# 11-06-2020 LETTING ITEM 026

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FOR LIST OF HIGHWAY STANDARDS. SEE SHEET NO. 2.

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



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# PROPOSED **HIGHWAY PLANS**

FAP ROUTE 332 (IL RTE 1) **OVER PIKE CREEK SECTION 4 BR** PROJECT NO. NHPP-C2A5 (681) STRUCTURE REPLACEMENT **IROQUOIS COUNTY** 

C-93-072-20

PROPOSED STRUCTURE SN 038-0226 THREE SPAN W/15" REINFORCED CONCRETE SLAB DECK ON INTEGRAL ABUTMENTS AND PILE BENT PIERS 91'-0" BK TO BK, AND 35'-2" O TO O DECK. NO SKEW. STA 273 + 22.00 (EXISTING SN 038-0020)

**END IMPROVEMENT** STA 277+50.00

**BEGIN IMPROVEMENT** 

STA 269+00.00

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: BRADLEY DUNCAN, P.E. UNIT CHIEF: DARCY CARPENTER DISTRICT 3 NO. (815) 434-6131 **CONTRACT NO. 66959** 



NOT TO SCALE GROSS LENGTH = 1220.87 FT. = 0.231 MILE NET LENGTH = 850,00 FT. = 0.161 MILE

Hutchison Engineering, Inc Jacksonville - Moline - Peoria - Sharewoo JOB #4389.01



8 6 20

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SUBMITTED AVS. 4+ 14 1/20 20

LOCATION OF SECTION INDICATED THUS: - -

2019 ADT = 2200

**FUNCTIONAL CLASSIFICATION** OTHER PRINCIPAL ARTERIAL

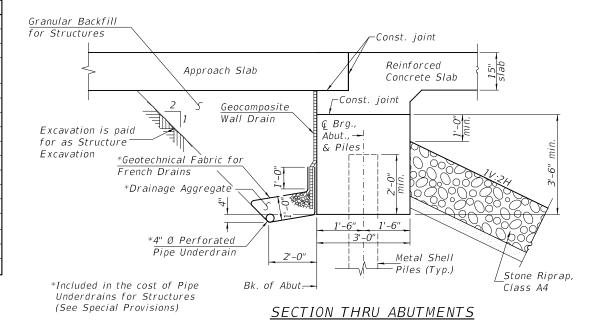
P.U. = 88% S.U. = 7% M.U. = 5%

DESIGN SPEED = 55 MPH

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# INDEX OF SHEETS

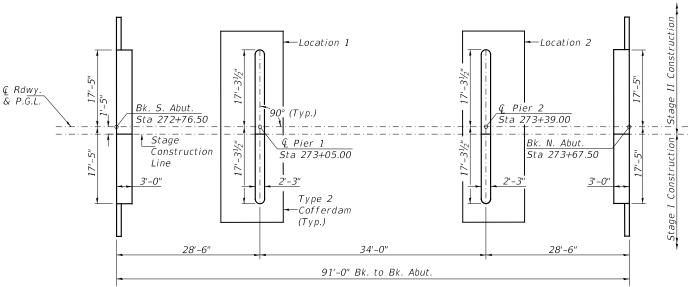
	SH. #	DESCRIPTION	
	1	General Plan & Elevation	
	c 0000	General Data	
$\wedge$		Stage Construction Details	
	4	Temporary Concrete Barrier	
	7	for Stage Construction	
	5	Top of Slab Elevations	
6 - 7 Top of Approach Slab Elevations 8 Superstructure 9 Superstructure Details			
	Superstructure		
9 Superstructure Details			
	10 - 11	Bridge Approach Slab Details	
	12	South Abutment	
	13	North Abutment	
	14	Pier 1	
	15	Pier 2	
	16	Metal Shell Pile Details	
	17	Concrete Parapet Slipforming Option	
	18	Mechanical Splicer/Bar Splicer Details	
	19 - 21	Soil Boring Logs	
,			



# Existing Abut. (T.B.R.) 4' (typ.) 611.22 (P1) 611.23 (P2) 17'-0" Pier #1 Cofferdam 13'-0" Pier #2 Cofferdam 603.9 (P1) 603.9 (P2) COFFERDAM DETAIL

(Pier 1 Shown, Pier 2 mirrored)

# Note: All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



TOTAL BILL OF MATERIAL

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground

The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for

dead load deflection. Forms for deck slab shall be removed prior to

Soil borings indicate hard driving of piles is anticipated. Care shall

Reinforcement bars designated (E) shall be epoxy coated.

be taken to avoid damaging the piles at piers while driving.

conditions in the field as directed by the Engineer.

placement of bridge approach slab.

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	SQ YD		525	525
Filter Fabric	SQ YD		525	525
Removal of Existing Structures	EACH			1
Structure Excavation	CU YD		110	110
Cofferdam Excavation	CU YD		260	260
Cofferdam (Type 2) (Location-1)	EACH		1	1
Cofferdam (Type 2) (Location-2)	EACH		1	1
Concrete Structures	CU YD		139.6	139.6
Concrete Superstructure	CU YD	181.1		181.1
Bridge Deck Grooving	SQ YD	497		497
Protective Coat	SQ YD	643		643
Concrete Superstructure (Approach Slab)	CU YD	94.8		94.8
Reinforcement Bars, Epoxy Coated	POUND	110,280	13,660	123,940
Bar Splicers	EACH	636	96	772
Furnishing Metal Shell Piles 14"x0.312"	F00T		895	895
Driving Piles	FOOT		895	895
Test Pile Metal Shells	EACH		4	4
Name Plates	EACH	1		1
Temporary Sheet Piling	SQ FT		606	606
Pile Shoes	EACH		12	12
Granular Backfill for Structures	CU YD		75	75
Geocomposite Wall Drain	SQ YD		35	35
Pipe Underdrains for Structures 4"	F00T		102	102

Hutchison Engineering, Inc.

Since 1945

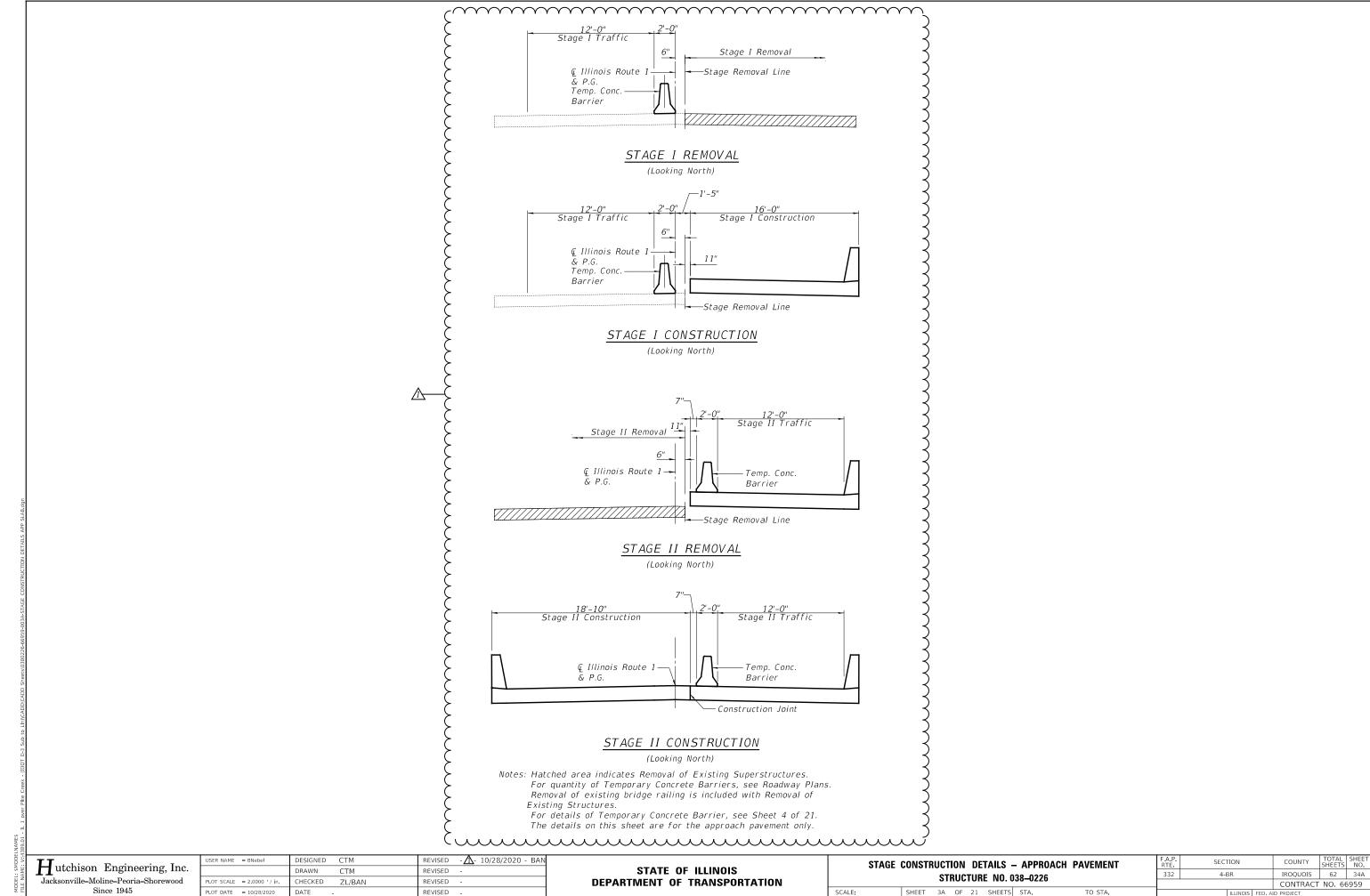
USER NAME = BNebel	DESIGNED CTM	REVISED - <u>↑</u> - 10/28/2020 - BA
	DRAWN CTM	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED ZL/BAN	REVISED -
PLOT DATE = 10/28/2020	DATE -	REVISED -

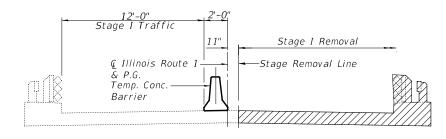
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE:

FOOTING LAYOUT

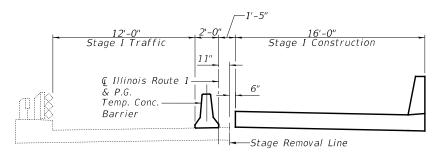
GENERAL DATA Structure no. 038–0226			F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
			332	4-BR	IROQUOIS	62	33	
			CONT			NO. 66	5959	
SHEET	2 OF 21 SHEETS	STA	TO STA		TILLINOIS FED A	ID PROJECT		





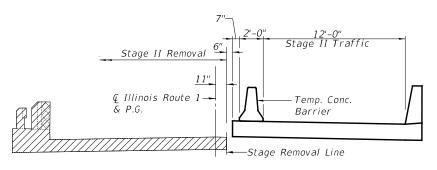
# STAGE I REMOVAL

(Looking North)



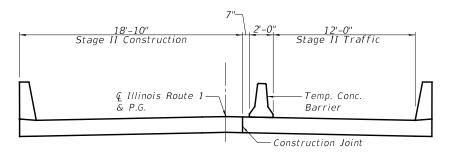
# STAGE I CONSTRUCTION

(Looking North)



# STAGE II REMOVAL

(Looking North)



# STAGE II CONSTRUCTION

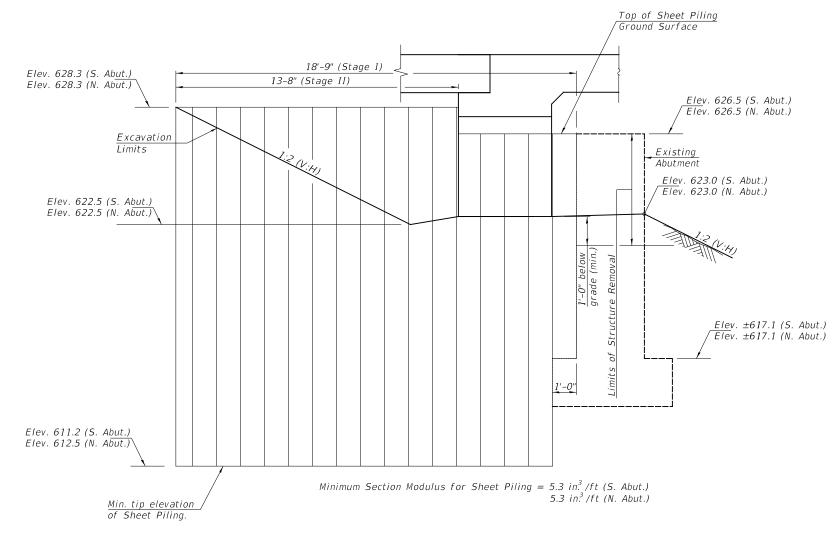
(Looking North)

Notes: Hatched area indicates Removal of Existing Structures

For quantity of Temporary Concrete Barriers, see Roadway Plans.

Removal of existing bridge railing is included with Removal of Existing Structures.

For details of Temporary Concrete Barrier, see Sheet 4 of 21.



## TEMPORARY SHEET PILING AT ABUTMENTS

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans. a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

Hutchison Engineering, Inc.
Jacksonville-Moline-Peoria-Shorewood
Since 1945

 USER NAME
 = BNebel
 DESIGNED
 CTM
 REVISED
 - ⚠ 10/28/2020 - BAN

 DRAWN
 CTM
 REVISED

 PLOT SCALE
 = 2.0000 ' / in.
 CHECKED
 ZL/BAN
 REVISED

 PLOT DATE
 = 10/28/2020
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: