

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00103-01-BR	KNOX	50	1
		ILLINOIS	CONTRACT NO. 89617	

INDEX OF SHEETS

- 1 COVER SHEET
- 2 HIGHWAY STANDARDS, GENERAL NOTES, LEGEND & COMMITMENTS
- 3 SUMMARY OF QUANTITIES
- 4-6 TYPICAL SECTIONS
- 7-8 SUPERELEVATION TABLE & DETAILS
- 9-10 SCHEDULES OF QUANTITIES
- 11-14 PLAN & PROFILES
- 15 TRAFFIC CONTROL PLAN
- 16-17 EROSION CONTROL PLANS
- 18-21 R.O.W. PLATS
- 22-33 STRUCTURE PLANS
- 34 DETAILS
- 35-36 DISTRICT 4 STANDARDS
- 37-50 CROSS SECTIONS

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2.

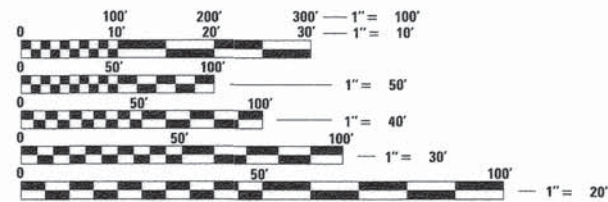
PROPOSED IMPROVEMENT:
 INCLUDES HORIZONTAL REALIGNMENT, A NEW 28' WIDE, 3-SPAN, PPC DECK BEAM STRUCTURE, AGGREGATE ROADWAY SURFACE, GUARDRAIL, EARTHWORK AND OTHER RELATED ITEMS NECESSARY TO COMPLETE THE WORK.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS
CH 11 OVER SPOON RIVER
SECTION 12-00103-01-BR
PROJECT BROS-0095(136)
ROADWAY REALIGNMENT
& BRIDGE REPLACEMENT
KNOX COUNTY

C-94-067-12



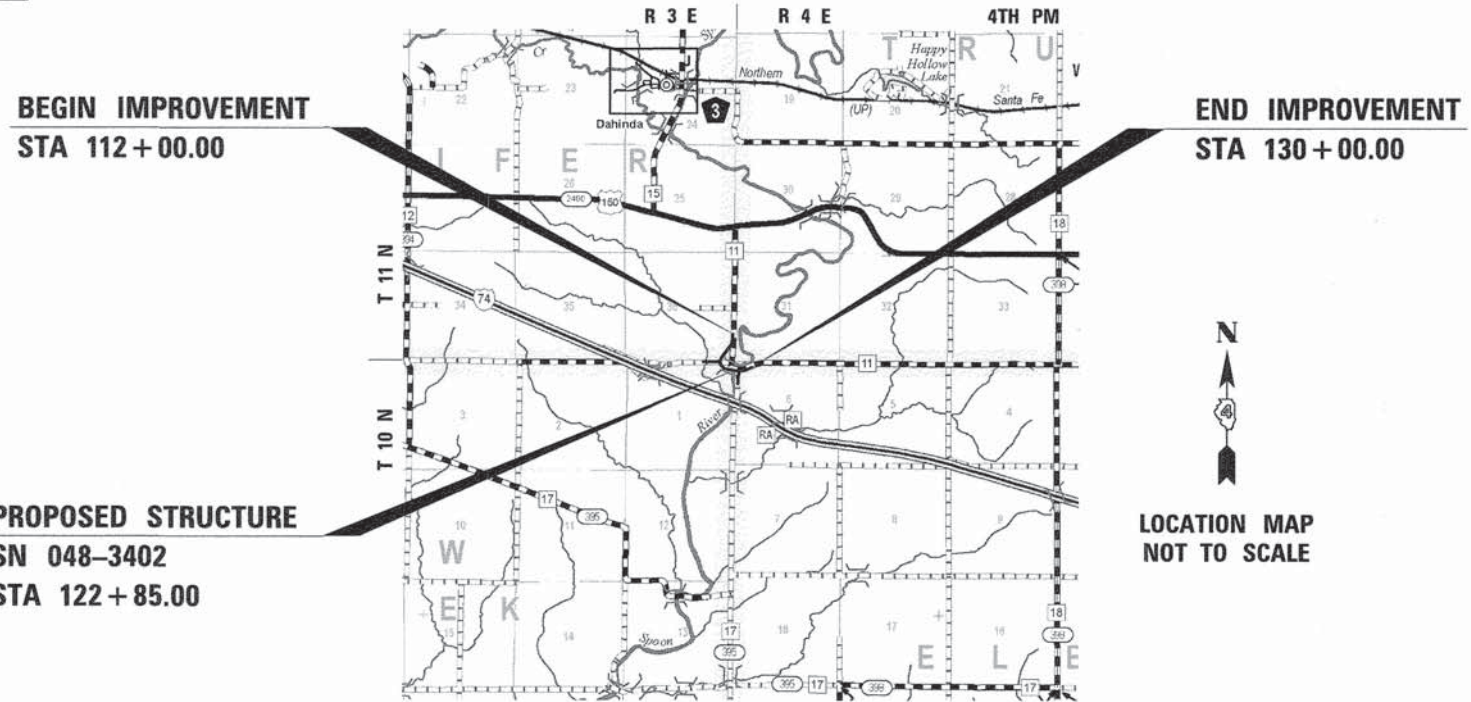
FUNCTIONAL CLASSIFICATION
LOCAL ROAD
 2014 ADT = 100
 DESIGN SPEED = 30 MPH
 PV = 88% SU = 7% MU = 5%



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.

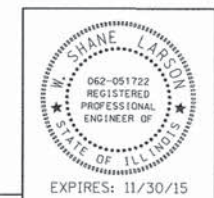
J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123
 OR 811

PROJECT MANAGER: SHANE LARSON, P.E.
PROJECT ENGINEER: RYAN BRADLE, P.E.
CATALOG #034783-00
CONTRACT NO. 89617



N
 LOCATION MAP NOT TO SCALE

GROSS LENGTH = 1,800.00 FT. = 0.341 MILE
 NET LENGTH = 1,800.00 FT. = 0.341 MILE



Hutchinson Engineering, Inc.
 Jacksonville - Peoria - Shorewood
 Since 1945
 2015 JOB #3504

W. Shane Larson
 SIGNATURE
 ENGINEER'S SEAL

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

APPROVED 5/15 2015
Dwana J. Ratterman
 COUNTY ENGINEER

PASSED May 12 2015
Ryan Bradle
 DISTRICT FOUR ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW May 12 2015
Jenna L. Jones
 DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

NO WORK SHALL COMMENCE UNTIL TRAFFIC CONTROL REQUIREMENTS ARE MET AND APPROVED BY THE ENGINEER.

WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. ANY DAMAGE FOUND TO SURVEY MONUMENTS THAT WAS A RESULT OF THE CONTRACTOR'S OPERATIONS WILL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER AND NOISE POLLUTION. THE CONTRACTOR WILL NOT BE ALLOWED TO BUILD FIRES ON THE SITE.

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR MUST CALL J.U.L.I.E. AT 1-800-892-0123 or 811 FOR FIELD LOCATIONS OF BURIED ELECTRICAL, TELEPHONE, GAS FACILITIES, AND ALL PUBLIC UTILITIES. A 48 HOUR NOTIFICATION IS REQUIRED.

DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SO AFFECTED SHALL BE FREE FROM ALL DEBRIS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

THE CONTRACTOR SHALL NOTIFY THE AGENCIES AND UTILITIES AT LEAST 10 (TEN) DAYS PRIOR TO ANY CONSTRUCTION IN THE AREA AND SHALL COMPLY WITH ALL RESTRICTIONS FOR EQUIPMENT MOVEMENTS AND CLEARANCES AS REGARDS TO THEIR FACILITIES.

TRAFFIC SIGNS REMOVED MUST BE RESET AT TEMPORARY LOCATIONS IN A WORKMANLIKE MANNER AND VISIBLE TO TRAFFIC ON THE ROADWAY AS DIRECTED BY THE ENGINEER. THE SIGNS SHALL BE RESET AT LOCATIONS DETERMINED BY THE ENGINEER AFTER CONSTRUCTION IS COMPLETE. THE COST OF SUCH WORK SHALL BE INCLUDED IN THE COST OF THE CONTRACT. KNOX COUNTY WILL BE RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL PERMANENT SIGNS THAT ARE REQUIRED.

THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CONSTRUCTION LAYOUT. THE ENGINEER WILL TRANSFER ELECTRONIC FILES TO THE CONTRACTOR FOR CONSTRUCTION LAYOUT PURPOSES.

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES

THE CONTRACTOR SHALL USE REASONABLE CARE WHEN LOADING, UNLOADING, TURNING OR MOVING ANY EQUIPMENT OR MATERIAL THAT MAY DAMAGE THE EXISTING OR NEW ROADWAY, SIDEROADS OR ENTRANCES. SHOULD ANY ROADWAY OR ENTRANCE BECOME DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL REPAIR SUCH DAMAGE USING THE SAME MATERIAL AS IS EXISTING, AT HIS/HER EXPENSE, AS DIRECTED BY AND TO THE SATISFACTION OF THE ENGINEER.

ALL FRAMES, GRATES, SIGNS, FENCES, DRIVEWAY PAVEMENT, CURB AND GUTTER, SIDEWALK, NEW OR EXISTING, DAMAGED THROUGH CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT HIS/HER EXPENSE.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE PIPE CULVERT PRIOR TO ORDERING.

THE REMOVAL OF EXISTING BITUMINOUS SURFACE TREATMENT, AGGREGATE SURFACE AND GRAVEL OR CRUSHED STONE BASE COURSE WHICH MAY BE NECESSARY FOR THE CONSTRUCTION OF THE PROJECT SHALL BE REMOVED AS EARTH EXCAVATION AND NO COMPENSATION WILL BE ALLOWED FOR ADDITIONAL LABOR OR EQUIPMENT REQUIRED.

THE CONTRACTOR MAY BE REQUIRED TO CONDUCT SOME OF HIS GRADING AND TRENCHING OPERATIONS AROUND TRANSMISSION POLES AND UNDER TRANSMISSION LINES. THE ADDED COST OF PERFORMING THIS WORK SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS WILL NEED TO BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- BDE FORM 2289 (CULTURAL AND NATURAL RESOURCES REVIEW OF BORROW AREAS)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR I.D.O.T. DISTRICT 4 TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND FIVE WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

COMMITMENTS

THE KNOX COUNTY HIGHWAY DEPARTMENT WILL LEVEL TREES MARKED FOR REMOVAL PRIOR TO APRIL 1ST. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING THESE TREES AND STUMPS AS PART OF THIS CONTRACT, TO BE PAID FOR AS TREE REMOVAL (6 TO 15 UNITS DIAMETER) OR TREE REMOVAL, ACRES. THE KNOX COUNTY HIGHWAY DEPARTMENT WILL FOLLOW IDOT DEPARTMENTAL POLICY D&E PRESERVATION AND REPLACEMENT OF TREES. TREE REPLACEMENT SHALL BE 3:1 SEEDLINGS OR 1:1 BALLED AND BURLAP TREES. THE KNOX COUNTY HIGHWAY DEPARTMENT WILL PURCHASE THE REQUIRED NUMBER OF TREES AND PROVIDE THEM TO THE CITY OF GALESBURG AND THE CITY OF GALESBURG WILL PLANT THEM IN THEIR DESIGNATED TREE BANK.

THE 404 PERMIT COORDINATION WILL OCCUR UPON RECEIVING CULTURAL CLEARANCE FROM ISAS AND SHPO. NO INSTREAM WORK SHALL OCCUR UNTIL THE PERMIT IS IN HAND.

THE KNOX COUNTY HIGHWAY DEPARTMENT COMMITS TO THE FOLLOWING ITEMS REGARDING PARCEL NO. 2 OWNED BY MICHAEL COFFMAN & SARAH MAHRT COFFMAN:

- 1) FIELD ENTRANCES SHALL BE INSTALLED TO THE TWO TRIANGULAR PIECES OF PROPERTY CREATED BY THE REALIGNMENT OF COUNTY HIGHWAY 11. THE PROPERTY OWNER WILL BE CONTACTED 30 DAYS PRIOR TO THE CONSTRUCTION OF THESE FIELD ENTRANCES TO DETERMINE THE FINAL LOCATIONS. A TEMPORARY USE PERMIT WILL BE ACQUIRED, IF NECESSARY, TO CONSTRUCT THE ENTRANCES.
- 2) THE PROPERTY OWNER SHALL BE CONTACTED 30 DAYS PRIOR TO THE CONSTRUCTION OF THE PROPOSED FIELD ENTRANCE AT STA. 206+00 TO DETERMINE THE EXACT LOCATION. IF THE FINAL LOCATION IS DIFFERENT THAN THE PROPOSED, A TEMPORARY USE PERMIT WILL BE ACQUIRED TO CONSTRUCT THE ENTRANCE.
- 3) KNOX COUNTY WILL COORDINATE WITH HAW CREEK TOWNSHIP TO CONSTRUCT AN ENTRANCE AT THE WEST EDGE OF THE PROPERTY OUTSIDE OF PROJECT LIMITS. MR. COFFMAN SHALL BE CONTACTED 30 DAYS PRIOR TO THE CONSTRUCTION OF THE PROPOSED FIELD ENTRANCE TO DETERMINE THE EXACT LOCATION. A TEMPORARY USE PERMIT WILL BE ACQUIRED, IF NECESSARY, TO CONSTRUCT THE ENTRANCE.
- 4) THE CONTRACTOR SHALL ALLOW THE PROPERTY OWNER ACCESS TO THE PARCEL FOR FARMING OPERATIONS THROUGHOUT THE DURATION OF THE PROJECT. THE PROPERTY OWNER SHALL GIVE THE CONTRACTOR 24 HOURS ADVANCE NOTICE.

THE KNOX COUNTY HIGHWAY DEPARTMENT WILL INSTALL FENCING PRIOR TO CONSTRUCTION COMMENCING ON THE PROJECT TO PROTECT THE CONSERVATION RESERVE PROGRAM GROUND IN PARCELS 2 AND 3.

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-02	METAL END SECTION FOR PIPE CULVERTS
665001-02	WOVEN WIRE FENCE
666001-01	RIGHT OF WAY MARKERS
701901-05	TRAFFIC CONTROL DEVICES
B.L.R. 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)
B.L.R. 27-1	TRAFFIC BARRIER TERMINAL TYPE 5A

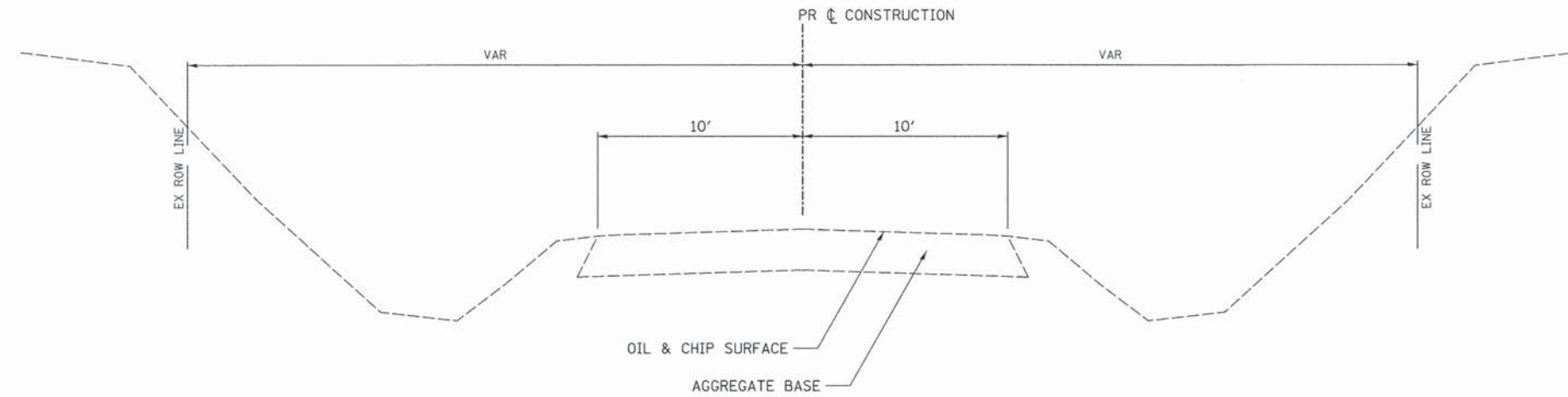
LEGEND

	TREE REMOVAL
	TREE REMOVAL (ACRES)

FILE NAME =	USER NAME = rbrodie	DESIGNED - RMB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	C.H. 11 HIGHWAY STANDARDS, GENERAL NOTES, LEGEND & COMMITMENTS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Y:\3584 - Knox Cnty - CH 11 - PH II\CADD\CADD Sheets\0489617-sht-gennote.dgn	DRAWN - SRH	REVISIED -	REVISED -			N/A	12-00103-01-BR	KNOX	50	2	
PLOT SCALE = 2.0000' / in.	CHECKED - WSL	REVISED -				CONTRACT NO. 89617					
PLOT DATE = 2/18/2016	DATE - 8/4/2014	REVISED -				SCALE: N/A		SHEET NO. 1 OF 1 SHEETS		STA. N/A TO STA. N/A	

SUMMARY OF QUANTITIES									
SPECIAL PROVISION (SP)	CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY	SPECIAL PROVISION (SP)	CODE NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	7		50300280	CONCRETE ENCASEMENT	CU YD	3.4
	20100500	TREE REMOVAL, ACRES	ACRE	0.25	SP	50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	3617
	20200100	EARTH EXCAVATION	CU YD	6019	SP	50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	2429
	20200200	ROCK EXCAVATION	CU YD	20	SP	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	13330
	20300100	CHANNEL EXCAVATION	CU YD	1675	Δ	50900205	STEEL RAILING, TYPE S1	FOOT	436
	20400800	FURNISHED EXCAVATION	CU YD	5480		51201400	FURNISHING STEEL PILES HP10X42	FOOT	220
	20800150	TRENCH BACKFILL	CU YD	24.4		51201800	FURNISHING STEEL PILES HP14X73	FOOT	444
	25000200	SEEDING, CLASS 2	ACRE	4		51202305	DRIVING PILES	FOOT	220
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	339		51203400	TEST PILE STEEL HP10X42	EACH	2
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	339		51500100	NAME PLATES	EACH	1
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	339	SP	542A1063	PIPE CULVERTS, CLASS A, TYPE 2 18"	FOOT	48
	25100115	MULCH, METHOD 2	ACRE	3.75	SP	542C1069	PIPE CULVERTS, CLASS C, TYPE 2 24"	FOOT	53
	25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1515	SP	542D1063	PIPE CULVERTS, CLASS D, TYPE 2 18"	FOOT	58
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1131		54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2
	28000305	TEMPORARY DITCH CHECKS	FOOT	426		54215553	METAL END SECTIONS 18"	EACH	2
	28000400	PERIMETER EROSION BARRIER	FOOT	1579		54215559	METAL END SECTIONS 24"	EACH	1
	28000500	INLET AND PIPE PROTECTION	EACH	3	SP	59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	18.5
	28100107	STONE RIPRAP, CLASS A4	SQ YD	41	Δ	63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
	28100209	STONE RIPRAP, CLASS A5	TON	900	Δ	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1(SPECIAL) TANGENT	EACH	4
	28200200	FILTER FABRIC	SQ YD	781	Δ	63200310	GUARDRAIL REMOVAL	FOOT	236
	40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	4781	Δ	66500105	WOVEN WIRE FENCE, 4'	FOOT	860
SP	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		67100100	MOBILIZATION	L SUM	1
	50105220	PIPE CULVERT REMOVAL	FOOT	71	SP Δ	78200410	GUARDRAIL MARKERS, TYPE A	EACH	8
SP	50200100	STRUCTURE EXCAVATION	CU YD	80	SP Δ	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
	50200300	COFFERDAM EXCAVATION	CU YD	20	SP	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
SP	50201101	COFFERDAM (TYPE 1) (LOCATION -1)	EACH	1	SP	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
SP	50201102	COFFERDAM (TYPE 1) (LOCATION -2)	EACH	1	SP	Z0065000	SETTING PILES IN ROCK	EACH	12
	50300225	CONCRETE STRUCTURES	CU YD	182.7	SP Δ	Z0022800	FENCE REMOVAL	FOOT	987

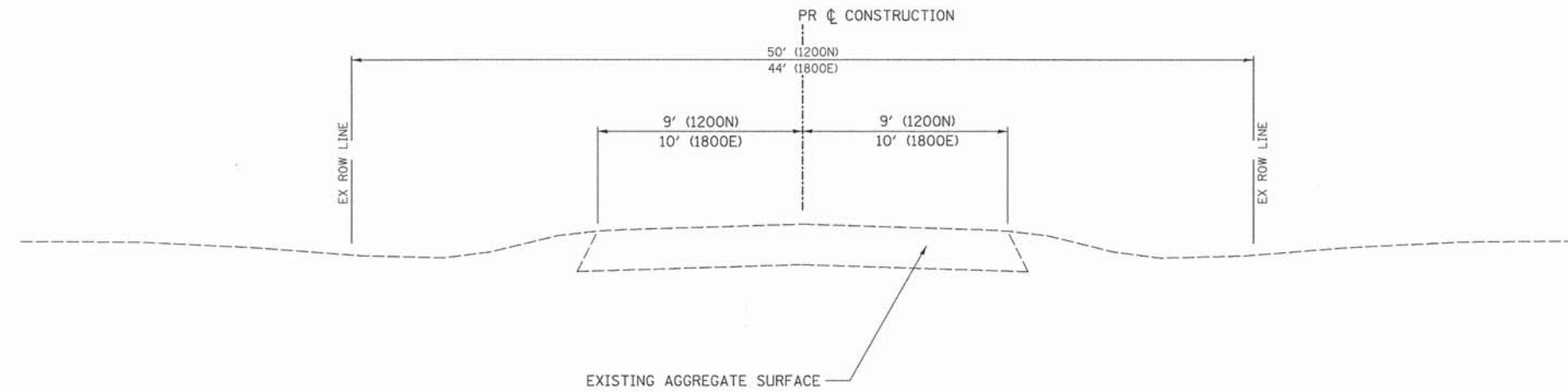
Δ SPECIALTY ITEMS



EXISTING TYPICAL SECTION

C.H. 11

STA 105+00 TO STA 133+00

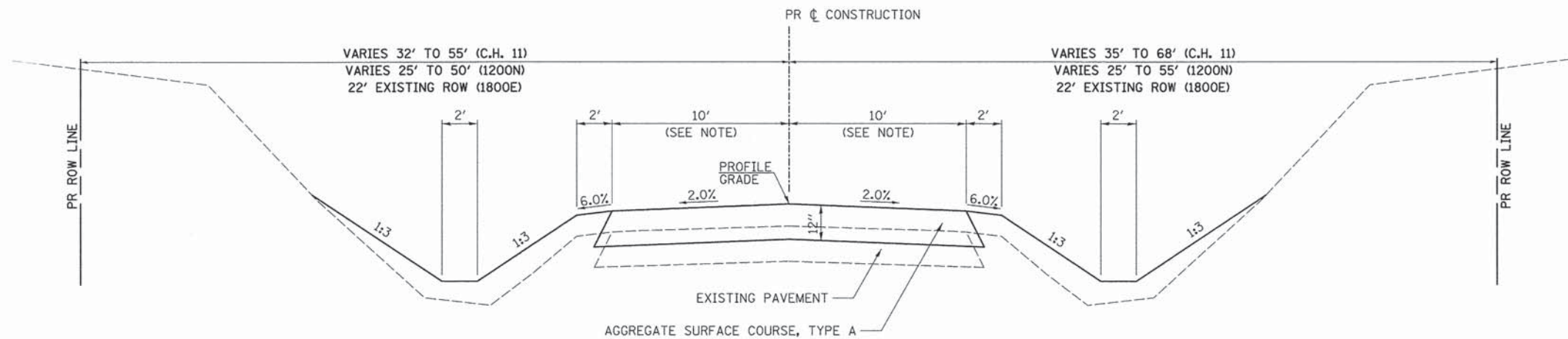


EXISTING TYPICAL SECTION

1200N & 1800E

STA 200+00 TO STA C.H. 11 (1200N)
STA 302+00 TO STA C.H. 11 (1800E)

FILE NAME =	USER NAME = SHUGHES	DESIGNED - RMB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	C.H. 11, 1200N & 1800E EXISTING TYPICAL SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
V:\3524 - Knox Cnty - CH 11 - PH 11\CA00	CADD Sheets\0489617-shl-typical-1.dgn	DRAWN - SRH	REVISED -		SCALE: N/A	SHEET NO. 1 OF 3 SHEETS	STA. N/A	TO STA. N/A	N/A	12-00103-01-BR	KNOX	50	4
	PLOT SCALE = 4,000' / 1" =	CHECKED - WSL	REVISED -					CONTRACT NO. 89617			ILLINOIS FED. AID PROJECT		
	PLOT DATE = 3/30/2015	DATE - 9/24/2014	REVISED -										

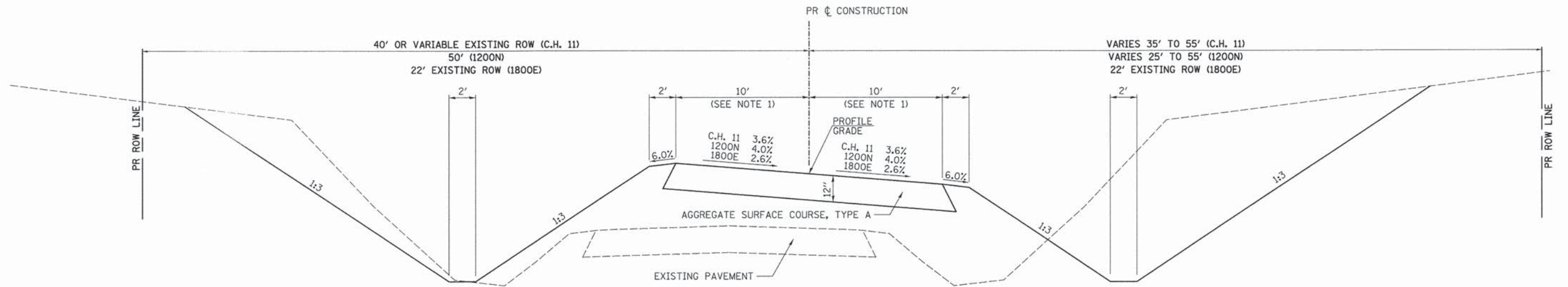


PROPOSED TYPICAL SECTION

- C.H. 11: STA 112+00 TO STA 112+30
 STA 117+03 TO STA 119+00
 STA 121+68 TO STA 121+76
 STA 121+76 TO STA 123+94 (BRIDGE OMISSION)
 STA 123+94 TO STA 124+23
 STA 129+48 TO STA 130+00
- 1200N: STA 202+00 TO STA 205+56
- 1800E: STA 305+47 TO STA 306+93

NOTE: VARIES FROM EXISTING WIDTH TO 10' FROM STA 112+00 TO STA 112+50 (C.H. 11)
 VARIES FROM 10' TO EXISTING WIDTH FROM STA 129+50 TO STA 130+00 (C.H. 11)
 VARIES FROM EXISTING WIDTH TO 10' FROM STA 202+00 TO STA 202+50 (1200N)

FILE NAME =	USER NAME = Shugas	DESIGNED - RMB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	C.H. 11, 1200N & 1800E PROPOSED TYPICAL SECTION	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT SCALE = 4.000' / 1" =	CHECKED - WSL	REVISED -			CONTRACT NO. 89617					
	PLOT DATE = 3/30/2015	DATE - 9/24/2014	REVISED -			ILLINOIS FED. AID PROJECT					
				SCALE: N/A		SHEET NO. 2 OF 3 SHEETS		STA. N/A		TO STA. N/A	

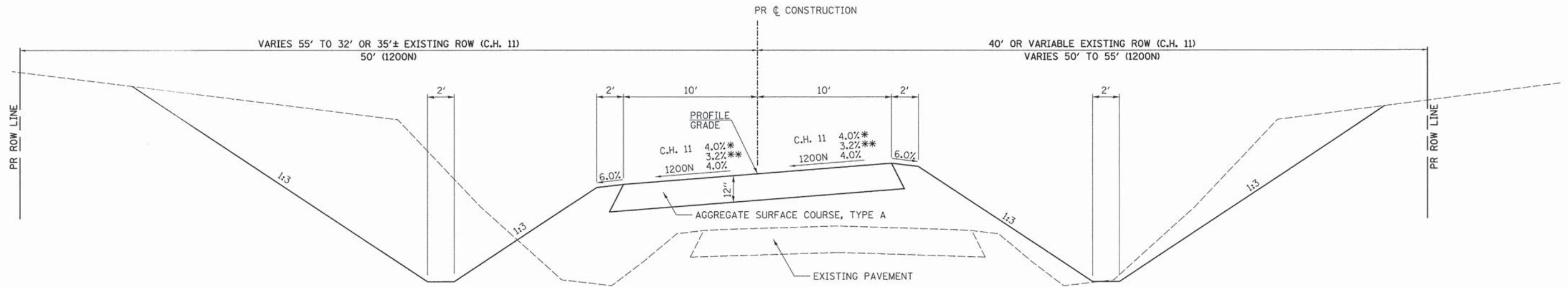


PROPOSED SUPERELEVATED TYPICAL SECTION

C.H. 11: STA 112+30 TO STA 117+03
 1200N: STA 205+56 TO STA 209+42
 1800E: STA 302+00 TO STA 305+47

NOTES:

- 1.) VARIES FROM EXISTING WIDTH TO 10' FROM STA 302+00 TO STA 302+50 (1800E)
- 2.) STATION RANGES FOR SUPERELEVATED SECTIONS INCLUDE TRANSITION. SEE TABLES FOR TRANSITION INFORMATION.



PROPOSED SUPERELEVATED TYPICAL SECTION

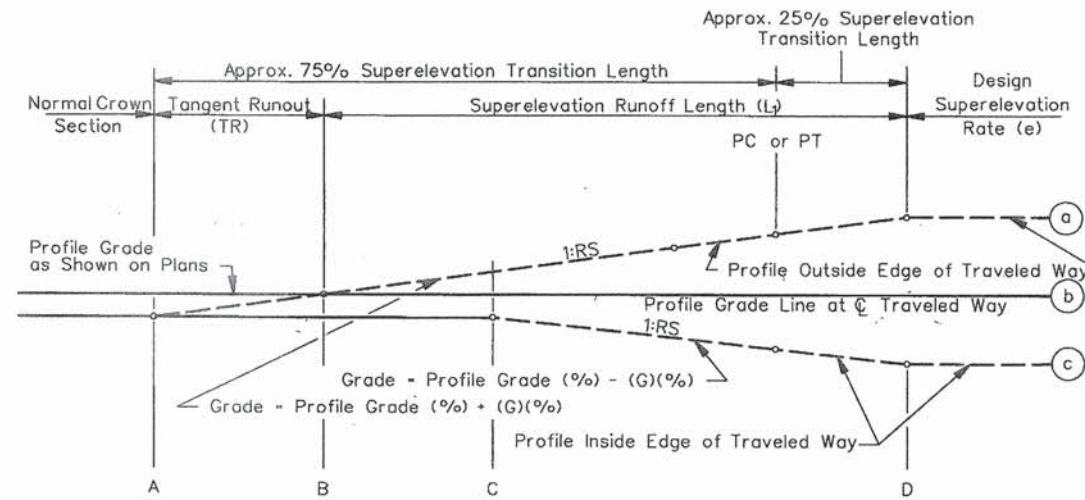
C.H. 11: STA 119+00 TO STA 121+68*
 STA 124+23 TO STA 129+48**
 1200N: STA 209+42 TO STA 210+14

FILE NAME =	USER NAME = SHughes	DESIGNED - RMB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	C.H. 11, 1200N & 1800E PROPOSED SUPERELEVATED TYPICAL SECTIONS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V:\3584 - Knox Cnty - CH 11 - PH II\CADD	CADD Sheets\0489617-shit-typical-3.dgn	DRAWN - SRH	REVISED -		SCALE: N/A	SHEET NO. 3 OF 3 SHEETS	STA. N/A TO STA. N/A	N/A	12-00103-01-BR	KNOX	50	6
	PLOT SCALE = 4.000' / 1" =	CHECKED - WSL	REVISED -		CONTRACT NO. 89617							
	PLOT DATE = 3/30/2015	DATE - 9/24/2014	REVISED -		ILLINOIS FED. AID PROJECT							

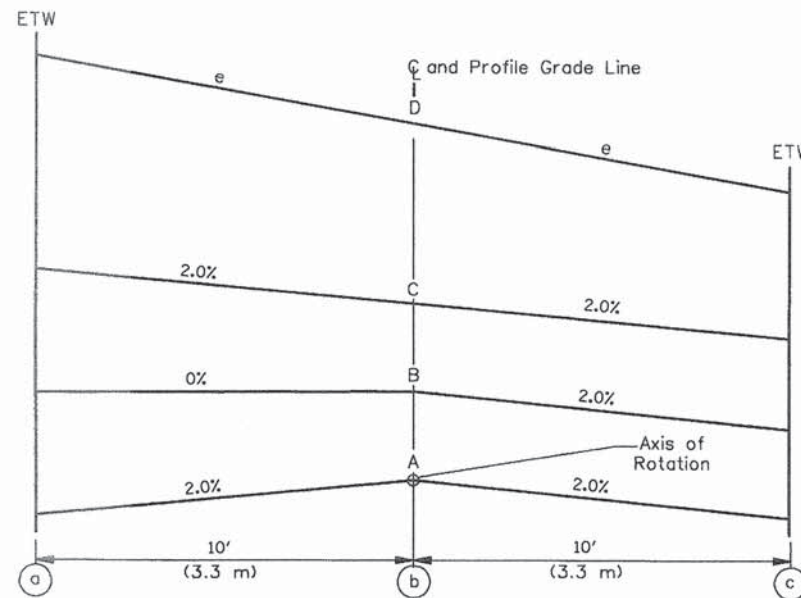
Jan 2006

BUREAU OF LOCAL ROADS & STREETS
HORIZONTAL ALIGNMENT

29-3(11)



Note: Round all edge breakpoints in field.



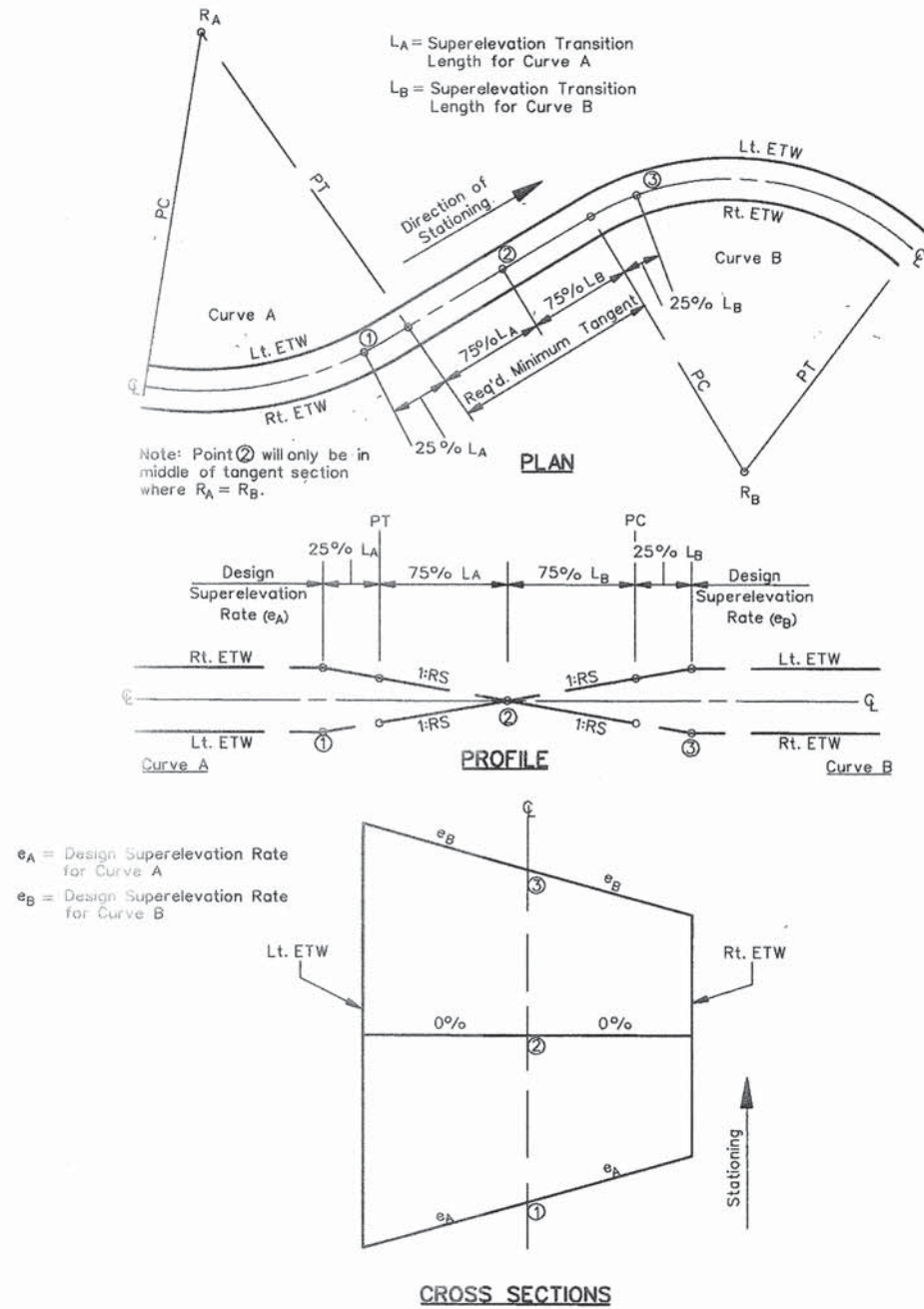
AXIS OF ROTATION ABOUT CENTERLINE
(Two-Lane Highway)

Figure 29-3E

SECTIONS	STA	LEFT	RIGHT
		e	e
A	112+30	-2.0%	-2.0%
B	112+60	0.0%	-2.0%
C	112+91	2.0%	-2.0%
PC	112+94.09		
D	113+15	3.6%	-3.6%
D	116+18	3.6%	-3.6%
PT	116+39.47		
C	116+42	2.0%	-2.0%
B	116+73	0.0%	-2.0%
A	117+03	-2.0%	-2.0%

SECTIONS	STA	LEFT	RIGHT
		e	e
A	124+23	-2.0%	-2.0%
B	124+54	-2.0%	0.0%
PC	124+82.53		
C	124+84	-2.0%	2.0%
D	125+02	-3.2%	3.2%
D	128+69	-3.2%	3.2%
C	128+87	-2.0%	2.0%
PT	128+88.32		
B	129+17	-2.0%	0.0%
A	129+48	-2.0%	-2.0%

SECTIONS	STA	LEFT	RIGHT
		e	e
A	302+00	-2.0%	-2.0%
B	302+30	0.0%	-2.0%
PC	302+51.66		
C	302+61	2.0%	-2.0%
D	302+70	2.6%	-2.6%
D	304+77	2.6%	-2.6%
C	304+86	2.0%	-2.0%
PT	304+94.66		
B	305+17	0.0%	-2.0%
A	305+47	-2.0%	-2.0%



**SUPERELEVATION DEVELOPMENT FOR REVERSE CURVES
(Continuously Rotating Plane)**

Figure 29-3G

**PROPOSED SUPERELEVATION TABLE
1200N-1 & CH11-3**

SECTIONS	CHAIN	STA	LEFT		RIGHT	
			e A	e A	e B	e B
A	1200N-1	205+56	-2.0%	-2.0%		
B	1200N-1	205+87	0.0%	-2.0%		
C	1200N-1	206+17	2.0%	-2.0%		
PC	1200N-1	206+24.85				
D	1200N-1	206+48	4.0%	-4.0%		
D	1200N-1	208+48	4.0%	-4.0%		
PT	1200N-1	208+70.94				
MIDPOINT OF TANGENT	1200N-1	209+42.44	0.0%	0.0%	0.0%	0.0%
PC	1200N-1 = CH11-3	210+13.93 = 118+99.67				
D	CH11-3	119+22			-4.0%	4.0%
D	CH11-3	120+77			-4.0%	4.0%
PT	CH11-3	121+00.00				
C	CH11-3	121+08			-2.0%	2.0%
B	CH11-3	121+38			-2.0%	0.0%
A	CH11-3	121+68			-2.0%	-2.0%

* CONTINUOUSLY ROTATING PLANE

EARTHWORK						
1		2	5	6	7	
LOCATION		EARTH EXCAVATION	SUITABLE EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTH BALANCE WASTE(+) OR SHORTAGE(-)	
STATION	TO STATION	CU YD	CU YD	CU YD	CU YD	
C.H. 11						
112+00	TO 118+50	1580	1185	668	517	
119+00	TO 121+76	582	437	3408	-2971	
121+76	TO 123+94	BRIDGE OMISSION				
123+94	TO 130+00	669	502	1798	-1296	
EXISTING ROAD TO BE REMOVED		227	170	506	-336	
1200N						
202+00	TO 210+14	2633	1975	2319	-344	
EXISTING ROAD TO BE REMOVED		103	77	804	-727	
1800E						
302+00	TO 306+93	225	169	492	-323	
TOTAL		6019	4515	9995	-5480	

SHRINKAGE FACTORS: 25%
EARTH EXCAVATION:
COLUMN 1, 2 & 4 - LOCATION AND QUANTITIES FROM CROSS SECTIONS.
CUT = EARTH EXCAVATION AND FILL = EMBANKMENT
COLUMN 3 = COLUMN 2 x (1 - EARTH EXCAVATION SHRINKAGE FACTOR)
COLUMN 5 = COLUMN 3 - COLUMN 4

TEMPORARY DITCH CHECKS (ROLLED EXCELSIOR)		
LOCATION		LENGTH
STATION	SIDE	FOOT
C.H. 11		
112+00	LT & RT	23
113+60	RT	11.5
113+75	LT	11.5
115+20	RT	11.5
115+50	LT	11.5
115+65	RT	11.5
116+00	LT	11.5
116+10	RT	11.5
116+50	LT	11.5
116+55	RT	11.5
117+00	LT & RT	23
117+45	RT	11.5
117+50	LT	11.5
118+25	RT	11.5
1200N		
202+00	LT & RT	23
202+35	LT	11.5
202+45	RT	11.5
202+70	LT	11.5
202+90	RT	11.5
203+05	LT	11.5
203+15	RT	11.5
203+30	LT	11.5
203+40	RT	11.5
203+55	LT	11.5
203+70	RT	11.5
203+85	LT	11.5
204+00	RT	11.5
204+15	LT	11.5
204+40	RT	11.5
204+55	LT	11.5
205+00	RT	11.5
205+15	LT	11.5
205+50	LT	11.5
206+50	RT	11.5
TOTAL		426

SEEDING, MULCH & NUTRIENTS									
LOCATION			TEMPORARY EROSION CONTROL SEEDING	SEEDING, CLASS 2	MULCH, METHOD 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	
STATION +/-	TO	STATION +/-	POUND	ACRE	ACRE	POUND	POUND	POUND	
C.H. 11									
112+00.0	TO	122+67.8	294	0.98	0.91	88	88	88	
112+00.0	TO	118+89.7	126	0.42	0.42	38	38	38	
119+00.0	TO	119+90.0	24	0.08	0.06	7	7	7	
120+10.0	TO	122+59.1	72	0.24	0.18	22	22	22	
123+44.3	TO	125+48.9	51	0.17	0.14	15	15	15	
123+52.4	TO	130+00.0	111	0.37	0.37	33	33	33	
125+69.9	TO	130+00.0	63	0.21	0.21	19	19	19	
1200N									
202+00.0	TO	205+58.9	63	0.21	0.21	19	19	19	
202+00.0	TO	210+13.8	153	0.51	0.45	46	46	46	
205+78.9	TO	209+75.4	204	0.68	0.61	61	61	61	
1800E									
302+00.0	TO	306+59.8	18	0.06	0.06	5	5	5	
302+00.0	TO	306+73.5	18	0.06	0.06	5	5	5	
TOTAL			1197	4.00	3.75	359	359	359	

SEEDING NUTRIENTS RATE OF APPLICATION: 90 LBS/ACRE
TEMPORARY EROSION CONTROL SEEDING RATE OF APPLICATION: 100 LBS/ACRE (3 APPLICATIONS)
AREAS OF MULCH HAVE BEEN DEDUCTED FROM EROSION CONTROL BLANKET LOCATIONS.

TREE REMOVAL (6 TO 15 UNITS DIAMETER)			
STATION	SIDE	OFFSET FOOT	UNIT
C.H. 11			
115+46.8	RT	11.7	7
TOTAL			7

TREE REMOVAL, ACRES				
STATION	TO	STATION	SIDE	ACRE
C.H. 11				
121+46	TO	122+63	RT	0.07
123+75	TO	124+37	RT	0.06
TOTAL				0.13
USE				0.25

RIPRAP					
STATION	TO	STATION	SIDE	STONE RIPRAP, CLASS A4	FILTER FABRIC
				SQ YD	
C.H. 11					
121+50.0	TO	122+00.0	RT	41	41
TOTAL				41	41

PERIMETER EROSION BARRIER				
STATION	TO	STATION	SIDE	LENGTH FOOT
C.H. 11				
117+50	TO	118+54	LT	107
124+50	TO	130+00	LT	537
1800E				
302+00	TO	306+60	LT	464
302+00	TO	306+74	RT	471
TOTAL				1579

INLET & PIPE PROTECTION			
STATION	OFFSET FOOT	SIDE	EACH
C.H. 11			
118+65.0	24.3	RT	1
119+77.5	36.6	RT	1
127+54.8	24.4	RT	1
TOTAL			3

HEAVY DUTY EROSION CONTROL BLANKET				
LOCATION				AREA
STATION +/-	TO	STATION +/-	SIDE	SQ YD
C.H. 11				
119+00	TO	119+78	RT	81
119+34	TO	121+00	LT	135
120+35	TO	121+00	RT	69
121+00	TO	121+50	LT	44
121+00	TO	121+50	RT	45
121+00	TO	121+72	LT	128
121+00	TO	121+81	RT	212
121+50	TO	122+00	LT	41
123+98	TO	124+50	RT	149
1200N				
206+50	TO	209+90	LT	336
207+00	TO	210+14	RT	275
TOTAL				1515

GUARDRAIL REMOVAL				
STATION	TO	STATION	SIDE	FOOT
C.H. 11				
121+85.1	TO	122+09.8	LT	24.7
122+03.0	TO	122+08.4	LT	8.7
123+75.1	TO	124+89.5	LT	113.9
123+75.2	TO	124+64.0	LT	88.9
TOTAL				236.2
USE				236

PIPE CULVERTS								
STATION	SIDE	PIPE CULVERTS			END SECTIONS			TRENCH BACKFILL
		TYPE 2			P.R.C. FLARED 18"	METAL 18"	METAL 24"	
		CLASS A 18"	CLASS D 18"	CLASS C 24"				
FOOT			EACH			CUYD		
C.H. 11								
118+65	X-RD	48			2			17.3
120+00	RT		58			2		
127+57.6	X-RD			53			1	7.1
TOTAL		48	58	53	2	2	1	24.4

PIPE CULVERT REMOVAL			
STATION	SIDE	TYPE	LENGTH FOOT
C.H. 11			
121+59.3	LT	15" CMP	28
127+57.6	X-RD	24" CMP	43
TOTAL			71

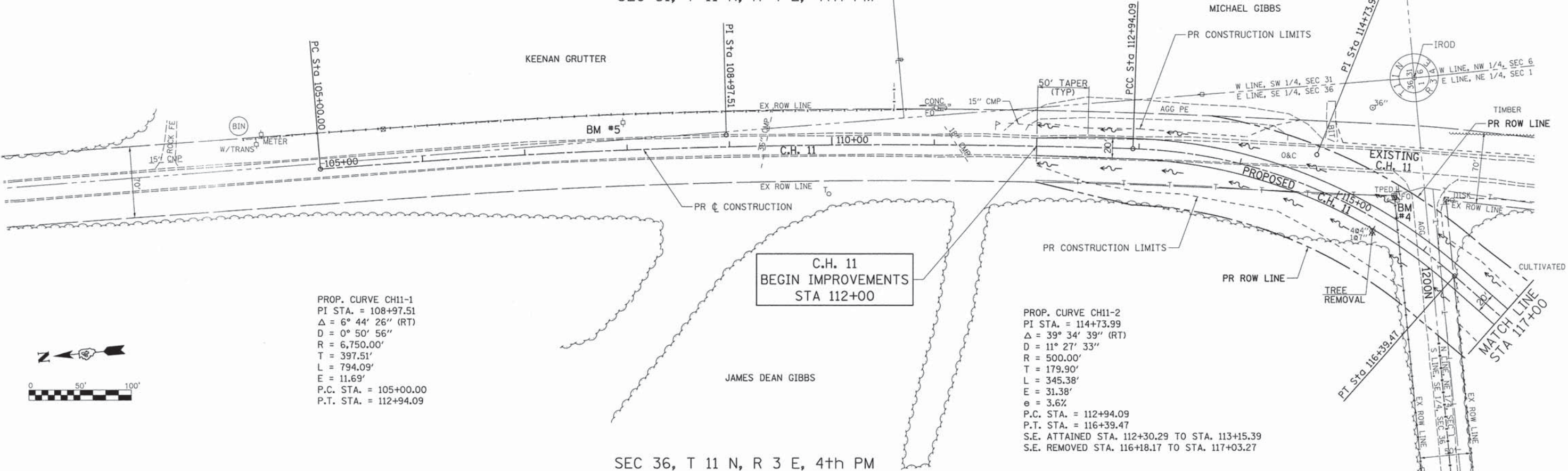
FENCE REMOVAL				
STATION	TO	STATION	SIDE	FOOT
1200N				
202+09.7	TO	205+61.0	LT	351.3
205+78.1	TO	C.H. 11	LT	635.7
TOTAL				987

ROADS & ENTRANCES				
STATION	TO	STATION	AGGREGATE SURFACE COURSE, TYPE A (8")	AGGREGATE SURFACE COURSE, TYPE A (12")
TON				
C.H. 11				
112+00.00	TO	121+76.00		1570.3
123+94.00	TO	130+00.00		962.2
ENT. STA. 120+00.0 (RT)			99.2	
1200N				
202+00.00	TO	210+03.93		1286.0
ENT. STA. 205+69.0 (LT)			53.5	
1800E				
302+00.00	TO	306+92.58		809.9
SUB-TOTAL			152.7	4628.4
TOTAL				4781

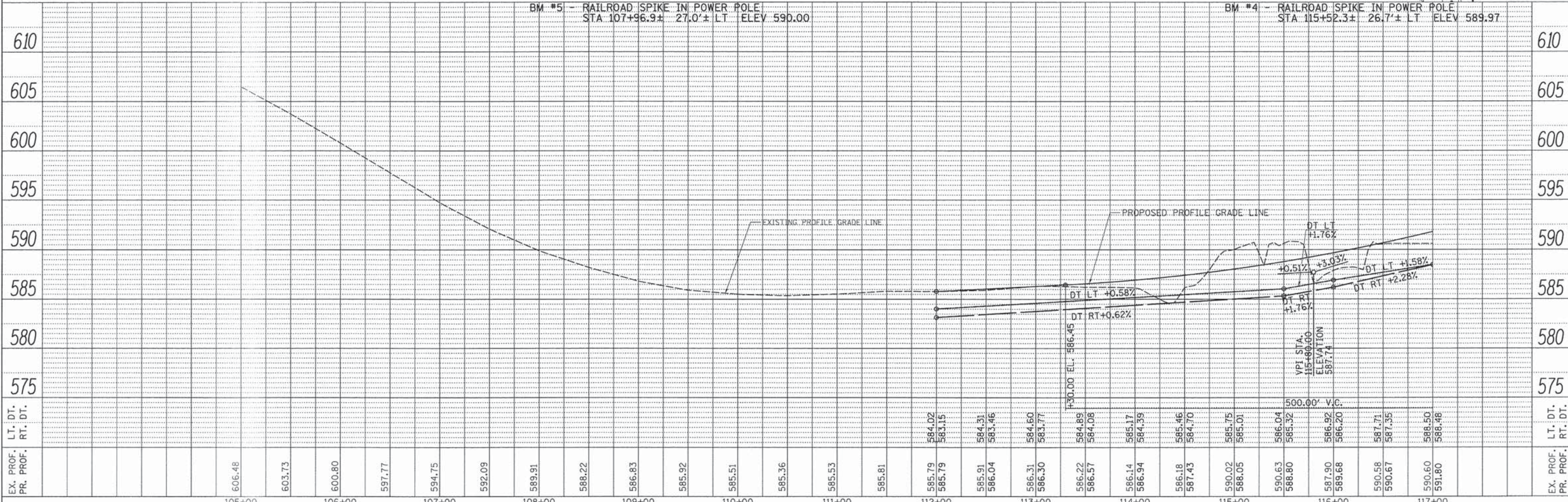
GUARDRAIL								
STATION	TO	STATION	SIDE	TRAFFIC BARRIER TERMINAL, TYPE 1, (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 5A	GUARDRAIL MARKERS, TYPE A		TERMINAL MARKER - DIRECT APPLIED
						MONO	SILVER	
						EACH		
C.H. 11								
121+10.0	TO	121+73.2	LT	1	1	2	1	
121+17.5	TO	121+80.7	RT	1	1	2	1	
123+89.3	TO	124+52.5	LT	1	1	2	1	
123+96.8	TO	124+60.0	RT	1	1	2	1	
TOTAL				4	4	8	4	

WOVEN WIRE FENCE, 4'				
STATION	TO	STATION	SIDE	FOOT
1200N				
202+10	TO	205+59	LT	354
205+79	TO	209+60	LT	506
TOTAL				860

SEC 31, T 11 N, R 4 E, 4th PM



SEC 36, T 11 N, R 3 E, 4th PM



DATE	
BY	
REVISIONS	
NO.	
PLAN	
NOTE BOOK	
NO.	
ALIGNED	
CHECKED	
FILE NAME	

DATE	
BY	
REVISIONS	
NO.	
PROFILE	
NOTE BOOK	
NO.	
GRADES CHECKED	
STRUCTURE NOTATIONS CHRD	

FILE NAME =	USER NAME = Shughes	DESIGNED - RMB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	C.H. 11 PLAN & PROFILE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V:\3504 - Knox Cnty - CH 11 - PH I\CADD\CADD Sheets\0489617-ahf-pln\prf-1.dgn	PLOT SCALE = 50.0000' / 1" =	DRAWN - SRH	REVISED -		N/A	12-00103-01-BR	KNOX	50	11		
Default	PLOT DATE = 3/30/2015	CHECKED - WSL	REVISED -		SCALE: H=50 V=5 SHEET 1 OF 2 SHEETS STA. 105+00 TO STA. 117+00			CONTRACT NO. 89617			
		DATE - 12/16/2014	REVISED -					ILLINOIS FED. AID PROJECT			

NOTE:
SEE DETAIL SHEET
FOR GUARDRAIL &
SHOULDER NOTES.

PROP. CURVE CH11-3
PI STA. = 120+03.73 P.C. STA. = 118+99.67
Δ = 38° 15' 40" (LT) P.T. STA. = 121+00.00
D = 19° 05' 55" TRANSITION FROM 0% TO 4.0%
R = 300.00' (CONTINUOUSLY ROTATING PLANE)
T = 104.06' FROM CURVE 1200N-1 STA. 209+42.44
L = 200.33' TO CURVE CH11-3 STA. 119+22.47
E = 17.54' S.E. REMOVED STA. 120+77.20
e = 4.0% TO STA. 121+68.40

① STA. 120+00.0
PIPE CULVERT, CLASS D, TYPE 2, 18"x58'
W/ END SECTIONS, 2-EACH (STD. 542401)
U.S.F.L. 585.47, STA. 119+80.8, 36.6' RT.
D.S.F.L. 582.59, STA. 120+32.2, 40.6' RT.

② STA. 127+57.6
PIPE CULVERT, CLASS C, TYPE 2, 24"x53'
W/ END SECTION, 1-EACH (STD. 542401)
U.S.F.L. 565.49, STA. 127+55.2, 20.7' RT.
D.S.F.L. 563.17, STA. 127+61.5, 31.3' LT.
RECONNECT EXISTING FLAP GATE AT
DOWNSTREAM END

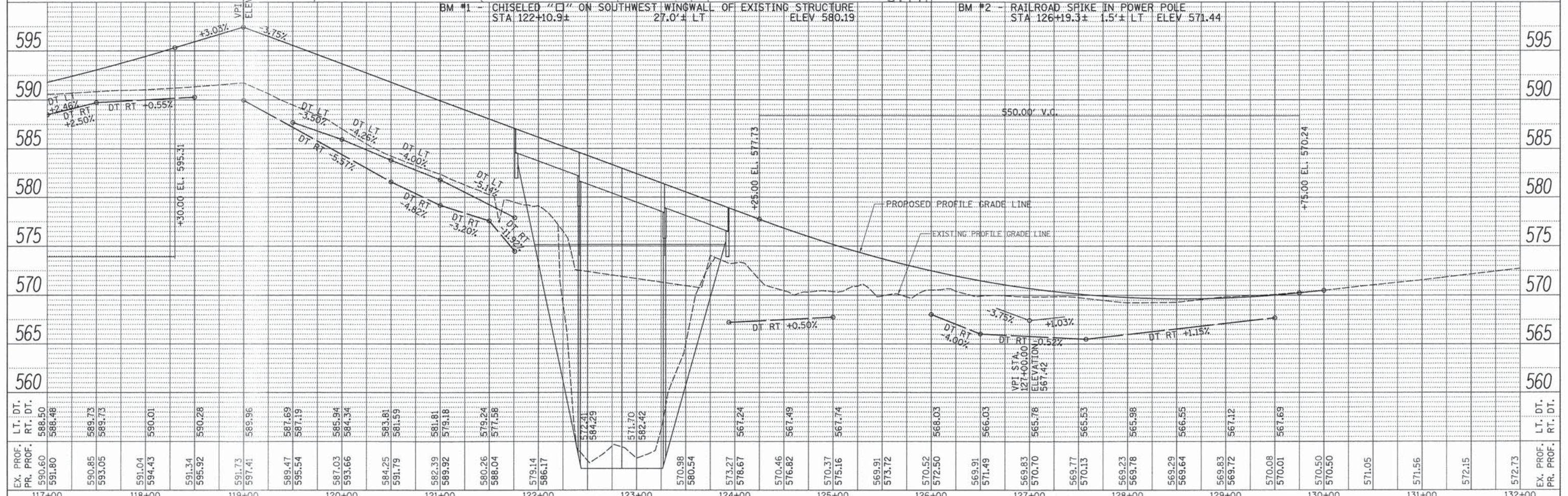
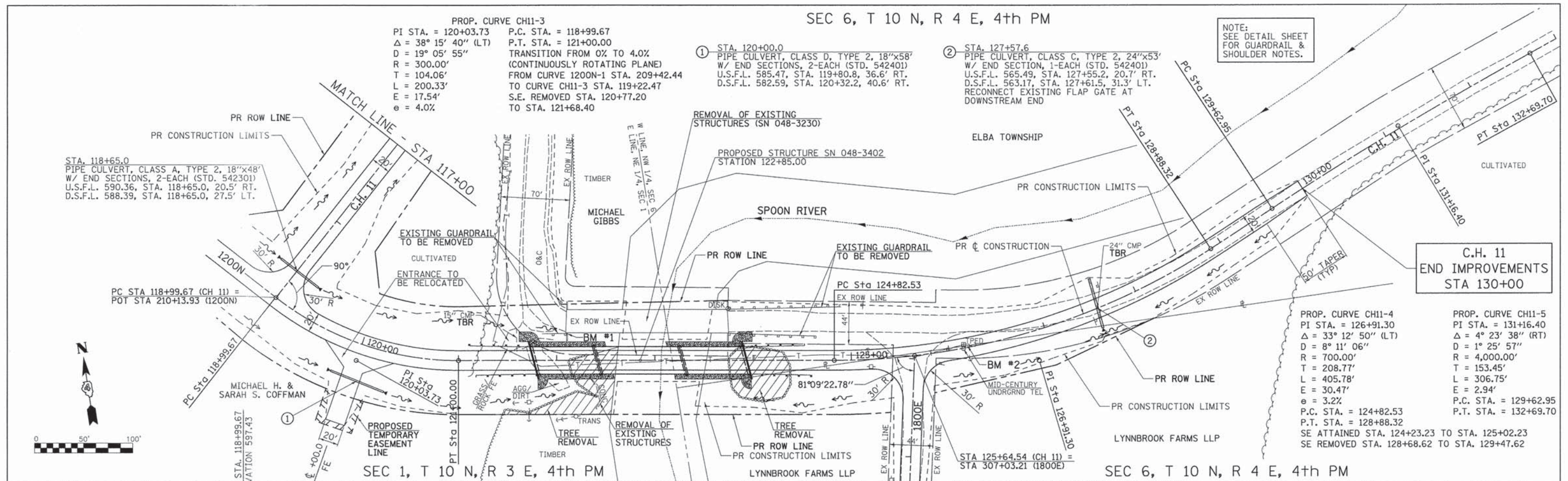
C.H. 11
END IMPROVEMENTS
STA 130+00

PROP. CURVE CH11-4
PI STA. = 126+91.30
Δ = 33° 12' 50" (LT)
D = 8° 11' 06"
R = 700.00'
T = 208.77'
L = 405.78'
E = 30.47'
e = 3.2%
P.C. STA. = 124+82.53
P.T. STA. = 128+88.32
SE ATTAINED STA. 124+23.23 TO STA. 125+02.23
SE REMOVED STA. 128+68.62 TO STA. 129+47.62

PROP. CURVE CH11-5
PI STA. = 131+16.40
Δ = 4° 23' 38" (RT)
D = 1° 25' 57"
R = 4,000.00'
T = 153.45'
L = 306.75'
E = 2.94'
P.C. STA. = 129+62.95
P.T. STA. = 132+69.70

DATE	
BY	
PLANNED	
NOTED	
NO.	
NO.	
NO.	
NO.	

DATE	
BY	
PLANNED	
NOTED	
NO.	
NO.	
NO.	
NO.	

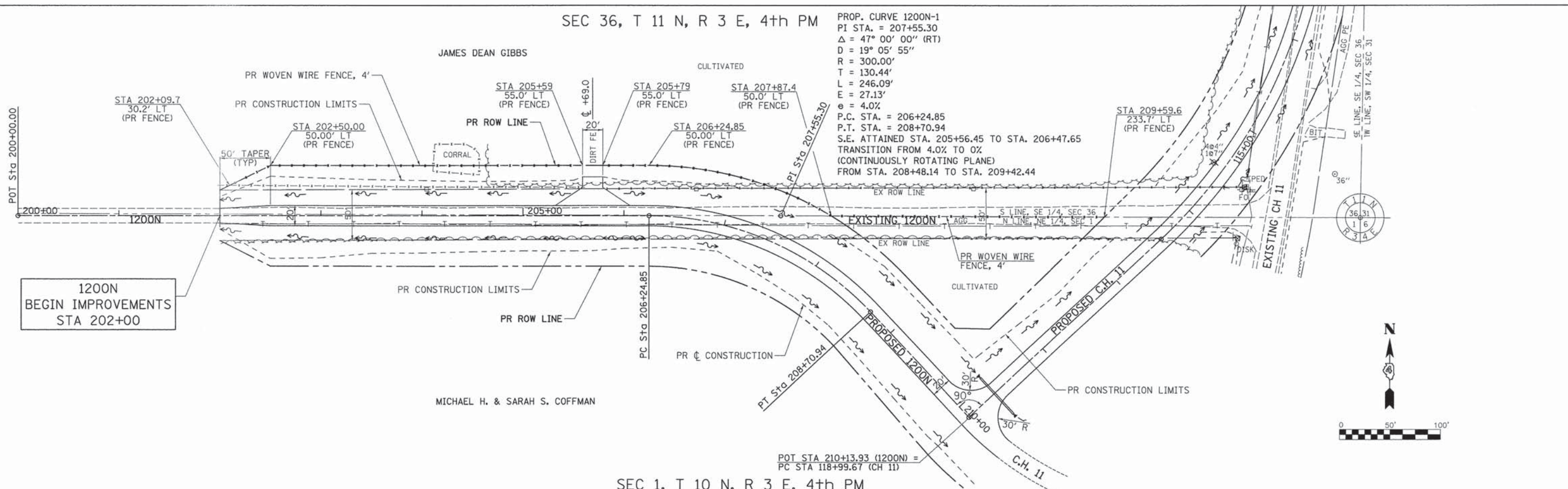


FILE NAME =	USER NAME = SHUGHES	DESIGNED - RMB	REVISED -	<p align="center">STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p> <p align="center">C.H. 11 PLAN & PROFILE</p>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V:\3584 - Knox Cnty - CH 11 - PH II\CADD\CADD Sheets\0489617-sht-plnprf-2.dgn		DRAWN - SRH	REVISED -		N/A	12-00103-01-BR	KNOX	50	12
PLOT SCALE = 50.0000' / in.		CHECKED - WSL	REVISED -		CONTRACT NO. 89617				
PLOT DATE = 3/30/2015		DATE - 12/16/2014	REVISED -		ILLINOIS FED. AID PROJECT				

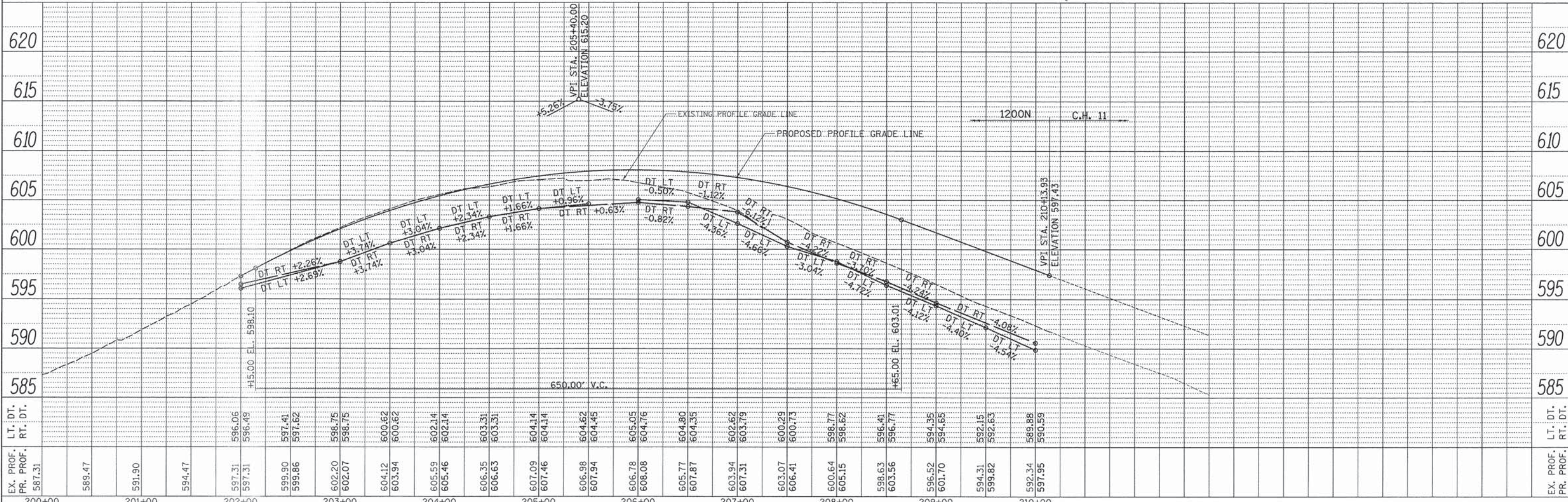
SCALE: H=50 V=5 SHEET 2 OF 2 SHEETS STA. 117+00 TO STA. 133+00

SEC 36, T 11 N, R 3 E, 4th PM

PROP. CURVE 1200N-1
 PI STA. = 207+55.30
 $\Delta = 47^\circ 00' 00''$ (RT)
 $D = 19^\circ 05' 55''$
 $R = 300.00'$
 $T = 130.44'$
 $L = 246.09'$
 $e = 4.0\%$
 P.C. STA. = 206+24.85
 P.T. STA. = 208+70.94
 S.E. ATTAINED STA. 205+56.45 TO STA. 206+47.65
 TRANSITION FROM 4.0% TO 0%
 (CONTINUOUSLY ROTATING PLANE)
 FROM STA. 208+48.14 TO STA. 209+42.44



SEC 1, T 10 N, R 3 E, 4th PM



EX. PROF. PR. PROF.	LT. DT. RT. DT.	200+00	201+00	202+00	203+00	204+00	205+00	206+00	207+00	208+00	209+00	210+00	EX. PROF. PR. PROF.	LT. DT. RT. DT.											
587.31				596.06 596.49	597.31 597.62	599.90 599.86	602.20 602.07	604.12 603.94	605.59 605.46	606.35 606.63	607.09 607.46	606.98 607.94	606.78 608.08	605.77 607.87	603.94 607.31	603.07 606.41	600.64 605.15	598.63 603.56	596.52 601.70	594.31 599.82	592.34 597.95				

PLAN	REGISTERED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	

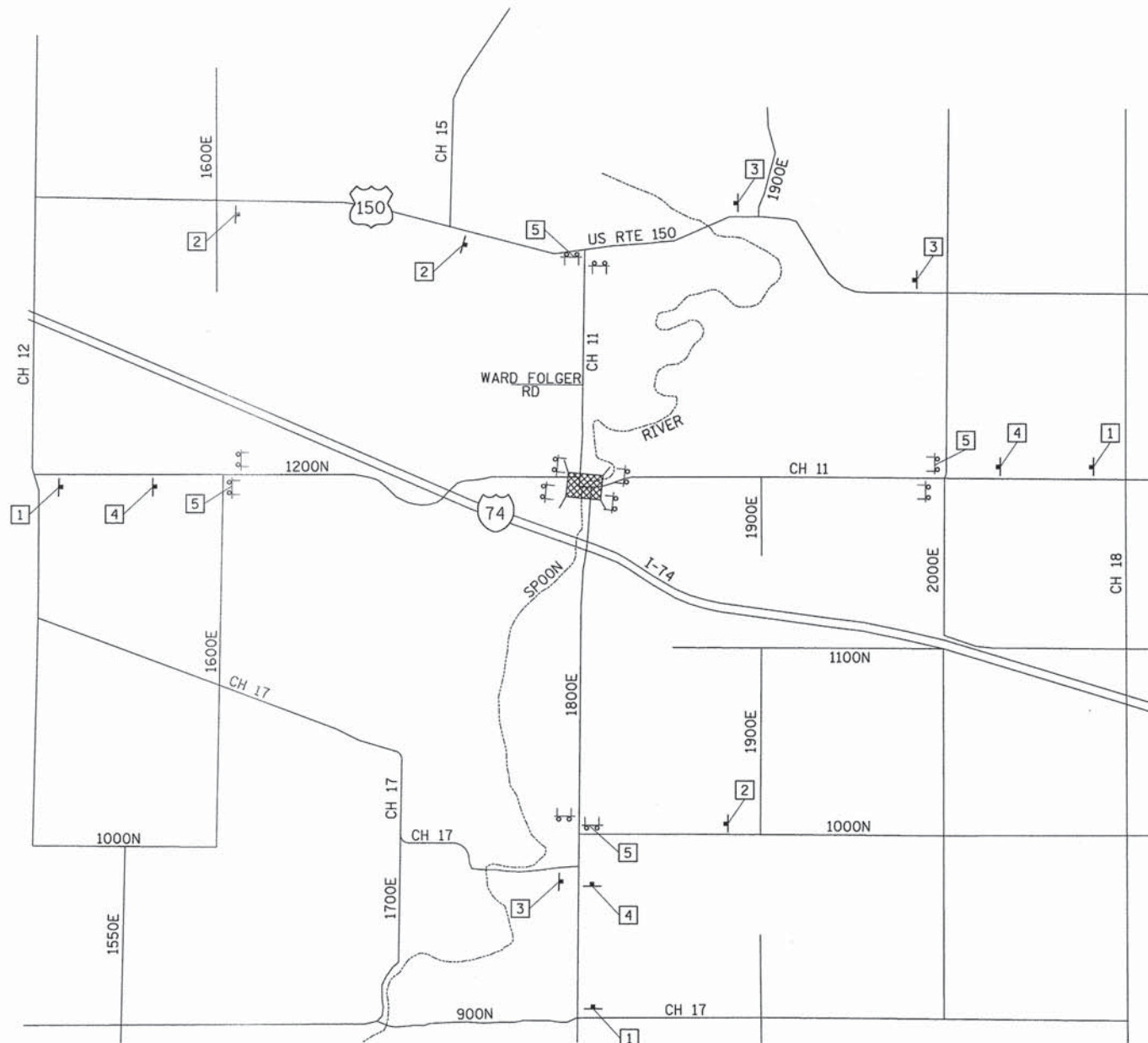
PROFILE	REGISTERED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	BY	
	NO.	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

1200N
 PLAN & PROFILE
 SCALE: H=50 V=5 SHEET 1 OF 1 SHEETS STA. 200+00 TO STA. 210+13.93

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00103-01-BR	KNOX	50	13
CONTRACT NO. 89617				
ILLINOIS FED. AID PROJECT				

FILE NAME =
 USER NAME = Shughes
 DRAWN - SRH
 CHECKED - WSL
 DATE - 8/4/2014



- LEGEND**
- T — POST MOUNTED SIGN
 - †† TYPE III BARRICADE
 - ▨▨▨▨ ROAD CLOSURE LOCATION

- SIGN KEY**
- 1
 - 2
 - 3
 - 4
 - 5

NOTES

TRAFFIC CONTROL SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR "TRAFFIC CONTROL AND PROTECTION, (SPECIAL)".
 DISTANCE BETWEEN ALL ADVANCE WARNING SIGNS SHOULD BE 500' PER THE LATEST EDITION OF MUTCD OR APPLICABLE HIGHWAY STANDARD.
 ALSO SEE IDOT HIGHWAY STANDARD BLR 22-7.

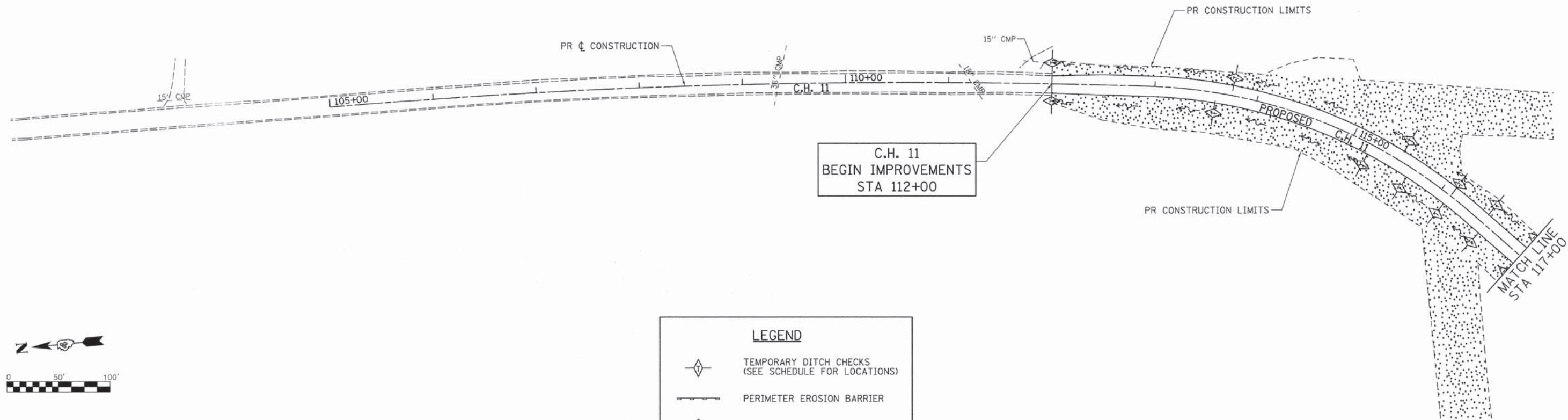


**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

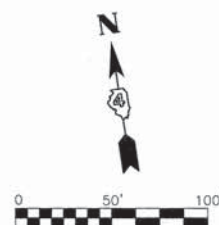
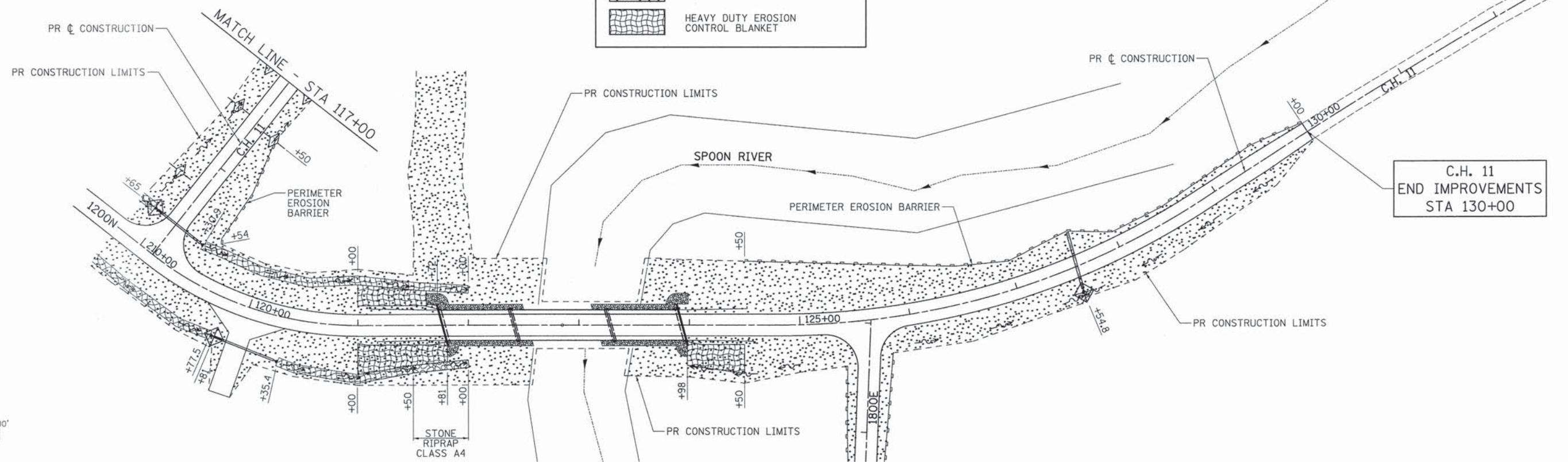
**C.H. 11
 TRAFFIC CONTROL PLAN**

FILE NAME =	USER NAME = Shughes	DESIGNED - WSL	REVISED -
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	PLOT SCALE = 1,000' / in.	CHECKED - WSL	REVISED -
	PLOT DATE = 3/30/2015	DATE - 1/19/2015	REVISED -

SCALE: N/A	SHEET NO. 1 OF 1 SHEETS	STA. N/A	TO STA. N/A	F.A. RTE. N/A	SECTION 12-00103-01-BR	COUNTY KNOX	TOTAL SHEETS 50	SHEET NO. 15
				CONTRACT NO. 89617				
				FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND	
	TEMPORARY DITCH CHECKS (SEE SCHEDULE FOR LOCATIONS)
	PERIMETER EROSION BARRIER
	INLET AND PIPE PROTECTION
	STONE RIPRAP, CLASS A4
	SEEDING, CLASS 2
	HEAVY DUTY EROSION CONTROL BLANKET



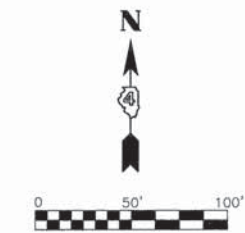
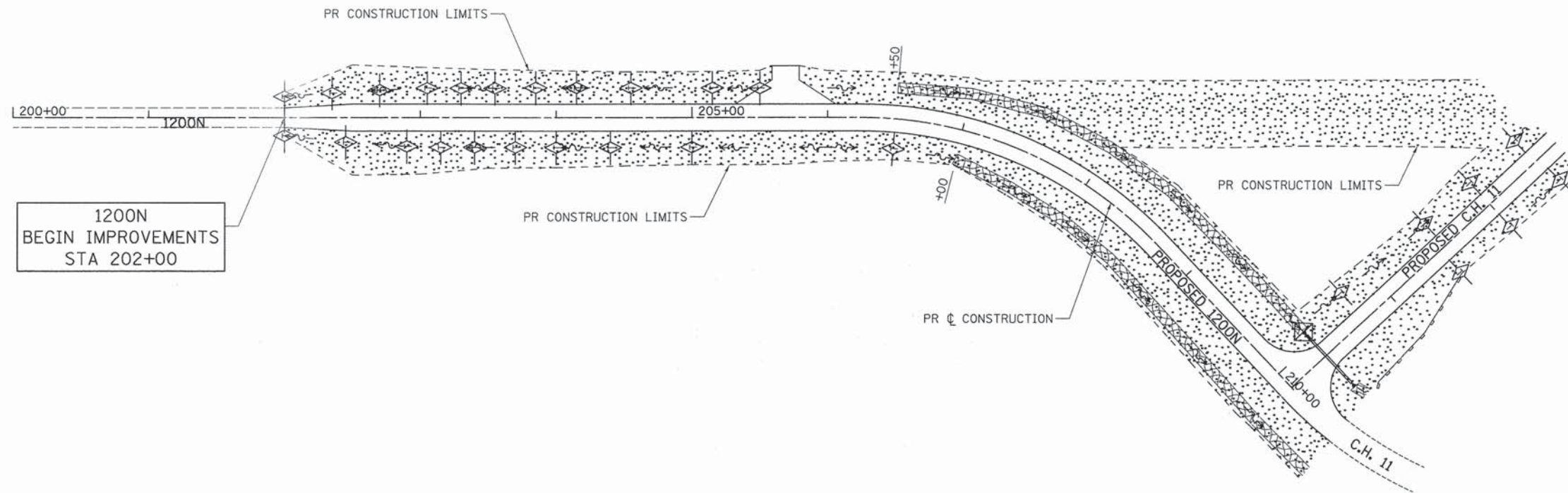
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V:\3504 - Knox Cnty - CH 11 - PH II\CADD\00 Sheets\0489617-sht-erov-1.dgn		DRAWN - SRH	REVISED -
Default		CHECKED - WSL	REVISED -
		DATE - 12/16/2014	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

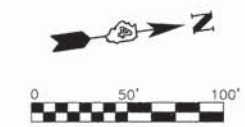
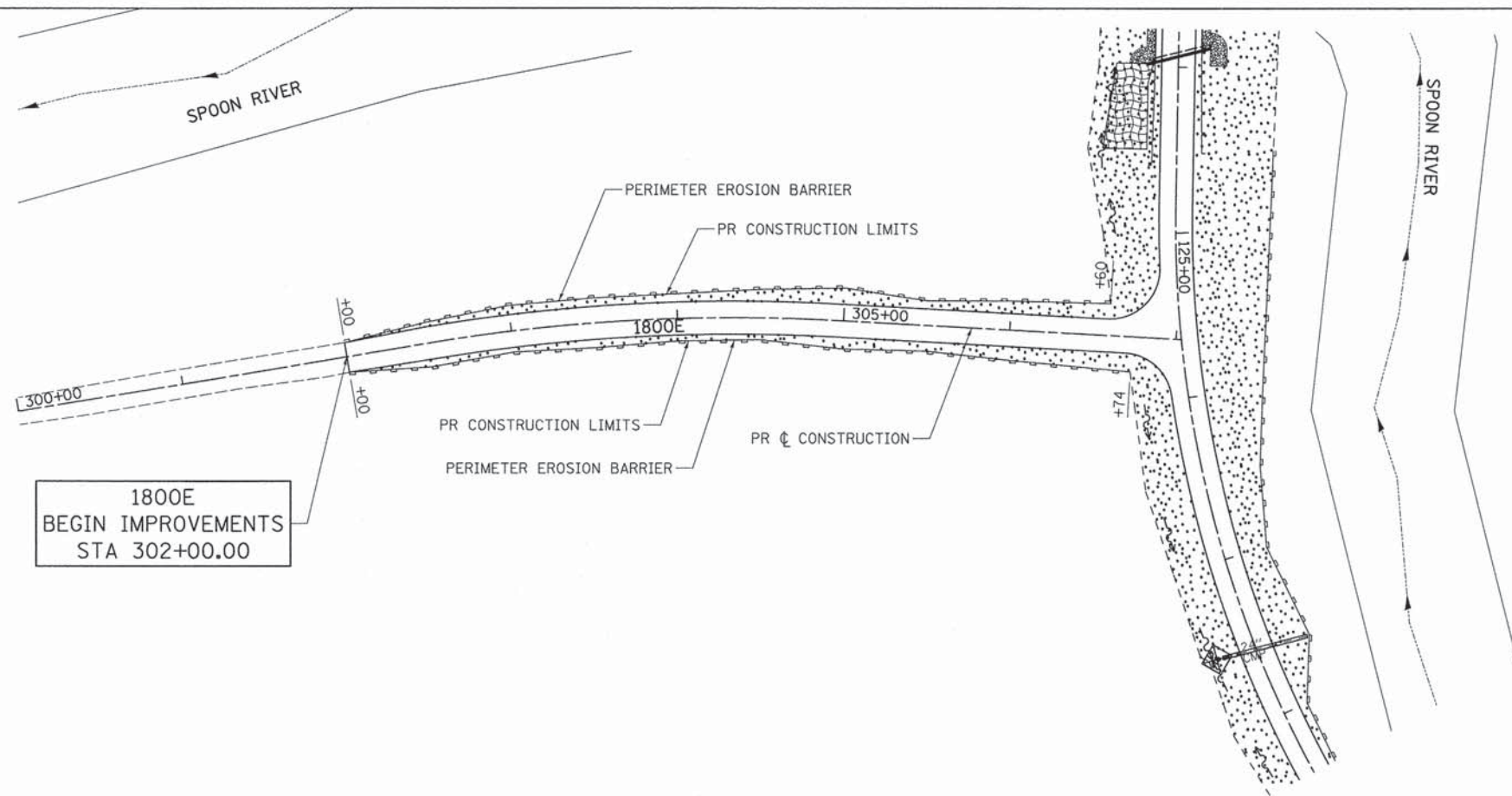
**C.H. 11
EROSION CONTROL PLAN**

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. 105+00 TO STA. 133+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00103-01-BR	KNOX	50	16
CONTRACT NO. 89617				
ILLINOIS FED. AID PROJECT				



LEGEND	
	TEMPORARY DITCH CHECKS (SEE SCHEDULE FOR LOCATIONS)
	PERIMETER EROSION BARRIER
	INLET AND PIPE PROTECTION
	STONE RIPRAP, CLASS A4
	SEEDING, CLASS 2
	HEAVY DUTY EROSION CONTROL BLANKET



FILE NAME =	USER NAME = S Hughes	DESIGNED - RMB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	1200N & 1800E EROSION CONTROL PLAN	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V:\3504 - Knox Cnty - CH 11 - PH 11\CADD\1100 Sheets\0489617-sht-arcs-2.dgn	DRAWN - SRH	REVISED -	N/A			12-00103-01-BR	KNOX	50	17	
Default	PLOT SCALE = 50.0000' / 1" =	CHECKED - WSL	REVISED -			CONTRACT NO. 89617				
	PLOT DATE = 3/30/2015	DATE - 8/4/2014	REVISED -			ILLINOIS FED. AID PROJECT				
					SCALE: 1"=50'	SHEET 2 OF 2 SHEETS		STA. 200+00 TO STA. 210+14.28		

NOTES:
 BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE
 COORDINATE SYSTEM, NAD 83 (2007 ADJ) - WEST ZONE

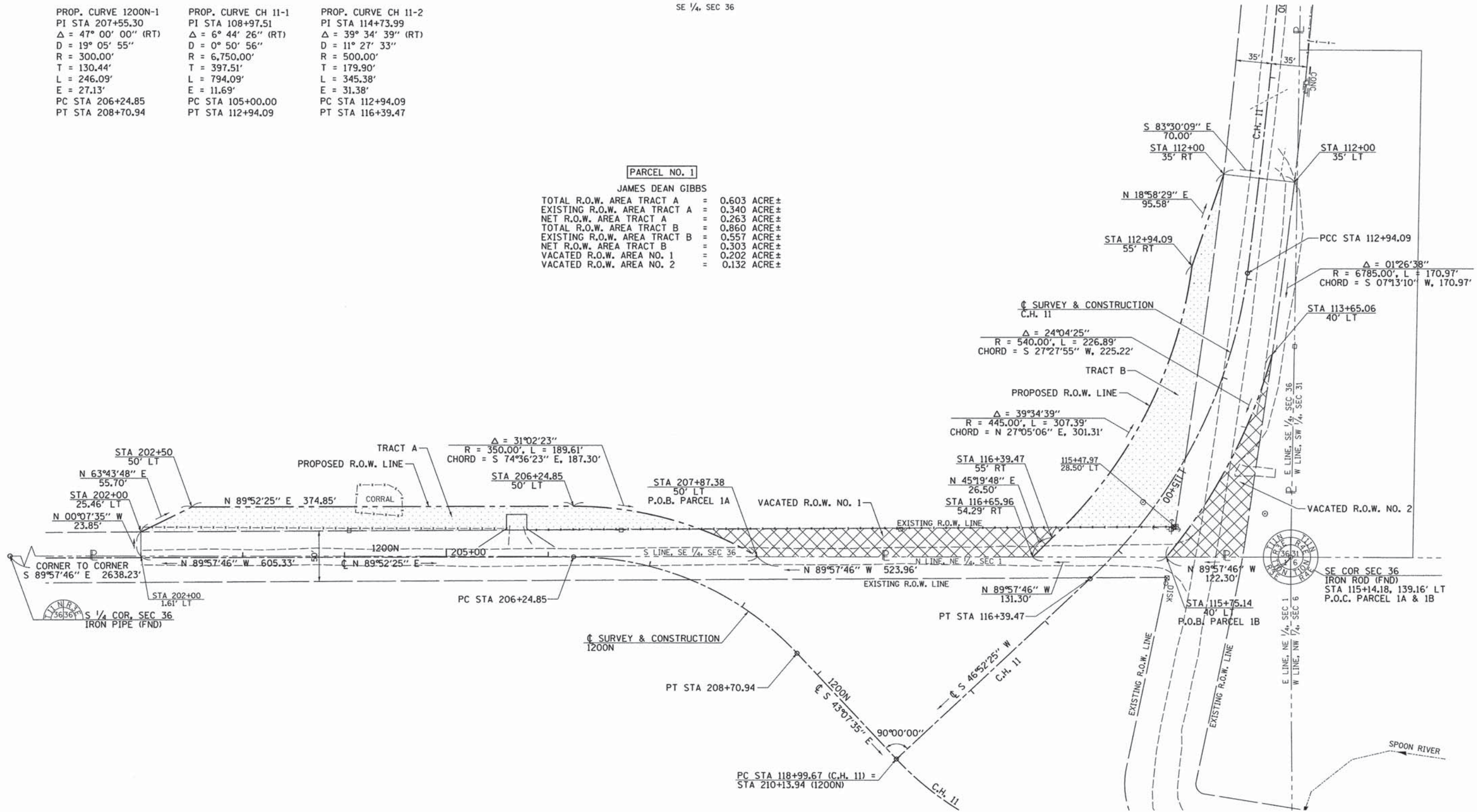
T 11 N, R 3 E, 4TH PM

SE 1/4, SEC 36

PROP. CURVE 1200N-1	PROP. CURVE CH 11-1	PROP. CURVE CH 11-2
PI STA 207+55.30	PI STA 108+97.51	PI STA 114+73.99
$\Delta = 47^\circ 00' 00''$ (RT)	$\Delta = 6^\circ 44' 26''$ (RT)	$\Delta = 39^\circ 34' 39''$ (RT)
D = 19° 05' 55"	D = 0° 50' 56"	D = 11° 27' 33"
R = 300.00'	R = 6,750.00'	R = 500.00'
T = 130.44'	T = 397.51'	T = 179.90'
L = 246.09'	L = 794.09'	L = 345.38'
E = 27.13'	E = 11.69'	E = 31.38'
PC STA 206+24.85	PC STA 105+00.00	PC STA 112+94.09
PT STA 208+70.94	PT STA 112+94.09	PT STA 116+39.47

PARCEL NO. 1
 JAMES DEAN GIBBS

TOTAL R.O.W. AREA TRACT A	= 0.603 ACRE±
EXISTING R.O.W. AREA TRACT A	= 0.340 ACRE±
NET R.O.W. AREA TRACT A	= 0.263 ACRE±
TOTAL R.O.W. AREA TRACT B	= 0.860 ACRE±
EXISTING R.O.W. AREA TRACT B	= 0.557 ACRE±
NET R.O.W. AREA TRACT B	= 0.303 ACRE±
VACATED R.O.W. AREA NO. 1	= 0.202 ACRE±
VACATED R.O.W. AREA NO. 2	= 0.132 ACRE±



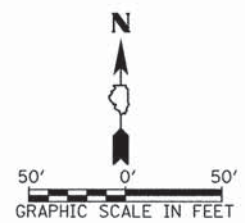
I, TIMOTHY C. QUIGG, A PROFESSIONAL LAND SURVEYOR IN THE STATE OF ILLINOIS DO HEREBY CERTIFY THAT THE PLAT AND DESCRIPTION HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY SUPERVISION. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



TIMOTHY C. QUIGG
 PROFESSIONAL LAND SURVEYOR NO. 3063 EXPIRES: 11/30/2016

LEGEND

	= PROPERTY LINE
	= TEMPORARY EASEMENT LINE
	= PERMANENT EASEMENT LINE
	= PROPOSED ROW LINE
	= SECTION LINE
	= EXISTING ROW LINE
	= REQUIRED ROW

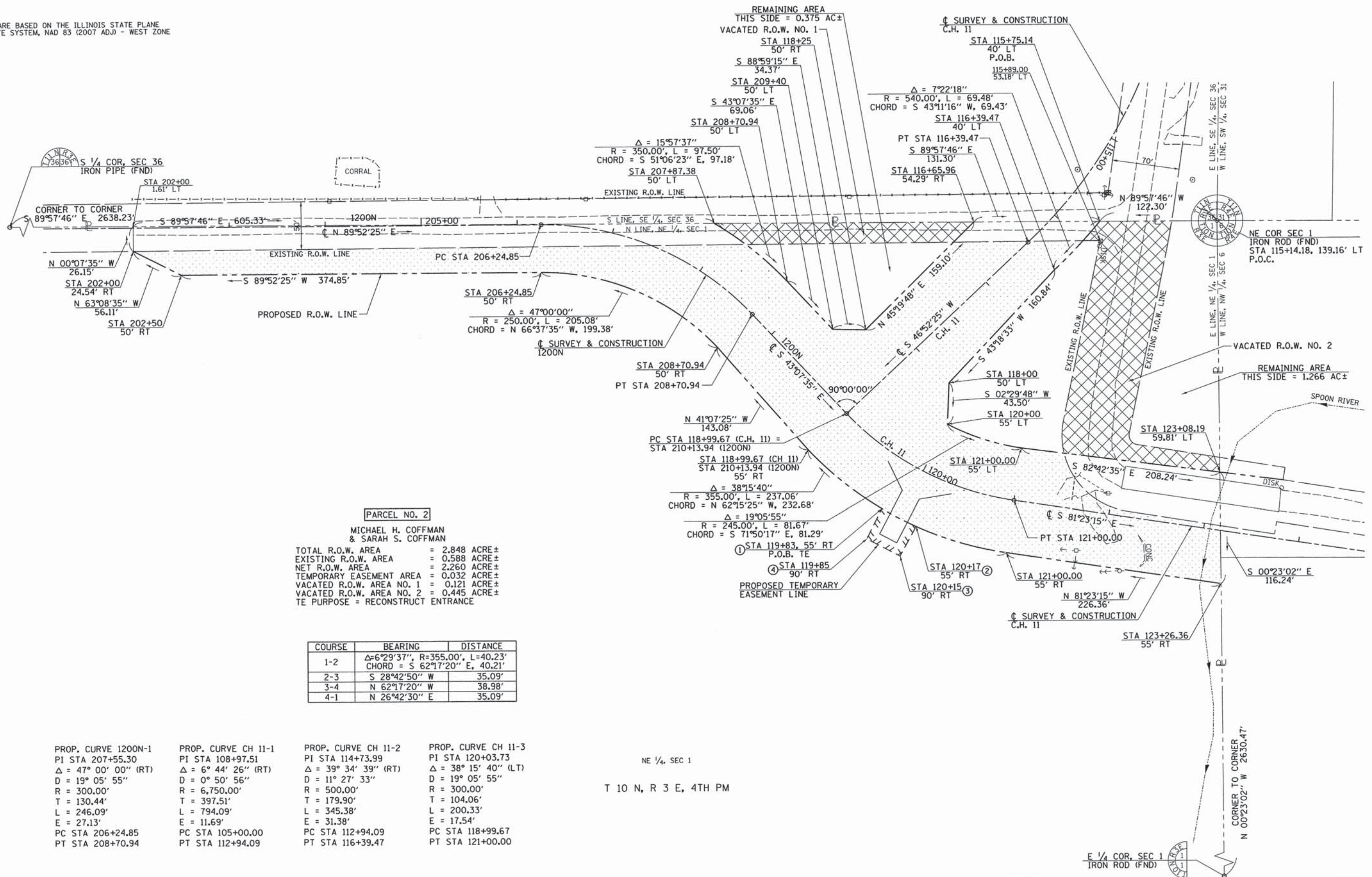


RIGHT OF WAY PLAT

PARCEL	1
ROUTE	C.H. 11
SECTION	12-00103-01-BR
COUNTY	KNOX
SCALE	1"=50'
SHEET NO.	1 OF 1

HUTCHISON ENGINEERING, INC.
 1801 W. LAFAYETTE AVE.
 P.O. BOX 820
 JACKSONVILLE, IL 62651
 ILLINOIS PROFESSIONAL DESIGN
 FIRM NO. 184-000825

NOTES:
 BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE
 COORDINATE SYSTEM, NAD 83 (2007 ADJ) - WEST ZONE



PARCEL NO. 2
 MICHAEL H. COFFMAN
 & SARAH S. COFFMAN

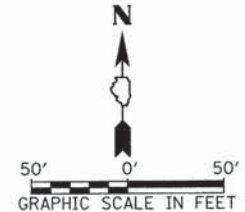
TOTAL R.O.W. AREA	= 2.848 ACRE±
EXISTING R.O.W. AREA	= 0.588 ACRE±
NET R.O.W. AREA	= 2.260 ACRE±
TEMPORARY EASEMENT AREA	= 0.032 ACRE±
VACATED R.O.W. AREA NO. 1	= 0.121 ACRE±
VACATED R.O.W. AREA NO. 2	= 0.445 ACRE±
TE PURPOSE	= RECONSTRUCT ENTRANCE

COURSE	BEARING	DISTANCE
1-2	Δ=6°29'37", R=355.00', L=40.23' CHORD = S 62°17'20" E, 40.21'	
2-3	S 28°42'50" W	35.09'
3-4	N 62°17'20" W	38.98'
4-1	N 26°42'30" E	35.09'

PROP. CURVE 1200N-1 PI STA 207+55.30 Δ = 47° 00' 00" (RT) D = 19° 05' 55" R = 300.00' T = 130.44' L = 246.09' E = 27.13' PC STA 206+24.85 PT STA 208+70.94	PROP. CURVE CH 11-1 PI STA 108+97.51 Δ = 6° 44' 26" (RT) D = 0° 50' 56" R = 6,750.00' T = 397.51' L = 794.09' E = 11.69' PC STA 105+00.00 PT STA 112+94.09	PROP. CURVE CH 11-2 PI STA 114+73.99 Δ = 39° 34' 39" (RT) D = 11° 27' 33" R = 500.00' T = 179.90' L = 345.38' E = 31.38' PC STA 112+94.09 PT STA 116+39.47	PROP. CURVE CH 11-3 PI STA 120+03.73 Δ = 38° 15' 40" (LT) D = 19° 05' 55" R = 300.00' T = 104.06' L = 200.33' E = 17.54' PC STA 118+99.67 PT STA 121+00.00
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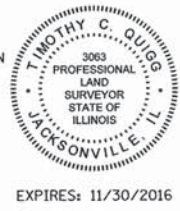
NE 1/4, SEC 1
 T 10 N, R 3 E, 4TH PM

- LEGEND**
- = PROPERTY LINE
 - = TEMPORARY EASEMENT LINE
 - = PERMANENT EASEMENT LINE
 - = PROPOSED ROW LINE
 - = SECTION LINE
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Timothy C. Quigg 11/9/15
 TIMOTHY C. QUIGG
 PROFESSIONAL LAND SURVEYOR NO. 3063



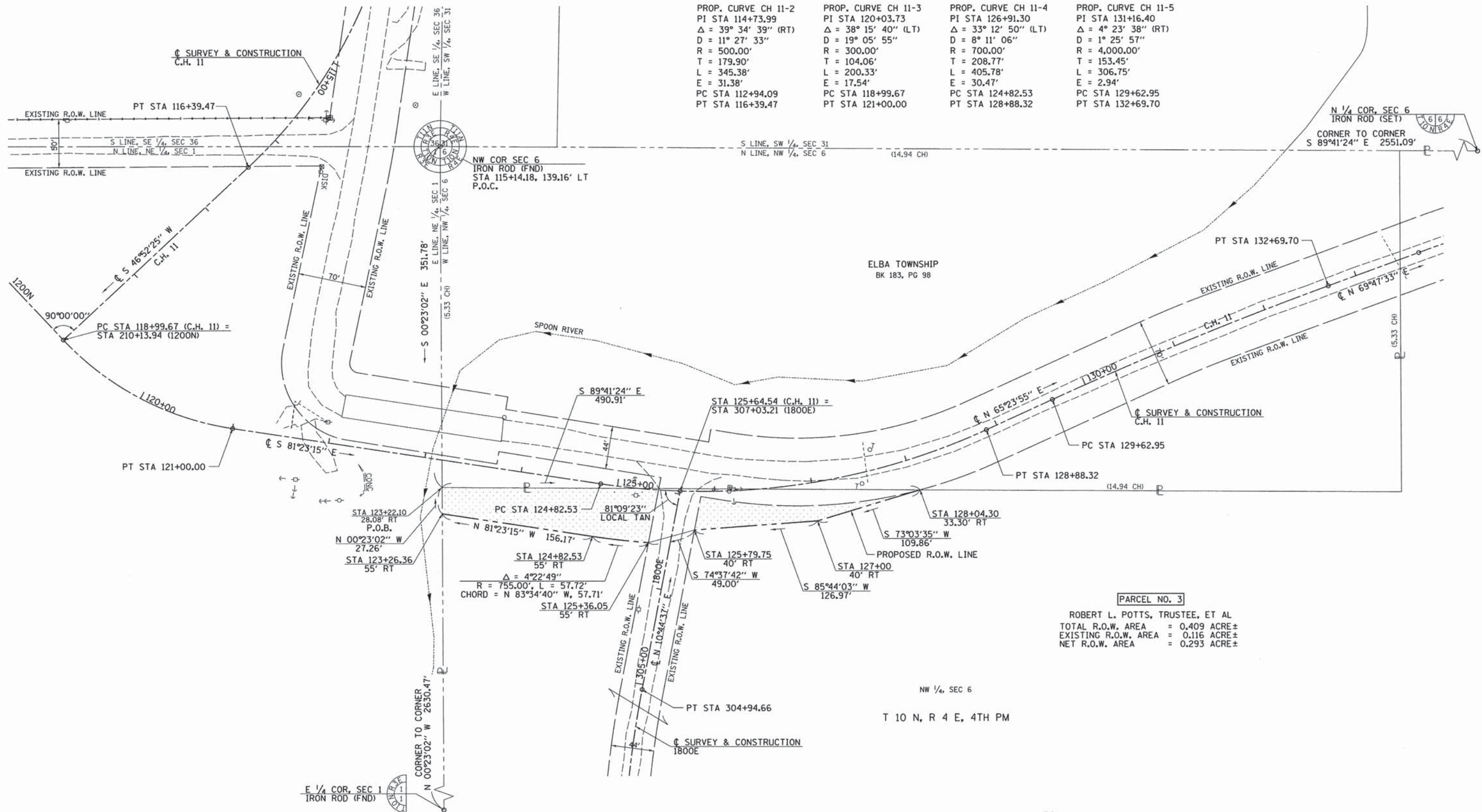
HUTCHISON ENGINEERING, INC.
 1801 W. LAFAYETTE AVE.
 P.O. BOX 820
 JACKSONVILLE, IL 62651
 ILLINOIS PROFESSIONAL DESIGN
 FIRM NO. 184-000825

RIGHT OF WAY PLAT

PARCEL	2
ROUTE	C.H. 11
SECTION	12-00103-01-BR
COUNTY	KNOX
SCALE:	1"=50'
SHEET NO.	1 OF 1

NOTES:
 BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE
 COORDINATE SYSTEM, NAD 83 (2007 ADJ) - WEST ZONE

PROP. CURVE CH 11-2	PROP. CURVE CH 11-3	PROP. CURVE CH 11-4	PROP. CURVE CH 11-5
PI STA 114+73.99	PI STA 120+03.73	PI STA 126+91.30	PI STA 131+16.40
$\Delta = 39^\circ 34' 39''$ (RT)	$\Delta = 38^\circ 15' 40''$ (LT)	$\Delta = 33^\circ 12' 50''$ (LT)	$\Delta = 4^\circ 23' 38''$ (RT)
D = $11^\circ 27' 33''$	D = $19^\circ 05' 55''$	D = $8^\circ 11' 06''$	D = $1^\circ 25' 57''$
R = 500.00'	R = 300.00'	R = 700.00'	R = 4,000.00'
T = 179.90'	T = 104.06'	T = 208.77'	T = 153.45'
L = 345.38'	L = 200.33'	L = 405.78'	L = 306.75'
E = 31.38'	E = 17.54'	E = 30.47'	E = 2.94'
PC STA 112+94.09	PC STA 118+99.67	PC STA 124+82.53	PC STA 129+62.95
PT STA 116+39.47	PT STA 121+00.00	PT STA 128+88.32	PT STA 132+69.70

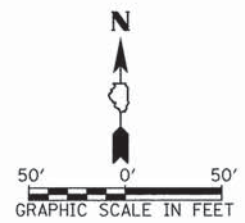


PARCEL NO. 3
 ROBERT L. POTTS, TRUSTEE, ET AL
 TOTAL R.O.W. AREA = 0.409 ACRE±
 EXISTING R.O.W. AREA = 0.116 ACRE±
 NET R.O.W. AREA = 0.293 ACRE±

NW 1/4, SEC 6
 T 10 N, R 4 E, 4TH PM

LEGEND

	= PROPERTY LINE
	= TEMPORARY EASEMENT LINE
	= PERMANENT EASEMENT LINE
	= PROPOSED ROW LINE
	= SECTION LINE
	= EXISTING ROW LINE
	= REQUIRED ROW



RIGHT OF WAY PLAT

PARCEL	3
ROUTE	C.H. 11
SECTION	12-00103-01-BR
COUNTY	KNOX
SCALE:	1"=50'
SHEET NO.	1 OF 1

I, TIMOTHY C. QUIGG, A PROFESSIONAL LAND SURVEYOR IN THE STATE OF ILLINOIS DO HEREBY CERTIFY THAT THE PLAT AND DESCRIPTION HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SURVEY MADE UNDER MY SUPERVISION. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

Timothy C. Quigg
 TIMOTHY C. QUIGG
 PROFESSIONAL LAND SURVEYOR NO. 3063
 EXPIRES: 11/30/2016

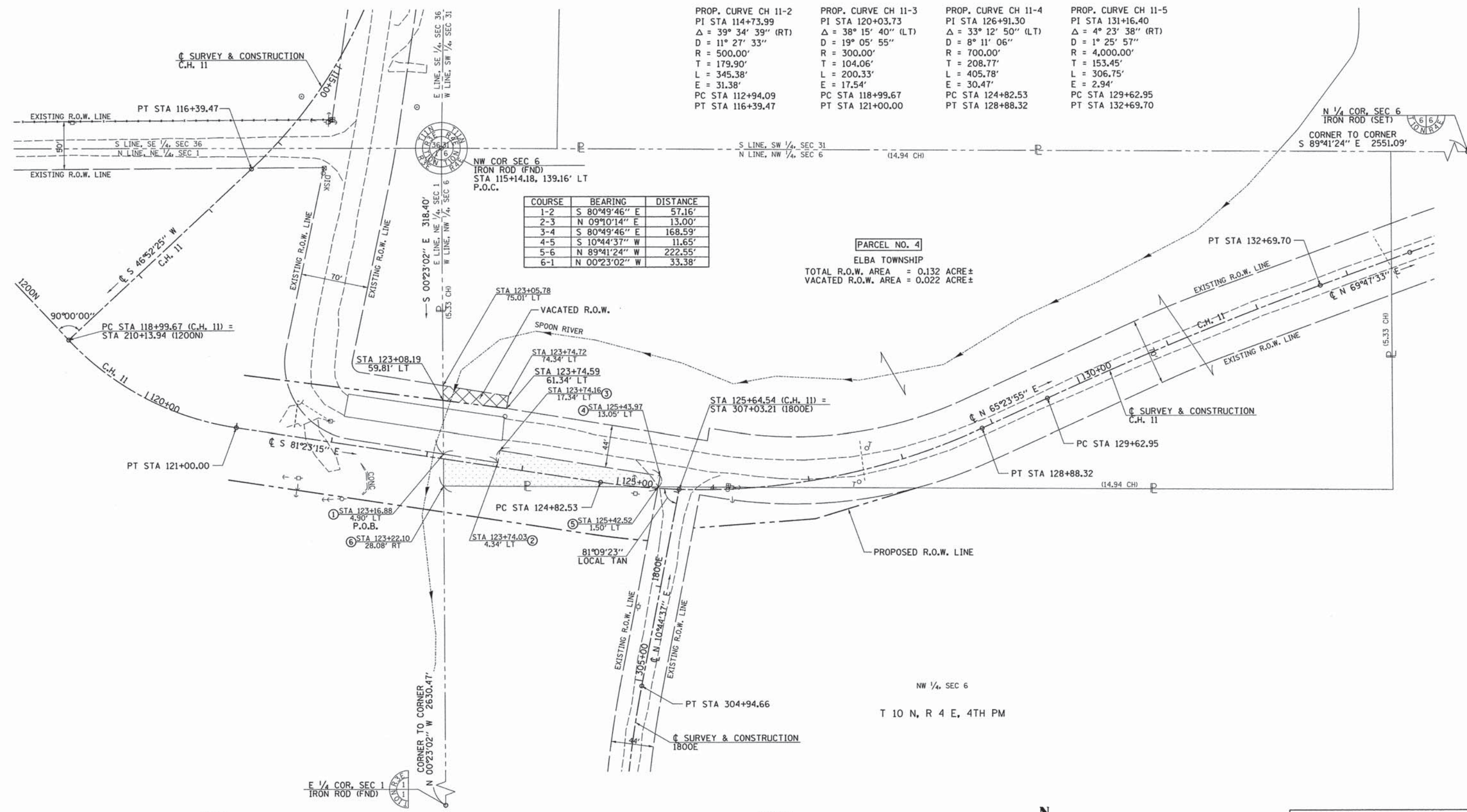
HUTCHISON ENGINEERING, INC.
 1801 W. LAFAYETTE AVE.
 P.O. BOX 820
 JACKSONVILLE, IL 62651
 ILLINOIS PROFESSIONAL DESIGN
 FIRM NO. 184-000825

NOTES:
 BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE
 COORDINATE SYSTEM, NAD 83 (2007 ADJ) - WEST ZONE

PROP. CURVE CH 11-2	PROP. CURVE CH 11-3	PROP. CURVE CH 11-4	PROP. CURVE CH 11-5
PI STA 114+73.99	PI STA 120+03.73	PI STA 126+91.30	PI STA 131+16.40
$\Delta = 39^\circ 34' 39''$ (RT)	$\Delta = 38^\circ 15' 40''$ (LT)	$\Delta = 33^\circ 12' 50''$ (LT)	$\Delta = 4^\circ 23' 38''$ (RT)
D = 11° 27' 33"	D = 19° 05' 55"	D = 8° 11' 06"	D = 1° 25' 57"
R = 500.00'	R = 300.00'	R = 700.00'	R = 4,000.00'
T = 179.90'	T = 104.06'	T = 208.77'	T = 153.45'
L = 345.38'	L = 200.33'	L = 405.78'	L = 306.75'
E = 31.38'	E = 17.54'	E = 30.47'	E = 2.94'
PC STA 112+94.09	PC STA 118+99.67	PC STA 124+82.53	PC STA 129+62.95
PT STA 116+39.47	PT STA 121+00.00	PT STA 128+88.32	PT STA 132+69.70

COURSE	BEARING	DISTANCE
1-2	S 80°49'46" E	57.16'
2-3	N 09°10'14" E	13.00'
3-4	S 80°49'46" E	168.59'
4-5	S 10°44'37" W	11.65'
5-6	N 89°41'24" W	222.55'
6-1	N 00°23'02" W	33.38'

PARCEL NO. 4
 ELBA TOWNSHIP
 TOTAL R.O.W. AREA = 0.132 ACRE±
 VACATED R.O.W. AREA = 0.022 ACRE±



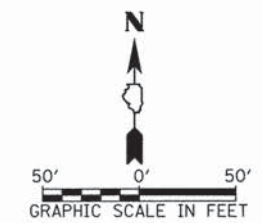
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Timothy C. Quigg 1/9/15
 TIMOTHY C. QUIGG
 PROFESSIONAL LAND SURVEYOR NO. 3063 EXPIRES: 11/30/2016



LEGEND

	= PROPERTY LINE
	= TEMPORARY EASEMENT LINE
	= PERMANENT EASEMENT LINE
	= PROPOSED ROW LINE
	= SECTION LINE
	= EXISTING ROW LINE
	= REQUIRED ROW



RIGHT OF WAY PLAT

PARCEL	4
ROUTE	C.H. 11
SECTION	12-00103-01-BR
COUNTY	KNOX
SCALE:	1"=50'
SHEET NO.	1 OF 1

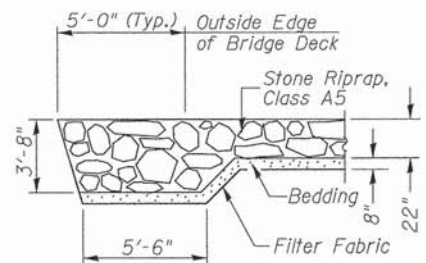
HUTCHISON ENGINEERING, INC.
 1801 W. LAFAYETTE AVE.
 P.O. BOX 820
 JACKSONVILLE, IL 62651
 ILLINOIS PROFESSIONAL DESIGN
 FIRM NO. 184-000825

B.M.: Chsd. "□" on SW Wingwall of Existing Structure Sta. 122+11, 27' Lt. Elev. 580.19
 RR Spike in Power Pole Sta. 126+19, 2' Lt. Elev. 571.44

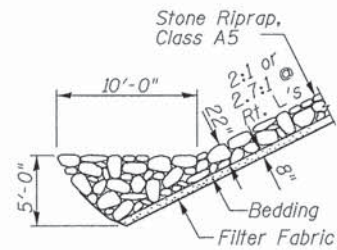
Existing Structure:
 Four span PPC deck beam superstructure on solid stem concrete piers and open bent abutments. The structure is ±165'-0" back to back of abutments, 24'-0" out to out deck, and is not skewed. Str. No. 048-3230

Salvage: 5 PPC Deck Beams - See Special Provisions

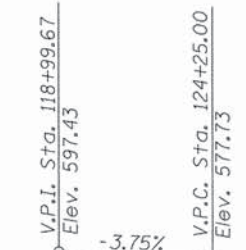
Bridge to remain open during construction.



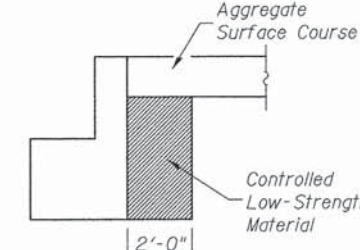
SECTION A-A



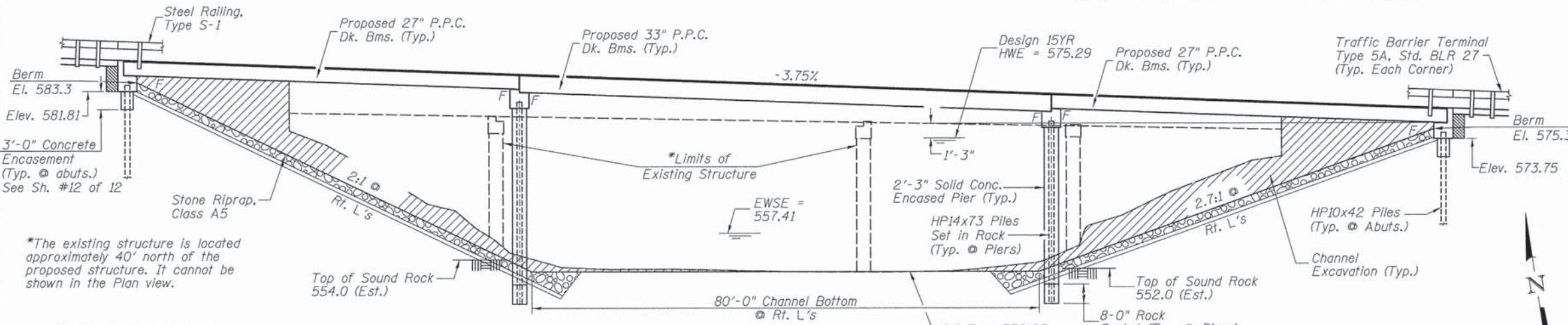
SECTION B-B



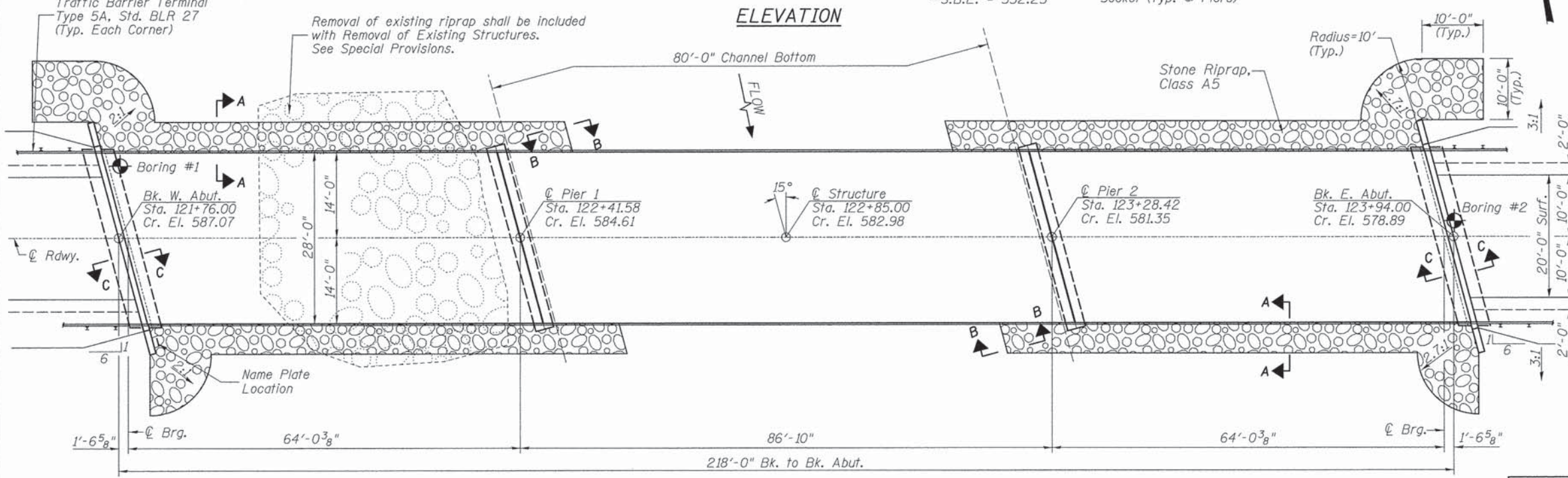
PROFILE GRADE



SECTION C-C



ELEVATION



PLAN

GENERAL NOTES

The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the substructures specified or approved by the Engineer before ordering the remainder of the piles.
 For Soil Boring Logs, See Special Provisions.
 A Corrosion Inhibitor shall be used in the concrete for Precast Prestressed Concrete Deck Beams according to Article 1020.05(b)(12) of the Standard Specifications.
 Reinforcement Bars shall conform to the requirements of ASTM A706 Grade 60. Reinforcement Bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	CU YD		1,675	1,675
Stone Riprap, Class A5	TON		900	900
Filter Fabric	SQ YD		740	740
① Removal of Existing Structures	EACH			1
Structure Excavation	CU YD		80	80
Cofferdam Excavation	CU YD		20	20
Rock Excavation	CU YD		20	20
Concrete Structures	CU YD		182.7	182.7
① Precast Prestressed Concrete Deck Beams (27" Depth)	SQ FT	3,617		3,617
① Precast Prestressed Concrete Deck Beams (33" Depth)	SQ FT	2,429		2,429
① Reinforcement Bars, Epoxy Coated	POUND		13,330	13,330
Steel Railing, Type S-1	FOOT	436		436
Furnishing Steel Piles HP10x42	FOOT		220	220
Furnishing Steel Piles HP14x73	FOOT		444	444
Driving Piles	FOOT		220	220
Test Pile Steel HP10x42	EACH		2	2
① Setting Piles in Rock	EACH		12	12
Concrete Encasement	CU YD		3.4	3.4
Name Plates	EACH		1	1
① Controlled Low-Strength Material	CU YD		18.5	18.5
① Cofferdam (Type 1) (Location-1) (Pier #1)	EACH		1	1
① Cofferdam (Type 1) (Location-2) (Pier #2)	EACH		1	1

① See Special Provisions

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specification for Highway Bridges.
 This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

[Signature] 3/10/2015
 Illinois Structural No. 6440
 Expires 11/30/2016



WATERWAY INFORMATION

Drainage Area = 766.15 Sq. Mi.		Low Grade Elev. = 569.56 @ Sta. 128+60.42	
Flood Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Nat. Head - Ft. Exist.
15	22,029	2,573	2,983
Design		2,573	2,983
Base	100	34,164	2,783

OVER-THE-ROAD AREA

Freq. Yr.	Existing	Proposed
15	3,468	2,883
100	5,925	5,112

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications 7th Edition

DESIGN STRESSES

(FIELD UNITS) f'c = 3,500 p.s.i. fy = 60,000 p.s.i. (Rein.)
 (PRECAST PRESTRESSED UNITS) f'c = 6,000 p.s.i. f'ci = 5,000 p.s.i. f's = 270,000 p.s.i. (1/2" Strands) f'si = 201,960 p.s.i. (1/2" Strands)

LOADING HL-93

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



SPoon RIVER BUILT 201- BY KNOX COUNTY SEC. 12-00103-01-BR C.H. 11 STATION 122+85.00 F.A. PROJ. BROS-0095(136) STR. NO. 048-3402 LOADING HL-93

NAME PLATE

Locate Name Plate at S.W. Wingwall Corner of Bridge (See Std. 515001)

GENERAL PLAN & ELEVATION

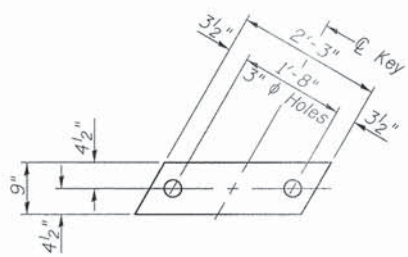
KNOX COUNTY SECTION 12-00103-01-BR C.H. 11 OVER SPOON RIVER

DESIGNED	S.T.M.
CHECKED	C.T.M./J.E.H.
DRAWN	S.T.M.
CHECKED	C.T.M./J.E.H.

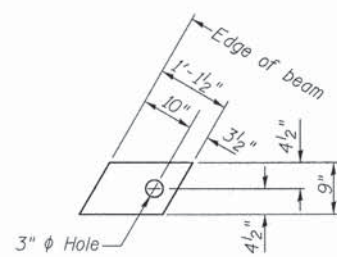
DESIGN SCOUR TABLE

Location	W. Abut	Pier 1	Pier 2	E. Abut
Design Scour Elevation	581.81	549.67	549.66	573.75

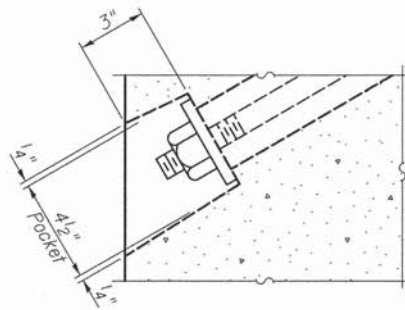
Construction of this project complies with IDNR, Office of Water Resources Statewide Permit No. 2



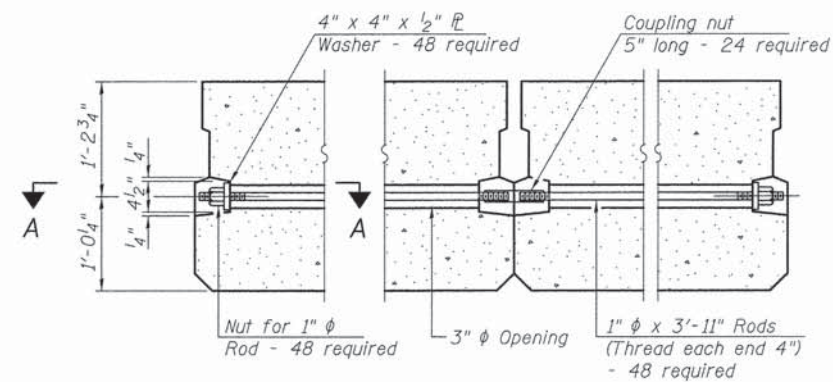
1/2" FABRIC BEARING PAD
(Interior) 24 Required



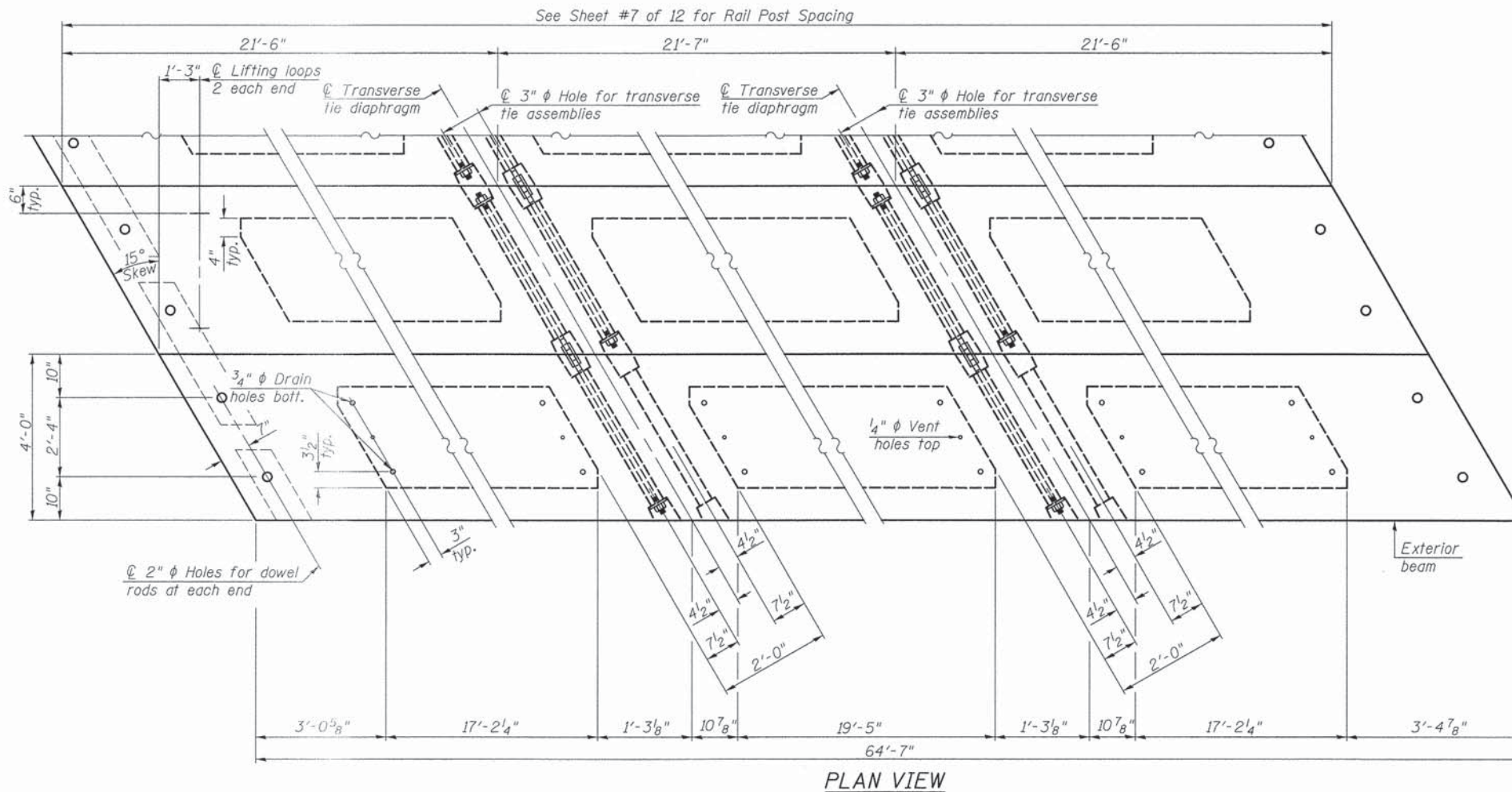
1/2" FABRIC BEARING PAD
(Exterior) 8 Required
FIXED



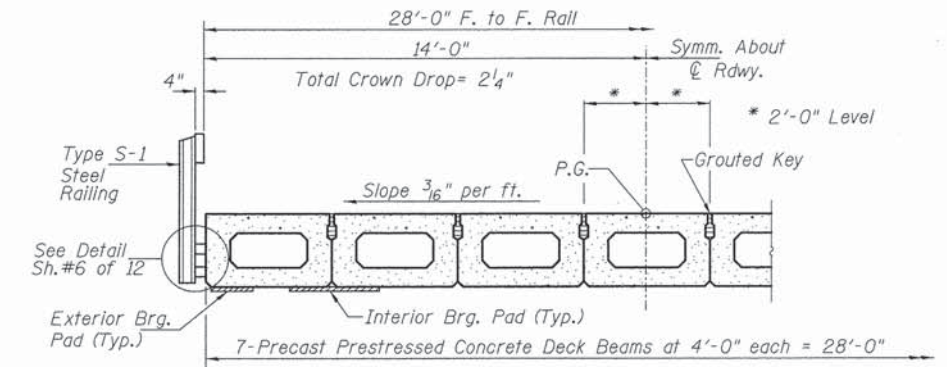
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW



HALF CROSS SECTION

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
① Precast Prestressed Concrete Deck Beams (27" Depth)	SQ FT	3,617
② See Special Provisions		

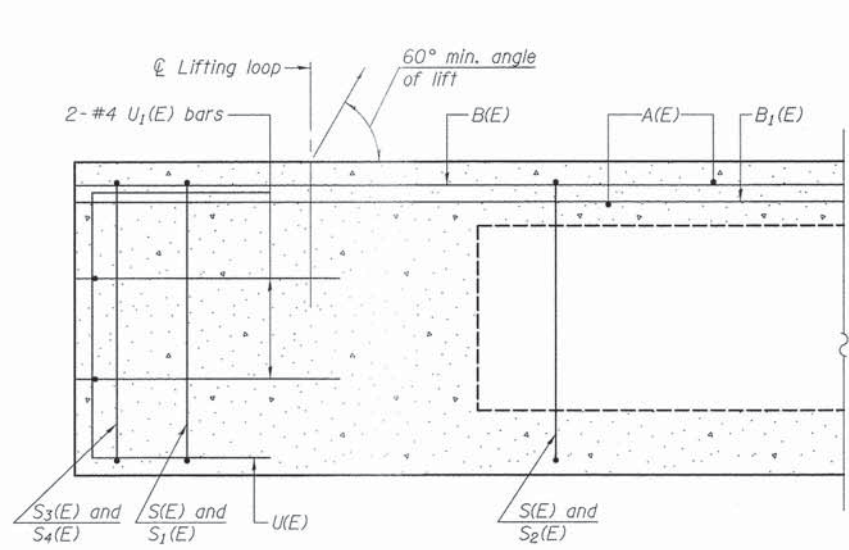
NOTES

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

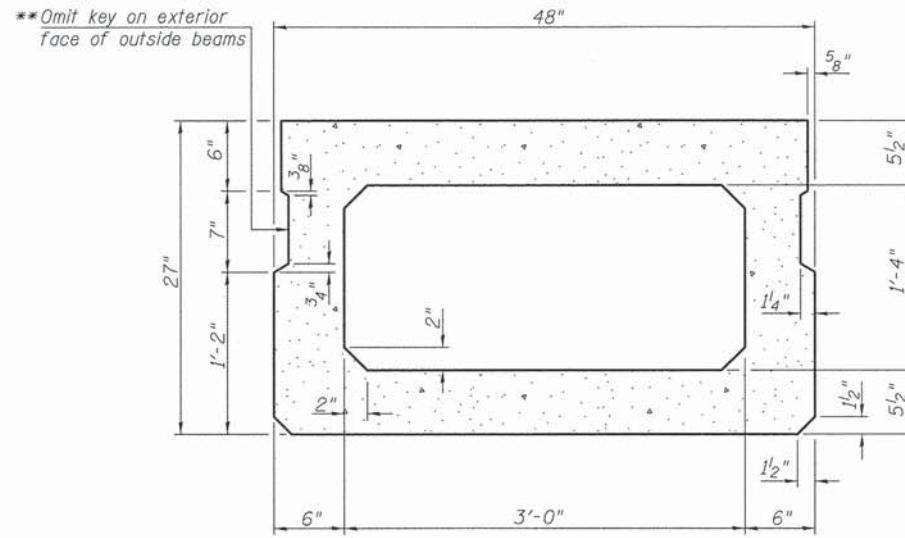
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Reinforcement bars shall conform to ASTM A 706, Grade 60.
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(12) 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.

SUPERSTRUCTURE - SPANS 1 & 3
KNOX COUNTY
SECTION 12-00103-01-BR
C.H. 11 OVER SPOON RIVER

SHEET NO. 2 12 SHEETS	ROUTE NO. CH 11	SECTION 12-00103-01-BR	COUNTY KNOX	TOTAL SHEETS 50	SHEET NO. 23
	S.N. 048-3402		CONTRACT NO. 89617		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BROS-0095(136)		

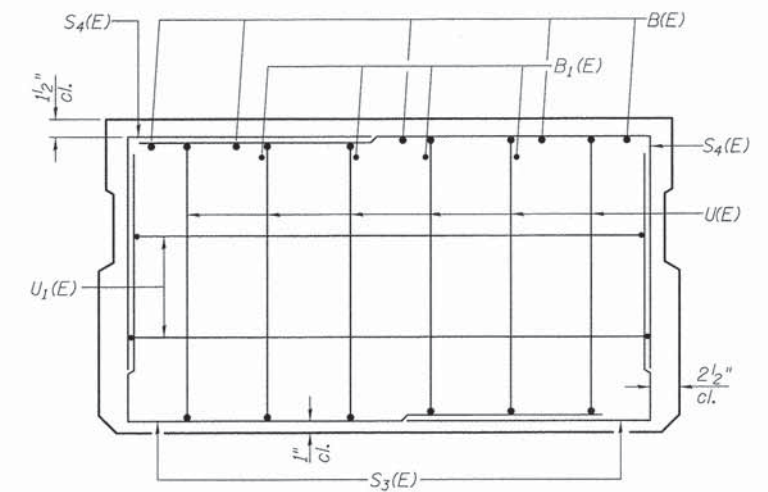


SECTION C-C

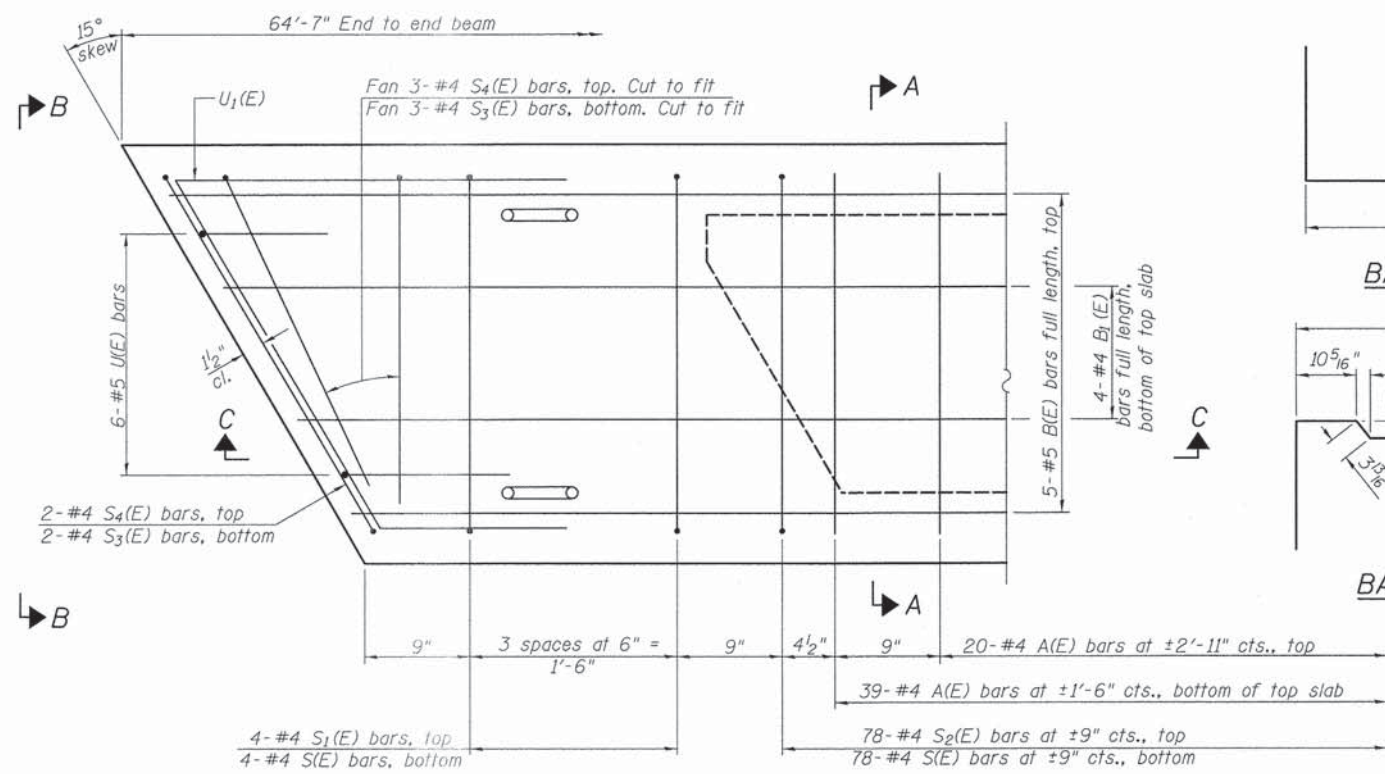


SECTION A-A
(Showing dimensions)

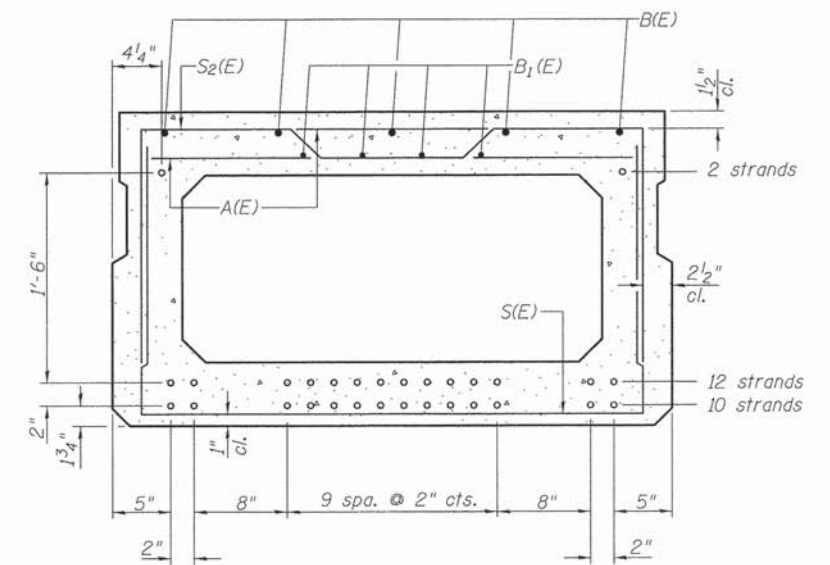
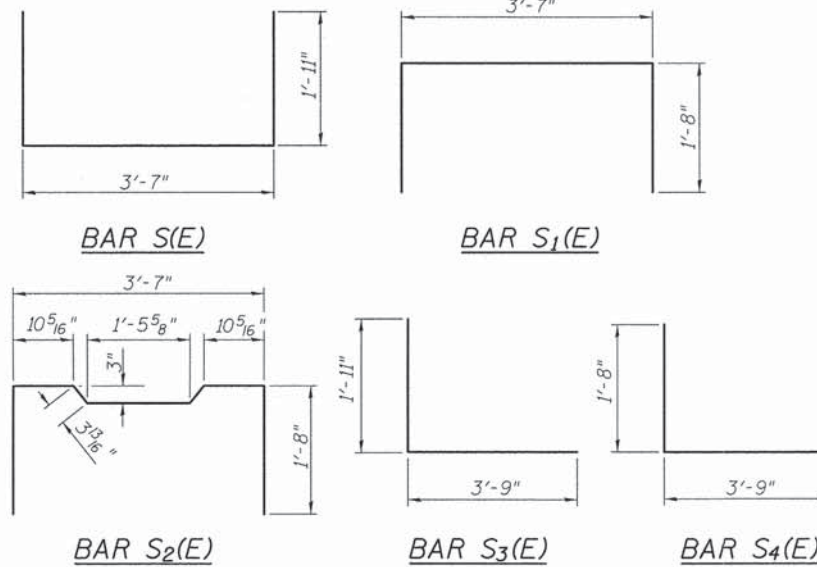
**Rail post anchor devices (Sheet 6 of 12) to be cast into exterior face of outside beams.



VIEW B-B



PLAN VIEW



SECTION A-A

24-1/2" Strands Each Strand Stressed to 30,900 Lbs.
10-Strands 1 3/4" up, 12-Strands 3 3/4" up,
2-Strands 1'-9 3/4" up
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)	59	#4	3'-7"	—
B(E)	5	#5	*64'-4"	—
B1(E)	4	#4	*64'-4"	—
S(E)	86	#4	7'-5"	U
S1(E)	8	#4	6'-11"	U
S2(E)	78	#4	7'-2"	U
S3(E)	10	#4	5'-8"	U
S4(E)	10	#4	5'-5"	U
U(E)	12	#5	4'-6"	U
U1(E)	4	#4	7'-1"	U

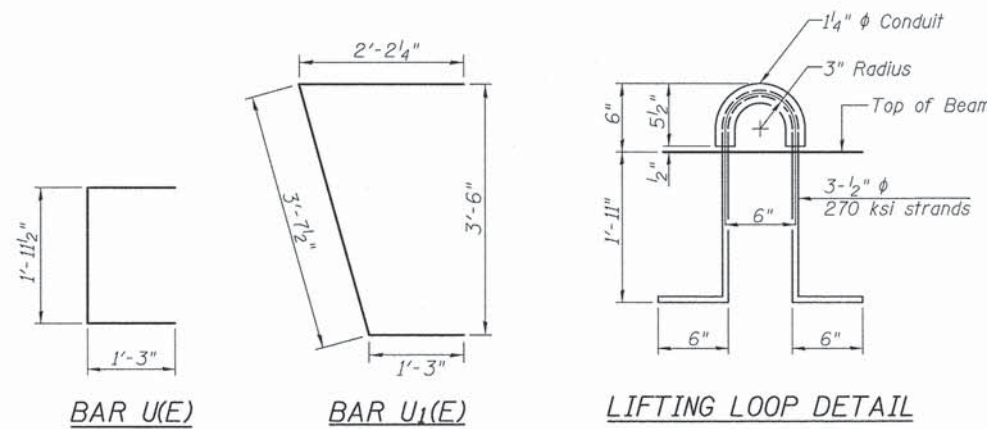
MIN. BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

* Total Length, Lap as necessary

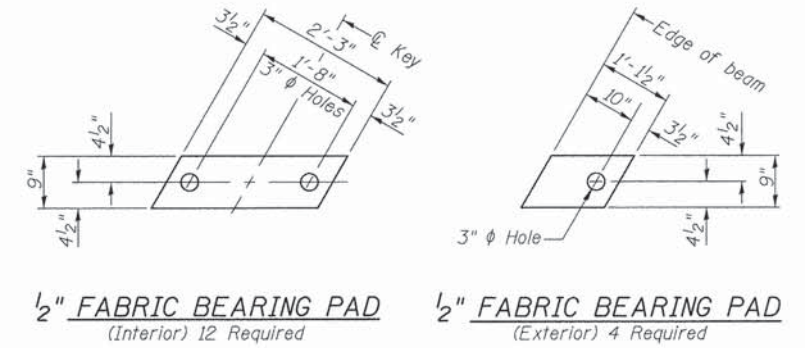
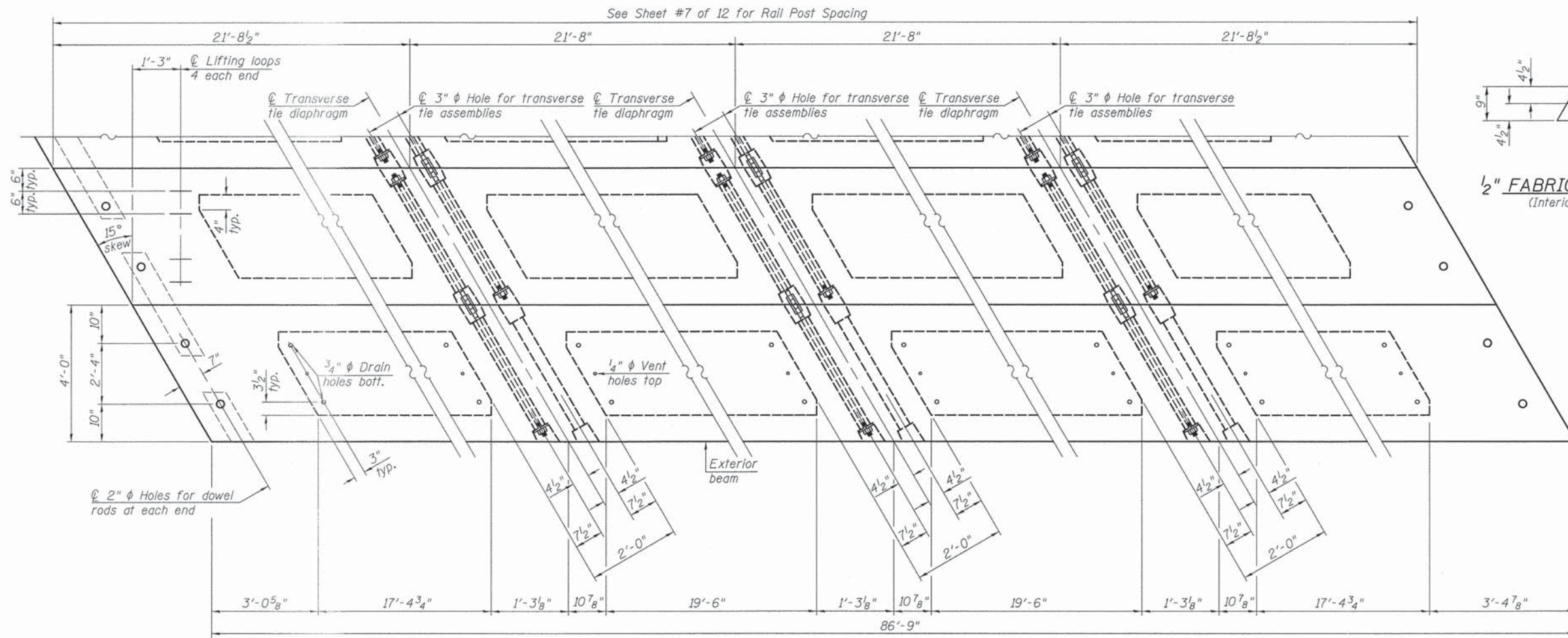
SUPERSTRUCTURE
DETAILS - SPANS 1 & 3
KNOX COUNTY
SECTION 12-00103-01-BR
C.H. 11 OVER SPOON RIVER

Note: See sheet 2 of 12 for additional details and Bill of Material.

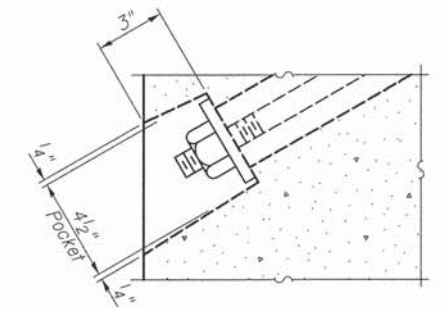


LIFTING LOOP DETAIL

SHEET NO. 3 12 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 11	12-00103-01-BR	KNOX	50	24
S.N. 048-3402			CONTRACT NO. 89617		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BROS-0095(136)		



FIXED



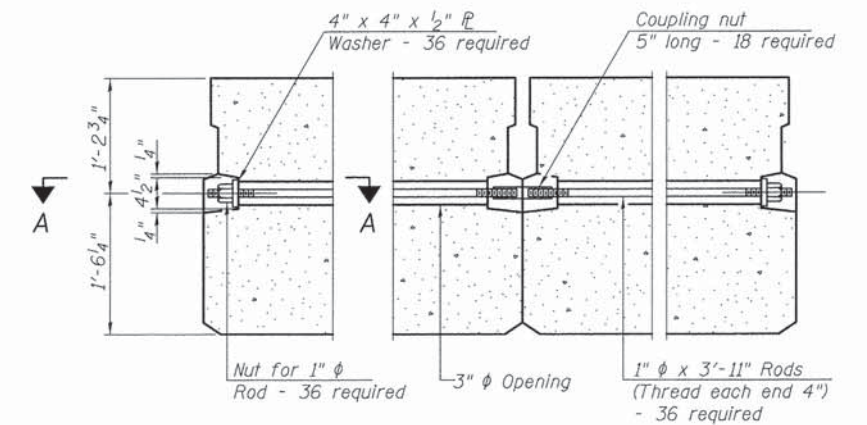
SECTION A-A

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

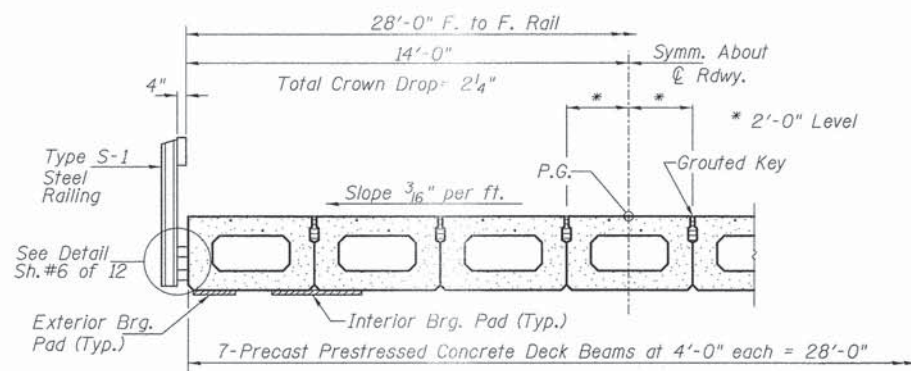
PLAN VIEW

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
① Precast Prestressed Concrete Deck Beams (33" Depth)	SQ FT	2,429
① See Special Provisions		



TYPICAL TRANSVERSE TIE ASSEMBLY



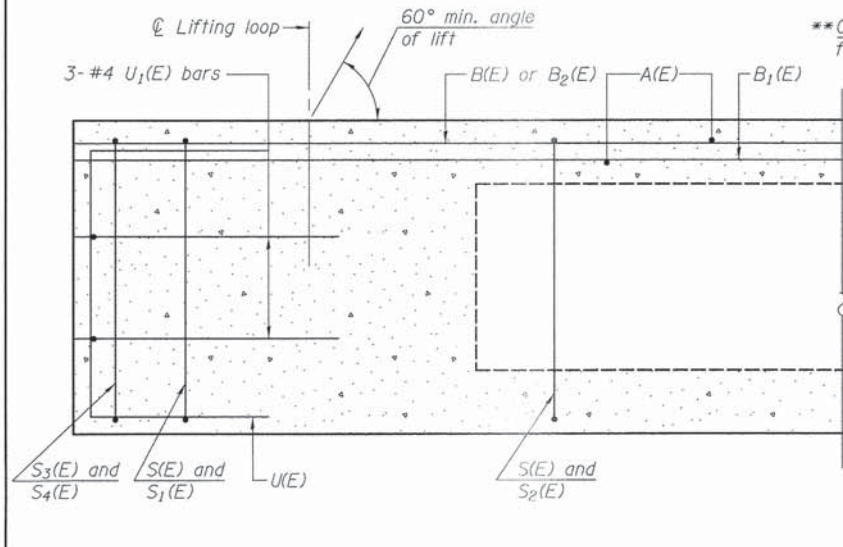
HALF CROSS SECTION

NOTES

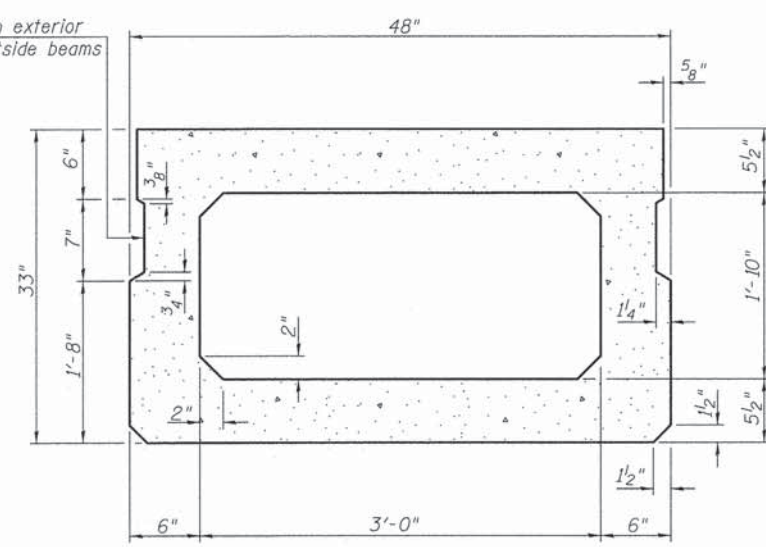
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
 Reinforcement bars shall conform to ASTM A 706, Grade 60.
 Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
 A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.
 Corrosion Inhibitor, per Article 1020.05(b)(12) 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.

SUPERSTRUCTURE - SPAN 2
 KNOX COUNTY
 SECTION 12-00103-01-BR
 C.H. 11 OVER SPOON RIVER

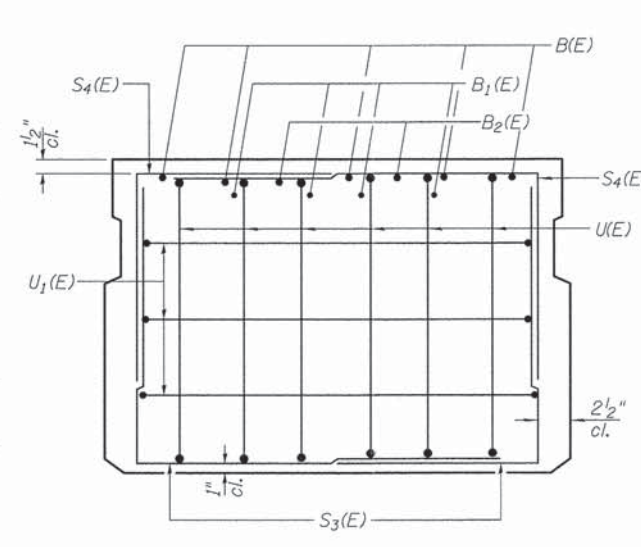
SHEET NO. 4 12 SHEETS	ROUTE NO. CH 11	SECTION 12-00103-01-BR	COUNTY KNOX	TOTAL SHEETS 50	SHEET NO. 25
	S.N. 048-3402		CONTRACT NO. 89617		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BROS-0095(136)		



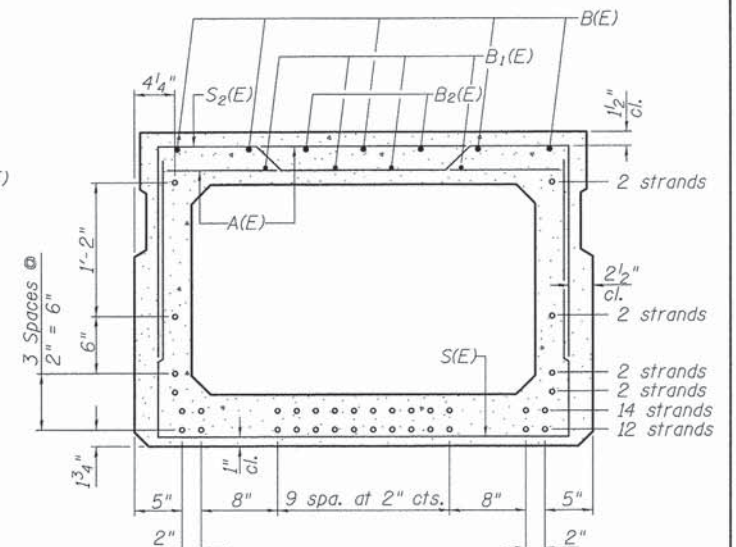
SECTION C-C



SECTION A-A
(Showing dimensions)



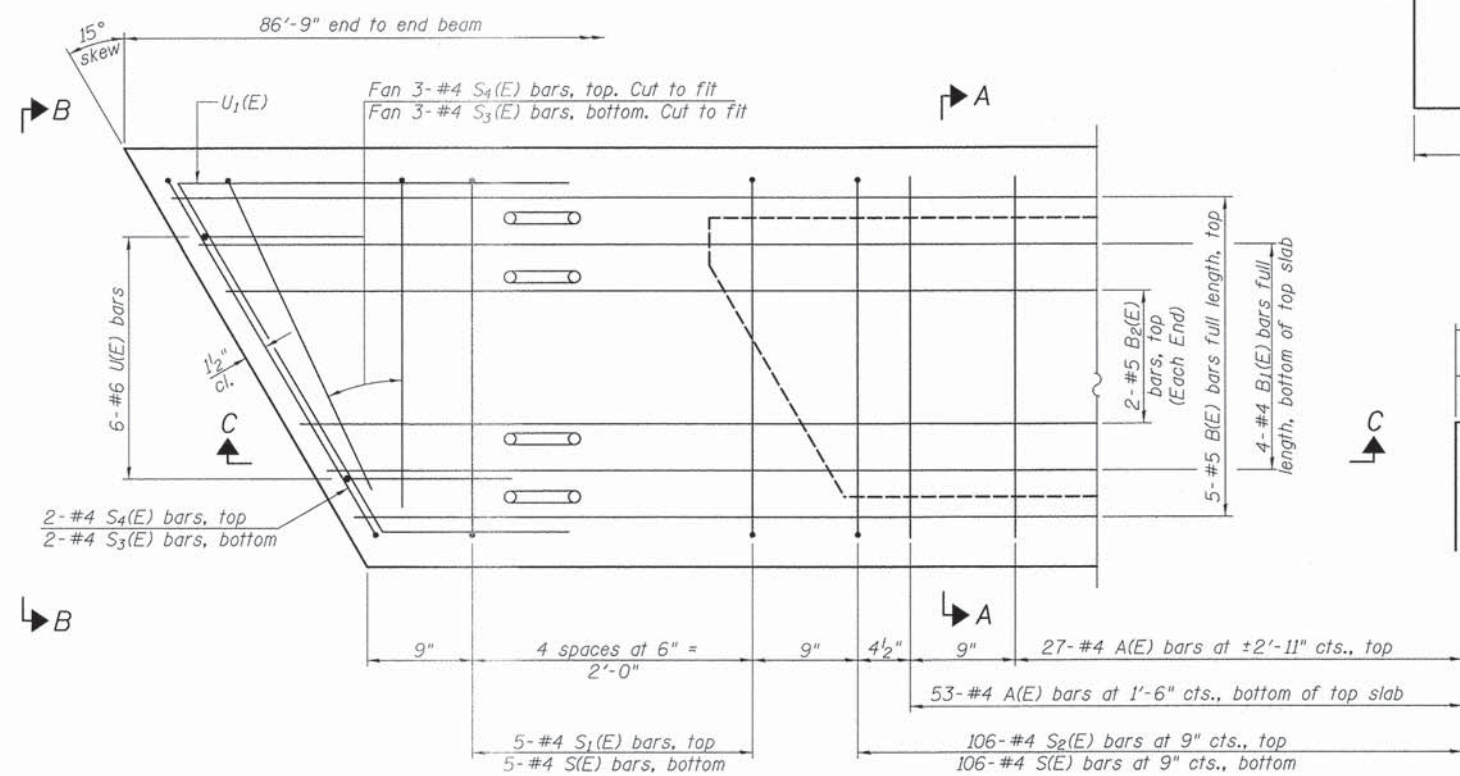
VIEW B-B



SECTION A-A

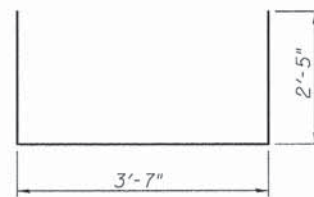
34-1/2" φ Strands Each Strand Stressed to 30,900 Lbs.
 12-Strands 1 3/4" up, 14-Strands 3 3/4" up, 2-Strands 5 3/4" up,
 2-Strands 7 3/4" up, 2-Strands 1'-1 3/4" up, 2-Strands 2'-3 3/4" up
 Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

**Rail post anchor devices (Sheet 6 of 12)
 to be cast into exterior face of outside beams.

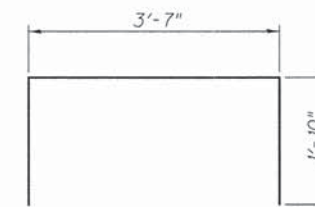


PLAN VIEW

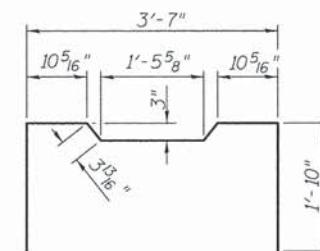
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.



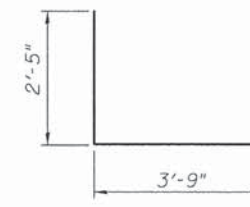
BAR S(E)



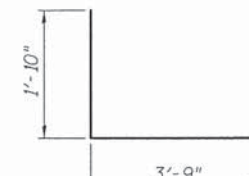
BAR S1(E)



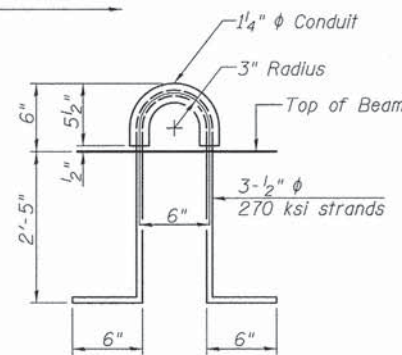
BAR S2(E)



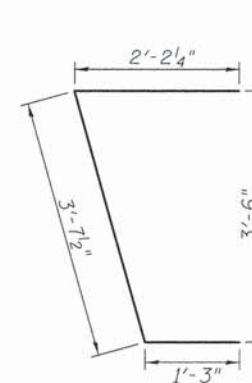
BAR S3(E)



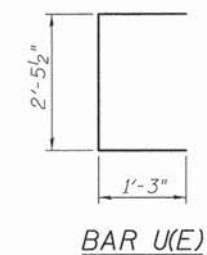
BAR S4(E)



LIFTING LOOP DETAIL



BAR U1(E)



BAR U(E)

BAR LIST-ONE BEAM ONLY
(For information only)

BAR NO.	SIZE	LENGTH	SHAPE
A(E)	80 #4	3'-7"	—
B(E)	5 #5	*86'-6"	—
B1(E)	4 #4	*86'-6"	—
B2(E)	4 #5	10'-0"	—
S(E)	116 #4	8'-5"	┌┐
S1(E)	10 #4	7'-3"	┌┐
S2(E)	106 #4	7'-6"	┌┐
S3(E)	10 #4	6'-2"	┌┐
S4(E)	10 #4	5'-7"	┌┐
U(E)	12 #6	5'-0"	┌┐
U1(E)	6 #4	7'-1"	┌┐

Note: See sheet 4 of 12 for additional details and Bill of Material.

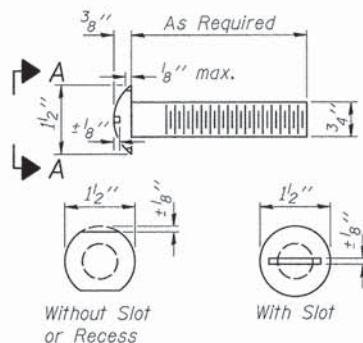
* Total Length, Lap as necessary

MIN. BAR LAP
 #4 bar = 2'-0"
 #5 bar = 2'-6"

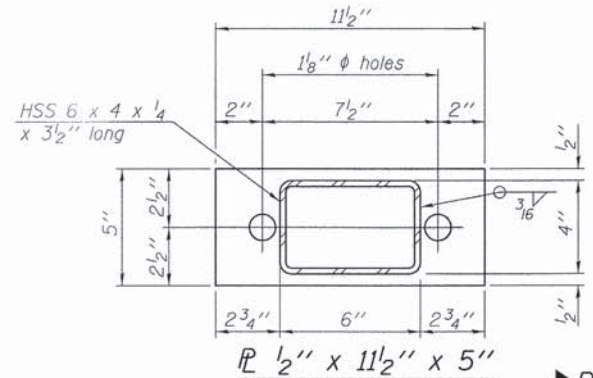
SUPERSTRUCTURE DETAILS - SPAN 2
 KNOX COUNTY
 SECTION 12-00103-01-BR
 C.H. 11 OVER SPOON RIVER

SHEET NO. 5 12 SHEETS	ROUTE NO. CH 11	SECTION 12-00103-01-BR	COUNTY KNOX	TOTAL SHEETS 50	SHEET NO. 26
	S.N. 048-3402		CONTRACT NO. 89617		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BROS-0095(136)		

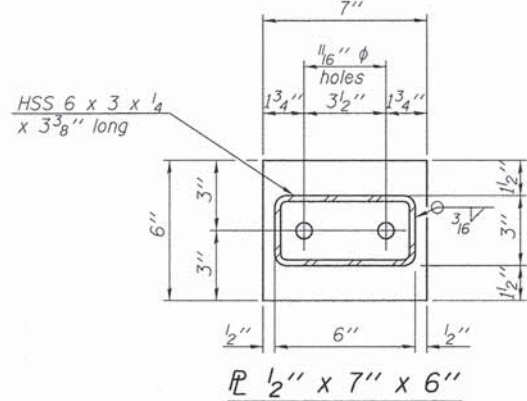
FOR RAIL POST SPACING SEE SH.#7 OF 12



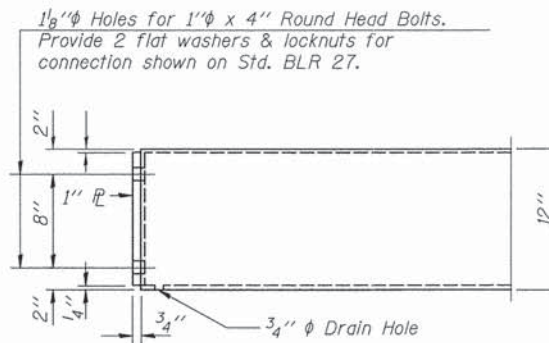
VIEW A-A
ROUND HEAD BOLT



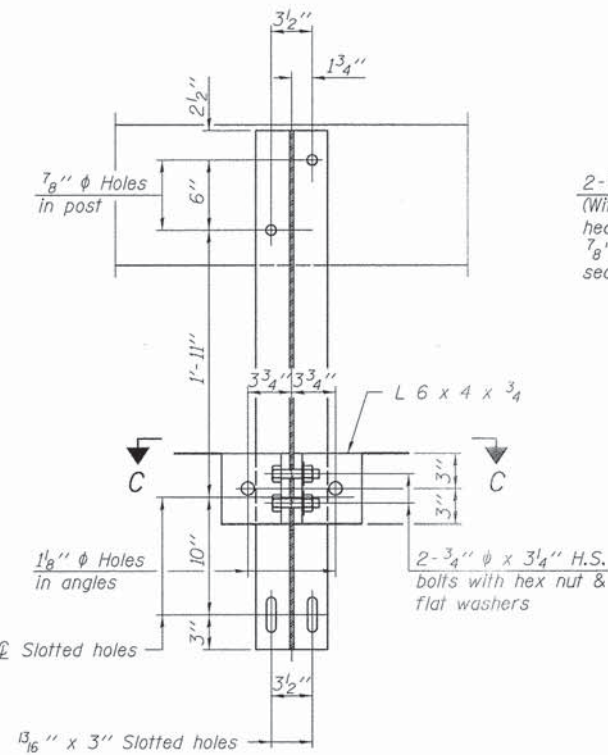
PL 1/2" x 11 1/2" x 5"



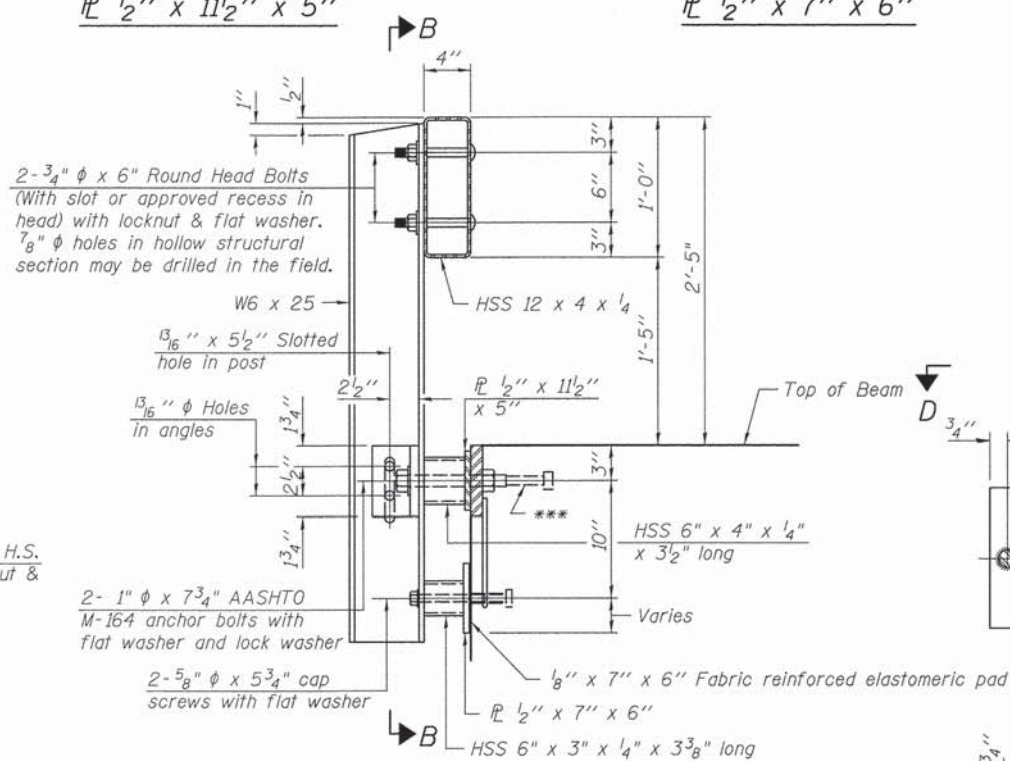
PL 1/2" x 7" x 6"



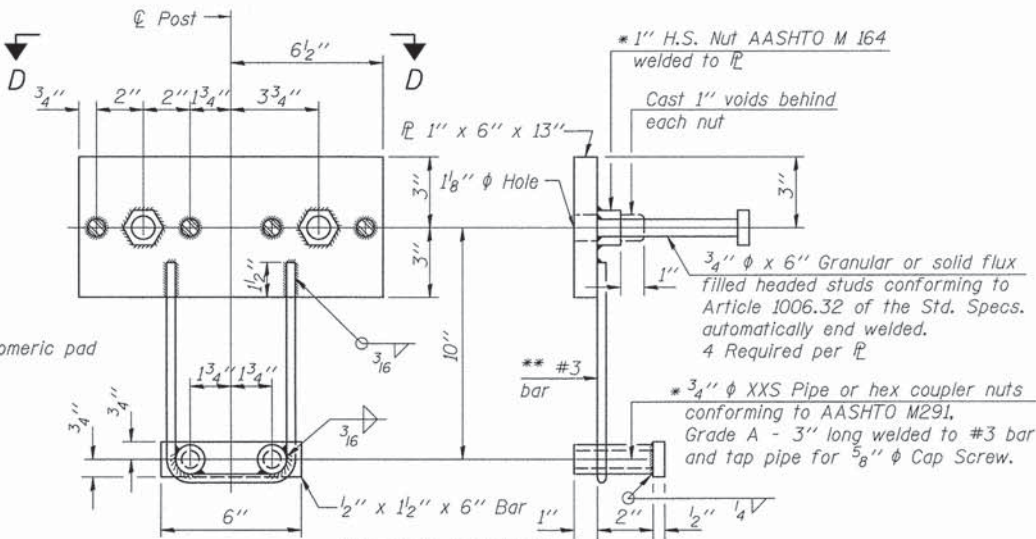
END OF RAIL DETAILS



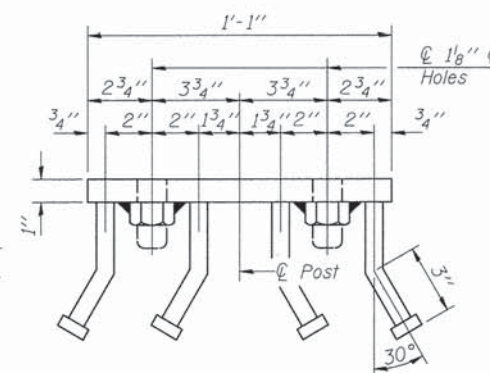
SECTION B-B



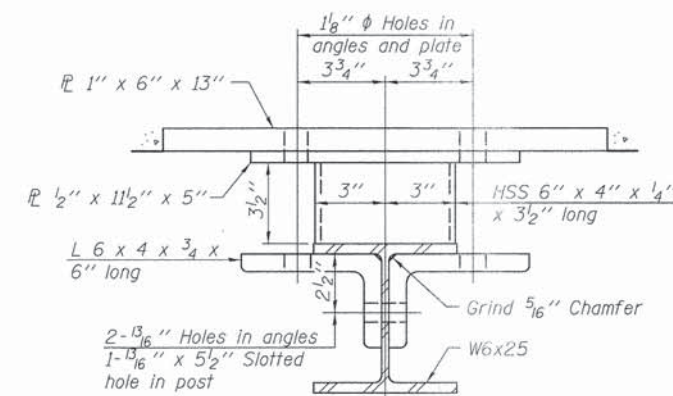
SECTION AT RAILING POST



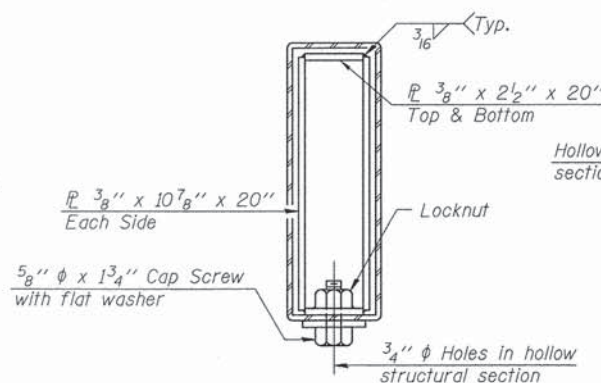
ANCHOR DEVICE



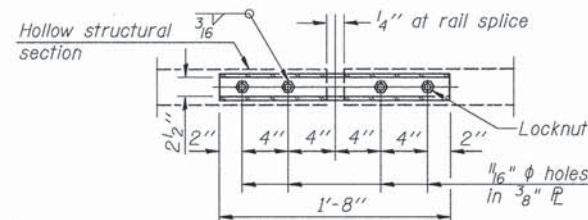
VIEW D-D



SECTION C-C



SECTIONS AT RAIL SPLICE



PLAN-BOTT. SPLICE PLATE TYPICAL

NOTES

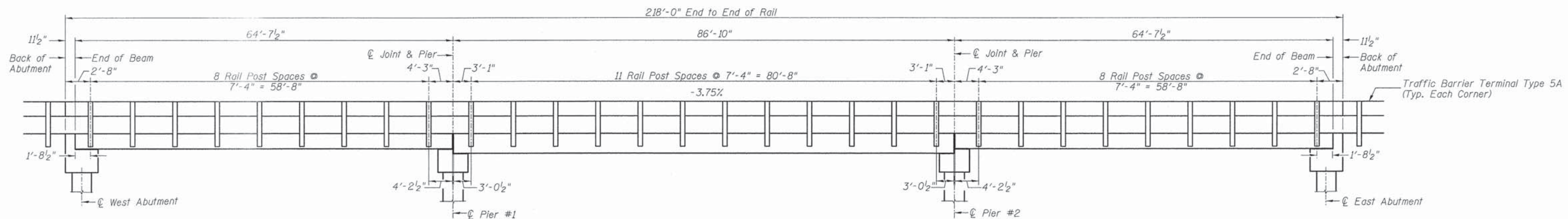
All field drilled holes shall be coated with an approved zinc rich paint before erection.
For multi-span bridges, sufficient 1/4 inch x 6 inch x 1-2 inch galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
*** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

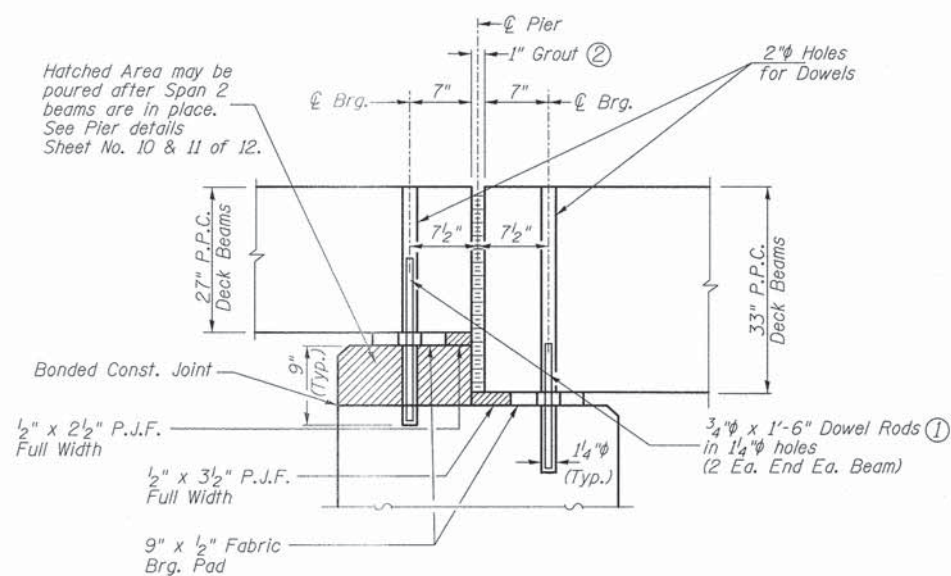
ITEM	UNIT	QUANTITY
Steel Railing, Type S-1	FOOT	436

STEEL RAILING, TYPE S-1
KNOX COUNTY
SECTION 12-00103-01-BR
C.H. 11 OVER SPOON RIVER

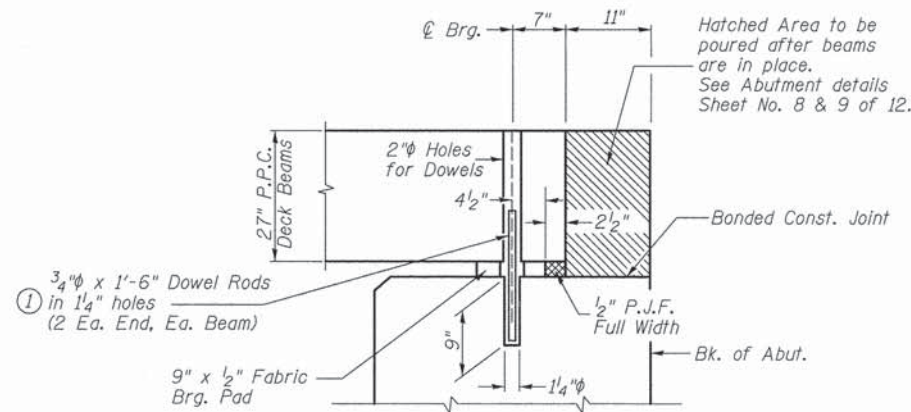
SHEET NO.	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12 SHEETS	CH 11	12-00103-01-BR	KNOX	50	27
		S.N. 048-3402		CONTRACT NO. 89617	
	FED. ROAD DIST. NO. 7	ILLINOIS		FED. AID PROJECT BROS-0095(136)	



RAIL POST SPACING



SECTION THRU PIERS
(At Right Angles)

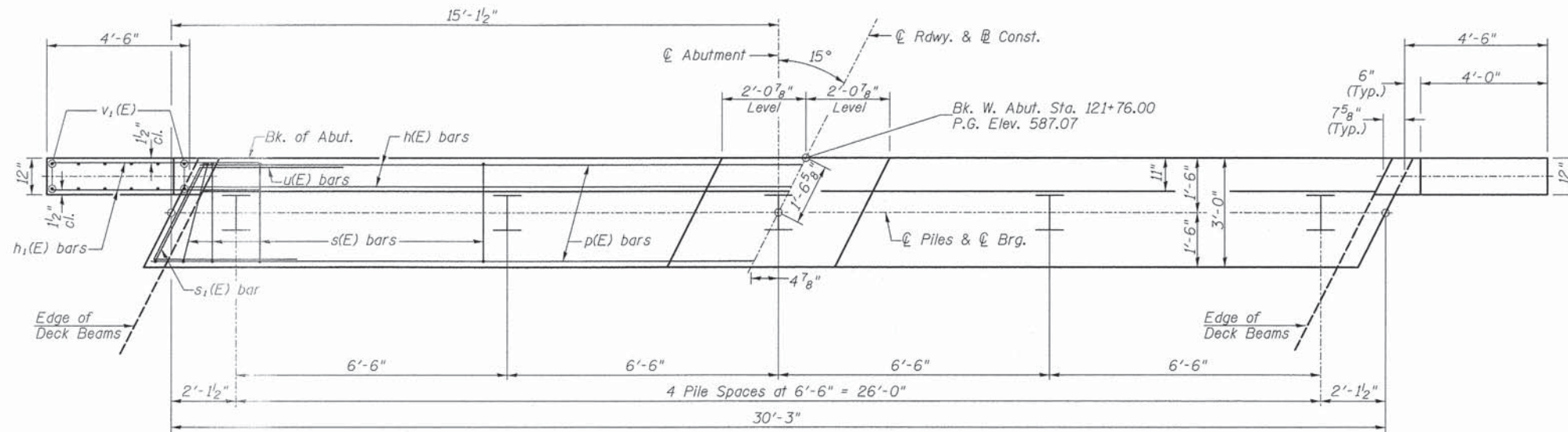


SECTION THRU ABUTMENTS
(At Right Angles)

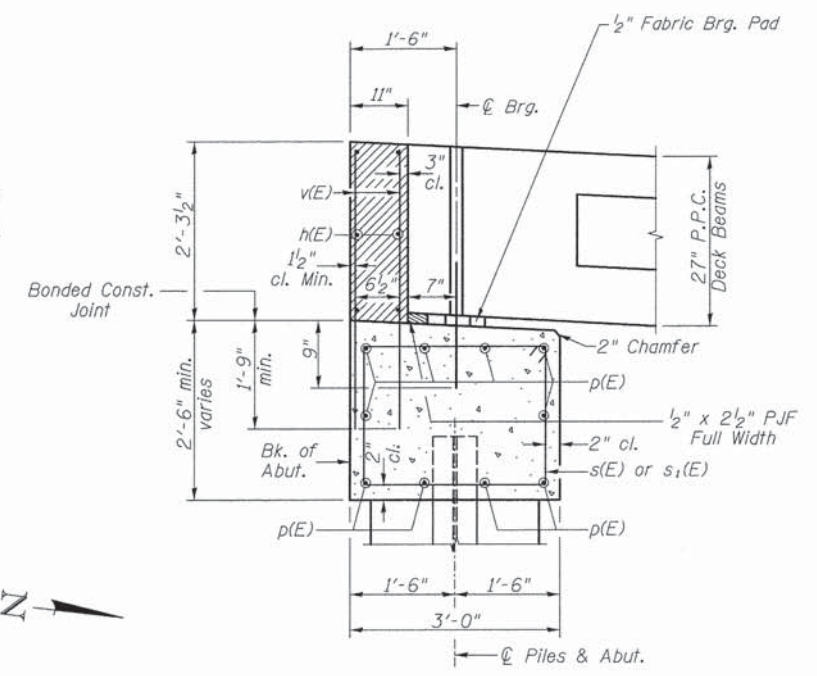
- ① Dowel Rods to be grouted after beams are in place and allowed to cure (Min. 24 hr.) prior to grouting the shear keys.
- ② 1" Joint shall be packed with a very dry mix of 2:1 sand and P.C. mortar. 1" Dimension may vary plus or minus to accommodate tolerance in beam lengths.

**RAIL POST SPACING AND
SUPERSTRUCTURE DETAILS
KNOX COUNTY
SECTION 12-00103-01-BR
C.H. 11 OVER SPOON RIVER**

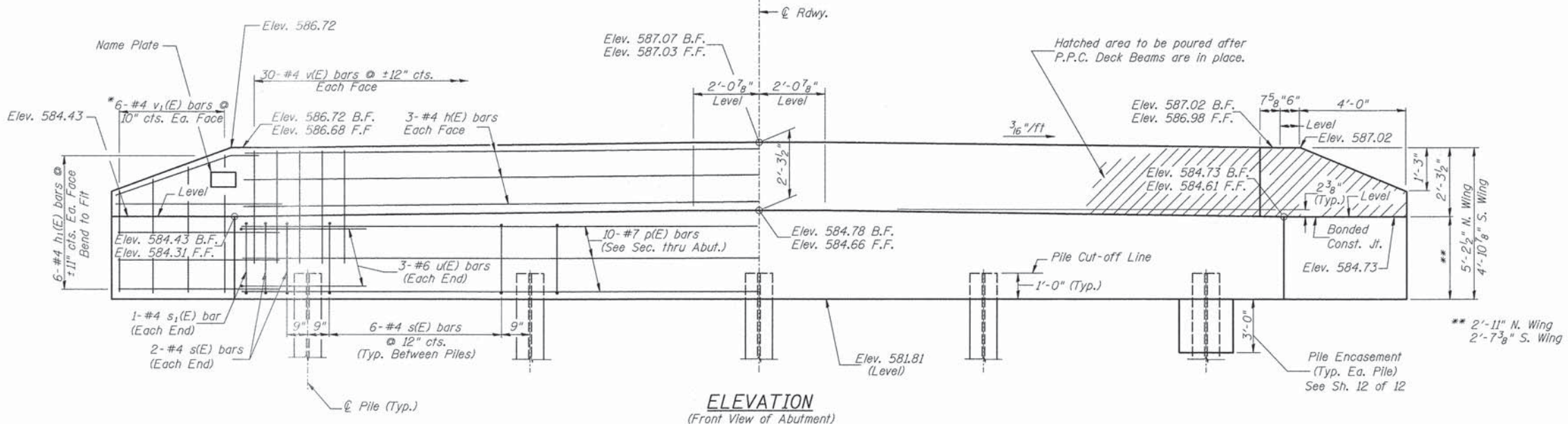
SHEET NO. 7 12 SHEETS	ROUTE NO. CH 11	SECTION 12-00103-01-BR	COUNTY KNOX	TOTAL SHEETS 50	SHEET NO. 28
	S.N. 048-3402		CONTRACT NO. 89617		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BR05-0095(136)		



PLAN



SECTION THRU ABUT.
(At Right Angles)



ELEVATION
(Front View of Abutment)

WEST ABUTMENT
BILL OF MATERIAL

BAR NO.	NO.	SIZE	LENGTH	SHAPE
h(E)	6	#4	30'-0"	—
h ₁ (E)	24	#4	6'-6"	—
p(E)	10	#7	30'-0"	—
s(E)	28	#4	10'-5"	□
s ₁ (E)	2	#4	10'-7"	□
u(E)	6	#6	11'-8"	└
v(E)	60	#4	4'-0"	—
v ₁ (E)	12	#4	7'-9"	—
Concrete Structures			CU YD	12.8
Reinforcement Bars, Epoxy Coated			POUND	1,370
Structure Excavation			CU YD	40
Name Plates			EACH	1
Furnishing Steel Piles HP10x42			FOOT	116
Driving Piles			FOOT	116
Test Pile Steel HP10x42			EACH	1
Concrete Encasement			CU YD	1.7

① See Special Provisions

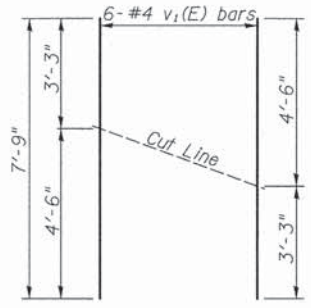
DESIGN STRESSES
 $f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i.

NOTES

- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- Reinforcement bars shall conform to ASTM A706 Grade 60.

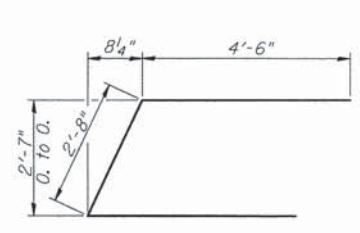
PILE DATA

Type & Size: Steel HP10x42
 Nominal Required Bearing: 335 kips
 Factored Resistance Available: 184 kips
 Est. Length: 29'
 No. Req'd.: 5 (Includes 1 Test Pile)

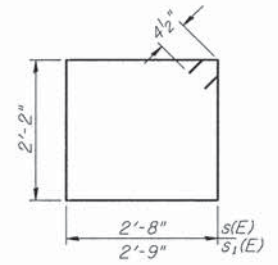


BAR CUTTING DIAGRAM

*Order v₁(E) bars full length. Cut as shown and use remainder of bars in opposite face.



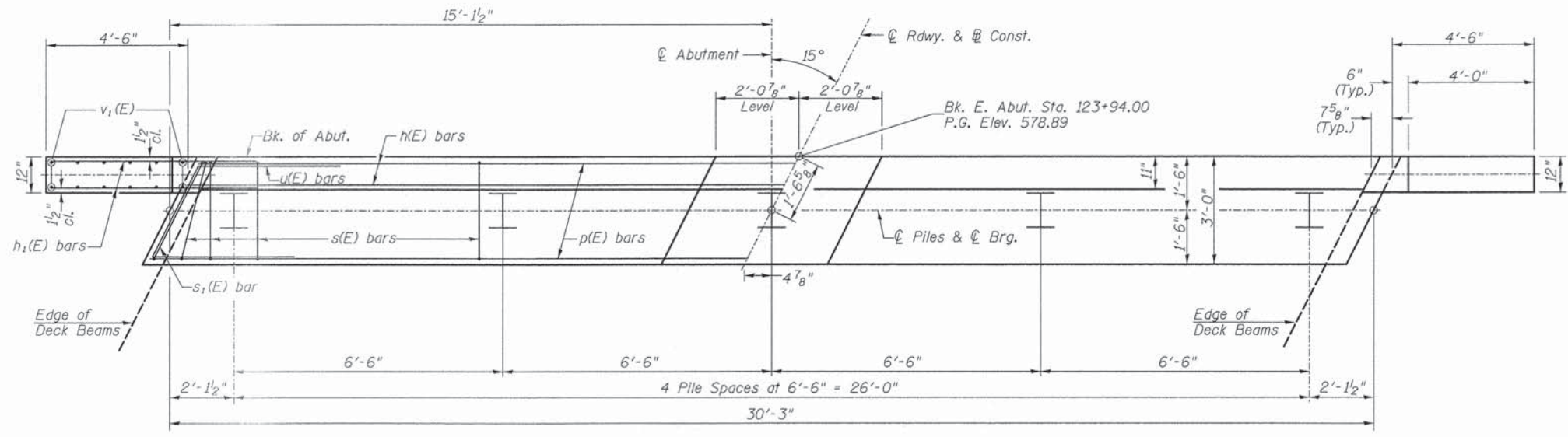
BAR u(E)



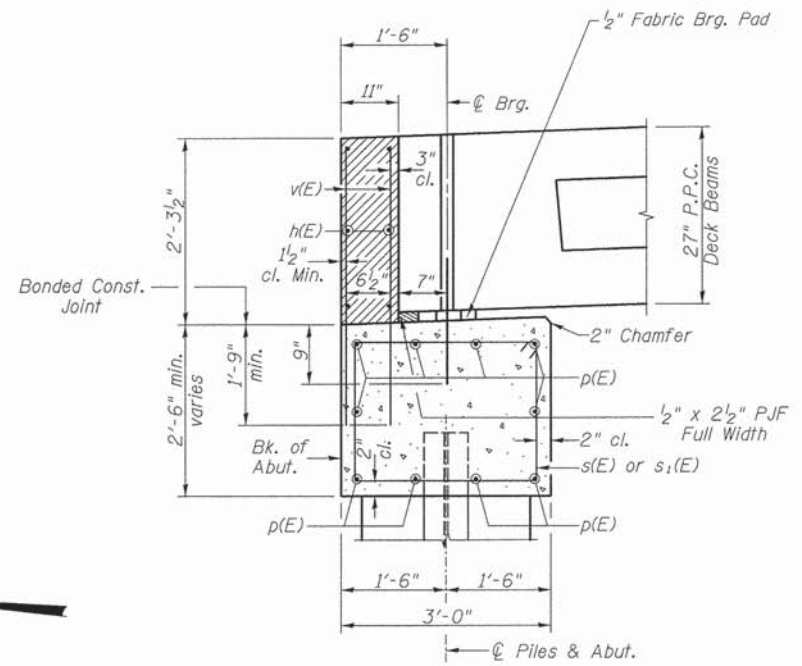
BAR s(E) & s₁(E)

WEST ABUTMENT
KNOX COUNTY
SECTION 12-00103-01-BR
C.H. 11 OVER SPOON RIVER

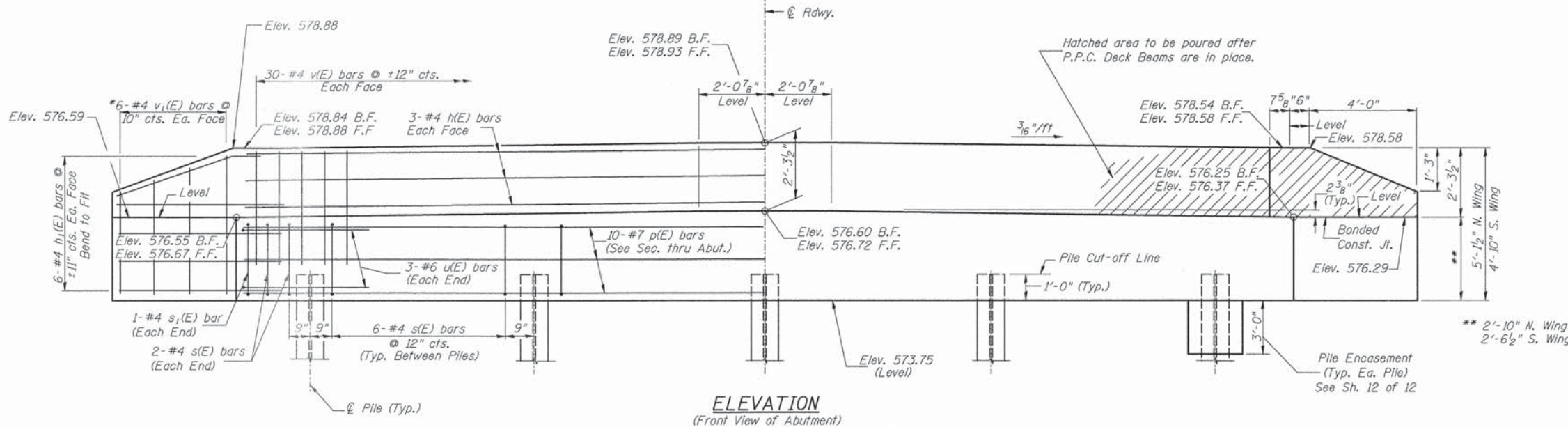
SHEET NO. 8 12 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 11	12-00103-01-BR	KNOX	50	29
	S.N. 048-3402		CONTRACT NO. 89617		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BROS-0095(136)			



PLAN



SECTION THRU ABUT.
(At Right Angles)



ELEVATION
(Front View of Abutment)

EAST ABUTMENT
BILL OF MATERIAL

BAR NO.	NO.	SIZE	LENGTH	SHAPE
h(E)	6	#4	30'-0"	—
h _i (E)	24	#4	6'-6"	—
p(E)	10	#7	30'-0"	—
s(E)	28	#4	10'-5"	□
s ₁ (E)	2	#4	10'-7"	□
u(E)	6	#6	11'-8"	┌
v(E)	60	#4	4'-0"	—
v ₁ (E)	12	#4	7'-9"	—
Concrete Structures			CU YD	12.8
Reinforcement Bars, Epoxy Coated			POUND	1,370
Structure Excavation			CU YD	40
Furnishing Steel Piles HP10x42			FOOT	104
Driving Piles			FOOT	104
Test Pile Steel HP10x42			EACH	1
Concrete Encasement			CU YD	1.7

① See Special Provisions

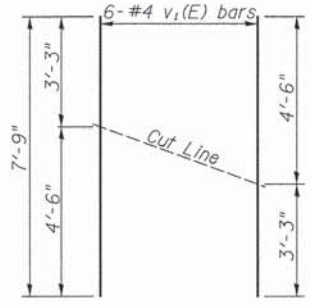
DESIGN STRESSES
 $f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i.

NOTES

- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- Reinforcement bars shall conform to ASTM A706 Grade 60.

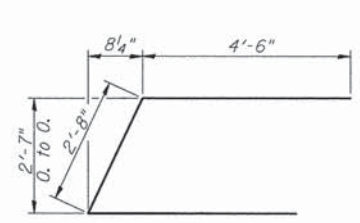
PILE DATA

Type & Size: Steel HP10x42
 Nominal Required Bearing: 335 kips
 Factored Resistance Available: 184 kips
 Est. Length: 26'
 No. Req'd.: 5 (Includes 1 Test Pile)

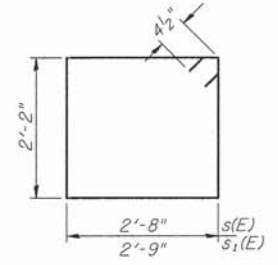


BAR CUTTING DIAGRAM

*Order v₁(E) bars full length. Cut as shown and use remainder of bars in opposite face.



BAR u(E)



BAR s(E) & s₁(E)

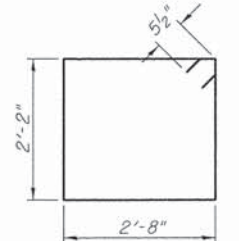
EAST ABUTMENT
KNOX COUNTY
SECTION 12-00103-01-BR
C.H. 11 OVER SPOON RIVER

SHEET NO. 9 12 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 11	12-00103-01-BR	KNOX	50	30
S.N. 048-3402			CONTRACT NO. 89617		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BROS-0095(136)		

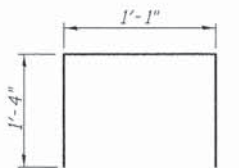
TABLE OF ELEVATIONS

LOCATION	DESCRIPTION	ELEVATION
1	Top of Cap	578.45
2	Top of Cap	578.50
3	Top of Cap	578.57
4	Top of Cap	578.50
5	Top of Cap	578.56
6	Top of Cap	578.62
7	Top of Cap	578.16
8	Top of Cap	578.20
9	Top of Cap	578.25
10	Top of Step	578.95
11	Top of Step	579.00
12	Top of Step	579.00
13	Top of Step	579.06
14	Top of Step	578.66
15	Top of Step	578.70

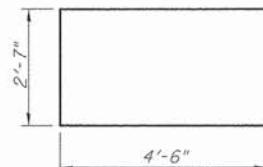
NOTES:
All edges shall have standard 3/4" chamfer.



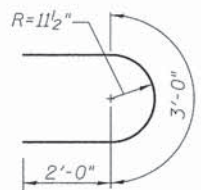
BAR s₂(E)



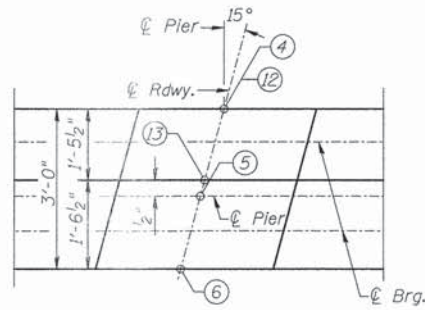
BAR u₁(E)



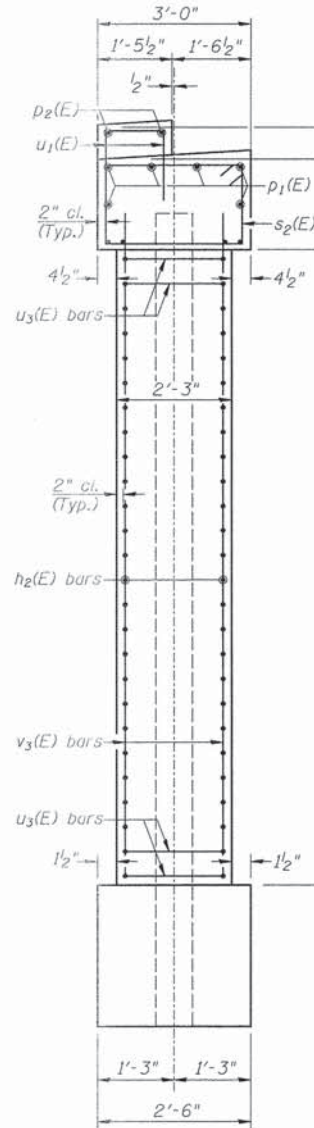
BAR u₂(E)



BAR u₃(E)

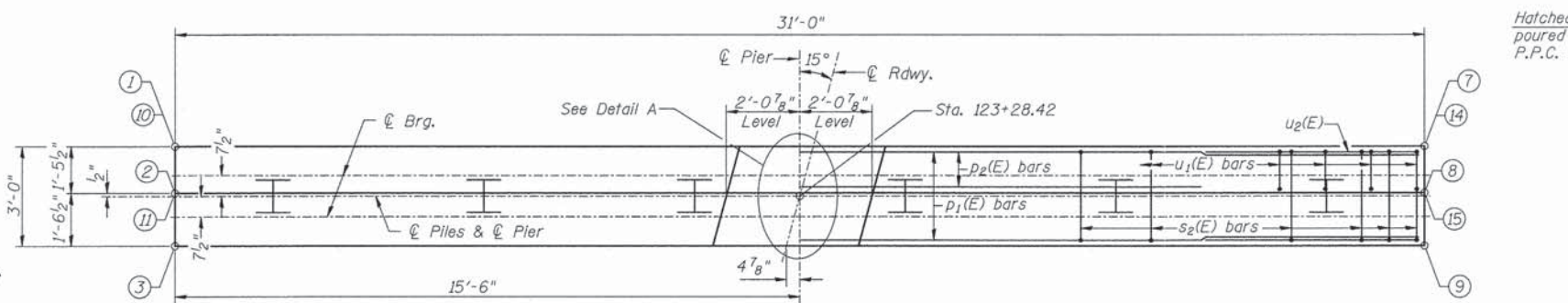


DETAIL A

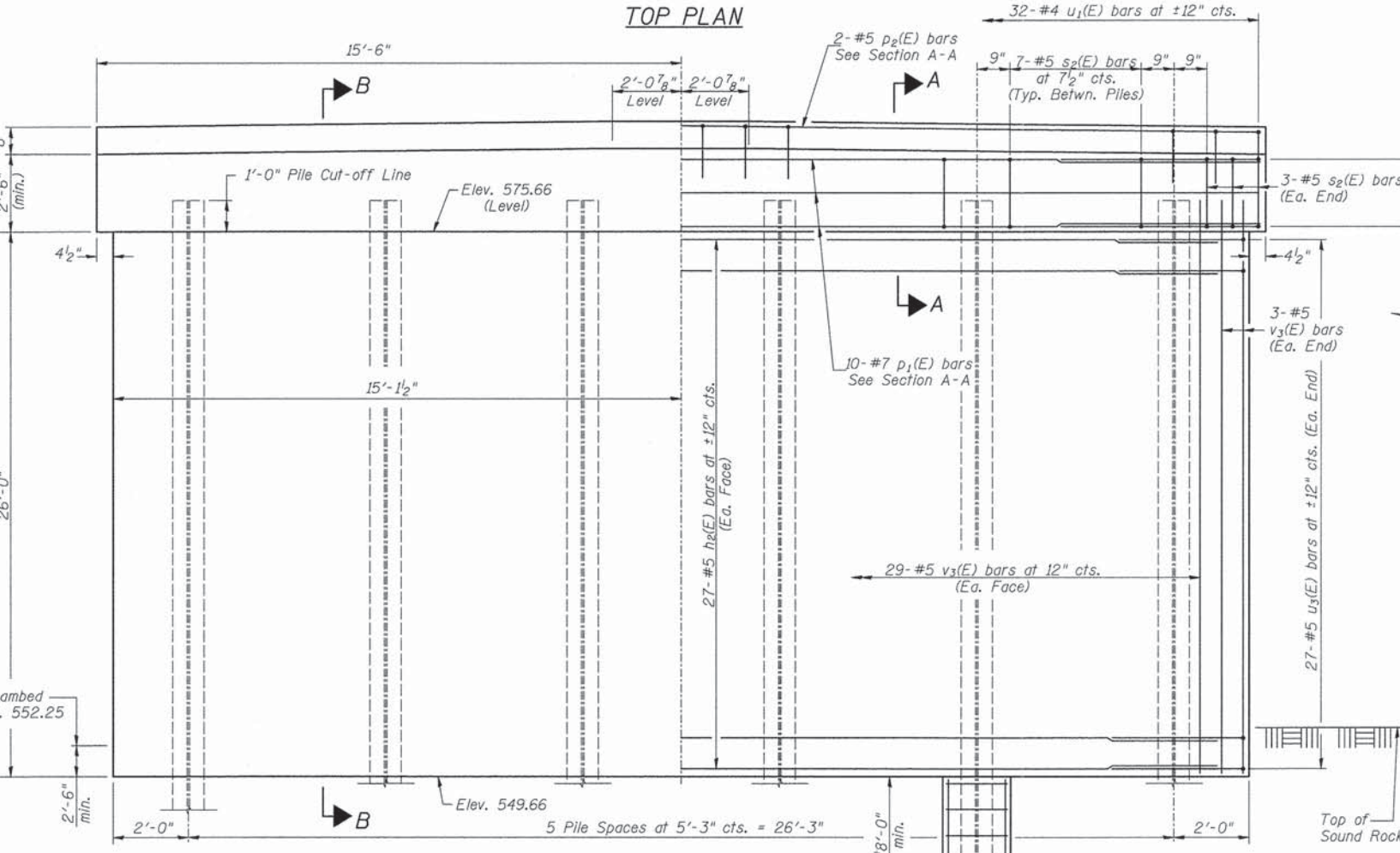


SECTION B-B

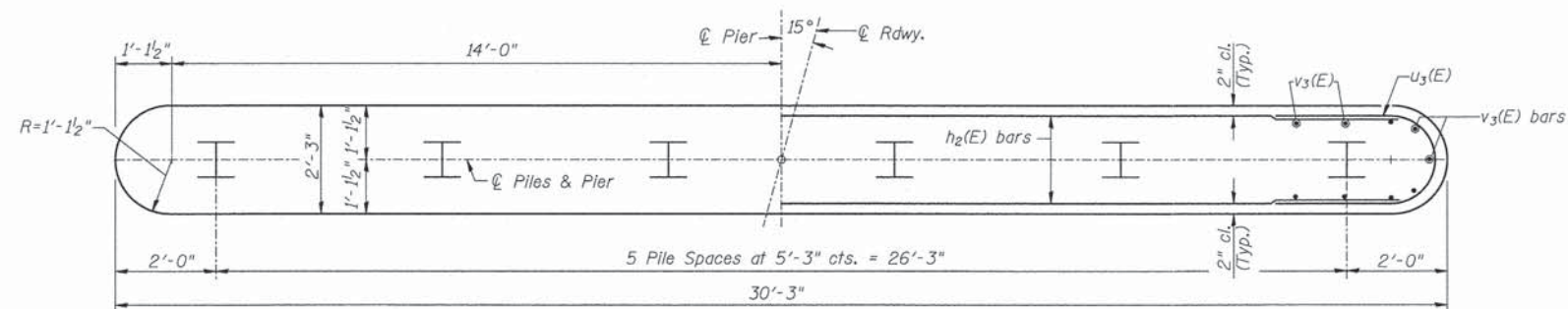
PILE DATA
Type & Size: Steel HP14x73
Nominal Required Bearing: Set in Rock (578 kips)
Factored Resistance Available: Set in Rock (318 kips)
Est. Length: 35'
No. Req'd.: 6



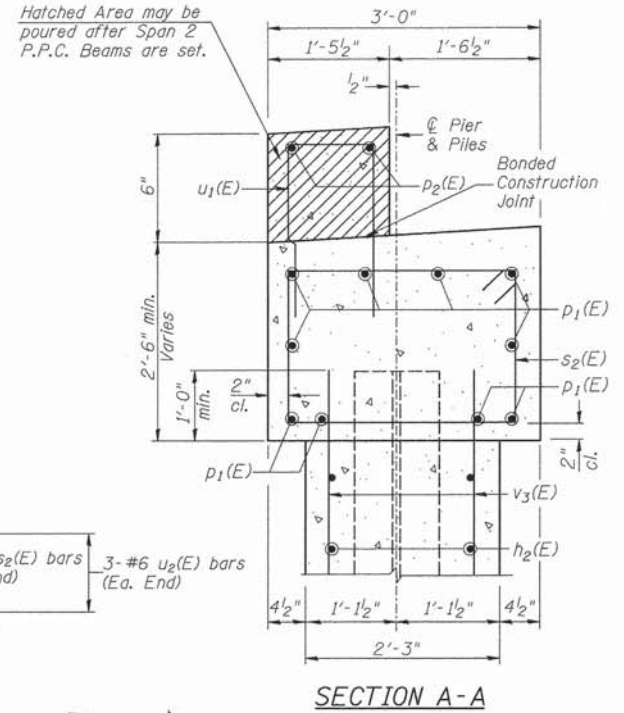
TOP PLAN



ELEVATION (Looking East)



FOOTING PLAN



SECTION A-A

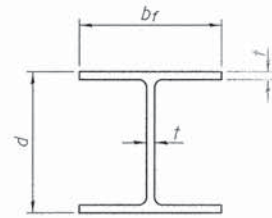
PIER #2 BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h ₂ (E)	54	#5	27'-9"	—
p ₁ (E)	10	#7	30'-9"	—
p ₂ (E)	2	#5	30'-9"	—
s ₂ (E)	41	#5	10'-7"	□
u ₁ (E)	32	#4	3'-9"	□
u ₂ (E)	6	#6	11'-7"	□
u ₃ (E)	54	#5	7'-0"	U
v ₃ (E)	64	#5	26'-10"	—
Concrete Structures		CU YD	74.5	
① Reinforcement Bars, Epoxy Coated		POUND	5,080	
Cofferdam Excavation		CU YD	10	
Furnishing Steel Piles HP14x73		FOOT	2.10	
① Setting Piles in Rock		EACH	6	
Rock Excavation		CU YD	10	
① Cofferdam (Type 1) (Location-2)		EACH	1	

① See Special Provisions

PIER #2 KNOX COUNTY SECTION 12-00103-01-BR C.H. 11 OVER SPOON RIVER

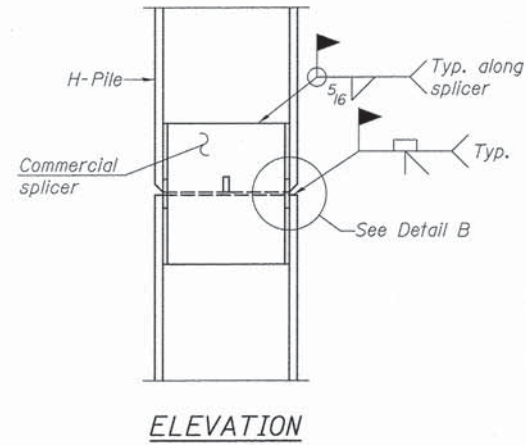
SHEET NO. 11 12 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 11	12-00103-01-BR	KNOX	50	32
	S.N. 048-3402		CONTRACT NO. 89617		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BROS-0095(136)			



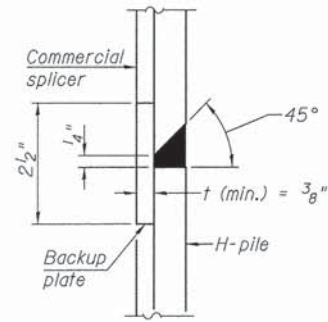
STEEL PILE TABLE

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

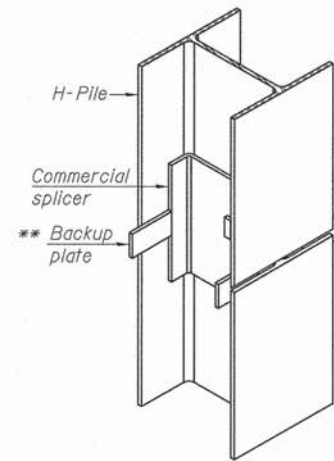
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

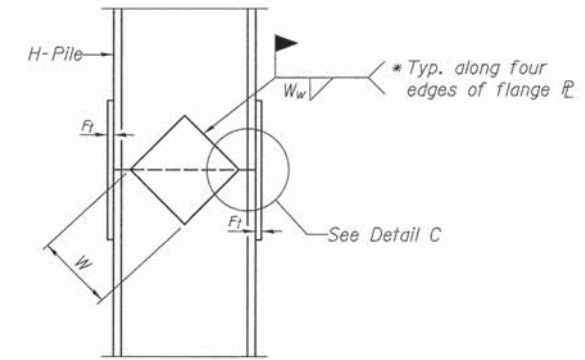


DETAIL "B"

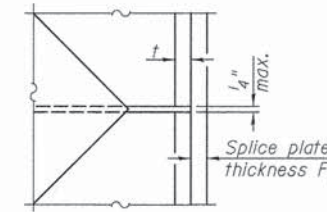


ISOMETRIC VIEW

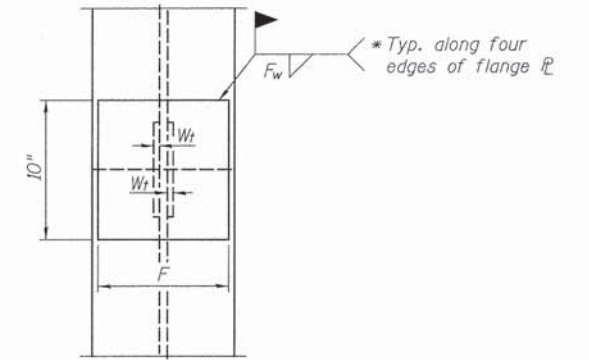
WELDED COMMERCIAL SPLICE



ELEVATION

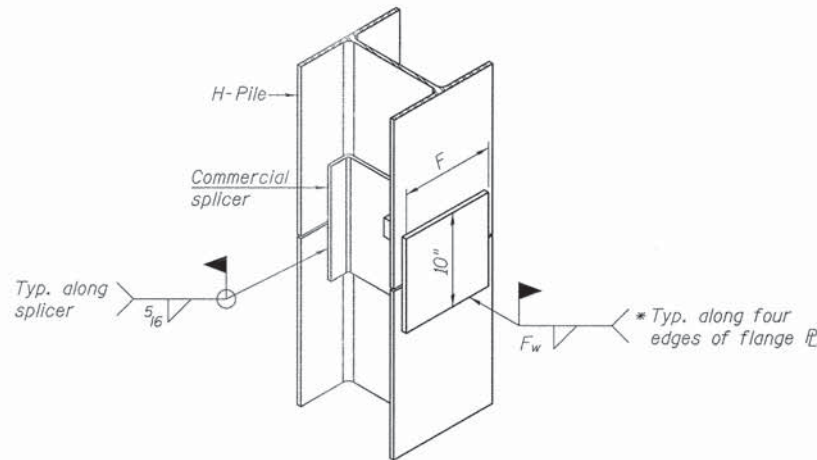


DETAIL C



END VIEW

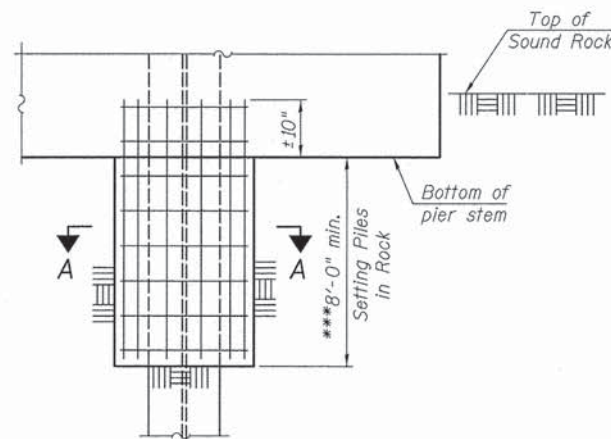
Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"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



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

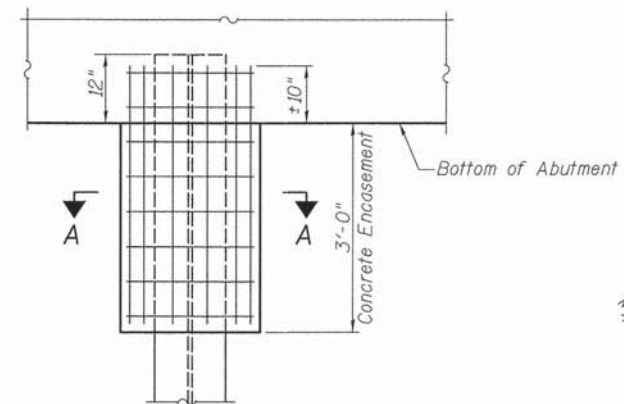
* Interrupt welds 1/4" from end of web and/or each flange.
** Remove portions of backup plates that extend outside the flanges.



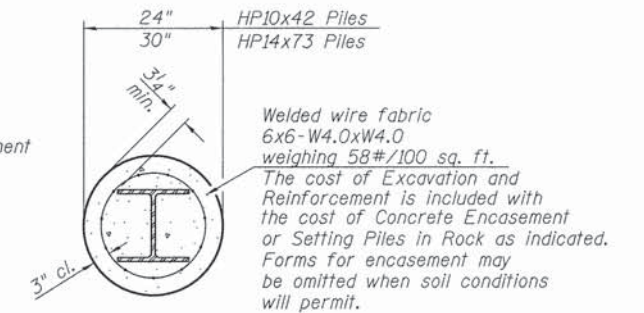
PIER ELEVATION

*** Rock Sockets shall be extended to a depth of the the greater of 8'-0" into sound rock or 8'-0" below the bottom of pier stem.

PILE ENCASEMENT



ABUTMENT ELEVATION

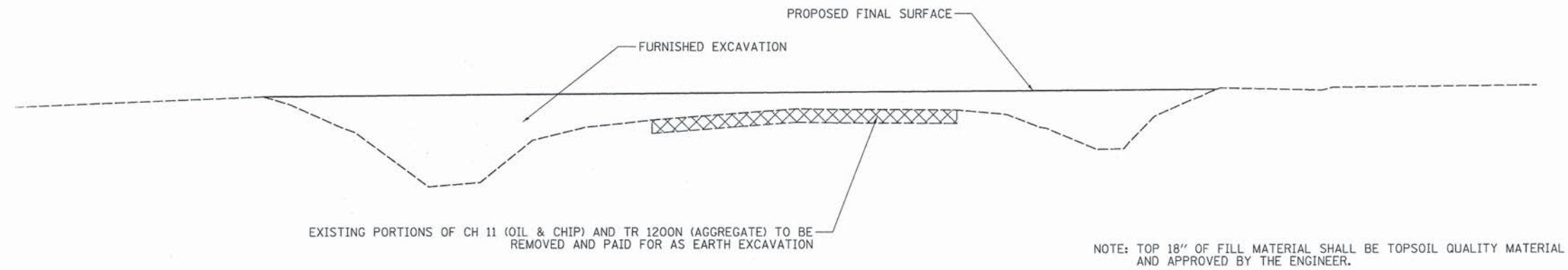
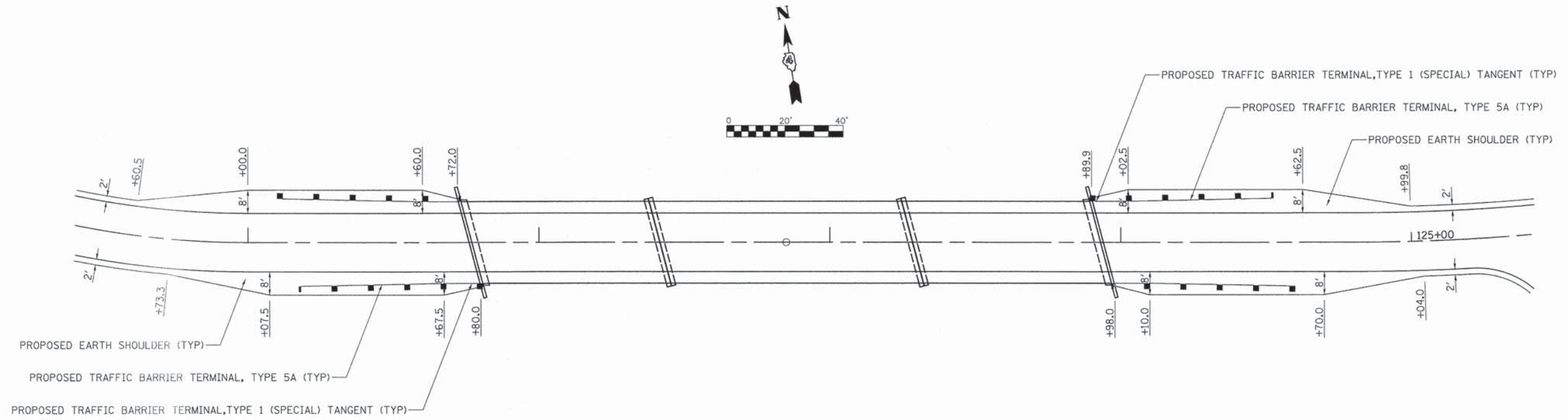


SECTION A-A

**PILE DETAILS
KNOX COUNTY**

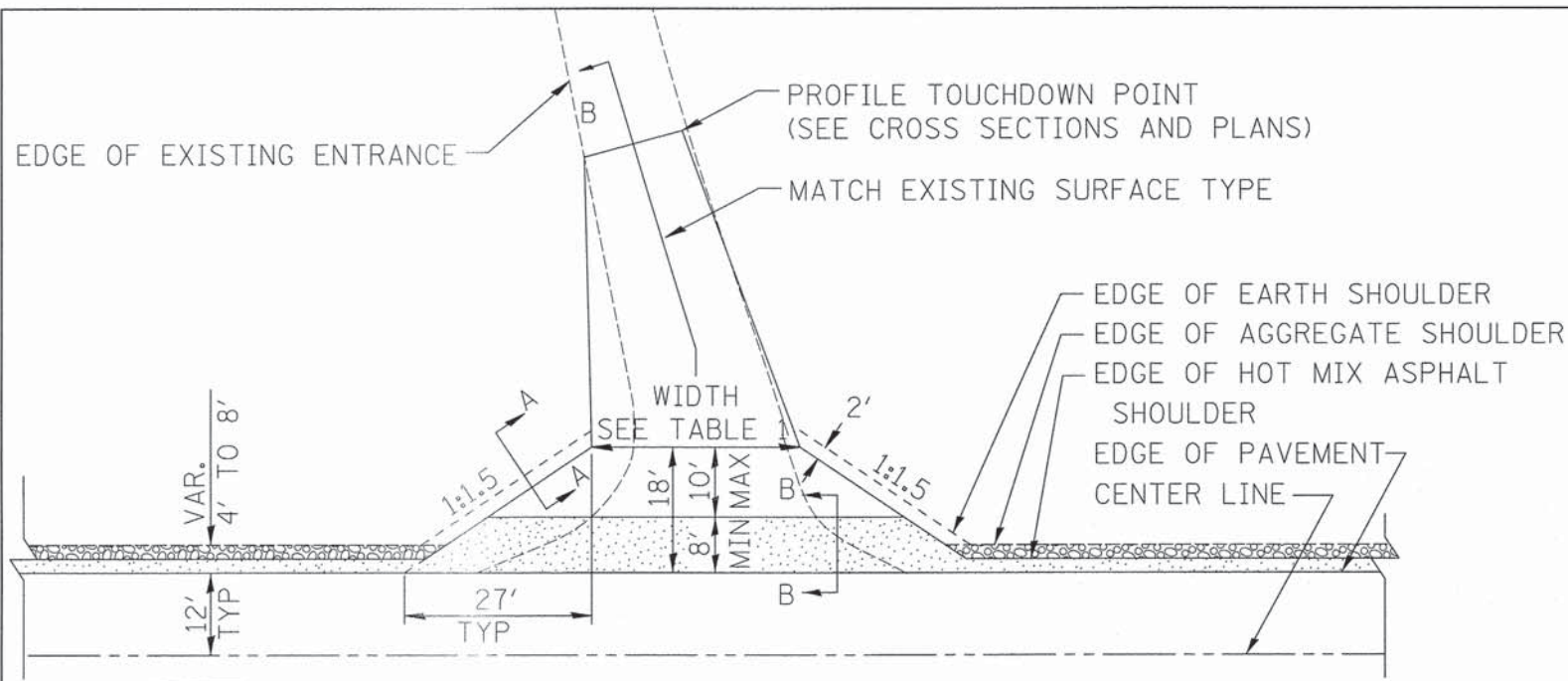
SECTION 12-00103-01-BR
C.H. 11 OVER SPOON RIVER

SHEET NO. 12 12 SHEETS	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CH 11	12-00103-01-BR	KNOX	50	33
S.N. 048-3402			CONTRACT NO. 89617		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BROS-0095(136)		



ABANDONED CH 11 & TR 1200N TYPICAL GRADING DETAIL

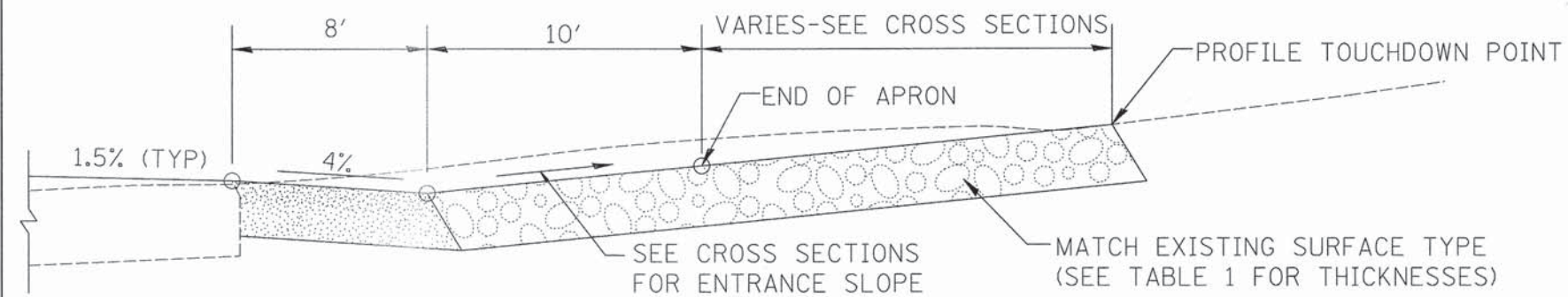
FILE NAME =	USER NAME = Shughes	DESIGNED - RMB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	C.H. 11 DETAILS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
V:\3504 - Knox Cnty - CH 11 - PH II\CADD\CADD Sheets\0489617-sht-detail-1.dgn	DRAWN - SRH	REVISED -	N/A			12-00103-01-BR	KNOX	50	34	
Default	PLLOT SCALE = 20.0000' / in.	CHECKED - WSL	REVISED -			CONTRACT NO. 89617				
	PLLOT DATE = 3/30/2015	DATE - 1/21/2015	REVISED -			ILLINOIS FED. AID PROJECT				
					SCALE: 1"=20'	SHEET 1	OF 1	SHEETS	STA. N/A	TO STA. N/A



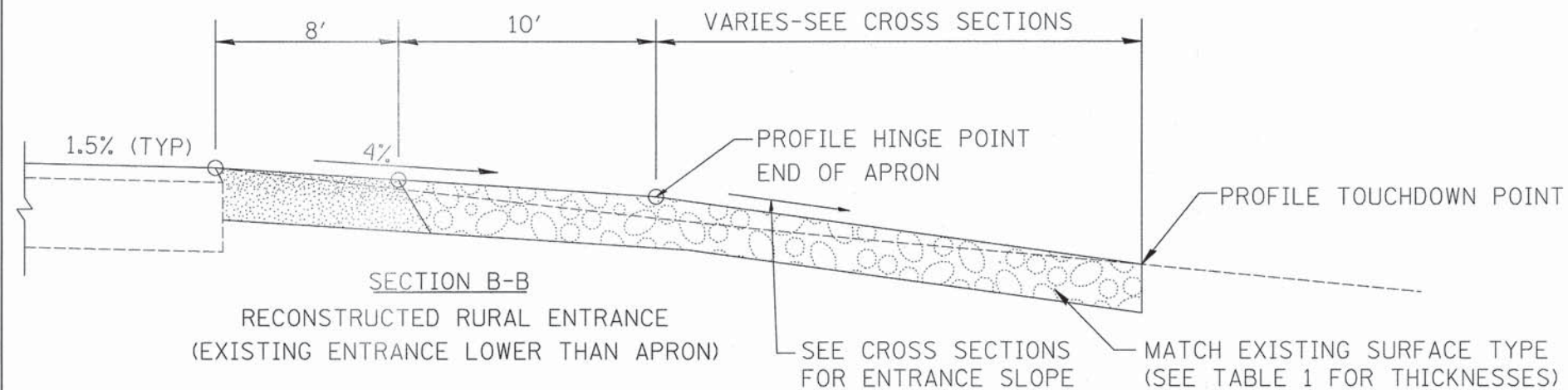
HOT MIX ASPHALT SHOULDER, 8"
 AGGREGATE SHOULDER, TYPE B, 6"

PLAN

COMMERCIAL / FARM-RELATED ENTRANCE

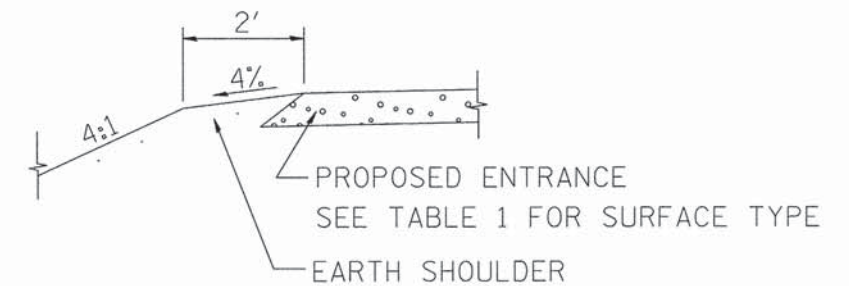


SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE HIGHER THAN APRON)



SECTION B-B
RECONSTRUCTED RURAL ENTRANCE
(EXISTING ENTRANCE LOWER THAN APRON)

TABLE 1								
RURAL ENTRANCE DESIGN								
ELEMENT	NON-COMMERCIAL		NON-COMMERCIAL W/ LARGE FARM EQUIPMENT		COMMERCIAL			
	12' Min.	24' Max.	20' Max.	30' Max.	1-WAY OPERATION		2-WAY OPERATION	
WIDTH (W)					14' Min.	24' Max.	24' Min.	35' Max.
FLARE	1:1.5							
MAX. GRADE (G)	12%		12%		10%			
SURFACE TYPE								
INCIDENTAL HOT MIX ASPHALT SURFACING	6"		—		8"			
AGGREGATE SURFACE COURSE	6"		8"		8"			
PCC DRIVEWAY PAVEMENT	6"		—		7"			



SECTION A-A
SHOULDER TREATMENT FOR RURAL ENTRANCES

GENERAL NOTES

- ENTRANCES SHALL SLOPE AWAY FROM THE PAVEMENT AT A RATE EQUAL TO THE SHOULDER SLOPE FOR A MINIMUM DISTANCE OF 8'.
- A MINIMUM 8' PAVED SHOULDER SHALL BE CONSTRUCTED BETWEEN LOCATIONS WHERE THE RURAL ENTRANCE IS LESS THAN 50' FROM AN ADJACENT SIDEROAD, ENTRANCE OR MAILBOX TURNOUT.
- A TAPER RATE OF 5:1 IS DESIRABLE WHEN TRANSITING FROM THE RURAL ENTRANCE WIDTH SHOWN IN TABLE 1, TO THE EXISTING ENTRANCE WIDTH.

01-01-97	RENUM. C-103.06, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	M.A.
07-01-97	REVISE DESIGNER NOTES	J.A.			
01-17-03	ADJUST DESIGN, CHANGE ENTRANCE	JATR			
09-15-05	RADIUS FOR FLARE	M.M.A.			

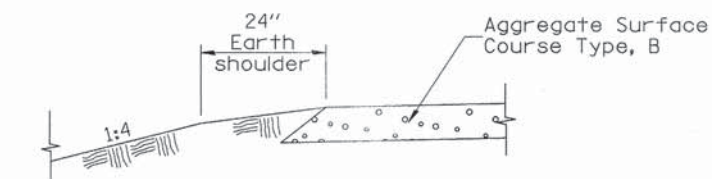
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RURAL ENTRANCES FOR "3R" PROJECTS

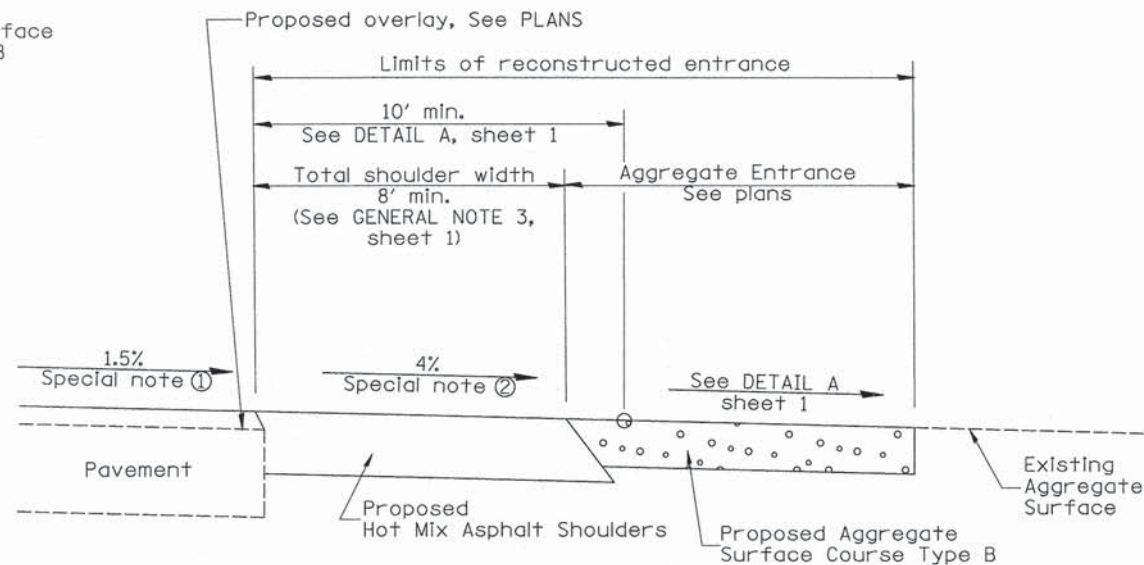
NOT TO SCALE

SHT. 1 OF 2
CADD STD. 406301-D4

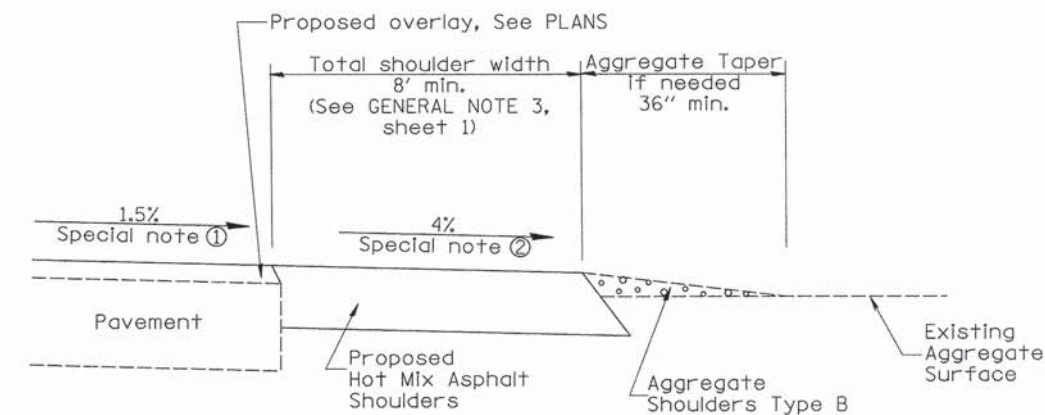
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00103-01-BR	KNOX	50	35
CONTRACT NO. 89617				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



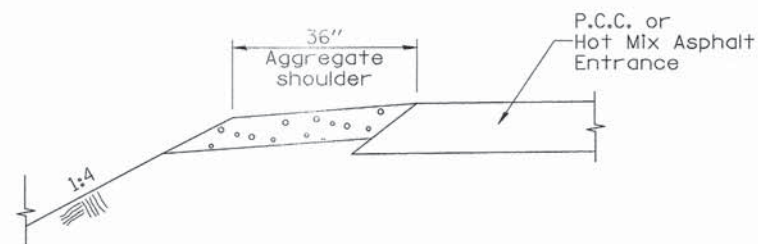
SECTION A-A
SHOULDER TREATMENT FOR AGGREGATE ENTRANCES



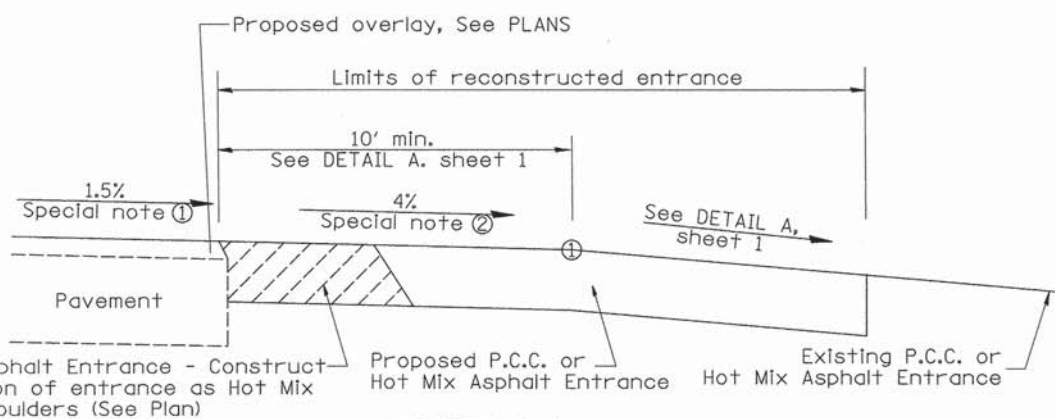
SECTION B-B
RECONSTRUCTED AGGREGATE ENTRANCE



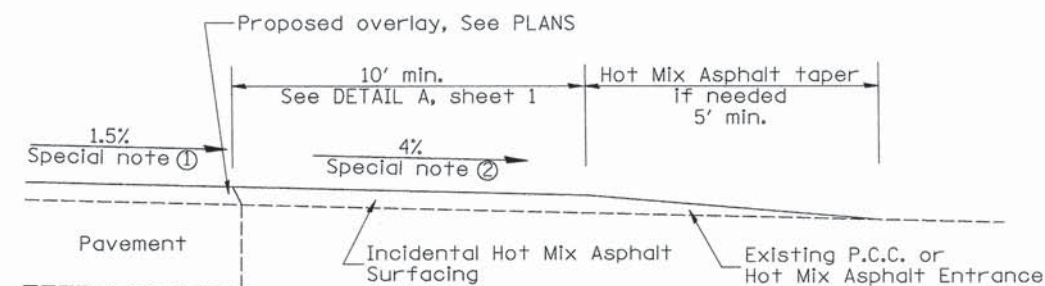
SECTION B-B
EXISTING AGGREGATE ENTRANCE



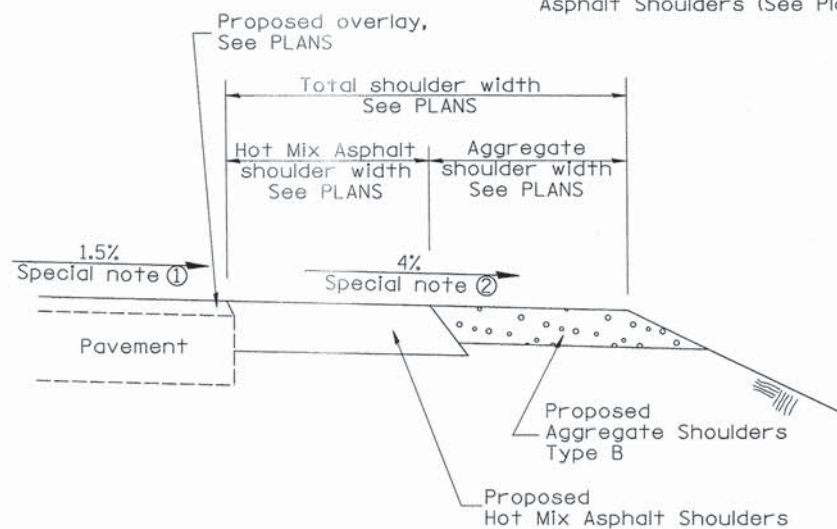
SECTION C-C
SHOULDER TREATMENT FOR P.C.C. OR HOT MIX ASPHALT ENTRANCES



SECTION D-D
RECONSTRUCTED P.C.C. OR HOT MIX ASPHALT ENTRANCE



SECTION D-D
EXISTING P.C.C. OR HOT MIX ASPHALT ENTRANCE



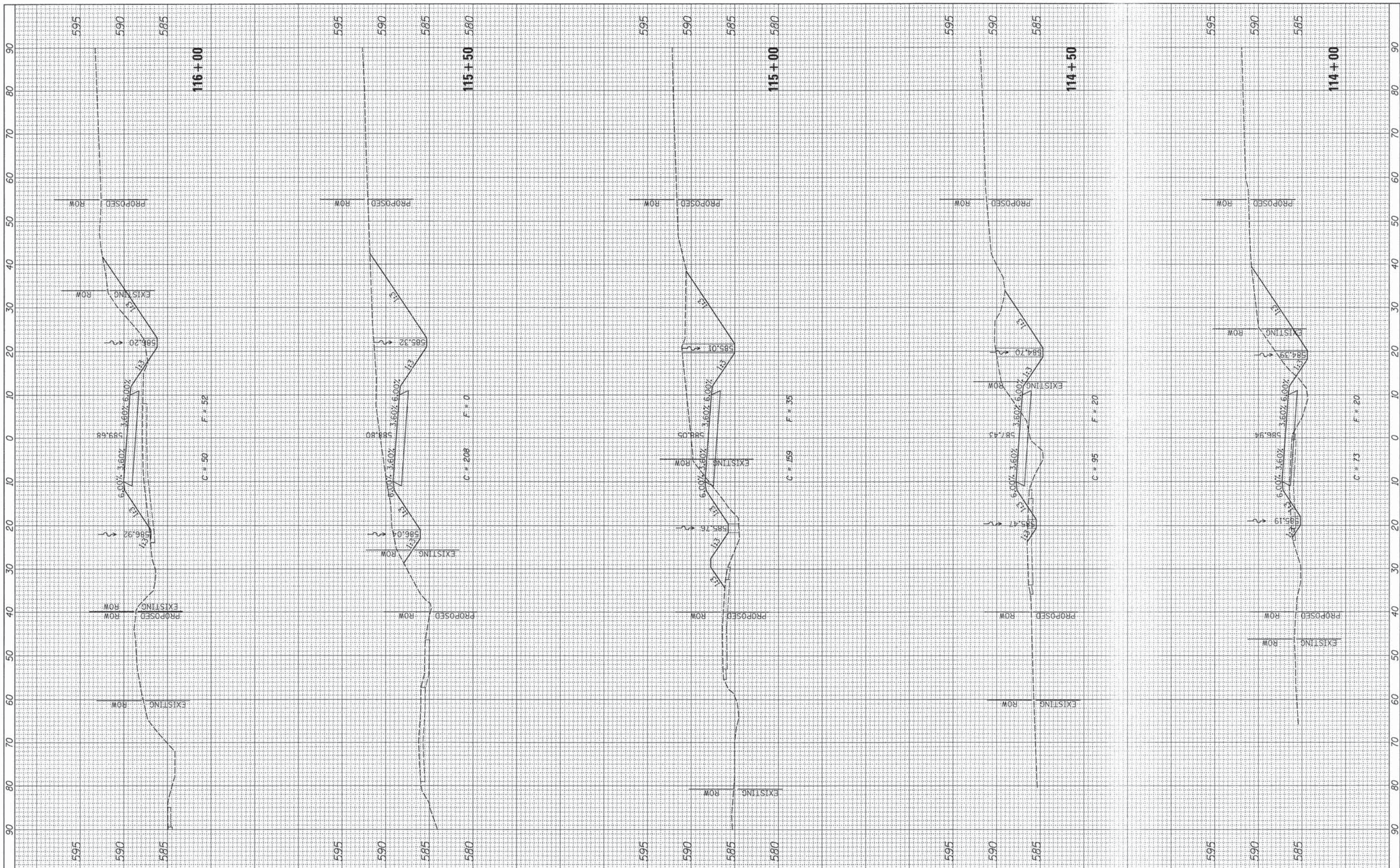
SECTION E-E
MAINLINE SHOULDER TREATMENT

SPECIAL NOTES

- ① The mainline pavement cross-slope is 1.5% for tangent alignment. See PLANS for cross-slope on superelevated horizontal curves.
- ② The shoulder slope shall control the entrance profile for a distance of 10' minimum from the pavement edge. The shoulder cross-slope is 4% for tangent alignment. Through superelevated curves, the maximum pavement-shoulder breakover should not be greater than 10% for shoulders 6' and wider and 12% for shoulders 4' and less. Where 12' paved shoulders are provided, the breakover should be at the edge of the paved shoulder rather than at the pavement edge.

FINAL SURVEY	SURVEYED	DATE
NO.	NO.	
AREAS CHECKED	AREAS CHECKED	
NOTE BOOK	NOTE BOOK	
UPDATE	UPDATE	
PLATE	PLATE	
NO.	NO.	

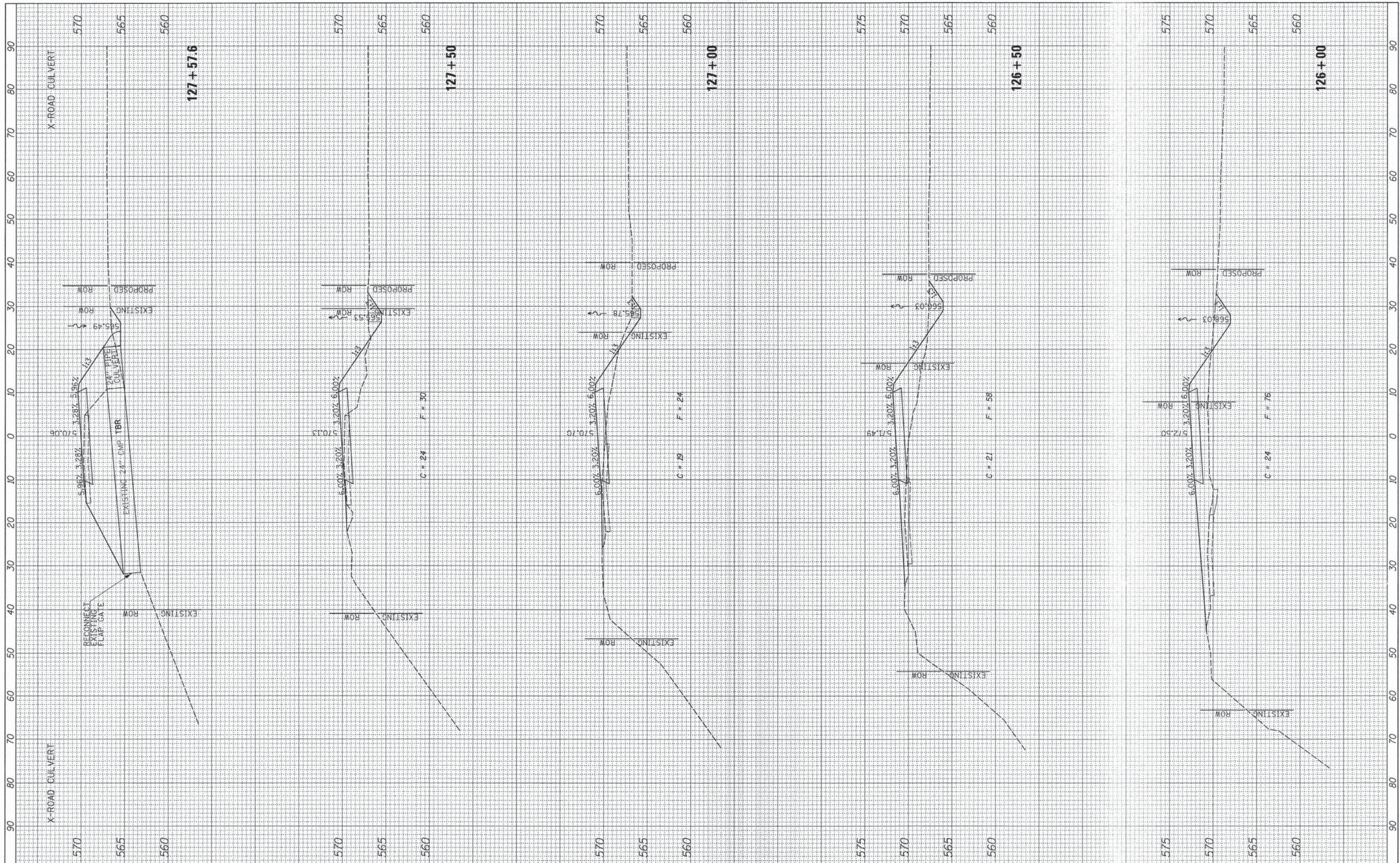
ORIGINAL SURVEY	SURVEYED	DATE
NO.	NO.	
AREAS CHECKED	AREAS CHECKED	
NOTE BOOK	NOTE BOOK	
UPDATE	UPDATE	
PLATE	PLATE	
NO.	NO.	



FILE NAME = V:\3504 - Knox Cnty - CH 11 - PH II\CAADD\CADD Sheets\D489617-sht-xsht-CH11.dgn	USER NAME = Shughes	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	C.H. 11 CROSS SECTIONS SCALE: H=10 V=5 SHEET 2 OF 8 SHEETS STA. 114+00 TO STA. 116+00	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 10,0000' / in.	DRAWN -	REVISED -			N/A	12-00103-01-BR	KNOX	50	38	
	PLOT DATE = 3/30/2015	CHECKED -	REVISED -			CONTRACT NO. 89617					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

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

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



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 DRAWN -
 CHECKED -
 DATE -

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 PLOT SCALE = 10,0000' / 1" =
 PLOT DATE = 3/30/2015

REVISIED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

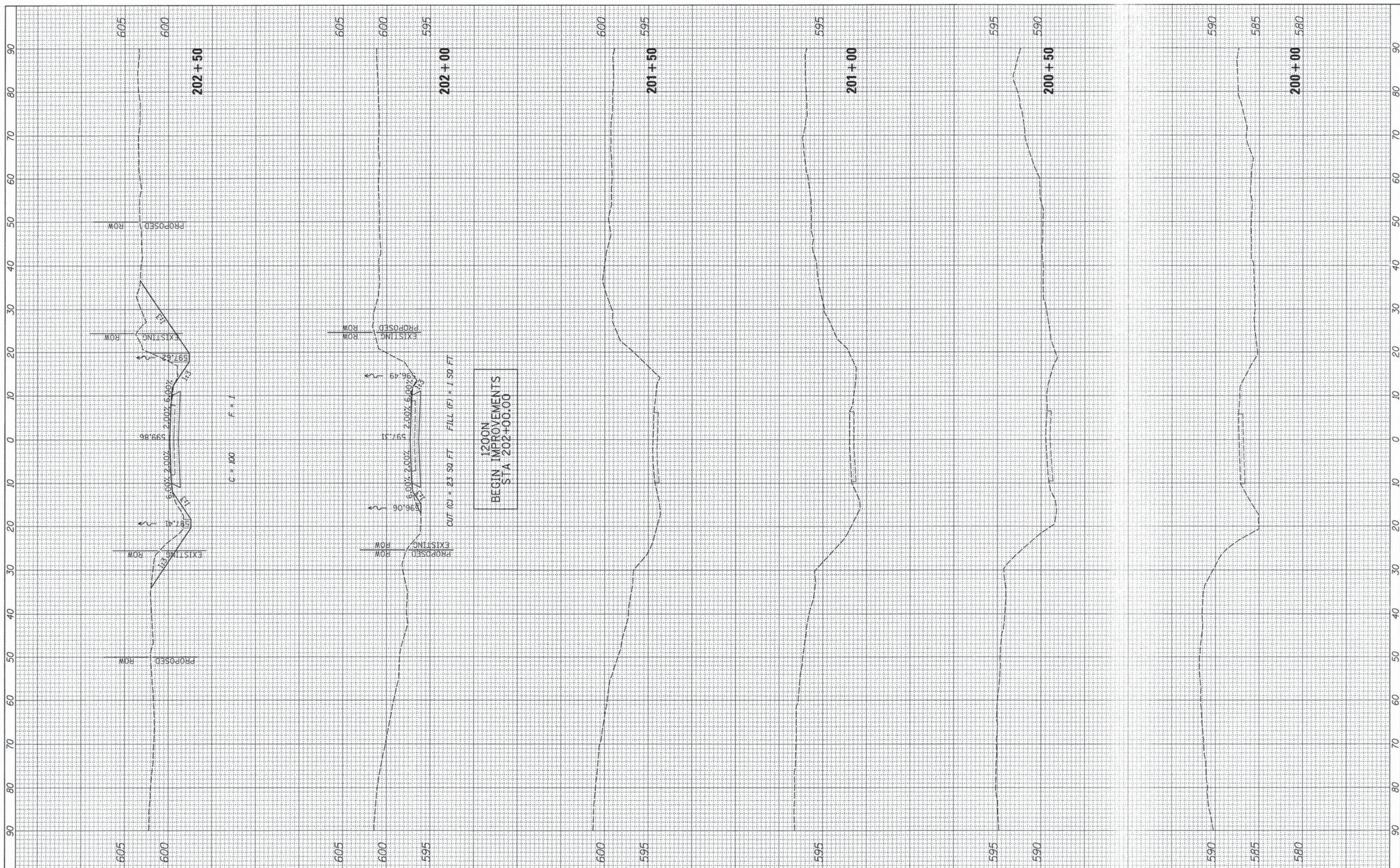
C.H. 11 CROSS SECTIONS

SCALE: H=10 V=5 SHEET 7 OF 8 SHEETS STA. 126+00 TO STA. 127+57.6

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00103-01-BR	KNOX	50	43
CONTRACT NO. 89617				
ILLINOIS FED. AID PROJECT				

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

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



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 USER NAME = Shughes
 PLOT SCALE = 10,0000' / in.
 PLOT DATE = 3/30/2015

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

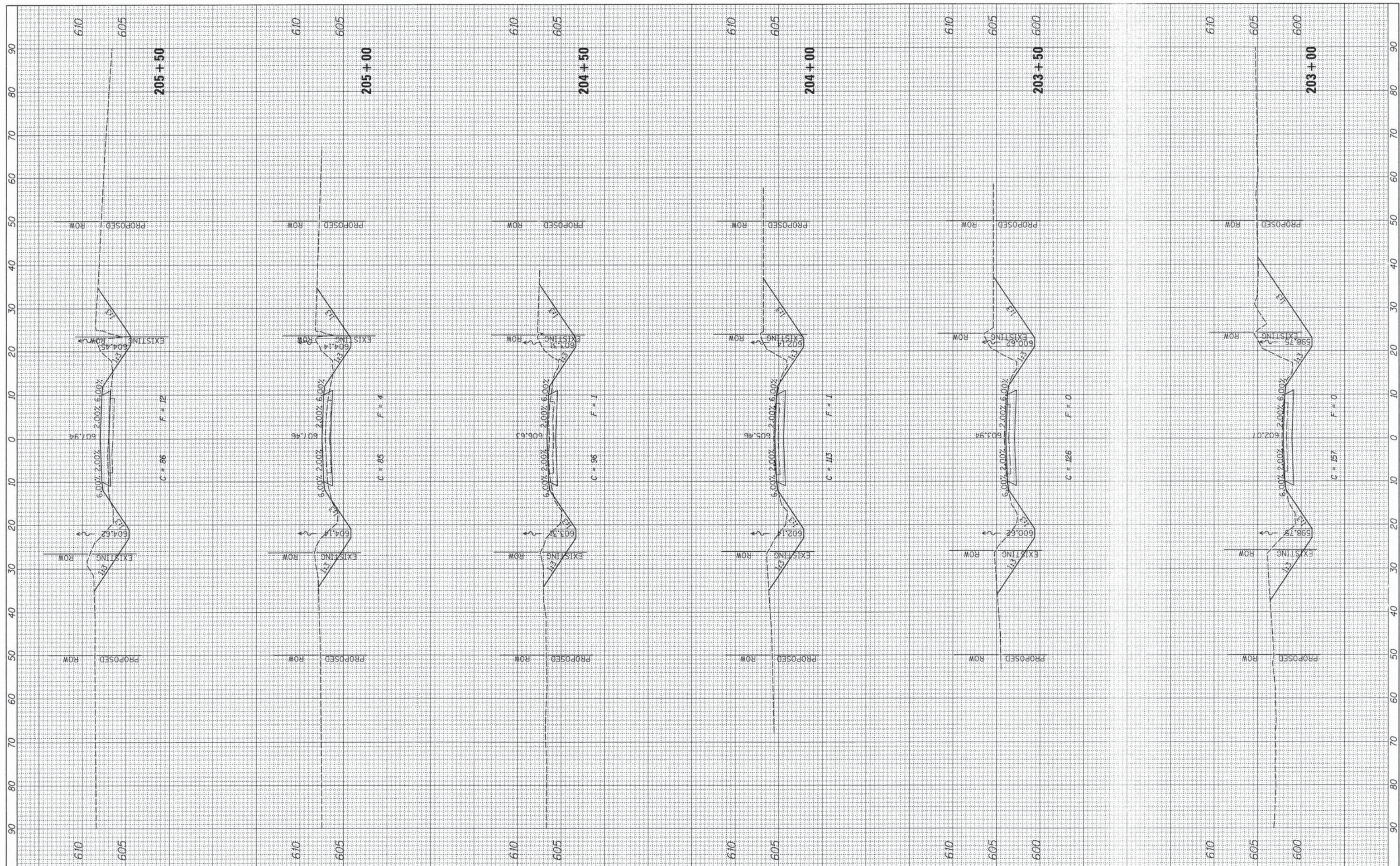
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

1200N CROSS SECTIONS
 SCALE: H=10 V=5 SHEET 1 OF 4 SHEETS STA. 200+00 TO STA. 202+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00103-01-BR	KNOX	50	45
CONTRACT NO. 89617				
ILLINOIS FED. AID PROJECT				

BY	DATE
SURVETED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

BY	DATE
SURVETED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	



FILE NAME = V:\3504 - Knox Cnty - CH II - PH II\CADD\CADD Sheets\0489617-sht-xsht-1200N.dgn
 USER NAME = Shughes
 PLOT SCALE = 1/8" = 10.0000' / 1"
 PLOT DATE = 3/30/2015

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

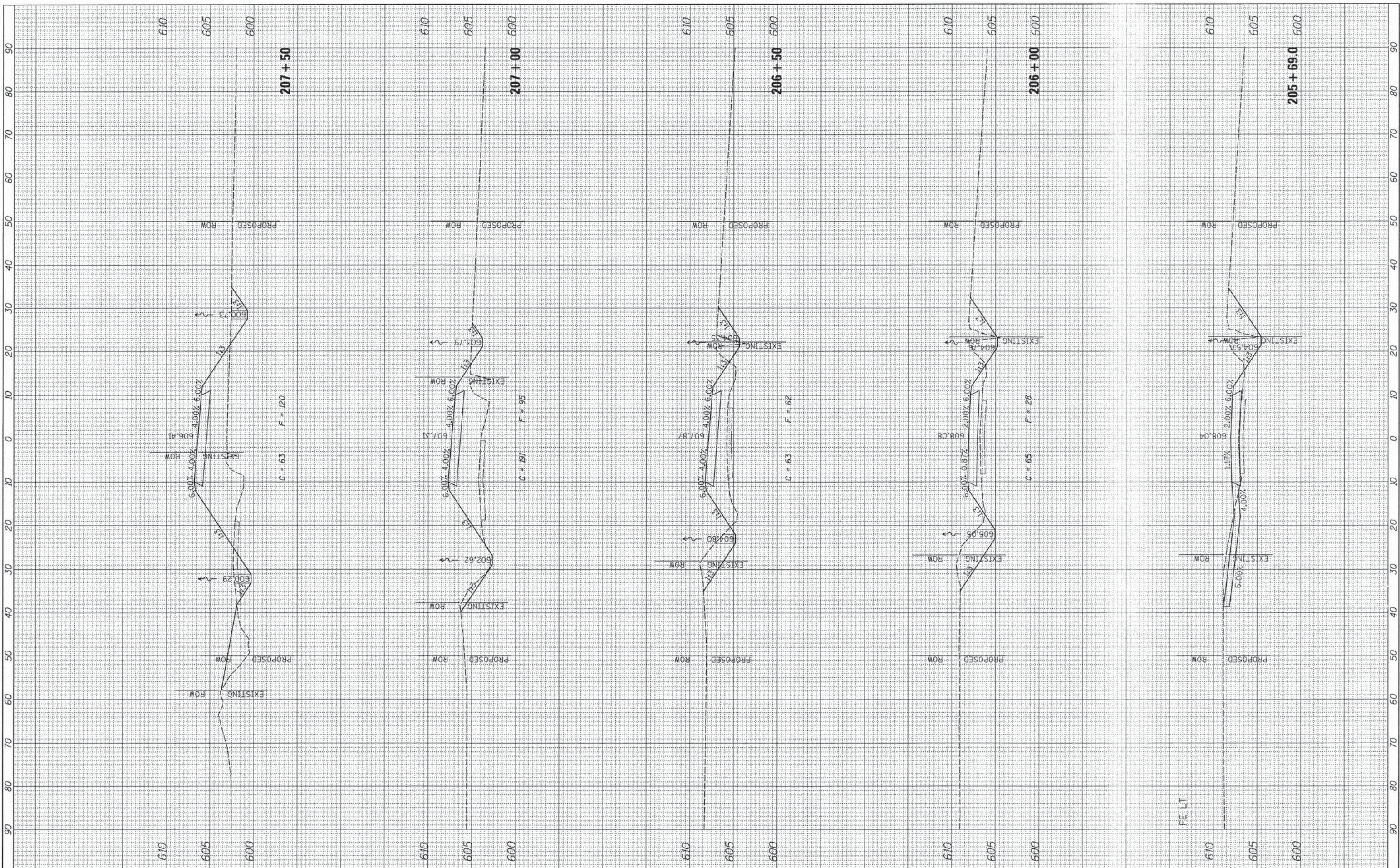
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

1200N CROSS SECTIONS
 SCALE: H=10 V=5 SHEET 2 OF 4 SHEETS STA. 203+00 TO STA. 205+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00103-01-BR	KNOX	50	46
CONTRACT NO. 89617				
ILLINOIS FED. AID PROJECT				

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

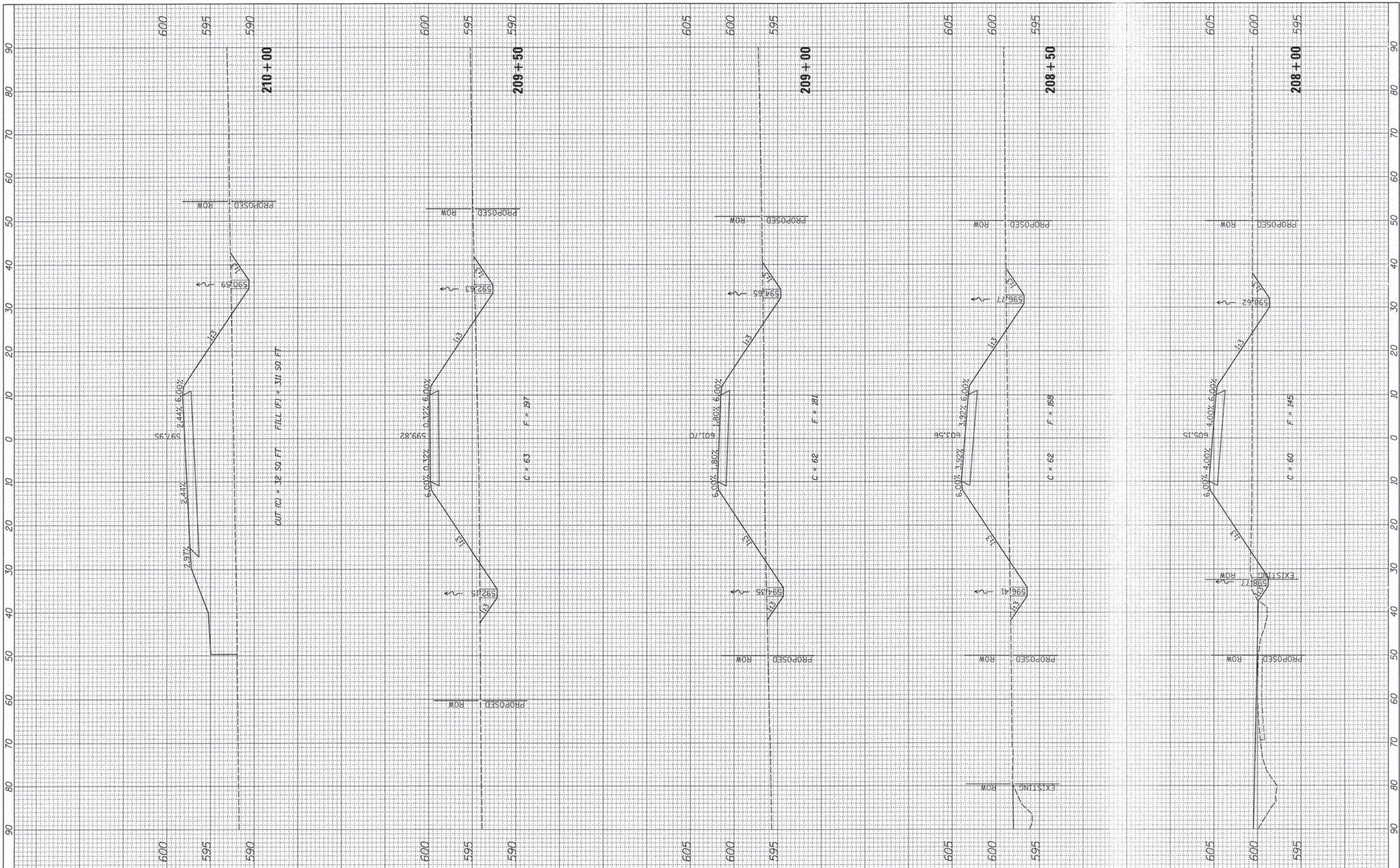
ORIGINAL SURVEY	SURVEYED	BY	DATE
PLOTTED			
NOTE BOOK			
AREAS			
AREAS CHECKED			
NO.			



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Default	PLOT SCALE = 10.0000' / 1"	DRAWN -	REVISED -		SCALE: H=10 V=5	SHEET 3 OF 4 SHEETS	STA. 205+69 TO STA. 207+50	N/A	12-00103-01-BR	KNOX	50	47
	PLOT DATE = 3/30/2015	CHECKED -	REVISED -					CONTRACT NO. 89617				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = V:\3504 - Knox Cnty - CH 11 - PH 11\CAADD\CAOD Sheets\0489617-ah1-xssht-1200N.dgn

USER NAME = Shughes
 PLOT SCALE = 18.0000' / 1" / in.
 PLOT DATE = 3/30/2015

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

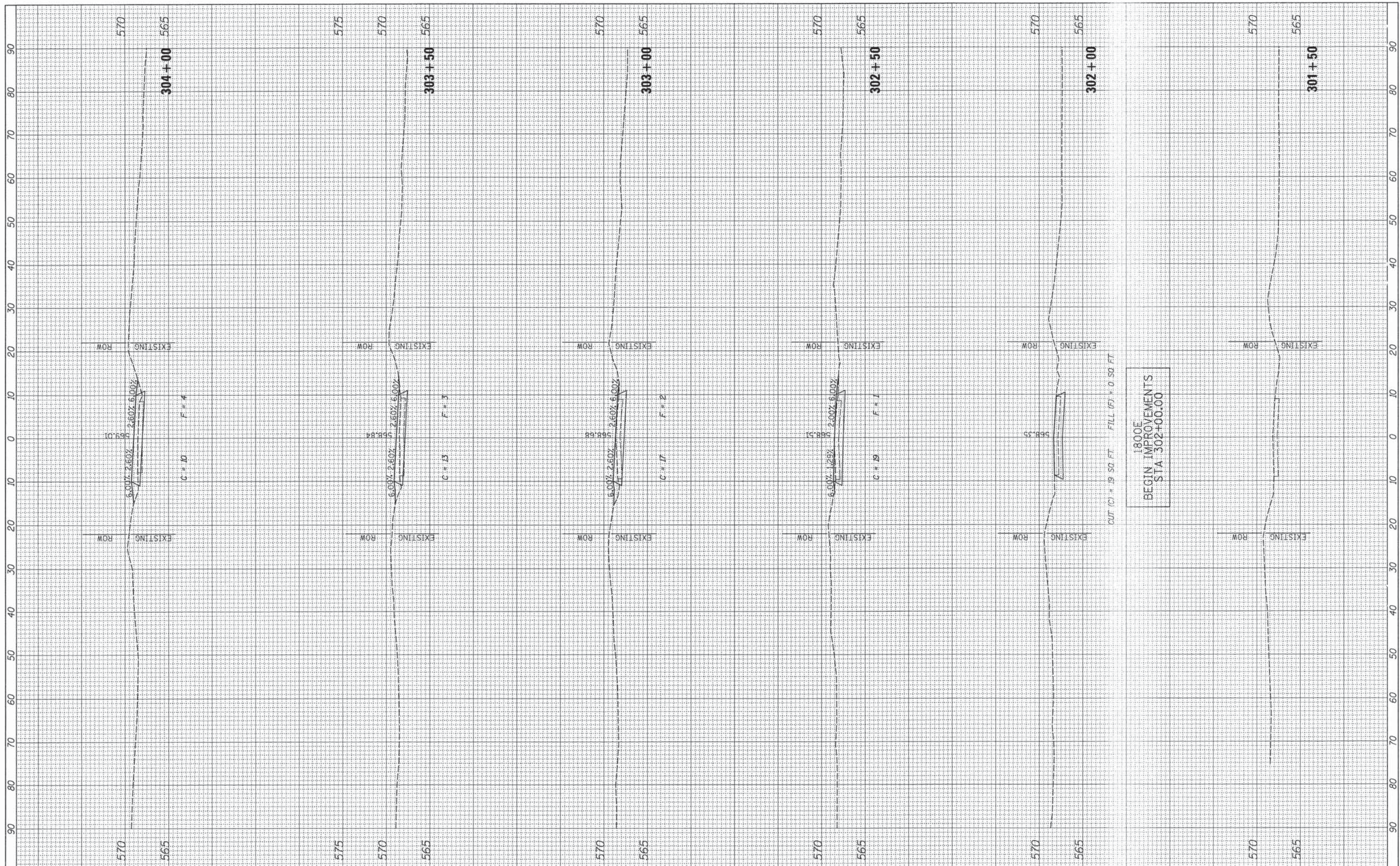
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

1200N CROSS SECTIONS
 SCALE: H=10 V=5 SHEET 4 OF 4 SHEETS STA. 208+00 TO STA. 210+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00103-01-BR	KNOX	50	48
CONTRACT NO. 89617				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	BY	DATE
PLANNED		
REVISIONS		
NOTE BOOK		
NO.		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
PLANNED		
REVISIONS		
NOTE BOOK		
NO.		
AREAS CHECKED		



FILE NAME =
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USER NAME = Shughes
 DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

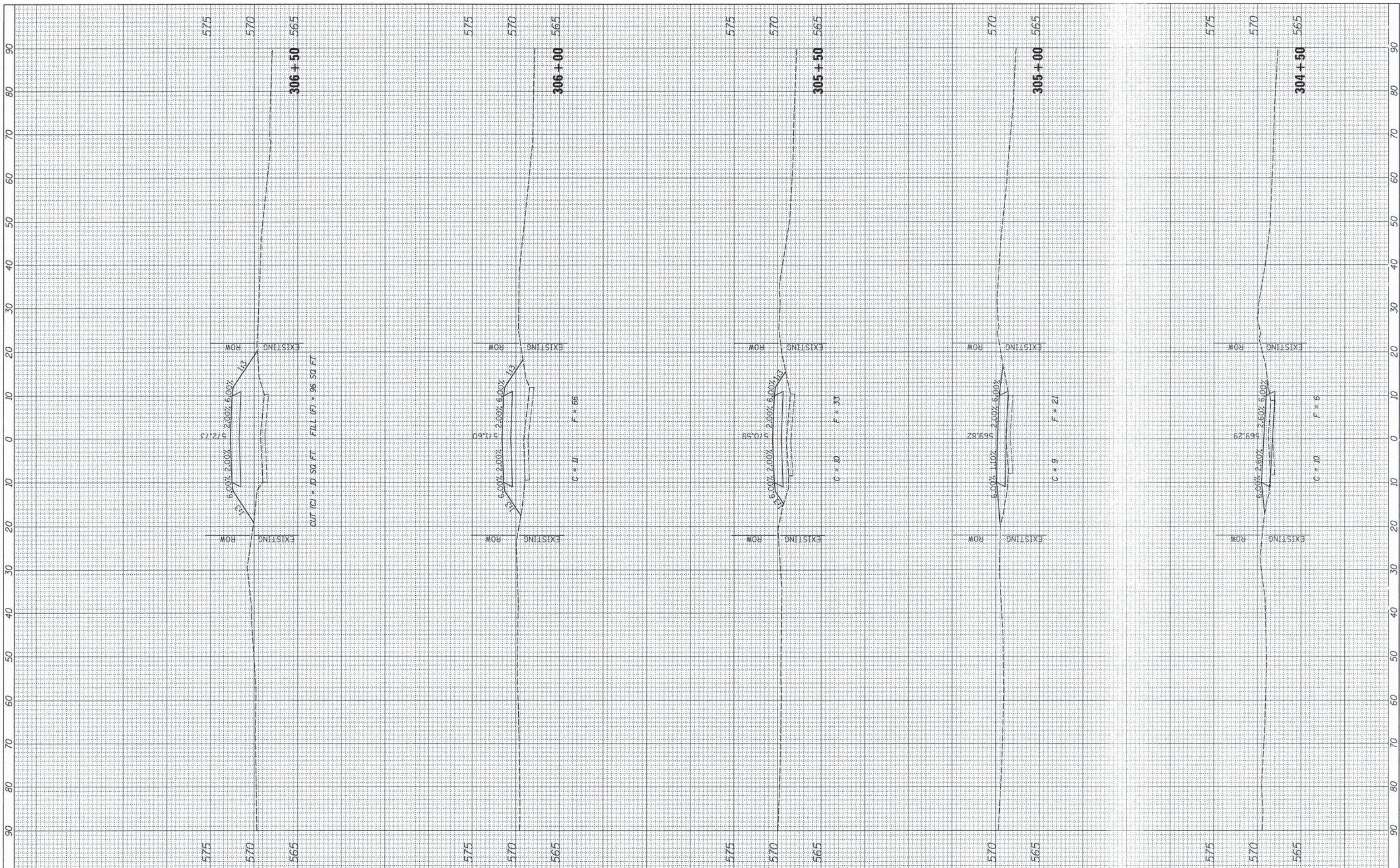
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

1800E CROSS SECTIONS
 SCALE: H=50 V=5 SHEET 1 OF 2 SHEETS STA. 301+50 TO STA. 304+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00103-01-BR	KNOX	50	49
CONTRACT NO. 89617				
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = V:\3504 - Knox Cnty - CH II - PH II\CADD\CADD Sheets\0489617-sht-xssht-1800E.dgn
 USER NAME = Shughes
 PLOT SCALE = 10,0000' / in.
 PLOT DATE = 3/30/2015

DESIGNED -
 DRAWN -
 CHECKED -
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

1800E CROSS SECTIONS
 SCALE: H=50 V=5 SHEET 2 OF 2 SHEETS STA. 304+50 TO STA. 306+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	12-00103-01-BR	KNOX	50	50
CONTRACT NO. 89617				
ILLINOIS FED. AID PROJECT				