

11-09-2018 LETTING ITEM 095

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED BRIDGE REPLACEMENT

STP-OFF BRIDGE

**TR ROUTE 105 (E 1500 N ROAD)
WILLOW BRANCH TOWNSHIP
SECTION 16-08137-00-BR
PROJECT H10C(072)
PIATT COUNTY**

C-95-314-17

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES AND COMMITMENTS
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- 6 SCHEDULE OF QUANTITIES
- 7 ALIGNMENT, TIES & BENCHMARKS
- 8 PLAN AND PROFILE
- 9 SUGGESTED GRADING & EROSION CONTROL PLAN
- 10-19 BRIDGE PLANS
- 20-24 CROSS SECTIONS

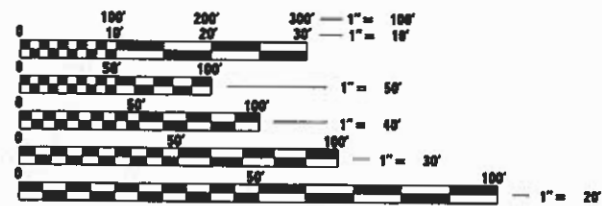
STANDARDS (IN PROPOSAL)

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006-00 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-03 NAME PLATE FOR BRIDGES
- 701901-07 TRAFFIC CONTROL DEVICES
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS



FUNCTIONAL CLASSIFICATION - LOCAL ROAD
ADT = 100
DESIGN SPEED = 30 MPH

PROPOSED SECTION 16-08137-00-BR
BEGINS STA. 99+00.00
ENDS STA. 101+00.00
PROPOSED STRUCTURE NO. 074-3311



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT MANAGER: CORY W. CHAMBERLAIN, P.E., S.E.
CONTRACT NO. 91555

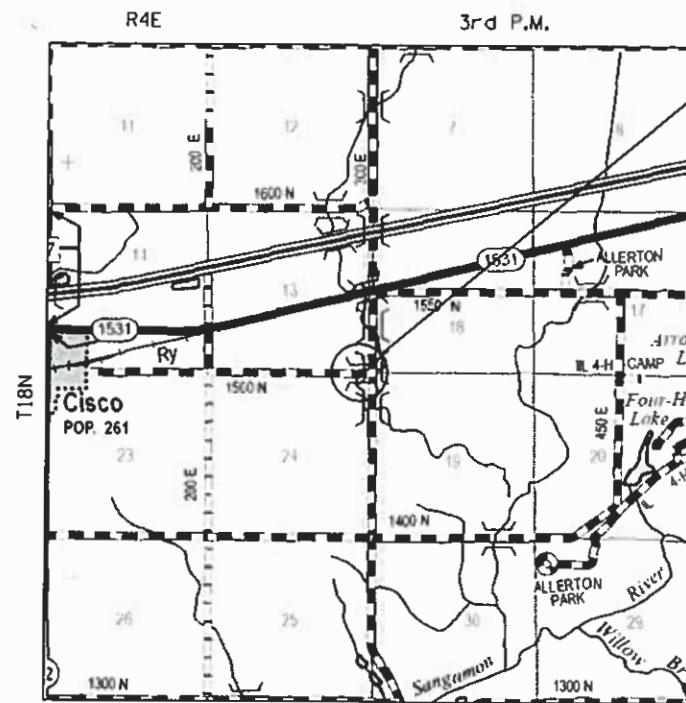


UTILITY COMPANIES:

FRONTIER COMMUNICATIONS
109 E. MARKET ST.
BLOOMINGTON, IL 61701
PHONE: (615) 895-1515
CONTACT: KALIN HINSHAW

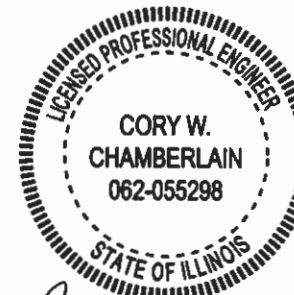
AMEREN IP
1050 WEST BLVD
BELLEVILLE, IL 62221
PHONE: (618) 238-4313
CONTACT: BETHANY TINSLEY

CORN BELT ENERGY CORP.
1 ENERGY WAY
BLOOMINGTON, IL 61705
PHONE: (309) 664-8230
CONTACT: JAMES IVERS



LOCATION MAP

TOTAL LENGTH = 200 FEET (0.038 MI)
NET LENGTH = 200 FEET (0.038 MI)



Cory W. Chamberlain
Expires: 11/30/2019 8-15-2018

APPROVED	<u>DUGUST 16</u> 20 <u>18</u>
	<i>[Signature]</i> COUNTY ENGINEER
APPROVED	<u>08/16</u> 20 <u>18</u>
	<i>[Signature]</i> ROAD COMMISSIONER
PASSED	<u>AUGUST 28</u> 20 <u>18</u>
	<i>[Signature]</i> DISTRICT FIVE ENGINEER OF LOCAL ROADS AND STREETS
Released For Bid Based on Limited Review	<u>August 20</u> 20 <u>18</u>
	<i>[Signature]</i> REGION THREE ENGINEER
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	

THE WORK CONSISTS OF REMOVING THE EXISTING BRIDGE AND CONSTRUCTING A NEW STRUCTURE (S.N. 074-3311) AT STA. 100+00.00 WITH A SINGLE SPAN PRECAST PRESTRESSED REINFORCED DECK BEAM BRIDGE ON CONCRETE PILE BENT ABUTMENTS, 27'-0" CLEAR ROADWAY WIDTH AND 54'-10 3/4" BACK TO BACK OF ABUTMENTS, 15° SKEW, VARIABLE WIDTH TRANSITION APPROACHES AND OTHER COLLATERAL WORK.

GENERAL NOTES

1. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
2. FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
3. ALL ELEVATIONS ARE BASED ON NAVD 88-DATUM.
4. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF CONTRACT ITEMS INVOLVED.
5. THE FOLLOWING APPLICATION RATES HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:
 AGGREGATE BASE COURSE: 2.05 TON/CU YD
 RIPRAP: 1.50 TON/CU YD
6. THE CONTRACTOR'S OPERATIONS AND TEMPORARY STORAGE ACTIVITIES SHALL BE LIMITED TO THE WORK AREA AND/OR CONSTRUCTION LIMITS. ANY ADDITIONAL STAGING AREAS ADJACENT TO THE PROJECT AREA ARE SUBJECT TO PRIOR APPROVAL BY THE ENGINEER AND MUST NOT CONFLICT WITH EXISTING SIDE ROADS, INTERSECTIONS, DRIVEWAYS, OR DRAINAGE. ALL OPERATIONS SHALL BE SUBJECT TO REGULATORY REQUIREMENTS PERMITTED FOR THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR COMPLIANCE WITH THE ABOVE REQUIREMENTS.
7. DISTURBED AREAS SHALL RECEIVE PERMANENT STABILIZATION WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION ACTIVITIES. TEMPORARY STABILIZATION OF WORK AREAS IS REQUIRED FOR ALL AREAS REMAINING UNDISTURBED FOR 14 DAYS, UNLESS WORK RESUMES PRIOR TO 21 DAYS. TEMPORARY STABILIZATION MUST BE APPROVED BY THE ENGINEER.
8. THE CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY OTHER CONSTRUCTION WORK AT THE SITE.
9. THE CONTRACTOR SHALL RELOCATE OR REMOVE AND REPLACE ALL SIGNS THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS AND TEMPORARILY RESET ALL SUCH SIGNS DURING ALL STAGES OF CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE ENGINEER WILL DETERMINE THE PERMANENT LOCATION FOR EXISTING SIGNS TO BE RE-ERECTED. ALL NEW SIGNS WILL BE INSTALLED BY OTHERS.
10. ALL FIELD TILES ENCOUNTERED SHALL BE CAREFULLY PRESERVED AND REPAIRED OR CONNECTED TO THE PROPOSED DRAINAGE STRUCTURES, SEWERS OR DITCHES AS DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS DRAINAGE ITEMS OR AS DIRECTED BY THE ENGINEER.
11. THE LOCATIONS OF EXISTING WATER MAINS, GAS MAINS, SEWERS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE, BUT THEY ARE NOT GUARANTEED, UNLESS ELEVATIONS ARE SHOWN. ALL UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED ON THE APPROXIMATE DEPTH SUPPLIED BY THE UTILITY COMPANY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE UTILITY COMPANIES AND BY FIELD INSPECTION.
12. EMBANKMENTS ON HILLSIDES OR SLOPES SHALL BE CONSTRUCTED ACCORDING TO ARTICLE 205.03.
13. PAVEMENT REMOVAL TO INCLUDE THE EXISTING AGGREGATE BASE COURSE AND OIL AND CHIP SURFACE TREATMENT.

COMMITMENTS

1. NO COMMITMENTS AT THIS TIME.



USER NAME : g.jameson	DESIGNED - BJJ	REVISED
FILE NAME : 0591955-ehc-gennote.dgn	CHECKED - RKA	REVISED
PLOT SCALE : 100.0000' / IN.	DRAWN - GSJ	REVISED
PLOT DATE : 8/21/2016	CHECKED - BJJ	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES AND COMMITMENTS

SCALE: SHEET NO. 1 OF 1 SHEETS

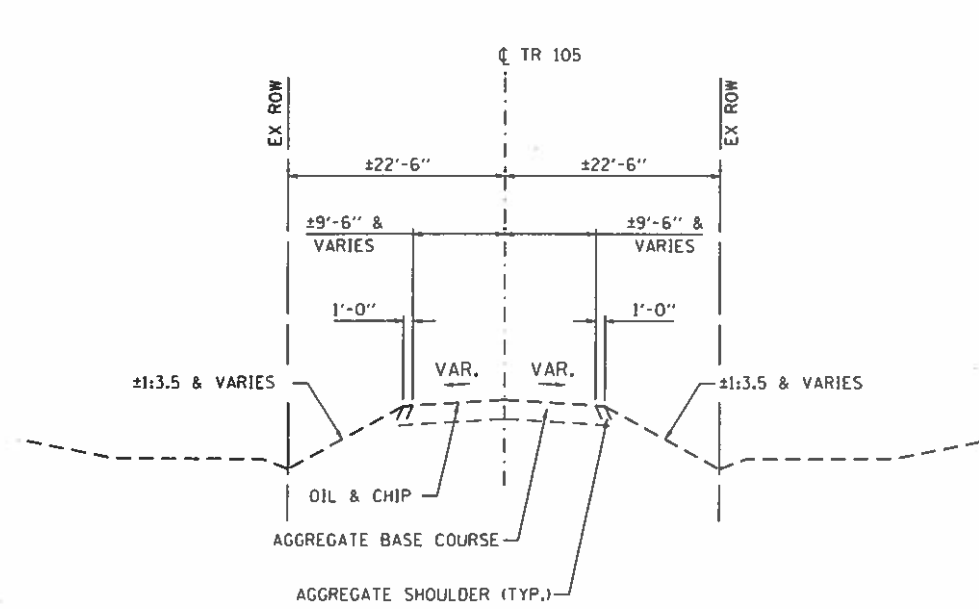
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105	16-08137-00-BR	PIATT	24	2
			CONTRACT NO. 91555	

ILLINOIS FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	60
20200100	EARTH EXCAVATION	CU YD	19
20300100	CHANNEL EXCAVATION	CU YD	291
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	25
28000400	PERIMETER EROSION BARRIER	FOOT	282
28100109	STONE RIPRAP, CLASS A5	SQ YD	427
28200200	FILTER FABRIC	SQ YD	427
35101400	AGGREGATE BASE COURSE, TYPE B	TON	182
44000100	PAVEMENT REMOVAL	SQ YD	325
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	78
50300225	CONCRETE STRUCTURES	CU YD	26.8
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	1431
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3720

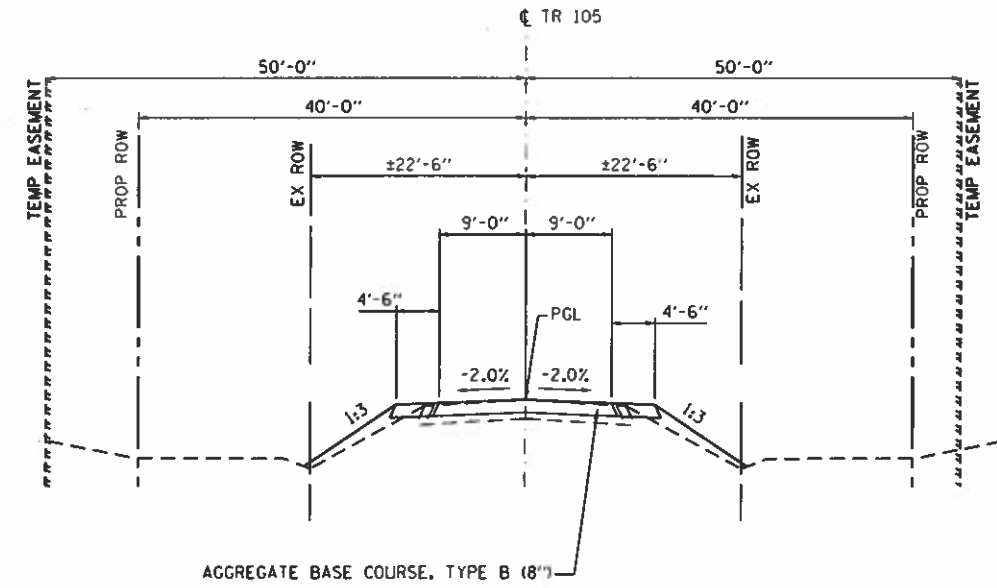
CODE NO.	ITEM	UNIT	TOTAL QUANTITY
Δ 50901050	STEEL RAILING, TYPE SM	FOOT	106
51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	200
51202305	DRIVING PILES	FOOT	200
51203200	TEST PILE METAL SHELLS	EACH	2
51500100	NAME PLATES	EACH	1
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	44.4
67100100	MOBILIZATION	L SUM	1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
Δ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.25

Δ SPECIALTY ITEMS



EXISTING TYPICAL SECTION

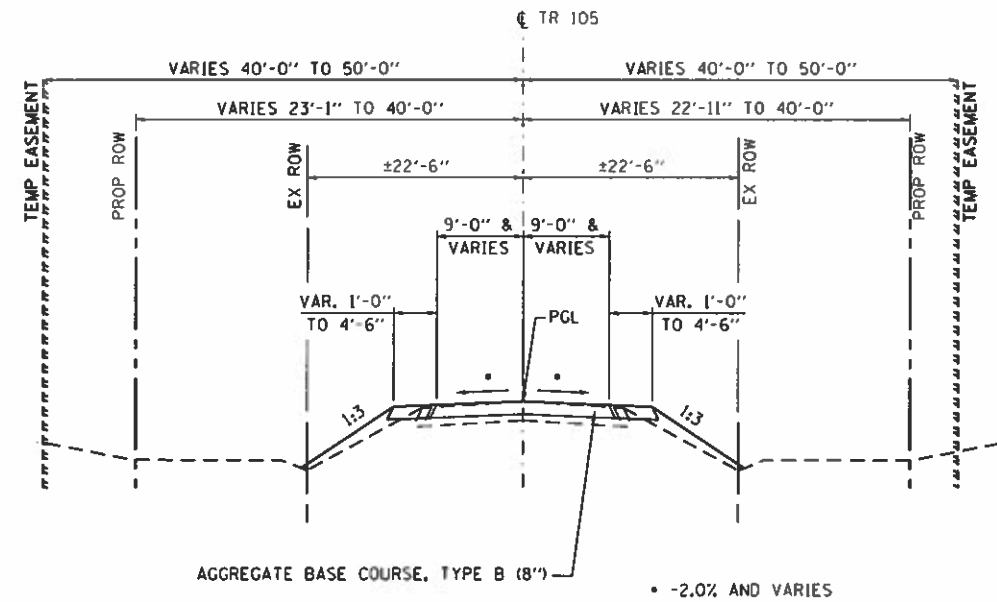
STA. 99+00.00 TO STA. 99+84.00
 STA. 100+10.00 TO STA. 101+00.00
 (LOOKING EAST)



PROPOSED TYPICAL SECTION

STA. 99+65.00 TO STA. 99+72.55
 STA. 100+27.45 TO STA. 100+35.00
 (LOOKING EAST)

BRIDGE OMISSION:
 STA. 99+72.55 TO STA. 100+27.45



PROPOSED TYPICAL SECTION

STA. 99+00.00 TO STA. 99+65.00
 STA. 100+35.00 TO STA. 101+00.00
 (LOOKING EAST)

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105	16-08137-00-BR	PIATT	24	5
CONTRACT NO. 91555				
ILLINOIS FED. AID PROJECT				

LOCATION	20200100	20300100	FOR INFORMATIONAL ONLY		
	EARTH EXCAVATION	CHANNEL EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) (EXC. x 0.75)	EMBANKMENT (FILL)	EARTHWORK BALANCE WASTE(+) AND SHORTAGE (-)
	CU. YD.	CU. YD.	CU. YD.	CU. YD.	CU. YD.
STA. 99+00.00 TO STA. 99+72.55	9		7	44	-37
STA. 99+72.55 TO STA. 100+27.45		291	+109	26	+83
STA. 100+27.45 TO STA. 101+00	10		6	34	-28
TOTAL	19	291	122	104	+18

• ASSUMES 50% OF THE CHANNEL EXCAVATION IS SUITABLE FOR EMBANKMENT.

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

TR 105	UNIT
18' RT 99+60.00	60
TOTAL	60

44000100 PAVEMENT REMOVAL

TR 105	SQ YD
CL 99+00.00 TO CL 99+83.90	163
CL 100+09.60 TO CL 101+00.00	162
TOTAL	325

28000250 TEMPORARY EROSION CONTROL SEEDING

TR 105	POUND
RT 99+00.00 TO RT 99+65.00	2
RT 100+18.00 TO RT 101+00.00	2
LT 99+00.00 TO LT 99+83.00	2
LT 100+35.00 TO LT 101+00.00	1
TOTAL	25

67100100 MOBILIZATION

TR 105	L SUM
TOTAL	1

28000400 PERIMETER EROSION BARRIER

TR 105	FOOT
LT 99+00.00 TO LT 99+67.00	71
LT 100+42.00 TO LT 101+00.00	60
RT 99+00.00 TO RT 99+62.00	66
RT 100+17.00 TO RT 101+00.00	85
TOTAL	282

70101830 TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21

TR 105	L SUM
TOTAL	1

35101400 AGGREGATE BASE COURSE, TYPE B

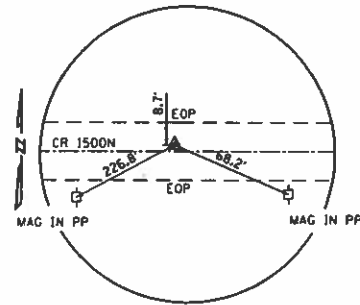
TR 105	TON
CL 99+00.00 TO CL 99+65.00	82
CL 99+65.00 TO CL 99+72.55	11
CL 100+27.45 TO CL 100+35.00	11
CL 100+35.00 TO CL 101+00.00	78
TOTAL	182

72501000 TERMINAL MARKER - DIRECT APPLIED

TR 105	EACH
LT 99+74.30	1
LT 100+33.10	1
RT 99+66.80	1
RT 100+25.70	1
TOTAL	4

X2501000 SEEDING, CLASS 2 (SPECIAL)

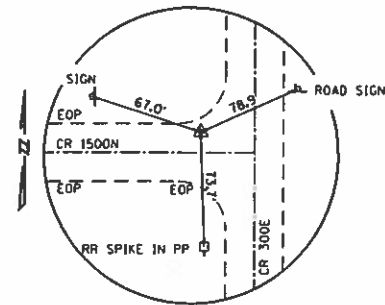
TR 105	ACRE
RT 99+00.00 TO RT 99+65.00	0.02
RT 100+18.00 TO RT 101+00.00	0.02
LT 99+00.00 TO LT 99+83.00	0.02
LT 100+35.00 TO LT 101+00.00	0.01
TOTAL	0.25



CONTROL POINT #101

SET #5 BAR WITH RED CAP

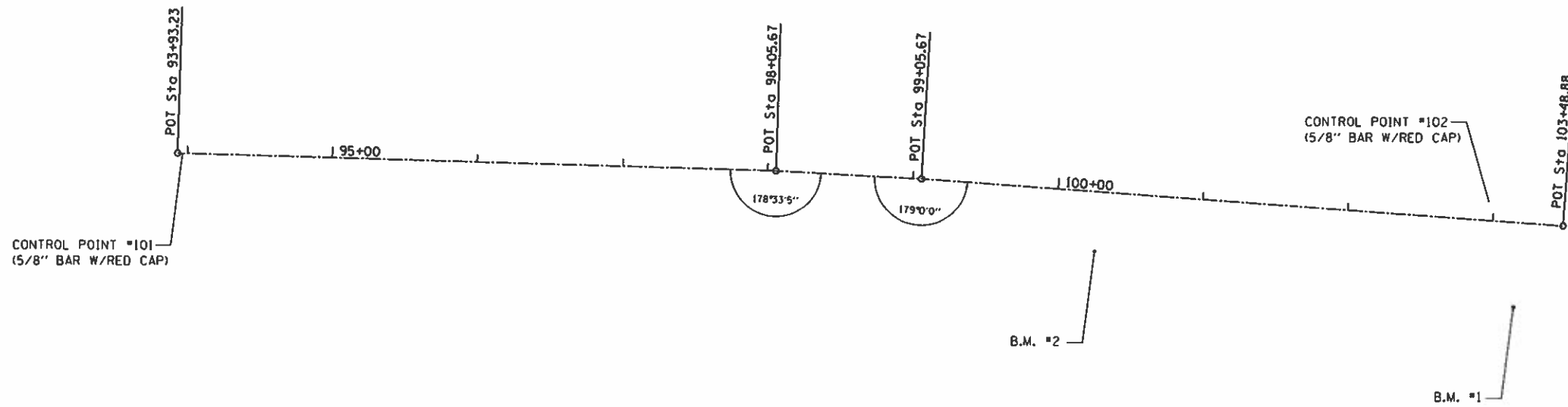
STA. 93+96.61, 0.33' LT
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 E 883924.207



CONTROL POINT #102

SET #5 BAR WITH RED CAP

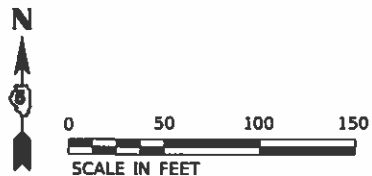
STA. 102+96.43, 12.47' LT
 N 1218096.608
 E 884823.632



ALIGNMENT COORDINATES TR 105			
POINT	STATION	N	E
POINT CLO06	93+93.23	1,218,128.538	883,920.823
POINT CLO01	98+05.67	1,218,117.046	884,333.107
POINT CLO02	99+05.67	1,218,111.734	884,432.966
POINT CLO05	103+48.88	1,218,080.469	884,875.064

B.M. #2 STA. 100+28.00, 40.94' RT
 R.R. SPIKE IN NORTH FACE OF WOOD POWER POLE
 ELEVATION = 667.16

B.M. #1 STA. 103+18.50, 58.16' RT
 R.R. SPIKE IN NORTH FACE OF WOOD POWER POLE
 ELEVATION = 675.55



design firm
no. 184001036



USER NAME : g.joneson	DESIGNED : TJZ	REVISED
FILE NAME : 0691555-ah1-A18.dgn	CHECKED : CWC	REVISED
PLOT SCALE : 100.0000' / IN.	DRAWN : GSJ	REVISED
PLOT DATE : 8/22/2018	CHECKED : TJZ	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES & BENCHMARKS

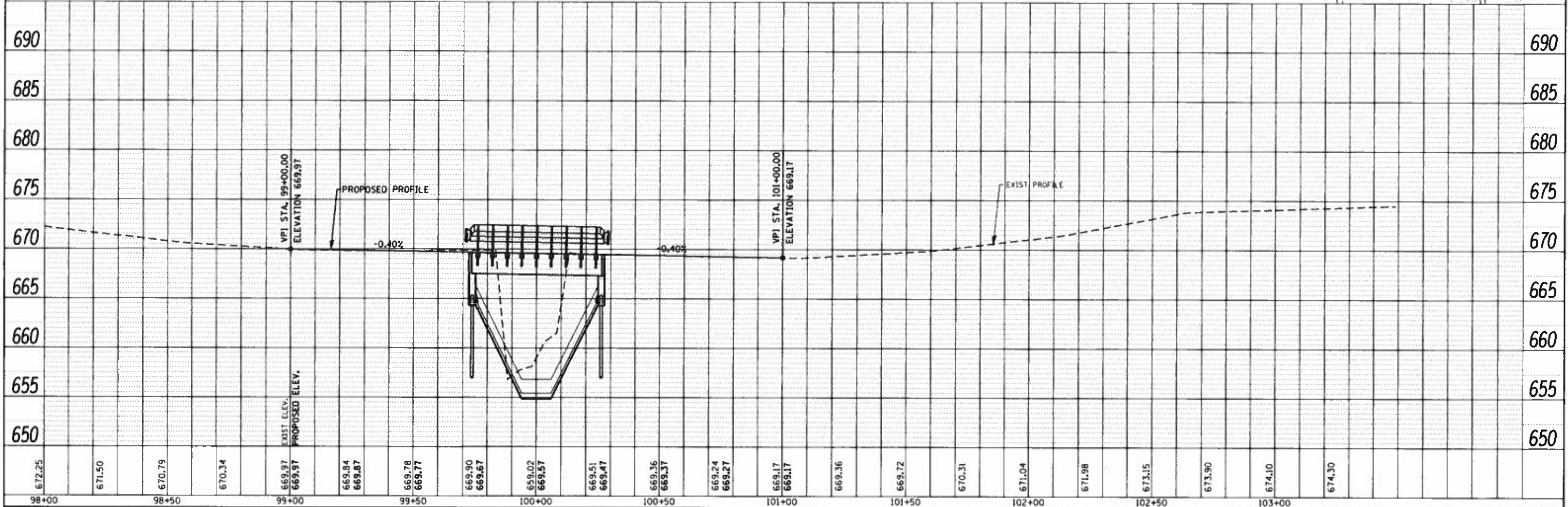
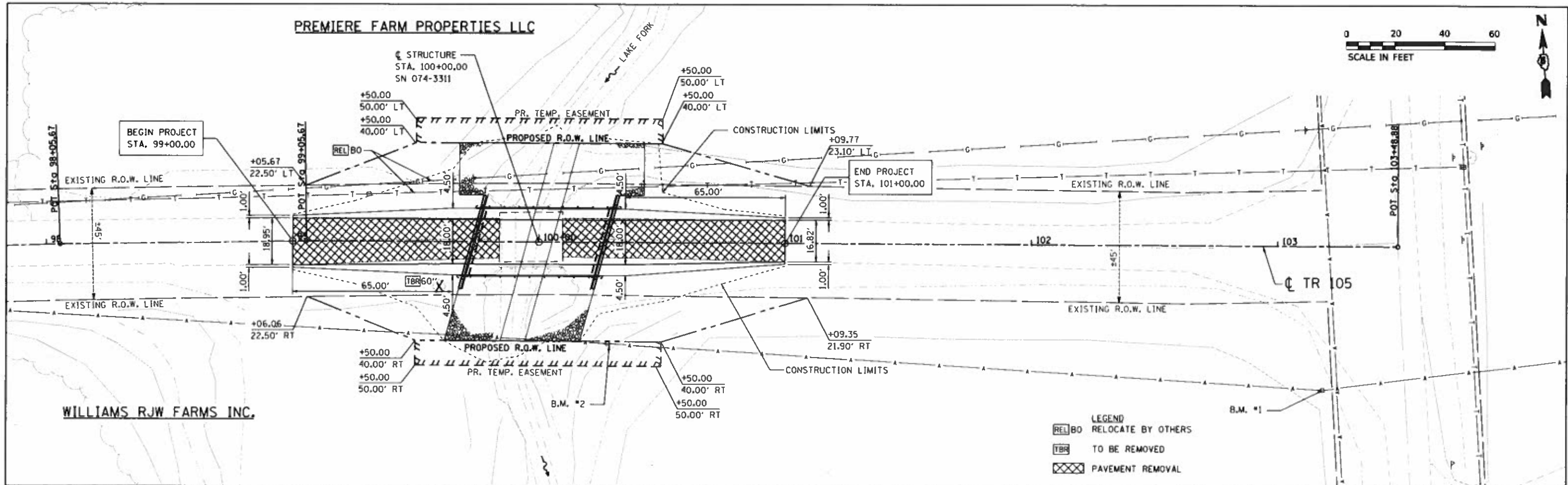
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TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
105	16-08137-00-BR	PIATT	24	7
				CONTRACT NO. 91555

ILLINOIS FED. AID PROJECT

PLAN
 SURVEYED BY: _____ DATE: _____
 AS NOTED BY: _____
 CHECKED BY: _____
 DATE: _____
 FILE NAME: _____

PROFILE
 SURVEYED BY: _____ DATE: _____
 AS NOTED BY: _____
 CHECKED BY: _____
 DATE: _____
 FILE NAME: _____



design firm
 no. 184001038
whks
 engineers • planners • land surveyors

USER NAME: g.jameson	DESIGNED: -	REVISED: -
FILE NAME: 0591595-shr-plan-r.dgn	CHECKED: -	REVISED: -
PLOT SCALE: 48,888' / IN.	DRAWN: -	REVISED: -
PLOT DATE: 8/21/2018	CHECKED: -	REVISED: -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
 SCALE: 1" = 20'
 SHEET NO. 1 OF 1 SHEETS
 STA. 98+00.00 TO STA. 101+00.00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
105	16-08137-00-BR	PIATT	24	8
CONTRACT NO. 91555			ILLINOIS FED. AID PROJECT	



PREMIERE FARM PROPERTIES LLC

NOTE:
GRADING PLAN MAY BE VARIED IN THE FIELD TO SUIT
ACTUAL FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

BEGIN PROJECT
STA. 99+00.00

END PROJECT
STA. 101+00.00

PERIMETER EROSION
BARRIER, TYP

PR. TEMP. EASEMENT

PROPOSED R.O.W. LINE

PROPOSED R.O.W. LINE

PR. TEMP. EASEMENTS

PERIMETER EROSION BARRIER

TR 105

WILLIAMS RJW FARMS INC.

Design firm
no. 184001036



USER NAME	DESIGNED	REVISED
FILE NAME	CHECKED	REVISED
PLOT SCALE	DRAWN	REVISED
PLOT DATE	CHECKED	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED GRADING & EROSION CONTROL PLAN

SCALE: 1" = 10' SHEET NO. 1 OF 1 SHEETS

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
105	16-08137-00-BR	PIATT	24	9
			CONTRACT NO. 91555	

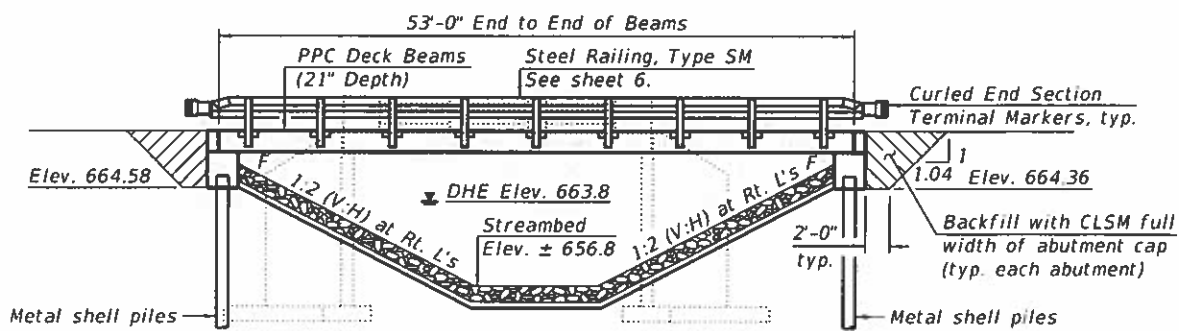
ILLINOIS FED. AID PROJECT

LAST SAVED DATE 8/22/2018

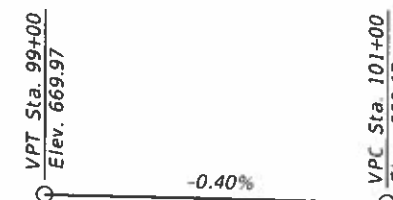
Benchmark: BM #2 RR Spike set in North face of power pole 53' SE bridge, Elev. 667.16.

Existing Structure: SN 074-3074 was constructed in 1943 as a single span concrete slab bridge with concrete railing on closed concrete abutments and wingwalls founded on spread footings. The bridge measures 26'-0" back-to-back of abutments and 24'-3" out-to-out. Structure is to be removed and replaced. Road is to be closed during construction.

Salvage: No salvage.



ELEVATION



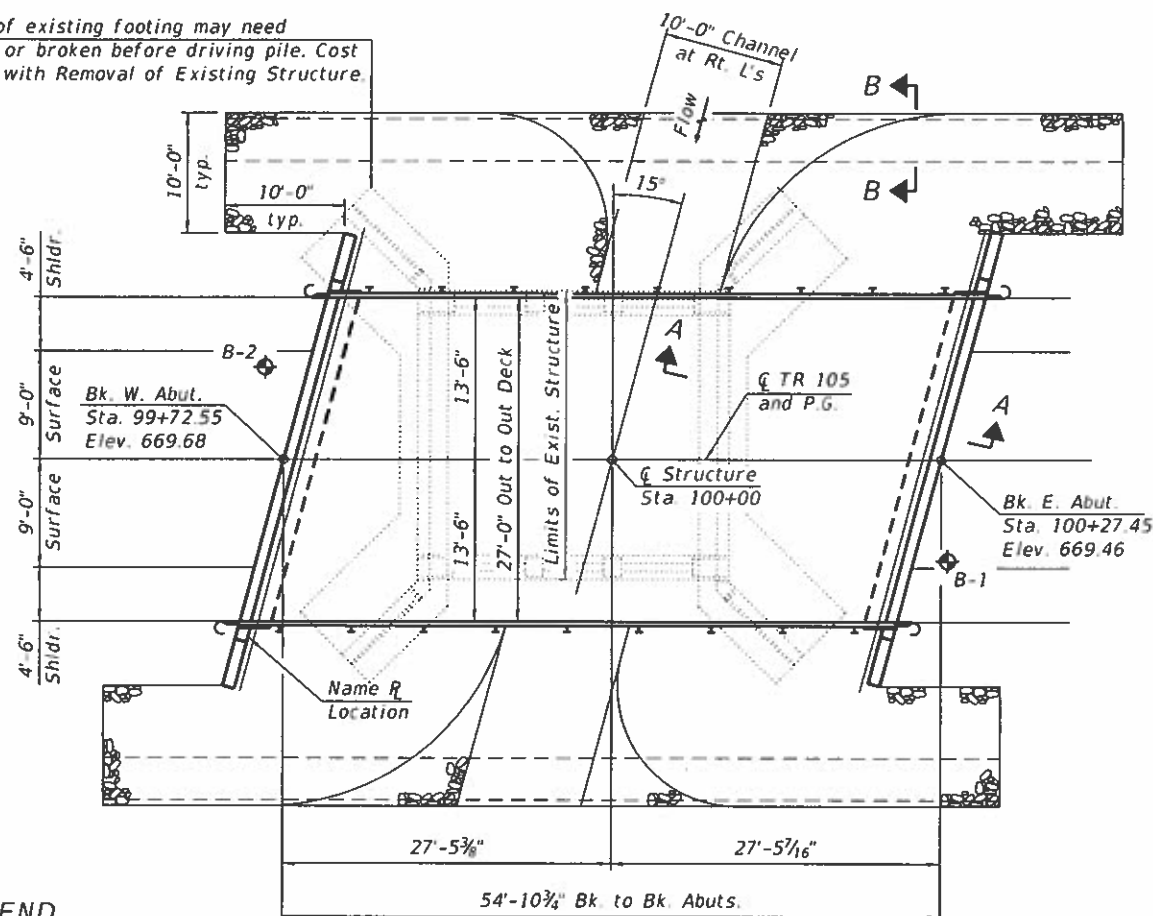
PROPOSED PROFILE GRADE (Along & TR 105)

INDEX OF SHEETS

1. General Plan & Elevation
2. General Data
- 3-4. 21" x 36" PPC Deck Beam Details
5. Superstructure Details
6. Steel Railing, Type SM
7. West Abutment
8. East Abutment
9. Metal Shell Piles
10. Soil Borings



Portion of existing footing may need removed or broken before driving pile. Cost included with Removal of Existing Structure.



PLAN

Note: See sheet 2 for Sections A-A and B-B.

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications 8th Edition

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

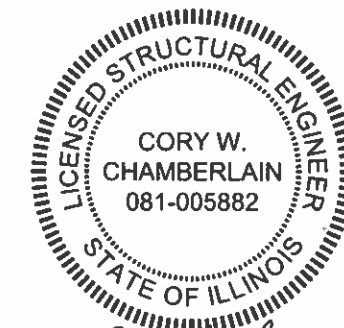
f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)

PRECAST UNITS

f'c = 6,000 psi
 f'ci = 5,000 psi
 f'pu = 270,000 psi (1/2" low lax strands)
 f'pbt = 201,960 psi (1/2" low lax strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S01) = 0.150g
 Design Spectral Acceleration at 0.2 sec. (S05) = 0.283g
 Soil Site Class = D



Cory W. Chamberlain 8-13-2018
 Expires: 11/30/2018

I certify that to the best of knowledge, information and belief, this Bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO LRFD Bridge Design Specifications.

LEGEND

Soil Boring Location

WATERWAY INFORMATION TABLE

Flood		Q		Opening Sq. Ft.		Nat. H.W.E		Head - Ft.		Headwater Elev.	
Yr.	C.F.S.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	15	835	130	150	663.8	0.8	0.3	664.6	664.1		
Base	100	1330	156	200	665.3	1.3	0.4	666.6	665.7		
Max. Calc.	500	1770	173	234	666.3	1.9	0.5	668.2	666.8		

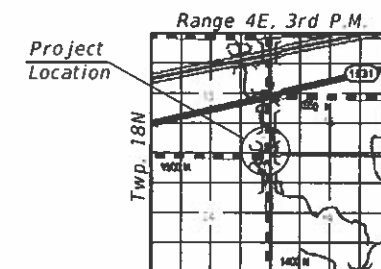
Exist. Low Grade Elev. = 669.19 at Sta. 100+58
 Prop. Low Grade Elev. = 669.19 at Sta. 100+58
 Drainage Area = 7.33 sq. mi.

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elev. (ft.)		Item 113
	W. Abut.	E. Abut.	
Q100	-	-	8
Q200	-	-	
Design	664.58	664.36	
Check	664.58	664.36	

LAKE FORK
 BUILT 20 BY
 PIATT COUNTY
 SEC. 16-08137-00-BR
 STA. 100+00
 STR. NO. 074-3311 LOADING HL93

NAME PLATE
 See Std. 515001



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
 TR 105 (1500N) OVER LAKE FORK
 SECTION 16-08137-00-BR
 PIATT COUNTY
 STATION 100+00
 STRUCTURE NO. 074-3311

FILE NAME L:\Jobs\Platt County\B254 - TR 105\CADD\CADD Sheets\074-3311-00000.dgn



USER NAME = dhaberling	DESIGNED - CWC	REVISED
FILE NAME = 074-3311-00000.dgn	CHECKED - SBC	REVISED
PLOT SCALE = 8/2" = 1/4"	DRAWN - DLH	REVISED
PLOT DATE = 8/22/2018	CHECKED - CWC	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
105	16-08137-00-BR	PIATT	24	10

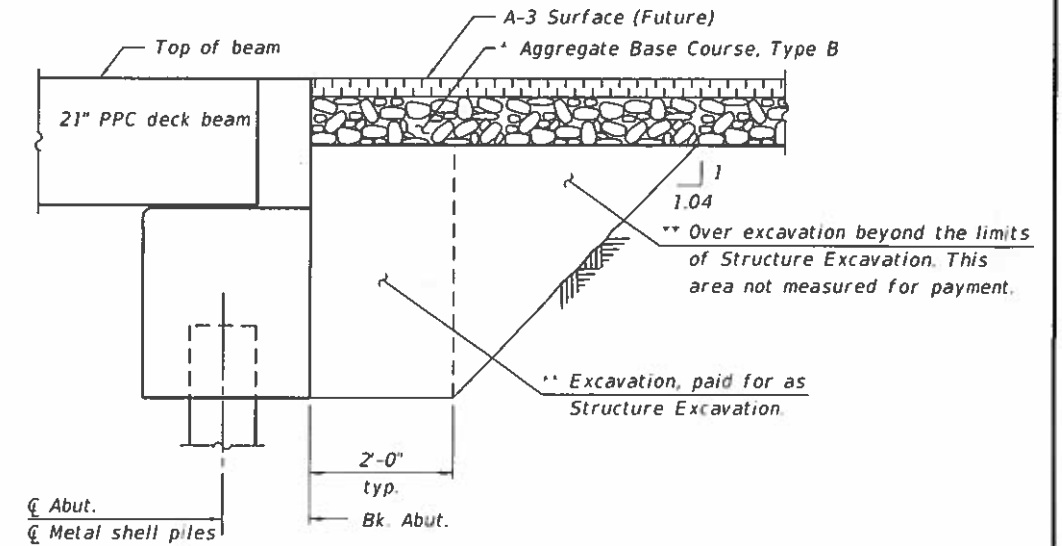
CONTRACT NO. 91555

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		291	291
Stone Riprap, Class A5	Sq. Yd.		427	427
Filter Fabric	Sq. Yd.		427	427
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		78	78
Concrete Structures	Cu. Yd.		26.8	26.8
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	1,431		1,431
Reinforcement Bars, Epoxy Coated	Pound		3,720	3,720
Steel Railing, Type SM	Foot	106		106
Furnishing Metal Shell Piles 12" x 0.250"	Foot		200	200
Driving Piles	Foot		200	200
Test Pile Metal Shells	Each		2	2
Name Plates	Each	1		1
Controlled Low-Strength Material	Cu. Yd.		44.4	44.4
Terminal Marker, Direct Applied	Each	4		4

GENERAL NOTES

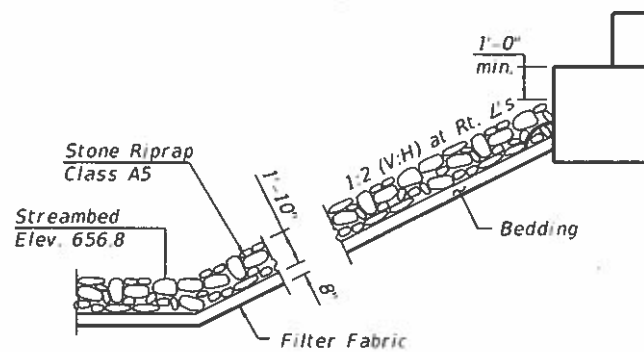
1. Reinforcement bars designated (E) shall be epoxy coated.
2. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.



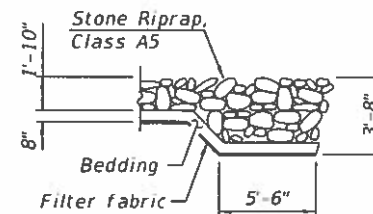
SECTION AT ABUTMENT

(Dimensions are at Rt. L's)

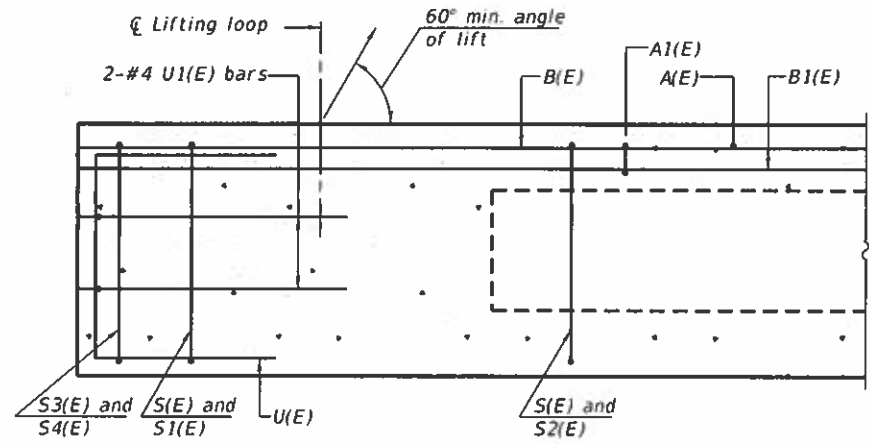
- * See roadway plans
- ** Backfill with Controlled Low-Strength Material (CLSM) (Mix 2).



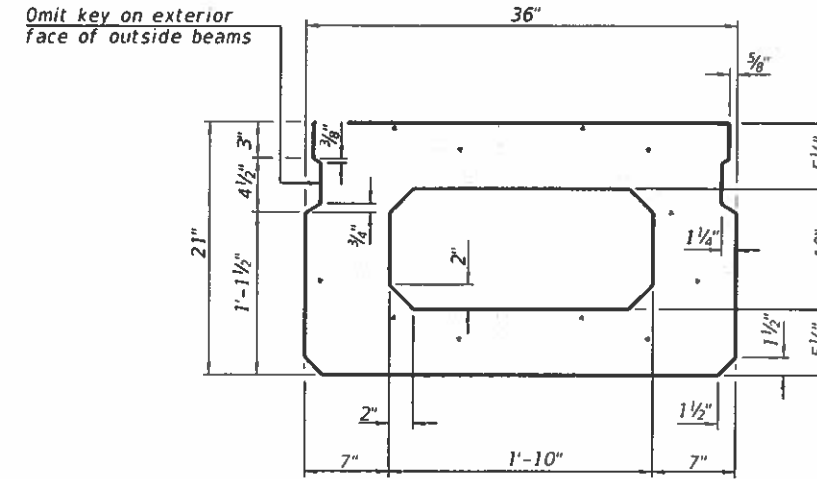
SECTION A-A



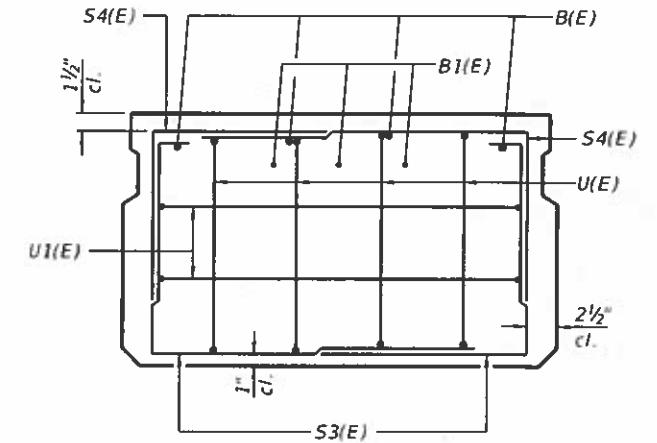
SECTION B-B



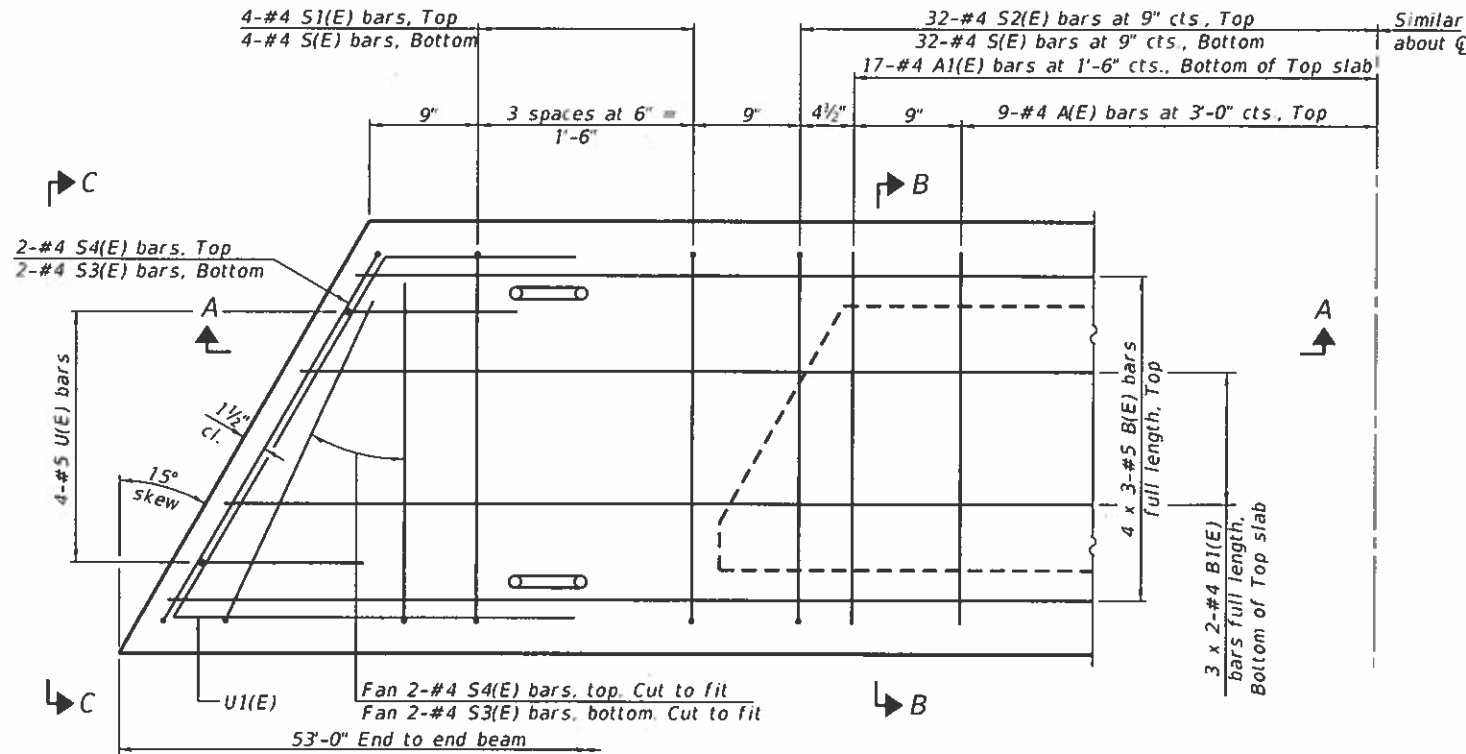
SECTION A-A



SECTION B-B
(Showing dimensions)

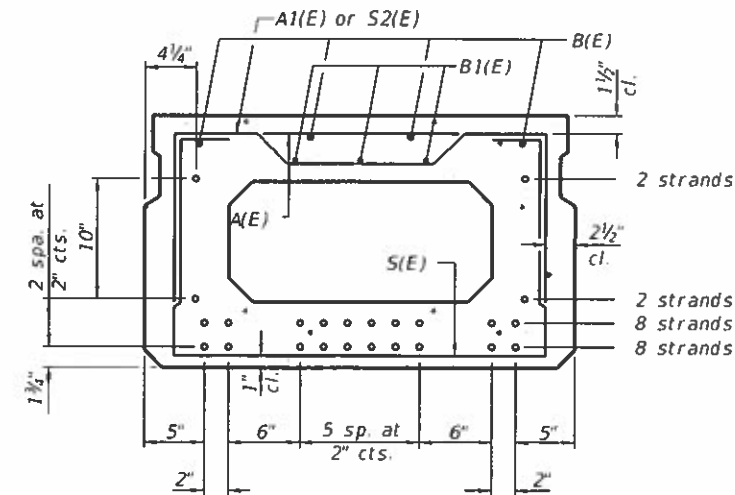


VIEW C-C



PLAN VIEW

Note:
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



SECTION B-B
(Showing reinforcement and permissible strand locations)

Note:
Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	18	#4	2'-7"	—
A1(E)	34	#4	2'-10"	—
B(E)	12	#5	19'-3"	—
B1(E)	6	#4	27'-4"	—
S(E)	72	#4	6'-5"	⌊
S1(E)	8	#4	4'-11"	⌊
S2(E)	64	#4	5'-2"	⌊
S3(E)	8	#4	4'-7"	⌊
S4(E)	8	#4	3'-10"	⌊
U(E)	8	#5	4'-0"	⌊
U1(E)	4	#4	5'-9"	⌊

Note:
See sheet 4 for additional details and Bill of Material.

MINIMUM BAR LAP

#4 bar = 1'-11"
#5 bar = 2'-6"

PD-2136-L

2-17-2017

Design firm
no. 16400736
whks
Progress • Planning • Development

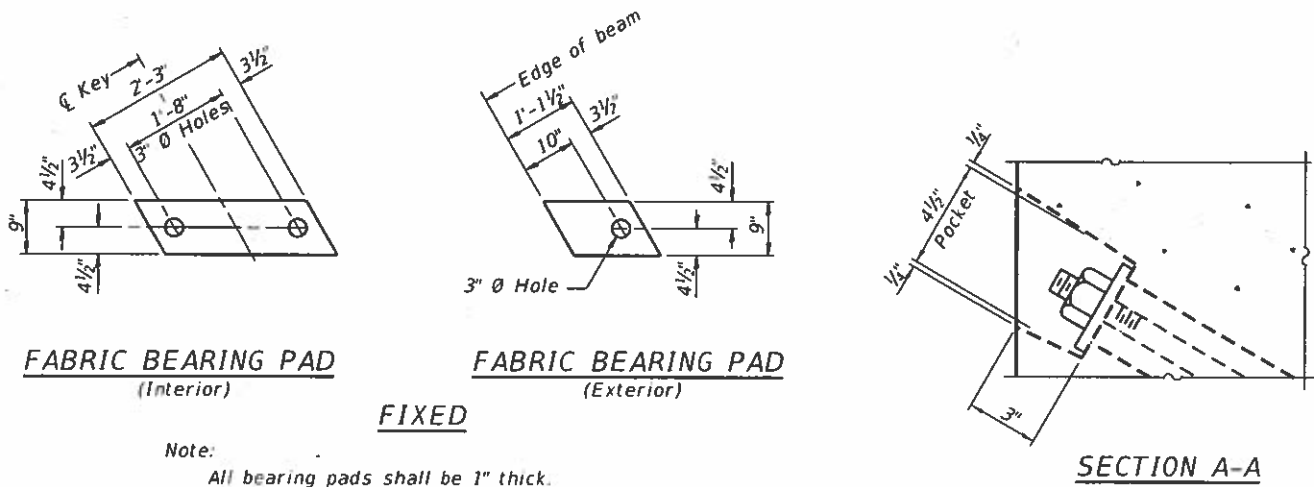
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PLOT DATE = 8/22/2018	CHECKED = CWC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

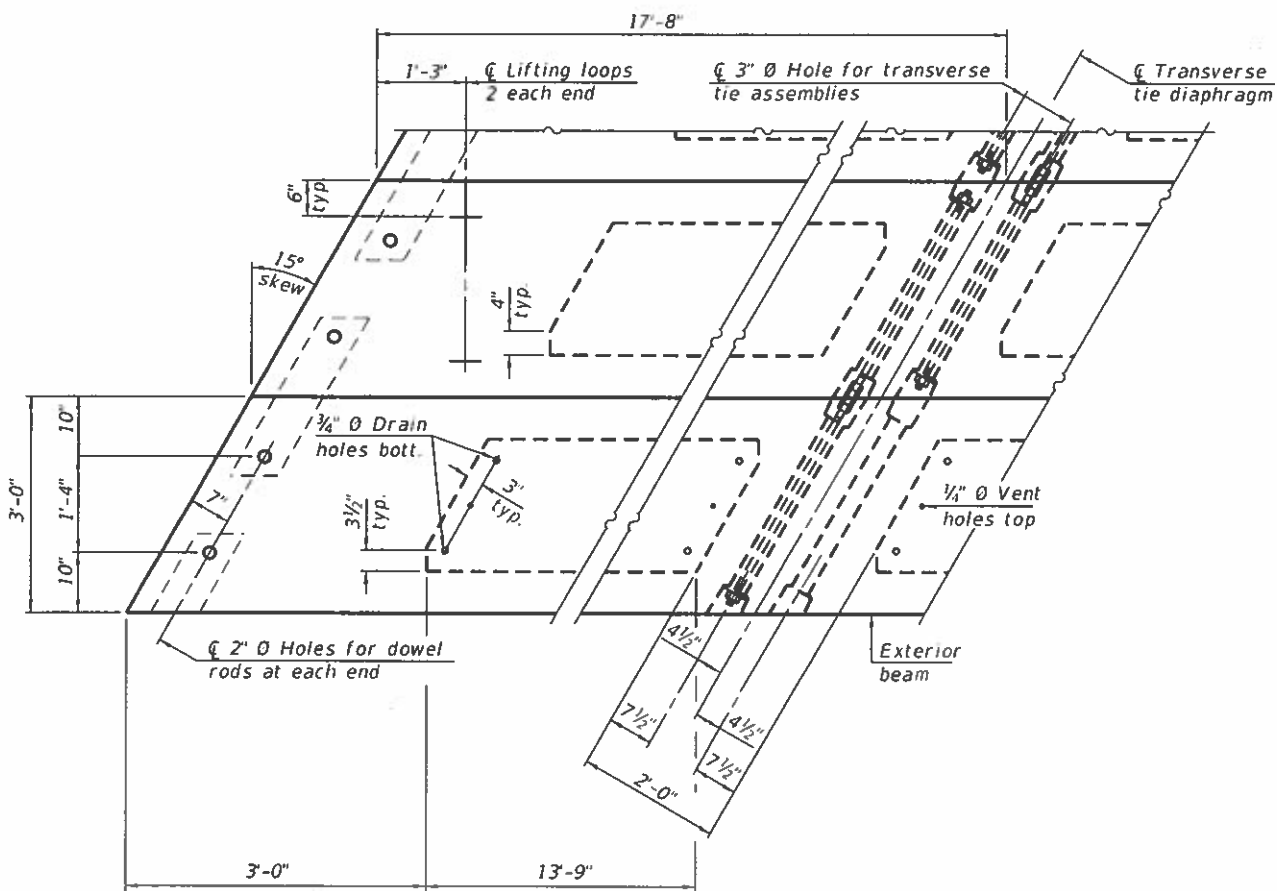
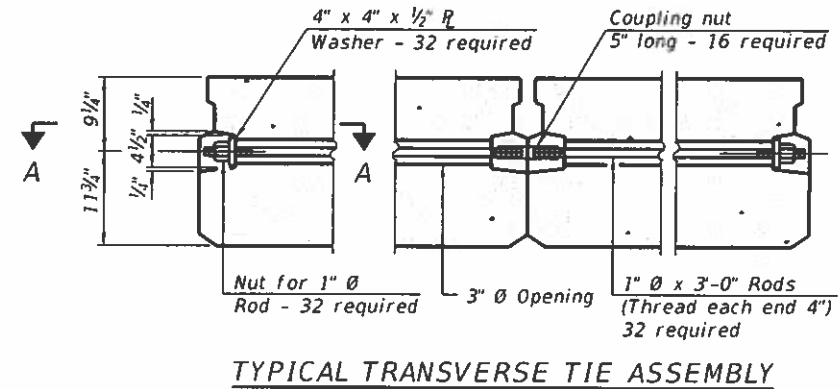
21" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 074-3311

SHEET NO. 3 OF 10 SHEETS

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
105	16-08137-00-BR	PIATT	24	12
				CONTRACT NO. 91555



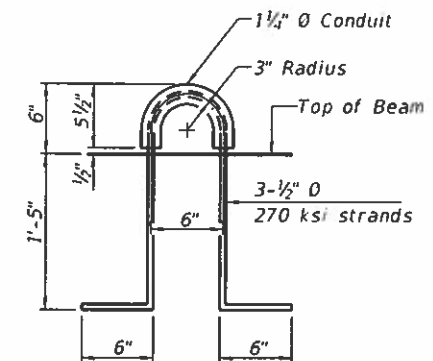
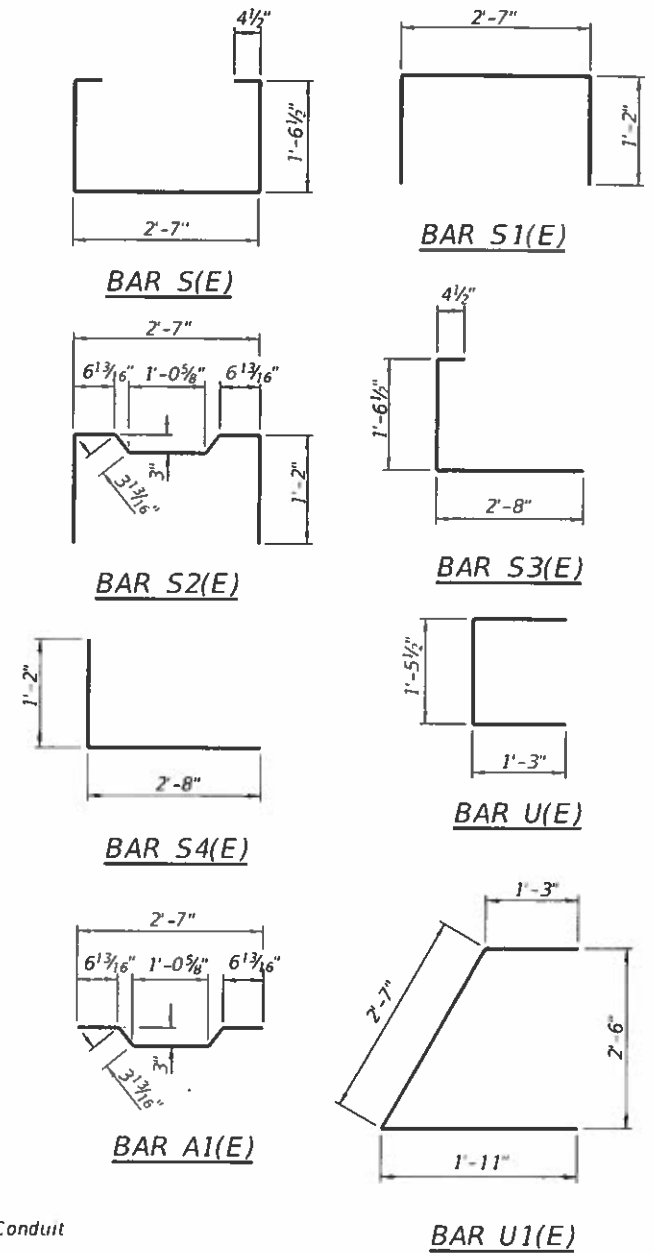
Note:
All bearing pads shall be 1" thick.



Note:
Connect beams in pairs with the transverse tie configuration shown.

NOTES

1. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
2. The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
3. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
4. A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling.
5. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
6. Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
7. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.



BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1,431
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PD-2136-LD 2-17-2017



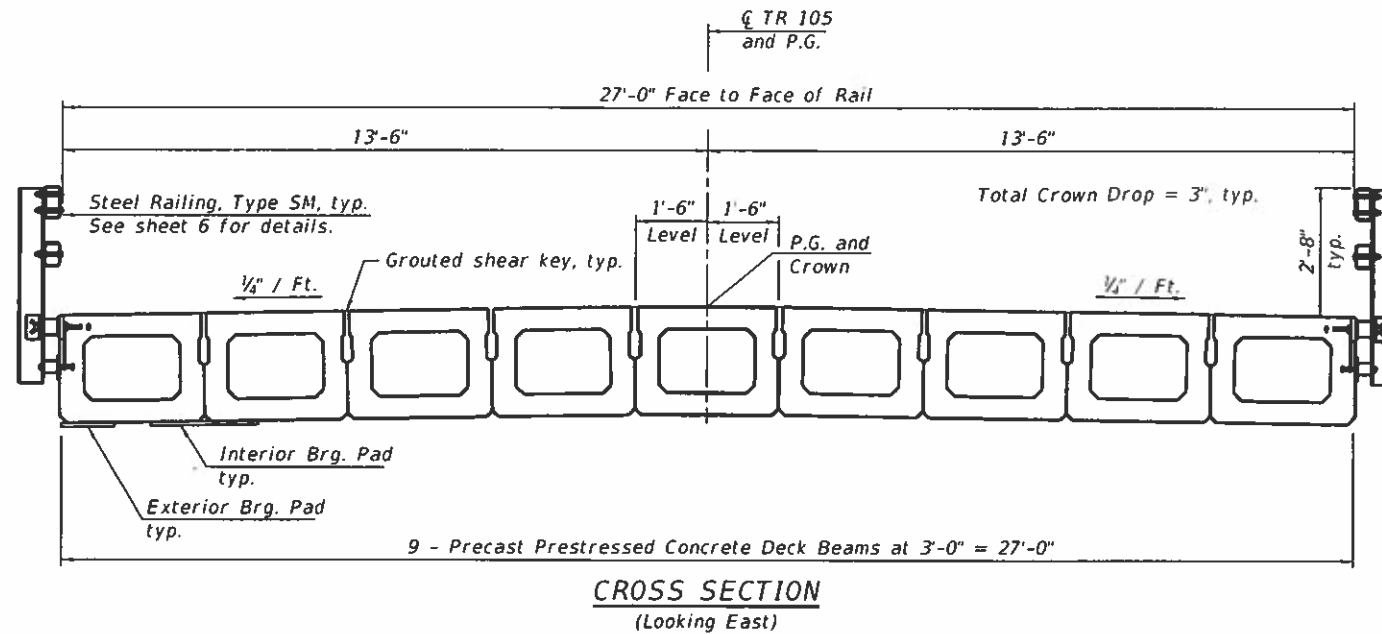
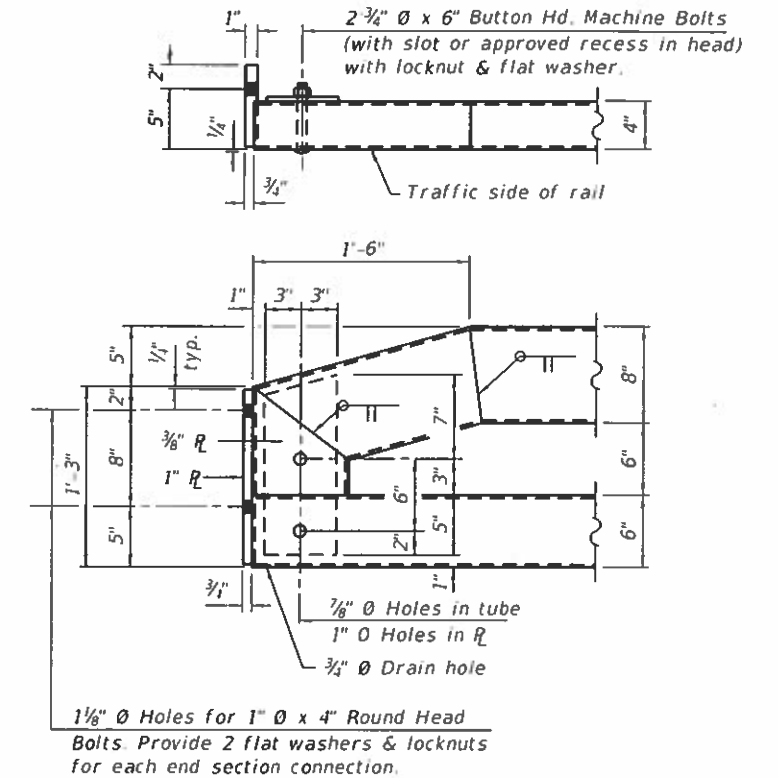
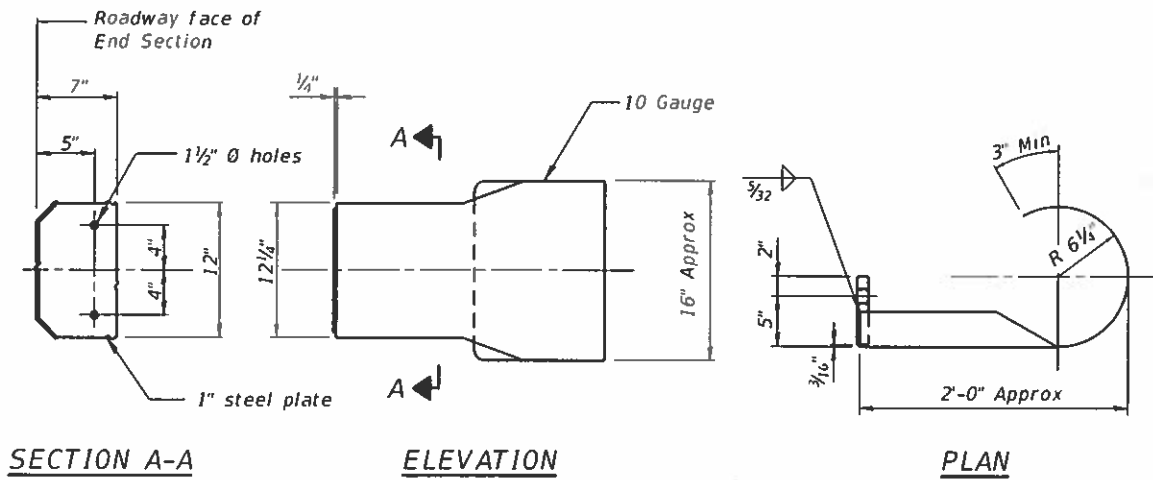
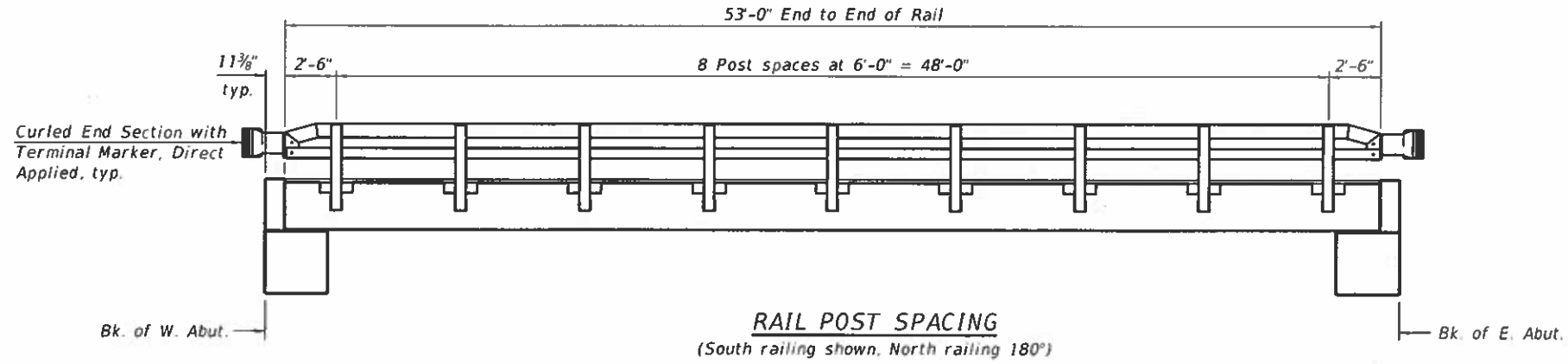
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PLOT DATE = 8/22/2018	CHECKED = CWC	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**21" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 074-3311**

SHEET NO. 4 OF 10 SHEETS

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
105	16-08137-00-BR	PIATT	24	13
CONTRACT NO. 91555				



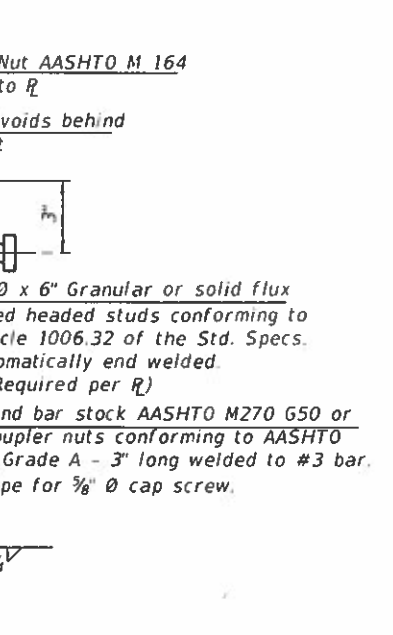
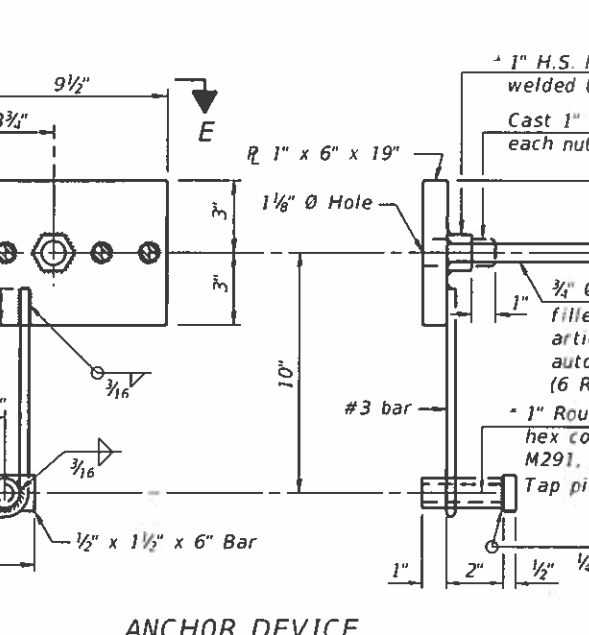
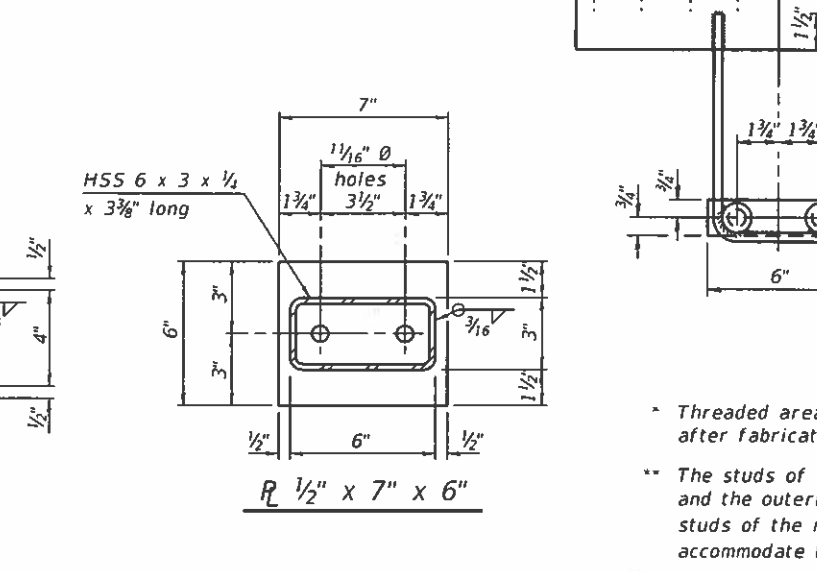
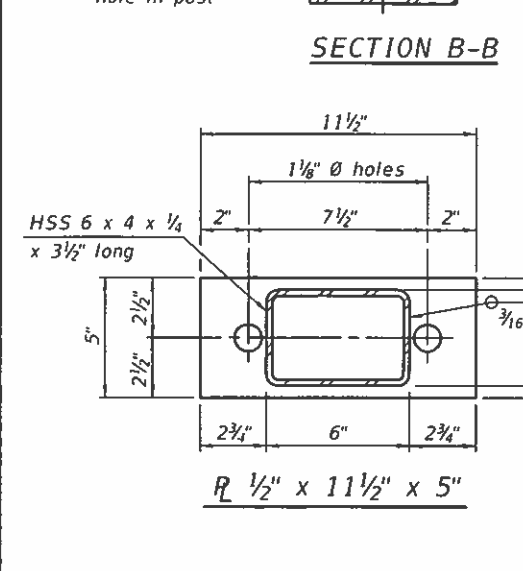
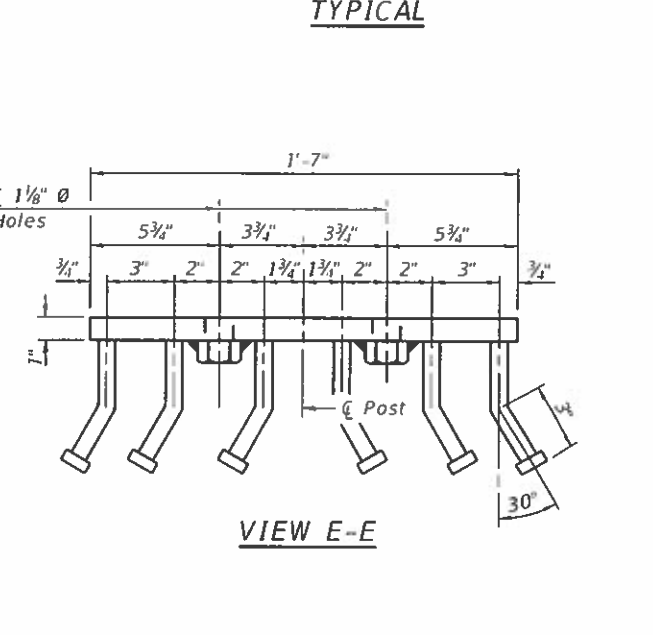
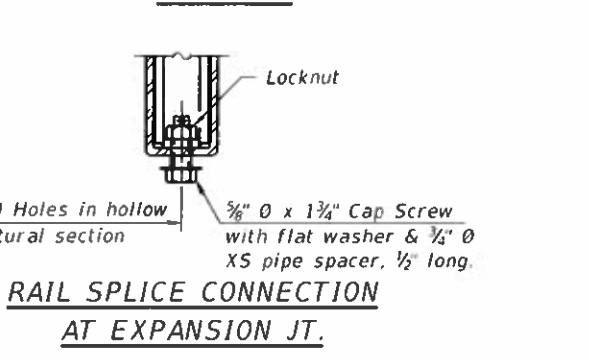
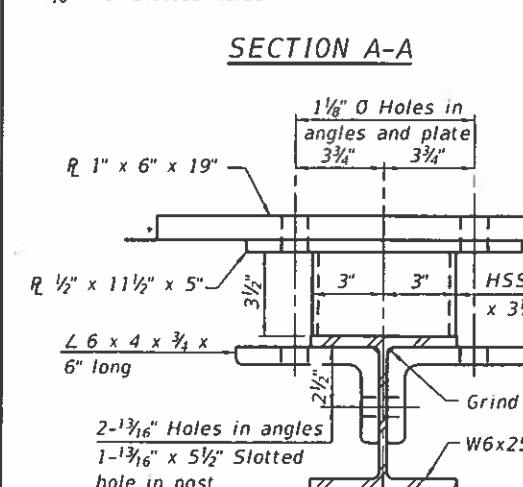
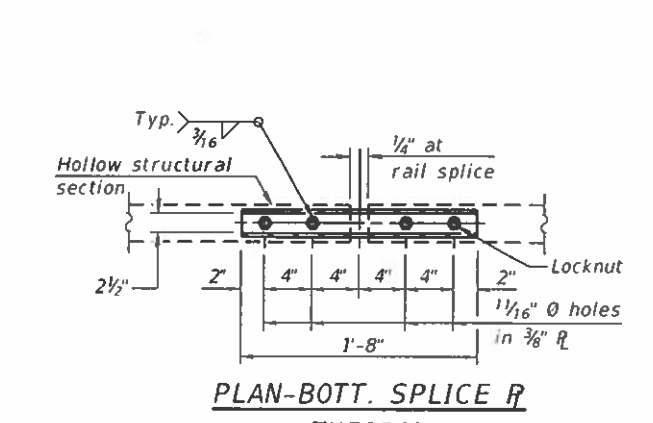
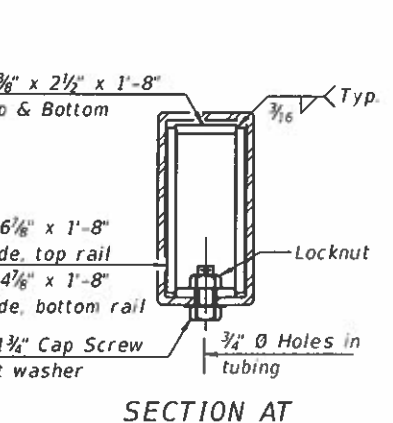
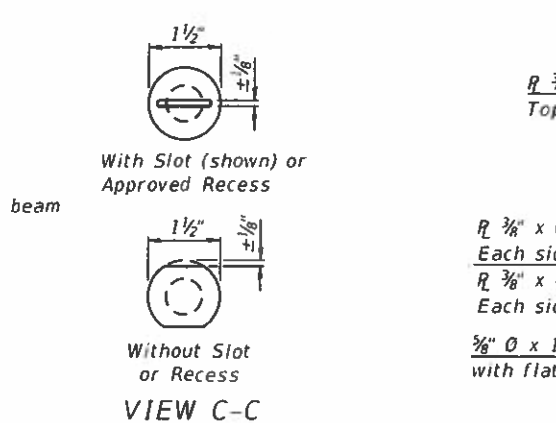
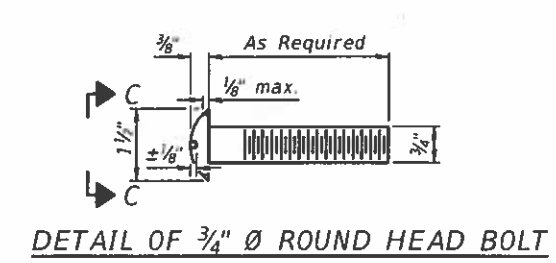
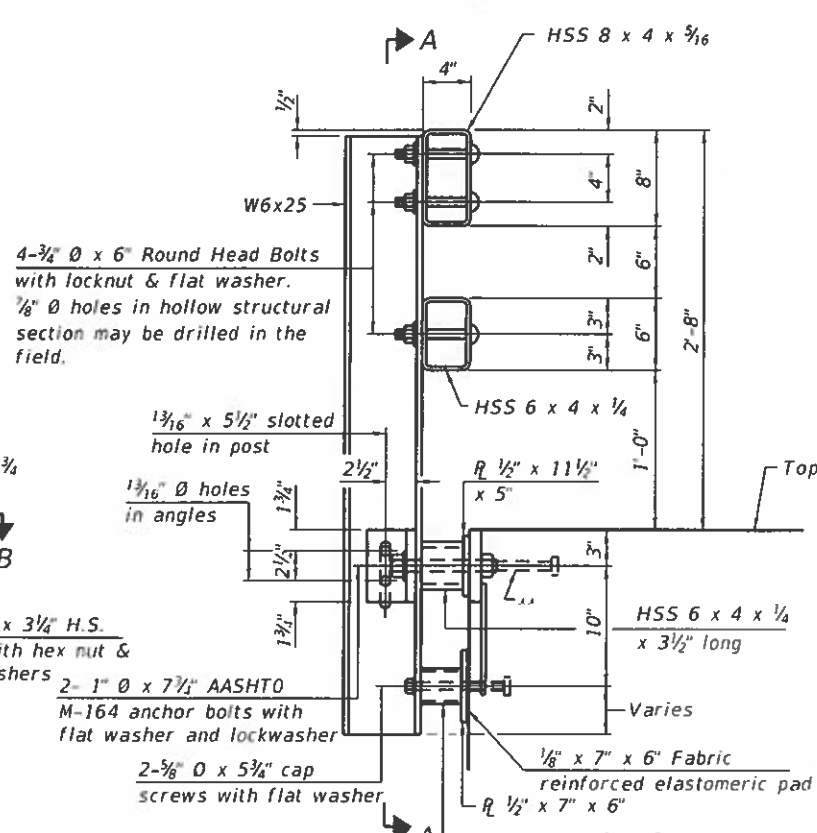
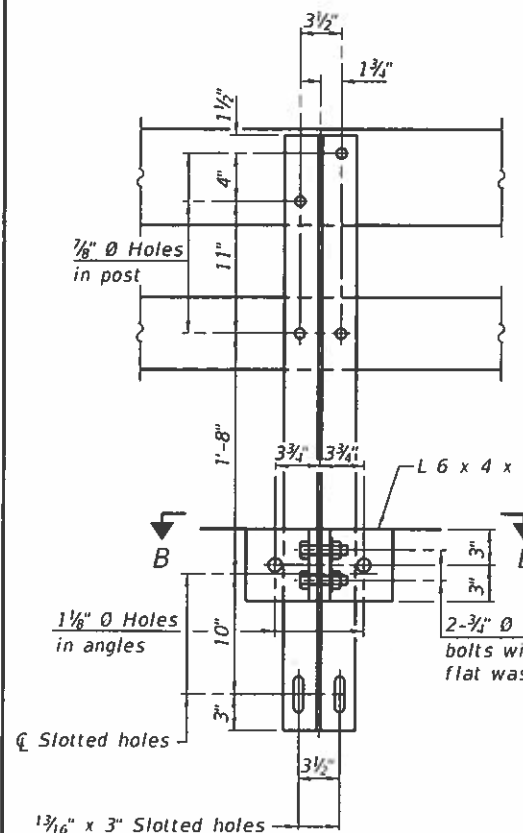
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PLOT DATE = 8/22/2018	CHECKED = CWC	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 074-3311**

SHEET NO. 5 OF 10 SHEETS

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
105	16-08137-00-BR	PIATT	24	14
CONTRACT NO. 91555				
ILLINOIS FED. AID PROJECT				



Note:
All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.

* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.
** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement bar placement.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	106

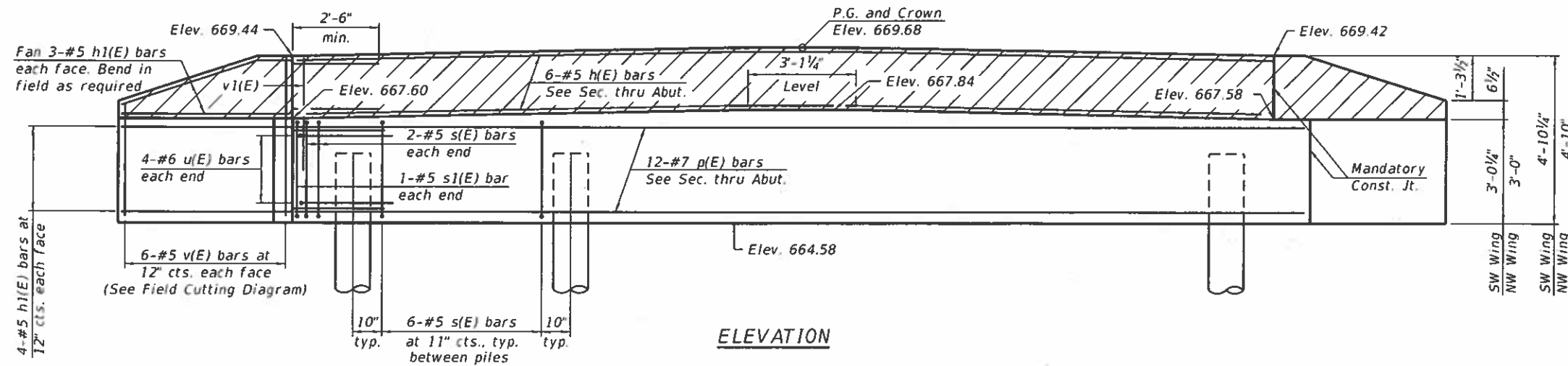


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PLOT DATE = 8/22/2018	CHECKED - CWC	REVISED

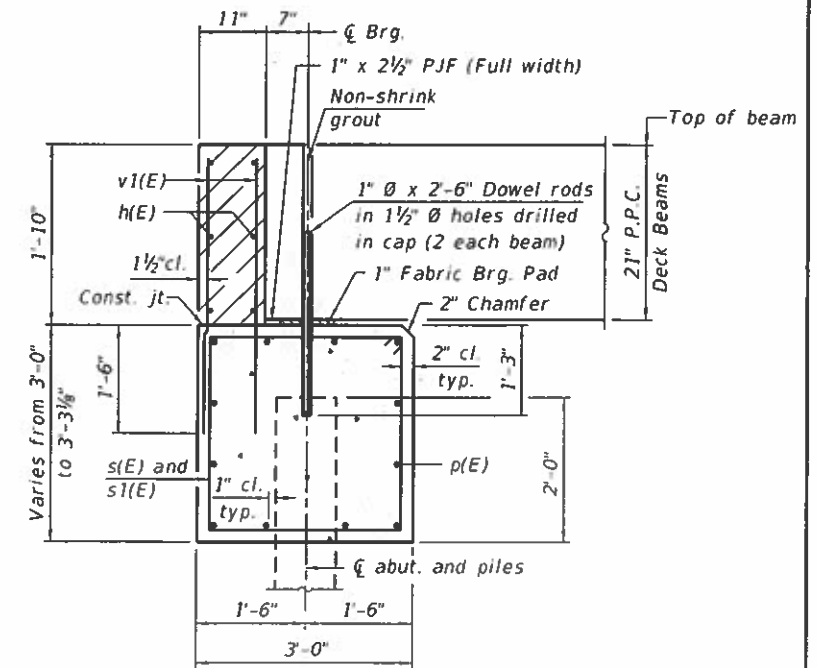
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM
STRUCTURE NO. 074-3311
SHEET NO. 6 OF 10 SHEETS

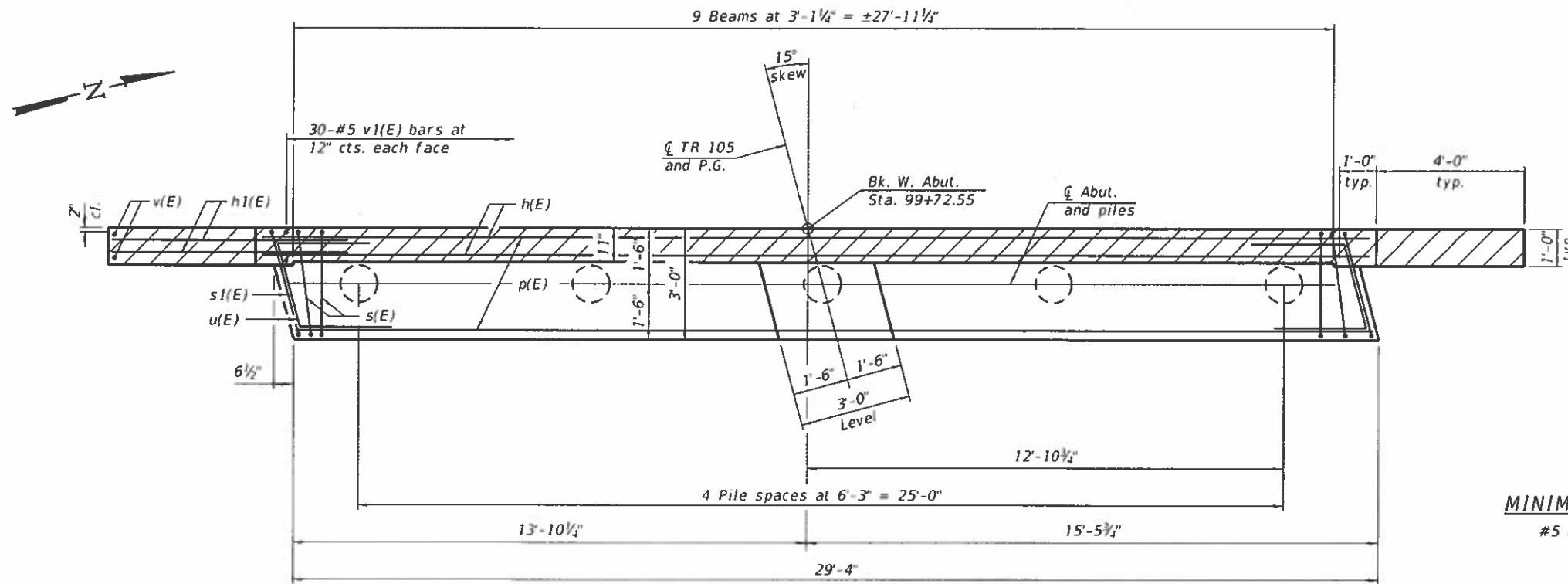
TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
105	16-08137-00-BR	PIATT	24	15
CONTRACT NO. 91555				
ILLINOIS FED. AID PROJECT				



ELEVATION



SECTION THRU ABUTMENT
(Dimensions are at Rt. L's)
See sheet 4 for Fabric Bearing Pad details.



PLAN

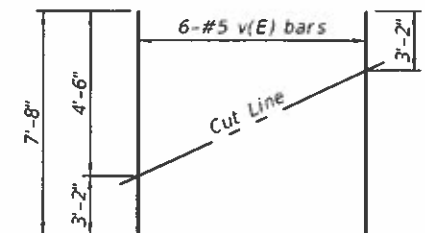
MINIMUM BAR LAP
#5 bar = 2'-6"

BILL OF MATERIAL

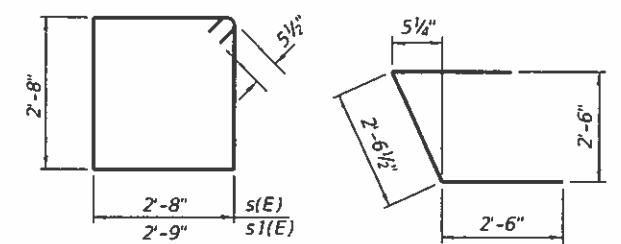
Bar	No.	Size	Length	Shape
h(E)	6	#5	27'-7"	—
h1(E)	28	#5	7'-6"	—
p(E)	12	#7	29'-0"	—
s(E)	28	#5	11'-7"	□
s1(E)	2	#5	11'-9"	□
u(E)	8	#6	7'-6 1/2"	⌒
v(E)	12	#5	7'-8"	—
v1(E)	60	#5	3'-2"	—
Structure Excavation		Cu. Yd.	39	
Concrete Structures		Cu. Yd.	13.4	
Reinforcement Bars, Epoxy Coated		Pound	1,860	
Furnishing Metal Shell Piles 12" x 0.250"		Foot	100	
Driving Piles		Foot	100	
Test Pile Metal Shells		Each	1	

- Notes:
- The hatched area shall be poured after the beams are in place. The backwall shall be cast against the beams.
 - Dowel holes in beams shall be filled with non-shrink grout to the top of the beam and allowed to cure for a minimum of 24 hours prior to grouting the keyways. Cost included with Precast Prestressed Concrete Deck Beams (21" Depth).
 - If pile interferes with dowel embedment, reduce dowel embedment at location of interference to 1'-0".
 - For details of piles, see sheet 9.

WEST ABUT. PILE DATA
 Type: Metal Shell 12" Ø x 0.250"
 Nominal Required Bearing: 300 kips
 Factored Resistance Available: 165 kips
 Est. Length: 25 ft.
 No. Production Piles: 4
 No. Test Piles: 1



FIELD CUTTING DIAGRAM
Order v(E) bars full length. Cut as shown and use remainder of bars in opposite face.



BARS s(E) & s1(E) BAR u(E)

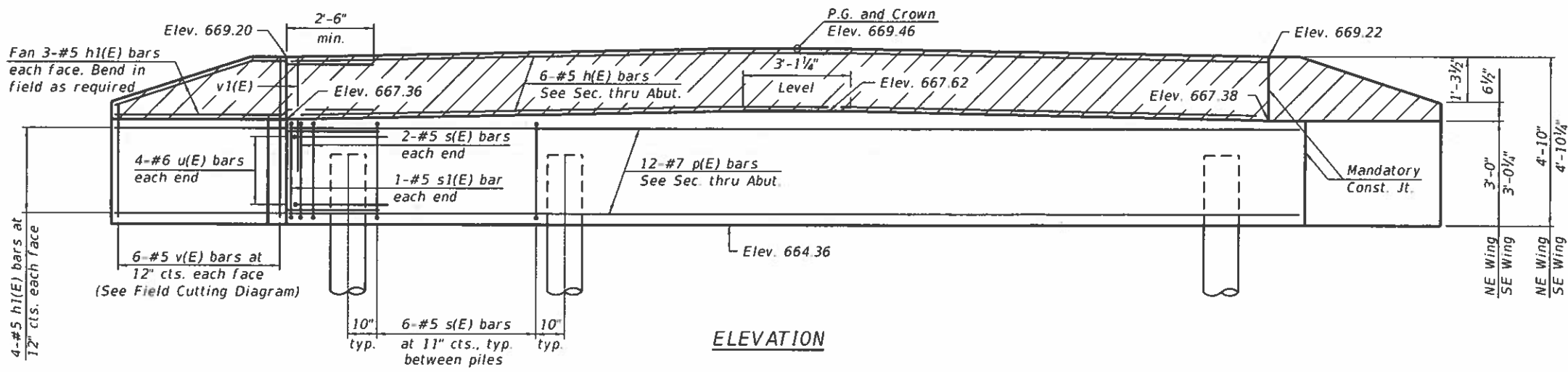


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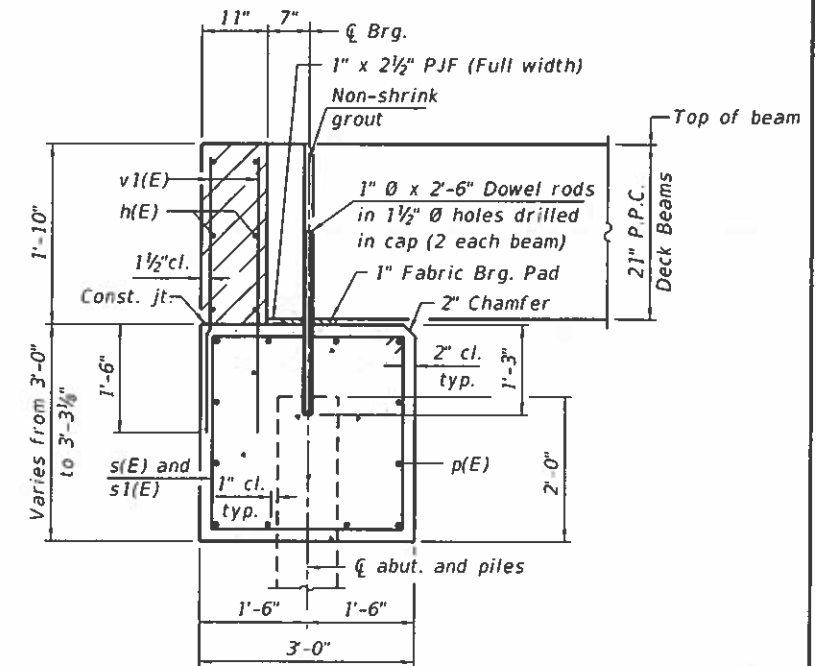
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 074-3311
SHEET NO. 7 OF 10 SHEETS

TR RTE. = 105	SECTION = 16-08137-00-BR	COUNTY = PIATT	TOTAL SHEETS = 24	SHEET NO. = 16
CONTRACT NO. 91555				
ILLINOIS FED. AID PROJECT				



ELEVATION

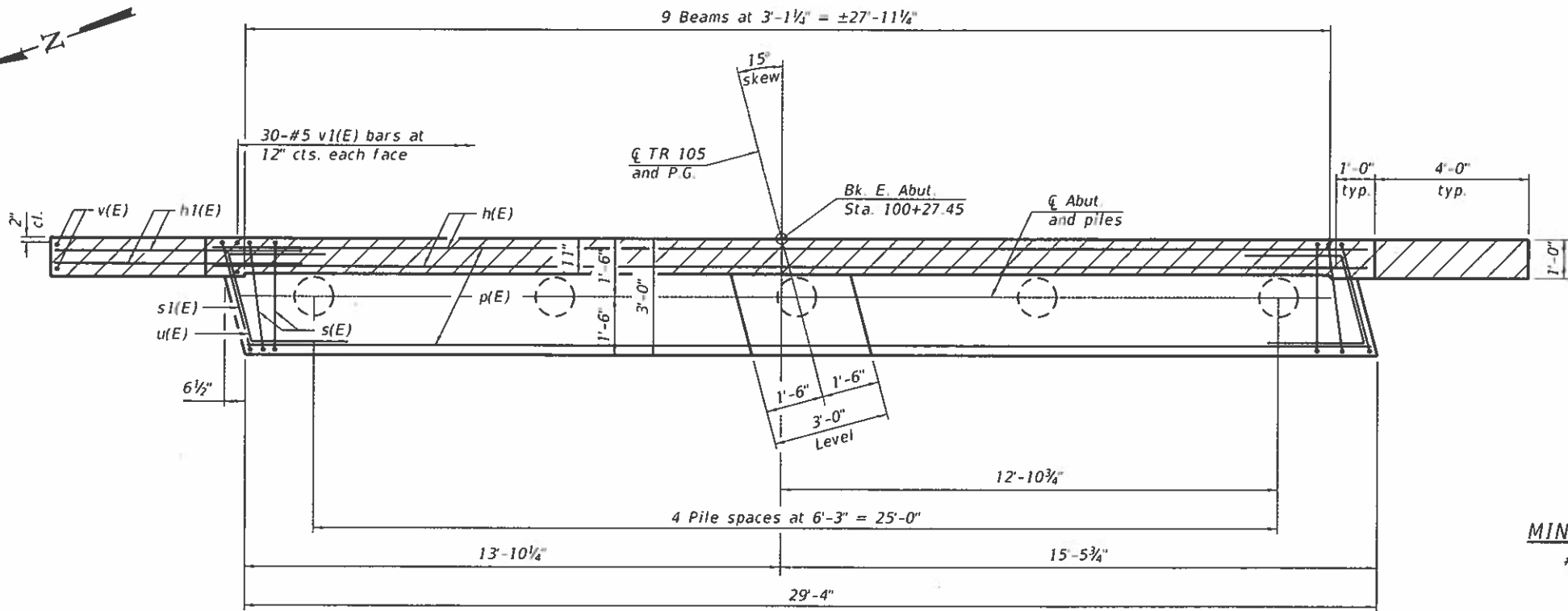


SECTION THRU ABUTMENT

(Dimensions are at Rt. L's)
See sheet 4 for Fabric Bearing Pad details.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	6	#5	27'-7"	—
h1(E)	28	#5	7'-6"	—
p(E)	12	#7	29'-0"	—
s(E)	28	#5	11'-7"	□
s1(E)	2	#5	11'-9"	□
u(E)	8	#6	7'-6 1/2"	⌒
v(E)	12	#5	7'-8"	—
v1(E)	60	#5	3'-2"	—
Structure Excavation			Cu. Yd.	39
Concrete Structures			Cu. Yd.	13.4
Reinforcement Bars, Epoxy Coated			Pound	1,860
Furnishing Metal Shell Piles 12" x 0.250"			Foot	100
Driving Piles			Foot	100
Test Pile Metal Shells			Each	1



PLAN

MINIMUM BAR LAP

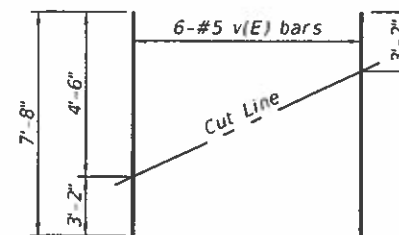
#5 bar = 2'-6"

Notes:

- The hatched area shall be poured after the beams are in place. The backwall shall be cast against the beams.
- Dowel holes in beams shall be filled with non-shrink grout to the top of the beam and allowed to cure for a minimum of 24 hours prior to grouting the keyways. Cost included with Precast Prestressed Concrete Deck Beams (21" Depth).
- If pile interferes with dowel embedment, reduce dowel embedment at location of interference to 1'-0".
- For details of piles, see sheet 9.

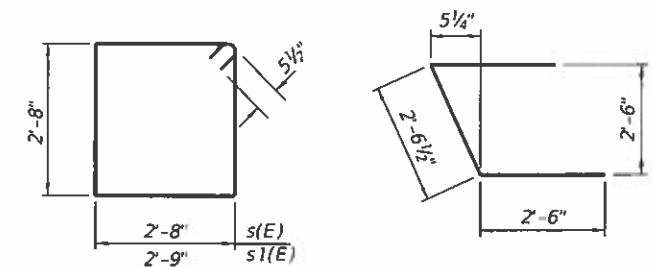
EAST ABUT. PILE DATA

Type: Metal Shell 12" Ø x 0.250"
Nominal Required Bearing: 300 kips
Factored Resistance Available: 165 kips
Est. Length: 25 ft.
No. Production Piles: 4
No. Test Piles: 1



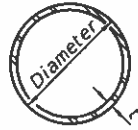
FIELD CUTTING DIAGRAM

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



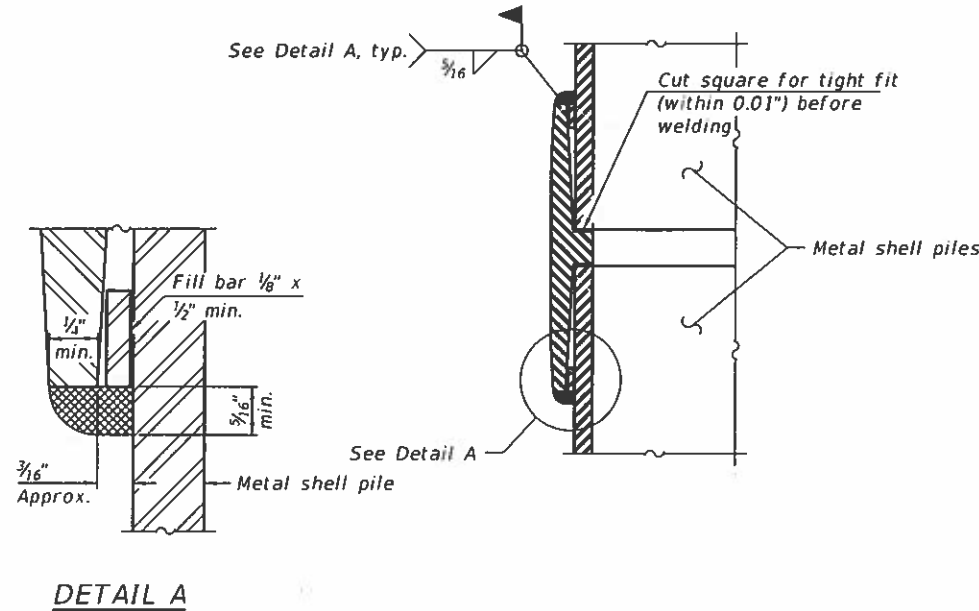
BARS s(E) & s1(E)

BAR u(E)

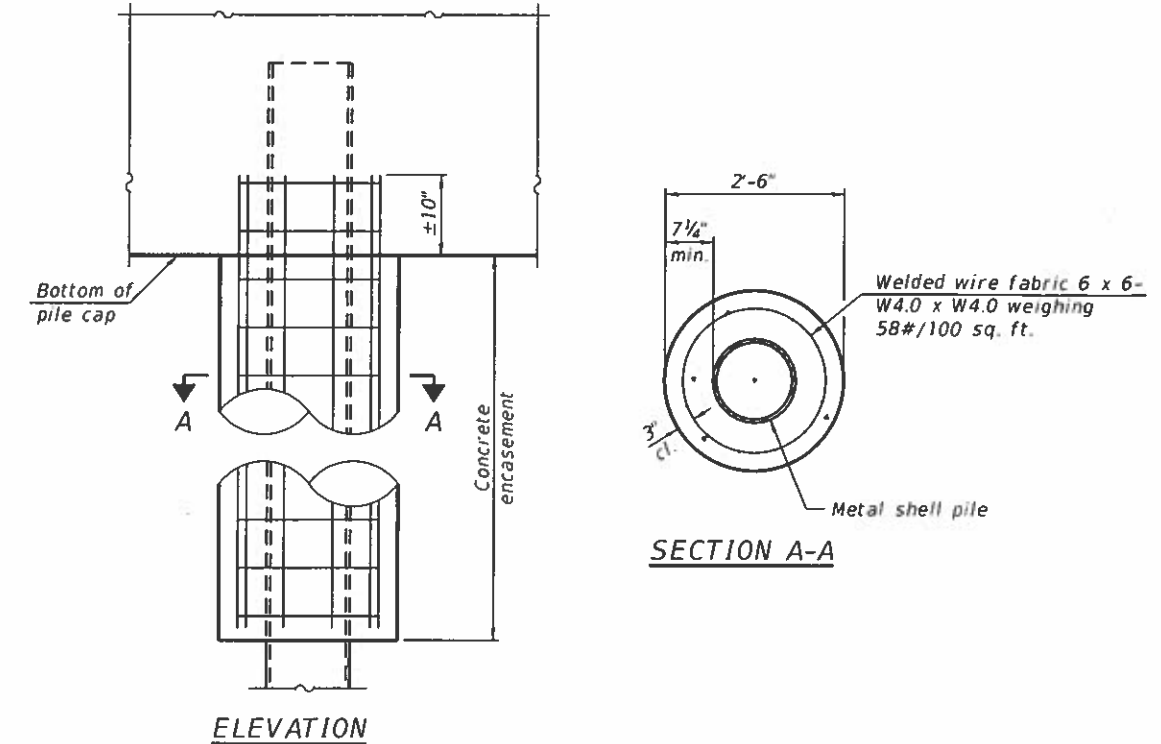


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



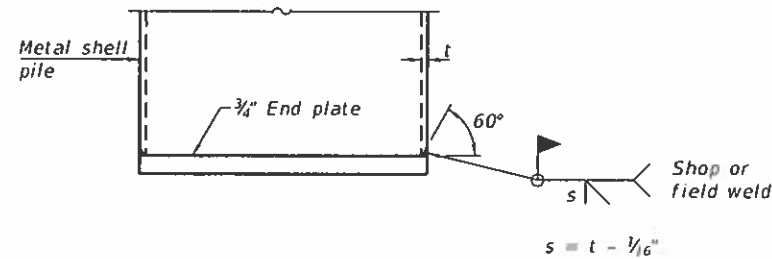
DETAIL A



ELEVATION

SECTION A-A

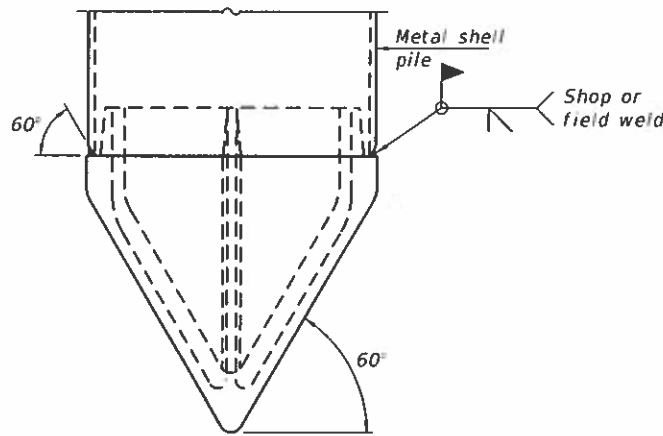
INDIVIDUAL PILE CONCRETE ENCASEMENT AT PIERS



END PLATE ATTACHMENT

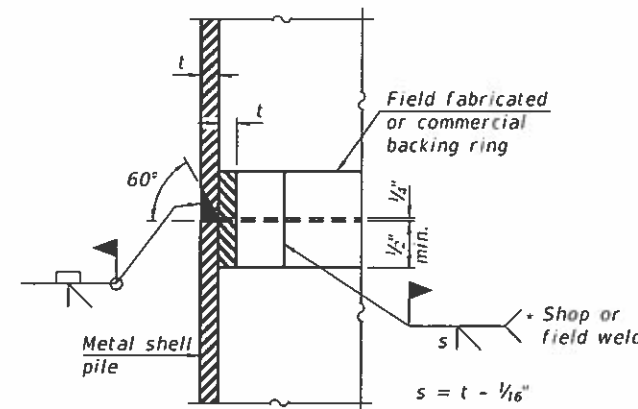
WELDED COMMERCIAL SPLICE

- Notes:
- The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
 - Pile segments shall be driven to solid contact with splicer before welding



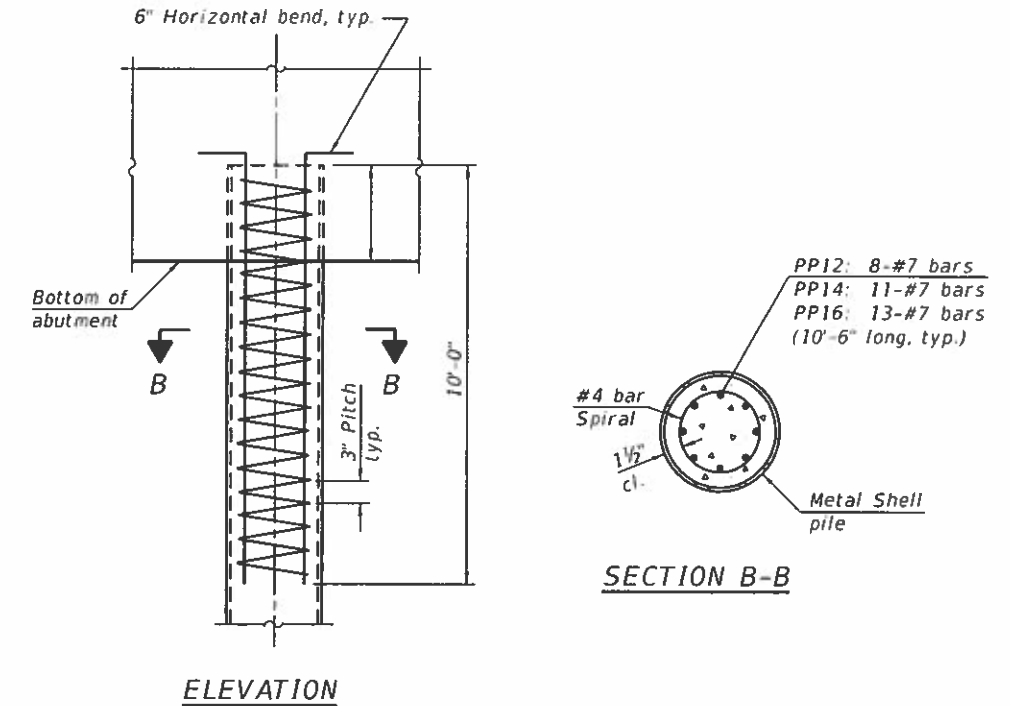
PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



COMPLETE PENETRATION WELD SPLICE

- * Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION

SECTION B-B

REINFORCEMENT AT ABUTMENTS

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.



DESIGNER: dhaberling	DESIGNED: CWC	REVISED:
FILE NAME: 074-3311-0000.dgn	CHECKED: SBC	REVISED:
PLDT SCALE: 0/2" = 1" = 1/2"	DRAWN: DLH	REVISED:
PLDT DATE: 8/22/2018	CHECKED: CWC	REVISED:

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
105	16-08137-00-BR	PIATT	24	18
				CONTRACT NO. 91555

LAST SAVED DATE 8/22/2018

B-1 Approximate Surface Elevation = 669.6'

B-2 Approximate Surface Elevation = 669.7'



SOIL BORING LOG

Page 1 of 1
Project #: 615135
Date 05/03/16

ROUTE E 1500N DESCRIPTION BRIDGE BORINGS - TR 105 OVER LAKE FORK LOGGED BY JH
SECTION _____ LOCATION PIATT COUNTY
COUNTY _____ STRUCTURE NO. _____ (Exist) X (Prop.) _____
BORING NO. B-1 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOW COUNT	UCS (%)	MOISTURE (%)	SOIL DESCRIPTION				
						ELEV (ft.)	DEPTH (ft.)	BLOW COUNT	UCS (%)	MOISTURE (%)
1/2" OIL & CHIP						23				
LOAM - A-4 Dark Brown, moist, stiff, low plasticity, with sand, trace gravel		4		4.3		35	14	4.7	11.9	
SILTY LOAM - A-4 Brown, very moist, stiff-very stiff, low plasticity, with sand -firm		8		16.1		20			11.7	
SANDY CLAY LOAM - A-6 Gray-Mottled-Brown, very moist, firm, low plasticity, trace gravel (*free water @ 11.0')		10	4	21.9		40	60-6			
LOAMY SAND - A-2.4 Gray, saturated, medium dense, fine		15	8	12.2		18	20	2.1	13.6	
CLAY LOAM - A-6 Gray, moist, hard, low plasticity, with sand, trace gravel		20	12	12.3		45	12	1.0	15.6	
		20	18	4.2	13.4					
		25	20	5.5	12.7					
		30	19	4.6	13.1					
		35	14	2.8	12.7					
		40	12							
		45	10							
		50	12							
		55	10							
		60	10							
		65	10							
		70	10							
		75	10							
		80	10							
		85	10							
		90	10							
		95	10							
		100	10							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)



SOIL BORING LOG

Page 1 of 1
Project #: 615135
Date 05/05/16

ROUTE E 1500N DESCRIPTION BRIDGE BORINGS - TR 105 OVER LAKE FORK LOGGED BY MB
SECTION _____ LOCATION PIATT COUNTY
COUNTY _____ STRUCTURE NO. _____ (Exist) X (Prop.) _____
BORING NO. B-2 DRILLING METHOD HOLLOW STEM HAMMER TYPE 140# SAFETY HAMMER

SOIL DESCRIPTION	ELEV (ft.)	DEPTH (ft.)	BLOW COUNT	UCS (%)	MOISTURE (%)	SOIL DESCRIPTION				
						ELEV (ft.)	DEPTH (ft.)	BLOW COUNT	UCS (%)	MOISTURE (%)
1/2" OIL & CHIP						24				
LOAM - A-4 Dark Brown, very moist, very stiff, low plasticity, with sand, trace gravel		6		17.0		35	16	2.7	14.8	
SANDY CLAY LOAM - A-6 Gray-Mottled-Brown, very moist, firm-stiff, low plasticity		10	4	21.8		29			12.1	
SANDY CLAY LOAM - A-6 Gray, wet, stiff, low plasticity (*free water @ 13.5')		15	5	28.2		40	13	3.0	11.7	
CLAY LOAM - A-6 Gray, very moist, hard, low plasticity, with sand, trace gravel		20	12	13.3		45	12			
SAND - A-3 Gray, saturated, very dense, fine-medium		25	12	13.3		50	12	2.2	15.6	
CLAY LOAM - A-6 Gray, very moist, hard, low plasticity, with sand, trace gravel		30	10	12.8		55				
		35	10	13.2						
		40	10	12.8						
		45	10	14.4						
		50	10							
		55	10							
		60	10							
		65	10							
		70	10							
		75	10							
		80	10							
		85	10							
		90	10							
		95	10							
		100	10							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer).
The Standard Penetration Test (SPT) N Value is per (AASHTO T206)

BBS 137 (9/05)

FILE NAME L:\Jobs\PIATT\Count\B254-TR 105\CAUD\CADD_Sheets\074-3311-00000.dgn

Design firm no 6400036



USER NAME = dhaberling	DESIGNED = CWC	REVISED
FILE NAME = 074-3311-00000.dgn	CHECKED = SBC	REVISED
PLOT SCALE = 0:2" = 1'-0"	DRAWN = DLH	REVISED
PLOT DATE = 8/22/2018	CHECKED = CWC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS
STRUCTURE NO. 074-3311

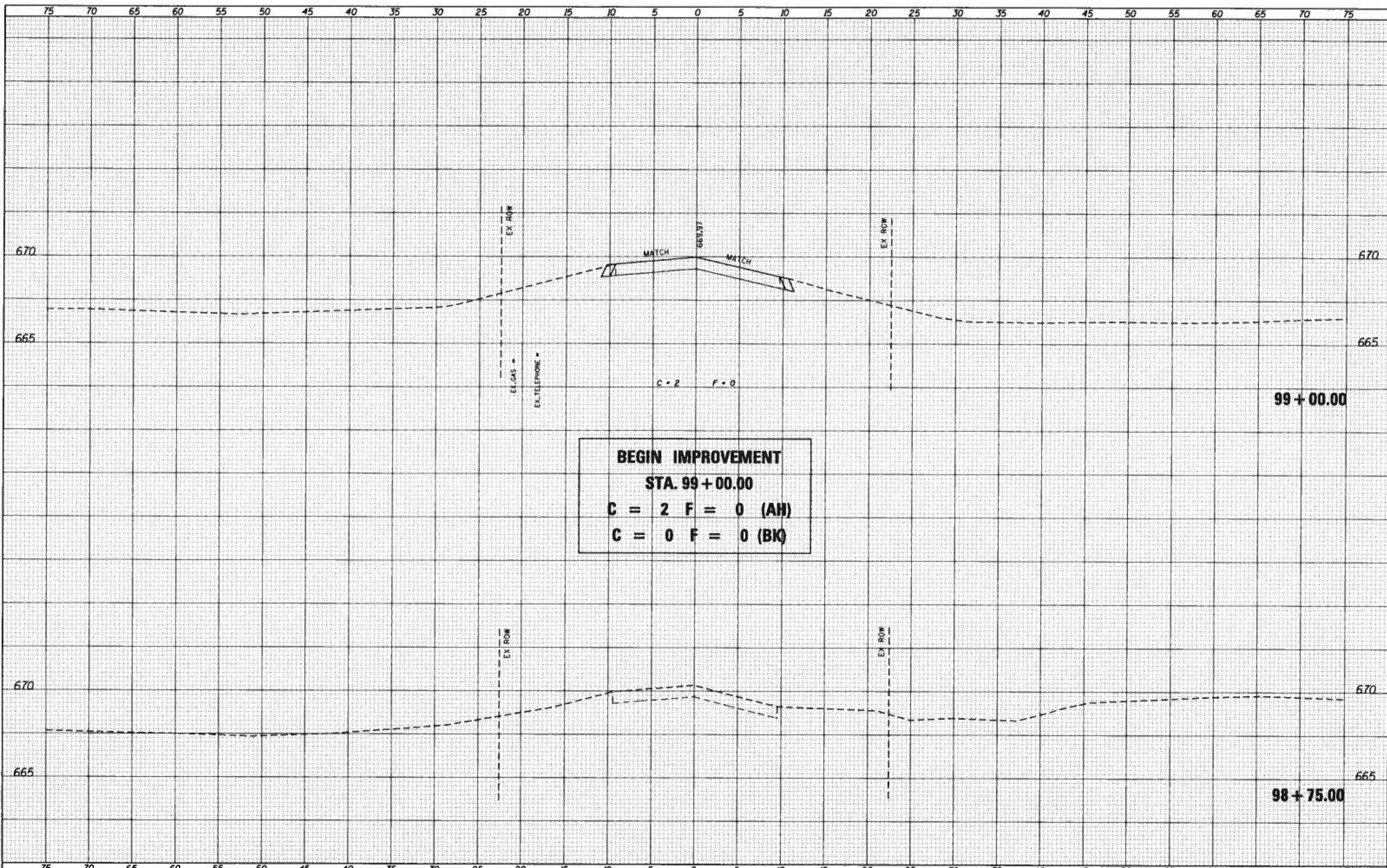
TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
105	16-08137-00-BR	PIATT	24	19
CONTRACT NO. 91555				

SHEET NO. 10 OF 10 SHEETS

ILLINOIS FED. AID PROJECT

DATE: _____
 BY: _____
 SUPERVISED: _____
 PLOTTED: _____
 TEMPLATE: _____
 NOTE BOOK: _____
 AREA CHECKED: _____
 NO.:

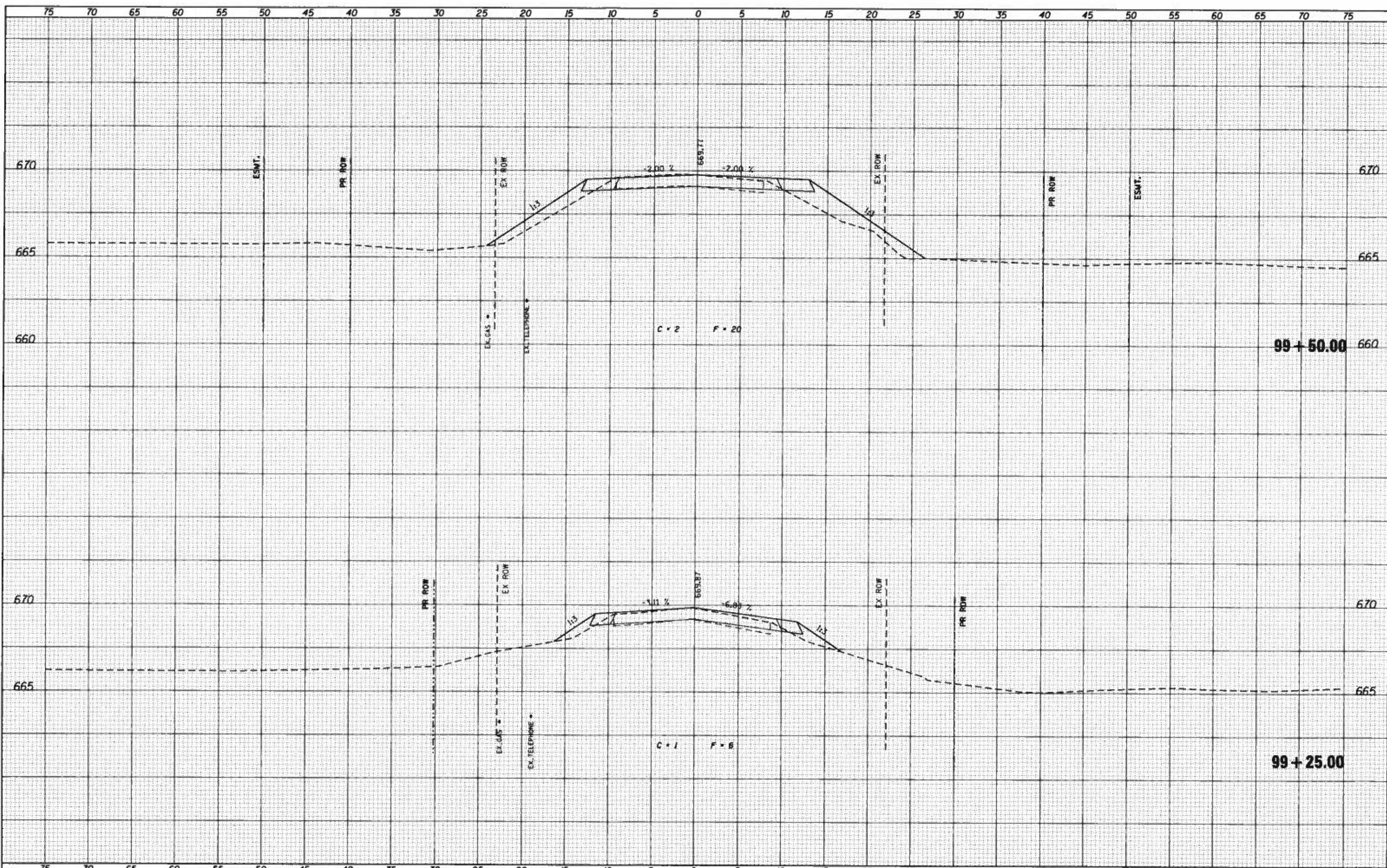
DATE: _____
 BY: _____
 SUPERVISED: _____
 PLOTTED: _____
 TEMPLATE: _____
 NOTE BOOK: _____
 AREA CHECKED: _____
 NO.:



BEGIN IMPROVEMENT
STA. 99+00.00
C = 2 F = 0 (AH)
C = 0 F = 0 (BK)

DATE	
BY	
ORIGINAL SURVEY	
SAFETY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SAFETY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



design firm
no. 16400036

whks
engineers • planners • land surveyors

USER NAME	g.jamason	DESIGNED	-	REVISED	
FILE NAME	DS91555-shr-wash1.dgn	CHECKED	-	REVISED	
PLOT SCALE	1/8" = 1' IN.	DRAWN	-	REVISED	
PLOT DATE	8/21/2018	CHECKED	-	REVISED	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

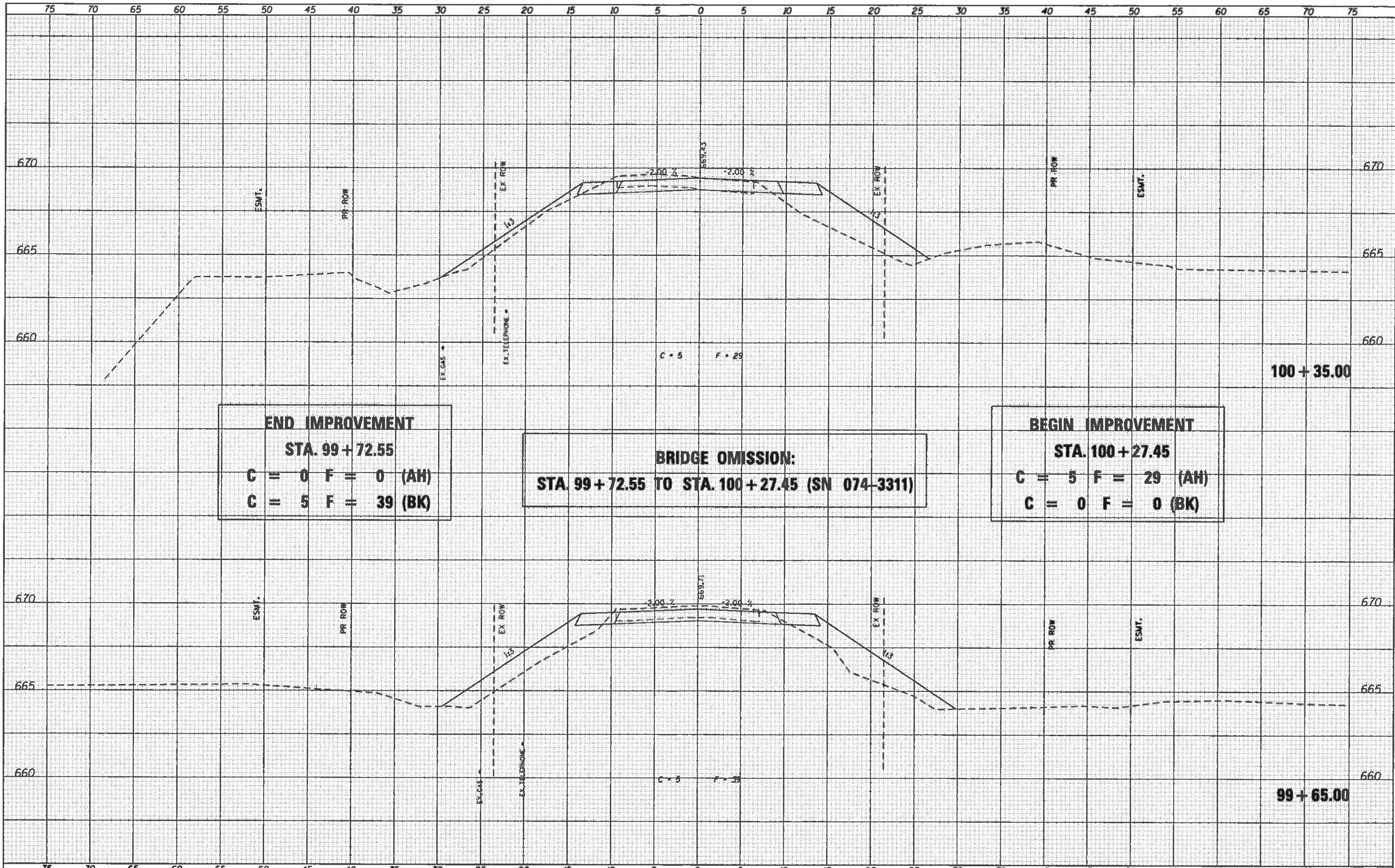
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 2 OF 5 SHEETS STA. 99+25.00 TO STA. 99+50.00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
105	16-08137-00-BR	PIATT	24	21
				CONTRACT NO. 91555
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

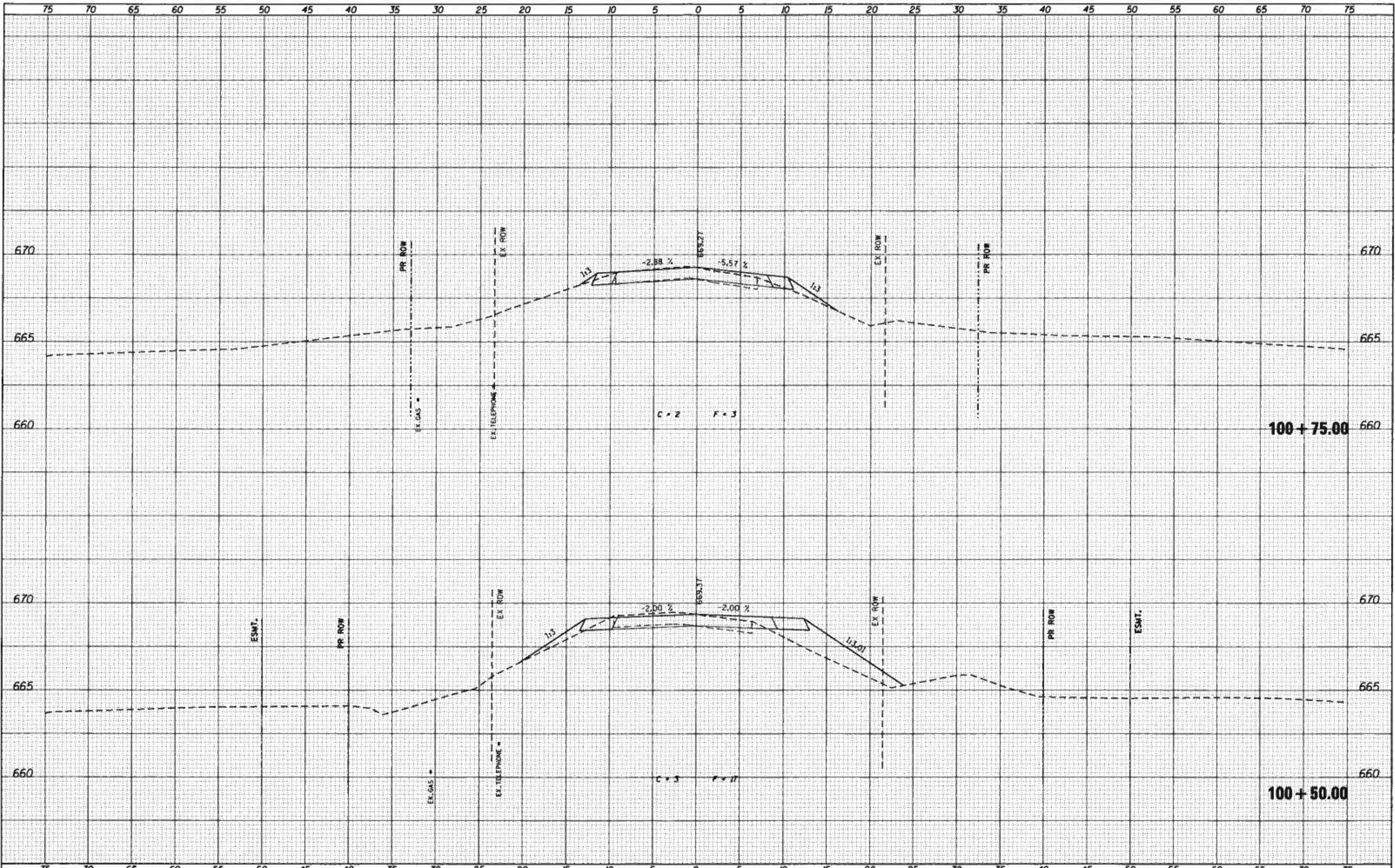
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



END IMPROVEMENT
STA. 99+72.55
 C = 0 F = 0 (AH)
 C = 5 F = 39 (BK)

BRIDGE OMISSION:
STA. 99+72.55 TO STA. 100+27.45 (SN 074-3311)

BEGIN IMPROVEMENT
STA. 100+27.45
 C = 5 F = 29 (AH)
 C = 0 F = 0 (BK)



DATE	
BY	
DESIGNED	
CHECKED	
DRAWN	
DATE	
NO.	

DATE	
BY	
DESIGNED	
CHECKED	
DRAWN	
DATE	
NO.	

design firm
no. 164001036

engineers • planners • land surveyors

USER NAME	g.jameson	DESIGNED	-	REVISED	
FILE NAME	05/19/55-shi-wash.dgn	CHECKED	-	REVISED	
PLOT SCALE	1/8" = 1' IN.	DRAWN	-	REVISED	
PLOT DATE	8/21/2018	CHECKED	-	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

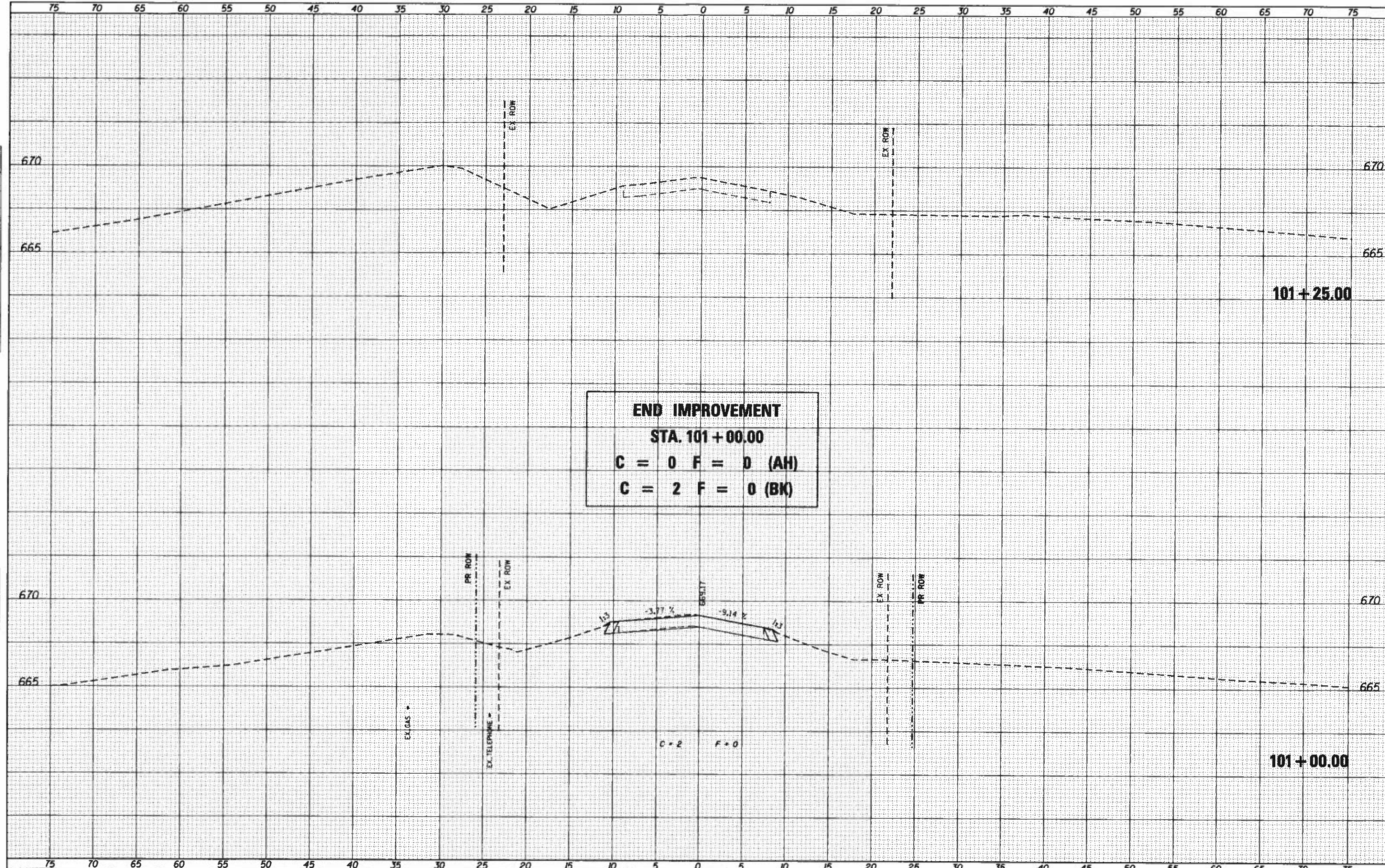
CROSS SECTIONS

SCALE: 1" = 5' SHEET NO. 4 OF 5 SHEETS STA. 100+50.00 TO STA. 100+75.00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
105	16-08137-00-BR	PIATT	24	23
			CONTRACT NO. 91555	
ILLINOIS FED. AID PROJECT				

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

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



END IMPROVEMENT
STA. 101+00.00
C = 0 F = 0 (AH)
C = 2 F = 0 (BK)

USER NAME	g.jameson	DESIGNED	-	REVISED	
FILE NAME	0591555.sht	CHECKED	-	REVISED	
PLOT SCALE	1/8"=1'-0"	DRAWN	-	REVISED	
PLOT DATE	8/21/2010	CHECKED	-	REVISED	

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
105	16-08137-00-BR	PIATT	24	24
CONTRACT NO. 91555				

ILLINOIS FED. AID PROJECT