

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	1
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

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11-06-2020 LETTING ITEM 112

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

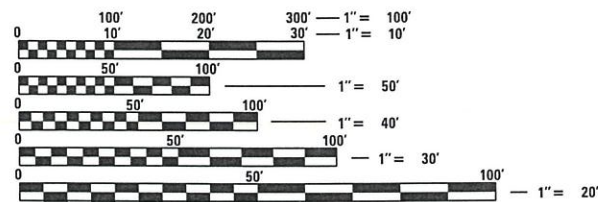
**PLANS FOR PROPOSED
FEDERAL AID PROJECT
SURFACE TRANSPORTATION
PROGRAM – BRIDGE (FY-21)**

CH 8 (S. WYANET-WALNUT ROAD)
SECTION 09-00217-00-BR
PROJECT L9CN(178)
STRUCTURE REPLACEMENT
BUREAU COUNTY

C-93-004-21



FOR LIST OF UTILITIES
SEE SHEET NO. 4



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

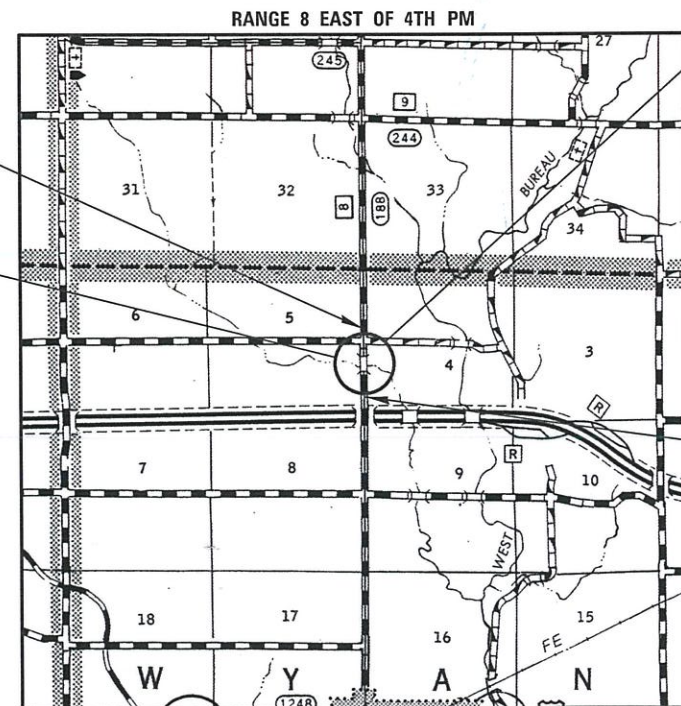
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER – SM
PROJECT MANAGER – BKC

CONTRACT NO. 87737

EXISTING STRUCTURE; SN 006-3240
A SINGLE SPAN (21'-10") CONCRETE SLAB BRIDGE
ON CLOSED REINFORCED CONCRETE ABUTMENTS.
STA. 20+00.

FUNCTIONAL CLASSIFICATION
LOCAL ROAD (NON-URBAN)
DESIGN SPEED 50 MPH
2021 ADT = 812
3R GUIDELINES



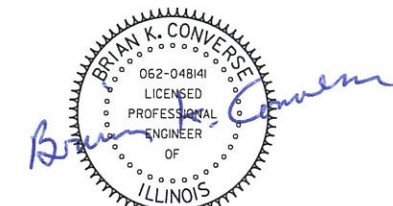
GROSS LENGTH = 700 FT = 0.13 MILE
NET LENGTH = 700 FT = 0.13 MILE

PROPOSED STRUCTURE; SN 006-3248
A SINGLE SPAN (63'-11") PPC IL-BEAM
BRIDGE ON SPILL-THRU ABUTMENTS AT
STATION 20+00.

CONSTRUCTION BEGINS
STATION 17+00.00

CONSTRUCTION ENDS
STATION 24+00.00

BUREAU COUNTY HIGHWAY DEPARTMENT	
APPROVED	08/24/20 2020
<i>[Signature]</i> BUREAU COUNTY ENGINEER	
PASSED	Sept 01, 2020
<i>[Signature]</i> DISTRICT 3 LOCAL ROADS & STREETS ENGINEER	
RELEASING FOR BID BASED ON LIMITED REVIEW	9-1-2020
<i>[Signature]</i> REGION 2 ENGINEER	



DATE: 08/25/2020
EXPIRES 11/30/21



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SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE: 0010

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	40
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100
20300100	CHANNEL EXCAVATION	CU YD	707
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2,213
25100630	EROSION CONTROL BLANKET	SQ YD	2,324
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	48
28000305	TEMPORARY DITCH CHECKS	FOOT	196
28000400	PERIMETER EROSION BARRIER	FOOT	827
28000500	INLET AND PIPE PROTECTION	EACH	1
28200200	FILTER FABRIC	SQ YD	526
* 30300011	AGGREGATE SUBGRADE IMPROVEMENT	TON	1,012
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	530
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	266
* 40603100	HOT-MIX ASPHALT BINDER COURSE, IL-19.0L, N30	TON	250
* 40604090	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5L, MIX "C", N30	TON	126

* INDICATES SPECIAL PROVISION

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	68
48100100	AGGREGATE SHOULDERS, TYPE A	TON	316
* 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
* 50300225	CONCRETE STRUCTURES	CU YD	69.3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	72.8
50300260	BRIDGE DECK GROOVING	SQ YD	392
50300300	PROTECTIVE COAT	SQ YD	419
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	83.3
* 50401305	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL27N	FOOT	326
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	57,310
Δ 50901050	STEEL RAILING, TYPE SM	FOOT	136
51200958	FURNISHING METAL SHELL PILES 14" X 0.250"	FOOT	112
51202305	DRIVING PILES	FOOT	112
51203200	TEST PILE METAL SHELLS	EACH	2
51204650	PILE SHOES	EACH	10

* INDICATES SPECIAL PROVISION

Δ SPECIALTY ITEM



DESIGNED - CBG
 CHECKED - CFS
 DRAWN - CBG
 CHECKED - BKC

REVISED - -
 REVISED - -
 REVISED - -
 REVISED - -

BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

SUMMARY OF QUANTITIES

SHEET NO. 1 OF 2 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	2
CONTRACT# 87737			WHA# 1198013	
ILLINOIS		FED. AID PROJECT L9CN(178)		

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SUMMARY OF QUANTITIES

CONSTRUCTION TYPE CODE: 0010

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
51500100	NAME PLATES	EACH	1
* 52200015	PERMANENT SHEET PILING	SQ FT	5,300
54262715	METAL FLARED END SECTIONS 15"	EACH	2
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	30
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	67
Δ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	325
Δ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
Δ * 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	629
Δ 63500105	DELINEATORS	EACH	5
67100100	MOBILIZATION	L SUM	1
Δ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,200
Δ 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	150
Δ 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10

* INDICATES SPECIAL PROVISION

Δ SPECIALTY ITEM

PAY CODE	PAY ITEM	UNIT	QUANTITY
	NAME		
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1
* Z0022800	FENCE REMOVAL	FOOT	23
* Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	497
* X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	1,013
* X2070302	POROUS GRANULAR EMBANKMENT, SPECIAL	TON	763
* X2501100	SEEDING, CLASS 3 (SPECIAL)	ACRE	0.48
* X2810212	STONE RIPRAP, CLASS A6 (SPECIAL)	TON	1,166
* X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

* INDICATES SPECIAL PROVISION



DESIGNED -	CBC	REVISED -	
CHECKED -	GFS	REVISED -	
DRAWN -	CBC	REVISED -	
CHECKED -	BKC	REVISED -	

BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

SUMMARY OF QUANTITIES

SHEET NO. 2 OF 2 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B	09-00217-00-BR	BUREAU	43	3
CONTRACT# 87737		WHA# 1198013		
ILLINOIS		FED. AID PROJECT L9CN(178)		

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HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREA OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406-00	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
542401-03	METAL FLARED END SECTION FOR PIPE CULVERTS
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635001-02	DELINEATORS
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-02	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) (ROAD CLOSED TO THRU TRAFFIC)
B.L.R. 27-1	TRAFFIC BARRIER TERMINAL TYPE 5A
728001-01	TELESCOPING STREET SIGN SUPPORT
729001-01	APPLICATIONS OF TYPE A AND B METAL POSTS (FOR SIGNS & MARKERS)

GENERAL NOTES

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

EXISTING STRUCTURES (INCLUDING FOUNDATIONS, WALLS, CISTERNS, WELLS, OR OTHER UNDERGROUND STRUCTURES) WITHIN THE RIGHT OF WAY SHALL BE REMOVED IN ACCORDANCE WITH ARTICLE 501.04 AND 501.05 OF THE STANDARD SPECIFICATIONS, WITHOUT ADDITIONAL COMPENSATION, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS.

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.

THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS.

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"(BDE SP 80247), 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.

PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:

- ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
- ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
- THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.

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.

ALL PAVEMENT SHALL BE CLEANED AND "FRESH OIL" SIGNS SHALL BE PLACED AT ALL INTERSECTIONS OF THE STREETS PRIOR TO APPLYING BITUMINOUS MATERIALS (PRIME COAT).

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.

ALL UTILITY POLES, GAS PIPES, ETC. IN THE WAY OF THE IMPROVEMENTS SHALL BE MOVED BY THE UTILITIES PRIOR TO CONSTRUCTION AND SHALL NOT BE INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITIES TO MAKE THE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION.

THE LOCATION AND ELEVATION OF THE VARIOUS UNDERGROUND UTILITIES, EXISTING FIELD TILES AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM TO PREVENT DAMAGE. EXACT LOCATION OF ALL FIELD TILES AND UTILITIES ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

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:

NATURAL GAS
 ATTN: MARK CAVAZOS
 1001 LOUISIANA STREET,
 SUITE 1202 B
 HOUSTON, TEXAS 77002
 (713) 420-2337
 PMCENTRALENCROACHMENTS@
 KINDERMORGAN.COM

CORN BELT ENERGY CORP.
 ATTN: JAY IVERS
 1 ENERGY WAY
 BLOOMINGTON IL 61028
 ((309) 662-5330
 JAMES.IVERS@CORNBELTENERGY.COM

FRONTIER COMMUNICATIONS
 ATTN: TERRY SPURGEON
 111 S. MAIN ST
 KEWANEE, IL 61443
 (815) 895-1538
 TERRY.SPURGEON@FTR.COM

AMEREN ILLINOIS (NORTH)
 ATTN: GINA LOVELL
 (309) 852-2963
 (309) 312-1679
 GLOVELL@AMEREN.COM

THE CROSS SECTION CUTS AND FILLS ARE SHOWN IN A SPREAD SHEET FOUND ON SHEET 1 OF 6 CROSS SECTIONS SHEETS, SHEET NUMBER 33 OF THE TOTAL PLANS SET.

THE AREA TO BE PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA ON THE NEXT DAYS PRODUCTIVITY, BUT NO MORE THAN FIVE (5) DAYS IN ADVANCE OF THE PLACEMENT OF THE HMA, UNLESS APPROVED BY THE ENGINEER.

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. ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED WITH REGARD TO WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER DATE OF FINAL PAYMENT TO THE CONTRACTOR; DEFECTS WHICH ARISE DURING THE GUARANTEE PERIOD SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER WITHIN 30 DAYS OF RECEIVING NOTIFICATION OF THE DEFECT.

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

GENERAL NOTES (CONT.)

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.

BRIDGE FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOB SITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.

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.

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 VERTICAL 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.

COMMITMENTS

- ALL TREE CLEARING SHALL TAKE PLACE BETWEEN OCTOBER 1ST AND MARCH 31ST TO SATISFY USFWS BAT REQUIREMENTS.
- THE CURRENT BAT ASSESSMENT IS VALID UNTIL 11/29/2020; THE CONTRACTOR SHALL BE RESPONSIBLE FOR UPDATING ANY EXPIRED ASSESSMENT AND RESUBMITTING TO THE ENGINEER.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE DESIGN	HMA BINDER	HMA SURFACE
PG GRADE:	PG 58-28	PG 58-28
DESIGN AIR VOIDS	4.0% @ N30	4.0% @ N30
MIXTURE COMPOSITION	IL 19.0L	IL 9.5
FRICTION AGGREGATE	N/A	C
DENSITY TEST METHOD	LR 1030	LR 1030
MIX UNIT WEIGHT	112LBS/SY/IN	112LBS/SY/IN
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A
LOCATION(S)	ENTIRE PROJECT	ENTIRE PROJECT

PROJECT CONTROL

VERTICAL CONTROL			
BENCHMARK	STATION	ELEVATION	DESCRIPTION
400	OUT OF STA	656.71	R.R. SPIKE IN 2ND P.P. SOUTH OF 1745N & 1400E
401	16.00' LT 19+70	649.99	CHIS "□" ON SW WINGWALL OF STRUCTURE
402	35.00' LT 15+70	655.64	R.R. SPIKE IN 2ND P.P. @ HOUSE #17238

HORIZONTAL CONTROL					
POINT #	STATION	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	OUT OF STA	1725086.856	2455273.523	660.638	5/8 REBAR - 818' NORTH FROM CENTER OF THE BRIDGE (LT)
101	OUT OF STA	1723642.668	2455371.660	654.380	5/8 REBAR - 626' SOUTH FROM CENTER OF THE BRIDGE (RT)



DESIGNED -	GBG	REVISED -	
CHECKED -	GFS	REVISED -	
DRAWN -	GBG	REVISED -	
CHECKED -	BKC	REVISED -	

BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

GENERAL NOTES

SHEET NO. 1 OF 1 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	4
CONTRACT # 87737			WHA # 1198D13	
ILLINOIS		FED. AID PROJECT 19CN(178)		

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SCHEDULE OF QUANTITIES

C.H. 8 (S. Wyanet-Walnut Rd) EARTH QUANTITIES

LOCATION	EARTH EXCAVATION (SPECIAL) X2020410*	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE OR WASTE 75%	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
C.H. 8 (S. Wyanet-Walnut Rd) STA. 16+50.00 STA. 24+00.00	1,013	760	324	436
TOTALS	1,013	760	324	436

TREE REMOVAL (6 TO 15 UNITS DIAMETER)

STATION	UNIT	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 20+40.3 - RT 32.3'	10	
STA: 20+43.5 - RT 31.8'	10	
STA: 20+43.7 - RT 31.7'	10	
STA: 20+44.0 - RT 31.7'	10	
PROJECT TOTAL	40	

20100110

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

STATION	CU YD	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
ENTIRE PROJECT	100	10% OF PAVEMENT AREA
PROJECT TOTAL	100	

20201200

TOPSOIL FURNISH AND PLACE, 4"

STATION	SQ YD	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 16+90.0 to 17+20.4 - RT	62	
STA: 16+90.0 to 19+56.1 - LT	685	
STA: 17+44.5 to 19+56.1 - RT	333	
STA: 20+44.0 to 24+00.0 - LT	846	
STA: 21+45.2 to 24+00.0 - RT	287	
PROJECT TOTAL	2,213	

21101615

EROSION CONTROL BLANKET

STATION	SQ YD	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 16+90.0 to 17+20.4 - RT	62	
STA: 16+90.0 to 19+56.1 - LT	685	
STA: 17+44.5 to 19+56.1 - RT	333	
STA: 20+44.0 to 24+00.0 - LT	846	
STA: 21+45.2 to 24+00.0 - RT	287	
STA: 20+43.9 to 23+75.0 - RT	111	BEHIND SHEET PILE WALL
PROJECT TOTAL	2,324	

25100630

TEMPORARY EROSION CONTROL SEEDING

STATION	POUND	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
ENTIRE PROJECT	48	ONE APPLICATION 100 LBS / ACRE
PROJECT TOTAL	48	

28000250

TEMPORARY DITCH CHECKS

STATION	FOOT	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 17+25.0 - LT	12	
STA: 17+75.0 - LT	12	
STA: 17+75.0 - RT	8	
STA: 18+25.0 - LT	12	
STA: 18+25.0 - RT	8	
STA: 18+75.0 - LT	12	
STA: 18+75.0 - RT	12	
STA: 19+00.0 - LT	12	
STA: 19+25.0 - LT	12	
STA: 21+00.0 - RT	10	
STA: 21+75.0 - LT	12	
STA: 22+00.0 - RT	12	
STA: 22+25.0 - LT	12	
STA: 22+75.0 - LT	12	
STA: 23+00.0 - RT	12	
STA: 23+25.0 - LT	10	
STA: 23+64.0 - RT	8	
STA: 23+75.0 - LT	8	
PROJECT TOTAL	196	

28000305

PERIMETER EROSION BARRIER

STATION	FOOT	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 18+00.0 to 19+70.0 - RT	170	
STA: 18+50.0 to 19+70.0 - LT	120	
STA: 20+44.0 to 22+50.0 - LT	206	
STA: 20+44.0 TO 23+75.0 - RT	331	
PROJECT TOTAL	827	

28000400

INLET AND PIPE PROTECTION

STATION	EACH	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 17+15.1 - RT 25.3	1	PIPE CULVERT
PROJECT TOTAL	1	

28000500

FILTER FABRIC

STATION	SQ YD	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 20+33.9 to 23+98.8	526	BETWEEN GRANULAR SELECT BACKFILL FOR STRUCTURES AND TOPSOIL OR AGGREGATE SHOULDER MATERIAL
PROJECT TOTAL	526	

28200200

AGGREGATE SUBGRADE IMPROVEMENT

STATION	TON	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 17+00.0 to 19+37.1	433	ROADWAY - 12"
STA: 19+37.1 to 19+67.1	73	APPROACH PAVEMENT - 12"
STA: 20+32.9 to 20+62.9	73	APPROACH PAVEMENT - 12"
STA: 20+62.9 to 23+00.0	433	ROADWAY - 12"
PROJECT TOTAL	1,012	

* 30300011



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**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

SCHEDULE OF QUANTITIES
SHEET NO. 1 OF 3 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	5
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS	FED. AID PROJECT	L9CN(178)		

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SCHEDULE OF QUANTITIES

BITUMINOUS MATERIALS (PRIME COAT)		
STATION	POUND	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 17+00.0 to 19+37.1	265	BINDER ON AGGREGATE
STA: 20+62.9 to 23+00.0	265	BINDER ON AGGREGATE
		0.05 LBS / SQ FT
PROJECT TOTAL	530	
40600275		

BITUMINOUS MATERIALS (TACK COAT)		
STATION	POUND	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 17+00.0 to 19+37.1	133	SURFACE ON BINDER COURSE
STA: 20+62.9 to 23+00.0	133	SURFACE ON BINDER COURSE
		0.025 LBS / SQ FT
PROJECT TOTAL	266	
40600290		

HOT-MIX ASPHALT BINDER COURSE, IL-19.0L, N30		
STATION	TON	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 17+00.0 to 19+27.1	125	DEPTH = 4"
STA: 20+72.9 to 23+00.0	125	DEPTH = 4"
		112 LBS / SY / IN
PROJECT TOTAL	250	
*40603100		

HOT-MIX ASPHALT SURFACE COURSE, IL-9.5L, MIX "C", N30		
STATION	TON	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 17+00.0 to 19+27.1	63	DEPTH = 2"
STA: 20+72.9 to 23+00.0	63	DEPTH = 2"
		112 LBS / SY / IN
PROJECT TOTAL	126	
*40604090		

PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB		
STATION	SQ YD	REMARKS
ROADWAY		
STA: 19+27.1 to 19+37.1	34	
STA: 20+62.9 to 20+72.9	34	
PROJECT TOTAL	68	
42000070		

AGGREGATE SHOULDERS, TYPE A		
STATION	TON	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 17+00.0 to 17+14.1 - RT	2	DEPTH = 6"
STA: 17+00.0 to 19+66.1 - LT	55	DEPTH = 6"
STA: 17+32.1 - RT	32	FIELD ENTRANCE - 8"
STA: 17+49.1 to 19+66.1 - RT	60	DEPTH = 6"
STA: 20+33.9 to 24+00.0 - RT	88	DEPTH = 6"
STA: 20+33.9 to 24+00.0 - LT	79	DEPTH = 6"
		2.05 TON / CU YD
PROJECT TOTAL	316	
48100100		

METAL FLARED END SECTIONS 15"		
STATION	EACH	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 17+15.1 - RT 25.3	1	
STA: 17+49.4 - RT 27.1	1	
PROJECT TOTAL	2	
54262715		

PIPE CULVERTS, CLASS D, TYPE 1 15"		
STATION	FOOT	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 17+17.3 to 17+47.3 - RT 26.2'	30	
PROJECT TOTAL	30	
542D0220		

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS		
STATION	FOOT	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 18+28.8 to 19+53.8 - RT 15.0'	125	10 SECTIONS
STA: 19+16.3 to 19+53.8 - LT 15.0'	38	3 SECTIONS
STA: 20+46.2 to 20+83.7 - RT 15.0'	37	3 SECTIONS
STA: 20+46.2 to 21+71.2 - LT 15.0'	125	10 SECTIONS
		12.5 FT PER SECTION
PROJECT TOTAL	325	
63000001		

TRAFFIC BARRIER TERMINAL, TYPE 5A		
STATION	EACH	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 19+53.8 to 19+67.1 - RT 15.0'	1	
STA: 19+53.8 to 19+67.1 - LT 15.0'	1	
STA: 20+32.9 to 20+46.2 - RT 15.0'	1	
STA: 20+32.9 to 20+46.2 - LT 15.0'	1	
PROJECT TOTAL	4	
63100075		

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT		
STATION	EACH	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 17+77.3 to 18+28.8 - RT 15.0'	1	
STA: 18+64.8 to 19+16.3 - LT 15.0'	1	
STA: 20+83.7 to 21+35.2 - RT 15.0'	1	
STA: 21+71.2 to 22+22.7 - LT 15.0'	1	
PROJECT TOTAL	4	
*63100167		

GUARDRAIL REMOVAL		
STATION	FOOT	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 17+99.1 to 21+14.5 - RT 16.0'	316	
STA: 18+87.8 to 22+00.8 - LT 16.0'	313	
PROJECT TOTAL	629	
63200310		

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**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

SCHEDULE OF QUANTITIES
SHEET NO. 2 OF 3 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	6
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

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SCHEDULE OF QUANTITIES

DELINEATORS

STATION	EACH	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 21+25.0 to 23+75.0 - RT 24.0'	5	ALONG SHEET PILE WALL
PROJECT TOTAL	5	
63500105		

SEEDING, CLASS 3 (SPECIAL)

STATION	ACRE	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
ENTIRE PROJECT	0.48	
PROJECT TOTAL	0.48	
*X2501100		

TERMINAL MARKER - DIRECT APPLIED

STATION	EACH	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 17+77.3 - RT 15.0'	1	
STA: 18+64.8 - LT 15.0'	1	
STA: 21+35.2 - RT 15.0'	1	
STA: 22+22.7 - LT 15.0'	1	
PROJECT TOTAL	4	
72501000		

FENCE REMOVAL

STATION	FOOT	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 19+66.5 - LT 34.2'	6	
STA: 20+30.5 - LT 33.5'	17	
PROJECT TOTAL	23	
*Z0022800		

PAINT PAVEMENT MARKING - LINE 4"

STATION	FOOT	REMARKS
ROADWAY		
STA: 17+00.00 to 23+00.00 - RT	600	SOLID WHITE - EDGE LINE
STA: 17+00.00 to 23+00.00 - LT	600	SOLID WHITE - EDGE LINE
PROJECT TOTAL	1,200	
78001110		

PAINT PAVEMENT MARKING - LINE 6"

STATION	FOOT	REMARKS
ROADWAY		
STA: 17+00.00 to 23+00.00	150	CENTERLINE SKIP DASH - YELLOW
PROJECT TOTAL	150	
78001130		

GUARDRAIL REFLECTORS, TYPE A

STATION	EACH	REMARKS
C.H. 8 (S. Wyanet-Walnut Rd)		
STA: 17+77.3 to 21+35.2 - RT	5	
STA: 18+64.8 to 22+22.7 - LT	5	
PROJECT TOTAL	10	
78200005		



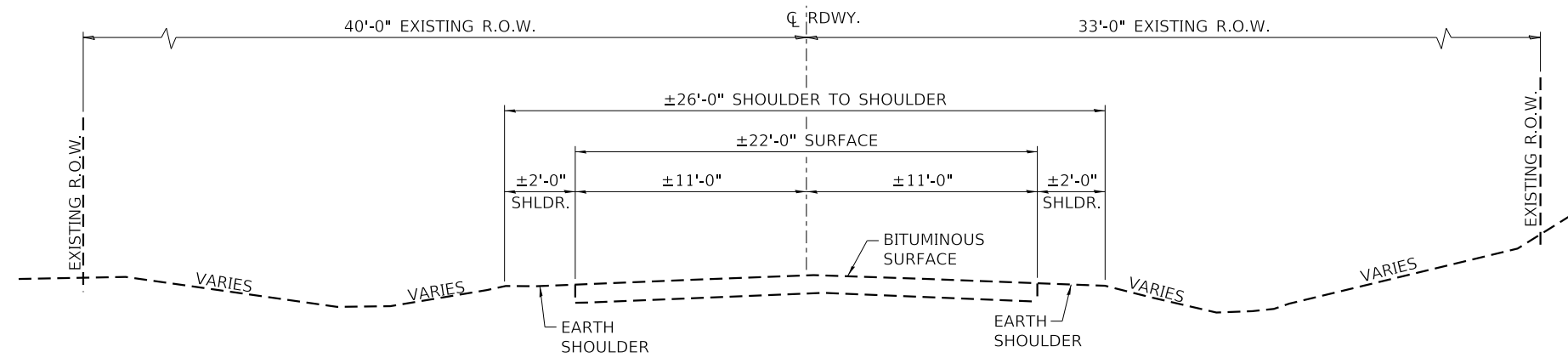
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**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

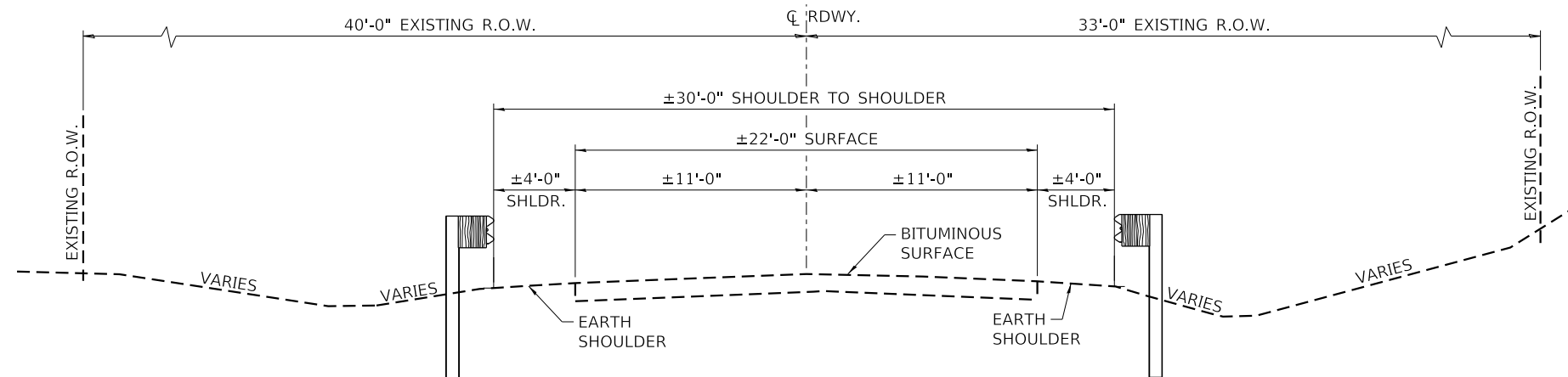
SCHEDULE OF QUANTITIES

SHEET NO. 3 OF 3 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	7
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		



EXISTING ROADWAY TYPICAL SECTION, STATIONS 17+00 - 18+00 AND 22+00 - 26+00



EXISTING ROADWAY TYPICAL SECTION, STATIONS 18+00 - 22+00



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**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

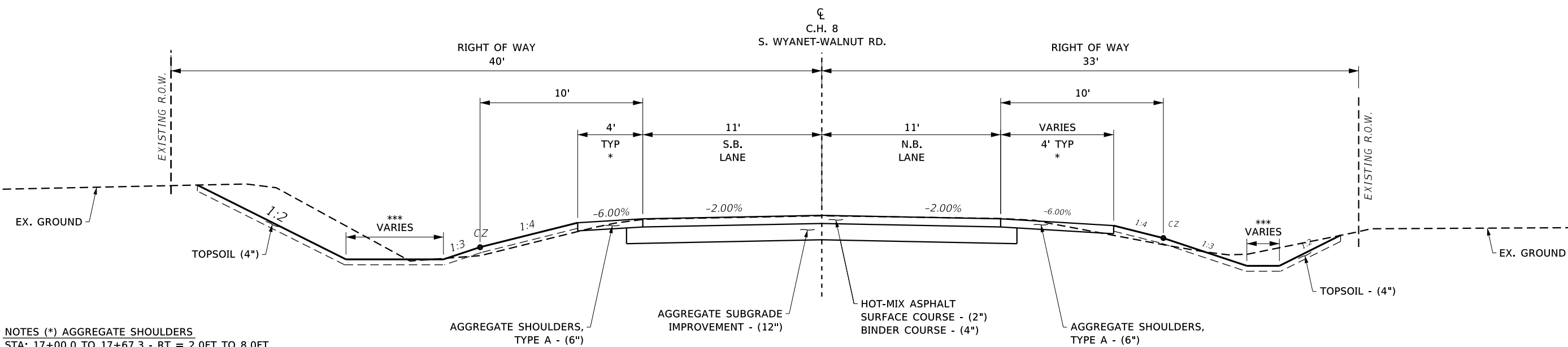
EXISTING ROADWAY TYPICAL SECTIONS

SHEET NO. 1 OF 3 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	8
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

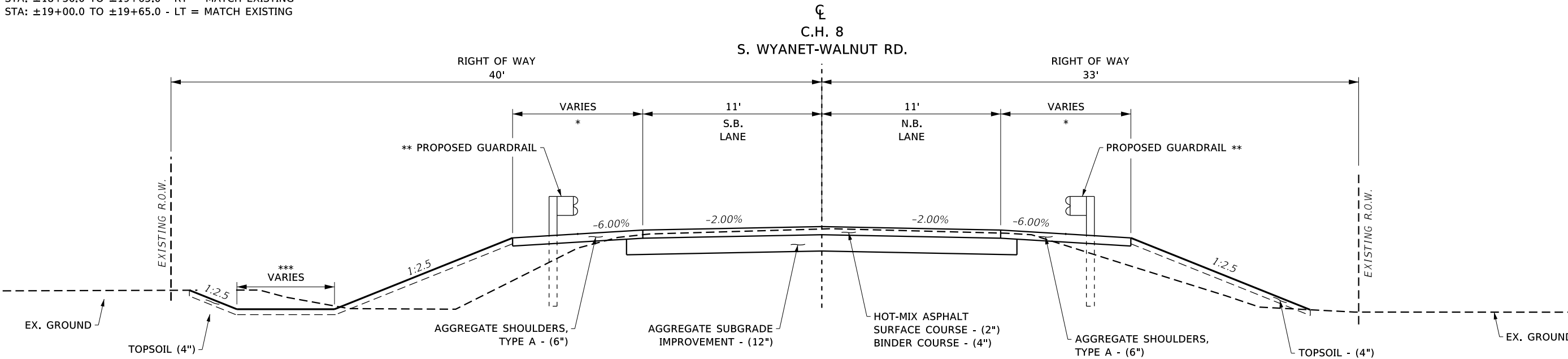
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PROPOSED ROADWAY TYPICAL SECTIONS
(LOOKING NORTH)
STA: 17+00.00 TO 17+77.31

- NOTES (*) AGGREGATE SHOULDERS**
 STA: 17+00.0 TO 17+67.3 - RT = 2.0FT TO 8.0FT
 STA: 17+00.0 TO 17+12.8 - LT = 1.9FT TO 4.0FT
 STA: 17+67.3 TO 19+66.1 - RT = 8.0FT
 STA: 17+12.8 TO 18+30.8 - LT = 4.0FT
 STA: 18+30.8 TO 18+54.8 - LT = 4.0FT TO 8.0FT
 STA: 18+54.8 TO 19+66.1 - LT = 8.0FT
- NOTES (**) PROPOSED GUARDRAIL**
 STA: 17+77.3 TO 19+66.1 - RT
 STA: 18+64.8 TO 19+66.1 - LT
- NOTES (***) DITCH BOTTOM WIDTH**
 STA: 16+90.8 TO ±18+50.0 - RT = 2.0FT
 STA: 17+00.0 TO ±19+00.0 - LT = 6.0FT
 STA: ±18+50.0 TO ±19+65.0 - RT = MATCH EXISTING
 STA: ±19+00.0 TO ±19+65.0 - LT = MATCH EXISTING



PROPOSED ROADWAY TYPICAL SECTIONS
(LOOKING NORTH)
STA: 17+77.31 TO 19+66.08
BRIDGE OMITED
STA: 19+66.08 TO 20+33.92



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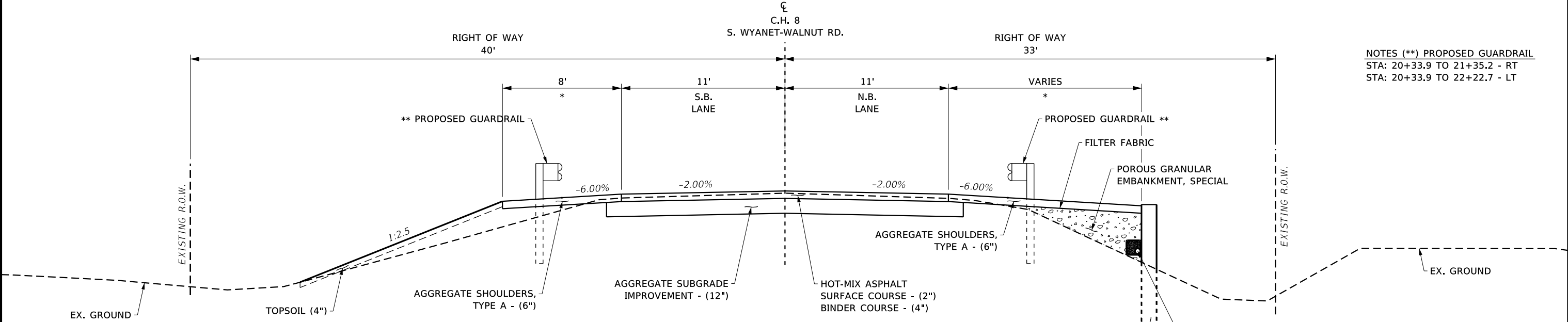
BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

PROPOSED ROADWAY TYPICAL SECTIONS
 SHEET NO. 2 OF 3 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	9
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

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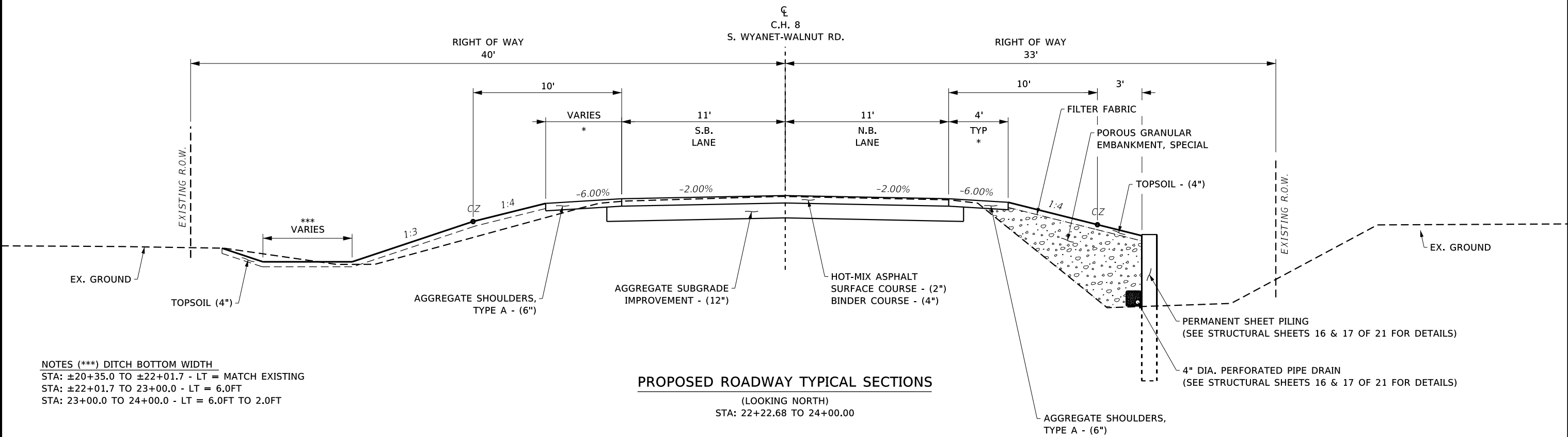
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PROPOSED ROADWAY TYPICAL SECTIONS
(LOOKING NORTH)
STA: 20+33.92 TO 22+22.68

NOTES (**)
PROPOSED GUARDRAIL
STA: 20+33.9 TO 21+35.2 - RT
STA: 20+33.9 TO 22+22.7 - LT

NOTES (*) AGGREGATE SHOULDERS
STA: 20+33.9 TO 21+45.2 - RT = 13.0FT
STA: 21+45.2 TO 21+69.2 - RT = 8.0FT TO 4.0FT
STA: 20+33.9 TO 22+32.7 - LT = 8.0FT
STA: 21+69.2 TO 23+00.0 - RT = 4.0FT
STA: 22+32.7 TO 23+00.0 - LT = 4.0FT
STA: 23+00.0 TO 24+00.0 - RT = 4.0FT TO 2.0FT
STA: 23+00.0 TO 24+00.0 - LT = 4.0FT TO 2.0FT



PROPOSED ROADWAY TYPICAL SECTIONS
(LOOKING NORTH)
STA: 22+22.68 TO 24+00.00

NOTES (***) DITCH BOTTOM WIDTH
STA: ±20+35.0 TO ±22+01.7 - LT = MATCH EXISTING
STA: ±22+01.7 TO 23+00.0 - LT = 6.0FT
STA: 23+00.0 TO 24+00.0 - LT = 6.0FT TO 2.0FT



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BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

PROPOSED ROADWAY TYPICAL SECTIONS

SHEET NO. 3 OF 3 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	10
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

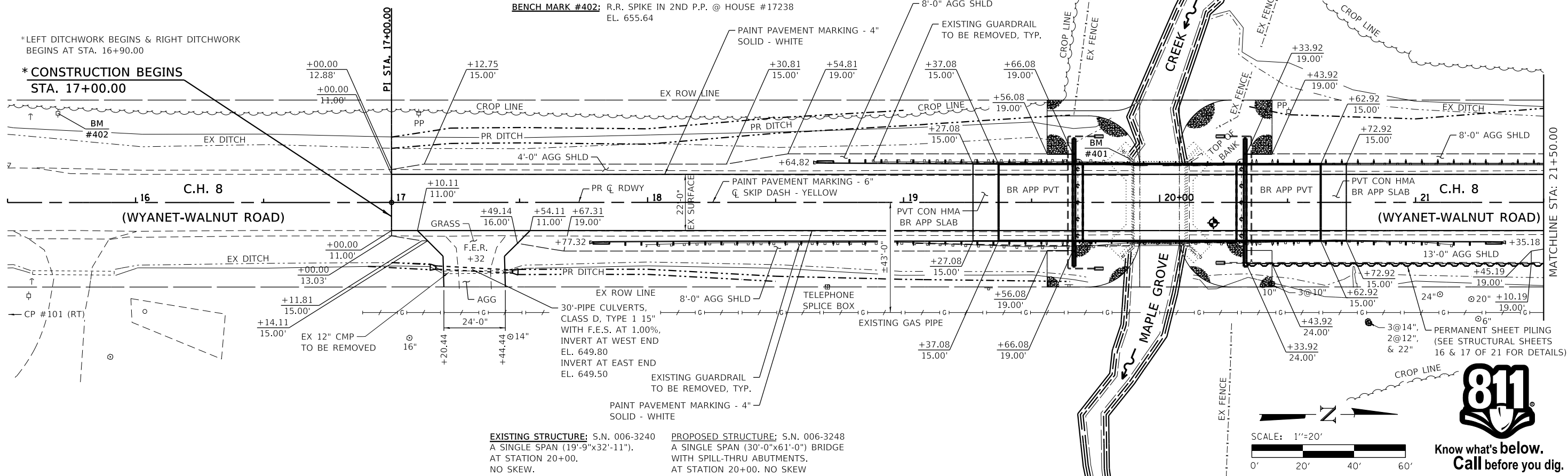
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BENCH MARK #401: CHIS. "□" ON SOUTHWEST WINGWALL OF STR. NO. 006-3240 EL. 649.99

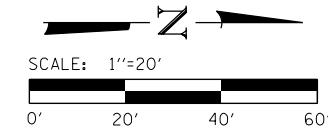
BENCH MARK #402: R.R. SPIKE IN 2ND P.P. @ HOUSE #17238 EL. 655.64

* LEFT DITCHWORK BEGINS & RIGHT DITCHWORK BEGINS AT STA. 16+90.00
 * CONSTRUCTION BEGINS STA. 17+00.00

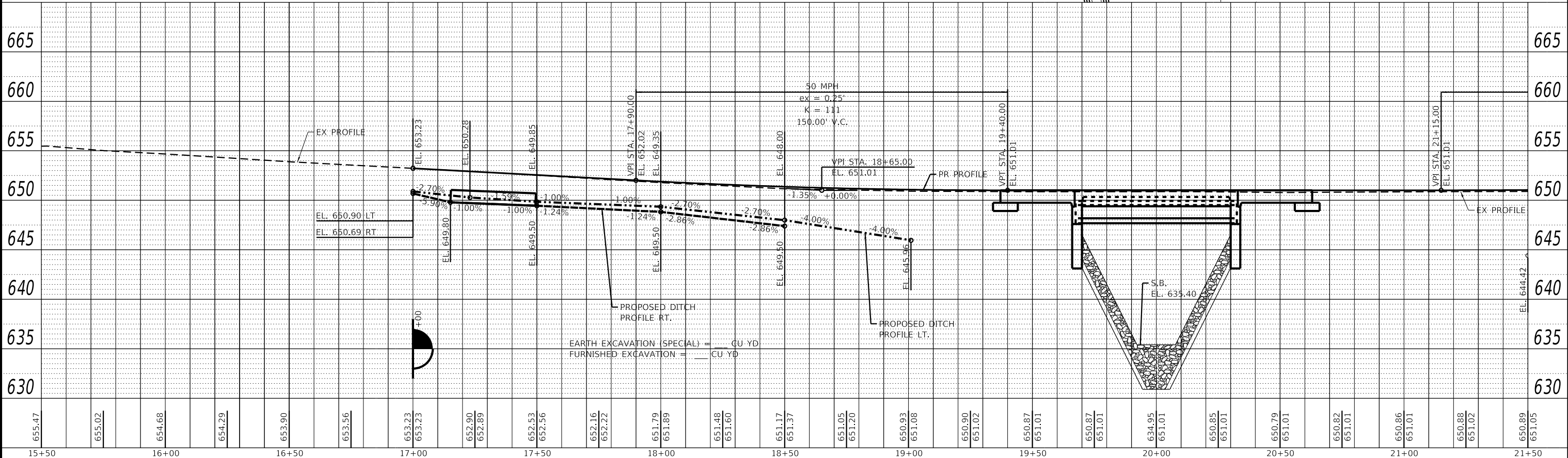


EXISTING STRUCTURE: S.N. 006-3240 A SINGLE SPAN (19'-9"x32'-11"). AT STATION 20+00. NO SKEW.

PROPOSED STRUCTURE: S.N. 006-3248 A SINGLE SPAN (30'-0"x61'-0") BRIDGE WITH SPILL-THRU ABUTMENTS. AT STATION 20+00. NO SKEW.



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



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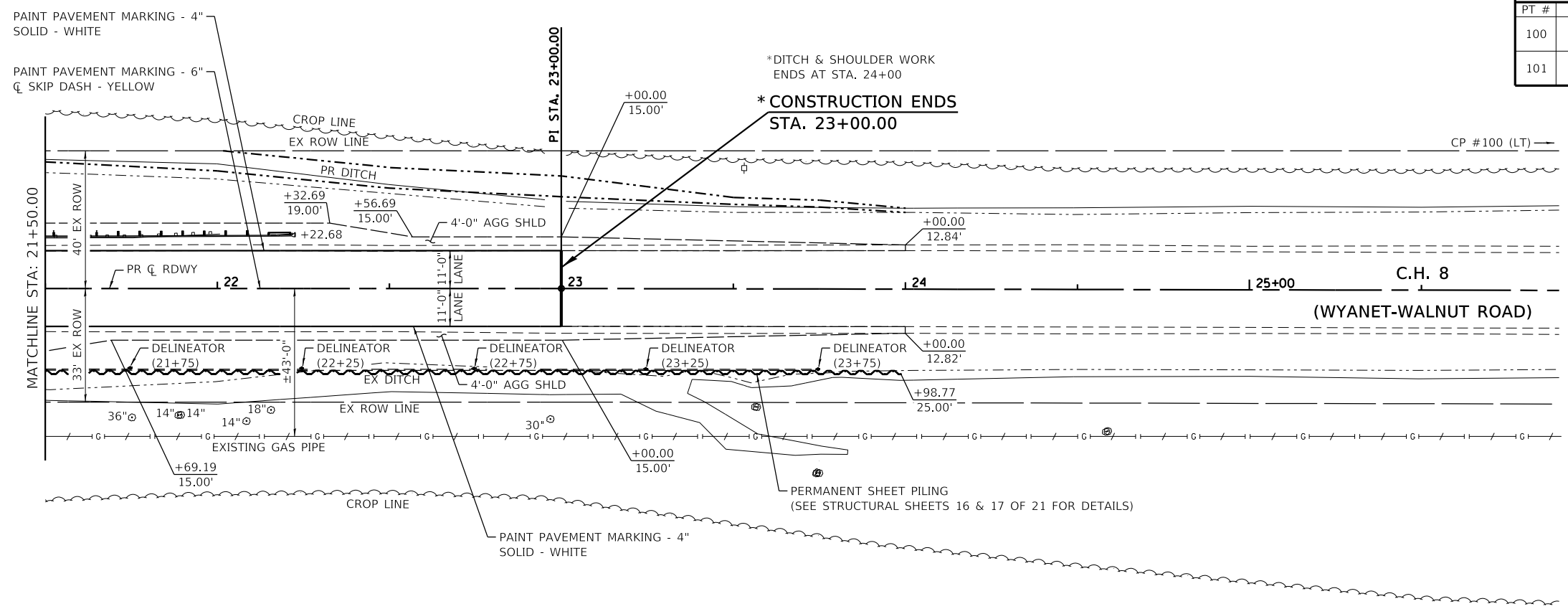
**BUREAU COUNTY
 C.H. 8 (S. WYANET-WALNUT ROAD)
 OVER MAPLE GROVE CREEK
 STATION 20+00**

PLAN & PROFILE STRUCTURE NO. 006-3248		
SCALE: 1" = 20'-0"	SHEET NO. 1 OF 2 SHEETS	STA. 15+50.00 TO STA. 21+50.00

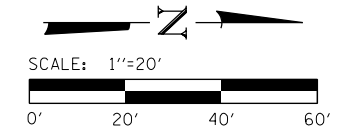
CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	11
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

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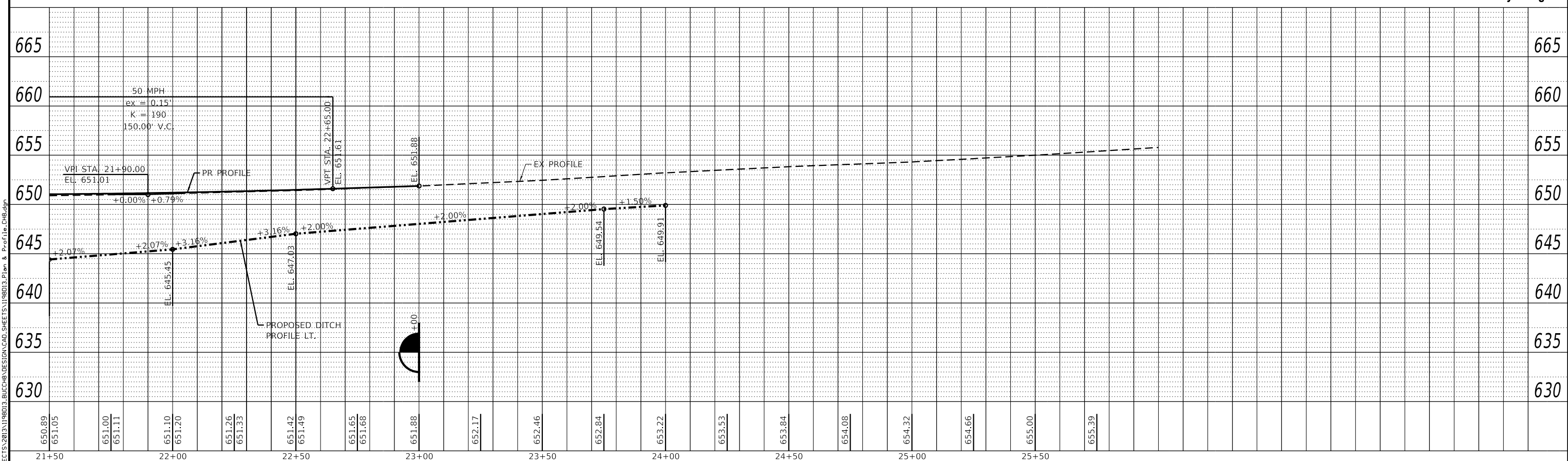
C.H. 8 (WYANET-WALNUT ROAD) - HORIZONTAL CONTROL POINTS					
PT #	LOCATION	N	E	EL.	DESCRIPTION
100	818' NORTH FROM CENTER OF THE BRIDGE (LT)	1725086.856	2455273.523	660.638	5/8 REBAR
101	626' SOUTH FROM CENTER OF THE BRIDGE (RT)	1723642.668	2455371.660	654.380	5/8 REBAR



BENCH MARK #400: R.R. SPIKE IN 2ND P.P. SOUTH OF 1745N & 1400E
EL. 656.71



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

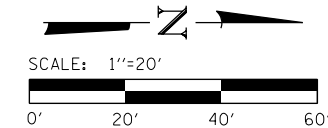
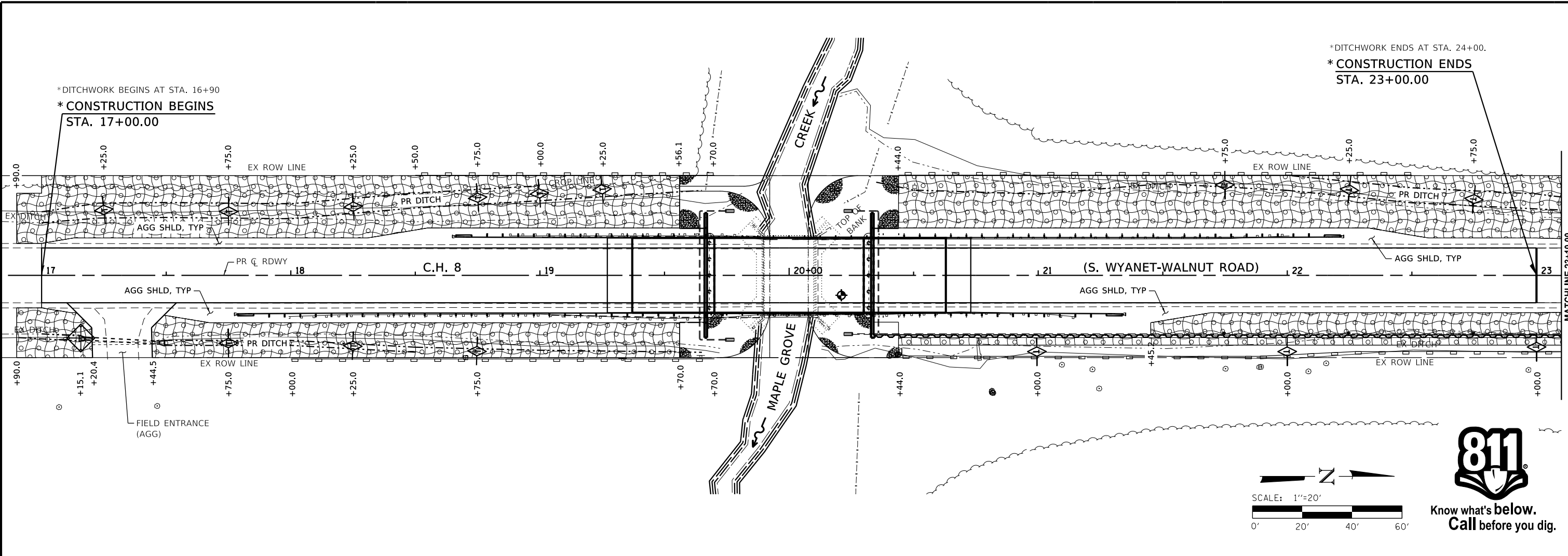
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CHECKED - GFS	REVISIONS -
DRAWN - GBG	REVISIONS -
CHECKED - BKC	REVISIONS -

**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

PLAN & PROFILE STRUCTURE NO. 006-3248		
SCALE: 1" = 20'-0"	SHEET NO. 2 OF 2 SHEETS	STA. 21+50.00 TO STA. 25+00.00

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	12
CONTRACT# 87737			WHA# 1198D13	
ILLINOIS		FED. AID PROJECT L9CN(178)		

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EROSION CONTROL NOTES

THE SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER 1/2" OF RAIN OR MORE BY THE INDIVIDUAL ON SITE IN CHARGE OF SOIL EROSION AND SEDIMENT CONTROL DURING THE CONSTRUCTION OF THE PROJECT.

PERIMETER EROSION BARRIER SHALL COMPLY WITH SECTION 280 OF THE STANDARD SPECIFICATIONS AND SHALL BE PLACED AS SHOWN ON THE EROSION CONTROL PLAN AND IN ACCORDANCE WITH STATIONS SHOWN ON THE SCHEDULE OF QUANTITIES SHEET OR AS DIRECTED BY THE ENGINEER.

SILT FENCE SHALL BE INSTALLED FOLLOWING THE COMPLETION AND STABILIZATION OF ALL AREAS ADJACENT TO THE ON-SITE DRAINAGES. THE SILT FENCE WILL REMAIN IN PLACE UNTIL THE CONTRIBUTING AREA IS STABILIZED.

FOR SEEDING, CLASS 3 (SPECIAL) SEE SPECIAL PROVISIONS.

EROSION CONTROL BLANKET SHALL BE PLACED IN DITCHES AND TO ALL DISTURBED AREAS AS SHOWN ON THIS EROSION CONTROL PLAN SHEET AND IN ACCORDANCE WITH SECTION 251 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE USE OF GREEN DYE IN THE EROSION CONTROL BLANKET IS NOT ACCEPTABLE.

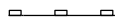

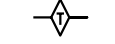

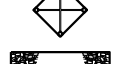

TEMPORARY DITCH CHECKS SHALL COMPLY WITH SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD 280001-07.

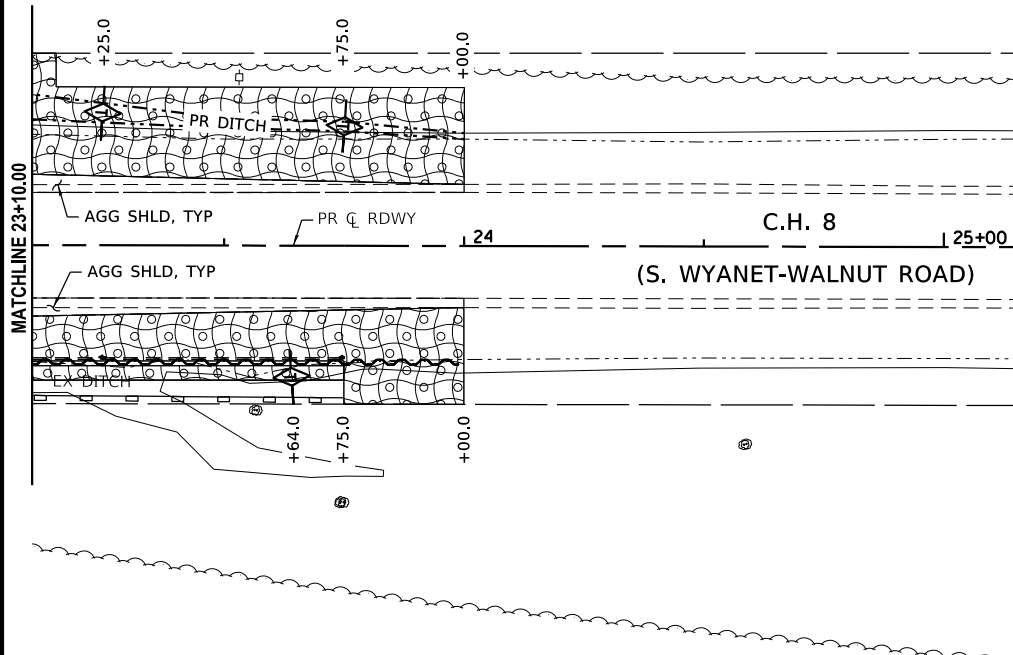
TEMPORARY DITCH CHECKS SHALL BE PLACED AT STATIONS CALLED OUT IN THE SCHEDULE OF QUANTITIES OR AS DIRECTED BY THE ENGINEER.

STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

ALL ADJACENT ENTRANCES MUST BE KEPT CLEAR OF DEBRIS. INSPECTED DAILY AND CLEANED WHEN NECESSARY.

LEGEND

-  PERIMETER EROSION BARRIER
-  SEEDING, CLASS 3 (SPECIAL)
-  TEMPORARY DITCH CHECKS
-  EROSION CONTROL BLANKET
-  INLET AND PIPE PROTECTION
-  STONE RIPRAP, CLASS A7 (SPECIAL)



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DRAWN - GBG	REVISED -
CHECKED - BKC	REVISED -

BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

EROSION CONTROL PLAN

SHEET NO. 1 OF 2 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	13
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

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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 C.H. 8 (S. WYANET-WALNUT RD) OVER MAPLE GROVE CREEK & 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. EARTH SHOULDERS AND RELATED APPURTENANCES.
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 1.00 ACRES OF WHICH 0.98 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:

MAPLE GROVE CREEK

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 ACCEPTANCE BY IDOT'S FINAL INSPECTION. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.

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 -	GBG	REVISED -	
CHECKED -	GFS	REVISED -	
DRAWN -	GBG	REVISED -	
CHECKED -	BKC	REVISED -	

**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

EROSION CONTROL PLAN

SHEET NO. 2 OF 2 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	14
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

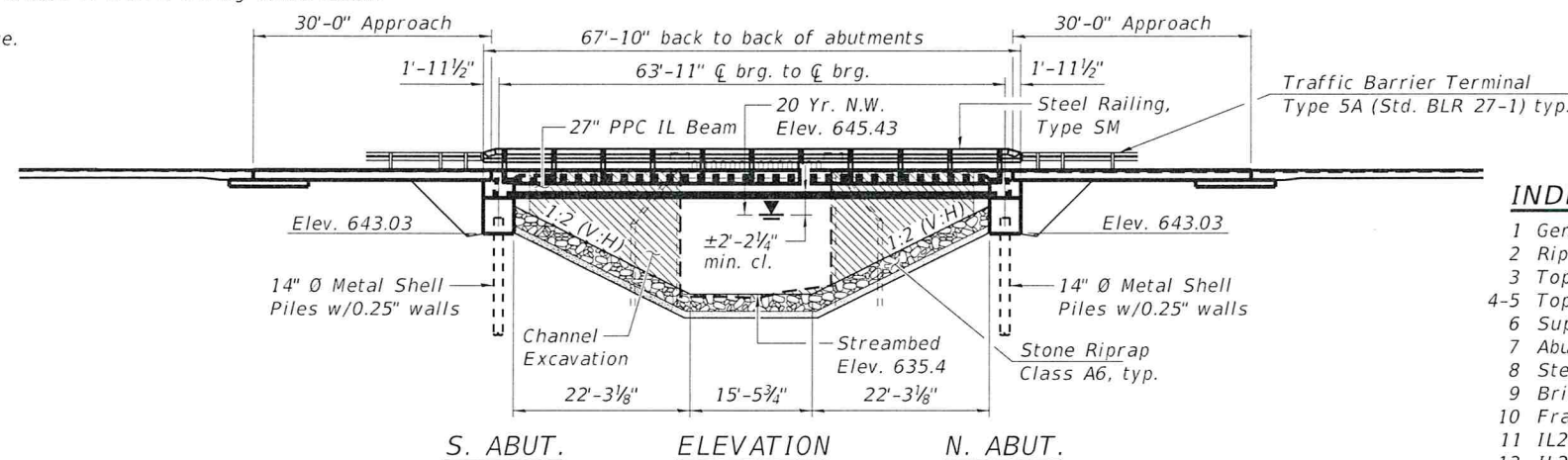
Existing Structure: S.N. 006-3240 built in 1925, the structure consists of single span (1 at 21'-10") concrete slab bridge on closed reinforced concrete abutments. Structure to be removed and replaced. Road will be closed to traffic during construction.

Bench Mark: #401 Chiseled "X" in S.W. Corner of wingwall, Elev. 649.99

BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUB.	SUPER.	TOTAL
Channel Excavation	Cu Yd	707	—	707
Removal Of Existing Structures	Each	—	1	1
Concrete Structures	Cu Yd	69.3	—	69.3
Concrete Superstructure	Cu Yd	—	72.8	72.8
Bridge Deck Grooving	Sq Yd	—	392	392
Protective Coat	Sq Yd	—	419	419
Concrete Superstructure (Approach Slab)	Cu Yd	—	83.3	83.3
Furnishing and Erecting Precast Prestressed Concrete Beams, IL27N	Foot	—	326	326
Reinforcement Bars, Epoxy Coated	Pound	11,370	45,940	57,310
Steel Railing, Type SM	Foot	—	136	136
Furnishing Metal Shell Piles 14" X 0.250"	Foot	112	—	112
Driving Piles	Foot	112	—	112
Test Pile Metal Shells	Each	2	—	2
Pile Shoes	Each	10	—	10
Name Plates	Each	1	—	1
Permanent Sheet Piling	Sq Ft	5,300	—	5,300
Geocomposite Wall Drain	Sq Yd	67	—	67
Pipe Underdrains For Structures 4"	Foot	497	—	497
Porous Granular Embankment, Special	Ton	763	—	763
Stone Riprap, Class A6 (Special)	Ton	1,166	—	1,166

No salvage.



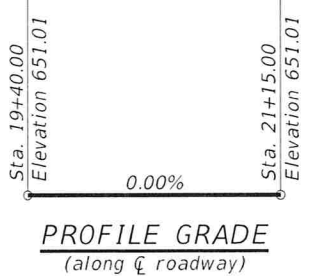
INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Riprap Layout
- 3 Top of Slab Elevations
- 4-5 Top of Approach Slab Elevations
- 6 Superstructure
- 7 Abutment Diaphragm Details
- 8 Steel Railing, Type SM
- 9 Bridge Approach Slab Details
- 10 Framing Details
- 11 IL27 PPC Deck Beam
- 12 IL27 PPC Deck Beam Details
- 13 South Abutment Details
- 14 North Abutment Details
- 15 Metal Shell Pile Details
- 16 Soil Retention System Plan and Profile
- 17 Soil Retention System Details
- 18-21 Soil Boring Logs

* 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.



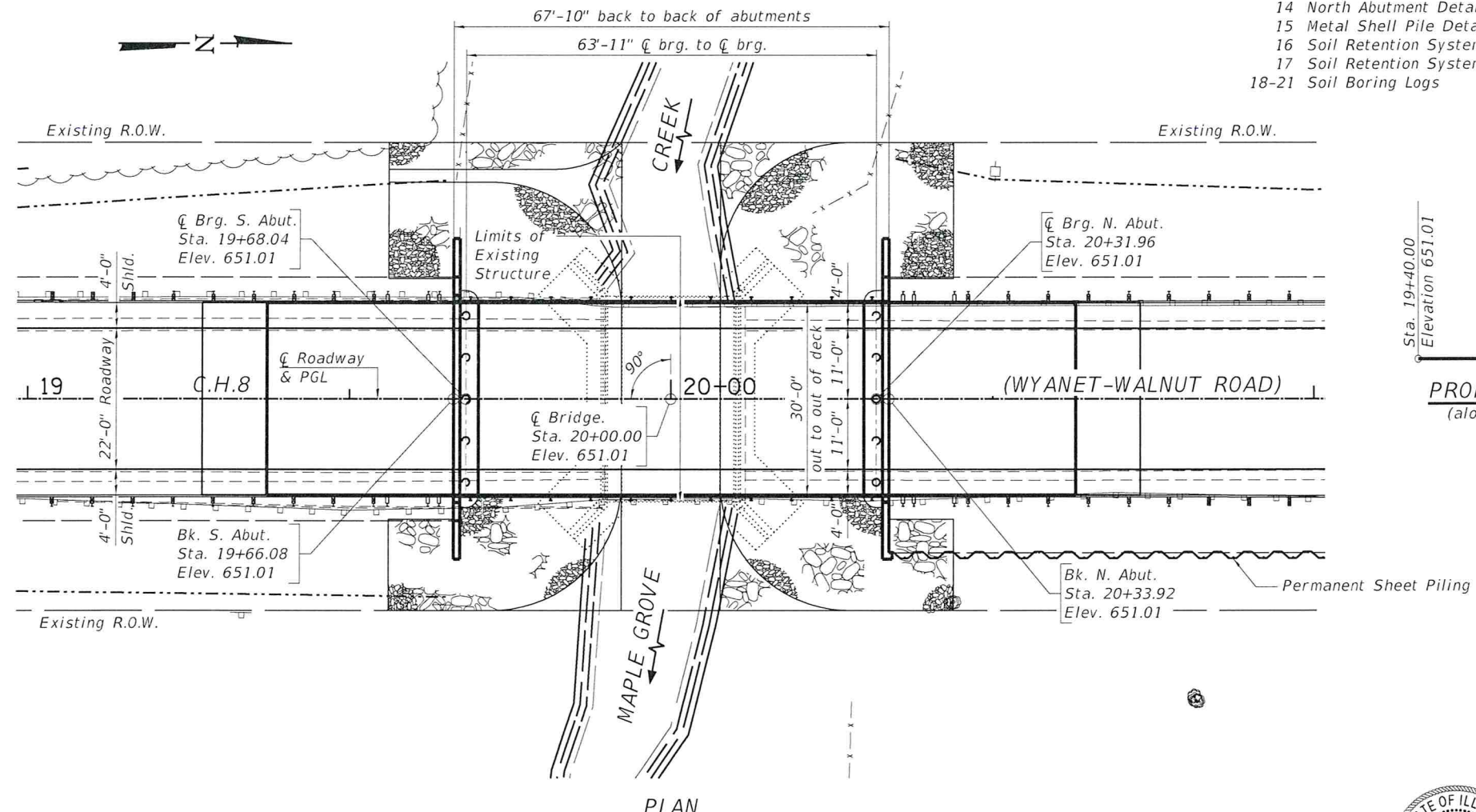
WATERWAY INFORMATION

Drainage Area = 7.25 Sq. Mi. Prop. Low Grade Elev. 651.01 @ Sta. 20+00

Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	20	1,700	188	294	645.43	1.07	0.13	646.50	645.56
Base	100	2,730	212	355	646.55	4.47	0.50	651.02	647.05

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)		
	S. Abut.	N. Abut.	Item 113
Q100	643.03	643.03	8
Q200	643.03	643.03	
Design	643.03	643.03	
Check	643.03	643.03	



LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

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

SEISMIC DATA
Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.095g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.153g
Soil Site Class = D

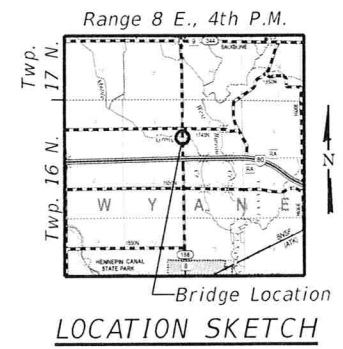
DESIGN STRESSES
FIELD UNITS
f'c = 4,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinforcement)
PRECAST PRESTRESSED UNITS
f'c = 8,500 psi
f'ci = 6,500 psi
fpu = 270,000 psi (0.6" Ø low lax. strands)
fpbt = 202,300 psi (0.6" Ø low lax. strands)

MAPLE GROVE CREEK
BUILT 2020 BY
BUREAU COUNTY
SECTION 09-00217-00-BR
C.H. 8 STATION 20+00
STR. NO. 006-3248 LOADING HL-93

NAME PLATE LETTERING
See Std. 515001-04

PROFESSIONAL ENGINEER
BUREAU COUNTY
DIXON, ILL.
DATE: 8/25/2020
EXPIRES 11/30/2020

"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.'"



GENERAL PLAN AND ELEVATION
CH 8 (WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
SEC. 09-00217-00-BR
BUREAU COUNTY
STATION 20+00.00
STRUCTURE NO. 006-3248



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

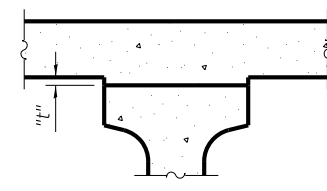
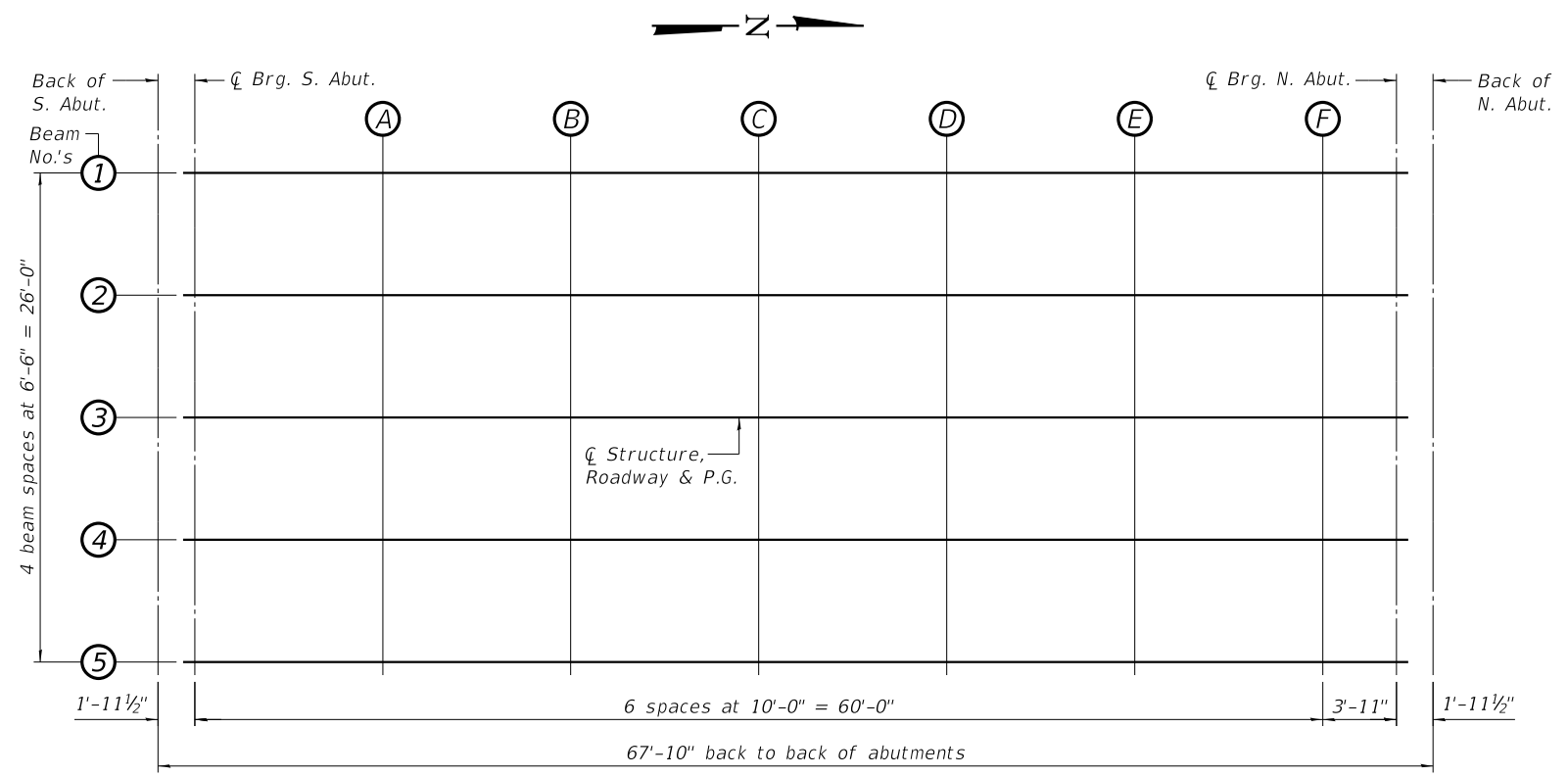
BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20 + 00

STRUCTURAL SHEET NO. 1 OF 21 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	15

CONTRACT# B7737 WHA# 1198D13
ILLINOIS FED. AID PROJECT L9CN(178)

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To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown below, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

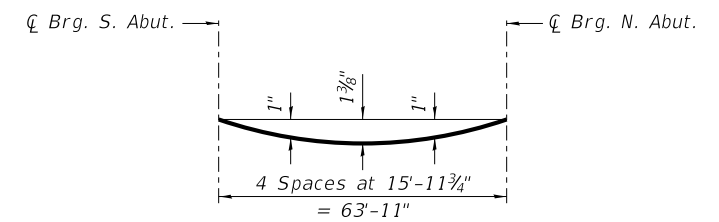
FILLET HEIGHTS

BEAM 1

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	19+66.08	13.00'	650.75	650.75
☉ Brg. S. Abut.	19+68.04	13.00'	650.75	650.75
A	19+78.04	13.00'	650.75	650.80
B	19+88.04	13.00'	650.75	650.83
C	19+98.04	13.00'	650.75	650.85
D	20+08.04	13.00'	650.75	650.84
E	20+18.04	13.00'	650.75	650.81
F	20+28.04	13.00'	650.75	650.77
☉ Brg. N. Abut.	20+31.96	13.00'	650.75	650.75
Bk. of N. Abut.	20+33.92	13.00'	650.75	650.75

BEAM 2

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	19+66.08	6.50	650.88	650.88
☉ Brg. S. Abut.	19+68.04	6.50	650.88	650.88
A	19+78.04	6.50	650.88	650.94
B	19+88.04	6.50	650.88	650.98
C	19+98.04	6.50	650.88	651.00
D	20+08.04	6.50	650.88	650.99
E	20+18.04	6.50	650.88	650.95
F	20+28.04	6.50	650.88	650.90
☉ Brg. N. Abut.	20+31.96	6.50	650.88	650.88
Bk. of N. Abut.	20+33.92	6.50	650.88	650.88



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

NOTE:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

CENTERLINE OF ROADWAY & P.G. & BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	19+66.08	0.00	651.01	651.01
☉ Brg. S. Abut.	19+68.04	0.00	651.01	651.01
A	19+78.04	0.00	651.01	651.07
B	19+88.04	0.00	651.01	651.11
C	19+98.04	0.00	651.01	651.13
D	20+08.04	0.00	651.01	651.12
E	20+18.04	0.00	651.01	651.08
F	20+28.04	0.00	651.01	651.03
☉ Brg. N. Abut.	20+31.96	0.00	651.01	651.01
Bk. of N. Abut.	20+33.92	0.00	651.01	651.01

BEAM 4

Location	Station	Offset Rt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	19+66.08	6.50	650.88	650.88
☉ Brg. S. Abut.	19+68.04	6.50	650.88	650.88
A	19+78.04	6.50	650.88	650.94
B	19+88.04	6.50	650.88	650.98
C	19+98.04	6.50	650.88	651.00
D	20+08.04	6.50	650.88	650.99
E	20+18.04	6.50	650.88	650.95
F	20+28.04	6.50	650.88	650.90
☉ Brg. N. Abut.	20+31.96	6.50	650.88	650.88
Bk. of N. Abut.	20+33.92	6.50	650.88	650.88

BEAM 5

Location	Station	Offset Rt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of S. Abut.	19+66.08	13.00'	650.75	650.75
☉ Brg. S. Abut.	19+68.04	13.00'	650.75	650.75
A	19+78.04	13.00'	650.75	650.80
B	19+88.04	13.00'	650.75	650.83
C	19+98.04	13.00'	650.75	650.85
D	20+08.04	13.00'	650.75	650.84
E	20+18.04	13.00'	650.75	650.81
F	20+28.04	13.00'	650.75	650.77
☉ Brg. N. Abut.	20+31.96	13.00'	650.75	650.75
Bk. of N. Abut.	20+33.92	13.00'	650.75	650.75



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

**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

**TOP OF SLAB ELEVATIONS
STRUCTURE NO. 006-3248**

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	17
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

STRUCTURAL SHEET NO. 3 OF 21 SHEETS

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LEFT EDGE OF SHOULDER

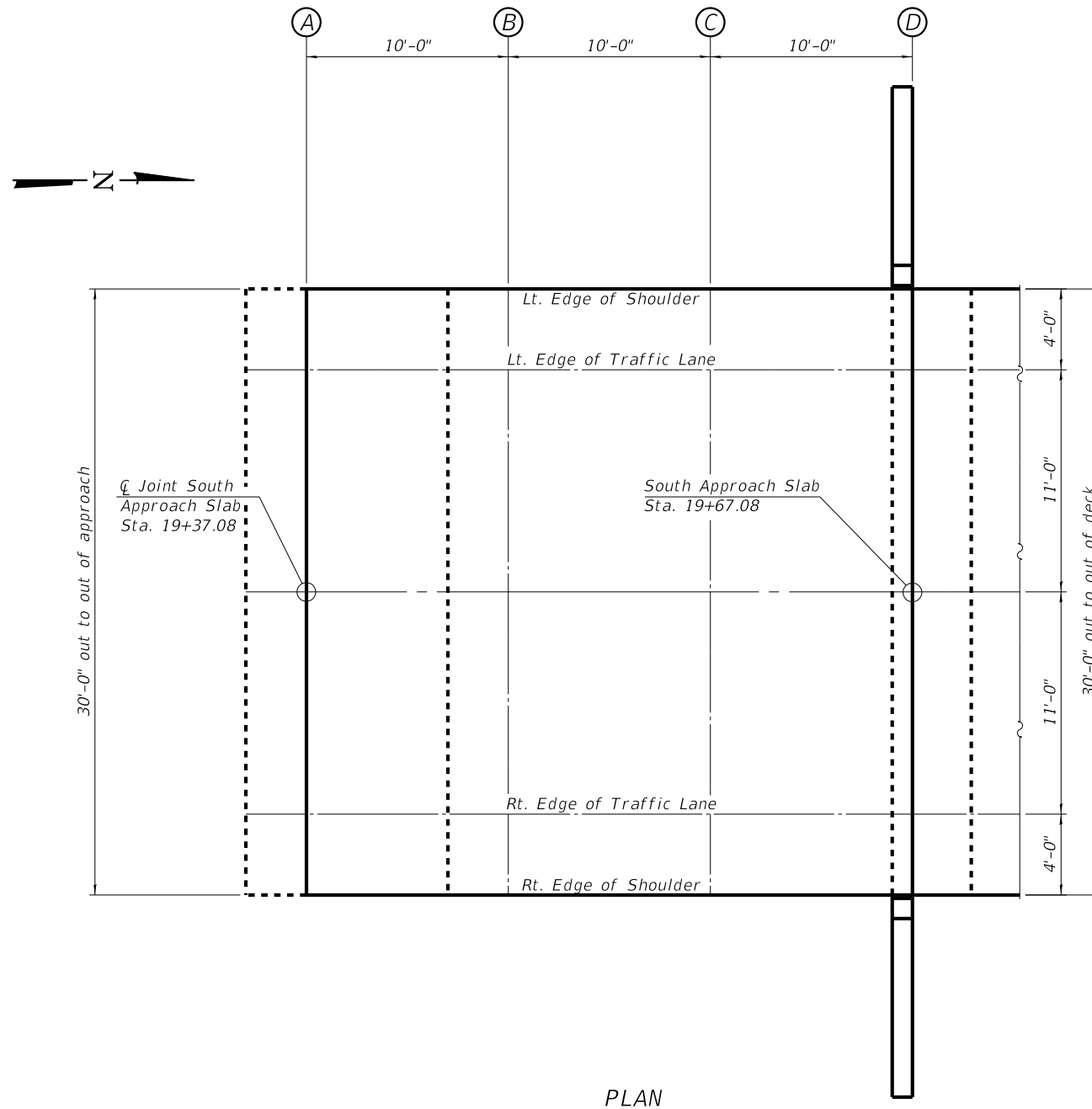
Location	Station	Offset	Theoretical Grade Elevations
A	19+37.08	15.00'	650.71
B	19+47.08	15.00'	650.71
C	19+57.08	15.00'	650.71
D	19+67.08	15.00'	650.71

LEFT EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
A	19+37.08	11.00'	650.79
B	19+47.08	11.00'	650.79
C	19+57.08	11.00'	650.79
D	19+67.08	11.00'	650.79

CENTERLINE & P.G.

Location	Station	Offset	Theoretical Grade Elevations
A	19+37.08	0.00'	651.01
B	19+47.08	0.00'	651.01
C	19+57.08	0.00'	651.01
D	19+67.08	0.00'	651.01



PLAN

RIGHT EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
A	19+37.08	11.00'	650.79
B	19+47.08	11.00'	650.79
C	19+57.08	11.00'	650.79
D	19+67.08	11.00'	650.79

RIGHT EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
A	19+37.08	15.00'	650.71
B	19+47.08	15.00'	650.71
C	19+57.08	15.00'	650.71
D	19+67.08	15.00'	650.71



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

BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 006-3248

STRUCTURAL SHEET NO. 4 OF 21 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	18
CONTRACT# 87737			WHA# 1198D13	
ILLINOIS		FED. AID PROJECT L9CN(178)		

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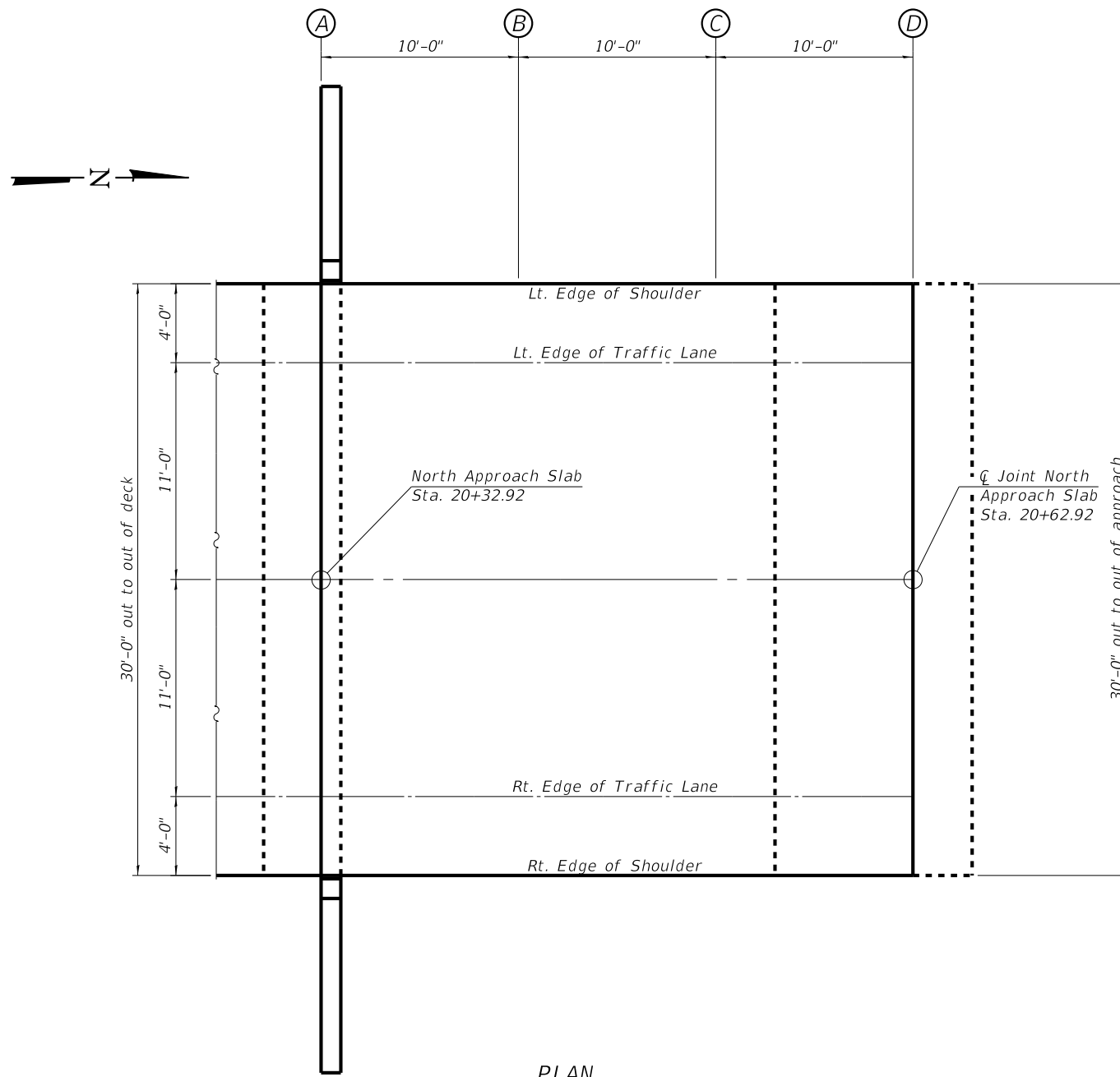
Location	Station	Offset	Theoretical Grade Elevations
A	20+32.92	15.00'	650.71
B	20+42.92	15.00'	650.71
C	20+52.92	15.00'	650.71
D	20+62.92	15.00'	650.71

LEFT EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
A	20+32.92	11.00'	650.79
B	20+42.92	11.00'	650.79
C	20+52.92	11.00'	650.79
D	20+62.92	11.00'	650.79

CENTERLINE & P.G.

Location	Station	Offset	Theoretical Grade Elevations
A	20+32.92	0.00'	651.01
B	20+42.92	0.00'	651.01
C	20+52.92	0.00'	651.01
D	20+62.92	0.00'	651.01



PLAN

RIGHT EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
A	20+32.92	11.00'	650.79
B	20+42.92	11.00'	650.79
C	20+52.92	11.00'	650.79
D	20+62.92	11.00'	650.79

RIGHT EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
A	20+32.92	15.00'	650.71
B	20+42.92	15.00'	650.71
C	20+52.92	15.00'	650.71
D	20+62.92	15.00'	650.71



DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
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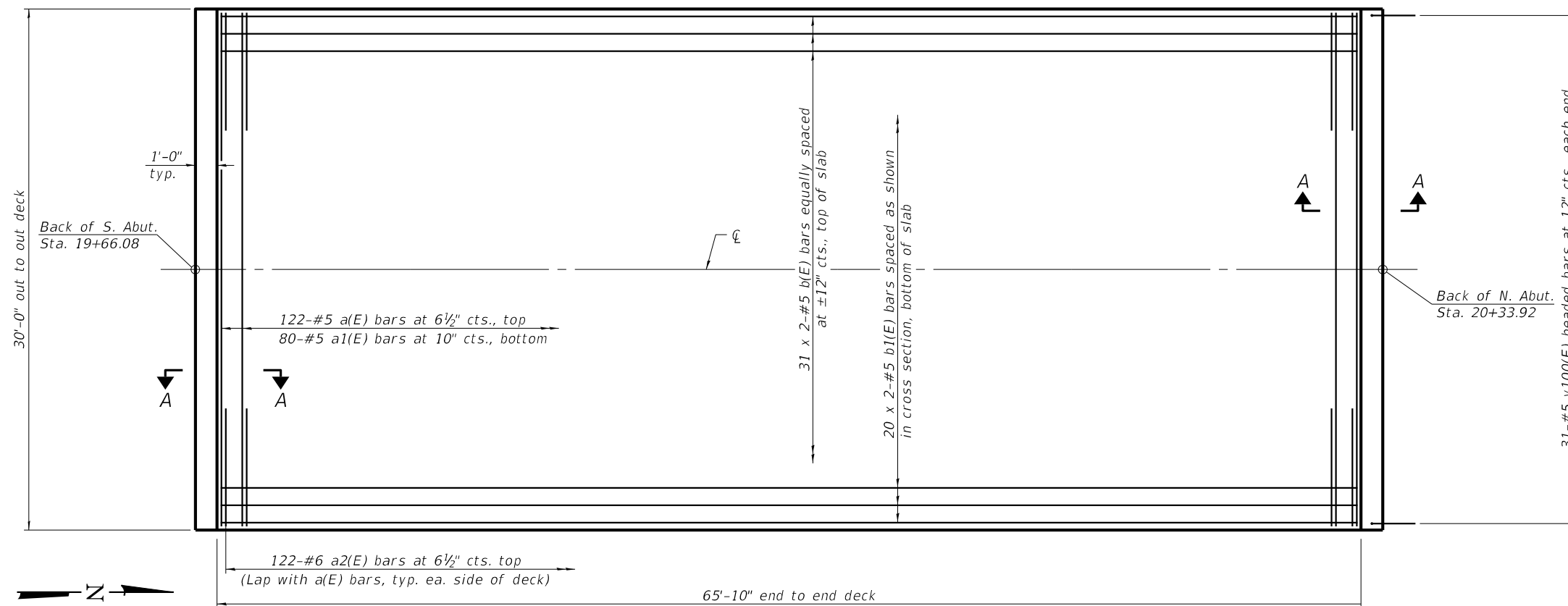
BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 006-3248

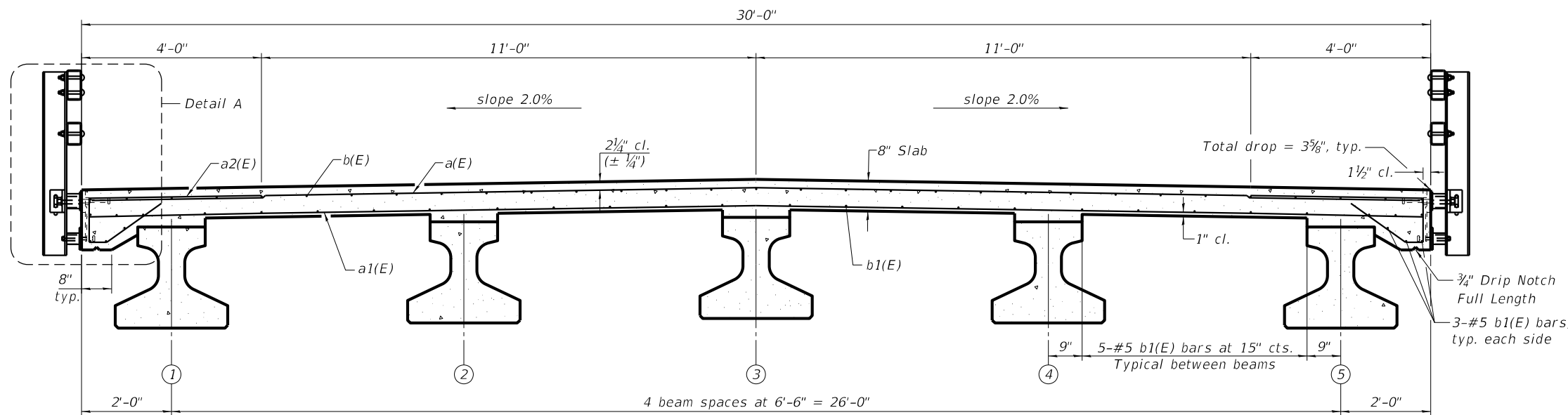
STRUCTURAL SHEET NO. 5 OF 21 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT# 87737			WHA# 1198D13	
ILLINOIS		FED. AID PROJECT L9CN(178)		

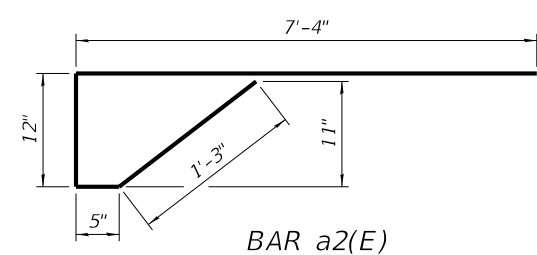
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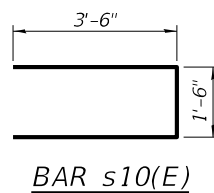
PLAN



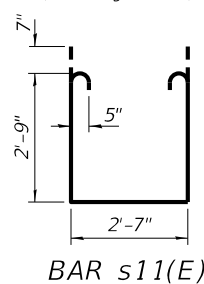
CROSS SECTION
(Looking North)



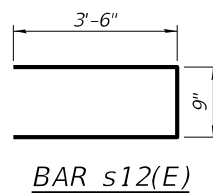
BAR a2(E)



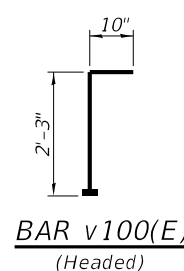
BAR s10(E)



BAR s11(E)

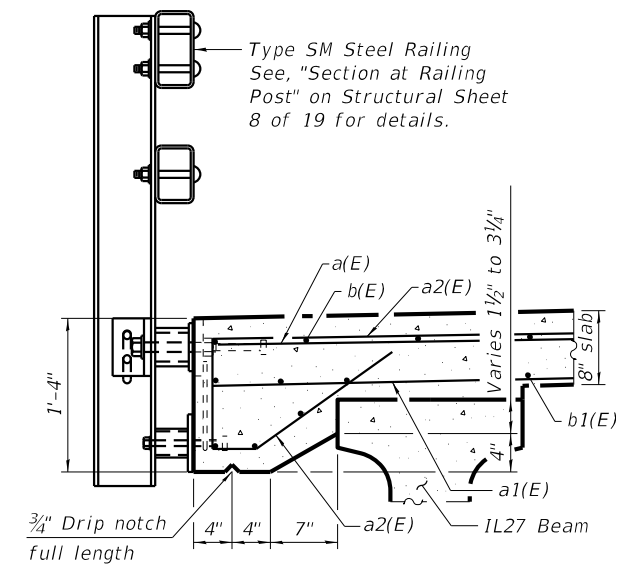


BAR s12(E)



BAR v100(E)
(Headed)

MIN. BAR LAPS	
BAR	LAP
#4	2'-5"
#5	3'-6"



DETAIL A

**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	122	#5	29'-9"	—
a1(E)	80	#5	29'-9"	—
a2(E)	244	#6	10'-0"	✓
b(E)	62	#5	34'-6"	—
b1(E)	52	#5	34'-6"	—
m10(E)	8	#6	29'-8"	—
m11(E)	16	#6	5'-6"	—
m12(E)	8	#6	1'-3"	—
m13(E)	8	#6	3'-8"	—
m15(E)	20	#5	4'-0"	—
s10(E)	44	#5	8'-6"	U
s11(E)	44	#5	9'-3"	U
s12(E)	40	#5	7'-9"	U
v100(E)	62	#5	3'-1"	L
Concrete Superstructure			Cu. Yds.	72.8
Bridge Deck Grooving			Sq. Yd.	205
Protective Coat			Sq. Yd.	219
Reinforcement Bars, Epoxy Coated			Pound	16,010

NOTES:

- For Section A-A and Diaphragm Details, see Structural Sheet 7 of 19.
- See Structural Sheet 8 of 19 for Steel Railing Details.
- Bars indicated thus 31x2-#5 etc. indicates 31 lines of bars with 2 lengths per line.
- Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.



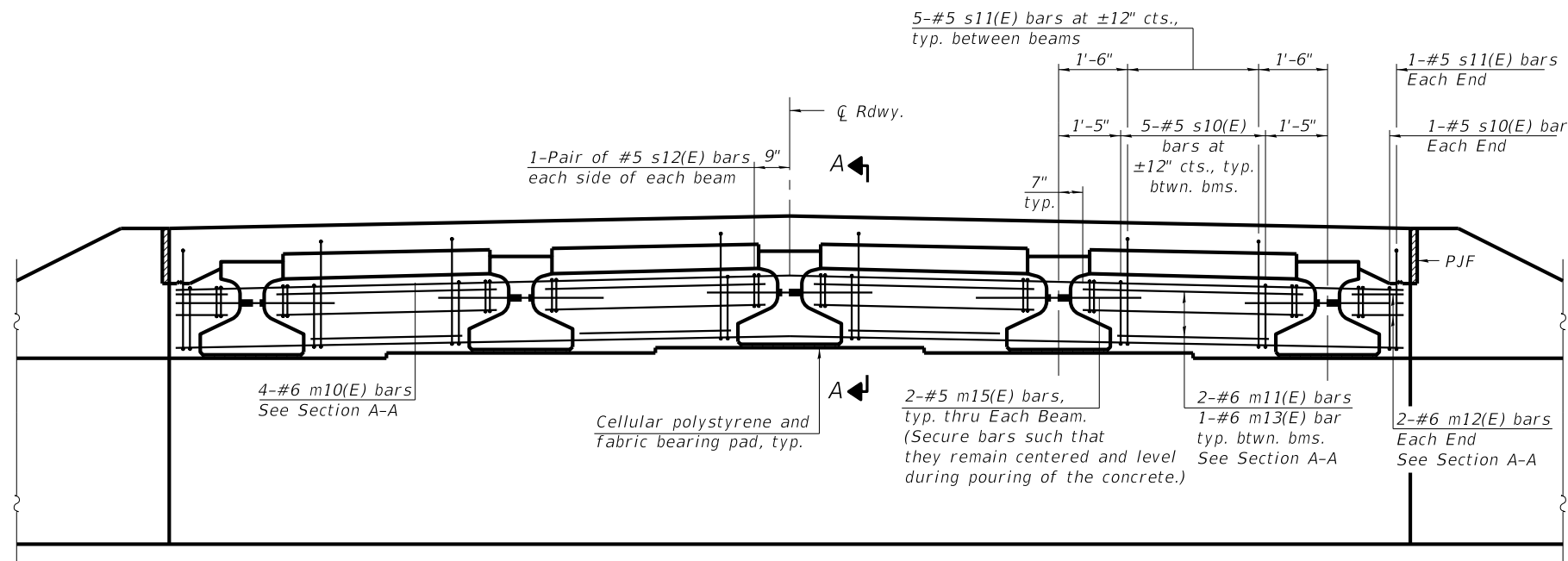
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DRAWN - FDL	REVISED - -
CHECKED - BKC	REVISED - -

**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

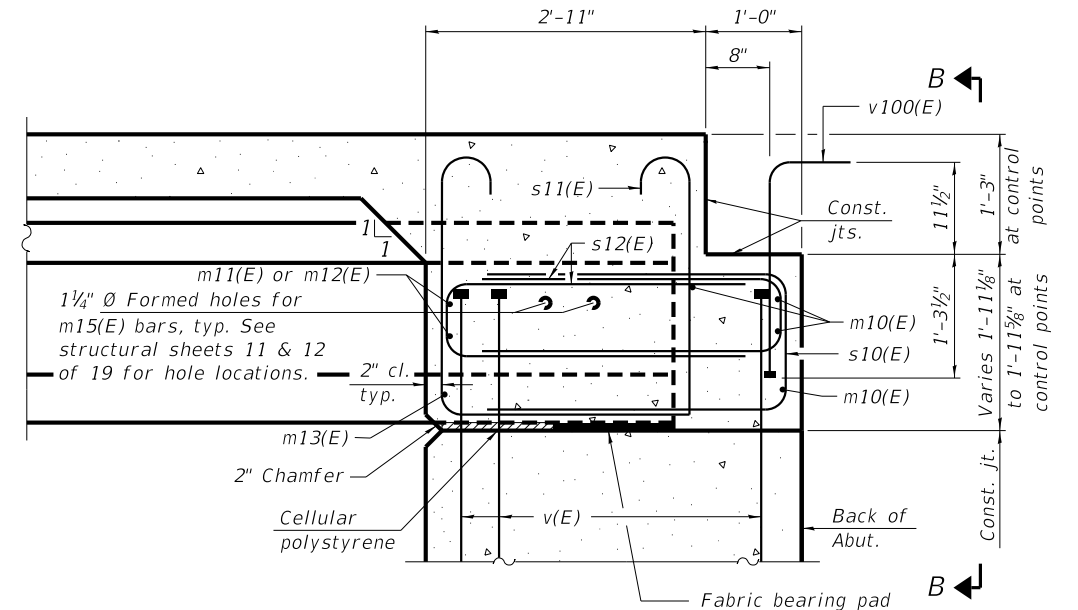
**SUPERSTRUCTURE
STRUCTURE NO. 006-3248**

STRUCTURAL SHEET NO. 6 OF 21 SHEETS

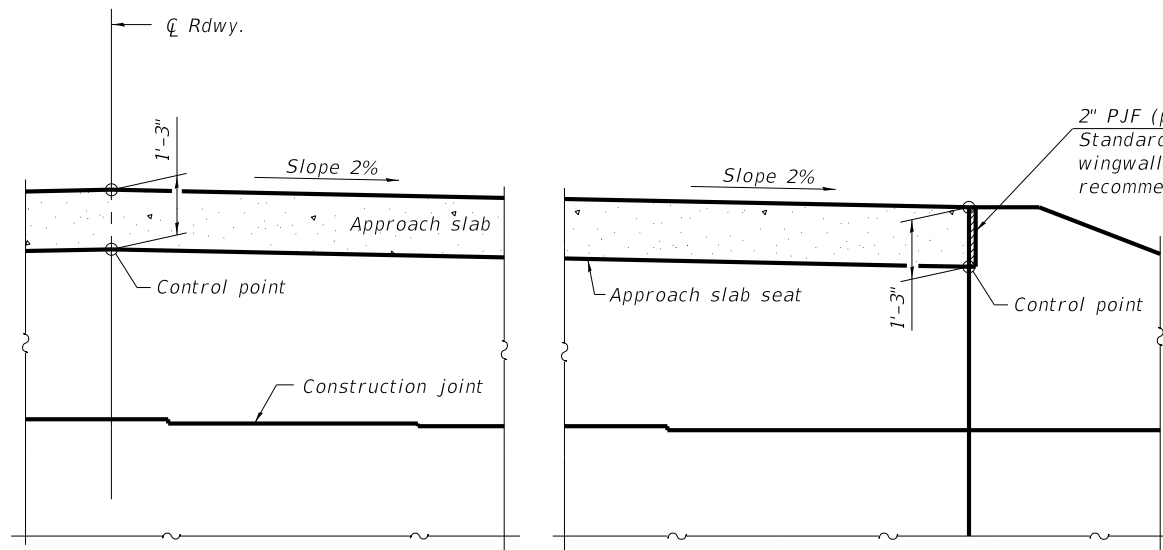
CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	20
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		



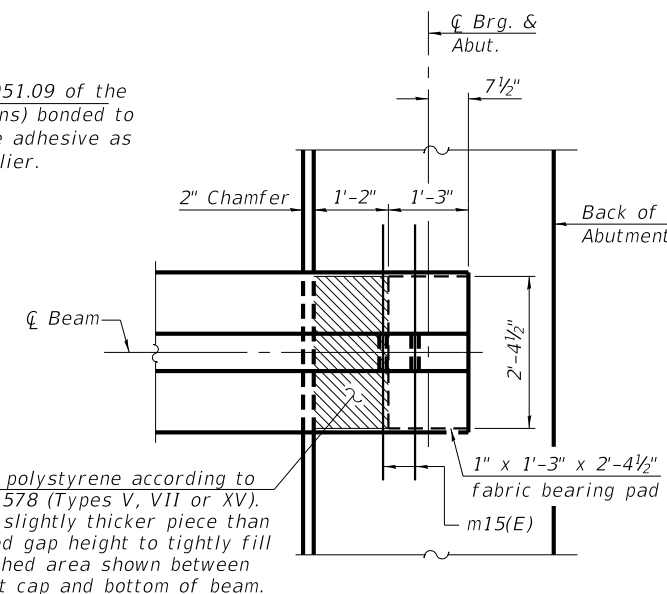
DIAPHRAGM AT ABUTMENT
(Typical North & South Abutment)



SECTION A-A



SECTION B-B



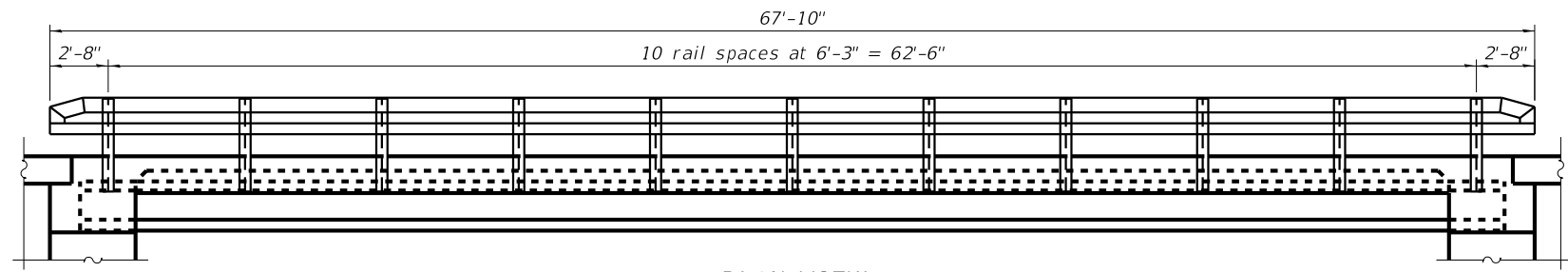
PLAN AT ABUTMENT
(Showing bottom flange of beam)

NOTES:

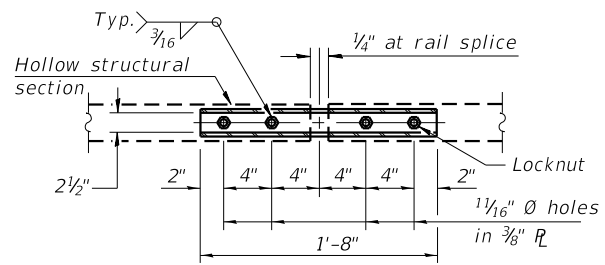
- Reinforcement bars in diaphragm are billed with superstructure on structural sheet 6 of 19.
- Concrete in diaphragm is included with Concrete Superstructure on structural sheet 6 of 19.
- For details of bars s10(E), s11(E), s12(E) and v100(E) see structural sheet 6 of 19.
- The approach slab seat shall have a constant slope determined from the control points shown.
- Cost of cellular polystyrene is included with Concrete Superstructure.
- Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

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

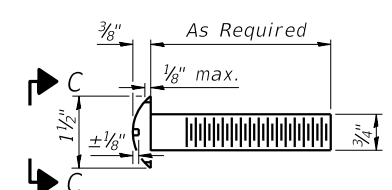
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CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		



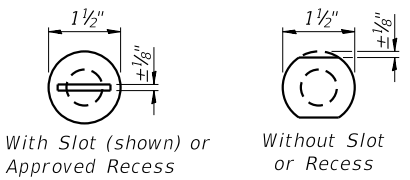
PLAN VIEW



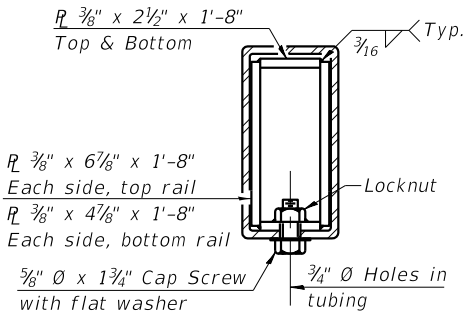
PLAN-BOTT. SPLICE R TYPICAL



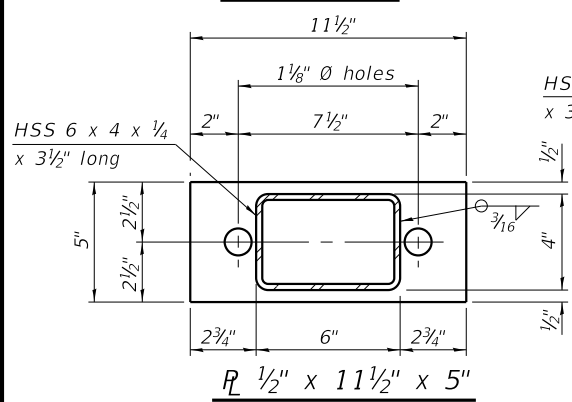
DETAIL OF 3/4" diameter round head bolt



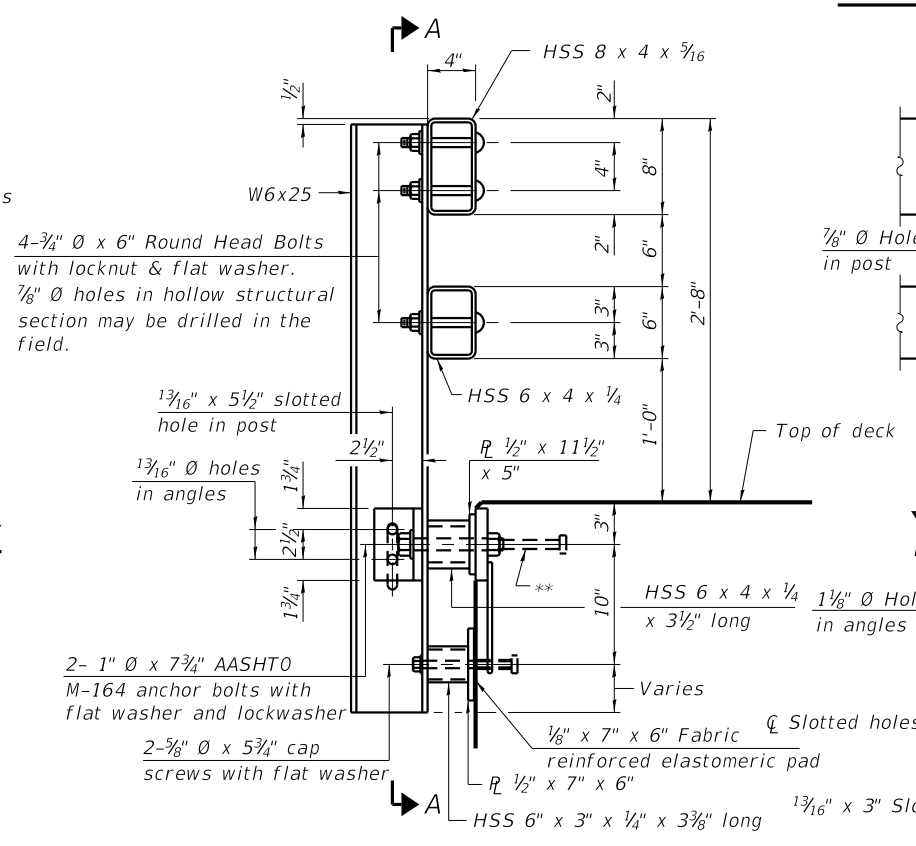
VIEW C-C



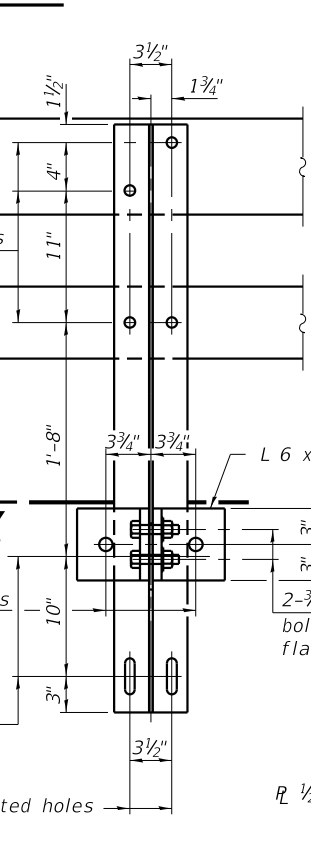
SECTION AT RAIL SPLICE



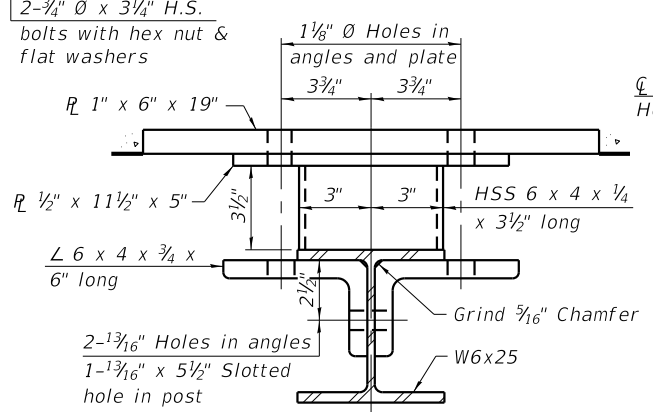
SECTION AT RAIL POST



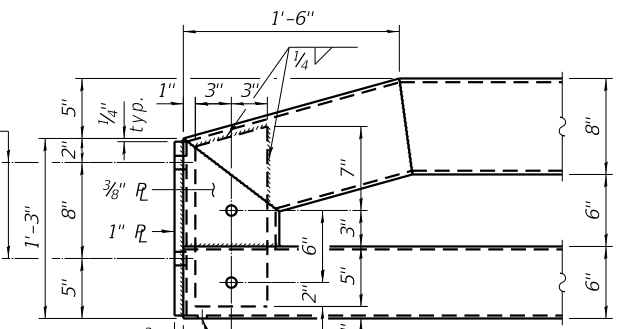
SECTION A-A



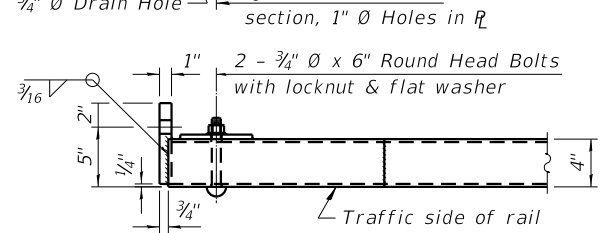
SECTION B-B



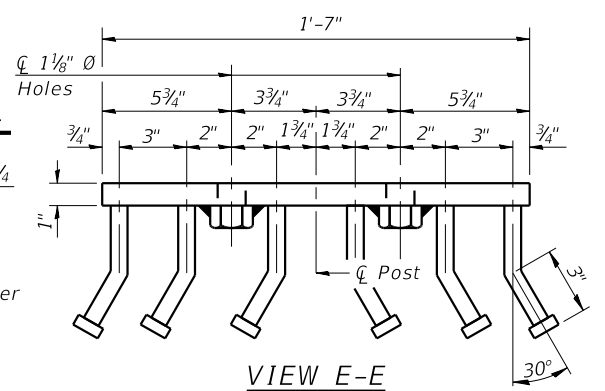
SECTION E-E



END OF RAIL DETAILS

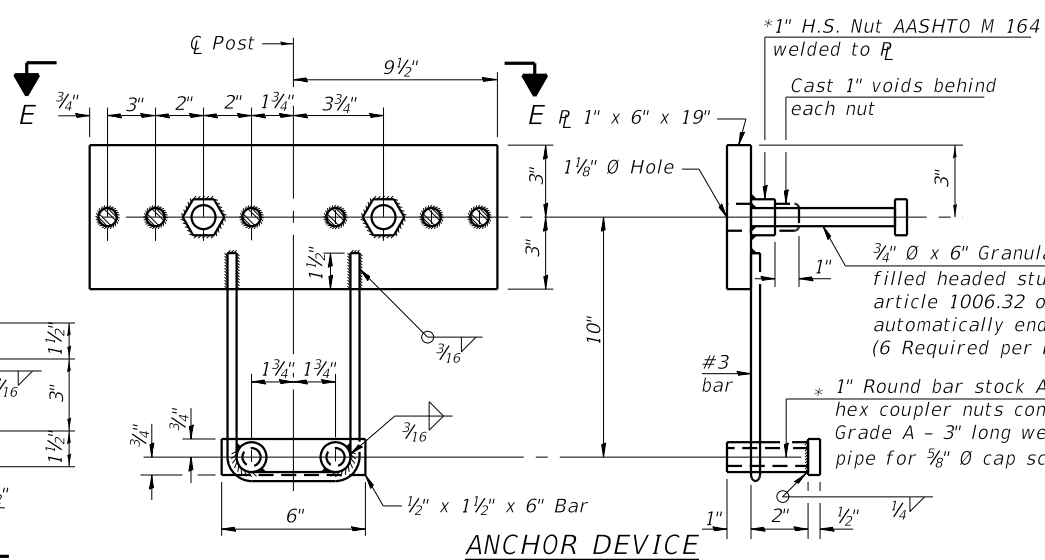


DETAIL OF 2-3/4" diameter round head bolts



BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	136



ANCHOR DEVICE

NOTES:

- All 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.
- **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. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement placement.



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

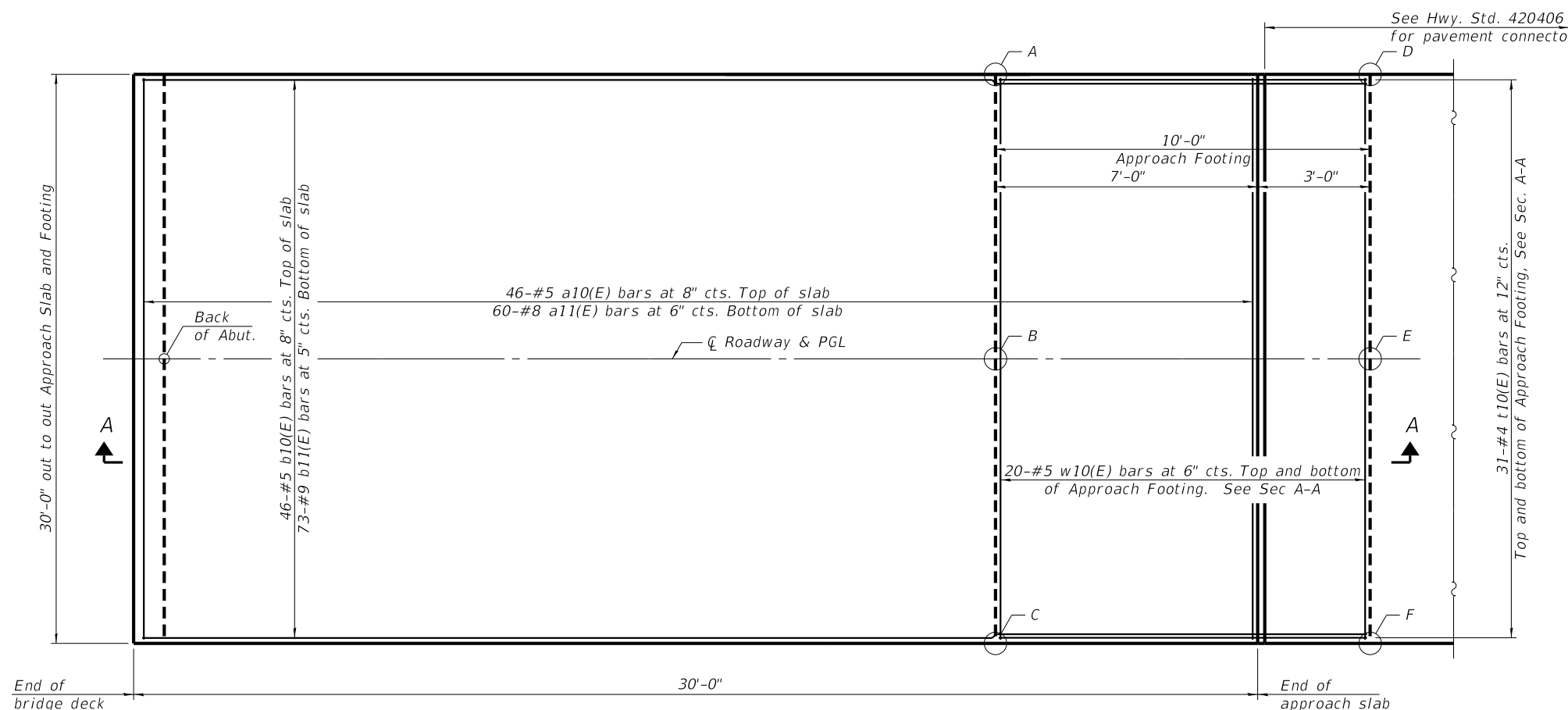
BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

STEEL RAILING, TYPE SM
STRUCTURE NO. 006-3248
 STRUCTURAL SHEET NO. 8 OF 21 SHEETS

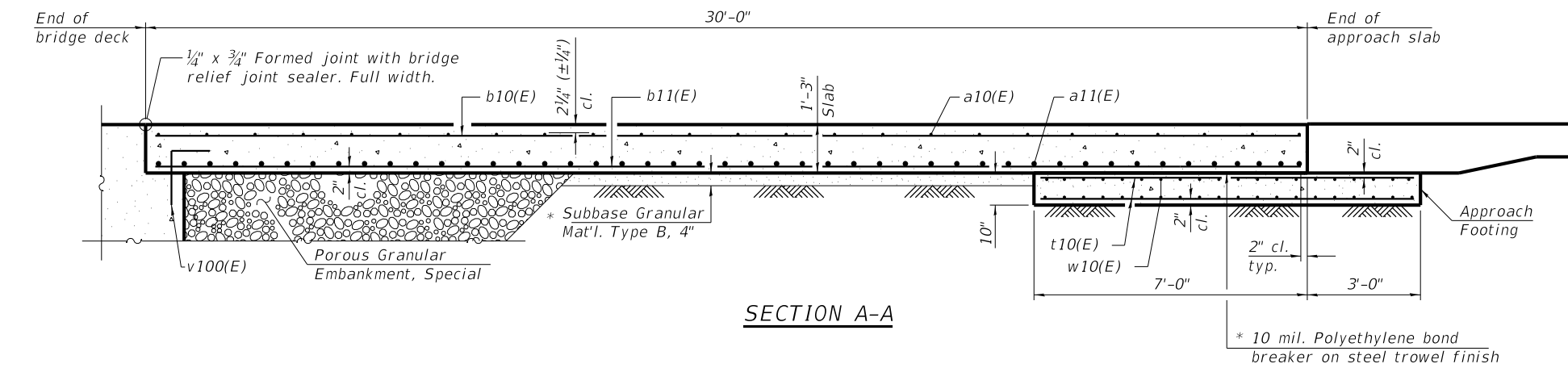
CO. HWY. 8	SECTION 09-00217-00-BR	COUNTY BUREAU	TOTAL SHEETS 43	SHEET NO. 22
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

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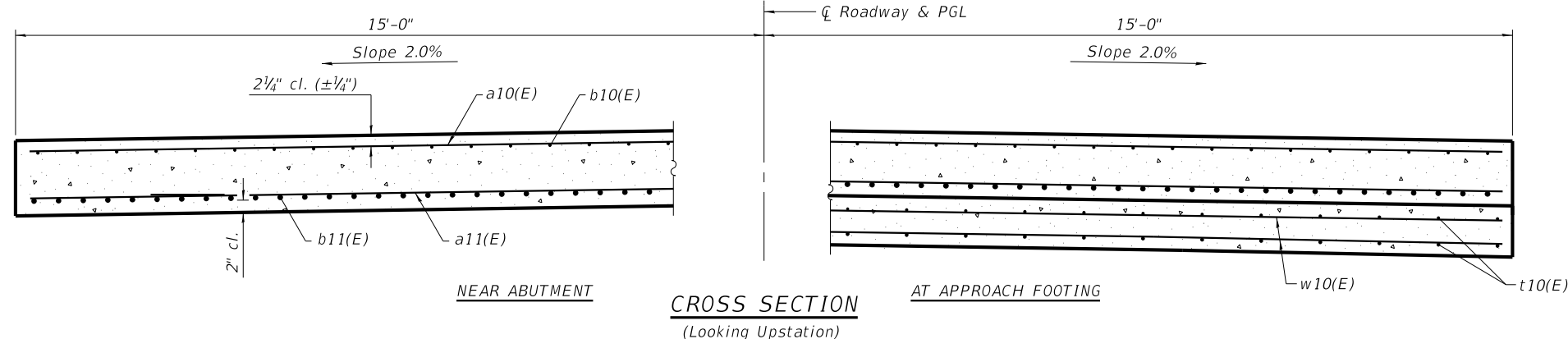
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PLAN



SECTION A-A



CROSS SECTION
(Looking Upstation)

TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

Point	North Approach		South Approach	
	Top	Bottom	Top	Bottom
A	649.46	648.63	649.46	648.63
B	649.76	648.93	649.76	648.93
C	649.46	648.63	649.46	648.63
D	649.46	648.63	649.46	648.63
E	649.76	648.93	649.76	648.93
F	649.46	648.63	649.46	648.63

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a10(E)	92	#5	29'-8"	—	
a11(E)	120	#8	29'-8"	—	
b10(E)	92	#5	29'-8"	—	
b11(E)	146	#9	29'-8"	—	
t10(E)	124	#4	9'-8"	—	
w10(E)	80	#5	29'-8"	—	
Concrete Structures				Cu. Yd.	18.4
Bridge Deck Grooving				Sq. Yd.	187
Protective Coating				Sq. Yd.	200
Concrete Superstructure (Approach Slab)				Cu. Yd.	83.3
Reinforcement Bars, Epoxy Coated				Pound	33,210

NOTES:

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

Approach slab shall be paid for as Concrete Superstructure (Approach Slab).

Approach footing concrete shall be paid for as Concrete Structures.

The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.

Cost of excavation for approach footing included with Concrete Structures.

For Porous Granular Embankment, Special and drainage treatment details, see structural sheet 2 of 19.

* Cost included with Concrete Superstructure (Approach Slab).



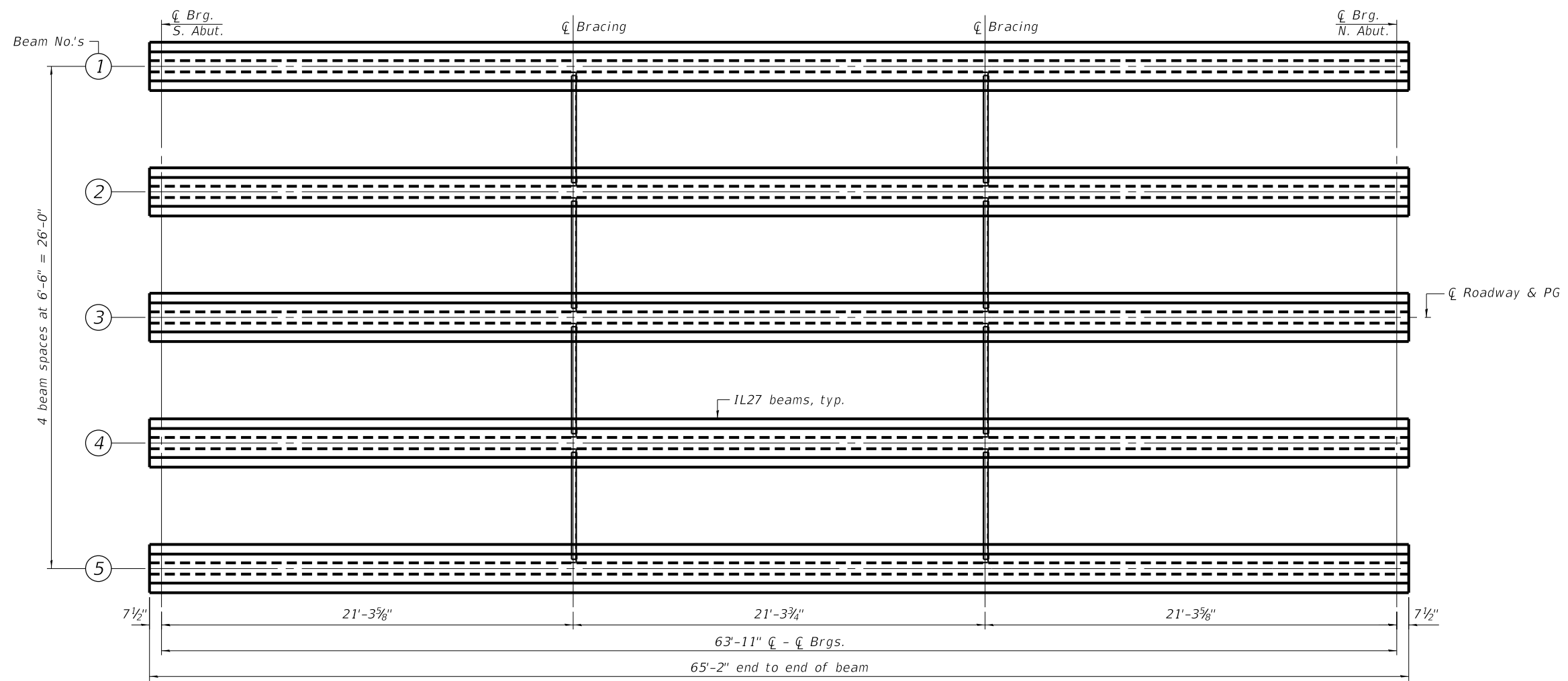
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DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

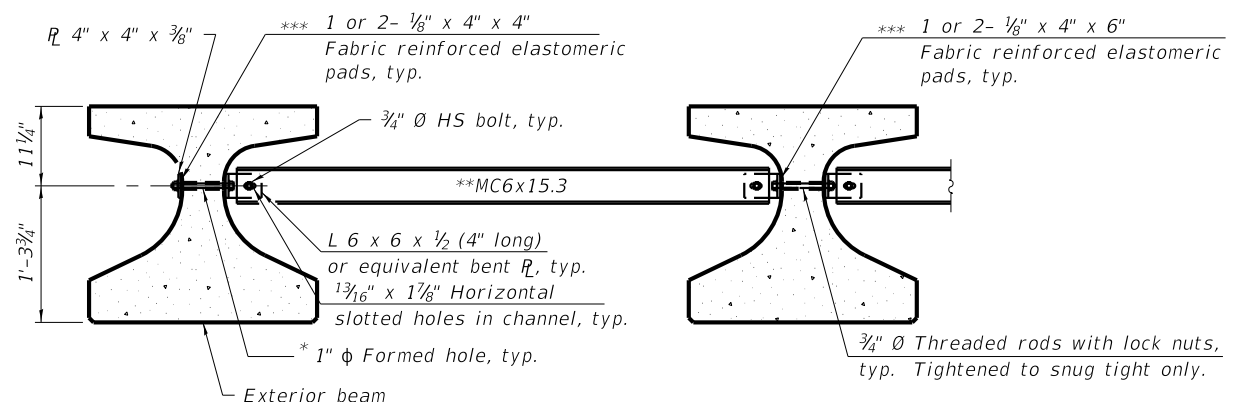
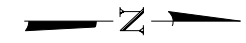
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 006-3248
STRUCTURAL SHEET NO. 9 OF 21 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	23
CONTRACT# 87737			WHA# 1198D13	
ILLINOIS		FED. AID PROJECT L9CN(178)		

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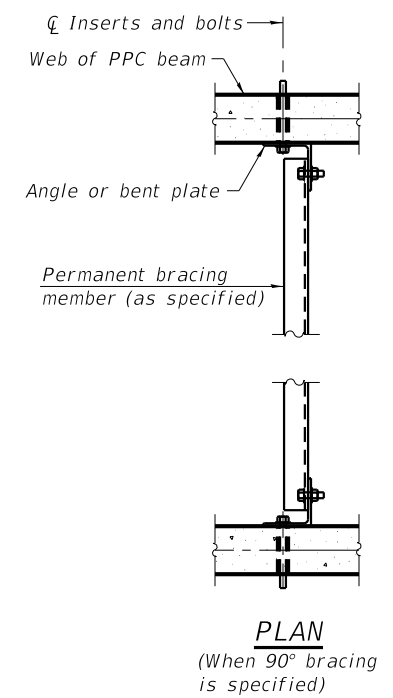


FRAMING PLAN



Notes:
 All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.
 Two hardened washers are required for each set of oversized holes.
 All holes shall be 1 5/16" Ø unless otherwise noted.
 5/16" x 3" x 3" plate washers are required over all slotted holes.
 All bolts, threaded rods, and hardware shall be galvanized according to AASHTO M232.
 Threaded rods shall be ASTM F 1554 Grade 55.
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
 Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Beams.

- * Fabricator shall locate to miss strands within permissible tolerances.
- ** Alternate MC6x18 channels are permitted to facilitate material acquisition.
- *** Place pads as necessary to provide a flat mounting surface between the steel and concrete.



PLAN
(When 90° bracing is specified)

Legend:
 I: Non-composite moment of inertia of beam section (in⁴).
 I': Composite moment of inertia of beam section (in⁴).
 Sb: Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
 Sb': Composite section modulus for the bottom fiber of the prestressed beam (in³).
 St: Non-composite section modulus for the top fiber of the prestressed beam (in³).
 St': Composite section modulus for the top fiber of the prestressed beam (in³).
 DC1: Un-factored non-composite dead load (kips/ft.).
 M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
 DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
 M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
 DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
 M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
 M_{ℓ + 1M}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
 (ℓ + 1M): HL93 design loading that was used in the STRENGTH I Limit State.

INTERIOR BEAM MOMENT TABLE		
0.5 Span		
I	(in ⁴)	33,879
I'	(in ⁴)	103,188
Sb	(in ³)	3,060
Sb'	(in ³)	6,101
St	(in ³)	2,127
St'	(in ³)	23,001
DC1	(k/ft)	1,165
M _{DC1}	(k-ft)	595
DC2	(k/ft)	0.02
M _{DC2}	(k-ft)	10
DW	(k/ft)	0.325
M _{DW}	(k-ft)	166
M _{ℓ + 1M}	(k-ft)	1,492
LLDF		0.562
M _(ℓ + 1M)	(k-ft)	839

INTERIOR BEAM REACTION TABLE		
Abut.		
LLDF		0.707
OCF		
R _{DC1}	(k)	37.2
R _{DC2}	(k)	0.6
R _{DW}	(k)	10.4
R _ℓ	(k)	43.5
R _{1M}	(k)	15.3
R _{Total}	(k)	107

PERMANENT BRACING DETAILS FOR IL27 BEAMS



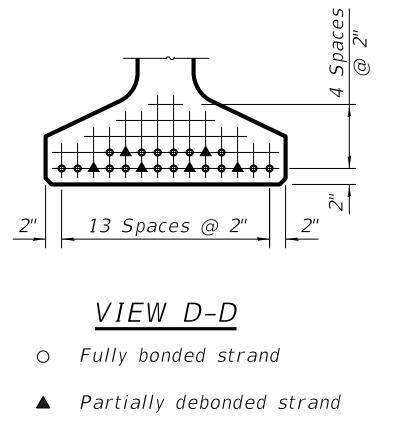
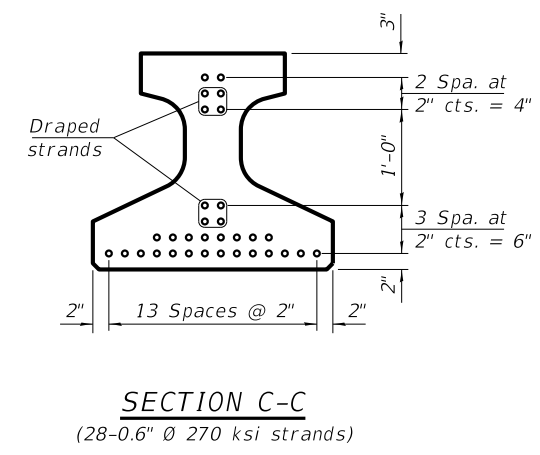
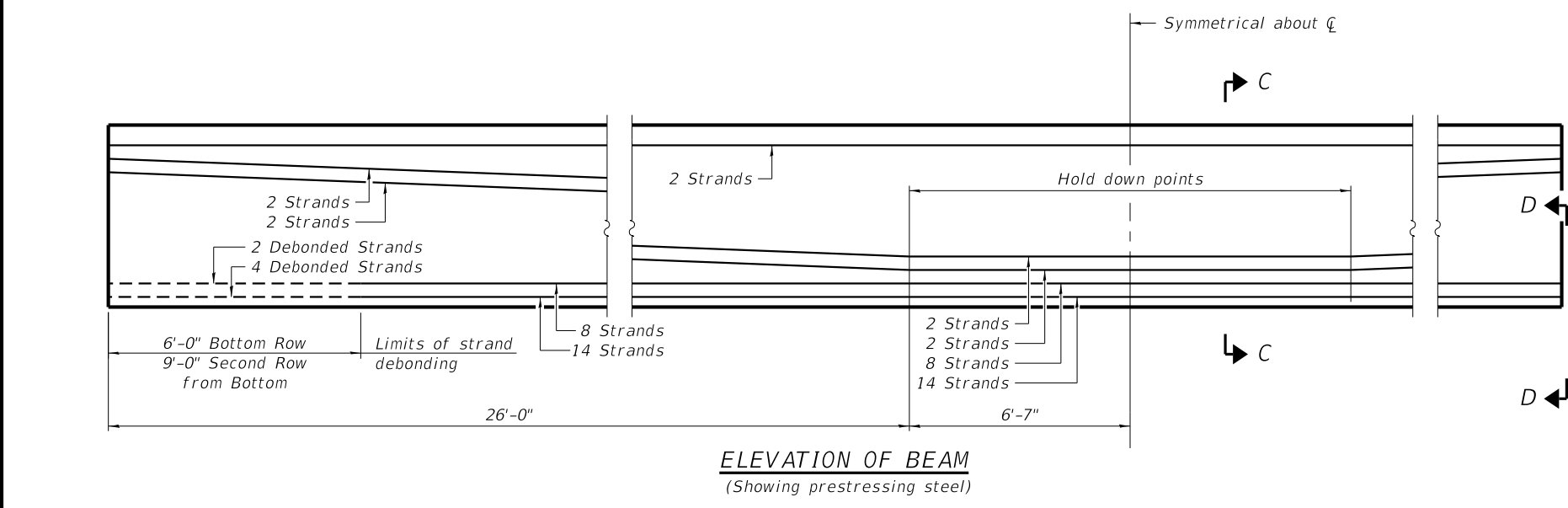
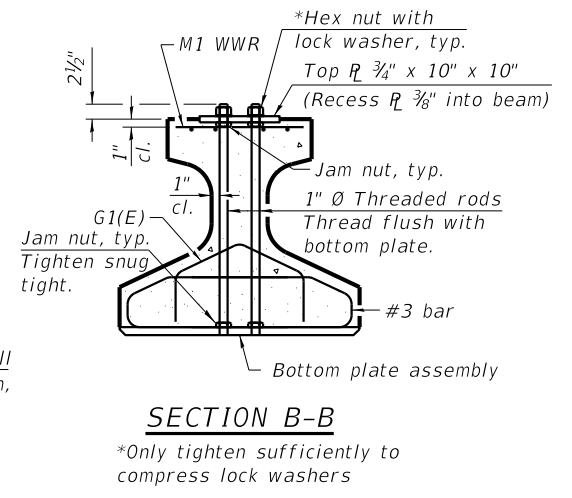
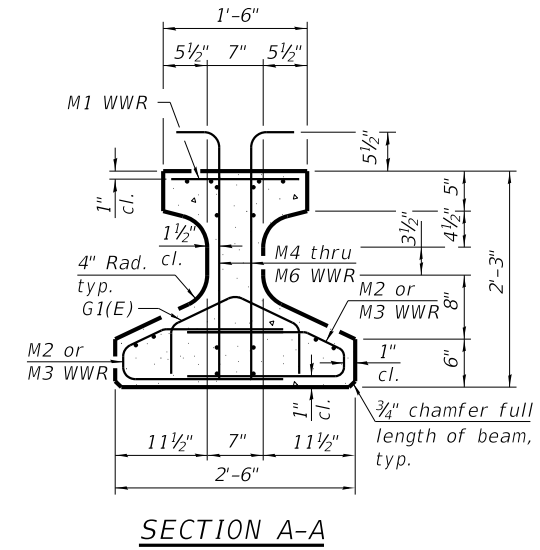
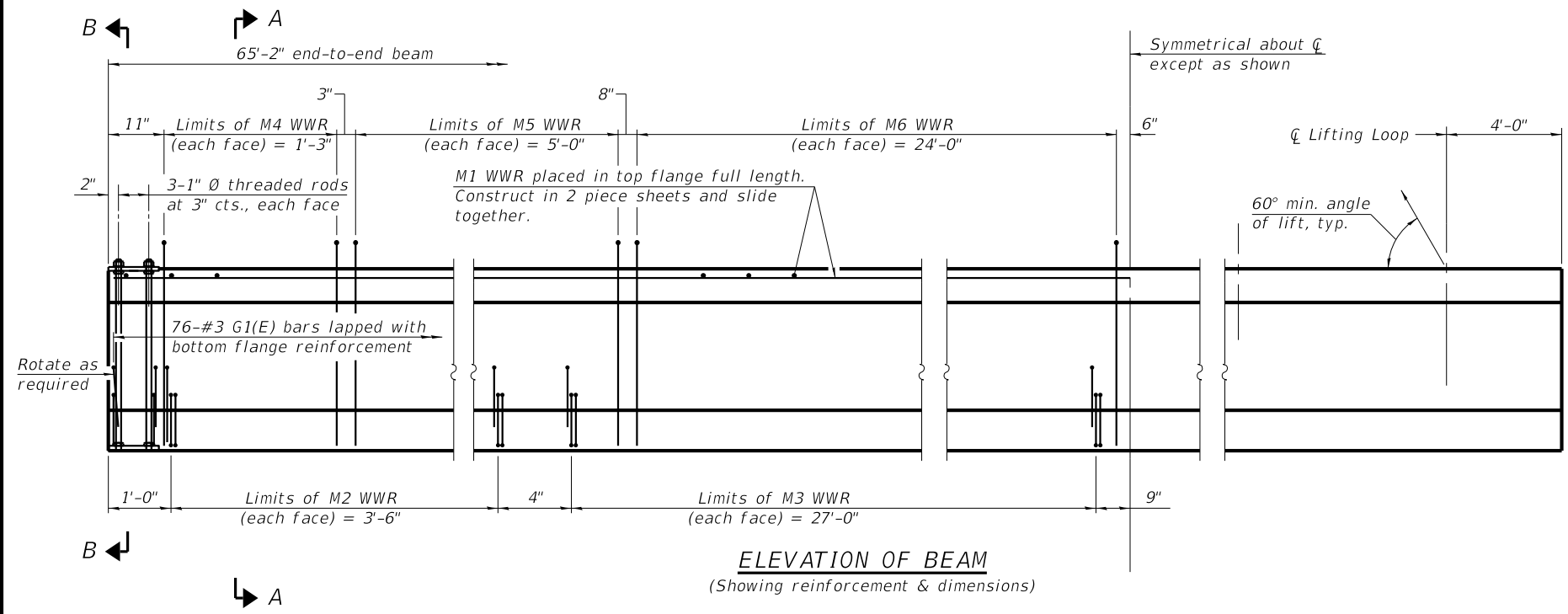
DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

FRAMING PLAN
STRUCTURE NO. 006-3248
 STRUCTURAL SHEET NO. 10 OF 21 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	24
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

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Note:
See structural sheet 12 of 19 for additional details and Bill of Material.



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

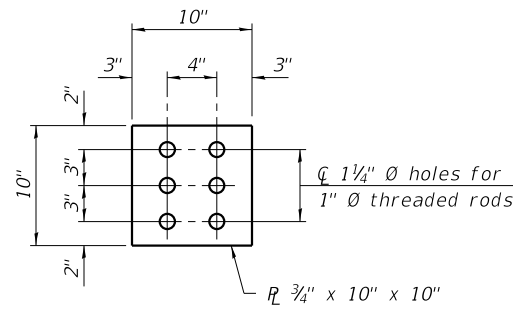
BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

IL27N BEAM
STRUCTURE NO. 006-3248
STRUCTURAL SHEET NO. 11 OF 21 SHEETS

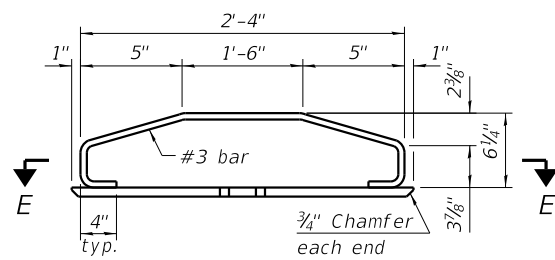
CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	25
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

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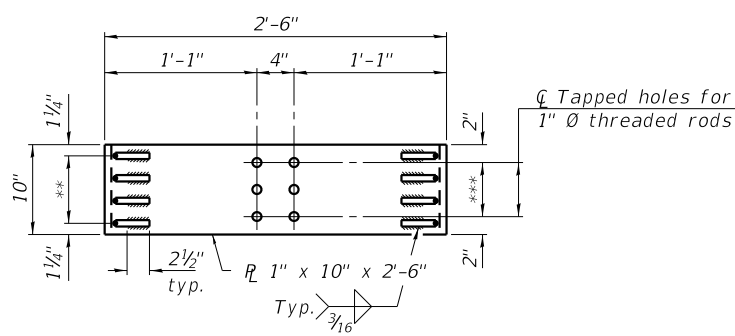
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PLAN - TOP PLATE



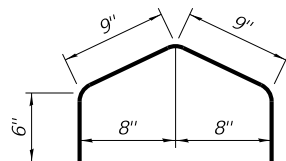
ELEVATION - BOTTOM PLATE ASSEMBLY



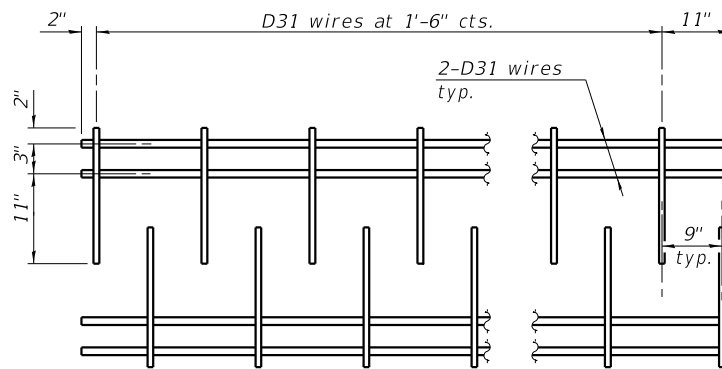
SECTION E-E

** 3 Spaces at 2 1/2" = 7 1/2"

*** 2 Spaces at 3" = 6"

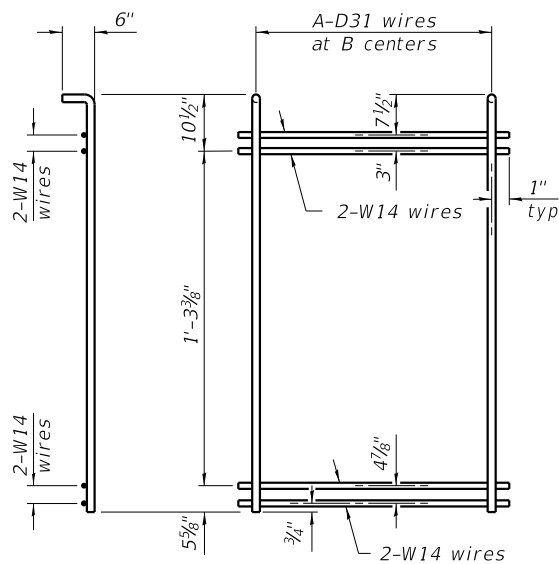


BAR G1(E)



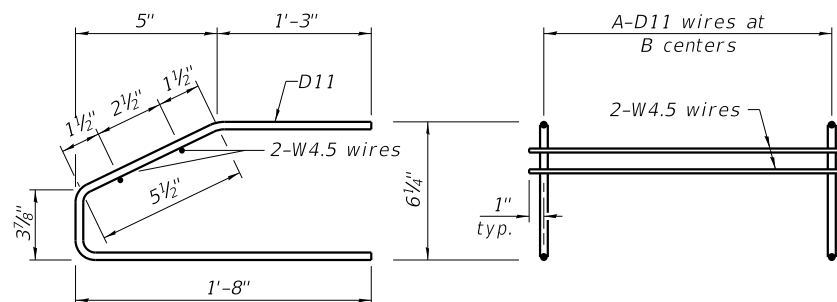
M1 WWR DETAIL

When multiple sheets of M1 WWR are required along the beam length, #5(E) bars (5'-0" long) shall be used to splice the longitudinal D31 wires together (Min. Lap 2'-2").



M4 THRU M6 WWR DETAIL

(See Table of Dimensions)



M2 AND M3 WWR DETAIL

(See Table of Dimensions)

TABLE OF DIMENSIONS

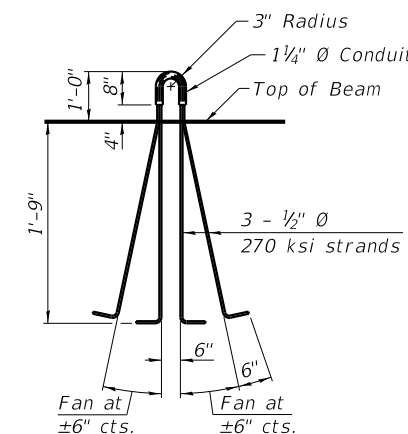
(WWR tables are based on Grade 70)

SPAN 1

WWR	A	B
M2	15	3"
M3	19	1'-6"
M4	6	3"
M5	11	6"
M6	25	1'-0"

NOTES

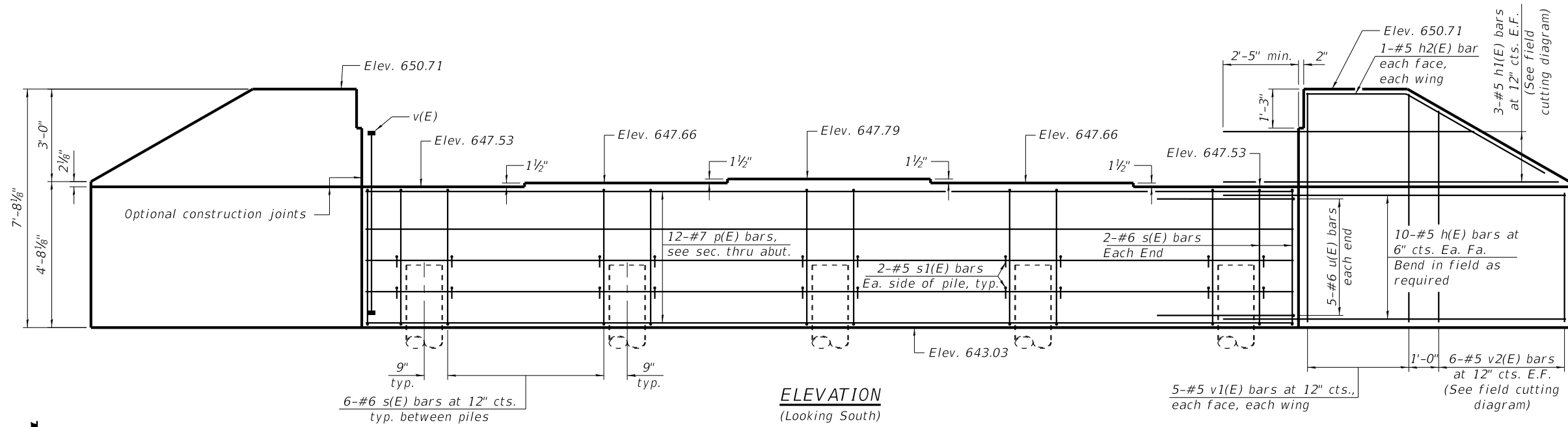
Inserts for 3/4" Ø threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams. Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter for beam strands shall be 0.6" and the nominal cross-sectional area shall be 0.217 sq. in. The nominal diameter for lifting loops shall be 1/2" and the nominal cross sectional area shall be 0.153 sq. in. The beams shall have a final concrete compressive strength, f'c, of 8500 psi and a release concrete compressive strength, f'ci, of 6,500 psi. A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling. The top and bottom plates shall be AASHTO M270 Grade 50. The top plates and bottom plate assemblies shall be galvanized according to AASHTO M111. The threaded rods, nuts and washers shall be galvanized according to AASHTO M232. Threaded rods shall be ASTM F 1554 Grade 55. Welded Wire Reinforcement (WWR) shall conform to ASTM A884 with a Class A, Type 1 epoxy coating or ASTM A1060, Table 3 galvanized coating.



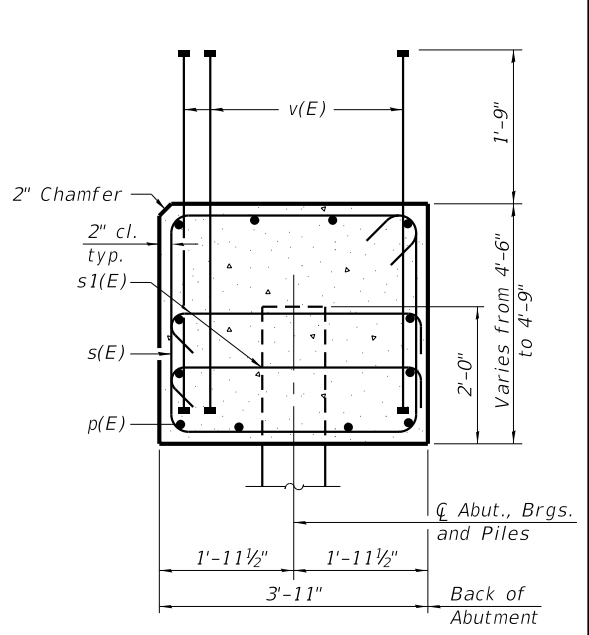
LIFTING LOOP DETAIL

BILL OF MATERIAL

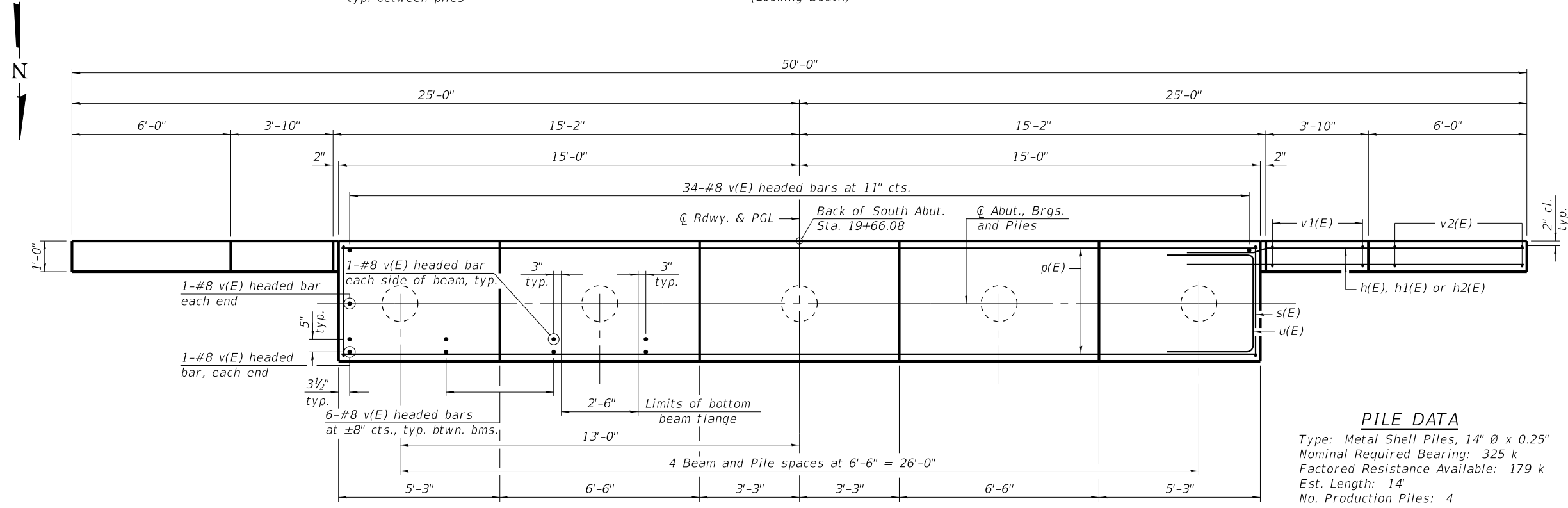
Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Beams, IL27N	Ft.	326



ELEVATION
(Looking South)



SEC. THRU ABUT.



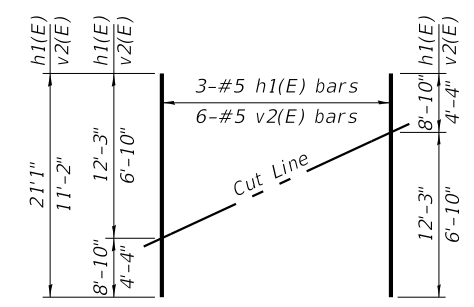
PLAN

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#5	12'-3"	—
h1(E)	6	#5	21'-1"	—
h2(E)	4	#5	10'-3"	—
p(E)	14	#7	29'-8"	—
s(E)	28	#6	16'-10"	□
s1(E)	20	#5	4'-7"	┌
u(E)	10	#6	12'-1"	□
v(E)	72	#8	6'-1"	—
v1(E)	20	#5	7'-4"	—
v2(E)	12	#5	11'-2"	—
Concrete Structures		Cu. Yd.	25.2	
Reinforcement Bars, Epoxy Coated		Pound	3,990	
Furnishing Metal Shell Piles 14" x 0.250"		Foot	56	
Driving Piles		Foot	56	
Test Pile, Metal Shell Piles 14" x 0.250"		Each	1	
Pile Shoes		Each	5	
Geocomposite Wall Drain		Sq. Yd.	33	
Pipe Underdrain for Structures 4"		Foot	80	
Porous Granular Embankment (Special)		Cu. Yd.	122	

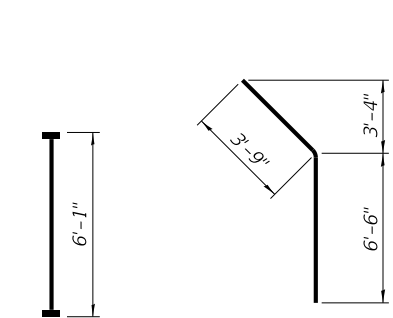
PILE DATA

Type: Metal Shell Piles, 14" Ø x 0.25"
 Nominal Required Bearing: 325 k
 Factored Resistance Available: 179 k
 Est. Length: 14'
 No. Production Piles: 4
 No. Test Piles: 1

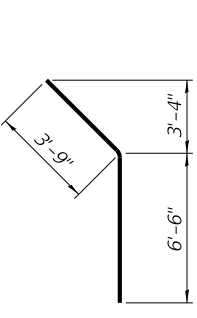


FIELD CUTTING DIAGRAM

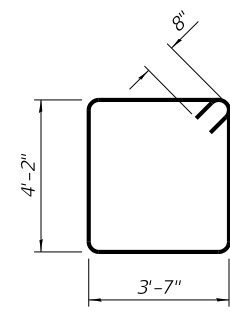
Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite face.



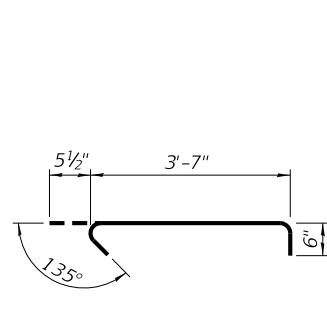
BAR v(E)
(Headed)



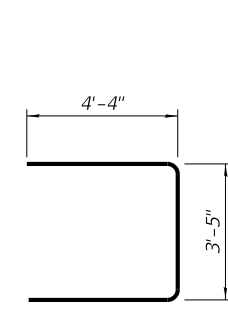
BAR h2(E)



BAR s(E)



BAR s1(E)



BAR u(E)

NOTES:

For details of piles see Structural Sheet 15 of 19.
 For drainage details, see Structural Sheet 2 of 19.
 Pour steps monolithically with cap.
 All exposed edges shall have 3/4" chamfers, except as noted.
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

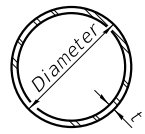


DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

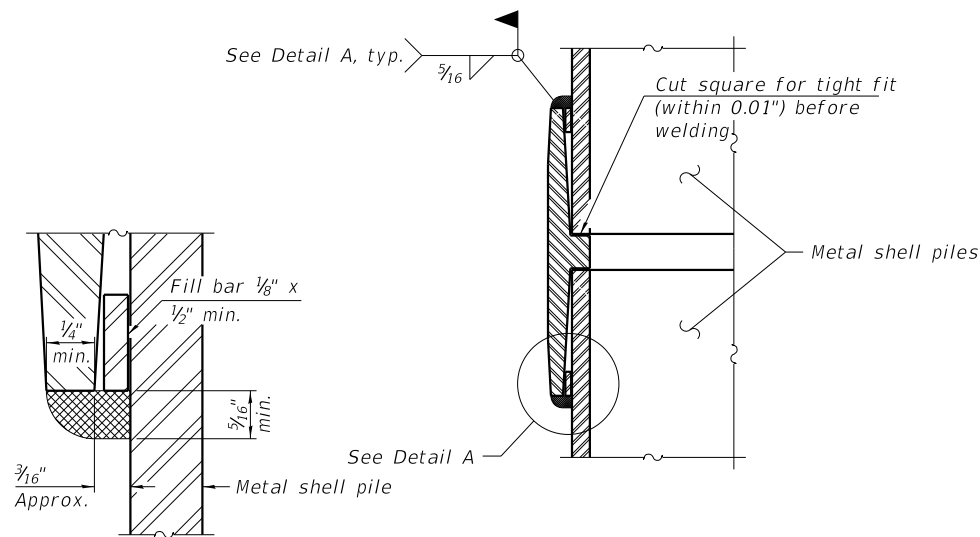
SOUTH ABUTMENT DETAILS
STRUCTURE NO. 006-3248
 STRUCTURAL SHEET NO. 13 OF 21 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	27
CONTRACT# 87737			WHA# 1198D13	
ILLINOIS			FED. AID PROJECT L9CN(178)	

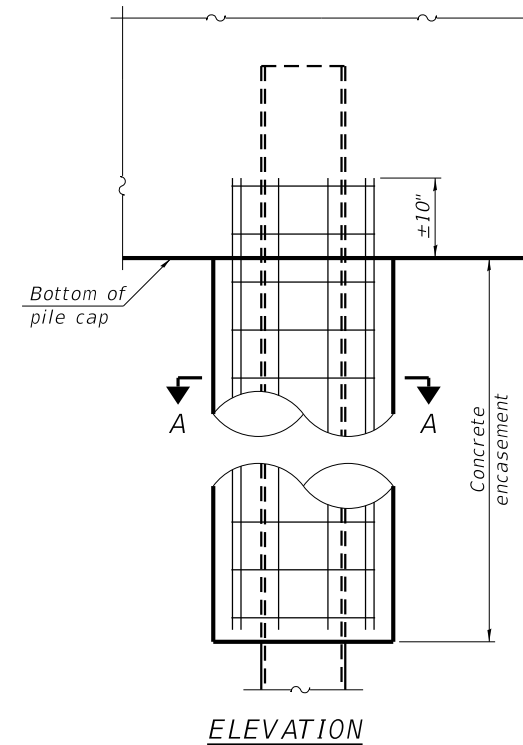


METAL SHELL PILE TABLE

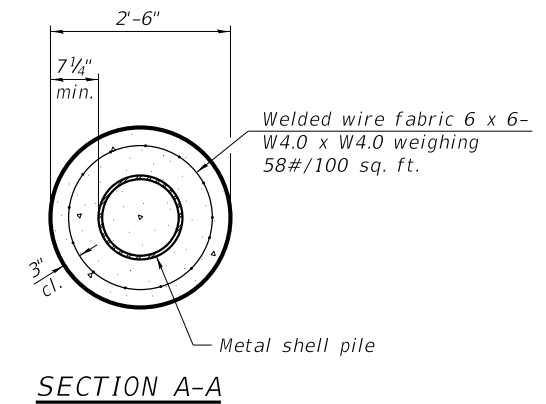
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A

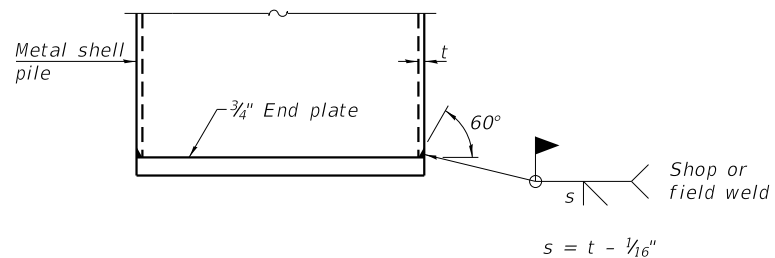


ELEVATION



SECTION A-A

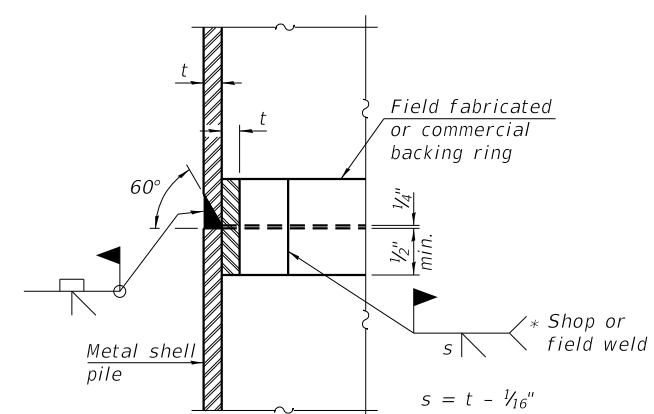
INDIVIDUAL PILE CONCRETE ENCASEMENT AT PIERS



END PLATE ATTACHMENT

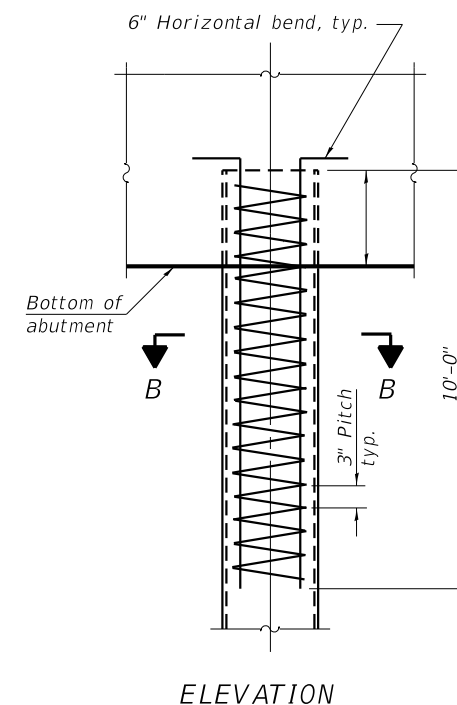
WELDED COMMERCIAL SPLICE

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

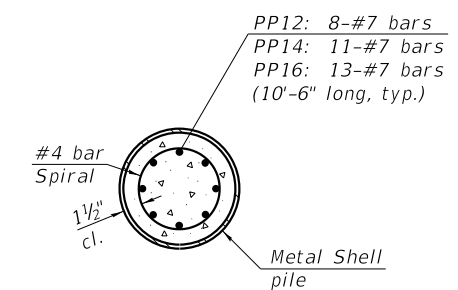


COMPLETE PENETRATION WELD SPLICE

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

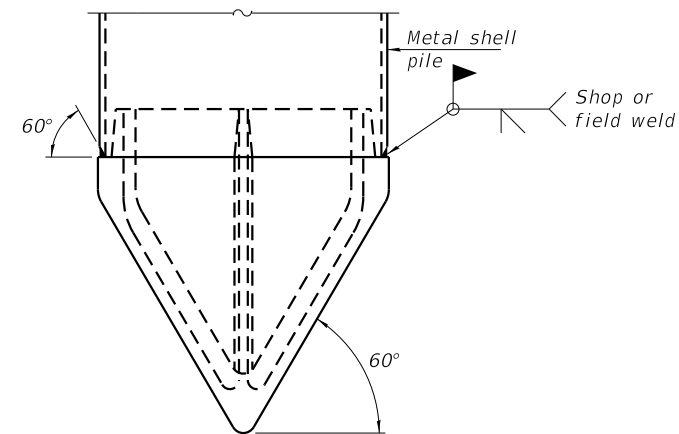


ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS



PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

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

F-MS 8-11-2017



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

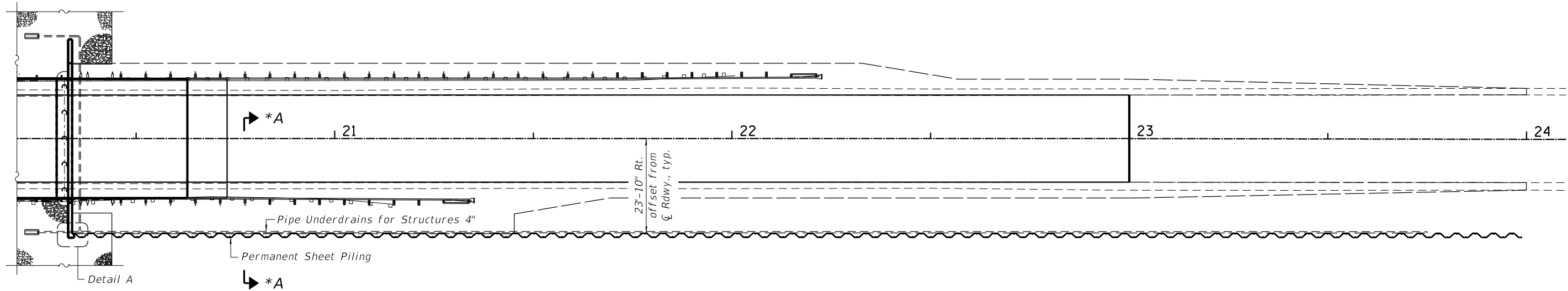
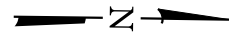
**BUREAU COUNTY
 C.H. 8 (S. WYANET-WALNUT ROAD)
 OVER MAPLE GROVE CREEK
 STATION 20+00**

**METAL SHELL PILE DETAILS
 STRUCTURE NO. 006-3248**
 STRUCTURAL SHEET NO. 15 OF 21 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	29
CONTRACT# 87737			WHA# 1198D13	
ILLINOIS		FED. AID PROJECT L9CN(178)		

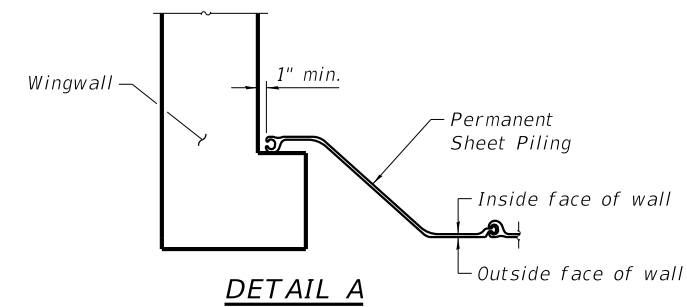
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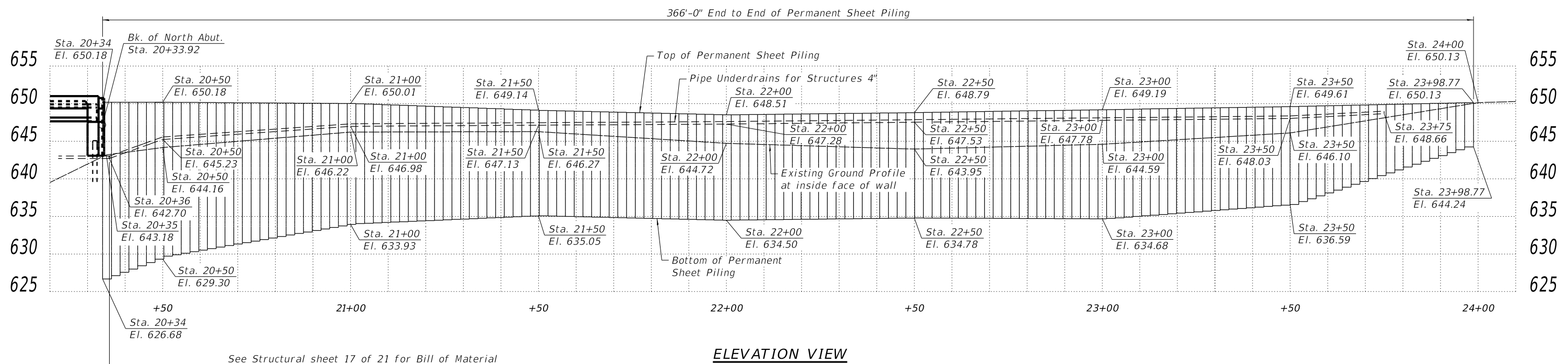


PLAN VIEW

* See Structural sheet 17 of 21 for Section Thru Sheeting



DETAIL A



ELEVATION VIEW

See Structural sheet 17 of 21 for Bill of Material

See Structural sheet 2 of 21 for Layout and
Structural sheet 14 of 21 for Bill of Material



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

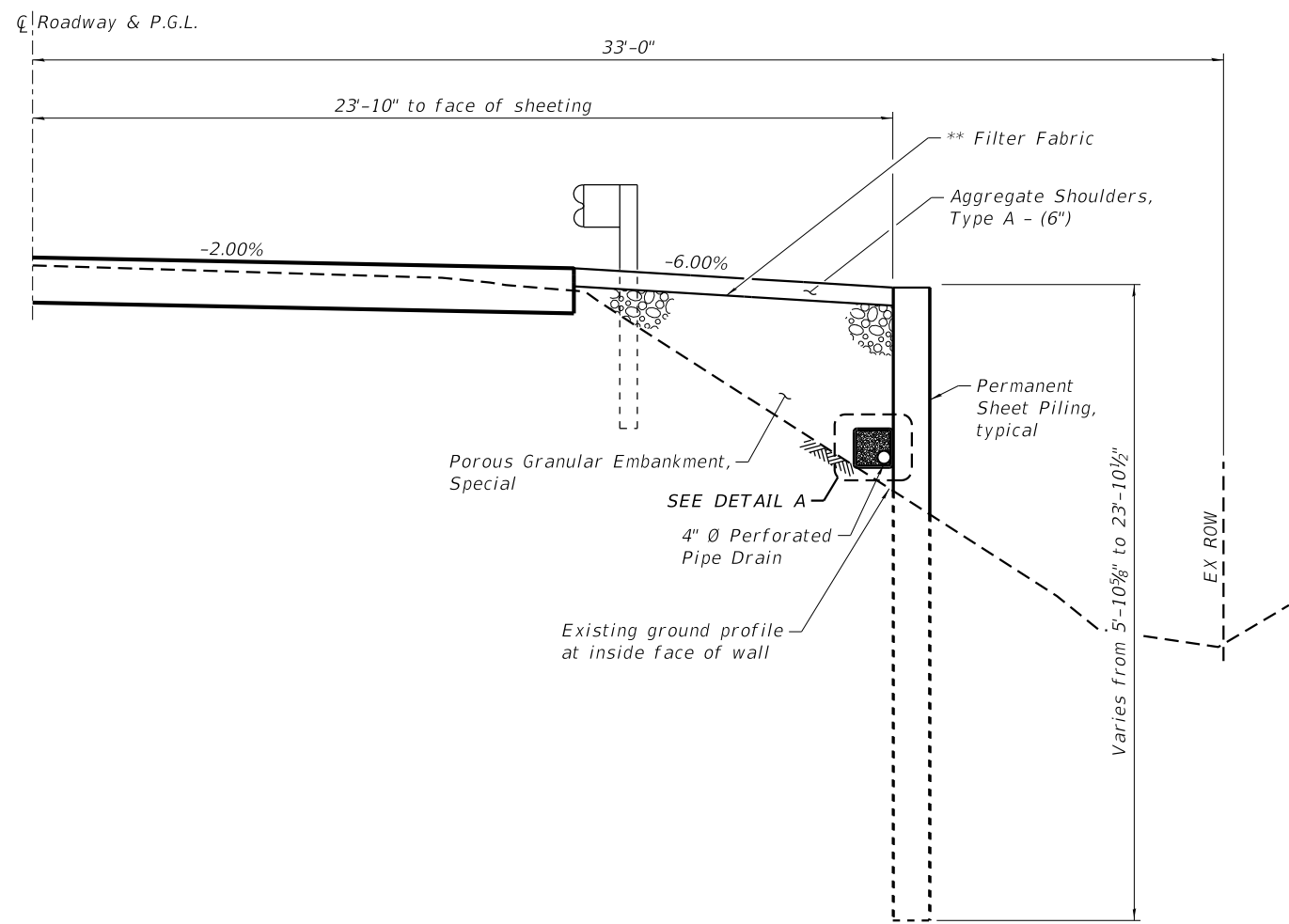
**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

**SOIL RETENTION SYSTEM PLAN AND PROFILE
STRUCTURE NO. 006-3248**

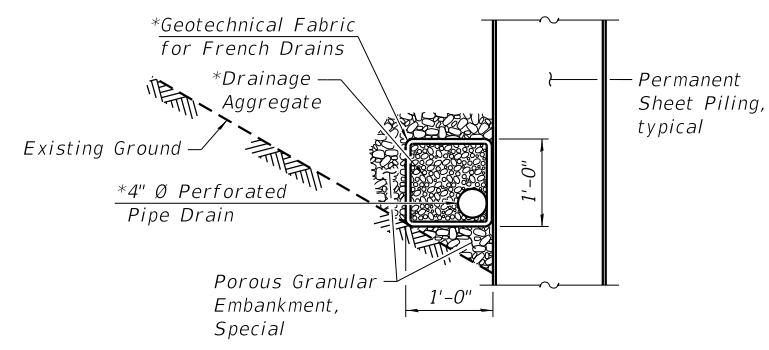
SCALE: 1" = 10'-0" | STRUCTURAL SHEET NO. 16 OF 21 SHEETS | STA. 21+20.00 TO STA. 24+10.00

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	30
CONTRACT# 87737			WHA# 1198D13	
ILLINOIS		FED. AID PROJECT L9CN(178)		

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**SECTION A-A
THRU SHEETING**
(Looking North)
** South of Sta. 22+23 shown
(North of Sta. 22+23 similar)



DETAIL A
*Included in the cost of Pipe Underdrains for Structures 4"

**SOIL RETENTION SYSTEM
BILL OF MATERIAL**

Item	Unit	Quantity
Permanent Sheet Piling	Sq. Ft.	5,300
Pipe Underdrains for Structures 4"	Foot	339
Porous Granular Embankment, Special	Ton	519

NOTES:

All Permanent Sheet Piling shall be Hot-Dipped Galvanized in accordance with AASHTO M-232.

Permanent Sheet Piling shall be PZC 14 or better with a minimum section modulus of 26.0 in³/ft and minimum moment of inertia of 164.3 in⁴/ft. See Special Provisions.

** Filter Fabric shall be placed between the materials of Aggregate Shoulders Type A or Topsoil (4") and the Porous Granular Embankment Special. See Schedule of Quantities and Proposed Roadway Typical Sections for shoulder and topsoil locations.

Midwest Testing Services, Inc.
 3705 Progress Blvd.
 Peru, IL 61354
BORING LOG
 Sheet 1 of 4
 Phone: 815-223-6696
 Fax: 815-223-6659
 e-mail: mts37@comcast.net

Client: Willet Hofmann & Associates
 Project Name: CH-8 Over Maple Creek
 Project Site: Section 09-00217-00-BR
Bureau County, Illinois

Boring No. B-1
 Surface Elev. 655.10
 Auger Depth 76' Rotary Depth NA
 Start Date 05/26/18 Finish Date 05/26/18

Location: 8' Left of Station 20+21

(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 (%)		
655.10										Randy Safranski Diedrich D-120	
654.10	Stiff Black And Brown Clay Fill		1								
653.10			2								
652.10			3	1	SS	1.3	8	B	22		
651.10			4								
650.10	Stiff Brownish Gray Clay		5								
649.10			6	2	SS	1.0	6	B	24		
648.10			7								
647.10			8	3	SS	1.1	6	B	24		
646.10	Very Stiff Gray Silty Clay Till		9								
645.10			10	4	SS	1.1	6	B	23		
644.10			11								
643.10			12								
642.10	Hard Gray Silty Clay Till With Sand Seams		13	5	SS	1.3	8	B	22		
641.10			14								
640.10			15	6	SS	1.6	10	B	20		
639.10			16								
638.10	Very Stiff Gray Silty Clay Till		17								
637.10			18	7	SS	2.8	18	B	12		
636.10			19								
635.10			20	8	SS	4.2	33	S	11		

Groundwater Data: Static water level at time of drilling - Elevation 635.0
 Comments:

Midwest Testing Services, Inc.
 3705 Progress Blvd.
 Peru, IL 61354
BORING LOG
 Sheet 2 of 4
 Phone: 815-223-6696
 Fax: 815-223-6659
 e-mail: mts37@comcast.net

Client: Willet Hofmann & Associates
 Project Name: CH-8 Over Maple Creek
 Project Site: Section 09-00217-00-BR
Bureau County, Illinois

Boring No. B-1
 Surface Elev. 655.10
 Auger Depth 76' Rotary Depth NA
 Start Date 05/26/18 Finish Date 05/26/18

Location: 8' Left of Station 20+21

(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 (%)		
634.10										Randy Safranski Diedrich D-120	
633.10	Dense Gray Fine Sand And Gravel		22								
632.10			23	9	SS	--	32	--	--		
631.10			24								
630.10			25	10	SS	--	39	--	--		
629.10	Very Dense Gray Coarse Gravel		26								
628.10			27								
627.10			28	11	SS	--	36	--	--		
626.10			29								
625.10	Dense Gray Coarse Sand And Gravel With Silty Clay Till Seams		30	12	SS	--	52	--	--		
624.10			31								
623.10			32								
622.10			33								
621.10	Dense Gray Coarse Sand And Gravel With Silty Clay Till Seams		34								
620.10			35	13	SS	--	41	--	--		
619.10			36								
618.10			37								
617.10	Dense Gray Coarse Sand And Gravel With Silty Clay Till Seams		38								
616.10			39								
615.10			40	14	SS	--	42	--	--		
614.10			41								

Groundwater Data: Static water level at time of drilling - Elevation 635.0
 Comments:

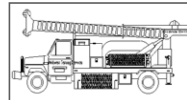


DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

SOIL BORING LOGS
STRUCTURE NO. 006-3248
 STRUCTURAL SHEET NO. 18 OF 21 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	32
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		



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

BORING LOG

Sheet 3 of 4

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

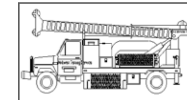
Client: Willet Hofmann & Associates
 Project Name: CH-8 Over Maple Creek
 Project Site: Section 09-00217-00-BR
Bureau County, Illinois

Boring No. B-1
 Surface Elev. 655.10
 Auger Depth 76' Rotary Depth NA
 Start Date 05/26/18 Finish Date 05/26/18

Location: 8' Left of Station 20+21

(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 (%)		
613.10										Randy Safranski Diedrich D-120	
612.10	Hard Gray Silty Clay Till		43								
611.10			44								
610.10			45	15	SS	5.2	28	S	12		
609.10			46								
608.10			47								
607.10	Dense Gray Coarse Sand		48								
606.10			49								
605.10			50	16	SS	---	33	---	---		
604.10			51								
603.10			52								
602.10	Hard Gray Silty Clay Till		53								
601.10			54								
600.10			55	17	SS	4.7	31	S	11		
599.10			56								
598.10			57								
597.10			58								
596.10			59								
595.10			60								
594.10			61	18	SS	5.1	32	S	11		
593.10			62								

Groundwater Data: Static water level at time of drilling - Elevation 635.0
 Comments:



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

BORING LOG

Sheet 4 of 4

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

Client: Willet Hofmann & Associates
 Project Name: CH-8 Over Maple Creek
 Project Site: Section 09-00217-00-BR
Bureau County, Illinois

Boring No. B-1
 Surface Elev. 655.10
 Auger Depth 76' Rotary Depth NA
 Start Date 05/26/18 Finish Date 05/26/18

Location: 8' Left of Station 20+21

(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 (%)		
592.10										Randy Safranski Diedrich D-120	
591.10	Hard Gray Silty Clay Till		64								
590.10			65								
589.10			66	19	SS	5.0	30	S	11		
588.10			67								
587.10			68								
586.10			69								
585.10			70	20	SS	4.3	25	B	11		
584.10			71								
583.10			72								
582.10			73								
581.10		74									
580.10		75	21	SS	4.1	22	B	12			
579.10		76									
578.10		77									
577.10		78									
576.10		79									
575.10		80									
574.10		81									
573.10		82									
572.10		83									

Groundwater Data: Static water level at time of drilling - Elevation 635.0
 Comments:

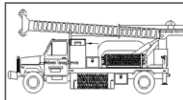


DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

SOIL BORING LOGS
STRUCTURE NO. 006-3248
 STRUCTURAL SHEET NO. 19 OF 21 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	33
CONTRACT# 87737			WHA# 1198D13	
ILLINOIS		FED. AID PROJECT L9CN(178)		



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

BORING LOG

Sheet 1 of 4

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

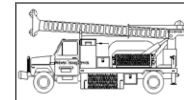
Client: Willet Hofmann & Associates
 Project Name: CH-8 Over Maple Creek
 Project Site: Section 09-00217-00-BR
Bureau County, Illinois

Boring No. B-2
 Surface Elev. 655.20
 Auger Depth 76' Rotary Depth NA
 Start Date 05/26/18 Finish Date 05/26/18

Location: 7' Right of station 19+83

(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 (%)		
655.20										Randy Safranski Diedrich D-120	
654.20	Medium Brownish Black Sandy Clay (Fill)		1								
653.20			2								
652.20			3	1	SS	---	11	---	14		
651.20	Stiff Black And Brown Clay (Fill)		4								
650.20			5								
649.20			6	2	SS	1.4	9	B	19		
648.20			7								
647.20			8	3	SS	1.2	9	B	21		
646.20	Very Stiff Brown To Brownish Gray Silty Clay Till		9								
645.20			10								
644.20			11	4	SS	1.6	10	B	21		
643.20			12								
642.20			13	5	SS	3.1	19	B	12		
641.20			14								
640.20			15	6	SS	2.9	24	B	11		
639.20			16								
638.20		17									
637.20		18	7	SS	2.6	22	B	11			
636.20		19									
635.20		20	8	SS	3.3	6	B	10			

Groundwater Data: Static water level at time of drilling - Elevation 635.0
 Comments:



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

BORING LOG

Sheet 2 of 4

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

Client: Willet Hofmann & Associates
 Project Name: CH-8 Over Maple Creek
 Project Site: Section 09-00217-00-BR
Bureau County, Illinois

Boring No. B-2
 Surface Elev. 655.20
 Auger Depth 76' Rotary Depth NA
 Start Date 05/26/18 Finish Date 05/26/18

Location: 7' Right of station 19+83

(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 (%)		
634.20										Randy Safranski Diedrich D-120	
633.20	Dense Gray Fine To Coarse Sand With Occasional Coarse Gravel		22								
632.20			23	9	SS	---	30	---	---		
631.20			24								
630.20			25								
629.20			26	10	SS	---	34	---	---		
628.20			27								
627.20			28	11	SS	---	38	---	---		
626.20			29								
625.20			30								
624.20			31	12	SS	---	41	---	---		
623.20			32								
622.20		Dense Gray Coarse Sand And Gravel With Silty Clay Till Seams		33							
621.20				34							
620.20				35	13	SS	---	37	---		---
619.20			36								
618.20			37								
617.20			38								
616.20			39								
615.20			40	14	SS	---	44	---	---		
614.20		41									

Groundwater Data: Static water level at time of drilling - Elevation 635.0
 Comments:

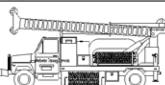


DESIGNED - SM	REVISED -
CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

SOIL BORING LOGS
STRUCTURE NO. 006-3248
 STRUCTURAL SHEET NO. 20 OF 21 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	34
CONTRACT# 87737			WHA# 1198D13	
ILLINOIS		FED. AID PROJECT L9CN(178)		



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

BORING LOG

Sheet 3 of 4

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


Client: Willet Hofmann & Associates
 Project Name: CH-8 Over Maple Creek
 Project Site: Section 09-00217-00-BR
Bureau County, Illinois

Boring No. B-2
 Surface Elev. 655.20
 Auger Depth 76' Rotary Depth NA
 Start Date 05/26/18 Finish Date 05/26/18

Location: 7' Right of station 19+83

(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 (%)		
613.20										Randy Safranski Diedrich D-120	
612.20			43								
611.20			44								
610.20			45								
609.20			46	15	SS	---	36	---	---		
608.20	Dense Gray Coarse Sand		47								
607.20			48								
606.20			49								
605.20			50								
604.20			51	16	SS	---	33	---	---		
603.20			52								
602.20			53								
601.20			54								
600.20			55								
599.20			56	17	SS	4.8	28	B	11		
598.20	Hard Gray Silty Clay Till		57								
597.20			58								
596.20			59								
595.20			60								
594.20			61	18	SS	4.5	28	C	11		
593.20			62								

Groundwater Data: Static water level at time of drilling - Elevation 635.0
 Comments:



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

BORING LOG

Sheet 4 of 4

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

Client: Willet Hofmann & Associates
 Project Name: CH-8 Over Maple Creek
 Project Site: Section 09-00217-00-BR
Bureau County, Illinois

Boring No. B-2
 Surface Elev. 655.20
 Auger Depth 76' Rotary Depth NA
 Start Date 05/26/18 Finish Date 05/26/18

Location: 7' Right of station 19+83

(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 (%)		
592.20										Randy Safranski Diedrich D-120	
591.20			64								
590.20			65								
589.20			66	19	SS	4.5	25	B	12		
588.20			67								
587.20			68								
586.20	Hard Gray Silty Clay Till		69								
585.20			70								
584.20			71	20	SS	4.2	22	B	12		
583.20			72								
582.20			73								
581.20			74								
580.20			75								
579.20			76	21	SS	4.4	24	B	11		
578.20			77								
577.20			78								
576.20			79								
575.20			80								
574.20			81								
573.20			82								
572.20			83								

Groundwater Data: Static water level at time of drilling - Elevation 635.0
 Comments:



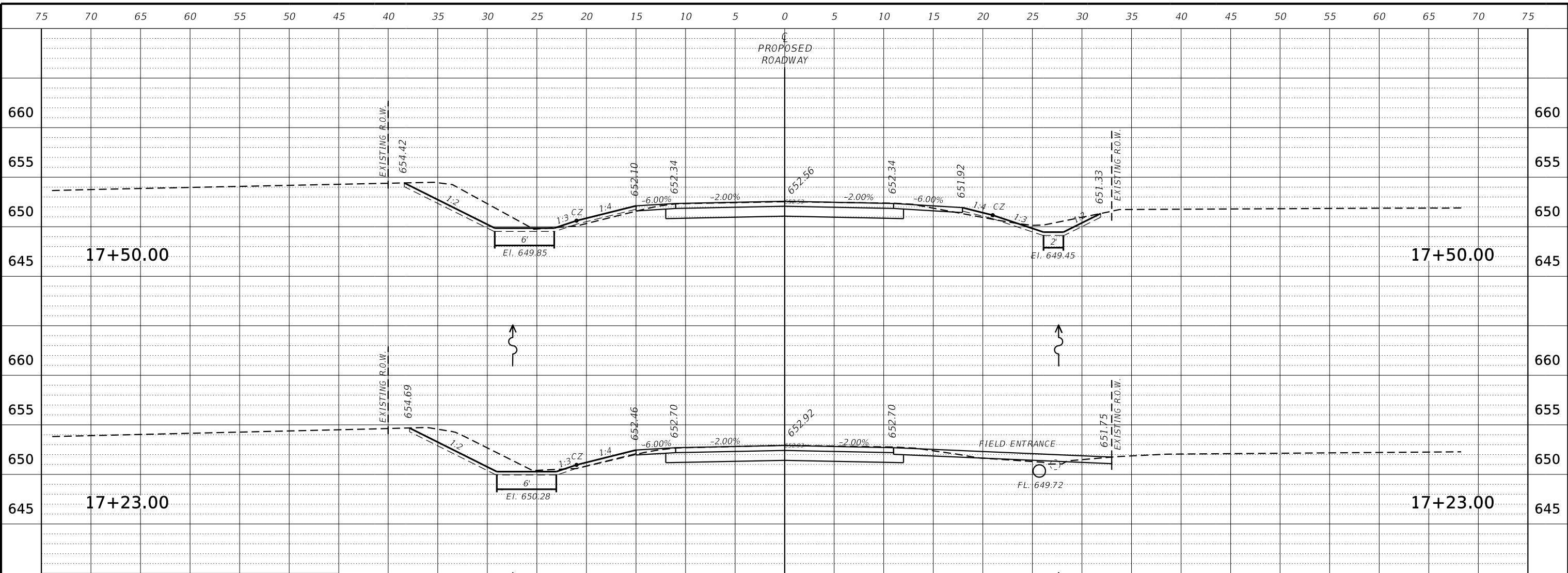
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CHECKED - BKC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

SOIL BORING LOGS
STRUCTURE NO. 006-3248
 STRUCTURAL SHEET NO. 21 OF 21 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	35
CONTRACT# 87737			WHA# 1198D13	
ILLINOIS		FED. AID PROJECT L9CN(178)		

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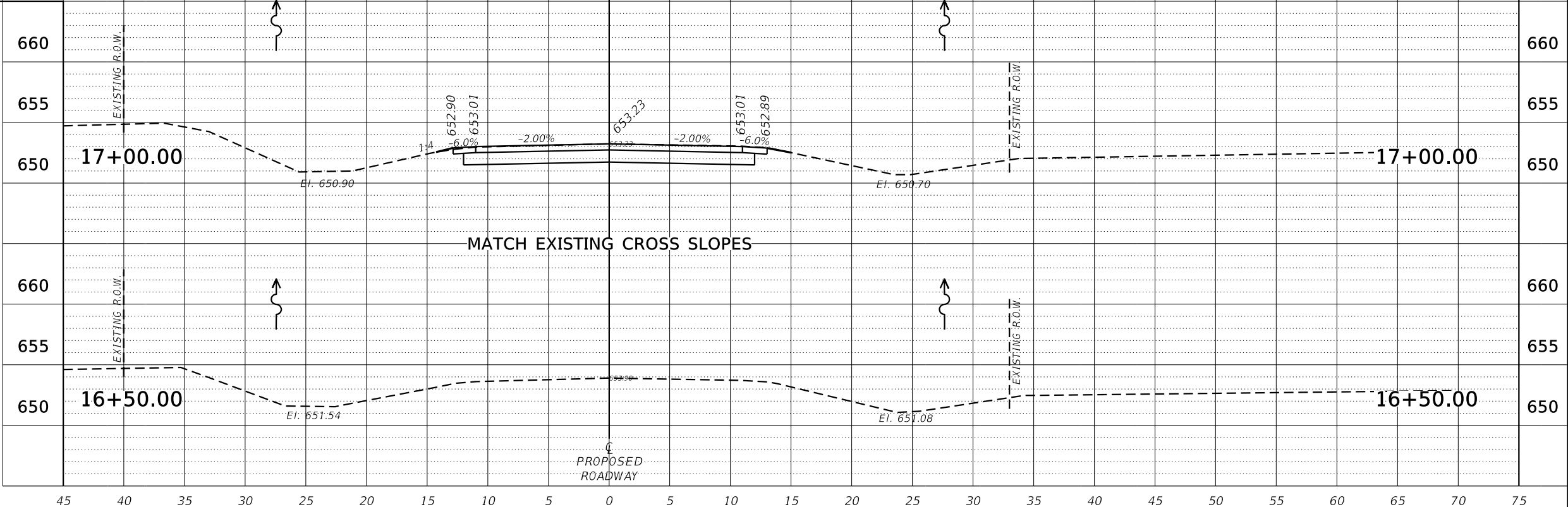


**CROSS SECTION EARTHWORK
BUREAU COUNTY**

C.H. 8 (S. Wyanet-Walnut Rd)

STATION	CUT (SQ FT)	FILL (SQ FT)
16+50.00	0.00	0.00
17+00.00	36.74	0.09
17+23.00	64.74	1.41
17+50.00	70.65	1.73
18+00.00	54.65	4.20
18+50.00	47.92	19.67
19+00.00	42.10	34.19
19+50.00	60.97	51.51
19+65.00	61.41	68.34

STRUCTURE		
BRIDGE		
EXCAVATION		
20+35.00	60.42	27.91
20+50.00	58.64	19.93
21+00.00	31.81	10.91
21+50.00	31.36	18.07
22+00.00	33.78	8.30
22+50.00	39.05	7.40
23+00.00	54.71	5.22
23+25.00	8.48	3.27
23+50.00	8.69	2.36
23+75.00	9.50	1.13
24+00.00	0.00	0.00



DESIGNED - GBG	REVISED -
CHECKED - GFS	REVISED -
DRAWN - GBG	REVISED -
CHECKED - BKC	REVISED -

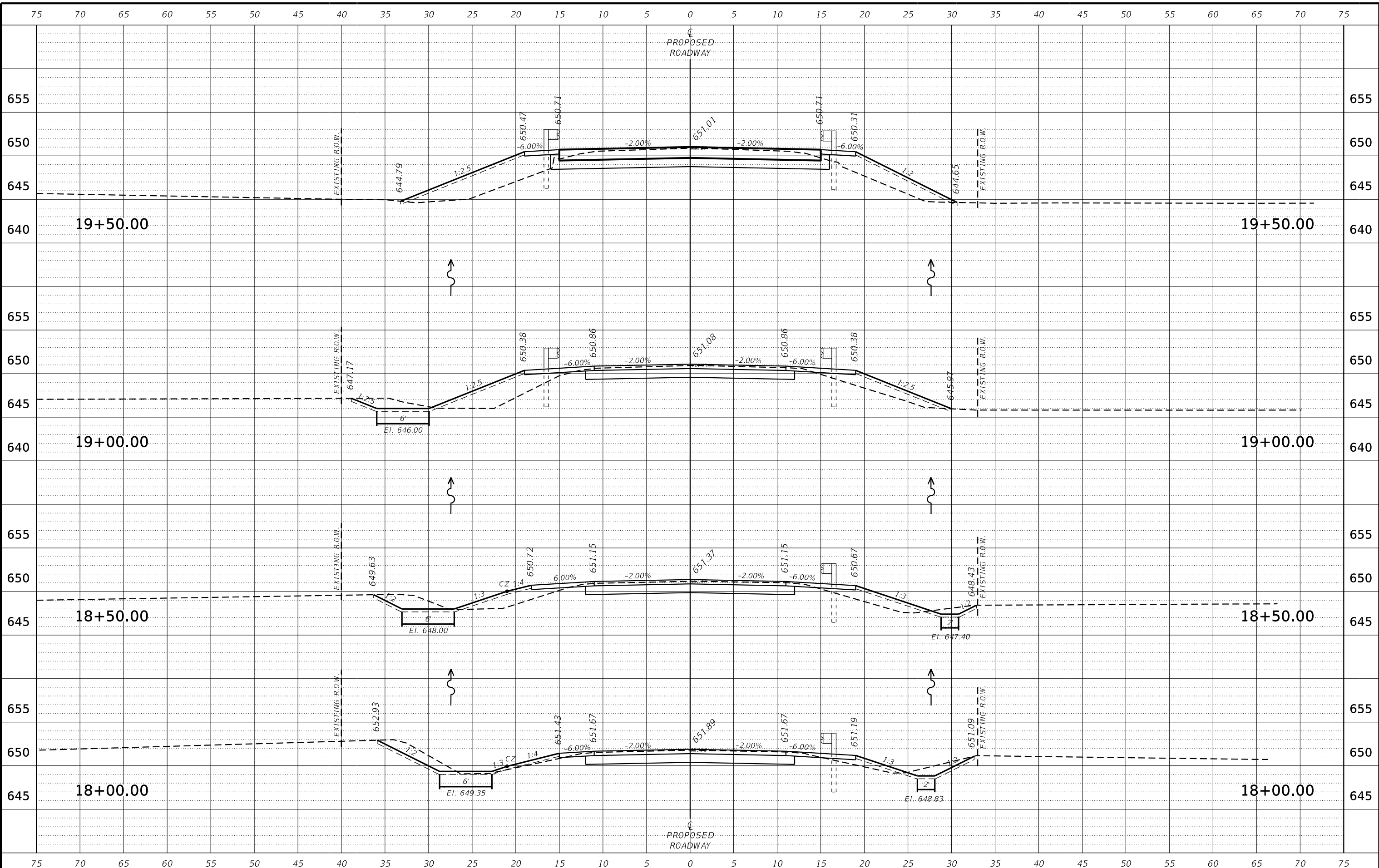
**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

CROSS SECTIONS
SCALE: 1" = 10'-0"
SHEET NO. 1 OF 6 SHEETS
STA. 16+50.00 TO STA. 17+50.00

CO. HWY. 8	SECTION 09-00217-00-BR	COUNTY BUREAU	TOTAL SHEETS 43	SHEET NO. 36
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

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CHECKED -	BKC	REVISED -	

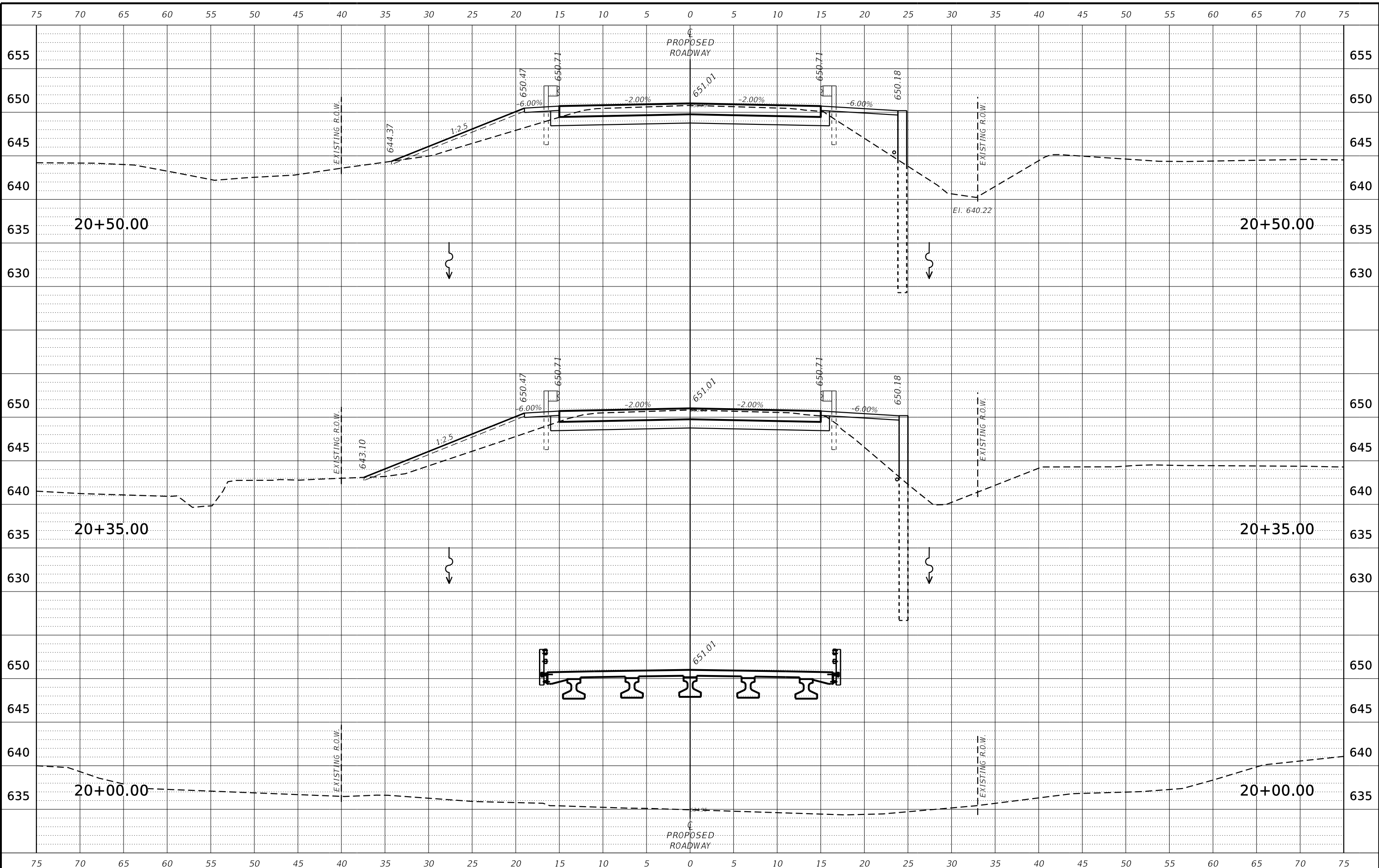
**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

CROSS SECTIONS
SCALE: 1" = 10'-0"
SHEET NO. 2 OF 6 SHEETS
STA. 18+00.00 TO STA. 19+50.00

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	37
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

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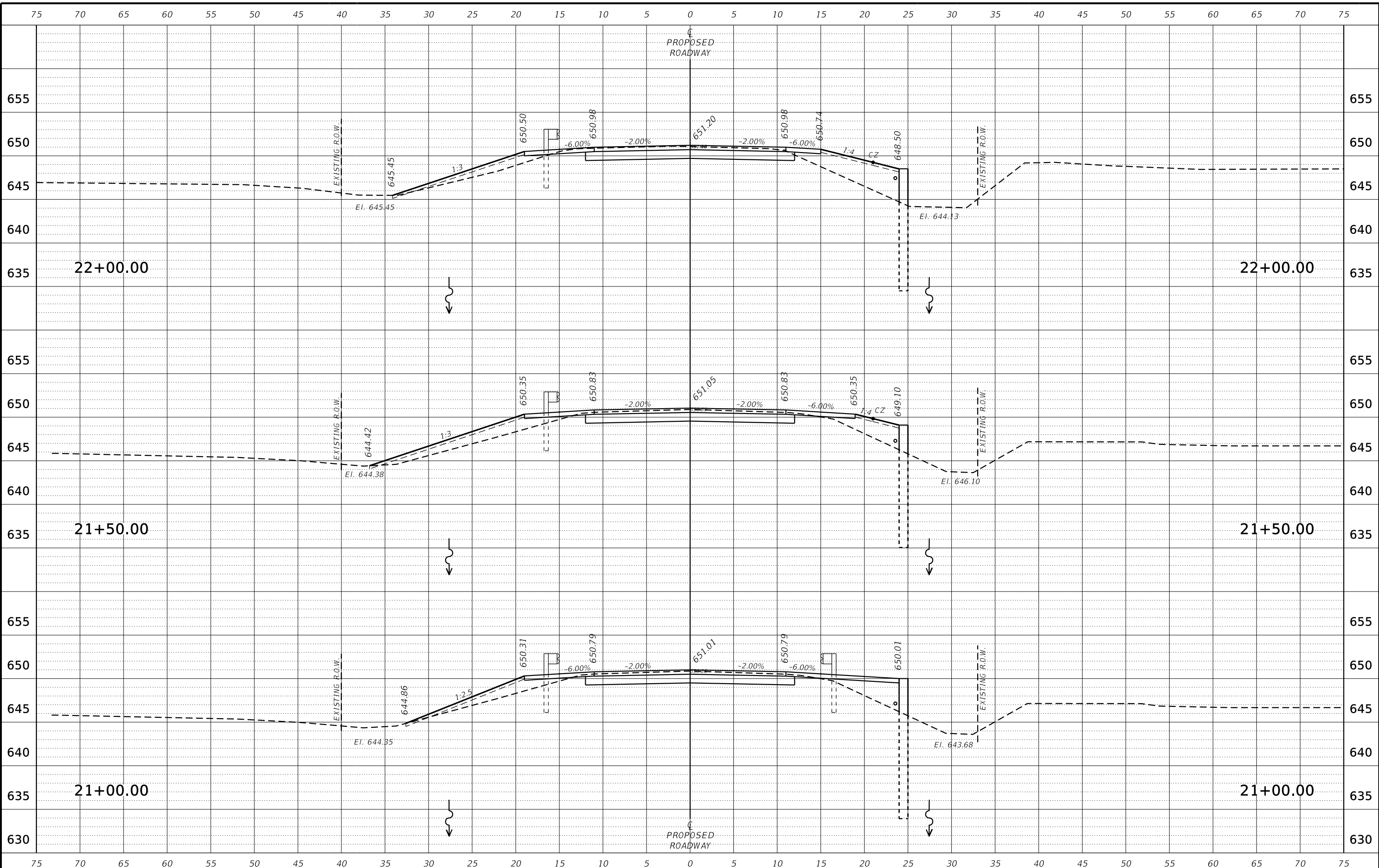
**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

CROSS SECTIONS
SCALE: 1" = 10'-0" SHEET NO. 3 OF 6 SHEETS STA. 19+65.00 TO STA. 20+50.00

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	38
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

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DRAWN - GBG	REVISED -
CHECKED - BKC	REVISED -

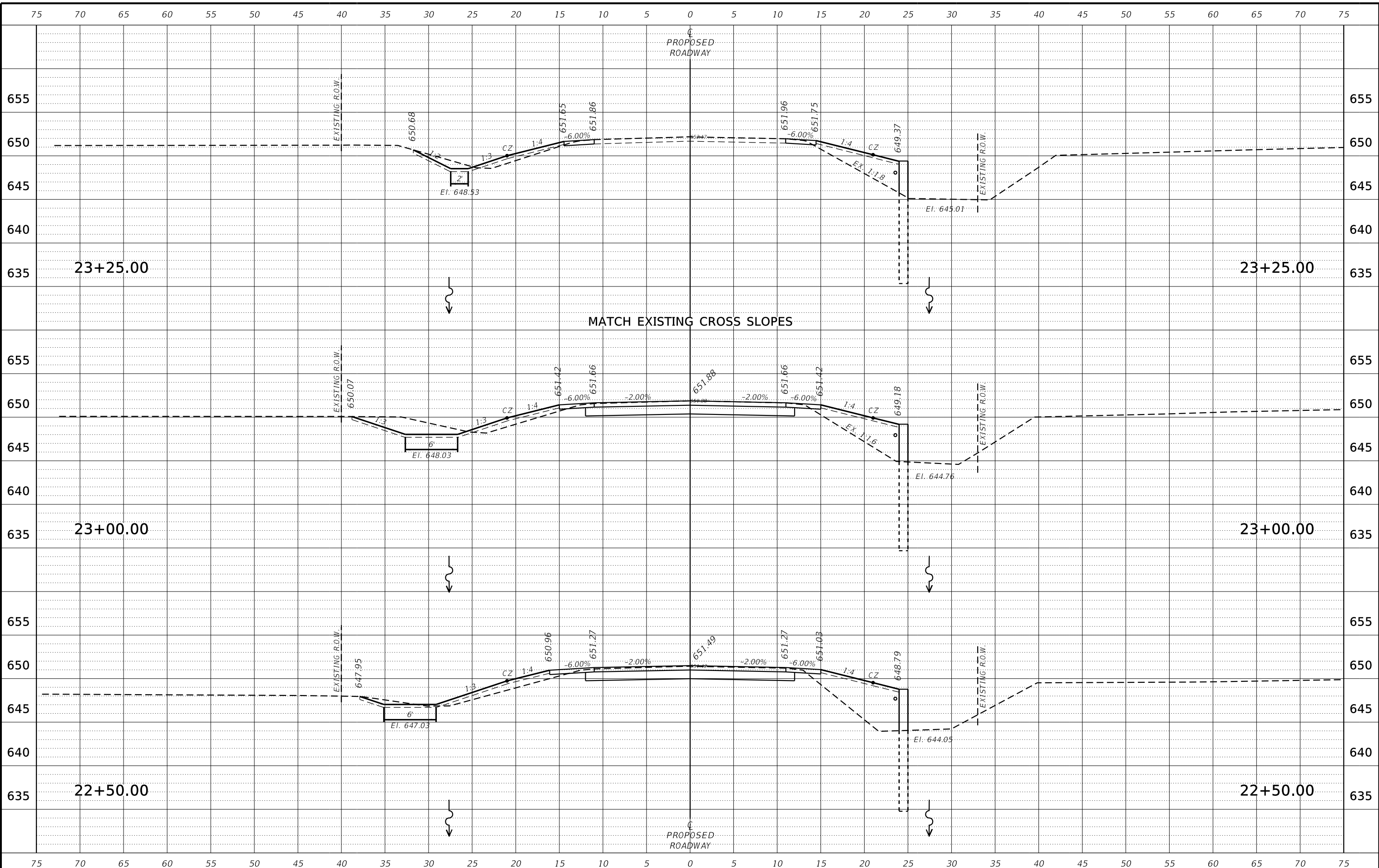
**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

CROSS SECTIONS
SCALE: 1" = 10'-0" SHEET NO. 4 OF 6 SHEETS STA. 21+00.00 TO STA. 22+00.00

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	39
CONTRACT# 87737			WHA# 1198D13	
ILLINOIS		FED. AID PROJECT L9CN(178)		

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DRAWN - GBG	REVISÉ -
CHECKED - BKC	REVISÉ -

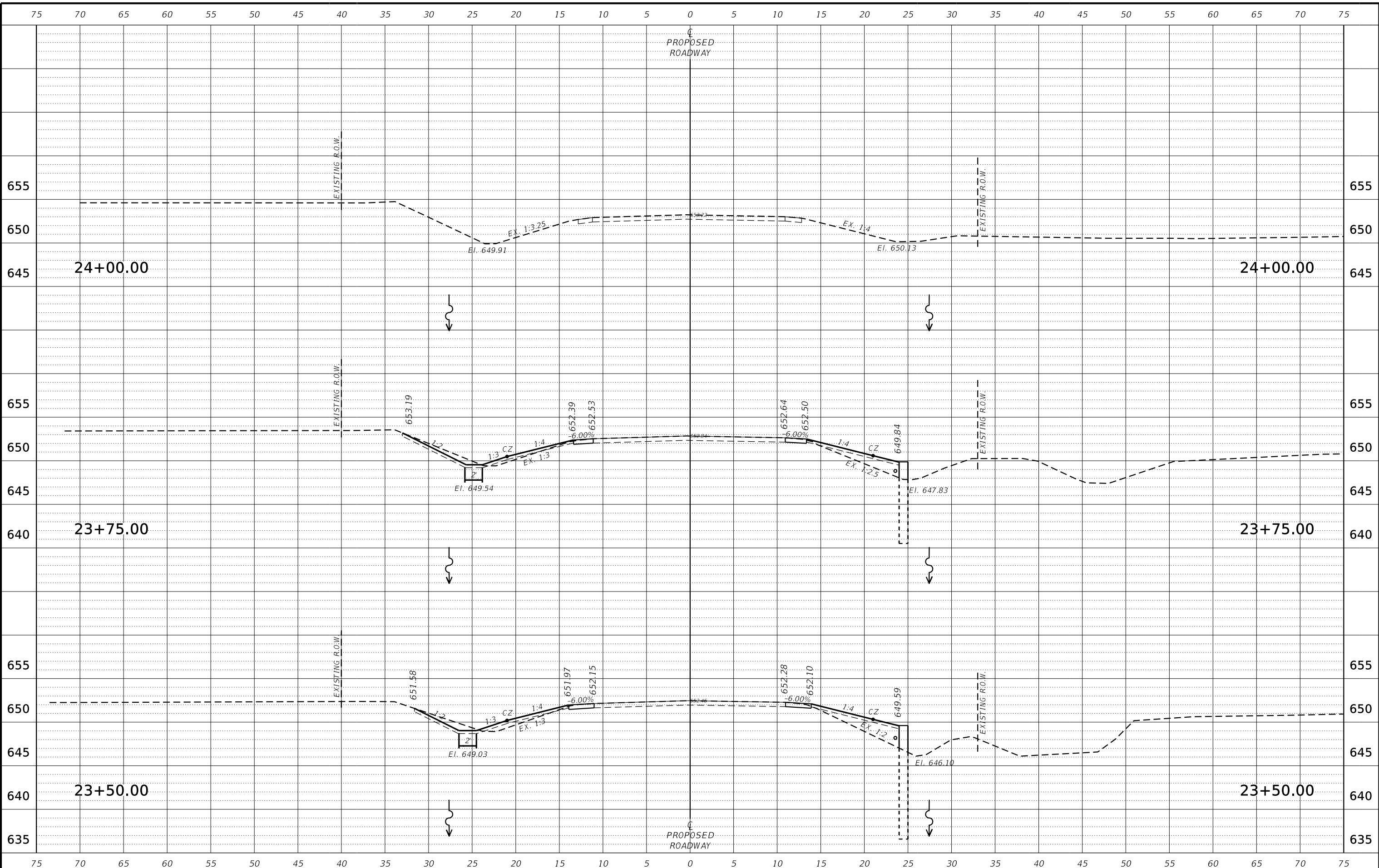
**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

CROSS SECTIONS
SCALE: 1" = 10'-0" SHEET NO. 5 OF 6 SHEETS STA. 22+50.00 TO STA. 23+25.00

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	40
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

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CHECKED - GFS	REVISED -
DRAWN - GBG	REVISED -
CHECKED - BKC	REVISED -

**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

CROSS SECTIONS
SCALE: 1" = 10'-0" SHEET NO. 6 OF 6 SHEETS STA. 23+50.00 TO STA. 24+00.00

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	41
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

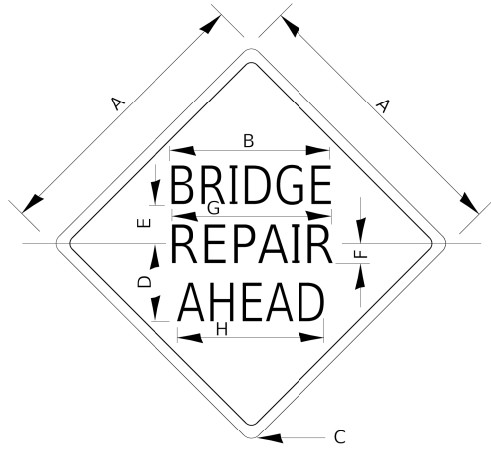
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PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	FILE NAME		

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

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ILLINOIS STANDARD W21-I102



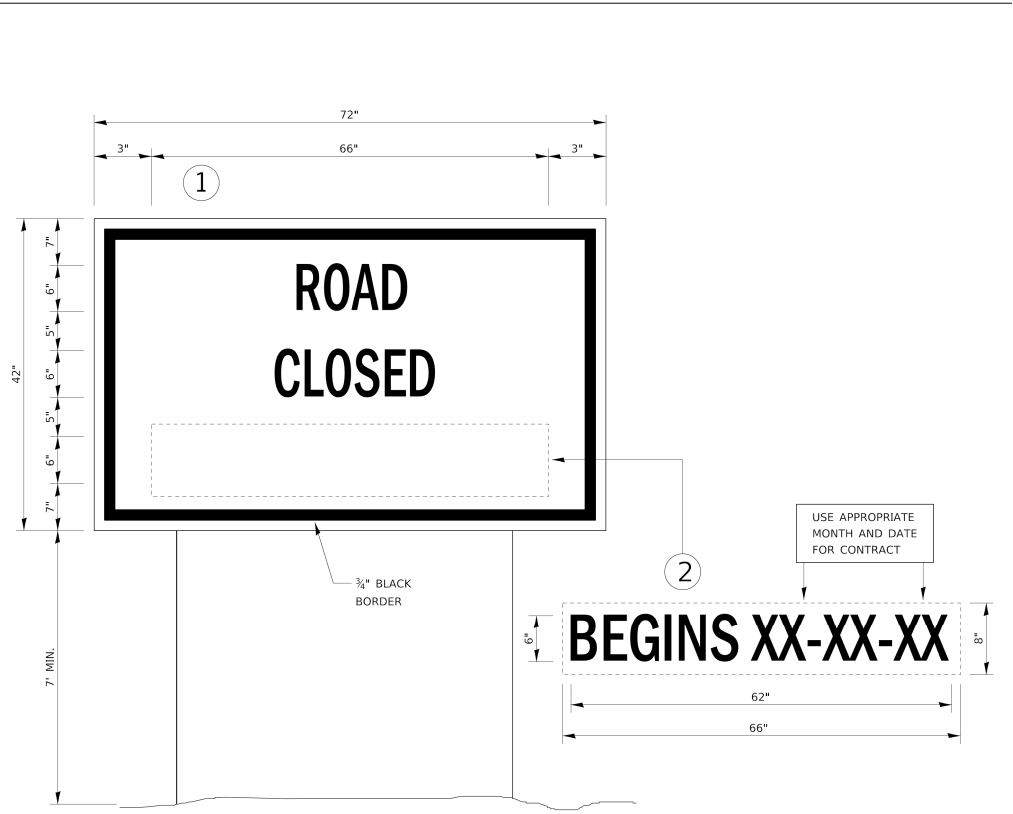
COLOR: LEGEND AND BORDER BACKGROUND BLACK ORANGE NON-REFLECTORIZED REFLECTORIZED

SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	H
36 x 36	36.0	22.3	2.25	10.8	5.6	3.0	21.9	20.7
48 x 48	48.0	26.0	3.0	14.5	7.5	3.5	25.5	24.1

SIGN SIZE	SERIES			MARGIN	BORDER	BLANK STD
	LINES					
	1	2	3			
36 x 36	5C	5C	5C	0.6	0.8	B4-36D
48 x 48	7C	7C	7C	0.8	1.2	B4-48D

ALL DIMENSIONS IN INCHES.

701-5



TEMPORARY INFORMATION SIGNING

- NOTES:**
- USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
 - ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
 - ERECT SIGN (1) WITH INSTALLED PANEL (2) A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE ROAD CLOSURE.
 - REMOVE PANEL (2) ON THAT DATE.
 - SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
 - WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL (2) WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

720-10



DESIGNED	-	GBG	REVISED	-
CHECKED	-	GFS	REVISED	-
DRAWN	-	GBG	REVISED	-
CHECKED	-	BKC	REVISED	-

**BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00**

IDOT DISTRICT 3 STANDARDS
SHEET NO. 1 OF 2 SHEETS

CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	42
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		

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PROFILE	SURVEYED	BY	DATE
	GRADES CHECKED		
	STRUCTURE NOT AT THIS OFFICE		
NO.			

PLAN	SURVEYED	BY	DATE
	ALIGNED		
	ADJUSTED		
NO.			

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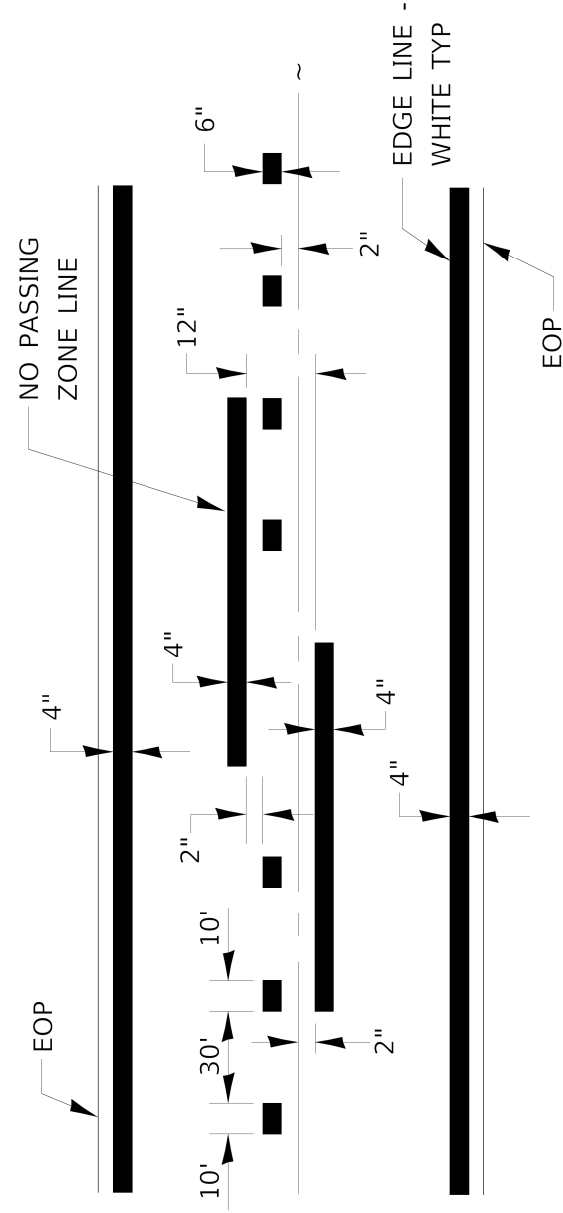
DESIGNED - GBG	REVISED -
CHECKED - GFS	REVISED -
DRAWN - GBG	REVISED -
CHECKED - BKC	REVISED -

BUREAU COUNTY
C.H. 8 (S. WYANET-WALNUT ROAD)
OVER MAPLE GROVE CREEK
STATION 20+00

IDOT DISTRICT 3 STANDARDS

SHEET NO. 2 OF 2 SHEETS

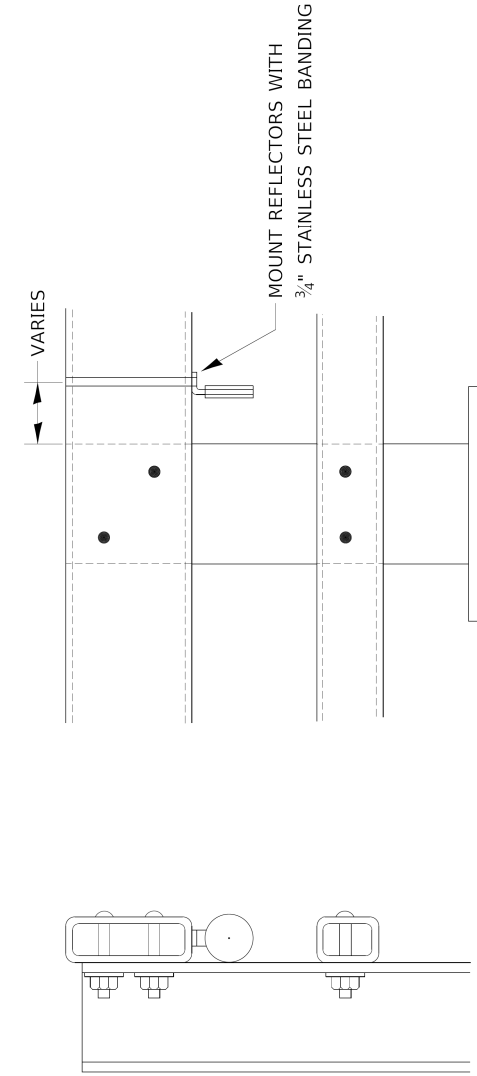
CO. HWY.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8	09-00217-00-BR	BUREAU	43	43
CONTRACT# 87737		WHA# 1198D13		
ILLINOIS		FED. AID PROJECT L9CN(178)		



CENTERLINE & NO PASSING
ZONE LINES - YELLOW

PAVEMENT MARKING

780-8



NOTES

- REFLECTORS SHALL MEET THE REQUIREMENTS OF ARTICLE 1097.03 OF THE STANDARD SPECIFICATIONS.
- FURNISHING AND INSTALLING THE COMPLETE REFLECTOR UNIT WILL BE PAID AT THE CONTRACT UNIT PRICE EACH FOR GUARD RAIL MARKERS.

782-3

REFLECTOR MOUNTING DETAIL FOR STEEL RAIL