

04-28-2017 LETTING ITEM 202

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

TRAFFIC DATA:

FUNCTIONAL CLASSIFICATION: URBAN LOCAL STREET
 NEW CONSTRUCTION/RECONSTRUCTION GUIDELINES
 2018 ADT = 552
 2038 ADT = 820
 % TRUCKS = 6
 DESIGN SPEED: 30 M.P.H.
 POSTED SPEED: 25 M.P.H.

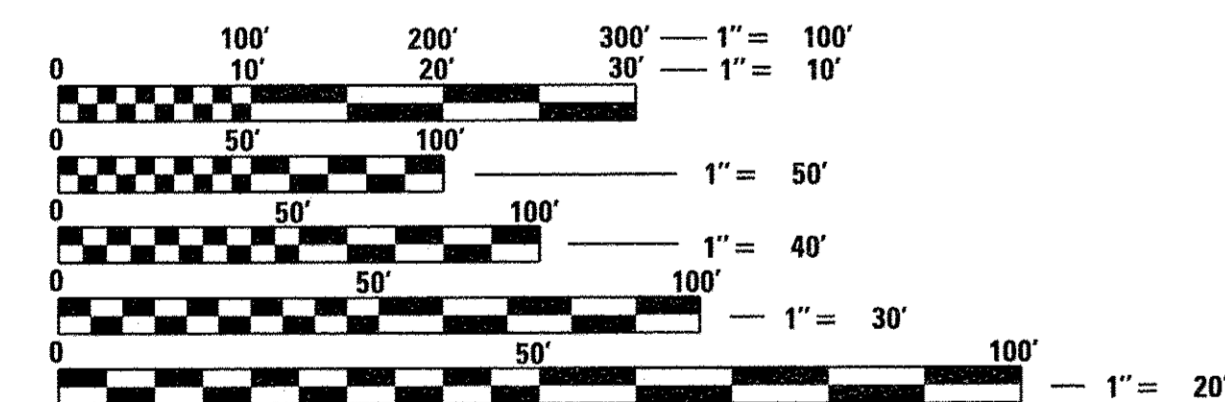
UTILITY CONTACT INFORMATION:

CITY OF MOUNT CARROLL NICOR GAS
 ATTN: MR. RUSSELL HANDEL ATTN: MR. BRUCE KOPPANG
 302 NORTH MAIN STREET 1844 FERRY ROAD
 MOUNT CARROLL, ILLINOIS 61053 NAPERVILLE, ILLINOIS 60563
 PHONE: (815) 244-5921

JO-CARROLL ENERGY
 ATTN: MR. BOB PELELO
 793 WEST U.S. 20
 P.O. BOX 390
 ELIZABETH, ILLINOIS 61028
 PHONE: (815) 858-5746

CENTURY LINK
 ATTN: MR. BRAD STOCKHAM
 416 MARGARET STREET
 PEKIN, ILLINOIS 61554
 PHONE: (309) 267-3287

MEDIACOM
 ATTN: MR. MITCH HANCOCK
 112 WEAT 2ND STREET
 CLINTON, IOWA 52732
 PHONE: (309) 743-4735



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 – MAC
 PROJECT MANAGER – BKC

CONTRACT NO. 85654

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
 FEDERAL AID PROJECT
 HIGHWAY BRIDGE PROGRAM**

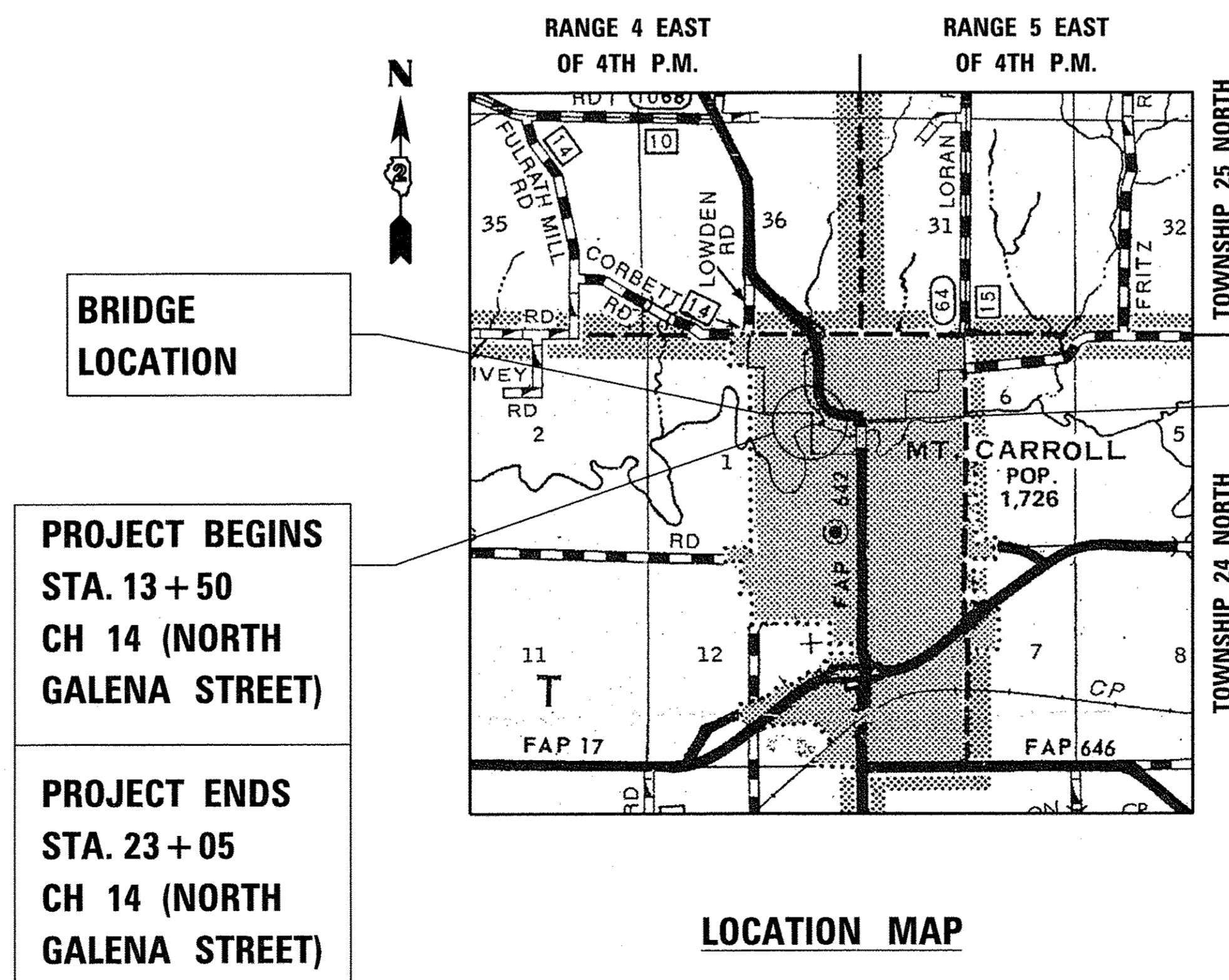
CH 14 (NORTH GALENA STREET) OVER CARROLL CREEK
 STRUCTURE REPLACEMENT
 SECTION 08-00027-00-BR
 PROJECT NO. BROS-0015(050)
 CARROLL COUNTY

C-92-063-13

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	1
WHA# 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-0015(050)				



LOCATION OF SECTION INDICATED THUS: — ■ —



BRIDGE LOCATION

PROJECT BEGINS
 STA. 13+50
 CH 14 (NORTH GALENA STREET)

PROJECT ENDS
 STA. 23+05
 CH 14 (NORTH GALENA STREET)

LOCATION MAP

GROSS LENGTH = 955 FT. = (0.18 MILE)

NET LENGTH = 955 FT. = (0.18 MILE)

PROPOSED STRUCTURE
S.N. 008-6103 A SINGLE SPAN (1 @ 92'-8") PRECAST, PRESTRESSED CONCRETE DECK BEAM BRIDGE ON CLOSED ABUTMENTS AT STA. 20+00. SKEWED 0.
EXISTING STRUCTURE
S.N. 008-6100 A SINGLE SPAN (1 @ 97'-0") STEEL TRUSS BRIDGE ON CLOSED LIMESTONE ABUTMENTS. STA. 307+70. SKEWED 0. TO REMAIN IN PLACE AND REHABILITATED FOR USE AS A WALKING PATH BRIDGE.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS		
APPROVED	<i>[Signature]</i> 2/15/2017 CITY OF MOUNT CARROLL MAYOR	2017
APPROVED	<i>[Signature]</i> 2/15/2017 CARROLL COUNTY ENGINEER	2017
PASSED	<i>[Signature]</i> DISTRICT ENGINEER OF LOCAL ROADS & STREETS	2017
RELEASING FOR BID BASED ON LIMITED REVIEW	<i>[Signature]</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER	2017

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 OF THE STATE OF ILLINOIS**



DATE: 2-14-17
 EXPIRES 11/30-17

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

FILE : S:\PROJECTS\2018\1273D10\CARROLL\County_Galena_St_BRIDGE\STRUCT\Drawings\1273D10\Cover_Sheet.dgn

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STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
424001-09	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE END SECTION
542401-02	METAL END SECTION FOR PIPE CULVERTS
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
602401-03	MANHOLE TYPE A
602701-02	MANHOLE STEPS
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
664001-02	CHAIN LINK FENCE
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPE A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
825011-03	LIGHTING CONTROLLER PEDESTAL MOUNTED, 240V

GENERAL NOTES (CONT.)

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

THE LOCATION AND ELEVATION OF THE UNDERGROUND 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.

THE CONTRACTOR SHALL PROVIDE THE ENGINEER THE FOLLOWING:

1. A LIST OF MATERIALS USED.
2. COPIES OF ALL IDOT MATERIAL CERTIFICATION ASSOCIATED WITH EACH MATERIAL USED.
3. A SIGNED COPY OF ALL MATERIAL TESTING COMPANY RESULTS ON A WEEKLY BASIS. WEEKLY FIELD REPORTS SHALL BE PROVIDED ON THE APPROPRIATE IDOT FORM.
4. A CERTIFICATION LETTER THAT CERTIFIES COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.

COMMITMENTS

ALL CHANNEL EXCAVATED MATERIAL ALONG CARROLL CREEK FROM STA. 4998+50 TO 5000+00 SHALL BE DELIVERED TO PARCEL 005/1ITE LOCATED TO THE NORTHWEST OF THE EXISTING STRUCTURE. THIS VOLUME HAS BEEN DEDUCTED FROM PROJECT EMBANKMENT CALCULATIONS.

HORIZONTAL CONTROL

PT. #	STA.	N	E	EL.	DESCRIPTION
103	STA. 22+40.51	108.75' RT	1980474.77	2346795.60	719.08 3/8" I.P. SET
104	STA 13+40.95	48.12' LT	1979548.91	2346691.28	721.77 PK NAIL
105	STA 22+36.20	10.86' RT	1980468.58	2346695.82	723.47 -
106	STA 20+26.29	0.92' RT	1980258.35	2346692.44	711.08 -

BENCHMARKS

BM #	STA.	DESCRIPTION	ELEV.
1	46' LT. OF STA. 13+38	P.K. NAIL SET W/ GPS	721.67
2	33.6' RT. OF STA. 19+27	R.R. SPIKE IN P.P. AT SE QUAD OF BRIDGE	716.12
3	-	CHIS. "□" ON THE NW HEADWALL OF EXIST. BRIDGE	722.50
4	60.3' RT. OF STA. 22+03	SOUTH EDGE OF MH AT SE QUADRANT OF STATE STREET AND GALENA STREET	718.80
5	110.8' RT. OF STA. 22+39	5/8" I.P. SET W/ GPS ON E. SIDE OF ROAD	719.08

GENERAL NOTES

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.

EXISTING STREET SIGNS AND TRAFFIC SIGNS THAT ARE WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AND RESET BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.25.

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 ITEM BEING REMOVED.

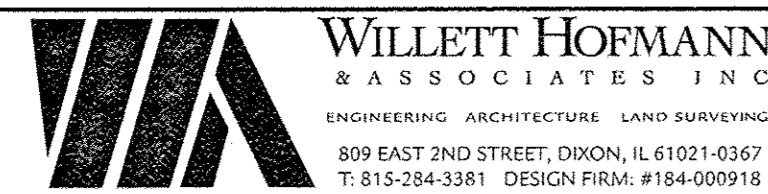
NO OVERHAUL HAS BEEN COMPUTED AND NONE SHALL BE PAID FOR FROM ANY SOURCE.

BITUMINOUS MATERIALS (PRIME COAT) SHALL BE RC-70 OR SS-1 ON BITUMINOUS AND MC-30 OR P.E.P. ON AGGREGATE AND SHALL BE APPLIED AT THE RATE OF 0.025-0.25 POUNDS PER SQUARE FOOT, OR AS DIRECTED BY THE ENGINEER.

THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION.

A PROOF ROLL OF THE SUBGRADE IS REQUIRED PRIOR TO PLACING THE AGGREGATE SUB-BASE AND MUST BE OBSERVED BY THE ENGINEER. NOTIFY THE ENGINEER PRIOR TO DOING THE PROOF ROLL.

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DESIGNED - LGN	REVISED -
CHECKED - GFS	REVISED -
DRAWN - LGN	REVISED -
CHECKED - GFS	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

INDEX OF SHEETS, STANDARDS, GENERAL NOTES,
COMMITMENTS, & CONTROL

SHEET NO. 1 OF 1 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	2
WHA# 1273010		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-0015050				

SUMMARY OF QUANTITIES

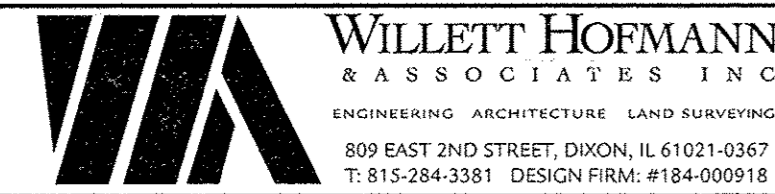
ITEM NO.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
					0008	0014
1	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	263	263	
2	20300100	CHANNEL EXCAVATION	CU YD	3,475	3,475	
3	20400800	FURNISHED EXCAVATION	CU YD	1,310	1,310	
4	20800150	TRENCH BACKFILL	CU YD	430	430	
5	25000310	SEEDING, CLASS 4	ACRE	0.56	0.56	
6	25100630	EROSION CONTROL BLANKET	SQ YD	10,650	10,650	
7	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	220	220	
8	28000305	TEMPORARY DITCH CHECKS	FOOT	72	72	
9	28000400	PERIMETER EROSION BARRIER	FOOT	1,591	1,591	
10	28000500	INLET AND PIPE PROTECTION	EACH	6	6	
11	28100107	STONE RIPRAP, CLASS A4	SQ YD	132	132	
12	28100109	STONE RIPRAP, CLASS A5	SQ YD	812	812	
13	28200200	FILTER FABRIC	SQ YD	944	944	
14	30300011	AGGREGATE SUBGRADE IMPROVEMENT	TON	1,806	1,806	
15	31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	627	627	
16	35101400	AGGREGATE BASE COURSE, TYPE B	TON	305	305	
17	40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4,645	4,645	
18	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	413	413	
19	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	237	237	
20	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	251	251	
21	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	5,127.5	5,127.5	
22	42400800	DETECTABLE WARNINGS	SQ FT	58	58	
23	48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	102	102	
24	48203013	HOT-MIX ASPHALT SHOULDERS, 4"	SQ YD	70	70	
25	50102400	CONCRETE REMOVAL	CU YD	42		42
26	50105220	PIPE CULVERT REMOVAL	FOOT	90	90	
27	50200100	STRUCTURE EXCAVATION	CU YD	103	96	7
28	50300225	CONCRETE STRUCTURES	CU YD	201.1	191.1	10.0
29	50300255	CONCRETE SUPERSTRUCTURE	CU YD	22.1	22.1	
30	50300260	BRIDGE DECK GROOVING	SQ YD	259	259	
31	50300300	PROTECTIVE COAT	SQ YD	361	361	
32	50400705	PRECAST PRESTRESSED CONCRETE DECK BEAMS (42" DEPTH)	SQ FT	2,965	2,965	
33	50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1		1
34	50700205	UNTREATED TIMBER	FBM	8,198		8,198
35	50700305	HARDWARE	POUND	251		251
36	50800105	REINFORCEMENT BARS	POUND	34,390	34,390	
37	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	58,273	57,090	1,183
38	50800515	BAR SPLICERS	EACH	531	531	
39	51500100	NAME PLATES	EACH	2	1	1
40	51603000	DRILLED SHAFT IN SOIL	CU YD	53.5	53.5	
41	51604000	DRILLED SHAFT IN ROCK	CU YD	60.6	60.6	
42	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	1	1	
43	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	3	3	
44	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	1	1	
45	542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	14	14	
46	542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	96	96	
47	542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	47	47	
48	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	23	23	
49	56102900	DUCTILE IRON WATER MAIN 4"	FOOT	4	4	
50	56103100	DUCTILE IRON WATER MAIN 8"	FOOT	4	4	
51	56103200	DUCTILE IRON WATER MAIN 10"	FOOT	312	312	
52	56105100	WATER VALVES 10"	EACH	2	2	
53	56105430	INSERTING VALVES 4"	EACH	2	2	
54	56105600	INSERTING VALVES 8"	EACH	2	2	
55	56400820	FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX	EACH	1	1	
56	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	98	98	
57	60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2	2	
58	60100905	PIPE DRAINS 4"	FOOT	1,373	1,373	
59	60218300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	1	1	
60	60266600	VALVE BOXES TO BE ADJUSTED	EACH	4	4	
61	60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,100.5	1,100.5	
62	63200310	GUARDRAIL REMOVAL	FOOT	154	154	
63	66400305	CHAIN LINK FENCE, 6'	FOOT	10		10
64	67100100	MOBILIZATION	L SUM	1	1	
65	72000100	SIGN PANEL - TYPE 1	SQ FT	24.50	14.50	10.00
66	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	26	26	
67	78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	56	56	
68	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	17	17	
69	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	10	10	
70	81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	25	25	
71	81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	40	40	
72	81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	110	110	

ITEM NO.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
					0008	0014
73	81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE.	EACH	6	6	
74	81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	645	645	
75	82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1	1	
76	X0324082	RIFLE STRUCTURE	EACH	2	2	
77	X0326654	ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	2	2	
78	X1400023	CONDUIT, FLEXIBLE, LIQUID TIGHT, METALLIC, 2" DIAMETER	FOOT	18	18	
79	X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	2,330	2,330	
80	X2501020	SEEDING, CLASS 2A (SPECIAL)	ACRE	1.64	1.64	
81	X5030221	CONCRETE ENCASEMENT	CU YD	10	10	
82	X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	345	345	
83	X5610704	WATER MAIN REMOVAL, 4"	FOOT	214	214	
84	X5610708	WATER MAIN REMOVAL, 8"	FOOT	261	261	
85	X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	154	148	6
86	X6024240	INLETS, SPECIAL	EACH	3	3	
87	X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	4	4	
88	X6028300	INLETS TO BE REMOVED, SPECIAL	EACH	1	1	
89	X6026051	SANITARY MANHOLES TO BE RECONSTRUCTED	EACH	1	1	
90	X6060097	CLASS SI CONCRETE (OUTLET), SPECIAL	CU YD	6.3	6.3	
91	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
92	X8040102	ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1	1	
93	XX008022	MASONRY CLEANING AND TUCKPOINTING	L SUM	1		1
94	XX006858	RAILING	FOOT	219		219
95	XX175400	MISCELLANEOUS IRON CASTINGS	EACH	155		155
96	Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1		1
97	Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1		1
98	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
99	Z0027800	GEOTECHNICAL FABRIC	SQ YD	1,836	1,836	
100	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	116	116	
101	Z0003618	REMOVAL OF EXISTING TIMBER FLOOR	EACH	1		1
102	Z0051400	REMOVING AND RESETTING POSTS	EACH	2		2
103	XX005855	WATER MAIN CASING PIPE	FOOT	66	66	
104	X8140105	HANDHOLE (SPECIAL)	EACH	2	2	

* INDICATES SPECIAL PROVISIONS OR SPECIAL PLAN DETAIL

Δ SPECIALTY ITEMS

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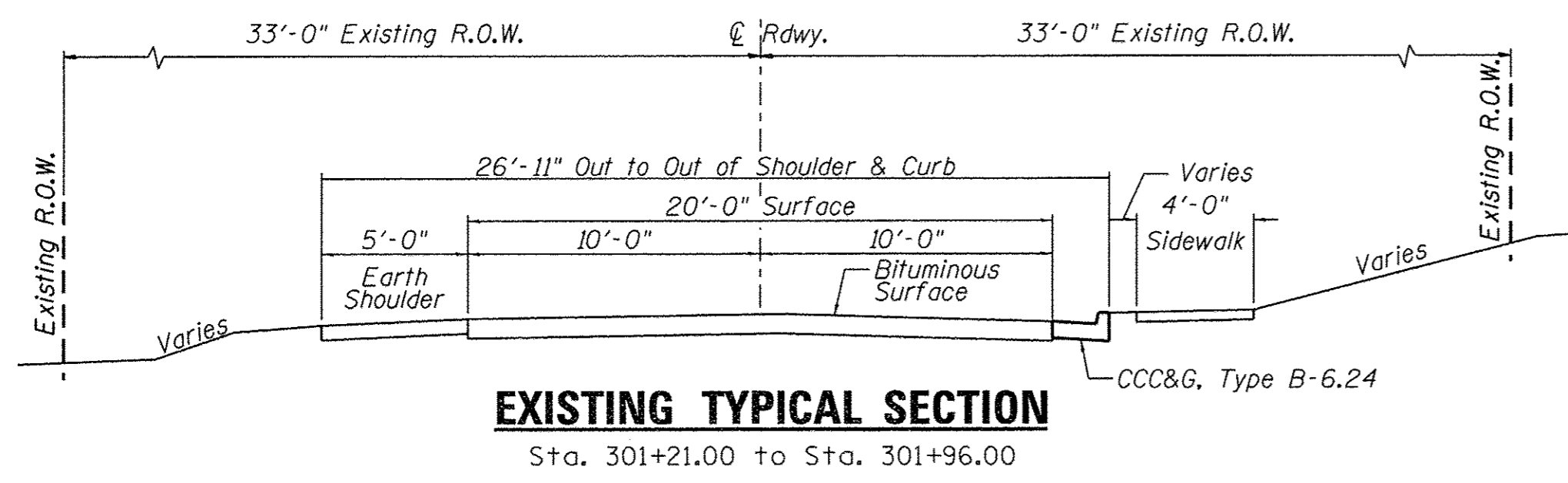
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CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

SUMMARY OF QUANTITIES

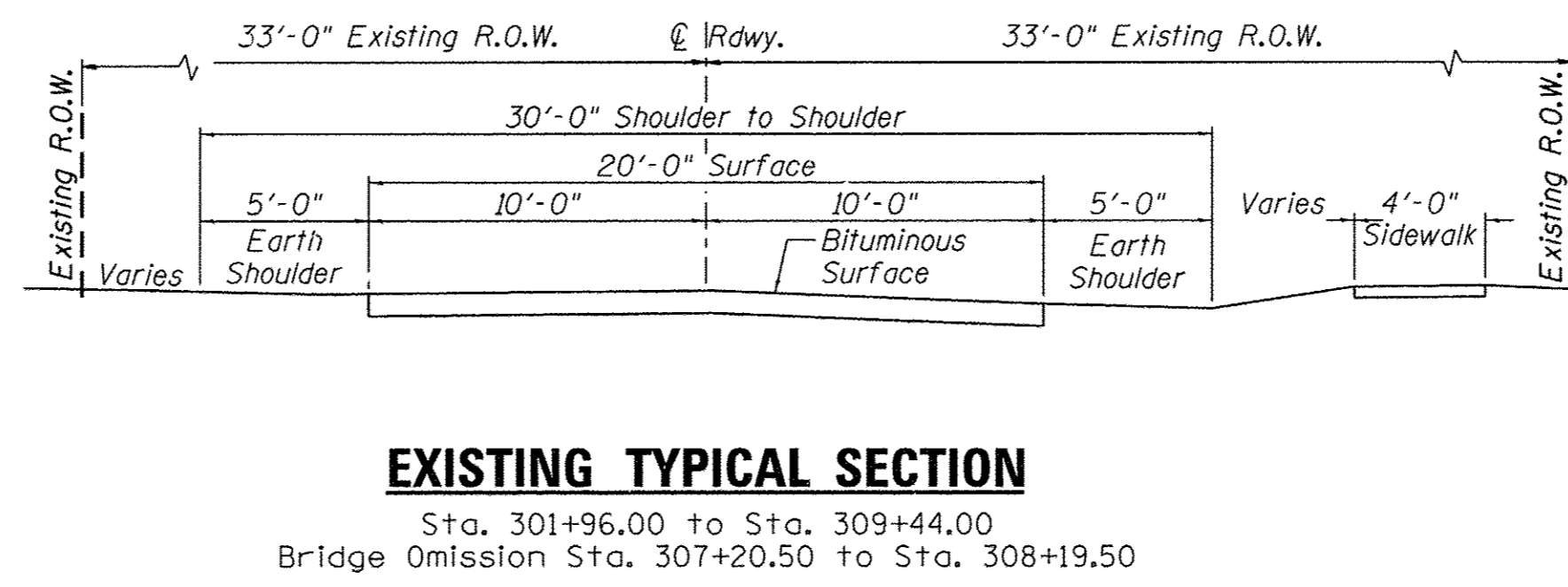
SHEET NO. 1 OF 1 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	3
WHA* 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00150501				



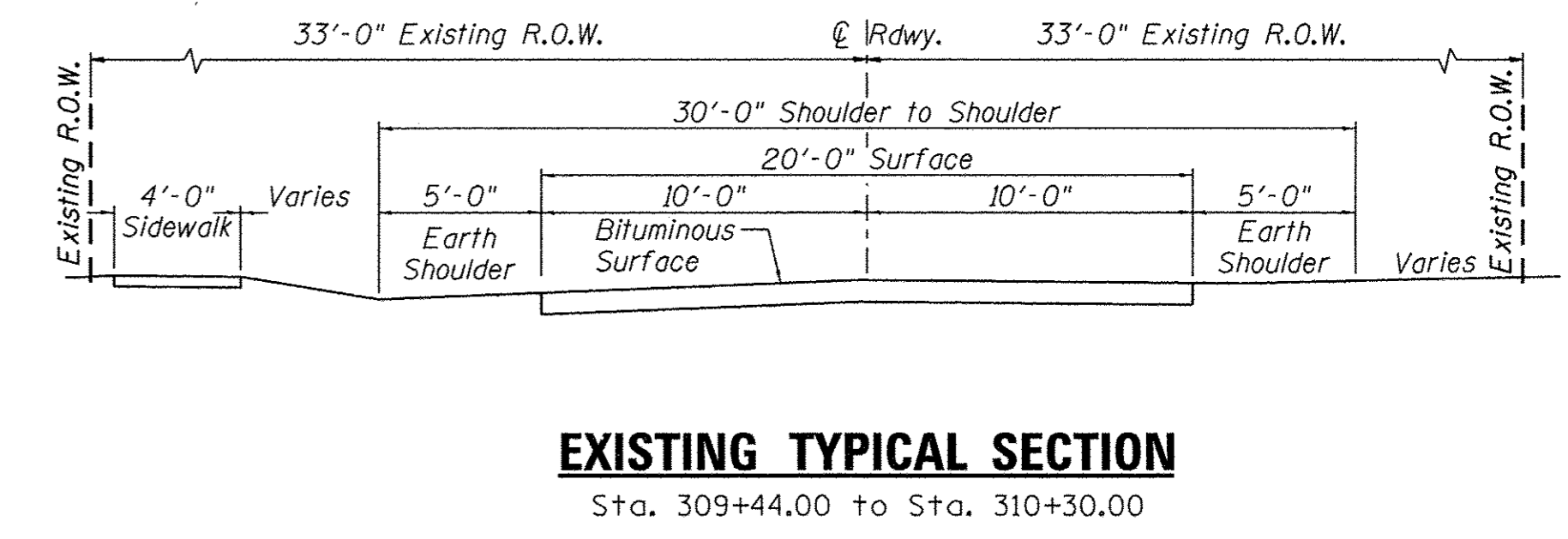
EXISTING TYPICAL SECTION

Sta. 301+21.00 to Sta. 301+96.00



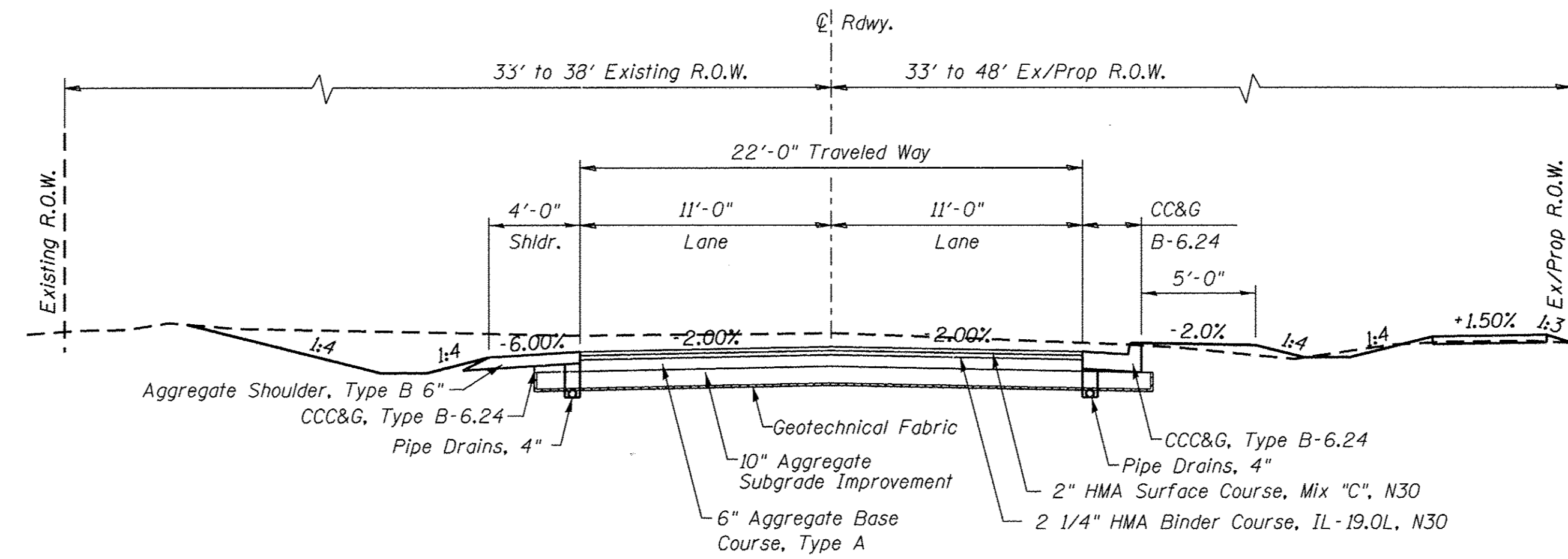
EXISTING TYPICAL SECTION

Sta. 301+96.00 to Sta. 309+44.00
Bridge Omission Sta. 307+20.50 to Sta. 308+19.50



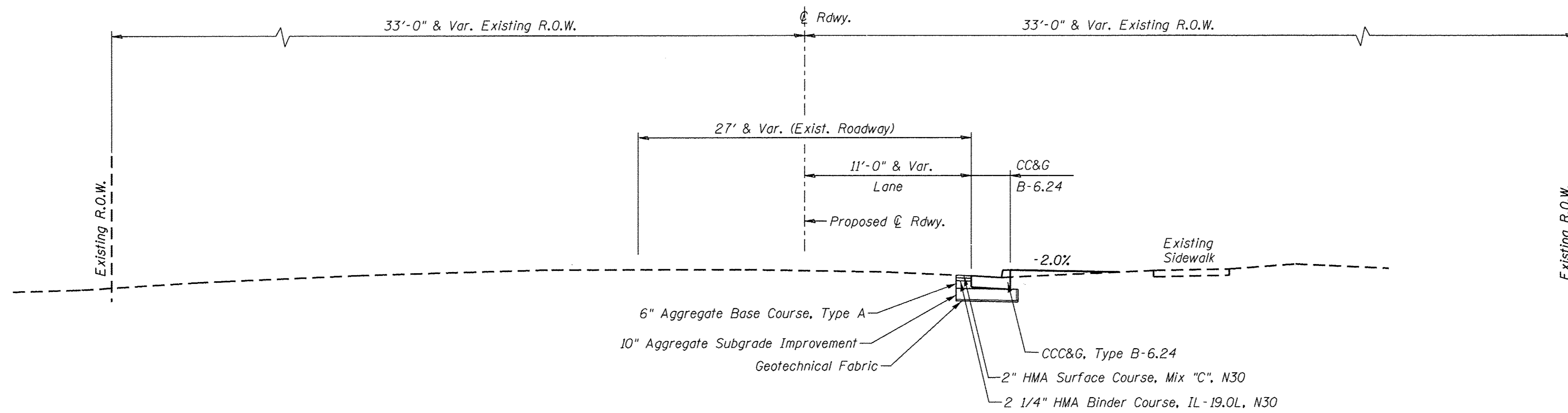
EXISTING TYPICAL SECTION

Sta. 309+44.00 to Sta. 310+30.00



PROPOSED ROADWAY TYPICAL SECTION

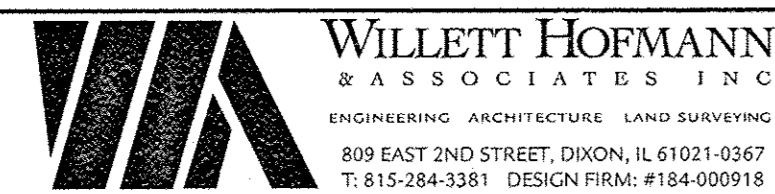
(NORTH GALENA STREET LOOKING NORTH)
STA. 15+00.00 TO STA. 17+00.00



PROPOSED ROADWAY TYPICAL SECTION

(NORTH GALENA STREET LOOKING NORTH)
STA. 13+50.00 TO STA. 15+00.00

FILE = S:\PROJECTS\2810\1273010_Carroll\County_Galena_St_Over_Carroll_Creek\DESIGN\STRUCT\Drawings\1273010_Typical.dgn



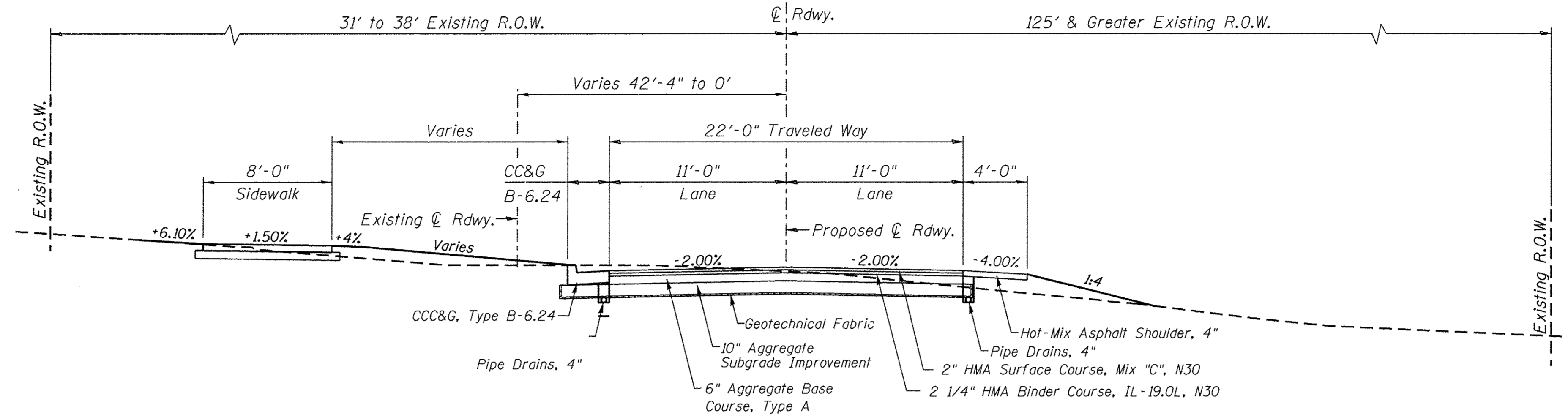
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CHECKED - GFS	REVISED -
DRAWN - LGN	REVISED -
CHECKED - GFS	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

TYPICAL SECTIONS

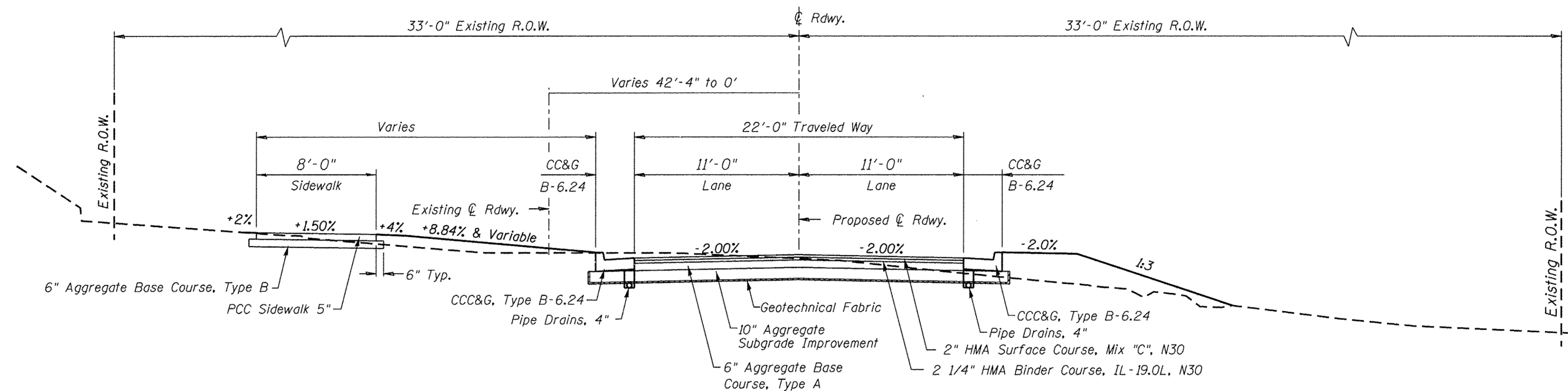
SHEET NO. 1 OF 3 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	4
WHA# 1273010		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-0015(050)				



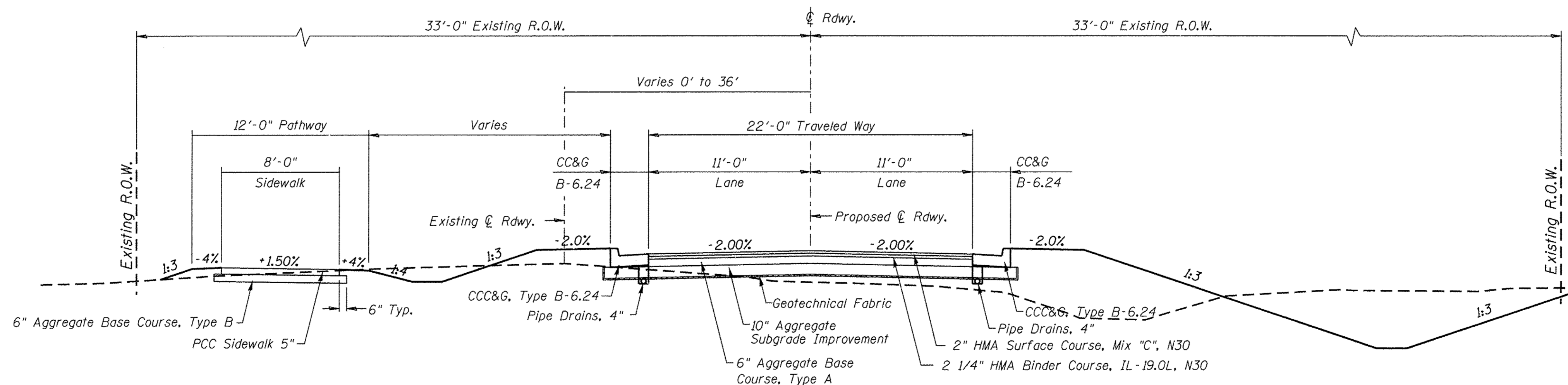
PROPOSED ROADWAY TYPICAL SECTION

(NORTH GALENA STREET LOOKING NORTH)
STA. 22+10.82 TO STA. 22+55.00



PROPOSED ROADWAY TYPICAL SECTION

(NORTH GALENA STREET LOOKING NORTH)
STA. 20+48.50 TO STA. 22+10.82



PROPOSED ROADWAY TYPICAL SECTION

(NORTH GALENA STREET LOOKING NORTH)
STA. 17+00.00 TO STA. 19+51.50
BRIDGE OMISSION STA. 19+51.50 TO 20+48.50

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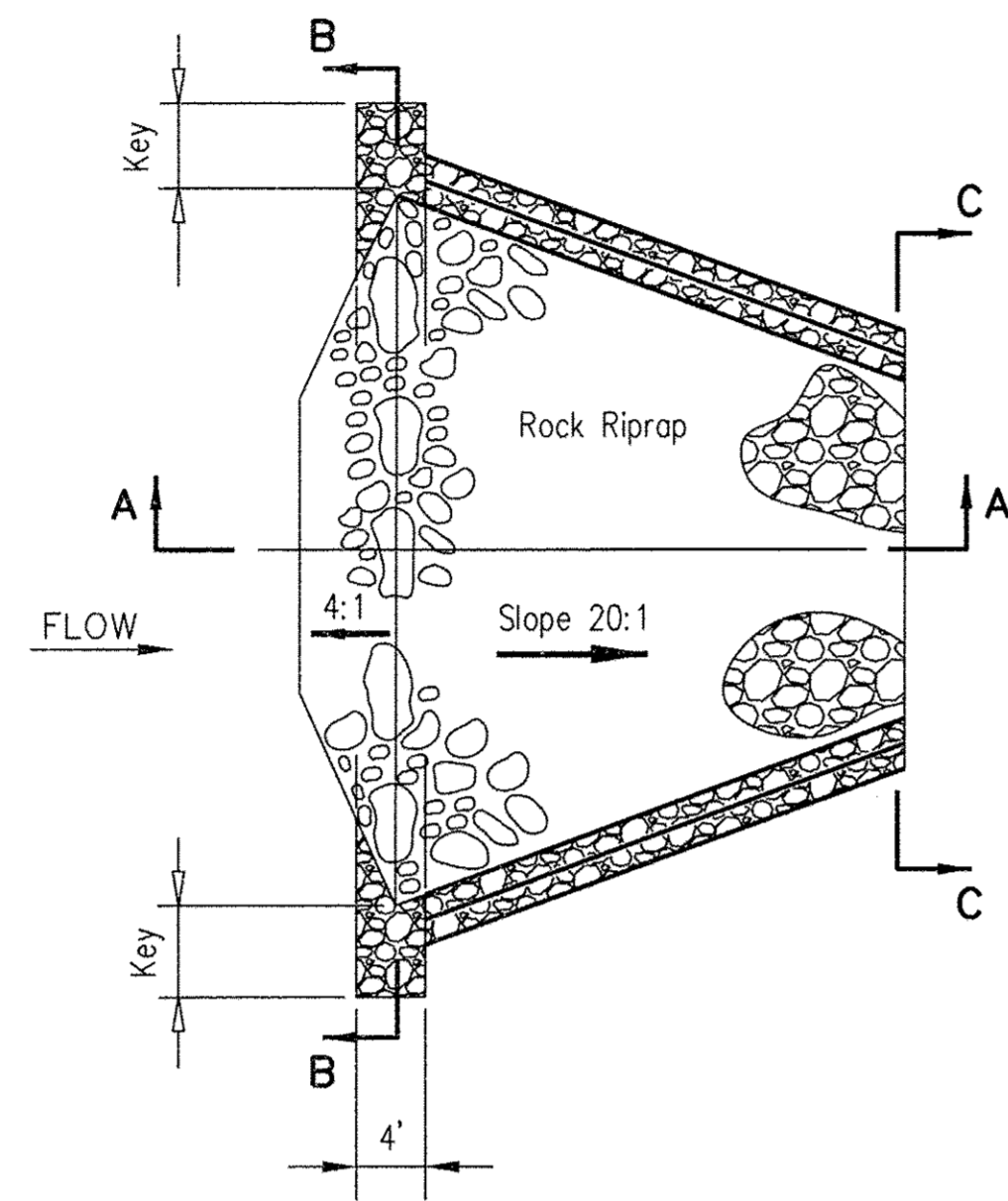
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CHECKED - GFS	REVISED -
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CHECKED - GFS	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

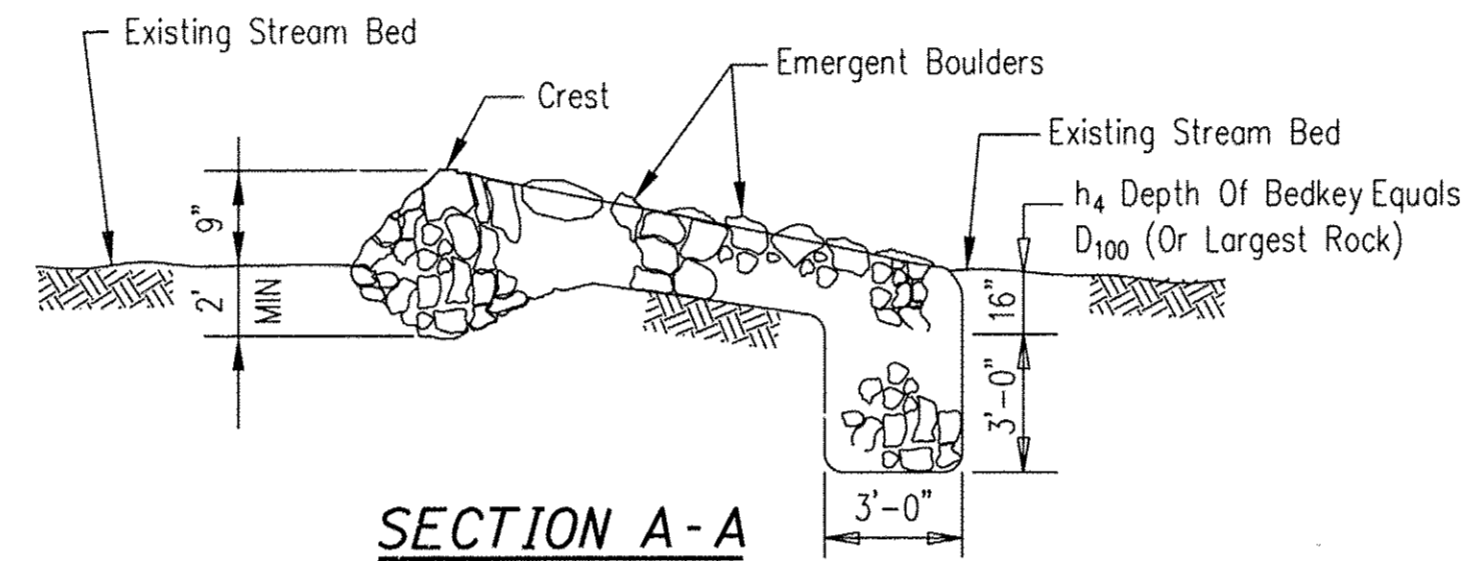
TYPICAL SECTIONS

SHEET NO. 2 OF 3 SHEETS

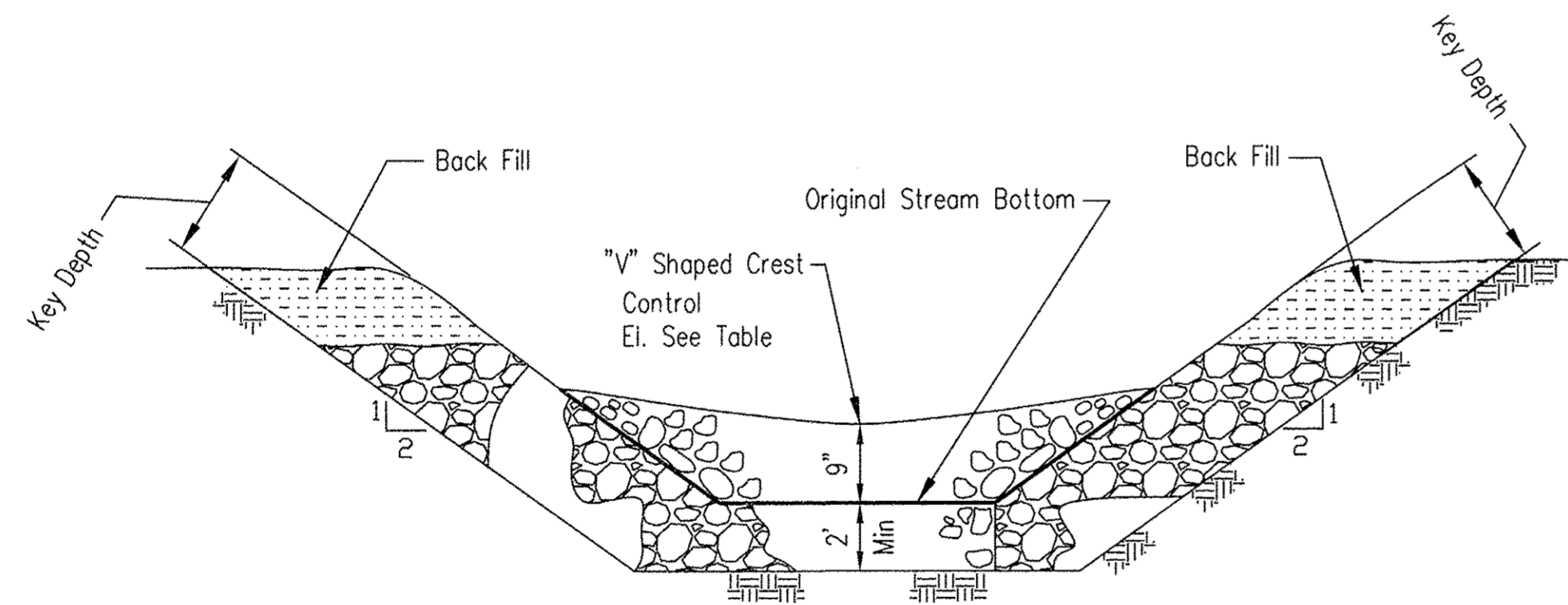
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	5
WHA# 1273010		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00150501				



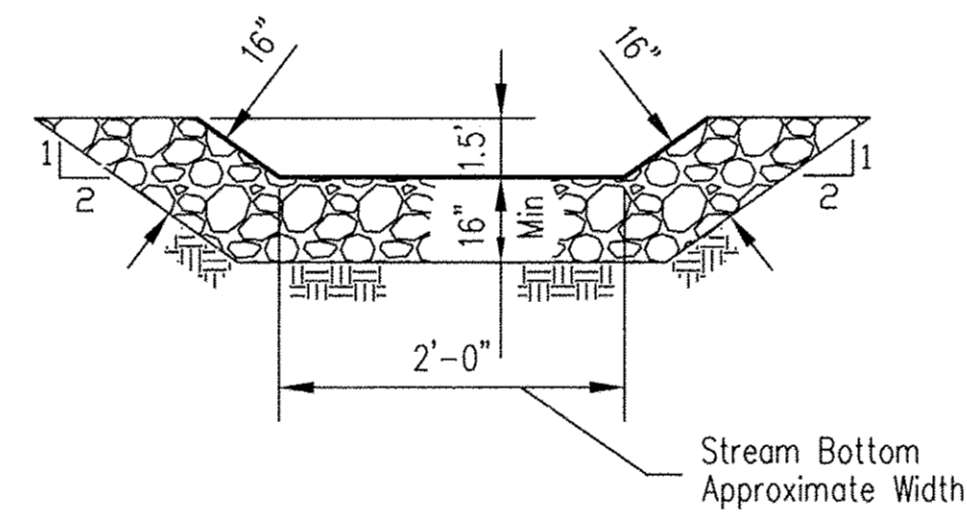
PLAN



SECTION A-A



SECTION B-B



SECTION C-C

- NOTES:
1. Rock gradation shall meet IDOT requirement for GRAD. NO. RR4 riprap, quality designation "A", or as designated by Engineer.
 2. Use largest individual stones from available material as shown for the emergent boulders and crest stone.

PROPOSED ROCK RIFFLE DETAILS

PAVEMENT STRUCTURAL DESIGN

STRUCTURAL DESIGN TRAFFIC (S.D.T.) = YEAR 2028
 CLASS IV ROAD
 80,000# TRUCK DESIGN

P.V. 592
 S.U. 47
 M.U. 34 } 673 ADT

ERI : 2 KSI (POOR SUBGRADE)
 TF = N/A
 HMA MIX TEMP. = N/A
 HMA E_{AC} = N/A
 HMA DESIGN STRAIN = N/A

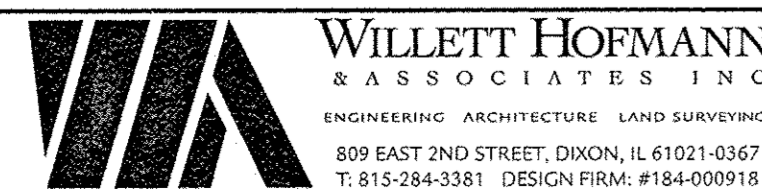
USE:
 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50
 2 1/4" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50
 6" AGGREGATE BASE COURSE, TYPE A
 10" AGGREGATE SUBGRADE IMPROVEMENT
 NON-WOVEN GEOTECHNICAL FABRIC

SEE SECTION 44-3.03(b) OF THE LOCAL ROADS AND STREETS MANUAL

PAVEMENT MIXTURE REQUIREMENTS

MIXTURE USE:	BINDER	SURFACE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0 @ N50	4.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL-19.0	IL-9.5
FRICTION AGGREGATE	N/A	MIX "C"
MIXTURE WEIGHT:	112 LBS/SY/IN	112 LBS/SY/IN

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CHECKED - GFS	REVISED -

CARROLL COUNTY
 NORTH GALENA ST OVER CARROLL CREEK
 STATION 20+00

TYPICAL SECTIONS

SHEET NO. 3 OF 3 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	6
WHA# 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-0015(050)				

SCHEDULE OF QUANTITIES

EARTHWORK SCHEDULE

A	B	C	D	E	F	
LOCATION	EARTH EXCAVATION (SPECIAL) X2020410 (CY)	CHANNEL EXCAVATION 20300100 (CY)	(0.5 X B) CHANNEL EXCAVATION REDUCED 50%	(0.75 X (A+C)) EXCAVATION ADJUSTED FOR SHRINKAGE 25%	EMBANKMENT	(E-D) FURNISHED EXCAVATION 20400800 (CY)
GALENA STREET	2,330		1,101	2,573	3,883	1,310
CARROLL CREEK STA. 4998+50 TO 5000+00		1,273*				
CARROLL CREEK STA. 5000+00 TO 5001+30		1,122				
CARROLL CREEK TRIBUTARY		1,080				
TOTALS	2,330	3,475				1,310

*SEE SHEET 2 FOR PROJECT COMMITMENT

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

STATION	CU YD	REMARKS
N GALENA ST		
CONTINGENCY	263	10% OF EARTH EXCAVATION
PROJECT TOTAL	263	

20201200

TRENCH BACKFILL

STATION	CU YD	REMARKS
N GALENA ST		
STA 16+97 TO STA 17+09 (LT)	1	15" PIPE
STA 16+97 TO STA 17+06 (RT)	1	15" PIPE
STA 17+50	6	18" PIPE
18+84 RT 23' - 20+98 RT 34'	180	4" WATER MAIN REMOVAL
18+69 RT 6' - 21+30 RT 4'	232	8" WATER MAIN REMOVAL
STA 20+55	10	12" PIPE
PROJECT TOTAL	430	

20800150

SEEDING, CLASS 4

STATION	ACRE	REMARKS
N GALENA ST		
RT 19+95 TO 21+97	0.56	
PROJECT TOTAL	0.56	

25000310

EROSION CONTROL BLANKET

STATION	SO YD	REMARKS
N GALENA ST		
RT 19+95 TO 21+97	2,704	
LT 15+00 TO 15+56	123	
LT 15+92 TO 19+51	916	
LT 20+48 TO 22+53	501	
RT 13+50 TO 19+76	1,736	
RT 19+65 TO 22+66	4,670	
PROJECT TOTAL	10,650	

25100630

TEMPORARY EROSION CONTROL SEEDING

STATION	POUND	REMARKS
N GALENA ST		
RT 19+95 TO 21+97	56	SEEDING, CLASS 4 AREA
LT 15+00 TO 15+56	3	SEEDING, CLASS 2A (SP) AREA
LT 15+92 TO 19+51	19	SEEDING, CLASS 2A (SP) AREA
LT 20+48 TO 22+53	10	SEEDING, CLASS 2A (SP) AREA
RT 13+50 TO 19+76	36	SEEDING, CLASS 2A (SP) AREA
RT 19+65 TO 22+66	96	SEEDING, CLASS 2A (SP) AREA
		100 LBS / ACRE
PROJECT TOTAL	220	

28000250

TEMPORARY DITCH CHECKS

STATION	FOOT	REMARKS
N GALENA ST		
LT 16+62	12	
LT 17+80	12	
LT 18+55	12	
RT 16+67	12	
RT 17+96	12	
RT 19+20	12	
PROJECT TOTAL	72	

28000305

PERIMETER EROSION BARRIER

STATION	FOOT	REMARKS
N GALENA ST		
LT 15+00 TO 15+54	56	
LT 15+94 TO 19+74	387	
RT 15+00 TO 17+02	206	
RT 17+21 TO 19+47	284	
RT 19+86 TO 22+66	313	
RT 20+55 TO 22+54	345	
PROJECT TOTAL	1,591	

28000400

INLET AND PIPE PROTECTION

STATION	EACH	REMARKS
N GALENA ST		
LT 16+88	1	
LT 17+50	1	
LT 20+55	1	
LT 22+53	1	
RT 16+88	1	
RT 20+55	1	
PROJECT TOTAL	6	

28000500

STONE RIPRAP, CLASS A4

STATION	SO YD	REMARKS
N GALENA ST		
RT 16+40	5	
RT 17+45	36	
RT 17+50	26	
19+56 RT 54' - 20+27 RT 57'	24	EAST SIDE OF SIPHON CONCRETE ENCASEMENT
19+56 RT 48' - 20+27 RT 51'	24	WEST SIDE OF SIPHON CONCRETE ENCASEMENT
RT 21+62	17	
PROJECT TOTAL	132	

28100107

FILTER FABRIC

STATION	SO YD	REMARKS
N GALENA ST		
RT 16+40	5	CLASS A4 RIPRAP
RT 17+45	36	CLASS A4 RIPRAP
RT 17+50	26	CLASS A4 RIPRAP
19+56 RT 54' - 20+27 RT 57'	24	EAST SIDE OF SIPHON CONCRETE ENCASEMENT
19+56 RT 48' - 20+27 RT 51'	24	WEST SIDE OF SIPHON CONCRETE ENCASEMENT
RT 21+62	17	CLASS A4 RIPRAP
PROJECT TOTAL	132	

28200200

AGGREGATE SUBGRADE IMPROVEMENT

STATION	TON	REMARKS
N GALENA ST		
13+50 TO 19+51.48	785	10"
20+48.48 TO 22+82.50	481	10"
CONTINGENCY	540	FOR UNSUITABLE MATERIAL
PROJECT TOTAL	1,806	

30300011

SUBBASE GRANULAR MATERIAL, TYPE B

STATION	TON	REMARKS
N GALENA ST		
13+50 TO 19+51.48	383	6"
20+48.48 TO 22+82.50	244	6"
PROJECT TOTAL	627	

31101000

AGGREGATE BASE COURSE, TYPE B

STATION	TON	REMARKS
N GALENA ST		
RT 15+00 TO 17+05	42	6"
LT 16+98 TO 19+48	79	6"
LT 20+46.24 TO 22+49	66	6"
LT 20+92	1	6" - PRIVATE SW
LT 22+00	1	6" - PRIVATE SW
NW QUADRANT OF GALENA / W STATE	6	6"
PEL 15+66	36	8"
PER 17+29	29	8"
PEL 20+89	45	8"
PROJECT TOTAL	305	

35101400



DESIGNED - LGN
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DRAWN - LGN
CHECKED - GFS

REVISED -
REVISED -
REVISED -
REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

SCHEDULE OF QUANTITIES

SHEET NO. 1 OF 4 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	7
WHA* 1273D10			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-0015050				

FILE = S:\PROJECTS\2810\1273D10_Carroll\Galena_ST_BR\DESIGN\STRUCT\Drawings\1273D10_Schedule.dgn

SCHEDULE OF QUANTITIES

BITUMINOUS MATERIALS (PRIME COAT)		
STATION	POUND	REMARKS
N GALENA ST		
13+50 TO 19+51.48	2,524	0.25 LBS / SF ON AGG
20+48.48 TO 22+82.50	1,606	0.25 LBS / SF ON AGG
PEL 15+66	179	0.25 LBS / SF ON AGG
PER 17+29	131	0.25 LBS / SF ON AGG
PEL 20+89	205	0.25 LBS / SF ON AGG
PROJECT TOTAL	4,645	

40600275

BITUMINOUS MATERIALS (TACK COAT)		
STATION	POUND	REMARKS
N GALENA ST		
13+50 TO 19+51.48	252	0.025 LBS / SF ON HMA
20+48.48 TO 22+82.50	161	0.025 LBS / SF ON HMA
PROJECT TOTAL	413	

40600290

HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50		
STATION	TON	REMARKS
N GALENA ST		
13+50 TO 19+51.48	145	2 1/4"
20+48.48 TO 22+82.50	92	2 1/4"
PROJECT TOTAL	237	

40603080

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50		
STATION	TON	REMARKS
N GALENA ST		
13+50 TO 19+51.48	129	2"
20+48.48 TO 22+82.50	82	2"
PEL 15+66	14	3"
PER 17+29	10	3"
PEL 20+89	16	3"
PROJECT TOTAL	251	

40603310

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH		
STATION	SQ FT	REMARKS
N GALENA ST		
RT 15+00 TO 17+05	1,096.5	
LT 16+98 TO 19+48	2,090.5	
LT 20+46.24 TO 22+49	1,733.0	
LT 20+92	27.0	PRIVATE SW
LT 22+00	19.0	PRIVATE SW
NW QUADRANT OF GALENA / W STATE	161.5	
PROJECT TOTAL	5,127.5	

42400200

DETECTABLE WARNINGS		
STATION	SQ FT	REMARKS
N GALENA ST		
RT 17+02	10	5'X2'
LT 17+02	16	8'X2'
LT 22+45	22	INSTALLED ON RADIUS
LT 22+80	10	5'X2'
PROJECT TOTAL	58	

42400800

AGGREGATE SHOULDERS, TYPE B 6"		
STATION	SQ YD	REMARKS
N GALENA ST		
LT 15+00 TO 15+50	21	
LT 15+92 TO 16+98	46	
LT 17+06 TO 17+86	35	
PROJECT TOTAL	102	

48101500

HOT-MIX ASPHALT SHOULDER, 4"		
STATION	SQ YD	REMARKS
N GALENA ST		
RT 22+11 TO 22+48	70	
PROJECT TOTAL	70	

48203013

PIPE CULVERT REMOVAL		
STATION	FOOT	REMARKS
N GALENA ST		
RT 16+77 TO 17+65	90	12"
PROJECT TOTAL	90	

50105220

PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"		
STATION	EACH	REMARKS
N GALENA ST		
STA 20+65, 30.7' RT	1	
PROJECT TOTAL	1	

54213657

PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"		
STATION	EACH	REMARKS
N GALENA ST		
STA 18+86, 22' LT	1	
STA 16+87.6, 22' RT	1	
STA 17+39, 31' RT	1	
PROJECT TOTAL	3	

54213660

PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"		
STATION	EACH	REMARKS
N GALENA ST		
STA 17+50, 31' RT	1	
PROJECT TOTAL	1	

54213663

PIPE CULVERTS, CLASS A, TYPE 1 12"		
STATION	FOOT	REMARKS
N GALENA ST		
STA 20+54.98 TO STA 20+65.00 RT	14	
PROJECT TOTAL	14	

542A0217

PIPE CULVERTS, CLASS A, TYPE 1 15"		
STATION	FOOT	REMARKS
N GALENA ST		
STA 16+86 TO STA 17+50 LT	56	
STA 16+87 TO STA 17+39 RT	40	
PROJECT TOTAL	96	

542A0220

PIPE CULVERTS, CLASS A, TYPE 1 18"		
STATION	FOOT	REMARKS
N GALENA ST		
STA 17+50	47	LATERAL
PROJECT TOTAL	47	

542A0223

STORM SEWERS, CLASS A, TYPE 1 12"		
STATION	FOOT	REMARKS
N GALENA ST		
STA 20+54.98	23	LATERAL
PROJECT TOTAL	23	

550A0050

FILE: S:\PROJECTS\2020\1273010\Carroll\1\Drawings\1273010_Schedule.qdw



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CHECKED - GFS	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

SCHEDULE OF QUANTITIES

SHEET NO. 2 OF 4 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	8
WHA# 1273D10			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501				

SCHEDULE OF QUANTITIES

DUCTILE IRON WATER MAIN 4"		
STATION	FOOT	REMARKS
N GALENA ST		
18+84 RT 23' - 18+86 RT 23'	2	
20+96 RT 34' - 20+98 RT 34'	2	
PROJECT TOTAL	4	
56102900*		

DUCTILE IRON WATER MAIN 8"		
STATION	FOOT	REMARKS
N GALENA ST		
18+69 RT 6' - 18+71 RT 6'	2	
21+28 RT 4' - 21+30 RT 4'	2	
PROJECT TOTAL	4	
56103100*		

DUCTILE IRON WATER MAIN 10"		
STATION	FOOT	REMARKS
N GALENA ST		
18+71 RT 6' - 18+73 RT 6'	2	
18+73 RT 6' - 19+29 RT 69'	84	
19+29 RT 69' - 19+50 RT 69'	20	
19+50 RT 69' - 19+83 RT 39'	45	
19+83 RT 39' - 20+84 RT 43'	101	
20+84 RT 43' - 21+26 RT 4'	58	
21+26 RT 4' - 21+28 RT 4'	2	
PROJECT TOTAL	312	
56103200*		

WATER VALVES 10"		
STATION	EACH	REMARKS
N GALENA ST		
18+88 RT 23'	1	
20+94 RT 34'	1	
PROJECT TOTAL	2	
56105100*		

INSERTING VALVES 4"		
STATION	EACH	REMARKS
N GALENA ST		
18+78 RT 23'	1	
21+04 RT 35'	1	
PROJECT TOTAL	2	
56105430*		

INSERTING VALVES 8"		
STATION	EACH	REMARKS
N GALENA ST		
18+63 RT 6'	1	
21+36 RT 4'	1	
PROJECT TOTAL	2	
56105600*		

FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX		
STATION	EACH	REMARKS
N GALENA ST		
21+15 RT 14'	1	
PROJECT TOTAL	1	
56400820*		

CONCRETE HEADWALLS FOR PIPE DRAINS		
STATION	EACH	REMARKS
N GALENA ST		
RT 17+47	1	
RT 17+52	1	
PROJECT TOTAL	2	
60100060		

PIPE DRAINS 4"		
STATION	FOOT	REMARKS
N GALENA ST		
RT 15+00 - 17+47	264	
LT 15+00 - 17+49	258	
RT 17+53 - 19+50	207	
LT 17+51 - 19+50	209	
RT 20+56 - 22+50	237	
LT 20+56 - 22+50	198	
PROJECT TOTAL	1,373	
60100905		

MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID		
STATION	EACH	REMARKS
N GALENA ST		
17+50 LT 23'	1	
PROJECT TOTAL	1	
60218300		

VALVE BOXES TO BE ADJUSTED		
STATION	EACH	REMARKS
N GALENA ST		
21+06 RT 56'	1	
21+06 RT 59'	1	
21+14 RT 49'	1	
22+02 RT 41'	1	
PROJECT TOTAL	4	
60266600		

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24		
STATION	FOOT	REMARKS
N GALENA ST		
LT 18+09.98 TO 19+51.48	141.5	
LT 20+48.48 TO 22+56.06	222.5	
RT 13+50 TO 16+36	278.5	
RT 16+44 TO 19+51.48	307.5	
RT 20+48.48 TO 21+99	150.5	
PROJECT TOTAL	1,100.5	
60605000		

GUARDRAIL REMOVAL		
STATION	FOOT	REMARKS
N GALENA ST		
LT 18+82 TO 19+46	65	
RT 20+49 TO 21+34	89	
PROJECT TOTAL	154	
63200310		

CHAIN LINK FENCE, 6'		
STATION	FOOT	REMARKS
N GALENA ST		
LT 19+48	5	
LT 20+47	5	
PROJECT TOTAL	10	
66400305*		

SIGN PANEL - TYPE 1		
STATION	SQ FT	REMARKS
N GALENA ST		
RT 15+81	6.25	PED CROSSING W11-2 (30"X30")
RT 15+81	2.00	AHEAD W16-9P (24"X12")
LT 19+48	5.00	AUTH PERS ONLY R5-7 MODIFIED (30"X24")
LT 20+47	5.00	AUTH PERS ONLY R5-7 MODIFIED (30"X24")
RT 22+11	6.25	STOP R1-1 (30"X30")
PROJECT TOTAL	24.50	
72000100		

FILE - S:\PROJECTS\2018\1272018_Corroll County, Galeta St BR DESIGN STRUCT.DWG - 1272018_Schedule.dwg



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CHECKED - GFS	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

SCHEDULE OF QUANTITIES

SHEET NO. 3 OF 4 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	9
WHA# 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00150501				

SCHEDULE OF QUANTITIES

TELESCOPING STEEL SIGN SUPPORT		
STATION	FOOT	REMARKS
N GALENA ST		
RT 15+81	13	PED CROSSING SIGN
RT 22+11	13	STOP SIGN
PROJECT TOTAL		26
72800100		

PAINT PAVEMENT MARKING - LINE 12''		
STATION	FOOT	REMARKS
N GALENA ST		
17+02	56	CROSS WALK (WHITE)
LT 22+64	81	CROSS WALK (WHITE)
PROJECT TOTAL		56
78001150		

PAINT PAVEMENT MARKING - LINE 24''		
STATION	FOOT	REMARKS
N GALENA ST		
RT 22+30	17	STOP BAR (WHITE)
PROJECT TOTAL		17
78001180		

RIFFLE STRUCTURE		
STATION	EACH	REMARKS
CARROLL CREEK TRIBUTARY		
6000+70	1	
6001+70	1	
PROJECT TOTAL		2
X0324082		

SEEDING, CLASS 2A (SPECIAL)		
STATION	ACRE	REMARKS
N GALENA ST		
LT 15+00 TO 15+56	0.03	
LT 15+92 TO 19+51	0.19	
LT 20+48 TO 22+53	0.10	
RT 13+50 TO 19+76	0.36	
RT 19+65 TO 22+66	0.96	
PROJECT TOTAL		1.64
X2501020*		

CONCRETE ENCASEMENT		
STATION	CU YD	REMARKS
N GALENA ST		
19+56 RT 51' - 20+27 RT 54'	10	
PROJECT TOTAL		10
X5030221*		

WATER MAIN REMOVAL, 4''		
STATION	FOOT	REMARKS
N GALENA ST		
18+84 RT 23' - 20+98 RT 34'	214	
PROJECT TOTAL		214
X5610704*		

WATER MAIN REMOVAL, 8''		
STATION	FOOT	REMARKS
N GALENA ST		
18+69 RT 6' - 21+30 RT 4'	261	
PROJECT TOTAL		261
X5610708*		

INLETS, SPECIAL		
STATION	EACH	REMARKS
N GALENA ST		
LT & RT 20+54.98	2	
22+52.7 LT 34.6'	1	
PROJECT TOTAL		3
X6024240*		

SANITARY MANHOLES TO BE ADJUSTED		
STATION	EACH	REMARKS
N GALENA ST		
16+70 RT 1.6'	1	
19+33.3 RT 50.2'	1	
19+33.5 RT 42'	1	
22+02.6 RT 60.3'	1	
PROJECT TOTAL		4
X6026050*		

SANITARY MANHOLES TO BE RECONSTRUCTED		
STATION	EACH	REMARKS
N GALENA ST		
17+59.4 RT 35.7'	1	
PROJECT TOTAL		1
X6026051*		

INLETS TO BE REMOVED, SPECIAL		
STATION	EACH	REMARKS
N GALENA ST		
22+52.7 LT 34.6'	1	
PROJECT TOTAL		1
X6024240*		

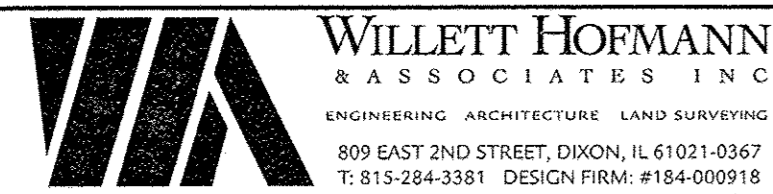
CLASS SI CONCRETE (OUTLET), SPECIAL		
STATION	CU YD	REMARKS
N GALENA ST		
LT 17+61.74 TO 18+09.98	4.0	DISTRICT STANDARD 5.1
RT 16+36 TO 16+44	1.0	DISTRICT STANDARD 18.4
RT 21+99 TO 22+11	1.3	DISTRICT STANDARD 21.2
PROJECT TOTAL		6.3
X6060097*		

GEOTECHNICAL FABRIC		
STATION	SQ YD	REMARKS
N GALENA ST		
13+50 TO 19+51.48	1,122	
20+48.48 TO 22+82.50	714	
PROJECT TOTAL		1,836
Z0027800*		

WATER MAIN CASING PIPE		
STATION	FOOT	REMARKS
N GALENA ST		
18+94 RT 30' - 19+15 RT 52'	31	
19+57 RT 64' - 19+82 RT 40'	35	
PROJECT TOTAL		66
XX005855*		

HANDHOLE (SPECIAL)		
STATION	EACH	REMARKS
N GALENA ST		
18+88 RT 23'	1	
21+15 RT 14'	1	
PROJECT TOTAL		2
X8140105*		

FILE: S:\PROJECTS\2010\1273010_Carroll County, Galena, St. BR\DESIGN\STRUCT\Drawings\1273010_Schedule.dgn



DESIGNED - LGN	REVISED -
CHECKED - GFS	REVISED -
DRAWN - LGN	REVISED -
CHECKED - GFS	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

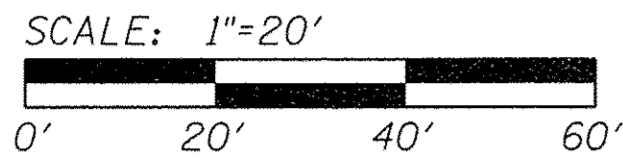
SCHEDULE OF QUANTITIES
SHEET NO. 4 OF 4 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	10
WHA* 1273D10			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501				



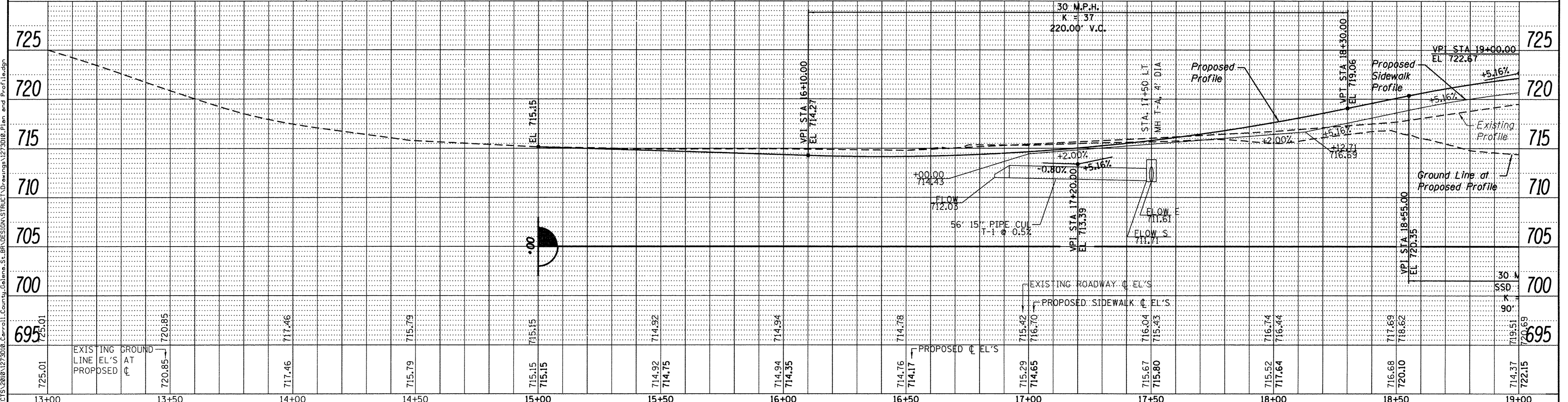
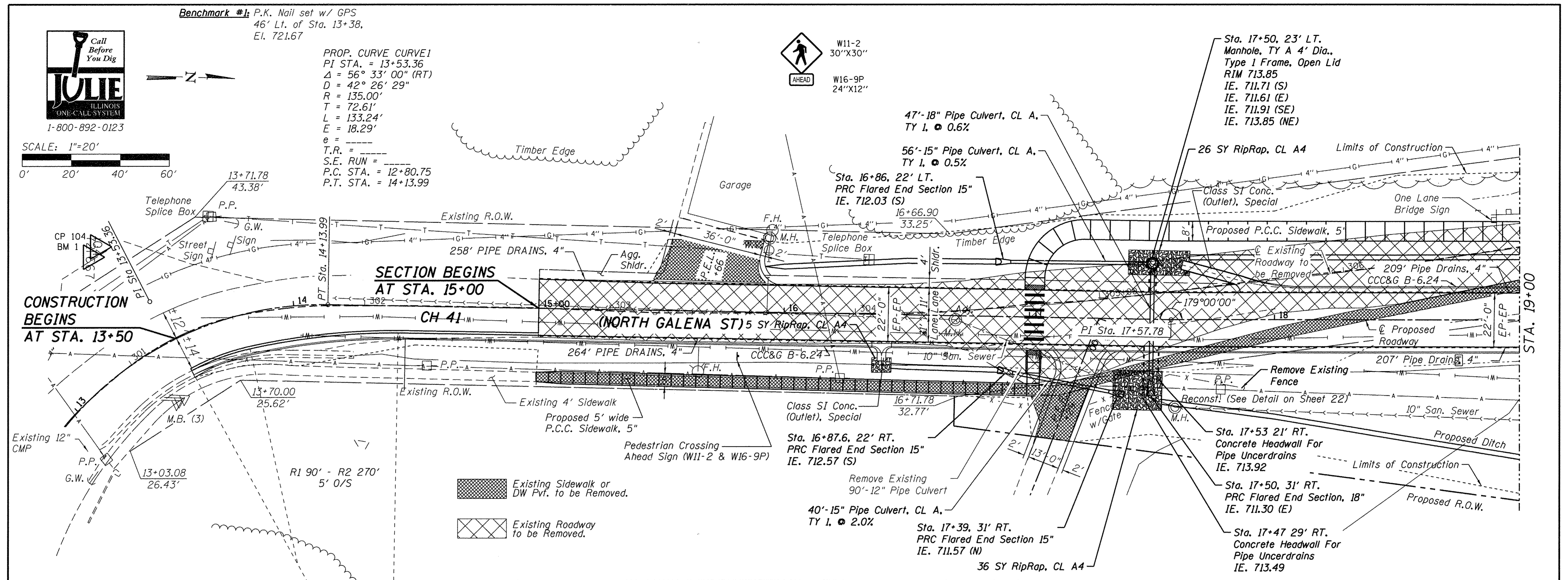
Benchmark #1: P.K. Nail set w/ GPS
46' Lt. of Sta. 13+38,
El. 721.67

PROP. CURVE CURVE1
PI STA. = 13+53.36
 $\Delta = 56^\circ 33' 00''$ (RT)
 $D = 42^\circ 26' 29''$
 $R = 135.00'$
 $T = 72.61'$
 $L = 133.24'$
 $E = 18.29'$
 $e = \dots$
T.R. = \dots
S.E. RUN = \dots
P.C. STA. = 12+80.75
P.T. STA. = 14+13.99



DATE	BY

DATE	BY



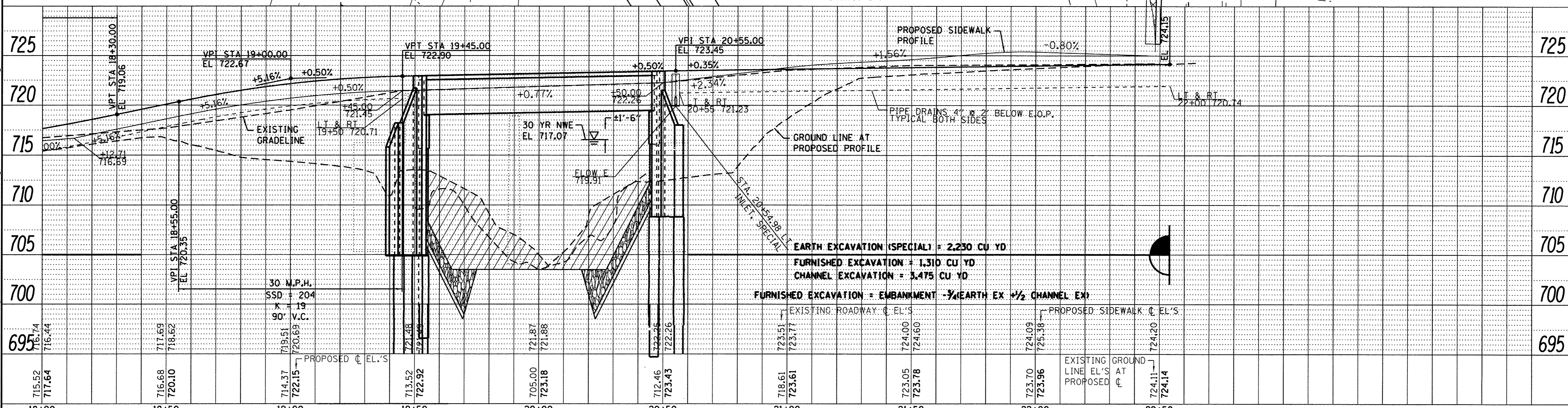
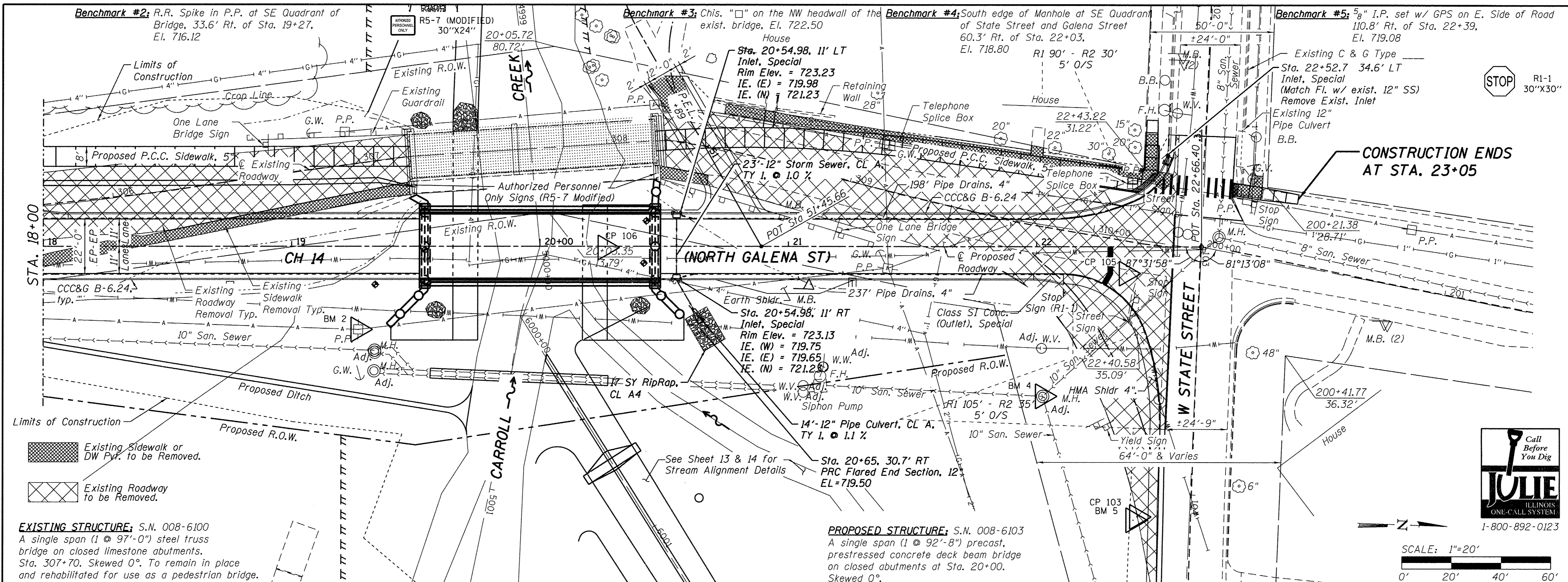
DESIGNED - MCW	REVISD -
CHECKED - BKC	REVISD -
DRAWN - RDA	REVISD -
CHECKED - MAC	REVISD -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

PLAN AND PROFILE
C.H. 14 (GALENA STREET)
SCALE: 1" = 20'-0"
SHEET NO. 1 OF 2 SHEETS
STA. 13+00.00 TO STA. 19+00.00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	11
WHA# 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501				

FILE: S:\PROJECTS\2818\1273010_Corroll\County\Galena.St.BR\DESIGN\STRUCT\Drawings\1273010_Plan and Profile.dwg



DATE	
BY	
REVISIONS	
NO.	
DATE	
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REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

FILE = S:\PROJECTS\2018\1273010_Carroll, County, Galena, St. BRVDESIGN\STRUCTURE\Drawings\1273010_Plan and Profile.dwg

<p>WILLETTS HOFMANN & ASSOCIATES INC. ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3381 DESIGN FIRM: #184-000918</p>	DESIGNED - MCW	REVISD -	<p align="center">CARROLL COUNTY NORTH GALENA ST OVER CARROLL CREEK STATION 20+00</p>	<p align="center">PLAN AND PROFILE C.H. 14 (GALENA STREET)</p>	C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	CHECKED - BKC	REVISD -			14	08-00027-00-BR	CARROLL	70	12	
	DRAWN - RDA	REVISD -			<p>SCALE: 1" = 20'-0" SHEET NO. 2 OF 2 SHEETS STA. 18+00.00 TO STA. 22+50.00</p>			<p>CONTRACT NO. 85654</p>		
	CHECKED - MAC	REVISD -			<p>ILLINOIS FED. AID PROJECT BR05-0015050</p>					

BENCH MARK: R.R. SPIKE IN P.P. AT SE QUADRANT OF BRIDGE AT STA. 19+27, 33.6' RT. EL. 716.12

BENCH MARK: CHIS. "I" ON NW HEADWALL OF EXIST. BRIDGE EL. 722.50

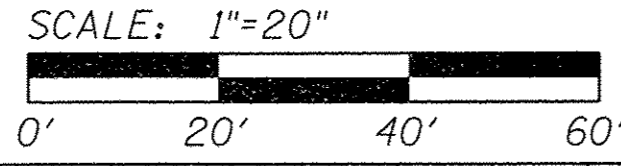
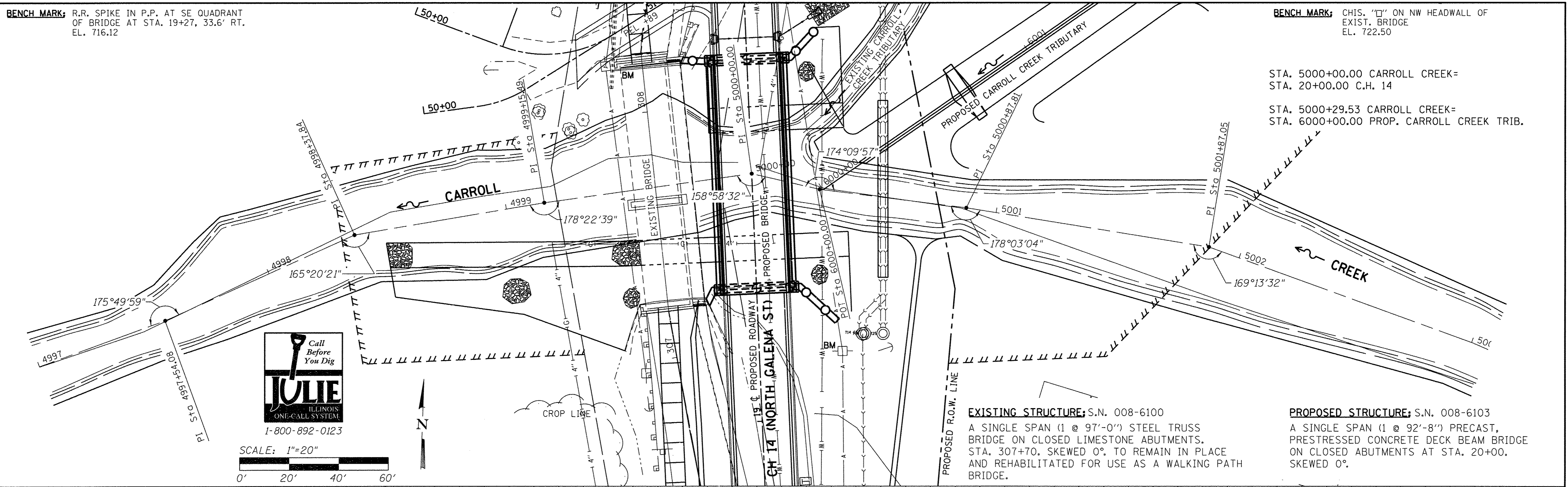
STA. 5000+00.00 CARROLL CREEK= STA. 20+00.00 C.H. 14

STA. 5000+29.53 CARROLL CREEK= STA. 6000+00.00 PROP. CARROLL CREEK TRIB.

DATE	
BY	
PLANNING	
DESIGN	
CHECKED	
NOTED	
NO.	

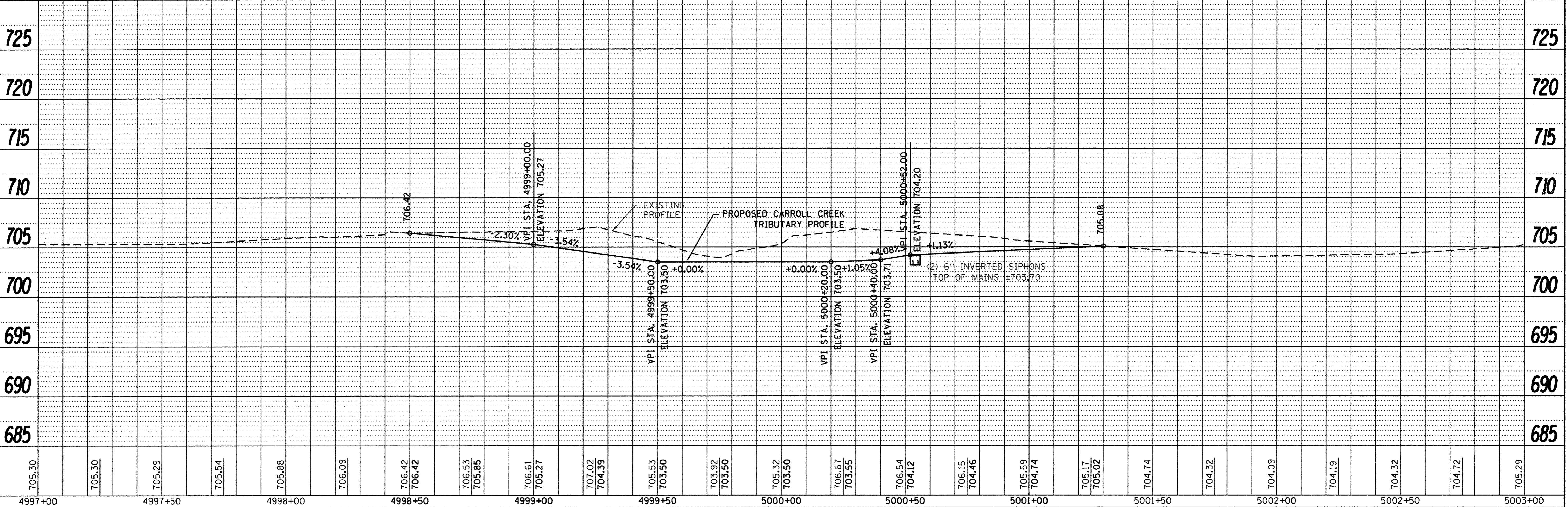
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BY	
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DESIGN	
CHECKED	
NOTED	
NO.	

FILE: S:\PROJECTS\2018\12730108_Carroll_County_Galena_St_Bridge\DESIGN\STRUCT\Drawings\12730108_Carroll_Creek_Plan & Profile.dgn



EXISTING STRUCTURE; S.N. 008-6100
A SINGLE SPAN (1 @ 97'-0") STEEL TRUSS BRIDGE ON CLOSED LIMESTONE ABUTMENTS. STA. 307+70. SKEWED 0° TO REMAIN IN PLACE AND REHABILITATED FOR USE AS A WALKING PATH BRIDGE.

PROPOSED STRUCTURE; S.N. 008-6103
A SINGLE SPAN (1 @ 92'-8") PRECAST, PRESTRESSED CONCRETE DECK BEAM BRIDGE ON CLOSED ABUTMENTS AT STA. 20+00. SKEWED 0°.



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

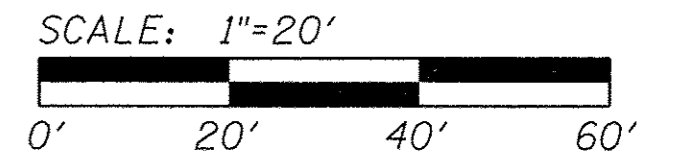
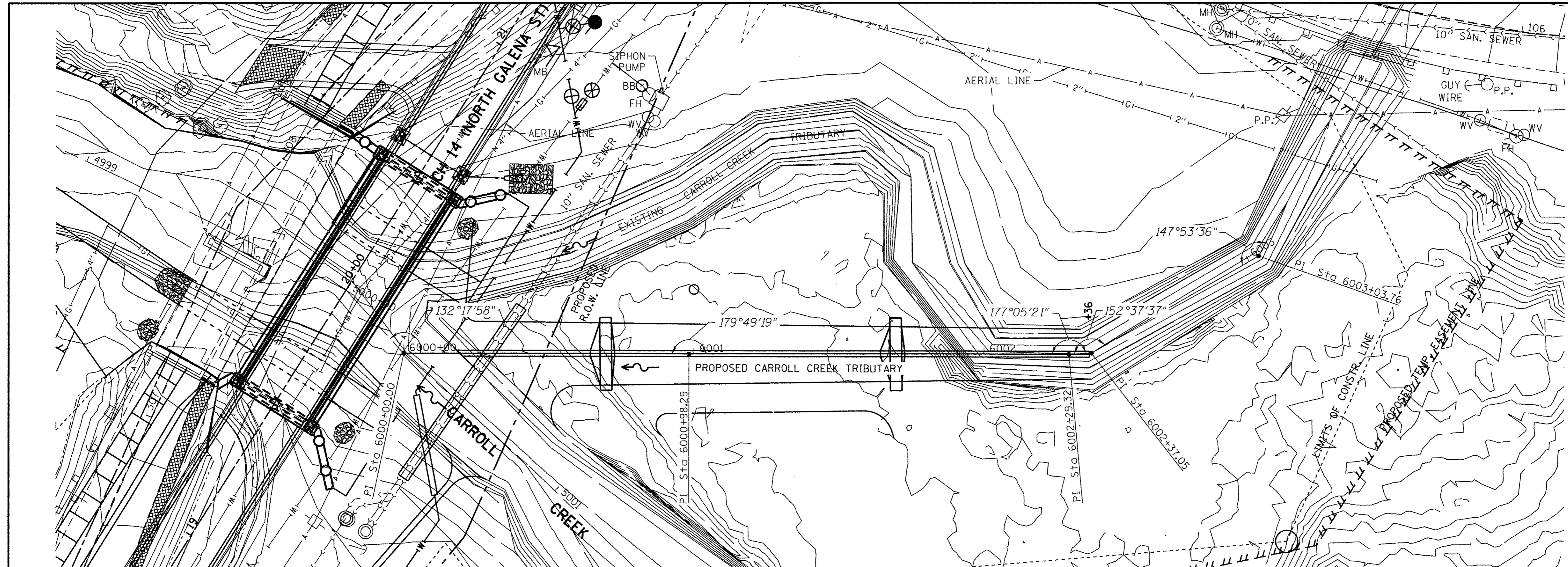
DESIGNED -	MAC	REVISED -	
CHECKED -	BKC	REVISED -	
DRAWN -	DAN	REVISED -	
CHECKED -	MAC	REVISED -	

**CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00**

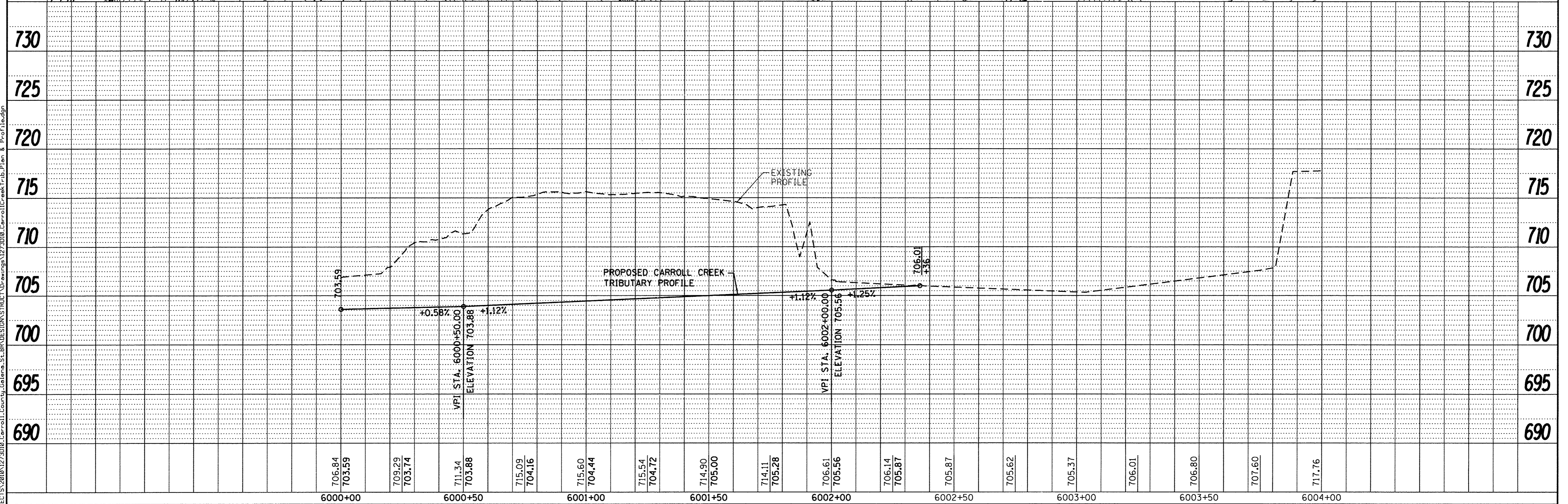
**PLAN & PROFILE
CARROLL CREEK**
SCALE: 1" = 20'-0"
SHEET NO. 1 OF 1 SHEETS
STA. 4997+00 TO STA. 5003+00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	13
WHA# 1273D10			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BR05-0015050				

NO.	DATE	BY



NO.	DATE	BY



DESIGNED - MAC	REVISED -
CHECKED - BKC	REVISED -
DRAWN - DAN	REVISED -
CHECKED - MAC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

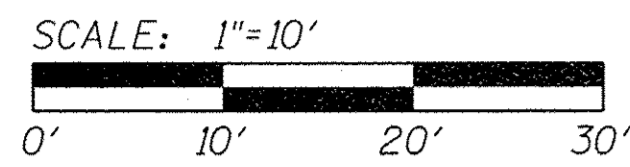
PLAN AND PROFILE
CARROLL CREEK TRIBUTARY
 SCALE: 1" = 20'-0" SHEET NO. 1 OF 1 SHEETS STA. 6000+00 TO STA. 6004+00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	14
WHA* 1273D10			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501				

FILE: S:\PROJECTS\2018\1273010.Carroll County Galena St BR DESIGN STRUCT\Drawings\1273010.CarrollCreek Trib Plan & Profile.dwg



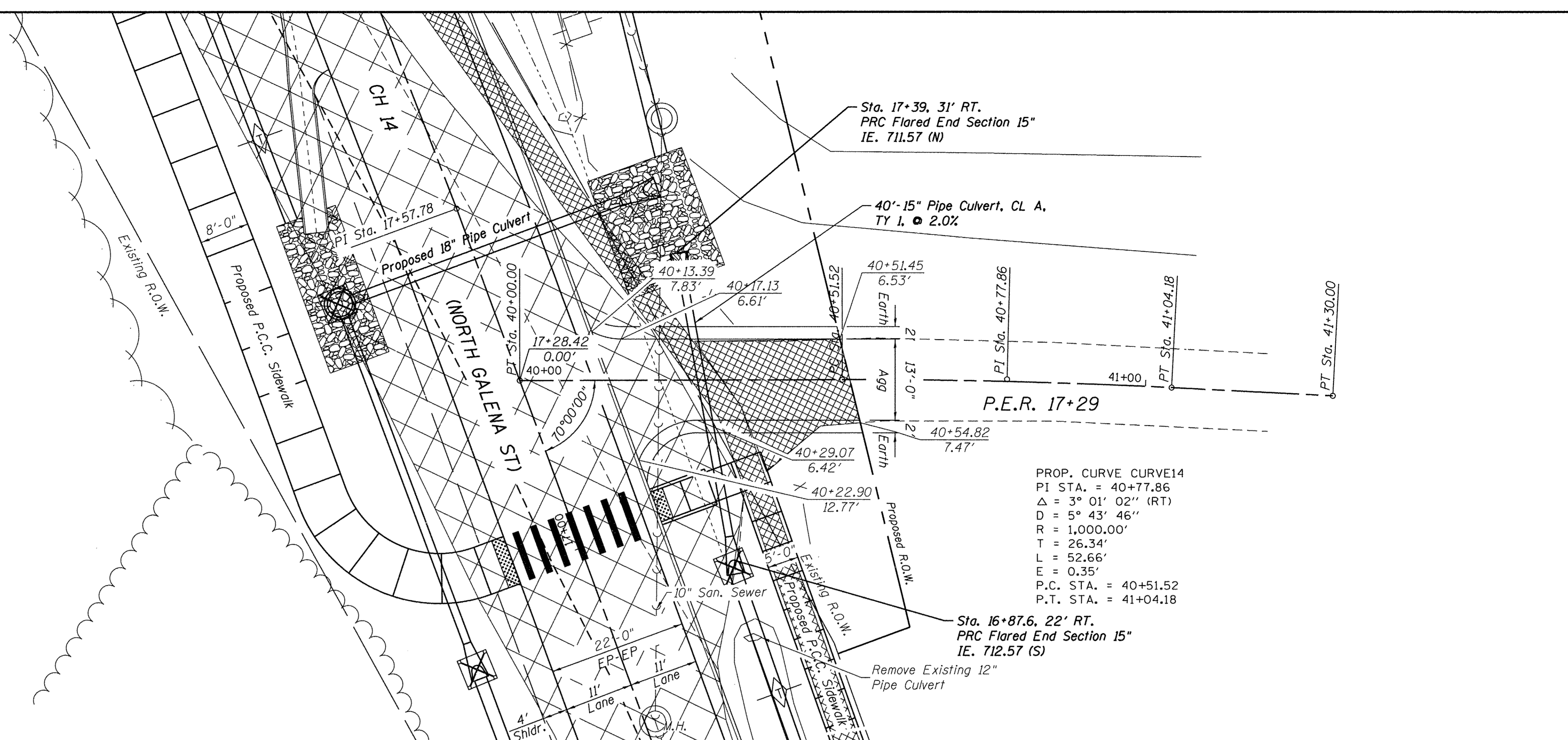
1-800-892-0123



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- Existing Sidewalk or DW Pvt. to be Removed.
- Existing Roadway to be Removed.



Sta. 17+39.31' RT.
PRC Flared End Section 15"
IE. 711.57 (N)

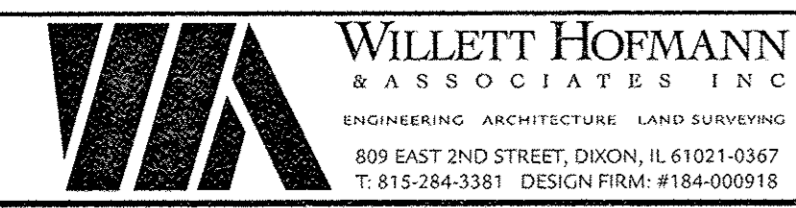
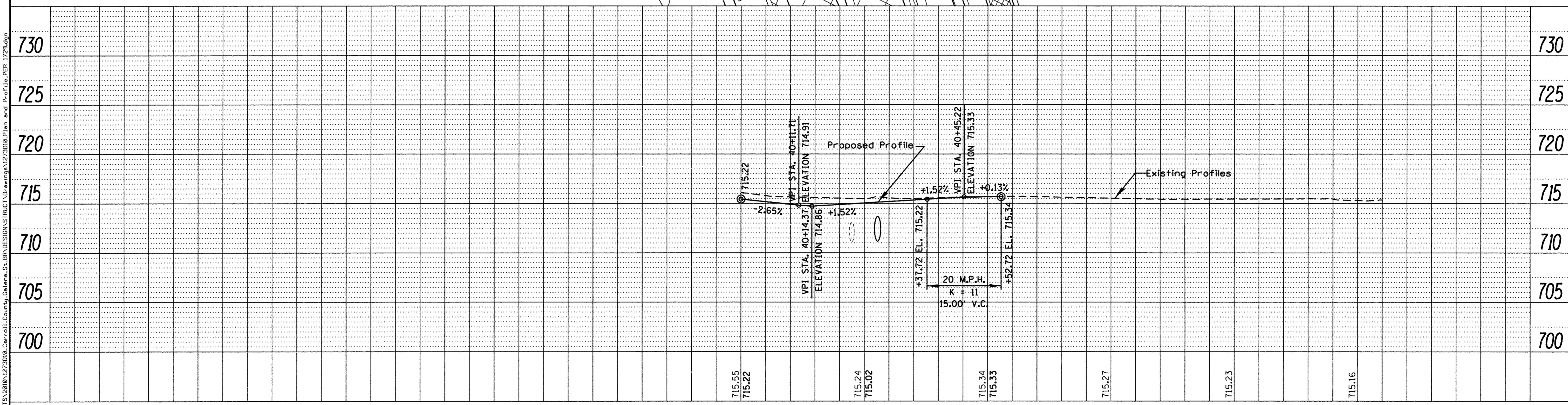
40'-15" Pipe Culvert, CL A,
TY 1, @ 2.0%

P.E.R. 17+29

PROP. CURVE CURVE14
PI STA. = 40+77.86
Δ = 3° 01' 02" (RT)
D = 5° 43' 46"
R = 1,000.00'
T = 26.34'
L = 52.66'
E = 0.35'
P.C. STA. = 40+51.52
P.T. STA. = 41+04.18

Sta. 16+87.6, 22' RT.
PRC Flared End Section 15"
IE. 712.57 (S)

Remove Existing 12"
Pipe Culvert



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

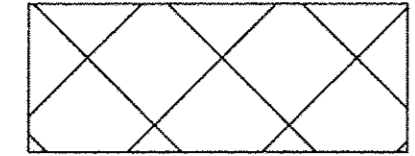
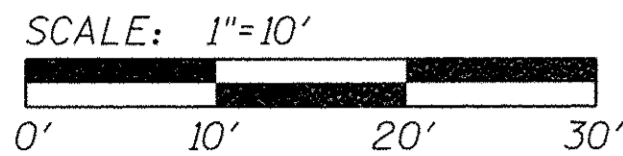
DESIGNED - MCW	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - MAC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

PLAN AND PROFILE
P.E.R. 17 + 29
SCALE: 1" = 10'-0" SHEET NO. 1 OF 1 SHEETS STA. 50+00.00 TO STA. 51+45.66

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	15
WHA# 1273D10			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501				

FILE: S:\PROJECTS\2010\1273D10\Carroll County, Galena, SL BR\DESIGN\STRUCT\Drawings\1273D10.Plan and Profile.PER 1729.dgn



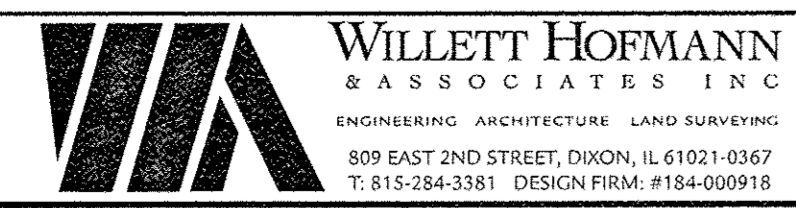
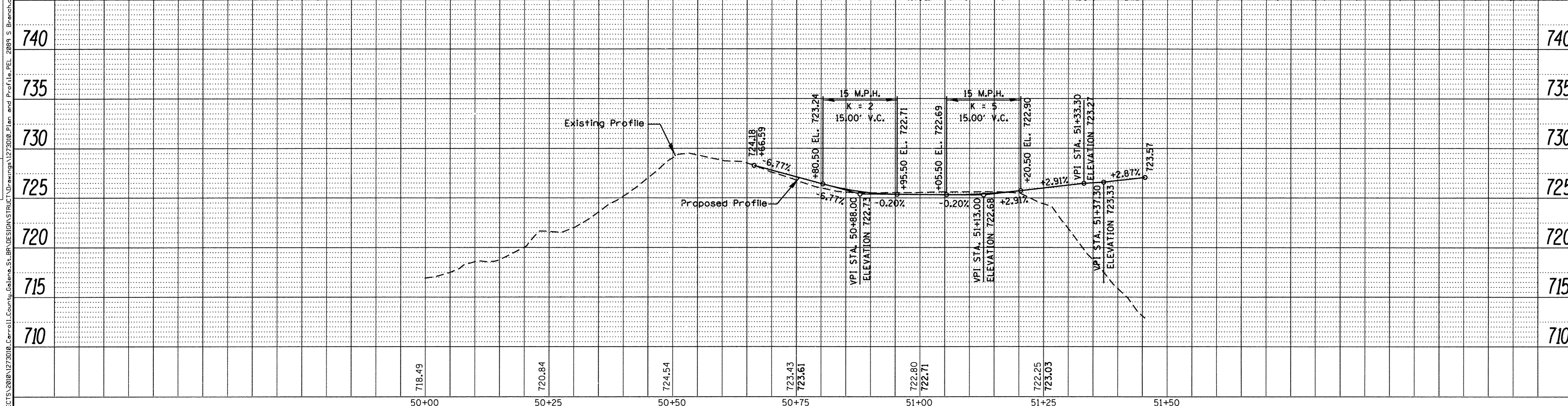
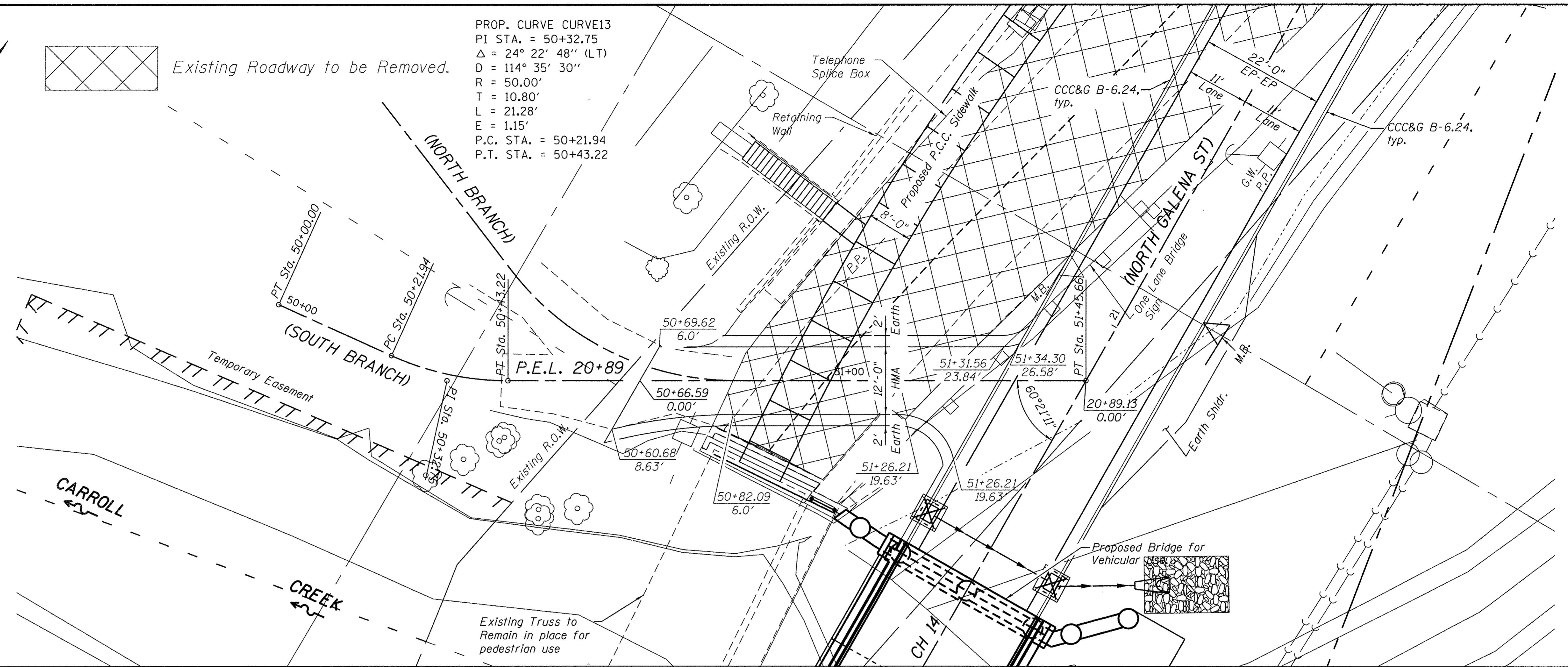
Existing Roadway to be Removed.

PROP. CURVE CURVE13
PI STA. = 50+32.75
 $\Delta = 24^\circ 22' 48''$ (LT)
D = 114' 35' 30"
R = 50.00'
T = 10.80'
L = 21.28'
E = 1.15'
P.C. STA. = 50+21.94
P.T. STA. = 50+43.22

PLAN	SURVEYED	BY	DATE
	PLANNED		
	CHECKED		
	RT. OF WAY CHECKED		
	NO. _____		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLANNED		
	CHECKED		
	RT. OF WAY CHECKED		
	NO. _____		
	NOTATIONS GRID		

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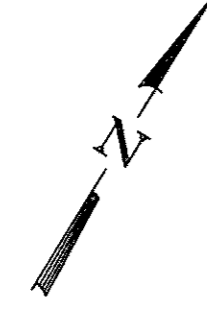


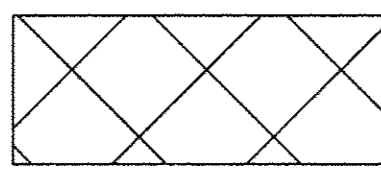
DESIGNED - MCW	REVISED -
CHECKED - BKC	REVISED -
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CHECKED - MAC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

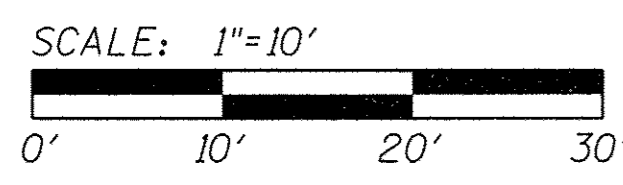
PLAN AND PROFILE
P.E.L. 20 + 89 (SOUTH BRANCH)
SCALE: 1" = 10'-0" SHEET NO. 1 OF 1 SHEETS STA. 50+00.00 TO STA. 51+45.66

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	16
WHA# 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501				



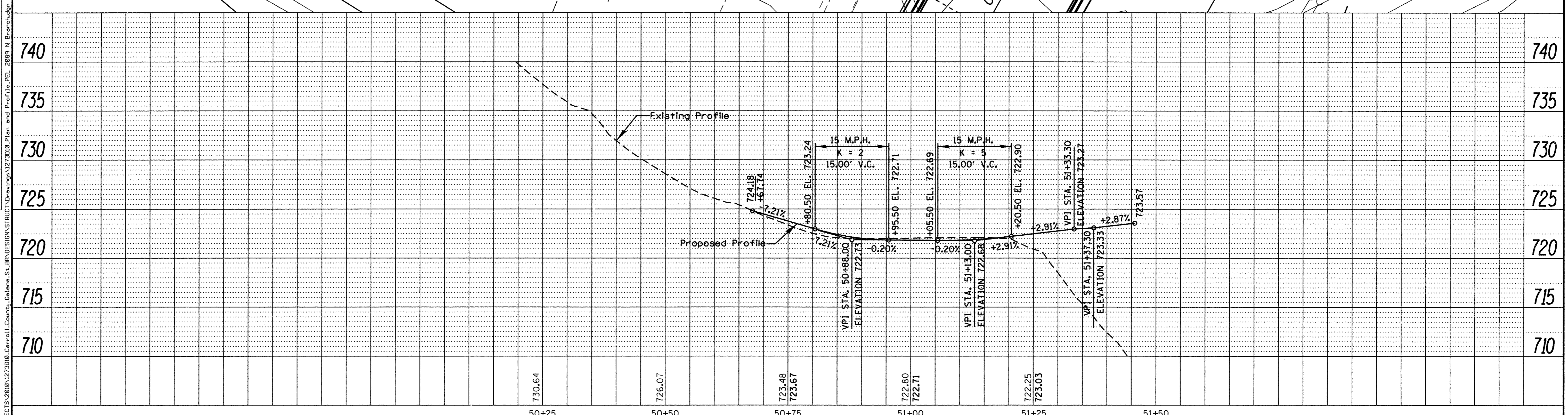
 Existing Roadway to be Removed.

PROP. CURVE CURVE12
 PI STA. = 50+62.34
 $\Delta = 52^\circ 29' 38''$ (LT)
 $D = 114^\circ 35' 30''$
 $R = 50.00'$
 $T = 24.65'$
 $L = 45.81'$
 $E = 5.75'$
 P.C. STA. = 50+37.69
 P.T. STA. = 50+83.50



DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
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PLAN	
NO.	
DESCRIPTION	
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REVISIONS	
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DESCRIPTION	
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REVISIONS	
NO.	
DESCRIPTION	
DATE	
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WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T. 815-284-3381 DESIGN FIRM: #134-000918

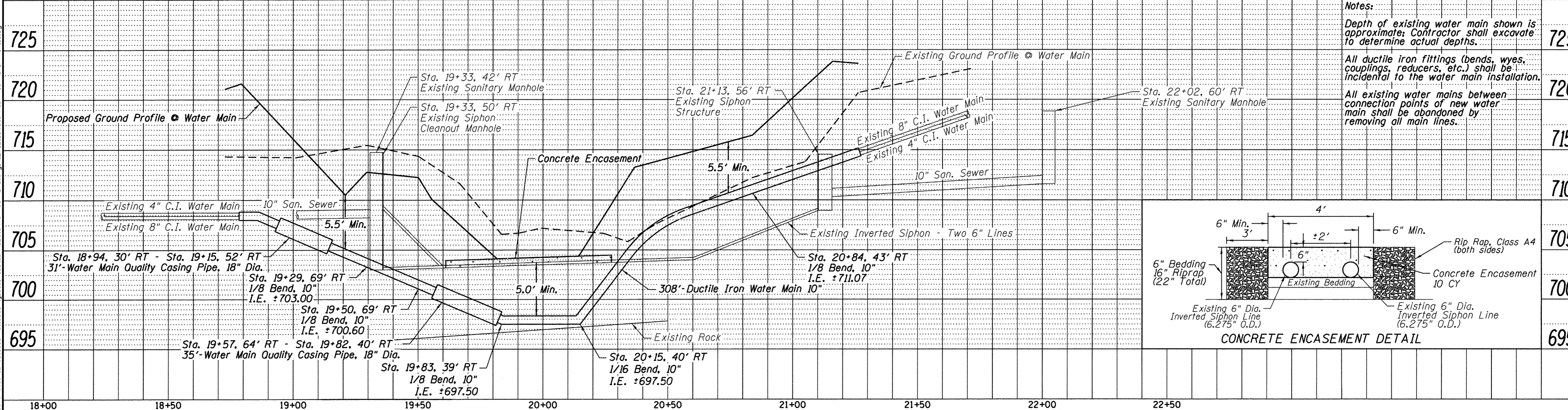
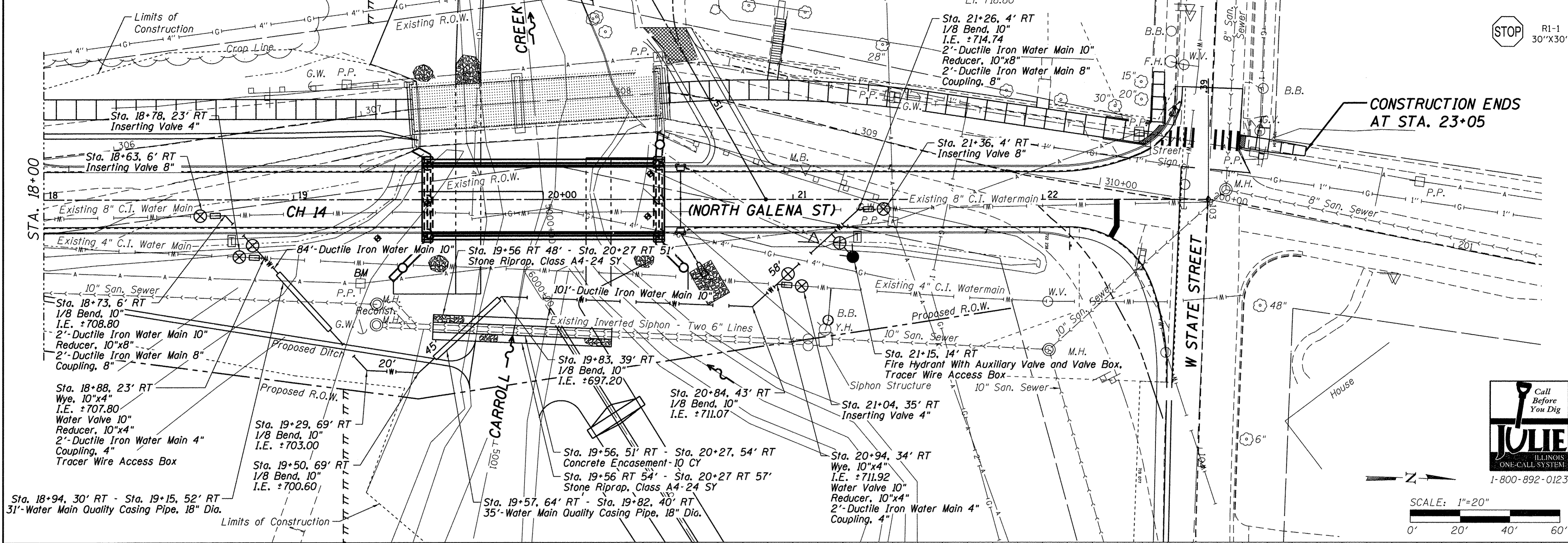
DESIGNED - MCW	REVISED -
CHECKED - BKC	REVISED -
DRAWN - RDA	REVISED -
CHECKED - MAC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

PLAN AND PROFILE
P.E.L. 20+89 (NORTH BRANCH)
 SCALE: 1" = 10'-0" SHEET NO. 1 OF 1 SHEETS STA. 50+00.00 TO STA. 51+45.66

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	17
WHA# 1273D10			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BR05-00150501				

Benchmark #2: R.R. Spike in P.P. at SE Quadrant of Bridge, 33.6' Rt. of Sta. 19+27, El. 716.12
 Benchmark #3: Chis. "□" on the NW headwall of the exist. bridge, El. 722.50
 Benchmark #4: South edge of Manhole at SE Quadrant of State Street and Galena Street 60.3' Rt. of Sta. 22+03, El. 718.80
 Benchmark #5: 5/8" I.P. set w/ GPS on E. Side of Road 110.8' Rt. of Sta. 22+39, El. 719.08



DATE	BY	REVISION
		DESIGNED - DBL
		CHECKED - GMH
		DRAWN - NCV
		CHECKED - DBL
		REVISED -
		REVISED -
		REVISED -
		REVISED -

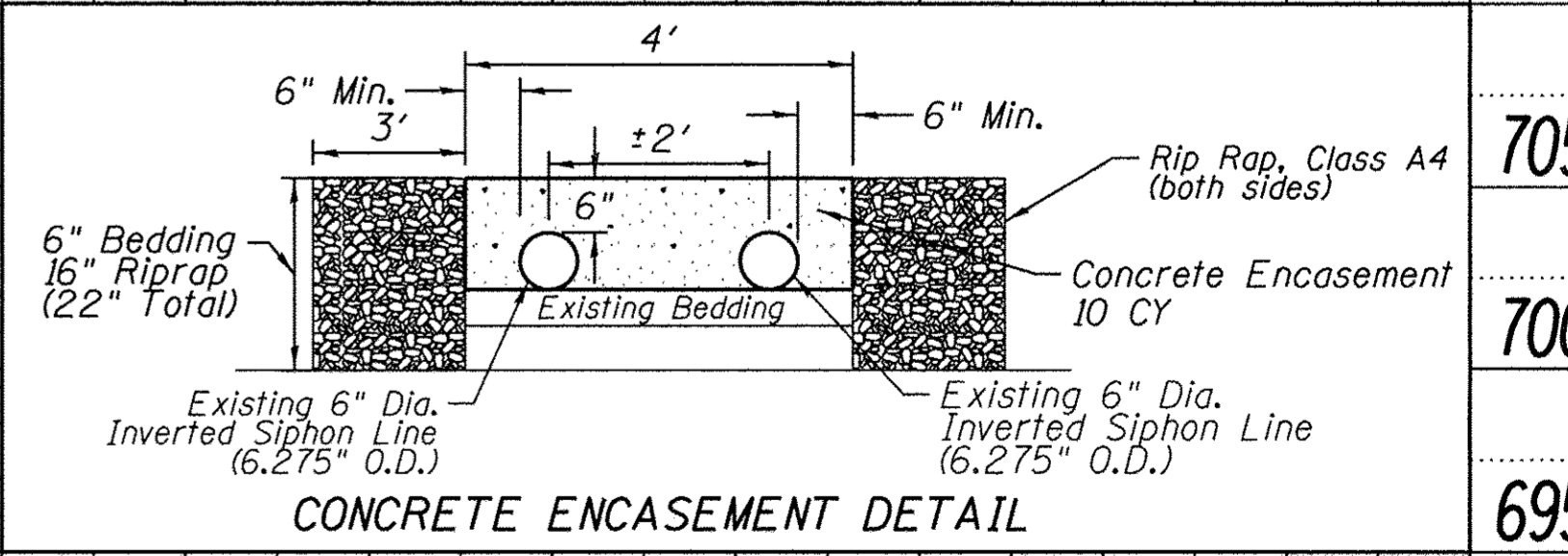
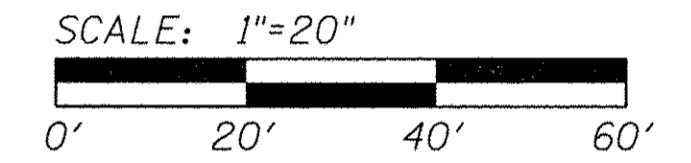
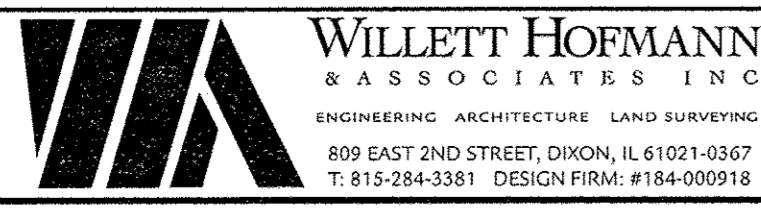
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

PLAN AND PROFILE
WATER MAIN

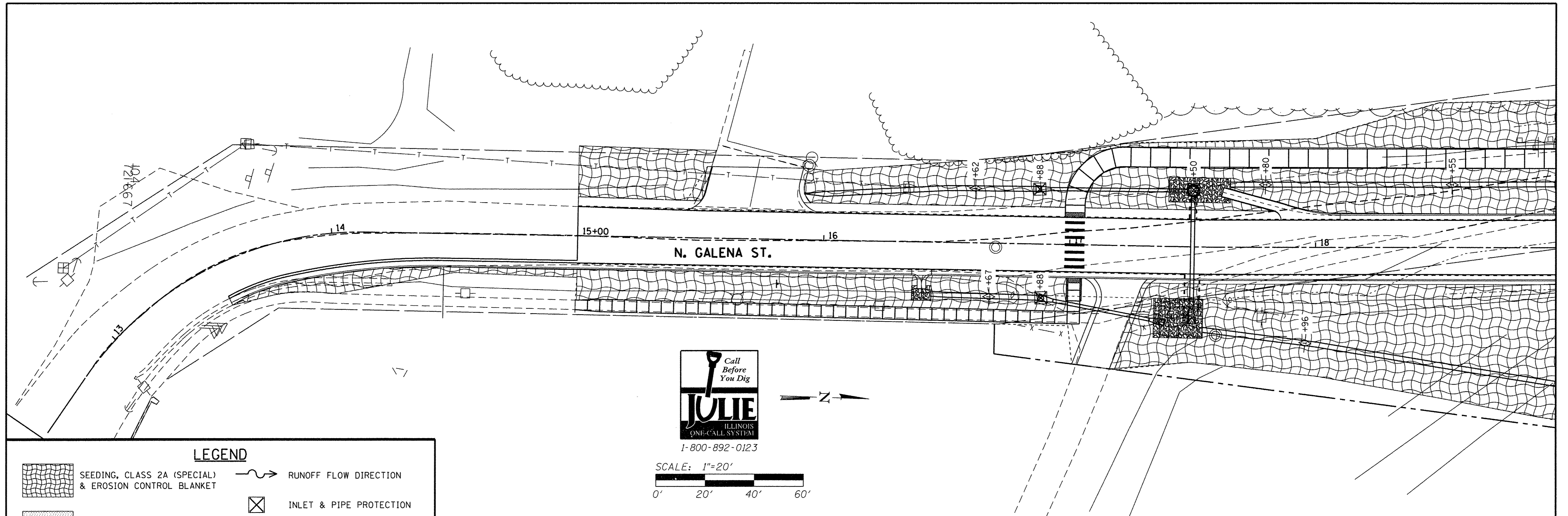
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	18
WHA# 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BR08-0015050				

SCALE: 1" = 20'-0" SHEET NO. 1 OF 1 SHEETS STA. 18+00.00 TO STA. 22+50.00

FILE: S:\PROJECTS\2008\1273D10\Carroll County, Illinois, St. Design\Struct\Drawings\1273D10 Watermain Plan and Profile.dwg
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 BY: [Redacted]
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 DATE: 12/23/08

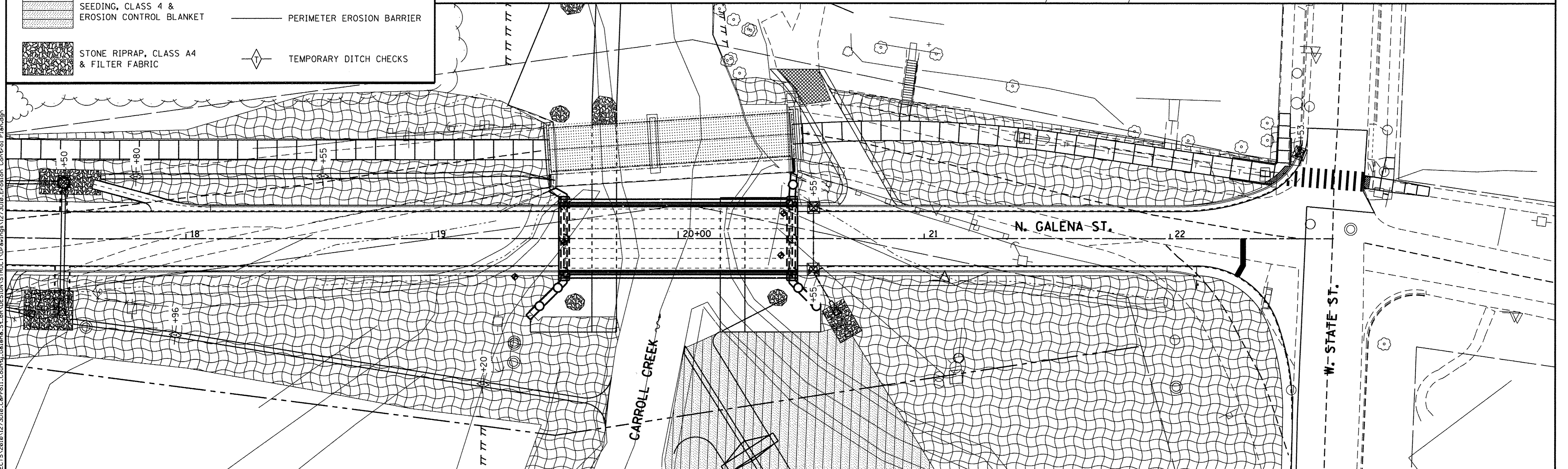


Notes:
 Depth of existing water main shown is approximate; Contractor shall excavate to determine actual depths.
 All ductile iron fittings (bends, wyes, couplings, reducers, etc.) shall be incidental to the water main installation.
 All existing water mains between connection points of new water main shall be abandoned by removing all main lines.



LEGEND

	SEEDING, CLASS 2A (SPECIAL) & EROSION CONTROL BLANKET		RUNOFF FLOW DIRECTION
	SEEDING, CLASS 4 & EROSION CONTROL BLANKET		INLET & PIPE PROTECTION
	STONE RIPRAP, CLASS A4 & FILTER FABRIC		PERIMETER EROSION BARRIER
			TEMPORARY DITCH CHECKS



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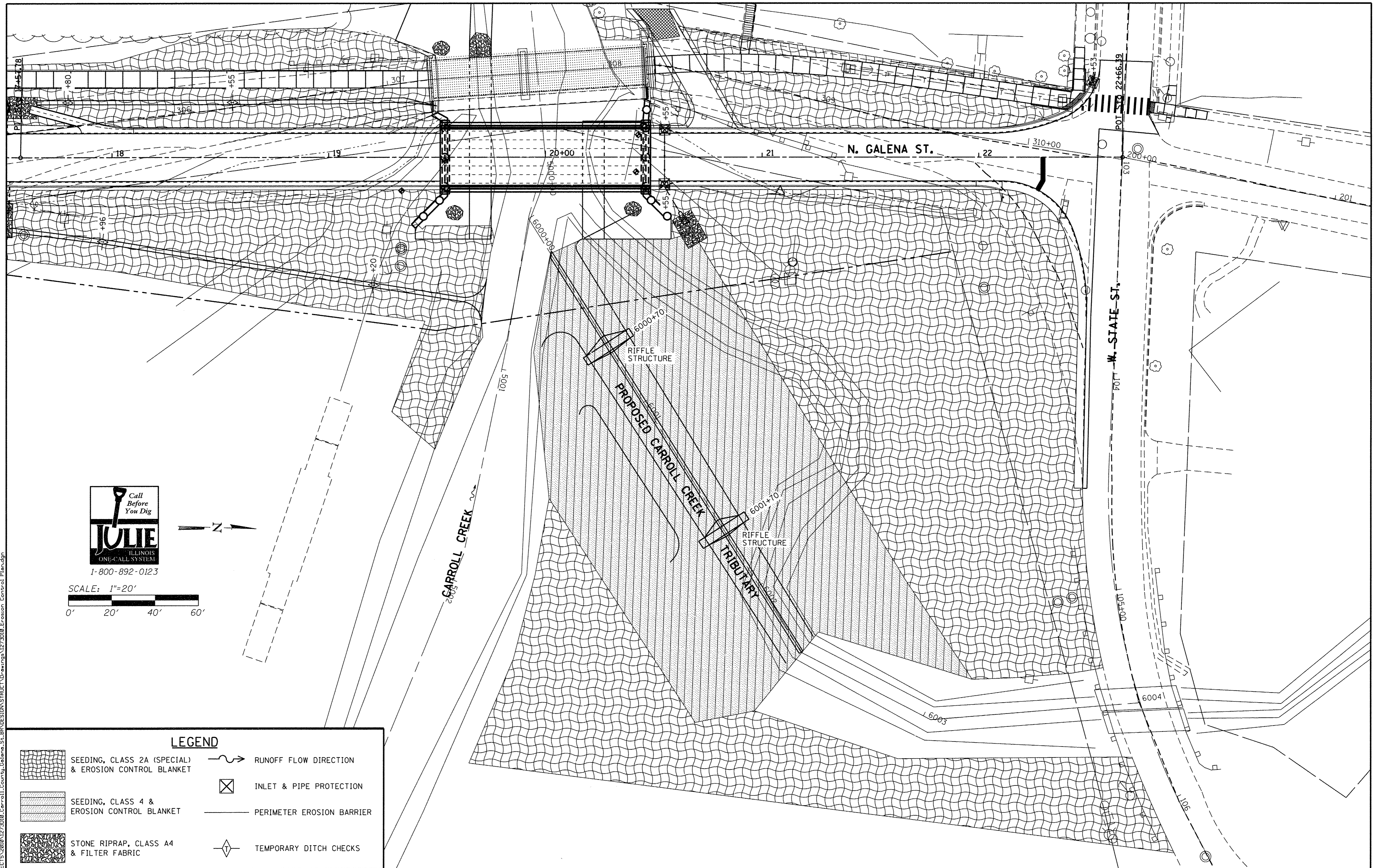
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CHECKED - GFS	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

EROSION CONTROL PLAN

SHEET NO. 1 OF 3 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	19
WHA* 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00150501				



SCALE: 1"=20'
 0' 20' 40' 60'

LEGEND

- SEEDING, CLASS 2A (SPECIAL) & EROSION CONTROL BLANKET
- SEEDING, CLASS 4 & EROSION CONTROL BLANKET
- STONE RIPRAP, CLASS A4 & FILTER FABRIC
- RUNOFF FLOW DIRECTION
- INLET & PIPE PROTECTION
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS

FILE: S:\PROJECTS\2010\1273010_Carroll_County_Galena_St_BR\DESIGN\STRUCT\Drawings\1273010_Erosion_Control_Plan.dgn

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DRAWN - LGN	REVISED -
CHECKED - GFS	REVISED -

**CARROLL COUNTY
 NORTH GALENA ST OVER CARROLL CREEK
 STATION 20+00**

EROSION CONTROL PLAN

SHEET NO. 2 OF 3 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	20
WHA* 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-0010501				

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 CONSTRUCTION OF A NEW BRIDGE ON GALENA STREETD (C.H. 14) OVER CARROLL CREEK, A CHANNEL REALIGNMENT, & APPROACH ROADWAY WORK THERETO.
2. CONSTRUCTION INCLUDES PAVEMENT REMOVAL, EARTH EXCAVATION, CHANNEL EXCAVATION, VARIOUS PAVEMENT ITEMS, BRIDGE & 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. INSTALL PERIMETER EROSION BARRIER AS DIRECTED BY THE ENGINEER.
2. CHANNEL EXCAVATION.
3. BRIDGE AND CULVERT CONSTRUCTION.
4. EARTH EXCAVATION, SHAPING OF DITCHES AND PLACEMENT OF TEMPORARY DITCH CHECKS.
5. AGGREGATE BASE, BITUMINOUS SURFACE AND RELATED APPURTENANCES.
6. PLACEMENT OF PERMANENT EROSION CONTROL INCLUDING SEEDING, AND EROSION CONTROL BLANKET.

AREA OF CONSTRUCTION SITE:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 3.89 ACRES OF WHICH 3.52 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:

THE CARROLL 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 THE ENGINEER'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.

EROSION CONTROL NOTES

- TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS. /ACRES.
- EROSION CONTROL BLANKET SHALL BE INSTALLED TO ALL DISTURBED AREAS WITH SLOPES EQUAL TO OR GREATER THAN 1V:5H AND IN CRITICAL AREAS (I.E. DETENTION BASIN PERIMETERS, STREAMBANKS, BERMS, ETC.) IMMEDIATELY UPON FINAL GRADING.
- ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE REFERENCED FROM THE ILLINOIS URBAN MANUAL.
- TEMPORARY DITCH CHECKS SHALL COMPLY WITH SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD 280001 LOCATED IN THE PROPOSAL.
- EROSION CONTROL BLANKET SHALL BE PLACED IN DITCHES 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.
- THE USE OF ASPHALT AS A BINDER IS NOT ACCEPTABLE.
- ALL ITEMS SHALL BE CONSTRUCTED AS SHOWN ON STANDARD 280001 AND AS DIRECTED BY THE ENGINEER. MAINTENANCE AND CLEANING OF THE EROSION CONTROL ITEMS SHALL BE INCLUDED IN THE RESPECTIVE EROSION CONTROL PAY ITEM.

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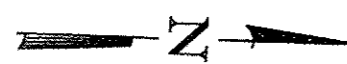
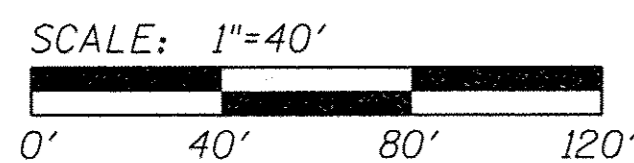


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CHECKED - GFS	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

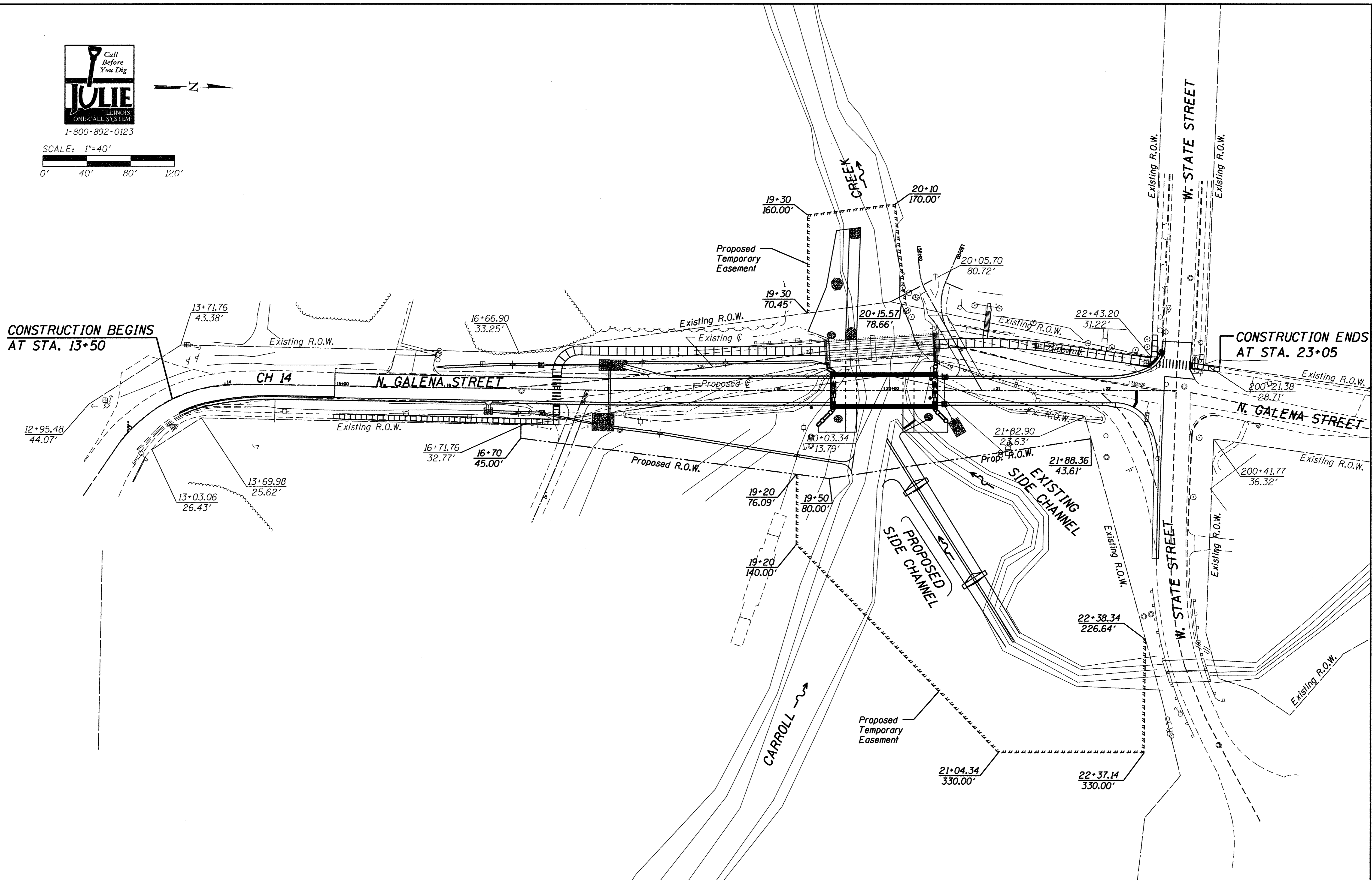
EROSION CONTROL PLAN
SHEET NO. 3 OF 3 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	21
WHA# 1273010		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00150501				



CONSTRUCTION BEGINS AT STA. 13+50

CONSTRUCTION ENDS AT STA. 23+05



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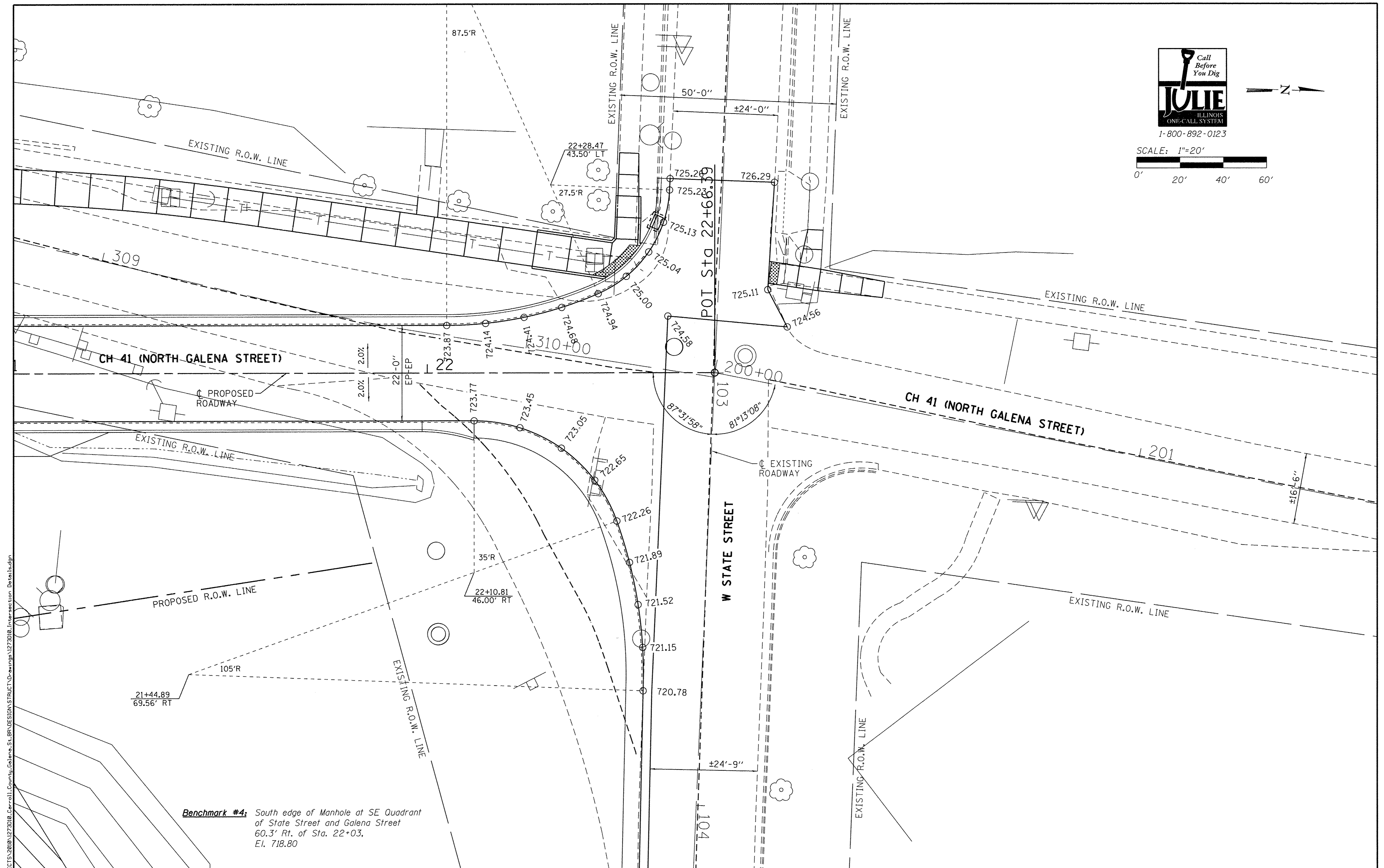
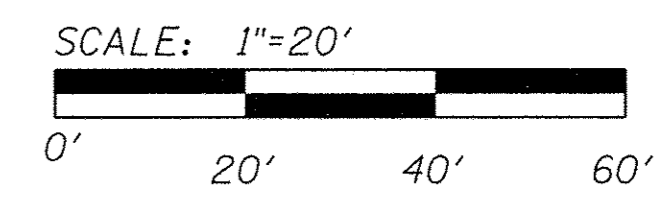
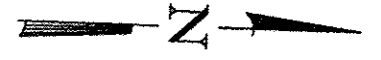
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CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

RIGHT-OF-WAY PLAN

SHEET NO. 1 OF 1 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	23
WHA# 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00150501				



Benchmark #4: South edge of Manhole at SE Quadrant of State Street and Galena Street 60.3' Rt. of Sta. 22+03, El. 718.80

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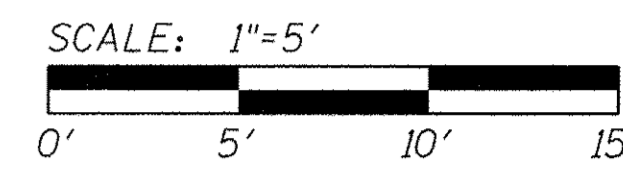
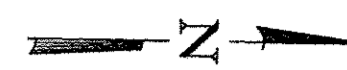
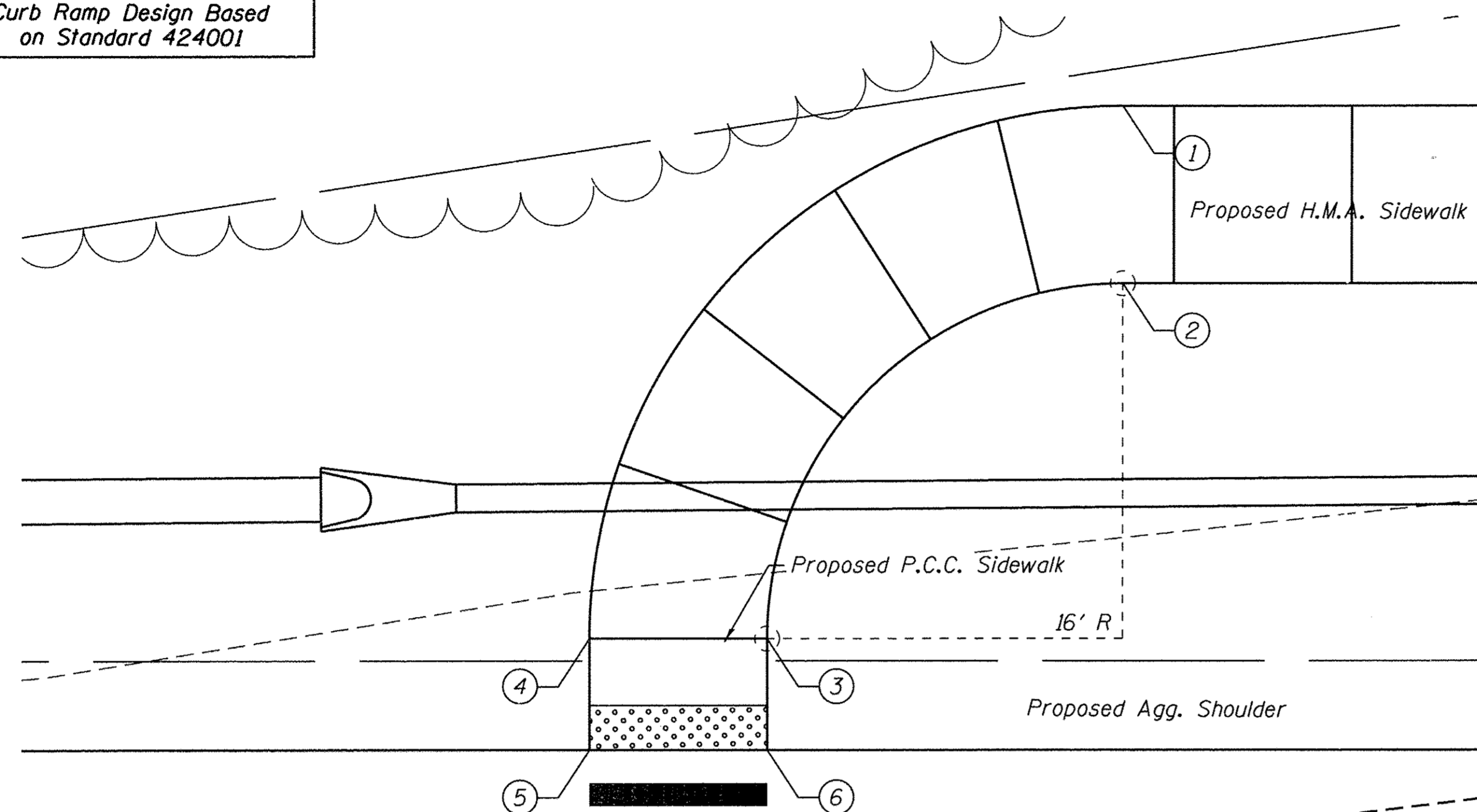
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**CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00**

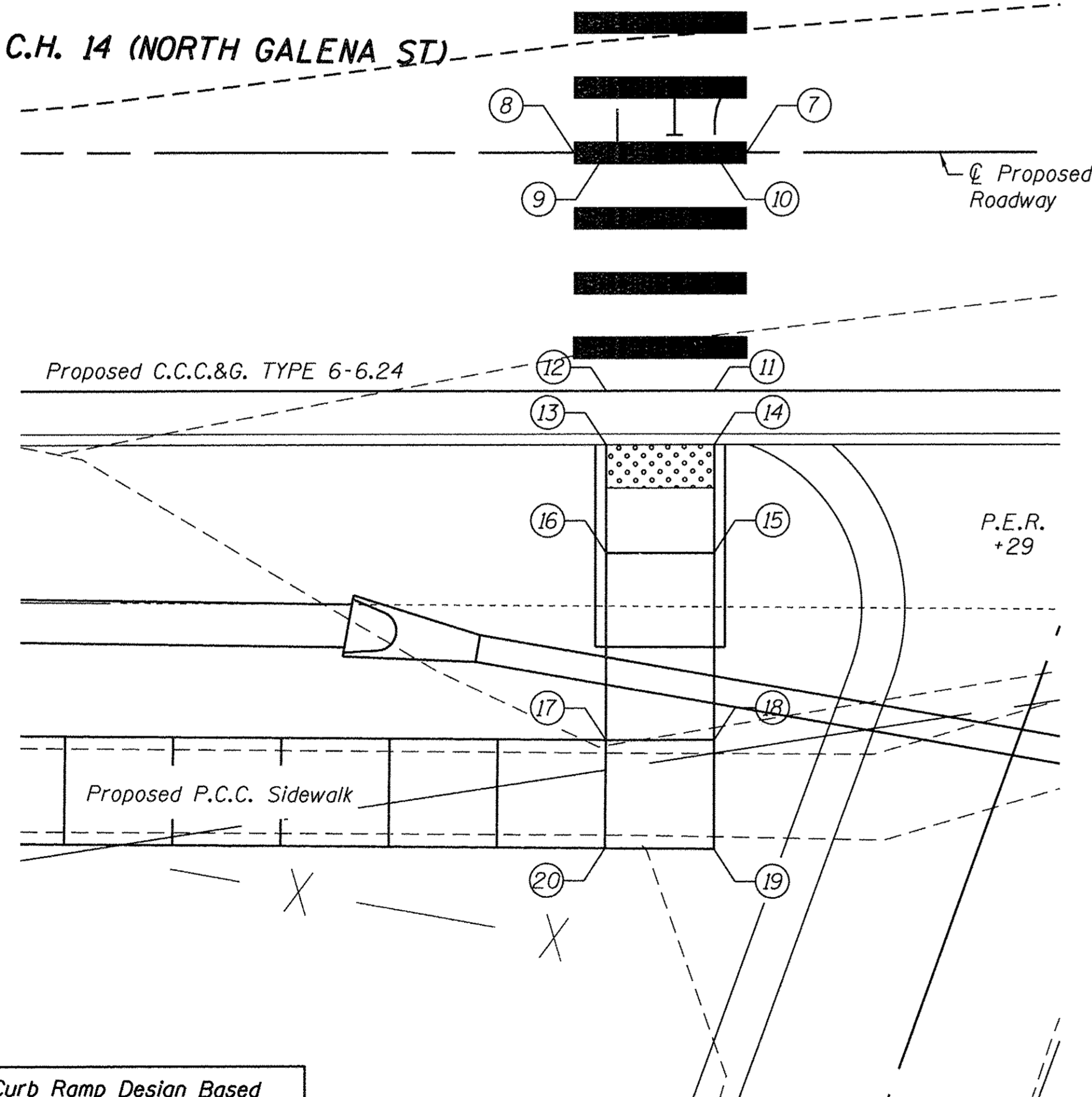
INTERSECTION DETAILS
SHEET NO. 1 OF 1 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	24
WHA# 1273D10			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501				

Curb Ramp Design Based on Standard 424001



C.H. 14 (NORTH GALENA ST)



Curb Ramp Design Based on Standard 424001

POINT	STATION	OFFSET	ELEV.	POINT TO POINT		SIDEWALK DESIGNATION	DISTANCE	Δ ELEVATION	SLOPE	LEGALLY ACCEPTABLE RANGE
							FT	FT	%	POS. OR NEG.
1	17+21.98	-40.00	714.93	1	2	SIDEWALK CROSS SLOPE	8.00	0.12	1.5%	0.0% TO 2.0%
2	17+21.98	-32.00	714.81	2	3	SIDEWALK RUNNING SLOPE	25.13	0.24	1.0%	0.0% TO 5.0%
3	17+05.98	-16.00	714.57	3	4	LANDING/TURNING SPACE	8.00	0.12	1.5%	0.0% TO 2.0%
4	16+97.98	-16.00	714.45	4	5	LANDING/TURNING SPACE	5.00	0.06	1.2%	0.0% TO 2.0%
5	16+97.98	-11.00	714.39	5	6	LANDING/TURNING SPACE	8.00	0.14	1.7%	0.0% TO 2.0%
6	17+05.98	-11.00	714.53	6	7	CROSSWALK RUNNING SLOPE - NO STOP CONDITION	11.00	0.22	2.0%	0.0% TO 5.0%
7	17+05.98	0.00	714.75	7	8	CROSSWALK CROSS SLOPE - NO STOP CONDITION	8.00	0.14	1.7%	0.0% TO 5.0%
8	16+97.98	0.00	714.61	8	5	CROSSWALK RUNNING SLOPE - NO STOP CONDITION	11.00	0.22	2.0%	0.0% TO 5.0%
				1	4	SIDEWALK RUNNING SLOPE	37.70	0.48	1.3%	0.0% TO 5.0%
				3	6	LANDING/TURNING SPACE	5.00	0.04	0.80%	0.0% TO 2.0%
				5	8	CROSSWALK RUNNING SLOPE - NO STOP CONDITION	11.00	0.22	2.0%	0.0% TO 5.0%
9	16+99.48	0.00	714.64	9	12	CROSSWALK RUNNING SLOPE - NO STOP CONDITION	11.00	0.22	2.0%	0.0% TO 5.0%
10	17+04.48	0.00	714.72	10	11	CROSSWALK RUNNING SLOPE - NO YIELD CONDITION	11.00	0.22	2.0%	0.0% TO 5.0%
11	17+04.48	11.00	714.50	11	12	CROSSWALK CROSS SLOPE - NO STOP CONDITION	5.00	0.08	1.6%	0.0% TO 5.0%
12	16+99.48	11.00	714.42	12	13	DEPRESSED CURB & GUTTER	2.50	0.05	N/A	2' @ 5% & 0.5' 1/2" RISE
13	16+99.48	13.50	714.37	13	14	LANDING/TURNING SPACE	5.00	0.08	1.6%	0.0% TO 2.0%
14	17+04.48	13.50	714.45	14	15	LANDING/TURNING SPACE	5.00	0.05	1.0%	0.0% TO 2.0%
15	17+04.48	18.50	714.50	15	18	RAMP RUNNING SLOPE	8.64	0.49	5.7%	0.0% TO 2.0%
16	16+99.48	18.50	714.45	16	17	RAMP RUNNING SLOPE	8.64	0.49	5.7%	5.0% TO 8.3%
17	16+99.48	27.14	714.94	17	18	LANDING/TURNING SPACE	5.00	0.05	1.0%	0.0% TO 2.0%
18	17+04.48	27.14	714.99	18	19	LANDING/TURNING SPACE	5.00	0.08	1.6%	0.0% TO 2.0%
19	17+04.48	32.18	715.07	19	20	LANDING/TURNING SPACE	5.00	0.05	1.0%	0.0% TO 2.0%
20	16+99.44	32.14	715.02	20	17	LANDING/TURNING SPACE	5.00	0.08	1.6%	0.0% TO 2.0%
				11	14	DEPRESSED CURB & GUTTER	2.50	0.05	N/A	2' @ 5% & 0.5' 1/2" RISE
				13	16	LANDING/TURNING SPACE	5.00	0.08	1.6%	0.0% TO 5.0%
				15	16	LANDING/TURNING SPACE	5.00	0.05	1.0%	0.0% TO 5.0%

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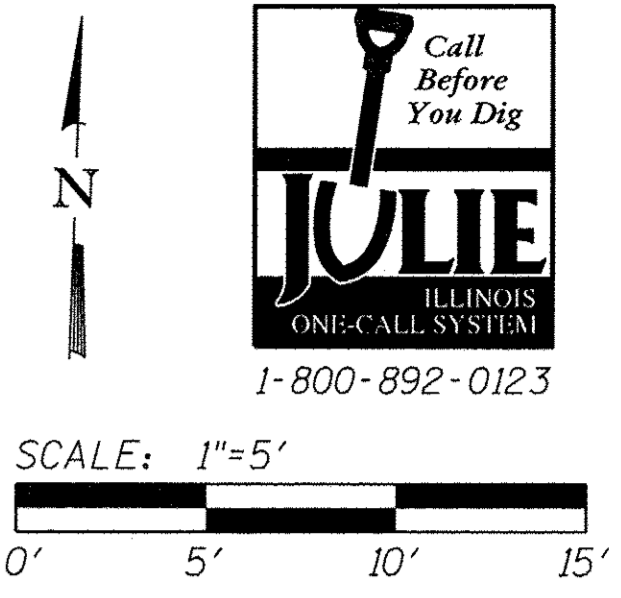
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CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

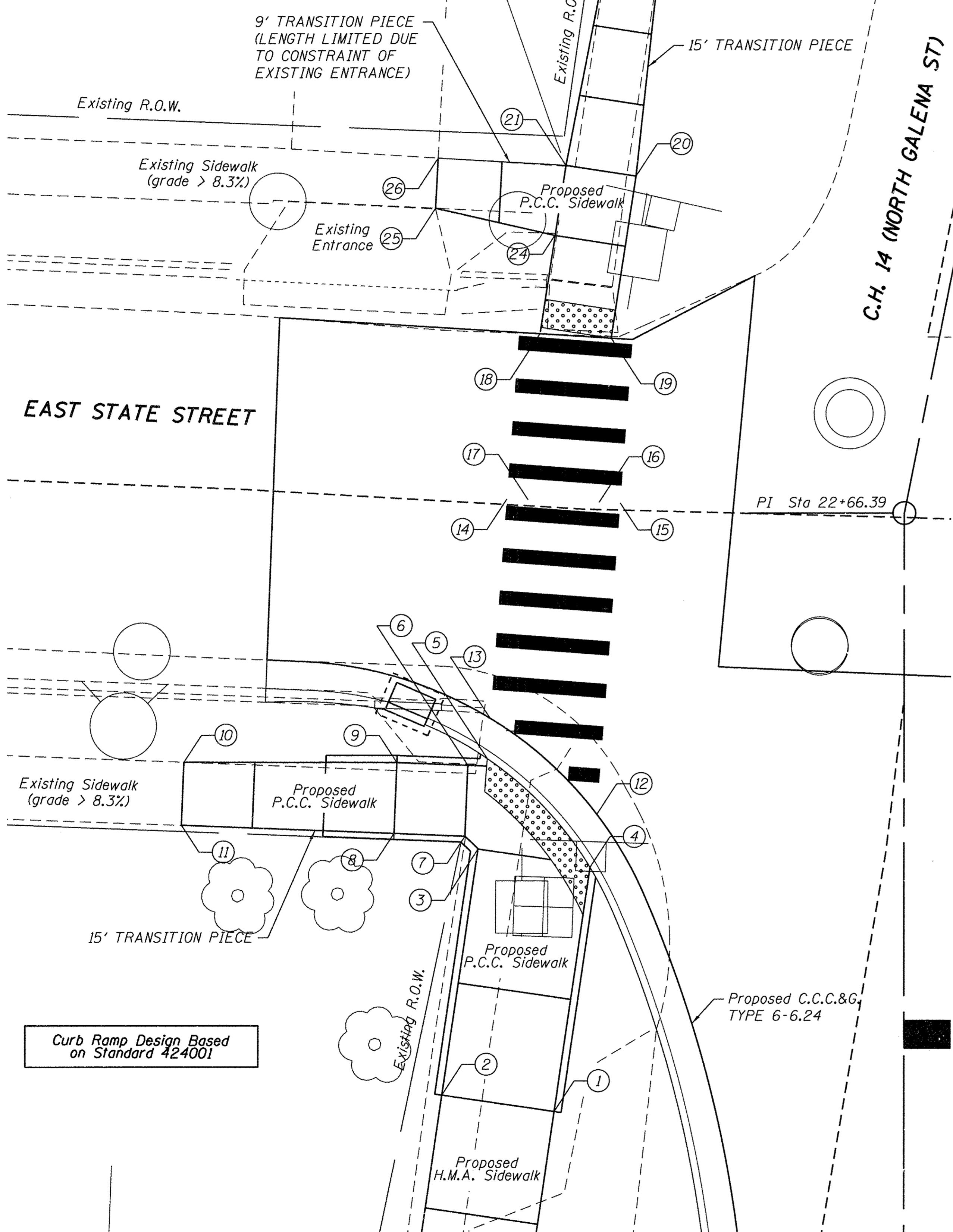
ADA RAMP DETAILS

SHEET NO. 1 OF 2 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	25
WHA# 1273010		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00150501				



Curb Ramp Design Based on Standard 424001



POINT	STATION	OFFSET	ELEV.	POINT TO POINT	SIDEWALK DESIGNATION	DISTANCE	△	SLOPE	LEGALLY
							ELEVATION		ACCEPTABLE RANGE
						FT	FT	%	POS. OR NEG.
1	22+24.24	-24.65	725.12	1 2	SIDEWALK CROSS SLOPE	8.00	0.12	1.5%	0.0% TO 2.0%
2	22+25.40	-32.56	725.24	2 3	SIDEWALK RUNNING SLOPE	17.50	0.17	1.0%	0.0% TO 5.0%
3	22+42.72	-30.02	725.07	3 4	LANDING/TURNING SPACE	8.00	0.12	1.5%	0.0% TO 2.0%
4	22+41.44	-22.13	724.95	4 5	LANDING/TURNING SPACE	10.55	0.17	1.6%	0.0% TO 2.0%
5	22+49.10	-29.38	725.12	5 7	LANDING/TURNING SPACE	6.39	0.07	1.1%	0.0% TO 2.0%
6	22+48.62	-30.75	724.97	6 7	LANDING/TURNING SPACE	5.00	0.08	1.6%	0.0% TO 2.0%
7	22+43.63	-30.95	725.05	7 8	LANDING/TURNING SPACE	5.00	0.08	1.6%	0.0% TO 2.0%
8	22+43.83	-35.94	725.13	8 9	LANDING/TURNING SPACE	5.00	0.08	1.6%	0.0% TO 2.0%
9	22+48.82	-35.75	725.05	9 10	RAMP RUNNING SLOPE	15.00	1.82	12.1%	5.0% TO 8.3% (MAX 15')
10	22+48.86	-50.76	726.87	10 11	MATCH EXISTING CROSS SLOPE	4.43	0.14	3.2%	MATCH EXISTING
11	22+44.42	-50.93	727.01	11 8	RAMP RUNNING SLOPE	15.00	1.88	12.5%	5.0% TO 8.3% (MAX 15')
12	22+45.17	-21.65	725.04	12 13	CROSSWALK CROSS SLOPE - NO STOP CONDITION	10.12	0.13	1.3%	0.0% TO 5.0%
13	22+51.94	-29.17	725.17	13 14	CROSSWALK RUNNING SLOPE - NO STOP CONDITION	15.48	0.39	2.5%	0.0% TO 5.0%
14	22+66.39	-28.04	725.56	14 15	CROSSWALK CROSS SLOPE - NO STOP CONDITION	8.00	0.39	4.9%	0.0% TO 5.0%
15	22+66.39	-20.03	725.17	15 12	CROSSWALK RUNNING SLOPE - NO STOP CONDITION	21.99	0.13	0.6%	0.0% TO 5.0%
				1 4	LANDING/TURNING SPACE	17.38	0.17	1.0%	0.0% TO 2.0%
				3 7	LANDING/TURNING SPACE	1.28	0.02	1.6%	0.0% TO 2.0%
				6 9	LANDING/TURNING SPACE	5.00	0.08	1.6%	0.0% TO 2.0%
16	22+66.39	-21.53	725.24	16 17	CROSSWALK CROSS SLOPE - NO STOP CONDITION	5.00	0.25	5.0%	0.0% TO 5.0%
17	22+66.39	-26.54	725.49	17 18	CROSSWALK RUNNING SLOPE - NO STOP CONDITION	11.73	0.29	2.5%	0.0% TO 5.0%
18	22+73.78	-27.65	725.20	18 19	LANDING/TURNING SPACE	5.02	0.08	1.6%	0.0% TO 2.0%
19	22+74.45	-22.68	725.12	19 20	LANDING/TURNING SPACE	11.55	0.18	1.6%	0.0% TO 2.0%
20	22+85.99	-23.19	725.30	20 21	LANDING/TURNING SPACE	5.00	0.08	1.6%	0.0% TO 2.0%
21	22+85.77	-28.19	725.38	21 22	SIDEWALK RUNNING SLOPE	15.00	0.05	0.3%	0.0% TO 5.0%
22	23+00.78	-28.23	725.33	22 23	MATCH EXISTING CROSS SLOPE	3.72	0.06	1.6%	MATCH EXISTING
23	23+00.95	-24.52	725.27	23 20	SIDEWALK RUNNING SLOPE	15.00	0.03	0.2%	0.0% TO 5.0%
24	22+80.77	-27.97	725.30	24 25	RAMP RUNNING SLOPE	8.65	0.93	10.8%	5.0% TO 8.3% (MAX 15')
25	22+81.02	-36.61	726.23	25 26	MATCH EXISTING CROSS SLOPE	3.54	0.08	2.3%	MATCH EXISTING
26	22+84.52	-37.12	726.31	26 21	RAMP RUNNING SLOPE	9.02	0.93	10.3%	5.0% TO 8.3% (MAX 15')
				16 19	CROSSWALK RUNNING SLOPE - NO STOP CONDITION	11.60	0.12	1.0%	0.0% TO 5.0%
				18 24	LANDING/TURNING SPACE	7.00	0.10	1.4%	0.0% TO 2.0%
				21 24	LANDING/TURNING SPACE	5.00	0.08	1.6%	0.0% TO 2.0%

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

DESIGNED - LGN
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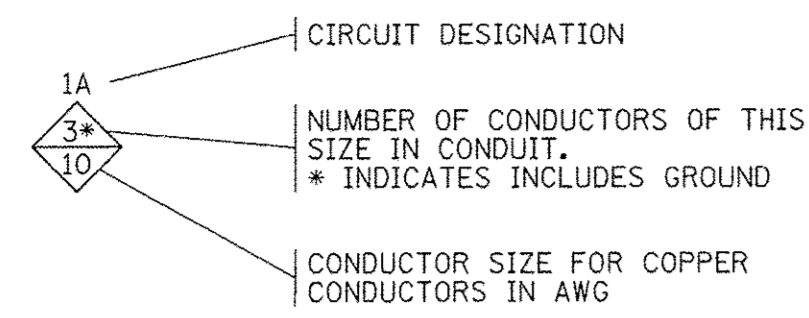
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

ADA RAMP DETAILS
SHEET NO. 2 OF 2 SHEETS

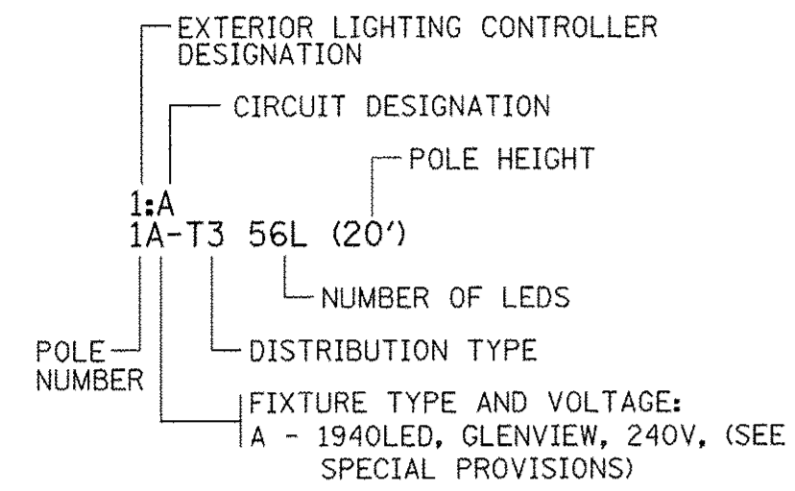
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	26
WHA# 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00150501				

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CONDUCTOR SYMBOL SCHEME



CIRCUIT DESIGNATION SCHEME

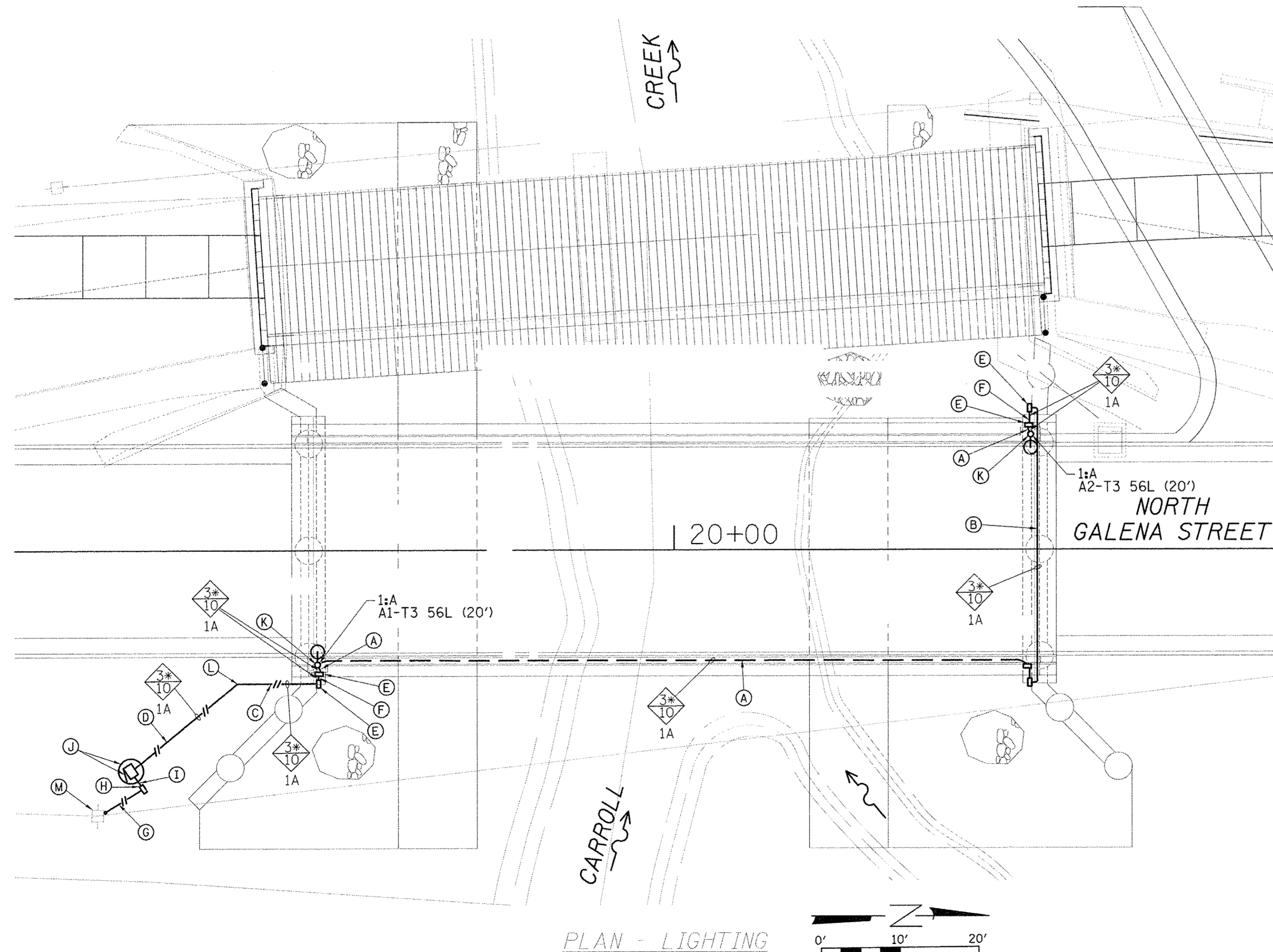


KEYED NOTES (THIS SHEET)

- (A) 2" PVC CONDUIT EMBEDDED IN CONCRETE PARAPET STRUCTURE. SEE STRUCTURAL DETAIL.
- (B) 2" RIGID GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE. MOUNT CONDUIT TO STRUCTURE AT 12" BELOW BRIDGE DECK.
- (C) 2" UNDERGROUND RIGID GALVANIZED STEEL CONDUIT.
- (D) 2" UNDERGROUND PVC CONDUIT.
- (E) 12"x12"x6", STAINLESS STEEL JUNCTION BOX MOUNTED TO STRUCTURE.
- (F) 2" FLEXIBLE, LIQUID TIGHT, METALLIC CONDUIT. CONNECT TO JUNCTION BOX ON BOTH ENDS UTILIZING FITTINGS DESIGNED AND LISTED FOR USE WITH FLEXIBLE LIQUID TIGHT, METALLIC CONDUIT. SEE SPECIAL PROVISIONS.
- (G) 2 1/2" UNDERGROUND PVC CONDUIT, EMPTY WITH PULL STRING FOR JO-CARROLL ENERGY COMPANY SERVICE CABLES. SERVICE CABLES BY JO-CARROLL ENERGY COMPANY. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN ELECTRICAL SERVICE INSTALLATION, SPECIAL. SEE ELECTRICAL SERVICE INSTALLATION, SPECIAL IN THE SPECIAL PROVISIONS.
- (H) UNIVERSAL ALL-IN-ONE METERING PEDESTAL AND GROUND ROD. SEE DETAIL - ELECTRICAL SERVICE INSTALLATION, AND SPECIAL PROVISIONS.
- (I) 1 1/2" UNDERGROUND PVC CONDUIT WITH 3#6, 1#6GRD. FOR FEEDER TO LIGHTING CONTROLLER IN LIGHTING CONTROL PEDESTAL. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN ELECTRICAL SERVICE INSTALLATION, SPECIAL. SEE ELECTRICAL SERVICE INSTALLATION, SPECIAL IN THE SPECIAL PROVISIONS.
- (J) LIGHTING CONTROLLER "1", PEDESTAL AND FOUNDATION. SEE SPECIAL PROVISIONS.
- (K) MOUNT POLE TO LIGHT POLE FOUNDATION. LIGHT POLE FOUNDATION IS INTEGRAL TO PARAPET STRUCTURE. SEE STRUCTURAL DETAILS.
- (L) SPLICE PVC CONDUIT TO RIGID GALVANIZED STEEL CONDUIT WITH FITTINGS LISTED AND APPROVED FOR UNDERGROUND USE.
- (M) EXISTING JO-CARROLL ENERGY UTILITY POLE. CONFIRM LOCATION WITH JO-CARROLL ENERGY.

ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2014 NATIONAL ELECTRICAL CODE, THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND ALL APPLICABLE LOCAL ORDINANCES.
2. THE CONTRACTOR SHALL FURNISH ALL MATERIALS FOR A COMPLETE AND WORKABLE SYSTEM.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND FOR PROVIDING ALL SUPERVISION, LABOR, MATERIAL AND TOOLS FOR THE PROJECT.
4. ALL LOCATIONS AND DIMENSIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY ALL EQUIPMENT LOCATIONS AND EQUIPMENT DIMENSIONS.
5. ALL CONDUITS WITH WIRING SHALL BE PROVIDED WITH AN INSULATED COPPER GROUNDING CONDUCTOR SIZED AS NOTED ON PLANS AND IN ACCORDANCE WITH THE 2014 NATIONAL ELECTRICAL CODE.
6. ALL GROUNDING CONDUCTORS SHALL BE BONDED TOGETHER IN ALL HANDHOLES AND JUNCTION BOXES. (SEE DETAILS)
7. ALL SERVICE LATERAL CONDUITS SHALL BE SCHEDULE 40 PVC EXCEPT ALL ELBOWS AND VERTICAL RISERS SHALL BE SCHEDULE 80 PVC. ALL ELBOWS SHALL BE LONG RADIUS TYPE. CONTRACTOR SHALL VERIFY AND COMPLY WITH ALL JO-CARROLL ENERGY REQUIREMENTS FOR THE SERVICE INSTALLATION.
8. CONDUIT ROUTING SHOWN IS SCHEMATIC ONLY. CONTRACTOR SHALL COORDINATE EXACT ROUTING AND INSTALLATION WITH ALL OTHER SITE WORK BEING PERFORMED. COORDINATE ALL POLE LOCATIONS WITH ENGINEER IN THE FIELD.
9. PROVIDE PULLSTRING IN ALL CONDUITS, INCLUDING THOSE CONDUITS WITH CONDUCTORS INSTALLED. THE PULL STRING SHALL BE INCLUDED IN THE COST OF THE CONDUITS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
10. THE CONTRACTOR SHALL TAG ALL ELECTRICAL CONDUCTORS (PHASE CONDUCTORS, NEUTRALS, AND GROUNDS) WITH PERMANENT TAGS. EACH CONDUCTOR SHALL BE TAGGED IN ALL CONCRETE HANDHOLES, JUNCTION BOXES, AND POLE HANDHOLES. THE TAG SHALL INDICATE THE LIGHTING CONTROLLER AND CIRCUIT NUMBER FROM WHICH THE CONDUCTORS ORIGINATE.
11. ALL CONDUITS SHALL BE 30" BELOW FINAL GRADE UNLESS OTHERWISE DIRECTED BY THE ENGINEER. CONTRACTOR IS RESPONSIBLE FOR REPAIR TO ALL UNDERGROUND UTILITIES DAMAGED DURING INSTALLATION OF ROADWAY LIGHTING AND FEEDER SYSTEMS.
12. SERVICE GROUND RODS SHALL BE 3/4" DIAMETER X 10'-0" LONG COPPER CLAD STEEL. GROUND RODS AT POLES SHALL BE 1" DIAMETER X 10'-0" LONG. GROUNDING ELECTRODE CONDUCTORS SHALL BE #4 SOLID COPPER AND SHALL BE CONNECTED WITH HYDRAULIC CRIMP TYPE CONNECTIONS TO GROUNDING ELECTRODE. GROUND RODS SHALL BE INSTALLED AT LIGHTING CONTROLLER, HANDHOLES AND JUNCTION BOXES.
13. POLE WIRING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED WITH THE LUMINAIRE PER ARTICLE 821.03 OF THE STANDARD SPECIFICATIONS.
14. CONDUITS ARE INDICATED AS TRENCHED OR AUGERED FOR INFORMATION PURPOSES. ALL CONDUIT WILL BE PAID AT THE CONTRACT UNIT PRICE PER FOOT FOR UNDERGROUND CONDUIT OF THE TYPE AND SIZE SPECIFIED.



BRIDGE LIGHTING BILL OF MATERIALS			
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY
81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	10
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	25
81100600	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	40
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	110
81300550	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	6
81702110	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	645
82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1
X0326654	ORNAMENTAL LIGHT UNIT, COMPLETE	EACH	2
X1400023	CONDUIT, FLEXIBLE, LIQUID TIGHT, METALLIC, 2" DIAMETER	FOOT	18
X8040102	ELECTRIC SERVICE INSTALLATION, SPECIAL	EACH	1

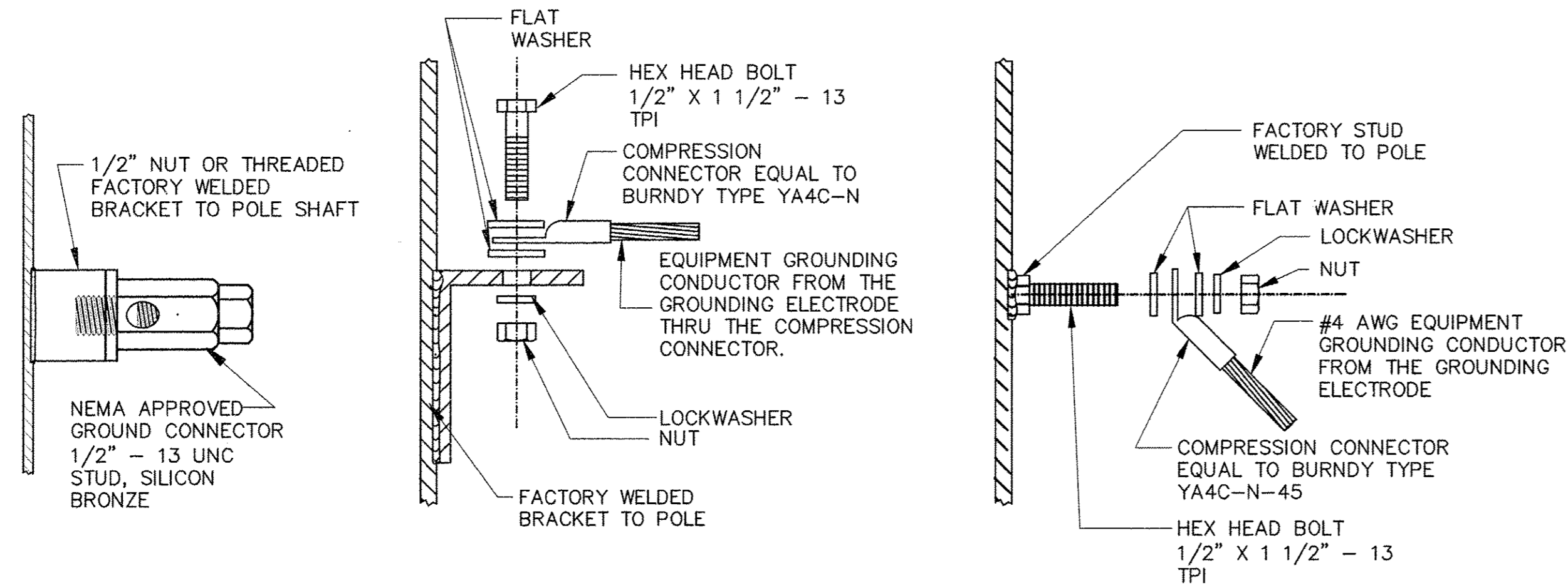
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CHECKED - LMZ	REVISED -
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CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

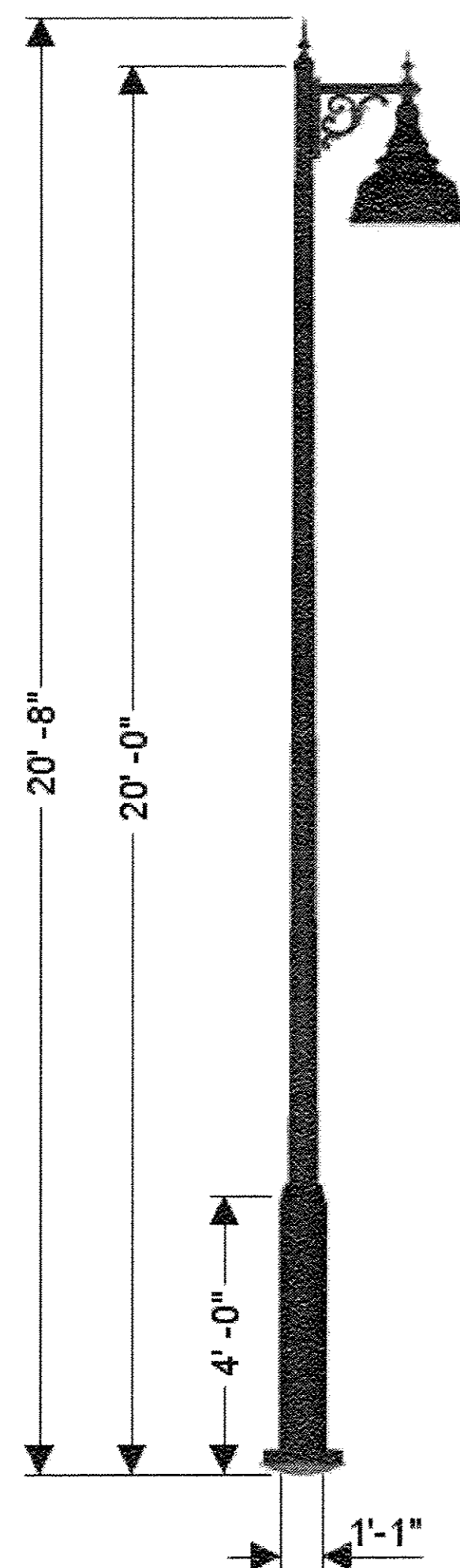
LIGHTING DETAILS
 SHEET NO. 1 OF 2 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	27
WHA# 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BR05-00180601				

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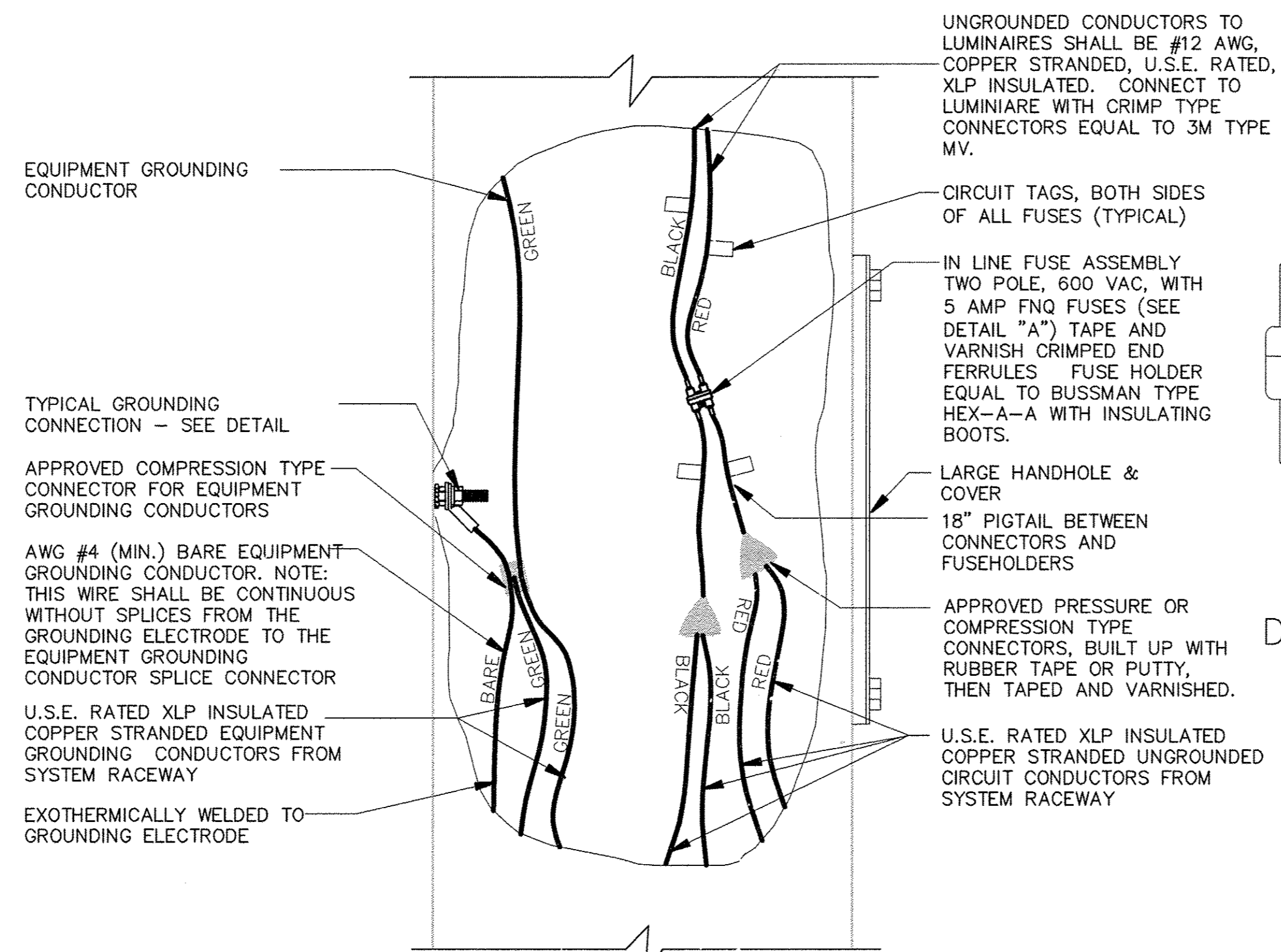


TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, AND WASHERS SHALL BE STAINLESS STEEL



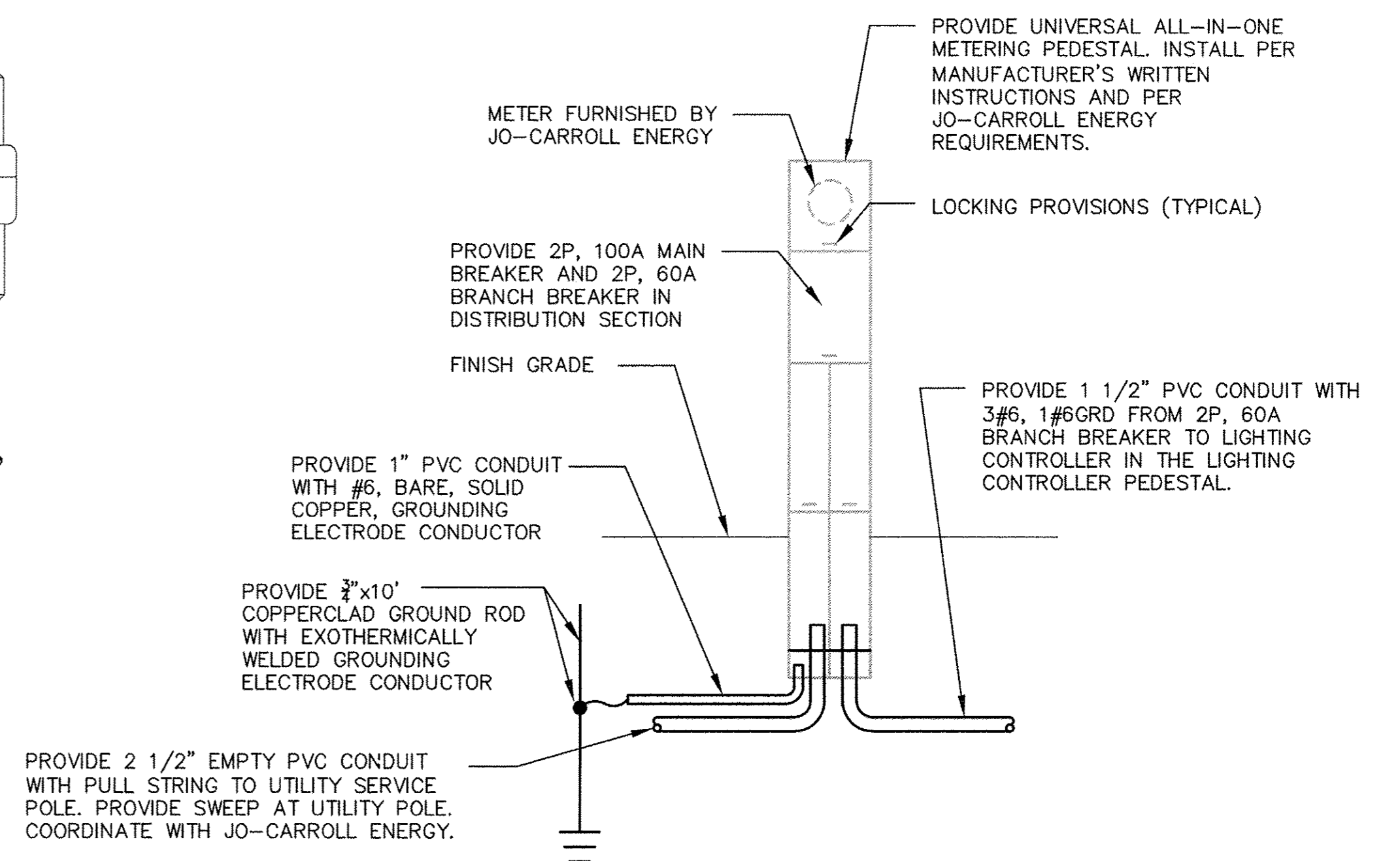
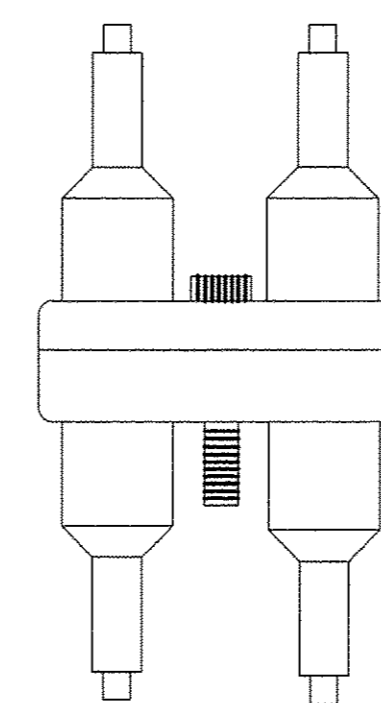
DETAIL - ORNAMENTAL LIGHTING UNIT COMPLETE

NO SCALE



2 WIRE -- 240 VAC (UNGROUND ED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

NO SCALE



DETAIL - ELECTRIC SERVICE INSTALLATION

NO SCALE

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DESIGNED - MLS	REVISED -
CHECKED - LMZ	REVISED -
DRAWN - MLS	REVISED -
CHECKED - LMZ	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

LIGHTING DETAILS

SHEET NO. 2 OF 2 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	28
WHA# 1273010		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00150501				

EXISTING STRUCTURE: S.N. 008-6100
Originally constructed in 1901 at Sta. 307+70 as a single span (1 @ 97'-0") steel truss bridge. The structure is supported on limestone closed abutments. The existing bridge is 99'-0" end to end of deck and 18'-0" out to out of deck.

The existing structure is to remain in place as a pedestrian bridge.

Road will be closed to traffic during construction.

BENCH MARK: Chis. "□" on the NW headwall of the exist. bridge, El. 722.50

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Riprap and Shaft Layout
- 3 Superstructure
- 4 Superstructure Details
- 5 42" x 48" Deck Beam
- 6 42" x 48" Deck Beam Details
- 7-8 South Abutment Details
- 9-10 North Abutment Details
- 11 Bar Splicer Assembly and Mechanical Splicer Details
- 12-15 Boring Logs

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims

DESIGN STRESSES

FIELD UNITS

$f'_c = 4,000$ psi (Superstructure)
 $f_y = 60,000$ psi (Reinforcement)

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi ($\frac{1}{2}$ " ϕ Low Lax Strands)
 $f_{pbt} = 201,960$ psi ($\frac{1}{2}$ " ϕ Low Lax Strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{d1}) = 0.089
Design Spectral Acceleration at 0.2 sec. (S_{d5}) = 0.055
Soil Site Class = C

LOADING HL-93

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

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)	Item 113
State	S. Abut. N. Abut.	
Q100	691.32 697.82	5
Q200	691.32 697.82	
Design	691.32 697.82	
Check	691.32 697.82	

BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A5	Sq. Yd.		812	812
Filter Fabric	Sq. Yd.		812	812
Structure Excavation	Cu. Yd.		96	96
* Concrete Structures	Cu. Yd.		191.1	191.1
Concrete Superstructure	Cu. Yd.	22.1		22.1
Bridge Deck Grooving	Sq. Yd.	259		259
Protective Coat	Sq. Yd.	361		361
Precast Prestressed Concrete Deck Beams (42" Depth)	Sq. Ft.	2,965		2,965
Reinforcement Bars	Pound		34,390	34,390
Reinforcement Bars, Epoxy Coated	Pound	9,250	47,440	56,690
Bar Splicers	Each		531	531
Name Plates	Each	1		1
* Drilled Shaft in Soil	Cu. Yd.		53.5	53.5
* Drilled Shaft in Rock	Cu. Yd.		60.6	60.6
* Concrete Wearing Surface, 5"	Sq. Yd.	345		345
* Granular Backfill for Structures	Cu. Yd.		148	148
* Pipe Underdrains for Structures 4"	Foot		116	116
Geocomposite Wall Drain	Sq. Yd.		98	98

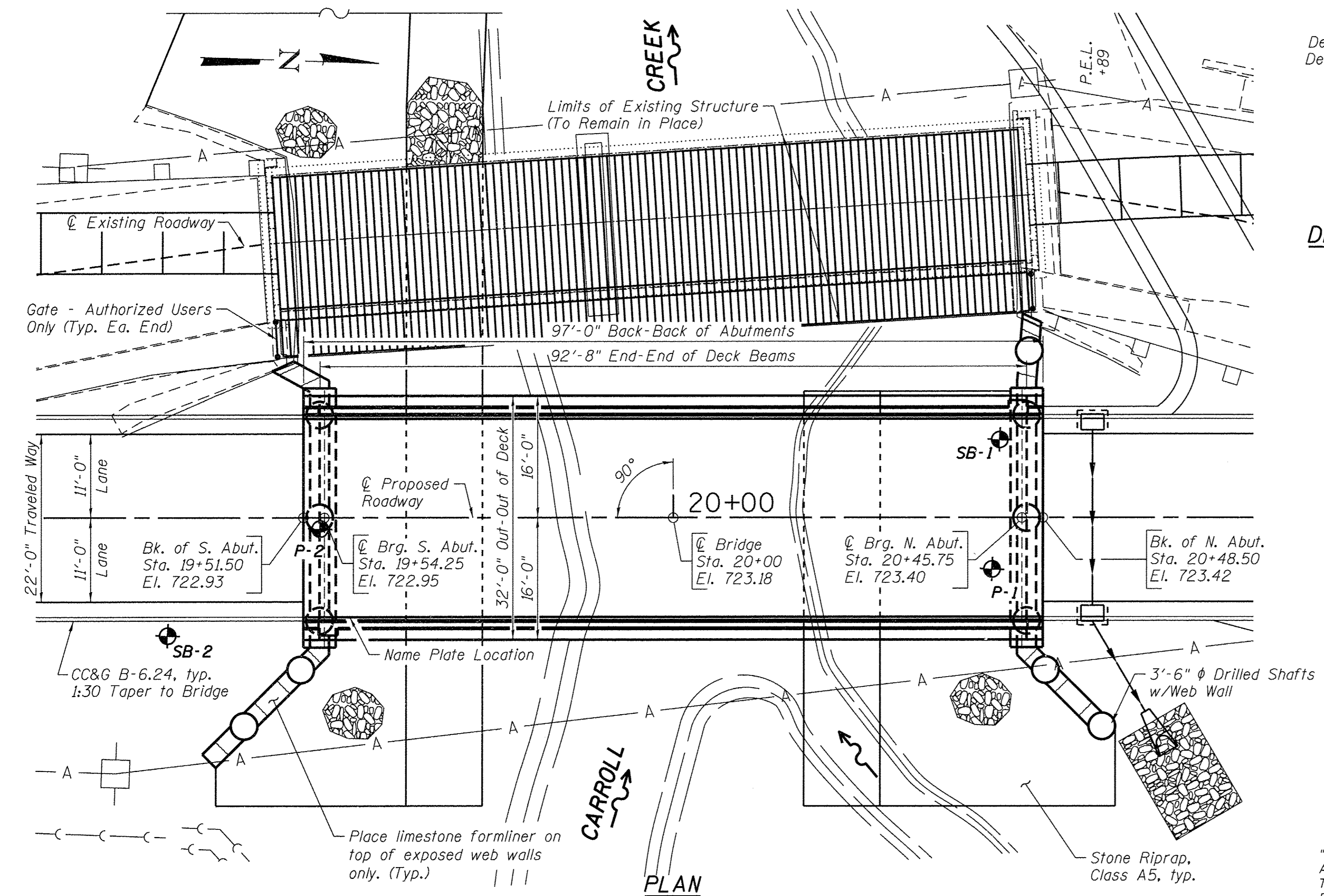
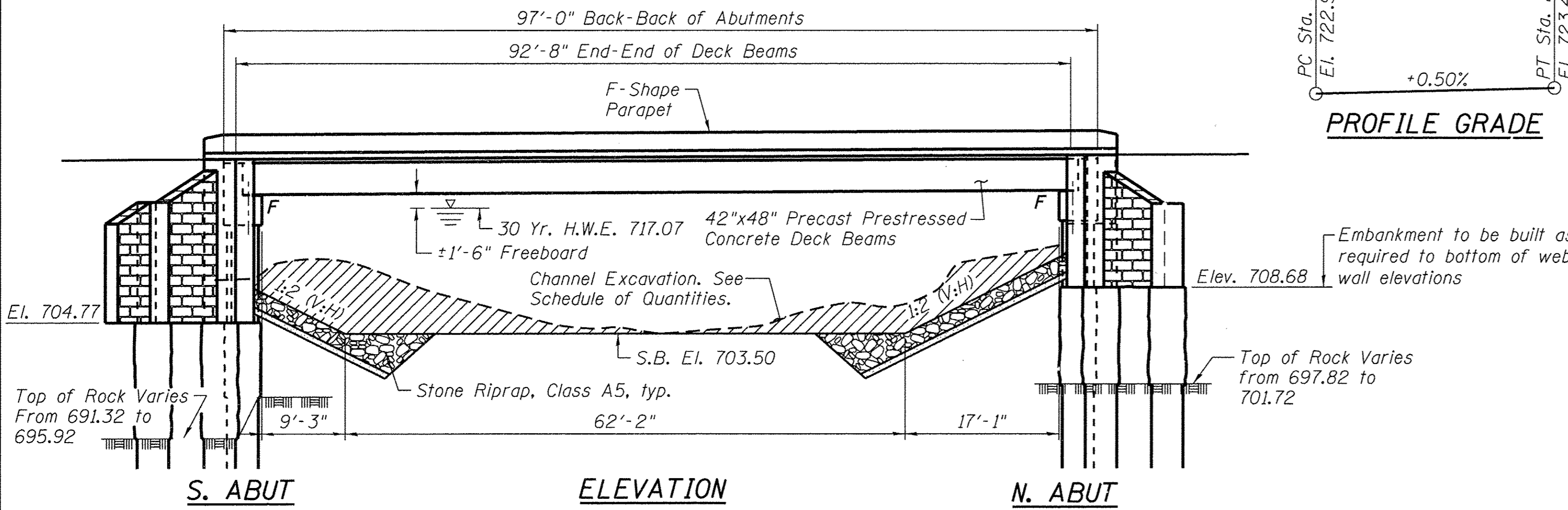
GENERAL NOTES:

Reinforcement bars designated (E) shall be epoxy coated.
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the shafts and webwalls.
Backfill shall be placed behind the abutment after the deck beams have been set and the dowel rod grout cured. See Article 502.10 of the Standard Specifications.
Slip forming of the parapet is not allowed.
See plan sheets 44 of 51 for historical structure details.
*See special provisions.
Slip forming of the parapet is not allowed.
See plan sheets 44 to 51 for historical structure details.

WATERWAY INFORMATION

		Drainage Area = 50.1 sq. mi.		Low Grade El. 715.06 @ Sta. 15+36.06		
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft. Exist. *Prop.	Headwater El. Exist. *Prop.
Overtopping	5	3,436	548 982	715.66	0.00 0.00	715.66 715.66
Design	30	5,700	678 1,109	717.07	0.02 0.00	717.09 717.07
Base	100	7,105	754 1,183	717.89	0.06 0.00	717.95 717.89
Scour Check	200	7,400	770 1,198	718.06	0.07 0.00	718.26 718.06
Max. Calc.	500	7,670	784 1,212	718.22	0.07 0.00	718.29 718.22

*Proposed structure modeled in HEC-RAS as the opening of the proposed and the width of the existing and proposed combined since they are so close.



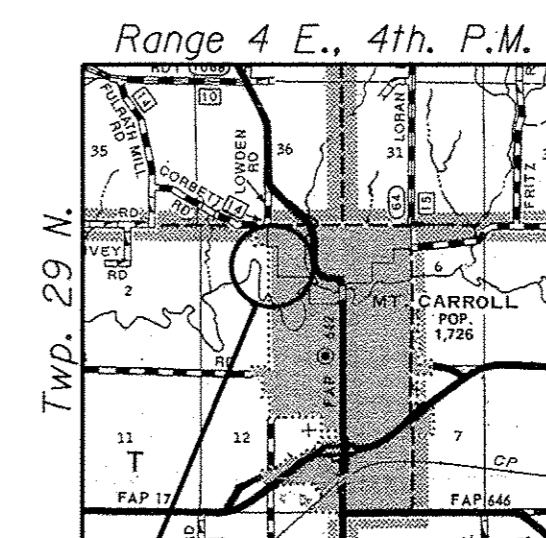
CARROLL CREEK
BUILT 2017 BY
CARROLL COUNTY
SECTION 08-00027-00-BR
C.H. RTE. 14 STATION 20+00
STR. NO. 008-6103 LOADING HL-93

NAME PLATE LETTERING
Refer To Std. 515001-03



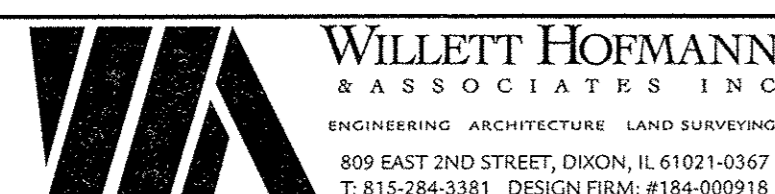
DATE: *Combs to Combs*
EXPIRES 11/30/18

"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 LRFD Bridge Design Specifications'."



Bridge Location LOCATION SKETCH

**GENERAL PLAN AND ELEVATION
PROPOSED STRUCTURE
NORTH GALENA STREET OVER
CARROLL CREEK
SECTION 08-00027-00-BR
CARROLL COUNTY
STATION 20+00
STRUCTURE NO. 008-6103**



DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

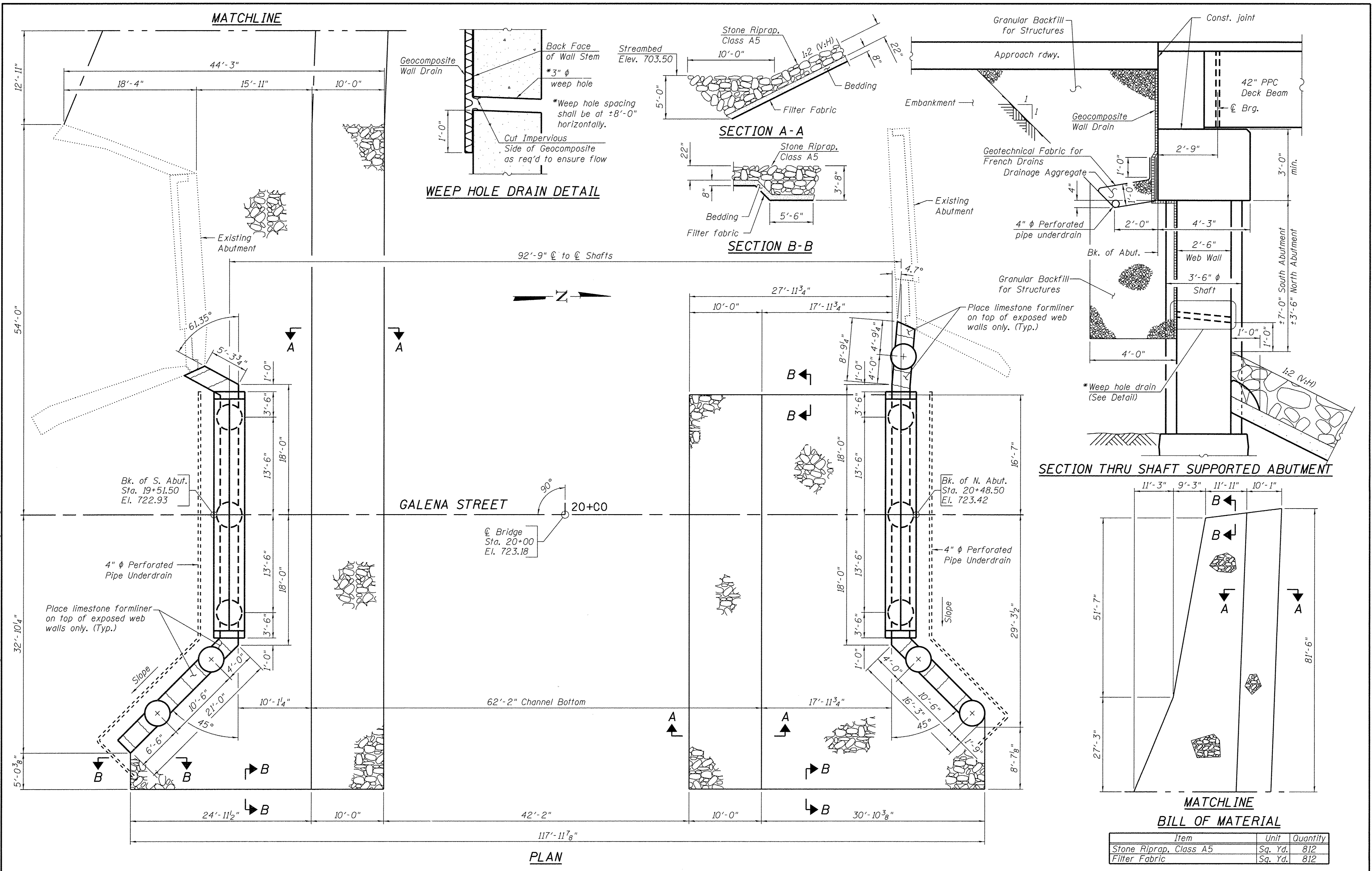
**CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00**

**GENERAL PLAN AND ELEVATION - PROPOSED STRUCTURE
STRUCTURE NO. 008-6103**

STRUCTURAL SHEET NO. 1 OF 15 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	29
WHA# 1273D10			CONTRACT NO. 85654	
[ILLINOIS] FED. AID PROJECT BROS-00150501				

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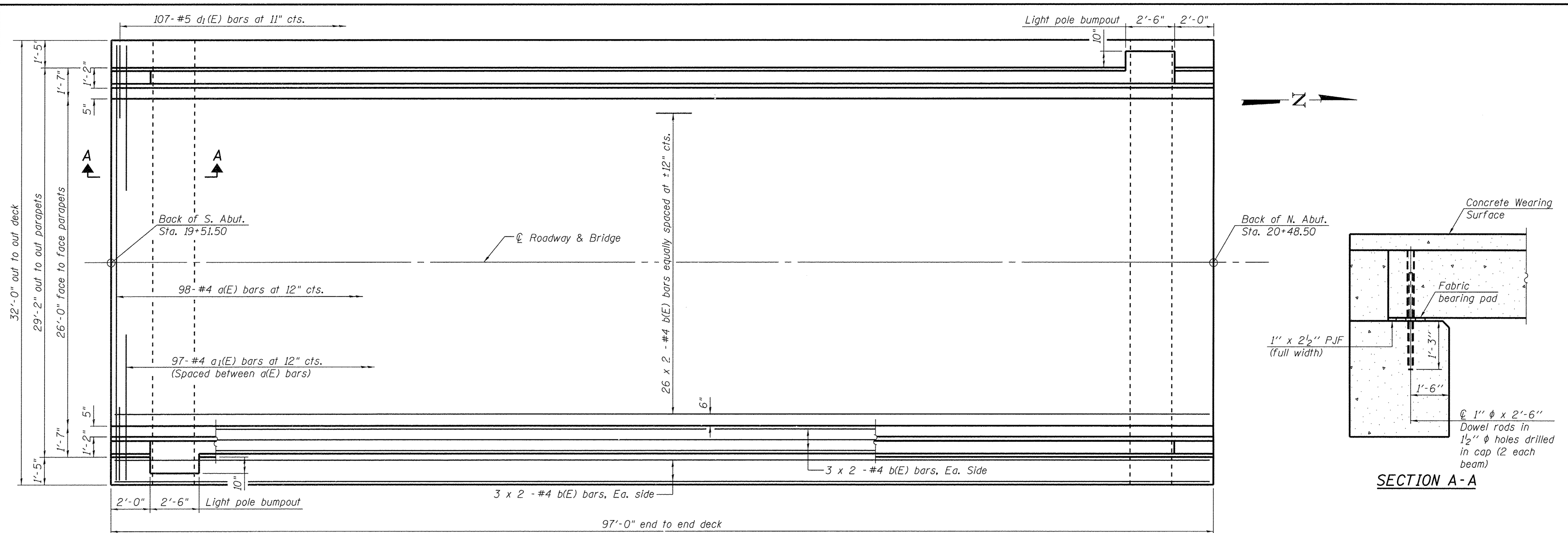
WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

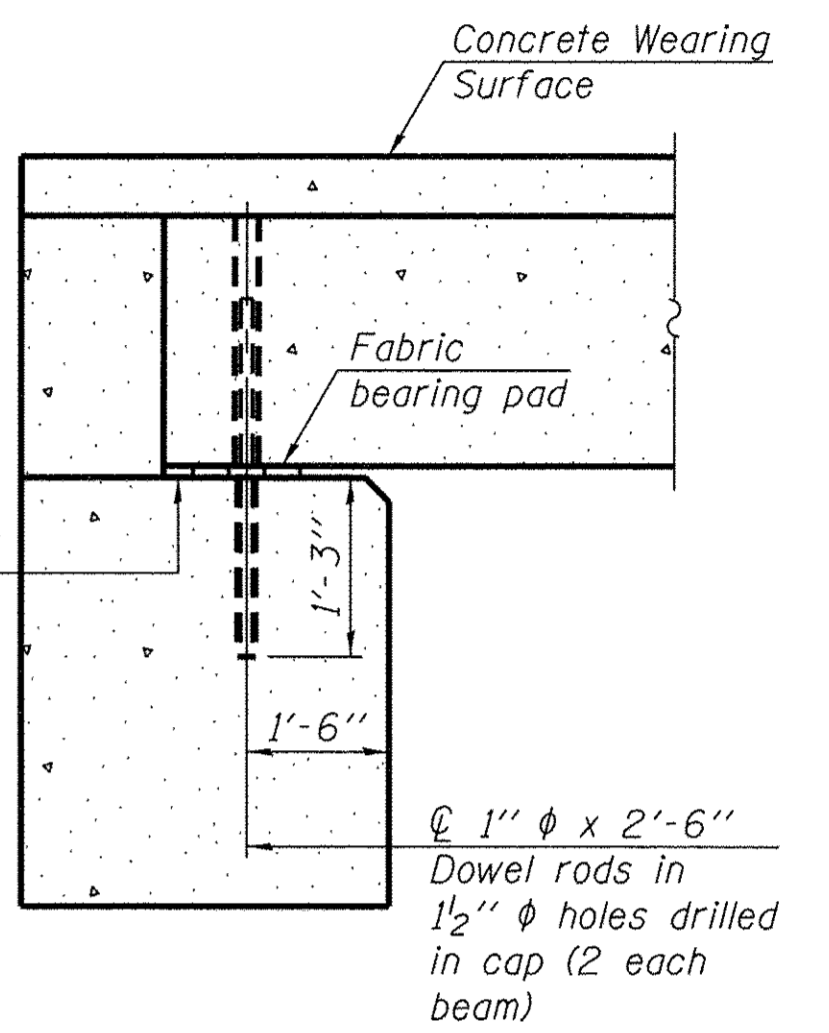
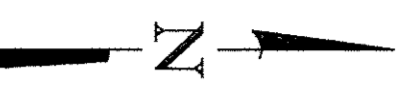
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

RIPRAP AND SHAFT LAYOUT
STRUCTURE NO. 008-6103
 STRUCTURAL SHEET NO. 2 OF 15 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	30
WHA* 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00150501				

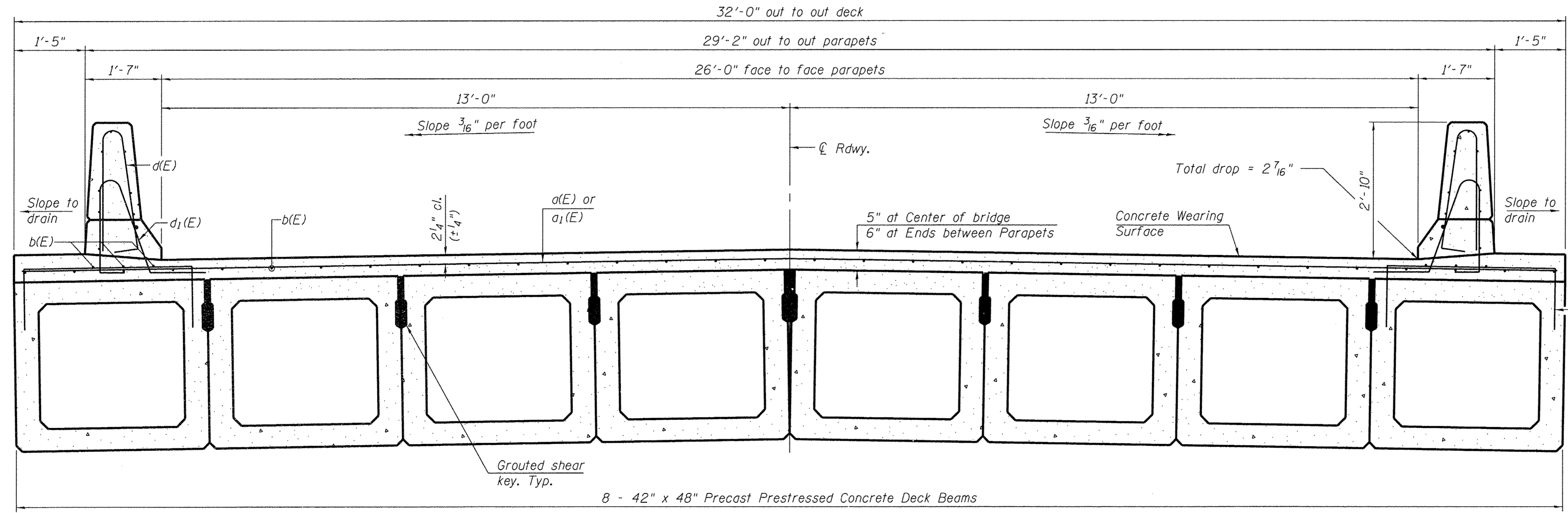


PLAN



SECTION A-A

MINIMUM BAR LAP
#4 bar = 2'-2"



CROSS SECTION
(Looking North)

6 1/2" at Center of bridge &
7 1/2" at Ends beyond Back
Face of Parapets only

- NOTES:**
- See Structural Sheet 4 of 15 for Superstructure Details and Bill of Material.
 - See Structural Sheet 4 of 15 for Lightpole bumpout Details.
 - Bars indicated thus 26 x 2-#4 etc. indicates 26 lines of bars with 2 lengths per line.
 - Concrete wearing surface shall be placed after casting the backwall.
 - See Structural Sheet 6 of 15 for fabric bearing pad details.

FILE = SA\PROJECTS\2818\1273010_Corr-011_County_Galena_St_BR_DESIGN\STRUCT\Drawings\Proposed_Structure\1273010_Superstructure_3.dgn

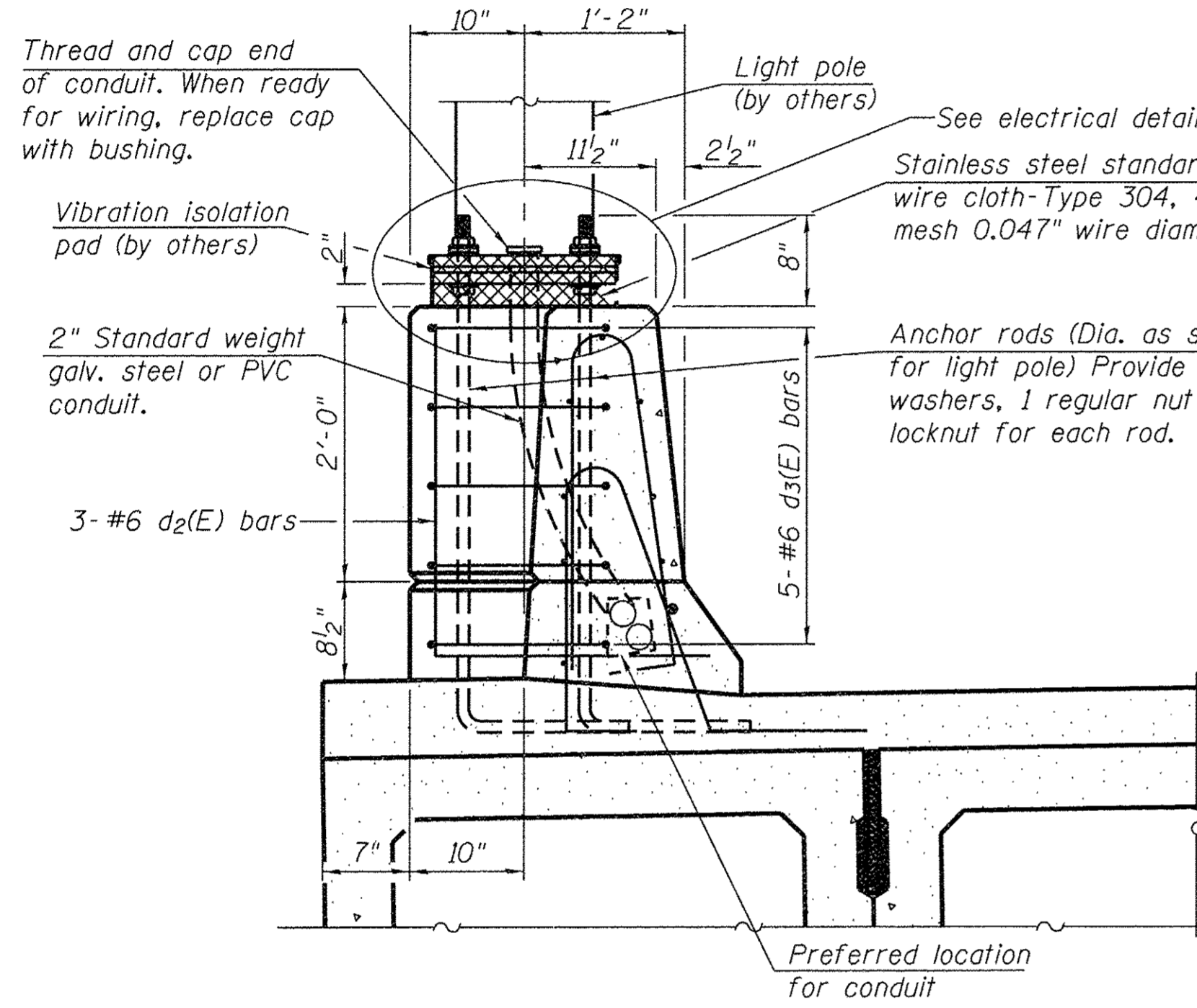
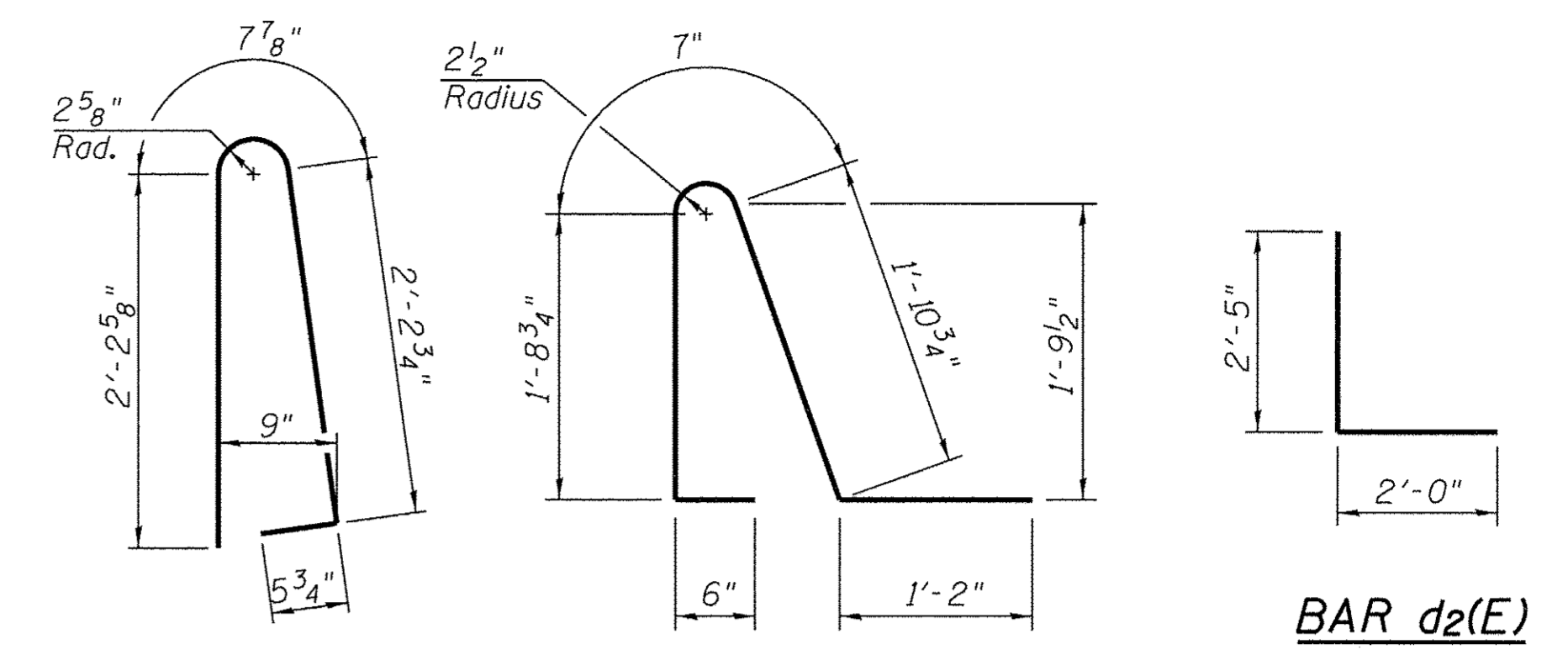
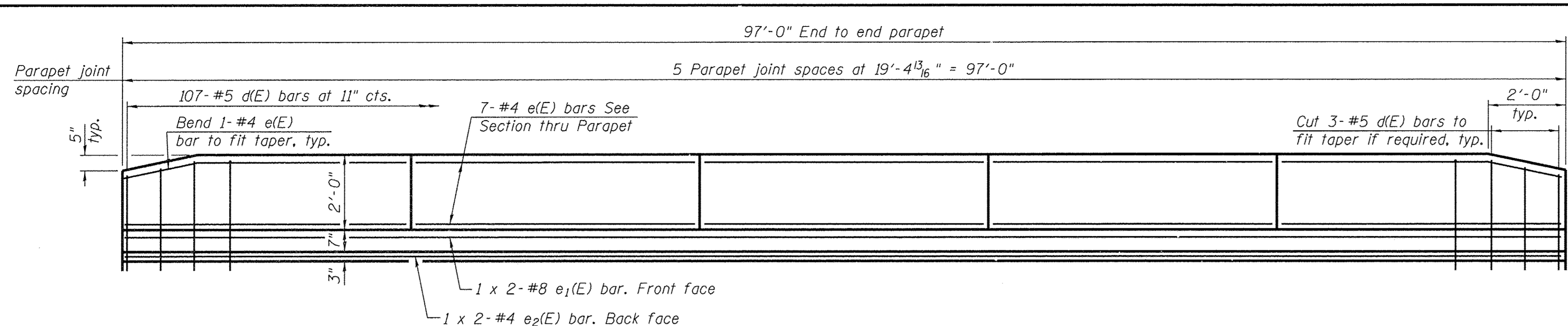
WILLET HOFMANN ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T. 815-284-3381 DESIGN FIRM: #184-000918

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

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

SUPERSTRUCTURE
STRUCTURE NO. 008-6103
STRUCTURAL SHEET NO. 3 OF 15 SHEETS

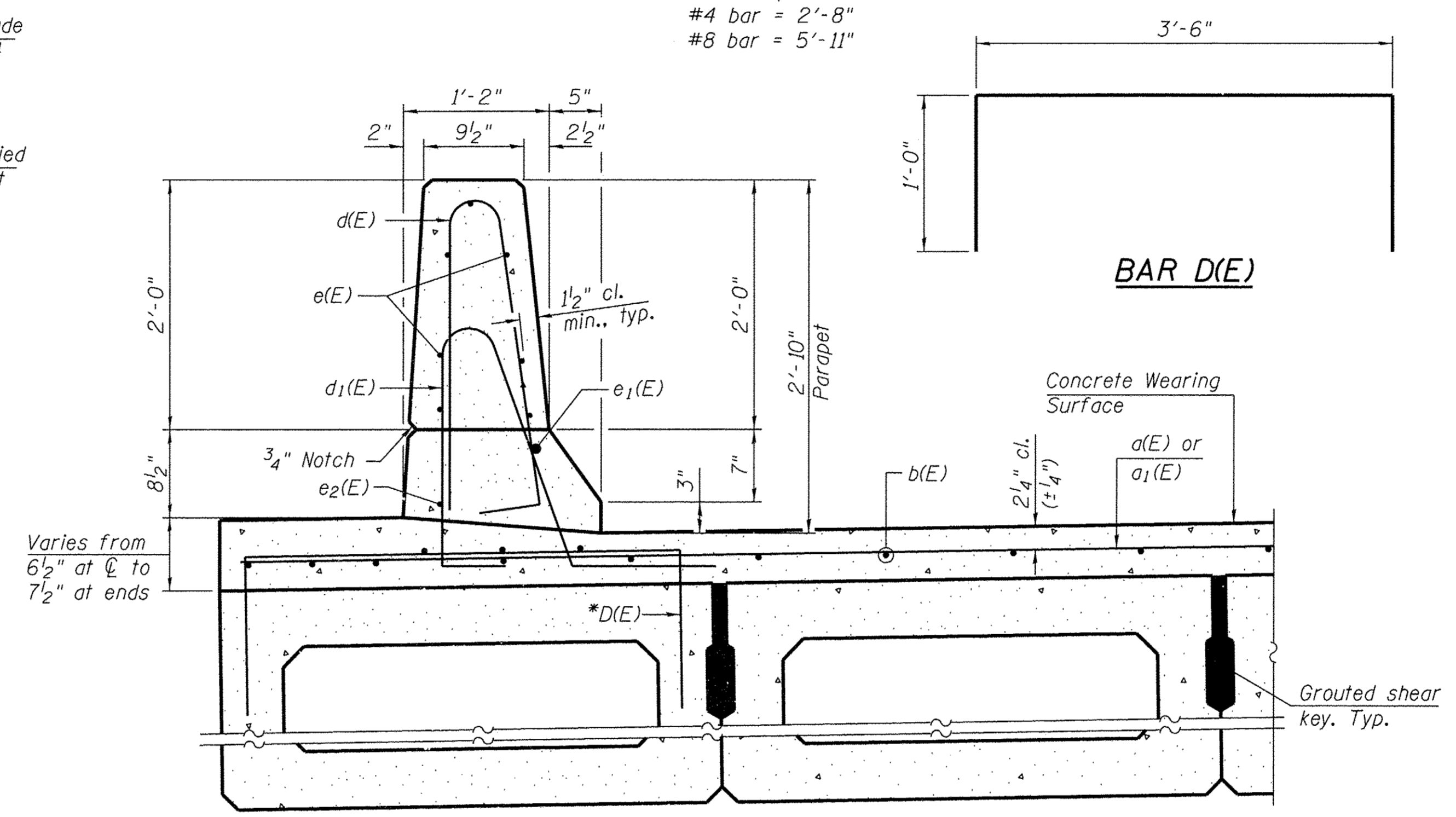
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	31
WHA# 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BR05-0015(050)				



INSIDE ELEVATION OF PARAPET

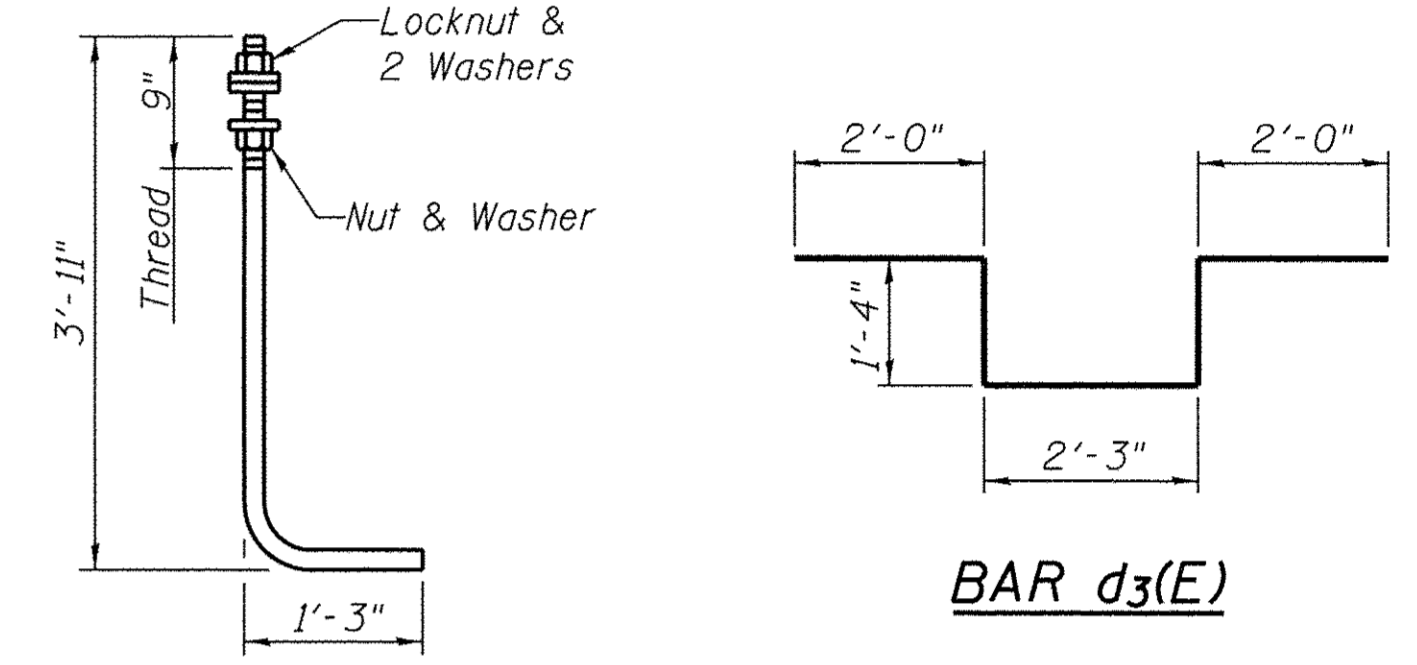
MINIMUM BAR LAP

(Parapet)
 #4 bar = 2'-8"
 #8 bar = 5'-11"



SECTION THRU PARAPET

*Place #4 D(E) bars at 9" cts. in fascia beam. D(E) bar included in cost of beam.

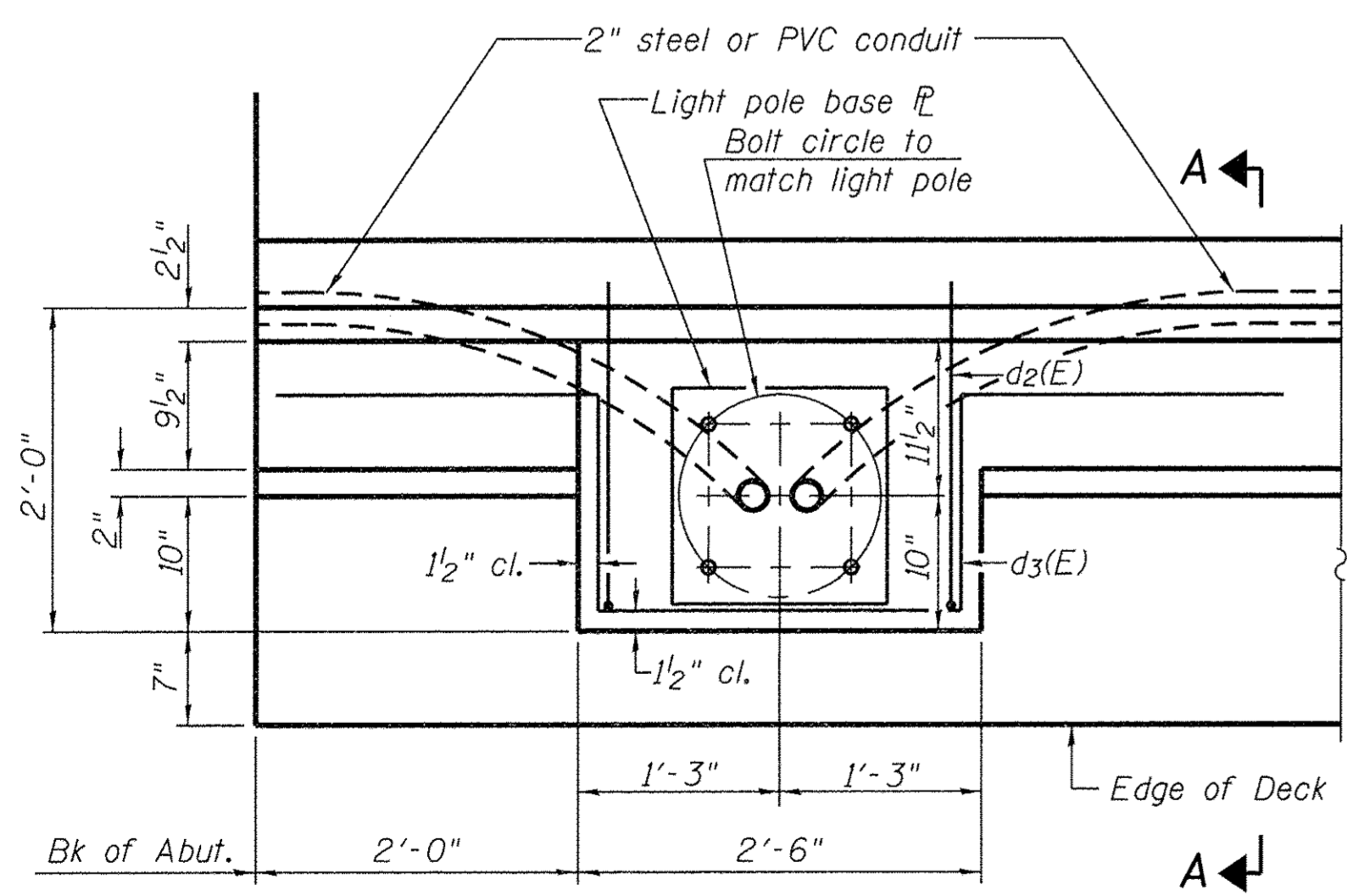


ANCHOR ROD
 Diameter as specified for light poles.
 (ASTM F 1554 Grade 105)

SUPERSTRUCTURE BILL OF MATERIAL

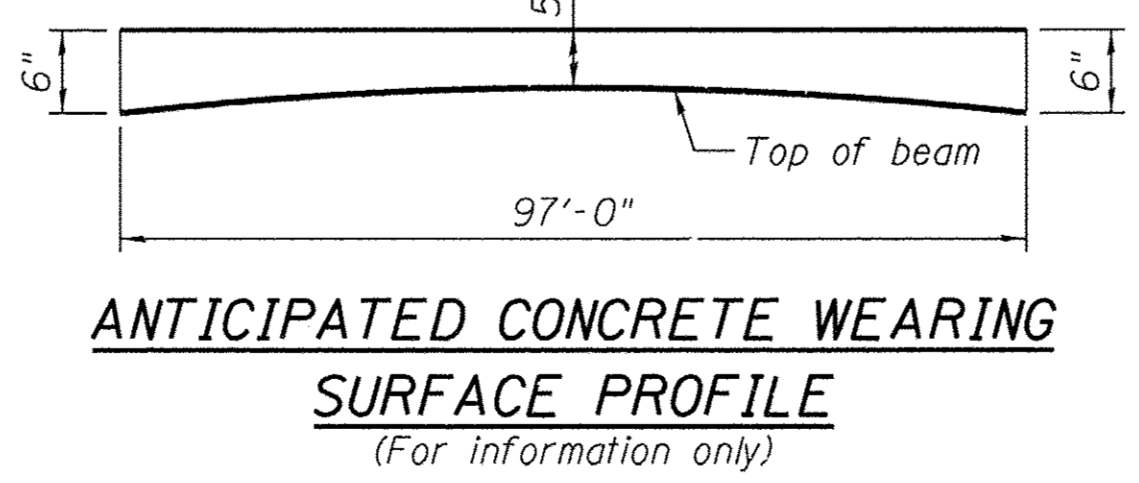
Bar	No.	Size	Length	Shape
d(E)	98	#4	31'-8"	—
a1(E)	97	#4	6'-0"	—
b(E)	76	#4	49'-5"	—
d(E)	214	#5	5'-7"	⌒
d1(E)	214	#5	5'-10 1/2"	⌒
d2(E)	10	#6	4'-5"	⌒
d3(E)	6	#6	8'-11"	⌒
e(E)	70	#4	19'-1"	—
e1(E)	4	#8	51'-4"	—
e2(E)	4	#4	49'-8"	—
Reinforcement Bars, Epoxy Coated			Pound	9,250
Concrete Superstructure			Cu. Yd.	22.1
Concrete Wearing Surface, 5"			Sq. Yd.	345
Bridge Deck Grooving			Sq. Yd.	259
Protective Coat			Sq. Yd.	361

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

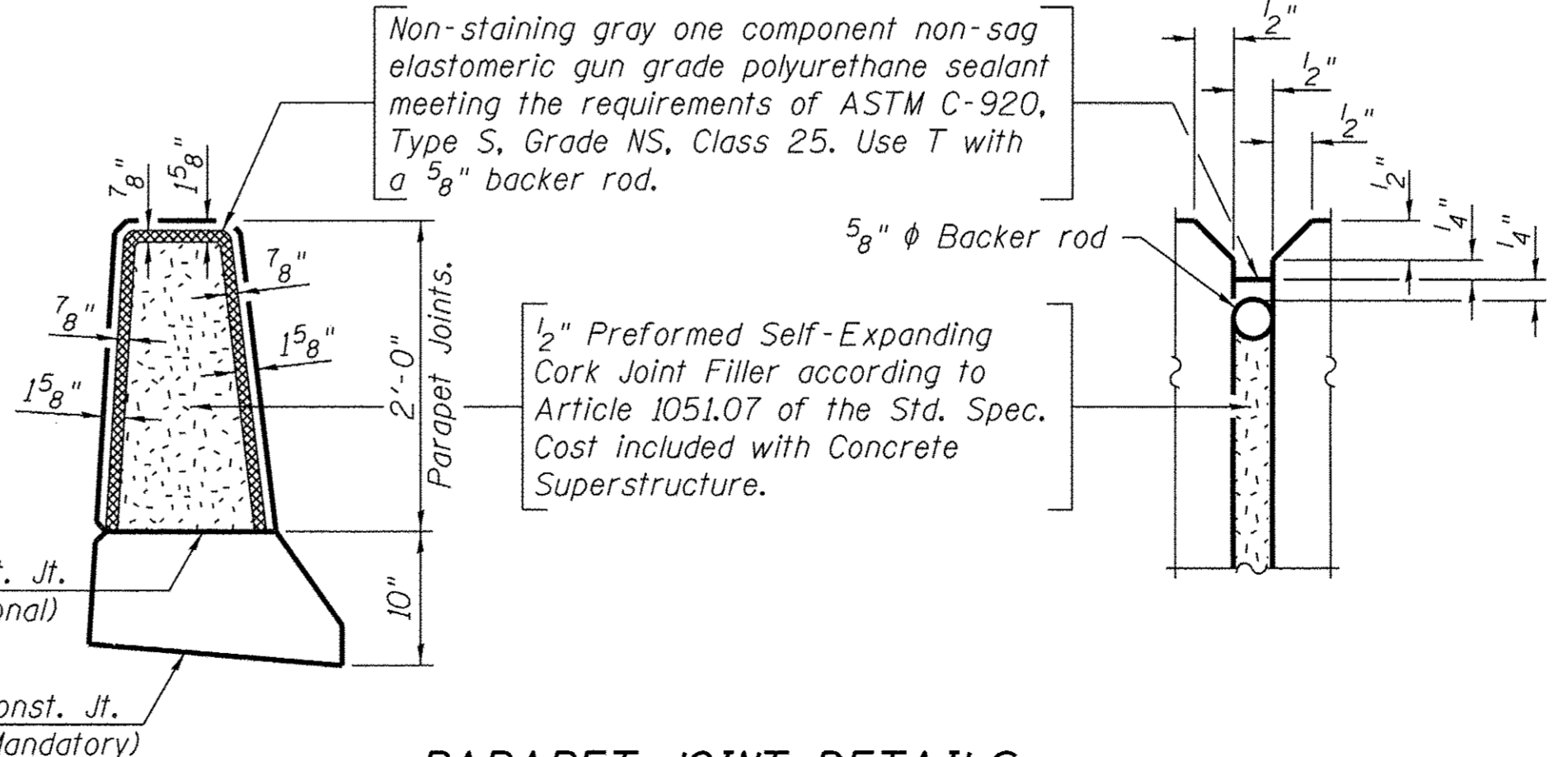


PLAN

Note:
 Cost of anchor rods and conduit is included with Concrete Superstructure.



ANTICIPATED CONCRETE WEARING SURFACE PROFILE
 (For information only)



PARAPET JOINT DETAILS



DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

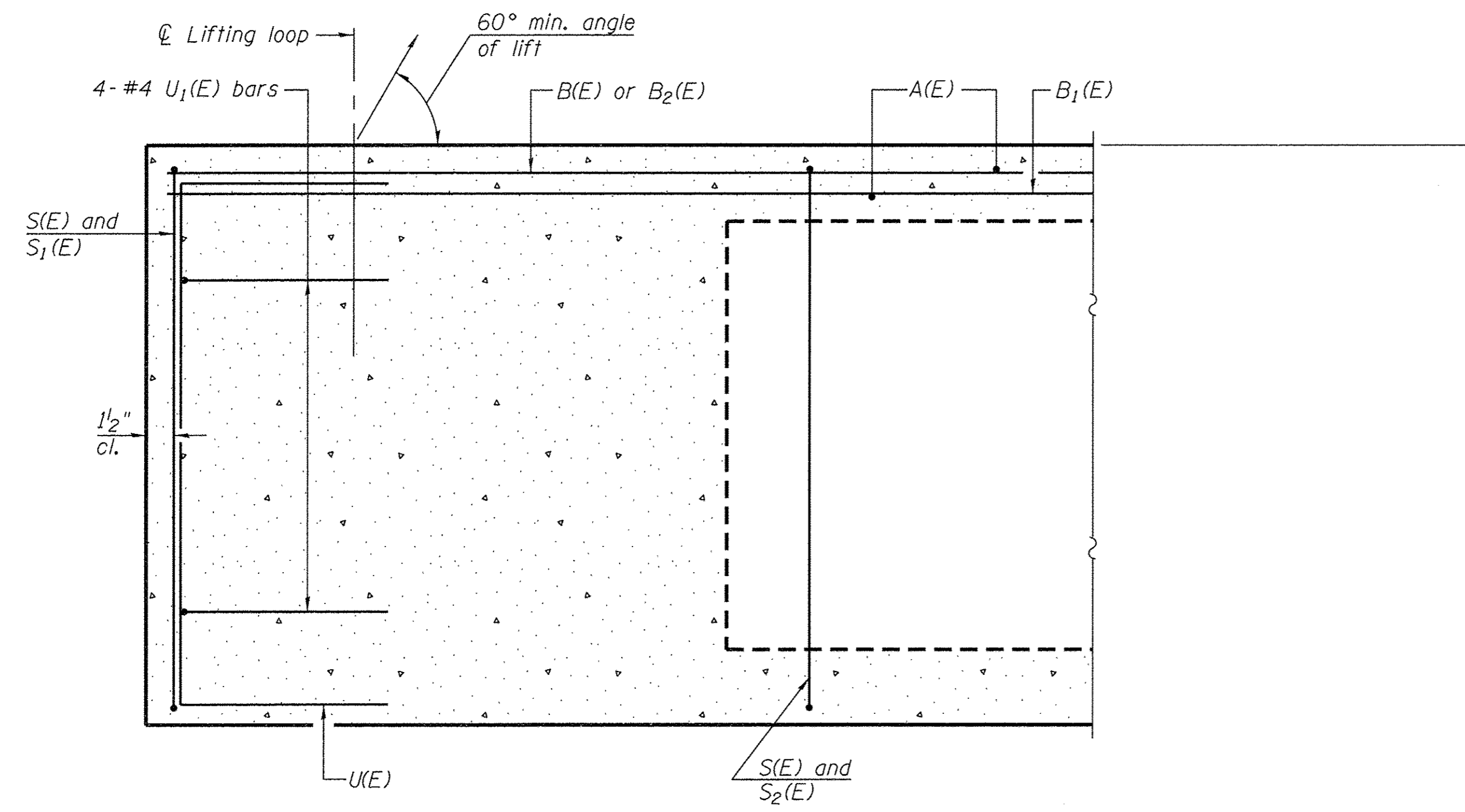
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 008-6103

STRUCTURAL SHEET NO. 4 OF 15 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	32
WHA# 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501				

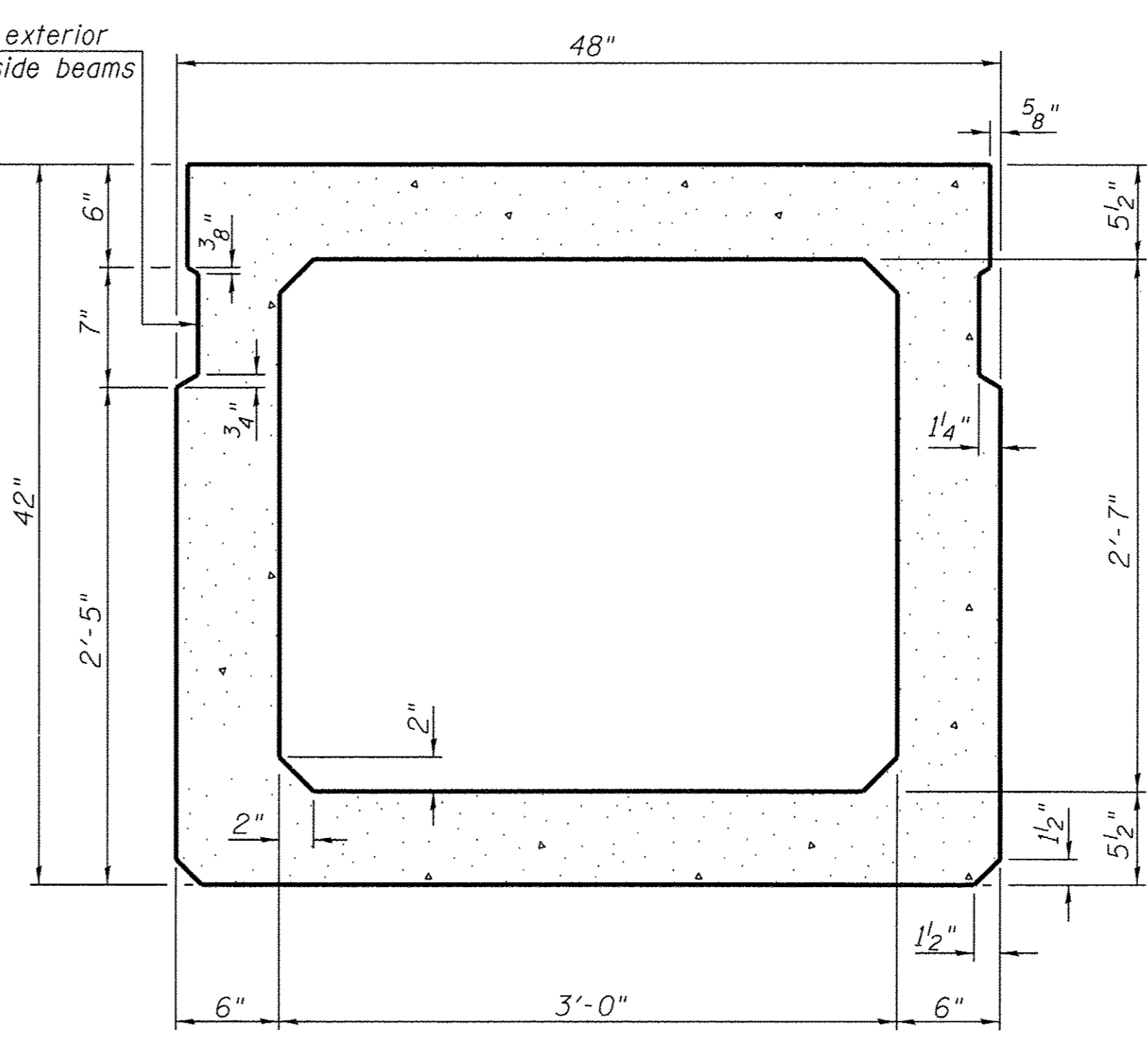
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FILE: S:\PROJECTS\2018\1273010_Carroll County, Galena, St. BR DESIGN\STRUCT\Drawings\Proposed Structure\1273010_42 in x 48 in Deck Beam Sheet 5.dgn

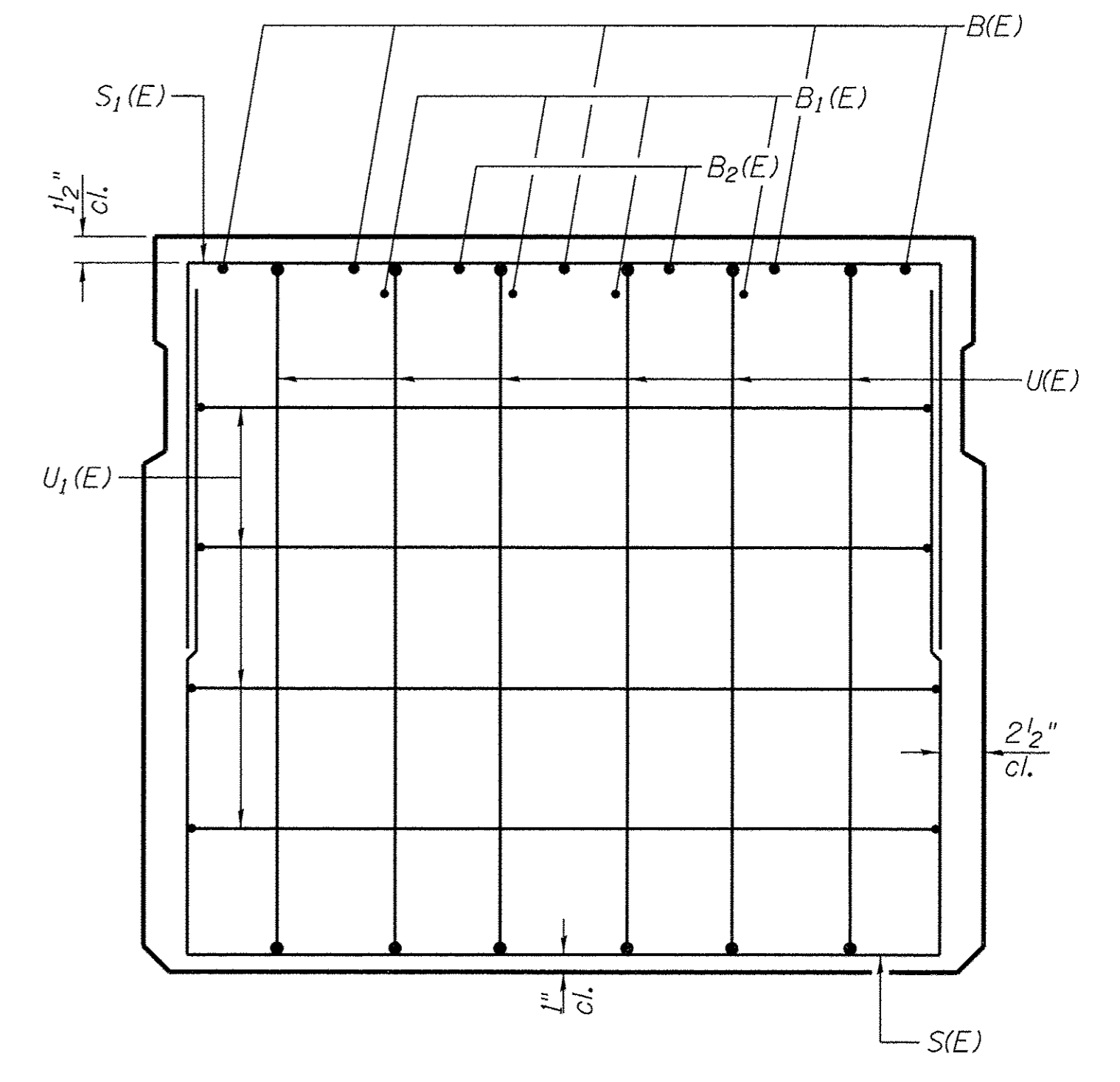


SECTION A-A

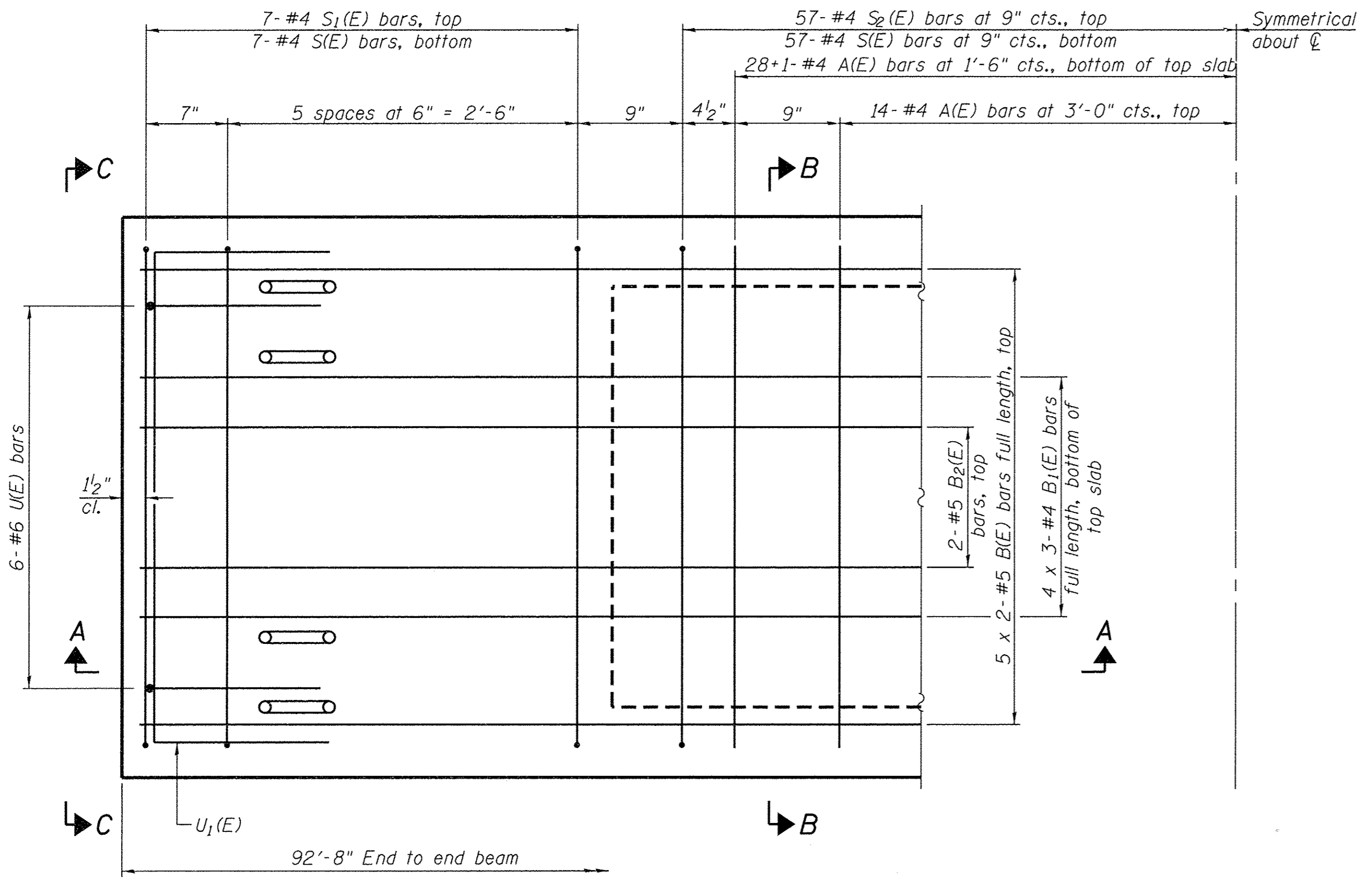
Omit key on exterior face of outside beams



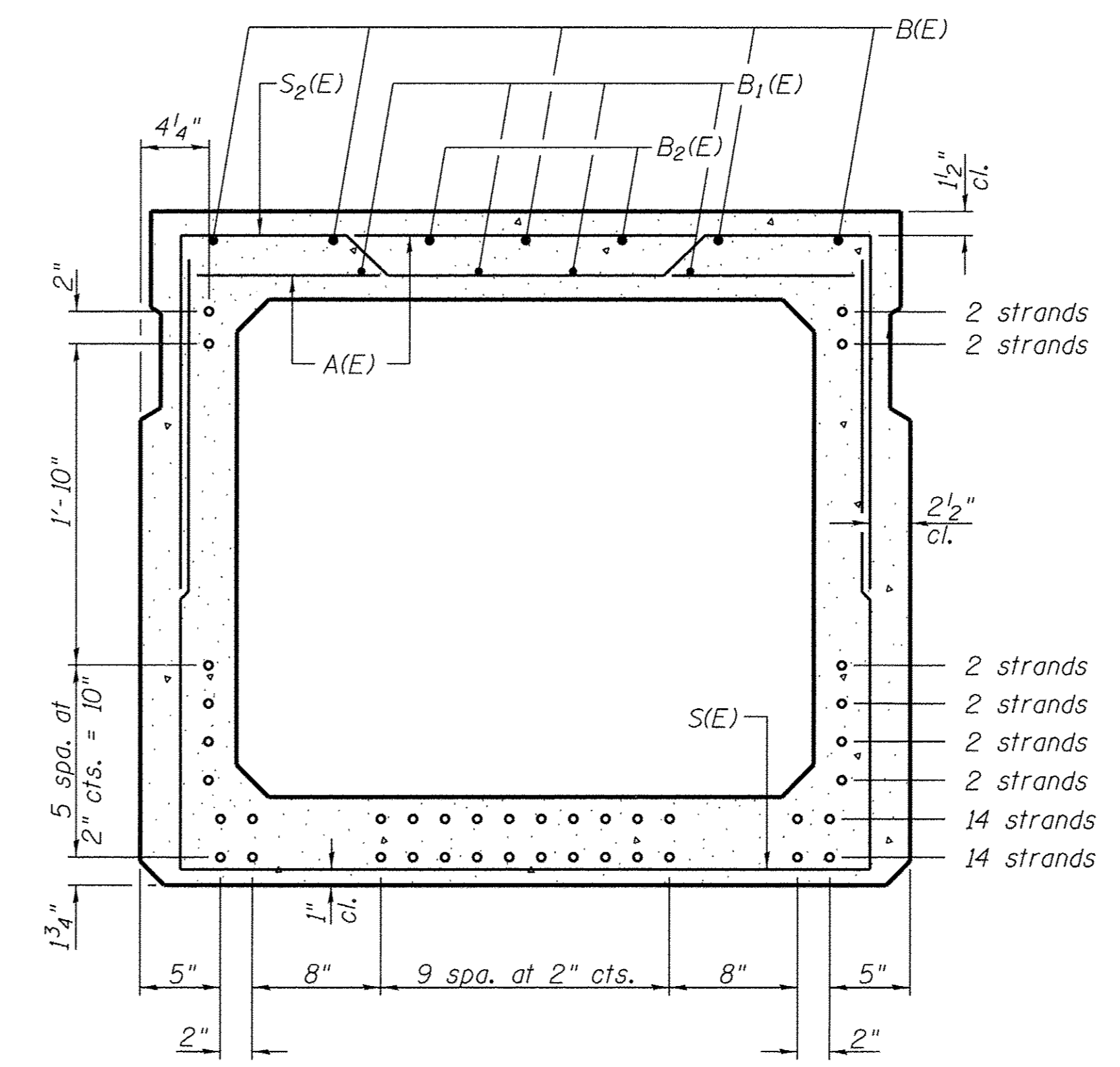
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B

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

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	85	#4	3'-7"	—
B(E)	10	#5	47'-5"	—
B1(E)	12	#4	32'-1"	—
B2(E)	4	#5	10'-0"	—
S(E)	128	#4	10'-2"	—
S1(E)	14	#4	7'-5"	┌┐
S2(E)	114	#4	7'-8"	┌┐
U(E)	12	#6	5'-9"	┌┐
U1(E)	8	#4	6'-0"	┌┐

NOTES:

See Structural Sheet 6 of 15 for additional details and Bill of Material.
Bars indicated thus 4 x 3-#4 etc. indicates 4 line of bars with 3 lengths per line.
Bars indicated thus 28+1 -#4 etc. indicates 28 bars each side of $\bar{\bar{c}}$ plus 1 additional bar at $\bar{\bar{c}}$.
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

MINIMUM BAR LAP

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



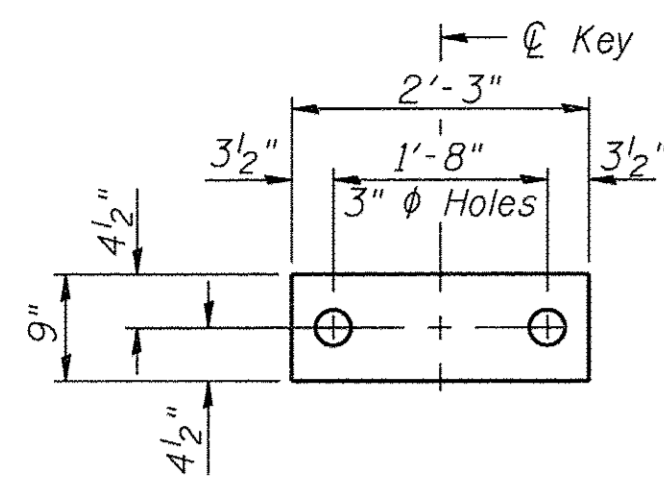
DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 +00

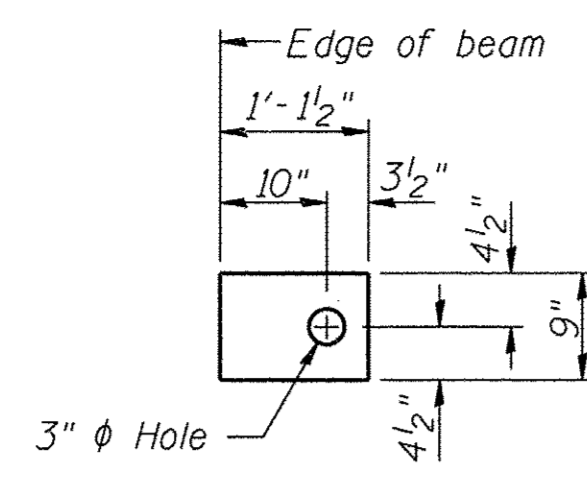
42" x 48" PPC DECK BEAM
STRUCTURE NO. 008-6103

STRUCTURAL SHEET NO. 5 OF 15 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	33
WHA # 1273010		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00150501				



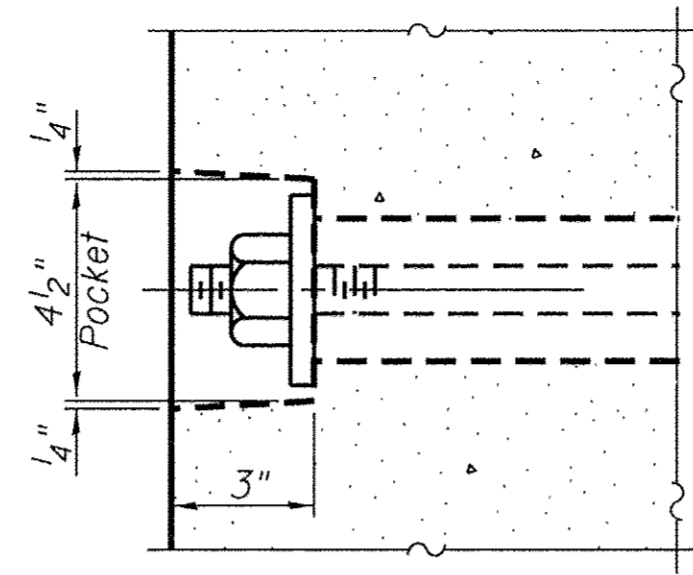
FABRIC BEARING PAD
(Interior)



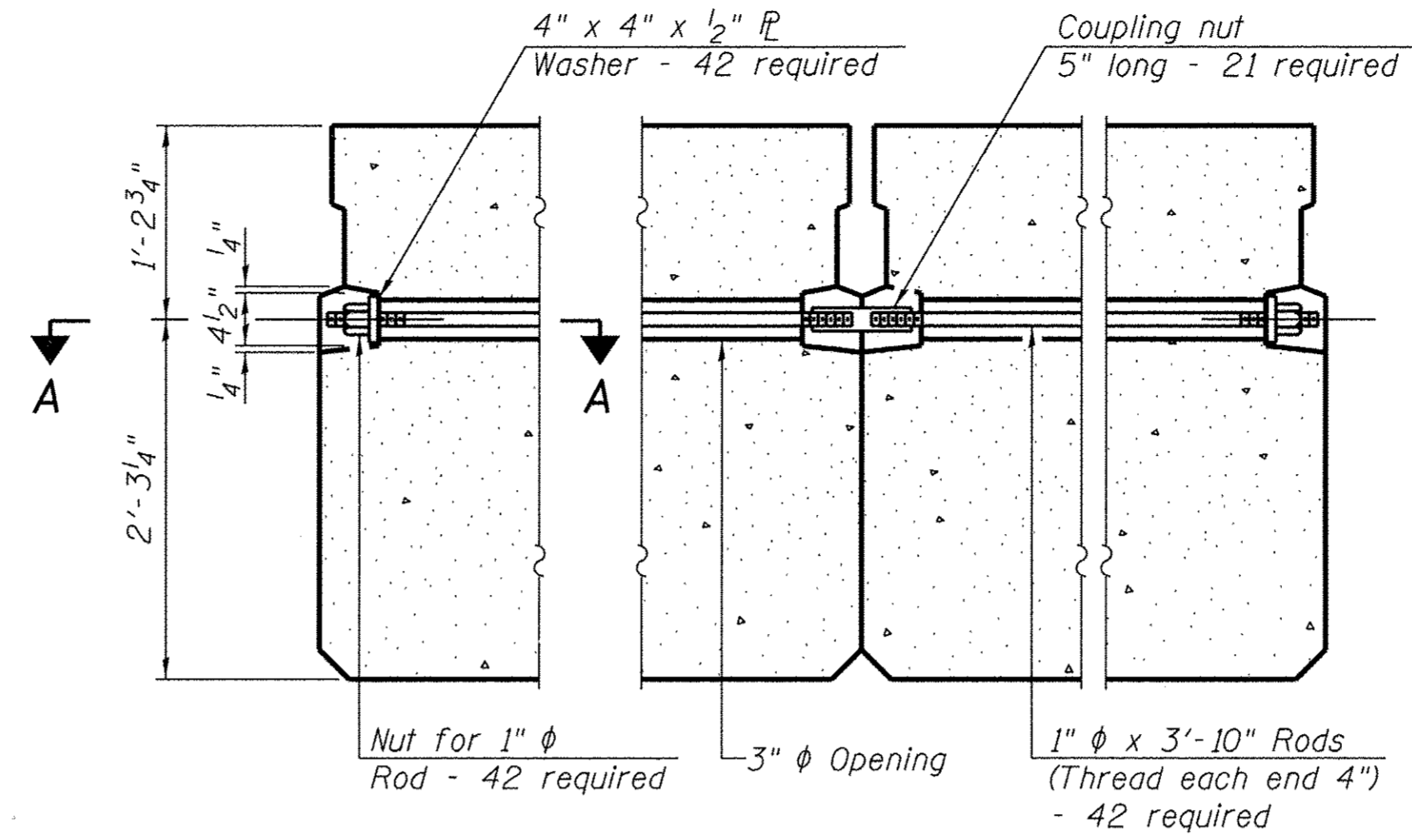
FABRIC BEARING PAD
(Exterior)

FIXED

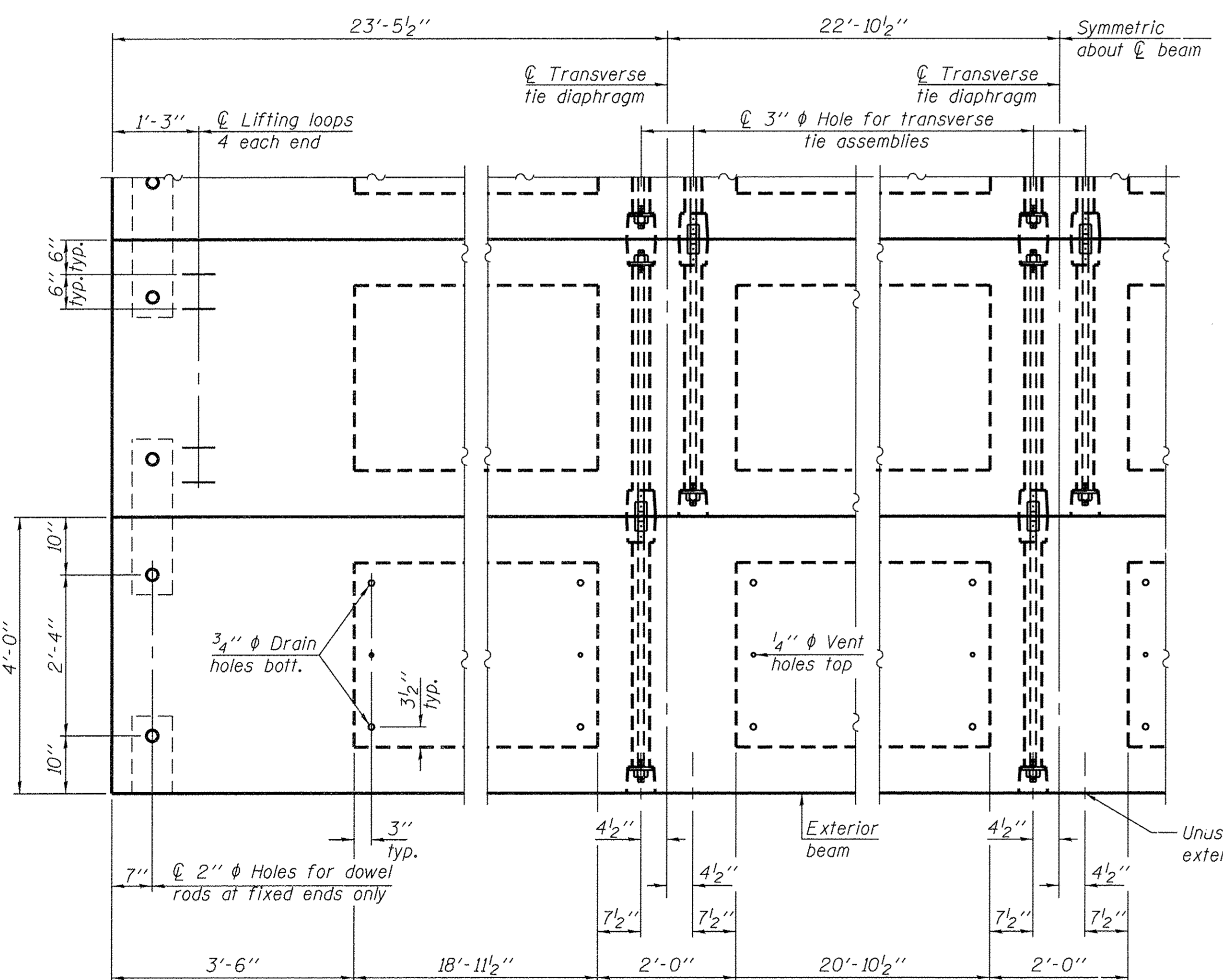
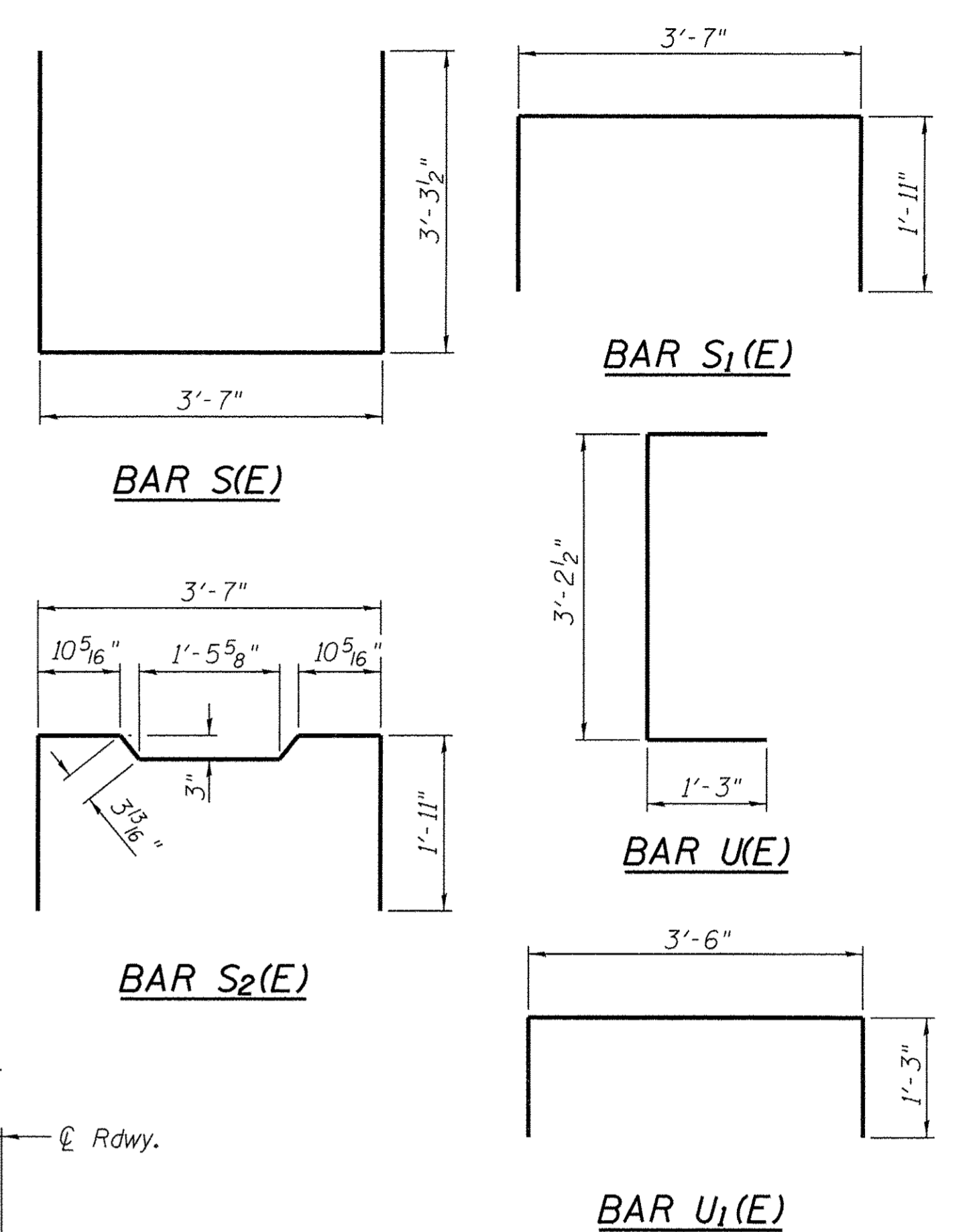
Notes:
All bearing pads shall be 1" thick.
Exterior bearing pad shall be used
at crown break.



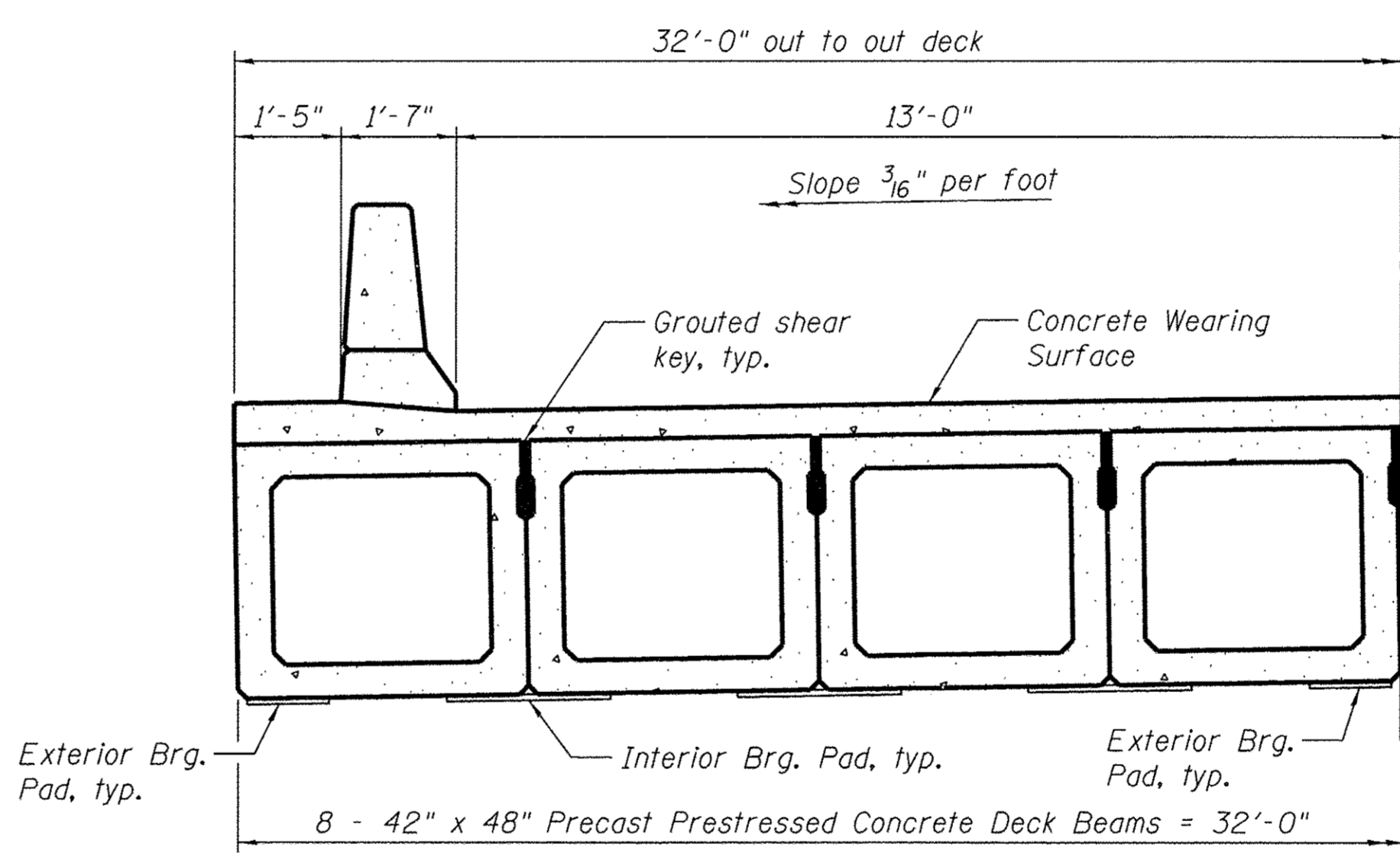
SECTION A-A



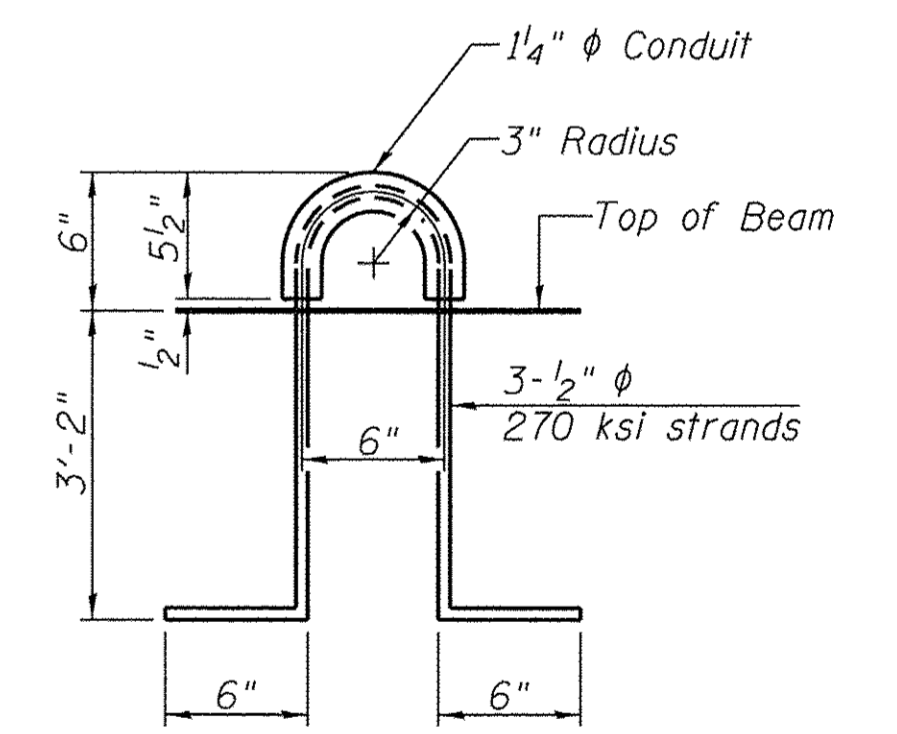
TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW



HALF CROSS SECTION



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Two 5/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" 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.
See Structural Sheet 4 of 15 for D(E) bars located in exterior beams.

BILL OF MATERIAL

Item	Unit	Quantity
Precast Prestressed Concrete Deck Beams (42" Depth)	Sq. Ft.	2,965

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

FILE: S:\PROJECTS\2018\1272018_Carroll County, Galena, St. BR DESIGN\STRUCT\Drawings\Proposed Structure\1272018_42 in x 48 in Deck Beam Details Sheet.dgn

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

DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

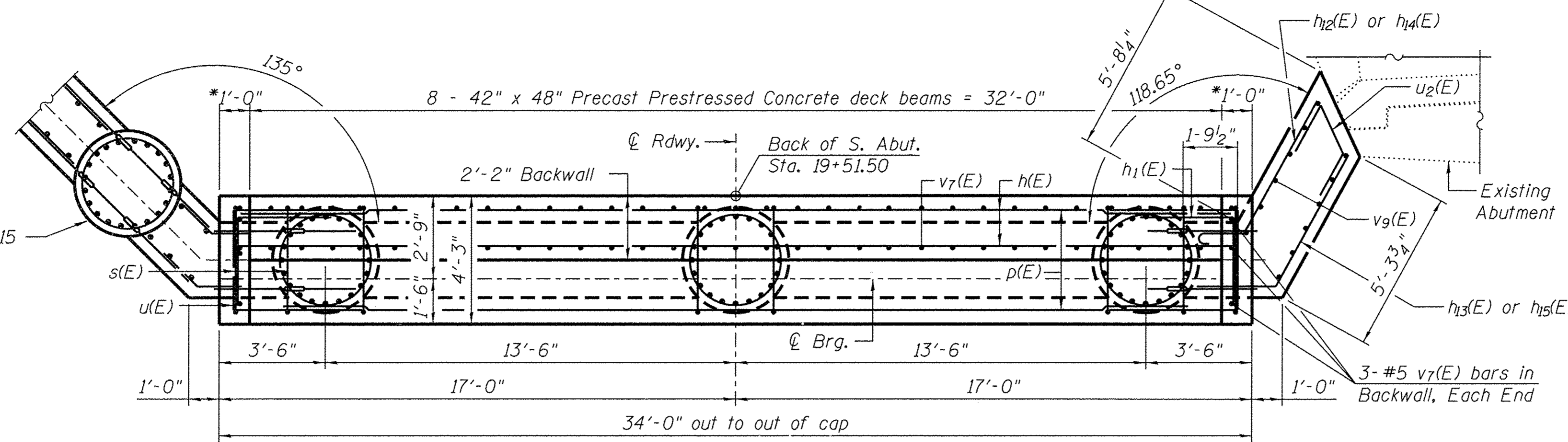
42" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 008-6103
STRUCTURAL SHEET NO. 6 OF 15 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	34
WHA# 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-0015050				

*May vary due to overrun of beams.

See Structural Sheet 8 of 15 for S.E. Wingwall layout

Limestone form liner on front of concrete webwalls, exposed cap and backwall regions.



PLAN



NOTE:

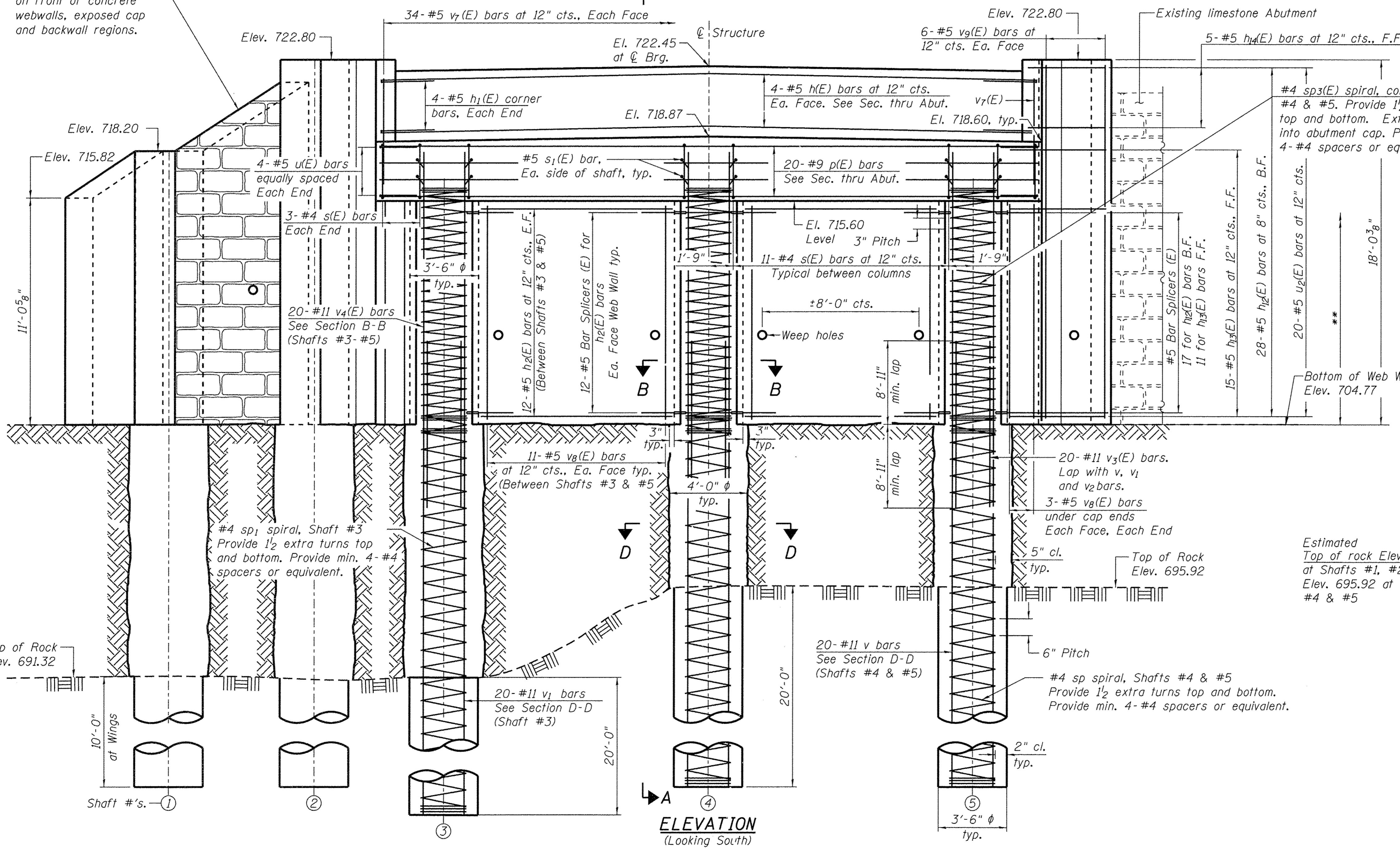
See Structural Sheet 8 of 15 for Sections B-B & Section D-D

B.F. - Back Face

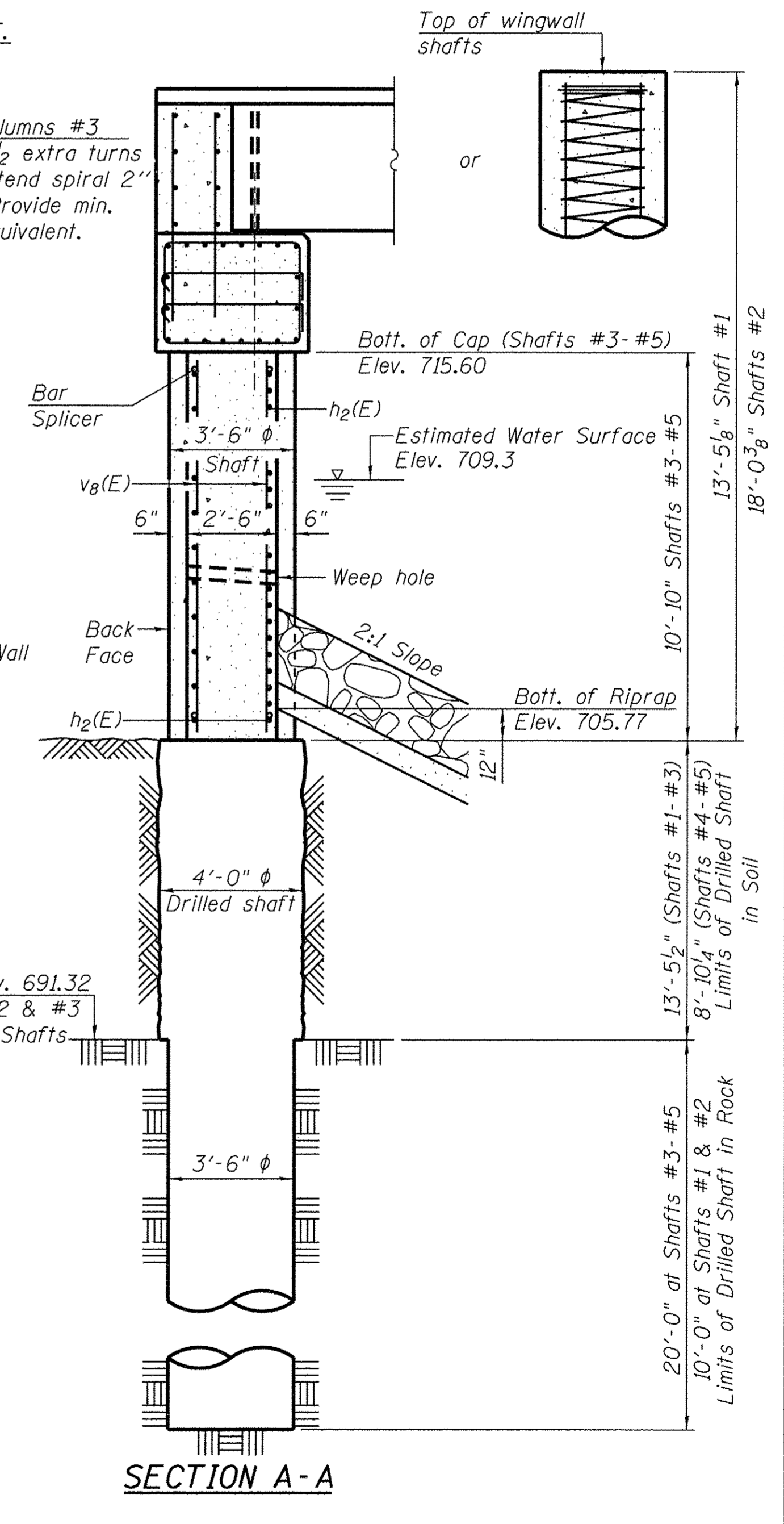
F.F. - Front Face

E.F. - Each Face

**Above this point, all reinforcement and concrete placement shall be completed in the dry. If necessary, Dewatering shall be included in the cost of "Concrete Structures".



ELEVATION (Looking South)



SECTION A-A

FILE: S:\PROJECTS\2018\1273018_Carroll County, Indiana S.E. BRIDGE\STRUCT\Drawings\Proposed Structure\1273018_South Abutment_7-B.dgn

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

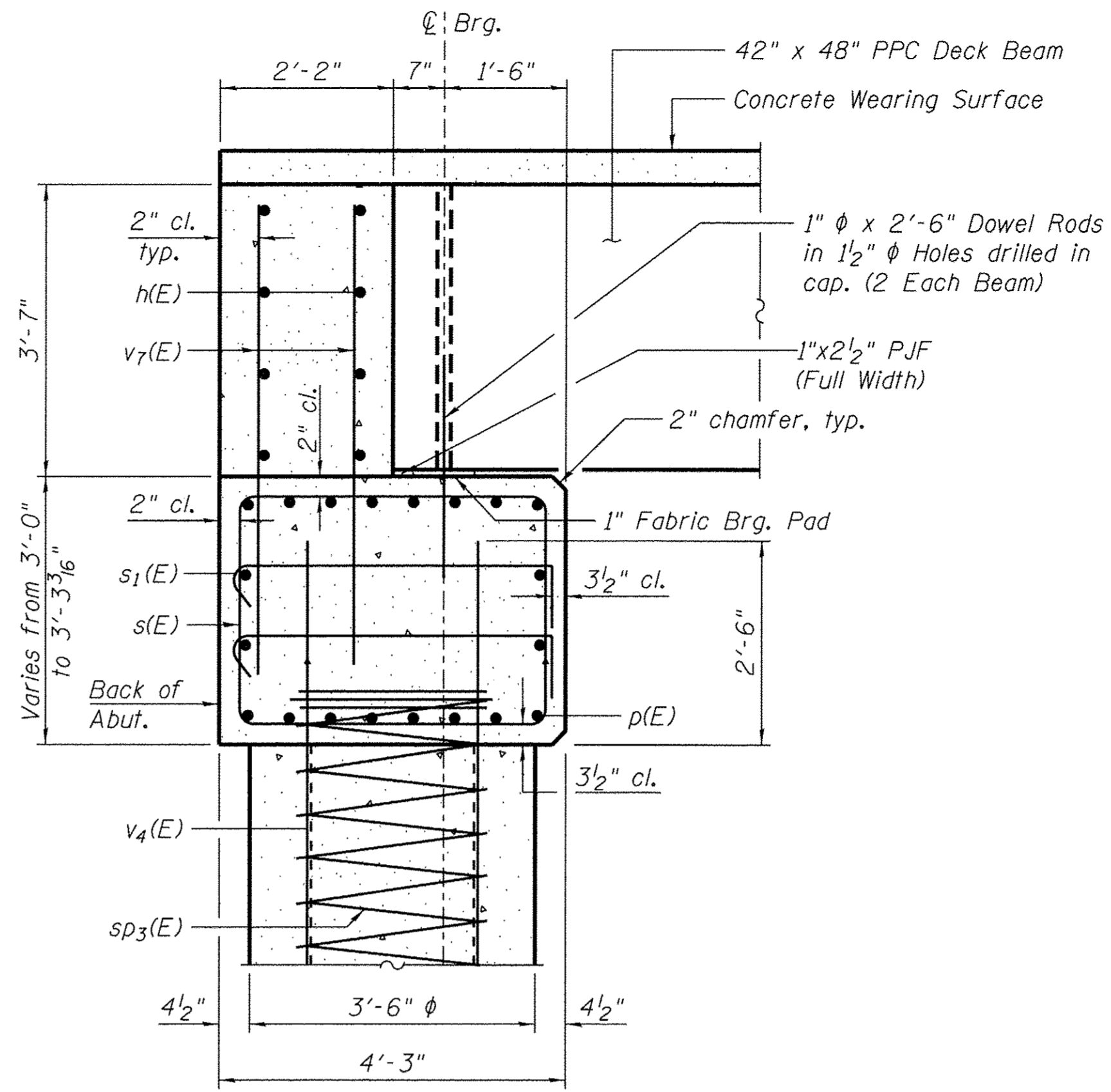
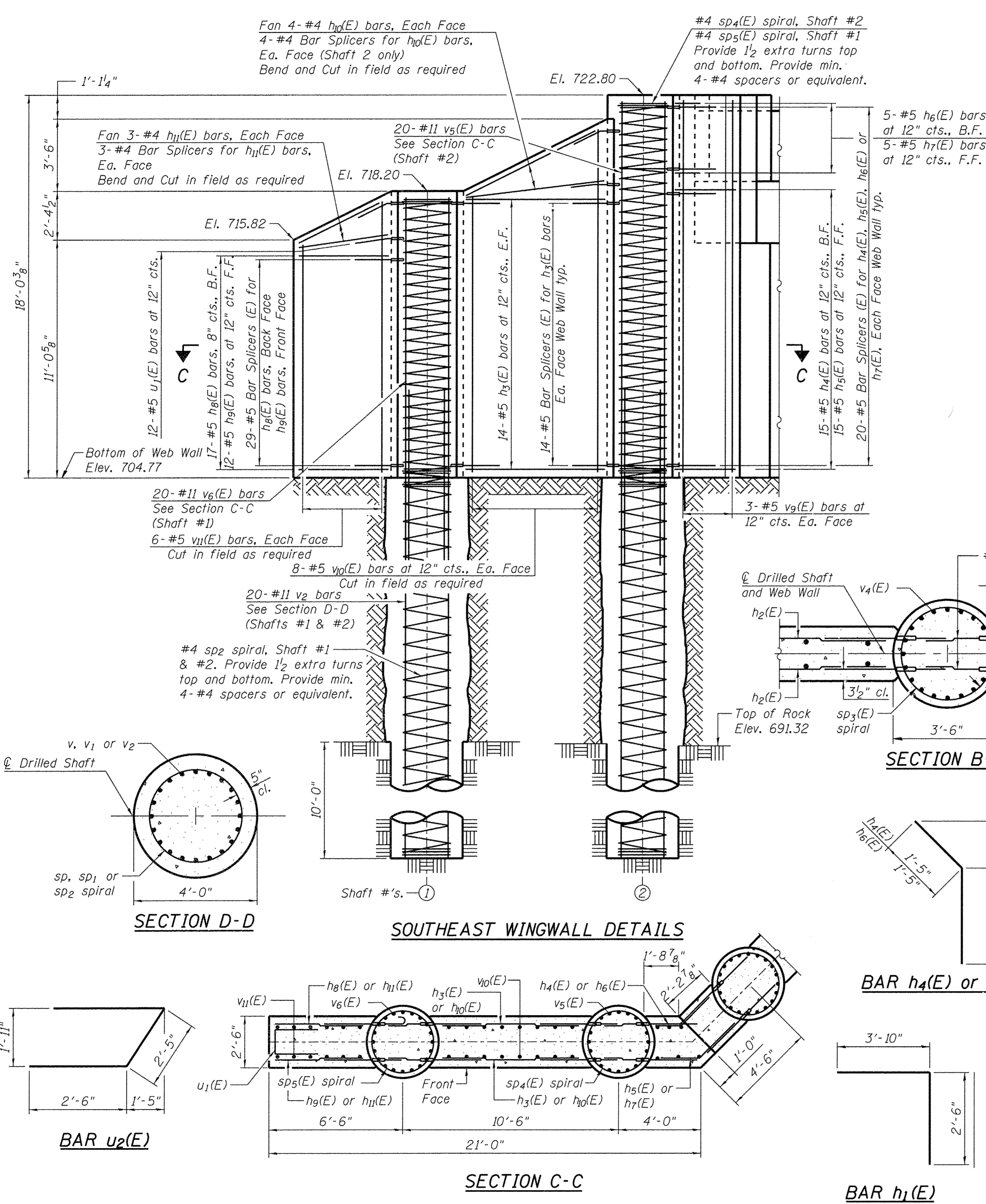
DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 008-6103
STRUCTURAL SHEET NO. 7 OF 15 SHEETS

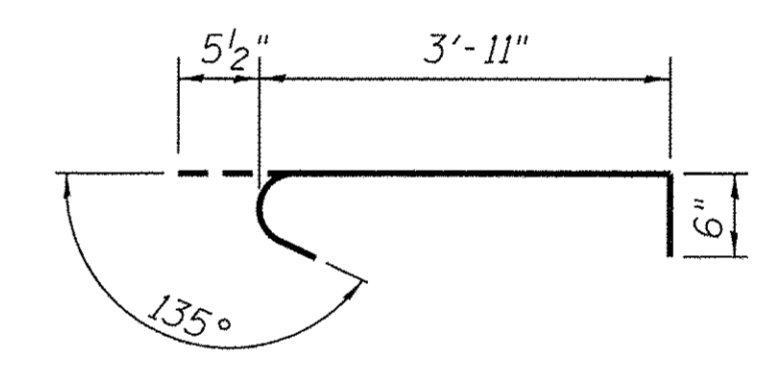
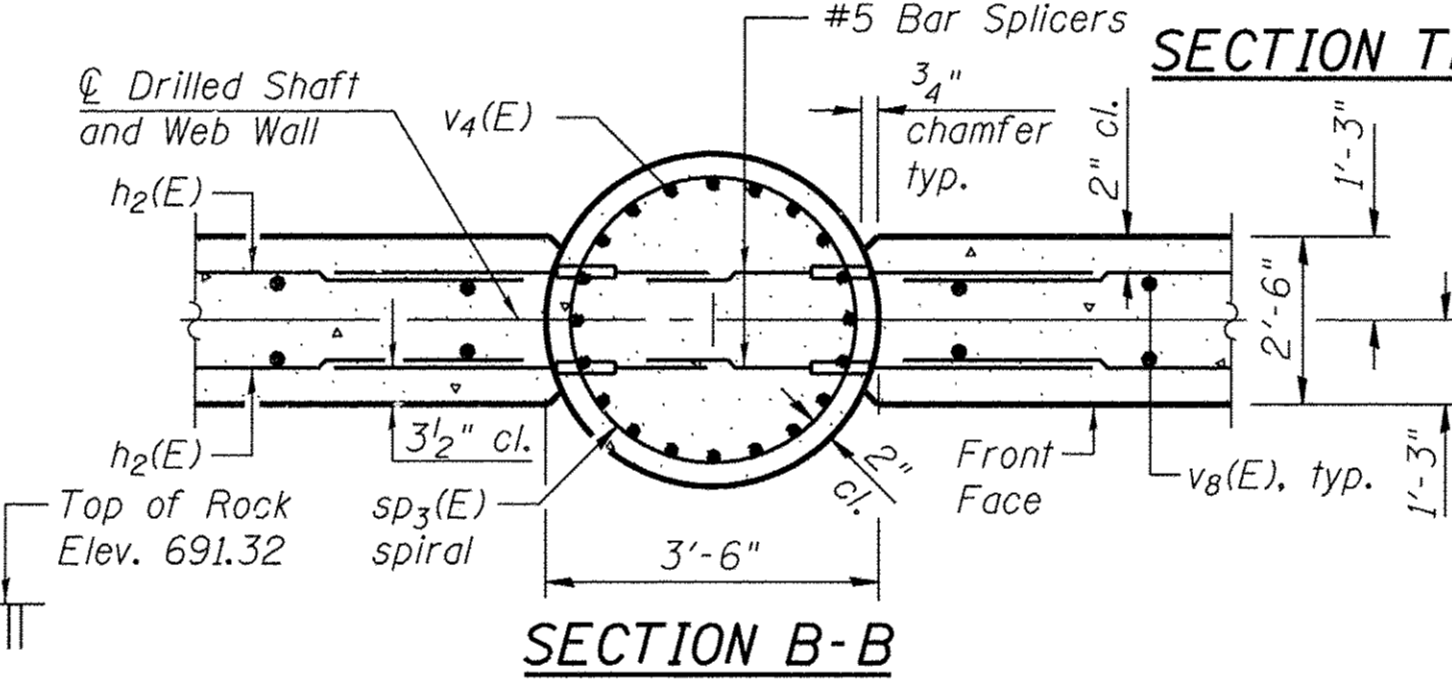
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	35
WHA# 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150150				

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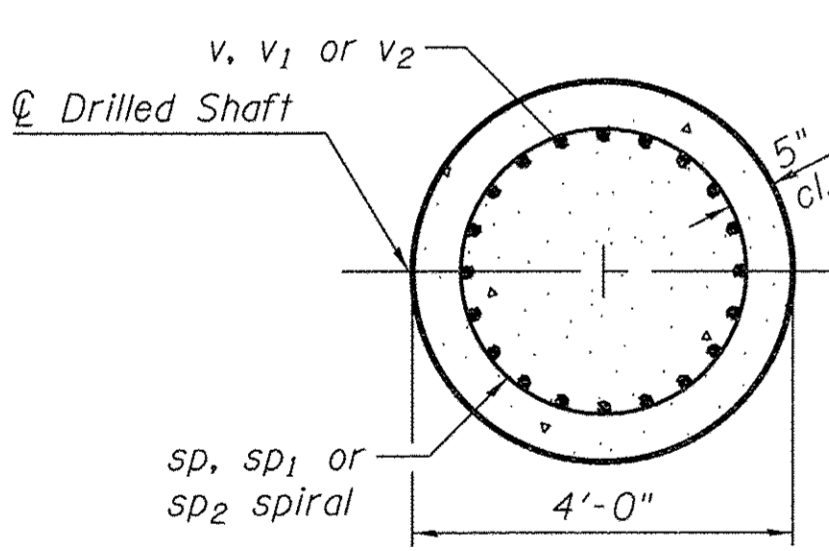


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	8	#5	33'-8"	—
h1(E)	8	#5	6'-4"	└
h2(E)	48	#5	10'-1"	—
h3(E)	14	#5	7'-2"	—
h4(E)	15	#5	3'-4"	—
h5(E)	15	#5	4'-10"	—
h6(E)	5	#5	2'-3"	—
h7(E)	5	#5	3'-10"	—
h8(E)	17	#5	4'-9"	—
h9(E)	12	#5	4'-8"	—
h10(E)	8	#4	7'-10"	—
h11(E)	6	#4	5'-4"	—
h12(E)	28	#5	7'-4"	—
h13(E)	15	#5	7'-9"	—
h14(E)	5	#5	6'-8"	—
p(E)	20	#9	33'-8"	—
s(E)	28	#4	13'-11"	□
s1(E)	12	#5	4'-11"	└
sp	2	#4	28'-10"	⋈
sp1	1	#4	33'-5"	⋈
sp2	2	#4	23'-5"	⋈
sp3(E)	3	#4	11'-0"	⋈
sp4(E)	1	#4	17'-10"	⋈
sp5(E)	1	#4	13'-3"	⋈
u(E)	8	#5	8'-10"	└
u1(E)	12	#5	6'-11"	└
u2(E)	20	#5	7'-5"	└
v	40	#11	28'-11"	—
v1	20	#11	33'-5"	—
v2	40	#11	23'-5"	—
v3(E)	100	#11	17'-10"	—
v4(E)	60	#11	13'-4"	—
v5(E)	20	#11	17'-10"	—
v6(E)	20	#11	13'-3"	—
v7(E)	74	#5	5'-6"	—
v8(E)	56	#5	10'-6"	—
v9(E)	18	#5	17'-8"	—
v10(E)	16	#5	16'-6"	—
v11(E)	12	#5	13'-1"	—
Structure Excavation		Cu. Yd.	71	
Concrete Structures		Cu. Yd.	104.0	
Reinforcement Bars		Pound	16,630	
Reinforcement Bars, Epoxy Coated		Pound	24,700	
Bar Splicers		Each	287	
Drilled Shaft in Soil		Cu. Yd.	27.0	
Drilled Shaft in Rock		Cu. Yd.	28.5	
Pipe Underdrains for Structures 4"		Foot	61	
Granular Backfill for Structures		Cu. Yd.	77	
Geocomposite Wall Drain		Sq. Yd.	52	

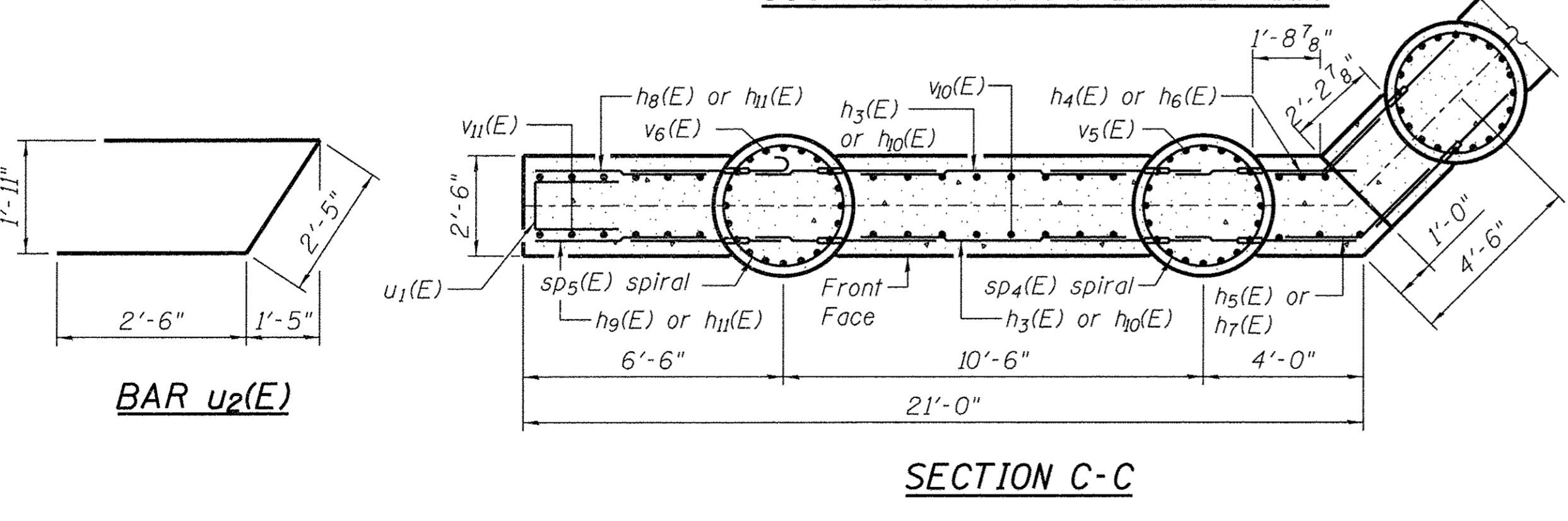


BAR s1(E)

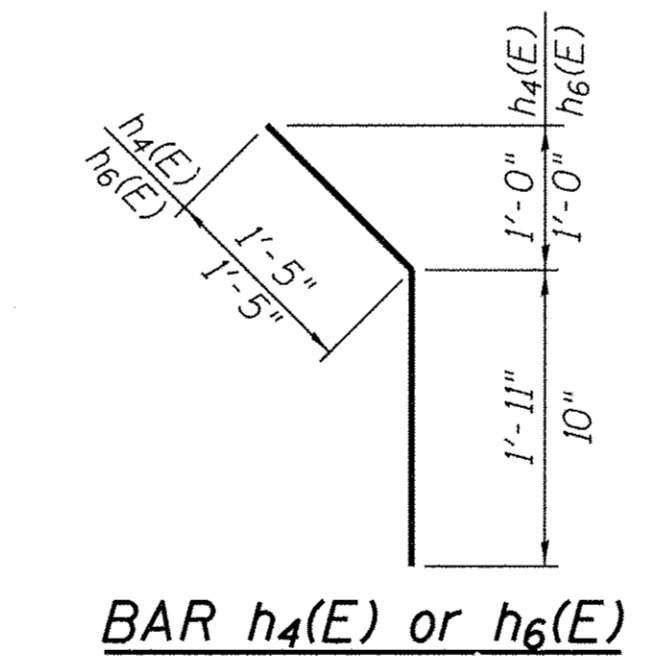


SECTION D-D

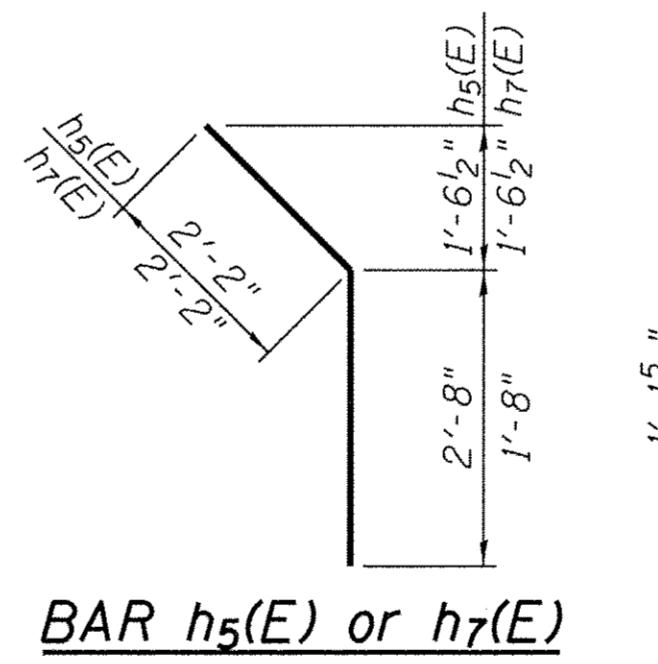
SOUTHEAST WINGWALL DETAILS



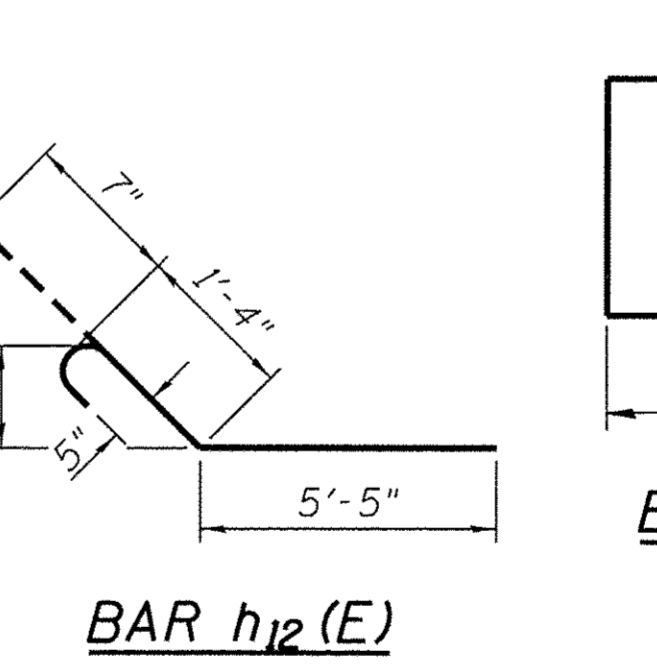
SECTION C-C



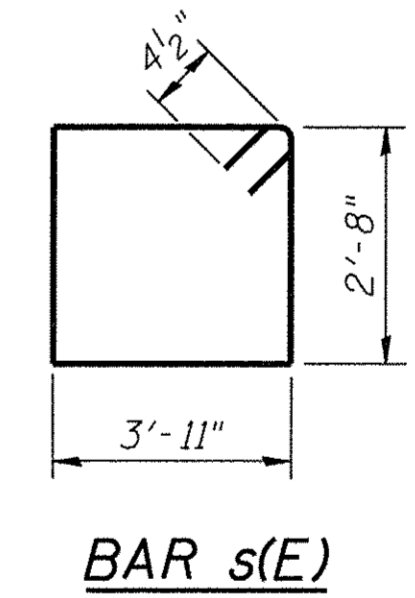
BAR h4(E) or h6(E)



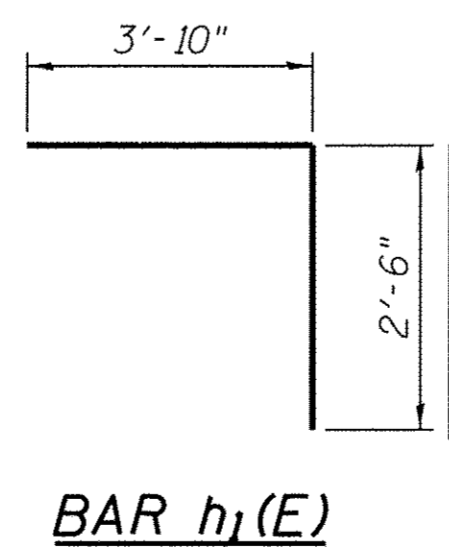
BAR h5(E) or h7(E)



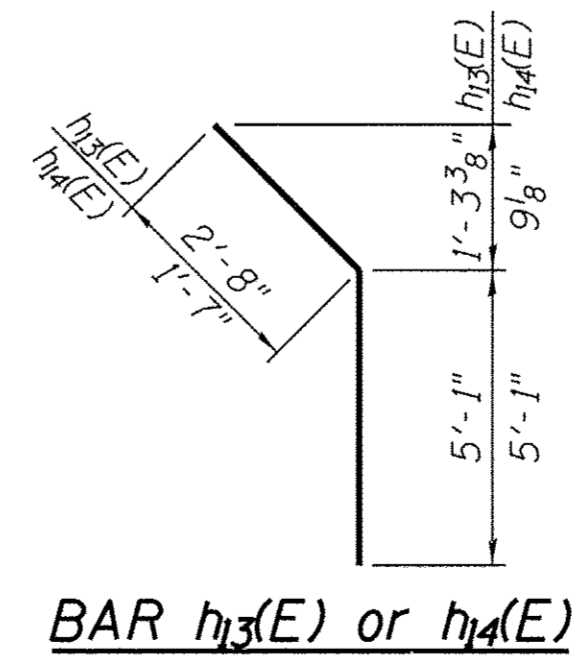
BAR h12(E)



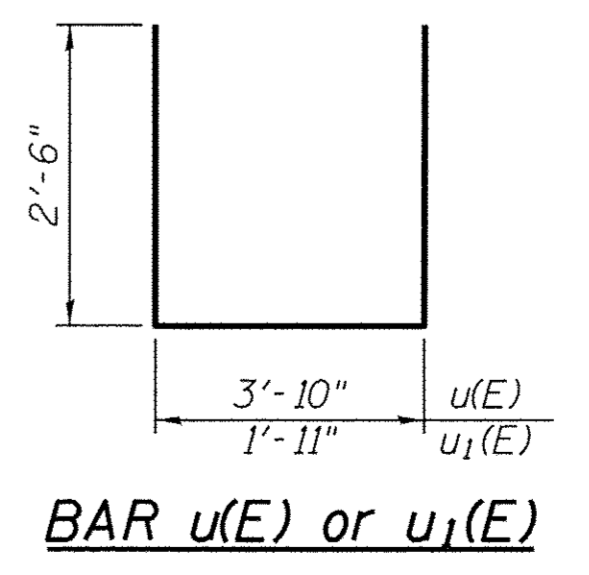
BAR s(E)



BAR h1(E)



BAR h13(E) or h14(E)



BAR u(E) or u1(E)

NOTES:

All exposed edges shall have standard 3/4" chamfers, except as noted.
 Space reinforcement in cap to miss dowel rods.
 After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a min. of 24 hours prior to grouting the shear keys.
 Minimum lap for spirals = 2'-7"
 **Length is height of spiral.



DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

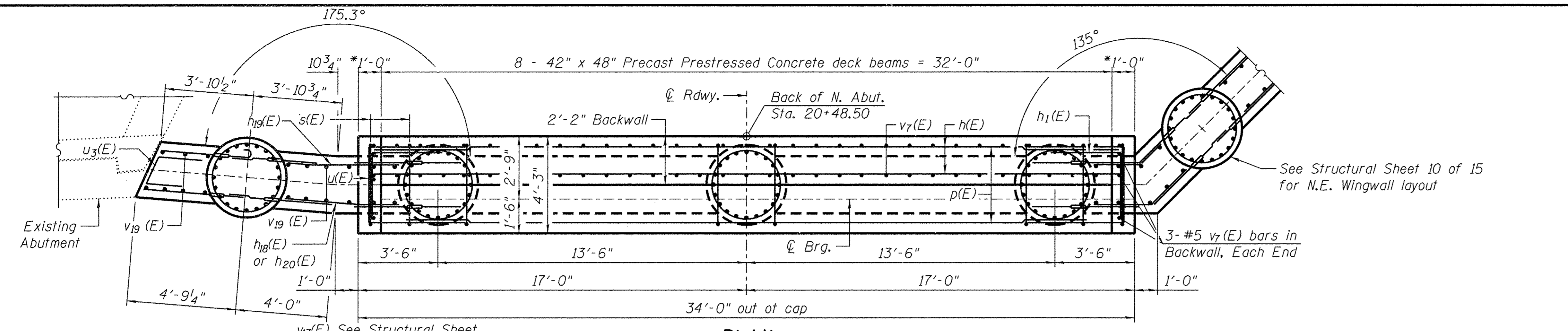
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

SOUTH ABUTMENT DETAILS
STRUCTURE NO. 008-6103
 STRUCTURAL SHEET NO. 8 OF 15 SHEETS

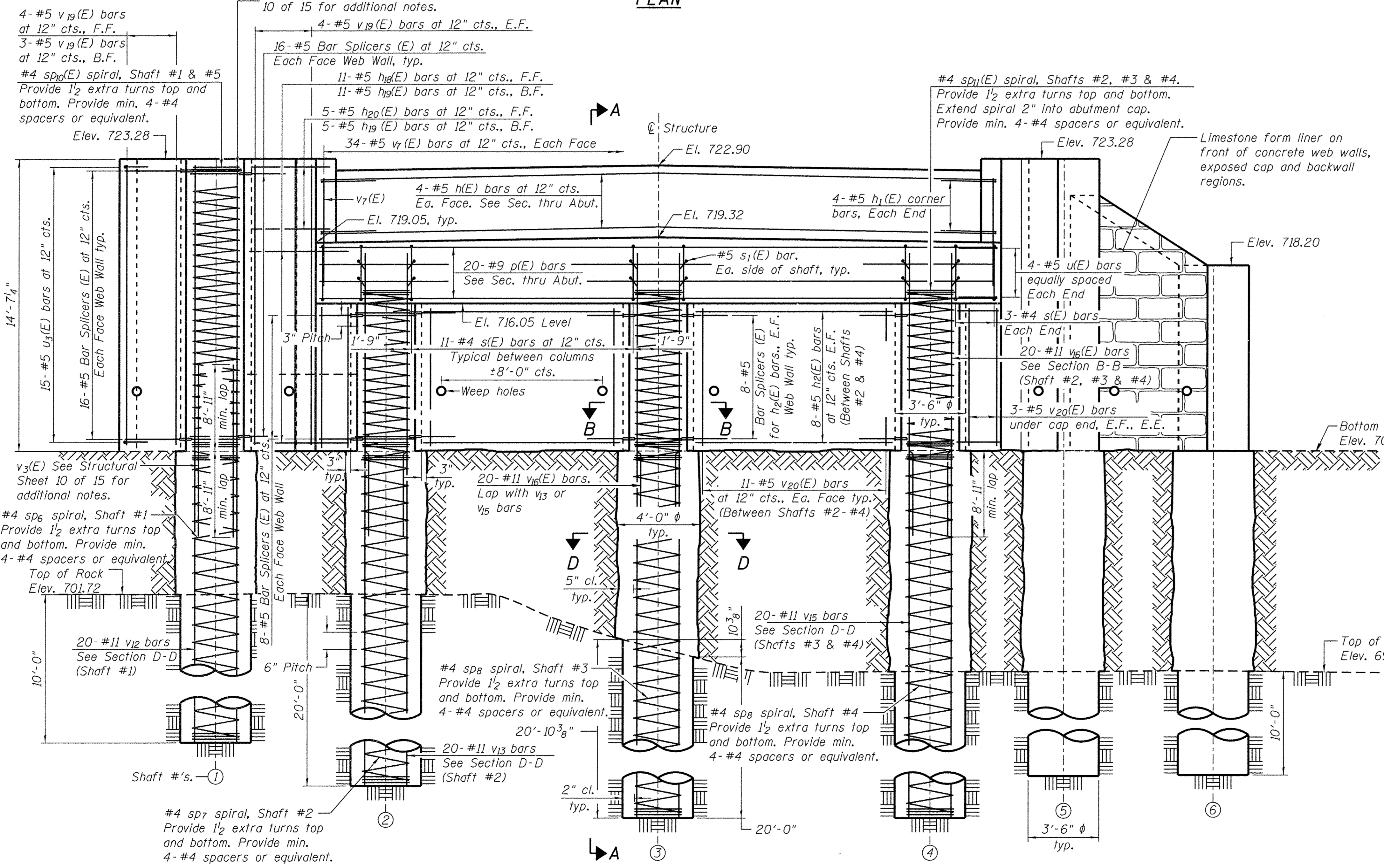
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	36
WHA # 1273010		CONTRACT NO. 85654		
		ILLINOIS FED. AID PROJECT BROS-00150501		

*May vary due to overrun of beams.

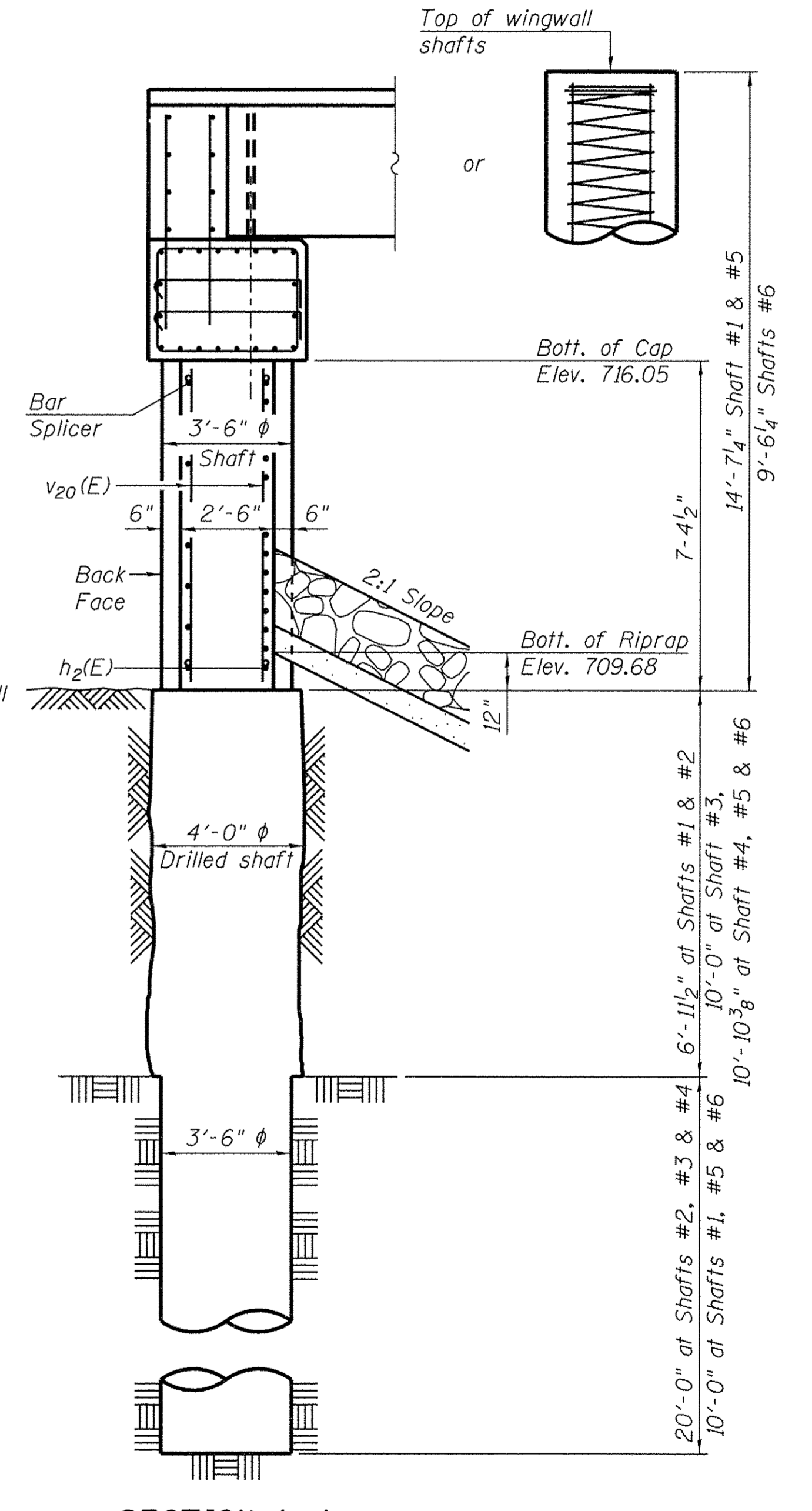
NOTE:
 See Structural Sheet 10 of 15 for Sections B-B & Section D-D
 B.F. - Back Face
 F.F. - Front Face
 E.F. - Each Face
 E.E. - Each End



PLAN



ELEVATION
(Looking North)



SECTION A-A

FILE: S:\PROJECTS\2018\1273010_Carroll County\Drawings\Proposed Structure\1273010_North Abutment_9-18.dwg
 W:\PROJECTS\2018\1273010_Carroll County\Drawings\Proposed Structure\1273010_North Abutment_9-18.dwg

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

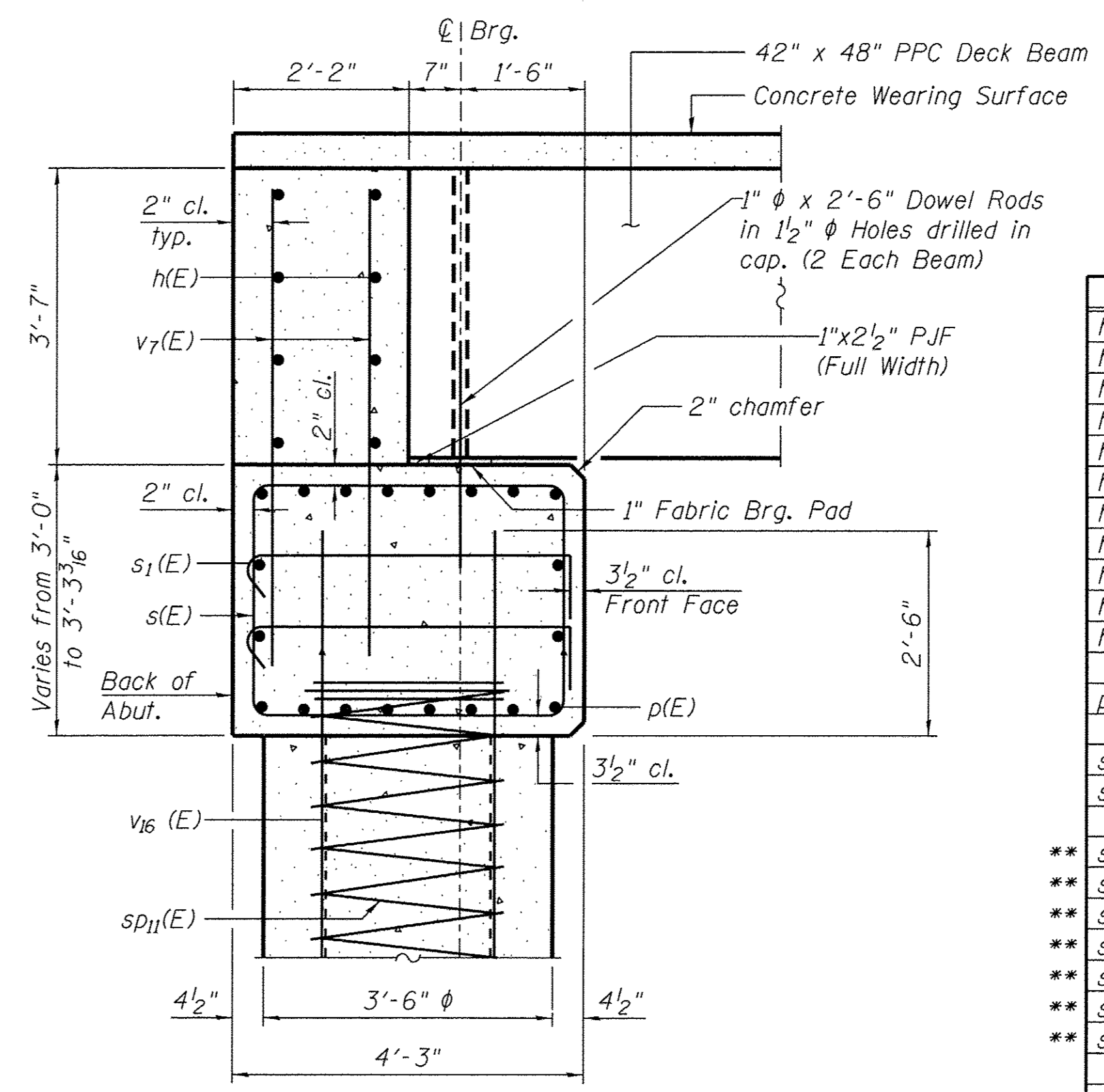
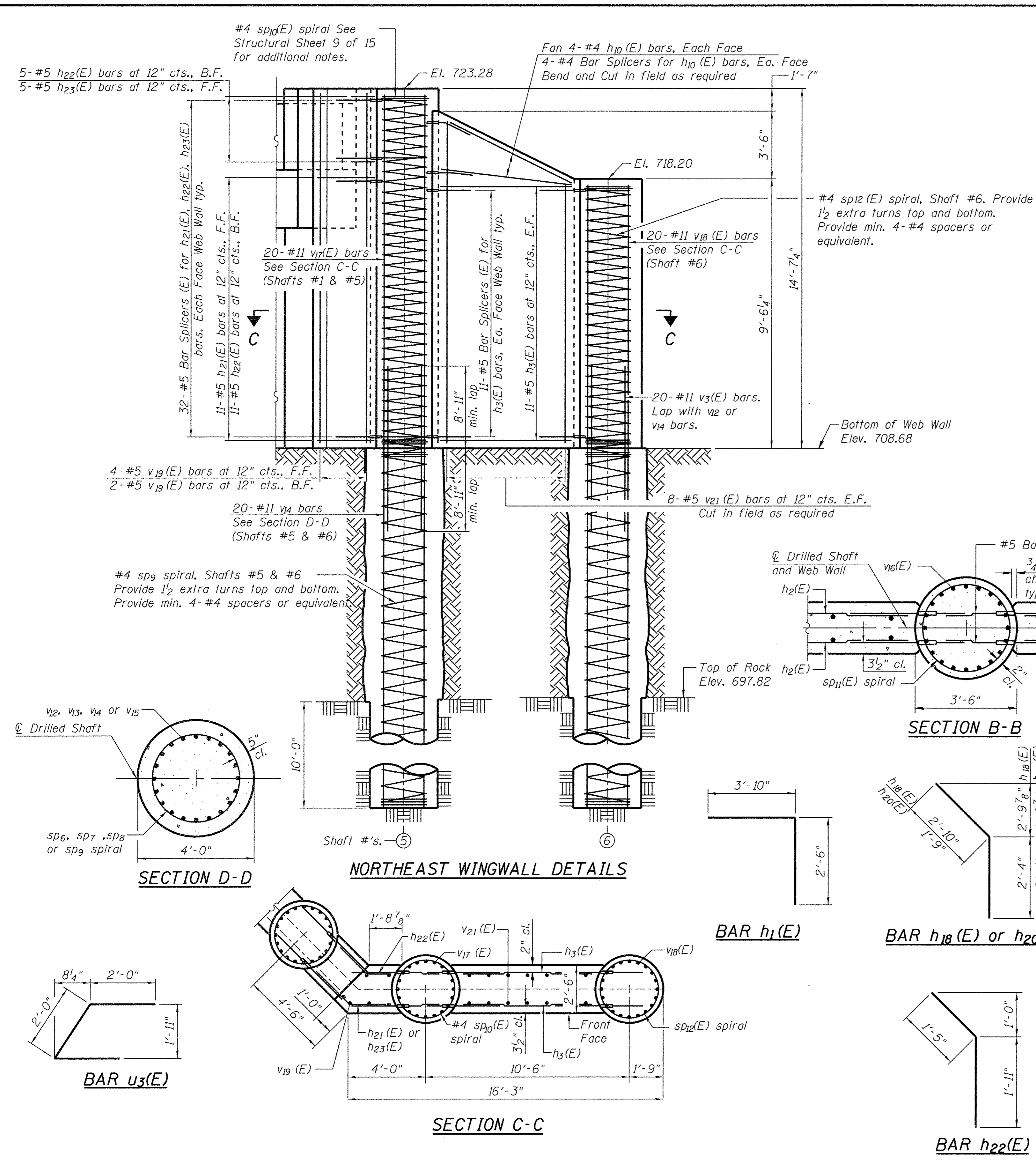
DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

NORTH ABUTMENT DETAILS
STRUCTURE NO. 008-6103
 STRUCTURAL SHEET NO. 9 OF 15 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	37
WHA# 1273010		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00150501				

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BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h ₁ (E)	8	#5	33'-8"	—
h ₂ (E)	32	#5	10'-1"	—
h ₃ (E)	22	#5	7'-2"	—
h ₉ (E)	8	#4	7'-10"	—
h ₁₀ (E)	11	#5	5'-2"	—
h ₁₉ (E)	16	#5	5'-1"	—
h ₂₀ (E)	5	#5	4'-1"	—
h ₂₁ (E)	11	#5	4'-10"	—
h ₂₂ (E)	16	#5	3'-4"	—
h ₂₃ (E)	5	#5	3'-10"	—
p(E)	20	#9	33'-8"	—
s(E)	28	#4	13'-11"	□
s ₁ (E)	12	#5	4'-11"	□
SD ₆	1	#4	16'-11"	
SD ₇	1	#4	26'-11"	
SD ₈	2	#4	30'-10"	
SD ₉	2	#4	20'-10"	
SD ₁₀ (E)	2	#4	14'-5"	
SD ₁₁ (E)	3	#4	7'-7"	
SD ₁₂ (E)	1	#4	9'-4"	
u(E)	8	#5	8'-10"	—
u ₃ (E)	15	#5	6'-0"	—
v ₃ (E)	60	#11	17'-10"	—
v ₇ (E)	74	#5	5'-6"	—
v ₁₂	20	#11	17'-0"	—
v ₁₃	20	#11	27'-0"	—
v ₁₄	40	#11	20'-10"	—
v ₁₅	40	#11	30'-10"	—
v ₁₆ (E)	60	#11	18'-11"	—
v ₁₇ (E)	40	#11	14'-5"	—
v ₁₈ (E)	20	#11	9'-4"	—
v ₁₉	21	#5	14'-4"	—
v ₂₀ (E)	56	#5	7'-0"	—
v ₂₁ (E)	16	#5	12'-8"	—
Structure Excavation		Cu. Yd.	25	
Concrete Structures		Cu. Yd.	87.1	
Reinforcement Bars		Pound	17,760	
Reinforcement Bars, Epoxy Coated		Pound	22,740	
Bar Splicers		Each	244	
Drilled Shaft in Soil		Cu. Yd.	26.5	
Drilled Shaft in Rock		Cu. Yd.	32.1	
Pipe Underdrains for Structures 4"		Foot	55	
Granular Backfill for Structures		Cu. Yd.	71	
Geocomposite Wall Drain		Sq. Yd.	46	

NOTES:

All exposed edges shall have standard 3/4" chamfers, except as noted.

Space reinforcement in cap to miss dowel rods.

After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a min. of 24 hours prior to grouting the shear keys.

Minimum lap for spirals = 2'-7"

**Length is height of spiral.

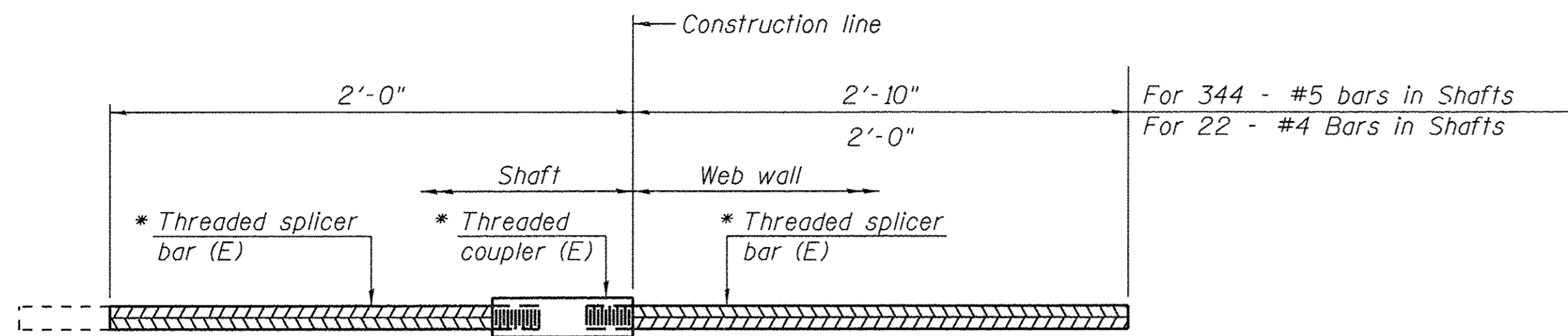
WILLET HOFMANN ASSOCIATES INC
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T. 815-284-3381 DESIGN FIRM #184-000918

DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

NORTH ABUTMENT DETAILS
STRUCTURE NO. 008-6103
 STRUCTURAL SHEET NO. 10 OF 15 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	38
WHA # 1273010		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT		BROS-00150501		

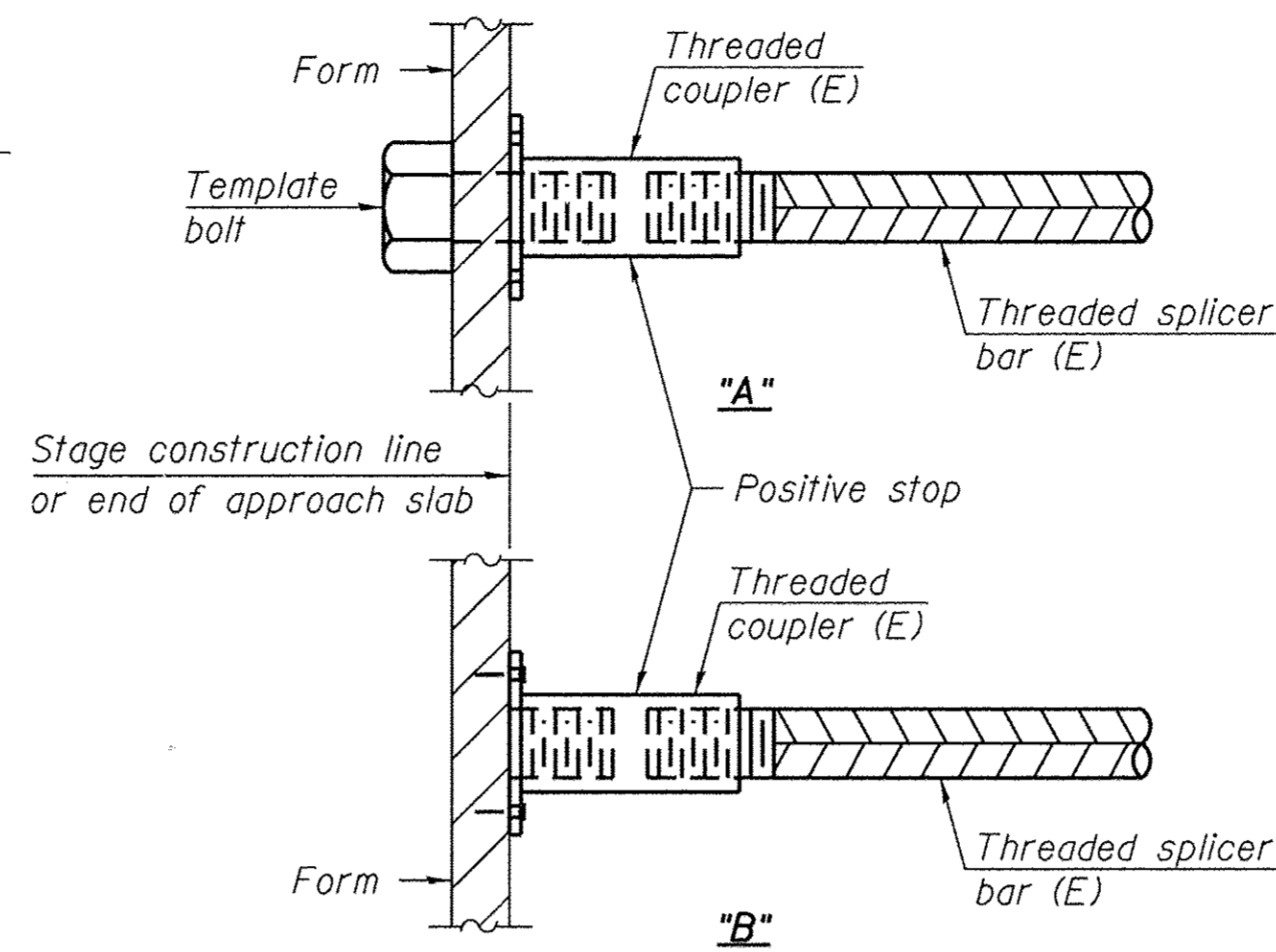


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

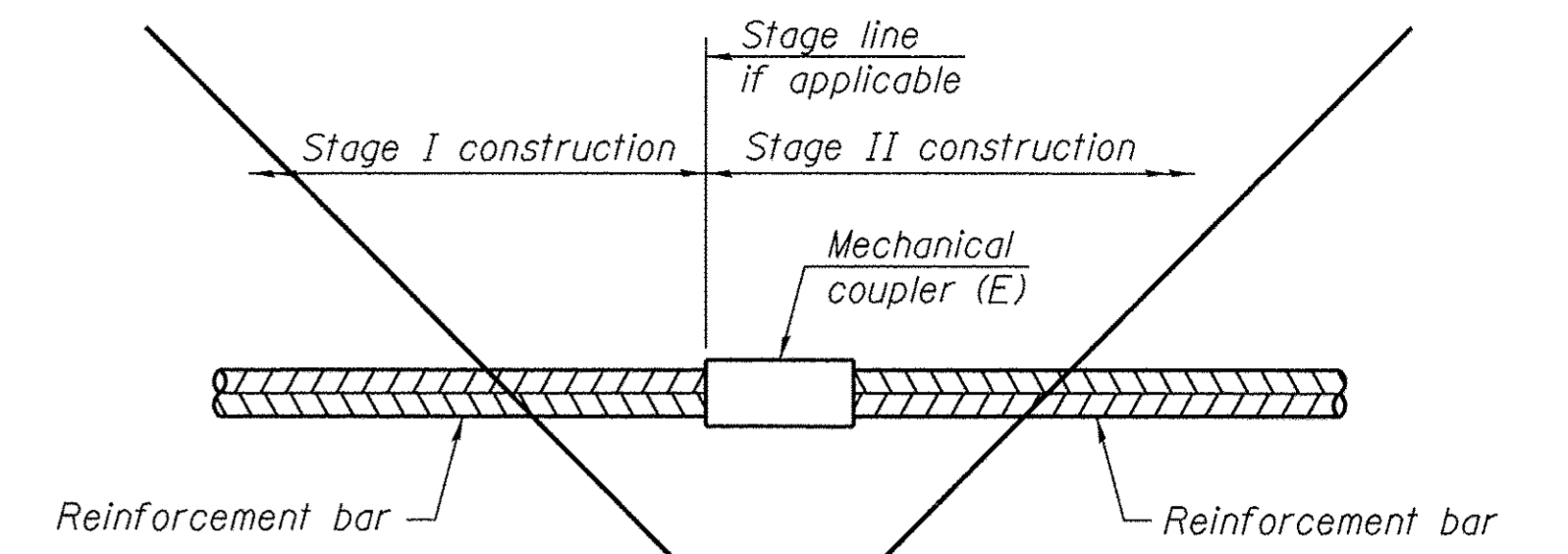
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required
Shaft	#5	509
Shaft	#4	22



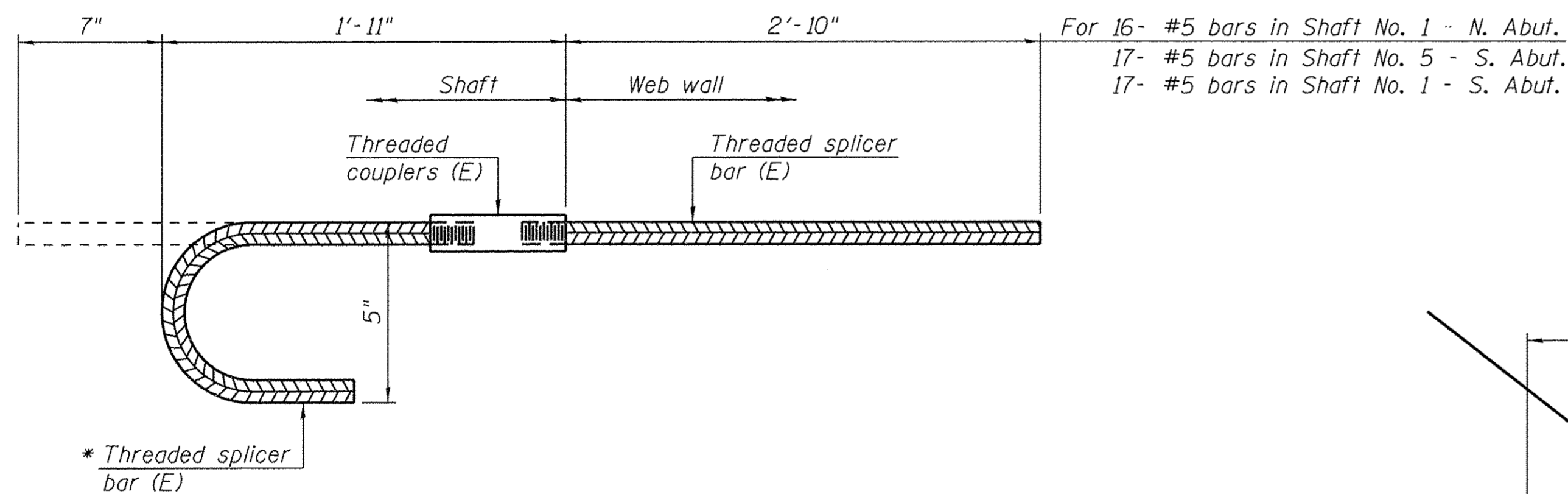
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

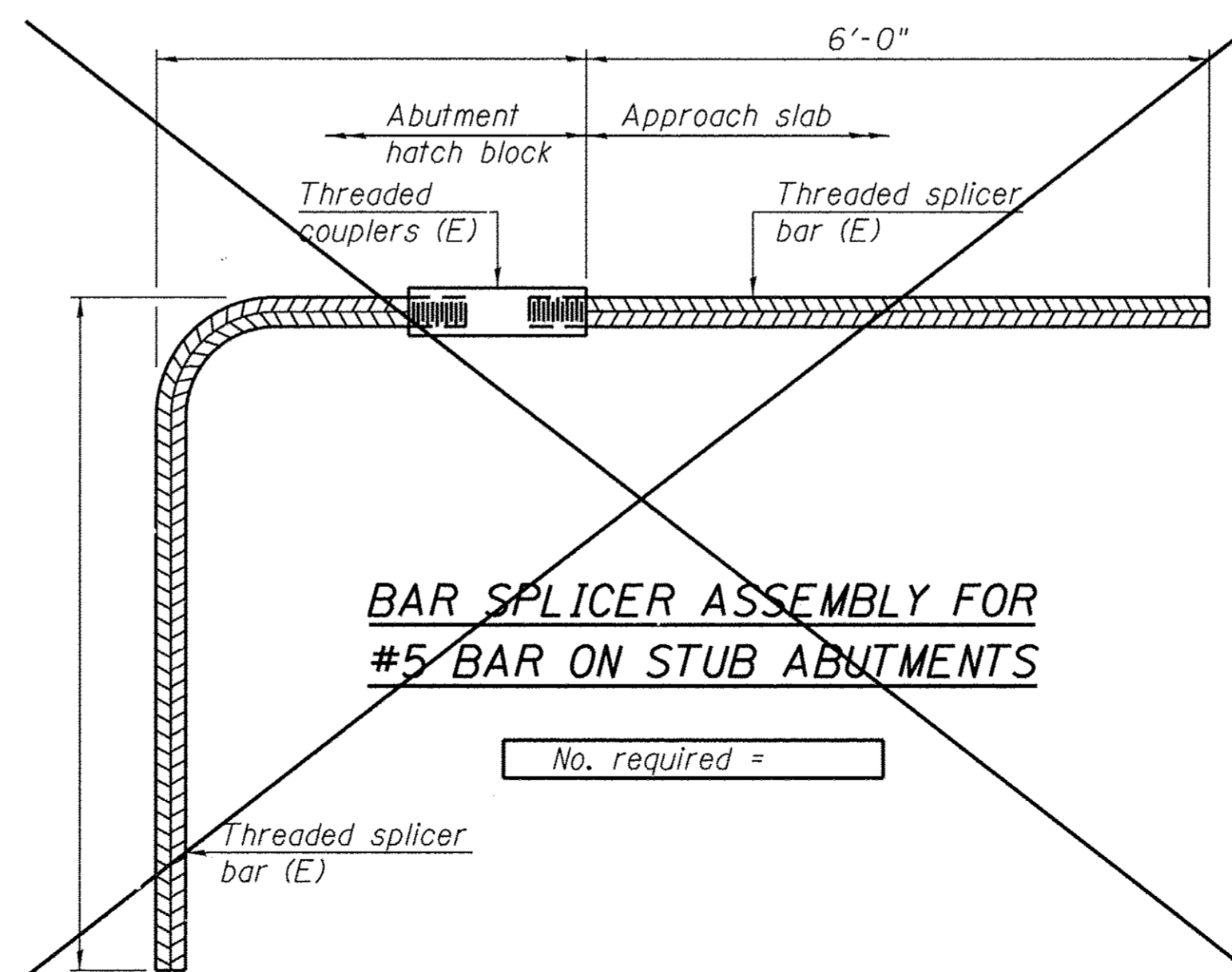


HOOKED BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required
* Shaft #1 - N. Abut.	#5	16
Shaft #5 - S. Abut.	#5	17
Shaft #1 - S. Abut.	#5	17



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with Threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

FILE = S:\PROJECTS\2010\1273010_Carroll County, Galena, S.E. BRIDGE\DESIGN\STRUCT\Drawings\Proposed Structure\1273010_Bar Splicer Details.dwg



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DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 008-6103

STRUCTURAL SHEET NO. 11 OF 15 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	39
WHA# 1273010		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BR05-0015(050)				

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

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

Sheet 1 of 1

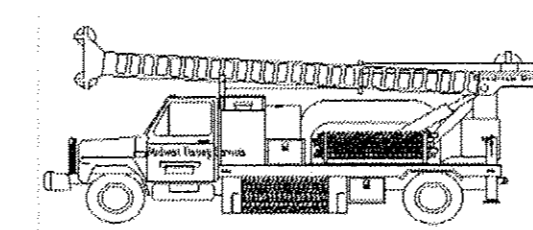
Client: Willett Hofmann & Associates
Project Name: N. Galena St. over Carroll Creek
Project Site: Section 08-00027-00-BR SN 008-6100
Mt. Carroll, IL

Boring No. SB-1
Surface Elev. 712.72
Auger Depth 11' Core Depth 22'
Start Date 09/19/13 Finish Date 09/19/13

Location: 16.5 ft. E of NE corner of N. Abutment and 3ft. South of
face of North Abutment Station 20+50 20'Left

(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 (%)		
712.72	Organic Topsoil		1								
711.72	COBBLY FILL, piece of red brick came up around auger		2								
710.72			3								
709.72			4								
708.72			5	1		59		20.0			
707.72	Soft black SANDY CLAY to CLAYEY SAND		6								
706.72			7	2	0.50	2	P	47.0			
705.72	Soft black SILTY CLAY w/pieces of limestone in shoe		8								
704.72			9								
703.72			10	3	0.25	9	P	36.0			
702.72	Top of rock, auger & hammer refusal Begin Rock Core at 11' depth		11								
701.72			12	4		50/2"		14.0			
700.72	Bottom of Rock Core Elevation 690.72		13								
699.72			14								
698.72			15								
697.72			16								
696.72			17								
695.72			18								
694.72			19								
693.72			20								
692.72											

Groundwater Data: After 4 hours water at 6'
Comments:



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

Date: 9/19/13 Page: 1 of 1

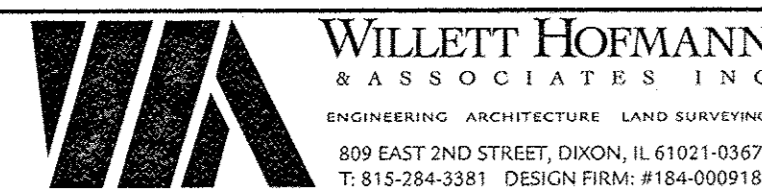
Route: N. Galeana St. Struc # 008-6100 *(Exist.) (Prop.)
Section: 08-00027-00-BR Description: SW corner of proposed bridge over Carroll Creek
County: Carroll Logged by: Terry McCleary
Boring No.: SB-1 Coring Method: Solid Core Diameter: 2 in
Station: 20+50 Barrel Type: 2"
Offset: 20' Left Barrel Size: 2"
Latitude: N 42.10366666 Top of Rock Elev.: 701.72
Longitude: W -89.9820000 Begin Core Elev.: 701.72

Rock Type, Description and Observations	ELEV. (ft)	DEPTH (ft)	CORE No.	RECOVER. (%)	R.Q.D. (%)	TIME (min/ft)	U.C.S. Qu (tsf)
Weathered Vuggy Dolostone with numerous horizontal jointing approximately 6" to 12" apart. Joints are less than 0.08" thick with no apparent filling. Numerous verticle & horizontal fractures Galena-Platteville Dolomite, Ordovician	700.72	1	1	100	0	3.6	
	699.72	2					
	698.72	3					
	697.72	4					
	696.72	5	2	100	30	3.0	
	695.72	6					
	694.72	7					
	693.72	8					
	692.72	9	3	100	28	2.7	
	691.72	10					
	690.72	11					
End of Core							
	689.72	12					
	688.72	13					
	687.72	14					
	686.72	15					
	685.72	16					
	684.72	17					
	683.72	18					
	682.72	19					
	681.72	20					

Color pictures of the cores taken (Y/N): Y Cores will be disposed of after: Cores will be delivered to IDOT
Cores will be stored for examination at: McCleary Engineering
The U.C.S. Qu column represents the Unconfined Compressive Strength using ASTM D-2938

* Where core broke at bedding planes, the breaks are slightly undulating and planes are relatively smooth. Where core broke during drilling process (not across bedding planes), the breaks are rough and non-planar. BBS 138 (Rev. 01/04/2012)

FILE: S:\PROJECTS\2010\1273010_Carroll\1_County_Galena_SIL\BR\DESIGN\STRUCT\Drawings\Proposed_Structure\1273010_Boring_Log_12-15.dgn

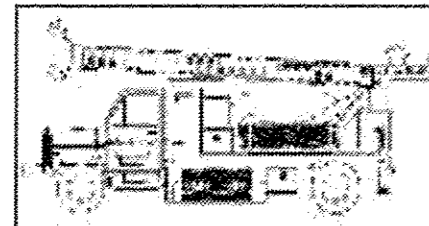


DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

BORING LOGS
STRUCTURE NO. 008-6103
STRUCTURAL SHEET NO. 12 OF 15 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	40
WHA# 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BR05-00150501				



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

BORING LOG

Sheet 1 of 1

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

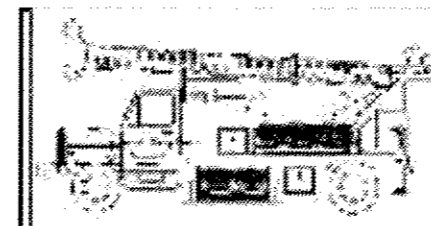
Client: Willett Hofmann and Associates
Project Name: N. Galena St. over Carroll Creek
Project Site: Section 08-00027-00-BR SN 008-6100
Mt. Carroll, IL

Boring No. P-1
Surface Elev. 712.82
Auger Depth 15' Rotary Depth NA
Start Date 09/19/13 Finish Date 09/19/13

Location: 33.5 ft. E. of NE Corner of N. Abutment And 4.0 ft. South of
Face of North Abutment Station 20+45 17' Right

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	
712.82										CME-55
										REMARKS
711.82	Cobbly Fill		1							
710.82			2							
709.82			3							
708.82			4							
707.82			5							
706.82			6							
705.82			7							
704.82			8							
703.82			9							
702.82			10							
699.82	Coarse rounded Gravel		13							
698.82			14							
697.82	Auger refusal		15							
696.82			16							
695.82			17							
694.82			18							
693.82			19							
692.82			20							

Groundwater Data:
Comments:



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

BORING LOG

Sheet 1 of 2

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

Client: Willett Hofmann & Associates
Project Name: N. Galena St. over Carroll Creek
Project Site: Section 08-00027-00-BR SN 008-6100
Mt. Carroll, IL

Boring No. SB-2
Surface Elev. 714.32
Auger Depth 23' Core Depth 33'
Start Date 09/20/13 Finish Date 09/20/13

Location: 36 ft. E. of SE Corner of S. Abutment and 16.5 ft. South
of Face of S. Abutment Station 19+35 17' Right

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	
714.32										CME-55
										REMARKS
713.32	Stiff dark brown SILTY CLAY		1							
712.32			2	1	1.00	10	P	15.0		
711.32			3							
710.32			4							
709.32			5	2	0.50	6	P	27.0		
708.32	Wet brown medium dense medium SAND trace gravel		6							
707.32			7	3		13		19.0		
706.32	Brown loose very angular GRAVEL		8							
705.32			9							
704.32	Brown loose subangular GRAVEL 2" CLAY seam at 12.5'		10	4		5		16.0		
703.32			11							
702.32			12	5		7		16.0		
701.32	Brown dense anglar GRAVEL		13							
700.32			14							
699.32	Brown dense anglar GRAVEL		15	6		50		10.0		
698.32			16							
697.32	Brown SILT		17	7		37	P	14.0		
696.32			18			1.00				
695.32	Dense brown SILTY GRAVEL		19							
694.32			20	8		74		13.0		

Groundwater Data: *First encountered water at 9'*
Comments:

FILE: SA\PROJECTS\2013\1272010_Carroll\County\Galena St. BR\DESIGN\STRUCT\Drawings\Proposed_Structure\1272010_Boring_Logs\12-15-13.dgn



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

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

BORING LOGS
STRUCTURE NO. 008-6103

STRUCTURAL SHEET NO. 13 OF 15 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	41
WHA# 1273010		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00160501				



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3705 Progress Blvd.
Peru, IL 61354

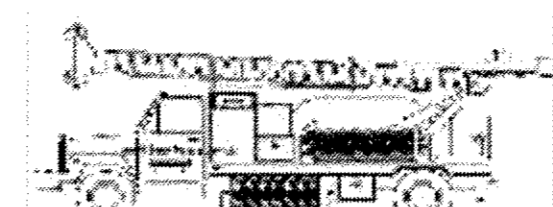
BORING LOG Phone: 815-223-6696
Fax: 815-223-6659
e-mail: mts37@comcast.net
Sheet 2 of 2

Client: Willett Hofmann & Associates Boring No. SB-2
Project Name: N. Galena St. over Carroll Creek Surface Elev. 714.32
Project Site: Section 08-00027-00-BR SN 008-6100 Auger Depth 23' Core Depth 33'
Mt. Carroll, IL Start Date 09/20/13 Finish Date 09/20/13

Location: 36 ft. E. of SE Corner of S. Abutment and 16.5 ft. South of Face of S. Abutment Station 19+35 17' Right

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	
693.32										CME-55
692.32	Very weathered LIMESTONE		22	9		62/6"	13.0			
691.32	Auger refusal - Begin Rock Core		23							
690.32			24							
689.32			25							
688.32			26							
687.32			27							
686.32			28							
685.32			29							
684.32			30							
683.32			31							
682.32			32							
681.32	Bottom of Rock Core		33							
			34							
			35							
			36							
			37							
			38							
			39							
			40							
			41							

Groundwater Data: First encountered water at 9'
Comments:



Midwest Testing Services, Inc **ROCK CORE LOG**
3705 Progress Blvd.
Peru, IL 61354

Date: 9/20/13 Page: 1 of 1

Route: N. Galeana St. Struc # 008-6100 * (Exist.) (Prop.)
Section: 08-00027-00-BR Description: SE quadrant of proposed bridge over Carroll Creek
County: Carroll Logged by: Terry McCleary
Boring No.: SB-2 Coring Method: _____ Core Diameter: 2 in
Station: 19+35 Barrel Type: Solid
Offset: 17' Right Barrel Size: 2"
Latitude: 42.10310861 Top of Rock Elev.: 693.32
Longitude: -89.98196213 Begin Core Elev.: 691.32

Rock Type, Description and Observations	ELEV. (ft)	DEPTH (ft)	CORE No.	RECOV. (%)	R.Q.D. (%)	TIME (min/ft)	U.C.S. Qu (tsf)
Weathered Vuggy Dolostone with numerous horizontal jointing approximately 6" to 12" apart. Joints are less than 0.08" thick with no apparent filling. Numerous verticle & horizontal fractures Galena-Platteville Dolomite, Ordovician	690.32	1	1	100	0	2.0	
	689.32	2					
	688.32	3					
	687.32	4					
	686.32	5					
	685.32	6					
	684.32	7					
	683.32	8					
	682.32	9					
	681.32	10					
End of Core							
	680.32	11	2	100	18	2.5	
	679.32	12					
	680.32	13					
	679.32	14					
	678.32	15					
	679.32	16					
	678.32	17					
	677.32	18					
	676.32	19					
	675.32	20					

Color pictures of the cores taken (Y/N): Y Cores will be disposed of after: Cores will be delivered to IDOT
Cores will be stored for examination at: McCleary Engineering
The U.C.S. Qu column represents the Unconfined Compressive Strength using ASTM D-2938

* Where core broke at bedding planes, the breaks are slightly undulating and planes are relatively smooth. Where core broke during drilling process (not across bedding planes), the breaks are rough and non-planar. BBS 138 (Rev. 01/04/2012)

FILE: S:\PROJECTS\2013\1272018_Carroll\DESIGN\STRUCT\Drawings\Proposed_Structure\1272018_Boring_Logs\12-15.dgn



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CHECKED - MAC
DRAWN - FDL
CHECKED - BKC

REVISED -
REVISED -
REVISED -
REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

BORING LOGS
STRUCTURE NO. 008-6100
STRUCTURAL SHEET NO. 14 OF 15 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	42
WHA# 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-0019(050)				



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

BORING LOG

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

Sheet 1 of 1

Client: Willett Hofmann and Associates
Project Name: N. Galena St. over Carroll Creek
Project Site: Section 08-00027-00-BR SN 008-6100
Mt. Carroll, IL

Boring No. P-2
Surface Elev. 713.92
Auger Depth 18' Rotary Depth NA
Start Date 09/20/13 Finish Date 09/20/13

Location: 22-ft. E. of SE Corner of South Abutment and 3.5-ft.
North of Face of South Abutment Station 19+60 1' Left

(DEPTH) *ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	SAMPLES						DRILLED BY	REMARKS
				Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	
713.92										CME-55	
712.92	Cobbly Fill		1								
711.92			2								
710.92			3								
709.92			4								
708.92			5								
707.92	Black Loam		6								
706.92			7								
705.92			8								
704.92			9								
703.92			10								
702.92	Gravel		11								
701.92			12								
700.92			13								
699.92			14								
698.92			15								
697.92	Auger refusal		16								
696.92			17								
695.92			18								
694.92			19								
693.92			20								

Groundwater Data: First encountered at 6.5', after 3 hours; 6.5'
Comments:

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

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

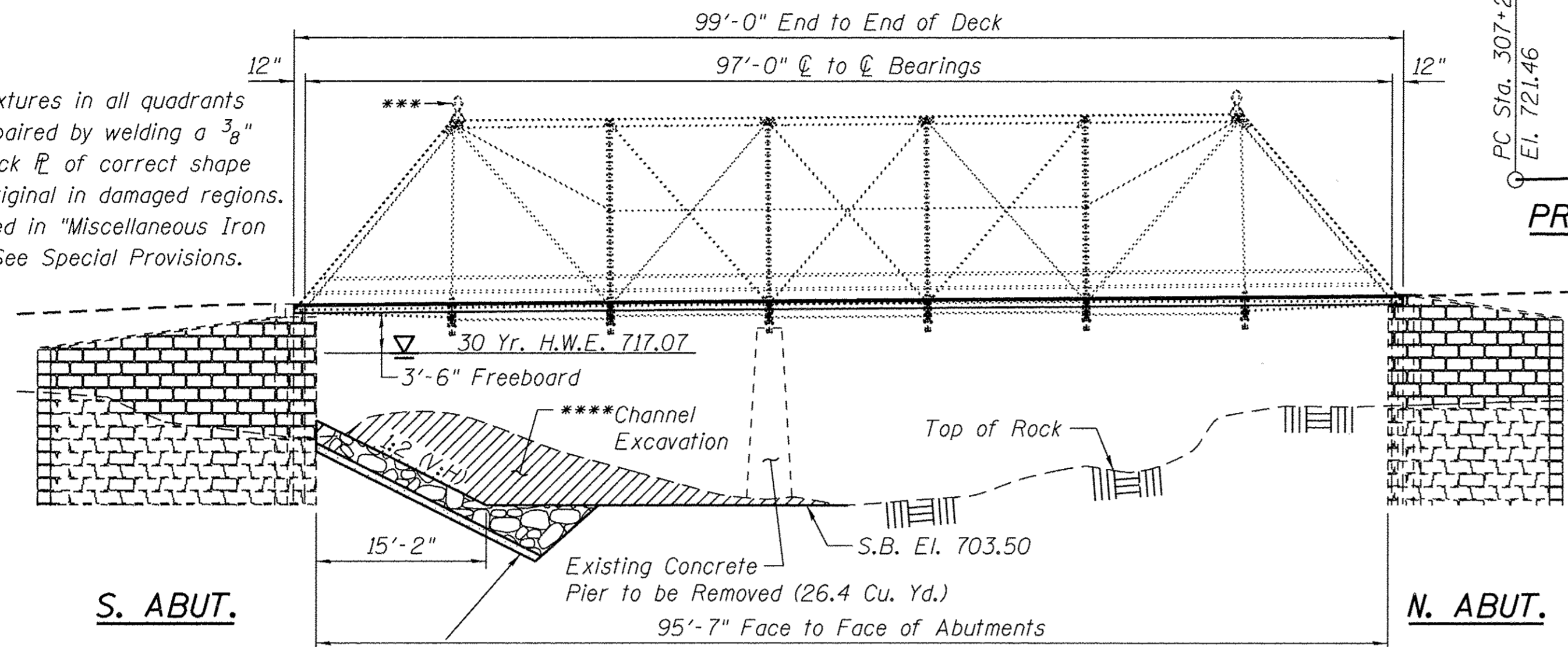
BORING LOGS
STRUCTURE NO. 008-6103
STRUCTURAL SHEET NO. 15 OF 15 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	43
WHA# 1273D10			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BR05-0015(050)				

EXISTING STRUCTURE: S.N. 008-6100
Originally constructed in 1901 at Station 307+70 as a single span (1 at 97'-0") wrought iron truss bridge. The structure is supported on limestone closed abutments. The existing structure to be rehabilitated and function as a pedestrian bridge.

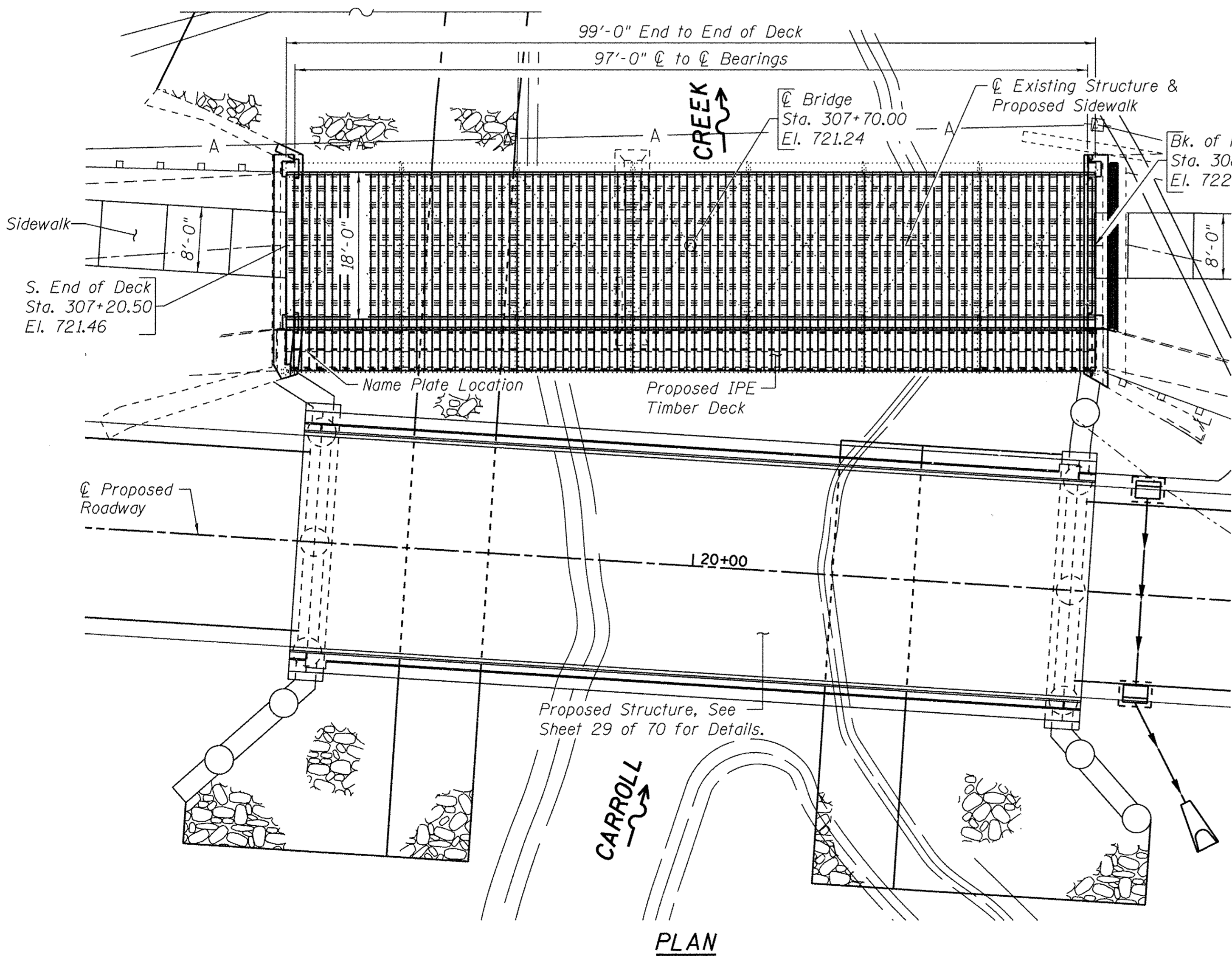
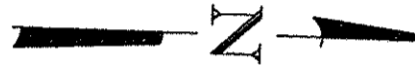
BENCH MARK #401: Chiseled "□" in N.W. headwall of existing bridge, El 722.50

***Damaged fixtures in all quadrants shall be repaired by welding a 3/8" minimum thick R of correct shape to match original in damaged regions. Cost included in "Miscellaneous Iron Castings". See Special Provisions.



ELEVATION
(Showing Historic Truss only)
(Elevation of Proposed Structure, See Sheet 29 of 70.)

****See Sheets 64-66 for Channel Excavation.



PLAN

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 Superstructure
- 3 Framing Plan
- 4 Structural Steel Details
- 5 South Abutment Removal Details
- 6 South Abutment Repair Details
- 7 North Abutment Removal Details
- 8 North Abutment Repair Details

PEDESTRIAN LOADING

65 psf

**DESIGN SPECIFICATIONS
(EXISTING BRIDGE)**

2002 AASHTO Standard Specifications for Highway Bridge Design, 17th Ed.

LRFD Guide Specifications for the Design of Pedestrian Bridges, 2nd Ed. with 2015 Interims

DESIGN STRESSES

FIELD UNITS (PROPOSED WORK)

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (Structural Steel)

MATERIAL SPECIFICATIONS

Timber Planks: IPE Decking S3S, E4E

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.089
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.055
Soil Site Class = C

CARROLL CREEK
REHABILITATED 2017 BY
CARROLL COUNTY
SECTION 08-00027-00-BR
STATION 307+70
STR. NO. 008-6100 LOADING 65 PSF

NAME PLATE LETTERING

Refer To Std. 515001

DESIGN SCOUR ELEVATION TABLE

Event / Limit	Design Scour Elevations (ft.)			Item 113
State	S. Abut.	N. Abut.		
Q100	695.92	701.72		5
Q200	695.92	701.72		
Design	695.92	701.72		
Check	695.92	701.72		



DATE: *Brian K. Conner*
EXPIRES 11/30/18

"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'."

BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.		36.4	36.4
Structure Excavation	Cu. Yd.		7	7
Concrete Structures	Cu. Yd.	10		10
Furnishing and Erecting Structural Steel	L. Sum	1		1
Untreated Timber	FBM	8,198		8,198
Hardware	Pound	251		251
Reinforcement Bars, Epoxy Coated	Pound		1,183	1,183
Name Plates	Each		1	1
Granular Backfill for Structures	Cu. Yd.		6	6
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L. Sum	1		1
Cleaning and Painting Steel Bridge, No. 1	L. Sum	1		1
Masonry Cleaning and Tuck Pointing	L. Sum		1	1
Miscellaneous Iron Castings	Each	155		155
Railing	Foot	219		219
Removal of Existing Timber Floor	Each	1		1
Removing & Resetting Posts	Each	2		2

GENERAL NOTES:

Fasteners shall be ASTM A325 Type 1, Mechanical Galvanized Bolts, 3/4" ϕ , holes 13/16" ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 38,430 lbs.

All structural steel shall be AASHTO M 270 Grade 36.

No field welding is permitted except as specified in the contract documents.

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.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. For riprap layout and bill of material see Sheet 30 of 70.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All steel except for galvanized steel called out in plans, shall be cleaned per Near White Blast Cleaning - SSPC-SP10. All steel shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color of the final coat for all steel surfaces shall be Gray, Munsell No. 5B 7/1.

After the entire structure has been sandblasted the Engineer shall inspect all members for adequacy and if members are structurally deficient they shall be replaced and paid for in accordance with Article 109.04 of the Standard Specifications.

All lag screws shall conform to ANSI/ASME Standard B18.2.1-1981.

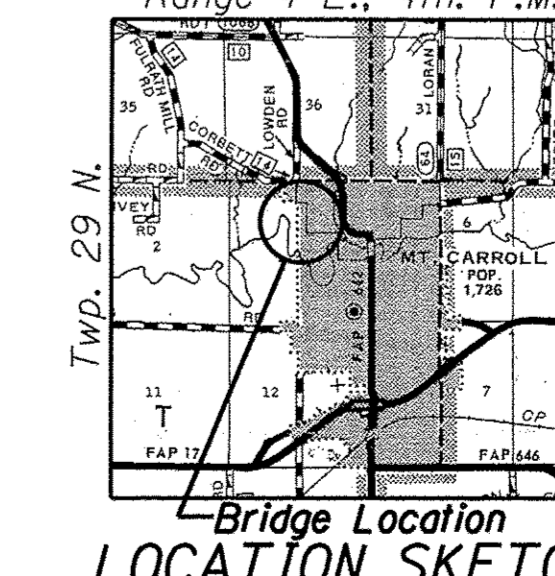
Deck carriage bolts, nuts and washers along with post plates shall be stainless steel, see Special Provisions.

**See special provisions.

WATERWAY INFORMATION

		Drainage Area = 50.1 sq. mi.		Low Grade El. 715.06 @ Sta. 15+36.06			
Flood	Freq. Yr.	Q	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft. Exist. *Prop.	Headwater El. Exist. *Prop.	
Overtopping	5	3,436	548	715.66	0.00	0.00	715.66 715.66
	10	4,375	605	1,038	716.28	0.00	0.00 716.28 716.28
Design	30	5,700	678	1,109	717.07	0.02	0.00 717.09 717.07
Base	100	7,105	754	1,183	717.89	0.06	0.00 717.95 717.89
Scour Check	200	7,400	770	1,198	718.06	0.07	0.00 718.26 718.06
Max. Calc.	500	7,670	784	1,212	718.22	0.07	0.00 718.29 718.22

*Proposed structure modeled in HEC-RAS as the opening of the proposed and the width of the existing and proposed combined since they are so close. Range 4 E., 4th. P.M.



GENERAL PLAN AND ELEVATION

HISTORIC STRUCTURE
NORTH GALENA STREET OVER
CARROLL CREEK
SECTION 08-00027-00-BR
CARROLL COUNTY
STATION 307+70
STRUCTURE NO. 008-6100



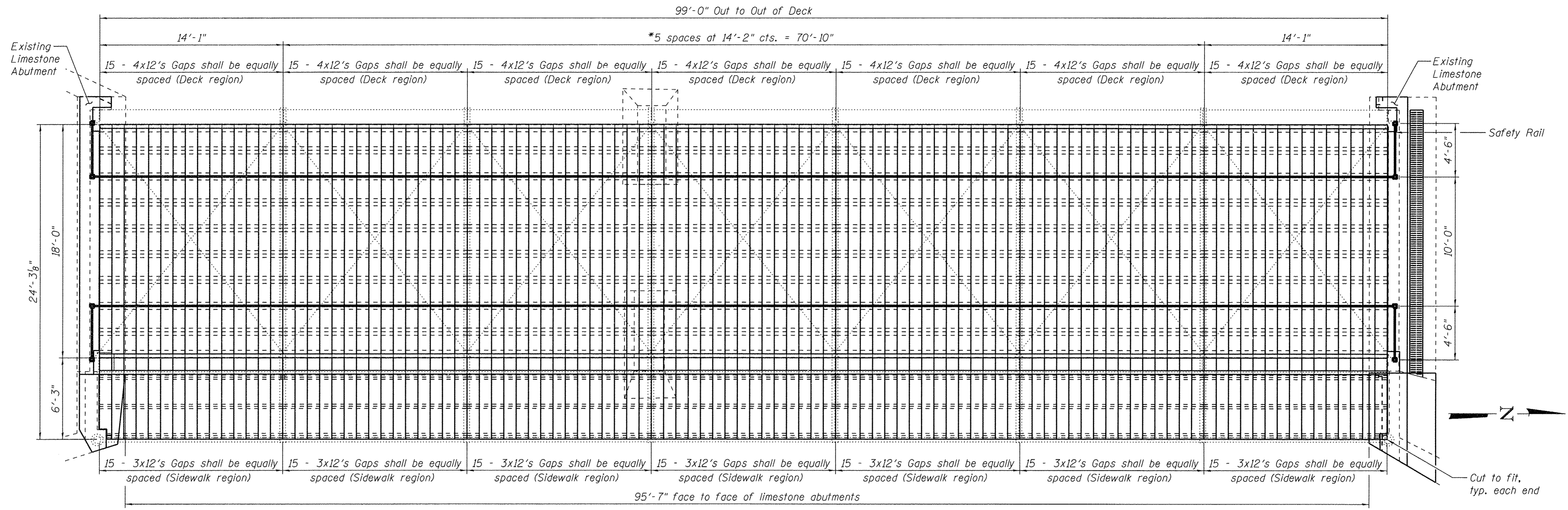
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CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 307 + 70

GENERAL PLAN AND ELEVATION - HISTORIC STRUCTURE
STRUCTURE NO. 008-6103
STRUCTURAL SHEET NO. 1 OF 8 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	44
WHA# 1273D10			CONTRACT NO. 85654	
[ILLINOIS] FED. AID PROJECT BROS-001510501				

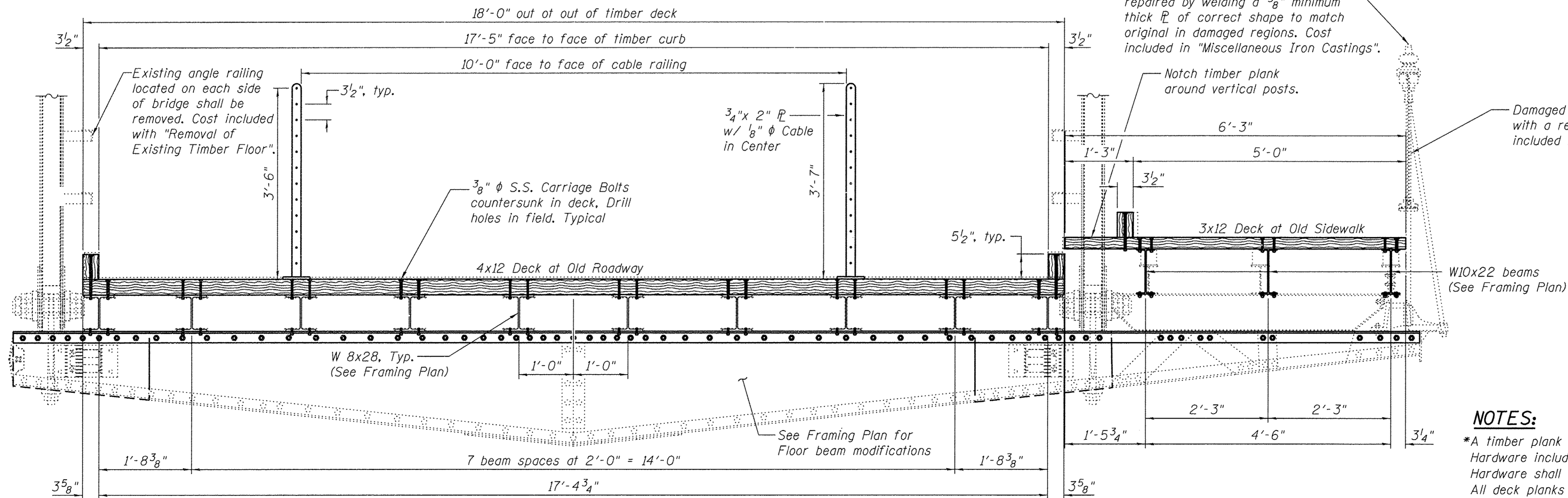
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S. ABUT.

DECK PLANK - PLAN VIEW

N. ABUT.



BRIDGE DECK CROSS SECTION
(Looking North)

Damaged rail fixtures shall be repaired by welding a $\frac{3}{8}$ " minimum thick PL of correct shape to match original in damaged regions. Cost included in "Miscellaneous Iron Castings".

Damaged rail fixtures (both sides of rail) shall be replaced with a replica created from an original undamaged fixture. Cost included in "Miscellaneous Iron Castings".

BILL OF MATERIALS

Item	Unit	Quantity
Untreated Timber	FBM	8,198
Hardware	Pound	251
Miscellaneous Iron Castings	Each	155
Railing	Foot	219

NOTES:

*A timber plank separation or joint shall occur at all floor beam location. Hardware includes all carriage bolts, nuts & washers. Hardware shall be stainless steel, see special provisions. All deck planks and curbs shall be Ipe, S4S, E4E, see special provisions. All timber member dimensions shown, ie 4x12 deck planks, are nominal. For number of carriage bolts, see Framing Plan on Structural Sheet 3 of 8.



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DRAWN - FDL	REVISED -
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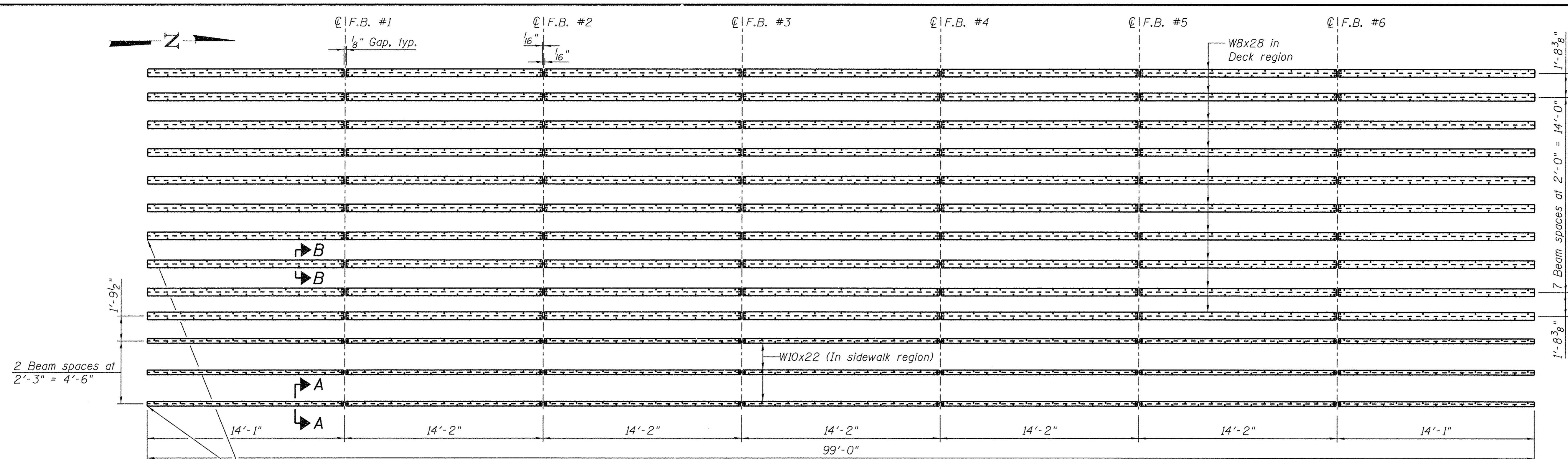
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 307 + 70

SUPERSTRUCTURE
STRUCTURE NO. 008-6100

STRUCTURAL SHEET NO. 2 OF 8 SHEETS

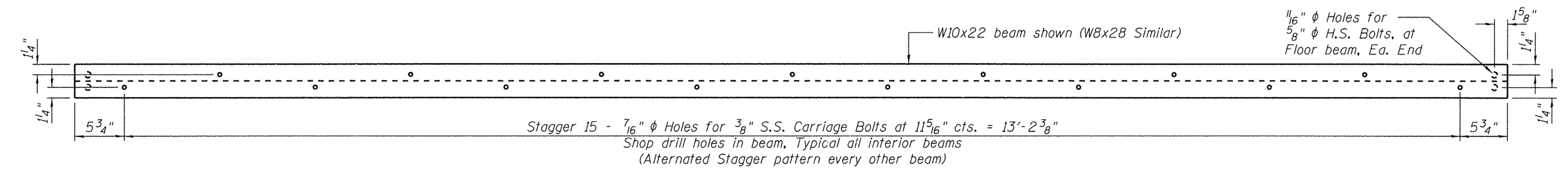
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WHA# 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BR05-00150501				

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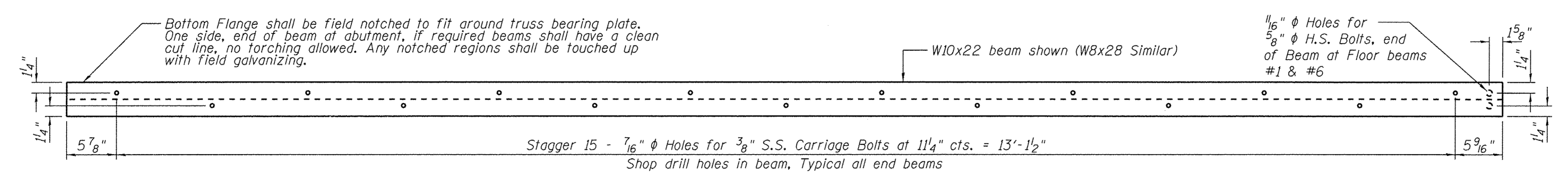


Ends of beams at both abutments may be field trimmed if Engineer determines this is required for best fit. Beams shall have a clean cut line & no torching allowed. Any beam cut regions shall be touched up with field galvanizing.

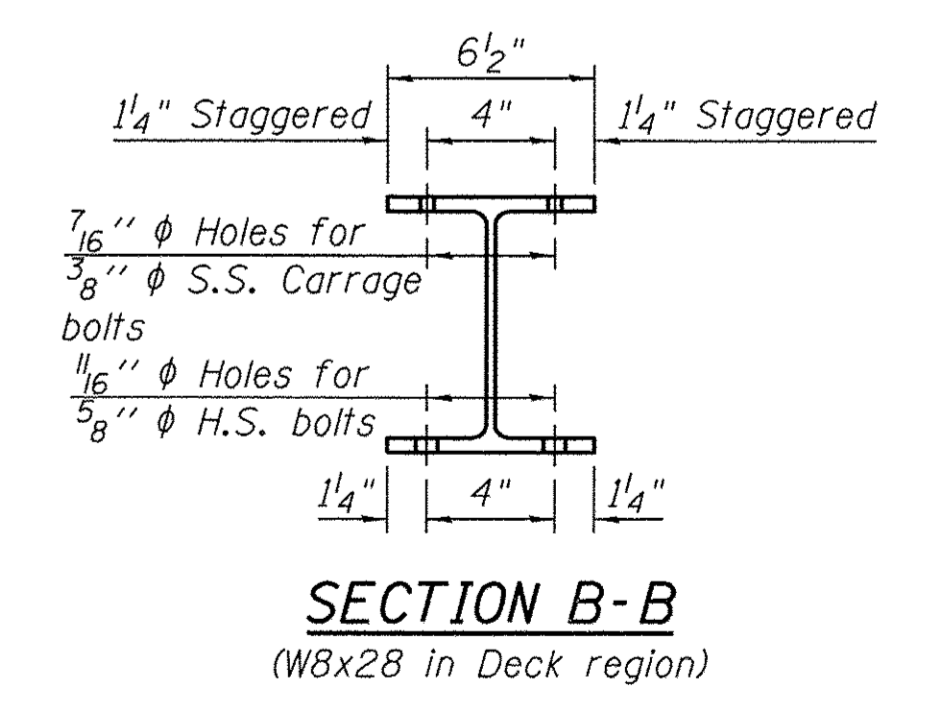
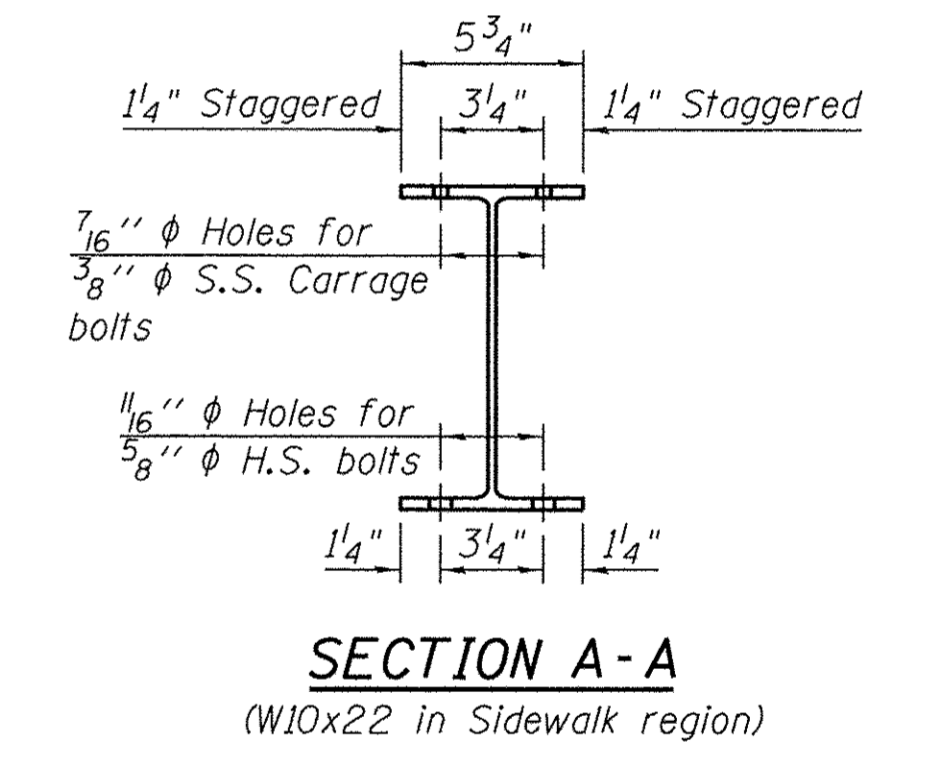
PLAN VIEW - FRAMING PLAN



INTERIOR BEAMS BOLT PATTERN



END BEAMS BOLT PATTERN



BILL OF MATERIAL

Item	Unit	Quantity
Furnishing and Erecting Structural Steel	L. Sum	1

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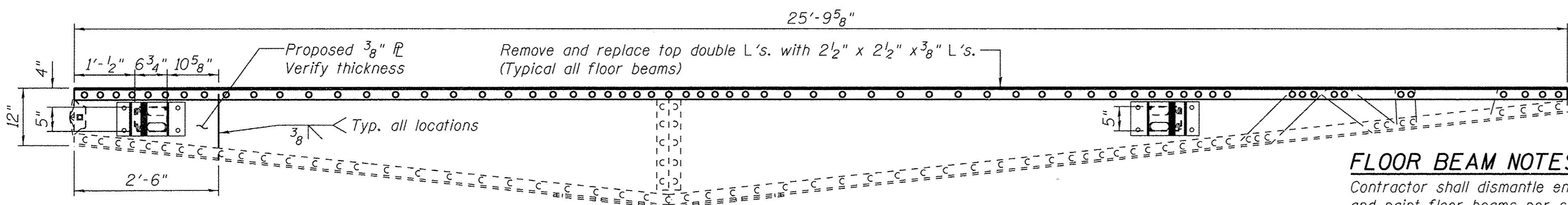
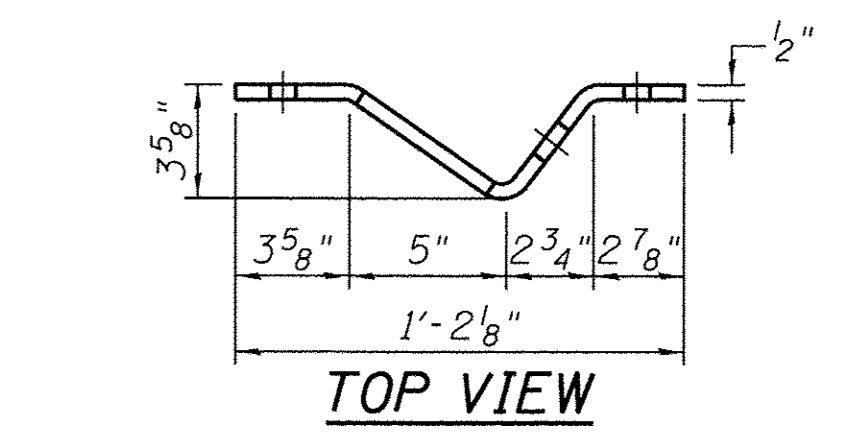
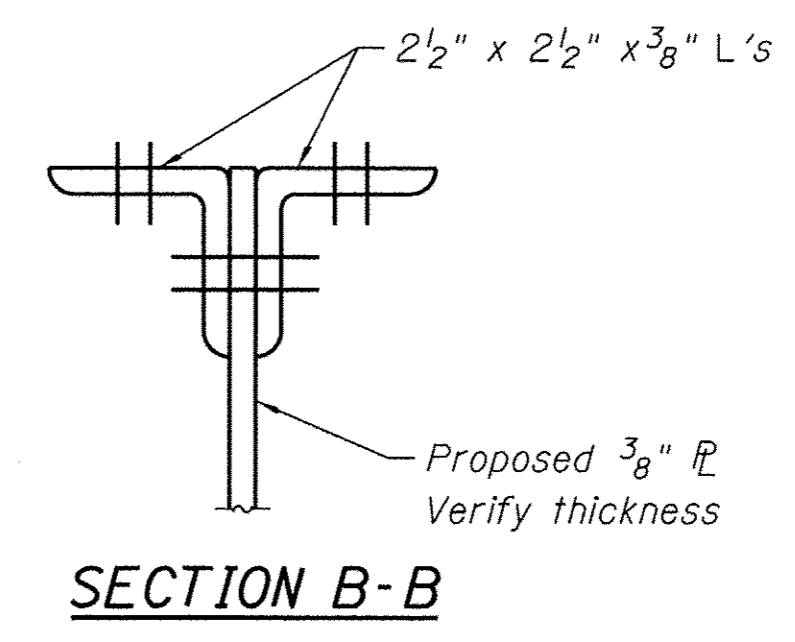
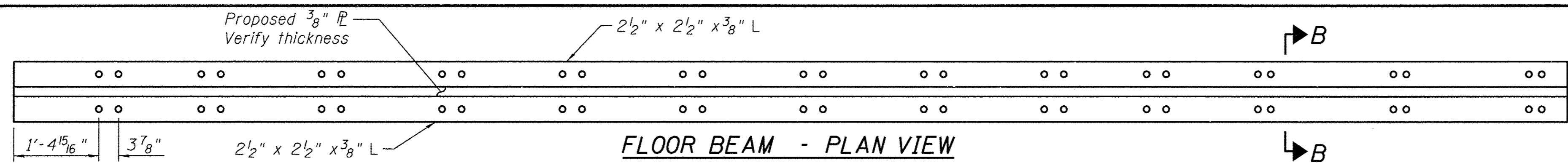
WILLET HOFMANN & ASSOCIATES INC
ENGINEERING ARCHITECTURE LAND SURVEYING
809 EAST 2ND STREET, DIXON, IL 61021-0367
T: 815-284-3381 DESIGN FIRM: #184-000918

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DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

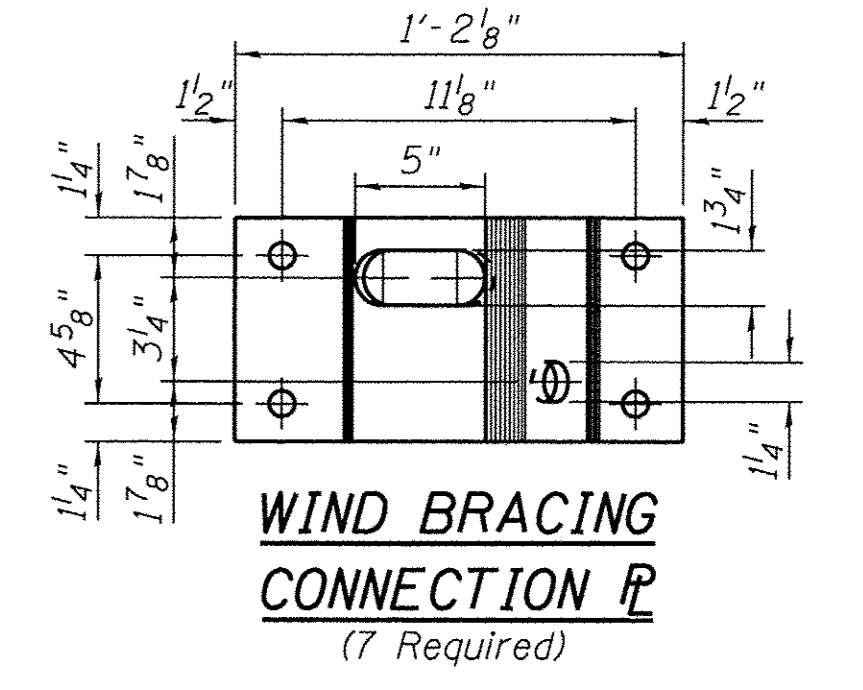
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 307 + 70

FRAMING PLAN
STRUCTURE NO. 008-7100
STRUCTURAL SHEET NO. 3 OF 8 SHEETS

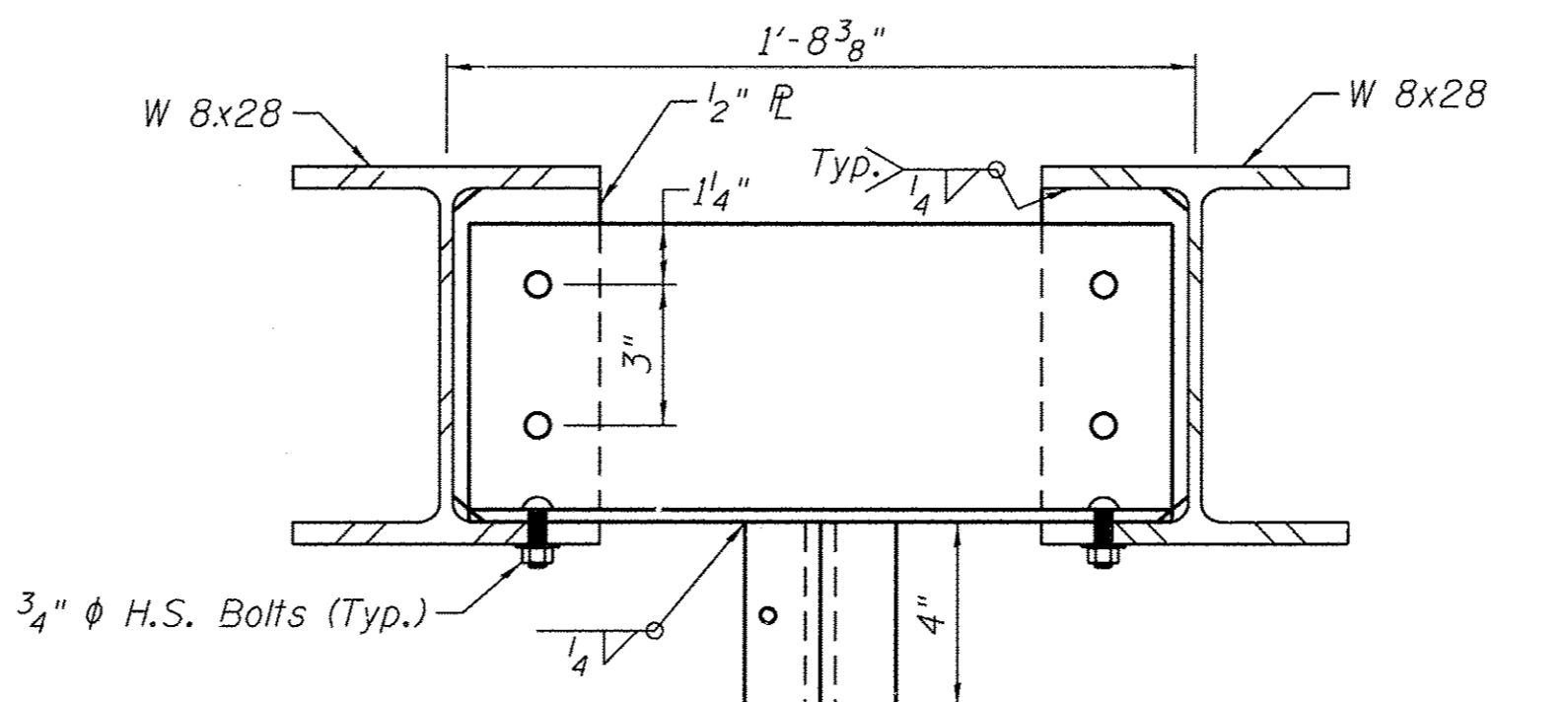
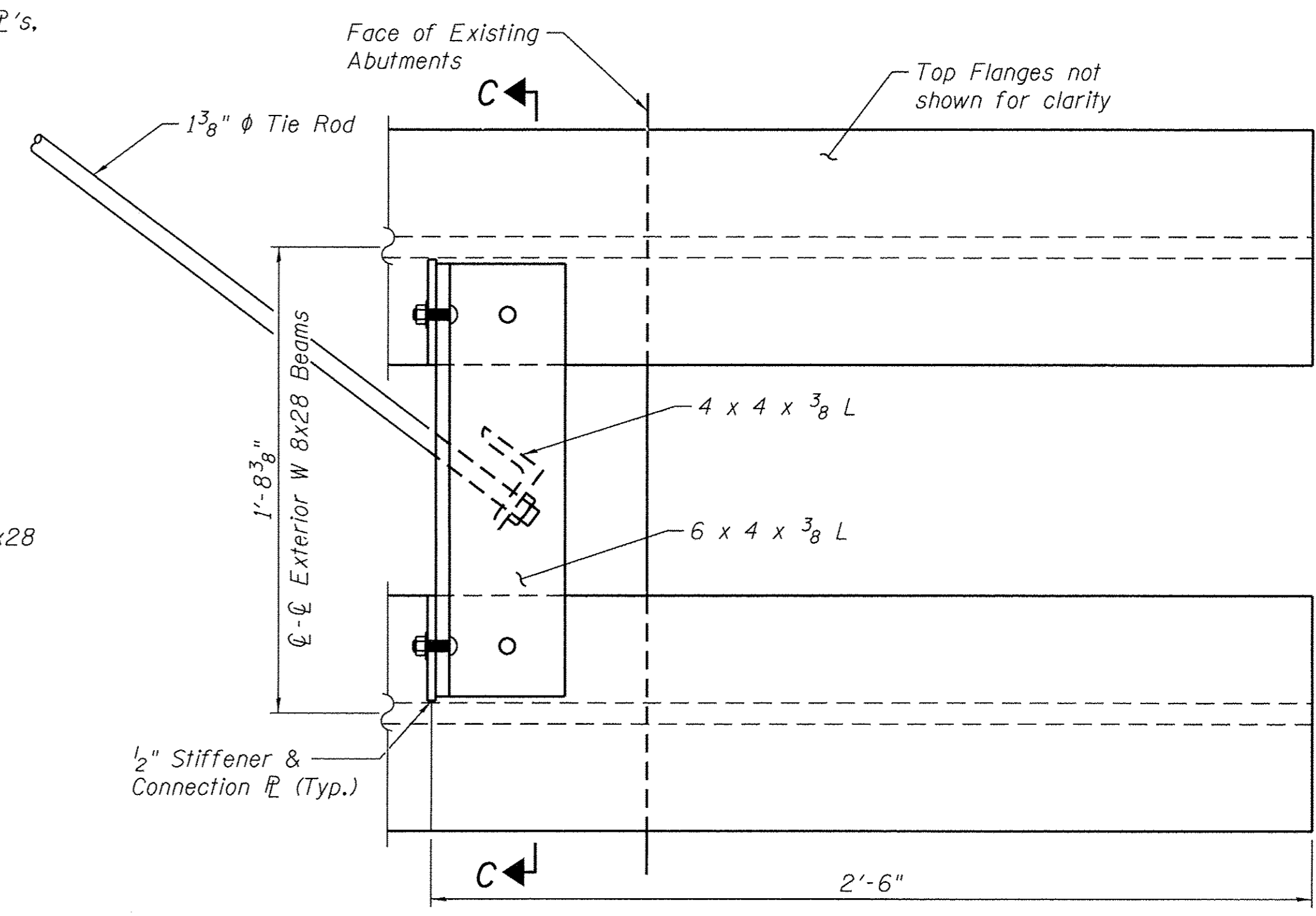
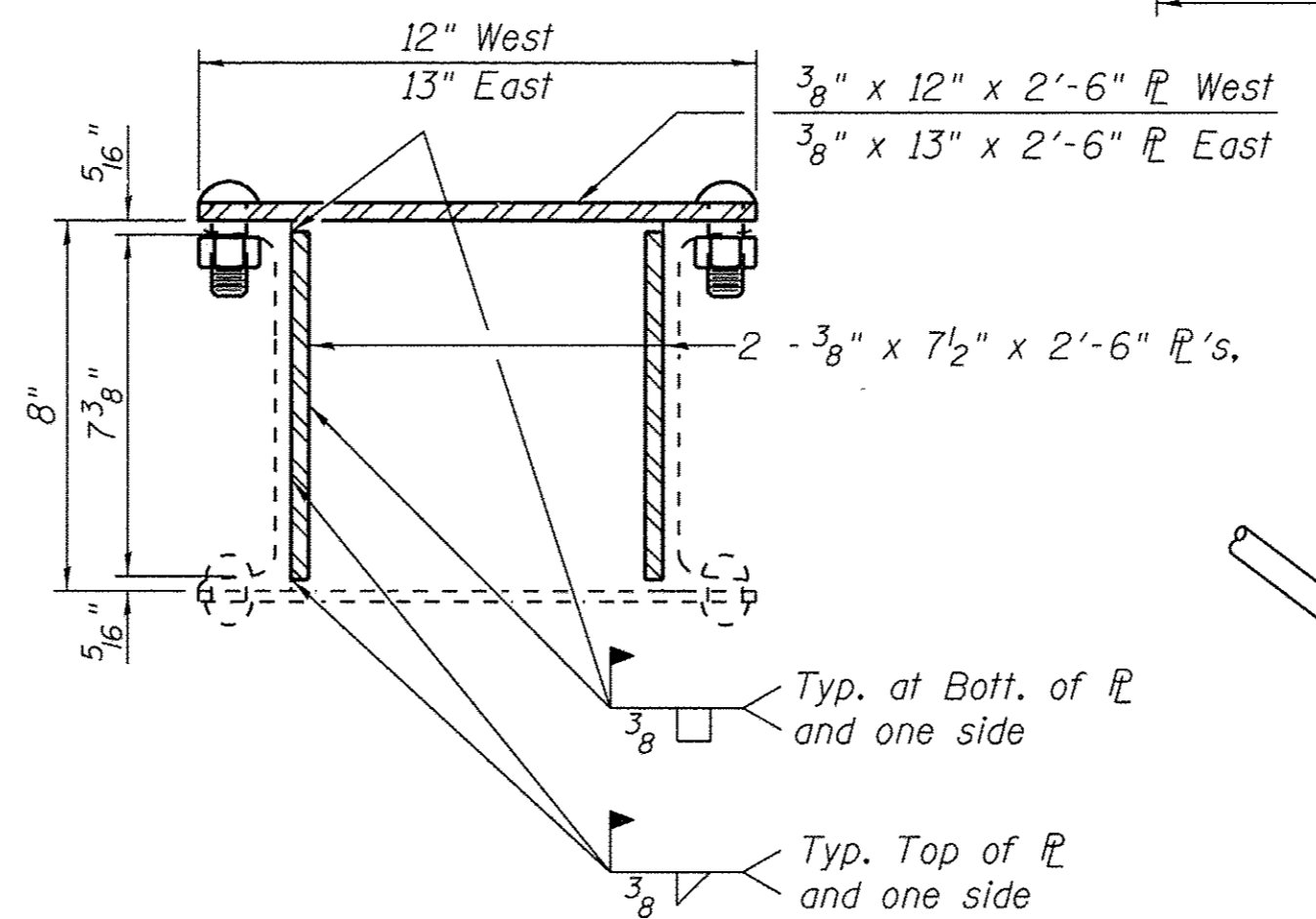
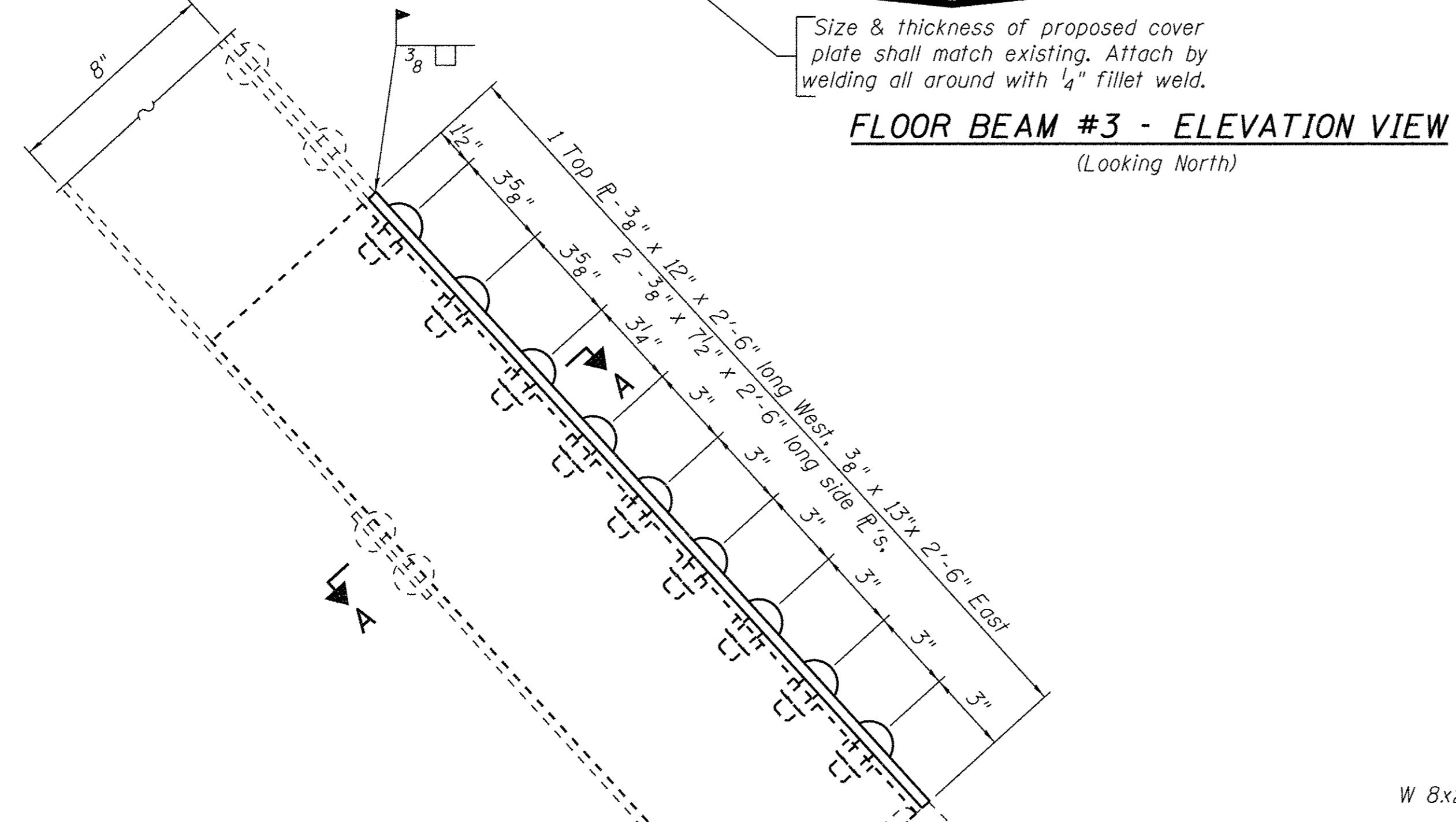
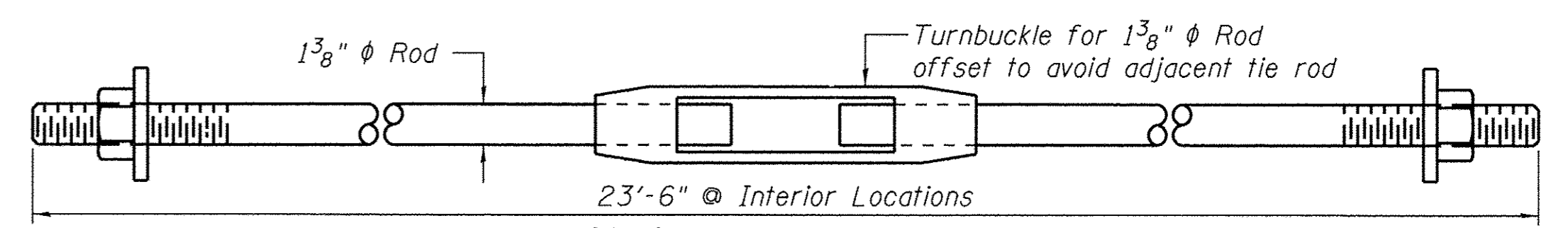
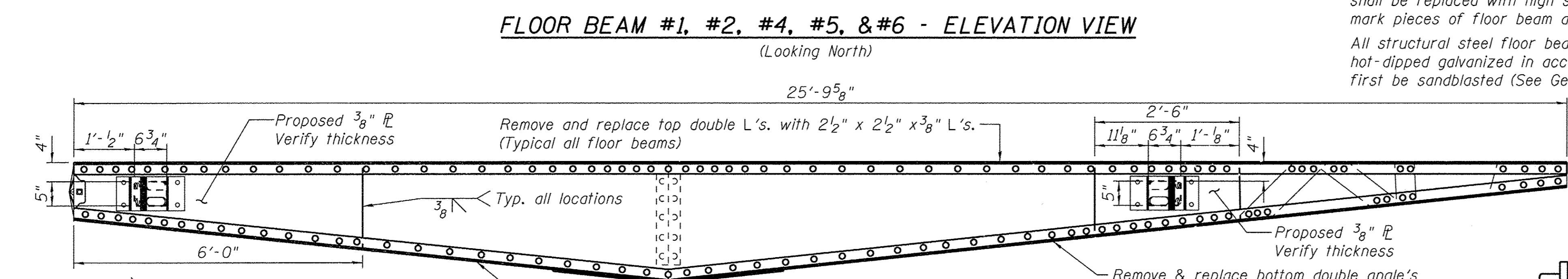
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	46
WHA# 1273D10			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BR05-0015(050)				



FLOOR BEAM NOTES:
 Contractor shall dismantle entire floor beam system (F.B. #1-#6). Then clean and paint floor beams per special provisions and repair as shown. All rivets shall be replaced with high strength bolts of same size. Contractor shall mark pieces of floor beam assembly prior to dismantling.
 All structural steel floor beams, wind bracing rods and connections shall be hot-dipped galvanized in accordance with AASHTO M232. Existing steel shall first be sandblasted (See General Notes).

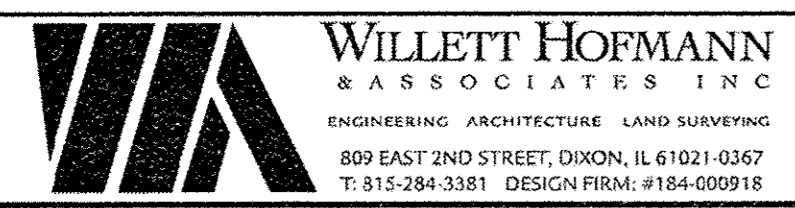


Replace 6 west connections and 1 east connection (Floor Beam #6). Contractor to verify dimensions from a connection plate that is in good condition.



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*Rod shall be transitioned from a square bar to a round bar in the last 12" of length. Tension Bars shall be replaced one at a time starting with the bar that is in the worst condition or has higher section loss. Work related to this detail shall be performed in lightest stage of rehabilitation load
 (Fix two (2) rods at NE bearing location only.)



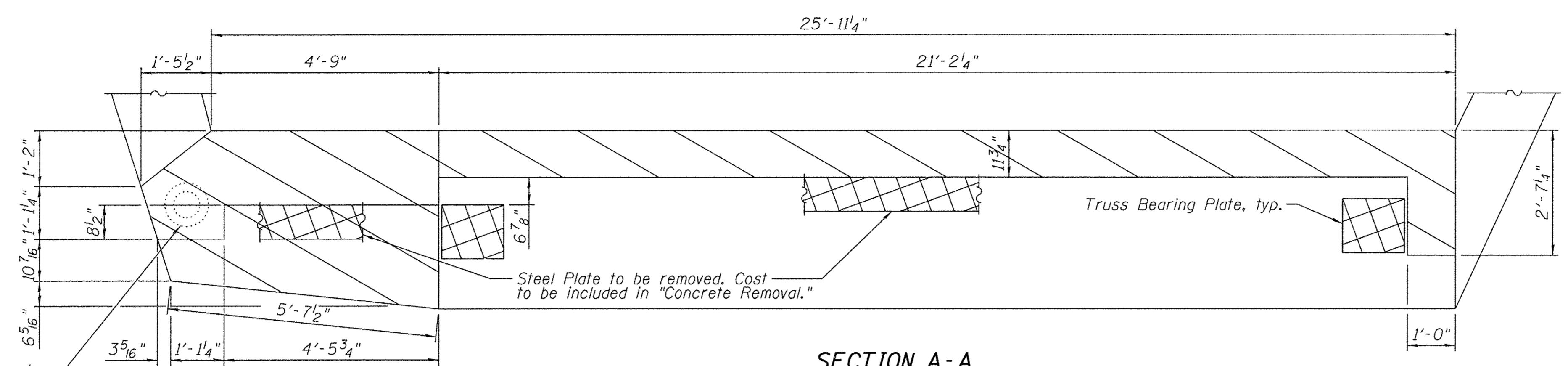
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CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 307 + 70

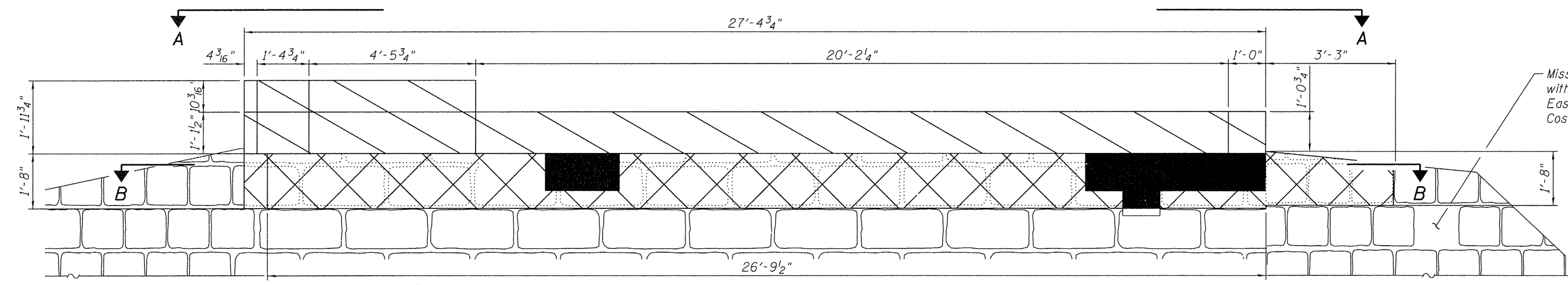
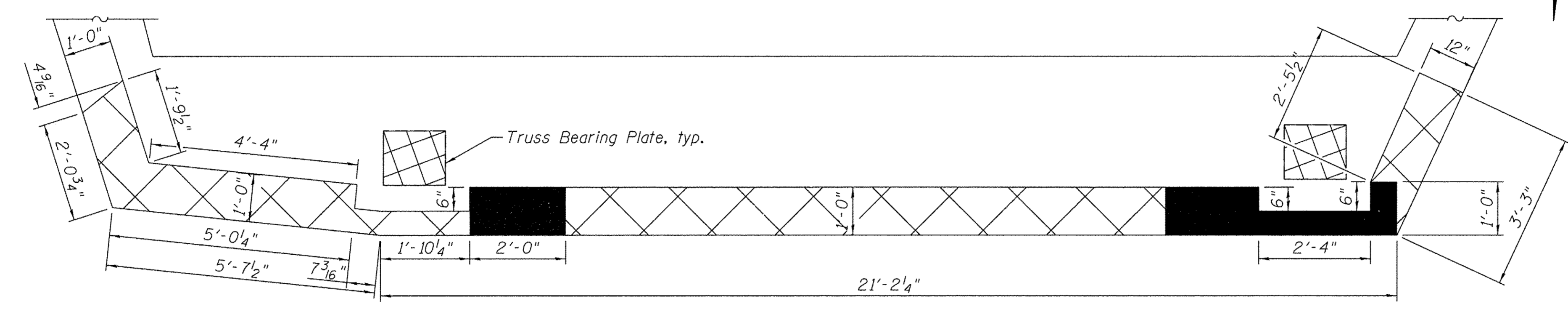
STRUCTURAL STEEL DETAILS
STRUCTRE NO. 008-6100
 STRUCTURAL SHEET NO. 4 OF 8 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	47
WHA# 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00150501				

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Existing rail post to be removed and reset after proposed concrete repairs are complete.



Missing stones shall be replaced with stones from the end of the East Wingwall that will be buried. Cost to be included in Tuckpointing.

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	3.6
Masonry Cleaning and Tuckpointing	L. Sum	0.5
Removing and Resetting Posts	Each	1

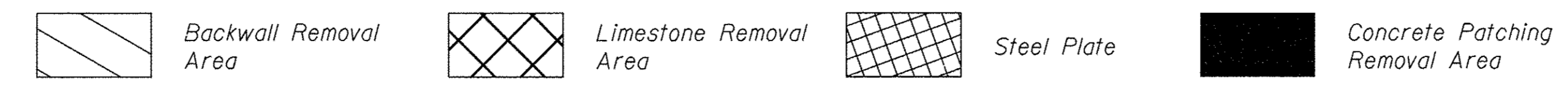
NOTES:

Limestone removal shall be included in the cost of "Concrete Removal".

Tuckpointing of existing limestone shall extend three feet below the existing ground line or top of rock, whichever comes first.

See Structural Sheet 6 of 8 for proposed concrete repairs.

LEGEND:



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

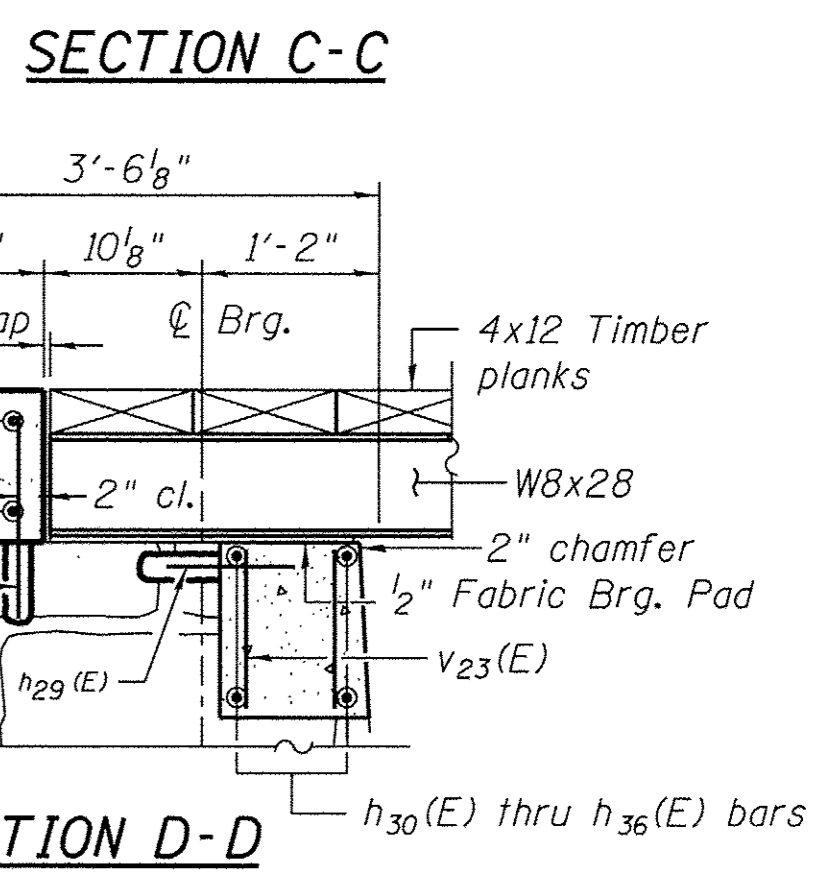
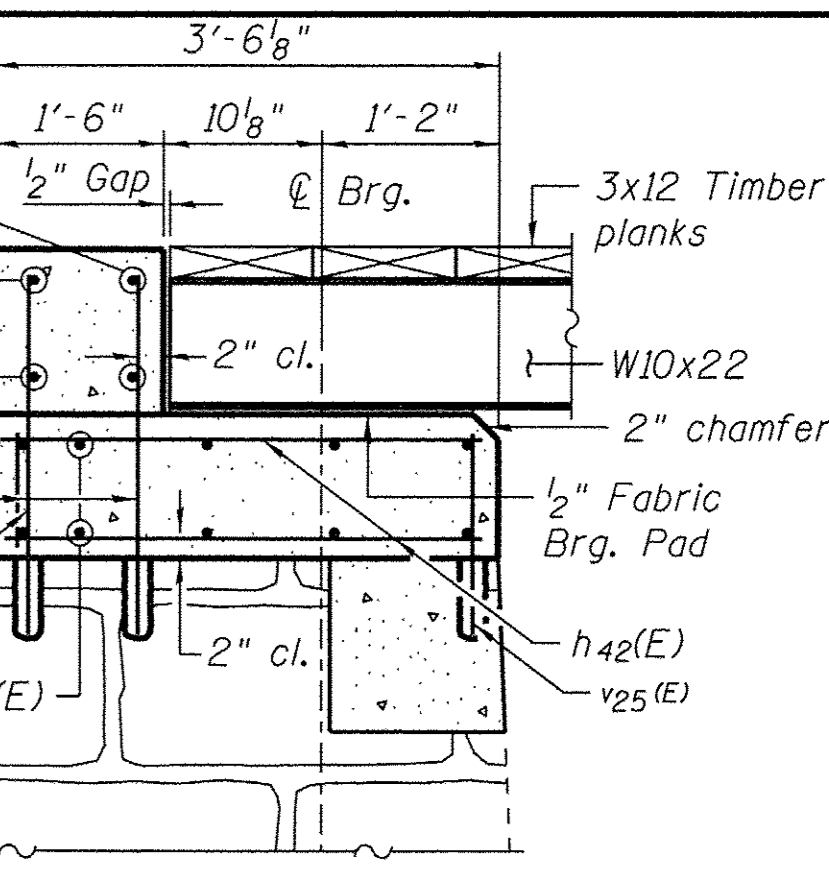
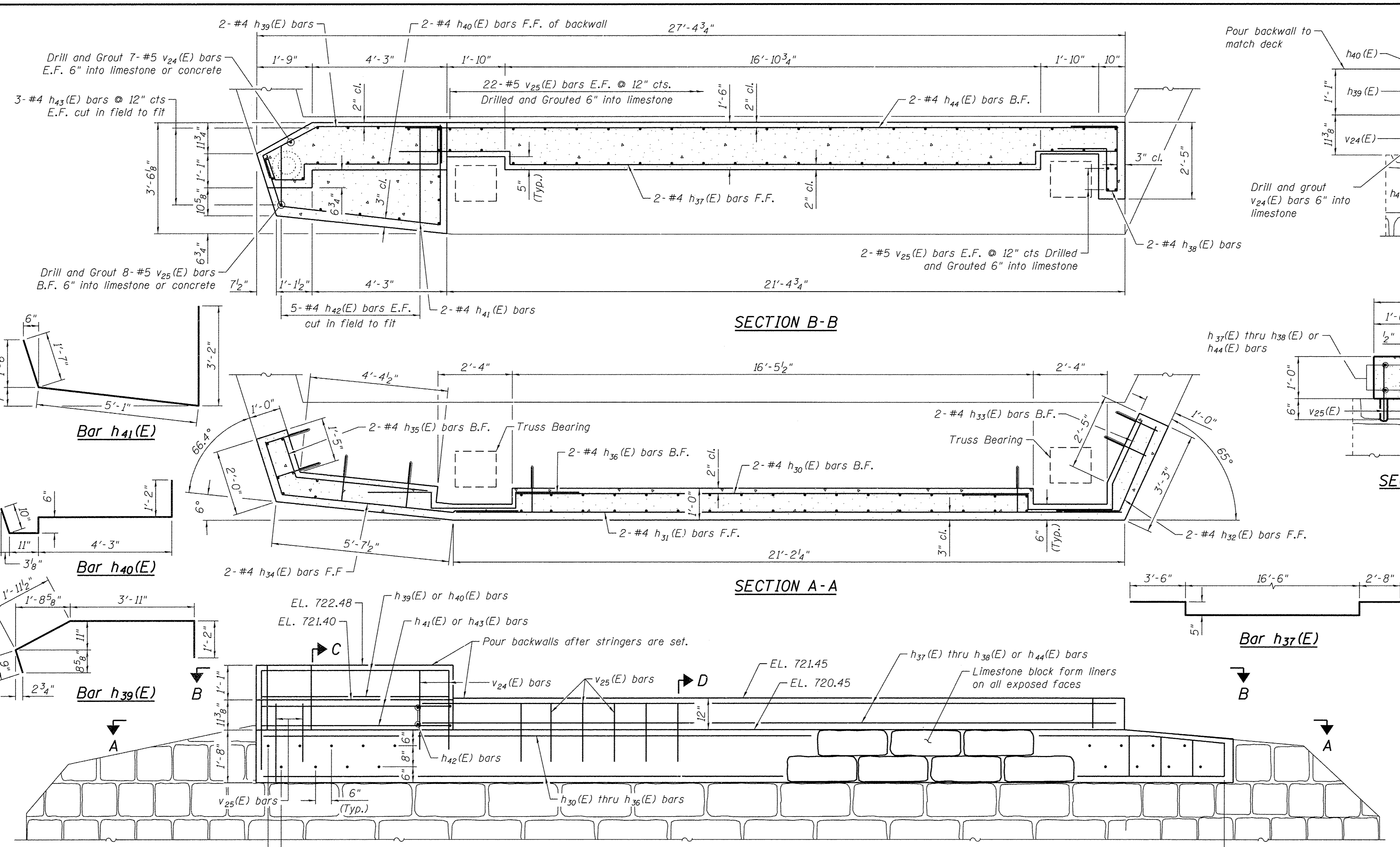
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DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 307 + 70

SOUTH ABUTMENT REMOVAL DETAILS
STRUCTURE NO. 008-6100
STRUCTURAL SHEET NO. 5 OF 8 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	48
WHA# 1273D10			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BR05-0015(050)				

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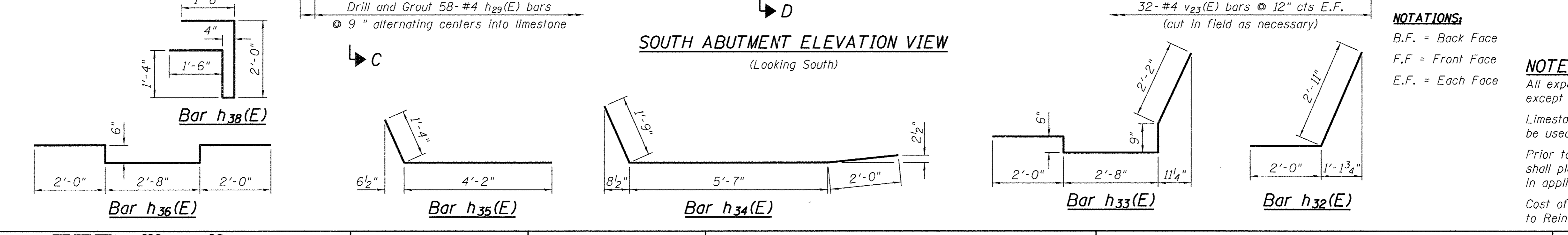


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h29(E)	58	#4	1'-5"	—
h30(E)	2	#4	16'-2"	—
h31(E)	2	#4	21'-0"	—
h32(E)	2	#4	4'-11"	—
h33(E)	2	#4	8'-1"	—
h34(E)	2	#4	9'-4"	—
h35(E)	2	#4	5'-6"	—
h36(E)	2	#4	7'-8"	—
h37(E)	2	#4	23'-6"	—
h38(E)	2	#4	6'-8"	—
h39(E)	2	#4	7'-10"	—
h40(E)	2	#4	7'-8"	—
h41(E)	2	#4	9'-10"	—
h42(E)	10	#4	3'-2"	—
h43(E)	6	#4	5'-8"	—
h44(E)	2	#4	22'-6"	—
v23(E)	64	#4	1'-4"	—
v24(E)	14	#5	2'-4"	—
v25(E)	56	#5	1'-4"	—
Structure Excavation		Cu. Yd.	3	
Concrete Structures		Cu. Yd.	3.9	
Reinforcement Bars, Epoxy Coated		Pound	469	
Granular Backfill For Structures		Cu. Yd.	3	

NOTATIONS:
 B.F. = Back Face
 F.F. = Front Face
 E.F. = Each Face

NOTES:
 All exposed edges shall have standard 3/4" chamfers, except as noted.
 Limestone block form liner shall be used on all exposed faces.
 Prior to steel stringer placement, contractor shall place leveling grout on top of limestone in applicable regions. Cost incidental.
 Cost of Drilling and Grouting shall be incidental to Reinforcement Bars, Epoxy Coated.



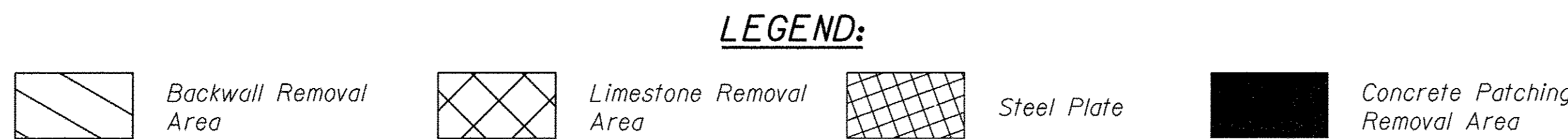
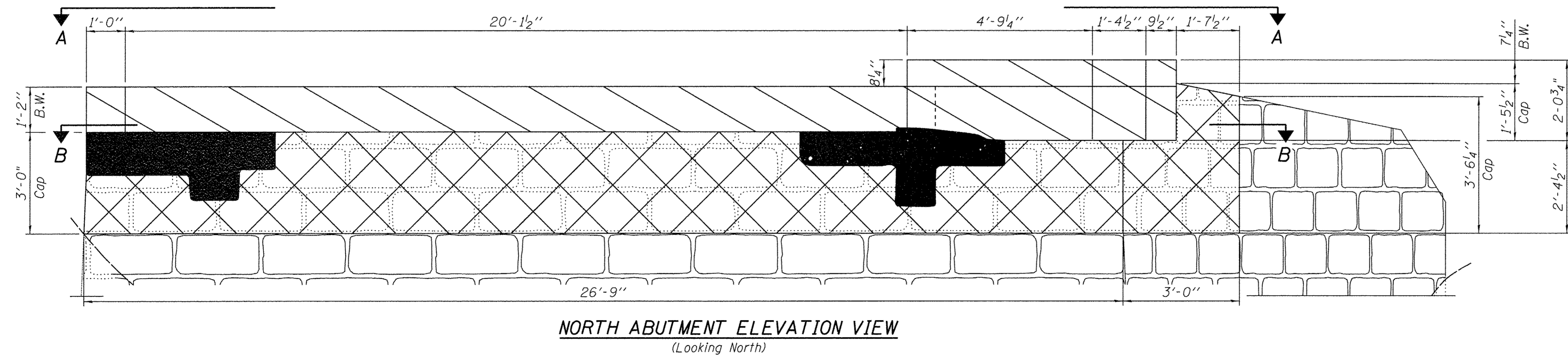
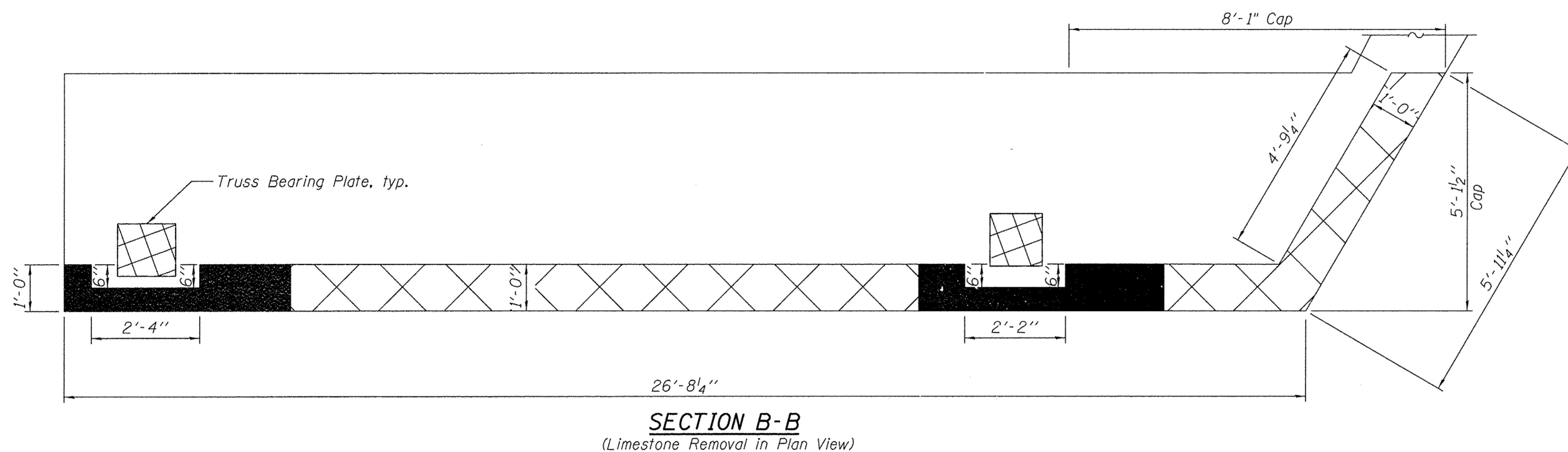
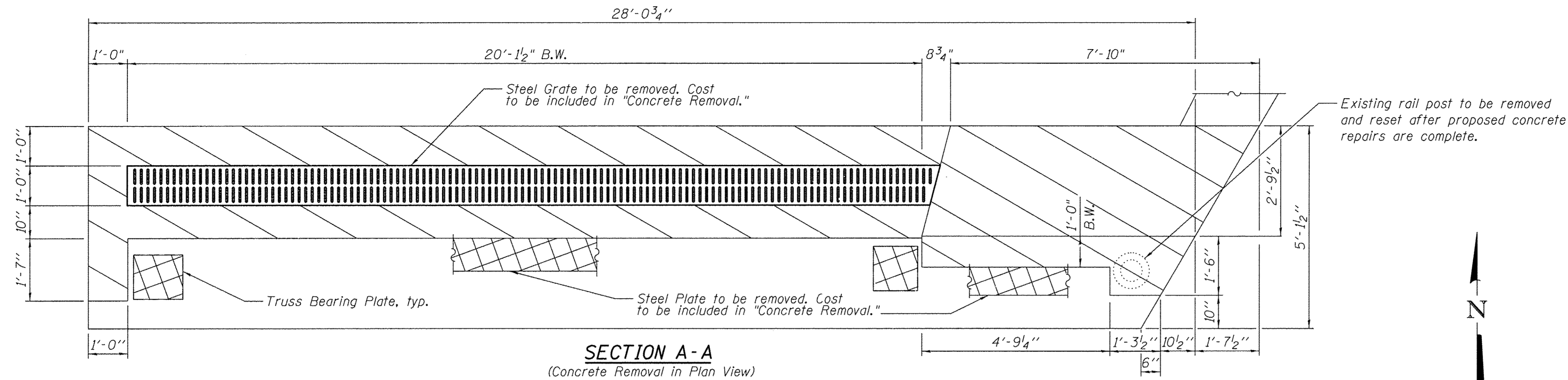
WILLET HOFMANN ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T. 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 307 + 70

SOUTH ABUTMENT REPAIR DETAILS
STRUCTURE NO. 008-6100
 STRUCTURAL SHEET NO. 6 OF 8 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	49
WHA# 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BR05-00150501				



BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	6.4
Masonry Cleaning and Tuckpointing	L. Sum	0.5
Removing and Resetting Posts	Each	1

NOTES:

B.W. - Backwall

Limestone removal shall be included in the cost of "Concrete Removal".

Tuckpointing of existing limestone shall extend three feet below the existing ground line or top of rock, whichever comes first.

See Structural Sheet 6 of 8 for proposed concrete repairs.

FILE: S:\PROJECTS\2018\1273018_Carroll\County\Galena.St.BR\DESIGN\STRUCT\Drawings\Historic Structure\1273018_North Abutment Removal Details_7.dgn

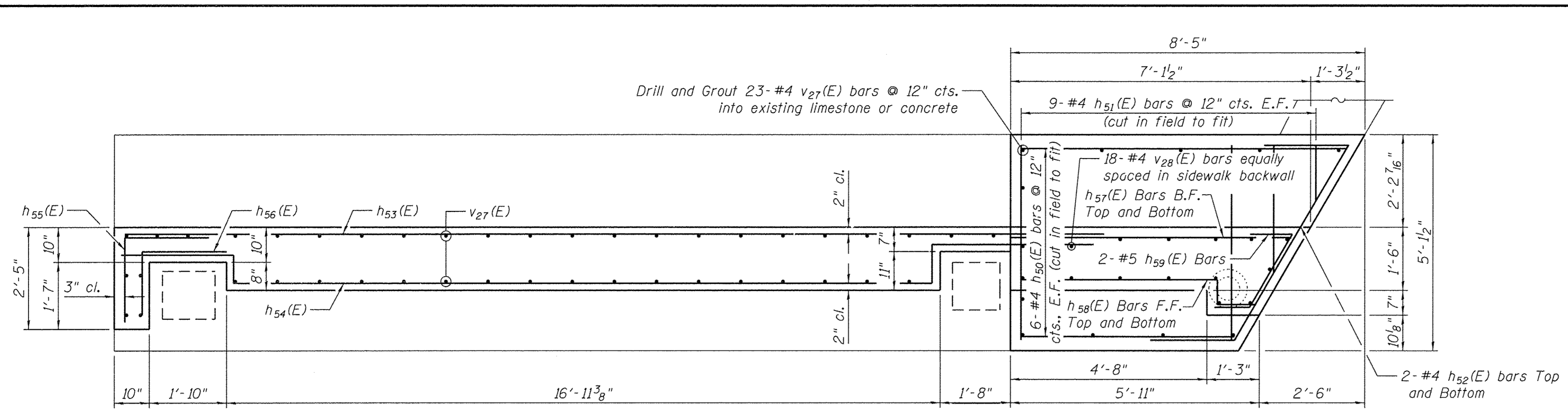
WILLET HOFMANN ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T. 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

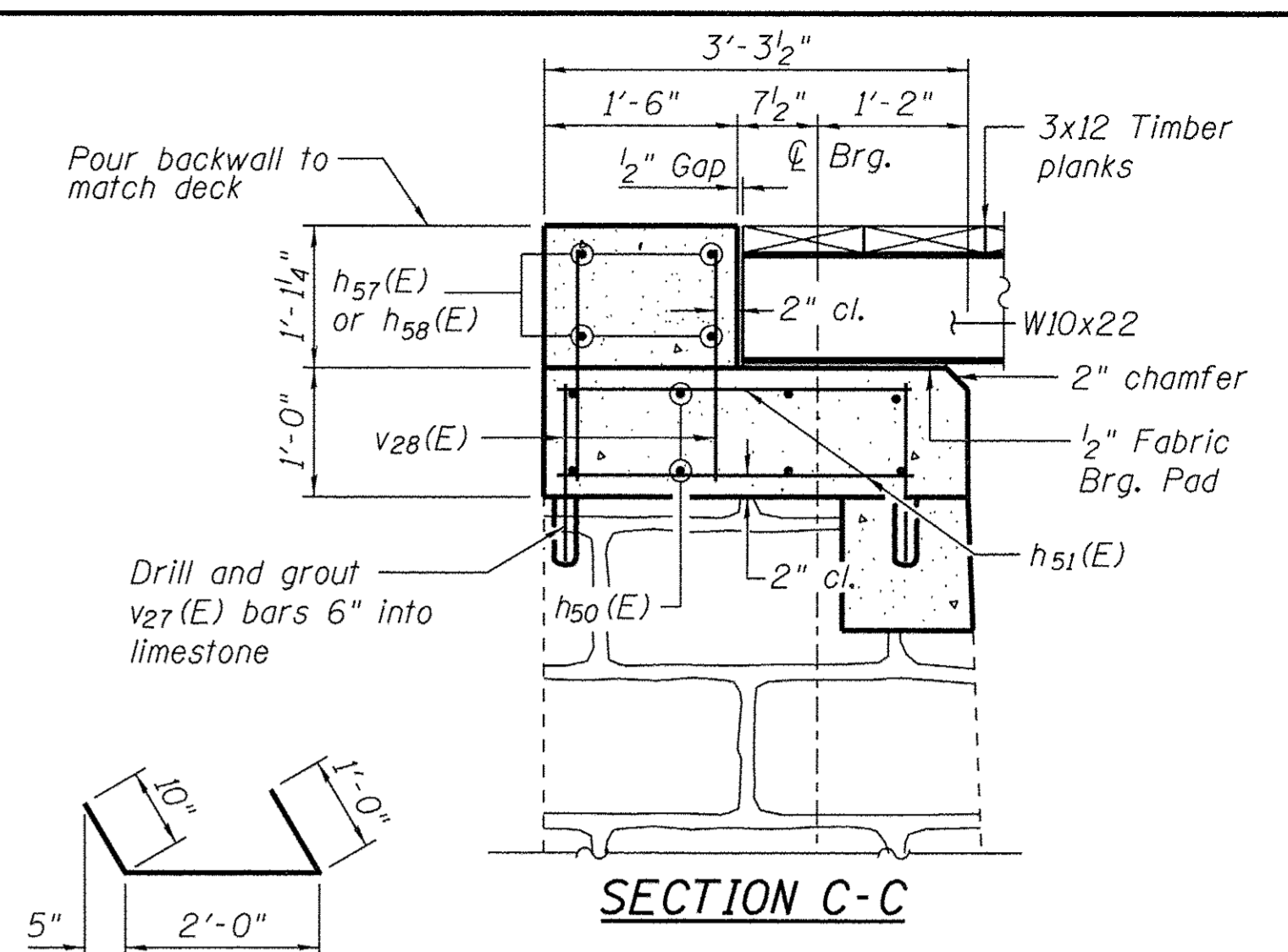
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 307 + 70

NORTH ABUTMENT REMOVAL DETAILS
STRUCTURE NO. 008-6100
 STRUCTURAL SHEET NO. 7 OF 8 SHEETS

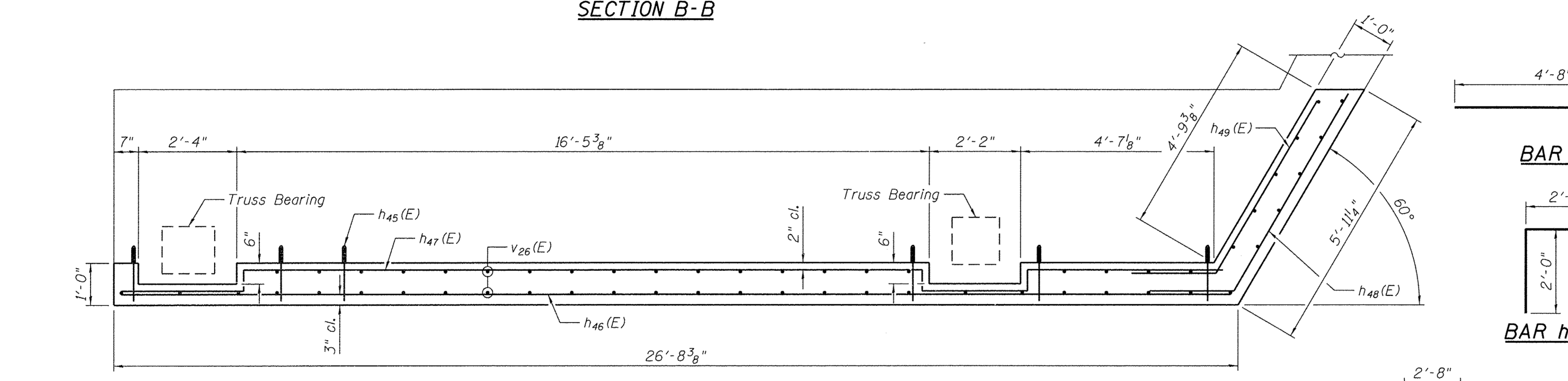
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	50
WHA# 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-0015(050)				



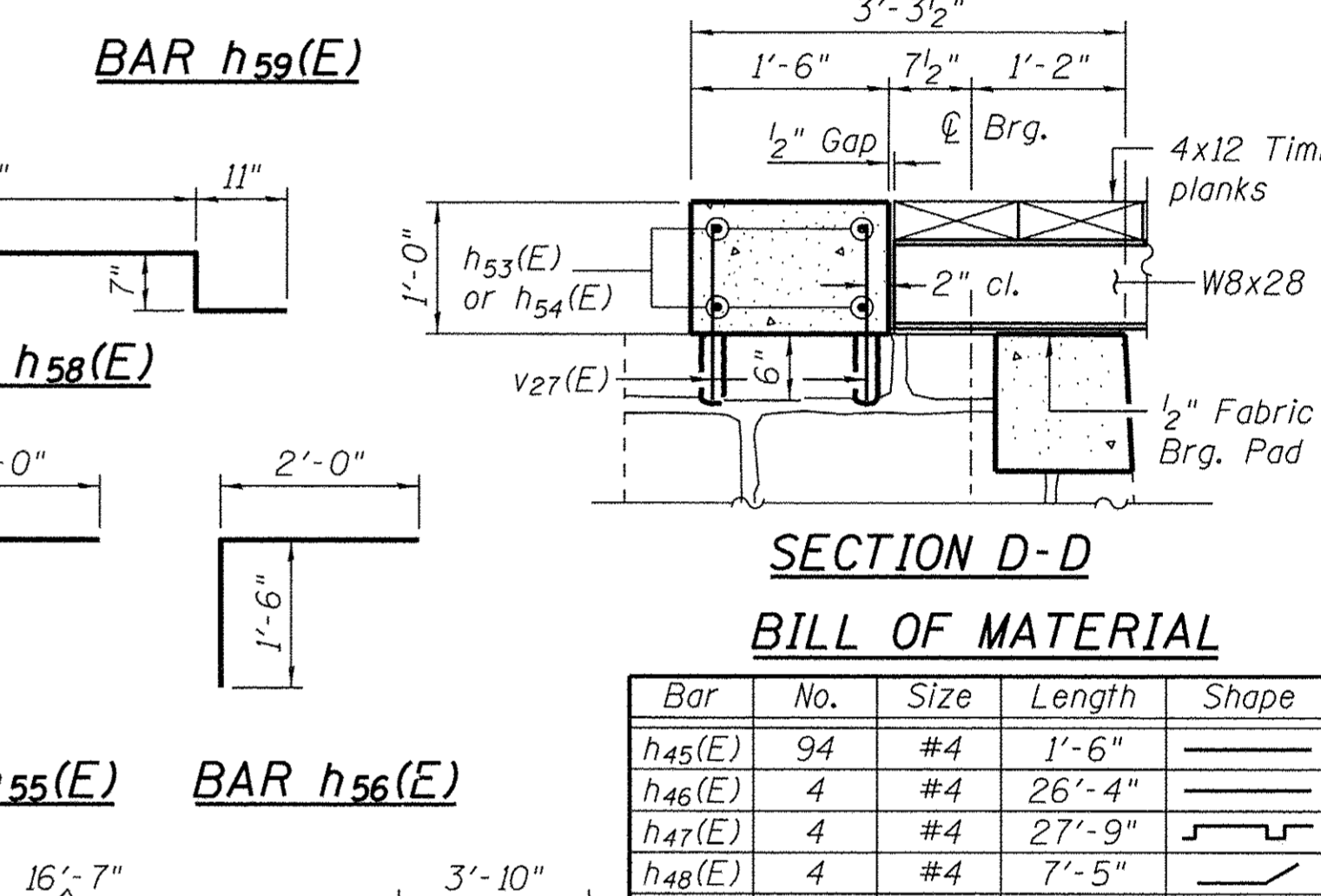
SECTION B-B



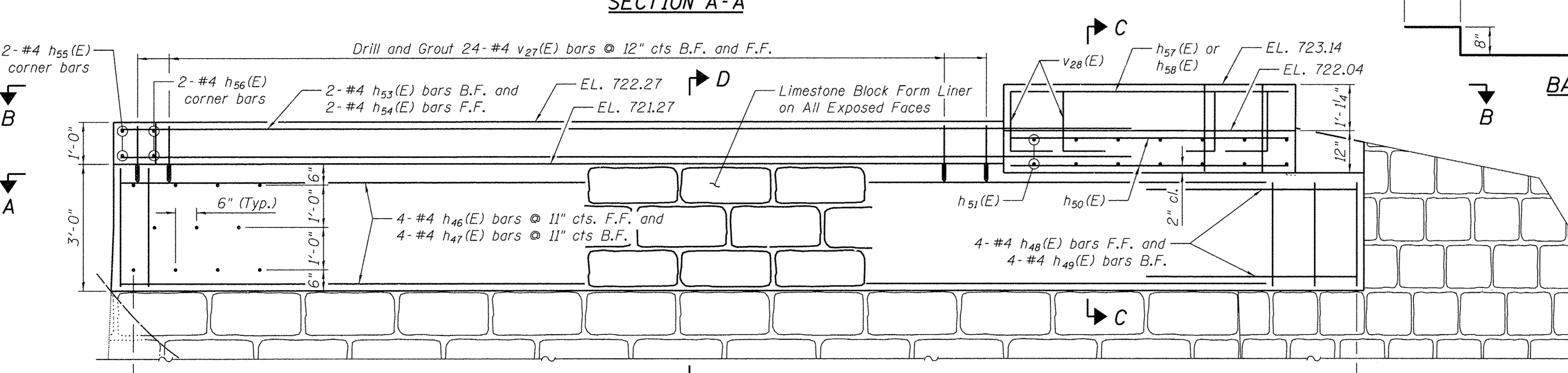
SECTION C-C



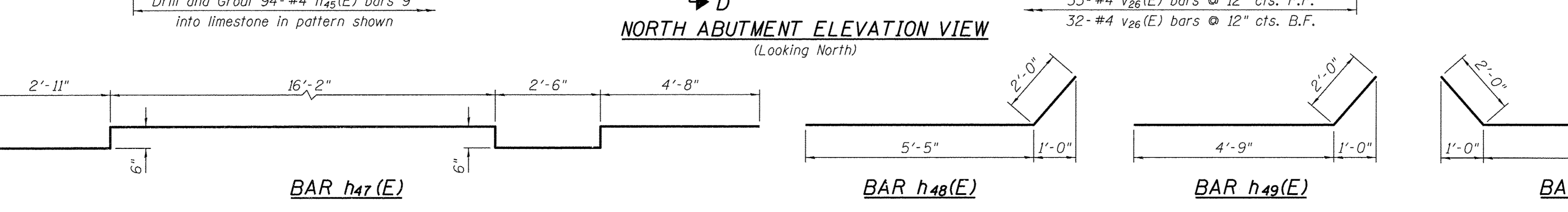
SECTION A-A



SECTION D-D



NORTH ABUTMENT ELEVATION VIEW (Looking North)



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h45(E)	94	#4	1'-6"	—
h46(E)	4	#4	26'-4"	—
h47(E)	4	#4	27'-9"	┌
h48(E)	4	#4	7'-5"	┌
h49(E)	4	#4	6'-9"	┌
h50(E)	12	#4	8'-0"	—
h51(E)	18	#4	4'-8"	—
h52(E)	2	#4	9'-4"	┌
h53(E)	2	#4	23'-3"	—
h54(E)	2	#4	24'-8"	┌
h55(E)	2	#4	4'-0"	┌
h56(E)	2	#4	3'-6"	┌
h57(E)	2	#4	6'-8"	—
h58(E)	2	#4	6'-3"	—
h59(E)	2	#4	3'-10"	┌
v26(E)	65	#4	2'-8"	—
v27(E)	71	#4	1'-4"	—
v28(E)	18	#4	2'-5"	┌
Structure Excavation		Cu. Yd.	4	
Concrete Structures		Cu. Yd.	6.1	
Reinforcement Bars, Epoxy Coated		Pound	714	
Granular Backfill for Structures		Cu. Yd.	3	

NOTATIONS:
 B.F. = Back Face
 F.F. = Front Face
 E.F. = Each Face

NOTES:
 All exposed edges shall have standard 3/4" chamfers, except as noted.
 Limestone block form liner shall be used on all exposed faces.
 Prior to steel stringer placement, contractor shall place leveling grout compound on top of limestone in applicable regions. Cost incidental.
 Cost of Drilling and Grouting shall be incidental to "Reinforcement Bars, Epoxy Coated."

WILLET HOFMANN & ASSOCIATES INC.
 ENGINEERING ARCHITECTURE LAND SURVEYING
 809 EAST 2ND STREET, DIXON, IL 61021-0367
 T. 815-284-3381 DESIGN FIRM: #164-000918

DESIGNED - BKC	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - BKC	REVISED -

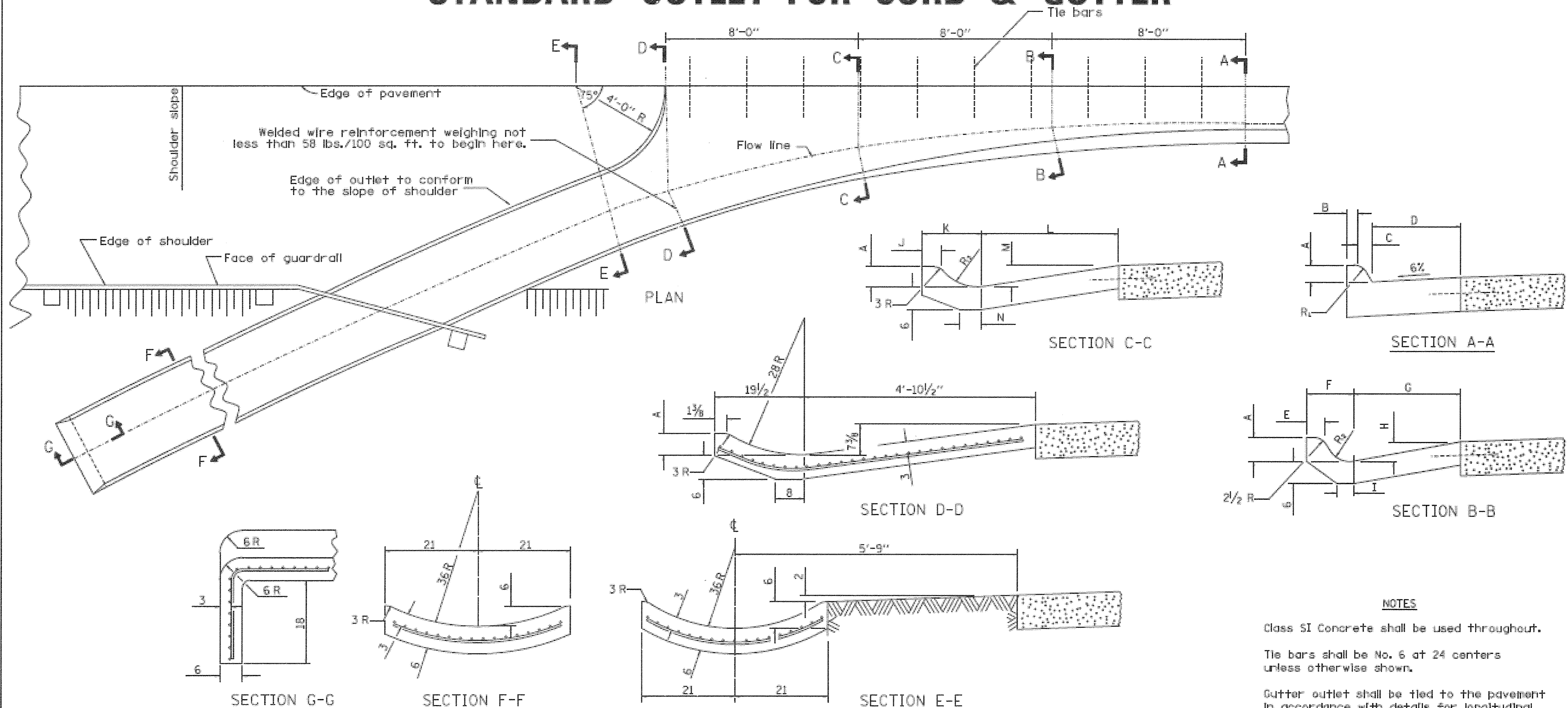
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 307+70

NORTH ABUTMENT REPAIR DETAILS
STRUCTURE NO. 008-6100
 STRUCTURAL SHEET NO. 8 OF 8 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	51
WHA # 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-0018(050)				

FILE = S:\PROJECTS\2010\1273010_Carroll\1. County\Galena St BR DESIGN\STRUCT\Drawings\Historic Structure\1273010_North Abutment Repair_Details_8.dgn

STANDARD OUTLET FOR CURB & GUTTER



NOTES

Class SI Concrete shall be used throughout.

Tie bars shall be No. 6 at 24 centers unless otherwise shown.

Gutter outlet shall be tied to the pavement in accordance with details for longitudinal construction joint shown on Standard 42000L.

If the average grade of pavement for the distance from Section A-A to D-D exceeds 2%, this distance shall be increased 6' for each 1% increase in grade.

When curb and gutter is constructed adjacent to flexible pavement, a 1 expansion joint shall be installed at construction joints.

All dimensions are in inches unless otherwise shown.

QUANTITY

For Section F-F =

0.069 cu. yds.
concrete per ft.

TYPE OF CURB & GUTTER	TABLE OF DIMENSIONS																CONCRETE QUANTITY A-A TO E-E AND CURTAIN WALL FOR 9 PAV'T (CU YDS)	CONCRETE QUANTITY A-A TO E-E AND CURTAIN WALL FOR 10 PAV'T (CU YDS)	
	A	SECTION A-A				SECTION B-B				SECTION C-C				R ₁	R ₂	R ₃			
		B	C	D	E	F	G	H	J	K	L	M	N						
B-6.12	6	6	1	12	3	7 1/8	13 3/4	2 3/4	4	3	12 1/2	26 1/2	5	6	1	2	8	1.87	1.89
B-6.18	6	6	1	18	3 3/4	9 1/4	22	3	5	3 1/2	14 1/4	28 3/4	5 1/8	5 1/2	1	4	10	2.18	2.20
M-4.06	4	3	4	6	3	9 1/2	10 1/2	2	4	3	13	25	3	6	3	5	11	1.78	1.79
M-4.12	4	3	4	12	3 1/2	9 3/4	13 3/4	2 3/4	6	3	13 1/2	26 1/2	5	6	3	5	9	1.89	1.91
M-4.18	4	3	4	18	3 1/2	9 1/4	22	3	5	3 1/2	14 1/4	28 3/4	5 1/8	5 1/2	3	4	10	2.11	2.13
M-4.24	4	3	4	24	5	11 1/2	26	3 3/8	4	3 3/4	15	38	5 3/8	5	3	6	12	2.34	2.37
M-6.06	6	2	6	6	2 1/4	9 3/4	10 1/2	2	4	2 1/2	13	25	3	6	2	5	10	1.84	1.86
M-6.12	6	2	6	12	3 1/2	8 1/8	13 3/4	2 3/4	6	3	13 1/2	26 1/2	5	6	2	2	9	1.96	1.98
M-6.18	6	2	6	18	3 1/2	9 3/8	22	3	5	3 1/2	14 1/4	28 3/4	5 1/8	5 1/2	2	4	10	2.18	2.20
M-6.24	6	2	6	24	5 1/8	11	26	3 3/8	4	3 3/4	17 1/4	38	5 3/8	5	2	3 1/4	16	2.46	2.49



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

DESIGNED - LGN	REVISED - 01-05-16
CHECKED - GFS	REVISED -
DRAWN - LGN	REVISED -
CHECKED - GFS	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

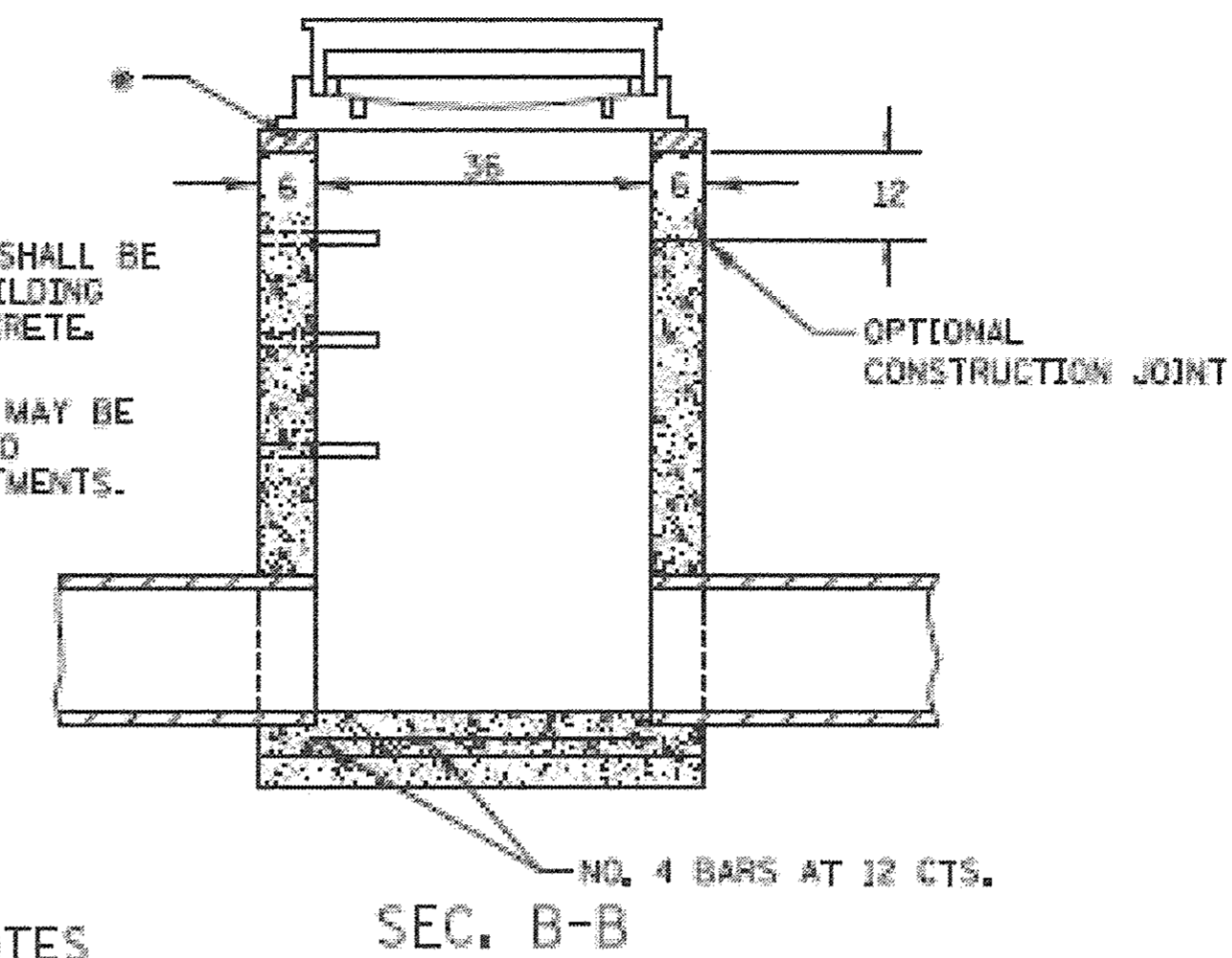
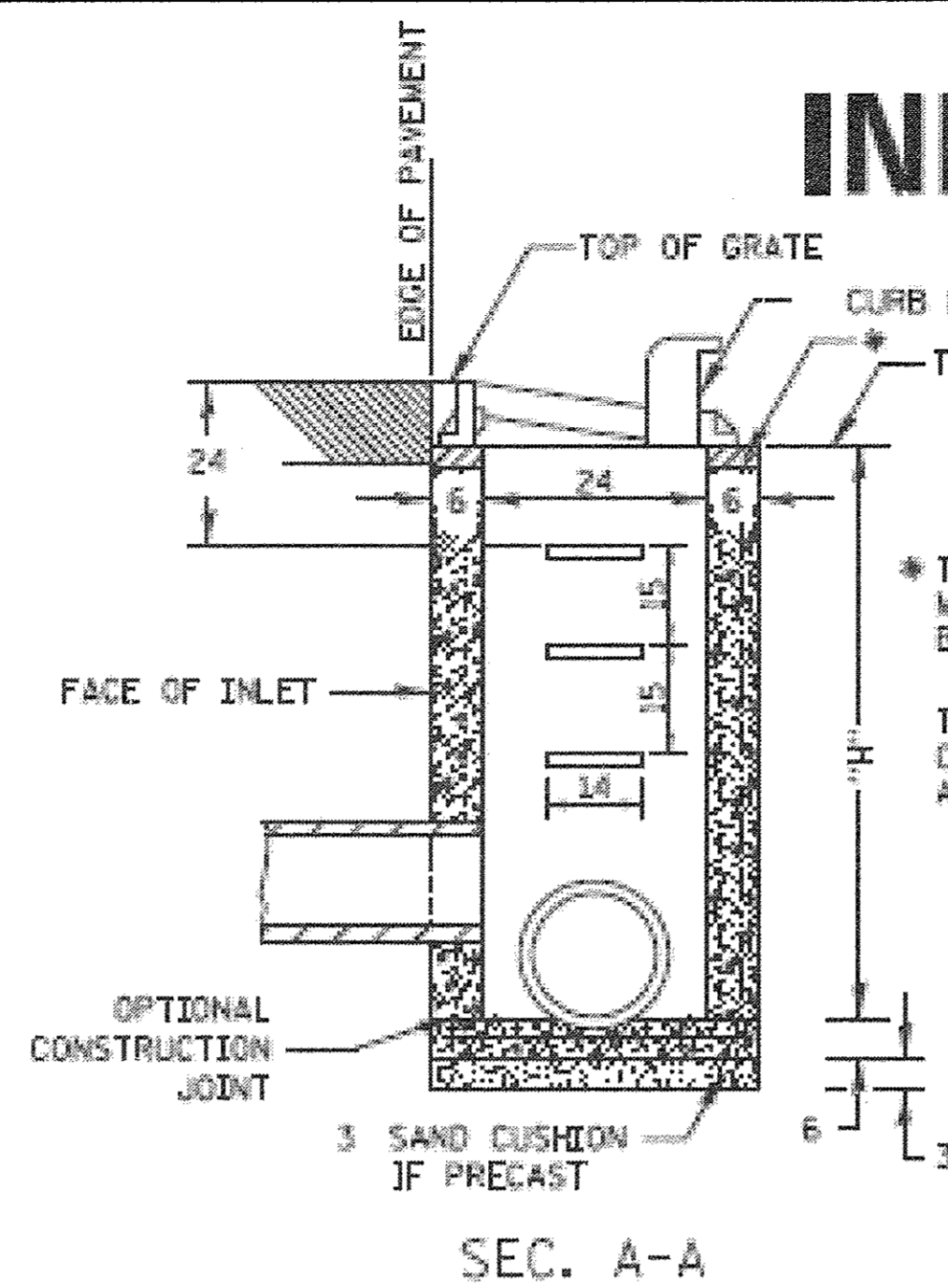
REGION 2 /DISTRICT 2 STANDARD
STANDARD OUTLET FOR CURB & GUTTER 5.1

SHEET NO. 1 OF 1 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	52
WHA* 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00150501				

FILE - S:\PROJECTS\2010\1273D10\Carroll County\Galena St BR\DESIGN\STRUCT\CD\Drawings\1273D10 District 2 Standards Sheet.dgn

INLETS, SPECIAL



* THE WALL ADJUSTMENTS SHALL BE MADE WITH CONCRETE BUILDING BRICK OR CLASS SI CONCRETE.
THE HEIGHT OF THE BOX MAY BE CONSTRUCTED 6 SHORT TO ALLOW FOR FIELD ADJUSTMENTS.

NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.

EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

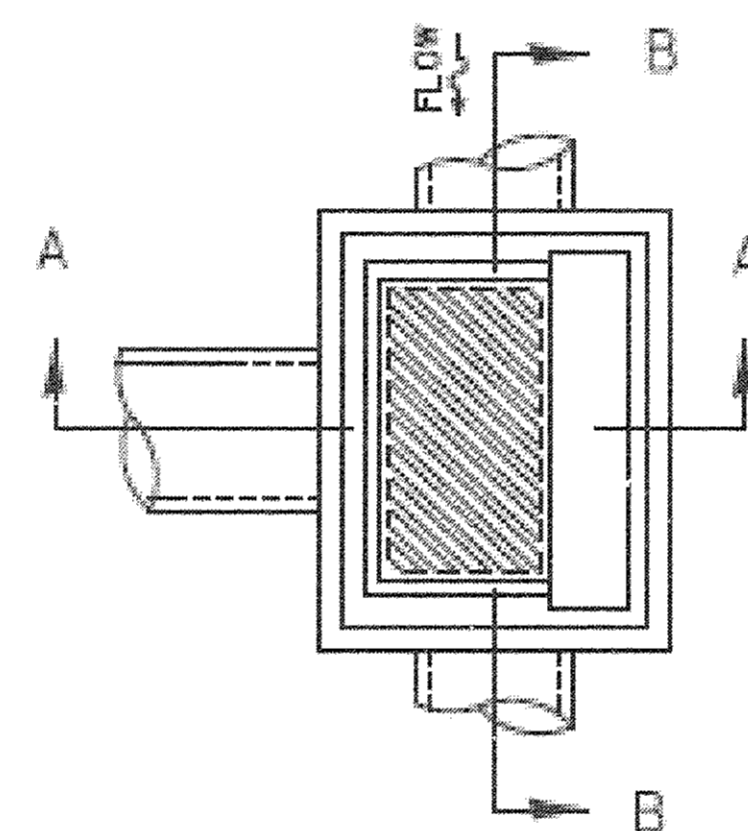
THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

ALL JOISTS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

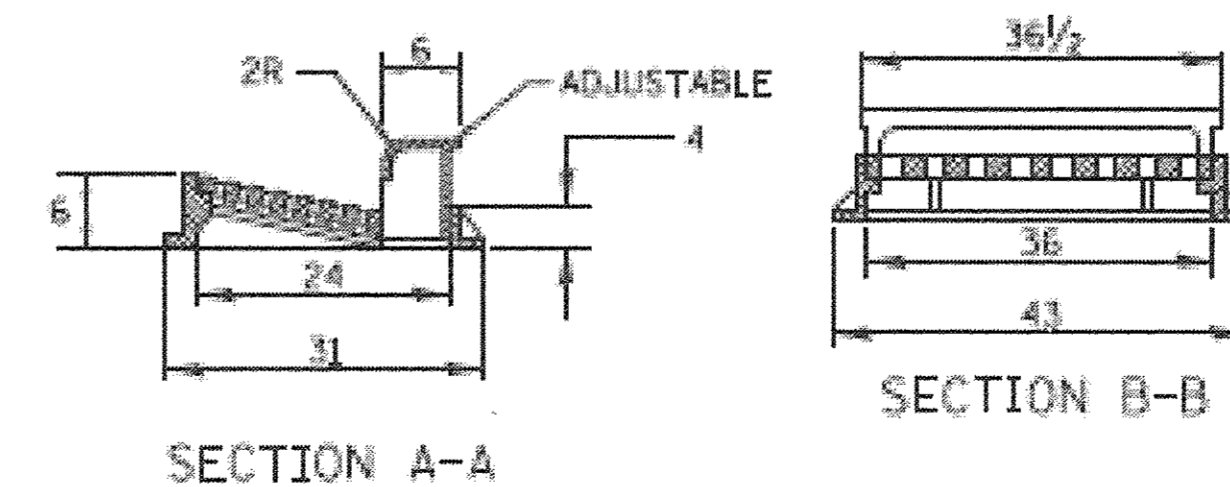
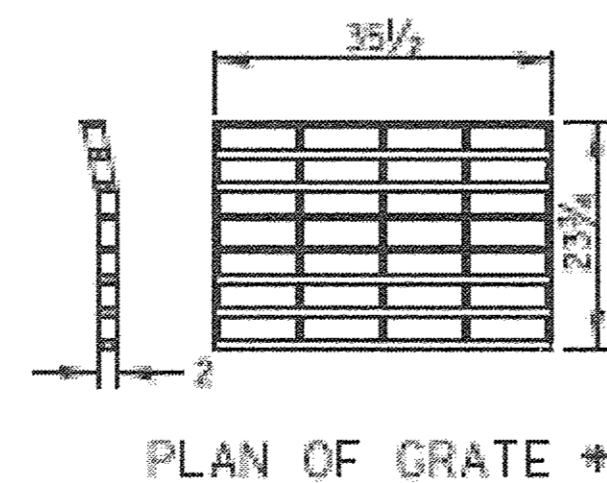
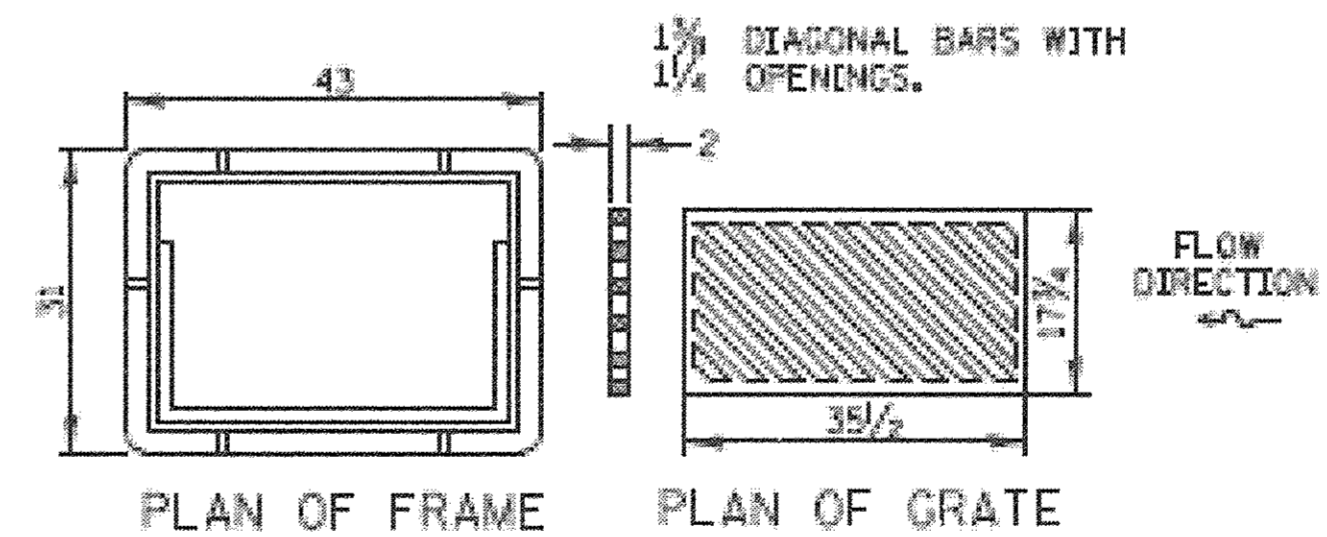
WEIGHT OF CAST IRON FRAME & GRATE = 530 lbs. ± . STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 5 FT.

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH ARTICLES 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLETS, SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.



DETAIL OF FRAME & GRATE



* THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

FILE = S:\PROJECTS\2010\1273010_Carroll\County_Galena_St_Brandesign\STRUCT\Drawings\1273010_District 2 Standards_Sheet.dgn



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DRAWN - LGN	REVISED -
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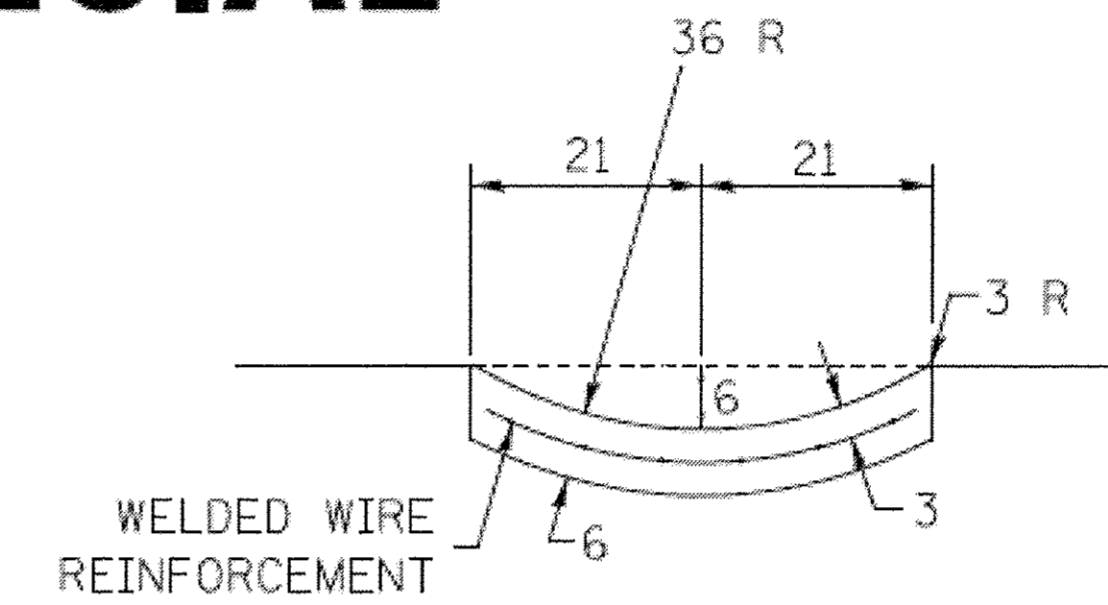
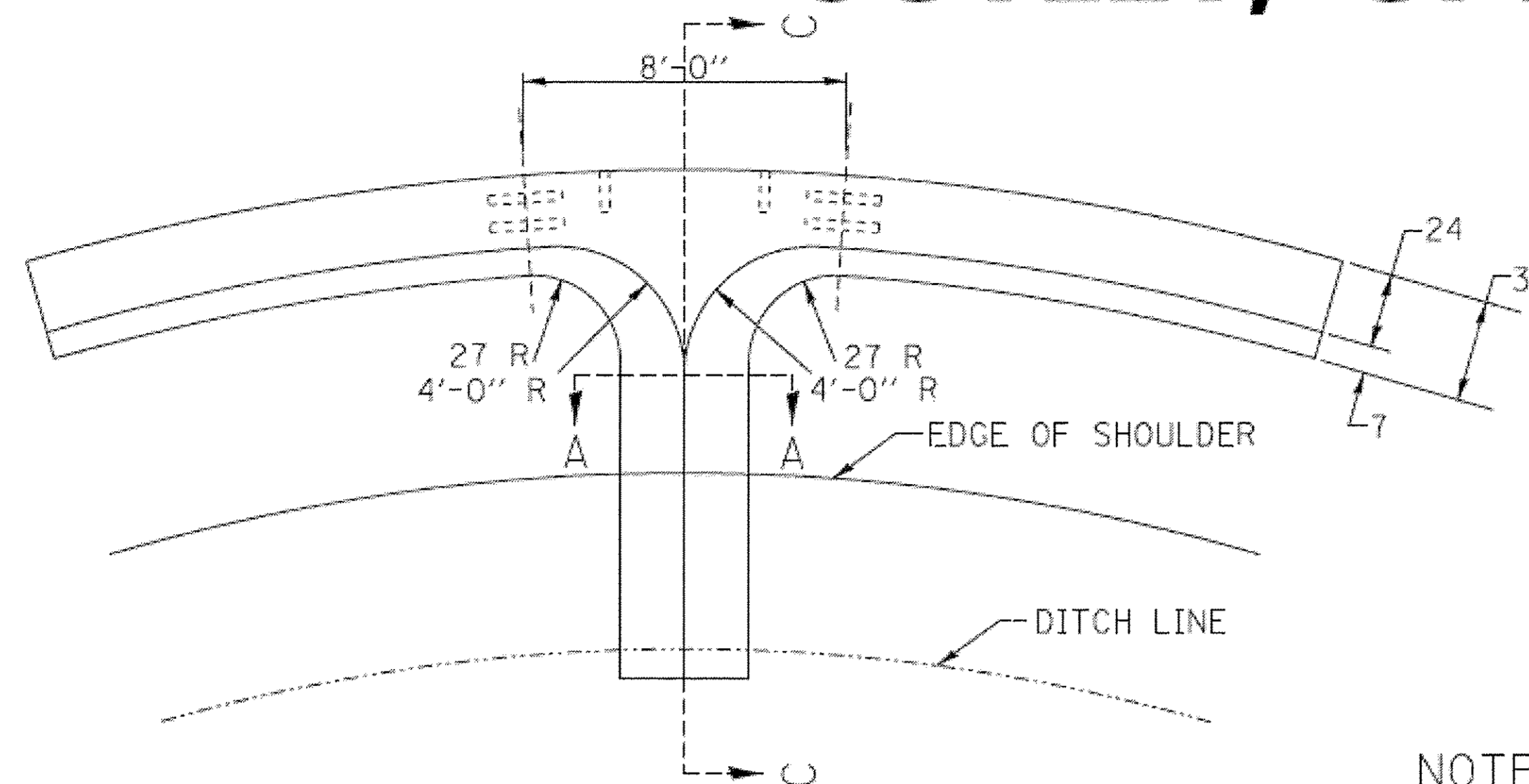
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

REGION 2 / DISTRICT 2 STANDARD
INLETS, SPECIAL 10.2

SHEET NO. 1 OF 1 SHEETS

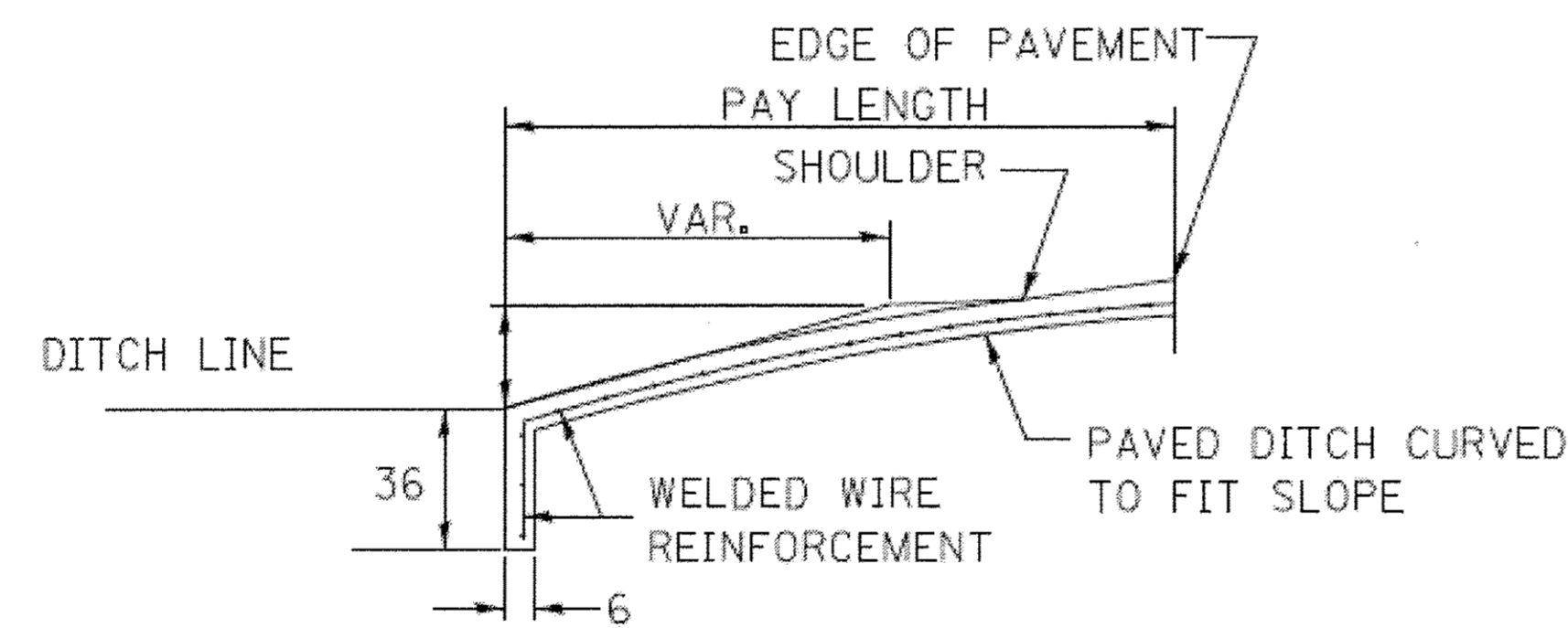
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	53
WHA* 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-0015050				

CURB AND GUTTER OUTLET, SPECIAL



QUANTITY OF CONCRETE
SECTION A-A = 0.07 CU.YD./FT.
8' SECTION OF CURB & GUTTER UP TO
SECTION A-A = 0.75 CU.YD.

SECTION A-A



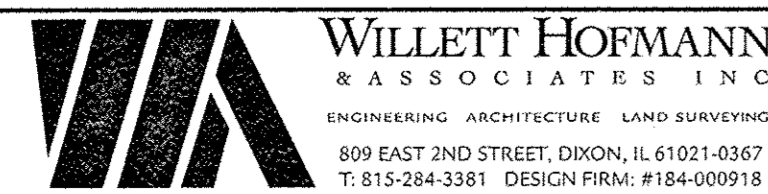
SECTION C-C

NOTE:

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. CURB AND GUTTER OUTLET SHALL BE TIED TO PAVEMENT SLAB WITH 2 TIE BARS, 30 LONG - 30 CENTERS. OUTLET SHALL BE TIED TO CURB AND GUTTER AT CONTRACTION JOINTS AS SHOWN. GUTTER OUTLET AND PAVED DITCH SHALL BE REINFORCED WITH WELDED WIRE REINFORCEMENT HAVING A WEIGHT OF AT LEAST 58 lbs/100 sq. ft. WITH 6 x 6 MESH, NO. 4 WIRE. COST TO BE INCLUDED IN THE UNIT PRICE PER CUBIC YARD FOR CLASS SI CONCRETE (OUTLET).

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

FILE: S:\PROJECTS\2018\1273018_Carroll County, Galena, St. BR DESIGN\STRUCT\Drawings\1273018_District 2 Standards_Sheet.dgn



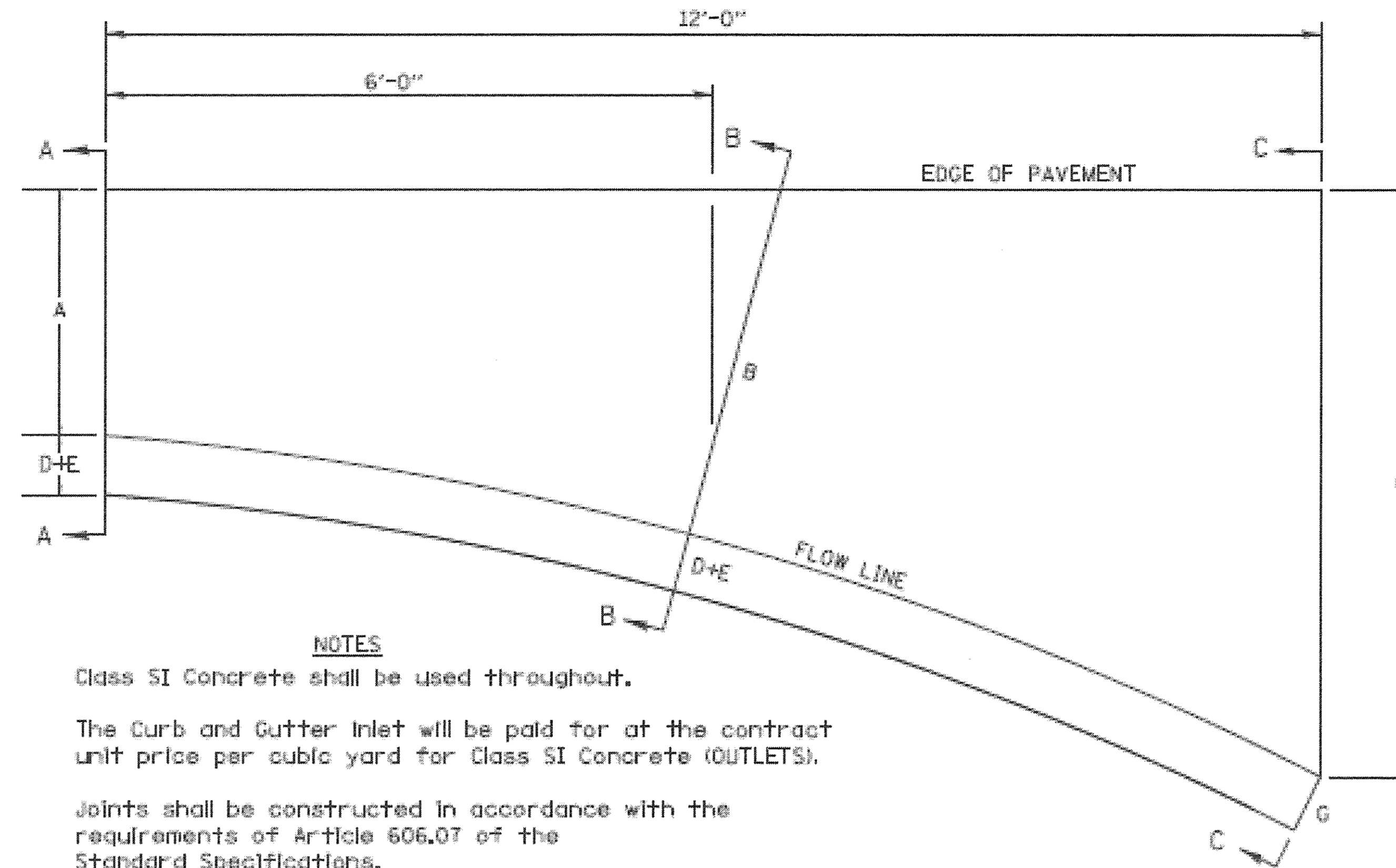
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CHECKED - GFS	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

REGION 2 /DISTRICT 2 STANDARD
CURB AND GUTTER OUTLET, SPECIAL 18.4
SHEET NO. 1 OF 1 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	54
WHA# 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-0015(050)				

STANDARD INLET FOR CURB & GUTTER



NOTES

Class SI Concrete shall be used throughout.

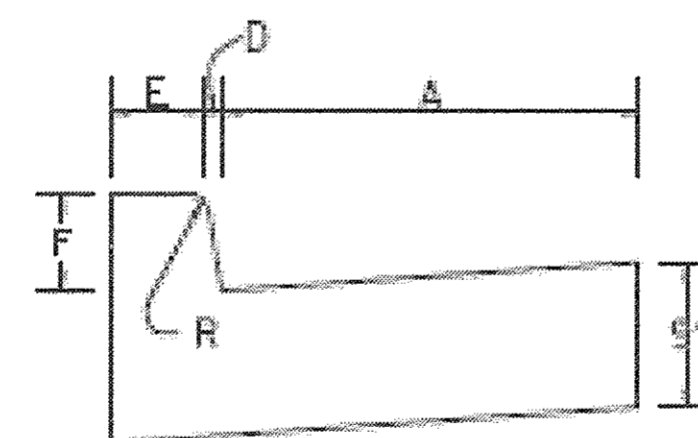
The Curb and Gutter Inlet will be paid for at the contract unit price per cubic yard for Class SI Concrete (OUTLETS).

Joints shall be constructed in accordance with the requirements of Article 606.07 of the Standard Specifications.

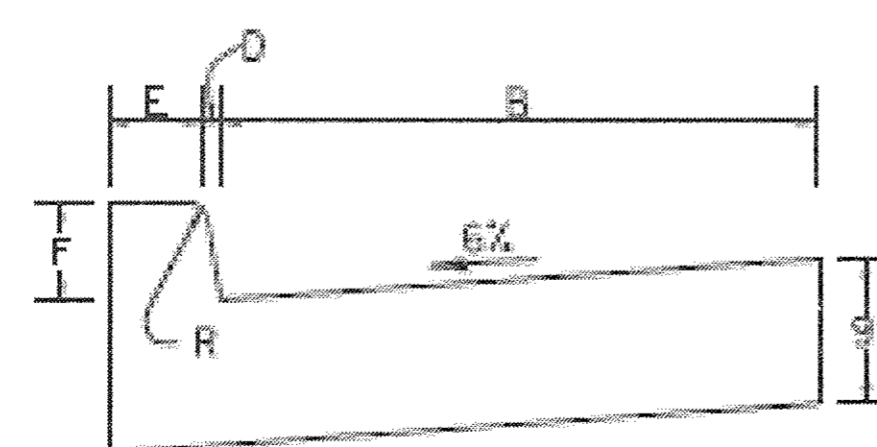
When curb and gutter is constructed adjacent to flexible pavement, a 1" expansion joint shall be installed at construction joints.

All dimensions are in inches unless otherwise noted.

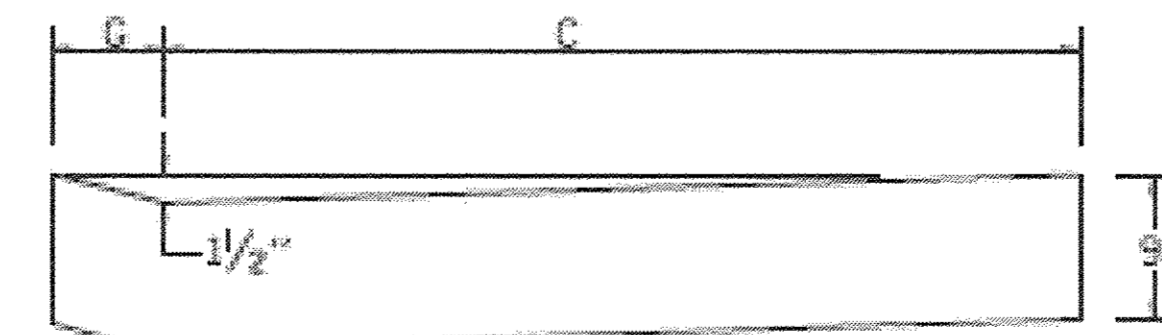
TYPE OF CURB & GUTTER	TABLE OF DIMENSIONS								CONCRETE QUANTITY A-A TO C-C (CU YDS)
	A	B	C	D	E	F	G	R	
B-6.06	6	15	4'	1	6	6	7	1	0.87
B-6.12	12	18.25	4'	1	6	6	7	1	0.95
B-6.18	18	27.25	4' 9"	1	6	6	7	1	1.18
B-6.24	24	32.4	4' 9"	1	6	6	7	1	1.30
M-4.06	6	17.8	3' 9"	4	3	4	7	3	0.75
M-4.12	12	18.25	4'	4	3	4	7	3	0.91
M-4.18	18	27.25	4' 9"	4	3	4	7	3	1.14
M-4.24	24	32.4	4' 9"	4	3	4	7	3	1.25
M-6.06	6	17.8	3' 9"	6	2	6	8	3	0.86
M-6.12	12	18.25	4'	6	2	6	8	2	0.96
M-6.18	18	27.25	4' 9"	6	2	6	8	2	1.20
M-6.24	24	32.4	4' 9"	6	2	6	8	2	1.30



SECTION A-A



SECTION B-B



SECTION C-C

FILE = S:\PROJECTS\2018\1273010_Carroll County_Galeta St BR\DESIGN\STRUCT\Drawings\1273010_District 2 Standards Sheet.dgn

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

DESIGNED - LGN	REVISED - 11-12-14
CHECKED - GFS	REVISED -
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CHECKED - GFS	REVISED -

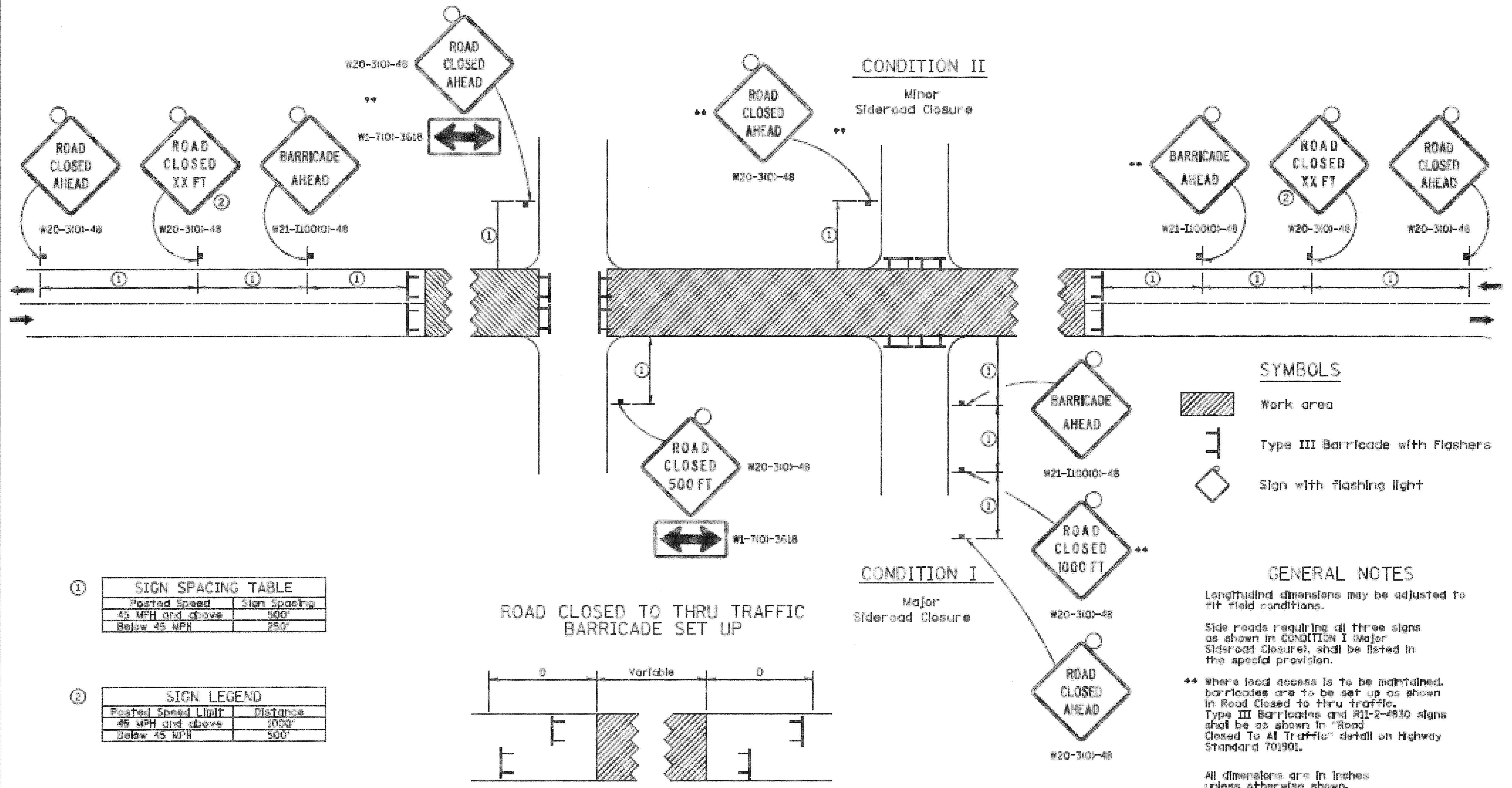
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

REGION 2 / DISTRICT 2 STANDARD
STANDARD INLET FOR CURB & GUTTER 21.2

SHEET NO. 1 OF 1 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	55
WHA* 1273010		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-001510501				

TRAFFIC CONTROL FOR ROAD CLOSURE



Type III Barricades and #11-2-4830 signs shall be as shown in "Road Closed To Thru Traffic" detail on Highway Standard 70190L. If the distance "D" exceeds 2000' an additional set of barricades and #11-2-4830 shall be placed at each end of the work area.

TYPICAL APPLICATION FOR ROAD CLOSURE

FILE - S:\PROJECTS\2010\1273010_Carroll_County_Galena_SideRoadClosure\1273010_District 2 Standards Sheet.dgn



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DRAWN - LGN	REVISED -
CHECKED - GFS	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

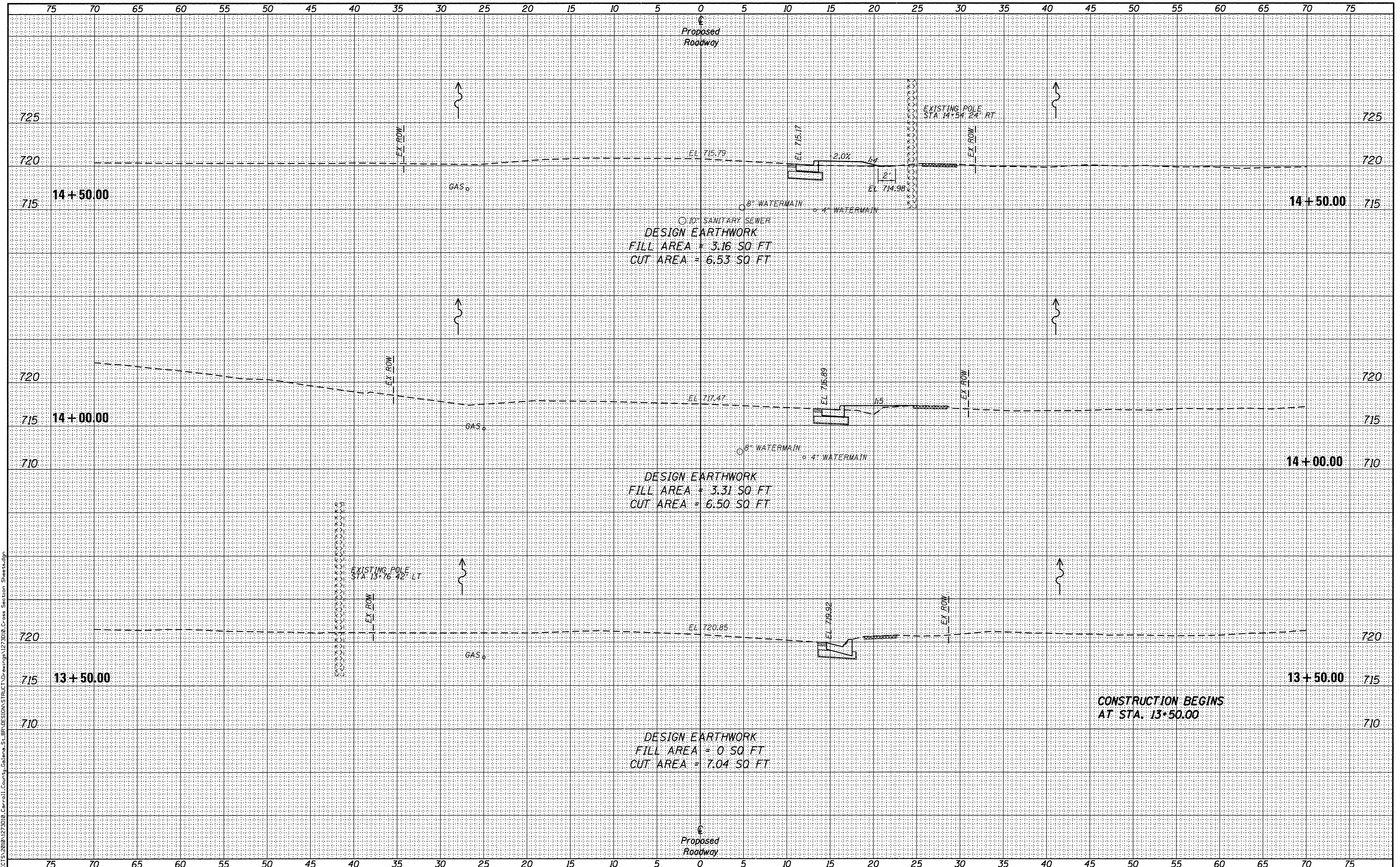
REGION 2 / DISTRICT 2 STANDARD
TRAFFIC CONTROL FOR ROAD CLOSURE 40.1

SHEET NO. 1 OF 1 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	56
WHA* 1273010		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-0015050				

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
NO.	



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

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CHECKED - GFS	REVISED -
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CHECKED - GFS	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

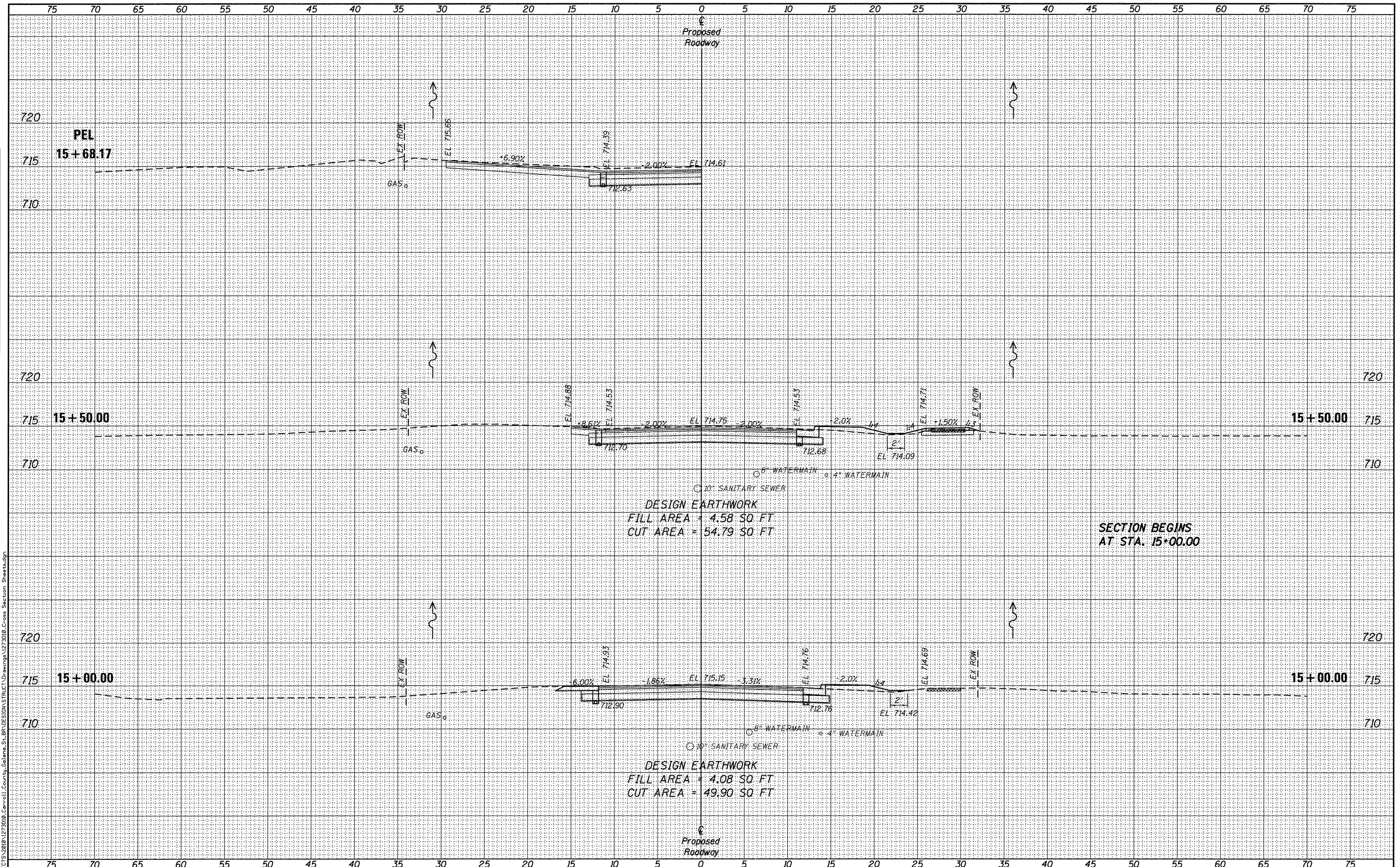
CROSS SECTIONS
C.H. 14 (GALENA STREET)
 SCALE: 1" = 5'-0" SHEET NO. 1 OF 9 SHEETS STA. 13+50.00 TO STA. 14+50.00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	57
WHA# 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501				

FILE: S:\PROJECTS\2010\1273010_Carroll_County_Galena_S.L BR DESIGN\STRUC\Drawings\1273010_Cross Section Sheets.dgn

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

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
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CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

CROSS SECTIONS
C.H. 14 (GALENA STREET)



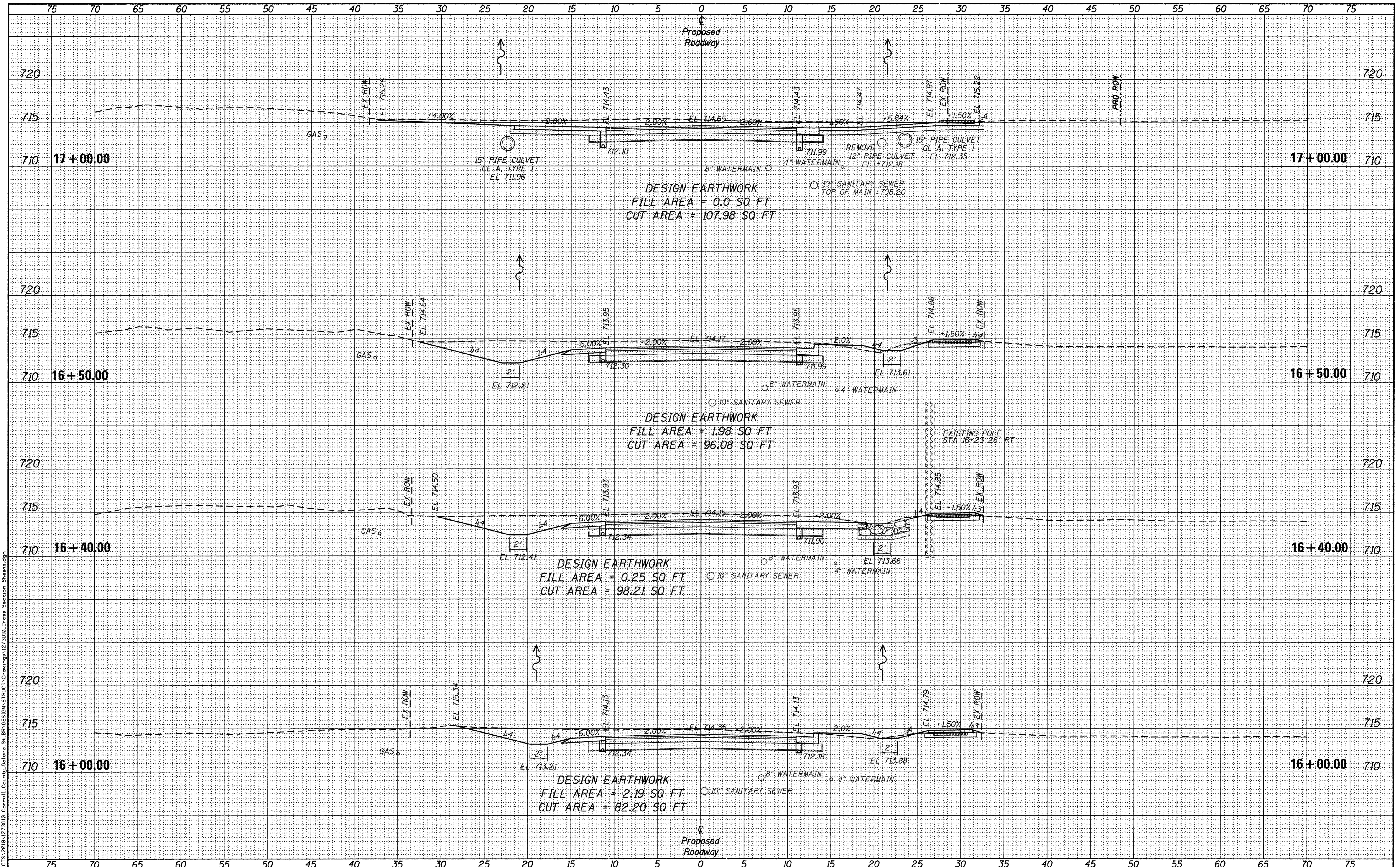
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C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	58
WHA# 1273D10			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BR05-00150501				

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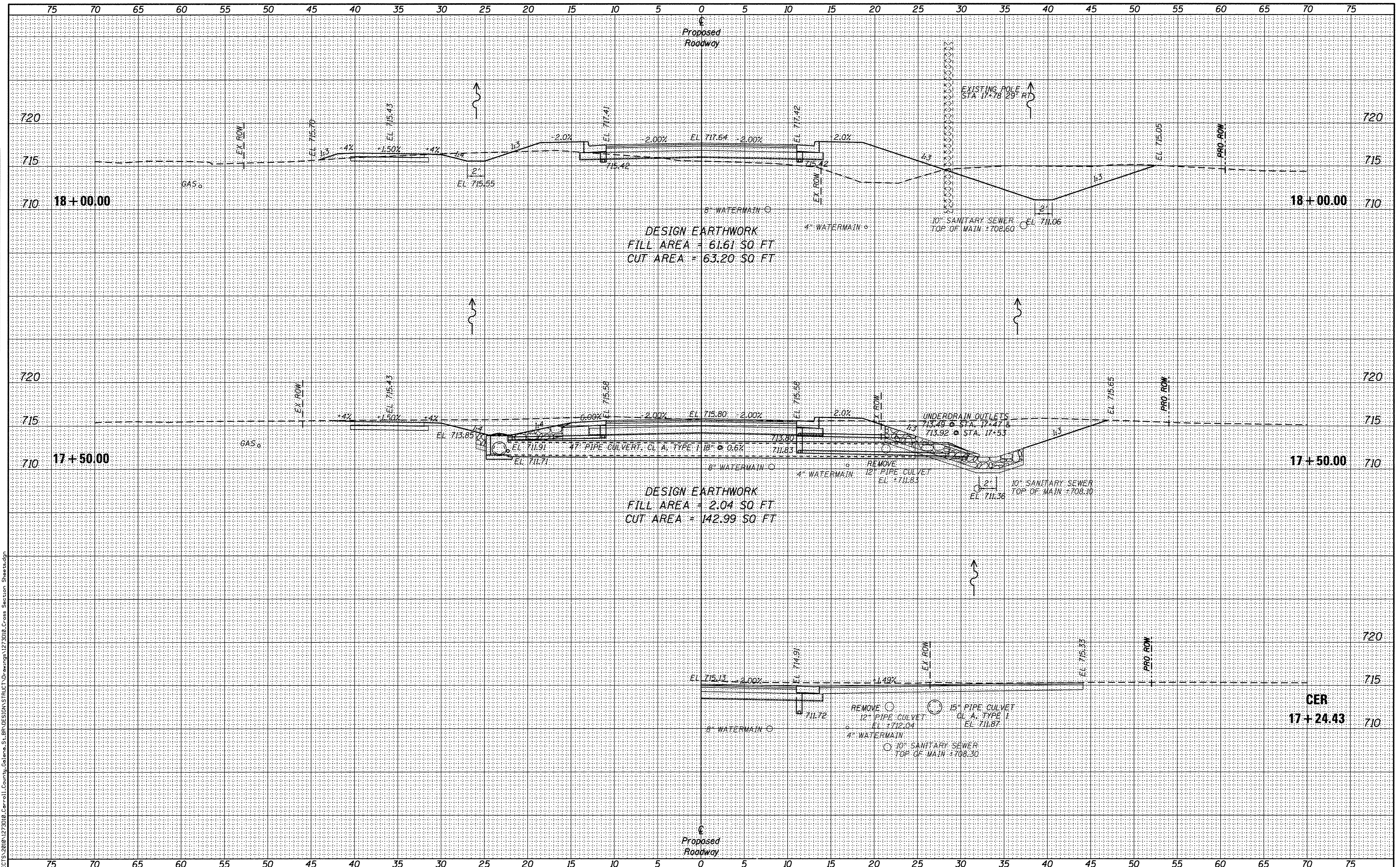
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

CROSS SECTIONS	
C.H.	SECTION
14	08-00027-00-BR
WHA# 1273010	
SCALE: 1" = 5'-0"	
SHEET NO. 3 OF 9 SHEETS	
STA. 16+00.00 TO STA. 17+00.00	

COUNTY	TOTAL SHEETS	SHEET NO.
CARROLL	70	59
CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-0015050		

FINAL SURVEY	DATE
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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



DESIGN EARTHWORK
 FILL AREA = 61.61 SQ FT
 CUT AREA = 63.20 SQ FT

DESIGN EARTHWORK
 FILL AREA = 2.04 SQ FT
 CUT AREA = 142.99 SQ FT

CER
 17+24.43



DESIGNED - LGN	REVISED -
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DRAWN - LGN	REVISED -
CHECKED - GFS	REVISED -

CARROLL COUNTY
 NORTH GALENA ST OVER CARROLL CREEK
 STATION 20 + 00

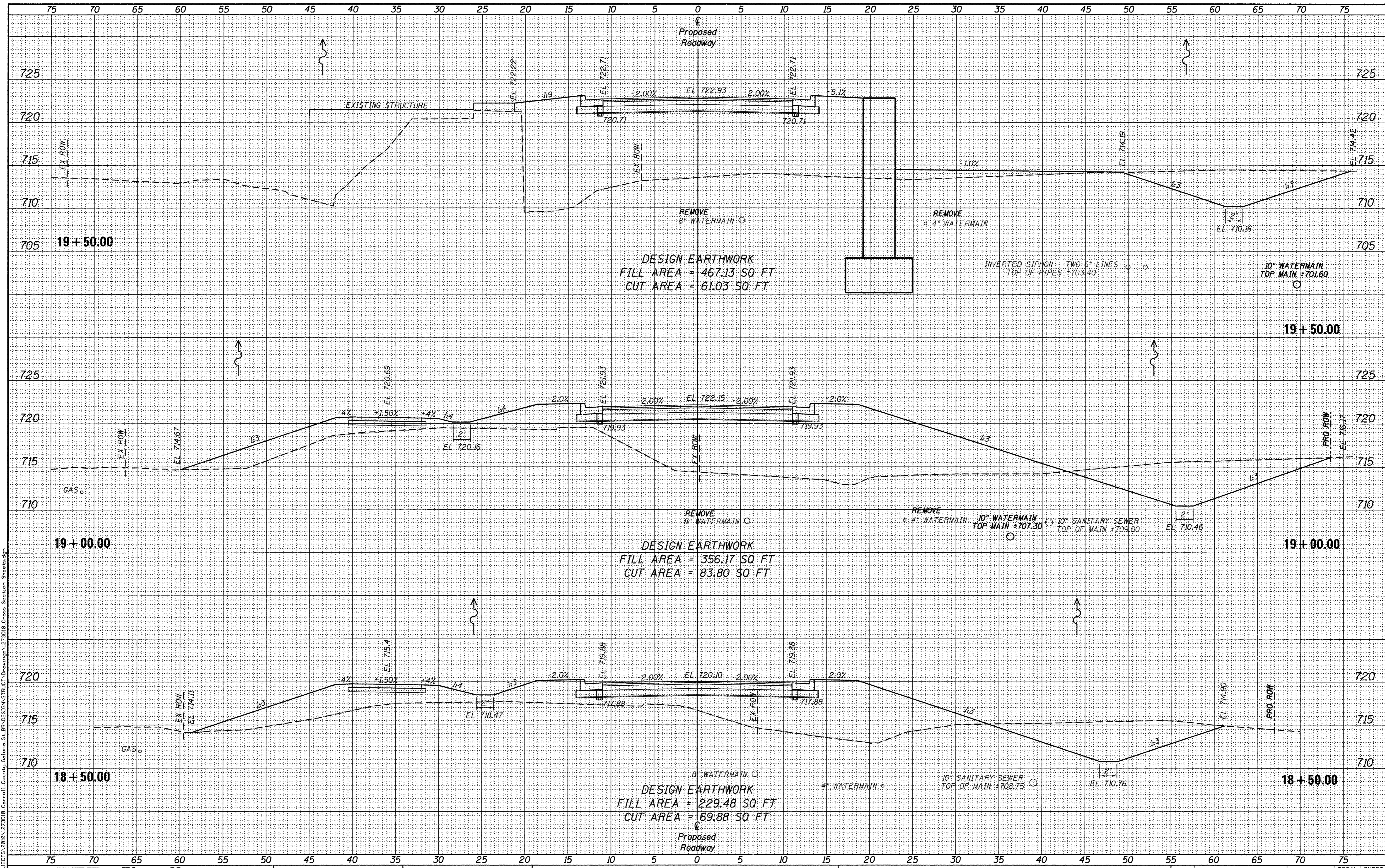
CROSS SECTIONS
 C.H. 14 (GALENA STREET)
 SCALE: 1" = 5'-0" SHEET NO. 4 OF 9 SHEETS STA. 17+24.43 TO STA. 18+00.00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	60
WHA# 1273D10			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501				

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 FINL SURVEY SURVEYED PLOTTED
 NOTE BOOK TEMPLATE
 AREAS CHECKED

DATE: _____ BY: _____
 ORIGINAL SURVEY SURVEYED PLOTTED
 NOTE BOOK TEMPLATE
 AREAS CHECKED



DESIGN EARTHWORK
 FILL AREA = 467.13 SQ. FT
 CUT AREA = 61.03 SQ. FT

DESIGN EARTHWORK
 FILL AREA = 356.17 SQ. FT
 CUT AREA = 83.80 SQ. FT

DESIGN EARTHWORK
 FILL AREA = 229.48 SQ. FT
 CUT AREA = 69.88 SQ. FT

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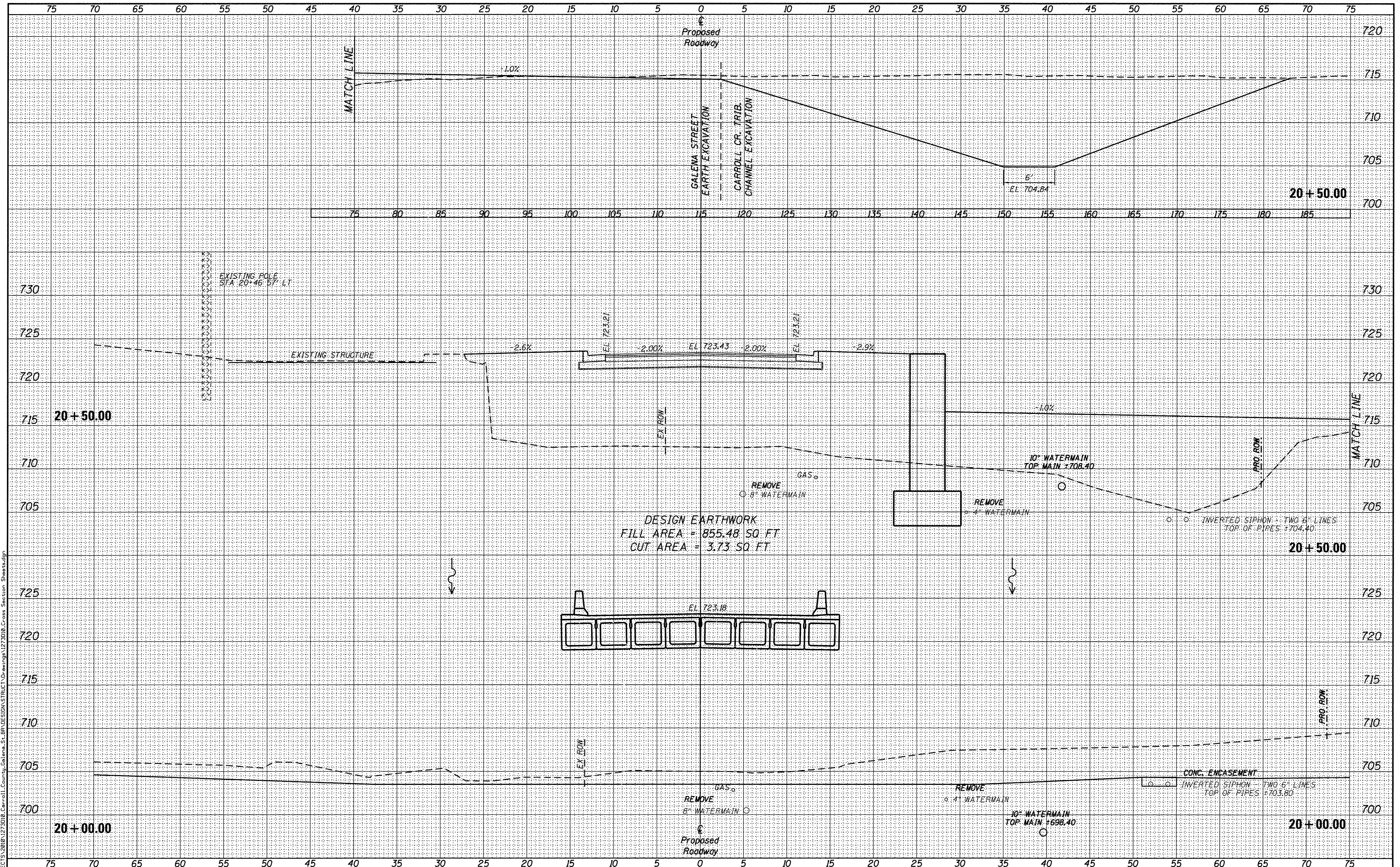
CARROLL COUNTY
 NORTH GALENA ST OVER CARROLL CREEK
 STATION 20+00

CROSS SECTIONS
 C.H. 14 (GALENA STREET)
 SCALE: 1" = 5'-0" SHEET NO. 5 OF 9 SHEETS STA. 18+50.00 TO STA. 19+50.00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	61
WHA# 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501				

DATE	
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NOTE BOOK	
FINAL SURVEY	

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NOTE BOOK	
ORIGINAL SURVEY	



DESIGN EARTHWORK
 FILL AREA = 855.48 SQ FT
 CUT AREA = 3.73 SQ FT



DESIGNED - LGN	REVISED -
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DRAWN - LGN	REVISED -
CHECKED - GFS	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

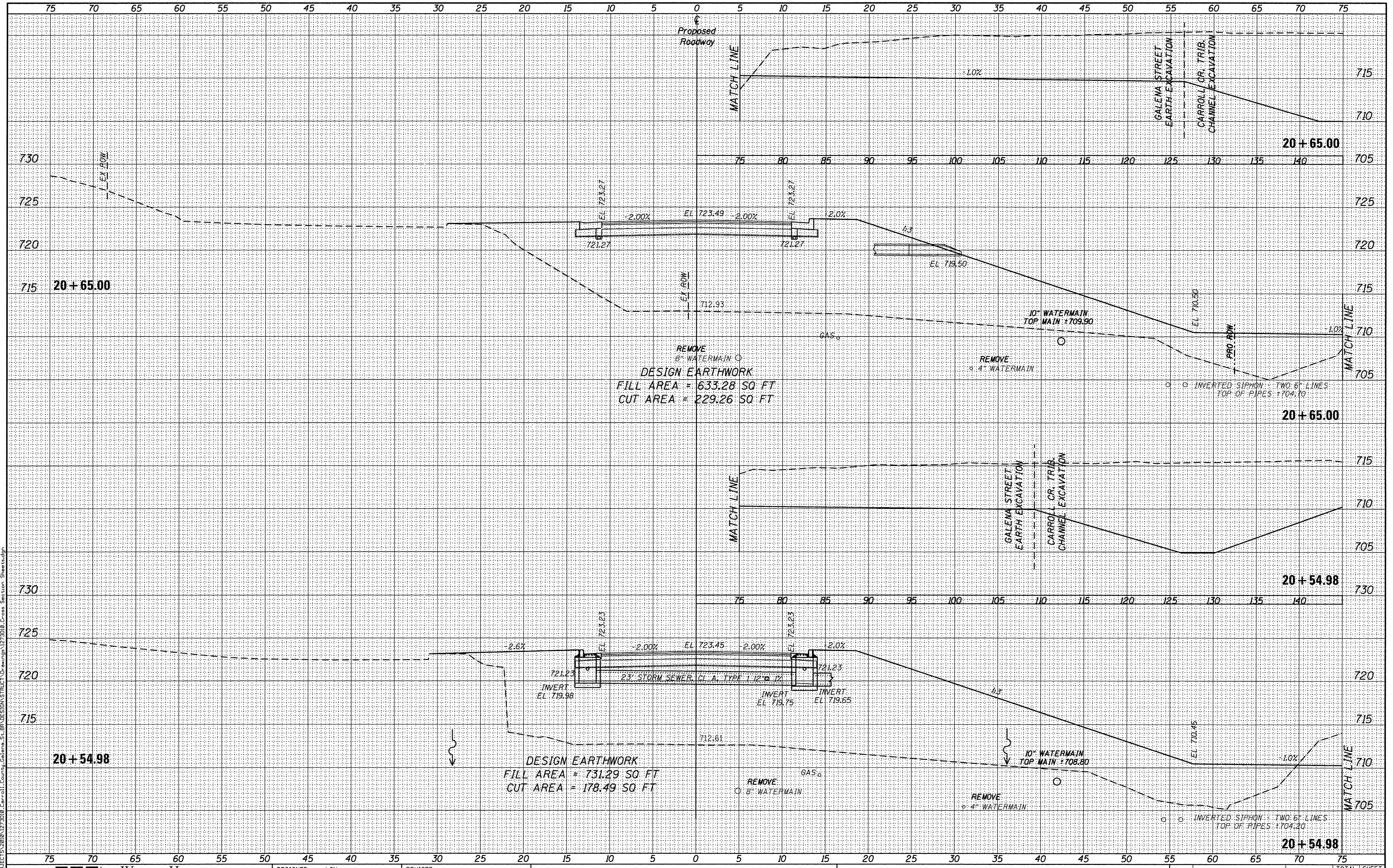
CROSS SECTIONS
C.H. 14 (GALENA STREET)
 SCALE: 1" = 5'-0"
 SHEET NO. 6 OF 9 SHEETS
 STA. 20+00 TO STA. 20+50

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	62
WHA # 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501				

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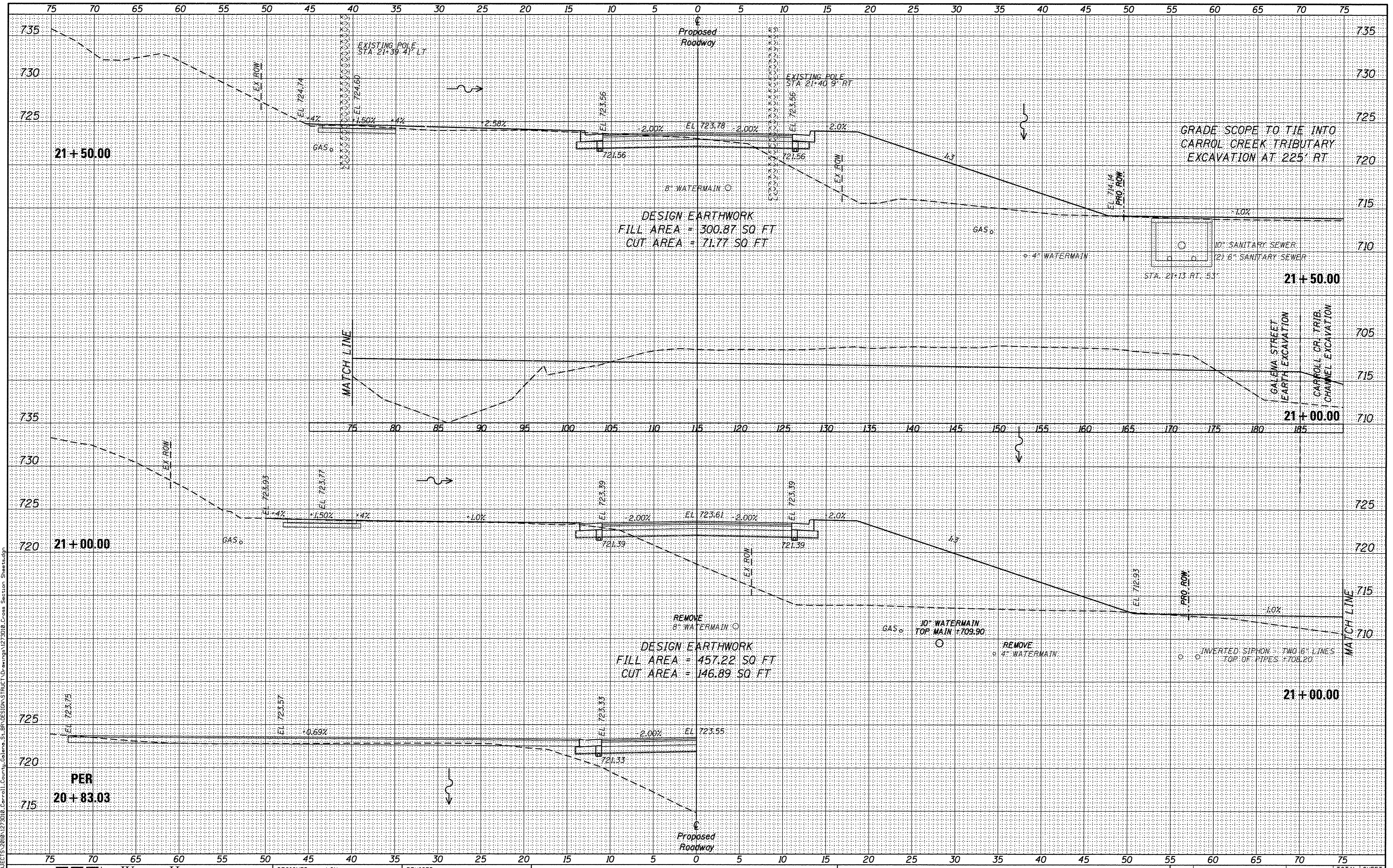
**CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00**

CROSS SECTIONS			
C.H.	SECTION	COUNTY	TOTAL SHEETS
14	08-00027-00-BR	CARROLL	70
WHA# 1273010		CONTRACT NO.	85654
SCALE: 1" = 5'-0"		SHEET NO. 7 OF 9 SHEETS	STA. 20+54.98 TO STA. 20+65.00

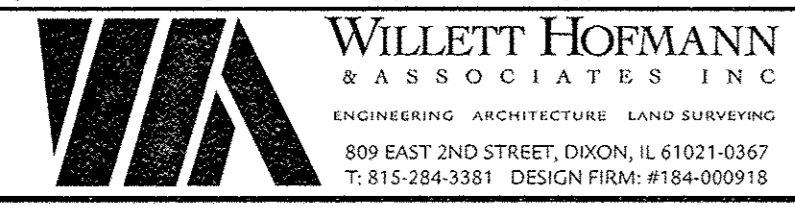
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	63
WHA# 1273010		CONTRACT NO.	85654	
ILLINOIS FED. AID PROJECT BROS-00150501				

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FINAL SURVEY	

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TEMPLATE	
NOTE BOOK	
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SURVEYED	
FINAL SURVEY	



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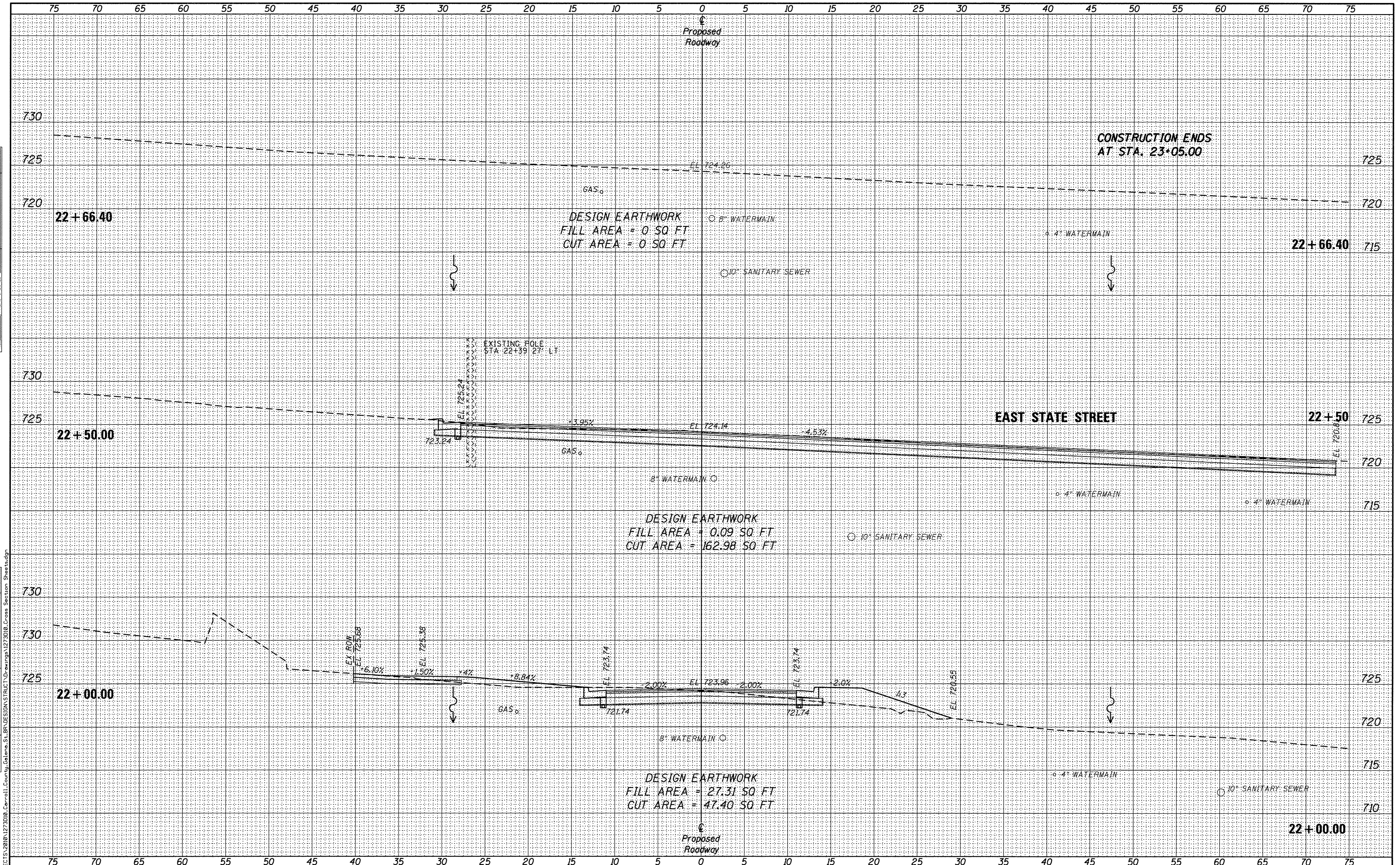
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

CROSS SECTIONS		
C.H.	SECTION	COUNTY
14	08-00027-00-BR	CARROLL
WHA# 1273010		CONTRACT NO. 85654
ILLINOIS FED. AID PROJECT BROS-00190501		

SCALE: 1" = 5'-0"	SHEET NO. 8 OF 9 SHEETS	STA. 20+83.03 TO STA. 21+50.00
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SURVEYED	
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NOTE BOOK	
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ORIGINAL SURVEY	
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NOTE BOOK	
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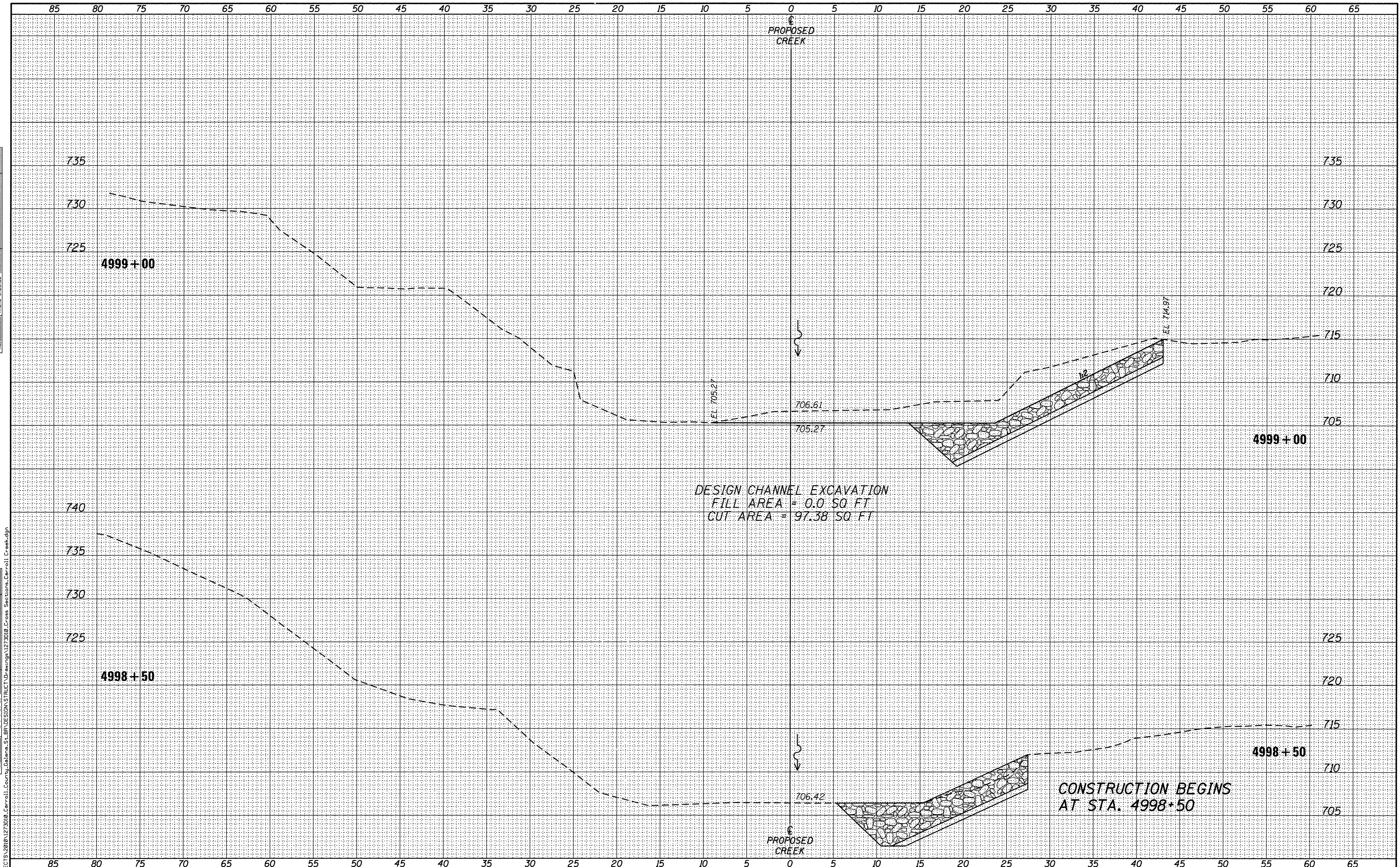
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

CROSS SECTIONS
C.H. 14 (GALENA STREET)
 SCALE: 1" = 5'-0"
 SHEET NO. 9 OF 9 SHEETS
 STA. 22+00.00 TO STA. 22+66.40

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	65
WHA 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501				

FINAL SURVEY	DATE
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NOTE BOOK	
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ORIGINAL SURVEY	DATE
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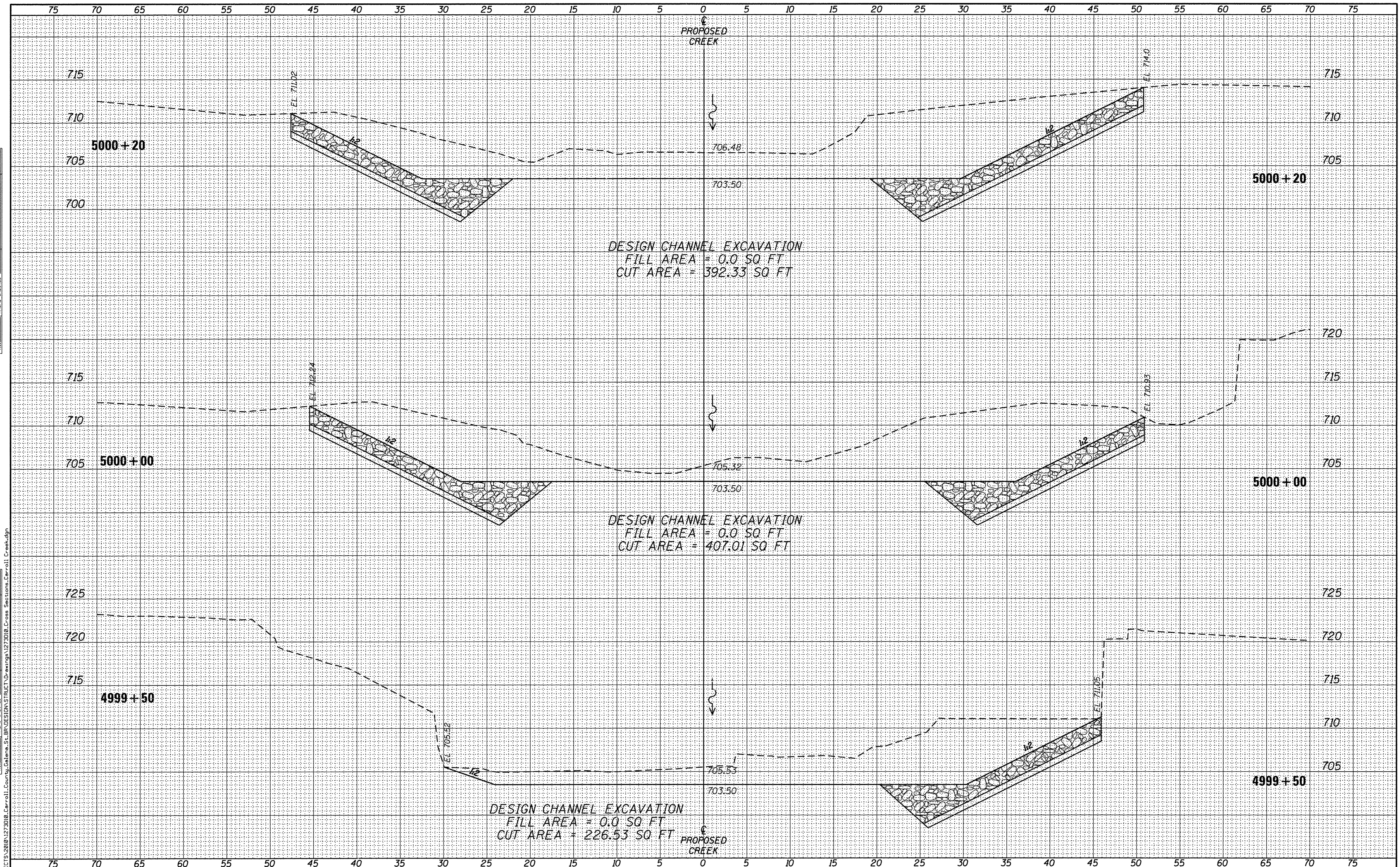
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

CROSS SECTIONS
CARROLL CREEK
 SCALE: 1" = 5'-0" SHEET NO. 1 OF 3 SHEETS STA. 4998+50 TO STA. 4999+00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	66
WHA* 1273D10		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-00150501				

DATE	
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FINAL SURVEY	
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS	
AREAS CHECKED	
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DATE	
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ORIGINAL SURVEY	
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NOTE BOOK	
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CHECKED - MAC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

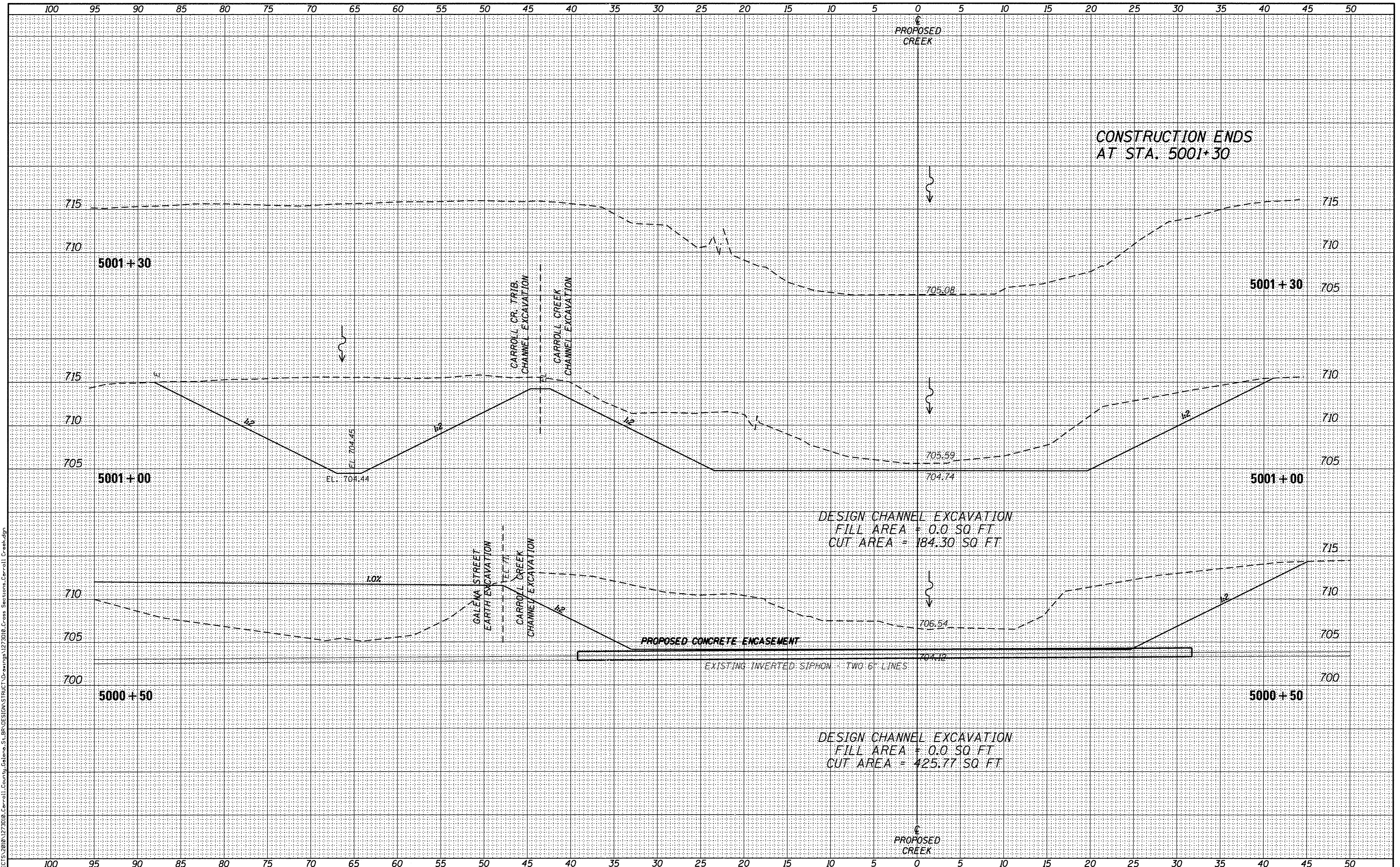
CROSS SECTIONS
CARROLL CREEK
 SCALE: 1" = 5'-0" SHEET NO. 2 OF 3 SHEETS STA. 4998+90 TO STA. 5000+20

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	67
WHA* 1273D10			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501				

FINAL SURVEY	BY	DATE
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NOTE BOOK		
AREAS CHECKED		
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ORIGINAL SURVEY	BY	DATE
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NOTE BOOK		
AREAS CHECKED		
NO.		

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CONSTRUCTION ENDS AT STA. 5001+30

DESIGN CHANNEL EXCAVATION
 FILL AREA = 0.0 SQ. FT.
 CUT AREA = 184.30 SQ. FT.

DESIGN CHANNEL EXCAVATION
 FILL AREA = 0.0 SQ. FT.
 CUT AREA = 425.77 SQ. FT.



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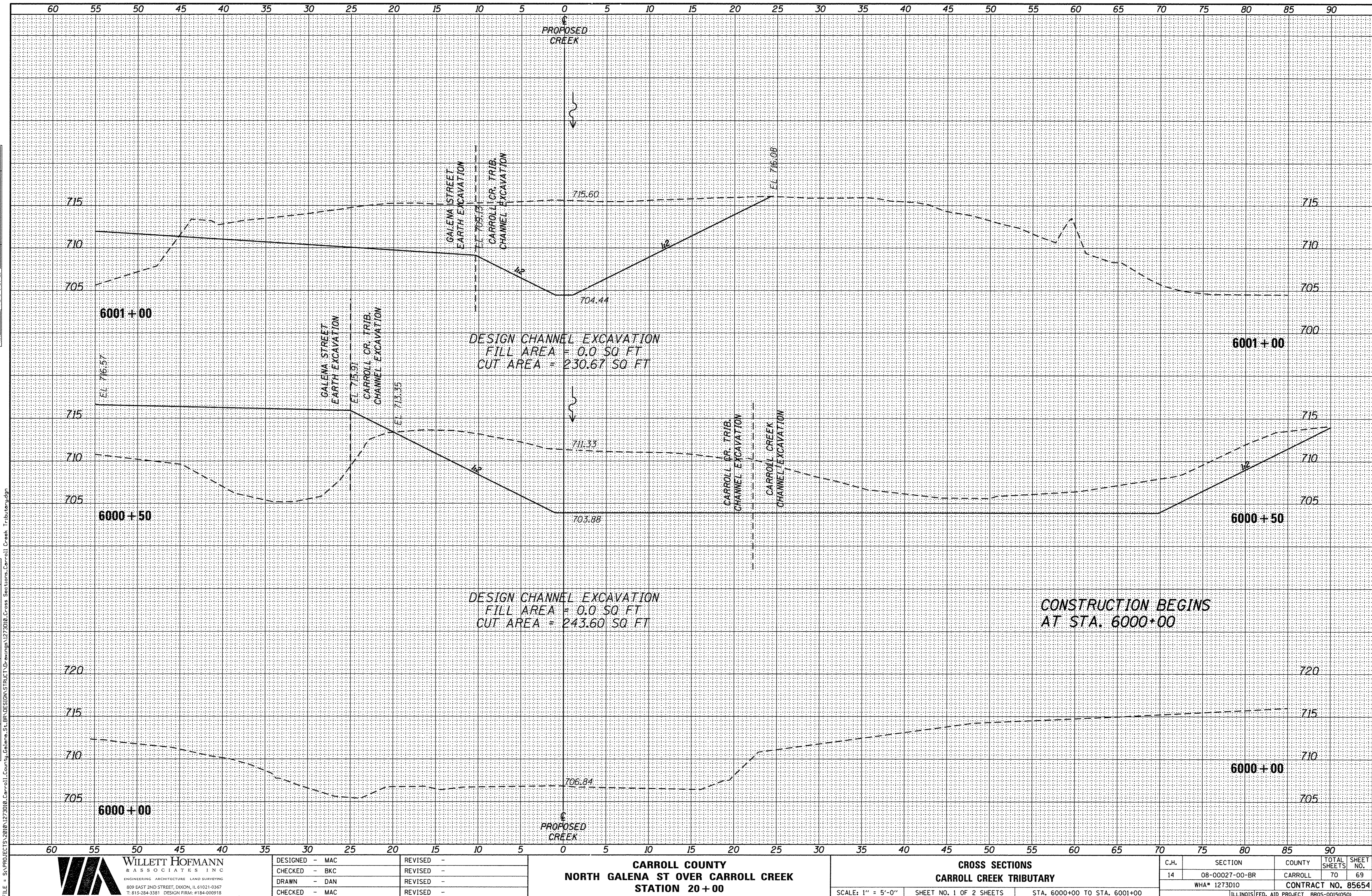
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

CROSS SECTIONS	
CARROLL CREEK	
SCALE: 1" = 5'-0"	SHEET NO. 3 OF 3 SHEETS
STA. 5000+00 TO STA. 5001+30	

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	68
WHA# 1273010		CONTRACT NO. 85654		
ILLINOIS FED. AID PROJECT BROS-0015(050)				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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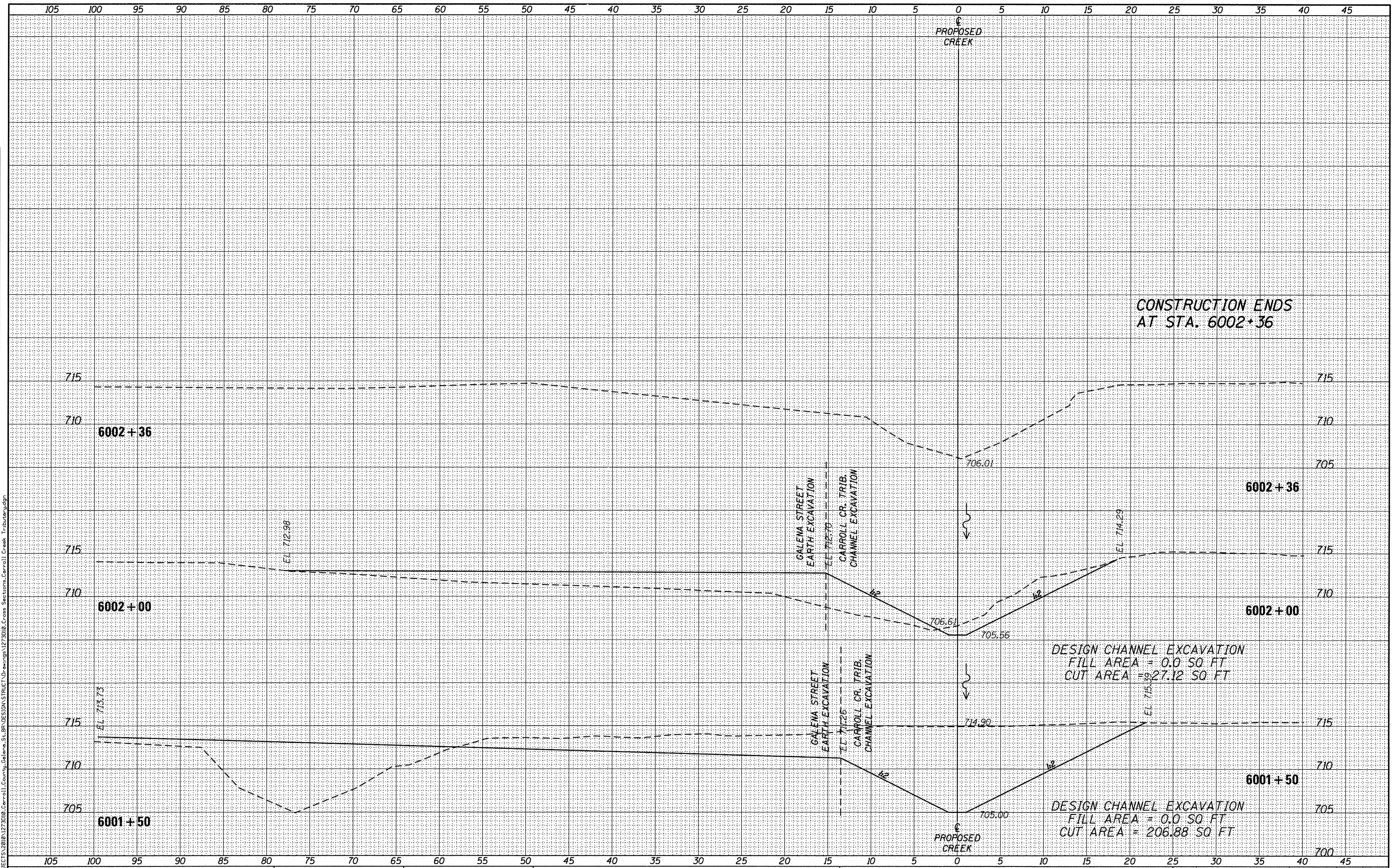
CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20+00

CROSS SECTIONS
CARROLL CREEK TRIBUTARY
SCALE: 1" = 5'-0"
SHEET NO. 1 OF 2 SHEETS
STA. 6000+00 TO STA. 6001+00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
14	08-00027-00-BR	CARROLL	70	69
WHA# 1273010			CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
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CHECKED - MAC	REVISED -

CARROLL COUNTY
NORTH GALENA ST OVER CARROLL CREEK
STATION 20 + 00

CROSS SECTIONS		
C.H.	SECTION	COUNTY
14	08-00027-00-BR	CARROLL
WHA# 1273D10		
SCALE: 1" = 5'-0" SHEET NO. 2 OF 2 SHEETS STA. 6000+50 TO STA. 6002+36		

TOTAL SHEETS	SHEET NO.
70	70
CONTRACT NO. 85654	
ILLINOIS FED. AID PROJECT BROS-00150501	