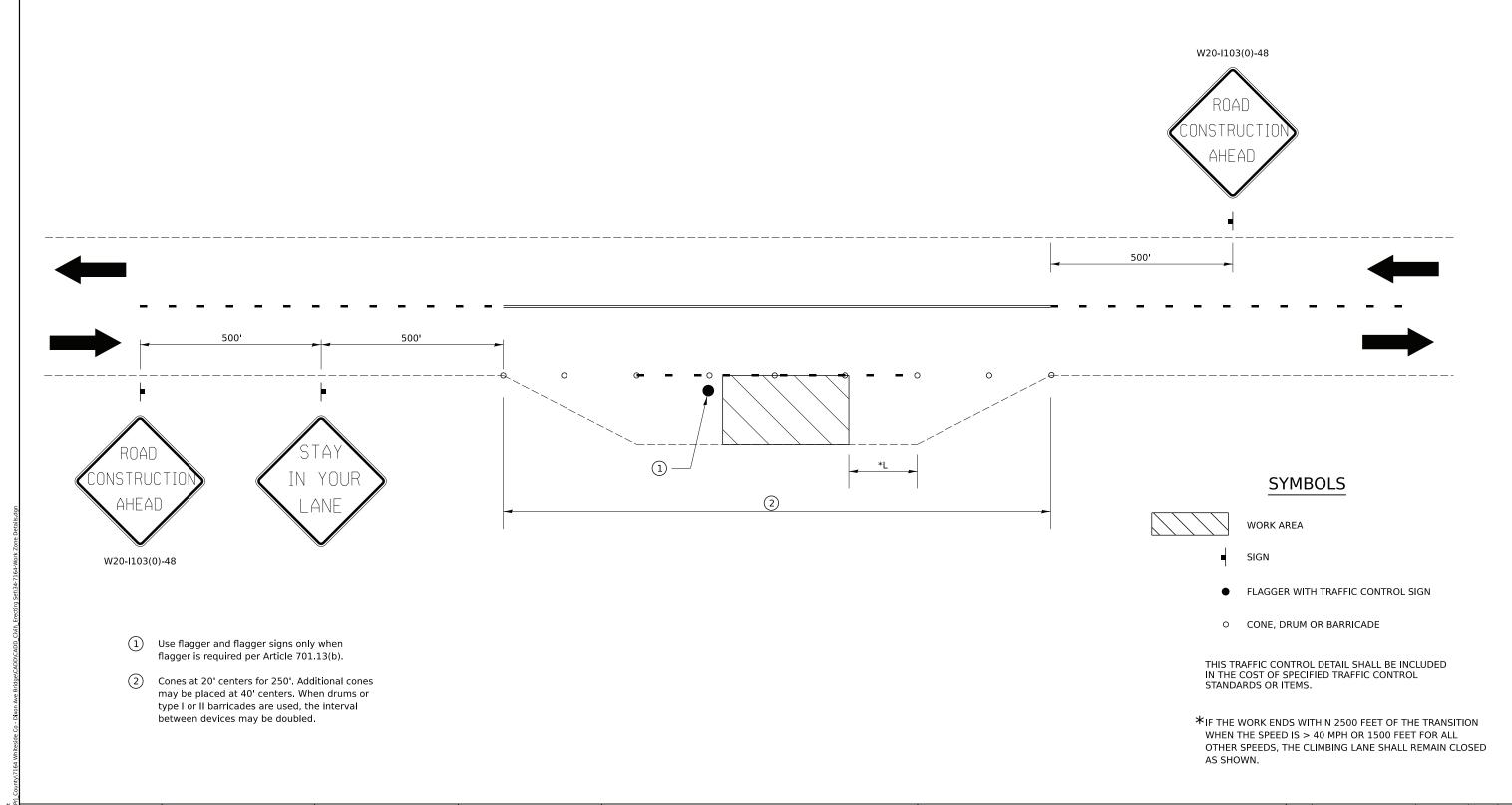
WHITESIDE 39

CONTRACT NO.

TRAFFIC CONTROL FOR THREE LANE SECTION CASE 1

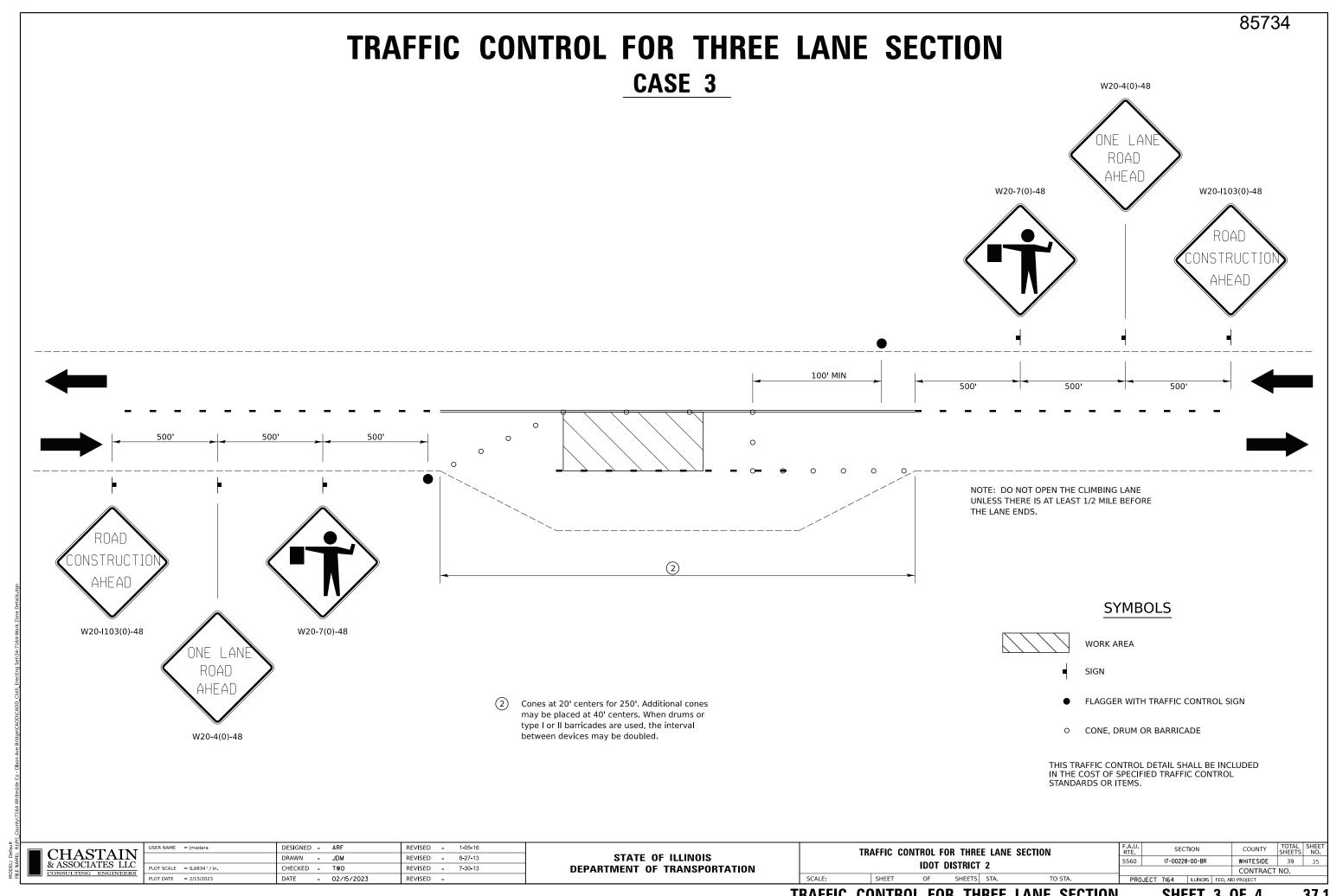


TRAFFIC CONTROL FOR THREE LANE SECTION CASE 2



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL FOR THREE LANE SECTION IDOT DISTRICT 2							F.A.U. SECT	
							17-00228	-00-BR
			DIO	-				
	SHEET	OF	SHEETS	STA.	TO STA.	PRO IF	CT 7164	ILLINOIS

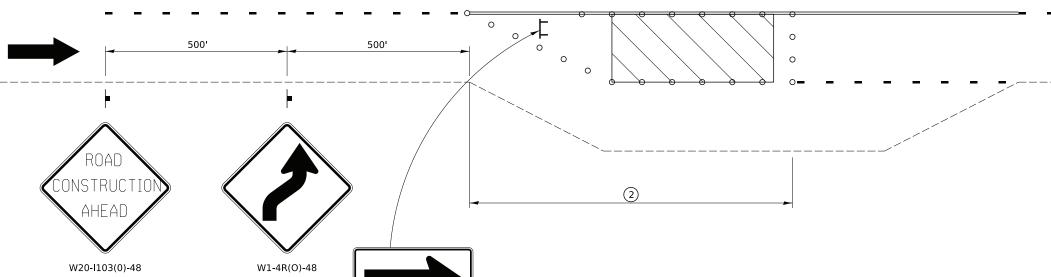


TRAFFIC CONTROL FOR THREE LANE SECTION CASE 4









NOTE: DO NOT OPEN THE CLIMBING LANE UNLESS THERE IS AT LEAST 1/2 MILE BEFORE THE LANE ENDS.

SYMBOLS

WORK AREA

SIG

FLAGGER WITH TRAFFIC CONTROL SIGN

O CONE, DRUM OR BARRICADE

TYPE III BARRICADE

THIS TRAFFIC CONTROL DETAIL SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

CASE 4 APPLIES WHEN NO WORKERS ARE PRESENT. WHEN WORKERS ARE PRESENT, TWO LANES SHALL BE CLOSED AND TRAFFIC CONTROL SHALL BE ACCORDING TO CASE 3.

CHASTAIN & ASSOCIATES LLC

USER NAME = Jmadara	DESIGNED -	ARF	REVISED	-	1-05-16	
	DRAWN -	JDM	REVISED	-	8-27-13	
PLOT SCALE = 0.0834 / In	CHECKED -	TWO	REVISED	-	7-30-13	
PLOT DATE = 2/15/2023	DATE -	02/15/2023	REVISED	-		

W1-6R(0)-6030

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Cones at 20' centers for 250'. Additional cones may be placed at 40' centers. When drums or

type I or II barricades are used, the interval between devices may be doubled.

TRAFFIC CONTROL FOR THREE LANE SECTION									
IDOT DISTRICT 2									
	SHEET	OF	SHEETS	STA	TO STA.				

F.A.U. RTE	SECTION				COUNTY	TOTAL SHEETS	SHI
5560	17-00228-00-BR				WHITESIDE	39	3
·					CONTRACT	NO.	
PROJECT 7164 ILLINOIS FED. A				FED. AI	D PROJECT		

