

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	5B-3	WHITE	28	1
		ILLINOIS	CONTRACT NO. 78390	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEETS NO. 4-9

# PROPOSED HIGHWAY PLANS

FAP ROUTE 332 (IL 1) OVER UNNAMED CREEK  
SECTION 5B-3  
PROJECT NHPP-IIBY(899)  
WHITE COUNTY  
BOX CULVERT REPLACEMENT

## TRAFFIC DATA

SN 097-7047 (E)  
2015 ADT = 4,050  
WITH 14.2% TRUCKS  
SPEED LIMIT: 35 MPH

## TOWNSHIPS

PHILLIPS

DESIGN DESIGNATION : N/A

COORDINATE SYSTEM : ILLINOIS COORDINATE SYSTEM, EAST ZONE

POSTED SPEED : 35 MPH

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

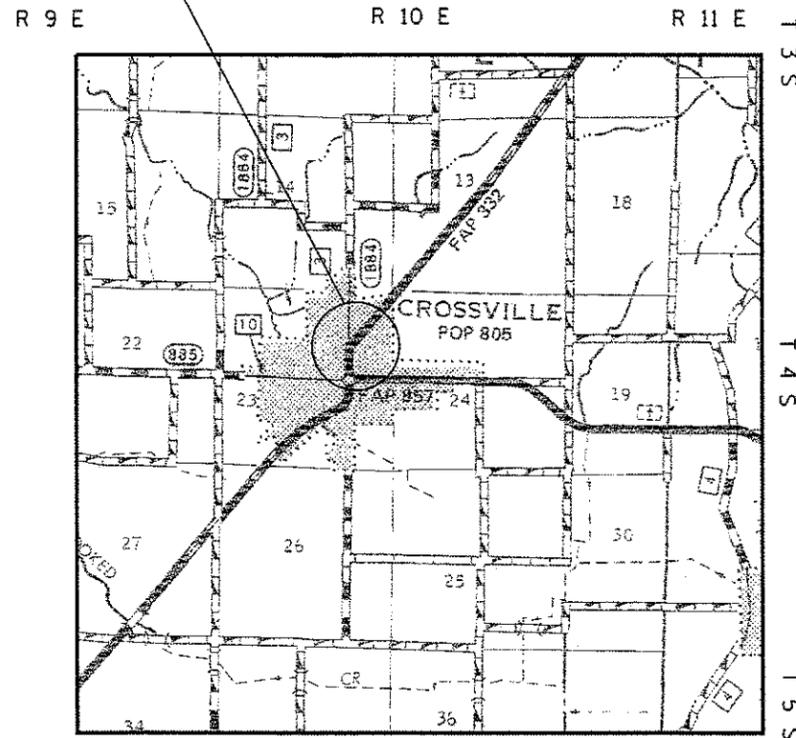
PROJECT DESIGNER: CHRIS LAMPORT 618-351-5313

PROJECT ENGINEER: DAVID PICHE 618-351-5227

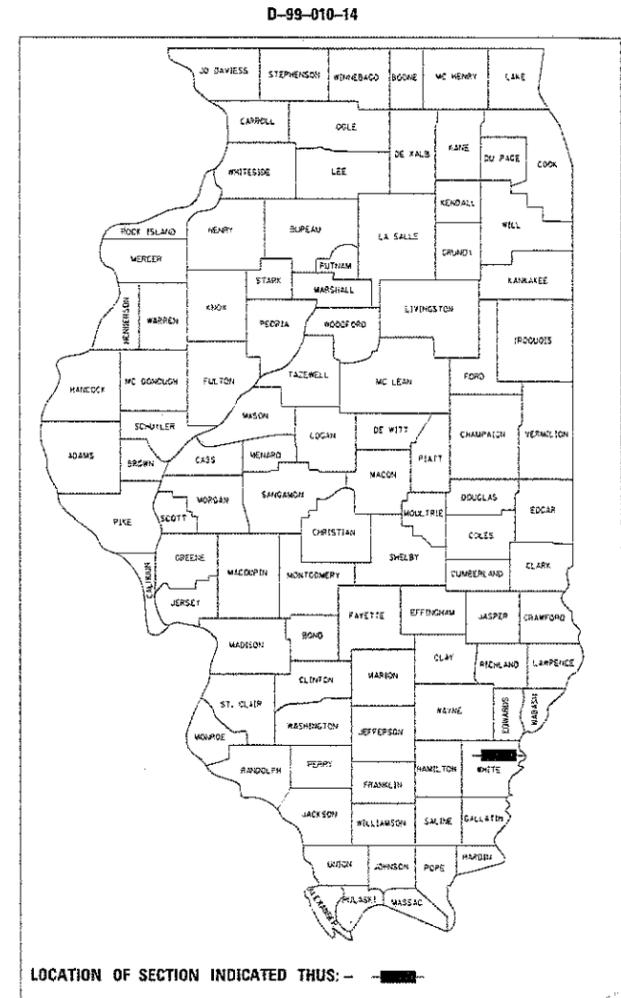
CONTRACT NO. 78390

C-99-011-14

IMPROVEMENT LOCATION  
EXISTING SN 097-7047  
PROPOSED SN 097-7095



GROSS LENGTH = 94.0 FT. = 0.02 MILES  
NET LENGTH = 94.0 FT. = 0.02 MILES



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 21 2018

Jeffrey A. Keiser  
REGION FIVE ENGINEER

May 11 2018  
E.A. ETC  
ENGINEER OF DESIGN AND ENVIRONMENT

May 11 2018  
Paul P. Chaf  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS



**COMMITMENTS**

- 1) ADJACENT PROPERTY OWNERS MUST BE PROVIDED ACCESS THROUGHOUT PROJECT, UNLESS OTHERWISE NOTED IN PLANS. A TEMPORARY EASEMENT HAS BEEN ACQUIRED TO SERVE THE LOT AT THE SOUTHEAST QUADRANT OF THE PROJECT, AS DETAILED ON THE RIGHT OF WAY PLAN. CONTRACTOR TO MAINTAIN EXISTING AGGREGATE ACCESS THROUGH THIS EASEMENT. CONSTRUCTION STAGING OR STORAGE IS NOT ALLOWED WITHIN EASEMENT.
- 2) CONTRACTOR SHALL NOTIFY THE FOLLOWING AT LEAST 14 DAYS IN ADVANCE OF STARTING ANY CONSTRUCTION WORK:
  - PROPERTY OWNERS WHOSE ACCESS WILL BE DIRECTLY AFFECTED DURING OPERATIONS
  - VILLAGE OF CROSSVILLE - (618) 966-2237
  - CROSSVILLE POLICE DEPT - (618) 966-2504
  - WHITE COUNTY SHERIFF DEPT - (618) 382-5321
  - CROSSVILLE FIRE DEPT - (618) 966-3731
  - WHITE COUNTY AMBULANCE DEPT - (618) 382-7131

**GENERAL NOTES**

- 1) FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:
 

ALL AGGREGATE	2.05 TONS/CU.YD.
RIPRAP	1.50 TONS/CU.YD.
EARTH	110 LBS/CU. FT.
- 2) FORMS FOR COMBINATION CONCRETE CURB AND GUTTER, IF NOT SLIPFORMED AS PER ARTICLE 606.05, SHALL BE OF METAL ONLY.
- 3) PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE OF CURB, AND MEDIAN SURFACE AS NEEDED ACCORDING TO THE SEASONAL REQUIREMENTS OF ARTICLE 420.18.
- 4) AGGREGATE FOR TEMPORARY ACCESS SHALL BE USED TO MAINTAIN EXISTING AGGREGATE ACCESS WITHIN TEMPORARY EASEMENT. THE GRADATION SHALL BE CA-6 OR CA-10 AS DIRECTED BY THE ENGINEER. A QUANTITY OF 50 TONS HAS BEEN ESTIMATED FOR THIS WORK.
- 5) TRENCH BACKFILL REQUIRED FOR STORM SEWER, SANITARY SEWER, OR WATER MAINS SHALL ONLY BE PLACED UP TO ONE FOOT BELOW THE FINAL GRADE IN AREAS HAVING A PROPOSED GRASS OR SOD SURFACE.
- 6) 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.
- 7) PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHALL CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.
- 8) CONNECTING OF NEW OR EXISTING STORM SEWER TO NEW OR EXISTING INLETS OR MANHOLES SHALL BE MADE IN A MANNER WHICH RESULTS IN A NEAT AND WATERTIGHT JOINT. WHEN PLACED THROUGH THE WALL OF AN INLET OR MANHOLE, STORM SEWER PIPE SHALL BE PLACED OR CUT FLUSH WITH THE FACE OF THE WALL AND DRESSED WITH MORTAR TO PROVIDE A SMOOTH ROUNDED OR BEVELED EDGE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES OF THE STORM SEWERS OR STRUCTURES INVOLVED.
- 9) THE CENTERLINE PAVEMENT MARKING SHALL BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FT LANE WIDTH CANNOT BE MAINTAINED.
- 10) 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 SET TO FLASH ALL RED.
- 11) THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT OF WAY WITHIN THE PROJECT LIMITS. DISPOSAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
- 12) TO RETAIN THE TEMPORARY CONCRETE BARRIER FOR STAGE II TRAFFIC, THE CONTRACTOR SHALL HAVE THE OPTION OF USING EITHER 2 (#5) BAR SPLICERS OR 2 CAST IN PLACE INSERTS AT 6" CENTERS AT THE MID-DEPTH OF THE PCC PAVEMENT. THE BAR SPLICERS OR INSERTS SHALL HAVE A MINIMUM PROOF LOAD OF 5,000 POUNDS. ALONG WITH THE ANCHORING DEVICES THE CONTRACTOR SHALL PROVIDE ONE STEEL RETAINER PLATE, AND 2 1/2" DIAMETER BOLT AND WASHERS EVERY 6 FEET AS SHOWN ON DETAIL II ON STANDARD R-27 FROM STA. 442+86 TO STA. 443+80 FOR STAGE II TRAFFIC. THIS WORK SHALL BE INCLUDED IN THE COST OF TEMPORARY CONCRETE BARRIER, NO ADDITIONAL COMPENSATION SHALL BE PROVIDED.
- 13) BACKFILL FOR TRENCHES, WALLS, AND CULVERT TO BE POROUS GRANULAR EMBANKMENT (CA7 OR CA11) WITH THE TOP 1'-0" CONSISTING OF CA6 (OR CA10) IF EDGE OF TRENCH IS WITHIN 2'-0" OF PROPOSED CONCRETE SURFACE. IF EDGE OF TRENCH IS BEYOND 2'-0" OF PROPOSED CONCRETE SURFACE, TOP 1'-0" SHALL BE IMPERVIOUS MATERIAL. OUTER 3'-0" OF TRENCH AT SEWER OUTFLOWS SHALL ALSO BE IMPERVIOUS MATERIAL.

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					SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____				

# SUMMARY OF QUANTITIES

COUNTY:	WHITE CO
ROUTE:	IL 1
FUNDING:	80% FEDERAL / 20% STATE
LOCATION:	RURAL
	ROADWAY
	0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	
20200100	EARTH EXCAVATION	CU YD	340
20700220	POROUS GRANULAR EMBANKMENT	CU YD	371
25000200	SEEDING, CLASS 2	ACRE	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.5
25100115	MULCH, METHOD 2	ACRE	0.25
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	25
28100109	STONE RIPRAP, CLASS A5	SO YD	250
28200200	FILTER FABRIC	SO YD	250
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	50

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PLOT DATE = 3/22/2018	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
SN 097-7047 (E) SN 097-7095 (P)**

SCALE: \_\_\_\_\_ SHEET 1 OF 6 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	5B-3	WHITE	28	4
CONTRACT NO. 78390				
ILLINOIS FED. AID PROJECT				

# SUMMARY OF QUANTITIES - CONT

COUNTY:	WHITE CO
ROUTE:	IL 1
FUNDING:	80% FEDERAL / 20% STATE
LOCATION:	RURAL
	ROADWAY
	0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
4200060	WELDED WIRE REINFORCEMENT	SQ YD	262
4200050	PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	262
42001300	PROTECTIVE COAT	SQ YD	262
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	554
44000100	PAVEMENT REMOVAL	SQ YD	265
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	189
44000600	SIDEWALK REMOVAL	SQ FT	462
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	82
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	38,640
50800515	BAR SPLICERS	EACH	110
50901125	STEEL RAILING (TEMPORARY)	FOOT	94

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES</b>	
<b>SN 097-7047 (E) SN 097-7095 (P)</b>	
SCALE: _____	SHEET 2 OF 6 SHEETS STA. _____ TO STA. _____

F.A.P. RTE. 332	SECTION 5B-3	COUNTY WHITE	TOTAL SHEETS 28	SHEET NO. 5
CONTRACT NO. 78390				
ILLINOIS FED. AID PROJECT				





# SUMMARY OF QUANTITIES - CONT

COUNTY:	WHITE CO
ROUTE:	IL 1
FUNDING:	80% FEDERAL / 20% STATE
LOCATION:	RURAL
	ROADWAY
	0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	262.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	477
* 78100300	REPLACEMENT REFLECTOR	EACH	6
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	6
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
X0322128	MEMBRANE WATERPROOFING FOR BURIED STRUCTURES	SQ YD	143
X0327979	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	212
X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	28
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	159

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\* SPECIALTY ITEM

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES  
SN 097-7047 (E) SN 097-7095 (P)**

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	5B-3	WHITE	28	8
			CONTRACT NO. 78390	
ILLINOIS FED. AID PROJECT				

# SUMMARY OF QUANTITIES - CONT

COUNTY:	WHITE CO
ROUTE:	IL 1
FUNDING:	80% FEDERAL / 20% STATE
LOCATION:	RURAL
	ROADWAY
	0004

CODE NUMBER	ITEM DESCRIPTION	UNIT	
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	6
Z0054517	ROCK FILL - FOUNDATION	TON	123
Z0073500	TEMPORARY SUPPORT SYSTEM	L SUM	1

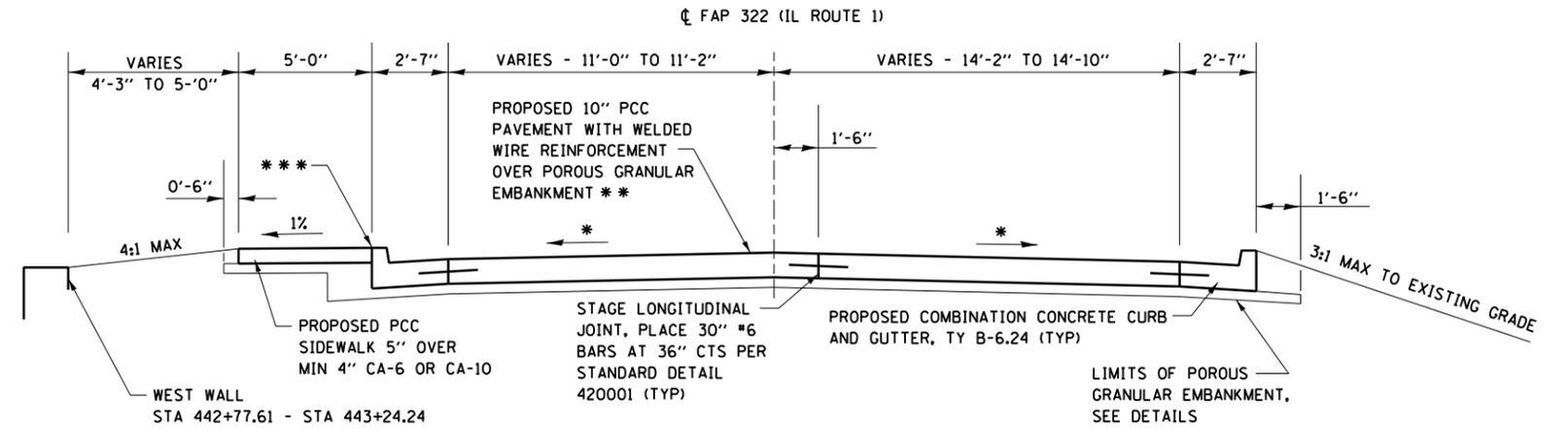
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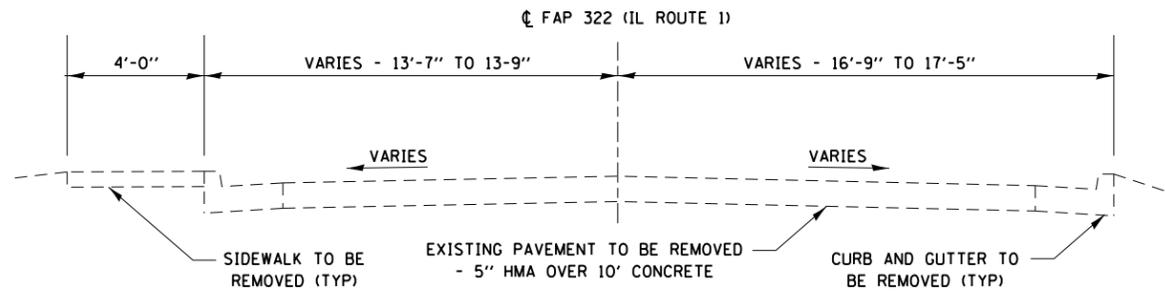
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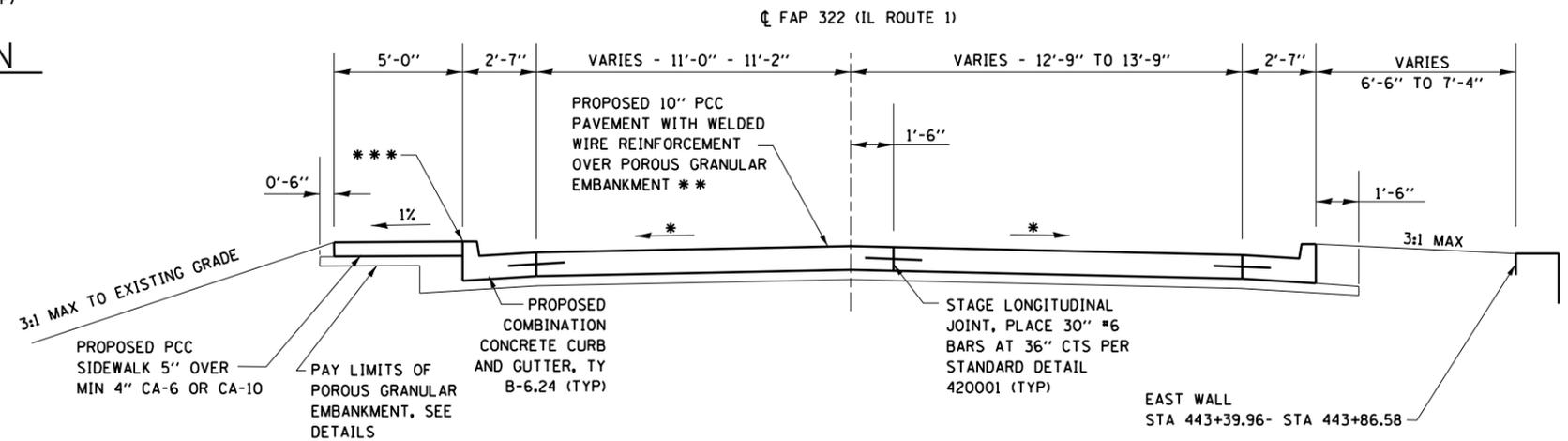
- \* MATCH EXISTING CROSS SLOPES
- \*\* TOP SLAB OF CULVERT AT EASTERN CURB, AND EDGE BEAM AT STAGE CONSTRUCTION JOINT MAY PROTRUDE INTO PAVEMENT, A MINIMUM 8" PAVEMENT SECTION SHALL BE MAINTAINED AT THESE LOCATIONS
- \*\*\* 1/2" PREFORMED JOINT FILLER WITH HOT POURED JOINT SEALER, INCLUDED WITH PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH



**ROADWAY TYPICAL SECTION  
AT WEST WALL**  
(LOOKING NORTH)



**EXISTING ROADWAY TYPICAL SECTION**  
(LOOKING NORTH)



**ROADWAY TYPICAL SECTION  
AT EAST WALL**  
(LOOKING NORTH)

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TYPICAL ROADWAY SECTIONS  
SN 097-7047 (E) SN 097-7095 (P)**

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	5B-3	WHITE	28	10
CONTRACT NO. 78390				
ILLINOIS FED. AID PROJECT				

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## PAVEMENT MARKING SCHEDULE

STATION	DESCRIPTION	LENGTH	PAVEMENT MARKING REMOVAL - GRINDING		RAISED REFLECTIVE PAVEMENT MARKING REMOVAL		SHORT TERM PAVEMENT MARKING		SHORT TERM PAVEMENT MARKING REMOVAL		TEMPORARY PAVEMENT MARKING - LINE 4"		TEMPORARY PAVEMENT MARKING REMOVAL		PAINT PAVEMENT MARKING - LINE 4"		REPLACEMENT REFLECTOR	
			LF	SF	EA	LF	SF	LF	SF	LF	SF	LF	EA					
CL STA 440+53 TO STA 444+34	YELLOW SOLID	381										381 X 1 APP.	127		381			
CL STA 440+53 TO STA 444+34	YELLOW SKIP-DASH	381					35 X 2 APP.	24				96 X 1 APP.	32		96			
CL STA 440+53 TO STA 444+34	RRPM	381			6													6
CL STA 440+53 TO STA 442+86	YELLOW SOLID	233	78															
CL STA 440+53 TO STA 442+86	YELLOW SKIP-DASH	233	19															
CL STA 443+80 TO STA 446+55	YELLOW SOLID	275	92															
CL STA 443+80 TO STA 446+55	YELLOW SKIP-DASH	275	23															
<b>TOTALS</b>				212	6		70	24		477	159		477		6			

\* APP. = APPLICATIONS

## POROUS GRANULAR EMBANKMENT SCHEDULE

DESCRIPTION	QUANTITY
CULVERT BACKFILL	250 CY
WALL BACKFILL, WALK/PAVEMENT SUBBASE, AND TRENCH BACKFILL	121 CY
<b>TOTAL</b>	<b>371 CY</b>

## SEWER SCHEDULE

DESCRIPTION	STATION
STORM SEWER REMOVAL 15"	RT STA 443+81 TO STA 443+83
STORM SEWER REMOVAL 24"	LT STA 442+83 TO STA 442+89
STORM SEWER REMOVAL 36"	RT STA 443+01 TO STA 443+43
FES 15"	RT STA 443+91
FES 24"	LT STA 442+89
FES 36"	RT STA 443+55
STORM SEWER 15"	RT STA 443+83 TO STA 443+96
STORM SEWER 36"	RT STA 443+06 TO STA 443+55
CONCRETE COLLAR	LT STA 442+83
MANHOLE 4' DIA	RT STA 443+96
MANHOLE 6' DIA	RT STA 443+04
MANHOLE 6' DIA	RT STA 443+44

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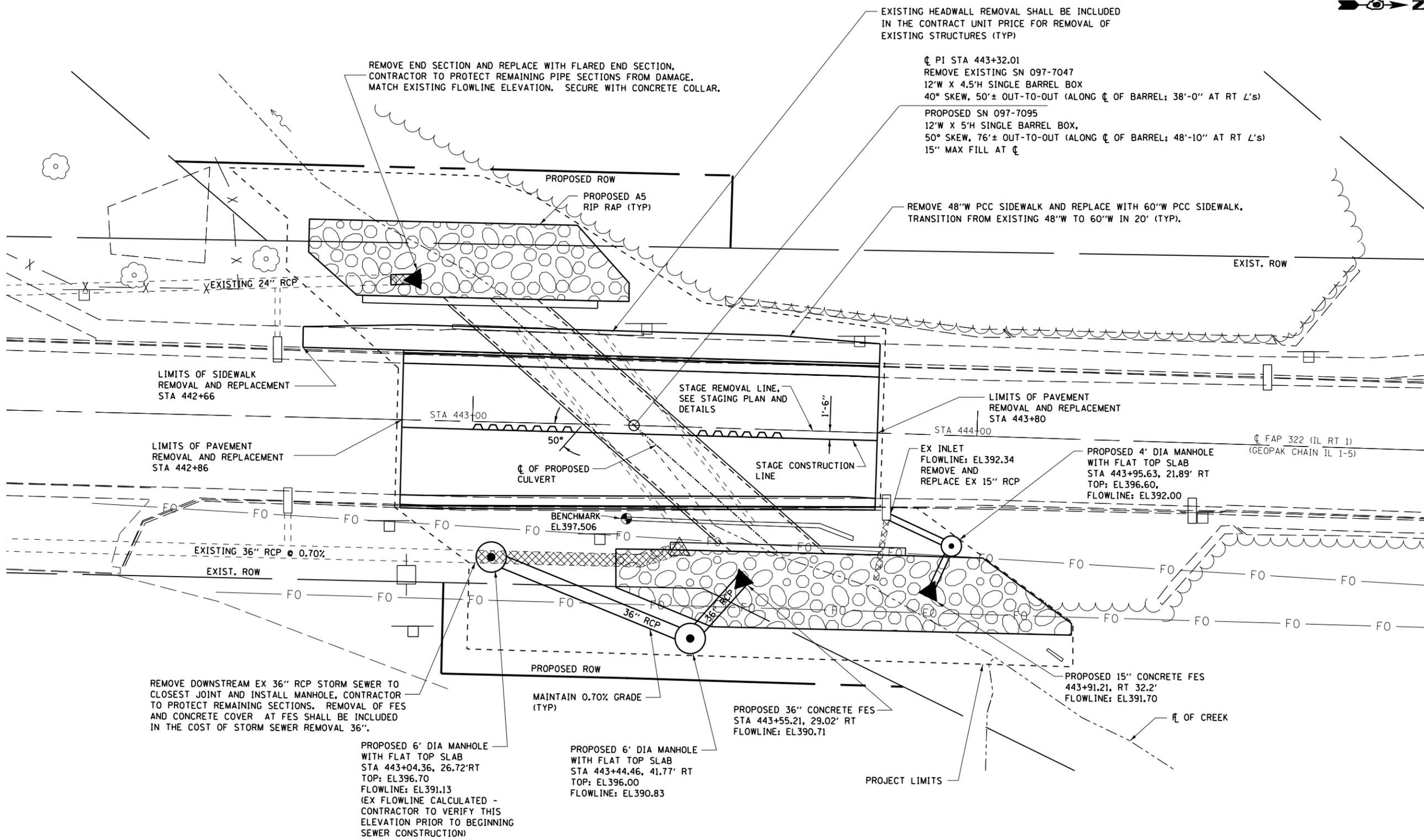
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PLOT DATE = 3/22/2018	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES  
SN 097-7047 (E) SN 097-7095 (P)**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	5B-3	WHITE	28	11
CONTRACT NO. 78390				
ILLINOIS FED. AID PROJECT				



EXISTING HEADWALL REMOVAL SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR REMOVAL OF EXISTING STRUCTURES (TYP)

CL PI STA 443+32.01  
 REMOVE EXISTING SN 097-7047  
 12'W X 4.5'H SINGLE BARREL BOX  
 40° SKEW, 50'± OUT-TO-OUT (ALONG CL OF BARREL; 38'-0" AT RT L's)

PROPOSED SN 097-7095  
 12'W X 5'H SINGLE BARREL BOX,  
 50° SKEW, 76'± OUT-TO-OUT (ALONG CL OF BARREL; 48'-10" AT RT L's)  
 15" MAX FILL AT CL

REMOVE 48"W PCC SIDEWALK AND REPLACE WITH 60"W PCC SIDEWALK, TRANSITION FROM EXISTING 48"W TO 60"W IN 20' (TYP).

LIMITS OF SIDEWALK REMOVAL AND REPLACEMENT STA 442+66

LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT STA 442+86

LIMITS OF PAVEMENT REMOVAL AND REPLACEMENT STA 443+80

EX INLET FLOWLINE: EL 392.34  
 REMOVE AND REPLACE EX 15" RCP

PROPOSED 4' DIA MANHOLE WITH FLAT TOP SLAB  
 STA 443+95.63, 21.89' RT  
 TOP: EL 396.60, FLOWLINE: EL 392.00

CL FAP 322 (IL RT 1)  
 (GEOPAK CHAIN IL 1-5)

REMOVE DOWNSTREAM EX 36" RCP STORM SEWER TO CLOSEST JOINT AND INSTALL MANHOLE, CONTRACTOR TO PROTECT REMAINING SECTIONS. REMOVAL OF FES AND CONCRETE COVER AT FES SHALL BE INCLUDED IN THE COST OF STORM SEWER REMOVAL 36".

MAINTAIN 0.70% GRADE (TYP)

PROPOSED 36" CONCRETE FES  
 STA 443+55.21, 29.02' RT  
 FLOWLINE: EL 390.71

PROPOSED 15" CONCRETE FES  
 443+91.21, RT 32.2'  
 FLOWLINE: EL 391.70

PROPOSED 6' DIA MANHOLE WITH FLAT TOP SLAB  
 STA 443+04.36, 26.72' RT  
 TOP: EL 396.70  
 FLOWLINE: EL 391.13  
 (EX FLOWLINE CALCULATED - CONTRACTOR TO VERIFY THIS ELEVATION PRIOR TO BEGINNING SEWER CONSTRUCTION)

PROPOSED 6' DIA MANHOLE WITH FLAT TOP SLAB  
 STA 443+44.46, 41.77' RT  
 TOP: EL 396.00  
 FLOWLINE: EL 390.83

**CULVERT REMOVAL AND REPLACEMENT  
 IL-1 OVER UNNAMED CREEK**

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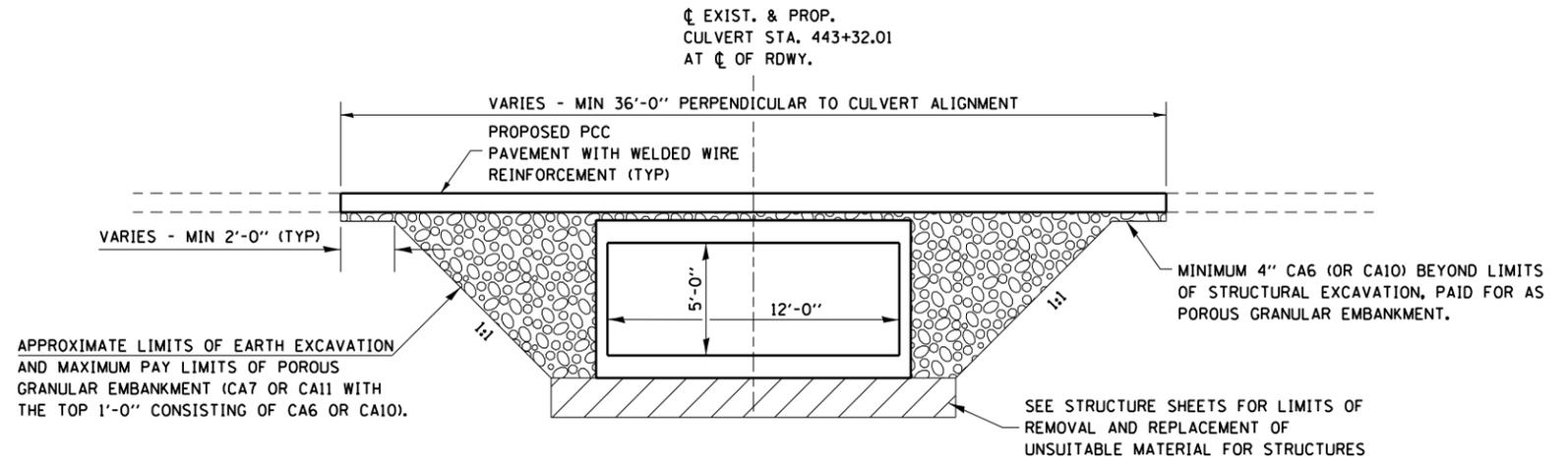
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

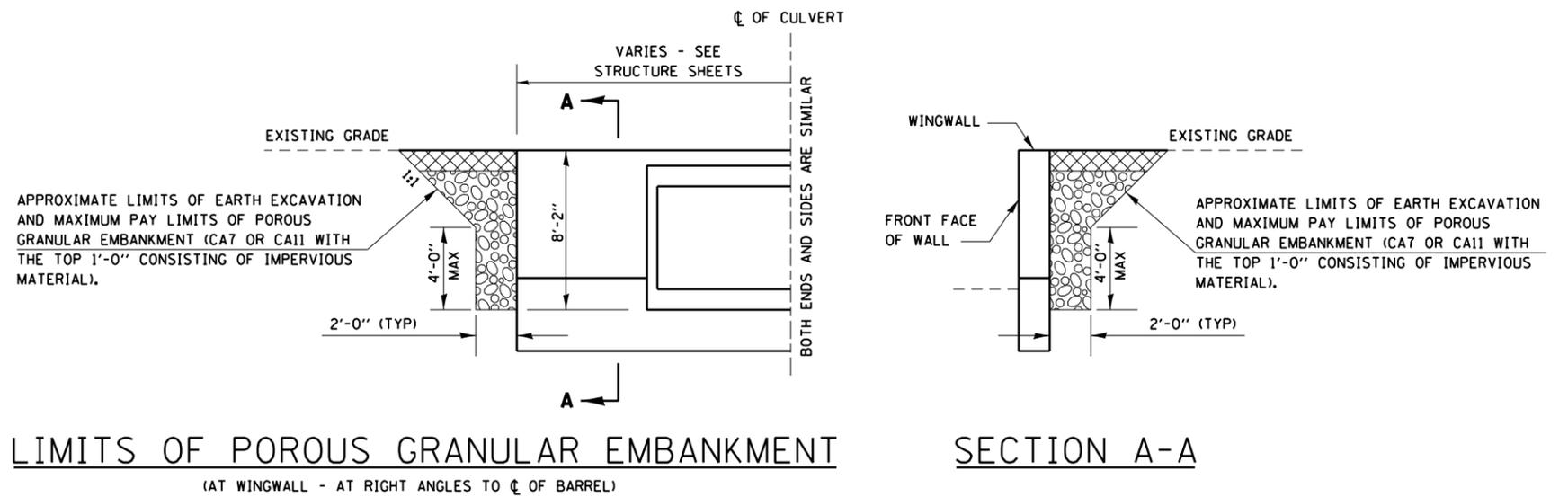
**GENERAL PLAN  
 SN 097-7047 (E) SN 097-7095 (P)**

SCALE: \_\_\_\_\_ SHEET \_\_\_\_\_ OF \_\_\_\_\_ SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE. 332	SECTION 5B-3	COUNTY WHITE	TOTAL SHEETS 28	SHEET NO. 12
CONTRACT NO. 78390				
ILLINOIS FED. AID PROJECT				



**LIMITS OF POROUS GRANULAR EMBANKMENT**  
 (AT CENTERLINE - AT RIGHT ANGLES TO ̢ OF BARREL)

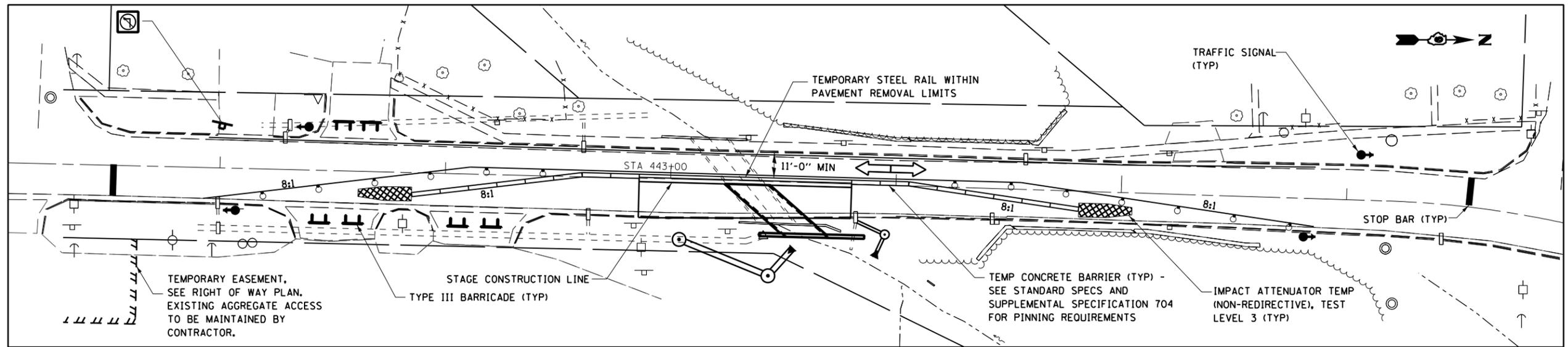


**LIMITS OF POROUS GRANULAR EMBANKMENT**  
 (AT WINGWALL - AT RIGHT ANGLES TO ̢ OF BARREL)

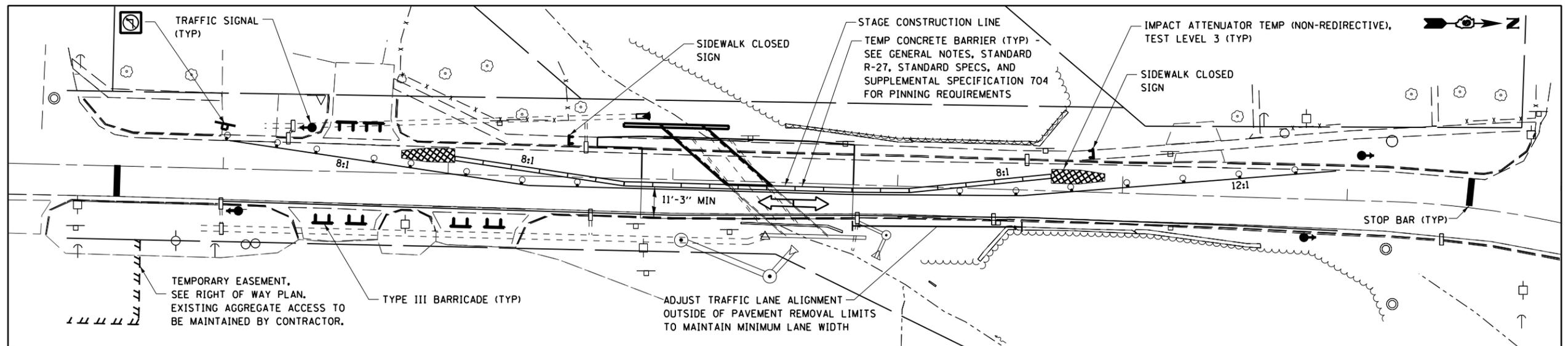
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USER NAME = Lamportcp	DESIGNED - _____	REVISED - _____	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>LIMITS OF POROUS GRANULAR EMBANKMENT</b> <b>SN 097-7047 (E) SN 097-7095 (P)</b>	F.A.P. RTE. 332	SECTION 5B-3	COUNTY WHITE	TOTAL SHEETS 28	SHEET NO. 13		
PLOT SCALE = 8.0000' / in.	CHECKED - _____	REVISED - _____			SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____	CONTRACT NO. 78390			
PLOT DATE = 2/21/2018	DATE - _____	REVISED - _____			ILLINOIS FED. AID PROJECT						



STAGE I



STAGE II

**NOTES**

1) SEE STANDARD 701321 AND WIDE LOAD DETOUR SIGNING SHEET FOR ADDITIONAL DETAILS. ALL TRAFFIC CONTROL SHOWN AND REFERENCED HEREIN SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL). NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.

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	DRAWN - _____	REVISED - _____
PLOT SCALE = 50.0000' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 2/21/2018	DATE - _____	REVISED - _____

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGING PLAN  
SN 097-7047 (E) SN 097-7095 (P)**

SCALE: \_\_\_\_\_ SHEET 1 OF 2 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	58-3	WHITE	28	14
CONTRACT NO. 78390				
ILLINOIS FED. AID PROJECT				



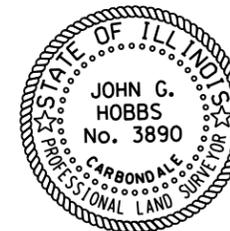
PT#	NORTHING	EASTING
JH6	545137.80	1061752.72
JH7	544993.52	1061648.80
JH9	545103.99	1061651.61
JH10	545011.68	1061664.48
JH11	545103.54	1061665.96
JH13	545046.23	1061750.10
JH15	545046.66	1061732.12
JH32	544725.84	1061762.34
JH36	544726.74	1061724.93
JH38	544815.50	1061726.92
JH39	544814.86	1061764.50

PARCEL	PROPERTY OWNER	PURPOSE	ACREAGE
125	JEFFERY D. CANTRELL	ROW	0.03±
126	NEC EQUIPMENT CORP.	TE	0.077±
129	BENJAMIN BELL & ANNA BELL	ROW	0.034±



SW QUARTER NE QUARTER  
SECTION 23  
T. 4 S., R. 10 E., 3RD PM

SE QUARTER NE QUARTER  
SECTION 23  
T. 4 S., R. 10 E., 3RD PM



JOHN G. HOBBS  
ILLINOIS PROFESSIONAL LAND SURVEYOR

Current license expires 11/2018.

This professional service conforms to the current Illinois minimum standards for a boundary survey.

MODEL: Default  
FILE NAME: P:\ILLINOIS\PROJECTS\78390\CADD\DATA\CADD\78390-1-1.dwg

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PLOT DATE = 2/21/2018	DATE - _____	REVISIONS - _____

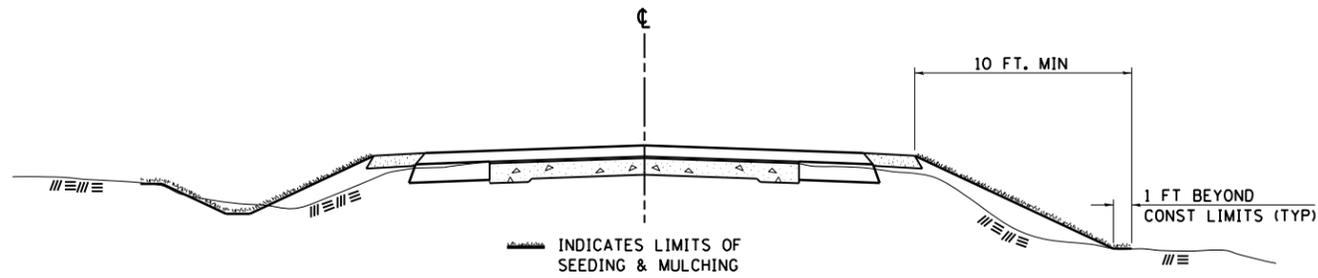
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RIGHT OF WAY PLAN  
IL RTE 1 SN097-7047

SCALE: 1" = 50' SHEET 1 OF 28 SHEETS STA. 439+75.00 TO STA. 445+10.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
132	5B-3	WHITE	28	16
CONTRACT NO. 78390				
R-99-006-14 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.

ON DETOUR ROADS, SLOPES SHALL BE SEEDED IMMEDIATELY UPON COMPLETION OF ANY GIVEN STAGE GRADING. TEMPORARY SEEDING SHALL BE CLASS 7.

FERTILIZER NUTRIENTS SHALL BE APPLIED TO ALL SEEDED AREAS. LIMESTONE SHALL BE APPLIED TO ALL AREAS OF FINAL SEEDING.

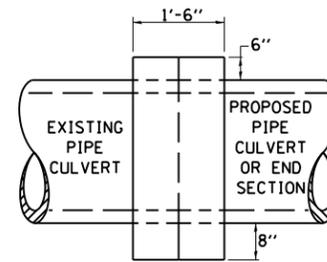
THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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

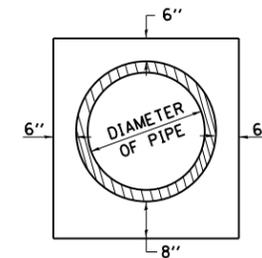
REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08
REVISED	5-16-13

STD. 9-12

# CONCRETE COLLAR PIPE TO PIPE



SIDE VIEW



END VIEW

## TABULATION

DIAMETER OF PIPE	CL SI CONC CU YDS EST
12"	0.24
15"	0.29
18"	0.32
24"	0.44
30"	0.56
36"	0.66
42"	0.80
48"	0.93
54"	1.07
60"	1.22
72"	1.55

THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR **CONCRETE COLLAR**, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS THE EXISTING HEADWALLS AS MAY BE REQUIRED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

REVISIONS	
DRAWN	7-13-90
REVISED	8-22-94
REVISED	3-26-08
REVISED	5-17-13

STD. 9-79

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PLOT DATE = 2/21/2018	CHECKED - _____	REVISED - _____
	DATE - _____	REVISED - _____

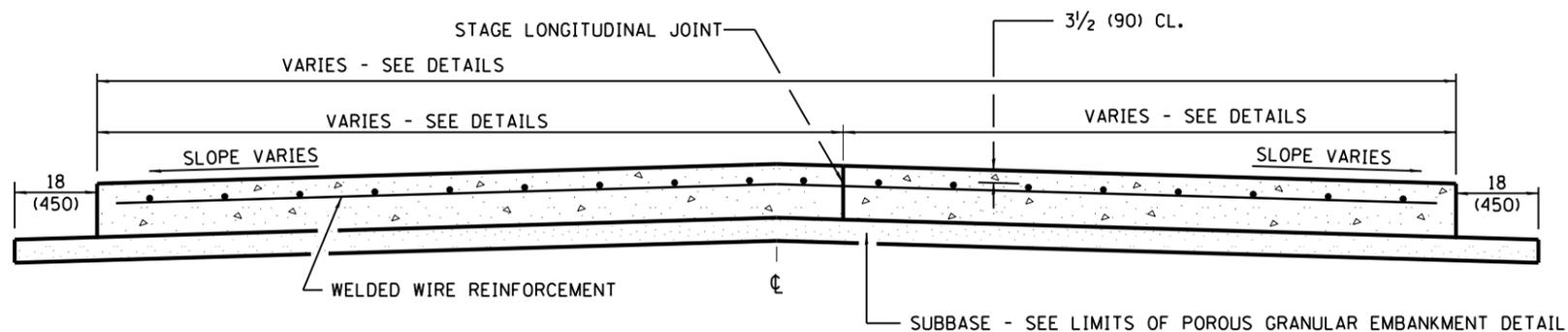
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT STANDARDS  
SN 097-7047 (E) SN 097-7095 (P)

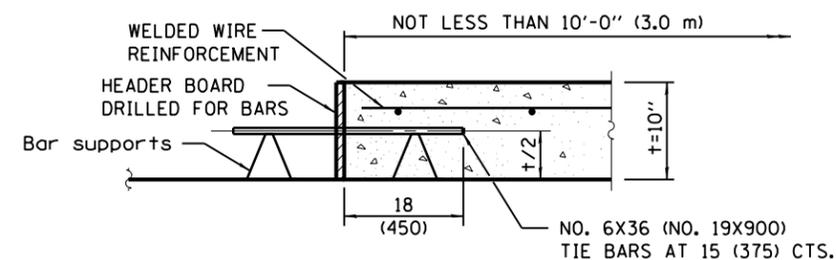
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	5B-3	WHITE	28	17
CONTRACT NO. 78390				
ILLINOIS FED. AID PROJECT				

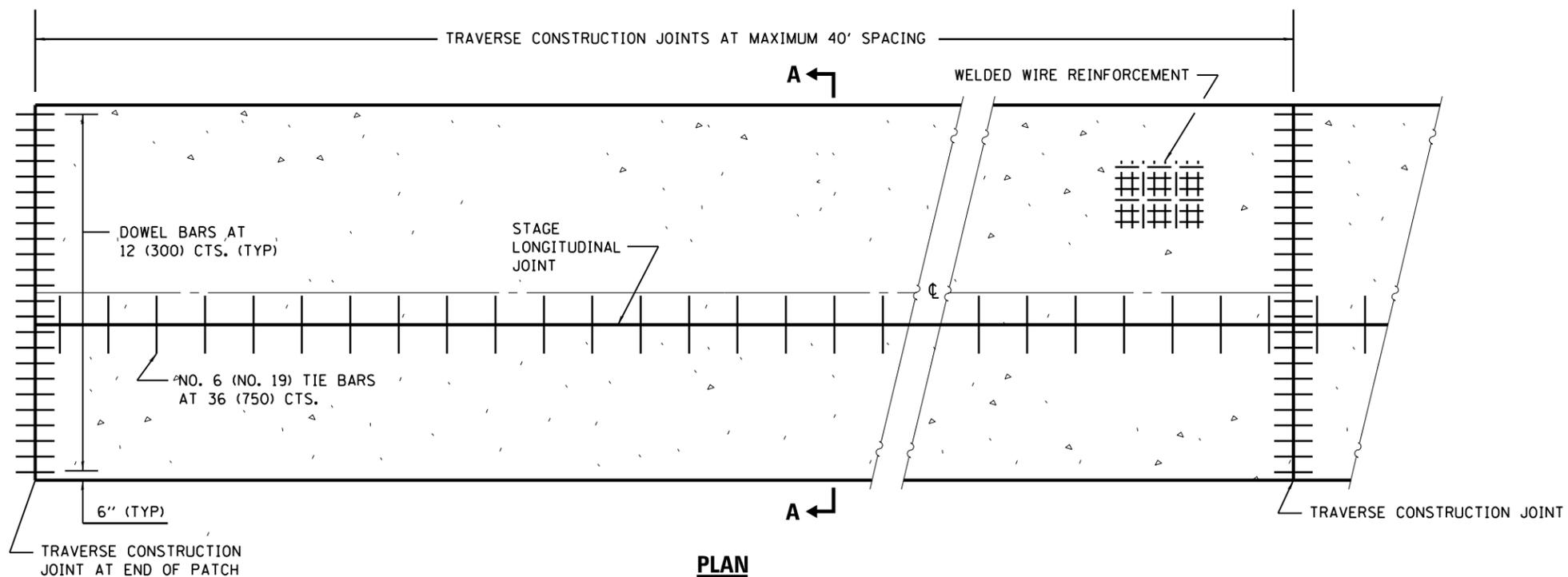
# PCC PAVEMENT OVER BOX CULVERT



**SECTION A-A**



**TRANSVERSE CONSTRUCTION JOINT**



**PLAN**

**GENERAL NOTES**

SEE STANDARD 420001 FOR DETAILS NOT SHOWN.  
SEE STANDARD 420701 FOR WELDED WIRE REINFORCEMENT DETAILS.  
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

**REVISIONS**

DRAWN	11-9-17

MODEL: Default  
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PLOT DATE = 2/21/2018	DATE - _____	REVISED - _____	

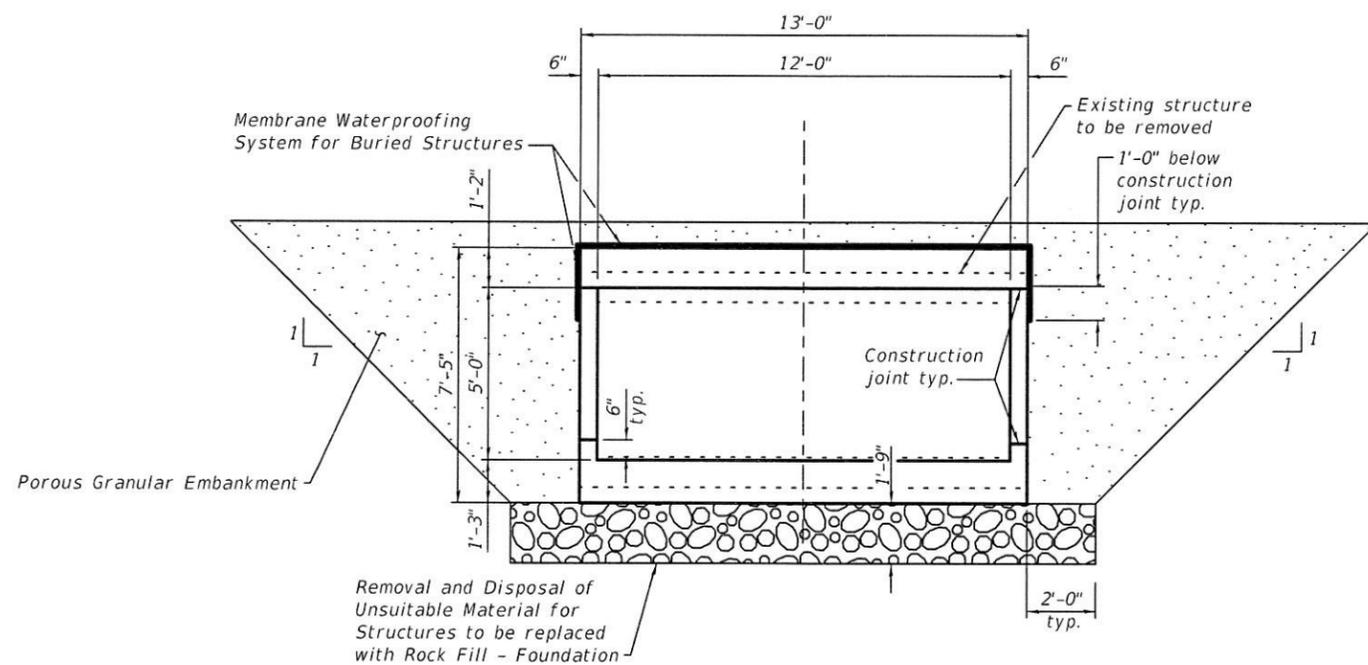
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DISTRICT STANDARDS  
SN 097-7047 (E) SN 097-7095 (P)**

SCALE: \_\_\_\_\_ SHEET 2 OF 2 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	5B-3	WHITE	28	18
CONTRACT NO. 78390				
ILLINOIS FED. AID PROJECT				





**SECTION THROUGH BARREL**  
(Dimensions at rt. angle to barrel)

**NOTES**

1. The limits and quantities of removal and replacement shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field.
2. Excavation for construction of the box culvert, including the excavation necessary to construct the Porous Granular Embankment, is included in Earth Excavation, see roadway plans.

PROJECT NUMBER: 1295.01  
 DATE: 12/17/17  
 DRAWN BY: KAH/KJA  
 CHECKED BY: ELH  
 PLOT DATE: 5/3/2018  
 FILE: \\sca\projects\1295.01\1295.01.dwg



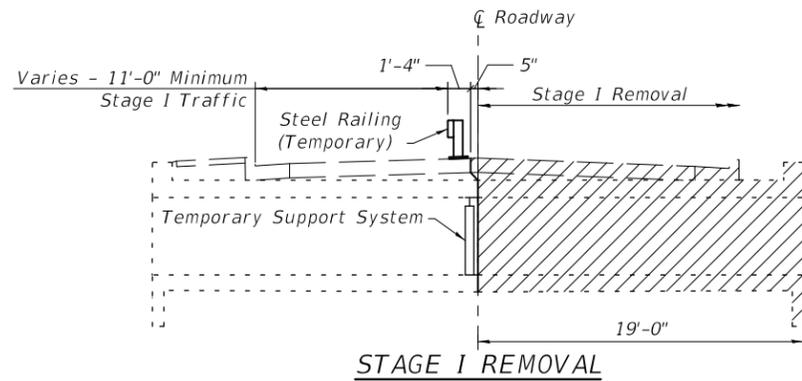
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PLOT SCALE = 0.1667 in	DRAWN - KAH/KJA	12/17	REVISED -
PLOT DATE = 5/3/2018	CHECKED - ELH	05/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

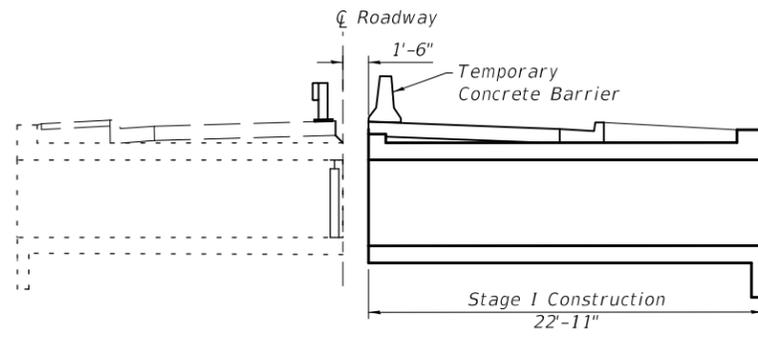
**GENERAL DATA  
STRUCTURE NO. 097-7095**

SHEET NO. 2 OF 10 SHEETS

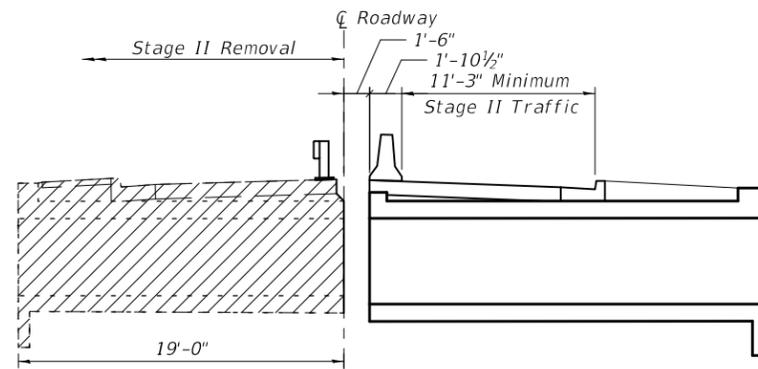
F.A.P. RTE. 332	SECTION 5B-3	COUNTY WHITE	TOTAL SHEETS 28	SHEET NO. 20
ILLINOIS FED. AID PROJECT			CONTRACT NO. 78390	



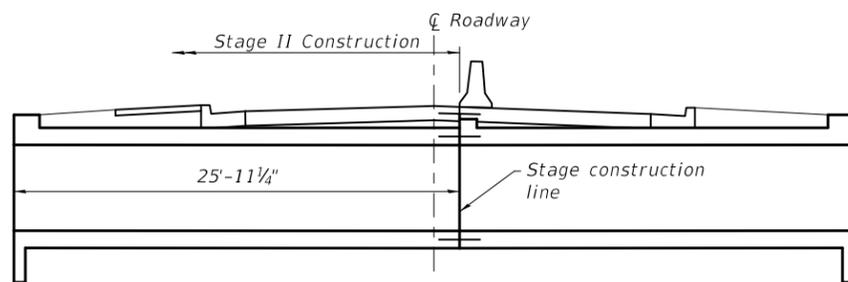
**STAGE I REMOVAL**



**STAGE I CONSTRUCTION**



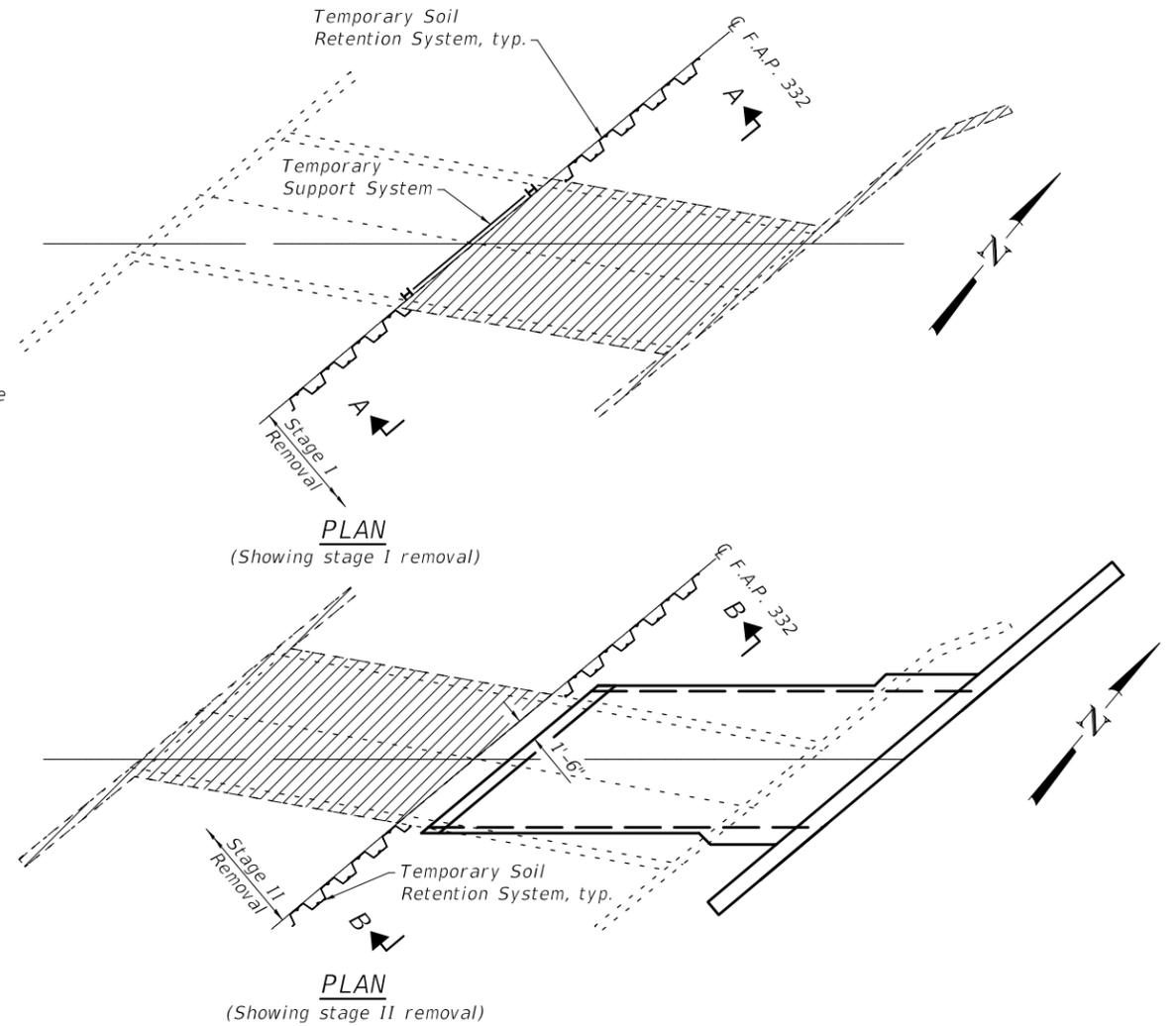
**STAGE II REMOVAL**



**STAGE II CONSTRUCTION**

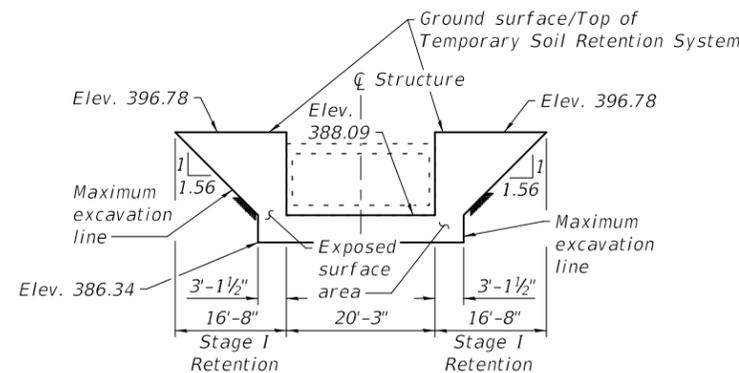
**STAGE CONSTRUCTION NOTES**

1. All staging sections looking north.
2. Hatched areas indicate removal.
3. See roadway plans for quantities of Temporary Concrete Barrier.
4. Dimensions are at right angle to centerline roadway unless noted otherwise.
5. The anchorage for each post of the temporary railing shall consist of 4 - 1 1/4" dia. holes for 1" dia. threaded rods with hex nut and flat washer. Drill and set rods according to Article 509.06 of the Standard Specifications with 12" of embedment into the existing pavement.



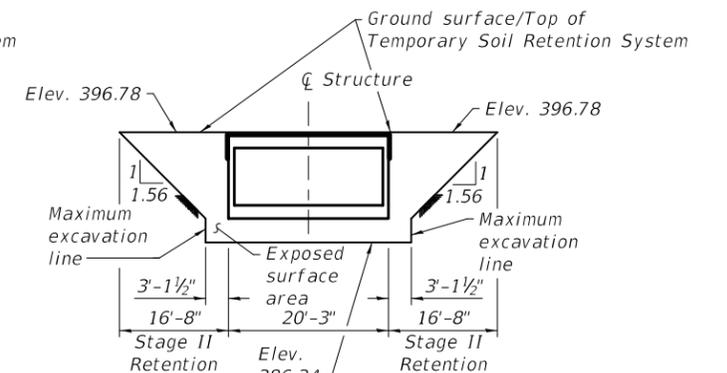
**PLAN**  
(Showing stage I removal)

**PLAN**  
(Showing stage II removal)



**VIEW A-A**

(Showing Temporary Soil Retention System for Stage I Construction)



**VIEW B-B**

(Showing Temporary Soil Retention System for Stage II Construction)

**TEMPORARY SOIL RETENTION SYSTEM NOTES**

1. 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.
2. Existing structure details are taken from existing plans.
3. Dimensions and slopes are shown along the Temporary Soil Retention System unless noted otherwise.

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 DATE: 1/17/2018 10:58:11 AM



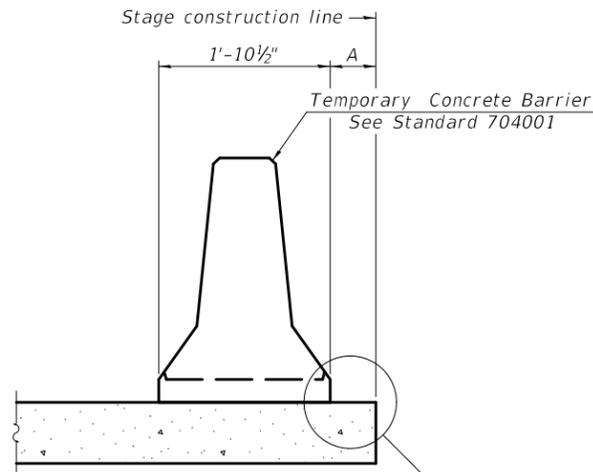
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ESCA PROJECT NO. 1295.01	CHECKED - RTM/ELH	12/17	REVISED -
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PLOT DATE = 1/17/2018	CHECKED - ELH	01/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS  
STRUCTURE NO. 097-7095**

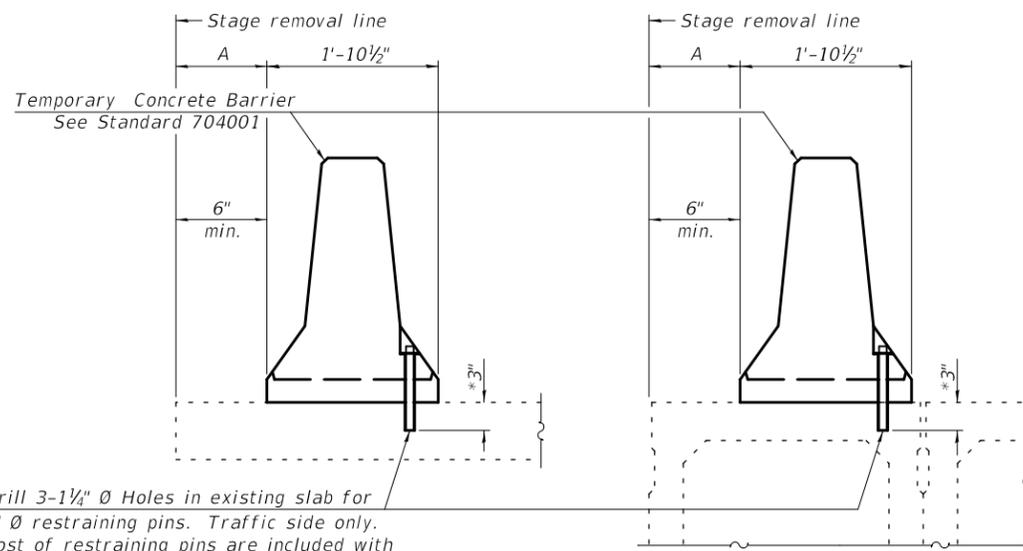
SHEET NO. 3 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	5B-3	WHITE	28	21
CONTRACT NO. 78390				
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, II or III. No restraint is required when "A" is greater than 3'-1". See Detail I, II or III

NEW SLAB OR NEW DECK BEAM



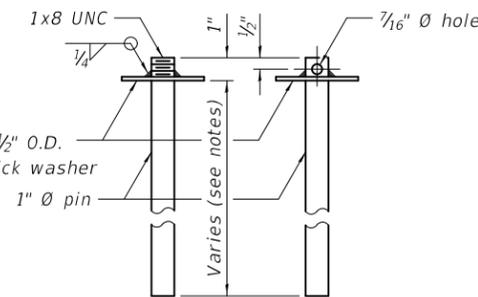
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

\* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

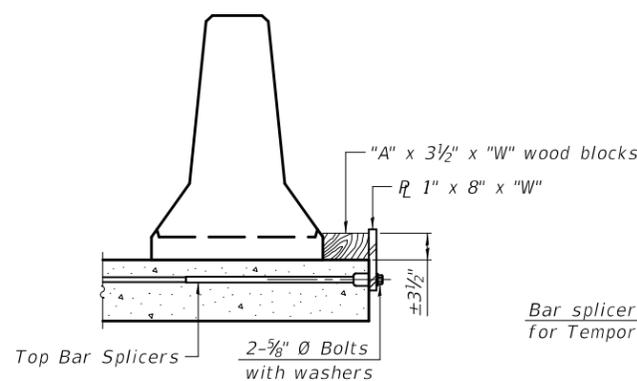
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM

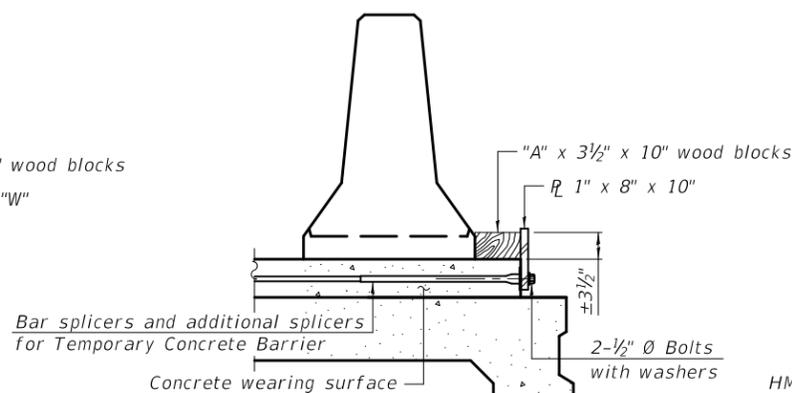


US Std. 1 1/16" I.D. x 2 1/2" O.D. x approx. 8 gauge thick washer

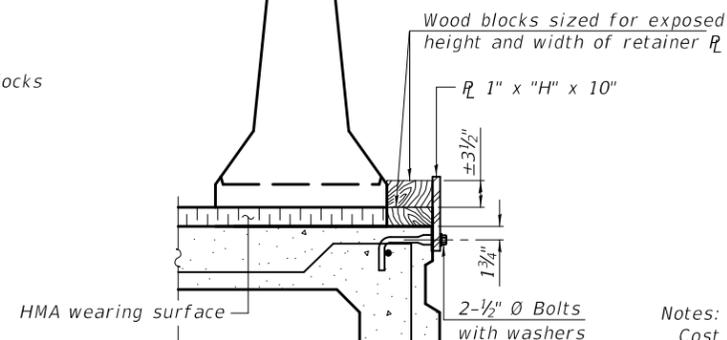
RESTRAINING PIN



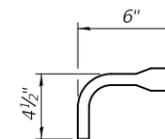
DETAIL I



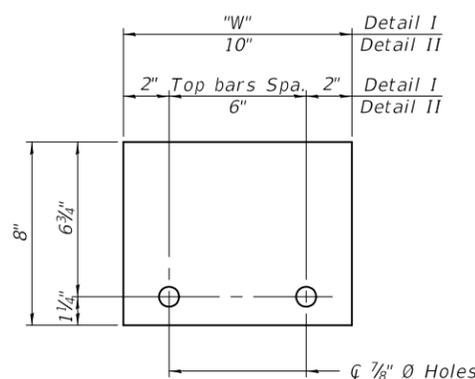
DETAIL II



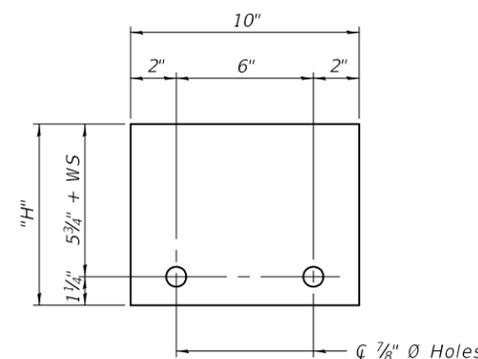
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W" (Detail I and II)



STEEL RETAINER 1" x "H" x 10" (Detail III)

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate center of each temporary concrete barrier.

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than 1 1/2', the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6' to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27

8-11-2017

PRINT DRIVER: L:\05-ESCA\Projects\097-7095\097-7095-04-1-17-18.dwg



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ESCA PROJECT NO. 1295.01  
PLOT SCALE = 0.1667' / in.  
PLOT DATE = 1/17/2018

DESIGNED - KJA 12/17  
CHECKED - RTM 12/17  
DRAWN - KAH 12/17  
CHECKED - ELH 01/18

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION  
STRUCTURE NO. 097-7095

SHEET NO. 4 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	5B-3	WHITE	28	22
			CONTRACT NO. 78390	
ILLINOIS FED. AID PROJECT				

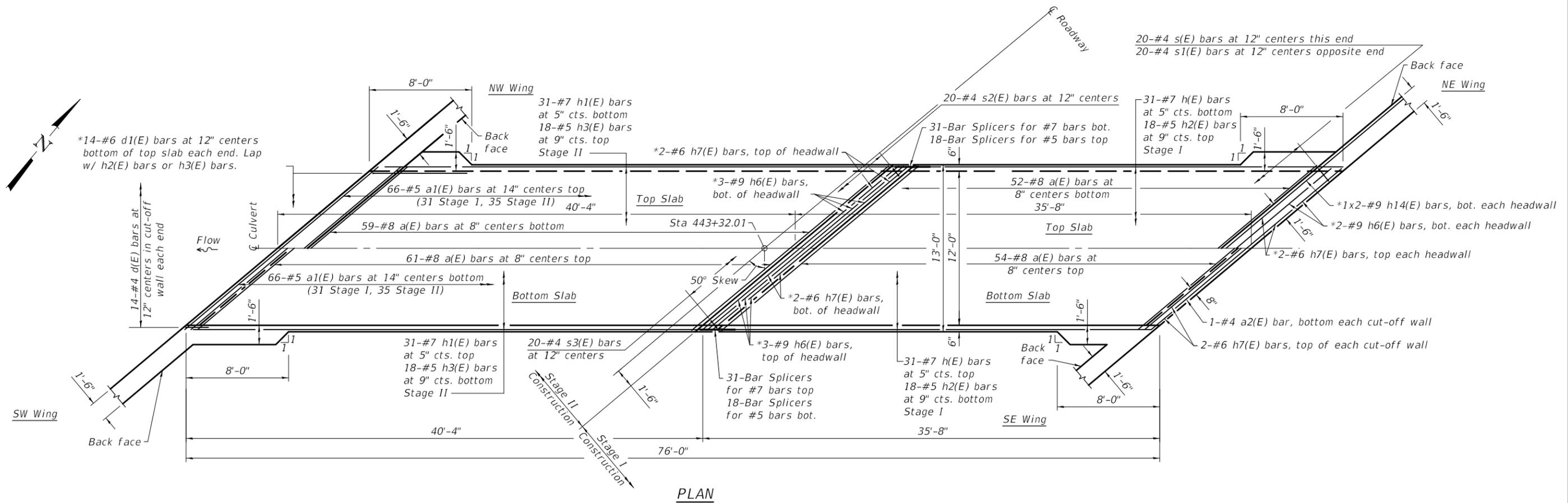
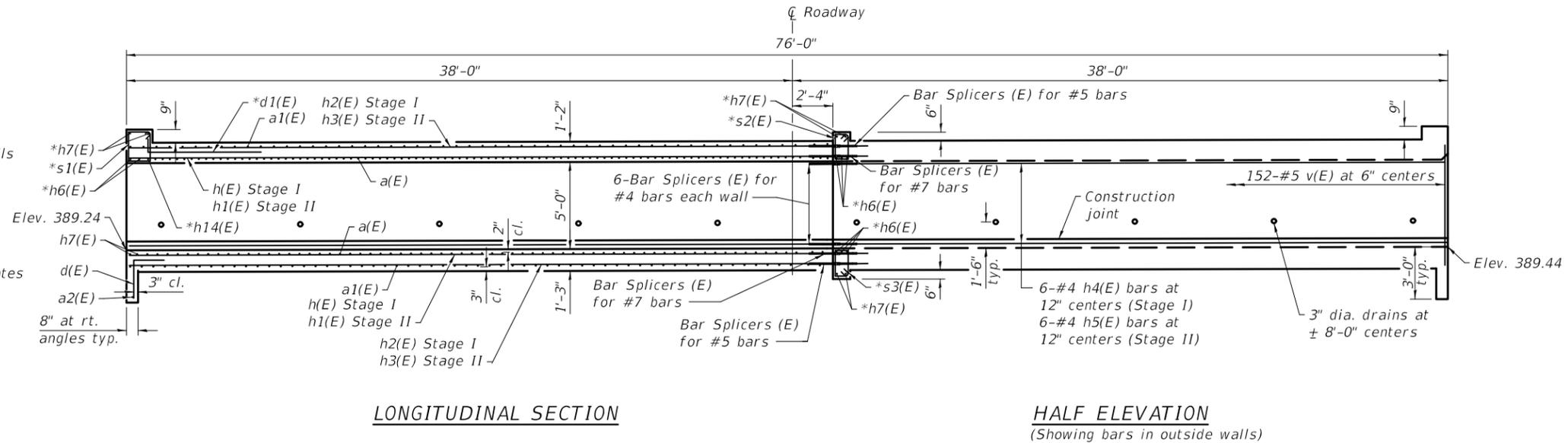


**MINIMUM BAR LAP**

- #4 bars = 2'-11"
- #5 bars = 3'-2"
- #7 bars, top slab = 5'-6"
- #7 bars, bot. slab = 6'-3"
- #9 bars = 6'-3"

**NOTES**

See sheet 7 of 10 for wingwall details.  
 See sheet 8 of 10 for additional details & Bill of Material.  
 A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the horizontal cantilever wingwalls.  
 Bars indicated thus 1x2-#9 etc. indicates 1 line of bars with 2 lengths per line.



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ESCA PROJECT NO. 1295.01	CHECKED - RTM/ELH	12/17	REVISED -
PLOT SCALE = 0:2" = 1' / in.	DRAWN - KAH/KJA	12/17	REVISED -
PLOT DATE = 1/17/2018	CHECKED - ELH	01/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BOX CULVERT DETAILS  
STRUCTURE NO. 097-7095**

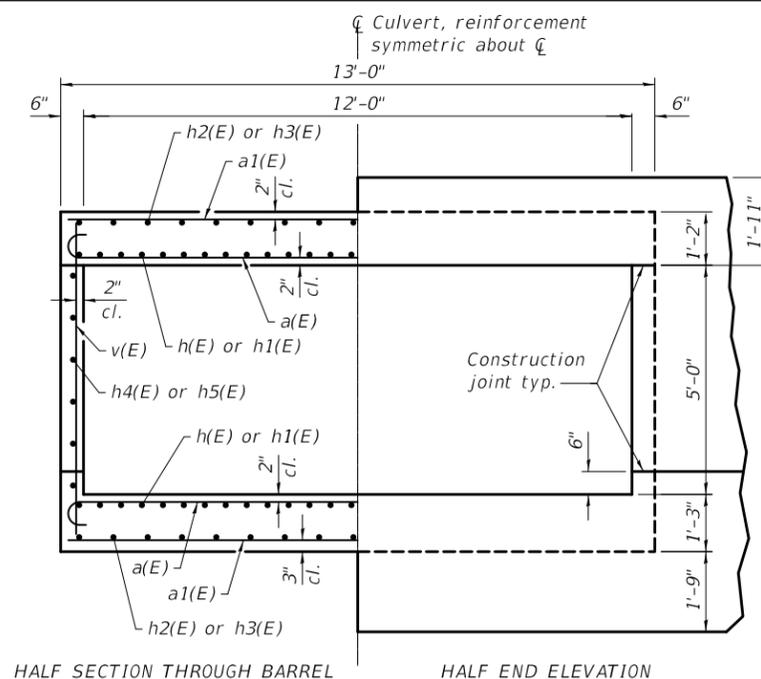
SHEET NO. 6 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	5B-3	WHITE	28	24
CONTRACT NO. 78390				
ILLINOIS FED. AID PROJECT				

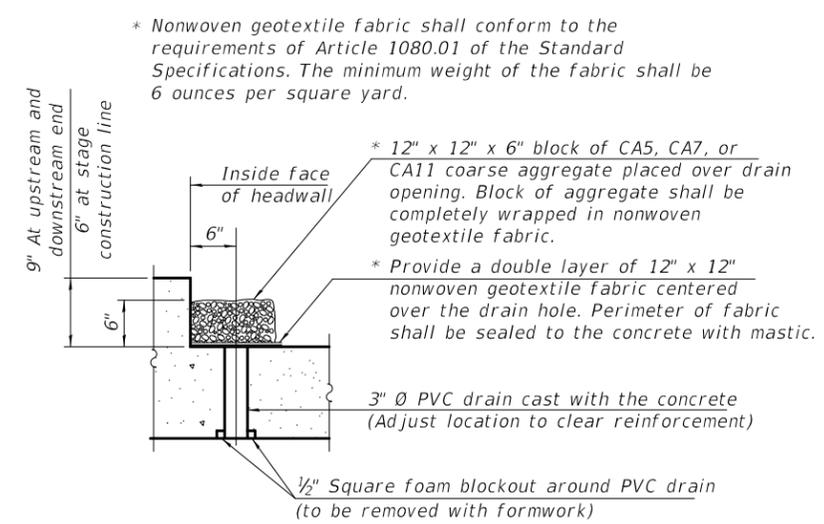


**BILL OF MATERIAL**

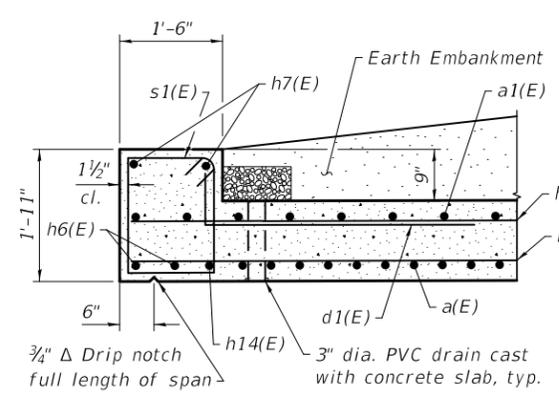
Bar	No.	Size	Length	Shape	
a(E)	226	#8	21'-8"	U	
a1(E)	132	#5	19'-10"	U	
a2(E)	2	#4	19'-10"	U	
d(E)	28	#4	4'-8"	U	
d1(E)	28	#6	7'-4"	U	
h(E)	62	#7	35'-4"	U	
h1(E)	62	#7	40'-0"	U	
h2(E)	36	#5	35'-4"	U	
h3(E)	36	#5	40'-0"	U	
h4(E)	12	#4	35'-4"	U	
h5(E)	12	#4	40'-0"	U	
h6(E)	10	#9	19'-10"	U	
h7(E)	12	#6	19'-10"	U	
h8(E)	34	#8	8'-0"	U	
h9(E)	34	#8	20'-0"	U	
h10(E)	8	#8	18'-3"	U	
h11(E)	24	#8	7'-2"	U	
h12(E)	24	#8	12'-3"	U	
h13(E)	6	#8	11'-9"	U	
h14(E)	4	#9	26'-4"	U	
h15(E)	20	#4	15'-8"	U	
h16(E)	20	#4	11'-5"	U	
s(E)	20	#4	6'-4"	U	
s1(E)	20	#4	6'-7"	U	
s2(E)	20	#4	5'-1"	U	
s3(E)	20	#4	5'-3"	U	
v(E)	312	#5	7'-0"	U	
v1(E)	110	#4	9'-7"	U	
Concrete Box Culverts				Cu. Yd.	141.2
Reinforcement Bars, Epoxy Coated				Pound	38640



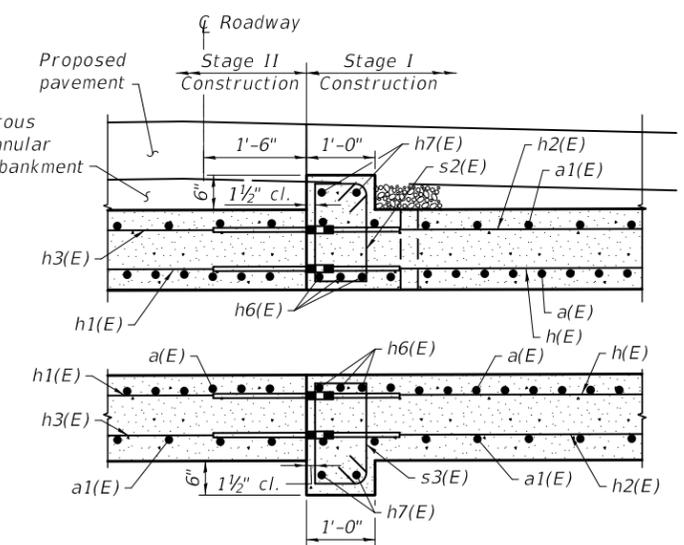
**SECTION THROUGH BARREL**  
(Dimensions at right angle to barrel)



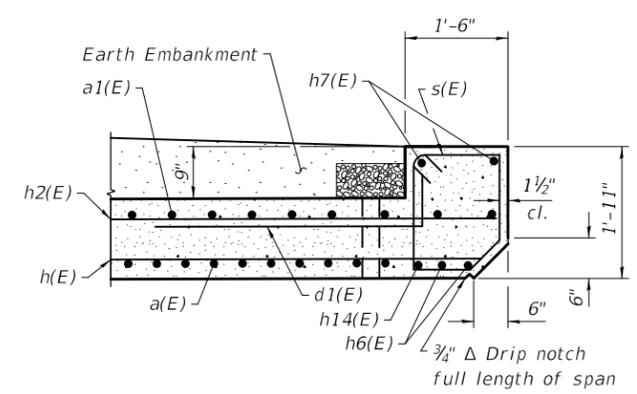
**DRAIN DETAIL**  
(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



**AT DOWNSTREAM END**



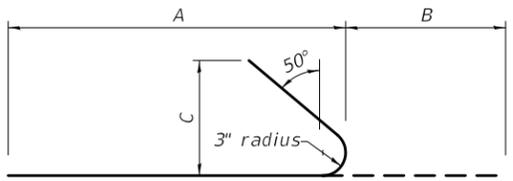
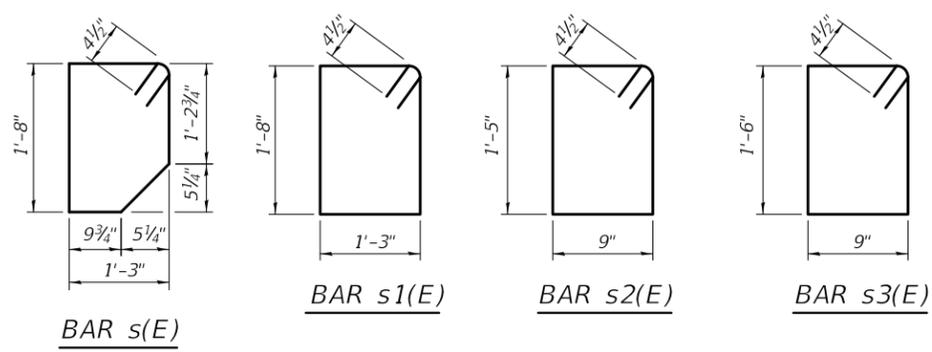
**AT STAGE CONSTRUCTION LINE**



**AT UPSTREAM END**

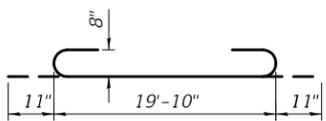
**HEADWALL DETAILS**

(Dimensions at right angles to Rdwy)

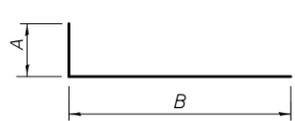


BAR	A	B	C
h10(E)	16'-8"	1'-7"	1'-2"
h11(E)	4'-5"	2'-9"	1'-11"
h12(E)	9'-6"	2'-9"	1'-11"

**BARs h10(E), h11(E), h12(E)**

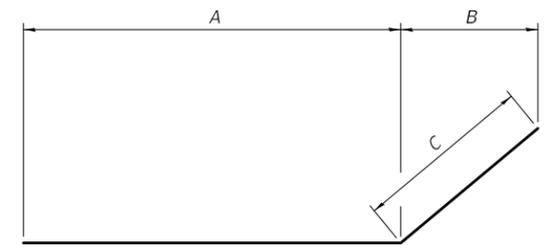


**BAR a(E)**



**BARs d(E), d1(E)**

BAR	A	B
d(E)	2'-8"	2'-0"
d1(E)	10"	6'-6"



**BARs h8(E), h9(E), h13(E)**

BAR	A	B	C
h8(E)	5'-0"	2'-3 1/2"	3'-0"
h9(E)	17'-0"	2'-3 1/2"	3'-0"
h13(E)	9'-11"	1'-4 3/4"	1'-10"

(Sheet 3 of 3)

PRINT DRIVER: L:\05-ESCA\10176-01\10176-01.dwg  
 SCALE: 1/8"=1'-0"  
 DATE: 1/17/2018  
 USER: kja  
 PLOT: 1/17/2018 10:10:10 AM  
 PLOT SCALE: 0.1667  
 PLOT DATE: 1/17/2018



USER NAME = kja	DESIGNED - KJA	12/17	REVISED -
ESCA PROJECT NO. 1295.01	CHECKED - RTM/ELH	12/17	REVISED -
PLOT SCALE = 0.1667' / in.	DRAWN - KAH/KJA	12/17	REVISED -
PLOT DATE = 1/17/2018	CHECKED - ELH	01/18	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BOX CULVERTS  
STRUCTURE NO. 097-7095**

SHEET NO. 8 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	5B-3	WHITE	28	26
CONTRACT NO. 78390				

ILLINOIS FED. AID PROJECT



