

01-20-2017 LETTING ITEM 124

STATE OF ILLINOIS

* 14 + 1 = 15 TOTAL SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(161-1HB-3)BP	ROCK ISLAND	14	1
		ILLINOIS CONTRACT NO.	64L69	

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAI ROUTE 88 (I-88)

SECTION: (161-1HB-3)BP

TYPE OF IMPROVEMENT: BRIDGE PAINTING

SN 081-0124 OVER I-88

ROCK ISLAND COUNTY

C-92-107-16

R2-E.

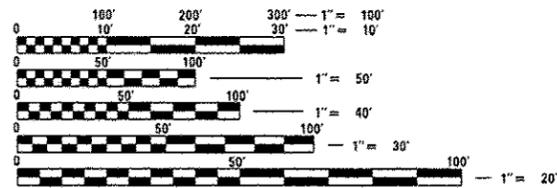
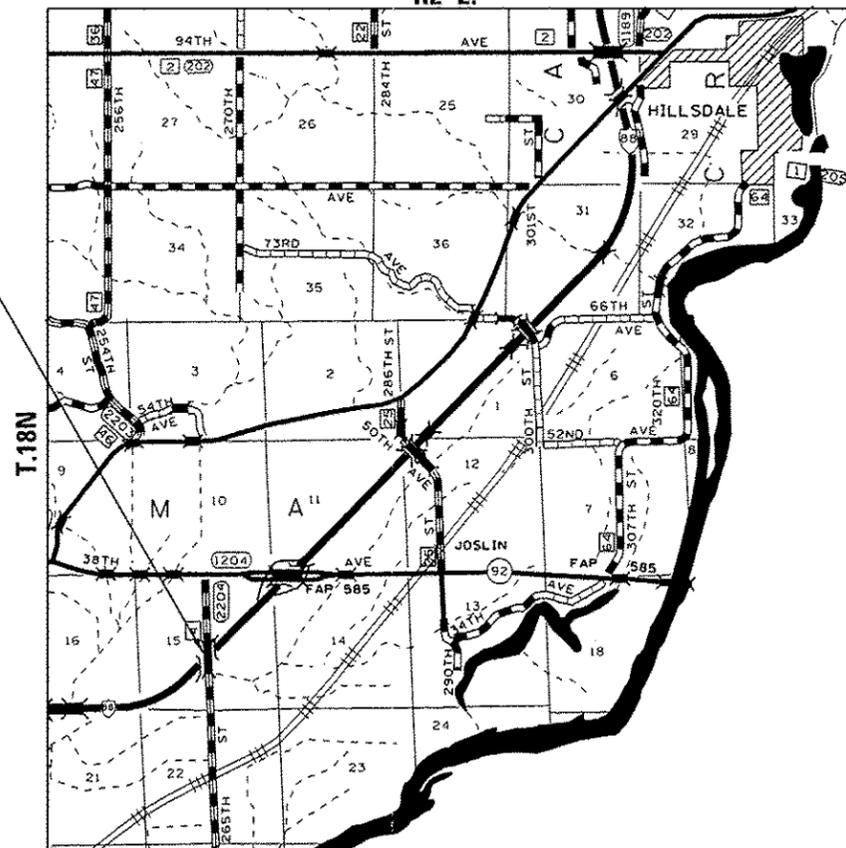
D-92-090-16



FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STATE STANDARDS, SEE SHEET NO. 2

ZUMA TOWNSHIP, SECTION: 15

SN 081-0124



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: DAVID DOSS (815) 284-5416
PROJECT MANAGER: MAHMOUD ETEMADI (815) 284-5393

CONTRACT NO. 64L69

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct 13 2016
K. Mouch
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Dec 9 2016
Marcus M. Addis, PE
ENGINEER OF DESIGN AND ENVIRONMENT

Dec 9 2016
Drew Connor, PE
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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11-14A	EXISTING PLANS FOR SN 081-0124

STATE STANDARDS

000001 - 06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL EQUIVALENTS OF AN INCH AND FOOT
701101 - 05	OFF ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701006 - 05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5m) TO 24" (600 mm) FROM PAVEMENT EDGE
701311 - 03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701400 - 09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401 - 10	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402 - 12	LANE CLOSURE, FREEWAY/EXPRESSWAY WITH BARRIER
701426 - 09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS \geq 45 MPH
701901 - 06	TRAFFIC CONTROL DEVICES
704001 - 08	TEMPORARY CONCRETE BARRIER
720011 - 01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001 - 01	TELESCOPING STEEL SIGN SUPPORT
729001 - 01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

FILE NAME *	USER NAME = dosadd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS & STATE STANDARDS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\BR\Draws\Rock Island\64L69 Cleaning and Painting SN 081-0124\CADD\64L69-ah\dgn	PLOT SCALE = 100.0000' / 1" / in	DRAWN - _____	REVISED - _____			88	(161-1HB-3)BP	ROCK ISLAND	14	2	
Default	PLOT DATE = Aug-30-2016 02:08:57 PM	CHECKED - _____	REVISED - _____			SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		CONTRACT NO. 64L69			
		DATE - _____	REVISED - _____			ILLINOIS FED. AID PROJECT					

GENERAL NOTES

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123. The following listed utilities located within the project limits or immediately adjacent to the project construction limits are members of JULIE:

Electric:
MidAmerican Energy Company
Attn: Jason Terry (309)-793-3649
2811 5th Avenue
Rock Island, IL 61201

Gas:
MidAmerican Energy Company
Attn: Rod Hawk (309)-793-3760
2811 5th Avenue
Rock Island, IL 61201

Telephone:
Frontier Legacy
Attn: David Day (815)-772-2078
124 East Lincolnway
Morrison, IL 61270

IDOT is not a member of JULIE. If you are near any overhead lighting, intersection lighting or traffic signals, contact the IDOT Traffic Office at 815/284-5469 at least 48 hours prior to work.

A MINIMUM OF 2 AIR MONITORS WILL BE REQUIRED TO MONITOR ABRASIVE BLASTING OPERATIONS. SEE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES".

THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 2A SHALL BE USED. THIS WORK WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR CLEANING AND PAINTING STEEL BRIDGE NO. 1.

FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SEEDING OR PLACEMENT OF SOD AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF CLEANING AND PAINTING STEEL BRIDGE NO. 1.

MULCH METHOD II SHALL BE APPLIED OVER ALL SEEDED AREAS. THIS SHALL BE INCLUDED IN THE COST OF THE CLEANING AND PAINTING STEEL BRIDGE NO. 1.

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

TEMPORARY IMPACT ATTENUATORS WILL BE MEASURED AS EACH FOR EACH ATTENUATOR SUPPLIED ON THE JOB AS SPECIFIED IN THE PLANS, AND SHALL INCLUDE THE COST OF RENTING/OWNING THE ATTENUATOR FOR THE TIME REQUIRED ON THE JOB PLUS HAULING TO AND FROM THE PROJECT SITE, AS WELL AS ONE PLACEMENT AND REMOVAL FROM THE ROADWAY. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, TEMPORARY OF THE TYPE SPECIFIED.

RELOCATE TEMPORARY IMPACT ATTENUATOR WILL BE PAID FOR AS EACH AND WILL BE PAID FOR EACH TIME THE ATTENUATOR IS REQUIRED BY STAGING TO BE PICKED UP AND MOVED TO A DIFFERENT LOCATION ON THE PROJECT, WHETHER IT IS TO ANOTHER LOCATION ON THE ROADWAY OR TO A STORAGE/STAGING LOCATION FOR THE PROJECT. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.

THIS WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 704 OF THE STANDARD SPECIFICATIONS. TEMPORARY CONCRETE BARRIER WILL BE MEASURED IN FEET ALONG THE CENTERLINE OF THE BARRIER AND SHALL INCLUDE THE COST OF RENTING/OWNING THE BARRIER FOR THE TIME REQUIRED ON THE JOB PLUS HAULING TO AND FROM THE PROJECT SITE, AS WELL AS ONE PLACEMENT AND REMOVAL FROM THE ROADWAY IN ACCORDANCE WITH SECTION 704 OF THE STANDARD AND SPECIFICATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR TEMPORARY CONCRETE BARRIER.

RELOCATE TEMPORARY CONCRETE BARRIER WILL BE PAID FOR IN FEET ALONG THE CENTERLINE OF THE BARRIER, AND WILL BE PAID FOR EACH TIME THE BARRIER IS REQUIRED BY STAGING TO BE PICKED UP AND MOVED TO A DIFFERENT LOCATION ON THE PROJECT, WHETHER IT IS TO ANOTHER LOCATION ON THE ROADWAY OR TO A STORAGE/STAGING LOCATION FOR THE PROJECT. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.

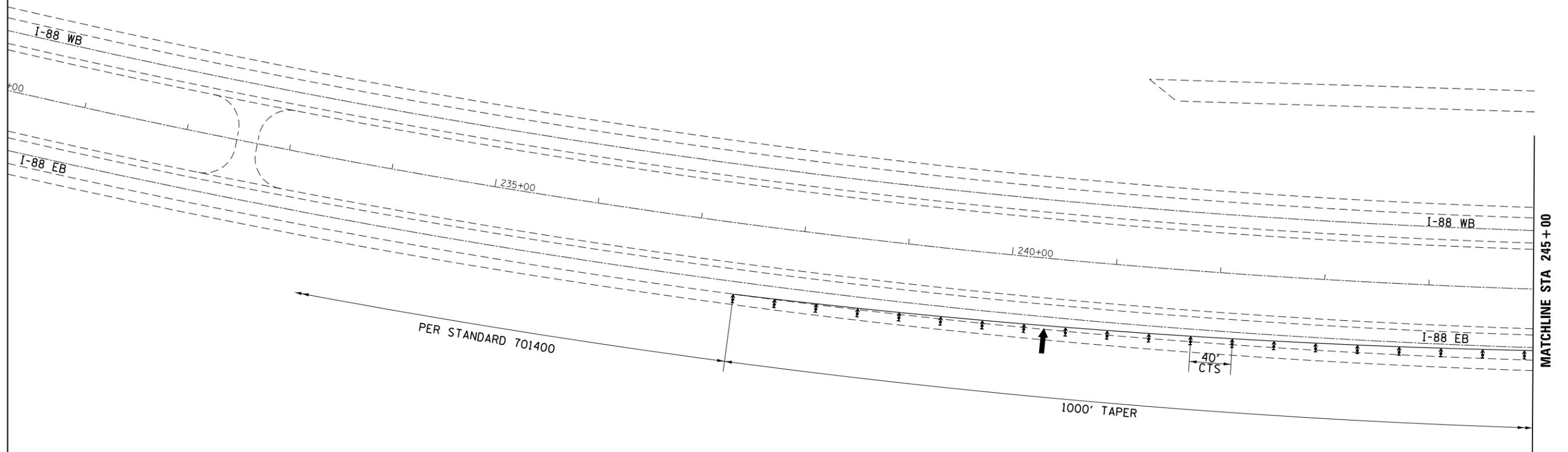
THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.

THE SSPC QP1 & QP2 CONTRACT CERTIFICATIONS WILL BE REQUIRED FOR THIS CONTRACT.

HAZARDS BEHIND TEMPORARY CONCRETE BARRIER WALL:
 NO MATERIALS, EQUIPMENT, VEHICLES OR OTHER HAZARDS SHALL BE WITHIN 3'-6" OF THE TEMPORARY CONCRETE BARRIER WALL, MEASURED FROM THE CLOSEST POINT OF THE BARRIER WALL PERPENDICULAR TO THE HAZARD. EQUIPMENT THAT IS ACTIVELY WORKING WITHIN 3'-6" OF THE BARRIER WALL MAY BE ALLOWED FOR A SHORT DURATION, IF APPROVED BY THE ENGINEER, REQUIRED FOR THE WORK ACTIVITY, AND THERE IS NOT ANOTHER METHOD TO COMPLETE THE WORK.

FILE NAME *	USER NAME * dmsdd	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\BR\Draws\Rock Island\64L69 Cleaning and Painting SN 081-0124\CA00\64L69-ah1.dgn	PLOT SCALE * 100.0000' / 1" =	DRAWN - _____	REVISED - _____			88	(161-1HB-3)BP	ROCK ISLAND	14	3	
Default	PLOT DATE * Aug-30-2016 02:01:02 PM	CHECKED - _____	REVISED - _____			SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		[ILLINOIS] FED. AID PROJECT CONTRACT NO. 64L69			
		DATE - _____	REVISED - _____								

TRAFFIC CONTROL PLAN FOR SN 081-0124



SYMBOLS

- Arrow board
- Work area
- Sign
- Direction indicator barricade with steady burn monodirectional light
- Type II barricade or drum with steady burn monodirectional light
- Temporary concrete barrier
- Monodirectional barrier wall/guardrail marker
- Impact attenuator
- Drums with steady burning monodirectional light

NOTES

- ① Refer to State Standards 701400, 701401, 701402 and 704001.
- ② ReflectORIZED temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.

FILE NAME =	USER NAME = dossdd	DESIGNED - _____	REVISED - 8-18-2014 DD
Q:\BR\Draws\Rock Island\64L69 Cleaning and Painting SN 081-0124\CADD\64L69-sh.t.dgn		DRAWN - _____	REVISED - _____
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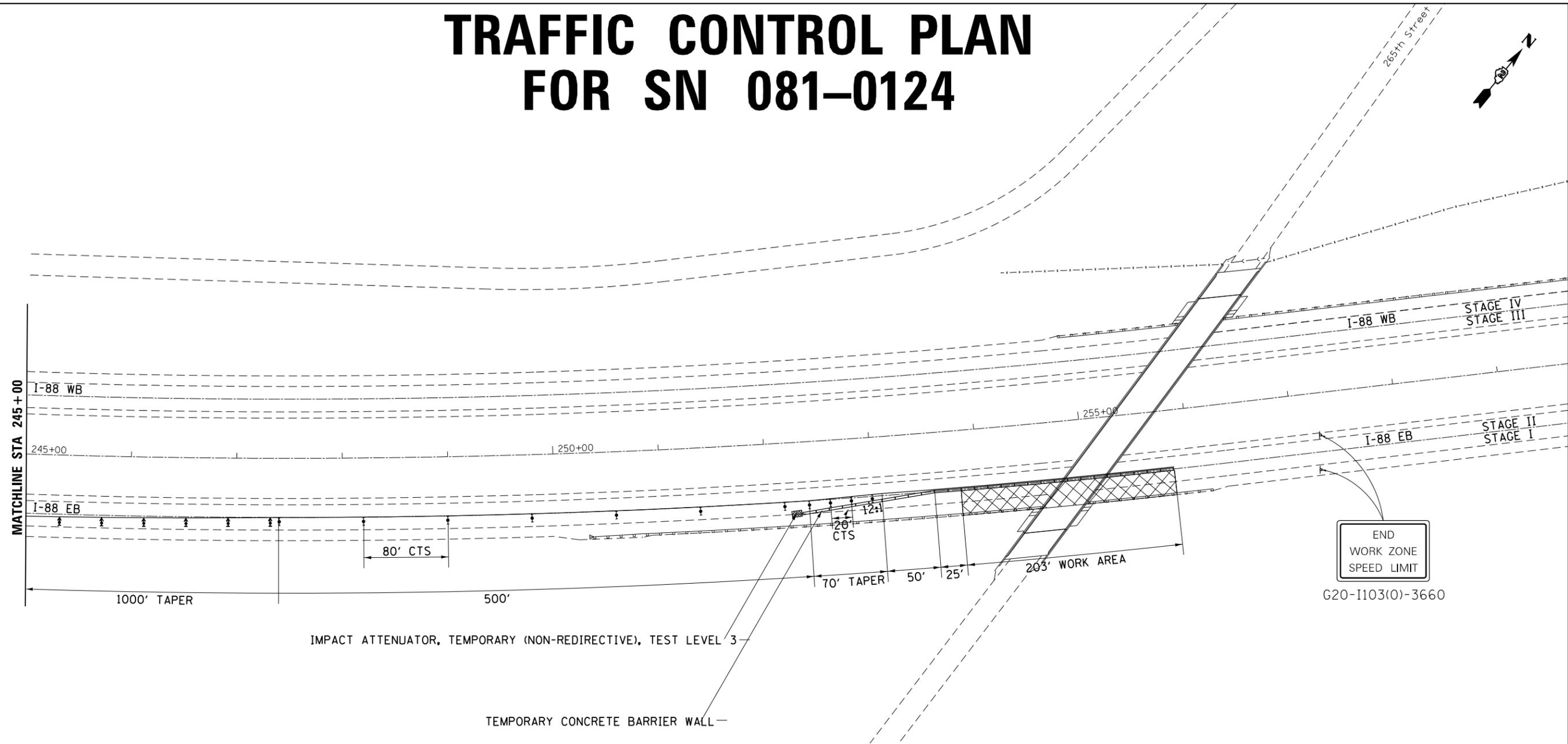
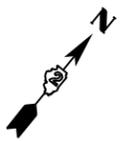
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN FOR SN 081-0124
STAGES I, II, III, IV**

SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(161-1HB-3)BP	ROCK ISLAND	14	5
CONTRACT NO. 64L69				
ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL PLAN FOR SN 081-0124



END
WORK ZONE
SPEED LIMIT

G20-I103(0)-3660

SYMBOLS

- ↑ Arrow board
- ▨ Work area
- ♣ Sign
- ↕ Direction indicator barricade with steady burn monodirectional light
- ⦿ Type II barricade or drum with steady burn monodirectional light
- Temporary concrete barrier
- ◁ Monodirectional barrier wall/guardrail marker
- ▣ Impact attenuator
- Drums with steady burning monodirectional light

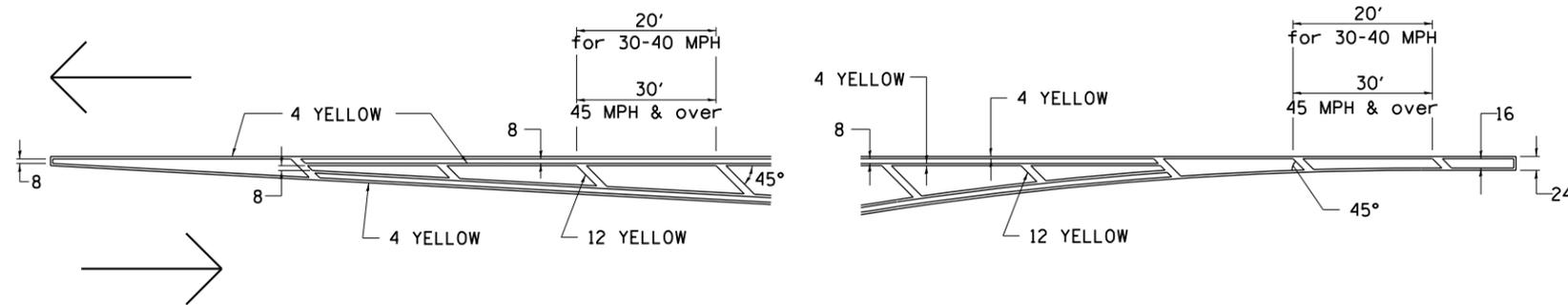
NOTES

- ① Refer to State Standards 701400, 701401, 701402 and 704001.
- ② ReflectORIZED temporary pavement marking shall be placed throughout the taper and along-side the work area. The edge line shall be white for right lane closure and yellow for left lane closures.

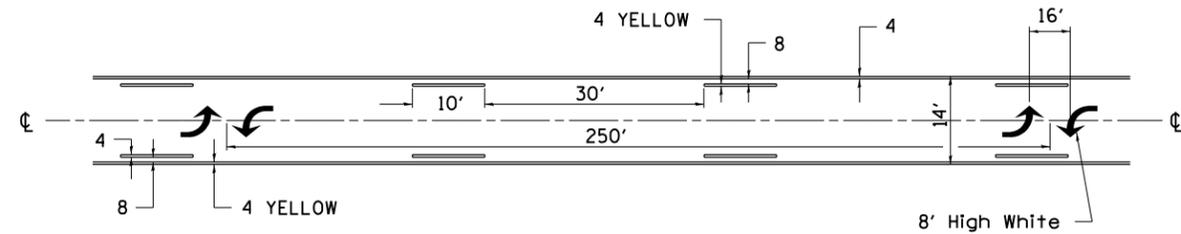
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Q:\BR\Draws\Rock Island\64L69 Cleaning and Painting SN 081-0124\CADD\64L69-sht.dgn		DRAWN - _____	REVISED - _____		88	(161-1HB-3)BP	ROCK ISLAND	14	6			
Default	PLOT SCALE = 100.0000' / in.	CHECKED - _____	REVISED - _____		STAGES I, II, III, IV			CONTRACT NO. 64L69				
	PLOT DATE = Aug-30-2016 02:31:20 PM	DATE - _____	REVISED - _____		SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____			ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

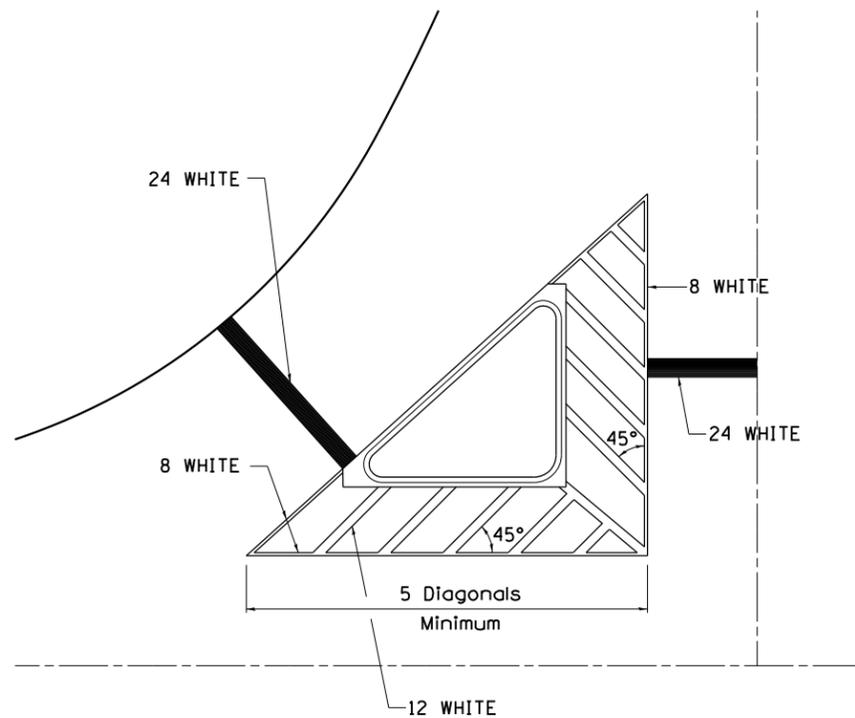


MEDIAN PAVEMENT MARKING



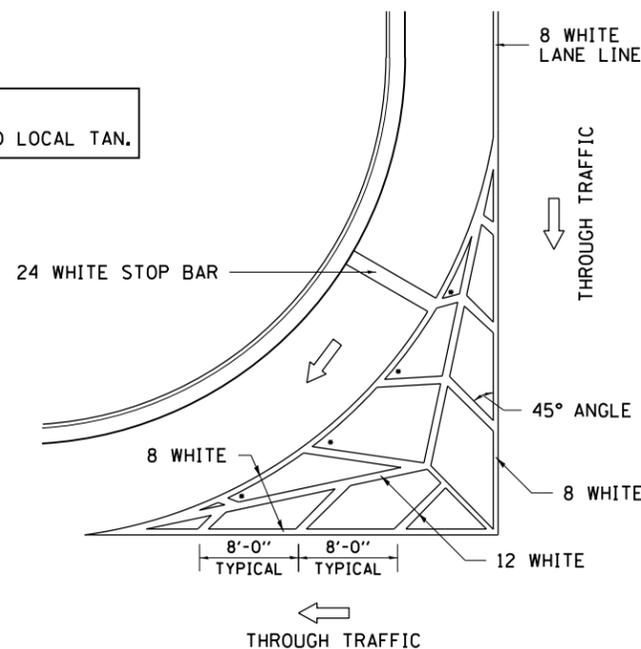
•• ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH



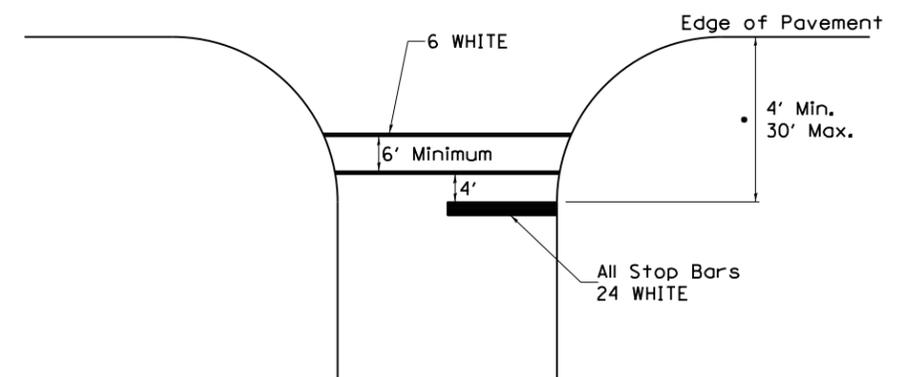
TYPICAL MARKING FOR PAINTED ISLANDS

NOTE:
* 45° TO LOCAL TAN.



STANDARD CROSSWALK MARKING

See Schedules for Locations

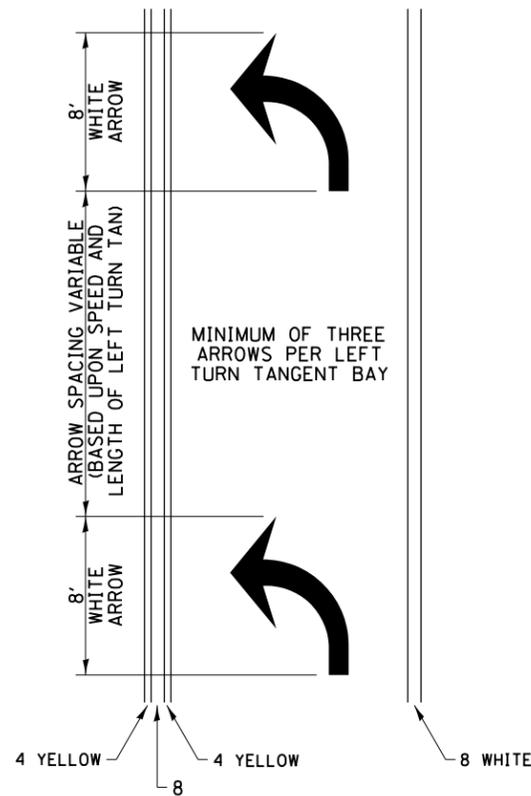


• Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = dossed	DESIGNED -	REVISED - 6-27-14	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Aug-30-2016 02:31:27 PM	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								

TYPICAL PAVEMENT MARKINGS

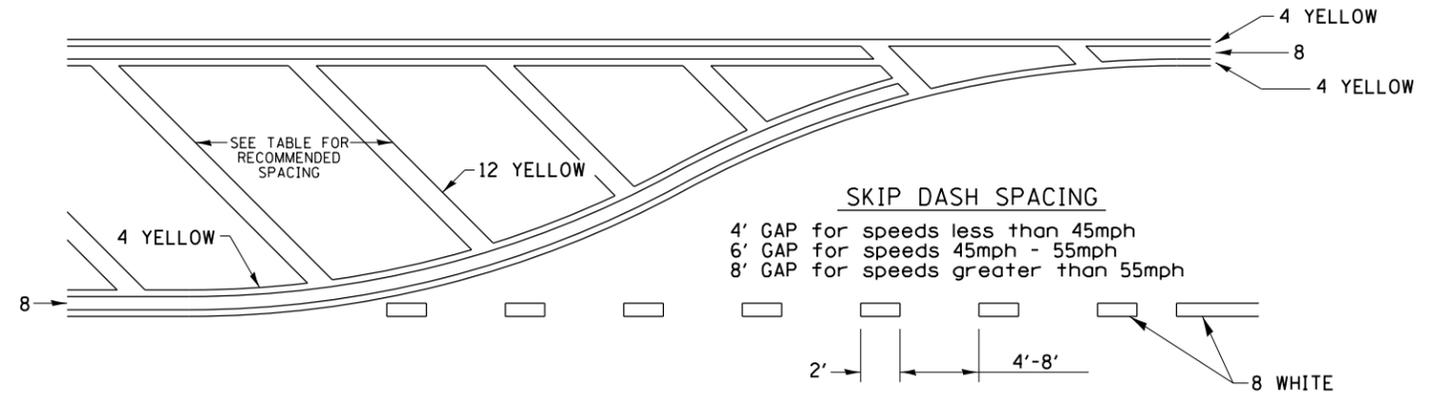
ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

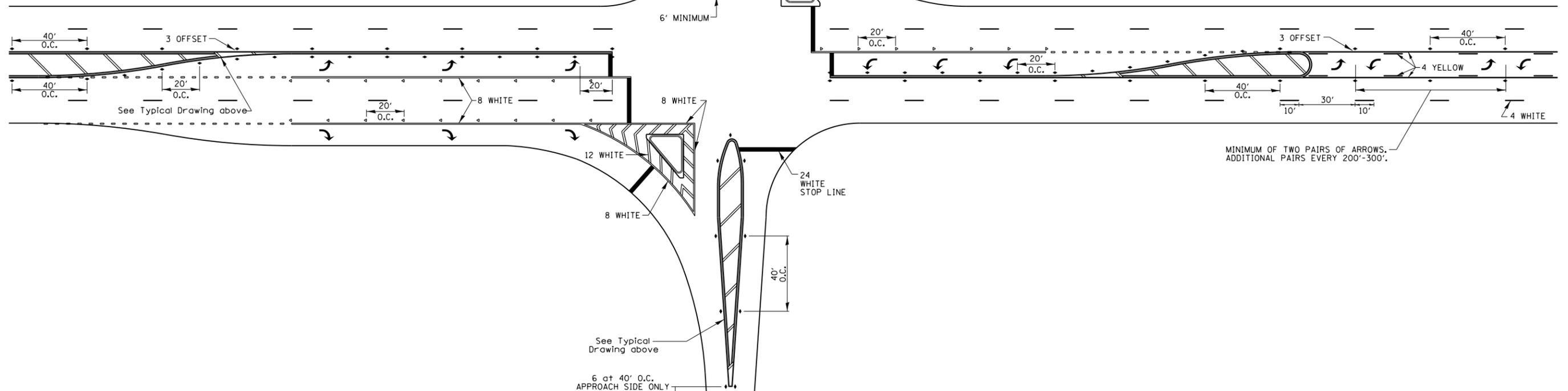
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 30MPH	50'	15'	10'
30-40MPH	75'	20'	15'
45MPH & over	75'	30'	20'

NOTE: if the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



FILE NAME =	USER NAME = dosddd	DESIGNED -	REVISED - 6-27-14
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PLOT DATE = Aug-30-2016 02:31:32 PM		DATE -	REVISED -

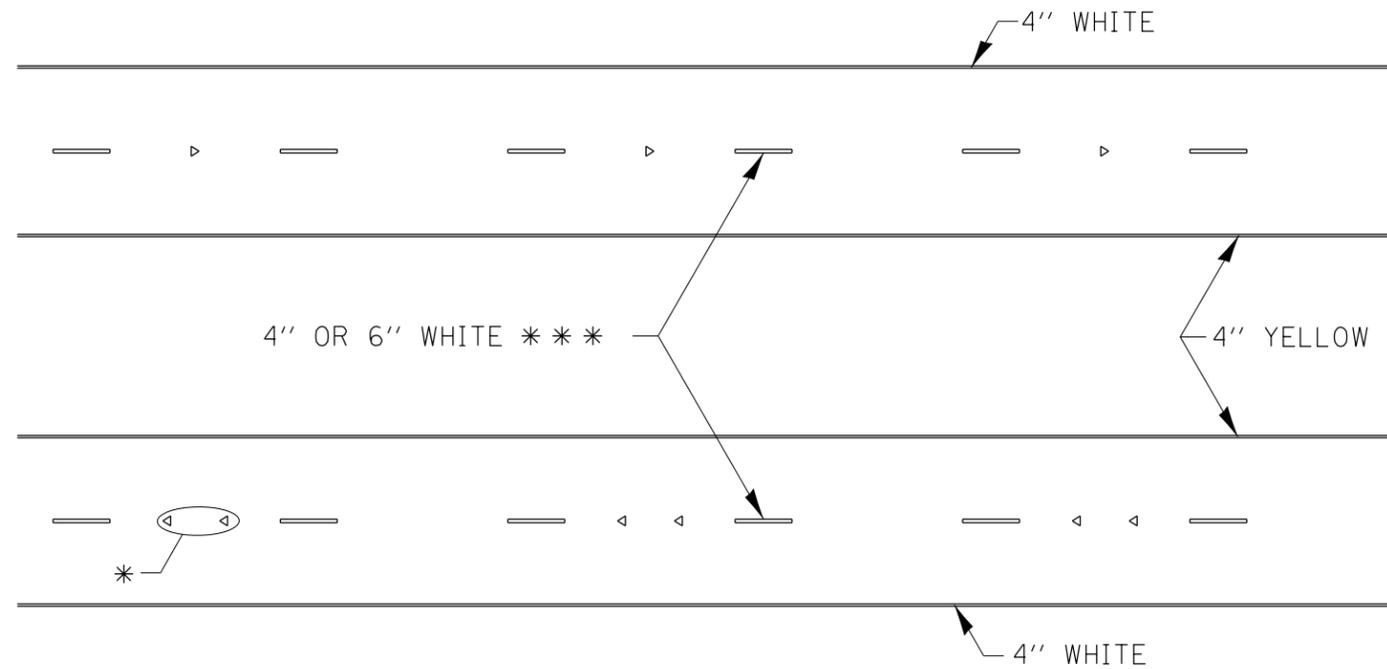
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

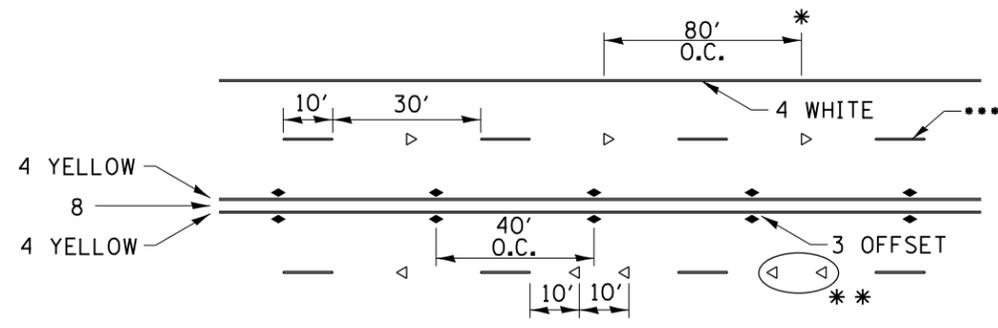
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(161-1HB-3)BP	ROCK ISLAND	14	8
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L69	

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT > 20,000.

MULTI-LANE / DIVIDED



* REDUCE TO 40' O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH LOWER THAN POSTED SPEEDS.

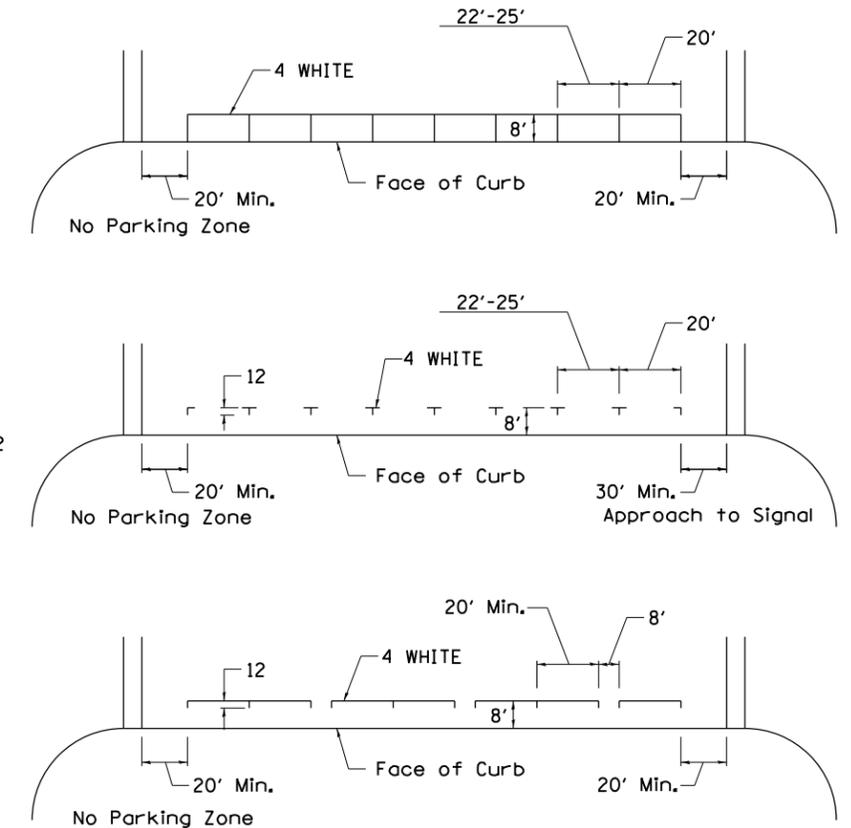
** USE DOUBLE MARKERS WHEN ADT ≥ 20,000

*** CENTERLINE SKIP DASH PAVEMENT MARKING SPEED LIMIT LESS THAN 40 MPH USE 4" LINE. SPEED LIMIT 40 MPH AND OVER USE 6" LINE.

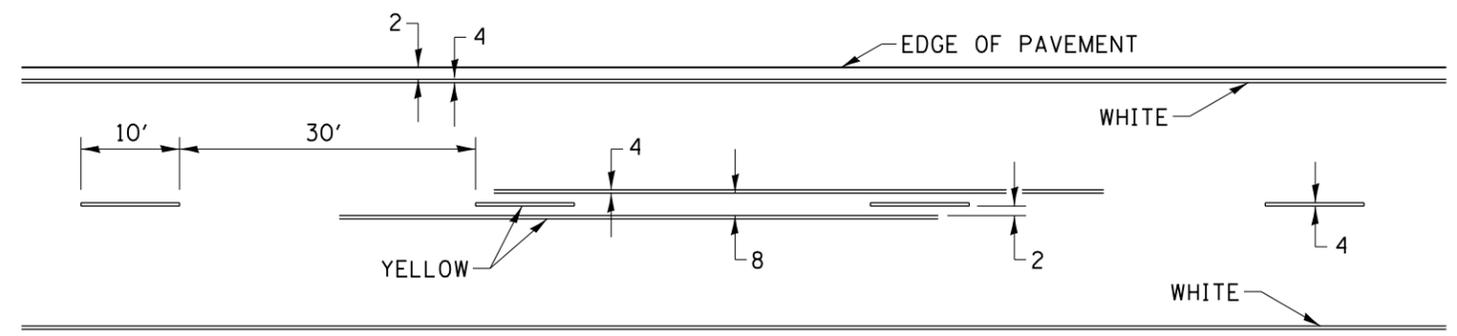
MULTI-LANE / UNDIVIDED & ONE WAY

(FOR MULTI-LANE UNDIVIDED HIGHWAYS USE THIS DETAIL NOT HIGHWAY STANDARD 781001)

TYPICAL PARKING SPACING



TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



SYMBOLS

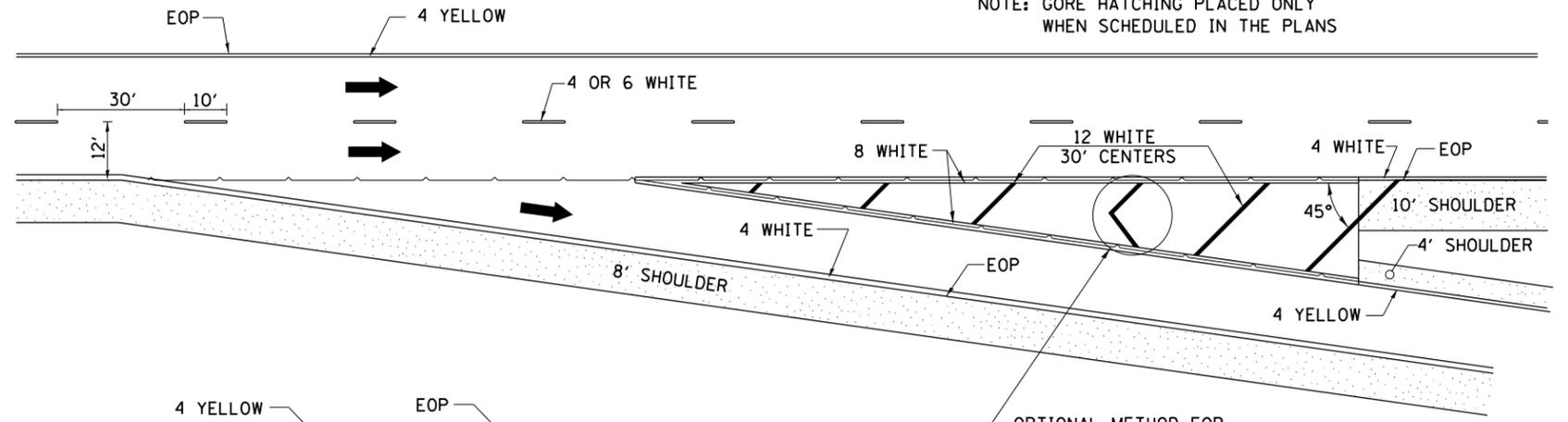
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D:\BR\Draws\Rock Island\64L69 Cleaning and Painting SN 081-0124\CADD\64L69-sht.dgn	DRAWN -	REVISED - 8-27-13	88				(161-1HB-3)BP	ROCK ISLAND	14	9	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - 11-28-12	CONTRACT NO. 64L69								
PLOT DATE = Aug-30-2016 02:31:38 PM	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								
			SCALE: _____	SHEET NO. _____ OF _____ SHEETS	STA. _____ TO STA. _____						

PAINING DETAILS

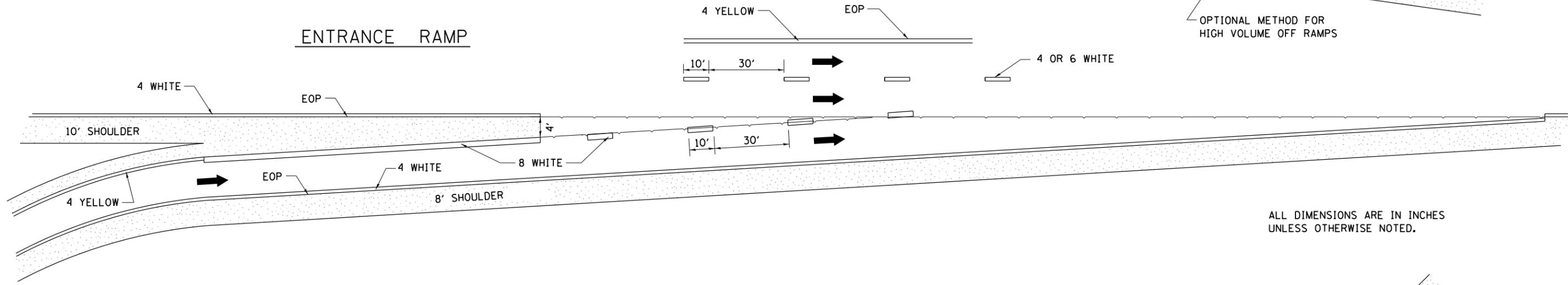
CENTERLINE SKIP DASH PAVEMENT MARKING WIDTH SHALL BE 4" WHEN THE POSTED SPEED LIMIT IS UNDER 40 MPH AND 6" WHEN THE POSTED SPEED LIMIT IS 40 MPH AND OVER.

EXIT RAMP

NOTE: GORE HATCHING PLACED ONLY WHEN SCHEDULED IN THE PLANS

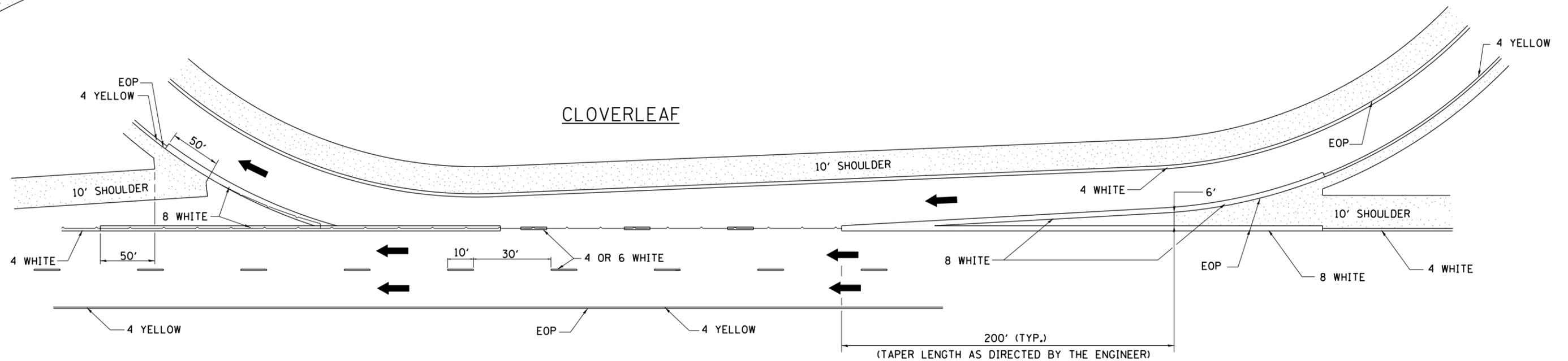


ENTRANCE RAMP



ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

CLOVERLEAF



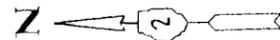
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		CHECKED -	REVISED -
		DATE -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REGION 2 / DISTRICT 2 STANDARD

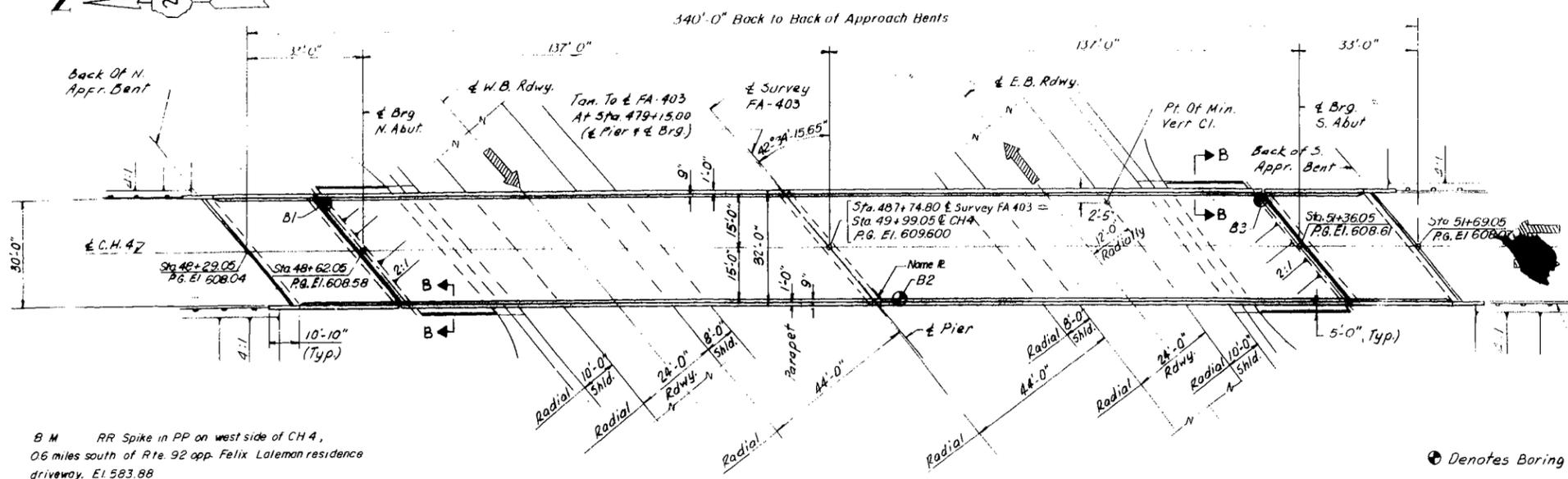
SCALE: _____ SHEET NO. ____ OF ____ SHEETS STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
88	(161-1HB-3)BP	ROCK ISLAND	14	10
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT			CONTRACT NO. 64L69	



CURVE DATA:
 PI Sta. 461+53.59
 $\Delta = 43^{\circ}00'11.6''$
 $D = 0^{\circ}45'$
 $T = 3009.37'$
 $L = 5733.53'$
 $R = 7639.44'$
 0.034'/ft. Superelevation

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
403	161-1	ROCK ISLAND	545	266	13 SHEETS



GENERAL NOTES
 ALL REINFORCEMENT BARS SHALL BE LAPPED 24 DIAMETERS UNLESS OTHERWISE SHOWN.
 FIELD CONNECTIONS SHALL BE BOLTED USING HIGH STRENGTH BOLTS. BOLTS 3/4" ϕ OPEN HOLES 13/16" ϕ , UNLESS OTHERWISE NOTED.

THE BASIC LEAD SILICO CHROMATE PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF STRUCTURAL STEEL.
 FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM OF FLANGE OF BEAMS OR GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

ANCHOR BOLTS SHALL BE SET BEFORE BOLTING CROSS FRAMES OVER SUPPORTS.
 SLOPE WALL SHALL BE REINFORCED WITH WELDED WIRE FABRIC 6" x 6" MESH, WEIGHING 50# PER 100 SQ. FT..

THE EMBANKMENT CONFIGURATION SHOWN SHALL BE THE MINIMUM EMBANKMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.

THE CONTRACTOR SHALL DRIVE THREE STEEL TEST PILES IN A PERMANENT LOCATION, ONE EACH AT THE NORTH AND SOUTH ABUTMENTS AND PIER AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF THE PILES.

THE CONCRETE RAIL SECTION ABOVE THE MANDATORY CONST. JOINT AT THE TOP OF THE SLAB SHALL BE CONSTRUCTED OF CLASS X CONCRETE, EXCEPT THE AGGREGATES SHALL CONFORM TO THE REQUIREMENTS OF HANDRAIL CONCRETE.

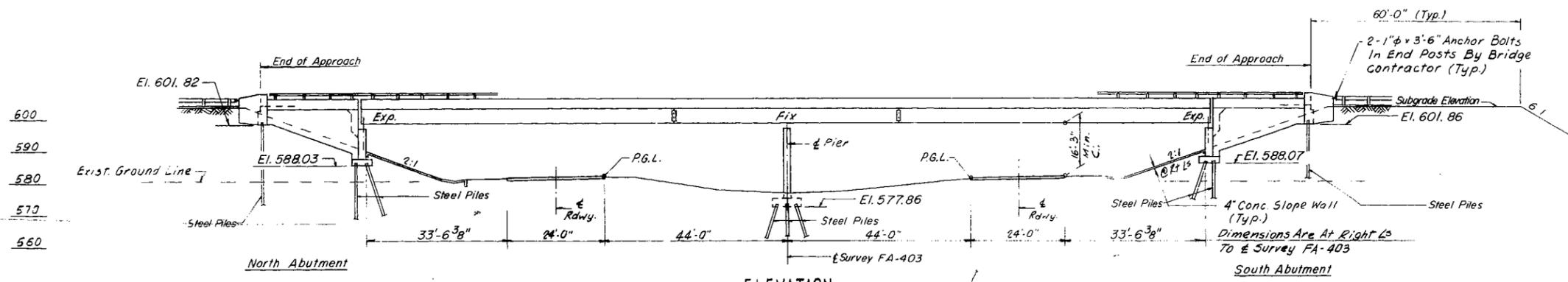
PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH WATERPROOFING MEMBRANE SYST. IS APPLIED.

The main load carrying member components subject to the Supplemental Requirements for Notch Toughness are the flanges, webs, and splice plates of the steel girders or wide flange beams.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\pm 1/8$ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $1/8$ " adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.

B.M. RR Spike in PP on west side of CH 4, 0.6 miles south of Rte. 92 opp. Felix Laleman residence driveway, El. 583.88

PLAN

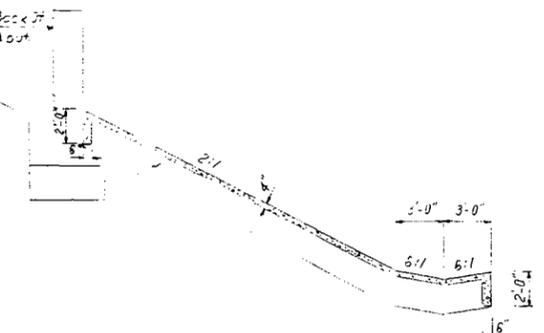


ELEVATION

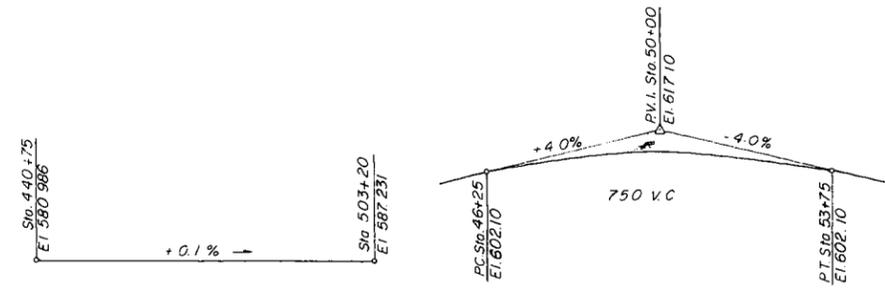
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER STRUCT.	SUB STRUCT.	TOTAL
STRUCTURE EXCAVATION	CU. YDS.	--	15	15
PROTECTIVE COAT	SQ. YDS.	256	--	256
CLASS "X" CONCRETE	CU. YDS.	406.7	216.0	718.70
STRUCTURAL STEEL	L. SUM	0.24	--	0.24
ALUMINUM RAILING	LIN. FT.	867	--	867
REINFORCEMENT BARS	LBS.	92,600	33,650	126,250
STEEL SHEAR CONNECTORS	EACH	1,650	--	1,650
PERMANENT B.M. TYPE I	EACH	1	--	1
STEEL PILES HP8 X 36	LIN. FT.	--	2,975	2,975
TEST PILES HP8 X 36	EACH	--	3	3
NAME PLATES	EACH	--	1	1
SLOPE WALL (4")	SQ. YDS.	--	297	297
BIT. CONC. SURFACE COURSE, CL. 1	TONS	48	--	48
Waterproofing Mem System	SQ. YDS.	1,072	--	1,072
SAND BACKFILL	CU. YDS.	--	390	390
NEOPRENE EXP. JOINT (2")	LIN. FT.	84	--	84

* CALCULATED WEIGHT OF STRUCTURAL STEEL = 407,950 LBS

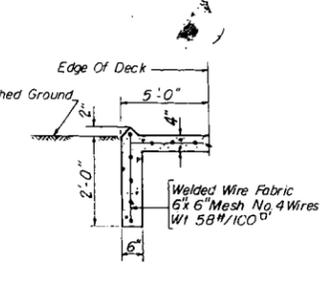


SECTION THRU SLOPEWALL AT ABUT.

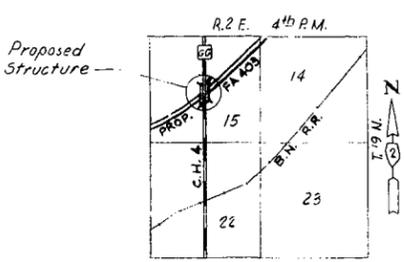


PROFILE FA-403 ALONG & SURVEY

PROFILE C.H. 4 TOP OF CLASS I



SECTION B-B



LOCATION MAP

DESIGN NOTES

DESIGN LOADING:
 HS 20-44 And Allowance For 25 PSF Future Wearing Surface

DESIGN STRESSES:
 $f_c = 1400$ PSI. Except As Follows:
 $f_c = 1200$ PSI For Deck Slab
 $f_c = 1000$ PSI For Conc. In Contact With Earth
 $f_s = 20,000$ PSI - M183 Structural Steel
 $f_s = 20,000$ PSI - Reinforcement Steel
 $v = 75$ PSI Allowable Shear In Footings
 $n = 10$
 Allowable Live Load Deflection = $L/1200$ (Composite)

DESIGN SPECIFICATIONS:
 AA SHO 1969 As Applicable

STATION 487+74.80
 BUILT 19 BY
 STATE OF ILLINOIS
 FA 403 SECTION 161-1HB-3
 FA PROJ. EBRF-403-1(7)
 LOADING HS 20

NAME PLATE
 SEE STD. 213

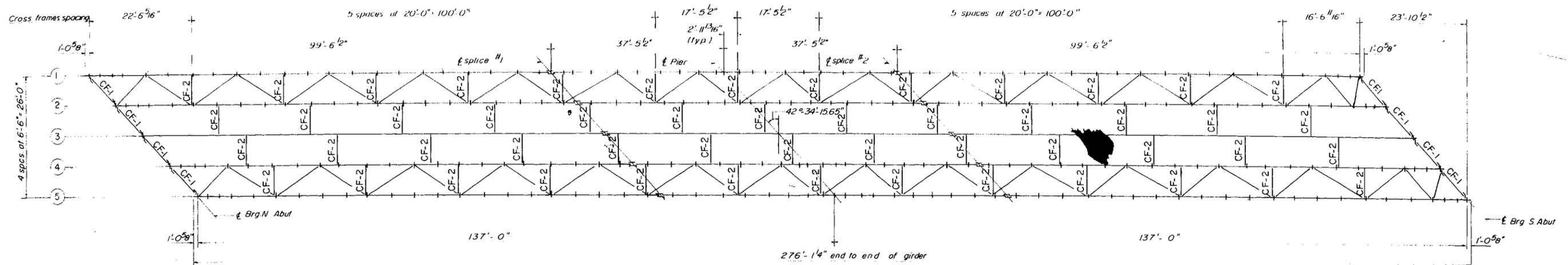
DESIGNED	H.S.
CHECKED	B.T.M.
DRAWN	I.P.
CHECKED	H.S.

GENERAL PLAN & ELEVATION

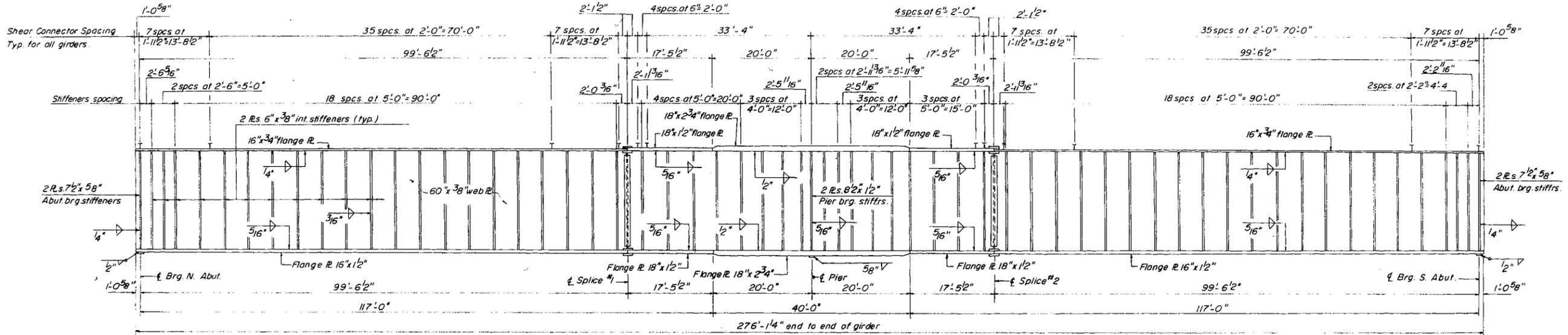
FA 403 SECTION 161-1HB-3
 FA 403 UNDER C.H. 4
 ROCK ISLAND COUNTY
 STATION 487+74.80

Rev. Reinf. Bars Super from 92,460# to 92,600#. Sub from 33,510# to 33,650#. Total from 125,970# to 126,250# 10-17-74 D.D.

FOR INFORMATION ONLY



FRAMING PLAN



GIRDER ELEVATION

(Composite in Positive Moment Areas only)

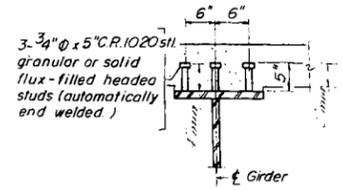
INTERIOR GIRDER MOMENT TABLE		
	O.4 Span 1	Pier
I _s (in ⁴)	38,237.8	104357.1
I _c (in ⁴)	87,451.8	—
S _s (in ³)	1520.5	3186.5
S _c (in ³)	1986.5	—
Q	0.848	1.084
M _Q (k)	912.5	-2,566.8
f _s Q (ksi)	7.20	9.67
S _Q (k/ft)	0.416	0.416
M _s Q (k)	539.3	-994.1
M _Q +Imp. (k)	1247.5	-1416.3
M _s Q+Imp. (k)	1786.8	-2410.4
f _s Q (ksi)	10.80	9.08
f _s Total (ksi)	18.00	18.75
VR (k)	57.0	—

INTERIOR GIRDER REACTION TABLE		
	Abutment	Pier
R _Q (k)	61.1	234.8
R _Q +Imp. (k)	51.6	100.0
R Total (k)	112.7	334.8

I_s and S_s are the moment of inertia and section modulus of the steel section

I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s

VR is the maximum Q + Impact Shear range in Span.

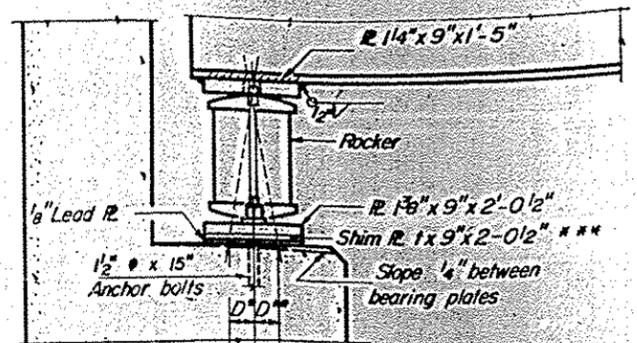


SECTION A-A

DESIGNED	B.T.M.
CHECKED	H.R.S.
DRAWN	A.M.
CHECKED	B.T.M.

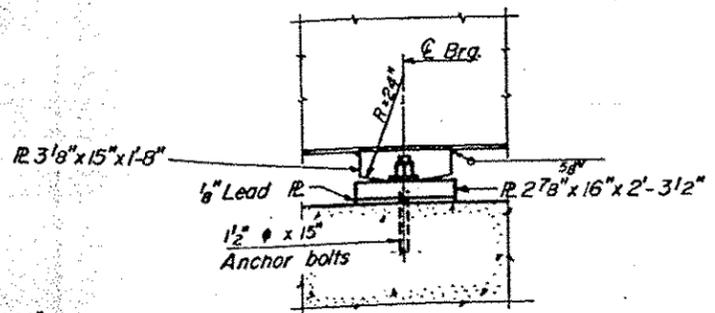
STRUCTURAL STEEL
FA 403 SECTION 161-IHB-3
FA 403 UNDER CH 4
ROCK ISLAND COUNTY
STATION 487+74.80

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
403	161-1-1	ROCK ISLAND	545	273

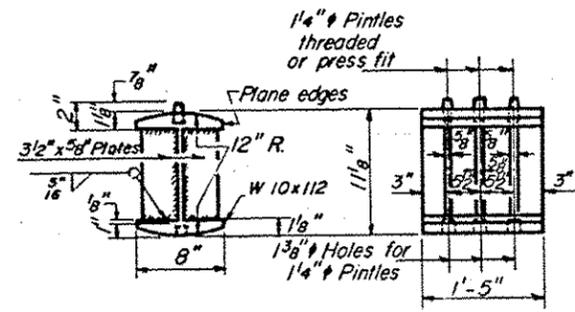


SECTION

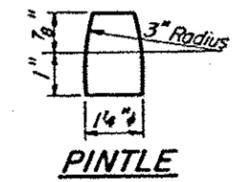
	N. Abut.	S. Abut.
G ₁	-	-
G ₂	-	3/8"
G ₃	5/8"	5/8"
G ₄	1/2"	-



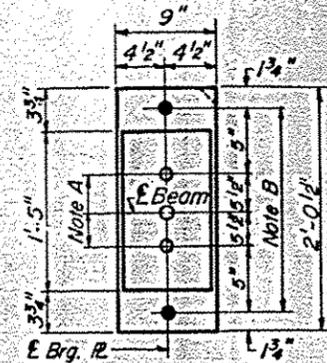
ELEVATION



ROCKER

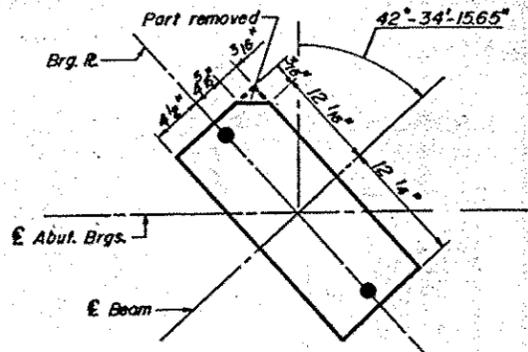


PINTLE

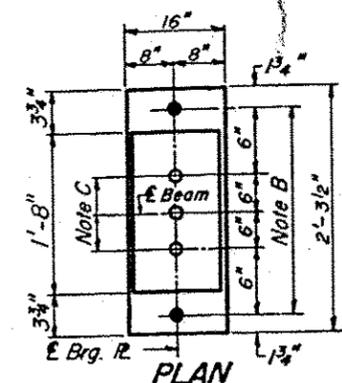


PLAN

AT ABUTMENT



DETAIL SHOWING CUT OF ABUT. BEARING PLATES (BOTTOM)



PLAN

AT PIER

NOTE A
1 3/8" Holes - 1" deep in top R. for pintles. Thread or press fit pintles into bottom R.

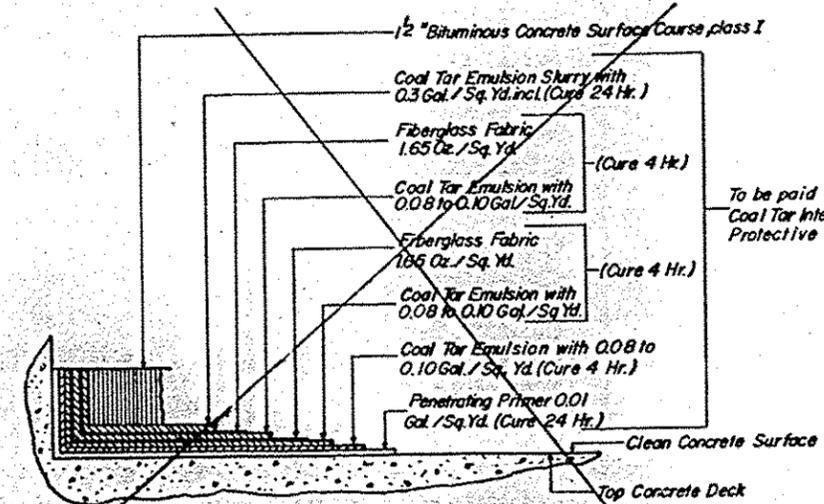
NOTE B
2" Holes for 1 1/2" anchor bolts. 5/16" x 3" x 3" R. Washers under nut.

NOTE C
1 3/8" Holes 1" deep in top R. only for 1 1/4" pintles. Thread or press fit pintles in bottom R.

BEARING ASSEMBLY DETAILS

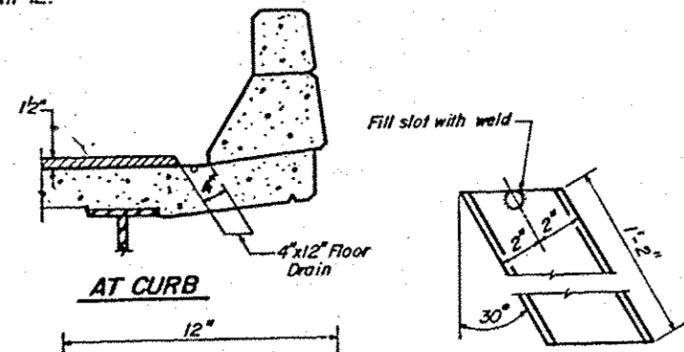
NOTES ON SETTING OF ANCHOR BOLTS AT EXP. BRGS.

- a) D* (Side of brg. away from fixed brg.)
D* = 1/8" per each 100' of expansion for every 15° fall below the normal temp. of 50°F.
- D** (Side of brg. toward fixed brg.)
D** = 1/8" per each 100' of expansion for every 15° rise above the normal temp. of 50°F.
- b) After beams have been erected and dimensions D* or D** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.



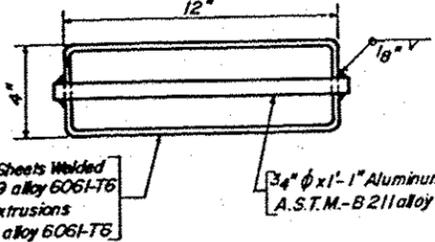
DECK SURFACING

with Coal Tar Interlayer Protective Coat



AT CURB

END VIEW



TOP VIEW

FLOOR DRAINS

Cost Incidental

FOR INFORMATION ONLY

BEARINGS
FA 403 SECTION 161-IHB-3
FA 403 UNDER CH. 4
ROCK ISLAND COUNTY
STATION 487 + 74.80

DESIGNED	B.T.M.
CHECKED	D.N.
DRAWN	Z.W.
CHECKED	P.B.