08-03-2018 LETTING ITEM 045

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED

SECTION 124CR-1;109CR-1 PROJECT STP-1BLL(805) **CULVERT REPLACEMENT**

C-99-089-18

HIGHWAY PLANS

FAP 776/FAS 2826 (IL 142/IL 37)

SALINE/JEFFERSON COUNTY

1720

TRAFFIC DATA

FOR INDEX OF SHEETS, SEE SHEET NO. 3

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4

IL 142: ADT(2018)

%TRUCKS 14.5%

IL 37: ADT(2018) 3030

%TRUCKS 5.6%

TOWNSHIPS

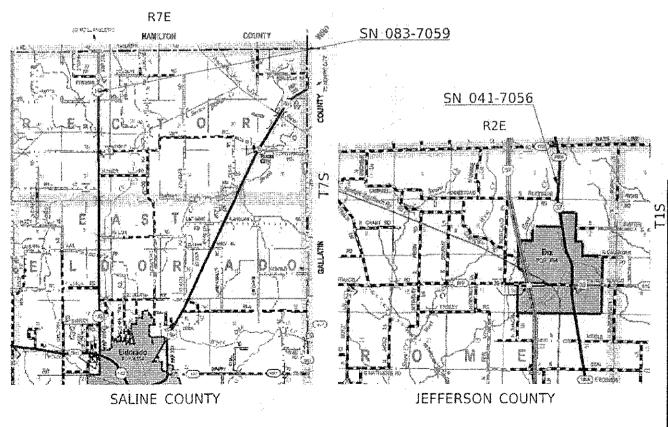
SN 083-7059: RECTOR SN 041-7056: ROME

DESIGN DESIGNATION: N/A COORDINATE SYSTEM : N/A POSTED SPEED: 55 MPH

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

PROJECT ENGINEER: CHARLES STEIN PROJECT DESIGNER(S): BEN DUGAS, MICHAELA DOLLINS

GROSS LENGTH = 200.0 FT. = 0.04 MILES NET LENGTH = 200.0 FT. = 0.04 MILES



STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** June 29 20 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

LOCATION OF SECTION INDICATED THUS: -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

D-99-058 -18

CONTRACT NO. 78661

Prepared By:

DISTRICT STUDIES & PLANS ENGINEER

Examined By: Nancyter

DISTRICT LAND ACQUISITION ENGINEER

Examined By:

Examined By: Well JUK

DISTRICT OPERATIONS ENGINEER

Examined By:

DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By:

DISTRICT CONSTRUCTION ENGINEER

Examined By:

DISTRICT MATERIALS ENGINEER

USER NAME = DUGASBC	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/26/2018	DATE -	REVISED -

STATE	OF	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

SIGNATURE SHEET										
	SHEET	OF	SHEETS	STA.	TO STA.					

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEETS, STANDARDS, GENERAL NOTES, COMMITMENTS
4 - 5	SUMMARY OF QUANTITIES
6	TYPICAL SECTION IL 142, CROSS SECTIONAL VIEW OF EARTH EXCAVATIO
7	TYPICAL SECTION IL 37, CROSS SECTIONAL VIEW OF EARTH EXCAVATION
8	PLAN VIEW SN 083-7059
9	PLAN VIEW SN 041-7056
10	FINAL SECTION IL 142
11	FINAL SECTION IL 37

STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-03	CLASS C AND D PATCHES
542011-02	CONCRETE END SECTIONS FOR ELLIPTICAL PIPE CULVERTS, 15" THRU 72" EQUIVALENT DIAMETER
542311-07	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701901-07	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

GENERAL NOTES

QUANTITIES SHOWN IN THE PLANS FOR PATCHING ARE ESTIMATES. THE ACTUAL AMOUNT OF PATCHING REQUIRED WILL BE DETERMINED BY THE ENGINEER.

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.

EARTHWORK COMPACTION SHALL BE TO THE SATISFACTION OF THE ENGINEER.

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.

RECLAIMED ASPHALT PAVEMENT (RAP) WILL NOT BE ALLOWED FOR USE AS AGGREGATE IN AGGREGATE SHOULDERS, TYPE B.

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.

REMOVAL OF EXISTING AGGREGATE SHOULDERS SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

A CALCIUM CHLORIDE ACCELERATOR WILL BE ALLOWED FOR CLASS C PATCHES PER ARTICLE 1013.01.

COMMITMENTS

THE FOLLOWING SHALL BE CONTACTED 3 WEEKS PRIOR TO ANY WORK INVOLVING TRAFFIC CONTROL AND PROTECTION THAT AFFECTS THE PUBLIC AND PRIOR TO THE 21 DAY NOTIFICATION SIGNING:

SALINE COUNTY SHERIFF KEITH BROWN 618-252-8661

JEFFERSON COUNTY SHERIFF TRAVIS ALLEN 618-244-8004

USER NAME = DUGASBC	DESIGNED -	REVISED -
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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/27/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STANDARDS,
GENERAL NOTES AND COMMITMENTS

SHEET OF SHEETS STA. TO S

80% FED 20% STATE

SALINE

IL 142

COUNTY:

ROUTE:

80% FED 20% STATE

JEFFERSON

IL 37

SUMMARY OF QUANTITIES

			FUNDING:		
			LOCATION:	RURAL	RURAL
CODE	TEM DECEDITION	UNIT	TOTAL	ROADWAY	ROADWAY
NUMBER	ITEM DESCRIPTION	Oldi	QUANTITY	0004	0004
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	6	0	6
20200100	EARTH EXCAVATION	CU YD	65	45	20
20200100	LANTI EXCAVATION				
20400000	FURNISHED EXCAVATION	CU YD	253	108	145
20400800	FURNISHED EXCAVATION	00.13			
	DODOUG COANNIAD EMBANIZMENT	CU YD	195	75	120
20700220	POROUS GRANULAR EMBANKMENT	COTD	155		
		4605	0,2	0,1	0.1
25000200	SEEDING, CLASS 2	ACRE	0.2	1,0	0.1
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	18	9	9
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	18	9	9
]		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	18	9	9
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.4	0.2	0.2
25100630	EROSION CONTROL BLANKET	SQ YD	968	484	484
23100050	EROSION CONTROL SERVICE			W.FW.	
28100105	STONE RIPRAP, CLASS A3	SQ YD	248	60	188
28100103	STONE RIFINAL, CEASS AS	-3.		<u></u>	
40102500	ACCRECATE SHOULDERS TYPE P 9"	SQ YD	55	26	29
48101600	AGGREGATE SHOULDERS, TYPE B 8"	34 10			
	The state of the s	EACH	2	1	1
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH		±	<u> </u>
		1			

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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/27/2018	DATÉ -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
HEET OF SHEETS STA.

J/FAS 2826 DEV/

MODEL: Default File NAME: ow:WII 0846

REV. - MS

80% FED 20% STATE

80% FED 20% STATE

COUNTY: SALINE **JEFFERSON** SUMMARY OF QUANTITIES - CONT ROUTE: IL 142 IL 37 **FUNDING:** LOCATION: RURAL RURAL ROADWAY ROADWAY TOTAL CODE UNIT ITEM DESCRIPTION QUANTITY 0004 0004 NUMBER FOOT 68 60 542A5503 PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 48" 128 109.5 54260315 TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTION FOOT 219 109.5 54263348 CONCRETE END SECTION, STANDARD 542011, 48", 1:3 EACH 8 4 4 67100100 MOBILIZATION L SUM 1 0.5 TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 L SUM 1 0.5 0.5 70100450 L SUM 1 0.5 0.5 70101830 TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21 78001110 PAINT PAVEMENT MARKING - LINE 4" 181 X7015005 CAL DAY 84 CHANGEABLE MESSAGE SIGN 84 84 0 X1700069 CLASS C PATCHES, TYPE IV, 11.5 INCH SQ YD SQ YD 71 71 X1700070 CLASS C PATCHES, TYPE IV, 14.5 INCH

* SPECIALTY ITEM

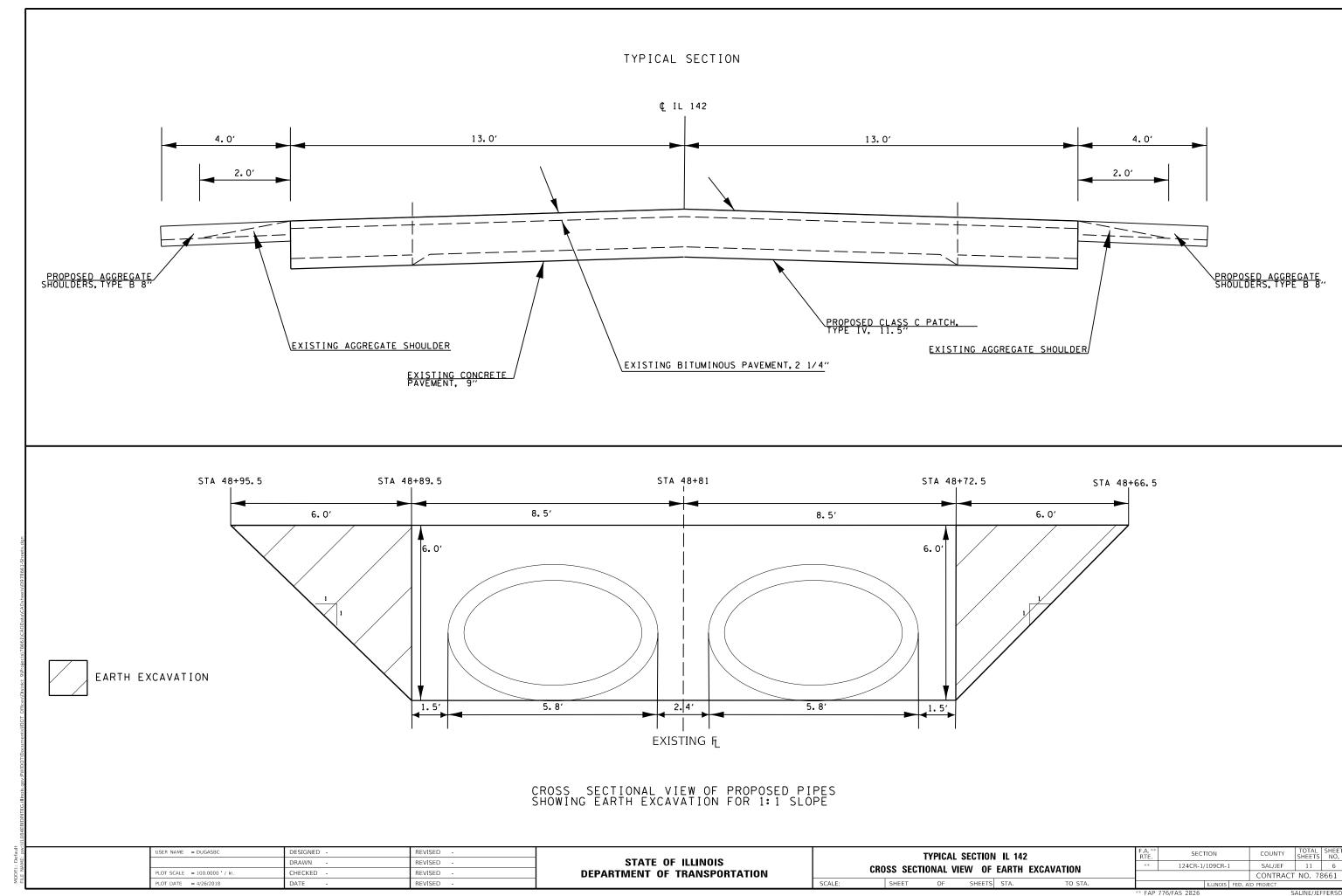
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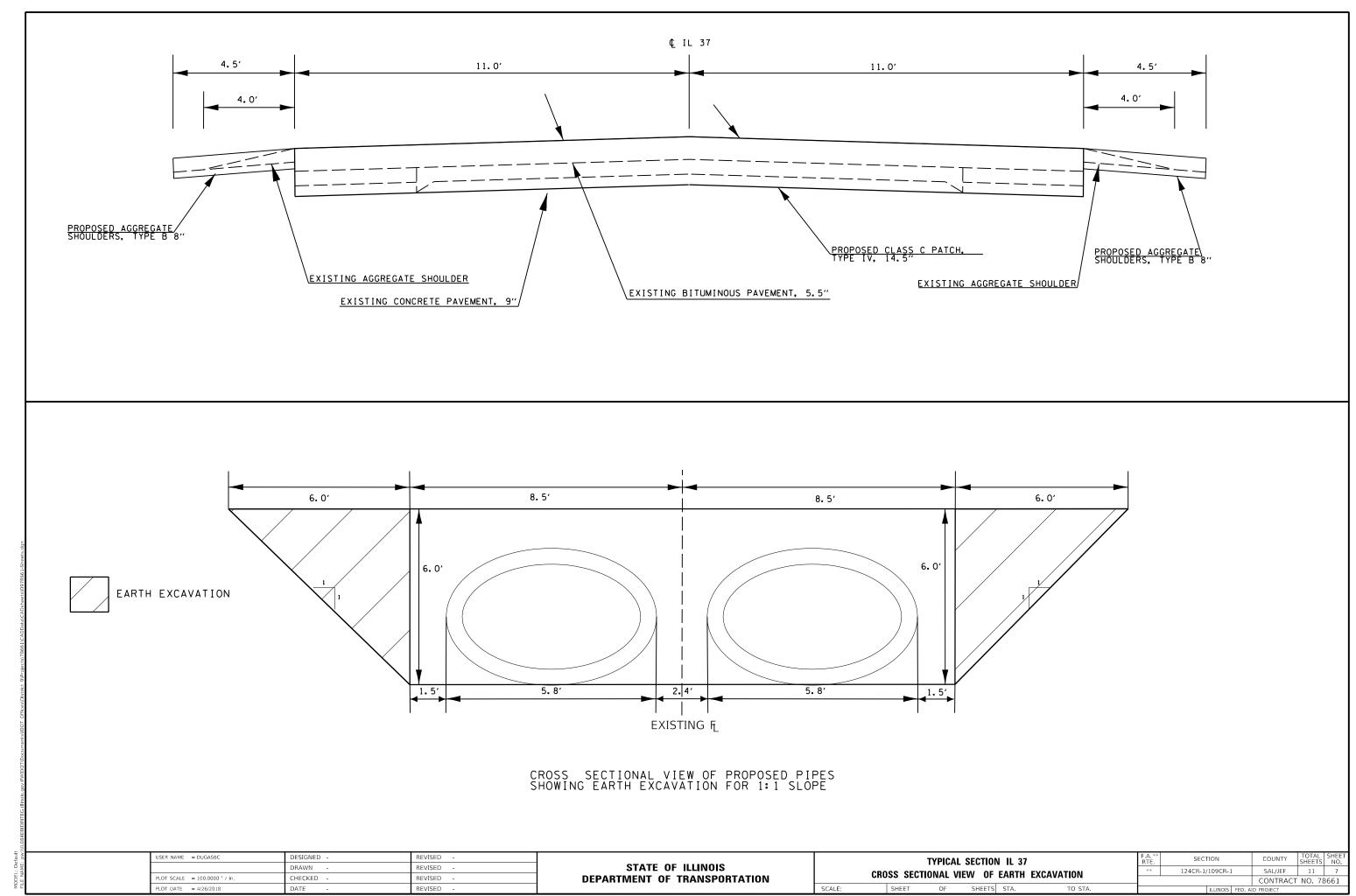
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

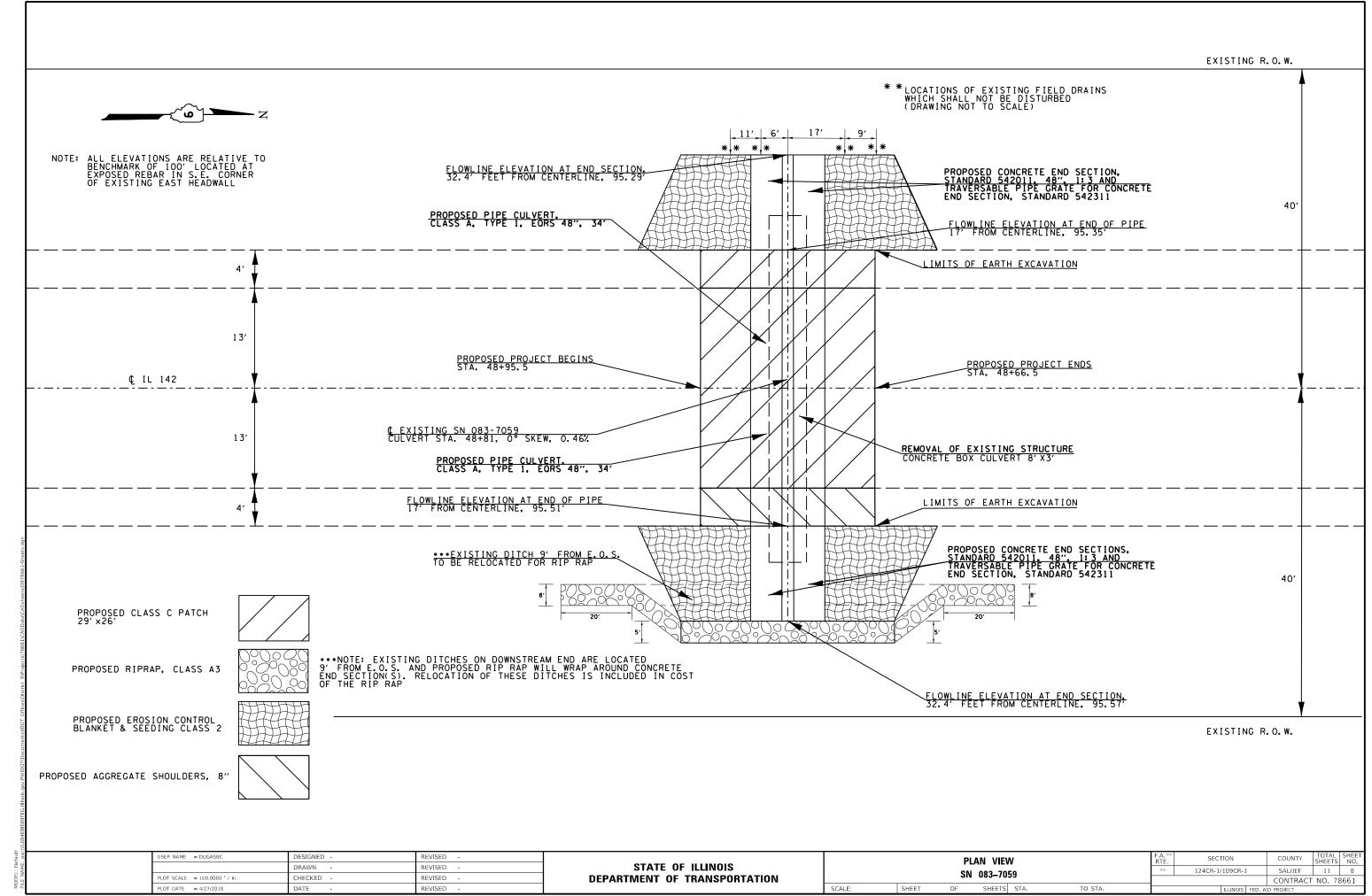
SUMMARY OF QUANTITIES - CONT'D SHEET OF SHEETS STA.

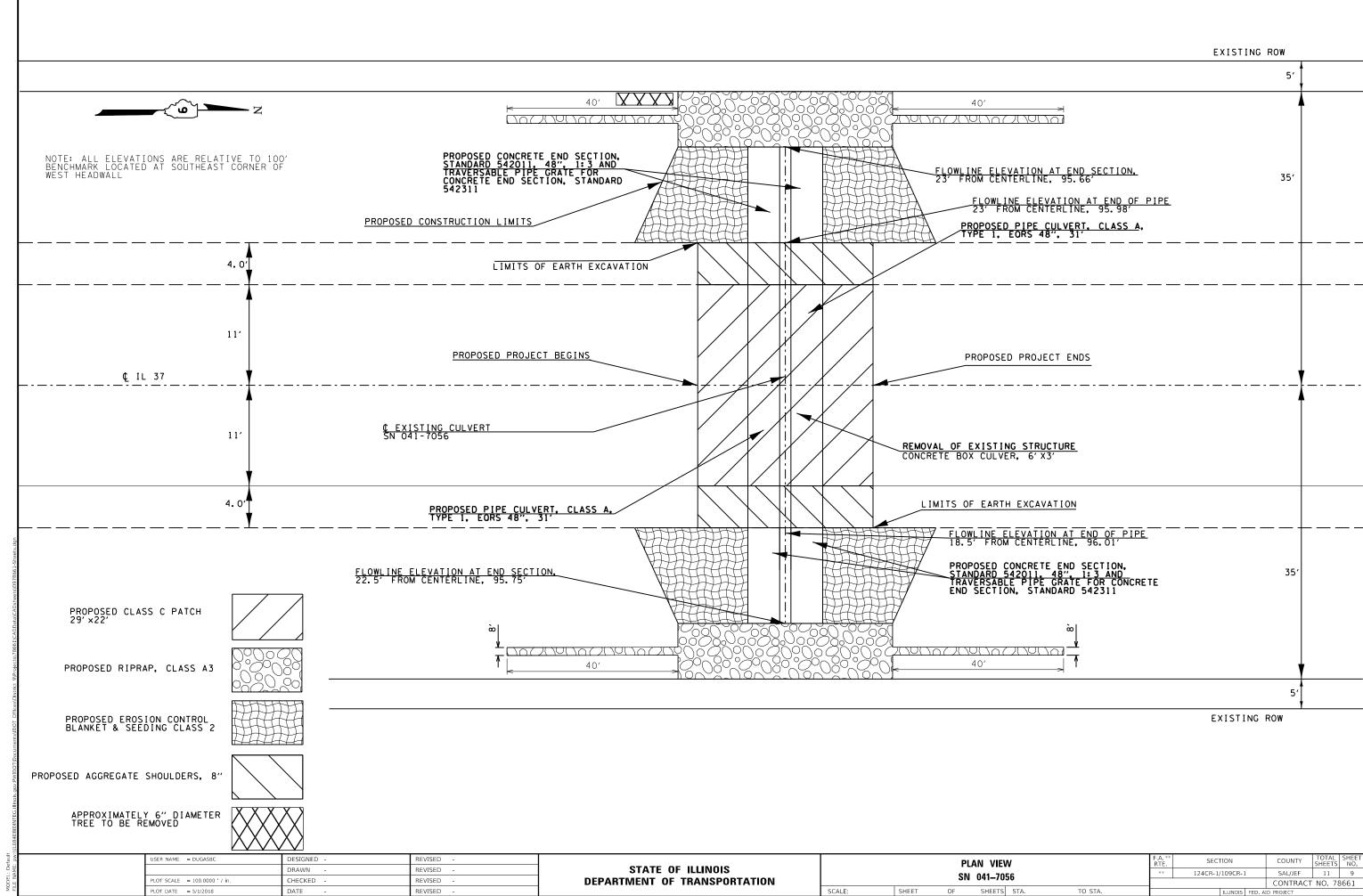
SCALE:

SAL/JEF 11 5 CONTRACT NO. 78661









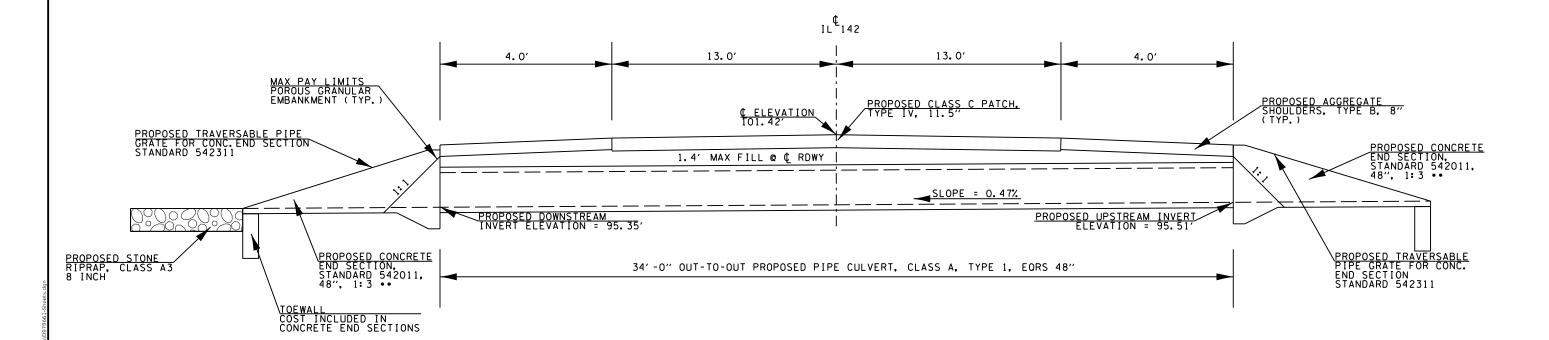
FINAL SECTION

HYDRAULIC DATA

DRAINAGE AREA = 0.21 SO MI
DESIGN WATERWAY OPENING = 25 SO FT
DESIGN DISCHARGE = 95.8 CFS
DESIGN HEADWATER ELEVATION = 98.09 FT
100 YEAR DISCHARGE = 110.4 CFS
100 YEAR HEADWATER ELEVATION = 98.28 FT

•• NOTE: FURNISHED EXCAVATION TO FOLLOW SLOPE OF END SECTION(S) IN AREAS DESIGNATED FOR SEEDING

NOTE: ALL ELEVATIONS ARE RELATIVE TO BENCHMARK OF 100' LOCATED AT EXPOSED REBAR IN S.E. CORNER OF EXISTING EAST HEADWALL





USER NAME = DUGASBC	DESIGNED -	REVISED -				FINA	AL SECTION		F.A.**	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS				IL 142		**	124CR-1/109CR-1	SAL/JEF	11 10
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	IL 142							CONTRACT	NO. 78661
PLOT DATE = 4/30/2018	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.						ILLINOIS FED. A	ID PROJECT	
									** FAP 7	76/FAS 2826	SA	ALINE/JEFFERSON

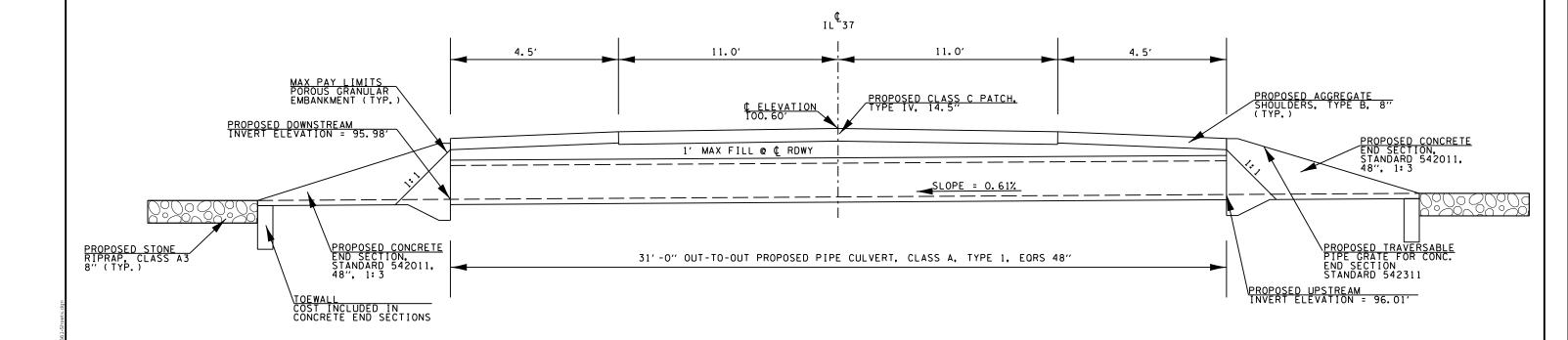
FINAL SECTION

HYDRAULIC DATA

DRAINAGE AREA = 0.11 SO MI
DESIGN WATERWAY OPENING = 25.13 SO FT
DESIGN DISCHARGE = 100.88 CFS
DESIGN HEADWATER ELEVATION = 99.21 FT
100 YEAR DISCHARGE = 118.19 CFS
100 YEAR HEADWATER ELEVATION = 99.61 FT

NOTE: FURNISHED EXCAVATION IS TO FOLLOW SLOPE OF END SECTIONS IN AREAS DESIGNATED FOR SEEDING

NOTE: ALL ELEVATIONS ARE RELATIVE TO BENCHMARK OF 100' LOCATED AT EXPOSED REBAR IN S.E. CORNER OF EXISTING EAST HEADWALL





USER NAME = DUGASBC	DESIGNED -	REVISED -				FIN	AL SECT	UN		F.A.**	SECTION	COUNTY	TOTAL SHEET
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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				IL 3/					CONTRAC	T NO. 78661
PLOT DATE = 5/9/2018	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED	AID PROJECT	