

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
HIGHWAY BRIDGE PROGRAM**

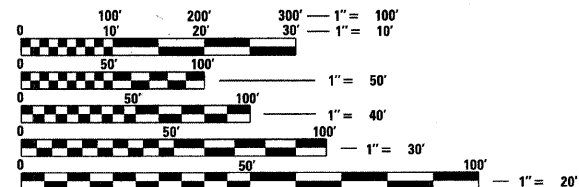
TR ROUTE 216
CHRISTIAN COUNTY
SECTION 08-16112-00-BR
PROJECT BROS-0021 (163)
STONINGTON TOWNSHIP
C-96-263-10

INDEX OF SHEETS

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- 14.-26. CROSS SECTIONS

STANDARDS (IN PROPOSAL)

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 280001-06 TEMPORARY EROSION CONTROL SYSTEMS
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
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- BLR21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR27-1 TRAFFIC BARRIER TERMINAL TYPE 5A



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

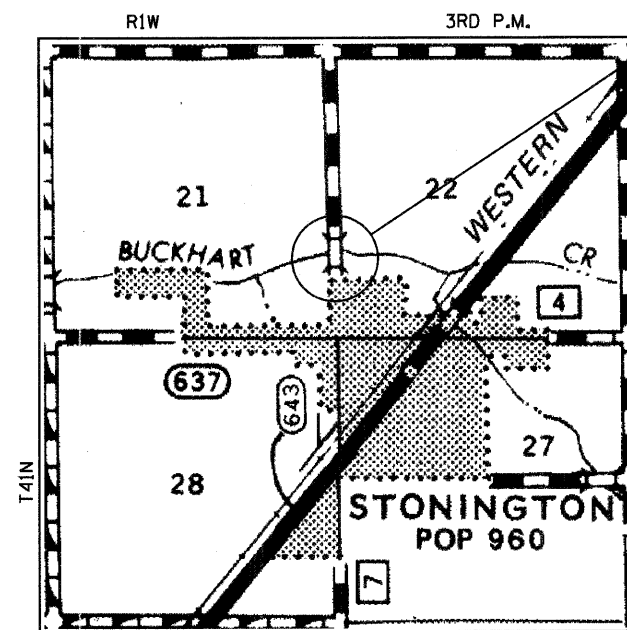
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

PROJECT ENGINEER: TYLER ZIEGLER, E.I.
PROJECT MANAGER: SCOTT D. SANFORD, P.E., S.E.

WHKS & CO.
ENGINEERING
7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036



Scott D. Sanford
Expires 11/30/2011



LOCATION MAP SCALE
0 1 MI 2 MI

LOCATION MAP
TOTAL LENGTH = 535.00 FEET (0.101 MI)
NET LENGTH = 535.00 FEET (0.101 MI)

FUNCTIONAL CLASSIFICATION - LOCAL ROAD
ADT = 150
DESIGN SPEED = 30 MPH

THE WORK CONSISTS OF REMOVING THE EXISTING BRIDGE AND CONSTRUCTING A NEW STRUCTURE (SN 011-3418) AT STA. 10+00 (TR 216) WITH A SINGLE SPAN PRECAST PRESTRESSED REINFORCED DECK BEAM BRIDGE ON CONCRETE PILE BENT ABUTMENTS, 24'-0" CLEAR ROADWAY WIDTH AND 42'-4" BACK TO BACK OF ABUTMENTS, 0° SKEW, VARIABLE WIDTH TRANSITION APPROACHES AND OTHER COLLATERAL WORK.

SECTION 08-16112-00-BR
BEGINS STA. 7+65.00
ENDS STA. 13+00.00
PROP. SN 011-3418
REPLACES SN 011-3172

UTILITY COMPANIES:

SHELBY ELECTRIC CO-OP
RTE. 128 & N. 6TH ST.
P.O. BOX 560
SHELBYVILLE, IL 62565
PHONE: 217-774-3986
CONTACT: JIM MATLOCK

CONSOLIDATED COMMUNICATIONS
121 S. 17TH STREET
MATTOON, IL 61938
PHONE: 217-235-3311
CONTACT: DOUG HOUCHIN

SUDENLINK CABLE CO.
127 S. MAIN ST.
MOWEAQUA, IL 62550
PHONE: 217-768-3989
CONTACT: DARREN GILLUM

VILLAGE OF STONINGTON
P.O. BOX 290
STONINGTON, IL 62567
PHONE: 217-325-3621
CONTACT: JEFF TUMIATI



LOCATION OF SECTION INDICATED THUS: [Symbol]

APPROVED Dec. 06, 2011

Clay D. Fry
COUNTY ENGINEER

APPROVED Dec. 6, 2011

Bernard R. Berck
ROAD COMMISSIONER

PASSED December 9, 2011

Tarence H. Fectain, Jr.
DISTRICT SIX ENGINEER OF
LOCAL ROADS AND STREETS

Ron Cochran
DISTRICT SIX ENGINEER OF
CONSTRUCTION

Released For Bid Based on Limited Review December 9, 2011

Roger J. Smith, Jr.
DEPUTY DIRECTOR OF HIGHWAYS
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

CONTRACT NO. 93559

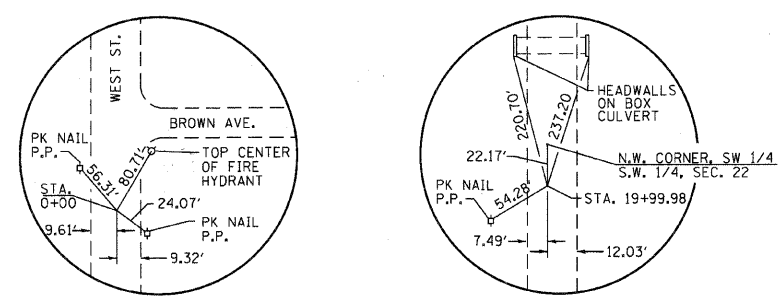
SUMMARY OF QUANTITIES

CODE NUMBER	PAY ITEM	UNIT	TOTAL
20200100	EARTH EXCAVATION	CU YD	459
20300100	CHANNEL EXCAVATION	CU YD	74
20400800	FURNISHED EXCAVATION	CU YD	134
28000305	TEMPORARY DITCH CHECKS	FOOT	46
28000400	PERIMETER EROSION BARRIER	FOOT	249
28000500	INLET AND PIPE PROTECTION	EACH	4
28100207	STONE RIPRAP, CLASS A4	TON	88
28100209	STONE RIPRAP, CLASS A5	TON	203
28200200	FILTER FABRIC	SQ YD	318
35101400	AGGREGATE BASE COURSE, TYPE B	TON	427
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	135
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	352
40300300	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	GALLON	984
40300500	COVER COAT AGGREGATE	TON	22
40300600	SEAL COAT AGGREGATE	TON	11
48101200	AGGREGATE SHOULDERS, TYPE B	TON	144
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	110
50200100	STRUCTURE EXCAVATION	CU YD	82
50300225	CONCRETE STRUCTURES	CU YD	19.5
50300280	CONCRETE ENCASMENT	CU YD	2.8
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	984
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2,880
Δ 50900205	STEEL RAILING, TYPE S1	FOOT	85
51201600	FURNISHING STEEL PILES HP12x53	FOOT	301
51202305	DRIVING PILES	FOOT	301
51203600	TEST PILE STEEL HP12x53	EACH	1
51500100	NAME PLATES	EACH	1
542A0235	PIPE CULVERTS, CLASS A, TYPE 1 30"	FOOT	26
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	64
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	50
542I3675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2
550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	48
Δ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
67100100	MOBILIZATION	LSUM	1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	LSUM	1
Δ 78201000	TERMINAL MARKER-DIRECT APPLIED	EACH	2
• X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.6

• SPECIAL PROVISION
 Δ SPECIALTY ITEMS
 CONSTRUCTION TYPE CODE: 0011
 BRIDGE TYPE CODE: X080

GENERAL NOTES

- WHERE PERMANENT SURVEY MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE DISTURBED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.
- THE ENGINEER SHALL NOT GUARANTEE THE WORK OF ANY CONTRACTOR OR SUBCONTRACTOR, SHALL HAVE NO SUPERVISION OF THE PERSONS DOING THE WORK, SHALL HAVE NO CHARGE OF THE WORK, SHALL NOT BE RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE JOB SITE OR HAVE ANY CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENT, SCAFFOLDING, SUPPORT, FORMS OR OTHER WORK AIDS.
- ALL ELEVATIONS ARE BASED ON NAVD 88. THE PROPOSED GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEET AND STATION CROSS SECTIONS ARE THE ELEVATIONS FOR THE FINISHED SURFACE AT THE LOCATIONS INDICATED.
- THE FOLLOWING RATES WERE USED IN CALCULATING QUANTITIES FOR THIS PROJECT:
 RIPRAP: 1.5 TONS/CU YD
 AGGREGATE BASE COURSE/AGGREGATE SHOULDERS: 2.05 TONS/CU YD
 BITUMINOUS MATERIALS (PRIME COAT) : 0.375 GALLONS/SQ YD
 BITUMINOUS MATERIALS (COVER & SEAL COAT) : 0.35 GALLONS/SO YD
 COVER COAT & SEAL COAT AGGREGATE : 23 POUNDS/SO YD
- CONTRACTOR SHALL FOLLOW CONSTRUCTION REQUIREMENTS OF SECTION 611 WHEN EXISTING FIELD TILE IS ENCOUNTERED UNLESS DIRECTED OTHERWISE BY ENGINEER. THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTION 109.04 OF THE STANDARD SPECIFICATIONS.
- UTILITIES ARE SHOWN IN ACCORDANCE WITH BEST AVAILABLE INFORMATION AND THEIR TRUE LOCATION IS NOT GUARANTEED TO BE AS SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND CARRY ON HIS WORK OPERATIONS ACCORDINGLY.



TR 216
CONTROL POINT COORDINATES

POINT #5	N - 11,531.26
	E - 9,984.63
POINT #7	N - 9,531.29
	E - 9,988.69

STA. 0+00.00, 2.41' RT. STA. 19+99.98, 1.65' LT.

EARTH WORK SCHEDULE

LOCATION	1	2	3	4
	20200100 EARTH EXCAVATION (CU. YD.)	EXCAVATION TO BE USED IN EMBANKMENT (ADJUSTED FOR SHRINKAGE) (COL 1 x 0.75) (CU. YD.)	EMBANKMENT (FILL) (CU. YD.)	EARTHWORK BALANCE WASTE (+) AND SHORTAGE (-) (CU. YD.)
TR 216 7+65.00 TO 13+25.00	459	345	479	-134
EARTH EXCAVATION SHRINKAGE FACTOR = 25%				
ITEMS MARKED WITH AN ASTERISK (*) ARE FOR INFORMATIONAL PURPOSES ONLY				

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USER NAME = dheberling	DESIGNED - TJZ	REVISED
PLOT SCALE = 0.1" = 1' IN.	DRAWN - DLH	REVISED
PLOT DATE = 11/14/2011	CHECKED - SDS	REVISED
	DATE - 2/22/11	REVISED

WHKS & CO.
ENGINEERING

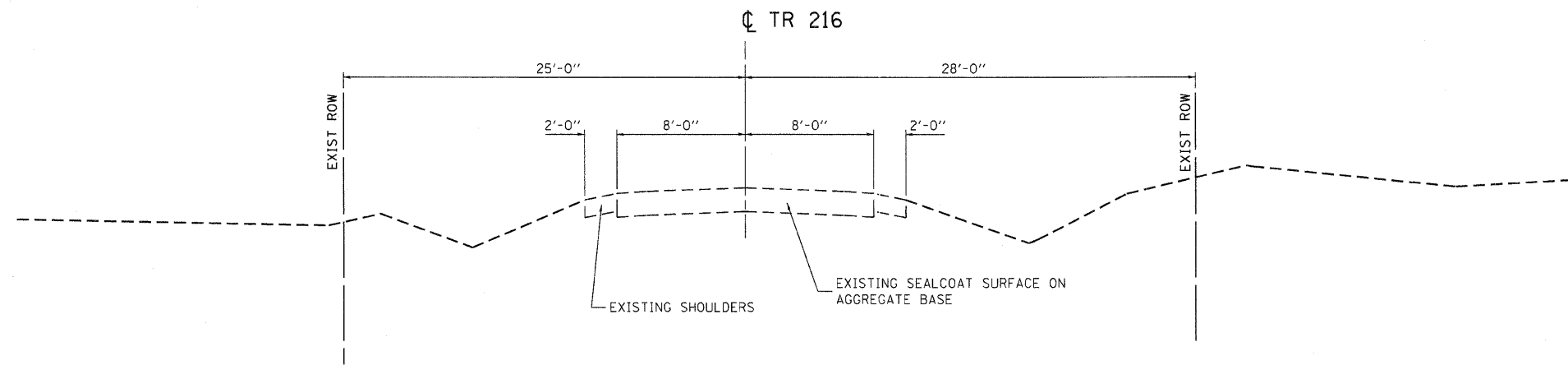
7018 KINGSMILL CT.
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

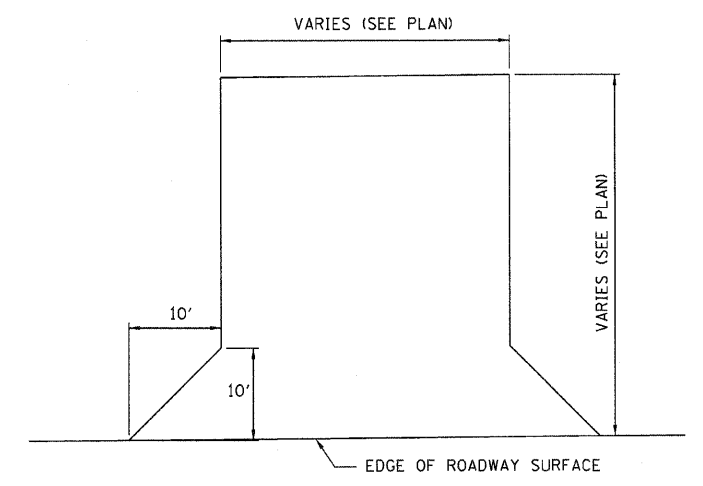
GENERAL NOTES AND SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

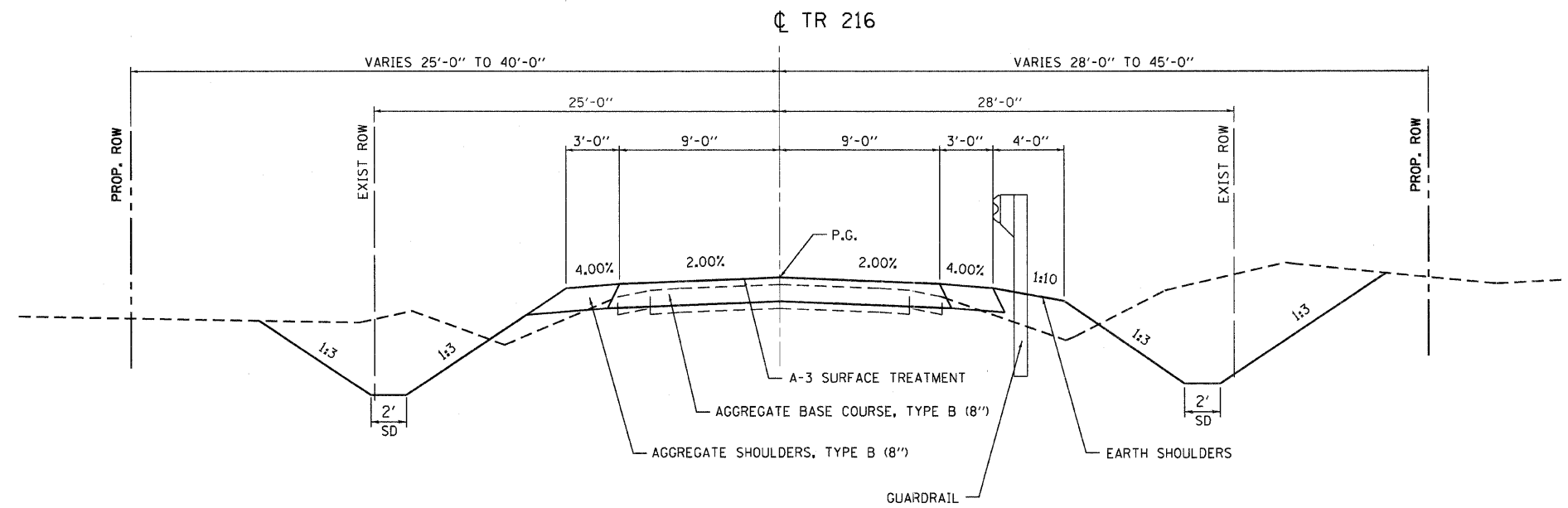
T.R. RTE. 216	SECTION 08-1612-00-BR	COUNTY CHRISTIAN	TOTAL SHEETS 26	SHEET NO. 2
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		CONTRACT NO. 9359		



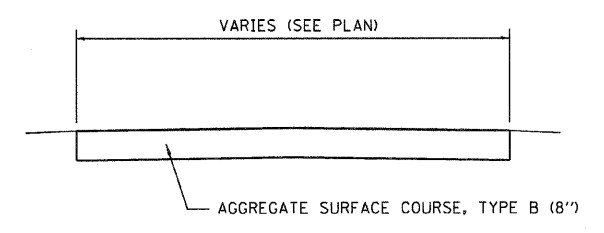
EXISTING TYPICAL SECTION
STA. 7+65.00 TO STA. 13+00.00



TYPICAL ENTRANCE PLAN
STA. 8+10.00, L.T.
STA. 11+28.00, RT.
STA. 11+50.00, L.T.
STA. 12+36.00, RT.



PROPOSED TYPICAL SECTION
STA. 7+65.00 TO STA. 12+75.00



TYPICAL SECTION THRU ENTRANCE

- NOTE:
1. TRANSITION FROM EXISTING ROADWAY TO PROPOSED ROADWAY TO BE CONSTRUCTED FROM STA. 7+65.00 TO STA. 8+15.00 AND FROM STA. 12+25.00 TO STA. 12+75.00.
 2. SEE PLAN AND PROFILE SHEET FOR GUARDRAIL LOCATIONS.

I:\jobs\christiancounty\7166 tr 126 over buckhart creek\cadd\sheet\607166-sht-typical.dgn

USER NAME = dhebarling	DESIGNED - TJZ	REVISED
	DRAWN - DLH	REVISED
PLOT SCALE = 0.160000' / IN.	CHECKED - SDS	REVISED
PLOT DATE = 11/14/2011	DATE - 2/22/11	REVISED

WHKS & CO.
ENGINEERING
7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS AND DETAILS			
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	3
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 9359	

FRANCES ROMACK
THEODORE ROMACK

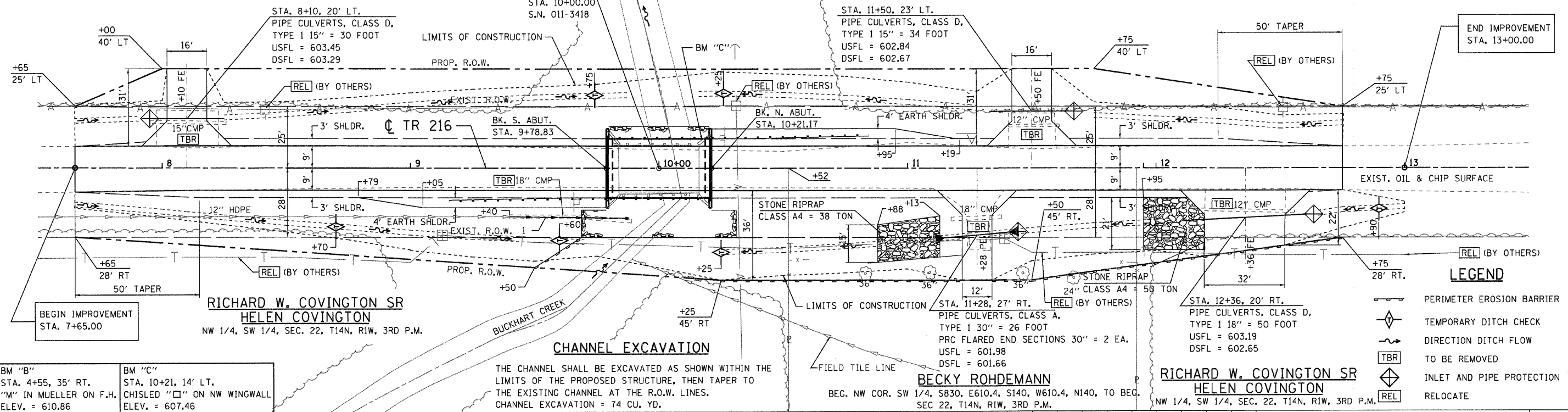
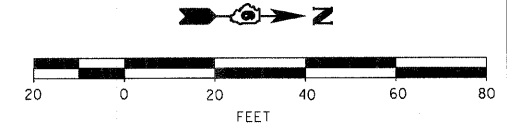
N 1/2, SE 1/4, SEC. 21, T14N, R1W, 3RD P.M.

STA. 8+10, 20' LT.
PIPE CULVERTS, CLASS D,
TYPE 1 15" = 30 FOOT
USFL = 603.45
DSFL = 603.29

CL STRUCTURE
STA. 10+00.00
S.N. 011-3418

1 STA. 9+64, 20' RT.
STORM SEWERS CLASS-B,
TYPE 1 12" = 48 FOOT
DSFL = 601.47
CONNECT TO EXISTING 12" HDPE STORM SEWER.
COST INCLUDED IN STORM SEWERS, CLASS B, TYPE 1 12"

NOTES:
1. CONTRACTOR SHALL CONSULT WITH THE ENGINEER
TO DETERMINE THE EXACT LENGTHS OF THE PIPE
CULVERTS PRIOR TO ORDERING.



BM "B"
STA. 4+55, 35' RT.
"M" IN MUELLER ON F.H.
ELEV. = 610.86

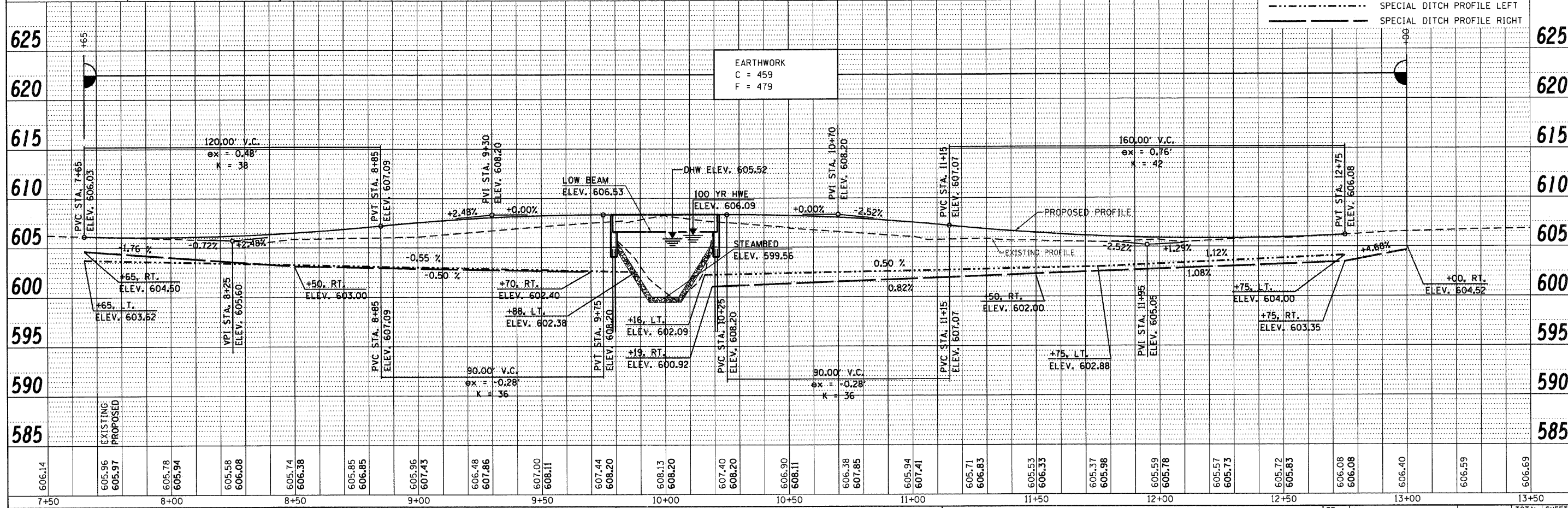
BM "C"
STA. 10+21, 14' LT.
CHISLED "C" ON NW WINGWALL
ELEV. = 607.46

THE CHANNEL SHALL BE EXCAVATED AS SHOWN WITHIN THE
LIMITS OF THE PROPOSED STRUCTURE, THEN TAPER TO
THE EXISTING CHANNEL AT THE R.O.W. LINES.
CHANNEL EXCAVATION = 74 CU. YD.

BECKY ROHDEMANN
BEG. NW COR. SW 1/4, S830, E610.4, S140, W610.4, N140, TO BEG.
SEC 22, T14N, R1W, 3RD P.M.

RICHARD W. COVINGTON SR
HELEN COVINGTON
NW 1/4, SW 1/4, SEC. 22, T14N, R1W, 3RD P.M.

- LEGEND**
- PERIMETER EROSION BARRIER
 - TEMPORARY DITCH CHECK
 - DIRECTION DITCH FLOW
 - TBR TO BE REMOVED
 - INLET AND PIPE PROTECTION
 - RELOCATE



USER NAME = dheberling	DESIGNED - TJZ	REVISED -	<p>7018 KINGSMILL CT. SPRINGFIELD, IL (217) 483-9457 DESIGN FIRM #184001036</p>	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p align="center">PLAN AND PROFILE</p>	TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 20x8.0000" = 1" IN.	DRAWN - DLH	REVISED -				216	08-16112-00-BR	CHRISTIAN	26	4
PLOT DATE = 11/14/2011	CHECKED - SDS	REVISED -				CONTRACT NO 9 5 5 9				
	DATE - 2/22/11	REVISED -				ILLINOIS FED. AID PROJECT				

PLAN	DATE	BY
SURVEYED		
ALIGNED		
CHECKED		
RT. OF WAY CHECKED		
NO. NOTED		
NO. FILE NAME		

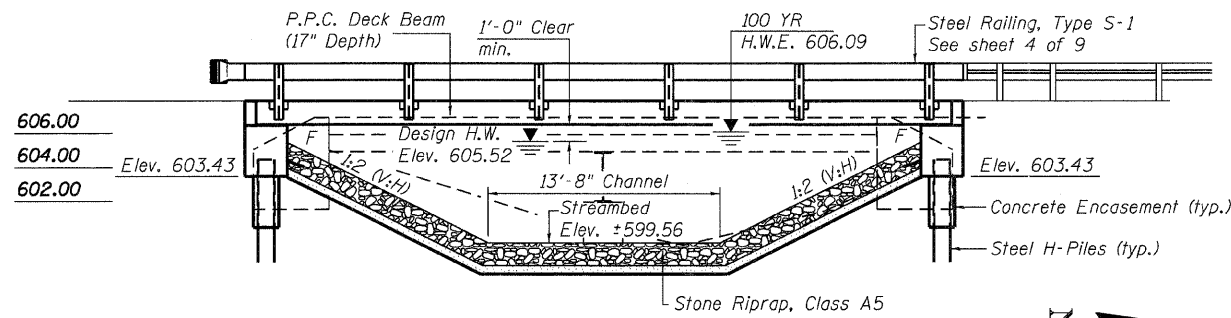
PROFILE	DATE	BY
EXISTING		
PROPOSED		
BLM NOTED		
STRUCTURE NOTATION CHKD		
NO.		

Bench Mark: - Chisled "□" on top of NW wingwall, Elev. 607.46
 Existing Structure: - Structure No. 011-3172, 33'-0" back-to-back of abutments. 20'-0" out-to-out. Two span concrete slab on steel beams. Road to be closed during construction.
 No Salvage

INDEX OF SHEETS

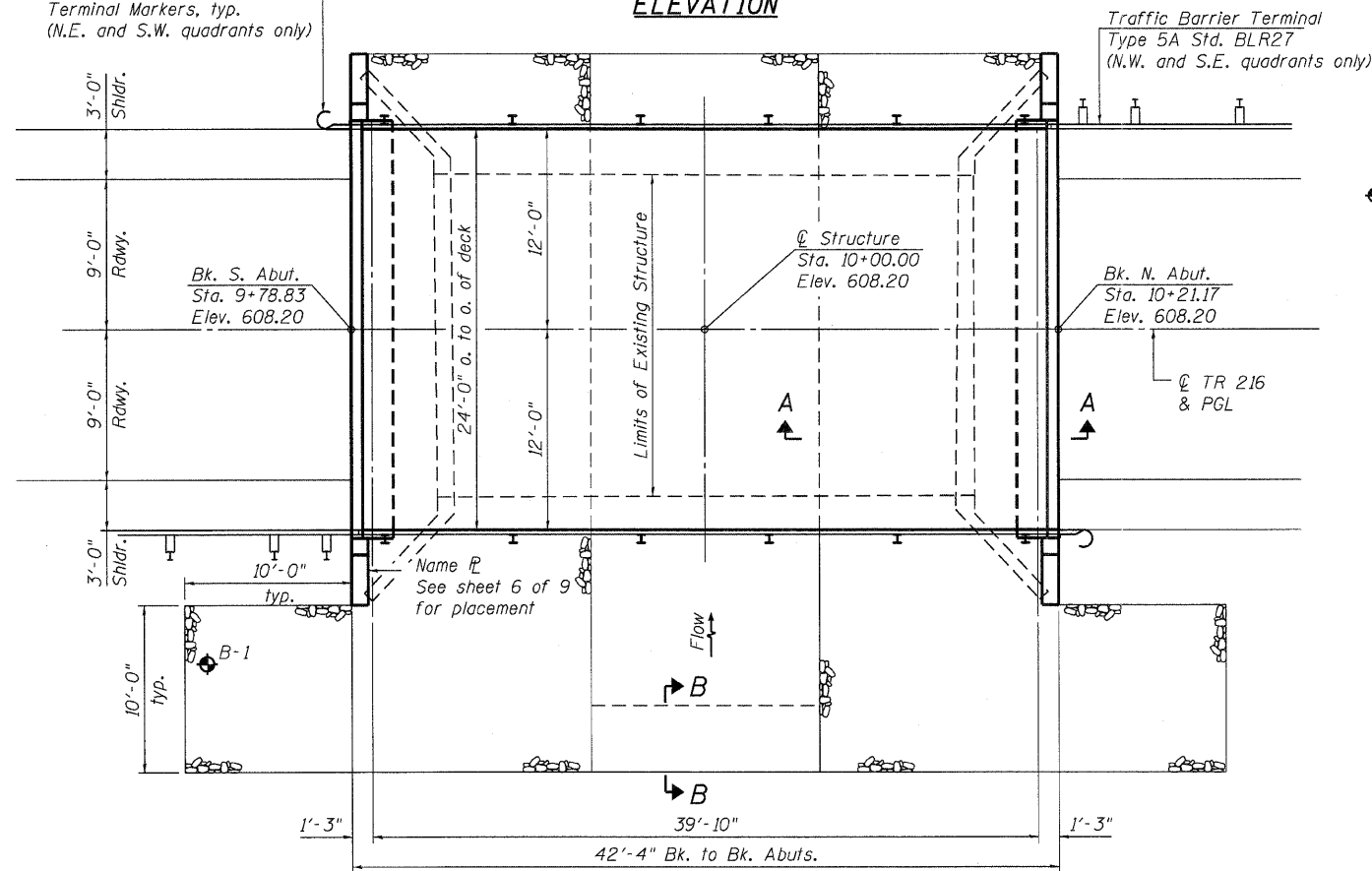
1. General Plan & Elevation
- 2.-3. Superstructure Details
4. Steel Railing Type S-1
5. Rail Terminal Details
6. Abutments
7. Steel H-Pile Details
- 8.-9. Boring Logs

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer. Reinforcement bars designated (E) shall be epoxy coated.



Curled End Section w/ Terminal Markers, typ. (N.E. and S.W. quadrants only)

ELEVATION



PLAN

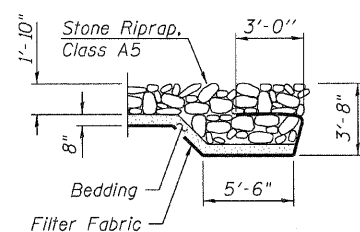
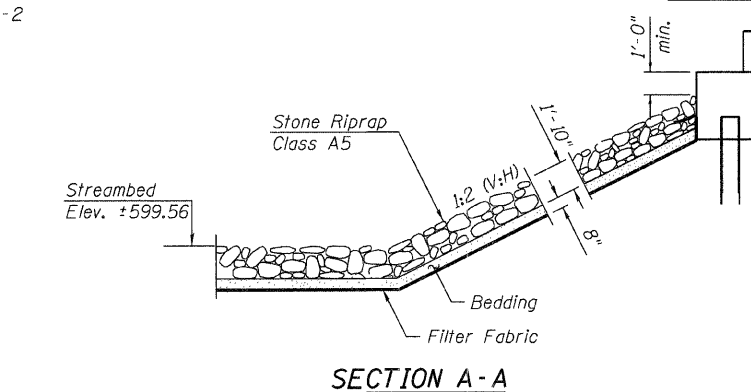
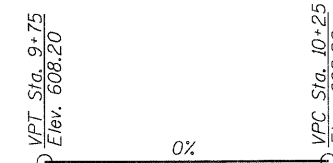
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	S. Abut. 603.43	N. Abut. 603.43
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WATERWAY INFORMATION

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	1100	141	156	605.52	1.02	0.73	606.54	606.25
Base	100	1776	144	177	606.09	2.02	1.19	608.11	607.28
Ex Overtopping	8	895	135	-	605.30	0.98	-	606.28	-
Prop Overtopping	9	960	-	150	605.37	-	0.64	-	606.01

PROPOSED PROFILE GRADE
(Along @ TR 216)



SECTION B-B

BUCKHART CREEK
 BUILT 20 BY
 CHRISTIAN COUNTY
 SECTION 08-16112-00-BR
 TR 216 STA. 10+00
 STR. NO. 011-3418 LOADING HL93

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		74	74
Stone Riprap, Class A5	Ton		203	203
Filter Fabric	Sq. Yd.		222	222
Removal of Existing Structure	Each		1	1
Structure Excavation	Cu. Yd.		82	82
Concrete Structures	Cu. Yd.		19.5	19.5
Concrete Encasement	Cu. Yd.		2.8	2.8
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	984		984
Reinforcement Bars, Epoxy Coated	Pound		2,880	2,880
Steel Railing, Type S-1	Foot	85		85
Furnishing Steel Piles HP 12x53	Foot		301	301
Driving Piles	Foot		301	301
Test Pile Steel HP 12x53	Each		1	1
Name Plates	Each		1	1
Terminal Marker - Direct Applied	Each	2		2

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 A.A.S.H.T.O. LRFD Standard Specifications for Highway Bridges.



Scott D. Sanford
 Signed
 11-16-11
 Dated

DESIGN SPECIFICATIONS

AASHTO LRFD 5th Edition with 2010 Interim Specifications

LOADING HL93

50 psf Future Wearing Surface

DESIGN STRESSES

FIELD UNITS

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

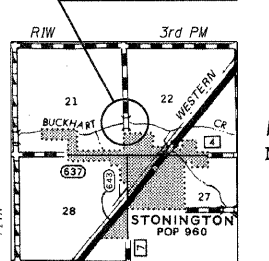
PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
 f'ci = 5,000 psi
 f's = 270,000 psi (1/2" low lax strands)
 f'si = 202,000 psi (1/2" low lax strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.12g
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.24g
 Soil Site Class = C

Proposed Structure



LOCATION SKETCH

I:\jobs\christiancounty\7166 tr 126 over buckhart creek\cadd\cadd sheets\0113418-00000.dgn

USER NAME	DESIGNED	REVISIONS
dhearing	TJZ	REVISIONS
	DLH	REVISIONS
	SDS	REVISIONS
	8/25/11	REVISIONS



7018 KINGSMILL CT.,
 SPRINGFIELD, IL
 (217) 483-9457
 DESIGN FIRM #184001036

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

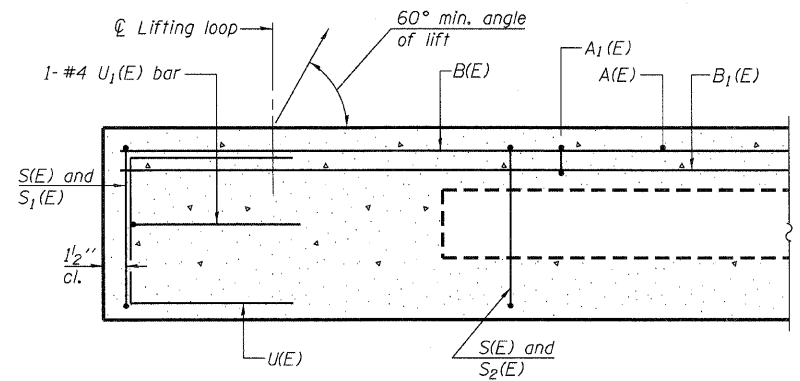
GENERAL PLAN AND ELEVATION

TR 216 OVER BUCKHART CREEK

SCALE: SHEET NO. 1 OF 9 SHEETS @ STA.

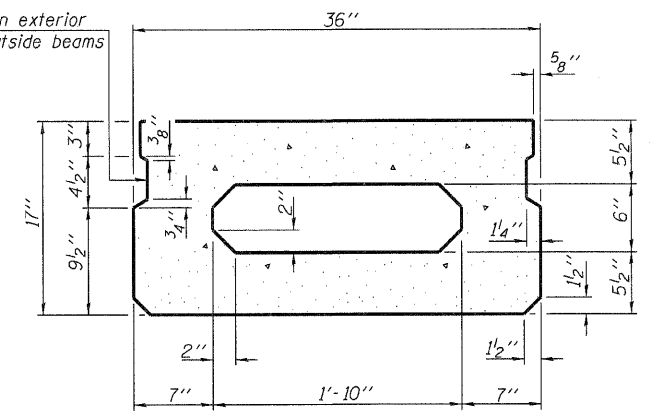
T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	5
S.N. - 011-3418		CONTRACT	9 8 5 5 9	
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

FILENAME: I:\jobs\christiancounty\7166 tr 126 over buckhart creek\cadd\cadd sheets\0113418-000000.dgn

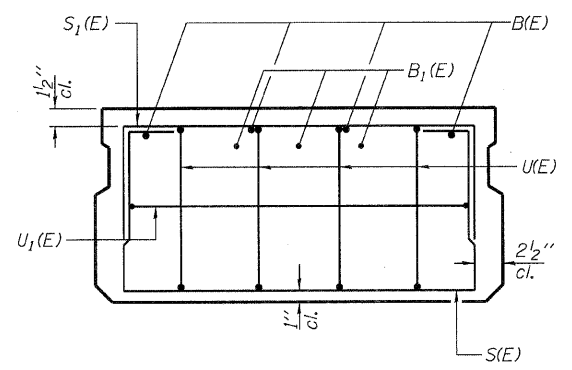


SECTION A-A

* Omit key on exterior face of outside beams

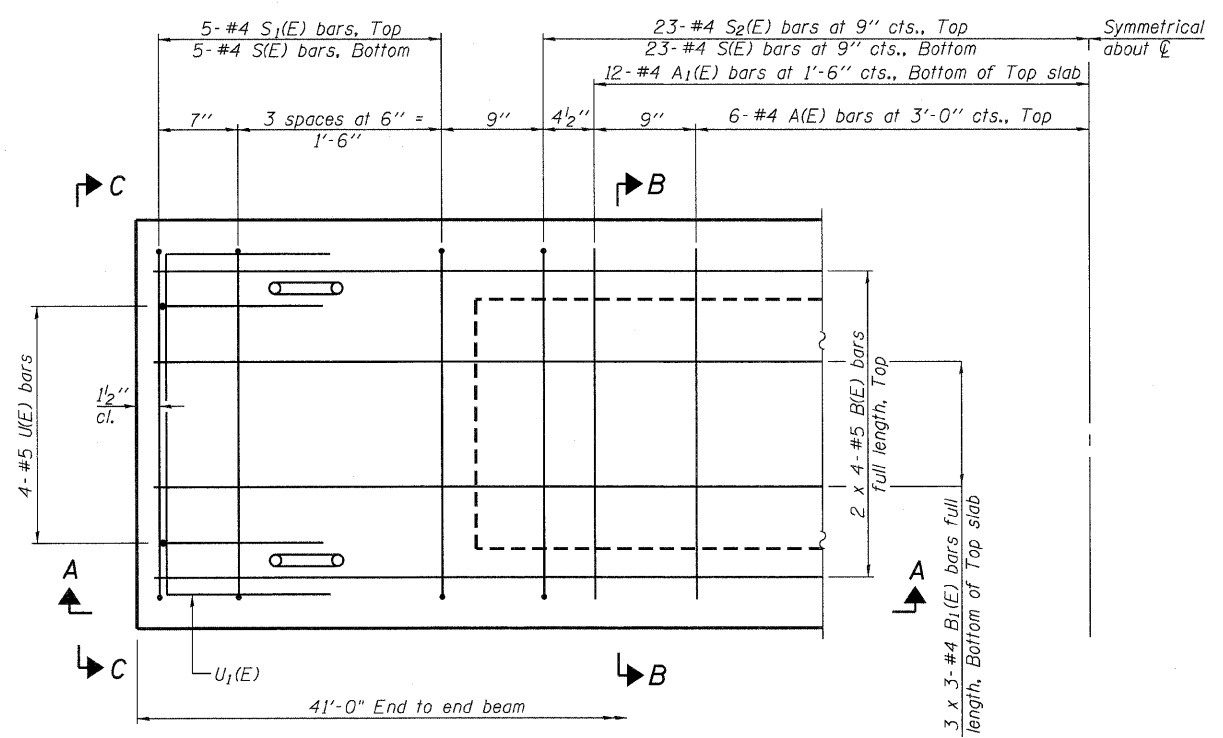


SECTION B-B
(Showing dimensions)

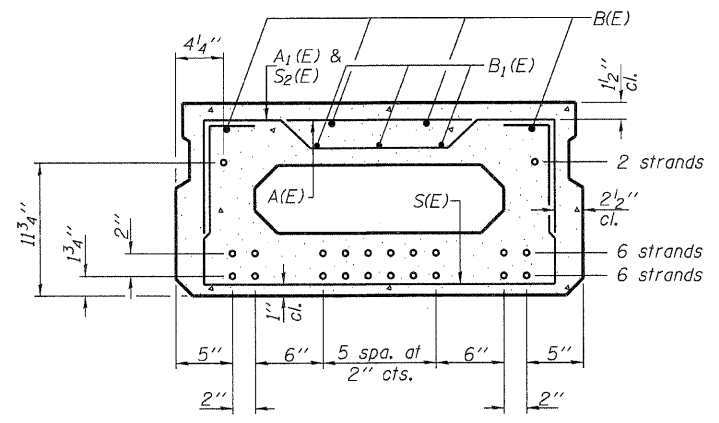


VIEW C-C

* Rail Post Anchor Devices to be cast into exterior face of outside beams. See sheet 4 of 9 for locations.



PLAN VIEW



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

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

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	12	#4	2'-7"	—
A1(E)	24	#4	2'-10"	—
B(E)	8	#5	21'-8"	—
B1(E)	9	#4	14'-11"	—
S(E)	56	#4	5'-9"	U
S1(E)	10	#4	4'-3"	U
S2(E)	46	#4	4'-6"	U
U(E)	8	#5	3'-8"	C
U1(E)	2	#4	5'-0"	C

Note: See sheet 3 of 9 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 = 2'-0"
#5 bar = 2'-6"

PD-1736-0 7-1-10

USER NAME = dheberling	DESIGNED - TJZ	REVISED
	DRAWN - DLH	REVISED
PLOT SCALE = 0.1/0.000 1' / IN.	CHECKED - SDS	REVISED
PLOT DATE = 11/14/2011	DATE - 8/25/11	REVISED

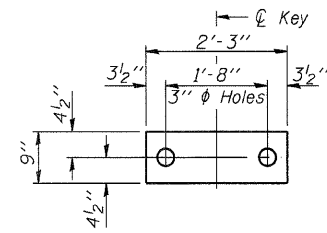


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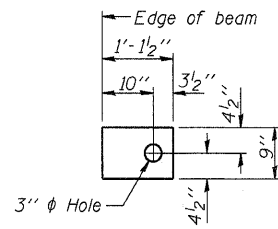
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS
TR 216 OVER BUCKHART CREEK
SCALE: SHEET NO. 2 OF 9 SHEETS

F.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	6
S.N. - 011-3418		CONTRACT	93559	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



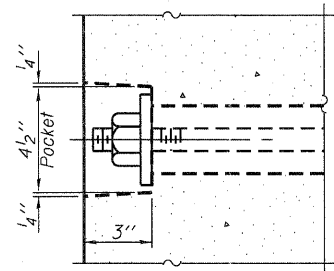
FABRIC BEARING PAD
(Interior)



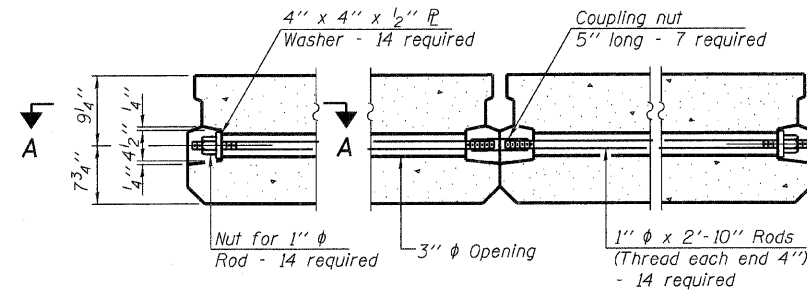
FABRIC BEARING PAD
(Exterior)

FIXED

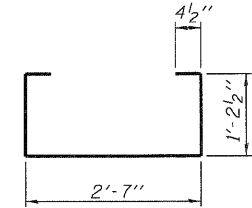
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



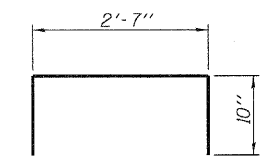
SECTION A-A



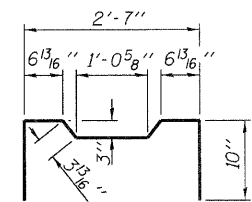
TYPICAL TRANSVERSE TIE ASSEMBLY



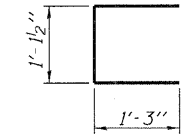
BAR S(E)



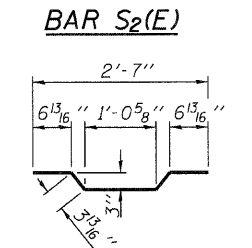
BAR S1(E)



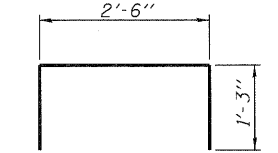
BAR U(E)



BAR U1(E)

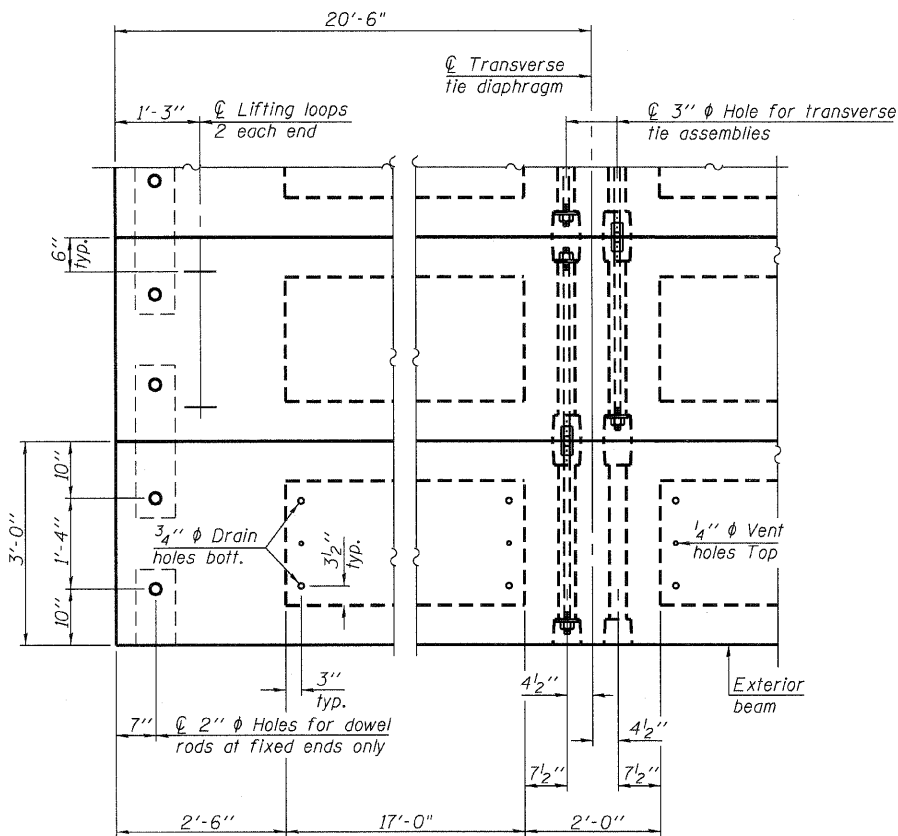


BAR S2(E)



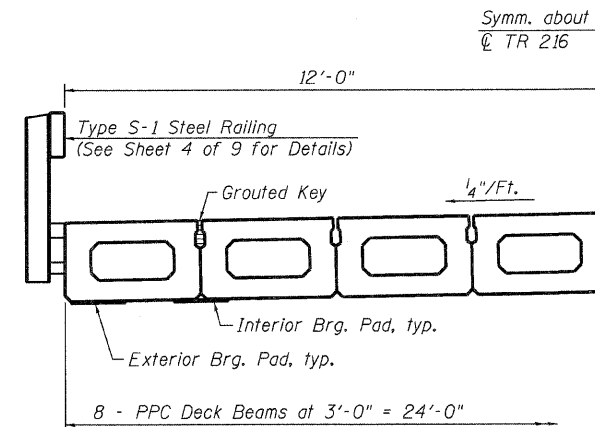
BAR U2(E)

BAR A1(E)



PLAN VIEW

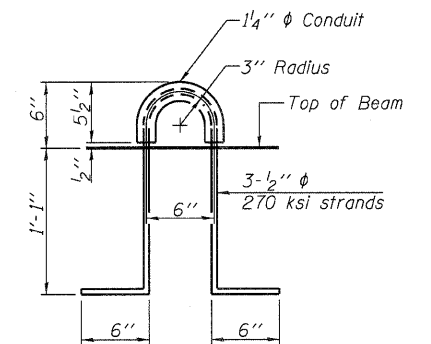
Note: Connect beams in pairs with the transverse tie configuration shown.



HALF CROSS SECTION

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 A 706, 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" phi lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 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.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	984
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FILENAME: it:\jobs\christiancounty\7166 tr 126 over buckhart creek\cadd\cadd sheets\0113418-000000.dgn

PD-1736-OD 7-1-10

USER NAME = dheberling	DESIGNED - TJZ	REVISED
	DRAWN - DLH	REVISED
PLOT SCALE = 0.1/0.000 1/4" = 1"	CHECKED - SDS	REVISED
PLOT DATE = 11/14/2011	DATE - 8/25/11	REVISED

WHKS & CO.
ENGINEERING

7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

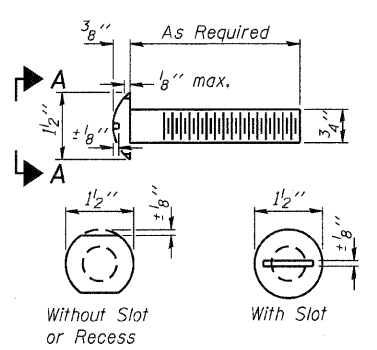
SUPERSTRUCTURE DETAILS

TR 216 OVER BUCKHART CREEK

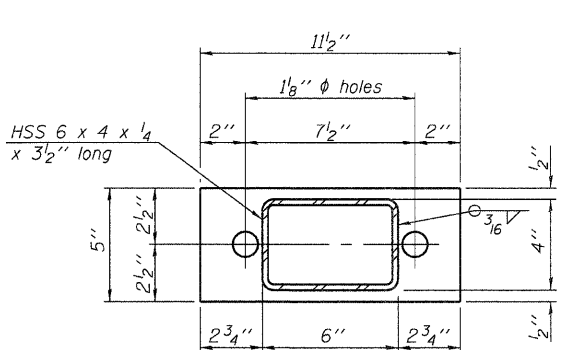
SCALE: SHEET NO. 3 OF 9 SHEETS C STA.

T.R. RTE. 216	SECTION 08-16112-00-BR	COUNTY CHRISTIAN	TOTAL SHEETS 26	SHEET NO. 7
S.N. - 011-3418		CONTRACT		93559
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

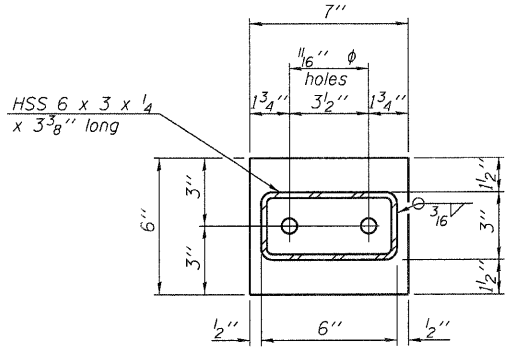
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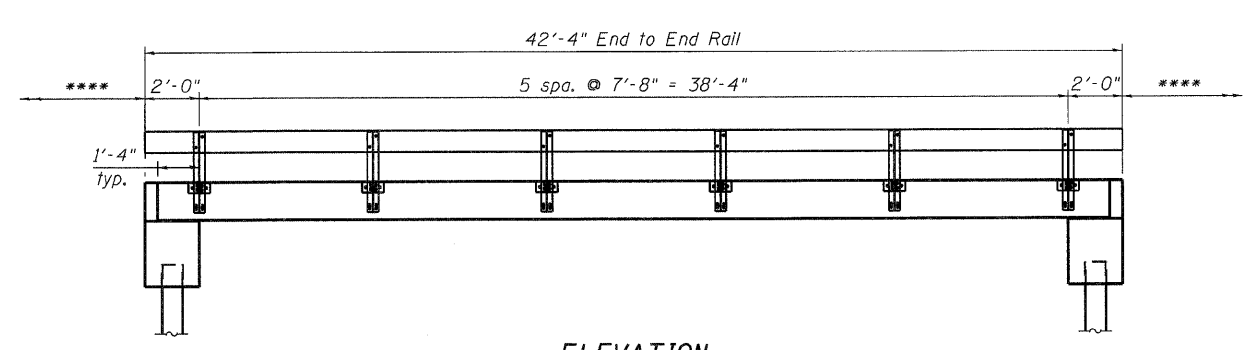
**VIEW A-A
ROUND HEAD BOLT**



SECTION AT RAILING POST



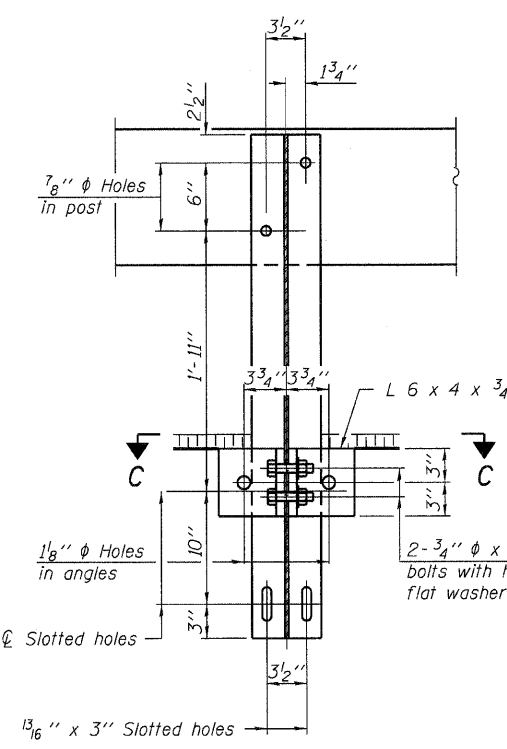
SECTION AT RAIL SPICE



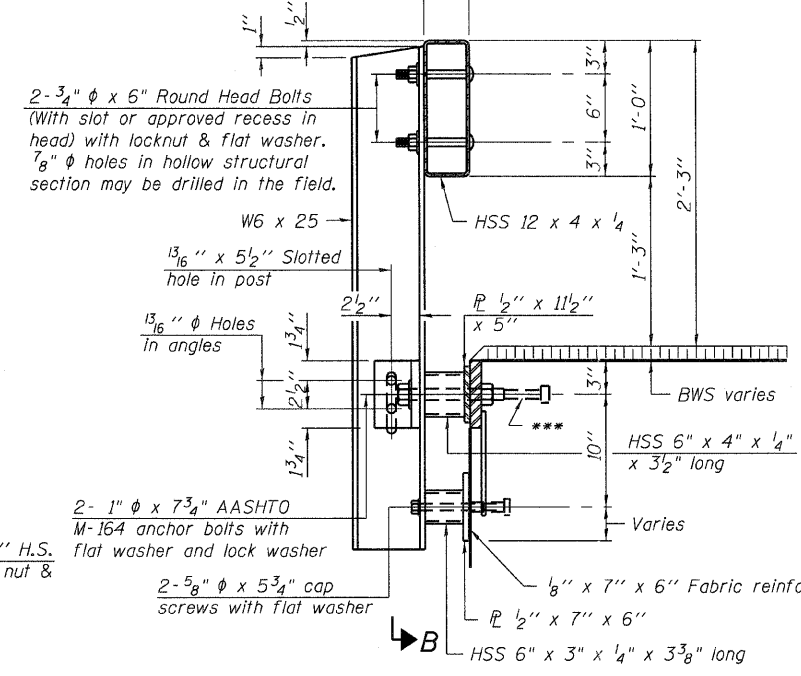
ELEVATION

**** Traffic Barrier Terminal Type 5A or Curled End Section See sheet 1 of 9 for locations.

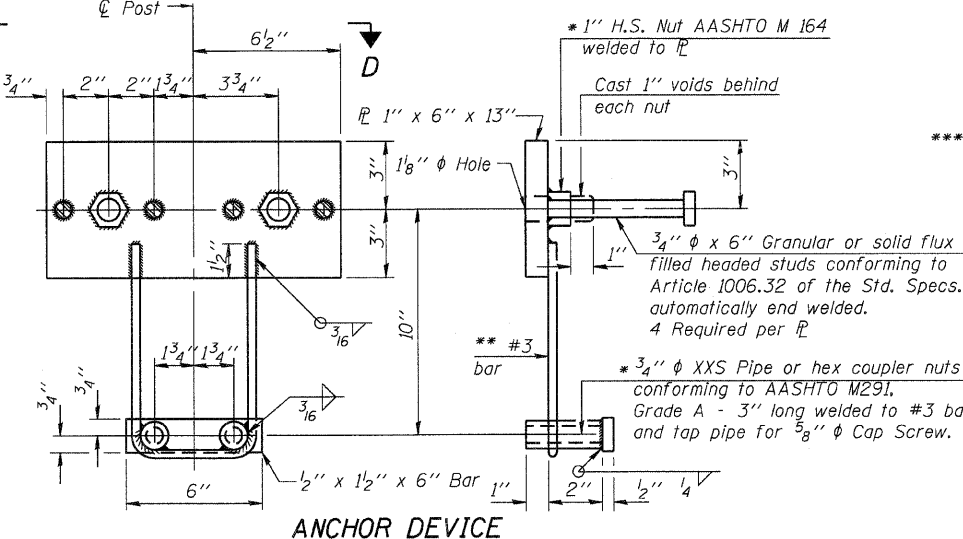
Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.
 All steel rail elements shall 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.



SECTION B-B

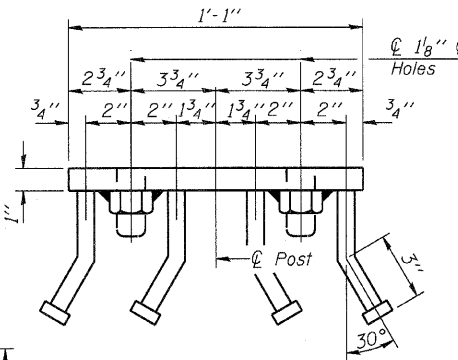


SECTION C-C



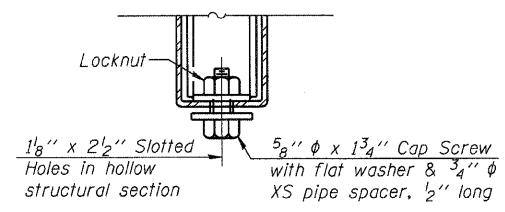
ANCHOR DEVICE

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

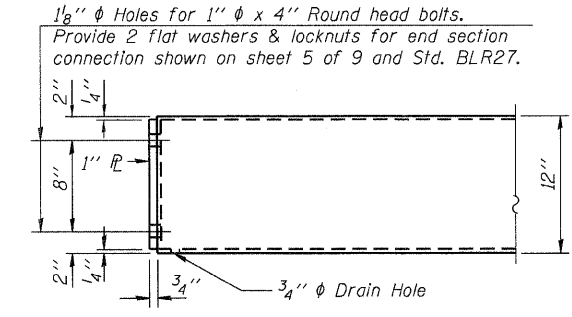


VIEW D-D

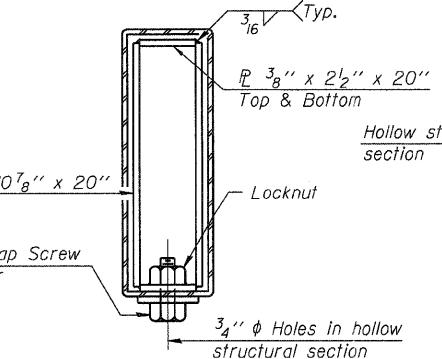
** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".



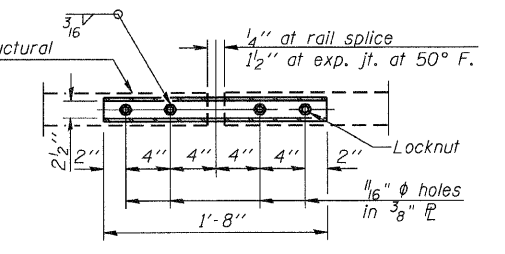
RAIL SPlice CONNECTION AT EXPANSION JT.



END OF RAIL DETAILS



SECTIONS AT RAIL SPICE



PLAN-BOTT. SPlice TYPICAL

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	85

USER NAME = dheberling	DESIGNED - TJZ	REVISED
	DRAWN - DLH	REVISED
PLOT SCALE = 0.10000' / IN.	CHECKED - SDS	REVISED
PLOT DATE = 11/14/2011	DATE - 8/25/11	REVISED

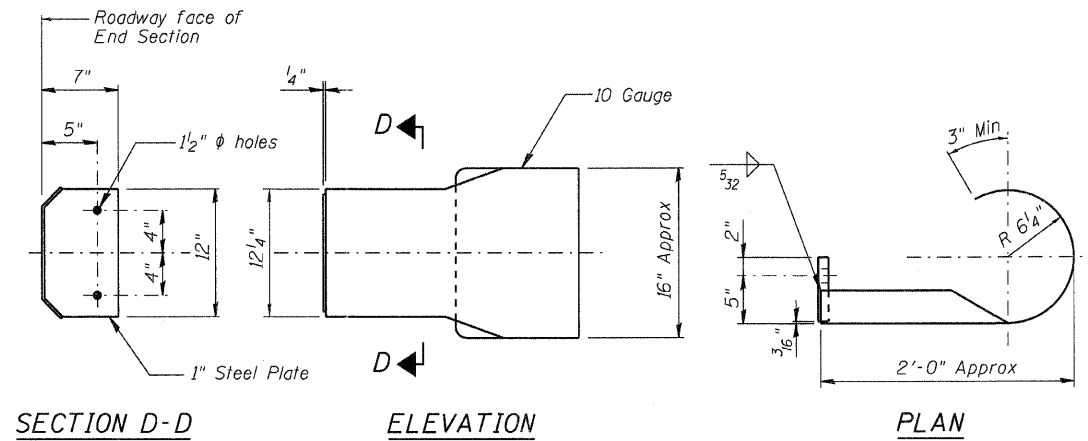
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 SPRINGFIELD, IL
 (217) 483-9457
 DESIGN FIRM #184001036

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STEEL RAILING, TYPE S-1	
TR 216 OVER BUCKHART CREEK	
SCALE:	€ STA.
SHEET NO. 4 OF 9 SHEETS	

T.R. RTE. 216	SECTION 08-16112-00-BR	COUNTY CHRISTIAN	TOTAL SHEETS 26	SHEET NO. 8
S.N. - 011-3418		CONTRACT 93559		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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DETAILS OF CURLED END SECTION

(Cost included with Steel Railing, Type S-1)
No. required = 2

USER NAME - dheberling	DESIGNED - TJZ	REVISED
	DRAWN - DLH	REVISED
PLOT SCALE = 0.10000 '1' / IN.	CHECKED - SDS	REVISED
PLOT DATE = 11/14/2011	DATE - 8/25/11	REVISED



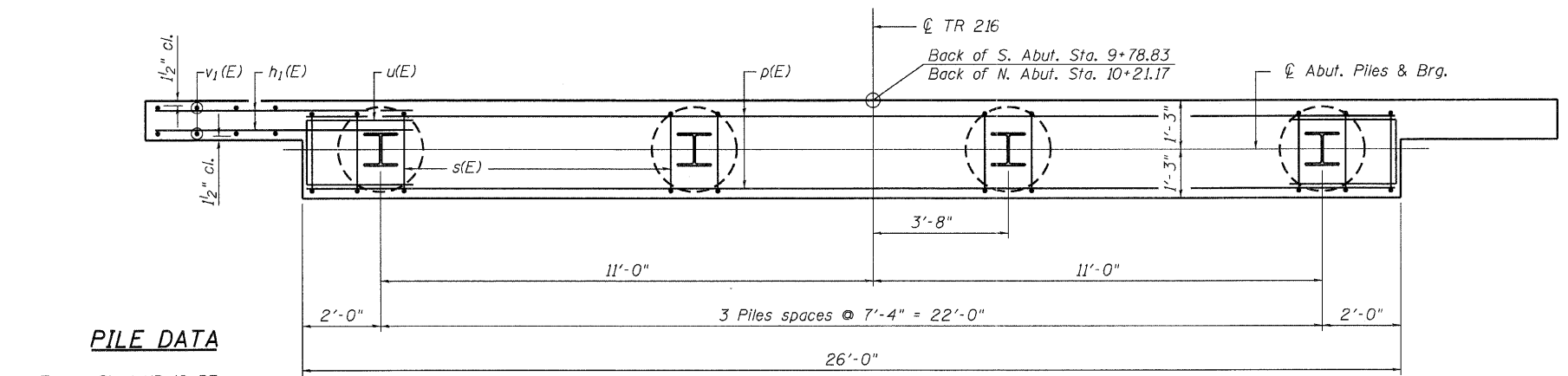
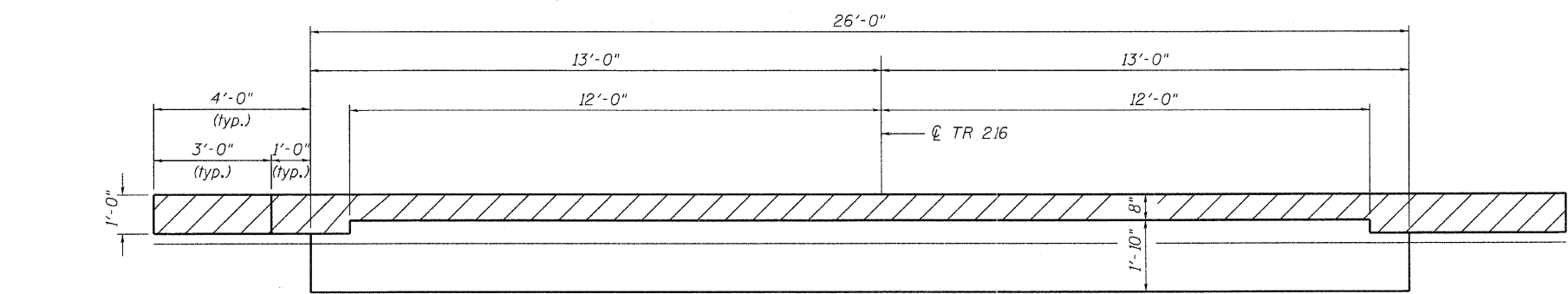
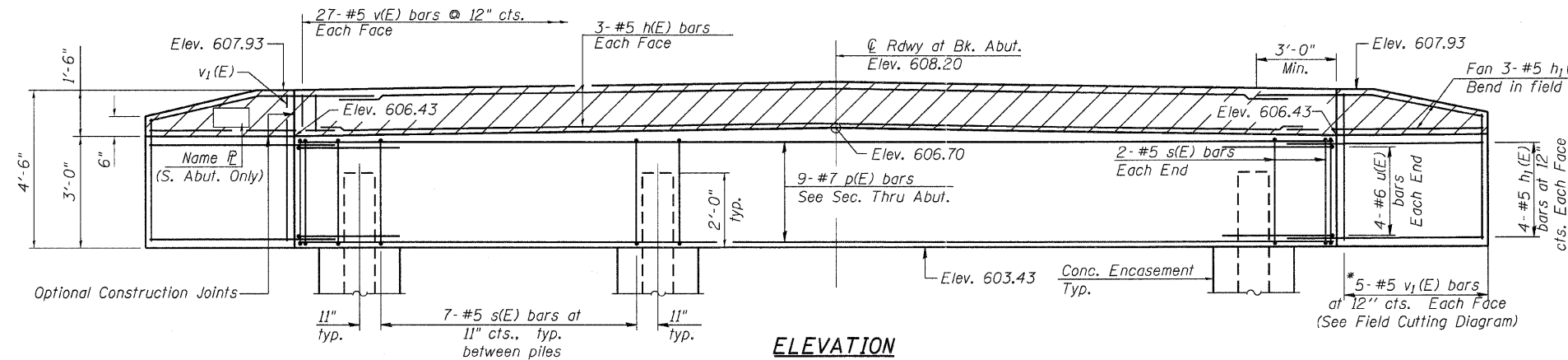
7018 KINGSMILL CT.,
SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RAIL TERMINAL DETAILS	
TR 216 OVER BUCKHART CREEK	
SCALE:	§ STA.
SHEET NO. 5 OF 9 SHEETS	

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	9
S.N. - 011-3418			CONTRACT	9359
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

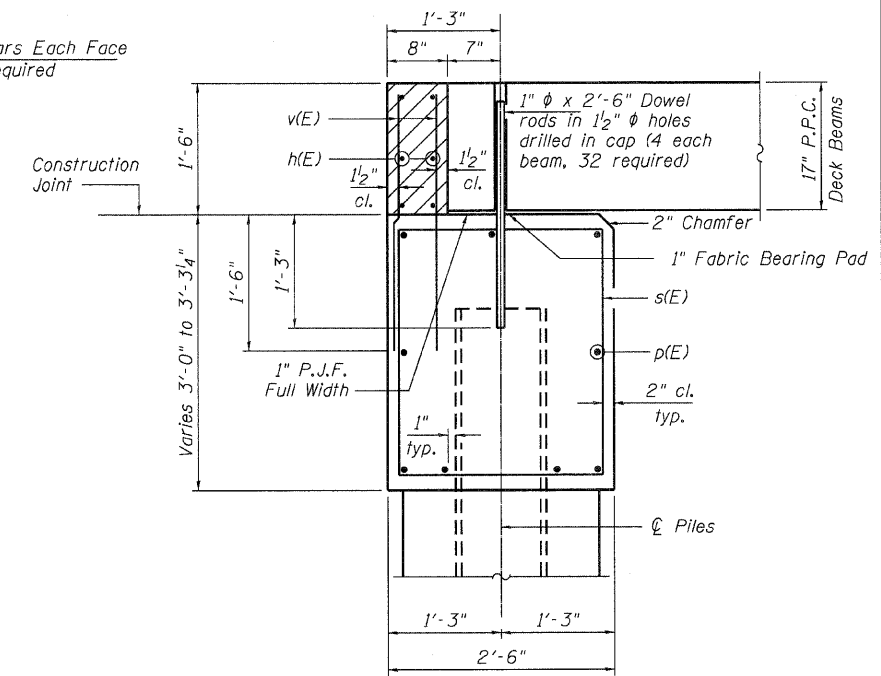
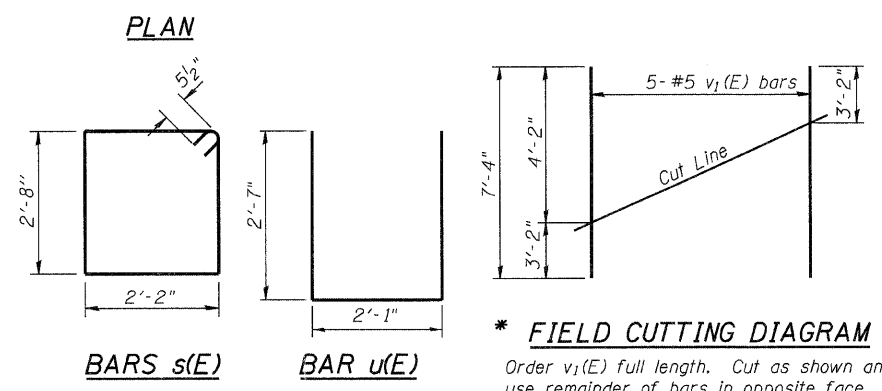
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PILE DATA

Type: Steel HP 12x53
 Nominal Required Bearing: 220 kips
 Factored Resistance Available: 110 kips
 Est. Length: 47 ft. (S. Abut.), 40 ft. (N. Abut.)
 No. Production Piles: 7
 * No. Test Piles: 1 (S. Abut.), 0 (N. Abut.)

* TEST PILES DRIVEN TO 110% N.R.B. IN PRODUCTION LOCATION

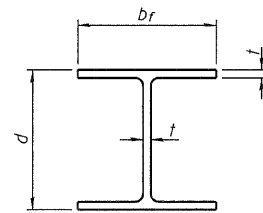


NOTES

The hatched area shall be poured after the beams are in place. The backwall shall be cast against the beams.
 Dowel rods to be grouted after beams are in place and allowed to cure (Min. 24 hrs.) prior to grouting the shear keys. Cost shall be included in the cost of Precast Prestressed Concrete Deck Beams (17" Depth).
 If pile interferes with dowel embedment, reduce dowel embedment depth so dowel is at the top of the pile (min. embedment = 1'-0")

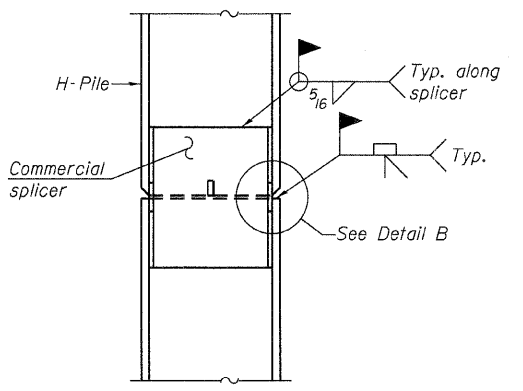
**BILL OF MATERIAL
TWO ABUTMENTS**

Bar	No.	Size	Length	Shape
h(E)	12	#5	25'-9"	—
h1(E)	56	#5	7'-0"	—
p(E)	18	#7	25'-9"	—
s(E)	50	#5	10'-7"	□
u(E)	16	#6	7'-3"	⊏
v(E)	108	#5	2'-10"	—
v1(E)	20	#5	7'-4"	—
Structure Excavation	Cu. Yd.	82		
Concrete Structures	Cu. Yd.	19.5		
Concrete Encasement	Cu. Yd.	2.8		
Reinforcement Bars, Epoxy Coated	Pound	2,880		
Furnishing Steel Piles, HP 12x53	Foot	301		
Driving Steel Piles	Foot	301		
Test Pile, HP 12x53	Each	1		

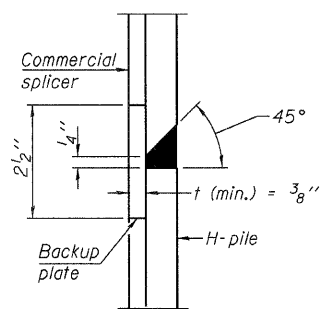


STEEL PILE TABLE

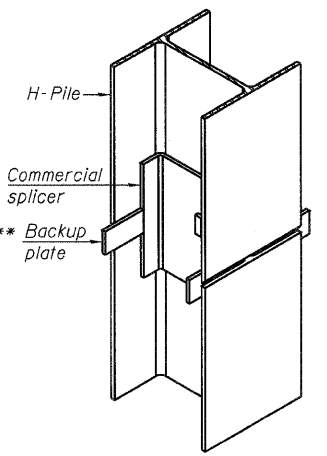
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

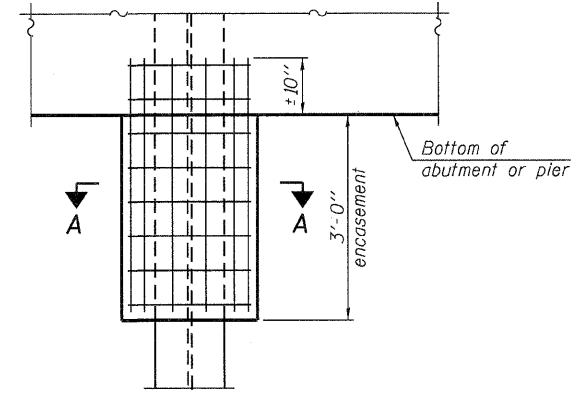


DETAIL "B"



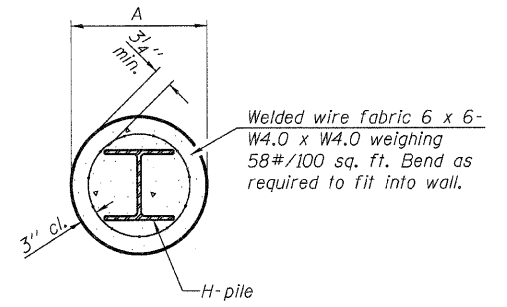
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



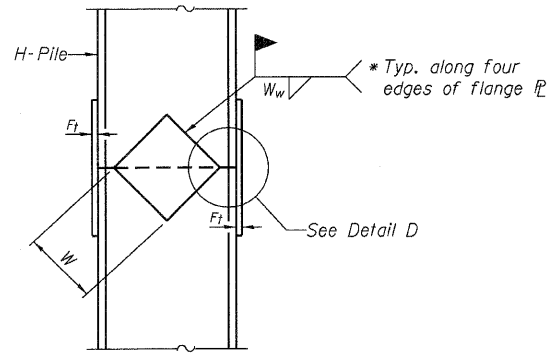
ELEVATION

PILE ENCASEMENT

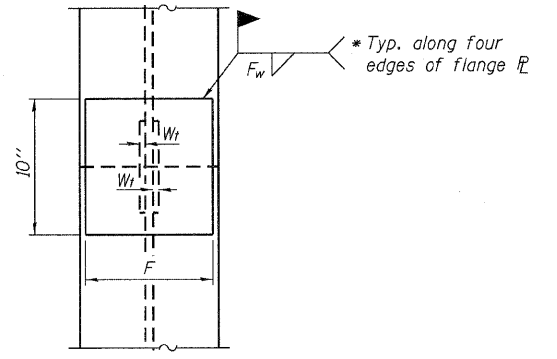


SECTION A-A

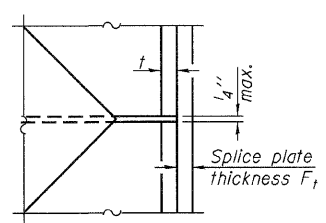
Note: Forms for encasement may be omitted when soil conditions permit.



ELEVATION



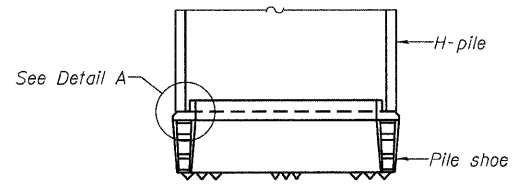
END VIEW



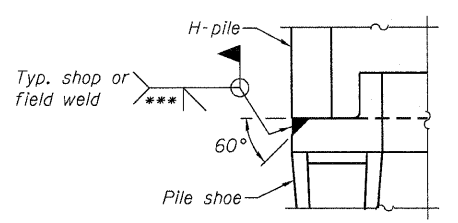
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

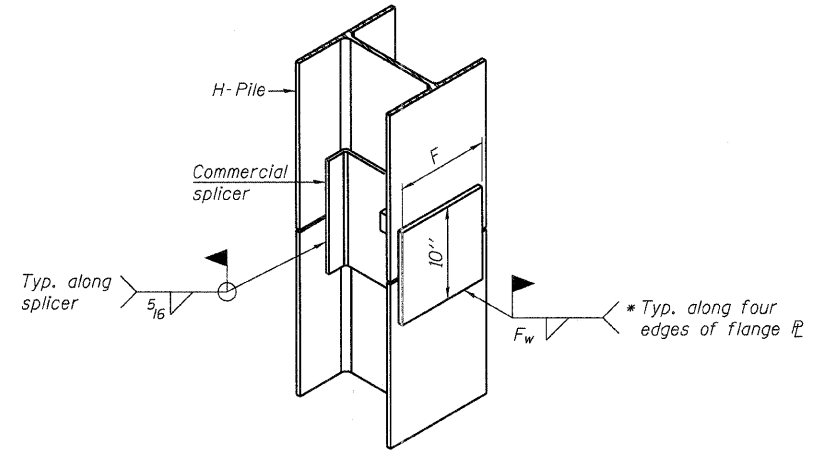


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

Note: The steel H-piles shall be according to AASHTO M270 Grade 50.

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F-HP		
DESIGNED - TJZ	REVISIONS	
DRAWN - DLH	REVISIONS	
CHECKED - SDS	REVISIONS	
DATE - 8/25/11	REVISIONS	

WHKS & CO. ENGINEERING
 7018 KINGSMILL CT., SPRINGFIELD, IL (217) 483-9457
 DESIGN FIRM #184001036

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

STEEL H-PILE DETAILS
TR 216 OVER BUCKHART CREEK
 SCALE: SHEET NO. 7 OF 9 SHEETS

T.R. RTE. 216	SECTION 08-16112-00-BR	COUNTY CHRISTIAN	TOTAL SHEETS 26	SHEET NO. 11
S.N. - 011-3418		CONTRACT	93559	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

Christian County Bridge
 Stonington Township
 Existing Structure No. 011-3172
 Project #181-2979

ATLAS SOILS, INC.
 HILLSBORO, ILLINOIS
 PHONE 217/532-3959

DATE: October 7, 2009
 BORING TECH.: T. Bradburn
 DRILLING TECH.: M. Hough

FOUNDATION BORING LOG

BORING NO.: 2	N	Qu	W	REC	GROUNDWATER ELEV.	N	Qu	W	REC
Station: 50 ft. N. of Christed "X" in N.W. Wingwall, 8 ft. W of Centerline.	Value	(tsf)	(%)	(%)	COMP.: -7.5 ft; Bridge @ -21.5 ft.	Value	(tsf)	(%)	(%)
SURFACE ELEV.: 606.2 ft.					AFTER 1.5 HRS.: -5.5 ft.; Bridge at -20.8 ft.				
SILTY CLAY (CL), Dark Brown, Moist, Stiff	0					20			
		BS			SILT (ML), Gray, Dry to Moist, Stiff		S		
	7	2.63	20.4	80		22	1.01	20.6	95
		P			LOAM, Brown, Moist, Medium Stiff				
	5	1.50	24.8	85		25	6	NP	12.3
		P			SAND (SP), Brown, Saturated, Very Dense, Very Fine to Medium Coarse, Trace of Fines		97	NP	-
CLAY (CL), Gray, Reddish-Brown, Mottled, Moist, Medium Stiff	3	1.25	27.3	95					
		B			SILTY LOAM TILL (ML), Gray, Dry to Moist, Hard, Trace of Sand		S		
CLAY LOAM (CL), Gray, Wet, Soft	10	2	0.73	21.7	100	30	59	4.85	6.5
		BS							
	5	1.70	18.6	75					
		P			SILTY CLAY TILL (CL), Gray, Dry to Moist, Hard, Trace of Sand				
SANDY LOAM (SP), Gray, Saturated, Very Loose	15	2	NP	-	100	35	42	>6.45	12.4
		B							
	16	4.65	10.3	100					
					SILTY LOAM (ML), Gray, Dry to Moist, Hard		S		
	20	21	>6.45	9.9	90	40	52	3.85	16.2

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler 12" with 140 lb. Hammer falling 30" (Standard Penetration Test)
 RQD: Rock Quality Determination

Qu: Unconfined Compression Strength
 NP: Non-Plastic
 ST: Shelby Tube
 W: Water Content

Type Failure:
 B: Bulge Failure
 S: Shear Failure
 NS: No Sample
 P: Penetrometer

Christian County Bridge
 Stonington Township
 Existing Structure No. 011-3172
 Project #181-2979

ATLAS SOILS, INC.
 HILLSBORO, ILLINOIS
 PHONE 217/532-3959

DATE: October 7, 2009
 BORING TECH.: T. Bradburn
 DRILLING TECH.: M. Hough

FOUNDATION BORING LOG

BORING NO.: 2	N	Qu	W	REC	GROUNDWATER ELEV.	N	Qu	W	REC
Station: 50 ft. N. of Christed "X" in N.W. Wingwall, 8 ft. W of Centerline.	Value	(tsf)	(%)	(%)	COMP.: -7.5 ft; Bridge @ -21.5 ft.	Value	(tsf)	(%)	(%)
SURFACE ELEV.: 606.2 ft.					AFTER 1.5 HRS.: -5.5 ft.; Bridge at -20.8 ft.				
SILTY LOAM (ML), Gray, Dry to Moist, Hard	40					60			
		P							
	45	12	2.22	35.7	100	65			
		B							
	50	36	>6.45	25.8	100	70			
	55					75			
	60					80			

N: Blows per ft. to Drive 2" O.D. Split Spoon Sampler 12" with 140 lb. Hammer falling 30" (Standard Penetration Test)
 RQD: Rock Quality Determination

Qu: Unconfined Compression Strength
 NP: Non-Plastic
 ST: Shelby Tube
 W: Water Content

Type Failure:
 B: Bulge Failure
 S: Shear Failure
 NS: No Sample
 P: Penetrometer

BORING LOGS

TR 216 OVER BUCKHART CREEK

SCALE: SHEET NO. 9 OF 9 SHEETS C STA.

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	13
S.N. - 011-3418			CONTRACT	9359
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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	DRAWN - DLH	REVISED
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PLOT DATE = 11/14/2011	DATE - 8/25/11	REVISED

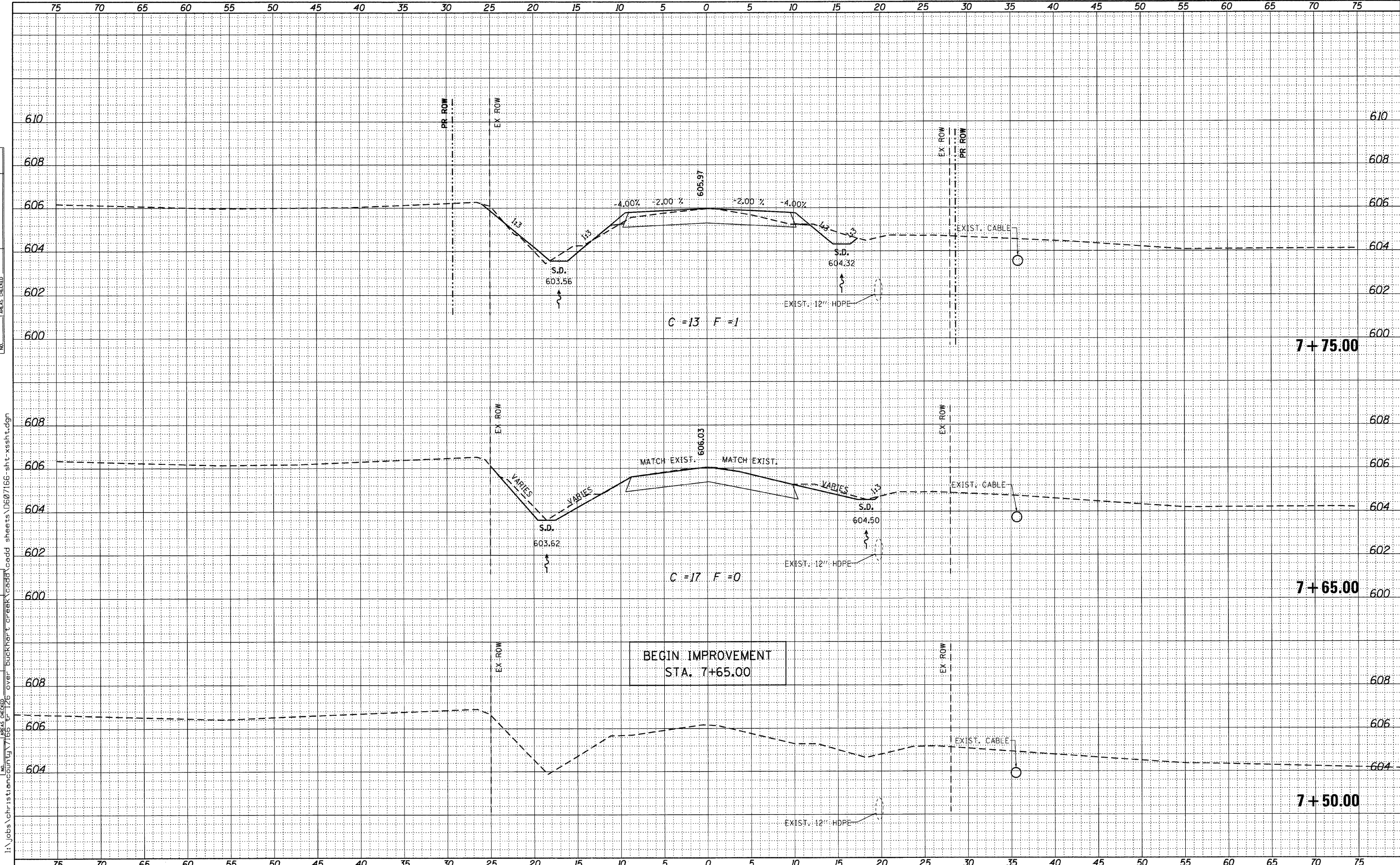
WHKS & CO.
 ENGINEERING

7018 KINGSMILL CT.,
 SPRINGFIELD, IL
 (217) 483-9457
 DESIGN FIRM #184001036

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DATE	
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SURVEYED	
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NOTE BOOK	
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PLLOT DATE = 11/14/2011	CHECKED - SDS	REVISED
	DATE - 2/22/11	REVISED

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CROSS SECTIONS
TR 216 OVER BUCKHART CREEK

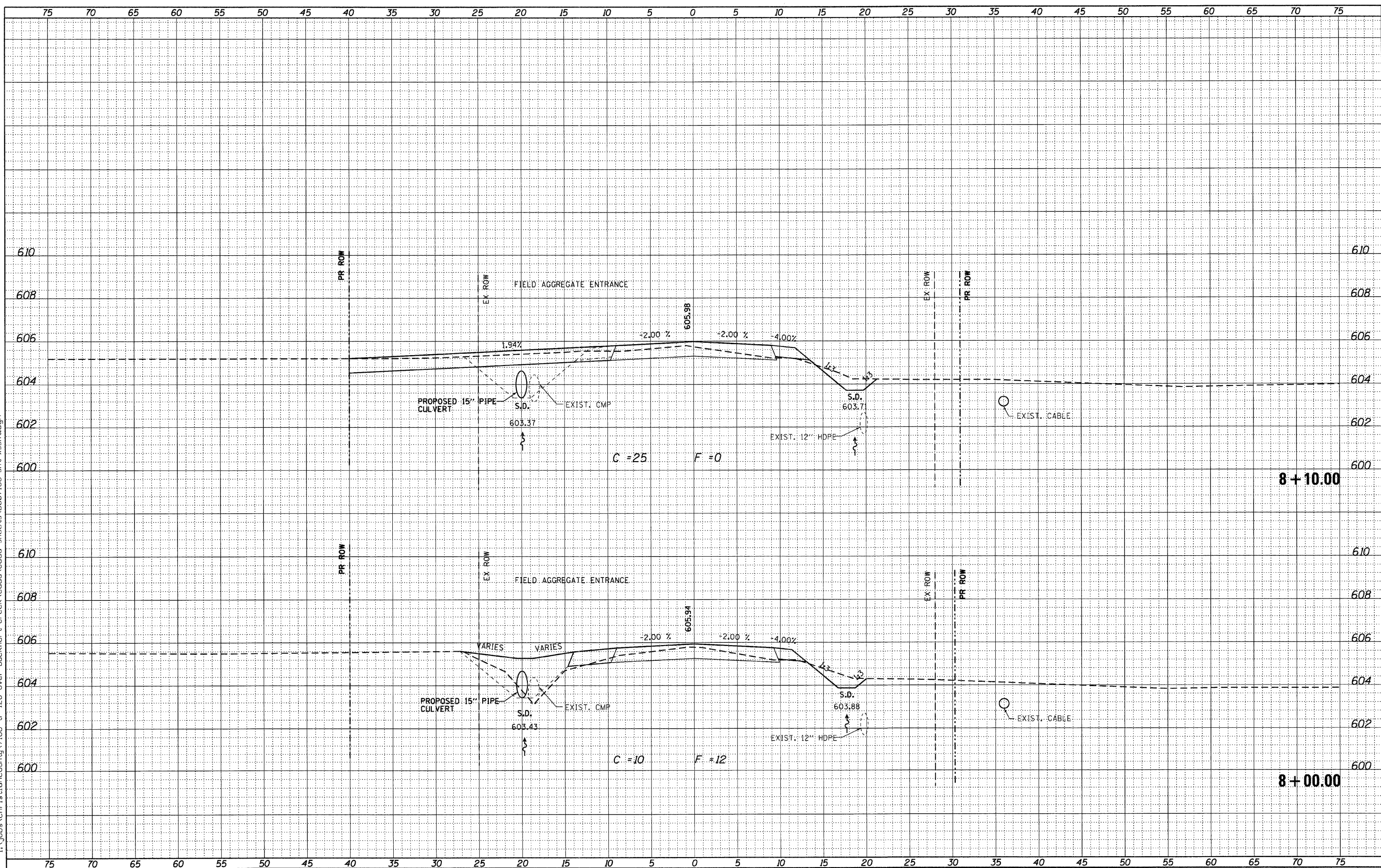
SCALE: SHEET NO. OF SHEETS STA. 7+50.00 TO STA. 7+75.00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	14
			CONTRACT NO. 9359	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
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NOTE BOOK	
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NOTE BOOK	
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USER NAME = dheber1.rtg	DESIGNED - TJZ	REVISED
PLOT SCALE = 5.0000" = 1 IN.	CHECKED - SDS	REVISED
PLOT DATE = 11/14/2011	DATE = 2/22/11	REVISED

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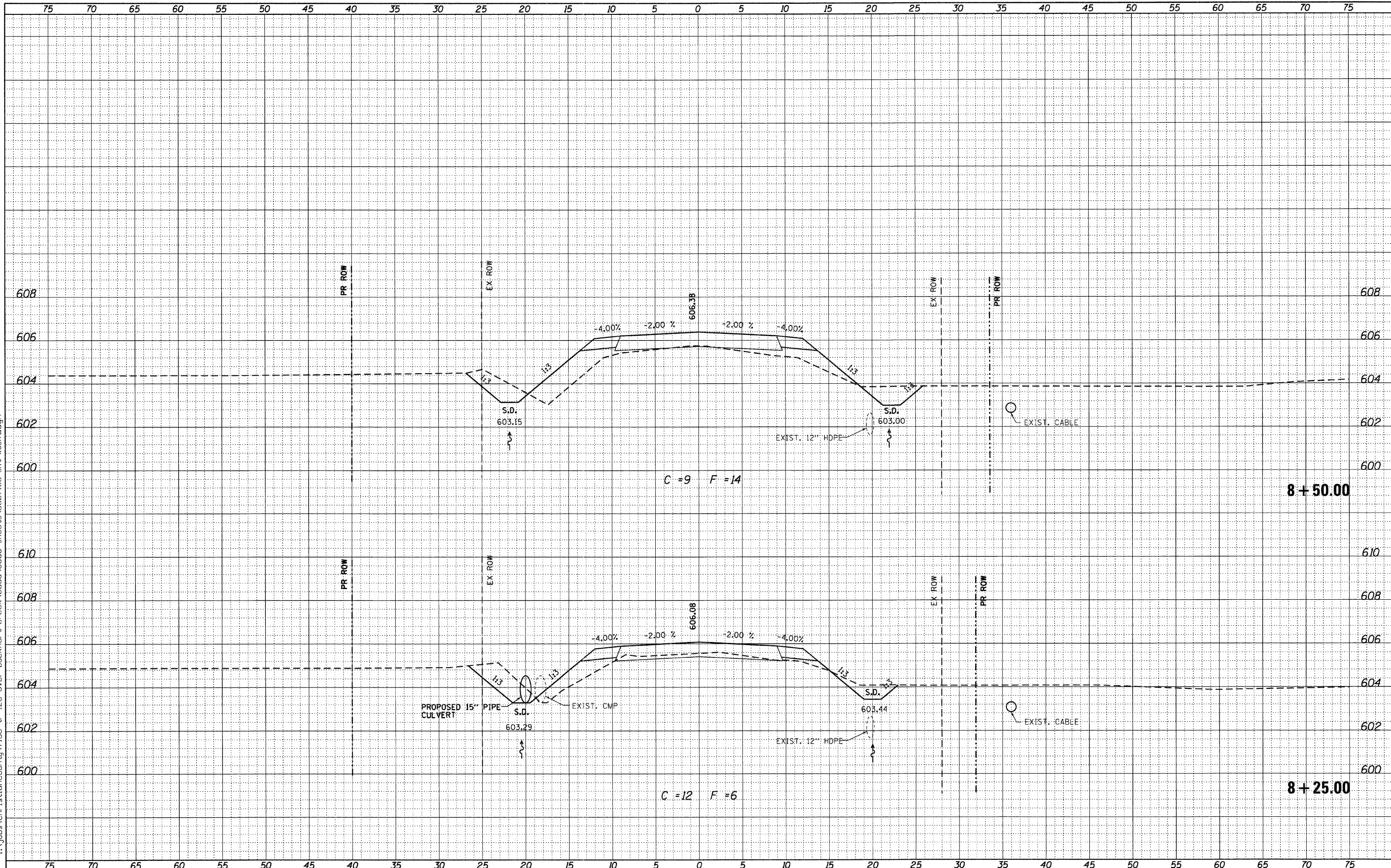
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TR 216 OVER BUCKHART CREEK		216	08-16112-00-BR	CHRISTIAN	26	15
SCALE:		SHEET NO. OF SHEETS		STA. 8+00.00 TO STA. 8+10.00		CONTRACT NO. 93559

ILLINOIS FED. AID PROJECT	
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PLOT DATE = 11/14/2011	CHECKED - SDS	REVISED
	DATE - 2/22/11	REVISED

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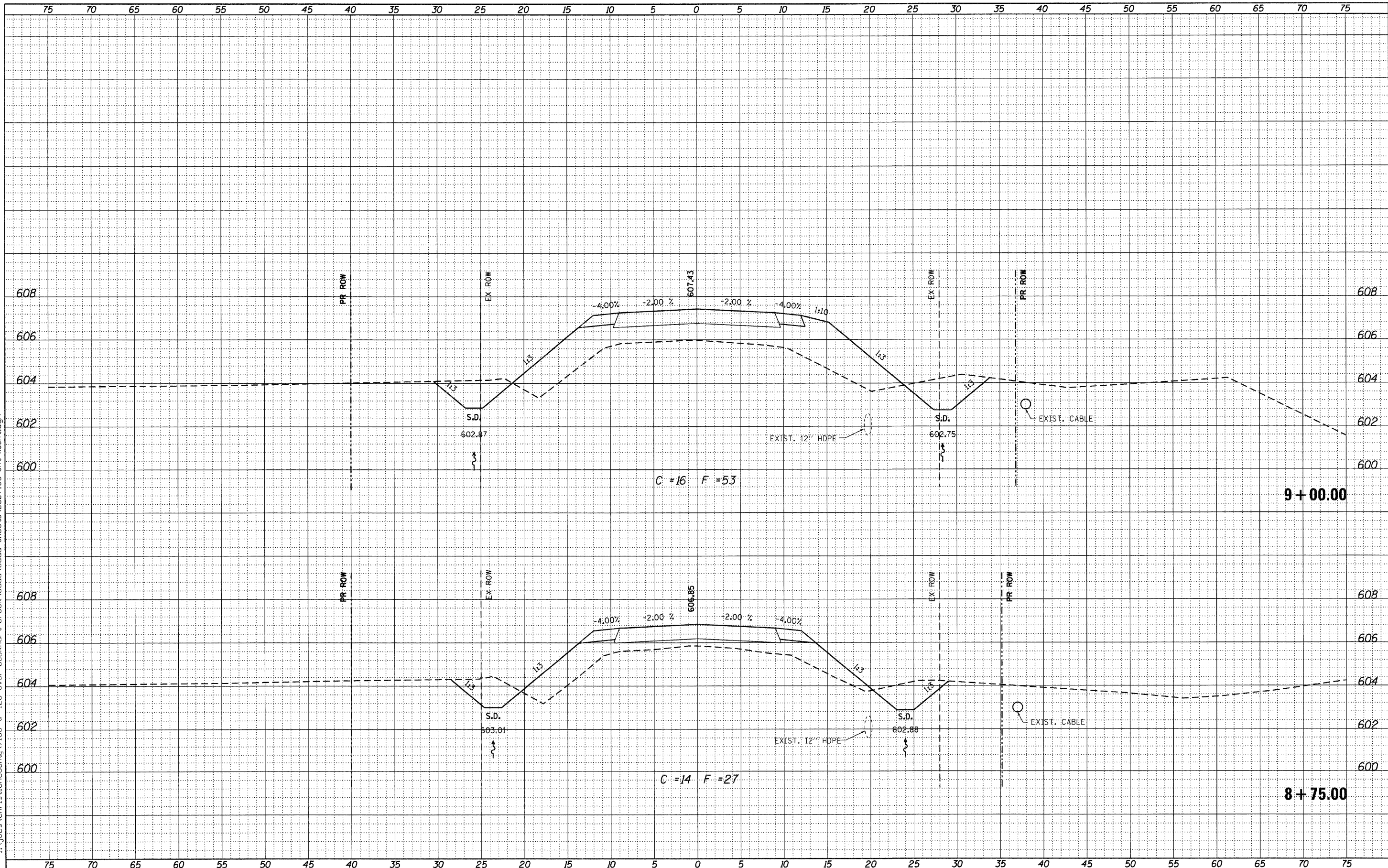
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TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 0359	

DATE	
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FINAL SURVEY	
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PLOT DATE = 11/14/2011	CHECKED - SDS	REVISED
	DATE - 2/22/11	REVISED

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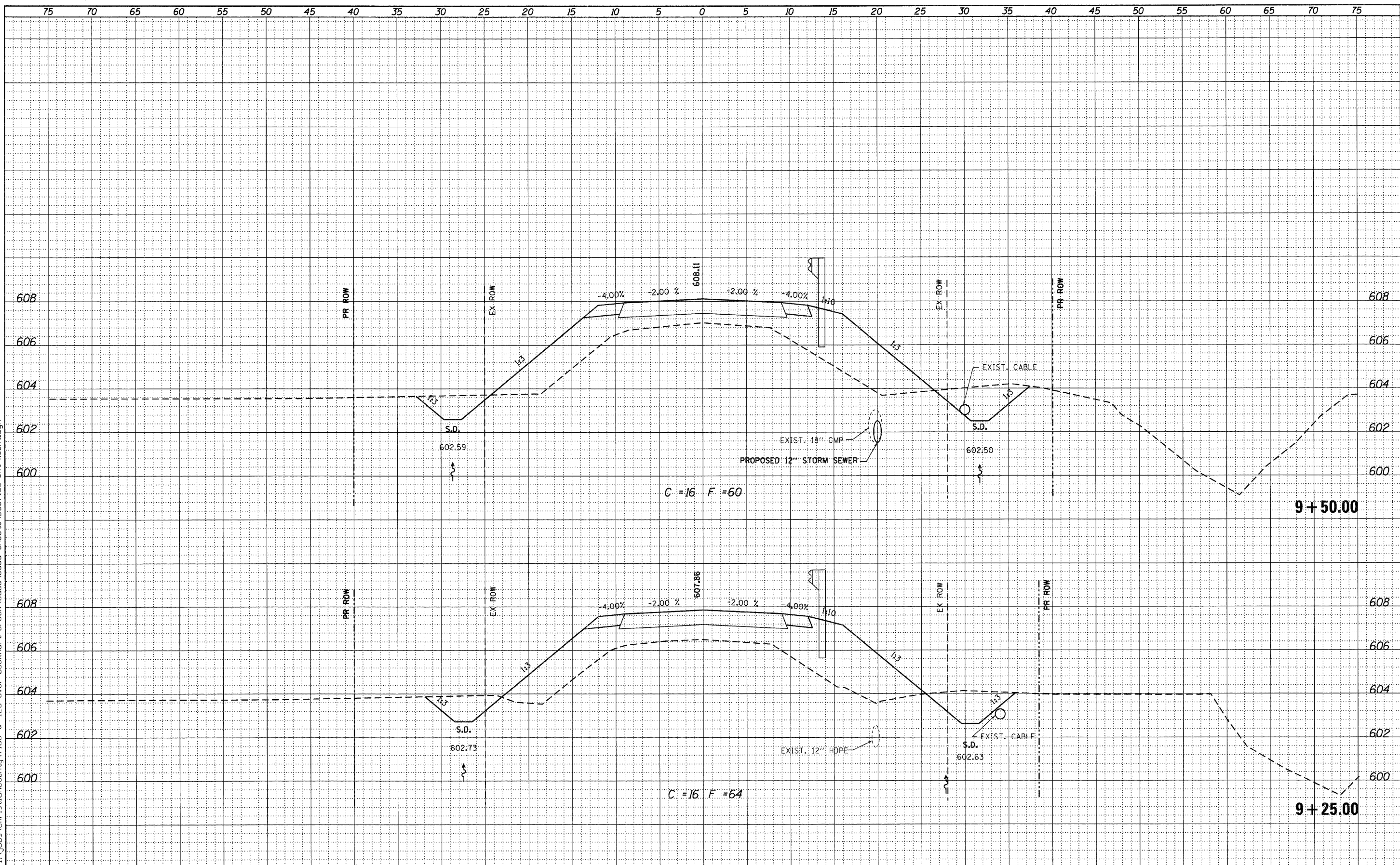
CROSS SECTIONS	
TR 216 OVER BUCKHART CREEK	
SCALE:	SHEET NO. OF SHEETS STA. 8+75.00 TO STA. 9+00.00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	17
CONTRACT NO. 9359			ILLINOIS FED. AID PROJECT	

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PLLOT DATE = 11/14/2011	CHECKED - SDS	REVISED
	DATE - 2/22/11	REVISED

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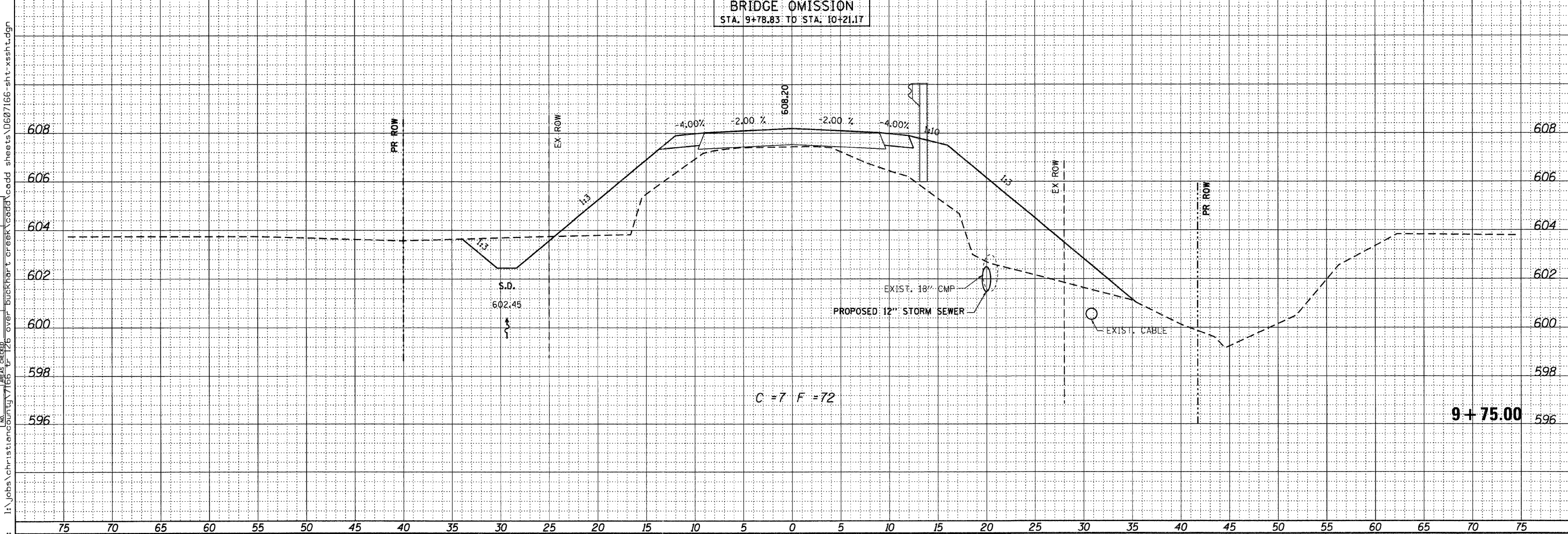
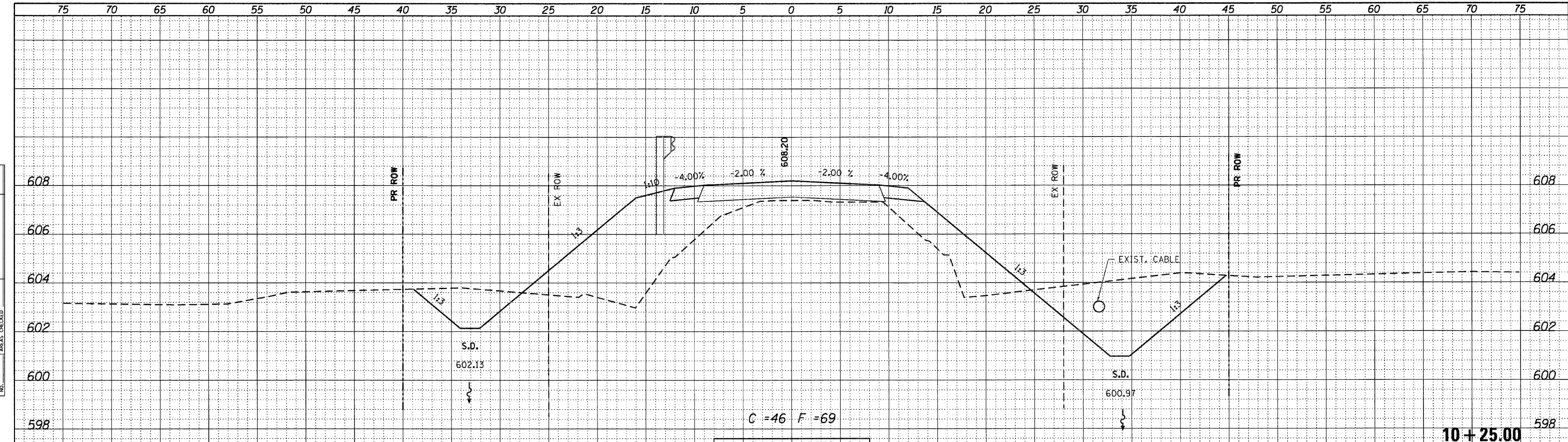
CROSS SECTIONS
TR 216 OVER BUCKHART CREEK

SCALE: SHEET NO. OF SHEETS STA. 9+25.00 TO STA. 9+50.00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	18
CONTRACT NO. 93559			ILLINOIS FED. AID PROJECT	

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USER NAME = dheberling	DESIGNED - TJZ	REVISED
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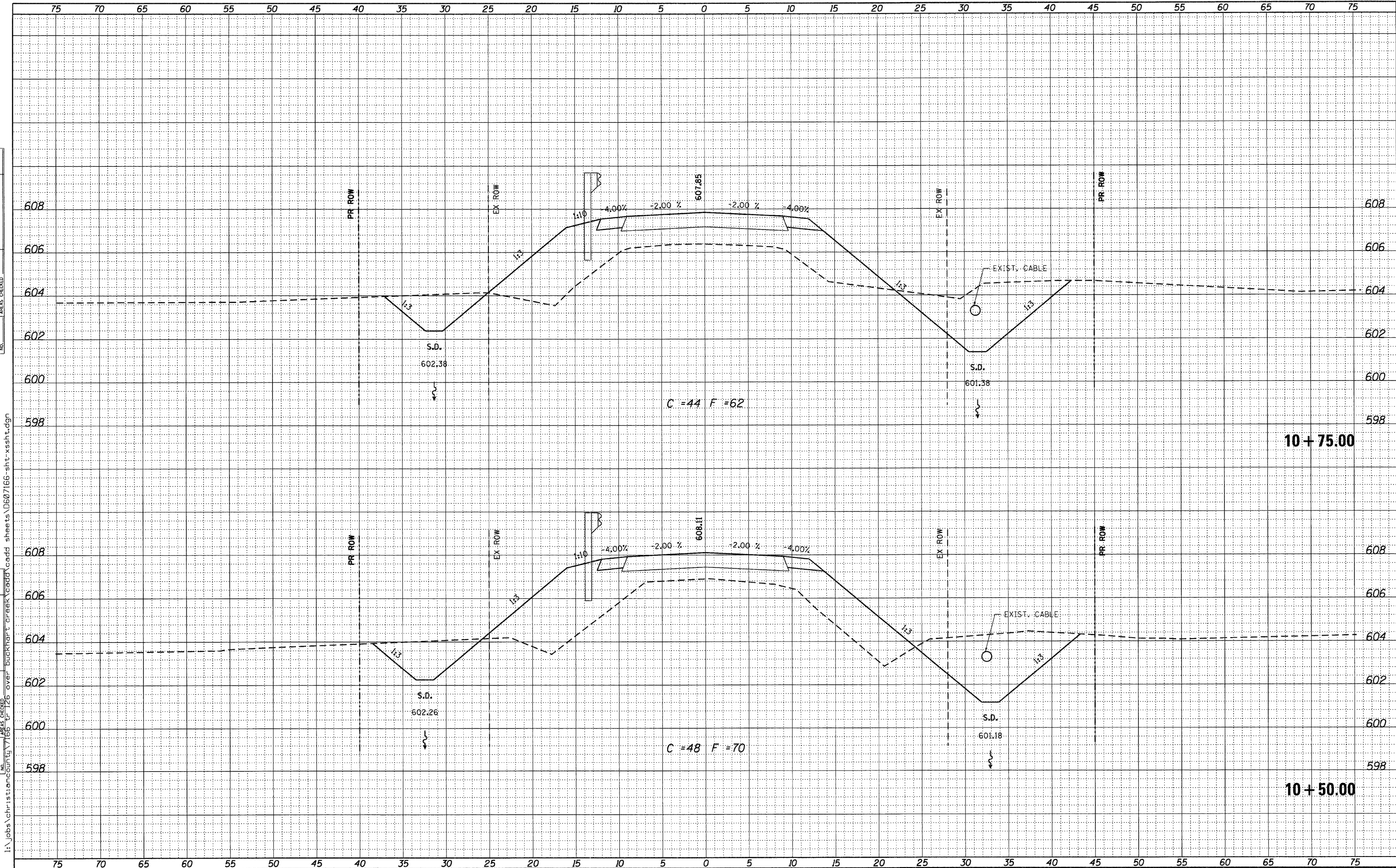
CROSS SECTIONS			
TR 216 OVER BUCKHART CREEK			
SCALE:	SHEET NO.	OF SHEETS	STA. 9+75.00 TO STA. 10+25.00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	19
				CONTRACT NO. 93559
ILLINOIS FED. AID PROJECT				

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USER NAME = dhaberling	DESIGNED - TJZ	REVISED
	DRAWN - DLH	REVISED
	CHECKED - SDS	REVISED
	DATE - 2/22/11	REVISED

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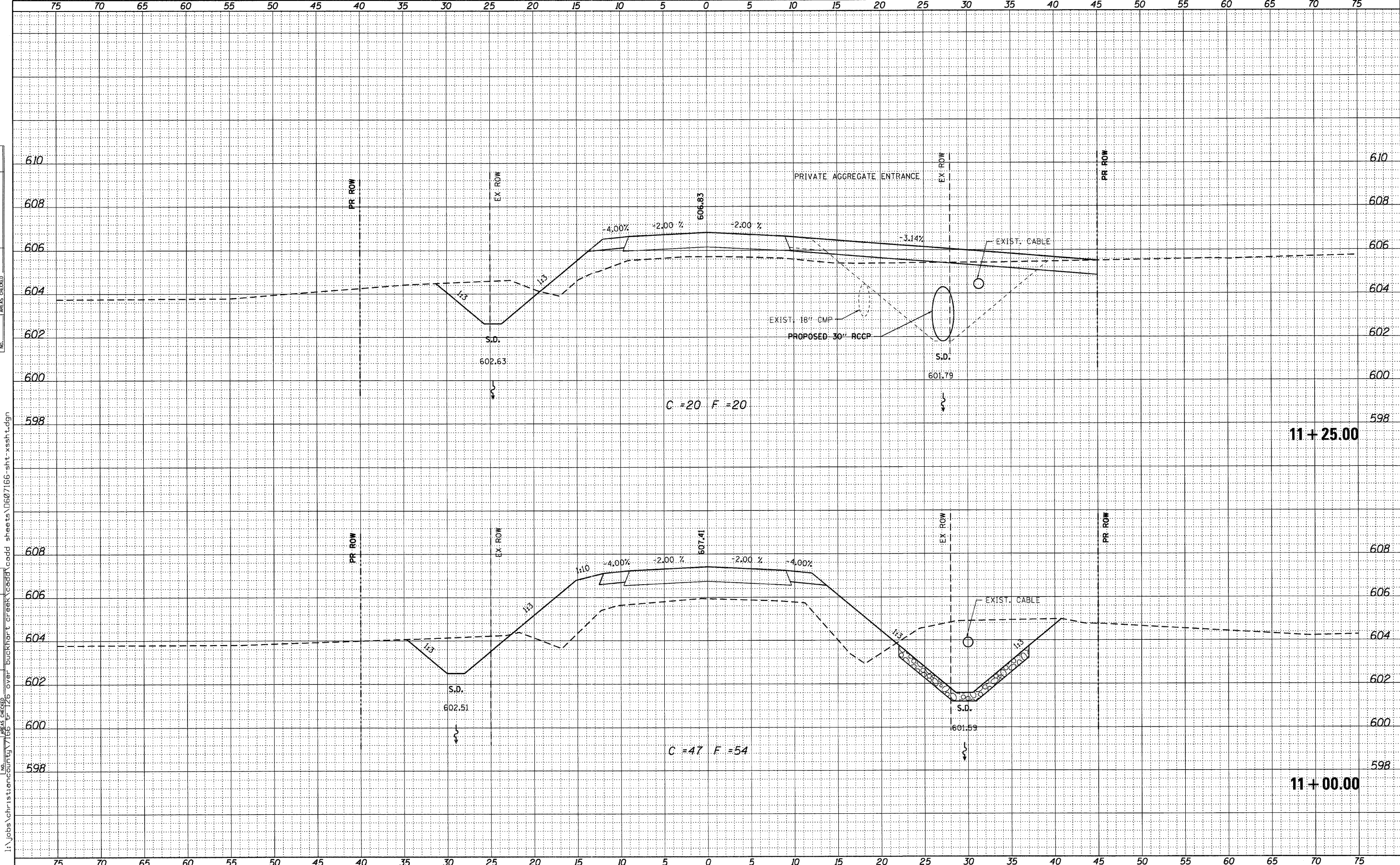
CROSS SECTIONS			
TR 216 OVER BUCKHART CREEK			
SCALE:	SHEET NO.	OF SHEETS	STA. 10+50.00 TO STA. 10+75.00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	20
				CONTRACT NO. 93559
ILLINOIS FED. AID PROJECT				

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USER NAME = dheber.lmg	DESIGNED - TJZ	REVISED
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	CHECKED - SDS	REVISED
	DATE - 2/22/11	REVISED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET NO. OF SHEETS		STA. 11+00.00 TO STA. 11+25.00	
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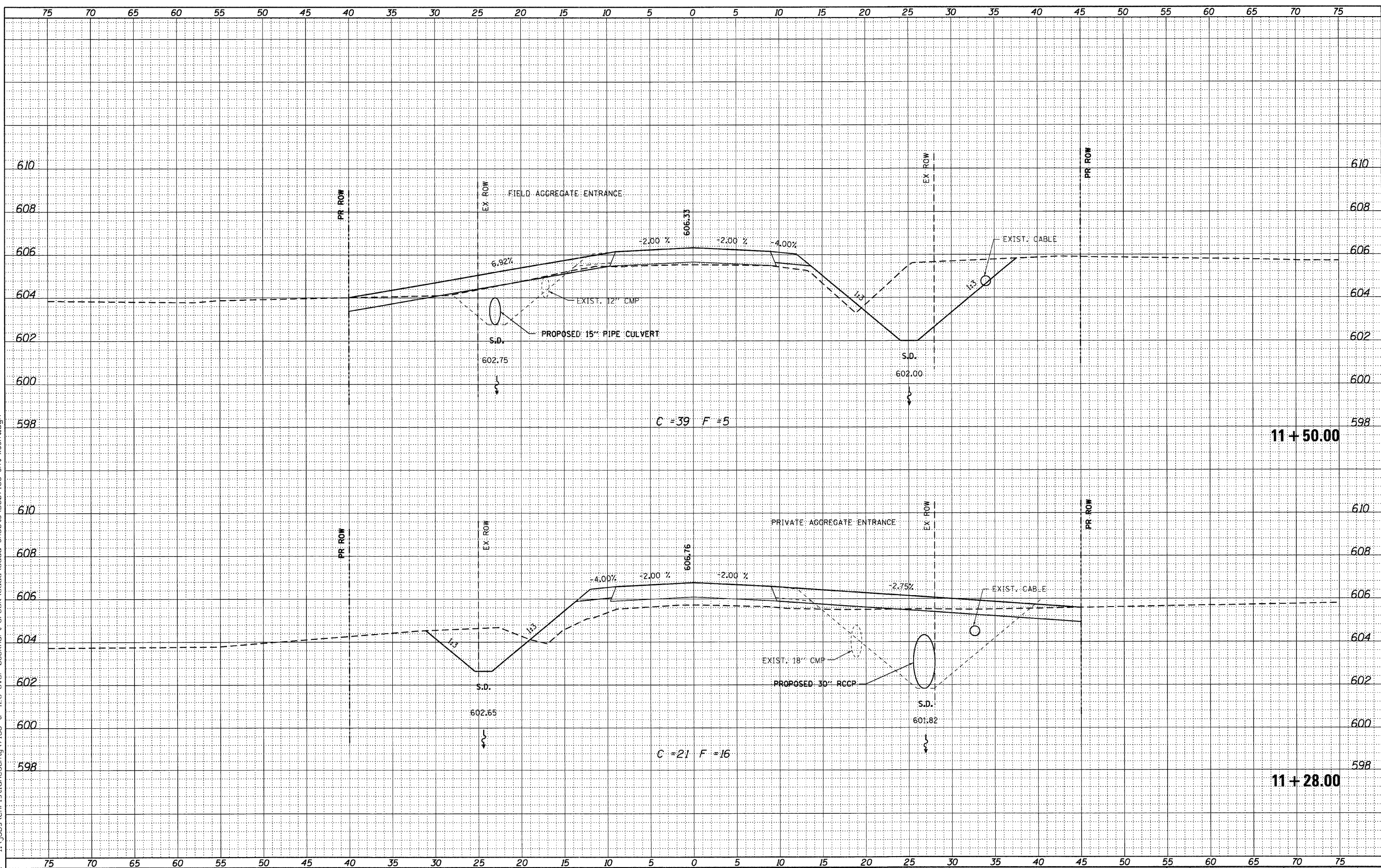
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216	08-16112-00-BR	CHRISTIAN	26	21
CONTRACT NO. 93559				ILLINOIS FED. AID PROJECT

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PLOT SCALE = 5.0000' / IN.	CHECKED - SDS	REVISED
PLOT DATE = 11/14/2011	DATE - 2/22/11	REVISED

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DEPARTMENT OF TRANSPORTATION

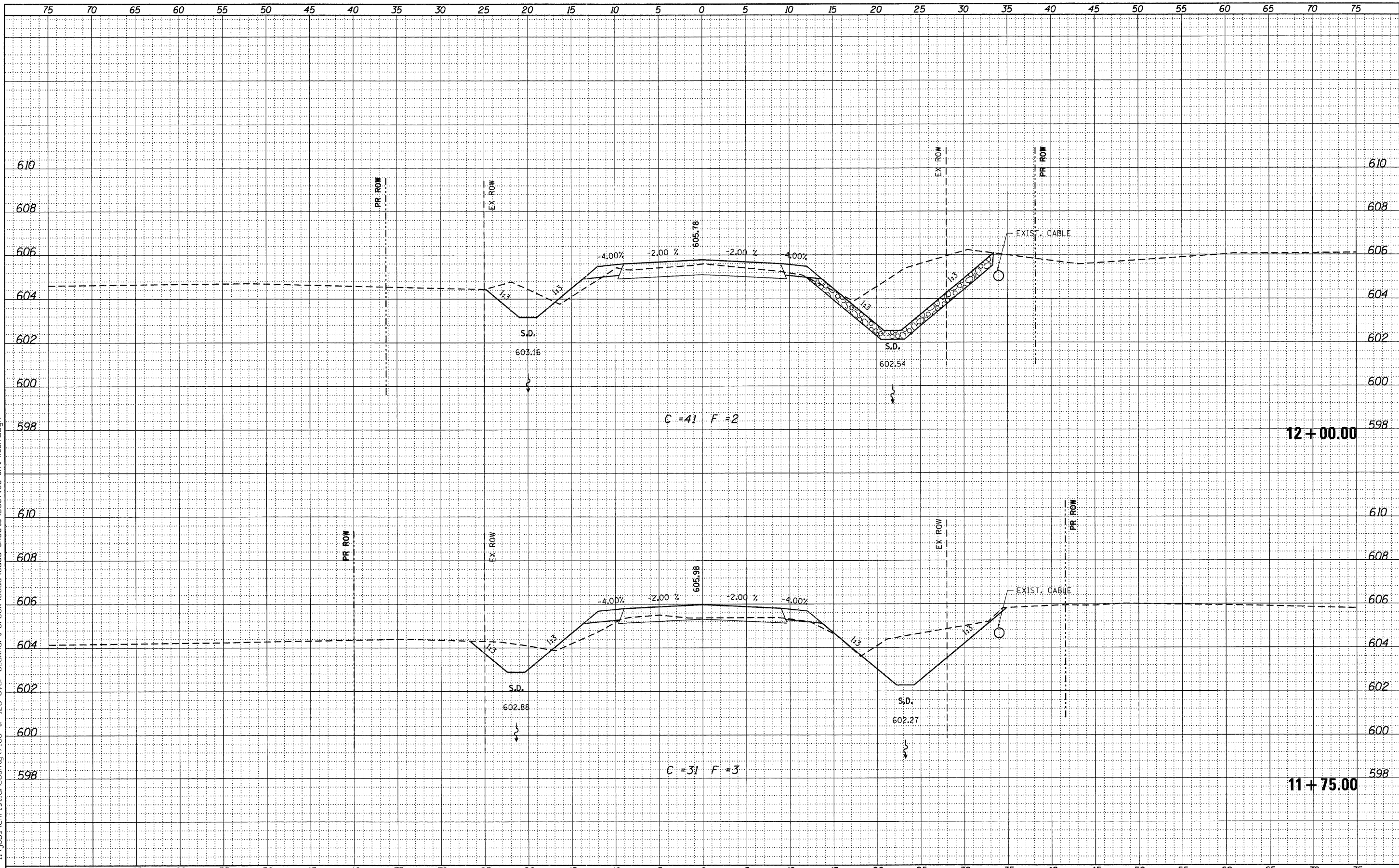
CROSS SECTIONS	
TR 216 OVER BUCKHART CREEK	
SCALE:	SHEET NO. OF SHEETS STA. 11+28.00 TO STA. 11+50.00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	22
CONTRACT NO. 93559				
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
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NOTE BOOK	
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USER NAME = dhaber.ling	DESIGNED - TJZ	REVISED
PLOT SCALE = 5.0000' / IN.	DRAWN - DLH	REVISED
PLOT DATE = 11/14/2011	CHECKED - SDS	REVISED
	DATE - 2/22/11	REVISED

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STATE OF ILLINOIS
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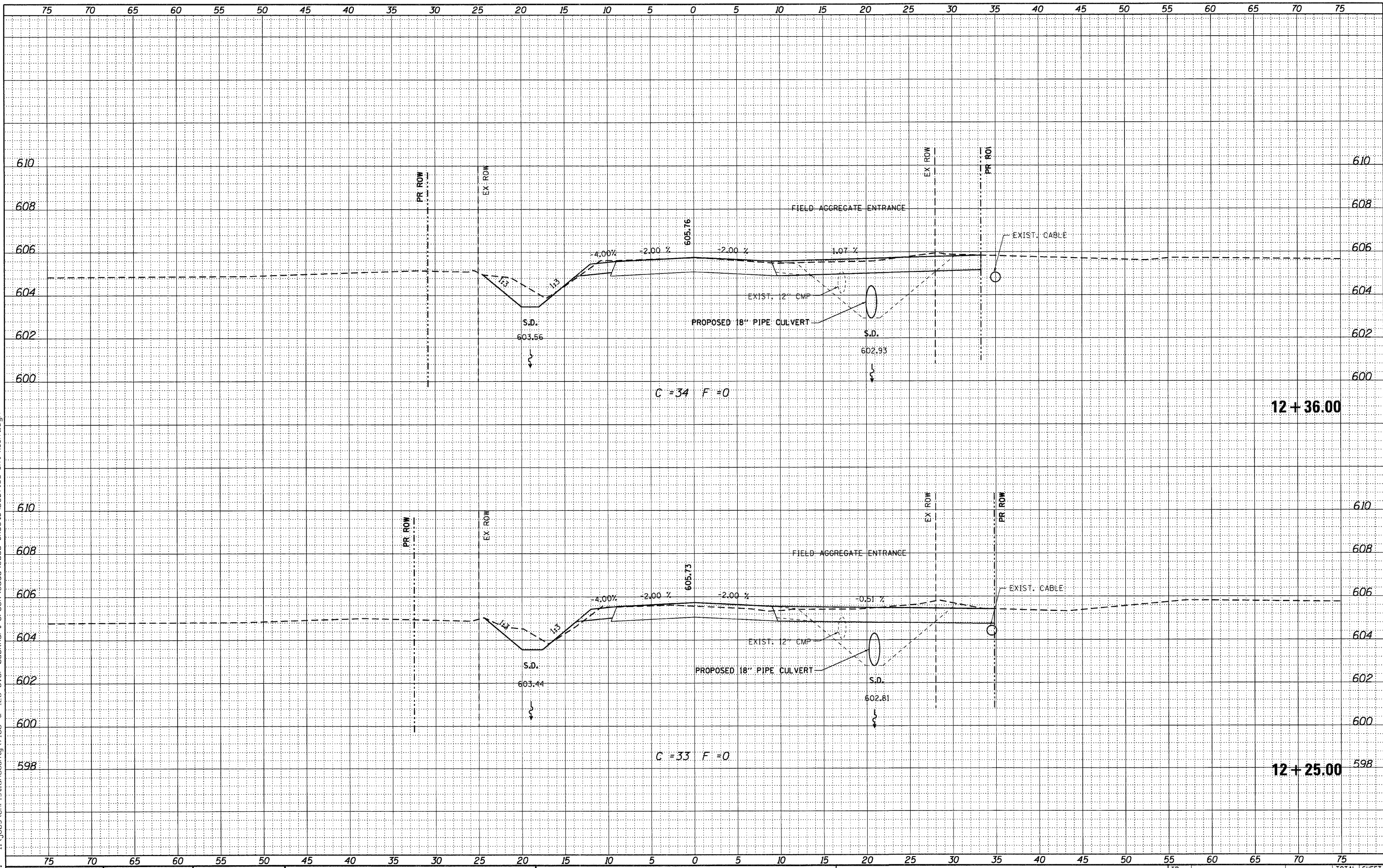
CROSS SECTIONS	
TR 216 OVER BUCKHART CREEK	
SCALE:	SHEET NO. OF SHEETS STA. 11+75.00 TO STA. 12+00.00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	23
CONTRACT NO. 93559			ILLINOIS FED. AID PROJECT	

DATE	
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FINAL SURVEY	
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NOTE BOOK	
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DATE	
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PLOT DATE = 11/14/2011	DATE - 2/22/11	REVISED

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

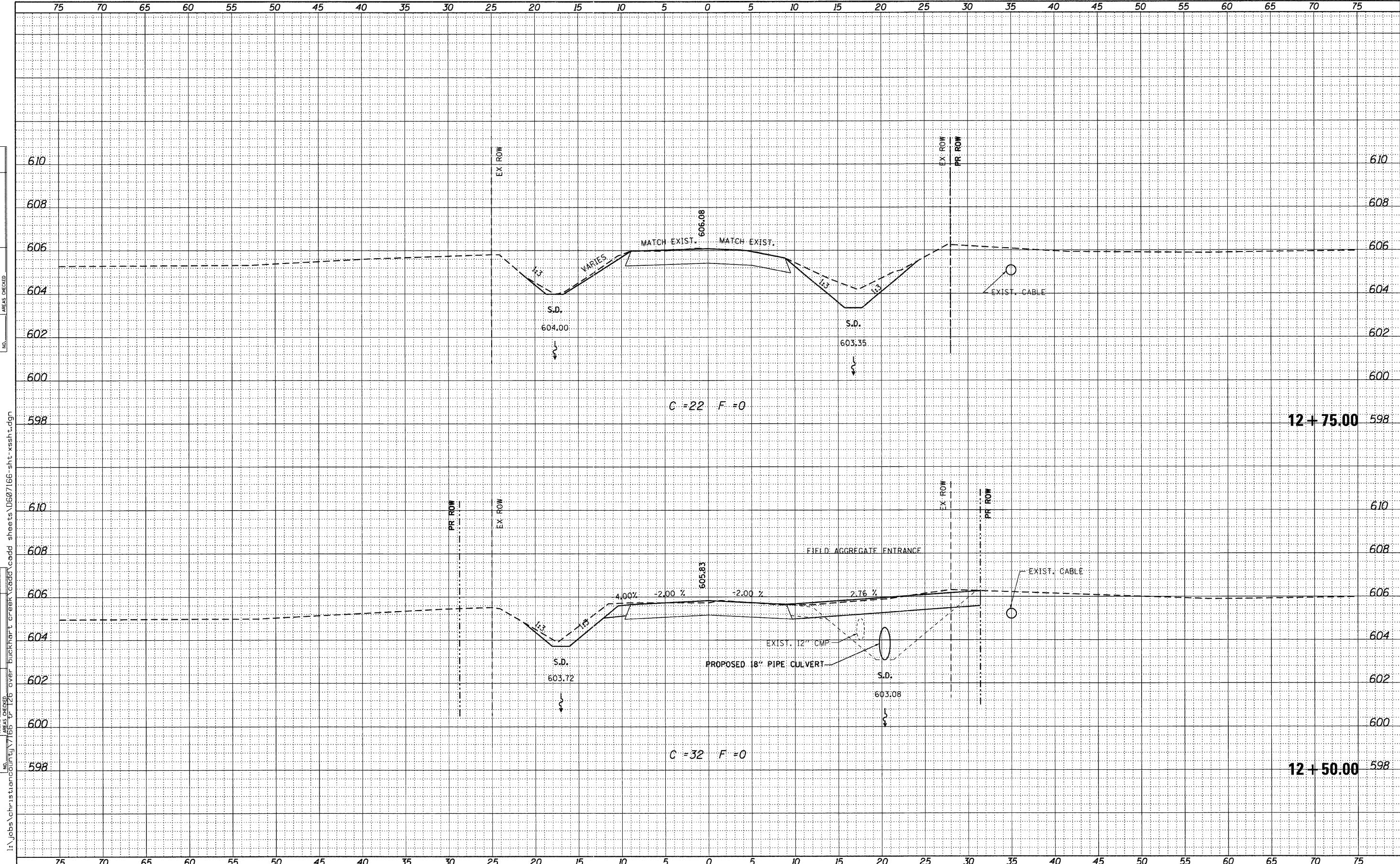
CROSS SECTIONS
TR 216 OVER BUCKHART CREEK

SCALE: SHEET NO. OF SHEETS STA. 12+25.00 TO STA. 12+36.00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	24
			CONTRACT NO. 93559	
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
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NOTE BOOK	
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USER NAME = dhaberling	DESIGNED - TJZ	REVISED
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PLOT SCALE = 5.0000' / IN.	CHECKED - SDS	REVISED
PLOT DATE = 11/14/2011	DATE - 2/22/11	REVISED

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CROSS SECTIONS	
TR 216 OVER BUCKHART CREEK	
SCALE:	SHEET NO. OF SHEETS STA. 12+50.00 TO STA. 12+75.00

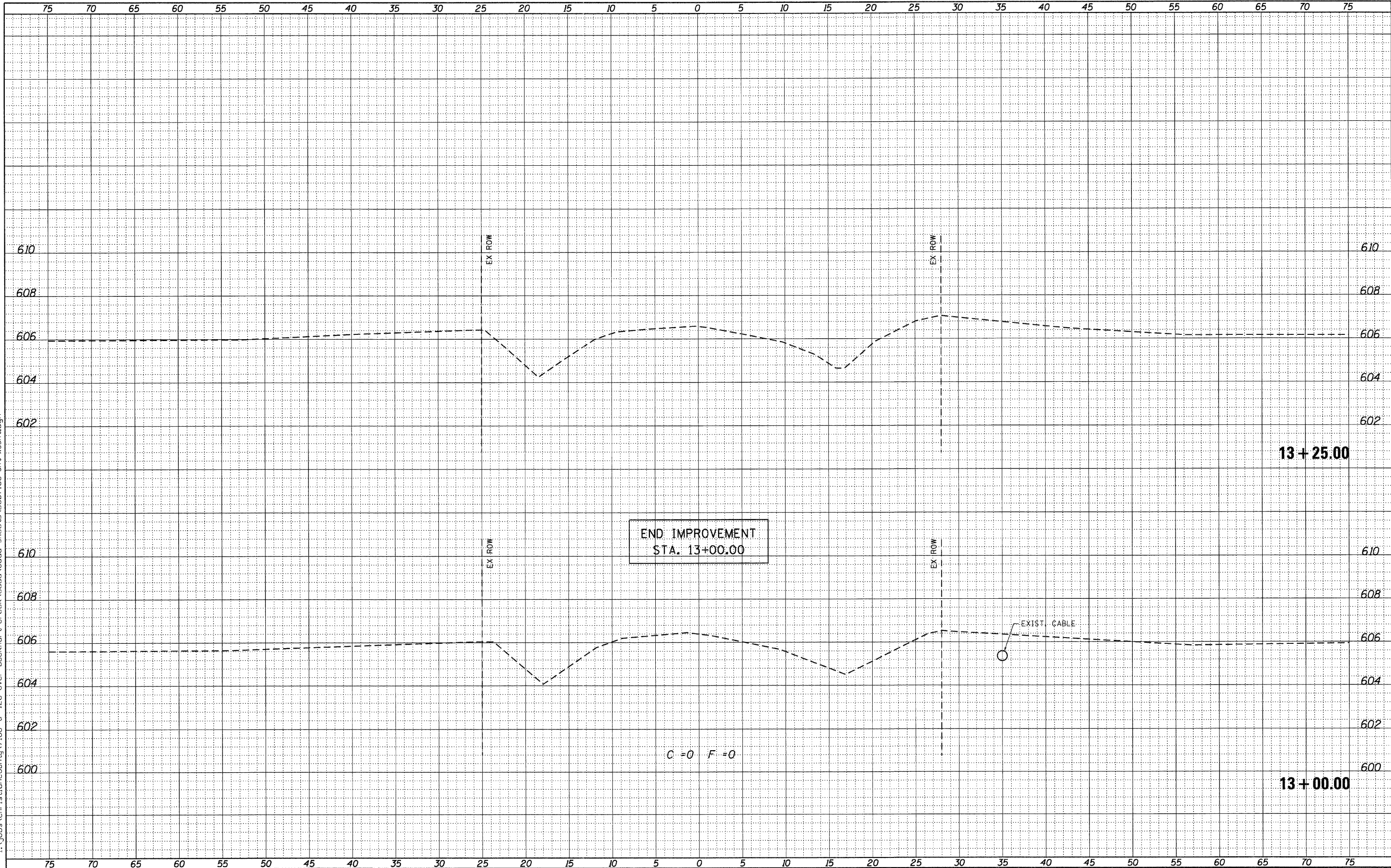
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CONTRACT NO. 93559			ILLINOIS FED. AID PROJECT	

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USER NAME = dheberling	DESIGNED - TJZ	REVISED
	DRAWN - DLH	REVISED
	CHECKED - SDS	REVISED
	DATE - 2/22/11	REVISED

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CROSS SECTIONS	
TR 216 OVER BUCKHART CREEK	
SCALE:	SHEET NO. OF SHEETS STA. 13+00.00 TO STA. 13+25.00

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
216	08-16112-00-BR	CHRISTIAN	26	26
				CONTRACT NO. 93559
ILLINOIS FED. AID PROJECT				