

04-23-2021 LETTING ITEM 175

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL AID PROJECT
SURFACE TRANSPORTATION
PROGRAM (FY-19)**

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	1
WOODBINE ROAD DISTRICT			WHA# 1329D17	
ILLINOIS FED. AID PROJECT SHTK(711)				

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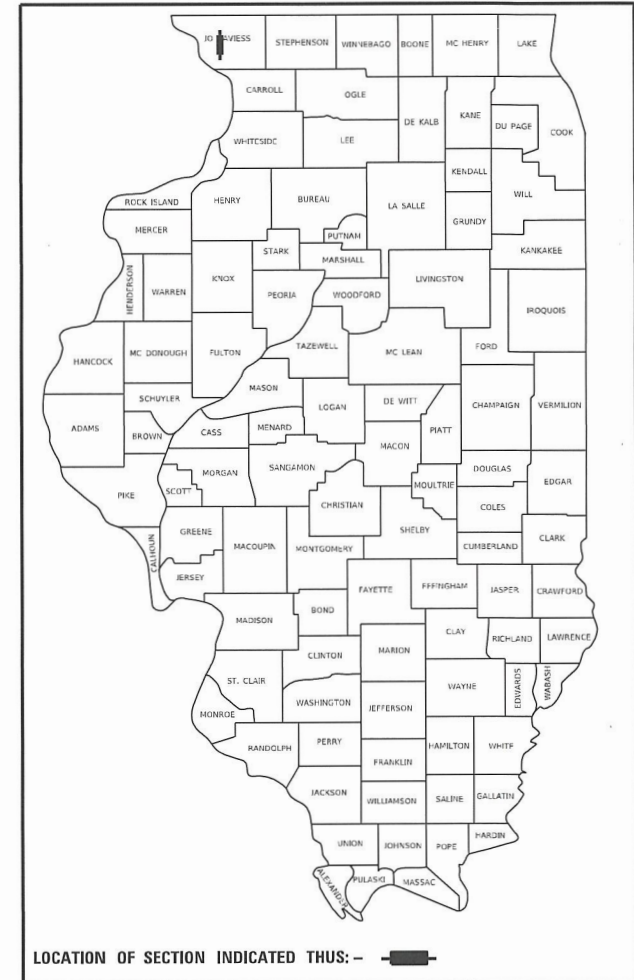
**FOR HIGHWAY STANDARDS
SEE SHEET NO. 2**

**FOR LIST OF UTILITIES
SEE SHEET NO. 2**

ATTENTION CONTRACTORS

THE ILLINOIS DEPARTMENT OF TRANSPORTATION BUREAU OF MATERIALS AND PHYSICAL RESEARCH, "PROJECT PROCEDURES GUIDE" IS APPLICABLE TO THIS PROJECTS

**T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
SECTION 17-23125-00-BR
PROJECT NO. SHTK(711)
JOB NO. C-92-066-19
STRUCTURE REPLACEMENT
WOODBINE ROAD DISTRICT
JO DAVIESS COUNTY**

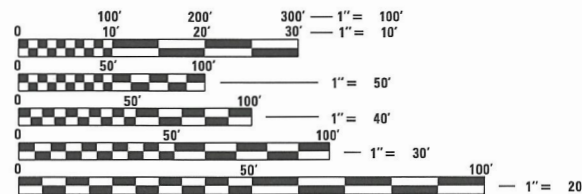


FUNCTIONAL CLASSIFICATION

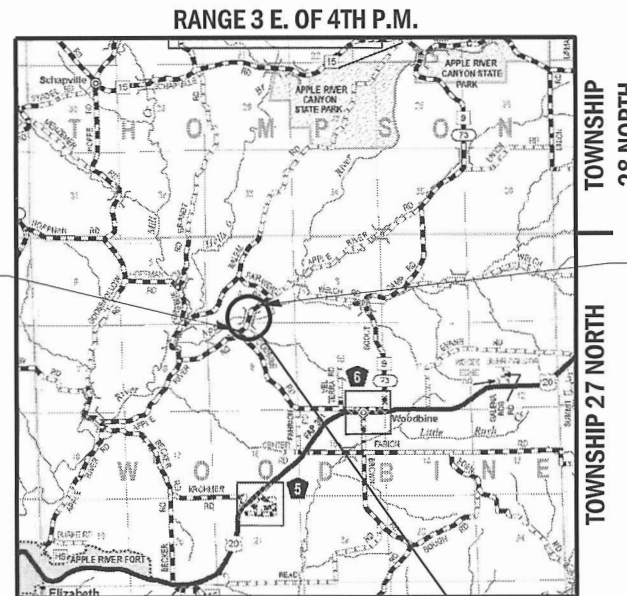
LOCAL ROAD (RURAL)
DESIGN SPEED 30 MPH
2019 ADT - 53

DESIGN CRITERIA

3R GUIDELINES



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.



CONSTRUCTION BEGINS
STATION 11+50

CONSTRUCTION ENDS
STATION 31+50

PROPOSED STRUCTURE: S.N. 043-3292
A THREE SPAN (59'-0", 100'-0", 59'-0") PRECAST CONCRETE DECK BEAM BRIDGE ON SPILL-THRU ABUTMENTS AND CONCRETE PIERS, SKEWED 15° RT. AHEAD.

GROSS LENGTH = 2,000 FT. = 0.379 MILE
NET LENGTH = 2,000 FT. = 0.379 MILE

JO DAVIESS COUNTY HIGHWAY DEPARTMENT	
APPROVED	<i>December 4 20 20</i> <i>Barrett Hest</i> WOODSBINE TOWNSHIP ROAD COMMISSIONER
APPROVED	<i>December 4 20 20</i> <i>[Signature]</i> JO DAVIESS COUNTY ENGINEER
PASSED	<i>2/19 20 21</i> <i>[Signature]</i> DISTRICT 2 LOCAL ROADS & STREETS ENGINEER
RELEASING FOR BID BASED ON LIMITED REVIEW	<i>2/19 20 21</i> <i>[Signature]</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER



809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DATE: 12-04-2020
EXPIRES 11/30/21

**PROJECT ENGINEER - SM
PROJECT MANAGER - BKC**

CONTRACT NO. 85686



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HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATE FOR BRIDGES
542401-04	METAL FLARED END SECTION FOR PIPE CULVERT
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
666001-01	RIGHT OF WAY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNT DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
B.L.R.21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
B.L.R.22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS. (TWO-LANE TWO WAY RURAL TRAFFIC)
B.L.R.27-1	TRAFFIC BARRIER TERMINAL TYPE 5A

GENERAL NOTES

SOUTH APPLE RIVER ROAD IS CURRENTLY CLOSED TO TRAFFIC. THE CONTRACTOR WILL BE REQUIRED TO ESTABLISH AND MAINTAIN THE ROAD CLOSURE. THE COUNTY'S CLOSURE WILL BE RETURNED TO THEM AT THE START OF CONSTRUCTION. THE ROAD CLOSURE SHALL BE INSTALLED PER APPLICABLE IDOT STANDARDS AND REGION 2 / DISTRICT 2 STANDARD 40.1 INCLUDED ON SHEET 51 OF THE PLAN SET.

THE REMOVAL OF BITUMINOUS SURFACING LESS THAN 6 INCH THICKNESS NOT ON A RIGID TYPE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE REMOVED AS EARTH EXCAVATION. THE REMOVAL OF BITUMINOUS SURFACING ON A RIGID TYPE BASE OR A THICKNESS OF 6 INCHES OR MORE ON A FLEXIBLE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PAVEMENT REMOVAL OF THE TYPE SPECIFIED.

A NATIONWIDE 404 PERMIT HAS BEEN ISSUED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO.

THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE A HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES BID FOR TOPSOIL FURNISH AND PLACE, 4" AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE COUNTY PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS SHALL BE INCLUDED IN THE COST OF THE SEEDING OR SODDING.

ALL "AGGREGATE SUBGRADE IMPROVEMENT" SHALL BE COMPLETED IN ACCORDANCE WITH ARTICLES 311.04, 311.05, 311.05(A), 311.06 AND 311.07. ALL AGGREGATE SUBGRADE THICKNESSES EQUAL TO OR LESS THAN 12 INCHES SHALL BE CONSTRUCTED OF AGGREGATE OF CA02 GRADATION. ALL AGGREGATE SUBGRADE THICKNESSES GREATER THAN 12 INCHES SHALL BE CONSTRUCTED OF CS02.

WHERE THE PROPOSED CONSTRUCTION MEETS AN EXISTING BITUMINOUS OR CONCRETE SURFACE, OR WHERE SAWING IS STATED ON THE PLANS, THE EXISTING SURFACE SHALL BE SAWED IN A NEAT, STRAIGHT LINE. COST OF SAWING IS TO BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.

EXISTING PRIVATE SIGNS, STREET SIGNS, OR TRAFFIC SIGNS THAT ARE WITHIN THE PROJECT CONSTRUCTION LIMITS AND ARE REQUIRED TO BE RELOCATED, SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL FIELD TILES, UNDERGROUND AND SURFACE UTILITIES AS OUTLINED IN SECTION 107 OF THE STANDARD SPECIFICATIONS, EVEN THOUGH THEY MAY NOT BE SHOWN IN THE PLANS. ANY FIELD TILE THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

GENERAL NOTES (CONT.)

THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKERS AND SECTION OR SUBSECTION MONUMENTS ENCOUNTERED UNTIL AN OWNER, AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. ANY PROPERTY MARKERS AND SECTION OR SUBSECTION MONUMENTS, UNLESS REFERENCED, DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

ALL CONSTRUCTION MATERIALS WITHIN THE COUNTY ROW MUST BE IDOT CERTIFIED. DOCUMENTATION OF MATERIAL CERTIFICATION SHALL BE SUBMITTED PRIOR TO ENGINEER APPROVAL. ALL CONSTRUCTION MATERIAL NEEDING INSPECTION SHALL BE DONE ACCORDING TO THE LATEST IDOT PROJECT AND PROCEDURES GUIDE.

RIGHT-OF-WAY MARKERS WILL BE ERECTED PER HIGHWAY STANDARD 666001 WITH THE BACK FACE OF THE MARKER ON THE RIGHT-OF-WAY LINE, UNLESS THE NEW RIGHT-OF-WAY LINE HAS BEEN SURVEYED AND PINNED, IN WHICH INSTANCE THE RIGHT-OF-WAY MARKERS WILL BE ERECTED 12 INCHES INSIDE THE NEW RIGHT-OF-WAY LINE. THE METHOD OF INSTALLATION SHALL BE APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:

FRONTIER COMMUNICATIONS
112 ELM STREET
SYCAMORE, IL 60178
CONTACT: KALIN HINSHAW
PH: 815-895-1515
EMAIL: KALIN.HINSHAW@FTR.COM

JO-CARROLL ENERGY, INC.
PO BOX 390
ELIZABETH, IL 61028
CONTACT: MARK WILD
PH: 800-858-552 EXT.1258
EMAIL: MWILD@JOCARROLL.COM

WHENEVER, DURING CONSTRUCTION OPERATIONS, ANY DEBRIS IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, DITCHES, ETC. SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THIS DEBRIS SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.

AS PART OF THE BIDDING PROCEDURE, THE CONTRACTOR SHALL VERIFY THAT THE QUANTITIES FOR PAY ITEMS AS PRESENTED IN THESE PLAN DOCUMENTS ARE SUBSTANTIALLY CORRECT; IF DISCREPANCIES ARE DETECTED THE CONTRACTORS SHALL NOTIFY THE ENGINEER AND OWNER AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION IN ORDER TO ARRANGE FOR APPROPRIATE CONSTRUCTION INSPECTION. WORK PERFORMED OR MATERIALS AND EQUIPMENT INSTALLED WITHOUT INSPECTION MAY BE CONSIDERED UNACCEPTABLE AT THE DISCRETION OF THE ENGINEER AND MAY HAVE TO BE REPLACED AT NO COST TO THE ENGINEER OR OWNER.

FINAL INSPECTION OF THE WORK PERFORMED UNDER THIS CONTRACT WILL BE DONE BY THE ENGINEER OR OWNER PRIOR TO FINAL ACCEPTANCE; DEFECTS SHALL BE CORRECTED BY THE CONTRACTOR WITHOUT COST TO THE OWNER PRIOR TO ISSUANCE OF THE FINAL PAYMENT.

CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURE DURING THE COURSE OF THE PROJECT.

AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL SWEEP OR CLEAN (NOT FLUSH) ANY CONSTRUCTION SOIL MATERIAL FROM THE STREET TO PREVENT TRACKING. THE ENGINEER SHALL HAVE AUTHORIZATION TO DETERMINE THE ADEQUACY OF CONTRACTOR'S EROSION CONTROL EFFORTS. THE OWNER SHALL HAVE AUTHORITY TO SUSPEND OR LIMIT THE CONTRACTOR'S OPERATIONS PENDING ADEQUATE PERFORMANCE.

DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL INSURE POSITIVE SITE DRAINAGE AT THE CONCLUSION OF EACH DAY. SITE DRAINAGE MAY BE ACHIEVED BY DITCHING, PUMPING, OR ANY OTHER METHOD ACCEPTABLE TO THE ENGINEER. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUIRED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT THEREOF.

GENERAL NOTES (CONT.)

ALL DUST ON-SITE SHALL BE CONTROLLED BY THE USE OF WATER BASED PRODUCTS ONLY. NO OILS OR PETROLEUM BASED AGENTS SHALL BE PERMITTED FOR DUST CONTROL.

THE APPLICABLE PORTIONS OF ARTICLE 105.07 OF THE STANDARD SPECIFICATION SHALL APPLY EXCEPT FOR THE FOLLOWING: THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE THE VERTICALE DEPTHS OF THE UNDERGROUND UTILITIES WHICH MAY INTERFERE WITH CONSTRUCTION OPERATIONS. THIS WORK WILL NOT BE MEASURED OR PAID FOR SEPARATELY. BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICE FOR THE ITEM OF CONSTRUCTION INVOLVED.

PROJECT CONTROL

VERTICAL CONTROL					
BENCHMARK	STATION	ELEVATION	DESCRIPTION		
400	71.0' LT ±16+41	658.76	RR SPIKE IN PP S. OF BRIDGE, WEST SIDE OF APPLE RIVER ROAD		
401	8.2' RT ±20+50	663.36	CHISLED "□" IN HUB GUARD NE CORNER OF BRIDGE, EAST SIDE OF APPLE RIVER ROAD		
402	35.9' LT ±25+09	659.14	RR SPIKE IN PP N. OF BRIDGE, WEST SIDE OF APPLE RIVER ROAD		

HORIZONTAL CONTROL					
POINT #	STATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	20.1' LT 15+69.11	2072520.76	2295147.01	656.84	5/8" IP W/ CAP
2	75.9' LT 18+83.06	2072826.45	2295195.75	655.52	5/8" IP W/ CAP
3	0.4' LT 20+78.80	2072994.62	2295321.10	661.23	PK NAIL
4	18.7' LT 24+35.07	2073344.25	2295396.15	657.08	5/8" IP W/ CAP



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DRAWN - GBG	REVISED -
CHECKED - LGN	REVISED -

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

HIGHWAY STANDARDS, GENERAL NOTES
& PROJECT CONTROL

SHEET 1 OF 1

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	2
WHA# 1329D17		CONTRACT NO. 85686		

ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE: 0010

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
Δ 20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	50
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	65
20300100	CHANNEL EXCAVATION	CU YD	2,002
20400800	FURNISHED EXCAVATION	CU YD	1,714
20800150	TRENCH BACKFILL	CU YD	25
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	961
25100630	EROSION CONTROL BLANKET	SQ YD	9,512
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	180
28000305	TEMPORARY DITCH CHECKS	FOOT	216
28000400	PERIMETER EROSION BARRIER	FOOT	2,281
28000500	INLET AND PIPE PROTECTION	EACH	4
28100113	STONE RIPRAP, CLASS A7	SQ YD	843
28200200	FILTER FABRIC	SQ YD	843
* 30300011	AGGREGATE SUBGRADE IMPROVEMENT	TON	1,790

* SPECIAL PROVISION

CONSTRUCTION TYPE CODE: 0010

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	135
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	1,396
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	75
50200100	STRUCTURE EXCAVATION	CU YD	41
50200300	COFFERDAM EXCAVATION	CU YD	302
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	134.6
50300265	SEAL COAT CONCRETE	CU YD	132
50300280	CONCRETE ENCASEMENT	CU YD	4
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	2,832
50400705	PRECAST PRESTRESSED CONCRETE DECK BEAMS (42" DEPTH)	SQ FT	2,400
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	14,500

* SPECIAL PROVISION

Δ SPECIALTY ITEMS

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DRAWN - GBG	REVISED -
CHECKED - LGN	REVISED -

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

SUMMARY OF QUANTITIES

SHEET 1 OF 3

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	3
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

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SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE: 0010

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
Δ 50901050	STEEL RAILING, TYPE SM	FOOT	440
51201600	FURNISHING STEEL PILES HP12X53	FOOT	468
51202305	DRIVING PILES	FOOT	468
51203600	TEST PILE STEEL HP12X53	EACH	4
51500100	NAME PLATES	EACH	1
54002020	EXPANSION BOLTS 3/4 INCH	EACH	20
54003000	CONCRETE BOX CULVERTS	CU YD	12.5
54262715	METAL FLARED END SECTIONS 15"	EACH	6
54262724	METAL FLARED END SECTIONS 24"	EACH	2
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	108
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	36
* 58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	1,527
* 58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	88
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	52

* SPECIAL PROVISION

CONSTRUCTION TYPE CODE: 0010

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
Δ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	100
Δ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
Δ 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2
67100100	MOBILIZATION	L SUM	1
Δ 72500200	OBJECT MARKER - TYPE 2	EACH	4
Δ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
Δ 72900100	METAL POST - TYPE A	FOOT	34
Δ 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1
* Z0022800	FENCE REMOVAL	FOOT	2,601
* Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	114
* X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	10.6
* X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	1,458

* SPECIAL PROVISION
Δ SPECIALTY ITEMS

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JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

SUMMARY OF QUANTITIES

SHEET 2 OF 3

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	4
WHA* 1329D17		CONTRACT NO. 85686		
[ILLINOIS] FED. AID PROJECT				

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE: 0010

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
* X2070302	POROUS GRANULAR EMBANKMENT, SPECIAL	TON	28.5
* X2501020	SEEDING, CLASS 2A (SPECIAL)	ACRE	1.8
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

* SPECIAL PROVISION
 Δ SPECIALTY ITEMS

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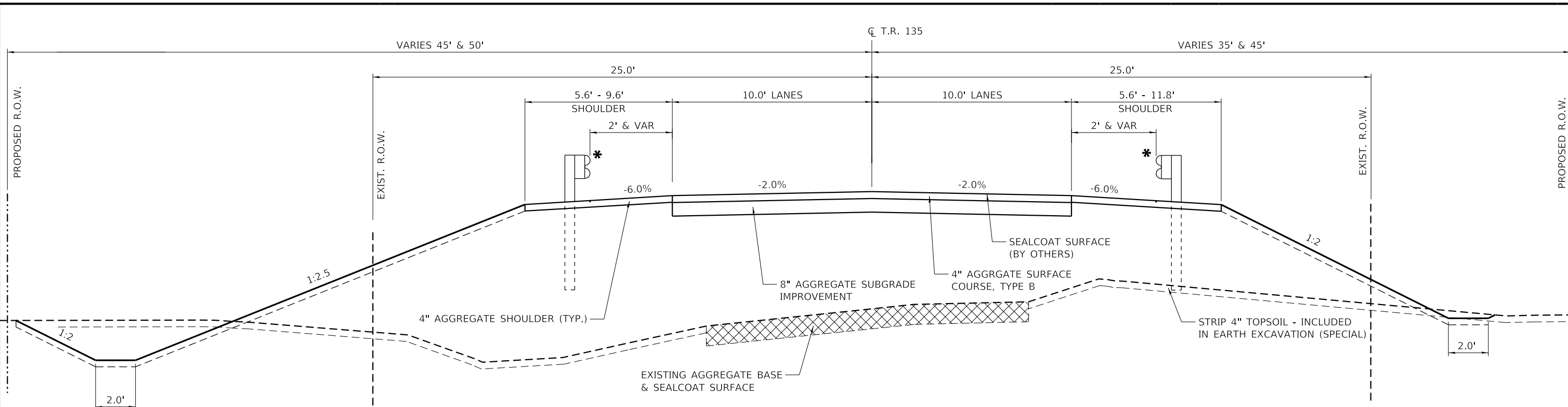
JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

SUMMARY OF QUANTITIES

SHEET 3 OF 3

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	5
WHA* 1329017		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

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**** SUPER ELEVATIONS**

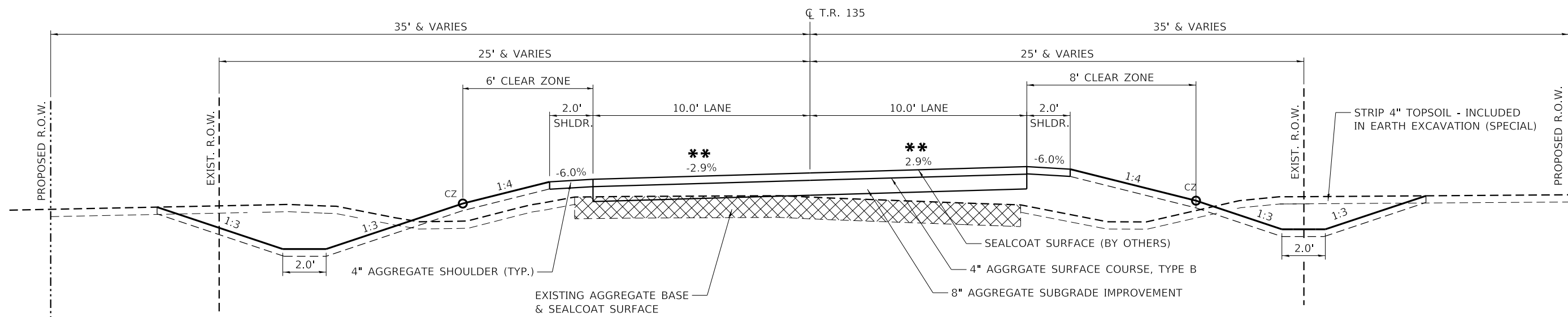
FULL SUPER = -2.9% LT, +2.9% RT
 PC STA: 11+12.08 to PT STA: 17+47.34

PROPOSED TYPICAL SECTION

STA. 17+91.10 - STA. 22+09.29
 (BRIDGE OMITTED STA. 18+74.61 - STA. 21+30.07)

*** GUARDRAIL SHALL BE INSTALLED BASED ON FINAL ELEVATION PAVEMENT. GUARDRAIL LOCATED FROM STATIONS:**

RT. STA. 17+91.10 TO 18+93.07
 LT. STA. 18+09.46 TO 18+86.64
 LT. STA. 21+07.04 TO 22+09.29
 RT. STA. 21+13.28 TO 21+90.32



PROPOSED TYPICAL SECTION

STA. 11+50.00 - STA. 17+91.10



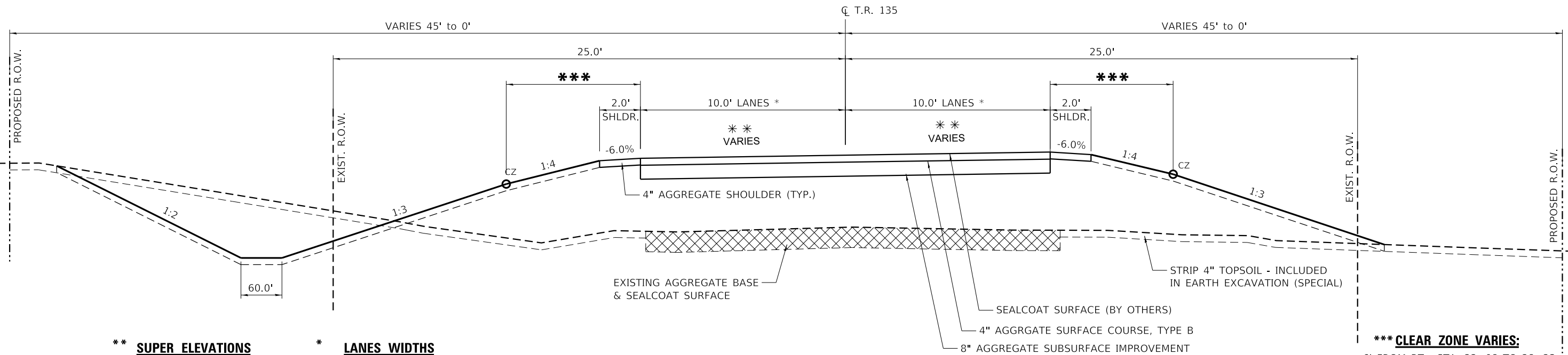
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JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

TYPICAL SECTIONS

SHEET 1 OF 2 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	6
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

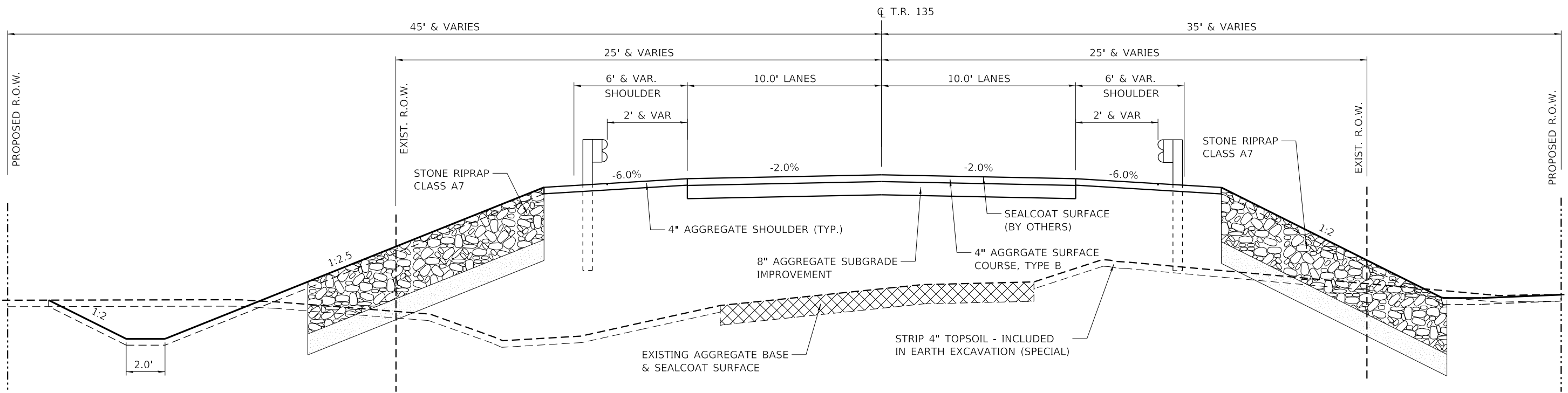


**** SUPER ELEVATIONS**
 FULL SUPER = +2.6% LT, -2.6% RT
 PC STA: 23+93.60 to PT STA: 24+81.20
 FULL SUPER = +4.0% LT, -4.0% RT
 PC STA: 24+81.20 to PT STA: 26+75.15
 FULL SUPER = -2.7% LT, +2.7% RT
 PC STA: 28+21.10 to PT STA: 30+73.82

*** LANES WIDTHS**
 LANE WIDTHS AT 50:1 TAPER
 TO EXISTING
 STA: 30+75 to 31+50

***** CLEAR ZONE VARIES:**
 6' FROM RT. STA. 22+08 TO 28+23
 7' FROM RT. STA. 28+23 TO 31+50
 6' FROM LT. STA. 22+08 TO 23+00
 9' FROM LT. STA. 23+00 TO 26+50
 6' FROM LT. STA. 26+50 TO 31+50

PROPOSED TYPICAL SECTION
 STA. 22 + 09.29 - STA. 31 + 50.00



PROPOSED TYPICAL SECTION
 STA. 18 + 72.55 - STA. 18 + 90.00
 STA. 21 + 10.00 - STA. 21 + 25.12



DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - LGN	REVISED -

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

TYPICAL SECTIONS
 SHEET 2 OF 2 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	7
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

EARTHWORK SCHEDULE						
LOCATION	EARTH	EARTH	CHANNEL	CHANNEL	*EMBANKMENT	FURNISHED
	(SPECIAL)	ADJUSTED FOR	EXCAVATION	EXCAVATION		EXCAVATION
	X2020410	25% SHRINKAGE	20300100	37.5% SHRINKAGE		20400800
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
S. APPLE RIVER ROAD STA. 11+50 - 31+50	1,458	1,094	2,002	1,252	4,060	1,714
PROJECT TOTAL	1,458	1,094	2,002	1,252	4,060	1,714

FOR INFORMATION ONLY, SEE SPECIAL PROVISIONS FOR EARTH EXCAVATION (SPECIAL)

EROSION CONTROL BLANKET		
STATION	SQ YD	REMARKS
S. APPLE RIVER ROAD		
RT 11+50 - 12+91	366	START OF PROJECT TO FER +97
LT 11+50 - 13+07	242	START OF PROJECT TO BOX CULV. 13+15
LT 12+97 - 13+49	119	BOX CULVERT 13+15 TO FEL +56
RT 13+02 - 13+30	51	B/W FER +97 & BOX CULVERT 13+15
RT 13+24 - 15+70	682	B/W BOX CULVERT 13+15 & FER +76
LT 13+61 - 19+38	1,504	BETWEEN FEL +56 & BRIDGE
RT 15+81 - 18+02	545	BETWEEN PER +76 & FER +76
RT 17+90 - 19+56	269	BETWEEN FER +76 & BRIDGE
LT 20+27 - 24+46	1,532	BETWEEN BRIDGE & PEL +55
RT 20+57 - 22+50	683	BETWEEN BRIDGE & FER +62
RT 22+74 - 31+50	1,401	BETWEEN FER +62 TO END OF PROJECT
LT 24+54 - 31+50	1,253	BETWEEN PEL +55 & END OF PROJECT
ENTIRE PROJCT	865	TEMPORARY SEEDING
PROJECT TOTAL	9,512	

25100630

PERIMETER EROSION BARRIER		
STATION	FOOT	REMARKS
S. APPLE RIVER ROAD		
LT 11+50 - LT 12+96	151	
LT 13+00 - 13+35	63	
RT 13+20 - 13+27	15	
RT 13+35 - 14+00	77	
RT 15+00 - 15+75	99	
LT 17+00 - 19+38	252	
RT 17+50 - 18+02	58	
RT 18+19 - 19+54	188	
LT 20+28 - 22+50	246	
RT 20+57 - 22+50	278	
RT 22+90 - 31+50	854	
PROJECT TOTAL	2,281	

28000400

TREE REMOVAL (OVER 15 UNITS DIAMETER)		
STATION	UNIT	REMARKS
S. APPLE RIVER ROAD		
22.0' LT 15+00	50	50" TREE REMV
PROJECT TOTAL	50	

20100210

TEMPORARY EROSION CONTROL SEEDING		
STATION	POUND	REMARKS
S. APPLE RIVER ROAD		
ENTIRE PROJECT	180	100 LBS. / ACRE
PROJECT TOTAL	180	

28000250

INLET AND PIPE PROTECTION		
STATION	EACH	REMARKS
S. APPLE RIVER ROAD		
RT 12+82	1	15" END SECTION
LT 13+72	1	15" END SECTION
RT 17+76	1	15" END SECTION
LT 24+75	1	24" END SECTION
PROJECT TOTAL	4	

28000500

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL		
STATION	CU YD	REMARKS
S. APPLE RIVER ROAD		
ENTIRE PROJECT	65	CONTINGENCY ITEM 5% OF PAVEMENT AREA
PROJECT TOTAL	65	

20201200

TEMPORARY DITCH CHECKS		
STATION	FOOT	REMARKS
S. APPLE RIVER ROAD		
RT 12+00	6	
RT 12+50	6	
RT 13+50	6	
RT 14+00	6	
LT 14+00	6	
RT 14+50	6	
LT 14+50	6	
LT 15+50	6	
LT 16+00	6	
RT 16+50	6	
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LT 28+50	6	
LT 29+00	6	
LT 29+50	6	
LT 30+00	6	
LT 30+50	6	
LT 31+00	6	
PROJECT TOTAL	216	

28000305

AGGREGATE SUBGRADE IMPROVEMENT		
STATION	TON	REMARKS
S. APPLE RIVER ROAD		
11+50 - 18+90	744	DEPTH 8 (IN) - SOUTH OF BRIDGE
21+10 - 31+50	1,046	DEPTH 8 (IN) - NORTH OF BRIDGE
PROJECT TOTAL	1,790	

30300011

TRENCH BACKFILL		
STATION	CU YD	REMARKS
S. APPLE RIVER ROAD		
RT 12+97	4	F.E.R. 15"
LT 13+56	6	F.E.R. 15"
LT 13+56	3	15" REMOVAL
RT 17+76	4	F.E.R. 15"
LT 24+55	3	P.E.L. 24"
27+40	5	AR 18" CULVERT REMOVAL
PROJECT TOTAL	25	

20800150

SUB-BASE GRANULAR MATERIAL, TYPE B		
STATION	TON	REMARKS
S. APPLE RIVER ROAD		
ENTIRE PROJECT	135	CONTINGENCY ITEM 5% OF PAVEMENT AREA
PROJECT TOTAL	135	

31101000

TOPSOIL EXCAVATION AND PLACEMENT		
STATION	CU YD	REMARKS
S. APPLE RIVER ROAD		
RT & LT 11+50 - 31+50	961	DEPTH 4" OR USABLE TOP SOIL
PROJECT TOTAL	961	

21101505

AGGREGATE SURFACE COURSE, TYPE B		
STATION	TON	REMARKS
S. APPLE RIVER ROAD		
11+50 - 18+90	481	DEPTH 4 (IN) W/ AGG SHOULDER
21+10 - 31+50	672	DEPTH 4 (IN) W/ AGG SHOULDER
RT 12+97	21	DEPTH 8 (IN) - ENTRANCE
LT 13+56	27	DEPTH 8 (IN) - ENTRANCE
RT 15+76	36	DEPTH 8 (IN) - ENTRANCE
RT 17+76	43	DEPTH 8 (IN) - ENTRANCE
RT 22+62	62	DEPTH 8 (IN) - ENTRANCE
LT 24+55	54	DEPTH 8 (IN) - ENTRANCE
PROJECT TOTAL	1,396	

40200800



DESIGNED - SM
CHECKED - BKC
DRAWN - GBG
CHECKED - LGN

REVISED -
REVISED -
REVISED -
REVISED -

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

SCHEDULE OF QUANTITIES

SHEET 1 OF 3

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	8
WHA# 1329D17		CONTRACT NO. 85686		

ILLINOIS FED. AID PROJECT

SCHEDULE OF QUANTITIES

PIPE CULVERT REMOVAL		
STATION	FOOT	REMARKS
S. APPLE RIVER ROAD		
RT 12+97	25	ENTRANCE 15" CMP
LT 13+53	26	ENTRANCE 15" CMP
RT - LT 27+40	24	ROADWAY 18" CMP
PROJECT TOTAL		75
50105220		

PIPE CULVERTS, CLASS D, TYPE 1 15"		
STATION	FOOT	REMARKS
S. APPLE RIVER ROAD		
RT 12+85 TO 13+07	28	F.E.R. 12+97
LT 13+38 TO 13+71	32	F.E.L. 13+56
RT 17+70 TO 18+05	48	F.E.R. 17+76
PROJECT TOTAL		108
542D0220		

PIPE CULVERTS, CLASS D, TYPE 1 24"		
STATION	FOOT	REMARKS
S. APPLE RIVER ROAD		
RT 12+85 TO 13+07	36	P.E.L. 24+55
PROJECT TOTAL		36
542D0229		

METAL FLARED END SECTIONS 15"		
STATION	EACH	REMARKS
S. APPLE RIVER ROAD		
RT 12+83	1	
RT 13+07	1	
LT 13+38	1	
LT 13+71	1	
LT 17+70	1	
LT 18+05	1	
PROJECT TOTAL		6
54262715		

METAL FLARED END SECTIONS 24"		
STATION	EACH	REMARKS
S. APPLE RIVER ROAD		
LT 24+37	1	
LT 24+72	1	
PROJECT TOTAL		2
54262724		

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS		
STATION	FOOT	REMARKS
S. APPLE RIVER ROAD		
RT 18+42.36 - 18+79.83	37.5	
LT 18+60.91 - 18+73.40	12.5	
LT 21+20.29 - 21+57.83	37.5	
RT 21+26.47 - 21+38.96	12.5	
PROJECT TOTAL		100
63000001		

TRAFFIC BARRIER TERMINAL, TYPE 5A		
STATION	EACH	REMARKS
S. APPLE RIVER ROAD		
LT 18+73.40 - 18+86.64	1	
RT 18+79.83 - 18+93.07	1	
LT 21+07.11 - 21+20.29	1	
RT 21+13.25 - 21+26.47	1	
PROJECT TOTAL		4
63100075		

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT		
STATION	EACH	REMARKS
S. APPLE RIVER ROAD		
LT 18+09.46 - 18+60.91	1	
RT 21+38.96 - 21+90.32	1	
PROJECT TOTAL		2
63100167		

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED		
STATION	EACH	REMARKS
S. APPLE RIVER ROAD		
RT 17+91.00 - 18+42.36	1	
LT 21+57.83 - 22+09.29	1	
PROJECT TOTAL		2
63100169		

OBJECT MARKER - TYPE 2		
STATION	EACH	REMARKS
S. APPLE RIVER ROAD		
LT 12+86	1	POST MOUNTED
LT 13+11	1	POST MOUNTED
RT 13+18	1	POST MOUNTED
RT 13+40	1	POST MOUNTED
PROJECT TOTAL		4
72500200		

TERMINAL MARKER - DIRECT APPLIED		
STATION	EACH	REMARKS
S. APPLE RIVER ROAD		
RT 17+92	1	
LT 18+10	1	
RT 21+89	1	
LT 22+08	1	
PROJECT TOTAL		4
72501000		

METAL POST - TYPE A		
STATION	FOOT	REMARKS
S. APPLE RIVER ROAD		
LT 12+86	8.5	OBJECT MARKER
LT 13+11	8.5	OBJECT MARKER
RT 13+18	8.5	OBJECT MARKER
RT 13+40	8.5	OBJECT MARKER
PROJECT TOTAL		34.0
72900100		

GUARDRAIL REFLECTORS, TYPE A		
STATION	EACH	REMARKS
S. APPLE RIVER ROAD		
RT 17+92 - 18+93	4	
LT 18+11 - 18+87	4	
LT 21+07 - 22+08	4	
RT 21+13 - 21+89	4	
PROJECT TOTAL		16
78200005		

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

SCHEDULE OF QUANTITIES

SHEET 2 OF 3

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	9
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				



DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - GBG	REVISED -
CHECKED - LGN	REVISED -

SCHEDULE OF QUANTITIES

FENCE REMOVAL		
STATION	FOOT	REMARKS
S. APPLE RIVER ROAD		
LT 11+50 - LT 12+95	142	
LT 13+10 - 13+40	37	
LT 13+75 - 17+00	319	
RT 16+15 - 17+75	178	
LT 20+60 - 24+45	451	
RT 20+67 - 22+35	173	
RT 22+85 - 23+00	15	
RT 23+50 - 31+13	753	
LT 25+80 - 31+13	533	
PROJECT TOTAL	2,601	
Z0022800*		

SEEDING, CLASS 2A (SPECIAL)		
STATION	ACRE	REMARKS
S. APPLE RIVER ROAD		
ENTIRE PROJECT	1.8	
PROJECT TOTAL	1.8	
X2501020*		

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DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - GBG	REVISED -
CHECKED - LGN	REVISED -

**JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00**

SCHEDULE OF QUANTITIES

SHEET 3 OF 3

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	10
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

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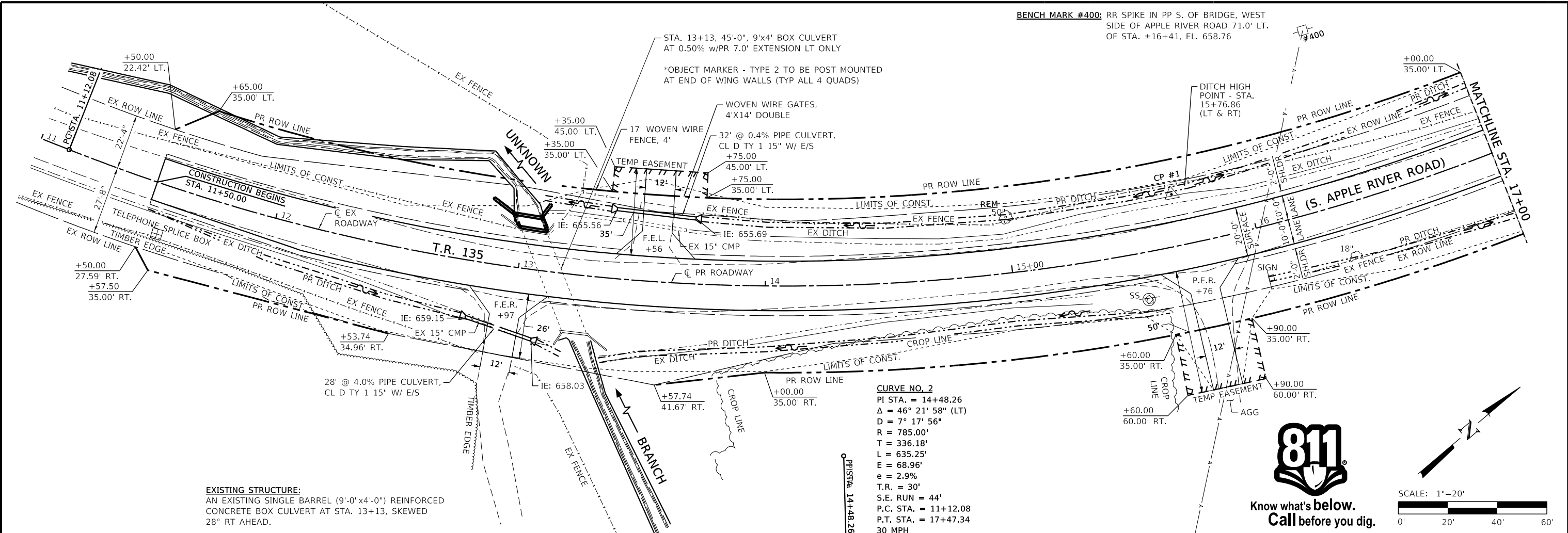
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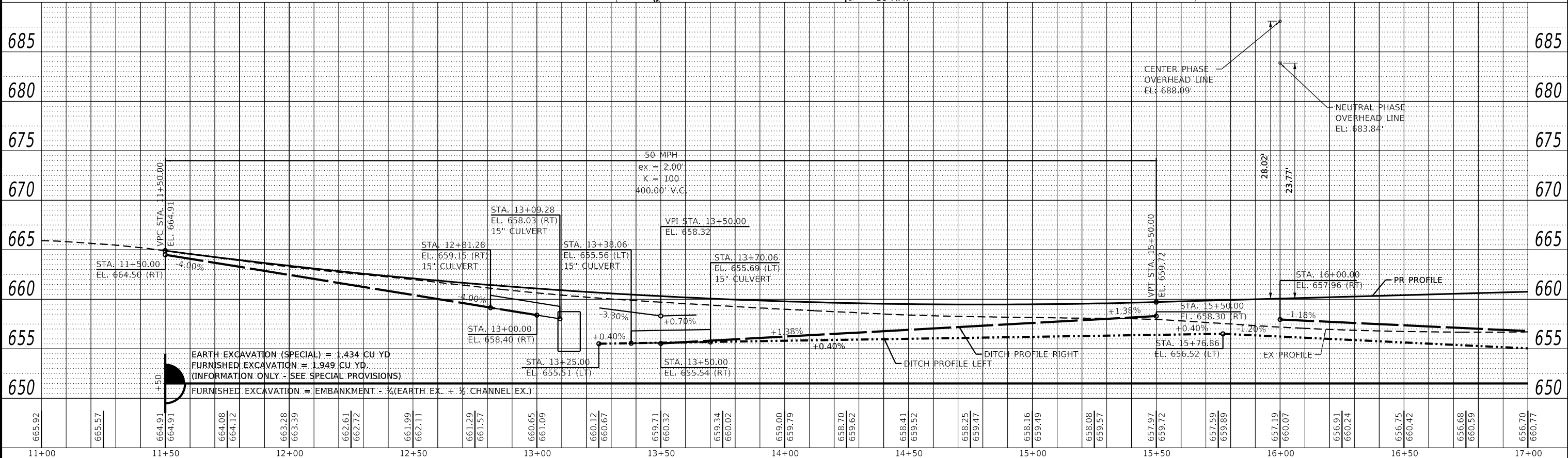
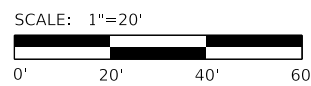
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BENCH MARK #400: RR SPIKE IN PP S. OF BRIDGE, WEST SIDE OF APPLE RIVER ROAD 71.0' LT. OF STA. ±16+41, EL. 658.76



EXISTING STRUCTURE:
AN EXISTING SINGLE BARREL (9'-0\"/>

CURVE NO. 2
PI STA. = 14+48.26
Δ = 46° 21' 58\"/>



DESIGNED	- SM	REVISED	-
CHECKED	- BKC	REVISED	-
DRAWN	- FDL	REVISED	-
CHECKED	- PLP	REVISED	-

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

PLAN AND PROFILE

SCALE: 1" = 20'-0" SHEET NO. 1 OF 4 SHEETS STA. 11+00 TO STA. 17+00

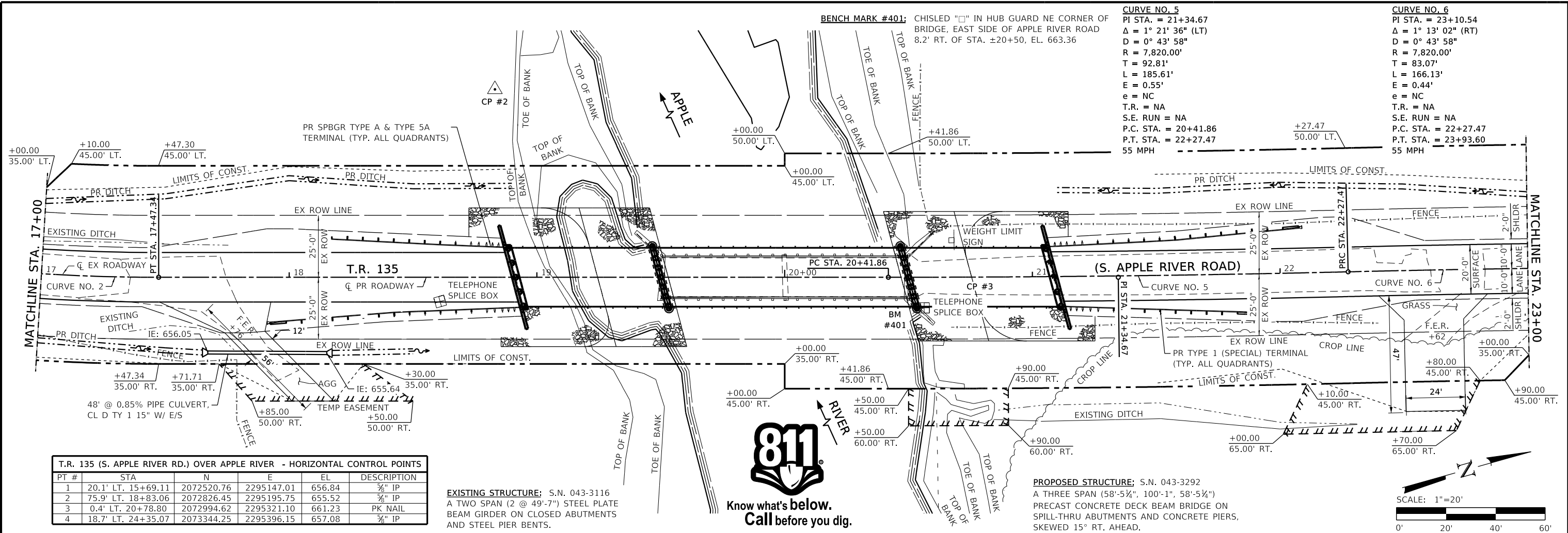
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135	17-23125-00-BR	JO DAVIESS	51	11
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

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	NOTE BOOK
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	STRUCTURE
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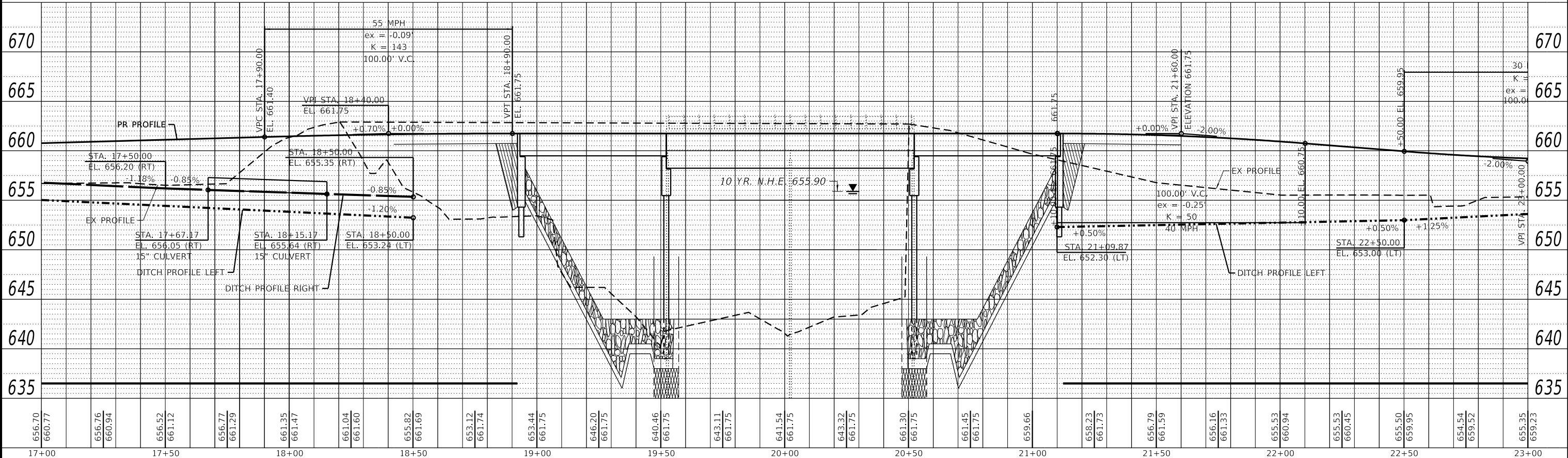
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PT #	STA	N	E	EL	DESCRIPTION
1	20.1' LT. 15+69.11	2072520.76	2295147.01	656.84	3/4" IP
2	75.9' LT. 18+83.06	2072826.45	2295195.75	655.52	3/4" IP
3	0.4' LT. 20+78.80	2072994.62	2295321.10	661.23	PK NAIL
4	18.7' LT. 24+35.07	2073344.25	2295396.15	657.08	3/4" IP

EXISTING STRUCTURE: S.N. 043-3116
 A TWO SPAN (2 @ 49'-7") STEEL PLATE
 BEAM GIRDER ON CLOSED ABUTMENTS
 AND STEEL PIER BENTS.

PROPOSED STRUCTURE: S.N. 043-3292
 A THREE SPAN (58'-5 1/2", 100'-1", 58'-5 1/2")
 PRECAST CONCRETE DECK BEAM BRIDGE ON
 SPILL-THRU ABUTMENTS AND CONCRETE PIERS,
 SKEWED 15° RT. AHEAD.



WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - DAN	REVISED -
CHECKED - PLP	REVISED -

DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - DAN	REVISED -
CHECKED - PLP	REVISED -

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

SCALE: 1" = 20'-0"	SHEET NO. 2 OF 4 SHEETS	STA. 17+00 TO STA. 23+00
--------------------	-------------------------	--------------------------

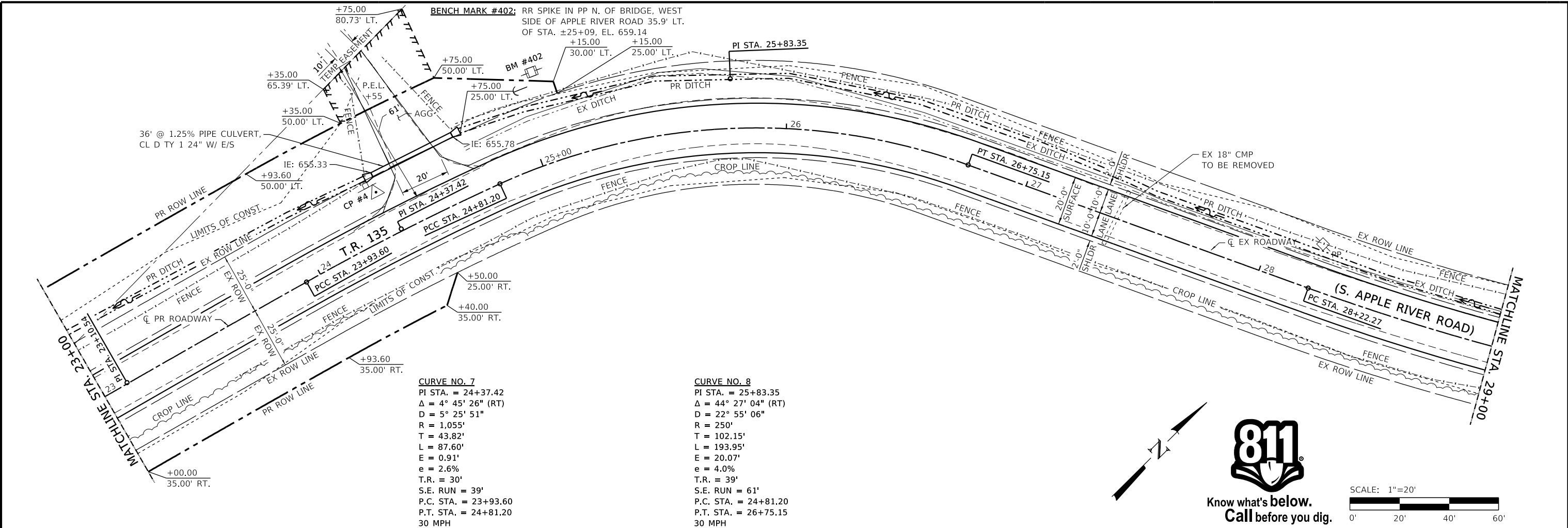
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135	17-23125-00-BR	JO DAVIESS	51	12
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

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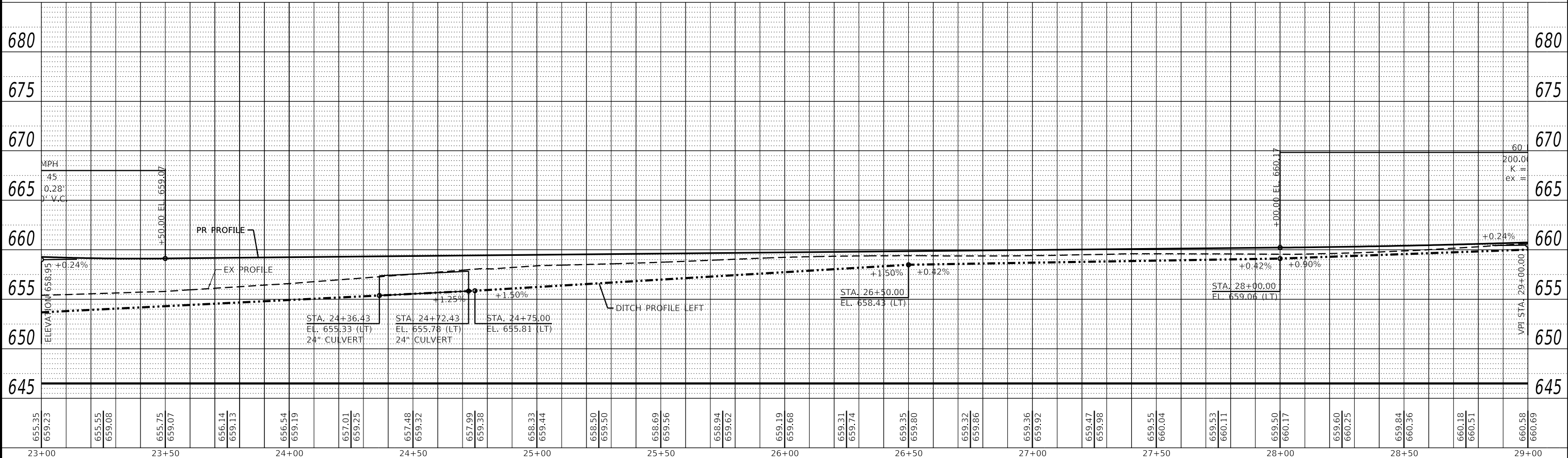
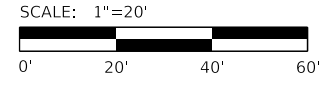
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PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

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Know what's below.
Call before you dig.



<p>WILLET HOFMANN & ASSOCIATES INC. ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3381 DESIGN FIRM: #184-000918</p>	DESIGNED - SM	REVISED -	<p>JO DAVIESS COUNTY T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER STATION 20+00</p>	<p>PLAN AND PROFILE</p>		T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - BKC	REVISED -		135	17-23125-00-BR	JO DAVIESS	51	13		
DRAWN - DAN	REVISED -	SCALE: 1" = 20'-0"		SHEET NO. 3 OF 4 SHEETS	STA. 23+00 TO STA. 29+00	WHA# 1329D17		CONTRACT NO. 85686		
CHECKED - PLP	REVISED -					ILLINOIS FED. AID PROJECT				

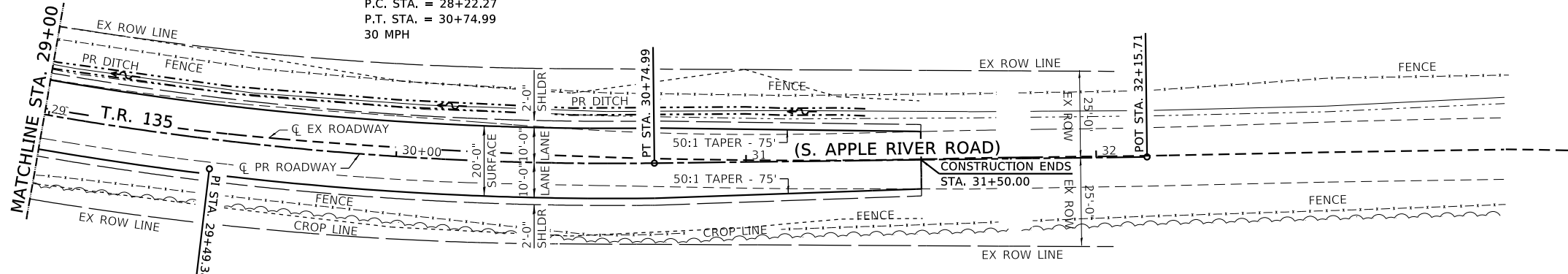
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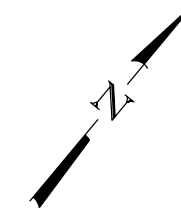
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 STA. 29+00 TO STA. 32+15.71

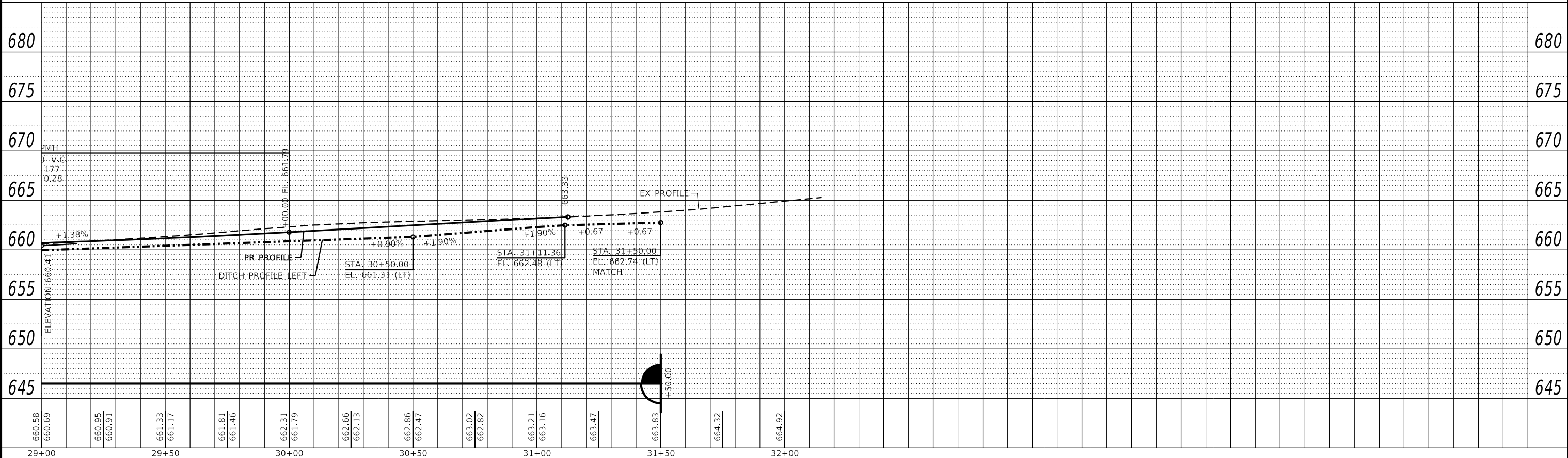
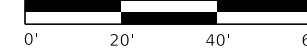
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 $\Delta = 15^\circ 14' 31''$ (LT)
 $D = 6^\circ 01' 52''$
 $R = 950'$
 $T = 127.11'$
 $L = 252.72'$
 $E = 8.47'$
 $e = 2.7\%$
 $T.R. = 30'$
 $S.E. RUN = 41'$
 $P.C. STA. = 28+22.27$
 $P.T. STA. = 30+74.99$
 30 MPH



Know what's below.
 Call before you dig.



SCALE: 1"=20'



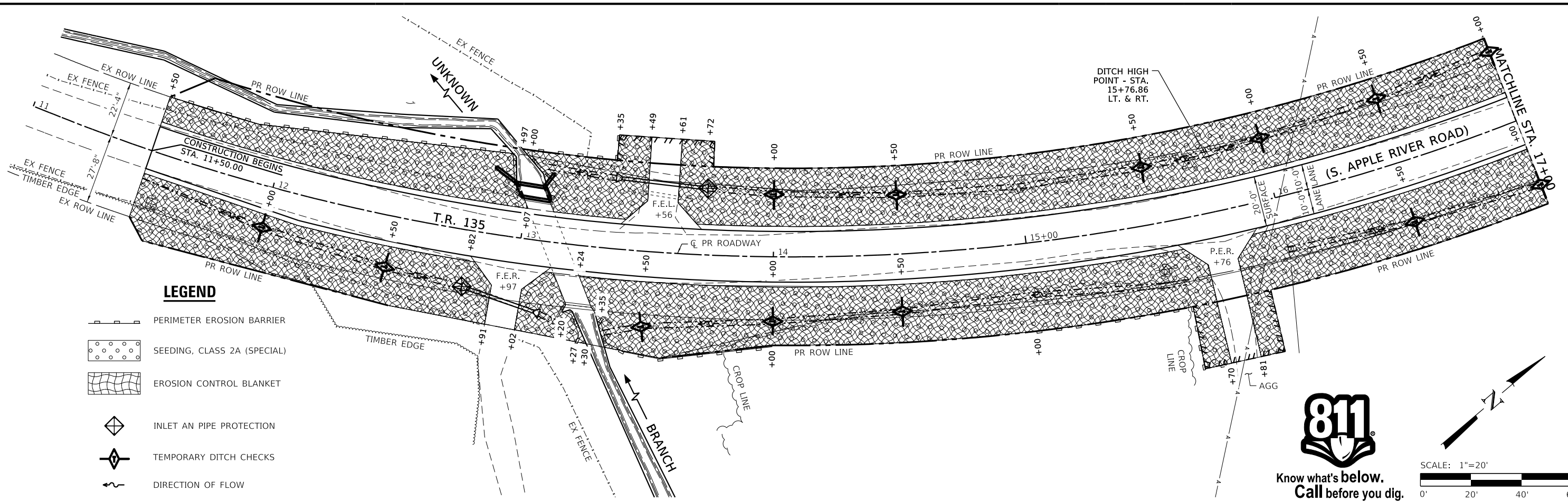
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CHECKED	- BKC	REVISED	-
DRAWN	- DAN	REVISED	-
CHECKED	- PLP	REVISED	-

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

PLAN AND PROFILE
 SCALE: 1" = 20'-0"
 SHEET NO. 4 OF 4 SHEETS
 STA. 29+00 TO STA. 32+15.71

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	14
WHA# 1329017		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

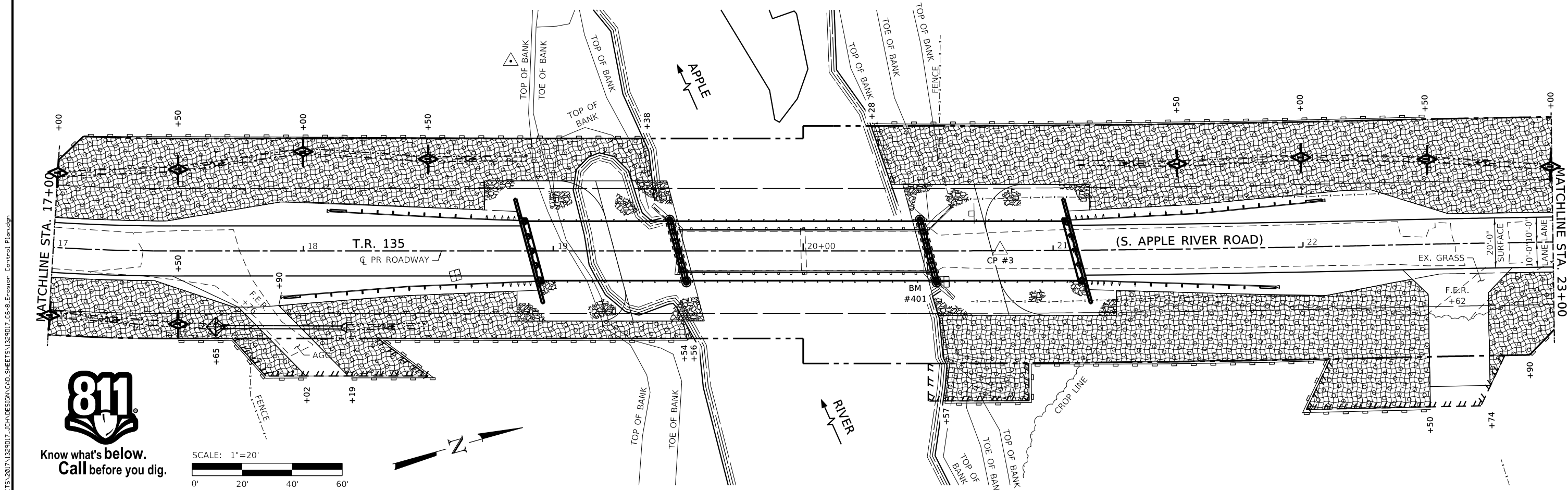
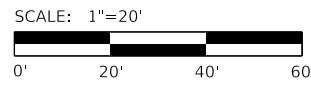
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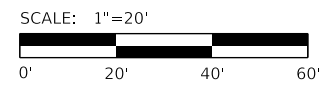
- LEGEND**
- PERIMETER EROSION BARRIER
 - SEEDING, CLASS 2A (SPECIAL)
 - EROSION CONTROL BLANKET
 - INLET AND PIPE PROTECTION
 - TEMPORARY DITCH CHECKS
 - DIRECTION OF FLOW



Know what's below.
Call before you dig.



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WILLET HOFMANN & ASSOCIATES INC.
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

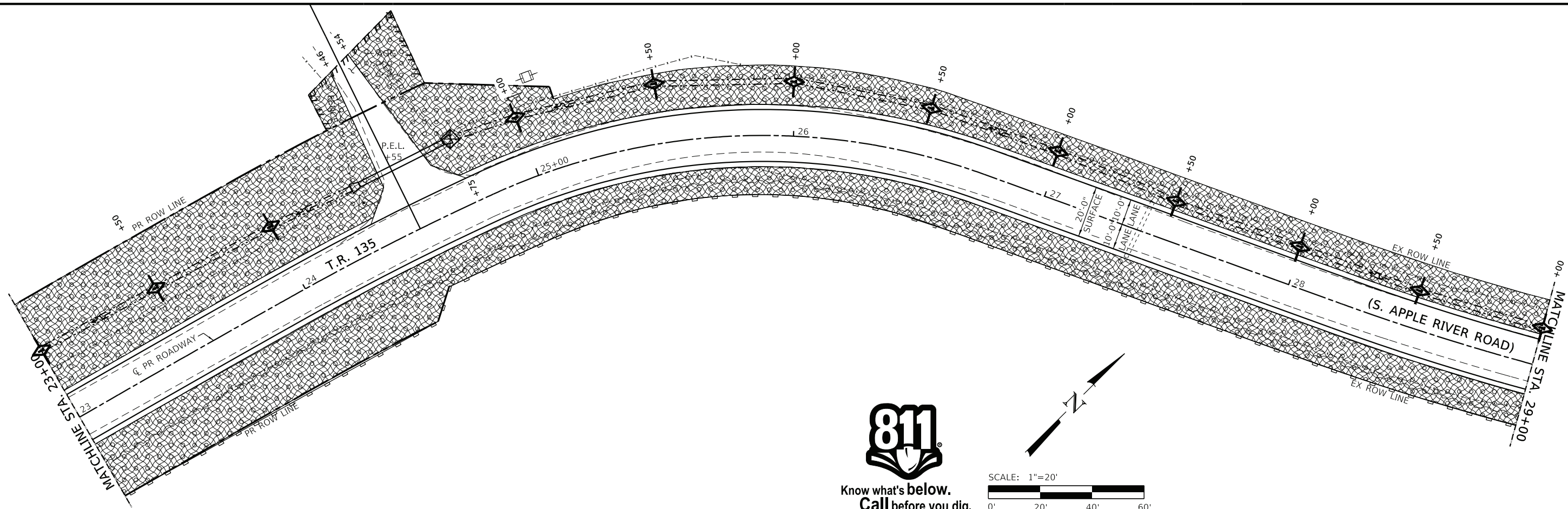
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CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - PLP	REVISED -

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

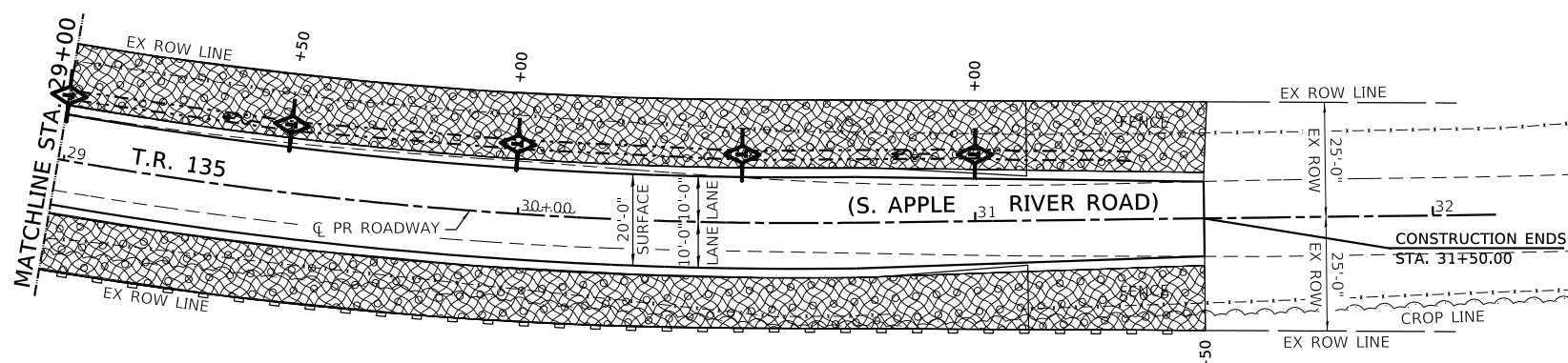
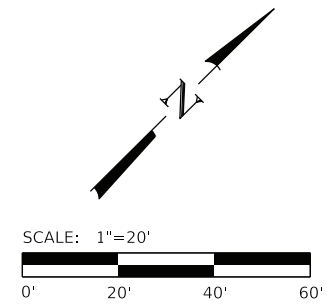
EROSION CONTROL PLAN

SCALE: 1" = 20'-0" SHEET NO. 1 OF 3 SHEETS STA. 11+00 TO STA. 23+00

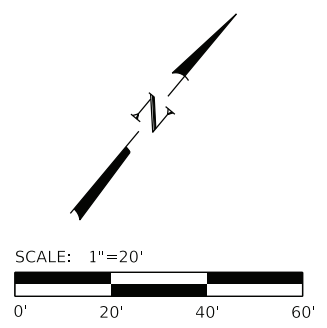
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	15
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				



811
Know what's below.
Call before you dig.



811
Know what's below.
Call before you dig.



- LEGEND**
- PERIMETER EROSION BARRIER
 - SEEDING, CLASS 2A (SPECIAL)
 - EROSION CONTROL BLANKET
 - INLET AND PIPE PROTECTION
 - TEMPORARY DITCH CHECKS
 - DIRECTION OF FLOW

WILLET HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - PLP	REVISED -

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

EROSION CONTROL PLAN
SCALE: 1" = 20'-0" SHEET NO. 2 OF 3 SHEETS STA. 23+00 TO STA. 32+15.71

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	16
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

STORM WATER POLLUTION PREVENTION PLAN

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPORATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM SEWER WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER, THEREFORE MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SECTION 280, TEMPORARY EROSION CONTROL, OF THE STANDARD SPECIFICATIONS ADDITIONALLY SUPPLEMENTS THIS PLAN.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

1. THE PROJECT CONSISTS OF A BRIDGE REPLACEMENT ON T.R. 135 OVER S. APPLE RIVER ROAD & APPROACH ROADWAY WORK THERETO.
2. CONSTRUCTION INCLUDES EARTH EXCAVATION, ENTRANCES, CHANNEL EXCAVATION, VARIOUS PAVEMENT ITEMS, CULVERT ITEMS AND OTHER MISCELLANEOUS ITEMS OF CONSTRUCTION.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOILS FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

1. EARTH EXCAVATION.
2. CHANNEL EXCAVATION.
3. FURNISHED EXCAVATION.
4. ROADWAY AGGREGATE BASE AND SHOULDERS
5. PLACEMENT OF PERMANENT EROSION CONTROL INCLUDING SEEDING AND RIPRAP.

AREA OF CONSTRUCTION SITE:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 3.29 ACRES OF WHICH 3.05 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING, AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. INFORMATION OF THE SOILS AND TERRAIN WITHIN THE SITE WAS OBTAINED FROM SOIL BORINGS THAT WERE UTILIZED FOR THE DEVELOPMENT OF THE PROPOSED TEMPORARY EROSION CONTROL SYSTEMS.
2. PROJECT PLAN DOCUMENTS, SPECIFICATIONS AND SPECIAL PROVISIONS, AND PLAN DRAWINGS INDICATING DRAINAGE PATTERNS AND APPROXIMATE SLOPES ANTICIPATED AFTER GRADING ACTIVITIES WERE UTILIZED FOR THE PROPOSED PLACEMENT OF THE TEMPORARY EROSION CONTROL SYSTEMS.

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

5. APPLE RIVER AND AN UNKNOWN BRANCH OF S. APPLE RIVER

CONTROLS – EROSION CONTROLS AND SEDIMENT CONTROL

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION.

1. THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, PERIMETER EROSION BARRIER, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

- (A) AREAS OF EXISTING VEGETATION (WOOD AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
- (B) DEAD, DISEASED, OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER, ALONG WITH REQUIRED TREE REMOVAL.

- (C) AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY DITCH CHECKS AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THIS PLAN AND DIRECTED BY THE ENGINEER.
 - (D) BARE AND SPARSELY VEGETATED GROUND IN HIGHLY ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN 7 DAYS.
 - (E) AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE FROM OUTSIDE AREAS (ADJACENT LANDOWNERS), TEMPORARY DITCH CHECKS WILL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES, AND COLLECT OUTSIDE SILTATION INSIDE THE RIGHT-OF-WAY LINE.
2. ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVER SEEDING CAN BE COMPLETED.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS AND DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
 - (A) WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
 - (B) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN 14 DAYS.
 - (C) AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:
 - I. PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
 - II. TEMPORARILY SEED ERODIBLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODIBLE SURFACE AREA WITHIN THE CONTRACT LIMITS.
 - (D) EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 7 DAYS.
 - (E) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
 - (F) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 INCH OR GREATER OR EQUIVALENT SNOWFALL DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.
 - (G) SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.
 - (H) THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING

1. TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED.
2. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP, AND DISTURBED TURF RESEEDED.

MAINTENANCE AFTER CONSTRUCTION

1. CONSTRUCTION IS COMPLETE AFTER ESTABLISHED GROWTH & DIRECTED TO REMOVE EROSION CONTROL.

MISCELLANEOUS

ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO THE APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT AND THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.



DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - PLP	REVISED -

**JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00**

EROSION CONTROL PLAN

SHEET NO. 3 OF 3 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	17
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

EXISTING STRUCTURE: S.N. 043-3116 originally built in 1953 as a Two Span steel beams on closed timber abutments. To be removed.

BENCH MARK #401: Chis. "□" in the Hub Guard NE Corner of bridge, east side of Apple River Road 8.2' Rt. of Sta. ±20+50, El. 663.36

BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUB.	SUPER.	TOTAL
Channel Excavation	Cu Yd	2,002		2,002
Stone Riprap, Class A7	Sq Yd	843		843
Filter Fabric	Sq Yd	843		843
Removal Of Existing Structures	Each		1	1
Structure Excavation	Cu Yd	41		41
Cofferdam Excavation	Cu Yd	302		302
Cofferdam (Type 2) (Location - 1)	Each	1		1
Cofferdam (Type 2) (Location - 2)	Each	1		1
Concrete Structures	Cu Yd	134.6		134.6
Seal Coat Concrete	Cu Yd	132		132
Concrete Encasement	Cu Yd	4		4
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq Ft		2,832	2,832
Precast Prestressed Concrete Deck Beams (42" Depth)	Sq Ft		2,400	2,400
Reinforcement Bars, Epoxy Coated	Pound	12,180		12,180
Steel Railing, Type SM	Foot		440	440
Furnishing Steel Piles HP12x53	Foot	468		468
Driving Piles	Foot	468		468
Test Pile Steel HP12x53	Each	4		4
Name Plates	Each	1		1
Portland Cement Mortar Fairing Course	Foot		1,527	1,527
Granular Backfill For Structures	Cu Yd	88		88
Geocomposite Wall Drain	Sq Yd	52		52
Pipe Underdrains For Structures 4"	Foot	114		114

*See Special Provisions

GENERAL NOTES

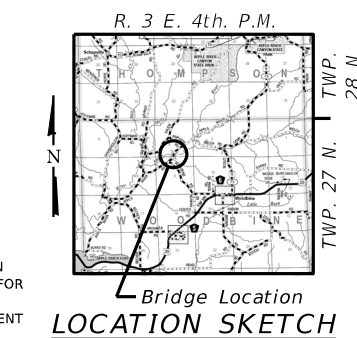
Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 The channel shall be transitioned to fit the proposed structure inside the Right of Way. Cost shall be included in price per Cubic Yard for Channel Excavation
 Contractor shall not have any equipment on existing structure at any time.
 The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this.
 The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.

DESIGN SCOUR ELEVATION TABLE

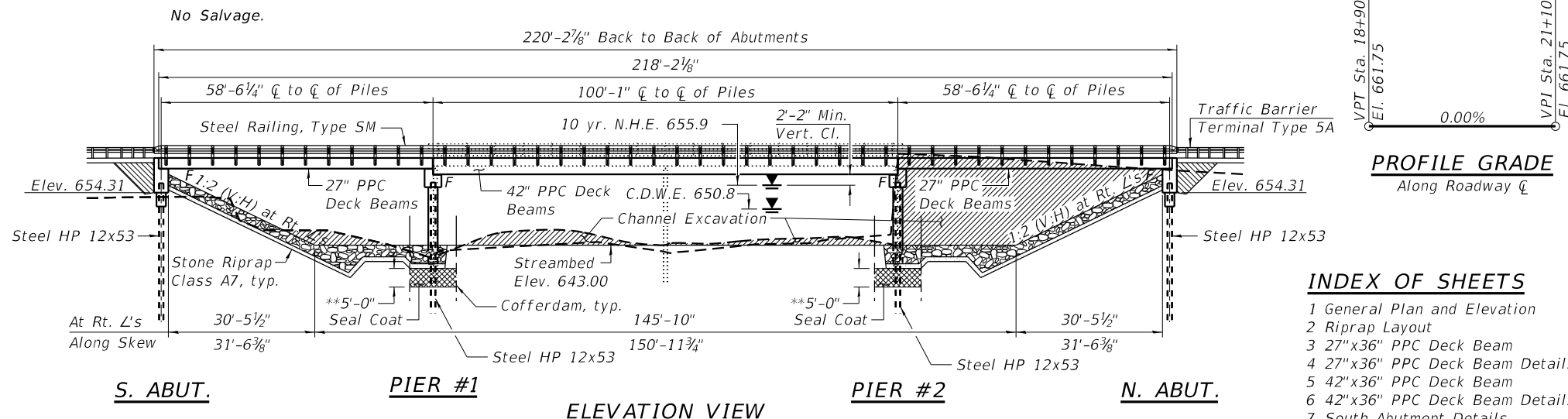
Event / Limit	Design Scour Elevations (ft.)				
	State	N. Abut.	Pier 1	Pier 2	S. Abut.
Q100	637.94	642.81	642.16	645.45	5
Q200	637.09	643.77	643.19	642.14	
Design	658.23	635.00	635.00	658.23	
Check	658.23	635.00	635.00	658.23	

WATERWAY INFORMATION

Drainage Area = 126.5 sq. mi.		Low Grade El. 659.46 @ Sta. 26+40.31							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	10	7,960	1,073	1460	655.9	0.7	0.5	656.6	656.4
Base	100	14,700	1264	1860	657.9	0.8	0.8	658.7	658.7



GENERAL PLAN AND ELEVATION
T.R. 135 (S. APPLE RIVER ROAD)
OVER APPLE RIVER
SECTION 17-23125-00-BR
WOODBINE TOWNSHIP
JO DAVIESS COUNTY
STATION 20+00
STRUCTURE NO. 043-3292



INDEX OF SHEETS

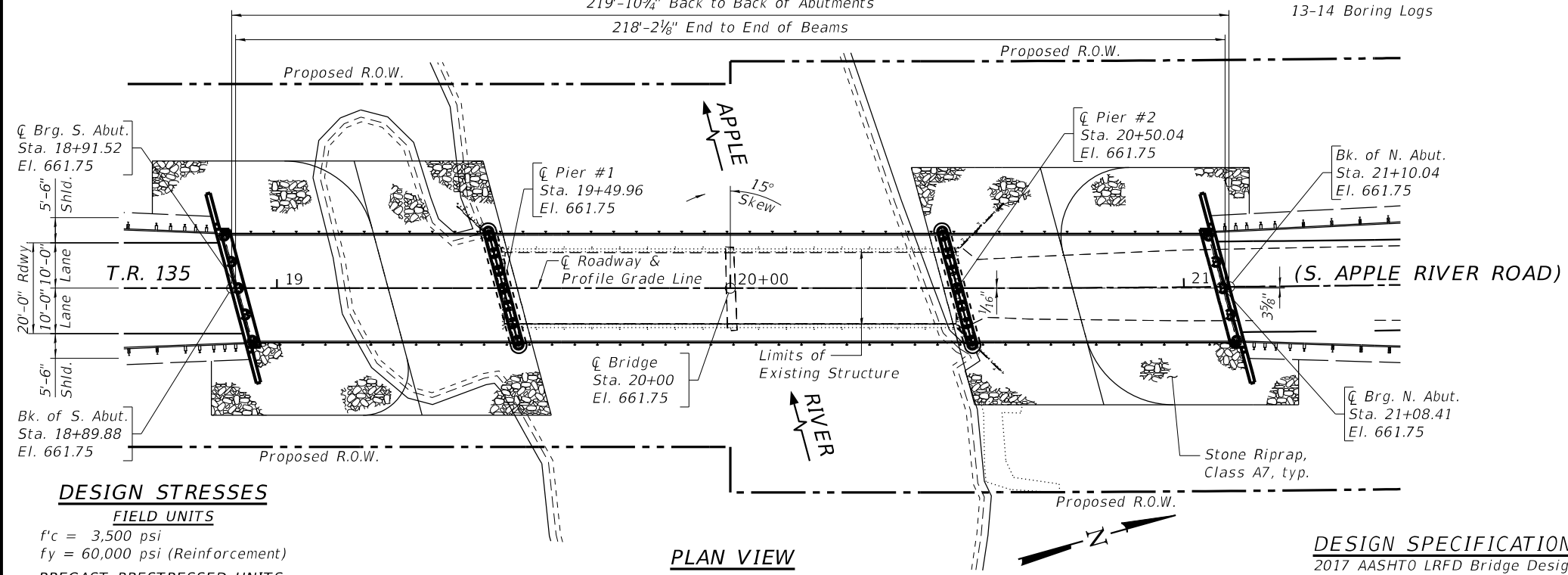
- 1 General Plan and Elevation
- 2 Riprap Layout
- 3 27"x36" PPC Deck Beam
- 4 27"x36" PPC Deck Beam Details
- 5 42"x36" PPC Deck Beam
- 6 42"x36" PPC Deck Beam Details
- 7 South Abutment Details
- 8 North Abutment Details
- 9 Pier #1 Details
- 10 Pier #2 Details
- 11 Steel Railing, Type SM Details
- 12 HP Pile Details
- 13-14 Boring Logs

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.072g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.104g
 Soil Site Class = D

LOADING HL-93

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

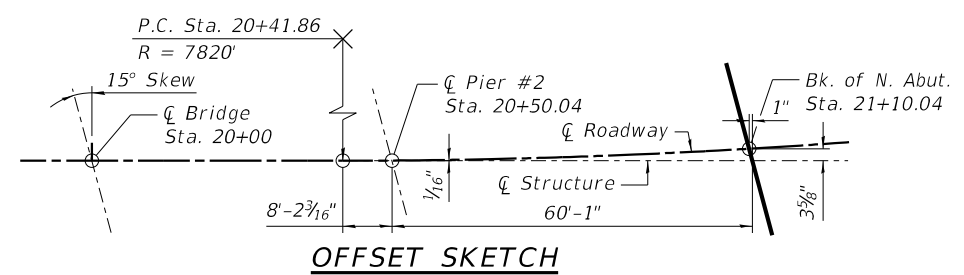


PLAN VIEW

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

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
 fpu = 270,000 psi (1/2" Ø Low Lax Strands)
 fpbt = 201,960 psi (1/2" Ø Low Lax Strands)



OFFSET SKETCH

APPLE RIVER
 BUILT 2021 BY
 JO DAVIESS COUNTY
 SECTION 17-23125-00-BR
 T.R. 135 STATION 20+00
 STR. NO. 043-3292 LOADING HL-93

NAME PLATE LETTERING
 Refer To Std. 51500

STATE OF ILLINOIS
 REGISTERED PROFESSIONAL ENGINEER
 DION N. HOFMANN
 DATE: 12-4-2020
 EXPIRES 11/30/22

"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 COMPLIES WITH REQUIREMENTS OF THE CURRENT 'AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES'."

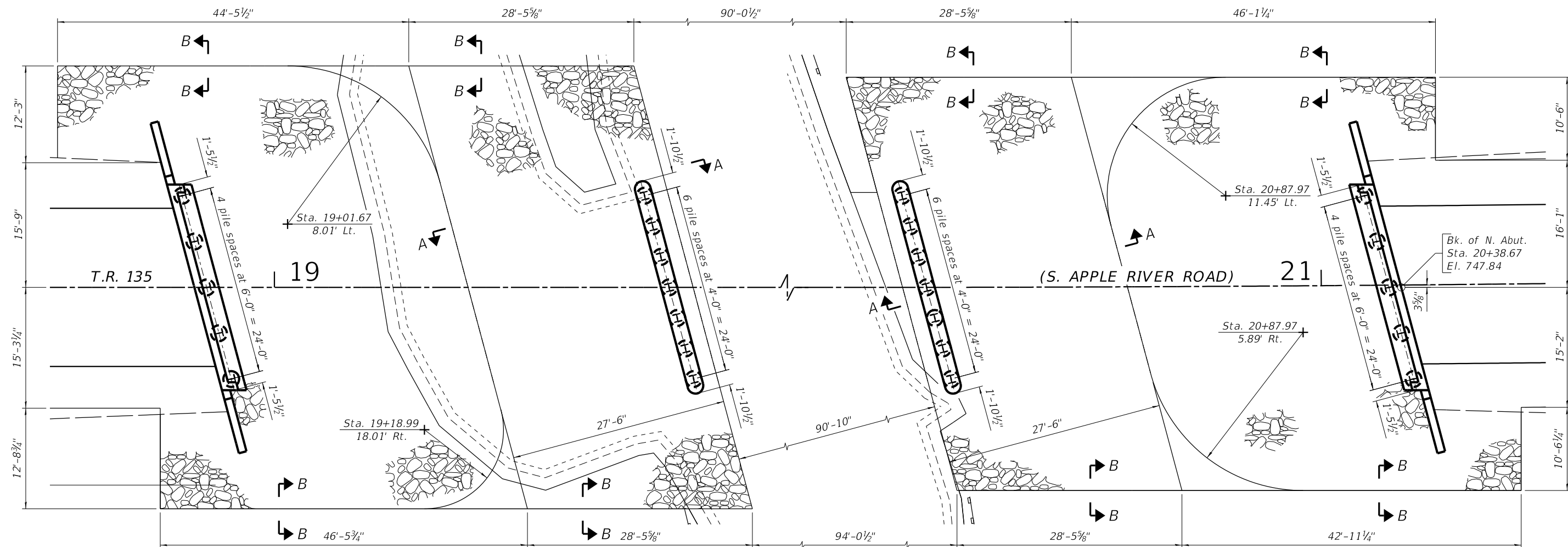


DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - PLP	REVISED -

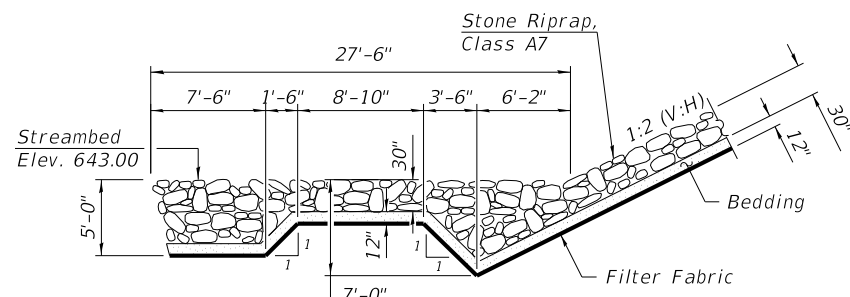
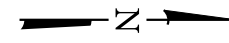
JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

STRUCTURAL SHEET NO. 1 OF 14 SHEETS

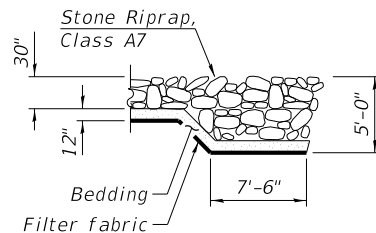
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	18
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				



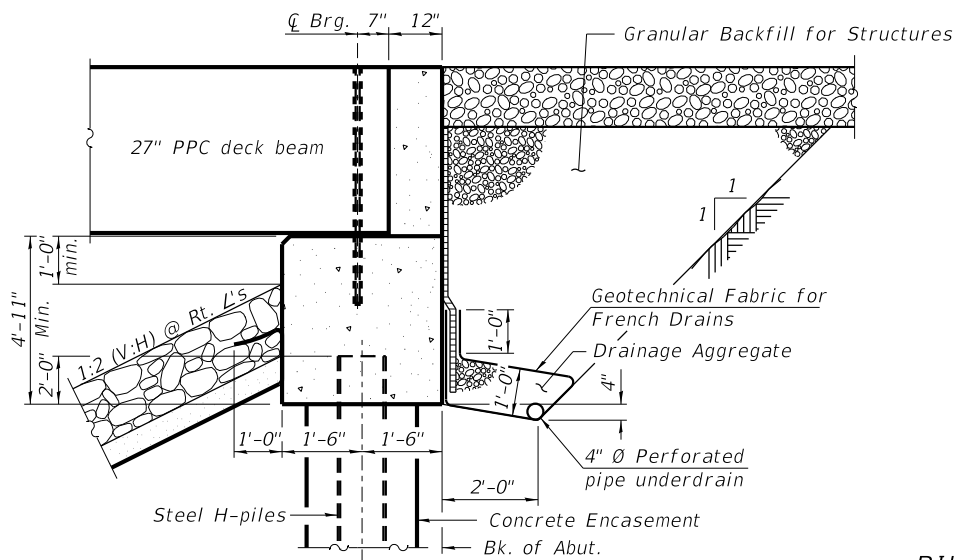
PLAN VIEW
(All dimensions are based off of ζ of Structure)



SECTION A-A



SECTION B-B



SECTION THRU ABUTMENT
(Horiz. dim. @ Rt. L's)

BILL OF MATERIAL

Item	Unit	Quantity
Stone Riprap, Class A7	Sq. Yd.	843
Filter Fabric	Sq. Yd.	843

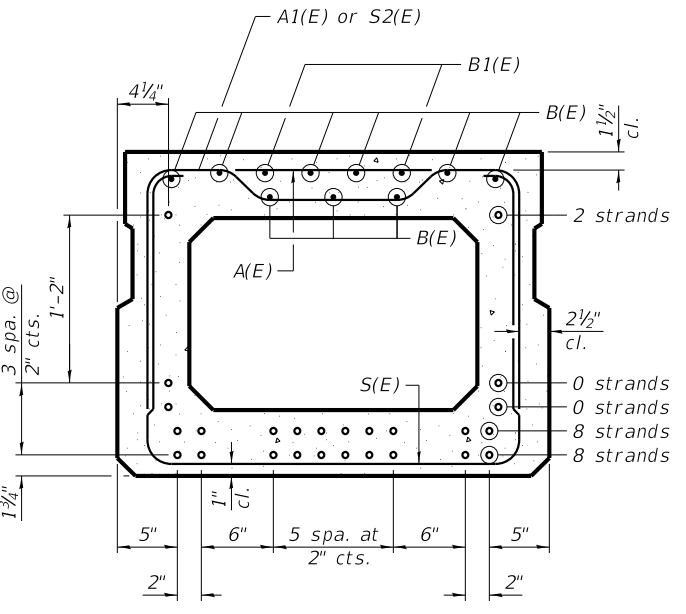
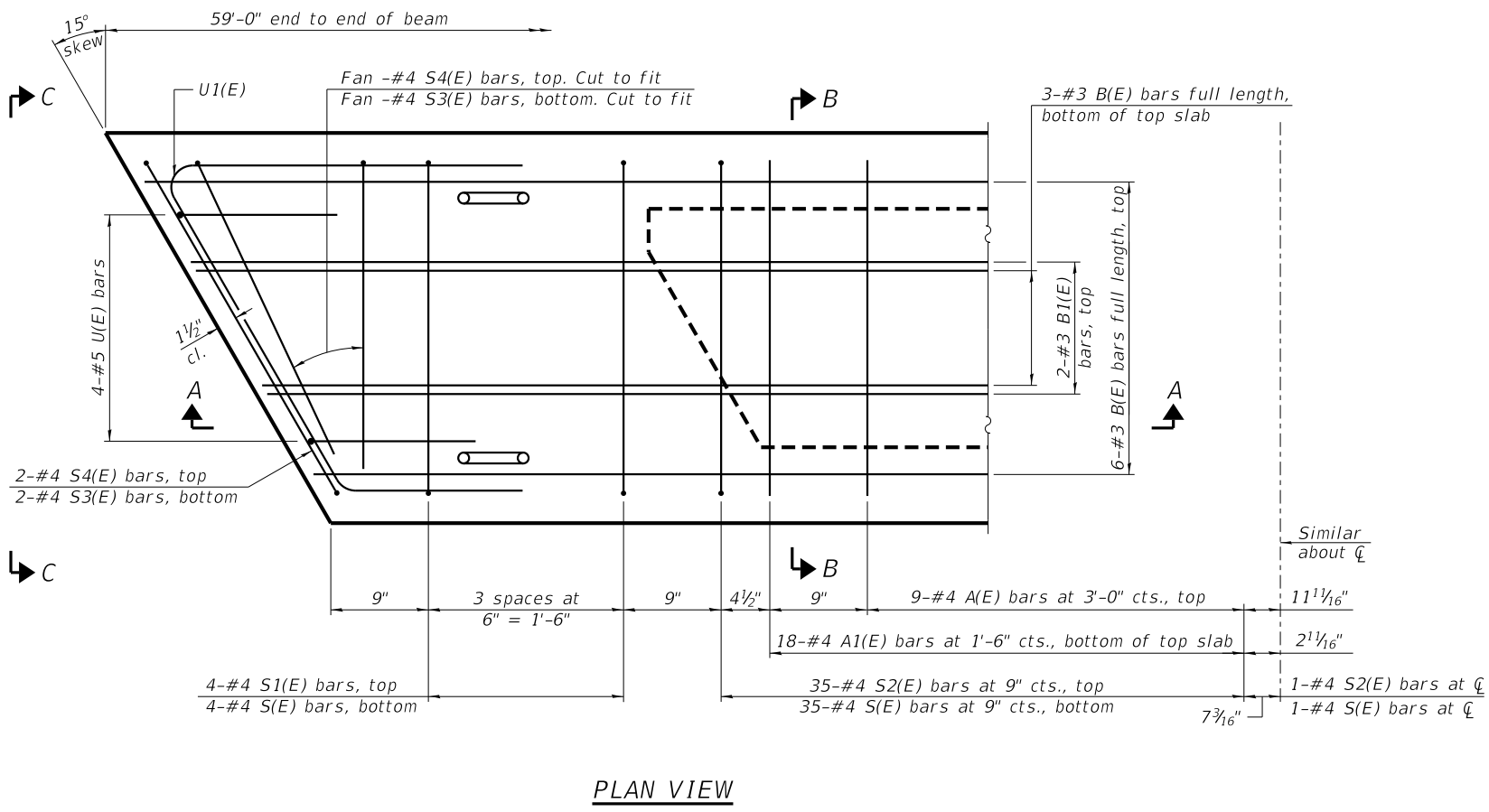
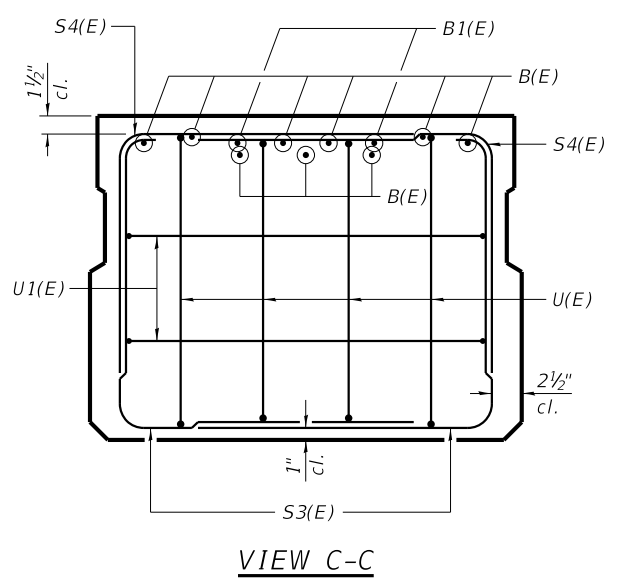
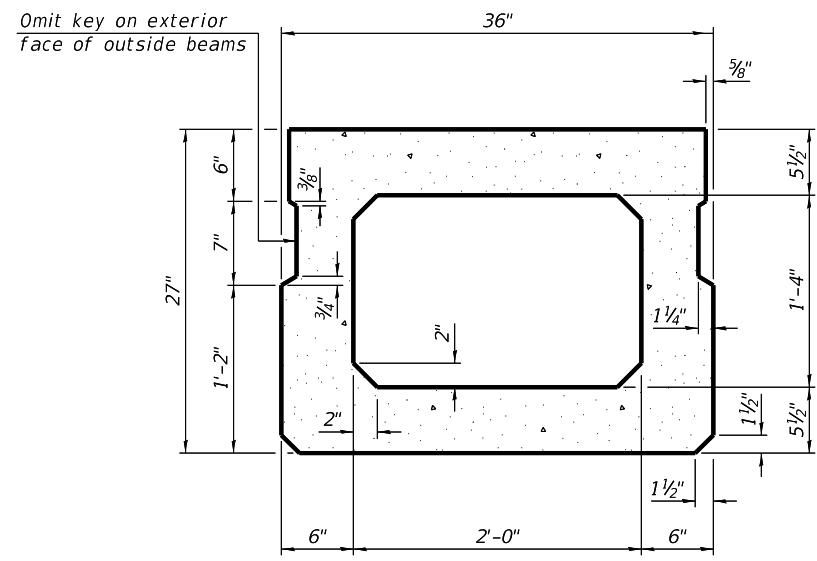
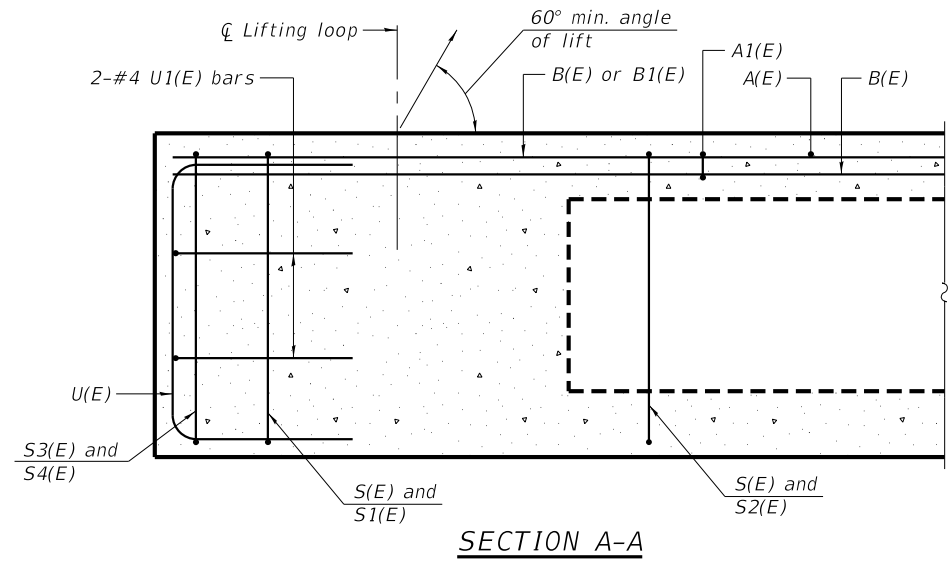


DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - PLP	REVISED -

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

RIPRAP AND PILE LAYOUT
STRUCTURE NO. 043-3292
STRUCTURAL SHEET NO. 2 OF 14 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	19
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				



BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	18	#4	2'-7"	—
A1(E)	36	#4	2'-10"	—
B(E)	18	#3	30'-1"	—
B1(E)	4	#3	10'-0"	—
S(E)	79	#4	7'-5"	U
S1(E)	8	#4	5'-11"	U
S2(E)	71	#4	6'-2"	U
S3(E)	8	#4	5'-2"	J
S4(E)	8	#4	4'-5"	J
U(E)	8	#5	4'-6"	C
U1(E)	4	#4	5'-11"	C

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

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

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

MINIMUM BAR LAP
#3 bar = 1'-6"

NOTE:
See structural sheet 4 of 14 for additional details and Bill of Material.

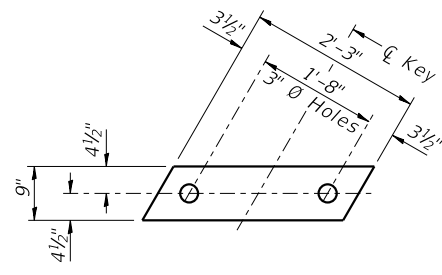


DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - PLP	REVISED -

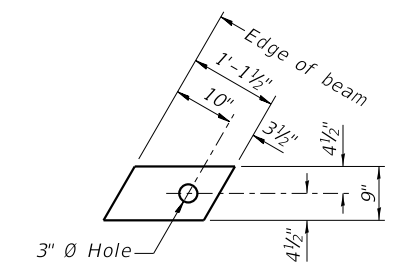
JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

27" x 36" PPC DECK BEAM
STRUCTURE NO. 043-3292
STRUCTURAL SHEET NO. 3 OF 14 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	20
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				



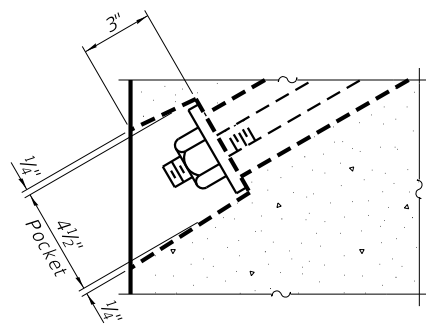
FABRIC BEARING PAD
(Interior)



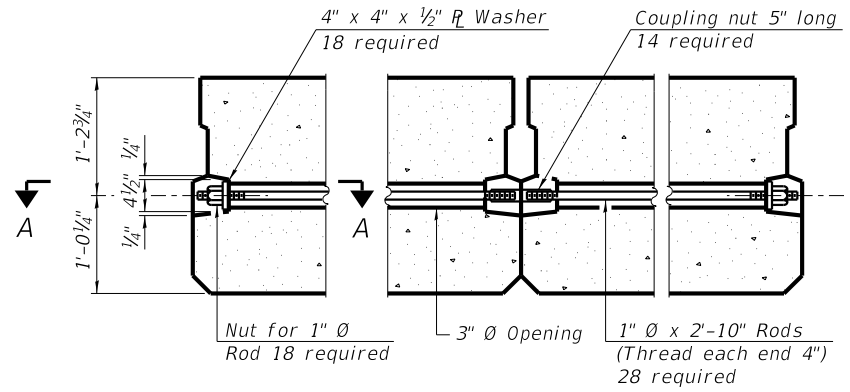
FABRIC BEARING PAD
(Exterior)

FIXED

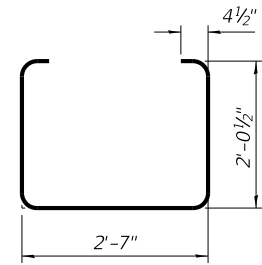
NOTES:
All bearing pads shall be 1" thick.



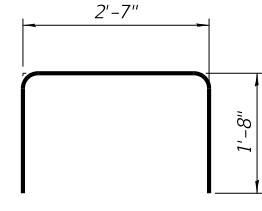
SECTION A-A



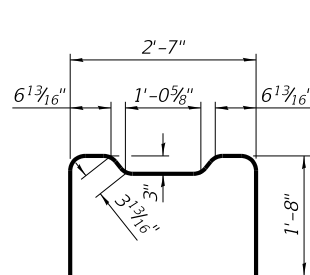
TYPICAL TRANSVERSE TIE ASSEMBLY



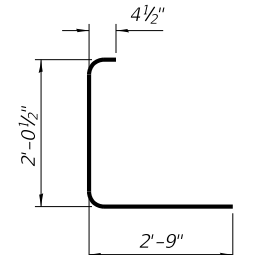
BAR S(E)



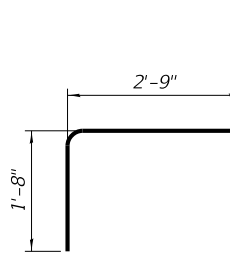
BAR S1(E)



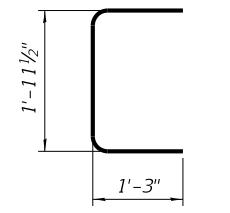
BAR S2(E)



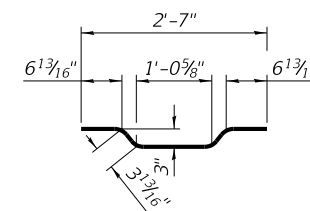
BAR S3(E)



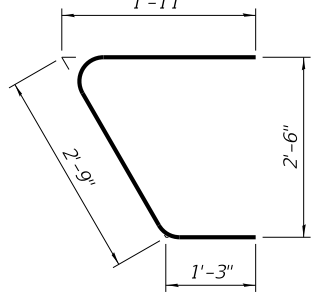
BAR S4(E)



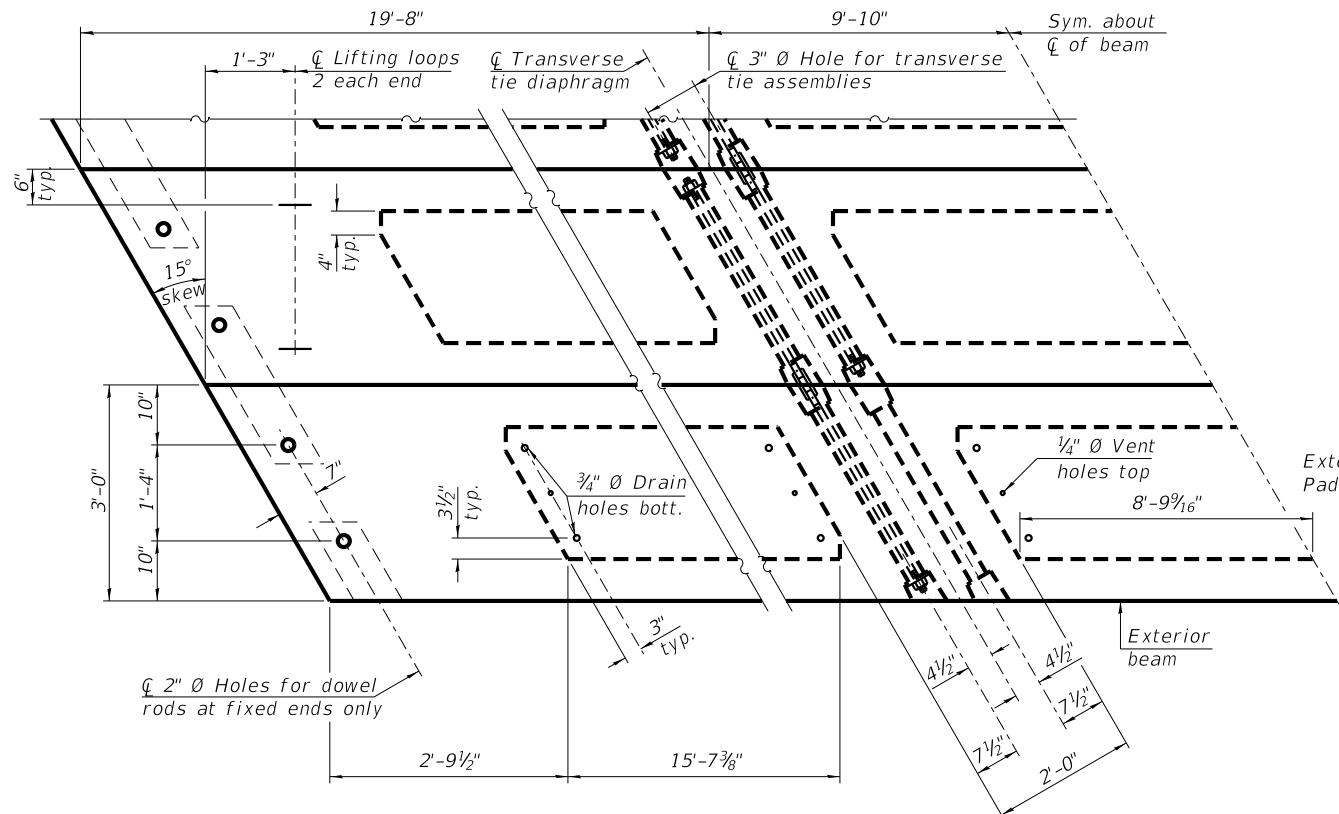
BAR U(E)



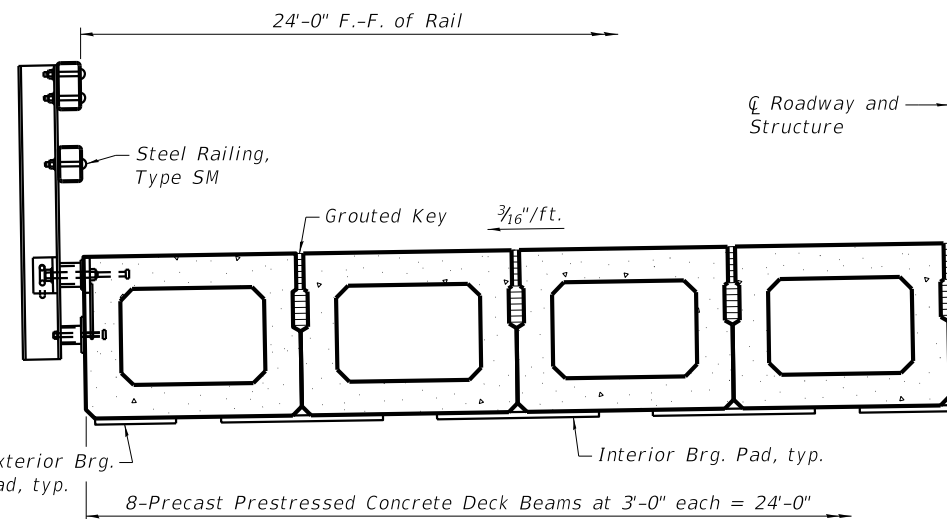
BAR A1(E)



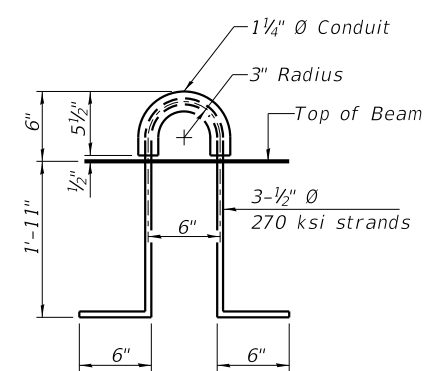
BAR U1(E)



PLAN VIEW



HALF CROSS SECTION
(Looking North)



LIFTING LOOP DETAIL

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

NOTES:
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	2,832
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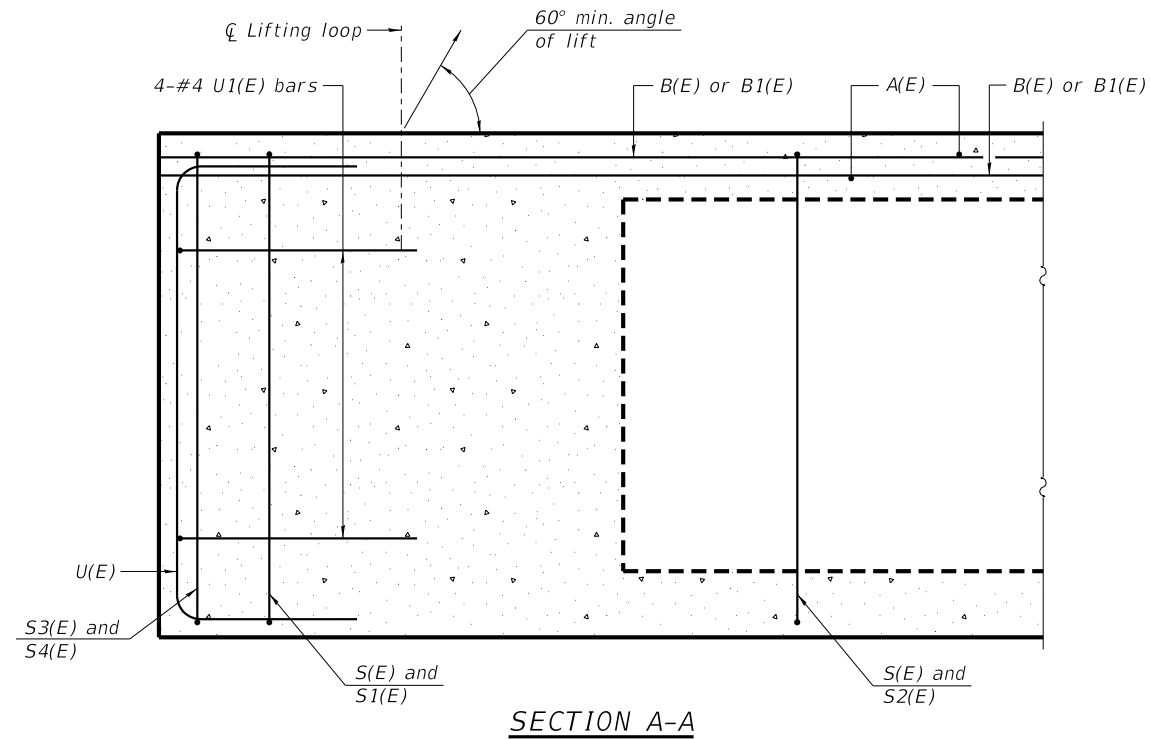


DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - PLP	REVISED -

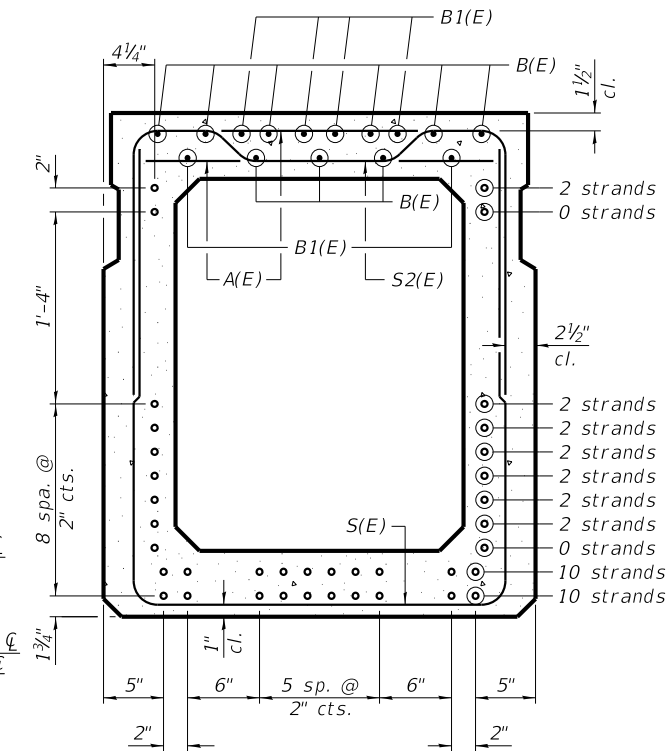
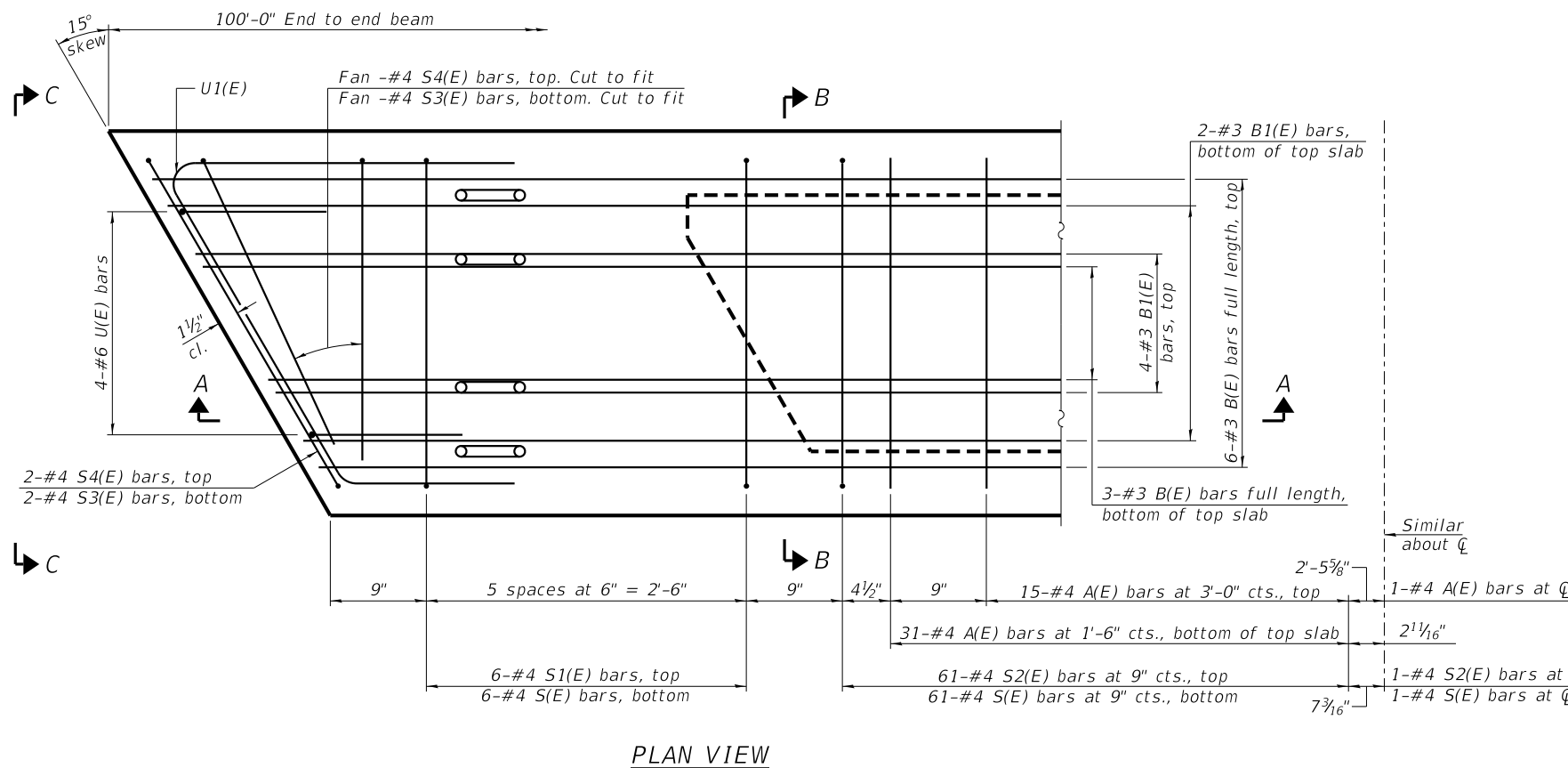
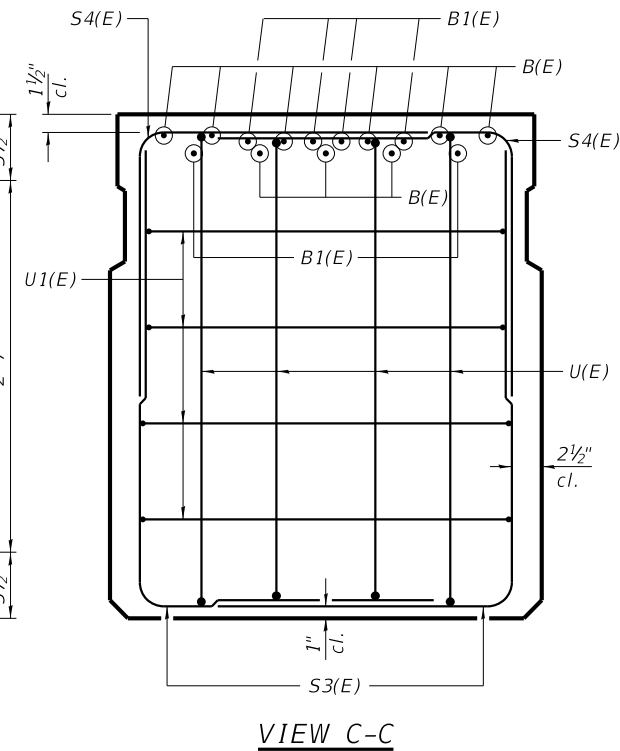
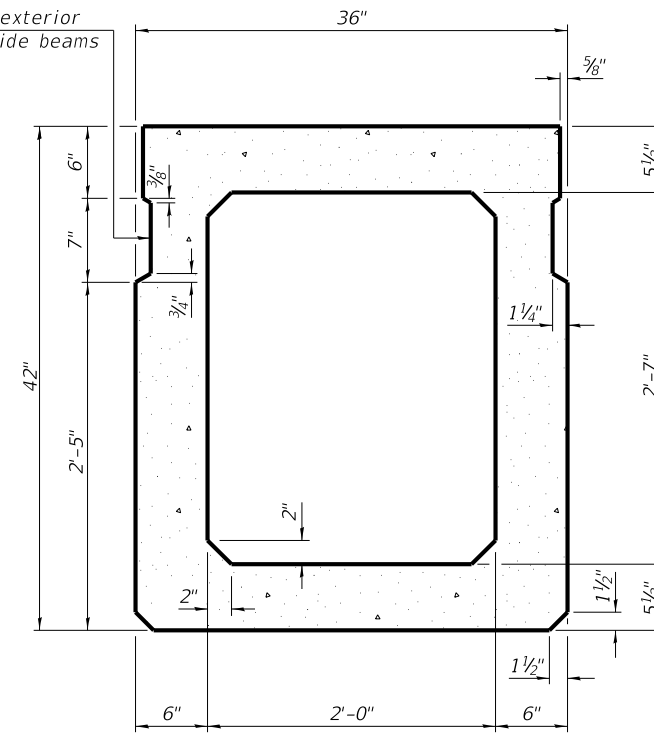
JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

27" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 043-3292
STRUCTURAL SHEET NO. 4 OF 14 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	21
WHA# 1329017		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				



Omit key on exterior face of outside beams



BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	93	#4	2'-7"	—
B(E)	27	#3	34'-3"	—
B1(E)	12	#3	10'-0"	—
S(E)	135	#4	9'-2"	U
S1(E)	12	#4	6'-5"	U
S2(E)	123	#4	6'-8"	U
S3(E)	8	#4	6'-1"	U
S4(E)	8	#4	4'-8"	U
U(E)	8	#6	5'-9"	U
U1(E)	8	#4	5'-11"	U

NOTE:
See structural sheet 6 of 14 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
#3 bar = 1'-6"

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

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



DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - PLP	REVISED -

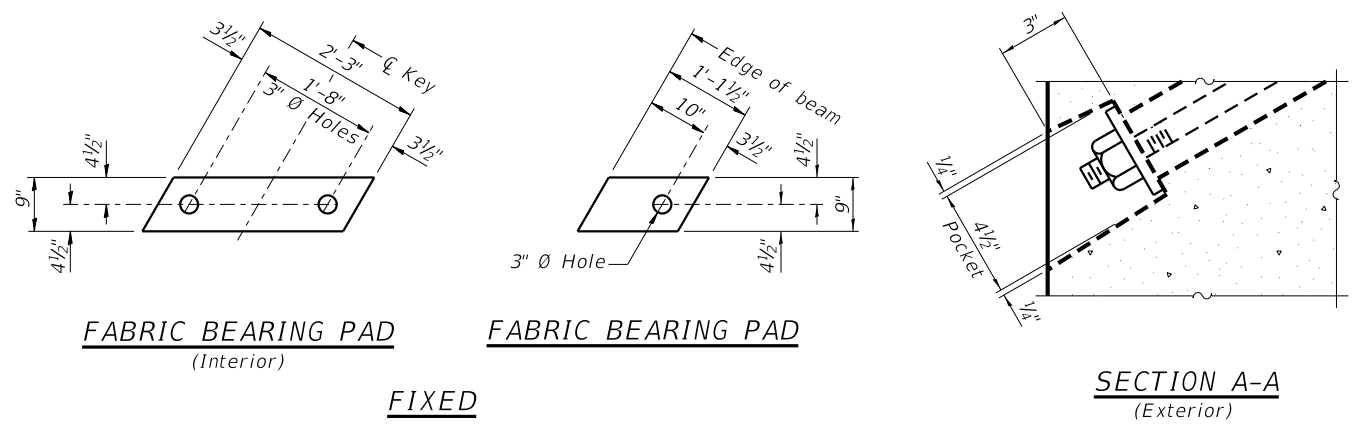
JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

42" x 36" PPC DECK BEAM
STRUCTURE NO. 043-3292

STRUCTURAL SHEET NO. 5 OF 14 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	22
WHA# 1329D17		CONTRACT NO. 85686		

ILLINOIS FED. AID PROJECT



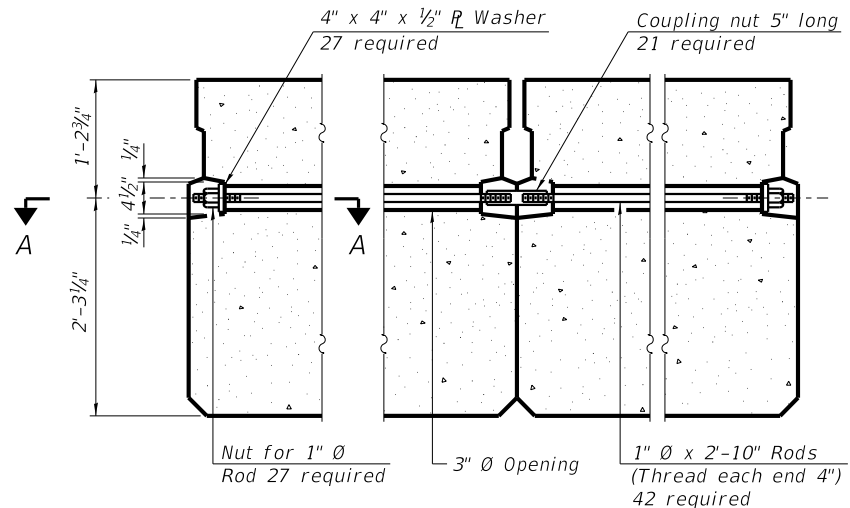
FABRIC BEARING PAD
(Interior)

FABRIC BEARING PAD
(Exterior)

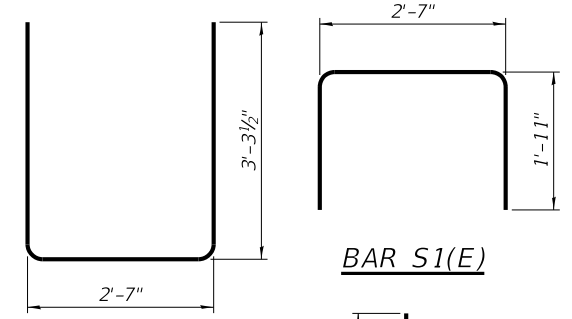
SECTION A-A
(Exterior)

FIXED

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

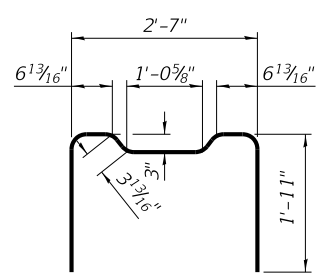


TYPICAL TRANSVERSE TIE ASSEMBLY



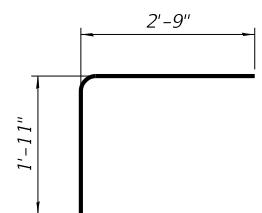
BAR S(E)

BAR S1(E)



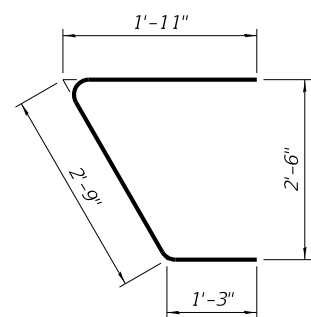
BAR S2(E)

BAR S3(E)

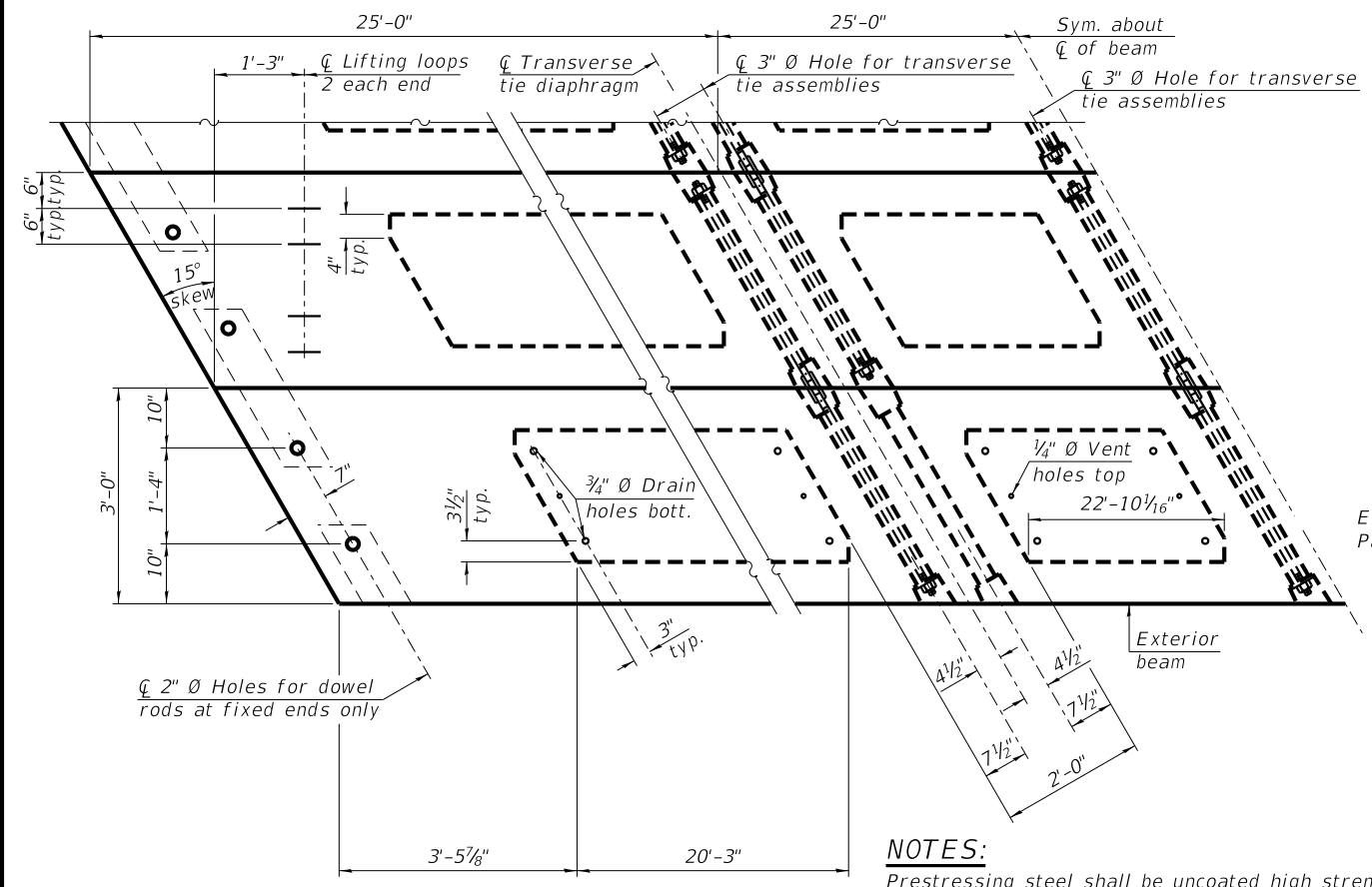


BAR S4(E)

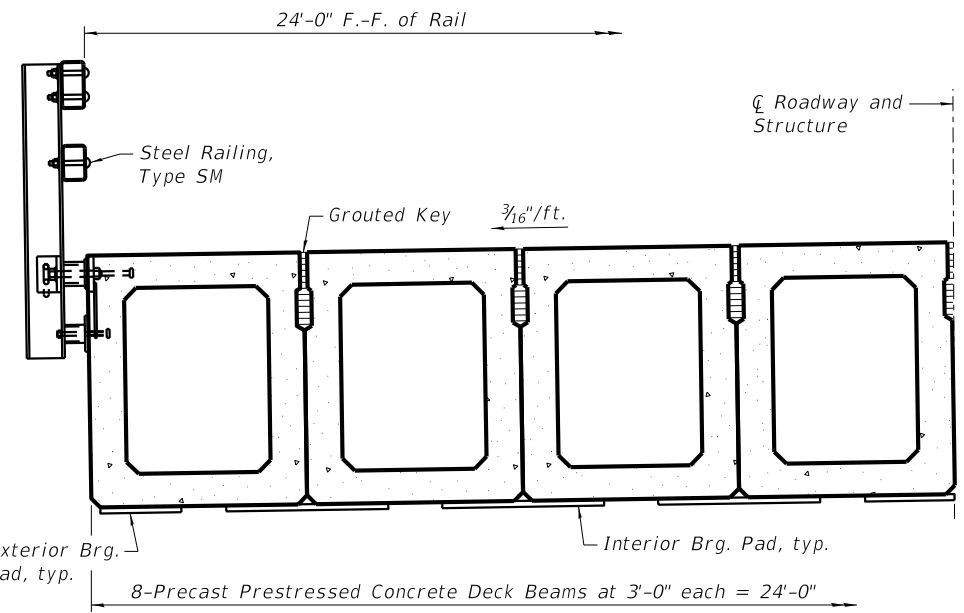
BAR U(E)



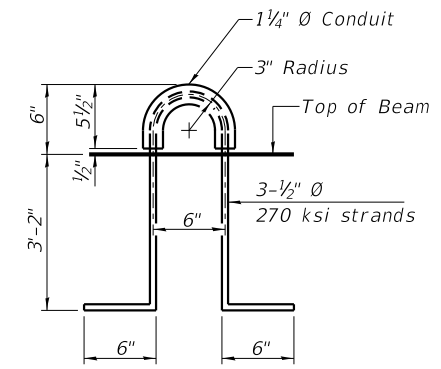
BAR U1(E)



PLAN VIEW



HALF CROSS SECTION
(Looking North)



LIFTING LOOP DETAIL

NOTES:
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" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
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" Ø 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (42" depth)	Sq. Ft.	2,400
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DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - PLP	REVISED -

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

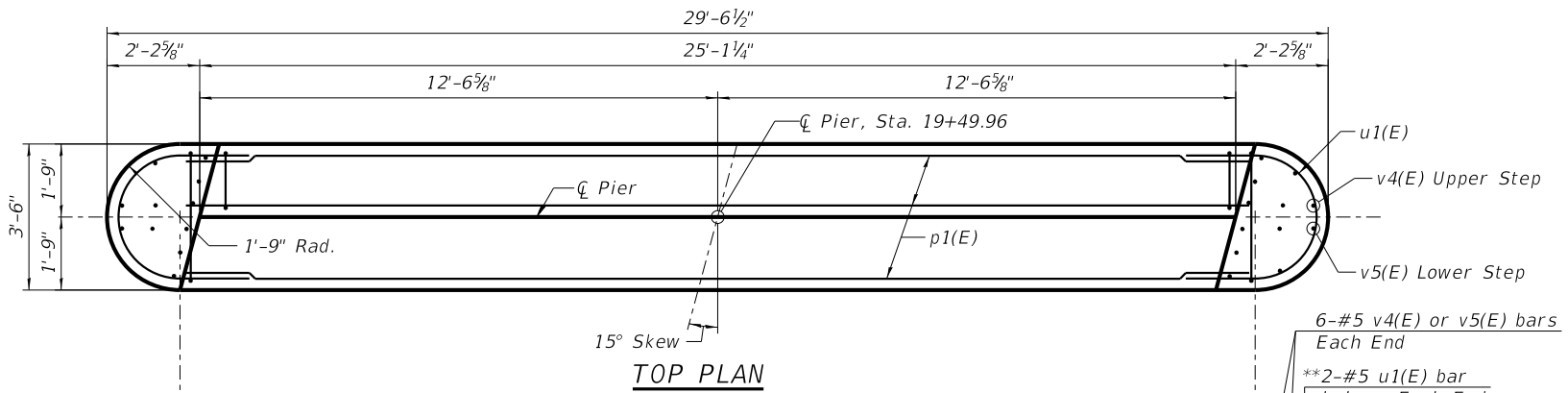
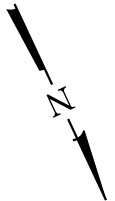
42" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 043-3292
STRUCTURAL SHEET NO. 6 OF 14 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	23
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

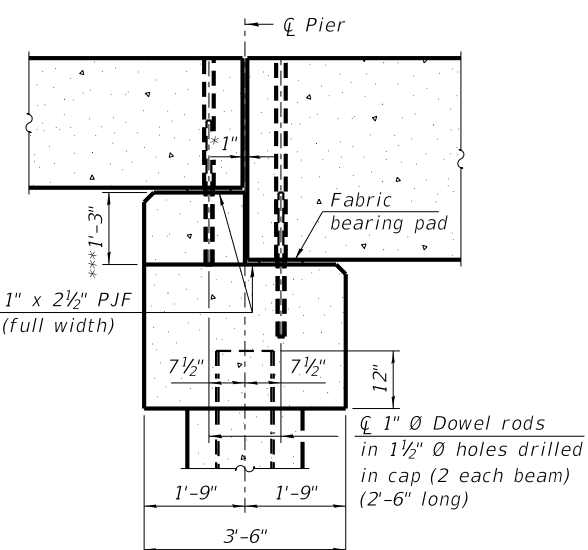
PRINT: ORGANIZER-BV.pct.dwg 12/14/2020 1:56:55 PM - PLOTTED

PILE DATA

Type: HP 12 x 53
 Nominal Required Bearing: Drive to refusal
 Factored Resistance Available: 426 kips
 Est. Length: 26'
 No. Production Piles: 6
 No. Test Piles: 1



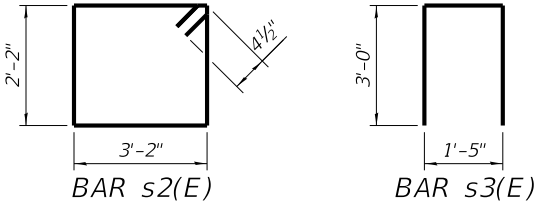
TOP PLAN



SECTION THRU PIER

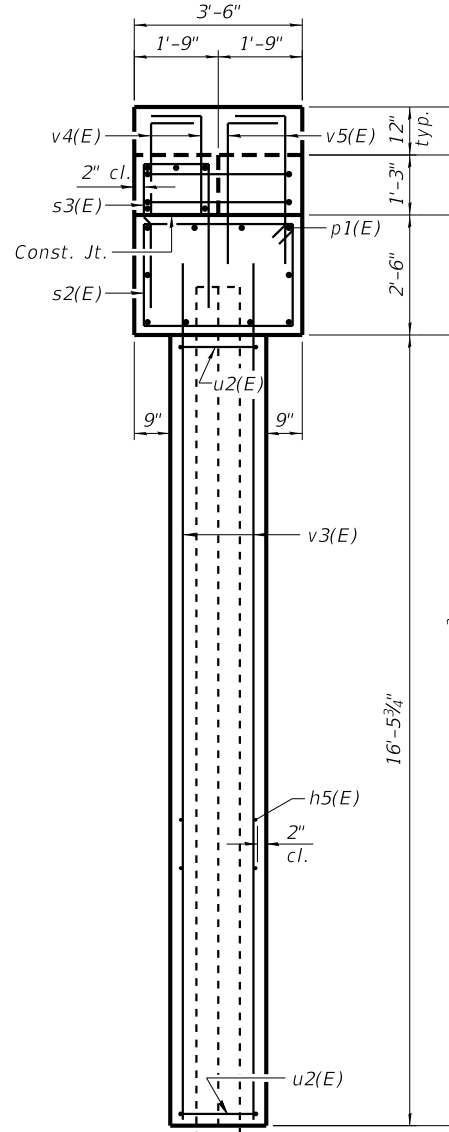
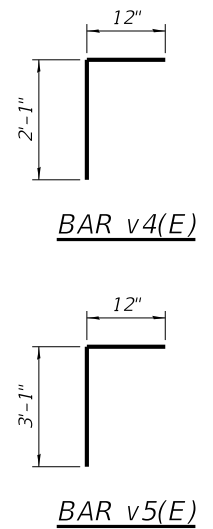
(Dimensions are at Rt. L's.)

* 1" Joint shall be filled with non-shrink grout. 1" dimensions may vary to accommodate tolerance in beam length.
 *** Pour concrete tight against beams after center span is set.

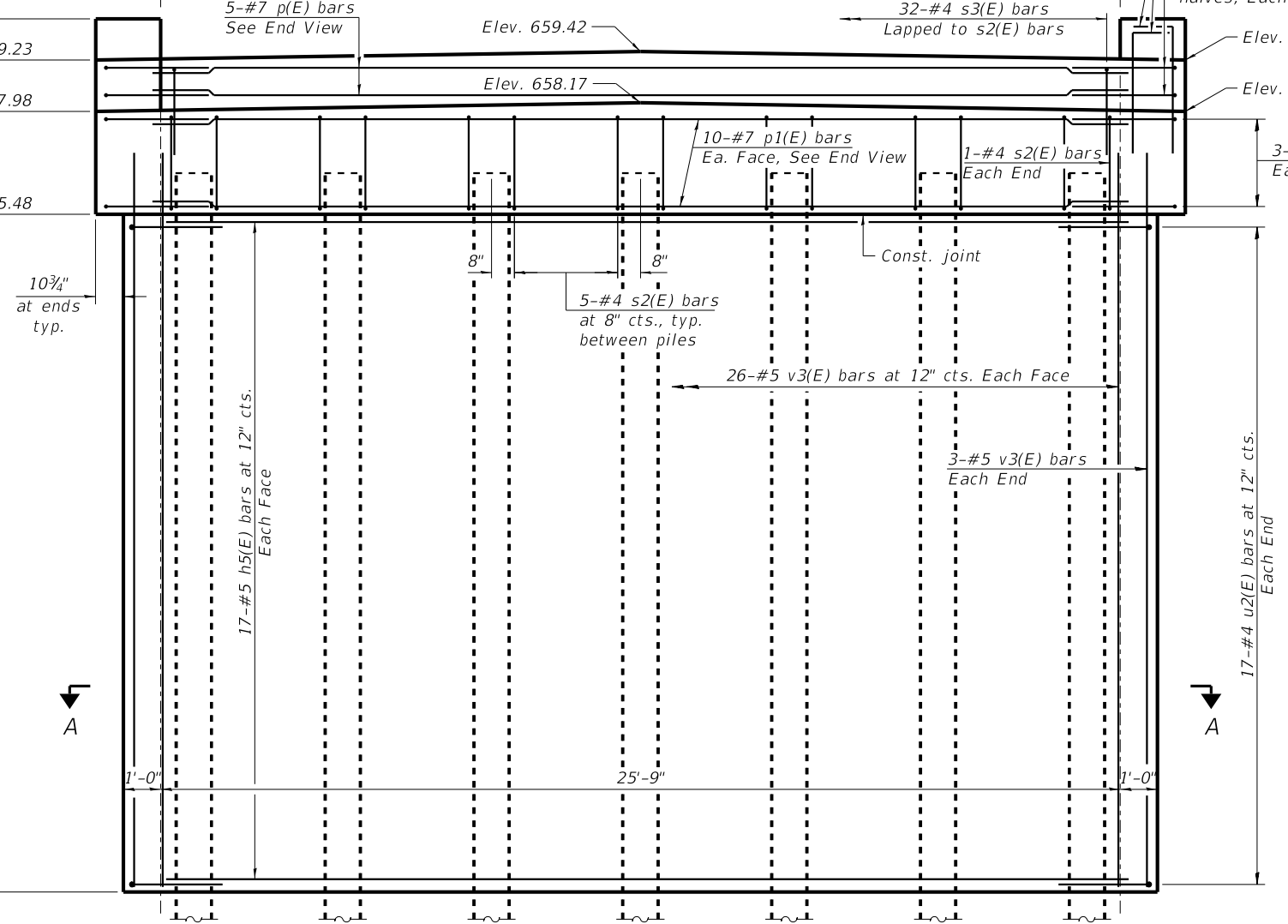


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h5(E)	34	#5	25'-9"	—
p1(E)	15	#7	24'-10"	—
s2(E)	32	#4	11'-5"	□
s3(E)	32	#4	7'-5"	□
u1(E)	10	#4	9'-0"	U
u2(E)	34	#4	8'-7"	U
v3(E)	58	#5	17'-6"	—
v4(E)	12	#4	3'-1"	┌
v5(E)	12	#4	4'-1"	┌
Cofferdam			Cu. Yd.	126
Excavation				
Cofferdam (Type 2)			Each	1
(Location 1)				
Concrete Structures			Cu. Yd.	46.1
Seal Coat Concrete			Cu. Yd.	66
Reinforcement Bars, Epoxy Coated			Pound	3,450
Furnishing Steel Piles			Foot	130
HP 12x53				
Driving Piles			Foot	130
Test Pile, HP 12x53			Each	1

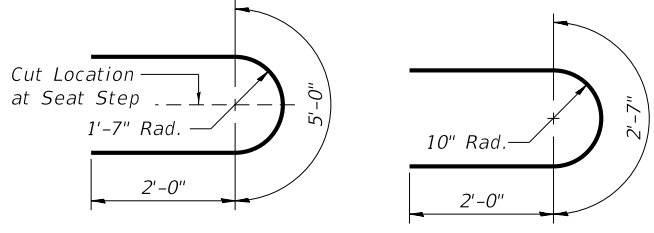


END VIEW



ELEVATION

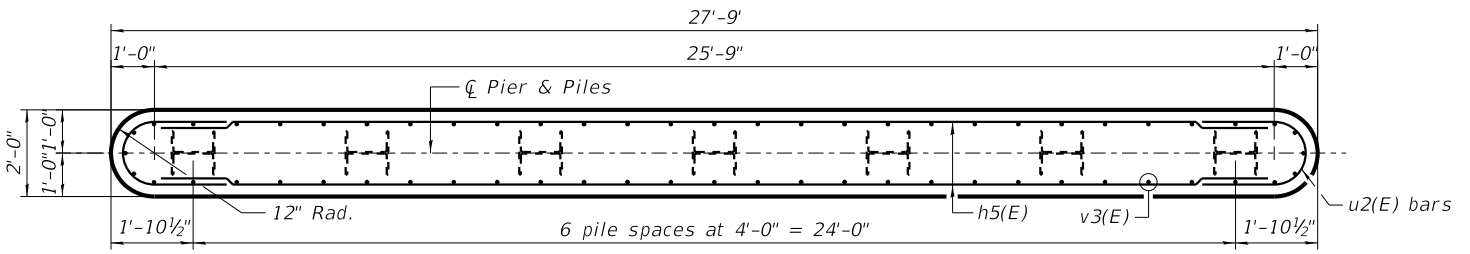
(Looking South)



BARS u1(E)

BARS u2(E)

**Take single u1(E) bar and cut per bar detail; typical each end



SECTION A-A

NOTES:
 Pour steps monolithically with cap.
 Reinforcement bars designated (E) shall be epoxy coated.
 All exposed edges shall have standard 3/4" chamfers, except as noted.
 Space cap reinforcement to miss dowel rods.
 For details of piles, see structural sheet 12 of 14.



DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - PLP	REVISED -

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

PIER 1 DETAILS
STRUCTURE NO. 043-3292
 STRUCTURAL SHEET NO. 9 OF 14 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	26
WHA# 1329D17			CONTRACT NO. 85686	
ILLINOIS FED. AID PROJECT				

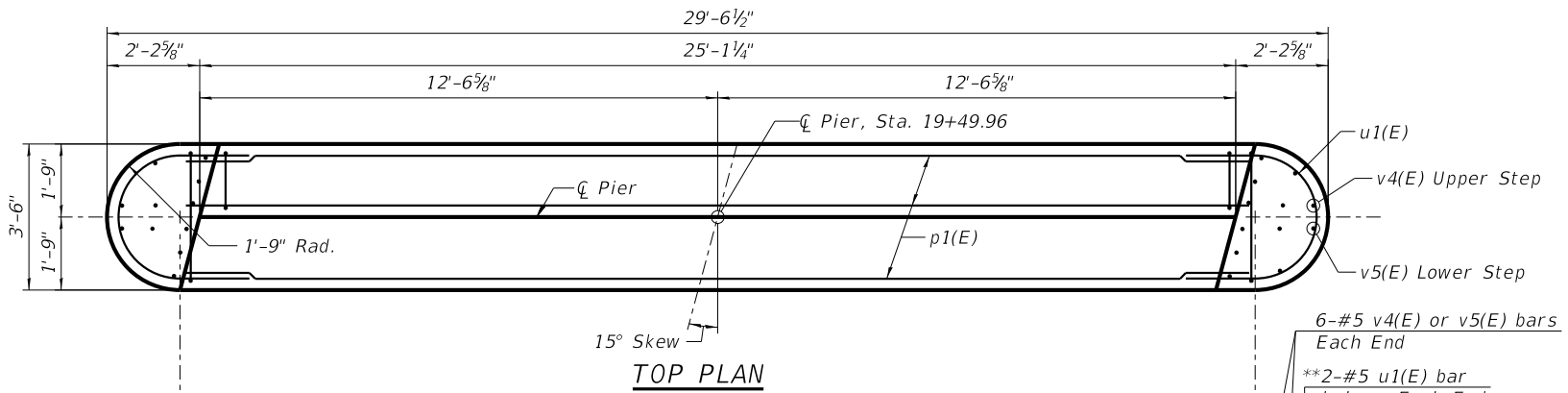
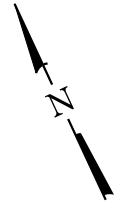
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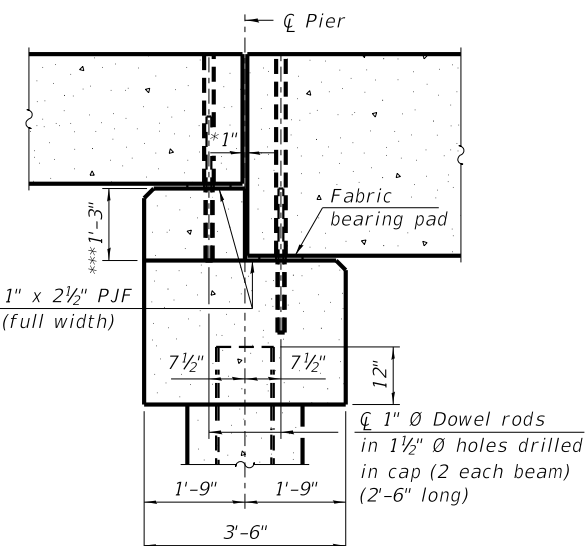
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PILE DATA

Type: HP 12 x 53
 Nominal Required Bearing: Drive to refusal
 Factored Resistance Available: 426 kips
 Est. Length: 26'
 No. Production Piles: 6
 No. Test Piles: 1



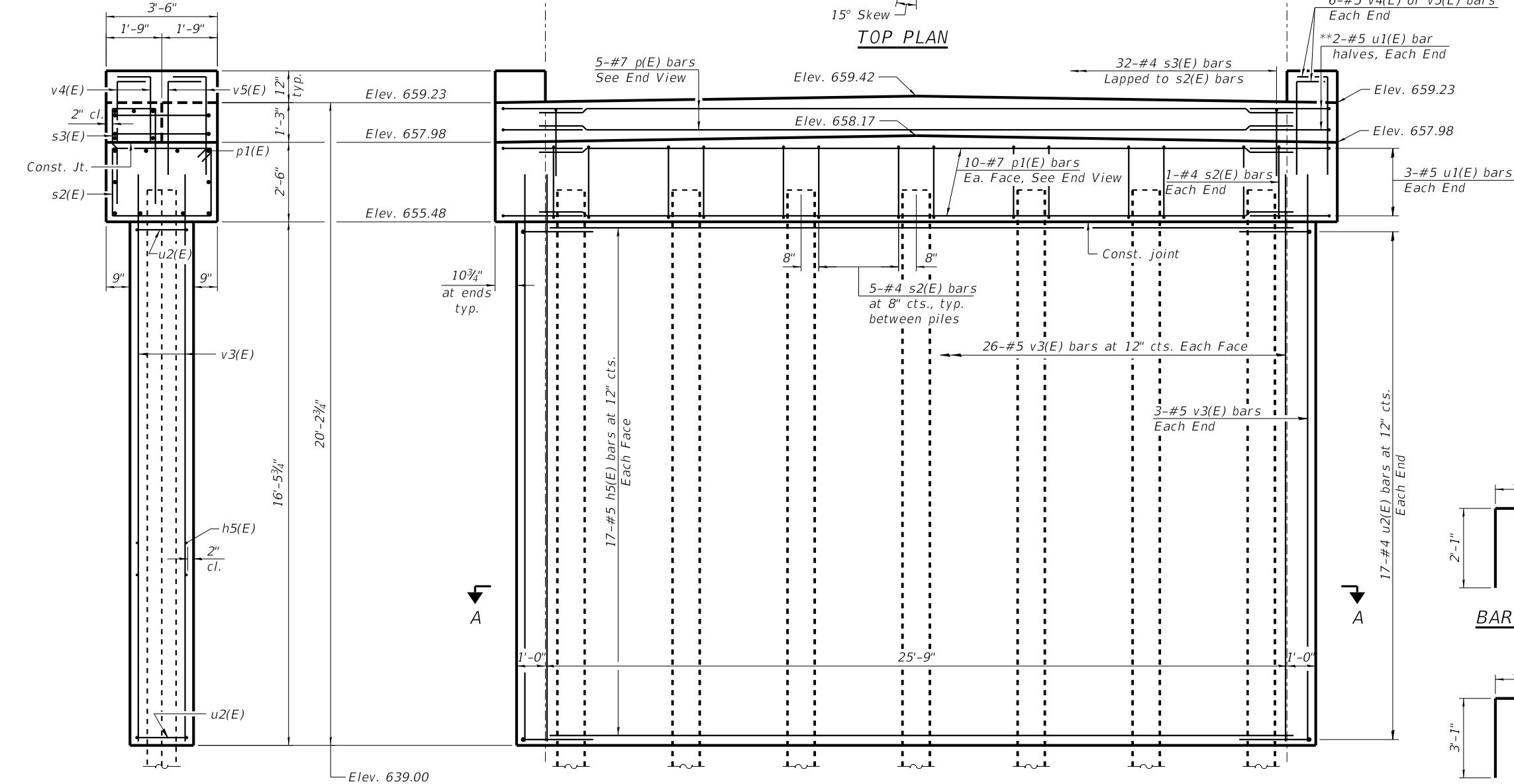
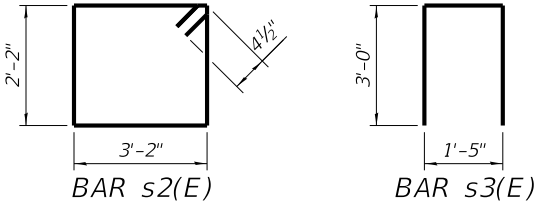
TOP PLAN



SECTION THRU PIER

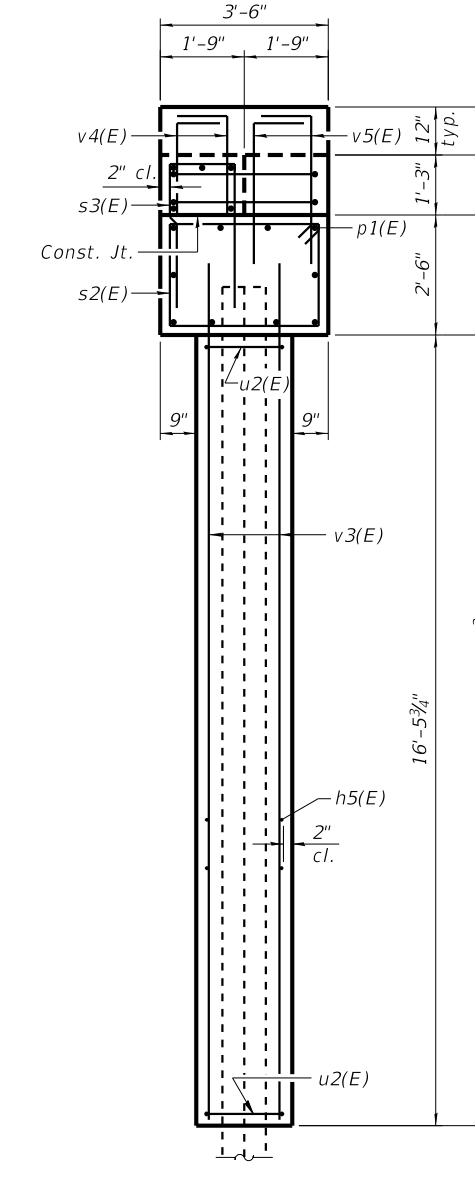
(Dimensions are at Rt. L's.)

* 1" Joint shall be filled with non-shrink grout. 1" dimensions may vary to accommodate tolerance in beam length.
 *** Pour concrete tight against beams after center span is set.

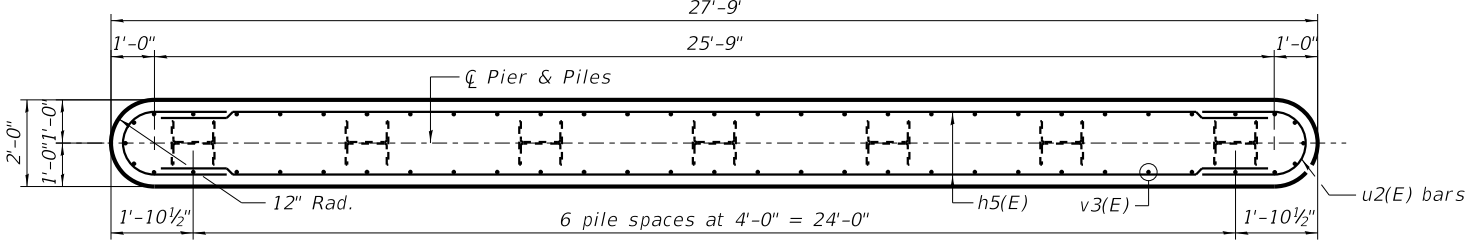


ELEVATION

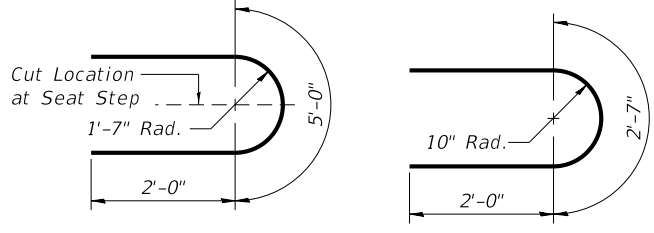
(Looking North)



END VIEW



SECTION A-A



BARS u1(E)
BARS u2(E)

**Take single u1(E) bar and cut per bar detail; typical each end

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h5(E)	34	#5	25'-9"	—
p1(E)	15	#7	24'-10"	—
s2(E)	32	#4	11'-5"	□
s3(E)	32	#4	7'-5"	□
u1(E)	10	#4	9'-0"	U
u2(E)	34	#4	8'-7"	U
v3(E)	58	#5	17'-6"	—
v4(E)	12	#4	3'-1"	Γ
v5(E)	12	#4	4'-1"	Γ
Cofferdam			Cu. Yd.	176
Excavation				
Cofferdam (Type 2)			Each	1
(Location 2)				
Concrete Structures			Cu. Yd.	46.1
Seal Coat Concrete			Cu. Yd.	66
Reinforcement Bars, Epoxy Coated			Pound	3,450
Furnishing Steel Piles			Foot	130
HP 12x53				
Driving Piles			Foot	130
Test Pile, HP 12x53			Each	1

NOTES:
 Pour steps monolithically with cap.
 Reinforcement bars designated (E) shall be epoxy coated.
 All exposed edges shall have standard 3/4" chamfers, except as noted.
 Space cap reinforcement to miss dowel rods.
 For details of piles, see structural sheet 12 of 14.



DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - PLP	REVISED -

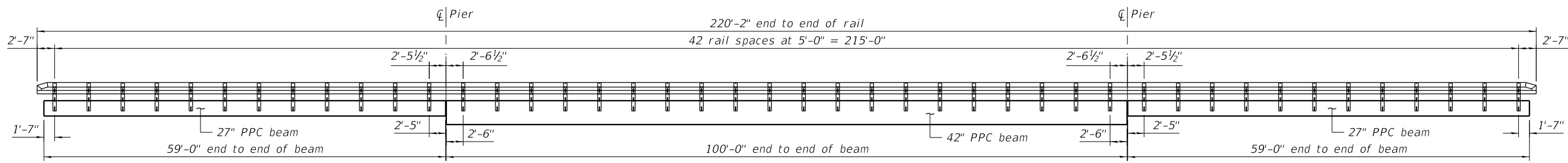
JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

PIER 2 DETAILS
STRUCTURE NO. 043-3292
 STRUCTURAL SHEET NO. 10 OF 14 SHEETS

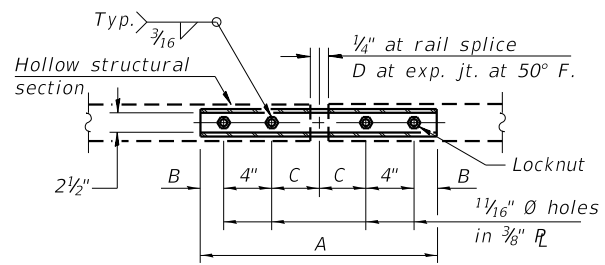
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	27
WHA# 1329D17			CONTRACT NO. 85686	
ILLINOIS FED. AID PROJECT				

FILE = S:\PROJECTS\2017\1329D17\JOH DESIGN CAD SHEETS\1329D17-PIER 2 Details.dgn

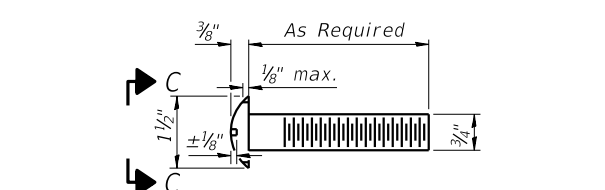
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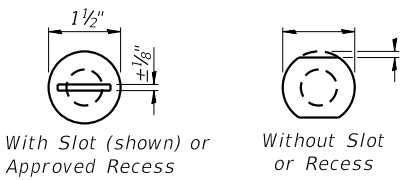
PLAN VIEW



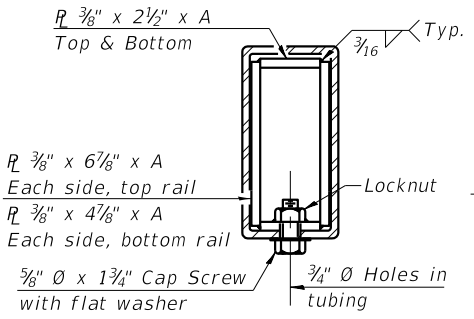
PLAN-BOTT. SPLICE R TYPICAL



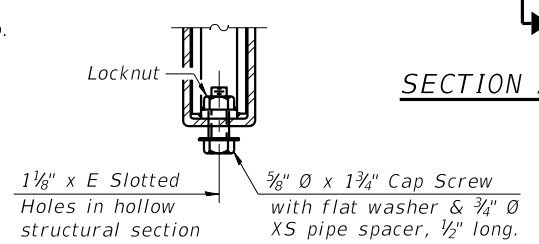
DETAIL OF 3/4 inch diameter round head bolt



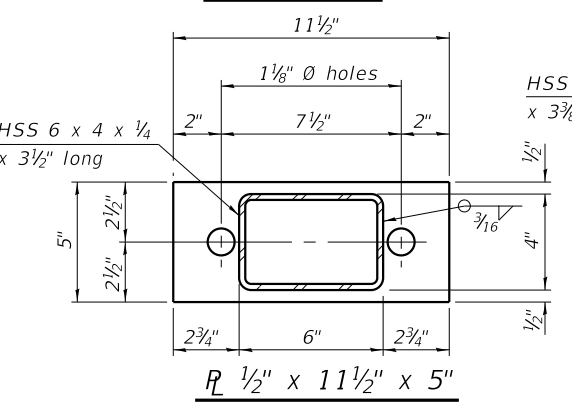
VIEW C-C



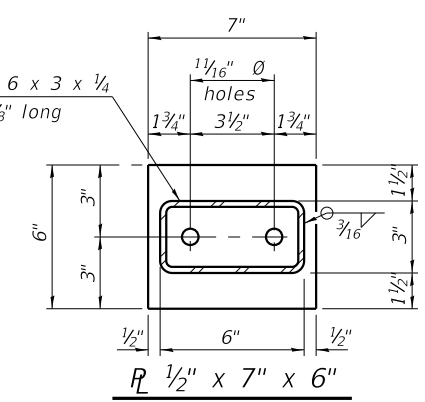
SECTION AT RAIL SPLICE



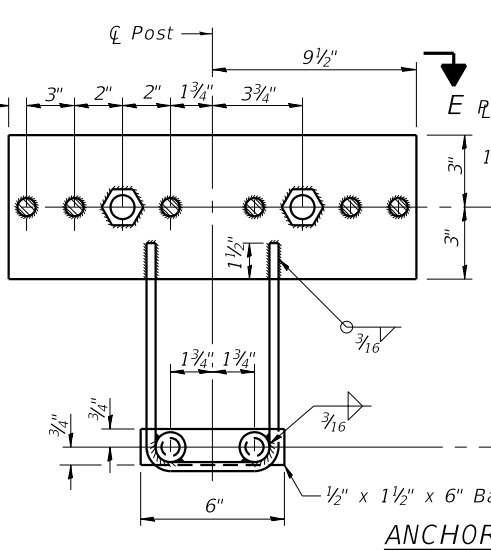
RAIL SPLICE CONNECTION AT EXPANSION JT.



SECTION AT RAIL POST



SECTION A-A



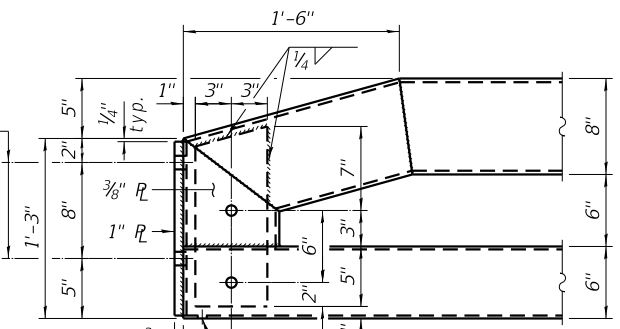
ANCHOR DEVICE

1 1/8" diameter Holes for 1" diameter x 4" Round Head Bolts. Provide 2 flat washers & locknuts for guard rail connection shown on Hwy. Std. 631026 or BLR 27-1.

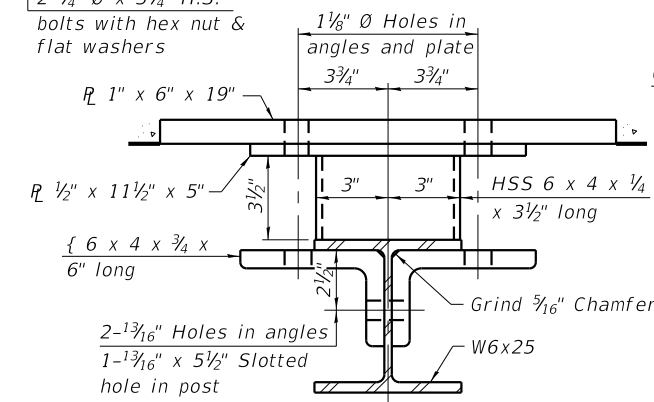
SPLICE DIMENSIONS

T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	

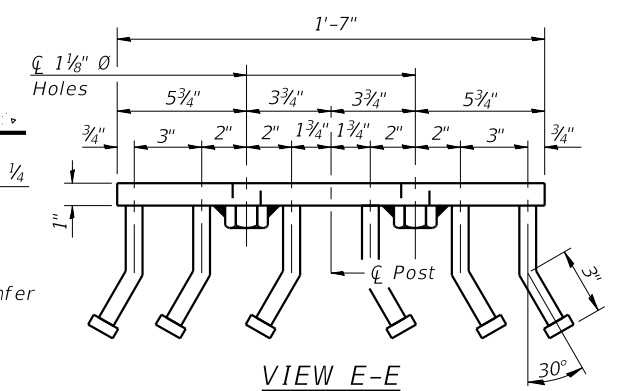
T = Total movement at expansion joint as shown on the design plans.



END OF RAIL DETAILS



SECTION B-B



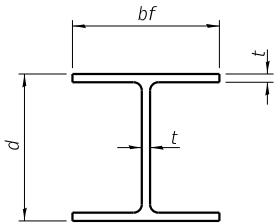
VIEW E-E

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	440

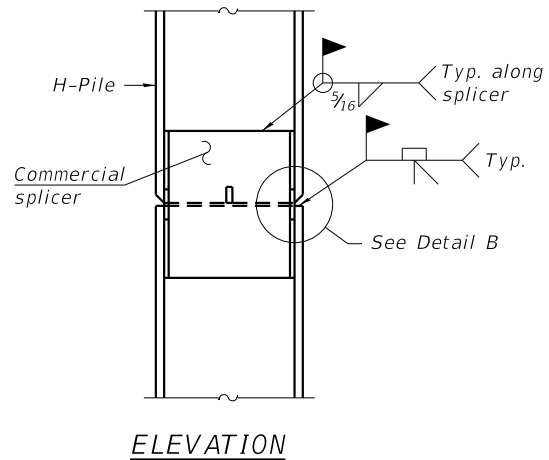
NOTES:

- 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 SM.
- Steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
- * Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.
- ** 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".
- *** 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.

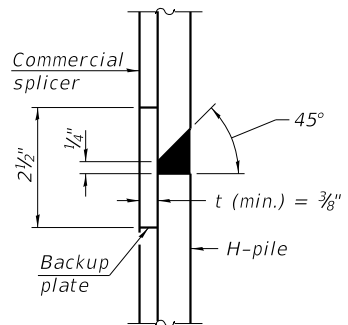


STEEL PILE TABLE

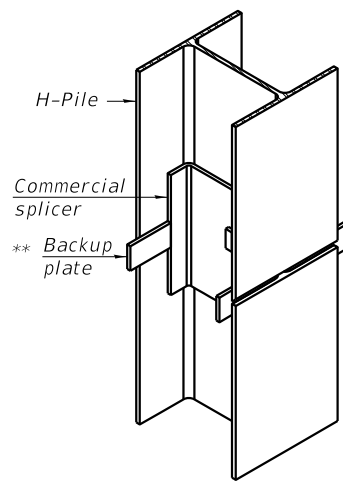
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
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

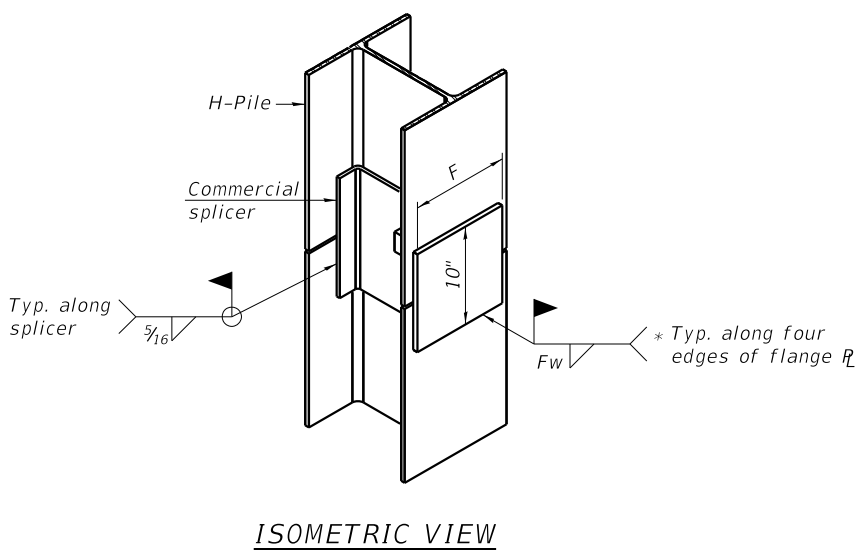


DETAIL "B"



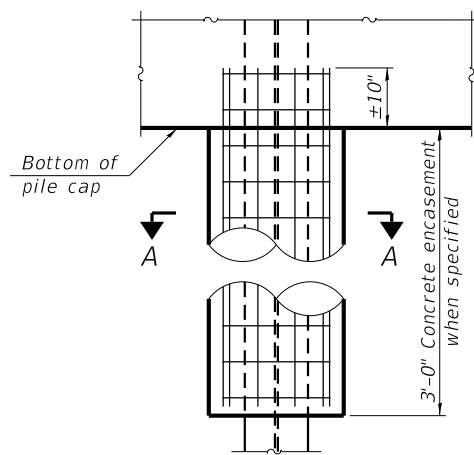
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

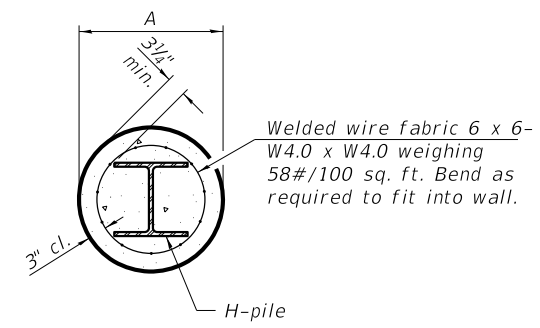


WELDED COMMERCIAL SPLICE ALTERNATE

- * 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.).

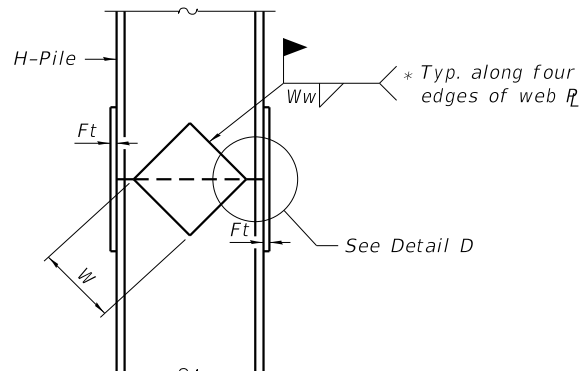


ELEVATION

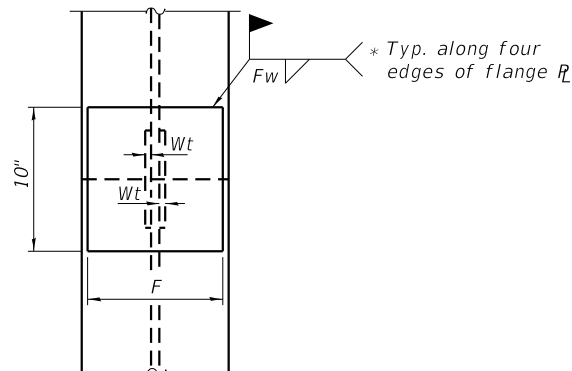


SECTION A-A

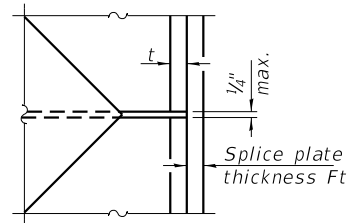
INDIVIDUAL PILE CONCRETE ENCASUREMENT
 (Forms for encasement may be omitted when soil conditions permit).



ELEVATION



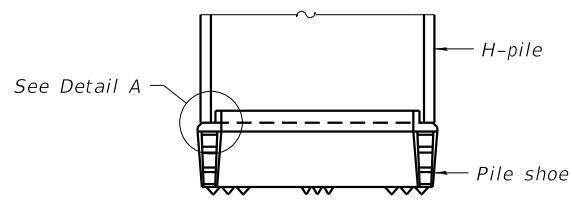
END VIEW



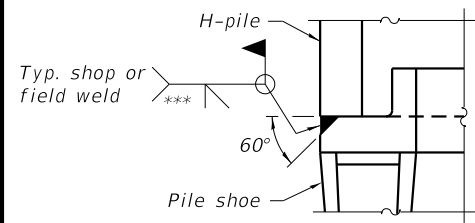
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
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"	1 1/16"	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"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	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

SHOE ATTACHMENT

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

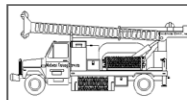


DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - PLP	REVISED -

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

HP PILE DETAILS
STRUCTURE NO. 043-3292
 STRUCTURAL SHEET NO. 12 OF 14 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	29
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				



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

BORING LOG

Sheet 1 of 2

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

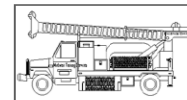
Client: Willet Hofmann & Associates, Inc.
Project Name Section 17-23125-00-BR
Project Site: S. Apple River Rd. over Apple River
Jo Daviess County, Illinois

Boring No. B-1
Surface Elev. 653.40
Auger Depth 33.50 Rotary Depth NA
Start Date 05/05/18 Finish Date 05/05/18

Location: 35' Left of Station 19+15

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					Dry Density (PCF)	DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear		Moisture (%)	
653.40											
652.40			1								
651.40			2								
650.40	Medium Brownish Black To Brown Sandy Loam		3	1	SS	---	13	---	20		
649.40			4								
648.40			5	2	SS	---	15	---	21		
647.40			6								
646.40			7								
645.40			8	3	SS	---	15	---	---		
644.40			9								
643.40			10	4	SS	---	21	---	---		
642.40			11								
641.40			12								
640.40	Medium Brown Silty Loam With Limestone Fragments		13	5	SS	---	18	---	---		
639.40			14								
638.40			15								
637.40			16	6	SS	---	20	---	---		
636.40			17								
635.40			18	7	SS	---	26	---	---		
634.40			19								
633.40			20	8	SS	---	23	---	---		

Groundwater Data: **Static ground water at time of drilling; Elevation 648.5**
Comments:



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

BORING LOG

Sheet 2 of 2

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

Client: Willet Hofmann & Associates, Inc.
Project Name Section 17-23125-00-BR
Project Site: S. Apple River Rd. over Apple River
Jo Daviess County, Illinois

Boring No. B-1
Surface Elev. 653.40
Auger Depth 33.50 Rotary Depth NA
Start Date 05/05/18 Finish Date 05/05/18

Location: 35' Left of Station 19+15

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					Dry Density (PCF)	DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear		Moisture (%)	
632.40											
631.40			22								
630.40	Brown Silty Loam With Limestone Fragments		23	9	SS	---	28	---	---		
629.40			24								
628.40			25								
627.40			26	10	SS						
626.40			27								
625.40	Very Dense Pale Yellowish Brown Limestone (Penetrated With Rock Bit)		28	11	SS						
624.40			29								
623.40			30								
622.40			31	12	SS						
621.40			32								
620.40			33								
619.40			34								
618.40			35								
617.40			36	13	SS						
616.40			37								
615.40			38								
614.40			39								
613.40			40								
612.40			41	14	SS						

Groundwater Data: **Static ground water at time of drilling; Elevation 648.5**
Comments:



DESIGNED - SM
CHECKED - BKC
DRAWN - FDL
CHECKED - PLP

REVISED -
REVISED -
REVISED -
REVISED -

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

SOIL BORING LOGS
STRUCTURE NO. 043-3292
STRUCTURAL SHEET NO. 13 OF 14 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	30
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

Midwest Testing Services, Inc.
 3705 Progress Blvd.
 Peru, IL 61354
BORING LOG
 Phone: 815-223-6696
 Fax: 815-223-6659
 e-mail: mts37@comcast.net
 Sheet 1 of 2

Client: Willet Hofmann & Associates, Inc.
 Project Name Section 17-23125-00-BR
 Project Site: S. Apple River Rd. over Apple River
Jo Daviess County, Illinois
 Boring No. B-2
 Surface Elev. 661.40
 Auger Depth 40' Rotary Depth NA
 Start Date 05/05/18 Finish Date 05/05/18

Location: Centerline of Roadway Station 20+70

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY	REMARKS		
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear			Moisture (%)	Dry Density (PCF)
661.40												
660.40			1									
659.40			2									
658.40	Medium Brownish Black Silty Loam With Limestone Fragments (Fill)		3	1	SS	1.6	10	B	20			
657.40			4									
656.40			5	2	SS	1.4	10	B	23			
655.40			6									
654.40			7									
653.40	Stiff To Very Stiff Brownish Black Silty Loam With Limestone Fragments		8	3	SS	1.7	16	B	19			
652.40			9									
651.40			10	4	SS	2.2	23	S	20			
650.40			11									
649.40			12									
648.40			13	5	SS	---	21	---	---			
647.40			14									
646.40	Medium Brownish Black And Brown Silty Loam With Limestone Fragments		15	6	SS	---	25	---	---			
645.40			16									
644.40			17									
643.40			18	7	SS	---	18	---	---			
642.40			19									
641.40			20	8	SS	---	18	---	---			

Groundwater Data: **Static ground water at time of drilling; Elevation 648.5**
 Comments:

Midwest Testing Services, Inc.
 3705 Progress Blvd.
 Peru, IL 61354
BORING LOG
 Phone: 815-223-6696
 Fax: 815-223-6659
 e-mail: mts37@comcast.net
 Sheet 2 of 2

Client: Willet Hofmann & Associates, Inc.
 Project Name Section 17-23125-00-BR
 Project Site: S. Apple River Rd. over Apple River
Jo Daviess County, Illinois
 Boring No. B-2
 Surface Elev. 661.40
 Auger Depth 40' Rotary Depth NA
 Start Date 05/05/18 Finish Date 05/05/18

Location: Centerline of Roadway Station 20+70

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES					DRILLED BY	REMARKS		
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear			Moisture (%)	Dry Density (PCF)
640.40												
639.40			22									
638.40	Medium Brown Silty Loam With Limestone Fragments		23	9	SS	---	25	---	---			
637.40			24									
636.40			25	10	SS	---	26	---	---			
635.40			26									
634.40			27									
633.40	Dense Yellowish Brown Weathered Limestone		28	11	SS	---	38	---	---			
632.40			29									
631.40			30	12	SS							
630.40			31									
629.40			32									
628.40			33									
627.40	Very Dense Pale Yellowish Brown Limestone (Penetrated With Rock Bit)		34									
626.40			35									
625.40			36	13	SS							
624.40			37									
623.40			38									
622.40			39									
621.40			40	14	SS							
620.40			41									

Groundwater Data: **Static ground water at time of drilling; Elevation 648.5**
 Comments:



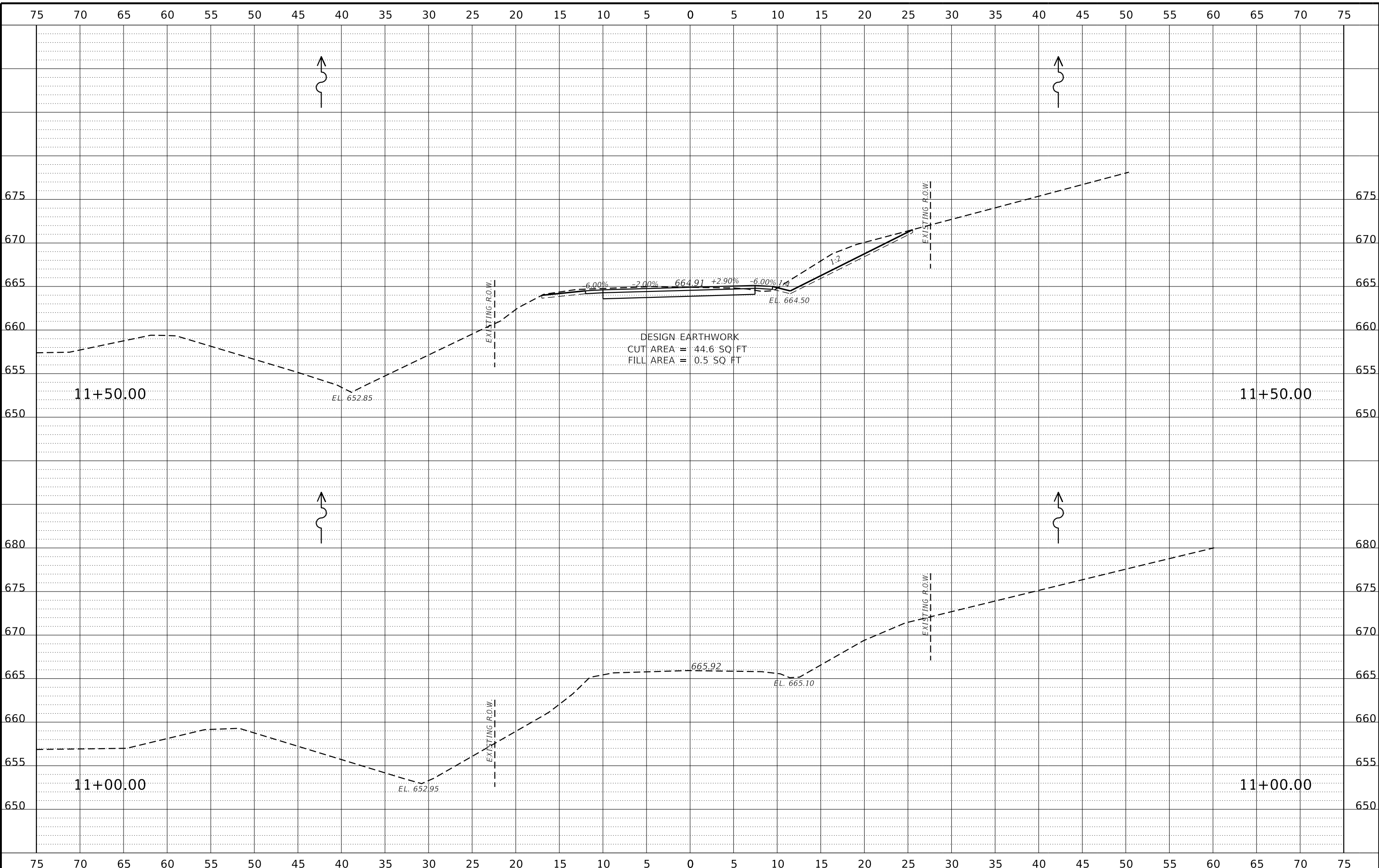
DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - PLP	REVISED -

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

SOIL BORING LOGS
STRUCTURE NO. 043-3292
 STRUCTURAL SHEET NO. 14 OF 14 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	31
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

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DRAWN - FDL	REVISED -
CHECKED - PLP	REVISED -

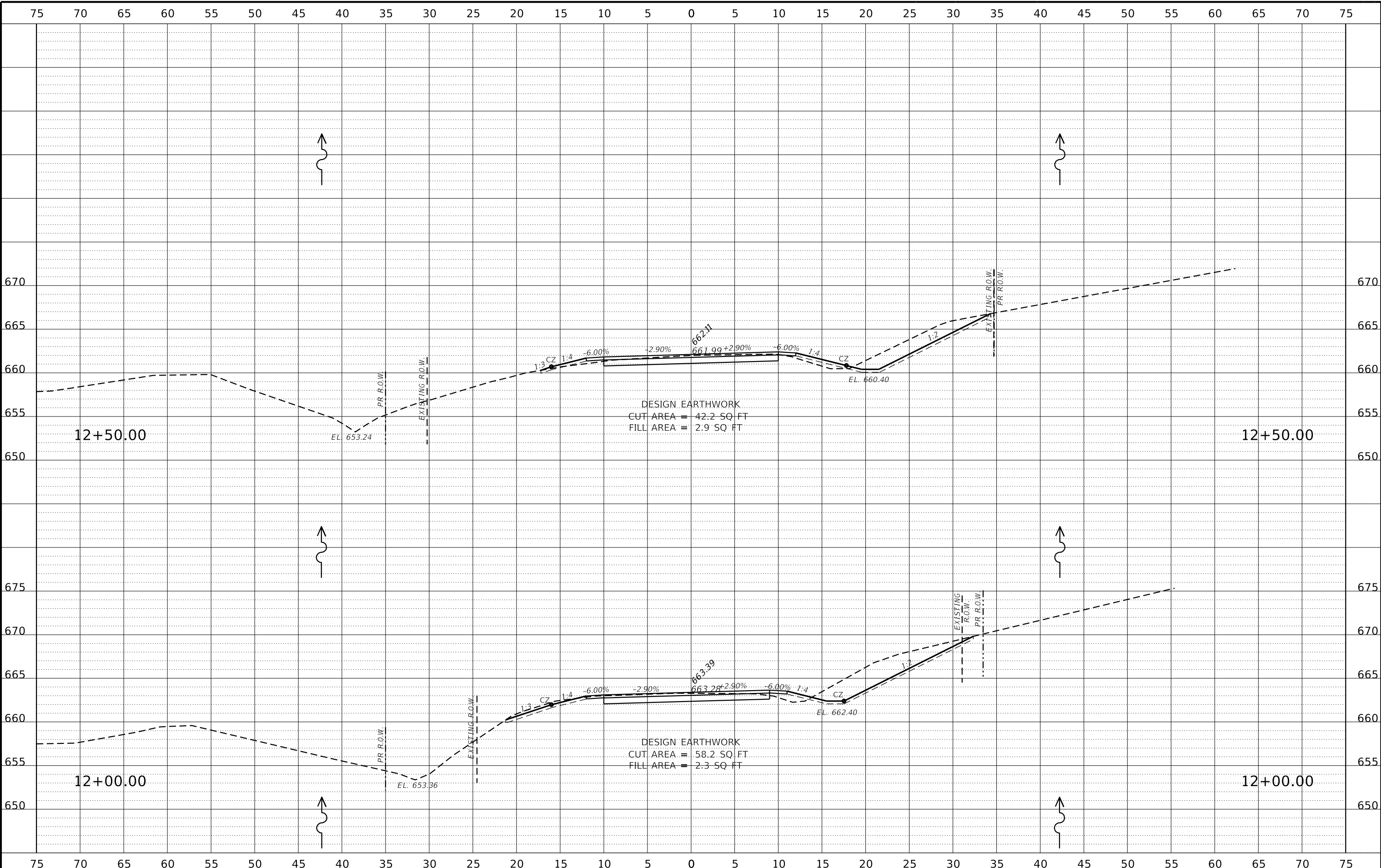
JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

CROSS SECTIONS

SCALE: 1" = 5'-0" SHEET NO. 1 OF 18 SHEETS STA. 11+00.00 TO STA. 11+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	33
WHA# 1329D17			CONTRACT NO. 85686	
ILLINOIS FED. AID PROJECT				

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DRAWN	- FDL	REVISED	-
CHECKED	- PLP	REVISED	-

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

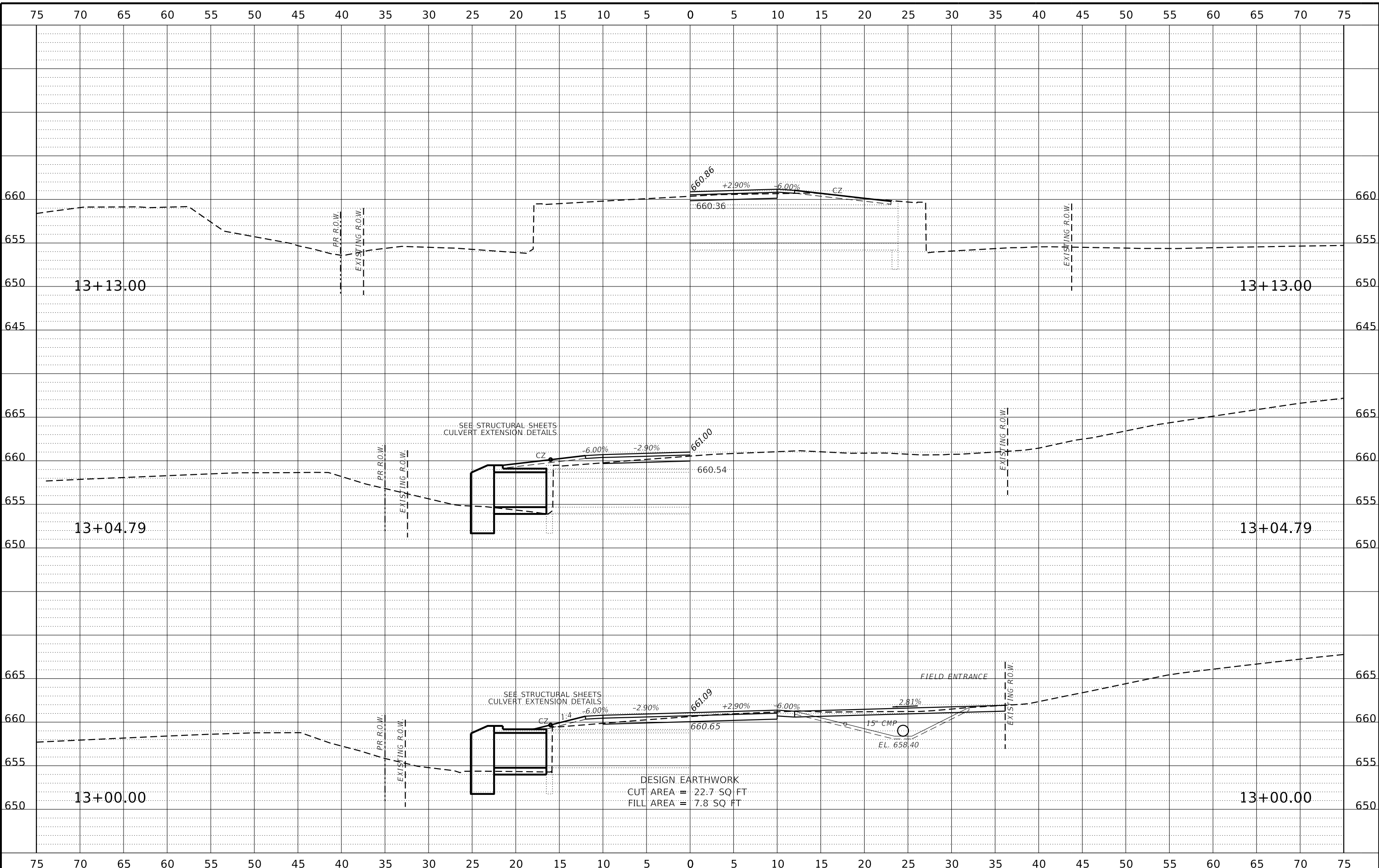
CROSS SECTIONS

SCALE: 1" = 5'-0" SHEET NO. 2 OF 18 SHEETS STA. 12+00.00 TO STA. 12+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	34
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

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DRAWN - FDL	REVISED -
CHECKED - PLP	REVISED -

**JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00**

CROSS SECTIONS

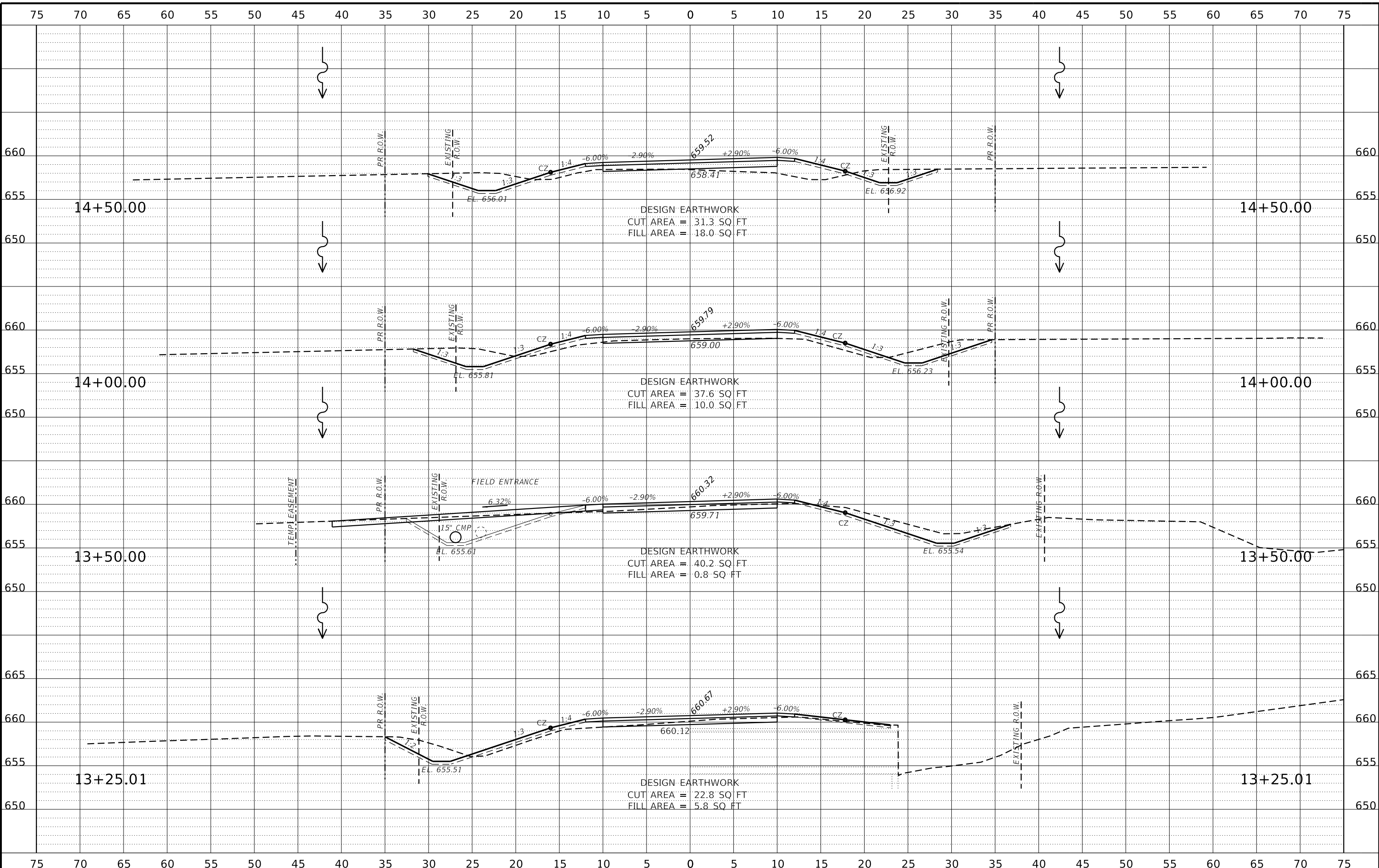
SCALE: 1" = 5'-0" SHEET NO. 3 OF 18 SHEETS STA. 13+00.00 TO STA. 13+13.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	35
WHA# 1329D17			CONTRACT NO. 85686	
ILLINOIS FED. AID PROJECT				

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DRAWN	- FDL	REVISED	-
CHECKED	- PLP	REVISED	-

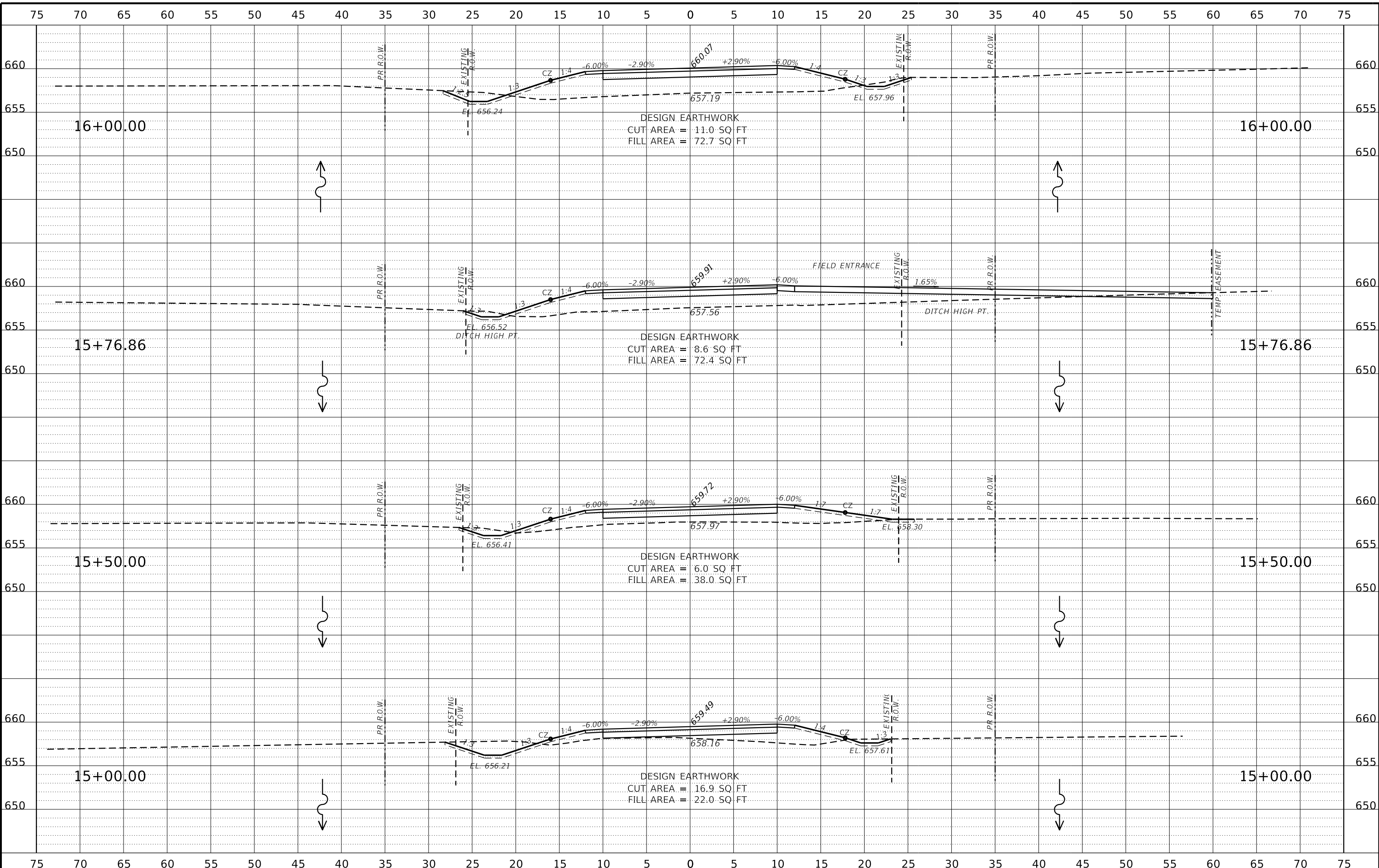
**JO DAVIESS COUNTY
 T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
 STATION 20+00**

CROSS SECTIONS
 SCALE: 1" = 5'-0" SHEET NO. 4 OF 18 SHEETS STA. 13+25.01 TO STA. 14+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	36
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

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**JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00**

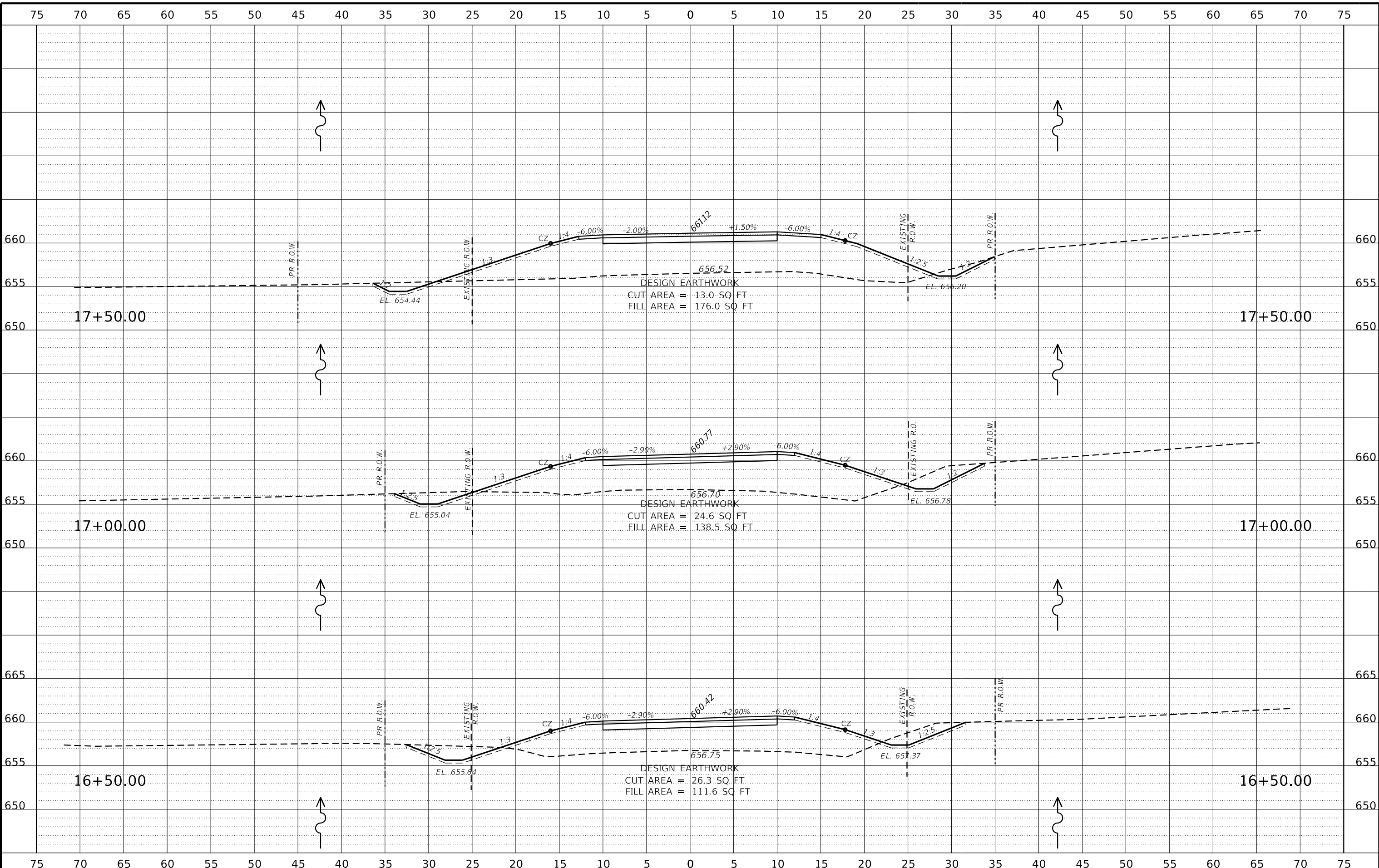
CROSS SECTIONS
SCALE: 1" = 5'-0" SHEET NO. 5 OF 18 SHEETS STA. 15+00.00 TO STA. 16+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	37
WHA# 1329D17			CONTRACT NO. 85686	
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DRAWN	- FDL	REVISED	-
CHECKED	- PLP	REVISED	-

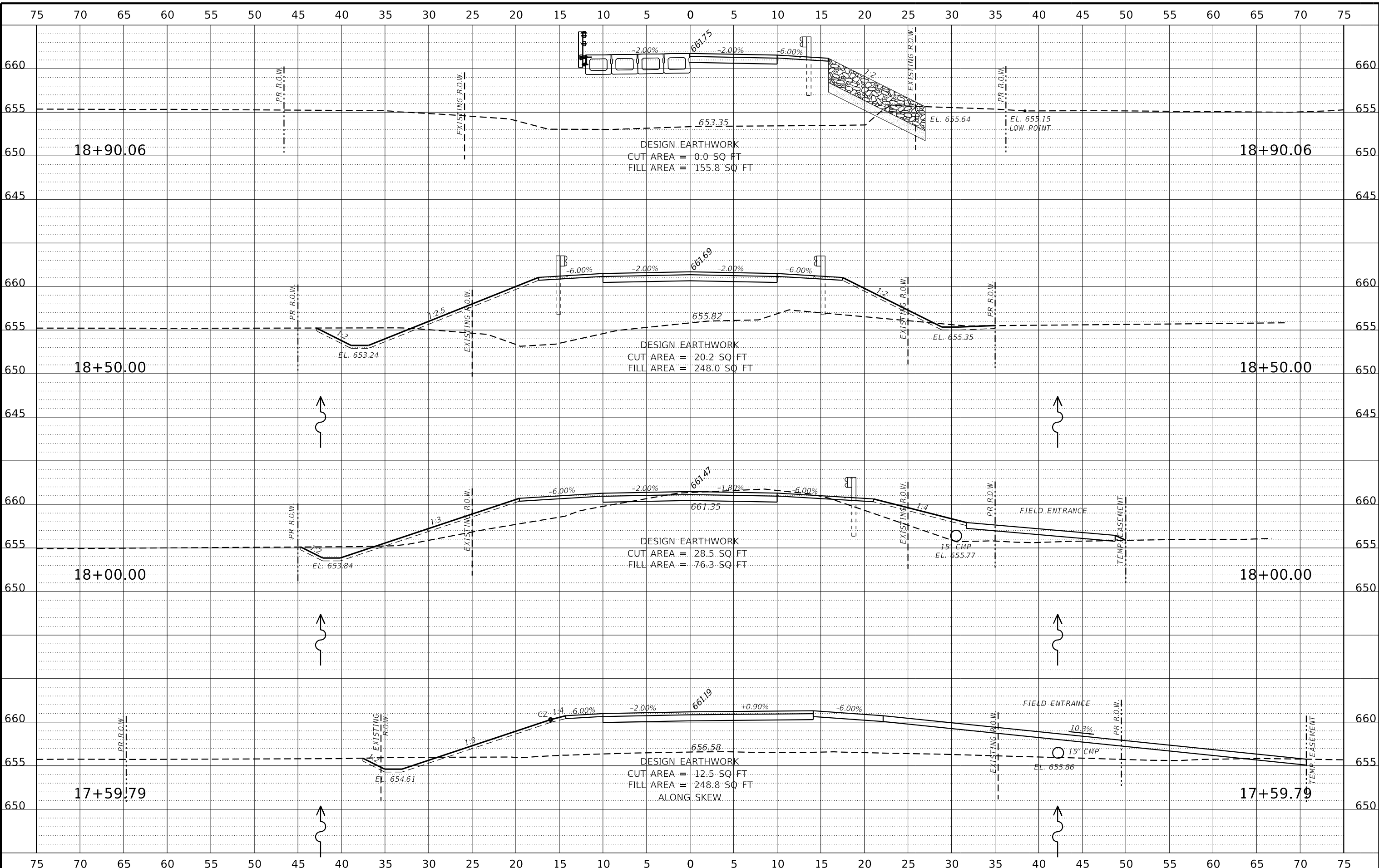
**JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00**

CROSS SECTIONS
SCALE: 1" = 5'-0" SHEET NO. 6 OF 18 SHEETS STA. 16+50.00 TO STA. 17+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	38
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

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CHECKED	- PLP	REVISED	-

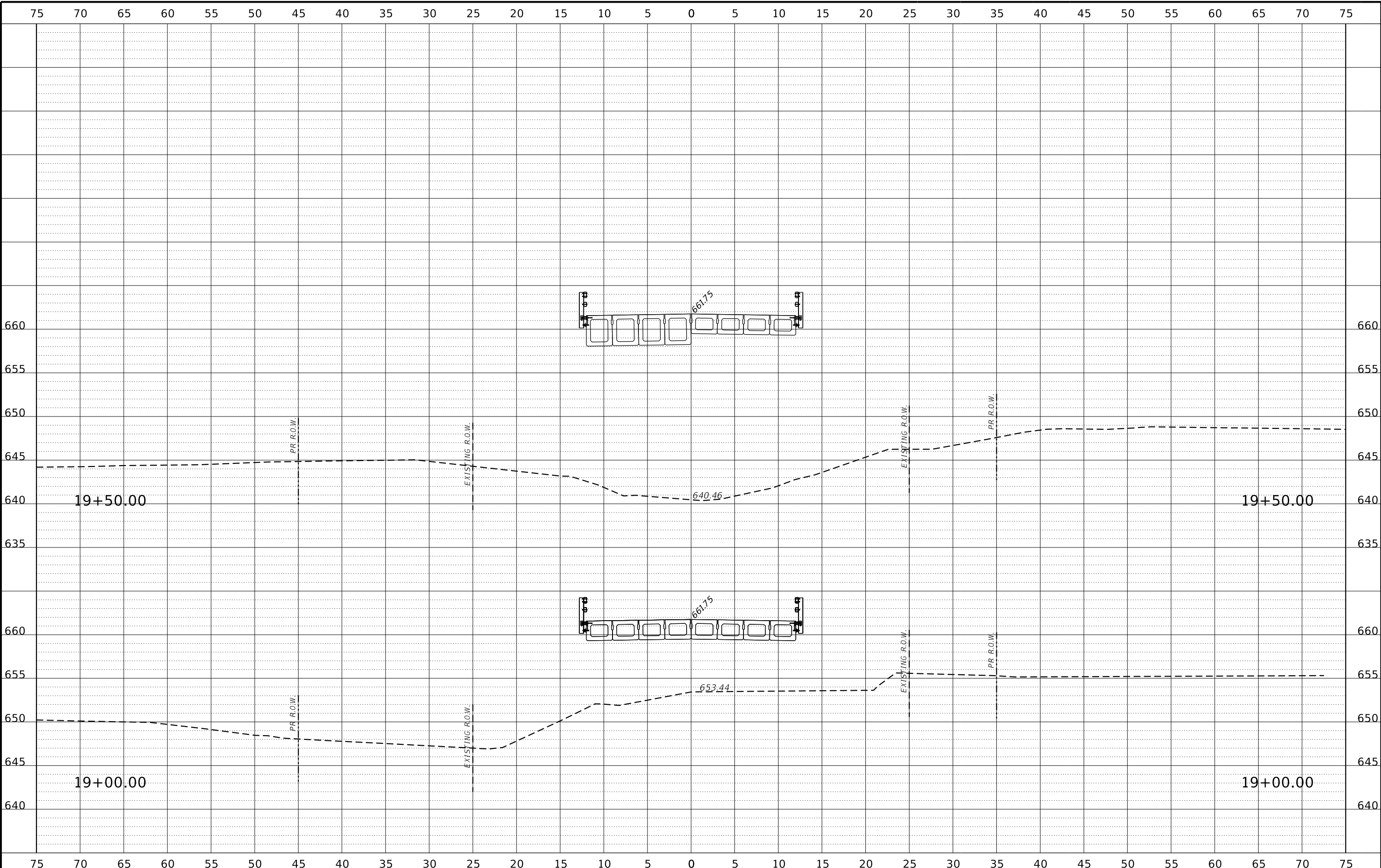
JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

CROSS SECTIONS

SCALE: 1" = 5'-0" SHEET NO. 7 OF 18 SHEETS STA. 17+59.79 TO STA. 18+90.06

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	39
WHA# 1329D17		CONTRACT NO. 85686		
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DRAWN - FDL	REVISED -
CHECKED - PLP	REVISED -

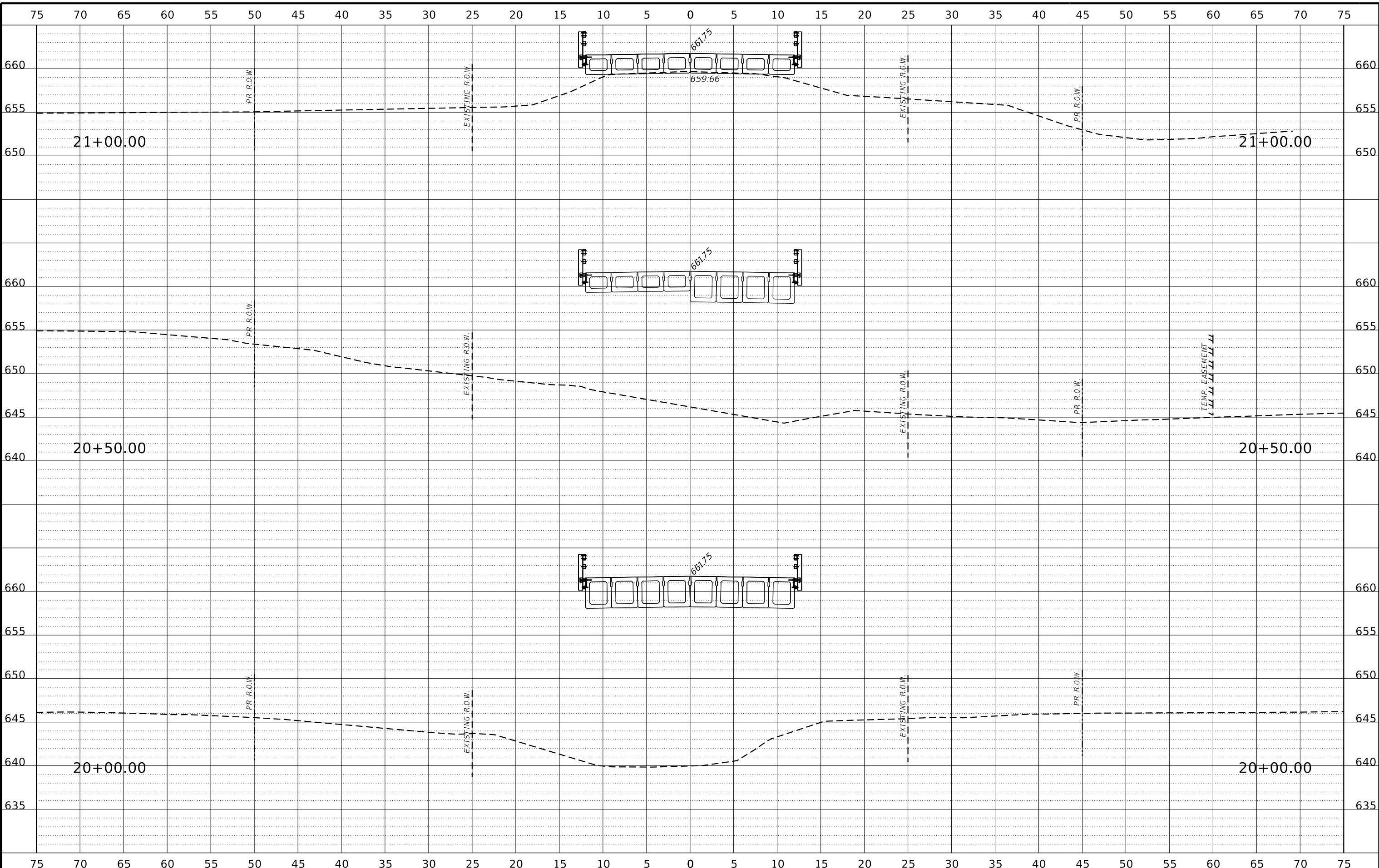
**JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00**

CROSS SECTIONS

SCALE: 1" = 5'-0" SHEET NO. 8 OF 18 SHEETS STA. 19+00.00 TO STA. 19+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	40
WHA# 1329D17			CONTRACT NO. 85686	
ILLINOIS FED. AID PROJECT				

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**JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00**

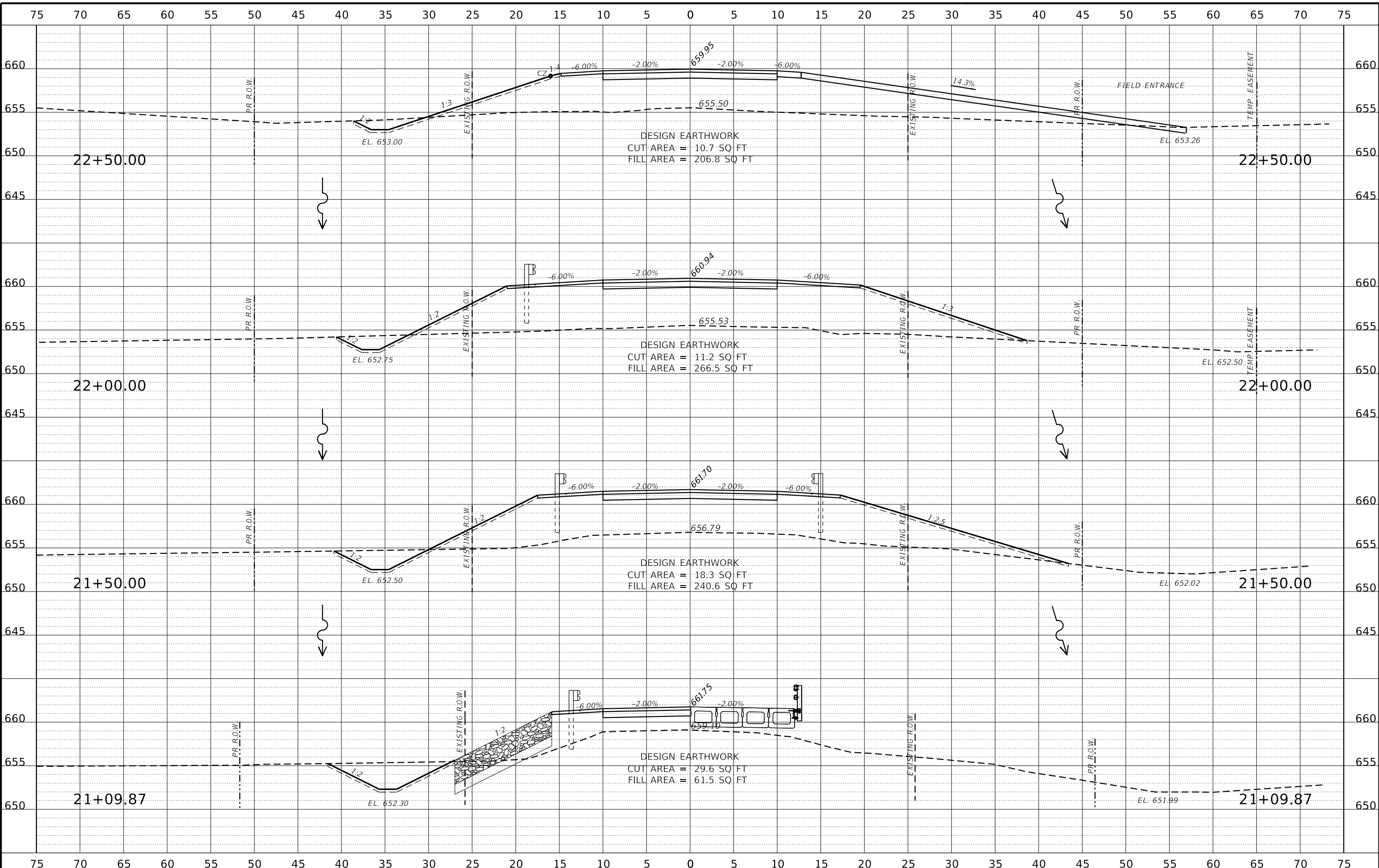
CROSS SECTIONS
SCALE: 1" = 5'-0" SHEET NO. 9 OF 18 SHEETS STA. 20+00.00 TO STA. 21+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	41
WHA# 1329D17			CONTRACT NO. 85686	
ILLINOIS FED. AID PROJECT				

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JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

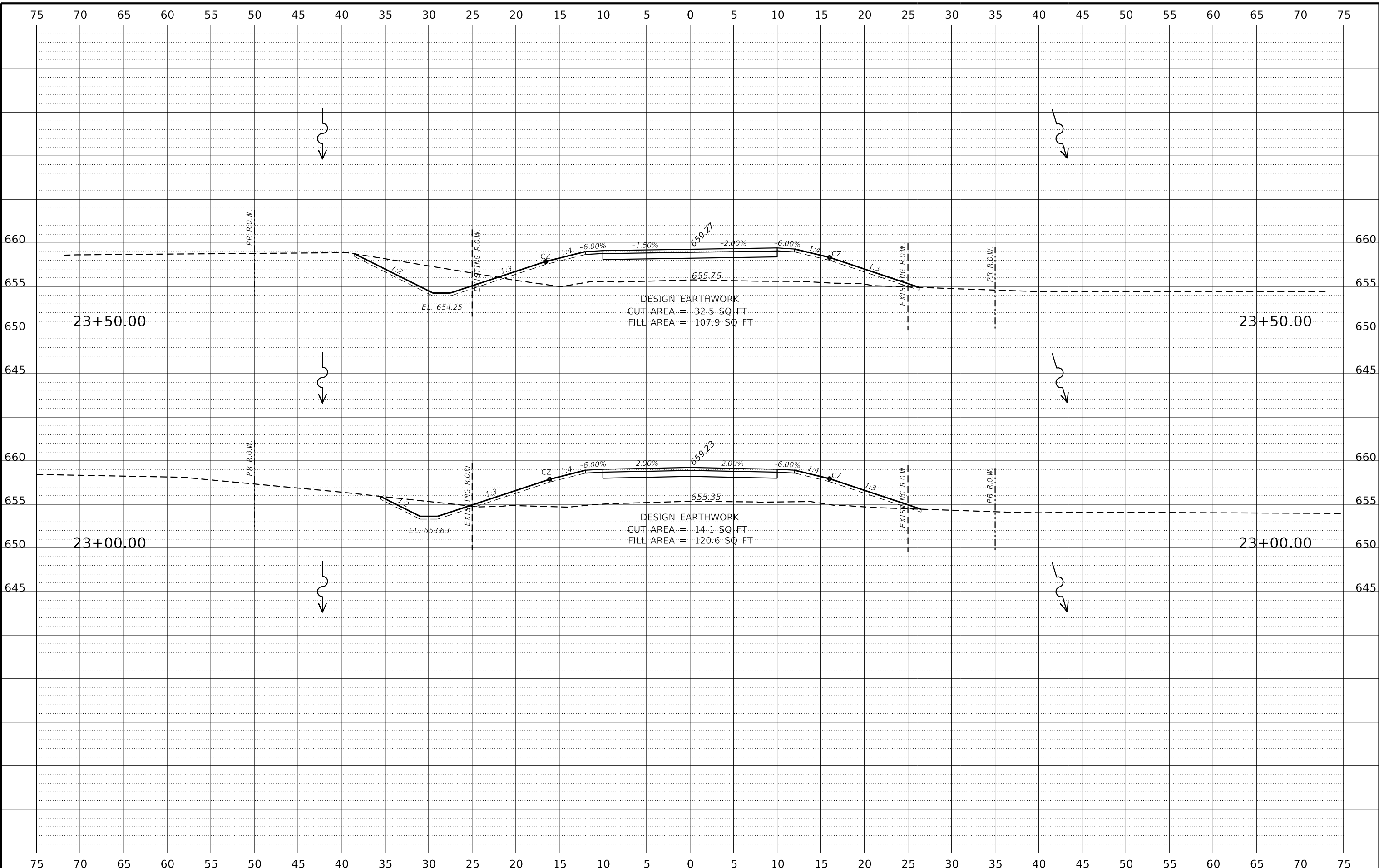
CROSS SECTIONS

SCALE: 1" = 5'-0" SHEET NO. 10 OF 18 SHEETS STA. 21+09.87 TO STA. 22+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	42
WHA# 1329D17		CONTRACT NO. 85686		
ILLINOIS FED. AID PROJECT				

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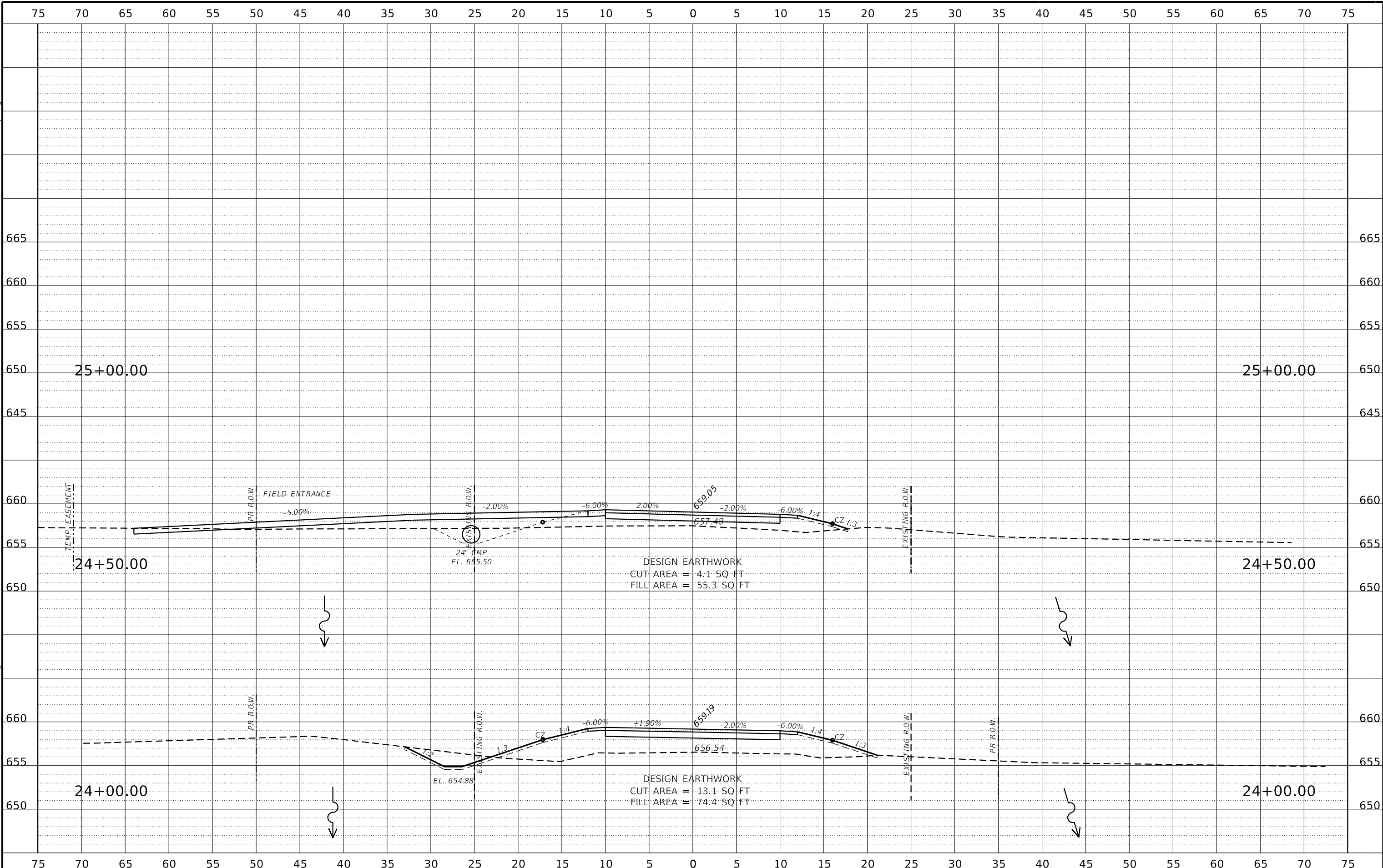
JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

CROSS SECTIONS
 SCALE: 1" = 5'-0" SHEET NO. 11 OF 18 SHEETS STA. 22+91.31 TO STA. 23+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	43
WHA# 1329D17		CONTRACT NO. 85686		
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CHECKED - PLP	REVISED -

**JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00**

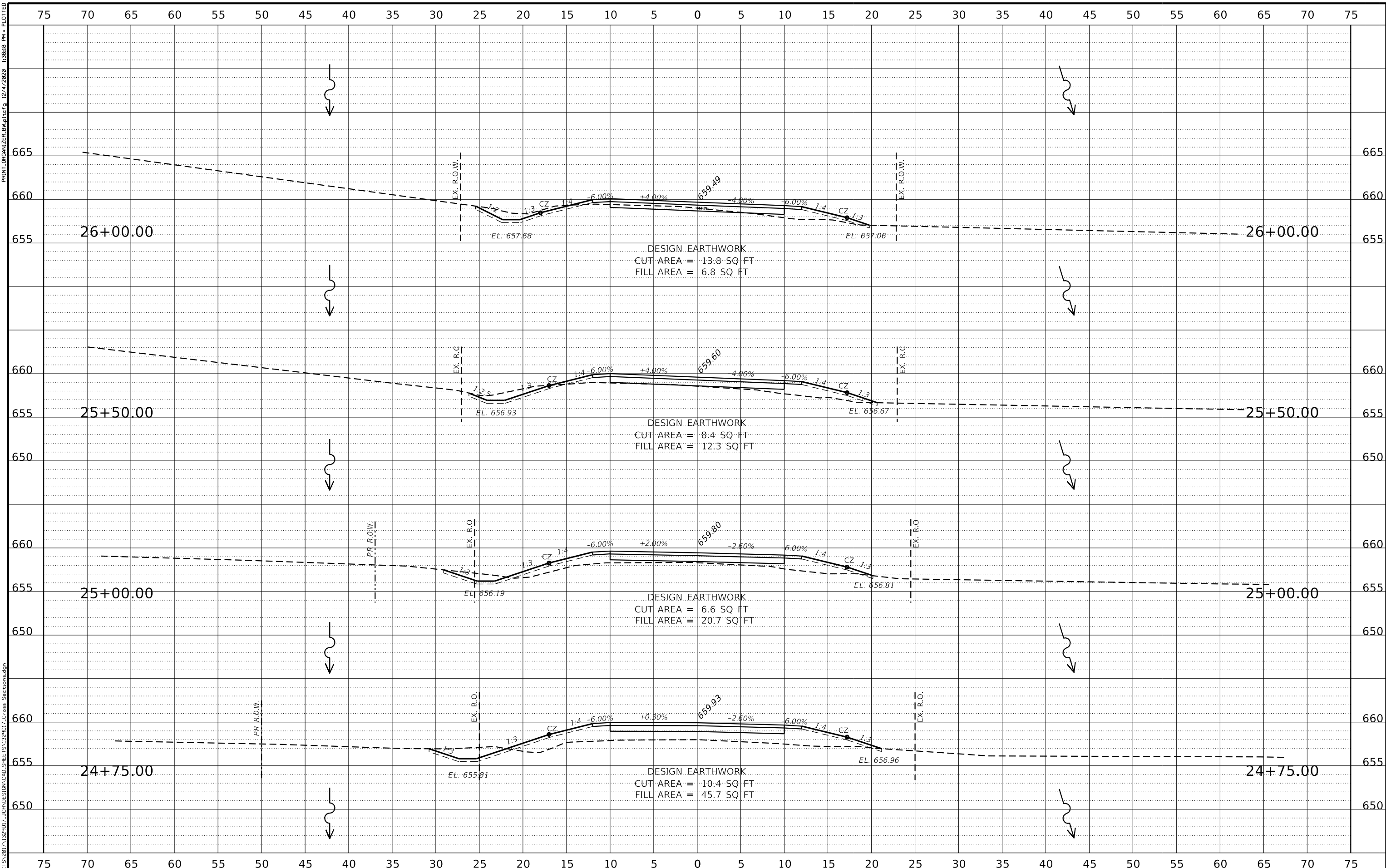
CROSS SECTIONS

SCALE: 1" = 5'-0" SHEET NO. 12 OF 18 SHEETS STA. 24+00.00 TO STA. 25+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	44
WHA# 1329D17			CONTRACT NO. 85686	
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CHECKED	- PLP	REVISED	-

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

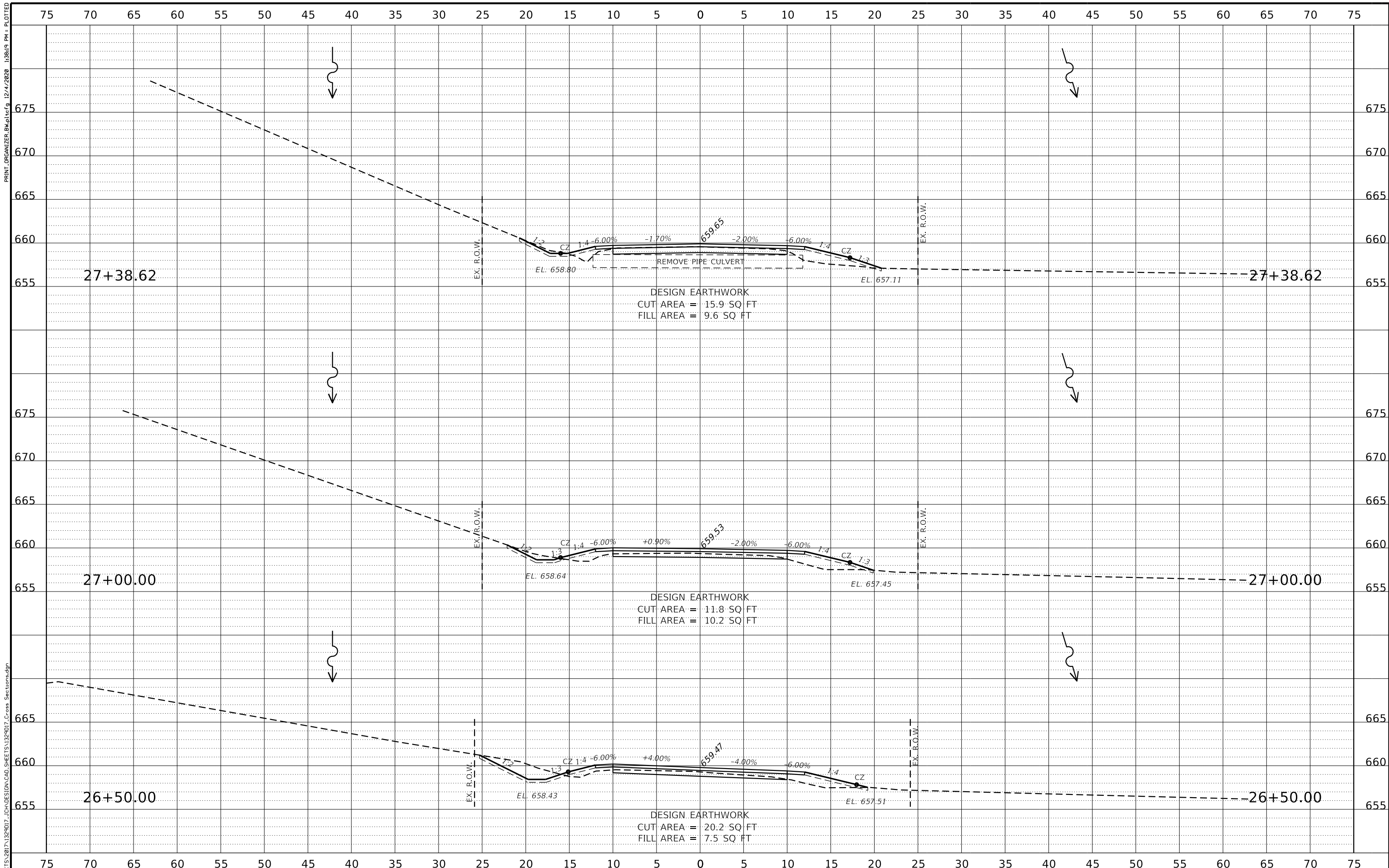
CROSS SECTIONS

SCALE: 1" = 5'-0" SHEET 13 OF 18 SHEETS STA. 24+75.00 TO STA. 26+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	45
WHA# 1329D17		CONTRACT NO. 85686		
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DRAWN	- FDL	REVISED	-
CHECKED	- PLP	REVISED	-

**JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00**

CROSS SECTIONS

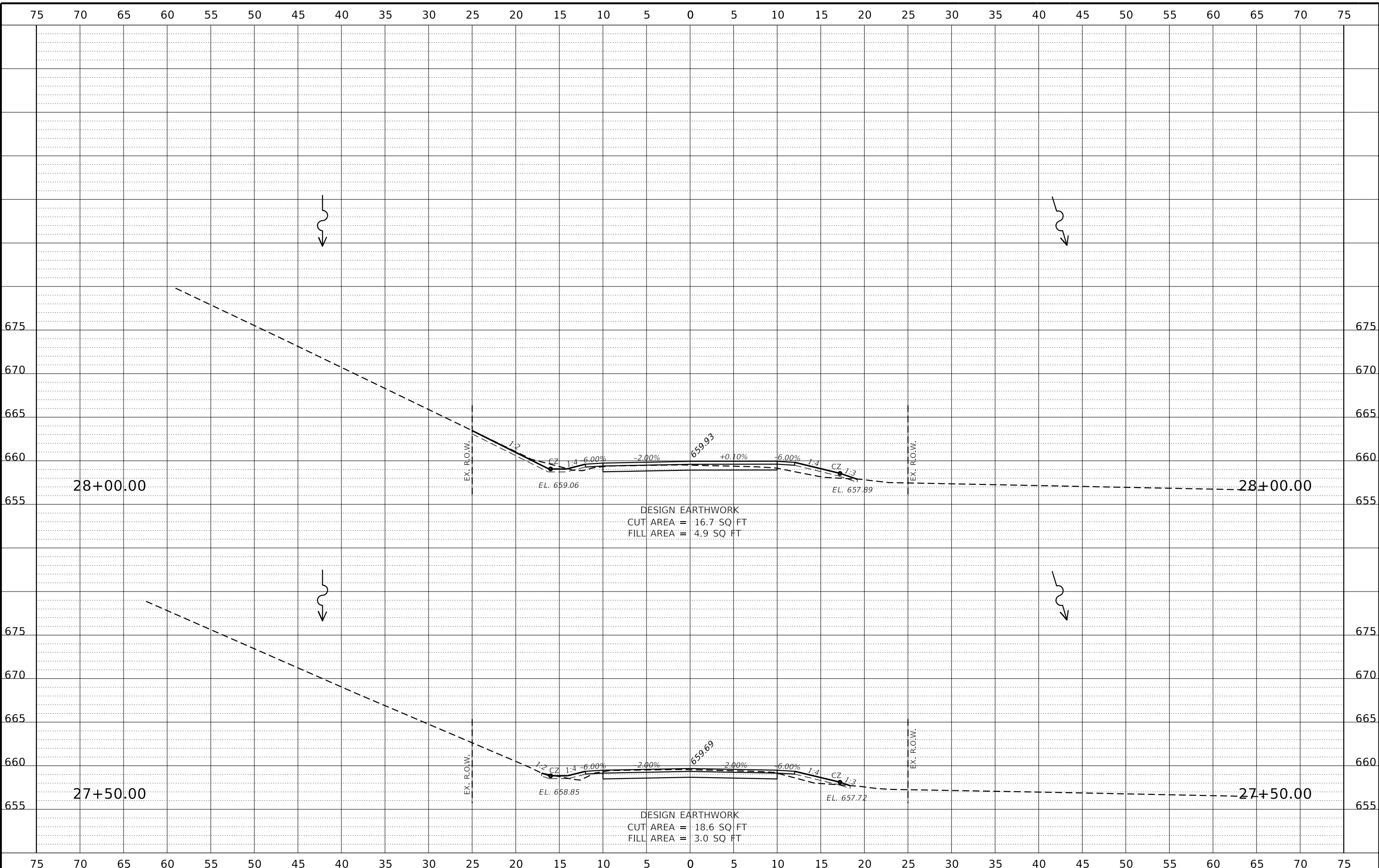
SCALE: 1" = 5'-0" SHEET 14 OF 18 SHEETS STA. 26+50.00 TO STA. 27+38.62

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	46
WHA# 1329D17			CONTRACT NO. 85686	
ILLINOIS FED. AID PROJECT				

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DRAWN	-	FDL	REVISED	-
CHECKED	-	PLP	REVISED	-

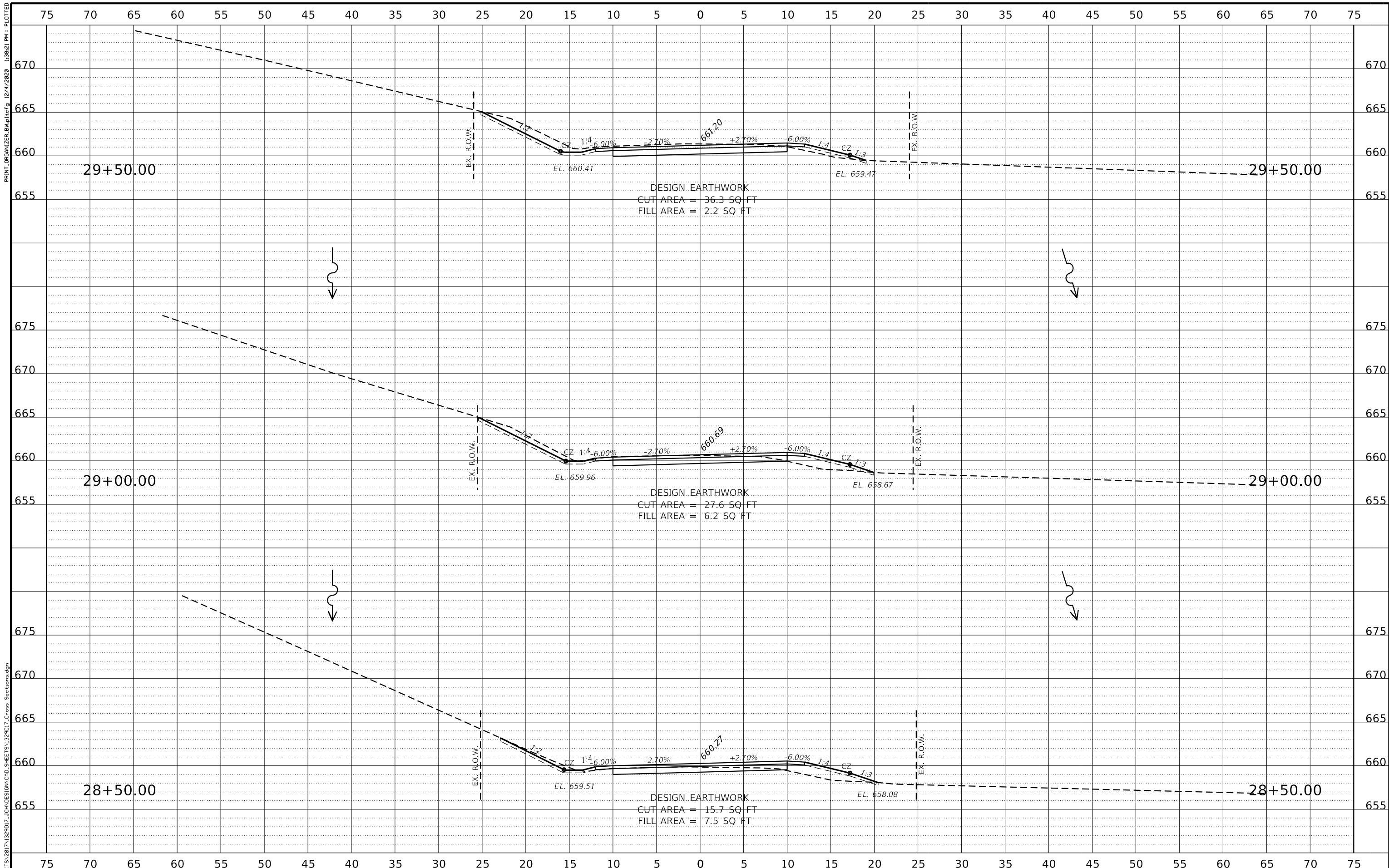
**JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00**

CROSS SECTIONS
SCALE: 1" = 5'-0" SHEET 15 OF 18 SHEETS STA. 27+50.00 TO STA. 28+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	47
WHA# 1329D17			CONTRACT NO. 85686	
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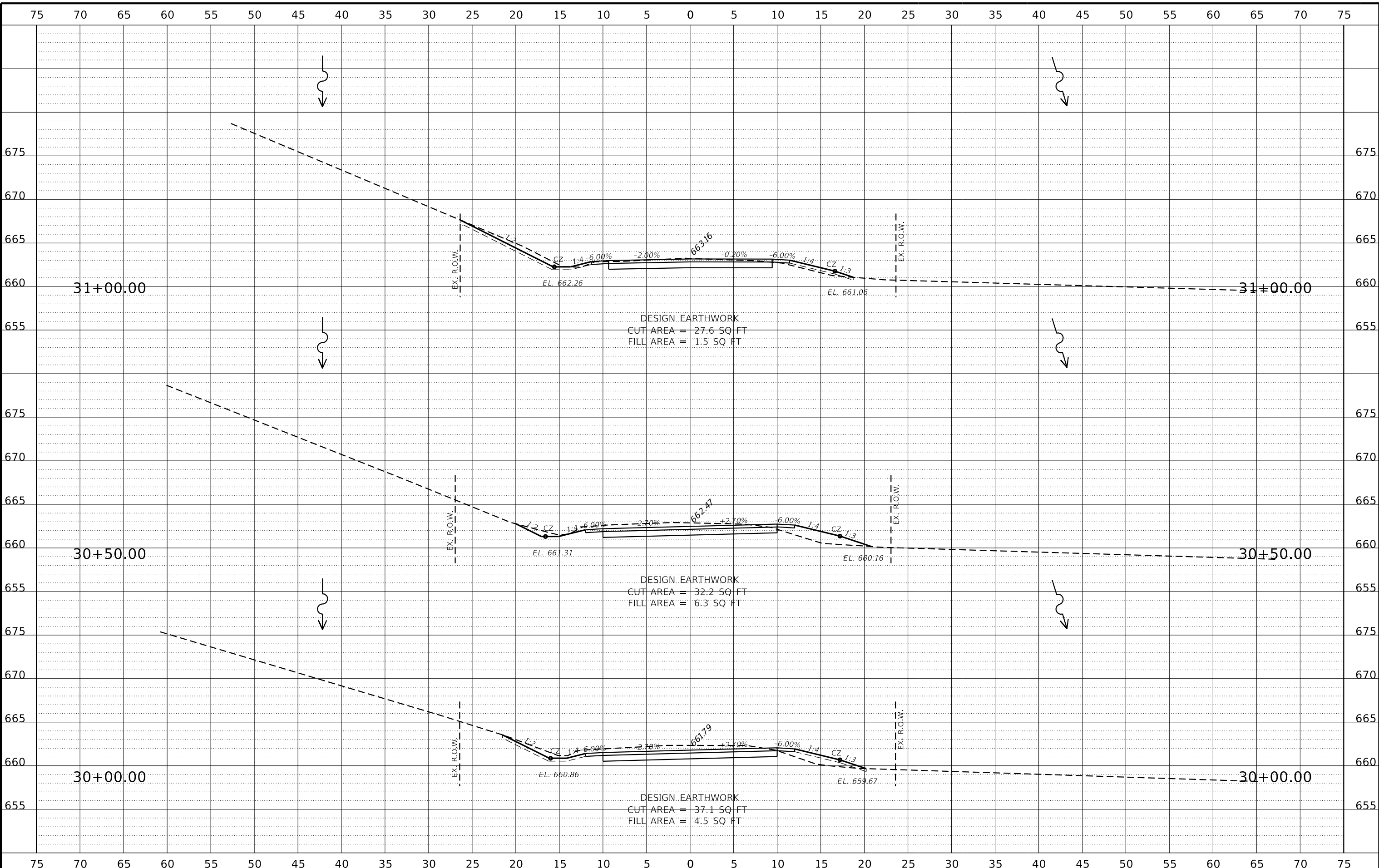
JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

CROSS SECTIONS
 SCALE: 1" = 5'-0" SHEET 16 OF 18 SHEETS STA. 28+50.00 TO STA. 29+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	48
WHA# 1329D17			CONTRACT NO. 85686	
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CHECKED	- PLP	REVISED	-

**JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00**

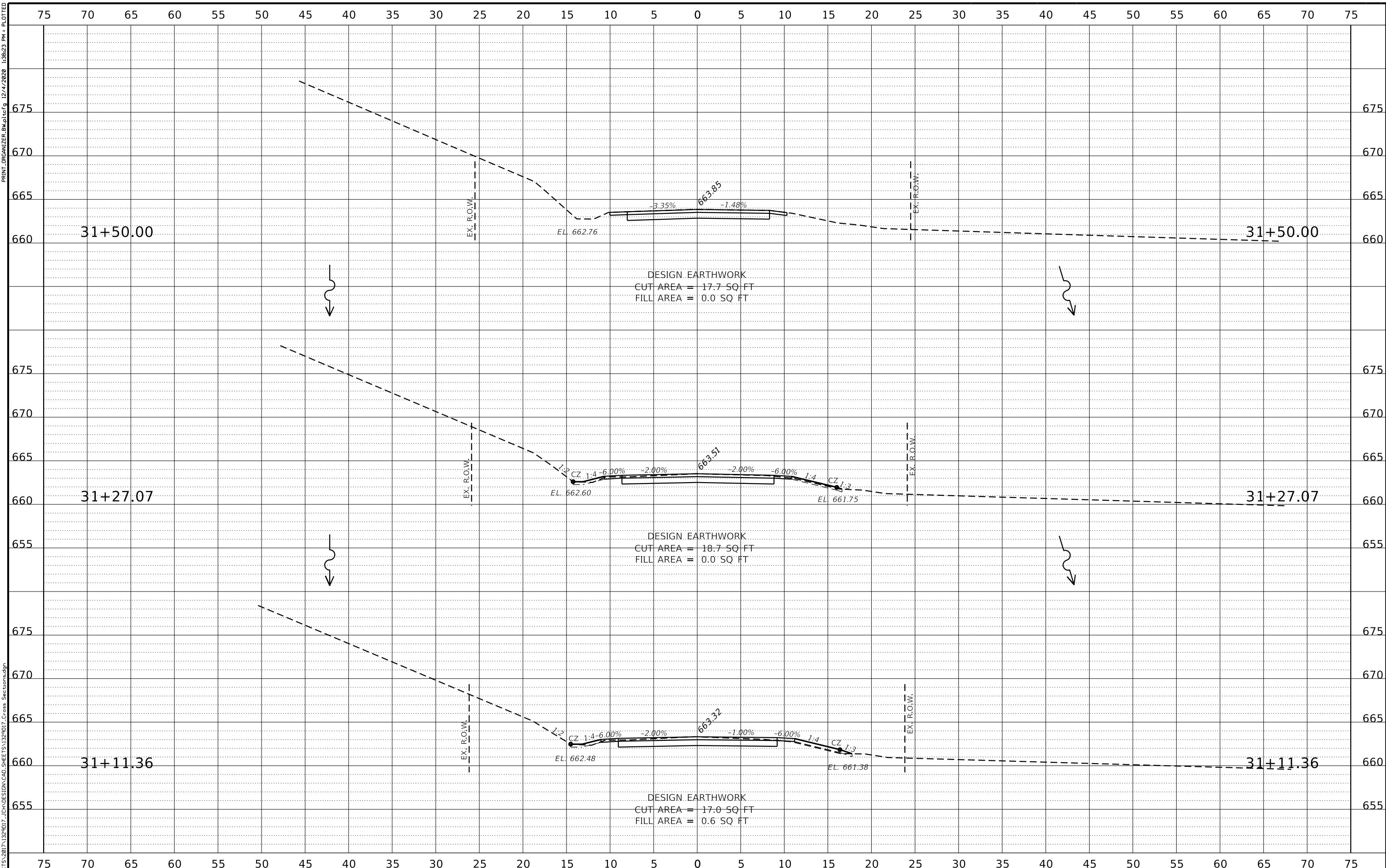
CROSS SECTIONS

SCALE: 1" = 5'-0" SHEET 17 OF 18 SHEETS STA. 30+00.00 TO STA. 31+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	49
WHA# 1329D17			CONTRACT NO. 85686	
ILLINOIS FED. AID PROJECT				

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**JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00**

CROSS SECTIONS

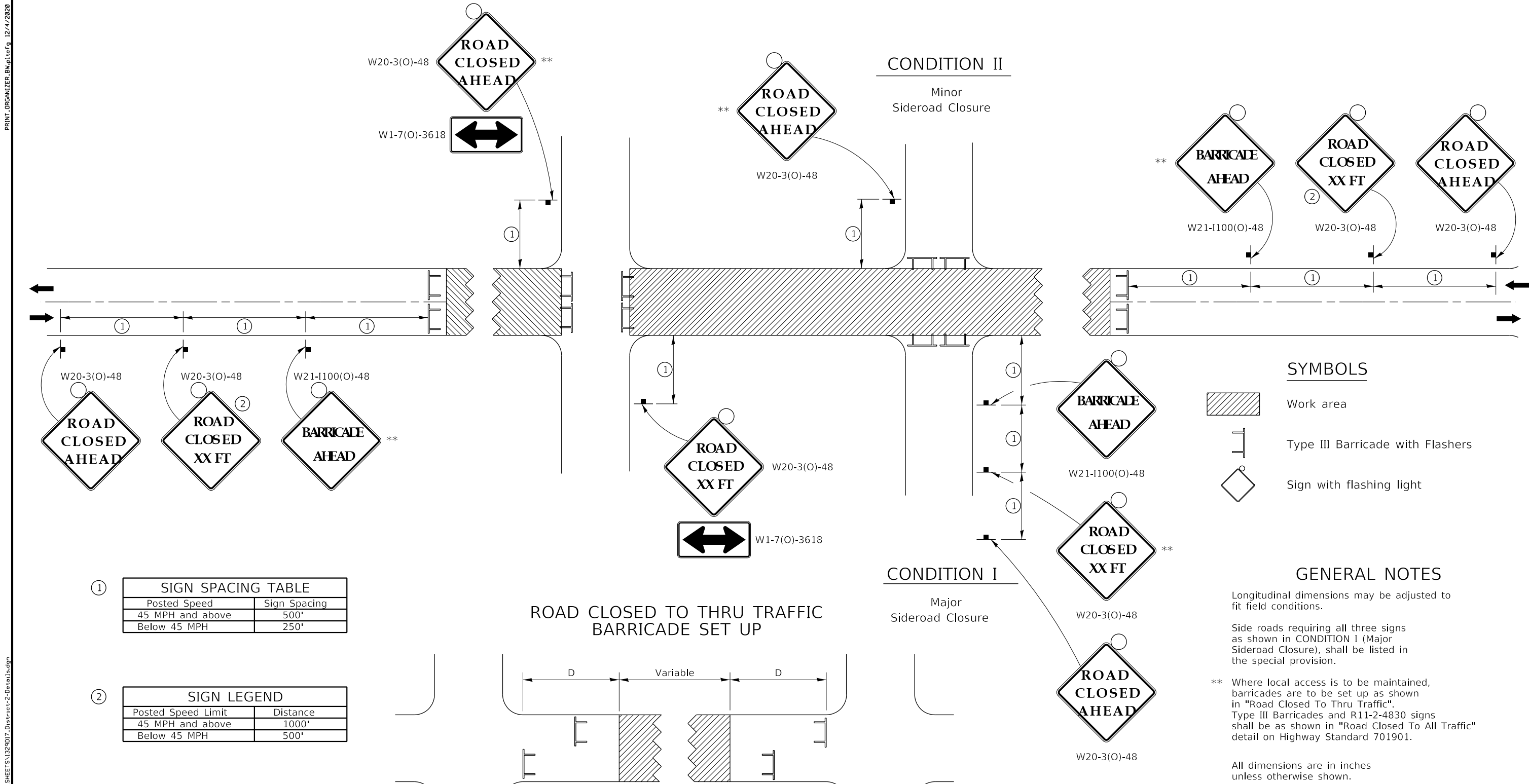
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T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51	50
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TRAFFIC CONTROL FOR ROAD CLOSURE

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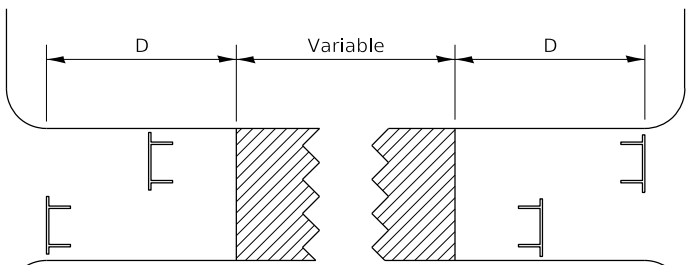
①

SIGN SPACING TABLE	
Posted Speed	Sign Spacing
45 MPH and above	500'
Below 45 MPH	250'

②

SIGN LEGEND	
Posted Speed Limit	Distance
45 MPH and above	1000'
Below 45 MPH	500'

ROAD CLOSED TO THRU TRAFFIC BARRICADE SET UP



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 2000' an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

CONDITION I

Major Sideroad Closure

CONDITION II

Minor Sideroad Closure

SYMBOLS

- Work area
- Type III Barricade with Flashers
- Sign with flashing light

GENERAL NOTES

- Longitudinal dimensions may be adjusted to fit field conditions.
- Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.
- ** Where local access is to be maintained, barricades are to be set up as shown in "Road Closed To Thru Traffic". Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.
- All dimensions are in inches unless otherwise shown.

TRAFFIC CONTROL FOR ROAD CLOSURE 40.1

TYPICAL APPLICATION FOR ROAD CLOSURE

- REVISED - 8-03-17
- REVISED - 1-05-16
- REVISED - 8-27-13
- REVISED - 10-17-11



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DRAWN - FDL	REVISED -
CHECKED - PLP	REVISED -

JO DAVIESS COUNTY
T.R. 135 (S. APPLE RIVER ROAD) OVER APPLE RIVER
STATION 20+00

REGION 2 / DISTRICT 2 STANDARD

T.R.	SECTION	COUNTY	TOTAL SHEET NO.
135	17-23125-00-BR	JO DAVIESS	51 51
WHA# 1329D17		CONTRACT NO. 85686	
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