

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1025	24-00245-00-BR	MADISON	22	1
SN 060-6113		ILLINOIS	CONTRACT NO.	97908

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES AND STANDARDS
3 - 4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6	PLAN AND PROFILE
7 - 8	SUGGESTED MAINTENANCE OF TRAFFIC
9	EROSION CONTROL PLAN
10 - 22	STRUCTURE PLANS

PLANS FOR PROPOSED
LOCAL BRIDGE FORMULA PROGRAM

MS 1025 (PEBBLE CREEK DRIVE)
OVER BLACK CREEK
SECTION 24-00245-00-BR
PROJECT WZDA(928)
SUPERSTRUCTURE REPLACEMENT
MADISON COUNTY
CITY OF ALTON
C-98-075-25

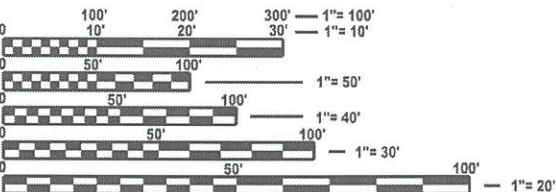


SIGNED: *Larry D. Gowler, Jr.* 7/17/2026
ILLINOIS PROFESSIONAL ENGINEER NO. 062-052900
LICENSE EXPIRES: 11-30-2027

DESIGN CLASSIFICATION

FUNCTIONAL CLASSIFICATION: LOCAL ROAD <250
DESIGN SPEED: 30 MPH
EXISTING TRAFFIC: 150 ADT (2024)
DESIGN TRAFFIC: 200 ADT (2045)

PROJECT LOCATION
BEGIN STA. 13+75.00
END STA. 15+15.00
SN 060-6113
PPC DECK BEAM BRIDGE

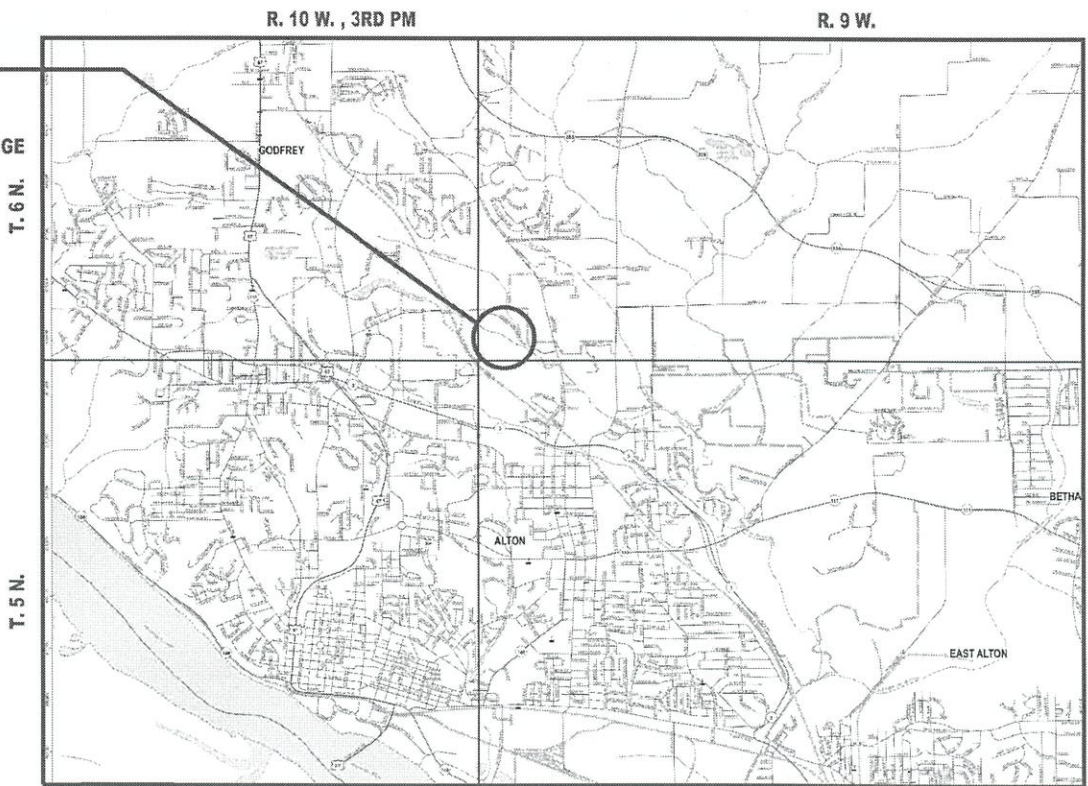


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CONTRACT NO. 97908



LOCATION MAP

NOT TO SCALE

GROSS LENGTH = 140.0 FT. = 0.0265 MILE

NET LENGTH = 140.0 FT. = 0.0265 MILE



CITY OF ALTON, ILLINOIS
DEPARTMENT OF PUBLIC WORKS

SUBMITTED *July 16, 2026*
APPROVED *July 16, 2026*
John Mitchell
DIRECTOR OF PUBLIC WORKS

PASSED *July 21, 2026*
for Hardy
DISTRICT EIGHT ENGINEER OF
LOCAL ROADS & STREETS

Released For
Bld Based on
Limited Review
July 21, 2026
Carrie Nelson
REGION FIVE ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2022, THESE PLANS AND THE SPECIAL PROVISIONS.
2. ANY REFERENCE TO STANDARDS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF THE DEPARTMENT.
3. THE LOCATION OF THE EXISTING UTILITIES AS ILLUSTRATED IN THE PLANS ARE BASED ON THE FIELD INVESTIGATION AND COORDINATION WITH UTILITIES, HOWEVER THE EXACT LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
4. ELEVATIONS ARE BASED ON NAVD88. THE PROPOSED ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEET AND CROSS-SECTIONS ARE THE FINISHED SURFACE, UNLESS OTHERWISE NOTED.
5. NO PAYMENT FOR OVERHAUL WILL BE MADE FOR THIS PROJECT.
6. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES WITHIN THE PROJECT AREA AND PREVENT PONDING OF WATER ON PRIVATE PROPERTY.
7. WHERE SECTION OR QUARTER SECTION MONUMENTS ARE ENCOUNTERED THE ENGINEER SHALL BE NOTIFIED PRIOR TO REMOVING SAID MONUMENT. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MONUMENTS. IF SAID MONUMENT IS TO BE REMOVED IT SHALL BE DOCUMENTED AND RESET BY LICENSED SURVEYOR.
8. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING QUANTITIES:
- a.

FERTILIZIER FOR SODDING

60 LBS/ACRE
- b.

TEMP. AGG. FOR ACCESS

0.4 TON/SY
- c.

HMA BINDER & SURFACE COURSE

112 LB/SY/IN.
- d.

STONE BEDDING

1.8 TON/CY

MIXTURE DESIGN

MIXTURE REQUIREMENTS		
MIXTURE USE	BINDER/BASE	SURFACE
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	20%	20%
DESIGN AIR VOIDS	4.0% @ Ndes = 70	4.0% @ Ndes = 70
MIX COMPOSITION (GRADATION)	IL 9.5 FG	IL 9.5 FG
FRICTION AGG		MIX "C"
MTD	NO	NO

STANDARDS

- 000001-09STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001001-02AREAS OF REINFORCEMENT BARS
- 001006DECIMAL OF AN INCH AND OF A FOOT
- 280001-07TEMPORARY EROSION CONTROL SYSTEMS
- 515001-04NAME PLATE FOR BRIDGES
- 542301-03PRECAST REINFORCED FLARED END SECTION
- 602301-04INLET - TYPE A
- 602306-03INLET - TYPE B
- 602401-07PRECAST MANHOLE TYPE A 4' DIAMETER
- 602701-02MANHOLE STEPS
- 604001-05FRAME AND LIDS TYPE 1
- 604041-03FRAME AND GRATE TYPE 9
- 606001-09CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 630001-13STEEL PLATE BEAM GUARDRAIL
- 630301-09SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631032-10TRAFFIC BARRIER TERMINAL, TYPE 6A
- 701321-19LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701901-11TRAFFIC CONTROL DEVICES
- 704001-08TEMPORARY CONCRETE BARRIER
- 701501-06URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
- 725001-01OBJECT AND TERMINAL MARKERS
- 782006-01GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

COMMITMENTS

- a.
- SHOULD THE PROJECT REQUIRE TEMPORARY OR PERMANENT LIGHTING, ALL LIGHTING SHALL BE INSTALLED IN ACCORDANCE WITH FEDERAL HIGHWAY ADMINISTRATION GUIDE FOR BATS WHICH RECCOMENDS THAT LIGHTING DOES NOT INCREASE ILLUMINATION ABOVE AMBIENT CONDITIONS AND THAT INCORPORATES FULL CUT OFF, DOWNWARD FACING LIGHTS DIRECTED AWAY FROM FORESTED AREAS.

KNOWN UTILITY COMPANIES

WATER
ILLINOIS AMERICAN WATER
ATTN: DEREK BECK, FIELD OPERATIONS
(618) 225-3582
DEREK.BECK@AMEREN.COM

SANITARY & STORM SEWER
CITY OF ALTON, ILLINOIS
C/O ILLINOIS AMERICAN WATER
ATTN: DEREK BECK, FIELD OPERATIONS
(618) 225-3582
DEREK.BECK@AMEREN.COM

ELECTRIC & GAS
AMEREN
ATTN: LESLIE CROWNOVER
#6 RICHARD MARK WAY
COLLINSVILLE, IL 62234
(217) 535-5791
LCROWNOVER@AMEREN.COM

COMMUNICATIONS
AT&T

CHARTER COMMUNICATIONS/SPECTRUM

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 10 South Jackson Street, Suite 301 Belleville, IL 62220 PHONE: 618-791-5469	USER NAME	▪ Alex.Huelskamp	DESIGNED	-	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND STANDARDS PEBBLE CREEK DRIVE, ALTON ILLINOIS					MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
			DRAWN	-							REVISED	-	1025	24-00245-00-BR	MADISON	22	2
			CHECKED	-		REVISED	-				SN 060-6113			CONTRACT NO.	97908		
	PLOT DATE	▪ 7/16/2026	DATE	-		REVISED	-	SCALE:		SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT

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SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	20200100	EARTH EXCAVATION	CU YD	30
	20800150	TRENCH BACKFILL	CU YD	9
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	3
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	3
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	3
	25200100	SODDING	SQ YD	190
	28000400	PERIMETER EROSION BARRIER	FOOT	331
	28200200	FILTER FABRIC	SQ YD	11
	35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	377
	40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	40
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	679
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	68
	40602970	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	TON	34
	40604002	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "C", N70	TON	34

*

SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	44000100	PAVEMENT REMOVAL	SQ YD	302
	44000400	GUTTER REMOVAL	FOOT	194
	44000600	SIDEWALK REMOVAL	SQ FT	51
	50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1
	50102400	CONCRETE REMOVAL	CU YD	4.9
	50200100	STRUCTURE EXCAVATION	CU YD	12
	50300225	CONCRETE STRUCTURES	CU YD	5.0
	50300260	BRIDGE DECK GROOVING	SQ YD	150
	50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	1457
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2490
	50800515	BAR SPLICERS	EACH	57
	50900209	STEEL RAILING, TYPE SMX	FOOT	91
	51500100	NAME PLATES	EACH	1
	53212754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	50

* SPECIALTY ITEM



USER NAME	▪ Alex.Huelskamp	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	▪ 7/16/2026	DATE	-	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES PEBBLE CREEK DRIVE, ALTON ILLINOIS			
SCALE:	SHEET 1 OF 2 SHEETS	STA.	TO STA.

MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1025	24-00245-00-BR	MADISON	22	3
SN 060-6113		CONTRACT NO. 97908		
ILLINOIS		FED. AID PROJECT		

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SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	96
	59000200	EPOXY CRACK INJECTION	FOOT	25
	59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	12.0
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
	60236600	INLETS, TYPE A, TYPE 9 FRAME AND GRATE	EACH	1
	60240303	INLETS, TYPE B, TYPE 9 FRAME AND GRATE	EACH	1
*	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	2
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
	67100100	MOBILIZATION	L SUM	1
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	56
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
	70106700	TEMPORARY RUMBLE STRIPS	EACH	6

SPECIAL PROVISION	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	325
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	325
	70600240	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2
	70600340	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 2	EACH	2
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
*	78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	8
*	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	12
	X2810808	STONE DUMPED RIPRAP, CLASS A4 (SPECIAL)	TON	26
	X5030301	CONCRETE WEARING SURFACE (VARIABLE DEPTH)	SQ YD	162
	X6062400	CONCRETE GUTTER (SPECIAL)	FOOT	194
	X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1

* SPECIALTY ITEM

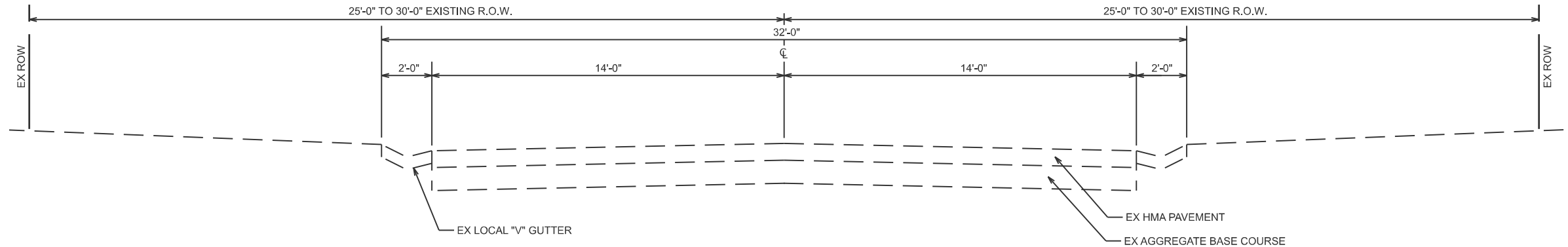


USER NAME	* Alex.Huelskamp	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	* 7/16/2026	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE:		SHEET 2 OF 2 SHEETS	STA. TO STA.

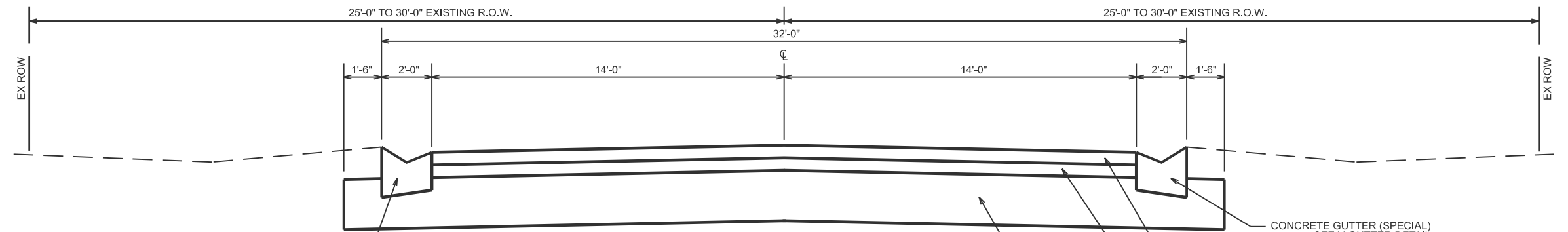
MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1025	24-00245-00-BR	MADISON	22	4
SN 060-6113		CONTRACT NO. 97908		
ILLINOIS		FED. AID PROJECT		



EXISTING TYPICAL CROSS SECTION

STATION 13+75.00 TO STATION 14+20.94
STATION 14+68.44 TO STATION 15+15.00

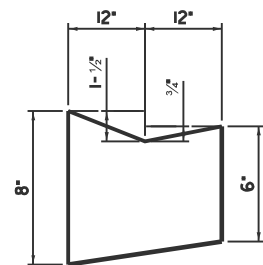
OMISSION FOR BRIDGE
STATION 14+20.94 TO STATION 14+68.44



PROPOSED TYPICAL CROSS SECTION

STATION 13+75.00 TO STATION 14+20.94
STATION 14+68.44 TO STATION 15+15.00

OMISSION FOR BRIDGE
STATION 14+20.94 TO STATION 14+68.44



V-GUTTER DETAIL

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LOCHMUELLER GROUP
10 South Jackson Street, Suite 301
Belleville, IL 62220
PHONE: 618.791.5469

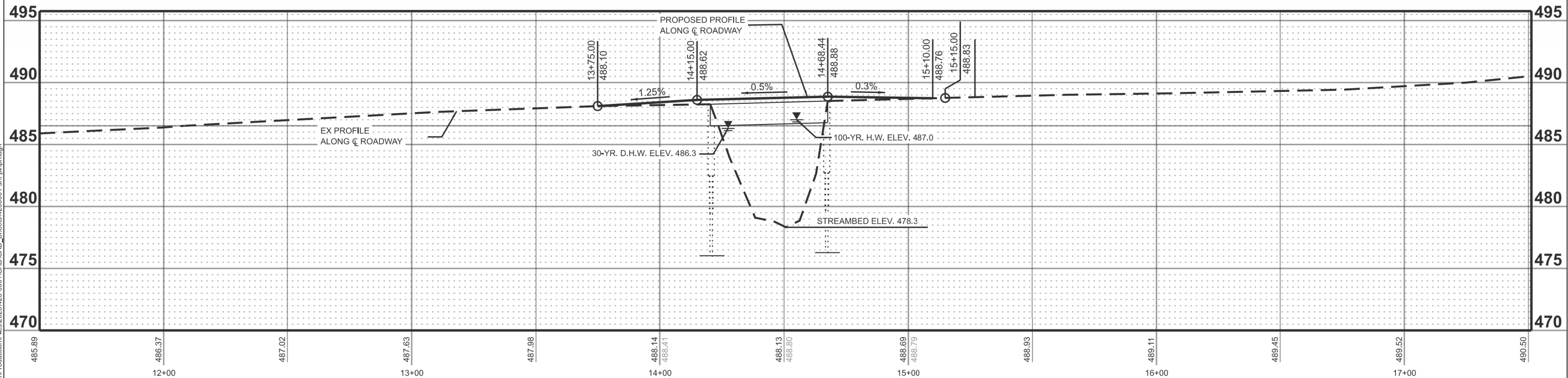
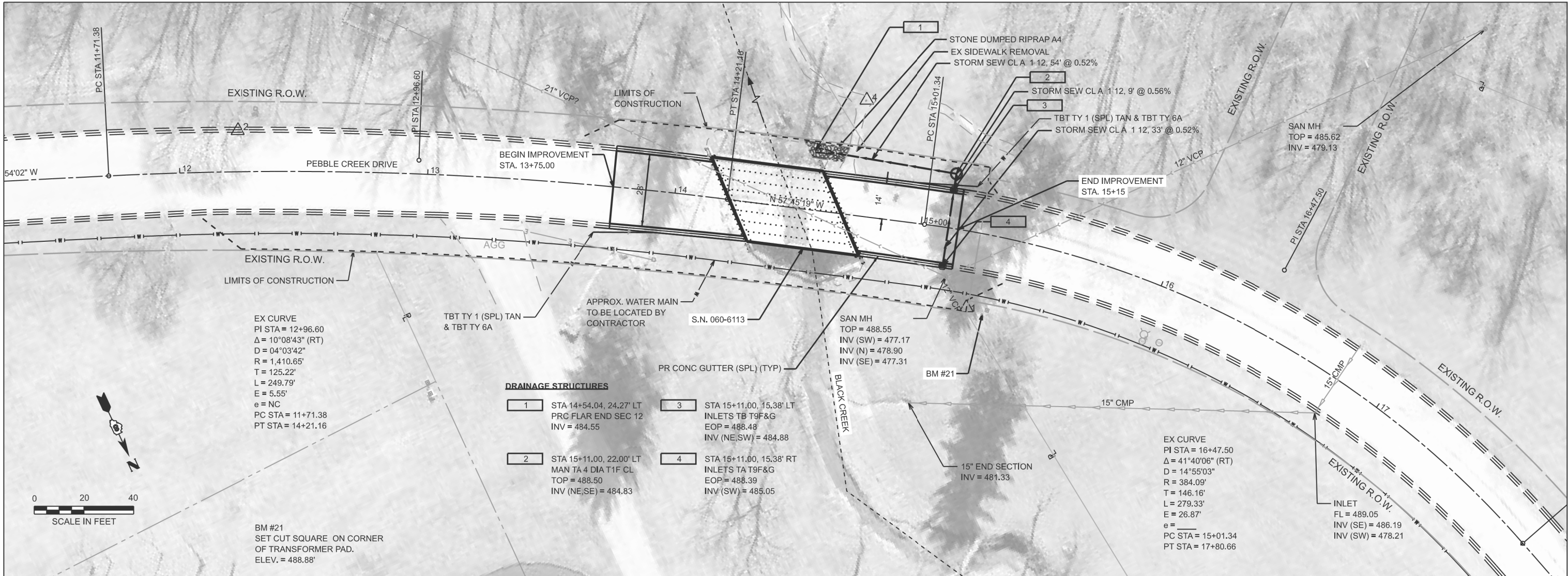
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		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	7/16/2026	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
PEBBLE CREEK DRIVE, ALTON ILLINOIS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1025	24-00245-00-BR	MADISON	22	5
SN 060-6113		CONTRACT NO. 97908		
		ILLINOIS FED. AID PROJECT		



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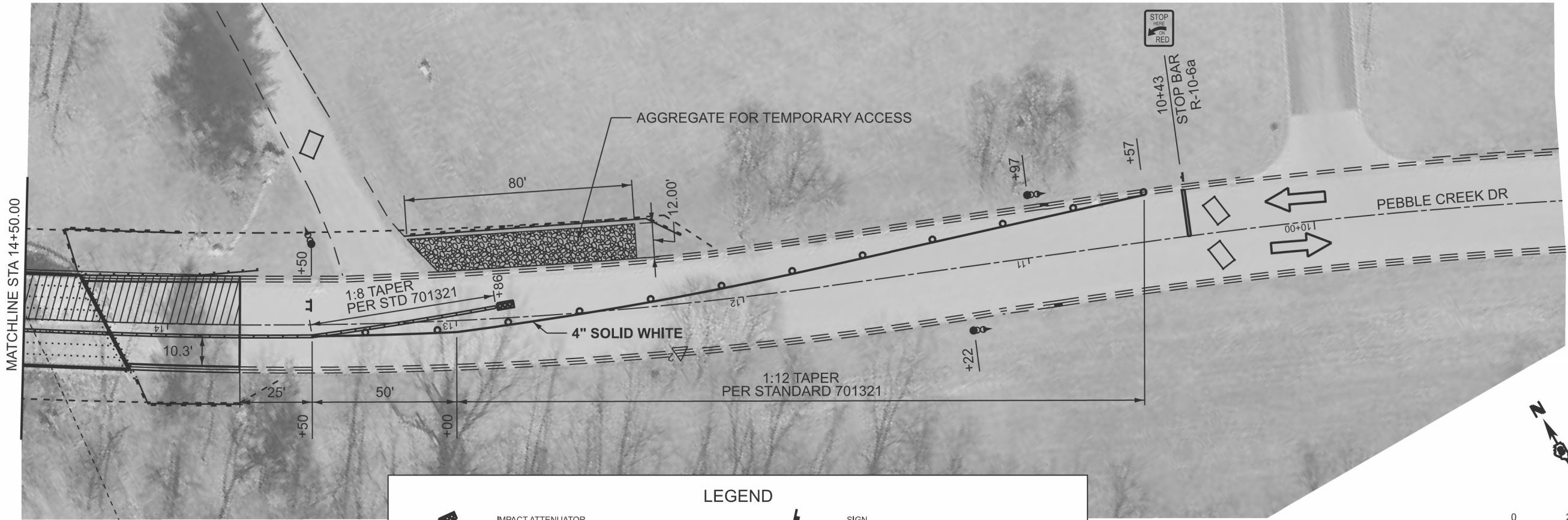
USER NAME	Alex.Huelskamp	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	7/16/2026	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
PEBBLE CREEK DRIVE, ALTON ILLINOIS

SCALE: 1" = 20' SHEET 1 OF 1 SHEETS STA. 11+50.00 TO STA. 17+50.00

MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1025	24-00245-00-BR	MADISON	22	6
	SN 060-6113		CONTRACT NO.	97908
		ILLINOIS	FED. AID PROJECT	





IMPACT ATTENUATOR



TEMPORARY CONCRETE BARRIER



DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT



TRAFFIC SIGNAL



WORK AREA

LEGEND



SIGN

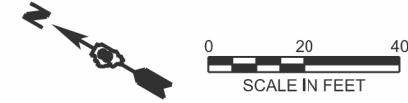


TYPE 3 BARRICADE WITH FLASHING LIGHTS



SIGNAL LOOPS

*** NOTE: SEE IDOT STANDARD 701321 FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS FOR BRIDGE WORK.



MODEL: Stage1Consolid
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LOCHMUELLER GROUP

10 South Jackson Street, Suite 301
Belleville, IL 62220
PHONE: 618.781.5469

USER NAME	Alex.Huelskamp	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	7/16/2026	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

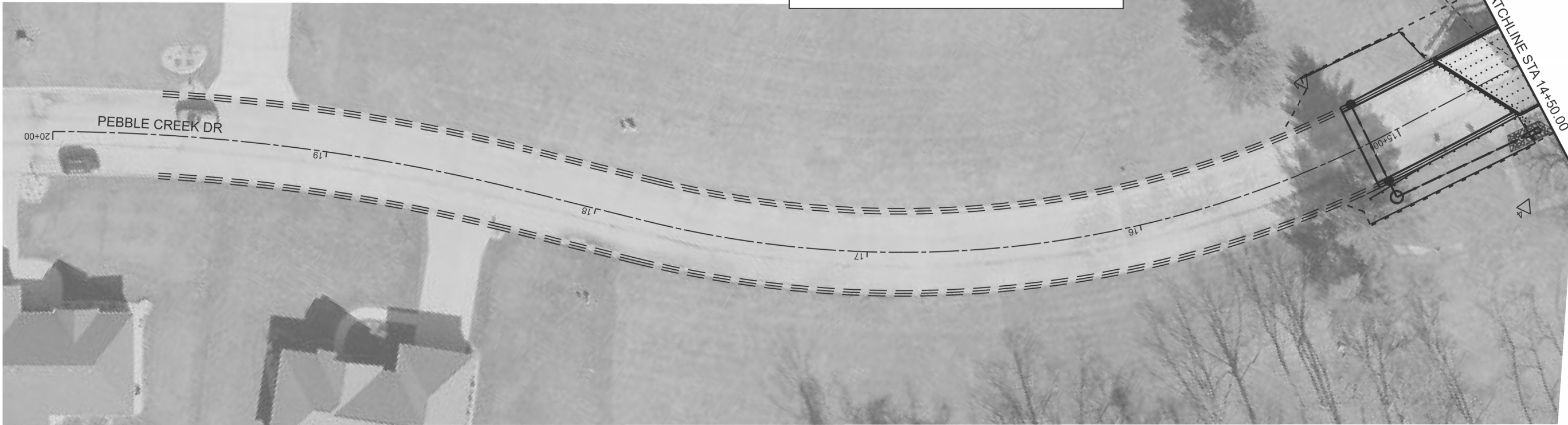
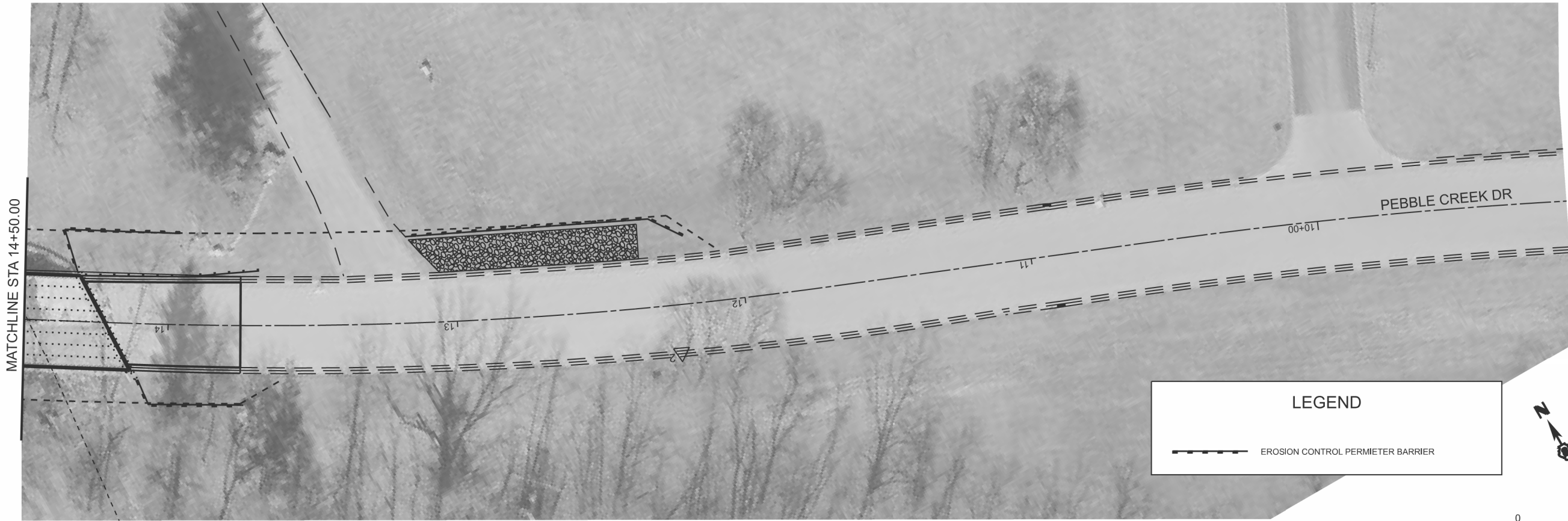
SUGGESTED MAINTENANCE OF TRAFFIC - STAGE 1
PEBBLE CREEK DR. - ALTON, ILLINOIS

SCALE: 1" = 20'

SHEET 1 OF 2 SHEETS

STA. TO STA.

MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1025	24-00245-00-BR	MADISON	22	7
	SN 060-6113		CONTRACT NO.	97908
		ILLINOIS	FED. AID PROJECT	



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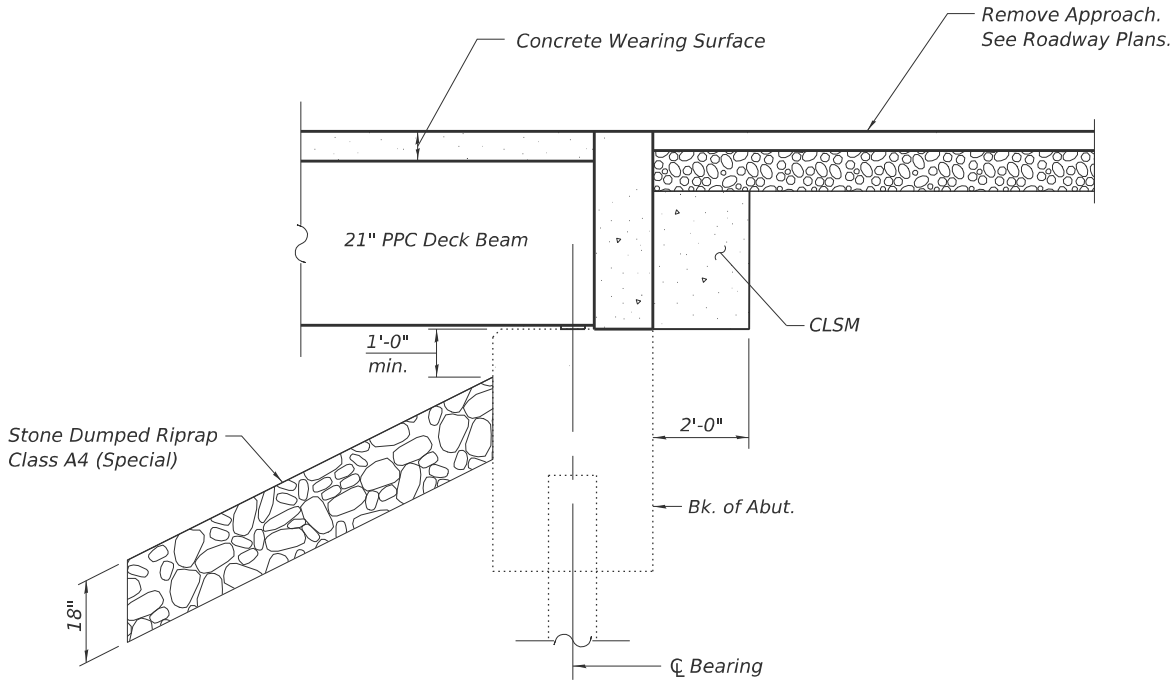


USER NAME	Alex.Huelskamp	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
		CHECKED	-	REVISED	-
PLOT DATE	7/16/2026	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN PEBBLE CREEK DRIVE, ALTON ILLINOIS			
SCALE: 1" = 20'	SHEET 1	OF 1	SHEETS
	STA.		TO STA.

MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1025	24-00245-00-BR	MADISON	22	9
SN 060-6113		CONTRACT NO. 97908		
ILLINOIS		FED. AID PROJECT		



SECTION THRU ABUTMENT
(Horiz. dim. at Rt. L's)

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
4. Repairs to the substructure shall be completed prior to placement of the new beams during each stage. Areas of repairs shown are estimated and may be varied in the field as directed by the Engineer. Engineer shall show actual locations and size of repairs on As-Built Plans.
5. The cost of removal of existing railing and removal of the existing wearing surface shall be included in the cost of Removal of Existing Superstructures.
6. The structure shall be load posted at 25 Tons for Stage 1 Traffic with the Temporary Concrete Barrier on the existing beams.

WATERWAY INFORMATION

Drainage Area = 0.87 sq. mi. Existing Low Grade Elev. = 487.76 ft. at Sta. 13+10 Proposed Low Grade Elev. = 487.76 ft. at Sta. 13+10									
Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Base	10	860	176	176	485.6	0.2	0.2	485.8	485.8
Design	30	1,170	200	200	486.3	0.5	0.5	486.8	486.8
Base	100	1,530	200	200	487.0	0.9	0.8	487.9	487.8
Overtop Ex	80±	1,440	200	200	486.8	0.8		487.6	
Overtop Pr	80±	1,440	200	200	486.8		0.7		487.5
Scour	200	1,750	200	200	487.4	1.1	1.0	488.5	488.4
Max. Calc.	500	n/a							

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)				Item 113
	E. Abut.	-	-	W. Abut.	
Q100	----			----	8
Q200	----			----	
Design	481.83			482.07	
Check	481.83			482.07	

BLACK CREEK
RE-BUILT 202_ BY
CITY OF ALTON
SEC. 24-00245-00-BR
MS 1025 STA. 14+44.60
LOADING HL-93
STR. NO. 060-6113

NAME PLATE

Locate Name Plate as shown
in the Plan View. See Std. 515001.

TOTAL BILL OF MATERIAL

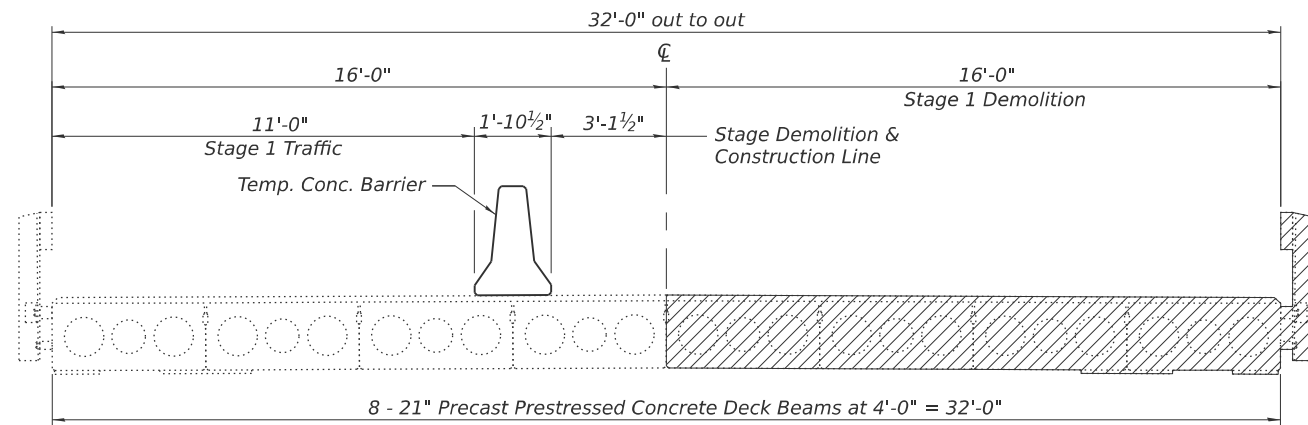
ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1	---	1
Concrete Removal	Cu Yd	---	4.9	4.9
Structure Excavation	Cu Yd	---	12	12
Concrete Structures	Cu Yd	---	5.0	5.0
Bridge Deck Grooving	Sq Yd	150	---	150
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq Ft	1,457	---	1,457
Reinforcement Bars, Epoxy Coated	Pound	2,190	300	2,490
Bar Splicers	Each	45	12	57
Steel Railing, Type SMX	Foot	91	---	91
Name Plates	Each	1	---	1
Structural Repair of Concrete (Depth ≤ 5 Inches)	Sq Ft	---	50	50
Epoxy Crack Injection	Foot	---	25	25
Controlled Low-Strength Material	Cu Yd	---	---	12.0
Stone Dumped Riprap, Class A4 (Special)	Ton	---	---	20
Concrete Wearing Surface (Variable Depth)	Sq Yd	162	---	162

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

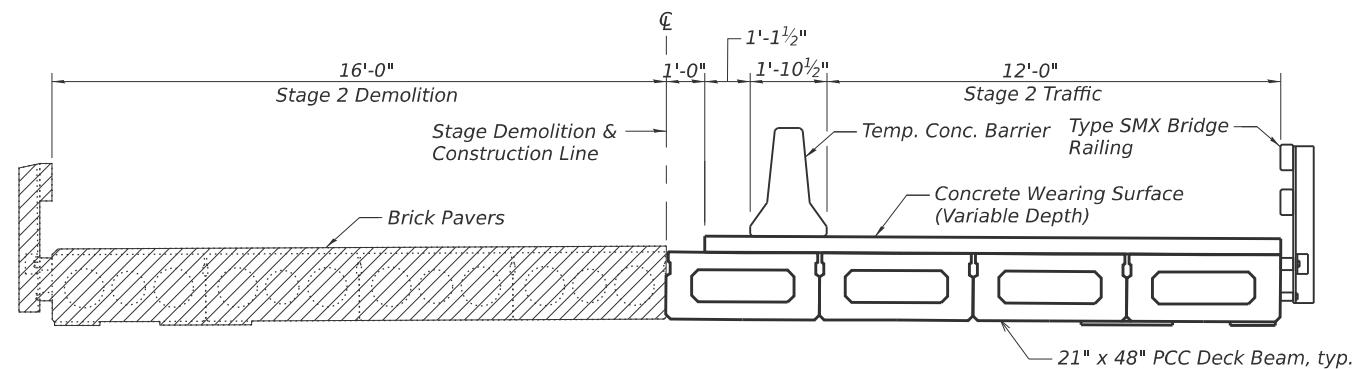
GENERAL DATA
STRUCTURE NO. 060-6113

SHEET 2 OF 13 SHEETS

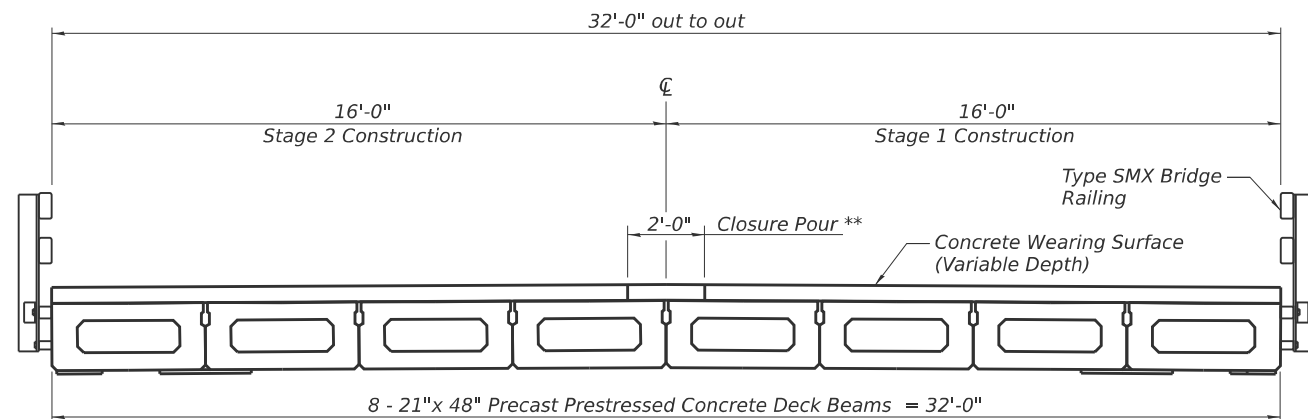
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1025	24-00245-00-BR	MADISON	22	11
SN 060-6113		CONTRACT NO. 97908		
		ILLINOIS	FED. AID PROJECT	



STAGE 1 TRAFFIC & DEMOLITION
(Looking Northwest)

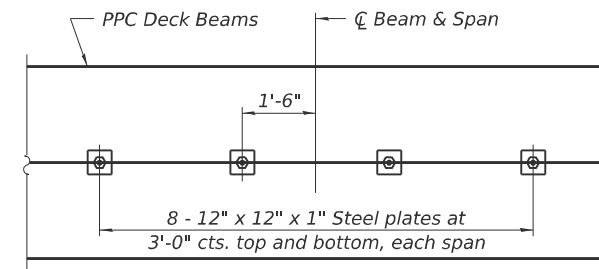


STAGE 2 TRAFFIC & DEMOLITION
(Looking Northwest)

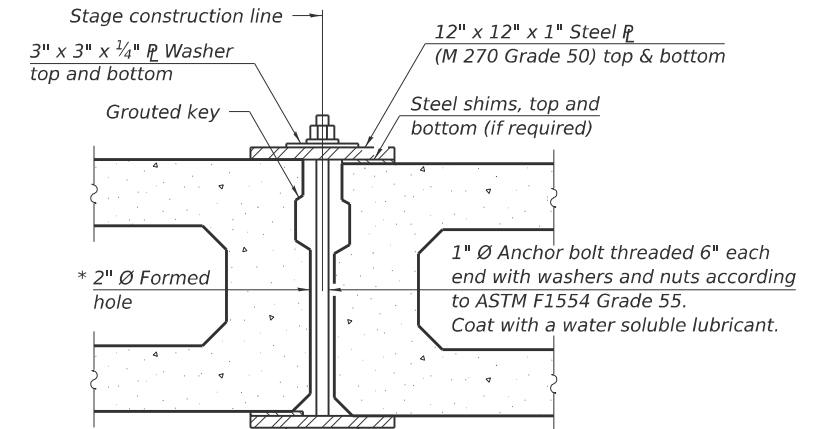


PROPOSED SECTION
(Looking Northwest)

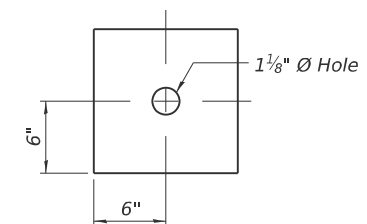
** Closure Pour shall be completed as part of Stage 2 Construction and under Stage 2 Traffic Control.



PLAN



SECTION

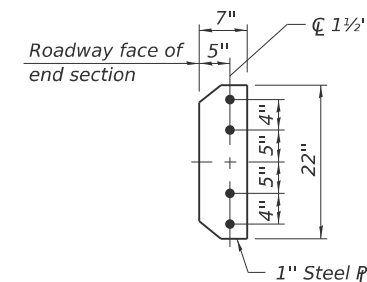


CLAMPING PLATE

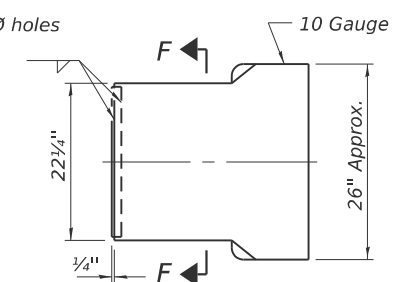
* Cast semi-circular recesses in the sides of each beam adjacent to the stage construction line. These recesses should align to form a hole at the appropriate locations for the clamping device bolts.

SHEAR KEY CLAMPING DETAILS AT STAGE CONSTRUCTION JOINT

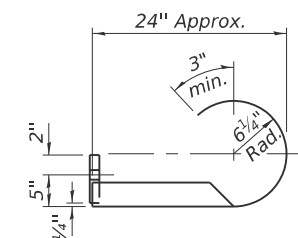
See stage construction details for traffic lanes.



SECTION F-F



ELEVATION



PLAN

CURLED END SECTION DETAILS

Cost of curled end sections is included with Steel Railing. (2 Required)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

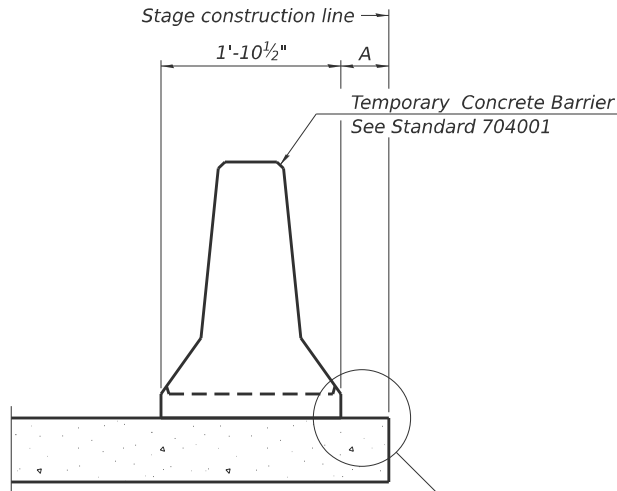
STAGE CONSTRUCTION & MISCELLANEOUS DETAILS
STRUCTURE NO. 060-6113

SHEET 3 OF 13 SHEETS

MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SN 060-6113		CONTRACT NO. 97908		
		ILLINOIS	FED. AID PROJECT	

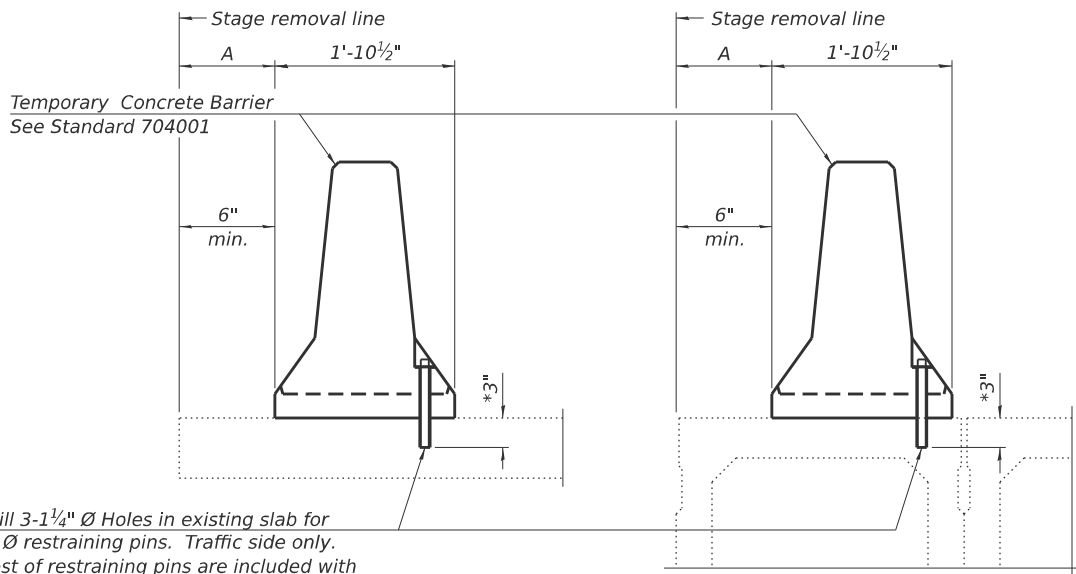
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PLOT DATE =		CHECKED -	LDG	REVISED -	

MODEL: 04TempConcBarrier
FILE NAME: X:\Production\Files\2025\425-000\1CAD\Structures\4250001_Pebble_Creek_StructureRepairSheets.dgn



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

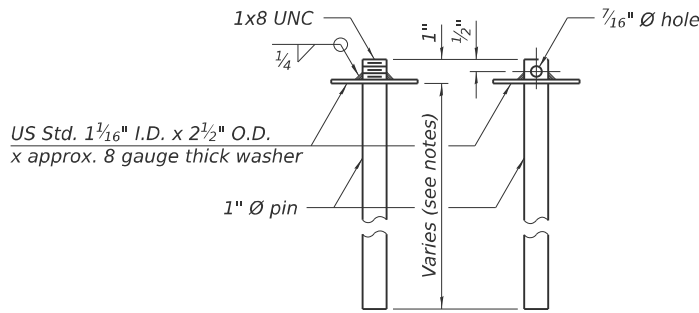


Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins is included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

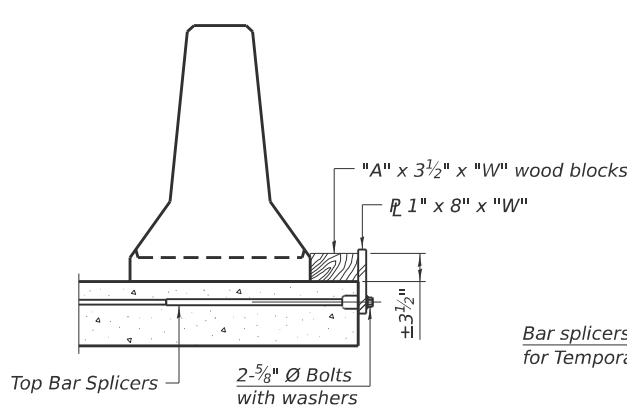
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

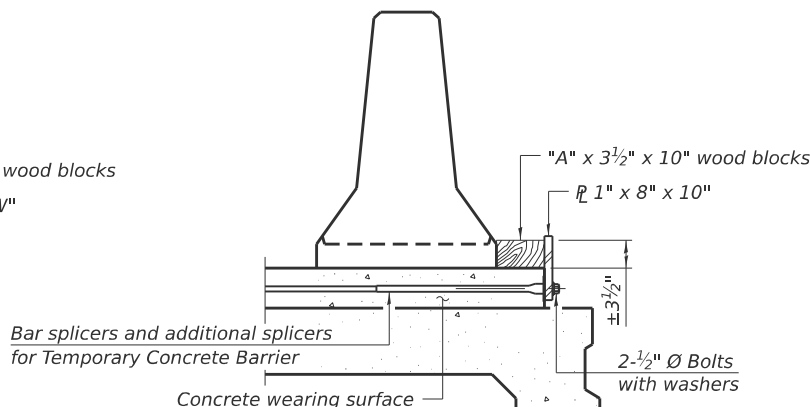


RESTRAINING PIN

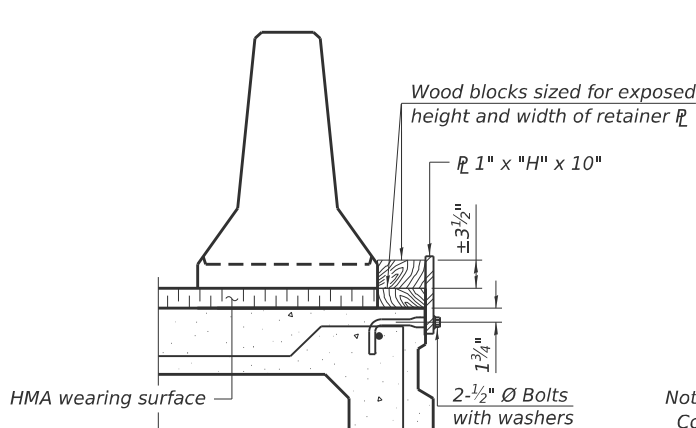
SECTIONS THRU SLAB OR DECK BEAM



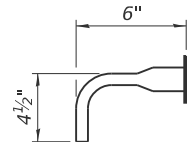
DETAIL I



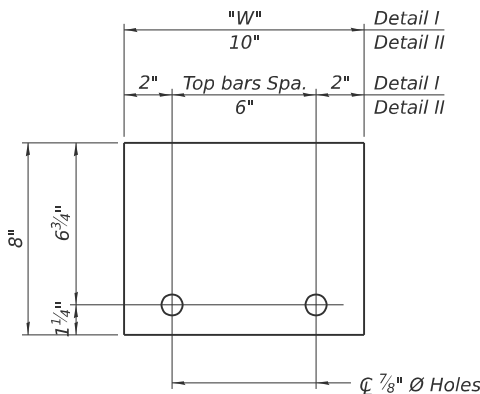
DETAIL II



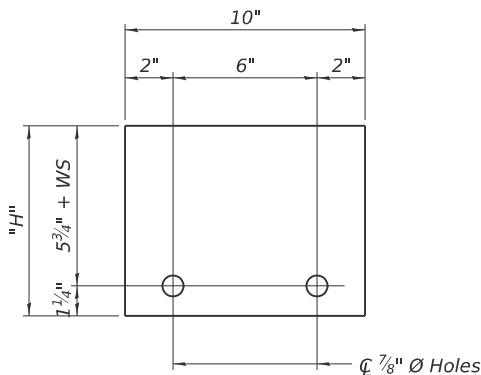
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER 1" x "H" x 10"
(Detail III)

Notes:
Cost of retainer assembly is included with Temporary Concrete Barrier.
A retainer assembly shall be located at the approximate center 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 1 1/2", 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.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023



USER NAME =	BSelbel
PLOT SCALE =	
PLOT DATE =	

DESIGNED -	JZM
CHECKED -	LDG
DRAWN -	WJS
CHECKED -	LDG

REVISED -	
REVISED -	
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REVISED -	

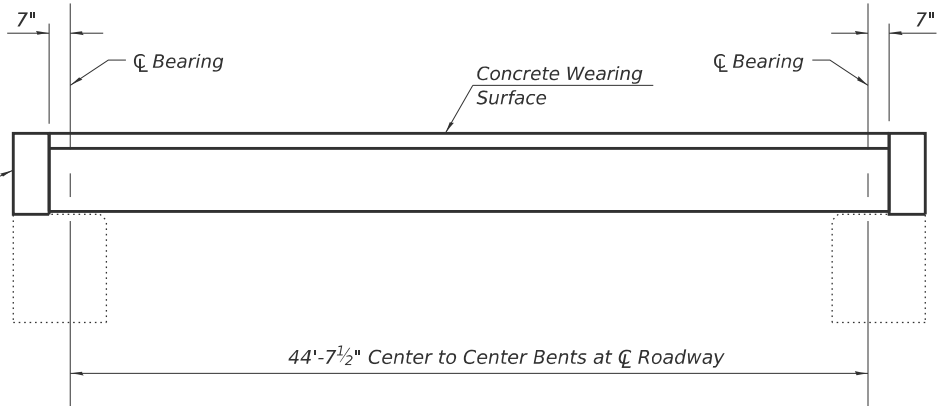
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 060-6113

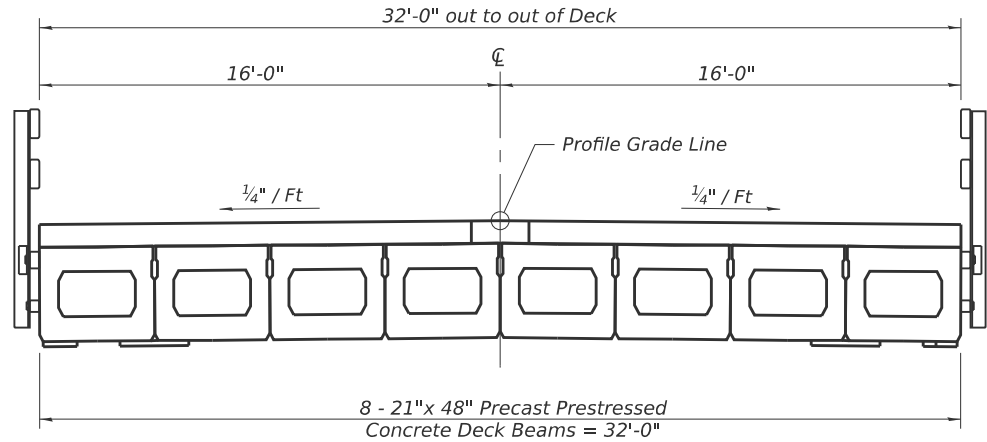
SHEET 4 OF 13 SHEETS

MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SN 060-6113		CONTRACT NO. 97908		
		ILLINOIS FED. AID PROJECT		

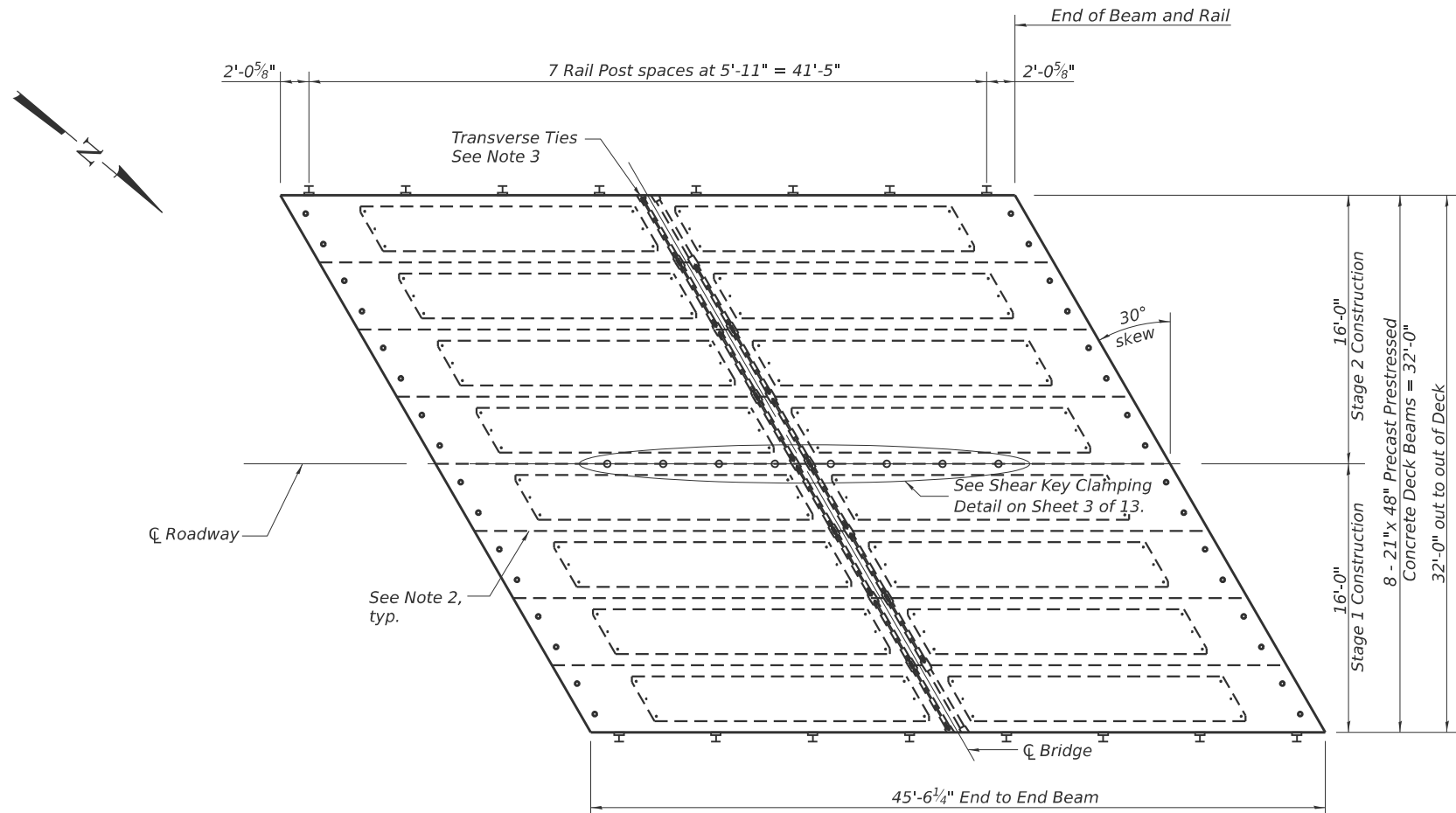
Backwalls will be removed and replaced to provide room for the beam replacement



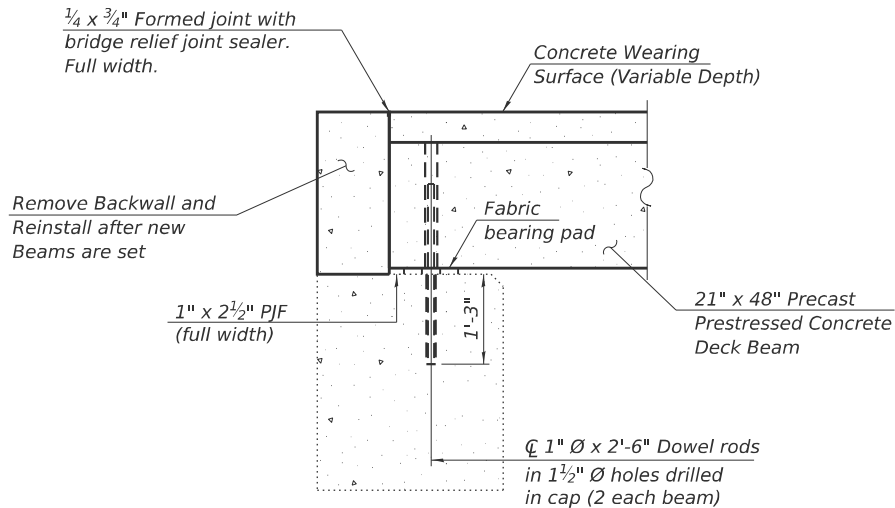
TYPICAL ELEVATION



TYPICAL SECTION



PLAN VIEW



ABUTMENT DETAIL
(Dimensions are at Rt. angles)

NOTES

- After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
- Longitudinal keys shall be grouted.
- The 1" $\varnothing$ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bars outside shall be filled with grout after transverse tie assembly is in place.

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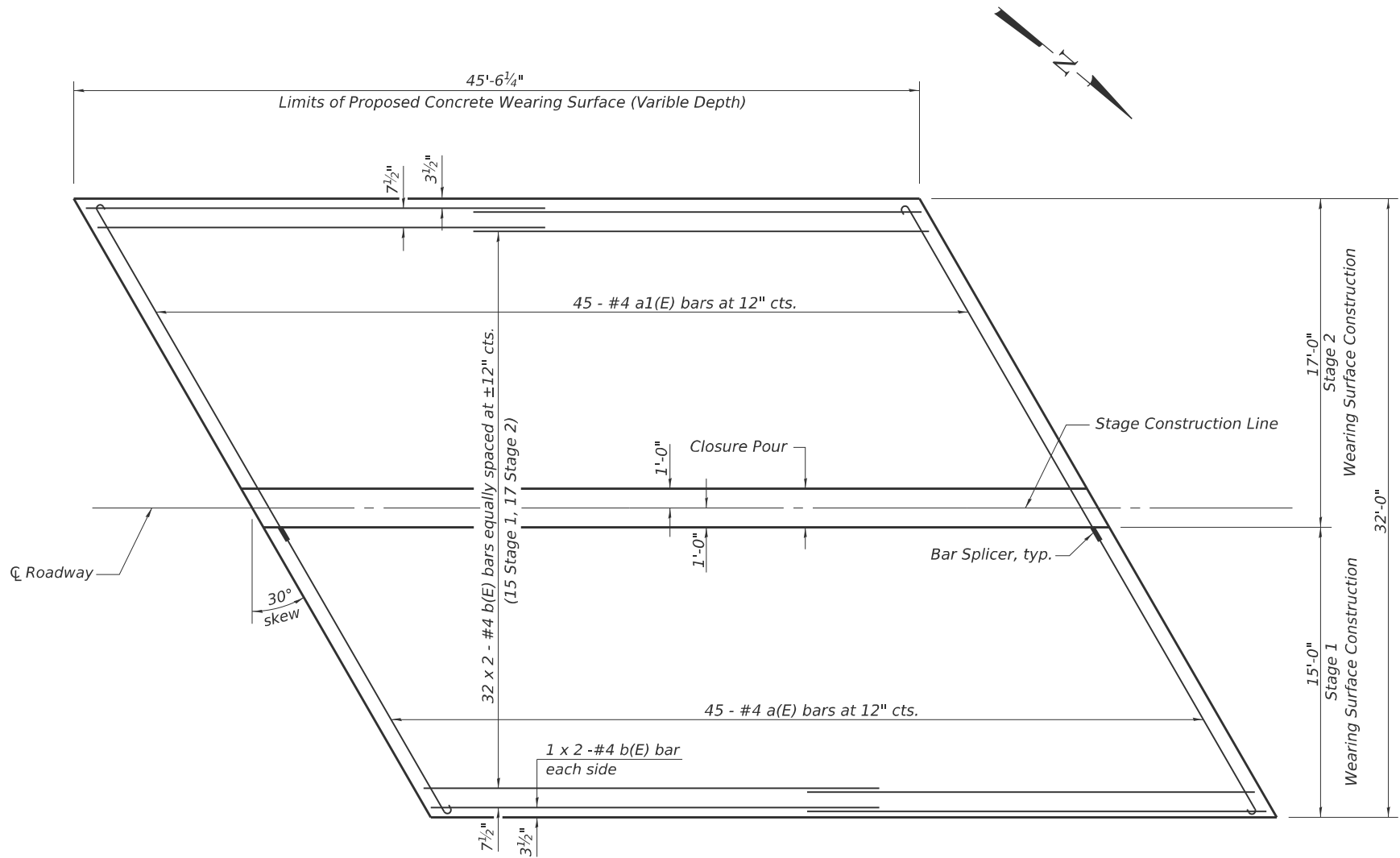
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 060-6113

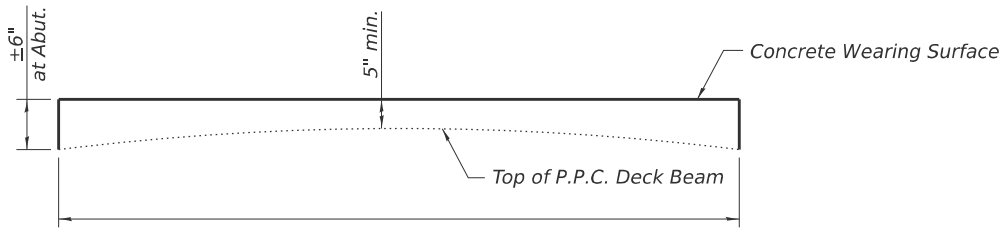
SHEET 5 OF 13 SHEETS

MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SN 060-6113		CONTRACT NO. 97908		
		ILLINOIS	FED. AID PROJECT	

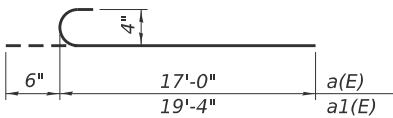


CONCRETE WEARING SURFACE PLAN

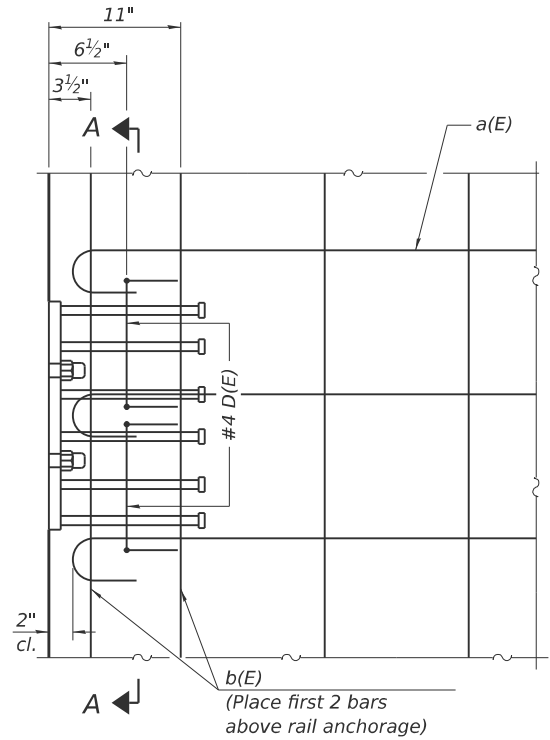
MINIMUM BAR LAP
#4 bar = 1'-8"



ANTICIPATED CONCRETE WEARING SURFACE PROFILE
(For information only)

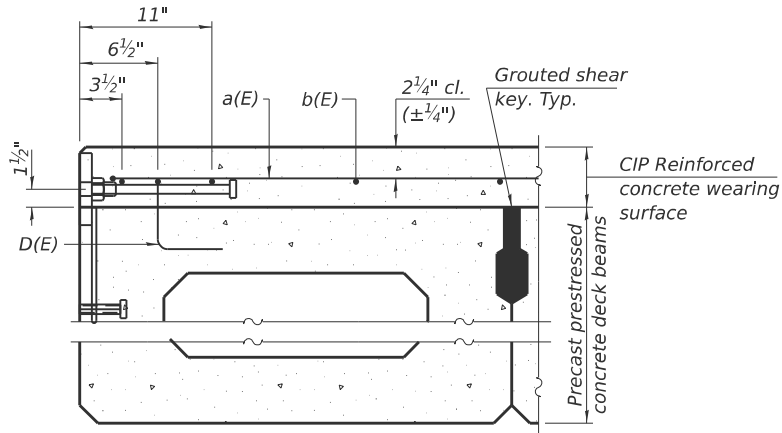


BARS a(E) & a1(E)

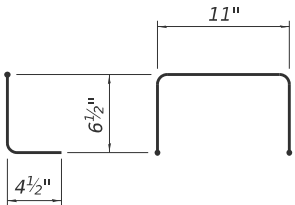


PLAN

Notes:
Formwork necessary for the wearing surface
may be secured utilizing the bottom rail
anchorage inserts and/or additional inserts cast
into the beam.

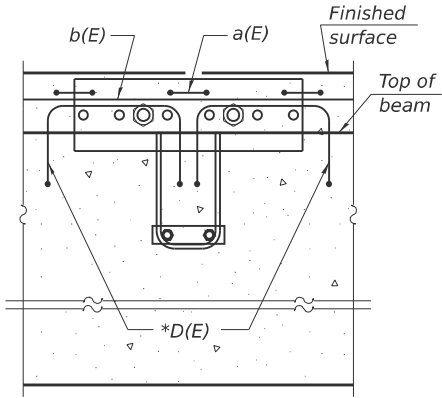


SECTION THRU FASCIA BEAM



BAR D(E)

* Place 2-#4 D(E) bars in beam at
each post location as shown. D(E)
bar included in cost of beam.



SECTION A-A

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	45	#4	17'-6"	C
a1(E)	45	#4	19'-10"	C
b(E)	68	#4	23'-6"	—
Reinforcement Bars, Epoxy Coated			Pound	2,190
Bar Splicers			Each	45
Concrete Wearing Surface (Variable Depth)			Sq. Yd.	162

Bars indicated thus 32 x 2-#4 etc. indicates
32 lines of bars with 2 lengths per line.

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		CHECKED -	LDG	REVISED -	
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MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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SN 060-6113		CONTRACT NO. 97908		
ILLINOIS		FED. AID PROJECT		

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PD-2148-R

4-4-2025



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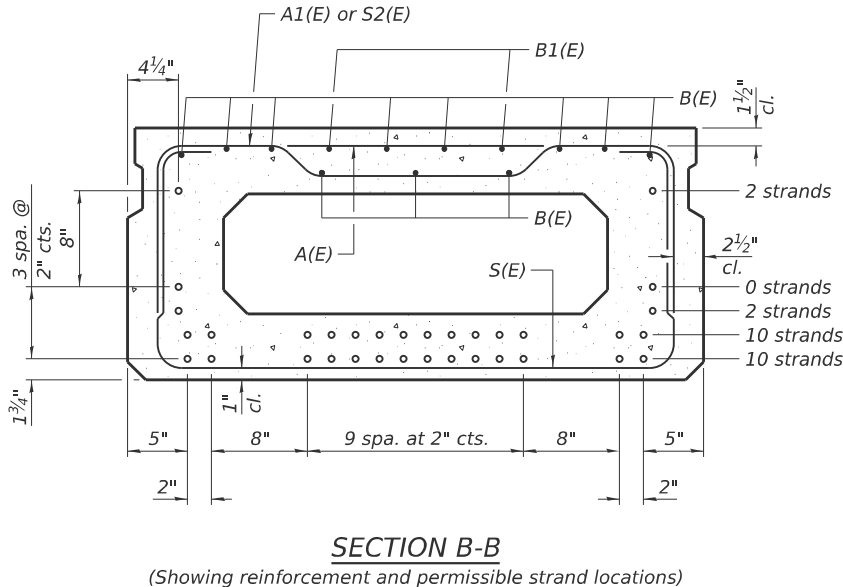
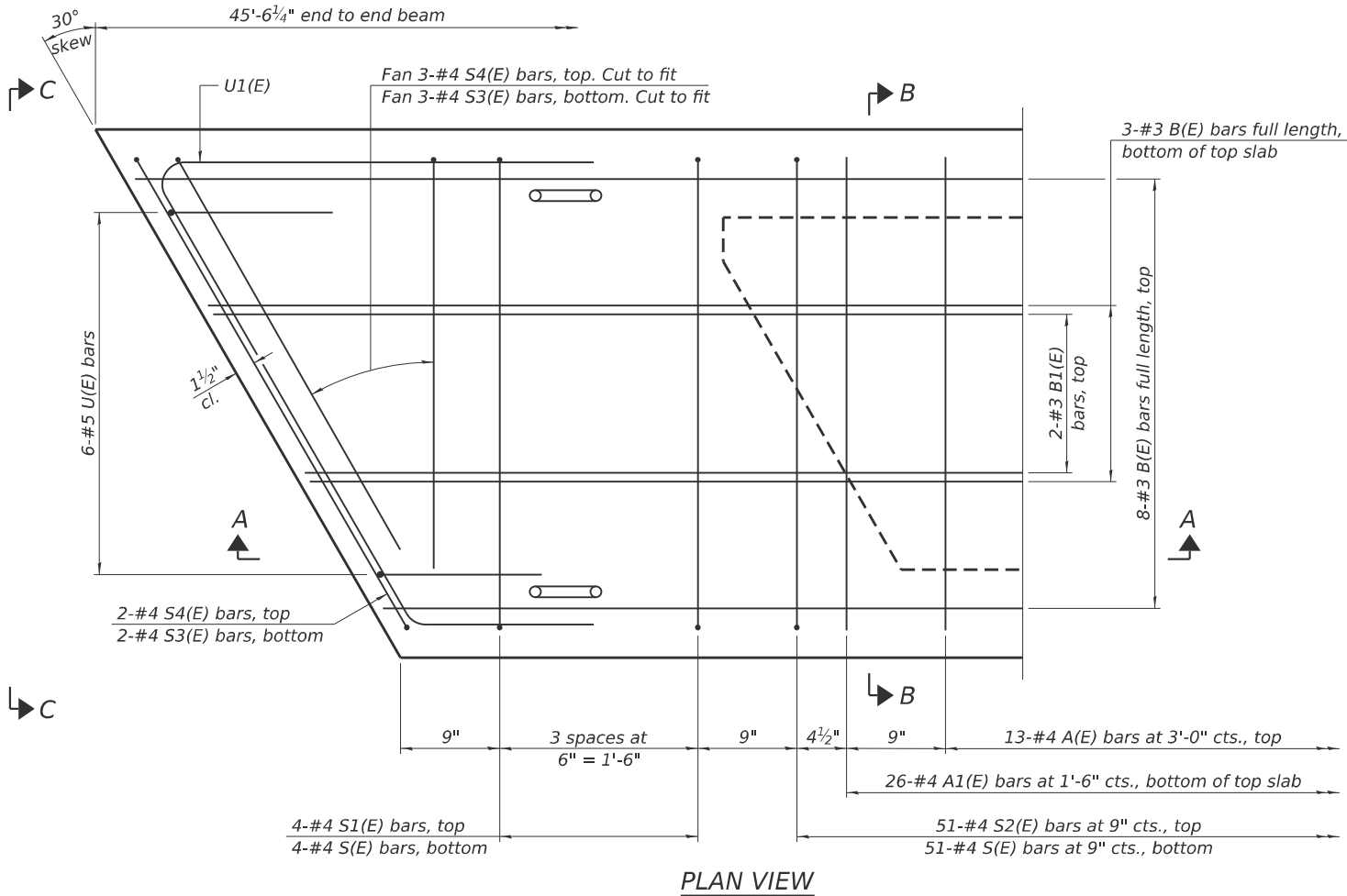
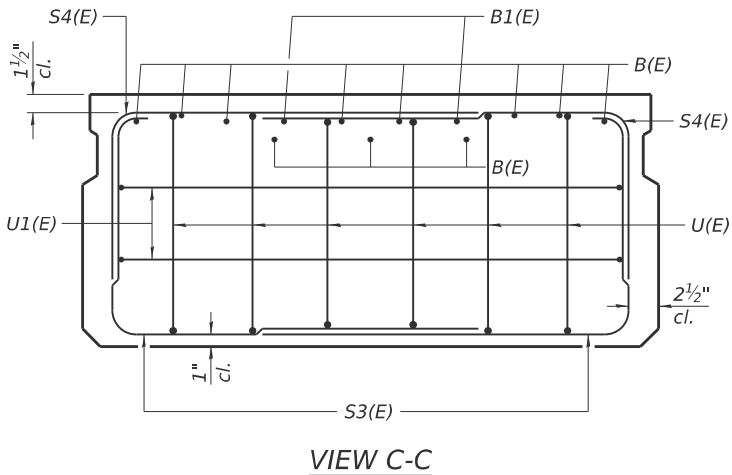
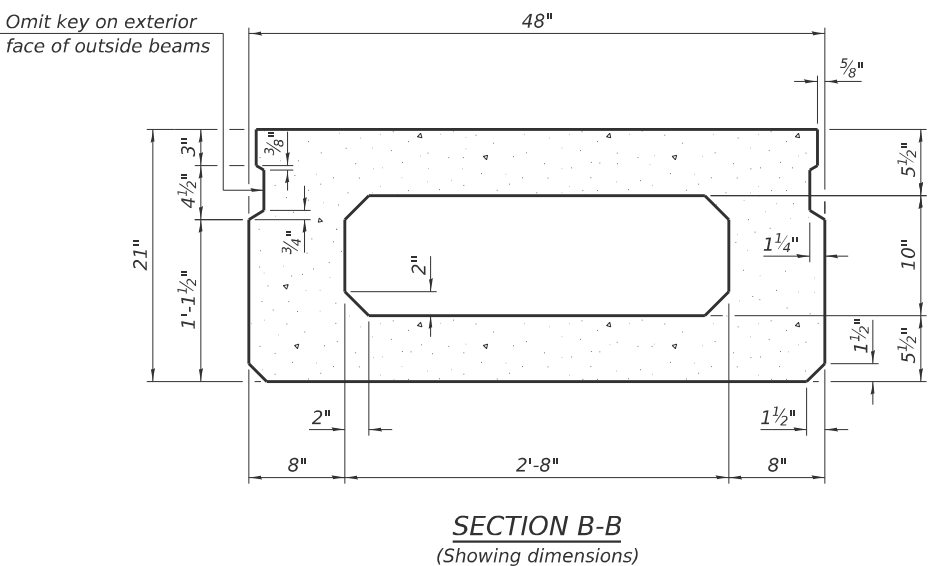
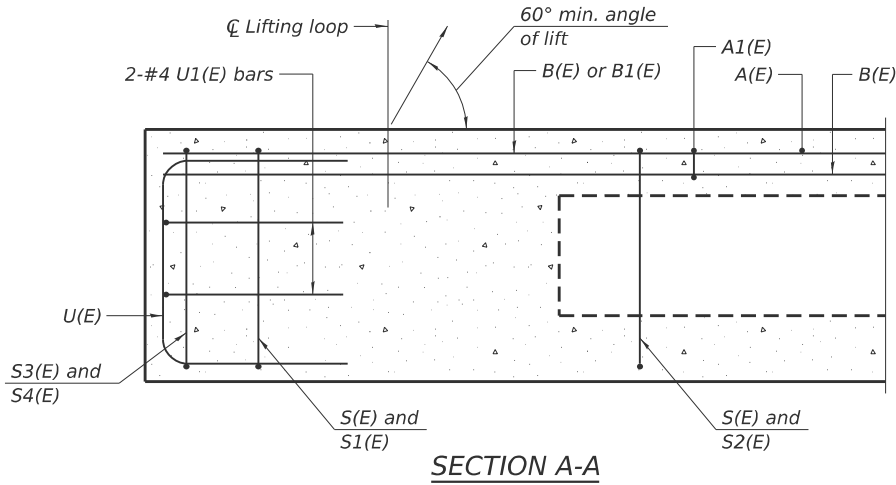
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 48" PPC DECK BEAM
STRUCTURE NO. 060-6113

SHEET 7 OF 13 SHEETS

MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1025	24-00245-00-BR	MADISON	22	16
SN 060-6113		CONTRACT NO. 97908		
ILLINOIS		FED. AID PROJECT		



SECTION B-B
(Showing reinforcement and permissible strand locations)
Note:
Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MINIMUM BAR LAP
#3 bar = 1'-4"

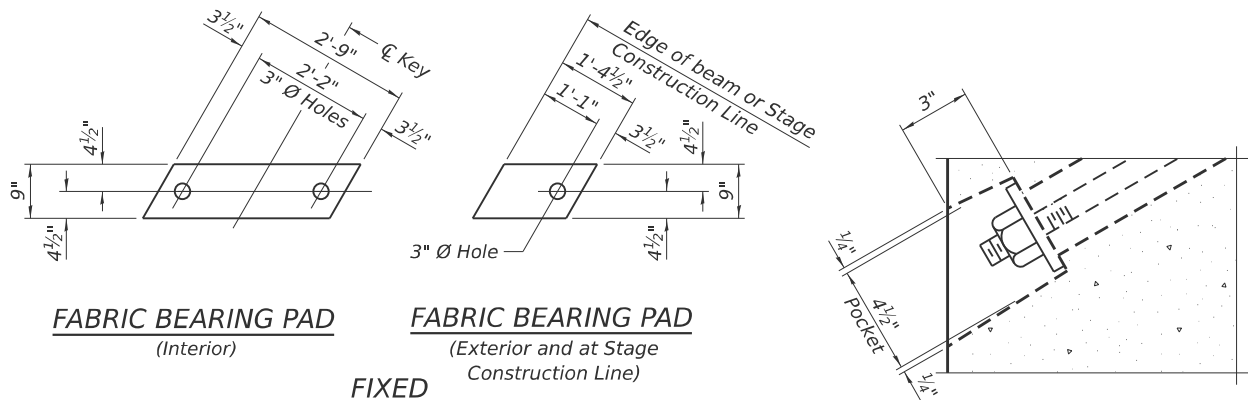
Note:
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	13	#4	3'-7"	—
A1(E)	26	#4	3'-10"	—
B(E)	11	#3	45'-1"	—
B1(E)	4	#3	10'-0"	—
S(E)	59	#4	7'-5"	┌┐
S1(E)	8	#4	5'-11"	┌┐
S2(E)	51	#4	6'-2"	┌┐
S3(E)	10	#4	5'-2"	┌┐
S4(E)	10	#4	4'-5"	┌┐
U(E)	12	#5	4'-0"	┌┐
U1(E)	4	#4	8'-6"	┌┐

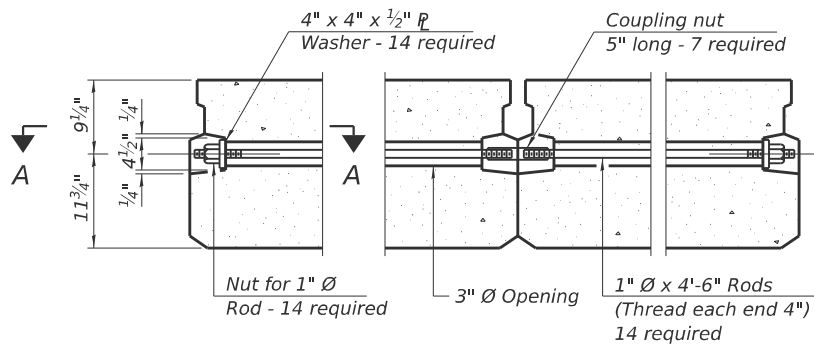
Note:
See sheet 8 of 13 for additional details and Bill of Material.
See sheets 5 & 6 of 13 for additional details for Staging and Railing.

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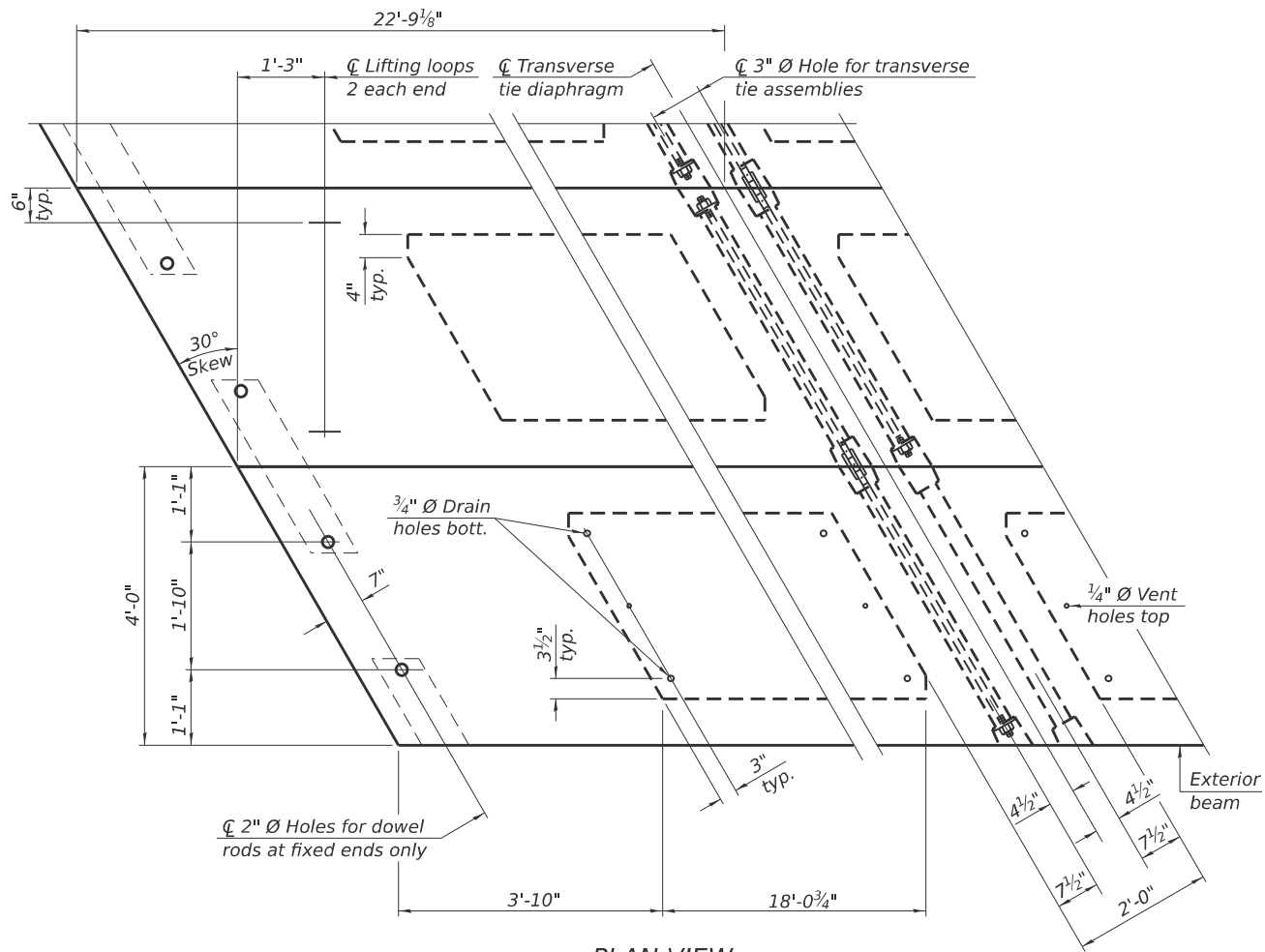
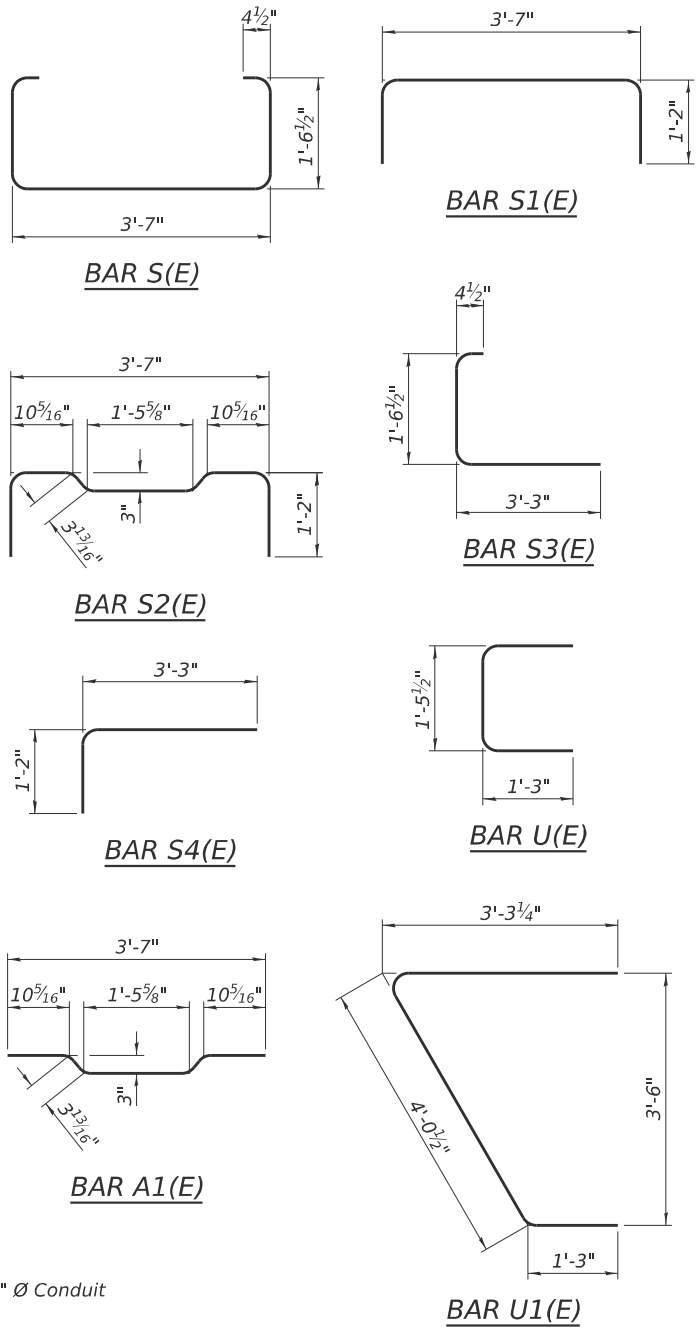
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pads shall be bonded to the substructure.

SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

Temporarily use nut and washer in place of coupling nut at Stage Construction Line.



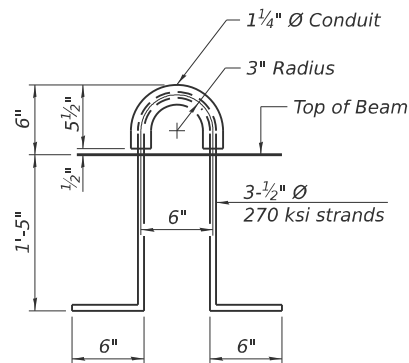
PLAN VIEW

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Concrete Deck Beams (21" Depth)	Sq Ft	1,457
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PDD-2148-R (Modified) 5-15-2023



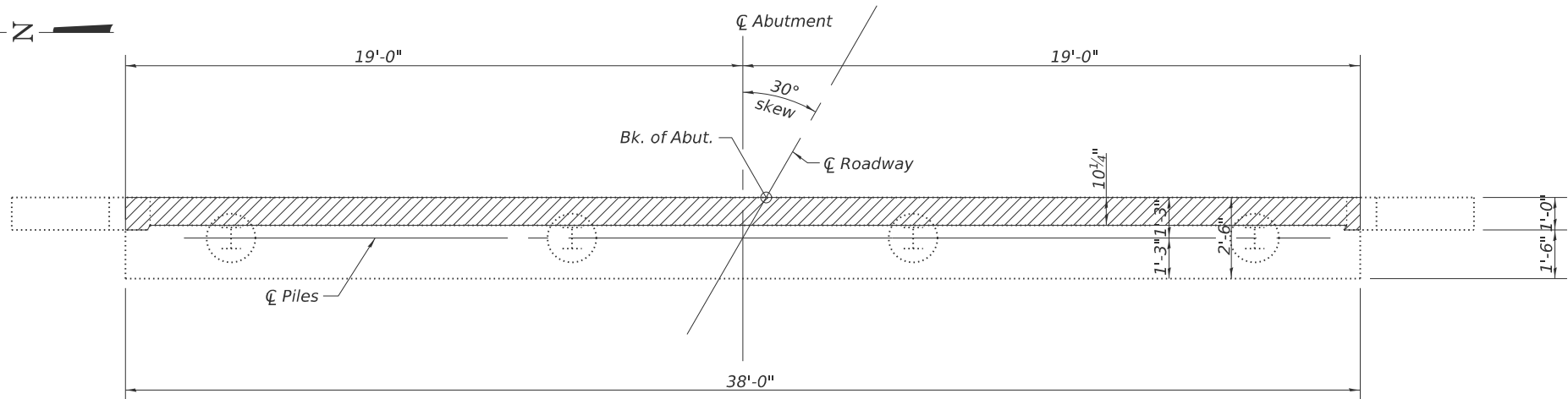
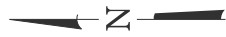
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 060-6113

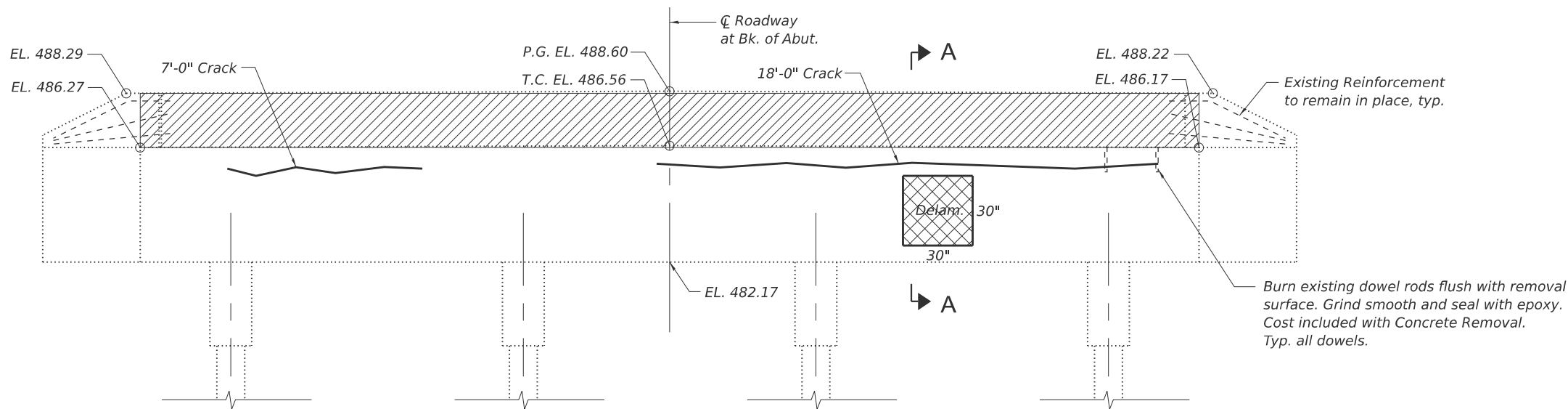
SHEET 8 OF 13 SHEETS

MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	SN 060-6113		CONTRACT NO. 97908	
	ILLINOIS	FED. AID PROJECT		



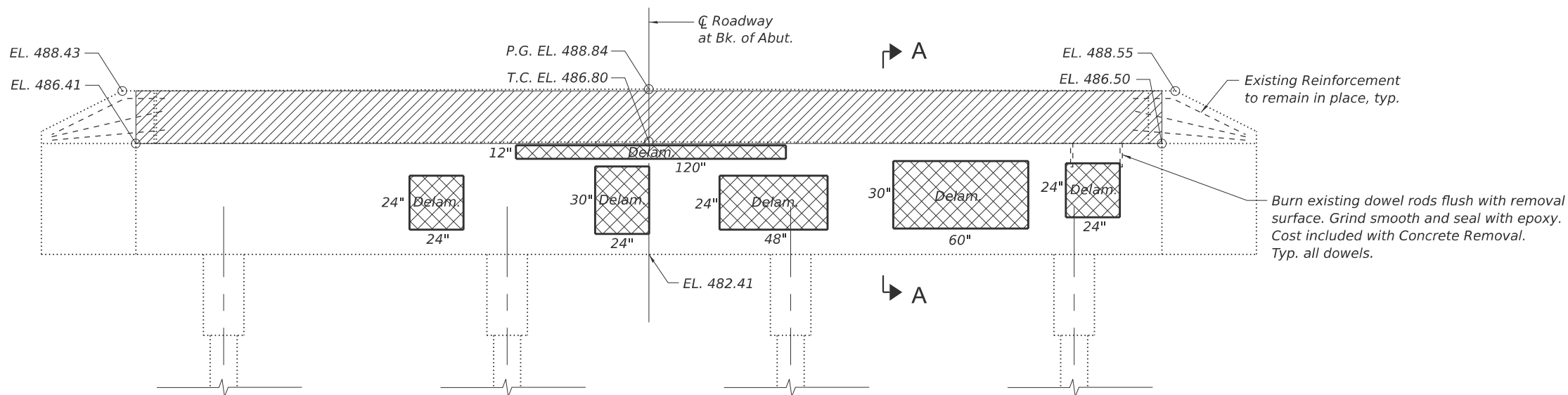
PLAN

(East Abutment shown, West Abutment similar)



EAST ABUTMENT ELEVATION

(LOOKING EAST)

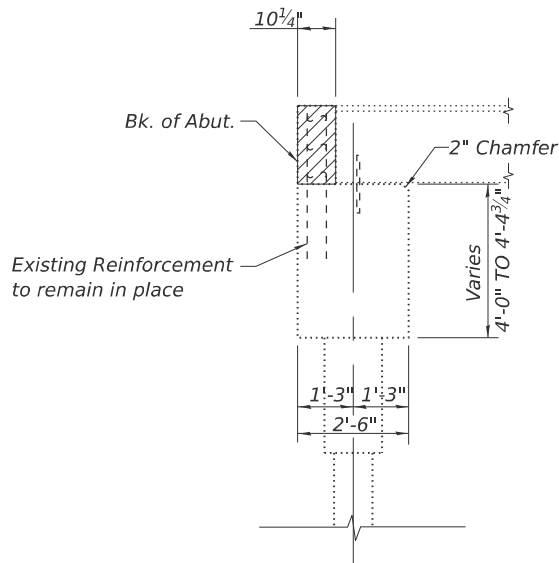


WEST ABUTMENT ELEVATION

(LOOKING WEST)

NOTES:

- Existing reinforcement extending into new construction shall be cleaned, straightened, and incorporated into the new construction. Cost included with Concrete Removal.
- Any reinforcement bars that are damaged during Concrete Removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.



SECTION A-A

LEGEND

- Concrete Removal
- Structural Repair of Concrete (Depth equal or less than 5 inches)
- Epoxy Crack Injection

BILL OF MATERIAL

Concrete Removal	Cu Yd	4.9
Structural Repair of Concrete (Depth equal or less than 5 inches)	Sq Ft	50
Epoxy Crack Injection	Foot	25

MODEL: 09Abut_Rem-Rep
FILE NAME: X:\Production\Files\2025\425-000\1CAD\Structures\4250001_Pebble_Creek_StructureRepairSheets.dgn



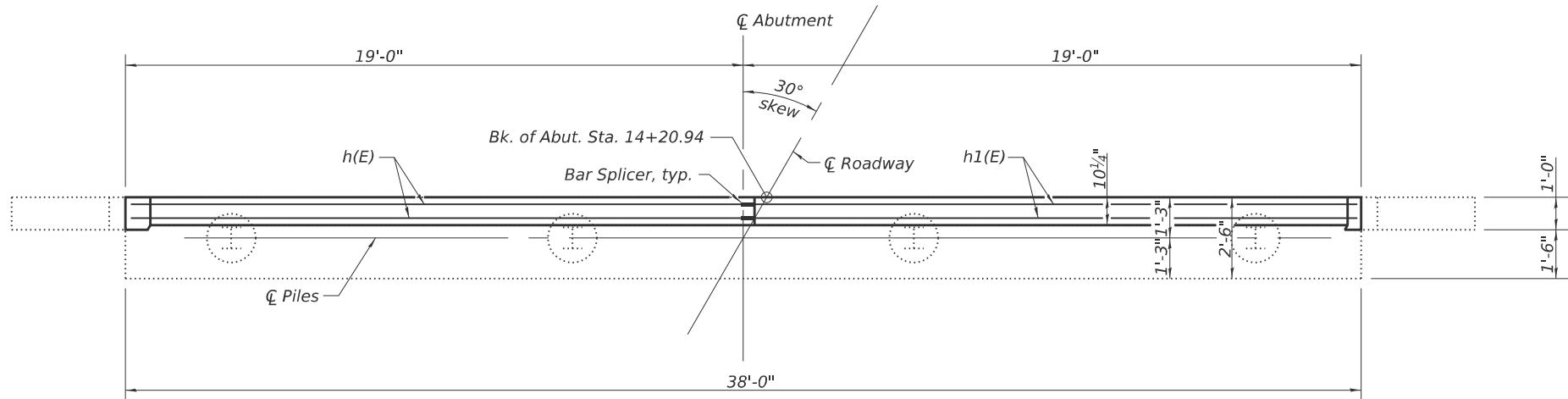
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**STATE OF ILLINOIS
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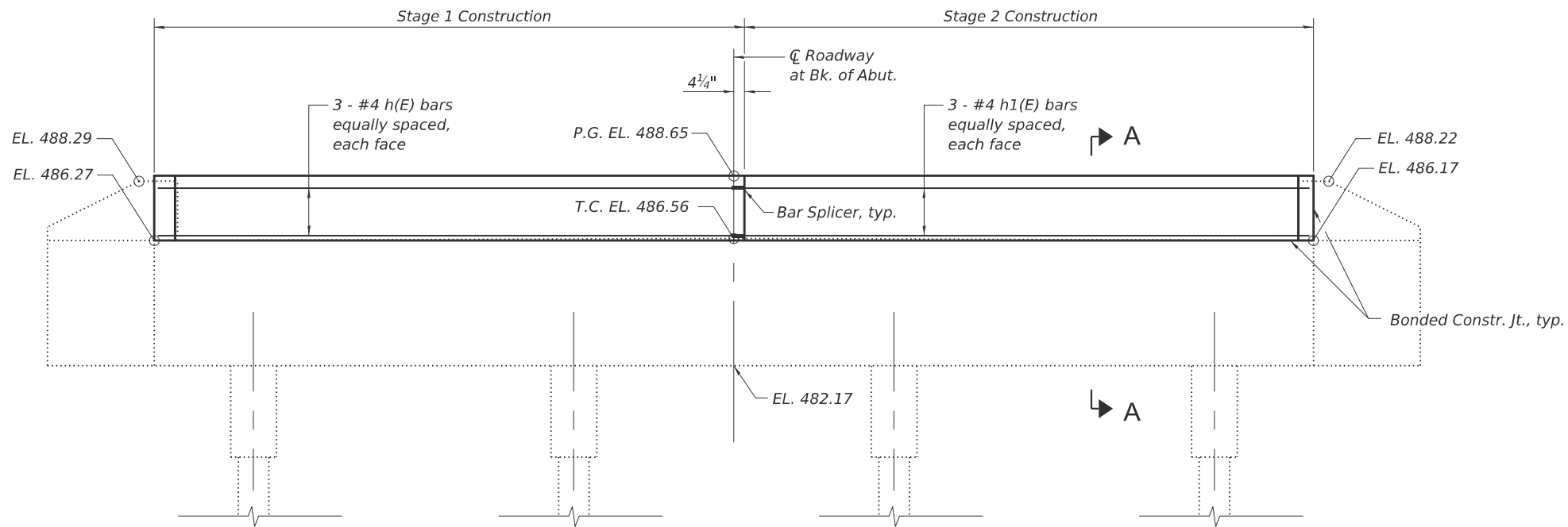
**ABUTMENT REMOVAL AND REPAIRS
STRUCTURE NO. 060-6113**

SHEET 9 OF 13 SHEETS

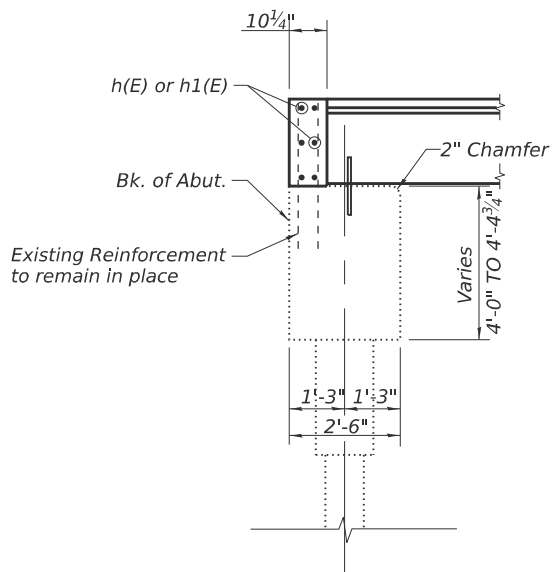
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1025	24-00245-00-BR	MADISON	22	18
SN 060-6113		CONTRACT NO. 97908		
		ILLINOIS	FED. AID PROJECT	



PLAN



ELEVATION
(LOOKING EAST)



SECTION A-A
(Dimensions are at Rt. angles)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	6	#4	19'-1"	
h1(E)	6	#4	18'-4"	
Concrete Structures			Cu Yd	2.5
Reinforcement Bars, Epoxy Coated			Pound	150
Bar Splicers			Each	6

MODEL: 10EastAbut
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 060-6113
SHEET 10 OF 13 SHEETS

MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1025	24-00245-00-BR	MADISON	22	19
SN 060-6113		CONTRACT NO. 97908		
		ILLINOIS	FED. AID PROJECT	

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PLOT SCALE =		DRAWN -	WJS	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

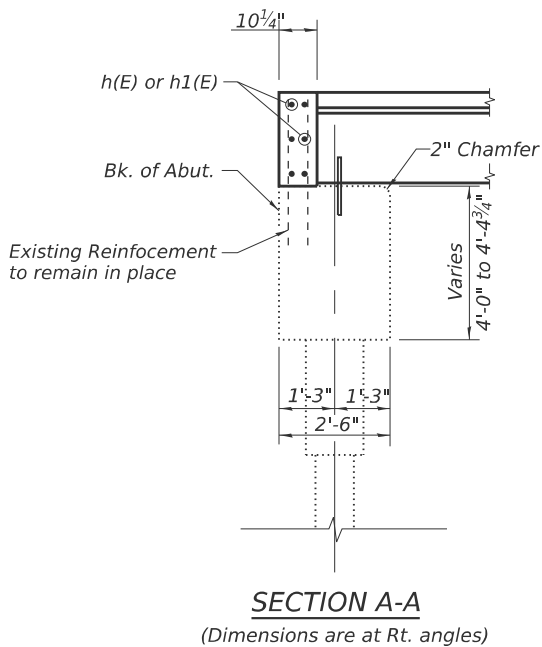
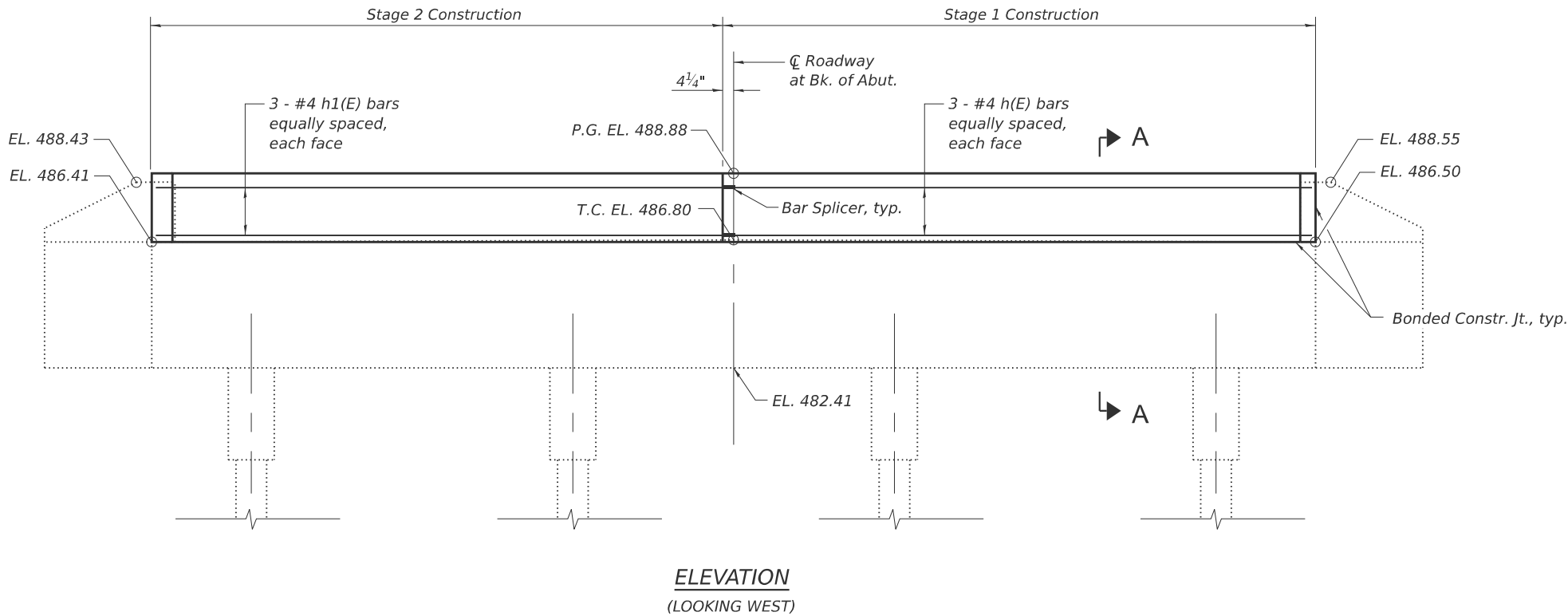
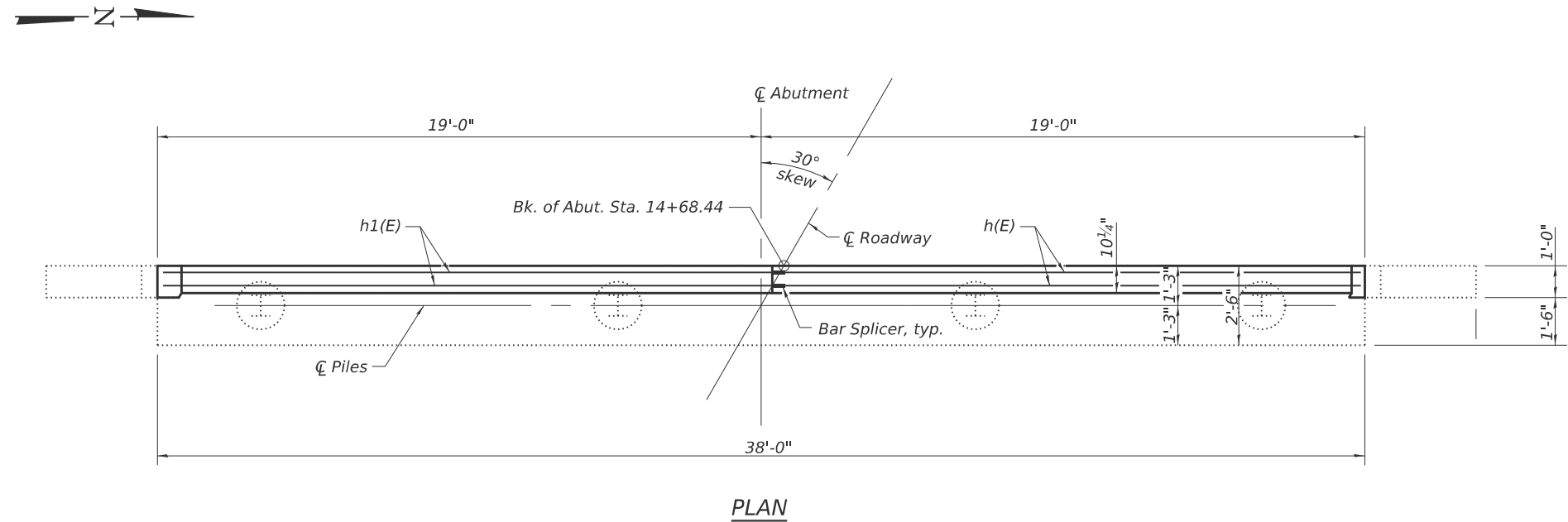
WEST ABUTMENT
STRUCTURE NO. 060-6113

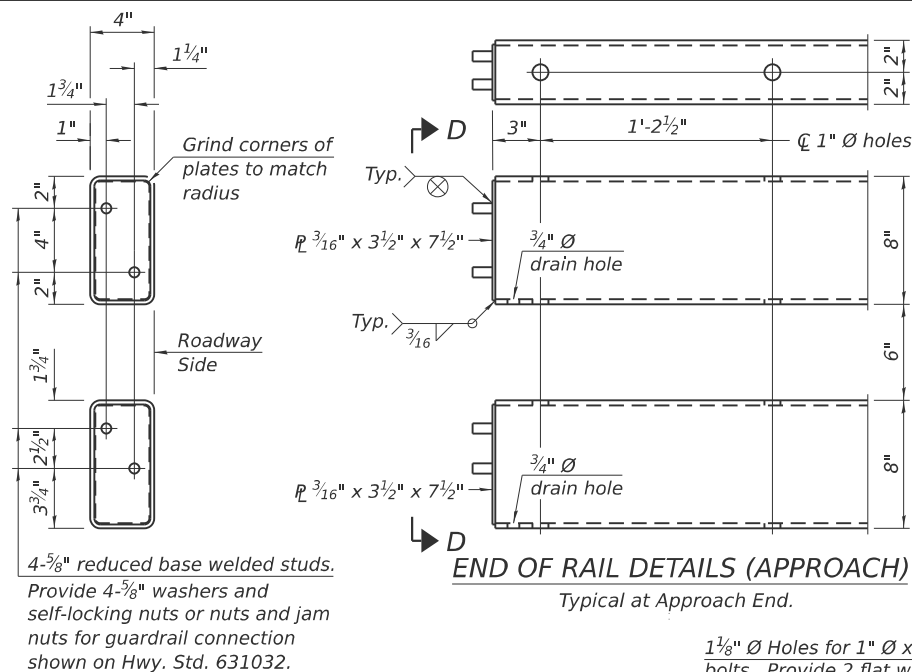
SHEET 11 OF 13 SHEETS

MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1025	24-00245-00-BR	MADISON	22	20
SN 060-6113		CONTRACT NO. 97908		
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BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	6	#4	19'-1"	————
h1(E)	6	#4	18'-4"	————
Concrete Structures			Cu Yd	2.5
Reinforcement Bars, Epoxy Coated			Pound	150
Bar Splicers			Each	6





Technical drawing of a bolt and nut assembly. The bolt is 1 1/2 inches long with a 3/8 inch diameter. The nut is 3/4 inch long. The bolt has a 1/8 inch max. thread length. The drawing is labeled "As Required".

Figure 10 shows two diagrams illustrating the correct way to dimension a hole in a part. The left diagram, labeled "With Slot (shown) or Approved Recess", shows a hole with a slot and dimensions 1 1/2" for the hole diameter and 1/8" for the slot width. The right diagram, labeled "Without Slot or Recess", shows a hole with a diameter dimension of 1 1/2" and a tolerance of +/- .005".

[illegible]

Item	Unit	Quantity
Steel Railing, Type SMX	Foot	91

1 1/8" Ø Holes for 1" x 4" Round head bolts. Provide 2 flat washers & locknuts for Curled End Section connection.

8"

1"

1/4"

2"

4"

3/4" Ø Drain Hole

3/4"

1/4"

2"

1"

3/16"

2"

5"

1/4"

3/4"

Traffic side of rail

Typical at Exit End for top and bottom rail.
See sheet 3 of 13 for Curled End Section details.

[illegible]

** Threaded areas shall be plugged or blocked off during casting of concrete.

*** Alternatively provide 1/4" all-around fillet weld.

* The outermost longitudinal reinforcement bar and 3 transverse reinforcement bars shall be placed directly above the studs of the rail post anchorage assembly as shown in the superstructure details.

Technical drawing of a rectangular box with the following specifications:

- Side plates: $P \frac{3}{8}'' \times 6 \frac{5}{8}'' \times D$ Each side
- Top & Bottom plates: $P \frac{3}{8}'' \times 2 \frac{1}{2}'' \times D$
- Hex nuts conforming to ASTM A563 Grade A for $\frac{5}{8}'' \varnothing$ bolts.
- Typ. $\frac{3}{16}''$ (fillet weld)
- $\frac{5}{8}'' \varnothing \times 1 \frac{3}{4}''$ A307 bolts with flat washers
- $\frac{1}{16}'' \varnothing$ Holes in $\frac{3}{8}'' P$
- $\frac{3}{4}'' \varnothing$ Holes in HSS section
- $\frac{1}{4}''$ (fillet weld)

Typ. $\frac{3}{16}$

Hex nuts conforming to ASTM A563 Grade A for $\frac{5}{8}$ " $\varnothing$ bolts.

$\frac{5}{8}$ " $\varnothing$ x $1\frac{3}{4}$ " A307 bolts with flat washers & $\frac{3}{4}$ " $\varnothing$ XS pipe spacers, $\frac{1}{2}$ " long

$1\frac{1}{16}$ " $\varnothing$ Holes in $\frac{3}{8}$ " R

$1\frac{1}{8}$ " x E Slotted holes in HSS section

Location	T	A	B	C	D	E
All locs. not over exp. jts.	0	1/4"	4"	4"	1'-8"	-
Over Strip Seal Jt.	≤4"	2 1/2"	4 5/8"	4 3/8"	1'-10"	3 1/16"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	7 3/8"	7 1/4"	2'-9 1/4"	5 13/16"
Over Finger or Modular Jt.	≤15"	8 1/2"	10 1/2"	10"	3'-8 1/4"	8 1/2"

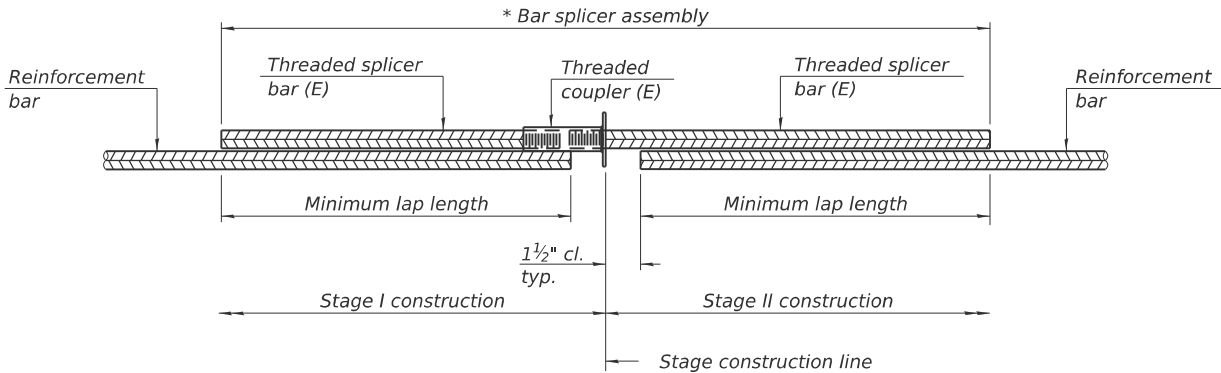
<i>MASH 2016 Test Level</i>	3
<i>Railing Weight (plf)</i>	90
<i>Min P_c (psi)</i>	4,000
<i>Max Post Spacing</i>	6'-3"
<i>CWS thickness range (in)</i>	5 - 7 $\frac{1}{8}$

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SMX
STRUCTURE NO. 060-6113

SHEET 12 OF 13 SHEETS

MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1025	24-00245-00-BR	MADISON	22	21
SN 060-6113		CONTRACT NO. 97908		
ILLINOIS		FED. AID PROJECT		



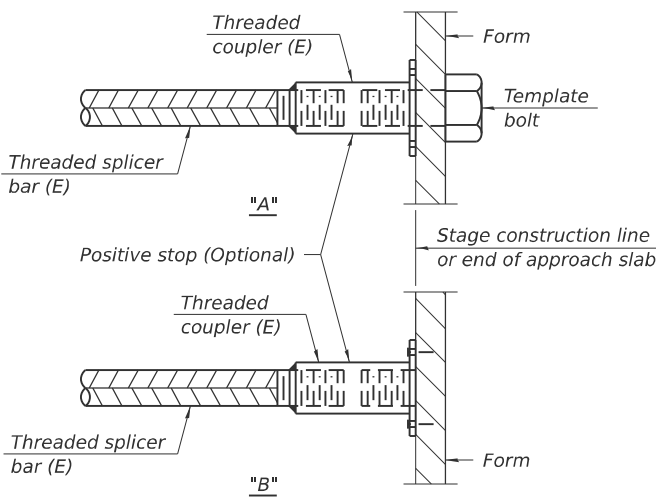
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1½" + thread length

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

Location	Bar size	No. assemblies required	Minimum lap length
Abutments	#4	12	1'-8"
Overlay	#4	45	1'-8"

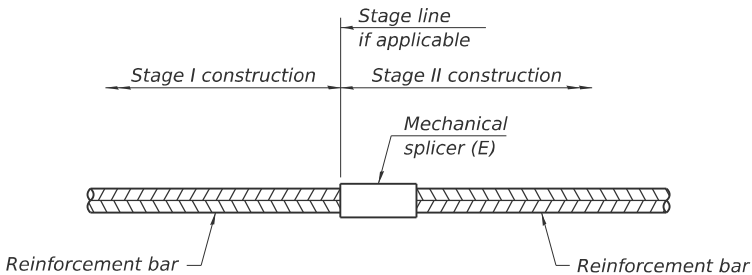


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

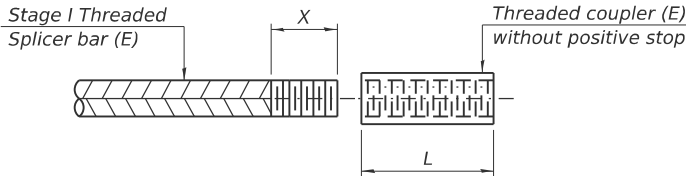
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

- 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 alternatives.

MODEL: 13BarSplicer
FILE NAME: X:\Production\Files\2025\425-000\1\CAD\Structures\4250001_Pebble_Creek_StructureRepairSheets.dgn

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STATE OF ILLINOIS
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BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 060-6113

SHEET 13 OF 13 SHEETS

MS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1025	24-00245-00-BR	MADISON	22	22
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