

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	1
		ILLINOIS	CONTRACT NO. 78119	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
 FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-9
 FOR STRUCTURAL PAVEMENT DESIGN INFORMATION, SEE SHEET NO.: NA

PROPOSED HIGHWAY PLANS

**F.A.P. ROUTE 821 (IL ROUTE 15)
 OVER POLE CAT CREEK
 SECTION: 12B-1
 PROJECT ACF-0821(050)
 STRUCTURE REPLACEMENT
 JEFFERSON COUNTY**

C-99-004-09

TRAFFIC DATA

IL RTE 15 TRAFFIC DATA

2008 ADT = 2930
 2028 ADT = 3570
 8.10 % TRUCKS

TOWNSHIP:

CASNER

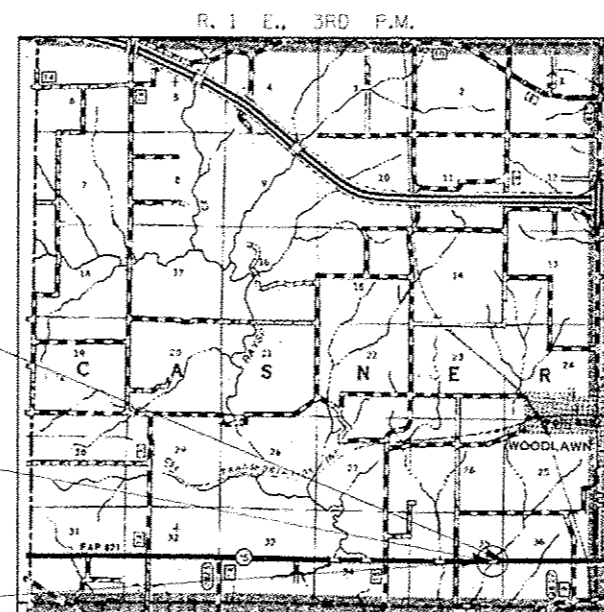
DESIGN DESIGNATION : NA
COORDINATE SYSTEM : ILLINOIS COORDINATE SYSTEM, WEST ZONE
DESIGN SPEED : 55 MPH

J.U.L.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

PROJECT ENGINEER: DAVID PICHE

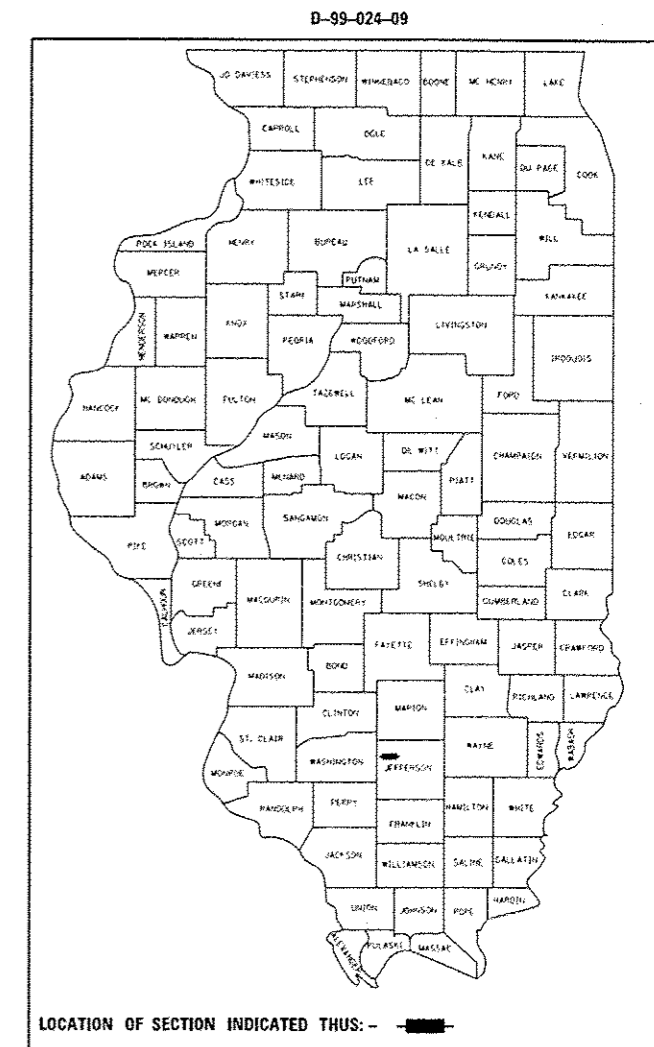
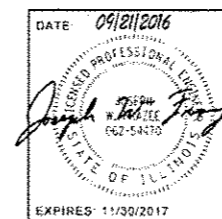
CONTRACT NO. 78119

HAMPTON, LENZINI AND RENWICK, INC.
 CIVIL ENGINEERS • STRUCTURAL ENGINEERS • LAND SURVEYORS
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 217.546.3400 www.hlrengineering.com



LOCATION MAP

APPROXIMATE SCALE: 0 1 MILE
 NET LENGTH OF PROJECT = 345 FEET = 0.065 MILES
 GROSS LENGTH OF PROJECT = 345 FEET = 0.065 MILES
 ROADWAY LENGTH = 256 FEET = 0.048 MILES
 BRIDGE LENGTH = 89 FEET = 0.017 MILES



LOCATION OF SECTION INDICATED THUS: - ■ -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION

SUBMITTED Oct 17 2016
Jeffrey L. Keim
 REGION FIVE ENGINEER

Dec 9 2016
Margaret M. Addis, P.E.
 acting ENGINEER OF DESIGN AND ENVIRONMENT

Dec 19 2016
David Piche
 DIRECTOR OF PROGRAM DEVELOPMENT

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 OF THE STATE OF ILLINOIS**

GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING FIELD DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THE PLANS.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING CONDITIONS HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NORMAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK. THE CONTRACTOR, HOWEVER, WILL BE PAID FOR THE ACTUAL QUANTITY FURNISHED AT THE UNIT PRICE FOR THE WORK. CONSTRUCTION PLANS ARE AVAILABLE FOR REVIEW AT THE DISTRICT 9 OFFICE.
- THE THICKNESS OF HOT MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT MIX ASPHALT MIXTURE IS PLACED.
- ALL OBSTRUCTIONS WHICH ARE WITHIN THE CLEAR ZONE SHOWN ON THE TYPICAL SECTION SHALL BE REMOVED BETWEEN STATION ~~991+00~~ AND STATION ~~998+00~~. TYPICAL OBSTRUCTIONS ARE HEADWALLS, FOUNDATIONS, ETC. WHICH PROJECT 100 mm (4 IN.) OR MORE ABOVE THE GROUND LINE AND TREES WHICH WILL MATURE TO A DIAMETER OF 100 mm (4 IN.) OR GREATER.
- IF SO DIRECTED BY THE ENGINEER, DITCHES ADJACENT TO EMBANKMENTS SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.
- FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:
 HOT MIX ASPHALT - 112 LBS/SQ. YD. / INCH
 BITUMINOUS MATERIALS:
 ON PAVEMENT (TACK COAT) - 0.05 LB./SQ. FT.
 INTERMEDIATE LIFTS (TACK COAT) - 0.025 LB./SQ. FT.
 ON AGGREGATE SURFACE (PRIME COAT) - 0.25 LB./SQ. FT.
 RIPRAP - 1.5 TONS/CU. YD.
- WHEN WIDENING FLEXIBLE BASE PAVEMENT, THE CONTRACTOR SHALL TRIM EXISTING SURFACE AND BASE TO A FIRM, NEAR VERTICAL PLANE BEFORE CONSTRUCTING THE WIDENING. THE COST OF THIS REQUIREMENT IS INCLUDED IN THE UNIT PRICE BID FOR THE BASE COURSE WIDENING.
- AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
- THE MINIMUM VERTICAL CLEARANCE FOR PERMANENT SIGNS PLACED ON BACKSLOPES SHALL BE 0.914 m (3 FT.) MEASURED FROM A POINT DIRECTLY BENEATH THE FAR EDGE OF THE SIGN.
- THE LIMITS OF ROCK AND EARTH SLOPES SHOWN IN THE CROSS SECTIONS ARE APPROXIMATE. THE ACTUAL SLOPE USED SHALL BE DETERMINED BY THE MATERIAL CLASSIFICATION AS DEFINED IN ARTICLE 202.04, AND AS DIRECTED BY THE ENGINEER.
- PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

- THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC. THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OFF OR COVERED.
- ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE LEFT IN PLACE UNTIL REMOVAL IS REQUIRED TO CONSTRUCT FINAL GRADE LINES.
- TREES SHALL BE PRESERVED THROUGHOUT THIS SECTION AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. GENERALLY, TREES OUTSIDE THE CLEAR ZONE, OR CONSTRUCTION LIMITS, AND WHICH DO NOT INTERFERE WITH CONSTRUCTION, SHALL NOT BE DISTURBED.
- COMMITMENTS: NONE AS OF 10/21/2016

HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 420406 PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
- 482001-02 HMA SHOULDERS ADJACENT TO FLEXIBLE PAVEMENT
- 482006-03 HMA SHOULDER ADJACENT TO RIGID PAVEMENT
- 515001-03 NAME PLATE FOR BRIDGES
- 542401-02 METAL END SECTION FOR PIPE CULVERTS
- 601101-02 CONCRETE HEADWALL FOR PIPE UNDERDRAIN
- 606201-03 TYPE B CUTTER (INLET, OUTLET & ENTRANCE)
- 610001-07 SHOULDER INLET WITH CURB
- 630001-11 STEEL PLATE BEAM GUARDRAIL
- 630201-07 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-07 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631031-15 TRAFFIC BARRIER TERMINAL, TYPE 6
- 701001-02 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5M) AWAY
- 701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5M) TO 24" (600 MM) FROM PAVEMENT EDGE
- 701011-04 OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS • 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701321-16 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS • 45 MPH
- 701901-06 TRAFFIC CONTROL DEVICES
- 704001-08 TEMPORARY CONCRETE BARRIER
- 725001-01 OBJECT AND TERMINAL MARKERS
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

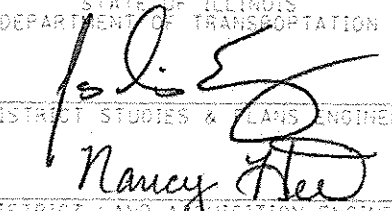
INDEX OF SHEETS

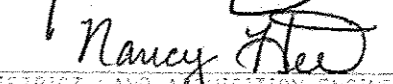
SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	INDEX, GENERAL NOTES AND HIGHWAY STANDARDS
3.-9.	SUMMARY OF QUANTITIES
10.-12.	TYPICAL SECTIONS
13.-14.	SCHEDULE OF QUANTITIES
15.	ALIGNMENT, TIES AND BENCHMARKS
16.-17.	PLAN AND PROFILE
18.	STAGE 1 CONSTRUCTION
19.	STAGE 2 CONSTRUCTION
20.	EROSION AND SEDIMENT CONTROL PLAN
21.	PAVED SHOULDER LAYOUT
22.	GUARDRAIL LAYOUT PLAN
23.	PAVEMENT MARKING PLAN
24.	STANDARD DETAILS DISTRICT 9
25.-40.	STRUCTURE PLANS
41.-43.	SOIL BORINGS
44.-57.	CROSS SECTIONS


UTILITIES

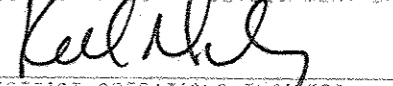
CLEARWAVE COMMUNICATIONS P.O. BOX 808 HARRISBURG, IL 62946 ATTN: BOB CLAYTON TEL#: (618) 294-6000 CELL: (618) 841-2600	TRI COUNTY ELECTRIC CO-OP. P.O. BOX 369 MT. VERNON, IL 62664 ATTN: DENNIS IVERS TEL#: (618) 244-5151
FRONTIER COMMUNICATIONS 208 WEST UNION MARTON, IL 62959 ATTN: RICK SHAW TEL#: (618) 997-0253	WOODLAWN VILLAGE OF P.O. BOX 209 WOODLAWN, IL 62698 ATTN: JERRY HART TEL#: (618) 735-2110 CELL: (618) 231-2434


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

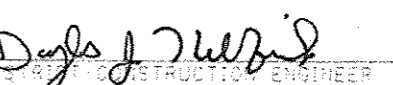
PREPARED BY: 
DISTRICT STUDIES & LANS ENGINEER


EXAMINED BY: 
DISTRICT LAND ACQUISITION ENGINEER

EXAMINED BY: 
DISTRICT PROGRAM DEVELOPMENT ENGINEER

EXAMINED BY: 
DISTRICT OPERATIONS ENGINEER

EXAMINED BY: 
DISTRICT PROJECT IMPLEMENTATION ENGINEER

EXAMINED BY: 
DISTRICT CONSTRUCTION ENGINEER

EXAMINED BY: 
DISTRICT MATERIALS ENGINEER

DESIGNED: T.W.K.	REVISED: 10/21/2016	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX, GENERAL NOTES AND HIGHWAY STANDARDS ILLINOIS ROUTE 15	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED: L.A.P.	DATE: 09/21/16			821	128-1	JEFFERSON	57	2
SCALE: SHEET NO. OF SHEETS STA. TO STA.			CONTRACT NO. 78119		ILLINOIS FEB. 10 PRO. CT			

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0011	
		UNIT	041-0109 80% FEDERAL 20% STATE
20200100	EARTH EXCAVATION	CU YD	459
20300100	CHANNEL EXCAVATION	CU YD	200
25000210	SEEDING, CLASS 2A	ACRE	0.5
25000350	SEEDING, CLASS 7	ACRE	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	46
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	32
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	32
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1
25100115	MULCH, METHOD 2	ACRE	0.75
25100900	TURF REINFORCEMENT MAT	SQ YD	139
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	138
28000305	TEMPORARY DITCH CHECKS	FOOT	198
28000400	PERIMETER EROSION BARRIER	FOOT	769
28100107	STONE RIPRAP, CLASS A4	SQ YD	12

14

^ SEE SPECIAL PROVISIONS

FILE NAME * 78119-sh1-500.dgn	USER NAME * #USER*	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES ILLINOIS ROUTE 15		F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3089 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62765 ILLINOIS PROFESSIONAL DESIGN FIRM L87/PE/SE CORP. 184.000658	PLOT SCALE * #SCALE*	DRAWN - T.W.K.	REVISED -		SCALE:	SHEET NO. 1 OF 7 SHEETS	STA.	821	128-1	JEFFERSON	56	3
	CHECKED - L.A.P.	DATE - 09/21/16	REVISED -				TO STA.	CONTRACT NO. 78119				
	PLOT DATE * 9/21/2016							ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0011	
		UNIT	041-0109 80% FEDERAL 20% STATE
51201800	FURNISHING STEEL PILES HP14x73	FOOT	1768
51202305	DRIVING PILES	FOOT	1768
51203800	TEST PILE STEEL HP14x73	EACH	2
51204650	PILE SHOES	EACH	32
51500100	NAME PLATES	EACH	1
52200010	TEMPORARY SHEET PILING	SQ FT	405
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	97
54215547	METAL END SECTIONS 12"	EACH	2
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	56
60100945	PIPE DRAINS 12"	FOOT	20
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	6.6
61000115	TYPE E INLET BOX, STANDARD 610001	EACH	2
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	25
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEM

14

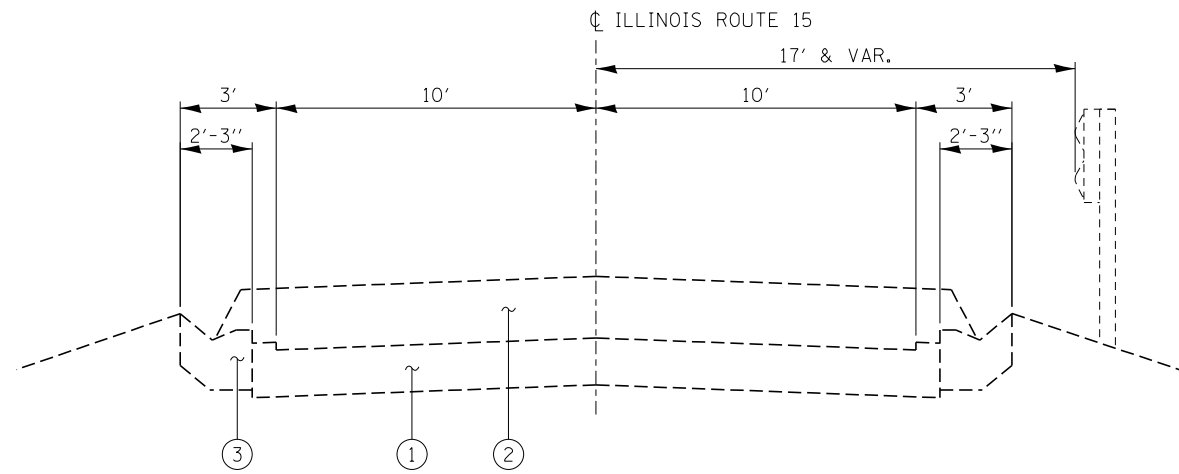
SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0011	
		UNIT	041-0109 80% FEDERAL 20% STATE
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	543
66201120	CONCRETE SHOULDER CURB	FOOT	29
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6
67100100	MOBILIZATION	LSUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LSUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	6
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	6
70200100	NIGHTTIME WORK ZONE LIGHTING	LSUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	176
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	58

^ SEE SPECIAL PROVISIONS

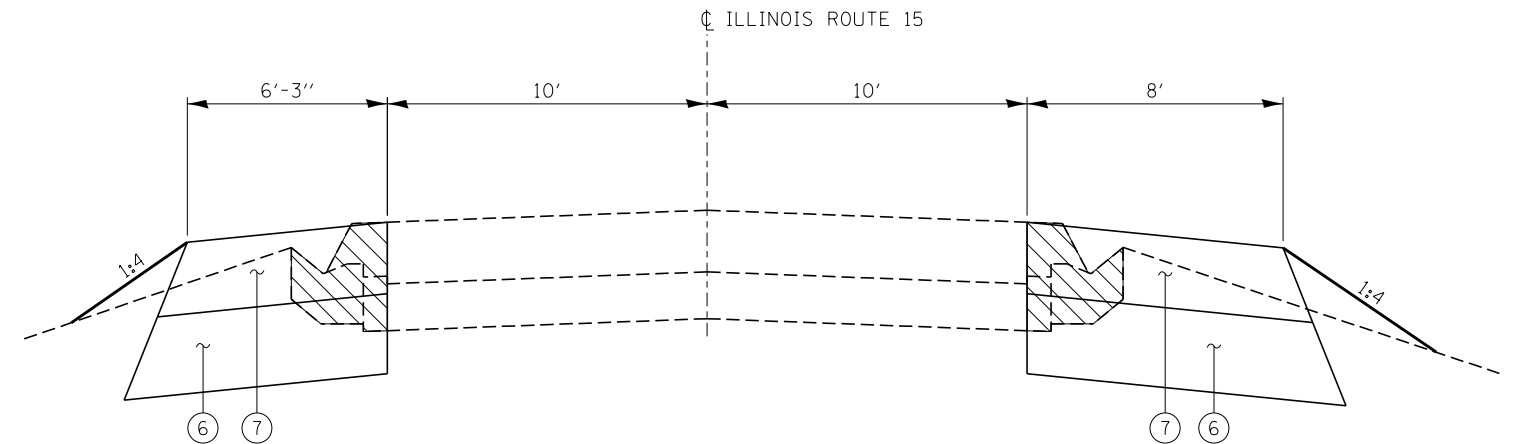
* SPECIALTY ITEM

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	CONSTRUCTION TYPE CODE 0011
			041-0109 80% FEDERAL 20% STATE
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2773
70400100	TEMPORARY CONCRETE BARRIER	FOOT	525
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	512.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2773
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	9
* 78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	2
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	4
* 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	4
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	10
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
X0324744	REMOVAL OF EXISTING PRECAST CONCRETE UNITS	SQ FT	300

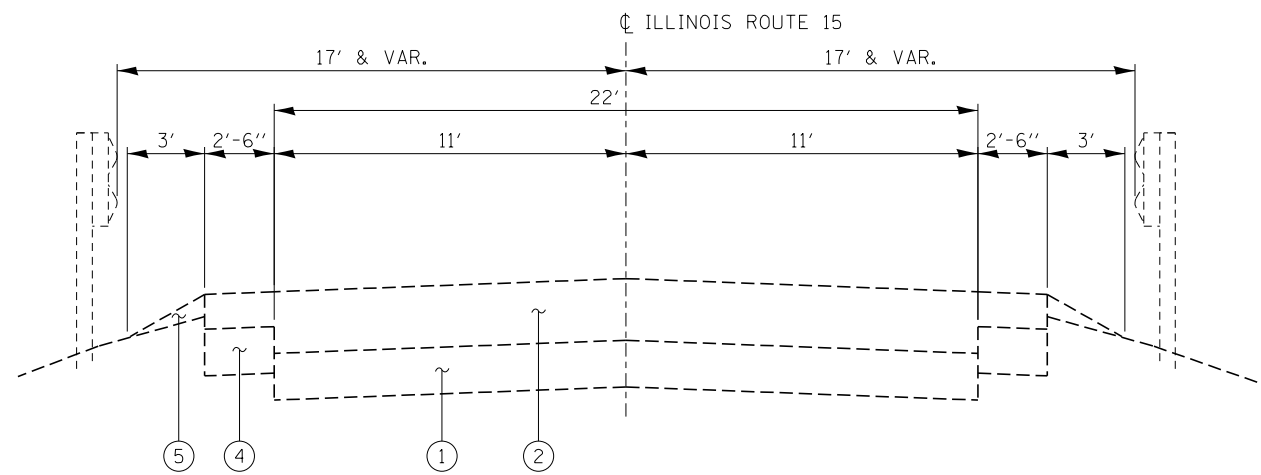
1d ^ SEE SPECIAL PROVISIONS
* SPECIALTY ITEM



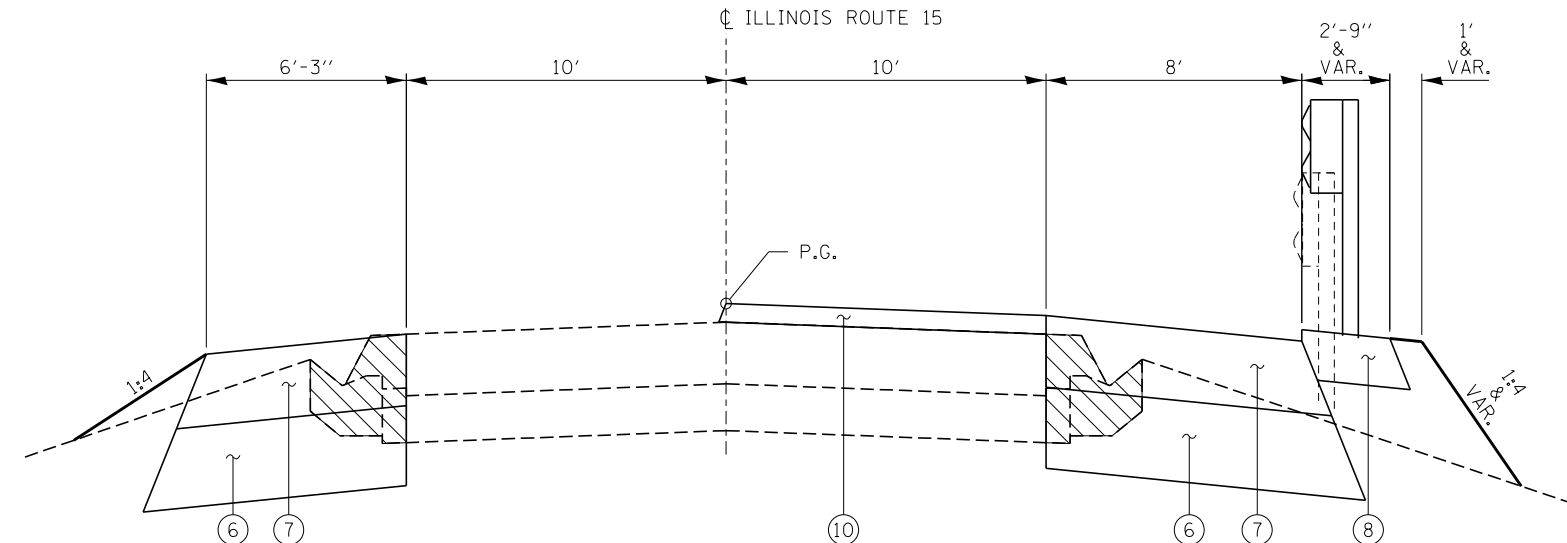
EXISTING CROSS SECTION
STA. 990+27 TO STA. 993+30



STAGE 1 PROPOSED CROSS SECTION
STA. 991+50 TO STA. 992+35



EXISTING CROSS SECTION
STA. 993+30 TO STA. 994+86.58
STA. 995+53.42 TO STA. 999+00



STAGE 1 PROPOSED CROSS SECTION
STA. 992+35 TO STA. 993+30

NOTE: ALL CROSS SECTIONS ARE SHOWN
LOOKING UP STATION (EAST).

LEGEND

- ① EXISTING PCC PAVEMENT (7")
 - ② EXISTING HMA PAVEMENT (7 3/4")
 - ③ EXISTING PCC GUTTER
 - ④ EXISTING HMA SHOULDER
 - ⑤ EXISTING AGGREGATE SHOULDER
 - ⑥ SUBBASE GRANULAR MATERIAL, TYPE A (12")
 - ⑦ BASE COURSE WIDENING (10 3/4")
 - ⑧ HMA SHOULDER (8")
 - ⑨ HMA SURFACE COURSE MIX "D", N70 (1 1/2" MIN.)
 - ⑩ HMA BINDER COURSE IL 19.0, N70 (2 1/4" MIN.)
 - ⑪ BRIDGE APPROACH SLAB AND HMA CONNECTOR
 - ⑫ EXISTING PCC PAVEMENT (10")
 - ⑬ EXISTING PRECAST CONCRETE SLAB
- INDICATES ITEM TO BE REMOVED

HMA MIXTURE REQUIREMENTS					
LOCATION:	IL 15 / FAP 821	IL 15 / FAP 821	IL 15 / FAP 821	IL 15 / FAP 821	IL 15 / FAP 821
MIXTURE USE(S):	HMA BASE COURSE WIDENING	HMA SURFACE COURSE MIX "C", N70	HMA BINDER COURSE IL-19.0, N70	HMA SHOULDERS (TOP LIFT)	HMA SHOULDERS (LOWER LIFTS)
PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ Ndes 70	4% @ Ndes 70	4% @ Ndes 70	4% @ Ndes 30	4% @ Ndes 30
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 19.0	IL 9.5	IL 19.0	IL-9.5L	IL-19.0L
FRICTION AGGREGATE:	NONE	MIXTURE C	NONE	NONE	NONE
MIXTURE WEIGHTS:	112 LBS \ SY \ INCH THICKNESS	112 LBS \ SY \ INCH THICKNESS	112 LBS \ SY \ INCH THICKNESS	112 LBS \ SY \ INCH THICKNESS	112 LBS \ SY \ INCH THICKNESS
QUALITY CONTROL PROGRAM:	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA

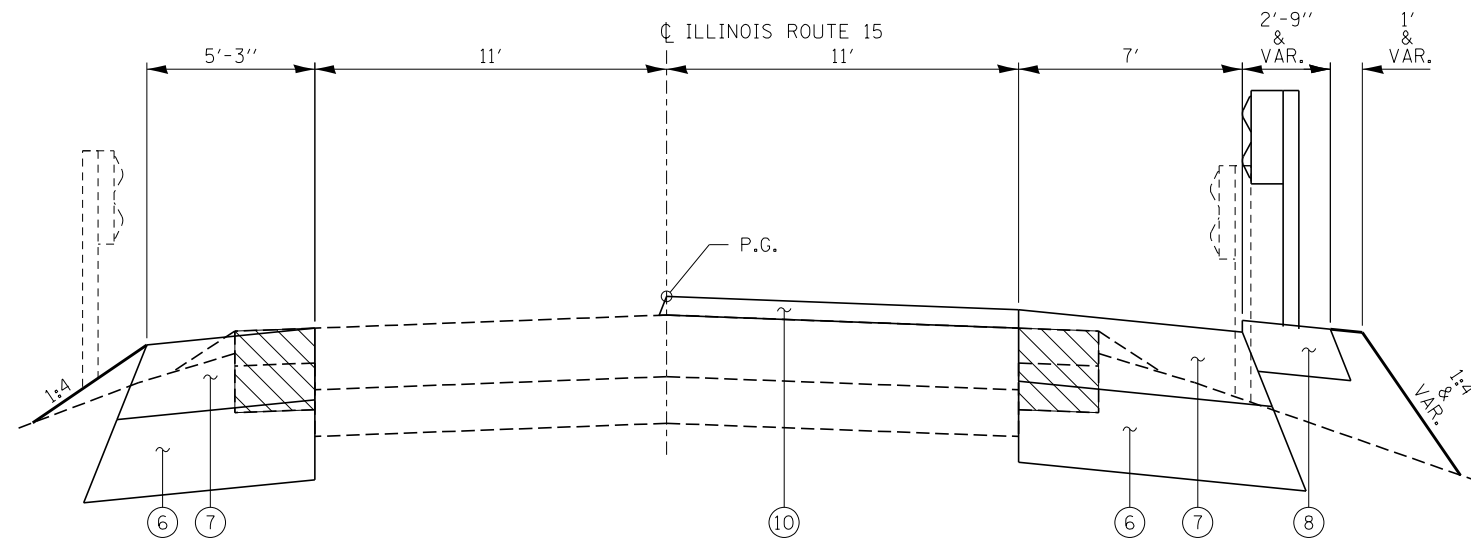
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HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = *SCALE*	DRAWN - T.W.K.	REVISED -
	PLOT DATE = 9/21/2016	CHECKED - L.A.P.	REVISED -
		DATE - 09/21/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
ILLINOIS ROUTE 15**

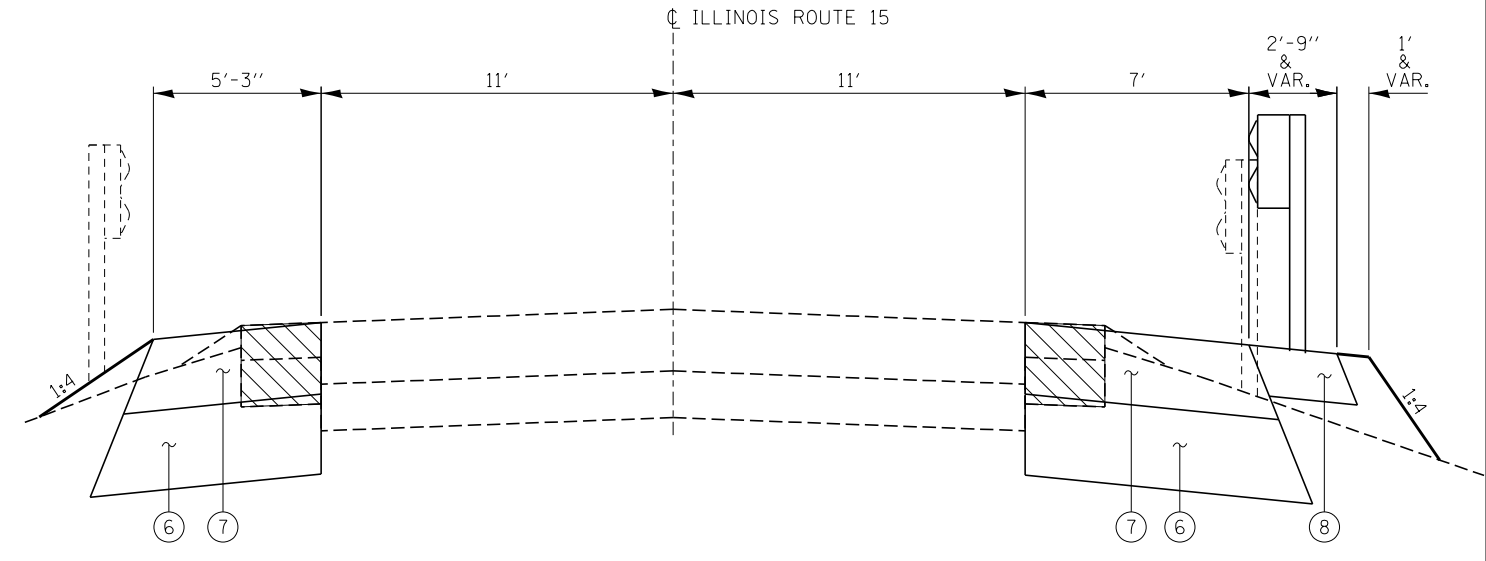
SCALE: SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	10
CONTRACT NO. 78119				
ILLINOIS FED. AID PROJECT				



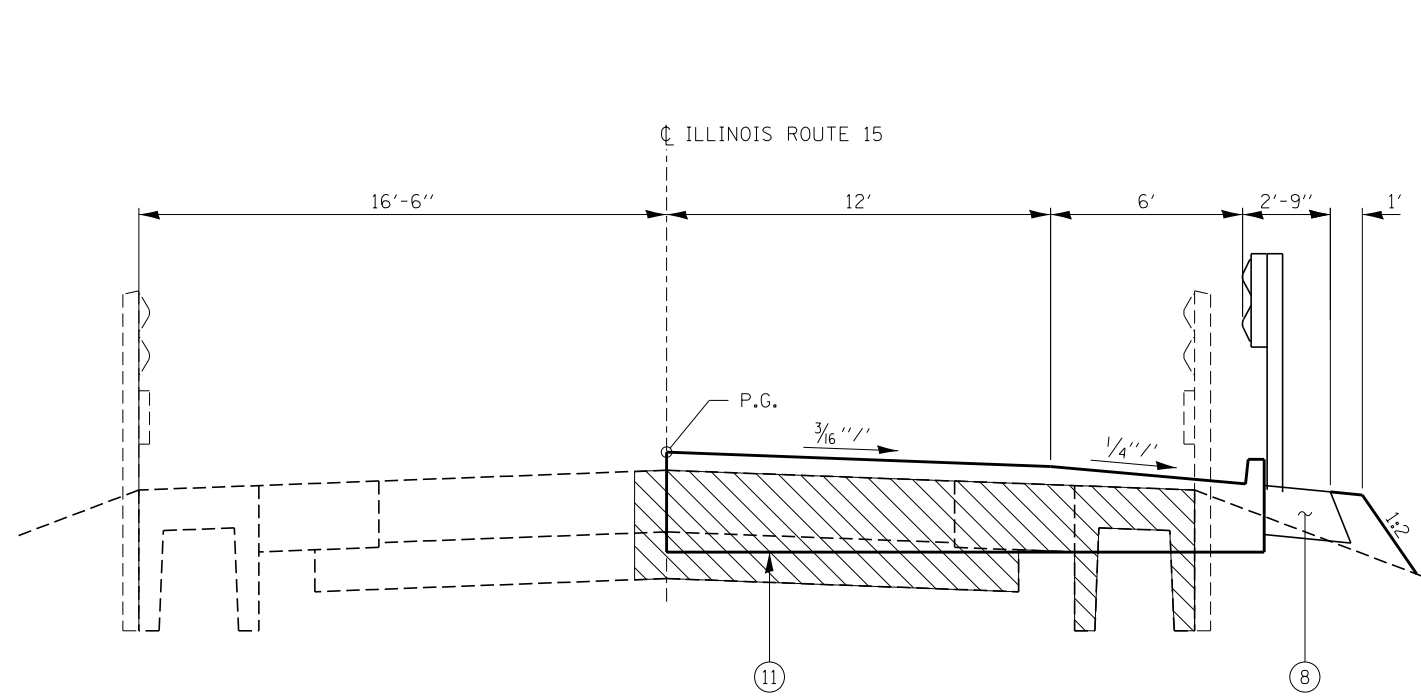
STAGE 1 PROPOSED CROSS SECTION

STA. 993+30 TO STA. 994+27.06
 STA. 995+93.94 TO STA. 996+40



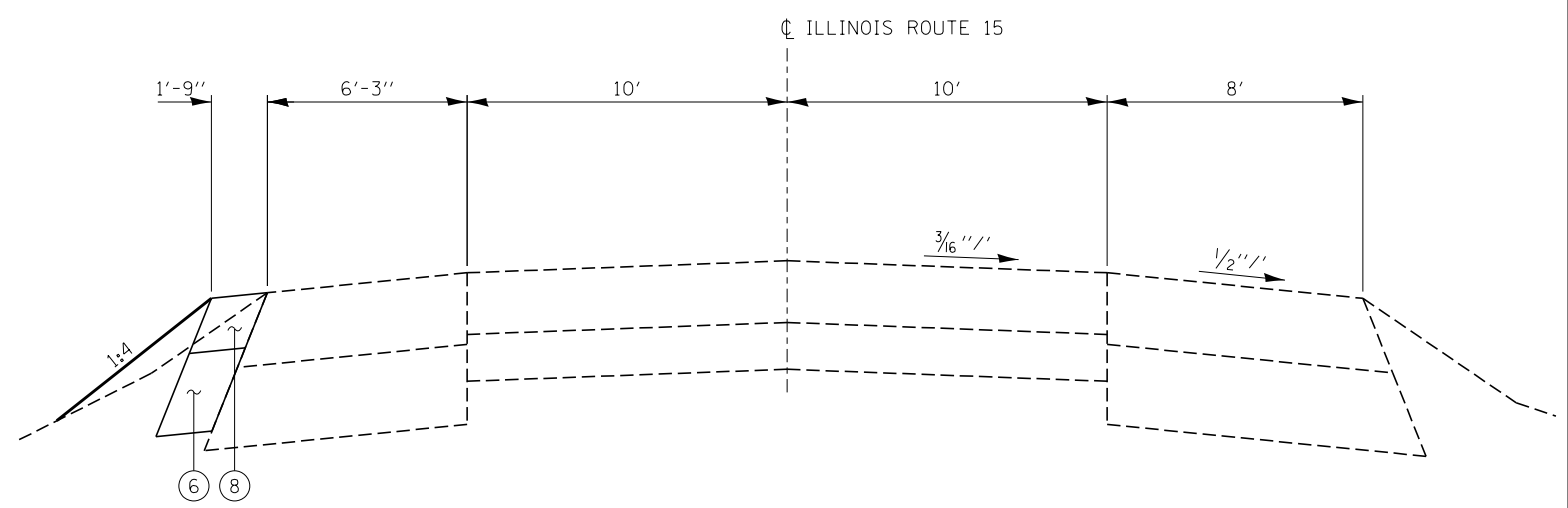
STAGE 1 PROPOSED CROSS SECTION

STA. 996+40 TO STA. 997+60



STAGE 1 PROPOSED CROSS SECTION

STA. 994+27.06 TO STA. 994+37.06 (HMA CONNECTOR)
 STA. 994+37.06 TO STA. 994+67.06
 STA. 995+53.94 TO STA. 995+83.94
 STA. 995+83.94 TO STA. 995+93.94 (HMA CONNECTOR)



STAGE 2 PROPOSED CROSS SECTION

STA. 991+50 TO STA. 992+35

NOTE: ALL CROSS SECTIONS ARE SHOWN
 LOOKING UP STATION (EAST).

LEGEND

- ① EXISTING PCC PAVEMENT (7")
- ⑨ HMA SURFACE COURSE MIX "D", N70 (1 1/2" MIN.)
- ② EXISTING HMA PAVEMENT (7 3/4")
- ⑩ HMA BINDER COURSE IL 19.0, N70 (2 1/4" MIN.)
- ③ EXISTING PCC GUTTER
- ⑪ BRIDGE APPROACH SLAB AND HMA CONNECTOR
- ④ EXISTING HMA SHOULDER
- ⑫ EXISTING PCC PAVEMENT (10")
- ⑤ EXISTING AGGREGATE SHOULDER
- ⑬ EXISTING PRECAST CONCRETE SLAB
- ⑥ SUBBASE GRANULAR MATERIAL, TYPE A (12")
- ▨ INDICATES ITEM TO BE REMOVED
- ⑦ BASE COURSE WIDENING (10 3/4")
- ⑧ HMA SHOULDER (8")

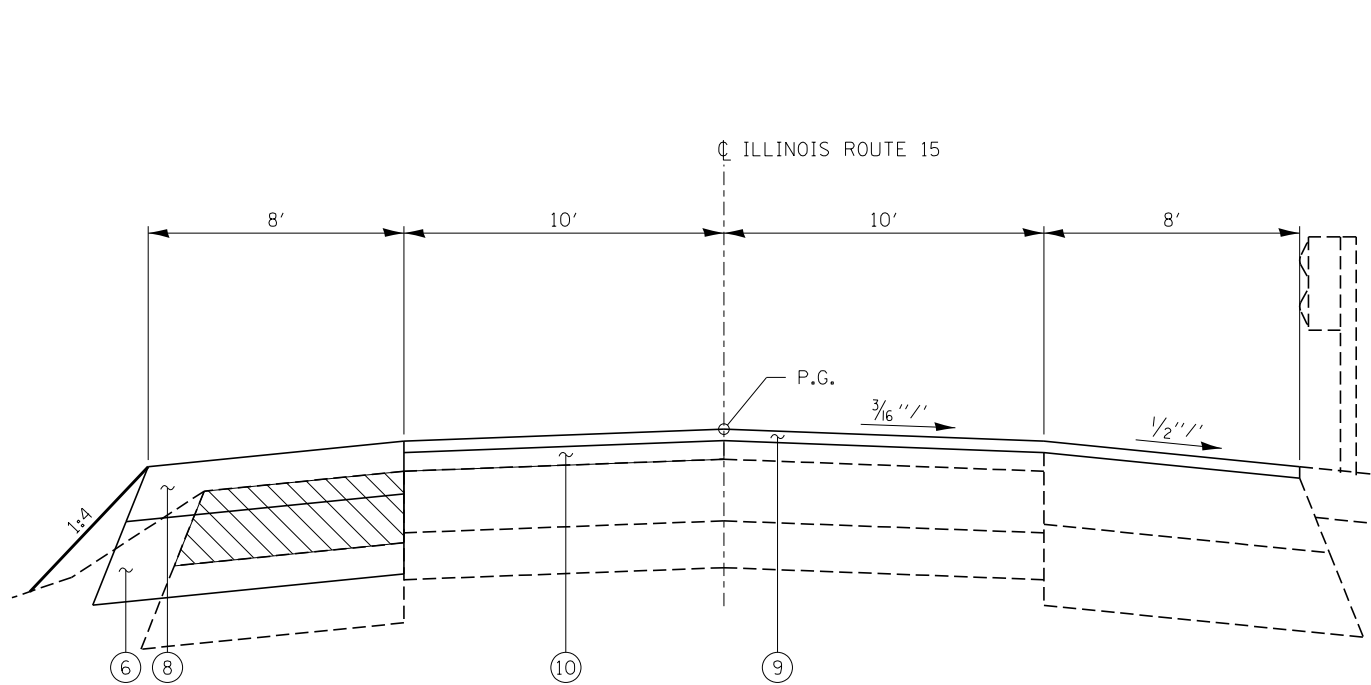
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HAMPSON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - T.W.K.	REVISED -
PLOT SCALE = *SCALE*		CHECKED - L.A.P.	REVISED -
PLOT DATE = 9/21/2016		DATE - 09/21/16	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
 ILLINOIS ROUTE 15**

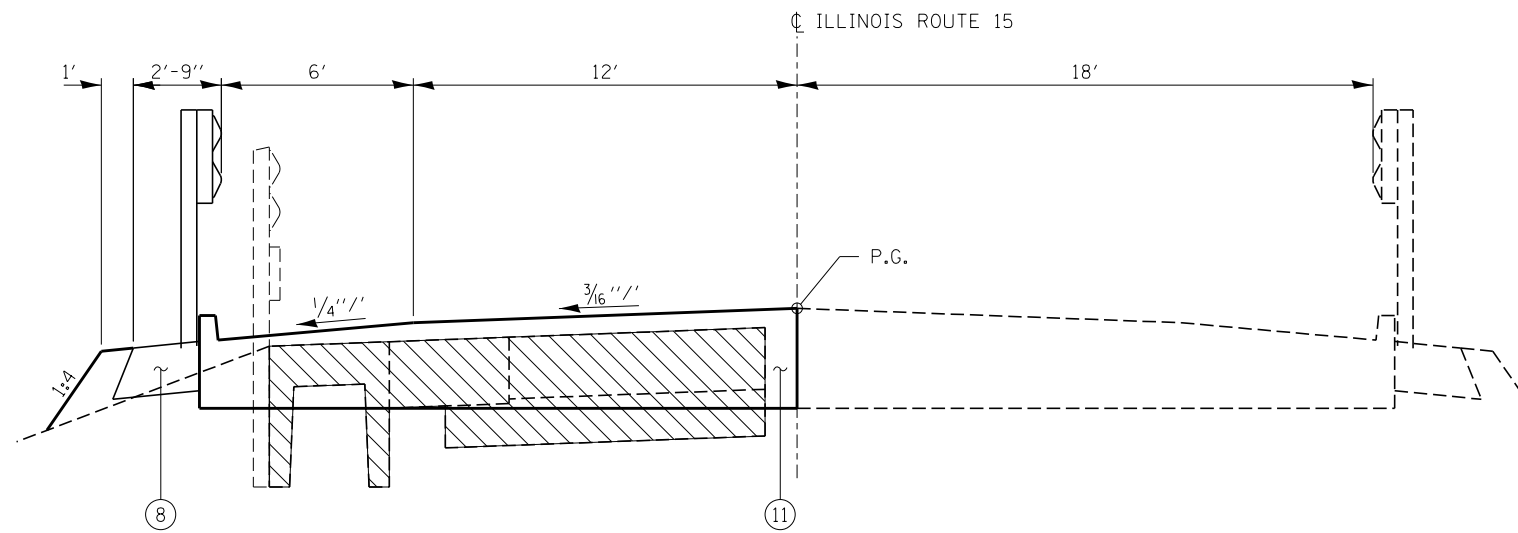
SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	11
CONTRACT NO. 78119				
ILLINOIS FED. AID PROJECT				

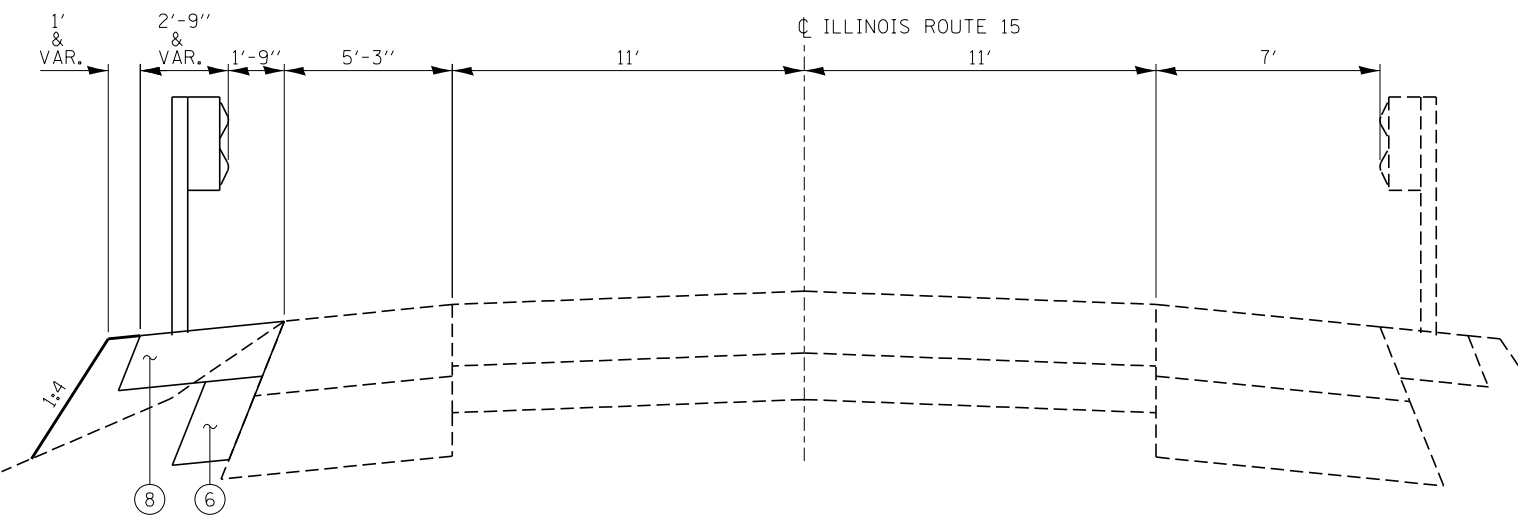


STAGE 2 PROPOSED CROSS SECTION
STA. 992+35 TO STA. 993+30

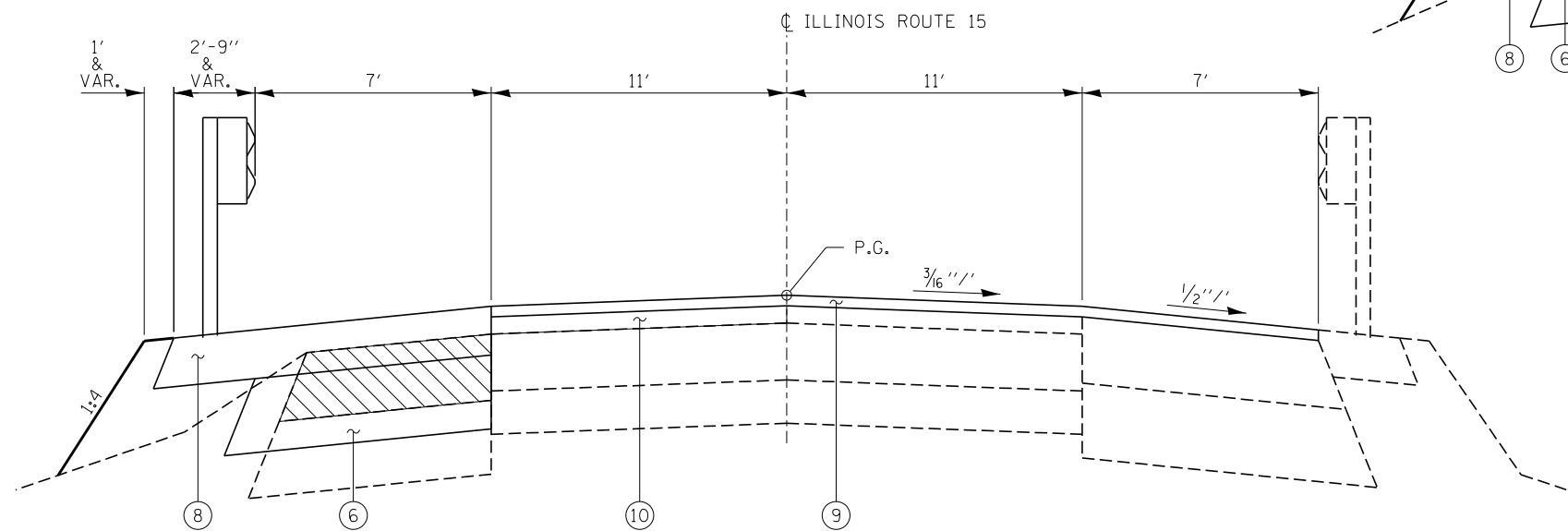
NOTE: REMOVAL OF BASE COURSE WIDENING IN STAGE 2
LT. STA. 992+30 TO LT. STA. 995+94.29 PAID
FOR AS PAVED SHOULDER REMOVAL.



STAGE 2 PROPOSED CROSS SECTION
STA. 994+27.06 TO STA. 994+37.06 (HMA CONNECTOR)
STA. 994+37.06 TO STA. 994+67.06
STA. 995+53.94 TO STA. 995+83.94
STA. 995+83.94 TO STA. 995+93.94 (HMA CONNECTOR)



STAGE 2 PROPOSED CROSS SECTION
STA. 996+30 TO STA. 997+60



STAGE 2 PROPOSED CROSS SECTION
STA. 993+30 TO STA. 994+27.06
STA. 995+93.94 TO STA. 996+30

NOTE: ALL CROSS SECTIONS ARE SHOWN
LOOKING UP STATION (EAST).

LEGEND

- ① EXISTING PCC PAVEMENT (7")
 - ② EXISTING HMA PAVEMENT (7 3/4")
 - ③ EXISTING PCC GUTTER
 - ④ EXISTING HMA SHOULDER
 - ⑤ EXISTING AGGREGATE SHOULDER
 - ⑥ SUBBASE GRANULAR MATERIAL, TYPE A (12")
 - ⑦ BASE COURSE WIDENING (10 3/4")
 - ⑧ HMA SHOULDER (8")
 - ⑨ HMA SURFACE COURSE MIX "D", N70 (1 1/2" MIN.)
 - ⑩ HMA BINDER COURSE IL 19.0, N70 (2 1/4" MIN.)
 - ⑪ BRIDGE APPROACH SLAB AND HMA CONNECTOR
 - ⑫ EXISTING PCC PAVEMENT (10")
 - ⑬ EXISTING PRECAST CONCRETE SLAB
- ▨ INDICATES ITEM TO BE REMOVED

FILE NAME = 78119-sht-typical.dgn	USER NAME = *USER*	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = *SCALE*	DRAWN - T.W.K.	REVISED -
	PLOT DATE = 9/21/2016	CHECKED - L.A.P.	REVISED -
		DATE - 09/21/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
ILLINOIS ROUTE 15**

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	12
CONTRACT NO. 78119				
ILLINOIS FED. AID PROJECT				

ROADWAY SCHEDULE

LOCATION	SUBBASE GRANULAR MATERIAL TYPE A 12"	HOT-MIX ASPHALT BASE COURSE WIDENING 10 3/4"	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT	TEMPORARY RAMP	HOT-MIX ASPHALT BINDER COURSE IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE MIX "C", N70	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	PAVEMENT REMOVAL	GUTTER REMOVAL	PAVED SHOULDER REMOVAL	HOT-MIX ASPHALT SHOULDERS 8"	CLASS SI CONCRETE (OUTLET)	REMOVAL OF EXISTING PRECAST CONCRETE UNITS
	31100910	35600719	40600275	40600290	40600982	40600990	40603085	40603315	42000070	44000100	44000400	44004250	48203029	60600095	X0324744
	SQ YD	SQ YD	POUND	POUND	SQ YD	SQ YD	TON	TON	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	CU YD	SQ FT
FAP 821 / IL 15															
STAGE 1															
RT. STA 991+26 TO STA 994+37.06	251	224	564	248		18	91		20	64	214	34	38	3.3	75
RT. STA 995+83.94 TO STA 997+60	148	131	332	59		32			20	41		55	34		75
LT. STA 991+26 TO STA 994+86.58	250	216	562	97							229	41		3.3	
LT. STA 995+53.42 TO STA 997+60	141	121	317	54								48			
STAGE 2															
LT. STA 991+50 TO STA 994+37.06	207		485	147		14			20	64		150	210		75
LT. STA 995+83.94 TO STA 997+60	26		93			20			20	41		24	68		75
CL. STA 991+50 TO STA 994+37.06				274	97	16	91	55							
CL. STA 995+83.94 TO STA 997+60				52	97	16		13							
TOTAL	1023	692	2353	931	194	116	182	68	80	210	443	352	350	6.6	300

28000400 PERIMETER EROSION BARRIER

LOCATION	FOOT
FAP 821 / IL 15	
RT. STA 993+75 TO STA 994+50	76
RT. STA 995+25 TO STA 997+60	231
LT. STA 992+75 TO STA 995+25	258
LT. STA 995+25 TO STA 997+60	204
TOTAL	769

INLET SCHEDULE

LOCATION	STONE RIPRAP CLASS A4	FILTER FABRIC	PORTLAND CEMENT CONCRETE SHOULDERS, 8"	METAL END SECTIONS 12"	PIPE DRAINS 12"	TYPE E INLET BOX STANDARD 610001	CONCRETE SHOULDER CURB
	28100107	28200200	48300300	54215547	60100945	61000115	66201120
	SQ YD	SQ YD	SQ YD	EACH	FOOT	EACH	FOOT
FAP 821 / IL 15							
RT. STA 995+86.38	6	6	10	1	10	1	17
LT. STA 996+19.14	6	6	12	1	10	1	12
TOTAL	12	12	22	2	20	2	29

PAVEMENT MARKING SCHEDULE

LOCATION	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING, LINE 4"			PAINT PAVEMENT MARKING LINE 4"			RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	PAVEMENT MARKING REMOVAL - WATER BLASTING
			SOLID WHITE EDGE LINE	SKIP-DASH YELLOW CENTERLINE	SOLID YELLOW NO PASSING	SOLID WHITE EDGE LINE	SKIP-DASH YELLOW CENTERLINE	SOLID YELLOW NO PASSING				
			FOOT	FOOT	FOOT	FOOT	FOOT	FOOT				
FAP 821 / IL 15												
STAGE I												
LT. STA 990+58 TO STA 998+35											259	
LCL. STA 990+46 TO STA 998+97										10	109	
CL. STA 990+46 TO STA 998+97											27	
RT. STA 991+17.50 TO STA 998+61.50											192	
STAGE II												
LT. STA 990+46 TO STA 998+97			851			851					284	
LCL. STA 990+46 TO STA 998+97					851						284	
CL. STA 990+46 TO STA 998+97	176	58		220			220		9	2	73	
RT. STA 990+46 TO STA 998+97			851			851					284	
SUBTOTAL	176	58	1702	220	851	1702	220	851	9	2	1512	
TOTAL	176	58		2773			2773		9	2	1512	

28000305 TEMPORARY DITCH CHECKS

LOCATION	FOOT
FAP 821 / IL 15	
RT. STA 992+00.00	22
RT. STA 992+33.00	22
RT. STA 992+66.00	22
RT. STA 993+00.00	22
RT. STA 993+33.00	22
RT. STA 993+66.00	22
LT. STA 992+00.00	22
LT. STA 992+33.00	22
LT. STA 992+66.00	22
TOTAL	198

EARTHWORK SUMMARY							
LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	% USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE(25%)	EMBANKMENT REQUIRED	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	20200100 CU YD	20300100 CU YD			CU YD	CU YD	CU YD
FAP 821 / IL 15							
STAGE 1							
STA 991+26 TO STA 994+65.65	289		25.00%	100.00%	217	101	116
STA 995+55.35 TO STA 997+60	137		25.00%	100.00%	103	29	74
STAGE 2							
STA 991+26 TO STA 994+65.64	7		25.00%	100.00%	5	78	-73
STA 995+55.35 TO STA 997+60	26		25.00%	100.00%	20	45	-25
CHANNEL EXCAVATION		200	25.00%	70.00%	105		105
TOTAL	459	200			450	253	197

WASTE 197 CU.YD.

GUARDRAIL SCHEDULE							
LOCATION	STEEL PLATE BEAM GUARD RAIL TYPE A, 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL TYPE 6	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL MARKERS TYPE A	BARRIER WALL MARKERS TYPE B
	63000001 FOOT	63100085 EACH	63100167 EACH	63200310 FOOT	72501000 EACH	78200410 EACH	78200520 EACH
FAP 821 / IL 15							
RT. STA 993+25.29 TO STA 995+48.44	12.5	1	1	174	1	1	2
RT. STA 995+48.44 TO STA 996+47.21		1	1	98	1	1	
LT. STA 993+73.79 TO STA 995+85.44		1	1	99	1	1	2
LT. STA 995+85.44 TO STA 996+95.71	12.5	1	1	172	1	1	
TOTAL	25	4	4	543	4	4	4

SEEDING SCHEDULE									
LOCATION	SEEDING CLASS 2A SPECIAL	SEEDING CLASS 7	NITROGEN FERTILIZER NUTRIENT**	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH METHOD 2	TURF REINFORCEMENT MAT	TEMPORARY EROSION CONTROL SEEDING *
	25000210 ACRE	25000350 ACRE	25000400 POUND	25000500 POUND	25000600 POUND	25000700 TONS	25100115 ACRE	25100900 SQ YD	28000250 POUND
FAP 821 / IL 15									
RT. STA 991+26 TO STA 994+50	0.14	0.14	18	12	12	0.3	0.27	139	54
RT. STA 995+40 TO STA 997+60	0.05	0.05	7	5	5	0.1	0.10		20
LT. STA 991+26 TO STA 995+30	0.10	0.10	13	9	9	0.2	0.19		39
LT. STA 995+40 TO STA 997+60	0.06	0.06	8	6	6	0.1	0.13		25
TOTAL	0.35	0.35	46	32	32	0.7	0.69	139	138
USE	0.5	0.5	46	32	32	1	0.75	139	138

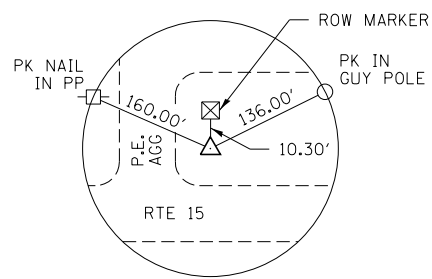
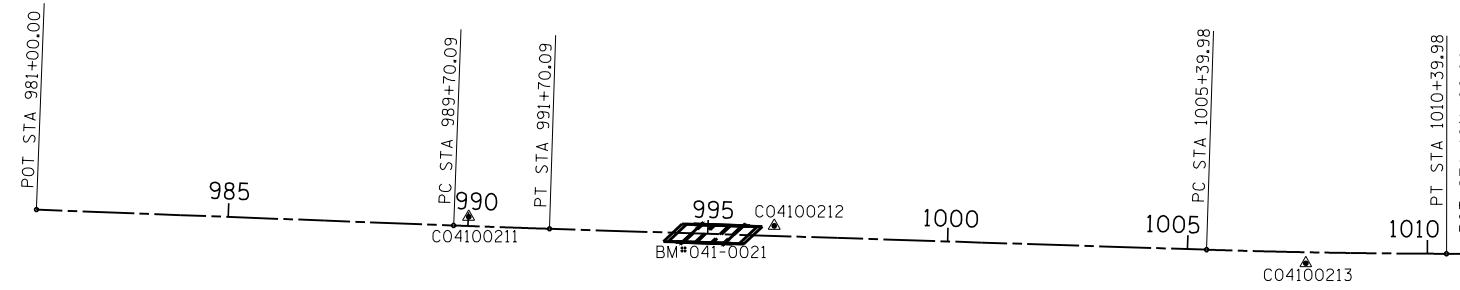
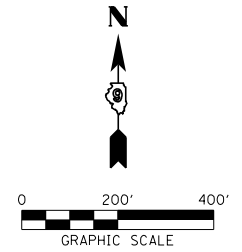
* 100 LBS/ACRE FOR 4 APPLICATIONS

** 90 LBS/ACRE FOR SEEDING CLASS 2A AND 40 LBS/ACRE FOR SEEDING CLASS 7

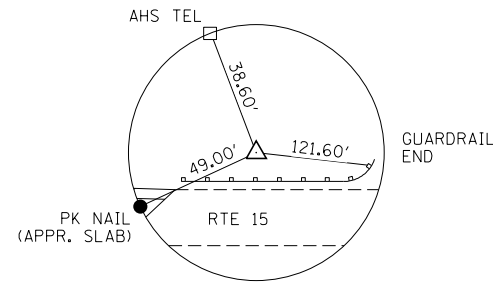
STAGING SCHEDULE					
LOCATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	IMPACT ATTENUATORS RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3	PINNING TEMPORARY CONCRETE BARRIER
	70400100 FOOT	70400200 FOOT	70600250 EACH	70600350 EACH	X7040125 EACH
FAP 821 / IL 15					
STAGE I					
RT. STA 991+70 TO RT. STA 997+55	525		2		30
STAGE II					
LT. STA 992+82.50 TO STA 997+55		513		2	48
TOTAL	525	512.5	2	2	78

CURVE DATA
 PI STA. 990+70.09
 $\Delta = 0^\circ 20' 48''$ (LT)
 $D = 0^\circ 10' 24''$
 $T = 100.00'$
 $R = 33,062.30'$
 $L = 200.00'$
 $E = 0.15'$
 PC STA. 989+70.09
 PT STA. 991+70.09
 S.E. = NORMAL CROWN

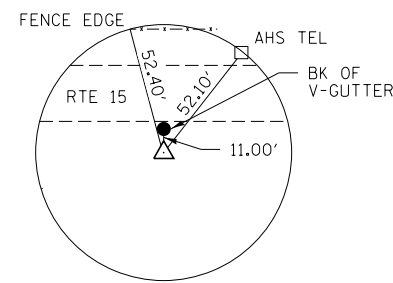
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 $D = 0^\circ 20' 24''$
 $T = 250.02'$
 $R = 16,851.70'$
 $L = 500.00'$
 $E = 1.85'$
 PC STA. 1005+39.98
 PT STA. 1010+39.98
 S.E. = NORMAL CROWN



IP/CAP
C04100211



IP/CAP
C04100212



IP/CAP
C04100213

ILLINOIS ROUTE 15			
DESCRIPTION	STATION	NORTHING	EASTING
POT	981+00.00	598244.251717	775722.630667
PI	990+70.09	598207.553670	776692.029686
PI	1007+90.00	598152.888335	778411.068003
POT	1011+00.00	598152.231472	778721.107308

CONTROL POINTS				
DESCRIPTION	STATION	OFFSET	NORTHING	EASTING
C04100211	990+00.70	19.16' LT	598229.338300	776623.358300
C04100212	996+37.86	21.03' LT	598210.505700	777260.211800
C04100213	1007+47.27	23.03' RT	598132.498600	778367.942500

BENCHMARKS

- BM#07151 "□" CUT TOP OF 30' RCCP X-ROAD CULV 31' LT., STA. 1025+50 ELEV. 446.79
- BM#041-0021 "□" CUT TOP OF STR SEAT S.E. SIDE 20' RT., STA. 995+00 ELEV. 449.17
- BM#07152 RR. SPIKE IN POWER POLE 30' LT., STA. 973+90 ELEV. 469.90

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HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = *SCALE*	DRAWN - T.W.K.	REVISED -
PLOT DATE = 9/21/2016	DATE = 09/21/16	CHECKED - L.A.P.	REVISED -
		DATE = 09/21/16	REVISED -

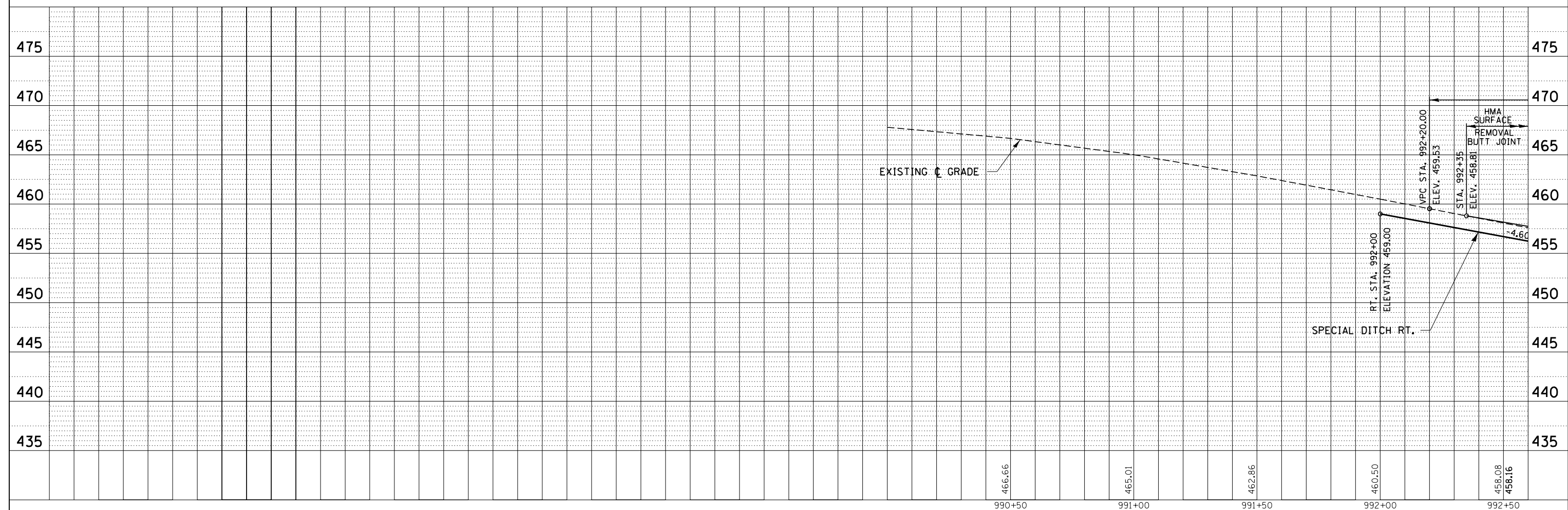
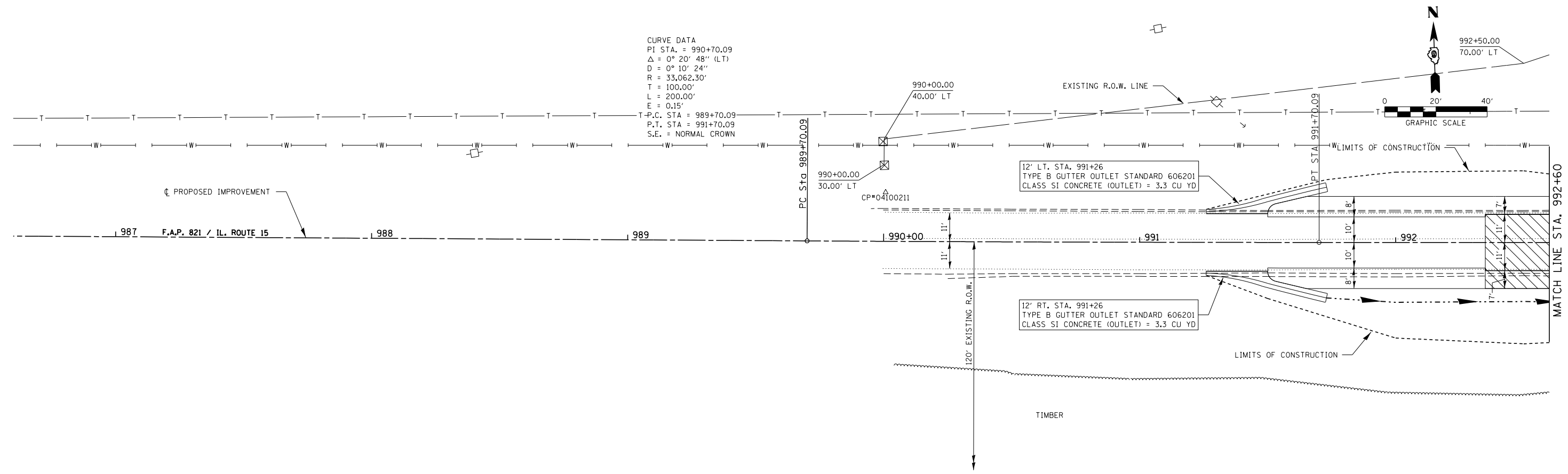
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS		F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ILLINOIS ROUTE 15		821	12B-1	JEFFERSON	57	15
SCALE: 1:200		SHEET NO. OF SHEETS		STA. TO STA.		CONTRACT NO. 78119
				FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILED		
	NO.		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE		
	NOT AT THIS OFFICE		
	NO.		

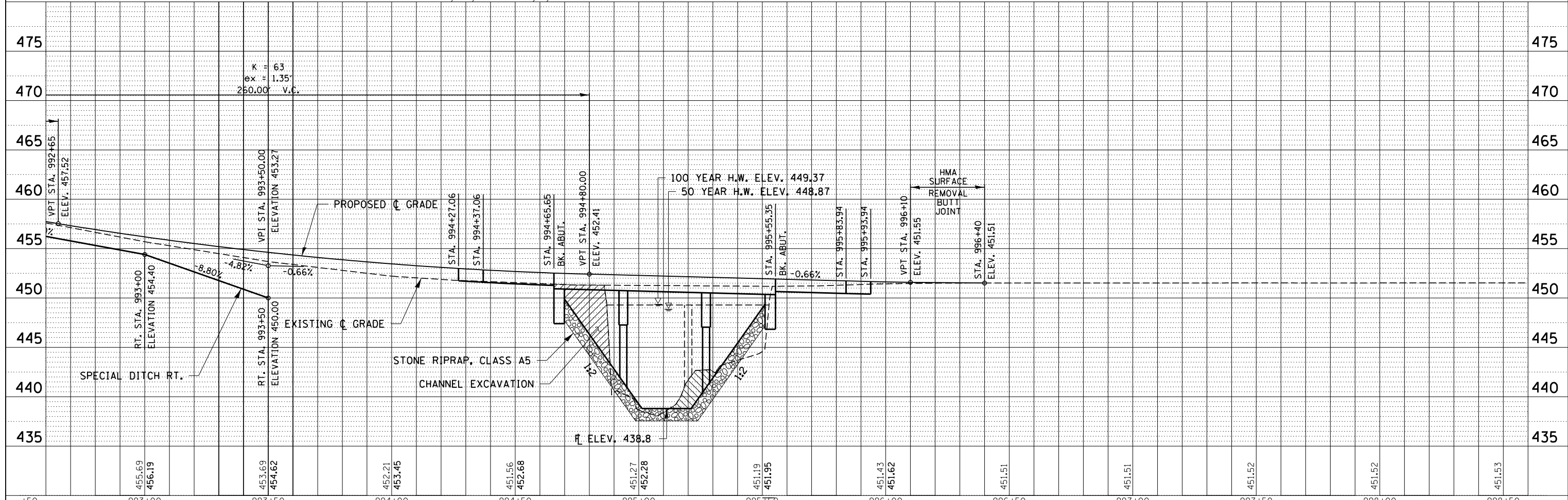
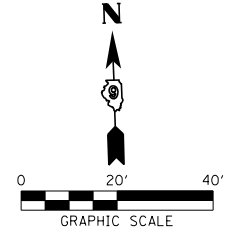
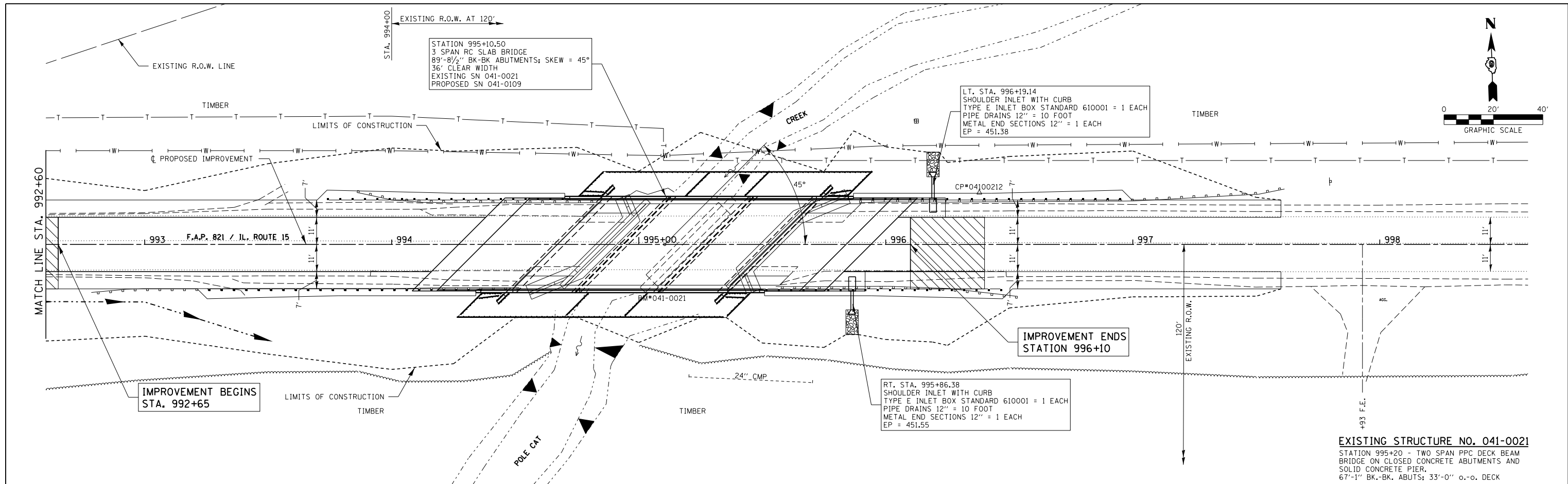
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 $D = 0^\circ 10' 24''$
 $R = 33,062.30'$
 $T = 100.00'$
 $L = 200.00'$
 $E = 0.15'$
 P.C. STA = 989+70.09
 P.T. STA = 991+70.09
 S.E. = NORMAL CROWN



FILE NAME = 78119-sht-plnprf.dgn	USER NAME = \$USER\$	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE ILLINOIS ROUTE 15	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62765 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = *SCALE*	DRAWN - T.W.K.	REVISED -			821	12B-1	JEFFERSON	57	16	
PLOT DATE = 9/21/2016	DATE = 09/21/16	CHECKED - L.A.P.	REVISED -			CONTRACT NO. 78119					
		DATE = 09/21/16	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS OK'D	
	NO.	



FILE NAME = 78119-sht-plnprf.dgn	USER NAME = *USER*	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -
3088 STEVENSON DRIVE, SUITE 201		CHECKED - L.A.P.	REVISED -
SPRINGFIELD, ILLINOIS 62703		DATE - 09/21/16	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM			
LS / PE / SE CORP. 184.000999			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

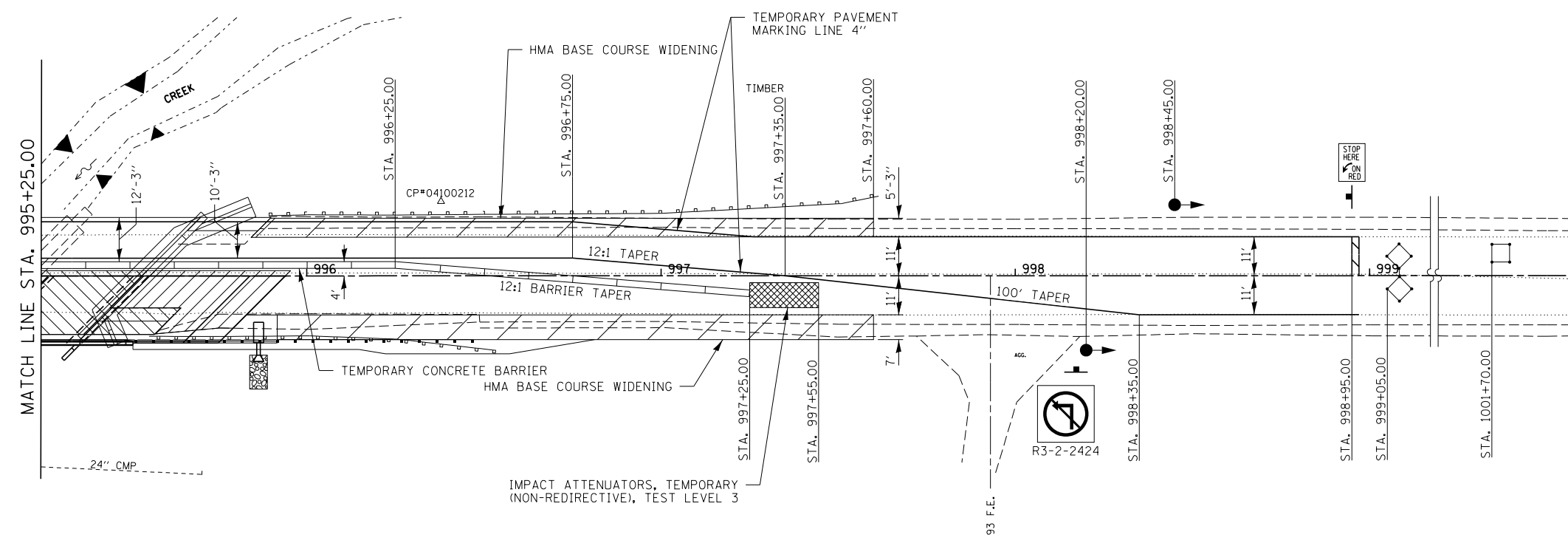
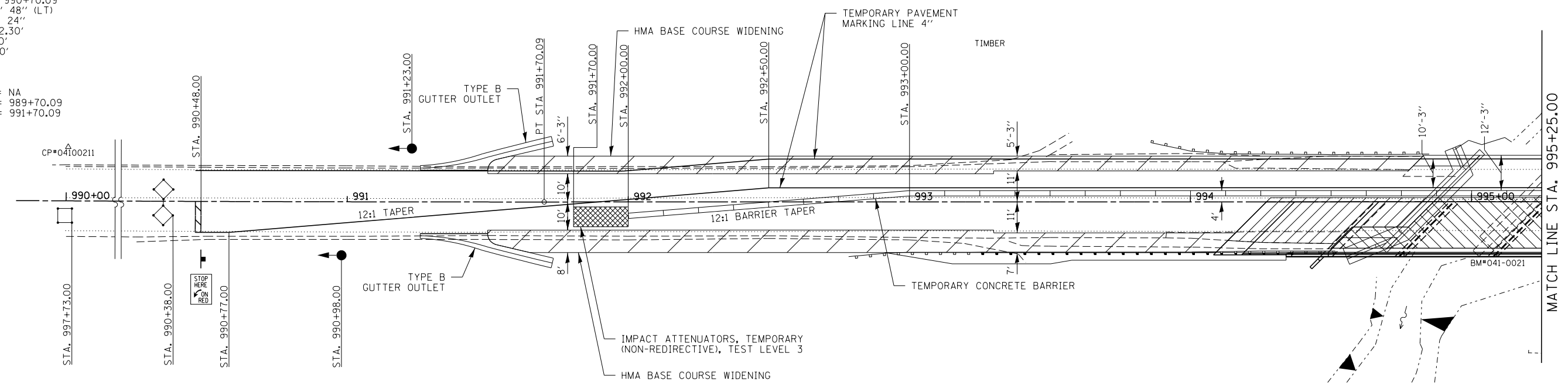
**PLAN & PROFILE
ILLINOIS ROUTE 15**

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	17
CONTRACT NO. 78119				

SCALE: 20H:5V SHEET NO. 2 OF 2 SHEETS STA. 992+60 TO STA. 998+60

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CURVE DATA
 PI STA. = 990+70.09
 $\Delta = 0^\circ 20' 48''$ (LT)
 $D = 0^\circ 10' 24''$
 $R = 33,062.30'$
 $T = 100.00'$
 $L = 200.00'$
 $E = 0.15'$
 $e = NA$
 $T.R. = NA$
 $S.E. RUN = NA$
 $P.C. STA = 989+70.09$
 $P.T. STA = 991+70.09$

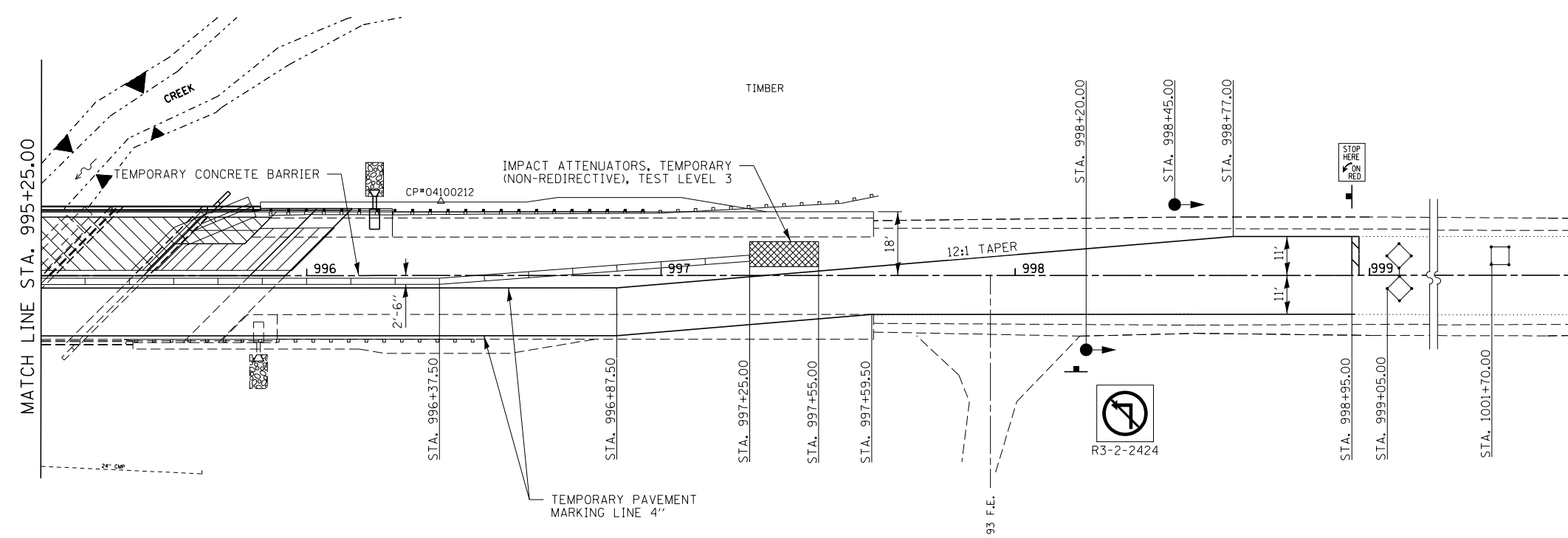
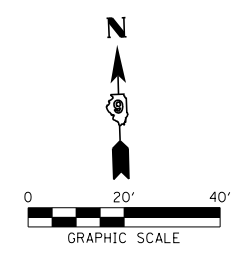
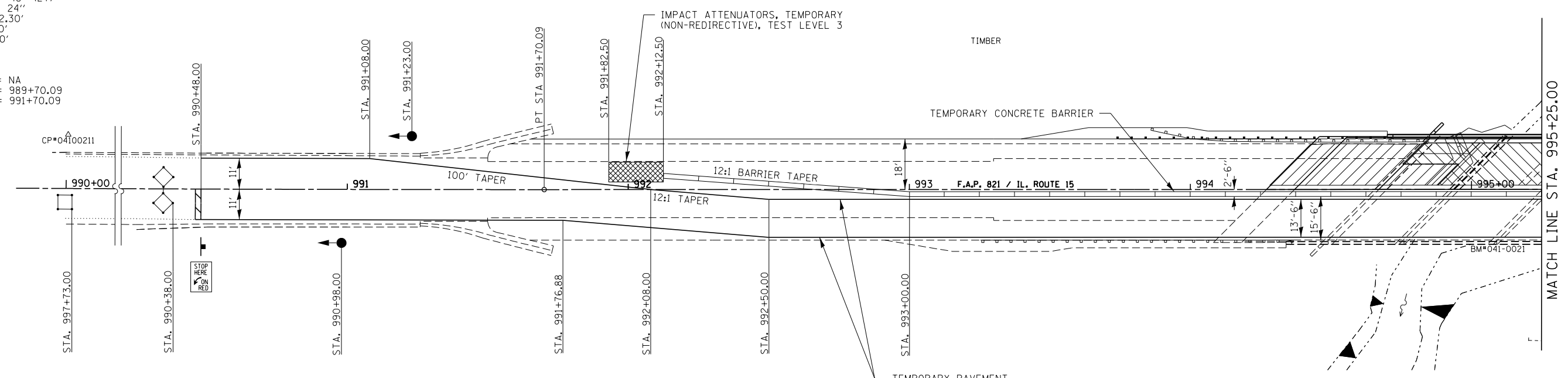


LEGEND

	PAVEMENT & SHOULDER REMOVAL
	EXISTING STRUCTURE REMOVAL
	BASE COURSE WIDENING

FILE NAME = 78119-sht-staging.dgn	USER NAME = \$USER\$	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN VIEW STAGE 1 ILLINOIS ROUTE 15	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -			821	12B-1	JEFFERSON	57	18	
PLOT DATE = 9/21/2016	DATE = 09/21/16	CHECKED - L.A.P.	REVISED -			CONTRACT NO. 78119					
						ILLINOIS FED. AID PROJECT					

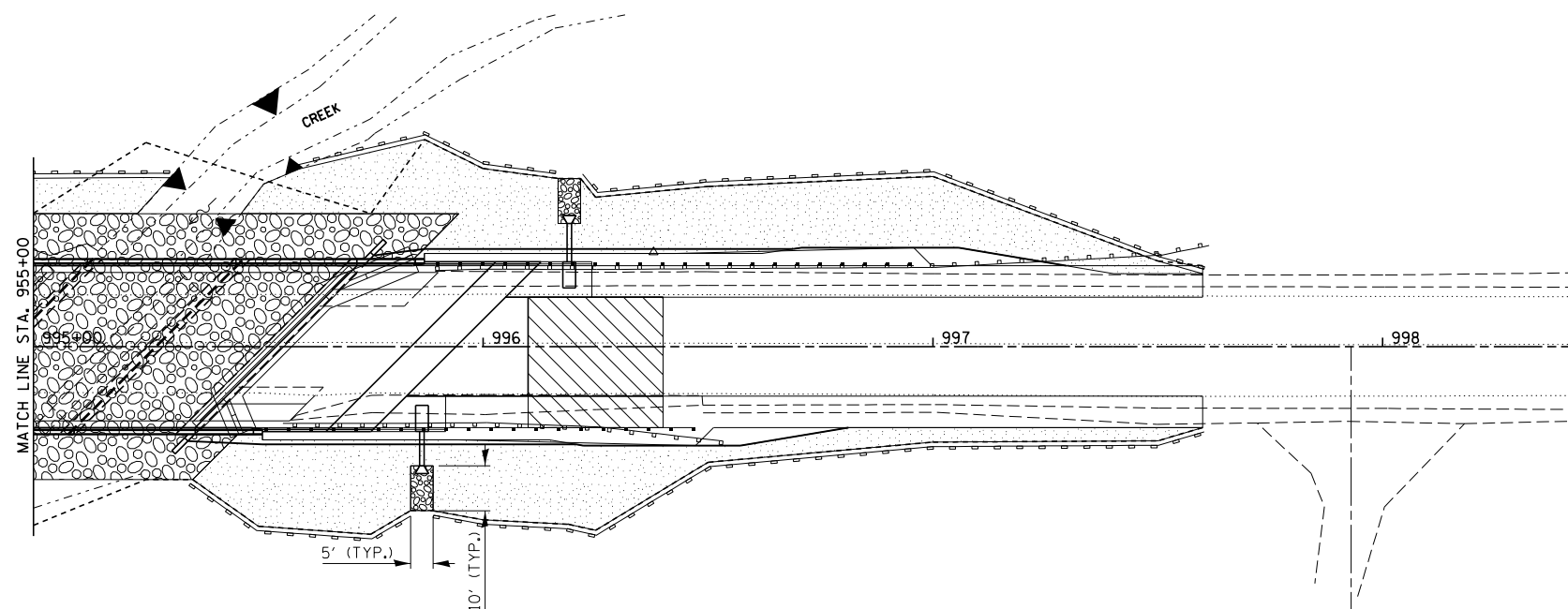
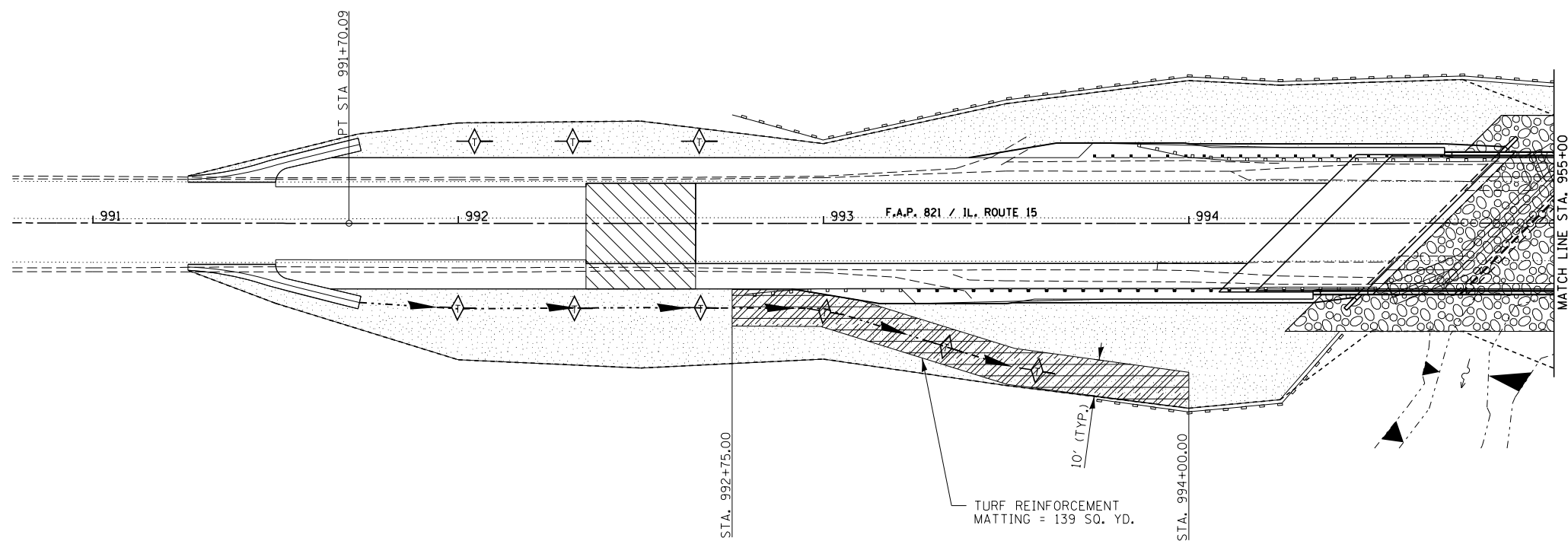
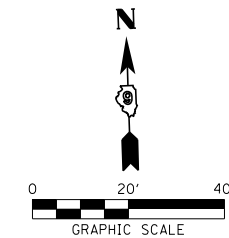
CURVE DATA
 PI STA. = 990+70.09
 $\Delta = 0^\circ 20' 48''$ (LT)
 $D = 0^\circ 10' 24''$
 $R = 33,062.30'$
 $T = 100.00'$
 $L = 200.00'$
 $E = 0.15'$
 $\theta = NA$
 $T.R. = NA$
 $S.E. RUN = NA$
 $P.C. STA = 989+70.09$
 $P.T. STA = 991+70.09$



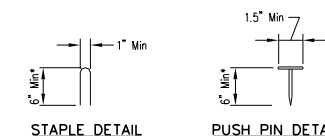
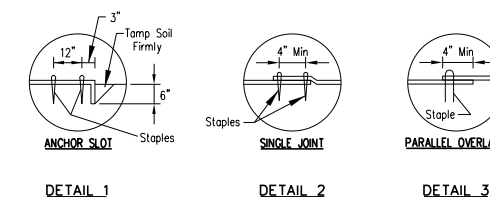
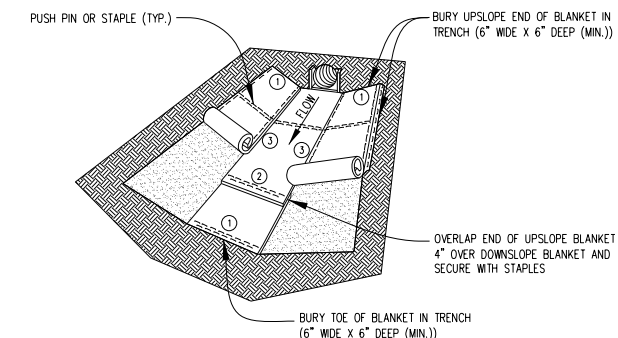
LEGEND

	PAVEMENT & SHOULDER REMOVAL
	EXISTING STRUCTURE REMOVAL
	BASE COURSE WIDENING

FILE NAME = 78119-sht-staging.dgn	USER NAME = *USER*	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN VIEW STAGE 2 ILLINOIS ROUTE 15	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = *SCALE*	DRAWN - T.W.K.	REVISED -			821	12B-1	JEFFERSON	57	19	
PLOT DATE = 9/21/2016	DATE = 09/21/16	CHECKED - L.A.P.	REVISED -			CONTRACT NO. 78119					
						ILLINOIS FED. AID PROJECT					



EROSION CONTROL BLANKET - TURF REINFORCEMENT MAT (TRM)



NOTE:
1. FOR SANDY SOIL CONDITIONS, STAPLE OR PUSH PIN SHALL BE A MINIMUM 8 INCHES.

LEGEND

- PERIMETER EROSION BARRIER
- CLASS 2A SEEDING
- TEMPORARY DITCH CHECK
- STONE RIPRAP, CLASS A4
- STONE RIPRAP, CLASS A5 (SEE BRIDGE PLANS FOR LAYOUT)
- TURF REINFORCEMENT MAT

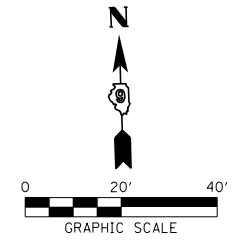
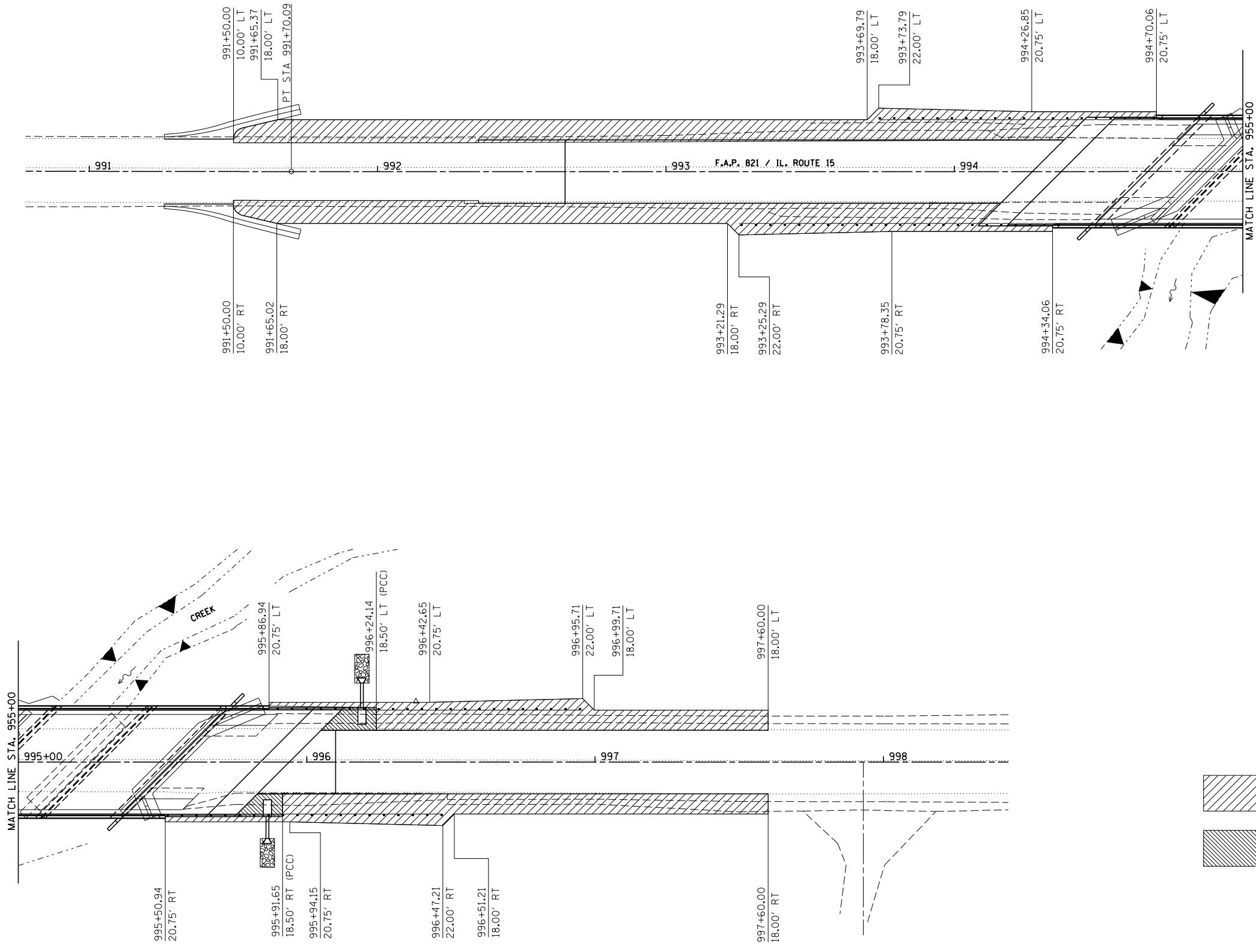
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PLOT DATE = 9/21/2016		CHECKED - L.A.P.	REVISED -
		DATE - 09/21/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL PLAN
ILLINOIS ROUTE 15

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

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	20
CONTRACT NO. 78119				
ILLINOIS FED. AID PROJECT				



LEGEND

	HMA SHOULDERS
	PORTLAND CEMENT CONCRETE SHOULDERS 8"

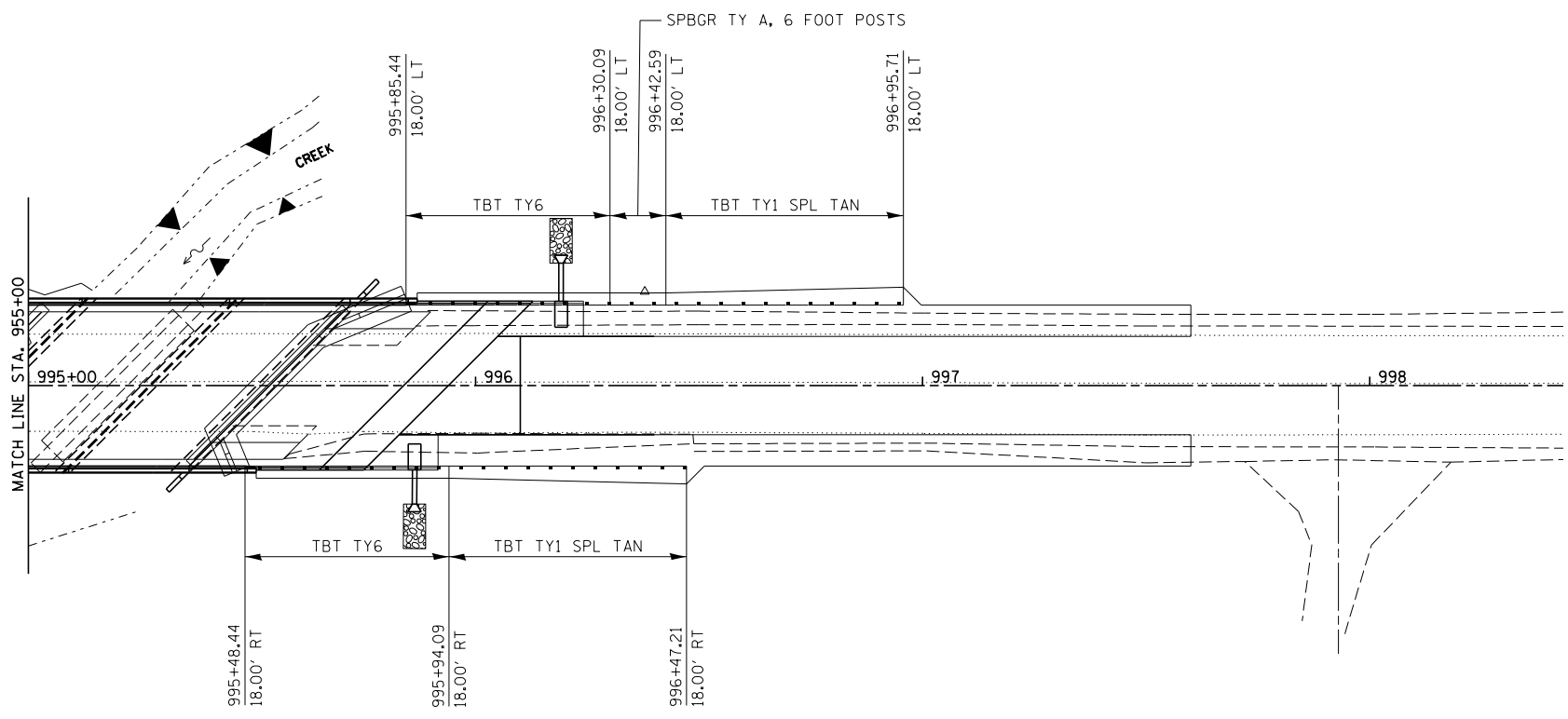
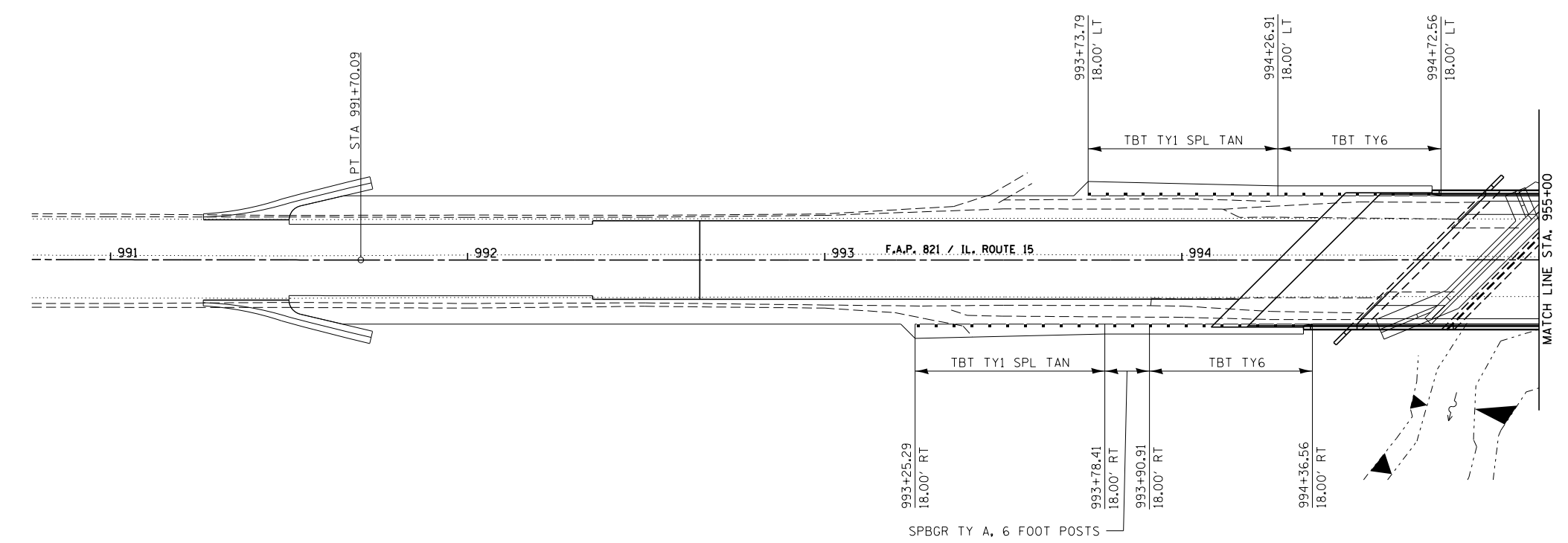
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	PLOT SCALE = *SCALE*	CHECKED - L.A.P.	REVISED -
	PLOT DATE = 9/21/2016	DATE - 09/21/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVED SHOULDER LAYOUT
ILLINOIS ROUTE 15**

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	21
CONTRACT NO. 78119				
ILLINOIS FED. AID PROJECT				

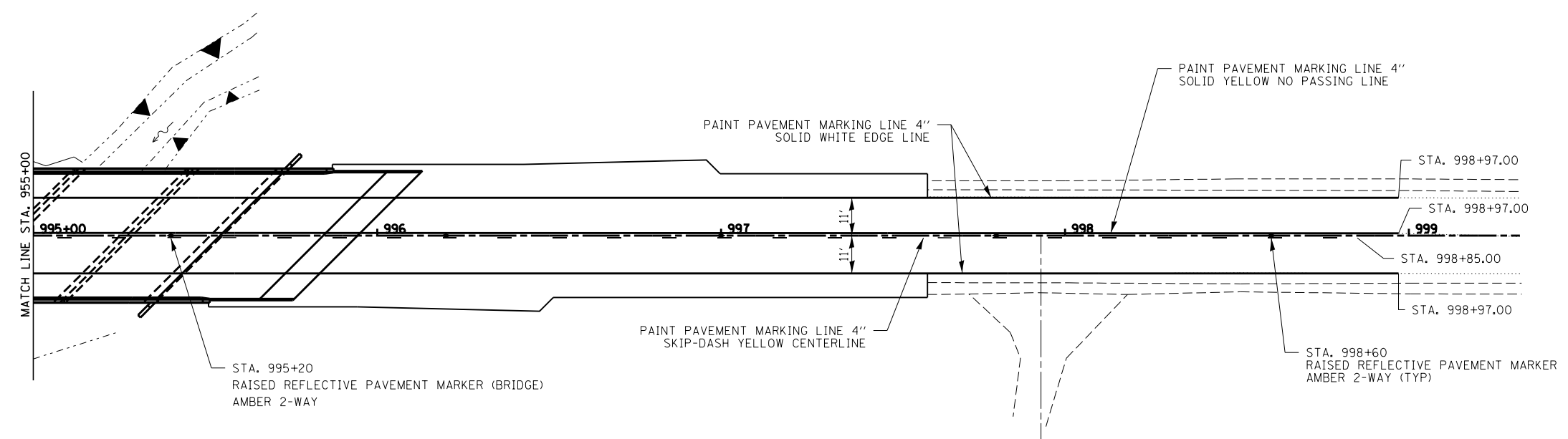
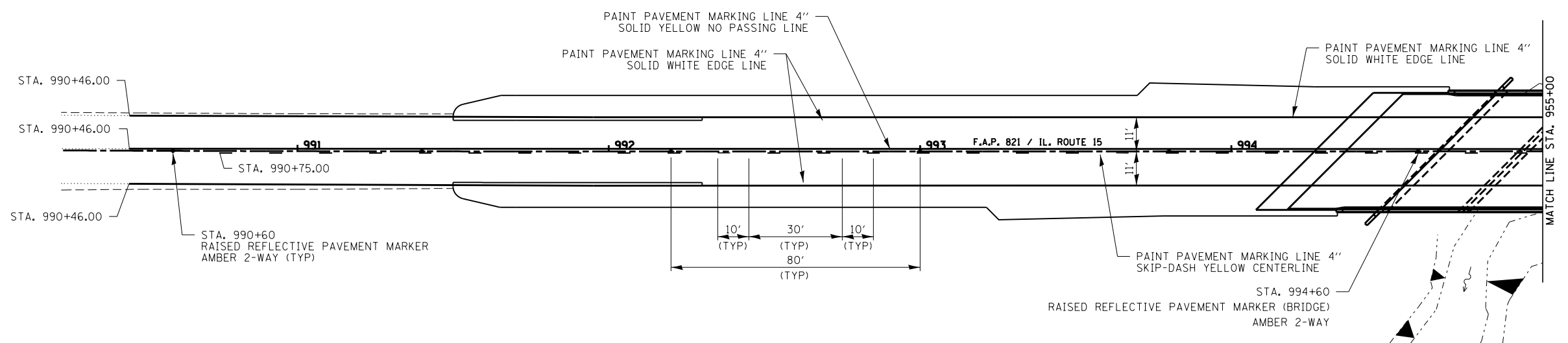
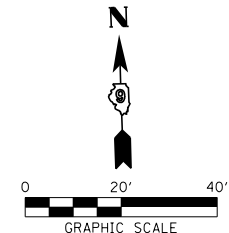


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PLOT DATE = 9/21/2016	DATE = 09/21/16	CHECKED - M.D.C.	REVISED -
		DATE = 09/21/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GUARDRAIL LAYOUT ILLINOIS ROUTE 15			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	22
CONTRACT NO. 78119				
ILLINOIS FED. AID PROJECT				



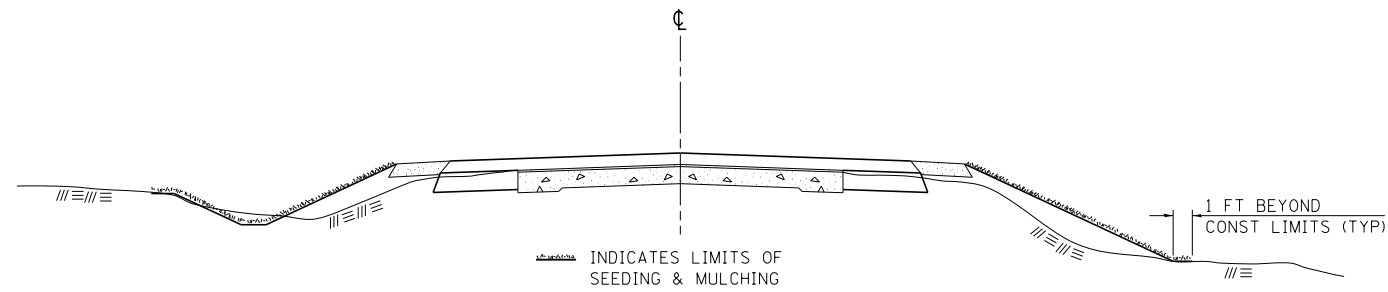
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PLOT DATE = 9/21/2016	DATE - 09/21/16	CHECKED - L.A.P.	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLAN ILLINOIS ROUTE 15			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	23
CONTRACT NO. 78119				
ILLINOIS FED. AID PROJECT				

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

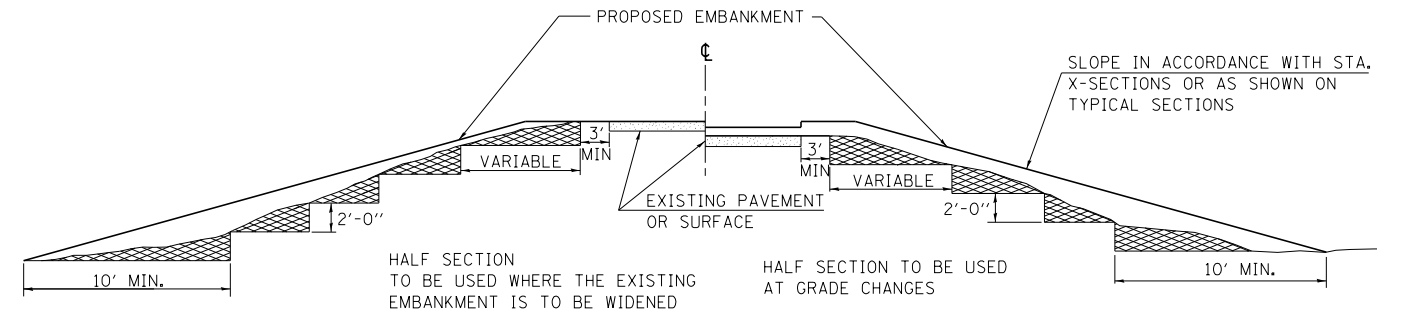
THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08

STD. 9-12

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL

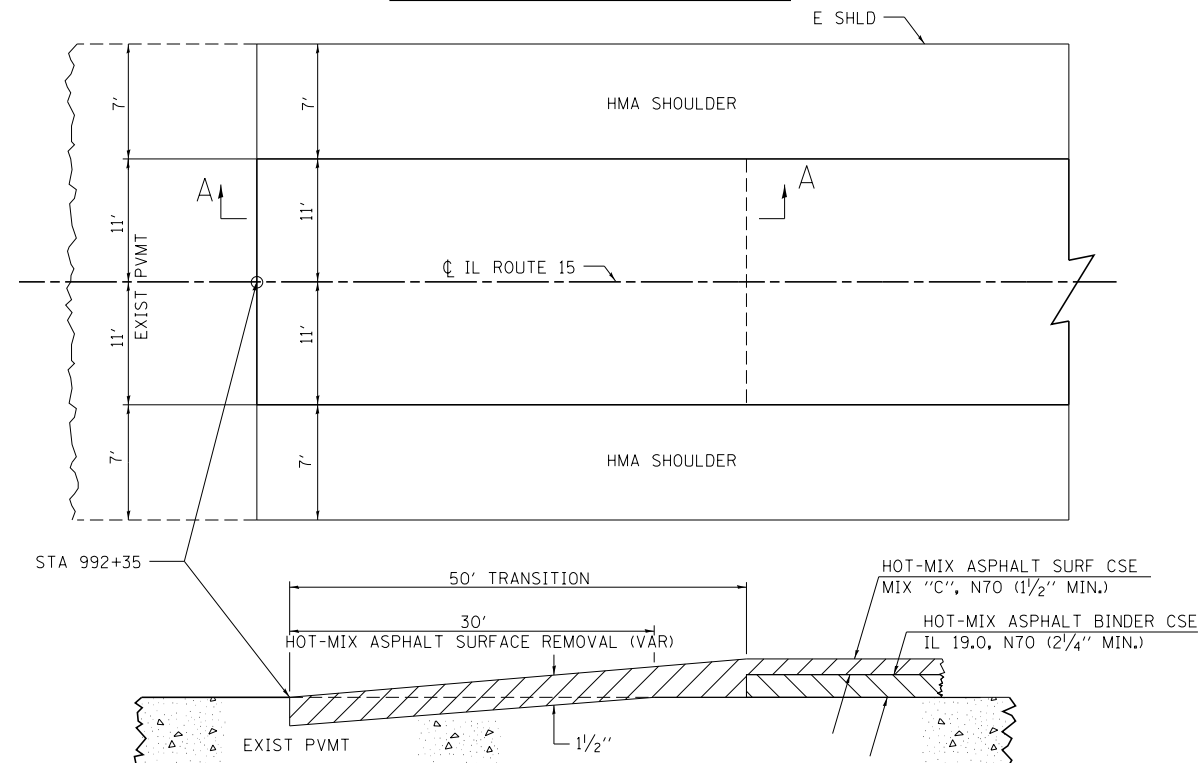


MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
RESIZED	5-7-08

STD. 9-16

BUTT JOINT - WEST

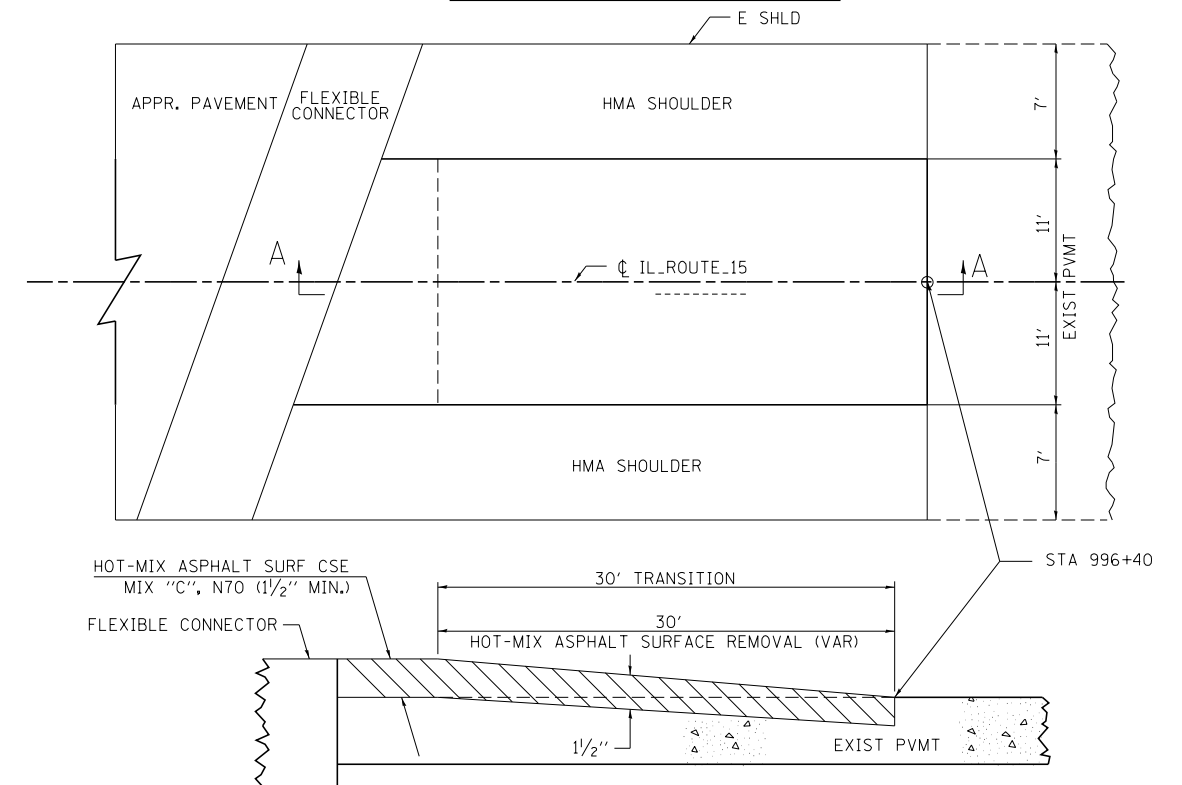


SECTION A-A

REVISIONS	
DRAWN	10-17-90
REVISED	01-11-07
REVISED	3-25-08
REVISED	

STD. 9-86

BUTT JOINT - EAST



SECTION A-A

REVISIONS	
DRAWN	10-17-90
REVISED	01-11-07
REVISED	3-25-08
REVISED	

STD. 9-86

FILE NAME = 78119-sht-details3.dgn	USER NAME = #USER*	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -
3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = *SCALE*	CHECKED - L.A.P.	REVISED -
	PLOT DATE = 9/21/2016	DATE - 09/21/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STANDARD DETAILS DISTRICT 9
ILLINOIS ROUTE 15**

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

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JACKSON	57	24
CONTRACT NO. 78119				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

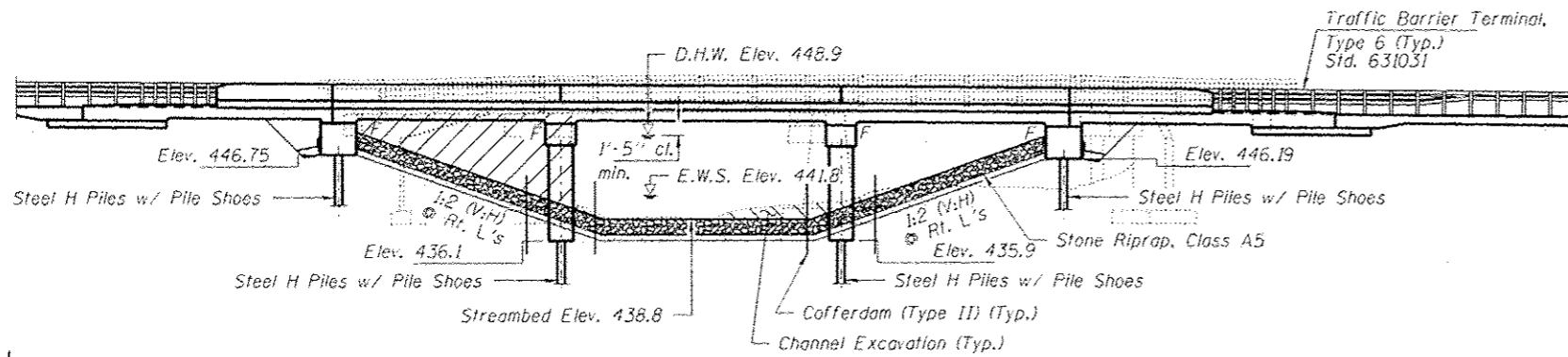
BENCHMARK: "□" cut top of structure seat 22" Rt., Sta. 995+03, Elev. 449.17.

EXISTING STRUCTURE: SN 041-0021 was originally constructed in 1921 as a 2-span RC through girder bridge on closed abutment and solid wall pier. In 1970 the bridge was reconstructed with a new 2 simple spans deck beam superstructure on the widened existing substructure. In 2008 5 of the existing deck beams were replaced. The bridge is 67'-1" bk.-bk. and 33'-0" o.-o. Structure to be removed and replaced using stage construction to maintain one lane of traffic at all times. Removal of existing footings as needed for construction shall be included in the cost of Removal of Existing Structures.

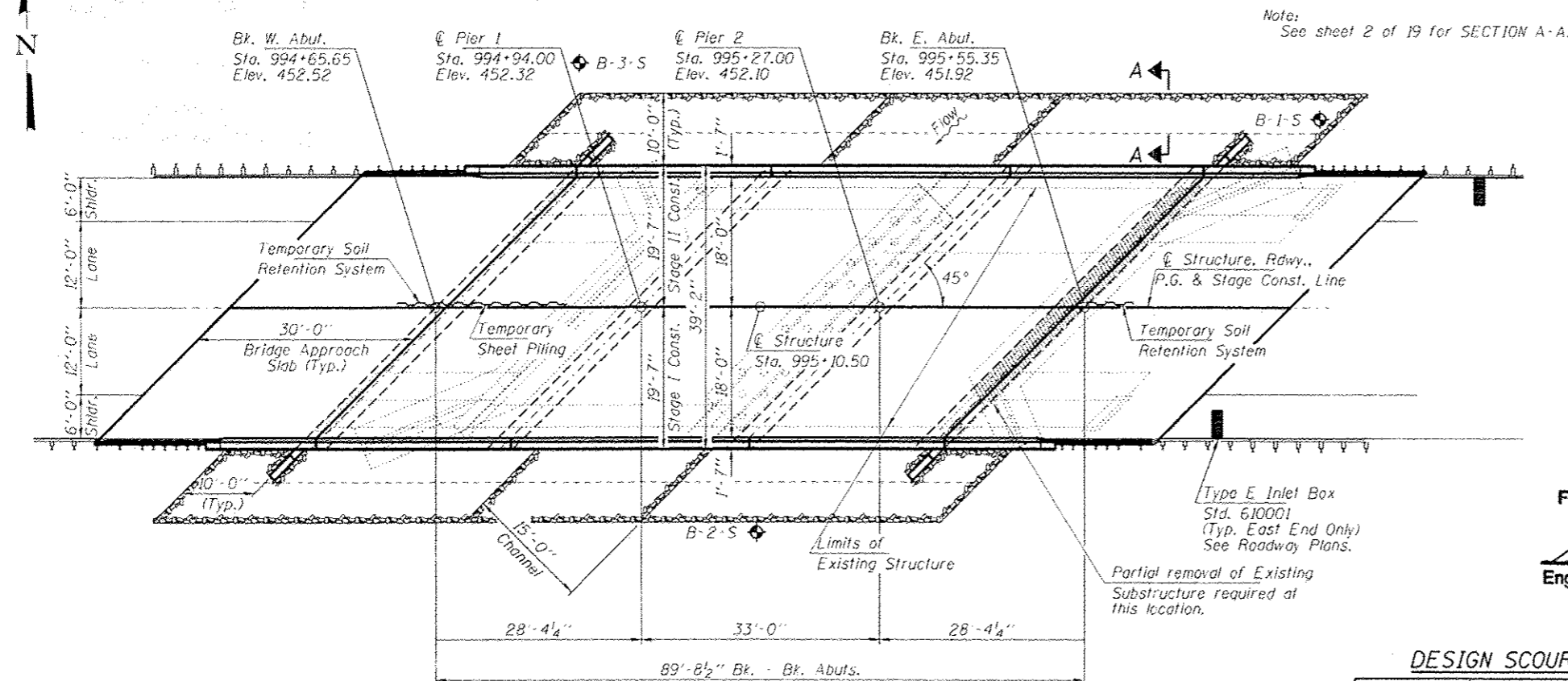
Salvage: No Salvage

INDEX OF STRUCTURE SHEETS

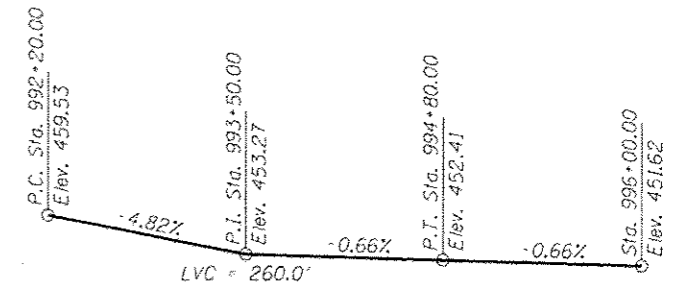
1. General Plan & Elevation
2. General Details
3. Stage Construction Details
4. Temporary Concrete Barrier for Stage Construction
5. Top of Slab Elevations
6. Top of Approach Slab Elevations
7. Superstructure
- 8-9. Superstructure Details
- 10-11. Approach Slab Details
12. West Abutment
13. East Abutment
14. Piers
15. Bar Splicer Assembly and Mechanical Splicer Details
16. HP Pile Details
- 17-19. Borings



ELEVATION



PLAN



PROFILE GRADE
(along & roadway)

STATION 995+10.50
BUILT 201. BY
STATE OF ILLINOIS
F.A.P. RT. 821 SEC. 12B-1
LOADING HL-93
STR. NO. 041-0109

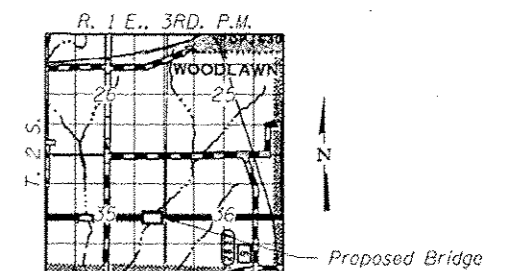
NAME PLATE
See Std. 515001

APPROVED
For Structural Adequacy Only

Sh. Carl Ruyter
Engineer of Bridges & Structures

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)					Item 113
	W. Abut.	Pier 1	Pier 2	E. Abut.		
0100	443.6	430.2	429.6	443.0		5
0500	442.3	430.2	429.6	441.8		
Design	446.8	430.2	429.6	446.2		
Check	446.8	430.2	429.6	446.2		
	446.8	430.2	429.6	446.2		



LOCATION SKETCH

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims.

LOADING HL-93

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

DESIGN STRESSES

f_c = 4,000 psi (Superstructure)
f_c = 3,500 psi (Substructure)
f_y = 60,000 psi (Reinf.)

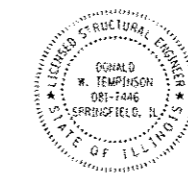
SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S₁) = 0.294g
Design Spectral Acceleration at 0.2 sec. (S_{0.2}) = 0.693g
Soil Site Class = D

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E. Exist.	Prop.	Exist.	Prop.	
Design	50	2060	300	320	448.87	1.99	0.87	450.86	449.74
Base	100	2420	310	350	449.37	2.23	1.03	451.60	450.40
Overlap Exist.	100	2420	310		449.37	2.23		451.60	
Overlap Prop.	250	2955		390	450.04		1.72		451.76

Boyd A. Top 06/28/2016
ILLINOIS STRUCTURAL NO. 081-7446 Expires 11-30-2016

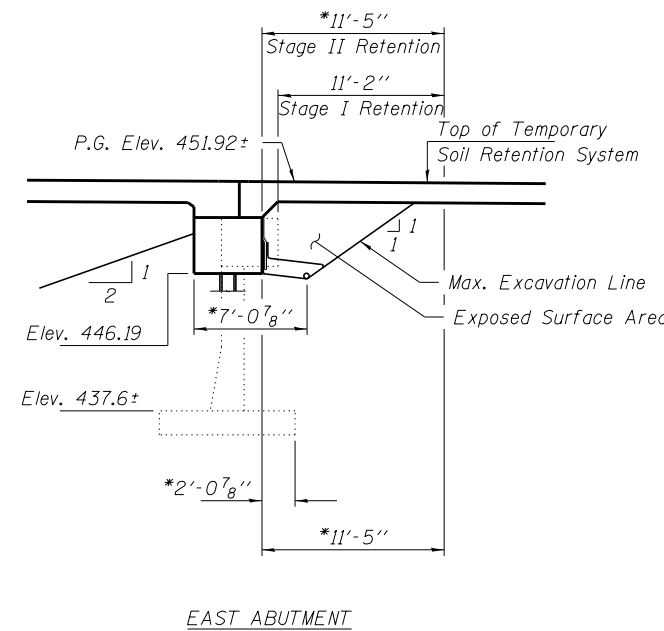
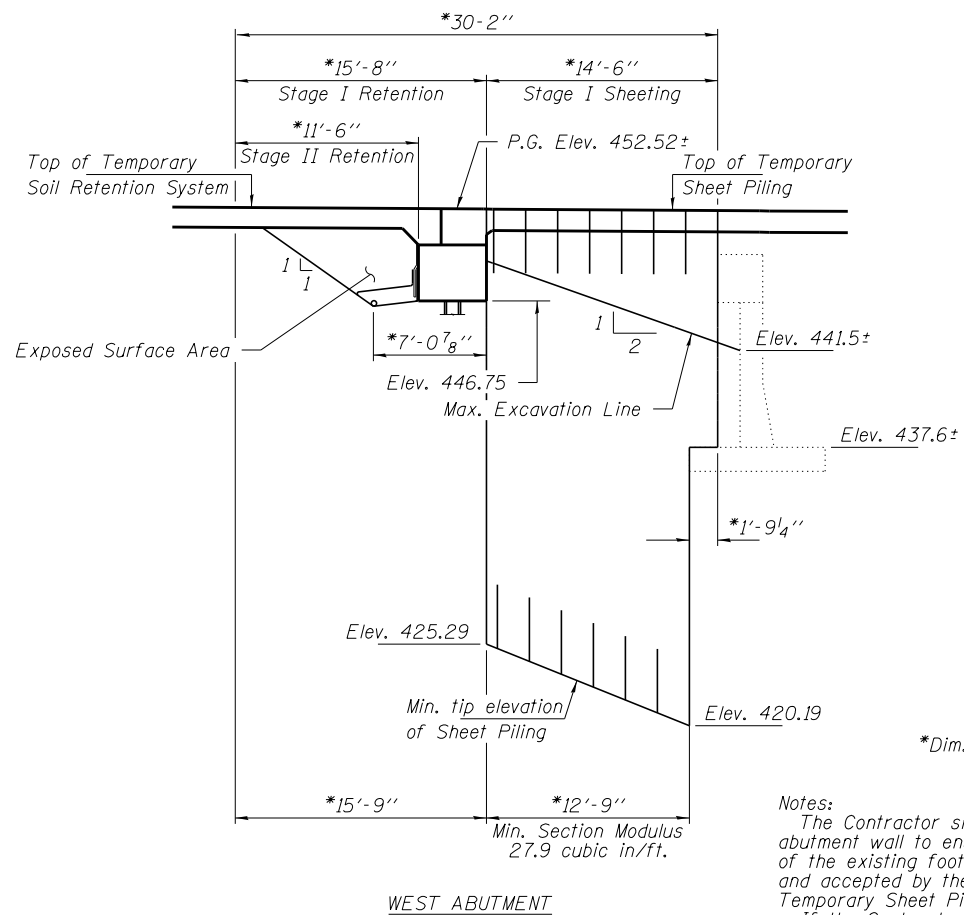


GENERAL PLAN & ELEVATION
ILLINOIS ROUTE 15
OVER POLE CAT CREEK
FAP ROUTE 821 - SECTION 12B-1
JEFFERSON COUNTY
STATION 995+10.50
STRUCTURE NO. 041-0109

FILE NAME: 78119-shc-bridge.dgn	USER NAME: SUSER8	DESIGNED: D.W.T.	REVISIONS:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 041-0109 SHEET NO. 1 OF 19 SHEETS	F.A.P.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED: A.M.C.	REVISIONS:			821	12B-1	JEFFERSON	57	25
PLLOT SCALE: 1/8"=1'-0"		DRAWN: D.A.B.	REVISIONS:			IL 15 OVER POLE CAT CREEK		CONTRACT NO. 78119		
PLLOT DATE: 9-22-2016		CHECKED: M.D.C.	REVISIONS:			ILLINOIS FED. AID PROJECT				

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 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 placement of bridge approach slab.
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
 Slip-Forming of the parapets is not allowed.

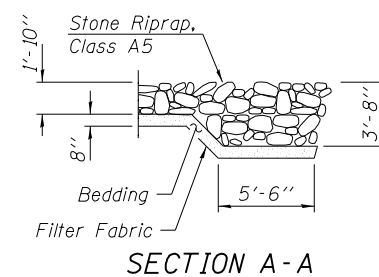
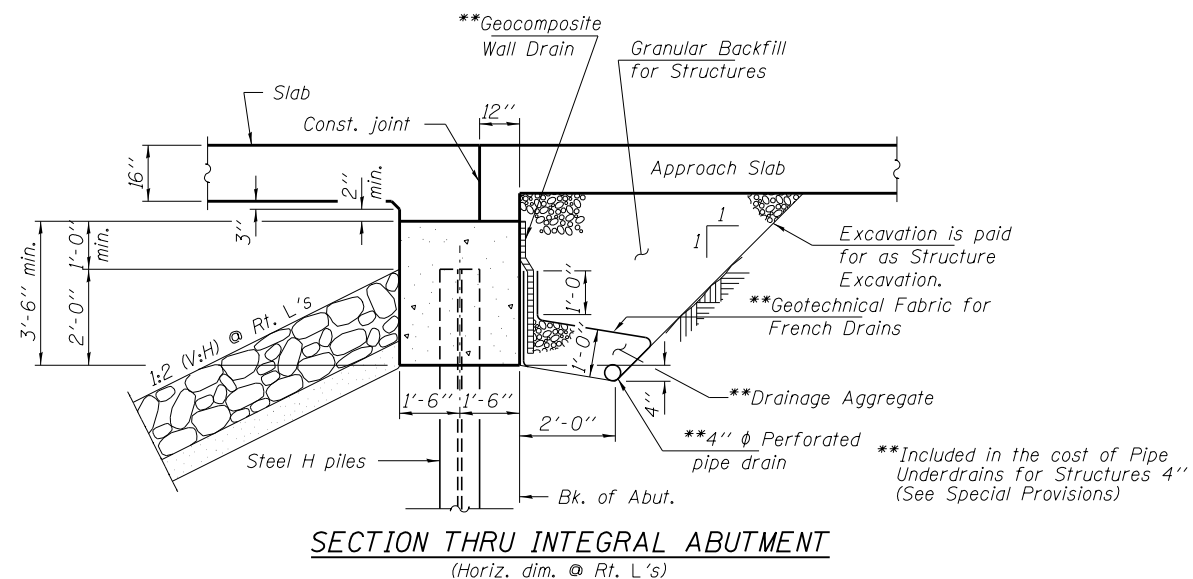


Notes:
 The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.
 If the Contractor chooses to 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.
 A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

TEMPORARY SHEET PILING & TEMPORARY SOIL RETENTION SYSTEM AT ABUTMENTS

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.			650
Filter Fabric	Sq. Yd.			650
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		130	130
Cofferdam Excavation	Cu. Yd.		270	270
Cofferdam (Type 2) (Location - 1)	Each			1
Cofferdam (Type 2) (Location - 2)	Each			1
Concrete Structures	Cu. Yd.		194.6	194.6
Concrete Superstructure	Cu. Yd.	210.9		210.9
Bridge Deck Grooving	Sq. Yd.	555		555
Protective Coat	Sq. Yd.	694		694
Concrete Superstructure (Approach Slab)	Cu. Yd.	124.1		124.1
Reinforcement Bars, Epoxy Coated	Pound	104,880	21,280	126,160
Bar Splicers	Each	455	184	639
Furnishing Steel Piles HP14x73	Foot		1,768	1,768
Driving Piles	Foot		1,768	1,768
Test Pile Steel HP14x73	Each		2	2
Pile Shoes	Each		32	32
Name Plates	Each		1	1
Temporary Sheet Piling	Sq. Ft.		405	405
Temporary Soil Retention System	Sq. Ft.		97	97
Geocomposite Wall Drain	Sq. Yd.			56
Granular Backfill for Structures	Cu. Yd.		103	103
Pipe Underdrains for Structures 4"	Foot			165



SECTION THRU INTEGRAL ABUTMENT
 (Horiz. dim. @ Rt. L's)
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).

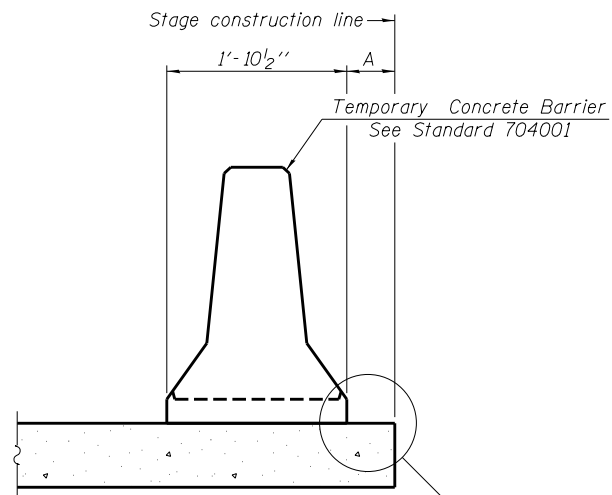
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HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - A.M.C.	REVISED -
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 9/21/2016	CHECKED - M.D.C.	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GENERAL DETAILS
 STRUCTURE NO. 041-0109**

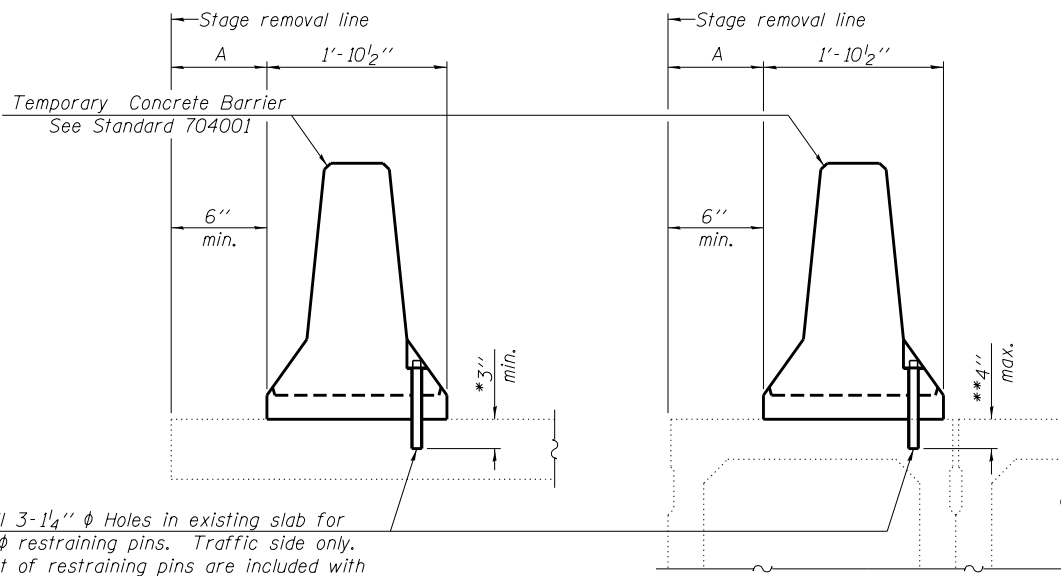
SHEET NO. 2 OF 19 SHEETS

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	26
IL 15 OVER POLE CAT CREEK		CONTRACT NO. 78119		
ILLINOIS FED. AID PROJECT				



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I or Detail II. No restraint is required when "A" is greater than 3'-1".

NEW SLAB

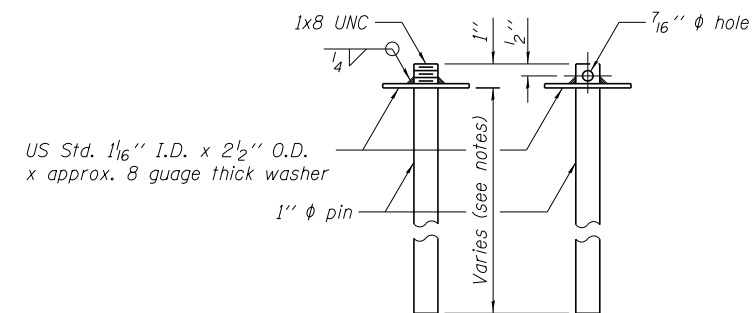


EXISTING SLAB

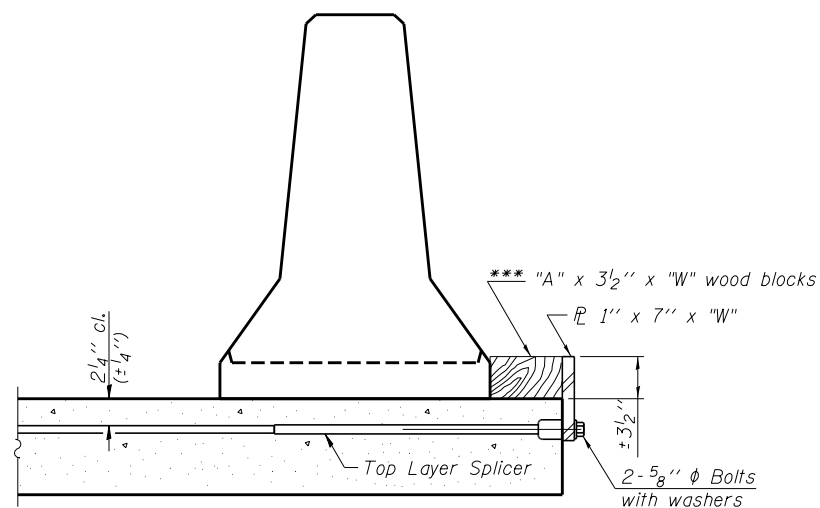
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

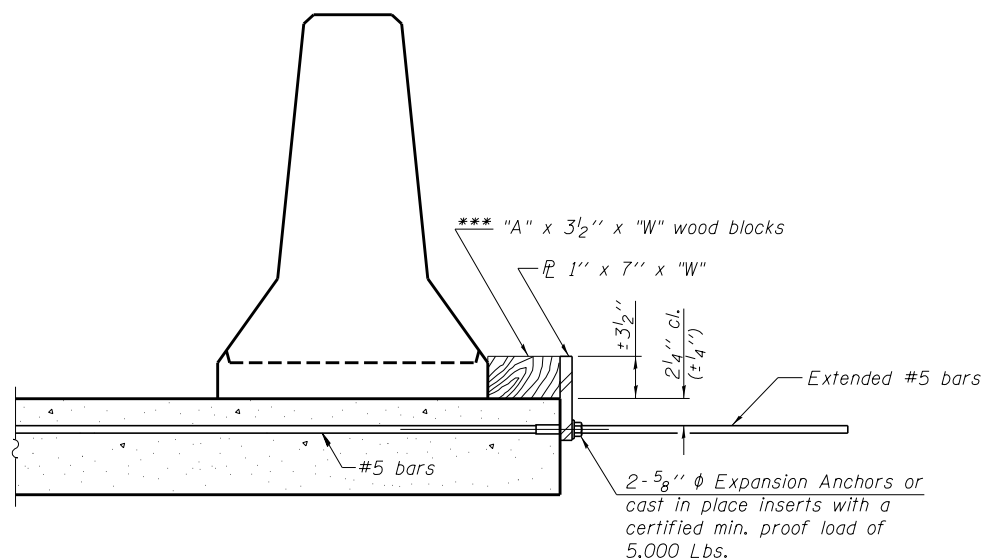
* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
 ** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



RESTRAINING PIN



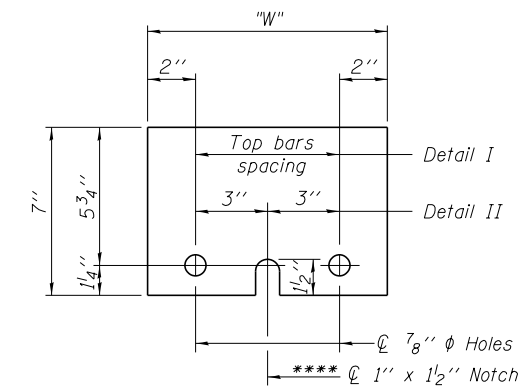
DETAIL I



DETAIL II

RETAINER ASSEMBLY

*** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.



STEEL RETAINER 1" x 7" x "W"

**** Required only with Detail II

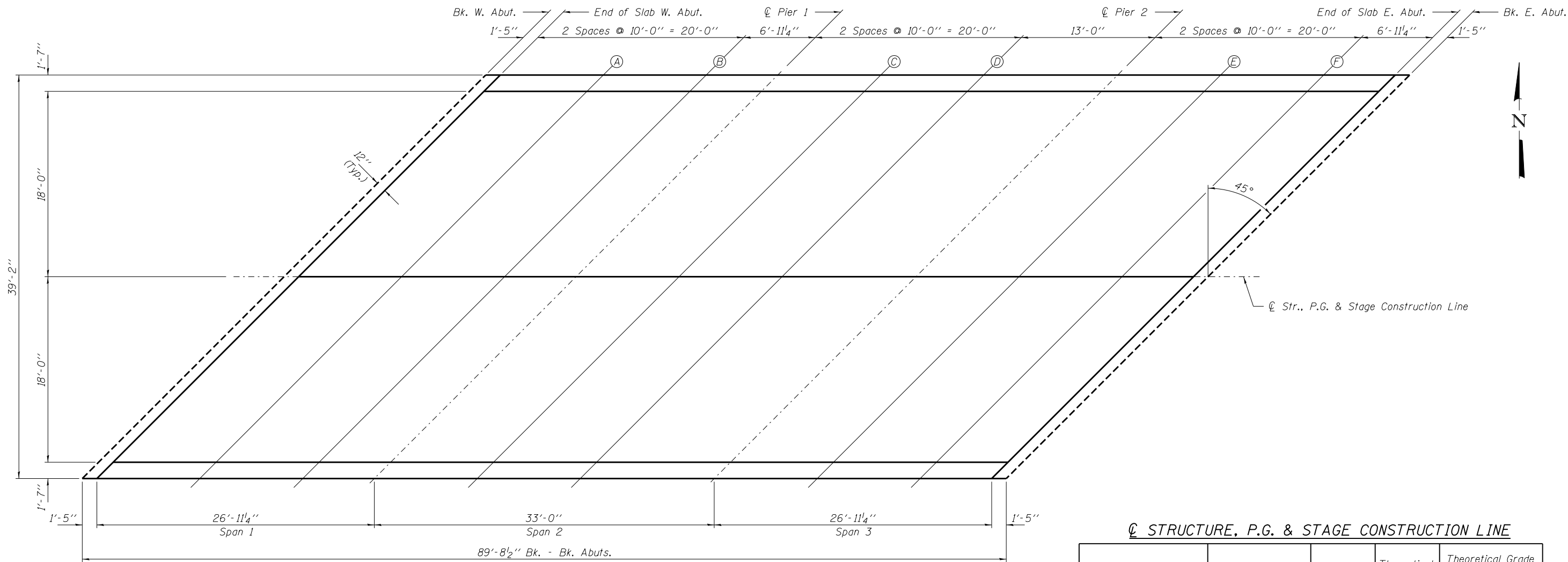
NOTES

Detail I - With Bar Splicer or Couplers:
 Connect one (1) 1" x 7" x "W" steel plate to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate center of each barrier panel.
 Detail II - With Extended Reinforcement Bars:
 Connect one (1) 1" x 7" x "W" steel plate to the concrete slab or concrete wearing surface with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate center of each barrier panel.
 Cost of retainer assembly is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

R-27

2-19-16

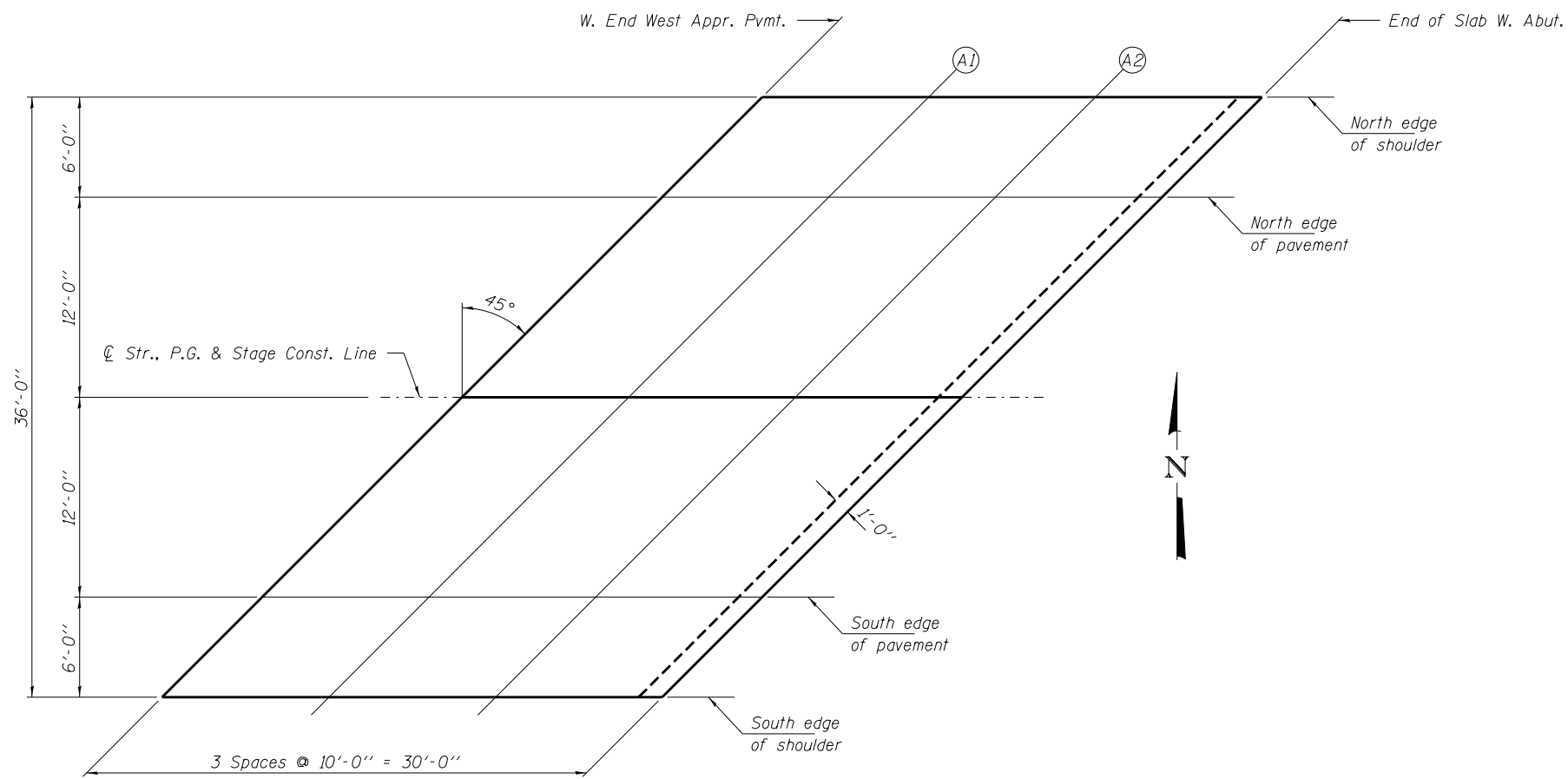
FILE NAME = 78119-sht-bridge.dgn	USER NAME = #USER#	DESIGNED - D.W.T.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 041-0109	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000959	PLOT SCALE = #SCALE#	CHECKED - A.M.C.	REVISED -			821	12B-1	JEFFERSON	57	28
PLOT DATE = 9/21/2016		DRAWN - D.A.B.	REVISED -			IL 15 OVER POLE CAT CREEK		CONTRACT NO. 78119		
		CHECKED - M.D.C.	REVISED -			SHEET NO. 4 OF 19 SHEETS		ILLINOIS FED. AID PROJECT		



PLAN

☉ STRUCTURE, P.G. & STAGE CONSTRUCTION LINE

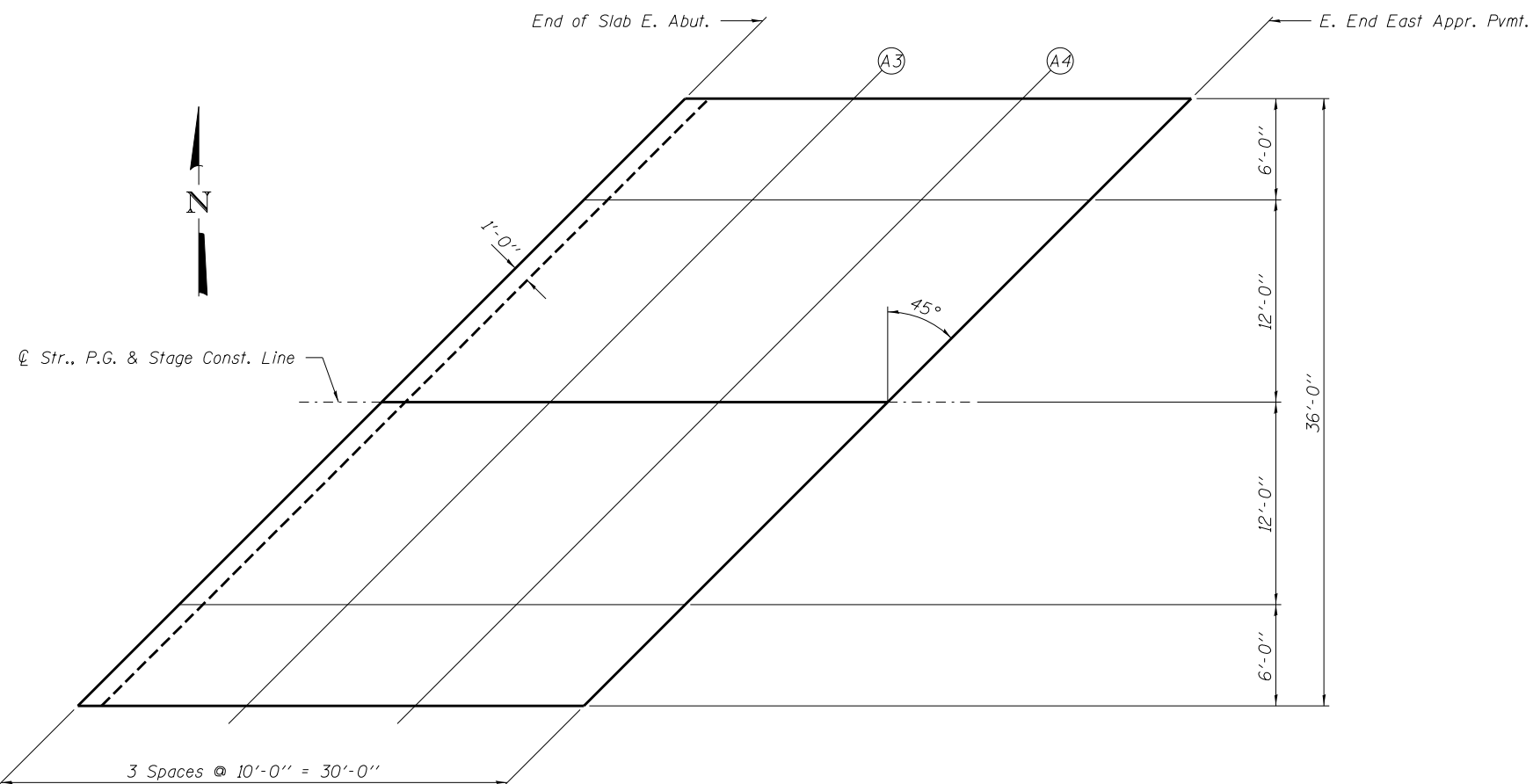
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	994+65.65	0.00	452.52	452.52
End of Slab W. Abut.	994+67.06	0.00	452.51	452.51
A	994+77.06	0.00	452.43	452.44
B	994+87.06	0.00	452.37	452.37
☉ Pier 1	994+94.00	0.00	452.32	452.32
C	995+04.00	0.00	452.25	452.26
D	995+14.00	0.00	452.19	452.19
☉ Pier 2	995+27.00	0.00	452.10	452.10
E	995+37.00	0.00	452.04	452.04
F	995+47.00	0.00	451.97	451.98
End of Slab E. Abut.	995+53.94	0.00	451.92	451.92
Bk. E. Abut.	995+55.35	0.00	451.91	451.91



WEST APPROACH SLAB - PLAN

STRUCTURE, P.G. & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Slab	994+37.06	0.00	452.84
A1	994+47.06	0.00	452.72
A2	994+57.06	0.00	452.61
End of Slab W. Abut.	994+67.06	0.00	452.51



EAST APPROACH SLAB - PLAN

STRUCTURE, P.G. & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
End of Slab E. Abut.	995+53.94	0.00	451.92
A3	995+63.94	0.00	451.86
A4	995+73.94	0.00	451.79
E. End East Appr. Pvmt.	995+83.94	0.00	451.73

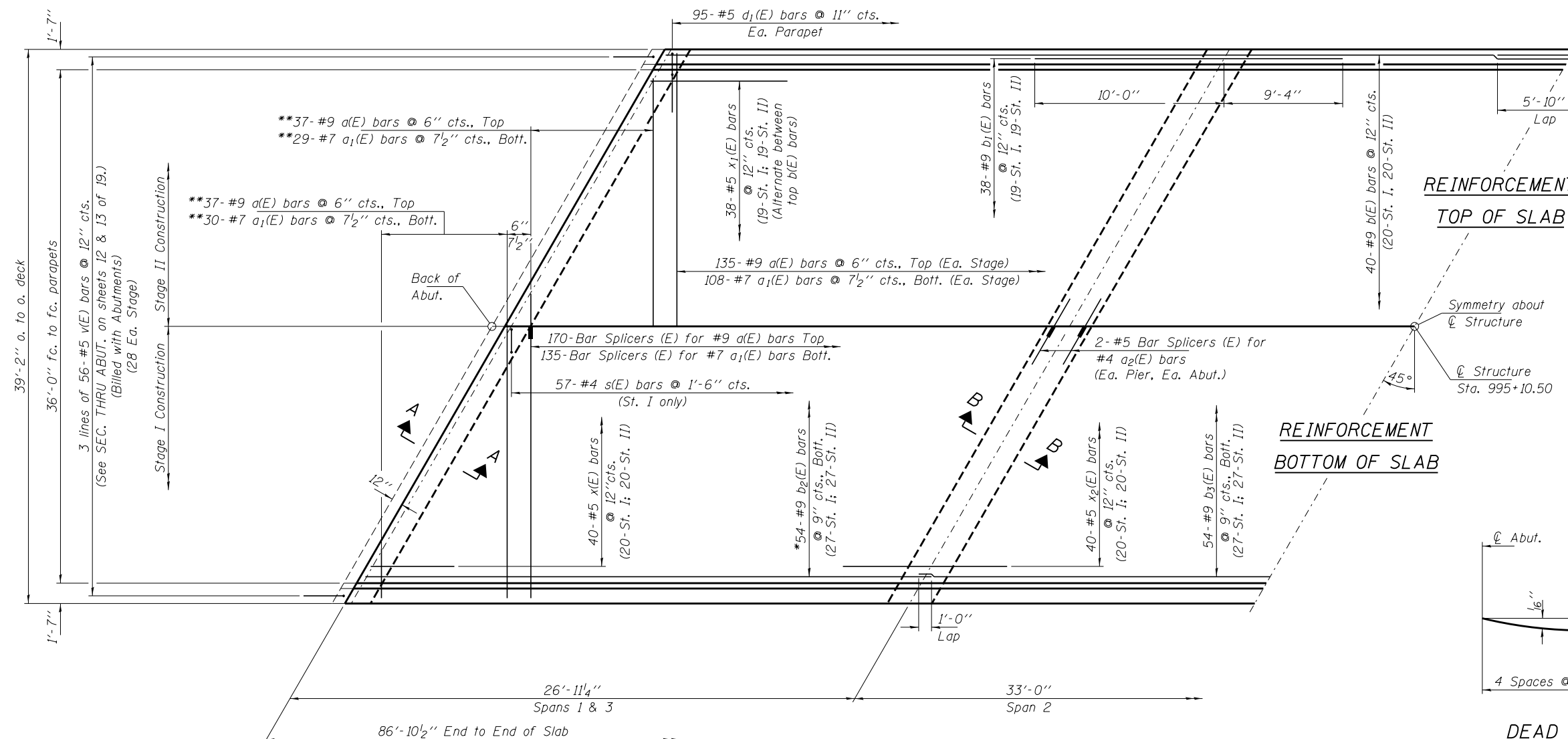
FILE NAME = 78119-sht-bridge.dgn	USER NAME = #USER#	DESIGNED - D.W.T.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	CHECKED - A.M.C.	REVISED -
PLOT DATE = 9/21/2016		DRAWN - D.A.B.	REVISED -
		CHECKED - M.D.C.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS
STRUCTURE NO. 041-0109

SHEET NO. 6 OF 19 SHEETS

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	30
IL 15 OVER POLE CAT CREEK			CONTRACT NO. 78119	
ILLINOIS FED. AID PROJECT				

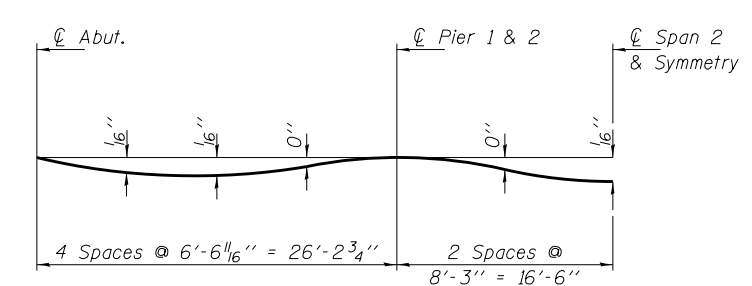


**REINFORCEMENT
TOP OF SLAB**

**REINFORCEMENT
BOTTOM OF SLAB**

MIN. BAR LAP
#9 bars = 5'-10"

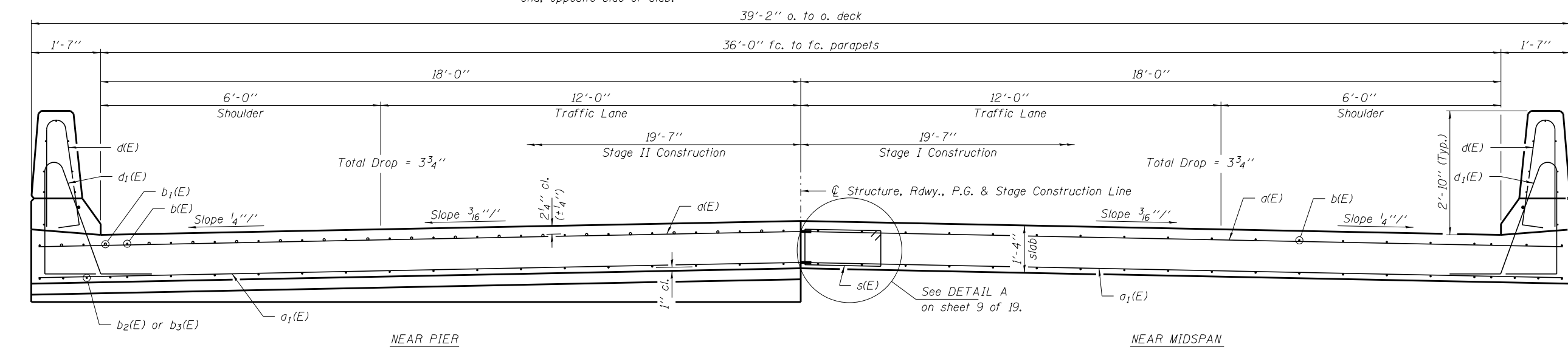
Notes:
See sheets 8 & 9 of 19 for Superstructure Details and Bill of Material.
See sheet 8 of 19 for parapet reinforcement.
See sheet 9 of 19 for SECTION A-A, SECTION B-B and DETAIL A.
See sheet 15 of 19 for Bar Splicer Details.



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

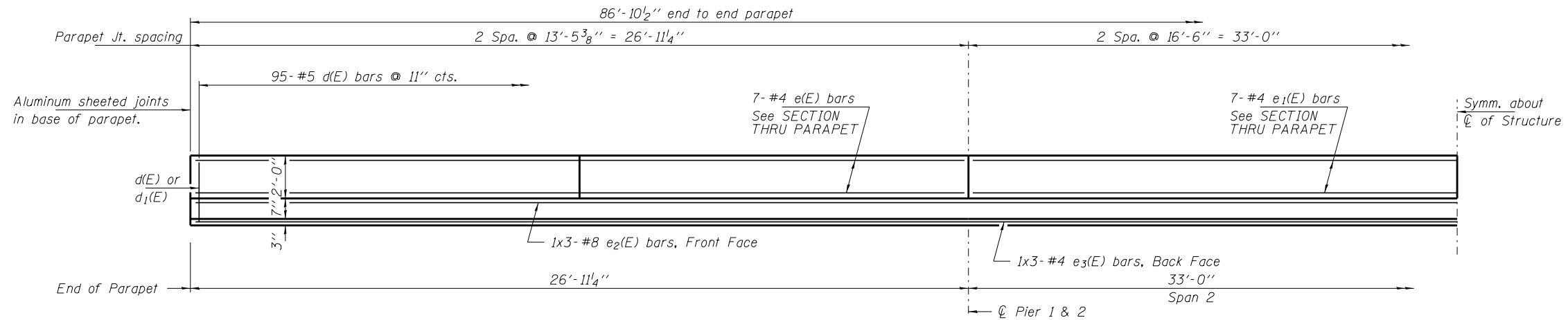
PLAN

*Tilt #9 b₂(E) bars as required to maintain clearance.
**Order a(E) & a₁(E) bars full length. Cut to fit and use the remainder in opposite end, opposite side of slab.



CROSS SECTION
(Looking East)

FILE NAME = 78119-sht-bridge.dgn	USER NAME = #USER#	DESIGNED - D.W.T.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO. 041-0109	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	CHECKED - A.M.C.	REVISED -			821	12B-1	JEFFERSON	57	31	
PLOT DATE = 9/21/2016		DRAWN - D.A.B.	REVISED -			ILLINOIS FED. AID PROJECT					
		CHECKED - M.D.C.	REVISED -			CONTRACT NO. 78119					

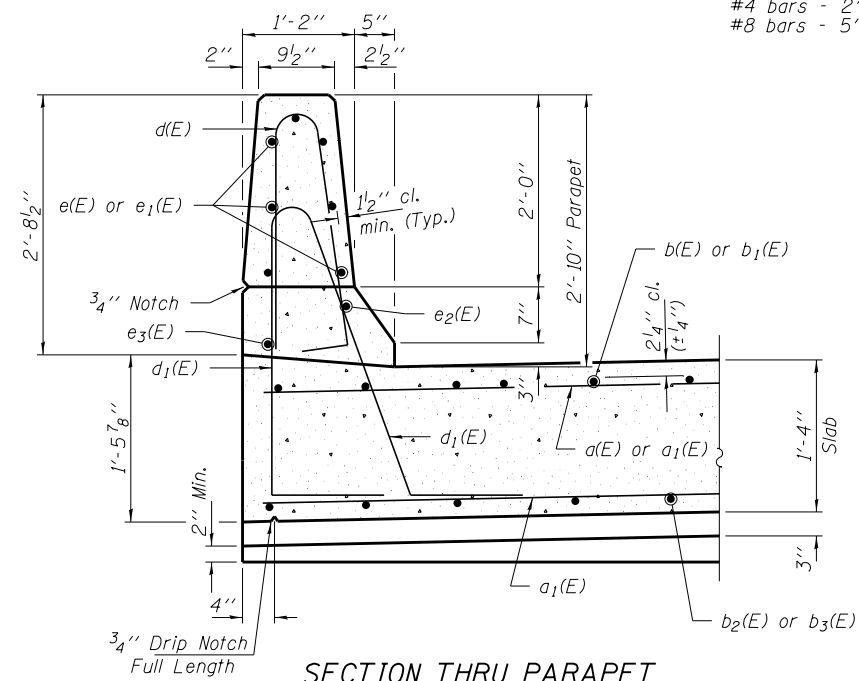


INSIDE ELEVATION OF PARAPET

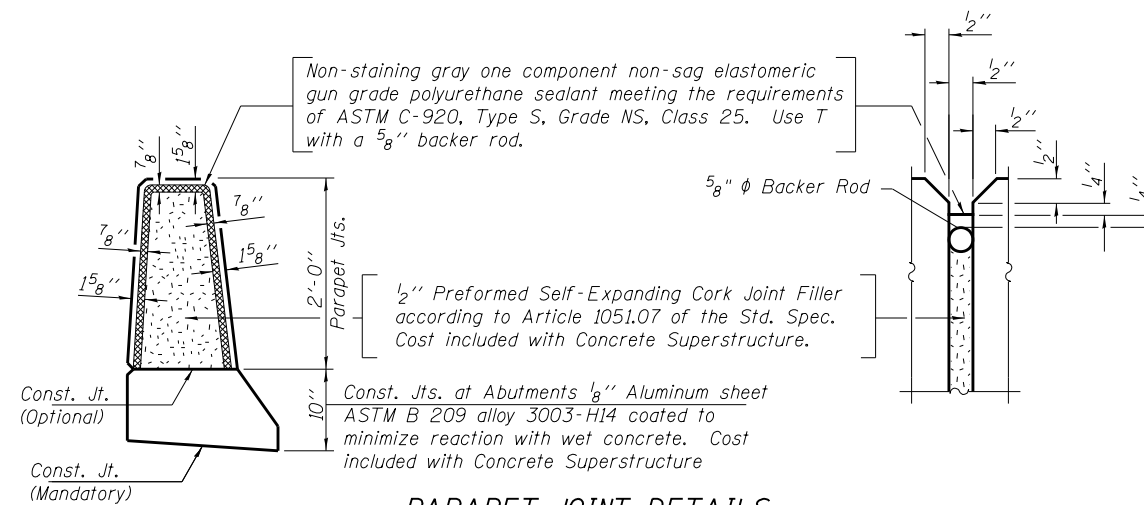
Note:
Bars indicated thus 1x3-#4 etc. indicates
1 lines of bars with 3 lengths per line.

MIN. BAR LAPS

(Parapet)
#4 bars - 2'-8"
#8 bars - 5'-11"



SECTION THRU PARAPET



PARAPET JOINT DETAILS

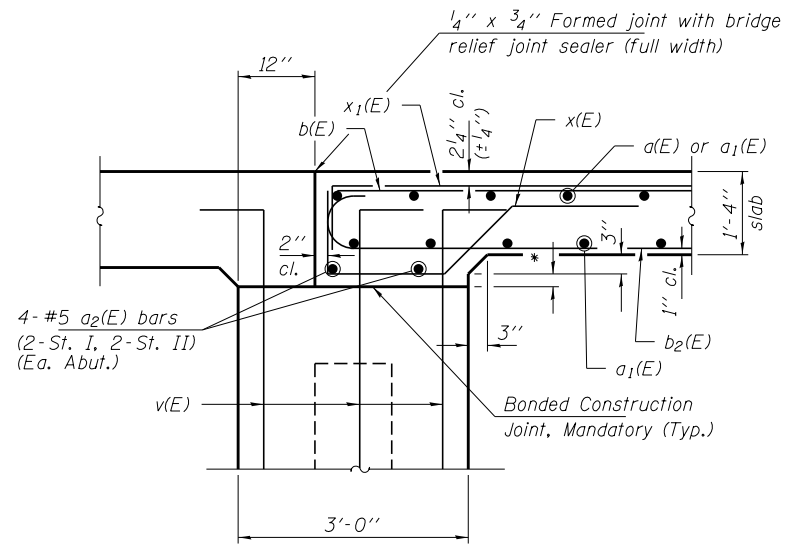
FILE NAME = 78119-sht-bridge.dgn	USER NAME = #USER#	DESIGNED - D.W.T.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	CHECKED - A.M.C.	REVISED -
	PLOT DATE = 9/21/2016	DRAWN - D.A.B.	REVISED -
		CHECKED - M.D.C.	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 041-0109**

SHEET NO. 8 OF 19 SHEETS

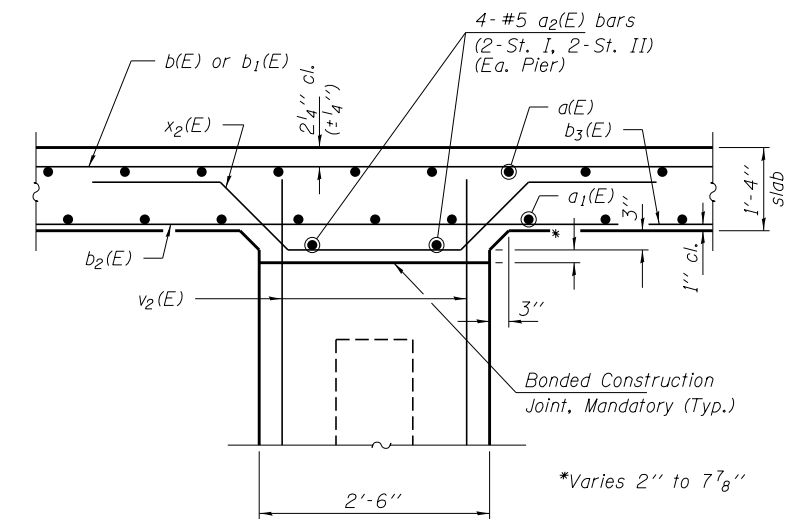
F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	32
IL 15 OVER POLE CAT CREEK			CONTRACT NO. 78119	
ILLINOIS FED. AID PROJECT				



SECTION A-A

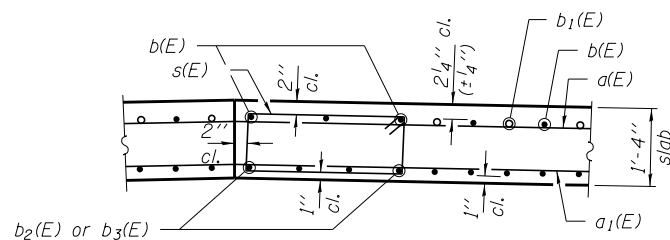
*Varies 2" to 8 1/4" (W. Abut.)
*Varies 2" to 8" (E. Abut.)

Note: Pour bridge slab before pouring approach slab.

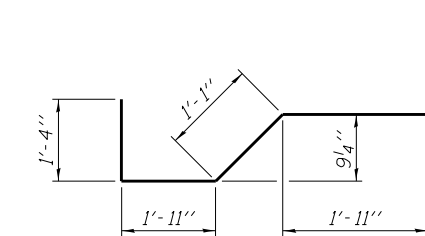


SECTION B-B

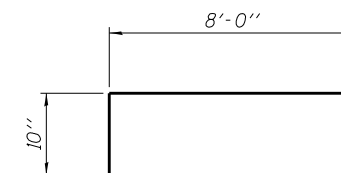
*Varies 2" to 7 7/8"



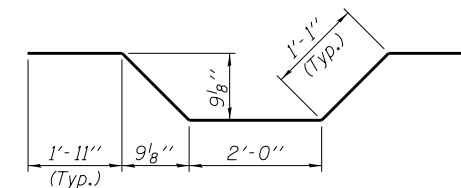
DETAIL A



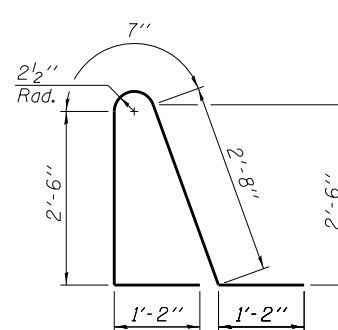
BAR x(E)



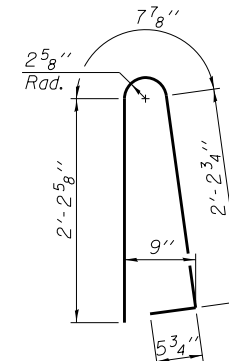
BAR x1(E)



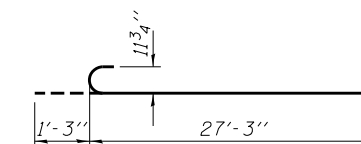
BAR x2(E)



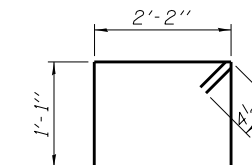
BAR d1(E)



BAR d(E)



BAR b2(E)



BAR s(E)

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	307	#9	19'-3"	—
a1(E)	312	#7	19'-3"	—
a2(E)	16	#5	27'-4"	—
b(E)	80	#9	46'-2"	—
b1(E)	76	#9	19'-4"	—
b2(E)	108	#9	28'-6"	C
b3(E)	54	#9	34'-0"	—
d(E)	190	#5	5'-7"	∩
d1(E)	190	#5	8'-1"	∩
e(E)	56	#4	13'-1"	—
e1(E)	28	#4	16'-2"	—
e2(E)	6	#8	32'-10"	—
e3(E)	6	#4	30'-8"	—
s(E)	57	#4	7'-3"	□
x(E)	80	#5	6'-3"	∩
x1(E)	76	#5	8'-10"	∩
x2(E)	80	#5	8'-0"	∩
Concrete Superstructure		Cu. Yd.	204.2	
Bridge Deck Grooving		Sq. Yd.	328	
Protective Coat		Sq. Yd.	420	
Reinforcement Bars, Epoxy Coated		Pound	73,400	
Bar Splicers		Each	313	

FILE NAME = 78119-sht-bridge.dgn	USER NAME = #USER#	DESIGNED - D.W.T.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	CHECKED - A.M.C.	REVISED -
PLOT DATE = 9/21/2016		DRAWN - D.A.B.	REVISED -
		CHECKED - M.D.C.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

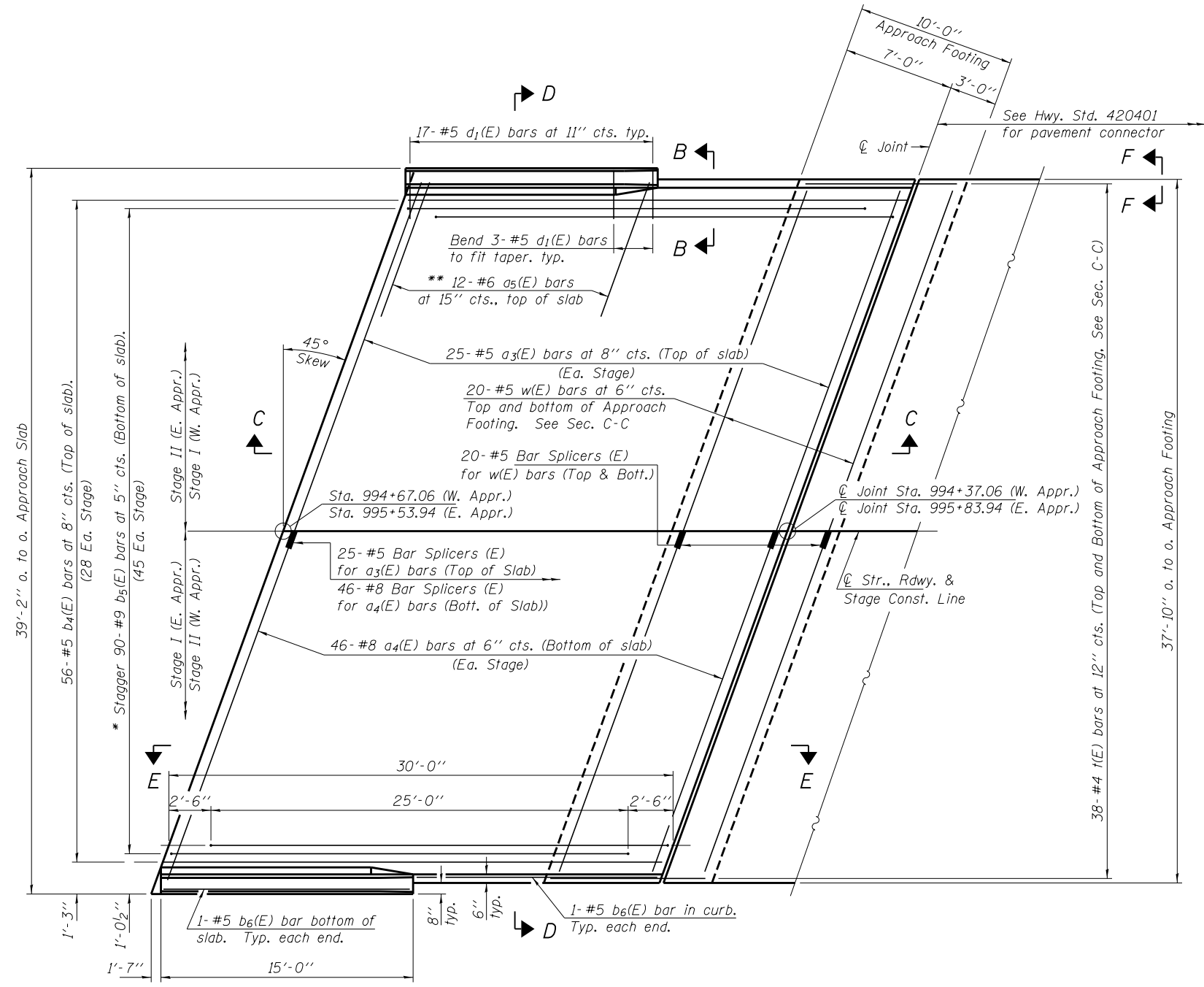
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 041-0109

SHEET NO. 9 OF 19 SHEETS

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	33
IL 15 OVER POLE CAT CREEK			CONTRACT NO. 78119	
ILLINOIS FED. AID PROJECT				

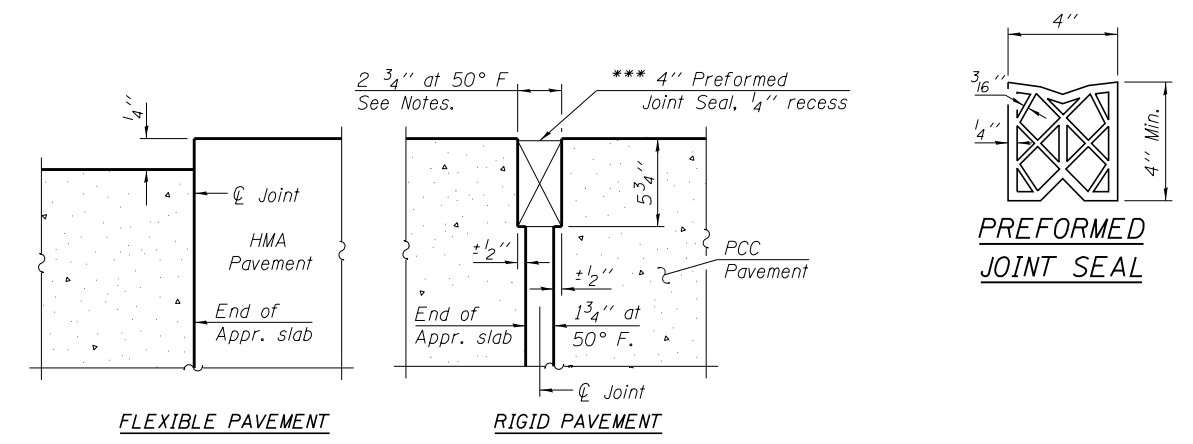
Notes:
 See sheet 11 of 19 for Sections C-C & D-D and View E-E.
 $a_3(E)$ and $a_4(E)$ bar spacings measured along \hat{C} Rdwy.
 The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be $1\frac{1}{2}$ " for installation purposes.
 Parapet concrete shall be paid for as Concrete Superstructure.

*** Cost included with Concrete Superstructure (Approach Slab).

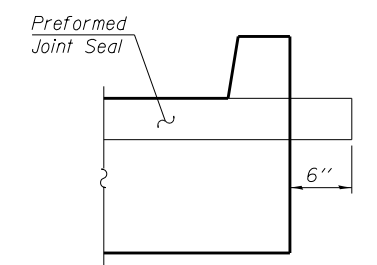
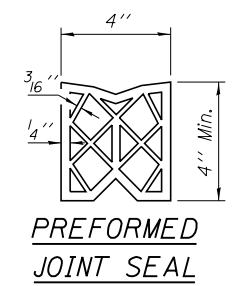


PLAN
 (East Approach shown)

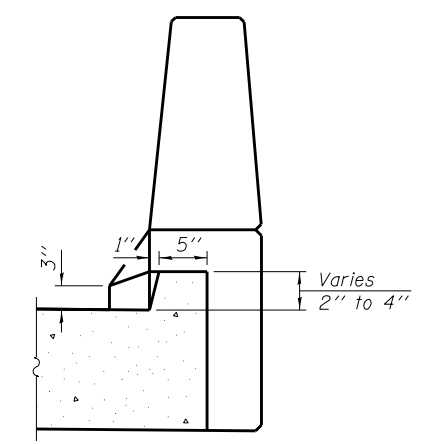
* Tilt #9 $b_5(E)$ bars as required to maintain clearance.
 ** Space between $a_3(E)$ or $a_4(E)$ bars, typ. each parapet.



DETAIL A



VIEW F-F



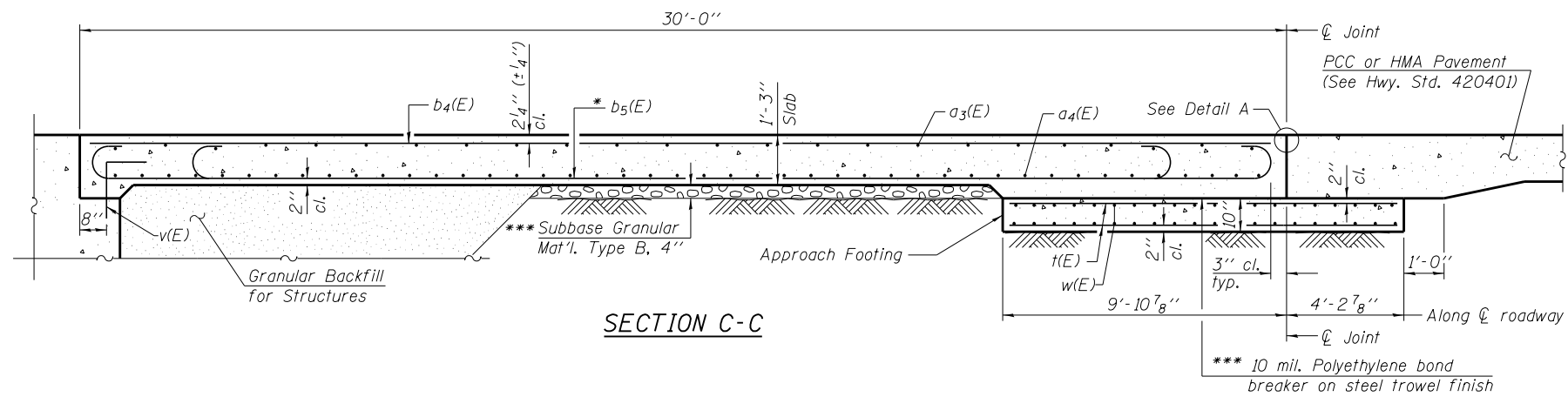
VIEW B-B

BA-L

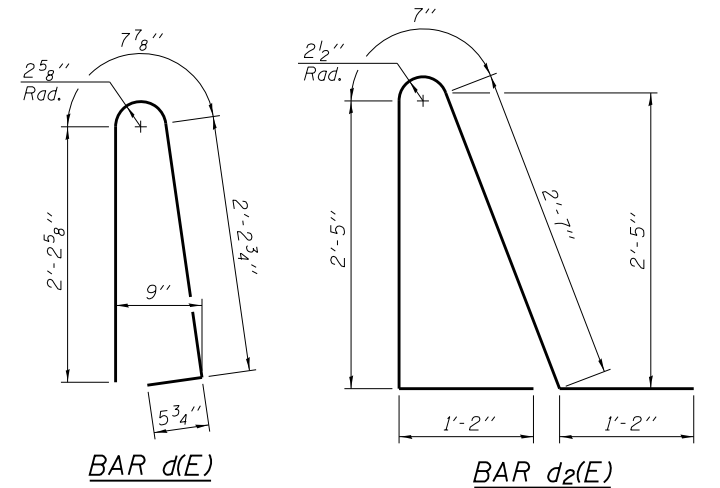
01-29-16

(Sheet 1 of 2)

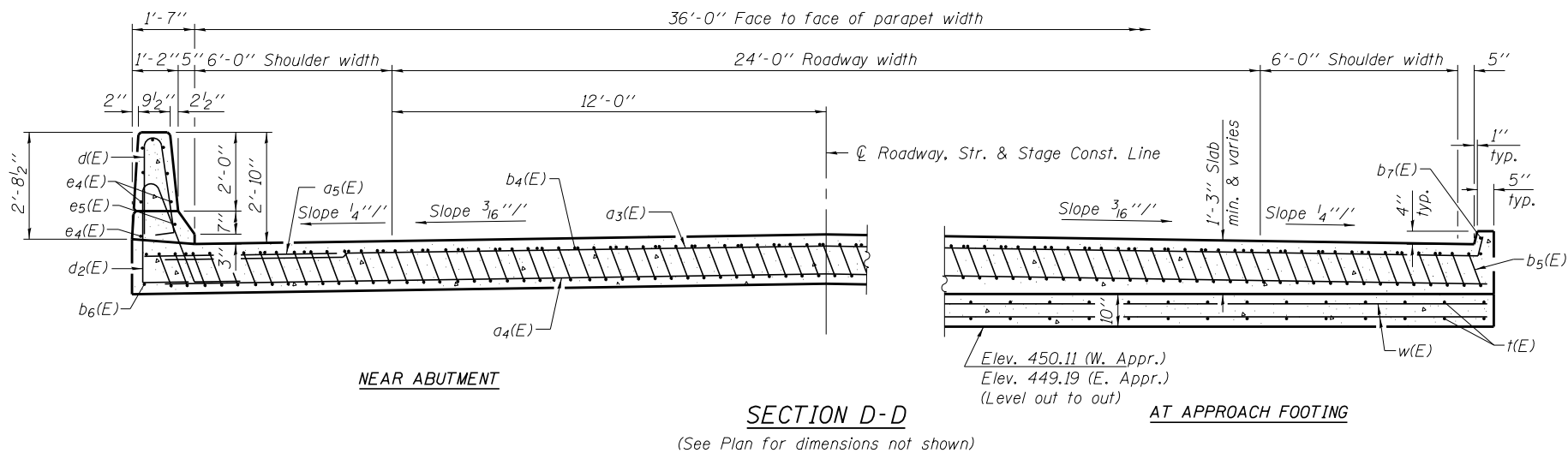
FILE NAME = 78119-sht-bridge.dgn	USER NAME = #USER#	DESIGNED - D.W.T.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 041-0109	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62763 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	CHECKED - A.M.C.	REVISED -			821	12B-1	JEFFERSON	57	34
	PLOT DATE = 9/21/2016	DRAWN - D.A.B.	REVISED -			IL 15 OVER POLE CAT CREEK		CONTRACT NO. 78119		
		CHECKED - M.D.C.	REVISED -			SHEET NO. 10 OF 19 SHEETS		ILLINOIS FED. AID PROJECT		



Notes:
 See sheet 10 of 19 for Detail A and View B-B.
 Parapet concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet 7 of 19.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 For bar splicer details, see sheet 15 of 19.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 19.
 For additional parapet details, see sheet 8 & 9 of 19.

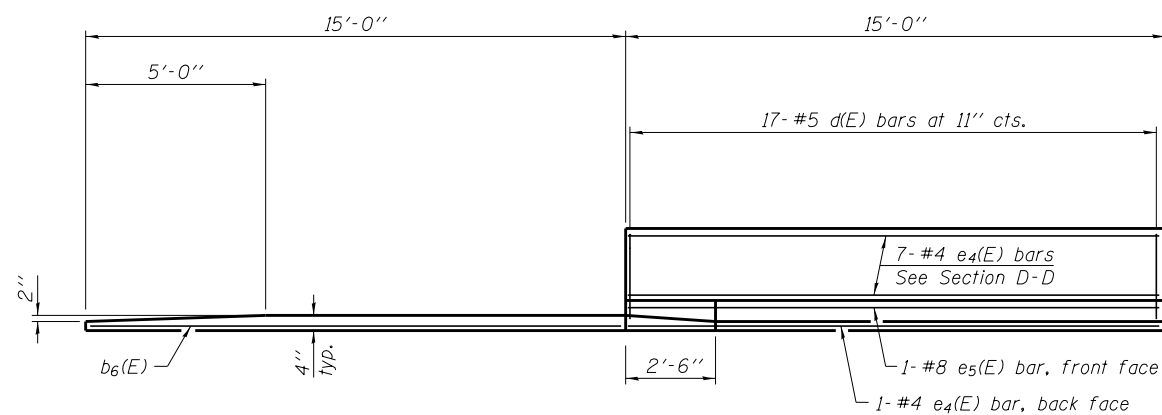


* Tilt #9 b5(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure (Approach Slab).

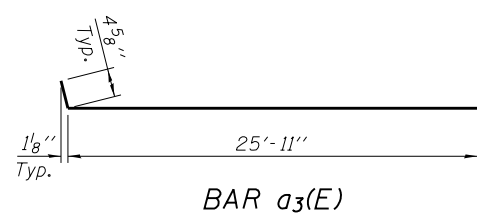


**TWO APPROACHES
 BILL OF MATERIAL**

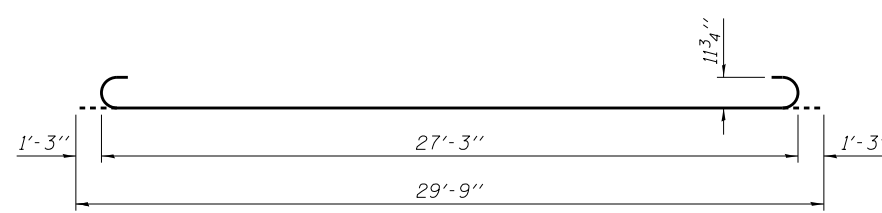
Bar	No.	Size	Length	Shape
a3(E)	100	#5	26'-4"	—
a4(E)	184	#5	26'-3"	—
a5(E)	48	#6	6'-6"	—
b4(E)	112	#5	29'-8"	—
b5(E)	180	#9	29'-9"	—
b6(E)	8	#5	14'-8"	—
d(E)	68	#5	5'-7"	⌒
d2(E)	68	#5	7'-11"	⌒
e4(E)	32	#4	14'-8"	—
e5(E)	4	#8	14'-8"	—
t(E)	76	#4	13'-8"	—
w(E)	160	#5	26'-3"	—
Concrete Structures		Cu. Yd.	31.4	
Concrete Superstructure		Cu. Yd.	6.7	
Concrete Superstructure (Approach Slab)		Cu. Yd.	124.1	
Reinforcement Bars, Epoxy Coated		Pound	36,550	
Bar Splicers		Each	222	
Protective Coat		Sq. Yd.	274	
Bridge Deck Grooving		Sq. Yd.	227	



VIEW E-E

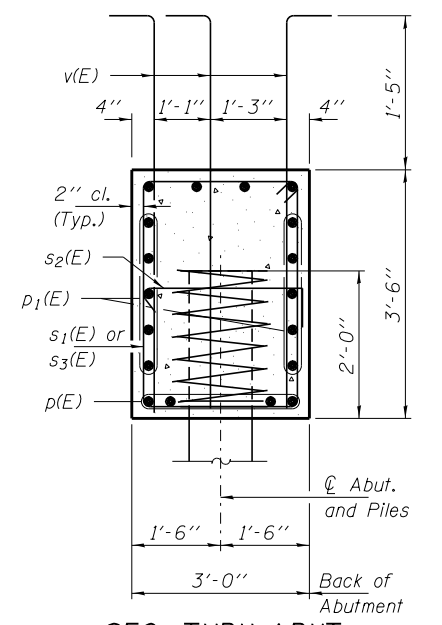
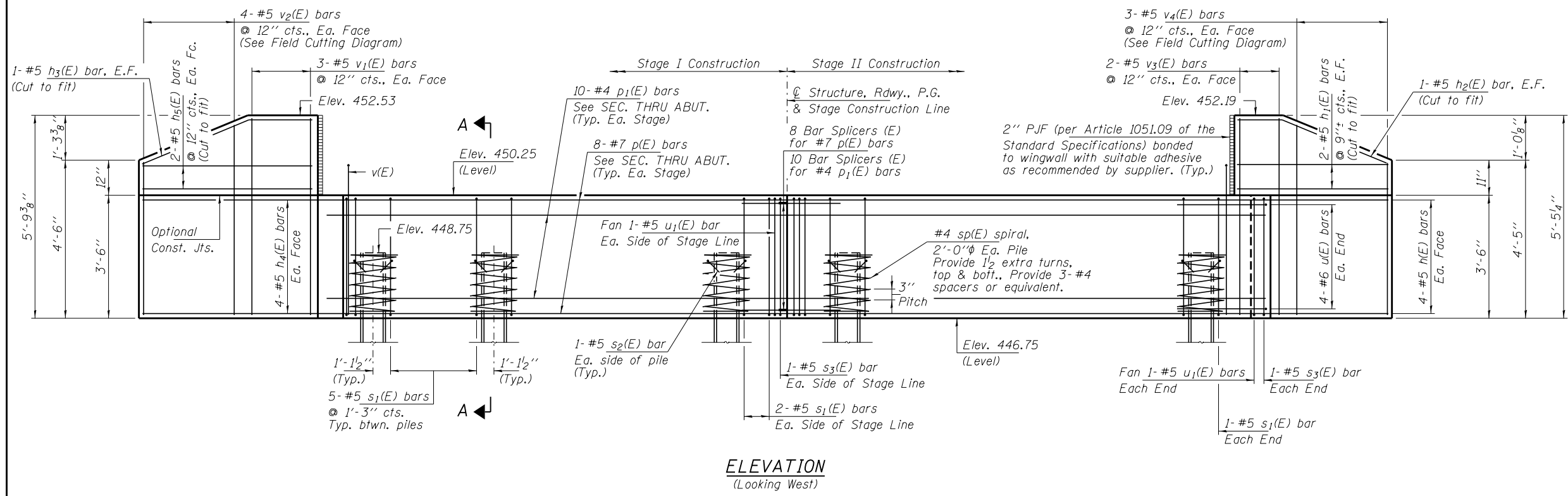


BAR a3(E)



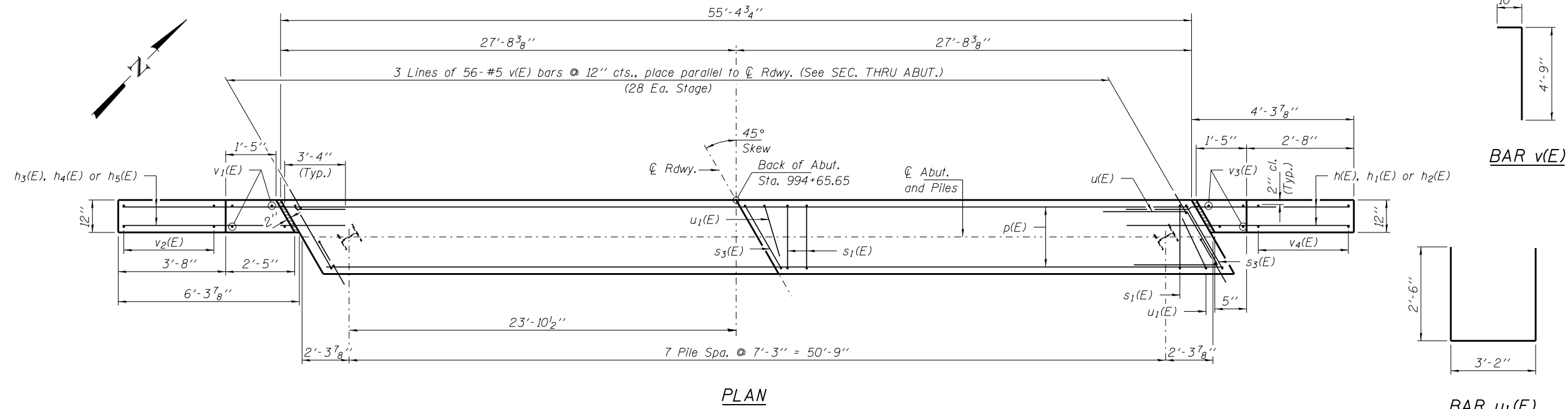
BAR b5(E)

(Sheet 2 of 2)



SEC. THRU ABUT.
Dimensions at right angles to abutment.

ELEVATION
(Looking West)



PLAN

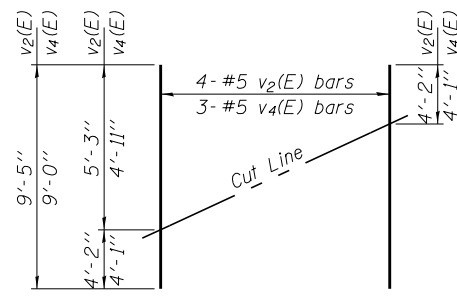
WEST ABUTMENT
BILL OF MATERIAL

BAR NO.	SIZE	LENGTH	SHAPE
h(E)	#5	7'-6"	—
h ₁ (E)	#5	3'-9"	—
h ₂ (E)	#5	3'-10"	—
h ₃ (E)	#5	5'-10"	—
h ₄ (E)	#5	9'-6"	—
h ₅ (E)	#5	5'-9"	—
p(E)	#7	27'-3"	—
p ₁ (E)	#4	27'-3"	—
s ₁ (E)	#5	12'-7"	□
s ₂ (E)	#5	3'-8"	□
s ₃ (E)	#5	14'-9"	□
*sp(E)	#4	2'-0"	WWW
u(E)	#6	11'-4"	—
u ₁ (E)	#5	8'-2"	—
v(E)	#5	5'-7"	—
v ₁ (E)	#5	5'-4"	—
v ₂ (E)	#5	9'-5"	—
v ₃ (E)	#5	5'-1"	—
v ₄ (E)	#5	9'-0"	—
Concrete Structures	Cu. Yd.	23.3	
Reinforcement Bars, Epoxy Coated	Pound	3,690	
Furnishing Steel Piles HP14x73	Foot	448	
Driving Piles	Foot	448	
Pile Shoes	Each	8	
Bar Splicers	Each	18	

*Length is height of spiral.
For details of piles see sheet 16 of 19.
For Bar Splicer details see sheet 15 of 19.

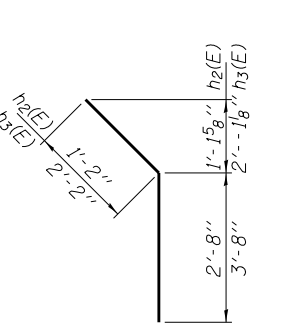
PILE DATA

Type: HP14x73 with Pile Shoes
Nominal Required Bearing: 578 Kips/Pile
Factored Resistance Available: 318 Kips/Pile
Est. Length: 56' (W. Abut.)
No. Production Piles: 8
No. Test Piles: 0

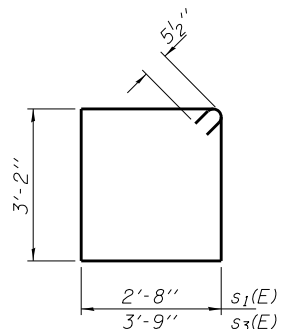


FIELD CUTTING DIAGRAM

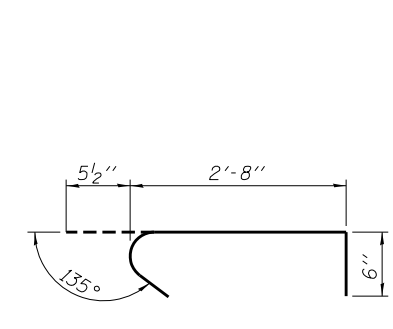
Order v₂(E) & v₄(E) full length. Cut as shown and use remainder of bars in opposite face.



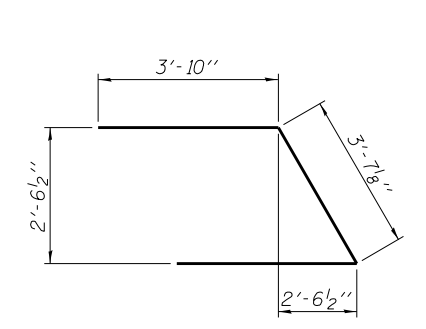
BARS h₂(E) & h₃(E)



BARS s₁(E) & s₃(E)



BAR s₂(E)



BAR u(E)

AIS-L 8-31-12

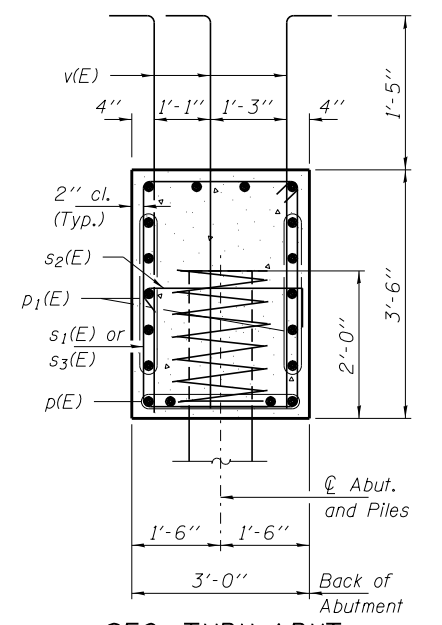
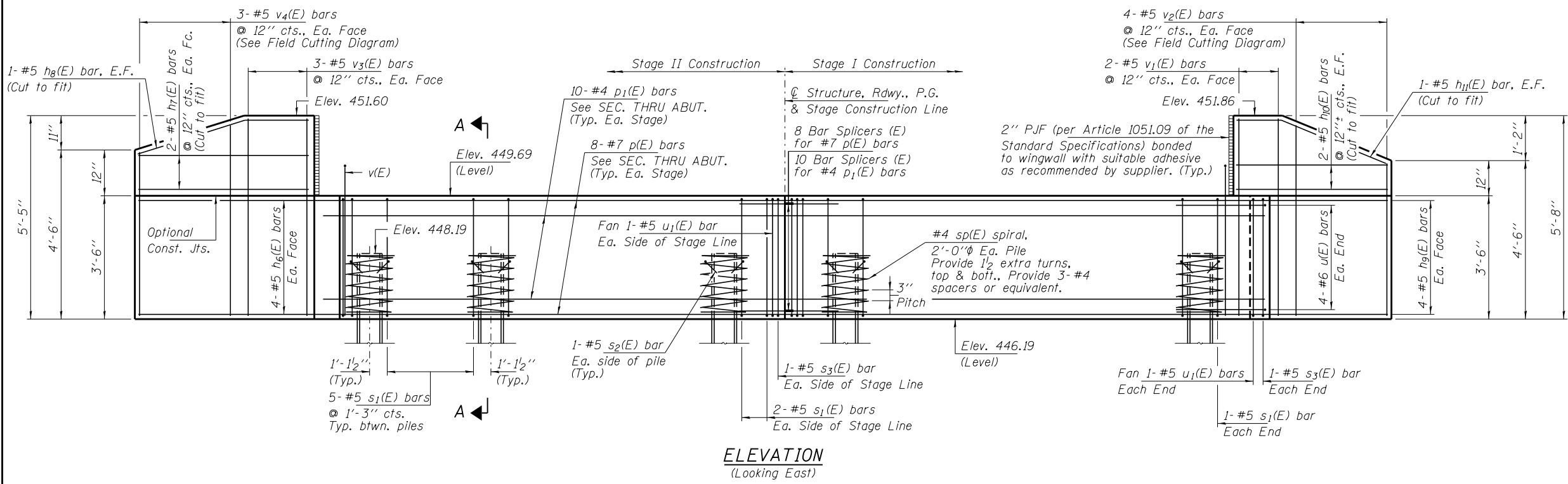
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HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - A.M.C.	REVISED -
3085 STEVENSON DRIVE, SUITE 201		DRAWN - D.A.B.	REVISED -
SPRINGFIELD, ILLINOIS 62703		CHECKED - M.D.C.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM			
LS / PE / SE CORP. 184.000959			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 041-0109

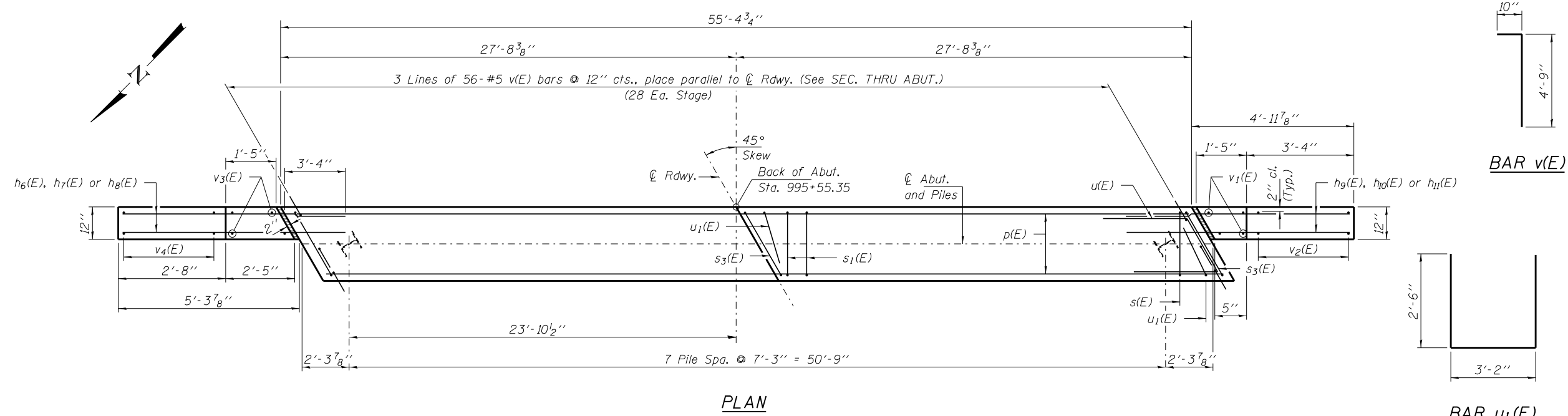
SHEET NO. 12 OF 19 SHEETS

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	36
IL 15 OVER POLE CAT CREEK			CONTRACT NO. 78119	
ILLINOIS FED. AID PROJECT				



SEC. THRU ABUT.
Dimensions at right angles to abutment.

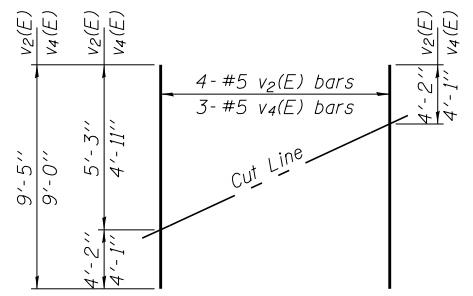
ELEVATION
(Looking East)



PLAN

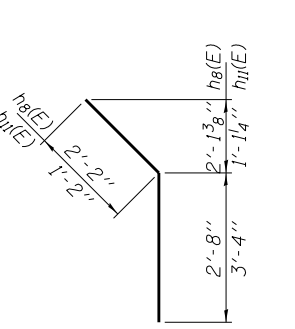
PILE DATA

Type: HP14x73 with Pile Shoes
 Nominal Required Bearing: 578 Kips/Pile
 Factored Resistance Available: 318 Kips/Pile
 Est. Length: 60' (E. Abut.)
 No. Production Piles: 7
 No. Test Piles: 1

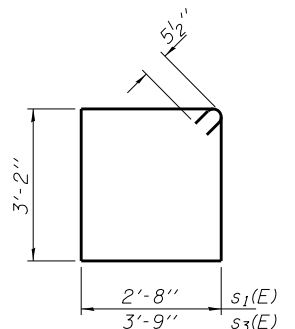


FIELD CUTTING DIAGRAM

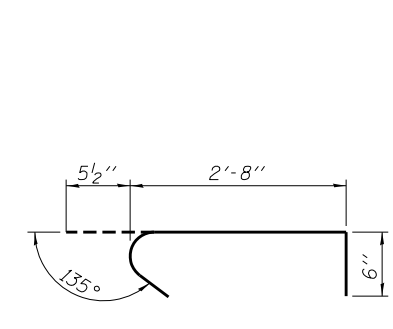
Order v2(E) & v4(E) full length. Cut as shown and use remainder of bars in opposite face.



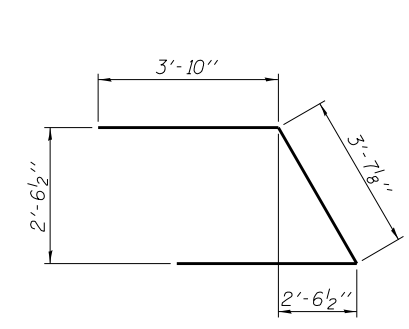
BARS h8(E) & h11(E)



BARS s1(E) & s3(E)



BAR s2(E)



BAR u1(E)

EAST ABUTMENT
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h6(E)	8	#5	8'-8"	
h7(E)	4	#5	4'-9"	
h8(E)	2	#5	4'-10"	
h9(E)	8	#5	8'-1"	
h10(E)	4	#5	4'-5"	
h11(E)	2	#5	4'-6"	
p(E)	16	#7	27'-3"	
p1(E)	20	#4	27'-3"	
s1(E)	36	#5	12'-7"	
s2(E)	16	#5	3'-8"	
s3(E)	4	#5	14'-9"	
*sp(E)	8	#4	2'-0"	MMW
u(E)	8	#6	11'-4"	
u1(E)	4	#5	8'-2"	
v(E)	168	#5	5'-7"	
v1(E)	4	#5	5'-4"	
v2(E)	4	#5	9'-5"	
v3(E)	6	#5	5'-1"	
v4(E)	3	#5	9'-0"	
			Cu. Yd.	23.2
			Pound	3,690
			Foot	420
			Each	1
			Foot	420
			Each	8
			Each	18

*Length is height of spiral.
 For details of piles see sheet 16 of 19.
 For Bar Splicer details see sheet 15 of 19.

AIS-L

8-31-12

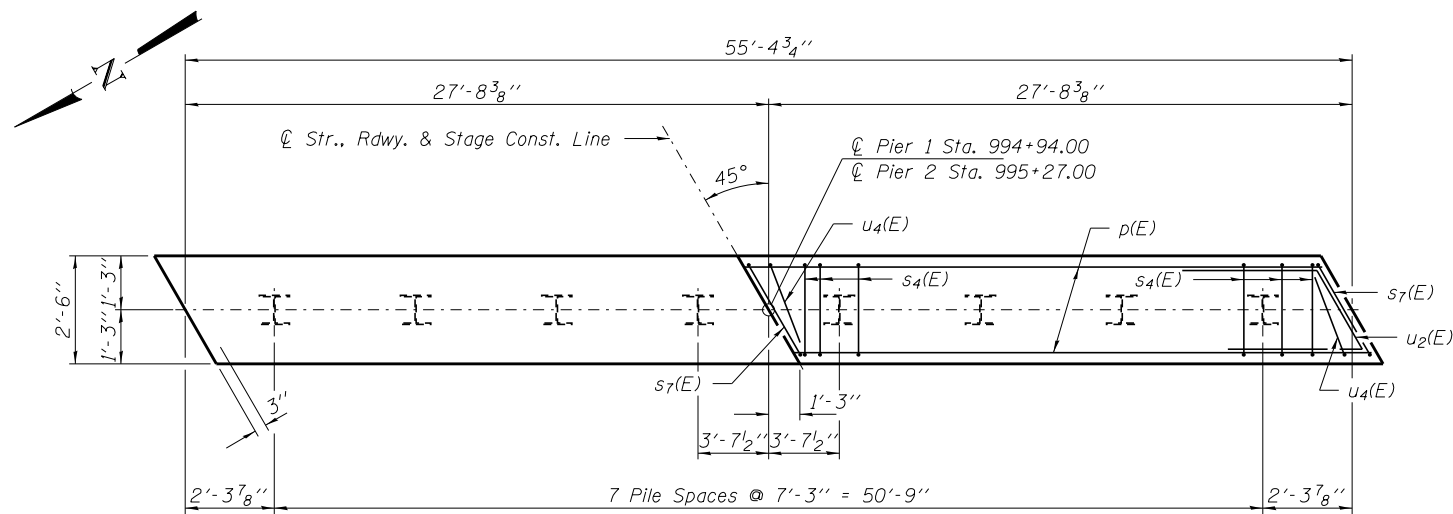
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HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - A.M.C.	REVISED -
3085 STEVENSON DRIVE, SUITE 201		DRAWN - D.A.B.	REVISED -
SPRINGFIELD, ILLINOIS 62703		CHECKED - M.D.C.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM	PLOT SCALE = #SCALE#		
LS / PE / SE CORP. 184.009959	PLOT DATE = 9/21/2016		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

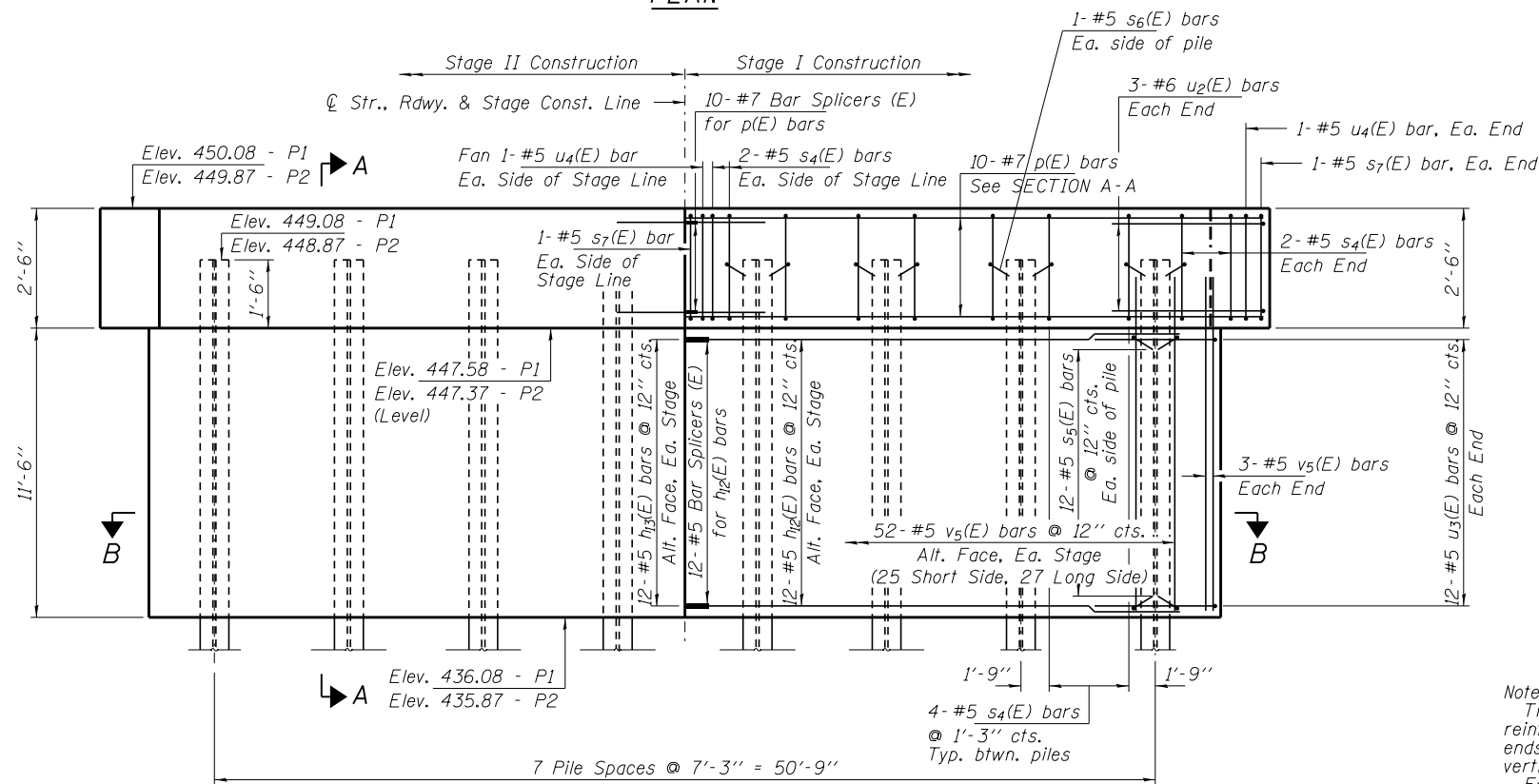
EAST ABUTMENT
STRUCTURE NO. 041-0109

SHEET NO. 13 OF 19 SHEETS

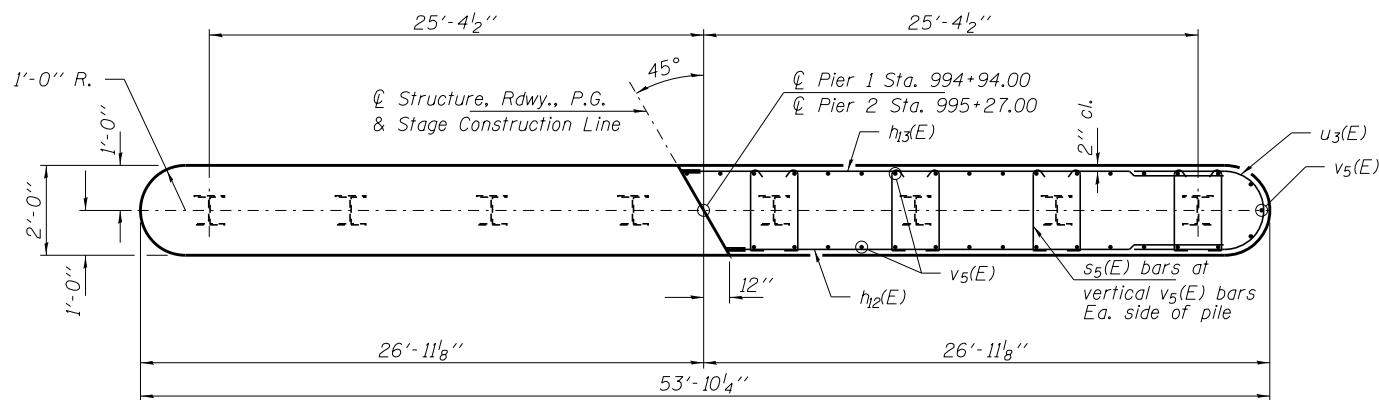
F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	37
IL 15 OVER POLE CAT CREEK			CONTRACT NO. 78119	
ILLINOIS FED. AID PROJECT				



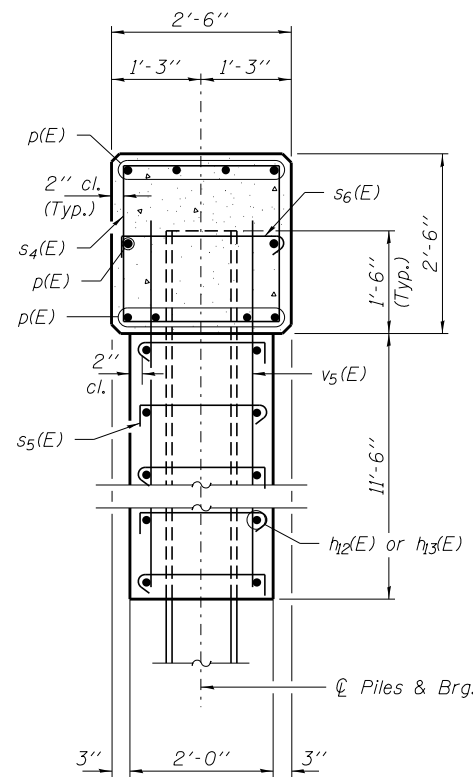
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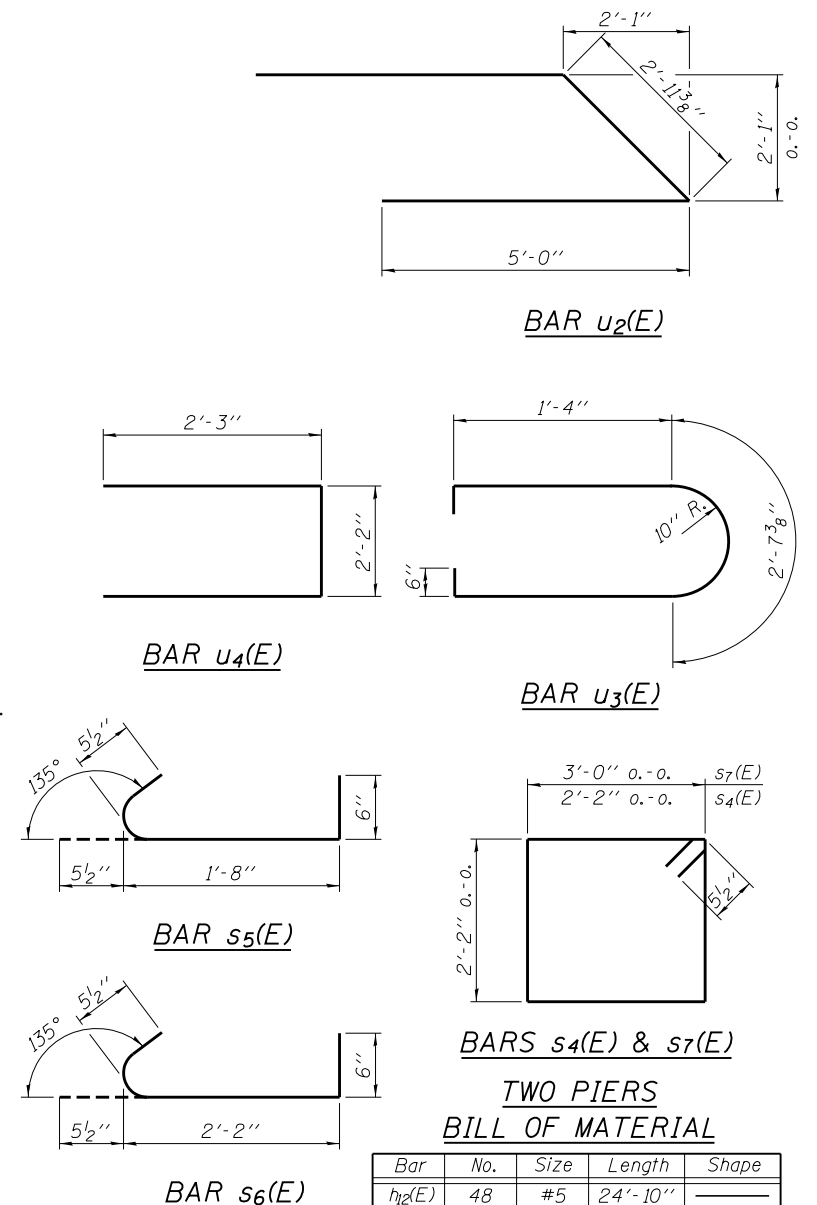
ELEVATION
(Looking East)



SECTION B-B



SECTION A-A



TWO PIERS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₂ (E)	48	#5	24'-10"	—
h ₃ (E)	48	#5	26'-6"	—
p(E)	40	#7	27'-3"	—
s ₄ (E)	64	#5	9'-7"	□
s ₅ (E)	384	#5	2'-8"	U
s ₆ (E)	32	#5	3'-2"	U
s ₇ (E)	8	#5	11'-3"	□
u ₂ (E)	12	#6	13'-0"	U
u ₃ (E)	48	#5	6'-4"	U
u ₄ (E)	8	#5	6'-8"	U
v ₅ (E)	116	#5	12'-7"	—
Concrete Structures		Cu. Yd.	116.7	
Reinforcement Bars, Epoxy Coated		Pound	8,830	
Furnishing Steel Piles HP14x73		Foot	900	
Driving Piles		Foot	900	
Test Pile HP14x73		Foot	1	
Pile Shoes		Each	16	
Cofferdam, Type 2, Location-1		Each	1	
Cofferdam, Type 2, Location-2		Each	1	
Bar Splicers		Each	68	

Notes:
 The s₅(E) bars shall enclose both the vertical and horizontal reinforcing bars. The position of the 90 and 135 degree hooked ends shall be alternated between adjacent bars as shown, both vertically and horizontally.
 For details of piles, see sheet 16 of 19.
 For Bar Splicers, see sheet 15 of 19.

PILE DATA

Type: Steel HP14x73 with Pile Shoes
 Nominal Required Bearing: 578 Kips/pile
 Factored Resistance Available: 318 Kips/pile
 Est. Length: 60'
 No. Production Piles: 15
 No. Test Piles: 1 (Pier 2)

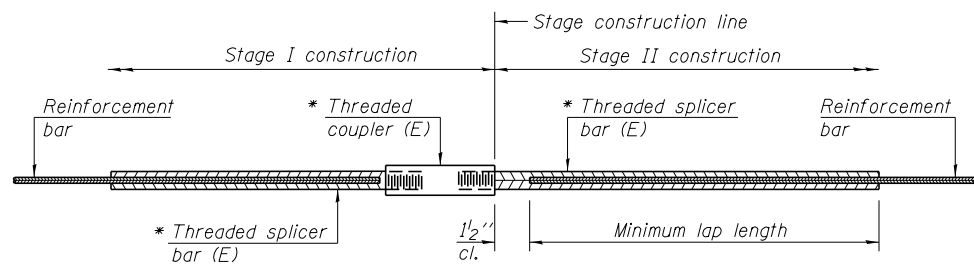
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HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	CHECKED - A.M.C.	REVISED -
PLOT DATE = 9/21/2016		DRAWN - D.A.B.	REVISED -
		CHECKED - M.D.C.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIERS
STRUCTURE NO. 041-0109

SHEET NO. 14 OF 19 SHEETS

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	38
IL 15 OVER POLE CAT CREEK			CONTRACT NO. 78119	
ILLINOIS FED. AID PROJECT				

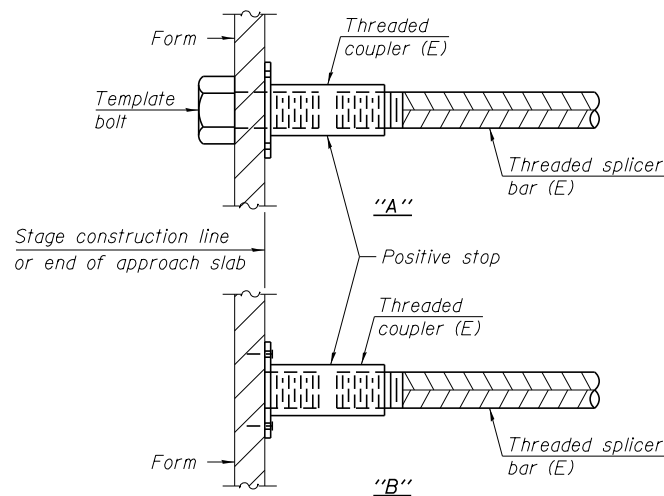


STANDARD BAR SPLICER ASSEMBLY

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

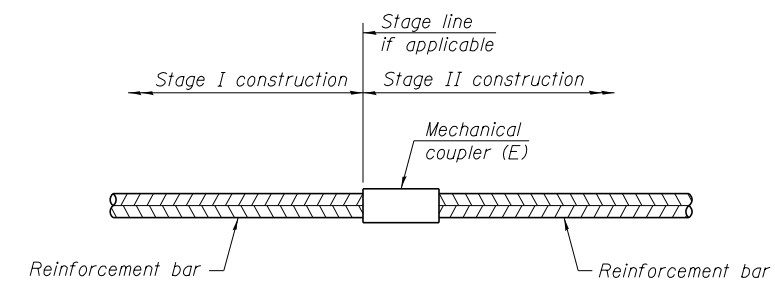
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Slab	#9	170	5'-4"
Slab	#7	135	6'-3"
Slab	#5	8	3'-6"
Appr. Slab	#5	50	3'-0"
Appr. Slab	#8	92	4'-9"
Appr. Slab Ftg.	#5	80	3'-0"
W. Abut.	#7	8	3'-10"
W. Abut.	#4	10	2'-3"
E. Abut.	#7	8	3'-10"
E. Abut.	#4	10	2'-3"
Pier 1	#7	10	3'-10"
Pier 1	#5	24	2'-9"
Pier 2	#7	10	3'-10"
Pier 2	#5	24	2'-9"



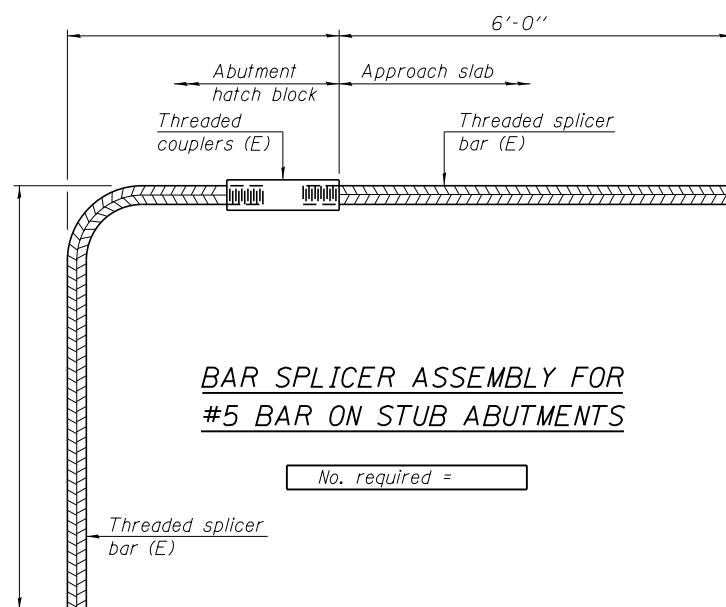
INSTALLATION AND SETTING METHODS

"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



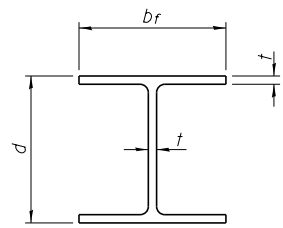
BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

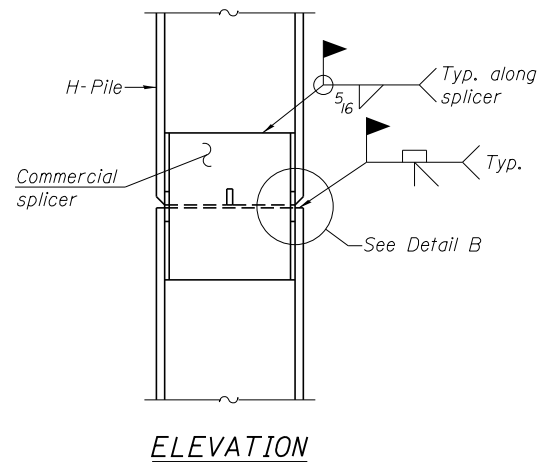
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.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

BSD-1 6-8-15

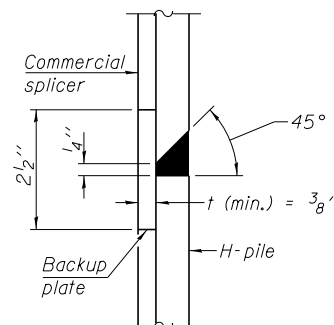


STEEL PILE TABLE

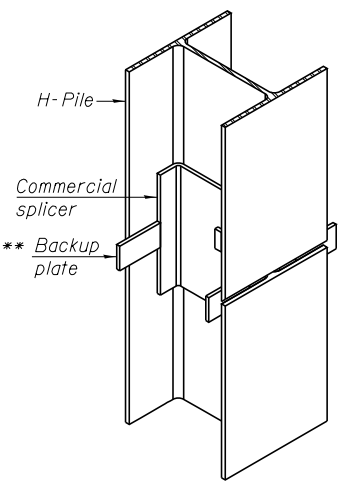
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

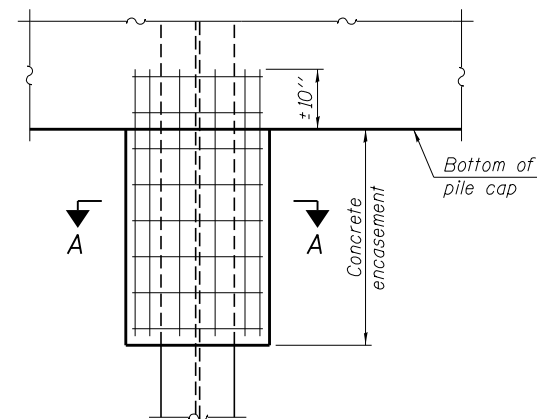


DETAIL "B"



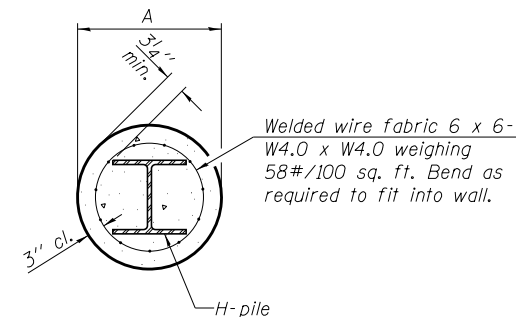
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



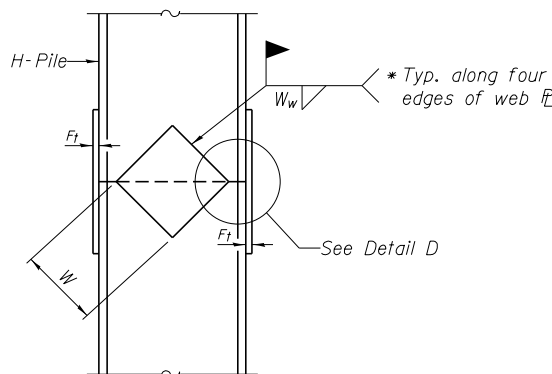
ELEVATION

PILE ENCASEMENT

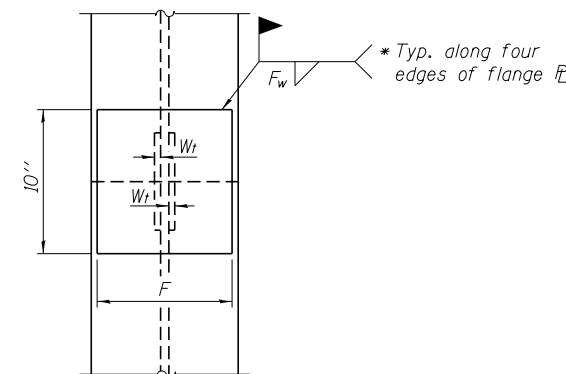


SECTION A-A

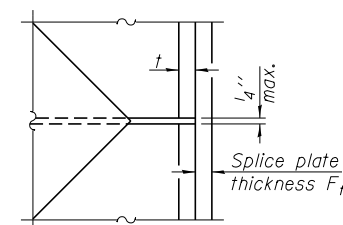
Note:
Forms for encasement may be omitted when soil conditions permit.



ELEVATION



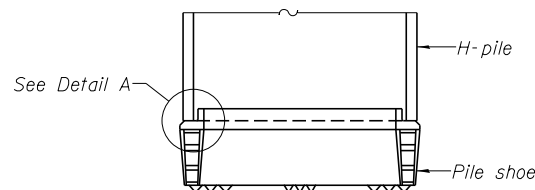
END VIEW



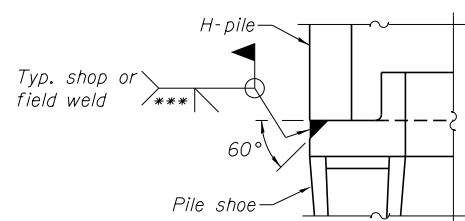
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

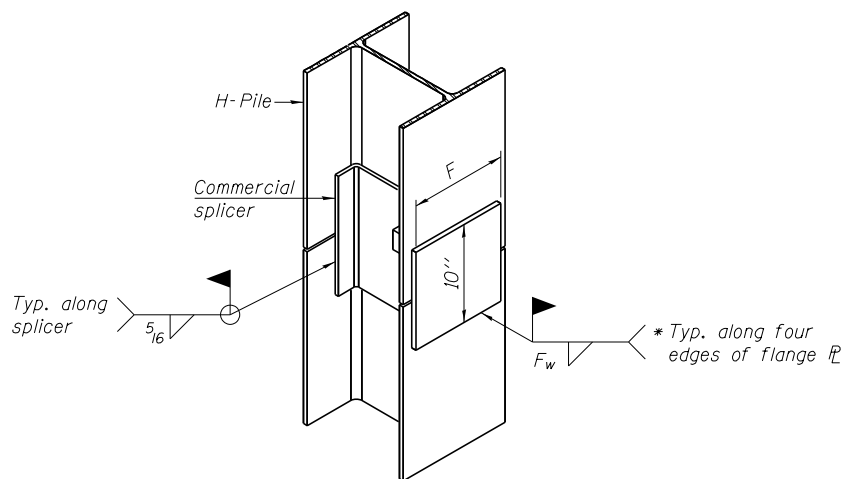


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

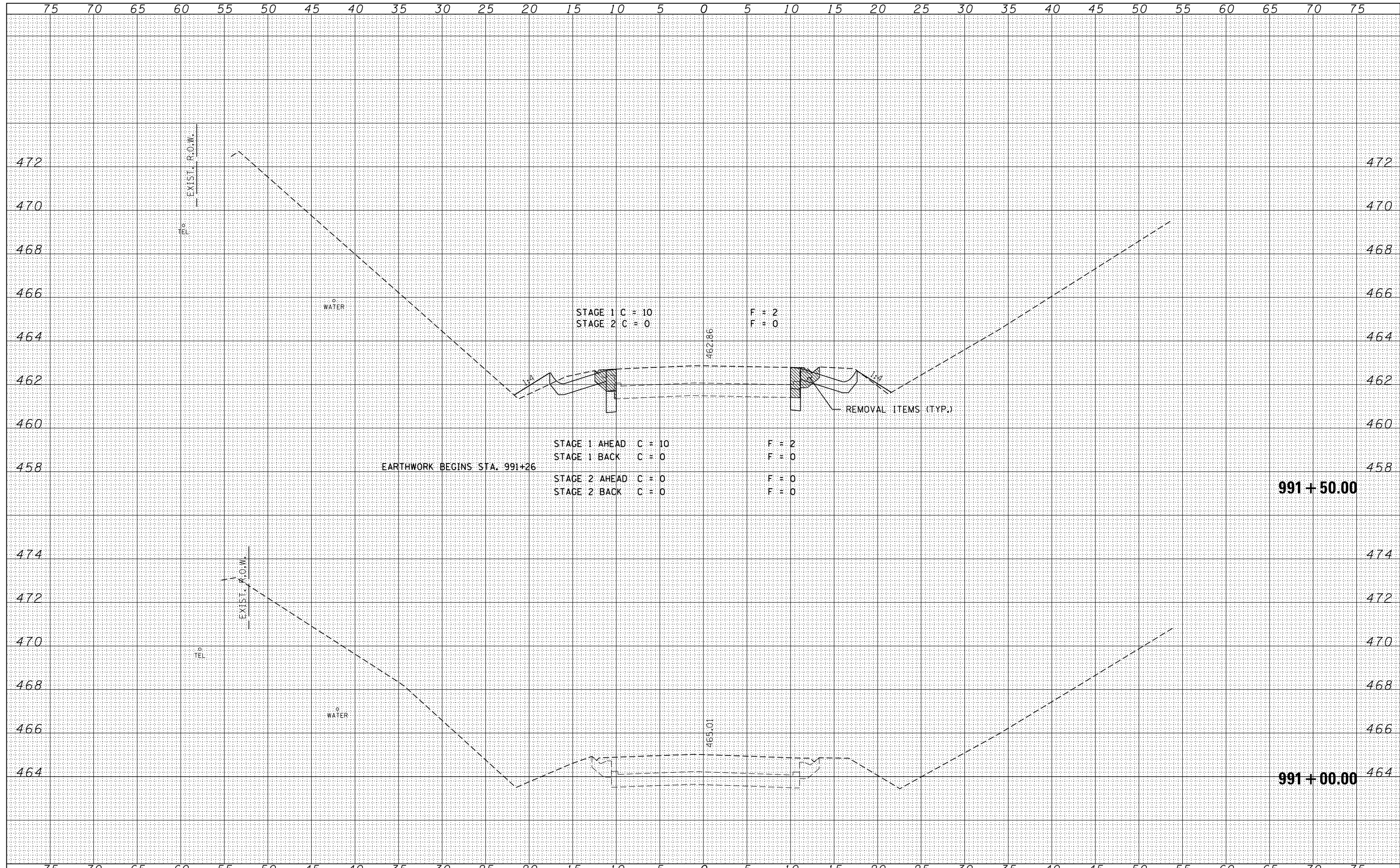
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 1-27-12

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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	CHECKED - A.M.C.	REVISED -			821	12B-1	JEFFERSON	57	40	
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		CHECKED - M.D.C.	REVISED -			SHEET NO. 16 OF 19 SHEETS					

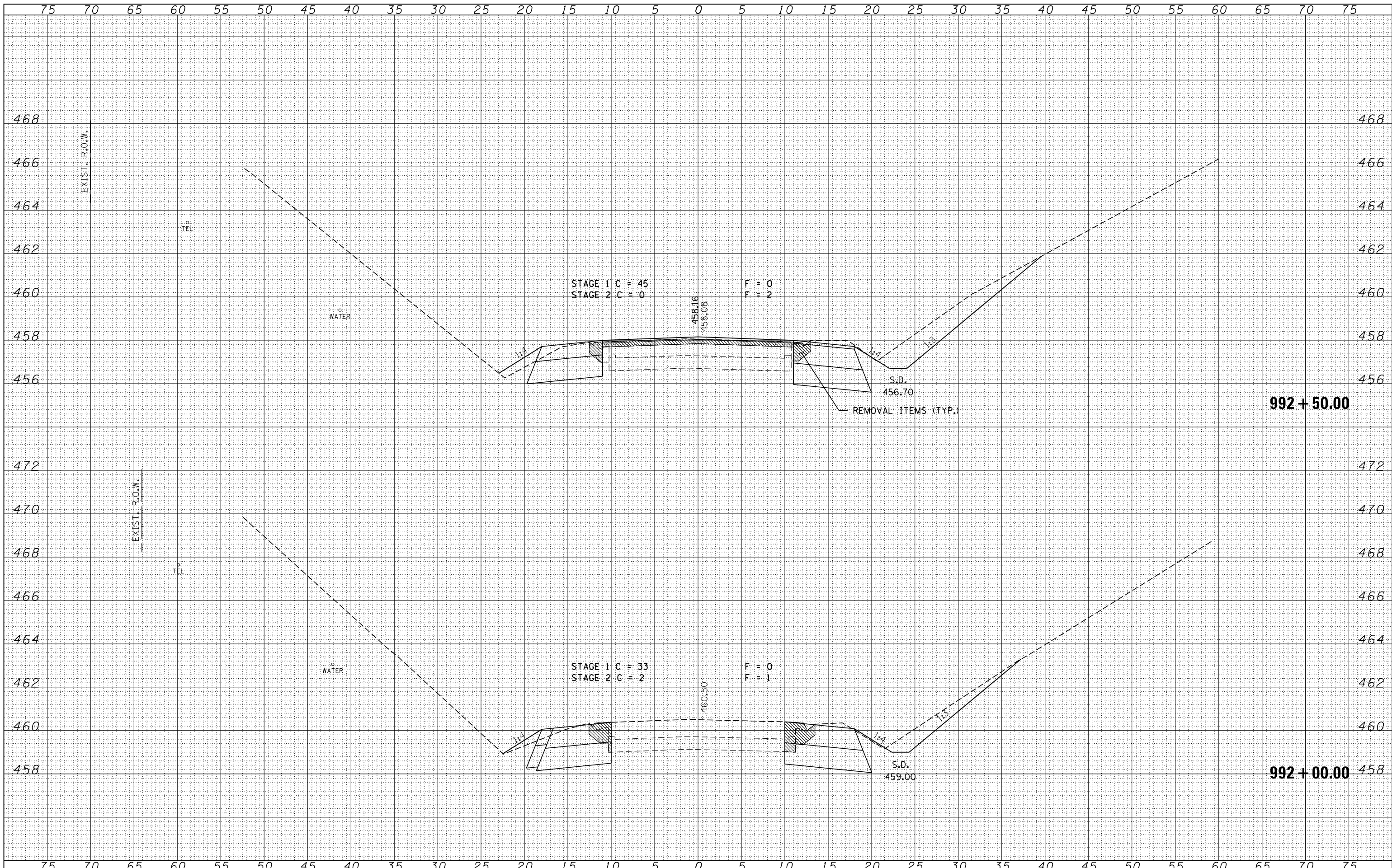
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BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
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DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
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NO.	



DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

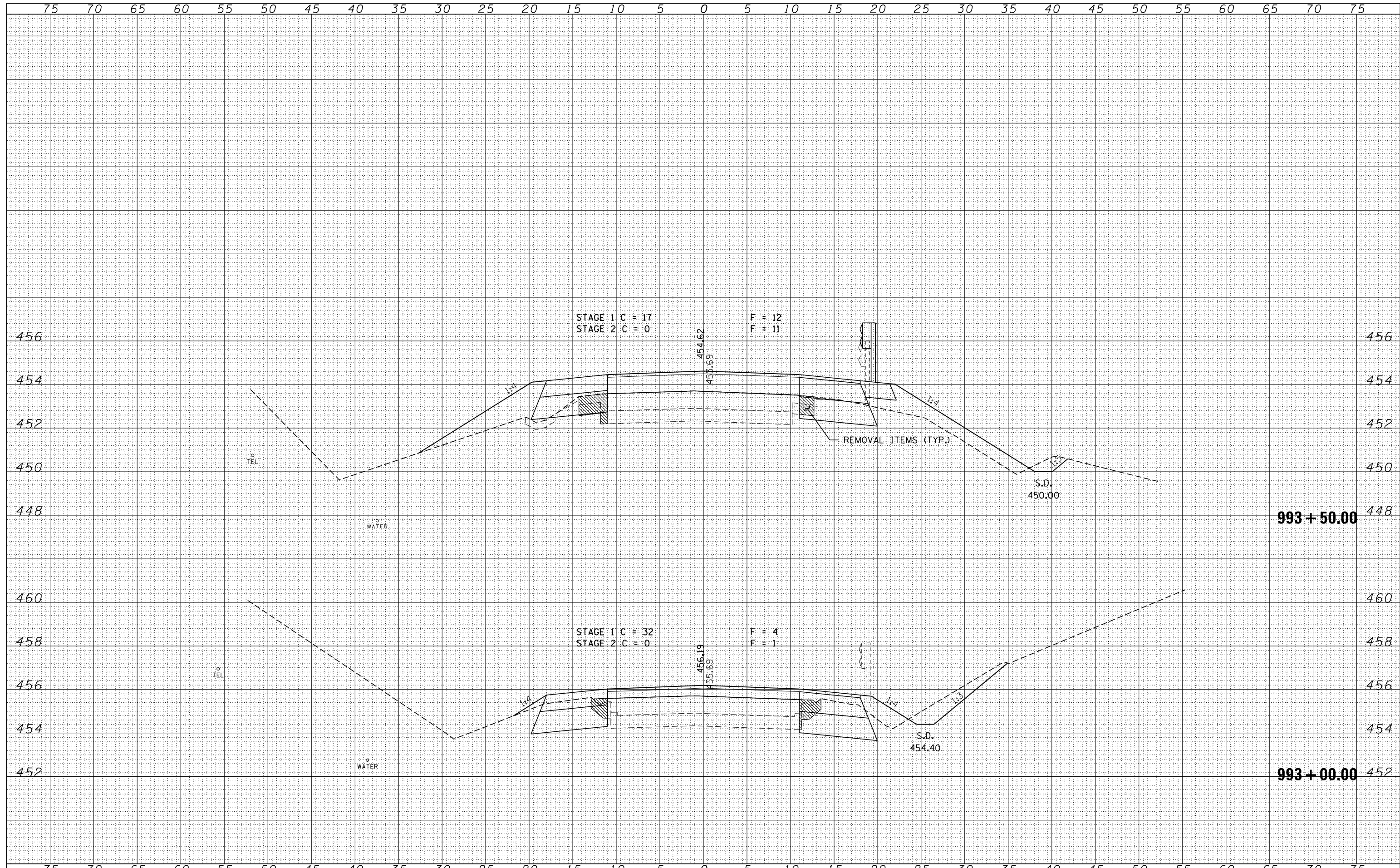
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BY	
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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000958		DRAWN - T.W.K.	REVISÉD -					821	12B-1	JEFFERSON	57	45
PLOT SCALE = *SCALE*		CHECKED - L.A.P.	REVISÉD -		CONTRACT NO. 78119			ILLINOIS FED. AID PROJECT				
PLOT DATE = 9/21/2016		DATE - 09/21/16	REVISÉD -		SCALE: 2V:5H	SHEET NO.	OF SHEETS	STA. 992+00.00 TO STA. 992+50.00				

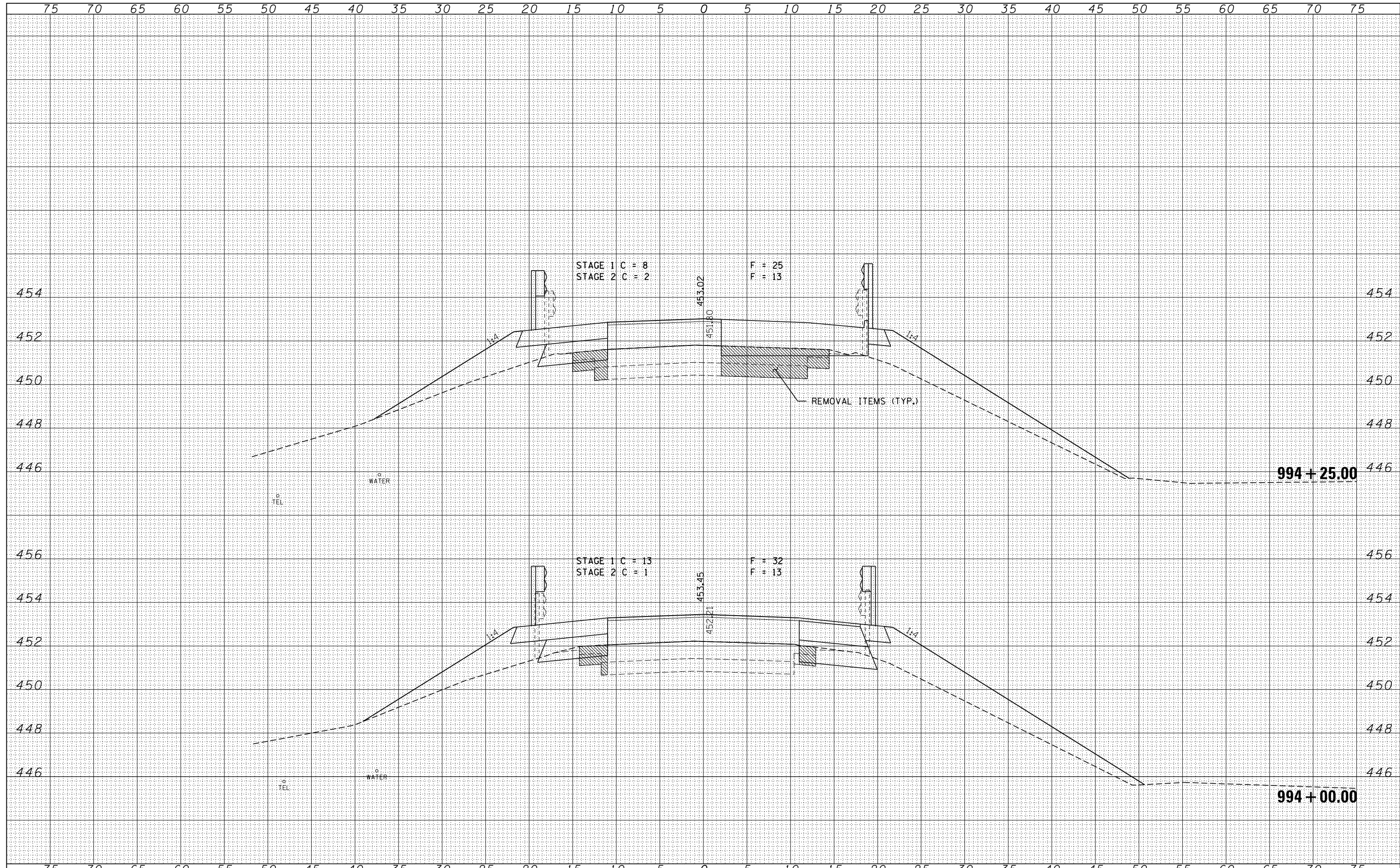
BY	DATE
FINL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	

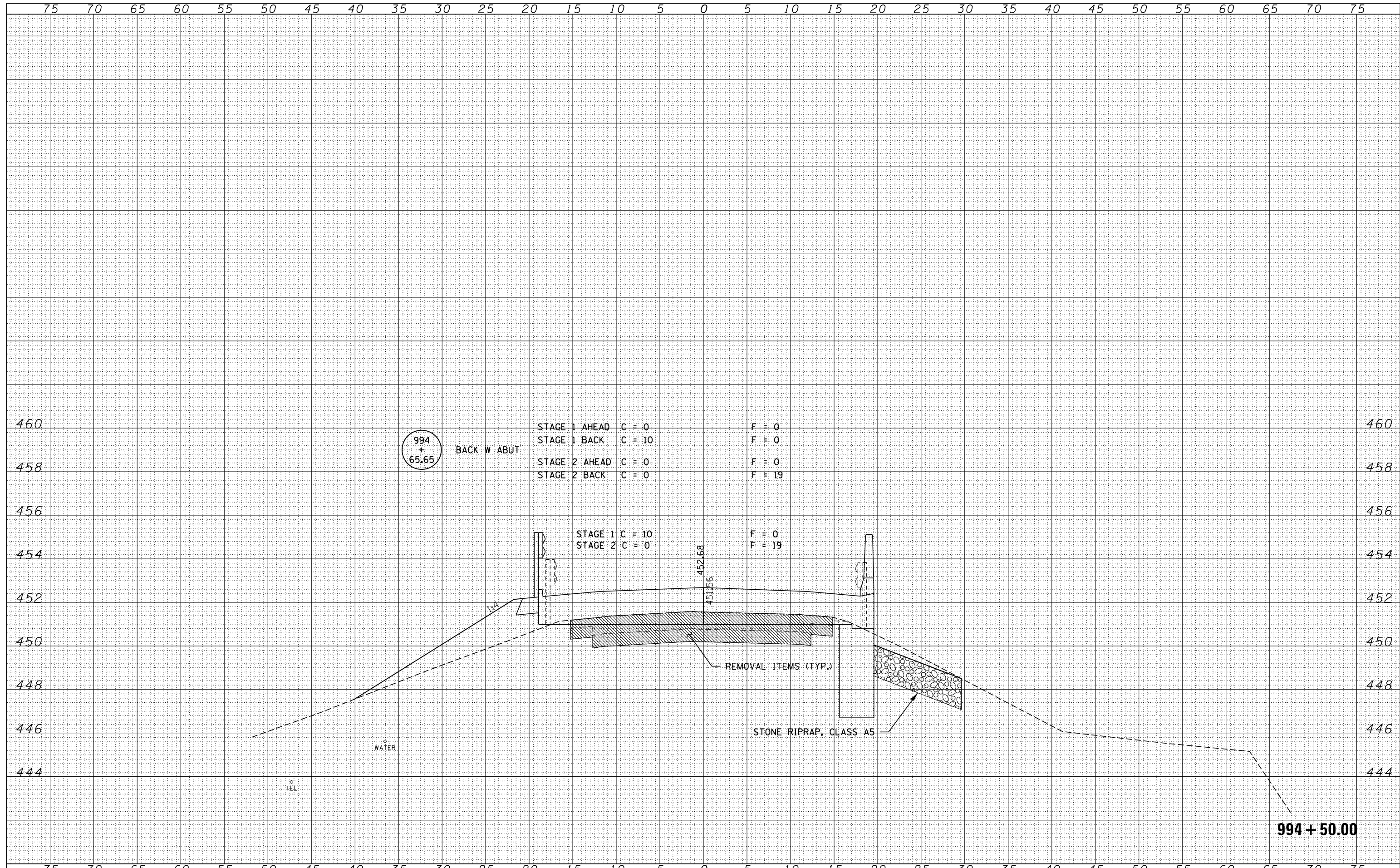
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -		821	12B-1	JEFFERSON	57	47			
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000958		CHECKED - L.A.P.	REVISED -		SCALE: 2V:5H		SHEET NO. OF SHEETS		STA. 994+00.00 TO STA. 994+25.00		CONTRACT NO. 78119	
		DATE - 09/21/16	REVISED -		ILLINOIS FED. AID PROJECT							

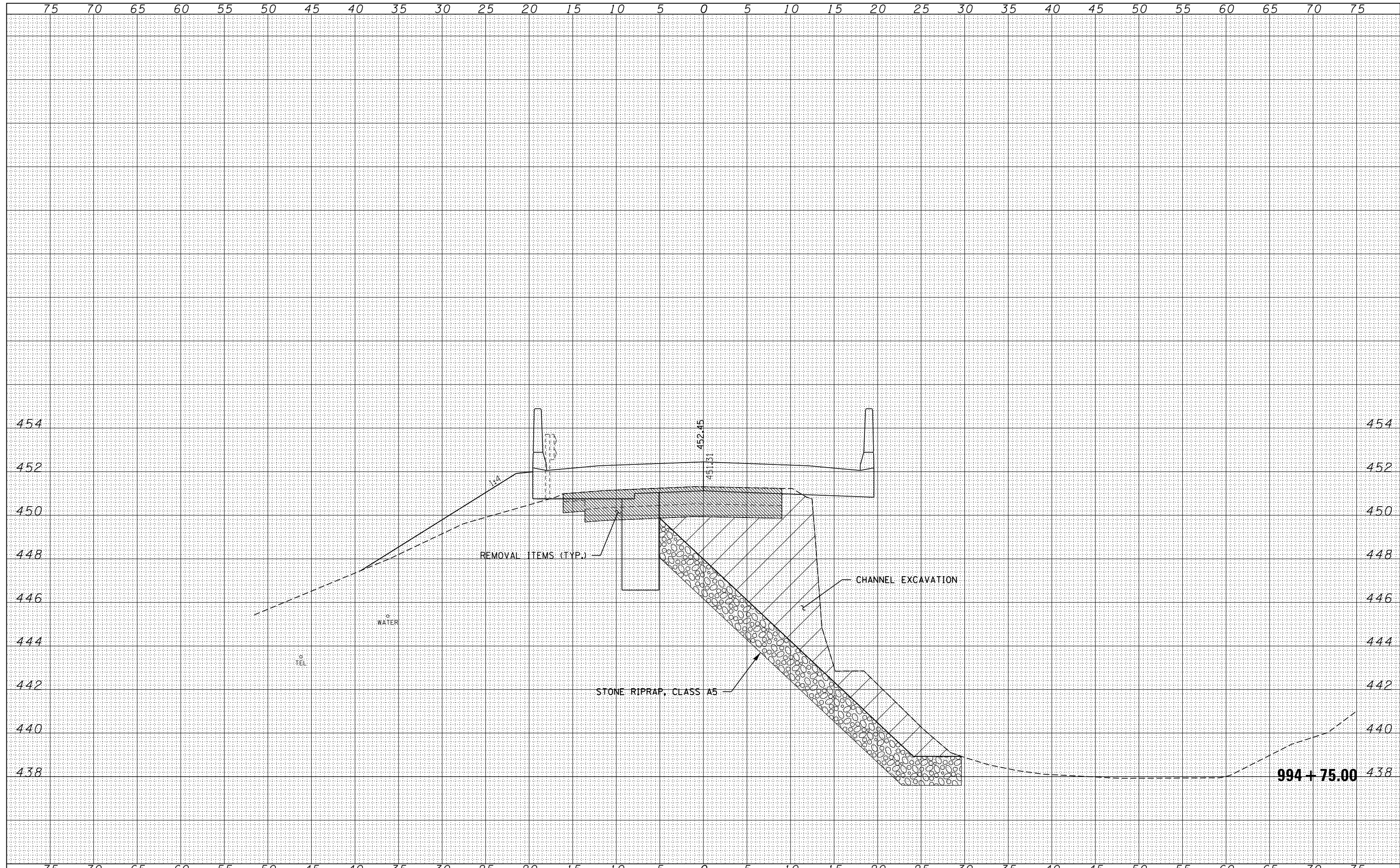
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FINAL SURVEY NOTE BOOK NO.	

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ORIGINAL SURVEY NOTE BOOK NO.	



DATE	
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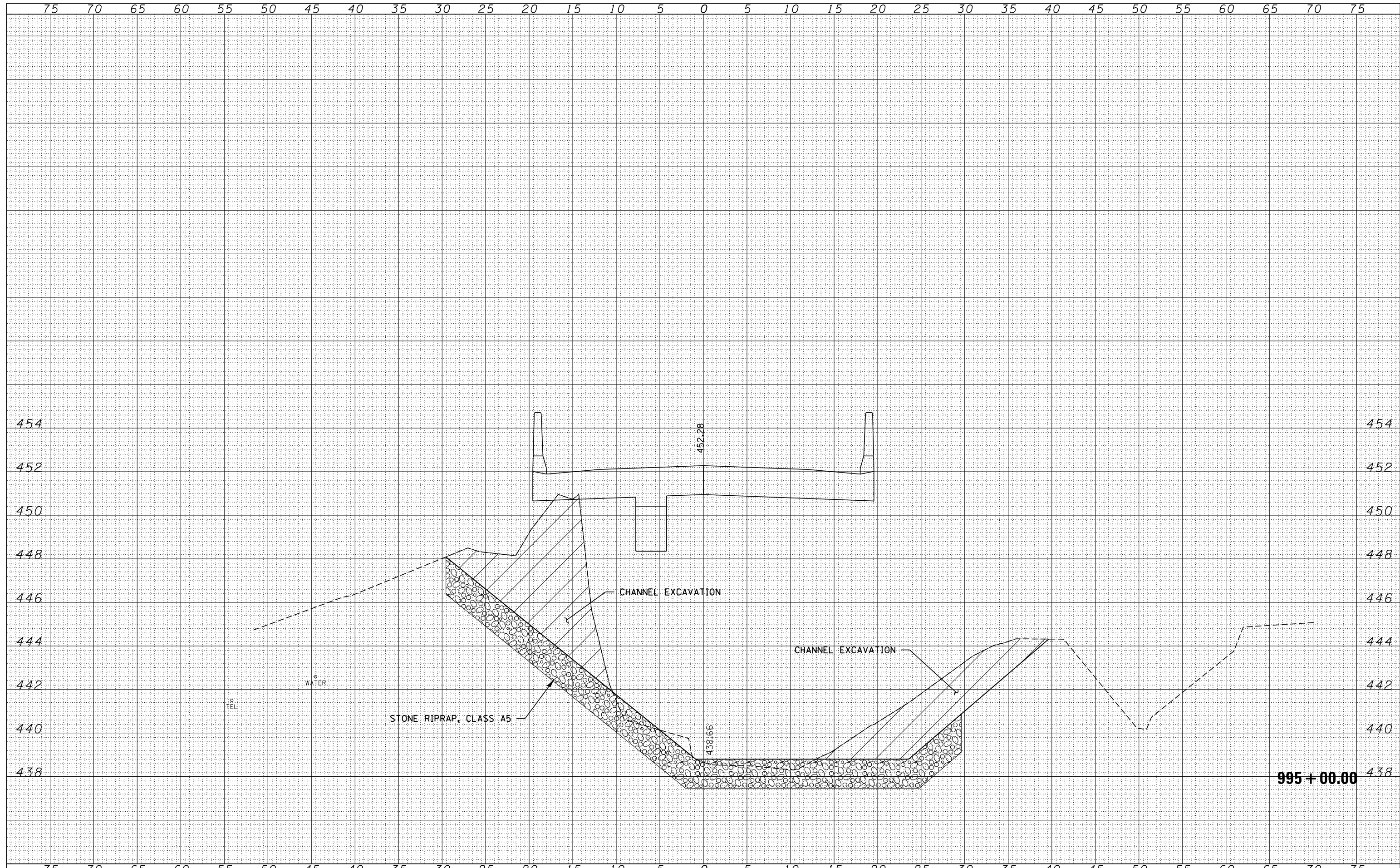
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME = 78119-sht-xssht.dgn	USER NAME = *USERS*	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS ILLINOIS ROUTE 15		F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -		821	12B-1	JEFFERSON	57	49			
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E. CORP. 184-000958		CHECKED - L.A.P.	REVISED -		SCALE: 2V:5H		SHEET NO. OF SHEETS		STA. 994+75.00 TO STA. 994+75.00		CONTRACT NO. 78119	
		DATE - 09/21/16	REVISED -		ILLINOIS FED. AID PROJECT							

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FINAL SURVEY	
NOTE BOOK	
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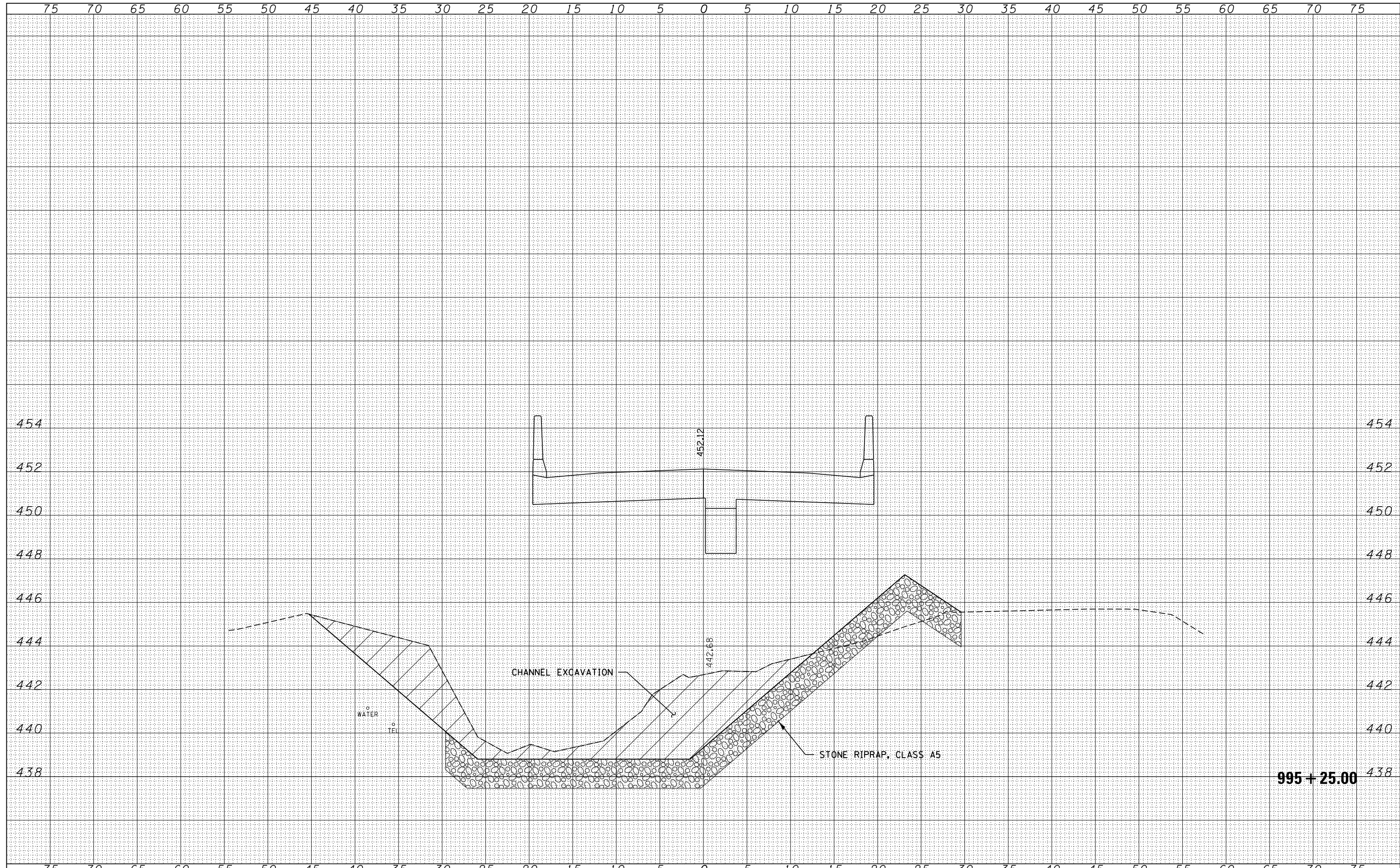
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME = 78119-sht-xssht.dgn	USER NAME = *USERS*	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS ILLINOIS ROUTE 15		F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -		821	12B-1	JEFFERSON	57	50			
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E. CORP. 184.000958		CHECKED - L.A.P.	REVISED -		SCALE: 2V:5H		SHEET NO. OF SHEETS		STA. 995+00.00 TO STA. 995+00.00		CONTRACT NO. 78119	
		DATE - 09/21/16	REVISED -		ILLINOIS FED. AID PROJECT							

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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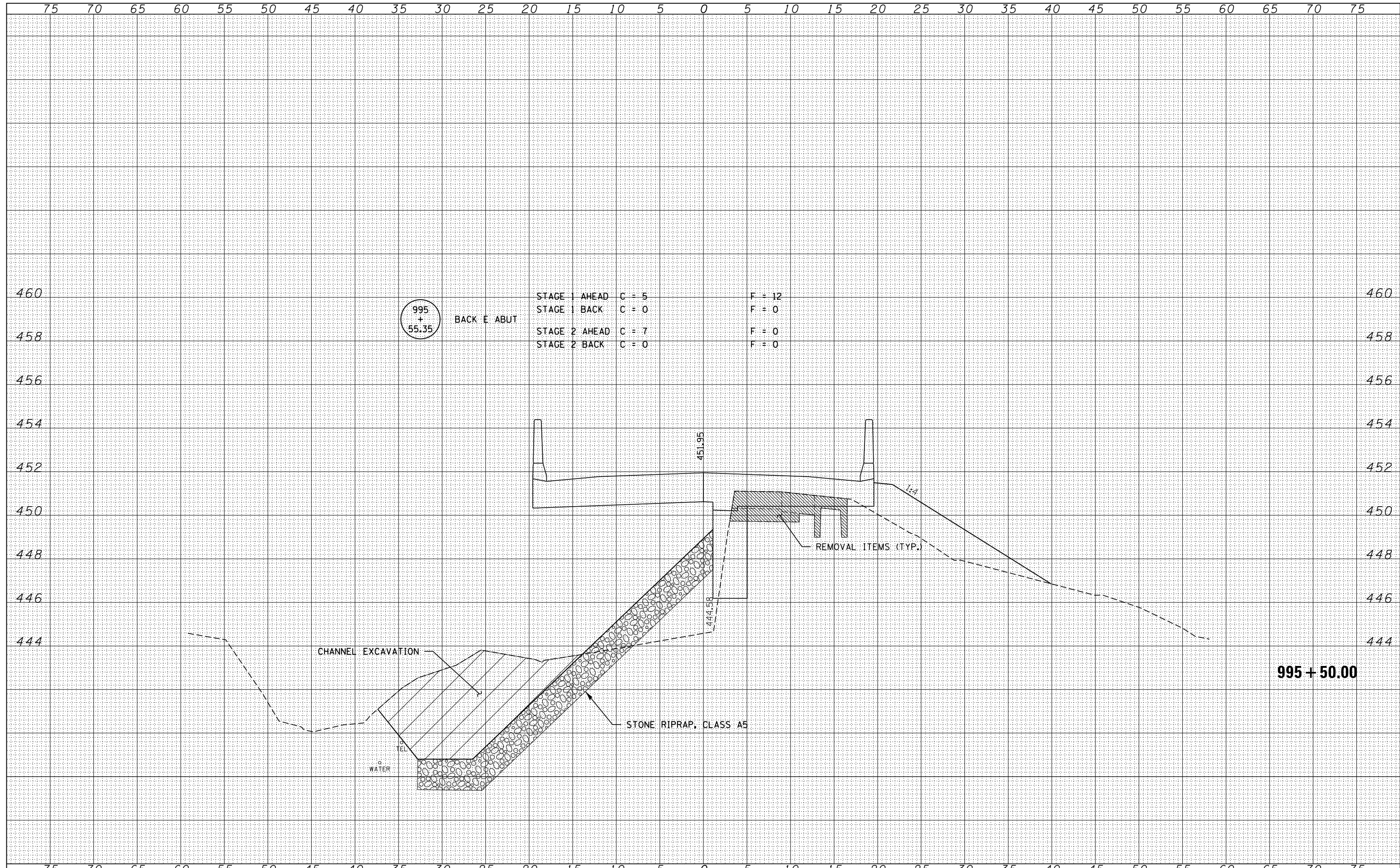
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NOTE BOOK	PLOTTED
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	AREAS CHECKED
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FILE NAME = 78119-sht-xssht.dgn	USER NAME = *USERS*	DESIGNED - J.W.F.	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS ILLINOIS ROUTE 15			F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISD -		821	12B-1	JEFFERSON	57	51			
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E. CORP. 184.000958		CHECKED - L.A.P.	REVISD -		CONTRACT NO. 78119			ILLINOIS FED. AID PROJECT				
		DATE - 09/21/16	REVISD -		SCALE: 2V:5H	SHEET NO.	OF SHEETS	STA. 995+25.00	TO STA. 995+25.00			

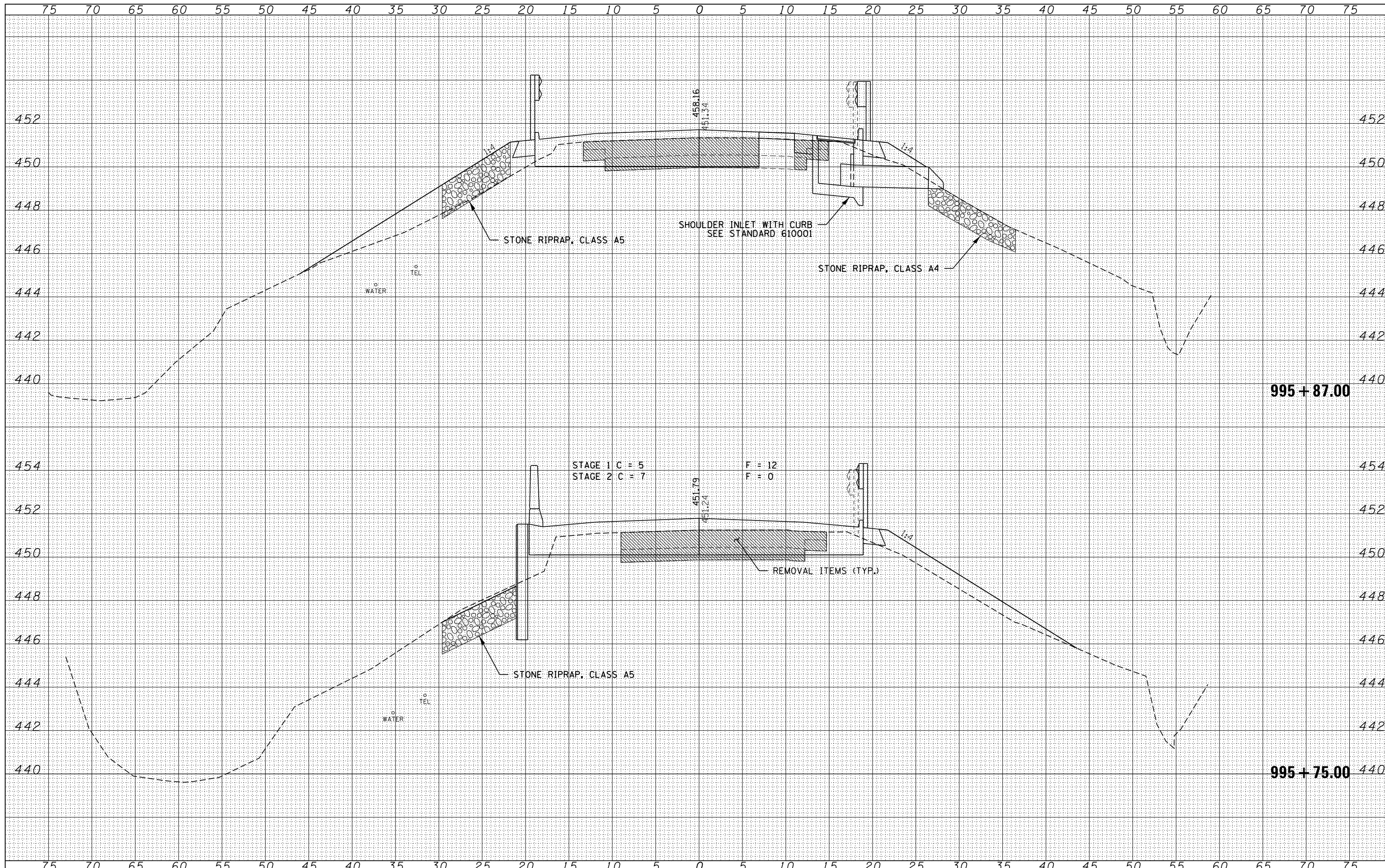
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NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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SURVEY	
NOTE BOOK	
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FILE NAME = 78119-sht-xssht.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3885 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 L.S. / P.E. / S.E. CORP. 184-009858

USER NAME = *USERS*
 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - L.A.P.
 DATE - 09/21/16

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

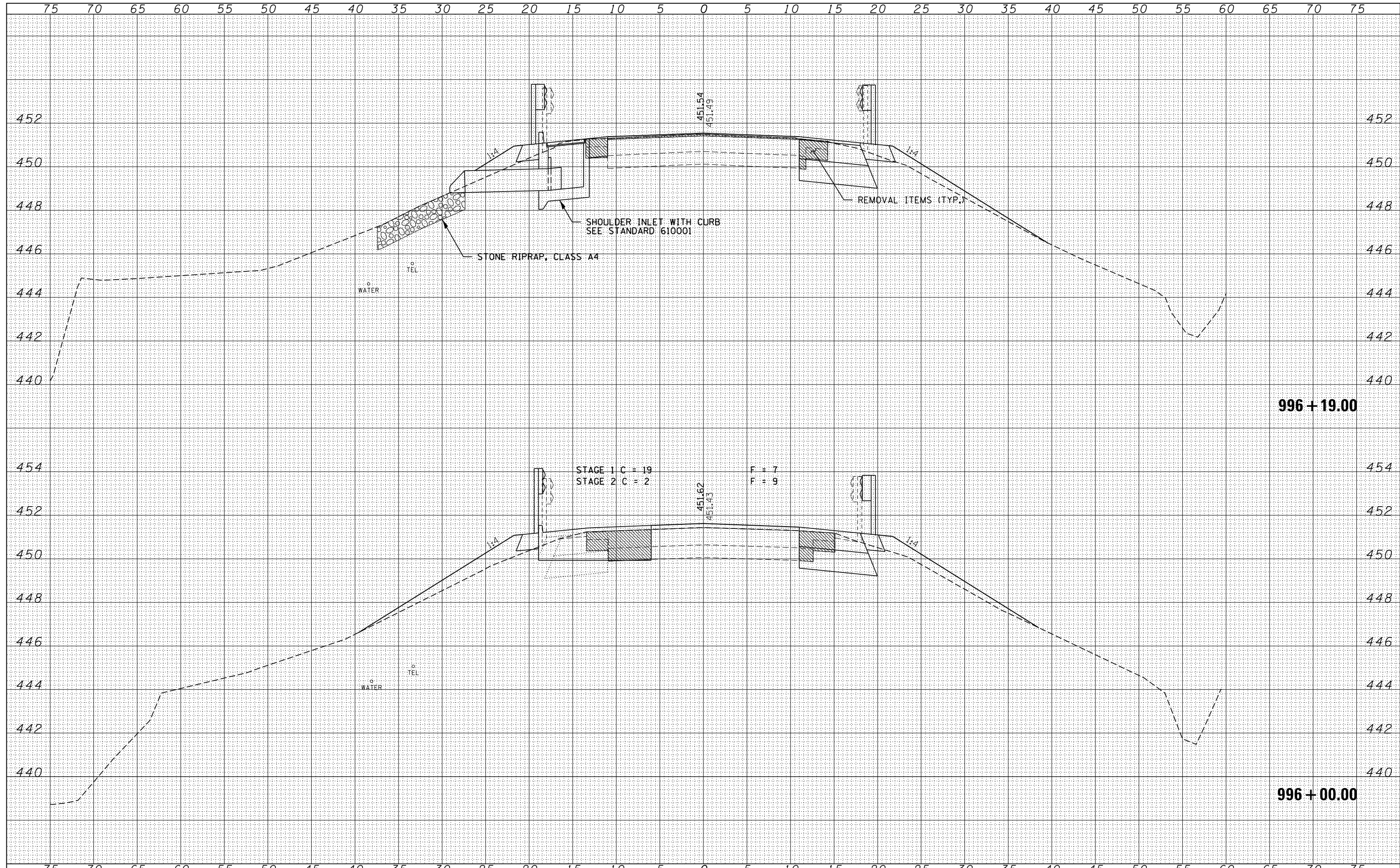
CROSS SECTIONS
ILLINOIS ROUTE 15

SCALE: 2V:5H SHEET NO. OF SHEETS STA. 995+75.00 TO STA. 995+87.00

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	53
CONTRACT NO. 78119				
ILLINOIS FED. AID PROJECT				

DATE	
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ORIGINAL SURVEY NO.	
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TEMPLATE	
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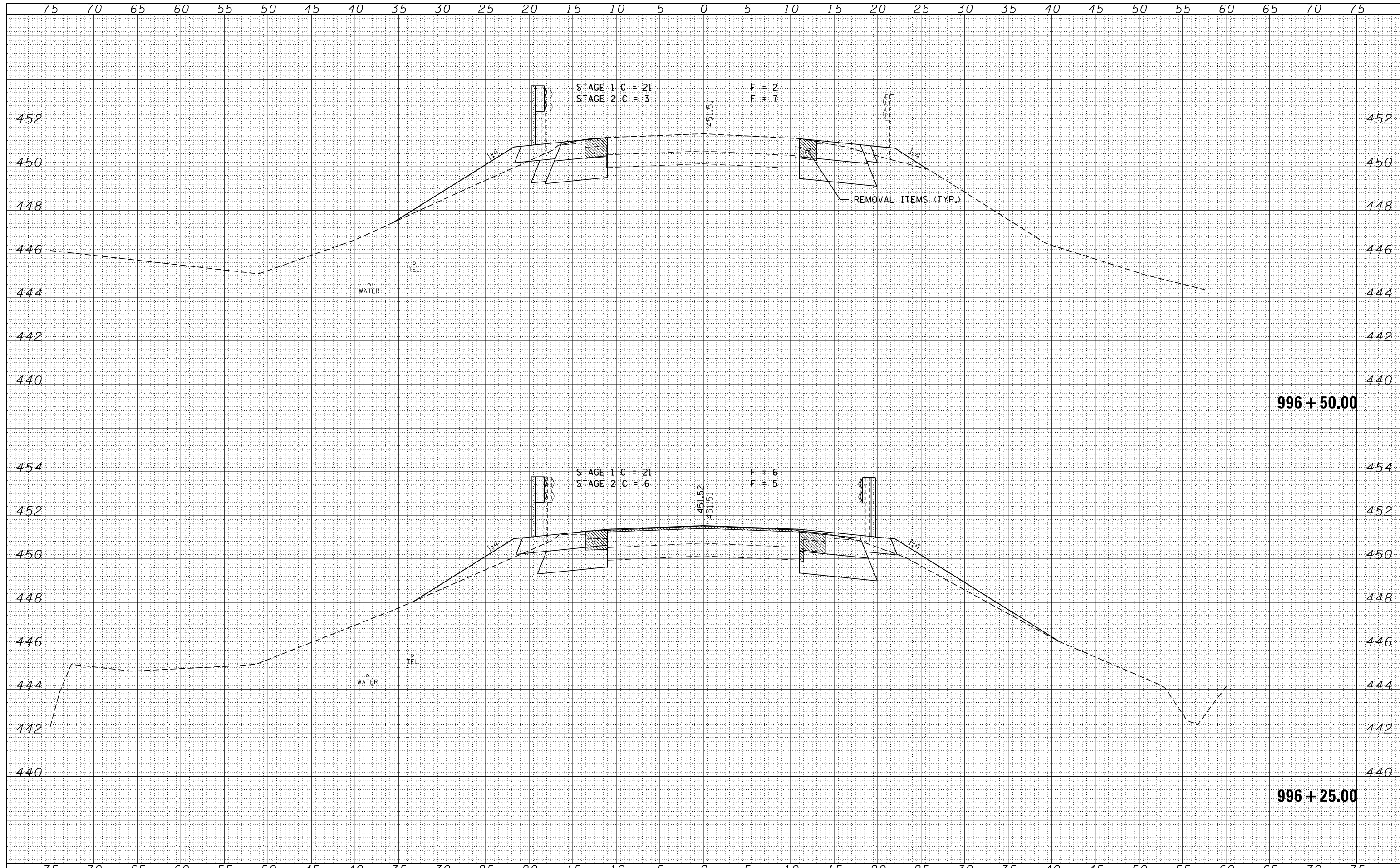
DATE	
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ORIGINAL SURVEY NO.	
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FILE NAME = 78119-shr-ssht.dgn	USER NAME = *USERS*	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS ILLINOIS ROUTE 15		F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000958		DRAWN - T.W.K.	REVISED -		821	12B-1	JEFFERSON	57	54		
		CHECKED - L.A.P.	REVISED -		SCALE: 2V:5H		SHEET NO. OF SHEETS		CONTRACT NO. 78119		
		DATE - 09/21/16	REVISED -		STA. 996+00.00 TO STA. 996+19.00		ILLINOIS FED. AID PROJECT				

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TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
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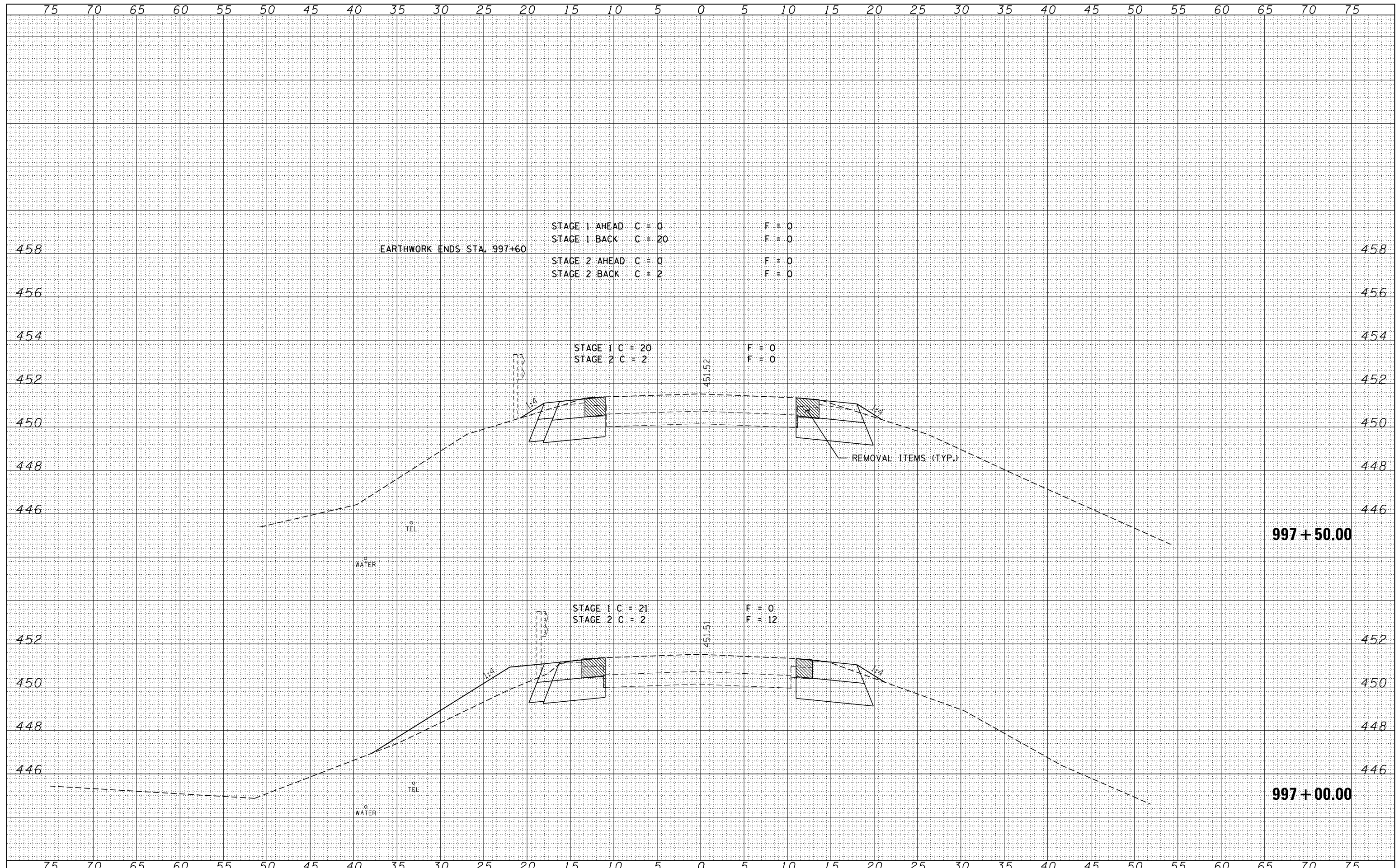
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NOTE BOOK	
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FILE NAME = 78119-sht-xssht.dgn	USER NAME = *USERS*	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS ILLINOIS ROUTE 15			F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -		821	12B-1	JEFFERSON	57	55			
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.000958		CHECKED - L.A.P.	REVISED -		CONTRACT NO. 78119			ILLINOIS FED. AID PROJECT				
		DATE - 09/21/16	REVISED -		SCALE: 2V:5H	SHEET NO.	OF SHEETS	STA. 996+25.00	TO STA. 996+50.00			

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FINAL SURVEY	
NOTE BOOK	
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DATE	
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PLOTTED	
TEMPLATE	
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CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME = 78119-shr-xssht.dgn
 HAMPSON, LENZINI AND RENWICK, INC.
 3885 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000958

USER NAME = *USERS*
 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - L.A.P.
 DATE - 09/21/16
 PLOT SCALE = *SCALE*
 PLOT DATE = 9/21/2016

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 REVISSED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 ILLINOIS ROUTE 15

SCALE: 2V:5H
 SHEET NO. OF SHEETS STA. 997+00.00 TO STA. 997+50.00

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	12B-1	JEFFERSON	57	56
CONTRACT NO.			78119	
ILLINOIS FED. AID PROJECT				

