

11-05-2021 LETTING ITEM 082

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED SURFACE TRANSPORTATION PROGRAM - BRIDGE

C.H. 12 OVER LAKE FORK CREEK
SECTION 17-00091-01-BR
PROJECT 21V4 (989)
BRIDGE REHABILITATION
LOGAN COUNTY
C-96-065-21

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	1
		ILLINOIS	CONTRACT NO. 93776	

INDEX OF SHEETS

- 1 - TITLE SHEET
- 2-4 - SUMMARY OF QUANTITIES
- 5-6 - QUANTITY SCHEDULES
- 7 - GUARDRAIL PLAN
- 8 - GENERAL NOTES & DETAILS
- 9 - PLAN & PROFILE
- 10-17 - STRUCTURE PLANS
- 18-21 - EXISTING STRUCTURE PLANS
- 22-27 - CROSS SECTIONS

STANDARDS

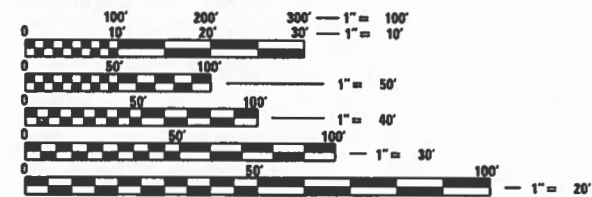
- STANDARD 515001-04
- STANDARD 630001-12
- STANDARD 630301-09
- STANDARD 701901-08
- STANDARD BLR 21-9
- STANDARD BLR 23-4
- STANDARD BLR 27-1

LIST OF UTILITIES

FRONTIER COMMUNICATIONS
117 W. JEFFERSON ST.
MT. PULASKI, IL 62548
217-792-5732
217-851-0036

AMEREN ELECTRIC
NATHAN HILL
618-301-5327

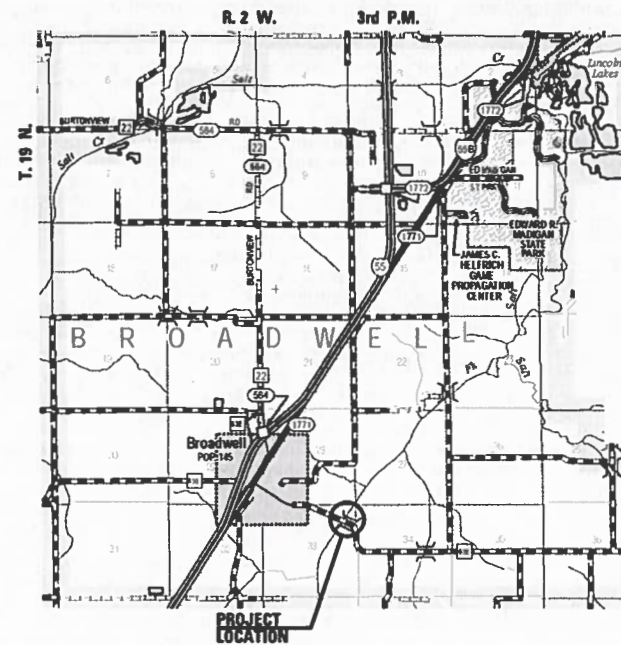
LAND SECTION - 33
LAND QUARTER SECTION - NORTHEAST
FUNCTIONAL CLASSIFICATION: MINOR COLLECTOR
A.D.T. - 300 (2020)
A.D.T. - 251 (2032)
30 M.P.H. DESIGN SPEED



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.

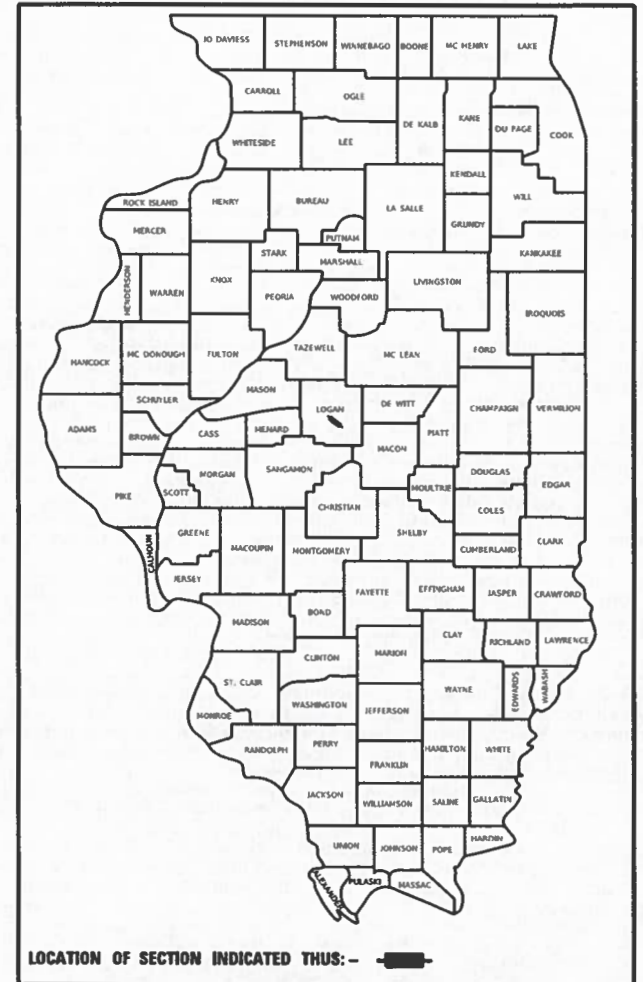
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

CONTRACT NO. 93776



LOCATION PLAN

GROSS LENGTH = 450.00 FT. = 0.085 MILE



LOCATION OF SECTION INDICATED THUS: -

EXISTING STRUCTURE: CENTERLINE STA. 10+00.00. 3 SPANS OF PRESTRESSED CONCRETE DECK BEAMS ON PILE BENT ABUTMENTS AND PIERS, 155'-7" BACK TO BACK OF ABUTMENTS, 28'-0" ROADWAY. EXISTING STRUCTURE NO. 054-3052

PROPOSED STRUCTURE: PROPOSED STRUCTURE REPLACEMENT: THREE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAMS (21') ON EXISTING OPEN ABUTMENTS AND PILE BENT PIERS. 155'-7" BK-BK ABUTMENTS, 28'-0" OUT-OUT DECK, STEEL RAILING TYPE S1, 10° SKEW LT. FWD. PROPOSED STRUCTURE NO. 054-3052

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 7/26, 20 21
[Signature]
COUNTY ENGINEER

PASSED 8/5, 20 21
[Signature]
DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review
8/5, 20 21
[Signature]
REGION FOUR ENGINEER



Christopher P. Kordus 7/26/21
Expiration Date 11/30/2021

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY	BRIDGE
				0004	0013
				S.N.	054-3052
Δ 20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25	
20200100	EARTH EXCAVATION	CU YD	14	14	
20300100	CHANNEL EXCAVATION	CU YD	400	400	
20400800	FURNISHED EXCAVATION	CU YD	557	557	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50	50	
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	490	490	
28200200	FILTER FABRIC	SQ YD	654	654	
35100100	AGGREGATE BASE COURSE, TYPE A	TON	13	13	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	623	623	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	110	110	
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	41	41	
40604000	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "C", N50	TON	136	136	
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	164	164	
50101700	REMOVAL OF EXISTING SUPERSTRUCTURES NO. 1	EACH	1		1

* SEE SPECIAL PROVISIONS
Δ SPECIALTY ITEMS

FILE NAME =	USER NAME = \$USERS	DESIGNED -	REVISED -		Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	SUMMARY OF QUANTITIES			C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILEL\$	DRAWN -	REVISED -	12						17-00091-01-BR	LOGAN	27	2	
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	PLOT DATE = \$DATE\$	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY	BRIDGE
				0004 S.N.	0013 054-3052
50102400	CONCRETE REMOVAL	CU YD	3.2		3.2
50200100	STRUCTURE EXCAVATION	CU YD	20		20
50300225	CONCRETE STRUCTURES	CU YD	3.8		3.8
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	4268		4268
50800105	REINFORCEMENT BARS	POUND	230		230
Δ 50900205	STEEL RAILING, TYPE S1	FOOT	312		312
51500100	NAME PLATES	EACH	1		1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	481		481
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	7.3	7.3	
Δ 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	100	100	
Δ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4	4	
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	460	460	
67100100	MOBILIZATION	L SUM	1	1	

* SEE SPECIAL PROVISIONS
Δ SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				ROADWAY	BRIDGE
				0004 S.N.	0013 054-3052
Δ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
* X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5	0.5	
* X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1	
* Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	28		28
* Z0010400	CLEANING BRIDGE SEATS	SQ FT	313		313
* Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	24		24
* Z0049790	RELOCATING NAME PLATES	EACH	1		1

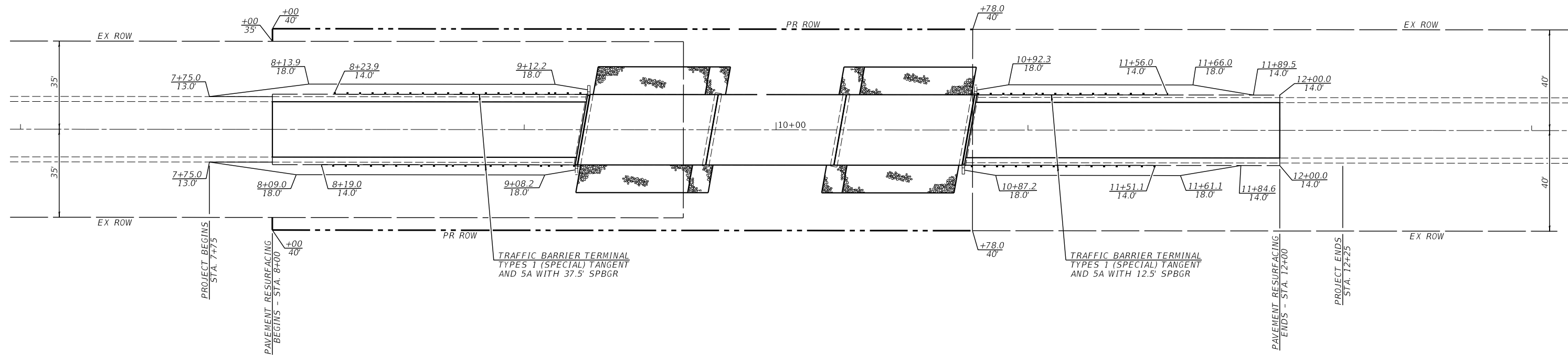
* SEE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	 Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	SUMMARY OF QUANTITIES			C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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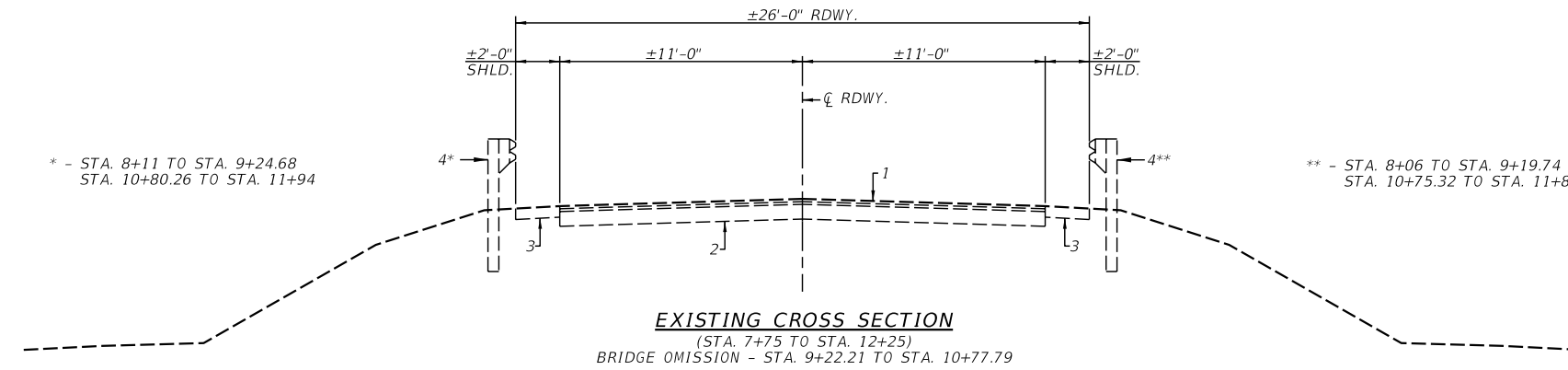
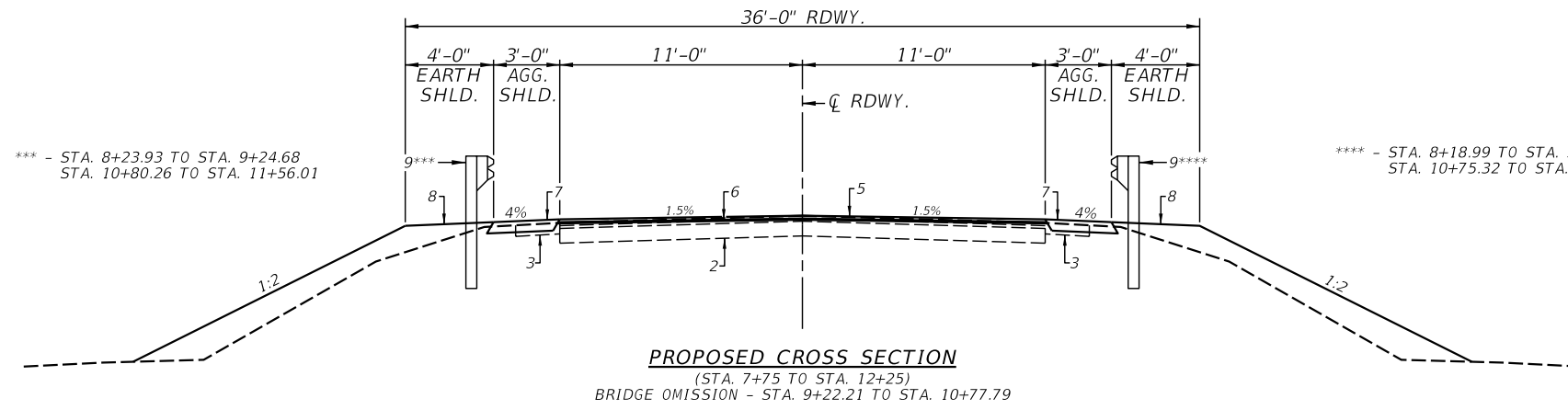
GUARDRAIL SCHEDULE					
LOCATION	63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	63000003 STEEL PLATE BEAM GUARDRAIL, TYPE A 9 FOOT POSTS	63100075 TRAFFIC BARRIER TERMINAL, TYPE 5A	72501000 TERMINAL MARKER DIRECT APPLIED	63200310 GUARDRAIL REMOVAL
	EACH	FOOT	EACH	EACH	FOOT
STA. 8+18.99 TO STA. 8+68.99 RT.	1				
STA. 8+68.99 TO STA. 9+06.49 RT.		37.5			
STA. 9+06.49 TO STA. 9+19.74 RT.			1		
STA. 8+23.93 TO STA. 8+73.93 LT.	1				
STA. 8+73.93 TO STA. 9+11.43 LT.		37.5			
STA. 9+11.43 TO STA. 9+24.68 LT.			1		
STA. 10+75.32 TO STA. 10+88.57 RT.			1		
STA. 10+88.57 TO STA. 11+01.07 RT.		12.5			
STA. 11+01.07 TO STA. 11+51.07 RT.	1				
STA. 10+80.26 TO STA. 10+93.51 LT.			1		
STA. 10+93.51 TO STA. 11+06.01 LT.		12.5			
STA. 11+06.01 TO STA. 11+56.01 LT.	1				
STA. 8+18.99 RT.				1	
STA. 8+23.93 LT.				1	
STA. 11+51.07 RT.				1	
STA. 11+56.01 LT.				1	
STA. 8+06 TO STA. 8+21 RT.					115
STA. 8+11 TO STA. 8+26 LT.					115
STA. 10+83 TO STA. 11+88 RT.					115
STA. 10+88 TO STA. 11+93 LT.					115
TOTAL	4	100	4	4	460

HOT MIX ASPHALT				
LOCATION	40600982 HMA SURFACE REMOVAL BUTT JOINT	40604000 HMA SURFACE COURSE 1L-9.5 FG, MIX "C" N50	40603200 POLYMERIZED HMA BINDER COURSE, 1L-4.75, N50	40600290 BITUMINOUS MATERIALS (TACK COAT)
	SQ YD	TON	TON	POUND
AREA 1				
STA. 8+00 TO STA. 8+20	49			
STA. 11+75 TO STA. 12+00	61			
STA. 8+00 TO STA. 9+22.21		59	11	203
STA. 9+22.21 TO STA. 10+77.79		54	20	217
STA. 10+77.79 TO STA. 12+00		23	10	203
TOTAL	110	136	41	623



GUARDRAIL PLAN
 0 20 40
 SCALE: 1" = 20'

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED -	REVISED -	 Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939	GUARDRAIL PLAN			C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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		DATE -	REVISED -						FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



GENERAL NOTES

WHERE SECTION OR SUBSECTION STONES ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH STONES ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR REFERENCED THEIR LOCATION.

SEEDING: FERTILIZER NUTRIENTS SHALL BE APPLIED AT A RATIO OF 1:1:1 AND AT A RATE OF 90 POUNDS PER ACRE FOR EACH NUTRIENT.

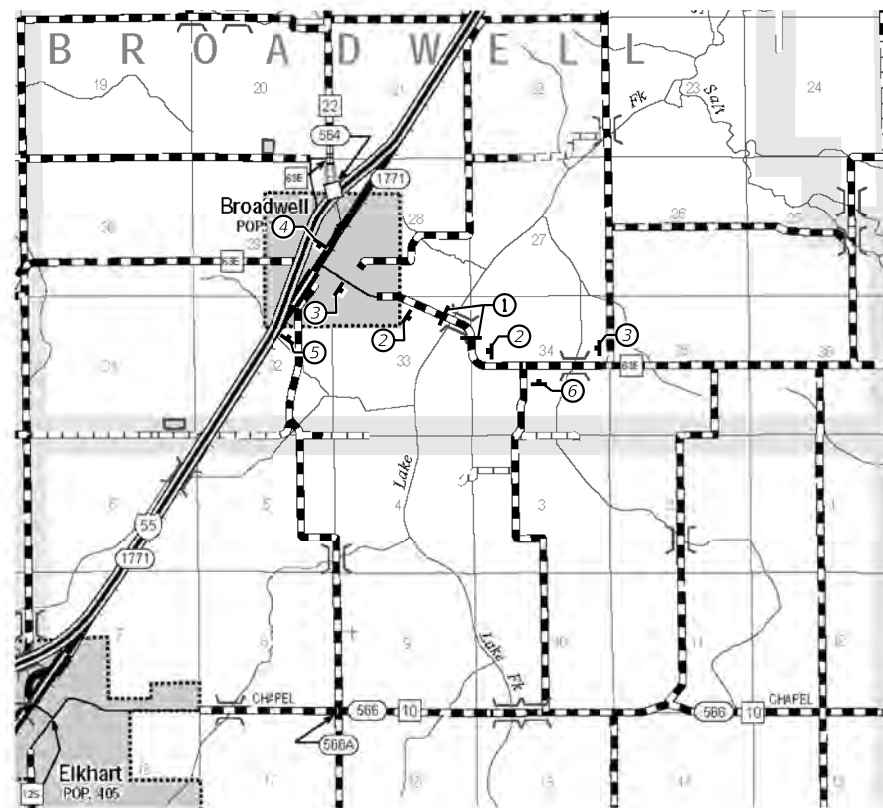
MULCH SHALL BE APPLIED AT THE RATE OF 2 TONS PER ACRE. AREAS TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER. ALL DISTURBED EARTH SURFACES BEYOND ROW IS THE RESPONSIBILITY OF AND COST TO THE CONTRACTOR. NO COMMITMENTS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES.

BITUMINOUS MATERIALS (TACK COAT)	0.05 LB./SQ. FT.
AGGREGATE MATERIAL	1.9 TON/CU. YD.
RIPRAP	1.5 TON/CU. YD.
NITROGEN FERTILIZER NUTRIENT	90 LBS./ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LBS./ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS./ACRE
HMA BINDER & SURFACE	0.056 TON/SQ. YD./IN.

PAVEMENT LEGEND

- 1 - EX HMA AND OIL & CHIP OVERLAY
- 2 - EX AGGREGATE BASE COURSE
- 3 - EX EARTH SHOULDER
- 4 - EX GUARDRAIL
- 5 - PR HMA SURFACE COURSE, MIX 'C' IL-19.0 N50, 1 1/2" MIN.
- 6 - PR POLYMERIZED HMA BINDER COURSE, IL-4.75, N50 3/4"
- 7 - PR AGGREGATE SHOULDERS, TYPE B 6"
- 8 - PR EARTH SHOULDER
- 9 - PR GUARDRAIL

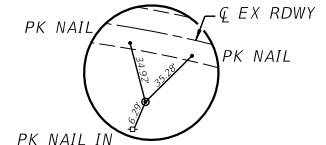
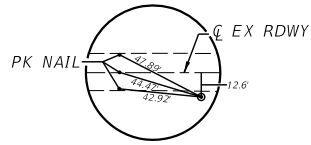
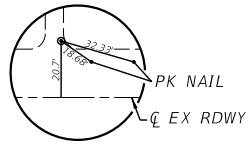


SIGN & BARRICADE LOCATION PLAN

- LEGEND**
- ① TYPE III BARRICADE WITH "ROAD CLOSED" R11-2-4830
 - ② ROAD CLOSED 500 FT
 - ③ ROAD CLOSED 1 MILE AHEAD
 - ④ ROAD CLOSED 1 MILE AHEAD WITH W1-6L
 - ⑤ ROAD CLOSED 1 MILE AHEAD WITH W1-6R
 - ⑥ ROAD CLOSED 0.5 MILES AHEAD WITH W1-6L

MIXTURE USE(S):	BINDER	SURFACE
PG:	SBS PG 70-28	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 4.75	IL-9.5FG
FRICTION AGGREGATE	N/A	MIX "C"
QUALITY MANAGEMENT	QC/QA	QC/QA

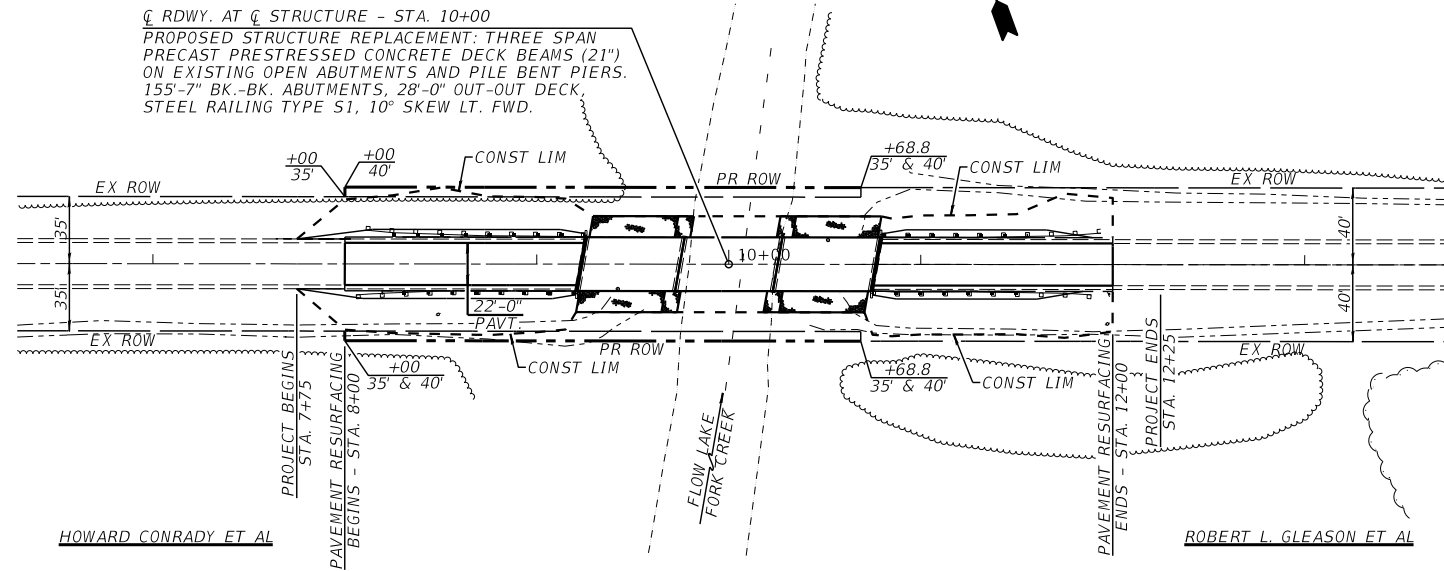
SECTION 33, T. 19 N., R. 3 W., 3rd P.M.



TIE #1
CP#3 STA. 3+31
(#5 REBAR)
(1237171.1250, 2503230.3570
ELEV. 565.60)

TIE #2
CP#1 STA. 9+16.3, 12.5' RT.
(#5 REBAR)
(123906.5937, 2503753.2942
ELEV. 566.77)

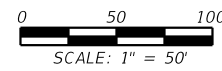
RDWY. AT C STRUCTURE - STA. 10+00
PROPOSED STRUCTURE REPLACEMENT: THREE SPAN
PRECAST PRESTRESSED CONCRETE DECK BEAMS (21")
ON EXISTING OPEN ABUTMENTS AND PILE BENT PIERS.
155-7" BK.-BK. ABUTMENTS, 28'-0" OUT-OUT DECK,
STEEL RAILING TYPE S1, 10° SKEW LT. FWD.



HOWARD CONRADY ET AL

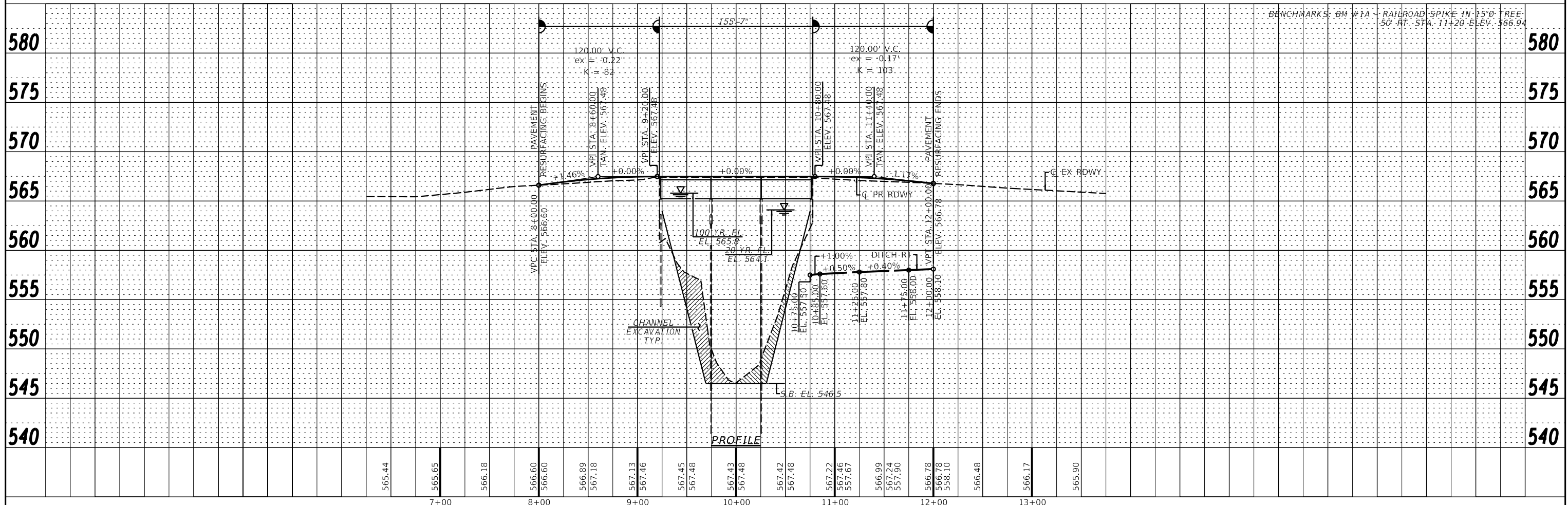
ROBERT L. GLEASON ET AL

PLAN



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

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

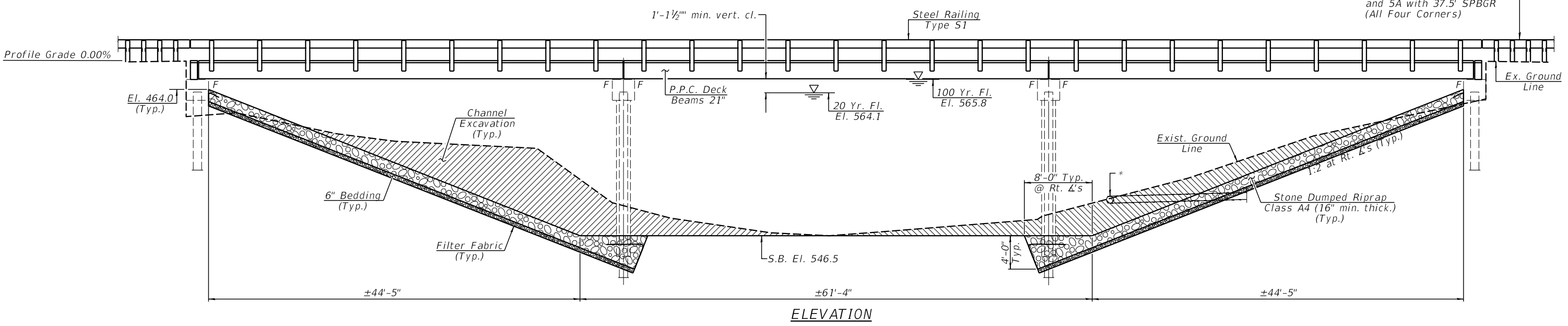


PROFILE

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED -	<p>Veenstra & Kimm, Inc. Springfield, IL. Phone: (217)544-8033 IL. Design Firm No. 184-001939</p>	PLAN & PROFILE		C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
FILEL		CHECKED -	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	12	17-00091-01-BR	LOGAN	27	9
		DRAWN -	REVISED -					CONTRACT NO. 93776					
		CHECKED -	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

Existing Structure: Centerline Sta. 10+00.00, 3 Spans of Prestressed Concrete Deck Beams on Pile Bent Abutments and Piers, 155'-7" Back to Back of Abutments, 28'-0" Roadway.

No Salvage.

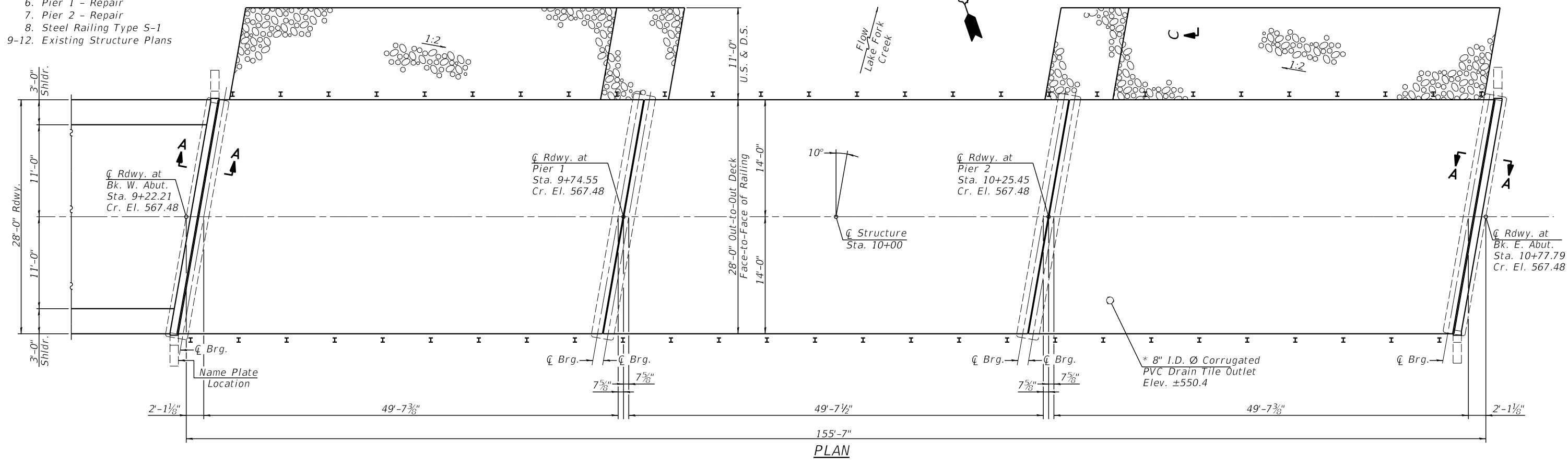


ELEVATION

INDEX OF SHEETS

- 1. General Plan & Elevation
- 2. General Data
- 3. 21" x 48" PPC Deck Beam
- 4. 21" x 48" PPC Deck Beam Details
- 5. Abutments
- 6. Pier 1 - Repair
- 7. Pier 2 - Repair
- 8. Steel Railing Type S-1
- 9-12. Existing Structure Plans

* Existing Corrugated PVC Drain Tile. Do not damage and adjust to drain on top of proposed riprap. Cost to adjust length of field tile is included in the cost of Stone Dumped Riprap, Class A4.



PLAN

See Sheet 2 for Sections A-A and C-C.



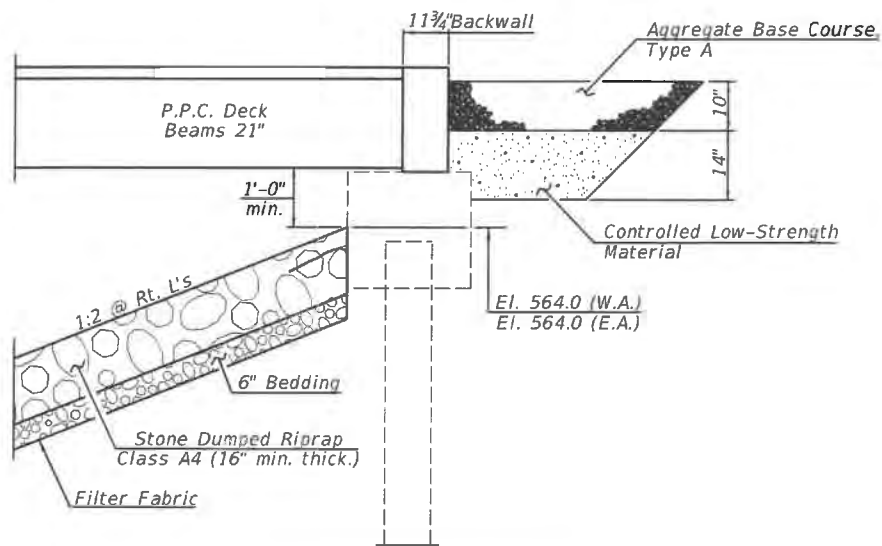
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	CHECKED - TRC	REVISED -
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PLOT DATE =	CHECKED - TRC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

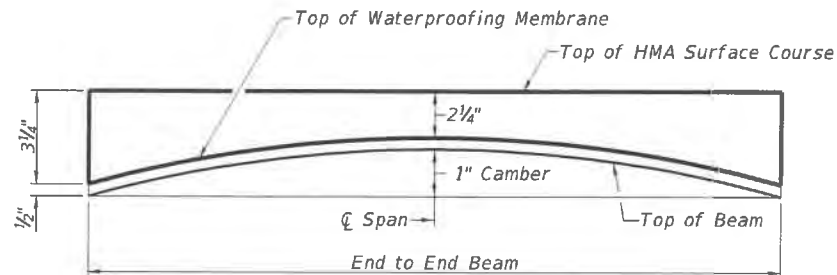
GENERAL PLAN & ELEVATION
STRUCTURE NO. 054-3052

SHEET NO. 1 OF 8 SHEETS

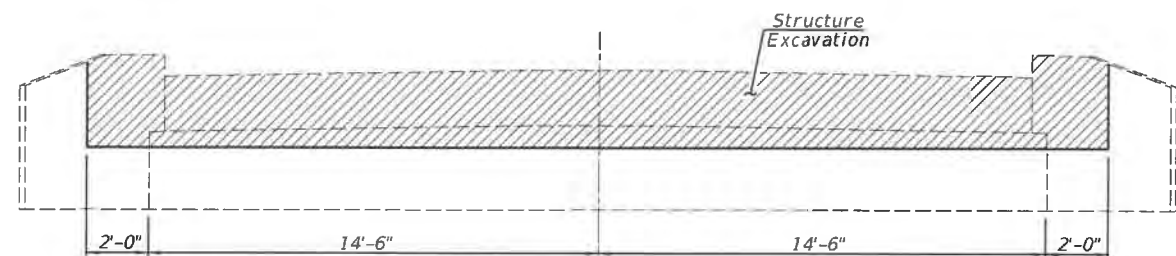
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	10
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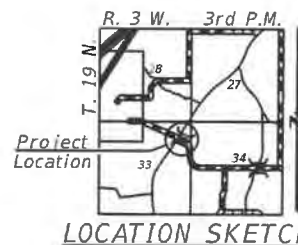
SECTION THRU ABUTMENT



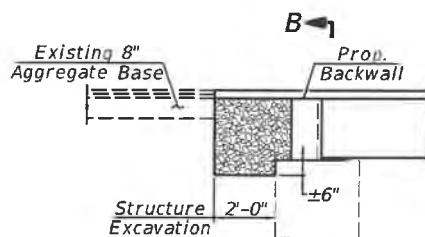
HMA SURFACE COURSE PROFILE & ANTICIPATED CAMBER DIAGRAM SPANS 1-3



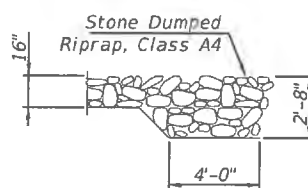
SECTION B-B



LOCATION SKETCH



SECTION A-A



SECTION C-C (Upstream Side Only)

LAKE FORK CREEK
RE-BUILT 20 BY
LOGAN COUNTY
SECTION 17-00091-01-BR
CH-12 STA. 10+00.00
STR. NO. 054-3052 LOADING HL-93

NAME PLATE

(Standard 515001)

New Name Plate to be placed near existing name plate as directed by the Engineer.



I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "A.A.S.H.T.O. LRFD Bridge Design Specifications.

Thomas R. Casson 7-26-21
Expiration Date 11/30/2022

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		400	400
Stone Dumped Riprap, Class A4	Ton		490	490
Filter Fabric	Sq. Yd.		654	654
Aggregate Base Course, Type A	Ton	13		13
Bituminous Materials (Tack Coat)	Pound	217		217
Polymerized Hot-Mix Asphalt Binder Course, IL-4.75, N50	Ton	20		20
Hot-Mix Asphalt Surface Course, IL-9.5FG, Mix "C", N50	Ton	54		54
Removal of Existing Superstructures No. 1	Each	1		1
Concrete Removal	Cu. Yd.	3.2		3.2
Structure Excavation	Cu. Yd.	20		20
Concrete Structures	Cu. Yd.	3.8		3.8
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	4268		4268
Reinforcement Bars	Pound		230	230
Steel Railing, Type S-1	Foot	312		312
Name Plates	Each	1		1
Waterproofing Membrane System	Sq. Yd.	481		481
Controlled Low-Strength Material	Cu. Yd.		7.3	7.3
Asbestos Bearing Pad Removal	Each	28		28
Cleaning Bridge Seats	Sq. Ft.		313	313
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.		24	24
Relocating Name Plates	Each	1		1

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
Contractor shall be responsible for the protection and prevention of any longitudinal movement of all substructure units during the removal and replacement of the precast, prestressed concrete deck beams during construction. Cost of prevention and protection will be included in the unit cost of Removal of Existing Superstructures.
Contractor is responsible for the removal and disposal of any excess channel excavation not incorporated back into the project. The disposal of any excess material shall be in accordance with Article 202.03. Cost to dispose of excess excavation will be included in the unit cost of Channel Excavation.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.132 g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.224 g
Soil Site Class = D

LOADING HL-93 NEW CONSTRUCTION

Allow 50#/Sq. Ft. for future wearing surface.

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition.

DESIGN STRESSES

FIELD UNITS (NEW CONSTRUCTION)

f_c = 3,500 psi (Substructure)
f_y = 60,000 psi (Reinforcement)

FIELD UNITS (EXISTING CONSTRUCTION)

f_c = 3,500 psi (Substructure)
f_y = 40,000 psi (Reinforcement)

PRECAST PRESTRESSED UNITS

f_c = 6,000 psi
f_{ci} = 5,000 psi
f_{pu} = 270,000 psi (1/2"Ø low lax strands)
f_{pbt} = 201,960 psi (1/2"Ø low lax strands)



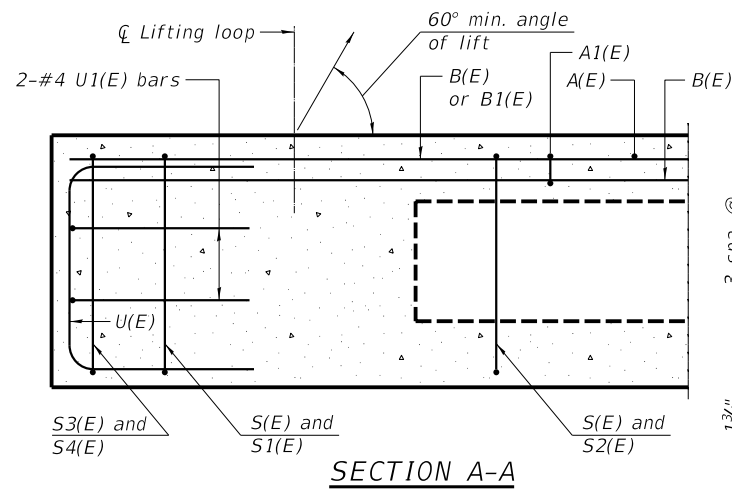
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PLOT SCALE *	CHECKED - TRC	REVISED -
PLOT DATE *	DRAWN - JRP	REVISED -
	CHECKED - TRC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

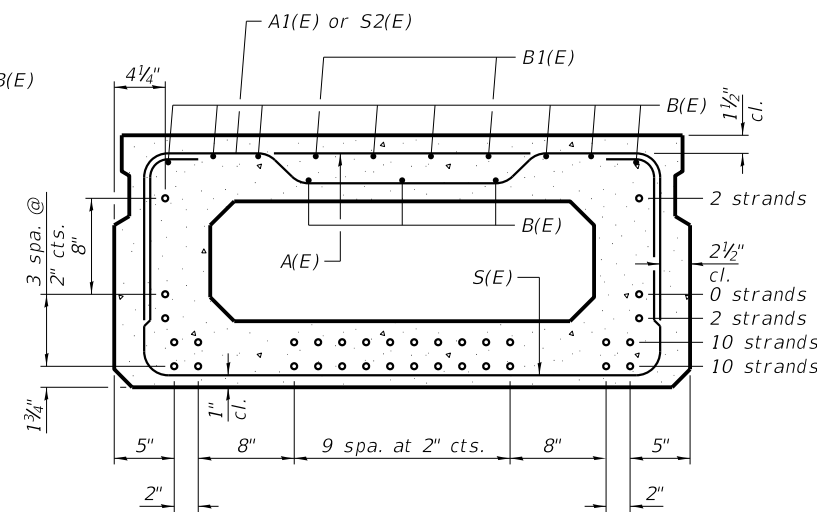
GENERAL DATA
STRUCTURE NO. 054-3052

SHEET NO. 2 OF 8 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	11
			CONTRACT NO. 93776	
ILLINOIS FED. AID PROJECT				

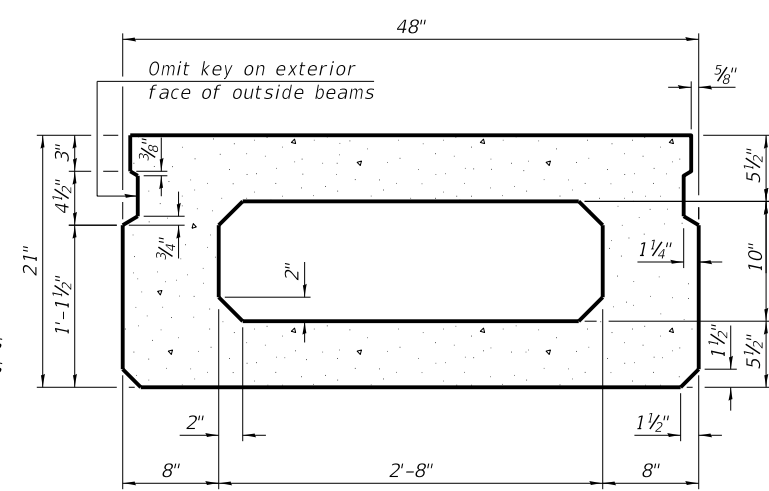


SECTION A-A



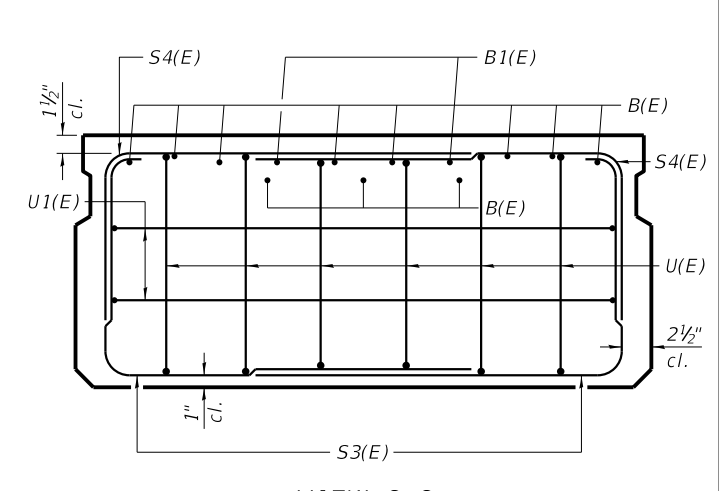
SECTION B-B

(Showing reinforcement and permissible strand locations)



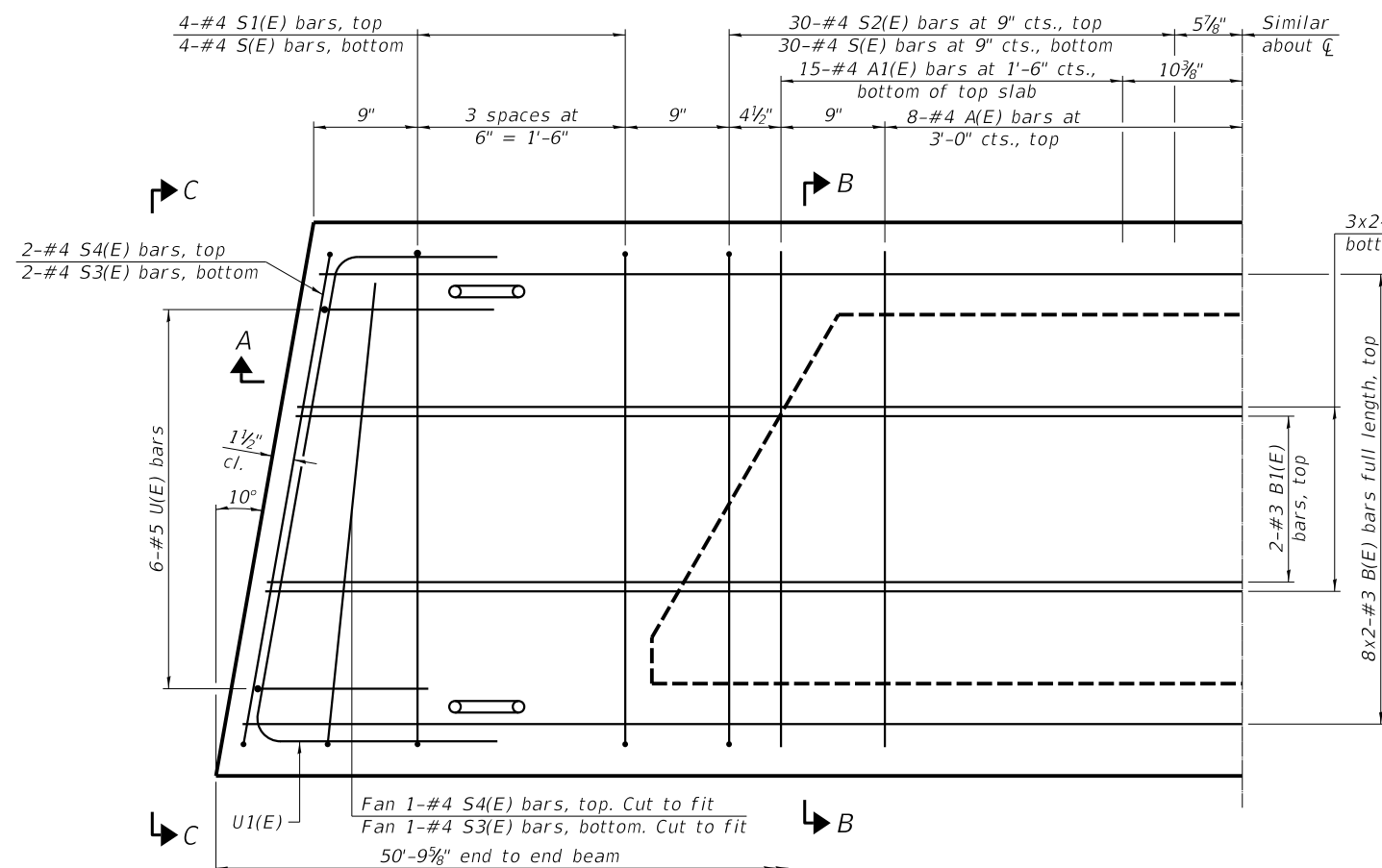
SECTION B-B

(Showing dimensions)

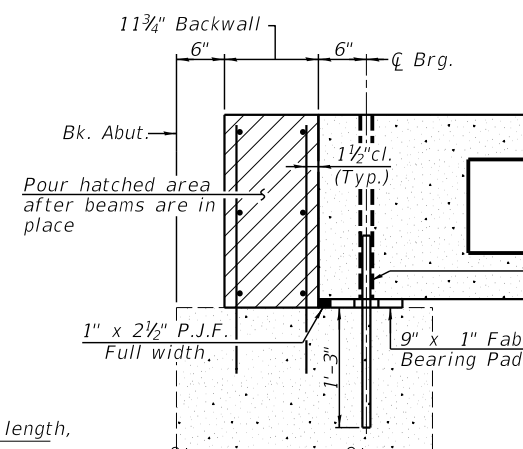


VIEW C-C

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

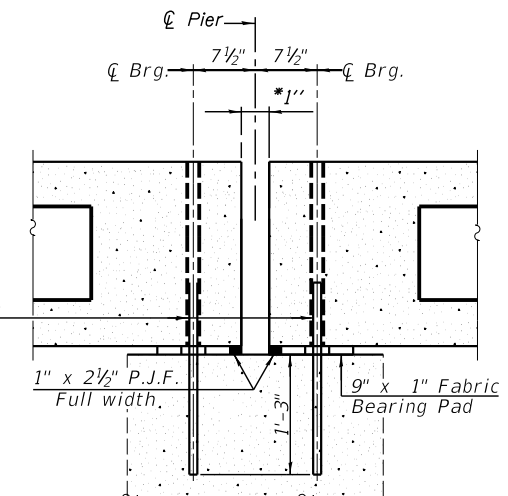


PLAN VIEW



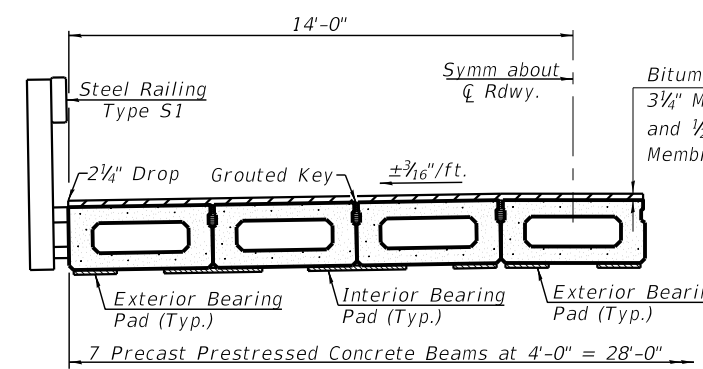
SECTION THRU ABUTMENT

(At Right Angles)



SECTION THRU PIER

(At Right Angles)



HALF CROSS SECTION

MINIMUM BAR LAP

#3 bar = 1'-6"

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	15	#4	3'-7"	—
A1(E)	30	#4	3'-10"	—
B(E)	22	#3	26'-1"	—
B1(E)	4	#3	10'-0"	—
S(E)	68	#4	7'-5"	U
S1(E)	8	#4	5'-11"	U
S2(E)	60	#4	6'-2"	U
S3(E)	6	#4	5'-6"	U
S4(E)	6	#4	4'-9"	U
U(E)	12	#5	4'-0"	U
U1(E)	4	#4	6'-9"	U

Note:
See sheet 4 of 8 for additional details and Bill of Material.

PD-2148-L

1-1-2020



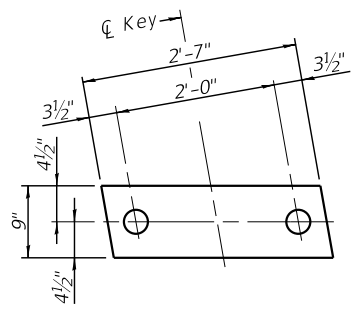
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PLOT SCALE =	CHECKED - TRC	REVISED -
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	CHECKED - TRC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

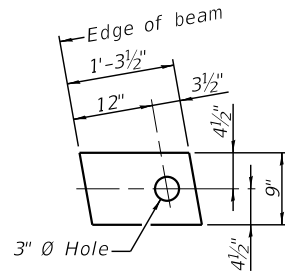
21" x 48" PPC DECK BEAM
STRUCTURE NO. 054-3052

SHEET NO. 3 OF 8 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	12
CONTRACT NO. 93776				
ILLINOIS FED. AID PROJECT				



FABRIC BEARING PAD
(Interior)

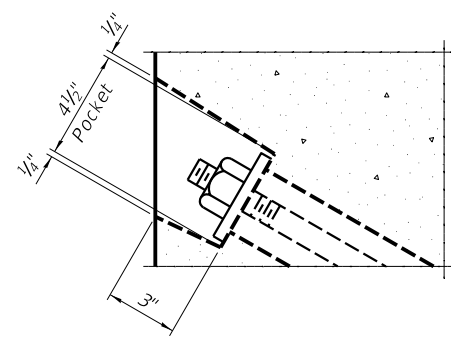


FABRIC BEARING PAD
(Exterior)

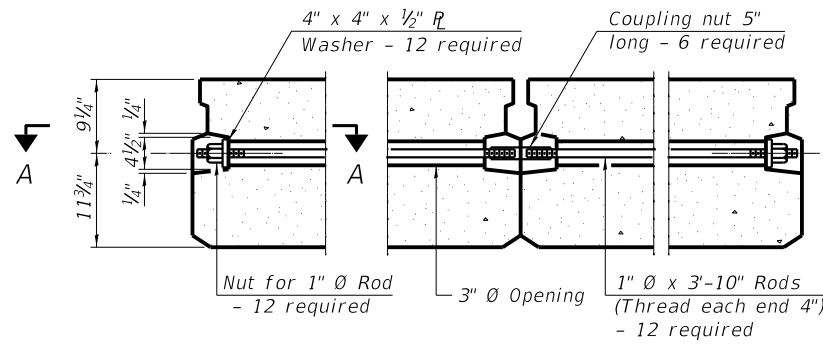
FIXED

Notes:

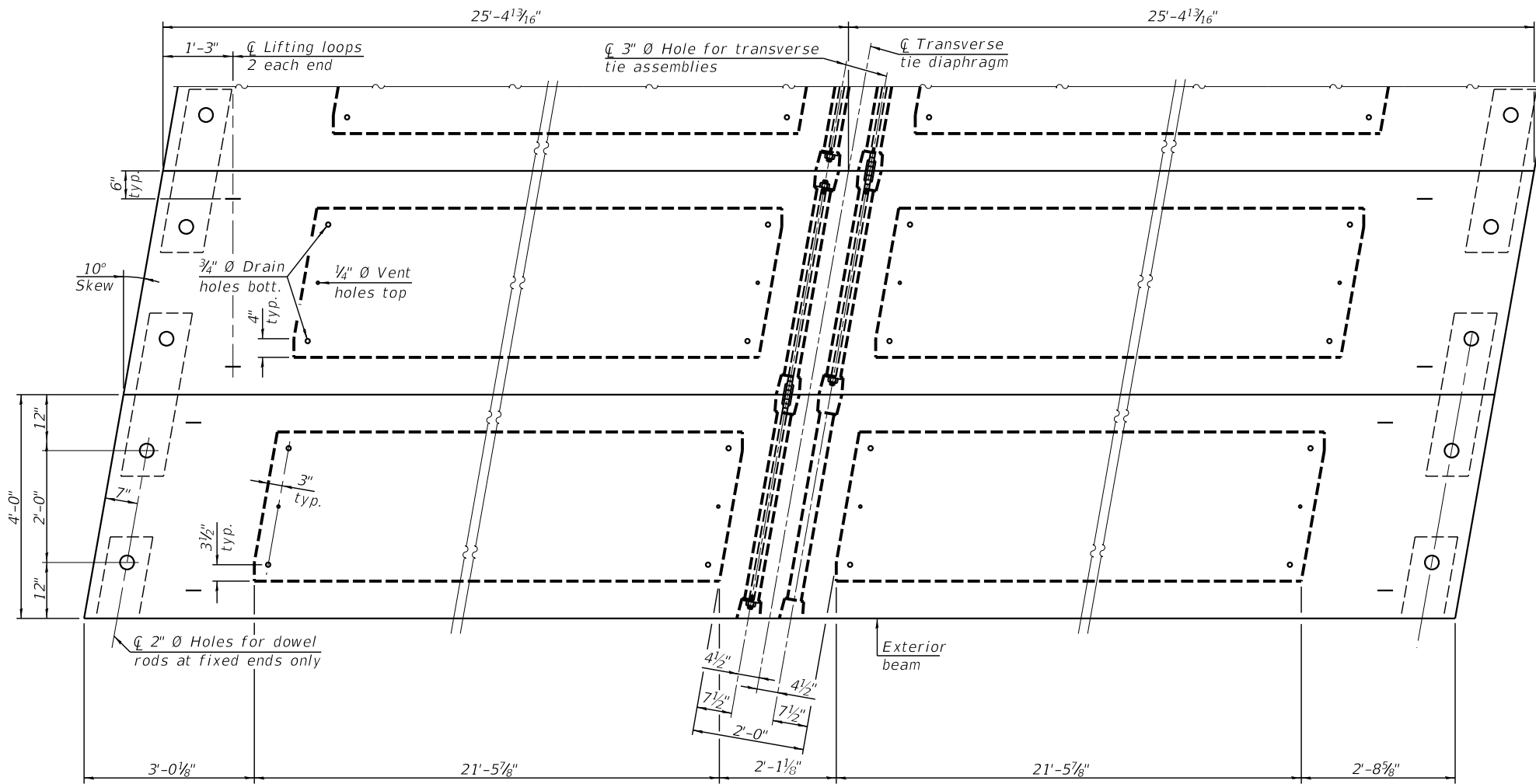
- All bearing pads shall be 1" thick.
- Omit holes when using expansion bearings.
- Expansion bearing pads shall be bonded to the substructure.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

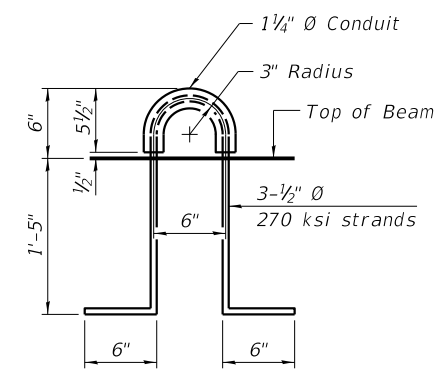
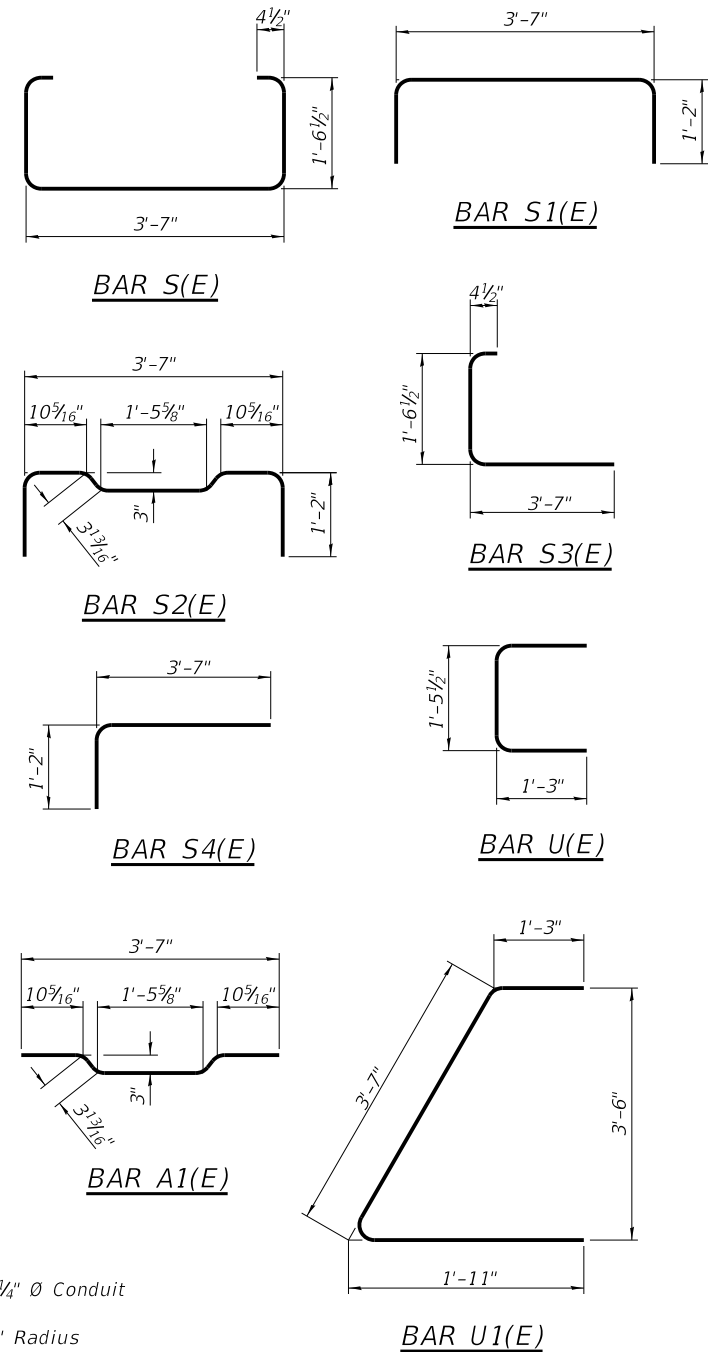


PLAN VIEW

NOTES

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" Ø rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

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



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	4268
-------------------------------------------------	---------	------

PDD-2148-L 1-1-2020



USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - TRC	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - TRC	REVISED -

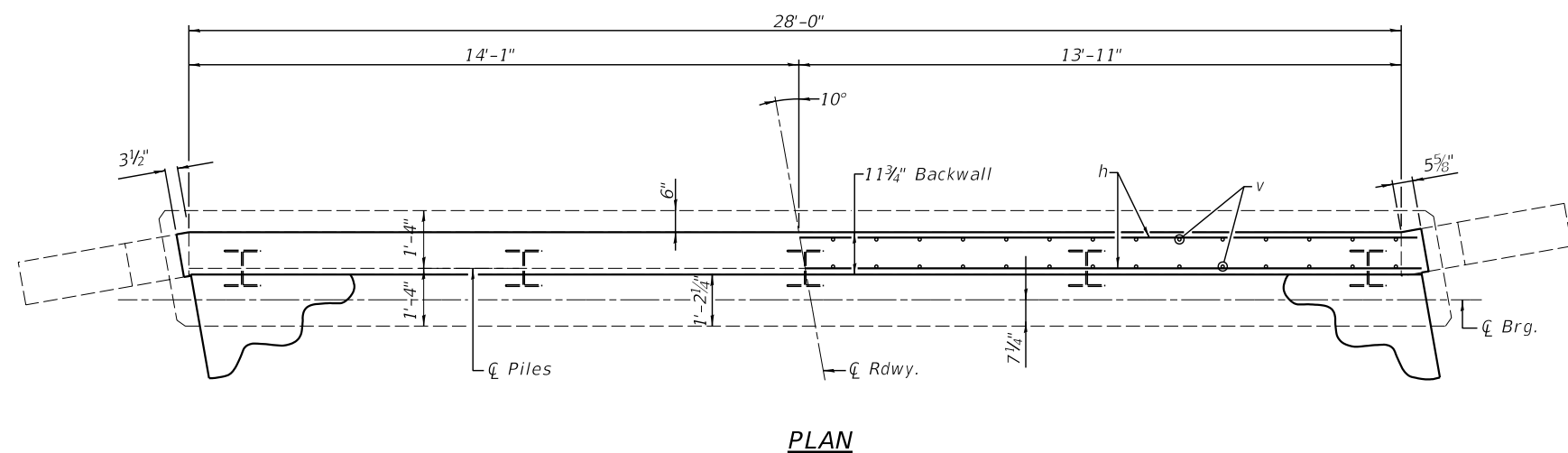
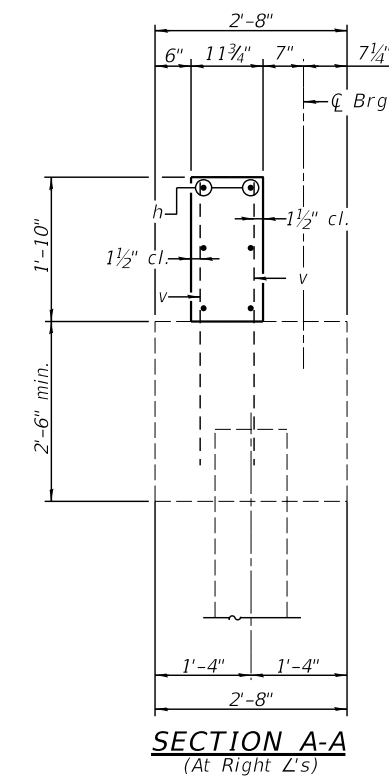
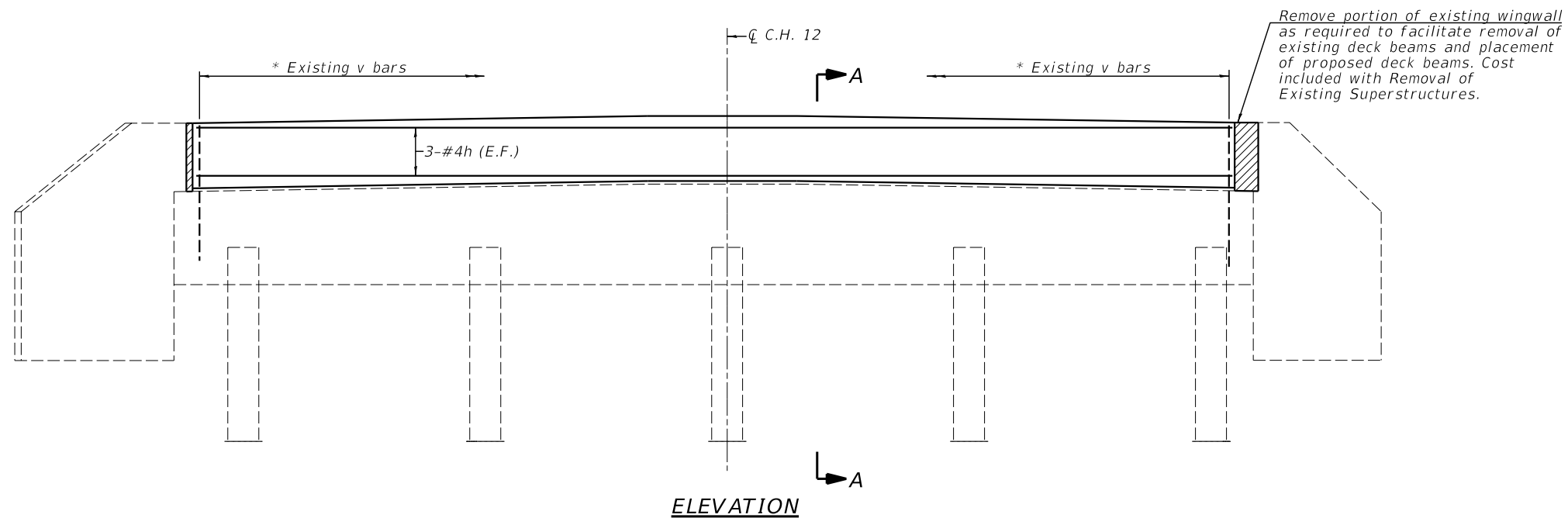
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

21" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 054-3052

SHEET NO. 4 OF 8 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	13
CONTRACT NO. 93776				

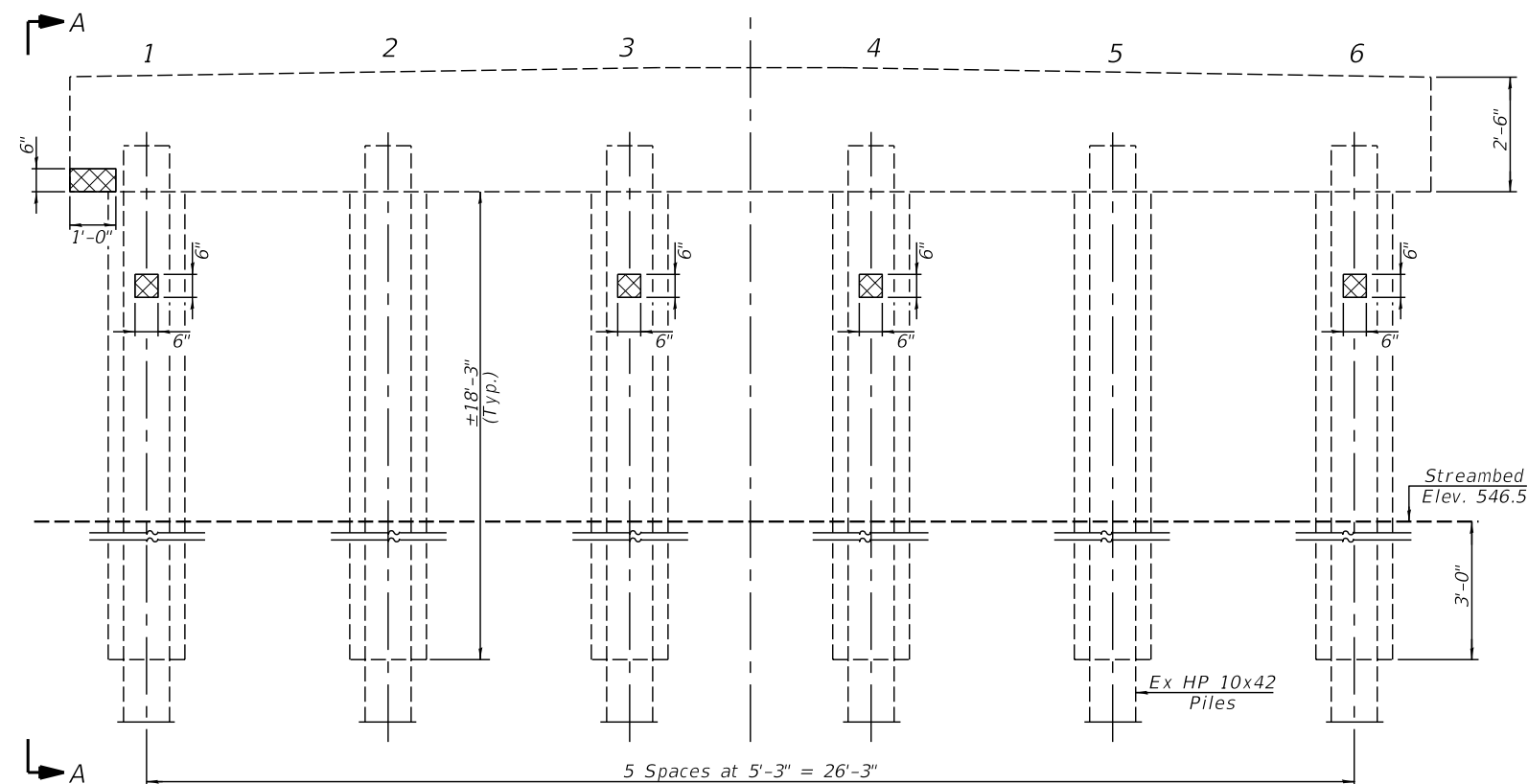
ILLINOIS FED. AID PROJECT



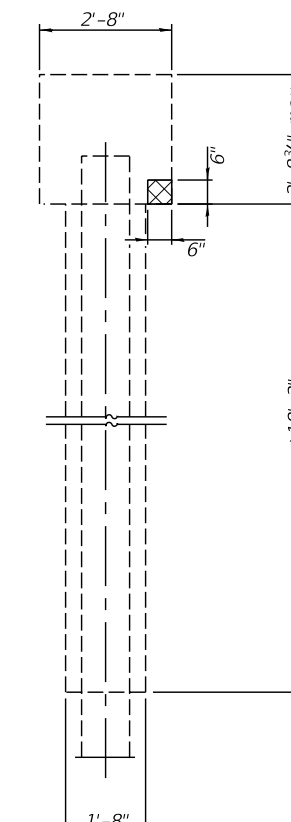
**BILL OF MATERIAL
2 ABUTMENTS**

Bar	No.	Size	Length	Shape
h	12	#4	28'-5"	—
Concrete Removal			Cu. Yd.	3.2
Structure Excavation			Cu. Yd.	19.8
Concrete Structures			Cu. Yd.	3.8
Reinforcement Bars			Pound	230

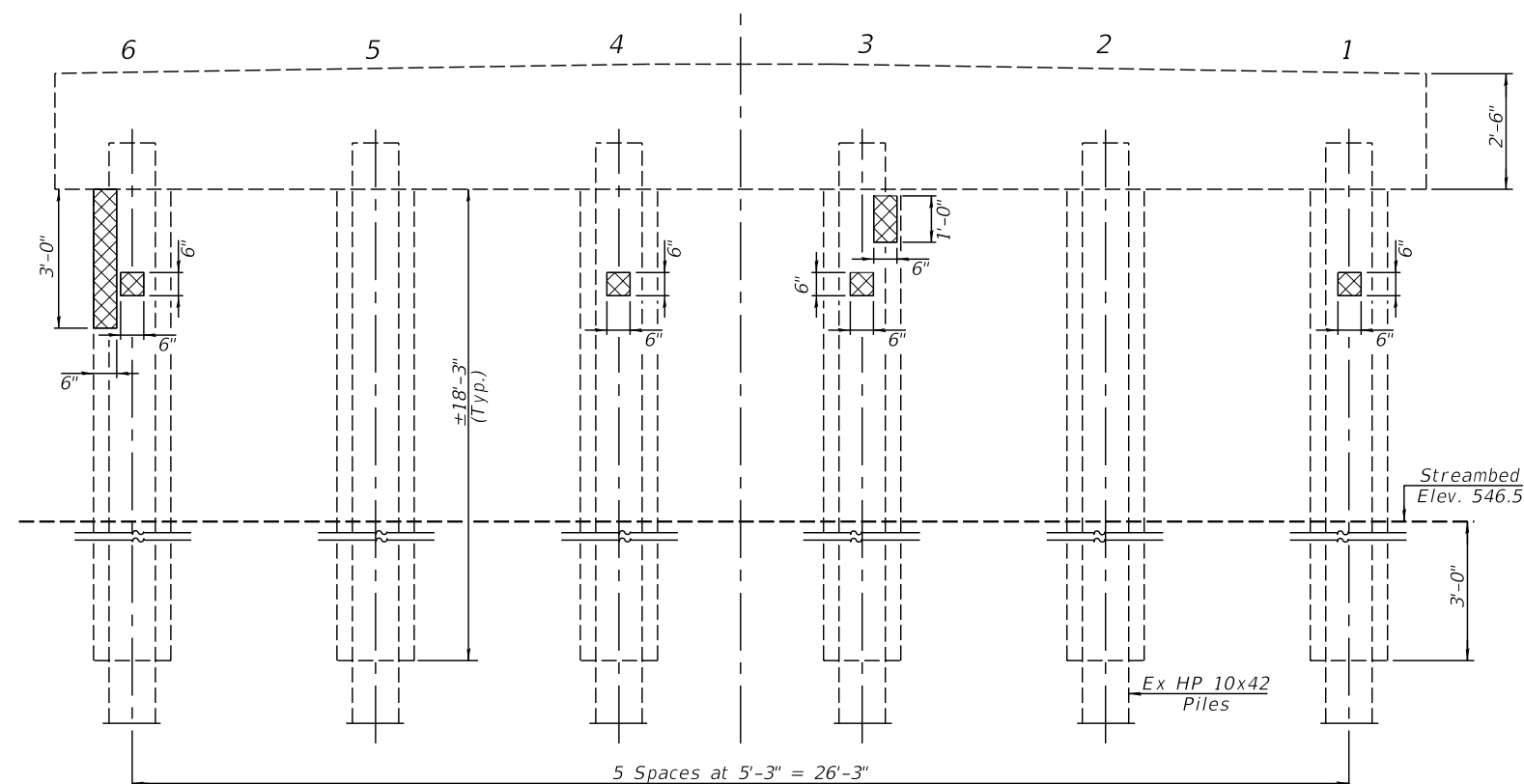
* Existing v bars in backwall extending from abutment caps to be incorporated into new construction. Reinforcement shall be cleaned and straightened. Cost included with Concrete Removal.



ELEVATION - LOOKING WEST



SECTION A-A



ELEVATION - LOOKING EAST

Note: It shall be the Contractor's responsibility to dewater or remove any material to facilitate the pile encasement repairs.

LEGEND

Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)

BILL OF MATERIAL

Structural Repair of Concrete Depth = < 5 inches	Sq. Ft.	5
--------------------------------------------------	---------	---



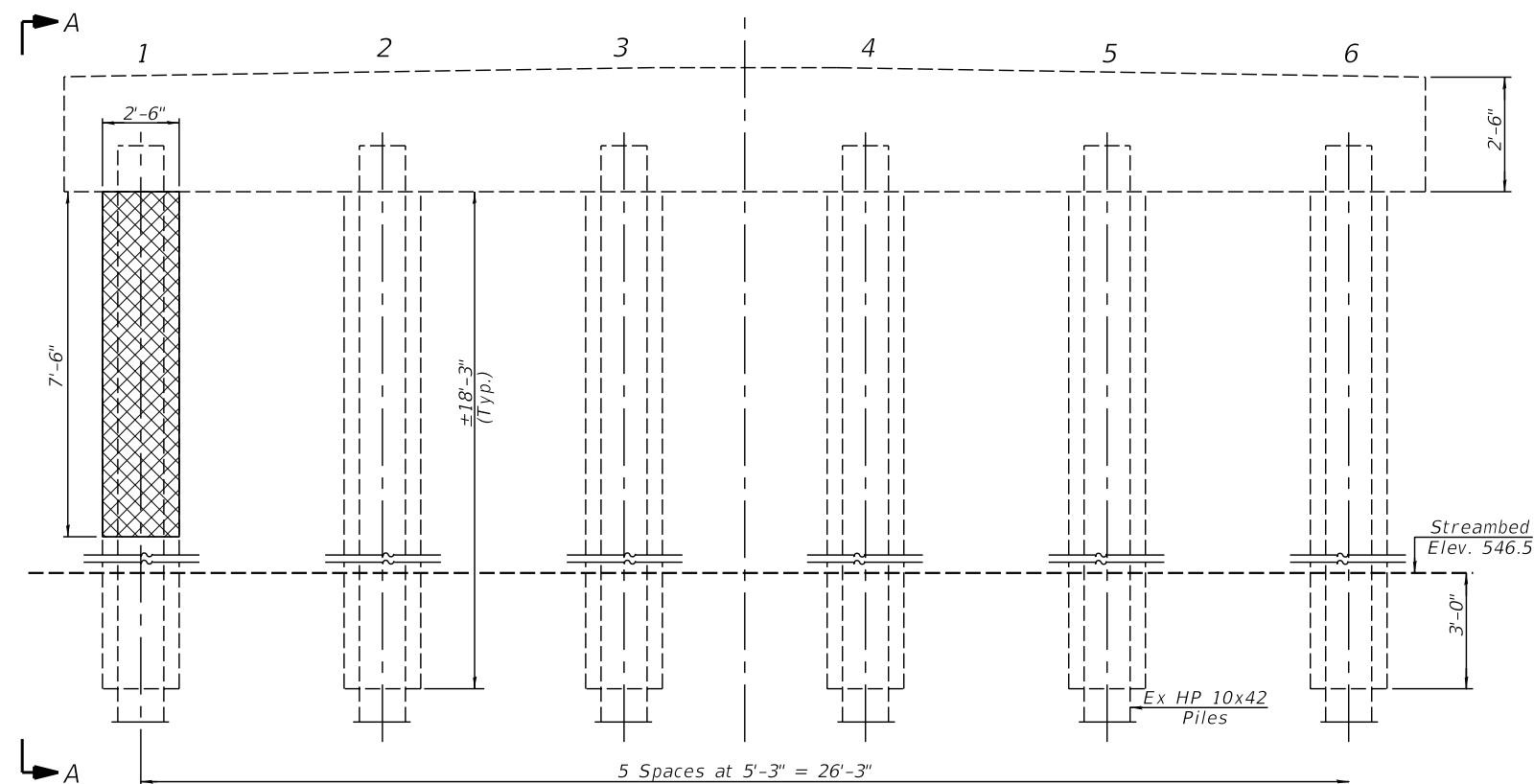
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	CHECKED - TRC	REVISED -
PLOT SCALE =	DRAWN - JRP	REVISED -
PLOT DATE =	CHECKED - TRC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

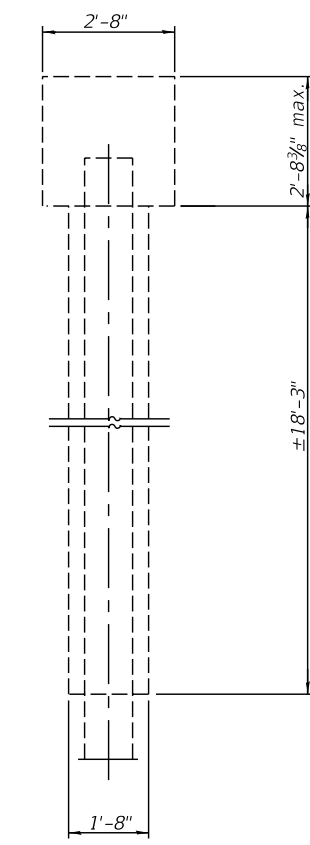
PIER 1 - REPAIR
STRUCTURE NO. 054-3052

SHEET NO. 6 OF 8 SHEETS

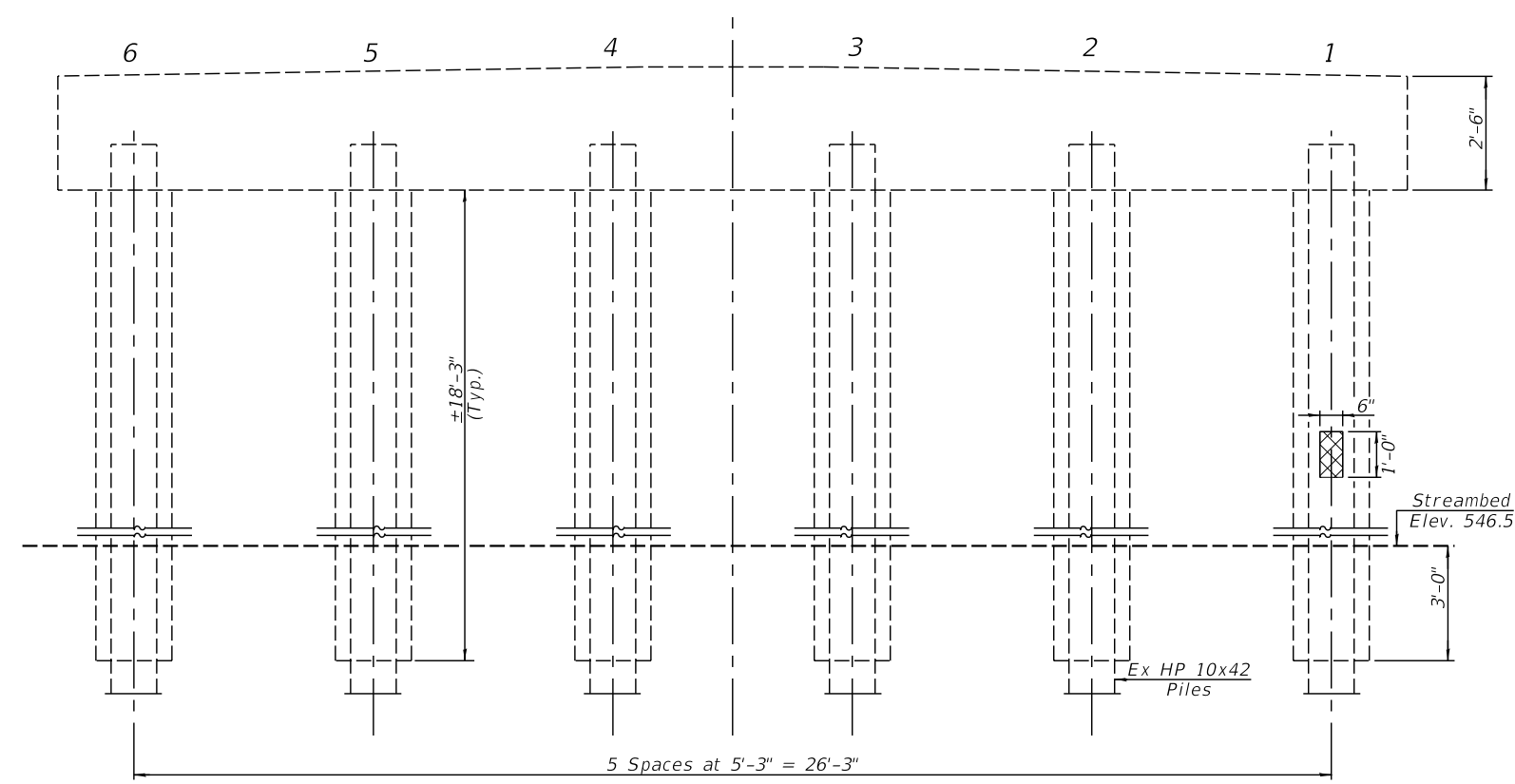
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	15
CONTRACT NO. 93776				
ILLINOIS FED. AID PROJECT				



ELEVATION - LOOKING WEST



SECTION A-A



ELEVATION - LOOKING EAST

Note: It shall be the Contractor's responsibility to dewater or remove any material to facilitate the pile encasement repairs.

LEGEND

- Structural Repair of Concrete (Depth Equal to or Less Than 5 inches)

BILL OF MATERIAL

Structural Repair of Concrete Depth = < 5 inches	Sq. Ft.	19
--------------------------------------------------	---------	----



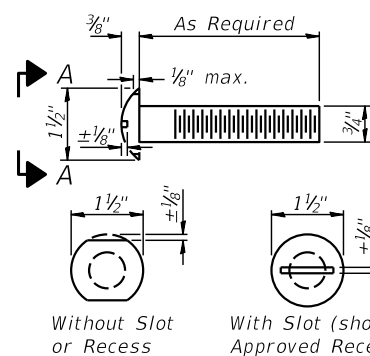
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	CHECKED - TRC	REVISED -
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PLOT DATE =	CHECKED - TRC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

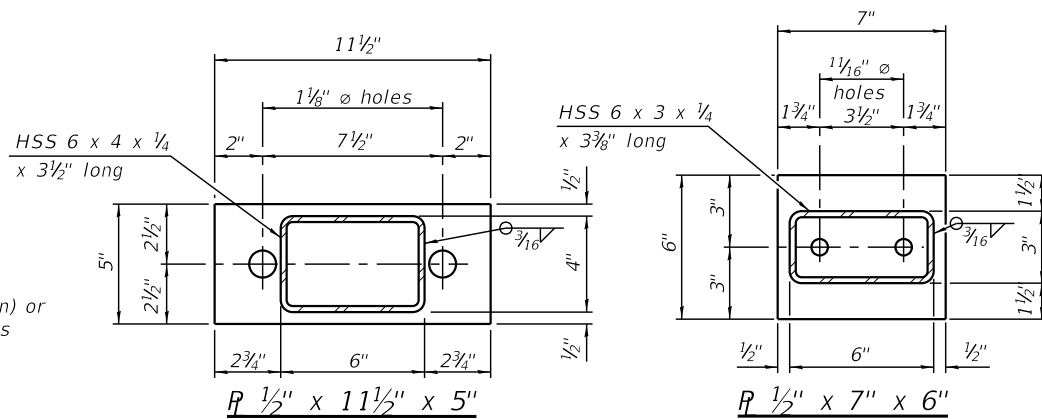
PIER 2 - REPAIR
STRUCTURE NO. 054-3052

SHEET NO. 7 OF 8 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	16
CONTRACT NO. 93776				
ILLINOIS FED. AID PROJECT				

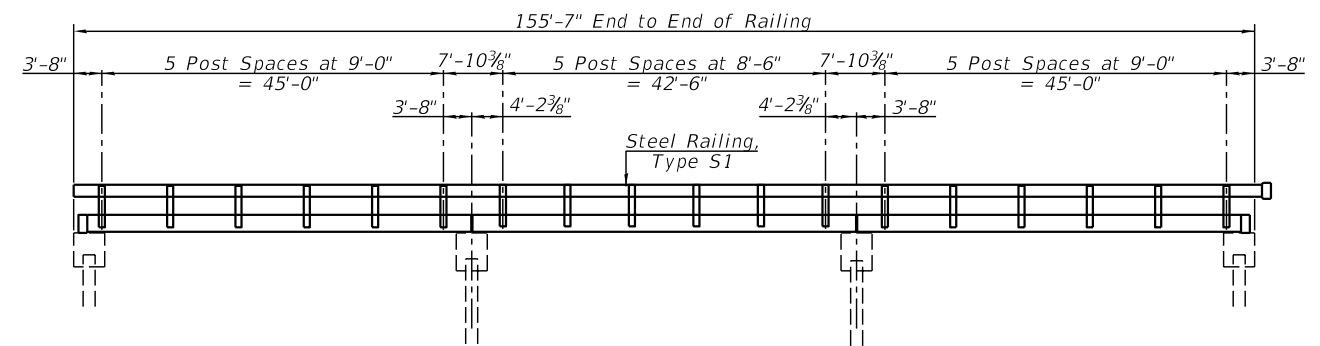


VIEW A-A
ROUND HEAD BOLT

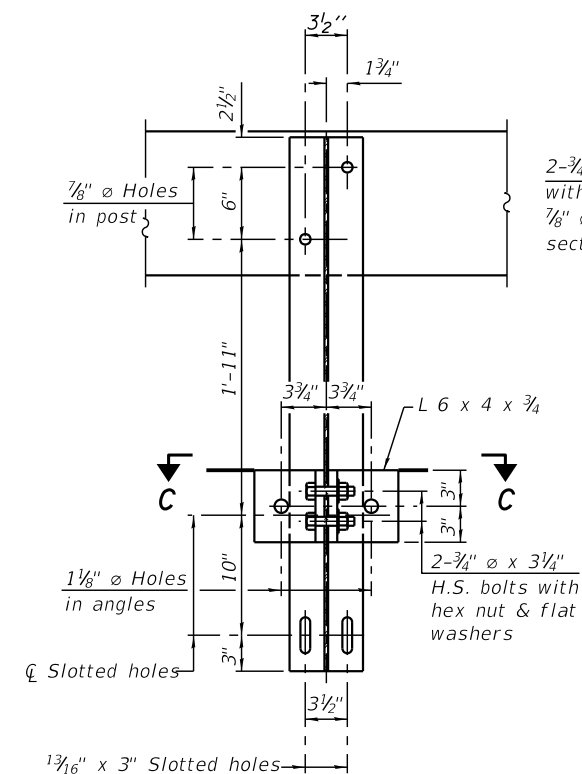


R 1/2" x 11 1/2" x 5"

R 1/2" x 7" x 6"

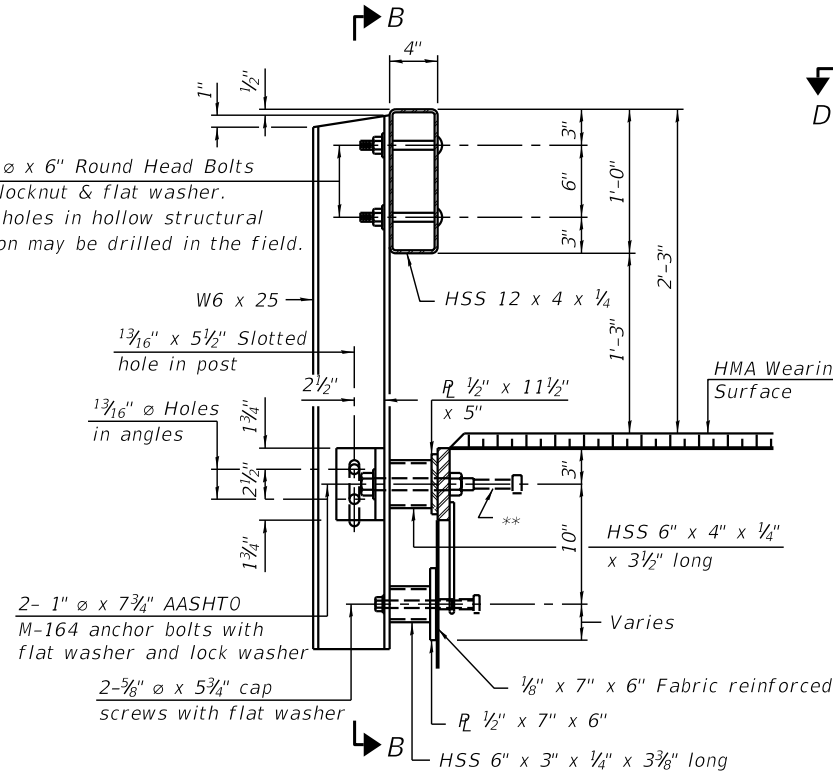


ELEVATION
(Showing Outside Face of Railing)

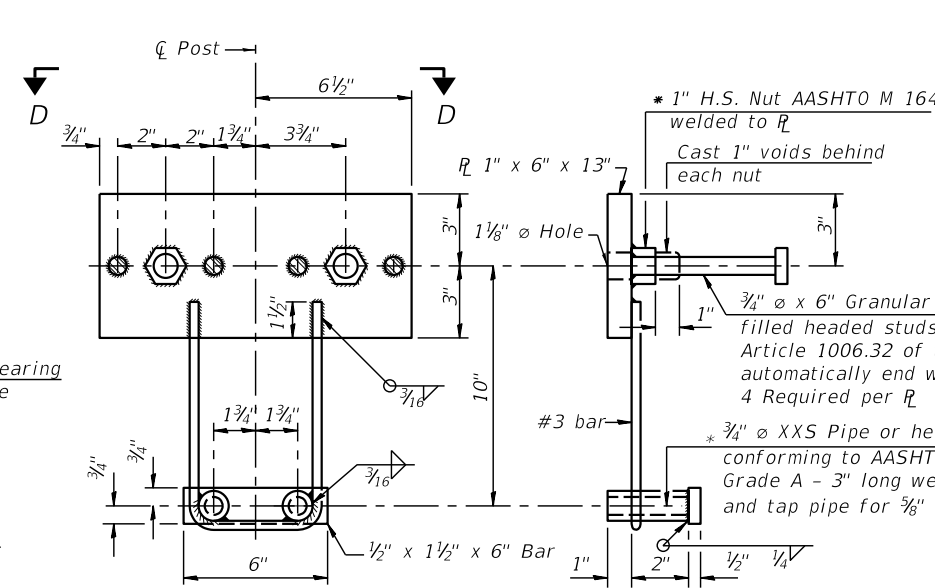


SECTION B-B

2-3/4" ϕ x 6" Round Head Bolts with locknut & flat washer.
7/8" ϕ holes in hollow structural section may be drilled in the field.

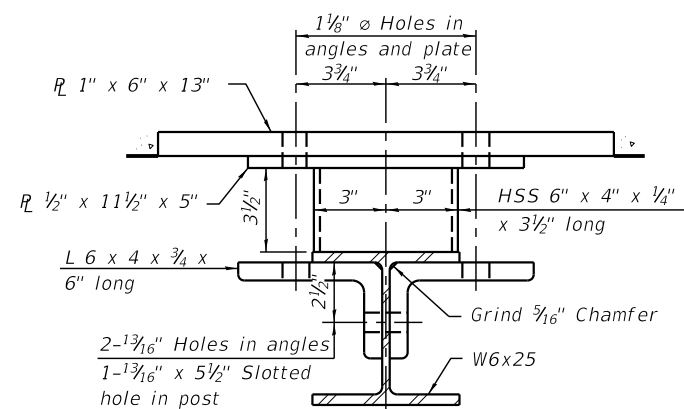


SECTION AT RAILING POST

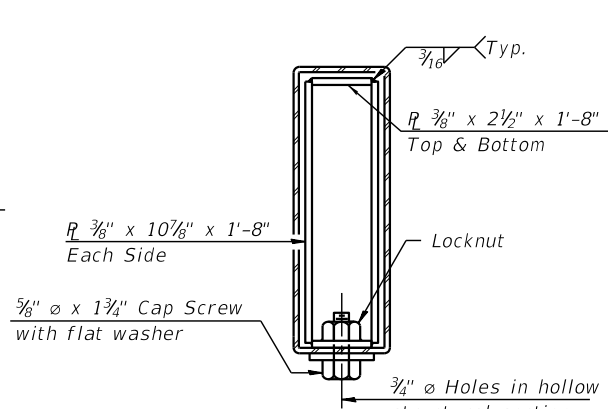


ANCHOR DEVICE
* Threaded areas shall be plugged or blocked off during casting of beam.

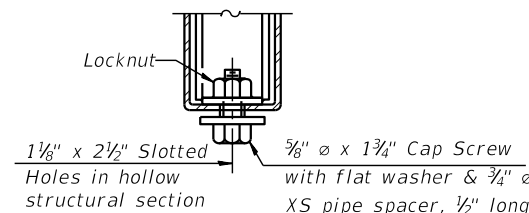
Notes:
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement bar placement.



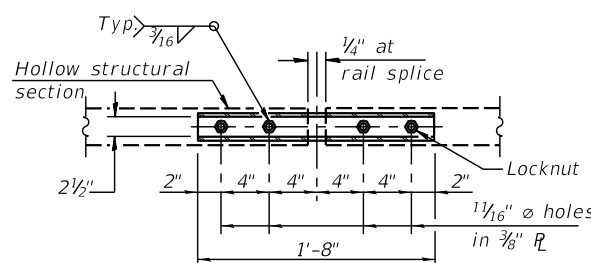
SECTION C-C



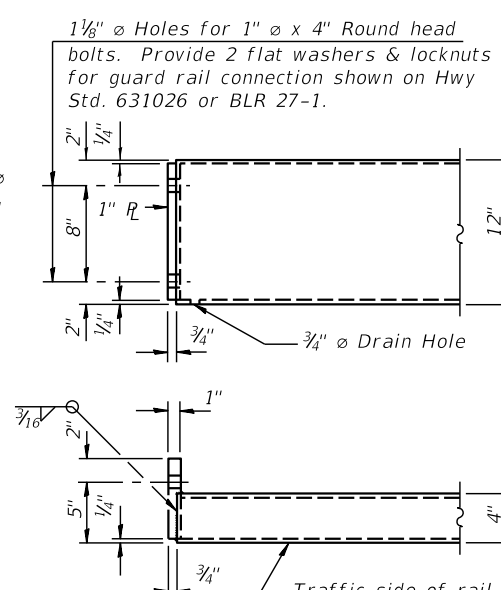
SECTIONS AT RAIL SPLICE



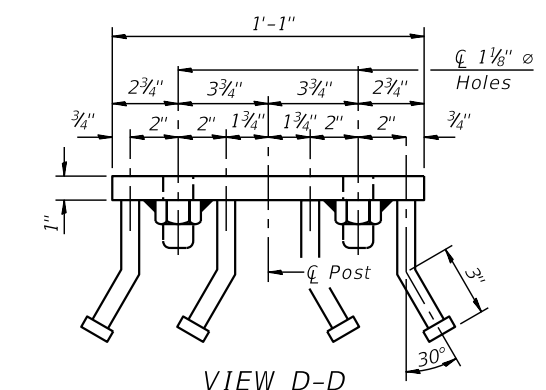
RAIL SPLICE CONNECTION
AT EXPANSION JT.



PLAN-BOTT. SPLICE R
TYPICAL



END OF RAIL DETAILS



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S1	Foot	312

R-23A 2-17-2017 (10'-9" Maximum Post Spacing)



USER NAME =	DESIGNED -	REVISIONS -
	KES	
CHECKED -	TRC	REVISIONS -
PLOT SCALE =	DRAWN -	REVISIONS -
	JRP	
PLOT DATE =	CHECKED -	REVISIONS -
	TRC	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

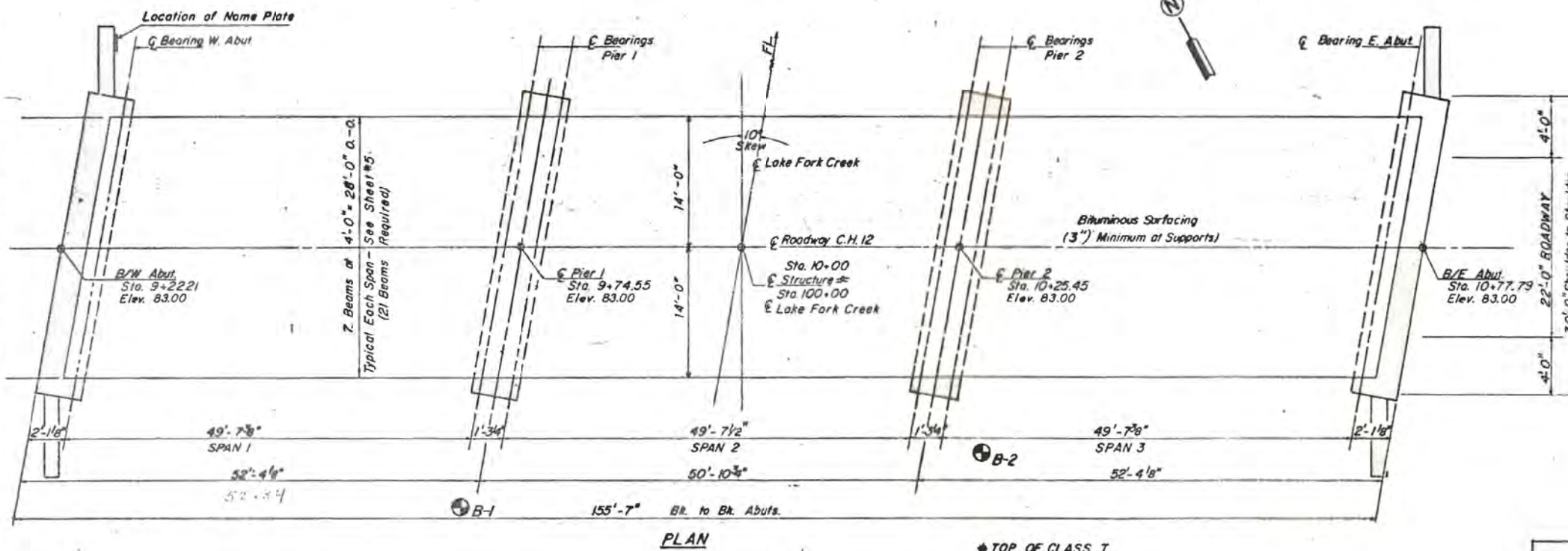
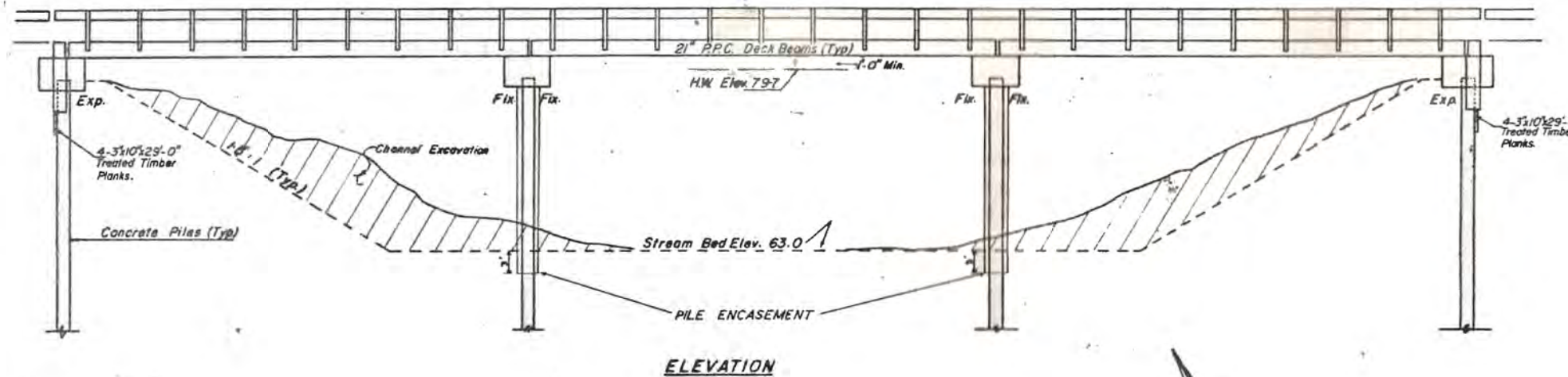
STEEL RAILING, TYPE S-1
STRUCTURE NO. 054-3052

SHEET NO. 8 OF 8 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	17
CONTRACT NO. 93776				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

SEE SHEET NO. 7 FOR BORING DATA.
 ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH TWO COATS OF BASIC LEAD SILICO CHROMATE PAINT.
 EXPANSION GUARDS WHICH ARE NOT CAST IN THE PRECAST UNIT SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH ARTICLE 503.07 (C) OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL.
 THE CONTRACTOR SHALL DRIVE ONE (1) STEEL TEST PILE IN A PERMANENT LOCATION AT PIER 2, AS DIRECTED BY THE ENGINEER BEFORE ORDERING THE REMAINDER OF PILES.
 THE TOP SURFACE OF THE BEAMS SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 505.06 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE SURFACE SHALL NOT BE ROUGHENED BY BROOMING. THE FINISHED SURFACE SHALL BE FREE OF DEPRESSIONS OR HIGH SPOTS WITH SHARP CORNERS.
 THE ENBAWMENT CONFIGURATION SHOWN SHALL BE THE MINIMUM ENBAWMENT THAT MUST BE CONSTRUCTED PRIOR TO CONSTRUCTION OF THE ABUTMENTS.



TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Bituminous Concrete Surface Course Class I (Mix. D)	Ton	54.1	-	54.1
Removal of Existing Structures	Each	-	-	1
Class X Concrete	Cu. Yd.	-	35.6	35.6
Precast Prestressed Concrete Deck Beams 21\" Deep	Sq. Ft.	4280	-	4280
Structural Steel	Lbs.	3940	-	3940
Steel Railing Type "S"	Lin. Ft.	306	-	306
Reinforcement Bars	Lbs.	-	5090	5090
Name Plates	Each	-	1	1
Waterproofing Membrane System	Sq. Yd.	476	-	476
STEEL PILES HP 10x42	Lin. Ft.	-	586	586
Channel Excavation	Cu. Yd.	-	480	480
Structure Excavation	Cu. Yd.	-	30	30
Test Piles STEEL HP 10x42	Each	-	1	1
Treated Timber	F.B.M.	-	580	580
Preformed Joint Sealer 2 1/2\"	Lin. Ft.	58	-	58
PORTLAND CEMENT MORTAR FAIRING C.S.E.	LIN. FT.	250	-	250
CLASS X CONCRETE ENCASEMENT	CU. YD.	-	20.5	20.5

WATERWAY INFORMATION

Drainage Area..... 259 sq. mi.
 Required Opening (20 year flood)... 1950 sq. ft.
 Provided Opening..... 1950 sq. ft.
 Present Opening..... 1670 sq. ft.
 Q₂₀..... 8150 cfs.
 Created Head For Design Flood..... 0.5 ft.
 Q₁₀₀..... 13,400 cfs.
 Created Head For 100 Yr. Flood..... 0.0 ft.

DESIGN STRESSES

PRECAST PRESTRESSED UNITS

f_{lc} = 5,000 p.s.i.
 f_{ci} = 4,000 p.s.i.
 f_{is} = 270,000 p.s.i. (1/2\" strands)
 f_{si} = 189,000 p.s.i. (1/2\" strands)

FIELD UNITS

f_c = 1,400 (sub)
 f_s = 20,000 p.s.i. (reinf.)
 n = 9

LOADING HS 20-44
 DESIGN SPECIFICATION: AASHTO 1973 & APPLICABLE INTERIMS

BUILT 1977
 LOGAN COUNTY
 C#12 SEC. 76-00091-00-BR
 LOADING HS20
 STRUCTURE NO. 054-3052

LETTERING FOR NAME PLATE
 (SEE STD. 2113)



FOR INFORMATION ONLY

GENERAL PLAN & ELEVATION
 C.H. Route 12 Over Lake Fork Creek
 SECTION 76-00091-00-BR
 LOGAN COUNTY
 STA. 10+00

DESIGNED BY: M.H. JAVED
 CHECKED BY: K.M. CHANDRATHIL
 DRAWN BY: BARBARA HERDEN
 CHECKED BY: KENNETH A. CHANDRATHIL



USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - TRC	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - TRC	REVISED -

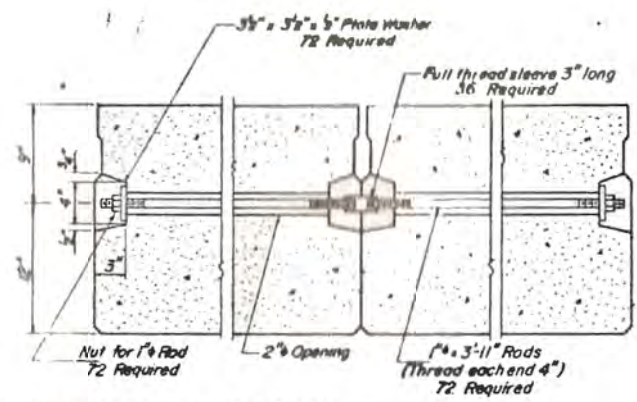
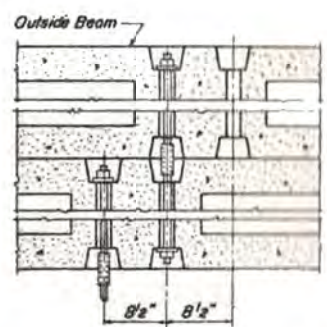
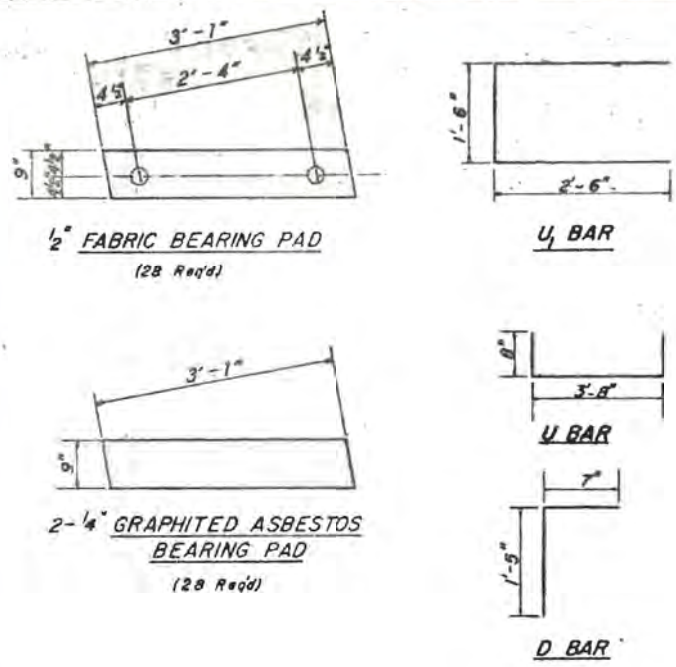
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE
 STRUCTURE NO. 054-3052
 SHEET NO. 8 OF 12 SHEETS

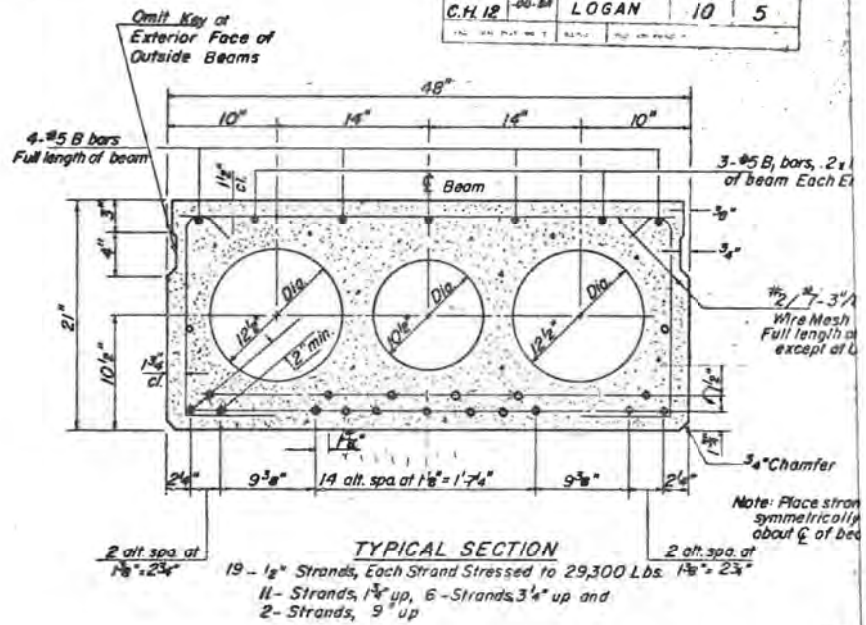
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	18
CONTRACT NO. 93776				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

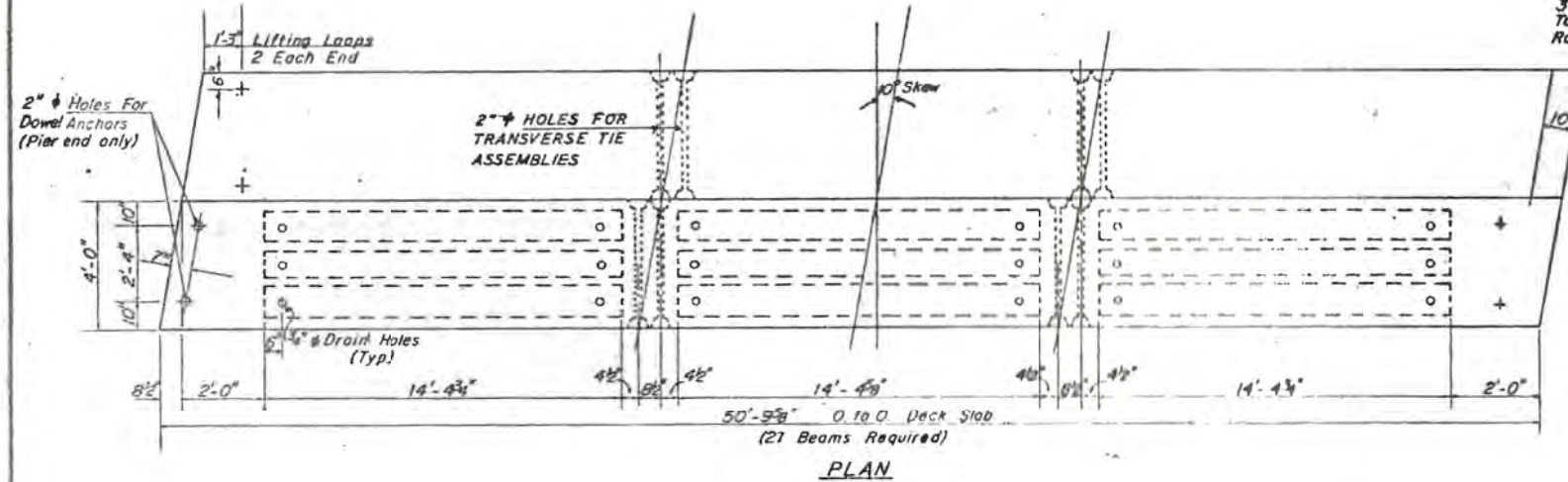
C.H. 12	LOGAN	10	5
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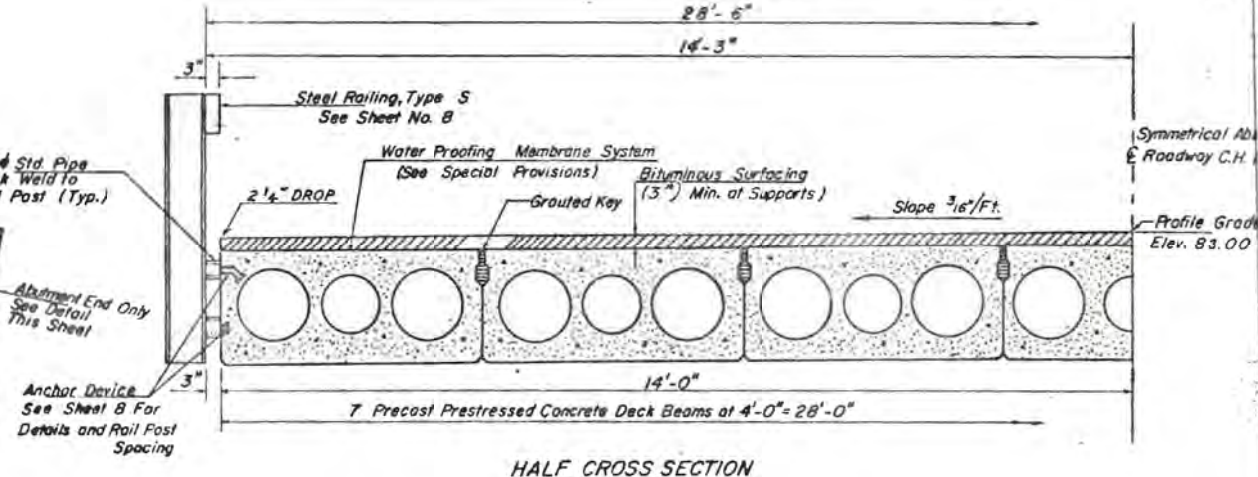
TYPICAL TRANSVERSE TIE ASSEMBLY



TYPICAL SECTION



PLAN



HALF CROSS SECTION

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
B	84	#5	50'-3"	—	
B1	126	#5	10'-0"	—	
B2	84	#4	2'-0"	—	
U	42	#4	5'-0"	—	
U1	252	#4	6'-6"	—	
D	84	#5	2'-0"	—	
Precast Prestressed Concrete Deck Beams 21"				Sq. Ft.	42.80

NOTES

Pressing steel shall be non galvanized high strength, stress relieved 7-wire strand Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.85 sq in. Lifting loops shall be 5/8" diameter, 6 x 25 class wire rope with fiber core and shall have a minimum ultimate tensile strength of 33,000 lbs.

The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place.

Longitudinal shear keys shall be packed with a very dry mix of 2-1 sand and P.C. mortar. After beams have been erected, holes for the dowel anchors shall be drilled into the sub-structure and the anchor dowels shall be grouted in place. (into Piers Only)

After fabrication the transverse tie assemblies (the rods, nuts, washers and sleeves) shall be hot-dipped galvanized in accordance with AASHTO M 232.

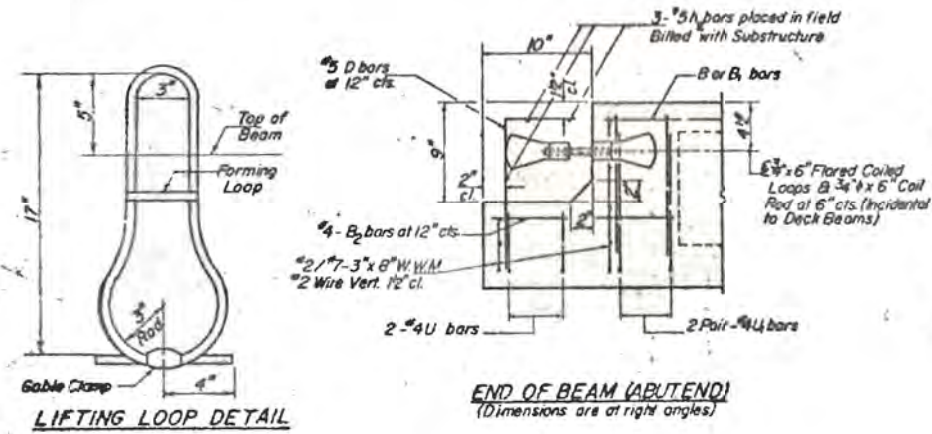
Cost of reinforcement and accessories cast into the beam, of bearing pads of dowel anchors and of grouting longitudinal shear keys is included in unit price bid for "Precast Prestressed Concrete Deck Beams, 21" Depth."

FOR INFORMATION ONLY

SUPER STRUCTURE DETAIL

C.H. Route 12 Over Late Fork Creek
SECTION 76-00091-00-BR
LOGAN COUNTY
STA. 10+00

DESIGNED BY M.H.J.
CHECKED BY K.M.C.
DRAWN BY B.H.
CHECKED BY: [Signature]



LIFTING LOOP DETAIL

END OF BEAM (ABUTMENT)
(Dimensions are at right angles)



USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - TRC	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - TRC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE
STRUCTURE NO. 054-3052

SHEET NO. 10 OF 12 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	19
				CONTRACT NO. 93776

ILLINOIS FED. AID PROJECT

**BILL OF REINFORCEMENT
1 ABUTMENT**

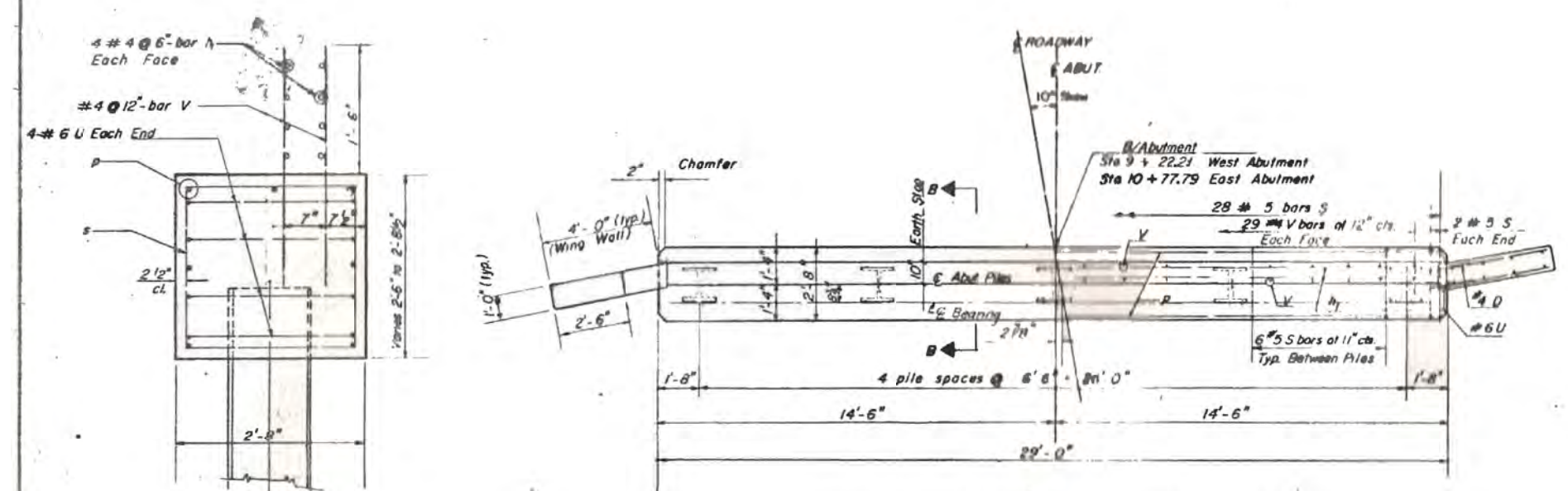
MARK	NUMBER	SIZE	LENGTH	SHAPE
P	7	#7	28'-9"	—
S	28	#5	9'-11"	□
D	16	#4	3'-0"	—
U	8	#6	9'-3"	□
h	36	#4	3'-9"	—
h ₁	8	#6	28'-0"	—
V	58	#4	3'-6"	—
V ₁	16	#4	6'-3"	—
h ₂	6	#5	28'-0"	—

**BILL OF MATERIALS
2 ABUTMENTS**

ITEM	UNIT	QUANTITY
Class X Concrete	Cu. Yd.	20.3
Reinforcement Bars	Pound	3120
Steel Piles HP 10 x 42	Lin. Ft.	310
Treated Timber	FBM	580
Class X Concrete Encasement	Cu. Yd.	2.5

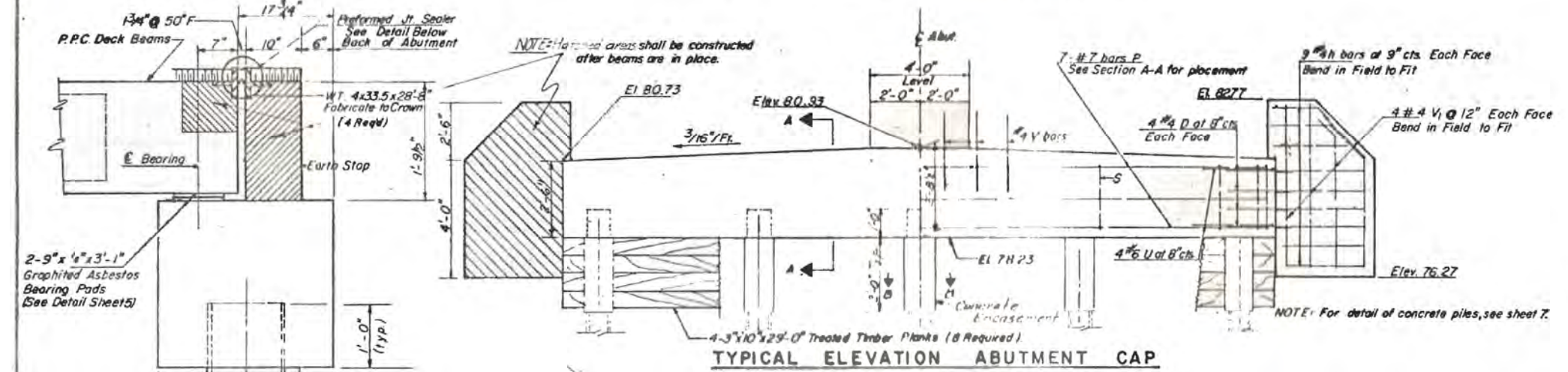
PILE DATA

	E-Abut.	W-Abut.
TYPE: Steel HP 10x42		
CAPACITY: 35 Tons		
EST. LENGTH:	34	28
NO. REQUIRED	5	5

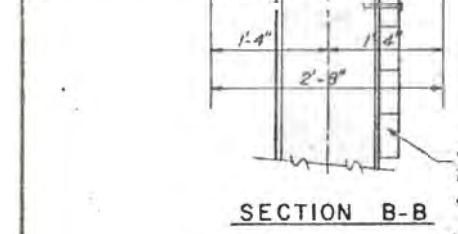


SECTION A-A

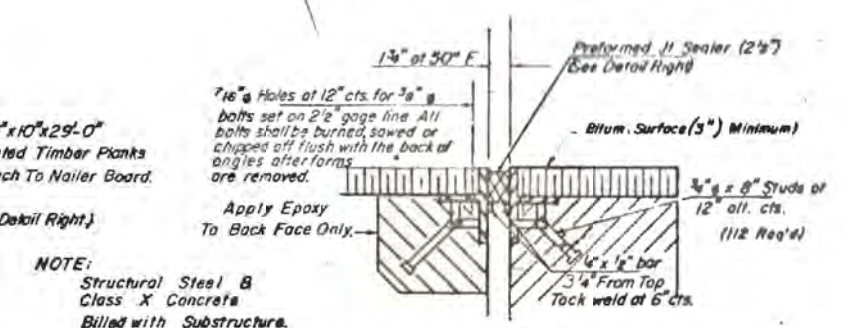
TYPICAL PLAN OF ABUTMENT CAP



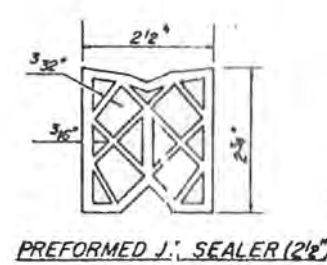
TYPICAL ELEVATION ABUTMENT CAP



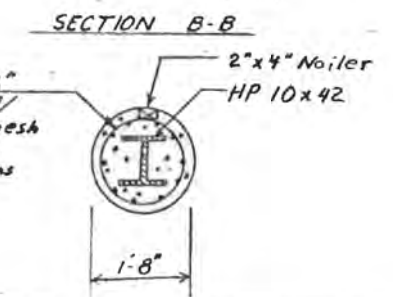
SECTION B-B



PREFORMED J.T. SEALER



PREFORMED J.T. SEALER (2' x 2')



SECTION B-B

DESIGNED BY M.H.J.
CHECKED BY K.M.C.
DRAWN BY M.M.
CHECKED BY R. A. [Signature]



USER NAME =	DESIGNED - KES	REVISED -
PLOT SCALE =	CHECKED - TRC	REVISED -
PLOT DATE =	DRAWN - JRP	REVISED -
	CHECKED - TRC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

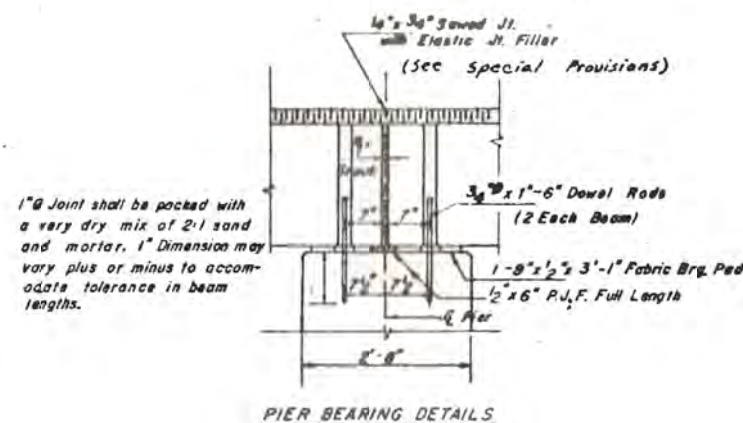
EXISTING STRUCTURE
STRUCTURE NO. 054-3052

SHEET NO. 11 OF 12 SHEETS

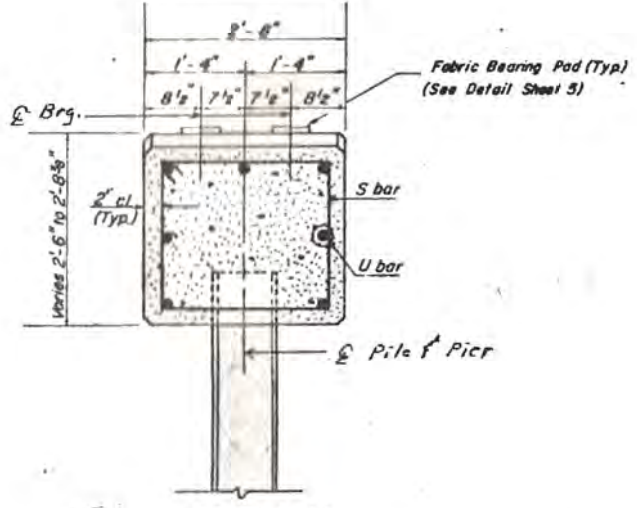
FOR INFORMATION ONLY

ABUTMENT DETAILS
C.H. Route 12 Over Lake Fork Creek
SECTION 76-00091-00-BR
LOGAN COUNTY
STA. 10+00

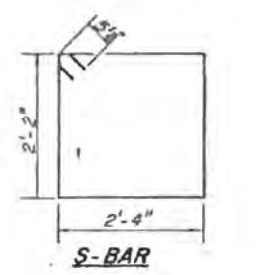
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	20
CONTRACT NO. 93776				
ILLINOIS FED. AID PROJECT				



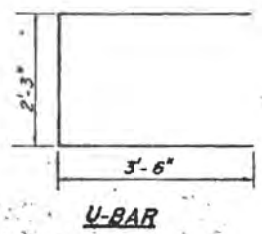
PIER BEARING DETAILS



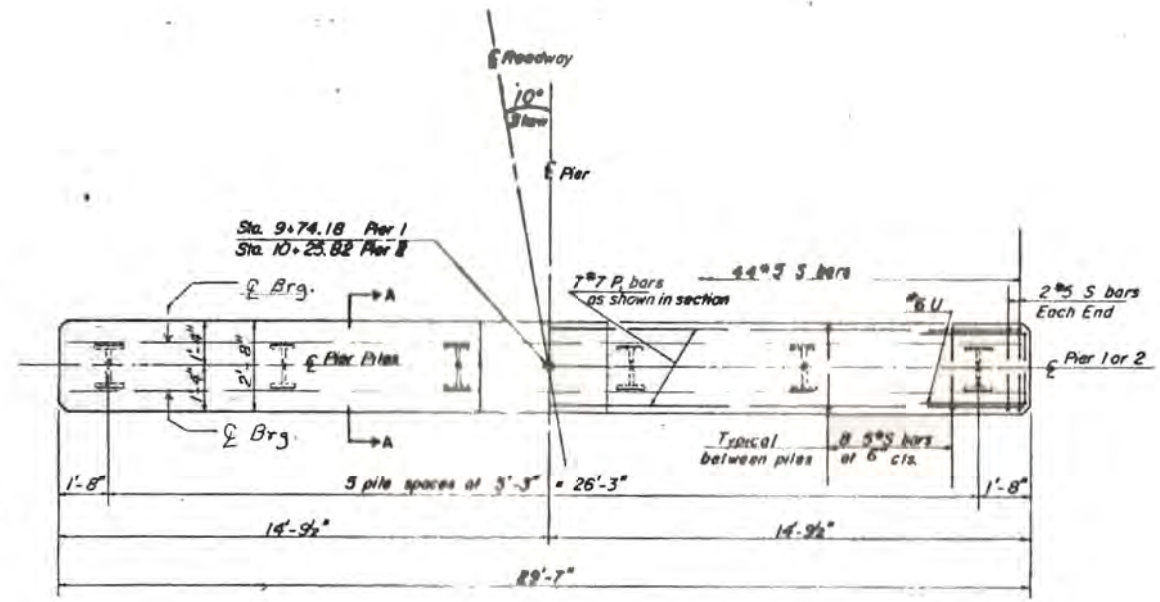
SECTION AA



S-BAR



U-BAR



PLAN-PIER CAP

BORING DATA

- N - Standard Penetration Test - Blows per foot to drive 2" O.D. split spoon sampler 12" with 140# hammer falling 30"
- Q_u - Unconfined Compressive Strength - t/sf
- W - Percentage of oven dry weight - %
- B - Bulge Failure
- S - Shear Failure

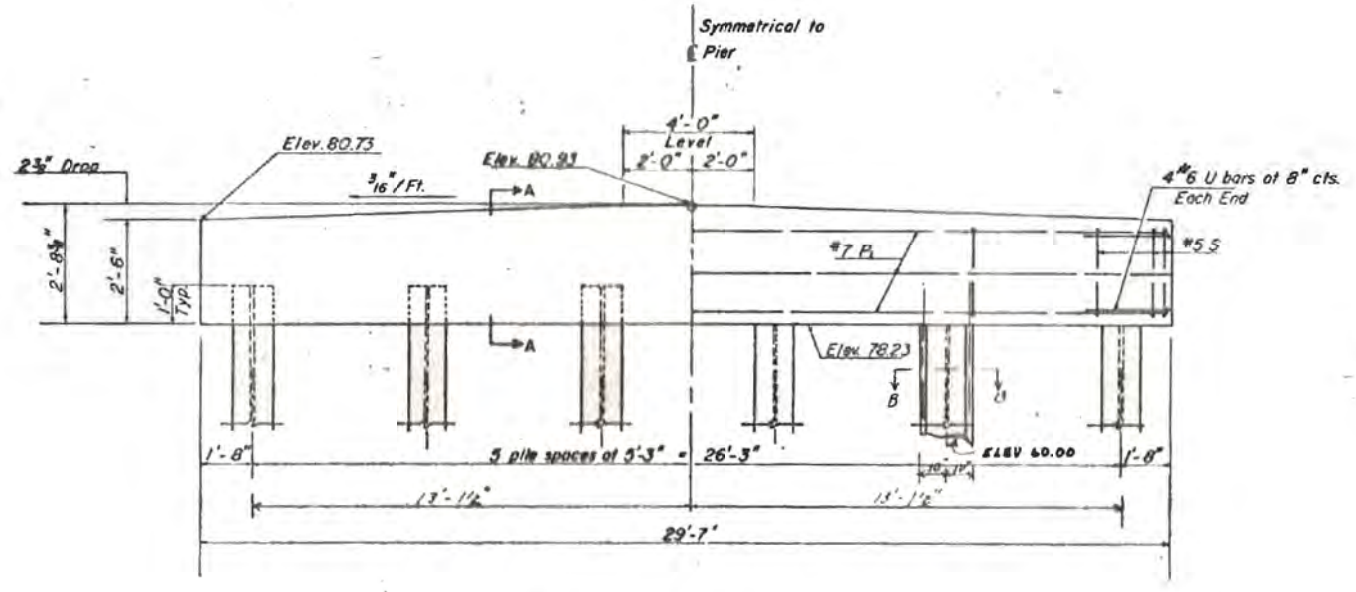
NO.	Q _u	W	Surface Elev.	NO.	Q _u	W	Surface Elev.
70	8	17.18	72.9	70	12	13.25	72.9
65	7	45.24	72.9	65	5	78.26	72.9
60	3	-	72.9	60	11	-	72.9
55	42	43.10	72.9	55	6	72.26	72.9
50	87	65.09	72.9	50	30	-	72.9
45	80	32.9	72.9	45	25	-	72.9
40	82	32.9	72.9	40	71	40.18	72.9
	62	32.10	72.9	35	65	72.16	72.9
	46	82.13	72.9	30	67	82.15	72.9

BORING NO. 1
20' Rt. Sta. 9+67

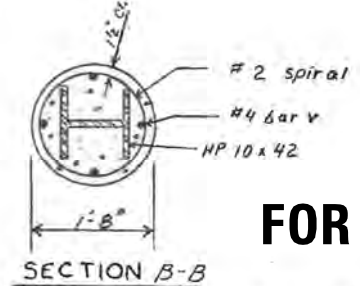
BORING NO. 2
16' Rt. Sta. 10+32

PILE DATA

TYPE	PIER 1	PIER 2
TYPE: Steel Piles HP 10x42		
CAPACITY	42	42
EST. LENGTH	28	34
NO. REQUIRED	6	5 (Plus 1 Band Test Pile in Permanent Load)



ELEVATION-PER CAP



SECTION B-B

FOR INFORMATION ONLY

Reinforcement spiral and #4 bars shall be incidental to item Class X Concrete Encasement. Splices in spirals shall be made by lap of 1/2 turns.

DESIGNED BY M.H.J.
CHECKED BY K.M.C.
DRAWN BY B.H.

PIER DETAILS
CH Route 12 Over Lake Fork Creek
SECTION 76-00091-00-BR



USER NAME =	DESIGNED - KES	REVISOR -
PLOT SCALE =	CHECKED - TRC	REVISOR -
PLOT DATE =	DRAWN - JRP	REVISOR -
	CHECKED - TRC	REVISOR -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE
STRUCTURE NO. 054-3052

SHEET NO. 12 OF 12 SHEETS

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	21
CONTRACT NO. 93776				
ILLINOIS FED. AID PROJECT				

**TRANSITION FROM EXISTING SIDESLOPES AT STA. 7+75
TO 1:2 SIDESLOPE AT STA. 8+09 RT AND 8+13.9 LT.**

PROJECT BEGINS - STA. 7+75.00

7+75.00

7+50.00

7+25.00

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

MODEL: S:\MODEL\MAMES
FILE NAME: STILES

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	CHECKED - _____	REVISED - _____
PLOT DATE = \$DATE\$	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

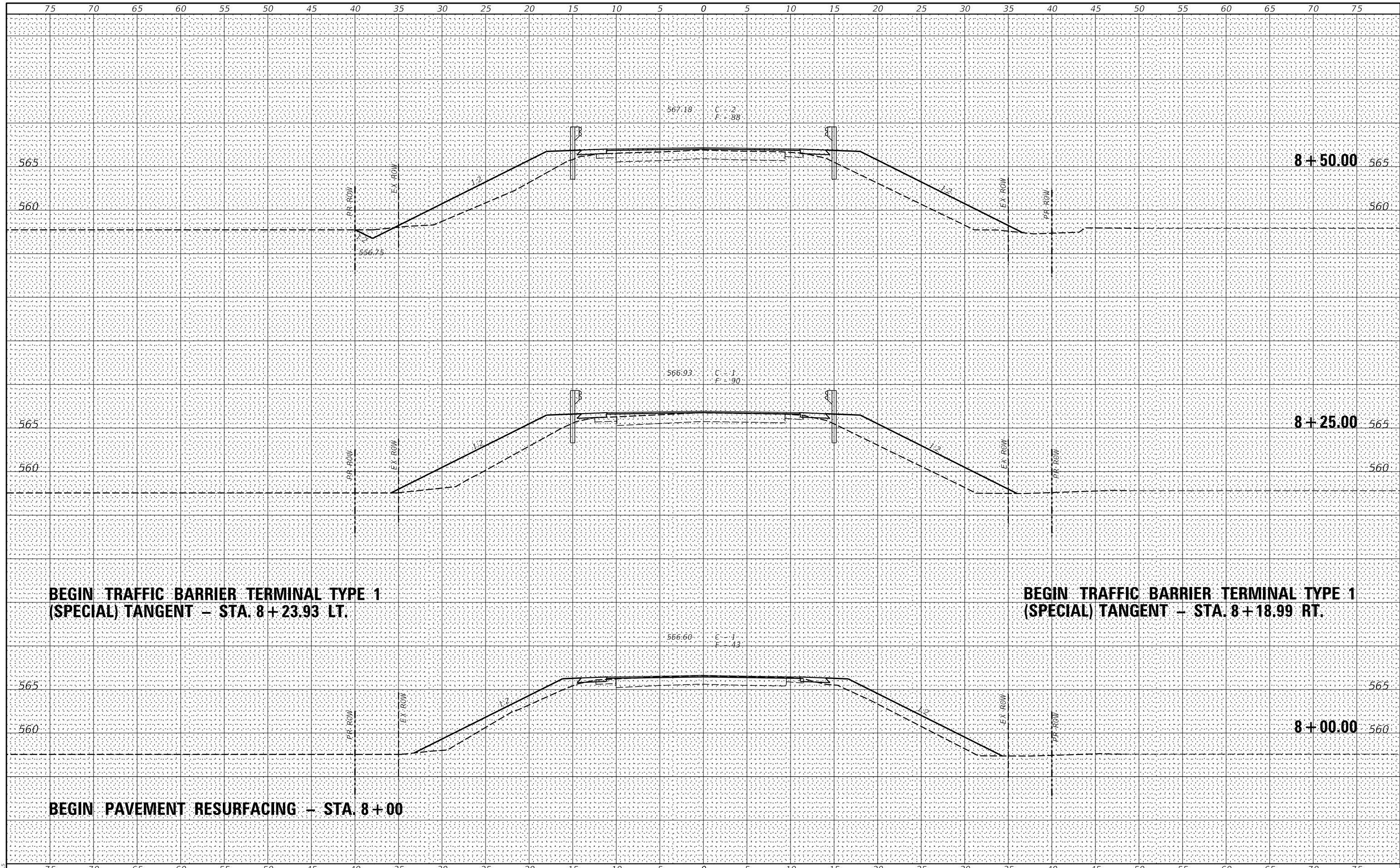
CROSS SECTIONS

SCALE: 1" = 5' SHEET 1 OF 6 SHEETS STA. 7+25.00 TO STA. 7+75.00

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	22
CONTRACT NO. 93776				
ILLINOIS		FED. AID PROJECT		

DATE	BY
SURVEYED	TEMPLATED
NOTED	AREAS CHECKED
NO.	

DATE	BY
SURVEYED	TEMPLATED
NOTED	AREAS CHECKED
NO.	



BEGIN TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT – STA. 8+23.93 LT.

BEGIN TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT – STA. 8+18.99 RT.

BEGIN PAVEMENT RESURFACING – STA. 8+00

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	CHECKED - _____	REVISED - _____
PLOT DATE = \$DATE\$	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: 1" = 5' SHEET 2 OF 6 SHEETS STA. 8+00.00 TO STA. 8+50.00

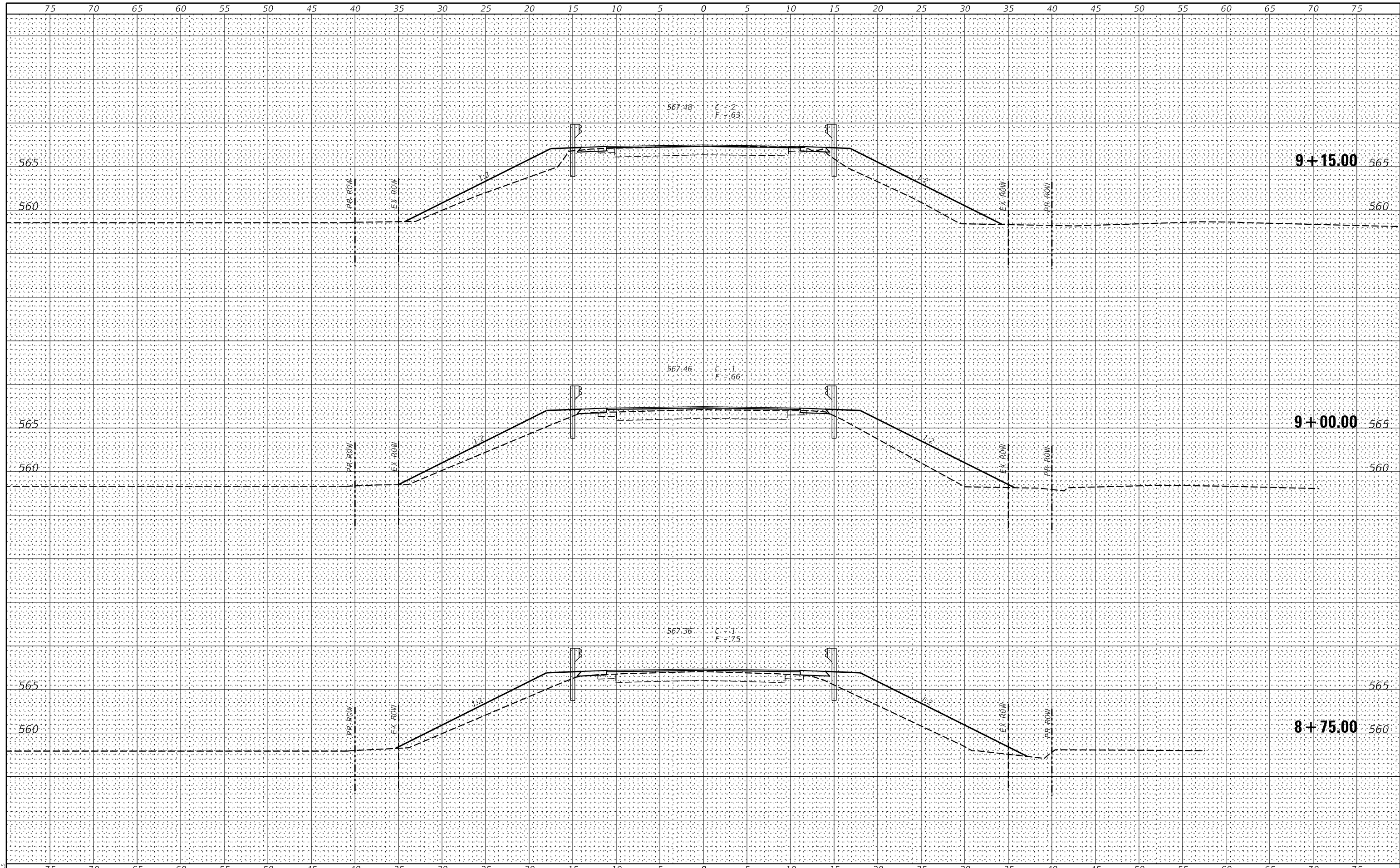
C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	23
CONTRACT NO. 93776				
ILLINOIS			FED. AID PROJECT	

MODEL: \$MODELNAME\$
FILE NAME: \$FILES\$

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

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

MODEL: \$MODELNAME\$
FILE NAME: \$FILES\$



USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	CHECKED - _____	REVISED - _____
PLOT DATE = \$DATE\$	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

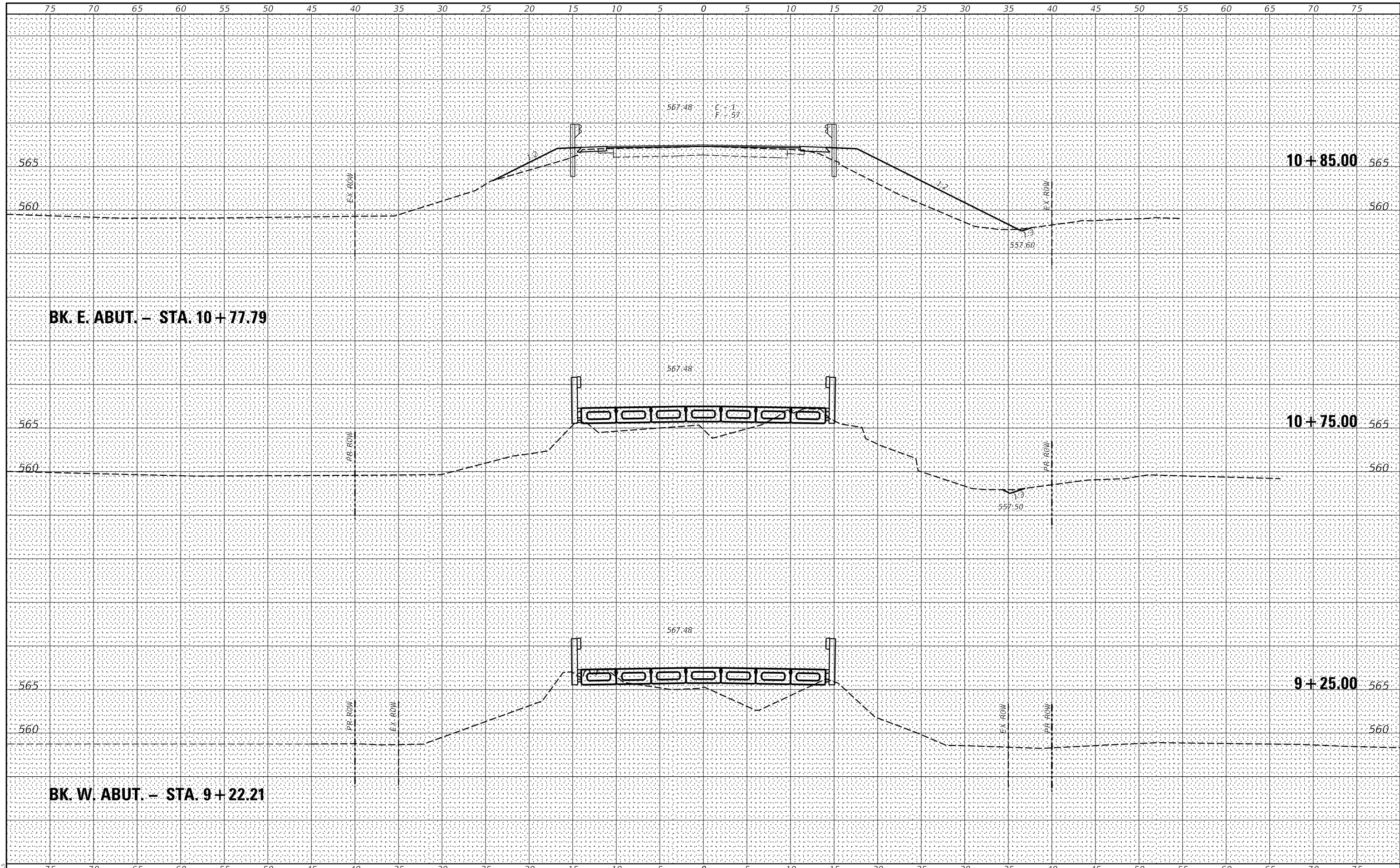
CROSS SECTIONS

SCALE: 1" = 5' SHEET 3 OF 6 SHEETS STA. 8+75.00 TO STA. 9+15.00

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	24
CONTRACT NO. 93776				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



MODEL: SPODELMMMS
FILE NAME: STILES

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	CHECKED - _____	REVISED - _____
PLOT DATE = \$DATE\$	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

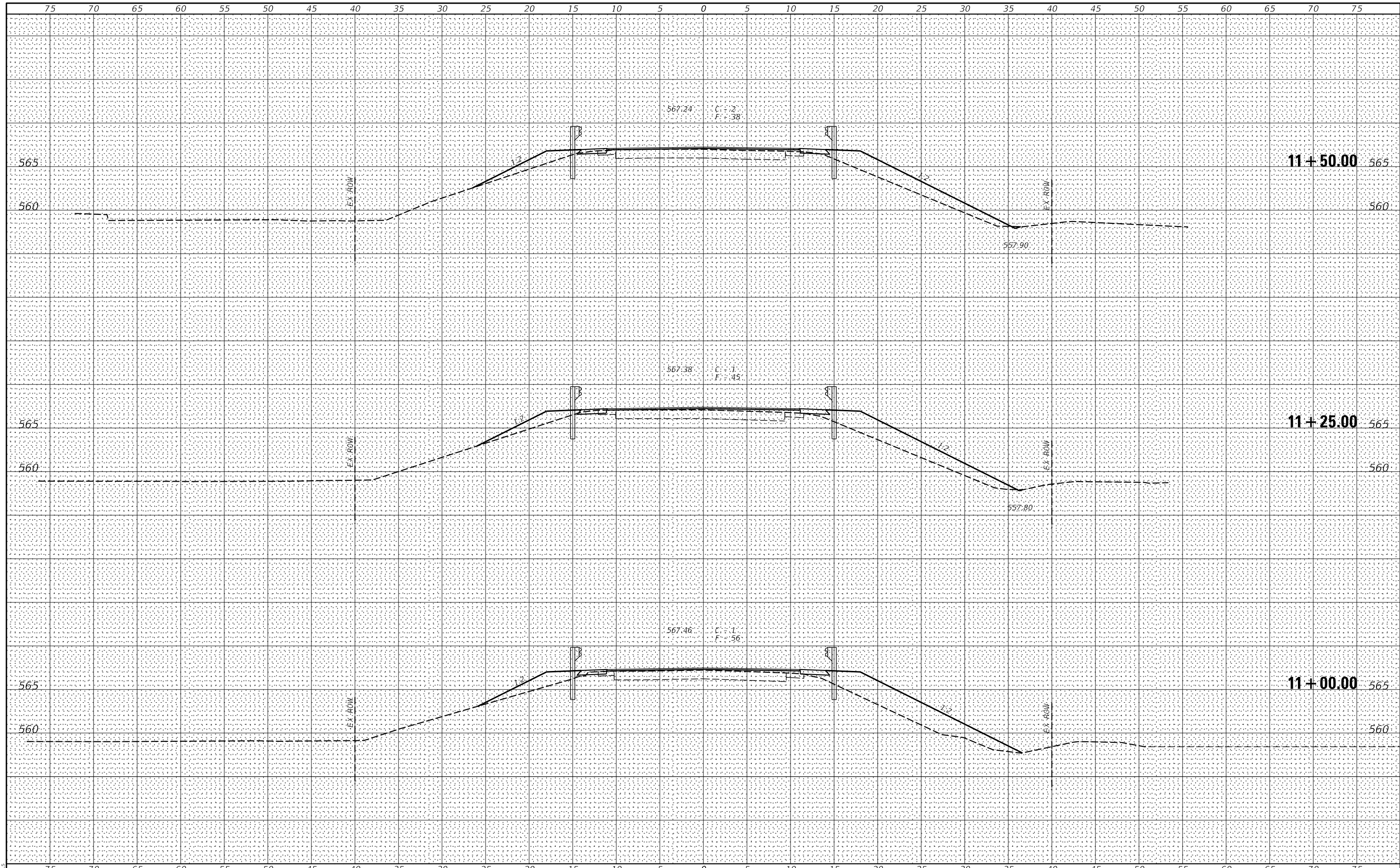
CROSS SECTIONS

SCALE: 1" = 5' SHEET 4 OF 6 SHEETS STA. 9+25.00 TO STA. 10+85.00

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	25
CONTRACT NO. 93776				
ILLINOIS		FED. AID PROJECT		

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



MODEL: \$MODELNAME\$
FILE NAME: \$FILES\$

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	CHECKED - _____	REVISED - _____
PLOT DATE = \$DATE\$	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

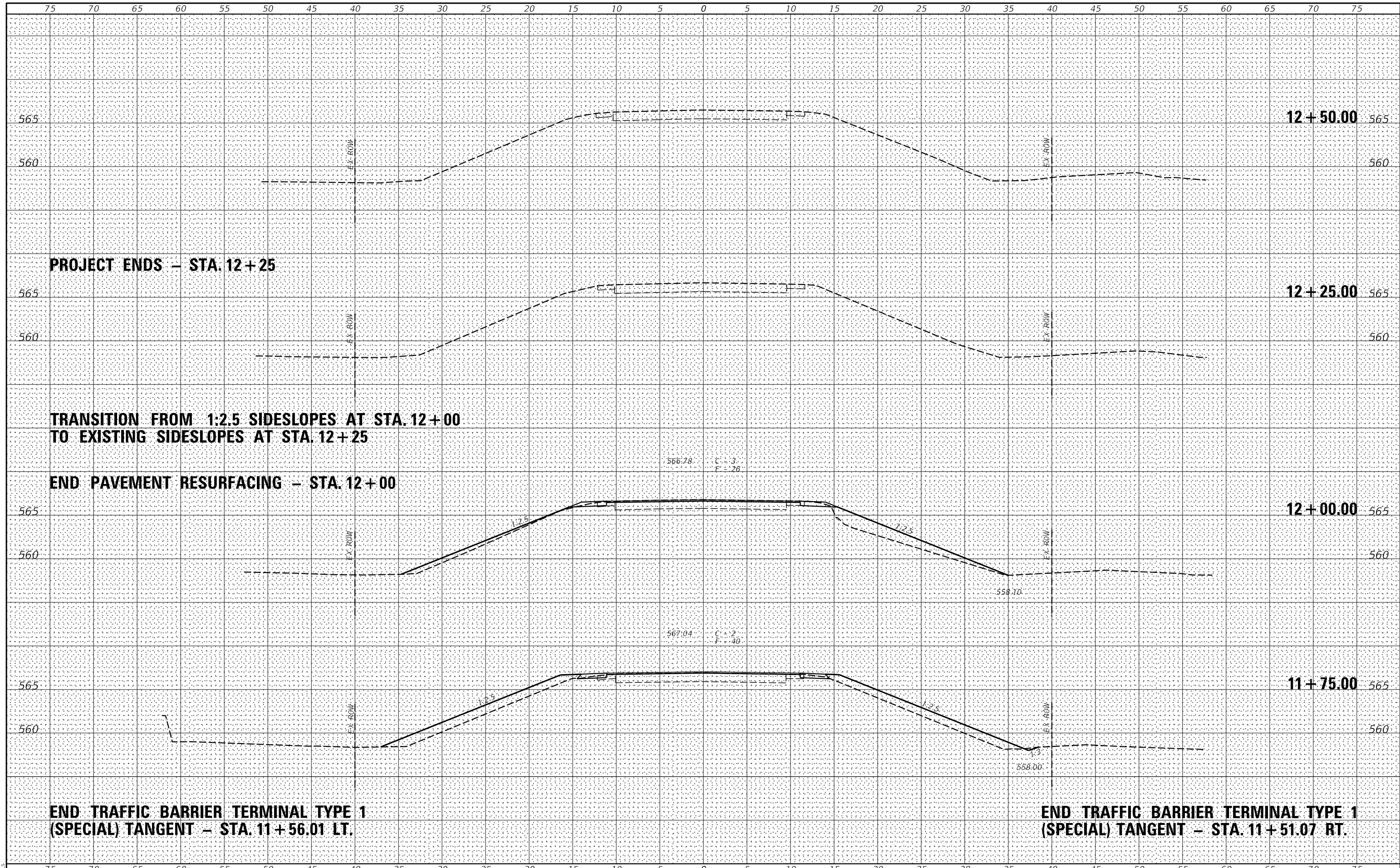
CROSS SECTIONS

SCALE: 1" = 5' SHEET 5 OF 6 SHEETS STA. 11+00.00 TO STA. 11+50.00

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-0091-01-BR	LOGAN	27	26
CONTRACT NO. 93776				
ILLINOIS		FED. AID PROJECT		

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

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



PROJECT ENDS - STA. 12+25

12+50.00

12+25.00

TRANSITION FROM 1:2.5 SIDESLOPES AT STA. 12+00 TO EXISTING SIDESLOPES AT STA. 12+25

END PAVEMENT RESURFACING - STA. 12+00

12+00.00

11+75.00

END TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT - STA. 11+56.01 LT.

END TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT - STA. 11+51.07 RT.

MODEL: SPODELMAMES
FILE NAME: SP1EES

USER NAME = \$USERS	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = \$SCALE\$	CHECKED - _____	REVISED - _____
PLOT DATE = \$DATE\$	DATE - _____	REVISED - _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: 1" = 5' SHEET 6 OF 6 SHEETS STA. 11+75.00 TO STA. 12+50.00

C.H. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	17-00091-01-BR	LOGAN	27	27
CONTRACT NO. 93776				
ILLINOIS FED. AID PROJECT				