

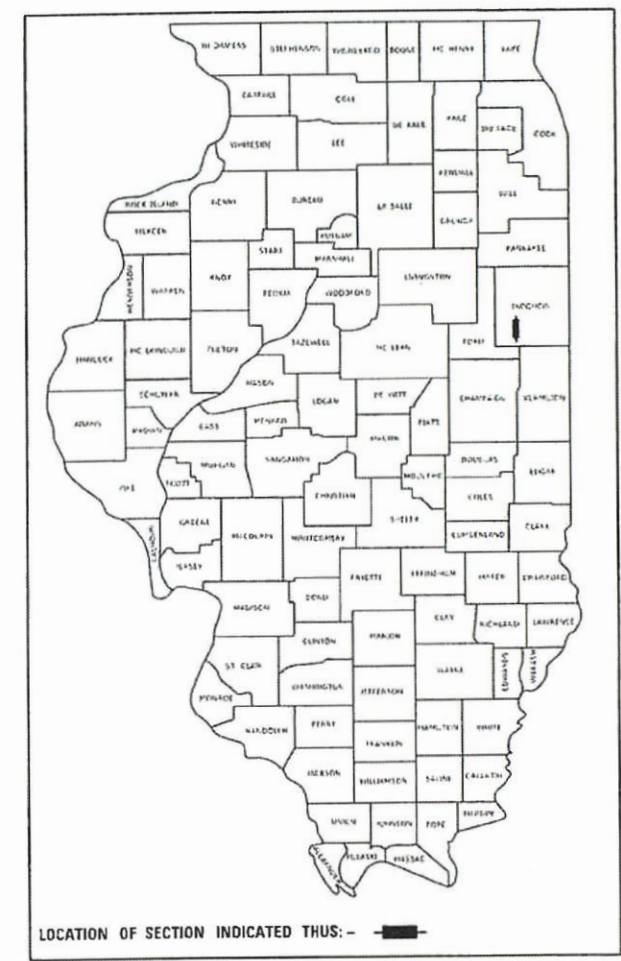
F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1335	17-00234-00-BR	IROQUOIS	32	1
CONTRACT NO. 87769				
FED. ROAD DIST. NO. 7	BLMADIS	FED. AID PROJECT NO. UUK6(060)		

INDEX OF SHEETS

11/18/2022 LETTING ITEM 094

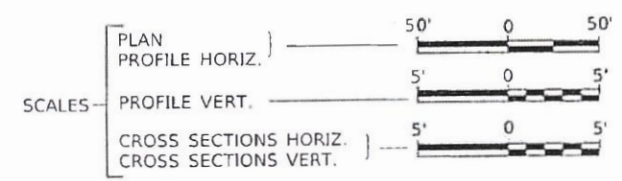
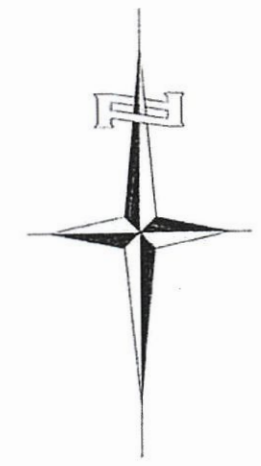
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, TYPICAL SECTIONS, DETAILS
3	SUMMARY OF QUANTITIES, SCHEDULES OF QUANTITIES
4	TRAFFIC CONTROL PLAN
5	EROSION CONTROL PLAN
6	PLAN AND PROFILE
7-11	PRECAST BOX PLANS
12-22	STRUCTURE PLANS
23-32	CROSS SECTIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM-BRIDGE
IROQUOIS COUNTY
SECTION 17-00234-00-BR
F.A.S. 1335 (C.H. 42) OVER
TRIBUTARY TO LITTLE MUD CREEK
PROJECT NO. UUK6(060)
BRIDGE REPLACEMENT
JOB NUMBER C-93-004-22

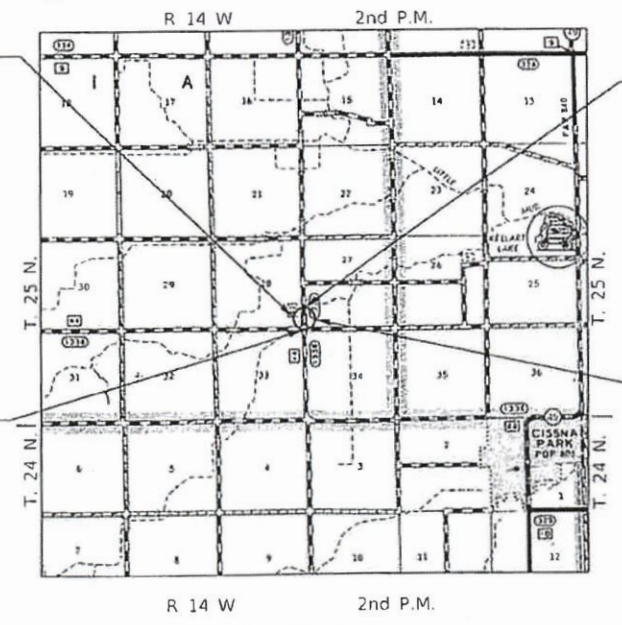


HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-04 NAME PLATE FOR BRIDGES
- 701901-08 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- BLR 21-9 TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 24-2 MAILBOX TURNOUT FOR LOCAL ROADS



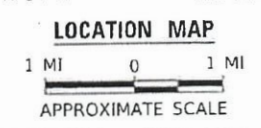
PROPOSED STRUCTURE SN 038-3016
 SINGLE SPAN 33' PCC DECK BEAM
 SUPERSTRUCTURE ON CONCRETE
 SPILL-THRU PILE BENT ABUTMENTS,
 74'-0" BK TO BK, 30'-0" O TO O DECK,
 SKEWED 20° RT. AHEAD.



SECTION 17-00234-00-BR
 ENDS
 STATION 24+50.00

EXISTING STRUCTURE SN 038-3008
 SINGLE SPAN CONCRETE SLAB BRIDGE ON
 CLOSED ABUTMENTS WITH CONCRETE WINGWALLS,
 ±28'-0" BK TO BK, ±26'-6" O TO O DECK,
 SKEWED 15° RT AHEAD.
 (TO BE REMOVED)

SECTION 17-00234-00-BR
 BEGINS
 STATION 15+00.00



NET LENGTH OF PROJECT = 950.00 FEET = 0.180 MILES
 DESIGN CLASSIFICATION: MINOR COLLECTOR (NON-URBAN)
 DESIGN ADT = 140 (2022)
 DESIGN SPEED = 40 MPH

UTILITY COMPANIES
 FRONTIER COMMUNICATIONS
 BLOOMINGTON, ILLINOIS
 EASTERN ILLINI ELECTRIC COOP
 PAXTON, ILLINOIS
 METRO COMMUNICATIONS
 SULLIVAN, ILLINOIS

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

CONTRACT NO. 87769

PLANS DESIGNED IN ACCORDANCE WITH BUREAU
 OF LOCAL ROADS AND STREETS MANUAL GUIDELINES
 FOR TWO LANE RURAL LOCAL ROADS - RECONSTRUCTION

APPROVED	<i>[Signature]</i> MARCH 28, 2022	2022
IROQUOIS COUNTY ENGINEER		
PASSED	<i>[Signature]</i> APRIL 14, 2022	2022
DISTRICT THREE ENGINEER OF LOCAL ROADS & STREETS		
Released For Bid Based on Limited Review	<i>[Signature]</i> APRIL 14, 2022	2022
REGION TWO ENGINEER STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		



Hutchison Engineering, Inc.
 JACKSONVILLE-SHOREWOOD
 PEORIA-QUAD CITIES-CARBONDALE
 2022 JOB#4815

4815E001

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS PROJECT

GENERAL NOTES

THE REMOVAL OF EXISTING OIL & CHIP SURFACE AND GRAVEL OR CRUSHED STONE BASE COURSE WHICH MAY BE NECESSARY FOR THE CONSTRUCTION OF THE PROJECT SHALL BE REMOVED AS EARTH EXCAVATION AND NO COMPENSATION WILL BE ALLOWED FOR ADDITIONAL LABOR OR EQUIPMENT REQUIRED.

ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING PRIVATELY OWNED UTILITIES REQUIRING ADJUSTMENT WILL BE MADE BY THE UTILITY COMPANY INVOLVED. WHERE NO PROVISIONS HAVE BEEN MADE FOR ADJUSTMENTS ON THE PLANS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY THE SAID UTILITY ADJUSTMENTS.

THE PROFILE GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND IN THE STATION CROSS SECTIONS ARE TO THE TOP OF THE FINISHED SURFACE.

ALL EXISTING DRAINAGE STRUCTURES NOT BEING REMOVED OR ADJUSTED BY THE CONTRACTOR THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

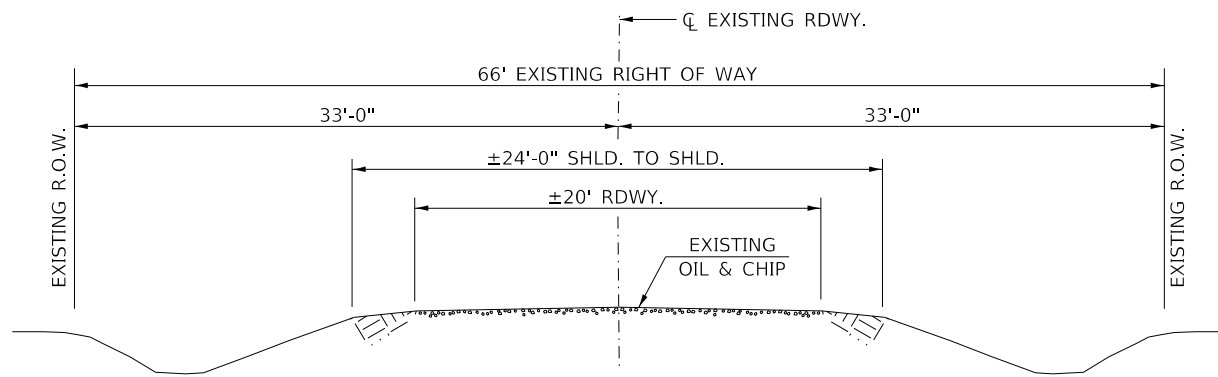
IF THE CONTRACTOR UTILIZES ORANGE TRAFFIC CONTROL SIGNS, THEY ARE REQUIRED TO BE FLUORESCENT ORANGE AND SHALL MEET RETRO REFLECTIVITY STANDARDS PER ARTICLE 1091.03 OF THE STANDARD SPECIFICATIONS.

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLES 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS.

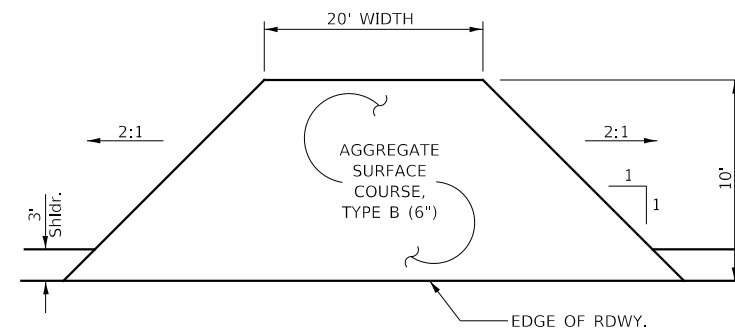
THE CONTRACTOR MAY BE REQUIRED TO CONDUCT SOME OF HIS GRADING AND TRENCHING OPERATIONS AROUND TRANSMISSION POLES AND UNDER TRANSMISSION LINES. THE ADDED COST OF SO DOING SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

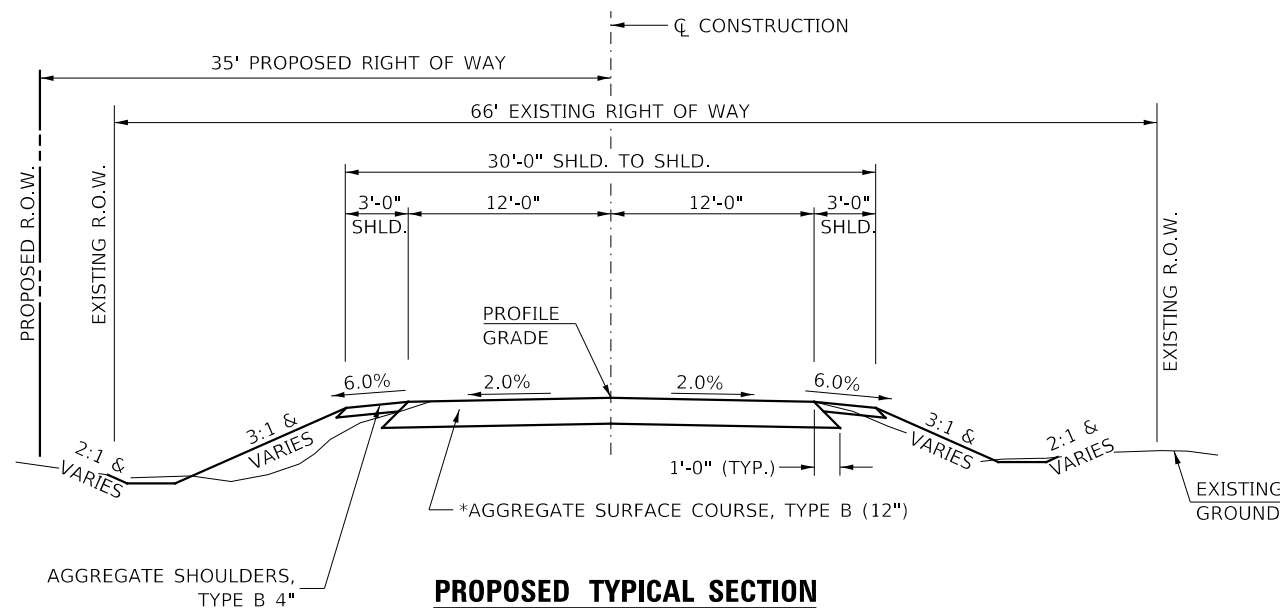
ALL ELEVATIONS SHOWN REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.



EXISTING TYPICAL SECTION



PRIVATE ENTRANCE
STA 15+79 LT (20' WIDE)



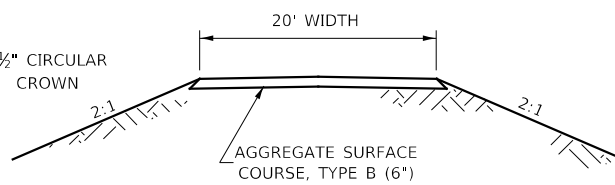
PROPOSED TYPICAL SECTION

STA. 15+00.00 TO STA. 19+66.00
STA. 20+40.00 TO STA. 24+50.00

EXCEPT TRANSITIONS

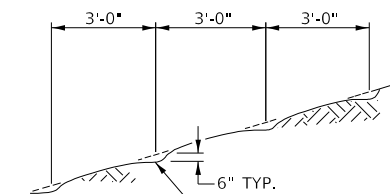
BRIDGE OMISSION
STA. 19+66.00 TO STA. 20+40.00

*ADDITIONAL PLACEMENT OF AGGREGATE SURFACE COURSE, TYPE B WILL BE REQUIRED WHERE THE PROPOSED PROFILE GRADE RAISES MORE THAN 12" FROM THE EXISTING SURFACE ELEVATION. EARTH FILL WILL NOT BE ALLOWED AND THE LIMITS WILL BE AT THE DISCRETION OF THE ENGINEER. AGGREGATE SURFACE COURSE, TYPE B SHALL BE PLACED IN ACCORDANCE WITH SECTION 402 OF THE STANDARD SPECIFICATIONS



FIELD ENTRANCES

STA 21+10 RT
STA 21+10 LT



6" DEEP TRENCHES APPROXIMATELY 3'-0" C-C PARALLEL TO THE CONTOUR LINES OF THE FILL.

NOTE: ALL SLOPES 3:1 OR STEEPER AND GREATER THAN 5' IN HEIGHT SHALL BE CONTOUR PLOWED AS SHOWN IN DETAIL, COST SHALL BE INCLUDED WITH SEEDING, CLASS 2 (SPECIAL).

DETAIL OF CONTOUR PLOWING

MODEL: I:\PROJECTS\170222\170222.dwg
FILE NAME: 170222 - C1-42 over Title to Little Mud Creek (I:\projects\170222\CADD\Sheet\170222.dwg)

USER NAME = SMierzwa	DESIGNED - JPS	REVISED - _____
PLOT SCALE = 2,000' / in.	CHECKED - STM	REVISED - _____
PLOT DATE = 3/15/2022	DATE - 3/15/2022	REVISED - _____

**IROQUOIS COUNTY
COUNTY HIGHWAY 42 OVER
TRIBUTARY TO LITTLE MUD CREEK**

GENERAL NOTES, TYPICAL SECTIONS, DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 15+00.00 TO STA. 24+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1335	17-00234-00-BR	IROQUOIS	32	2
CONTRACT NO. 87769				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. UUK6(060)	

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	735
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	30
20300100	CHANNEL EXCAVATION	CU YD	650
SP 20700220	POROUS GRANULAR EMBANKMENT	CU YD	55
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	500
28000305	TEMPORARY DITCH CHECKS	FOOT	48
28000400	PERIMETER EROSION BARRIER	FOOT	580
28000500	INLET AND PIPE PROTECTION	EACH	4
28100209	STONE RIPRAP, CLASS A5	TON	700
28200200	FILTER FABRIC	SQ YD	615
SP 40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	2,111
42300100	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 5 INCH	SQ YD	35
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	10
48101200	AGGREGATE SHOULDERS, TYPE B	TON	120
SP 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	83
50200100	STRUCTURE EXCAVATION	CU YD	60
50300225	CONCRETE STRUCTURES	CU YD	28.8
50300280	CONCRETE ENCASEMENT	CU YD	2.6
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	2,160
50800105	REINFORCEMENT BARS	POUND	3,110
51200957	FURNISHING METAL SHELL PILES 12"x0.250"	FOOT	440
51202305	DRIVING PILES	FOOT	440
51203200	TEST PILE METAL SHELLS	EACH	2
51500100	NAME PLATES	EACH	1
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2
54010802	PRECAST CONCRETE BOX CULVERTS 8' X 2'	FOOT	24
SP 542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	40
SP 542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	20
SP 542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	40
SP 59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	8.0
60801018	FLAP GATE 18"	EACH	1
63200310	GUARDRAIL REMOVAL	FOOT	208
67100100	MOBILIZATION	L SUM	1
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4

SP: SEE SPECIAL PROVISIONS
GBSP: SEE GUIDE BRIDGE SPECIAL PROVISIONS

CONSTRUCTION CODE TYPE: 0010

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	QUANTITY
GBSP X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	30
SP X1200090	TRAVERSABLE PIPE GRATE, SPECIAL	EACH	2
SP X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.75
SP Z0023000	FIELD TILE INSPECTION STRUCTURE	EACH	1
Z0062500	SAWING P.C. CONCRETE DRIVEWAYS	FOOT	16
XX006199	STEEL BRIDGE RAIL, TYPE SM (SPECIAL)	FOOT	148

SP: SEE SPECIAL PROVISIONS
GBSP: SEE GUIDE BRIDGE SPECIAL PROVISIONS
Δ: SPECIALTY ITEMS

CONSTRUCTION CODE TYPE: 0010

EARTHWORK SUMMARY					
STATION TO STATION	EARTH EXCAVATION	CHANNEL EXCAVATION	STRUCTURE EXCAVATION	FILL	WASTE (SHORTAGE)
RDWY 15+00.00 - 19+66.00	410			212	96
RDWY 20+40.00 - 24+50.00	324			181	62
CHANNEL		650			
STRUCTURE			60		
TOTAL	734	650	60	393	158
USE	735	650	60	-	160

(@ 25% SHRINKAGE)

PIPE CULVERTS, CLASS D, TYPE 1 18"		
STATION	SIDE	FOOT
19+52	LEFT	20
TOTAL		20

PIPE CULVERTS, CLASS D, TYPE 1 24"		
STATION	SIDE	FOOT
21+10	RIGHT	40
TOTAL		40

PIPE CULVERTS, CLASS D, TYPE 1 15"		
STATION	SIDE	FOOT
21+10	LEFT	40
TOTAL		40

AGGREGATE SHOULDERS, TYPE B 140#/CF					
STATION TO STATION	SIDE	WIDTH	LENGTH	TON	
15+00.00 - 15+60.50	LT	VAR.	60.50'	8	
15+00.00 - 15+45.00	RT	VAR.	45.00'	7	
15+92.50 - 19+48.19	LT	3.00'	350.69'	25	
15+45.00 - 15+60.00	RT	3.50' AVG.	15.00'	1	
15+60.00 - 15+80.00	RT	4.00'	20.00'	2	
15+80.00 - 15+90.00	RT	3.50' AVG.	10.00'	1	
15+90.00 - 16+84.00	RT	3.00'	94.00'	7	
16+84.00 - 16+99.00	RT	3.50' AVG.	15.00'	1	
16+99.00 - 17+06.00	RT	4.00'	7.00'	1	
17+48.50 - 19+54.69	RT	3.00'	206.19'	15	
19+48.19 - 19+60.95	LT	3.55' AVG.	12.76'	1	
19+54.69 - 19+71.00	RT	3.55' AVG.	16.31'	1	
20+34.90 - 20+51.31	LT	3.63' AVG.	16.41'	1	
20+45.05 - 20+57.80	RT	3.55' AVG.	12.75'	1	
20+51.31 - 20+83.50	LT	3.00'	32.19'	3	
20+57.80 - 20+83.50	RT	3.00'	25.70'	2	
21+36.50 - 24+00.00	LT	3.00'	263.50'	19	
21+36.50 - 24+00.00	RT	3.00'	263.50'	19	
24+00.00 - 24+50.00	LT	2.07' AVG.	50.00'	2	
24+00.00 - 24+50.00	RT	2.44' AVG.	50.00'	3	
TOTAL				120	

PIPE CULVERT REMOVAL			
STATION	SIZE	SIDE	FOOT
20+22	18"	LEFT	15
20+41	24"	RIGHT	20
21+07	24"	RIGHT	24
21+14	15"	LEFT	24
TOTAL			83

GUARDRAIL REMOVAL			
STATION TO STATION	SIDE	FOOT	
19+27 - 19+79	LEFT	52	
19+36 - 19+88	RIGHT	52	
20+12 - 20+64	LEFT	52	
20+19 - 20+71	RIGHT	52	
TOTAL		208	

PERIMETER EROSION BARRIER			
STATION TO STATION	SIDE	FOOT	
15+00 - 16+00	LEFT	115	
17+06 - 17+48	RIGHT	45	
20+90 - 21+30	LEFT	45	
20+90 - 21+30	RIGHT	45	
21+75 - 24+50	RIGHT	280	
24+00 - 24+50	LEFT	50	
TOTAL		580	

TEMPORARY DITCH CHECKS		
STATION	SIDE	FOOT
17+80	LEFT	12
19+80	RIGHT	12
20+30	LEFT	12
20+40	RIGHT	12
TOTAL		48

INLET AND PIPE PROTECTION		
STATION	SIDE	EACH
17+06	RIGHT	1
19+42	LEFT	1
21+26	RIGHT	1
21+27	LEFT	1
TOTAL		4

AGGREGATE SURFACE COURSE, TYPE B 140#/CF					
STATION TO STATION	THICKNESS	WIDTH	LENGTH	TON	
15+00.00 - 15+50.00	1.00'	25.00'	50.00'	88	
15+50.00 - 19+66.00	1.00' & VAR.	25.00'	416.00'	1,043	
ABUTMENT BACKFILL - SEE SPECIAL PROVISIONS					
20+40.00 - 24+00.00	1.00' & VAR.	25.00'	360.00'	772	
24+00.00 - 24+50.00	1.00'	23.75' AVG.	50.00'	83	
ENTR. 15+79.00 LT	0.50'	30.00' AVG.	10.00'	11	
ENTR. 17+27.00 RT	0.50'	33.00' AVG.	13.00'	15	
ENTR. 21+10.00 LT	0.50'	30' & VAR.	23.00'	30	
ENTR. 21+10.00 RT	0.50'	30' & VAR.	20.30'	27	
TOTAL				2,111	

MODEL: SMOULUMAMES
FILE NAME: V01815 - CH 42 over Tibb to Little Mud Creek (restored) (CADD) Sheet 18 of 15.dwg

USER NAME = SMierzwa	DESIGNED - JPS	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - JPS	REVISED -
PLOT DATE = 3/23/2022	CHECKED - MMO/STM	REVISED -
	DATE - 3/15/2022	REVISED -

**IROQUOIS COUNTY
COUNTY HIGHWAY 42 OVER
TRIBUTARY TO LITTLE MUD CREEK**

**SUMMARY OF QUANTITIES,
SCHEDULES OF QUANTITIES**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. 15+00.00 TO STA. 24+50.00

F.A.S. RTE. 1335	SECTION 17-00234-00-BR	COUNTY IROQUOIS	TOTAL SHEETS 32	SHEET NO. 3
CONTRACT NO. 87769			FED. ROAD DIST. NO. 7 ILLINOIS	
FED. AID PROJECT NO. IURK0600				



- 1

**ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY**
R11-3
 ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY
- 2

**ROAD CLOSED
2 3/4 MILE AHEAD
LOCAL TRAFFIC ONLY**
R11-3
 ROAD CLOSED
2 3/4 MILE AHEAD
LOCAL TRAFFIC ONLY
- 3

**ROAD CLOSED
3/4 MILE AHEAD
LOCAL TRAFFIC ONLY**
R11-3
 ROAD CLOSED
3/4 MILE AHEAD
LOCAL TRAFFIC ONLY
- 4

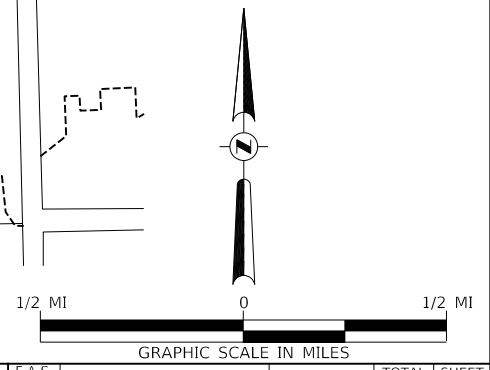
**ROAD CLOSED
1/4 MILE AHEAD
LOCAL TRAFFIC ONLY**
R11-3
 ROAD CLOSED
1/4 MILE AHEAD
LOCAL TRAFFIC ONLY
- 5

**ROAD
CLOSED
AHEAD**
W20-3
 ROAD CLOSED
AHEAD
- 6

**ROAD
CLOSED
500 FT**
W20-3
 ROAD CLOSED
500 FT
- 7

 TYPE III BARRICADES

SEE STANDARD BLR 21
AND SPECIAL PROVISIONS



MODEL: 14002ELN.MXD
FILE NAME: 170313 - CH 42 over Trib. to Little Mud Creek (Iroquois)CADDCADD Sheets14815-2001.dgn

USER NAME = SMierzwa	DESIGNED - JPS	REVISED -	
DRAWN - JPS	REVISOR -		
PLOT SCALE = 2,000' / in.	CHECKED - STM/MMO	REVISOR -	
PLOT DATE = 3/23/2022	DATE - 3/15/2022	REVISOR -	

**IROQUOIS COUNTY
COUNTY HIGHWAY 42 OVER
TRIBUTARY TO LITTLE MUD CREEK**

TRAFFIC CONTROL PLAN

SCALE: NONE SHEET 1 OF 1 SHEETS STA. 15+00.00 TO STA. 24+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1335	17-00234-00-BR	IROQUOIS	32	4
CONTRACT NO. 87769				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. UUK6(060)	

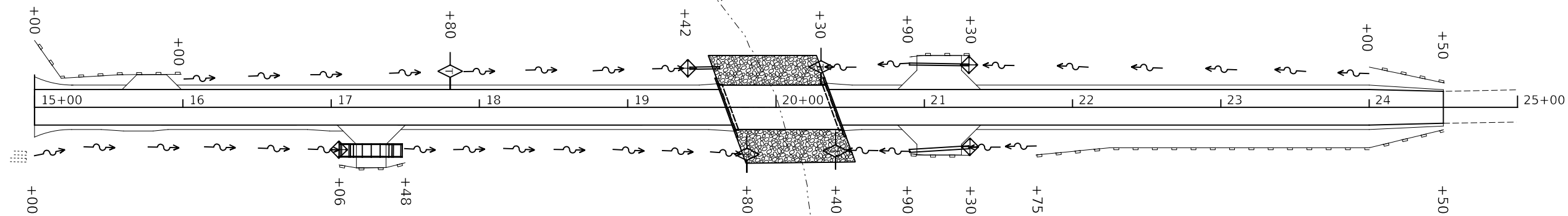
T 25 N, R 14 W, 2nd PM
SECTION 28

TRIBUTARY

TO

LITTLE

NOTE: TEMPORARY EROSION CONTROL SEEDING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 280.04 OF THE STANDARD SPECIFICATIONS








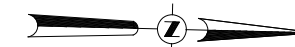
MUD

CREEK

T 25 N, R 14 W, 2nd PM
SECTION 27

LEGEND

-  SPECIAL DITCH - FLOW LINE AND DIRECTION
-  PERIMETER EROSION BARRIER
-  PROPOSED RIPRAP PLACEMENT
-  TEMPORARY DITCH CHECK
-  INLET & PIPE PROTECTION



PLAN	DATE
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NO. _____	
CADD FILE NAME _____	

PROFILE	DATE
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NO. _____	
CADD FILE NAME _____	

MODEL: S:\MODEL\NAMES
FILE NAME: V:\81313 - CH 42 over T110 to Little Mud Creek (Iroquois)\CADD\CADD Sheets\813-8001.dgn

USER NAME = SMierzwa	DESIGNED - JPS	REVISED - _____
	DRAWN - JPS	REVISED - _____
PLOT SCALE = 80.0000 ' / in.	CHECKED - STM	REVISED - _____
PLOT DATE = 3/15/2022	DATE - 3/15/2022	REVISED - _____

**IROQUOIS COUNTY
COUNTY HIGHWAY 42 OVER
TRIBUTARY TO LITTLE MUD CREEK**

EROSION CONTROL PLAN

SCALE: 1"=40' SHEET 1 OF 1 SHEETS STA. 15+00.00 TO STA. 24+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1335	17-00234-00-BR	IROQUOIS	32	5
CONTRACT NO. 87769				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO. UUK1(060)		

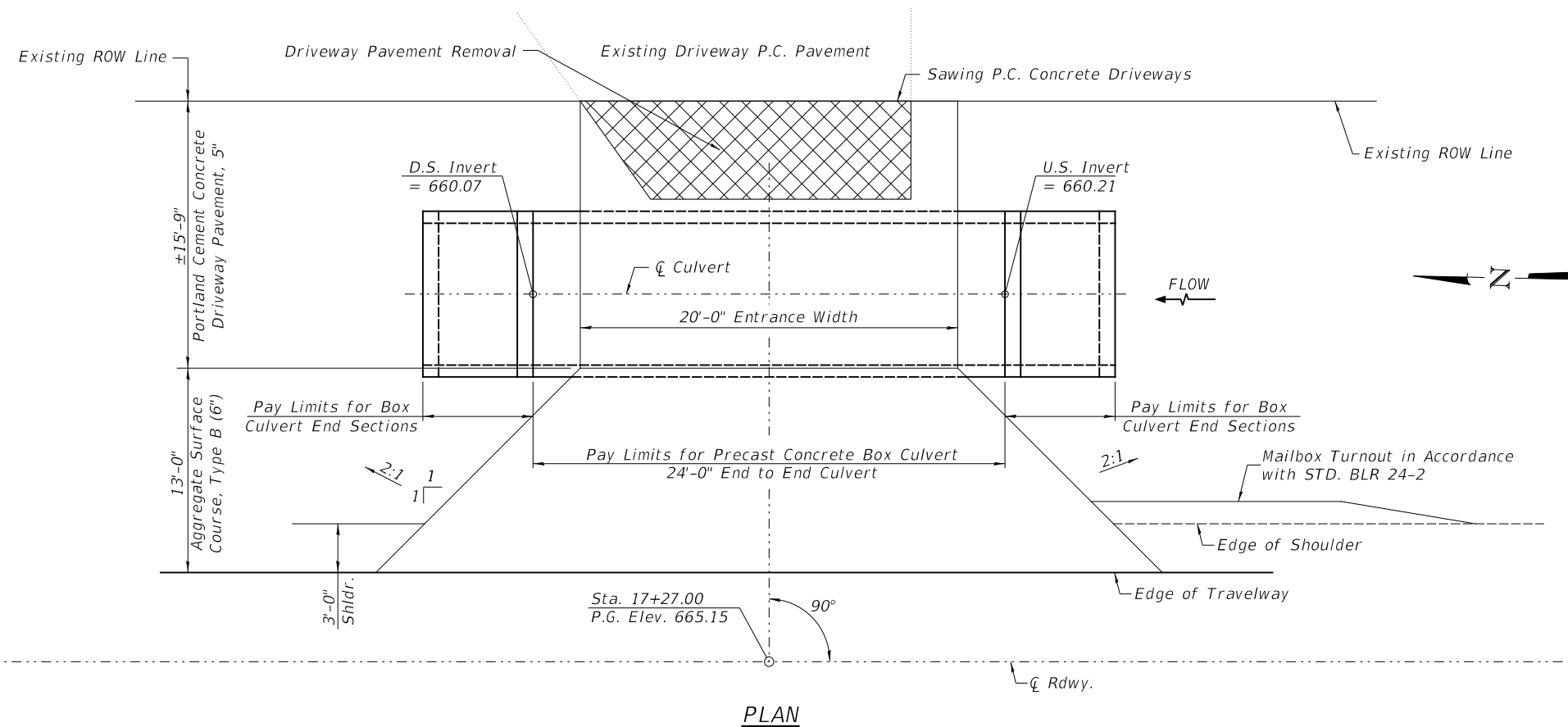
GENERAL NOTES

All excavation required for removal of the existing structure or construction of the culvert as shown in these plans and in accordance with the Standard Specifications shall be included in the cost of Precast Concrete Box Culverts. Areas of excavation required for construction of the new culvert shall be backfilled with Porous Granular Embankment up to the top of slab elevation. The required depth of removal and replacement of unsuitable materials may be adjusted by the Engineer to account for variable subsurface conditions. The 6 in. thick layer of porous granular embankment required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. The construction of the Portland Cement Concrete Driveway Pavement shall be in accordance with Sec. 423 of the Standard Specifications. The area to be excavated for the proposed box culvert and end sections shall not be measured for payment. The cost of the excavation and disposal shall be included in the cost of Precast Concrete Box Culverts, 8'x2'.

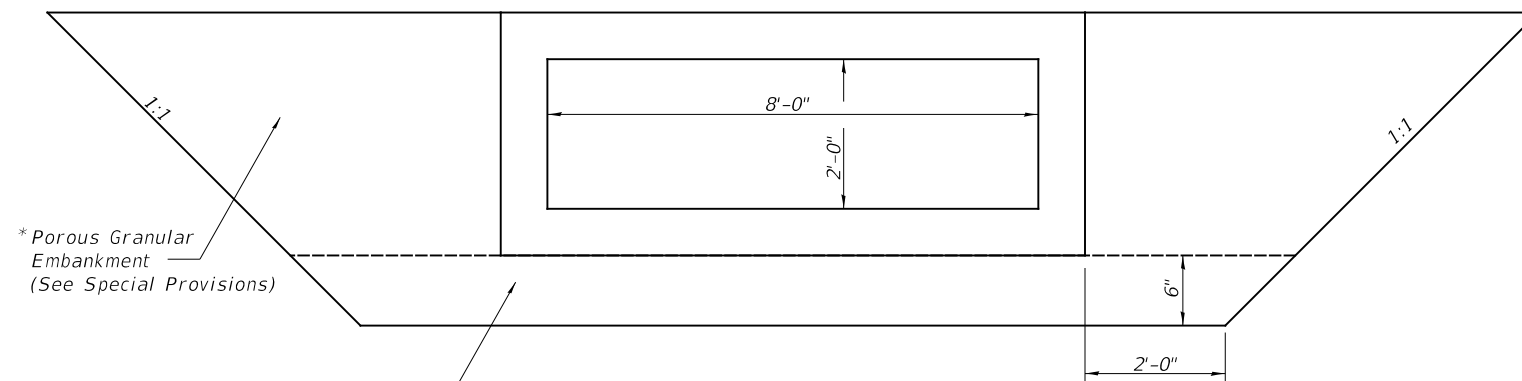
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal & Disposal of Unsuitable Material	CU YD	30
① Porous Granular Embankment	CU YD	55
Aggregate Surface Course, Type B	TON	15
Sawing P.C. Concrete Driveways	F00T	16
Portland Cement Concrete Driveway Pavement, 5"	SQ YD	35
Driveway Pavement Removal	SQ YD	10
Box Culvert End Sections, Culvert No. 1	EACH	2
Precast Concrete Box Culverts 8' X 2'	F00T	24
① Traversable Pipe Grate, Special	EACH	2
① Membrane Waterproofing System for Buried Structures	SQ YD	30

① See Special Provisions



*Last 3' from the outer face of the each end section toe walls shall be impervious material



*Porous Granular Embankment (See Special Provisions)

Unsuitable Material Removal and replacement with Porous Granular Embankment

SECTION THROUGH PRECAST BOX CULVERT

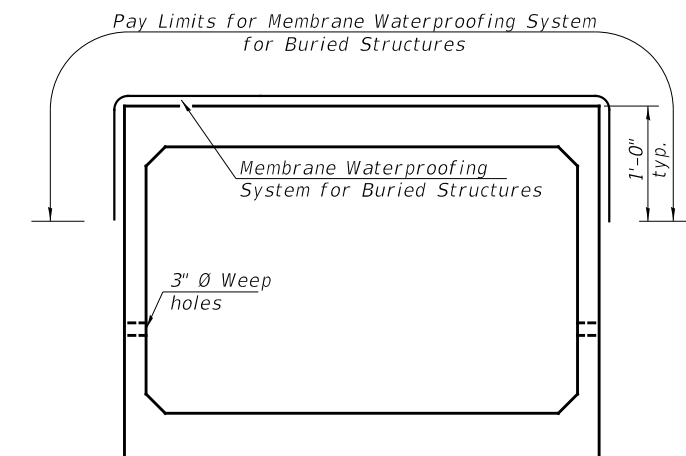
POROUS GRANULAR EMBANKMENT DETAIL AT PROPOSED BOX CULVERTS

BOX CULVERT BACKFILLING DETAIL

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment below the top of the box culvert extending to a vertical plane 2 ft from the exterior sides of the culvert, to 3 feet from the outer face of the end section toe walls and not closer than 2 ft from the face of embankment.

The work shown in the detail shall be performed in accordance with the applicable portions of Article 207 and Article 540 of the Standard Specifications. This work shall be paid for at the contract unit price per TON for Porous Granular Embankment.

Last 3' from the outer face of the each end section toe wall shall be impervious material, subject to approval of the Engineer.



MEMBRANE WATERPROOFING FOR BURIED STRUCTURES

GRANULAR CULVERT BACKFILL & BOX CULVERT DESIGN FILL							
STATION	PROPOSED BOX CULVERT SIZE	LENGTH (FEET)	TYPE	SKEW	DESIGN FILL		POROUS GRANULAR EMBANKMENT
					EDGE OF SHOULDER (MINIMUM)	PROFILE GRADE (MAXIMUM)	
17+27.00	8' X 2'	24	PRECAST	0°	1.00'	1.58'	55
TOTAL							55

SEE STANDARD PRECAST BOX CONFIGURATIONS IN ASTM C1577-11a

MODEL: I:\MODEL\MAME FILE NAME: 170223-01-42 over: Title to Little Mud Creek (I:\model\170223-01-42\170223-01-42.dwg) SHEETS: 1815-001.dwg

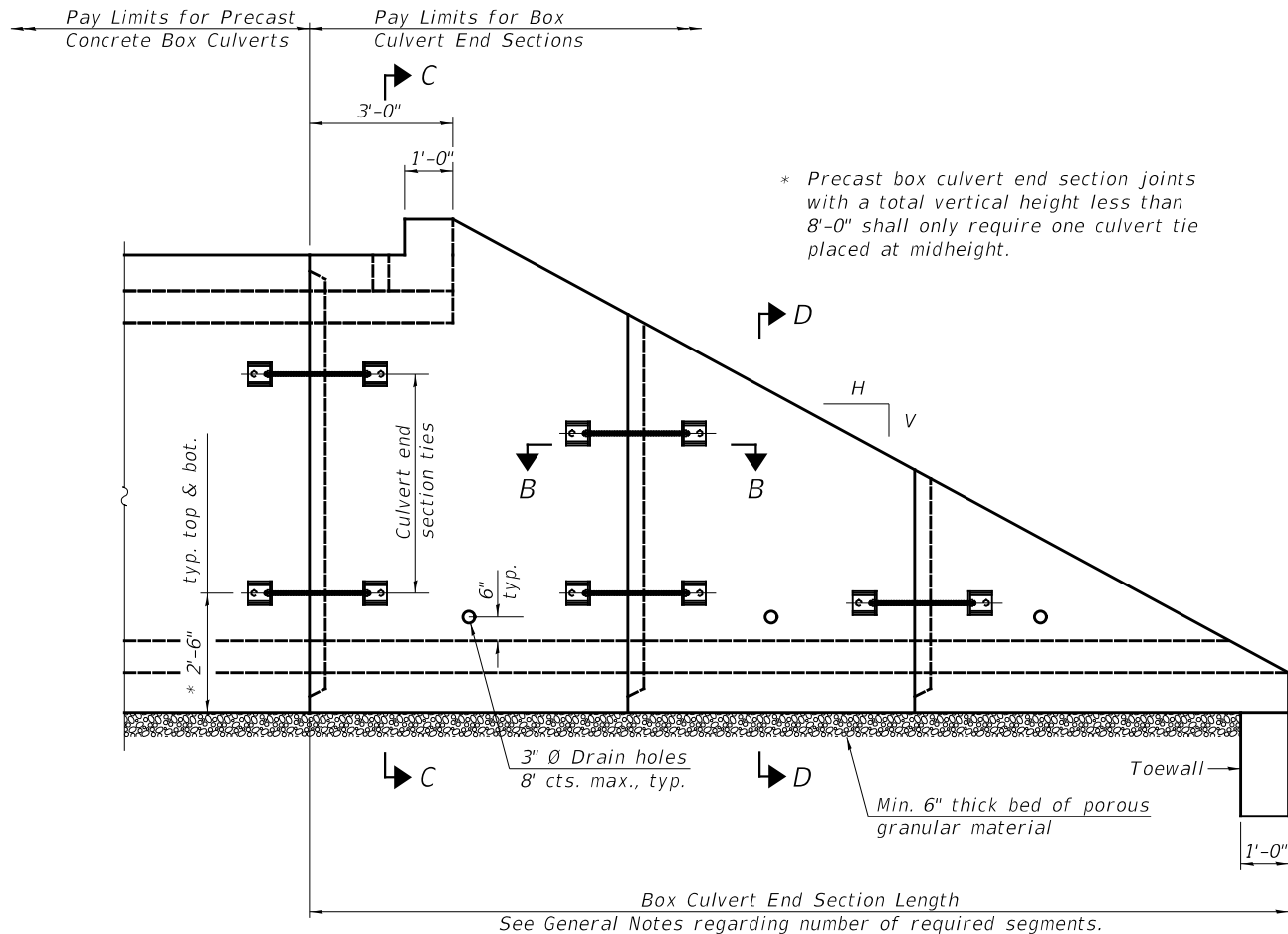
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	DRAWN - JPS	REVISED - _____
PLOT SCALE = 100,0000' / in.	CHECKED - STM	REVISED - _____
PLOT DATE = 3/23/2022	DATE - 3/13/2022	REVISED - _____

**IROQUOIS COUNTY
COUNTY HIGHWAY 42 OVER
TRIBUTARY TO LITTLE MUD CREEK**

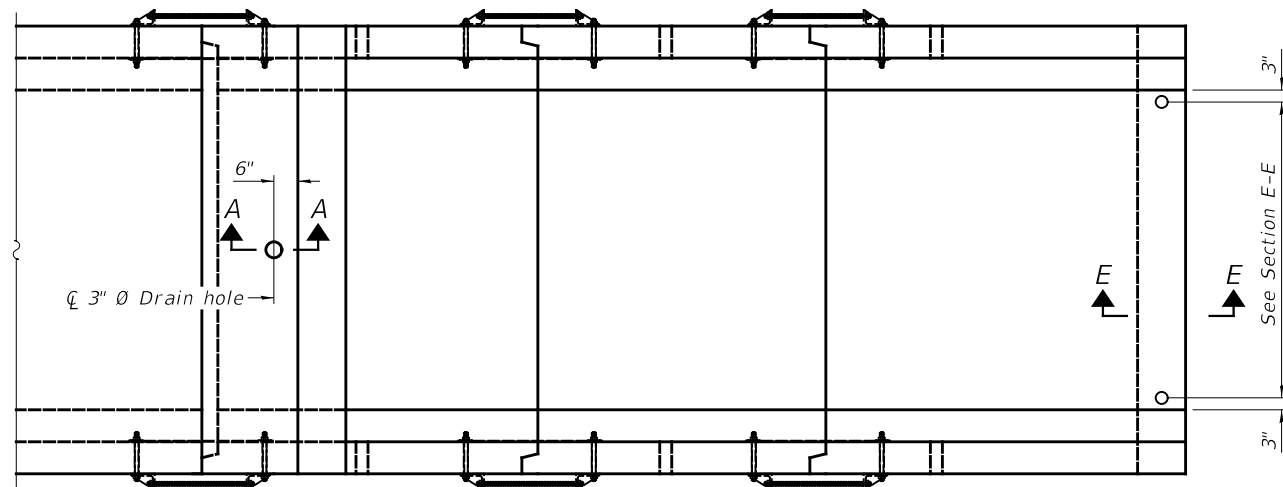
PRECAST BOX CULVERT AND DETAILS

SCALE: NONE SHEET NO. 1 OF 5 SHEETS STA. 17+27.00 TO STA. 17+27.00

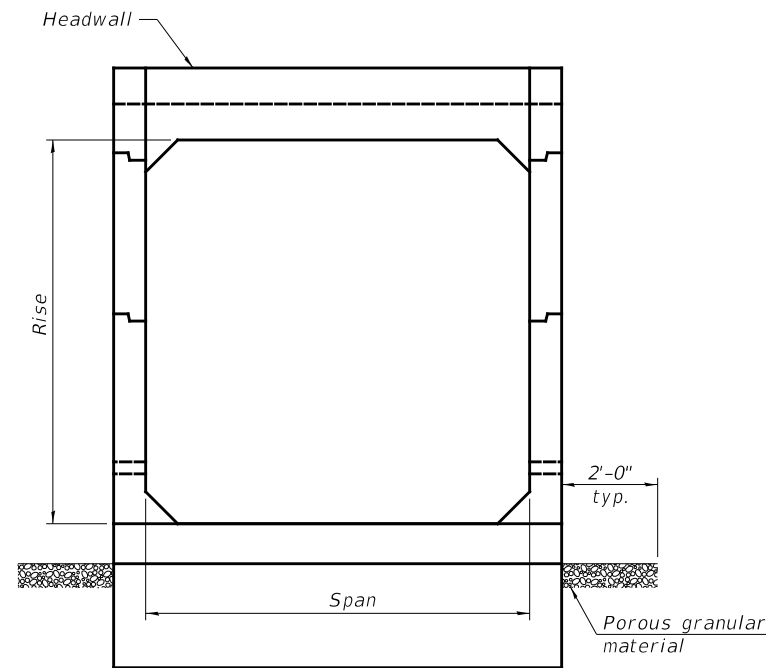
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1335	17-00234-00-BR	IROQUOIS	32	7
CONTRACT NO. 87769				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. UUK6(060)	



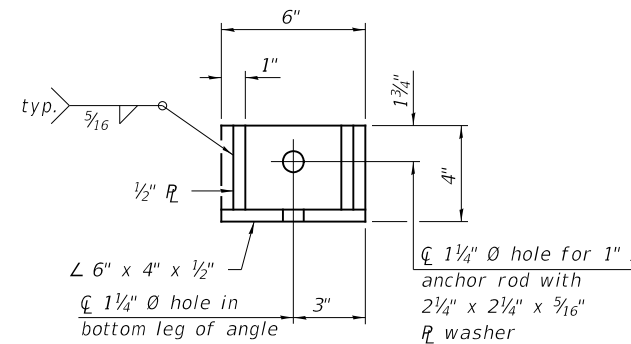
ELEVATION



PLAN



END VIEW



RESTRAINT ANGLE DETAIL

12" x 12" x 6" block of CA5, CA7, or CA11 coarse aggregate placed over drain opening. Block of aggregate shall be completely wrapped in nonwoven geotextile fabric.

Provide a double layer of 12" x 12" nonwoven geotextile fabric centered over the drain hole. Fabric shall be sealed to the concrete with mastic.

3" Ø PVC drain cast with the concrete (Adjust location to clear reinforcement).

1/2" Square foam blockout around PVC drain (to be removed with formwork)

SECTION A-A

(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.) (Sheet 1 of 2)

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. This work will be measured for payment as each, with each end of each culvert being one each. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Number of segments shown in Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

See roadway plans for embankment slope (V:H).

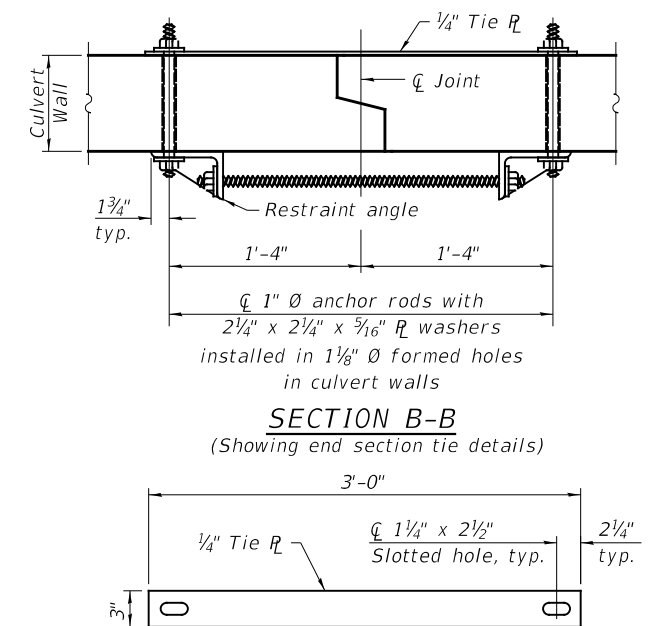
1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the contract unit price for Box Culvert End Sections of the culvert number specified.

Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd..

For end sections with traversable pipe grate systems, see grate detail sheet for required modifications.



TIE PLATE DETAIL

SCB-TES

2-17-2017

USER NAME = SMierzwa	DESIGNED - JPS	REVISED -
DRAWN - JPS	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - STM	REVISED -
PLOT DATE = 3/15/2022	DATE - 3/13/2022	REVISED -

**IROQUOIS COUNTY
COUNTY HIGHWAY 42 OVER
TRIBUTARY TO LITTLE MUD CREEK**

SINGLE CELL PRECAST BOX CULVERT TAPERED END SECTIONS

SCALE: NONE SHEET NO. 2 OF 5 SHEETS STA. 17+27.00 TO STA. 17+27.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1335	17-00234-00-BR	IROQUOIS	32	8
CONTRACT NO. 87769				
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NO. UUK6(060)		

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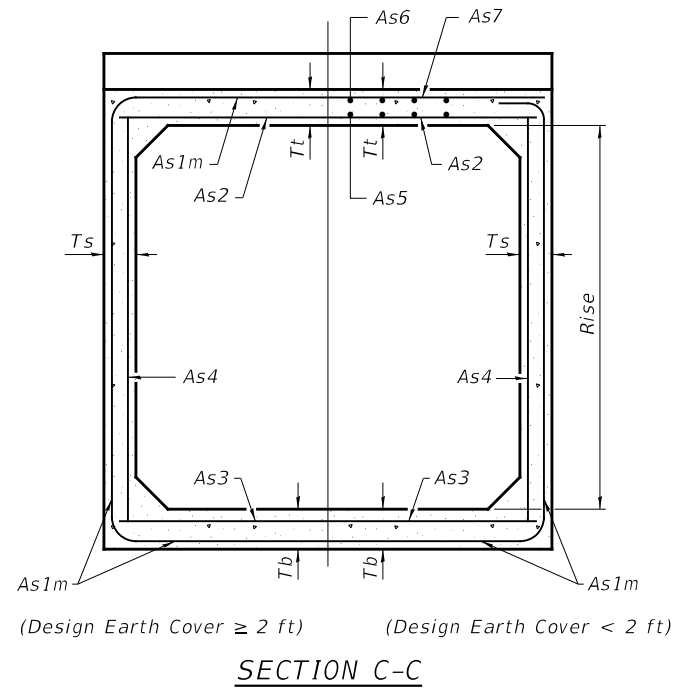
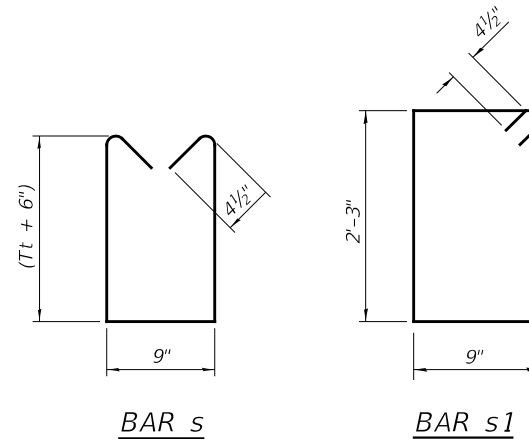
		As1m REINFORCEMENT										
		(in. ² /ft)										
Ts (in.)	Rise (ft)	2	3	4	5	6	7	8	9	10	11	12
4	0.19	0.17										
5	0.26	0.21	0.18									
6	0.22	0.26	0.23	0.22								
7	0.25	0.33	0.59	0.27	0.28							
8	0.40	0.35	0.43	0.39	0.36	0.34	0.40					
9	0.44	0.39	0.35	0.43	0.40	0.37	0.36	0.48				
10	0.48	0.42	0.38	0.47	0.44	0.41	0.38	0.42	0.56			
11	0.52	0.45	0.54	0.50	0.46	0.44	0.41	0.46	0.50	0.65		
12	0.55	0.49	0.58	0.54	0.50	0.48	0.45	0.46	0.46	0.61	0.75	

(As1m reinforcement based upon welded wire reinforcement conforming to AASHTO M 55 or M 221).

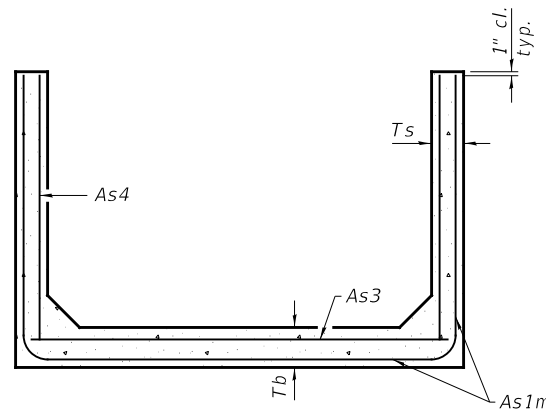
Notes:
 Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.
 The size and spacing of the v2 bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to 1.10*(As1m). v2 bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.
 Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.

ℓ₁ DIMENSION

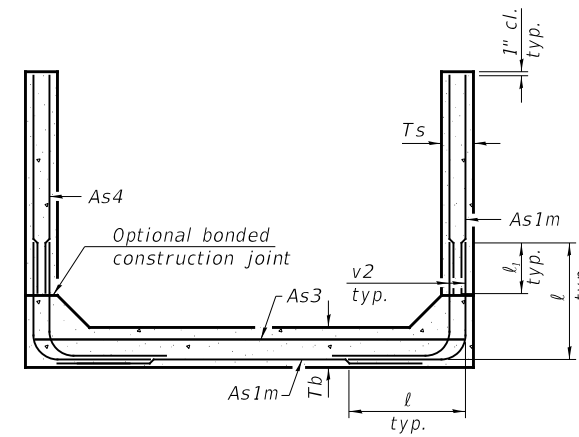
- #3 bar = 2'-0"
- #4 bar = 2'-8"
- #5 bar = 3'-4"
- #6 bar = 3'-11"



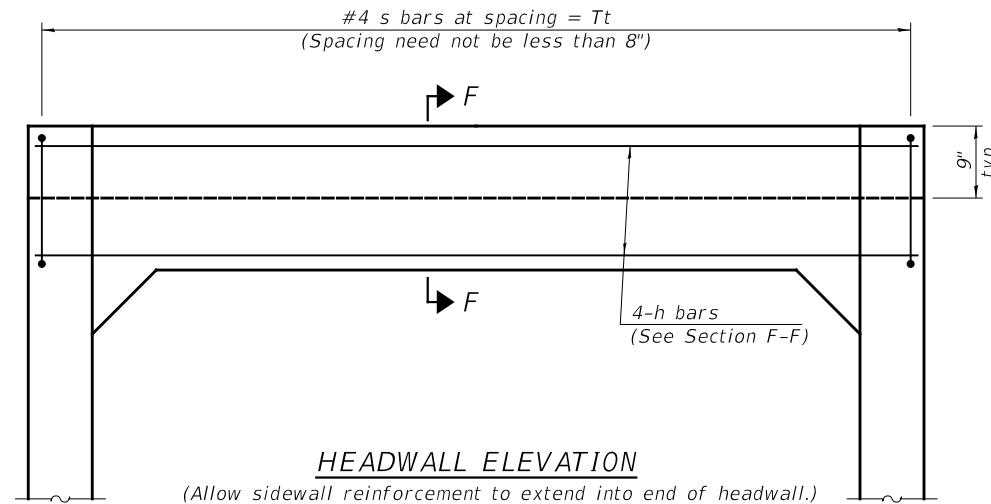
SECTION C-C



SECTION D-D



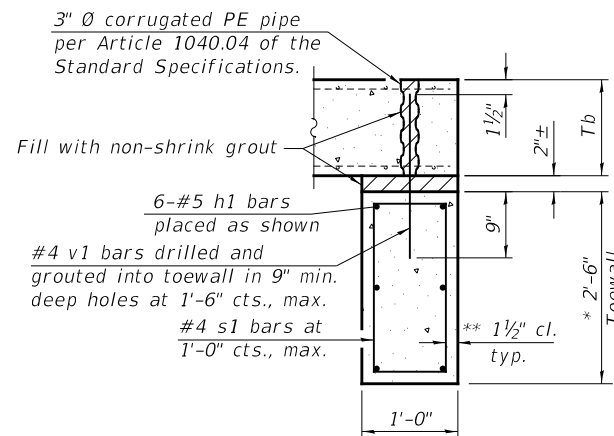
ALTERNATE SECTION D-D



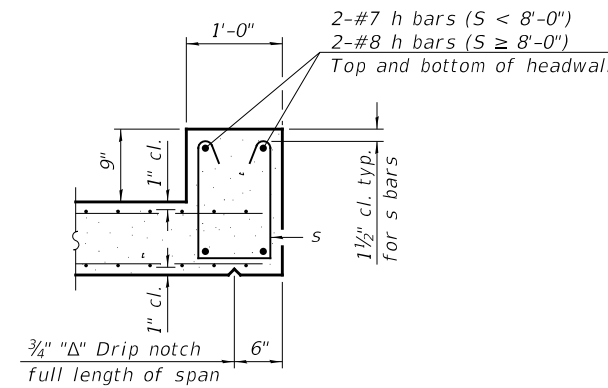
HEADWALL ELEVATION

TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
 2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
 3. Set precast box culvert end section.
 4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
 5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.
- * The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling the method.
- ** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



SECTION E-E



SECTION F-F

(Sheet 2 of 2)

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 DATE: 3/13/2022

SCB-TES

2-17-2017

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DRAWN - JPS	REVISED -	
PLOT SCALE = 100.0000' / in.	CHECKED - STM	REVISED -
PLOT DATE = 3/15/2022	DATE - 3/13/2022	REVISED -

**IROQUOIS COUNTY
 COUNTY HIGHWAY 42 OVER
 TRIBUTARY TO LITTLE MUD CREEK**

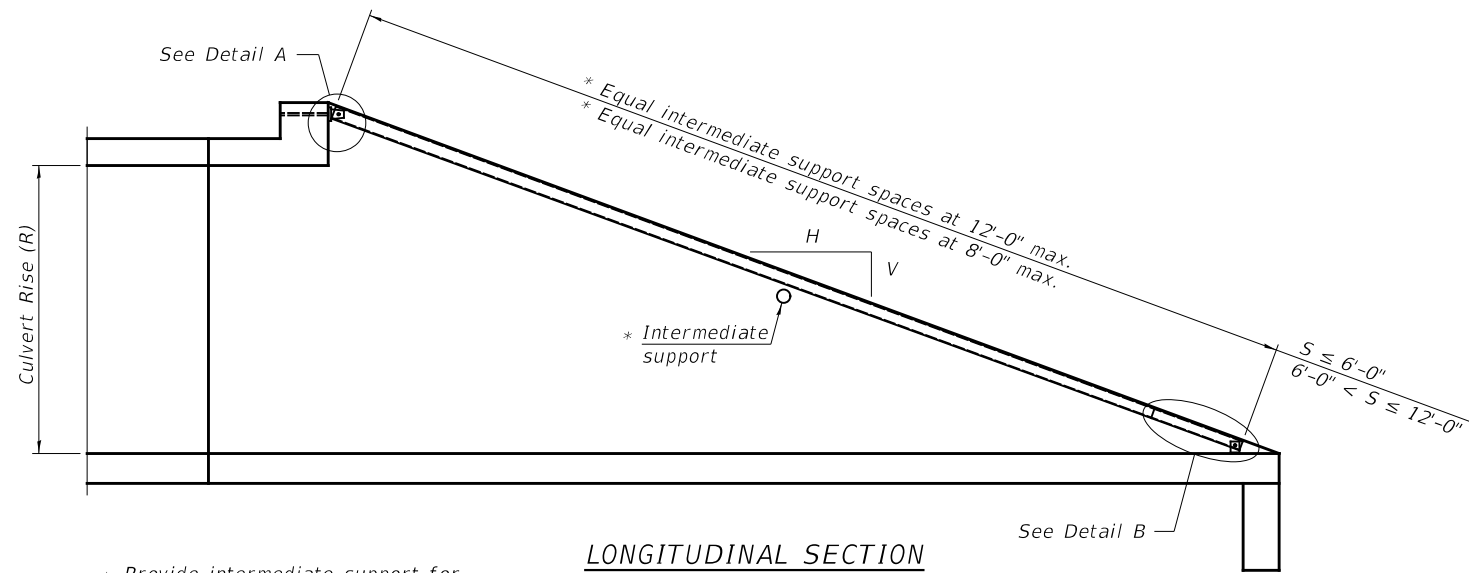
SINGLE CELL PRECAST BOX CULVERT TAPERED END SECTIONS

SCALE: NONE SHEET NO. 3 OF 5 SHEETS STA. 17+27.00 TO STA. 17+27.00

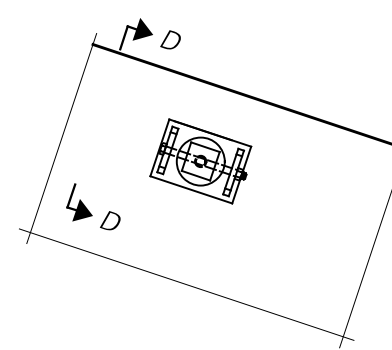
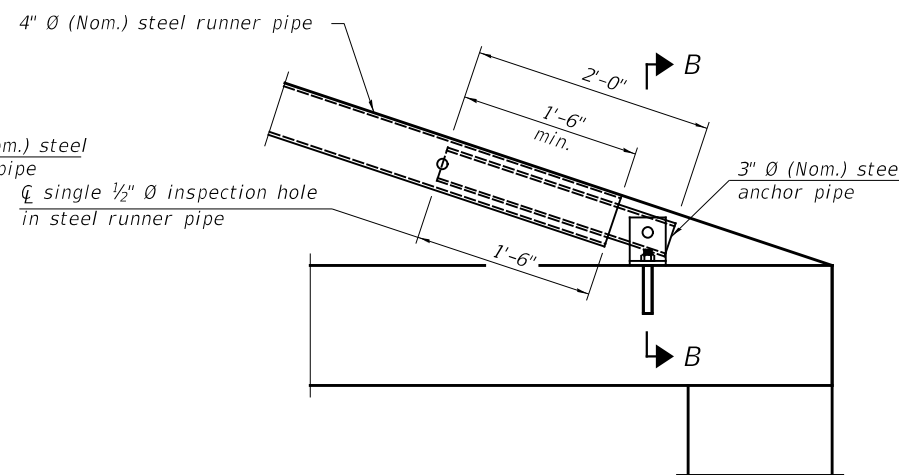
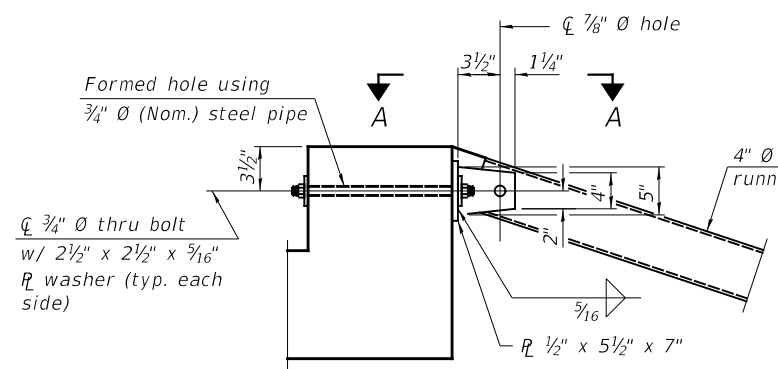
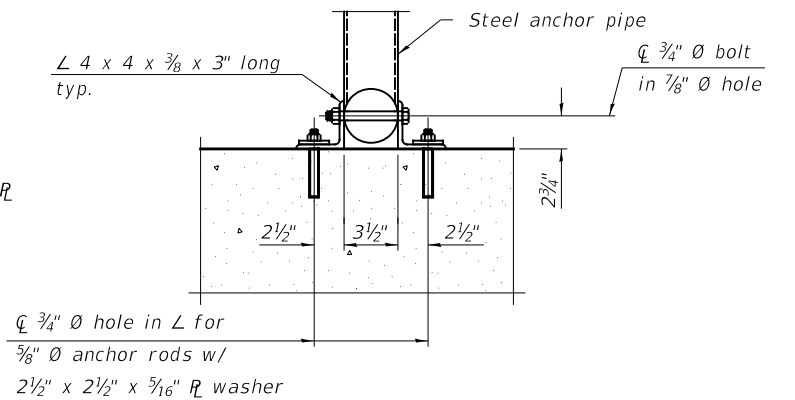
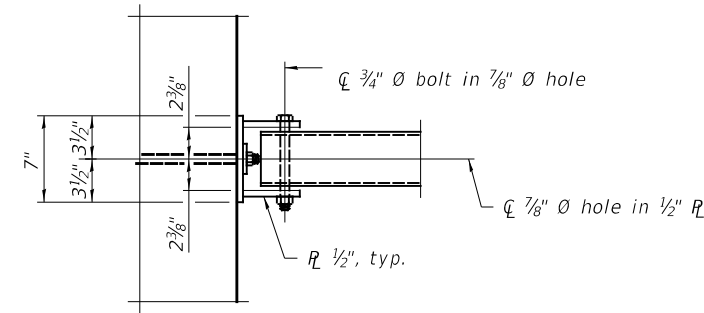
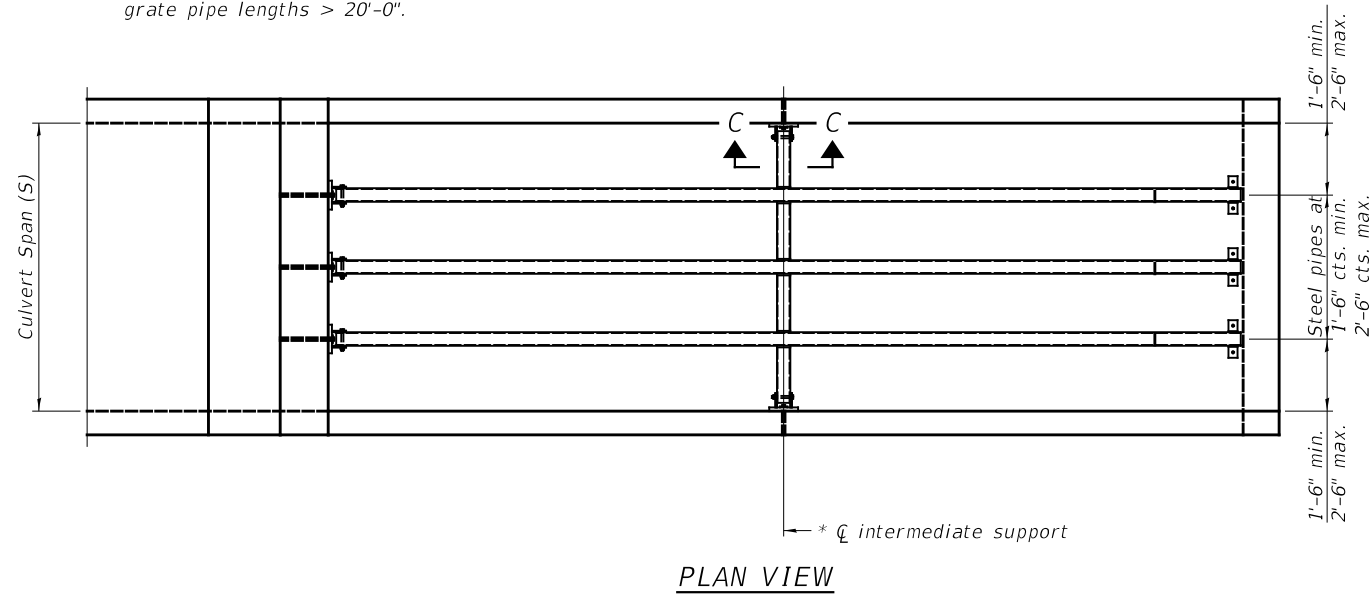
F.A.S. RTE. 1335	SECTION 17-00234-00-BR	COUNTY IROQUOIS	TOTAL SHEETS 32	SHEET NO. 9
CONTRACT NO. 87769			FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO. UUK61060	

GENERAL NOTES

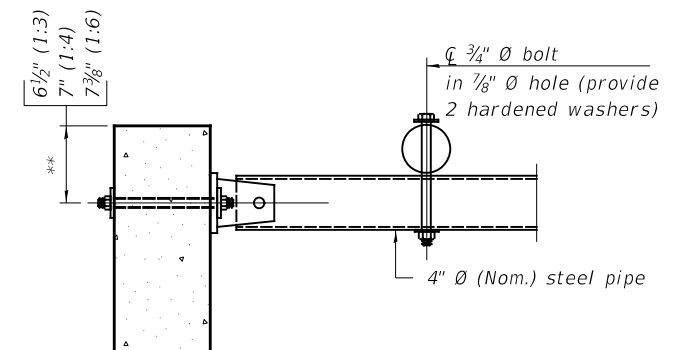
The minimum edge distance from the center of a hole to the free edge of a structural shape or plate shall be 1½" unless noted otherwise.
 This standard shall only be used on concrete end sections not skewed more than ±15 degrees with roadway.
 The Contractor may install the thru bolts using drilling and grouting in lieu of providing a formed hole using steel pipe. Installation shall be in accordance with Article 509.06 using a method that results in the annulus surrounding the bolt being completely filled with adhesive. The method of drilling shall not result in spalled concrete at the exit face. Epoxy grouted thru bolts shall be snug tightened followed by an additional ½ turn on the interior nut at final installation. Cost included with Traversable Pipe Grate.



* Provide intermediate support for grate pipe lengths > 20'-0".



(See Detail A for dimensions and details not shown.)



** Measured perpendicular to top of culvert wall. In addition, formed hole shall be located a minimum of 6" measured horizontally from any vertical joints necessary for construction of the culvert end section.

MODEL: 1400BELMAME FILE NAME: 021913 - C1-42 over Title to Little Mud Creek (Iron)CAD/CADD Sheets: 815-c004.dgn

TPGBC-ZS

2-17-2017

(Sheet 1 of 2)

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DRAWN - JPS	REVISED - _____	
PLOT SCALE = 100.0000' / in.	CHECKED - STM	REVISED - _____
PLOT DATE = 3/15/2022	DATE - 3/13/2022	REVISED - _____

**IROQUOIS COUNTY
 COUNTY HIGHWAY 42 OVER
 TRIBUTARY TO LITTLE MUD CREEK**

TRAVERSABLE PIPE GRATE FOR BOX CULVERTS

SCALE: NONE SHEET NO. 4 OF 5 SHEETS STA. 17+27.00 TO STA. 17+27.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1335	17-00234-00-BR	IROQUOIS	32	10
CONTRACT NO. 87769				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. UUK6(060)	

B.M.: RR Spike in Power Pole Sta. 17+85, 38' Rt. Elev. 664.57
 R.R. Spike in Power Pole Sta. 23+50, 31' Rt. Elev. 665.08

Existing Structure:
 Single span concrete slab bridge supported on closed concrete abutments with concrete wingwalls. The structure is 28'-0" back to back of abutments, 26'-6" out to out deck, and is skewed ±15° Rt. ahead.
 Str. No. 038-3008

Salvage: None

Road to be closed to traffic during construction.

*Terminal Marker-Direct Applied to be placed on Curled End Sections in accordance with Std. 725001

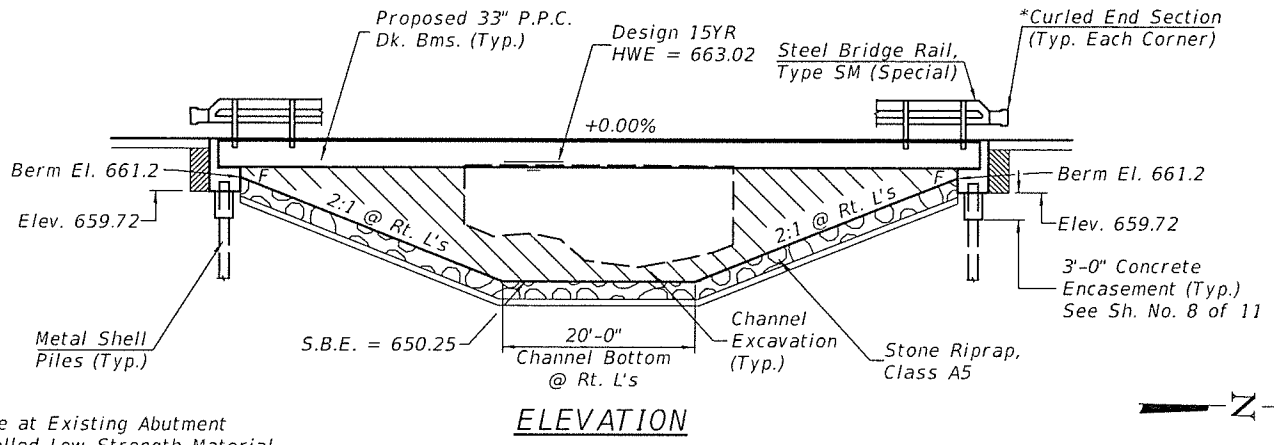
**Abandoned 18" Clay Pipe at Existing Abutment to be Filled with Controlled Low-Strength Material. (See Special Provisions)

TRIBUTARY TO LITTLE MUD CREEK
 BUILT 202 BY
 IROQUOIS COUNTY
 SEC 17-00234-00-BR
 C.H. 42 STATION 20+03.00
 F.A. PROJ. NO. UUKE(060)
 STR. NO. 038-3016 LOADING HL-93

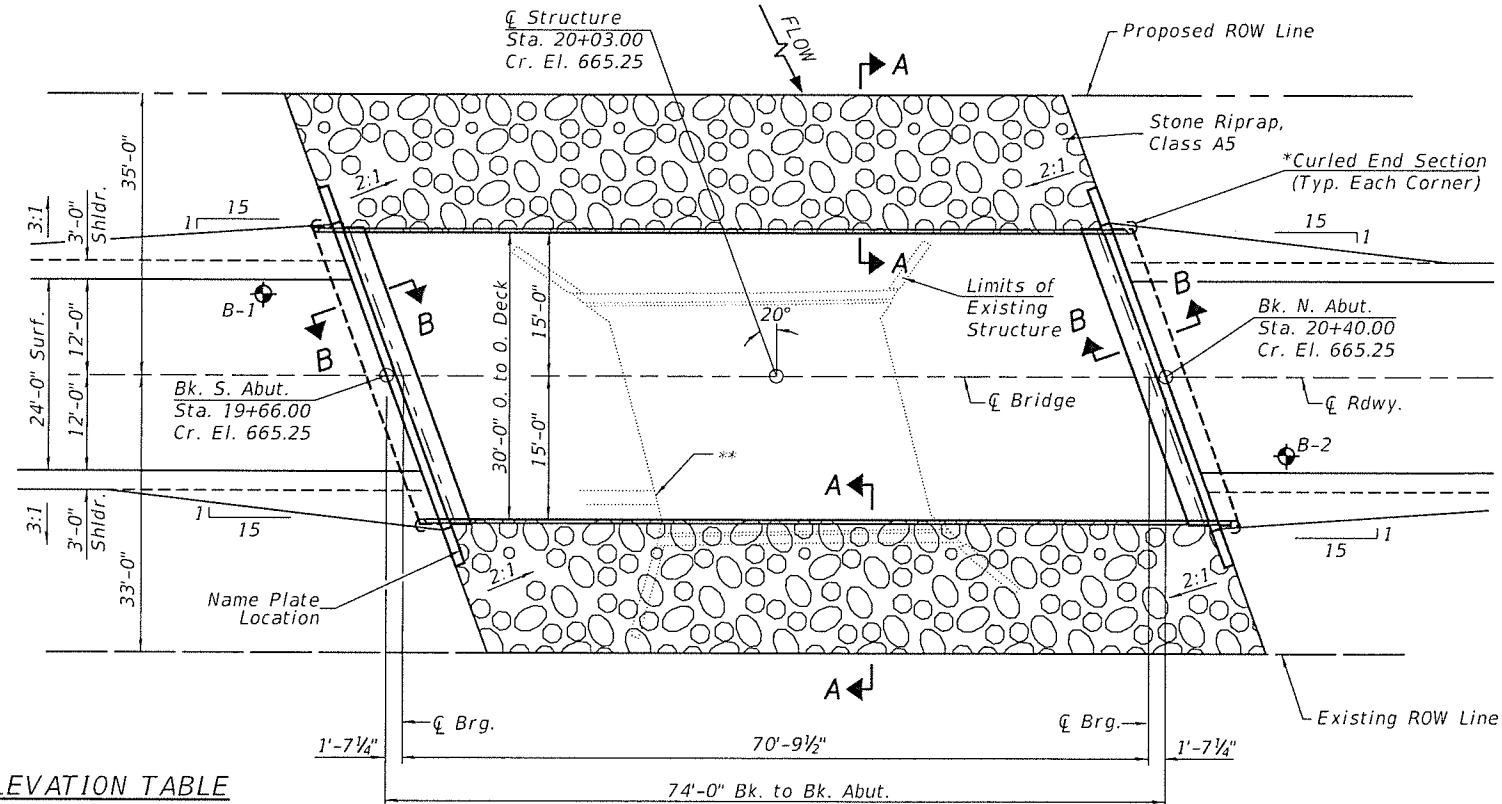
NAME PLATE

Locate Name Plate at S.E. Wingwall Corner of Bridge (See Std. 515001)

PROFILE GRADE



ELEVATION



PLAN

DESIGN SPECIFICATIONS
 2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

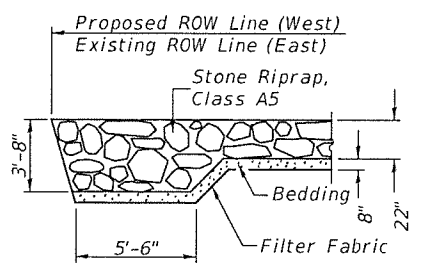
DESIGN STRESSES

(FIELD UNITS) (PRECAST PRESTRESSED UNITS)
 f'c = 3,500 p.s.i. f'c = 6,000 p.s.i.
 fy = 60,000 p.s.i. (Rein.) f'ci = 5,000 p.s.i.
 f's = 270,000 p.s.i. (1/2" Strands)
 f'si = 201,960 p.s.i. (1/2" Strands)

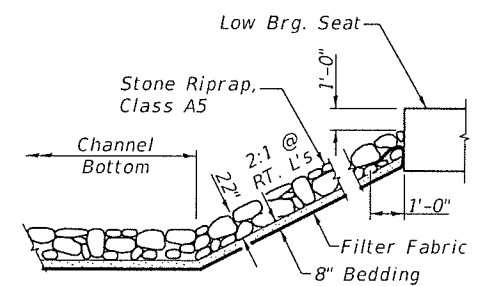
LOADING HL-93

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

SECTION A-A

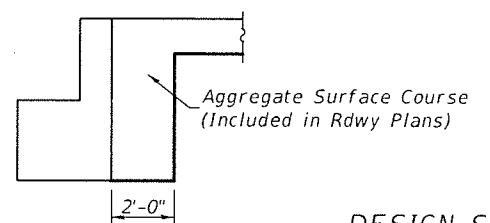


STONE RIPRAP DETAIL



SECTION B-B

See Special Provisions for gradation requirements.



DESIGN SCOUR ELEVATION TABLE

	Design Scour Elevations (ft.)		Item 113
	S. Abut.	N. Abut.	
Q100	659.7	659.7	8
Q200	659.7	659.7	
Design	659.7	659.7	
Check	659.7	659.7	

OVER-THE-ROAD AREA

Freq. Yr.	Exist.	Prop.
15	0	0
100	194	0

WATERWAY INFORMATION

Drainage Area = 8.94 Sq. Mi. Low Grade Elev. = 664.66 @ Sta. 15+93.00

	Flood Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	15	1,503	232	524	663.02	0.73	0.13	663.75	663.15
Base	100	2,420	232	524	664.02	0.53	0.66	664.55	664.68

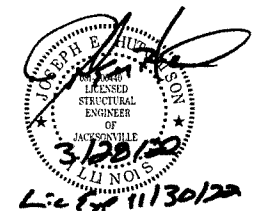
GENERAL NOTES

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the remainder of the piles.
 For Soil Boring Logs, See Sheets 9 thru 11 of 11.
 A Corrosion Inhibitor shall be used in the concrete for Precast Prestressed Concrete Deck Beams according to Articles 1020.05(b)(10) and 1021.07 of the Standard Specifications.
 Reinforcement Bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

TOTAL BILL OF MATERIAL

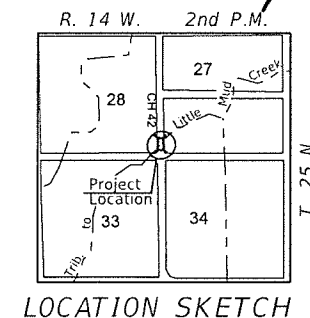
ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	CU YD	—	650	650
Stone Riprap, Class A5	TON	—	700	700
Filter Fabric	SQ YD	—	615	615
① Removal of Existing Structures	EACH	—	—	1
Structure Excavation	CU YD	—	60	60
Concrete Structures	CU YD	—	28.8	28.8
Concrete Encasement	CU YD	—	2.6	2.6
Precast Prestressed Concrete Deck Beams (33" Depth)	SQ FT	2,160	—	2,160
Reinforcement Bars	POUND	—	3,110	3,110
Furnishing Metal Shell Piles 12"x0.250"	FOOT	—	440	440
Driving Piles	FOOT	—	440	440
Test Pile Metal Shells	EACH	—	2	2
Name Plates	EACH	—	1	1
① Controlled Low-Strength Material	CU YD	—	8.0	8.0
Terminal Marker - Direct Applied	EACH	4	—	4
Steel Bridge Rail, Type SM (Special)	FOOT	148	—	148

① See Special Provisions



I certify that to the best of my 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 Standard Specification for Highway Bridges.
 This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

Joseph E. Hult 3128122
 Illinois Structural No. 6440
 Expires 11/30/2022



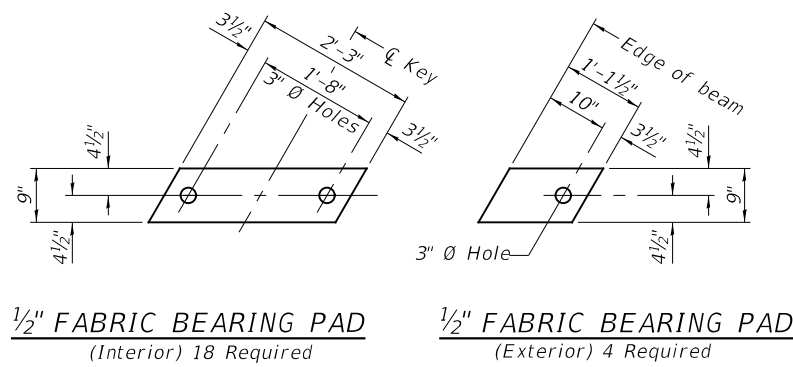
LOCATION SKETCH

GENERAL PLAN AND ELEVATION

IROQUOIS COUNTY
 SECTION 17-00234-00-BR
 F.A.S. 1335 (C.H. 42) OVER
 TRIB. TO LITTLE MUD CREEK

SHEET NO.	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	1335	17-00234-00-BR	IROQUOIS	32	12
S.N. 038-3016			CONTRACT NO. 87769		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. UUKE(060)		

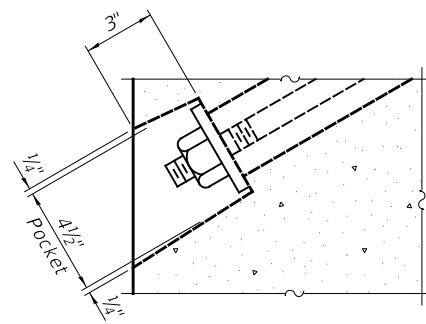
SFLESS SDATES STIMES



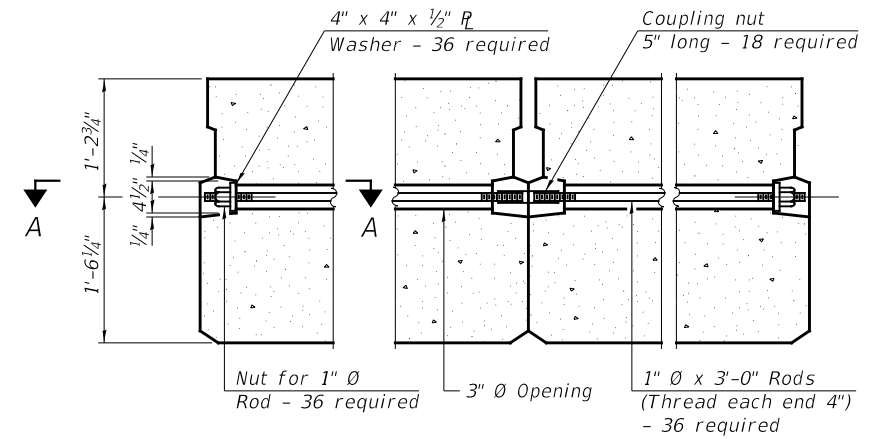
1/2" FABRIC BEARING PAD
(Interior) 18 Required

1/2" FABRIC BEARING PAD
(Exterior) 4 Required

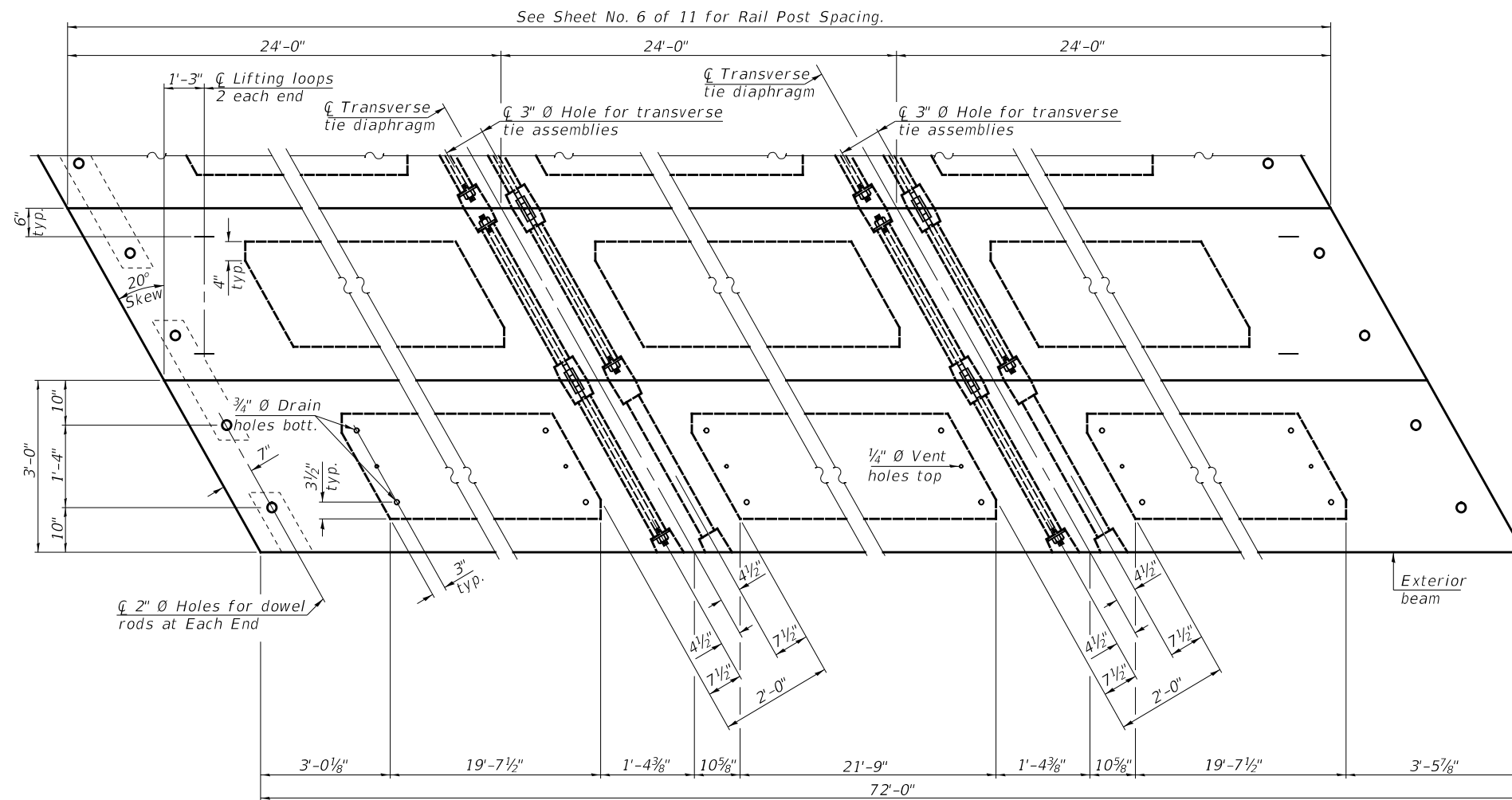
FIXED



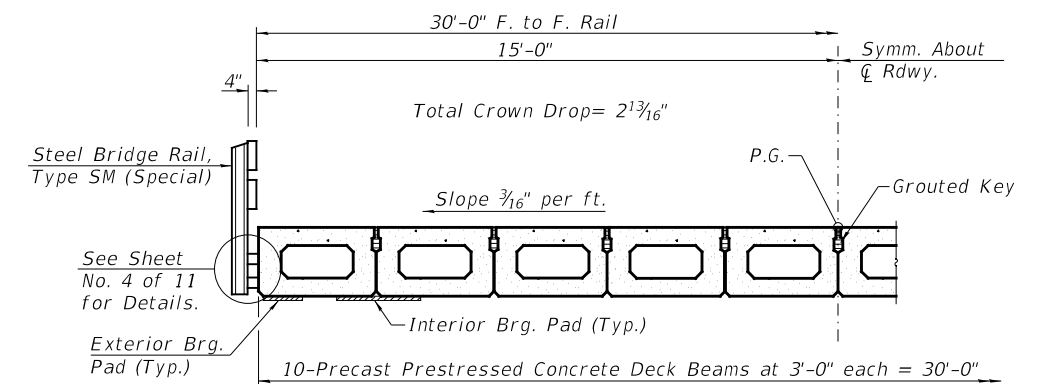
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW



HALF CROSS SECTION

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Precast Prestressed Concrete Deck Beams (33" Depth)	SQ FT	2,160

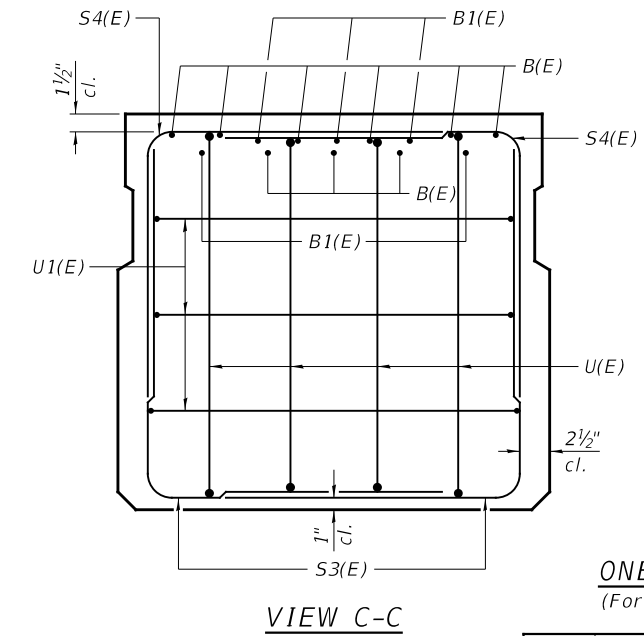
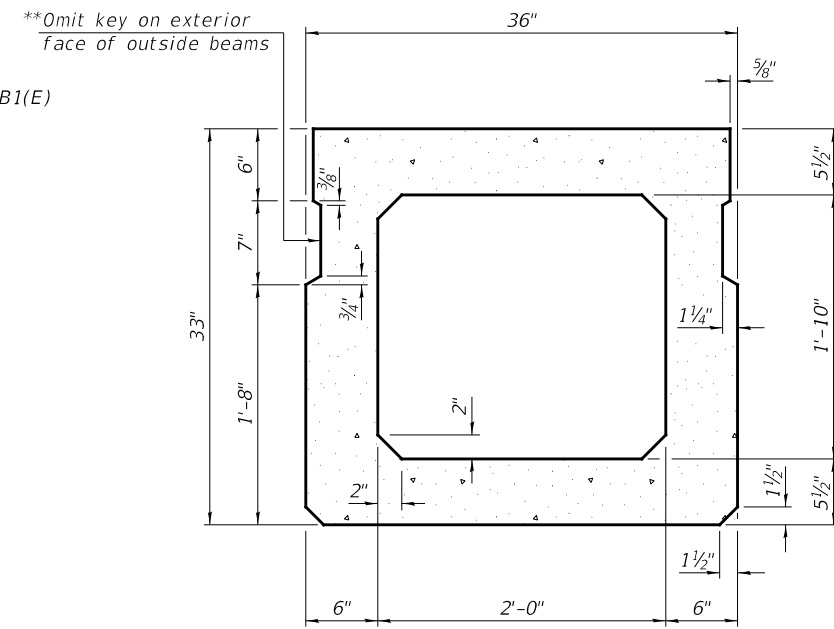
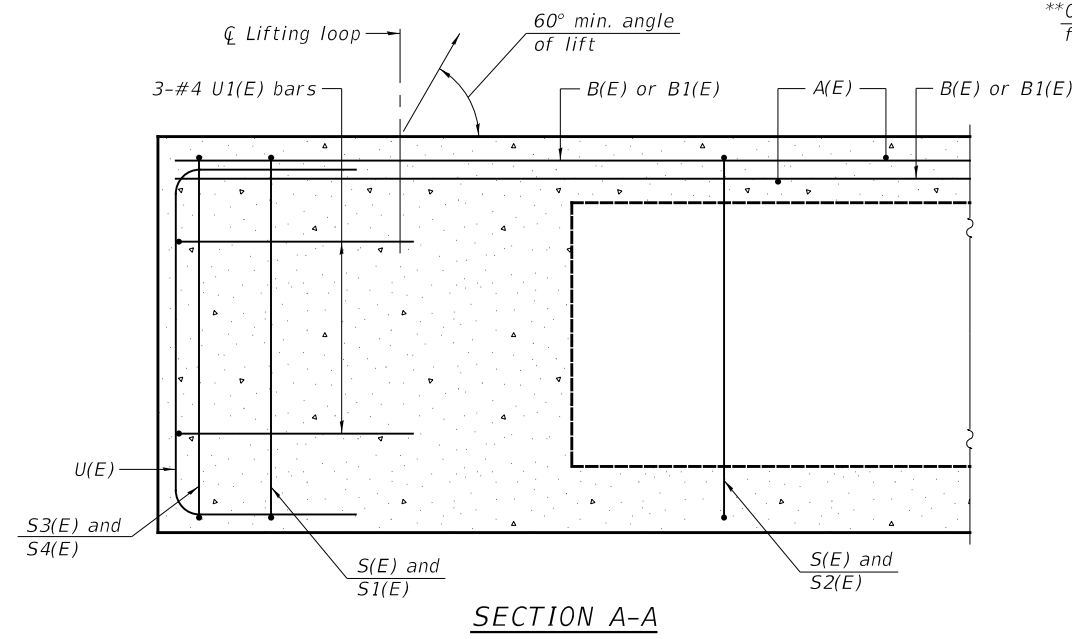
Note:
Connect beams in pairs with the transverse tie configuration shown.

NOTES

- 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.
- The 1" 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.
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.
- 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.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

SUPERSTRUCTURE
IROQUOIS COUNTY
SECTION 17-00234-00-BR
F.A.S. 1335 (C.H. 42) OVER
TRIB. TO LITTLE MUD CREEK

SHEET NO. 2 11 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1335	17-00234-00-BR	IROQUOIS	32	13
	S.N. 038-3016		CONTRACT NO. 87769		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. UUK(060)		

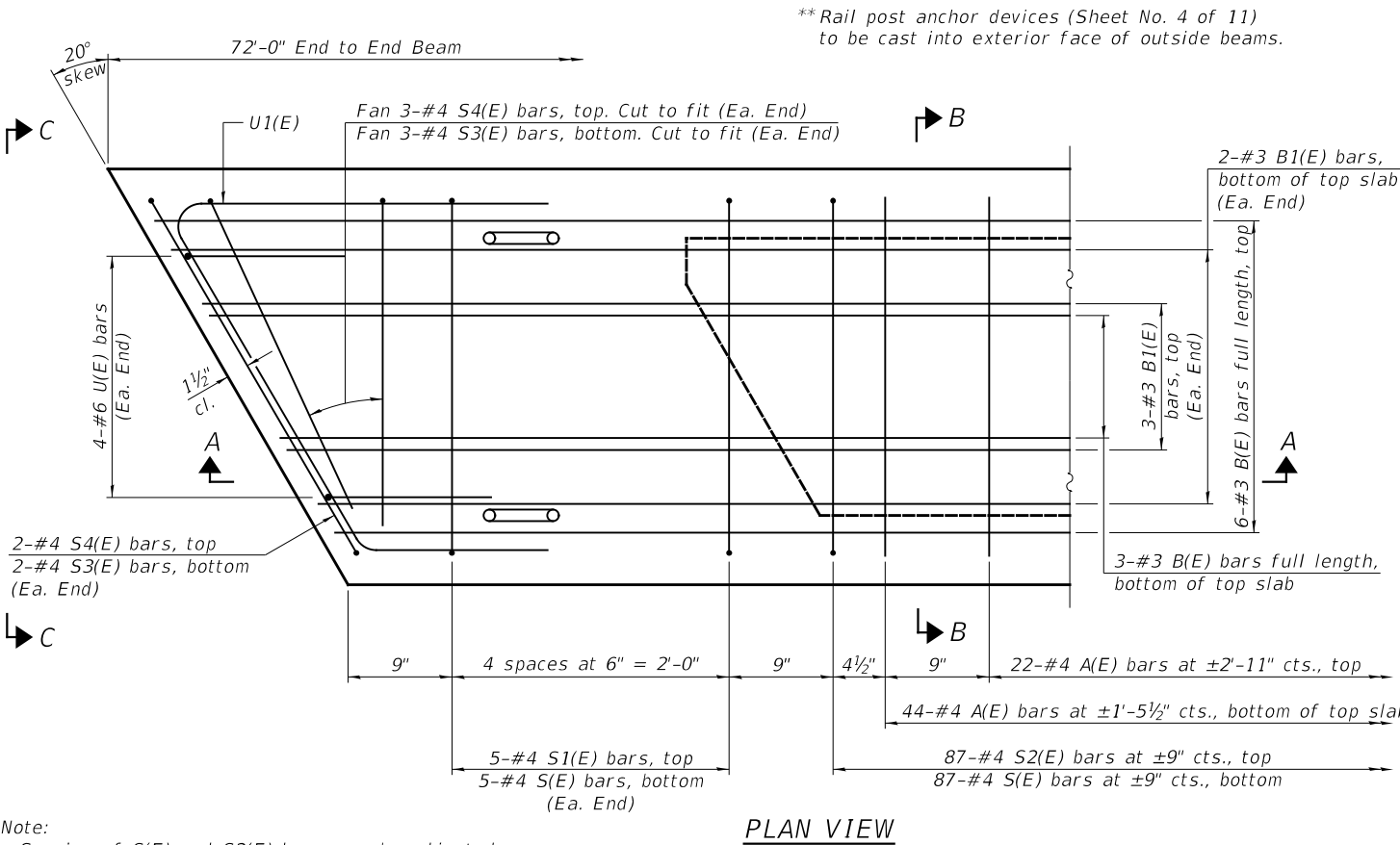


BAR LIST
ONE BEAM ONLY
(For information only)

BAR	NO.	SIZE	LENGTH	SHAPE
A(E)	66	#4	2'-7"	—
B(E)	9	#3	*71'-9"	—
B1(E)	10	#3	10'-0"	—
S(E)	97	#4	7'-8"	⌋
S1(E)	10	#4	6'-5"	⌋
S2(E)	87	#4	6'-8"	⌋
S3(E)	10	#4	5'-4"	⌋
S4(E)	10	#4	4'-8"	⌋
U(E)	8	#6	5'-0"	⌋
U1(E)	6	#4	6'-1"	⌋

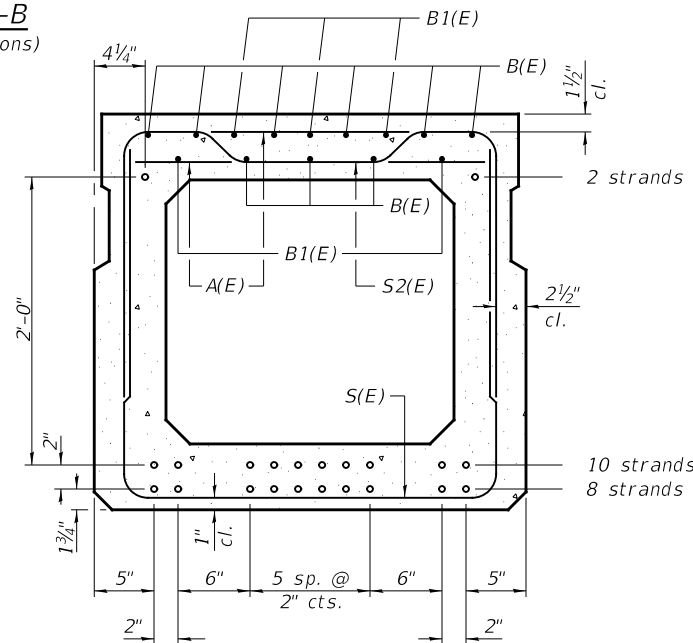
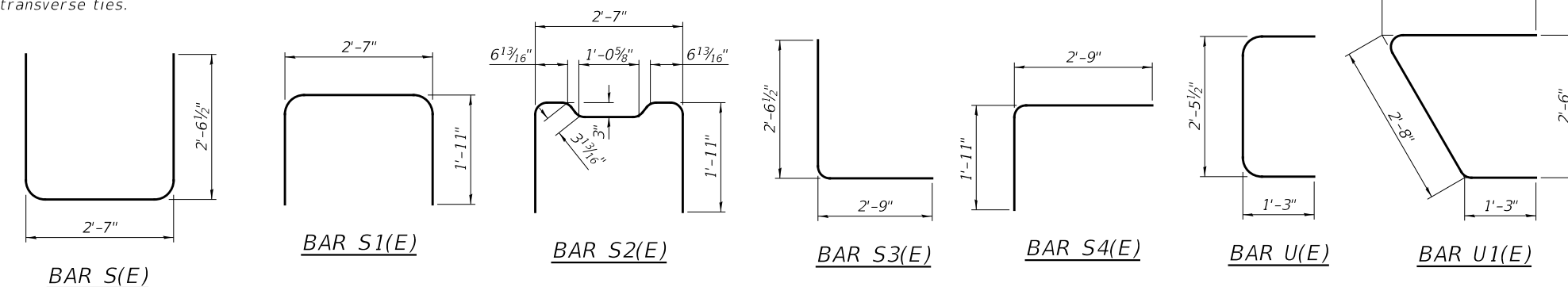
Note:
See Sheet No. 2 of 11 for additional details and Bill of Material.

*Total length, lap as necessary.
MINIMUM BAR LAP
#3 bar = 1'-6"



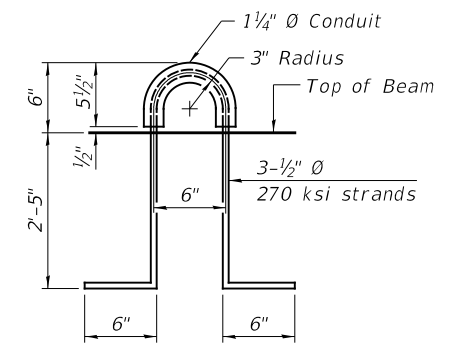
PLAN VIEW

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)
20-1/2" Ø Strands Each Strand Stressed to 30,900 Lbs.
8-Strands 1 3/4" up, 10-Strands 3 3/4" up, 2-Strands 2 3/4" up.

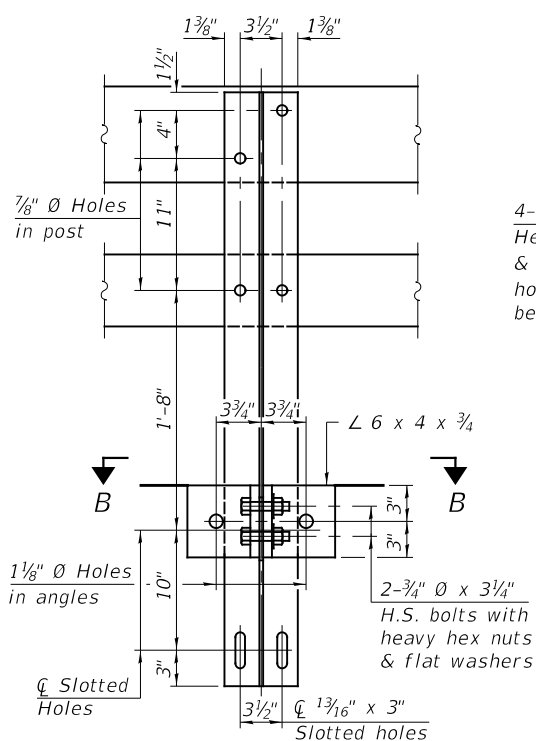
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



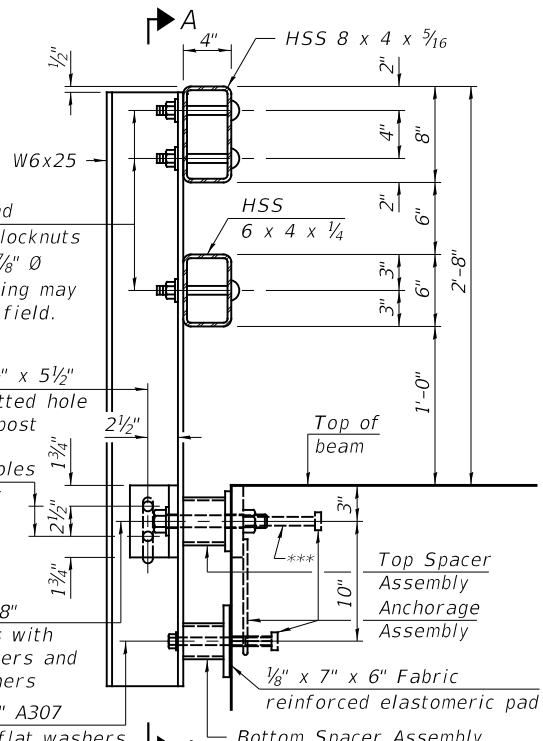
LIFTING LOOP DETAIL

SUPERSTRUCTURE DETAILS
IROQUOIS COUNTY
SECTION 17-00234-00-BR
F.A.S. 1335 (C.H. 42) OVER
TRIB. TO LITTLE MUD CREEK

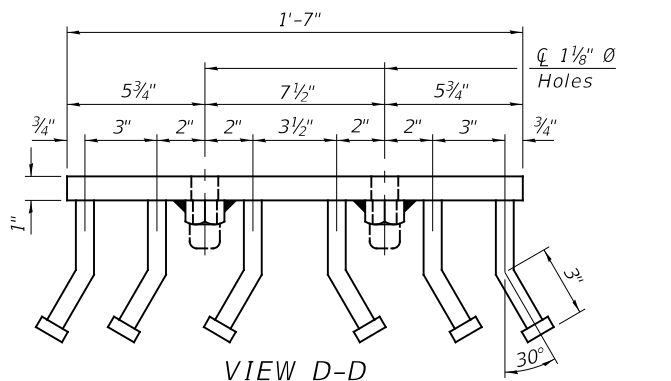
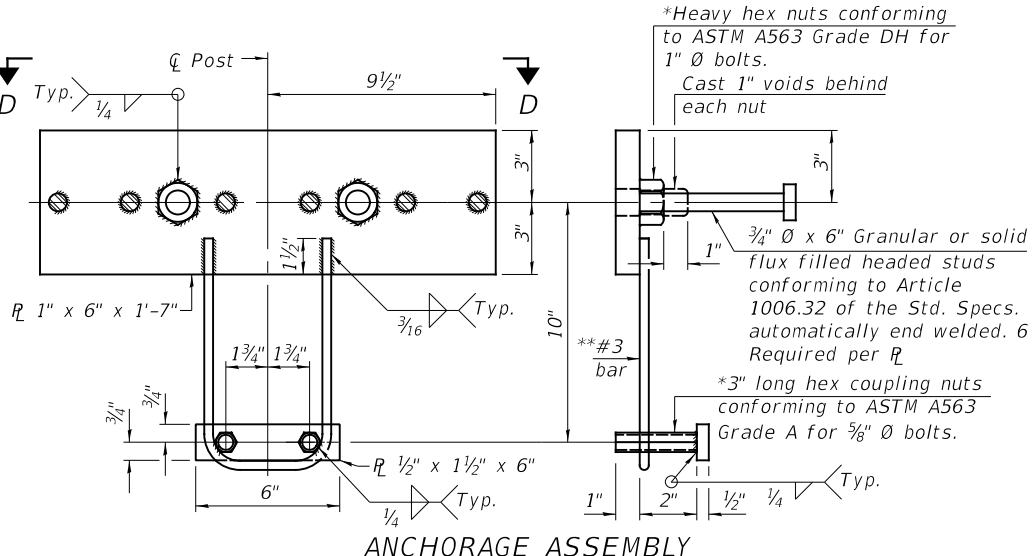
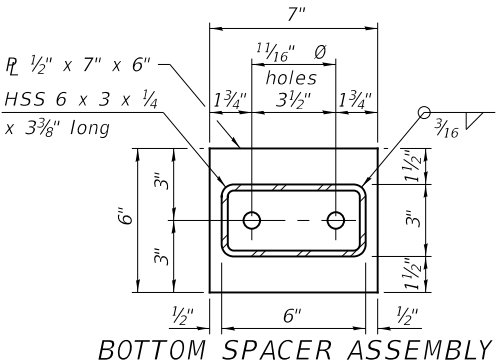
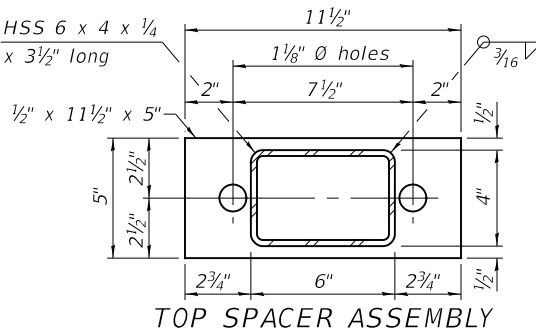
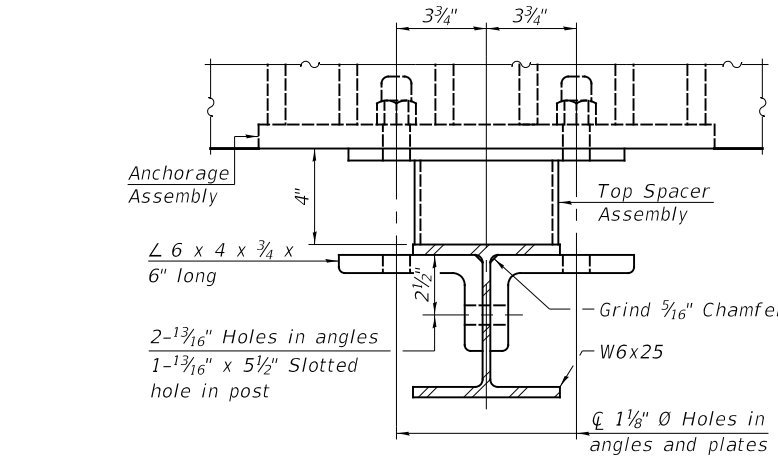
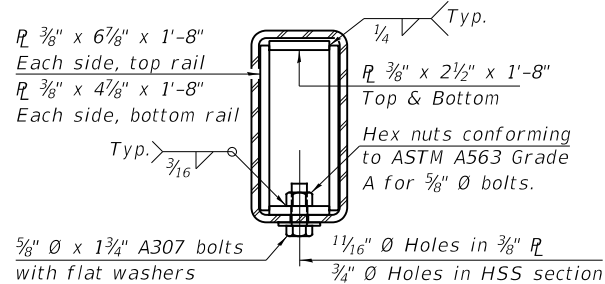
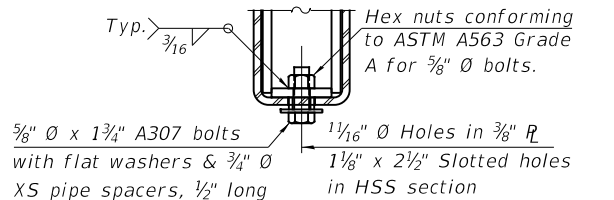
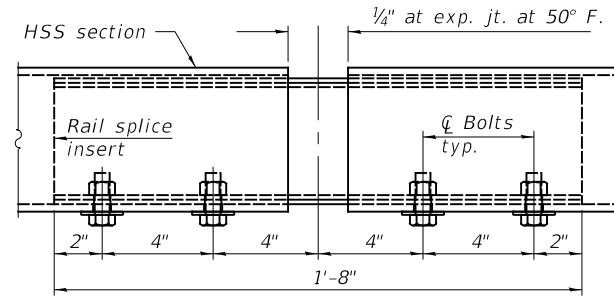
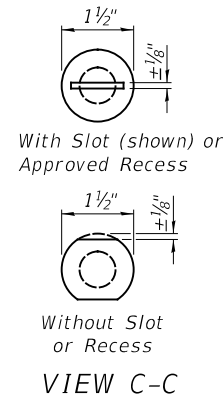
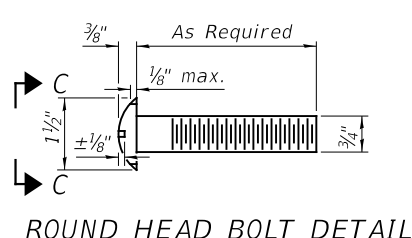
SHEET NO. 3 11 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1335	17-00234-00-BR	IROQUOIS	32	14
	S.N. 038-3016		CONTRACT NO. 87769		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. UUK(060)		



4- $\frac{3}{4}$ " \varnothing x 6" Round Head Bolts with locknuts & flat washers. $\frac{7}{8}$ " \varnothing holes in HSS tubing may be drilled in the field.



W6x25
HSS 8 x 4 x $\frac{5}{16}$
HSS 6 x 4 x $\frac{1}{4}$
 $\frac{13}{16}$ " x $5\frac{1}{2}$ " slotted hole in post
 $1\frac{3}{4}$ " \varnothing holes in angles
Top of beam
Top Spacer Assembly Anchorage Assembly
 $\frac{1}{8}$ " x 7" x 6" Fabric reinforced elastomeric pad
Bottom Spacer Assembly
2- $\frac{3}{4}$ " \varnothing x $3\frac{1}{4}$ " H.S. bolts with heavy hex nuts & flat washers
2-1" \varnothing x 8" H.S. bolts with flat washers and lock washers
2- $\frac{5}{8}$ " \varnothing x 6" A307 bolts with flat washers



NOTES

All field drilled holes shall be coated with an approved zinc rich paint before erection. A sufficient number of shims of various thicknesses, sized to fit behind the top spacer assembly, 5" x 11 $\frac{1}{2}$ ", and bottom spacer assembly, 6" x 7", shall be provided to adjust posts for proper alignment. If the summation of shims is greater than $\frac{1}{4}$ " (top) or $\frac{1}{2}$ " (bottom), longer bolts are required. Cost included with Steel Bridge Rail, Type SM (Special).
All steel rail elements including shims shall be galvanized according to Article 509.05 of the Standard Specifications.
All HSS tubing serving as railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
All round head bolts shall be ASTM A307 with locknuts according to ASTM A563 grade A.

*** 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.

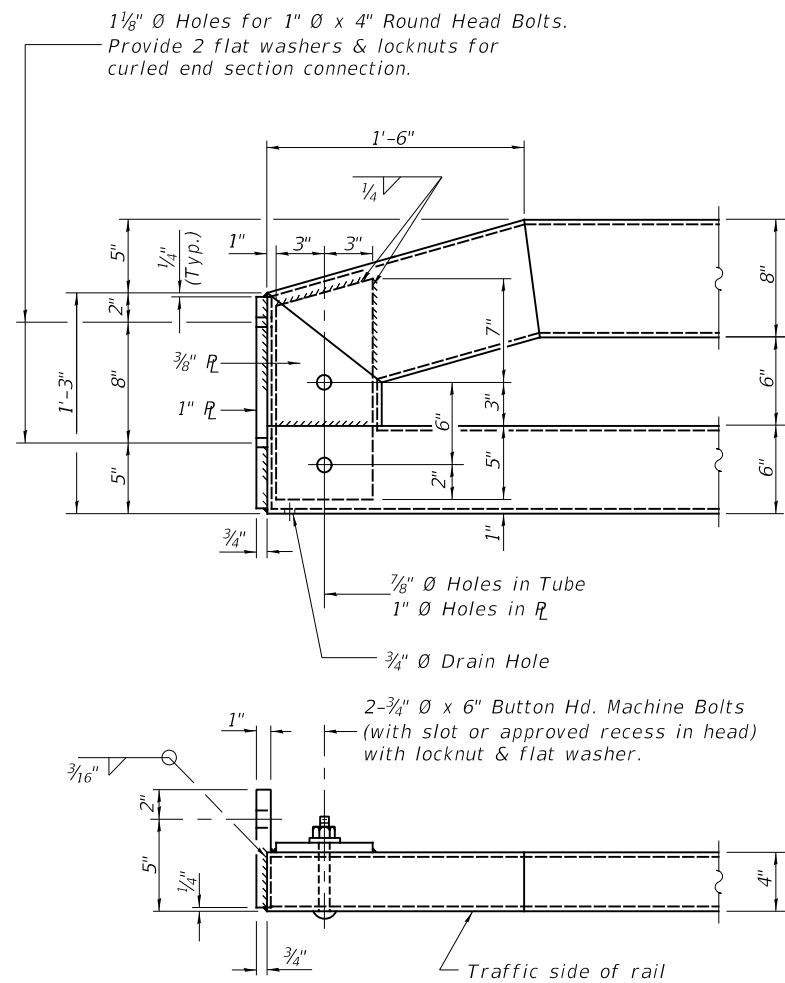
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Steel Bridge Rail, Type SM (Special)	FOOT	148

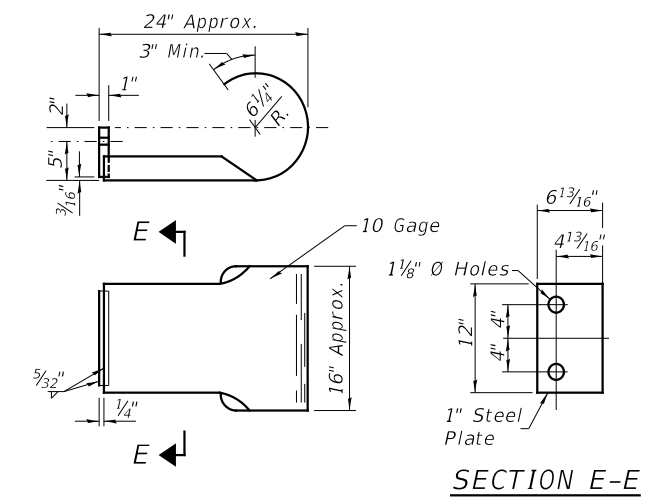
STEEL BRIDGE RAIL, TYPE SM (SPECIAL)
IROQUOIS COUNTY
SECTION 17-00234-00-BR
F.A.S. 1335 (CH 42) OVER
TRIB. TO LITTLE MUD CREEK

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.
**Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed $\frac{1}{2}$ ".

SHEET NO.	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	1335	17-00234-00-BR	IROQUOIS	32	15
11 SHEETS			S.N. 038-3016		CONTRACT NO. 87769
			FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NO. UUK(060)



END OF RAIL DETAILS

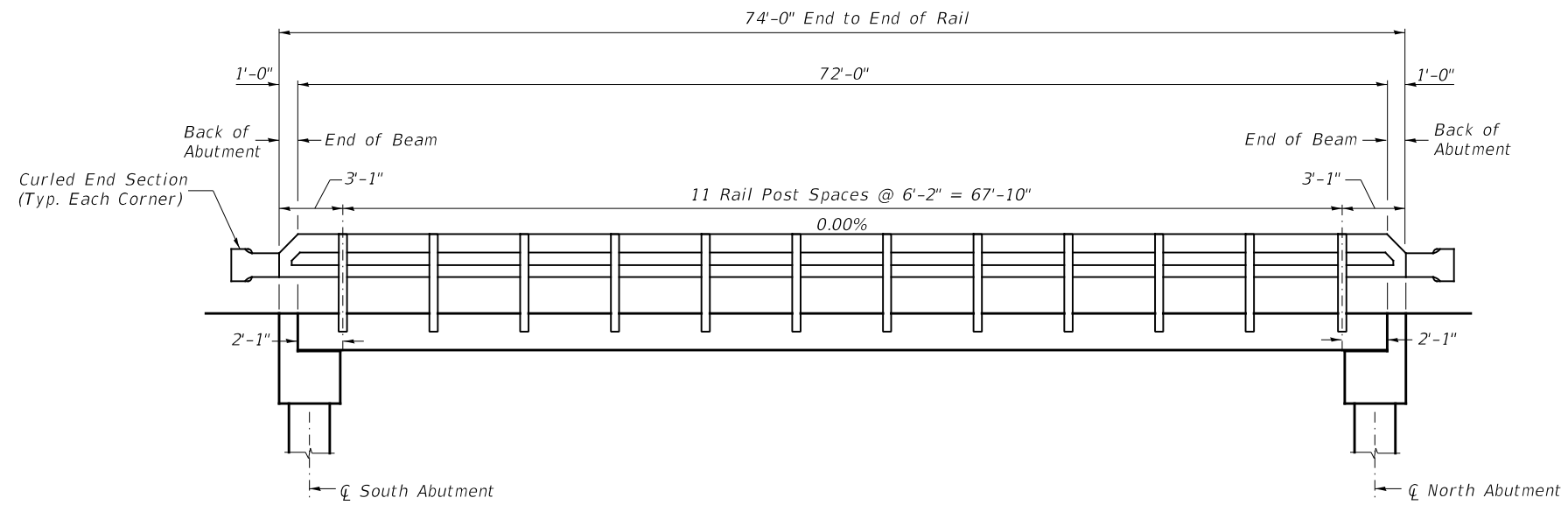


CURLED END SECTION

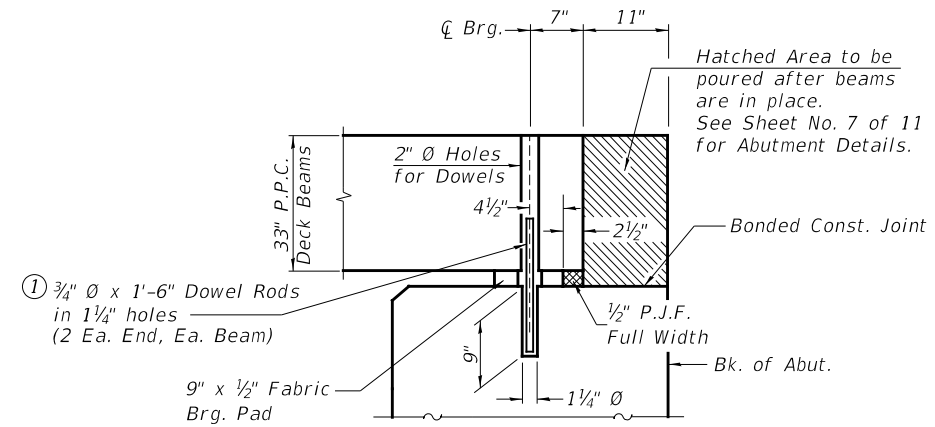
(4 Req'd) Cost Included with Steel Bridge Rail, Type SM (Special).
Terminal Markers - Direct Applied shall be placed on
end of each Curled End Section. (Typ. Each Corner)

STEEL BRIDGE RAIL,
TYPE SM (SPECIAL)
IROQUOIS COUNTY
SECTION 17-00234-00-BR
F.A.S. 1335 (CH 42) OVER
TRIB. TO LITTLE MUD CREEK

SHEET NO.	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
5	1335	17-00234-00-BR	IROQUOIS	32	16
11 SHEETS	S.N. 038-3016		CONTRACT NO. 87769		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. UUKU(060)		



RAIL POST SPACING

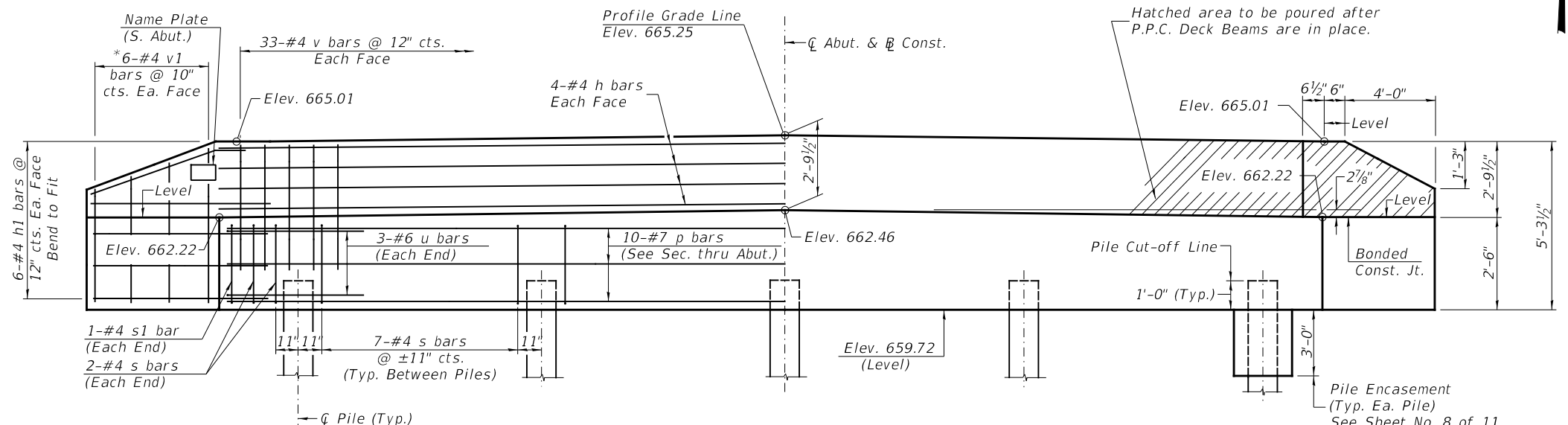
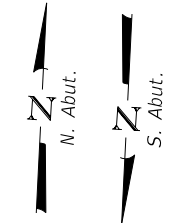
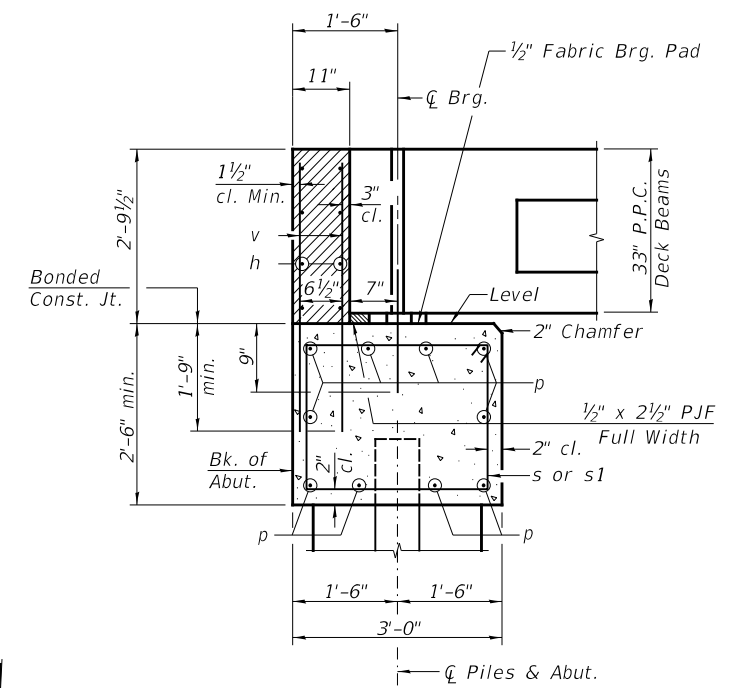
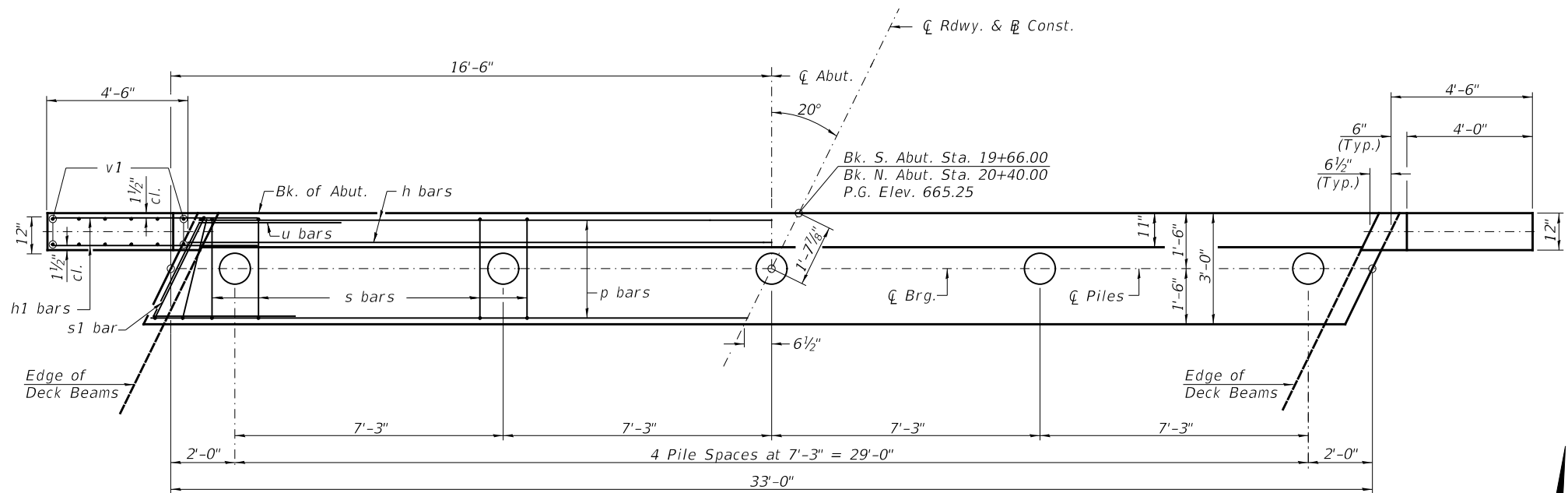


SECTION THRU ABUTMENTS
(At Right Angles)

① Dowel Rods to be grouted after beams are in place and allowed to cure (Min. 24 hr.) prior to grouting the shear keys.

RAIL POST SPACING &
SUPERSTRUCTURE DETAILS
IROQUOIS COUNTY
SECTION 17-00234-00-BR
F.A.S. 1335 (C.H. 42) OVER
TRIB. TO LITTLE MUD CREEK

SHEET NO. 6 11 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1335	17-00234-00-BR	IROQUOIS	32	17
	S.N. 038-3016		CONTRACT NO. 87769		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. UUK(060)		



**TWO ABUTMENTS
BILL OF MATERIAL**

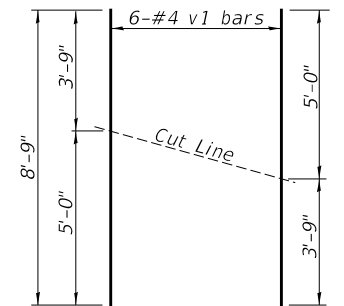
BAR	NO.	SIZE	LENGTH	SHAPE
h	16	#4	32'-9"	—
h1	48	#4	6'-6"	—
p	20	#7	32'-9"	—
s	64	#4	10'-5"	□
s1	4	#4	7'-10"	□
u	12	#6	11'-9"	▽
v	132	#4	4'-6"	—
v1	24	#4	8'-9"	—
Structure Excavation			CU YD	60
Concrete Structures			CU YD	28.8
Concrete Encasement			CU YD	2.6
Reinforcement Bars			POUND	3,110
Furnishing Metal Shell Piles 12"x0.250"			FOOT	440
Driving Piles			FOOT	440
Test Pile Metal Shells			EACH	2
Name Plates			EACH	1

PILE DATA

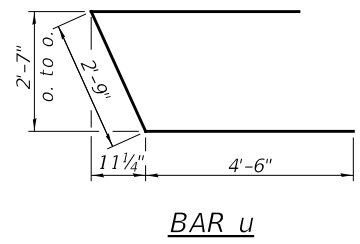
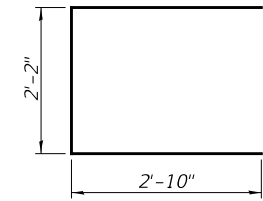
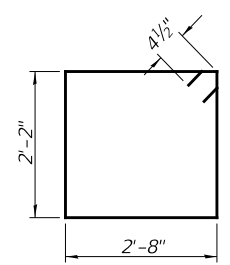
Type & Size: Metal Shell 12" x 0.250" walls
 Nominal Required Bearing: 345 kips
 Factored Resistance Available: 190 kips
 Est. Length: 55' S. Abut.
 55' N. Abut.
 No. Req'd.: 10 (Includes 1 Test Pile at Each Abut.)

NOTES

- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- All edges shall have standard 3/4" chamfer.

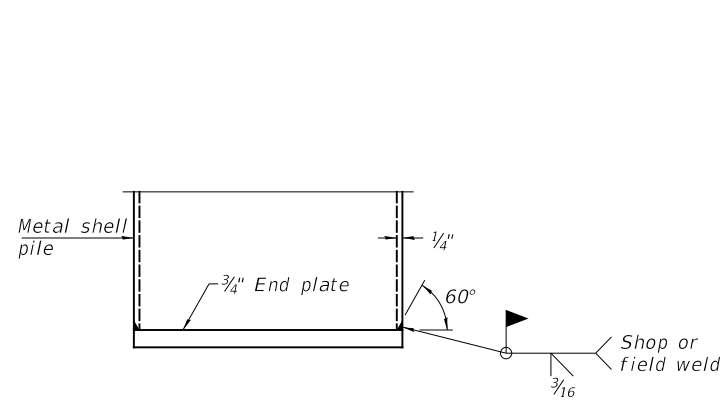


*Order v1 bars full length. Cut as shown and use remainder of bars in opposite face.

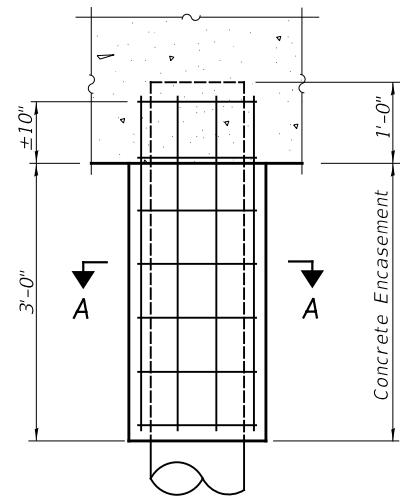


**ABUTMENTS
IROQUOIS COUNTY
SECTION 17-00234-00-BR
F.A.S. 1335 (C.H. 42) OVER
TRIB. TO LITTLE MUD CREEK**

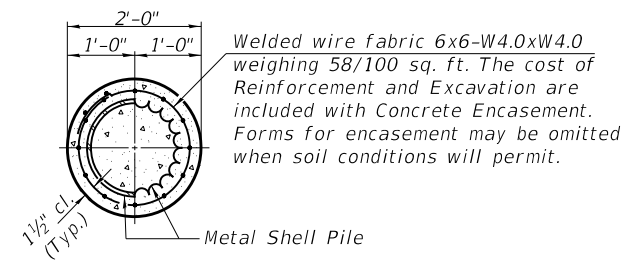
SHEET NO. 7 11 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1335	17-00234-00-BR	IROQUOIS	32	18
	S.N. 038-3016		CONTRACT NO. 87769		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. UUK(060)		



END PLATE ATTACHMENT

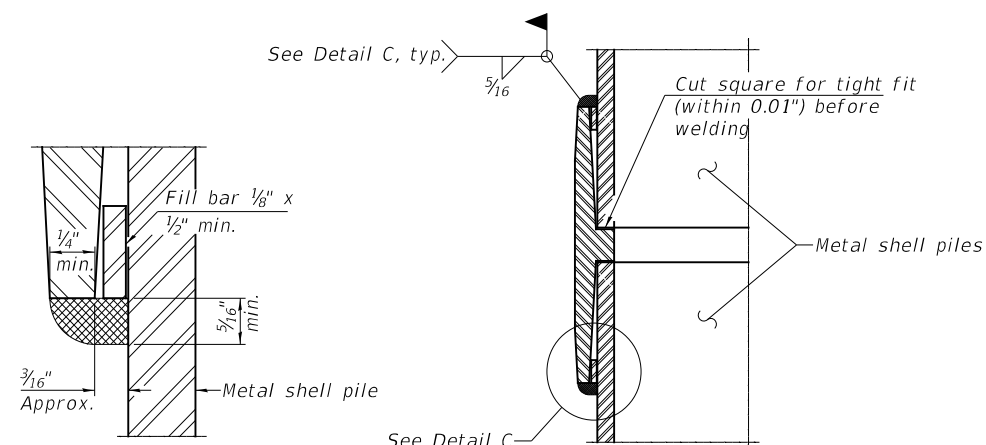


ELEVATION



SECTION A-A

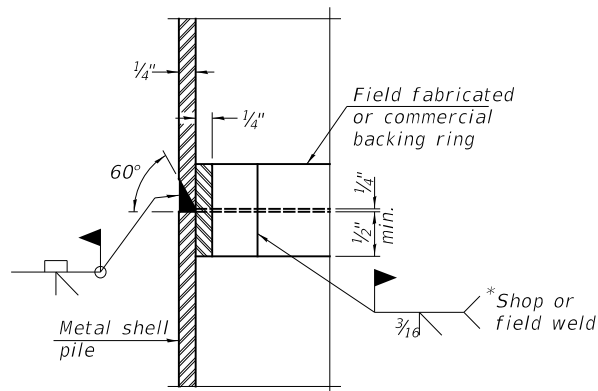
DETAIL OF METAL SHELL PILE ENCASEMENT AT ABUTMENTS



DETAIL C

WELDED COMMERCIAL SPLICE

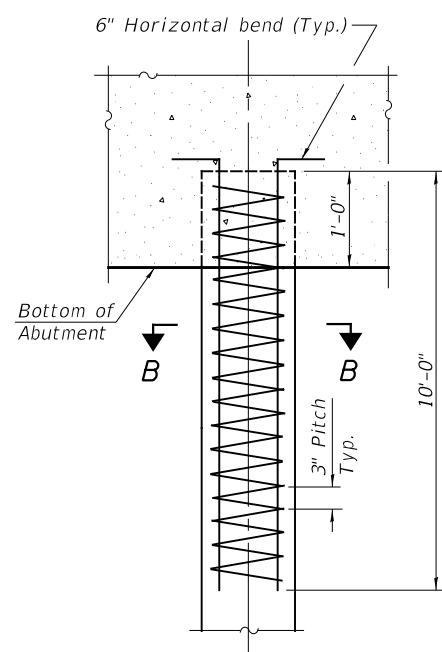
Notes:
 The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
 Pile segments shall be driven to solid contact with splicer before welding.



COMPLETE PENETRATION WELD SPLICE

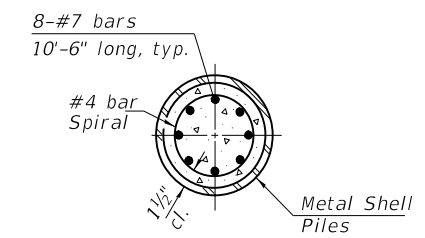
* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.

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



ELEVATION

REINFORCEMENT AT ABUTMENTS

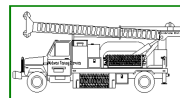


SECTION B-B

The cost of Reinforcement is included with Furnishing Metal Shell Piles 12"x0.250"

METAL SHELL PILE DETAILS
IROQUOIS COUNTY
SECTION 17-00234-00-BR
F.A.S. 1335 (C.H. 42) OVER
TRIB. TO LITTLE MUD CREEK

SHEET NO. 8 11 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1335	17-00234-00-BR	IROQUOIS	32	19
	S.N. 038-3016		CONTRACT NO. 87769		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. UUK(060)		



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 1 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

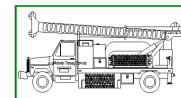
Client: Hutchison Engineering Inc.
Project Name: Section 17-00234-00-BR
Project Site: CH-42 Over Tributary To Mud Creek
Iroquois County, Illinois

Boring No. B-1
Surface Elev. 662.20
Auger Depth 61' Rotary Depth NA
Start Date 11/27/21 Finish Date 11/27/21

Location: 9' Left Of Station 19+60

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
662.20										Randy Safranski Diedrich D-120	
661.20	Stiff Black And Brown Clay (Fill)		1								
660.20			2								
659.20			3	1	SS	1.3	7	B	21		
658.20	Stiff Brownish Gray Clay		4								
657.20			5								
656.20			6	2	SS	1.5	8	B	20		
655.20			7								
654.20			8	3	SS	1.6	8	B	20		
653.20	Very Stiff Brown Gray Clay With Thin Sand Seams		9								
652.20			10								
651.20			11	4	SS	1.6	9	B	21		
650.20			12								
649.20			13	5	SS	2.3	14	B	18		
648.20			14								
647.20			15	6	SS	2.3	16	B	17		
646.20			16								
645.20		17									
644.20		18	7	SS	2.4	15	B	18			
643.20		19									
642.20		20	8	SS	2.1	14	B	19			

Groundwater Data: Static water level after auger removal -Elevation 644.0
Comments:



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 2 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering Inc.
Project Name: Section 17-00234-00-BR
Project Site: CH-42 Over Tributary To Mud Creek
Iroquois County, Illinois

Boring No. B-1
Surface Elev. 662.20
Auger Depth 61' Rotary Depth NA
Start Date 11/27/21 Finish Date 11/27/21

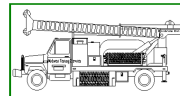
Location: 9' Left Of Station 19+60

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
641.20										Randy Safranski Diedrich D-120	
640.20			22								
639.20			23	9	SS	2.4	15	B	18		
638.20	Very Stiff Gray Clay		24								
637.20			25								
636.20			26	10	SS	2.0	13	B	20		
635.20			27								
634.20		28	11	SS	2.2	14	B	18			
633.20	Very Stiff Gray Silty Loam Till		29								
632.20			30								
631.20			31	12	SS	2.3	13	B	22		
630.20			32								
629.20			33								
628.20			34								
627.20		35									
626.20		36	13	SS	2.5	15	B	21			
625.20			37								
624.20			38								
623.20			39								
622.20			40								
621.20			41	14	SS	3.0	9	S	15		

Groundwater Data: Static water level after auger removal -Elevation 644.0
Comments:

SOIL BORINGS
IROQUOIS COUNTY
SECTION 17-00234-00-BR
F.A.S. 1335 (C.H. 42) OVER
TRIB. TO LITTLE MUD CREEK

SHEET NO. 9 11 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1335	17-00234-00-BR	IROQUOIS	32	20
	S.N. 038-3016		CONTRACT NO. 87769		
	FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NO. UUK(060)		



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 3 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

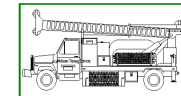
Client: Hutchison Engineering Inc.
Project Name: Section 17-00234-00-BR
Project Site: CH-42 Over Tributary To Mud Creek
Iroquois County, Illinois

Boring No. B-1
Surface Elev. 662.20
Auger Depth 61' Rotary Depth NA
Start Date 11/27/21 Finish Date 11/27/21

Location: 9' Left Of Station 19+60

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	
620.20										Randy Safranski Diedrich D-120	
619.20			43								
618.20			44								
617.20			45	15	SS	3.5	26	S	14		
616.20			46								
615.20			47								
614.20	Very Stiff Gray Silty Loam Till		48								
613.20			49								
612.20			50								
611.20			51	16	SS	3.4	28	S	14		
610.20			52								
609.20			53								
608.20			54								
607.20			55								
606.20			56	17	SS	3.2	24	S	15		
605.20			57								
604.20			58								
603.20			59								
602.20			60								
601.20			61	18	SS	3.7	31	S	12		
600.20			62								

Groundwater Data: Static water level after auger removal -Elevation 644.0
Comments:



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 1 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering Inc.
Project Name: Section 17-00234-00-BR
Project Site: CH-42 Over Tributary To Mud Creek
Iroquois County, Illinois

Boring No. B-2
Surface Elev. 662.20
Auger Depth 61' Rotary Depth NA
Start Date 11/27/21 Finish Date 11/27/21

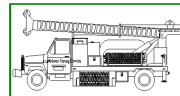
Location: 10' Right Of Station 20+50

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	
662.20										Randy Safranski Diedrich D-120	
661.20	Stiff Black And Brown Clay (Fill)		1								
660.20			2								
659.20			3	1	SS	1.3	8	B	20		
658.20	Stiff Gray Clay		4								
657.20			5								
656.20			6	2	SS	1.7	9	B	20		
655.20			7								
654.20			8	3	SS	1.6	8	B	21		
653.20			9								
652.20			10								
651.20			11	4	SS	1.7	8	B	21		
650.20			12								
649.20			13	5	SS	1.9	13	B	18		
648.20			14								
647.20	Stiff Brownish Gray Clay With Thin Sand Seams		15	6	SS	1.8	13	B	17		
646.20			16								
645.20			17								
644.20			18	7	SS	1.6	12	B	18		
643.20			19								
642.20			20	8	SS	1.7	12	B	18		

Groundwater Data: Static water level after auger removal -Elevation 644.0
Comments:

SOIL BORINGS
IROQUOIS COUNTY
SECTION 17-00234-00-BR
F.A.S. 1335 (C.H. 42) OVER
TRIB. TO LITTLE MUD CREEK

SHEET NO. 10 11 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1335	17-00234-00-BR	IROQUOIS	32	21
	S.N. 038-3016		CONTRACT NO. 87769		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. UUK(060)		



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 2 of 3

Phone: 815-223-6696
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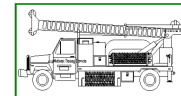
Client: Hutchison Engineering Inc.
Project Name: Section 17-00234-00-BR
Project Site: CH-42 Over Tributary To Mud Creek
Iroquois County, Illinois

Boring No. B-2
Surface Elev. 662.20
Auger Depth 61' Rotary Depth NA
Start Date 11/27/21 Finish Date 11/27/21

Location: 10' Right Of Station 20+50

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
641.20										Randy Safranski Diedrich D-120	
640.20	Stiff Gray Clay		22								
639.20			23	9	SS	1.9	17	B	22		
638.20			24								
637.20	Very Stiff Gray Clay		25	10	SS	1.8	12	B	21		
636.20			26								
635.20			27								
634.20	Very Stiff Gray Clay		28	11	SS	2.5	15	B	20		
633.20			29								
632.20			30								
631.20	Very Stiff Gray Clay		31	12	SS	2.3	14	B	18		
630.20			32								
629.20			33								
628.20	Very Stiff Gray Clay		34	13	SS	2.2	14	B	18		
627.20			35								
626.20			36								
625.20	Very Stiff Gray Silty Loam Till		37								
624.20			38								
623.20			39								
622.20	Very Stiff Gray Silty Loam Till		40	14	SS	3.4	21	S	14		
621.20			41								

Groundwater Data: Static water level after auger removal -Elevation 644.0
Comments:



Midwest Testing Services, Inc.
3705 Progress Blvd.
Peru, IL 61354

BORING LOG

Sheet 3 of 3

Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net

Client: Hutchison Engineering Inc.
Project Name: Section 17-00234-00-BR
Project Site: CH-42 Over Tributary To Mud Creek
Iroquois County, Illinois

Boring No. B-2
Surface Elev. 662.20
Auger Depth 61' Rotary Depth NA
Start Date 11/27/21 Finish Date 11/27/21

Location: 10' Right Of Station 20+50

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)		
620.20										Randy Safranski Diedrich D-120	
619.20	Very Stiff Gray Silty Loam Till		43								
618.20			44	15	SS	3.4	32	S	12		
617.20			45								
616.20	Very Stiff Gray Silty Loam Till		46	16	SS	3.8	35	S	12		
615.20			47								
614.20			48								
613.20	Very Stiff Gray Silty Loam Till		49	17	SS	3.3	27	S	13		
612.20			50								
611.20			51								
610.20	Very Stiff Gray Silty Loam Till		52								
609.20			53								
608.20			54								
607.20	Very Stiff Gray Silty Loam Till		55	18	SS	3.1	32	S	12		
606.20			56								
605.20			57								
604.20	Very Stiff Gray Silty Loam Till		58								
603.20			59								
602.20			60								
601.20	Very Stiff Gray Silty Loam Till		61								
600.20			62								

Groundwater Data: Static water level after auger removal -Elevation 644.0
Comments:

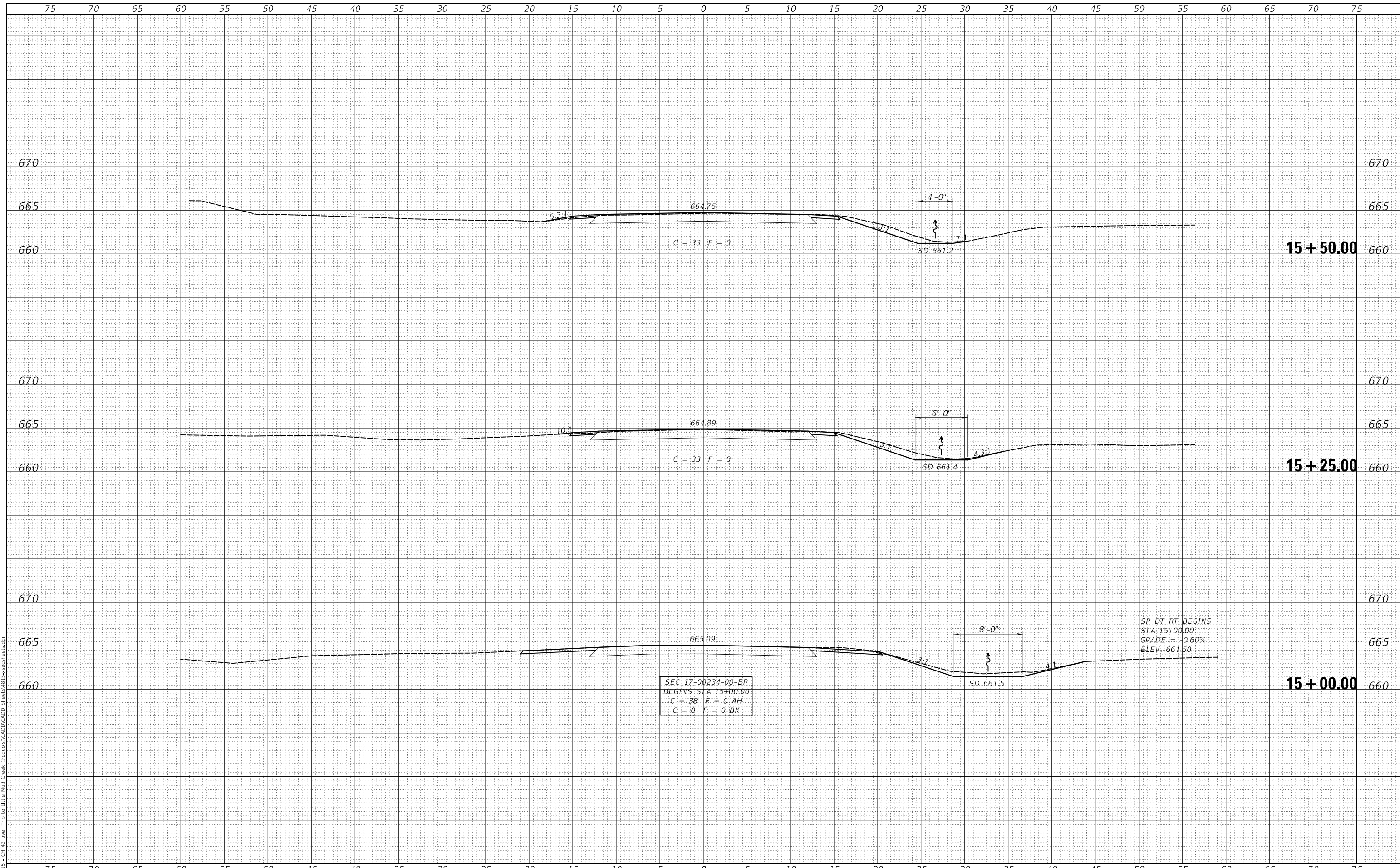
SOIL BORINGS
IROQUOIS COUNTY
SECTION 17-00234-00-BR
F.A.S. 1335 (C.H. 42) OVER
TRIB. TO LITTLE MUD CREEK

SHEET NO. 11 11 SHEETS	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1335	17-00234-00-BR	IROQUOIS	32	22
	S.N. 038-3016		CONTRACT NO. 87769		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. UUK(060)		

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

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

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SEC 17-00234-00-BR
BEGINS STA 15+00.00
C = 38 F = 0 AH
C = 0 F = 0 BK

SP. DT. RT. BEGINS
STA 15+00.00
GRADE = -0.60%
ELEV. 661.50

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PLOT SCALE = 10.0000' / in.	CHECKED - STM/MMO	REVISED - _____
PLOT DATE = 3/15/2022	DATE - 3/15/2022	REVISED - _____

**IROQUOIS COUNTY
COUNTY HIGHWAY 42 OVER
TRIBUTARY TO LITTLE MUD CREEK**

SCALE: 1" = 5'	SHEET 1	OF 10 SHEETS	STA. 15+00.00	TO STA. 15+50.00
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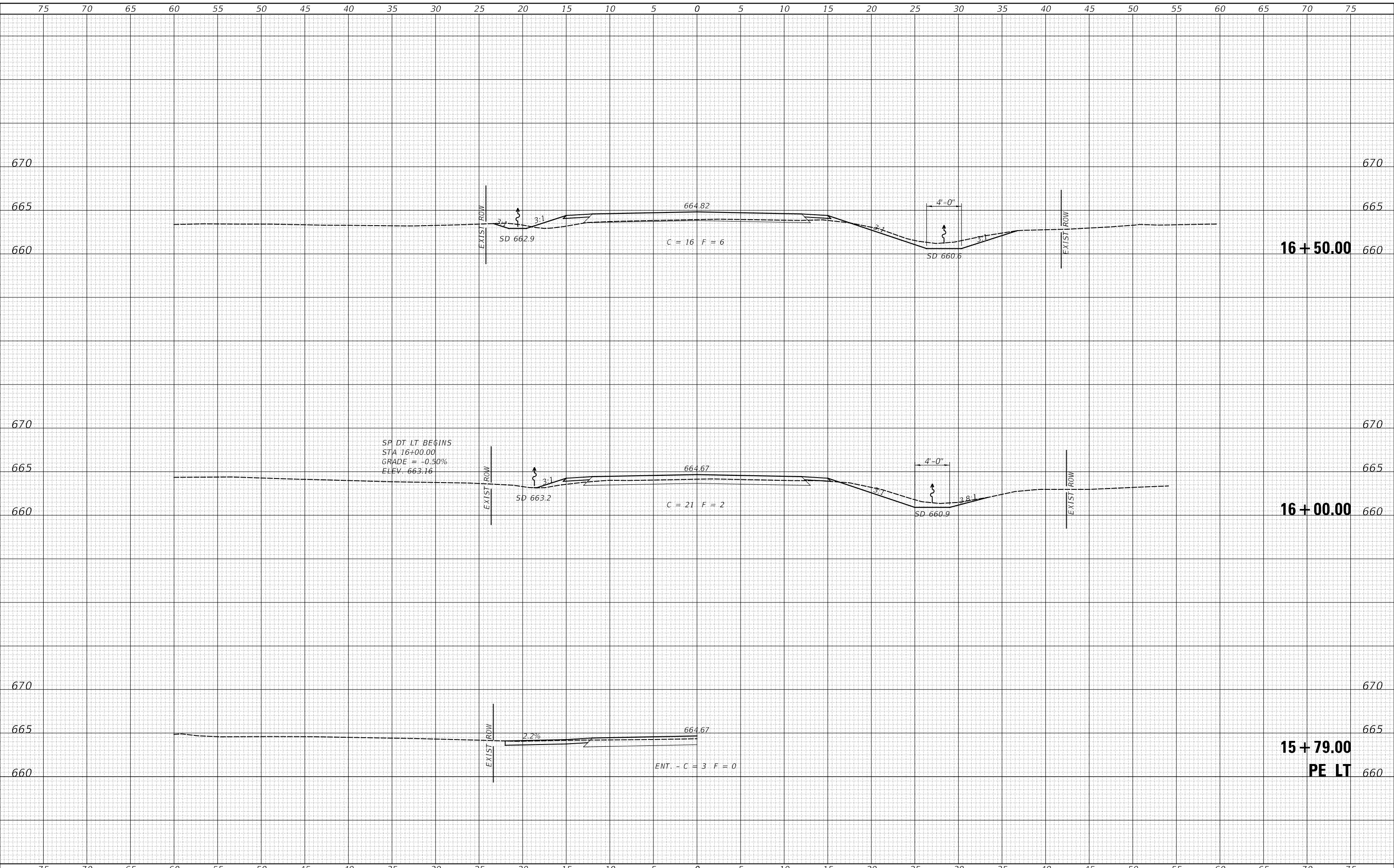
CROSS SECTIONS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1335	17-00234-00-BR	IROQUOIS	32	23
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87769	
FED. AID PROJECT NO. UUK(060)				

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

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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PLOT DATE =	3/15/2022	DATE -	3/15/2022	REVISED -	_____

**IROQUOIS COUNTY
COUNTY HIGHWAY 42 OVER
TRIBUTARY TO LITTLE MUD CREEK**

SCALE: 1" = 5'		SHEET 2 OF 10 SHEETS		STA. 15+79.00 TO STA. 16+50.00	
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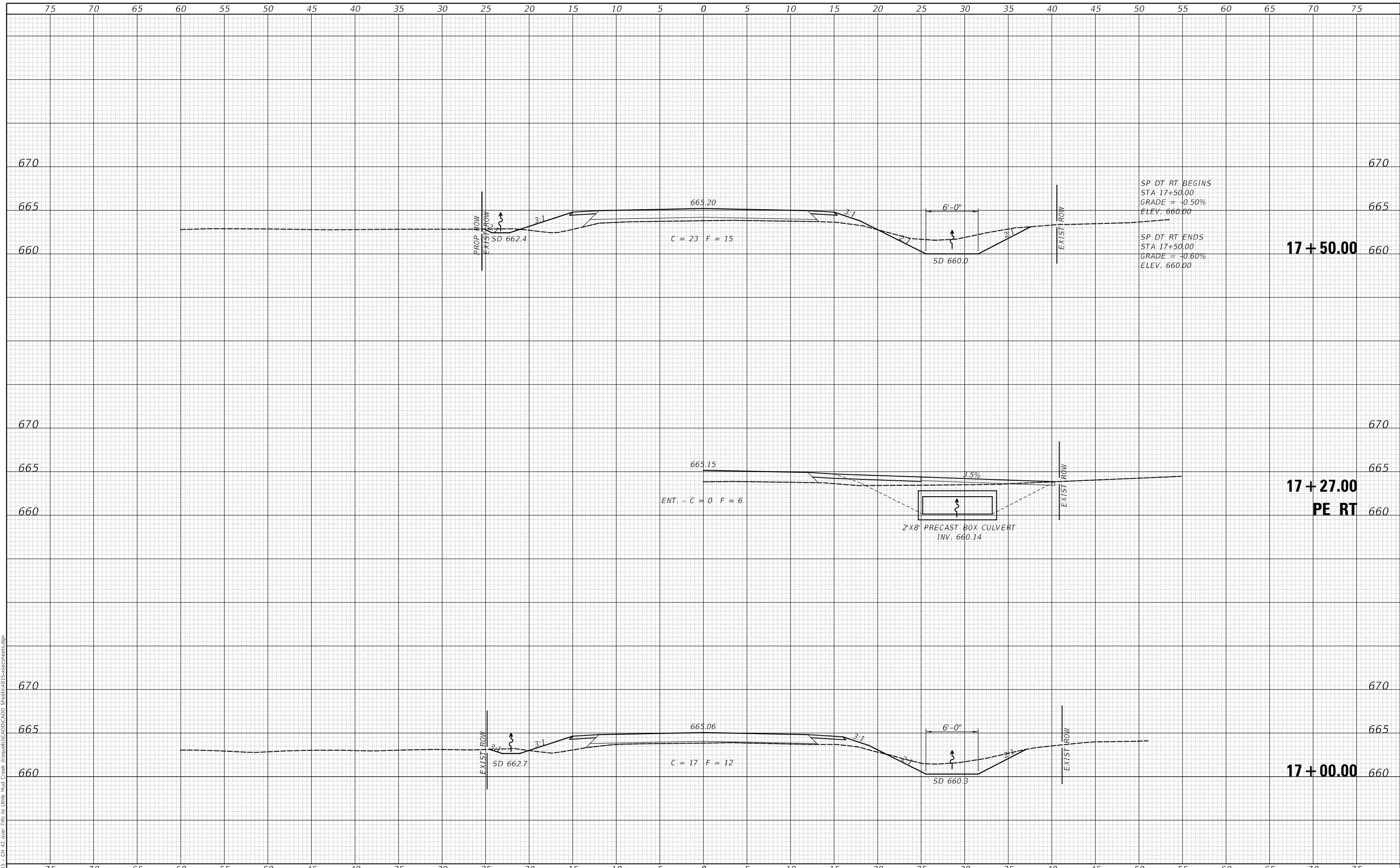
CROSS SECTIONS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87769	
FED. AID PROJECT NO. UUK6(060)				

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

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

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PLOT DATE =	3/15/2022	DATE -	3/15/2022	REVISED -	_____

**IROQUOIS COUNTY
 COUNTY HIGHWAY 42 OVER
 TRIBUTARY TO LITTLE MUD CREEK**

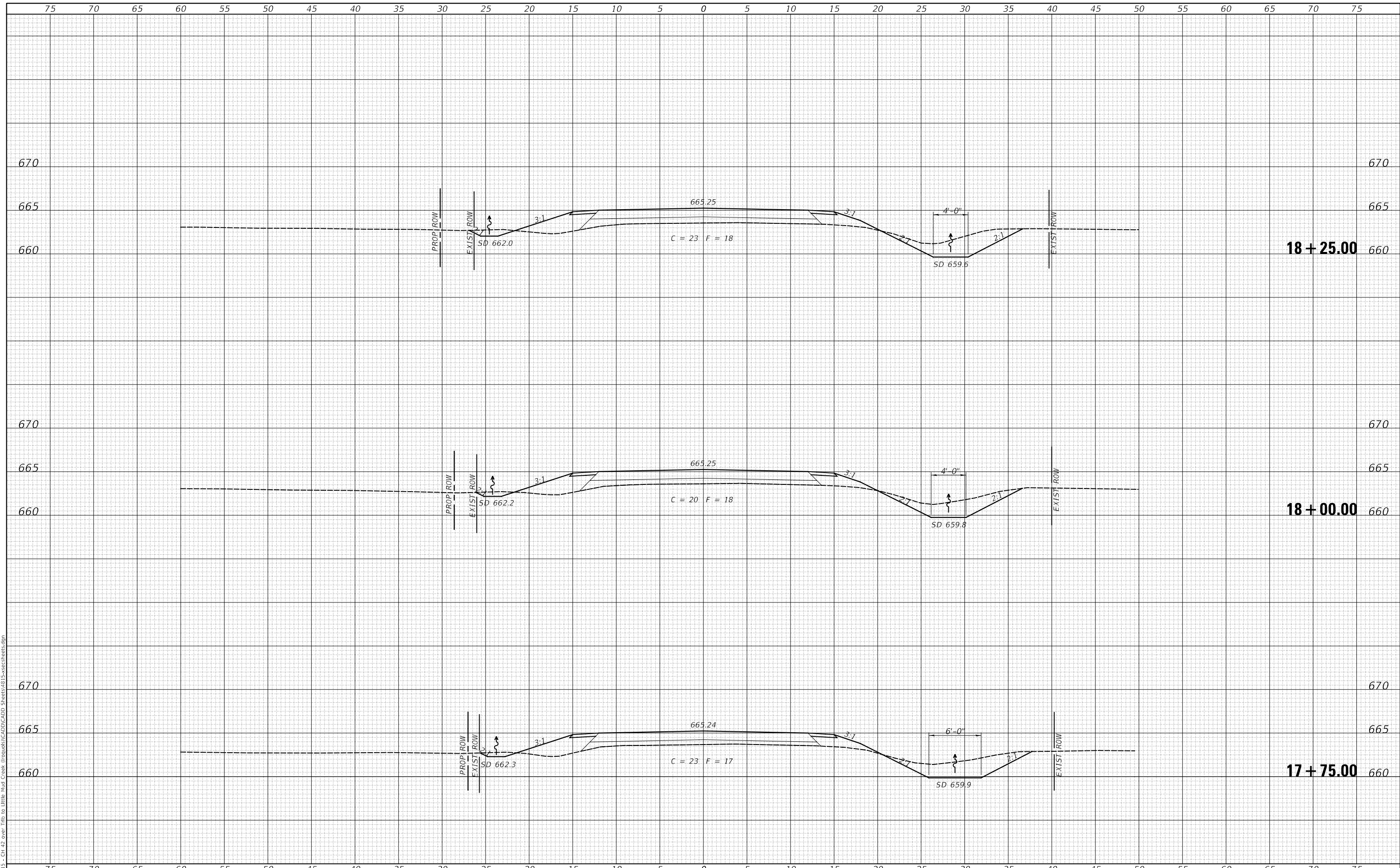
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1335	17-00234-00-BR	IROQUOIS	32	25
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87769	
			FED. AID PROJECT NO. UUK6(060)	

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

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

MODEL: \$PDELNAME\$
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PLOT DATE = 3/15/2022	DATE - 3/15/2022	REVISED - _____

**IROQUOIS COUNTY
COUNTY HIGHWAY 42 OVER
TRIBUTARY TO LITTLE MUD CREEK**

CROSS SECTIONS

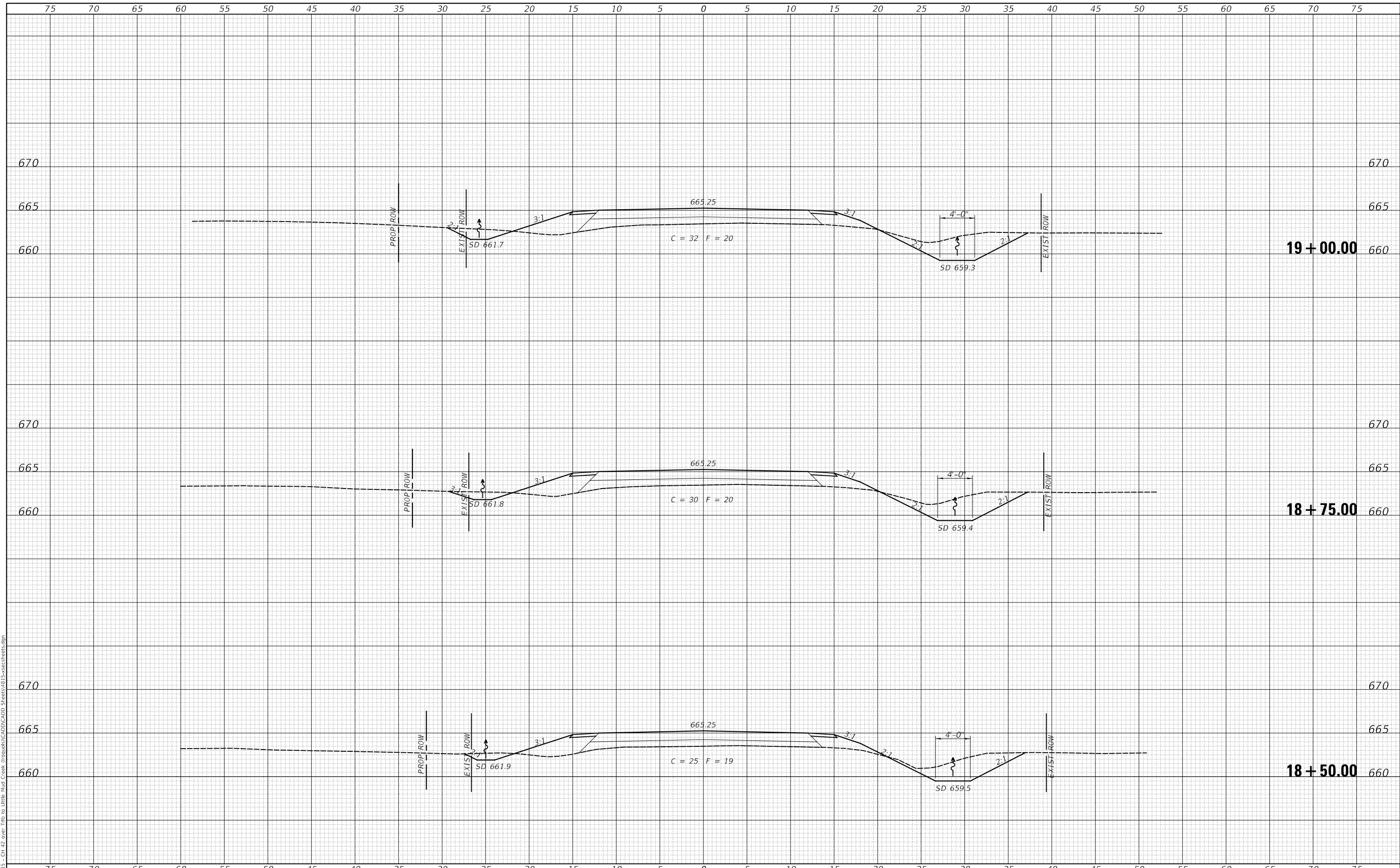
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1335	17-00234-02-BR	IROQUOIS	32	26
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87769	
FED. AID PROJECT NO. UUK6(060)				

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

DATE	
BY	
ORIGINAL SURVEY NO.	
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PLOT DATE = 3/15/2022	DATE - 3/15/2022	REVISED - _____

**IROQUOIS COUNTY
 COUNTY HIGHWAY 42 OVER
 TRIBUTARY TO LITTLE MUD CREEK**

CROSS SECTIONS

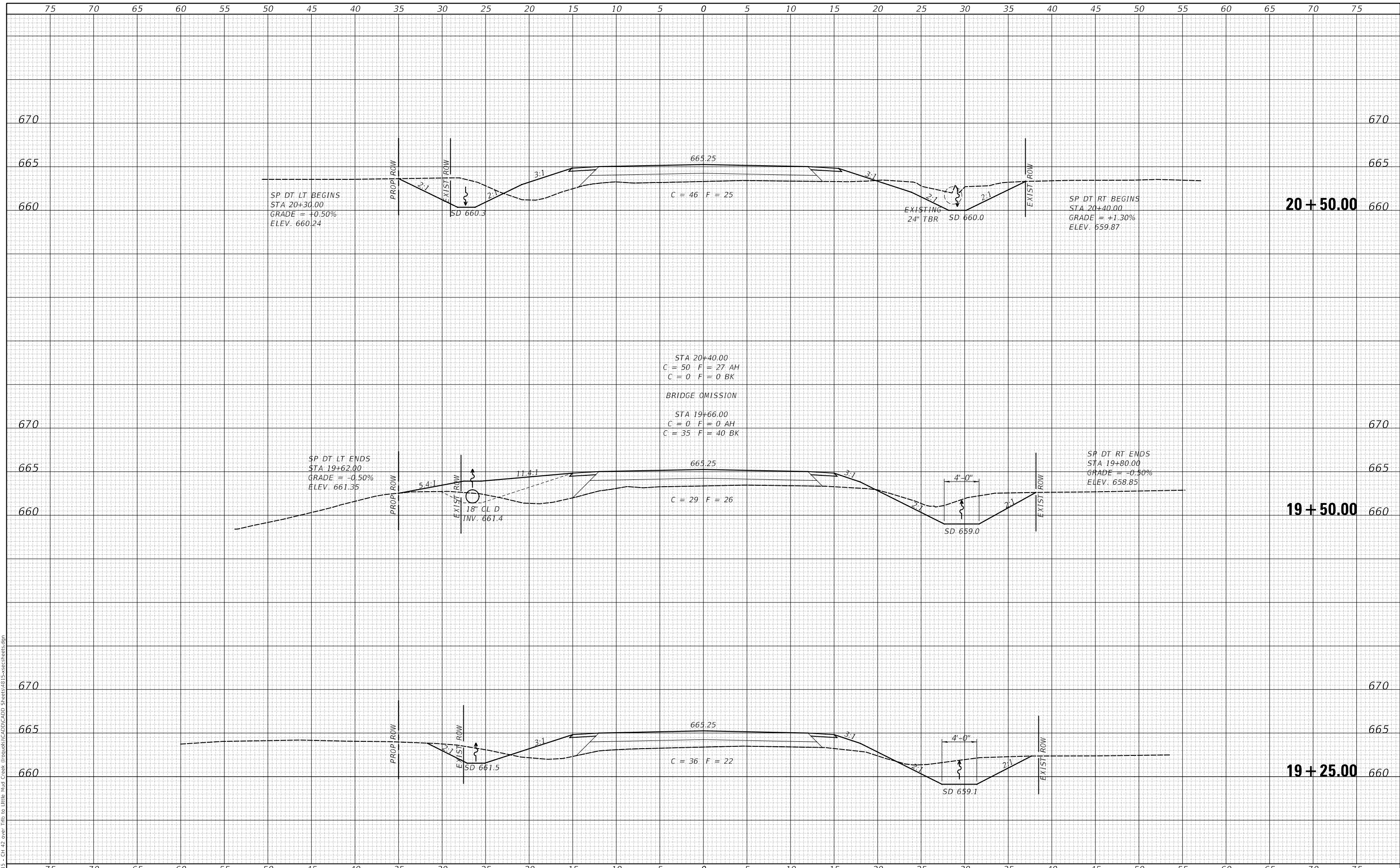
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F.A.S. RTE. 1335	SECTION 17-00234-00-BR	COUNTY IROQUOIS	TOTAL SHEETS 32	SHEET NO. 27
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87769	
FED. AID PROJECT NO. UUK6(060)				

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

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

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PLOT DATE =	3/15/2022	DATE -	3/15/2022	REVISED -	_____

**IROQUOIS COUNTY
 COUNTY HIGHWAY 42 OVER
 TRIBUTARY TO LITTLE MUD CREEK**

CROSS SECTIONS

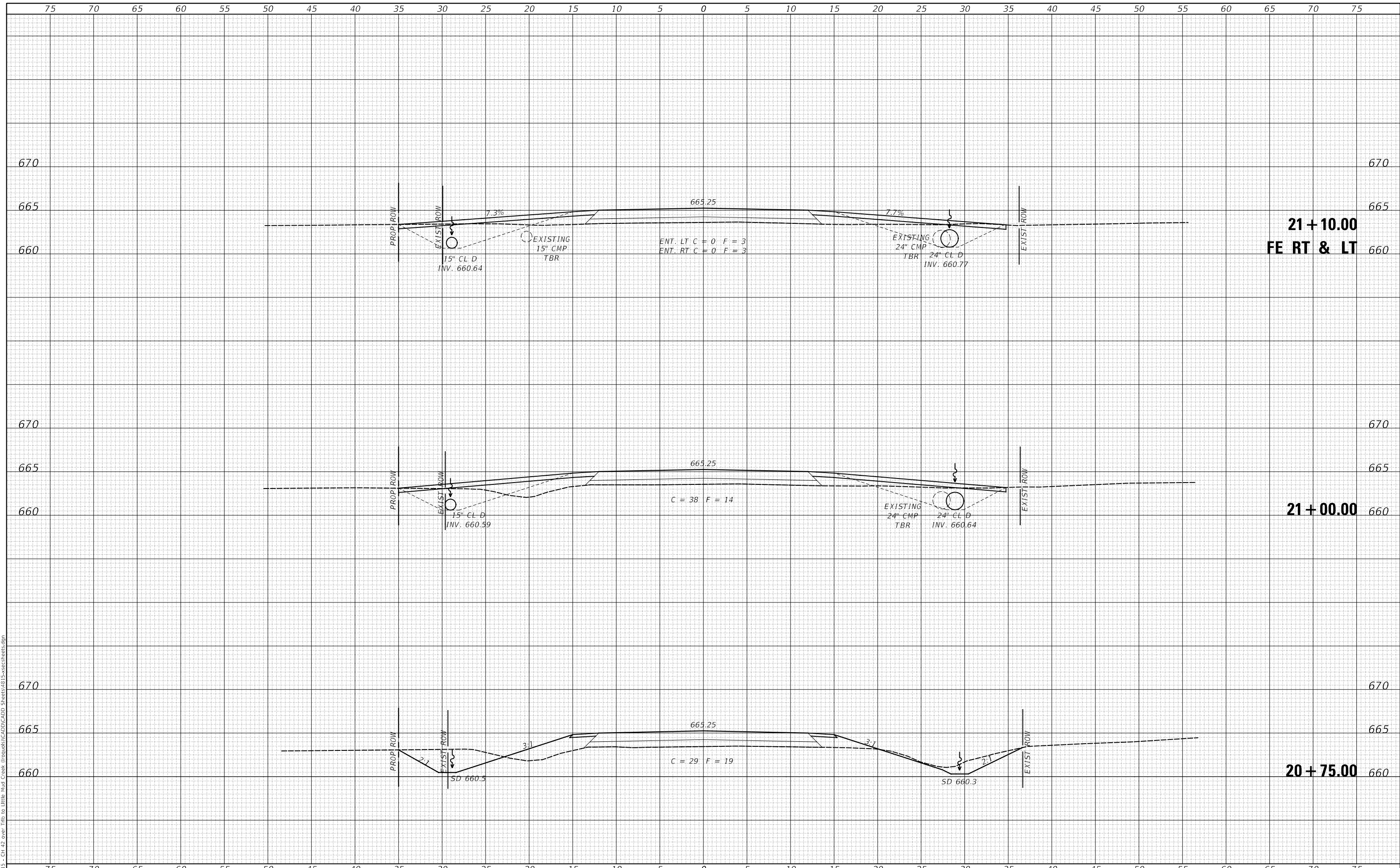
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1335	17-00234-00-BR	IROQUOIS	32	28
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87769	
			FED. AID PROJECT NO. UUK6(060)	

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

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

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		DRAWN	- JPS	REVISED	- _____
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PLOT DATE	= 3/15/2022	DATE	- 3/15/2022	REVISED	- _____

**IROQUOIS COUNTY
COUNTY HIGHWAY 42 OVER
TRIBUTARY TO LITTLE MUD CREEK**

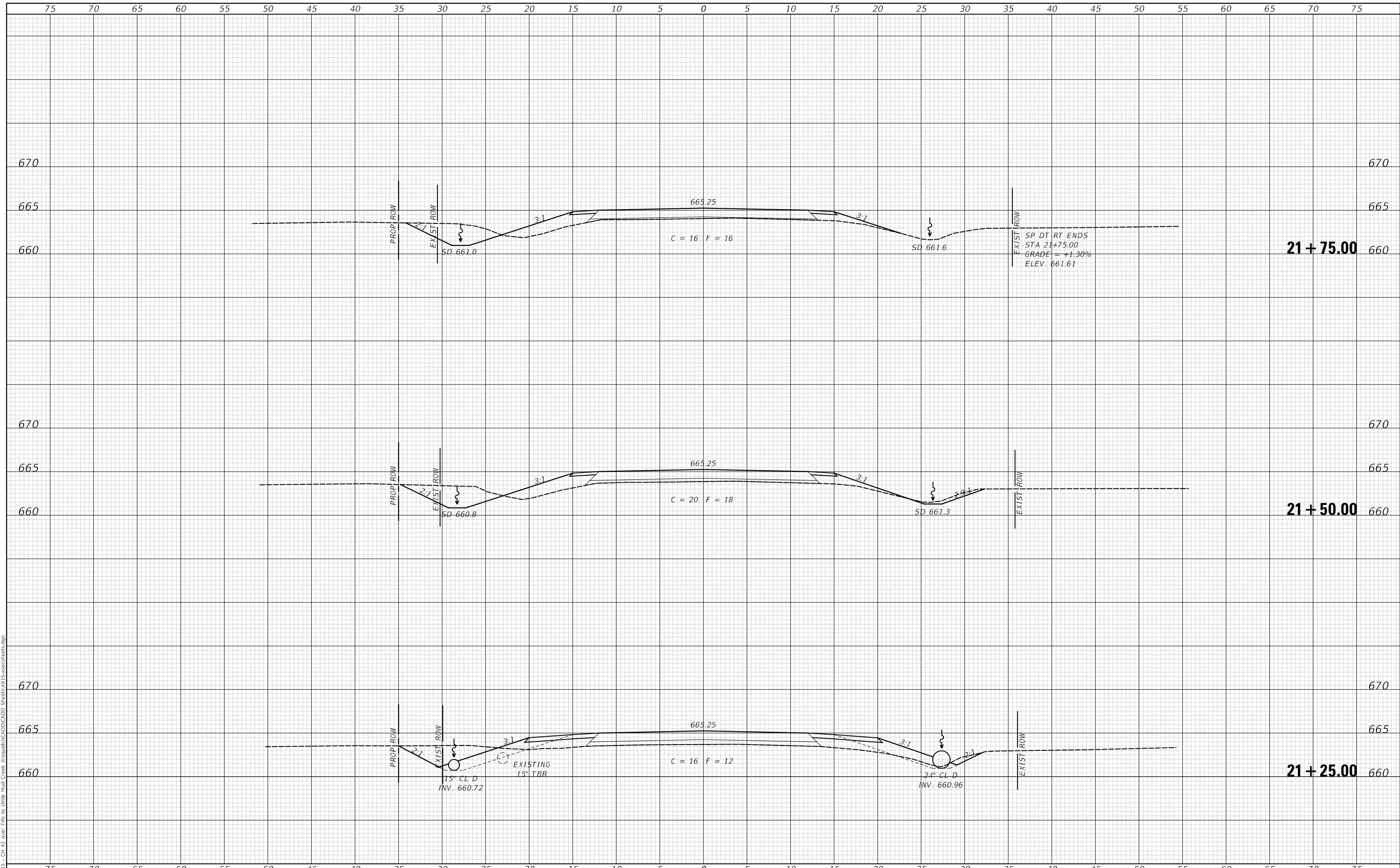
CROSS SECTIONS
SCALE: 1" = 5'
SHEET 7 OF 10 SHEETS
STA. 20+75.00 TO STA. 21+10.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1335	17-00234-00-BR	IROQUOIS	32	29
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87769	
FED. AID PROJECT NO. UUK6(060)				

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

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

MODEL: \$PDELNAME\$
FILE NAME: V:\0313 - CH 42 over Trip to Little Mud Creek (Iroquois)\CADD\CADD Sheets\4815-xsec3sheet.dgn



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		DRAWN -	JPS	REVISED -	_____
PLOT SCALE =	10.0000' / in.	CHECKED -	STM/MMO	REVISED -	_____
PLOT DATE =	3/15/2022	DATE -	3/15/2022	REVISED -	_____

**IROQUOIS COUNTY
COUNTY HIGHWAY 42 OVER
TRIBUTARY TO LITTLE MUD CREEK**

SCALE: 1" = 5'		SHEET 8 OF 10 SHEETS		STA. 21+25.00 TO STA. 21+75.00	
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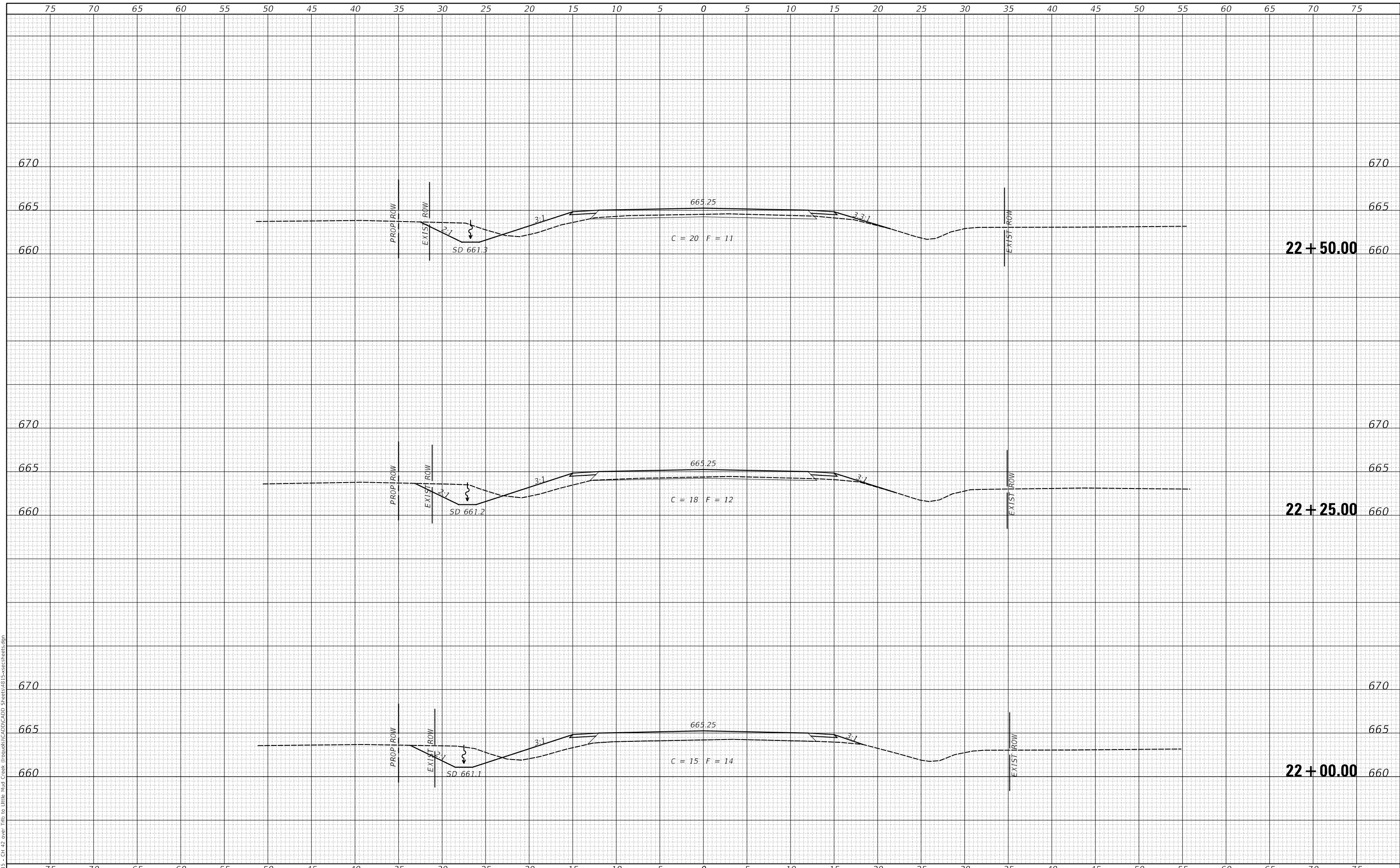
CROSS SECTIONS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87769	
			FED. AID PROJECT NO. UUK6(060)	

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

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

MODEL: SPODELNAME5
FILE NAME: V:\0313 - CH 42 over Trib to Little Mud Creek (Iroquois)\CADD\CADD Sheets\4815-xsec3sheets.dgn



USER NAME = smierzwa	DESIGNED - JPS	REVISED - _____
	DRAWN - JPS	REVISED - _____
PLOT SCALE = 10.0000' / in.	CHECKED - STM/MMO	REVISED - _____
PLOT DATE = 3/15/2022	DATE - 3/15/2022	REVISED - _____

**IROQUOIS COUNTY
COUNTY HIGHWAY 42 OVER
TRIBUTARY TO LITTLE MUD CREEK**

CROSS SECTIONS

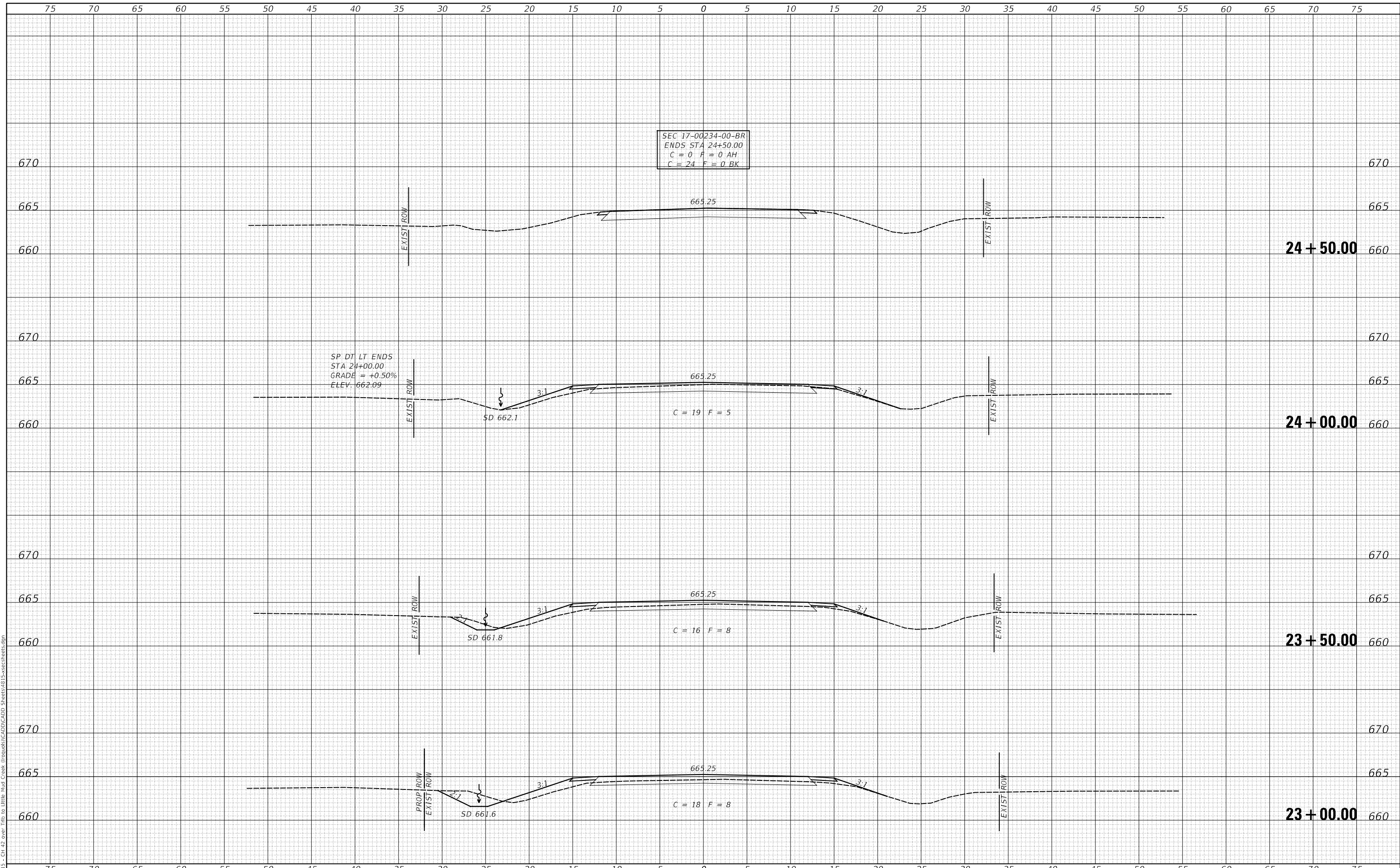
SCALE: 1" = 5' SHEET 9 OF 10 SHEETS STA. 22+00.00 TO STA. 22+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1335	17-00234-00-BR	IROQUOIS	32	31
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 87769	
FED. AID PROJECT NO. UUK6(060)				

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

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

MODEL: \$MODELNAME\$
FILE NAME: V:\013 - CH 42 over Trib to Little Mud Creek (Iroquois)\CADD\CADD Sheets\4815-xsec3sheet.dgn



USER NAME = smierzwa	DESIGNED - JPS	REVISED - _____
	DRAWN - JPS	REVISED - _____
PLOT SCALE = 10.0000' / in.	CHECKED - STM/MMO	REVISED - _____
PLOT DATE = 3/15/2022	DATE - 3/15/2022	REVISED - _____

**IROQUOIS COUNTY
COUNTY HIGHWAY 42 OVER
TRIBUTARY TO LITTLE MUD CREEK**

SCALE: 1" = 5'		SHEET 10 OF 10 SHEETS		STA. 23+00.00 TO STA. 24+50.00	
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CROSS SECTIONS

F.A.S. RTE. 1335	SECTION 17-00234-00-BR	COUNTY IROQUOIS	TOTAL SHEETS 32	SHEET NO. 32
FED. ROAD DIST. NO. 7		ILLINOIS	CONTRACT NO. 87769	
FED. AID PROJECT NO. UUK(060)				