### 01-18-2019 LETTING ITEM 014

### INDEX OF SHEETS

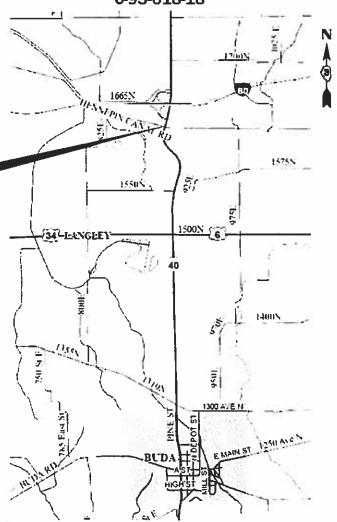
- 1. COVER SHEET
  2. GENERAL NOTES
- 3 · 4. SUMMARY OF QUANTITIES
- 5. TYPICAL SECTION
- 6. ADVANCE SIGNING FOR TRAFFIC CONTROL AND PROTECTION
- STANDARD 701321
- 7 8 STAGING DETAILS FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
- 14. EXISTING STRUCTURE PLANS: FOR INFORMATION ONLY

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

# PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 646 (IL 40)
SECTION (104C-BR)BP
PROJECT STP-KFX4(316) BRIDGE
PAINTING
BUREAU COUNTY

C-93-018-18



## HIGHWAY STANDARDS

000001-07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS 001006 DECIMAL OF AN INCH AND OF A FOOT

701001-02 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM

PAVEMENT EDGE

701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701206-05 LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS ≥ 45 MPH
701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

701301-04 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY

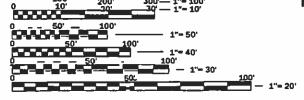
701901-08 TRAFFIC CONTROL DEVICES 704001-08 TEMPORARY CONCRETE BARRIER

782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

701321-17 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER

## PROJECT LOCATION

STRUCTURE NO. 006-0090
CARRYING FAP 646 (IL 40) OVER THE
HENNEPIN CANAL, 0.4 MILES SOUTH OF I-80



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

0

0

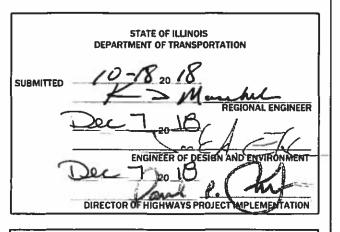
PROJECT ENGINEER JOE KANNEL P.E. UNIT CHIEF RON WOODSHANK DISTRICT 3 NO. (815) 434-6131 CONTRACT NO. 66H81

#### D-93-019-18



#### **FUNCTIONAL CLASSIFICATION**

RURAL MINOR ARTERIAL F.A.P. ROUTE 646 (1L 40) 2017 ADT = 2300 P.V. 45.9% 5.U. 5.2% M.U. 48.9%



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. 11/21/18 REV. 11/20/18

#### **GENERAL NOTES**

- 1. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- THE EXISTING STRUCTURAL STEEL CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.
- 3. STRUCTURE NO. 006-0090 SHALL BE DESIGNATED AS "LOCATION 1".
- THE SSPC-QP1 AND SSPC-QP2 "PAINTING CONTRACTOR CERTIFICATIONS" WILL BE REQUIRED FOR THIS PROJECT.
- A MINIMUM OF TWO AIR MONITORS SHALL BE REQUIRED FOR THIS STRUCTURE.
  THE CONTRACTOR SHALL FURNISH AND INSTALL THE MONITORS AS DIRECTED BY
  THE ENGINEER. (SEE THE SPECIAL PROVISION FOR "CONTAINMENT AND DISPOSAL
  OF LEAD PAINT CLEANING RESIDUES".)
- CLEANING AND PAINTING OF EXISTING STRUCTURAL STEEL SHALL BE AS SPECIFIED IN THE SPECIAL PROVISION FOR "CLEANING AND PAINTING EXISTING STEEL STRUCTURES" AND AS SPECIFIED BELOW.
  - a) ALL EXISTING STRUCTURAL STEEL, (INCLUDING BEAMS, DIPHRAGMS, DRAINS, CROSS/LATERAL FRAMING WHEN PRESENT, AND EXPOSED SURFACES OF BEARING ASSEMBLIES WITHIN A DISTANCE OF 12' EACH WAY FROM DECK JOINTS SHALL BE CLEANED PER THE REQUIREMENTS OF "NEAR WHITE BLAST CLEANING - SSPC-SP-10".
  - b) ALL EXISTING STRUCTURAL STEEL, (INCLUDING BEAMS, DIPHRAGMS, DRAINS, CROSS/LATERAL FRAMING WHEN PRESENT AND EXPOSED SURFACES OF BEARING ASSEMBLIES WITHIN A DISTANCE OF 12' EACH WAY FROM DECK JOINTS SHALL BE PAINTED PER THE REQUIREMENT OF "PAINT SYSTEM 1-OZ/E/U".
    - THE FINAL FINISH COAT FOR ALL STRUCTURAL STEEL SHALL BE MUNSELL NO. 2.5YR 3/4, REDDISH BROWN.
- 7. THE CONTRACTOR SHALL BE REQUIRED TO SECURE WASTE CONTAINERS THAT REMAIN ON THE JOB SITE. THIS WILL ENTAIL THAT ALL WASTE CONTAINERS CAN NOT BE MOVED OR OPENED DURING NON-WORKING HOURS.
- 8. WORKING DAYS SHALL BE CHARGED UNTIL THE CONTRACTOR/SUBCONTRACTOR LISCENSED TO DISPOSE OF NON-LEAD PAINT RESIDUES HAS REMOVED THE WASTE MATERIAL FROM THE JOB SITE ACCORDING TO ALL FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES. IF THE LISCENSED CONTRACTOR OR SUBCONTRACTOR FAILS TO DISPOSE OF THE NON-LEAD PAINT RESIDUES ON OR BEFORE THE SPECIFIED COMPLETION DATE, LIQUIDATED DAMAGES SHALL BE CHARGED PER CALENDAR DAY ACCORDING TO ARTICLE 108.09 OF THE STANDARD SPECIFICATIONS UNTIL SUCH TIME THAT ALL PAINT RESIDUE MATERIALS HAVE BEEN PROPERLY REMOVED AND DISPOSED OF.

### COMMITMENTS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SCALE:

		_	DISTRICT THREE
	SUPERVISING CONSTRUCTION FIELD ENGINEER	PREPARED BY:	De Brown L
	RESIDENT ENGINEER / TECHNICIAN	DATE:	DISTRICT STUDIES & PLANS ENGINEER
START & END DATES OF CONSTRUCTION:		EXAMINED BY:	Kyle Videgas K
INSPECTORS:			DISTRICT CONSTRUCTION ENGINEER
			DISTRICT MATERIALS ENGINEER
			DISTRICT OPERATIONS ENGINEER

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

			T	BRIDGE PAINTING 80% FED. 20% STATE
6005				BRIDGE
CODE			TOTAL	0047
NO.	ITEM	UNIT	QUANTITY	S.N. 006-0090
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	300	300
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	300	300
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	160	160
70000230	FOLTUNEA FAVEMENT MARKING TIPE 1 - LINE 0	1001	100	100
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	80	80
X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	6	6
Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1
Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1

Δ SPECIALTY ITEM

FILE NAME =  pw:\\\\L084EBIDINTEG.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	USER NAME = woodshankrl  DT Offices\District 3\Projects\D366H81\CADData\66H81-cover.d	DESIGNED - pnDRAWN -	RW	REVISED -	STATE OF ILLINOIS		SUMMAR	Υ 0
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Default	PLOT DATE = 8/10/2018	DATE -	5/31/2018	REVISED -		SCALE:	SHEET 1 OF 2	s

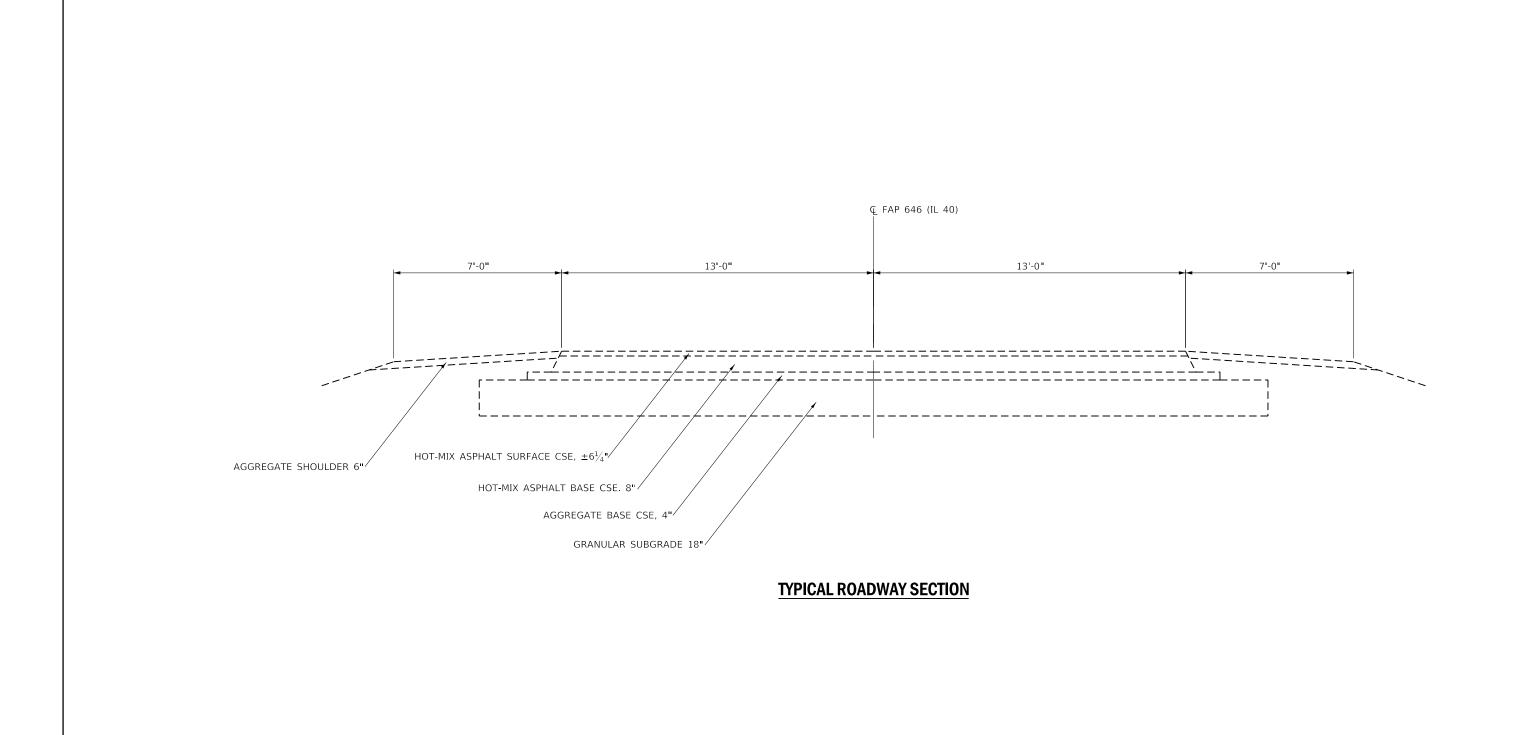
CONSTRUCTION CODE

				CONSTRUCTION	CODE
				BRIDGE PAIN	TING
				80% FED. 20%	STATE
				BR I DGE	
CODE			TOTAL	0047	
NO.	ITEM	UNIT	QUANTITY	S.N. 006-0	090
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42	

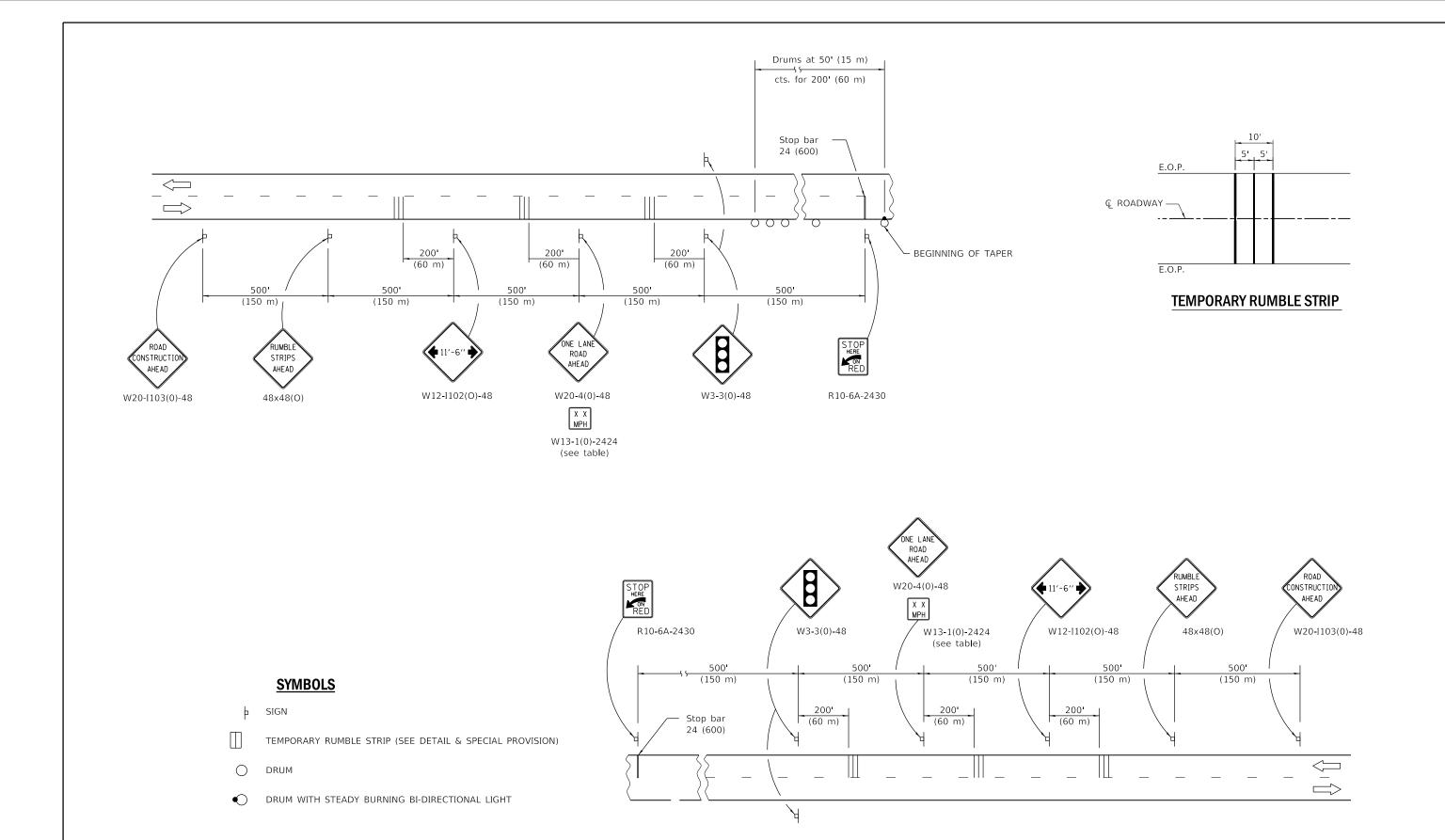
FILE NAME =	USER NAME = woodshankri	DESIGNED -	RW	REVISED -
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Default	PLOT DATE = 8/10/2018	DATE -	5/31/2018	REVISED -

SCALE:

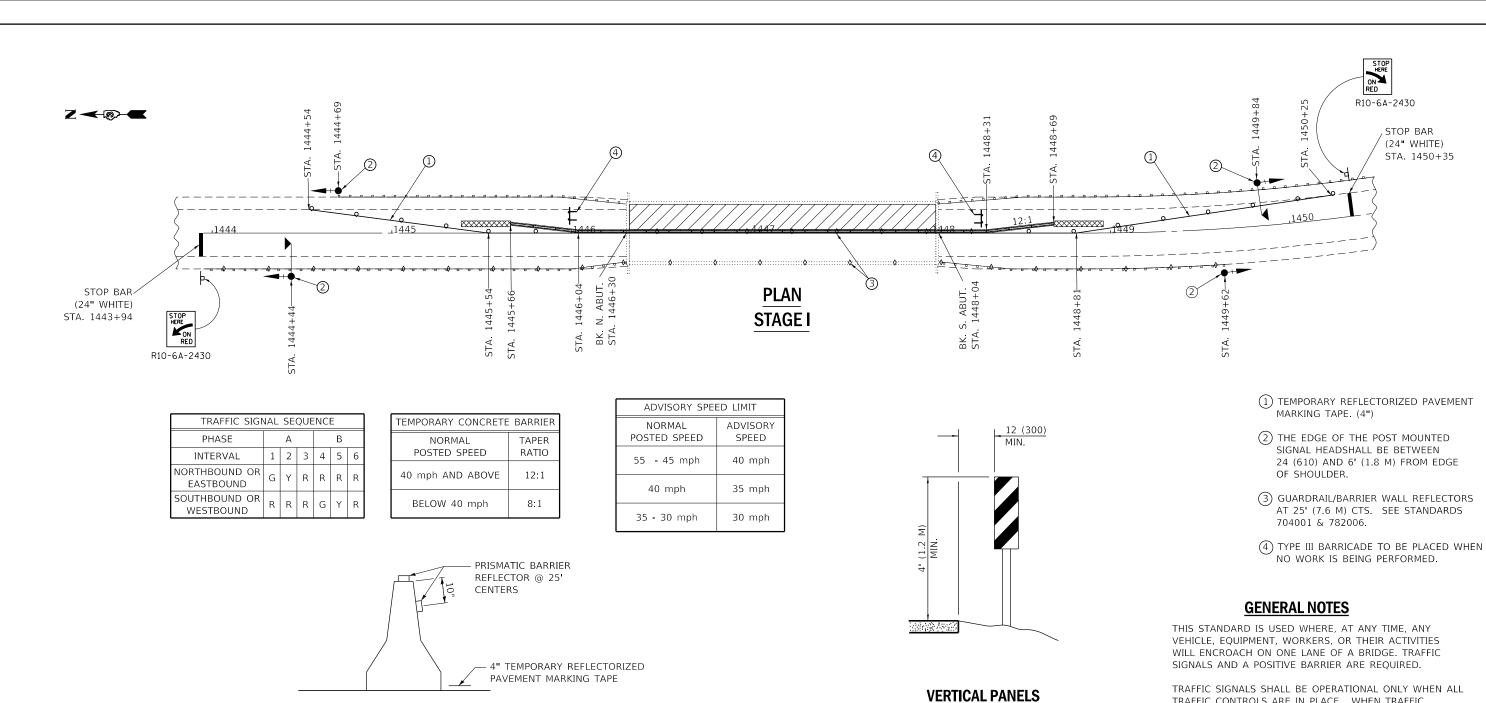
OUMANA DV. OF OUA NITITIES	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SUMMARY OF QUANTITIES	646	(104C-BR)BP	BUREAU	15	4
			CONTRA	CT NO. 6	6H81
SHEET 2 OF 2 SHEETS STA. TO STA.		ILLINOIS E	ED. AID PROJECT		



#### COUNTY TOTAL SHEET NO. BUREAU 15 5 FILE NAME = USER NAME = woodyerjp DESIGNED - RW REVISED -SECTION STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TYPICAL SECTION REVISED -DRAWN - RW (104C-BR)BP REVISED -CONTRACT NO. 66H81 PLOT DATE = 7/23/2018 DATE - 5/31/2018 SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.



FILE NAME =	USER NAME = woodyerjp	DESIGNED -	RW	REVISED -		Δ	ADVANCE SIGNING FOR TRAFFIC CONTROL	F.A.P.	SECTION	COUNTY	TOTAL
c:\pw_work\pwidot\woodyerjp\d0528528\66H81-cover.dgn	ו	DRAWN -	RW	REVISED -	STATE OF ILLINOIS	-			(104C-BR)BP	BUREAU	15
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	JW	REVISED -	DEPARTMENT OF TRANSPORTATION	AND PROTECTION, STANDARD 701321				CONTRA	ACT NO
\$MODELNAME\$	PLOT DATE = 7/25/2018	DATE -	5/31/2018	REVISED -		SCALE:	SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AI	ID PROJECT	



## TEMPORARY CONCRETE BARRIER WALL DETAILS

## DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT (TAPERS) DRUM (TANGENTS) TEMPORARY CONCRETE BARRIER CRYSTAL, BIDIRECTIONAL TRAFFIC SIGNAL WITH BACKPLATE GUARDRAIL/BARRIER WALL REFLECTOR

WORK ZONE 12'-0" 4'-0" STAGE I TRAFFIC 4" TEMPORARY \EXISTING PAVEMENT PAVEMENT **CROSS SECTION** MARKING TAPE MARKING STAGE I LOOKING SOUTH

(POST MOUNTED, ONE EACH SIDE)

1 TEMPORARY REFLECTORIZED PAVEMENT

TRAFFIC CONTROLS ARE IN PLACE. WHEN TRAFFIC SIGNALS ARE NOT IN OPERATION, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL SHALL CONFORM TO STANDARD 701201 OR 701206.

TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001.

EXISTING OR TEMPORARY PAVEMENT MARKINGS SHALL BE ON BOTH SIDES OF OPEN LANE FROM STOP BAR TO STOP BAR.

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

TEMPORARY PAVEMENT MARKING AS SHOWN ON THIS DETAIL, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STANDARD.

THE ARROW ON THE BACKSIDES OF DIRECTIONAL INDICATOR BARRICADES MUST BE REMOVED OR COVERED. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE APPLICABLE TRAFFIC CONTROL STANDARDS.

- 1	FILE NAME =	USER NAME = woodshankri	DESIGNED	-	RW	REVISED	-
- 1	pw:\\IL084EBIDINTEG.IIInols.gov:PWIDOT\Documents\ID	DT Offices\District 3\Projects\D366H81\CADData\66H81-cover.d	∍nDRAWN	-	RW	REVISED	-
- 1		PLOT SCALE = 100.0000 '/in.	CHECKED	-	JW	REVISED	-
- 1	Default	PLOT DATE = 8/10/2018	DATE	-	5/31/2018	REVISED	-
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**SYMBOLS** 

WORK AREA

TYPE III BARRICADE

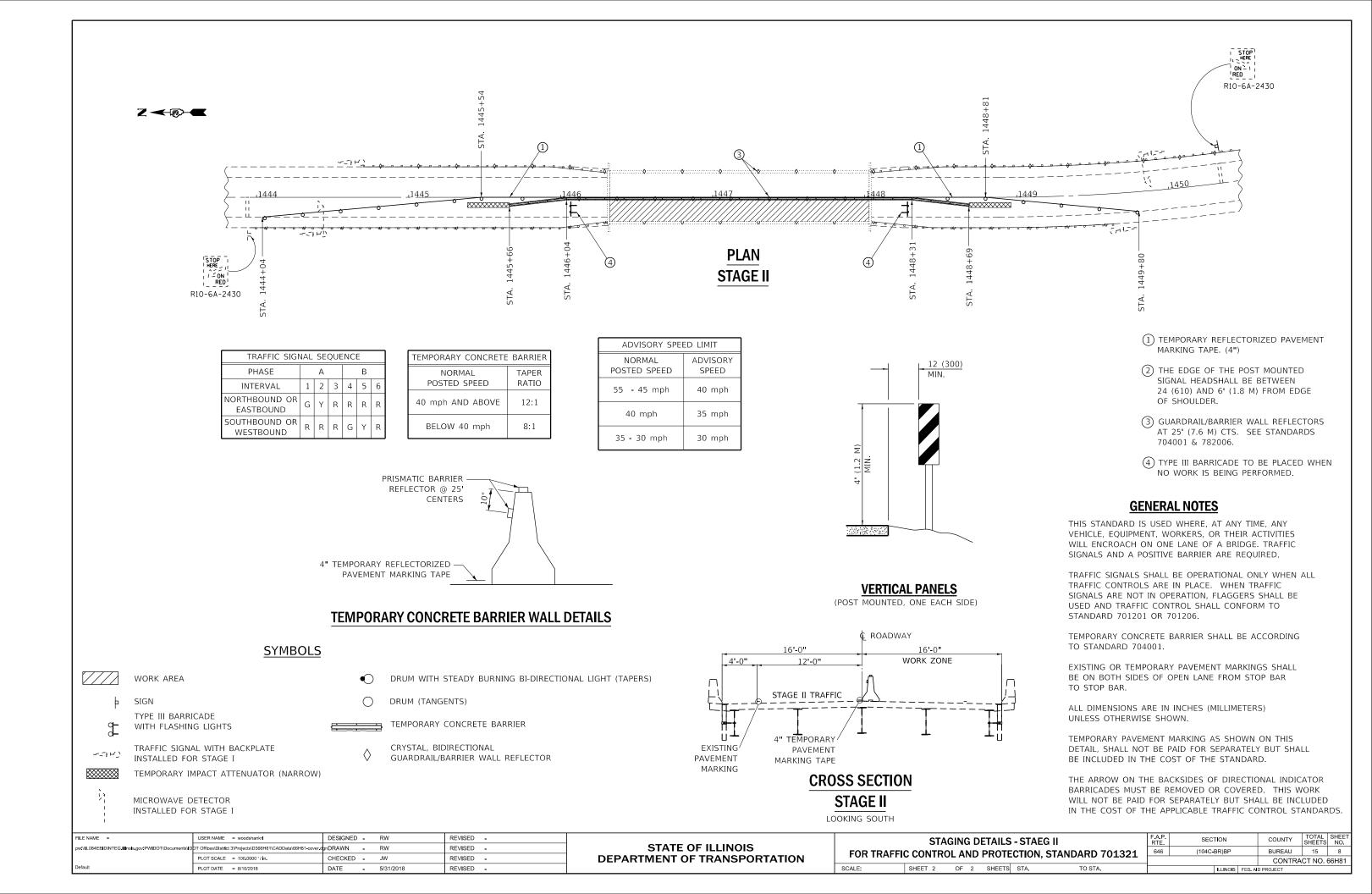
WITH FLASHING LIGHTS

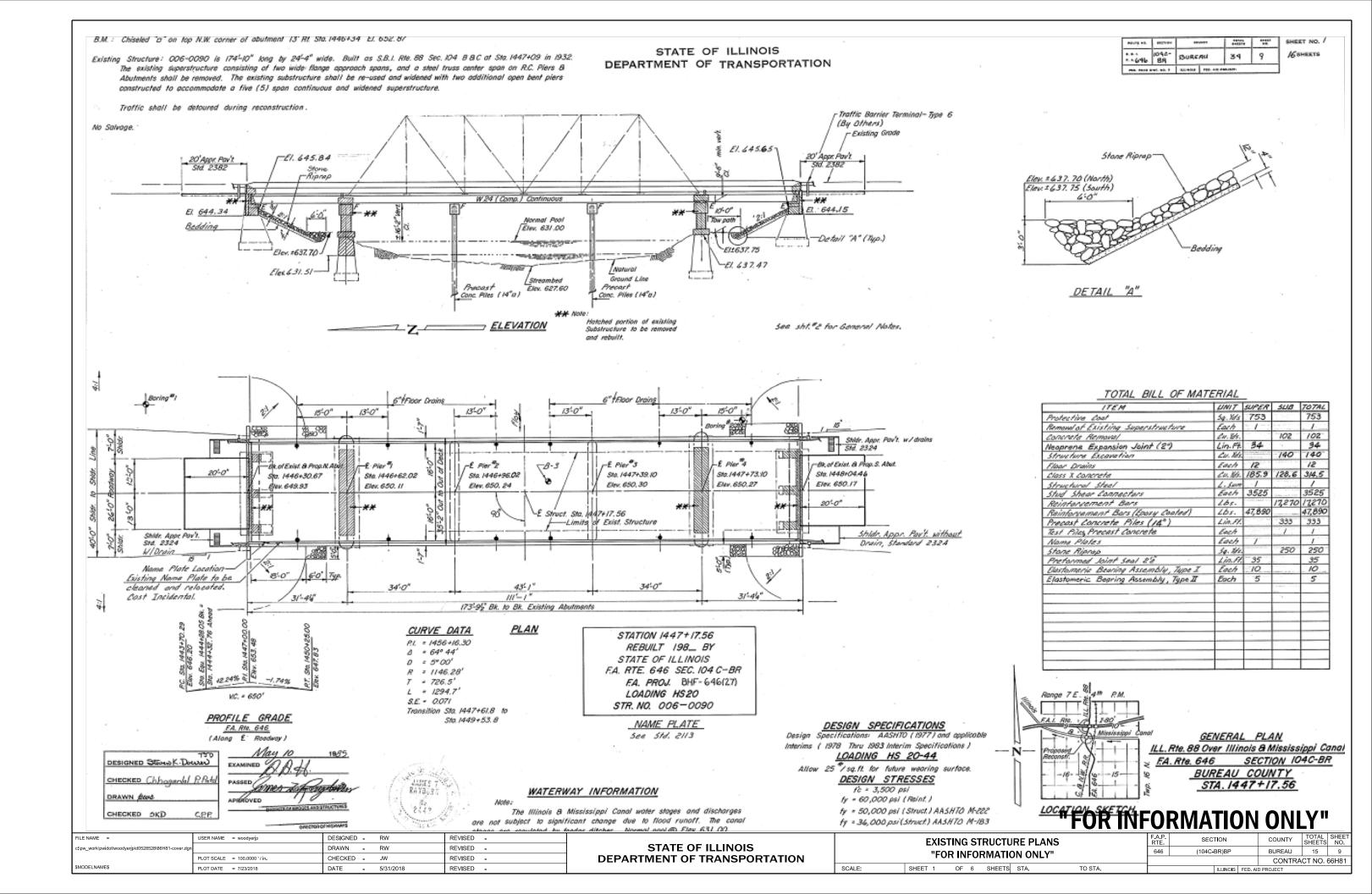
MICROWAVE DETECTOR

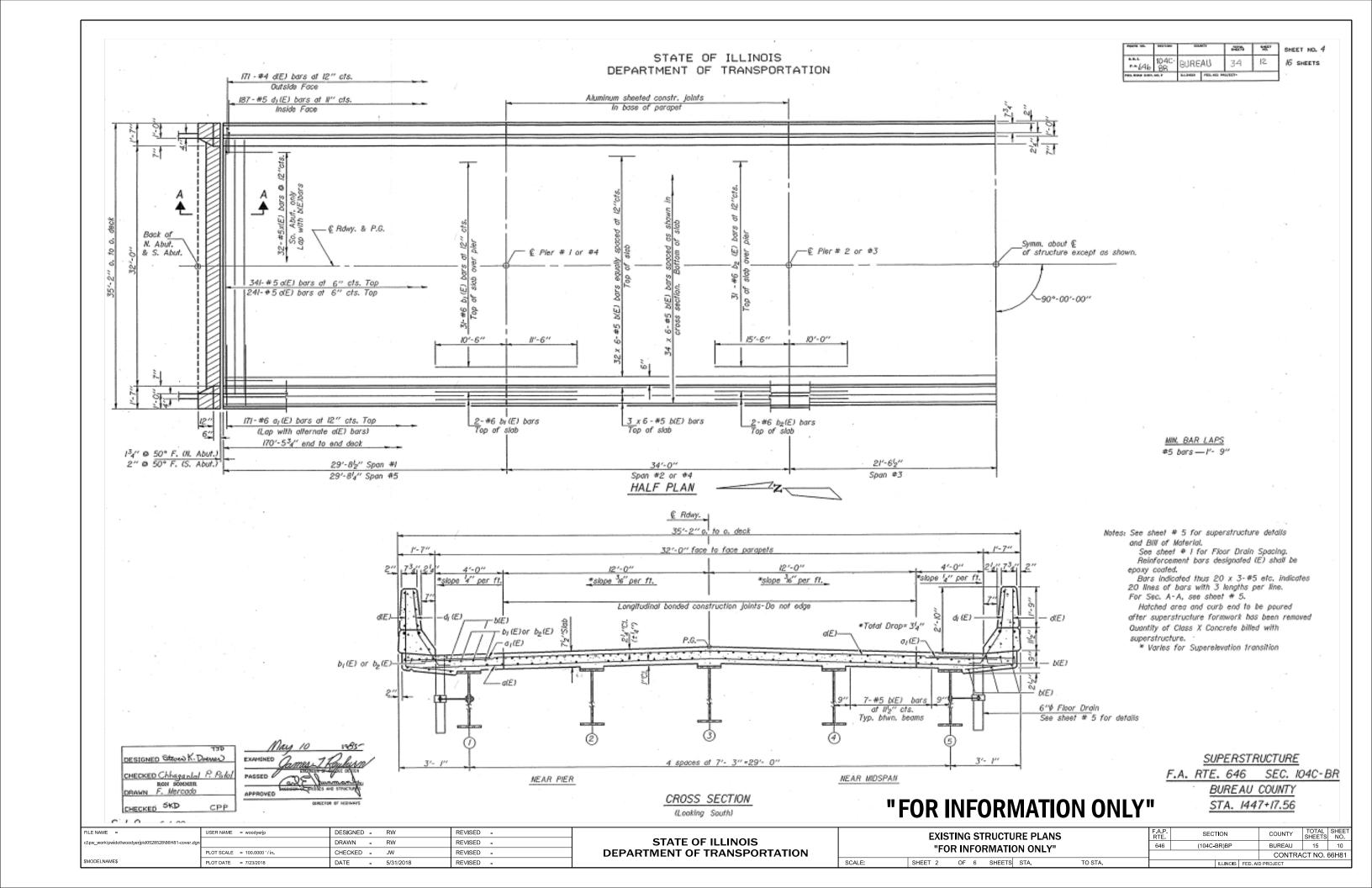
TEMPORARY IMPACT ATTENUATOR (NARROW)

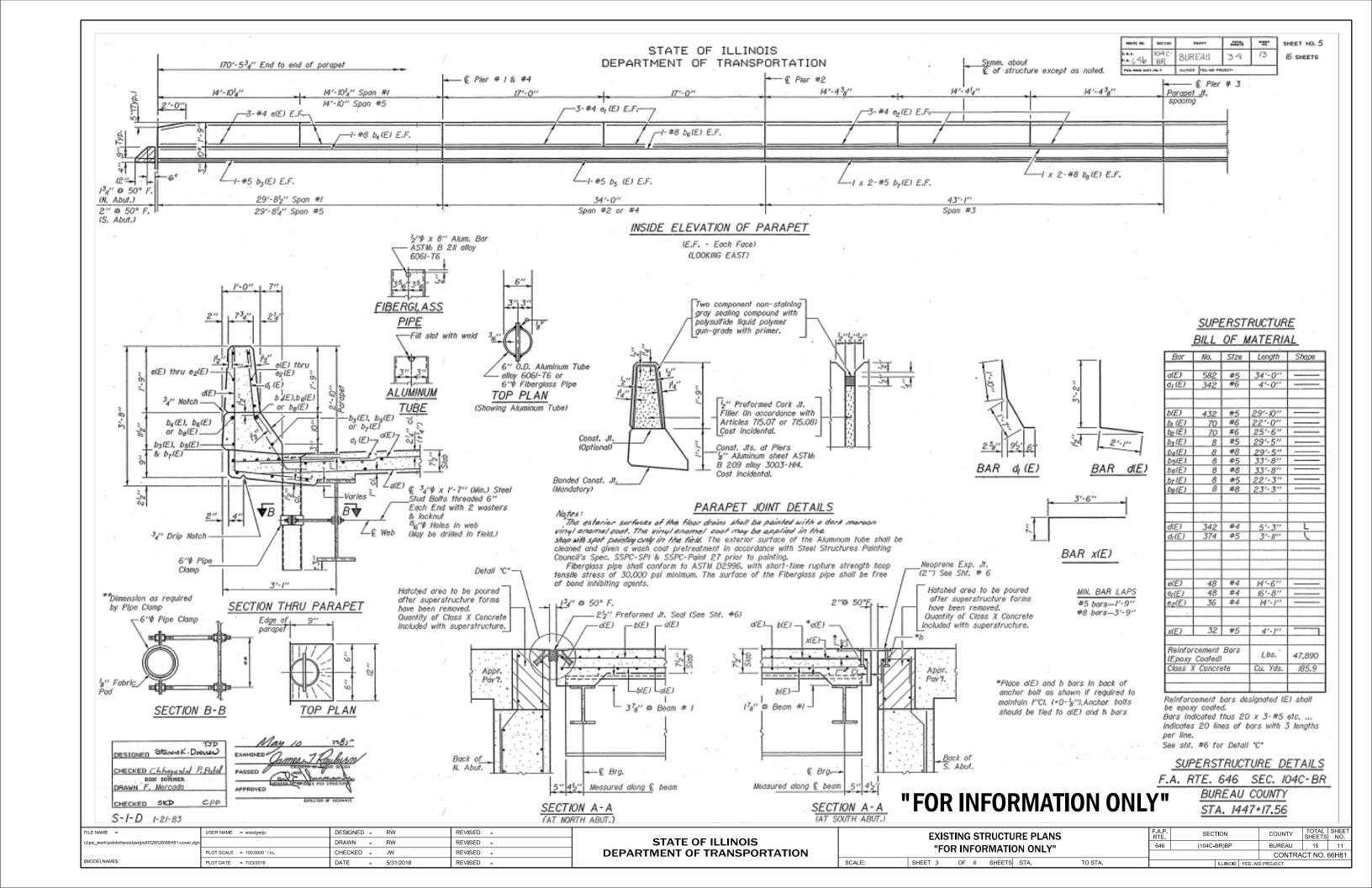
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** 

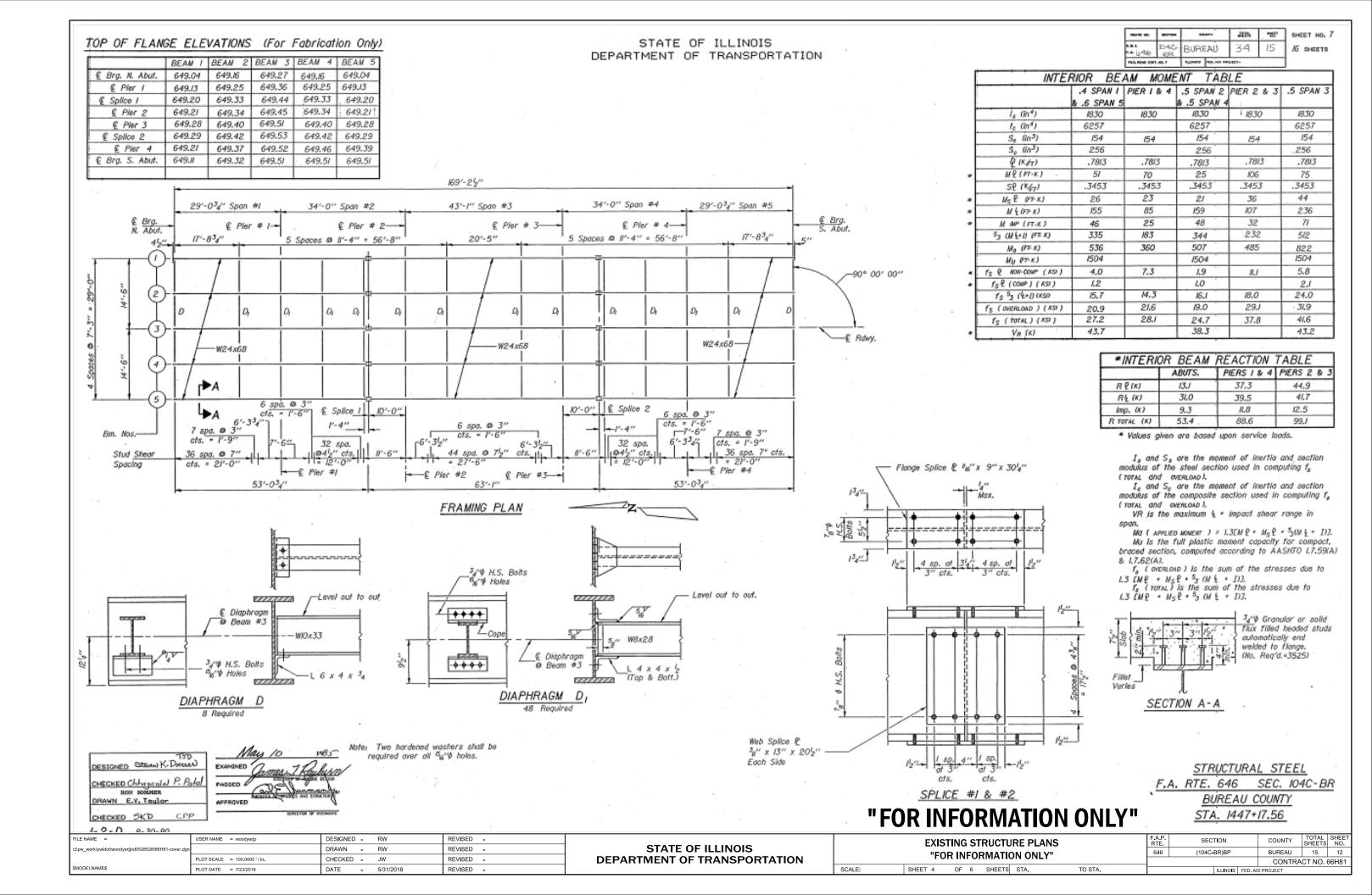
	STAGING DETAILS - STAGE I									COUNTY	TOTAL SHEETS	SHEET NO.
FOR TRAFFI	FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321									BUREAU	15	7
TOR TRAITIC CONTROL AND I ROTECTION, STANDARD TOISZI										CONTRA	ACT NO.	66H81
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.								ILLINOIS	FED All	PROJECT		

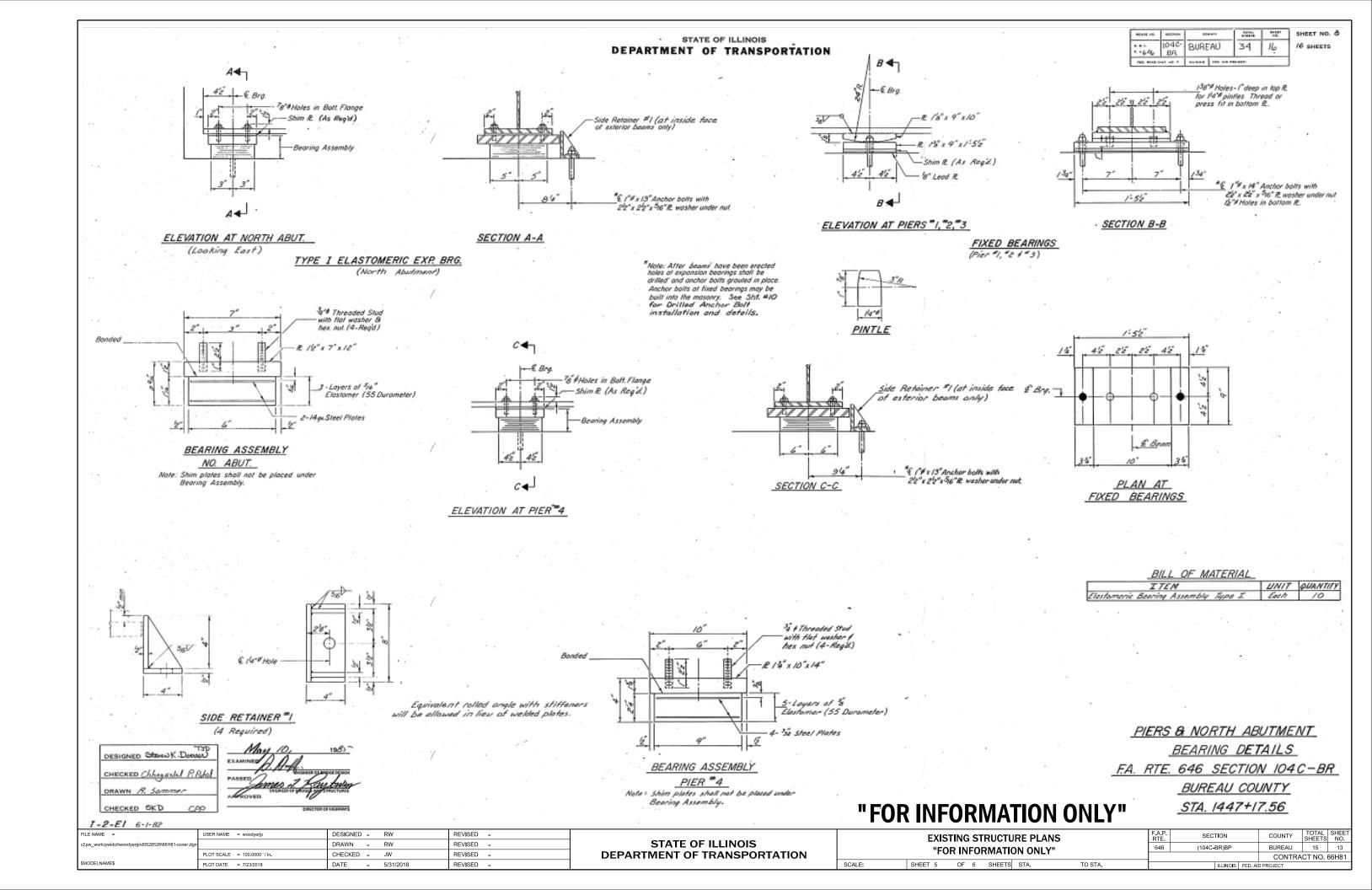


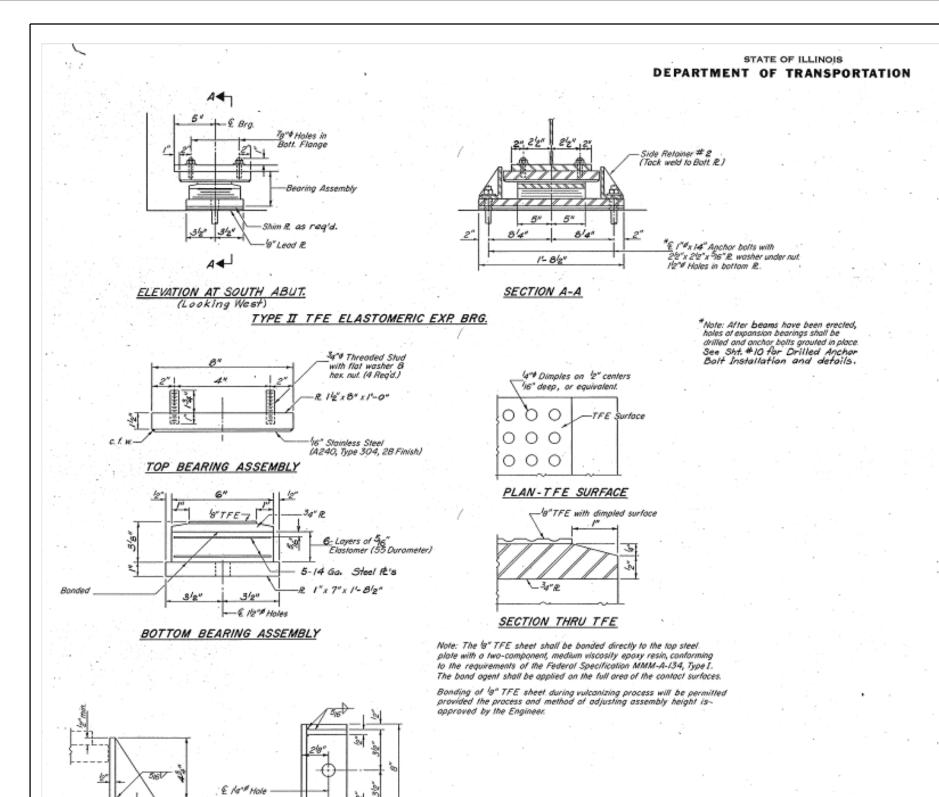












Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

€ Bott. Brg.:

(Move bott brg. away from fixed brg.) (Move bott brg. loward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D = '8" per each IOO' of expansion for every 15\* temp, change from the normal temp, of 50°F.

SIDE RETAINER #2 (10 Required)

DESIGNED Stano K. Dobust

CHECKED Chhaganlal P. R.to

DRAWN E.V. Taylor

CHECKED 6KD

BILL OF MATERIAL

Itam .	Unit	Quantity
Elastameric Bearing Assembly, Type II	Each	5

# "FOR INFORMATION ONLY"

SOUTH ABUTMENT
BEARING DETAILS
F.A. RTE. 646 SEC. 104C-BR
BUREAU COUNTY
57A. 1447+17.56

NOTES SHEET NO. 9

17

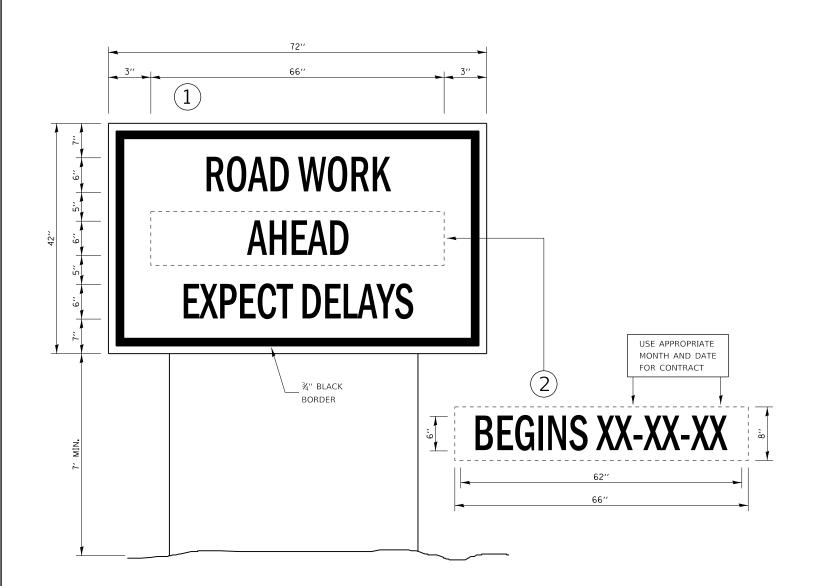
34

BURFAU

16 SHEETS

104C-104C-104C-104C-

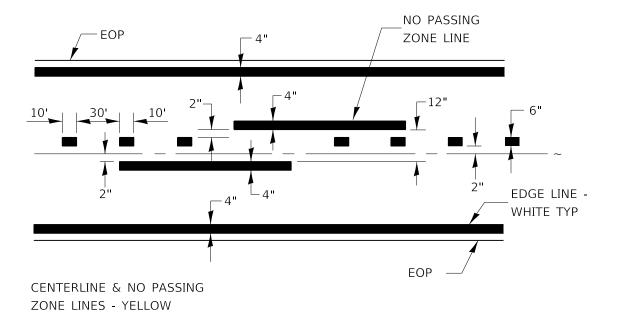
FILE NAME =	USER NAME = woodyerjp	DESIGNED - RW	REVISED -			EXISTING STRUCTU	IRF PLANS		F.A.P. RTF	SECTION	COUNTY	TOTAL S	HEET NO.
c:\pw_work\pwidot\woodyerjp\d0528528\66H81-cover.dgr		DRAWN - RW	REVISED -	STATE OF ILLINOIS	"FOR INFORMATION ONLY"				646	(104C-BR)BP	BUREAU	15	14
	PLOT SCALE = 100.0000 ' / in.	CHECKED - JW	REVISED -	DEPARTMENT OF TRANSPORTATION	FOR INFORMATION UNLY						CONTRA	ACT NO. 66	H81
\$MODELNAME\$	PLOT DATE = 7/23/2018	DATE - 5/31/2018	REVISED -		SCALE:	SHEET 6 OF 6 SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



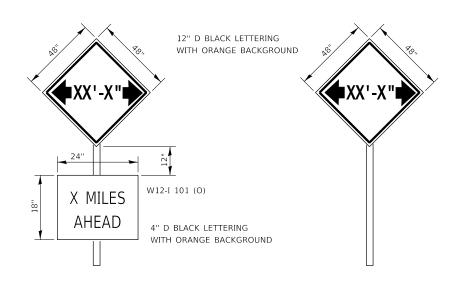
## **TEMPORARY INFORMATION SIGNING**

## NOTES:

- 1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
- ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
- 3.  ${\sf ERECT\ SIGN}$  (1) WITH INSTALLED PANEL (2) A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
- 4. REMOVE PANEL ON THAT DATE.
- 5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING".
  EACH SIGN = 21 SQ FT AND THE DATE PANEL WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.



## **PAVEMENT MARKING**



TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

## WIDTH RESTRICTION SIGNING DETAILS

FILE NAME =	USER NAME = woodyerjp	DESIGNED - RW	REVISED -						F.A.P.	SECTION	COUNTY	TOTAL SH	IEET
c:\pw_work\pwidot\woodyerjp\d0528528\66H81-cover.dgn		DRAWN - RW	REVISED -	STATE OF ILLINOIS		DE	ETAILS		646	(104C-BR)BP	BUREAU	15	15
	PLOT SCALE = 100,0000 '/in.	CHECKED - JW	REVISED -	DEPARTMENT OF TRANSPORTATION					- · · · ·	(1010 211,21	CONTRA	ACT NO. 661	181
\$MODELNAME\$	PLOT DATE = 7/23/2018	DATE - 5/31/2018	REVISED -		SCALE:	SHEET 1 OF 1	SHEETS STA.	TO STA.	l	ILLINOIS FEI	D. AID PROJECT		