11-04-2016 LETTING ITEM 027

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 78204		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION

PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 322 (US 51)
OVER DRAINAGE DITCH
SECTION: 4B-1
PROJECT ACF-0322(099)
STRUCTURE REPLACEMENT
JACKSON COUNTY

C-99-062-10

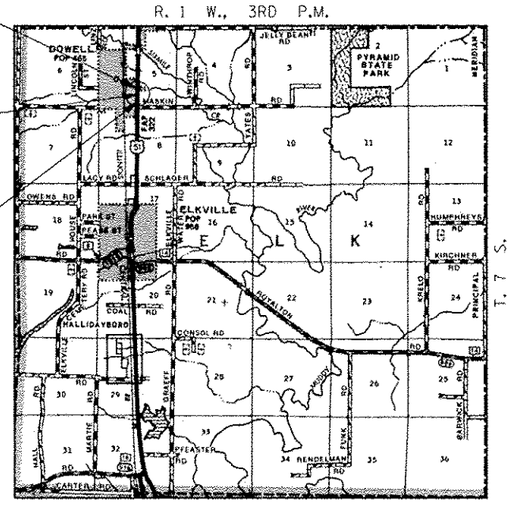
D-99-060-10

LOCATION OF SECTION INDICATED THUS: –

IMPROVEMENT ENDS
STATION 756+20

STATION 755+80
FOUR 12' SPAN X 5' RISE
REINFORCED CONCRETE BOX CULVERTS
LENGTH = 62'-0"; SKEW = 0°
EXISTING SN 039-2027
PROPOSED SN 039-2030

IMPROVEMENT BEGINS
STATION 755+40



LOCATION MAP

APPROXIMATE SCALE: 0 1 MILE

NET LENGTH OF PROJECT = 80 FEET = 0.015 MILES
GROSS LENGTH OF PROJECT = 80 FEET = 0.015 MILES

DESIGN DESIGNATION : NA

COORDINATE SYSTEM : NA

POSTED SPEED : 55 MPH

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-6

FOR STRUCTURAL PAVEMENT DESIGN INFORMATION, SEE SHEET NO.: NA

TRAFFIC DATA

US 51 TRAFFIC DATA

2012 ADT = 8202
2032 ADT = 10228
6.40 % TRUCKS

TOWNSHIP:

ELK

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

PROJECT ENGINEER: DAVID PICHE

CONTRACT NO. 78204

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
184.000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

DATE: 07/08/2016
LICENSED PROFESSIONAL ENGINEER
JOSEPH W. HAZEL
062-54470
STATE OF ILLINOIS
EXPIRES: 11/30/2017

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION

SUBMITTED August 4 20 16
Jeffrey J. Kern
REGION FIVE ENGINEER

Sept 30 20 16
Maureen M. Addis, P.E. for
acting ENGINEER OF DESIGN AND ENVIRONMENT

Sept 30 20 16
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

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

2. 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.

3. 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.

4. 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.

5. 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.

6. ALL OBSTRUCTIONS WHICH ARE WITHIN THE CLEAR ZONE SHOWN ON THE TYPICAL SECTION SHALL BE REMOVED BETWEEN STATION **753+80** AND STATION **757+80**. 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.

7. IF SO DIRECTED BY THE ENGINEER, DITCHES ADJACENT TO EMBANKMENTS SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.

8. 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 - 0.05 LB./SQ.FT.
   INTERMEDIATE LIFTS (TACK COAT) - 0.025 LB./SQ.FT.
   ON AGGREGATE SURFACE - 0.25 LB./SQ.FT.
   RIPRAP - 1.5 TONS/CU.YD.

9. 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.

10. 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.

11. 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.

12. 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.

13. 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.

14. 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.

GENERAL NOTES

15. 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.

16. 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.

17. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE LEFT IN PLACE UNTIL REMOVAL IS REQUIRED TO CONSTRUCT FINAL GRADE LINES.

18. COMMITMENTS: NONE AS OF 8/12/2016

UTILITIES

AMEREN ILLINOIS I.P.
2610 BROADWAY
MT. VERNON, IL 62864
ATTN: MIKE TATLOCK
TEL*: (618) 244-8271
CELL: (618) 367-3338

FRONTIER COMMUNICATIONS
208 WEST UNION
MARION, IL 62959
ATTN: RICK SHAW
TEL*: (618) 997-0253

MCI
7719 WEST 60TH PLACE
SUMMIT, IL 60501
ATTN: JIM TODD
TEL*: (708) 458-6410
CELL: (219) 771-2672

MEDIACOM
1603 E. DEYOUNG ST.
MARION, IL. 62959
ATTN: CRAIG THOMPSON
TEL*: (270) 703-9490

ZAYO GROUP
900 CAMBRIDGE CT
GODFREY, IL 62035
ATTN: TIM PLANK
TEL*: (314) 774-2133
CELL: (618) 971-0586

DOWELL, VILLAGE OF
213 UNION AVE
DOWELL, IL. 62927
ATTN: DENNIS STEWART
TEL*: (618) 568-1513

INDEX OF SHEETS

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-08	PAVEMENT JOINTS
420601-06	24' (7.2m) PCC PAVEMENT
482001-02	HMA SHOULDERS ADJACENT TO FLEXIBLE PAVEMENT
482006-03	HMA SHOULDER ADJACENT TO RIGID PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 4.5M (15') 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
701321-15	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-05	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREPARED BY: _____
DISTRICT STUDIES & PLANS 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

FILE NAME = 78204-sht-gennote.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3365 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LB FPE / GE CORP. 184.000959		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - L.F.S.	REVISED -
	PLOT DATE = 7/14/2016	DATE - 07/08/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX, GENERAL NOTES & STANDARDS
US 51 / ROOSEVELT STREET

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

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	2
		CONTRACT NO. 78204		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0011	
		UNIT	039-2030 80% FEDERAL 20% STATE
20200100	EARTH EXCAVATION	CU YD	210
20700220	POROUS GRANULAR EMBANKMENT	CU YD	220
25000210	SEEDING, CLASS 2A	ACRE	0.25
25000350	SEEDING, CLASS 7	ACRE	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	19
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	13
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	13
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.2
25100115	MULCH, METHOD 2	ACRE	0.50
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	59
28000400	PERIMETER EROSION BARRIER	FOOT	535
28100107	STONE RIPRAP, CLASS A4	SQ YD	83
28100109	STONE RIPRAP, CLASS A5	SQ YD	203
28200200	FILTER FABRIC	SQ YD	286

19 ^ SEE SPECIAL PROVISIONS

FILE NAME = 78204-sht-SOQ.dgn	USER NAME = *USER*	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = *SCALE*	CHECKED - L.F.S.	REVISED -
	PLOT DATE = 7/13/2016	DATE - 07/08/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
US 51 / ROOSEVELT STREET

SCALE: | SHEET NO. 1 OF 4 SHEETS | STA. | TO STA.

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	48-1	JACKSON	30	3
		CONTRACT NO. 78204		
	ILLINOIS FED. AID PROJECT			

SUMMARY OF QUANTITIES

CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0011	
		UNIT	039-2030 80% FEDERAL 20% STATE
31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	454
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	495
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1301
42000500	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	232
42001300	PROTECTIVE COAT	SQ YD	232
44000100	PAVEMENT REMOVAL	SQ YD	294
44004250	PAVED SHOULDER REMOVAL	SQ YD	108
44213100	PAVEMENT FABRIC	SQ YD	232
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	82
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	673
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	68560
50800515	BAR SPLICERS	EACH	306
51500100	NAME PLATES	EACH	1

^ SEE SPECIAL PROVISIONS

FILE NAME = 78204-sht-500.dgn	USER NAME = #USER#	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES US 51 / ROOSEVELT STREET		F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -				322	4B-1	JACKSON	30	4
HLR	PLOT SCALE = #SCALE#	CHECKED - L.F.S.	REVISED -		SCALE:	SHEET NO. 2 OF 4 SHEETS STA. TO STA.			CONTRACT NO. 78204		
	PLOT DATE = 7/13/2016	DATE - 07/08/16	REVISED -						ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0011	
		UNIT	039-2030 80% FEDERAL 20% STATE
^ 52200010	TEMPORARY SHEET PILING	SQ FT	465
54003000	CONCRETE BOX CULVERTS	CU YD	307.3
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6
67100100	MOBILIZATION	L SUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	6
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
^ 70106600	CHANGEABLE MESSAGE SIGN	CAL MO	1.0
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2438.0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	108
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	37
70400100	TEMPORARY CONCRETE BARRIER	FOOT	388

(4)

^ SEE SPECIAL PROVISIONS

FILE NAME = 78204-sht-SQD.dgn	USER NAME = &USER$	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES US 51 / ROOSEVELT STREET
HAMPTON, LENZINI AND RENWICK, INC. 3305 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM 184.001483		DRAWN - T.W.K.	REVISED -		
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	PLOT DATE = 7/13/2016	DATE - 07/08/16	REVISED -		

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	48-1	JACKSON	30	5
		CONTRACT NO. 78204		
		ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES

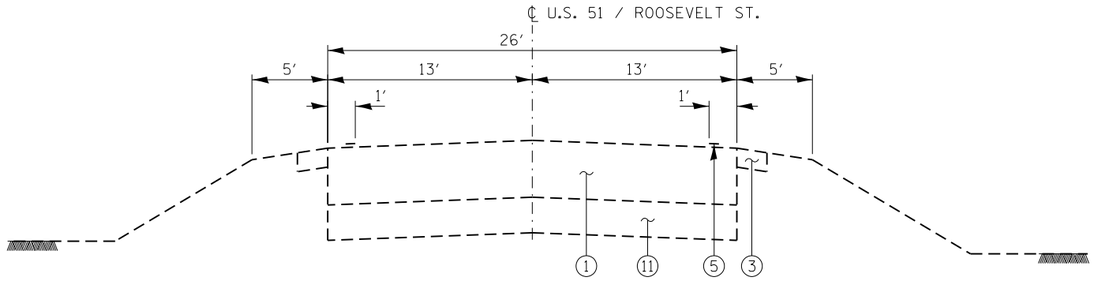
	CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0011 UNIT	039-2030 80% FEDERAL 20% STATE
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	338
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST	EACH	2
		LEVEL 3		
^	70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST	EACH	2
		LEVEL 3		
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2438
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	19
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	19
*	86200300	UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1053
	X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	66

9

^ SEE SPECIAL PROVISIONS

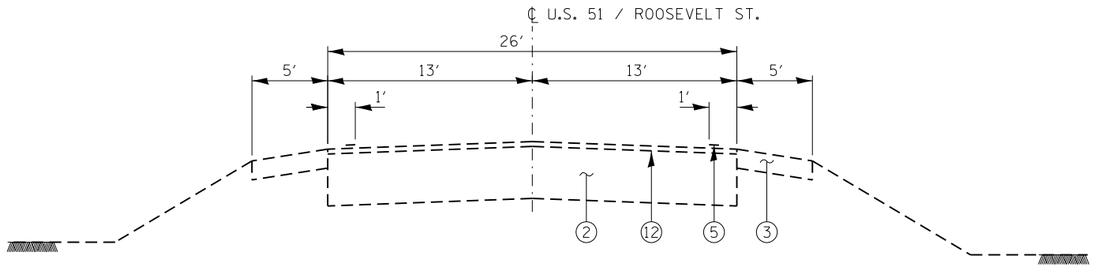
* SPECIALTY ITEM

FILE NAME = 78204-sht-500.dgn	USER NAME = #USER#	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES US 51 / ROOSEVELT STREET	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3555 STEVENSON DRIVE, SUITE 204 SPRINGFIELD, ILLINOIS 62703		DRAWN - T.W.K.	REVISED -			322	4B-1	JACKSON	30	6
ELRWICK PROFESSIONAL DESIGN FIRM LIC/PE/ INC CORP. 184.005603	PLOT SCALE = #SCALE#	CHECKED - L.F.S.	REVISED -		SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.			CONTRACT NO. 78204		
	PLOT DATE = 7/13/2016	DATE - 07/08/16	REVISED -			ILLINOIS FED. AID PROJECT				



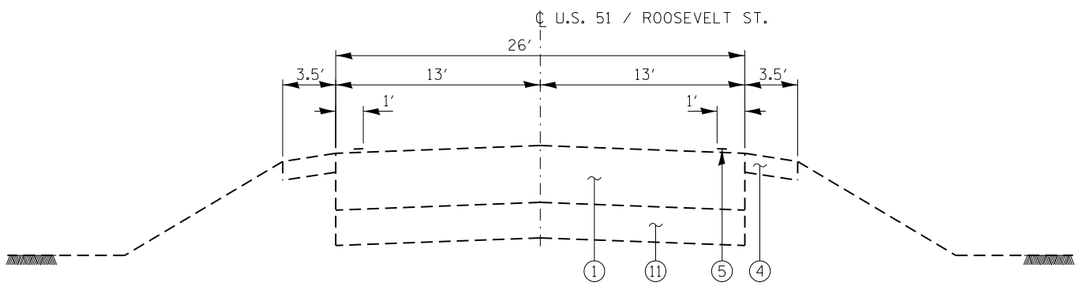
EXISTING TYPICAL SECTION

STA. 753+80 TO STA. 755+50
STA. 756+14 TO STA. 756+27



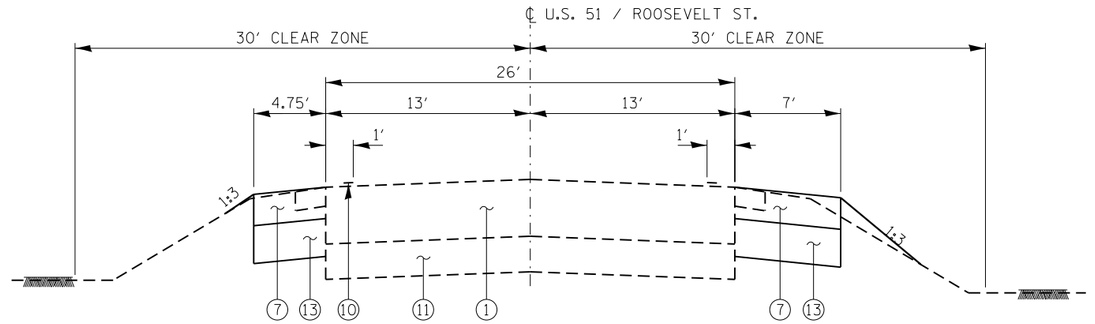
EXISTING TYPICAL SECTION

STA. 755+50 TO STA. 756+14



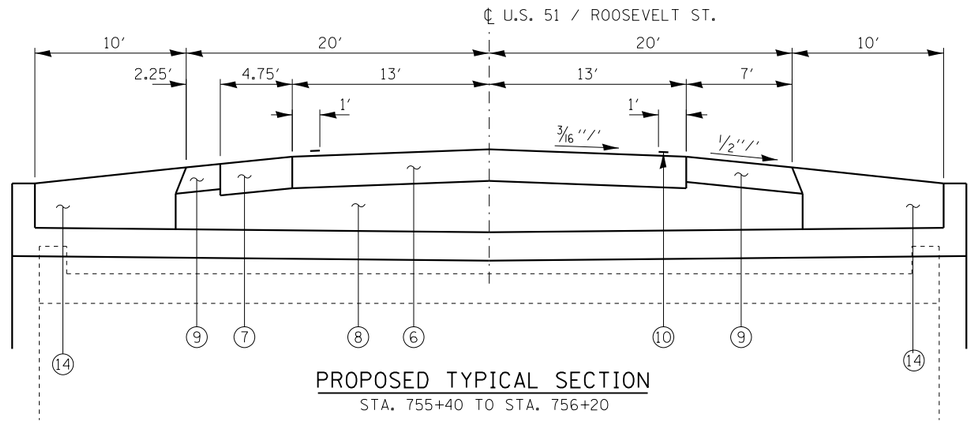
EXISTING TYPICAL SECTION

STA. 756+27 TO STA. 757+80



PROPOSED TYPICAL SECTION

STA. 753+80 TO STA. 755+40
STA. 756+20 TO STA. 757+80



PROPOSED TYPICAL SECTION

STA. 755+40 TO STA. 756+20

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

LEGEND

1. EXISTING PAVEMENT (4 1/2″ HMA, 10″ AGGR BASE)
2. EXISTING REINFORCED PCC PAVEMENT (10″)
3. EXISTING AGGREGATE SHOULDERS (6″)
4. EXISTING HMA SHOULDER
5. EXISTING PAVEMENT MARKING
6. PCC PAVEMENT (10″)
7. HMA BASE COURSE WIDENING (10″)
8. POROUS GRANULAR EMBANKMENT CA6 OR CA10 (12″)
9. HMA SHOULDERS (8″)
10. PROPOSED PAVEMENT MARKING
11. EXISTING PCC PAVEMENT (VARIES 7″ TO 9″)
12. EXISTING HMA SURFACE (1 1/2″)
13. SUBBASE GRANULAR MATERIAL , TYPE A 12″
14. EMBNK. OR COARSE AGG, SEE SHT. 18 OF 30

NOTE:
ALL CROSS SECTIONS LOOKING UP STATION

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:D0cuments\Offices\District 9\Projects\78204\Cadd\FrontData\HLR\7-17-2016 revised plans\CADD_Sheets\78204-sht-typical.dgn

HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

USER NAME = Document Services

PLOT SCALE = 2.0000 ′ / in.

PLOT DATE = 8/3/2016

DESIGNED - J.W.F.
DRAWN - T.W.K.
CHECKED - L.F.S.
DATE - 07/08/16

REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
US 51 / ROOSEVELT STREET

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

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	7

CONTRACT NO. 78204

ILLINOIS FED. AID PROJECT

ROADWAY SCHEDULE

LOCATION	SUBBASE GRANULAR MATERIAL TYPE A 12"	HOT-MIX ASPHALT BASE COURSE WIDENING 10"	BITUMINOUS MATERIALS (PRIME COAT)	PORTLAND CEMENT CONCRETE PAVEMENT 10"	PAVEMENT FABRIC	PROTECTIVE COAT	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	HOT-MIX ASPHALT SHOULDERS 8"
	31100910	35600716	40600275	42000500	44213100	42001300	44000100	44004250	48203029
	SQ YD	SQ YD	POUND	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD	SQ YD
FAP 322 / US 51									
STAGE I									
RT. STA. 753+80 TO RT. STA. 757+80	311	310	700					60	
LT. STA. 754+00 TO LT. STA. 757+50	143	185	461	116	116	116	116	48	20
STAGE II									
RT. STA. 755+40 TO RT. STA. 756+20			140	116	116	116	178		62
TOTAL	454	495	1301	232	232	232	294	108	82

EARTHWORK SUMMARY

LOCATION	EARTH EXCAVATION	SHRINKAGE FACTOR	% USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	20200100					
	CU YD			CU YD	CU YD	CU YD
FAP 322 / US 51						
STA. 753+80 TO STA. 755+45.62	123	25.00%	100.00%	92	1	91
STA. 756+14.36 TO STA. 757+80	87	25.00%	70.00%	46	10	36
TOTAL	210			138	11	127
					WASTE = 127	CU YD

20700220 POROUS GRANULAR EMBANKMENT

LOCATION	CU YD
FAP 322 / US 51	
STAGE I	
LT. STA.755+40 TO LT. STA. 756+20	110
STAGE II	
RT. STA.755+40 TO RT. STA. 756+20	110
TOTAL	220

28000400 PERIMETER EROSION BARRIER

LOCATION	FOOT
FAP 322 / US 51	
STAGE I	
LT. STA. 754+00 TO LT. STA. 757+50	240
STAGE II	
RT. STA. 753+70 TO RT. STA. 757+80	295
TOTAL	535

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	TEMPORARY EROSION CONTROL SEEDING *
	25000210	25000350	25000400	25000500	25000600	25000700	25100115	28000250
	ACRE	ACRE	LBS	LBS	LBS	TONS	ACRE	LBS
FAP 322 / US 51								
RT. STA. 753+80 TO RT. STA. 757+80	0.07	0.07	9.3	6.4	6.4	0.1	0.14	29
LT. STA. 754+00 TO LT. STA. 757+50	0.07	0.07	9.7	6.7	6.7	0.1	0.14	30
TOTAL	0.14	0.14	19.0	13.1	13.1	0.2	0.28	59
USE	0.25	0.25	19	13	13	0.2	0.50	59

* 100 LBS/ACRE FOR 4 APPLICATIONS

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

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 REMOVAL	PAVEMENT MARKING REMOVAL WATER BLASTING
			SOLID WHITE EDGE LINE	SKIP-DASH YELLOW CENTERLINE	SOLID YELLOW DIAGONAL	SOLID DOUBLE YELLOW NO PASSING	SOLID WHITE EDGE LINE	SKIP-DASH YELLOW CENTERLINE	SOLID YELLOW DIAGONAL	SOLID DOUBLE YELLOW MEDIAN			
	70300100	70300150	70300220				78001110				78100100	78300200	X0327980
	FOOT	SQ FT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	SQ FT
FAP 322 / US 51													
STAGE I													
RT. STA. 753+80 TO RT. STA. 757+80													132
CL. STA. 752+20.25 TO CL. STA. 753+86.25													14
CL. STA. 757+73.75 TO CL. STA. 759+33.75													13
LT. STA. 754+00 TO LT. STA. 757+50													89
CL. STA. 752+20.25 TO CL. STA. 759+33.75												19	
STAGE II													
RT. STA. 752+18.25 TO RT. STA. 759+35.75	32	11	718				718						237
LT. STA. 752+18.25 TO LT. STA. 759+35.75	32	11	718				718						237
CL. STA. 752+18.25 TO CL. STA. 756+30	44	15		103				103					34
CL. STA. 756+30 TO CL. STA. 758+00						340				340			112
RT. STA. 758+00 TO RT. STA. 759+35.75						272				272			90
LCL. STA. 758+00 TO LCL. STA. 759+35.75						272				272			90
CL. STA. 758+40 TO CL. STA. 759+20					15				15				5
CL. STA. 752+20.25 TO CL. STA. 759+33.75											19		
SUBTOTAL	108	37	1436	103	15	884	1436	103	15	884	19	19	1053
TOTAL	108	37	2438				2438				19	19	1053

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	TEMPORARY BRIDGE TRAFFIC SIGNALS	PINNING TEMPORARY CONCRETE BARRIER
	70400100	70400200	70600250	70600350	70106500	X7040125
	FOOT	FOOT	EACH	EACH	EACH	EACH
FAP 322 / US 51						
STAGE I						
LT. STA. 753+56.25 TO LT. STA. 758+03.75	387.5		2		1	33
STAGE II						
RT. STA. 753+81.25 TO RT. STA. 757+78.75		337.5		2		33
TOTAL	387.5	337.5	2	2	1	66

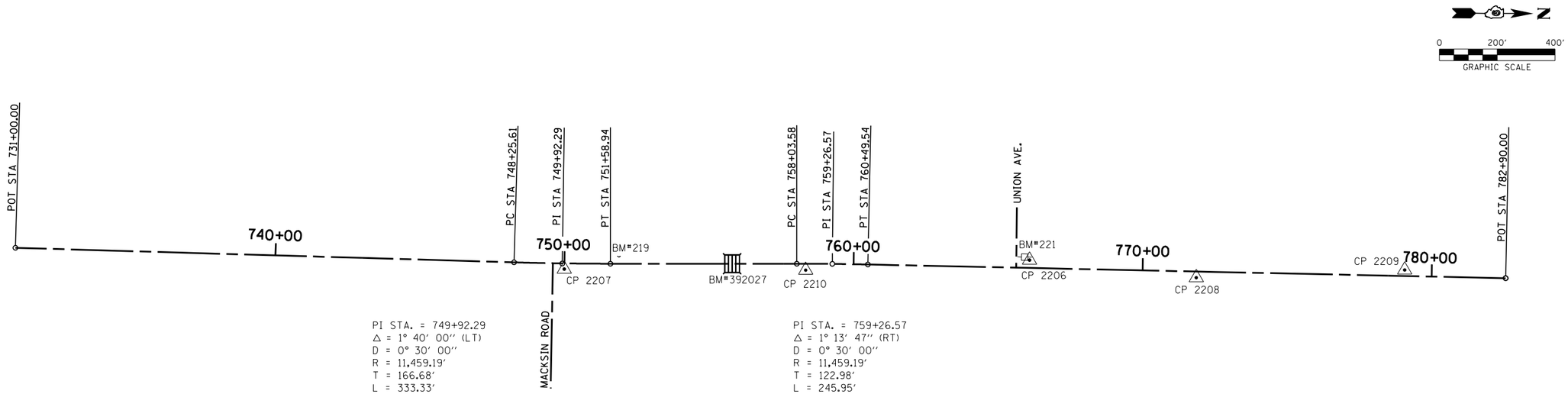
HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP: 184.000959

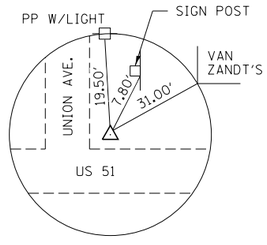
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
US 51 / ROOSEVELT STREET

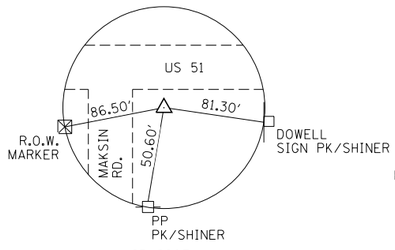
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	8
		CONTRACT NO. 78204		
	ILLINOIS FED. AID PROJECT			





CP 2206



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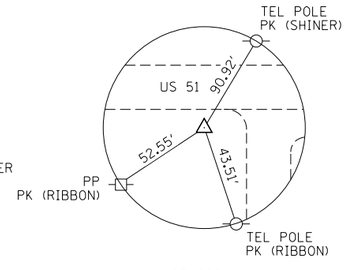
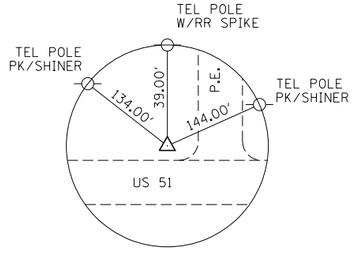
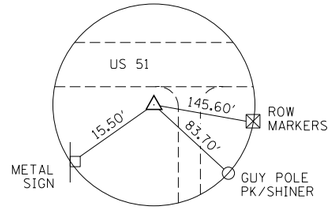


CP 2208



CP 2209



CP 2210

US 51 / ROOSEVELT STREET			
DESCRIPTION	STATION	NORTHING	EASTING
POT	731+00.00	461436.332014	724433.604860
PI	749+92.29	463328.055702	724479.837591
PI	759+26.57	464262.347236	724475.489169
POT	782+56.00	466591.458125	724514.643614

CONTROL POINTS				
DESCRIPTION	STATION	OFFSET	NORTHING	EASTING
CP#2206	766+08.25	27.11' LT	464944.398000	724459.838000
CP#2207	749+99.62	19.6' RT	463335.231500	724498.341900
CP#2208	771+86.06	21.2' RT	465521.312000	724517.864000
CP#2209	779+06.30	20.9' LT	466242.160000	724487.914000
CP#2210	758+34.40	22.2' RT	464170.228200	724498.115200

BENCHMARKS

BM#392027 CHISLED "□" ON N.E. COR OF E. HDWL
33' RT., STA. 755+91
ELEV. 390.71

BM#219 CUT "□" IN TOP OF HDWL
23' LT., STA. 751+89
ELEV. 391.35

BM#221 RR. SPIKE IN POWER POLE
36' LT., STA. 765+91
ELEV. 397.65

FILE NAME = 78204-sht-ATB.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - T.W.K.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = $SCALE$	CHECKED - L.F.S.	REVISED -
	PLOT DATE = 7/13/2016	DATE - 07/08/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS
US 51 / ROOSEVELT STREET

SCALE: 1:200 | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	9
		CONTRACT NO. 78204		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

WILLIAM DAUGHERTY
SE¼, SW¼, SEC 5, T. 7 S., R. 1 W., 3RD P.M.

SWP, LLC
SE¼, SW¼, SEC 5, T. 7 S., R. 1 W., 3RD P.M.

STATION 755+80
FOUR 12' SPAN X 5' RISE
REINFORCED CONCRETE BOX CULVERTS
LENGTH = 62'-0"; SKEW = 0°
PROP. SN 039-2030

N

0 20' 40'
GRAPHIC SCALE

GRASS

EXISTING R.O.W. LINE

755+23 F.E.

TIMBER

60' R.O.W.

℄ PROPOSED IMPROVEMENT

CONSTRUCTION LIMITS

4.75'

PC Sta 758+03.58

5' 13' 13' 5' 60' EXISTING

753 U.S. 51 / ROOSEVELT ST. 754 755+00 756 757 758

HMA SURFACE

8" 12" LANE 12" LANE 8"

7'

IMPROVEMENT BEGINS
STATION 755+40

IMPROVEMENT ENDS
STATION 756+20

CONSTRUCTION LIMITS

H.M.A.

15" CMP

GRAVEL

758+47 P.E.

6" FORCE MAIN

EXISTING R.O.W. LINE

GRASS

CROPLAND

DAVID L. DAVIS
SW¼, SE¼, SEC 5, T. 7 S., R. 1 W., 3RD P.M.

TERRY WRITE
SW¼, SE¼, SEC 5, T. 7 S., R. 1 W., 3RD P.M.

EXISTING STRUCTURE NO. 039-2027
STATION 755+82 - 4 REINFORCED CONCRETE BOX CULVERTS. TWO 10' SPAN X 4' RISE AND TWO 8' SPAN X 4' RISE WITH END SECTIONS.
LENGTH = 64'-0"

PLAN
SURVEYED
PLOTTED
CROSS CHECKED
BM: NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
CROSS CHECKED
BM: NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

415 410 405 400 395 390 385 380 375

VPI STA. 755+40
ELEV. 392.60

VPI STA. 756+20
ELEV. 392.60

PCC PAVEMENT 10"

PROPOSED ℄ GRADE

100 YEAR H.W. ELEV. 392.61
50 YEAR H.W. ELEV. 392.15

+0.00%

EXISTING ℄ GRADE

H:1V

H:1V

POROUS GRANULAR EMBANKMENT (CA7 OR CA11)
TOPPED WITH 12" (CA6 OR CA10)
& STRUCTURE EXCAVATION

℄ ELEV. 385.8

U.S. INVERT 385.3
D.S. INVERT 385.1

392.05 392.08 392.25 392.51 392.63 392.60 392.60 392.59 392.60 392.53 392.49 392.51 392.45 392.40 392.46

753+00 753+50 754+00 754+50 755+00 755+50 756+00 756+50 757+00 757+50 758+00 758+50 759+00

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:BIDDING Documents\78204\Roadway Data\HLR\7-17-2015 Plans\CADD_Sheets\78204-sht-plnprof.dgn

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 = 40.0000 ' / in.
PLOT DATE = 8/3/2016

DESIGNED - W.L.
DRAWN - T.W.K.
CHECKED - L.F.S.
DATE - 06/01/16

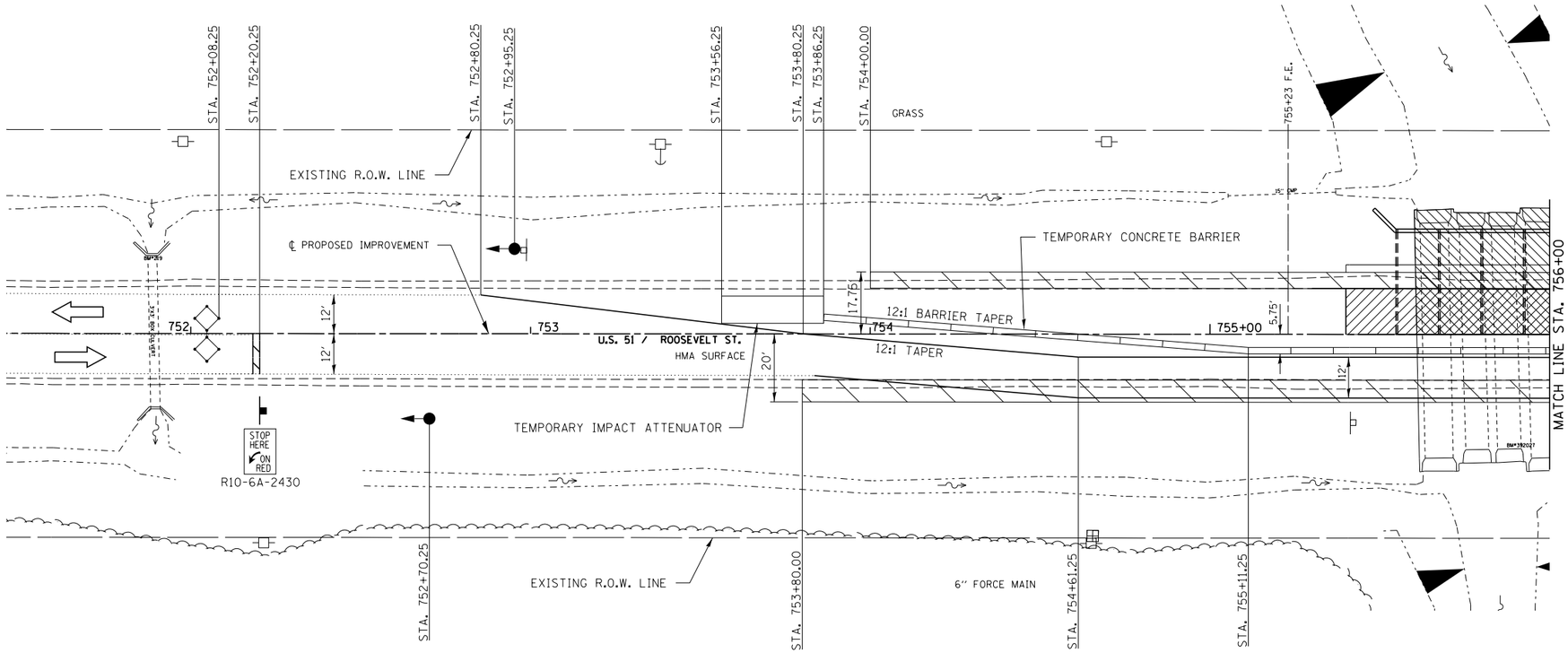
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
US 51 / ROOSEVELT STREET

SCALE: H:2 V:5 | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	10
		CONTRACT NO. 78204		
	ILLINOIS FED. AID PROJECT			



LEGEND

- EXISTING STRUCTURE REMOVAL
- EXISTING PAVEMENT REMOVAL
- BASE COURSE WIDENING
- DETECTOR LOOP

NOTES:

1. ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
2. THE ADDITIONAL DETECTOR LOOP AT THE ENTRANCE IS INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
3. TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE A 3-PHASE SIGNAL WITH ACTUATION PROVIDED FOR THE PRIVATE ENTRANCE AT STATION 758+67.

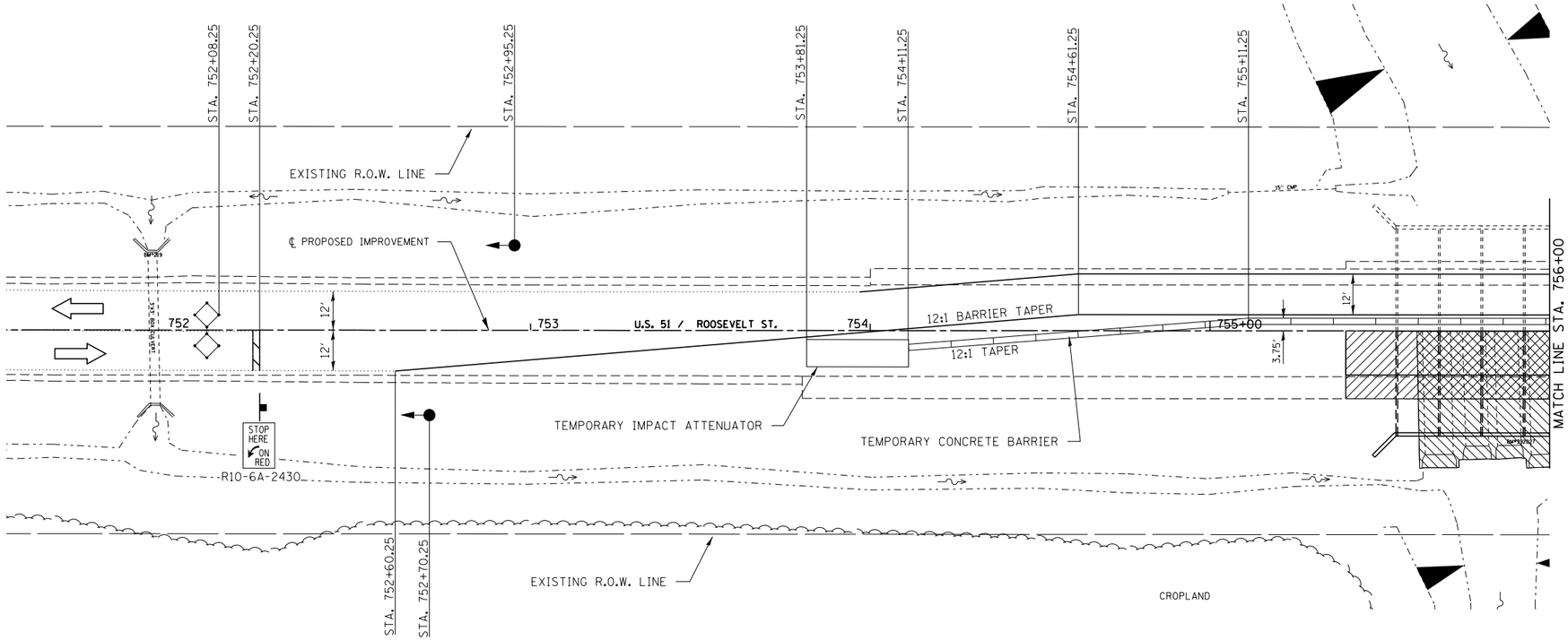
FILE NAME = 78204-sht-staging.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - L.F.S.	REVISED -
	PLOT DATE = 7/14/2016	DATE - 07/08/16	REVISED -

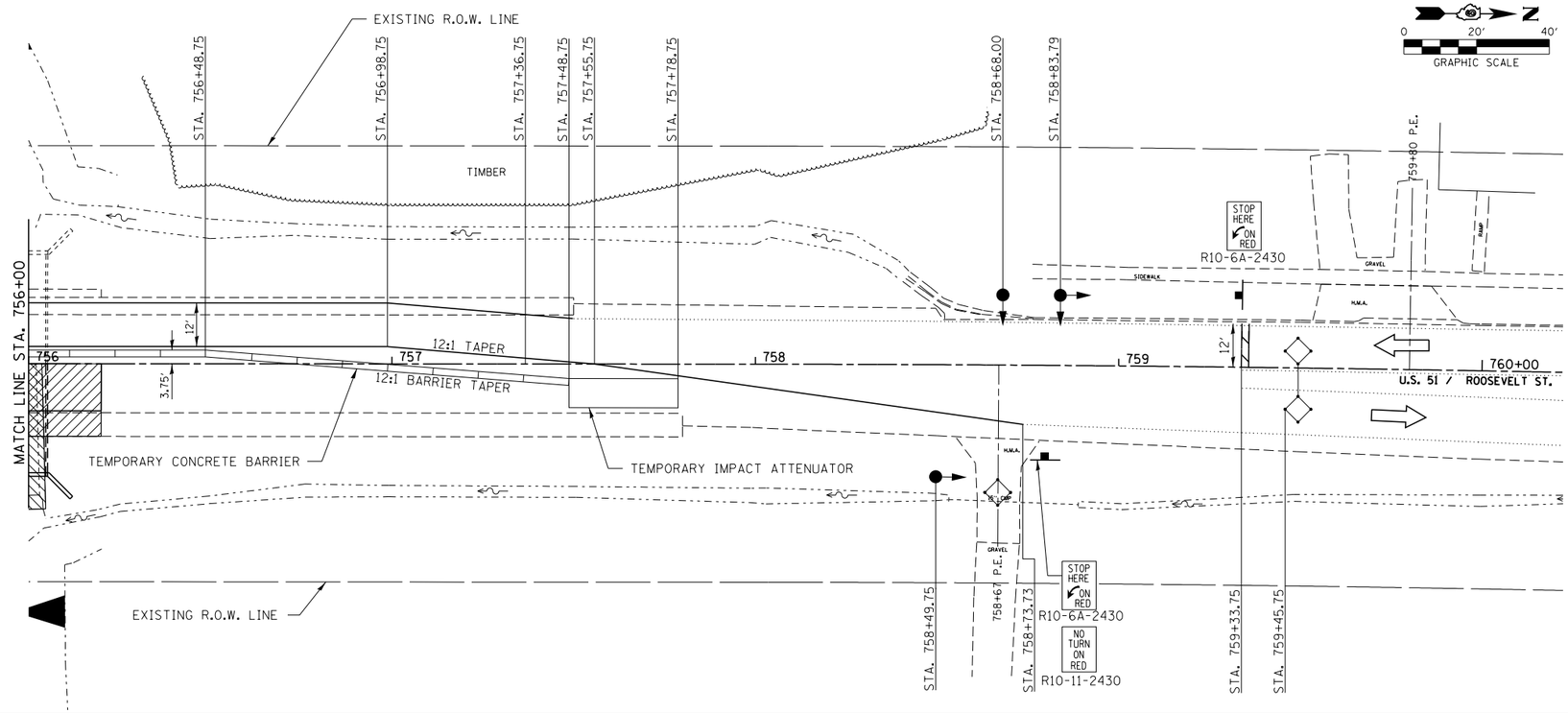
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 CONSTRUCTION
US 51 / ROOSEVELT STREET

SCALE: | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	11
		CONTRACT NO. 78204		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





0 20' 40'
GRAPHIC SCALE

LEGEND

- EXISTING STRUCTURE REMOVAL
- EXISTING PAVEMENT REMOVAL
- BASE COURSE WIDENING
- DETECTOR LOOP

NOTES:

1. ALL TRAFFIC SIGNALS SHOWN ARE INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
2. THE ADDITIONAL DETECTOR LOOP AT THE ENTRANCE IS INCLUDED IN TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH.
3. TEMPORARY BRIDGE TRAFFIC SIGNALS SHALL BE A 3-PHASE SIGNAL WITH ACTUATION PROVIDED FOR THE PRIVATE ENTRANCE AT STATION 758+67.

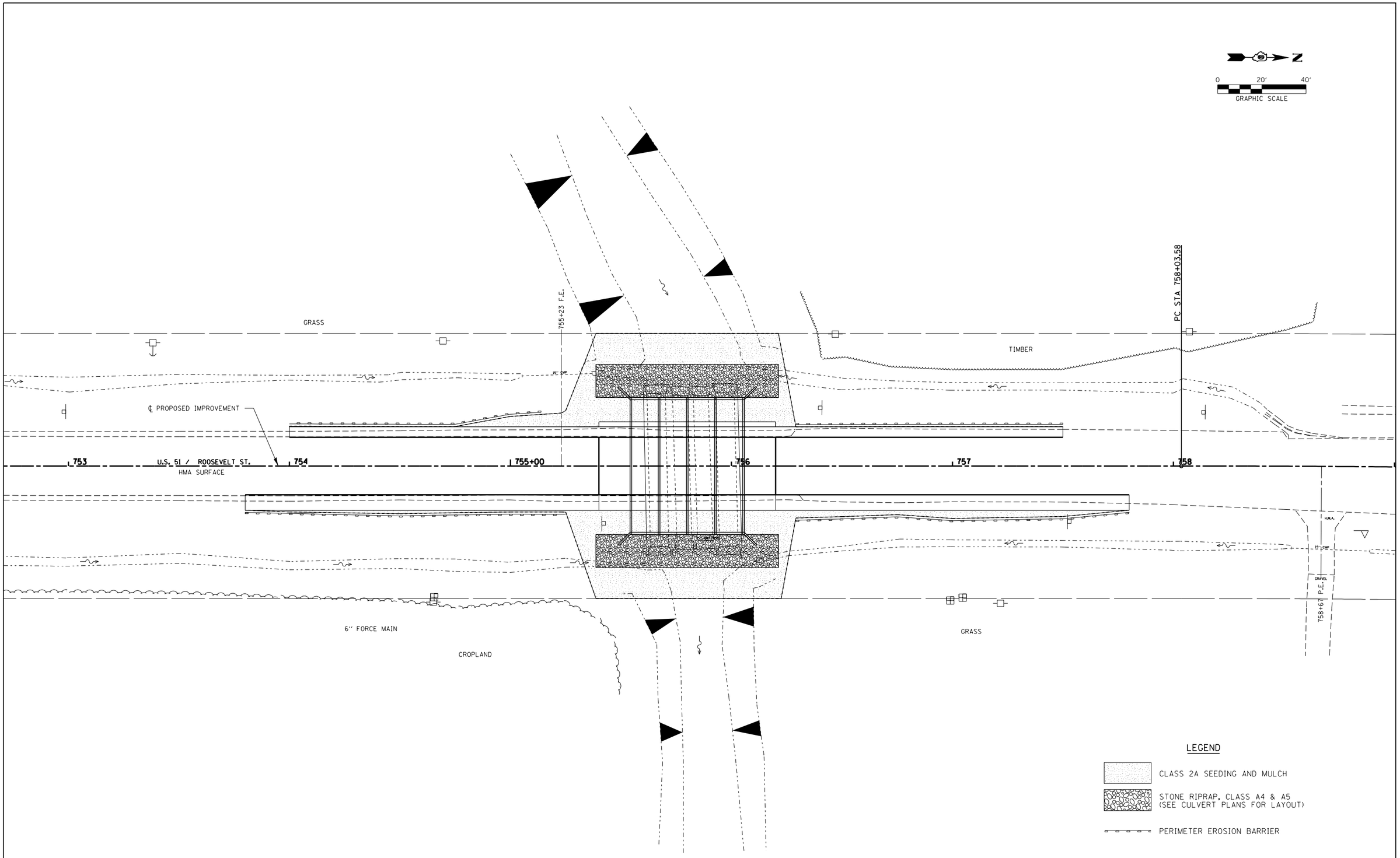
FILE NAME = 78204-sht-staging.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - L.F.S.	REVISED -
	PLOT DATE = 7/13/2016	DATE - 07/08/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 CONSTRUCTION
US 51 / ROOSEVELT STREET

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

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	12
		CONTRACT NO. 78204		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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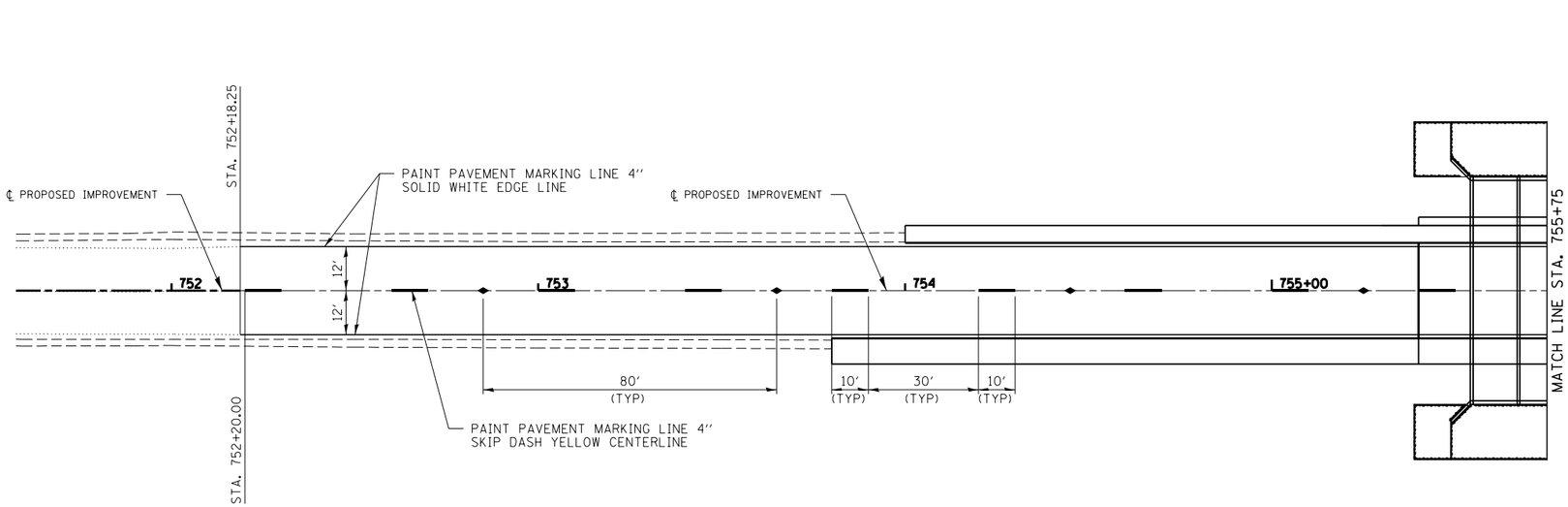
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 7/14/2016	DATE - 07/08/16	REVISED -

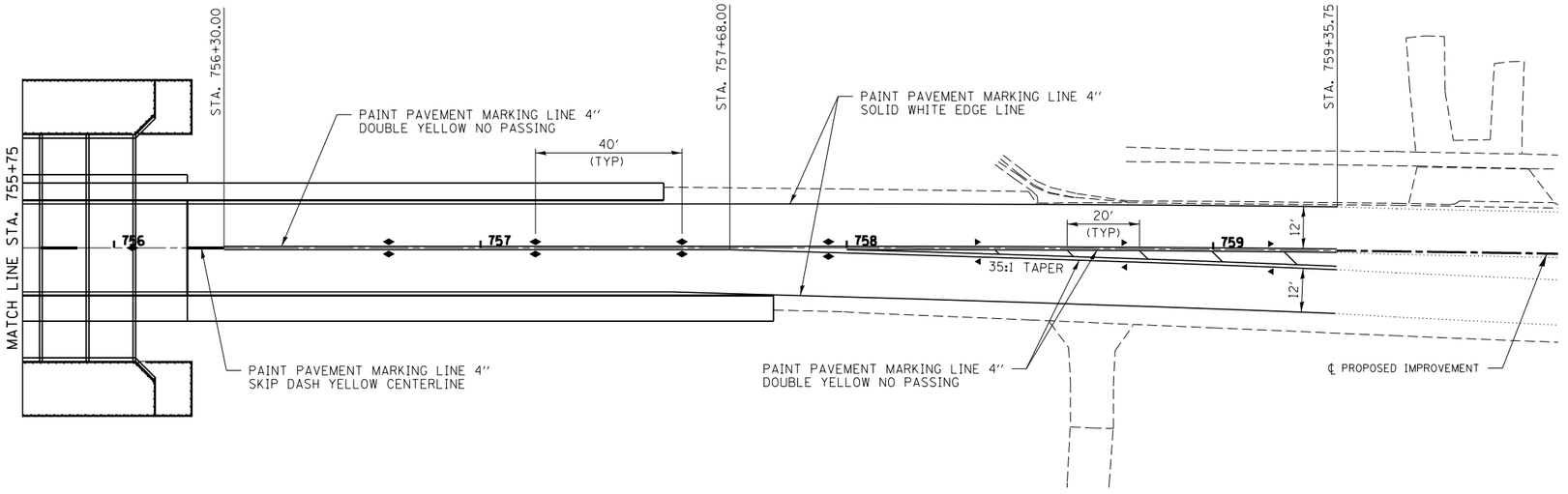
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
US 51 / ROOSEVELT STREET

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

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	13
		CONTRACT NO. 78204		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





N

0 20' 40'
GRAPHIC SCALE

RAISED REFLECTIVE PAVEMENT MARKERS

◆ TWO WAY AMBER MARKER
▸ ONE WAY AMBER MARKER

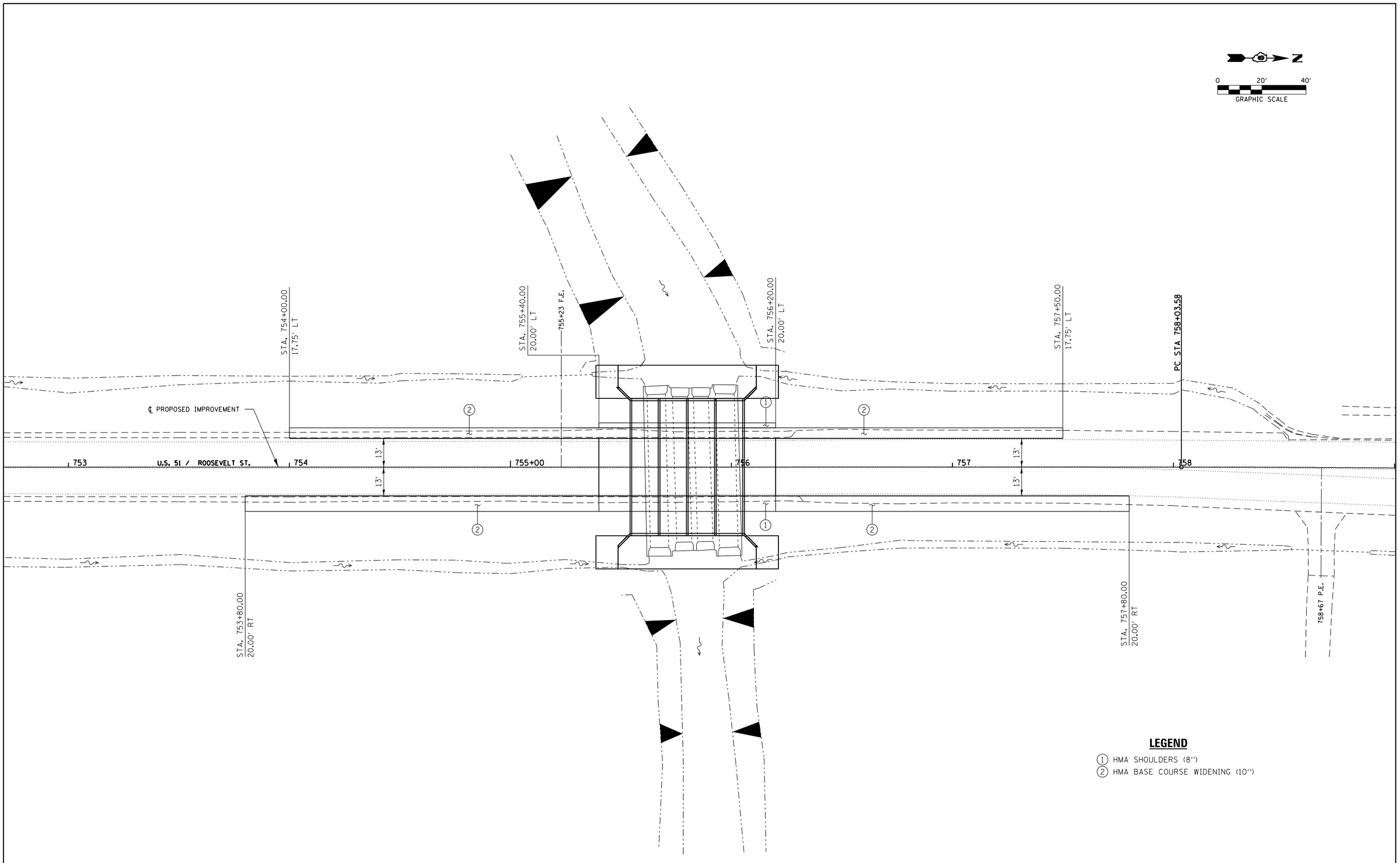
FILE NAME = 78204-sht-pmk.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3095 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP: 184.000959		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - L.F.S.	REVISED -
	PLOT DATE = 7/13/2016	DATE - 07/08/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
US 51 / ROOSEVELT STREET

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

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	14
		CONTRACT NO. 78204		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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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 = 40.0000 ' / in.
PLOT DATE = 8/3/2016

DESIGNED - W.L.F.
DRAWN - T.W.K.
CHECKED - L.F.S.
DATE - 07/08/16

REVISED -
REVISED -
REVISED -

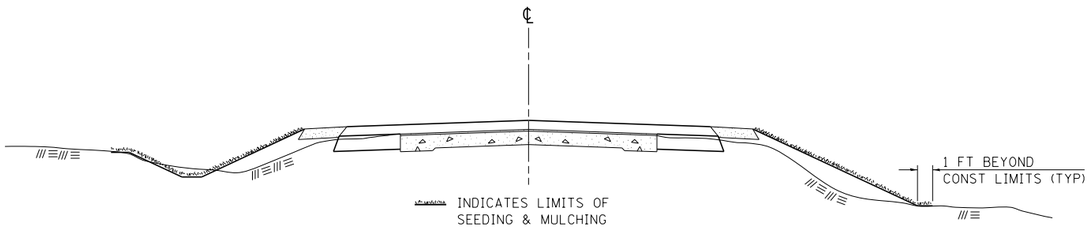
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVED SHOULDER PLAN
US 51 / ROOSEVELT STREET

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

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	15
		CONTRACT NO. 78204		
FED. ROAD DIST. NO.	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.

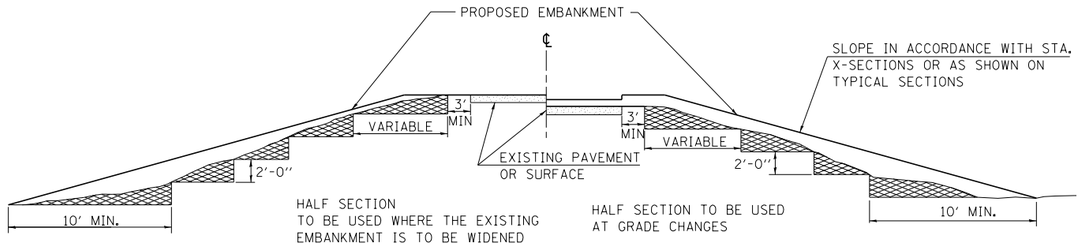
THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

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

FILE NAME = 78204-sht-details2.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 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.F.S.	REVISED -
	PLOT DATE = 7/13/2016	DATE - 07/08/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STANDARD DETAILS DISTRICT 9
US 51 / ROOSEVELT STREET

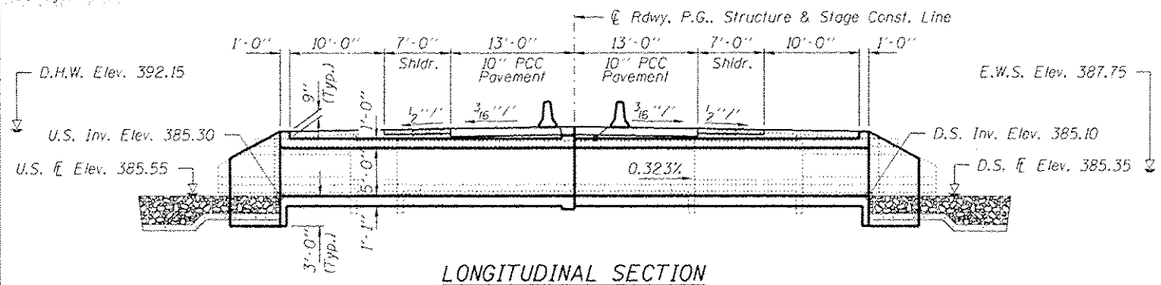
SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.B.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	16
		CONTRACT NO. 78204		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

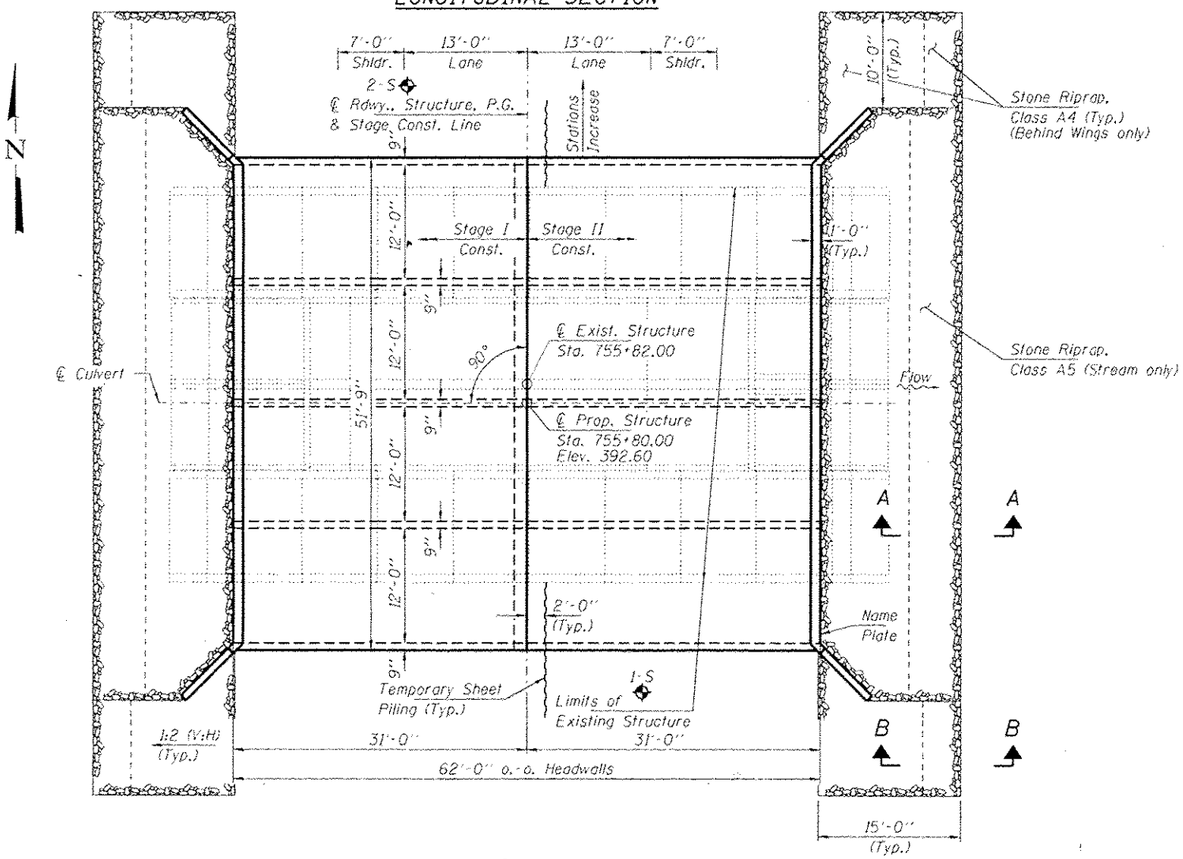
BENCHMARK: BM#392027 - Top of culvert 3.3' Rt., Sta. 755+91, Elev. 390.71.

EXISTING STRUCTURE: SN 039-2027 was originally built in 1922 as SBI-2, Section 4. The culvert was extended in 1954 and two additional culvert barrels were added in 1998. The structure is a four barrel culvert with 2-8'x4' CIP and 2-10'x4' PC boxes with a length of 68'-0" o.-o. headwall exterior barrels, 64'-0" interior barrels and 39'-10" fc.-fc. of outer sidewalls. Structure will be removed and replaced using stage construction to maintain one lane of traffic at all times.

Salvage: None



LONGITUDINAL SECTION



PLAN

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications 6th Edition with 2013 interims.

LOADING HL-93

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

DESIGN STRESSES

f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

WATERWAY INFORMATION

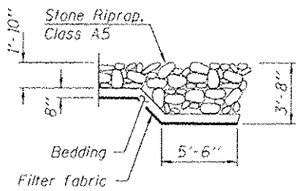
Drainage Area = 1.89 Sq. Mi. Proposed Low Grade Elev. 392.1 @ Sta. 753+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Natural H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Exist. Overtop	10	827	130	220	391.02	1.23	0.43	392.25	391.45
Prop. Overtop	25	1120	130	220	391.66	1.07	0.71	392.73	392.37
Design	50	1360	130	220	392.15	0.79	0.59	392.94	392.74
Base	100	1600	130	220	392.61	0.49	0.37	393.10	392.98
Max. Calc.	500	2230	130	220	393.68	0.00	0.00	393.68	393.68

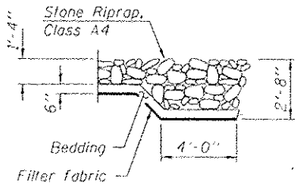
GENERAL NOTES

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.
Precast alternate not allowed.

INDEX OF STRUCTURE SHEETS



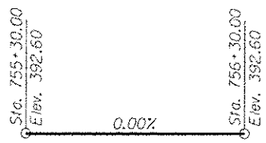
SECTION A-A



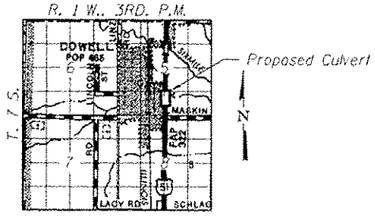
SECTION B-B

STA. 755+80.00
BUILT 201_ BY
STATE OF ILLINOIS
F.A.P. RTE 322 SEC. 4B-1
LOADING HL-93
STR. NO. 039-2030

NAME PLATE
See Std. 515001



PROFILE GRADE
(along ℄ roadway)



LOCATION SKETCH

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

Michael D. Cima 03/14/2016
ILLINOIS STRUCTURAL NO. 081 5984

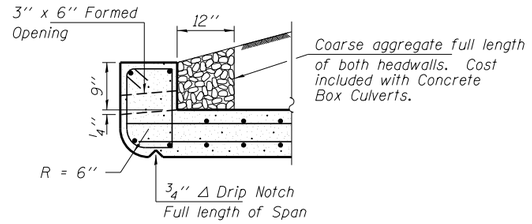
LICENSED STRUCTURAL ENGINEER - MICHAEL D. CIMA - 081-5984 - SPRINGFIELD, IL - STATE OF ILLINOIS

Expires 11-30-2016

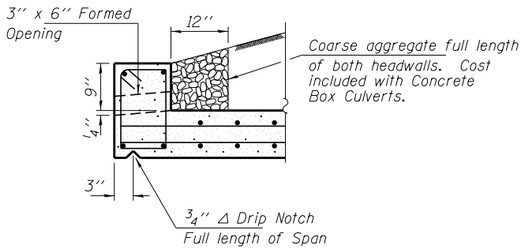
GENERAL PLAN AND ELEVATION
US ROUTE 51
OVER DRAINAGE DITCH
FAP ROUTE 322 - SECTION 4B-1
JACKSON COUNTY
STATION 755+80.00
STRUCTURE NUMBER 039-2030

FILE NAME = 78204-sht-culvert.dgn	USER NAME = $USER$	DESIGNED - A.C.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STRUCTURE NO. 039-2030
HAMPTON, LENZINI AND RENWICK, INC. 3245 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - D.W.T.	REVISED -		SHEET NO. 1 OF 8 SHEETS
ILLINOIS PROFESSIONAL DESIGN FIRM LS/PE/SE CORP. 184.000359	PLOT SCALE = $SCALE$	DRAWN - D.A.B.	REVISED -		
	PLOT DATE = 7/13/2016	CHECKED - M.D.C.	REVISED -		

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	17
		CONTRACT NO. 78204		
	ILLINOIS	FED. AID PROJECT		

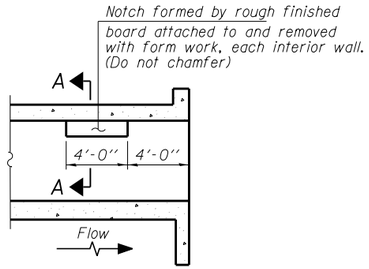


UPSTREAM END

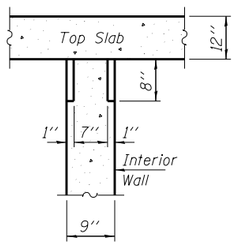


DOWNSTREAM END

HEADWALL DRAIN DETAILS



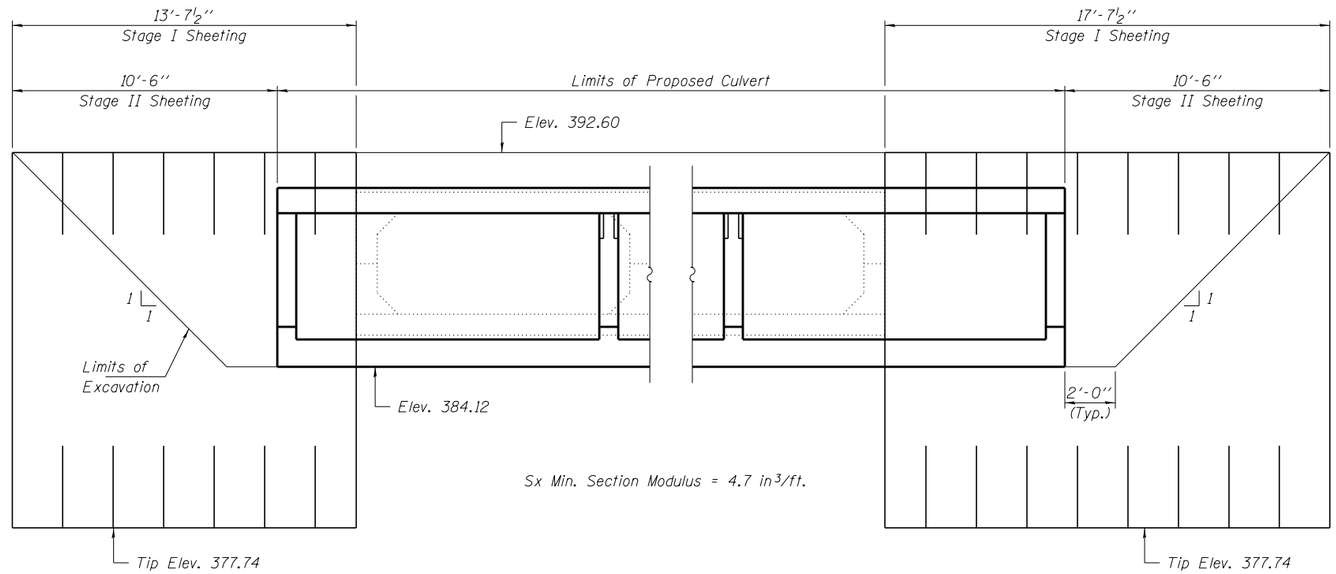
LONGITUDINAL SECTION



SECTION A-A

PHOEBE NESTING SITE DETAILS

(Downstream End Only)

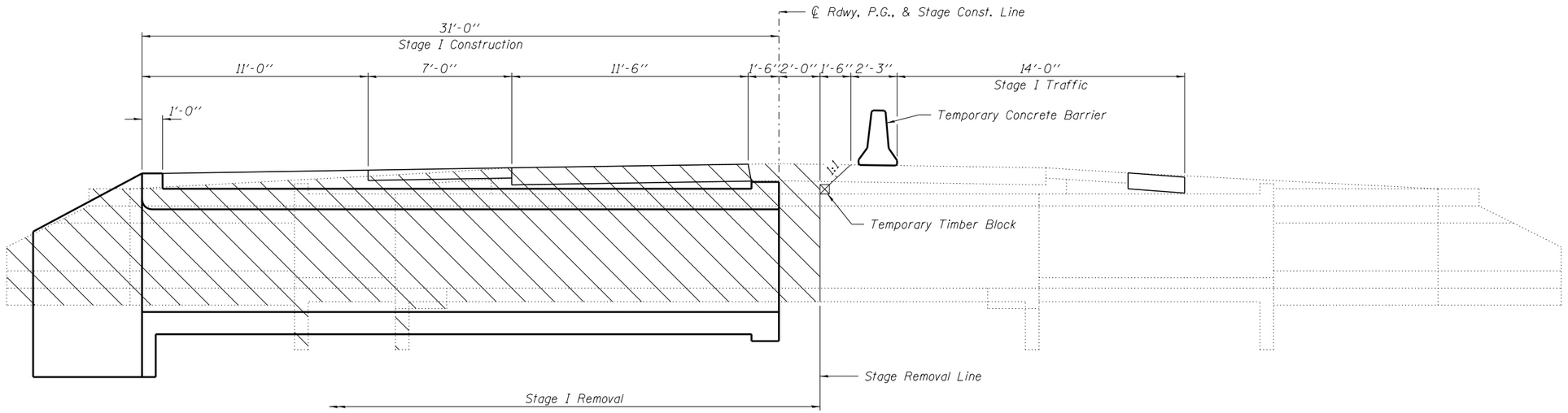


TEMPORARY SHEET PILING

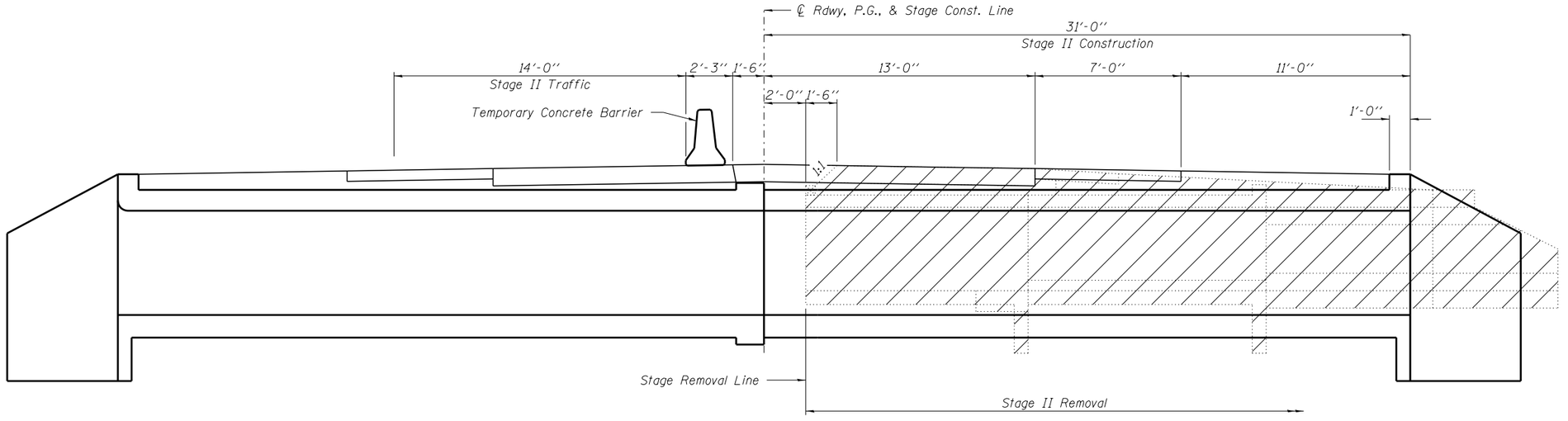
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A4	Sq. Yd.	83
Stone Riprap, Class A5	Sq. Yd.	203
Filter Fabric	Sq. Yd.	286
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	673
Reinforcement Bars, Epoxy Coated	Pound	68,560
Bar Splicers	Each	306
Temporary Sheet Piling	Sq. Ft.	465
Name Plates	Each	1
Concrete Box Culvert	Cu. Yd.	307.3



STAGE I



STAGE II

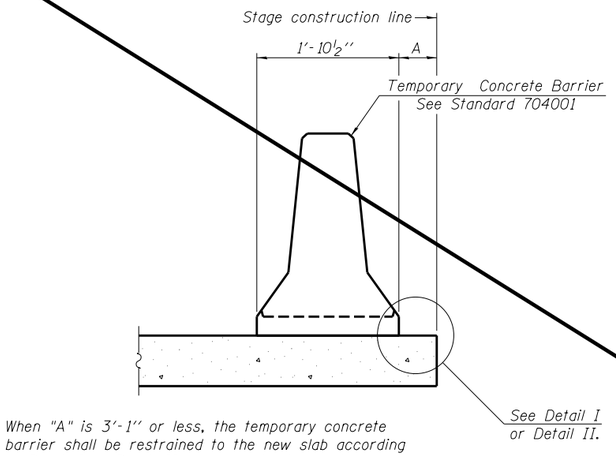
Notes:
All sections are looking North.
Hatched areas indicate removal.
See Roadway Plans for quantity of Temporary Concrete Barrier.
Cost of Temporary Timber Block included in Removal of Existing Structures.

FILE NAME = 78204-sht-culvert.dgn	USER NAME = $USER$	DESIGNED - A.C.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - D.W.T.	REVISED -
	PLOT SCALE = $SCALE$	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 7/13/2016	CHECKED - M.D.C.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

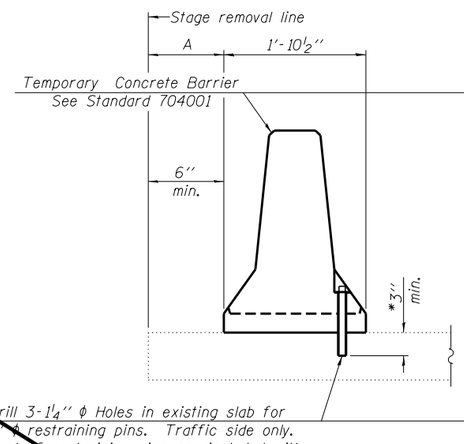
STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 039-2030
SHEET NO. 3 OF 8 SHEETS

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	19
		CONTRACT NO. 78204		
	ILLINOIS	FED. AID PROJECT		



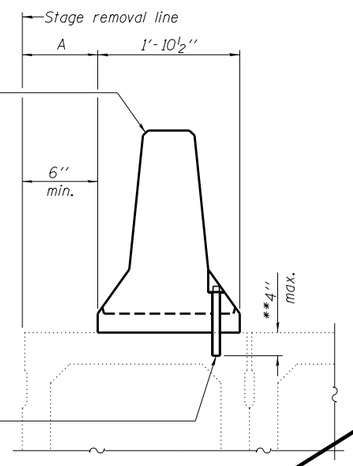
When "A" is 3'-1'' or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I or Detail II. No restraint is required when "A" is greater than 3'-1''.

NEW SLAB



Drill 3-1¼'' ϕ Holes in existing slab for 1'' ϕ restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when ''A'' is greater than 3'-1''.

EXISTING SLAB

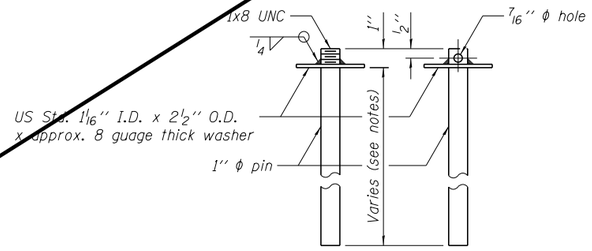


EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

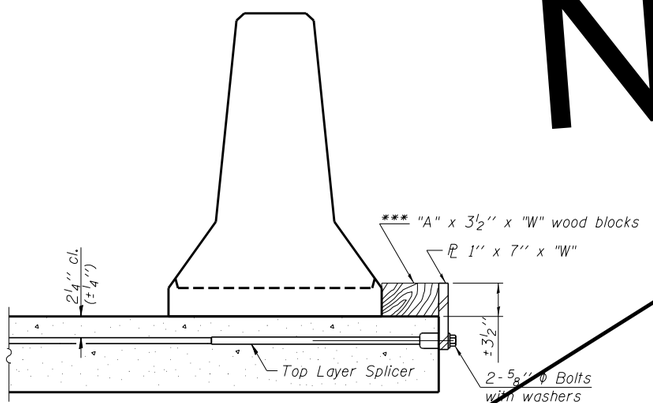
* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

** 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.

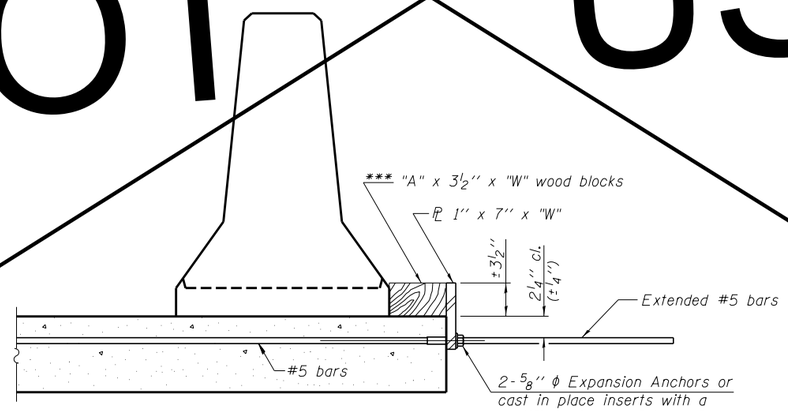


RESTRAINING PIN

NOT USED

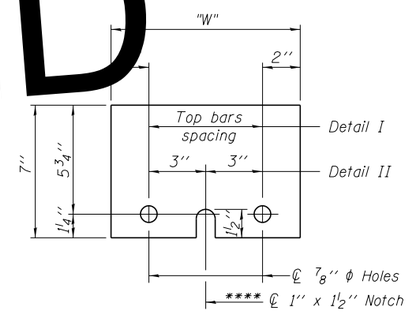


DETAIL I



DETAIL II

RETAINER ASSEMBLY



STEEL RETAINER ℄ 1'' x 7'' x ''W''

**** Required only with Detail II

*** 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.

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1'' x 7' 'x ''W'' steel ℄ to the top layer of couplers with 2-⅝'' ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1'' x 7'' x ''W'' steel ℄ to the concrete slab or concrete wearing surface with 2-⅝'' ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ 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

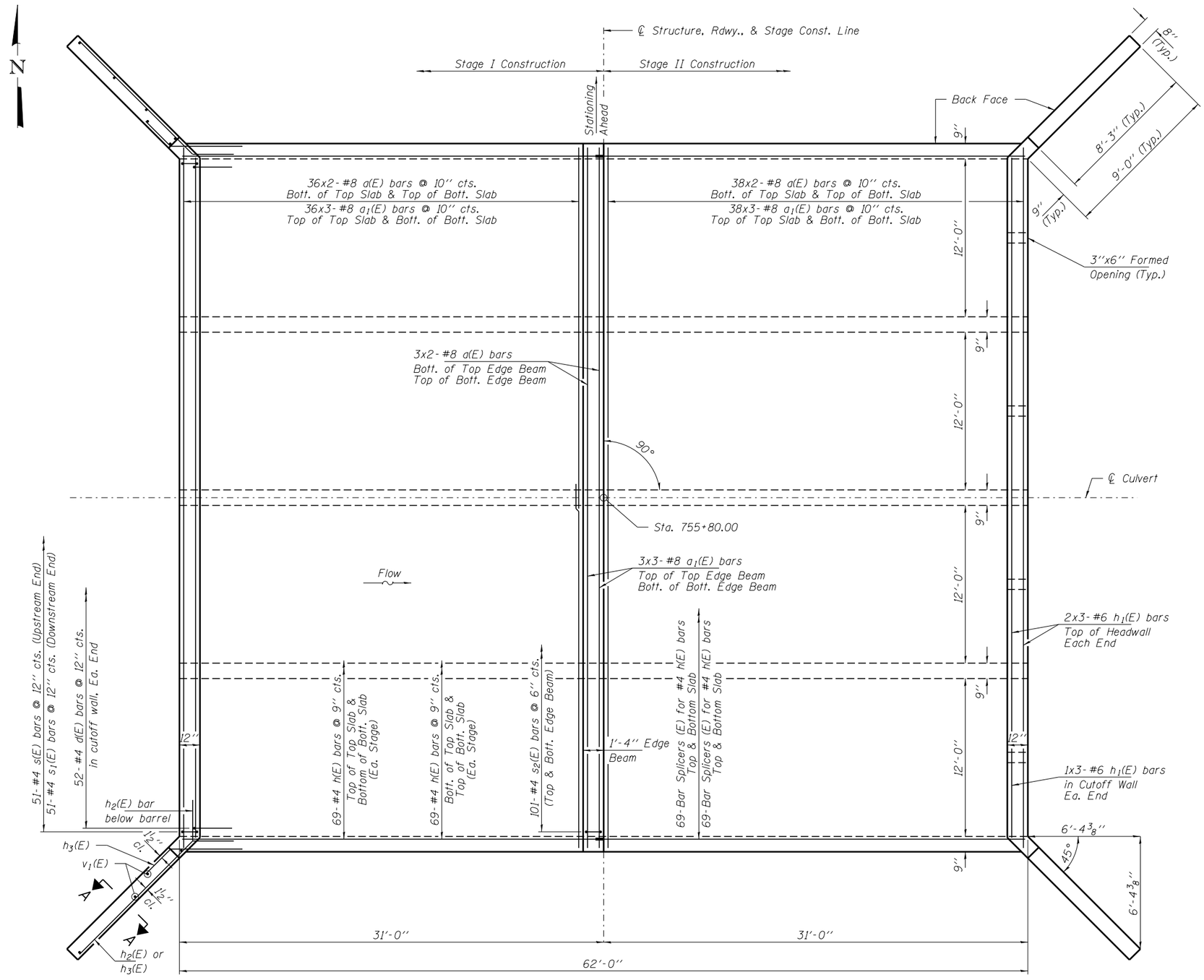
2-19-16

FILE NAME = 78204-sht-culvert.dgn	USER NAME = $USER$	DESIGNED - A.C.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - D.W.T.	REVISED -
	PLOT SCALE = $SCALE$	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 7/13/2016	CHECKED - M.D.C.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 039-2030
SHEET NO. 4 OF 8 SHEETS

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	20
		CONTRACT NO. 78204		
	ILLINOIS	FED. AID PROJECT		



PLAN

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 36x2-#8 etc. indicates 36 lines of bars with 2 lengths per line.
See sheet 6 of 8 for Culvert Details and SECTION A-A.

MIN. BAR LAP

#6 bars = 2'-11''
#8 bars = 6'-4''

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
d(E)	308	#8	29'-10''	
a_1(E)	462	#8	21'-5''	
d(E)	104	#4	4'-6''	
h(E)	612	#4	30'-8''	
h_1(E)	18	#6	18'-11''	
h_2(E)	28	#7	12'-1''	
h_3(E)	32	#7	8'-0''	
s(E)	51	#4	5'-1''	
s_1(E)	51	#4	5'-3''	
s_2(E)	202	#4	5'-1''	
v(E)	420	#4	6'-9''	
v_1(E)	16	#4	9'-5''	
Concrete Box Culverts			Cu. Yd.	307.3
Reinforcement Bars, Epoxy Coated			Pound	68,560
Bar Splicers			Each	306
Stone Riprap, Class A4			Sq. Yd.	83
Stone Riprap, Class A5			Sq. Yd.	203
Name Plates			Each	1

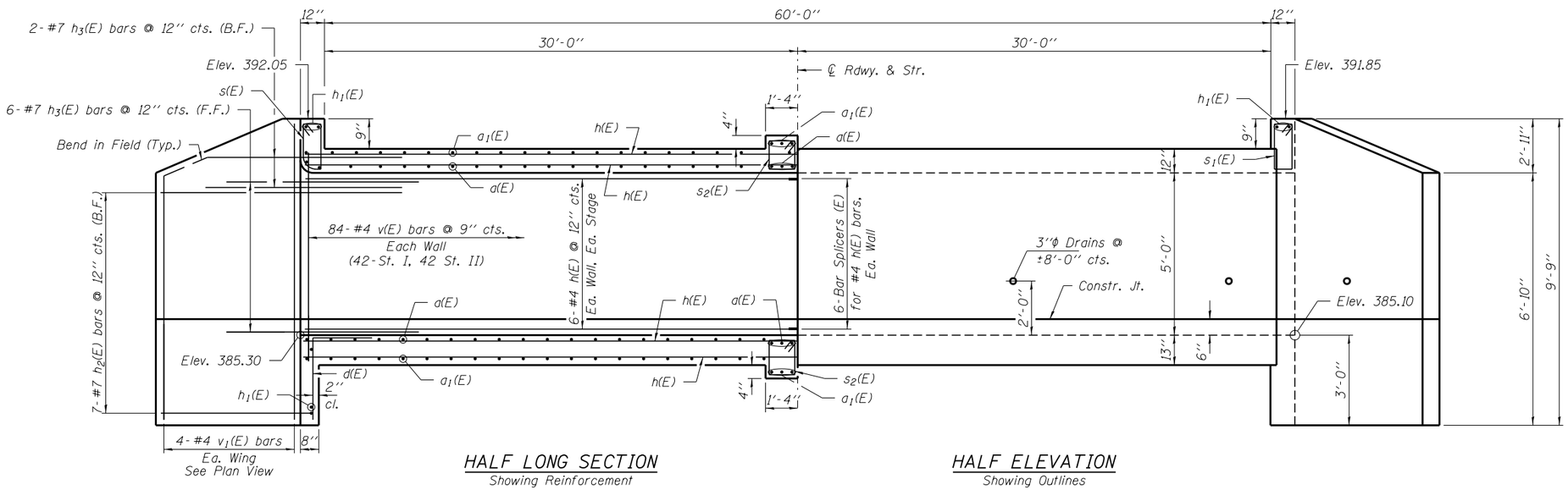
FILE NAME = 78204-sht-culvert.dgn	USER NAME = $USER$	DESIGNED - A.C.	REVISED -
		CHECKED - D.W.T.	REVISED -
	PLOT SCALE = $SCALE$	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 7/13/2016	CHECKED - M.D.C.	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3395 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

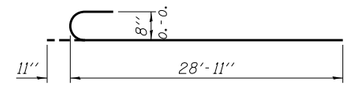
CULVERT PLAN
STRUCTURE NO. 039-2030
SHEET NO. 5 OF 8 SHEETS

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	21
		CONTRACT NO. 78204		
	ILLINOIS	FED. AID PROJECT		

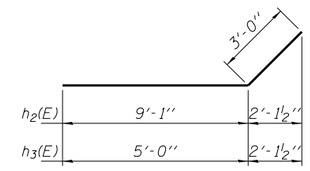


HALF LONG SECTION
Showing Reinforcement

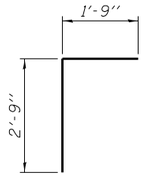
HALF ELEVATION
Showing Outlines



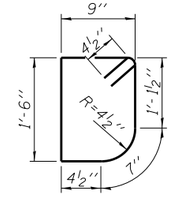
BAR a(E)



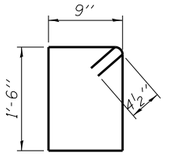
BARS h_2(E) & h_3(E)



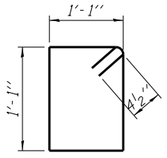
BAR d(E)



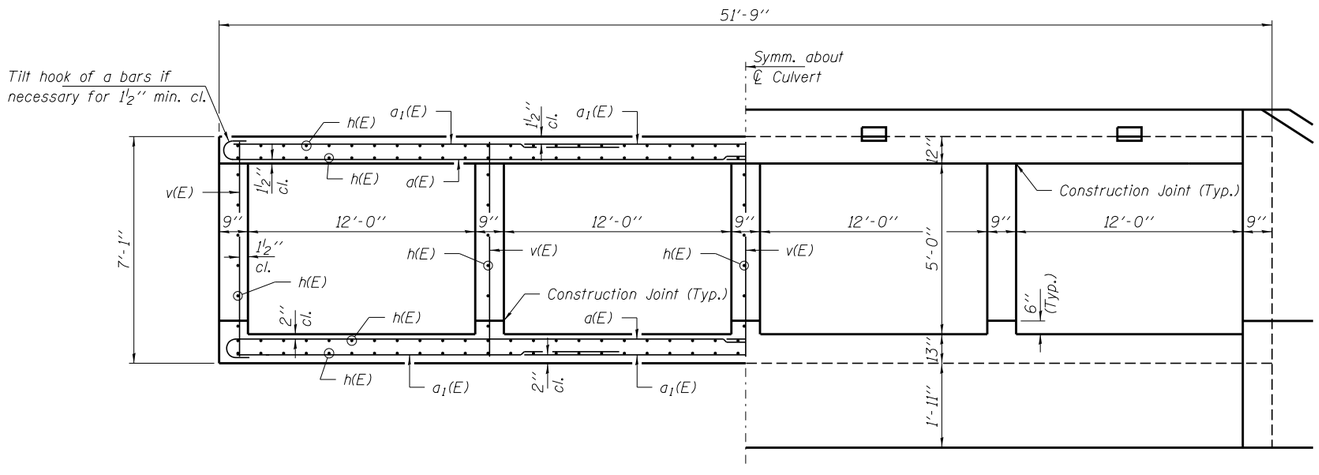
BAR s(E)



BAR s_1(E)

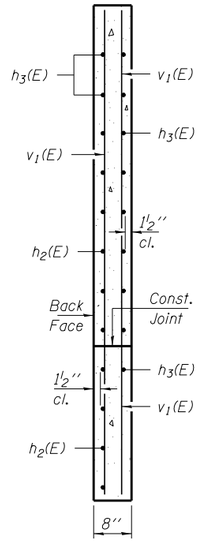


BAR s_2(E)



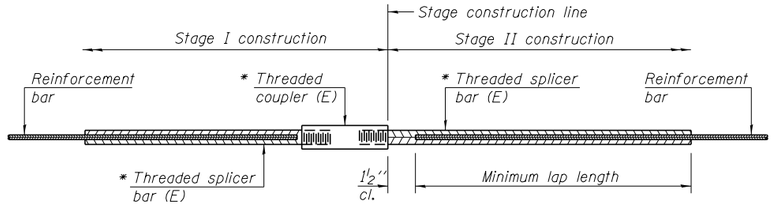
HALF SECTION THRU BARRELS
Showing Reinforcement

HALF END ELEVATION
Showing Dimensions



SECTION A-A

FILE NAME = 78204-sht-culvert.dgn	USER NAME = $USER$	DESIGNED - A.C.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAILS STRUCTURE NO. 039-2030	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 LS / PE / SE CORP. 184.000959		CHECKED - D.W.T.	REVISED -			322	4B-1	JACKSON	30	22
	PLOT SCALE = $SCALE$	DRAWN - D.A.B.	REVISED -						CONTRACT NO. 78204	
	PLOT DATE = 7/13/2016	CHECKED - M.D.C.	REVISED -		SHEET NO. 6 OF 8 SHEETS			ILLINOIS	FED. AID PROJECT	

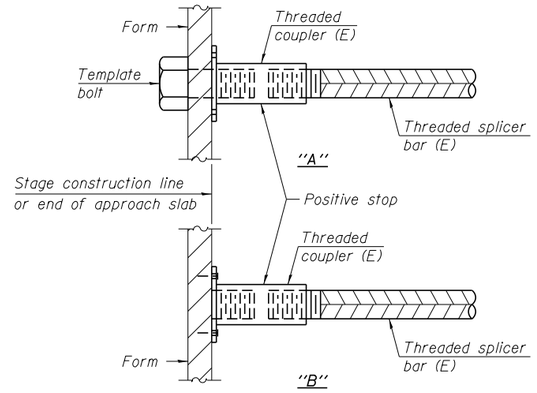


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1½" + thread length

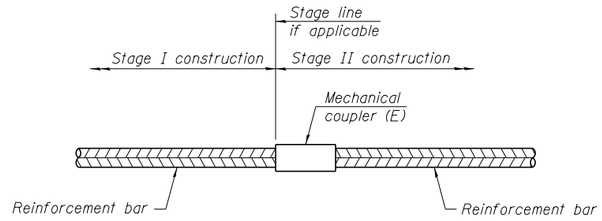
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top Slab	#4	138	2'-7"
Bottom Slab	#4	138	2'-7"
Sidewalls	#4	30	2'-7"



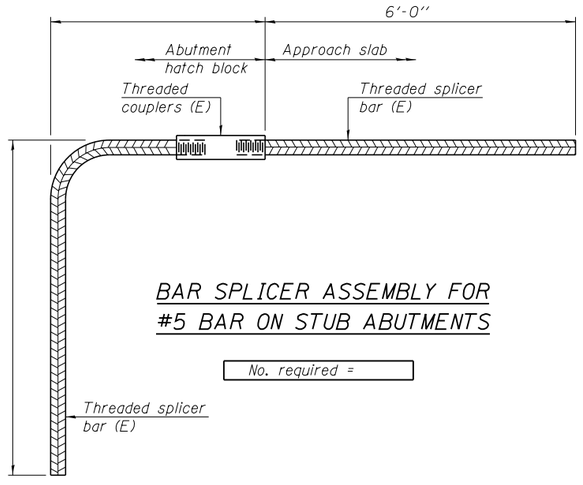
INSTALLATION AND SETTING METHODS

"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



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

FILE NAME = 78204-sht-culvert.dgn	USER NAME = $USER$	DESIGNED - A.C.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - D.W.T.	REVISED -
	PLOT SCALE = $SCALE$	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 7/13/2016	CHECKED - M.D.C.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 039-2030
SHEET NO. 7 OF 8 SHEETS

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	23
		CONTRACT NO. 78204		
	ILLINOIS	FED. AID PROJECT		

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation Boring Log

FAP 322 (US Route 51) Over drainage ditch — Sheet 1 of 2

Route: FAP 322 (US 51) **Structure Number:** 039-2027 **Date:** 3/15/2010

Section **Bored By:** R Moberly

County: Jackson **Location:** SCL Dowell **Checked By:** R Graeff

Boring No 1-S
Station 755+48
Offset 12' Rt CL
Ground Surface 392.4 Ft

Surf Wat Elev: 387.1
Ground Water Elevation
when Drilling 375.4
At Completion 380.1
At: **Hrs:**

DEPTH	BLOWS	Qu tsf	W%
Asphalt over crushed aggregate			
390.9			
Medium, very moist, brown and grey, Silty Clay Loam A-6	3		
	2	0.8B	24
	1		
387.9			
5.0	WH		
Very soft, very moist, brown, Silt Loam A-4	1	0.2B	26
	1		
385.4			
	2		
Stiff, moist, brown, Silt Loam A-4	7	1.8B	22
	7		
382.9			
10.0	1		
Stiff, moist, grey mottled brown, Clay A7-6	3	1.9B	21
	4		
	2		
	3	1.6B	19
	4		
377.9			
15.0	2		
Stiff, moist, brown, Silty Clay A7-6	3	1.3B	21
	4		
375.4			
	1		
Medium, very moist, brown, Silty Clay Loam A-6 with sand layers	2	0.8B	22
	3		
372.9			
20.0	1		
Soft, very moist, brown, Sandy Clay Loam A-4	2	0.4B	23
	2		
370.4			
	5		
Stiff, moist, grey, Clay to Clay Loam A-6	6	1.8B	13
	8		
25.0	3		

DEPTH	BLOWS	Qu tsf	W%
Stiff, moist, grey, Clay to Clay Loam A-6	5	1.9B	14
	7		
365.4			
Stiff, moist, grey, Clay A7-6	WH		
	2	1.1B	23
	3		
30.0	1		
	2	1.1B	21
	4		
360.4			
Stiff, moist, grey, Clay A7-6	1		
	3	1.3B	23
	4		
35.0	1		
	3	1.5B	27
	4		
	1		
	2	1.6B	24
	3		
352.9			
Stiff, moist, grey, Clay A7-6	40.0 1		
	3	1.6B	22
	4		
347.9			
Very stiff, moist, grey, Clay A7-6	45.0 2		
	6	2.9B	24
	7		
344.9			
Hard, damp, grey, Clay A7-6 to Weathered Clay Shale			
342.4	50.0 20		

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Sheet 2 of 2

Route: FAP 322 (US 51) **Date:** 3/15/2010

Section:

County: Jackson

Boring No: 1-S
Station: 755+48
Offset: 12' Rt CL
Ground Surface: 392.4 Ft

DEPTH	BLOWS	Qu tsf	W%
Hard, dry, grey, Clay Shale	100/6"		
338.9			
Hard, dry to damp, grey, Weathered Clay Shale to Clay A7-6	55.0 7		
	22		
	32		
332.9			
Hard, dry, grey, Clay Shale	60.0 24		
	100/9"		
327.4	65.0 100/2"		
Bottom of hole = 64.7 feet			
Free water observed at 17.0 feet			
Elevation referenced to BM @ East headwall: Elev.= 390.7			
To convert "N" values to "N60" multiply by 1.25	70.0		
	75.0		

DEPTH	BLOWS	Qu tsf	W%
	80.0		
	85.0		
	90.0		
	95.0		
	100.0		

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation Boring Log

FAP 322 (US Route 51) Over drainage ditch — Sheet 1 of 1

Route: FAP 322 (US 51) **Structure Number:** 039-2027 **Date:** 3/16/2010

Section **Bored By:** R Moberly

County: Jackson **Location:** SCL Dowell **Checked By:** R Graeff

Boring No 2-S
Station 756+16
Offset 14' Lt CL
Ground Surface 392.4 Ft

Surf Wat Elev: 387.1
Ground Water Elevation
when Drilling 380.4
At Completion
At: **Hrs:**

DEPTH	BLOWS	Qu tsf	W%
Asphalt over crushed aggregate			
390.9			
Very stiff, moist, grey and brown, Silty Clay A-6	2		
	4	2.3B	22
	4		
387.9			
5.0	1		
Very soft, very moist, grey, Silty Clay Loam A-4	1	0.2B	24
	1		
385.4			
Medium, very moist, grey, Silty Clay Loam A-4	WH		
	1	0.7B	25
	2		
382.9			
10.0	1		
Stiff, moist, grey mottled brown, Clay A7-6	2	1.3B	25
	3		
	1		
	3	1.3B	22
	4		
377.9			
15.0	1		
Stiff, moist, grey mottled brown, Clay to Clay Loam A-6	3	1.1B	19
	4		
375.4			
	1		
Medium, very moist, brown, Clay Loam A-6 with sand layers	1	0.8B	21
	2		
372.9			
20.0	3		
Stiff, moist, grey and brown, Clay Loam A-6	5	1.9B	17
	6		
370.4			
Stiff, moist, grey, Clay to Clay Loam A-6	2		
	4	1.6B	17
	5		
25.0	2		

DEPTH	BLOWS	Qu tsf	W%
Stiff, moist, grey, Clay to Clay Loam A-6	3	1.8B	18
	5		
365.4			
Stiff, moist, grey, Clay A7-6	1		
	2	1.4B	30
	3		
30.0	1		
	3	1.7B	25
	5		
	1		
	2	1.1B	28
	3		
35.0	1		
	2	1.2B	25
	3		
355.4			
Stiff, moist, brown, Silty Clay to Clay A7-6	2		
	3	1.6B	19
	5		
40.0	2		
	4	1.6B	25
	5		
**********			
To convert "N" values to "N60" multiply by 1.25			
**********			
347.4	45.0	14	
Hard, damp to dry, grey, Clay Shale	346.4	100/9"	
Bottom of hole = 45.8 feet			
Free water observed at 12.0 feet			
Elevation referenced to BM # East headwall: Elev.= 390.7			
	50.0		

N-Std Pentr Test: 2" OD Sampler,140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

BORING 1-S

BORING 2-S

FILE NAME = 78204-sht-culvert.dgn	USER NAME = $USER$	DESIGNED - A.C.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORINGS STRUCTURE NO. 039-2030	F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3345 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - D.W.T.	REVISED -			322	4B-1	JACKSON	30	24
	PLOT SCALE = $SCALE$	DRAWN - D.A.B.	REVISED -					CONTRACT NO. 78204		
	PLOT DATE = 7/13/2016	CHECKED - M.D.C.	REVISED -		SHEET NO. 8 OF 8 SHEETS		ILLINOIS	FED. AID PROJECT		

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

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

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

394 392 390 388

C = 19 F = 0 392.51

EXIST. R.O.W.

WATER

TEL FIBER OPTIC GAS

EXIST. R.O.W.

754 + 50.00

392 390 388

C = 20 F = 0 392.25

EXIST. R.O.W.

EARTHWORK BEGINS STA. 753+80 AHEAD C = 20 F = 0
BACK C = 0 F = 0

WATER

TEL FIBER OPTIC GAS

EXIST. R.O.W.

754 + 00.00

392 390 388

392.08

EXIST. R.O.W.

WATER

TEL FIBER OPTIC GAS

EXIST. R.O.W.

753 + 50.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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	PLOT DATE = 7/14/2016	DATE - 07/08/16	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORATION

CROSS SECTIONS
US 51 /ROOSEVELT STREET

SCALE: H:1"=5' V:1"=2 | SHEET NO. OF SHEETS | STA. 753+50.00 TO STA. 754+50.00

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	25
		CONTRACT NO. 78204		
	ILLINOIS FED. AID PROJECT			

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

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

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

394
392
390
388

EXIST. R.O.W.

FIELD ENTRANCE
2.32%

392.66

WATER

755 + 23.00

TEL
FIBER OPTIC
GAS

C = 21 F = 0

392.63

755 + 00.00

C = 20 F = 0

392.59

754 + 75.00

FILE NAME = 78204-sht-xssht.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -
		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 7/14/2016	DATE - 07/08/16	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

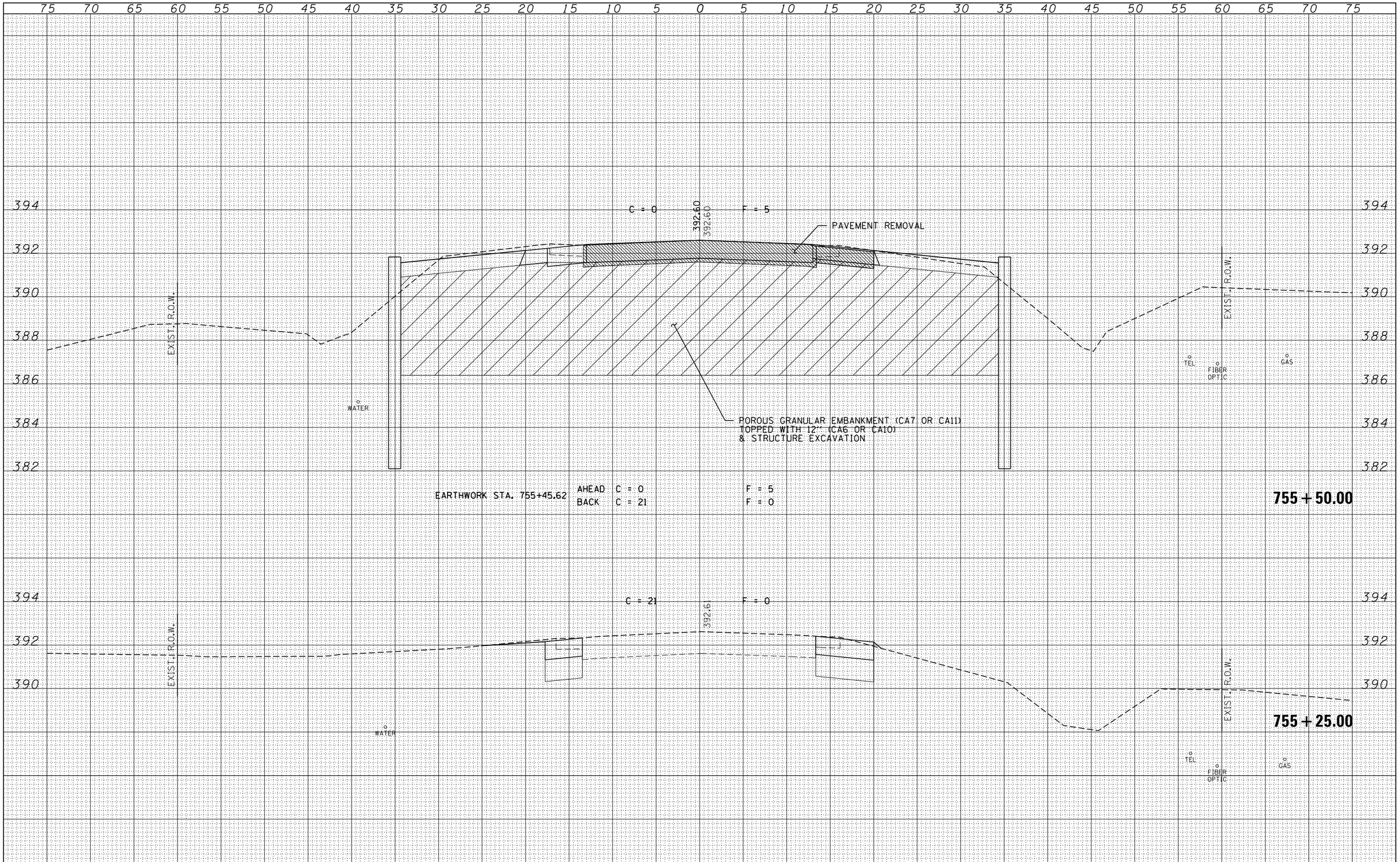
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORATION

CROSS SECTIONS
US 51 /ROOSEVELT STREET

SCALE: H:5 V:2 | SHEET NO. OF SHEETS | STA. 754+75.00 TO STA. 755+23.00

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	26
		CONTRACT NO. 78204		
		ILLINOIS FED. AID PROJECT		

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



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

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HAMPTON, LENZINI AND RENWICK, INC. 3085 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 - S.W.M.	REVISED -
	PLOT DATE = 7/14/2016	DATE - 07/08/16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORATION

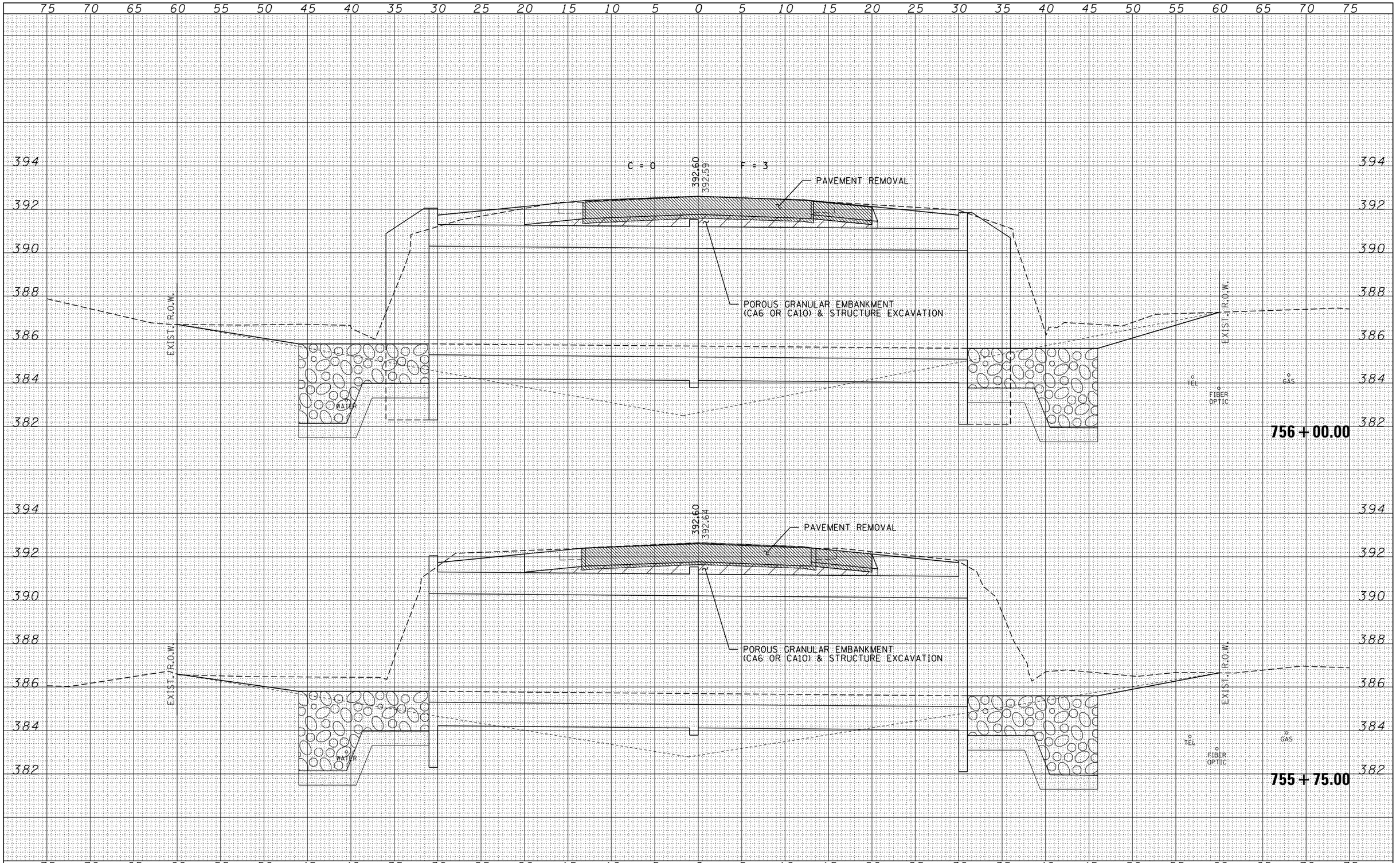
CROSS SECTIONS
US 51 /ROOSEVELT STREET

SCALE: H:5 V:2 | SHEET NO. OF SHEETS | STA. 755+25.00 TO STA. 755+50.00

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	27
		CONTRACT NO. 78204		
		ILLINOIS FED. AID PROJECT		

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

BY	DATE



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

BY	DATE

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		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 7/14/2016	DATE - 07/08/16	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORATION

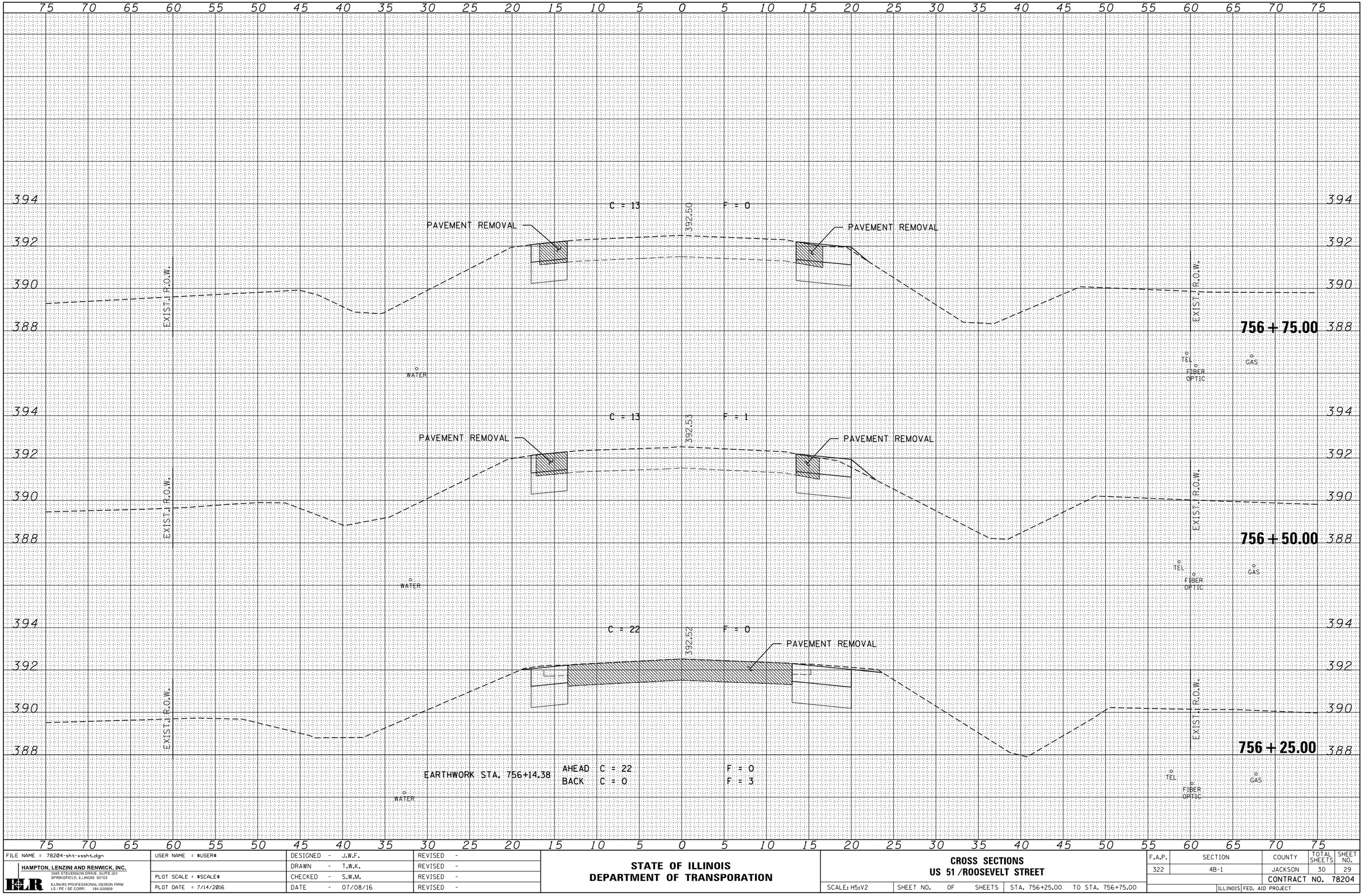
CROSS SECTIONS
US 51 /ROOSEVELT STREET

SCALE: H:5 V:2 | SHEET NO. OF SHEETS | STA. 755+75.00 TO STA. 756+00.00

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	28
		CONTRACT NO. 78204		
		ILLINOIS FED. AID PROJECT		

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

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



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	PLOT DATE = 7/14/2016	DATE - 07/08/16	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
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LS / PE / SE CORP. 184.000959

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORATION

CROSS SECTIONS
US 51 /ROOSEVELT STREET

SCALE: H:5; V:2 | SHEET NO. OF SHEETS | STA. 756+25.00 TO STA. 756+75.00

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	29
		CONTRACT NO. 78204		
		ILLINOIS FED. AID PROJECT		

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

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

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

394
392
390
388

EXIST. R.O.W.
WATER
392.45
L
T
758 + 00.00
EXIST. R.O.W.
TEL
FIBER OPTIC
GAS

EARTHWORK ENDS STA. 757+80
AHEAD C = 0 F = 0
BACK C = 13 F = 0
PAVEMENT REMOVAL
PAVEMENT REMOVAL
392.51
EXIST. R.O.W.
WATER
757 + 50.00
EXIST. R.O.W.
TEL
FIBER OPTIC
GAS

C = 13 F = 0
PAVEMENT REMOVAL
PAVEMENT REMOVAL
392.49
EXIST. R.O.W.
WATER
757 + 00.00
EXIST. R.O.W.
TEL
FIBER OPTIC
GAS

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

FILE NAME = 78204-sht-xssht.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -
		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 7/14/2016	DATE - 07/08/16	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORATION

CROSS SECTIONS
US 51 /ROOSEVELT STREET

SCALE: H:5 V:2 | SHEET NO. OF SHEETS | STA. 757+00.00 TO STA. 758+00.00

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	4B-1	JACKSON	30	30
		CONTRACT NO. 78204		
	ILLINOIS	FED. AID PROJECT		