

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	161Y-R-BR	COOK	29	1
		ILLINOIS	CONTRACT NO. 62A23	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

F.A.P. ROUTE 876 – IL 1 (HALSTED ST)  
OVER BUTTERFIELD CREEK (SN 016-2409)  
SECTION 161Y-R-BR  
BRIDGE REPAIRS, BRIDGE JOINT REPAIRS  
COOK COUNTY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED IN THE VILLAGES OF  
GLENWOOD AND HOMEWOOD.

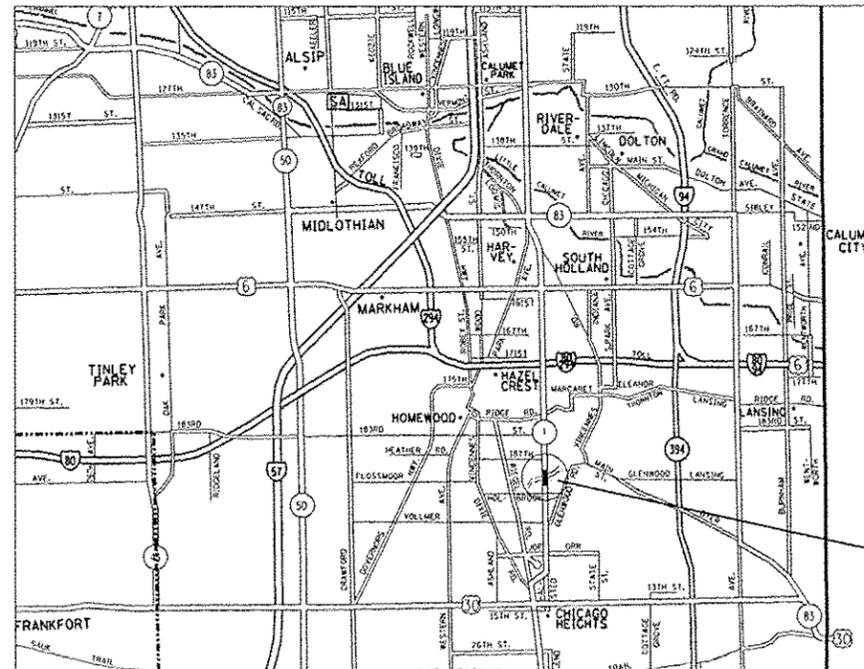
D-91-106-15



TRAFFIC DATA  
2013 ADT = 23,500  
SPEED LIMIT = 45 MPH

C-91-106-15

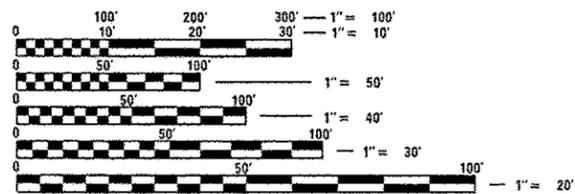
R 14 E



T 35 N

BLOOM TOWNSHIP

GROSS LENGTH = NET LENGTH = 172 FT. = 0.033 MILE



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

IMPROVEMENT LOCATION  
SN 016-2409

PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056  
PROJECT MANAGER: ISSAM RAYYAN (847) 705-4178

CONTRACT NO. 62A23

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED February 4, 2015

*John F. Tolman*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Mar 20, 2015  
*John D. Baranzelli* P.E.  
ENGINEER OF DESIGN AND ENVIRONMENT

Mar 20, 2015  
*Omer Esman* P.E.  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS

**INDEX OF SHEETS**

- 1. COVER SHEET
- 2. INDEX, STATE STANDARDS, & GENERAL NOTES
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- 5-9. SUGGESTED STAGES OF CONSTRUCTION
- 10-21. SN 016-2409 REPAIR DETAILS
- 22. PAVEMENT MARKING DETAILS
- 23. TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
- 24. TYPICAL APPLICATIONS FOR RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
- 25. DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
- 26. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
- 27. PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
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- 29. DRIVEWAY ENTRANCE SIGNING (TC-26)

**STATE STANDARDS**

- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 643001-02 SAND MODULE IMPACT ATTENUATORS
- 701423-08 LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS > 45 MPH TO 55 MPH
- 701801-05 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-04 TRAFFIC CONTROL DEVICES
- 704001-07 TEMPORARY CONCRETE BARRIER

**GENERAL NOTES**

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGES OF GLENWOOD AND HOMEWOOD.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE ENGINEER SHALL CONTACT MS. PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER AT (708) 597-9800, A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A 404 PERMIT. IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING AN USACE 404 PERMIT IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER USACE PERMITS.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS @ Ndes	
<b>PAVEMENT RESURFACING</b>		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL9.5 MM)	4% AT 70 Gyr.	OC/QA
QMP Designation: Quality Control/Quality Assurance (OC/QA)		

**NOTES:**

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SOYD/IN.

THE "AC TYPE" FOR POLYMERIZED LEVELING BINDER IL-4.75 MIXTURE SHALL BE "SBS/SBR PG 76-22," FOR POLYMERIZED HMA SURFACE COURSE, MIX F, N90 MIXTURE SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

FILE NAME: c:\pwork\p1dot\dahharr\0419032\011015-1h1-gennote.dgn	USER NAME: dahharr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES IL ROUTE 1 (HALSTED ST.) OVER BUTTERFIELD CREEK</b>	F.A.P. RTE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE: 100.0000' / 1" =	DRAWN -	REVISED -			876	161Y-R-BR	COOK	29	2	
	PLOT DATE: 2/13/2015	CHECKED -	REVISED -			CONTRACT NO. 62A23					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE: NONE	SHEET	OF	SHEETS	STA.	TO STA.	

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN 0014 100% STATE			
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	277	277			
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	52	52			
42001300	PROTECTIVE COAT	SQ YD	796	796			
50102400	CONCRETE REMOVAL	CU YD	25.7	25.7			
50300255	CONCRETE SUPERSTRUCTURE	CU YD	69	69			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	10520	10520			
50800515	BAR SPLICERS	EACH	88	88			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6			
67100100	MOBILIZATION	L SUM	1	1			
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1	1			
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2603	2603			
70400100	TEMPORARY CONCRETE BARRIER	FOOT	350	350			
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	312.5	312.5			
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2			

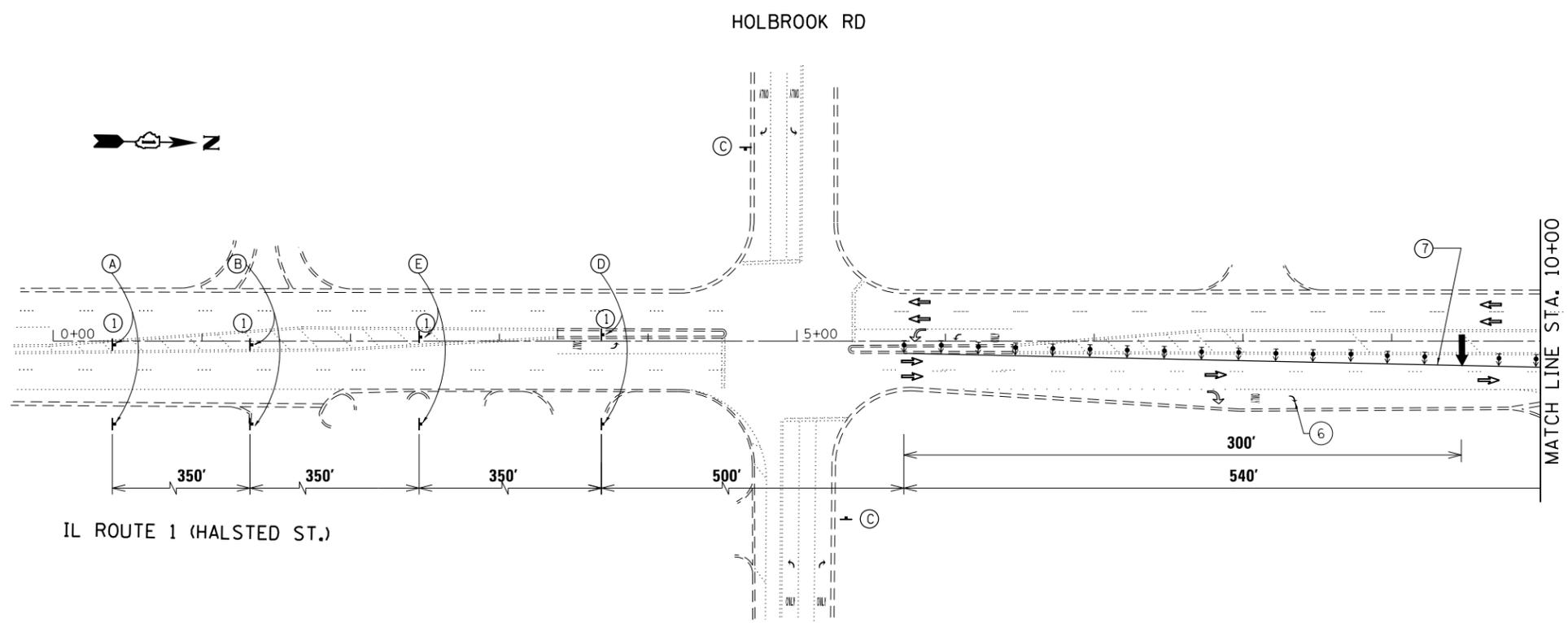
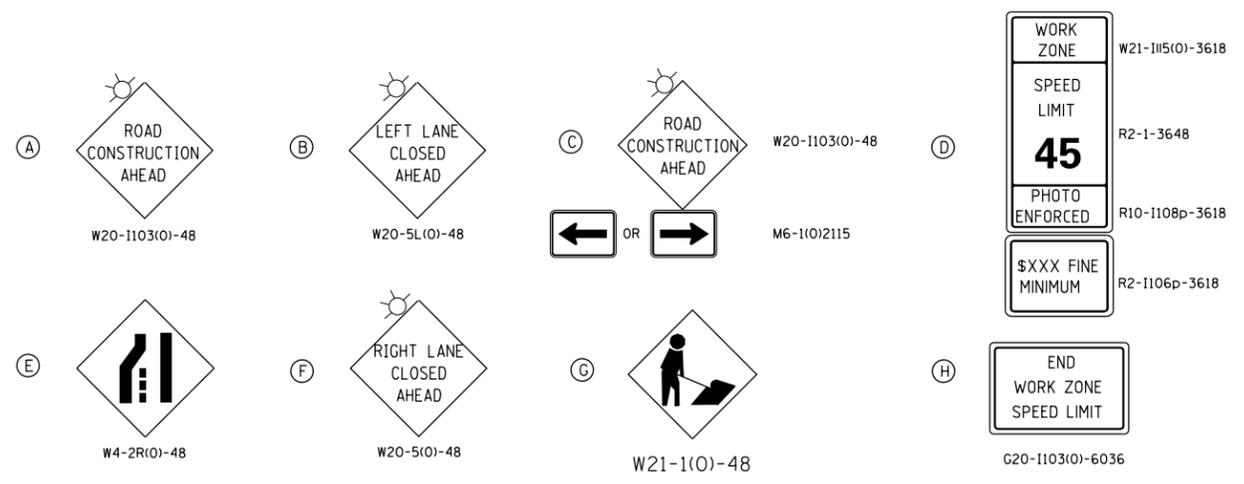
SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	URBAN 0014 100% STATE			
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2			
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	36.3	36.3			
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6980	6980			
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	348	348			
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	342	342			
78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	36.3	36.3			
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	297	297			
78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	66	66			
78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	10	10			
78200530	BARRIER WALL MARKERS, TYPE C	EACH	32	32			
78300100	PAVEMENT MARKING REMOVAL	SQ FT	3058	3058			

FILE NAME :	USER NAME :	DESIGNED :	REVISED :	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 1 (HALSTED ST.) OVER BUTTERFIELD CREEK SUMMARY OF QUANTITIES</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Plot Scale = 400,000' / 1" =	CHECKED :	REVISED :	876			161Y-R-BR	COOK	29	3	
Plot Date = 2/17/2015	DATE :	REVISED :	CONTRACT NO. 62A23							
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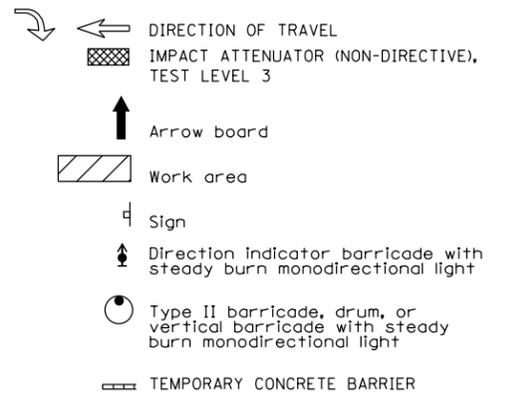




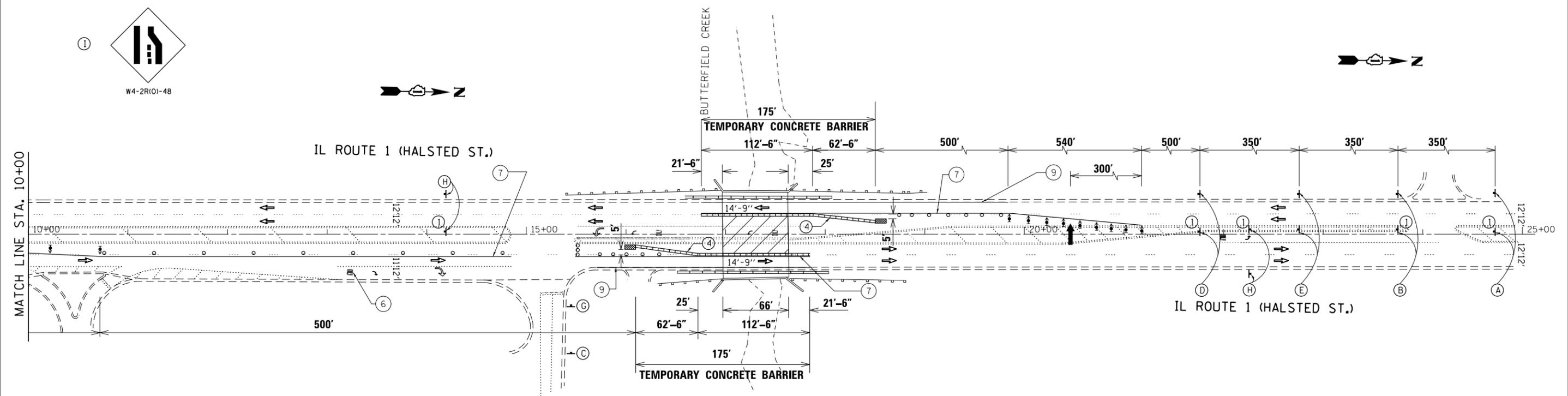
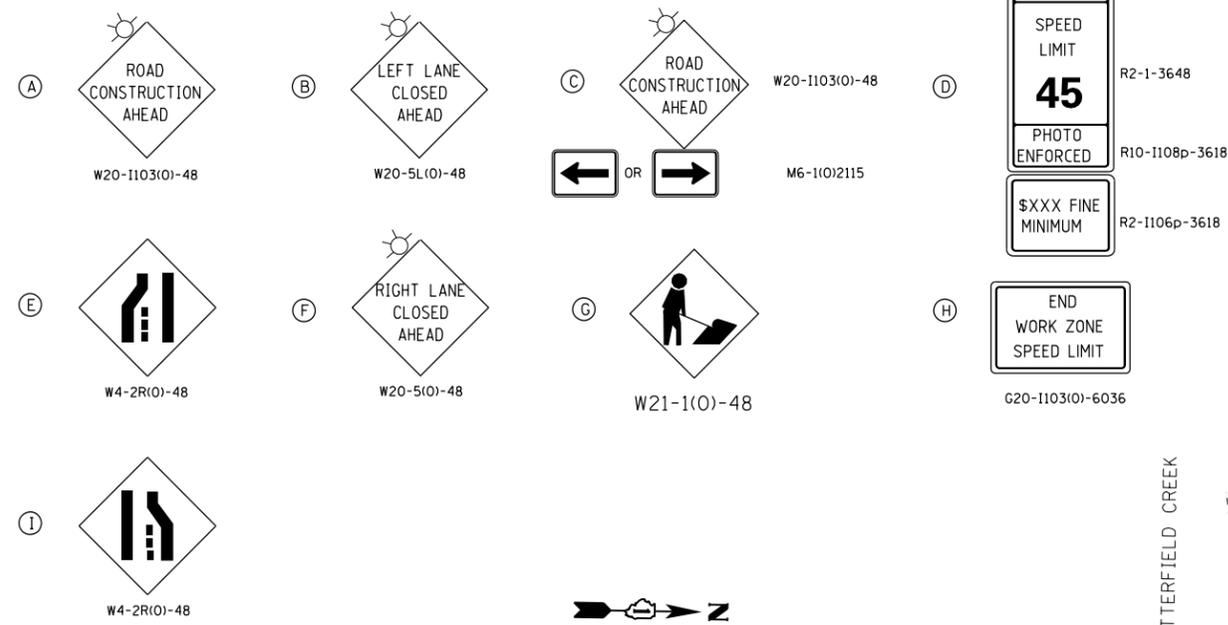
**NOTES:**

- ① SIGNS IN MEDIAN MAY BE OMITTED WHEN MEDIAN IS LESS THAN 10'
- ② FLAGGER SIGNS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED SPACING BETWEEN THE SIGN AND EACH SEPARATE WORK ACTIVITY.
- ③ THREE TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 50' (15 M) CENTERS.
- ④ TEMPORARY CONCRETE BARRICADES WILL BE TAPERED AT 12:1
- ⑤ WET REFLECTIVE PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND ALONG-SIDE THE WORK AREA. THE RIGHT EDGE LINE SHALL BE WHITE AND THE LEFT EDGE LINE SHALL BE YELLOW.
- ⑥ WET REFLECTIVE TEMPORARY TAPE, TYPE III - LETTERS AND SYMBOLS
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- ⑧ WET REFLECTIVE TEMPORARY TAPE, TYPE III- 4" DOUBLE YELLOW
- ⑨ WET REFLECTIVE TEMPORARY TAPE, TYPE III - 4" WHITE
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- ⑪ WET REFLECTIVE TEMPORARY TAPE, TYPE III - 24" WHITE

**LEGEND**

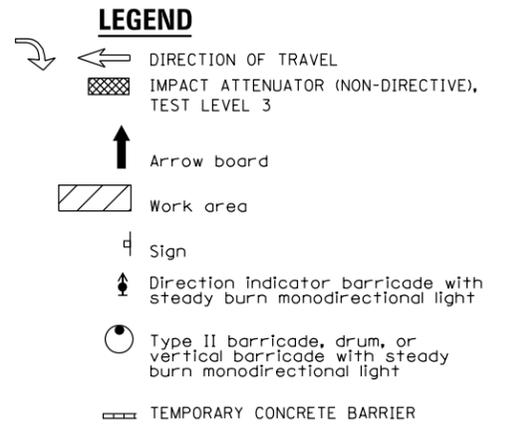


FILE NAME =	USER NAME = dahhnr	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>STAGE I IL ROUTE 1 (HALSTED ST.) OVER BUTTERFIELD CREEK</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

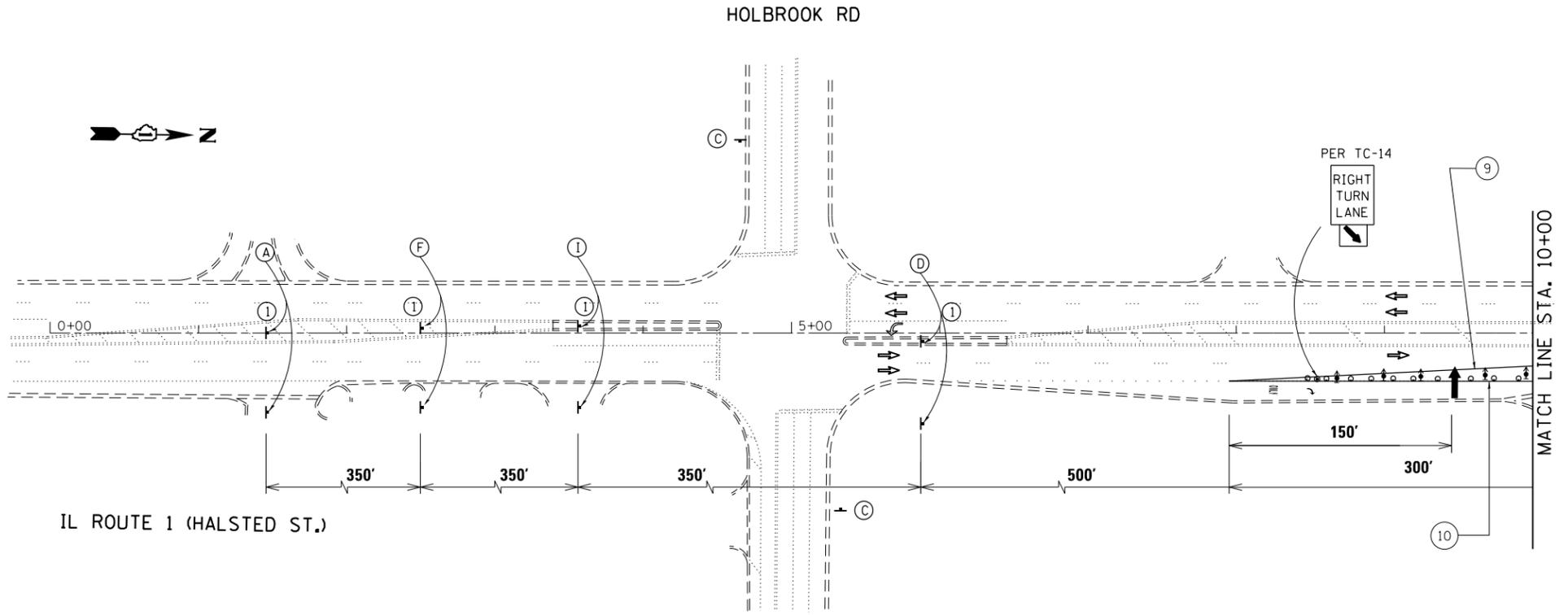
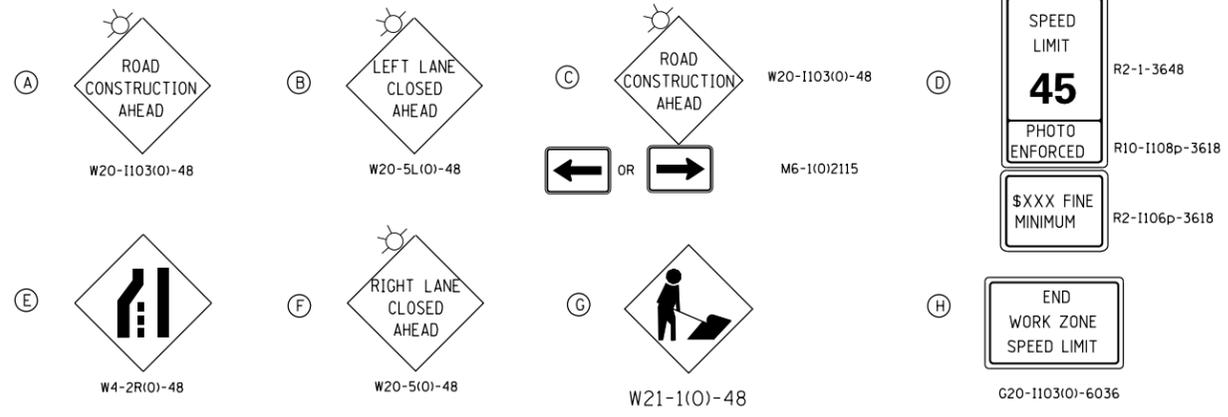


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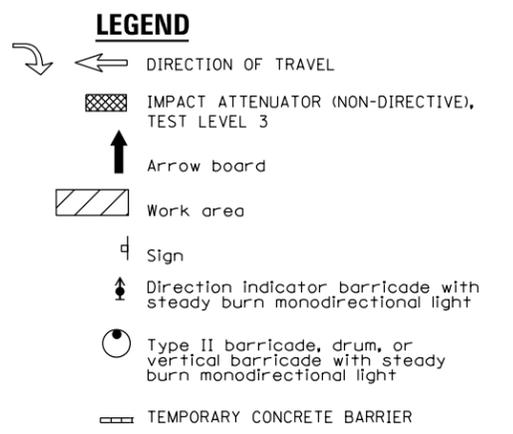


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	PLOT DATE = 2/13/2015	DATE -	REVISED -									ILLINOIS FED. AID PROJECT				

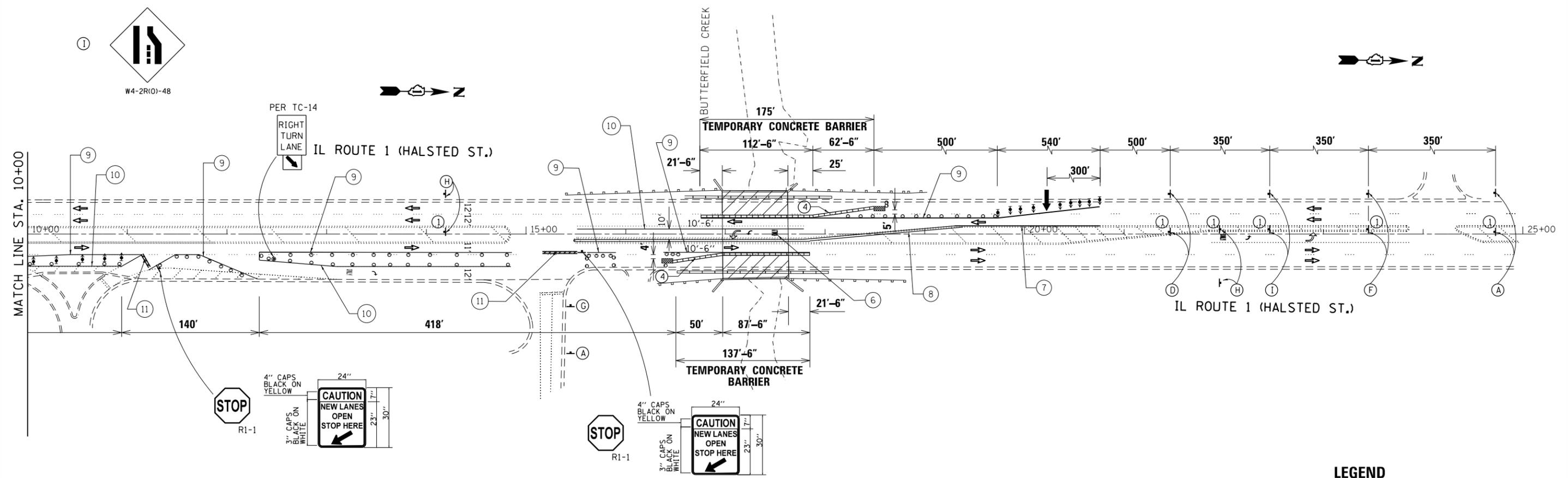
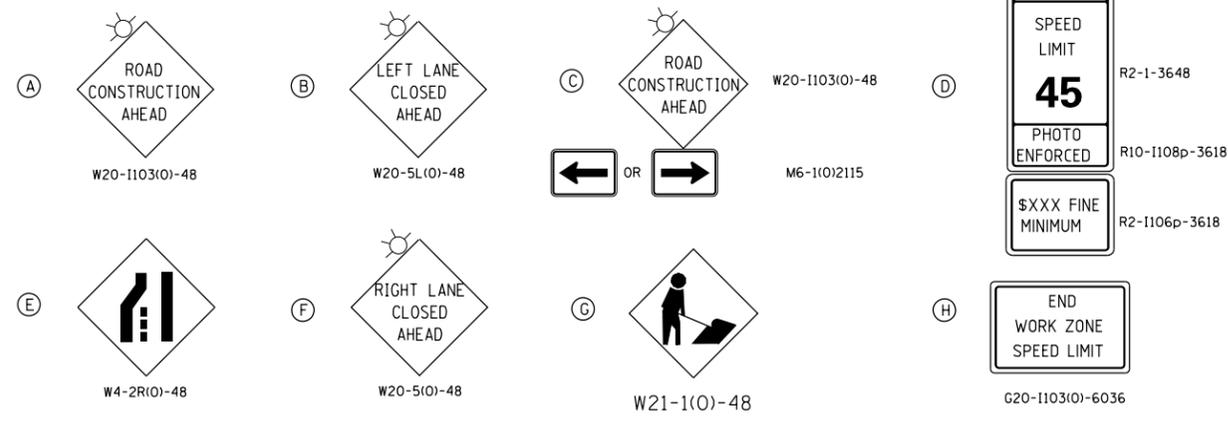


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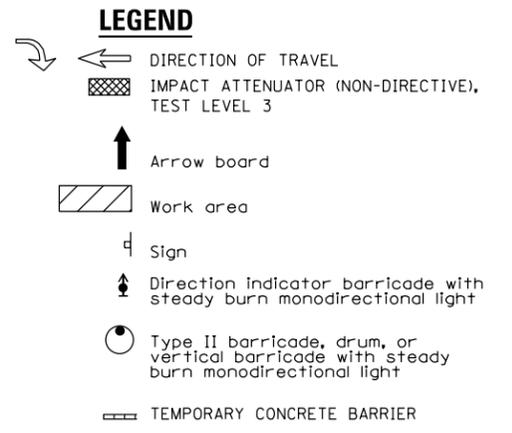


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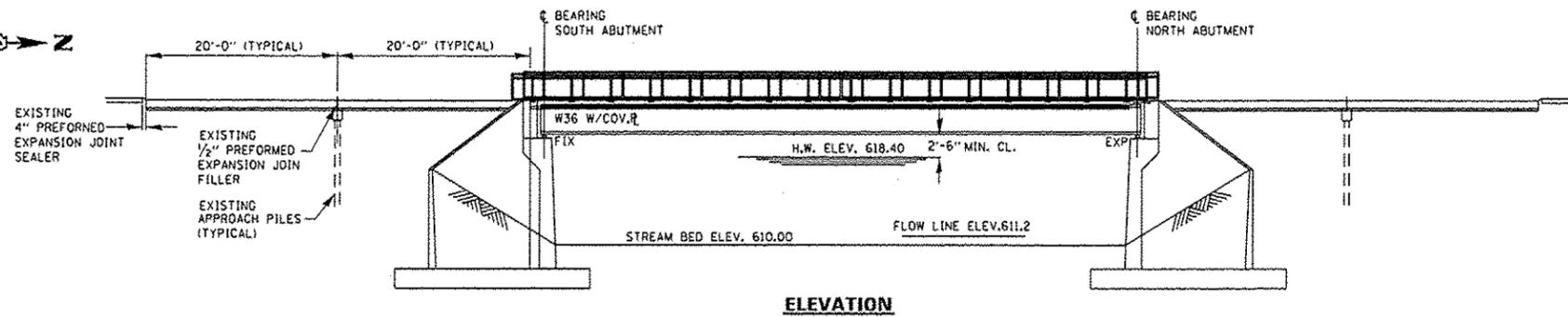


**NOTES:**

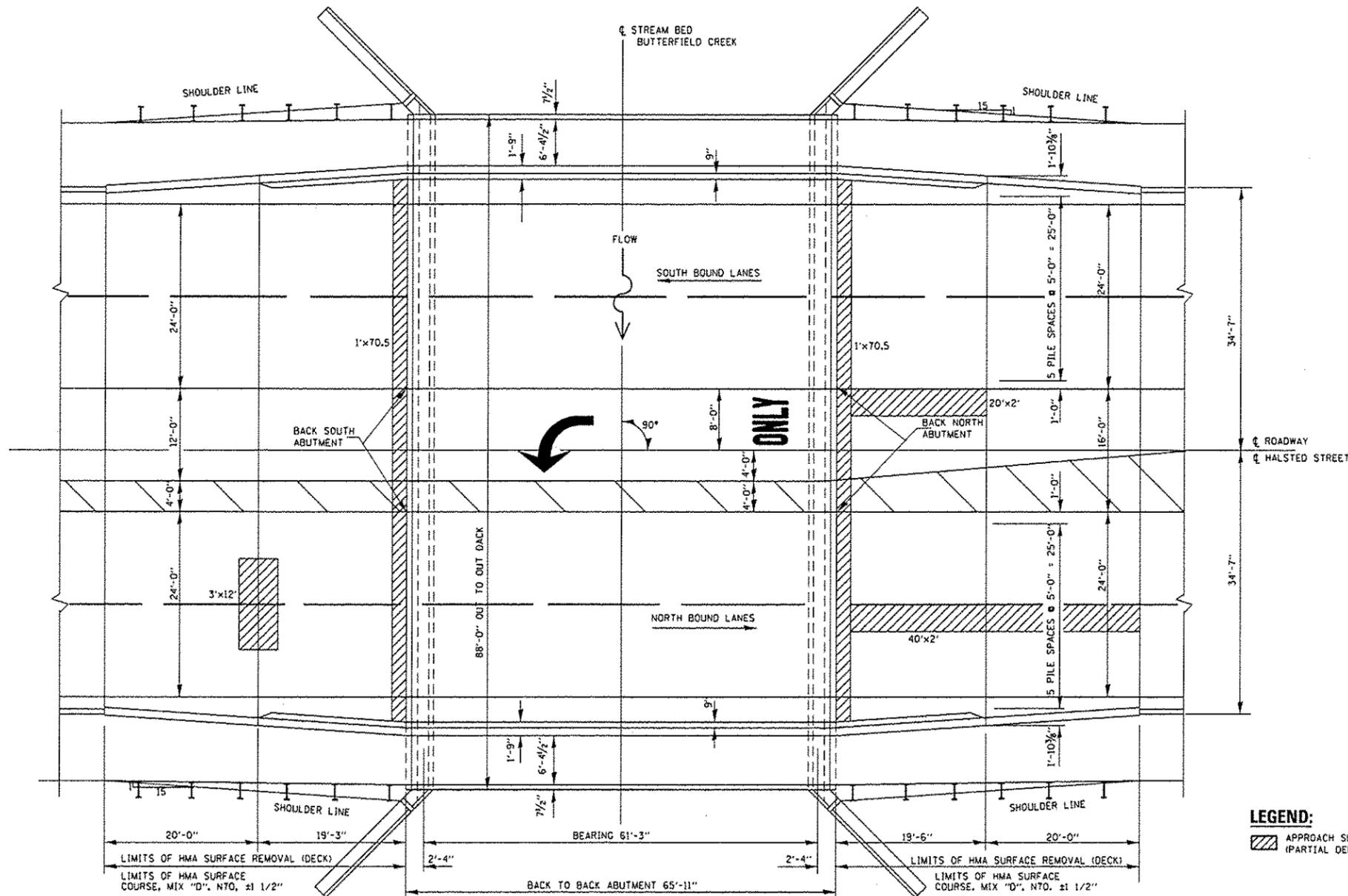
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Default	es:\pwork\pwork\dahhanr\d0419032\0110685-sht-staging1.dgn	DRAWN -	REVISED -		876	161Y-R-BR	COOK	29	9			
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		CONTRACT NO. 62A23							
	PLOT DATE = 2/13/2015	DATE -	REVISED -		SCALE: 1" = 50'	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT



**ELEVATION**



**PLAN**

**GENERAL NOTES:**

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENT 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 BASED AT THE UNIT PRICE BID FOR THE WORK.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

NO INSTREAM WORK ALLOWED

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 SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACES IN CONTACT WITH CONCRETE. TIGHTLY ADHERED PAINT MAY REMAIN UNLESS OTHERWISE NOTED. REMOVAL SHALL BE ACCOMPLISHED BY METHODS THAT WILL NOT DAMAGE THE STEEL AND THE COST WILL BE INCLUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

THE DECK SURFACE SHALL HAVE ITS FINAL FINISH TINED ACCORDING TO ARTICLE 420.09 (b)(1) OF THE STANDARD SPECIFICATIONS. COST INCLUDED WITH CONCRETE SUPERSTRUCTURES.

IF THE ANALYSIS SUBMITTED TO THE CONTRACTOR FOR THE JACKING/TEMPORARY SUPPORT SYSTEM TO BE USED SHOWS TEMPORARY STIFFENERS ARE REQUIRED TO PREVENT WEB CRIPPLING OR BUCKING, THE STIFFENERS SHALL BE STEEL AND BOLTED TO THE WEB. IF STIFFENERS ARE NOT REQUIRED, HARDWOOD TIMBERS SHALL BE INSTALLED TIGHTLY BETWEEN THE TOP AND BOTTOM FLANGE TO PREVENT FLANGE ROTATION.

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.



*David Carl Puzey 3/5/15  
Expires 11/30/16*

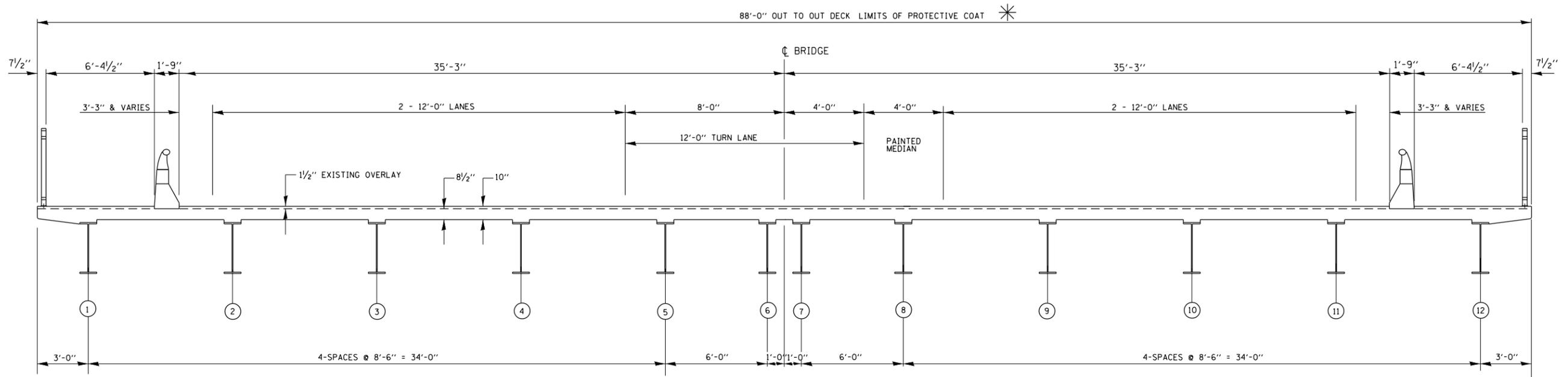
**TOTAL BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH < 5")	SQ.FT.	172
STRUCTURAL REPAIR OF CONCRETE (DEPTH > 5")	SQ.FT.	17.8
TEMPORARY SHORING AND CRIBBING	EACH	2
PROTECTIVE COAT	SQ.YD.	796
CONCRETE REMOVAL	CU.YD.	25.7
CONCRETE SUPERSTRUCTURE	CU.YD.	69
REINFORCEMENT BARS (EPOXY COATED)	LBS	10,520
APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ.YD.	33
HMA SURFACE REMOVAL (DECK)	SQ.YD.	614
BAR SPLICERS	EACH	88

**LEGEND:**

APPROACH SLAB REPAIR (PARTIAL DEPTH)

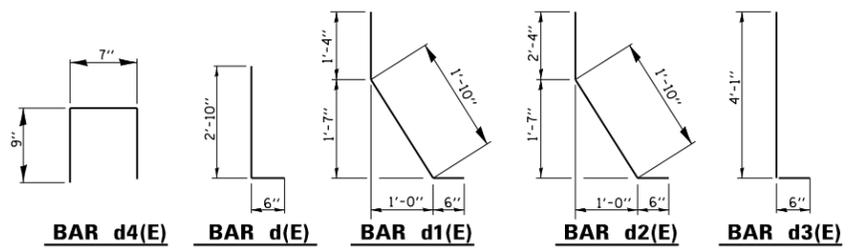
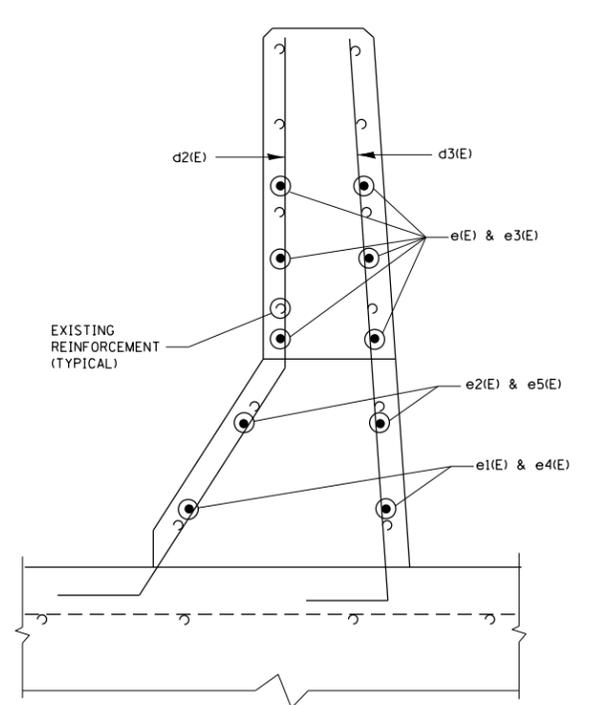
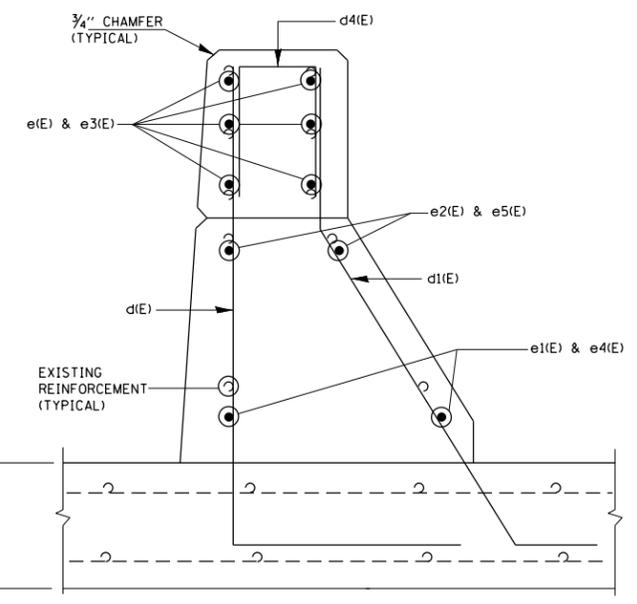
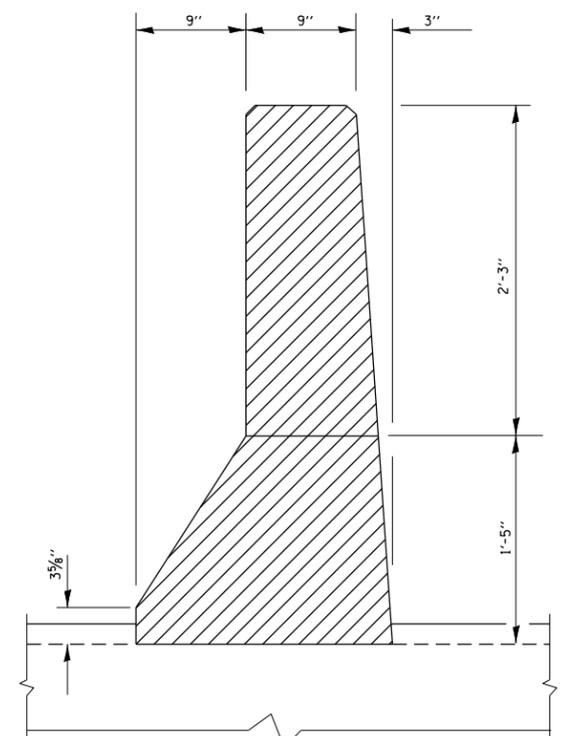
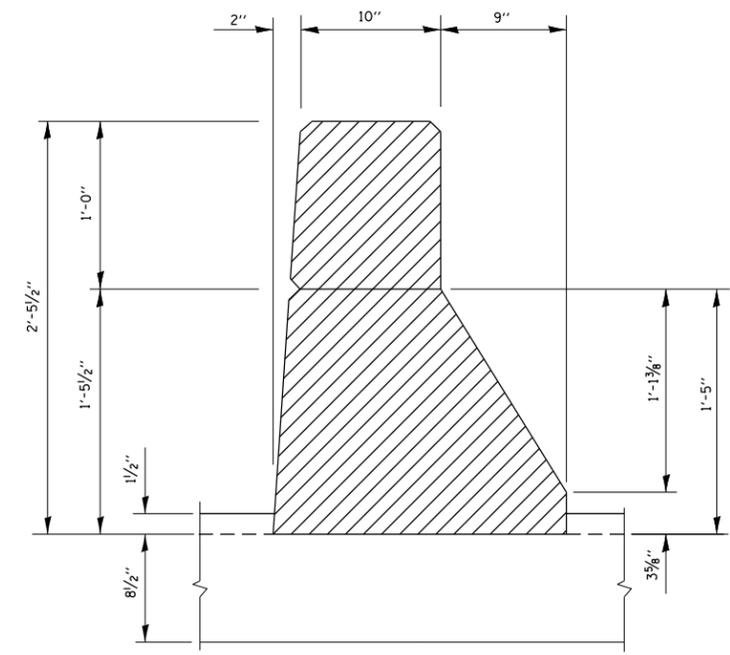
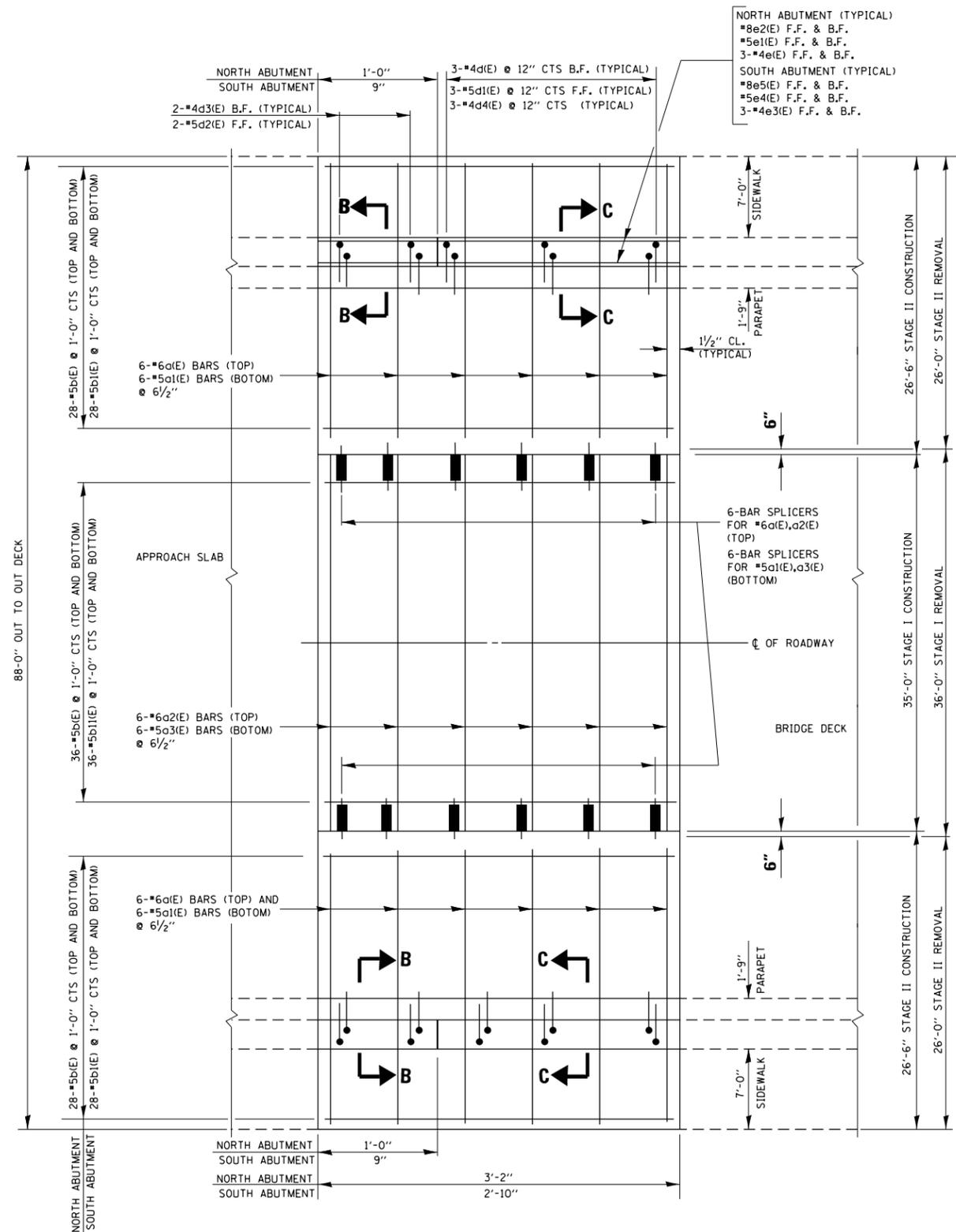
FILE NAME :	USER NAME : daherr	DESIGNED - MVT	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 1 (HALSTED STREET) OVER BUTTERFIELD CREEK GENERAL PLAN AND ELEVATION S.N. 016-2409</b>			F.A.P. NO. 876	SECTION 161Y-R-BR	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 10
Default	Plot SCALE = 1/8" = 1'-0"	CHECKED - RTB	REVISED -		SCALE:	SHEET 1 OF 12 SHEETS	STA. TO STA.	CONTRACT NO. 62A23				
	PLT DATE = 2/13/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



**CROSS SECTION  
(LOOKING NORTH)**

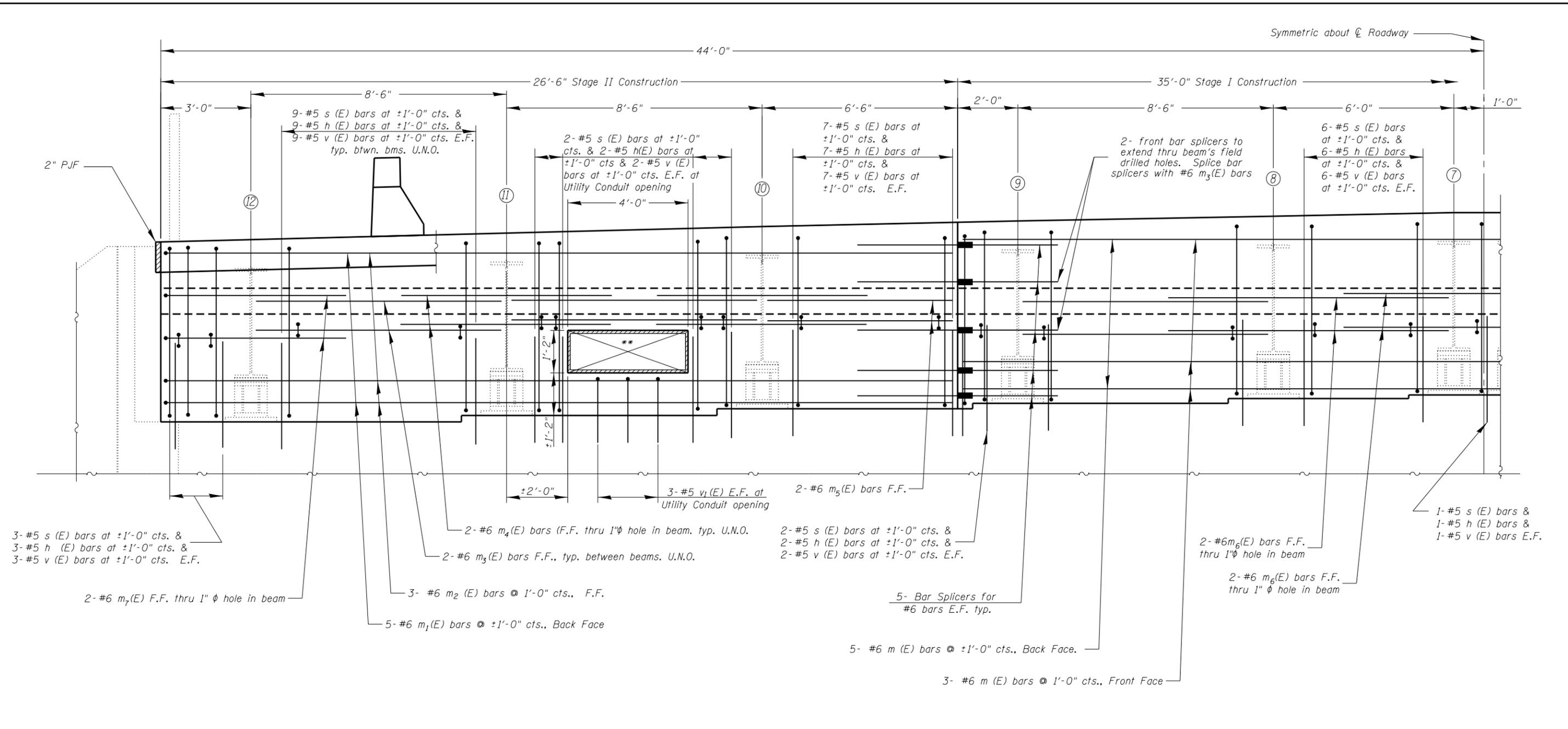
\* PROTECTIVE COAT SHALL BE APPLIED TO BRIDGE DECK (INCLUDING SIDEWALK AREA). PROTECTIVE COAT SHALL ALSO BE APPLIED TO ENTIRE SURFACE OF PARAPET ON THE BRIDGE DECK AND ON THE APPROACH PAVEMENT.

FILE NAME =	USER NAME = dahhnr	DESIGNED - MVT	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 1 (HALSTED STREET) OVER BUTTERFIELD CREEK CROSS SECTION S.N. 016-2409</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
et:\pw\work\p\dot\dahhnr\0101671\016-2409.dgn		DRAWN - MVT	REVISED -		SCALE:	SHEET 2	OF 12 SHEETS	STA.	TO STA.	876	161Y-R-BR	COOK	29	11
Default	PLOT SCALE = 100.0000' / in.	CHECKED - RTB	REVISED -		CONTRACT NO. 62A23									
	PLOT DATE = 2/13/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT									



**LEGEND:**  
 CONCRETE REMOVAL

FILE NAME =	USER NAME = dahhnr	DESIGNED - MVT	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL 1 (HALSTED STREET) OVER BUTTERFIELD CREEK TRANSVERSE JOINT PLAN NORTH AND SOUTH ABUTMENTS S.N. 016-2409</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	Plot Scale = 100.0000' / in.	DRAWN - MVT	REVISED -			876	161Y-R-BR	COOK	29	12	
	PLOT DATE = 2/13/2015	CHECKED - RTB	REVISED -			CONTRACT NO. 62A23					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



**DIAPHRAGM ELEVATION AT SOUTH ABUTMENT  
NORTH ABUTMENT SIMILAR**

**Notes:**  
 Reinforcement bars in diaphragm are billed with superstructure on sheet 5 of 12.  
 Concrete in diaphragm is included with Concrete Superstructure on sheet 5 of 12.  
 For details of bars s(E) & s<sub>1</sub>(E) & v<sub>1</sub>(E) see sheet 5 of 12.  
 The s(E) and s<sub>1</sub>(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.  
 Epoxy grout #5 v (E) & v<sub>1</sub>(E) & h (E) bars in 7/8" φ drilled holes. See Art. 584 Std. Specs. Cost included with Reinforcement Bars, Epoxy Coated.  
 Secure bars thru 1" φ hole in beam such that they remain centered and level during pouring of the concrete.

\*\* Utility Conduit formed opening in concrete between beams 10 and 11 S. Abutment and between beams 2 and 3 N. Abutment. wrap with 1" P.J.F.

**MIN. BAR LAP**  
 #6 bar = 3'-4"

DESIGNED -	EXAMINED	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN -	PASSED	REVISED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 1 (HALSTED STREET) OVER BUTTERFIELD CREEK  
S.N. 016-2409**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	161Y-R-BR	COOK	29	13
CONTRACT NO. 62A23				

SHEET NO. 4 OF 12 SHEETS

ILLINOIS FED. AID PROJECT

\* Epoxy grout #5 v(E) bars in 7/8"  $\phi$  drilled holes. See Art. 584 Std. Specs. Cost included with Reinforcement Bars, Epoxy Coated

**LEGEND**

 Hatched area indicated Concrete Removal. Perimeters of Concrete Removal areas shall be saw cut 3/4" prior to the removal of the concrete. Existing reinforcement extending into removed area shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal

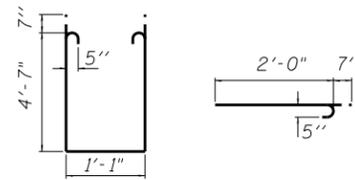
 Approach Slab Repair (Partial Depth)

**SUPERSTRUCTURE  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d(E)	24	#6	26'-3"	—
d <sub>1</sub> (E)	24	#5	26'-3"	—
d <sub>2</sub> (E)	12	#6	34'-9"	—
d <sub>3</sub> (E)	12	#5	34'-9"	—
b(E)	184	#5	2'-11"	—
b <sub>1</sub> (E)	184	#5	2'-7"	—
d(E)	12	#4	3'-4"	L
d <sub>1</sub> (E)	12	#5	3'-5"	L
d <sub>2</sub> (E)	8	#5	4'-8"	L
d <sub>3</sub> (E)	8	#4	4'-7"	L
d <sub>4</sub> (E)	12	#5	2'-1"	—
e(E)	12	#4	2'-11"	—
e <sub>1</sub> (E)	4	#5	2'-11"	—
e <sub>2</sub> (E)	4	#8	2'-11"	—
e <sub>3</sub> (E)	12	#4	2'-7"	—
e <sub>4</sub> (E)	4	#5	2'-7"	—
e <sub>5</sub> (E)	4	#8	2'-7"	—
h(E)	172	#5	2'-7"	—
m(E)	16	#6	34'-9"	—
m <sub>1</sub> (E)	20	#6	27'-0"	—
m <sub>2</sub> (E)	12	#6	26'-11"	—
m <sub>3</sub> (E)	24	#6	8'-2"	—
m <sub>4</sub> (E)	16	#6	7'-0"	—
m <sub>5</sub> (E)	8	#6	6'-2"	—
m <sub>6</sub> (E)	12	#6	9'-4"	—
m <sub>7</sub> (E)	8	#6	7'-0"	—
s(E)	172	#5	11'-5"	—
v(E)	344	#5	2'-11"	—
v <sub>1</sub> (E)	12	#5	3'-0"	—
Concrete Removal		Cu. Yd.	25.7	
Reinforcement Bars, Epoxy Coated		Pound	10,520	
Concrete Superstructure		Cu. Yds.	69.0	
Protective Coat		Sq. Yds.	796	

Bars indicated thus 1 x -#5 etc. indicates 1 line of bars with lengths per line.

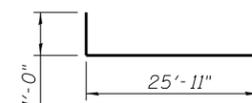
For details of Bar Splicers, see sheet 10 of 12.



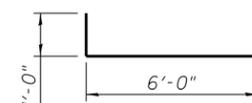
**BAR s (E)    BAR h (E)**



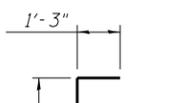
**BAR m<sub>1</sub> (E)**



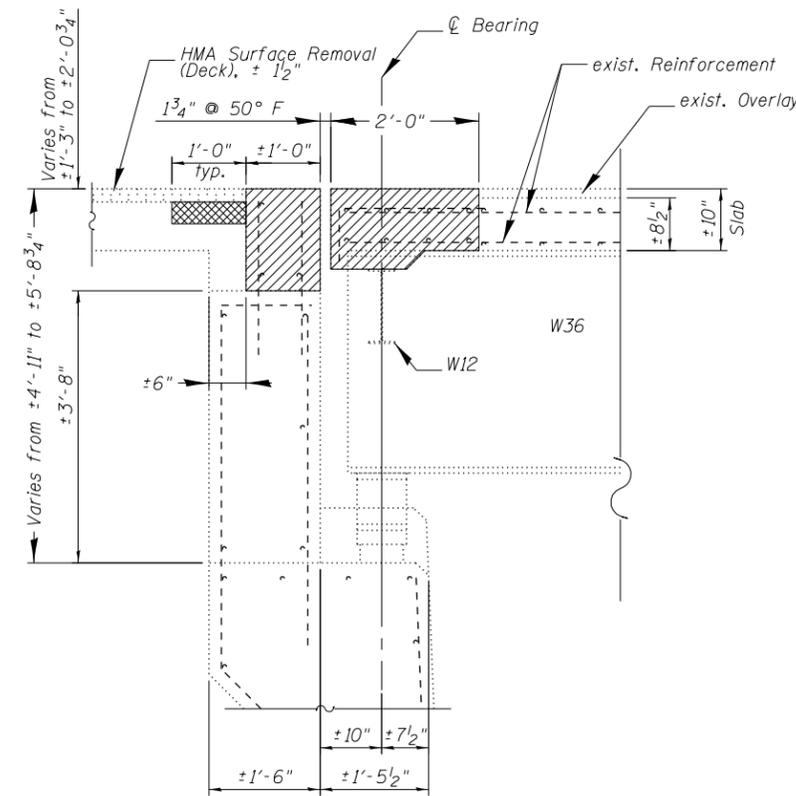
**BAR m<sub>2</sub> (E)**



**BAR m<sub>7</sub> (E)**

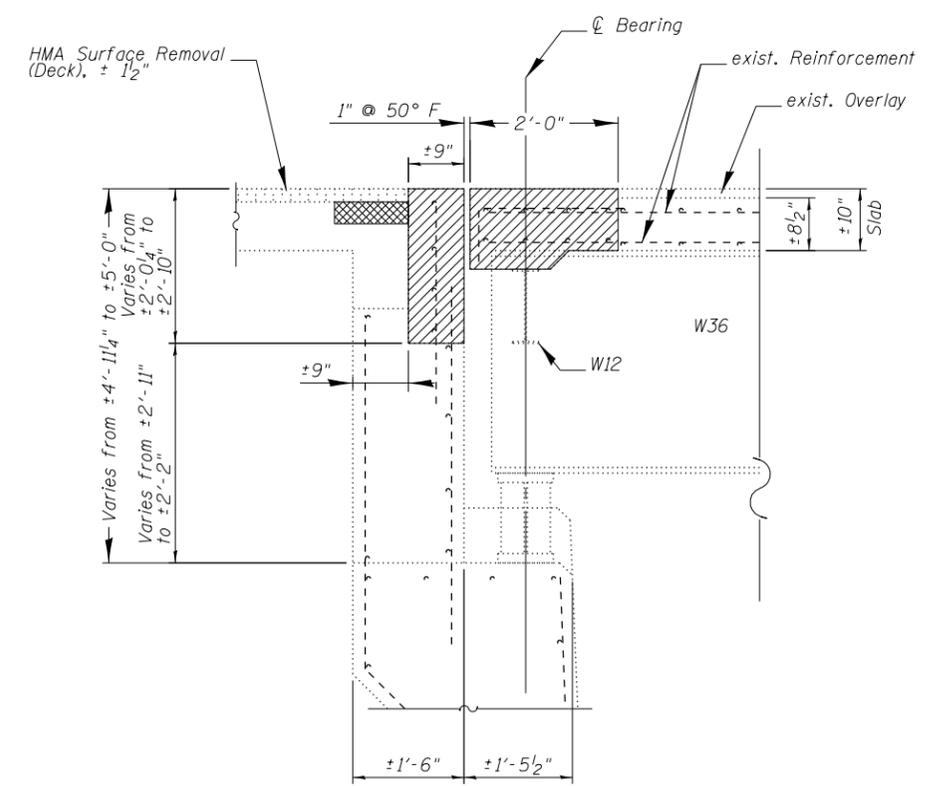


**BAR v<sub>1</sub> (E)**



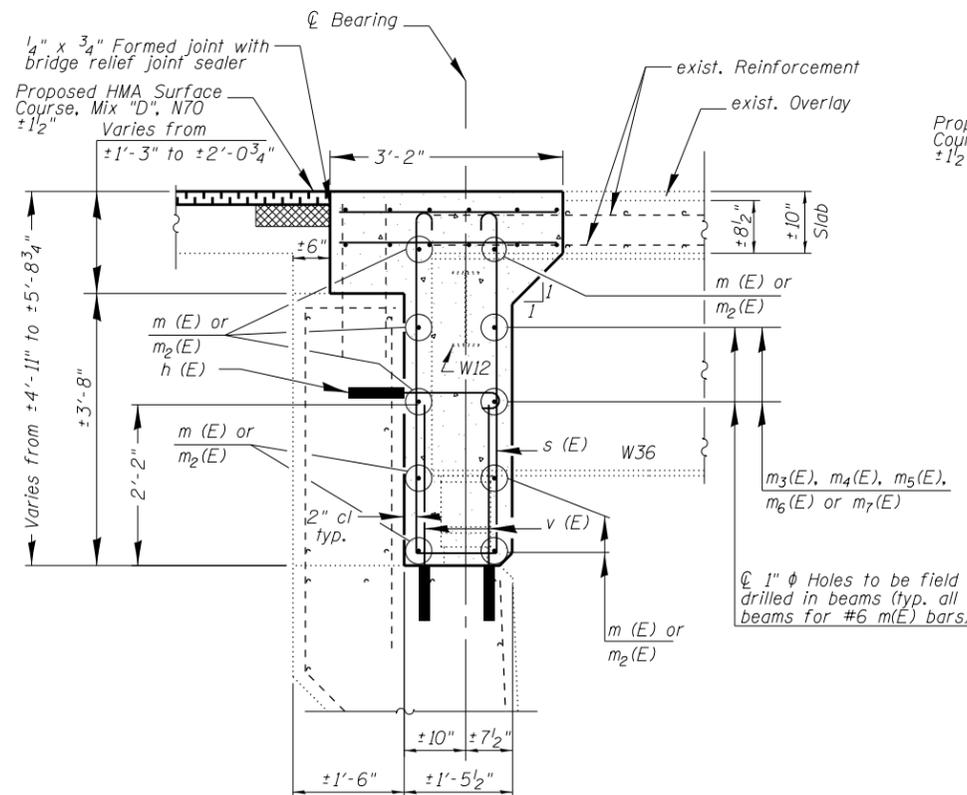
**SECTION A-A (NORTH ABUTMENT)**

Dimensions at right angles to abutment, except as shown.



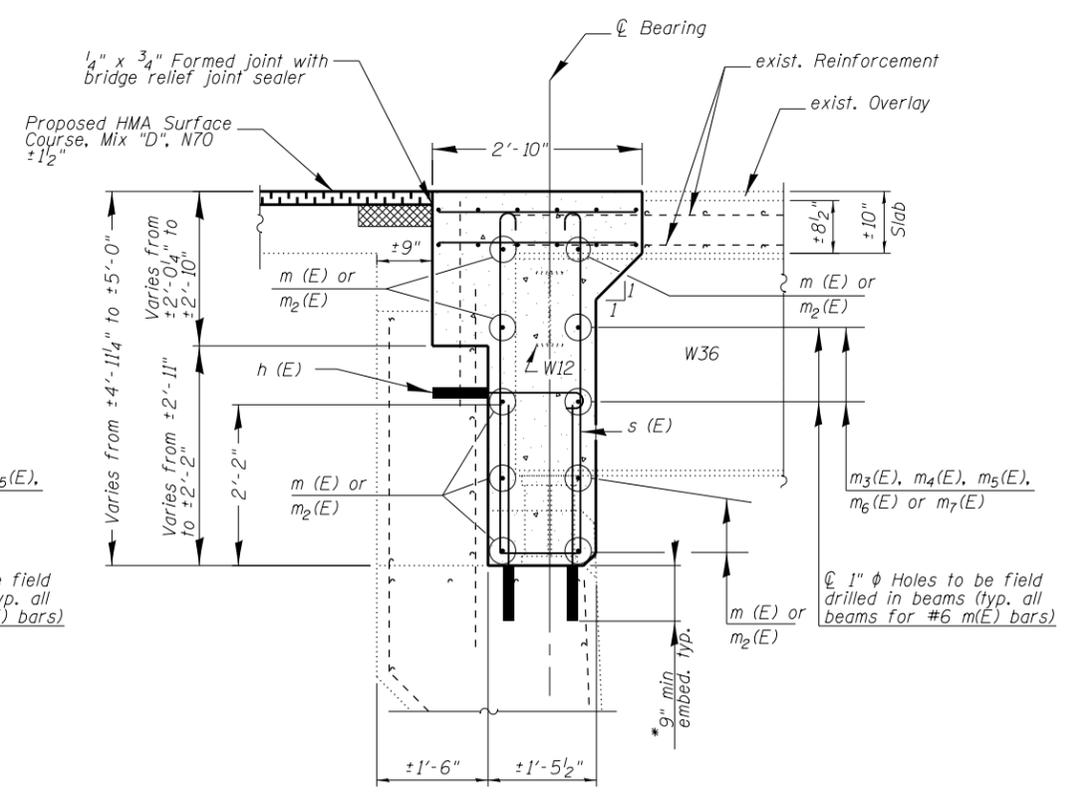
**SECTION A-A (SOUTH ABUTMENT)**

Dimensions at right angles to abutment, except as shown.



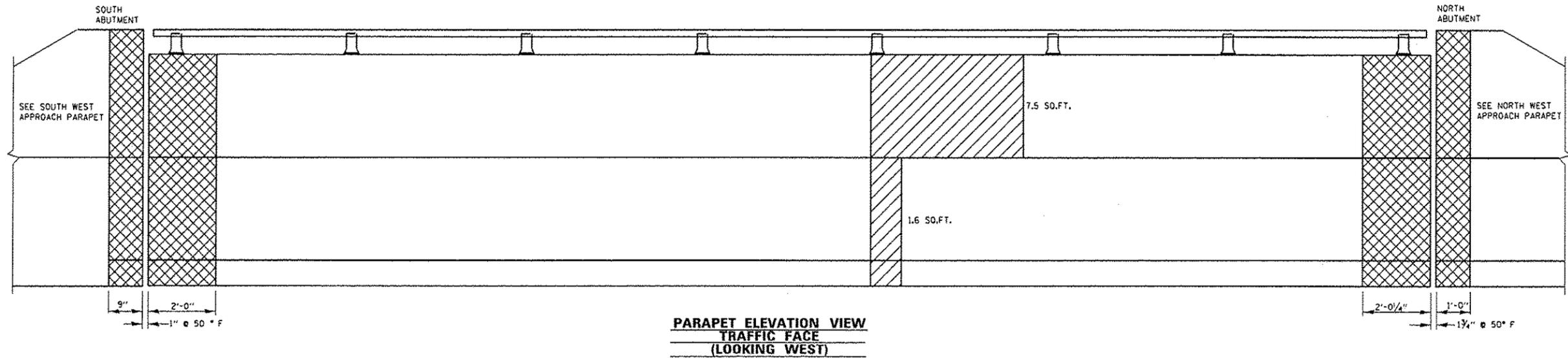
**SECTION A-A (NORTH ABUTMENT)**

Dimensions at right angles to abutment, except as shown.

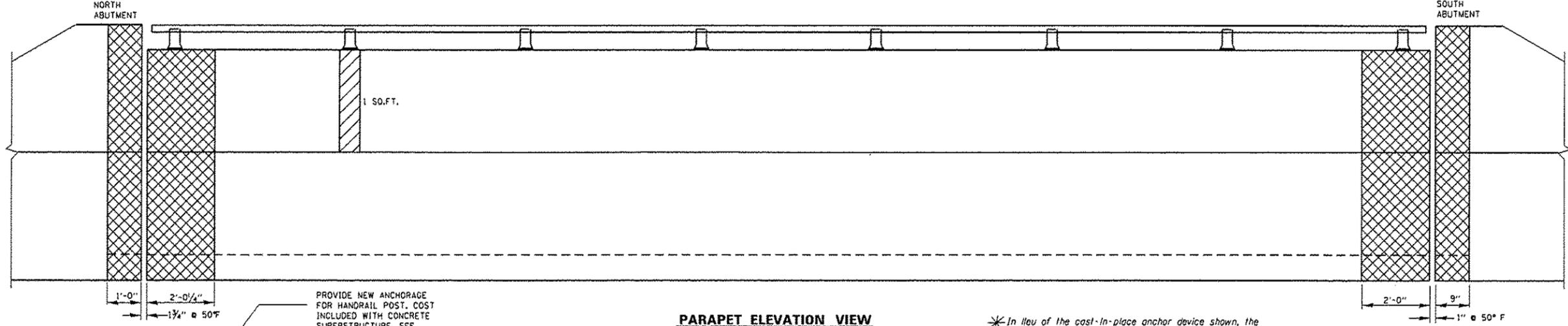


**SECTION A-A (SOUTH ABUTMENT)**

Dimensions at right angles to abutment, except as shown.



**PARAPET ELEVATION VIEW  
TRAFFIC FACE  
(LOOKING WEST)**

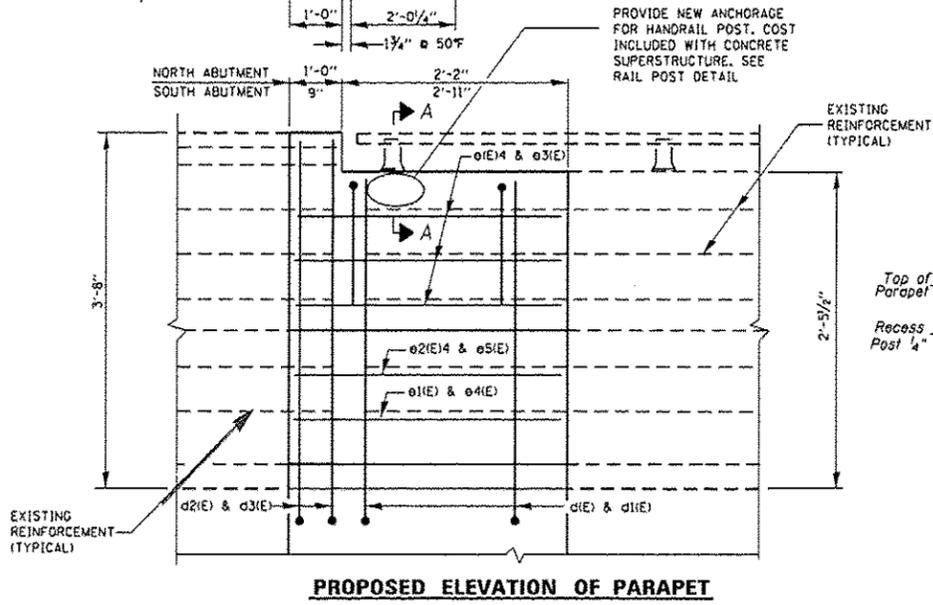


**PARAPET ELEVATION VIEW  
SIDEWALK FACE  
(LOOKING EAST)**

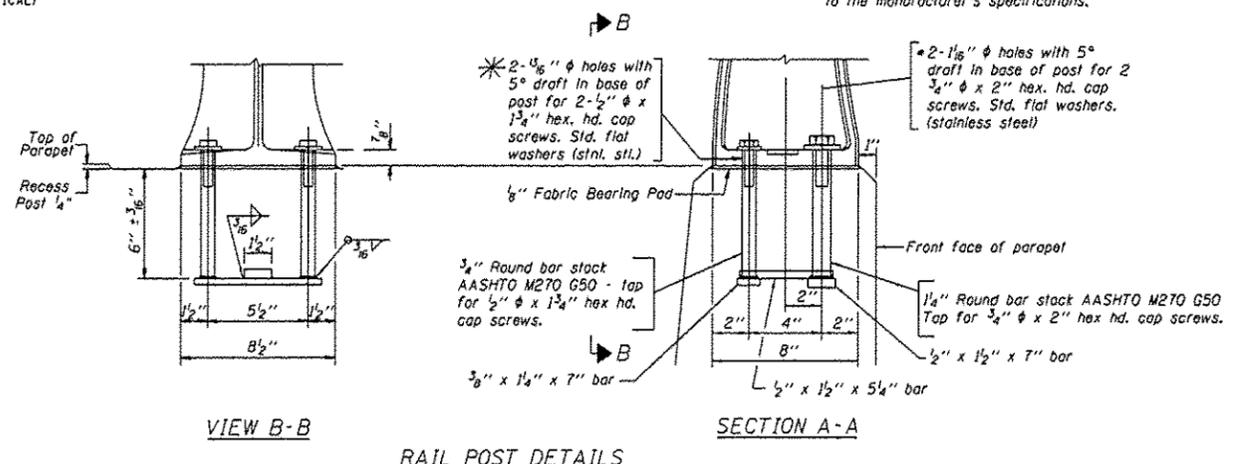
\*In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.

**NOTE:**  
CONCRETE REMOVAL IS INCLUDED WITH QUANTITY SHOWN ON SHEET 5 OF 12

**LEGEND:**  
 CONCRETE REMOVAL  
 STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5")



**PROPOSED ELEVATION OF PARAPET**



**VIEW B-B**

**RAIL POST DETAILS**

**SECTION A-A**

**BILL OF MATERIALS**

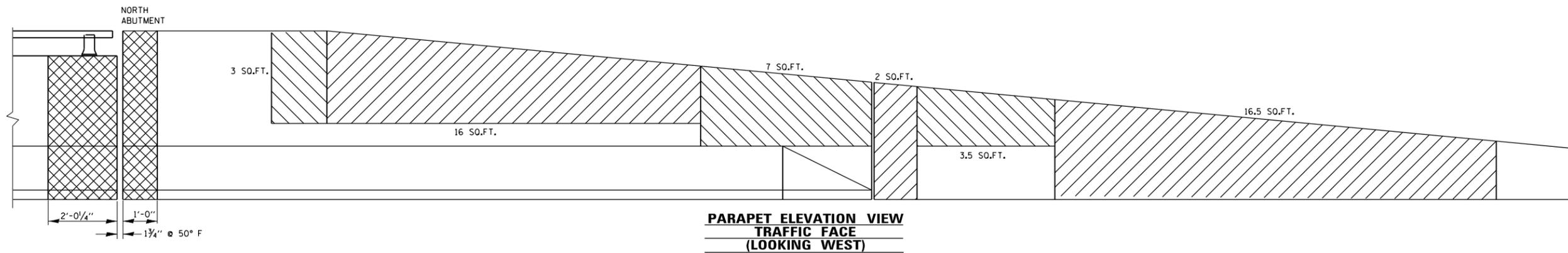
ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5")	SO.FT.	10.1

FILE NAME : c:\p\work\p1010\dahhan\10101671\016-2\09.dgn	USER NAME : dahhan	DESIGNED - MVT	REVISED -
		DRAWN - MVT	REVISED -
		CHECKED - RTB	REVISED -
		DATE -	REVISED -

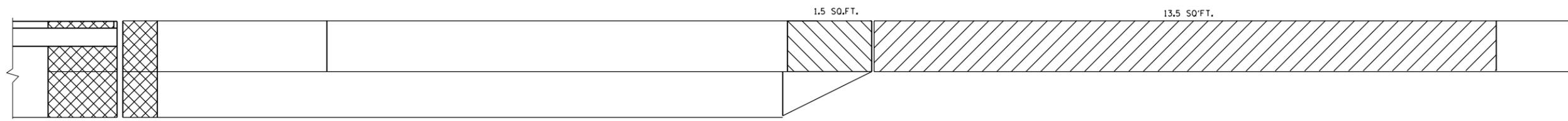
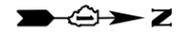
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 1 (HALSTED STREET) OVER BUTTERFIELD CREEK  
WEST PARAPET  
S.N. 016-2409**

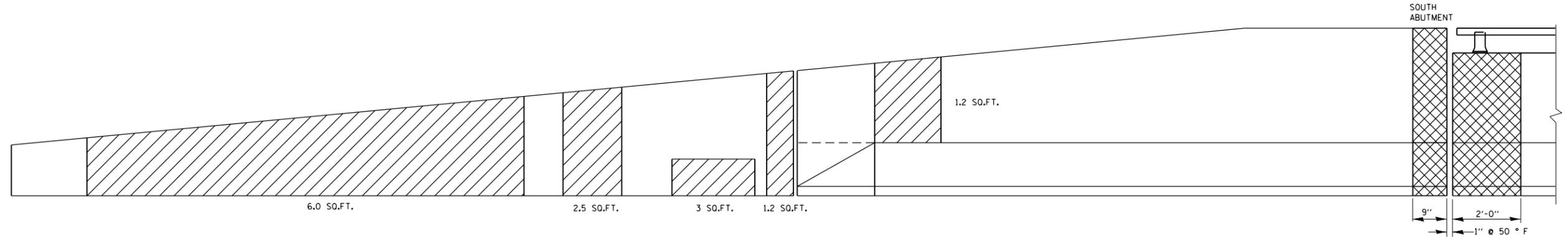
F.A.P. RTE. 876	SECTION 161Y-R-BR	COUNTY COOK	TOTAL SHEETS 29	SHEET NO. 15
SCALE: SHEET 6 OF 12 SHEETS STA. TO STA.				CONTRACT NO. 62A23
ILLINOIS FED. AID PROJECT				



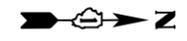
**PARAPET ELEVATION VIEW  
TRAFFIC FACE  
(LOOKING WEST)**



**PLAN VIEW  
NORTH WEST APPROACH PARAPET**



**PLAN VIEW  
SOUTH WEST APPROACH PARAPET**



**NOTE:**  
CONCRETE REMOVAL IS INCLUDED  
WITH QUANTITY SHOWN ON  
SHEET 5 OF 12

**LEGEND:**

	CONCRETE REMOVAL
	STRUCTURAL REPAIR OF CONCRETE < 5"

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH < 5")	SQ.FT.	79.4

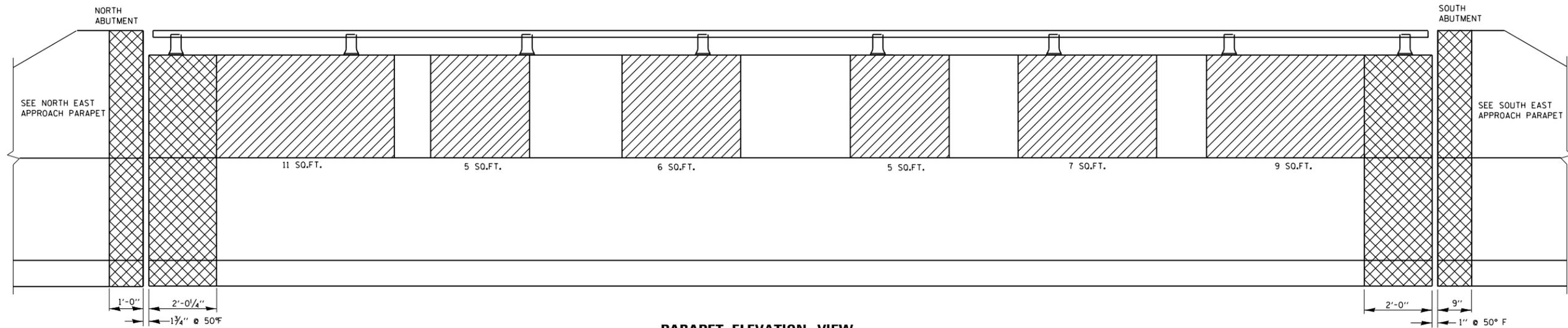
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		CHECKED - RTB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

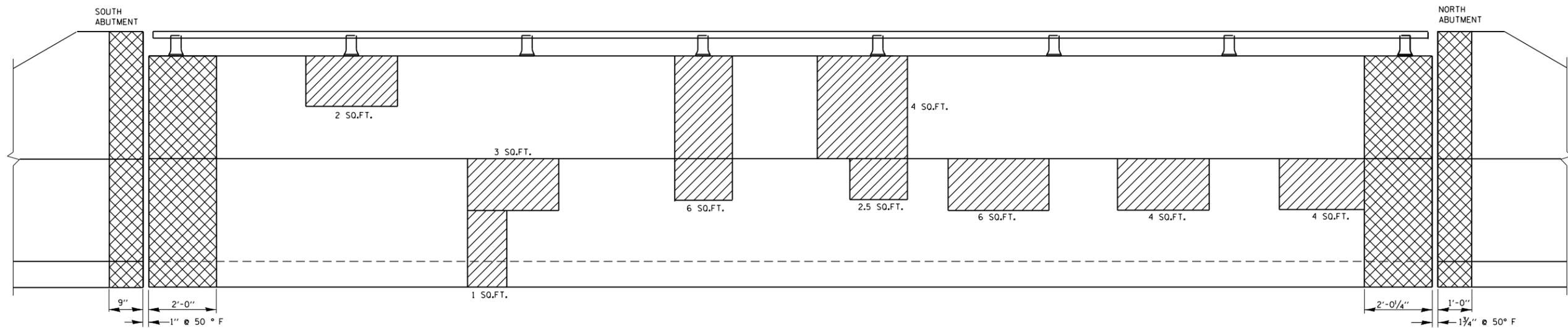
**IL 1 (HALSTED STREET) OVER BUTTERFIELD CREEK  
WEST APPROACH PARAPETS  
S.N. 016-2409**

SCALE: SHEET 7 OF 12 SHEETS STA. TO STA.

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876		COOK	29	16
			CONTRACT NO. 62A23	
ILLINOIS FED. AID PROJECT				



**PARAPET ELEVATION VIEW  
TRAFFIC FACE  
(LOOKING EAST)**



**PARAPET ELEVATION VIEW  
SIDEWALK FACE  
(LOOKING WEST)**

**NOTE:**  
CONCRETE REMOVAL IS INCLUDED  
WITH QUANTITY SHOWN ON  
SHEET 5 OF 12

**LEGEND:**  
 CONCRETE REMOVAL  
 STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5")

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5")	SO.FT.	75.5

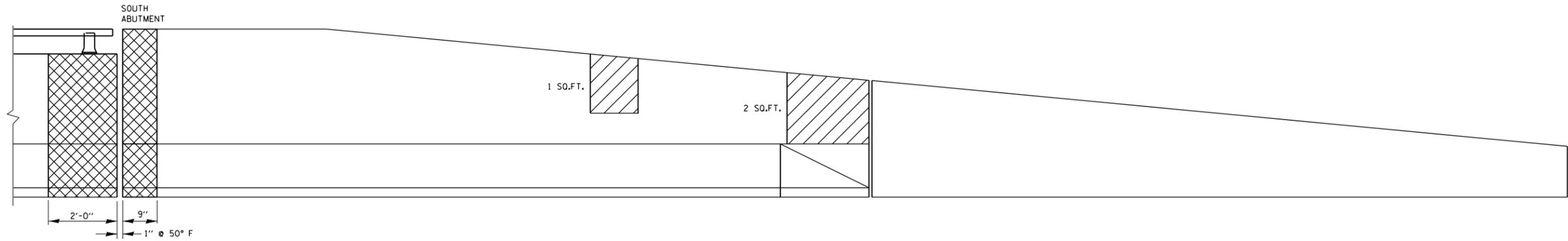
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		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

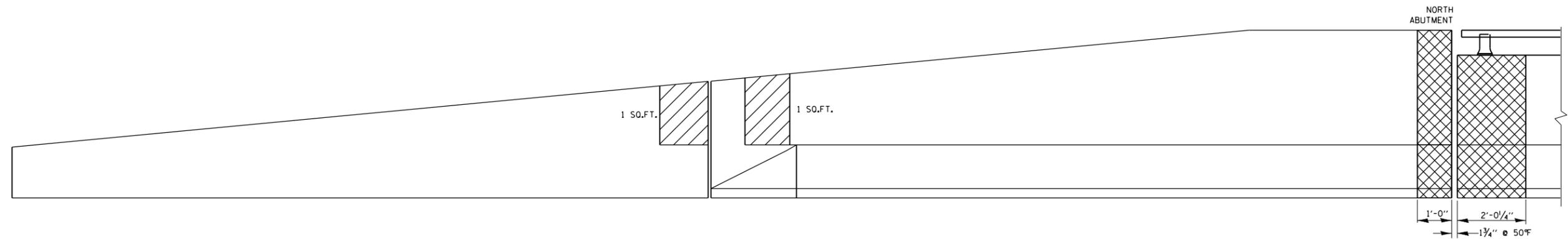
**IL 1 (HALSTED STREET) OVER BUTTERFIELD CREEK  
EAST PARAPET  
S.N. 016-2409**

SCALE: SHEET 8 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	161Y-R-BR	COOK	29	17
			CONTRACT NO. 62A23	
ILLINOIS FED. AID PROJECT				



**PARAPET ELEVATION VIEW  
TRAFFIC FACE  
(LOOKING EAST)  
SOUTH EAST APPROACH PARAPET**



**PARAPET ELEVATION VIEW  
TRAFFIC FACE  
(LOOKING EAST)  
NORTH EAST APPROACH PARAPET**

**NOTE:**  
CONCRETE REMOVAL IS INCLUDED  
WITH QUANTITY SHOWN ON  
SHEET 5 OF 12

**LEGEND:**  
 CONCRETE REMOVAL  
 STRUCTURAL REPAIR  
OF CONCRETE (DEPTH ≤ 5")

**BILL OF MATERIALS**

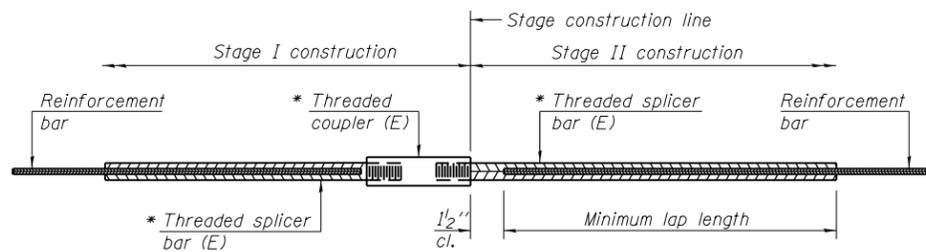
ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5")	SQ.FT.	5.0

FILE NAME =	USER NAME = dahhnr	DESIGNED -	REVISED -
et:\pwork\pwork\dot\dahhnr\d0101671\016-2409.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/13/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>IL 1 (HALSTED STREET) OVER BUTTERFIELD CREEK EAST APPROACH PARAPETS S.N. 016-2409</b>			
SCALE:	SHEET 9	OF 12 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	161Y-R-BR	COOK	29	18
CONTRACT NO. 62A23			ILLINOIS FED. AID PROJECT	



**STANDARD BAR SPLICER ASSEMBLY**

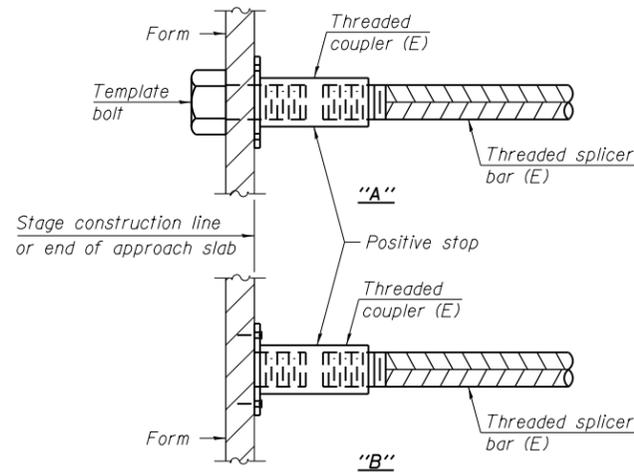
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

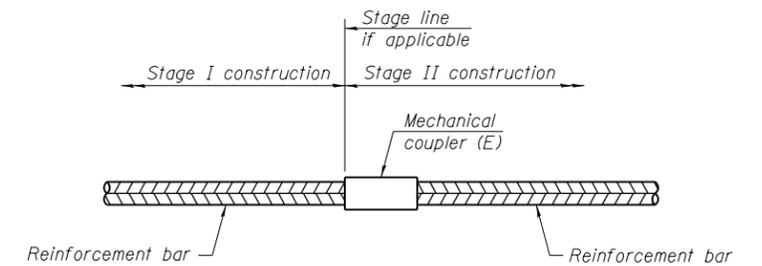
\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Slab	#5	24	Table 4
Slab & Abutments	#6	64	Table 4



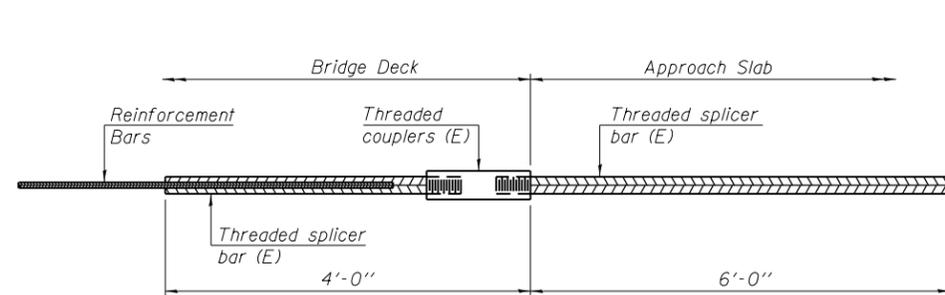
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
 (E) : Indicates epoxy coating.



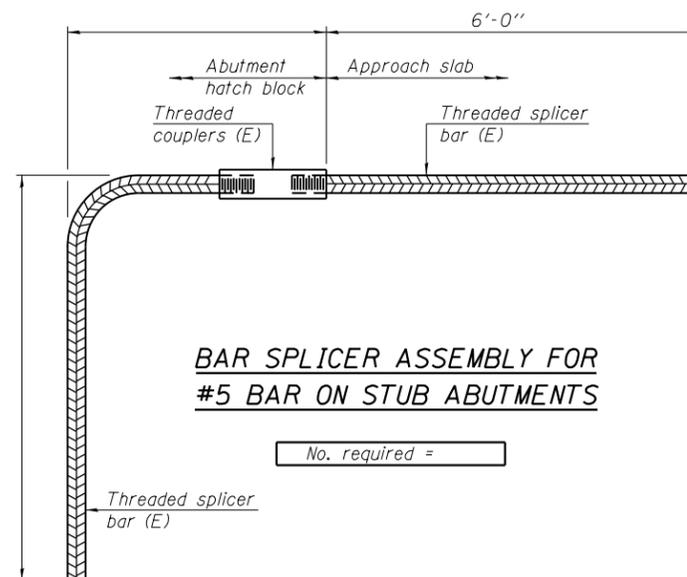
**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required



**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required =



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

1-27-12

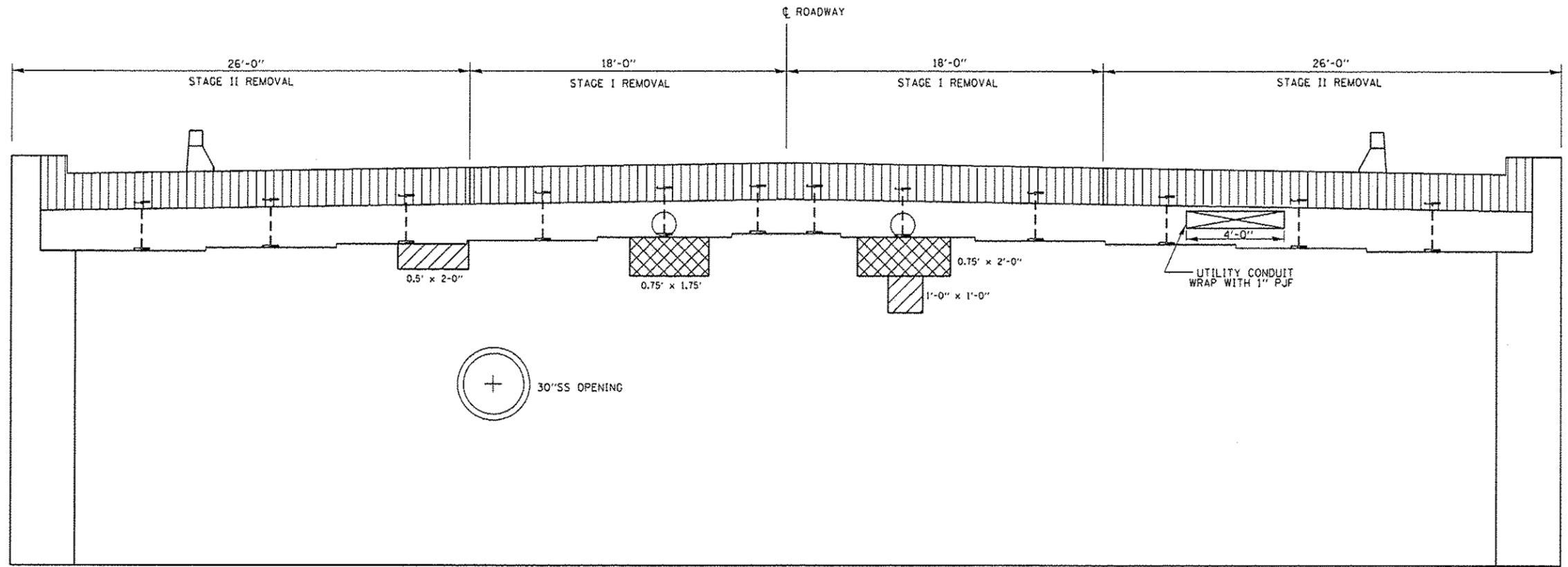
DESIGNED -	EXAMINED	DATE -
CHECKED -	ENGINEER OF STRUCTURAL SERVICES	
DRAWN -	PASSED	REVISED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 016-2409

SHEET NO. 10 OF 12 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	161Y-R-BR	COOK	29	19
CONTRACT NO. 62A23				
ILLINOIS FED. AID PROJECT				



**NORTH ABUTMENT  
(LOOKING NORTH)**

**REACTION TABLE**

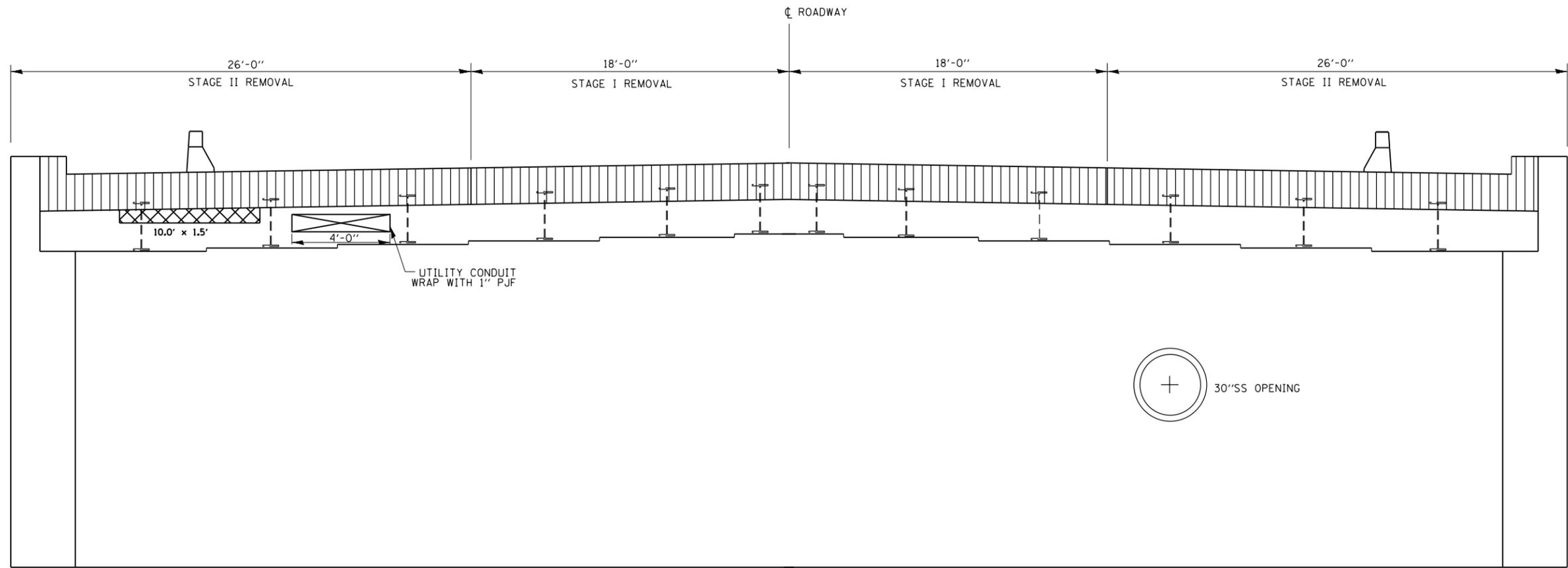
R <sub>DL</sub>	(k) = 41.4
R <sub>LL</sub>	(k) = 47.2
I <sub>mp</sub>	(k) = 12.7
<b>TOTAL</b>	<b>(k) = 101.3</b>

**NOTE:**  
CONCRETE REMOVAL IS INCLUDED WITH QUANTITY SHOWN ON SHEET 5 OF 12

- LEGEND:**
- STRUCTURAL REPAIR OF CONCRETE (DEPTH > 5")
  - STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5")
  - CONCRETE REMOVAL
  - TEMPORARY SHORING AND CRIBBING

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH > 5")	SO.FT.	2.8
STRUCTURAL REPAIR OF CONCRETE (DEPTH ≤ 5")	SO.FT.	2.0
TEMPORARY SHORING AND CRIBBING	EACH	2



**SOUTH ABUTMENT  
(LOOKING SOUTH)**

**NOTES:**

STRUCTURAL REPAIR OF CONCRETE SHALL USE THE SAME MATERIAL AND BE POURED AT THE SAME TIME AS CONCRETE SUPERSTRUCTURE

CONCRETE REMOVAL IS INCLUDED WITH QUANTITY SHOWN ON SHEET 5 OF 12

**LEGEND:**

- ▨ CONCRETE REMOVAL
- ▩ STRUCTURAL REPAIR OF CONCRETE (DEPTH > 5")

**BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
STRUCTURAL REPAIR OF CONCRETE (DEPTH > 5")	SQ.FT.	15.0

FILE NAME =	USER NAME = dahhnr	DESIGNED - MVT	REVISED -
		DRAWN - MVT	REVISED -
		CHECKED - RTB	REVISED -
		DATE -	REVISED -

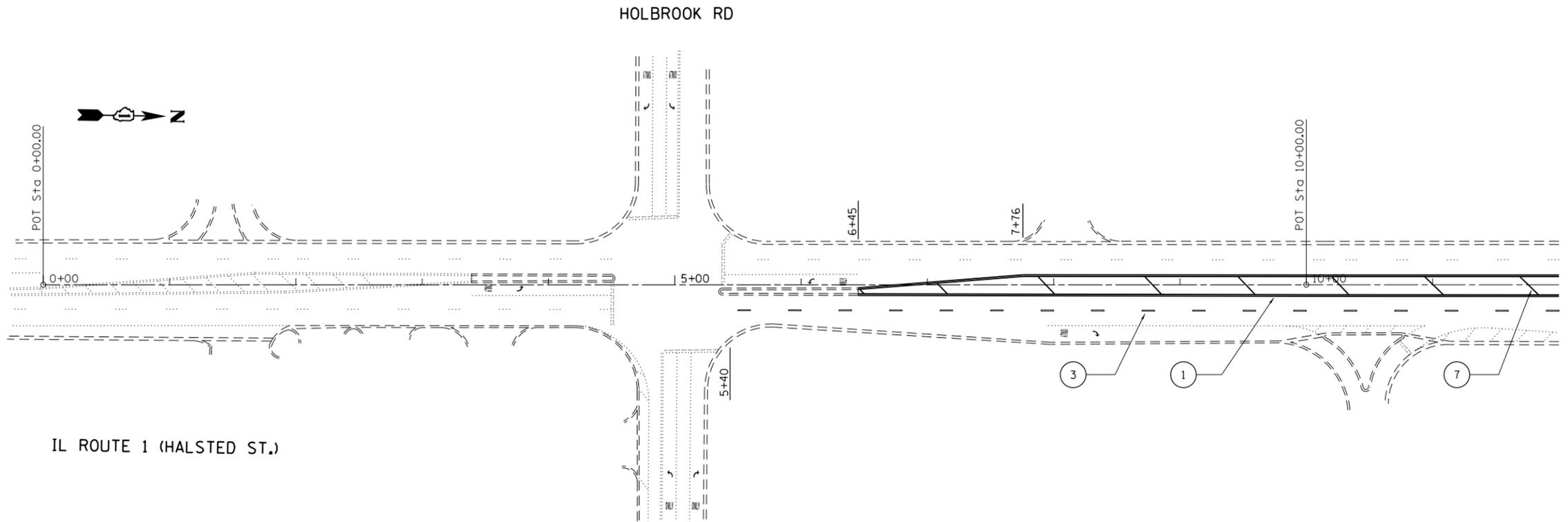
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL 1 (HALSTED STREET) OVER BUTTERFIELD CREEK  
SOUTH ABUTMENT REPAIRS  
S.N. 016-2409**

SCALE: SHEET 12 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	161Y-R-BR	COOK	29	21
			CONTRACT NO. 62A23	
ILLINOIS FED. AID PROJECT				

MATCH LINE STA. 12+00

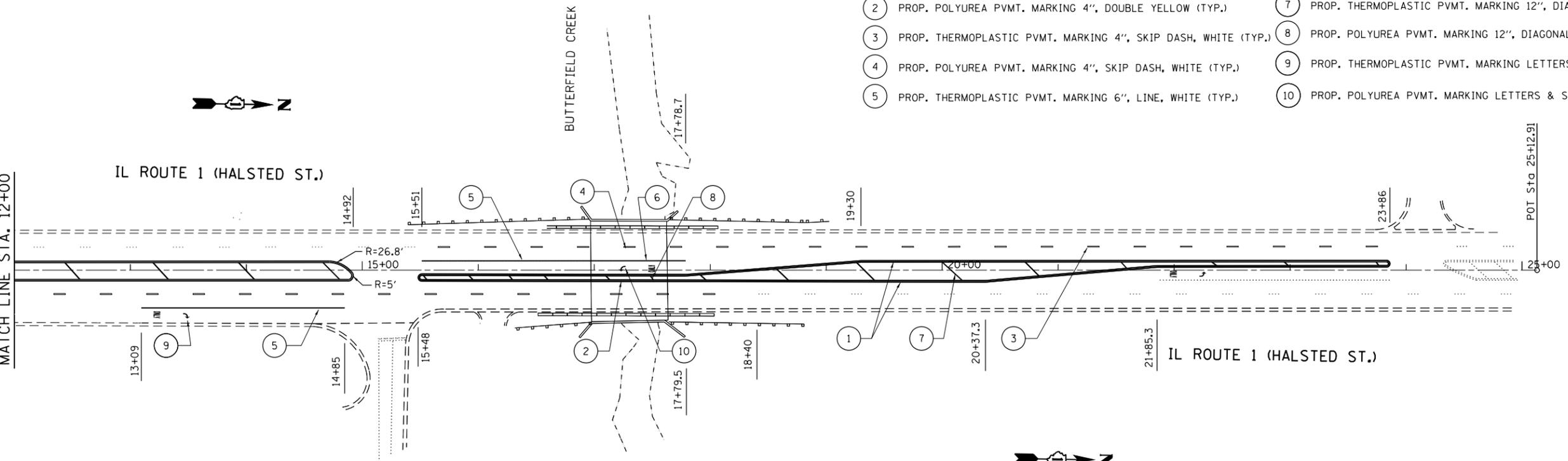


IL ROUTE 1 (HALSTED ST.)

- ① PROP. THERMOPLASTIC PVMT. MARKING 4", DOUBLE YELLOW (TYP.)
- ② PROP. POLYUREA PVMT. MARKING 4", DOUBLE YELLOW (TYP.)
- ③ PROP. THERMOPLASTIC PVMT. MARKING 4", SKIP DASH, WHITE (TYP.)
- ④ PROP. POLYUREA PVMT. MARKING 4", SKIP DASH, WHITE (TYP.)
- ⑤ PROP. THERMOPLASTIC PVMT. MARKING 6", LINE, WHITE (TYP.)
- ⑥ PROP. POLYUREA PVMT. MARKING 6", LINE, WHITE (TYP.)
- ⑦ PROP. THERMOPLASTIC PVMT. MARKING 12", DIAGONALS, YELLOW (TYP.)
- ⑧ PROP. POLYUREA PVMT. MARKING 12", DIAGONALS, YELLOW (TYP.)
- ⑨ PROP. THERMOPLASTIC PVMT. MARKING LETTERS & SYMBOLS, WHITE (TYP.)
- ⑩ PROP. POLYUREA PVMT. MARKING LETTERS & SYMBOLS, WHITE (TYP.)

MATCH LINE STA. 12+00

IL ROUTE 1 (HALSTED ST.)



IL ROUTE 1 (HALSTED ST.)

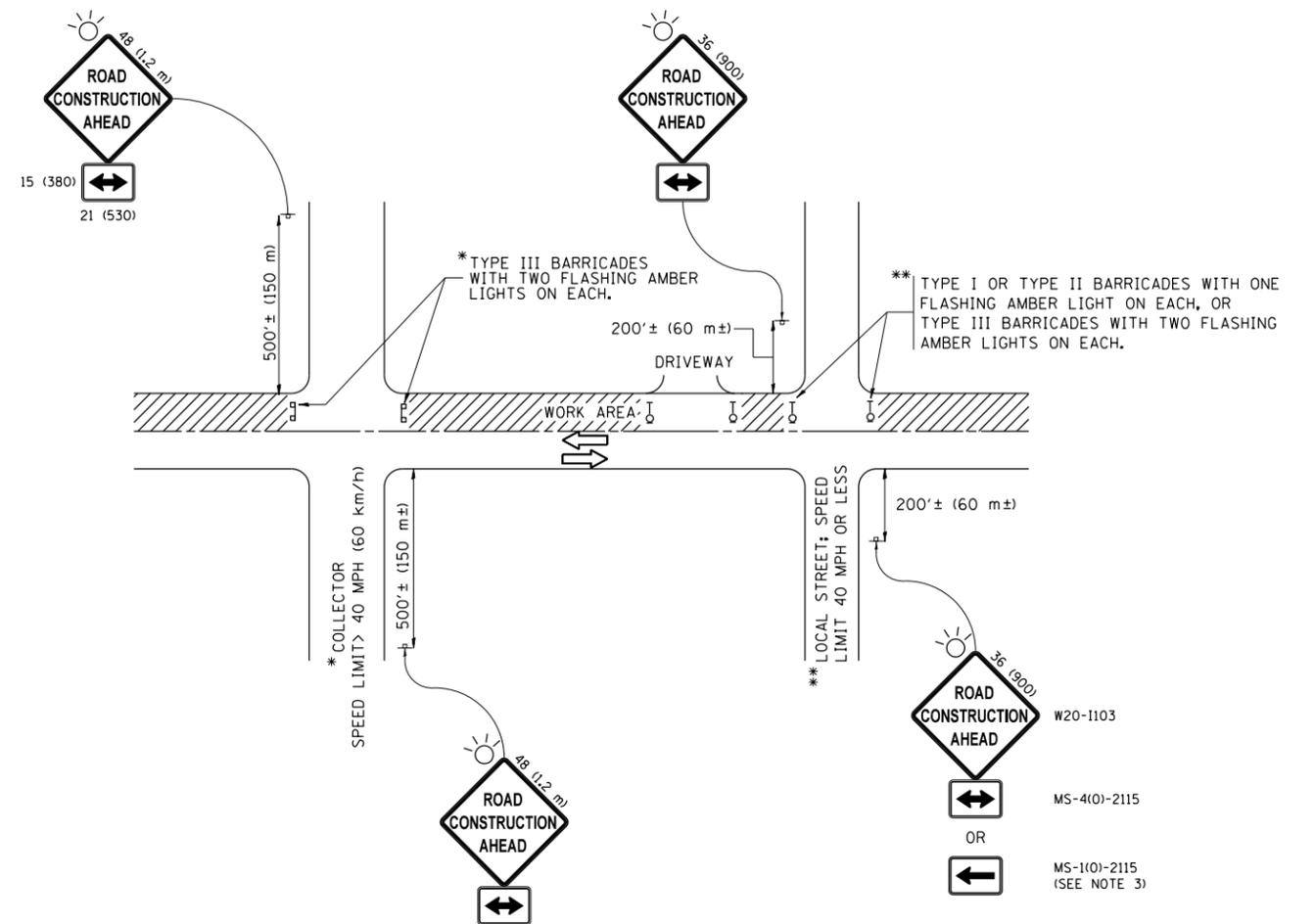
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Default	PLOT DATE = 2/13/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN  
IL ROUTE 1 (HALSTED ST.) OVER BUTTERFIELD CREEK

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	161Y-R-BR	COOK	29	22
CONTRACT NO. 62A23				
ILLINOIS FED. AID PROJECT				



## TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

### NOTES:

#### A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

#### B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

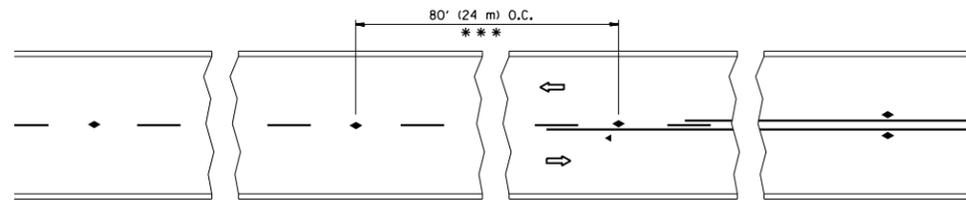
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	PLOT DATE = 2/17/2015	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR  
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

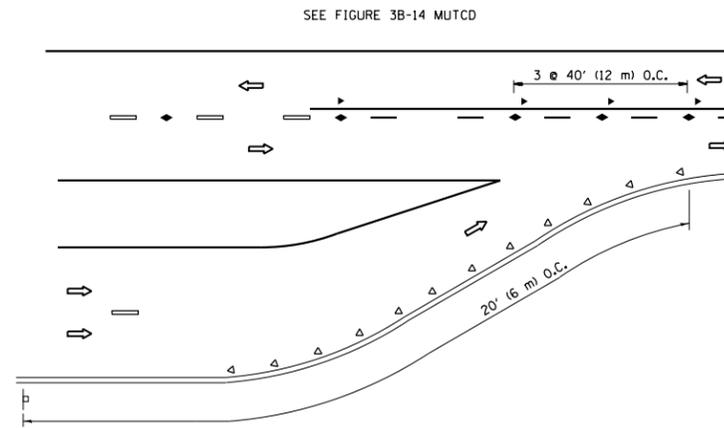
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62A23	
ILLINOIS FED. AID PROJECT				

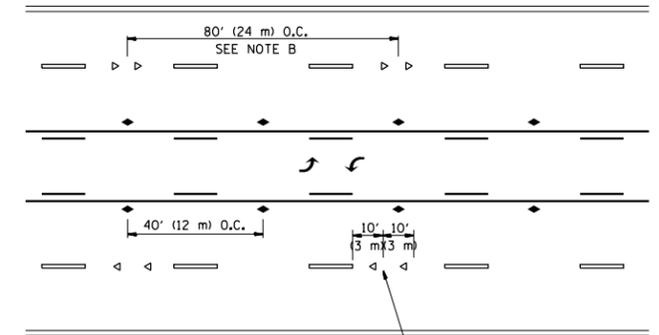


\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

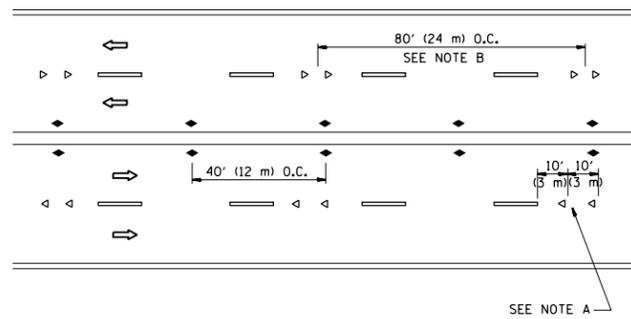
**TWO-LANE/TWO-WAY**



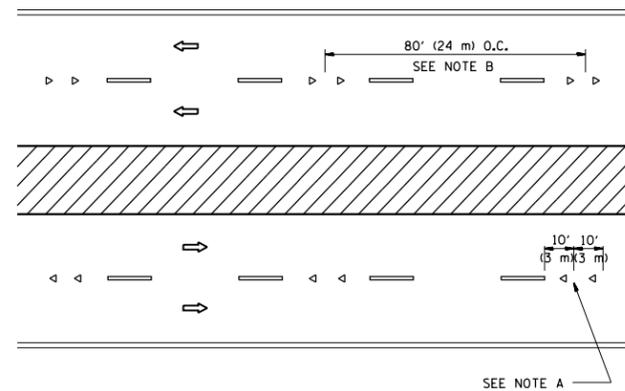
**LANE REDUCTION TRANSITION**



**TWO-WAY LEFT TURN**



**MULTI-LANE/UNDIVIDED**



**MULTI-LANE/DIVIDED**

**GENERAL NOTES**

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

**SYMBOLS**

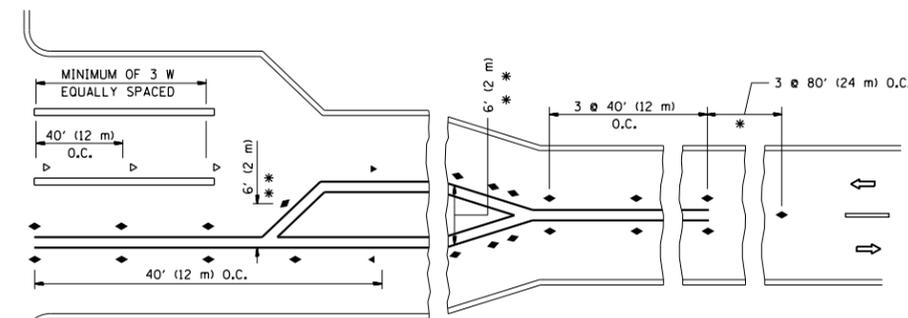
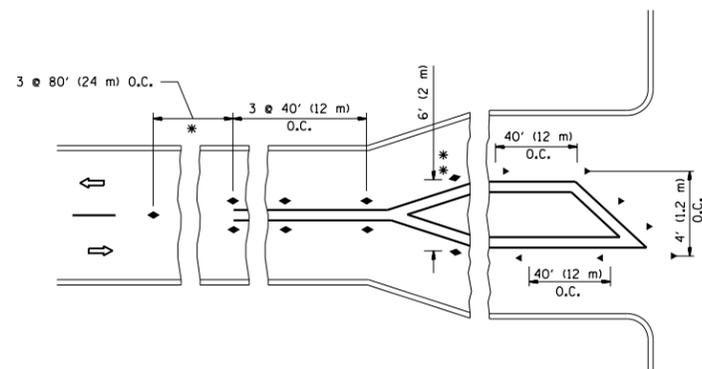
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

**LANE MARKER NOTES**

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

**DESIGN NOTES**

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



\* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE  
 \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

**TURN LANES**

All dimensions are in inches (millimeters) unless otherwise shown.

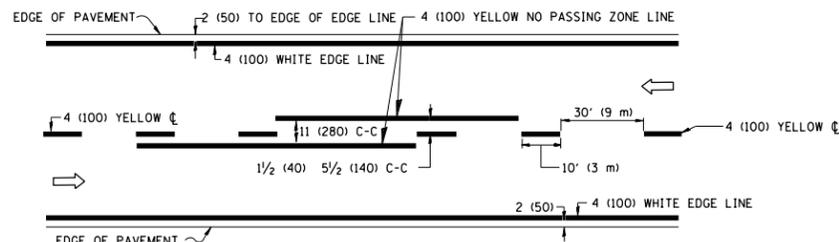
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

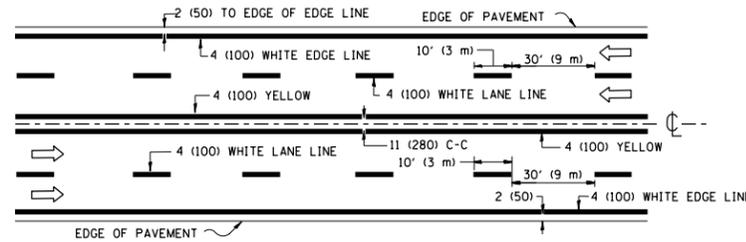
**TYPICAL APPLICATIONS  
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

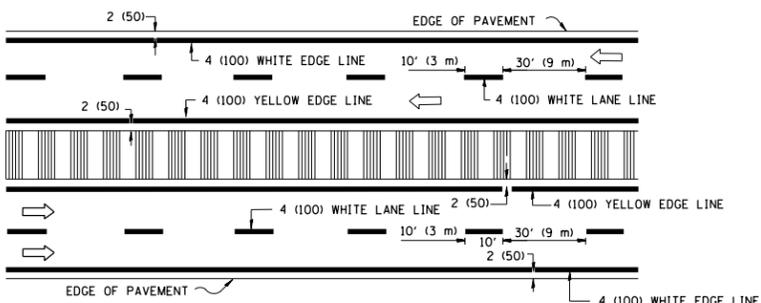
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	161Y-R-BR	COOK	29	24
TC-11			CONTRACT NO. 62A23	
ILLINOIS FED. AID PROJECT				



**2-LANE ROADWAY**



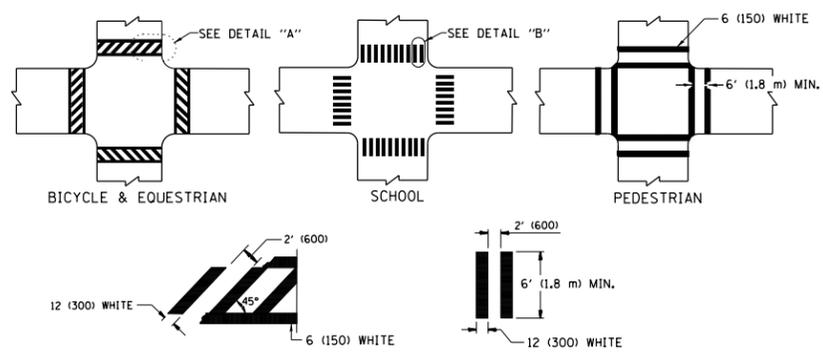
**MULTI-LANE UNDIVIDED**



**MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN**

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

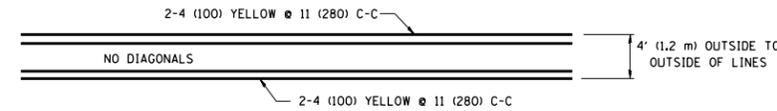
**TYPICAL LANE AND EDGE LINE MARKING**



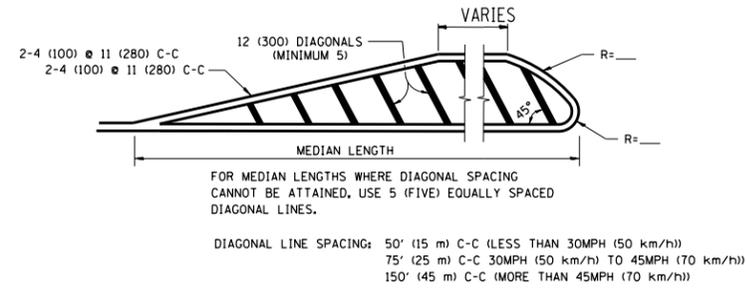
**DETAIL "A" TYPICAL CROSSWALK MARKING**

**DETAIL "B" TYPICAL CROSSWALK MARKING**

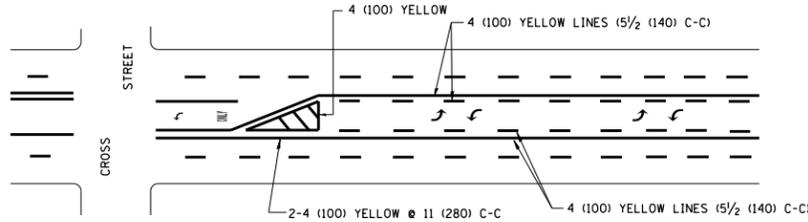
\* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



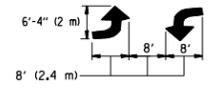
**4' (1.2 m) WIDE MEDIANS ONLY**



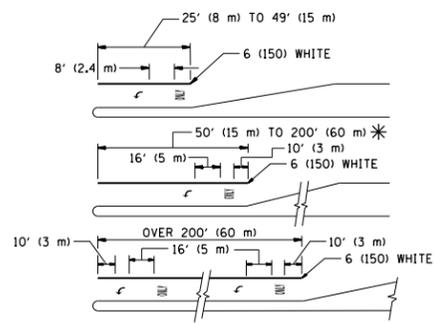
**MEDIANS OVER 4' (1.2 m) WIDE**



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



**MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING**

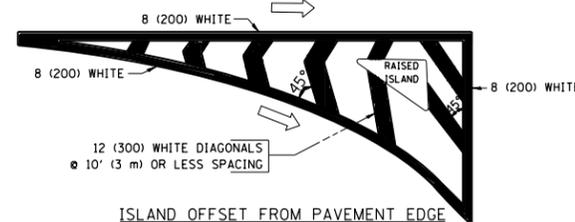


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m<sup>2</sup>) ONLY AREA = 20.8 SQ. FT. (1.9 m<sup>2</sup>)

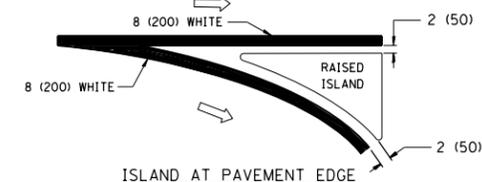
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

**TYPICAL LEFT (OR RIGHT) TURN LANE**

**TYPICAL TURN LANE MARKING**



**ISLAND OFFSET FROM PAVEMENT EDGE**



**ISLAND AT PAVEMENT EDGE**

**TYPICAL ISLAND MARKING**

**LANE REDUCTION TRANSITION**

\* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

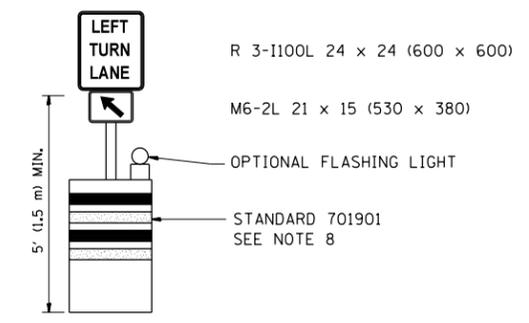
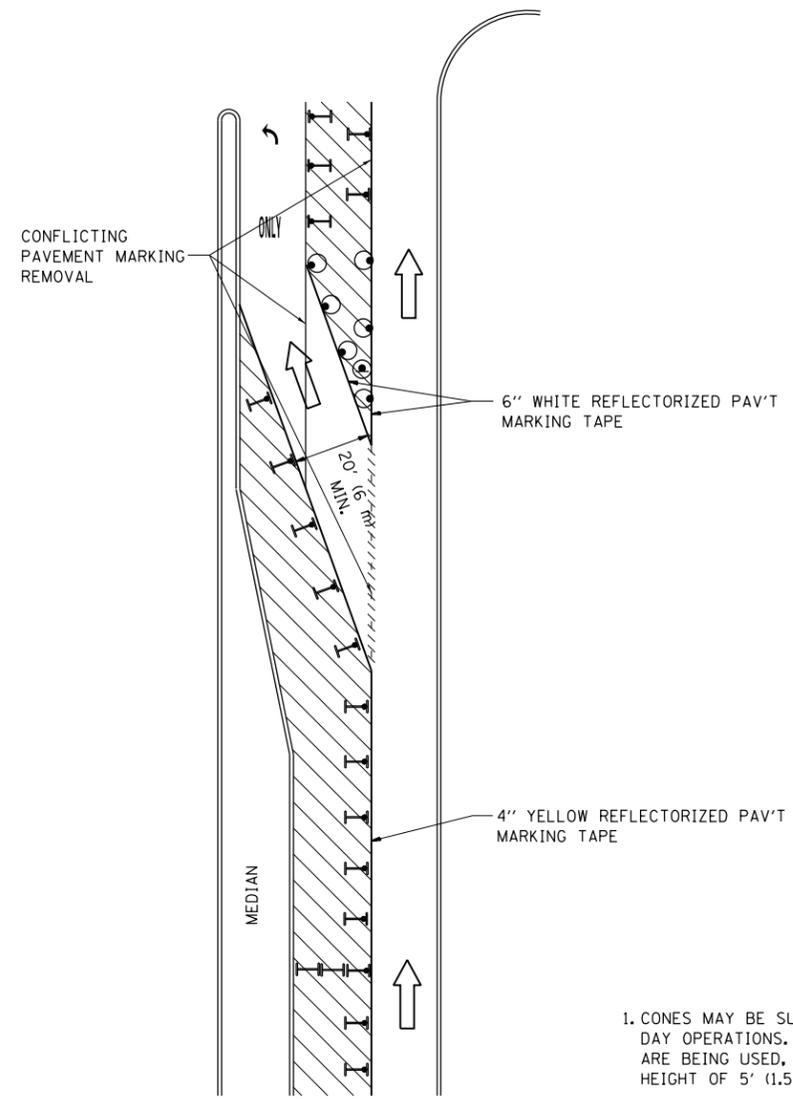
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**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	161Y-R-BR	COOK	29	25
<b>TC-13</b>		<b>CONTRACT NO. 62A23</b>		
ILLINOIS FED. AID PROJECT				



**GENERAL NOTES**

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM OPER 725 IS REQUIRED.
8. IF A DRUM WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.
9. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

**LEGEND**

- WORK AREA
- LANE OPEN TO TRAFFIC
- TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

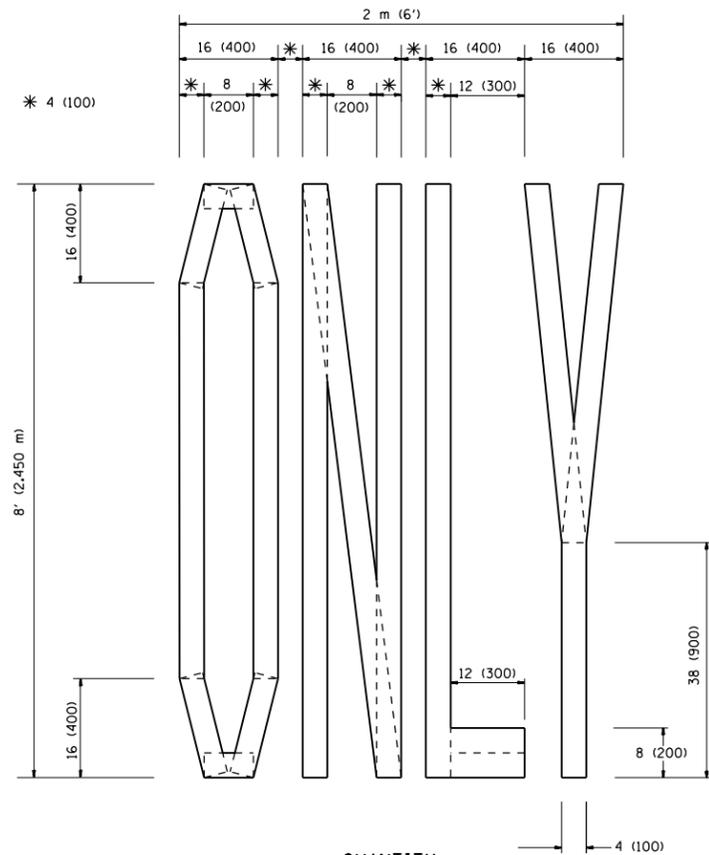
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

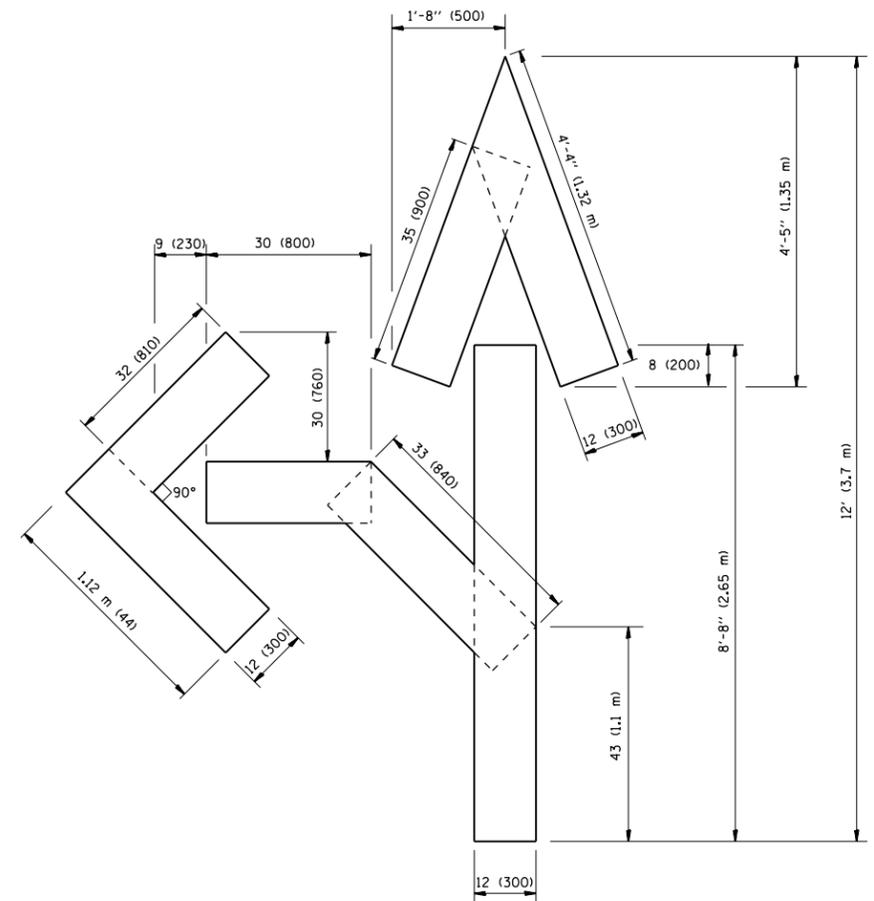
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

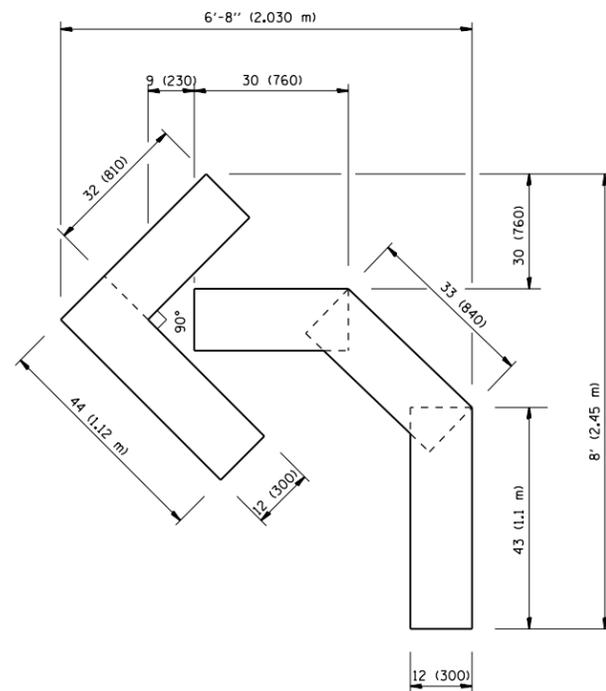
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	161Y-R-BR	COOK	29	26
TC-14			CONTRACT NO. 62A23	
ILLINOIS FED. AID PROJECT				



QUANTITY  
 4 (100) LINE = 64.1 ft. (19.7 m)  
 21.1 sq. ft. (1.97 sq. m)



QUANTITY  
 4 (100) LINE = 82.5 ft. (25.3 m)  
 27.5 sq. ft. (2.53 sq. m)



QUANTITY  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.39 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

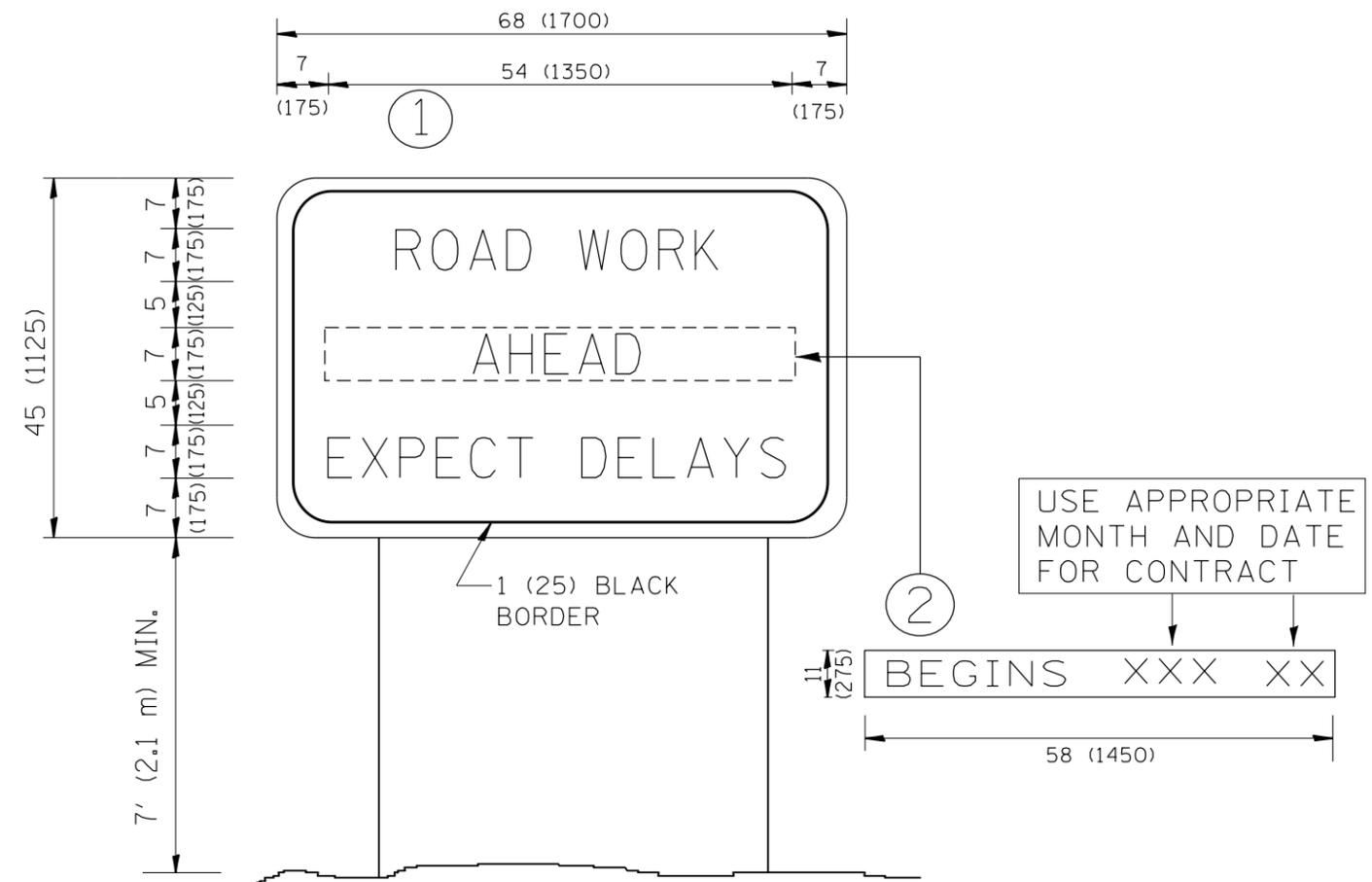
FILE NAME =	USER NAME = dahhnr	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
et:\pw\work\p\dot\dahhnr\d0419832\011065-shit-cover.dgn		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 2/17/2015	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	161Y-R-BR	COOK	29	27
TC-16			CONTRACT NO. 62A23	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME =	USER NAME = dahhnr	DESIGNED -	REVISED - R. MIRS 09-15-97
et:\pw_work\p1dot\dahhnr\d0419032\011005-sh1-cover.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 2/17/2015	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD  
INFORMATION SIGN**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	161Y-R-BR	COOK	29	28
TC-22			CONTRACT NO. 62A23	
FED. ROAD DIST. NO. 1   ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED  
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

**NOTES:**

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE  
 PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN)  
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY  
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE  
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME =	USER NAME = dahhanr	DESIGNED -	REVISED - C. JUCIUS 02-15-07
ct:\pwork\pwork\dahhanr\d0419032\011005-sht-cover.dgn		DRAWN -	REVISED -
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/17/2015	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**DRIVEWAY ENTRANCE SIGNING**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
876	161Y-R-BR	COOK	29	29
<b>TC-26</b>			<b>CONTRACT NO. 62A23</b>	
ILLINOIS FED. AID PROJECT				