

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
238	16-00160-00-BR	HENRY	25	1
FED. ROAD DIST. NO. 7	ILLINOIS	CONTRACT NO. 85672		

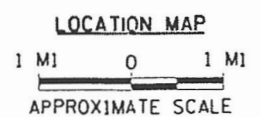
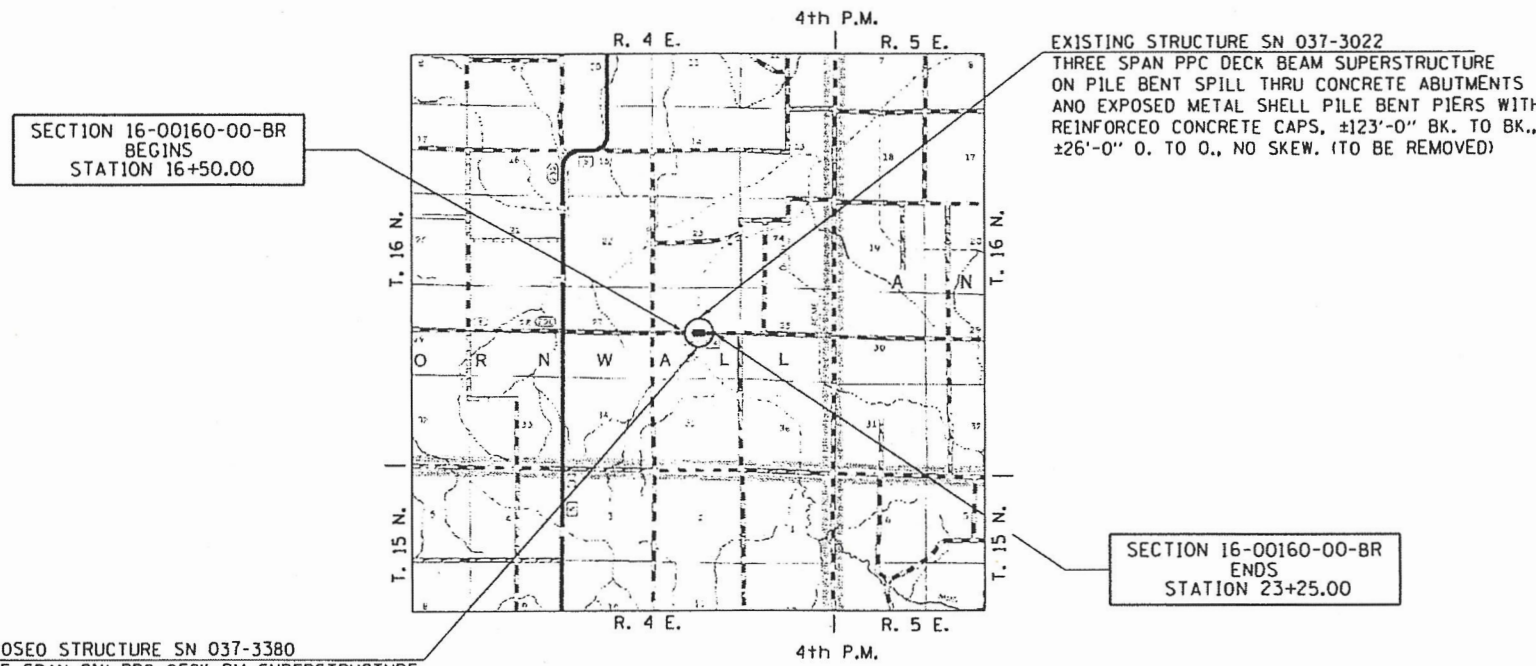
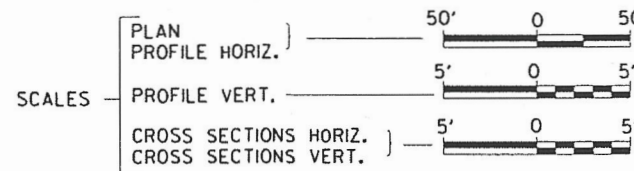
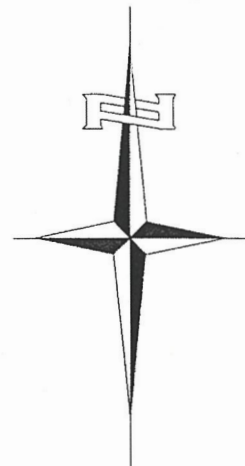
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM-BRIDGE
HENRY COUNTY
SECTION 16-00160-00-BR
F.A.S. 238 (CH 14) OVER MUD CREEK
PROJECT NO. 3NH0(574)
JOB NUMBER C-92-033-17

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	GENERAL NOTES, TYPICAL SECTIONS, PAVEMENT DESIGN INFORMATION
3.	SUMMARY OF QUANTITIES, SCHEDULES OF QUANTITIES
4.	TRAFFIC CONTROL PLAN
5.	STORM WATER POLLUTION PREVENTION PLAN
6.	PLAN AND PROFILE
7. -17.	STRUCTURE PLANS
18. -25.	CROSS SECTIONS

REQUIRED HIGHWAY STANDARDS

- 000001-06
- 280001-07
- 515001-03
- 630001-12
- 630301-08
- 631032-09
- 701001-02
- 701006-05
- 701901-07
- 725001-01
- 728001-01
- 729001-01
- BLR 21-9
- BLR 26-3



UTILITY COMPANIES

AMEREN IP
LaSALLE, ILLINOIS

HENRY COUNTY TELEPHONE
GENESEO, ILLINOIS

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

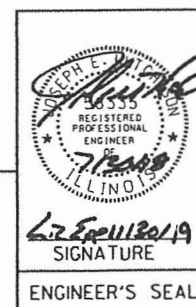
CONTRACT NO. 85672

NET LENGTH OF PROJECT = 675.00 FEET = 0.128 MILES

DESIGN CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
DESIGN ADT = 225 (2018)
DESIGN SPEED = 60 MPH

Hutchison Engineering, Inc.
JACKSONVILLE-SHOREWOOD
PEORIA-QUAD CITIES

2018 JOB#4217



APPROVED July 17, 2018
Scott A. Stephenson
HENRY COUNTY ENGINEER

PASSED 7/31/18 2018
Andy M. Bouda
DISTRICT TWO ENGINEER OF LOCAL ROADS & STREETS

Released For Bid Based on Limited Review 8-1- 2018
[Signature]
REGION TWO ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENGINEER'S SEAL

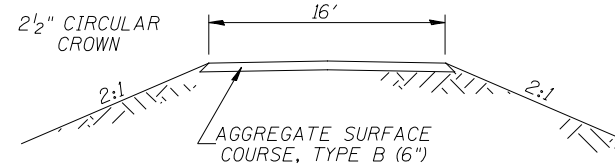
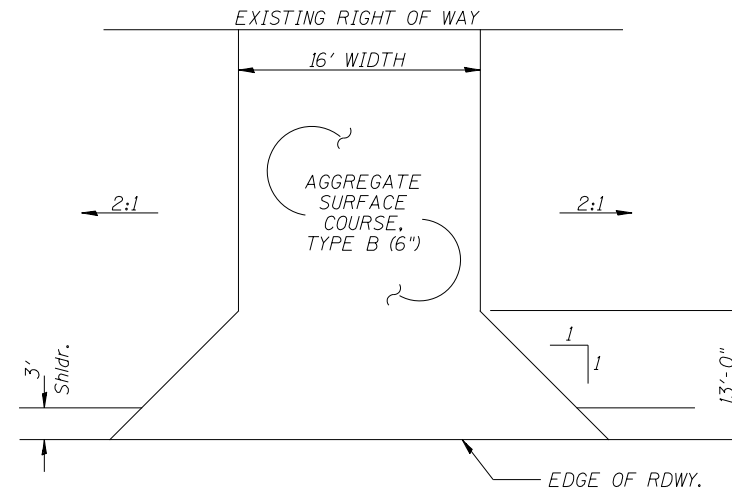
STRUCTURAL DESIGN INFORMATION
COUNTY HIGHWAY 14

ROAD CLASSIFICATION: CLASS IV 80,000 lb./20 YEAR DESIGN
 STRUCTURAL DESIGN TRAFFIC:
 PV = 198 SU = 20 MU = 7
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P = 88% S = 9% M = 3%
 DESIGN E_{ri} : 3 ksi
 ASPHALT PAVEMENT THICKNESS: 3 3/4"
 AGGREGATE BASE COURSE, TYPE A: 8"

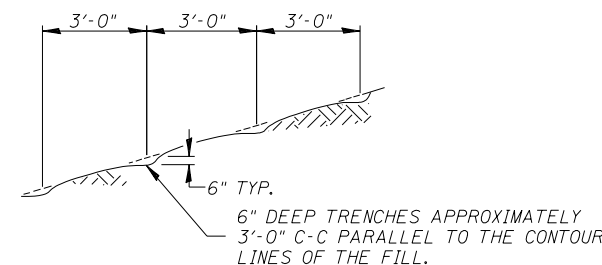
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

	HMA BINDER	HMA SURFACE
PG GRADE	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4% @ N50	4% @ N50
MIXTURE COMPOSITION	IL-19.0	IL-9.5
FRICITION AGGREGATE		MIXTURE C
DENSITY TEST METHOD	LR1030	LR1030
MIXTURE WEIGHT	112#/SQ. YD./IN.	112#/SQ. YD./IN.

If RAP option is selected, the asphalt cement grade may need to be adjusted. This will be determined by the Engineer.

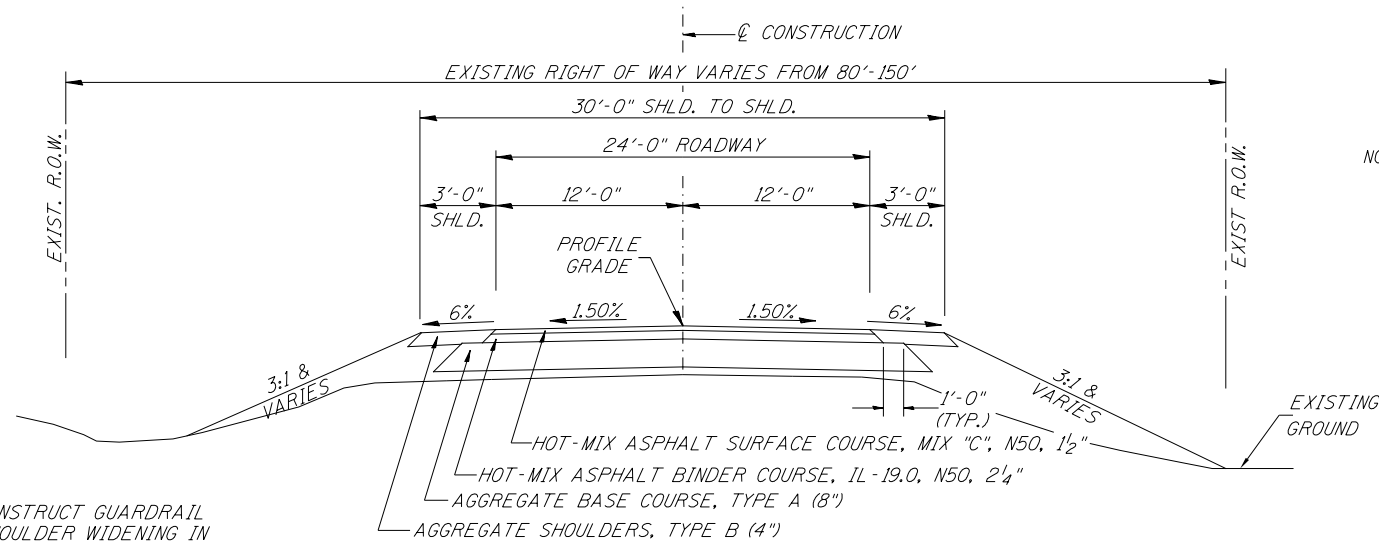


PROPOSED FIELD ENTRANCES
 STA 19+15 LT
 STA 20+85 RT



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).

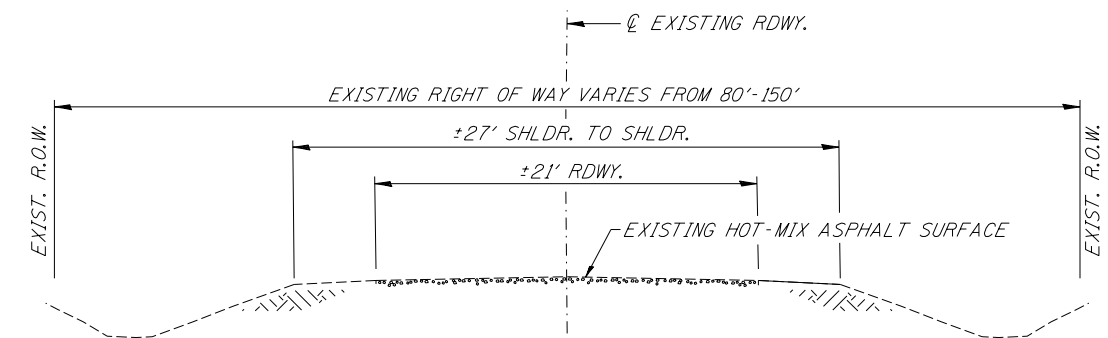
DETAIL OF CONTOUR PLOWING



PROPOSED TYPICAL SECTION

STA. 16+50.00 TO STA. 19+33.00
 STA. 20+67.00 TO STA. 23+25.00
 EXCEPT TRANSITIONS

BRIDGE OMISSION
 STA. 19+33.00 TO STA. 20+67.00



EXISTING TYPICAL SECTION

GENERAL NOTES

THE REMOVAL OF EXISTING ASPHALT 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 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.

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 SEED. 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.

FILE NAME =	USER NAME = SMierzwa	DESIGNED -	REVISED -
V:\4217 - CH 14 over Mud Creek (Henry)\CADD\CADD Sheets\4217\001.dgn		DRAWN -	REVISED -
PLOT SCALE = 2.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 7/30/2018		DATE -	REVISED -

**HENRY COUNTY
 COUNTY HIGHWAY 14
 OVER MUD CREEK**

**GENERAL NOTES, TYPICAL SECTIONS,
 PAVEMENT DESIGN INFORMATION**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 16+50.00 TO STA. 23+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
238	16-00160-00-BR	HENRY	25	2
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. 3NH015741	

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	285
20300100	CHANNEL EXCAVATION	CU YD	900
20400800	FURNISHED EXCAVATION	CU YD	195
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	500
28000400	PERIMETER EROSION BARRIER	FOOT	1,195
28000500	INLET AND PIPE PROTECTION	EACH	3
28100209	STONE RIPRAP, CLASS A5	TON	1,060
28200200	FILTER FABRIC	SQ YD	900
35100100	AGGREGATE BASE COURSE, TYPE A	TON	676
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	46
① 40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3,528
① 40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	181
① 40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	168
48101200	AGGREGATE SHOULDERS, TYPE B	TON	108
① 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	80
50200300	COFFERDAM EXCAVATION	CU YD	125
50201101	COFFERDAM (TYPE 1) (LOCATION-1)	EACH	1
50201102	COFFERDAM (TYPE 1) (LOCATION-2)	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	131.7
50300280	CONCRETE ENCASEMENT	CU YD	5.1
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	3,958
50800105	REINFORCEMENT BARS	POUND	10,470
51200958	FURNISHING METAL SHELL PILES 14"X0.250"	FOOT	1,298
51202305	DRIVING PILES	FOOT	1,298
51203200	TEST PILE METAL SHELLS	EACH	4
51500100	NAME PLATES	EACH	1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	447
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	400
① 59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	15.7
△ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	100
△ 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	2
△ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
67100100	MOBILIZATION	L SUM	1
△ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
① X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.3
① X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1
① Z0013798	CONSTRUCTION LAYOUT	L SUM	1
△ XX006199	STEEL BRIDGE RAIL, TYPE SM (SPECIAL)	FOOT	268

① SEE SPECIAL PROVISIONS
NOTE: PAVEMENT MARKING DONE BY OTHERS

CONSTRUCTION CODE TYPE: 0010

△ SPECIALTY ITEMS

AGGREGATE SHOULDERS, TYPE B

STATION TO STATION	SIDE	WIDTH	LENGTH	TON
16+50.00 - 17+40.00	LEFT	2.80' AVG.	90.00'	6
16+50.00 - 17+40.00	RIGHT	3.45' AVG.	90.00'	7
17+40.00 - 19+04.09	LEFT	3.00'	164.09'	11
17+40.00 - 17+55.50	RIGHT	3.00'	15.50'	1
17+55.50 - 17+85.50	RIGHT	5.50' AVG.	30.00'	4
17+85.50 - 18+20.50	RIGHT	8.00'	35.00'	7
18+20.50 - 18+45.50	RIGHT	7.88' AVG.	25.00'	5
18+45.50 - 19+10.50	RIGHT	7.75'	65.00'	12
19+10.50 - 19+33.00	RIGHT	5.88' AVG.	22.50'	3
20+67.00 - 20+89.50	LEFT	5.88' AVG.	22.50'	3
20+89.50 - 21+54.50	LEFT	7.75'	65.00'	12
20+95.91 - 22+35.00	RIGHT	3.00'	139.09'	10
21+54.50 - 21+79.50	LEFT	7.88' AVG.	25.00'	5
21+79.50 - 22+14.50	LEFT	8.00'	35.00'	7
22+14.50 - 22+46.04	LEFT	5.46' AVG.	31.54'	4
22+35.00 - 23+25.00	RIGHT	2.95' AVG.	90.00'	6
22+46.04 - 23+25.00	LEFT	2.65' AVG.	78.96'	5
TOTAL				108

TRAFFIC BARRIER TERMINAL, TYPE 6A

STATION TO STATION	SIDE	EACH
18+95.50 - 19+33.00	RIGHT	1
20+67.00 - 21+04.50	LEFT	1
TOTAL		2

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

STATION TO STATION	SIDE	EACH
17+95.50 - 18+45.50	RIGHT	1
21+54.50 - 22+04.50	LEFT	1
TOTAL		2

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS

STATION TO STATION	SIDE	FOOT
18+45.50 - 18+95.50	RIGHT	50
21+04.50 - 21+54.50	LEFT	50
TOTAL		100

EARTHWORK SUMMARY

STATION TO STATION	EARTH EXCAVATION	CHANNEL EXCAVATION	STRUCTURE EXCAVATION	COFFERDAM EXCAVATION	FILL	WASTE (SHORTAGE)						
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD						
RDWY 16+50.00 - 19+33.00	121				267	(176)						
RDWY 20+67.00 - 23+25.00	164				142	(19)						
CHANNEL		900										
STRUCTURE			80									
COFFERDAM				125								
TOTAL							285	900	80	125	409	(195)
USE							285	900	80	125	-	(195)

(@ 25% SHRINKAGE)

PERIMETER EROSION BARRIER

STATION TO STATION	SIDE	FOOT
16+50 - 19+33	LEFT	320
16+50 - 19+33	RIGHT	300
20+67 - 23+25	LEFT	275
20+67 - 23+25	RIGHT	300
TOTAL		1,195

INLET AND PIPE PROTECTION

STATION	SIDE	EACH
18+97	RIGHT	1
19+01	LEFT	1
20+96	LEFT	1
TOTAL		3

AGGREGATE SURFACE COURSE, TYPE B

STATION TO STATION	THICKNESS	WIDTH	LENGTH	TON
ENTRANCE - 19+15 LT	0.50'	16' & VAR.	33.2'	23
ENTRANCE - 20+85 RT	0.50'	16' & VAR.	33.2'	23
TOTAL				46

PAVEMENT SCHEDULE

STATION TO STATION	WIDTH	LENGTH	PRIME COAT POUND 0.25 LBS/SQ FT	HOT-MIX ASPHALT BINDER CSE TON 112#/SQ YD/IN	HOT-MIX ASPHALT SURF CSE TON 112#/SQ YD/IN	AGGREGATE BASE COURSE, TYPE A TON
16+50.00 - 17+40.00	25.00' AVG.	90.00'	563			
17+40.00 - 19+33.00	26.63'	193.00'	1,285			
20+67.00 - 22+35.00	26.63'	168.00'	1,118			
22+35.00 - 23+25.00	24.99' AVG.	90.00'	562			
16+50.00 - 17+40.00	22.81' AVG.	90.00'		29		
17+40.00 - 19+33.00	24.44'	193.00'		66		
20+67.00 - 22+35.00	24.44'	168.00'		57		
22+35.00 - 23+25.00	22.80' AVG.	90.00'		29		
16+50.00 - 17+40.00	22.50' AVG.	90.00'			19	
17+40.00 - 19+33.00	24.13'	193.00'			43	
BRIDGE DECK	30.00'	134.00'			49	
20+67.00 - 22+35.00	24.13'	168.00'			38	
22+35.00 - 23+25.00	22.49' AVG.	90.00'			19	
16+50.00 - 17+40.00	25.67' AVG.	90.00'				108
17+40.00 - 19+33.00	27.30'	193.00'				246
20+67.00 - 22+35.00	27.30'	168.00'				214
22+35.00 - 23+25.00	25.66' AVG.	90.00'				108
TOTAL			3,528	181	168	676

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PLOT DATE = 7/30/2018	DATE -	REVISED -	REVISED -

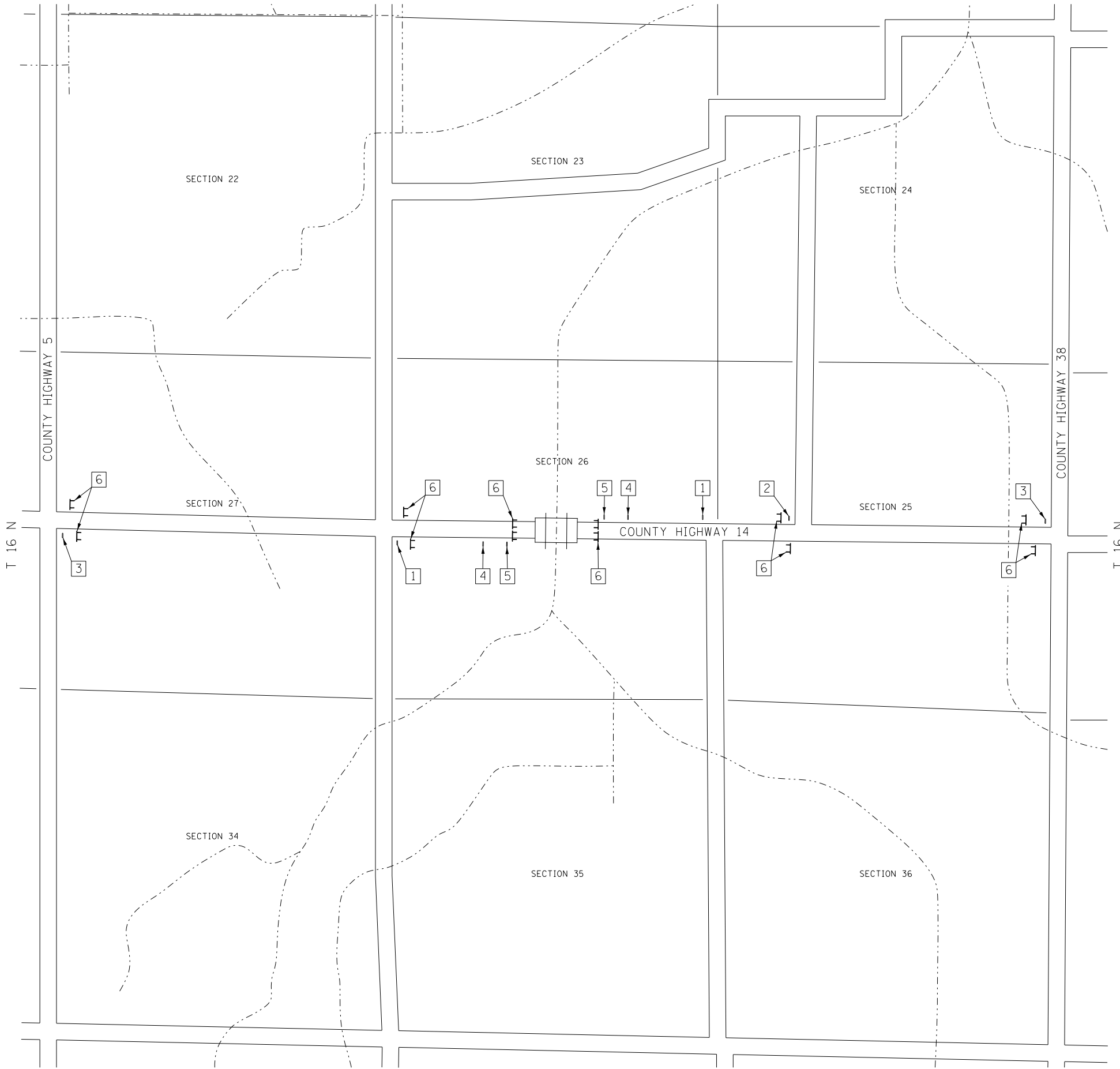
**HENRY COUNTY
COUNTY HIGHWAY 14
OVER MUD CREEK**

**SUMMARY OF QUANTITIES,
SCHEDULES OF QUANTITIES**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 16+50.00 TO STA. 23+25.00

F.A.S. RTE. 238	SECTION 16-00160-00-BR	COUNTY HENRY	TOTAL SHEETS 25	SHEET NO. 3
CONTRACT NO. 85672			FED. ROAD DIST. NO. 7 ILLINOIS	
FED. AID PROJECT NO. 3NH015749				

R 4 E, 4th PM



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

ROAD CLOSED
1/2 MILE AHEAD
LOCAL TRAFFIC ONLY

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

ROAD CLOSED
3/4 MILES AHEAD
LOCAL TRAFFIC ONLY

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

ROAD CLOSED
1 1/2 MILE AHEAD
LOCAL TRAFFIC ONLY

4 ROAD CLOSED
AHEAD
W20-3

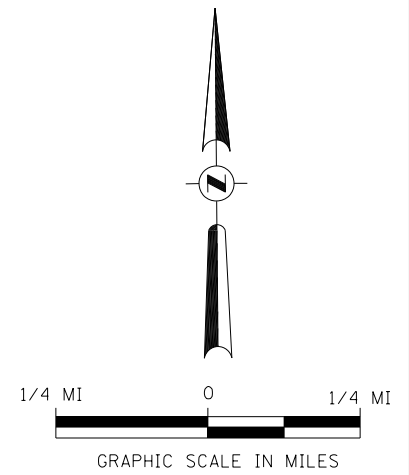
ROAD CLOSED
AHEAD

5 ROAD CLOSED
500 FT
W20-3

ROAD CLOSED
500 FT

6 TYPE III BARRICADES

SEE STANDARD BLR 21
AND SPECIAL PROVISIONS



R 4 E, 4th PM

FILE NAME =	USER NAME = SMierzw	DESIGNED -	REVISED -
V:\4217 - CH 14 over Mud Creek (Henry)\CADD\CADD Sheets\4217h001.dgn		DRAWN -	REVISED -
	PLOT SCALE = 2.0000' / in.	CHECKED -	REVISED -
\$MODELNAME\$	PLOT DATE = 7/30/2018	DATE -	REVISED -

**HENRY COUNTY
COUNTY HIGHWAY 14
OVER MUD CREEK**

TRAFFIC CONTROL PLAN

SCALE: NONE SHEET 1 OF 1 SHEETS STA. 16+50.00 TO STA. 23+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
238	16-00160-00-BR	HENRY	25	4
CONTRACT NO. 85672				
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NO. 3NH0574		

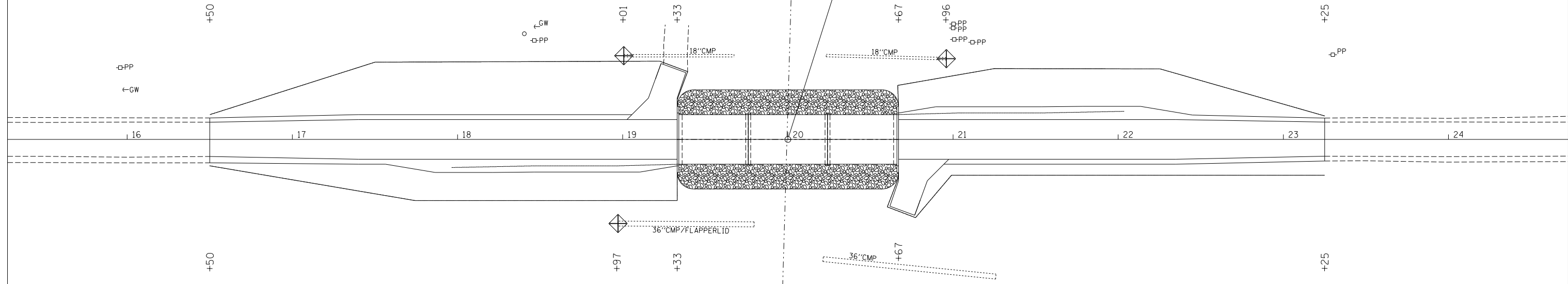
T 16 N, R 4 E, 4th PM
SECTION 26

CREEK

MUD




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SECTION 26

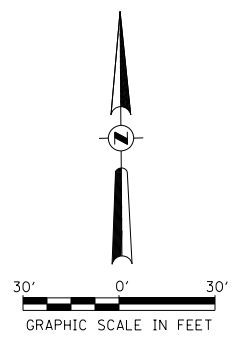
PROPOSED STRUCTURE
S.N. 037-3380



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

LEGEND

-  PERIMETER EROSION BARRIER
-  INLET AND PIPE PROTECTION
-  PROPOSED RIPRAP PLACEMENT

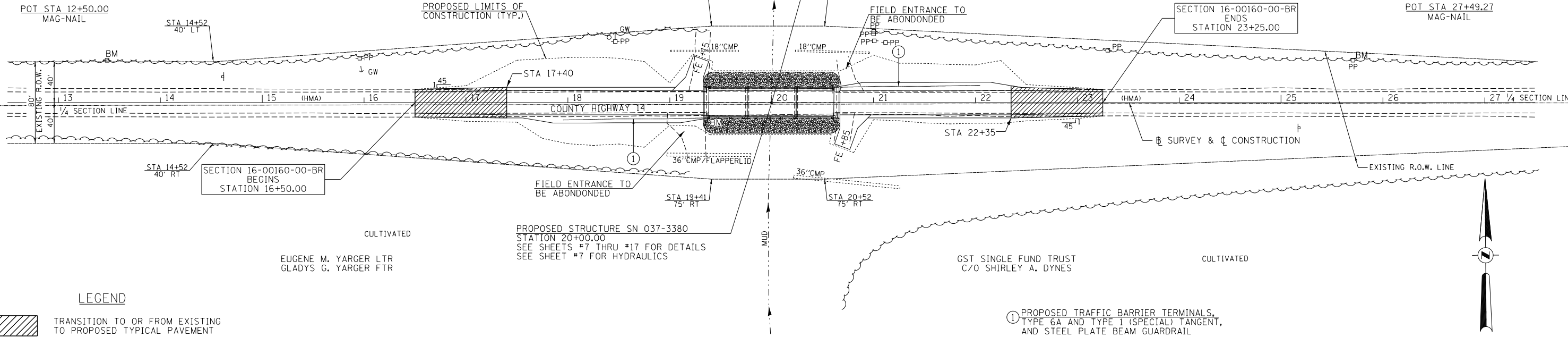
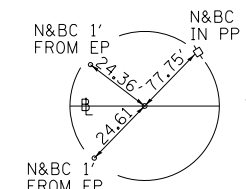
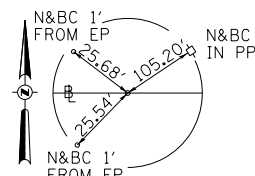


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\$MODELNAME\$	PLOT DATE = 7/30/2018	DRAWN -	REVISED -					238	16-00160-00-BR	HENRY	25	5
		CHECKED -	REVISED -		SCALE: 1"=30'	SHEET 1	OF 1	SHEETS	STA. 16+50.00 TO STA. 23+25.00	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO. 3NH0574
		DATE -	REVISED -									

T 16 N, R 4 E, 4TH PM
SECTION 26

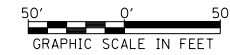
JAMES E. & LINDA E. CARTON

LARRY M. & GARY D. DYNES



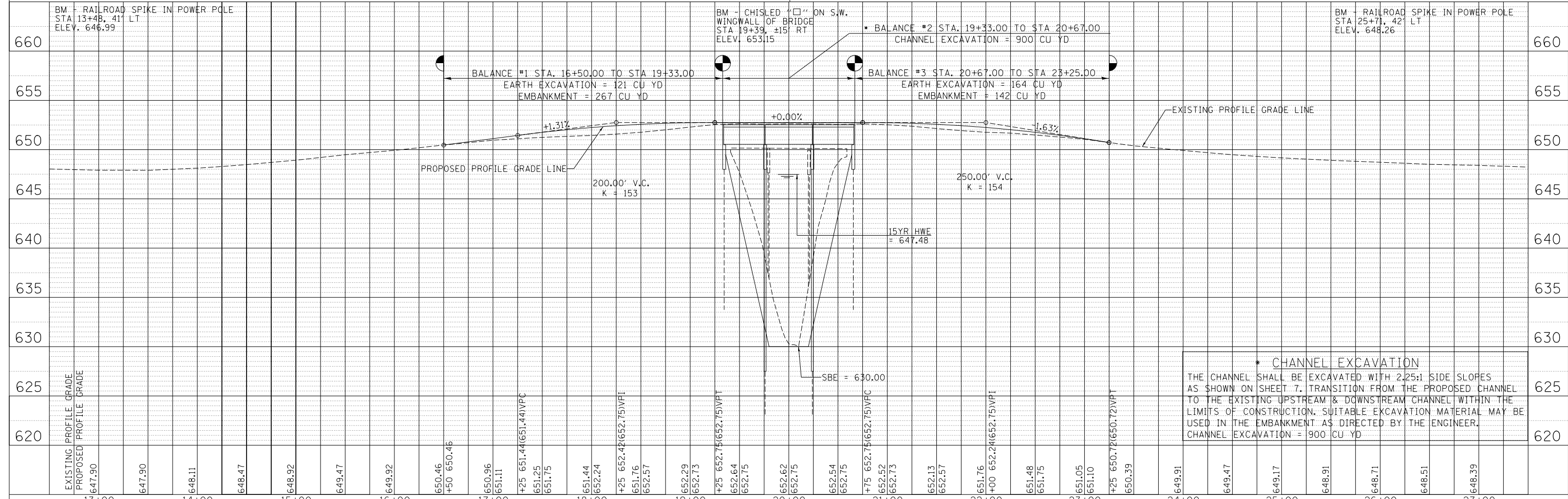
T 16 N, R 4 E, 4TH PM
SECTION 26

① PROPOSED TRAFFIC BARRIER TERMINALS, TYPE 6A AND TYPE 1 (SPECIAL) TANGENT, AND STEEL PLATE BEAM GUARDRAIL



DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	
CADD FILE NAME	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	
CADD FILE NAME	



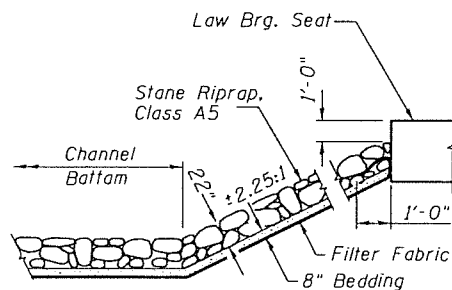
FILE NAME =	USER NAME = SMierzw	DESIGNED -	REVISED -	HENRY COUNTY COUNTY HIGHWAY 14 OVER MUD CREEK		PLAN AND PROFILE		F.A.S. RTE. 238	SECTION 16-00160-00-BR	COUNTY HENRY	TOTAL SHEETS 25	SHEET NO. 6
V:\4217 - CH 14 over Mud Creek (Henry)\CADD\CADD Sheets\4217p001.dgn		DRAWN -	REVISED -			SCALE: 1"=50'					CONTRACT NO. 85672	
PLOT SCALE = 100.0000' / in.		CHECKED -	REVISED -			SHEET NO. 1 OF 1 SHEETS		STA. 16+50.00 TO STA. 23+25.00		FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NO. 3NH05(574)
PLOT DATE = 7/30/2018		DATE -	REVISED -									

B.M.: RR Spike in Power Pole
Sta. 13+48, 41' Lt.
Elev. 646.99

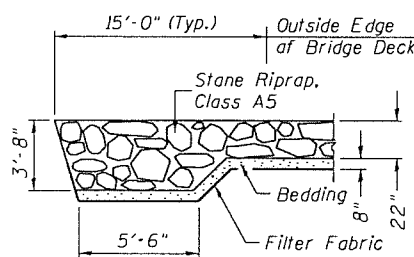
RR Spike in Power Pole
Sta. 25+71, 42' Lt.
Elev. 648.26

Existing Structure:
Three span PPC Deck Beam superstructure supported an exposed metal shell pile bent piers with reinforced concrete caps and pile bent spill through concrete abutments. The structure is ±123'-0" back to back of abutments, 26'-0" out to out deck, and is not skewed. Str. No. 037-3022

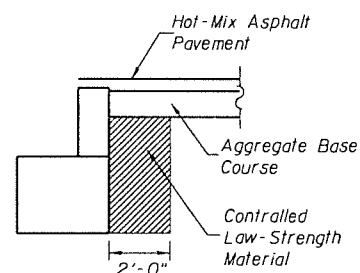
Salvage: None
Road to be closed to traffic during construction.



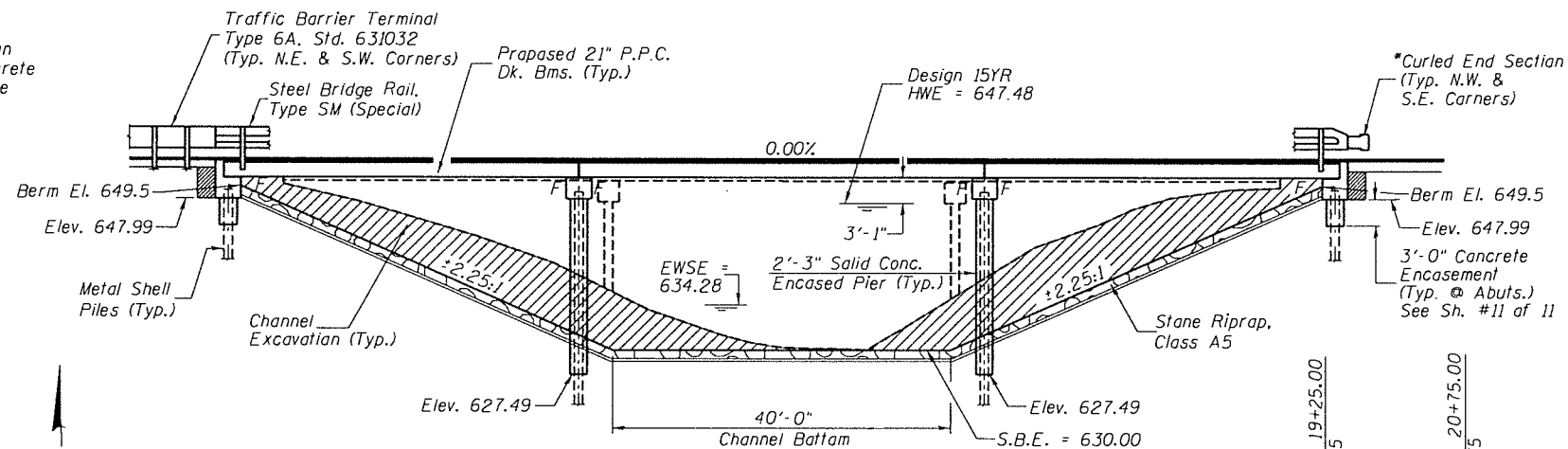
STONE RIPRAP DETAIL



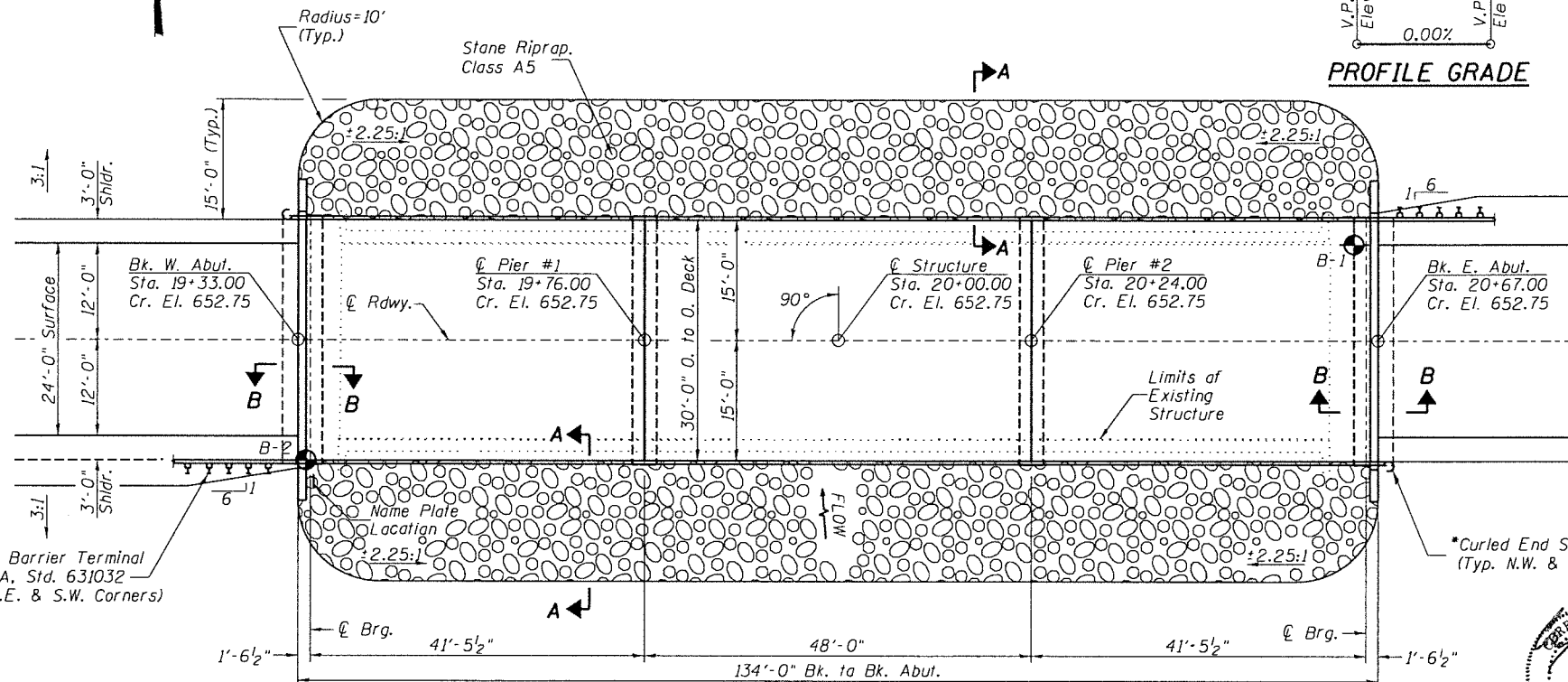
SECTION A-A



SECTION B-B



ELEVATION



PLAN

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 Special Provisions.
A Corrosion Inhibitor shall be used in the concrete for Precast Prestressed Concrete Deck Beams according to Article 1020.05(b)(10) of the Standard Specifications.
Reinforcement Bars shall conform to the requirements of ASTM A706 Grade 60. 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.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	CU YD	—	900	900
Stone Riprap, Class A5	TON	—	1,060	1,060
Filter Fabric	SO YD	—	900	900
① Removal of Existing Structures	EACH	—	—	1
Structure Excavation	CU YD	—	80	80
Cofferdam Excavation	CU YD	—	125	125
Cofferdam (Type 1) (Location-1) (Pier #1)	EACH	—	1	1
Cofferdam (Type 1) (Location-2) (Pier #2)	EACH	—	1	1
Concrete Structures	CU YD	—	131.7	131.7
Concrete Encasement	CU YD	—	5.1	5.1
Precast Prestressed Concrete Deck Beams (21" Depth)	SO FT	3,958	—	3,958
Reinforcement Bars	POUND	—	10,470	10,470
Furnishing Metal Shell Piles 14"X0.250"	FOOT	—	1,298	1,298
Driving Piles	FOOT	—	1,298	1,298
Test Pile Metal Shells	EACH	—	4	4
Name Plates	EACH	—	1	1
Waterproofing Membrane System	SO YD	447	—	447
Portland Cement Mortar Fairing Course	FOOT	400	—	400
Hot-Mix Asphalt Surface Course, Mix "C", N50	TON	49	—	49
① Controlled Low-Strength Material	CU YD	—	15.7	15.7
Terminal Marker - Direct Applied	EACH	2	—	2
Steel Bridge Rail, Type SM (Special)	FOOT	268	—	268

① See Special Provisions

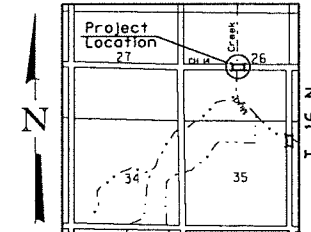
I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges. This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.



Lic. Exp. 11/30/18
R. 4 E. 4th P.M.

Greg T. ... 7/30/18
Illinois Structural No. 7999
Expires 11/30/2018

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



LOCATION SKETCH

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevations (ft.)					Item 113
W. Abut.	Pier 1	Pier 2	E. Abut.		
0100	648.0	626.2	626.2	648.0	8
0200	648.0	626.1	626.1	648.0	
Design	648.0	626.2	626.2	648.0	
Check	648.0	626.1	626.1	648.0	

DESIGN SPECIFICATIONS
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES
(PRECAST PRESTRESSED UNITS)
f'c = 6,000 p.s.i.
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)

MUD CREEK BUILT 20... BY HENRY COUNTY SEC. 16-00160-00-BR C.H. 14 STATION 20+00.00 F.A. PROJ. 3NH0574 STR. NO. 037-3380 LOADING HL-93

LOADING HL-93
(FIELD UNITS)
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (Rein.)
Allow 50#/sq. ft. for future wearing surface.

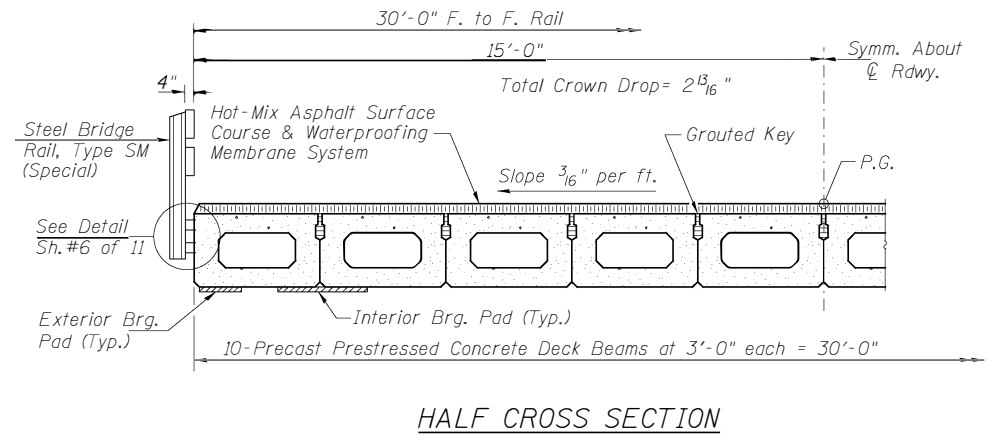
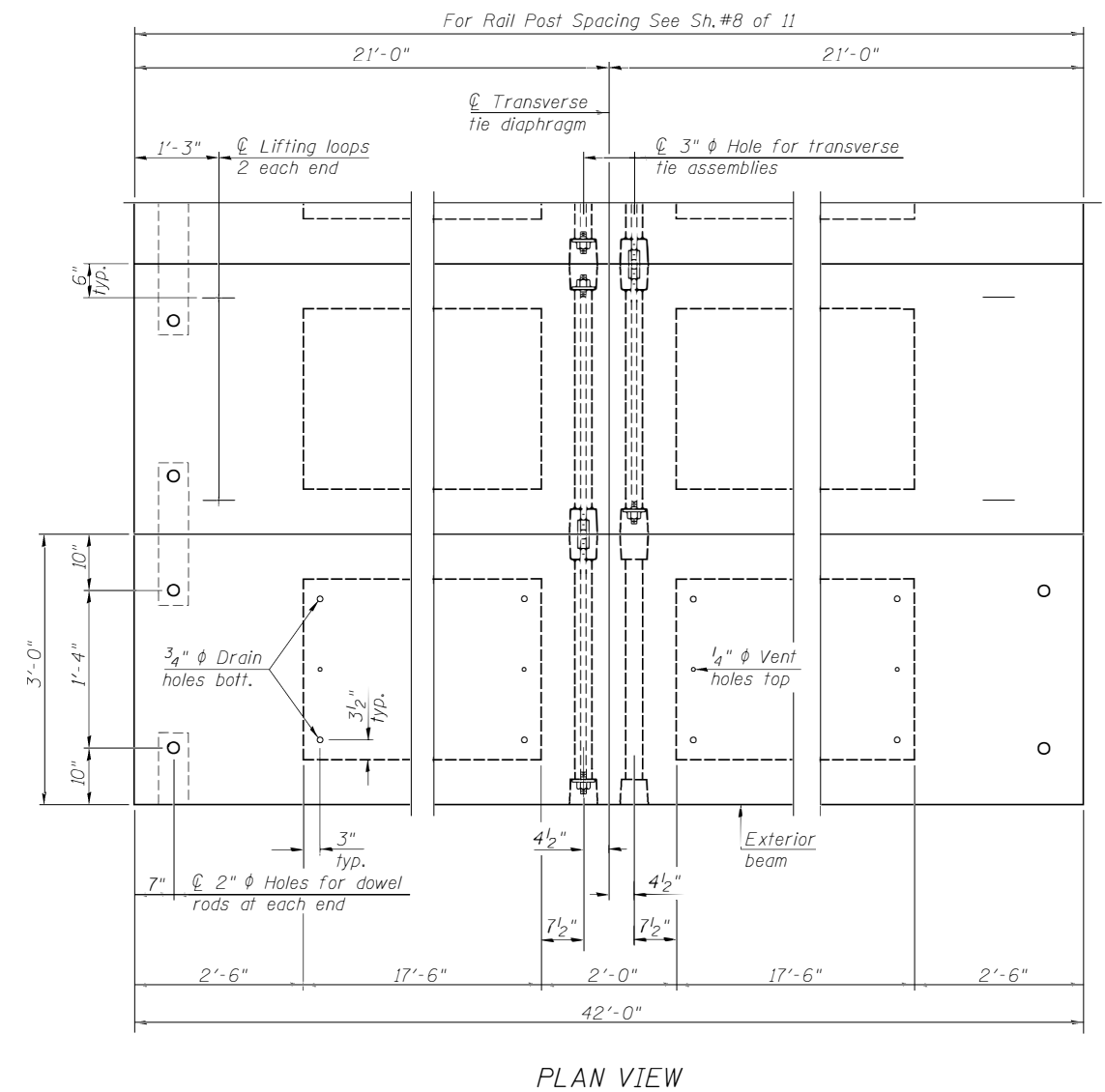
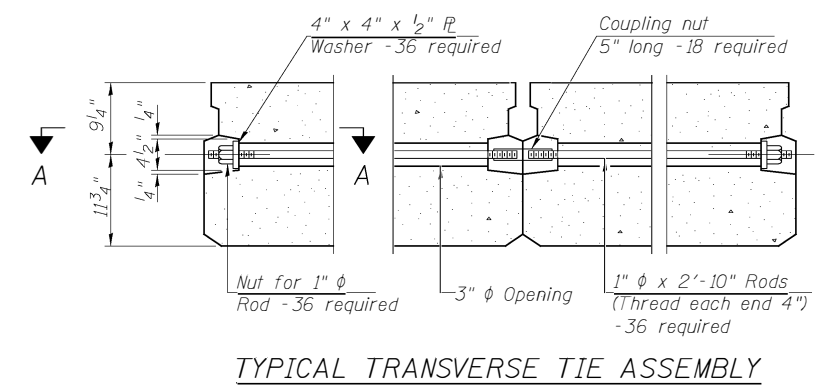
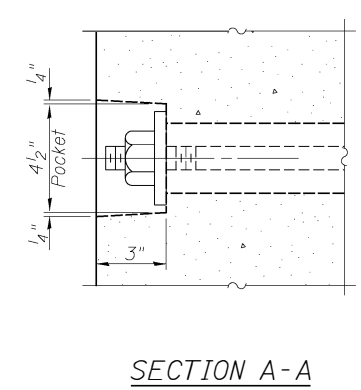
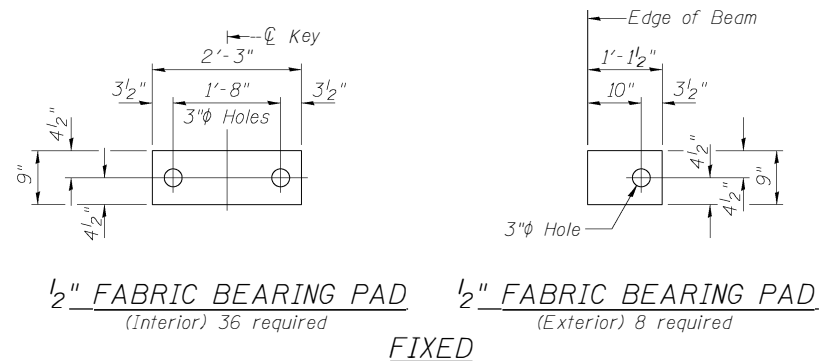
WATERWAY INFORMATION

Drainage Area = 44.35 Sq. Mi. Law Grade Elev. = 647.90 @ Sta. 13+50.00									
Flood	Freq. Yr.	C.F.S.	Opening Exist.	Sq. Ft. Prap.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prap.	Headwater El. Exist.	Headwater El. Prap.
Design	15	4,767	844	1,326	647.48	0.05	0.13	647.53	647.61
Base	100	7,470	1,114	1,691	651.01	0.36	0.16	651.37	651.17

Construction of this project complies with IDNR, Office of Water Resources Statewide Permit No. 2

GENERAL PLAN & ELEVATION HENRY COUNTY SECTION 16-00160-00-BR C.H. 14 OVER MUD CREEK

SHEET NO. 1	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	238	16-00160-00-BR	HENRY	23	7
S.N. 037-3380			CONTRACT NO. 85672		
FED. ROAD DIST. NO. 7 ILLINOIS			FEO. AID PROJECT NO. 3NH0574		



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Precast Prestressed Concrete Deck Beams (21" Depth)	SQ FT	2,520

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.

Reinforcement bars shall conform to ASTM A706, Grade 60.

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" diameter lifting pin shall be used to engage the lifting loops during handling.

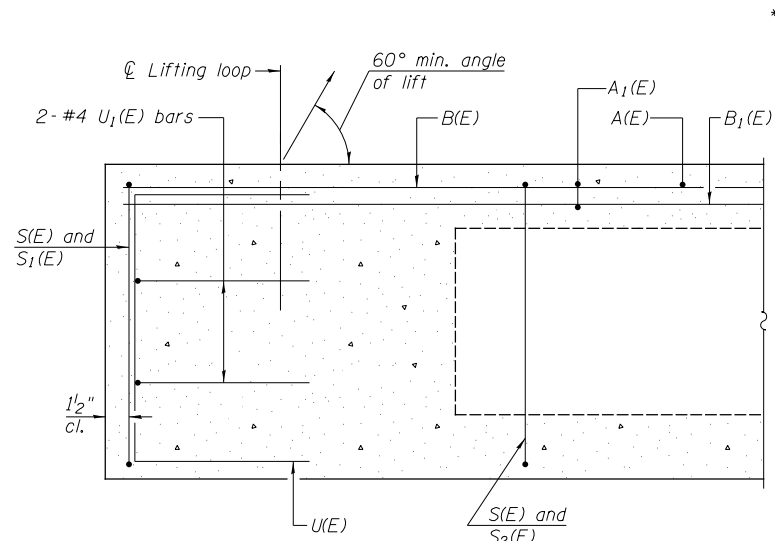
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

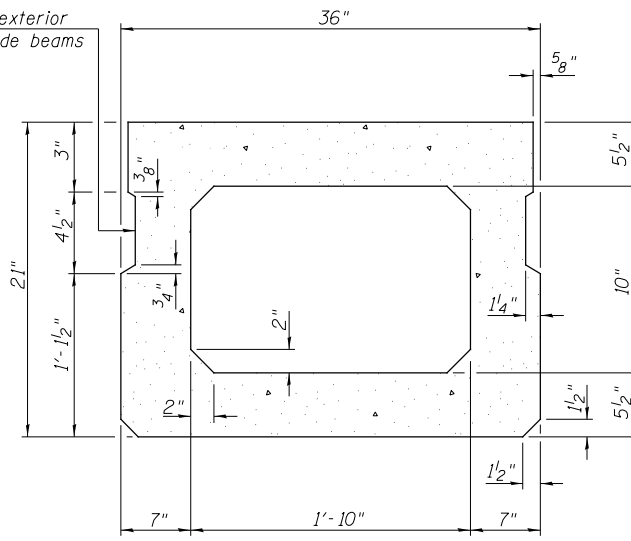
SUPERSTRUCTURE - SPANS 1 & 3
HENRY COUNTY
SECTION 16-00160-00-BR
C.H. 14 OVER MUD CREEK

SHEET NO. 2	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	238	16-00160-00-BR	HENRY	25	8
S.N. 037-3380			CONTRACT NO. 85672		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NO. 3NH0(574)			

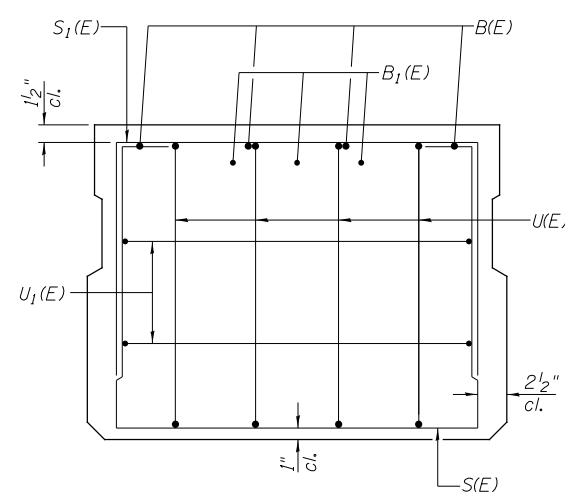


SECTION C-C

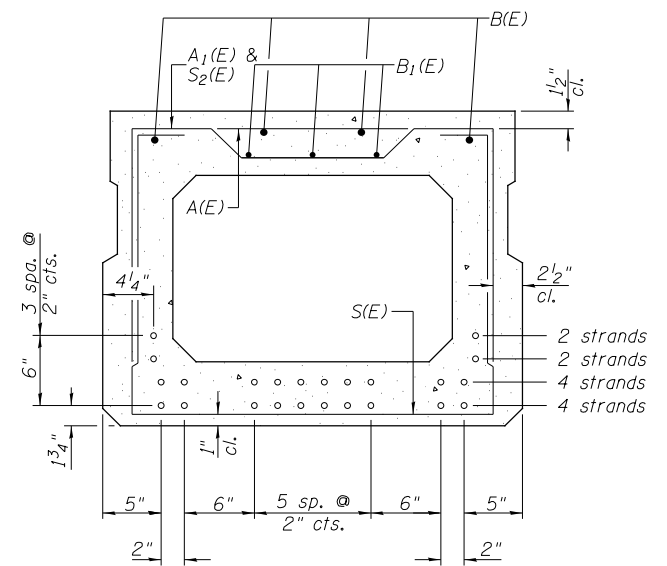
**Omit key on exterior face of outside beams



SECTION A-A
(Showing Dimensions)



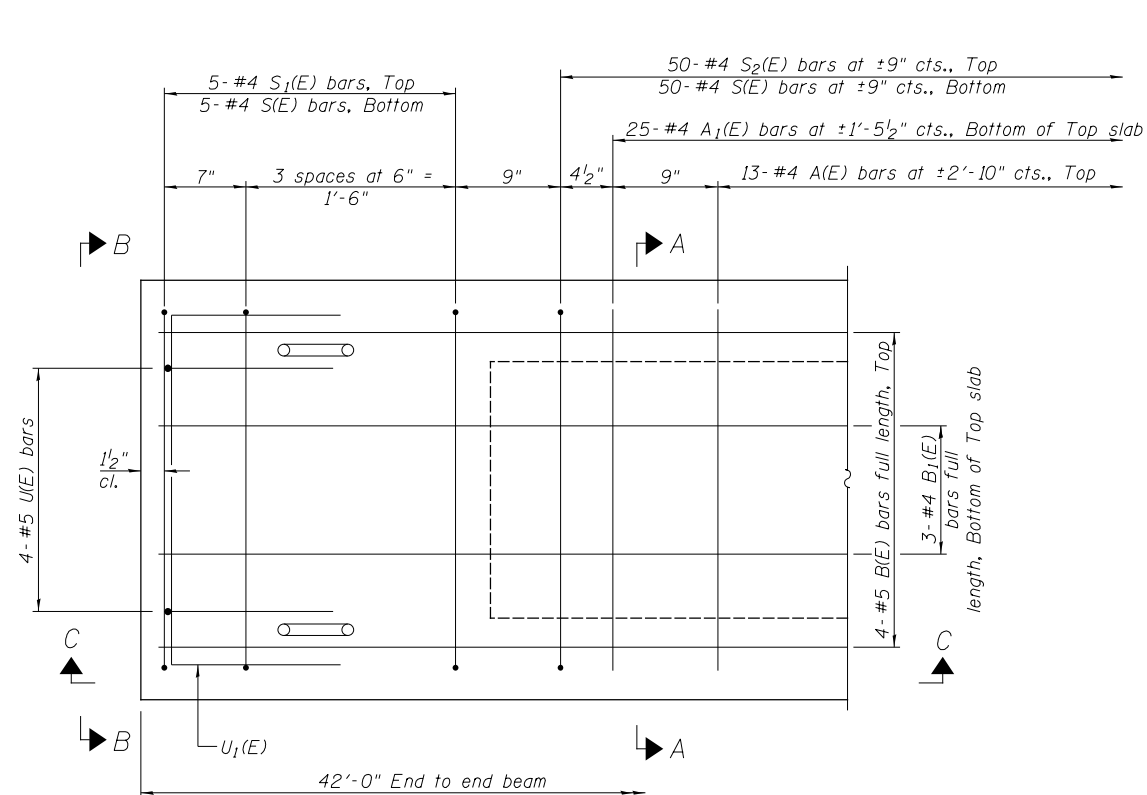
VIEW B-B



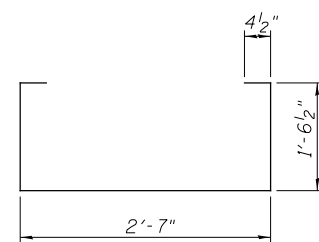
SECTION A-A

12-1/2" ϕ Strands Each Strand Stressed to 30,900 Lbs.
 4-Strands 1 3/4" up, 4-Strands 3 3/4" up,
 2-Strands 5 3/4" up, 2-Strands 7 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.

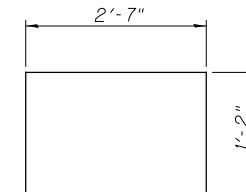
**Rail post anchor devices (Sheet 6 of 11) to be cast into exterior face of outside beams.



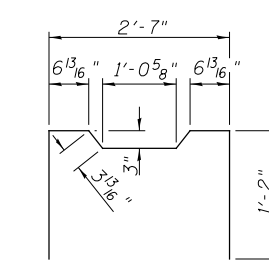
PLAN VIEW



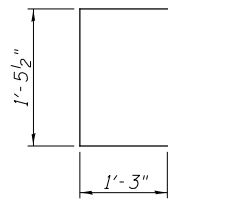
BAR S(E)



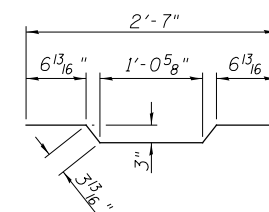
BAR S1(E)



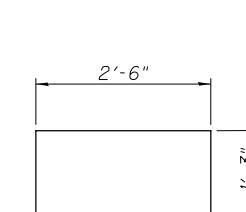
BAR S2(E)



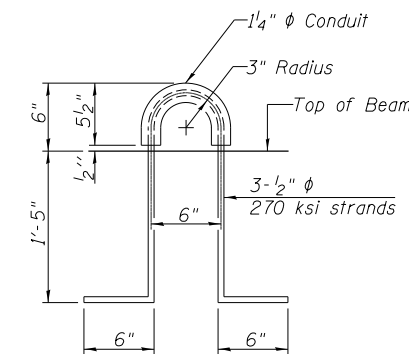
BAR U(E)



BAR A1(E)



BAR U1(E)



LIFTING LOOP DETAIL

BAR LIST-ONE BEAM ONLY
(For information only)

BAR	NO.	SIZE	LENGTH	SHAPE
A(E)	13	#4	2'-7"	—
A1(E)	25	#4	2'-10"	—
B(E)	4	#5	*4'-9"	—
B1(E)	3	#4	*4'-9"	—
S(E)	60	#4	6'-5"	U
S1(E)	10	#4	4'-11"	U
S2(E)	50	#4	5'-2"	U
U(E)	8	#5	4'-0"	U
U1(E)	4	#4	5'-0"	U

* Total Length, Lap as necessary

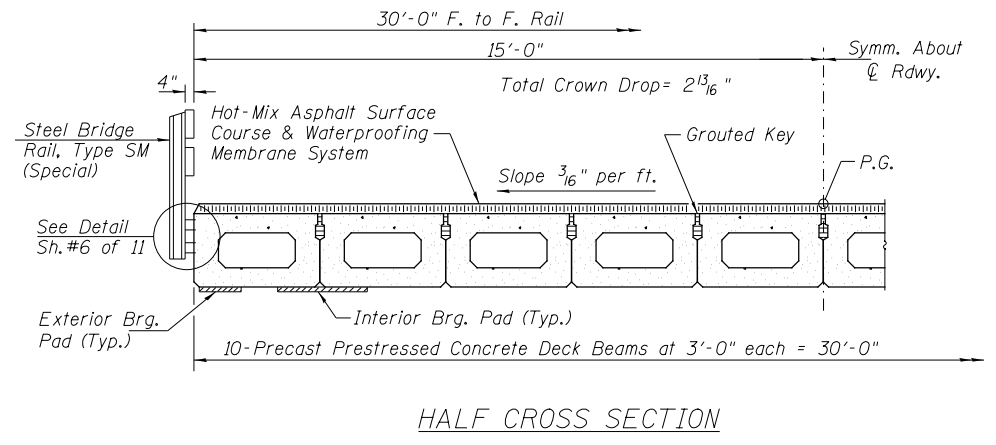
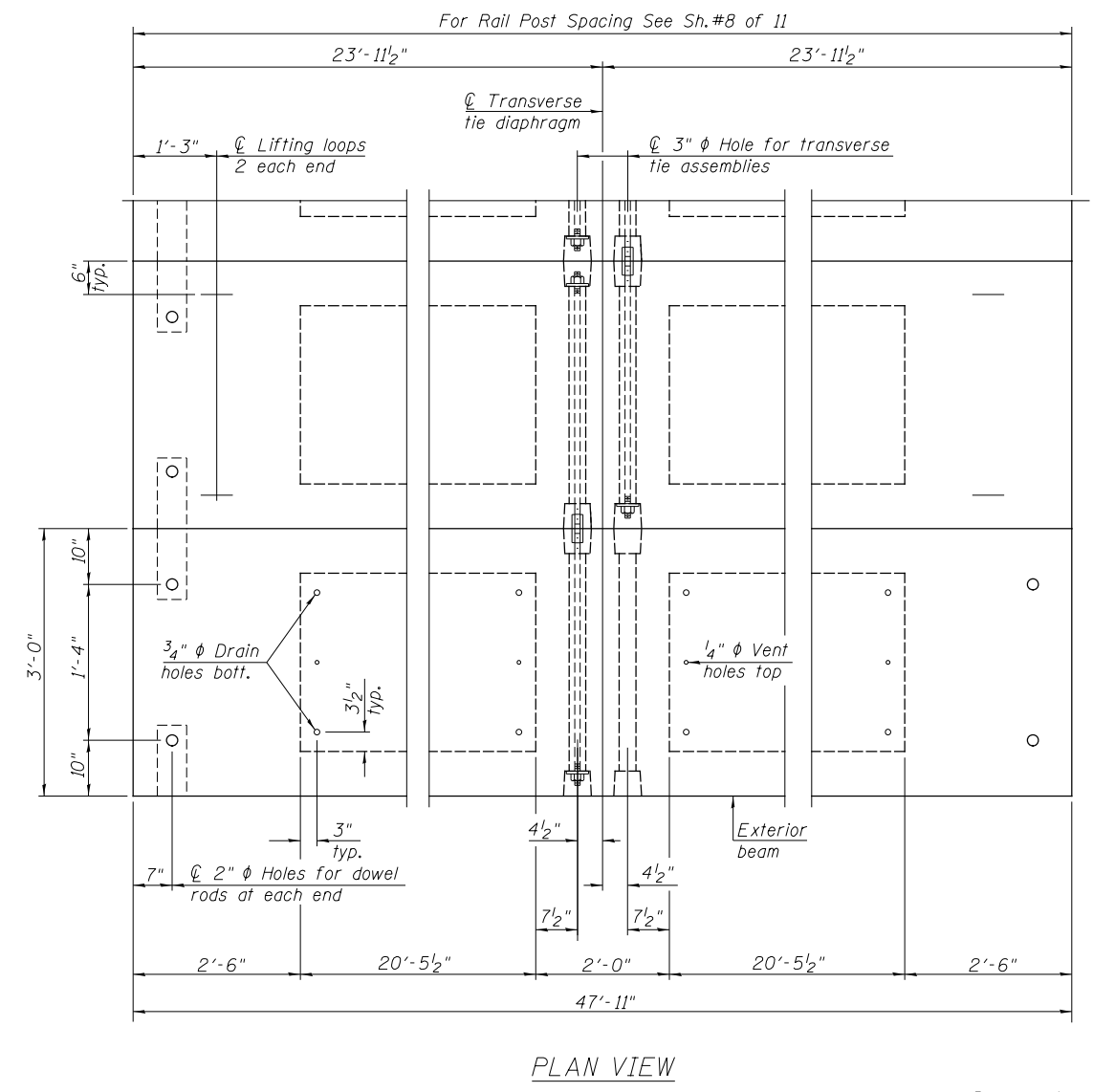
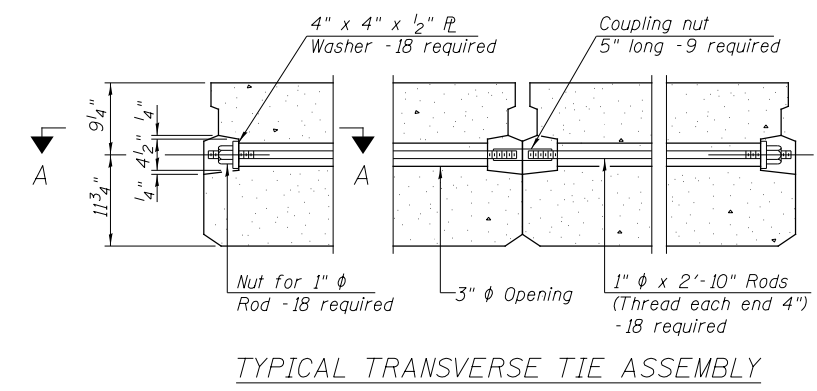
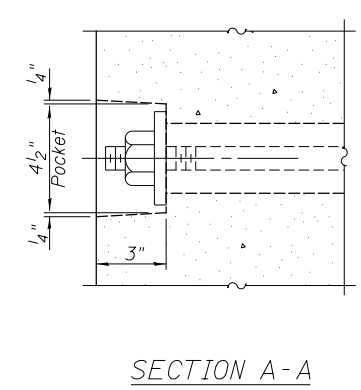
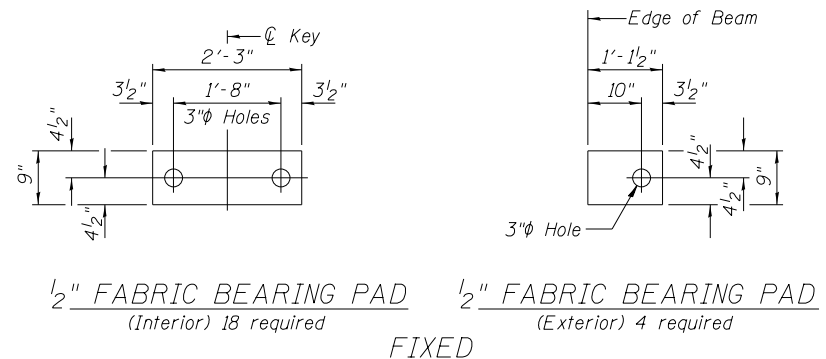
Note: See Sheet 2 of 11 for additional details and Bill of Material.

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.

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

SUPERSTRUCTURE DETAILS - SPANS 1 & 3
 HENRY COUNTY
 SECTION 16-00160-00-BR
 C.H. 14 OVER MUD CREEK

SHEET NO. 3 11 SHEETS	F.A.S. ROUTE 238	SECTION 16-00160-00-BR	COUNTY HENRY	TOTAL SHEETS 24	SHEET NO. 9
	S.N. 037-3380		CONTRACT NO. 85672		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. 3NH0(574)		



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Precast Prestressed Concrete Deck Beams (21" Depth)	SQ FT	1,438

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" ϕ 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.

Reinforcement bars shall conform to ASTM A706, Grade 60.

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" ϕ lifting pin shall be used to engage the lifting loops during handling.

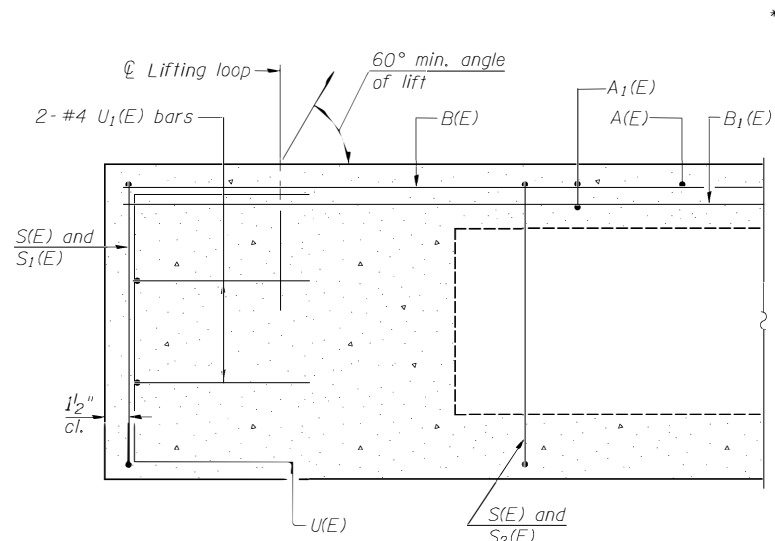
Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, $f'c$, shall be 6000 psi.

Compressive strength of prestressed concrete at release, $f'ci$, shall be 5000 psi.

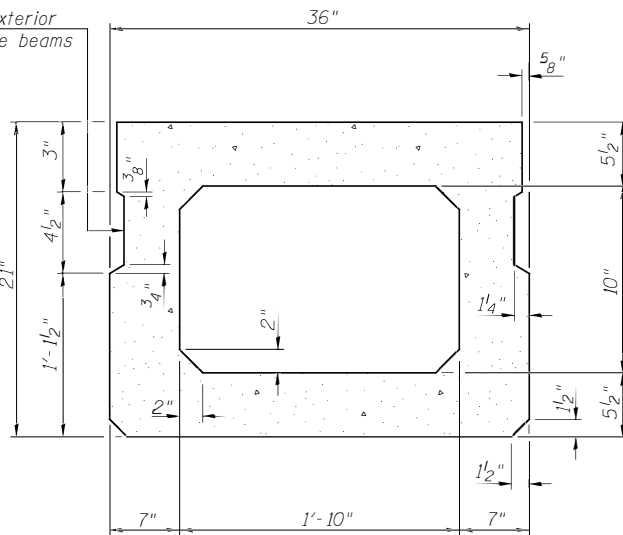
SUPERSTRUCTURE - SPAN 2
HENRY COUNTY
SECTION 16-00160-00-BR
C.H. 14 OVER MUD CREEK

SHEET NO. 4	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
11 SHEETS	238	16-00160-00-BR	HENRY	25	10
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 85672		
FED. AID PROJECT NO. 3NH0(574)					

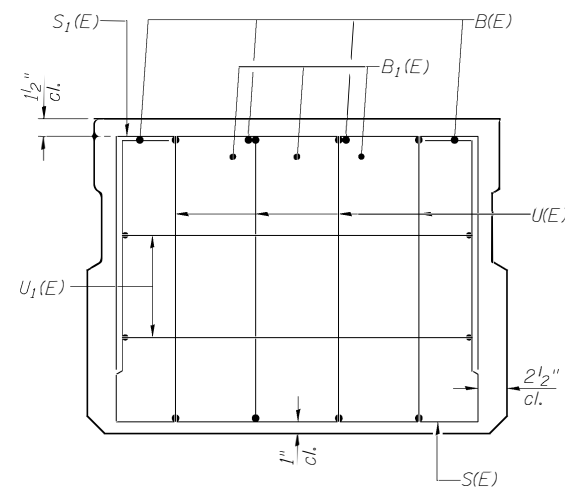


SECTION C-C

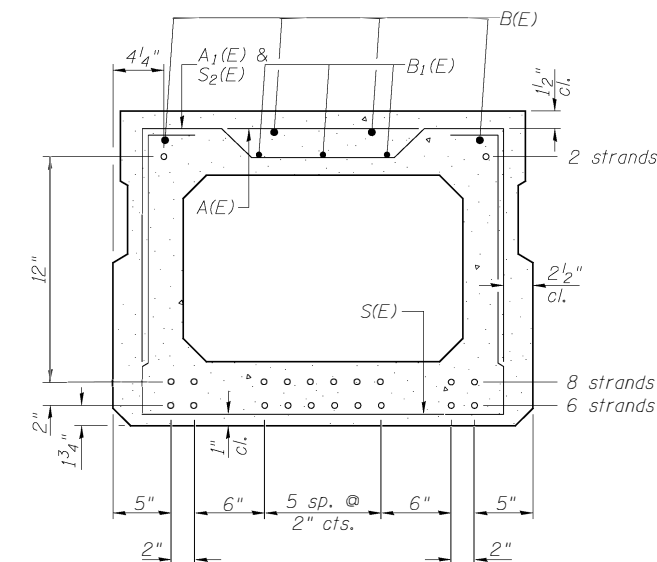
**Omit key on exterior face of outside beams



SECTION A-A
(Showing Dimensions)



VIEW B-B

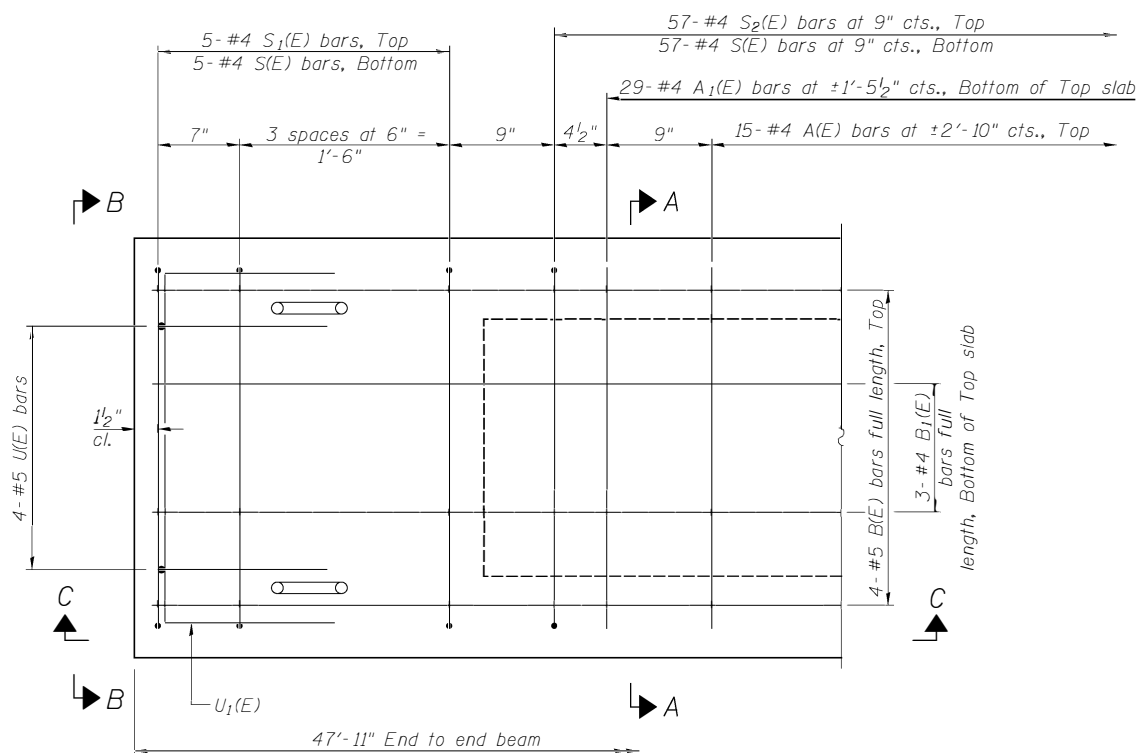


SECTION A-A

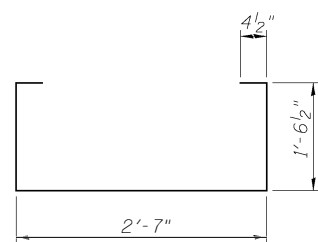
16-1/2" Strands Each Strand Stressed to 30,900 Lbs.
6-Strands 1 3/4" up, 8-Strands 3 3/4" up,
2-Strands 15 3/4" up

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

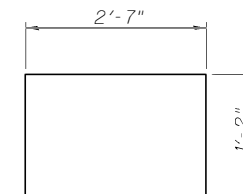
**Rail post anchor devices (Sheet 6 of 11) to be cast into exterior face of outside beams.



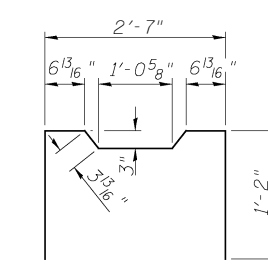
PLAN VIEW



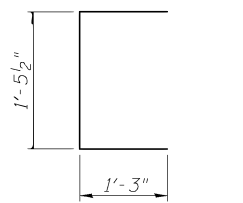
BAR S(E)



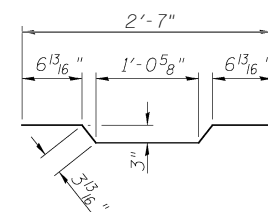
BAR S1(E)



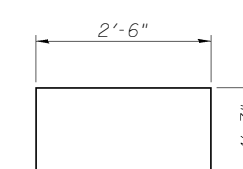
BAR S2(E)



BAR U(E)



BAR A1(E)



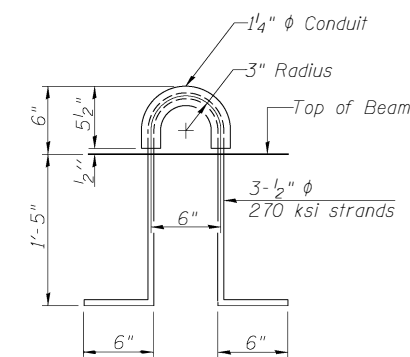
BAR U1(E)

BAR LIST-ONE BEAM ONLY
(For information only)

BAR	NO.	SIZE	LENGTH	SHAPE
A(E)	15	#4	2'-7"	—
A1(E)	29	#4	2'-10"	~
B(E)	4	#5	*47'-8"	—
B1(E)	3	#4	*47'-8"	—
S(E)	67	#4	6'-5"	□
S1(E)	10	#4	4'-11"	□
S2(E)	57	#4	5'-2"	□
U(E)	8	#5	4'-0"	□
U1(E)	4	#4	5'-0"	□

* Total Length, Lap as necessary

Note: See Sheet 4 of 11 for additional details and Bill of Material.



LIFTING LOOP DETAIL

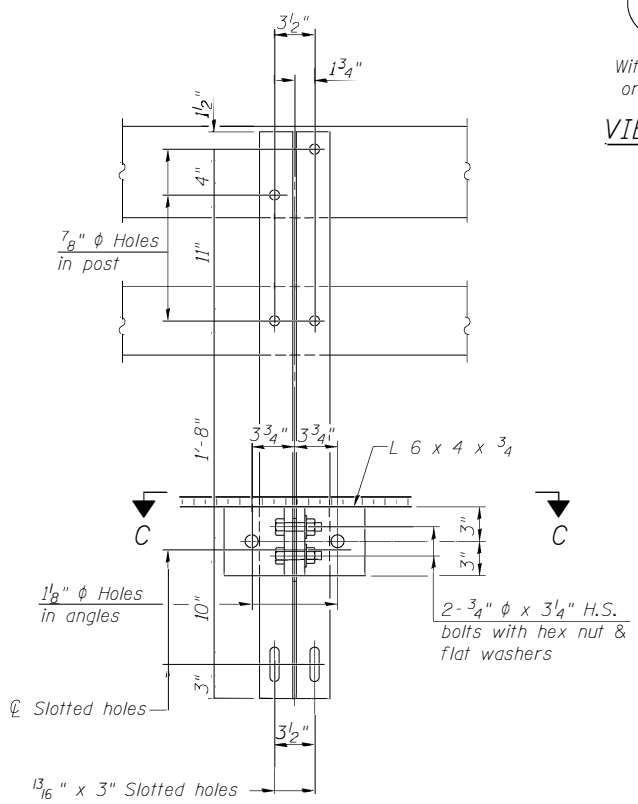
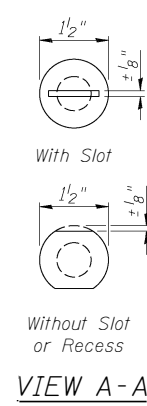
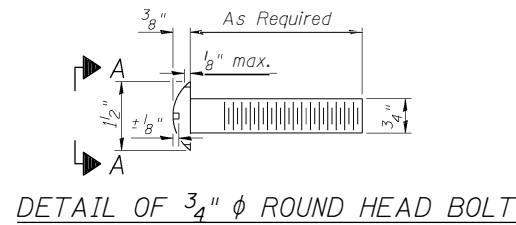
MINIMUM BAR LAP
#4 bar = 1'-11"
#5 bar = 2'-6"

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.

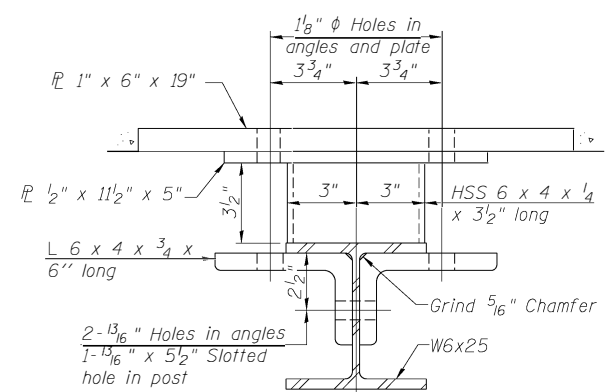
SUPERSTRUCTURE DETAILS - SPAN 2
HENRY COUNTY
SECTION 16-00160-00-BR
C.H. 14 OVER MUD CREEK

SHEET NO. 5 11 SHEETS	F.A.S. ROUTE 238	SECTION 16-00160-00-BR	COUNTY HENRY	TOTAL SHEETS 25	SHEET NO. 11
	S.N. 037-3380		CONTRACT NO. 85672		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. 3NH0574		

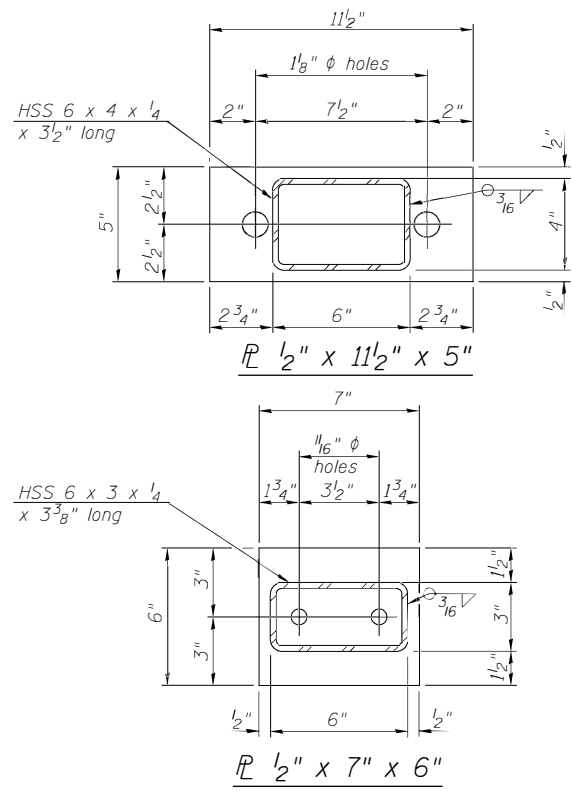
FOR RAIL POST SPACING SEE SH.#8 OF 11



SECTION B-B

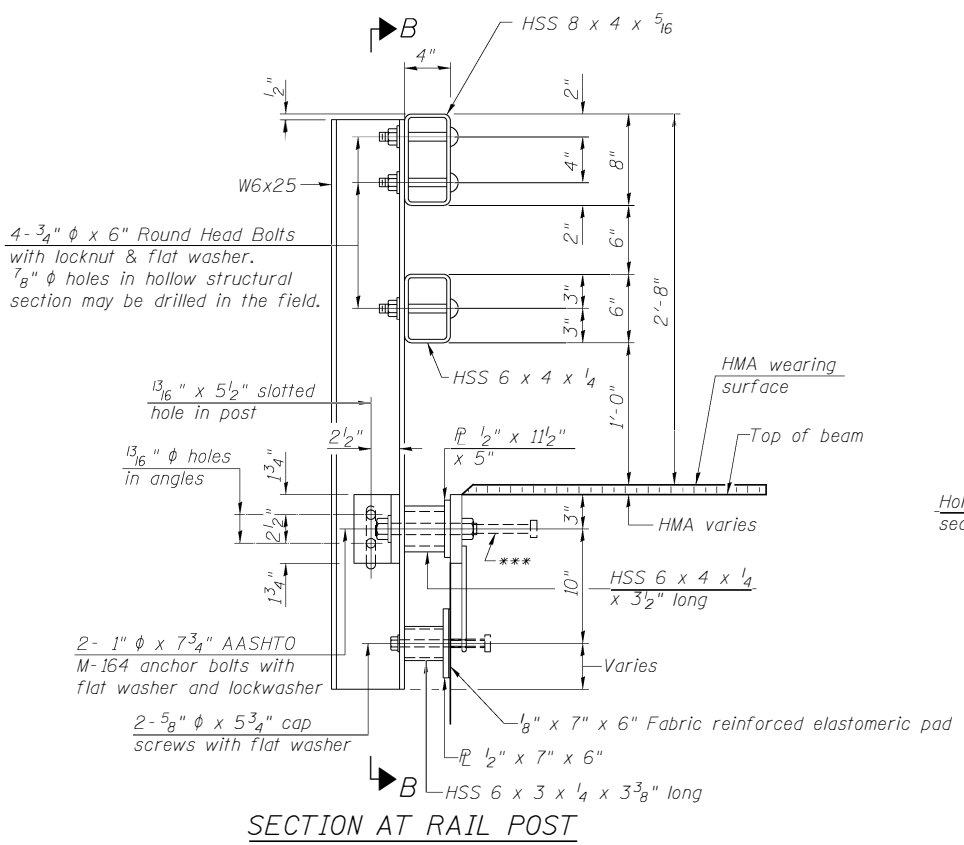


SECTION C-C

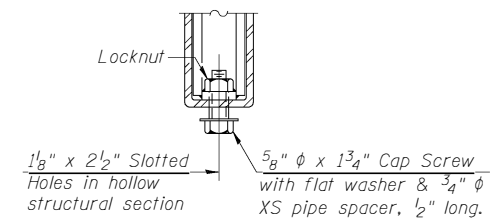


ANCHOR DEVICE

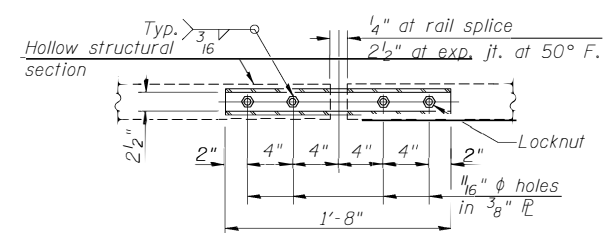
*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.



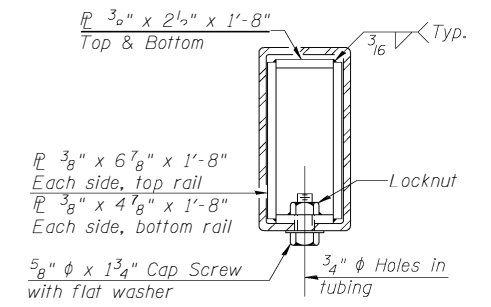
SECTION AT RAIL POST



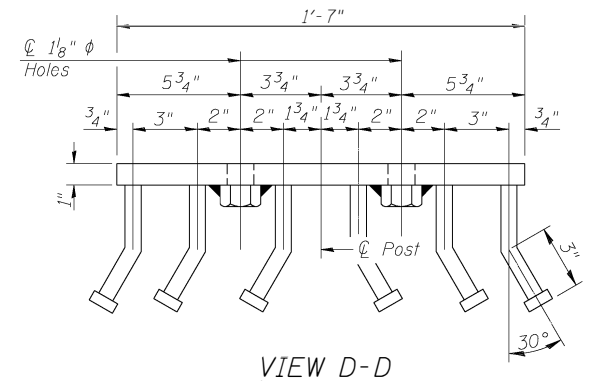
RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE AT TYPICAL



SECTION AT RAIL SPLICE



VIEW D-D

Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Bridge Rail, Type SM (Special).
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.
 *** 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.

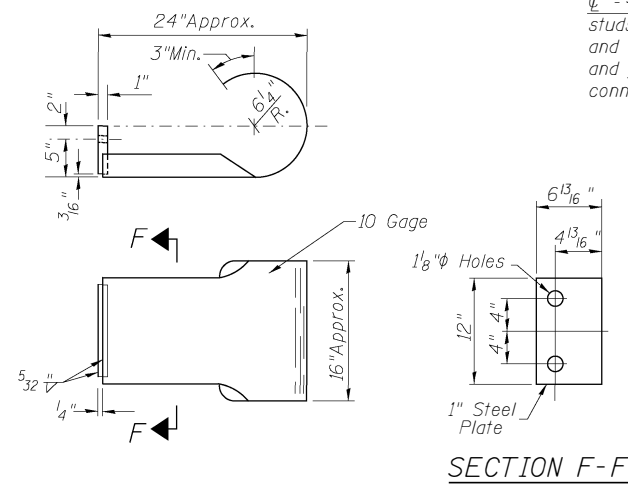
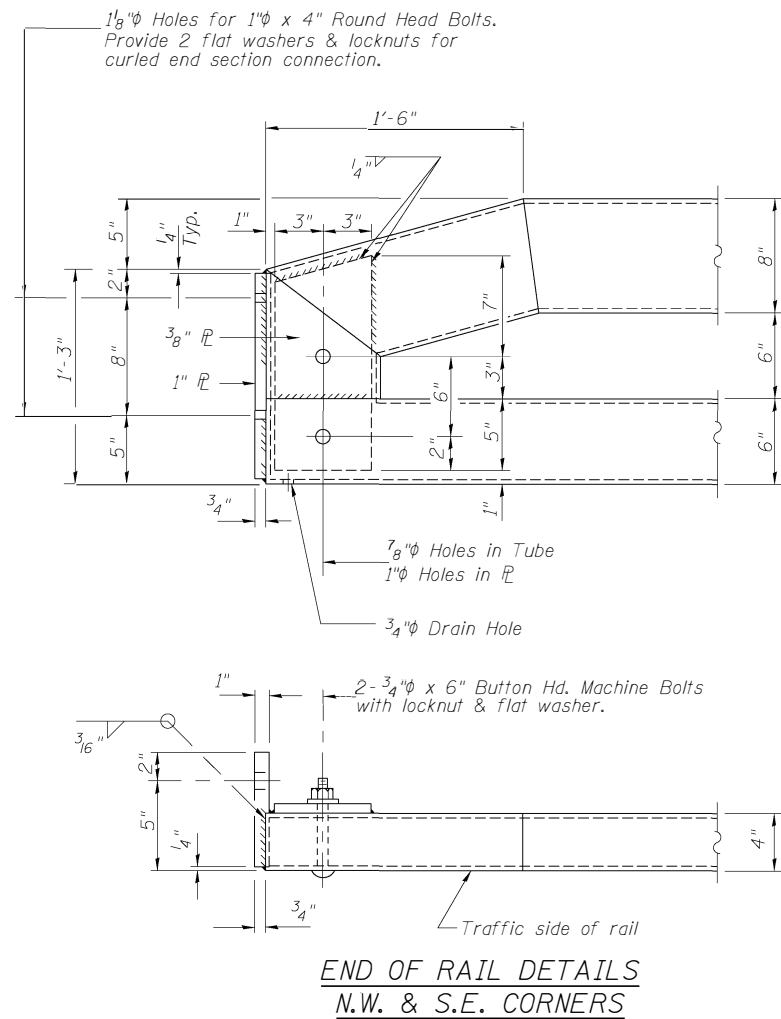
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Steel Bridge Rail, Type SM (Special)	FOOT	268

STEEL BRIDGE RAIL, TYPE SM (SPECIAL)
 HENRY COUNTY
 SECTION 16-00160-00-BR
 C.H. 14 OVER MUD CREEK

SHEET NO. 6	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	238	16-00160-00-BR	HENRY	25	12
11 SHEETS	S.N. 037-3380		CONTRACT NO. 85672		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO. 3NH0574		

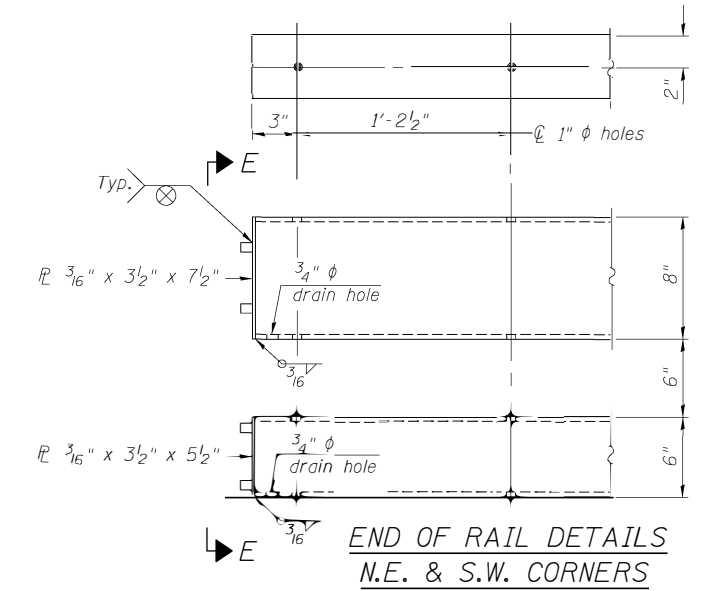
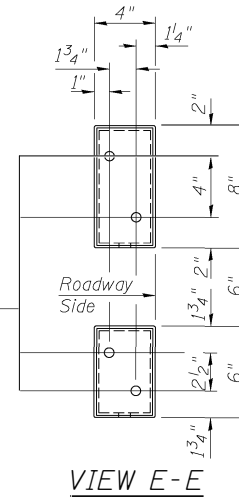
(Sheet 1 of 2)



CURLED END SECTION

(2 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. N.W. & S.E. Corners)

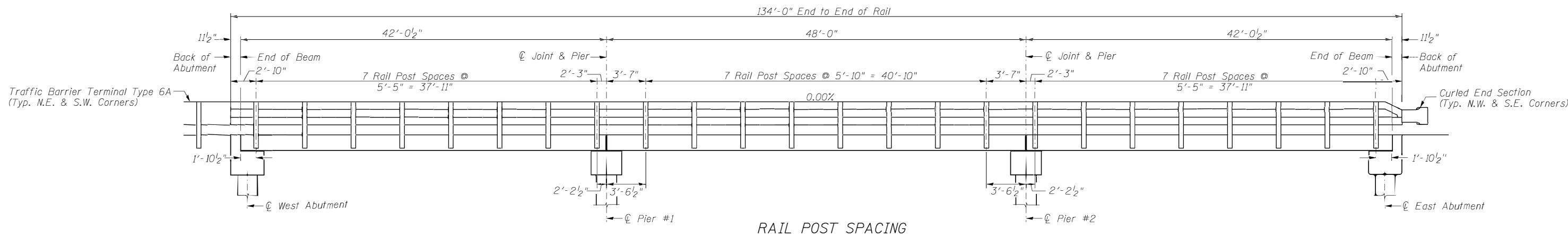
ϕ - 5/8" reduced base welded studs. Provide 4- 5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032



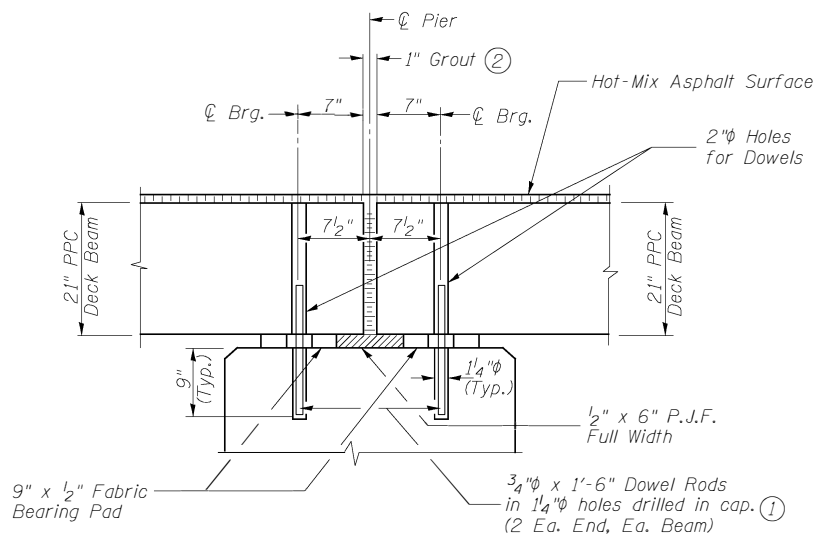
**STEEL BRIDGE RAIL,
TYPE SM (SPECIAL)
HENRY COUNTY
SECTION 16-00160-00-BR
C.H. 14 OVER MUD CREEK**

(Sheet 2 of 2)

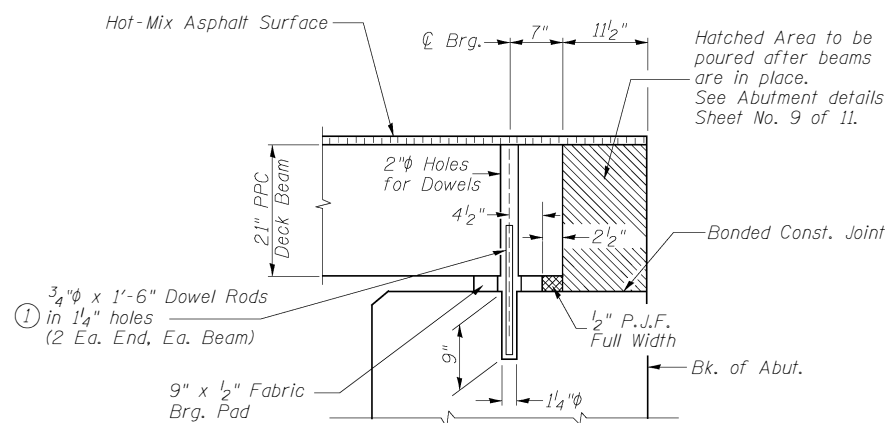
SHEET NO. 7	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	238	16-00160-00-BR	HENRY	25	13
11 SHEETS	S.N. 037-3380		CONTRACT NO. 85672		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT NO. 3NH0(574)		



RAIL POST SPACING

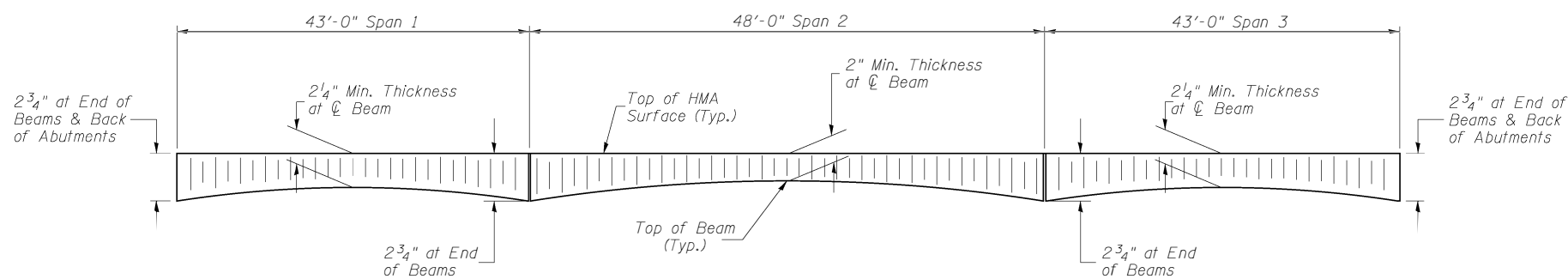


SECTION THRU PIERS



SECTION THRU ABUTMENTS

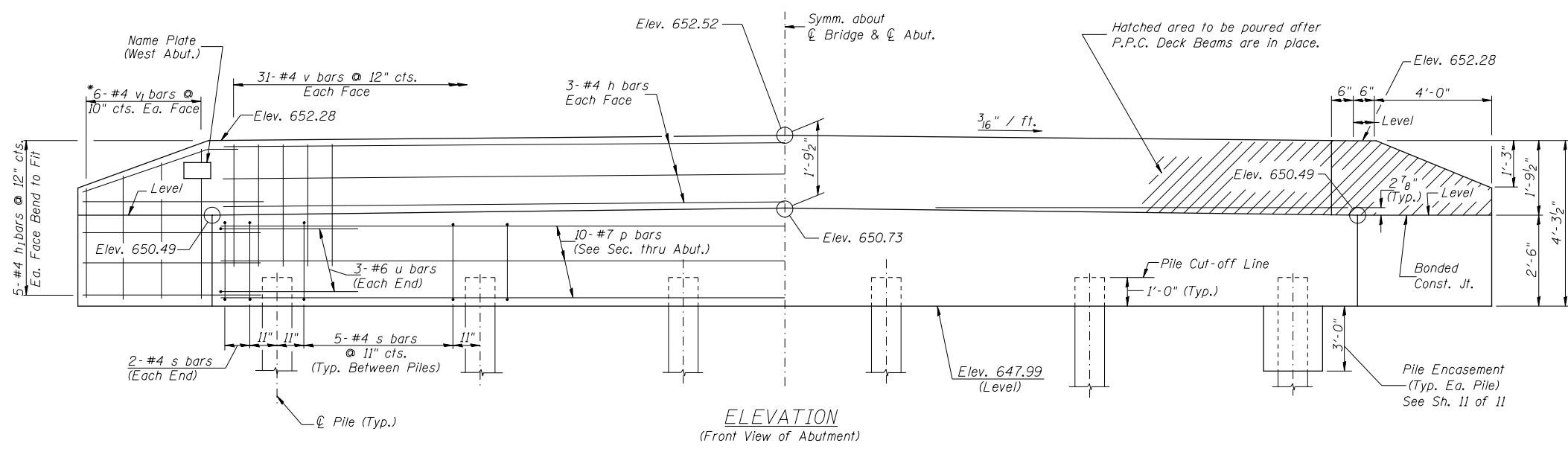
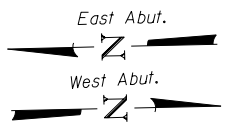
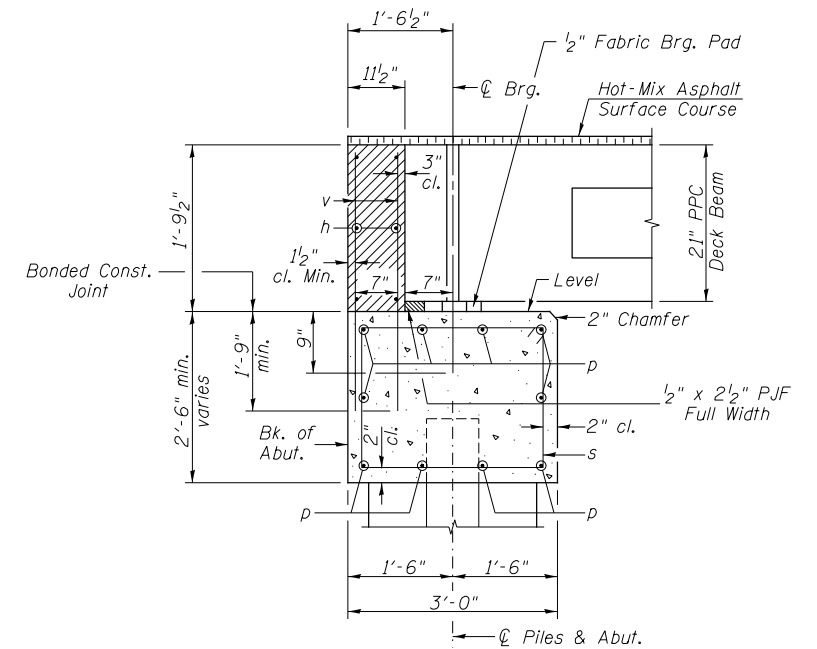
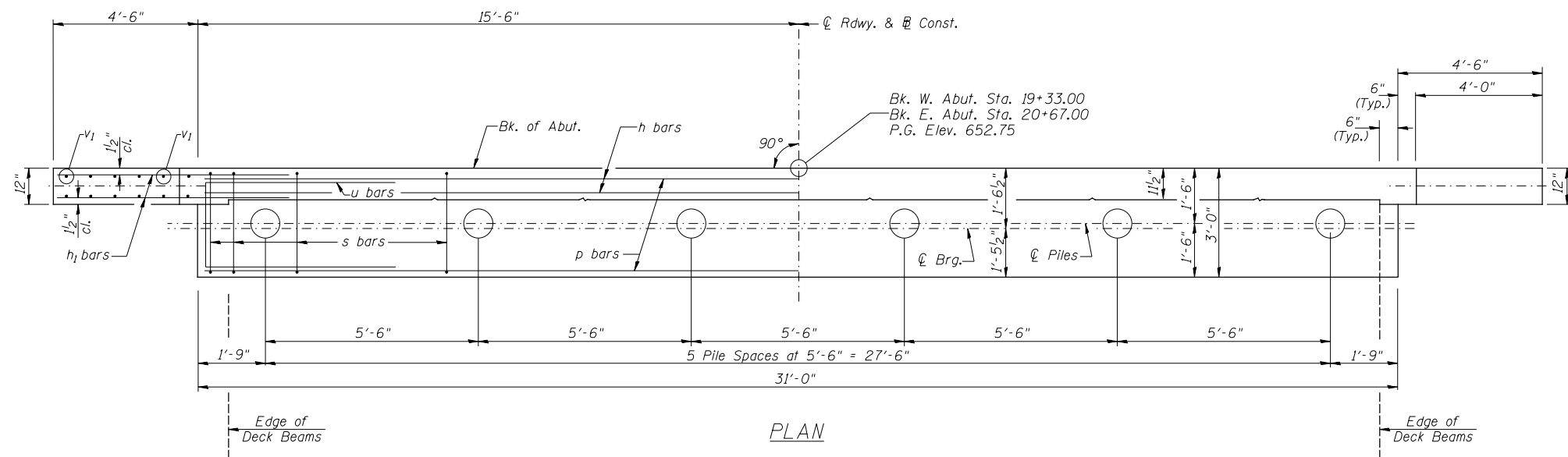
- ① Dowel Rods to be grouted after beams are in place and allowed to cure (Min. 24 hr.) prior to grouting the shear keys.
- ② 1" Joint shall be packed with nonshrink grout in accordance with Standard Specifications. 1" Dimension may vary plus or minus to accommodate tolerance in beam lengths.



HOT-MIX ASPHALT SURFACE PROFILE
Includes Waterproofing Membrane System

RAIL POST SPACING AND
SUPERSTRUCTURE DETAILS
HENRY COUNTY
SECTION 16-00160-00-BR
C.H. 14 OVER MUD CREEK

SHEET NO. 8 11 SHEETS	F.A.S. ROUTE 238	SECTION 16-00160-00-BR	COUNTY HENRY	TOTAL SHEETS 25	SHEET NO. 14
	S.N. 037-3380		CONTRACT NO. 85672		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. 3NH0(574)		

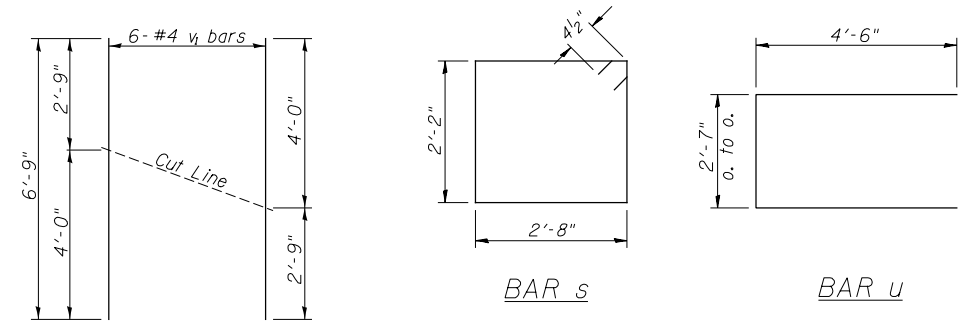


**TWO ABUTMENTS
BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
h	12	#4	30'-9"	—
h ₁	40	#4	6'-6"	—
p	20	#7	30'-9"	—
s	58	#4	10'-5"	□
u	12	#6	11'-7"	□
v	124	#4	3'-6"	—
v ₁	24	#4	6'-9"	—
Concrete Structures			CU YD	23.9
Reinforcement Bars			POUND	2,690
Structure Excavation			CU YD	80
Name Plates			EACH	1
Furnishing Metal Shell Piles 14"x0.250"			FOOT	350
Driving Piles			FOOT	350
Test Pile Metal Shells			EACH	2
Concrete Encasement			CU YD	5.1

DESIGN STRESSES
 $f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i.

PILE DATA
 Type & Size: Metal Shell 14"x0.250" walls
 Nominal Required Bearing: 165 kips
 Factored Resistance Available: 91 kips
 Est. Length: 35' West Abutment
 35' East Abutment
 No. Req'd.: 12 (Includes 1 Test Pile at Each Abut.)



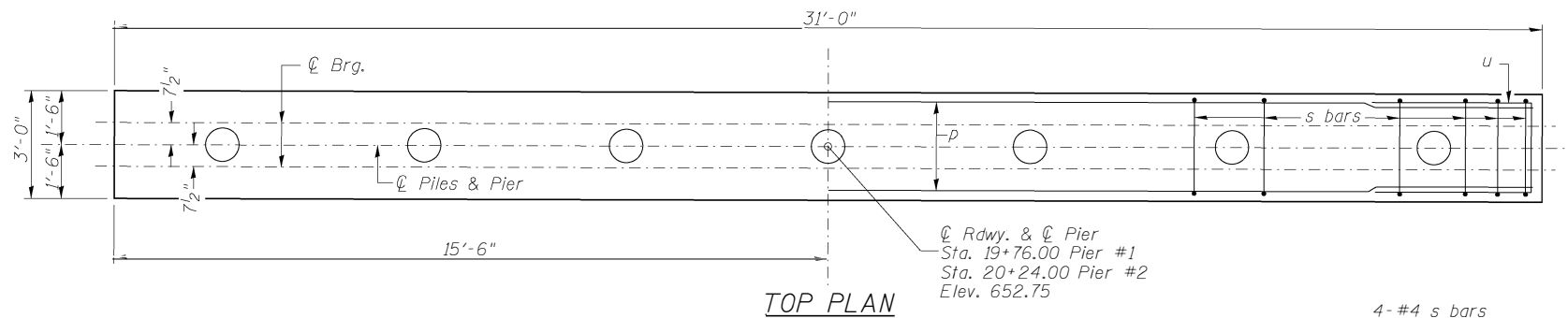
- NOTES**
- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
 - Reinforcement bars shall conform to ASTM A706 Grade 60.

**ABUTMENTS
HENRY COUNTY
SECTION 16-00160-00-BR
C.H. 14 OVER MUD CREEK**

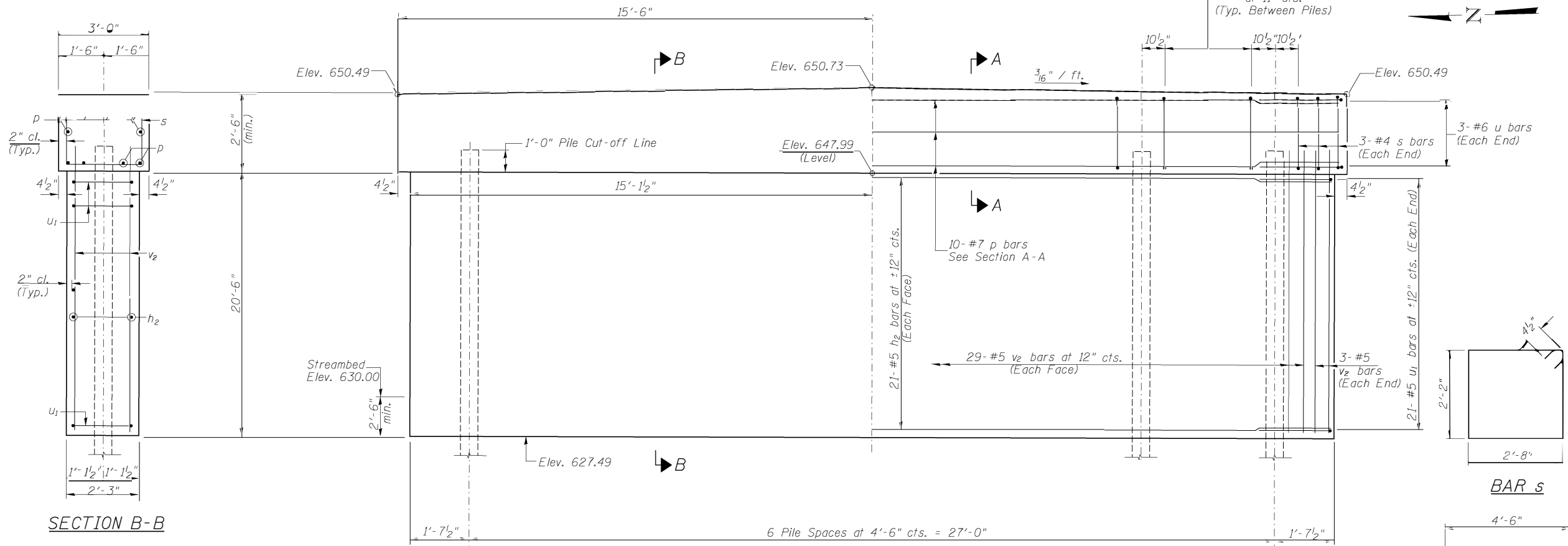
SHEET NO. 9 11 SHEETS	F.A.S. ROUTE 238	SECTION 16-00160-00-BR	COUNTY HENRY	TOTAL SHEETS 24	SHEET NO. 15
	S.N. 037-3380		CONTRACT NO. 85672		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NO. 3NH0(574)			

Notes:

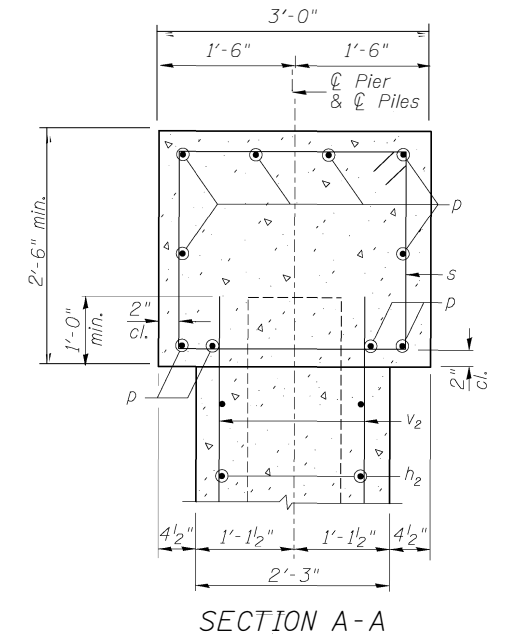
All edges shall have standard $\frac{3}{4}$ " chamfer.
See Sheet 11 of 11 for Pile Details.



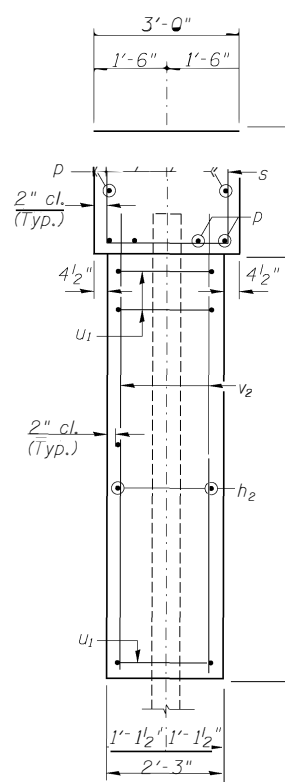
TOP PLAN



ELEVATION
(Looking Upstation)



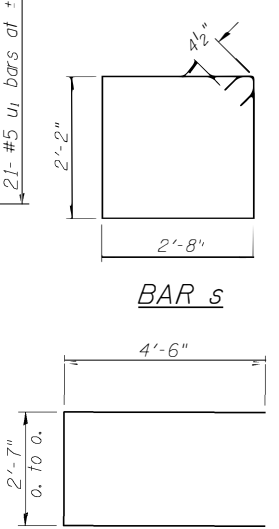
SECTION A-A



SECTION B-B

TWO PIERS
BILL OF MATERIAL

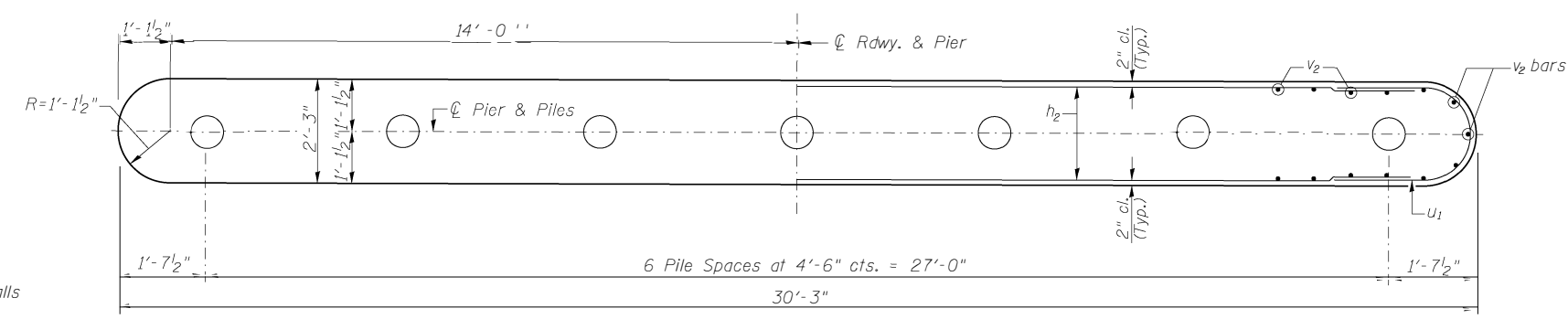
BAR	NO.	SIZE	LENGTH	SHAPE
h ₂	84	#5	27'-9"	—
p	20	#7	30'-9"	—
s	60	#4	10'-5"	□
u	12	#6	11'-7"	⊔
u ₁	84	#5	7'-0"	⊔
v ₂	128	#5	21'-4"	—
Concrete Structures		CU YD	107.8	
Reinforcement Bars		POUND	7,780	
Cofferdam Excavation		CU YD	125	
Furnishing Metal Shell Piles 14"x0.250"		FOOT	948	
Driving Piles		FOOT	948	
Test Pile Metal Shells		EACH	2	
Cofferdam (Type 1) (Location-1)		EACH	1	
Cofferdam (Type 1) (Location-2)		EACH	1	



BAR s

BAR u

BAR u₁



FOOTING PLAN

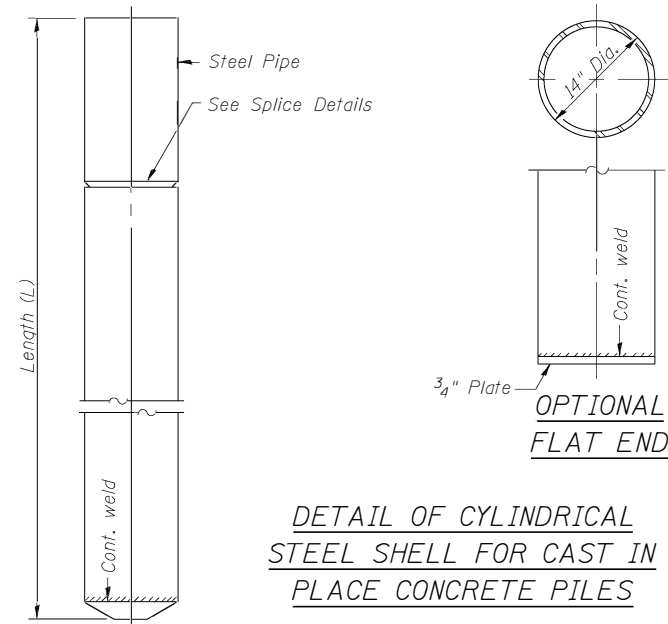
PILE DATA

Type & Size: Metal Shell 14"x0.250" walls
Nominal Required Bearing: 340 kips
Factored Resistance Available: 187 kips
Est. Length: 73' Pier #1
85' Pier #2
No. Req'd.: 14 (Includes 1 Test Pile at Each Pier)

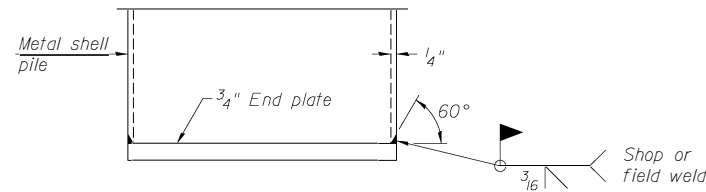
PIERS
HENRY COUNTY
SECTION 16-00160-00-BR
C.H. 14 OVER MUD CREEK

SHEET NO.	F.A.S. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
10	238	16-00160-00-BR	HENRY	25	16
11 SHEETS		S.N. 037-3380	CONTRACT NO. 85672		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. 3NH0(574)		

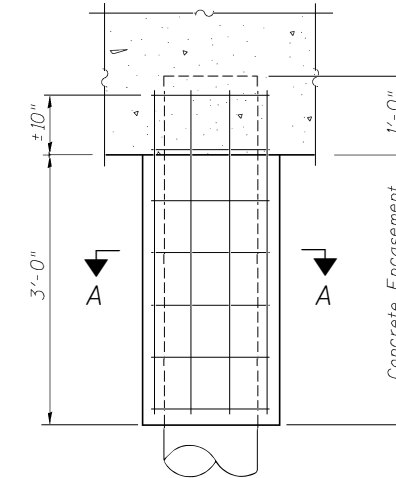
Notes: Driving and bearing ends of pipe shall be cut square. The thickness of the shell shall be 0.25 inches with a tolerance of 5%. The shell shall be according to Article 1006.05(a) of the Standard Specifications, and shall be ASTM A252 Grade 3.



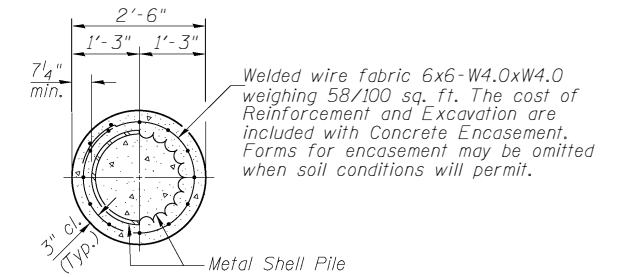
DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES



END PLATE ATTACHMENT

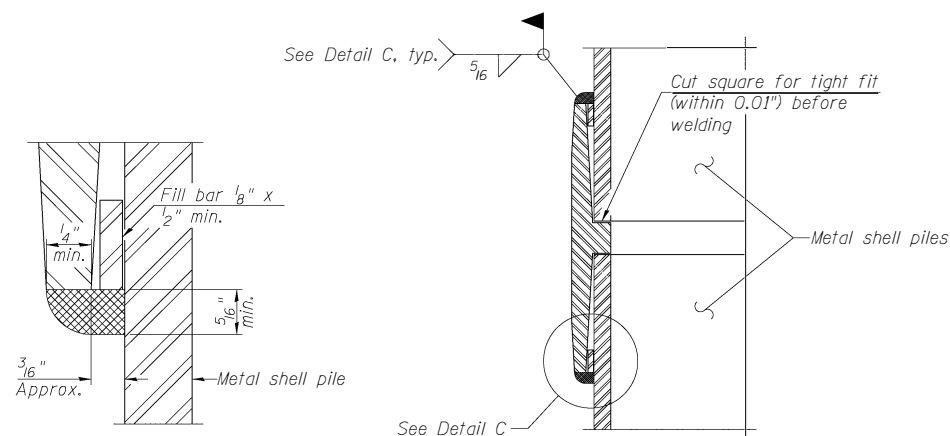


ELEVATION



SECTION A-A

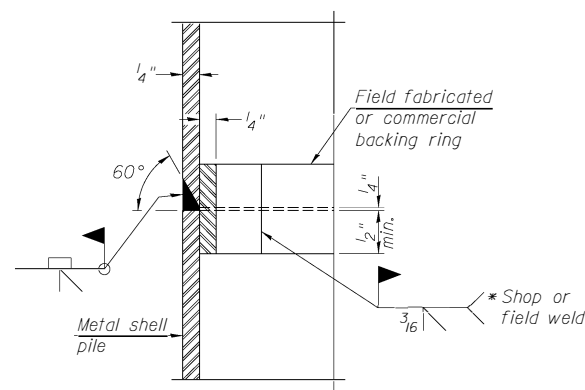
DETAIL OF METAL SHELL PILE ENCASEMENT AT ABUTMENTS



DETAIL C

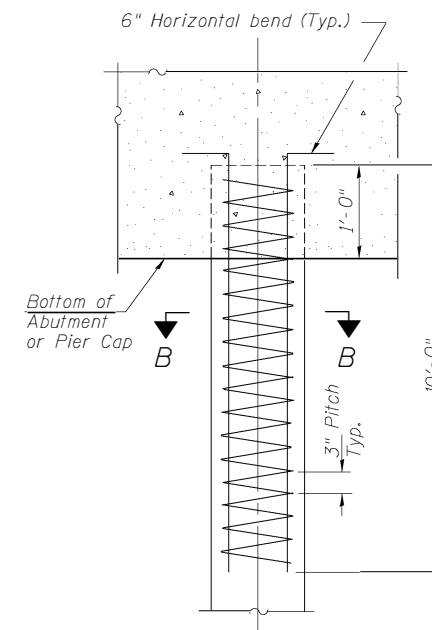
WELDED COMMERCIAL SPLICE

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.

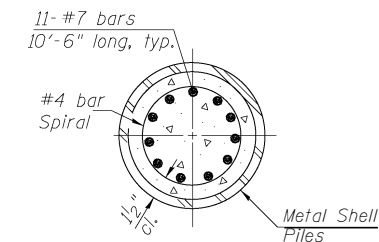


COMPLETE PENETRATION WELD SPLICE

* 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.



ELEVATION



SECTION B-B

The cost of Reinforcement is included with Furnishing Metal Shell Piles 14"x0.250"

DETAIL OF REINFORCEMENT AT ABUTMENTS AND PIERS

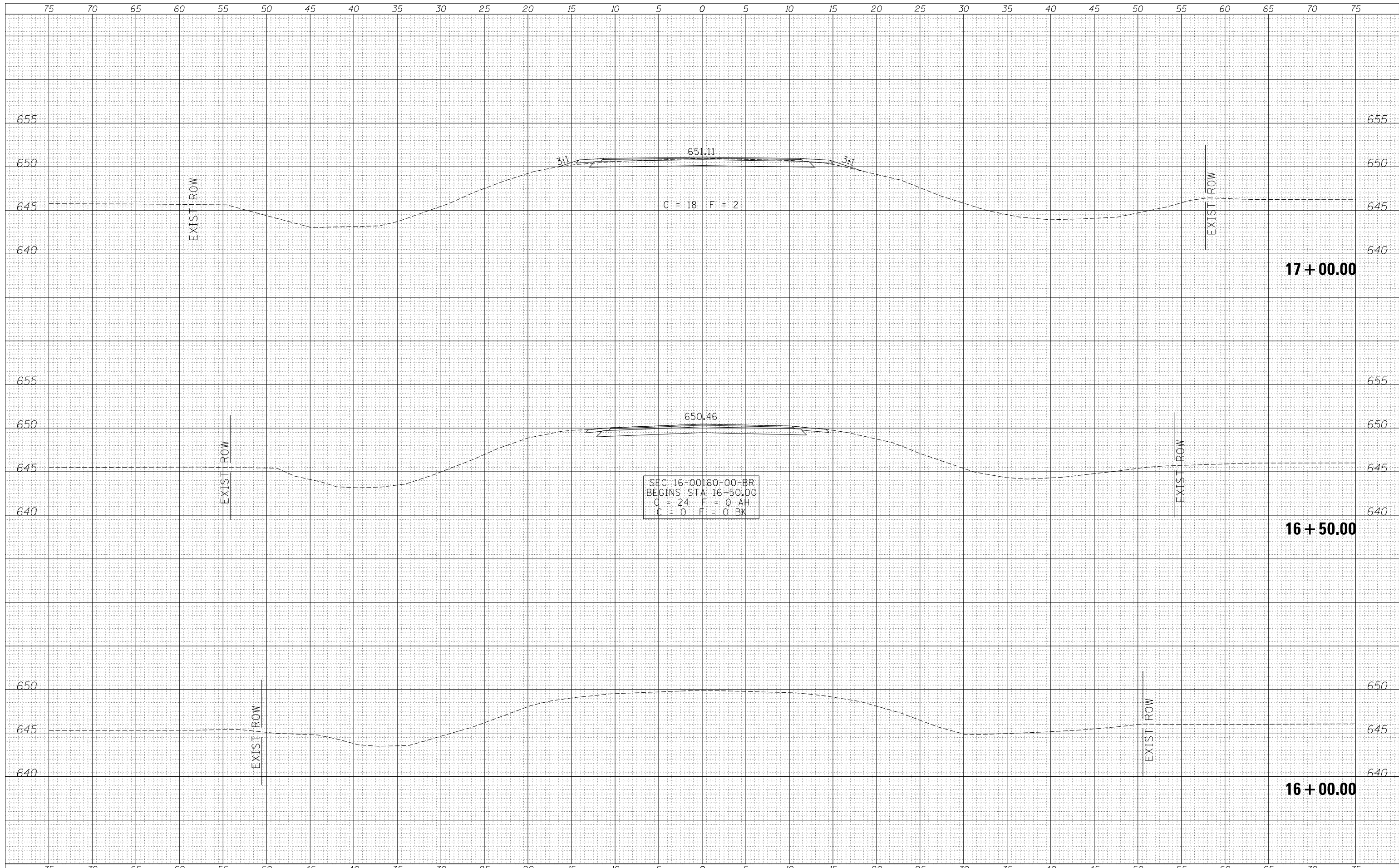
**METAL SHELL PILE DETAILS
HENRY COUNTY
SECTION 16-00160-00-BR
C.H. 14 OVER MUD CREEK**

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

SHEET NO. 11 11 SHEETS	F.A.S. ROUTE 238	SECTION 16-00160-00-BR	COUNTY HENRY	TOTAL SHEETS 25	SHEET NO. 17
	S.N. 037-3380		CONTRACT NO. 85672		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NO. 3NH0(574)			

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

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



SEC 16-00160-00-BR
 BEGINS STA 16+50.00
 C = 24 F = 0 AH
 C = 0 F = 0 BK

FILE NAME =	USER NAME = SMierzwa	DESIGNED -	REVISED -
V:\4217 - CH 14 over Mud Creek (Henry)\CADD\CADD Sheets\4217xshs.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -
MODELNAME	PLOT DATE = 7/30/2018		

**HENRY COUNTY
 COUNTY HIGHWAY 14
 OVER MUD CREEK**

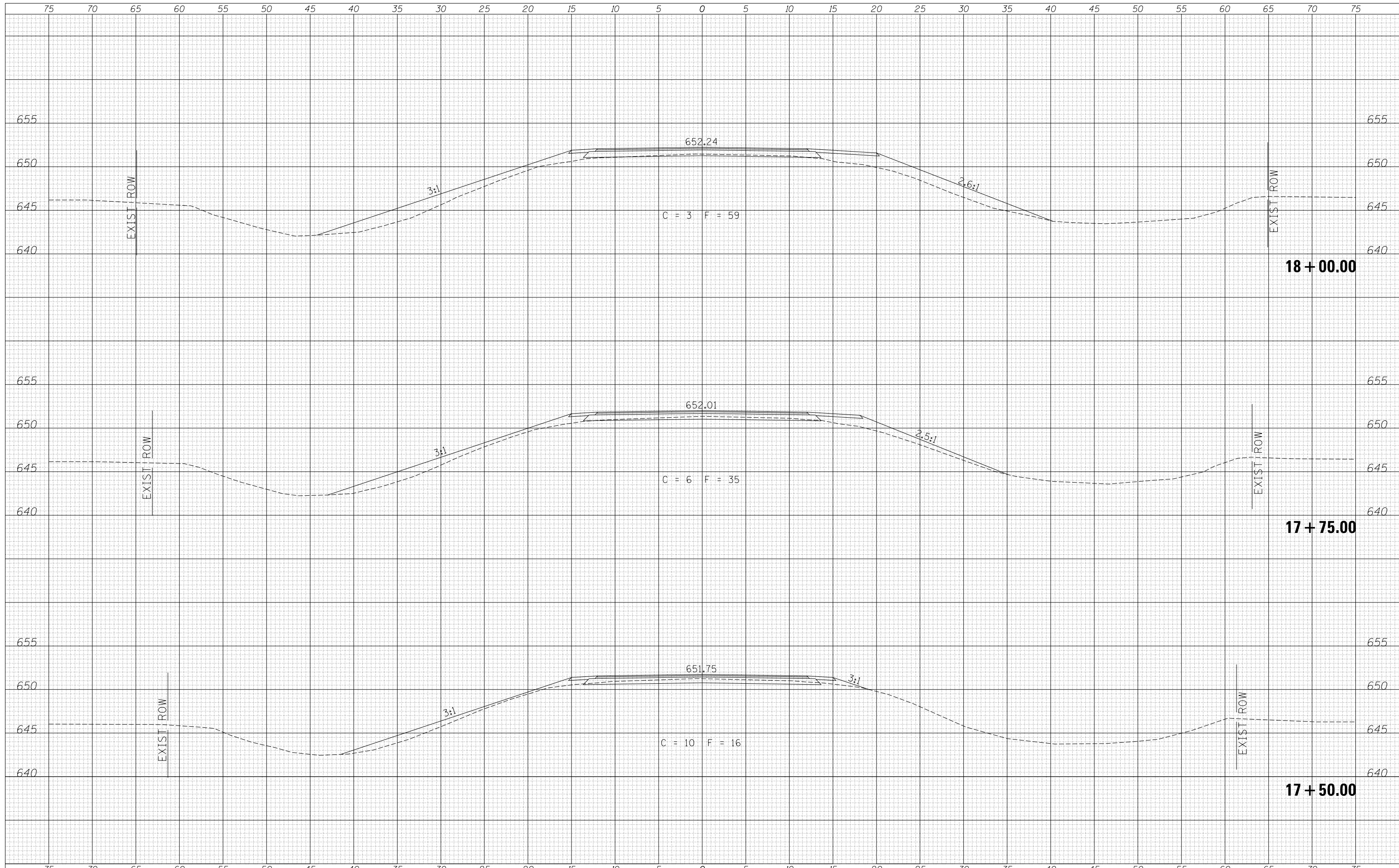
CROSS SECTIONS

SCALE: 1"=5' SHEET 1 OF 8 SHEETS STA. 16+00.00 TO STA. 17+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
238	16-00160-00-BR	HENRY	25	18
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. 3NH05741	
			CONTRACT NO. 85672	

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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Sheets\4217xshs.dgn		DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 7/30/2018		DATE -	REVISED -

**HENRY COUNTY
COUNTY HIGHWAY 14
OVER MUD CREEK**

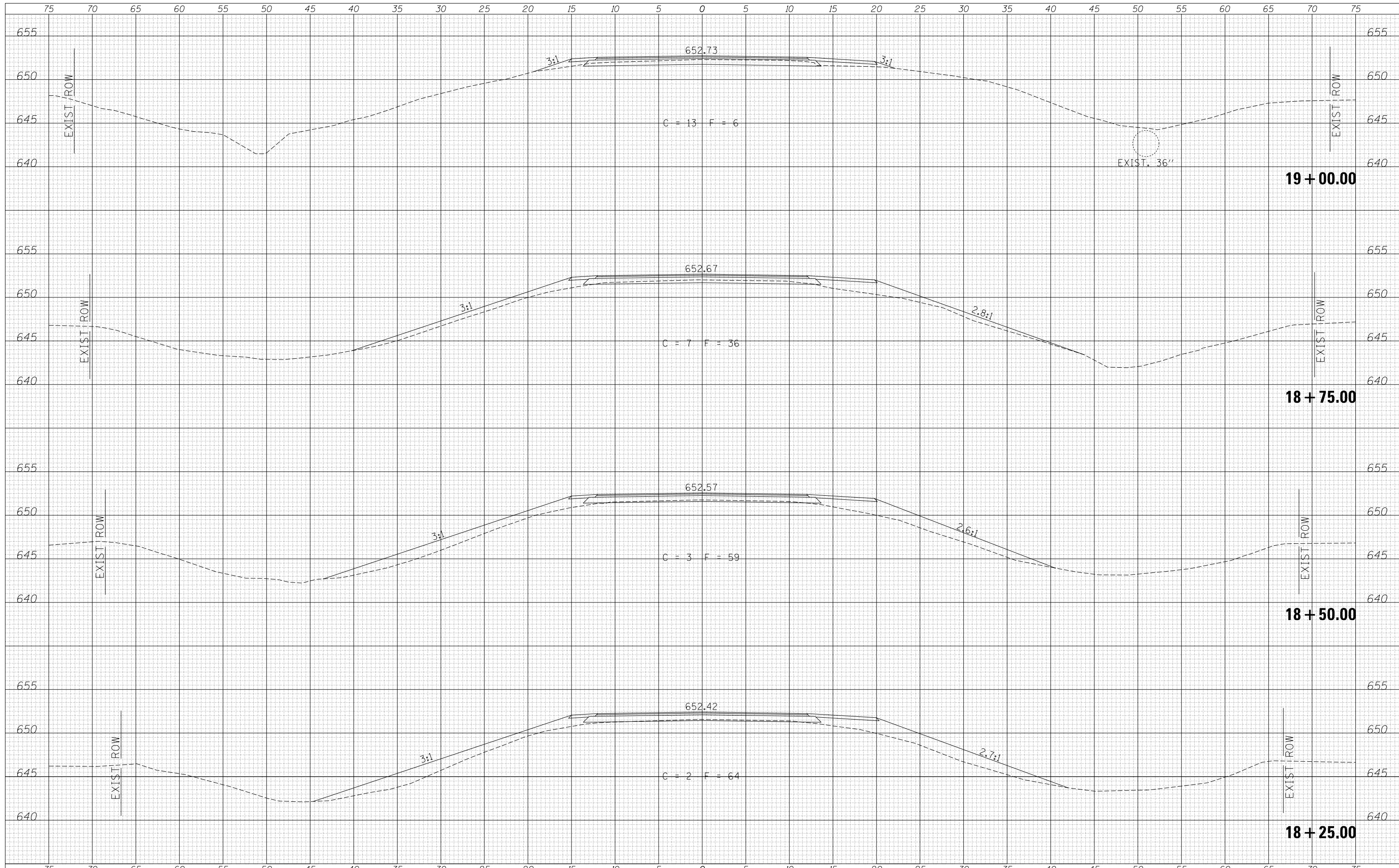
CROSS SECTIONS

SCALE: 1"=5' SHEET 2 OF 8 SHEETS STA. 17+50.00 TO STA. 18+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
238	16-00160-00-BR	HENRY	25	19
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 85672	
FED. AID PROJECT NO. 3NH015741				

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

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



FILE NAME -	USER NAME - SMierzwa	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
MODELNAME	PLOT DATE - 7/30/2018	DATE -	REVISED -

**HENRY COUNTY
COUNTY HIGHWAY 14
OVER MUD CREEK**

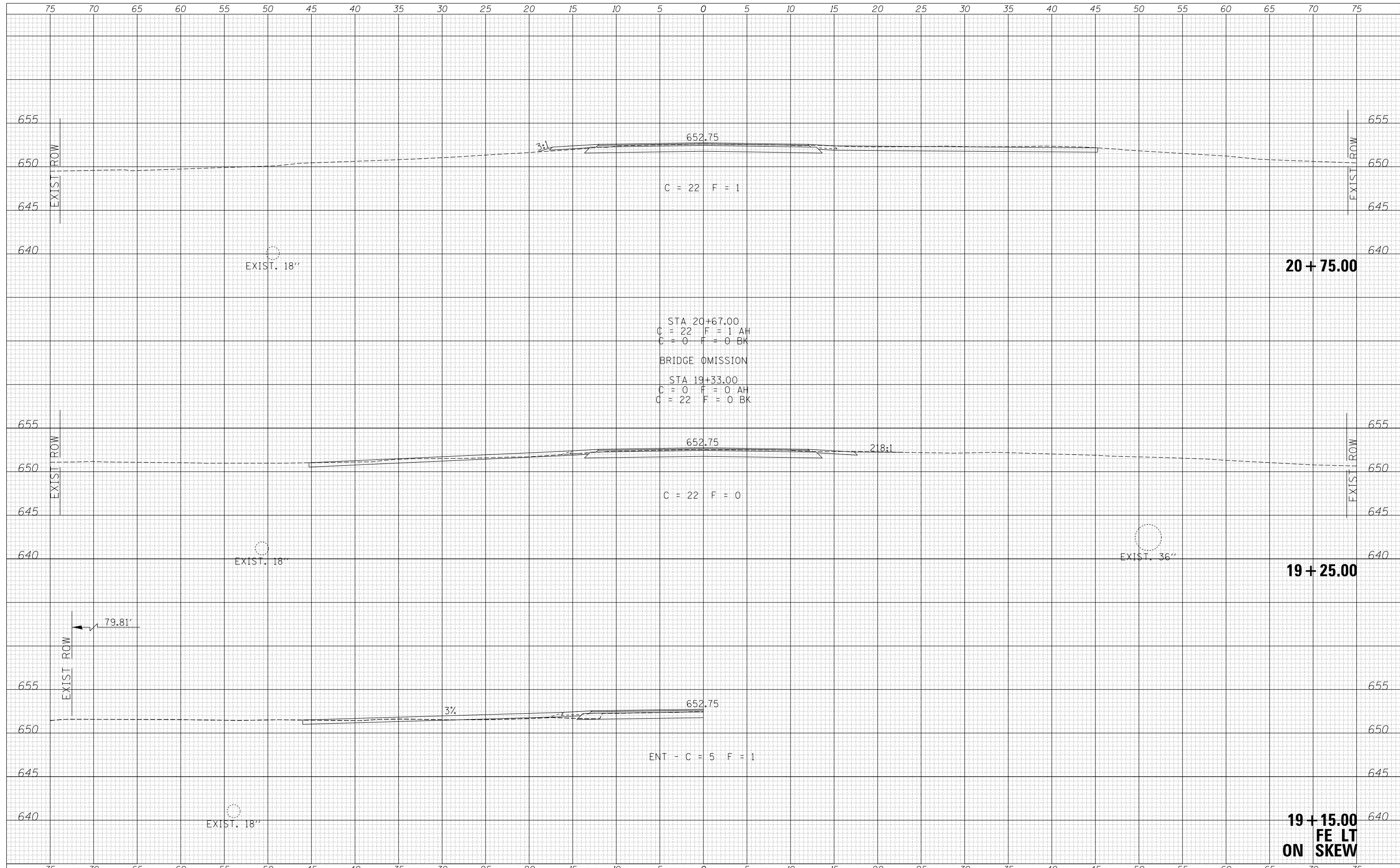
CROSS SECTIONS

SCALE: 1"=5' SHEET 3 OF 8 SHEETS STA. 18+25.00 TO STA. 19+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
238	16-00160-00-BR	HENRY	25	20
CONTRACT NO. 85672				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. 3NH05741	

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

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



FILE NAME = V:\4217 - CH 14 over Mud Creek (Henry)\CADD\CADD Sheets\4217xshs.dgn	USER NAME = SMierzwa	DESIGNED -	REVISIED -
		DRAWN -	REVISIED -
		CHECKED -	REVISIED -
		DATE -	REVISIED -
MODELNAME\$	PLOT DATE = 7/30/2018		

**HENRY COUNTY
COUNTY HIGHWAY 14
OVER MUD CREEK**

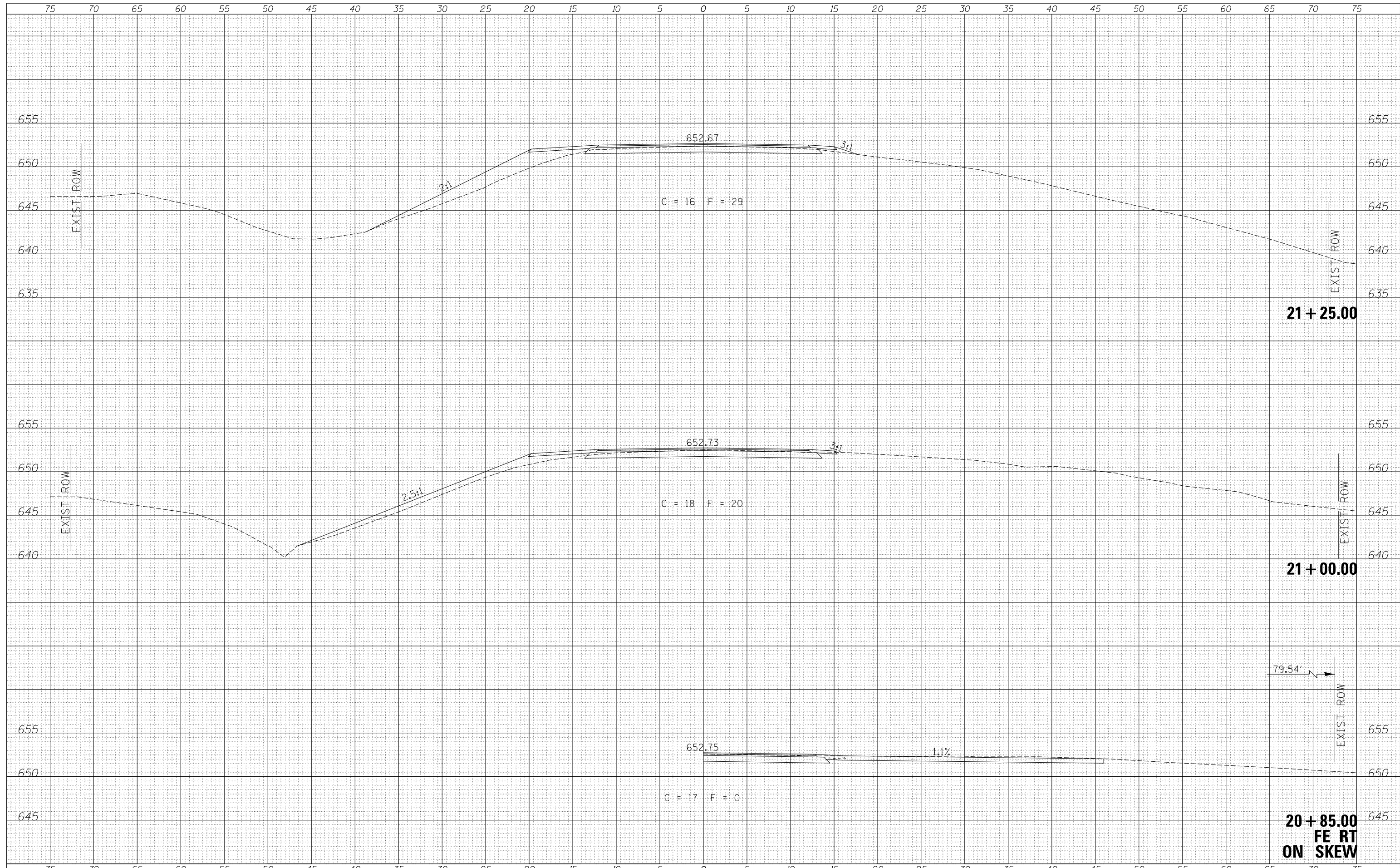
CROSS SECTIONS

SCALE: 1"=5' SHEET 4 OF 8 SHEETS STA. 19+15.00 TO STA. 20+75.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
238	16-00160-00-BR	HENRY	25	21
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 85672	
FED. AID PROJECT NO. 3NH015741				

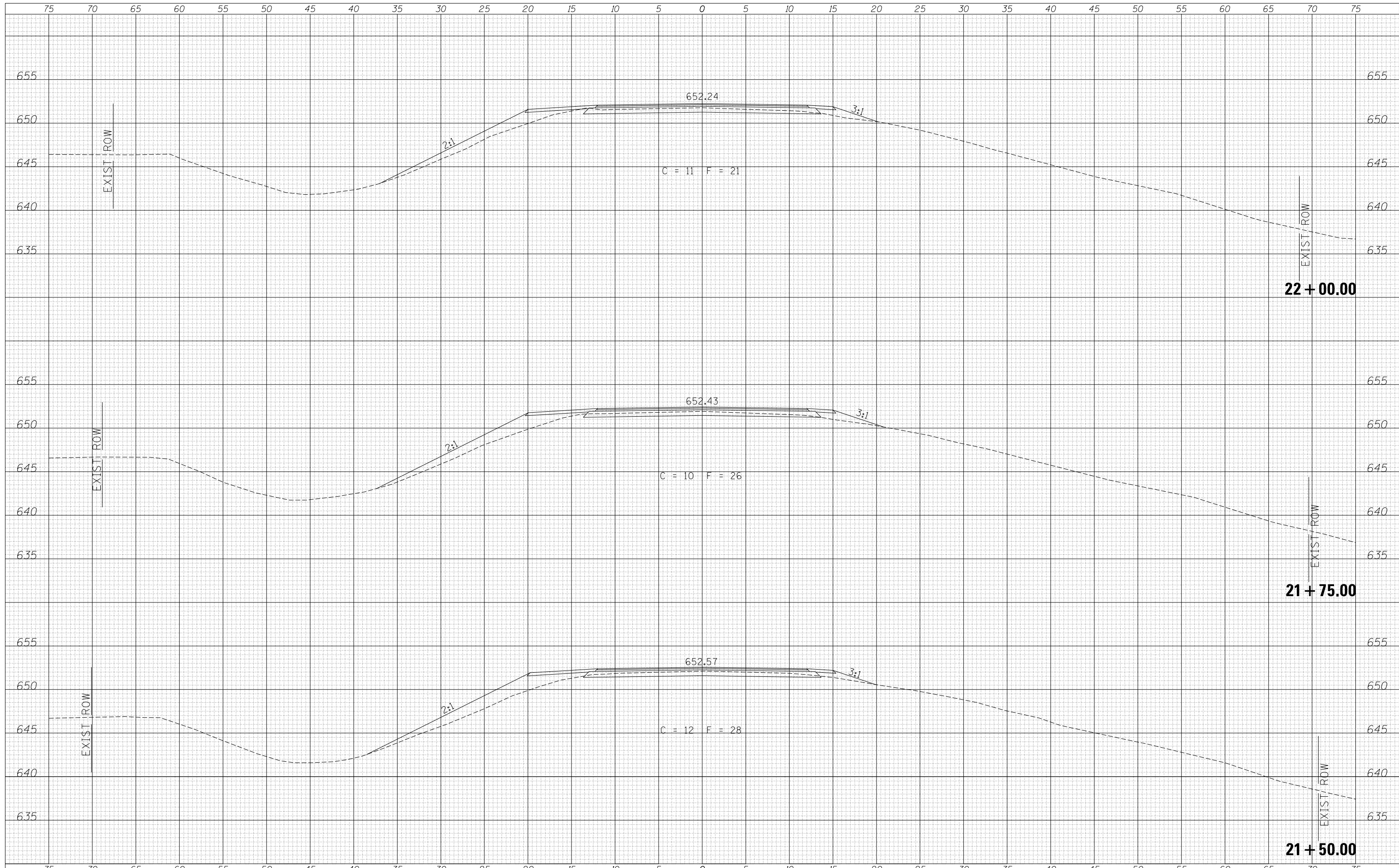
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BY	
FINAL SURVEY NO.	
SURVEYED PLOTTED	
NOTE BOOK	
AREAS CHECKED	

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



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
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FILE NAME -	USER NAME - SMierzw	DESIGNED -	REVISED -
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		CHECKED -	REVISED -
		DATE -	REVISED -

**HENRY COUNTY
COUNTY HIGHWAY 14
OVER MUD CREEK**

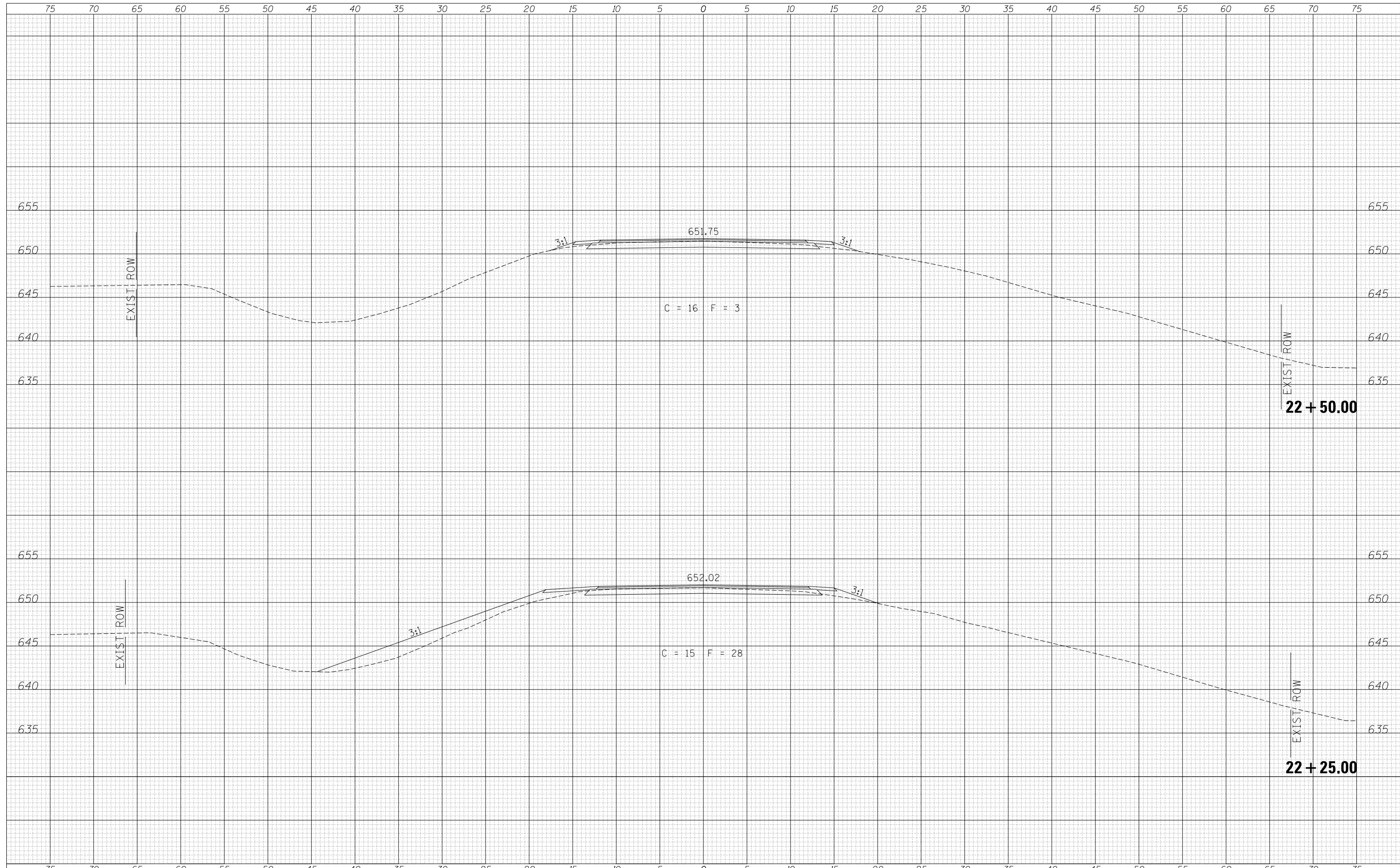
CROSS SECTIONS

SCALE: 1"=5' SHEET 6 OF 8 SHEETS STA. 21+50.00 TO STA. 22+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
238	16-00160-00-BR	HENRY	25	23
CONTRACT NO. 85672				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT NO. 3NH015741	

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

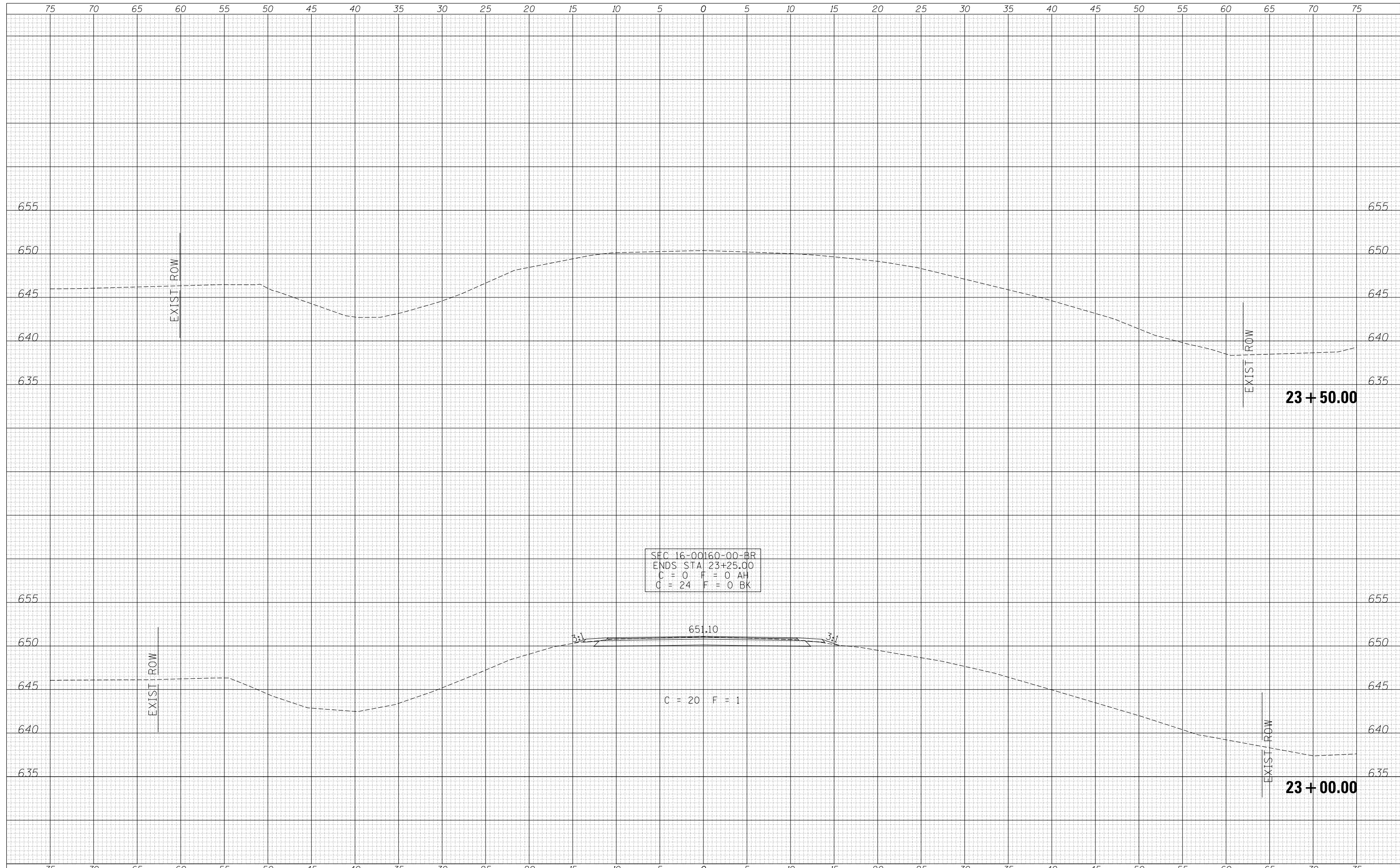
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME = V:\4217 - CH 14 over Mud Creek (Henry)\CADD\CADD Sheets\4217xshs.dgn	USER NAME = SMierzwa	DESIGNED -	REVISIED -	HENRY COUNTY COUNTY HIGHWAY 14 OVER MUD CREEK	CROSS SECTIONS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
MODELNAME	PLLOT SCALE = 10.0000' / in.	DRAWN -	REVISIED -			238	16-00160-00-BR	HENRY	25	24	
	PLLOT DATE = 7/30/2018	CHECKED -	REVISIED -			CONTRACT NO. 85672					
		DATE -	REVISIED -			SCALE: 1"=5' SHEET 7 OF 8 SHEETS STA. 22+25.00 TO STA. 22+50.00 FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT NO. 3NH015741					

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

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



FILE NAME = V:\4217 - CH 14 over Mud Creek (Henry)\CADD\CAD Sheets\4217xshs.dgn	USER NAME = SMierzwa	DESIGNED -	REVISIED -	HENRY COUNTY COUNTY HIGHWAY 14 OVER MUD CREEK	CROSS SECTIONS	F.A.S. RTE. 238	SECTION 16-00160-00-BR	COUNTY HENRY	TOTAL SHEETS 25	SHEET NO. 25
MODELNAME	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -			SCALE: 1"=5'	SHEET 8 OF 8 SHEETS	STA. 23+00.00 TO STA. 23+50.00	CONTRACT NO. 85672	
	PLOT DATE = 7/30/2018	DATE -	REVISIED -			FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT NO. 3NH015741		