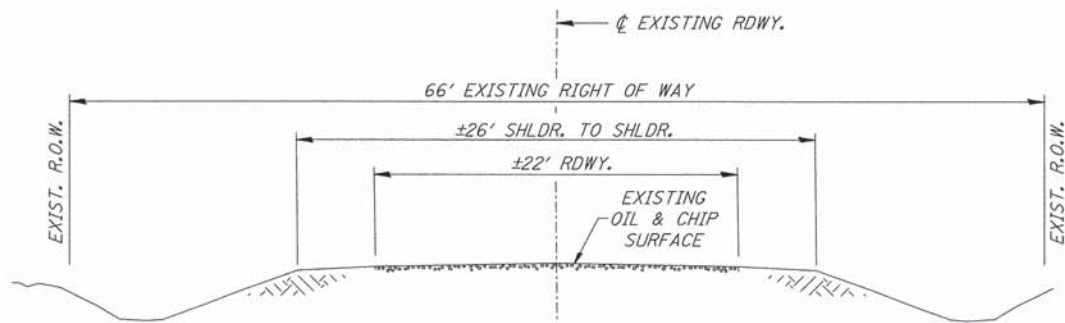
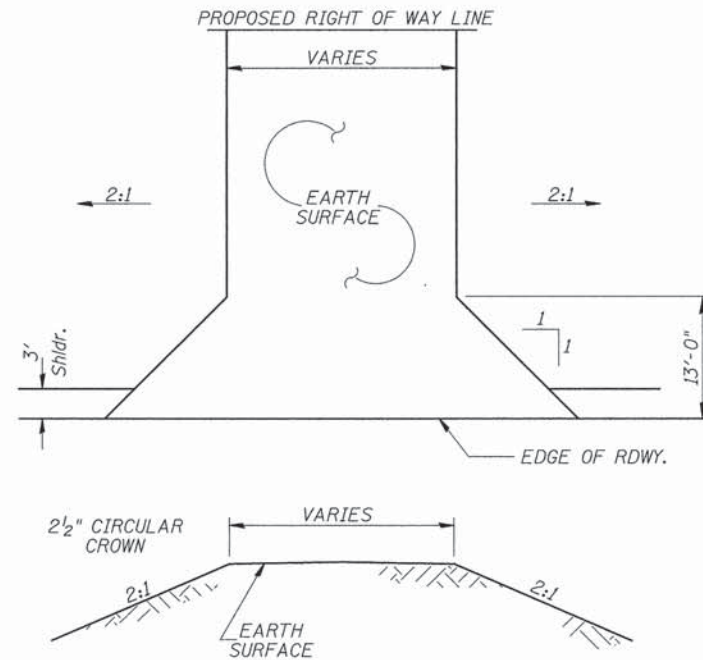


CONSTRUCT GUARDRAIL
SHOULDER WIDENING IN
ACCORDANCE WITH STD 630301

PROPOSED TYPICAL SECTION
STA. 17+75.00 TO STA. 21+25.00
EXCEPT TRANSITIONS

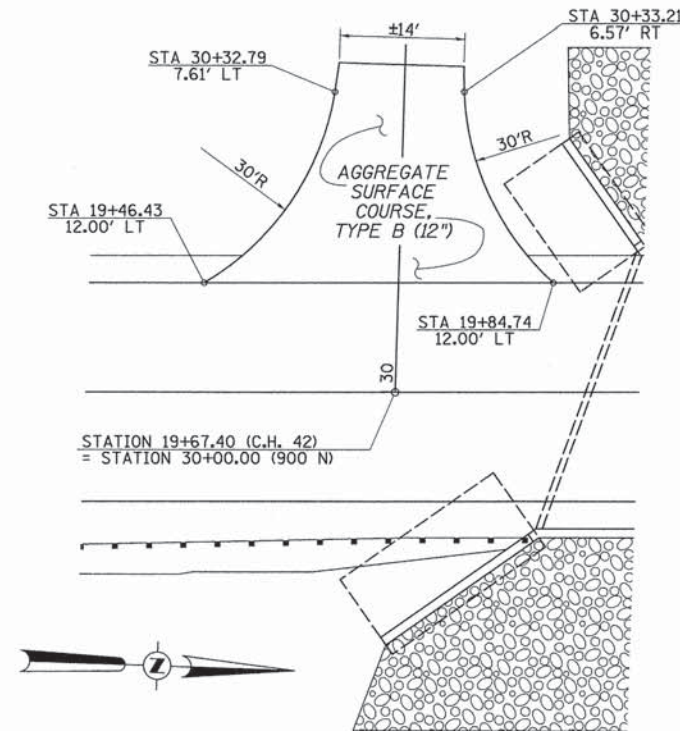


EXISTING TYPICAL SECTION

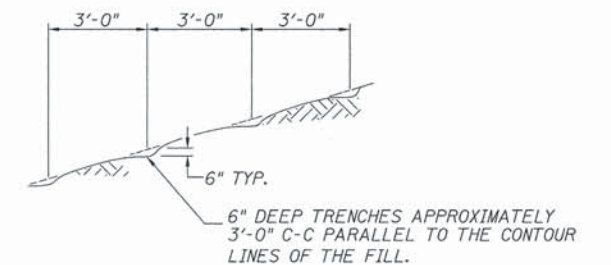


FIELD ENTRANCES

STA 18+85 RT (44' WIDE)
STA 20+95 RT (30' WIDE)
STA 21+00 LT (30' WIDE)



900 N INTERSECTION DETAIL



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

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 OR REPAIRED 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.

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.

THE FINAL SURFACE OF ALL DISTURBED/EMBANKMENT AREAS SHALL BE SEEDDED. THE TOP 4 INCHES OF THE SEEDED AREAS SHALL BE COHESIVE VEGETATION SUSTAINING SOIL SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING VEGETATION SUSTAINING SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. TOPSOIL MAY BE STRIPPED AND STOCKPILED FROM THE SITE OR HAULED IN FROM AN ALTERNATE LOCATION AS APPROVED BY THE ENGINEER.

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

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V:\bridge\3754-Iroquois\3754t001.dgn		DRAWN -	REVISED -
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	PLOT DATE = 1/15/2016	DATE -	REVISED -

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

GENERAL NOTES, TYPICAL SECTIONS, DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 17+75.00 TO STA. 21+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1335	11-00112-01-BR	IROQUOIS	18	2
FED. ROAD DIST. NO. 7 [ILLINOIS]			FED. AID PROJECT BRS-1335(02)	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
① 20200100	EARTH EXCAVATION	CU YD	570
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	85
① 20700220	POROUS GRANULAR EMBANKMENT	CU YD	585
25100630	EROSION CONTROL BLANKET	SQ YD	23
28000305	TEMPORARY DITCH CHECKS	FOOT	36
28000400	PERIMETER EROSION BARRIER	FOOT	190
28000500	INLET AND PIPE PROTECTION	EACH	4
28100209	STONE RIPRAP, CLASS A5	TON	315
28200200	FILTER FABRIC	SQ YD	270
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	639
① 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	146
① 50800105	REINFORCEMENT BARS	POUND	23,870
① 50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,990
② 50900205	STEEL RAILING, TYPE S1	FOOT	47
51500100	NAME PLATES	EACH	1
54003000	CONCRETE BOX CULVERTS	CU YD	170.4
① 54200223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	188
② 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
② 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
② ① 63200310	GUARDRAIL REMOVAL	FOOT	213
67100100	MOBILIZATION	L SUM	1
② 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
① X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.4
① XX008899	FIELD TILE ADJUSTMENT, 8" OR LESS	FOOT	50
① XX008900	FIELD TILE ADJUSTMENT, OVER 8"	FOOT	50

① SEE SPECIAL PROVISIONS
② SPECIALTY ITEMS

CONSTRUCTION CODE TYPE: 0011

AGGREGATE SURFACE COURSE, TYPE B

STATION TO STATION	THICKNESS	WIDTH	LENGTH	TON
17+75.00 - 18+25.00	1.00'	23.17' AVG.	50.00'	81
18+25.00 - 20+75.00	1.00'	25.00'	250.00'	438
20+75.00 - 21+25.00	1.00'	23.45' AVG.	50.00'	82
900 N - LT	1.00'	VARIES	24.00'	38
TOTAL				639

TRAFFIC BARRIER TERMINAL, TYPE 5A

SIDE	STATION TO STATION	EACH
RIGHT	19+69.23 - 19+82.48	1
LEFT	20+17.52 - 20+30.77	1
TOTAL		2

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

SIDE	STATION TO STATION	EACH
RIGHT	19+19.23 - 19+69.23	1
LEFT	20+30.77 - 20+80.77	1
TOTAL		2

PIPE CULVERT REMOVAL

C	SIDE	SIZE	FOOT
19+73	LEFT	18"	44
20+21	RIGHT	18"	22
20+29	LEFT	18"	25
20+94	RIGHT	18"	24
21+10	LEFT	18"	31
TOTAL			146

PIPE CULVERTS, CLASS D, TYPE 1 18"

STATION	SIDE	FOOT
18+85	RIGHT	58
19+67.40	LEFT	40
20+95	RIGHT	46
21+00	LEFT	44
TOTAL		188

GUARDRAIL REMOVAL

STATION TO STATION	SIDE	FOOT
19+32 - 19+82	RIGHT	50
19+79 - 19+95	LEFT	63
20+07 - 20+57	RIGHT	50
20+20 - 20+70	LEFT	50
TOTAL		213

PERIMETER EROSION BARRIER

STATION TO STATION	SIDE	FOOT
18+56 - 19+15	RIGHT	60
19+48 - 19+60	LEFT	15
19+75 - 19+86	LEFT	15
20+71 - 21+17	RIGHT	50
20+77 - 21+21	LEFT	50
TOTAL		190

EROSION CONTROL BLANKET

STATION TO STATION	SIDE	WIDTH	LENGTH	AREA (SQ YD)
20+60 - 20+71	RIGHT	6'	11'	7
20+65 - 20+77	LEFT	6'	12'	8
21+17 - 21+25	RIGHT	6'	8'	5
21+21 - 21+25	LEFT	6'	4'	3
TOTAL				23

EARTHWORK SUMMARY

STATION TO STATION	EARTH EXCAVATION	FILL	WASTE (SHORTAGE)
	CU YD	CU YD	CU YD
RDWY 17+75.00 - 19+88.29	301	39	187
SEE SPECIAL PROVISIONS FOR STRUCTURE AREA EXCAVATION			
RDWY 20+11.71 - 21+25.00	271	28	175
TOTAL	572	67	362
USE	570	-	360

(@ 25% SHRINKAGE)

TEMPORARY DITCH CHECKS

STATION	SIDE	FOOT
19+65	RIGHT	12
20+13	RIGHT	12
20+35	LEFT	12
TOTAL		36

INLET & PIPE PROTECTION

STATION	SIDE	EACH
18+56	RIGHT	1
19+48	LEFT	1
21+17	RIGHT	1
21+21	LEFT	1
TOTAL		4



- 1

ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY

R11-3

- 2

ROAD CLOSED
1 MILE AHEAD
LOCAL TRAFFIC ONLY

R11-3

- 3

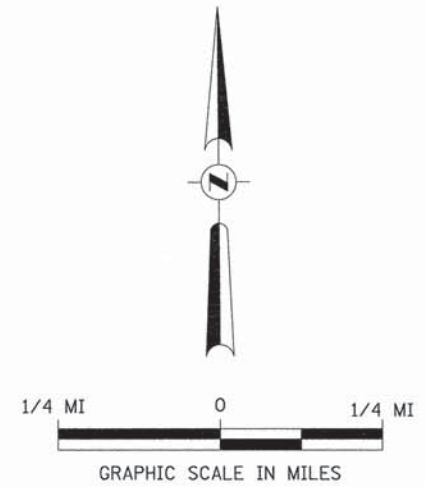
ROAD CLOSED
500 FT

W20-3

- 4

TYPE III BARRICADES

SEE STANDARD BLR 21
AND SPECIAL PROVISIONS



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		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE - 03/02/09	REVISED -

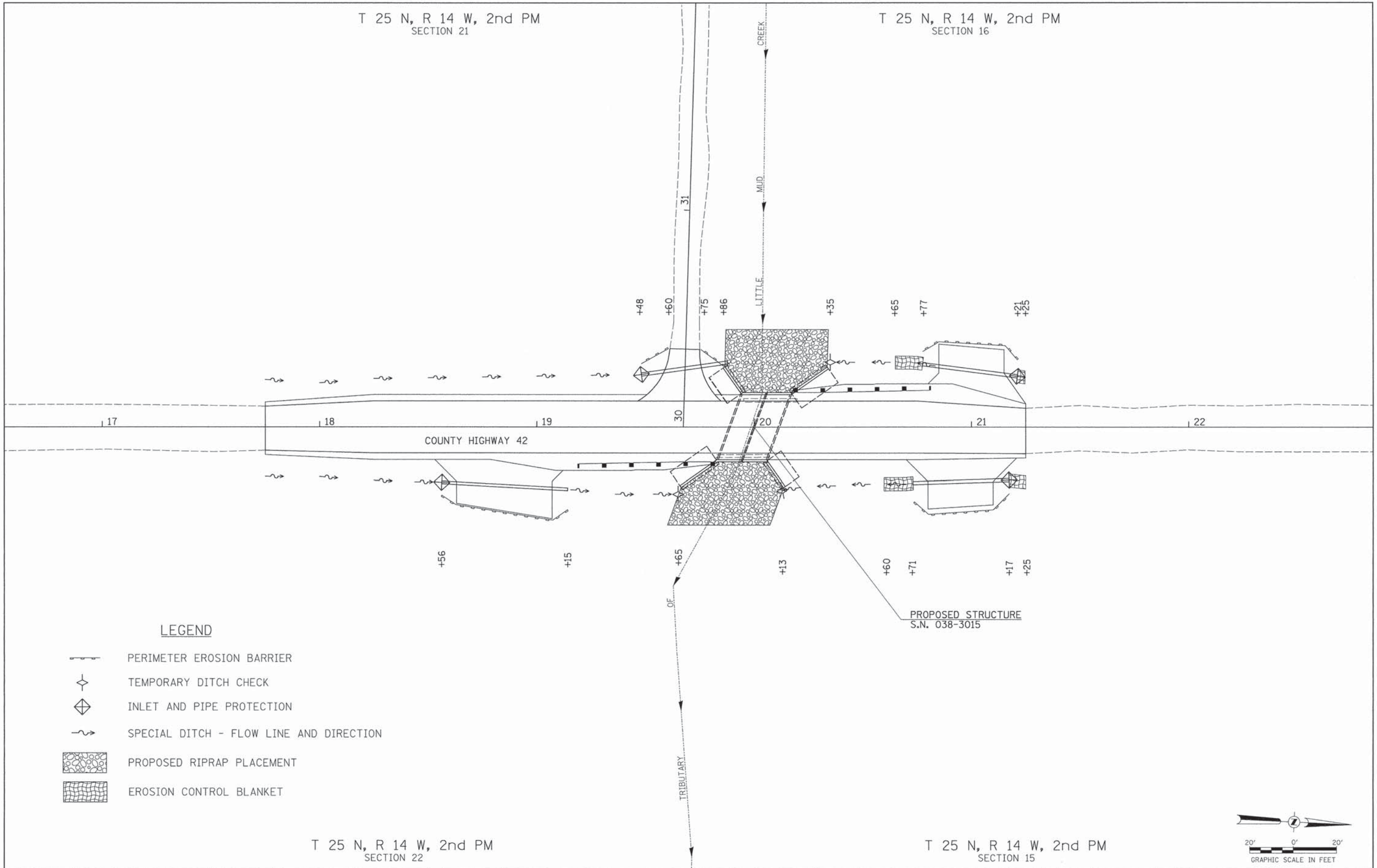
**IROQUOIS COUNTY
COUNTY HIGHWAY 42 OVER
TRIBUTARY OF LITTLE MUD CREEK**

TRAFFIC CONTROL PLAN		
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 17+75.00 TO STA. 21+25.00







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FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1335(02)		

T 25 N, R 14 W, 2nd PM
SECTION 21

T 25 N, R 14 W, 2nd PM
SECTION 16

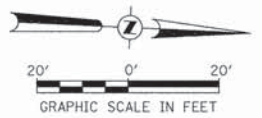


LEGEND

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

T 25 N, R 14 W, 2nd PM
SECTION 22

T 25 N, R 14 W, 2nd PM
SECTION 15



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		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

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

EROSION CONTROL PLAN

SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 17+75.00 TO STA. 21+25.00

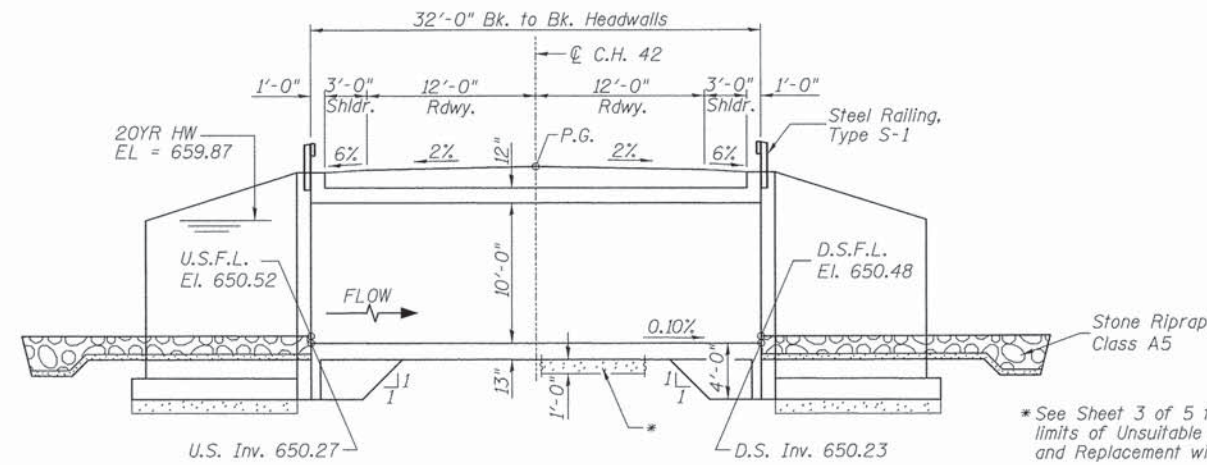
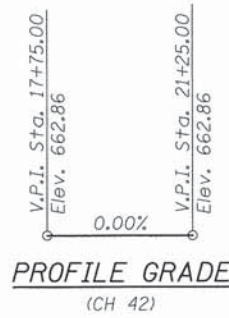
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1335	11-00112-01-BR	IROQUOIS	18	5
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1335(102)	

B.M.: RR Spike in Power Pole
Sta. 16+61, 32' Lt.
Elev. 662.79

RR Spike in Power Pole
Sta. 22+21, 31' Lt.
Elev. 662.45

Existing Structure:
Single span reinforced concrete slab on concrete closed abutments with a concrete rail. The structure is 24'-6" back to back of abutments, 27'-0" out to out of deck, and is skewed 25°. Str. No. 038-3007

Salvage: None
Road to be closed to traffic during construction.



LONGITUDINAL SECTION
Dimensions are at Rt. L's to C Roadway

- * See Sheet 3 of 5 for details showing limits of Unsuitable Material Removal and Replacement with P.G.E.
- ** Terminal Marker-Direct Applied to be placed on Curled End Sections in accordance with Std. 635006
- *** Riprap dimensions are for estimating quantities only.

GENERAL NOTES

The existing abutment footings shall be removed completely within 2' of the limits of the proposed structure. Porous Granular Embankment shall be used to backfill the area. Cost included with Removal of Existing Structures. Reinforcement Bars shall conform to the requirements of ASTM A 706 Grade 60. For backfilling and embankment see Standard Specifications. Precast culvert option will not be allowed. All construction joints shall be bonded. Exposed concrete edges shall have a 3/4" chamfer unless otherwise noted. Layout of the stone riprap/slope protection system may be varied in the field to suit ground conditions as directed by the Engineer. 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 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. See Special Provisions for more detailed information. Reinforcement bars designated (E) shall be epoxy coated. The Required depth of removal and replacement of unsuitable materials may be adjusted by the Engineer to account for variable subsurface conditions. Excavation behind existing abutment walls shall be performed to balance front and back soil pressures before removing the existing superstructure.

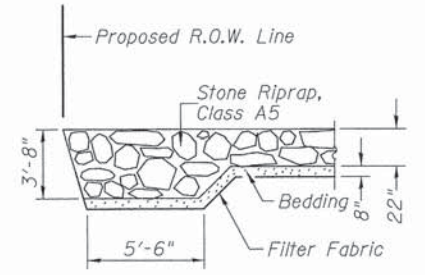
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Box Culverts	CU YD	170.4
Reinforcement Bars	POUND	23,870
Reinforcement Bars, Epoxy Coated	POUND	1,990
Removal of Existing Structures	EACH	1
Name Plates	EACH	1
Stone Riprap, Class A5	TON	315
Filter Fabric	SQ YD	270
Removal & Disposal of Unsuitable Material	CU YD	85
Steel Railing, Type S-1	FOOT	47
Porous Granular Embankment	CU YD	585
Terminal Marker - Direct Applied	EACH	2

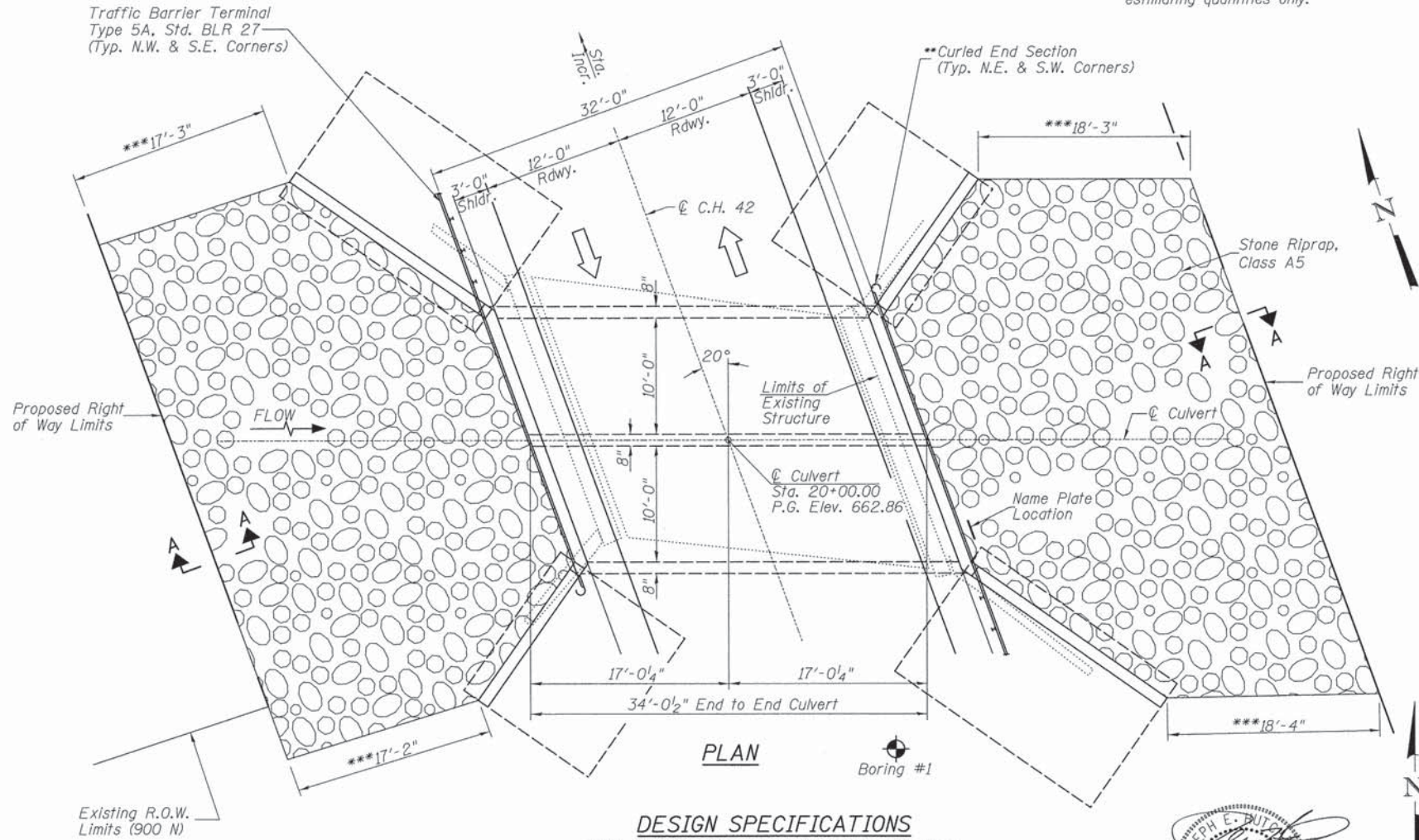
① See Special Provisions

I certify that to the best of my knowledge, information and belief, this culvert 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. This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

Joseph E. Dittus 11/16/2016
Illinois Structural No. 6527
Expires 11/30/2016



SECTION A-A



PLAN

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition & 2015 Interims

DESIGN STRESSES

(FIELD UNITS)
f'c = 5,000 p.s.i.
fy = 60,000 p.s.i. (Rein.)

LOADING HL-93

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



LOCATION SKETCH

GENERAL PLAN & ELEVATION
IROQUOIS COUNTY
SECTION 11-00112-01-BR
C.H. 42 OVER TRIBUTARY
OF LITTLE MUD CREEK
STATION 20+00.00
STRUCTURE NO. 038-3015

TRIBUTARY OF LITTLE MUD CREEK
BUILT 2011 BY
IROQUOIS COUNTY
SEC. 11-00112-01-BR
C.H. 42 STATION 20+00.00
F.A. PROJ. BRS-1335(102)
STR. NO. 038-3015 LOADING HL-93

NAME PLATE

Locate Name Plate at East Headwall
S.E. Corner of Culvert (See Std. 515001)

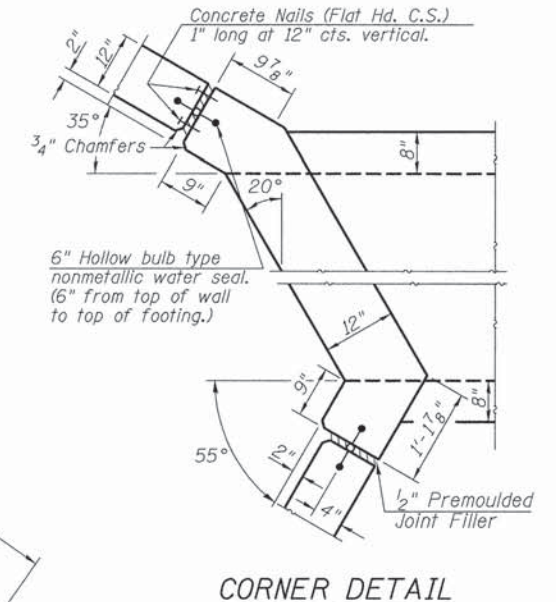
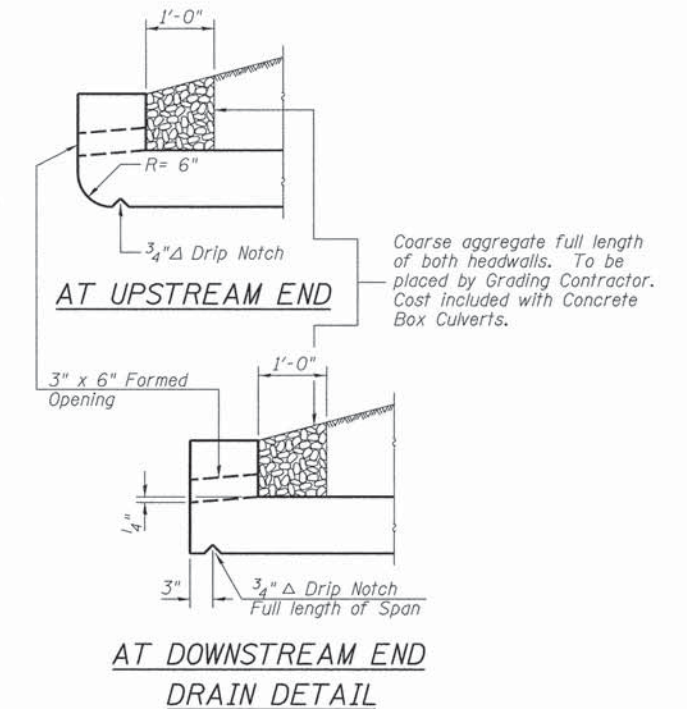
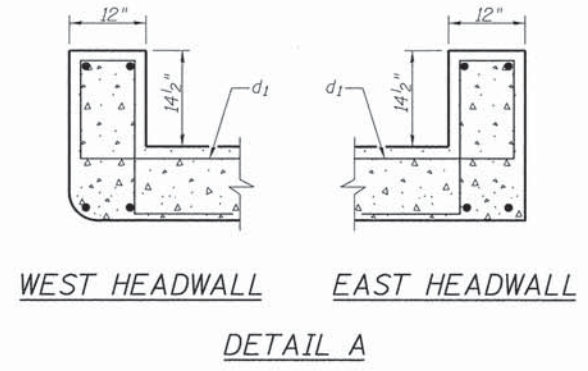
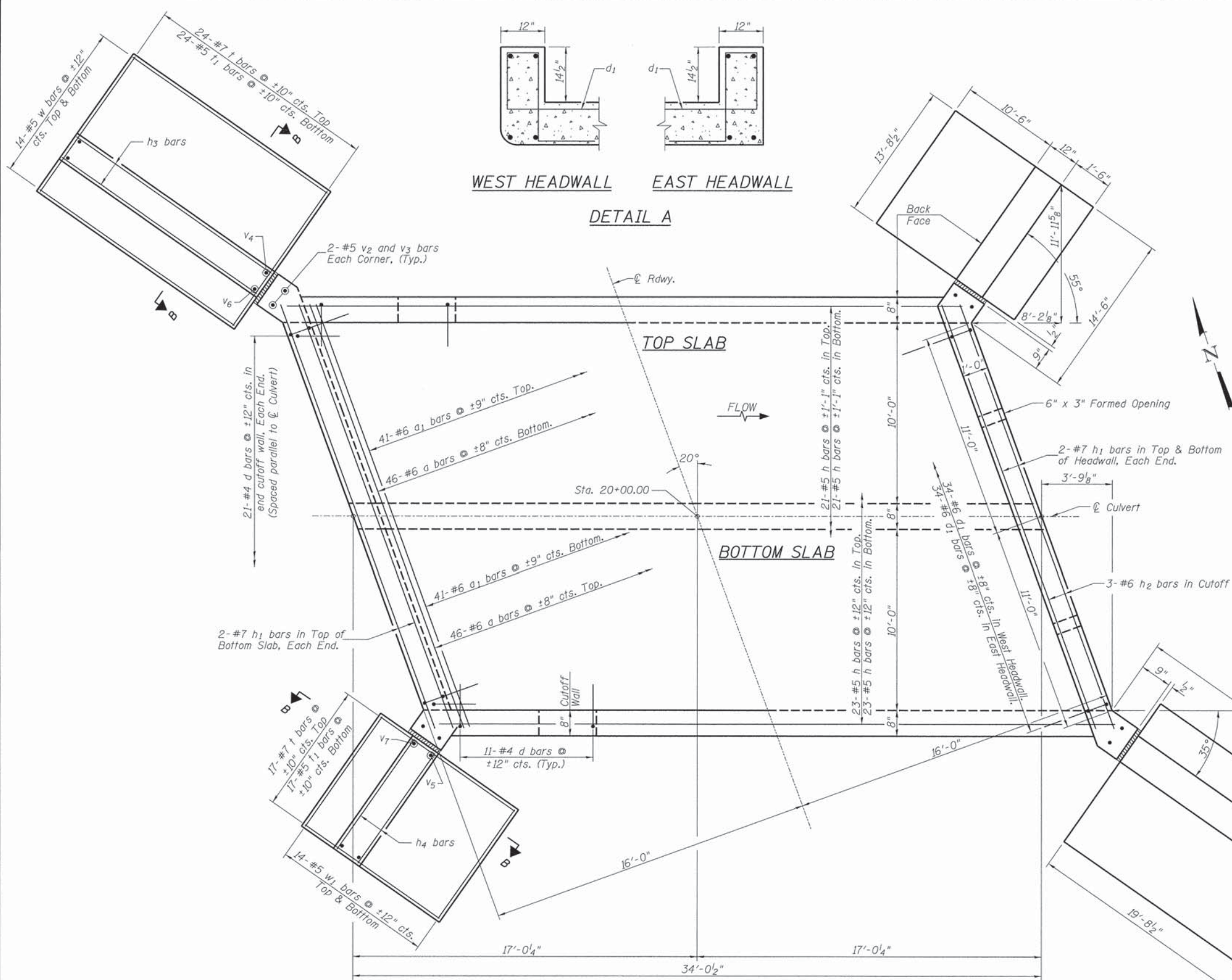
WATERWAY INFORMATION

Drainage Area = 6.19 Sq. Mi. Low Grade Elev. = 662.86 @ Sta. 20+00.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.
			Exist.	Prop.		Exist.	Prop.	
Design	20	1,047	166	192	659.87	0.00	0.00	659.87
Base	100	1,539	186	200	661.09	1.04	0.45	662.13

DESIGNED	S.T.M.
CHECKED	C.T.M.
DRAWN	S.T.M.
CHECKED	C.T.M./B.A.N.





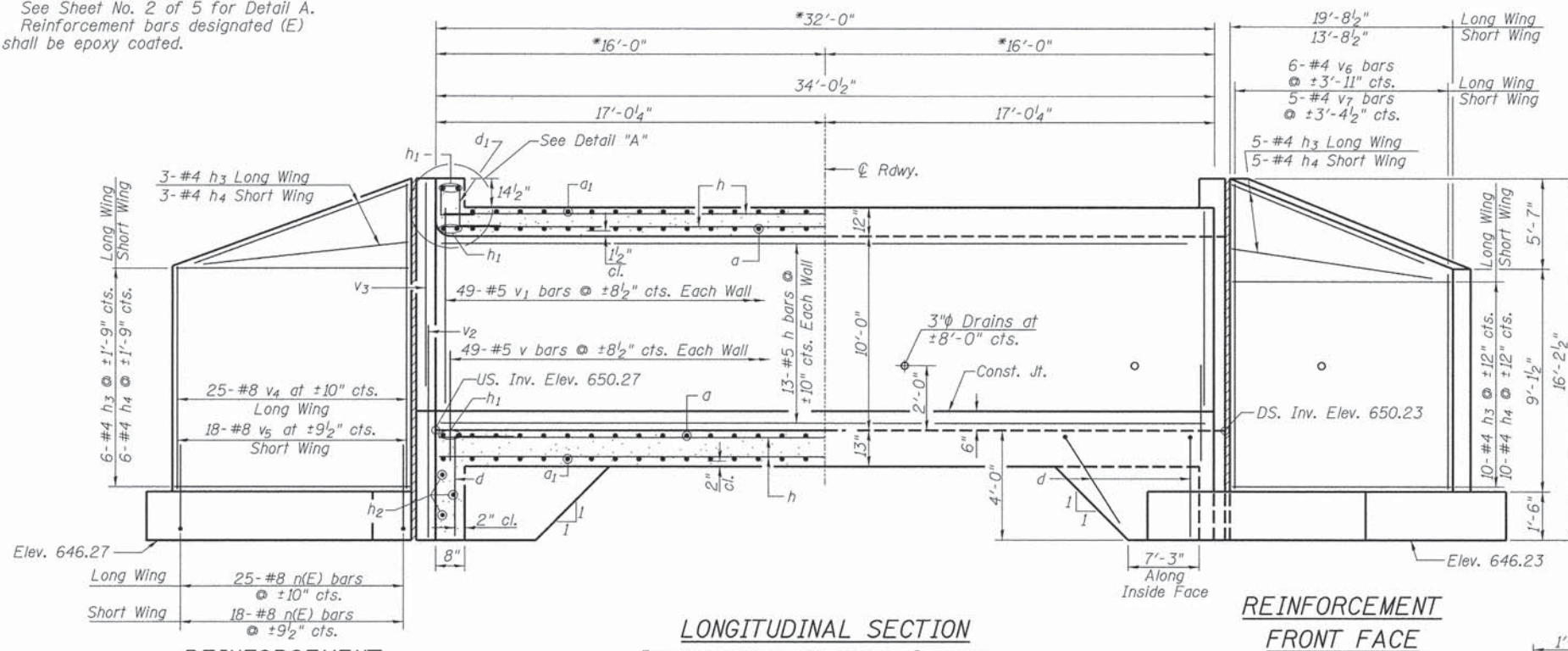
MIN. BAR LAP
#5 = 1'-8"

PLAN
See Sheet No. 3 of 5 for Section B-B.

CULVERT DETAILS
IROQUOIS COUNTY
SECTION 11-00112-01-BR
C.H. 42 OVER TRIBUTARY
OF LITTLE MUD CREEK

SHEET NO. 2 5 SHEETS	F.A.S. RTE. 1335	SECTION 11-00112-01-BR	COUNTY IROQUOIS	TOTAL SHEETS 18	SHEET NO. 8
	S.N. 038-3015		CONTRACT NO. 87620		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1335(102)		

See Sheet No. 2 of 5 for Detail A.
Reinforcement bars designated (E)
shall be epoxy coated.

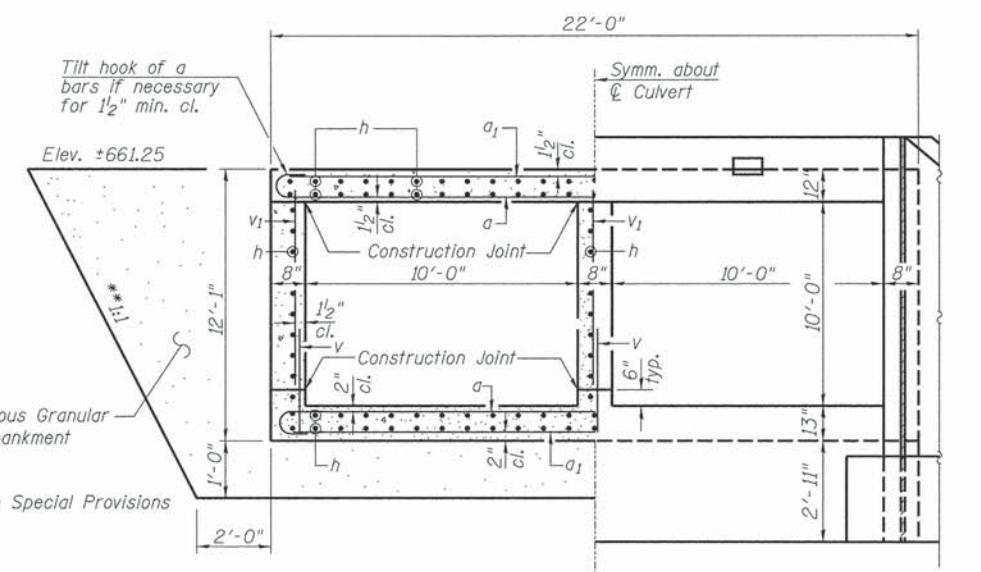


LONGITUDINAL SECTION

*Dimensions are at right angles to C Roadway

REINFORCEMENT FRONT FACE

REINFORCEMENT BACK FACE



HALF SECTION THRU BARREL
Showing Reinforcement

HALF END ELEVATION
Showing Dimensions

BILL OF MATERIAL

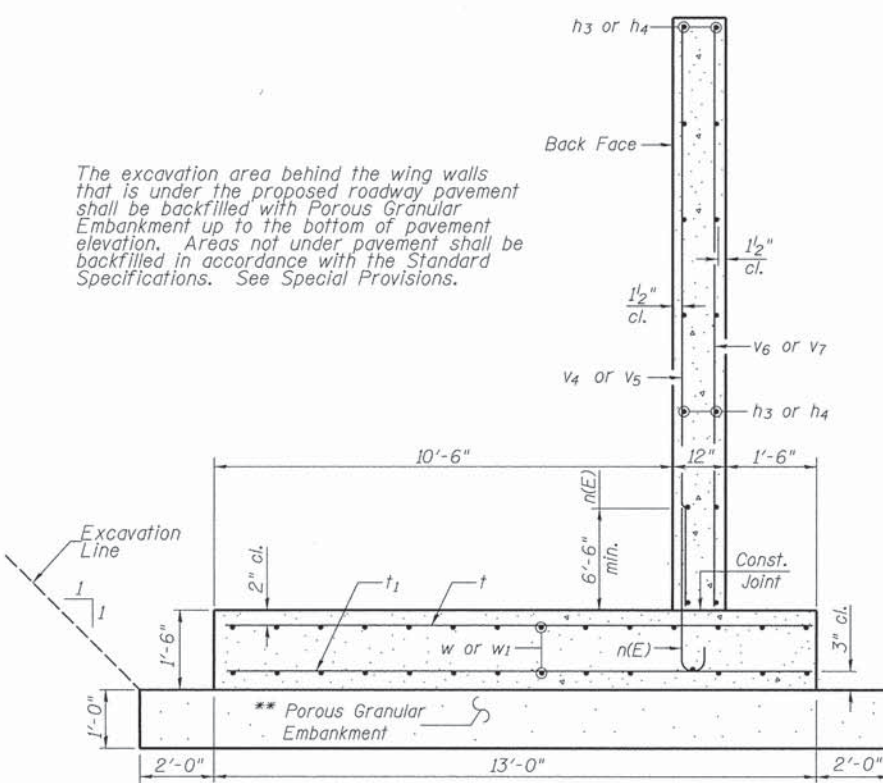
BAR	NO.	SIZE	LENGTH	SHAPE
a	92	#6	24'-5"	U
a ₁	82	#6	23'-1"	—
d	86	#4	5'-6"	L
d ₁	68	#6	8'-5"	U
h	127	#5	33'-9"	—
h ₁	12	#7	23'-0"	—
h ₂	6	#6	23'-0"	—
h ₃	48	#4	19'-5"	—
h ₄	48	#4	13'-5"	—
n(E)	86	#8	8'-8"	U
t	82	#7	12'-8"	—
t ₁	82	#5	12'-8"	—
v	147	#5	3'-4"	—
v ₁	147	#5	10'-2"	—
v ₂	8	#5	6'-2"	—
v ₃	8	#5	11'-5"	—
v ₄	25	#8	23'-3"	—
v ₅	18	#8	23'-3"	—
v ₆	6	#4	23'-3"	—
v ₇	5	#4	23'-3"	—
w	56	#5	19'-5"	—
w ₁	56	#5	13'-5"	—
Concrete Box Culverts			CU YD	170.4
① Reinforcement Bars			POUND	23,870
① Reinforcement Bars, Epoxy Ctd.			POUND	1,990

① See Special Provisions

CULVERT DETAILS
IROQUOIS COUNTY
SECTION 11-00112-01-BR
C.H. 42 OVER TRIBUTARY
OF LITTLE MUD CREEK

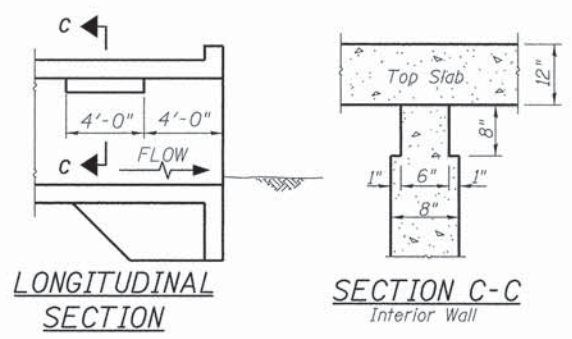
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	S.N. 038-3015		CONTRACT NO. 87620		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-1335(102)			

The excavation area behind the wing walls that is under the proposed roadway pavement shall be backfilled with Porous Granular Embankment up to the bottom of pavement elevation. Areas not under pavement shall be backfilled in accordance with the Standard Specifications. See Special Provisions.



SECTION B-B

Note: Maximum Soil Pressure under Footing = 3,045 psf
The unsuitable material shall be removed and replaced with P.G.E. Limits are 2' outside the footing of each wingwall. The unsuitable material removal shall be paid for with the Removal & Disposal of Unsuitable Material.



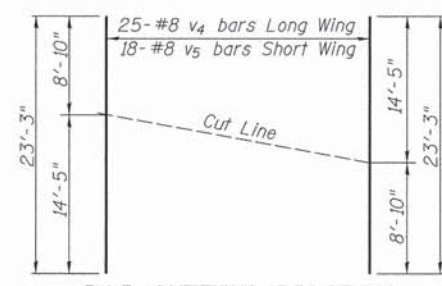
LONGITUDINAL SECTION

SECTION C-C Interior Wall

Note: Notch by rough-finished board attached to and removed with formwork, each interior wall. (Do not chamfer)

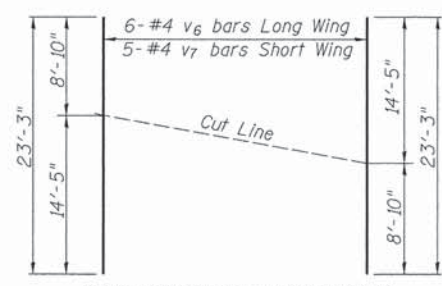
PHOEBE NESTING SITE DETAIL

(Downstream End Only - Cost included with Concrete Box Culverts)



BAR CUTTING DIAGRAM

Order v₄ & v₅ bars full length. Cut as shown and use remainder of bars in other wing.



BAR CUTTING DIAGRAM

Order v₆ & v₇ bars full length. Cut as shown and use remainder of bars in other wing.

MIN. BAR LAP
#5 = 1'-8" (Sidewalls & Corners)
#8 = 6'-4" (Wingwalls)

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

BORING LOG
Sheet 1 of 2

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

Client: Hutchison Engineering Inc.
Project Name: CH-42 Over Tributary Little Mud Creek
Project Site: Section 11-00112-01-BR
Iroquois County, Illinois

Boring No. B-1
Surface Elev. 662.70
Auger Depth 36' Rotary Depth NA
Start Date 10/24/15 Finish Date 10/24/15

Location: 5' Right of Centerline of
Roadway Station 19+69

(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)	
662.70													
661.70	Stiff Brownish Gray Silty Clay		1	SS	1.6	7	B	22					
660.70			2										
659.70	Very Stiff Brownish Gray Silty Clay		3	1	SS	1.6	7	B	22				
658.70			4										
657.70			5	2	SS	2.3	10	B	20				
656.70	Very Stiff Gray Silty Clay		6										
655.70			7										
654.70	Stiff Brownish Gray Clayey Silt		8	3	SS	2.0	9	B	20				
653.70			9										
652.70	Very Stiff Gray Silty Clay		10	4	SS	1.8	8	B	22				
651.70			11										
650.70	Very Stiff Gray Silty Clay		12										
649.70			13	5	SS	3.2	18	B					
648.70	Very Stiff Gray Silty Clay		14										
647.70			15	6	SS	3.5	19	B					
646.70	Stiff Gray Clay		16										
645.70			17										
644.70	Stiff Gray Clay		18	7	SS	2.3	12	B	20				
643.70			19										
642.70			20	8	SS	1.9	9	B	26				

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments:

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

BORING LOG
Sheet 2 of 2

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

Client: Hutchison Engineering Inc.
Project Name: CH-42 Over Tributary Little Mud Creek
Project Site: Section 11-00112-01-BR
Iroquois County, Illinois

Boring No. B-1
Surface Elev. 662.70
Auger Depth 36' Rotary Depth NA
Start Date 10/24/15 Finish Date 10/24/15

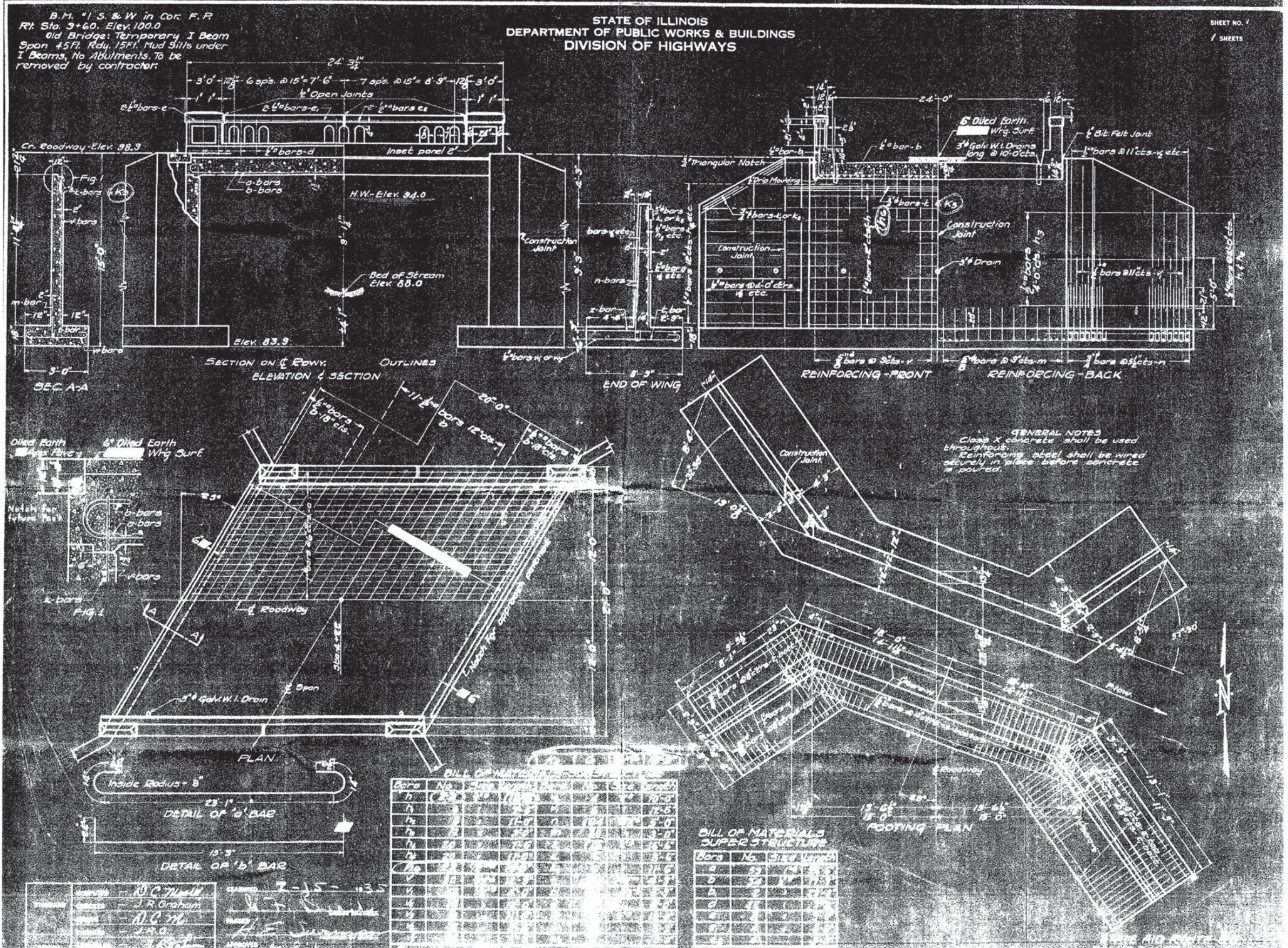
Location: 5' Right of Centerline of
Roadway Station 19+69

(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)	
641.70													
640.70	Stiff Gray Clay		22										
639.70			23	9	SS	1.8	9	B	27				
638.70	Very Stiff Gray Silty Clay Till		24										
637.70			25	10	SS	2.5	13	B	16				
636.70			26										
635.70	Very Stiff Gray Silty Clay Till		27										
634.70			28	11	SS	3.1	15	B					
633.70	Very Stiff Gray Silty Clay Till		29										
632.70			30	12	SS	2.7	14	B					
631.70	Very Stiff Gray Silty Clay Till		31										
630.70			32	13	SS	3.0	15	B					
629.70	Very Stiff Gray Silty Clay Till		33										
628.70			34	14	SS	2.4	13	B					
627.70	Very Stiff Gray Silty Clay Till		35										
626.70			36										
625.70	Very Stiff Gray Silty Clay Till		37										
624.70			38										
623.70	Very Stiff Gray Silty Clay Till		39										
622.70			40										
621.70	Very Stiff Gray Silty Clay Till		41										

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments:

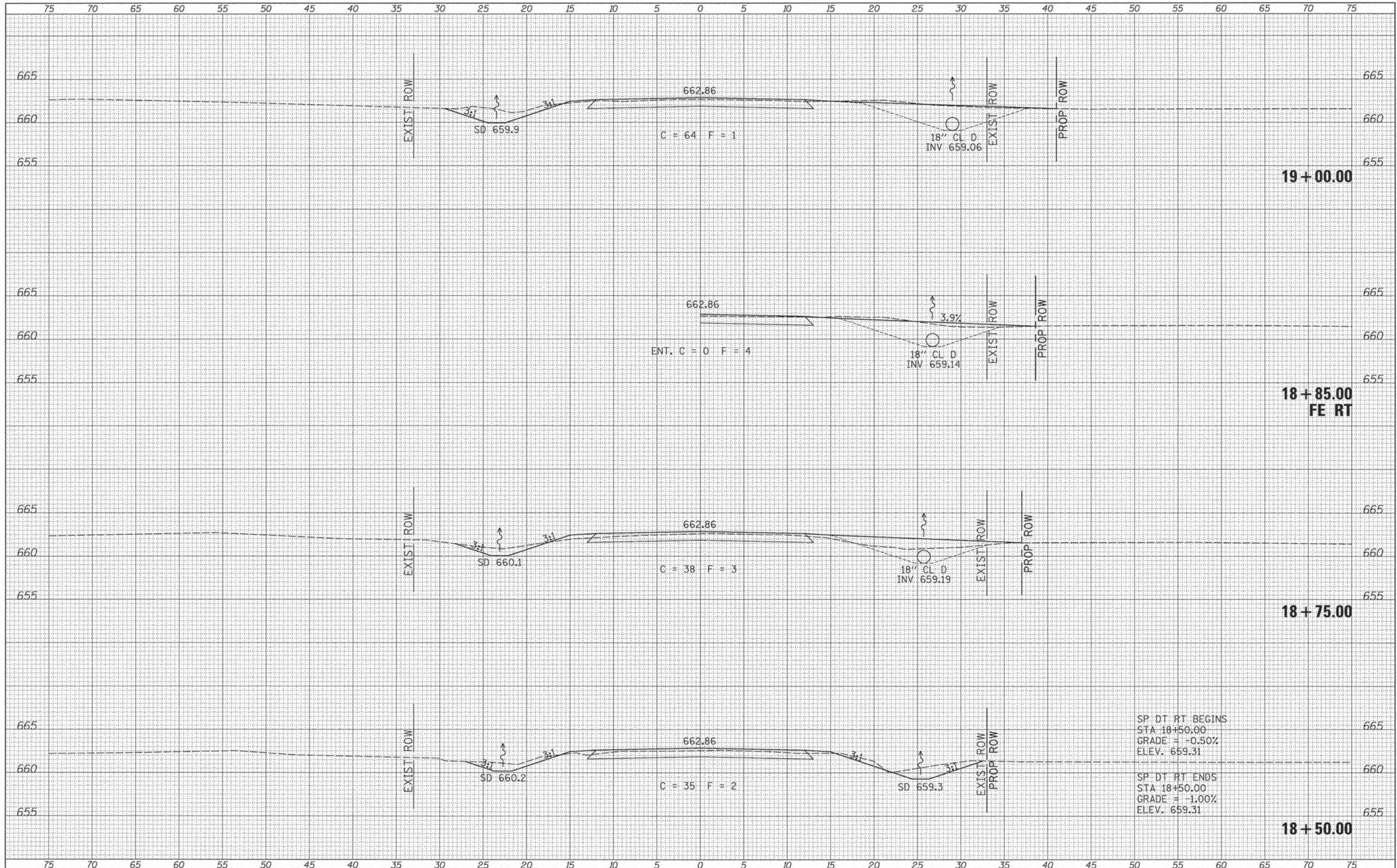
SOIL BORINGS
IROQUOIS COUNTY
SECTION 11-00112-01-BR
C.H. 42 OVER TRIBUTARY
OF LITTLE MUD CREEK

SHEET NO. 5	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	1335	11-00112-01-BR	IROQUOIS	18	11
5 SHEETS	S.N. 038-3015		CONTRACT NO. 87620		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1335(102)		



EXISTING PLANS
IROQUOIS COUNTY
SECTION 11-00112-01-BR
C.H. 42 OVER TRIBUTARY
OF LITTLE MUD CREEK

SHEET NO. 1 1 SHEETS	F.A.S. RTE. 1335	SECTION 11-00112-01-BR	COUNTY IROQUOIS	TOTAL SHEETS 18	SHEET NO. 12
	S.N. 038-3015		CONTRACT NO. 87620		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-1335(102)		



DATE	
BY	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
PLATTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
PLATTED	
TEMPLATE	
AREAS CHECKED	

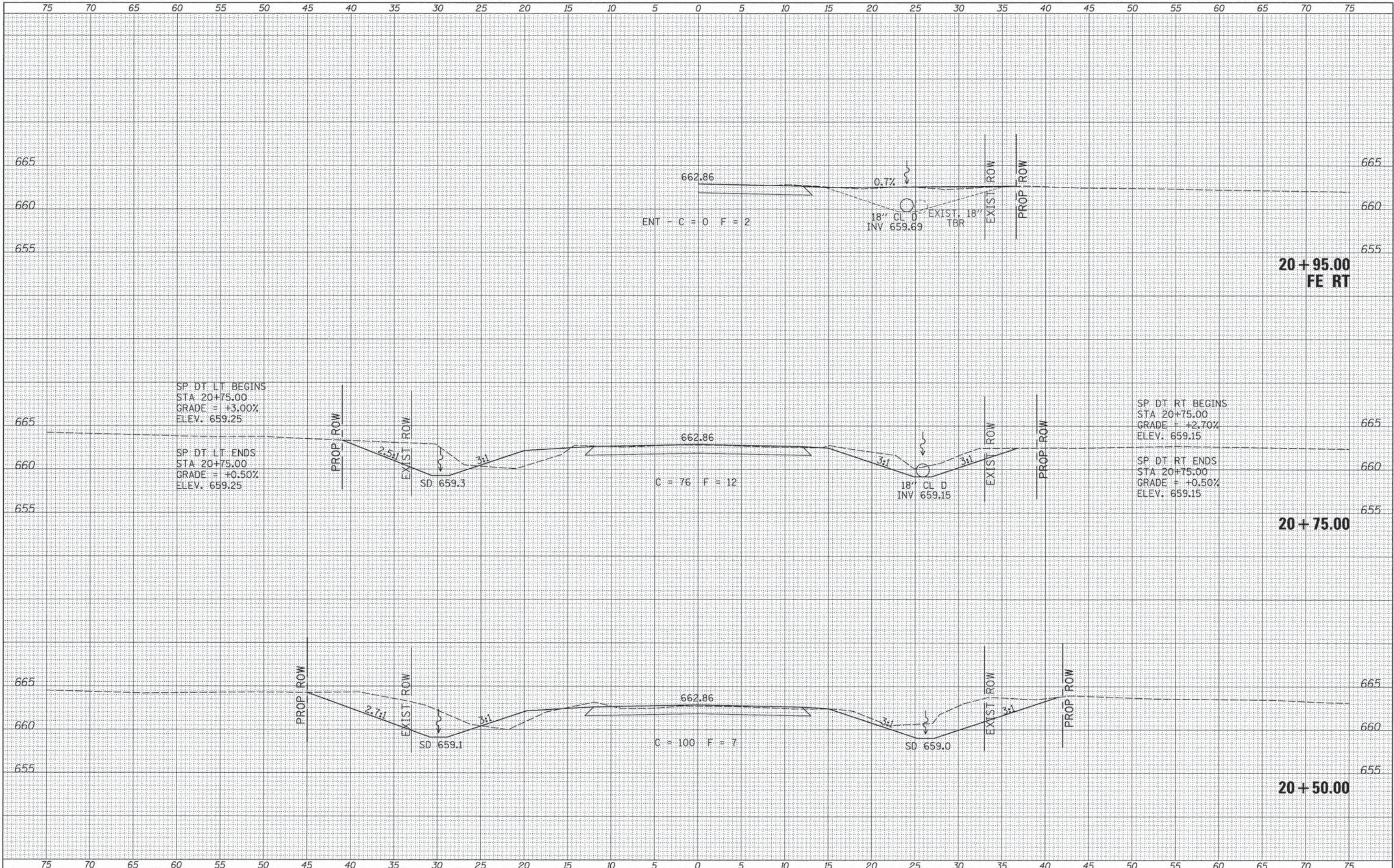
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V:\Bridge\3754-Iroquois\3754xhts.dgn		DRAWN -	REVISED -			1335	11-00112-01-BR	IROQUOIS	18	14	
PLOT SCALE = 5,0000' / 1" =		CHECKED -	REVISED -			CONTRACT NO. 87620					
PLOT DATE = 1/15/2016		DATE -	REVISED -			SCALE: 1"=5'		SHEET 2 OF 6 SHEETS		STA. 18+50.00 TO STA. 19+00.00	

SP DT RT BEGINS
STA 18+50.00
GRADE = -0.50%
ELEV. 659.31

SP DT RT ENDS
STA 18+50.00
GRADE = -1.00%
ELEV. 659.31

DATE	
BY	
NO.	
FINISHED SURVEY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

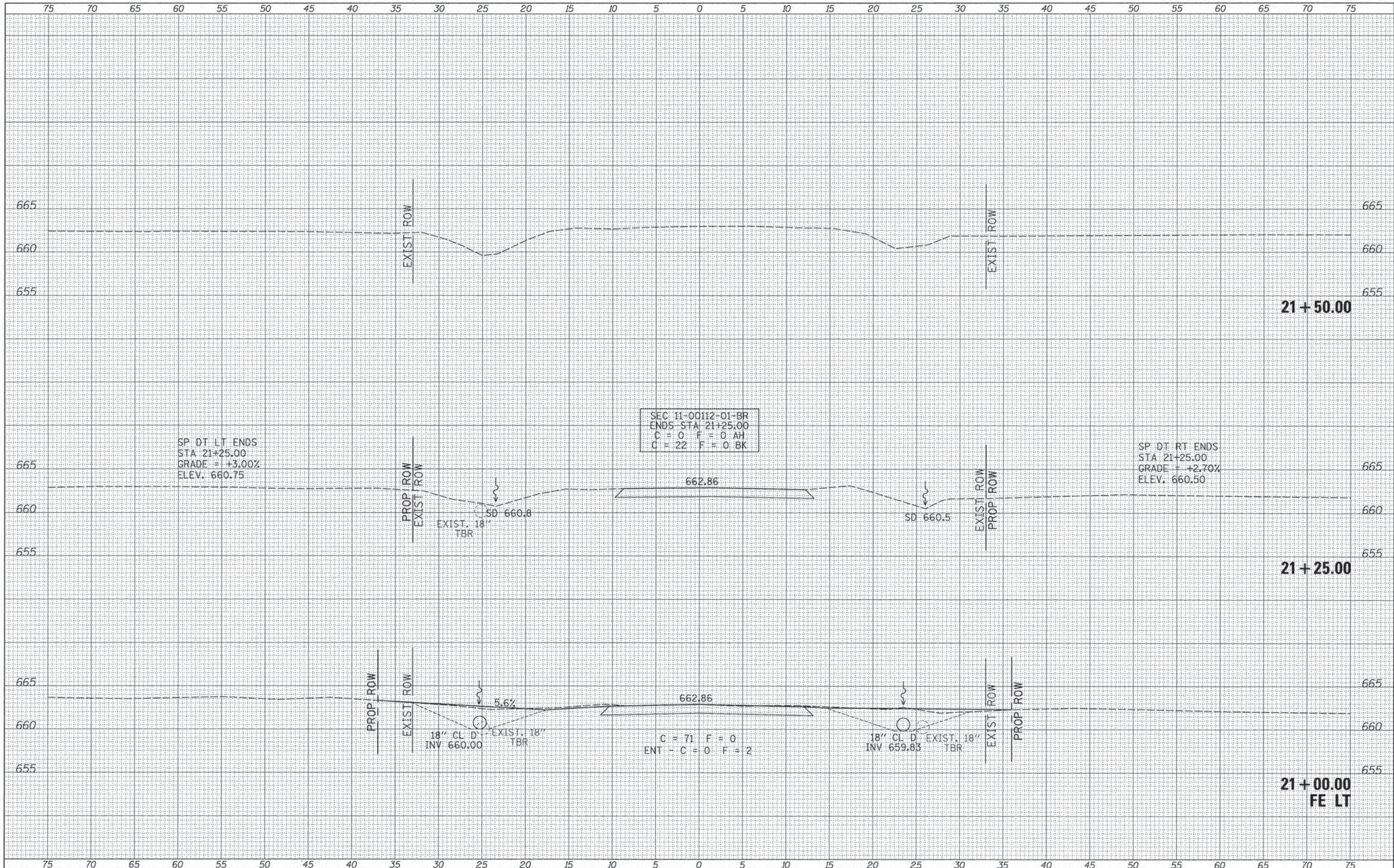
DATE	
BY	
NO.	
FINISHED SURVEY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	



FILE NAME = V:\bridge\3754-Iroquois\3754xshs.dgn	USER NAME = JHutchison	DESIGNED -	REVISED -	IROQUOIS COUNTY COUNTY HIGHWAY 42 OVER TRIBUTARY OF LITTLE MUD CREEK	CROSS SECTIONS		F.A.S. RTE. 1335	SECTION 11-00112-01-BR	COUNTY IROQUOIS	TOTAL SHEETS 18	SHEET NO. 17
MODELNAME =	PLOT SCALE = 5.0000' / 1" =	DRAWN -	REVISED -		SCALE: 1"=5'	SHEET 5	OF 6 SHEETS	STA. 20+50.00	TO STA. 20+95.00	FED. ROAD DIST. NO. 7 [ILLINOIS]	FED. AID PROJECT BRS-1335(102)
	PLOT DATE = 1/15/2016	CHECKED -	REVISED -								
		DATE -	REVISED -								

DATE	
BY	
FINISHED SURVEY	
NOTED SURVEY	
PLOTTED SURVEY	
TEMPLATE SURVEY	
AREAS CHECKED SURVEY	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED SURVEY	
PLOTTED SURVEY	
TEMPLATE SURVEY	
AREAS CHECKED SURVEY	
NO.	



FILE NAME =	USER NAME = JHutchison	DESIGNED -	REVISED -	IROQUOIS COUNTY COUNTY HIGHWAY 42 OVER TRIBUTARY OF LITTLE MUD CREEK	CROSS SECTIONS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
V:\Bridge\3754-Iroquois\3754\shs.dgn	PLOT SCALE = 5.0000' / 1"	DRAWN -	REVISED -			1335	11-00112-01-BR	IROQUOIS	18	18	
MODELNAME#	PLOT DATE = 1/15/2016	CHECKED -	REVISED -			CONTRACT NO. 87620					
		DATE -	REVISED -			FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BR5-1335(102)			

SCALE: 1"=5' SHEET 6 OF 6 SHEETS STA. 21+00.00 TO STA. 21+50.00