09-18-2020 LETTING ITEM 025

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEETS NO. 3 TO 7

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	1
	ILLINOIS	CONTRACT NO. 70602		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

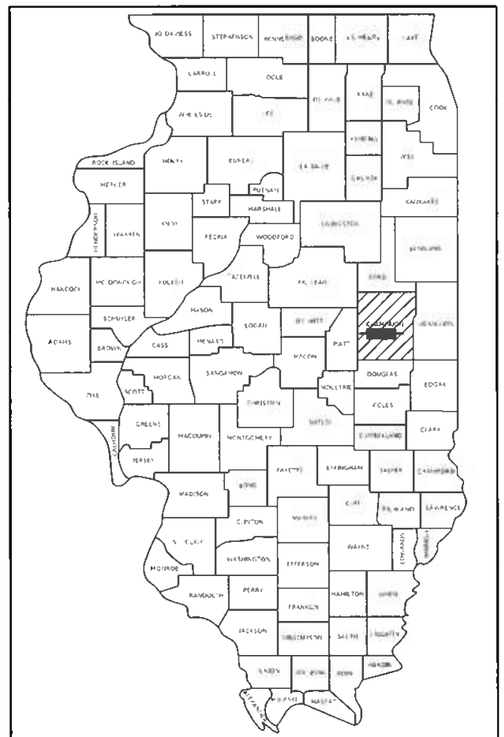
PROPOSED HIGHWAY PLANS

FAP ROUTE 801 (ILL 10)
SECTION 4BR-2
PROJECT NHPP-6MPB(736)
BRIDGE SUPERSTRUCTURE
CHAMPAIGN COUNTY

C-95-053-18

COPPER SLOUGH W OF DUNCAN RD

D-95-116-06



LOCATION OF SECTION INDICATED THUS:-

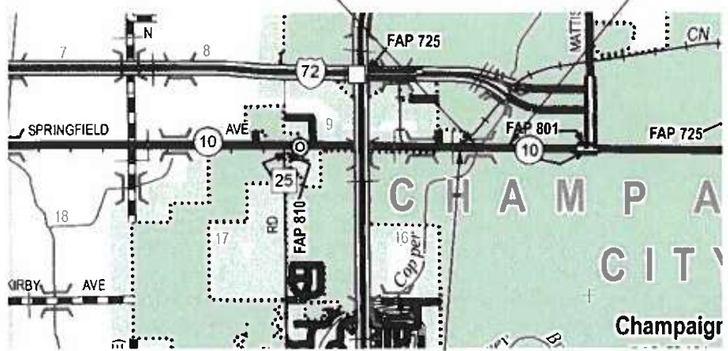
TRAFFIC DATA

2020 ADT	=	7,950
PV%	=	91.2%
SU%	=	5.7%
MU%	=	3.1%

SUPERSTRUCTURE REPLACEMENT
STA. 84+18.00
S.N. 010-0247
40'-8" B-B ABUTS.
44'-0" OUT-OUT DECK
NO SKEW

BEGIN SECTION 4BR-2
STA. 81+28.00

R 8 E



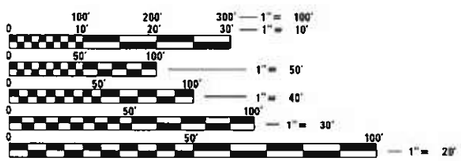
T 19 N

N

END SECTION 4BR-2
STA. 86+56.00

TOWNSHIP:
CHAMPAIGN

FUNCTIONAL CLASSIFICATION:
OTHER PRINCIPAL ARTERIAL



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

SCALE FOR MAIN MAP

0 1 2 3 4 5 Miles
0 5,000 10,000 15,000 20,000 25,000 Feet

GROSS LENGTH = 528.00 FT. = 0.100 MILE
NET LENGTH = 528.00 FT. = 0.100 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 6/23 2020
Kenneth A. Hanneken
REGIONAL ENGINEER
August 14, 2020
ENGINEER OF DESIGN AND ENVIRONMENT
August 14, 2020
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: JASON W. STULTS
SQUAD LEADER: RYAN T. CARROLL
DESIGNER: TYLER J. PIERSON
PHONE: (217)-465-4181
CONTRACT NO. 70602

INDEX OF SHEETS

LIST OF STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001-04	NAME PLATE FOR BRIDGES
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
635001-02	DELINEATORS
701001-02	OFF-RD OPERATIONS, 2L, 2W MORE THAN 15' (4.5M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701901-08	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

GENERAL NOTES

G.N.-100A
ELECTRONIC FILES AND/OR ELECTRONIC SURVEY INFORMATION INCLUDING CADD FILES WILL NOT BE AVAILABLE TO THE CONTRACTOR.

G.N.-105.09A
ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N. -406H
MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

Location	IL 10	IL 10
Mixture Use	*Surface Mainline & Top 1 1/2" of shoulder Incidental	*Binder Bottom 6 1/2" of Shoulder
AC/PG	PG 64-22	PG 64-22
Design Air Voids	4.0% @ Ndes=70	4.0% @ Ndes=50
Mix Comp(Gradation)	IL 9.5	IL 19.0
Friction Aggregate	Mix D	N.A.
Mixture Weight	112	112
Quality Management Program	QC/QA	QC/QA
Sublot Size	N.A.	N.A.

* Option to use the surface mix for all 8" of shoulder or 19.0 Binder on the bottom 6 1/2" of shoulder

G.N.- 703A
SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (TACK COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G.N.- 781
THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS.

EXCAVATED SOIL INFORMATION
ALL EXCAVATED SOIL ASSOCIATED WITH THE SHOULDER REMOVAL, APPROACH PAVEMENT REMOVAL, APPROACH FOOTING AND FLEXIBLE CONNECTOR SHALL REMAIN ON OR BE INCORPORATED WITHIN THE EXISTING ROW FOR THE PROJECT.

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS CONTRACT.

USER NAME = PiersonTJ	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, LIST OF STANDARDS, COMMITMENTS, & GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	2
		CONTRACT NO. 70602		
	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

LOCATION OF WORK:	FAP 801 (ILL 10) OTHER PRINCIPAL ARTERIAL URBAN MULTILANE STA.81+28.00 STA. 86+56.00 CHAMPAIGN CO
FUNDING BREAKOUT:	80% FED / 20% STATE
CONSTRUCTION TYPE CODE:	0013

	CODE NO.		ITEM	UNIT	TOTAL QUANTITY
	20300100		CHANNEL EXCAVATION	CU YD	257.00
	28000400		PERIMETER EROSION BARRIER	FOOT	132.00
	28100107		STONE RIPRAP, CLASS A4	SQ YD	286.00
	28200200		FILTER FABRIC	SQ YD	286.00
	31101100		SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	53.00
	40600290		BITUMINOUS MATERIALS (TACK COAT)	POUND	803.00
	40604062		HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	156.00
	40800029		BITUMINOUS MATERIALS (TACK COAT)	POUND	93.00
	40800050		INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	18.00
	42000080		PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	147.00
	44000100		PAVEMENT REMOVAL	SQ YD	125.00
	44000155		HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	1,757.00
	44004250		PAVED SHOULDER REMOVAL	SQ YD	99.00
	48102100		AGGREGATE WEDGE SHOULDER, TYPE B	TON	30.00

* DENOTES SPECIALTY ITEM

MODEL: $MODELNAME$
FILE NAME: pw:\\ulanroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D570602\CADData\Design\D570602-sht-500.dgn

USER NAME = PiersonTJ	DESIGNED -	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2020	DATE -	REVISED -	

SUMMARY OF QUANTITIES

SCALE: | SHEET 1 OF 5 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	3
		CONTRACT NO. 70602		
	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

LOCATION OF WORK:	FAP 801 (ILL 10) OTHER PRINCIPAL ARTERIAL URBAN MULTILANE STA.81+28.00 STA. 86+56.00 CHAMPAIGN CO
FUNDING BREAKOUT:	80% FED / 20% STATE
CONSTRUCTION TYPE CODE:	0013

	CODE NO.		ITEM	UNIT	TOTAL QUANTITY
	48203023		HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	55.00
	50101500		REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1.00
	50102400		CONCRETE REMOVAL	CU YD	4.80
	50300225		CONCRETE STRUCTURES	CU YD	27.20
	50300300		PROTECTIVE COAT	SQ YD	478.00
	50301350		CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	129.70
	50400305		PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	1,665.00
	50800205		REINFORCEMENT BARS, EPOXY COATED	POUND	52,830.00
	50901050		STEEL RAILING, TYPE SM	FOOT	121.00
	51500100		NAME PLATES	EACH	1.00
	550A0120		STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	116.00
	55101200		STORM SEWER REMOVAL 24"	FOOT	116.00
	61100500		EXPLORATION TRENCH 52" DEPTH	FOOT	97.00
*	63000001		STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	13.00

* DENOTES SPECIALTY ITEM

USER NAME = PiersonTJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE. 801 / SECTION 4BR-2 / COUNTY CHAMPAIGN / TOTAL SHEETS 44 / SHEET NO. 4
	DRAWN -	REVISED -			CONTRACT NO. 70602
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT
PLOT DATE = 6/22/2020	DATE -	REVISED -			

REV. 7/14/20

SUMMARY OF QUANTITIES

LOCATION OF WORK:	FAP 801 (ILL 10) OTHER PRINCIPAL ARTERIAL URBAN MULTILANE STA.81+28.00 STA. 86+56.00 CHAMPAIGN CO
FUNDING BREAKOUT:	80% FED / 20% STATE
CONSTRUCTION TYPE CODE:	0013

	CODE NO.		ITEM	UNIT	TOTAL QUANTITY
*	63100045		TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1.00
*	63100087		TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	3.00
*	63100167		TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3.00
	63200310		GUARDRAIL REMOVAL	FOOT	612.00
	67000500		ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	5.00
	67100100		MOBILIZATION	L SUM	1.00
	70107025		CHANGEABLE MESSAGE SIGN	CAL DA	14.00
	70300210		TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	62.00
	70300220		TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3,168.00
	70300260		TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	196.00
*	72501000		TERMINAL MARKER - DIRECT APPLIED	EACH	3.00
*	72501100		TERMINAL MARKER - POST MOUNTED	EACH	1.00
*	78008300		POLYUREA PAVEMENT MARKING TYPE II - LETTERS AND SYMBOLS	SQ FT	62.00
*	78008310		POLYUREA PAVEMENT MARKING TYPE II - LINE 4"	FOOT	3,168.00
* DENOTES SPECIALTY ITEM					

USER NAME = PiersonTJ	DESIGNED -	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**SUMMARY OF QUANTITIES**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			801	4BR-2	CHAMPAIGN	44	5
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 70602		
PLOT DATE = 6/22/2020	DATE -	REVISED -		SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	

REV. 7/14/20

SUMMARY OF QUANTITIES

LOCATION OF WORK:	FAP 801 (ILL 10) OTHER PRINCIPAL ARTERIAL URBAN MULTILANE STA.81+28.00 STA. 86+56.00 CHAMPAIGN CO
FUNDING BREAKOUT:	80% FED / 20% STATE
CONSTRUCTION TYPE CODE:	0013

	CODE NO.		ITEM	UNIT	TOTAL QUANTITY
*	78008350		POLYUREA PAVEMENT MARKING TYPE II - LINE 12"	FOOT	196.00
*	78100100		RAISED REFLECTIVE PAVEMENT MARKER	EACH	22.00
*	78200005		GUARDRAIL REFLECTORS, TYPE A	EACH	8.00
	78300200		RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	30.00
	X0327980		PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1,314.00
	X4400196		HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	232.00
	X5030250		BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	261.00
	X5030305		CONCRETE WEARING SURFACE, 5"	SQ YD	185.00
*	X6310188		TRAFFIC BARRIER TERMINAL, TYPE 6A (MODIFIED)	EACH	1.00
*	X6330725		STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	13.00
	X7010216		TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.00
*	X7830060		GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	62.00
*	X7830070		GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	3,168.00
*	X7830078		GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	196.00
* DENOTES SPECIALTY ITEM					

USER NAME = PiersonTJ	DESIGNED -	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**SUMMARY OF QUANTITIES**		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED -				801	4BR-2	CHAMPAIGN	44 / 6
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -						CONTRACT NO. 70602	
PLOT DATE = 6/24/2020	DATE -	REVISED -		SCALE:	SHEET 4 OF 5 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES

LOCATION OF WORK:	FAP 801 (ILL 10) OTHER PRINCIPAL ARTERIAL URBAN MULTILANE STA.81+28.00 STA. 86+56.00 CHAMPAIGN CO
FUNDING BREAKOUT:	80% FED / 20% STATE
CONSTRUCTION TYPE CODE:	0013

	CODE NO.		ITEM	UNIT	ROADWAY QUANTITY
*	XZ193400		SURVEY MARKER, TYPE 2 (SPECIAL)	EACH	3.00
	Z0012754		STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	53.50
	Z0013798		CONSTRUCTION LAYOUT	L SUM	1.00
	Z0016702		DETOUR SIGNING	L SUM	1.00
	Z0029090		DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	435.00
* DENOTES SPECIALTY ITEM					

	USER NAME = PiersonTJ	DESIGNED -	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**SUMMARY OF QUANTITIES**
		DRAWN -	REVISED -		
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 6/22/2020	DATE -	REVISED -		SCALE: SHEET 5 OF 5 SHEETS STA. TO STA.

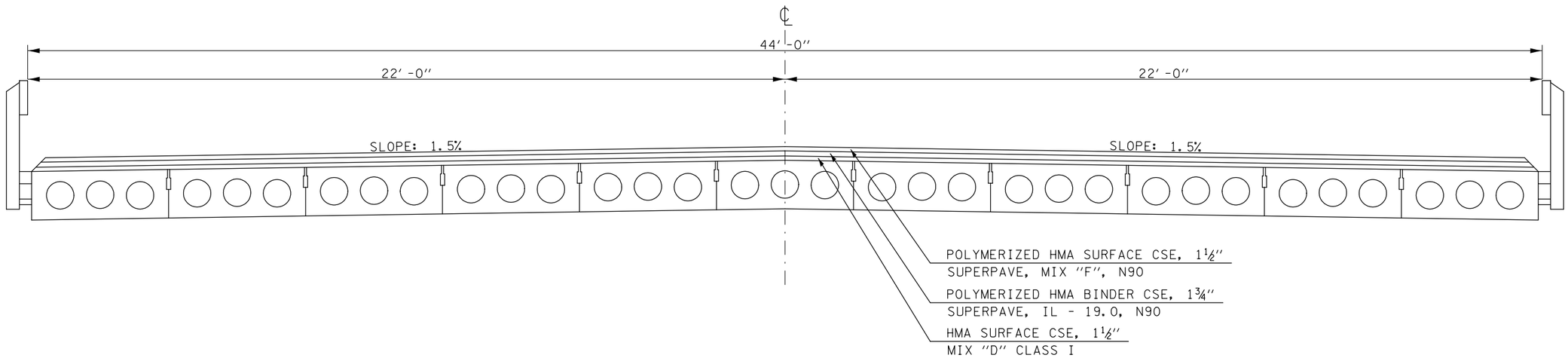
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	7
		CONTRACT NO. 70602		
	ILLINOIS FED. AID PROJECT			

REV. 7/14/20

(A) EXISTING TYPICAL CROSS SECTION.
ILL. 10 (SPRINGFIELD AVENUE)
STRUCTURE NO. 010–0247

STATION	TO	STATION
(B) 84+37.90		83+98.18 (B)

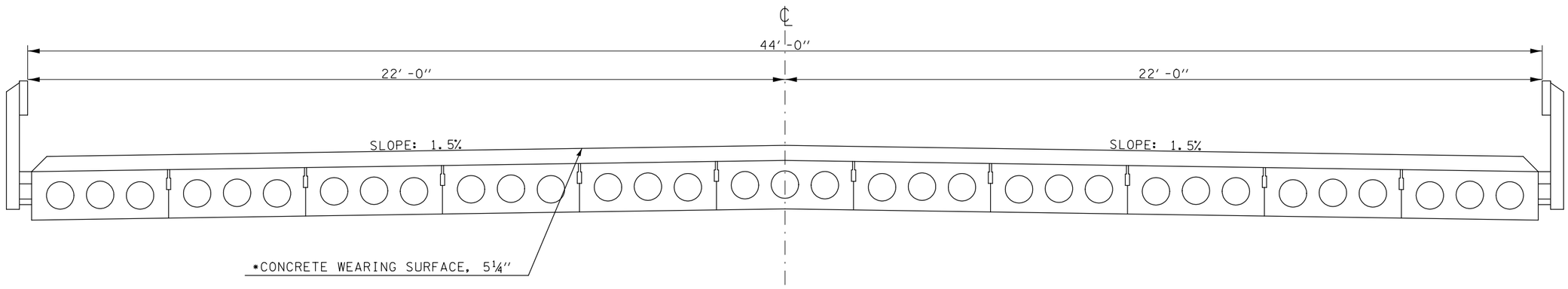
CENTERLINE STATION 84+20



(1) PROPOSED TYPICAL CROSS SECTION.
ILL. 10 (SPRINGFIELD AVENUE)
STRUCTURE NO. 010–0247

STATION	TO	STATION
(2) 84+37.90		83+98.18 (2)

CENTERLINE STATION 84+20



*PRIOR TO GRINDING

USER NAME = PiersonTJ	DESIGNED -	REVISED -	**STATE OF ILLINOIS**
	DRAWN -	REVISED -	**DEPARTMENT OF TRANSPORTATION**
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2020	DATE -	REVISED -	

ILL 10 TYPICAL CROSS-SECTIONS

SCALE: N.T.S. | SHEET 1 OF 2 SHEETS | STA. | TO STA.

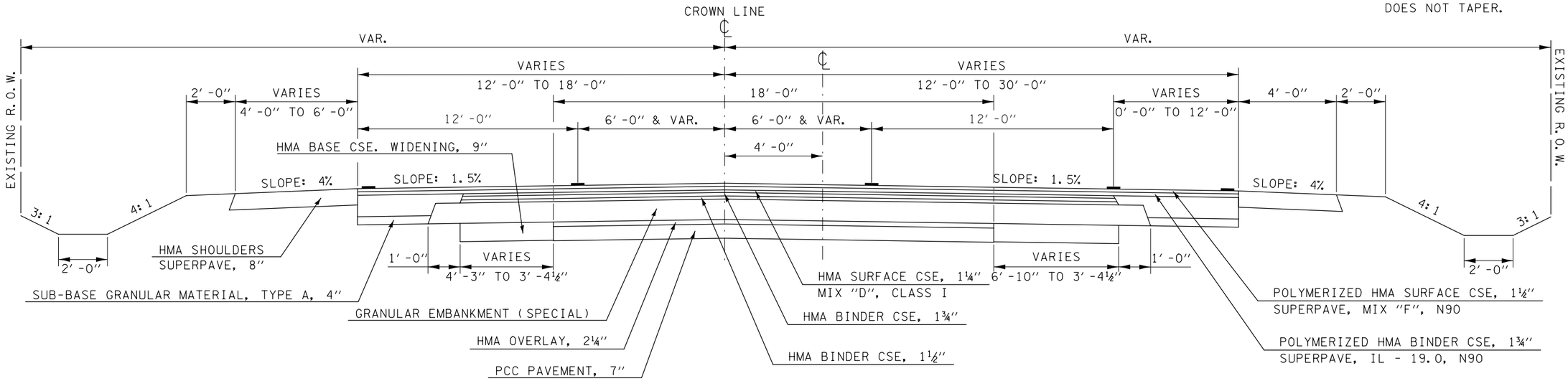
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	8
		CONTRACT NO. 70602		
	ILLINOIS FED. AID PROJECT			

MODEL: $MODELNAME$
FILE NAME: pw:\\dbnroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D570602\CADData\Design\D570602-sht-Typical Cross Sections.dgn

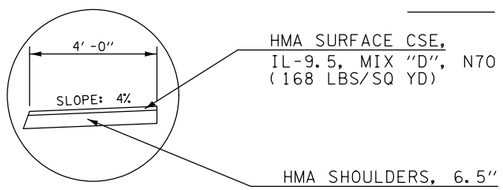
(B) EXISTING TYPICAL CROSS SECTION.
ILL. 10 (SPRINGFIELD AVENUE)

STATION	TO	STATION
81+28.00		84+37.90 (A)
(A) 83+98.18		86+56.00

NOTE: FROM STATION 84+60 TO STATION 83+52 CROWN LINE STAYS 4' RIGHT OF CL AND DOES NOT TAPER.



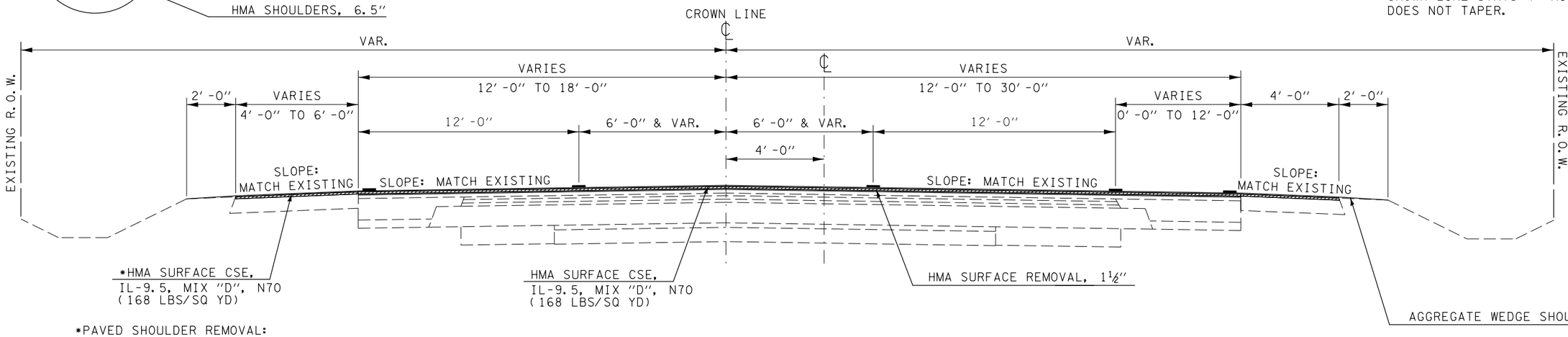
*HMA SHOULDERS, 6.5"



(2) PROPOSED TYPICAL CROSS SECTION.
ILL. 10 (SPRINGFIELD AVENUE)

STATION	TO	STATION
81+28.00		84+37.90 (1)
(1) 83+98.18		86+56.00

NOTE: FROM STATION 84+60 TO STATION 83+52 CROWN LINE STAYS 4' RIGHT OF CL AND DOES NOT TAPER.



*PAVED SHOULDER REMOVAL:
STA. 83+17.19 LT/RT TO STA. 83+97.99 RT
STA. 84+38.01 LT/RT TO STA. 85+01.91 LT/RT
STA. 83+85.57 LT/RT TO STA. 83+98.50 LT

*HMA SHOULDERS, 6.5":
STA. 83+17.19 LT/RT TO STA. 83+59.09 LT/RT
STA. 84+76.91 LT/RT TO STA. 85+01.91 LT/RT

HMA SURFACE REMOVAL VARIABLE DEPTH, 1" TO 1½"

USER NAME = PiersonTJ	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2020	DATE -	REVISED -	

ILL 10 TYPICAL CROSS-SECTIONS

SCALE: N.T.S. | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN		
		CONTRACT NO. 70602		
	ILLINOIS FED. AID PROJECT			

MODEL: $MODELNAME$
FILE NAME: pw:\\dlanroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D5 70602\CADData\Design\D5 70602-sht-Typical Cross Sections.dgn

SCHEDULE OF QUANTITIES

EASTBOUND PAVEMENT INLAY SCHEDULE

STA	TO	STA	LENGTH FT	START OFFSET FT	END OFFSET FT	AVERAGE PAVEMENT WIDTH FT	40600290 BIT MATL (TACK COAT) POUND	40604062 HMA SURFACE COURSE IL-9.5, MIX "D" N70, 1.50 IN TON
81+28.00	TO	83+54.09	226.09	14.79	13.75	14.27	161.32	30.11
84+81.91	TO	85+01.91	20.00	13.08	12.91	13	13.00	2.43
85+01.91	TO	86+56.00	154.09	12.91	11.66	12.29	94.69	17.68
						EASTBOUND TOTAL =	269.01	50.22
						EASTBOUND ROUNDED-TOTAL =	270.00	51.00

OFFSETS BASED OF SOUTHERN ALIGNMENT

WESTBOUND PAVEMENT INLAY SCHEDULE

STA	TO	STA	LENGTH FT	START OFFSET FT	END OFFSET FT	AVERAGE PAVEMENT WIDTH FT	40600290 BIT MATL (TACK COAT) POUND	40604062 HMA SURFACE COURSE IL-9.5, MIX "D" N70, 1.50 IN TON
81+28.00	TO	83+54.09	226.09	21.99	22.00	22.00	248.70	46.42
84+81.91	TO	85+01.91	20.00	19.82	19.06	19.44	19.44	3.63
84+86.91	TO	86+56.00	169.09	19.06	11.17	15.12	127.83	23.86
						WESTBOUND TOTAL =	395.97	73.91
						WESTBOUND ROUNDED-TOTAL =	396.00	74.00
						TOTALS =	666.00	125.00

OFFSETS BASED OF SOUTHERN ALIGNMENT

EASTBOUND SHOULDER INLAY SCHEDULE

STA	TO	STA	LENGTH FT	START WIDTH FT	END WIDTH FT	AVERAGE SHOULDER WIDTH FT	40600290 BIT MATL (TACK COAT) POUND	40604062 HMA SURFACE COURSE IL-9.5, MIX "D" N70, 1.5 IN TON
81+28.00	TO	83+17.19	189.19	4.91	4.11	4.51	42.66	7.96
85+01.91	TO	86+56.00	154.09	3.49	4.28	3.89	29.97	5.59
						EASTBOUND TOTAL =	72.63	13.55
						EASTBOUND ROUNDED-TOTAL =	73.00	14.00

WESTBOUND SHOULDER INLAY SCHEDULE

STA	TO	STA	LENGTH FT	START OFFSET FT	END OFFSET FT	AVERAGE PAVEMENT WIDTH FT	40600290 BIT MATL (TACK COAT) POUND	40604062 HMA SURFACE COURSE IL-9.5, MIX "D" N70, 1.5 IN TON
81+28.00	TO	83+17.19	189.19	3.62	3.50	3.56	33.68	6.29
85+01.91	TO	86+56.00	154.09	4.18	3.66	3.92	30.20	5.64
						WESTBOUND TOTAL =	63.88	11.93
						WESTBOUND ROUNDED-TOTAL =	64.00	12.00

HMA SHOULDER SCHEDULE

DIRECTION	STA	TO	STA	LENGTH FT	START WIDTH FT	END WIDTH FT	AVG WIDTH FT	AREA SQ FT	40604062 HMA SURFACE COURSE IL-9.5, MIX "D" N70, 1.5 IN TON	48203023 HMA SHOULDERS 6.5 IN SQ YD
EB	83+17.19	TO	83+54.09	36.90	4.11	4.00	4.06	149.63	1.40	16.63
WB	83+17.19	TO	83+54.09	36.90	4.07	4.00	4.04	148.89	1.39	16.54
EB	84+81.91	TO	85+01.91	20.00	4.92	3.49	4.21	84.10	0.78	9.34
WB	84+81.91	TO	85+01.91	20.00	6.18	4.17	5.18	103.50	0.97	11.50
								TOTAL =	4.54	54.01

RIGID CONNECTOR SCHEDULE

STA	TO	STA	LENGTH FT	CONNECTOR WIDTH FT	31101100 SUBBASE GRANULAR MATERIALS, TYPE B CU YD	42000080 PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SQ YD
83+54.09	TO	83+69.09	15.00	44.00	26.38	73.33
84+66.91	TO	84+81.91	15.00	44.00	26.38	73.33
				TOTAL =	52.76	146.66
				ROUNDED-TOTAL =	53.00	147.00

MAINLINE PAVEMENT REMOVAL SCHEDULE

STA	TO	STA	LENGTH FT	START WIDTH FT	END WIDTH FT	AVERAGE PAVEMENT WIDTH FT	44000100 PAVEMENT REMOVAL SQ YD
83+54.09	TO	83+78.18	24.09	36.45	36.55	36.50	97.70
84+58.12	TO	84+81.91	23.79	34.00	33.13	33.57	88.72
						TOTAL =	98.00

44000100 QUANTITY CONTINUES IN INCIDENTAL SCHEDULE

EASTBOUND HMA SURFACE REMOVAL SCHEDULE

STA	TO	STA	LENGTH FT	START OFFSET FT	END OFFSET FT	AVERAGE PAVEMENT WIDTH FT	44000155 HMA SURFACE REMOVAL 1.5" DEPTH SQ YD
81+28.00	TO	83+17.19	189.19	19.70	18.19	18.95	398.35
83+17.19	TO	83+54.09	36.90	14.08	13.75	13.92	57.07
84+81.91	TO	85+01.91	20.00	13.08	12.91	13	28.89
85+01.91	TO	86+56.00	154.09	16.40	15.94	16.17	276.85
						EASTBOUND TOTALS =	761.16
						EASTBOUND ROUNDED-TOTALS =	762.00

OFFSETS BASED OF SOUTHERN ALIGNMENT
VARIABLE DEPTH BETWEEN 1" AND 1.5"
INCLUDES HMA SHOULDER AREA WHERE APPLICABLE

WESTBOUND HMA SURFACE REMOVAL SCHEDULE

STA	TO	STA	LENGTH FT	START OFFSET FT	END OFFSET FT	AVERAGE PAVEMENT WIDTH FT	44000155 HMA SURFACE REMOVAL 1.5" DEPTH SQ YD
81+28.00	TO	83+17.19	189.19	25.61	25.43	25.52	536.46
83+17.19	TO	83+54.09	36.90	21.93	22.00	21.97	90.08
84+81.91	TO	85+01.91	20.00	19.82	19.06	19.44	43.2
85+01.91	TO	86+56.00	154.09	23.08	14.88	18.98	324.96
						WESTBOUND TOTALS =	994.70
						WESTBOUND ROUNDED TOTALS =	995.00
						TOTALS =	1757.00

OFFSETS BASED OF SOUTHERN ALIGNMENT
VARIABLE DEPTH BETWEEN 1" AND 1.5"
INCLUDES HMA SHOULDER AREA WHERE APPLICABLE

MODEL: SMODELNAME$
FILE NAME: pw:\\dlanroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 5\Projects\D5706021\C4\Data\Design\D5706021-sht-Schedules.dgn

USER NAME = PiersonTJ	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET 1 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	10
		CONTRACT NO. 70602		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

SHOULDER REMOVAL SCHEDULE

							44004250
DIRECTION	STA	TO	STA	LENGTH FT	AVG WIDTH FT	AREA SQ FT	PAVED SHOULDER REMOVAL SQ YD
EB	83+17.19	TO	83+97.99	80.8	4.31	348.25	38.69
WB	83+85.57	TO	83+98.50	12.93	2.63	33.94	3.77
EB	84+38.01	TO	85+01.91	63.9	3.77	240.58	26.73
WB	84+38.21	TO	85+01.91	63.7	4.18	265.95	29.55
						TOTAL =	98.74
						ROUNDED-TOTAL =	99.00

INCIDENTAL SCHEDULE

					40800029	40800050	44000100	X4400196
SIDE	STA	REMOVAL AREA SQ FT	RESURFACE AREA SQ FT	AVG THICKNESS IN	BIT MATL (TACK COAT) POUND	INCIDENTAL HMA SURFACING TON	PAVEMENT REMOVAL SQ YD	HMA SURFACE REMOVAL, SPECIAL SQ YD
LT	81+55.35	991.29	991.29	1.50	49.56	9.25	0.00	110.14
LT	83+56.48	1,089.00	862.33	1.50	43.12	8.05	27.00	121.00
				TOTALS =	92.68	17.30	27.00	231.14
				ROUNDED-TOTALS =	93.00	18.00	27.00	232.00

PAVEMENT REMOVAL MEASURED IN CADD

EASTBOUND AGGREGATE WEDGE SHOULDER SCHEDULE

						48102100
STA	TO	STA	LENGTH FT	WIDTH FT	AREA SQ FT	THICKNESS INCH	AGGREGATE SHOULDER WEDGE TYPE B TON
81+28.00	TO	83+99.09	271.09	2.00	542.18	3.00	9.04
84+36.91	TO	86+56.00	219.09	2.00	438.18	3.00	7.30
						EASTBOUND TOTAL =	16.34
						EASTBOUND ROUNDED-TOTAL =	17.00

OFFSETS BASED OF SOUTHERN ALIGNMENT

STORM SEWER SCHEDULE

	550A0120	55101200
LOCATION	STORM SEWER, CLASS A TY. 1 24" FOOT	STORM SEWER REMOVAL 24" FOOT
NE QUADRANT	25.00	25.00
NW QUADRANT	25.00	25.00
UNDER STRUCTURE	66.00	66.00
TOTAL =	116.00	116.00

USE AND QUANTITIES TO BE DETERMINED BY THE ENGINEER

WESTBOUND AGGREGATE WEDGE SHOULDER SCHEDULE

						48102100
STA	TO	STA	LENGTH FT	WIDTH FT	AREA SQ FT	THICKNESS INCH	AGGREGATE SHOULDER WEDGE TYPE B TON
81+86.26	TO	83+25.48	139.22	2.00	278.44	3.00	4.64
83+25.48	TO	83+75.21	49.73	0.00	0.00	0.00	0.00
83+75.21	TO	83+99.09	23.88	2.00	47.76	3.00	0.80
84+36.91	TO	86+56.00	219.09	2.00	438.18	3.00	7.30
						WESTBOUND TOTAL =	12.74
						WESTBOUND ROUNDED-TOTAL =	13.00
						TOTAL =	30.00

OFFSETS BASED OF SOUTHERN ALIGNMENT

EXPLORATION TRENCHING SCHEDULE

						61100500
LOCATION	STA	TO	STA	START OFFSET	END OFFSET	EXPLORATION TRENCH 52" DEPTH FOOT
NORTH RIPRAP LIMITS	83+98.34	TO	84+37.84	33.00	33.00	40.00
SOUTH RIPRAP LIMITS	83+98.33	TO	84+37.88	-33.00	-33.00	40.00
NEAR GUARDRAIL TERMINAL	86+05.00	TO	86+05.00	-33.00	-16.00	17.00
					TOTAL =	97.00

GUARDRAIL SCHEDULE

							63000001	63100045	63100087	63100167	63200310	72501000	72501100	78200005	X6310188	X6330725
	S.N.	DIRECTION	SIDE	SHORT RADIUS/ BENT GUARDRAIL RADII FT	L_1 FT	L_3 FT	STEEL PLATE BEAM GUARDRAIL TY-A, 6 FT	TRAFFIC BARRIER TERMINAL TY-2 EACH	TRAFFIC BARRIER TERMINAL TY-6A EACH	TRAFFIC BARRIER TERMINAL TY-1 (SPL) TAN EACH	GUARDRAIL REMOVAL FT	TERMINAL MARKER DIRECT APPLIED EACH	TERMINAL MARKER POST MOUNTED EACH	GUARDRAIL REFLECTORS TYPE A EACH	TRAFFIC BARRIER TERMINAL TY-6A (MODIFIED) EACH	STEEL PLATE BEAM GUARDRAIL SHORT RADIUS FT
	010-0247	EB	APPR		84	0	12.50		1.00	1.00	240.00	1.00		2.00		
	010-0247	EB	DEP		84	0			1.00	1.00	166.00	1.00		2.00		
*	010-0247	WB	APPR	17.2	84	0		1.00			39.00		1.00	2.00	1.00	12.50
	010-0247	WB	DEP		84	0			1.00	1.00	167.00	1.00		2.00		
					TOTALS =		13.00	1.00	3.00	3.00	612.00	3.00	1.00	8.00	1.00	13.00

*TRAFFIC BARRIER TERMINAL, TYPE 6A (MODIFIED) SHALL BE SPLICED AT POST 6

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FILE NAME: z:\\planroom.dot.illinois.gov\PWIDOT\Documents\IDOT Offices\District 5\Project\d5070602\CADData\Design\D5706025HT-Schedules.dgn

USER NAME = PiersonTJ	DESIGNED -	REVISED -	**STATE OF ILLINOIS**
	DRAWN -	REVISED -	**DEPARTMENT OF TRANSPORTATION**
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2020	DATE -	REVISED -	

SCHEDULE OF QUANTITIES

SCALE: | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	11
		CONTRACT NO. 70602		
	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES

PAVEMENT SYMBOL SCHEDULE

STA	SYMBOL	70300210 TEMPORARY PAVEMENT MARKING LETTER & SYMBOL SQ FT	70300260 TEMPORARY PAVEMENT MARKING LINE 12" FOOT	78008300 POLYUREA PAVEMENT MARKING TYPE II LETTER & SYMBOL SQ FT	78008350 POLYUREA PAVEMENT MARKING TYPE II LINE 12" (WHITE-SOLID) FOOT	X0327980 PAVEMENT MARKING REMOVAL WATER BLAST SQ FT	X7830060 GROOVING RECESSED PAVEMENT MARKING LETTER & SYMBOL SQ FT	X7830078 GROOVING RECESSED PAVEMENT MARKING 13" FOOT
86+04.19	RAILROAD	61.20	24.00	61.20	24.00	85.20	61.20	24.00
TOTALS =		62.00	24.00	62.00	24.00	86.00	62.00	24.00

MEASURED AT CENTER OF "X"
MATCH EXISTING LOCATION
PAVEMENT MARKING LETTER & SYMBOL INCLUDES TWO "R" LETTERS AND ONE "X"

EDGE OF PAVEMENT MARKING SCHEDULE

DIRECTION	STA	TO	STA	LENGTH FT	70300220 TEMPORARY PAVEMENT MARKING LINE 4" SOLID NO. LINE	70300220 SOLID (WHITE) FOOT	78008310 POLYUREA PAVEMENT MARKING TYPE II - LINE 4" SOLID NO. LINE	78008310 SOLID (WHITE) FOOT	X0327980 PAVEMENT MARKING REMOVAL WATER BLAST SQ FT	X7830070 GROOVING RECESSED PAVEMENT MARKING 5" FOOT
EB	81+28.00	TO	86+56.00	528.00	1.00	528.00	1.00	528.00	176.00	528.00
WB	81+28.00	TO	86+56.00	528.00	1.00	528.00	1.00	528.00	176.00	528.00
TOTALS =						1056.00		1056.00	352.00	1056.00
ROUNDED-TOTALS =						1056.00		1056.00	352.00	1056.00

CENTERLINE PAVEMENT MARKING SCHEDULE

DIRECTION	STA	TO	STA	LENGTH FT	70300220 TEMPORARY PAVEMENT MARKING LINE 4" SOLID NO. LINE	70300220 SOLID (YELLOW) FOOT	78008310 POLYUREA PAVEMENT MARKING TYPE II - LINE 4" SOLID NO. LINE	78008310 SOLID (YELLOW) FOOT	X0327980 PAVEMENT MARKING REMOVAL WATER BLAST SQ FT	X7830070 GROOVING RECESSED PAVEMENT MARKING 5" FOOT
EB	81+28.00	TO	86+56.00	528.00	2.00	1056.00	2.00	1056.00	352.00	1056.00
WB	81+28.00	TO	86+56.00	528.00	2.00	1056.00	2.00	1056.00	352.00	1056.00
TOTALS =						2112.00		2112.00	704.00	2112.00
ROUNDED-TOTALS =						2112.00		2112.00	704.00	2112.00

SURVEY MARKER TYPE 2 SCHEDULE

POINT NUMBER	NORTHING	EASTING	STA	OFFSET	DESCRIPTION	XZ193400 SURVEY MARKER TY. 2 SPL EACH
POINT 171	1,255,088.2311	994,364.2759	83+52.00	0.00	STATION EQN.	1.00
POINT 175	1,255,092.2307	994,364.3356	83+52.00	0.00	STATION EQN.	1.00
POINT 172	1,255,090.4343	994,216.7043	84+99.59	0.00	P.I. STATION	1.00
TOTAL =						3.00

DIAGONAL MARKING SCHEDULE

*STA	LENGTH FOOT	70300260 TEMPORARY PAVEMENT MARKING LINE 12" FOOT	78008350 POLYUREA PAVEMENT MARKING TYPE II LINE 12" WHITE FOOT	X0327980 PAVEMENT MARKING REMOVAL WATER BLAST SQ FT	X7830078 GROOVING RECESSED PAVEMENT MARKING 13" FOOT
82+12.00	5.23	5.23	5.23	5.23	5.23
82+32.00	6.61	6.61	6.61	6.61	6.61
82+52.00	7.98	7.98	7.98	7.98	7.98
82+72.00	9.36	9.36	9.36	9.36	9.36
82+92.00	10.74	10.74	10.74	10.74	10.74
83+12.00	12.11	12.11	12.11	12.11	12.11
83+32.00	13.49	13.49	13.49	13.49	13.49
83+52.00	14.66	14.66	14.66	14.66	14.66
83+72.00	14.02	14.02	14.02	14.02	14.02
83+92.00	12.94	12.94	12.94	12.94	12.94
84+12.00	11.85	11.85	11.85	11.85	11.85
84+32.00	10.76	10.76	10.76	10.76	10.76
84+52.00	9.67	9.67	9.67	9.67	9.67
84+72.00	8.58	8.58	8.58	8.58	8.58
84+92.00	7.50	7.5	7.5	7.5	7.50
85+12.00	6.41	6.41	6.41	6.41	6.41
85+32.00	5.33	5.33	5.33	5.33	5.33
85+52.00	4.23	4.23	4.23	4.23	4.23
TOTALS =		171.47	171.47	171.47	171.47
ROUNDED-TOTALS =		172.00	172.00	172.00	172.00

*STATION MEASURED AT INTERSECTION WITH SOUTHERN ALIGNMENT
SPACING 20 FOOT

REFLECTIVE PAVEMENT MARKER SCHEDULE

STA	TO	STA	LENGTH FT	78100100 RAISED REFLECTIVE PAVEMENT MARKER EACH	78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL EACH
81+28.00	TO	83+54.09	226.09	12.00	12.00
83+54.09	TO	84+81.91	127.82	0.00	8.00
84+81.91	TO	86+56.00	174.09	10.00	10.00
TOTALS =				22.00	30.00

40 FOOT SPACING

CONTROL POINTS

POINT	NORTHING	EASTING	STATION	OFFSET	DESCRIPTION	SURVEY MARKER TYPE
			ALIGNMENT: IL10WEST			
POINT 171	1,255,088.2311	994,364.2759	83+52.00	0.00	STATION EQN.	TYPE II SPECIAL MARKER
POINT 172	1,255,090.4343	994,216.7043	84+99.59	0.00	P.I. STATION	TYPE II SPECIAL MARKER
POINT 173	1,255,105.9221	993,470.4659	92+45.99	0.00	P.O.T. STATION	-
			ALIGNMENT: IL10EAST			
POINT 174	1,255,077.9100	995,333.1321	73+83.10	0.00	P.O.T. STATION	-
POINT 175	1,255,092.2307	994,364.3356	83+52.00	0.00	STATION EQN.	TYPE II SPECIAL MARKER

TRAVERSE STATIONS

POINT	NORTHING	EASTING	STATION	OFFSET
POINT 400	1,255,141.8147	993,537.5129	91+79.70	37.2761
POINT 401	1,255,127.5295	993,935.8107	87+81.19	31.2587
POINT 402	1,255,122.7616	994,270.2332	84+46.55	33.1228

USER NAME = PiersonTJ	DESIGNED -	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**CONTROL POINTS**	F.A.P. RTE. 801 / SECTION 4BR-2 / COUNTY CHAMPAIGN / TOTAL SHEETS 44 / SHEET NO. 13
	DRAWN -	REVISED -			CONTRACT NO. 70602
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -			
PLOT DATE = 6/22/2020	DATE -	REVISED -		SCALE: / SHEET 1 OF 1 SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

SEC. 09, T 19 N, R 8 E, 2ND PM

HMA SURFACE REMOVAL, SPECIAL

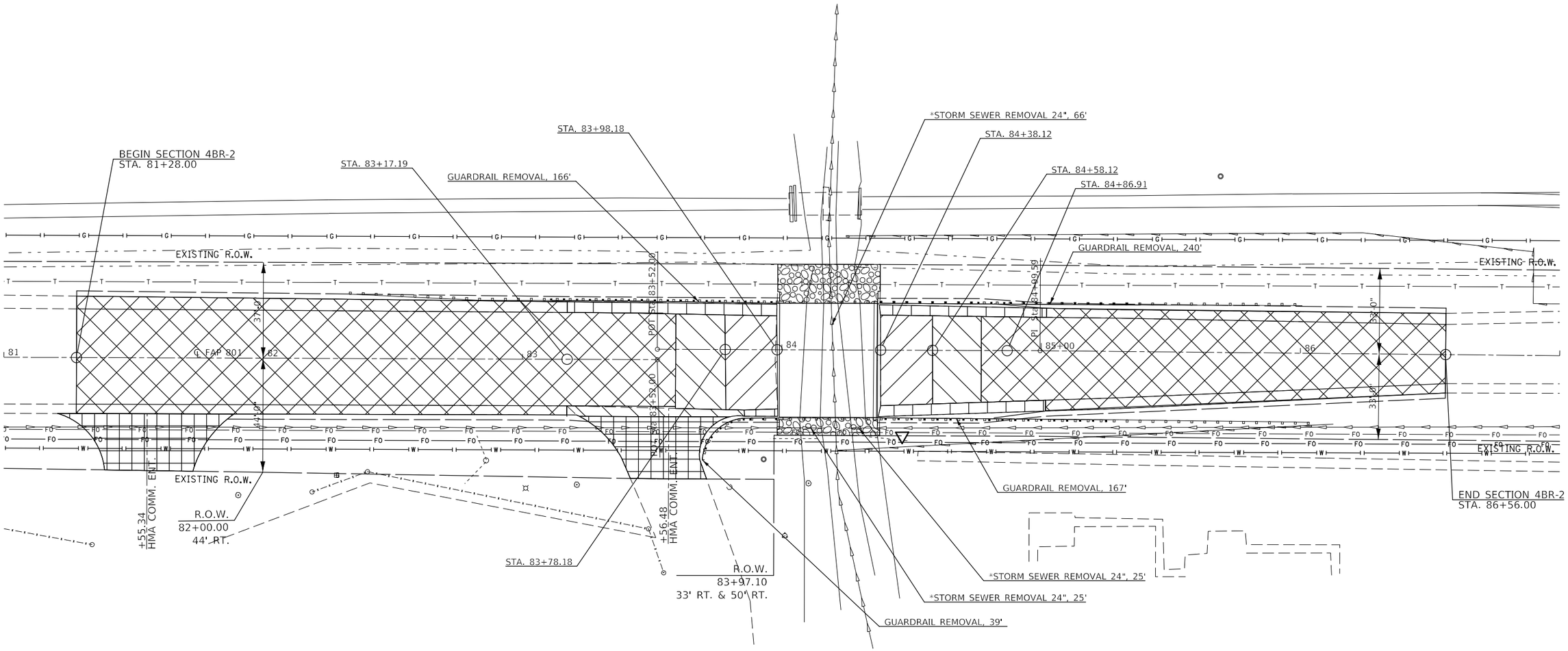
SHOULDER REMOVAL

HMA SURFACE REMOVAL 1.5"

PAVEMENT REMOVAL

REMOVAL OF EXISTING SUPERSTRUCTURES

N



*STORM SEWER REMOVAL USE TO BE DETERMINED BY THE ENGINEER

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	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILL 10 REMOVAL PLAN SHEET

SCALE: 1"=20' | SHEET 1 OF 1 SHEETS | STA. 81+00.00 TO STA. 87+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	14
		CONTRACT NO. 70602		
		ILLINOIS FED. AID PROJECT		

SEC. 09, T 19 N, R 8 E, 2ND PM

AGGREGATE WEDGE SHOULDER, TYPE B

HMA SHOULDERS, 6.5"

BK. E. APPROACH SLAB STA.83+69.09

BK. E. PAVEMENT CONNECTOR (RIGID) STA. 83+59.09

EXPLORATION TRENCH 52" DEPTH, 40 FT STA. 83+98.34 TO STA. 94+37.84

CHANNEL EXCAVATION 256 CU YD

STONE RIPRAP, CLASS A4 285 SQ YD

BACK E. ABUT. STA. 83+97.67

EX. SN 010-0247
STA. 84+18.00
ONE SPAN 17" PCC DECK BEAM ON PILE BENT ABUTMENTS,
40'-8" BACK-TO-BACK ABUTMENT
44'-0" OUT-TO-OUT DECK

BK. W. APPROACH SLAB STA. 84+66.91

INCIDENTAL HMA SURFACING

EXPLORATION TRENCH 52" DEPTH, 17 FT STA. 86+05.00, 33' LT TO 16' LT

N

EXISTING R.O.W.

2'-0"

37'-0"

4'-4"

18'-3"

18'-0"

41'-0"

3'-6"

4'-0"

26'-0"

2'-0"

81 82 ℄ FAP 801 83 84 85+00 86

PI Sta 83+52.00

PI Sta 84+09.24

*STORM SEWER CLASS A, TYPE 1 24", 66'-0"

HMA SHOULDERS, 6.5"

BK. W. PAVEMENT CONNECTOR (RIGID) STA. 84+76.91

AGGREGATE WEDGE SHOULDER, TYPE B

END SECTION 4BR-2 STA. 86+56.00

B3'-0"

16'-0"

14'-9"

33'-0"

+55.34 HMA COMM. ENT.

R.O.W. 82+00.00 44' RT.

BEGIN SECTION 4BR-2 STA. 81+28.00

+56.48 HMA COMM. ENT.

R.O.W. 83+97.10 33' RT. & 50' RT.

*STORM SEWER CLASS A, TYPE 1 24", 25'-0"

EXPLORATION TRENCH 52" DEPTH, 40 FT STA. 83+98.33 TO STA. 94+37.88

BACK W. ABUT. STA. 84+38.33

*STORM SEWER CLASS A, TYPE 1 24", 25'-0"

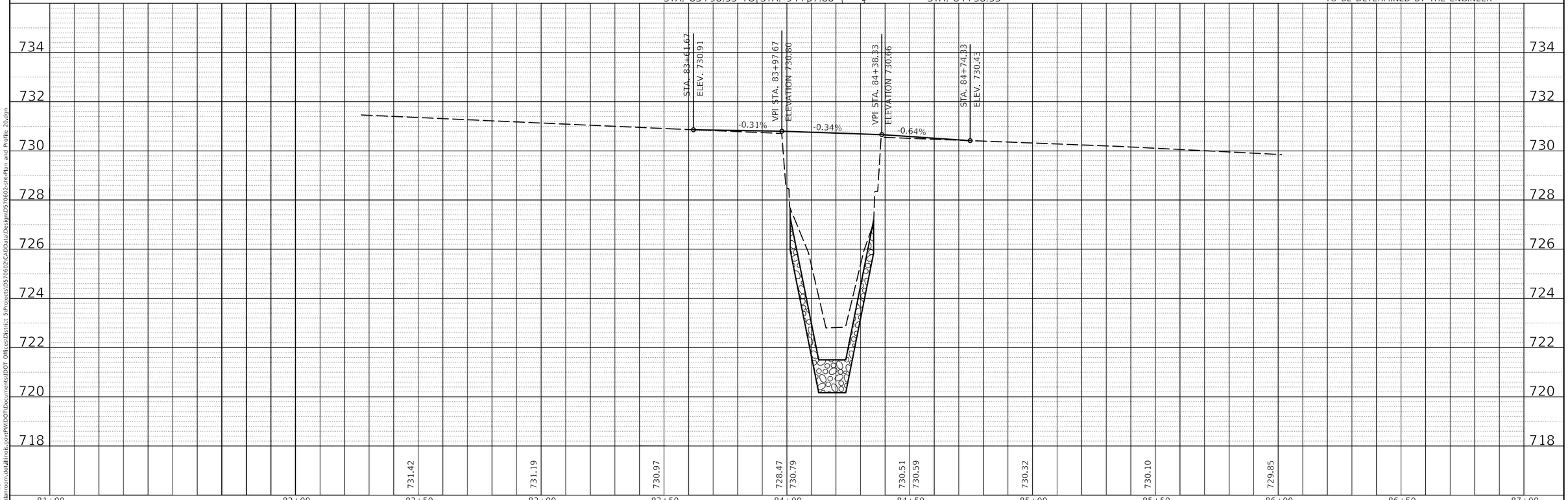
HMA SHOULDERS, 6.5"

EXCAVATION TO CONSTRUCT HMA SHOULDERS 6.5", CONCRETE SUPERSTRUCTURE (APPROACH SLAB), CONCRETE STRUCTURES, AND PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB SHALL BE INCIDENTAL IN THE COST OF THE ITEM.

*STORM SEWER, CLASS A, TYPE 1 24" USE TO BE DETERMINED BY THE ENGINEER

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CAUD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE



USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/6/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILL 10 PLAN SHEET

SCALE: 1' = 20' | SHEET 1 OF 1 SHEETS | STA. 81+00.00 TO STA. 87+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	15
		CONTRACT NO. 70602		
	ILLINOIS	FED. AID PROJECT		

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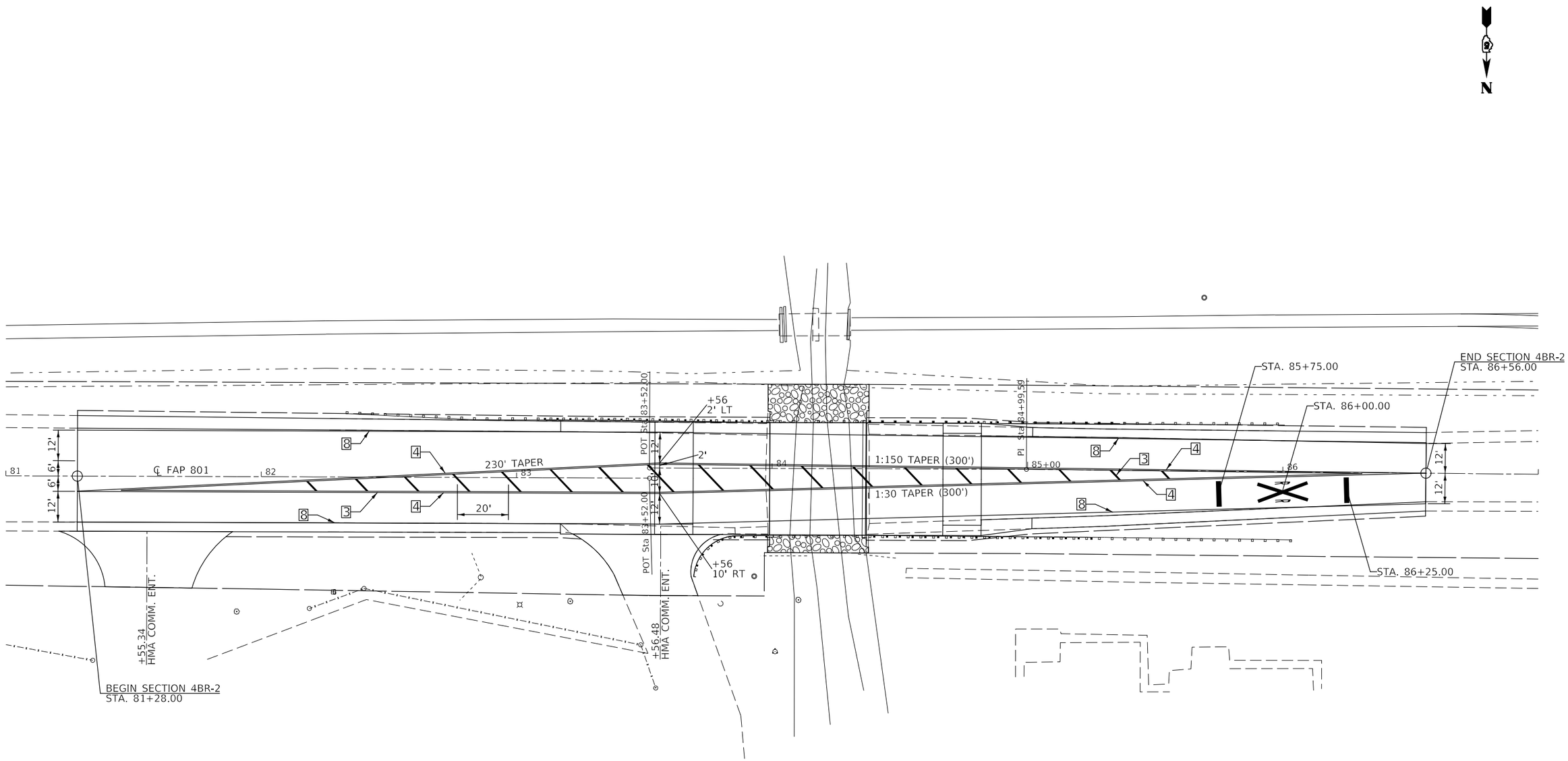
SEC. 09, T 19 N, R 8 E, 2ND PM



PAVEMENT MARKING LEGEND

- 3 — 12" (300) DIAGONAL (YELLOW)
- 4 — 4" (100) DOUBLE YELLOW (NARROW)
- 8 — 4" (100) SOLID (WHITE)
- TWO-WAY AMBER MARKER

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USER NAME = PiersonTJ	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILL 10 PAVEMENT STRIPING

SCALE: 1" = 20' | SHEET 1 OF 1 SHEETS | STA. 81+00.00 | TO STA. 87+00.00

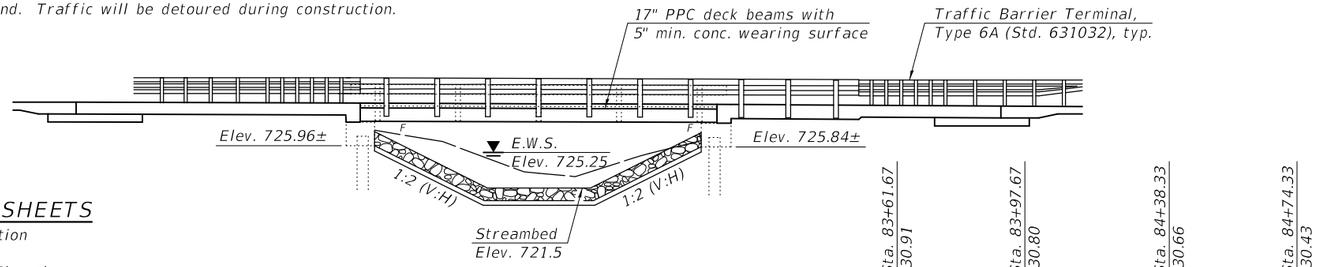
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	16
		CONTRACT NO. 70602		
	ILLINOIS	FED. AID PROJECT		

Benchmark: #4482-3 from the intersection of IL Rte. 10 and Duncan Rd., go West on IL Rte. 10 for 0.1 mile to the chiseled square on the top of the Northwest wingwall of Structure No. 010-0247. Elev. 730.12

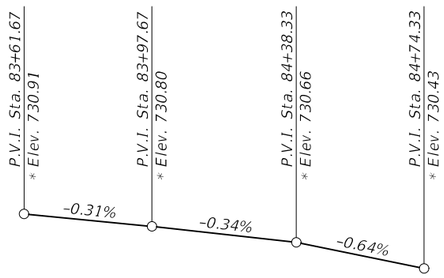
Existing Structure: Structure No. 010-0247, built in 1983 as F.A.U. Rte. 7123, Section 4BR at Sta. 84+20, resurfaced in 2003 as F.A.P. Rte. 801, Section 4RS-5, is a one span PPC deck beam superstructure supported by pile bent abutments. The clear bridge width is 44'-0". The abutment back-to-back length is 40'-8". The superstructure is to be replaced in-kind. Traffic will be detoured during construction.

No Salvage.

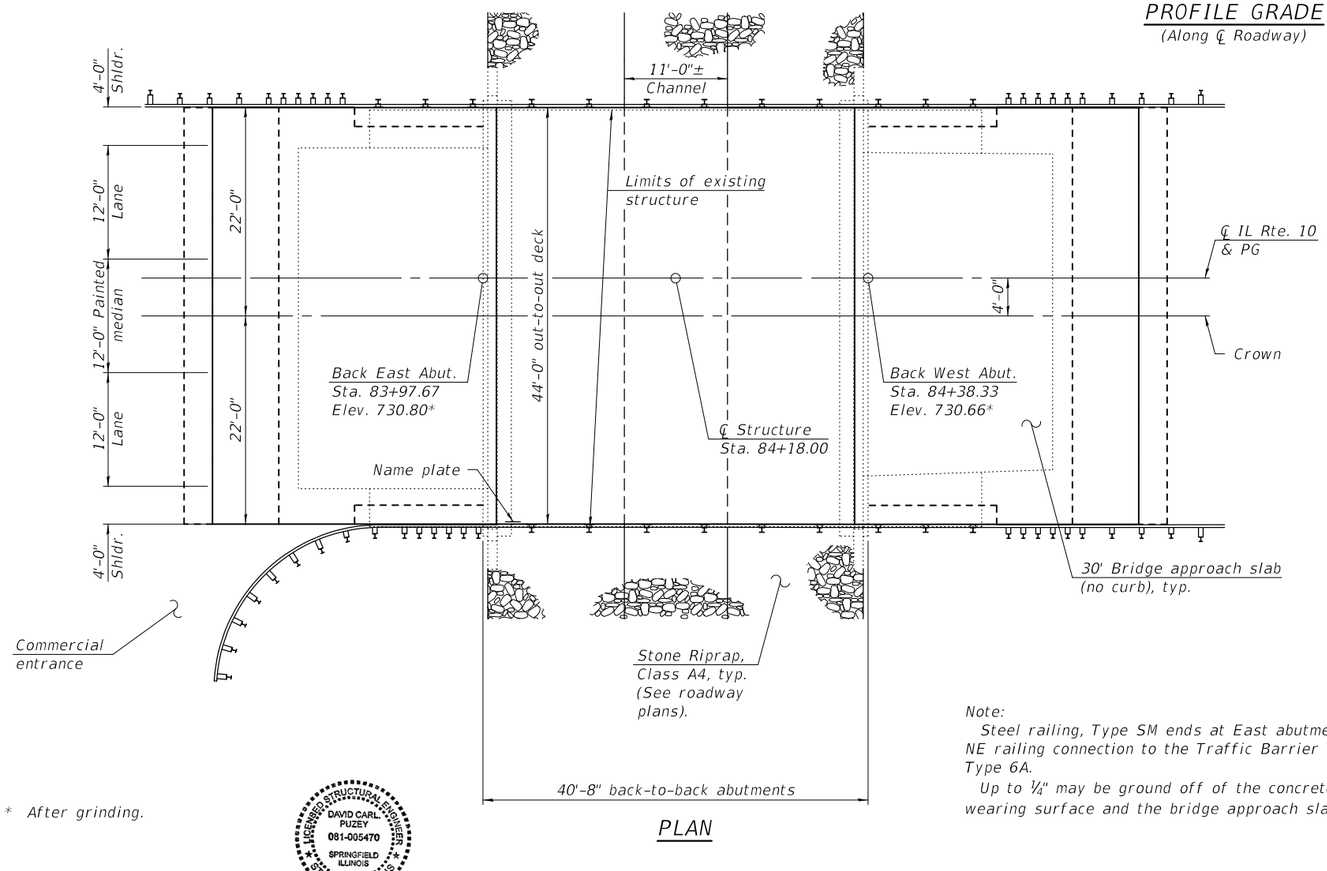
INDEX OF SHEETS



ELEVATION



PROFILE GRADE
(Along ℄ Roadway)



PLAN

* After grinding.

Note:
Steel railing, Type SM ends at East abutment for NE railing connection to the Traffic Barrier Terminal, Type 6A.
Up to ¼" may be ground off of the concrete wearing surface and the bridge approach slabs.

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

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 the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The Contractor is advised that the existing PPC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

Repair of the abutment caps shall be completed prior to placement of the new deck beams.

The minimum thickness of concrete wearing surface shall be 5" after grinding and varies as required to adjust for new profile grade and beam camber.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		4.8	4.8
Concrete Structures	Cu. Yd.		27.2	27.2
Protective Coat	Sq. Yd.	478		478
Concrete Superstructure (Approach Slab)	Cu. Yd.	129.7		129.7
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1,665		1,665
Reinforcement Bars, Epoxy Coated	Pound	52,830		52,830
Steel Railing, Type SM	Foot	121		121
Name Plates	Each	1		1
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.		53.5	53.5
Diamond Grinding (Bridge Section)	Sq. Yd.	435		435
Bridge Deck Grooving (Longitudinal)	Sq. Yd.	261		261
Concrete Wearing Surface, 5"	Sq. Yd.	185		185

STATION 84+18.00
RE-BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RTE. 801 - SEC. 4BR-2
LOADING HL-93
STRUCTURE NO. 010-0247

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.) E. Abut.	W. Abut.	Item
Q100	725.96	725.84	8
Q200	725.96	725.84	
Design	725.96	725.84	
Check	725.96	725.84	

NAME PLATE

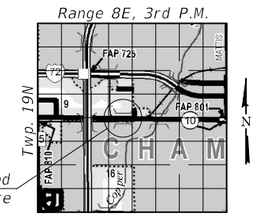
Existing name plate shall be cleaned and relocated next to new name plate. Cost included with Name Plates. See Std. 515001

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Category = A
Bedrock Acceleration Coefficient (A) = 0.048 g
Site Coefficient (S) = 1.5



LOCATION SKETCH

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES

FIELD UNITS
f'c = 5,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS
f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (½" Ø low lax strands)
fpbt = 201,960 psi (½" Ø low lax strands)

GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 10 OVER UNNAMED TRIBUTARY TO COPPER SLOUGH
F.A.P. ROUTE 801 - SEC. 4BR-2
CHAMPAIGN COUNTY
STATION 84+18.00
STRUCTURE NO. 010-0247

LICENSED STRUCTURAL ENGINEER
DAVID CARL PUZEY
081-005470
SPRINGFIELD ILLINOIS
STATE OF ILLINOIS

EXPIRES 11-30-2020

DESIGNED -	NEPHTALI RIVERA-MARTINEZ	EXAMINED	DATE - 8/6/2020
CHECKED -	D.S. / D.H.R. / R.P.N.		
DRAWN -	MICHAEL B. MOSSMAN	PASSED	REVISED -
CHECKED -	D.H.R. / R.P.N. / G.R.A.		REVISED -

ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET 1 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	17
		CONTRACT NO. 70602		
		ILLINOIS FED. AID PROJECT		

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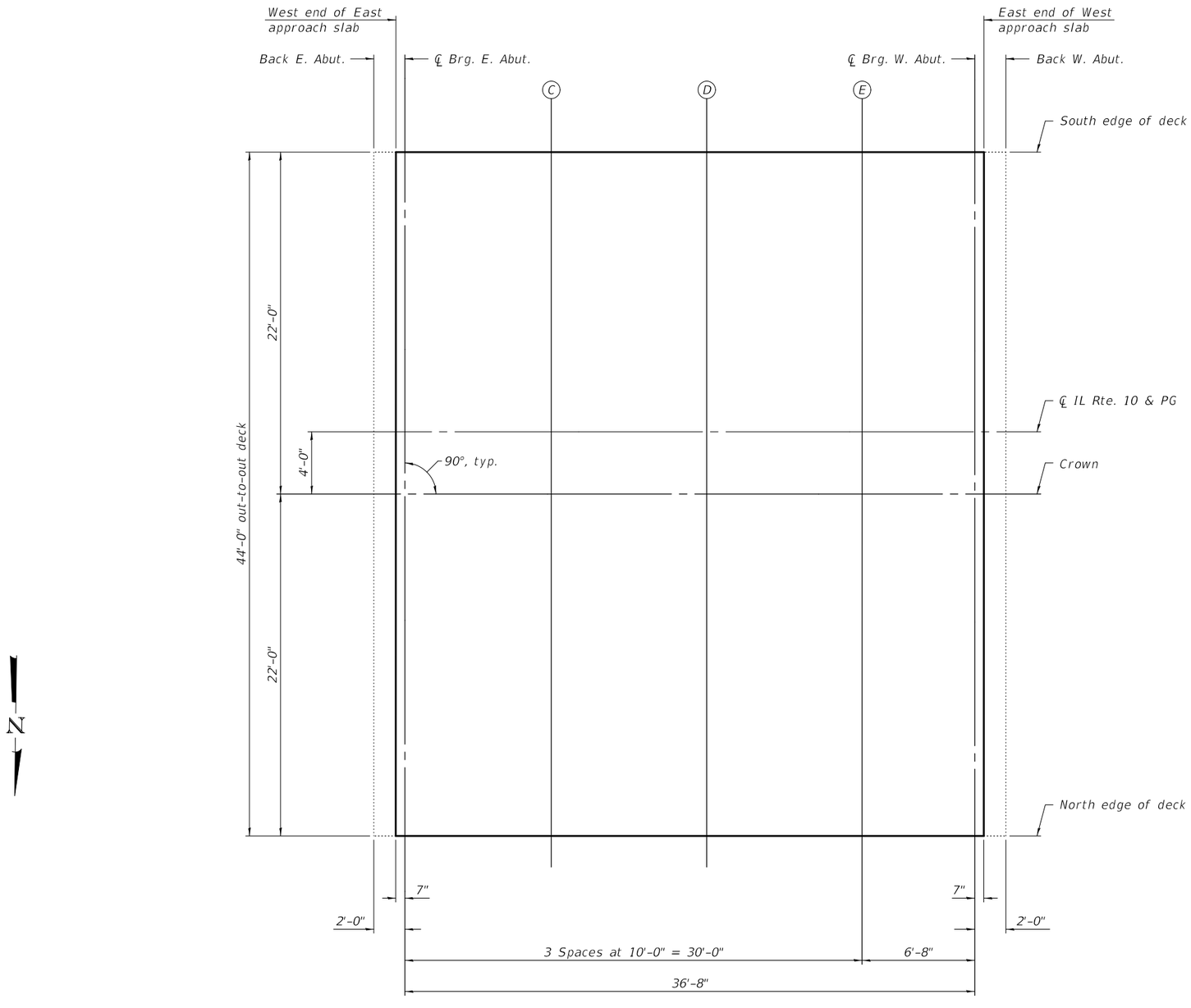

PLAN

DESIGNED - NEPHTALI RIVERA-MARTINEZ	EXAMINED	DATE -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**TOP OF SLAB ELEVATIONS STRUCTURE NO. 010 - 0247**	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - D.S. / D.H.R. / R.P.N.					801	4BR-2	CHAMPAIGN	44	18
DRAWN - MICHAEL B. MOSSMAN	PASSED	REVISED -					CONTRACT NO. 70602		
CHECKED - D.H.R. / R.P.N. / G.R.A.	ENGINEER OF BRIDGE DESIGN / ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET 2 OF 14 SHEETS			ILLINOIS FED. AID PROJECT		

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SOUTH EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
Bk. E. Abut.	83+97.67	-18.00	730.53	730.55
W. End E. Appr.	83+99.09	-18.00	730.53	730.55
℄ Brg. E. Abut.	83+99.67	-18.00	730.52	730.54
C	84+09.67	-18.00	730.49	730.51
D	84+19.67	-18.00	730.45	730.47
E	84+29.67	-18.00	730.42	730.44
℄ Brg. W. Abut.	84+36.33	-18.00	730.40	730.42
E. End W. Appr.	84+36.91	-18.00	730.39	730.41
Bk. W. Abut.	84+38.33	-18.00	730.39	730.41

℄ IL RTE. 10 & PG

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
Bk. E. Abut.	83+97.67	0.00	730.80	730.82
W. End E. Appr.	83+99.09	0.00	730.80	730.82
℄ Brg. E. Abut.	83+99.67	0.00	730.79	730.81
C	84+09.67	0.00	730.76	730.78
D	84+19.67	0.00	730.72	730.74
E	84+29.67	0.00	730.69	730.71
℄ Brg. W. Abut.	84+36.33	0.00	730.67	730.69
E. End W. Appr.	84+36.91	0.00	730.66	730.68
Bk. W. Abut.	84+38.33	0.00	730.66	730.68

CROWN

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
Bk. E. Abut.	83+97.67	4.00	730.86	730.88
W. End E. Appr.	83+99.09	4.00	730.86	730.88
℄ Brg. E. Abut.	83+99.67	4.00	730.85	730.87
C	84+09.67	4.00	730.82	730.84
D	84+19.67	4.00	730.78	730.80
E	84+29.67	4.00	730.75	730.77
℄ Brg. W. Abut.	84+36.33	4.00	730.73	730.75
E. End W. Appr.	84+36.91	4.00	730.72	730.74
Bk. W. Abut.	84+38.33	4.00	730.72	730.74

NORTH EDGE OF DECK

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Grinding
Bk. E. Abut.	83+97.67	26.00	730.53	730.55
W. End E. Appr.	83+99.09	26.00	730.53	730.55
℄ Brg. E. Abut.	83+99.67	26.00	730.52	730.54
C	84+09.67	26.00	730.49	730.51
D	84+19.67	26.00	730.45	730.47
E	84+29.67	26.00	730.42	730.44
℄ Brg. W. Abut.	84+36.33	26.00	730.40	730.42
E. End W. Appr.	84+36.91	26.00	730.39	730.41
Bk. W. Abut.	84+38.33	26.00	730.39	730.41

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DESIGNED -	NEPHTALI RIVERA-MARTINEZ	EXAMINED	DATE -
CHECKED -	D.S. / D.H.R. / R.P.N.		
DRAWN -	MICHAEL B. MOSSMAN	PASSED	REVISED -
CHECKED -	D.H.R. / R.P.N. / G.R.A.		REVISED -

ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS
STRUCTURE NO. 010 - 0247
SHEET 3 OF 14 SHEETS

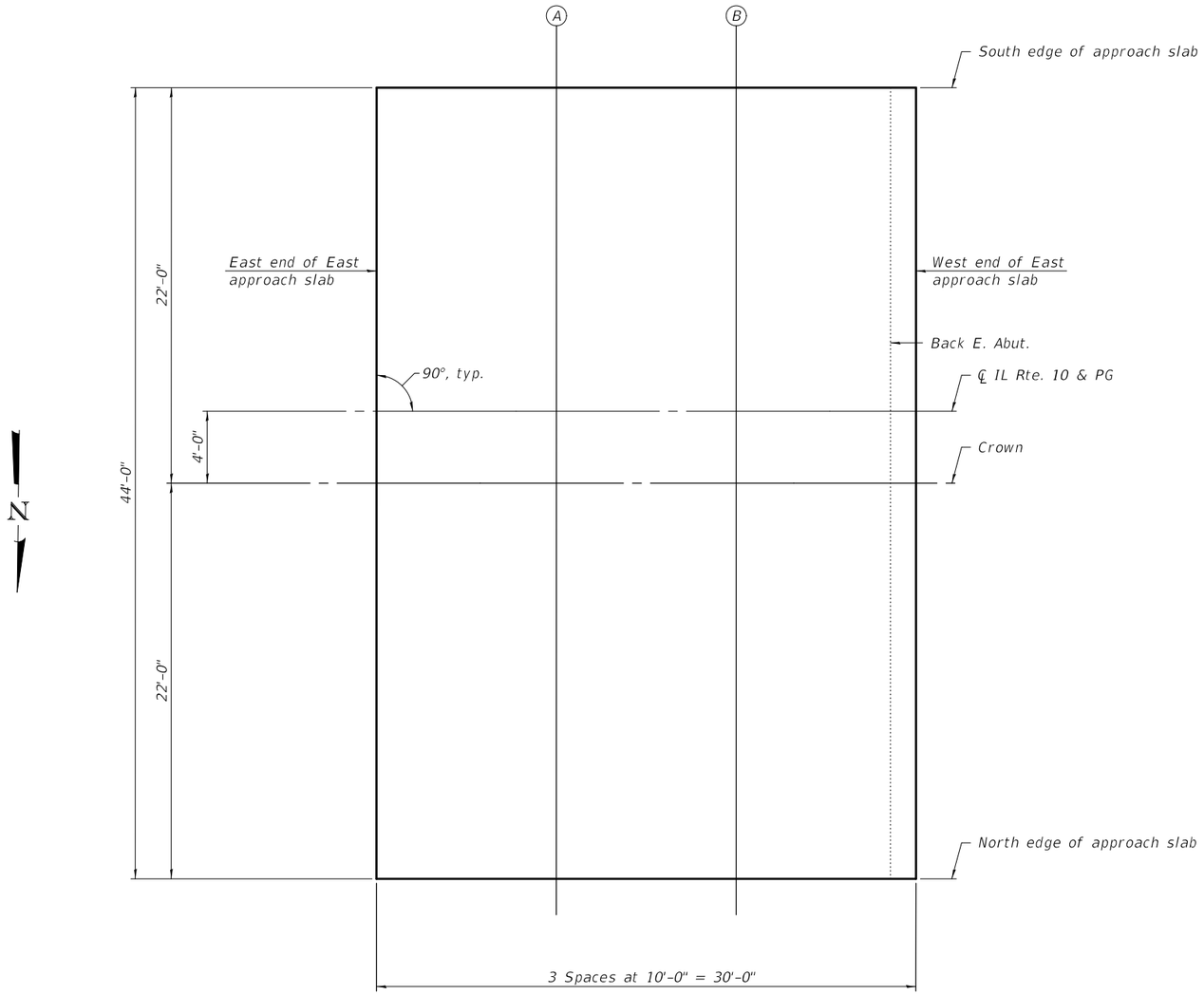
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	19
		CONTRACT NO. 70602		
		ILLINOIS FED. AID PROJECT		

SOUTH EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
E. End of E. Appr. Slab	83+69.09	-18.00	730.62	730.64
A	83+79.09	-18.00	730.59	730.61
B	83+89.09	-18.00	730.56	730.58
W. End of E. Appr. Slab	83+99.09	-18.00	730.53	730.55

℄ IL RTE. 10 & PG

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
E. End of E. Appr. Slab	83+69.09	0.00	730.89	730.91
A	83+79.09	0.00	730.86	730.88
B	83+89.09	0.00	730.83	730.85
W. End of E. Appr. Slab	83+99.09	0.00	730.80	730.82



PLAN

CROWN

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
E. End of E. Appr. Slab	83+69.09	4.00	730.95	730.97
A	83+79.09	4.00	730.92	730.94
B	83+89.09	4.00	730.89	730.91
W. End of E. Appr. Slab	83+99.09	4.00	730.86	730.88

NORTH EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
E. End of E. Appr. Slab	83+69.09	26.00	730.62	730.64
A	83+79.09	26.00	730.59	730.61
B	83+89.09	26.00	730.56	730.58
W. End of E. Appr. Slab	83+99.09	26.00	730.53	730.55

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CHECKED -	D.S. / D.H.R. / R.P.N.	PASSED	REVISED -
DRAWN -	MICHAEL B. MOSSMAN		REVISED -
CHECKED -	D.H.R. / R.P.N. / G.R.A.	ENGINEER OF BRIDGE DESIGN / ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 010 - 0247
SHEET 4 OF 14 SHEETS

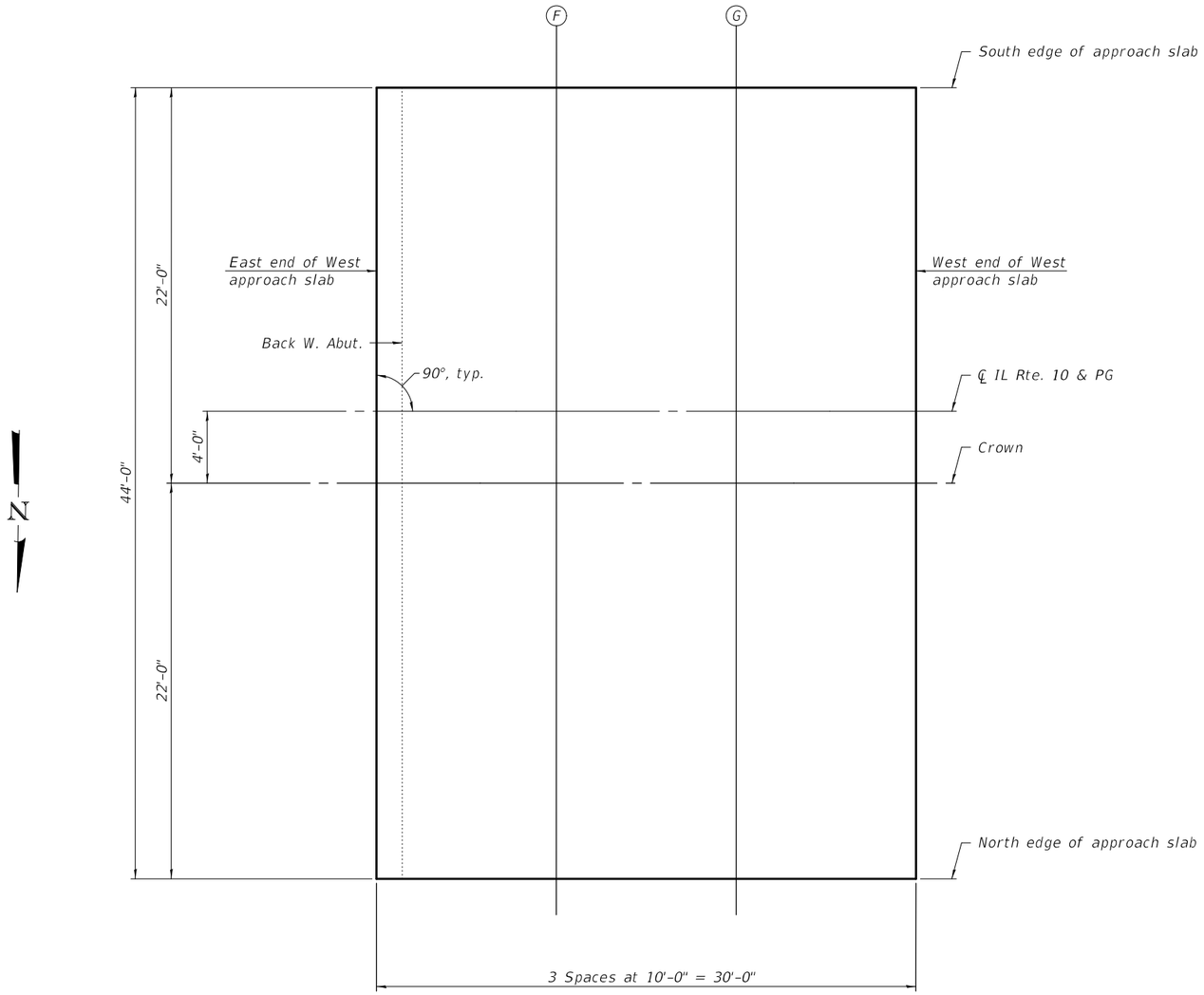
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	20
		CONTRACT NO. 70602		
		ILLINOIS FED. AID PROJECT		

SOUTH EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
E. End of W. Appr. Slab	84+36.91	-18.00	730.40	730.42
F	84+46.91	-18.00	730.34	730.36
G	84+56.91	-18.00	730.27	730.29
W. End of W. Appr. Slab	84+66.91	-18.00	730.21	730.23

℄ IL RTE. 10 & PG

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
E. End of W. Appr. Slab	84+36.91	0.00	730.67	730.69
F	84+46.91	0.00	730.61	730.63
G	84+56.91	0.00	730.54	730.56
W. End of W. Appr. Slab	84+66.91	0.00	730.48	730.50



PLAN

CROWN

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
E. End of W. Appr. Slab	84+36.91	4.00	730.73	730.75
F	84+46.91	4.00	730.67	730.69
G	84+56.91	4.00	730.60	730.62
W. End of W. Appr. Slab	84+66.91	4.00	730.54	730.56

NORTH EDGE OF APPROACH SLAB

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Grinding
E. End of W. Appr. Slab	84+36.91	26.00	730.40	730.42
F	84+46.91	26.00	730.34	730.36
G	84+56.91	26.00	730.27	730.29
W. End of W. Appr. Slab	84+66.91	26.00	730.21	730.23

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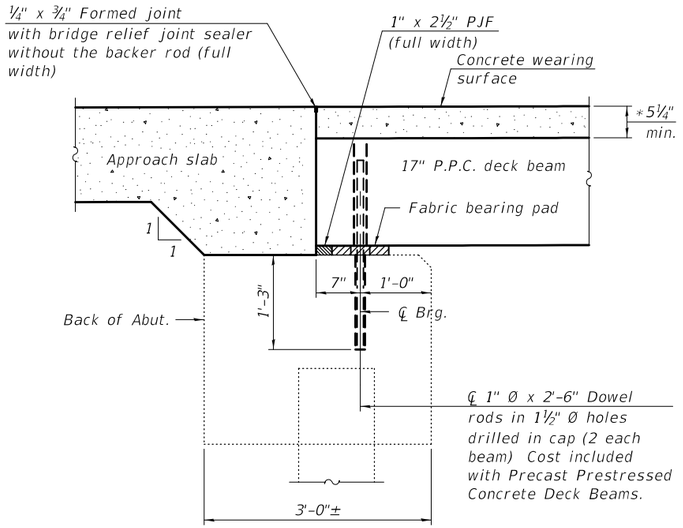
DESIGNED -	NEPHTALI RIVERA-MARTINEZ	EXAMINED	DATE -
CHECKED -	D.S. / D.H.R. / R.P.N.	PASSED	REVISED -
DRAWN -	MICHAEL B. MOSSMAN		REVISED -
CHECKED -	D.H.R. / R.P.N. / G.R.A.		

ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 010 - 0247
SHEET 5 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	21
		CONTRACT NO. 70602		
		ILLINOIS FED. AID PROJECT		



SECTION A-A

*Before grinding

Notes:

See sheet 7 of 14 for Superstructure Details and Bill of Material.

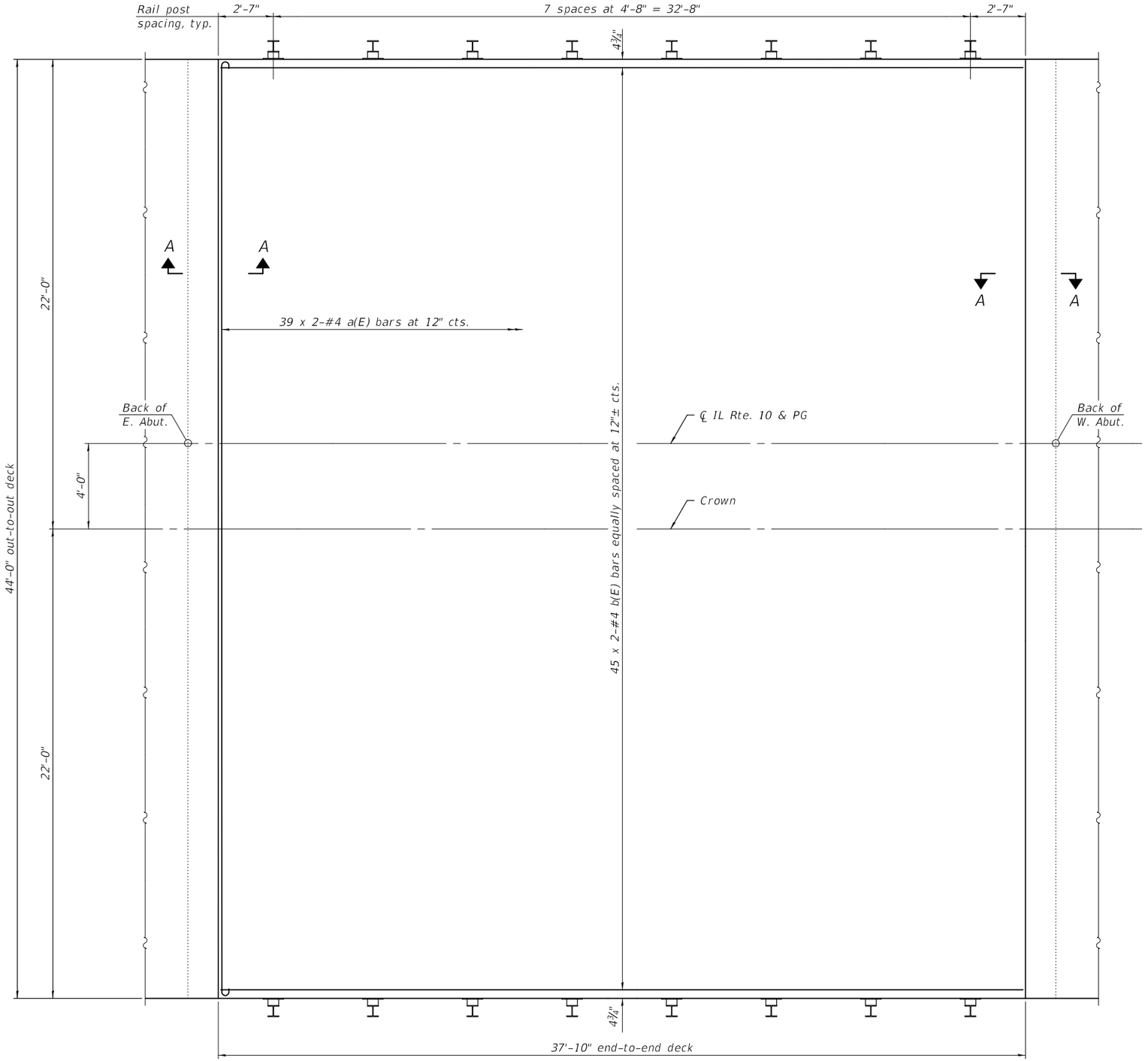
Bars indicated thus 45 x 2-#4 etc. indicates 45 lines of bars with 2 lengths per line.

All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.

See sheet 9 of 14 for fabric bearing pad details.

MINIMUM BAR LAP

#4 bar = 2'-2"



PLAN

N

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DESIGNED -	NEPHTALI RIVERA-MARTINEZ	
CHECKED -	D.S. / D.H.R. / R.P.N.	
DRAWN -	MICHAEL B. MOSSMAN	
CHECKED -	D.H.R. / R.P.N. / G.R.A.	

EXAMINED

PASSED

ENGINEER OF BRIDGE DESIGN

ENGINEER OF BRIDGES AND STRUCTURES

DATE -

REVISED -

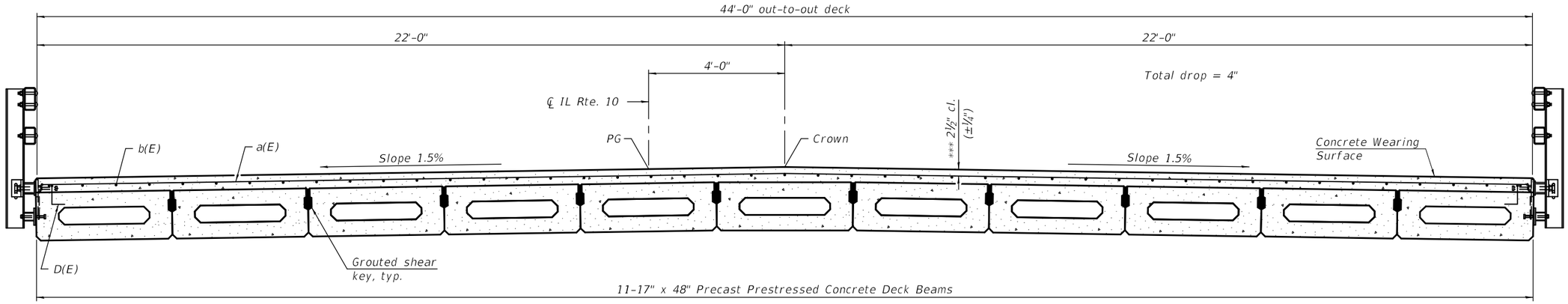
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 010 - 0247

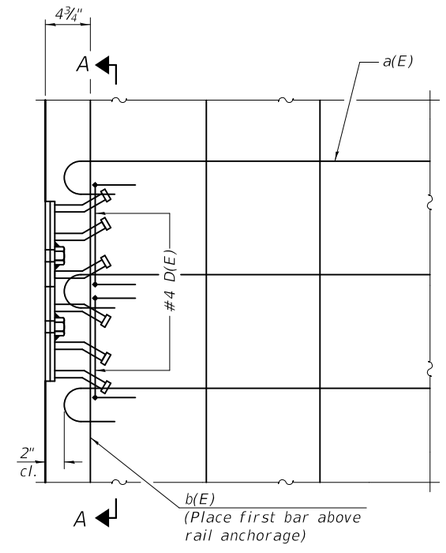
SHEET 6 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	22
		CONTRACT NO. 70602		
		ILLINOIS FED. AID PROJECT		



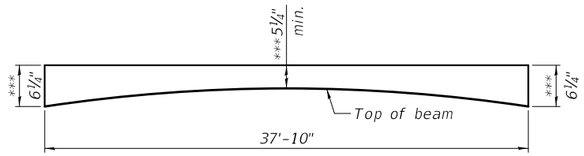
CROSS SECTION
(Looking west)

*** Prior to grinding.

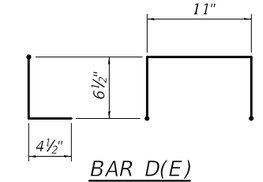


PLAN

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

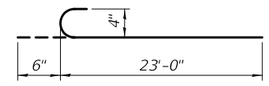


ANTICIPATED CONCRETE WEARING SURFACE PROFILE
(For information only)

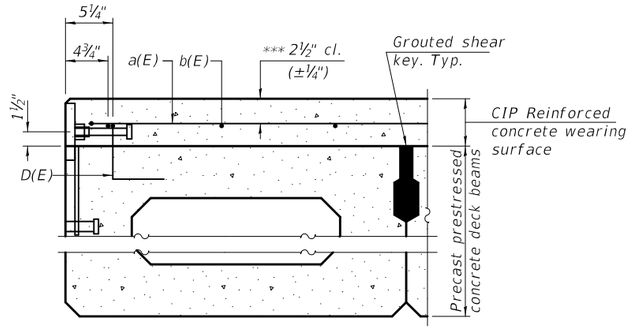


BAR D(E)

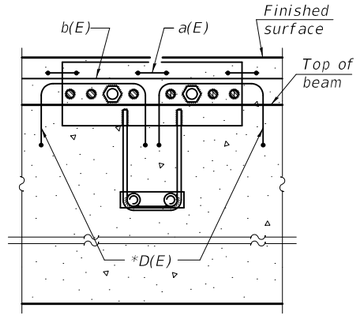
* Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.



BAR a(E)



SECTION THRU FASCIA BEAM



SECTION A-A

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	78	#4	23'-6"	
b(E)	90	#4	19'-11"	
Reinforcement Bars, Epoxy Coated			Pound	2,430
Concrete Wearing Surface, 5"			Sq. Yd.	185

DESIGNED	-	NEPHTALI RIVERA-MARTINEZ	
CHECKED	-	D.S. / D.H.R. / R.P.N.	
DRAWN	-	MICHAEL B. MOSSMAN	
CHECKED	-	D.H.R. / R.P.N. / G.R.A.	

EXAMINED — ENGINEER OF BRIDGE DESIGN
PASSED — ENGINEER OF BRIDGES AND STRUCTURES
DATE -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 010 - 0247
SHEET 7 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	23
		CONTRACT NO. 70602		
		ILLINOIS FED. AID PROJECT		

MODEL: 0100247-70602-007
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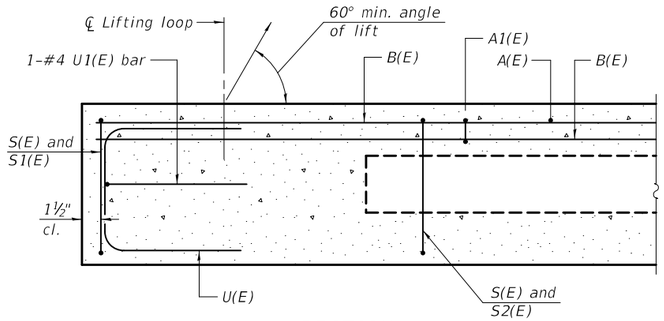
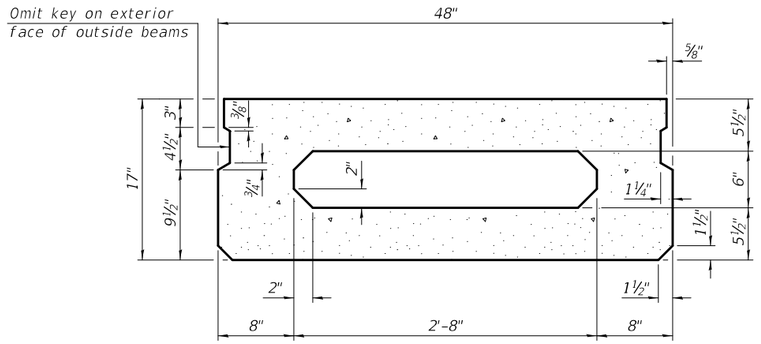
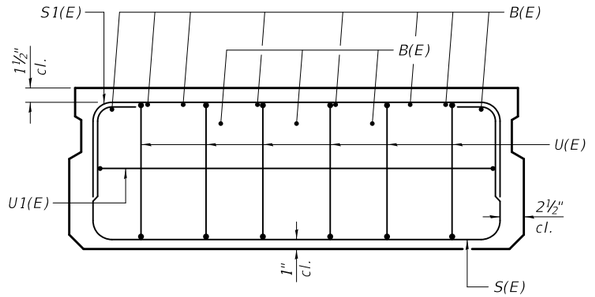


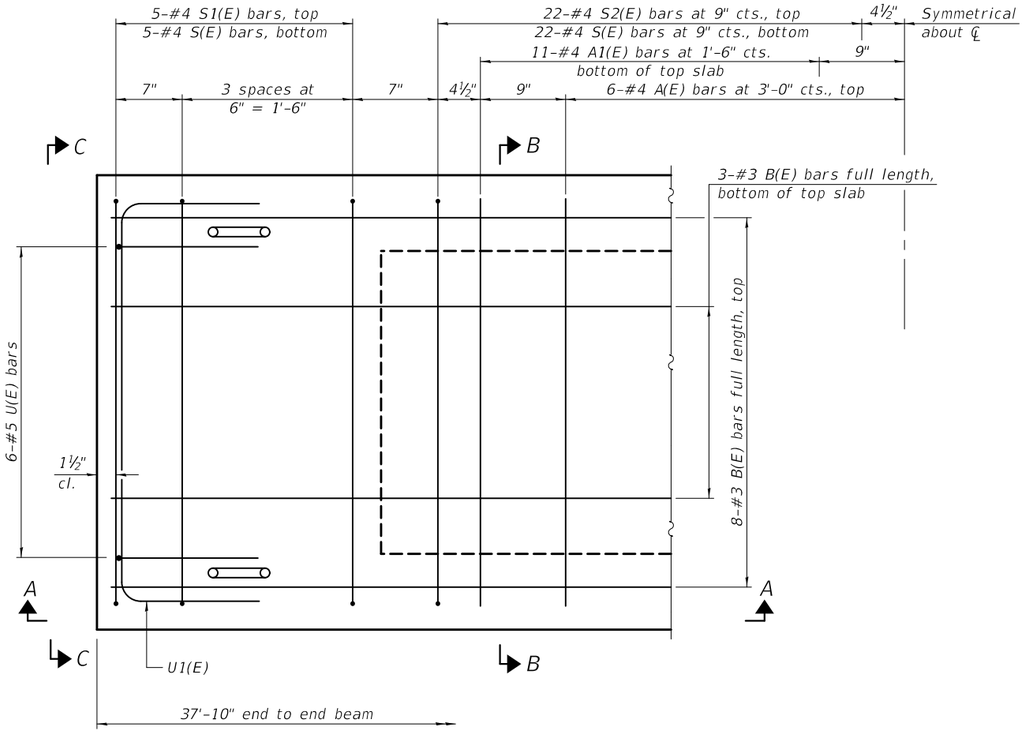
SECTION A-A



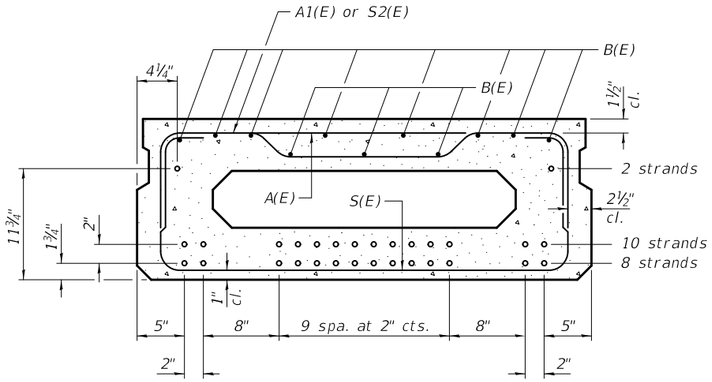
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



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'-6"

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)	11	#4	3'-7"	—
A1(E)	22	#4	3'-10"	⌒
B(E)	11	#3	37'-7	—
S(E)	54	#4	6'-9"	⊔
S1(E)	10	#4	5'-3"	⊓
S2(E)	44	#4	5'-6"	⊓
U(E)	12	#5	3'-8"	⊏
U1(E)	2	#4	6'-0"	⊓

Note:
See sheet 9 of 14 for additional details and Bill of Material.

PD-1748-0 1-1-2020

DESIGNED -	NEPHTALI RIVERA-MARTINEZ	EXAMINED	DATE -
CHECKED -	D.S. / D.H.R. / R.P.N.	PASSED	REVISED -
DRAWN -	MICHAEL B. MOSSMAN		REVISED -
CHECKED -	D.H.R. / R.P.N. / G.R.A.	ENGINEER OF BRIDGE DESIGN / ENGINEER OF BRIDGES AND STRUCTURES	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17" x 48" PPC DECK BEAM
STRUCTURE NO. 010 - 0247
SHEET 8 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	24
		CONTRACT NO. 70602		
		ILLINOIS FED. AID PROJECT		

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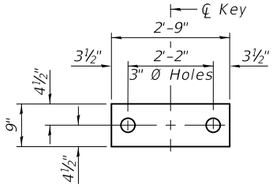
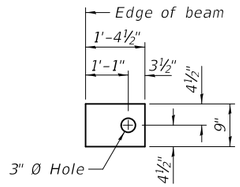


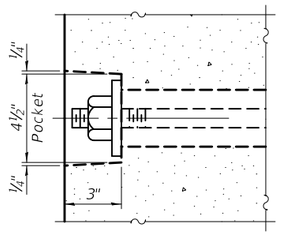
FABRIC BEARING PAD
(Interior)



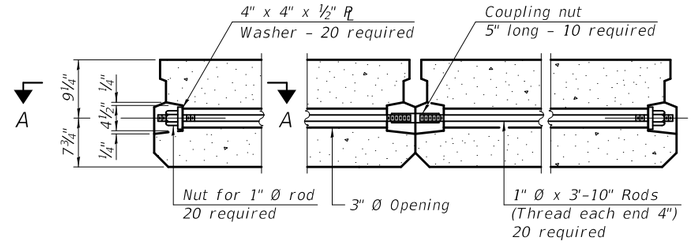
FABRIC BEARING PAD
(Exterior)

FIXED

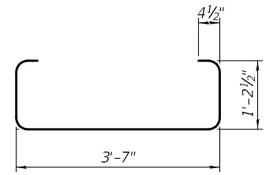
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pads shall be bonded to the substructure.



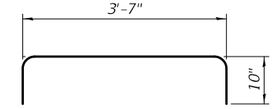
SECTION A-A



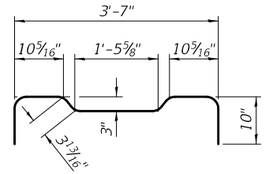
TYPICAL TRANSVERSE TIE ASSEMBLY



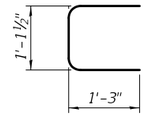
BAR S(E)



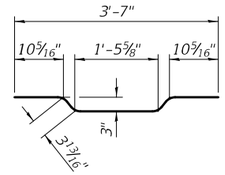
BAR S1(E)



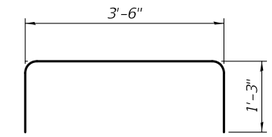
BAR S2(E)



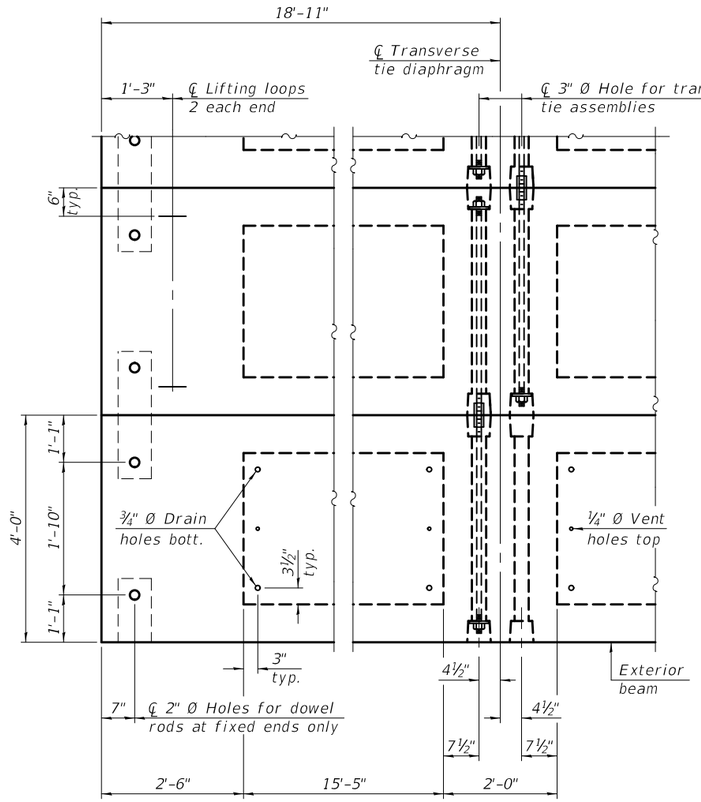
BAR U(E)



BAR A1(E)



BAR U1(E)



PLAN VIEW

Note:
Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" Ø 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.

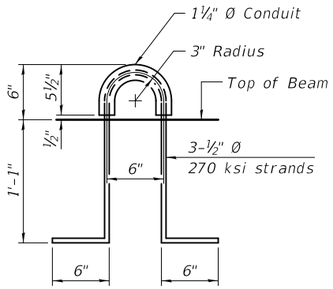
Two ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" Ø 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 Conc. Deck Bms. (17" depth)	Sq. Ft.	1,665

PDD-1748-0 1-1-2020

DESIGNED -	NEPHTALI RIVERA-MARTINEZ	
CHECKED -	D.S. / D.H.R. / R.P.N.	
DRAWN -	MICHAEL B. MOSSMAN	
CHECKED -	D.H.R. / R.P.N. / G.R.A.	

EXAMINED
ENGINEER OF BRIDGE DESIGN
PASSED
ENGINEER OF BRIDGES AND STRUCTURES
DATE -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

17" x 48" PPC DECK BEAM
STRUCTURE NO. 010 - 0247
SHEET 9 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	25
		CONTRACT NO. 70602		
		ILLINOIS FED. AID PROJECT		

MODEL: 0100247-70602-009
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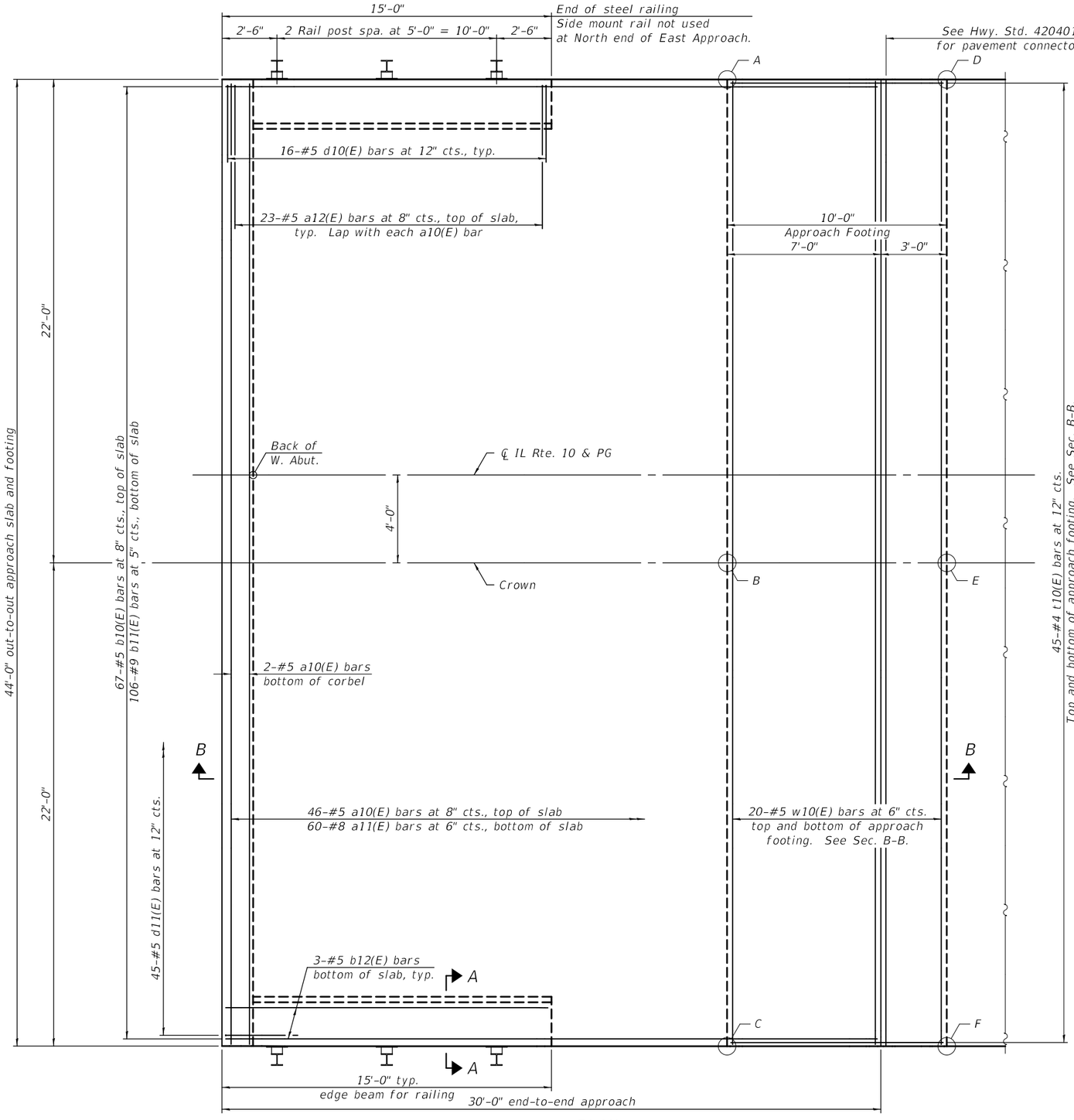
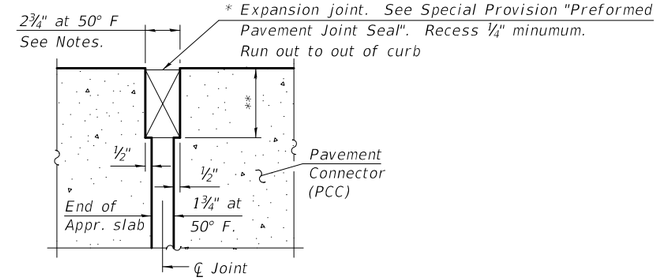
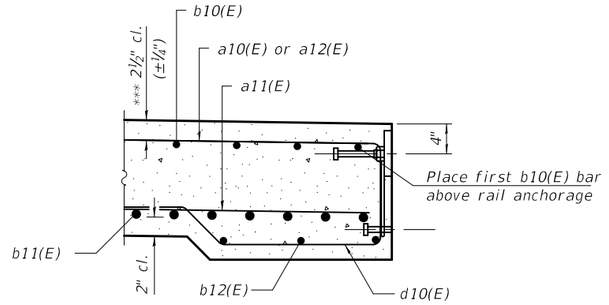


PLAN

(West approach shown, East approach slab similar by symmetry except as noted).



DETAIL A



SECTION A-A

* Cost included with Concrete Superstructure (Approach Slab).

** Per manufacturer recommendations

*** Prior to grinding.

N

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

	East Approach		West Approach	
Point	Top	Bottom	Top	Bottom
A	729.35	728.51	729.00	728.16
B	729.68	728.84	729.33	728.49
C	729.35	728.51	729.00	728.16
D	729.38	728.54	728.93	728.10
E	729.71	728.87	729.26	728.43
F	729.38	728.54	728.93	728.10

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DESIGNED	-	NEPHTALI RIVERA-MARTINEZ
CHECKED	-	D.S. / D.H.R. / R.P.N.
DRAWN	-	MICHAEL B. MOSSMAN
CHECKED	-	D.H.R. / R.P.N. / G.R.A.

EXAMINED — DATE -

PASSED

ENGINEER OF BRIDGE DESIGN

ENGINEER OF BRIDGES AND STRUCTURES

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 010 - 0247

SHEET 10 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	26
		CONTRACT NO. 70602		
		ILLINOIS	FED. AID PROJECT	

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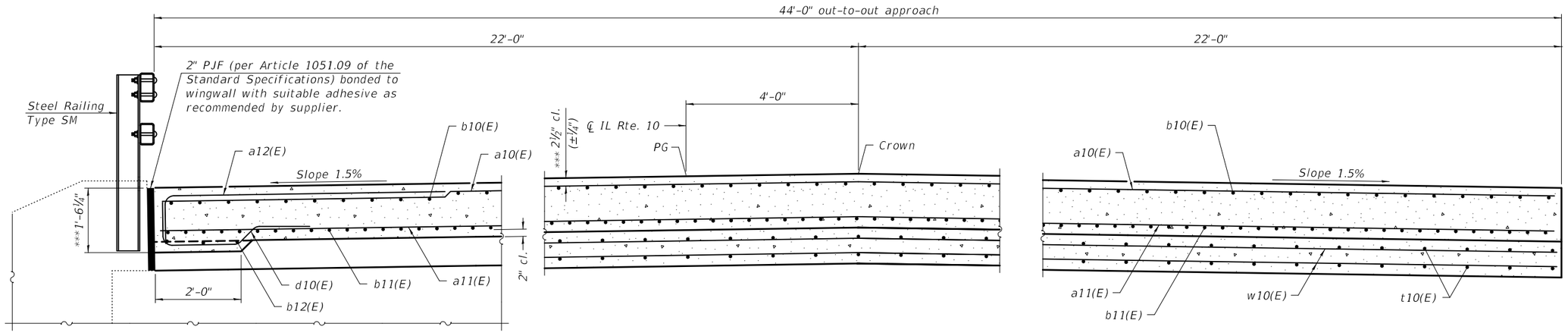
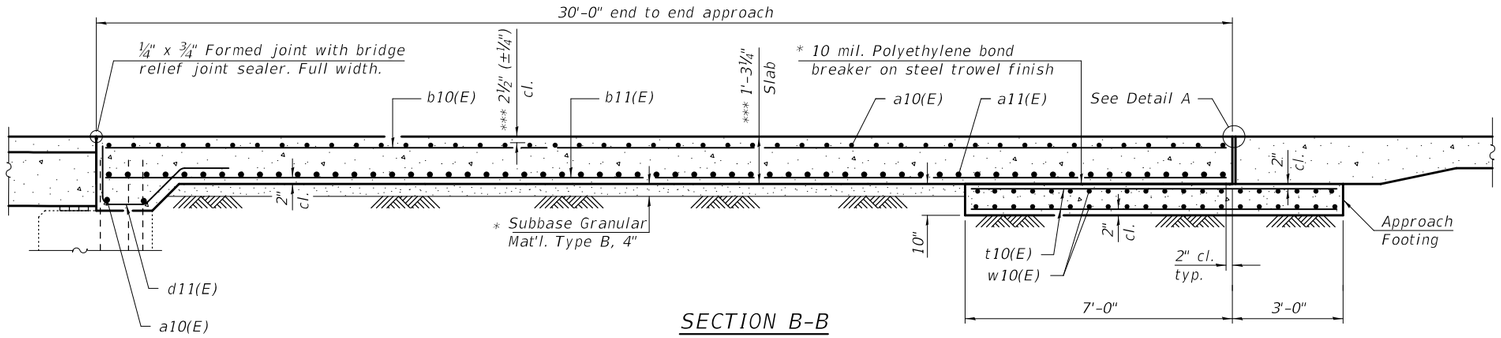


NEAR ABUTMENT

AT APPROACH FOOTING

CROSS SECTION

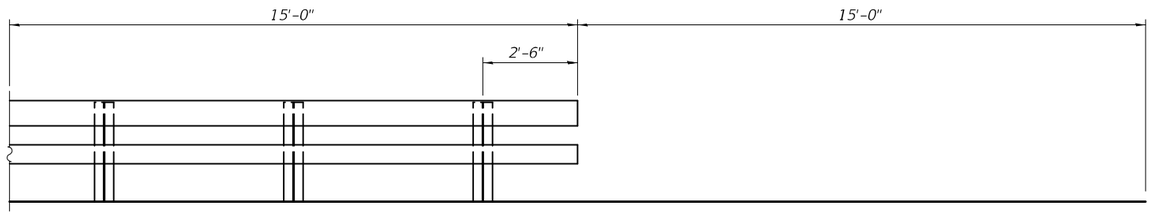
(Looking West)



SECTION B-B

* Cost included with Concrete Superstructure (Approach Slab).

*** Prior to grinding.



INSIDE ELEVATION OF RAILING

Notes:

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

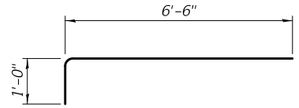
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

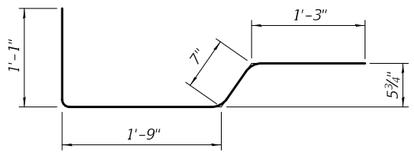
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

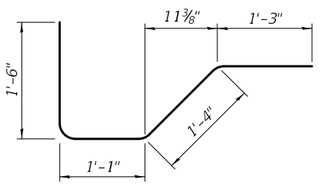
For railing details, see sheet 12 of 14.



BAR a12(E)



BAR d10(E)



BAR d11(E)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	96	#5	43'-8"	
a11(E)	120	#8	43'-8"	
a12(E)	92	#5	7'-6"	
b10(E)	134	#5	29'-8"	
b11(E)	212	#9	29'-8"	
b12(E)	12	#5	14'-8"	
d10(E)	64	#5	4'-8"	
d11(E)	90	#5	5'-2"	
t10(E)	180	#4	9'-8"	
w10(E)	80	#5	43'-8"	
Concrete Superstructure (Approach Slab)		Cu. Yd.	129.7	
Concrete Structures		Cu. Yd.	27.2	
Reinforcement Bars, Epoxy Coated		Pound	50,400	

(Sheet 2 of 2)

DESIGNED	NEPHTALI RIVERA-MARTINEZ	EXAMINED	DATE -
CHECKED	D.S. / D.H.R. / R.P.N.	PASSED	REVISED -
DRAWN	MICHAEL B. MOSSMAN		REVISED -
CHECKED	D.H.R. / R.P.N. / G.R.A.		

ENGINEER OF BRIDGE DESIGN

ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 010 - 0247

SHEET 11 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	27
		CONTRACT NO. 70602		
		ILLINOIS	FED. AID PROJECT	

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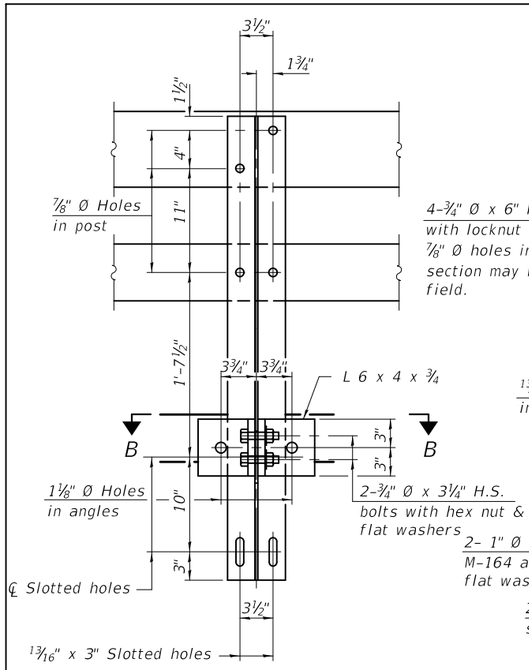
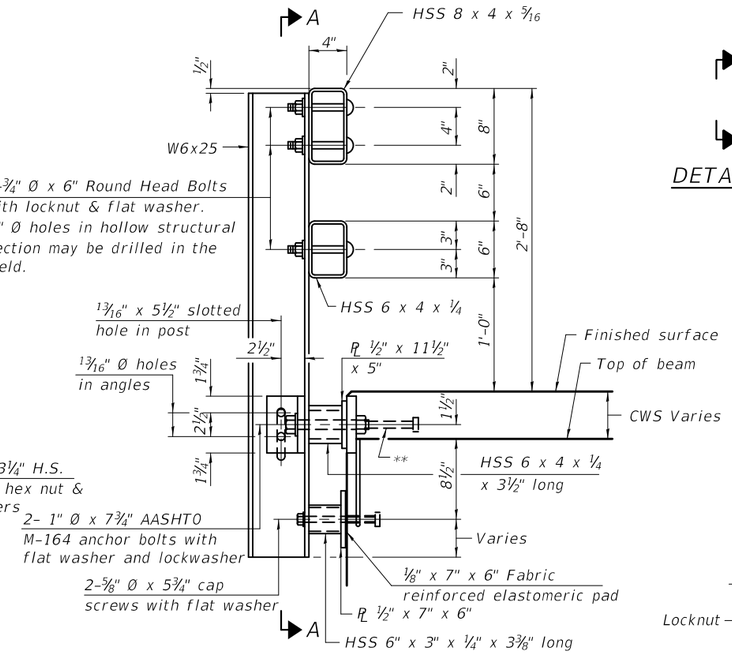
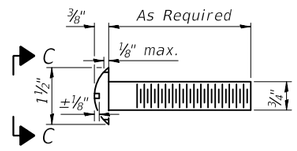


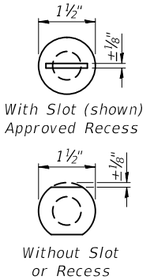
SECTION A-A



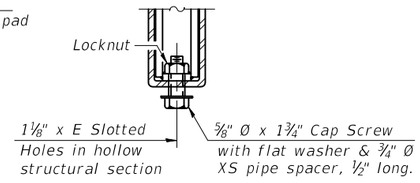
SECTION AT RAIL POST



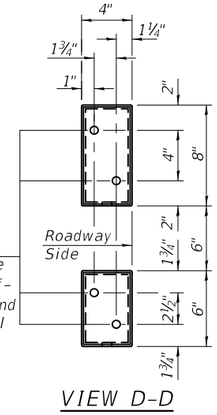
DETAIL OF ¾" Ø ROUND HEAD BOLT



VIEW C-C

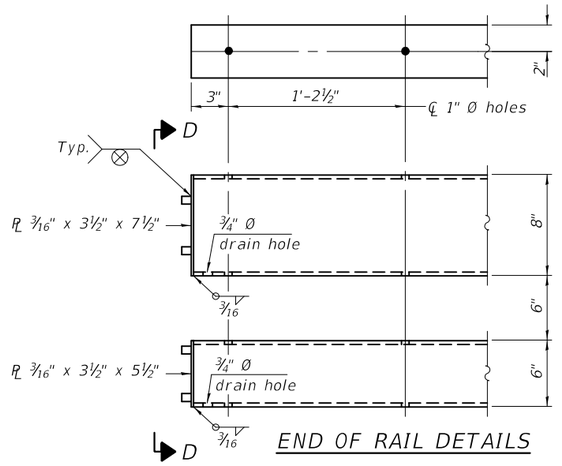


RAIL SPLICE CONNECTION AT EXPANSION JT.

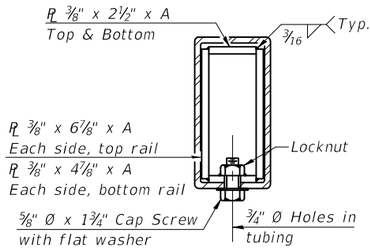


℄ -⅝" reduced base welded studs. Provide 4-⅝" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032 .

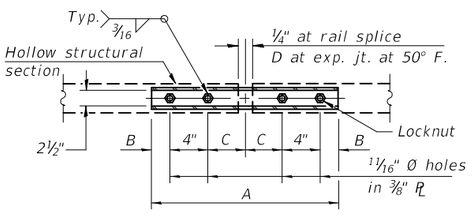
VIEW D-D



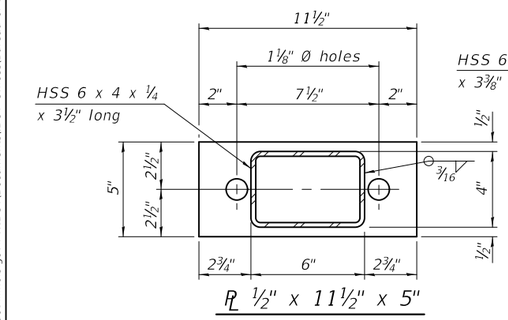
END OF RAIL DETAILS



SECTION AT RAIL SPLICE

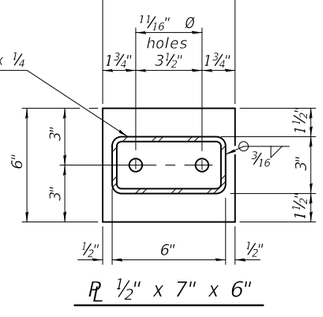


PLAN-BOTT. SPLICE PL TYPICAL

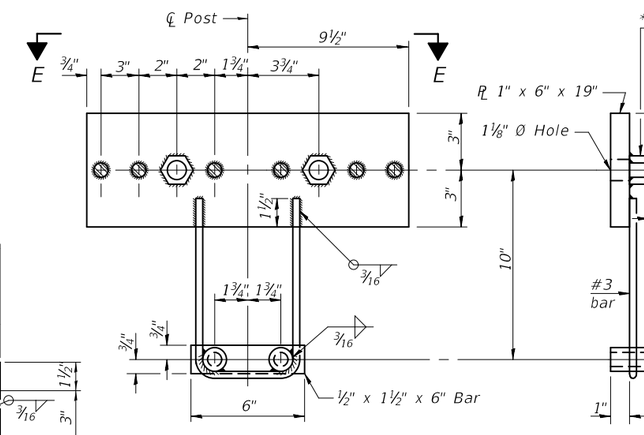


SECTION B-B

PL ½" x 11½" x 5"

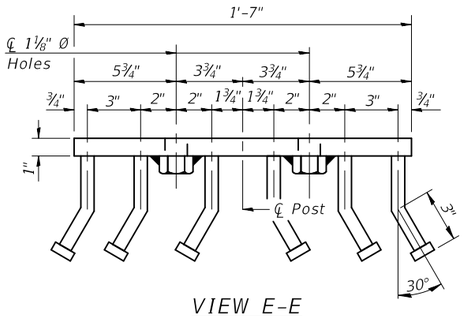


PL ½" x 7" x 6"



ANCHOR DEVICE

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.



VIEW E-E

SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2½"	1'-8"	2"	4"	2½"
> 4" ≤ 6½"	3¾"	2'-0"	2½"	5½"	3½"
> 6½" ≤ 9"	5"	2'-4"	3½"	6½"	9"
> 9" ≤ 13"	7"	2'-10"	4½"	8½"	11"
Rail Splice	¼"	1'-8"	2"	4"	———

T = Total movement at expansion joint as shown on the design plans.

Notes:

For multi-span bridges, sufficient ¼" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans.

Cost included with Steel Railing, Type SM.

Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	121

R-34CWS 2-17-2017 (6'-3" Maximum Post Spacing) (5" minimum to 7⅛" maximum CWS thickness)

DESIGNED -	NEPHTALI RIVERA-MARTINEZ	EXAMINED		DATE -	
CHECKED -	D.S. / D.H.R. / R.P.N.	PASSED	ENGINEER OF BRIDGE DESIGN	REVISED -	
DRAWN -	MICHAEL B. MOSSMAN		ENGINEER OF BRIDGES AND STRUCTURES	REVISED -	
CHECKED -	D.H.R. / R.P.N. / G.R.A.				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM WITH CONCRETE WEARING SURFACE
STRUCTURE NO. 010 - 0247

SHEET 12 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	28
		CONTRACT NO. 70602		
		ILLINOIS FED. AID PROJECT		

MODEL: 0100247-70602-012
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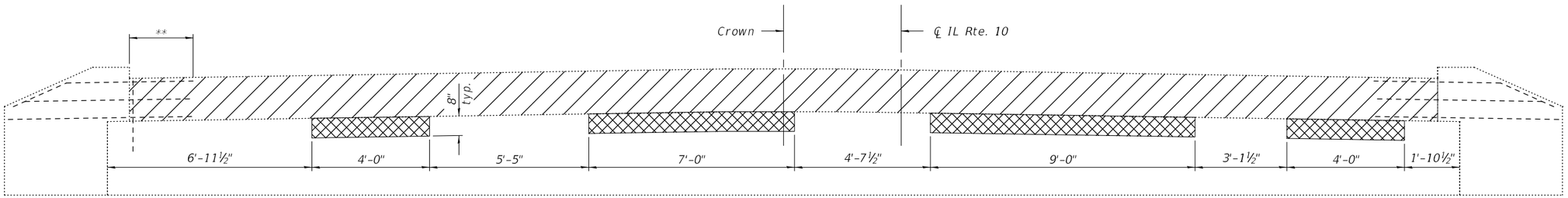
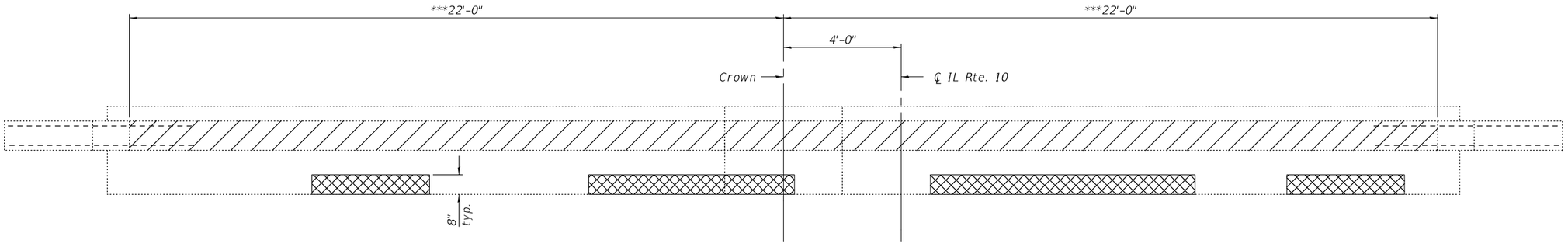
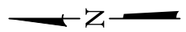
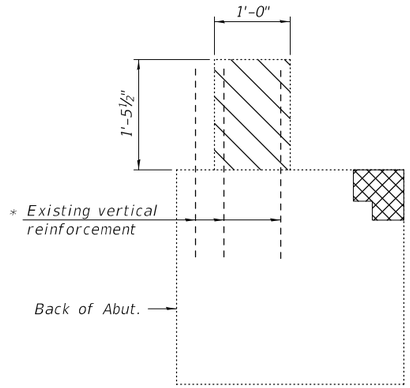


ELEVATION
(Looking East)







SECTION THRU ABUTMENT

PLAN

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

** *Cut, clean, straighten, and incorporate existing horizontal reinforcement into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be replaced with an approved bar splicer or anchorage system. Cost shall be included in Concrete Removal.*

*** *Concrete Removal dimensions shall be determined in the field. The removal limits should be adjusted to account for beam overrun and PJF installation as required for placement of the new superstructure.*

Notes:
Hatched areas indicate areas of Concrete Removal.
Cross-hatched areas indicate areas of Structural Repair of Concrete (Depth Equal to or Less than 5 Inches).

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	2.4
Structural Repair Of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	22.0

DESIGNED -	NEPHTALI RIVERA-MARTINEZ	
CHECKED -	D.S. / D.H.R. / R.P.N.	
DRAWN -	MICHAEL B. MOSSMAN	
CHECKED -	D.H.R. / R.P.N. / G.R.A.	

EXAMINED — ENGINEER OF BRIDGE DESIGN — DATE -
PASSED — ENGINEER OF BRIDGES AND STRUCTURES — REVISED - — REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT REMOVAL & REPAIRS
STRUCTURE NO. 010 - 0247
SHEET 13 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	29
		CONTRACT NO. 70602		
	ILLINOIS	FED. AID PROJECT		

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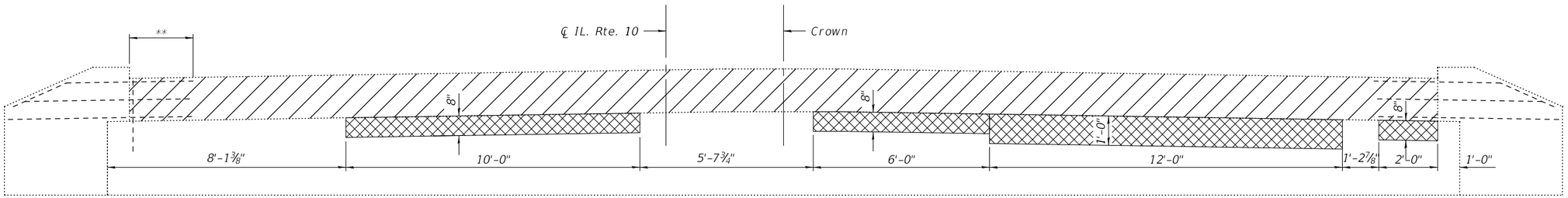
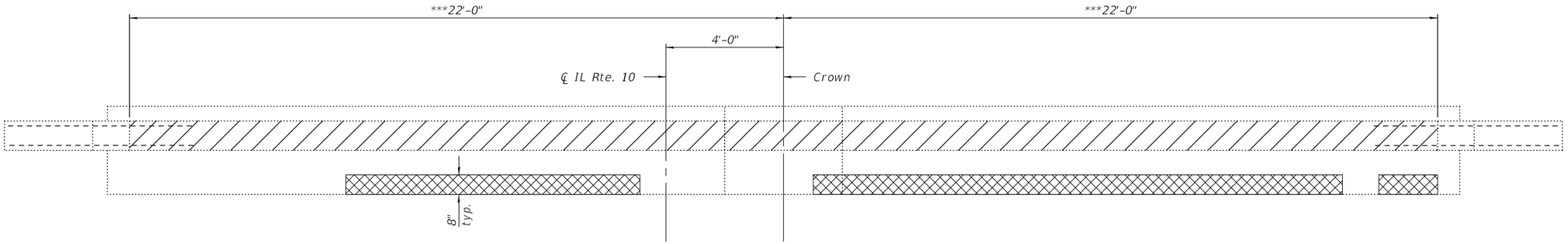


ELEVATION
(Looking West)



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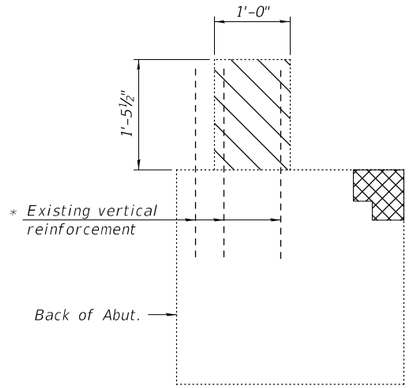

SECTION THRU ABUTMENT

PLAN

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

** *Cut, clean, straighten, and incorporate existing horizontal reinforcement into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be replaced with an approved bar splicer or anchorage system. Cost shall be included in Concrete Removal.*

*** *Concrete Removal dimensions shall be determined in the field. The removal limits should be adjusted to account for beam overrun and PJF installation as required for placement of the new superstructure.*

Notes:
Hatched areas indicate areas of Concrete Removal.
Cross-hatched areas indicate areas of Structural Repair of Concrete (Depth Equal to or Less than 5 Inches).

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	2.4
Structural Repair Of Concrete (Depth Equal to or Less than 5 Inches)	Sq. Ft.	31.5

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8/10/2020 9:13:19 AM

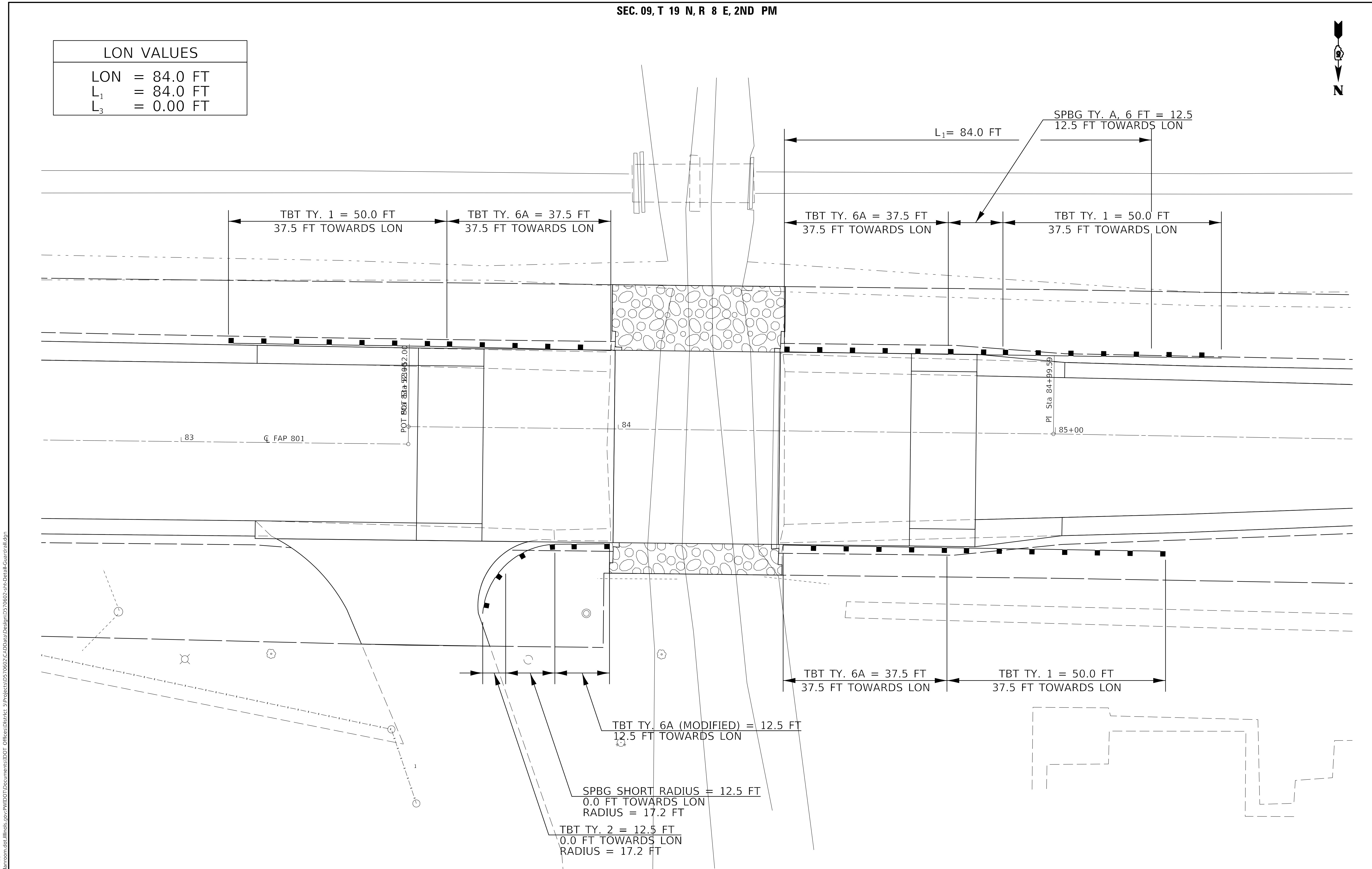
DESIGNED	-	NEPHTALI RIVERA-MARTINEZ
CHECKED	-	D.S. / D.H.R. / R.P.N.
DRAWN	-	MICHAEL B. MOSSMAN
CHECKED	-	D.H.R. / R.P.N. / G.R.A.

EXAMINED — ENGINEER OF BRIDGE DESIGN
PASSED — ENGINEER OF BRIDGES AND STRUCTURES
DATE -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT REMOVAL & REPAIRS
STRUCTURE NO. 010 - 0247
SHEET 14 OF 14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	30
		CONTRACT NO. 70602		
	ILLINOIS	FED. AID PROJECT		



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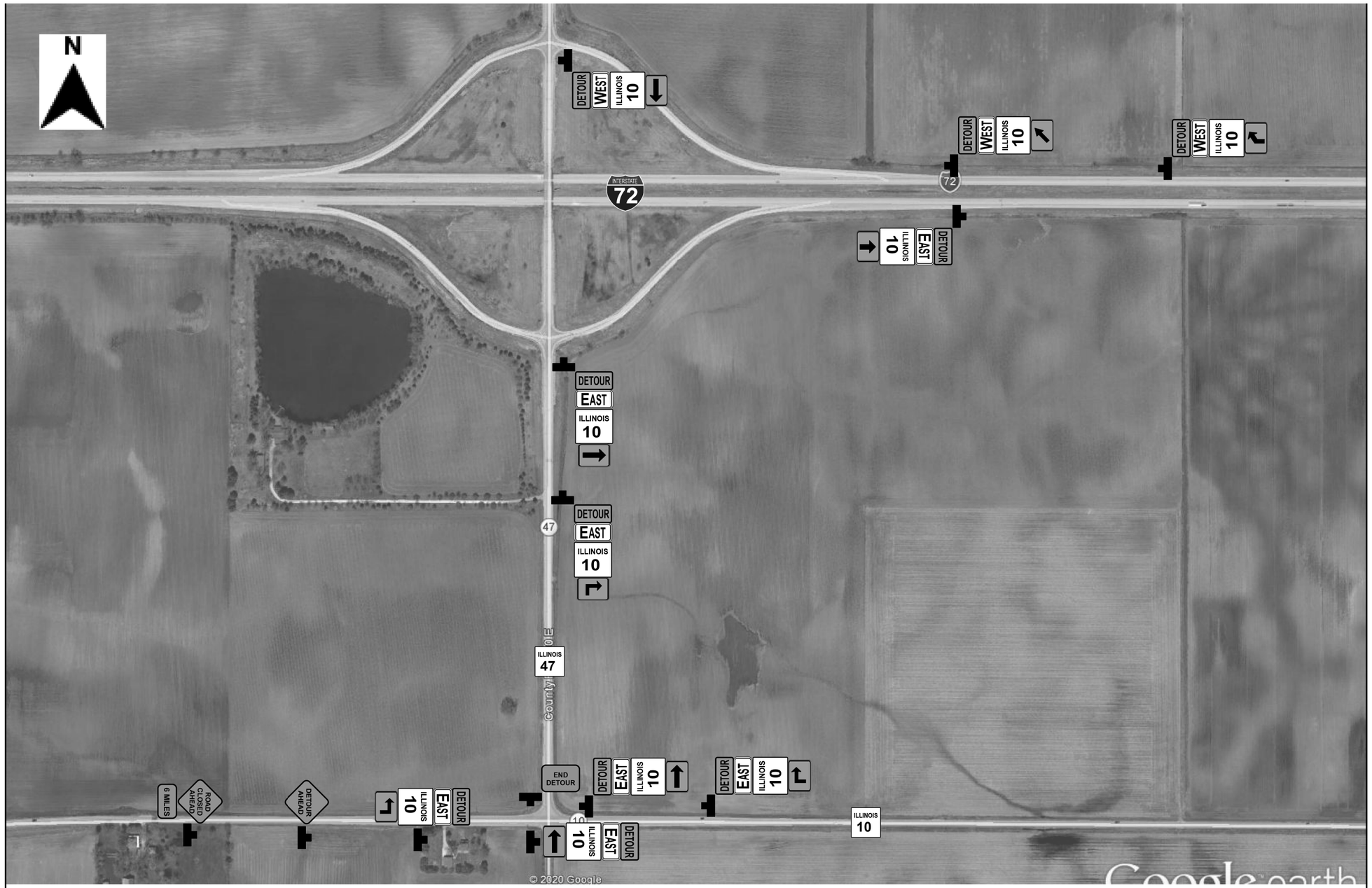
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	31
		CONTRACT NO. 70602		
		ILLINOIS FED. AID PROJECT		



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PLOT DATE = 6/22/2020	DATE -	REVISED -	

ILL 10
DETOUR DETAIL

SCALE: N.T.S. | SHEET 1 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	32
		CONTRACT NO. 70602		
	ILLINOIS	FED. AID PROJECT		

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PLOT DATE = 6/22/2020	DATE -	REVISED -	

ILL 10
DETOUR DETAIL

SCALE: N.T.S. | SHEET 2 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	33
		CONTRACT NO. 70602		
	ILLINOIS FED. AID PROJECT			

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PLOT DATE = 6/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILL 10
DETOUR DETAIL

SCALE: N.T.S. | SHEET 3 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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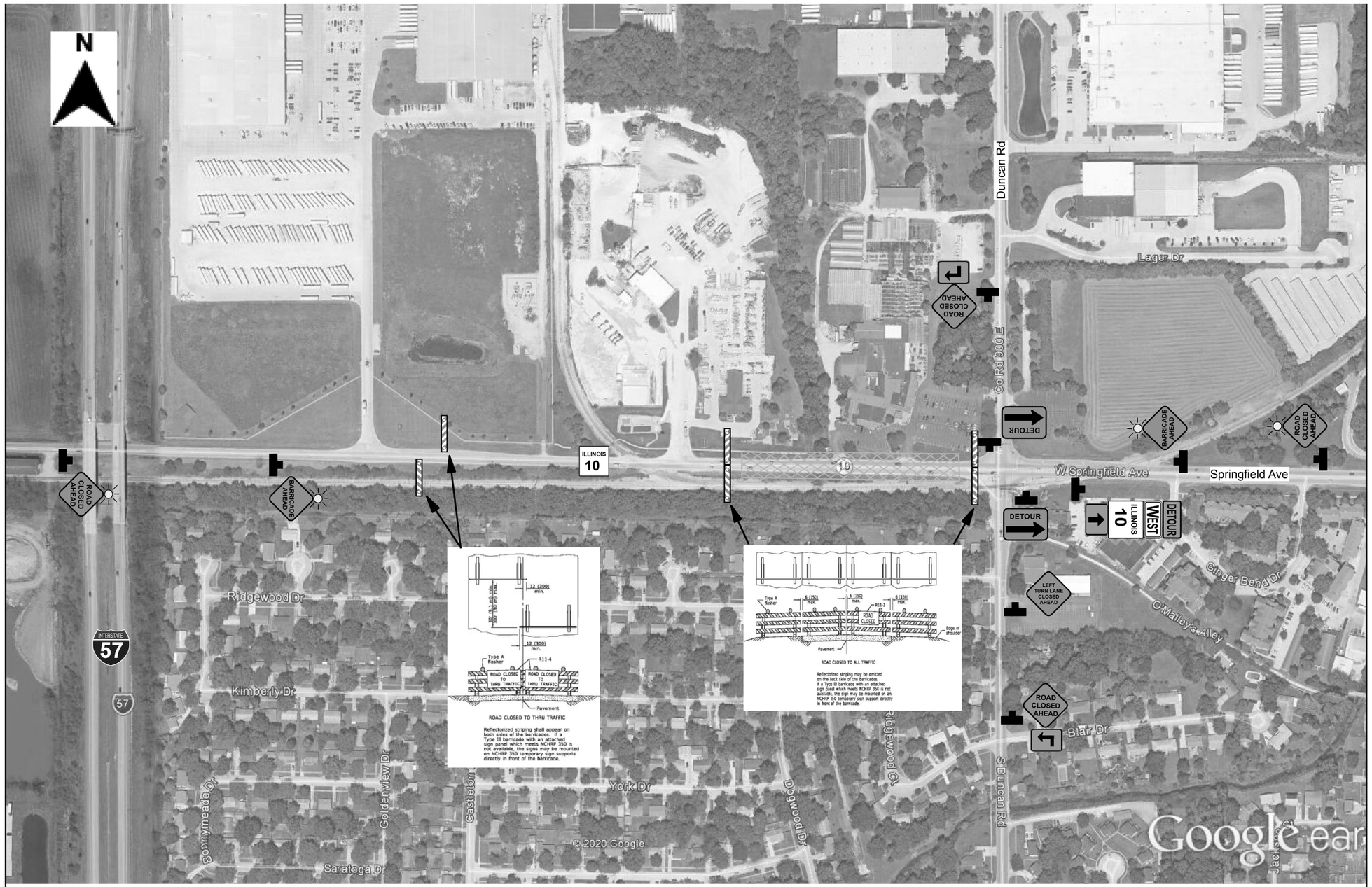
		CONTRACT NO. 70602		
	ILLINOIS	FED. AID PROJECT		



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PLOT DATE = 6/22/2020	DATE -	REVISED -	

ILL 10
DETOUR DETAIL

SCALE: N.T.S. | SHEET 4 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	35
		CONTRACT NO. 70602		
	ILLINOIS	FED. AID PROJECT		

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PLOT DATE = 6/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILL 10
DETOUR DETAIL

SCALE: N.T.S. | SHEET 5 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	36
		CONTRACT NO. 70602		
	ILLINOIS	FED. AID PROJECT		

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	DRAWN -	REVISED -			CONTRACT NO. 70602
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PLOT DATE = 6/22/2020	DATE -	REVISED -			

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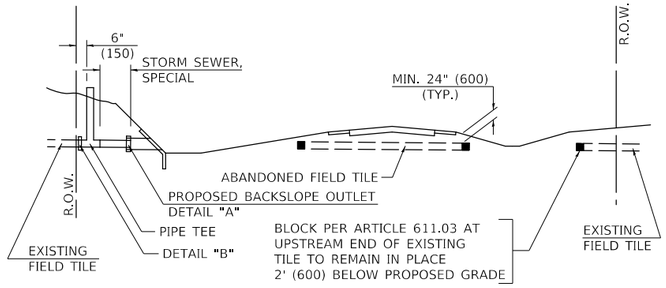
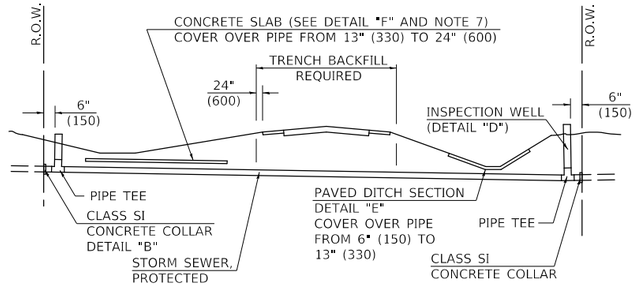


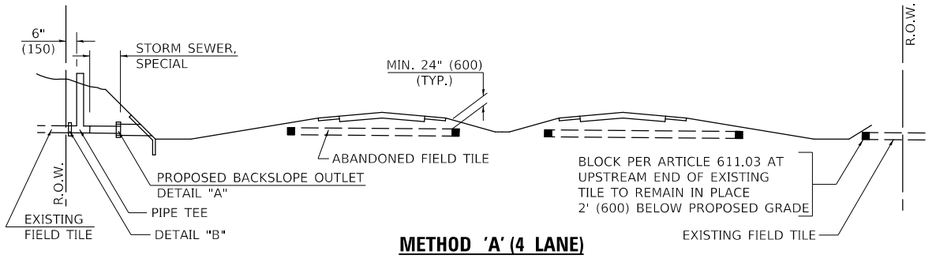
METHOD 'A' (2 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



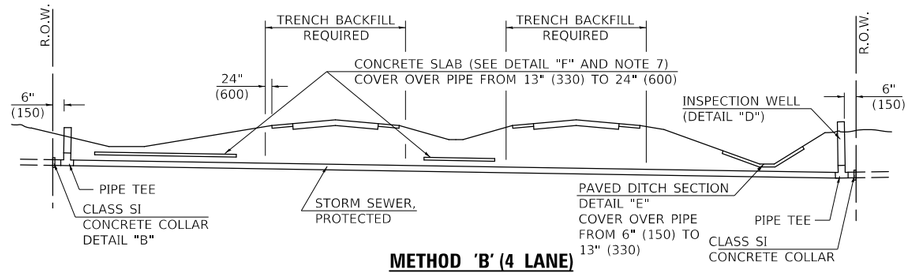
METHOD 'B' (2 LANE)

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



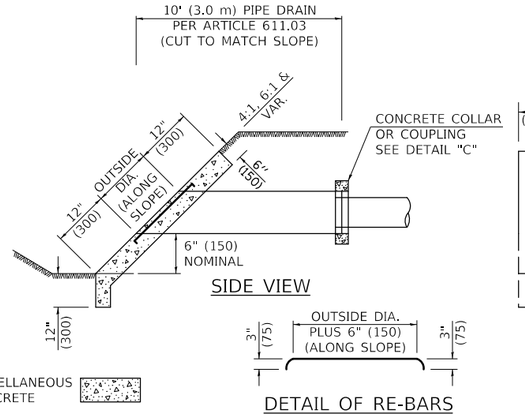
METHOD 'A' (4 LANE)

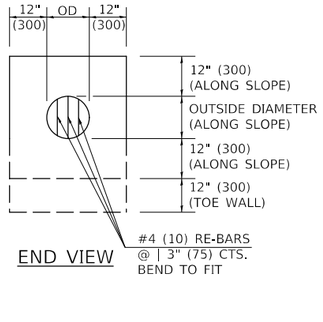
STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

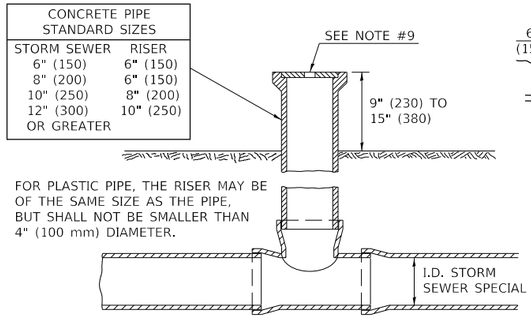


METHOD 'B' (4 LANE)

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES

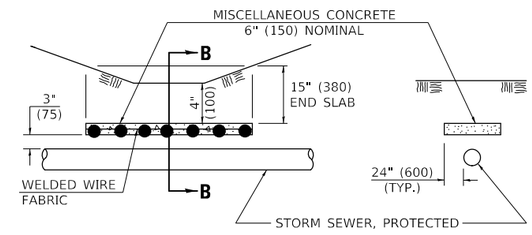






INSPECTION WELL

DETAIL "D"

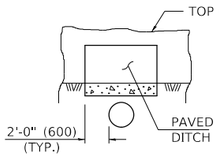


SLAB ELEVATION

SECTION B-B

CONCRETE SLAB

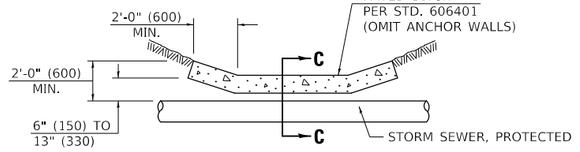
DETAIL "F"



SECTION C-C

PAVED DITCH

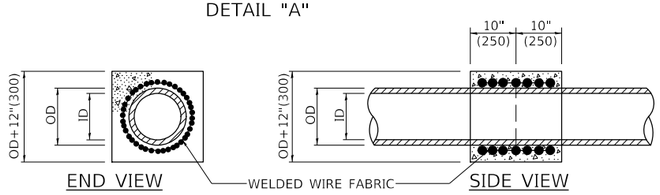
DETAIL "E"



PAVED DITCH ELEVATION

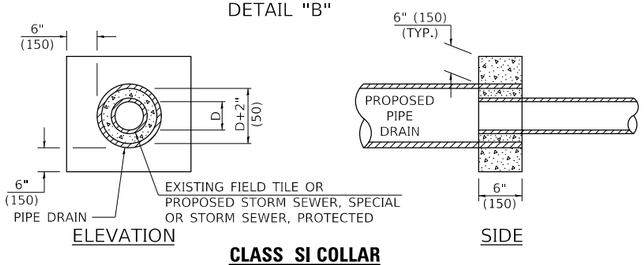
HEADWALL FOR BACKSLOPE OUTLET

DETAIL "A"



CONCRETE COLLAR

DETAIL "B"



CLASS SI COLLAR

DETAIL "C"

GENERAL NOTES

1. EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
2. ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
3. INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
4. EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
5. NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
6. THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
7. ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
8. HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
9. THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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	DRAWN -	REVISED -	
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PLOT DATE = 6/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

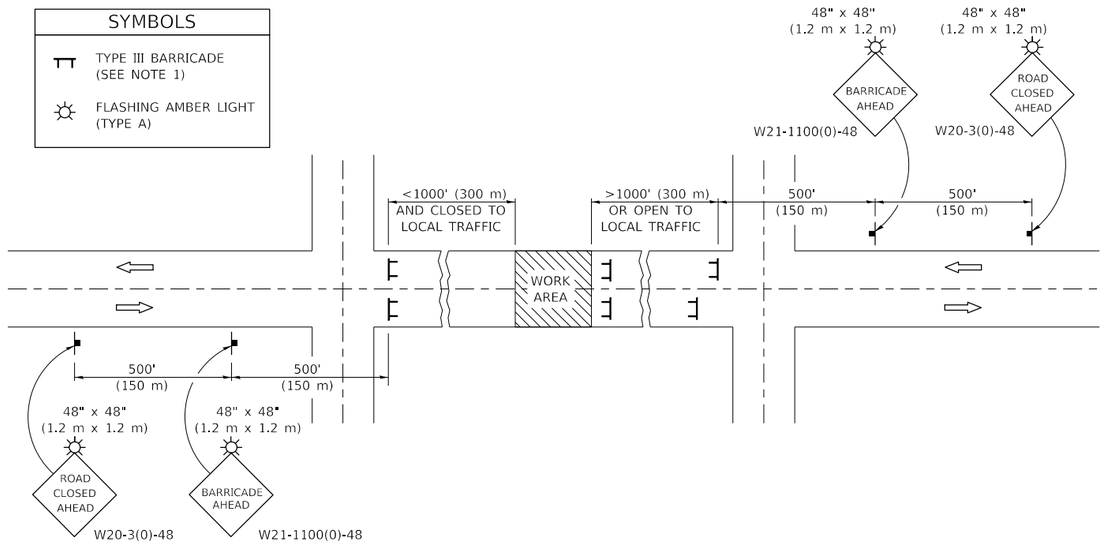
FIELD TILE SYSTEMS (TREATMENT OF EXISTING)

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

DISTRICT 5 DETAIL NO. 61101011A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	38
		CONTRACT NO. 70602		
		ILLINOIS	FED. AID PROJECT	

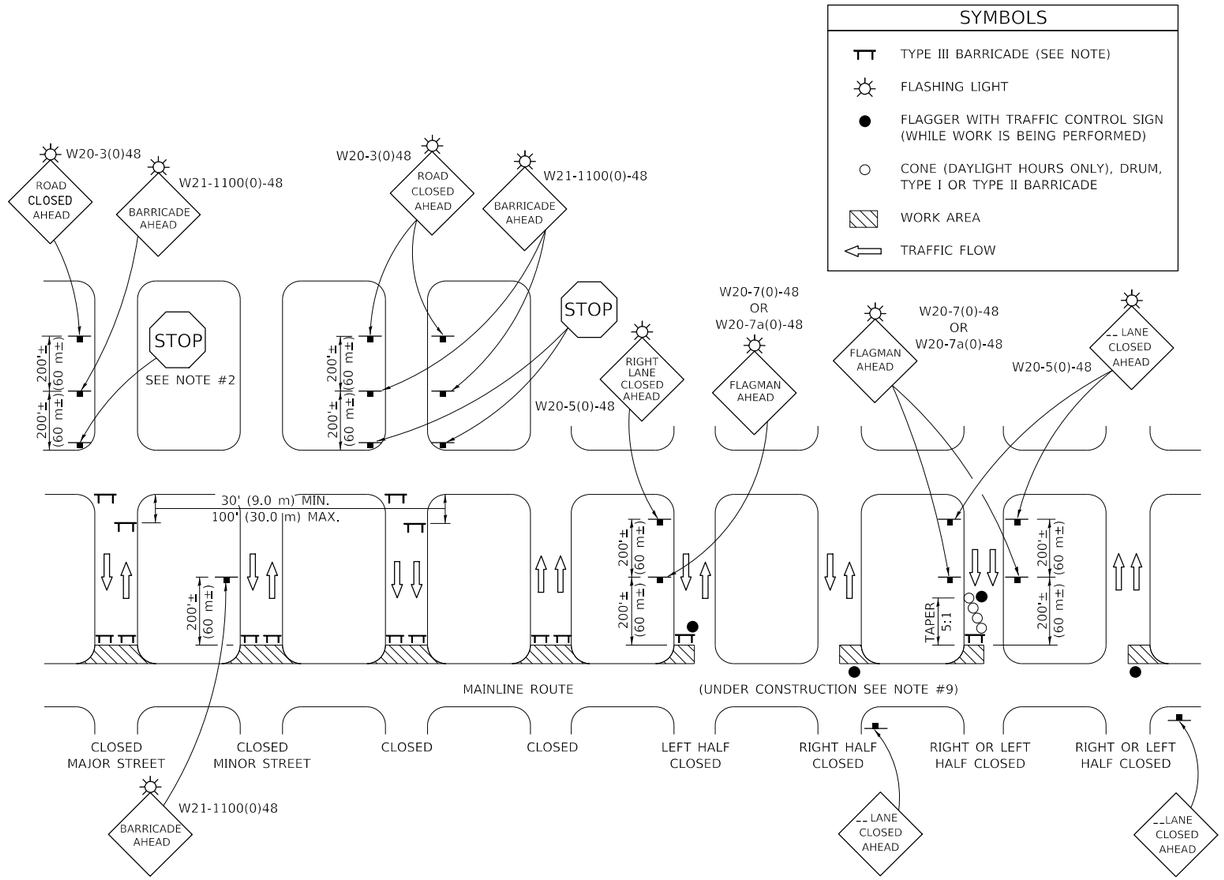
ROAD CLOSURE



GENERAL NOTES

1. TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
2. IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
3. WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
4. STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
5. IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
6. REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TY III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
7. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
8. A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
9. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
10. FORMS BT. 725 AND BT. 726 ARE REQUIRED.
11. WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
12. AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SIDEROAD / STREET CLOSURE



GENERAL NOTES

1. TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
2. WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
3. STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
4. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
5. ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
7. FORMS BT 725 AND BT 726 ARE REQUIRED.
8. THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
9. ALL FLAGGERS REQUIRED AT SIDE ROADS AND ENTRANCES REMAINING OPEN TO TRAFFIC AND/OR ADDITIONAL BARRICADES REQUIRED BY THE ENGINEER TO CLOSE SIDE ROADS AND ENTRANCES WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 70200000

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PLOT DATE = 6/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL & PROTECTION DEVICES (ROAD & SIDEROAD / STREET CLOSURES)

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	39
		CONTRACT NO. 70602		
		ILLINOIS	FED. AID PROJECT	

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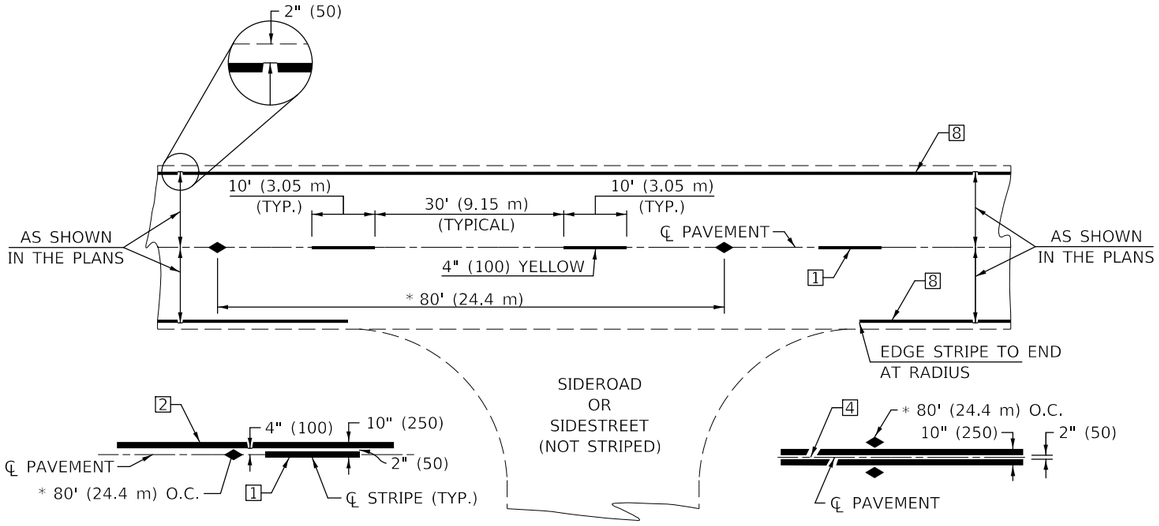


SINGLE NO PASSING

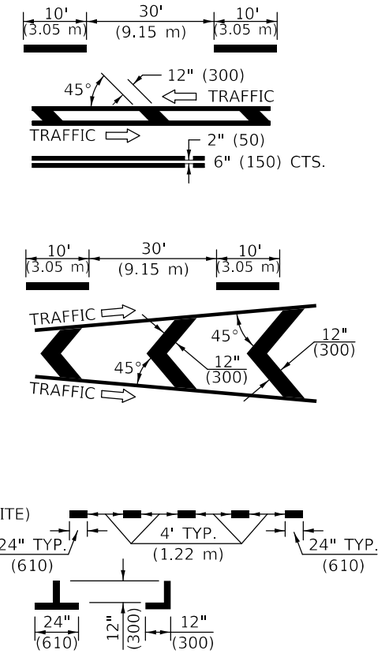
DOUBLE NO PASSING

* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

TWO LANE/TWO WAY

TYPICAL PAVEMENT MARKING LEGEND

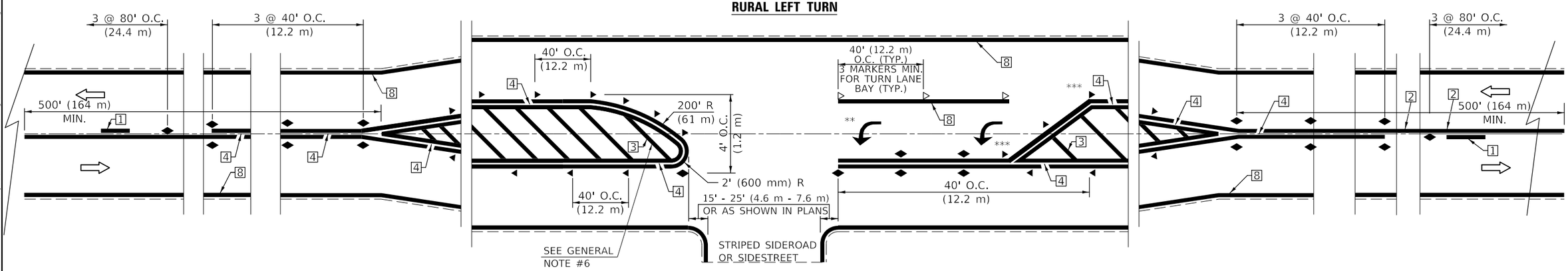
1. 4" (100) SKIP-DASH (YELLOW)
2. 4" (100) SOLID (YELLOW)
3. 12" (300) DIAGONAL (YELLOW)
4. 4" (100) DOUBLE YELLOW (NARROW)
5. RESERVED
6. RESERVED
7. 4" (100) SKIP-DASH (WHITE)
8. 4" (100) SOLID (WHITE)
9. 12" (300) DIAGONAL (WHITE)
10. 6" (150) SOLID (WHITE)
11. 24" (600) STOP BAR (WHITE)
12. 8" (200) SOLID (WHITE)
13. 4" (100) LANE LINE EXTENSIONS (WHITE)
14. 4" (100) PARKING WHITE



TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RURAL LEFT TURN



*** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

** TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. 7800AAAA

USER NAME = PiersonTJ	DESIGNED -	REVISED - 11/06	
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PLOT DATE = 6/22/2020	DATE -	REVISED - 3/2019 SWN	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: N.T.S. | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 70602		
		ILLINOIS	FED. AID PROJECT	

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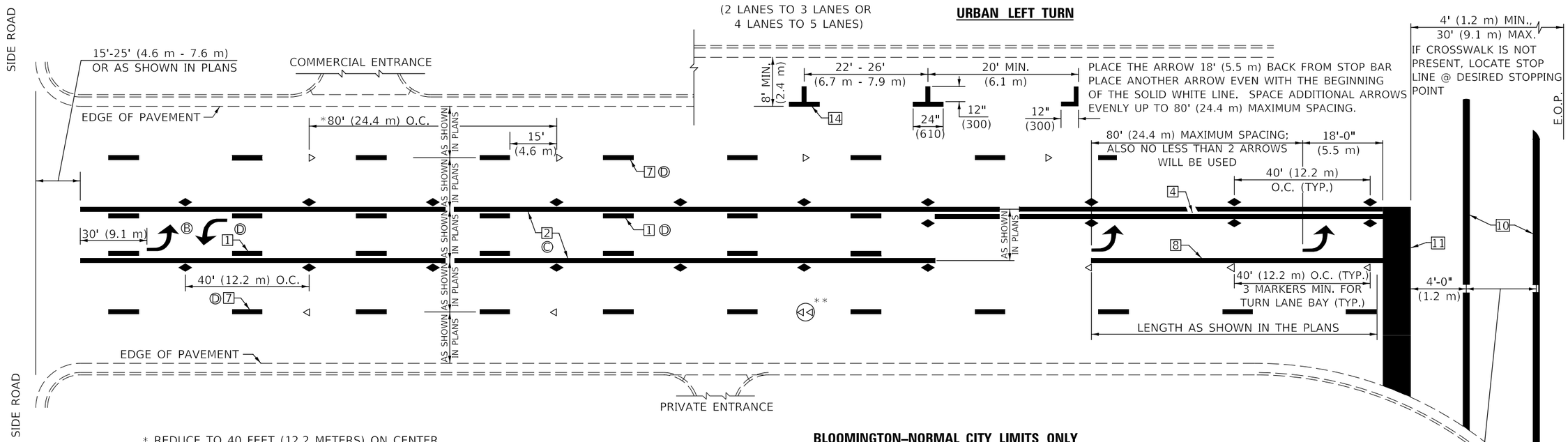
URBAN LEFT TURN



* REDUCE TO 40 FEET (12.2 METERS) ON CENTER ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

GENERAL NOTES:

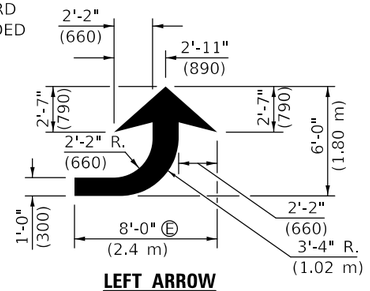
Ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.

Ⓒ THE SOLID YELLOW PAVEMENT MARKINGS 2 SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.

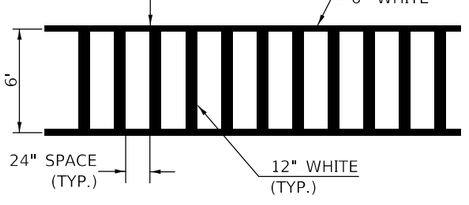
Ⓓ THE SKIP-DASH PAVEMENT MARKINGS 1 OR 7 SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.

Ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)

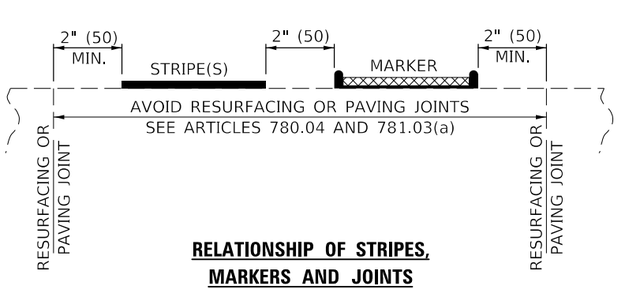
BLOOMINGTON–NORMAL CITY LIMITS ONLY



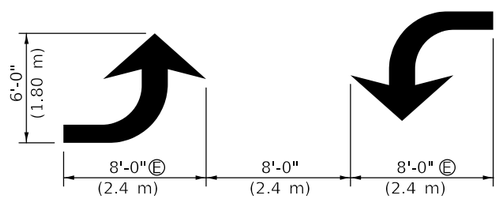
LEFT ARROW
REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m^2)
(WHITE)



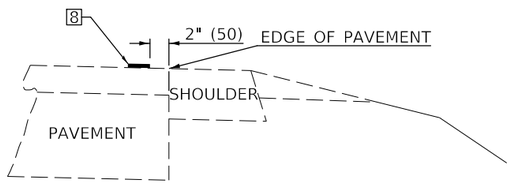
TYPICAL SPACING FOR CROSSWALKS & STOP BARS



RELATIONSHIP OF STRIPES, MARKERS AND JOINTS



TYPICAL DOUBLE TURN ARROWS (WHITE)



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT
(SAFETY SHOULDER OR PAVED SURFACE)
SEE ARTICLE 780.04

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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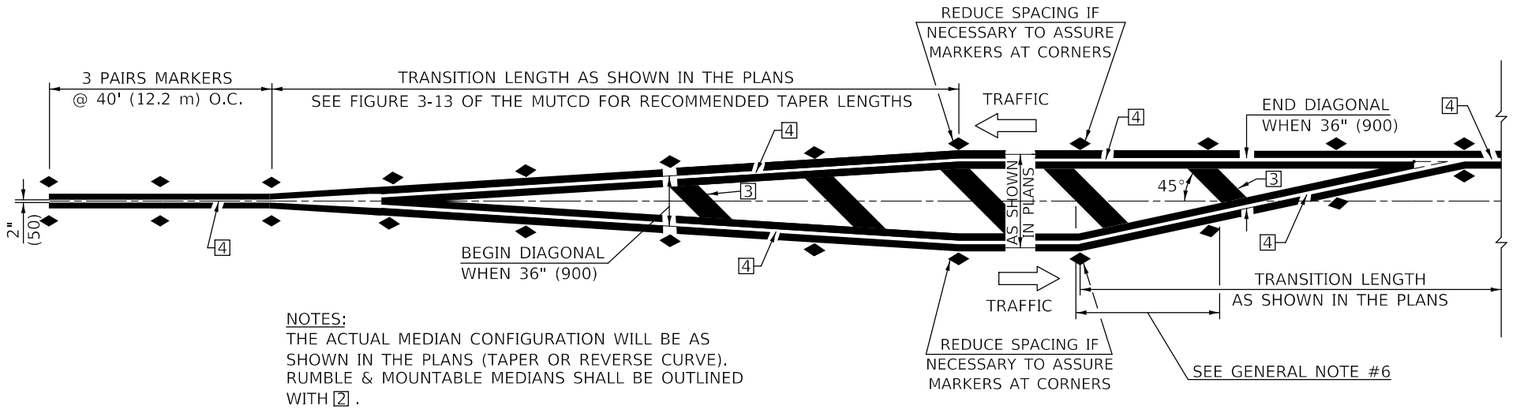
	DRAWN -	REVISED - 9/2009 KJT			
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED - 04/14 JLA			
PLOT DATE = 6/22/2020	DATE -	REVISED - 3/2019 SWN		SCALE: N.T.S. SHEET 2 OF 4 SHEETS STA. TO STA.	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	41
		CONTRACT NO. 70602		
		ILLINOIS FED. AID PROJECT		

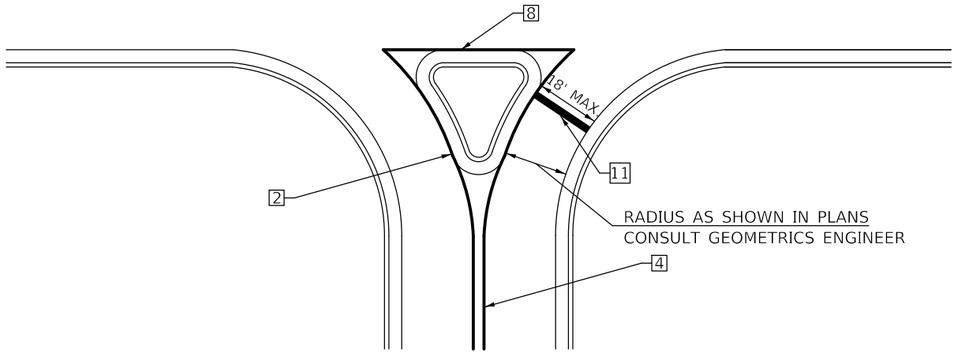


NOTES:
THE ACTUAL MEDIAN CONFIGURATION WILL BE AS SHOWN IN THE PLANS (TAPER OR REVERSE CURVE). RUMBLE & MOUNTABLE MEDIANS SHALL BE OUTLINED WITH 2 .

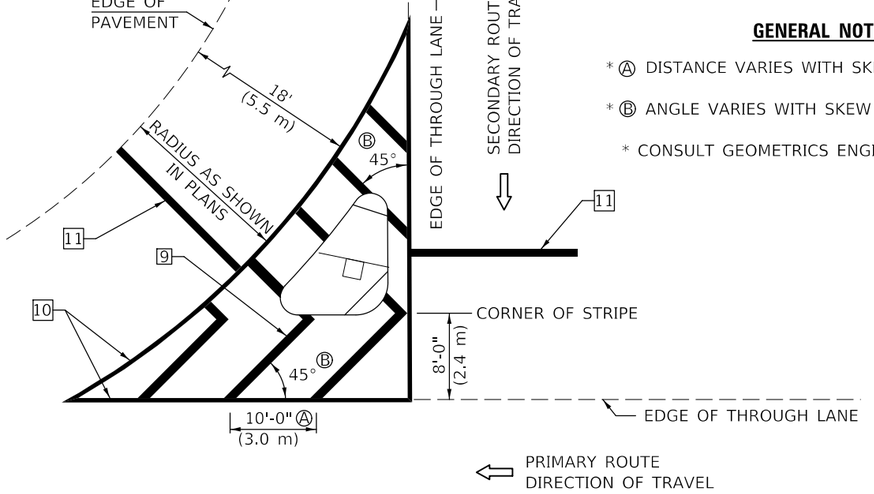
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
   <30 MPH USE 15' (<50 km/h USE 4.5 m)
   30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
   >45 MPH USE 30' (>75 km/h USE 9.0 m)



RIGHT IN – RIGHT OUT ACCESS



GENERAL NOTES

* Ⓐ DISTANCE VARIES WITH SKEW OF INTERSECTION.
* Ⓑ ANGLE VARIES WITH SKEW OF INTERSECTION.
* CONSULT GEOMETRICS ENGINEER

ISLAND

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

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PLOT DATE = 6/22/2020	DATE -	REVISED -	3/2019 SWN

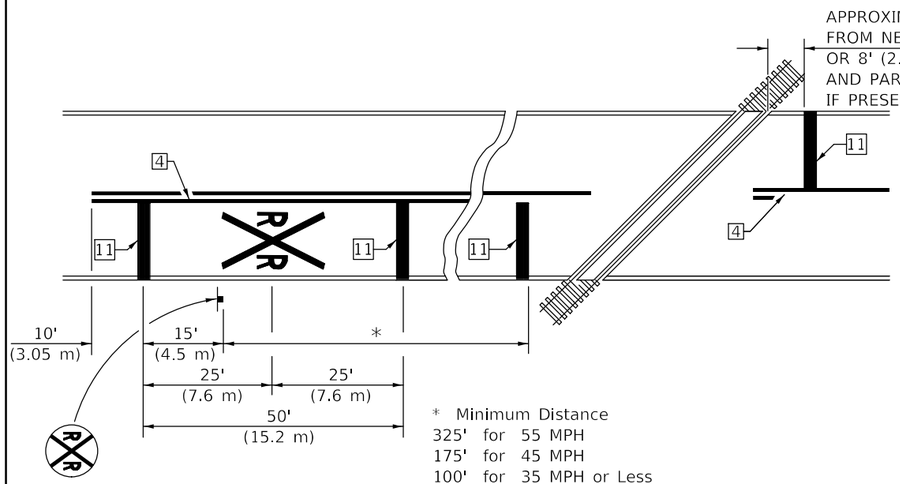
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: N.T.S. | SHEET 3 OF 4 SHEETS | STA. | TO STA.

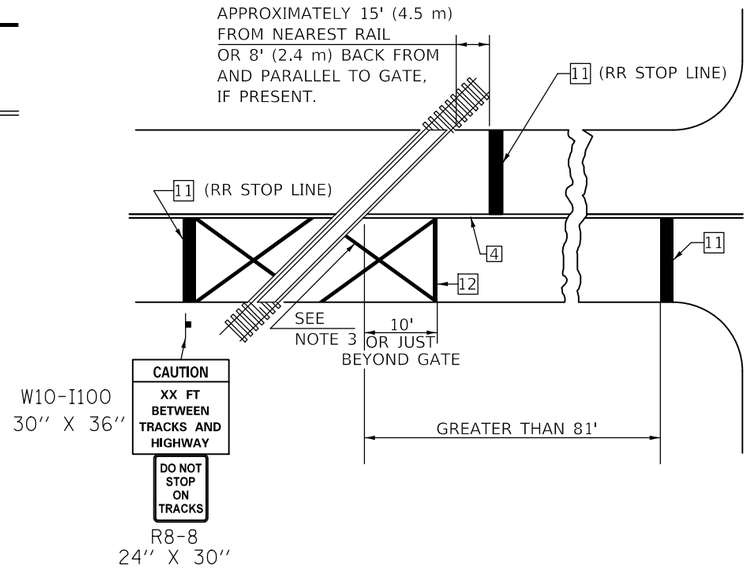
DISTRICT 5 DETAIL NO. 7800AAAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	42
		CONTRACT NO. 70602		
		ILLINOIS	FED. AID PROJECT	

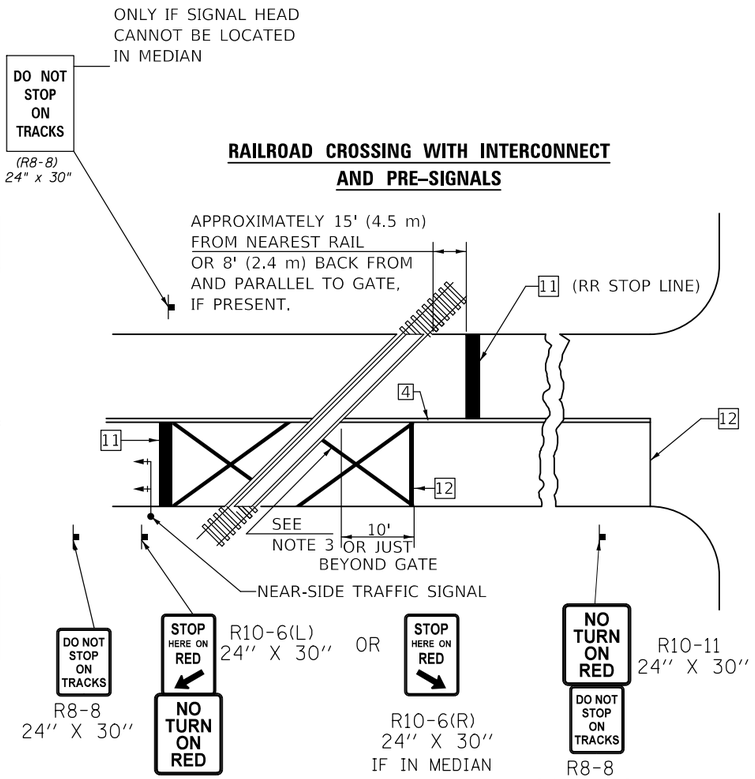


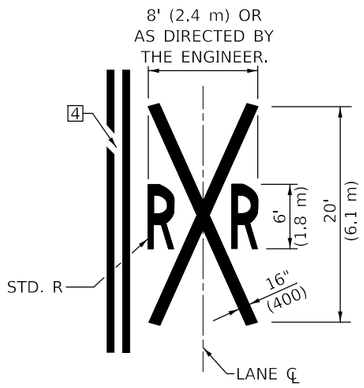
PAVEMENT MARKINGS AT
RAILROAD–HIGHWAY GRADE CROSSING

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT
AND PRE–SIGNALS





GENERAL NOTES

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.

2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.

3. 6" WHITE PAVEMENT MARKINGS AT 45° TO PAVEMENT, 8' CENTER TO CENTER.

4. XX DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICH EVER IS CLOSEST, ROUNDED DOWN TO NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.

5. THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTENDED TO THE INTERSECTION.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR
RAILROAD–HIGHWAY GRADE CROSSING

ALTERNATE SIGNS

NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DESIGNER NOTE: SEE TABLE 2C-4 OF THE MUTCD FOR ADDITIONAL INFORMATION

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	DRAWN -	REVISED -	9/2009 KJT
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	04/14 JLA
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND MARKERS
(RURAL & URBAN APPLICATIONS)

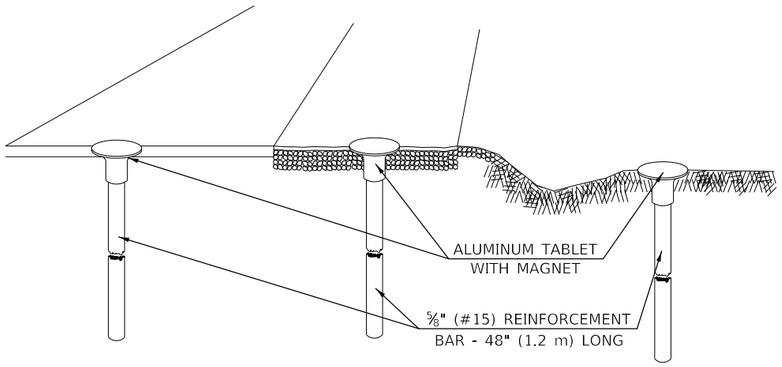
SCALE: N.T.S. | SHEET 4 OF 4 SHEETS | STA. | TO STA.

DISTRICT 5 DETAIL NO. 7800AAAA

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	43
		CONTRACT NO. 70602		
	ILLINOIS	FED. AID PROJECT		

XZ193300 – SURVEY MARKER, TYPE 1 (SPECIAL)

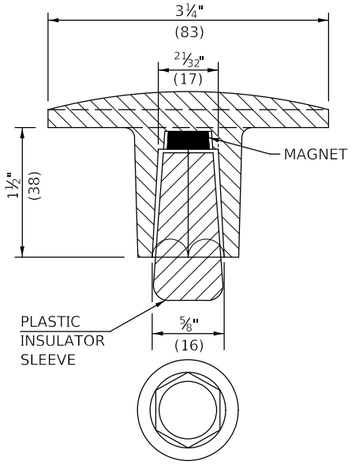
TO BE INSTALLED IN FLEXIBLE PAVEMENT OR SHOULDER, BITUMINOUS TREATED SURFACE AND TURF AREAS WITHIN THE RIGHT-OF-WAY FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)

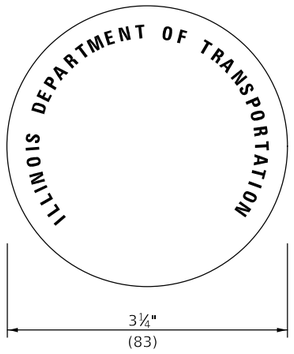


IN FLEXIBLE PAVEMENT OR SHOULDER

IN BITUMINOUS TREATED SURFACE

IN TURF AREAS WITHIN R.O.W.





THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

GENERAL NOTES

1. THE CONTRACT UNIT PRICE, EACH, FOR SURVEY MARKER, TYPE 1 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE REINFORCEMENT BAR AND ALUMINUM TABLET AND FOR ALL LABOR AND MATERIAL REQUIRED TO SET THE MARKER IN PLACE.
2. ALL SURVEY MARKERS, TYPE 1 (SPECIAL) SHALL BE PLACED ±1/4" (6 mm) BELOW THE FINAL SURFACE.
3. WHEN THE TABLET AND REBAR ARE PLACED AS PART OF A SURVEY MARKER VAULT, THEY SHALL BE CONSIDERED AS INCLUDED IN THAT PAY ITEM AND THERE WILL BE NO PAYMENT FOR THE SURVEY MARKER, TYPE 1 (SPECIAL).

SPECIFICATIONS FOR ALUMINUM TABLET

SURVEY CAP FOR REBAR. 3¼" (83 mm) CONVEX SURVEY CAP FOR ⅝" (15 mm) REBAR WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE LETTERS RECESSED INTO THE SURFACE A MINIMUM OF 1/32" (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM CAP FOR REBAR SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM CAP FOR REBAR SHALL BE TAPERED FOR A PERFECT COMPRESSION FIT. A SPECIAL PLASTIC INSULATOR SHALL BE INSTALLED TO PREVENT DISSIMILAR METAL CONTACT AND CORROSION. THE PLASTIC INSULATOR SHALL FORM READILY TO THE OUTER SHAPE OF THE REBAR AND TO THE INNER SHAPE OF THE ALUMINUM CAP SOCKET. THE PLASTIC INSULATOR SHALL BE LOW DENSITY POLYETHYLENE, A MINIMUM 1½" (38 mm) LONG AND CONFORM TO FEDERAL SPECIFICATION L-P 390.

COMPOSITION: ALUMINUM 98.3-98.7%; OTHER 1.3-1.7%; STRENGTH: YIELD 28 KSI (193 MPa), ULTIMATE 32 KSI (221 MPa). ELONGATION 15% [IN 2" (50 mm)]. SPECIFICATIONS: ALUMINUM ALLOY 6101-0; ASTM B317-83 (EXCEPT TEMPER) AS FORGED. NO EXCEPTIONS.

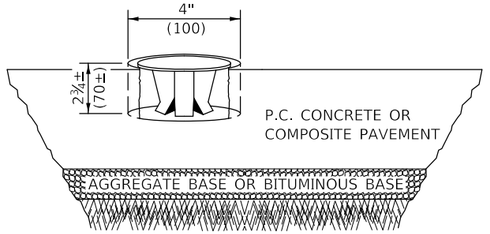
SPECIFICATIONS FOR REBAR

REBAR FOR ALUMINUM TABLET. REINFORCEMENT BAR SHALL BE ⅝" (#15) X 48" (1.2 m) (DEFORMED).

INSPECTION OF REINFORCEMENT BAR ⅝" (#15) SHALL BE DONE BY DISTRICT PERSONNEL OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS.

XZ193400 – SURVEY MARKER, TYPE 2 (SPECIAL)

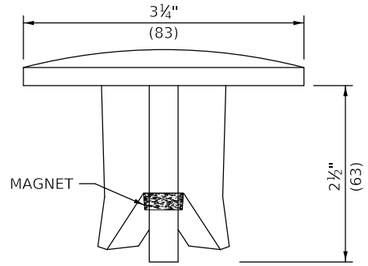
TO BE INSTALLED IN RIGID OR COMPOSITE PAVEMENT FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



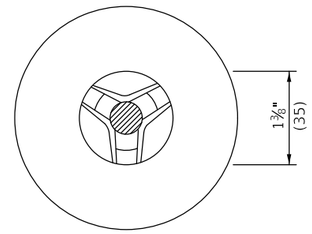
SPECIFICATIONS FOR ALUMINUM TABLET (FORKED)

ALUMINUM TABLET (FORKED) FOR USE WITH "SURVEY MARKER, TYPE 2, (SPECIAL)" SHALL BE AS SHOWN ON THE DETAIL FOR THE 3¼" (83 mm) CONVEX SURVEY TABLET WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE FOR LETTERS RECESSED INTO THE SURFACE A MINIMUM OF 1/32" (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM TABLET SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM TABLET SHALL BE DESIGNED NOT TO TURN OR ROTATE. THREE PRONGS ON A 2½" (63 mm) STEM SHALL BE SUCH THAT THE ALUMINUM TABLET CANNOT BE EASILY REMOVED.

COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD 19,000-21,000 PSI (131-145 MPa); TENSILE 38,000-44,000 PSI (262-303 MPa); ELONGATION 10-15% [IN 2" (50 mm)]. SPECIFICATIONS: ALLOY 535.0; QQ-A-601ES. NO EXCEPTIONS.



SIDE VIEW



BOTTOM VIEW

THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

GENERAL NOTES

1. WORK ON THIS ITEM SHALL NOT START UNTIL THE FINAL SURFACE IS COMPLETED.
2. THE ALUMINUM TABLET (FORKED) SHALL REST UPON THE BOTTOM OF THE 4" (100 mm) CORE HOLE. IF THE HOLE IS TOO DEEP, EPOXY GROUT MUST BE USED TO DECREASE THE DEPTH AND ALLOWED TO HARDEN BEFORE PROCEEDING.
3. THE ALUMINUM TABLET SHALL BE ANCHORED IN THE 4" (100 mm) DIAMETER HOLE IN THE NEW PAVEMENT WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
4. THE 4" (100 mm) CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
5. THE CONTRACT PRICE, EACH, FOR SURVEY MARKER, TYPE 2 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE ALUMINUM TABLET AND FOR ALL LABOR AND MATERIAL REQUIRED TO SET THE MARKER IN PLACE, AS SPECIFIED, INCLUDING CORING THE NEW PAVEMENT.
6. ALL SURVEY MARKERS, TYPE 2 (SPECIAL) SHALL BE PLACED ± 1/4" (6 mm) BELOW THE FINAL SURFACE.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 5 DETAIL NO. XZ193AAA

USER NAME = PiersonTJ	DESIGNED -	REVISED -	11/06
	DRAWN -	REVISED -	11/10
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 6/22/2020	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SURVEY MARKERS TYPE 1 & 2 (SPECIAL)

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
801	4BR-2	CHAMPAIGN	44	44
		CONTRACT NO. 70602		
	ILLINOIS	FED. AID PROJECT		

MODEL: $MODELNAME$
FILE NAME: pw:\\ilanroom.dot.illinois.edu:PWIDOT\Documents\IDOT Offices\District 5\Projects\D5 70602\CADData\Design\D570602-sht-Detail-District.dgn