

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(140BR-1)BP	KANKAKEE	14	1
		ILLINOIS	CONTRACT NO. 66P84	

INDEX OF SHEETS

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8. TEMPORARY RUMBLE STRIPS (SPECIAL)
9. GUARDRAIL / BARRIER WALL DELINEATION DETAILS
10. TYPICAL PAVEMENT MARKING
- 11 - 14. EXISTING STRUCTURE PLANS FOR STRUCTURE NO. 046-0114 FOR INFORMATION ONLY

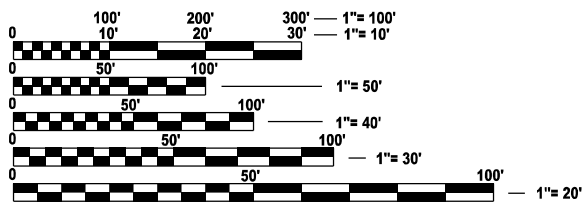
**PROPOSED
HIGHWAY PLANS**

**F.A.I. ROUTE 57 (I-57)
SECTION (140BR-1)BP
PROJECT
BRIDGE PAINTING
KANKAKEE COUNTY
C-93-027-25**

HIGHWAY STANDARDS

- | | |
|-----------|--|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001006 | DECIMAL OF AN INCH AND OF A FOOT |
| 701101-05 | OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24' (600 mm) FROM PAVEMENT EDGE |
| 701106-02 | OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY |
| 701426-09 | LANE CLOSURE, MULTILANE INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH |
| 701428-01 | TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY |
| 701901-10 | TRAFFIC CONTROL DEVICES |
| 704001-08 | TEMPORARY CONCRETE BARRIER |

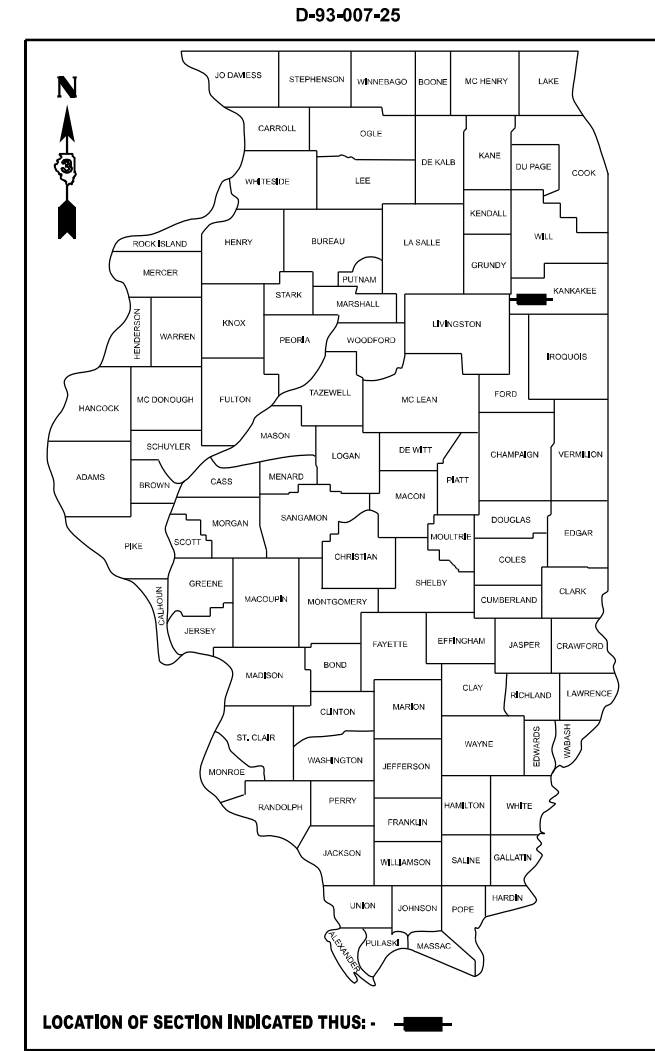
PROJECT LOCATION NO. 1
STRUCTURE NO. 046-0114
SECTION (140BR-1)BP
STA. 500+42.30
CARRYING SOUTHBOUND LANES OF
F.A.I. ROUTE 57 (I-57)
OVER MINNIE CREEK
4.3 MILES NORTH OF CHEBANSE INTERCHANGE



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

PROJECT ENGINEER YOGESH PATEL P.E.
UNIT CHIEF RON WOODSHANK
DISTRICT 3 (815) 434-6131
CONTRACT NO. 66P84



FUNCTIONAL CLASSIFICATION
RURAL - INTERSTATE
F.A.I. ROUTE 57 (I-57)
2021 ADT = 20500
P.V. 68.2 % S.U. 3.5 % M.U. 28.3 %

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED December 11, 2024
Trisha Thompson REGIONAL ENGINEER
January 31, 2025
Scott A. [Signature] ENGINEER OF DESIGN AND ENVIRONMENT
January 31, 2025
[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS**

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS 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 WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

THE CONTRACTOR SHALL BE REQUIRED TO SECURE WASTE CONTAINERS THAT REMAIN ON THE JOB SITE. THIS WILL ENTAIL THAT ALL WASTE CONTAINERS CANNOT BE MOVED OR OPENED DURING NON-WORKING HOURS.

WORKING DAYS SHALL BE CHARGED UNTIL THE CONTRACTOR OR SUBCONTRACTOR LICENSED T O DISPOSE OF LEAD OR NON-LEAD PAINT CLEANING RESIDUES HAS REMOVED THE WASTE MATERIAL FROM THE JOB SITE ACCORDING TO ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. IF THE LICENSED CONTRACTOR OR SUBCONTRACTOR FAILS TO DISPOSE OF THE LEAD OR NON-LEAD PAINT CLEANING RESIDUES ON OR BEFORE THE SPECIFIED NUMBER OF WORKING DAYS, LIQUATED DAMAGES SHALL BE CHARGED PER CALENDAR DAY ACCORDING TO ARTICLE 108.09 OF THE STANDARD SPECIFICATIONS UNTIL SUB TIME THAT ALL PAINT RESIDUE MATERIALS HAVE BEEN REMOVED OFF THE SITE AND DISPOSED OF.

STRUCTURE NOTES

STRUCTURE NO. 046-0114 SHALL BE CONSIDERED AS "LOCATION 1".

EXISTING STRUCTURAL STEEL COATING(S) ON STRUCTURE NO. 046-0114 ARE NON-LEAD BASED COATINGS. CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES" AND THE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES" AND AS SPECIFIED BELOW.

SSPC-QP1 "PAINTING CONTRACTOR CERTIFICATIONS" SHALL BE REQUIRED FOR THIS STRUCTURE.

CLEANING AND PAINTING EXISTING STRUCTURAL STEEL

(a) ALL EXISTING STRUCTURAL STEEL, INCLUDING I-BEAMS, BOX BEAMS, GIRDERS, DIAPHRAGMS, CROSS/LATERAL FRAMING, STEEL COMPONENTS OF EXISTING BEARINGS, STEEL FLOOR DRAINS (WHEN PRESENT), STEEL HANDRAILS (WHEN PRESENT) SHALL BE CLEANED PER THE REQUIREMENTS OF "NEAR WHITE BLAST CLEANING - SSPC-SP-10".

ALUMINUM HANDRAILS, WHEN PRESENT SHALL NOT BE CLEANED AND PAINTED.

(b) ALL EXISTING STRUCTURAL STEEL, INCLUDING I-BEAMS, BOX BEAMS, GIRDERS, DIAPHRAGMS, CROSS/LATERAL FRAMING, STEEL COMPONENTS OF EXISTING BEARINGS, STEEL FLOOR DRAINS (WHEN PRESENT), STEEL HANDRAILS (WHEN PRESENT) SHALL BE PAINTED PER THE REQUIREMENTS OF "PAINT SYSTEM 1-OZ/E/U".

1) THE FINAL FINISH COAT FOR ALL INTERIOR STRUCTURAL STEEL SHALL BE "GRAY, MUNSELL O. 5B 7/1".

2) THE FINAL FINISH COAT FOR THE EXTERIOR FACE, BOTTOM FLANGE AND BEARING ASSEMBLIES OF THE FASCIA BEAMS SHALL BE "GREEN, MUNSELL NO. 7.5G 1/2".

COMITMENTS

NONE

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION**

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

**START & END DATES
OF CONSTRUCTION:**

INSPECTORS:

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USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/21/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION, STANDARD 701400
FOR STRUCTURE NO. 046-0114**

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

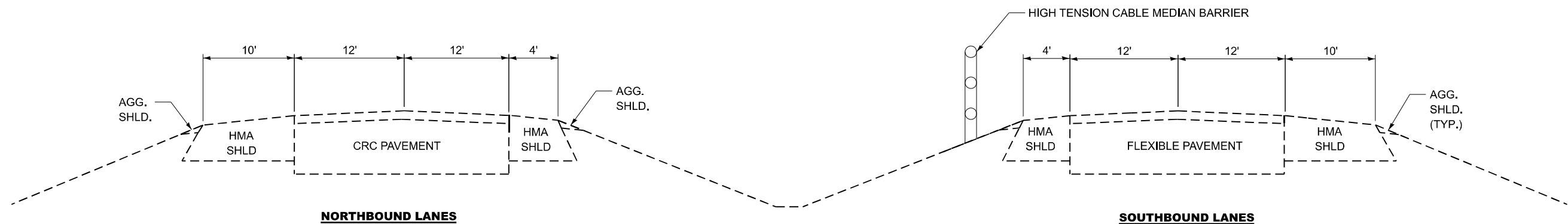
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(140BR-1)BP	KANKAKEE	14	2
CONTRACT NO. 66P84				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				BRIDGE PAINTING 100% STATE BRIDGE 0047 S.N. 046-0114
67100100	MOBILIZATION	L SUM	1	1
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	14	14
70300100	SHORT TERM PAVEMENT MARKING	FOOT	195	195
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	65	65
70400100	TEMPORARY CONCRETE BARRIER	FOOT	450	450
70600251	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1
* 78004630	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 6"	FOOT	490	490
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	515	515
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	415	415
X5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
X5067501	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1	L SUM	1	1
X7010118	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	4	4
X7010208	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)	EACH	1	1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1

*SPECIALITY ITEMS

MODEL: Default
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USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - RW	REVISED -					57	(140BR-1)BP	KANKAKEE	14	3
	CHECKED - YP	REVISED -		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		CONTRACT NO. 66P84		
PLOT DATE = 8/21/2024	DATE - 5/21/2024	REVISED -									



TYPICAL SECTION
STA. 478+56.83 TO STA. 659+71.50
 LOOKING SOUTH

MODEL: Default
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	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/21/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(140BR-1)BP	KANKAKEE	14	4
CONTRACT NO. 66P84				
ILLINOIS FED. AID PROJECT				

SCHEDULE - TRAFFIC CONTROL AND PROTECTION

LOCATION	TRAFFIC CONTROL AND PROTECTION STANDARD 701402 (SPECIAL)	CHANGEABLE MESSAGE SIGN	TEMPORARY RUMBLE STRIPS (SPECIAL)	TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY NON-REDIRECTIVE, NARROW TEST LEVEL 3
SN 046-0114	EACH	CAL DA	EACH	FOOT	EACH
PROJECT	1	14	4	450	1
TOTAL	1	14	4	450	1

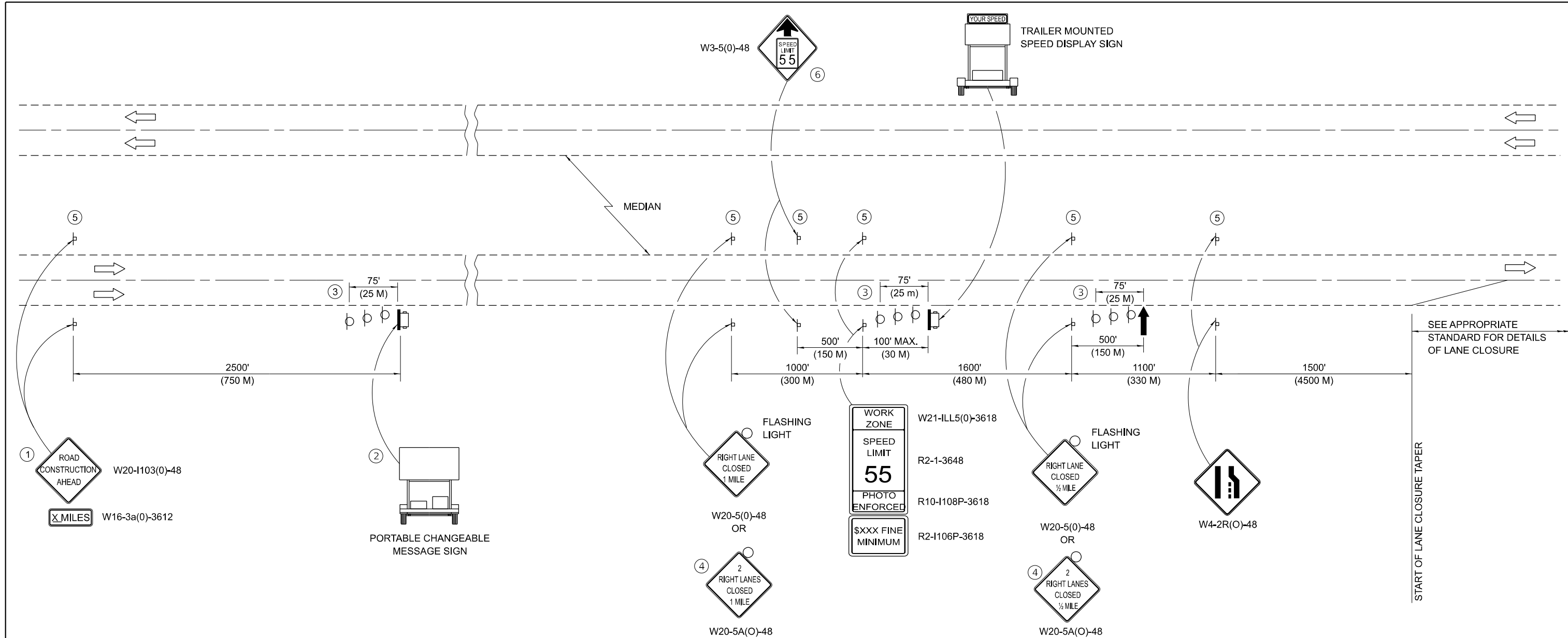
SCHEDULE - PAVEMENT MARKING

LOCATION	SHORT TERM PAVEMENT MARKING	POLYUREA PAVEMENT MARKING TYPE I LINE 4"		PREFORMED PLASTIC PAVEMENT MARKING TYPE D STANDARD LINE 6"	PAVEMENT MARKING REMOVAL WATERBLASTING		SHORT TERM PAVEMENT MARKING REMOVAL
	FOOT	FOOT		FOOT	SQ FT		SQ FT
SN 046-0114	WHITE	YELLOW	WHITE	WHITE	LINE 4"	LINE 6"	
PROJECT	195	515	0	490	170	245	65
TOTAL	195	515		490	415		65

SCHEDULE - CLEANING AND PAINTING

LOCATION	CONTAINMENT AND DISPOSAL NON-LEAD PAINT CLEANING RESIDUES NO. 1	CLEANING AND PAINTING STEEL BRIDGE NO. 1	BRIDGE CLEANING AND PAINTING WARRANTY NUMBER 1
SN 046-0114	L SUM	L SUM	L SUM
PROJECT	1	1	1
TOTAL	1	1	1

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SYMBOLS

- ↑ ARROW BOARD
- ▭ TRAILER MOUNTED SIGN
- ⊥ SIGN
- ⊙ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT

- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 TO 5 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:
 "RIGHT LANE CLOSED" / " X MILES AHEAD"
 "LEFT LANE CLOSED" / " X MILES AHEAD"
 "ALL LANES OPEN"
- ③ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 25' (8 M) CENTERS.
- ④ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- ⑤ THIS SIGN SHALL BE OMITTED WHEN MEDIAN WIDTH IS LESS THAN 10' (3 M).
- ⑥ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

GENERAL NOTES

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY. WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST SIGN AND THE MESSAGE BOARD ARE STATIONARY.

THE LAST FOUR SIGNS AND ARROW BOARD SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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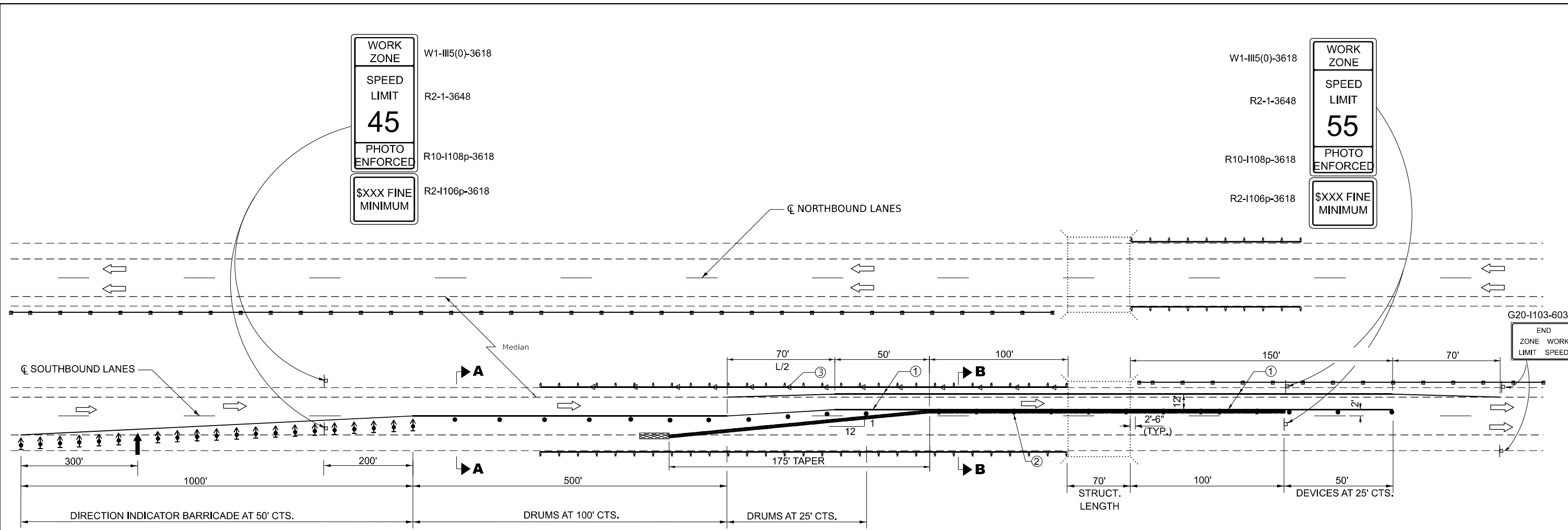
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	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/21/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION, STANDARD 701400
FOR STRUCTURE NO. 046-0114**

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

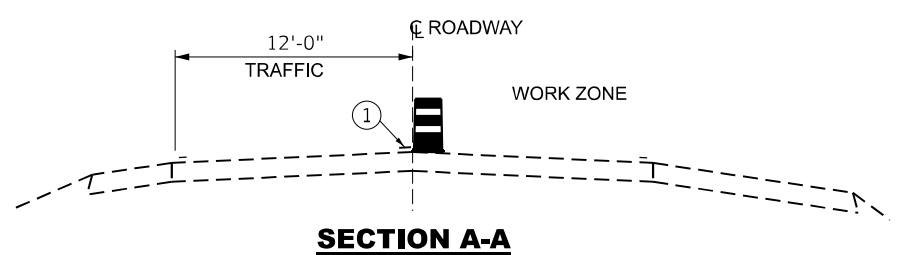
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57	(140BR-1)BP	KANKAKEE	14	6
CONTRACT NO. 66P84				
ILLINOIS FED. AID PROJECT				



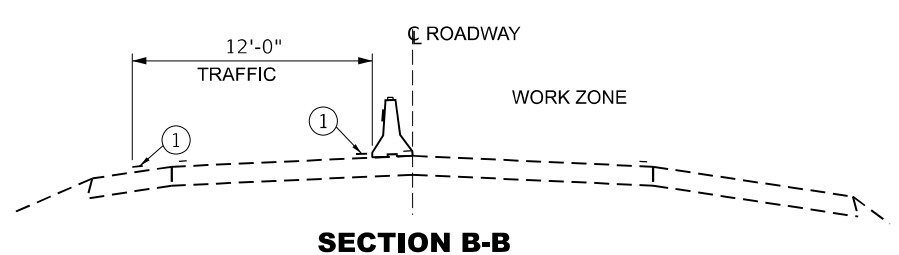
WORK ZONE W1-III5(0)-3618
 SPEED LIMIT R2-1-3648
45
 PHOTO ENFORCED R10-I108p-3618
 \$XXX FINE MINIMUM R2-I106p-3618

WORK ZONE W1-III5(0)-3618
 SPEED LIMIT R2-1-3648
55
 PHOTO ENFORCED R10-I108p-3618
 \$XXX FINE MINIMUM R2-I106p-3618

G20-I103-6036
 END ZONE WORK LIMIT SPEED



SECTION A-A



SECTION B-B

SYMBOLS

- ↑ ARROW BOARD
- ▨ WORK AREA
- ⊥ SIGN
- ↑ DIRECTION INDICATOR BARRICADE WITH STEADY BURN MONODIRECTIONAL LIGHT
- DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- ◁ MONODIRECTIONAL GUARDRAIL REFLECTOR
- ▨ IMPACT ATTENUATOR

- ① TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.
- ② BARRIER WALL REFLECTORS AT 25' CTS. MARKERS ON RIGHT SHALL BE CRYSTAL AND MARKERS ON LEFT SHALL BE AMBER. SEE STANDARDS 704001.
- ③ GUARDRAIL REFLECTORS AT 25' CTS.

GENERAL NOTES

THIS STANDARD IS USED WHERE AT ANY TIME ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES WILL ENCROACH ON THE PAVEMENT OR ON THE SHOULDER WITHIN 24 (600) OF THE EDGE OF PAVEMENT FOR DAYLIGHT OPERATION EXCEEDING ONE DAY AND WHERE TEMPORARY CONCRETE BARRIER IS UTILIZED.

THIS STANDARD MUST ALWAYS BE USED IN COMBINATION WITH STANDARD 701400.

WHEN WORK IS BEING PERFORMED IN THE LEFT LANE, THE SET UP WOULD BE A MIRROR IMAGE TO WHAT IS SHOWN.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

CALCULATE L AS FOLLOWS:

NORMAL POSTED SPEED: 45 MPH OR MORE

FORMULA: ENGLISH $L = (W)(S)$

W = WIDTH OF OFFSET IN FEET.

S = NORMAL POSTED SPEED IN MPH.

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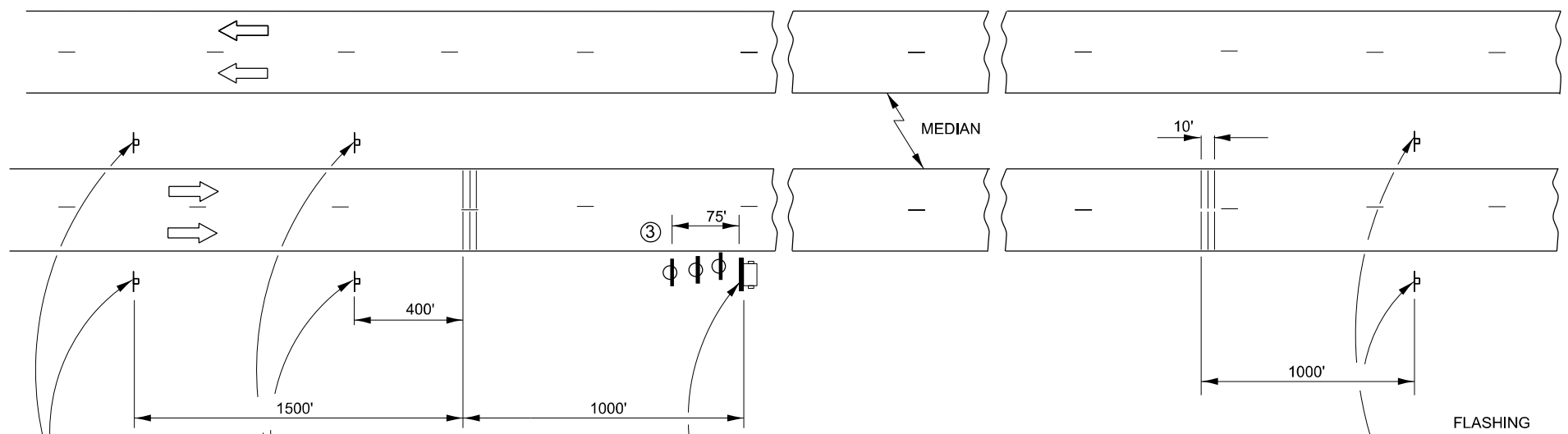
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PLOT DATE = 7/24/2024	DATE - 5/21/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION, STANDARD 701402 (SPECIAL)
 FOR STRUCTURE NO. 046-0114**

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

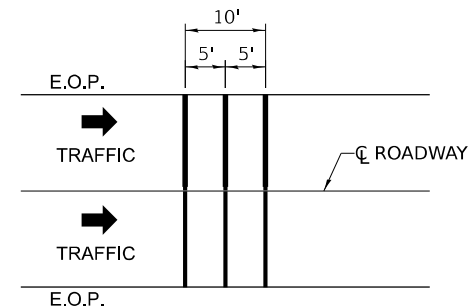
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			CONTRACT NO. 66P84	
ILLINOIS FED. AID PROJECT				



GENERAL NOTES

THIS DETAIL MUST BE USED IN COMBINATION WITH TRAFFIC CONTROL AND PROTECTION, STANDARD 701400 WHENEVER TEMPORARY RUMBLE STRIPS ARE REQUIRED.

FOR PAYMENT PURPOSES, EACH LANE OF TRAFFIC SHALL BE CONSIDERED AS "ONE EACH".



SYMBOLS

- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- TEMPORARY RUMBLE STRIPS (SEE SPECIAL PROVISION)
- RIGHT LANE CLOSED 1 MILE
W20-5(O)-48
OR
④ 2 RIGHT LANES CLOSED 1 MILE
W21-1106(O)-48
- FLASHING LIGHT

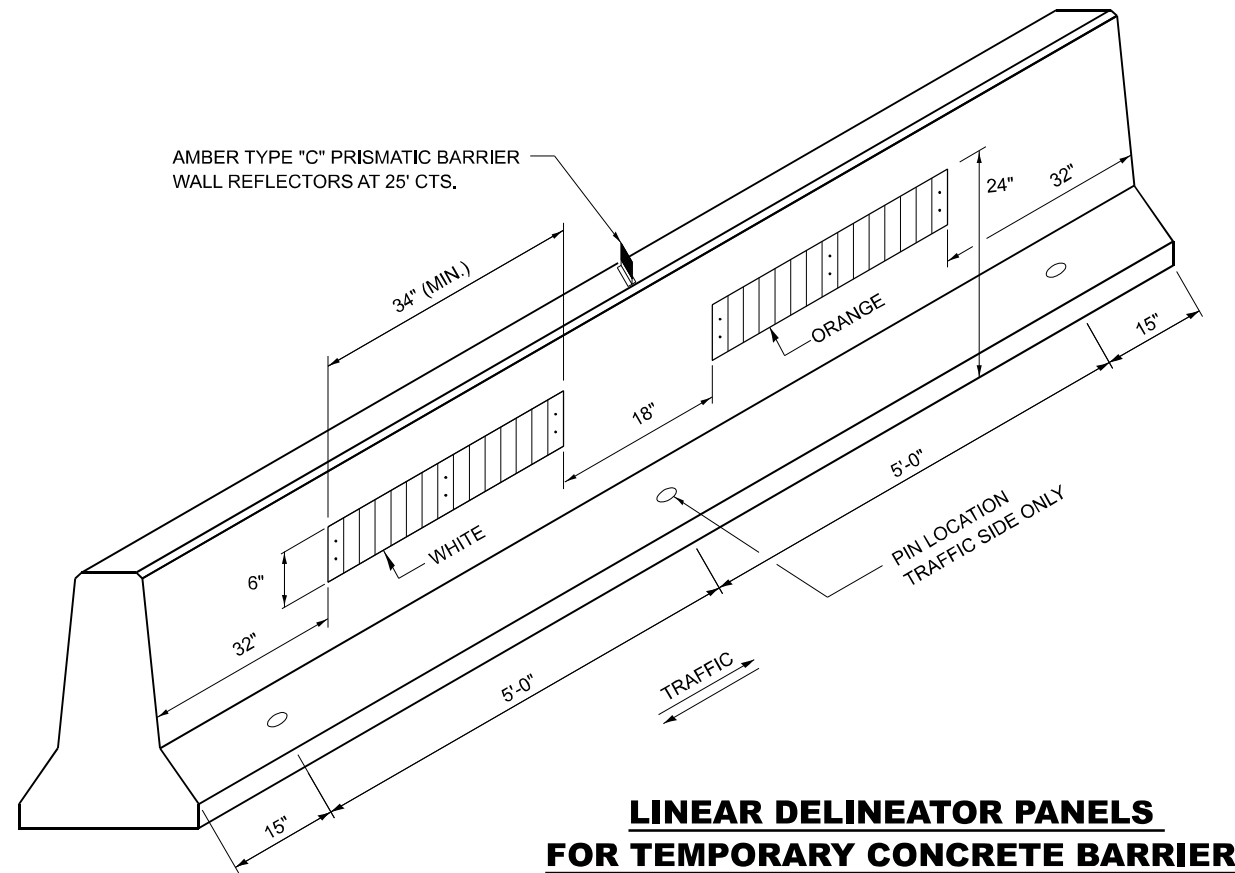
TEMPORARY RUMBLE STRIP (SPECIAL)

FOR PAYMENT PURPOSES, EACH LANE OF TRAFFIC SHALL BE CONSIDERED "ONE EACH".

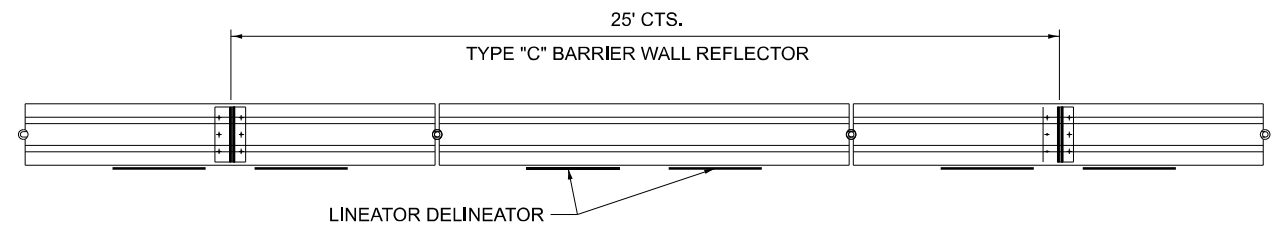
FREEWAYS AND EXPRESSWAYS

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USER NAME = ronald.woodshank PLOT DATE = 7/24/2024	DESIGNED - RW DRAWN - RW CHECKED - YP DATE - 6/7/2024	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY RUMBLE STRIPS (SPECIAL)	F.A.I. RTE. 57 SECTION (140BR-1)BP COUNTY KANKAKEE TOTAL SHEETS 14 SHEET NO. 8 CONTRACT NO. 66P84 ILLINOIS FED. AID PROJECT
			SCALE:	SHEET 1 OF 1 SHEETS	STA. TO STA.

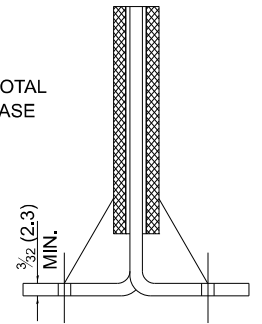
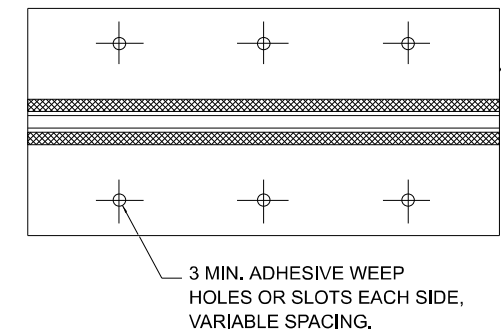
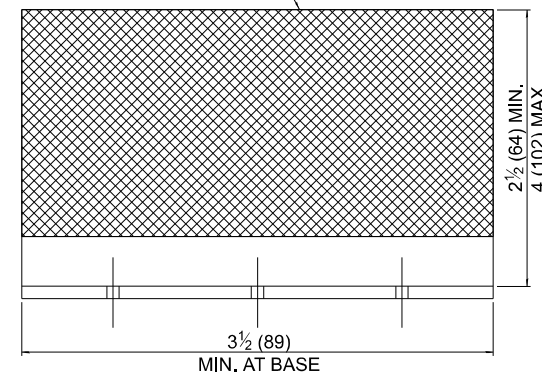


**LINEAR DELINEATOR PANELS
FOR TEMPORARY CONCRETE BARRIER**



TYPE "C" REFLECTOR FOR TEMPORARY CONCRETE BARRIER

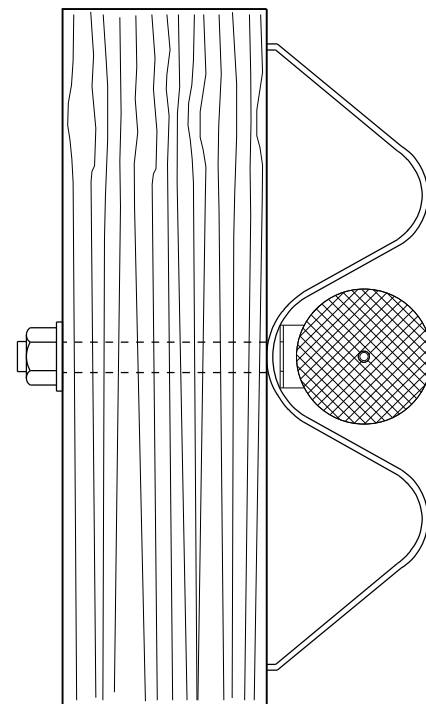
REFLECTIVE AREA, MAY BE RECTANGULAR OR SLIGHT TRAPEZOID.



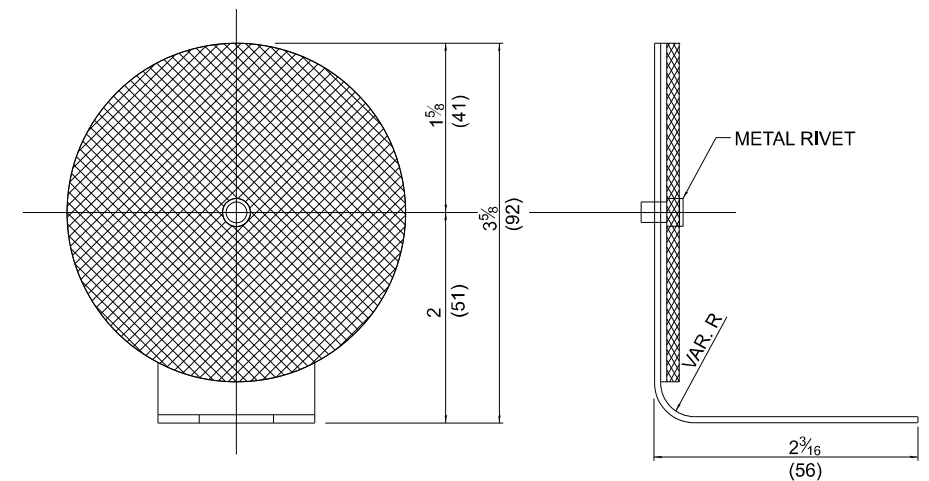
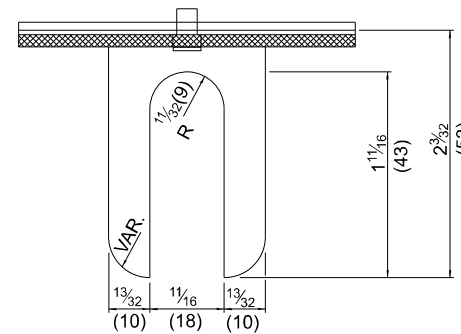
CROSS SECTION MAY BE "T" OR "L" SHAPED AND MAY HAVE SIDE SUPPORTS AT ENDS.

REFLECTOR TYPE C

TEMPORARY CONCRETE BARRAIER WALL



**TYPICAL MOUNTING DETAIL
FOR GUARDRAIL TYPE "A" REFLECTOR**



REFLECTOR TYPE A

(MONODIRECTIONAL SHOWN)
STEEL PLATE BEAM GUARDRAIL

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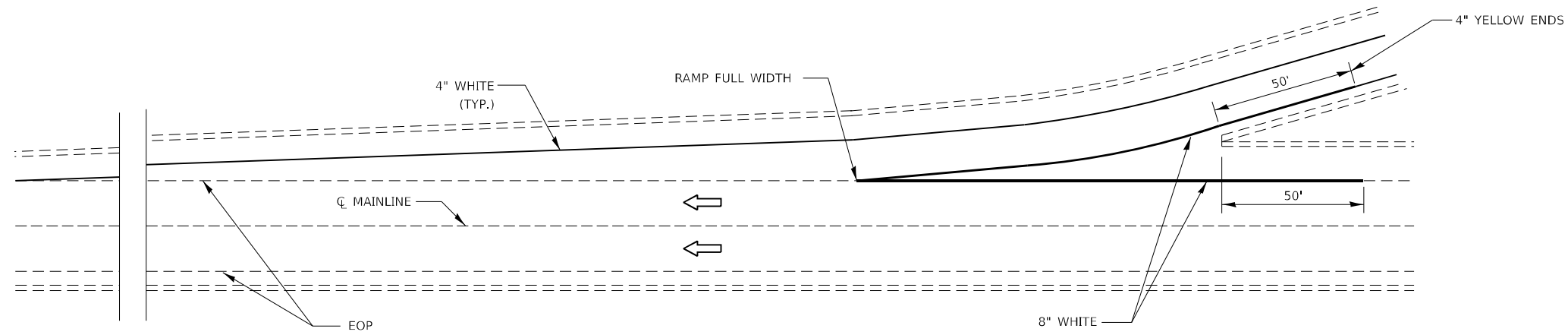
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

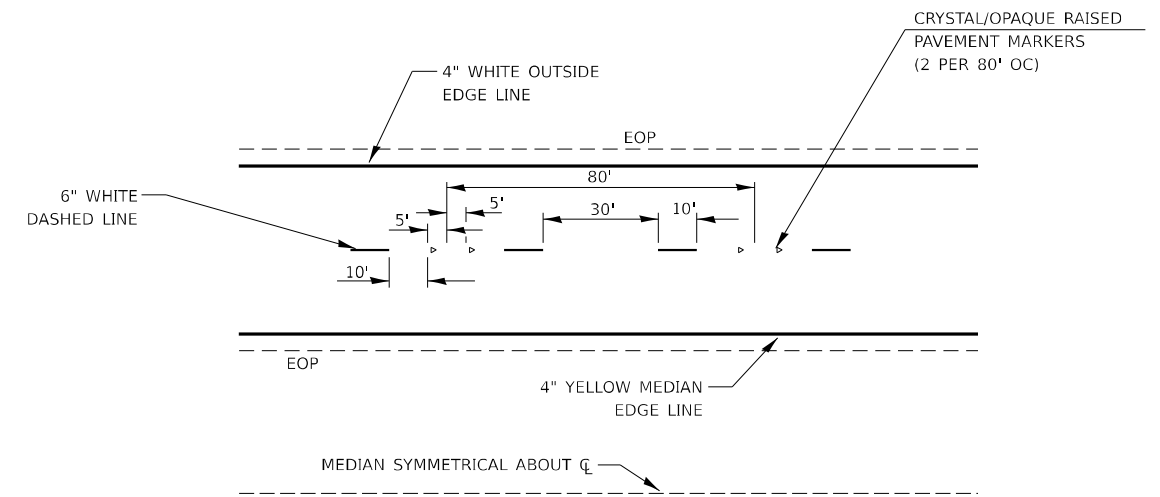
GUARDRAIL / BARRIER WALL DELINEATION DETAILS

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

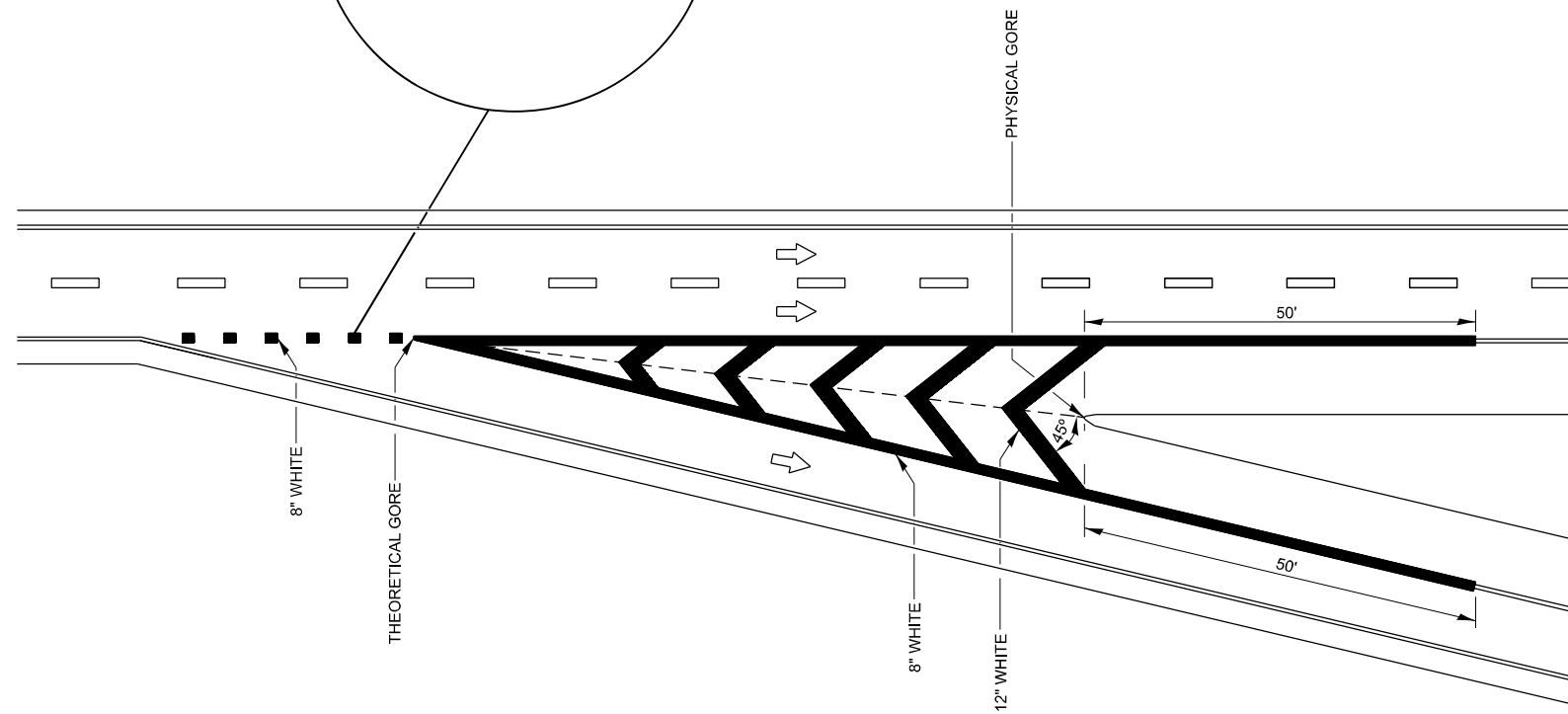
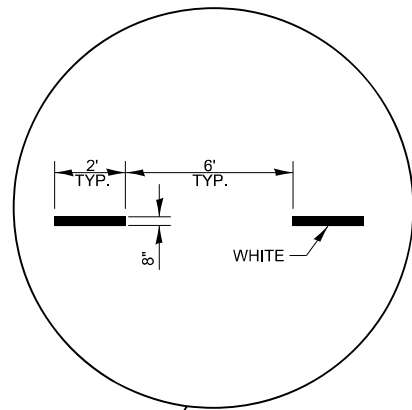
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(140BR-1)BP	KANKAKEE	14	9
CONTRACT NO. 66P84				
ILLINOIS FED. AID PROJECT				



TYPICAL PAVEMENT MARKING FOR ENTRANCE RAMP TERMINALS



TYPICAL PAVEMENT MARKINGS



TYPICAL PAVEMENT MARKING FOR EXIT RAMP TERMINALS

MODEL: Default
FILE NAME: c:\pwworking\woodshank\1021839\66P84.dgn

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
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PLOT DATE = 7/24/2024	DATE - 5/21/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKING

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(140BR-1)BP	KANKAKEE	14	10
CONTRACT NO. 66P84				
ILLINOIS FED. AID PROJECT				

T.B.M. #2-Chiseled "D" In Top Of N.W. Wingwall Of North Bound Bridge, 14' Left, Sta. 500+08, El. 630.45

Existing Structure: Two span 24" noncomposite steel wide flange beams on pile bent abutments and solid reinforced concrete pier on spread footings. Concrete curb and steel railing. 10'-2" bk. to bk. of abutments 31'-6" fc. to fc. of curbs No Skew

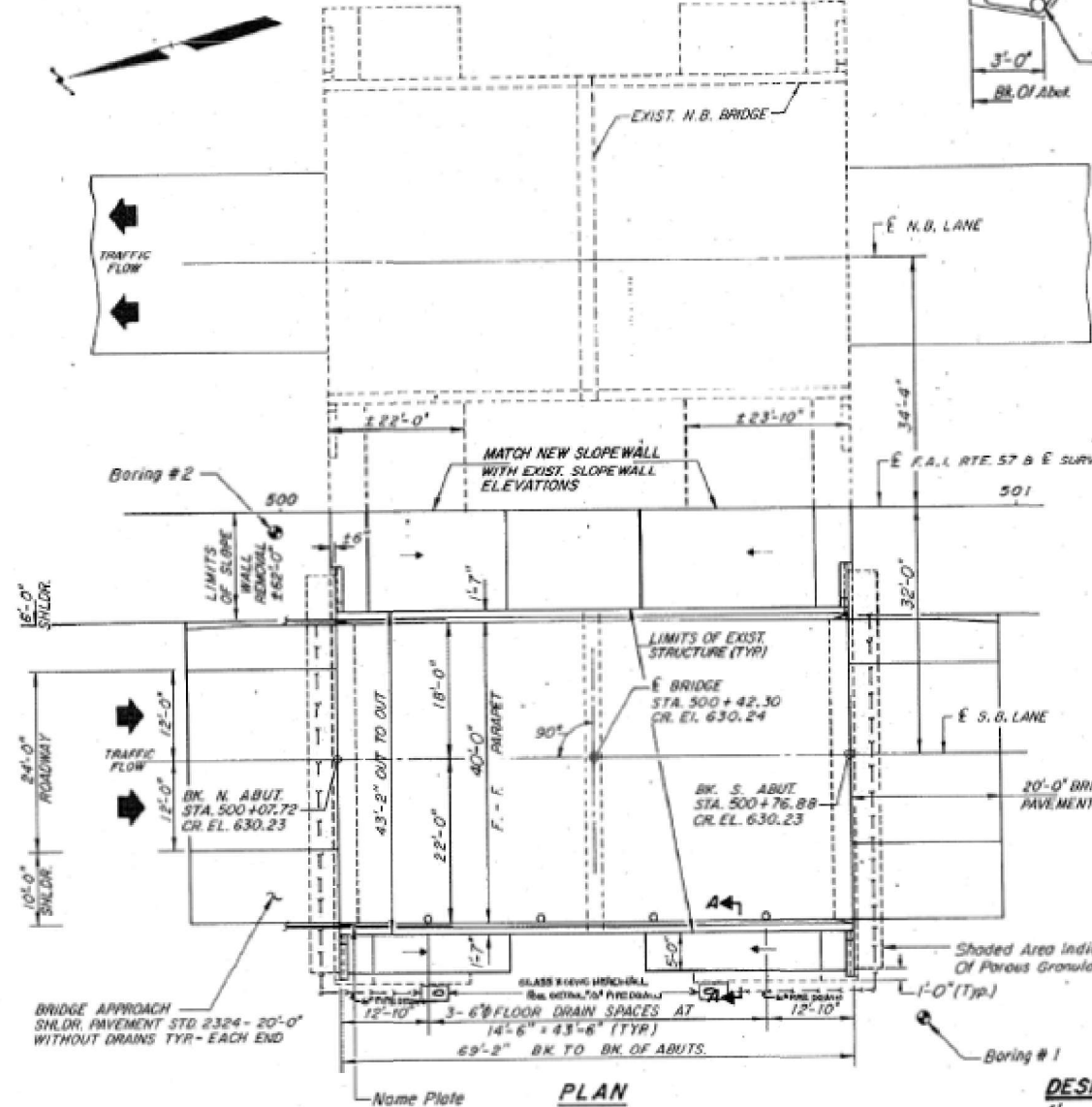
Two way traffic will be maintained over the existing northbound bridge during construction of the proposed southbound bridge.

No Salvage

TRAFFIC BARRIER TERMINAL STD 2341 TYPE 6 APR END ONLY-SEE ROWY PLANS

***STL. H PILES

***Existing Concrete Piles To Remain.



BRIDGE APPROACH SHLDR. PAVEMENT STD 2324 - 20'-0" WITHOUT DRAINS TYR - EACH END



DESIGNED *Mary H. Blodorn*
 CHECKED *S.S.*
 DRAWN *...*
 CHECKED *MHS*

Mary H. Blodorn 3/20/91
 Exp 11-31-92

APPROVED FOR STRUCTURAL ADEQUACY ONLY
Ralph C. Adams

WATERWAY INFORMATION

Drainage Area = 17.6 Sq. Mi.		Low Grade Elev. 628.81 @ Sta. 489+00	
Flood Yr.	Q C.F.S.	Opening Sq. Ft.	Head - Ft.
Design	50	1990	429
Base	100	2250	440
Overlapping			
Max. Calc.	500	2850	463

GENERAL NOTES

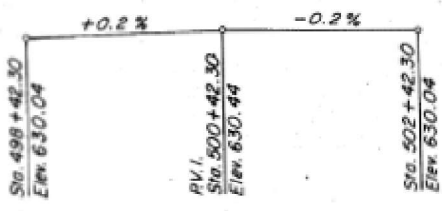
See sheet number 11 of 11 for boring data.
 Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.
 The Contractor shall drive one test pile in a permanent location at the north abutment as directed by the Engineer before ordering the remainder of piles.
 Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 Fasteners shall be high strength bolts. Bolts 7/8", open holes 5/8", unless otherwise noted.
 Calculated weight of Structural Steel = 69,120 lbs. AASHTO M223, Grade 50, 3,490 lbs. AASHTO M183
 The Zinc-Silicate and vinyl paint system shall be used for shop and field painting of Structural Steel except as noted. The color of the vinyl finish coat shall be Munsell No. 7.5G 4/8 Interstate Green.
 Field welding of construction accessories will not be permitted to the bottom flange of beams. Field welding in other areas will be permitted only when approved by the Engineer.
 The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams.
 Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. 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 materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
 Slope wall shall be reinforced with welded wire fabric, 6" x 6" - W4.0 x 4.0, weighing 59 lbs. per 100 sq. ft.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
* REMOVAL OF EXISTING STRUCTURES	EACH	1		1
* BRIDGE DECK GROOVING	SQ YD	307		307
STRUCTURE EXCAVATION	CU YD		130	130
FLOOR DRAINS	EACH	8		8
CLASS X CONCRETE SUPERSTRUCTURE	CU YD	116.9		116.9
** PROTECTIVE COAT	SQ YD	363		363
CLASS X CONCRETE	CU YD		34.2	34.2
FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
STUD SHEAR CONNECTORS	EACH	1602		1602
REINFORCEMENT BARS, EPOXY COATED	POUND	22830	4800	27630
FURNISHING STEEL PILES HP8X36	LIN FT		230	230
DRIVING STEEL PILES	LIN FT		230	230
TEST PILE STEEL HP8X36	EACH		1	1
NAME PLATES	EACH	1		1
SLOPEWALL 6 INCH	SQ. YD.		360	360
* SLOPEWALL REMOVAL	SQ. YD.		372	372
CONCRETE THICK DEFICIENCY	DOLLAR			-4,000.00
POROUS GRANULAR EMBANKMENT	CU. YD.		144	144

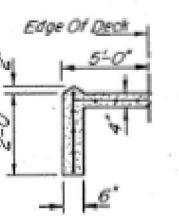
DETAIL "A"
 STA. 500+42.30
 BUILT 1992 BY
 STATE OF ILLINOIS
 F.A.P. ROUTE 57 SEC. 140-BR-1
 F.A. PROJ. NO. IR-57-6 (157)
 STR. NO. 046-0114

NAME PLATE
 See Std. 2113



PROFILE GRADE

400' V.C.



SECTION A-A

DESIGN STRESSES

f_c = 3,500 p.s.i.
 f_y = 60,000 p.s.i. (Reinf.)
 f_y = 50,000 p.s.i. (AASHTO M223, Grade 50)
 f_y = 36,000 p.s.i. (AASHTO M183)

LOADING HS 20-44 & ALT.

Allow 25# / Sq. Ft. For Future Wearing Surface
 Design Specifications 1989 AASHTO And 1990 Interim And 1983 Guide Specification For Seismic Design Of Highway Bridges With 1985 And 1988 Interims Specifications.



LOCATION PLAN

GENERAL PLAN AND ELEVATION
 SOUTHBOUND LANE I-57 OVER MINNIE CREEK
 F.A.I. RTE. 57 SECTION 140-BR-1
 STA. 500 + 42.30
 KANKAKEE COUNTY
 STRUCTURE NUMBER 046-0114

Ozyurt Engineers, Inc.
 CONSULTING ENGINEERS
 FILE NO. 89-24
 DATE

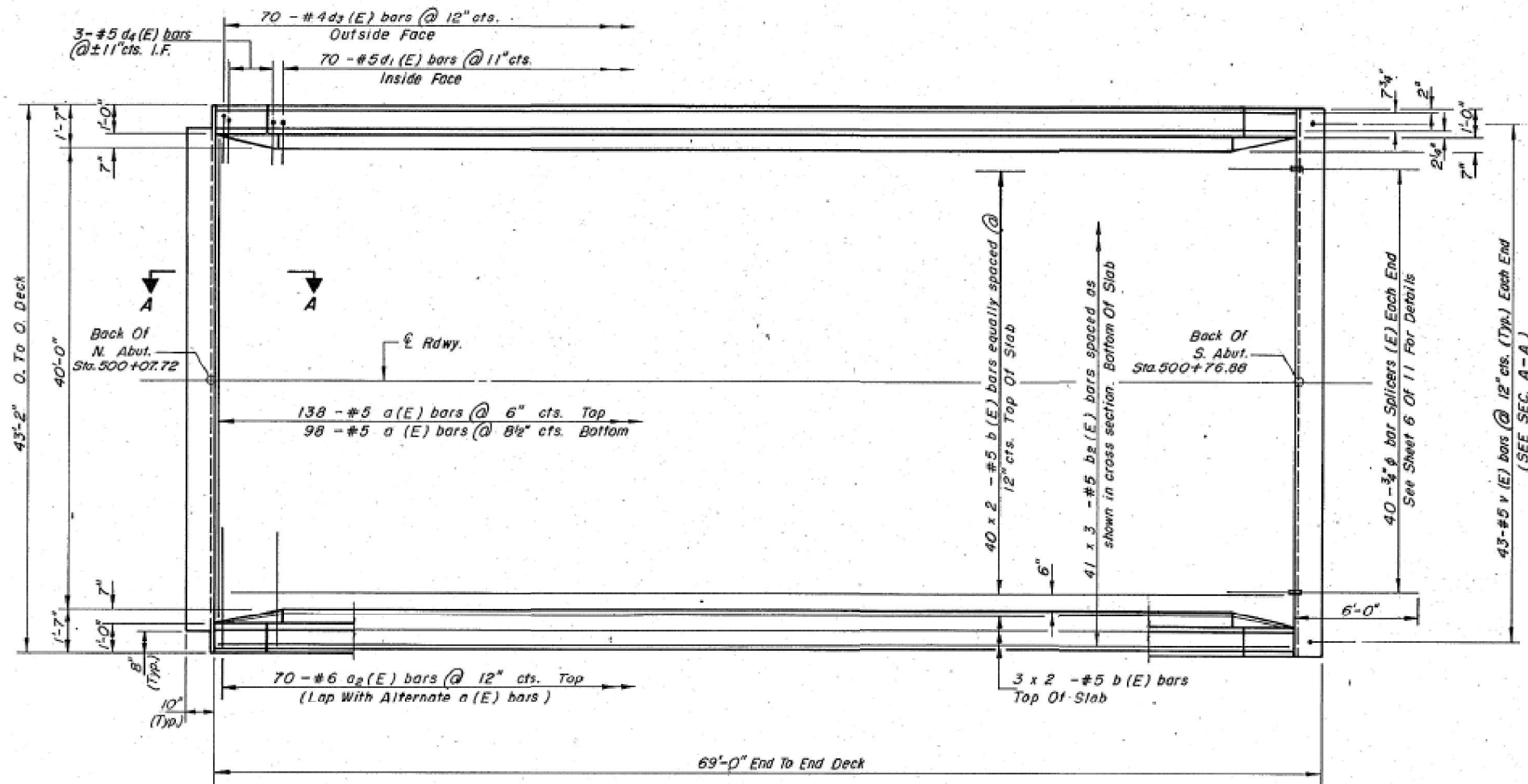
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	DRAWN - RW	REVISED -					
	CHECKED - YP	REVISED -					
PLOT DATE = 7/24/2024	DATE = 5/21/2024	REVISED -	SCALE:	SHEET 1 OF 4 SHEETS	STA. TO STA.	ILLINOIS	FED. AID PROJECT

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

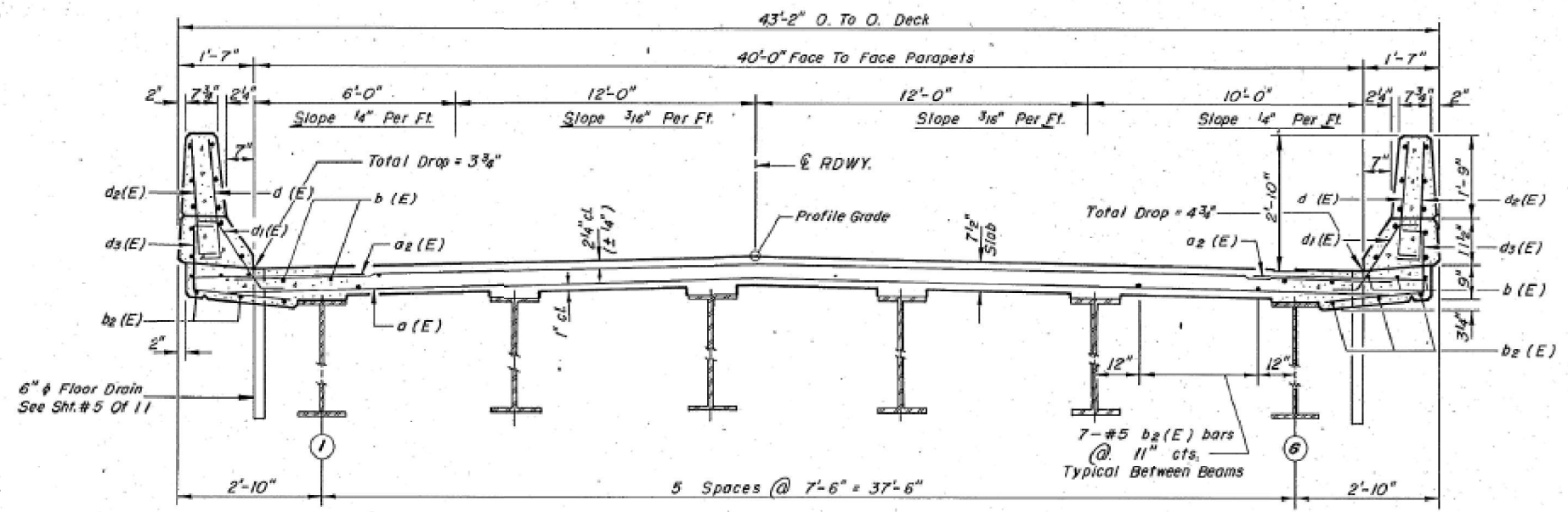
EXISTING STRUCTURE PLANS FOR
 STRUCTURE NO. 046-0114 - FOR INFORMATION ONLY

MODEL: Default
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4 11 SHEETS
57	140-BR-1	KANKAKEE	33	17	
STA.	TO STA.				
FOR ROAD DIST. NO. 3	FLORIDA	FOR APPROVAL			



HALF PLAN



CROSS SECTION
(Looking South)

Note: See Sht. # 5 Of 11 For Superstructure Details And Bill Of Material.
Reinforcement Bars Designated (E) Shall Be Epoxy Coated.
Bars Indicated Thus 20 x 3 - # 5 etc. Indicates 20 Lines Of Bars With 3 Lengths Per Line.
See Sht. # 1 Of 11 For Floor Drain Spacing Min. Lap # 5 bars Is 1'-8".

SUPERSTRUCTURE
SOUTHBOUND LANE I-57 OVER MINNIE CREEK
F.A.I. RTE. 57 SECTION 140-BR-1
STA. 500 + 42.30
KANKAKEE COUNTY
STRUCTURE NUMBER 046-0114

Ozyurt Engineers, Inc.
CONSULTING ENGINEERS
FILE NO. 89-24 A

DESIGNED - *Mary H. Woodshank*
CHECKED - *A. J. [Signature]*
DRAWN - *[Signature]*
CHECKED - *[Signature]*

12-1-83

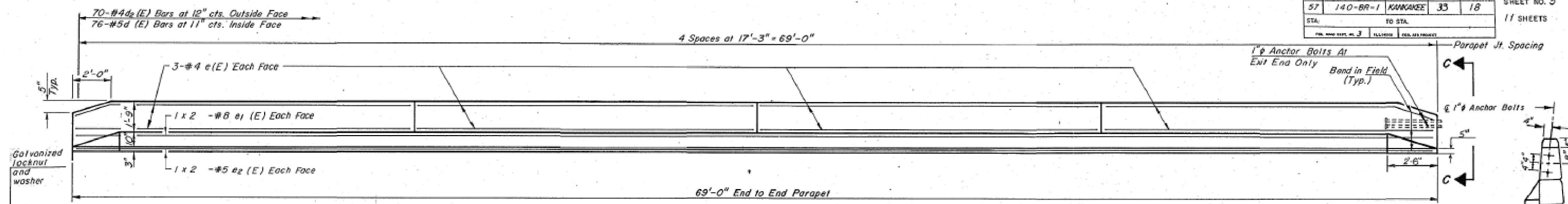
USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/21/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS FOR
STRUCTURE NO. 046-0114 - FOR INFORMATION ONLY

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(140BR-1)BP	KANKAKEE	14	12
			CONTRACT NO. 66P84	
SCALE:		SHEET 2 OF 4 SHEETS	STA.	TO STA.

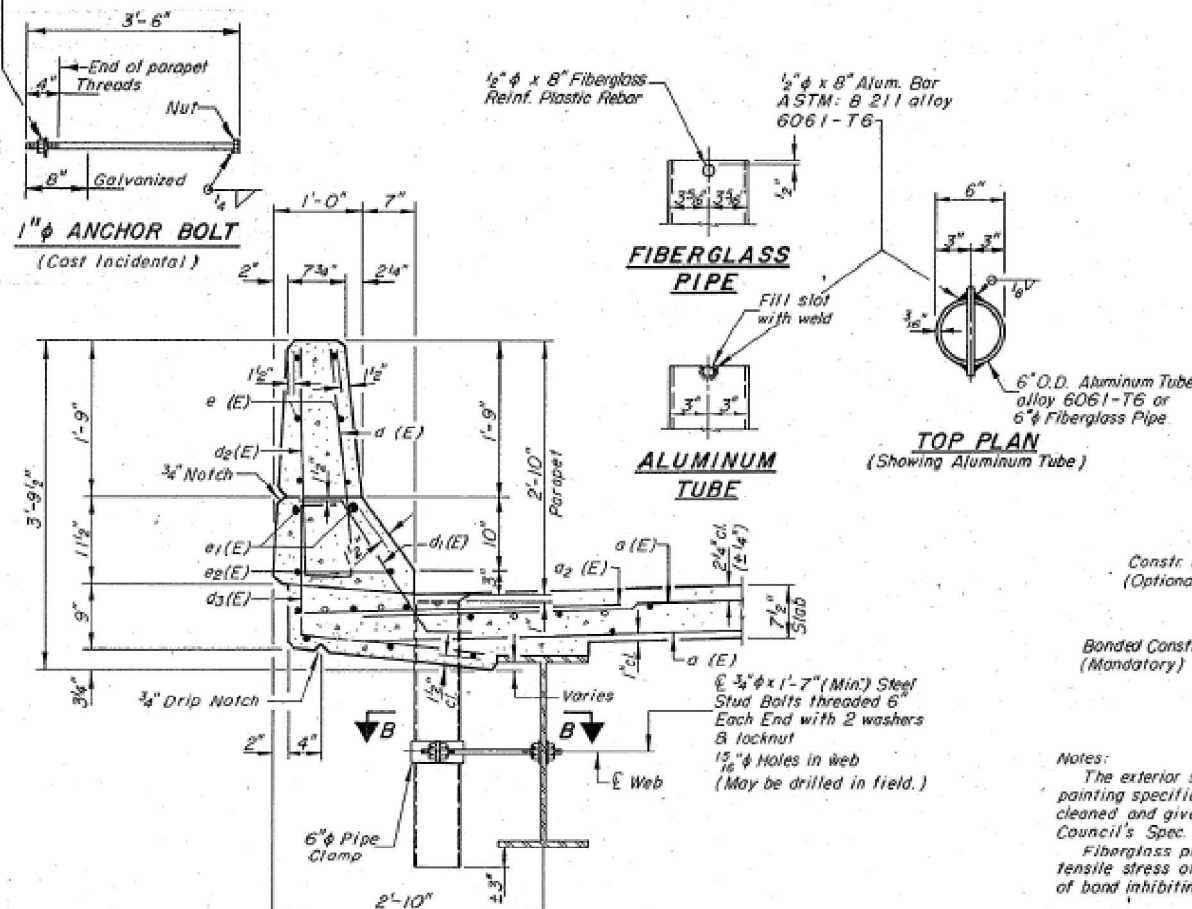
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VIEW C-C

INSIDE ELEVATION OF PARAPET

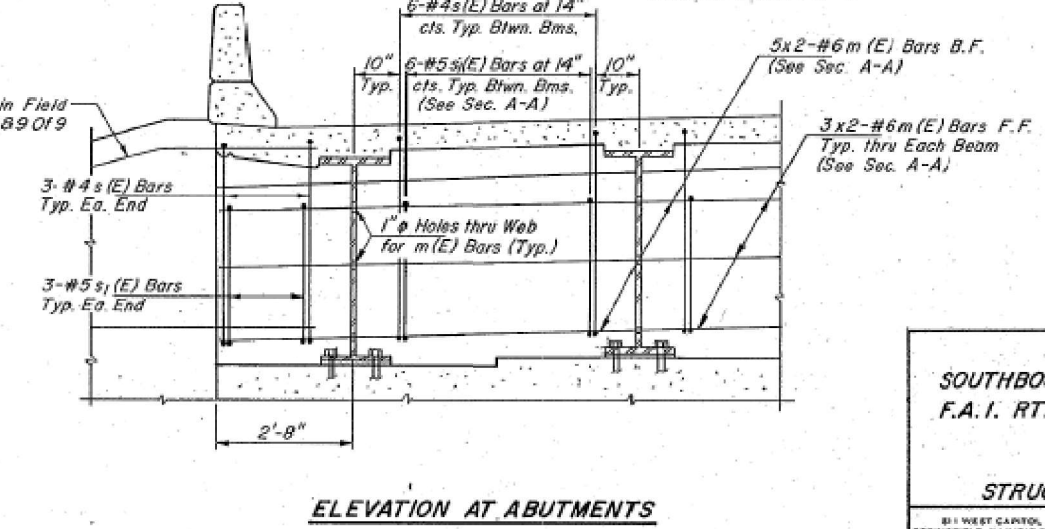
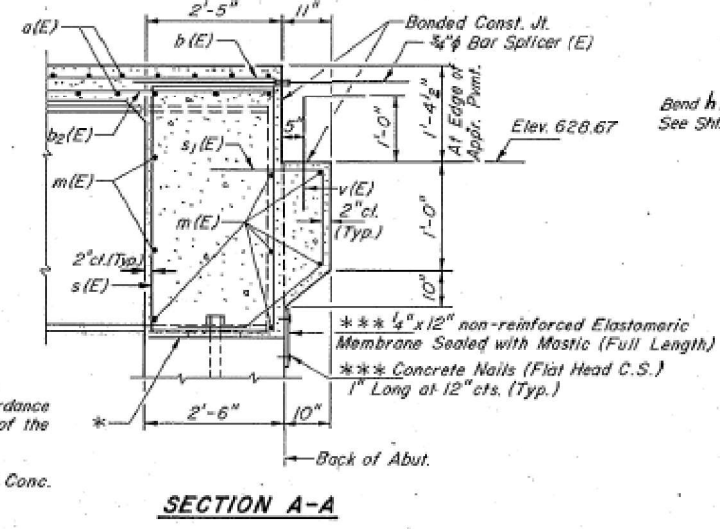
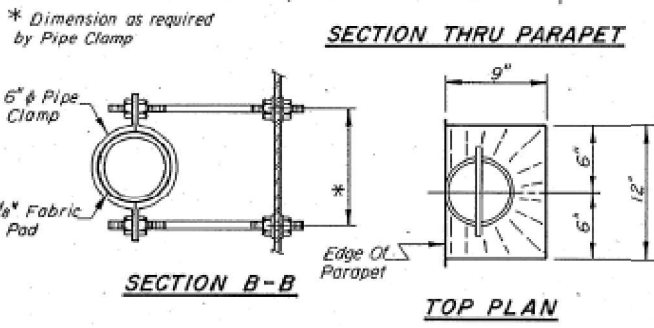
Min. Lap #5 Bars = 2'-2"
Min. Lap #8 Bars = 4'-6"
(East Parapet Shown)



SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a(E)	236	#5	4'-2"		
a ₂ (E)	140	#6	4'-0"		
b(E)	92	#5	35'-3"		
b ₂ (E)	123	#5	24'-1"		
d(E)	152	#5	3'-0"	L	
d ₁ (E)	140	#5	2'-7"	L	
d ₂ (E)	140	#4	5'-0"	L	
d ₃ (E)	12	#5	2'-10"	L	
e(E)	48	#4	17'-0"		
e ₁ (E)	8	#8	36'-8"		
e ₂ (E)	8	#5	35'-6"		
m(E)	32	#6	22'-7"		
s(E)	72	#4	9'-7"	□	
s ₁ (E)	72	#5	5'-1"	⌋	
v(E)	86	#5	3'-3"	┌	
Reinforcement Bars, Epoxy Coated				Pound	22830
Class X Concrete Superstructure				Cu. Yd.	116.9

Reinforcement bars designated (E) shall be epoxy coated.

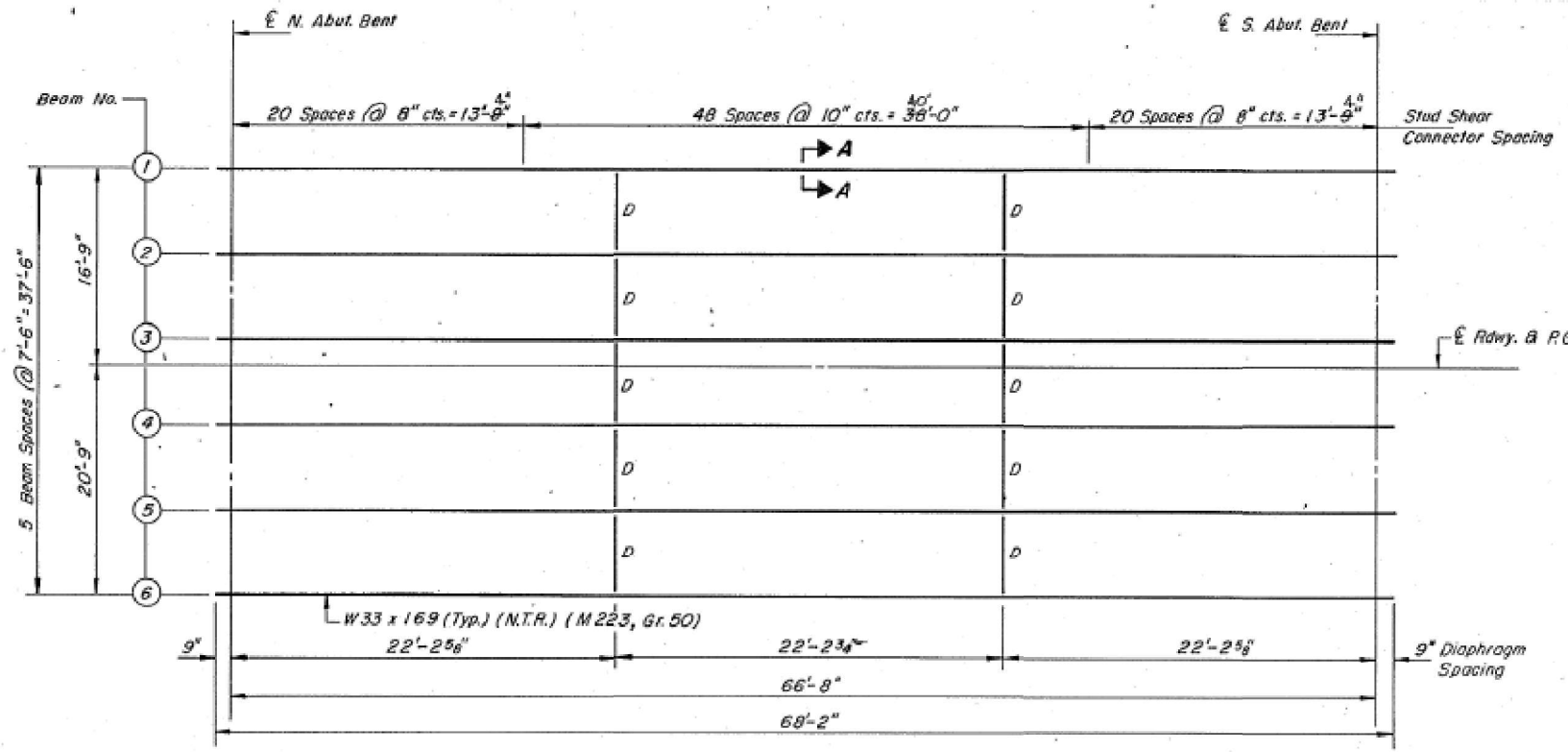


DESIGNED: *Mary B. Boyday*
CHECKED: *A. [Signature]*
DRAWN: *C. Connor*
CHECKED: *MRB*

* Bonded Const. Jt. in Accordance with Article 504.13 (a)(2) of the Standard Specifications.
*** Cost Incidental to Class X Conc.

SUPER DETAILS
SOUTHBOUND LANE I-57 OVER MINNIE CREEK
F.A.I. RTE. 57 SECTION 140-BR-1
STA. 500 + 42.30
KANKAKEE COUNTY
STRUCTURE NUMBER 046-0114

811 WEST CAPITOL, SPRINGFIELD, ILLINOIS 62704 (618) 526-2888
Ozyurt Engineers, Inc. FILE NO. 89-24 A
CONSULTING ENGINEERS DATE



FRAMING PLAN
N.T.R. DENOTES NOTCH TOUGHNESS REQUIREMENTS

INT. BEAM MOMENT TABLE

	0.5 SPAN
I_s (in. ⁴)	9290
I_c (in. ⁴)	22369
S_s (in. ³)	549
S_c (in. ³)	762
Z (in. ³)	
Q (K/I)	316
M_D (K)	509
S_D (K/I)	325
M_{sD} (K)	180
M_{imp} (K)	632
M_{imp} (K)	164
$S_3(M_D + I)$ (K)	1327
M_a (K)	2621
I_s @ non-comp. (k.s.i.)	11.1
I_s @ comp. (k.s.i.)	3.1
$I_s S_3 / (I + I)$ (k.s.i.)	20.9
I_s (Overload) (k.s.i.)	35.1
I_s (Total) (k.s.i.)	45.6
VR (K)	53.2

M_u = Full Plastic Moment Capacity for Compact, Braced section.
 M_a (Applied Moment) = $1.3(MD_L + MD_L + 5_3(ML_L + I))$.
 I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total and Overload).
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s (Total and Overload).
 VR is the maximum L_1 + impact shear range in span.
 Z is the plastic section modulus used to determine the Fully Plastic Moments in the non-composite areas.
 The Fully Plastic Moment capacity (M_u) is computed according to AASHTO 10.4B.1.
 f_s (Total) is the sum of the stresses due to $1.3MD_L + M_{sD} + 5_3(ML_L + I)$.
 f_s (Overload) is the sum of the stresses due to $MD_L + M_{sD} + 5_3(ML_L + I)$.

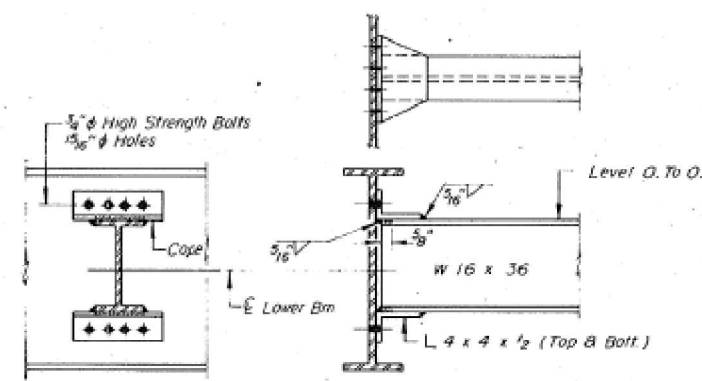
INT. BEAM REACTION TABLE

	Abut's
R_{Q+S} (K)	41.4
R_E (K)	42.2
Imp. (K)	11.0
R_{Total} (K)	94.6

***TOP OF BEAM ELEVS.**

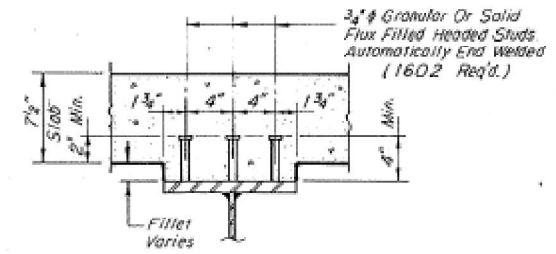
Beam	E. Abut. Bents
1	629.28
2	629.42
3	629.54
4	629.47
5	629.35
6	629.20

***FOR FABRICATION ONLY**

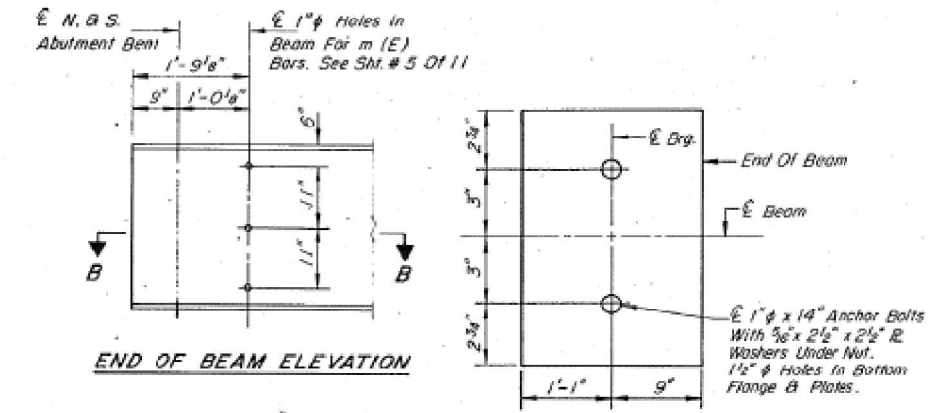


DIAPHRAGM D
10 Required

Note: Two hardened washers shall be required over all oversize holes for diaphragms.

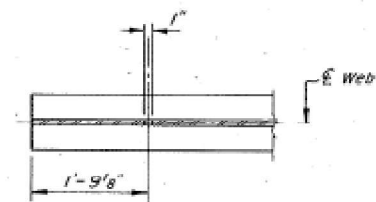


SECTION A-A



END OF BEAM ELEVATION

PLAN
1/8" LEAD PLATE DETAILS



SECTION B-B

DESIGNED	Mary H. Olyden
CHECKED	A. Sec
DRAWN	MM
CHECKED	MPB

USER NAME = ronald.woodshank	DESIGNED - RW	REVISED -
	DRAWN - RW	REVISED -
	CHECKED - YP	REVISED -
PLOT DATE = 7/24/2024	DATE - 5/21/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS FOR
STRUCTURE NO. 046-0114 - FOR INFORMATION ONLY

STRUCTURAL STEEL
 SOUTHBOUND LANE I-57 OVER MINNIE CREEK
 F.A.I. RTE. 57 SECTION 140-BR-1
 STA. 500 + 42.30
 KANKAKEE COUNTY
 STRUCTURE NUMBER 046-0114

Ozyurt Engineers, Inc.
CONSULTING ENGINEERS

FILE NO. 89-24 A
DATE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(140BR-1)BP	KANKAKEE	14	14
			CONTRACT NO. 66P84	
ILLINOIS FED. AID PROJECT				

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