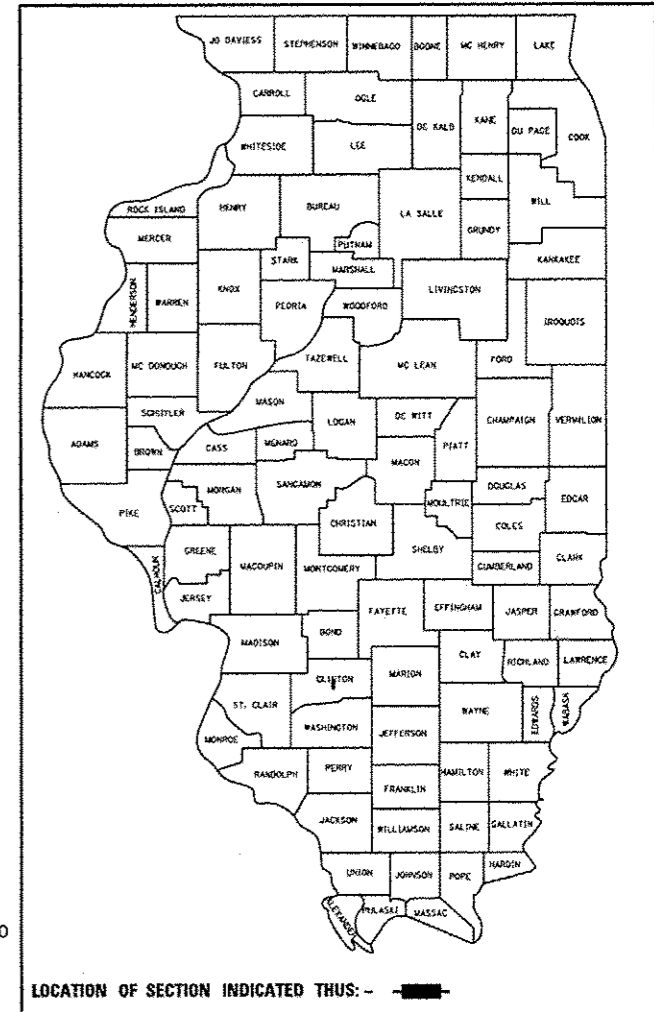


TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
109	12-01114-00-BR	CLINTON	75	1
FED. AID PROJECT		ILLINOIS	CONTRACT NO. 97647	

# MAJOR BRIDGE PROGRAM

## DETAIL PLANS FOR TR 109 (OLD STATE ROAD) OVER SHOAL CREEK SECTION 12-01114-00-BR CLINTON COUNTY

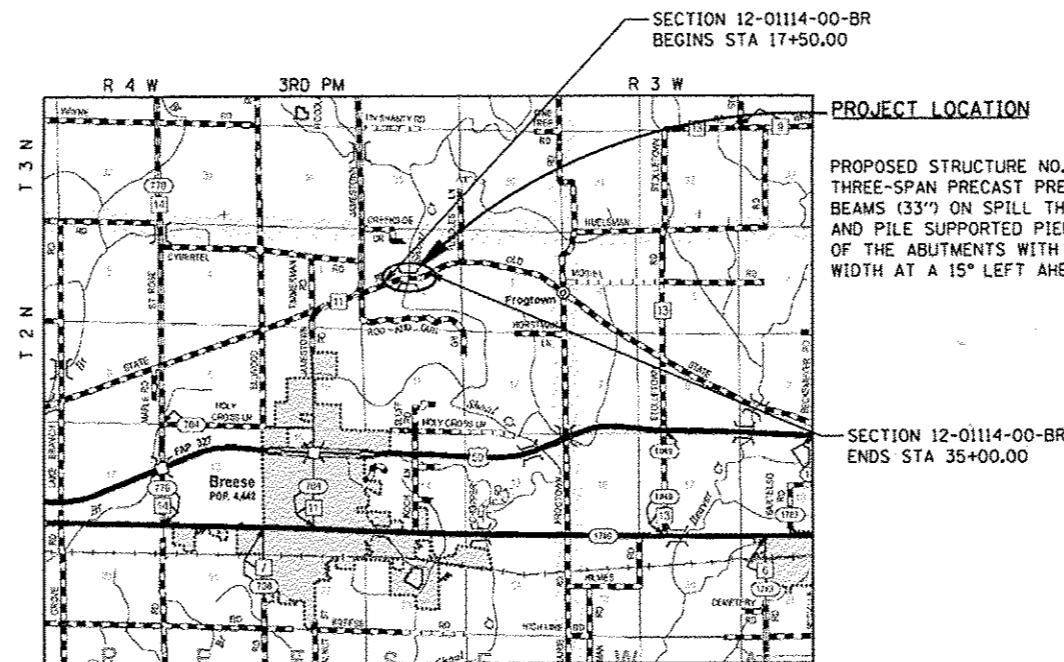
PROJECT NO. BROS-0027(046)  
JOB NO. C-98-312-13



- INDEX OF SHEETS**
- COVER SHEET
  - GENERAL NOTES AND HIGHWAY STANDARDS
  - SUMMARY OF QUANTITIES
  - TYPICAL ROADWAY SECTIONS
  - SCHEDULES OF QUANTITIES
  - ALIGNMENT, TIES AND BENCHMARKS
  - PLAN AND PROFILE EXISTING CONDITIONS AND REMOVALS
  - PLAN AND PROFILE PROPOSED IMPROVEMENTS
  - EROSION CONTROL PLAN
  - CONSTRUCTION DETAILS
  - GENERAL PLAN & ELEVATION
  - GENERAL DATA
  - SUPERSTRUCTURE
  - 33"x36" PPC DECK BEAM
  - 33"x36" PPC DECK BEAM DETAILS
  - PILE BENT ABUTMENT
  - PIER DETAILS
  - STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE
  - HP PILE DETAILS
  - SOIL BORING LOGS
  - CROSS-SECTIONS

**DESIGN CLASSIFICATION**

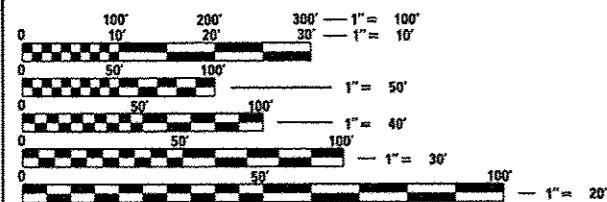
LOCAL ROAD (RURAL) ADT = 400-750  
CURRENT ADT = 475 (2015)  
DESIGN ADT = 725 (2032)  
DESIGN SPEED = 50 MPH



PROPOSED STRUCTURE NO. 014-4059 STATION 24+60.00  
THREE-SPAN PRECAST PRESTRESSED CONCRETE DECK  
BEAMS (33" ON SPILL THRU PILE BENT ABUTMENTS  
AND PILE SUPPORTED PIERS MEASURING 240'-1" B-B  
OF THE ABUTMENTS WITH A 30'-0" CLEAR ROADWAY  
WIDTH AT A 15° LEFT AHEAD SKEW

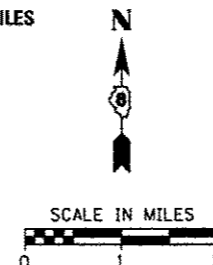
LOCATION MAP

NET LENGTH OF PROJECT = 1,750 FEET = 0.331 MILES



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



CLINTON COUNTY HIGHWAY DEPARTMENT

APPROVED 3-14 2017  
*Cletus Ratermann*  
ROAD COMMISSIONER

APPROVED 3-14 2017  
*David Boh*  
CLINTON COUNTY ENGINEER

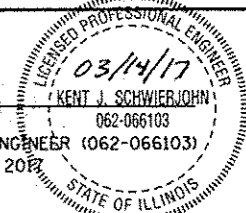
PASSED March 17 2017  
*John*  
acting DISTRICT 8 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID  
BASED UPON LIMITED  
REVIEW March 17 2017  
*Kevin*  
REGIONAL ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



*Kent J. Schwier*  
KENT J. SCHWIERJOHN, P.E.  
ILLINOIS REGISTERED PROFESSIONAL ENGINEER (062-066103)  
REGISTRATION EXPIRES NOVEMBER 30, 2018



**GENERAL NOTES**

1. ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
2. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MAY HAVE BEEN CAUSED BY THE CONTRACTOR'S FAILURE TO LOCATE AND PRESERVE ANY AND ALL EXISTING UNDERGROUND UTILITIES. THE APPROXIMATE LOCATIONS OF THE KNOWN UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST INFORMATION AVAILABLE AT THE TIME OF DESIGN.
3. THE CONTRACTOR SHALL GIVE AT LEAST TWO WEEKS NOTICE BEFORE BEGINNING CONSTRUCTION SO THE ENGINEER MAY GIVE ADEQUATE NOTICE TO ALL EMERGENCY, SCHOOL AND POSTAL SERVICES.
4. THE CONTRACTOR SHALL EXERCISE CARE IN PERFORMING REMOVALS SO AS NOT TO DISRUPT ADJOINING FEATURES THAT ARE TO REMAIN IN PLACE. ANY DAMAGE CAUSED TO ADJOINING FEATURES AS A RESULT OF THE CONTRACTOR'S NEGLIGENCE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER.
5. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL AND PROTECTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING POSITIVE DRAINAGE IN THE DISTURBED AREAS, TO THE SATISFACTION OF THE ENGINEER. ANY GRADING SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
7. ALL AREAS THAT ARE DISTURBED BEYOND THE SEEDING LIMITS SHALL BE GRADED AND SEEDING RE-ESTABLISHED BY THE CONTRACTOR AT HIS/HER EXPENSE, IN THE SAME MANNER AS FINAL GRADING WORK PER THE SPECIFICATIONS, TO THE SATISFACTION OF THE ENGINEER.
8. IF ASH TREES ARE REMOVED ON THE PROJECT, THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH MEASURES SPECIFIED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE (IDOA) TO PREVENT THE SPREAD OF THE EMERALD ASH BORER. THE IDOA INFORMATION FOR ASH TREE REMOVAL CAN BE FOUND ON THE IDOA WEBSITE AT WWW.AGR.STATE.IL.US/EAB.
9. GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE FILLS OR CUTS ARE ADJACENT TO THESE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE, IN THE ORIGINAL STATE, AS MUCH AREA AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
10. REMOVAL OF EXISTING AGGREGATE AND OIL & CHIP SURFACE WILL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION, WHERE IT CONFLICTS WITH CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
11. ALL ENTRANCES WITHIN THE PROJECT LIMITS SHALL REMAIN ACCESSIBLE, AS DIRECTED BY THE ENGINEER, THROUGHOUT THE TIME OF CONSTRUCTION.
12. AGGREGATE BASE COURSE SHALL BE PROOF ROLLED TO SATISFACTION OF ENGINEER.
13. THE FOLLOWING APPLICATION RATES HAVE BEEN USED IN THE CALCULATION OF THE PLAN QUANTITIES:

AGGREGATE BASE COURSE	2.05 TONS/CY
RIPRAP	1.6 TONS/CY
TEMPORARY DITCH CHECKS	10 FT/DITCH CHECK
BITUMINOUS MATERIALS (PRIME COAT)	0.25 GAL/SY @ 8.35 LBS/GAL
BITUMINOUS MATERIALS (COVER COAT)	0.25 GAL/SY @ 8.35 LBS/GAL (2 APPLICATIONS)
BITUMINOUS MATERIALS (SEAL COAT)	0.25 GAL/SY @ 8.35 LBS/GAL (1 APPLICATION)
AGGREGATE (COVER COAT & SEAL COAT)	25 LBS/SY (3 APPLICATIONS)

**HIGHWAY STANDARDS**

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 515001-03 NAME PLATE FOR BRIDGES
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 630001-11 STEEL PLATE BEAM GUARDRAIL
- 630301-07 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631011-10 TRAFFIC BARRIER TERMINAL, TYPE 2
- 631032-09 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 665001-02 WOVEN WIRE FENCE
- 701901-06 TRAFFIC CONTROL DEVICES
- 725001-01 OBJECT AND TERMINAL MARKERS
- 782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
- BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 22-7 TYP. APPL. OF T.C.D. FOR RURAL LOC. HWYS. (2-LANE 2 WAY RURAL TRAFF.) (RD. CLOSED TO THRU TRAFF.)
- BLR 24-2 MAILBOX TURNOUT FOR LOCAL ROADS

**COMMITMENTS**

NONE

**UTILITIES:**

CALL J.U.L.I.E. BEFORE YOU DIG  
1-800-892-0123 OR 811

**TELEPHONE:**

AT&T  
TODD ISAAK  
CENTRALIA, IL  
(618) 533-3501

**ELECTRIC:**

CLINTON COUNTY ELECTRIC CO-OP  
HARRY J. BULLER  
BREESE, IL  
(618) 526-7282

**WATER:**

NORTHERN BREESE WATER ASSOC. &  
ST ROSE PUBLIC WATER DISTRICT  
PAT NETEMEYER  
AVISTON, IL  
(618) 228-7816

**MIXTURE COMPOSITION TABLE**

MIXTURE USE:	SURFACE
APPLICATION:	HMA SC "C" NSO
AC/PG:	PG 64-22
RAP% (MAX):	SEE SPECIF.
DESIGN AIR VOIDS:	4.0% @ Ndes=50
MIXTURE COMPOSITION:	IL 9.5
FRICTION AGGREGATE:	MIXTURE "C"
MIXTURE WEIGHT:	112 LBS./SQ. YD./IN.

FILE NAME =	USER NAME = hschwartz-john	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES AND HIGHWAY STANDARDS</b>	TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
H:\6848 CC Old State Rd Bridge\CADD Sheets\6848-SHT-GENNOTE.dgn	DRAWN -	REVISED -	109			12-0114-00-BR	CLINTON	75	2	
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 97647							
Default	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
	PLOT DATE = 3/16/2017			SCALE:	SHEET OF SHEETS	STA.	TO STA.			

**SUMMARY OF QUANTITIES**

SPEC. PROV. SPECIALTY ITEM	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	15
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	24
	20100500	TREE REMOVAL, ACRES	ACRE	1.1
•	20200100	EARTH EXCAVATION	CU YD	3050
▪	20300100	CHANNEL EXCAVATION	CU YD	2666
•	20400800	FURNISHED EXCAVATION	CU YD	2210
▪	20800150	TRENCH BACKFILL	CU YD	44
•	20900110	POROUS GRANULAR BACKFILL	CU YD	74
▪	25000210	SEEDING, CLASS 2A	ACRE	1.9
▪	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	171
▪	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	171
▪	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	171
▪	25100115	MULCH, METHOD 2	ACRE	1.9
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	190
	28000305	TEMPORARY DITCH CHECKS	FOOT	330
	28000315	AGGREGATE DITCH CHECKS	TON	32
	28000400	PERIMETER EROSION BARRIER	FOOT	767
	28000500	INLET AND PIPE PROTECTION	EACH	5
	28100809	STONE DUMPED RIPRAP, CLASS A5	TON	850
	35100700	AGGREGATE BASE COURSE, TYPE A 8"	SQ YD	3677
	40200700	AGGREGATE SURFACE COURSE, TYPE A 8"	SQ YD	613
•	40300200	BITUMINOUS MATERIALS (PRIME COAT)	TON	4.5
•	40300400	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	TON	11.5
•	40300500	COVER COAT AGGREGATE	TON	92
•	40300600	SEAL COAT AGGREGATE	TON	46
▪	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	87
	50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
▪	50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
	50105220	PIPE CULVERT REMOVAL	FOOT	105
	50200100	STRUCTURE EXCAVATION	CU YD	98
	50300225	CONCRETE STRUCTURES	CU YD	66.2
	50300280	CONCRETE ENCASEMENT	CU YD	51.0

SUMMARY OF QUANTITIES

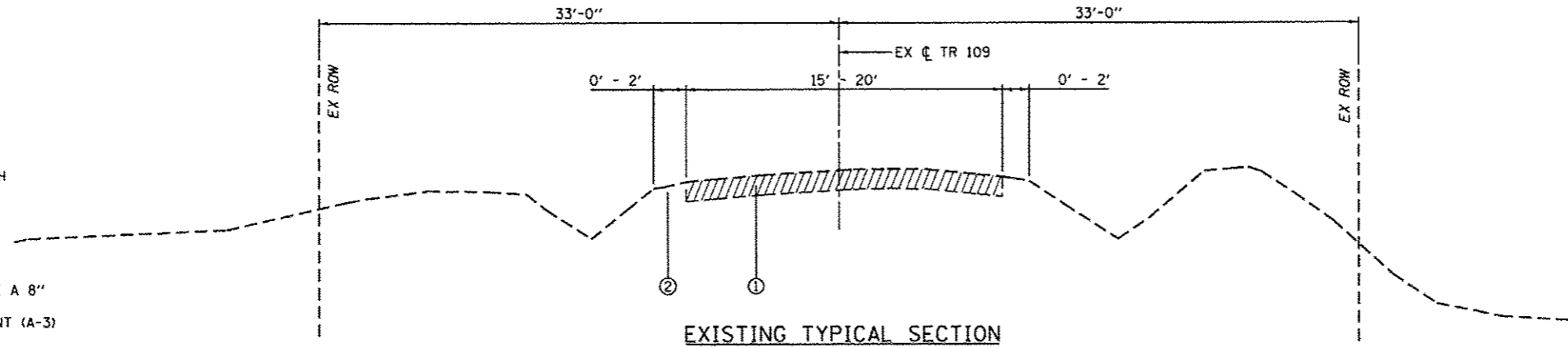
SPEC. PROV. SPECIALTY ITEM	CODE NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
•	50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	7157
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	10020
•	50901050	STEEL RAILING, TYPE SM	FOOT	480
	51201610	FURNISHING STEEL PILES HP12X63	FOOT	275
	51201900	FURNISHING STEEL PILES HP14X89	FOOT	378
	51202305	DRIVING PILES	FOOT	275
	51203610	TEST PILE STEEL HP12X63	EACH	2
	51500100	NAME PLATES	EACH	1
•	54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2
	54011208	PRECAST CONCRETE BOX CULVERTS 12' X 8'	FOOT	72
	542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	48
	542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	88
	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4
	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4
	58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	796
	59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	30.8
•	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	2
•	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	2
•	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	6
	66500105	WOVEN WIRE FENCE, 4'	FOOT	212
	67100100	MOBILIZATION	LSUM	1
•	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	6
•	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	6
•	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	8
•	Z0065000	SETTING PILES IN ROCK	EACH	12
•	Z0013798	CONSTRUCTION LAYOUT	LSUM	1
•	Z0022800	FENCE REMOVAL	FOOT	472
•	X6310188	TRAFFIC BARRIER TERMINAL, TYPE 6A (MODIFIED)	EACH	2
•	X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	75.0
A *	Z007660	TRAINEES	Hour	1,000
•	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1
A *	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	Hour	1,000

Δ = 0042 Trainees

FILE NAME =	USER NAME = kschwarzjohn	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUMMARY OF QUANTITIES</b>			TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
H:\6848 CC Old State Rd Bridge\CADD Sheets\6848-SHT-500.dgn	PLOT SCALE = 22.8000' / in.	DRAWN -	REVISED -					109	12-01114-00-BR	CLINTON	75	4
Default	PLOT DATE = 3/15/2017	CHECKED -	REVISED -		SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.	CONTRACT NO. 97647			
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT			

**LEGEND**

- ① EX OIL AND CHIP SURFACE WITH AGGREGATE BASE, 6"(±)
- ② EX EARTH SHOULDER
- ③ EMBANKMENT
- ④ AGGREGATE BASE COURSE, TYPE A 8"
- ⑤ BITUMINOUS SURFACE TREATMENT (A-3)
- ⑥ EARTH SHOULDERS
- ⑦ GUARDRAIL & TRAFFIC BARRIER TERMINALS



**EXISTING TYPICAL SECTION**

STA 117+50.00 (17+50.00) TO STA 123+96.48 (23+92.16)  
 STA 125+85.38 (25+80.81) TO STA 135+05.12 (35+00.00)

**EXISTING TYPICAL SECTION NOTES:**  
 STATION RANGE REFERENCES EXISTING BASELINE AND (PROPOSED BASELINE).  
 EXISTING STRUCTURE OMISSION FROM STA 123+96.48 TO STA 125+85.38.

**PROPOSED TYPICAL SECTIONS NOTES:**  
 SEE PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS OF PROPOSED GUARDRAIL.  
 SEE PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS OF PROPOSED DITCHES.

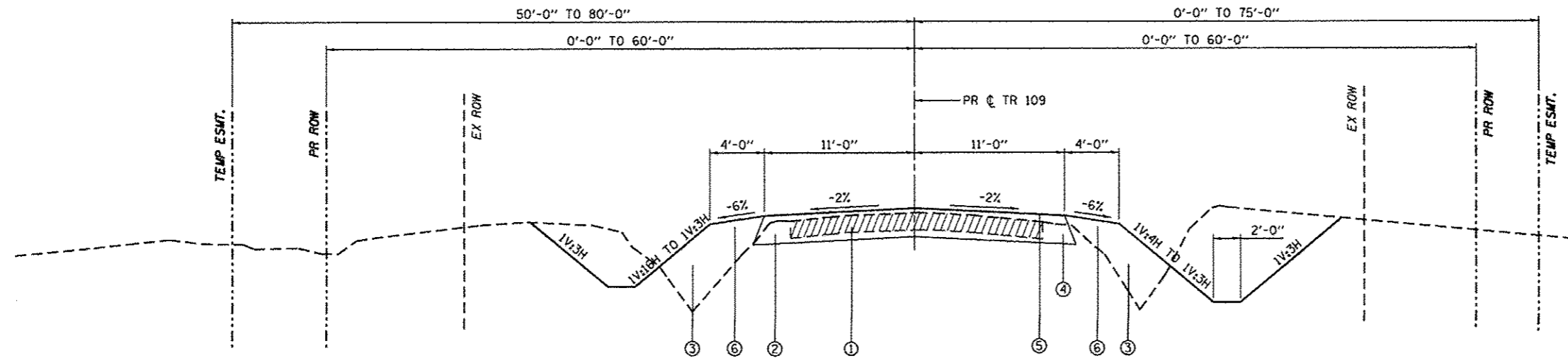
THE FRONT SLOPES FROM LEFT STA 17+50.00 TO STA 19+40.00 AND FROM LEFT STA 21+00.00 TO STA 23+40.00 SHALL BE TIED INTO THE EXISTING TOP OF BANK OF THE LARGE DITCH LOCATED ON THE NORTH SIDE OF THE ROADWAY.

THE FRONT SLOPES FROM STA 27+40.00 TO STA 29+40.00 SHALL BE 1V:4H.

THE ROADWAY CROSS-SLOPE SHALL BE -1.5% FROM STA 22+42 RT TO STA 26+12 RT.

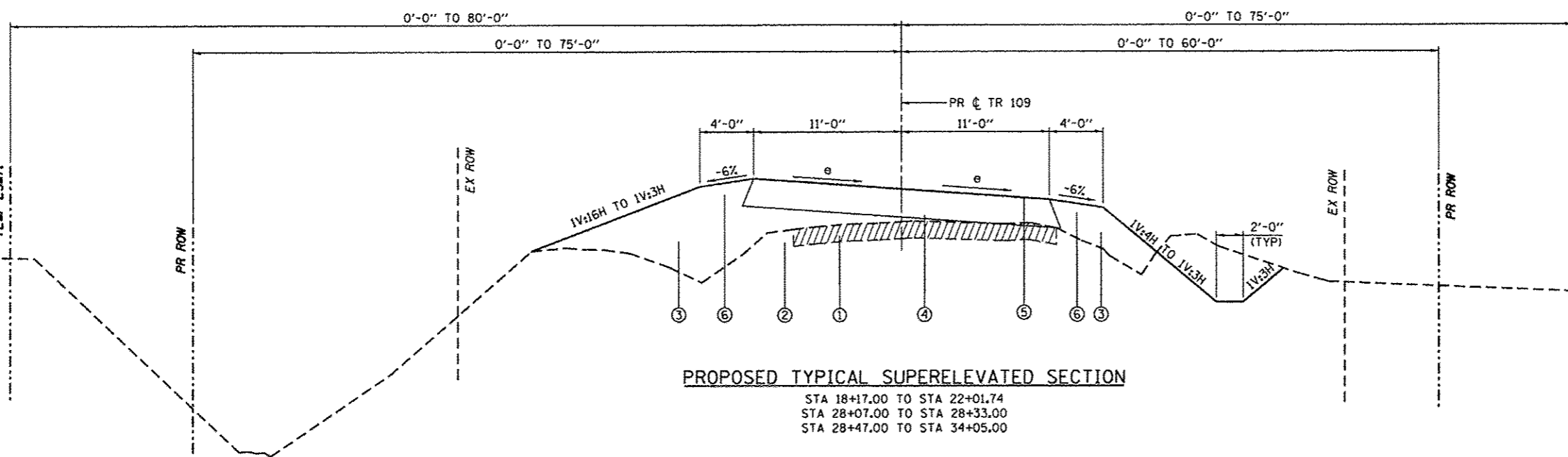
THE ROADWAY CROSS-SLOPE SHALL BE -1.5% FROM STA 23+08 LT TO STA 26+12 LT.

PROPOSED STRUCTURE OMISSION FROM STA 23+40.00 TO STA 25+80.00.



**PROPOSED TYPICAL TANGENT SECTION**

STA 17+50.00 TO STA 18+17.00  
 STA 27+95.04 TO STA 28+07.00  
 STA 34+05.00 TO STA 35+00.00



**PROPOSED TYPICAL SUPERELEVATED SECTION**

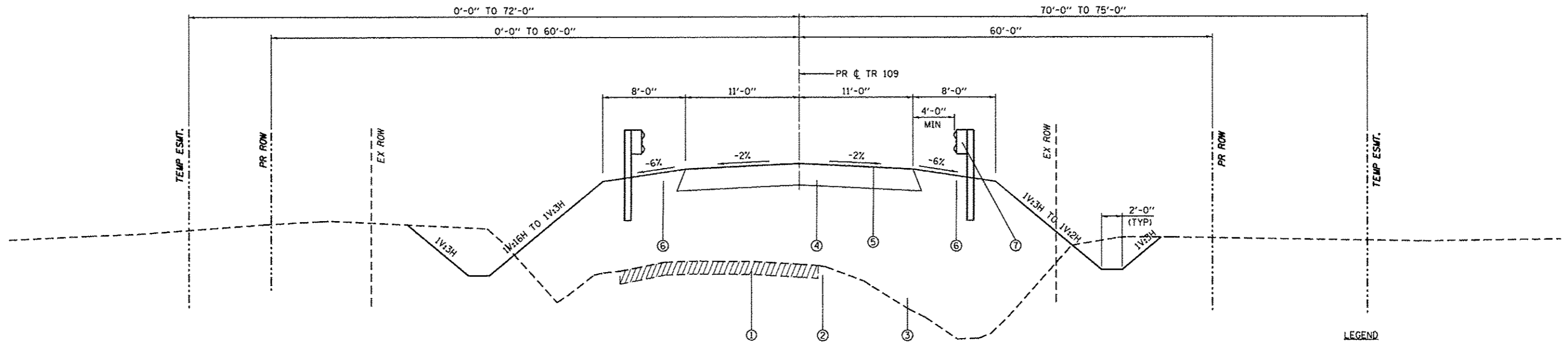
STA 18+17.00 TO STA 22+01.74  
 STA 28+07.00 TO STA 28+33.00  
 STA 28+47.00 TO STA 34+05.00

**SUPERELEVATION: CURVE PR.TR109-1**

Station	LEFT Cross Slope (%)	RIGHT Cross Slope (%)
18+00.00	-2.00	-2.00
18+17.00	-2.00	-2.00
18+20.00	-1.86	-2.00
18+40.00	-0.95	-2.00
18+60.00	-0.05	-2.00
18+80.00	0.86	-2.00
19+00.00	1.77	-2.00
19+05.00	2.00	-2.00
19+20.00	2.68	-2.68
19+40.00	3.59	-3.59
19+49.00	4.00	-4.00
21+87.00	4.00	-4.00
22+00.00	3.41	-3.41
22+20.00	2.50	-2.50
22+40.00	1.59	-1.59
22+42.00	1.50	-1.50
22+40.00	1.59	-1.50
22+60.00	0.68	-1.50
22+80.00	-0.23	-1.50
23+00.00	-1.14	-1.50
23+08.00	-1.50	-1.50
23+20.00	-1.50	-1.50

**SUPERELEVATION: CURVE PR.TR109-2**

Station	LEFT Cross Slope (%)	RIGHT Cross Slope (%)
28+00.00	-2.00	-2.00
28+07.00	-2.00	-2.00
28+20.00	-2.00	-1.41
28+40.00	-2.00	-0.50
28+60.00	-2.00	0.41
28+80.00	-2.00	1.32
28+95.00	-2.00	2.00
29+00.00	-2.23	2.23
29+20.00	-3.14	3.14
29+39.00	-4.00	4.00
32+73.00	-4.00	4.00
32+80.00	-3.68	3.68
33+00.00	-2.77	2.77
33+17.00	-2.00	2.00
33+20.00	-2.00	1.86
33+40.00	-2.00	0.95
33+60.00	-2.00	0.05
33+80.00	-2.00	-0.86
34+00.00	-2.00	-1.77
34+05.00	-2.00	-2.00
34+20.00	-2.00	-2.00



**PROPOSED TYPICAL SECTIONS NOTES:**

SEE PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS OF PROPOSED GUARDRAIL.

SEE PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS OF PROPOSED DITCHES.

THE FRONT SLOPES FROM LEFT STA 17+50.00 TO STA 19+40.00 AND FROM LEFT STA 21+00.00 TO STA 23+40.00 SHALL BE TIED INTO THE EXISTING TOP OF BANK OF THE LARGE DITCH LOCATED ON THE NORTH SIDE OF THE ROADWAY.

THE FRONT SLOPES FROM STA 27+40.00 TO STA 29+40.00 SHALL BE 1V:4H.

THE ROADWAY CROSS-SLOPE SHALL BE -1.5% FROM STA 22+42 RT TO STA 26+12 RT.

THE ROADWAY CROSS-SLOPE SHALL BE -1.5% FROM STA 23+08 LT TO STA 26+12 LT.

PROPOSED STRUCTURE OMISSION FROM STA 23+40.00 TO STA 25+80.00.

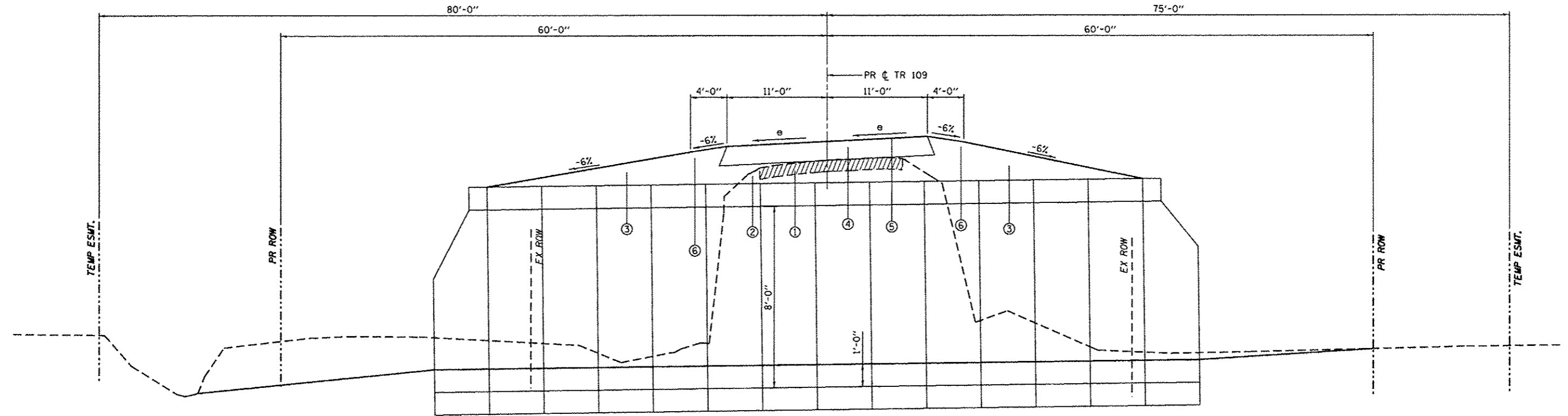
**PROPOSED TYPICAL TANGENT SECTION**

STA 23+08.00 TO STA 23+40.00  
STA 25+80.00 TO STA 27+95.04

**CROSS-SLOPE TRANSITION, EAST SIDE OF BRIDGE**

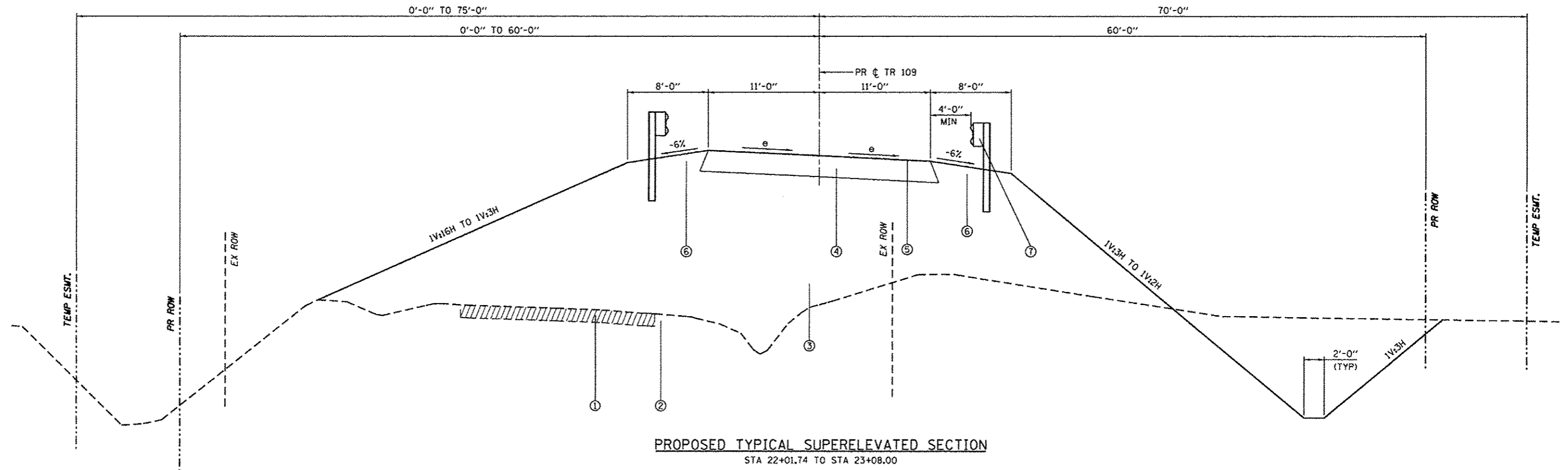
Station	CROSS-SLOPE (%)	
	LEFT	RIGHT
26+00.00	-1.50	-1.50
26+12.00	-1.50	-1.50
26+20.00	-1.86	-1.86
26+23.00	-2.00	-2.00
26+40.00	-2.00	-2.00

- LEGEND**
- ① EX OIL AND CHIP SURFACE WITH AGGREGATE BASE, 6" (±)
  - ② EX EARTH SHOULDER
  - ③ EMBANKMENT
  - ④ AGGREGATE BASE COURSE, TYPE A 8"
  - ⑤ BITUMINOUS SURFACE TREATMENT (A-3)
  - ⑥ EARTH SHOULDERS
  - ⑦ GUARDRAIL & TRAFFIC BARRIER TERMINALS



**PROPOSED TYPICAL BOX CULVERT SECTION**

STA 28+33.00 TO STA 28+47.00



PROPOSED TYPICAL SUPERELEVATED SECTION  
STA 22+01.74 TO STA 23+08.00

PROPOSED TYPICAL SECTIONS NOTES:

SEE PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS OF PROPOSED GUARDRAIL.

SEE PLAN AND PROFILE SHEETS FOR EXACT LOCATIONS OF PROPOSED DITCHES.

THE FRONT SLOPES FROM LEFT STA 17+50.00 TO STA 19+40.00 AND FROM LEFT STA 21+00.00 TO STA 23+40.00 SHALL BE TIED INTO THE EXISTING TOP OF BANK OF THE LARGE DITCH LOCATED ON THE NORTH SIDE OF THE ROADWAY.

THE FRONT SLOPES FROM STA 27+40.00 TO STA 29+40.00 SHALL BE 1V:4H.

THE ROADWAY CROSS-SLOPE SHALL BE -1.5% FROM STA 22+42 RT TO STA 26+12 RT.

THE ROADWAY CROSS-SLOPE SHALL BE -1.5% FROM STA 23+08 LT TO STA 26+12 LT.

PROPOSED STRUCTURE OMISSION FROM STA 23+40.00 TO STA 25+80.00.

LEGEND

- ① EX OIL AND CHIP SURFACE WITH AGGREGATE BASE, 6" (±)
- ② EX EARTH SHOULDER
- ③ EMBANKMENT
- ④ AGGREGATE BASE COURSE, TYPE A 8"
- ⑤ BITUMINOUS SURFACE TREATMENT (A-3)
- ⑥ EARTH SHOULDERS
- ⑦ GUARDRAIL & TRAFFIC BARRIER TERMINALS

FILE NAME	USER NAME	DESIGNED	REVISED
H:\6848 CC Old State Rd Bridge\CADD Sheets\6848-SHT-TYPICAL.dgn	kachwanjohn	DRAWN	REVISED
Default	PLOT SCALE = 28.8000' / in.	CHECKED	REVISED
	PLOT DATE = 3/16/2017	DATE	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TYPICAL ROADWAY SECTIONS

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
109	12-01114-00-BR	CLINTON	75	7
CONTRACT NO. 97647			ILLINOIS FED. AID PROJECT	

**EARTHWORK SCHEDULE**

LOCATION	A	B	C	D	E = C - D
	CHANNEL EXCAVATION	EARTH EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE/LOSS	REQUIRED FILL	BALANCE: WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD	CU YD	CU YD	CU YD
STA 17+50.00 TO STA 23+39.96 (WEST ABUTMENT)		1,128.6	846.5	3,234.0	-2,387.6
STA 23+39.96 (WEST ABUTMENT) TO STA 25+80.04 (EAST ABUTMENT)	2,666.0		1,499.6	175.6	1,324.0
STA 25+80.04 (EAST ABUTMENT) TO STA 35+00.00		1,920.1	1,440.1	2,590.3	-1,150.2
TOTAL	2,666.0	3,048.7	3,786.2	5,999.9	-2,213.8
USE	2,666	3,050	3,790	6,000	2,210

NOTES:  
 ESTIMATED EARTHWORK QUANTITIES WERE CALCULATED FROM CROSS-SECTION END AREAS.  
 SCHEDULE ASSUMES A 25% SHRINKAGE/LOSS FACTOR. (CHANNEL EXCAVATION ADJUSTED FOR 25% SHRINKAGE/LOSS AND 25% WASTE)  
 COLUMN "A" - ESTIMATED VOLUME OF CUT MATERIAL FROM BETWEEN THE ABUTMENTS (CHANNEL EXCAVATION)  
 COLUMN "B" - ESTIMATED VOLUME OF CUT MATERIAL OUTSIDE THE ABUTMENTS (EARTH EXCAVATION)  
 COLUMN "C" - ESTIMATED VOLUME OF CUT MATERIAL ADJUSTED FOR WASTE & SHRINKAGE/LOSS THAT IS SUITABLE FOR EMBANKMENT (NOT A PAY ITEM)  
 COLUMN "D" - ESTIMATED VOLUME OF FILL MATERIAL REQUIRED (NOT A PAY ITEM)  
 COLUMN "E" - ESTIMATED EARTHWORK MATERIAL BALANCE (FURNISHED EXCAVATION)

**TREE REMOVAL SCHEDULE**

LOCATION	TREE REMOVAL, ACRES	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)
	ACRE	UNIT	UNIT
	STA 28+89.30 TO STA 29+56.42	33.54' LT 34.69' LT	
STA 17+50.00 TO STA 21+20.00	LT	0.21	
STA 29+73.00 TO STA 32+59.00	LT	0.14	
STA 20+56.00 TO STA 23+87.00	RT	0.29	
STA 26+29.00 TO STA 29+60.00	RT	0.28	
STA 29+70.00 TO STA 34+60.00	RT	0.09	
TOTAL	1.00	15	24
USE	1.1	15	24

**EROSION CONTROL AND SEEDING SCHEDULE**

LOCATION	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	AGGREGATE DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION
	ACRE	POUND	POUND	POUND	ACRE	POUND	FOOT	TON	FOOT	EACH
STA 17+50.00 LT TO STA 19+36.00 LT									206.4	
STA 17+50.00 LT TO STA 23+39.96 LT	0.48	43.4	43.4	43.4	0.48	48				
STA 17+50.00 RT TO STA 23+39.96 RT	0.33	29.6	29.6	29.6	0.33	33	40			1
STA 21+00.00 LT TO STA 23+51.00 LT								15.6	262.2	
STA 21+00.00 LT								15.6		
STA 23+58.95 LT										
STA 25+90.00 LT TO STA 26+60.00 LT									75.6	
STA 25+71.00 RT TO STA 26+60.00 RT									129.8	
STA 25+80.04 LT TO STA 35+00.00 LT	0.61	55.2	55.2	55.2	0.61	61	150			2
STA 25+80.04 RT TO STA 35+00.00 RT	0.44	39.3	39.3	39.3	0.44	44	140			2
STA 27+80.00 RT TO STA 28+60.00 RT									92.5	
TOTAL	1.86	167.6	167.6	167.6	1.86	186	330	31.2	766.5	5
USE	1.9	171	171	171	1.9	190	330	32	767	5

**ENTRANCE SCHEDULE**

TYPE	LOCATION	AGGREGATE SURFACE COURSE, TYPE A 8"
		SQ YD
FE	STA 18+92.00 RT	56.4
PE	STA 26+28.77 RT	146.2
PE	STA 26+36.81 LT	109.0
PE	STA 29+63.00 RT	106.8
PE	STA 29+67.00 LT	113.4
PE	STA 34+36.00 LT	80.3
TOTAL		612.1
USE		613

**CULVERTS SCHEDULE**

LOCATION	PIPE CULVERT REMOVAL	REMOVAL OF EXISTING STRUCTURES NO. 2	PIPE CULVERTS, CLASS A, TYPE 1 15"	PIPE CULVERTS, CLASS A, TYPE 1 24"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	TRENCH BACKFILL	POROUS GRANULAR BACKFILL	PRECAST CONCRETE BOX CULVERT 12' X 8'	BOX CULVERT END SECTIONS
	FOOT	EACH	FOOT	FOOT	EACH	EACH	CU YD	CU YD	FOOT	EACH
ENTRANCE										
18+92 RT STA 18+74.12 21.18' 436.53 TO STA 19+09.87 22.28' 436.36	29.9		24.0		2		1.9			
29+63 RT STA 29+34.36 35.69' 436.85 TO STA 29+87.72 25.09' 438.59	23.9			44.0		2	2.3			
29+67 LT STA 29+36.49 39.27' 435.22 TO STA 29+92.53 26.44' 437.14	27.3			44.0		2	7.2			
34+36 LT STA 34+18.13 22.87' 444.08 TO STA 34+53.88 21.80' 444.75	23.4		24.0		2		0.8			
ACROSS-ROAD (BOX)										
28+40 STA 28+40.00 43.07' LT 431.59 TO STA 28+40.00 40.93' RT 432.01		1					31.2	73.0	72.0	2
TOTAL	104.5	1	48.0	88.0	4	4	43.5	73.0	72.0	2
USE	105	1	48	88	4	4	44	74	72	2

NOTES:  
 THE TRENCH BACKFILL SHOWN FOR THE BOX CULVERT IS THE ESTIMATED AMOUNT OF MATERIAL NECESSARY TO FILL THE VOID LEFT BY REMOVING THE EXISTING BOX THAT IS OUTSIDE THE POROUS GRANULAR BACKFILL SHOWN BY THE DETAIL CONTAINED IN THE PLANS.



**PAVING SCHEDULE**

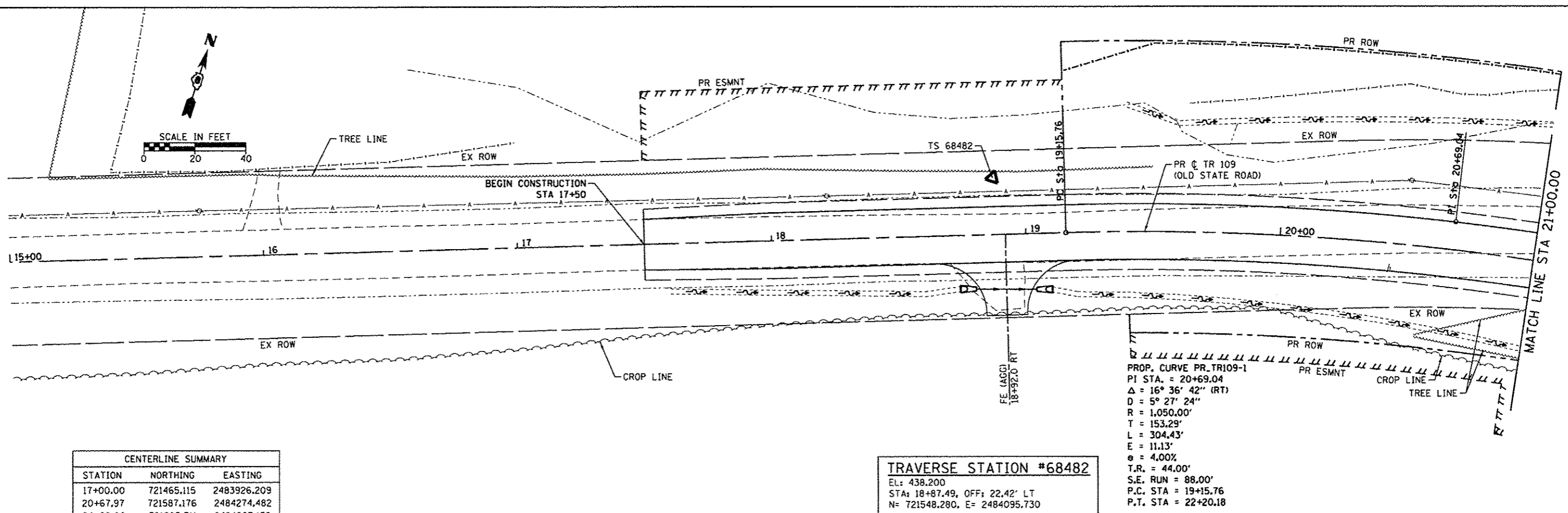
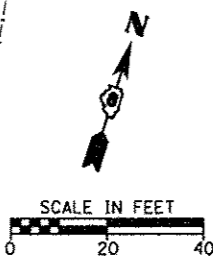
LOCATION	AGGREGATE BASE COURSE, TYPE A 8"	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	COVER COAT AGGREGATE	SEAL COAT AGGREGATE
	SO YD	TON	TON	TON	TON
STA 17+50.00 TO STA 23+39.96	1436.7	1.6	4.5	35.9	18.0
BRIDGE OMISSION					
STA 25+80.04 TO STA 35+00.00	2239.7	2.6	7.0	56.0	28.0
<b>TOTAL</b>	<b>3676.4</b>	<b>4.2</b>	<b>11.5</b>	<b>91.9</b>	<b>46.0</b>
<b>USE</b>	<b>3677</b>	<b>4.5</b>	<b>11.5</b>	<b>92</b>	<b>46</b>

**FENCE SCHEDULE**

LOCATION	FENCE REMOVAL	WOVEN WIRE FENCE, 4'
	FOOT	FOOT
STA 19+63.60 50.62' LT TO STA 21+12.90 70.55' LT	159.8	
STA 26+77.37 31.20' RT TO STA 27+00.65 36.31' RT	23.8	
STA 32+52.83 28.54' RT TO STA 33+03.96 24.02' RT	52.6	
STA 29+97.50 42.94' LT TO STA 32+20.13 26.11' LT	216.2	
STA 34+01.37 22.90' RT TO STA 34+20.62 22.39' RT	19.3	
STA 19+16.47 63.67' LT TO STA 19+50.00 74.00' LT		37.2
STA 19+50.00 74.00' LT TO STA 21+00.00 74.00' LT		160.6
STA 21+00.00 74.00' LT TO STA 21+12.90 70.55' LT		14.2
<b>TOTAL</b>	<b>471.6</b>	<b>212.0</b>
<b>USE</b>	<b>472</b>	<b>212</b>

**GUARDRAIL SCHEDULE**

LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 6A (MODIFIED)	GUARDRAIL REFLECTORS, TYPE A	BARRIER WALL MARKERS, TYPE C	TRAFFIC BARRIER TERMINAL, TYPE 2	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	TERMINAL MARKER - DIRECT APPLIED
	EACH	EACH	EACH	EACH	EACH	EACH	FOOT	EACH
STA 22+38.97 16.00' RT TO STA 22+35.98 15.00' RT	1	1						1
STA 22+47.00 16.00' LT TO STA 23+44.02 15.00' LT	1	1						1
STA 25+75.98 15.00' RT TO STA 25+94.88 15.00' RT			1					
STA 25+94.88 15.00' RT TO STA 26+10.94 31.82' RT							37.50	
STA 26+10.94 31.82' RT TO STA 25+98.72 39.20' RT						1		
STA 25+84.02 15.00' LT TO STA 26+02.92 15.00' LT			1					
STA 26+02.92 15.00' LT TO STA 26+18.98 31.82' LT							37.50	
STA 26+18.98 31.82' LT TO STA 29+06.76 39.20' LT						1		
STA 26+46.77 16.00' RT TO STA 27+53.00 16.00' RT		2		1				2
STA 26+54.81 16.00' LT TO STA 27+61.04 16.00' LT		2		1				2
STA 22+38.97 16.00' RT TO STA 26+08.27 15.00' RT				2	4			
STA 22+47.00 16.00' LT TO STA 26+16.31 15.00' LT				2	4			
<b>TOTAL</b>	<b>2</b>	<b>6</b>	<b>2</b>	<b>6</b>	<b>8</b>	<b>2</b>	<b>75.00</b>	<b>6</b>
<b>USE</b>	<b>2</b>	<b>6</b>	<b>2</b>	<b>6</b>	<b>8</b>	<b>2</b>	<b>75.0</b>	<b>6</b>



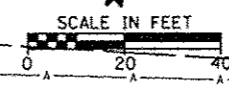
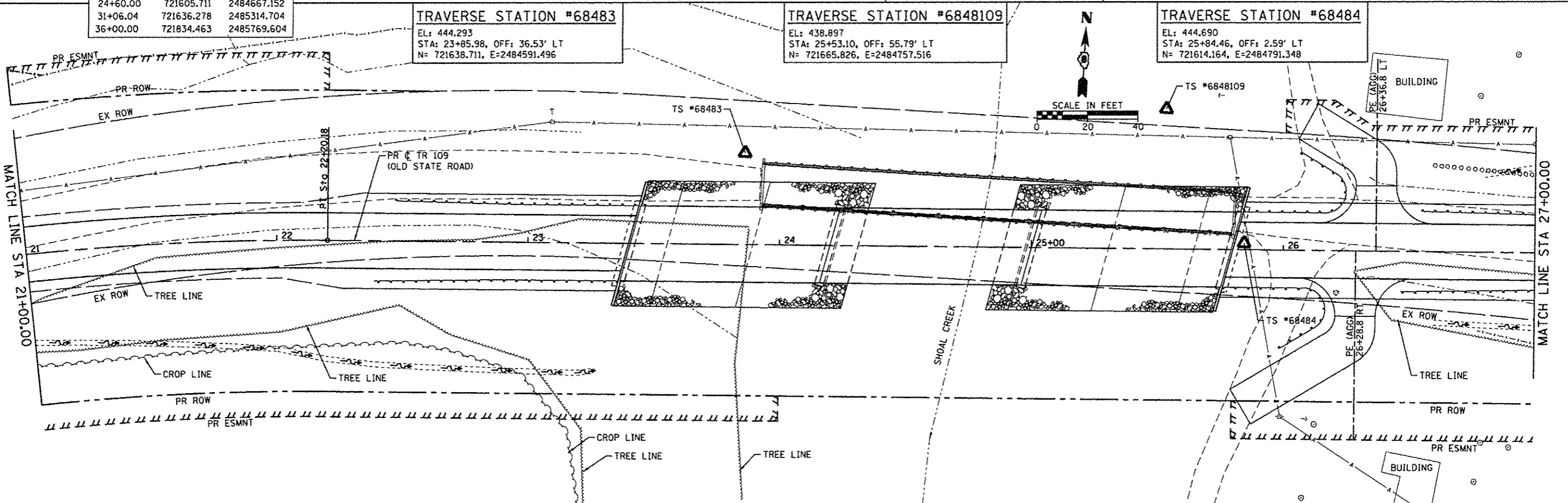
CENTERLINE SUMMARY		
STATION	NORTHING	EASTING
17+00.00	721465.115	2483926.209
20+67.97	721587.176	2484274.482
24+60.00	721605.711	2484667.152
31+06.04	721636.278	2485314.704
36+00.00	721834.463	2485769.604

**TRAVERSE STATION #68482**  
 EL: 438.200  
 STA: 18+87.49, OFF: 22.42' LT  
 N= 721548.280, E= 2484095.730

**TRAVERSE STATION #68483**  
 EL: 444.293  
 STA: 23+85.98, OFF: 36.53' LT  
 N= 721638.711, E=2484591.496

**TRAVERSE STATION #6848109**  
 EL: 438.897  
 STA: 25+53.10, OFF: 55.79' LT  
 N= 721665.826, E=2484757.516

**TRAVERSE STATION #68484**  
 EL: 444.690  
 STA: 25+84.46, OFF: 2.59' LT  
 N= 721614.164, E=2484791.348

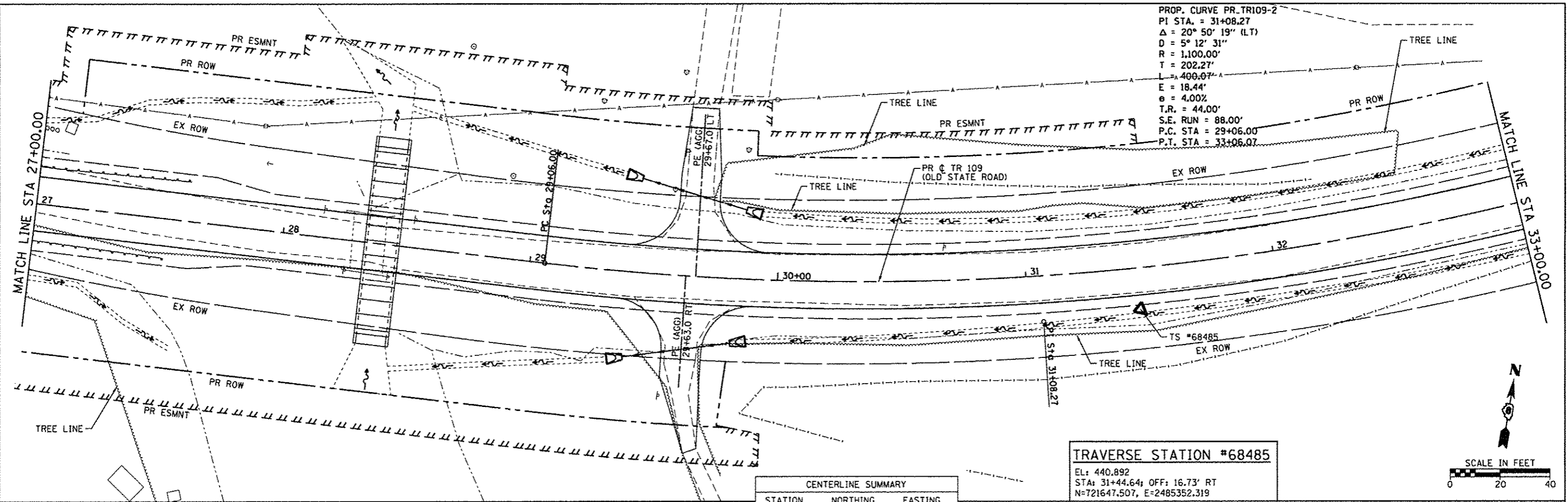


FILE NAME *	USER NAME * kschusterjohn	DESIGNED -	REVISED -
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Default	PLOT SCALE = 20.0000 / in.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2017	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

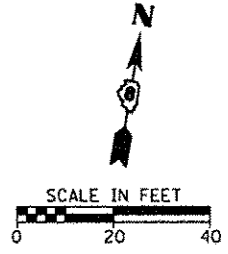
ALIGNMENT, TIES AND BENCHMARKS	
TR	SECTION
109	12-01114-00-BR
SCALE:	SHEET 1 OF 2 SHEETS
STA.	TO STA.

COUNTY	TOTAL SHEETS	SHEET NO.
CLINTON	75	10
CONTRACT NO. 97647		
ILLINOIS FED. AID PROJECT		



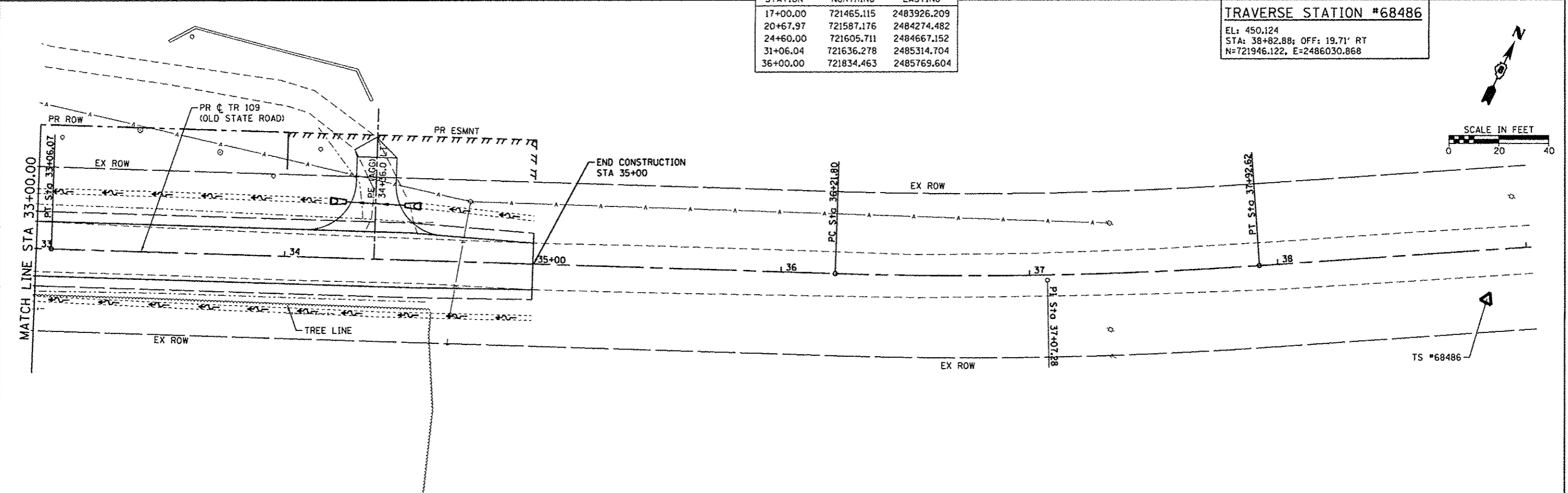
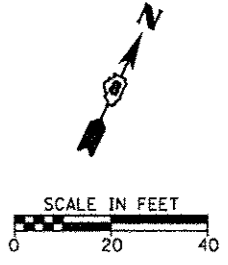
PROP. CURVE PR TR109-2  
 PI STA. = 31+08.27  
 $\Delta = 20^\circ 50' 19''$  (LT)  
 $D = 5^\circ 12' 31''$   
 $R = 1,100.00'$   
 $T = 202.27'$   
 $L = 400.07'$   
 $E = 18.44'$   
 $e = 4.00\%$   
 $T.R. = 44.00'$   
 $S.E. RUN = 88.00'$   
 $P.C. STA = 29+06.00$   
 $P.T. STA = 33+06.07$

**TRAVERSE STATION #68485**  
 EL: 440.892  
 STA: 31+44.64; OFF: 16.73' RT  
 N=721647.507, E=2485352.319



CENTERLINE SUMMARY		
STATION	NORTHING	EASTING
17+00.00	721465.115	2483926.209
20+67.97	721587.176	2484274.482
24+60.00	721605.711	2484667.152
31+06.04	721636.278	2485314.704
36+00.00	721834.463	2485769.604

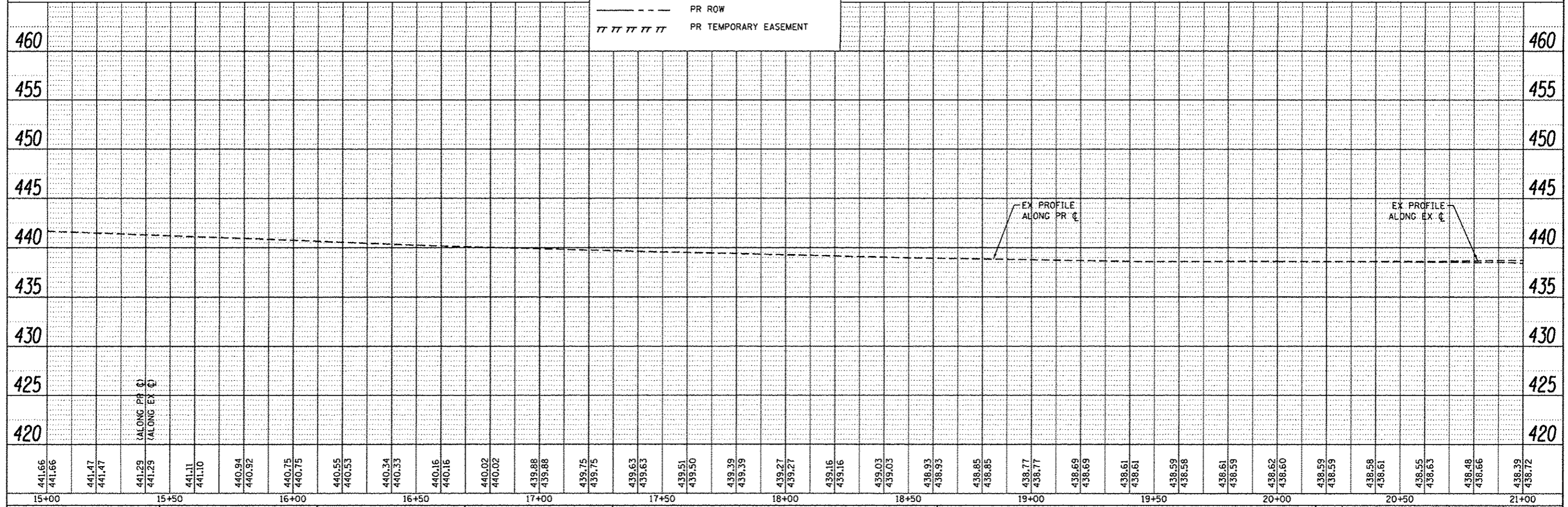
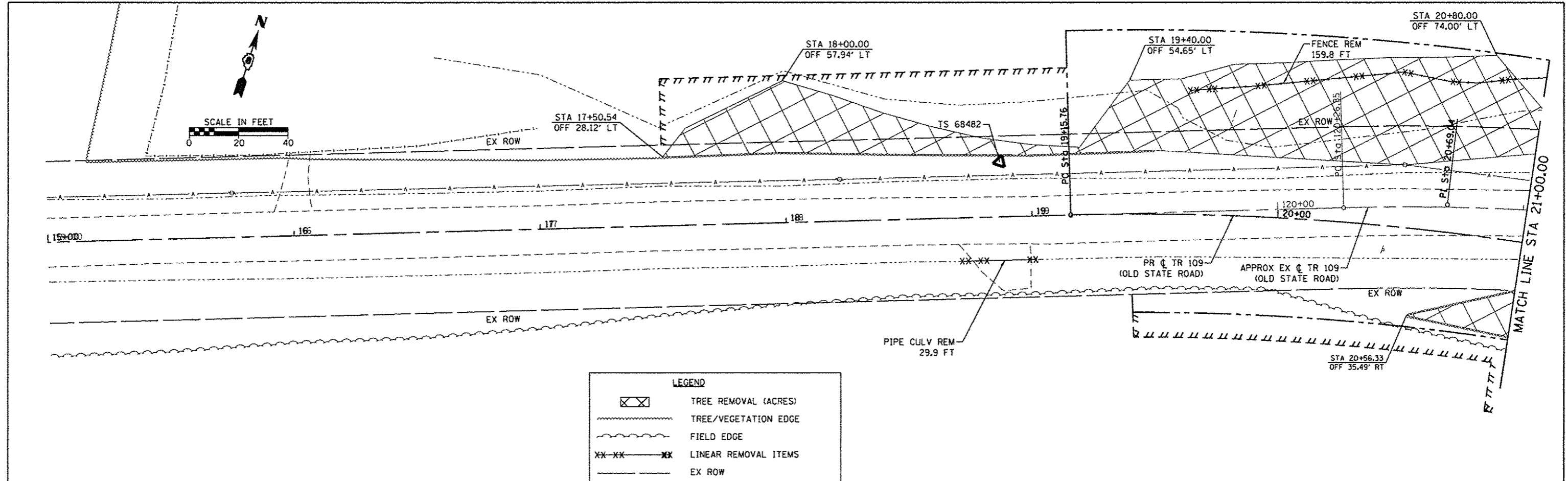
**TRAVERSE STATION #68486**  
 EL: 450.124  
 STA: 38+82.88; OFF: 19.71' RT  
 N=721946.122, E=2486030.868



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PLOT SCALE = 20.0000" / 1"	PLOT DATE = 3/16/2017	DRAWN -	REVISED -				109	12-01114-00-BR	CLINTON	75	11
Default		CHECKED -	REVISED -		SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.		CONTRACT NO. 97647				
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT						

PLAN	DATE
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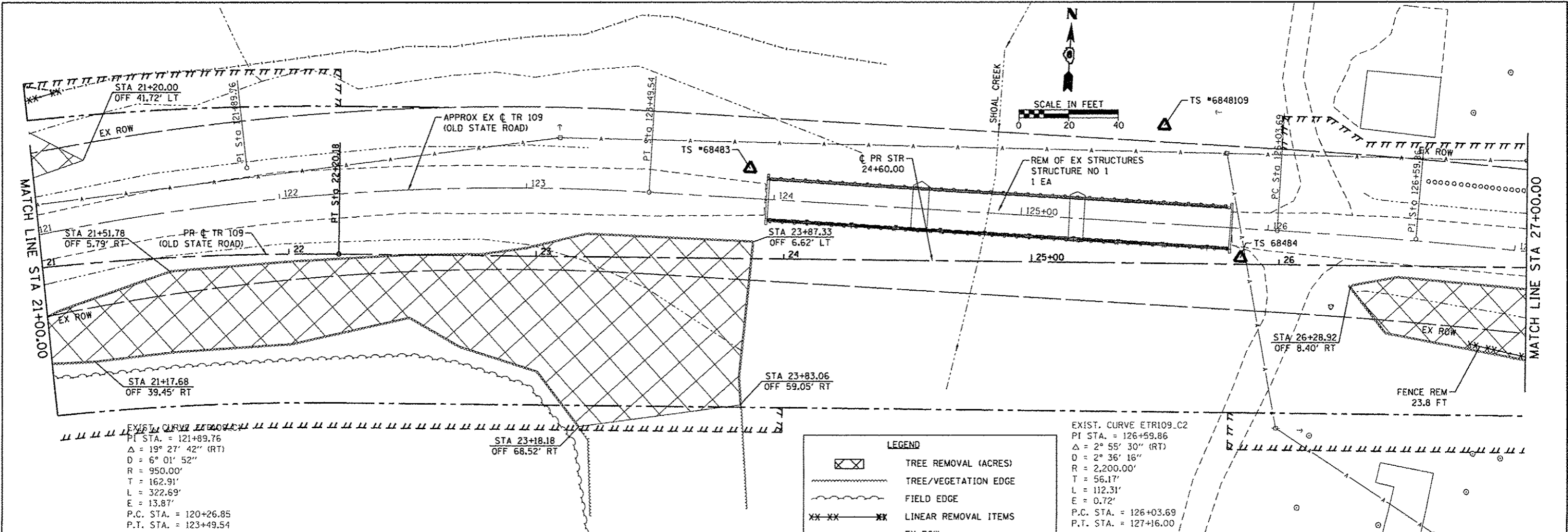
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FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				PLAN AND PROFILE EXISTING CONDITIONS AND REMOVALS				TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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	PLOT DATE = 3/16/2017	DATE	REVISED									SCALE:		SHEET 1 OF 4 SHEETS		STA.	TO STA.
ILLINOIS FED. AID PROJECT																	

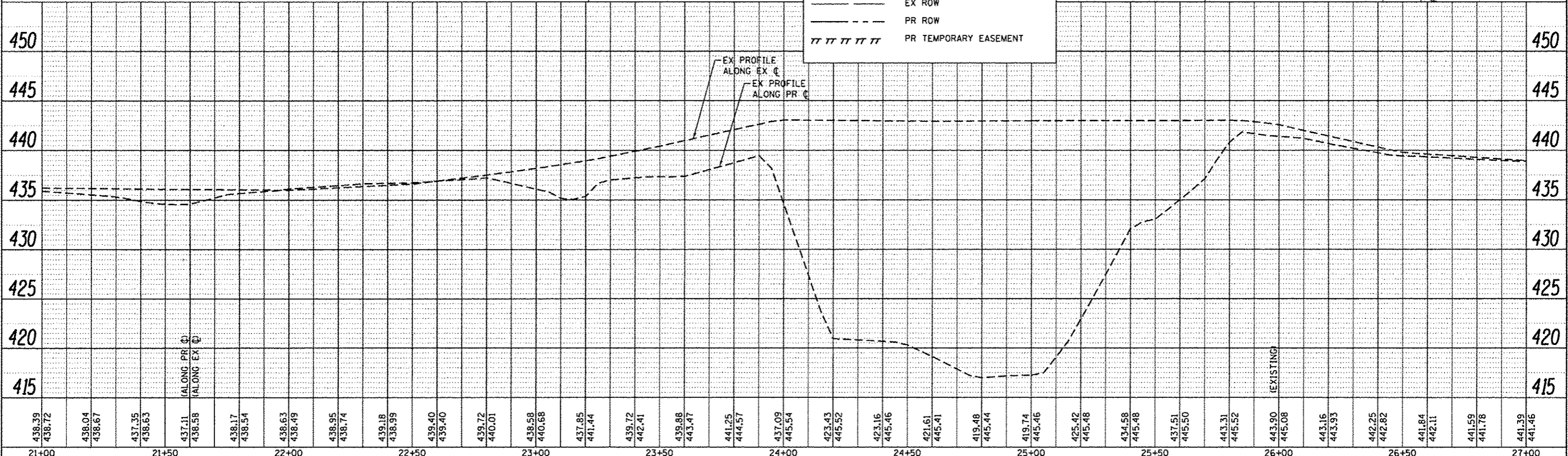
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**LEGEND**

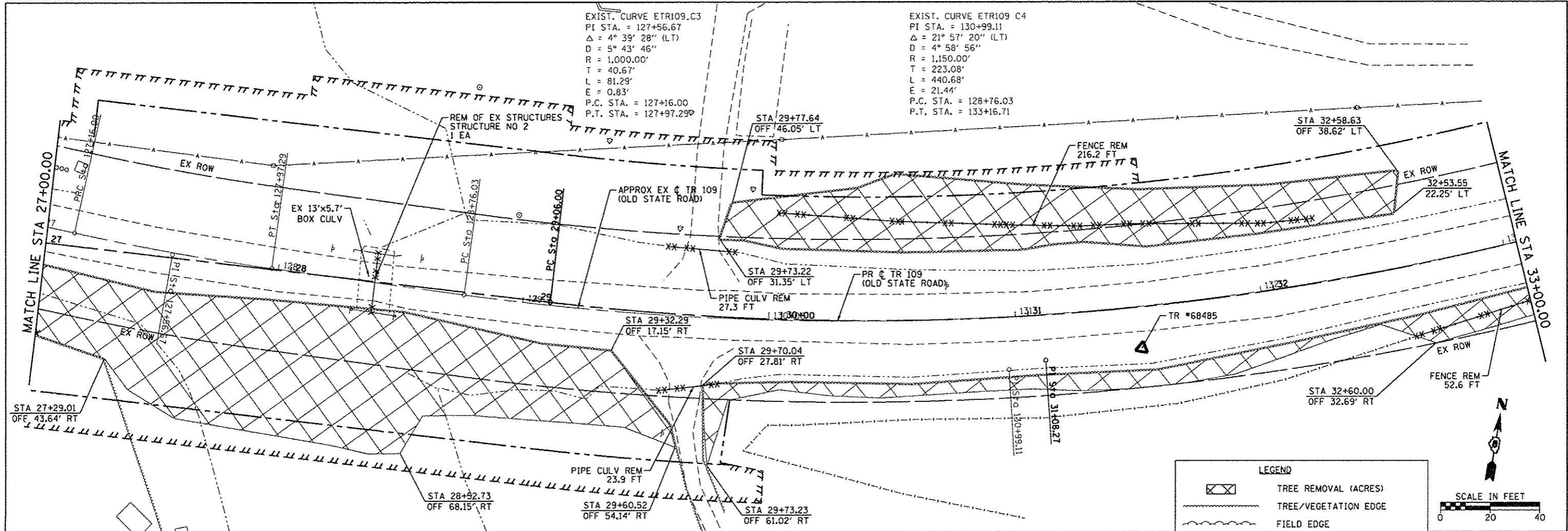
- TREE REMOVAL (ACRES)
- TREE/VEGETATION EDGE
- FIELD EDGE
- LINEAR REMOVAL ITEMS
- EX ROW
- PR ROW
- PR TEMPORARY EASEMENT



438.39 438.72	438.04 438.67	437.35 438.63	437.11 436.58	438.17 438.54	438.63 438.49	438.95 438.74	439.18 438.99	439.40 439.40	439.72 440.01	438.58 440.68	437.85 441.44	439.72 442.41	439.88 443.47	441.25 444.57	437.09 445.54	423.43 445.52	423.16 445.46	421.61 445.41	419.48 445.44	419.74 445.46	425.42 445.48	434.68 445.48	437.51 445.50	443.31 445.52	443.90 445.08	443.16 443.93	442.25 442.82	441.84 442.11	441.59 441.78	441.39 441.46
21+00	21+50	22+00	22+50	23+00	23+50	24+00	24+50	25+00	25+50	26+00	26+50	27+00																		
FILE NAME =			USER NAME = kschwierjohn			DESIGNED -			REVISED -			<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>			<b>PLAN AND PROFILE EXISTING CONDITIONS AND REMOVALS</b>						TR		SECTION		COUNTY		TOTAL SHEETS		SHEET NO.	
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Default			PLOT SCALE = 28.8000" / in.			CHECKED -			REVISED -												SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.						CONTRACT NO. 97647			
			PLOT DATE = 3/16/2017			DATE -			REVISED -																		ILLINOIS FED. AIG PROJECT			

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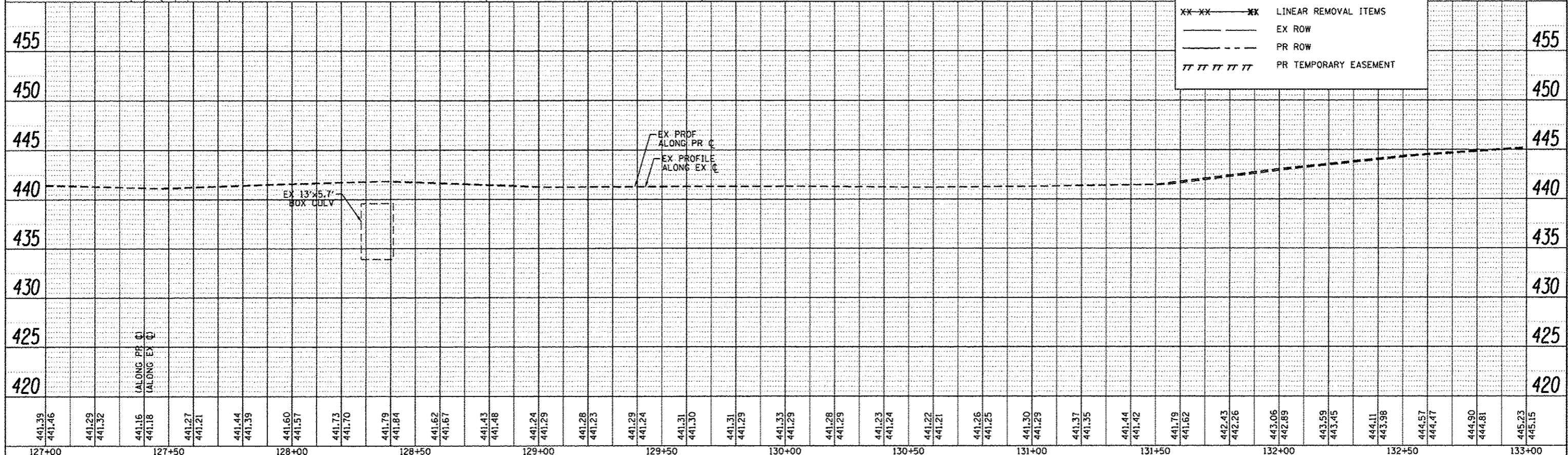
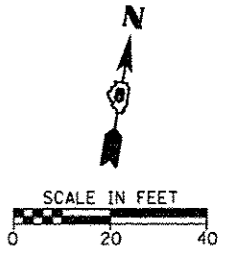


EXIST. CURVE ETRI09 C3  
 PI STA. = 127+56.67  
 $\Delta = 4^\circ 39' 28''$  (LT)  
 $D = 5^\circ 43' 46''$   
 $R = 1,000.00'$   
 $T = 40.67'$   
 $L = 81.29'$   
 $E = 0.83'$   
 P.C. STA. = 127+16.00  
 P.T. STA. = 127+97.29

EXIST. CURVE ETRI09 C4  
 PI STA. = 130+99.11  
 $\Delta = 21^\circ 57' 20''$  (LT)  
 $D = 4^\circ 58' 56''$   
 $R = 1,150.00'$   
 $T = 223.08'$   
 $L = 440.68'$   
 $E = 21.44'$   
 P.C. STA. = 128+76.03  
 P.T. STA. = 133+16.71

**LEGEND**

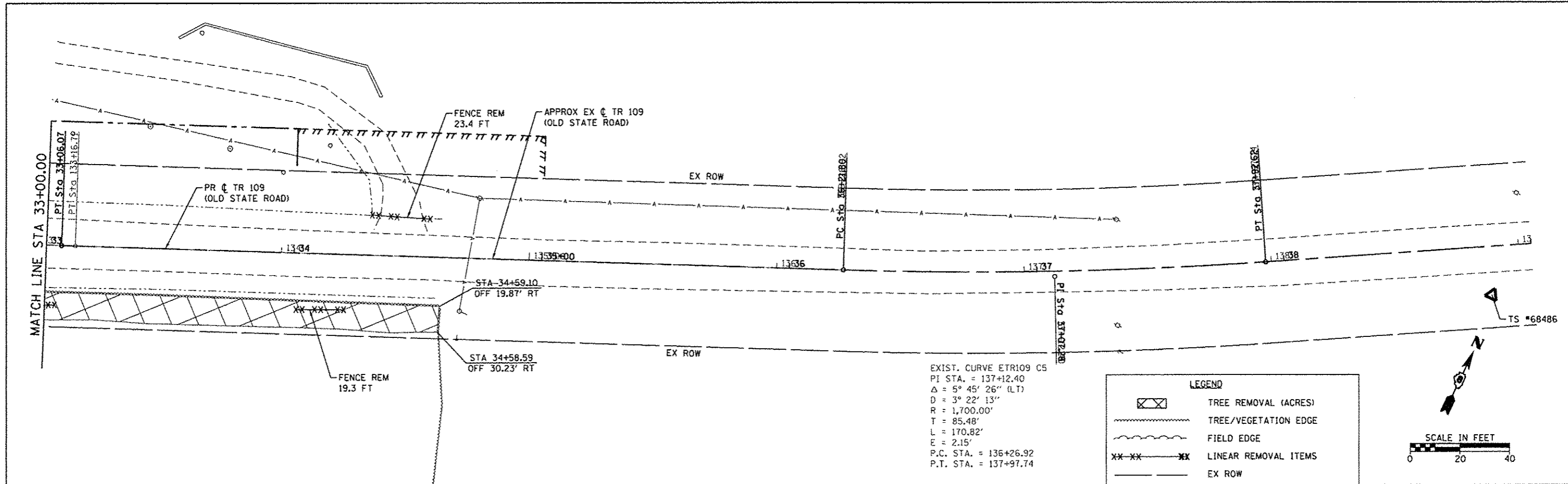
- TREE REMOVAL (ACRES)
- TREE/VEGETATION EDGE
- FIELD EDGE
- LINEAR REMOVAL ITEMS
- EX ROW
- PR ROW
- PR TEMPORARY EASEMENT



FILE NAME	USER NAME	DESIGNED	REVISED	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE EXISTING CONDITIONS AND REMOVALS</b>		TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 20.0000' / in.	CHECKED	REVISED		SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.		CONTRACT NO. 97647		ILLINOIS FED. AID PROJECT		
	PLOT DATE = 3/16/2017	DATE	REVISED								

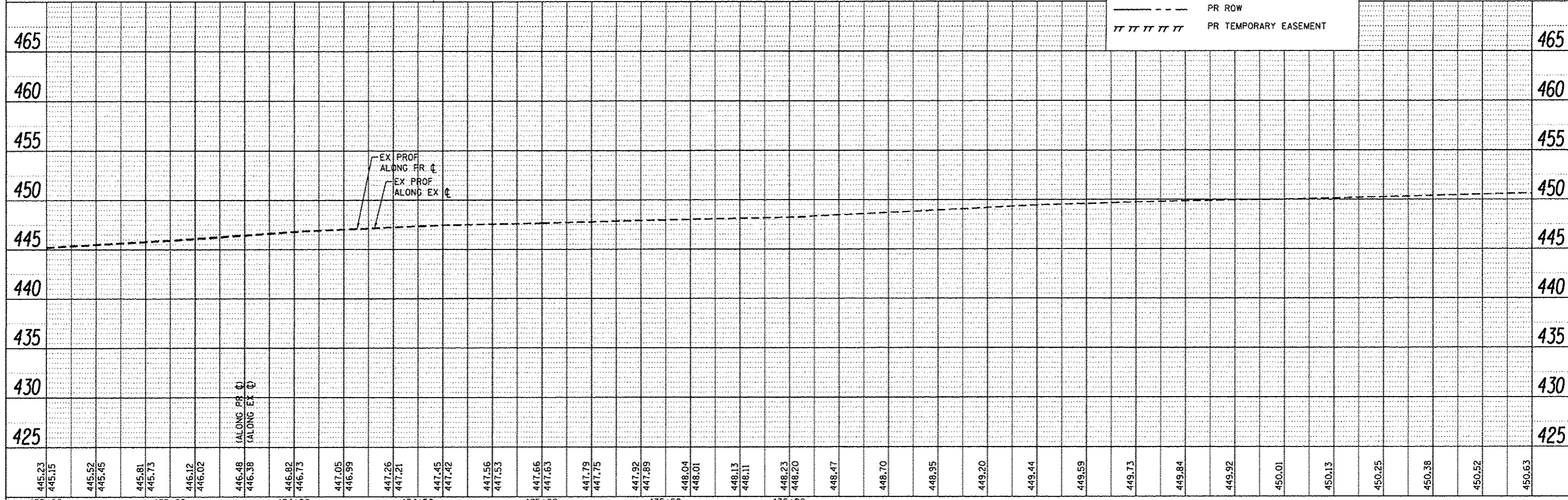
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NO.	
DATE	



EXIST. CURVE ETR109 C5  
 PI STA. = 137+12.40  
 $\Delta = 5^\circ 45' 26''$  (LT)  
 $D = 3^\circ 22' 13''$   
 $R = 1,700.00'$   
 $T = 85.48'$   
 $L = 170.82'$   
 $E = 2.15'$   
 P.C. STA. = 136+26.92  
 P.T. STA. = 137+97.74

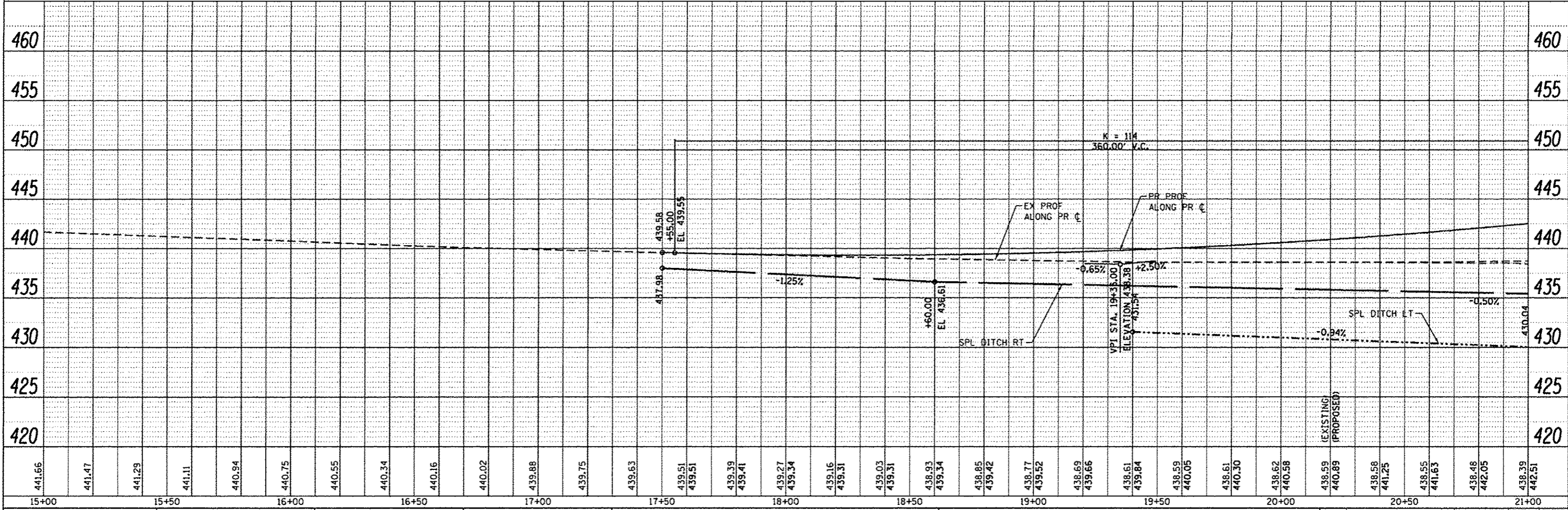
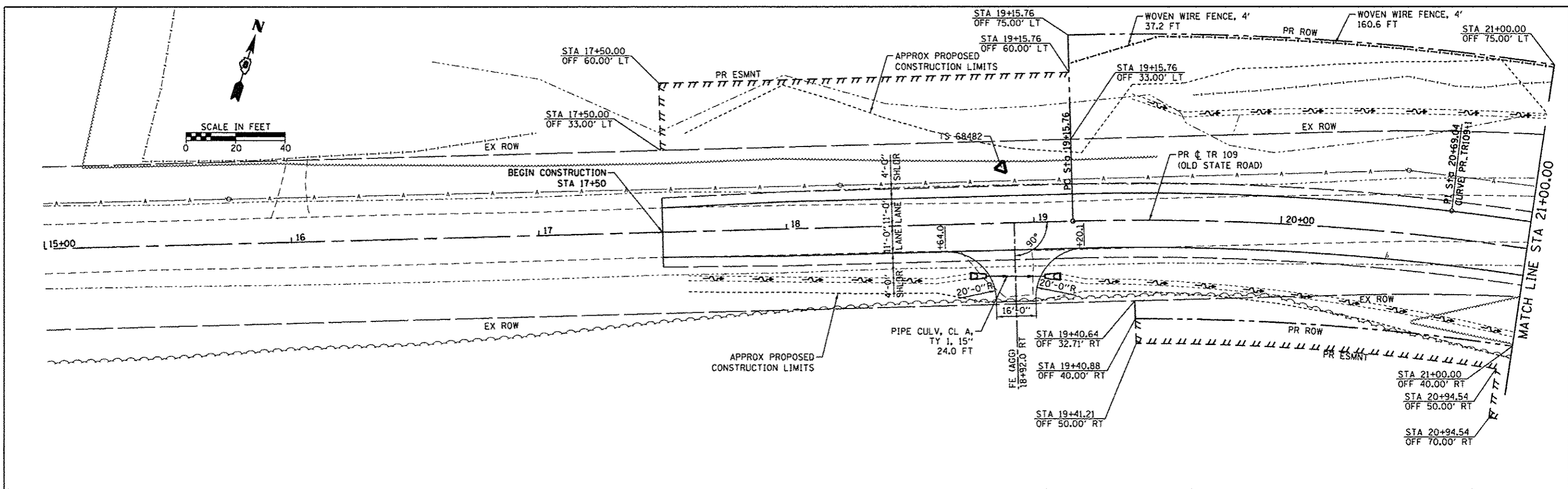
LEGEND	
	TREE REMOVAL (ACRES)
	TREE/VEGETATION EDGE
	FIELD EDGE
	LINEAR REMOVAL ITEMS
	EX ROW
	PR ROW
	PR TEMPORARY EASEMENT



FILE NAME: H:\6848 CC Old State Rd Bridge\CADD Sheets\6848-SHT-EX-PLNPRF_4.dgn	USER NAME: kachatorjohn	DESIGNED: -	REVISED: -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE EXISTING CONDITIONS AND REMOVALS</b>		TR: 109	SECTION: 12-01114-00-BR	COUNTY: CLINTON	TOTAL SHEETS: 75	SHEET NO.: 15	
PLOT SCALE: 20.0000' / in.	CHECKED: -	REVISED: -	REVISED: -		SCALE: SHEET 4 OF 4 SHEETS	STA. TO STA.	CONTRACT NO. 97647		ILLINOIS FED. AID PROJECT			
PLOT DATE: 3/16/2017	DATE: -	REVISED: -	REVISED: -									
Defaults												

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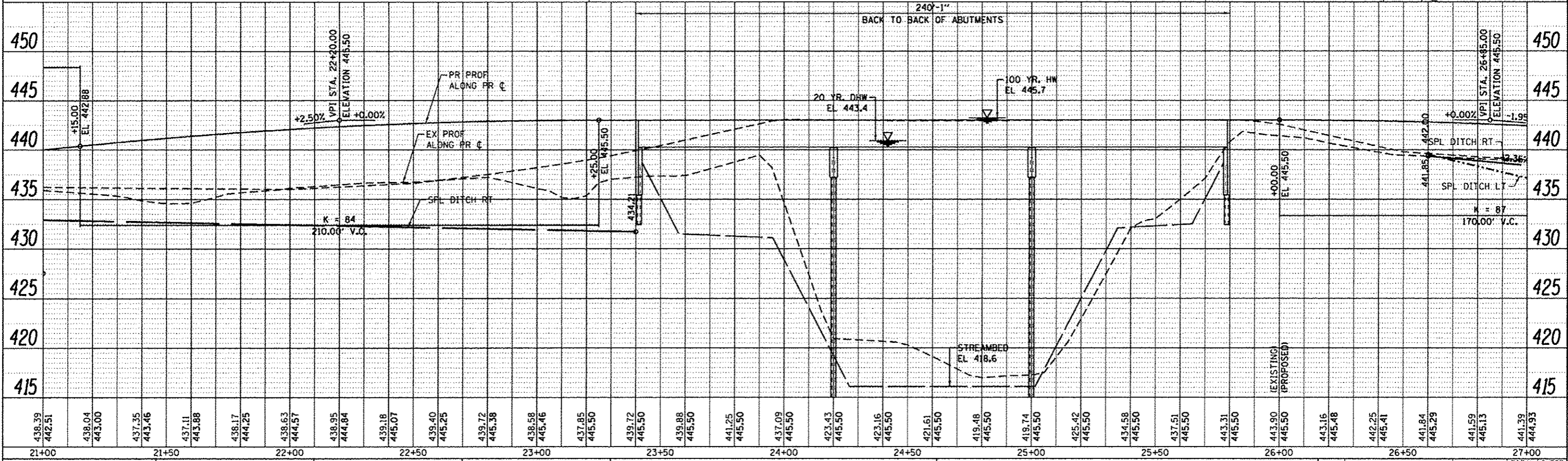
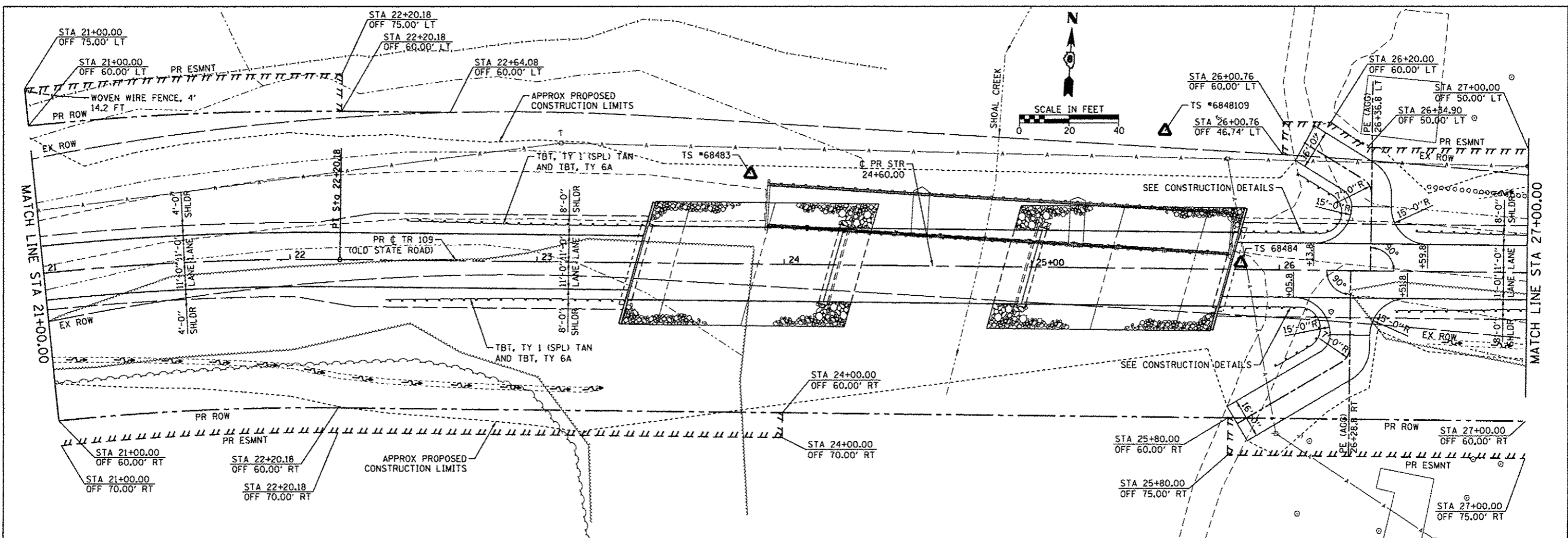


FILE NAME	USER NAME	DESIGNED	REVISED	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b> <b>PROPOSED IMPROVEMENTS</b>	TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLAN	DATE
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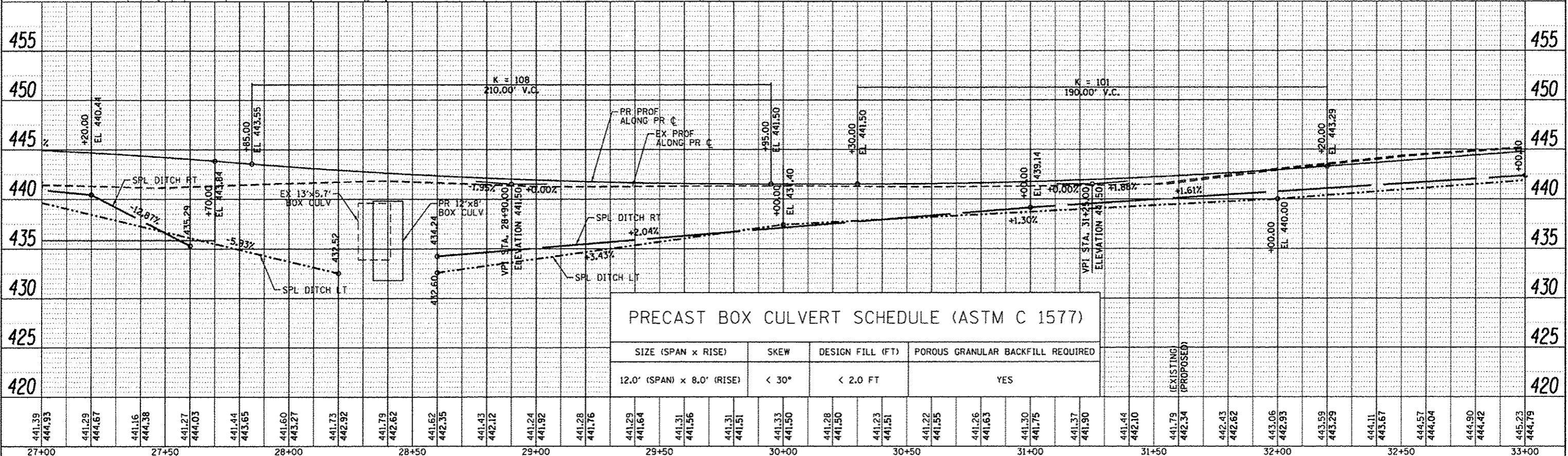
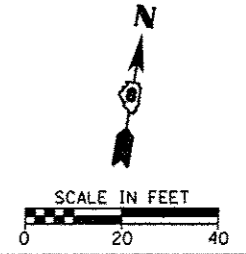
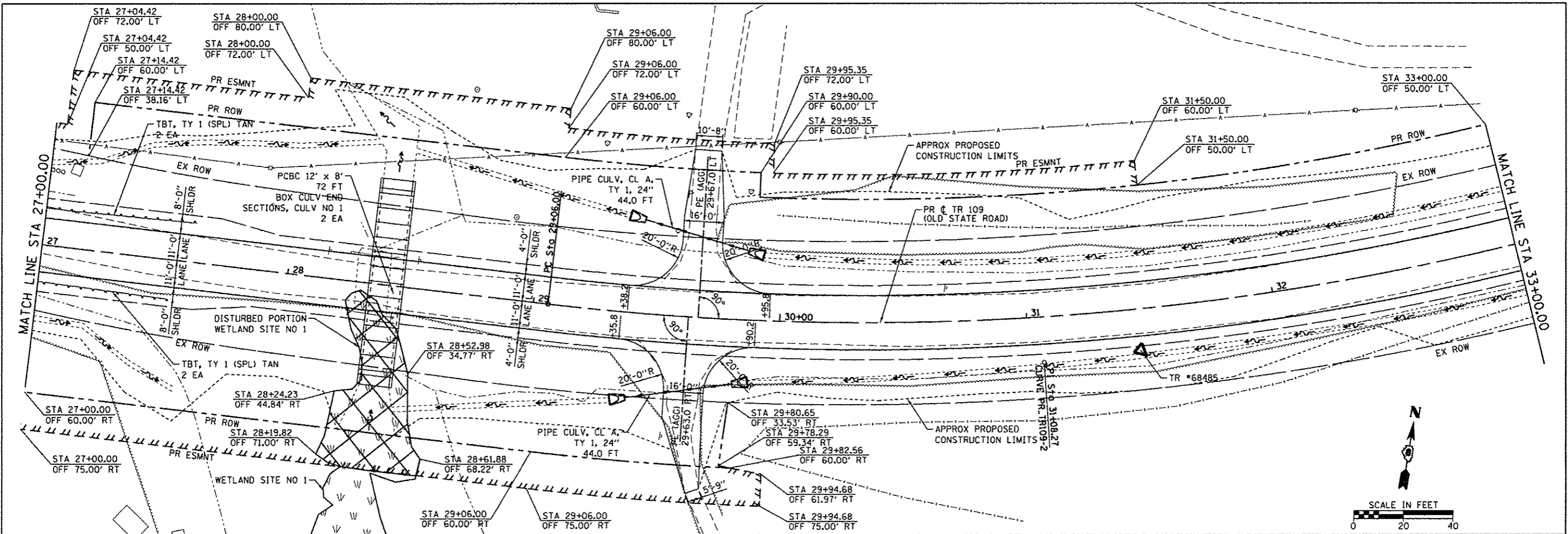
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REVISED	
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FILE NAME: H:\6848 CC Old State Rd Bridge\CAOD Shee	USER NAME: kschwiegerjohn	DESIGNED: -	REVISED: -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p> <p align="center"><b>PLAN AND PROFILE</b> <b>PROPOSED IMPROVEMENTS</b></p>	TR: 109	SECTION: 12-0114-00-BR	COUNTY: CLINTON	TOTAL SHEETS: 75	SHEET NO.: 17		
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	PLOT DATE = 3/16/2017	DATE: -	REVISED: -								

DATE	
BY	
PLAN	
NO.	
REVISIONS	
PROFIT	
ALIGNED	
CHECKED	
FILE NAME	

DATE	
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PROFILE	
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REVISIONS	
GRADES CHECKED	
STRUCTURE	
STATUS	
DATE	

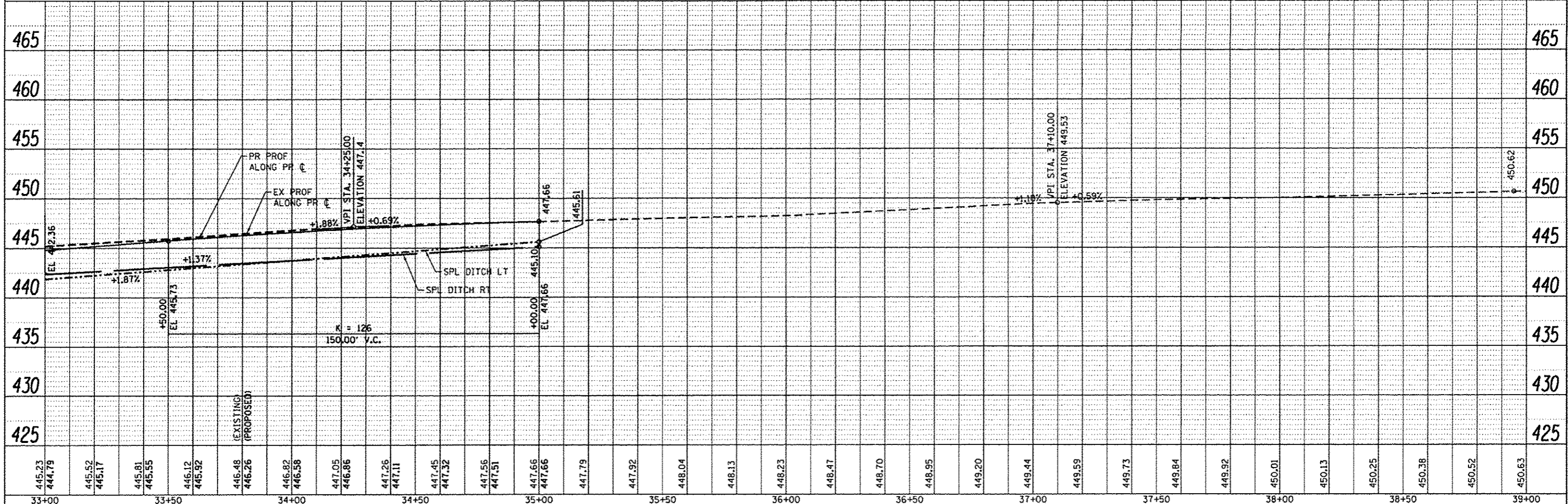
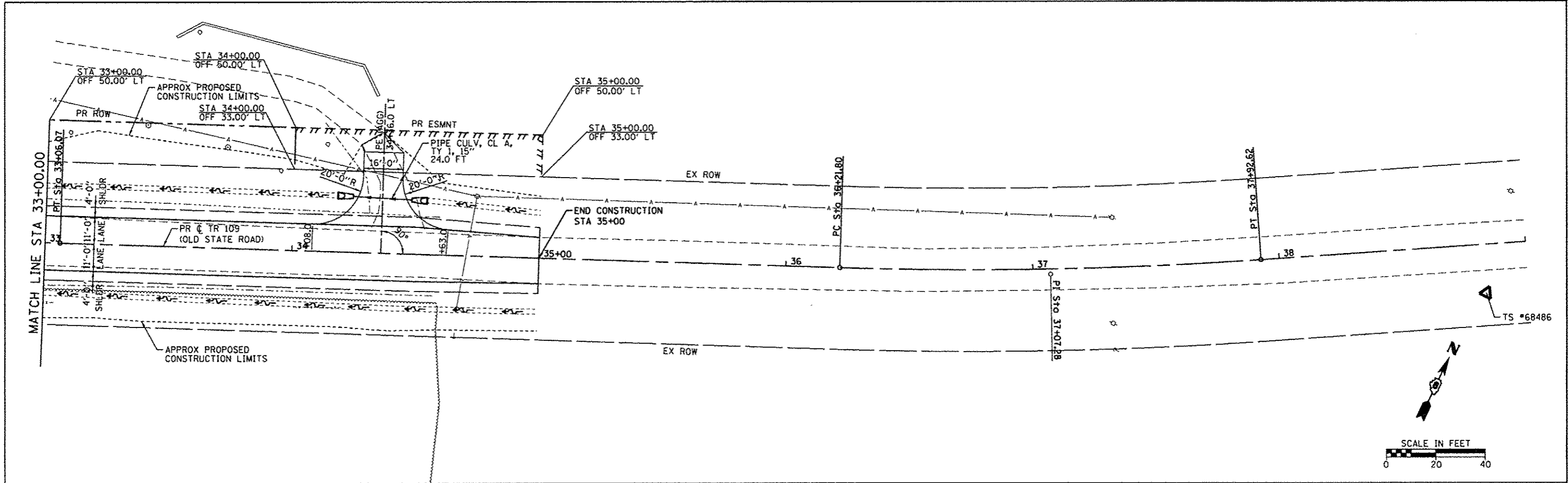


PRECAST BOX CULVERT SCHEDULE (ASTM C 1577)			
SIZE (SPAN x RISE)	SKIEW	DESIGN FILL (FT)	POROUS GRANULAR BACKFILL REQUIRED
12.0' (SPAN) x 8.0' (RISE)	< 30°	< 2.0 FT	YES

441.39	444.93	441.29	444.67	441.16	444.38	441.27	444.03	441.44	443.65	441.60	443.27	441.73	442.92	441.79	442.62	441.62	442.35	441.43	442.12	441.24	441.92	441.28	441.76	441.29	441.64	441.31	441.56	441.31	441.51	441.33	441.50	441.28	441.50	441.23	441.51	441.22	441.55	441.26	441.63	441.30	441.75	441.37	441.90	441.44	442.10	441.79	442.34	442.43	442.62	443.06	442.93	443.69	443.29	444.11	443.67	444.57	444.04	444.90	444.42	445.23	444.79
27+00	27+50	28+00	28+50	29+00	29+50	30+00	30+50	31+00	31+50	32+00	32+50	33+00	FILE NAME	USER NAME = kachwan-john	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION										PLAN AND PROFILE PROPOSED IMPROVEMENTS		TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																												
H:\6848 CC Old State Rd Bridge\CADD Sheets\6848-SHT-PLNPRF_3.dgn														109	12-0114-00-BR	CLINTON	75	18																																											
Default														PLOT SCALE = 28,8000" / 1" =		CHECKED -		REVISED -		DATE -		DATE -		SCALE:		SHEET 3 OF 4 SHEETS		STA. TO STA.		CONTRACT NO. 97647																															
														PLOT DATE = 3/16/2017														ILLINOIS FED. AID PROJECT																																	

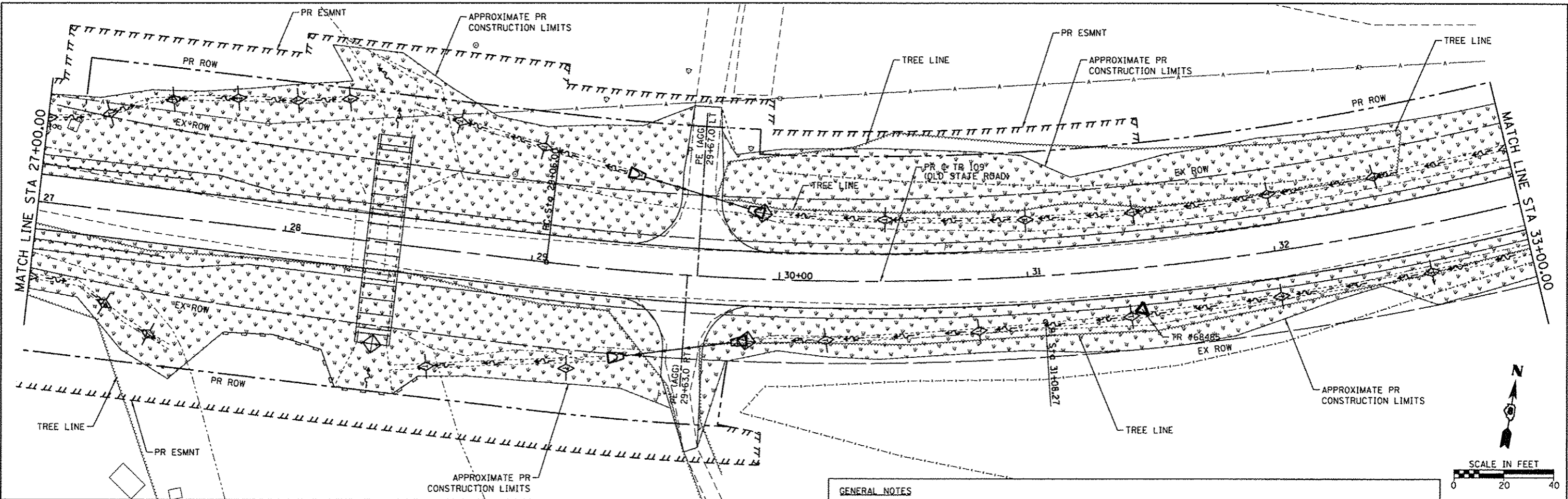
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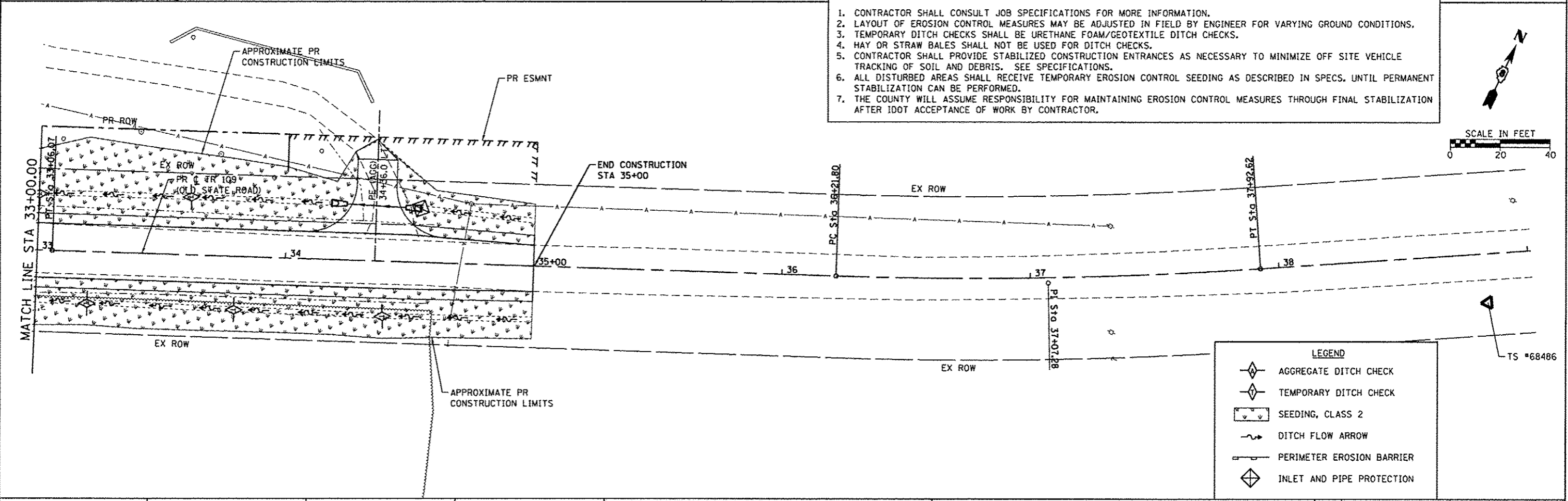
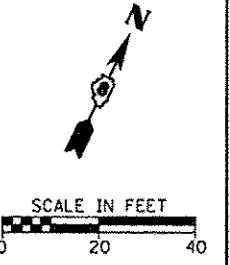
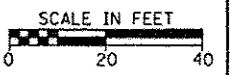


FILE NAME: H:\6848 CC Old State Rd Bridge\CADD Shee	USER NAME: kschwartz	DESIGNED: -	REVISED: -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p> <p align="center"><b>PLAN AND PROFILE</b> <b>PROPOSED IMPROVEMENTS</b></p>	TR: 109	SECTION: 12-01114-00-BR	COUNTY: CLINTON	TOTAL SHEETS: 75	SHEET NO.: 19
Default	PLOT SCALE: 20.0000' / in.	CHECKED: -	REVISED: -		SCALE: SHEET 4 OF 4 SHEETS	STA. TO STA.	CONTRACT NO. 97647		
	PLOT DATE: 3/16/2017	DATE: -	REVISED: -		ILLINOIS FED. AID PROJECT				





- GENERAL NOTES**
1. CONTRACTOR SHALL CONSULT JOB SPECIFICATIONS FOR MORE INFORMATION.
  2. LAYOUT OF EROSION CONTROL MEASURES MAY BE ADJUSTED IN FIELD BY ENGINEER FOR VARYING GROUND CONDITIONS.
  3. TEMPORARY DITCH CHECKS SHALL BE URETHANE FOAM/GEOTEXTILE DITCH CHECKS.
  4. HAY OR STRAW BALES SHALL NOT BE USED FOR DITCH CHECKS.
  5. CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION ENTRANCES AS NECESSARY TO MINIMIZE OFF SITE VEHICLE TRACKING OF SOIL AND DEBRIS. SEE SPECIFICATIONS.
  6. ALL DISTURBED AREAS SHALL RECEIVE TEMPORARY EROSION CONTROL SEEDING AS DESCRIBED IN SPECS, UNTIL PERMANENT STABILIZATION CAN BE PERFORMED.
  7. THE COUNTY WILL ASSUME RESPONSIBILITY FOR MAINTAINING EROSION CONTROL MEASURES THROUGH FINAL STABILIZATION AFTER IDOT ACCEPTANCE OF WORK BY CONTRACTOR.



**LEGEND**

	AGGREGATE DITCH CHECK
	TEMPORARY DITCH CHECK
	SEEDING, CLASS 2
	DITCH FLOW ARROW
	PERIMETER EROSION BARRIER
	INLET AND PIPE PROTECTION

FILE NAME = H:\6848 CC Old State Rd Bridge\CA00 Sh	USER NAME = kschwartzjohn	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL PLAN</b>	TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12-01114-00-BR	CLINTON	75			21				
Default	PLOT DATE = 3/16/2017	CHECKED -	REVISED -	SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.		CONTRACT NO. 97647 [ILLINOIS] FED. AID PROJECT				

**GENERAL NOTES**

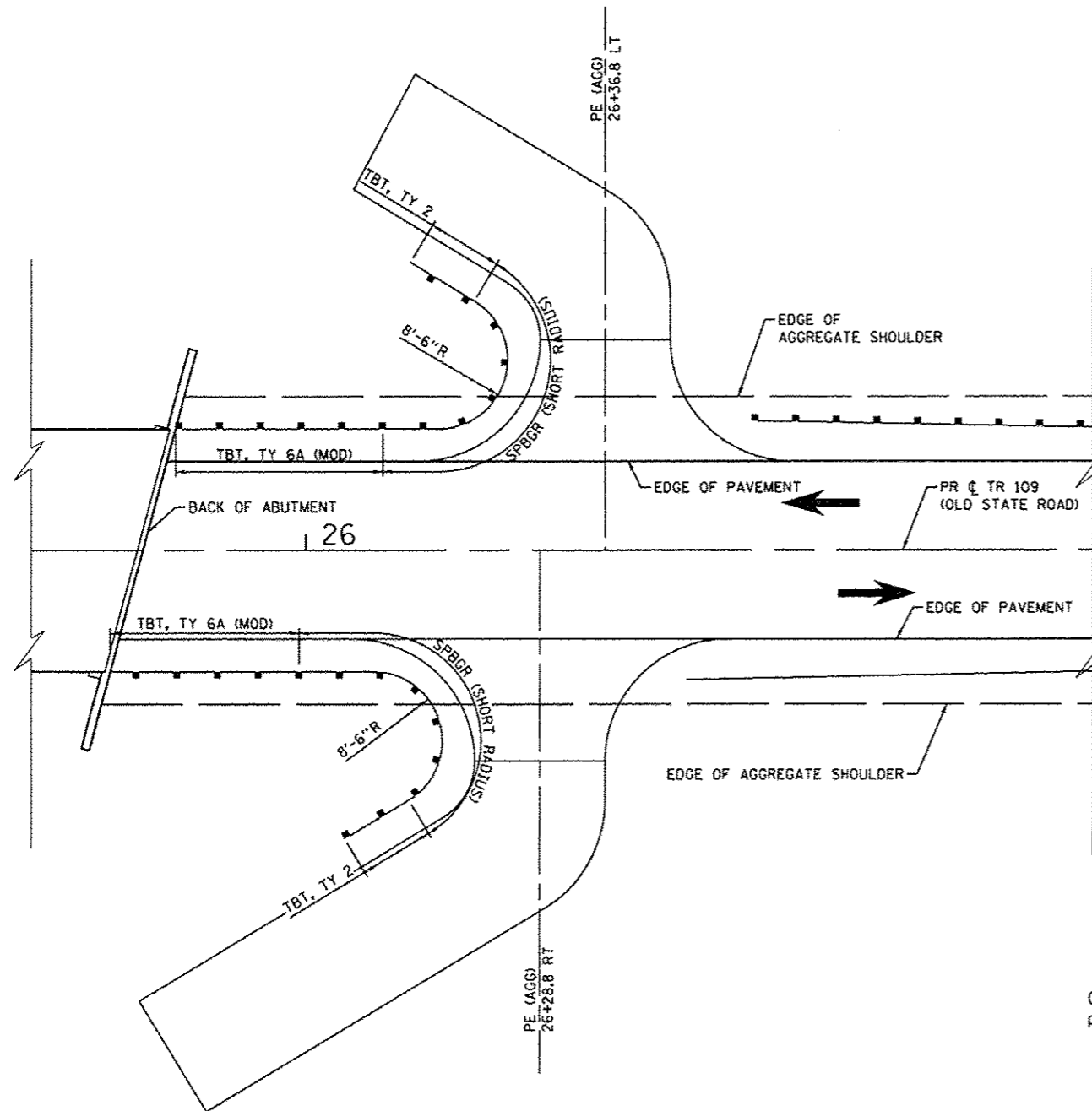
This standard shows attachment to curb mounted bridge rail. Attachment to side mounted bridge rail is similar.

See Standard 630001 for details of guardrail not shown.

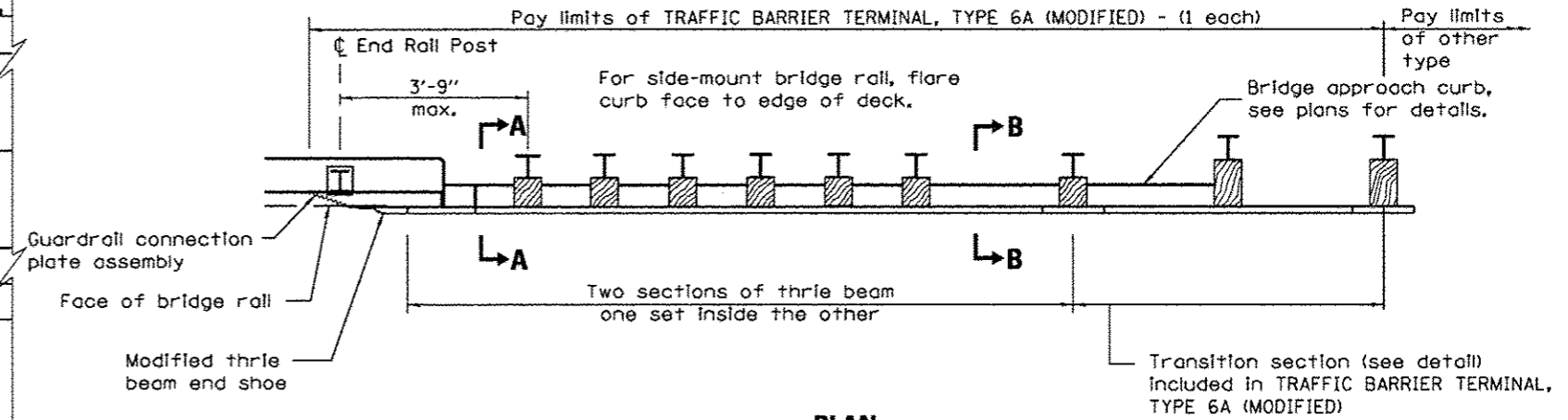
Thrie beam rail shall be bolted to block-out at all posts.

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

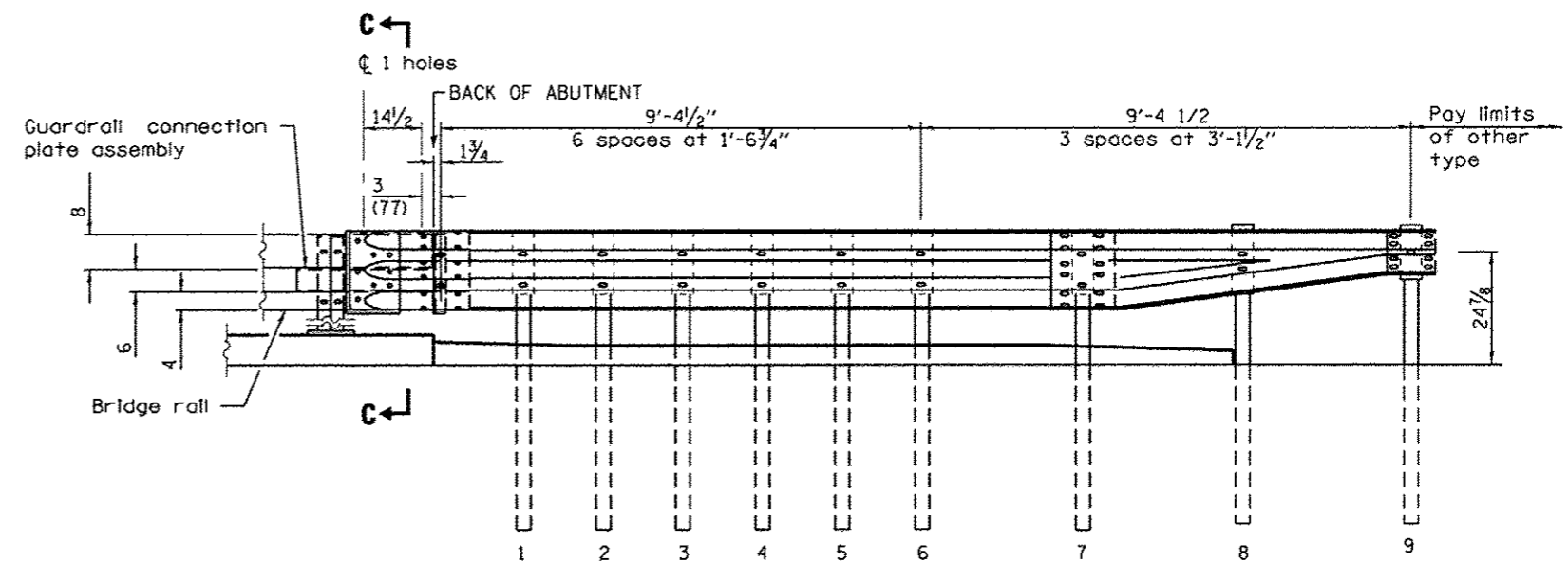
All dimensions are in inches (millimeters) unless otherwise shown.



GUARDRAIL LAYOUT AT BRIDGE DETAIL



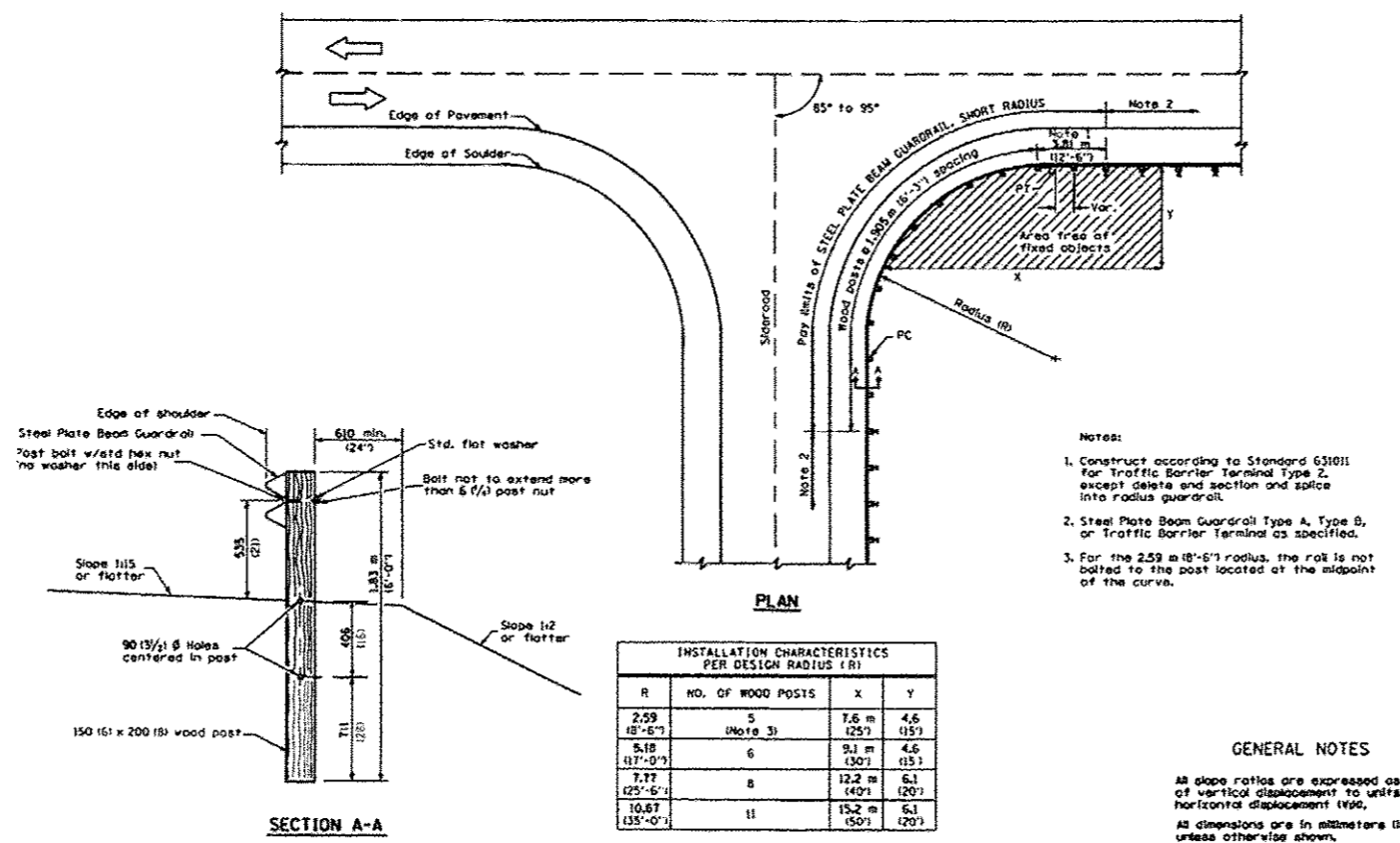
PLAN



ELEVATION

TRAFFIC BARRIER TERMINAL, TYPE 6A (MODIFIED) DETAILS

FILE NAME *	USER NAME * kachuser-john	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONSTRUCTION DETAILS</b>	TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
H:\6848 DC Old State Rd Bridge\CADD Sheets\6848-SHT-DETAILS.dgn		DRAWN -	REVISED -			109	12-01114-00-BR	CLINTON	75	22	
PLOT SCALE = 20.0000' / in.		CHECKED -	REVISED -			CONTRACT NO. 97647					
Default	PLOT DATE = 3/16/2017	DATE -	REVISED -			[ILLINOIS] FED. AID PROJECT					



- Notes:
1. Construct according to Standard 631011 for Traffic Barrier Terminal Type 2, except delete end section and splice into radius guardrail.
  2. Steel Plate Beam Guardrail Type A, Type B, or Traffic Barrier Terminal as specified.
  3. For the 2.59 m (8'-6") radius, the rail is not bolted to the post located at the midpoint of the curve.

INSTALLATION CHARACTERISTICS PER DESIGN RADIUS (R)			
R	NO. OF WOOD POSTS	X	Y
2.59 (8'-6")	5 (Note 3)	7.6 m (25')	4.6 (15')
5.18 (17'-0")	6	9.1 m (30')	4.6 (15')
7.77 (25'-6")	8	12.2 m (40')	6.1 (20')
10.67 (35'-0")	11	15.2 m (50')	6.1 (20')

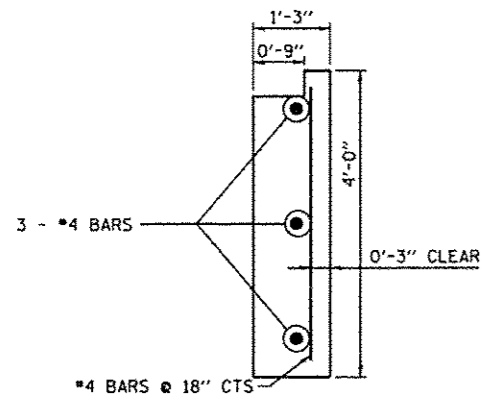
GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

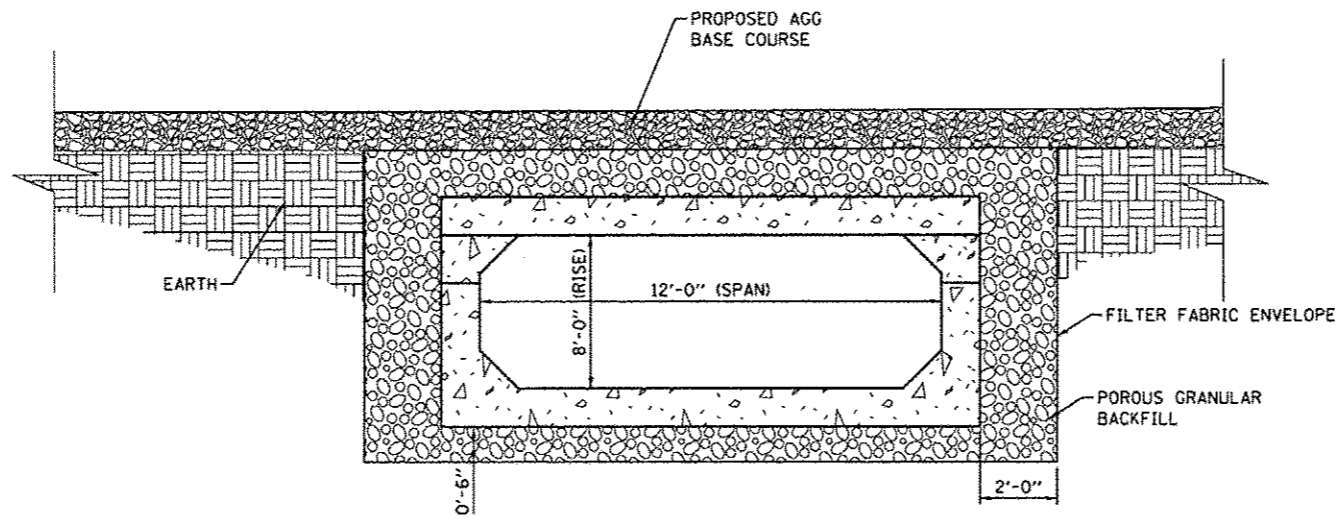
All dimensions are in millimeters (inches) unless otherwise shown.

STEEL PLATE BEAM GUARDRAIL, SHORT RADIUS  
Figure 35-4L

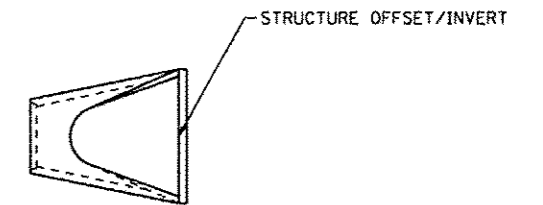
STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS) DETAILS



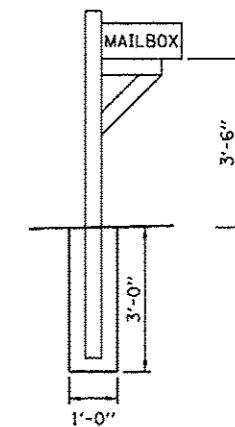
**BOX CULVERT TOEWALL DETAIL**  
(NOT TO SCALE)



**TYPICAL SECTION - PROPOSED BOX CULVERT**



**FLARED END SECTION DETAIL**



**TYPICAL MAILBOX DETAIL**  
(NOT TO SCALE)

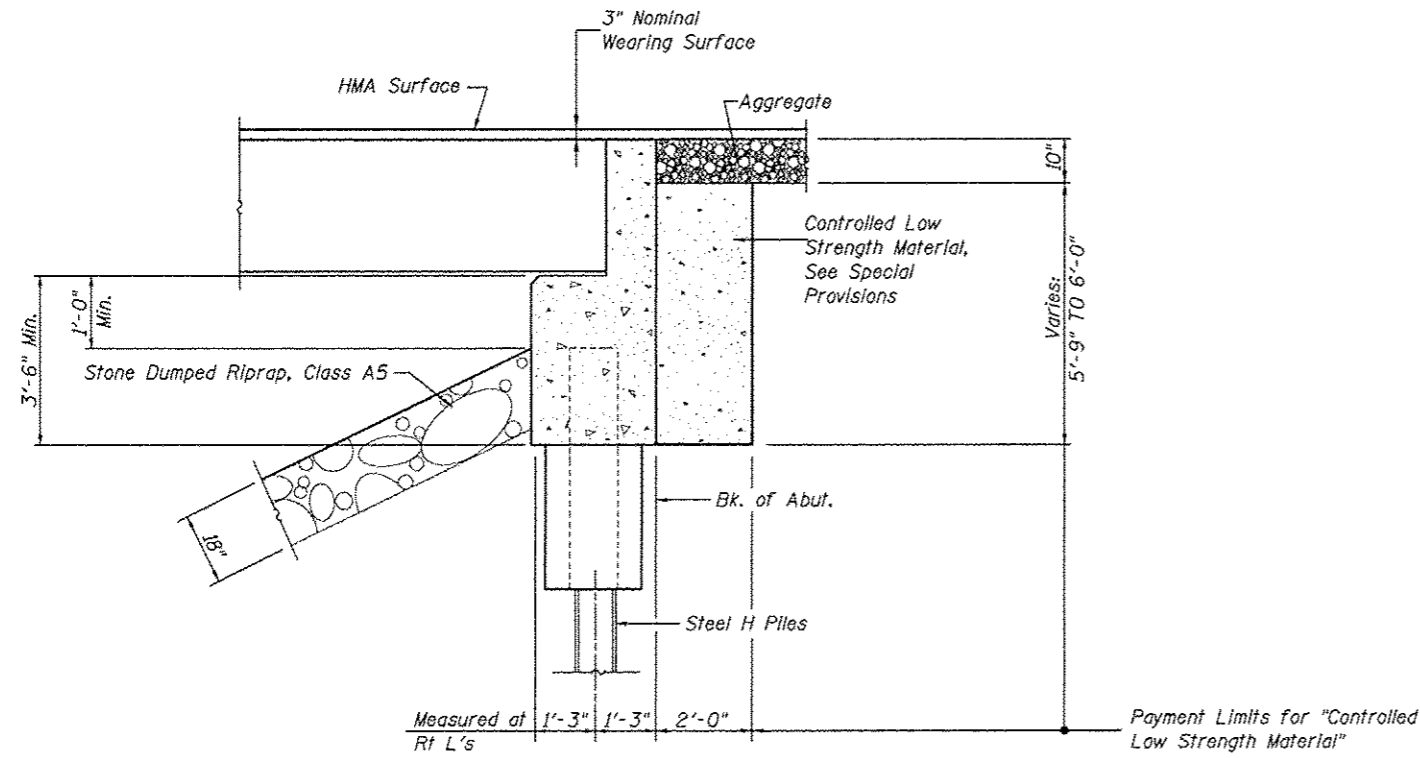
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Default	PLOT DATE = 3/16/2017	CHECKED -	REVISED -			CONTRACT NO. 97647					
		DATE -	REVISED -			SCALE:	SHEET 3 OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	





**GENERAL NOTES**

1. The Contractor shall drive two (2) test piles, one at the East Abutment and one at the West Abutment, in permanent locations, as directed by the Engineer, before ordering remaining piles.
2. Hot-mix asphalt surface course overlay for the bridge deck shall be constructed in accordance with applicable portions of Section 582 of the Standard Specifications.
3. Waterproofing membrane system for the bridge shall be in accordance with material and construction requirements of the applicable portions of Section 581 of the Standard Specifications.
4. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Deck beams shall be cleaned to the satisfaction of the Engineer before placing the waterproofing membrane system.
7. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

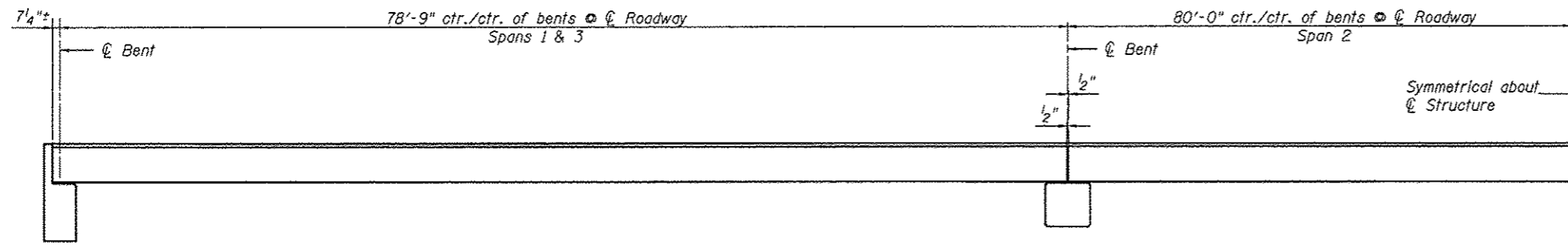


**SECTION THRU ABUTMENT**

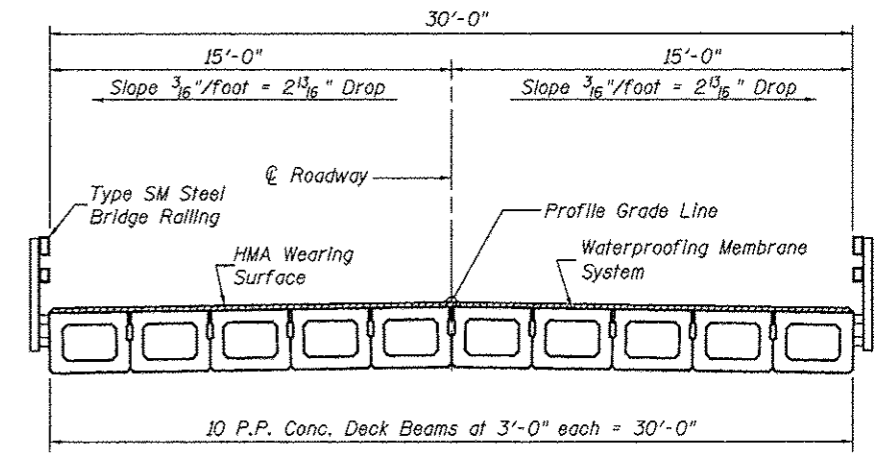
Shoal Creek  
 Built 201 by  
 Clinton County  
 Section 12-01114-00-BR  
 Proj. No. BR05-0027 (046)  
 Station 24+60.00  
 SN 014-4059 Loading HL 93

**NAME PLATE**  
 Locate Name Plate as shown in  
 Plan View. See Std. 515001.

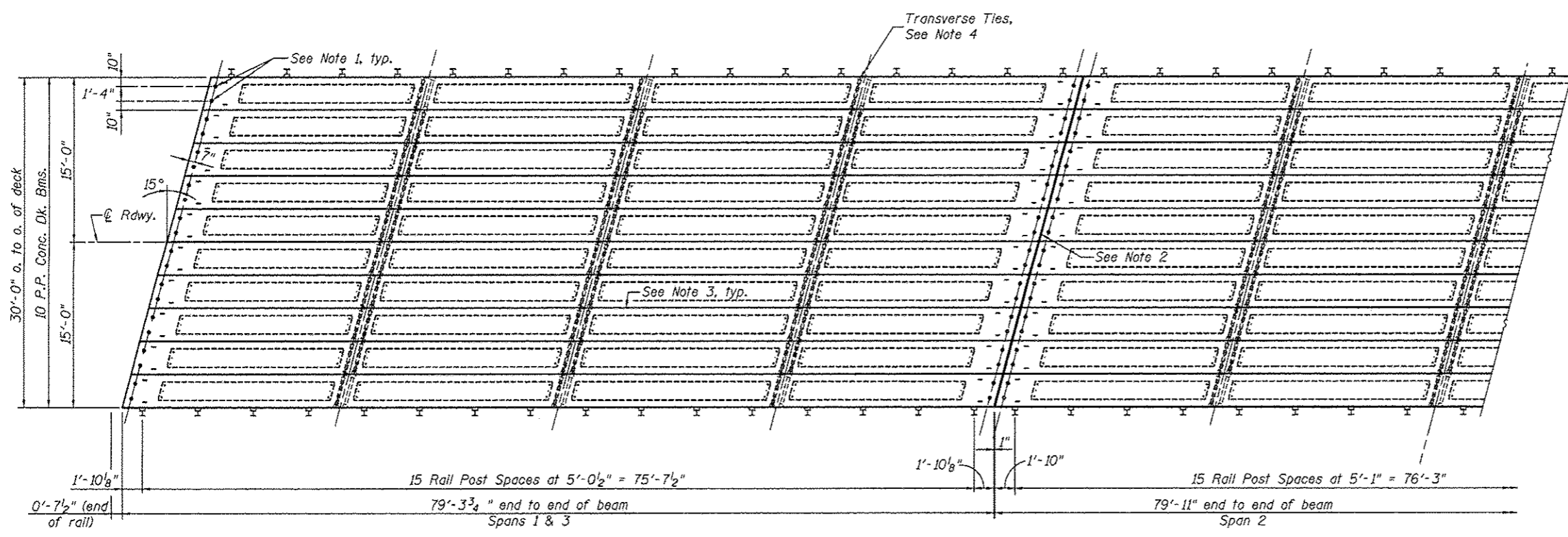
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						SHEET 2 OF 10 SHEETS	CONTRACT NO. 97647				
ILLINOIS FED. AID PROJECT											



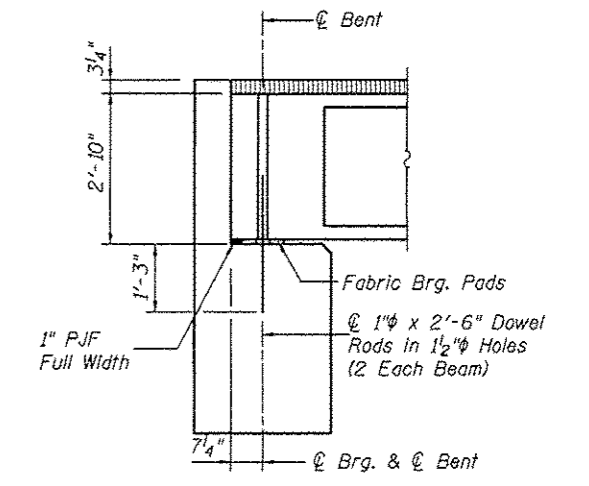
**PARTIAL ELEVATION**



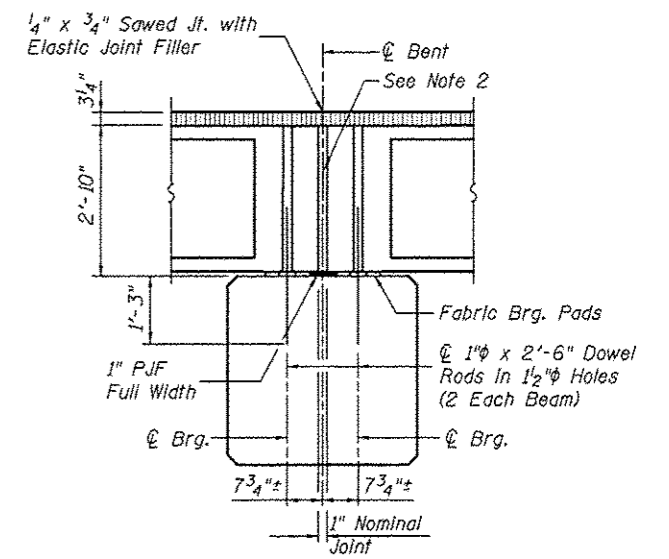
**CROSS SECTION**



**PARTIAL PLAN**

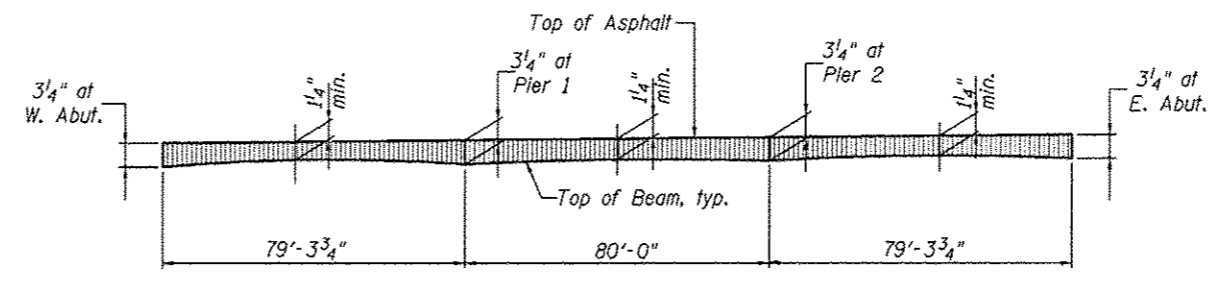


**SECTION AT ABUTS.**  
(Along Centerline of Beams)



**SECTION AT PIERS**  
(Along Centerline of Beams)

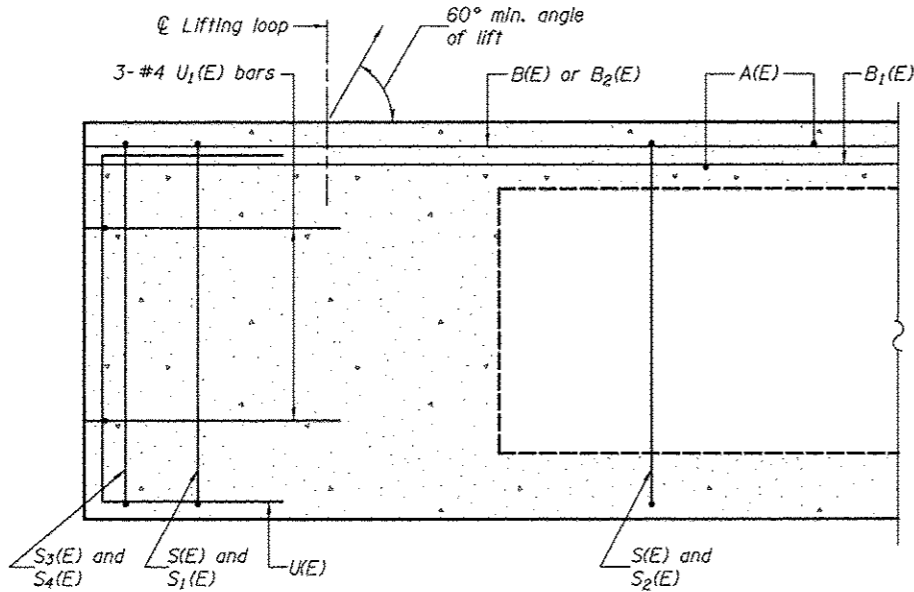
- NOTES**
- After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
  - Nominal 1" joint at Pier shall be filled with non-shrink grout. 1" Dimension may vary to accommodate tolerance in beam lengths.
  - Longitudinal keys shall be filled with non-shrink grout.
  - The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bars outside shall be filled with grout after transverse tie assembly is in place.



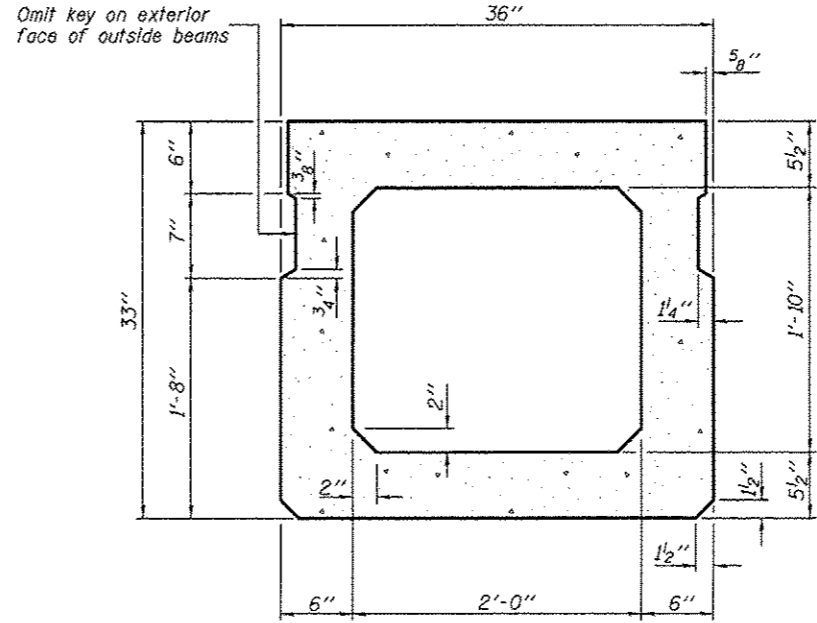
**PROFILE OF OVERLAY**

**BILL OF MATERIAL**

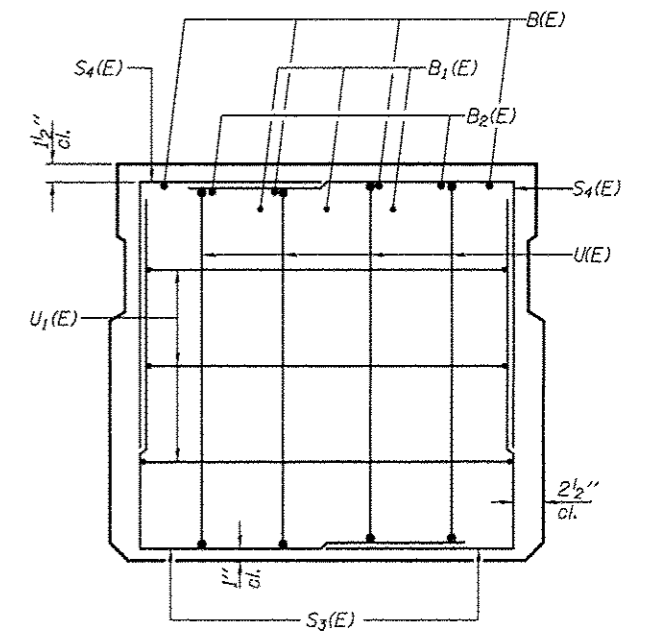
Item	Unit	Quantity
Waterproofing Membrane System	Sq Yd	796
Hot-Mix Asphalt Surf. Cse., Mix "C", N50	Ton	87



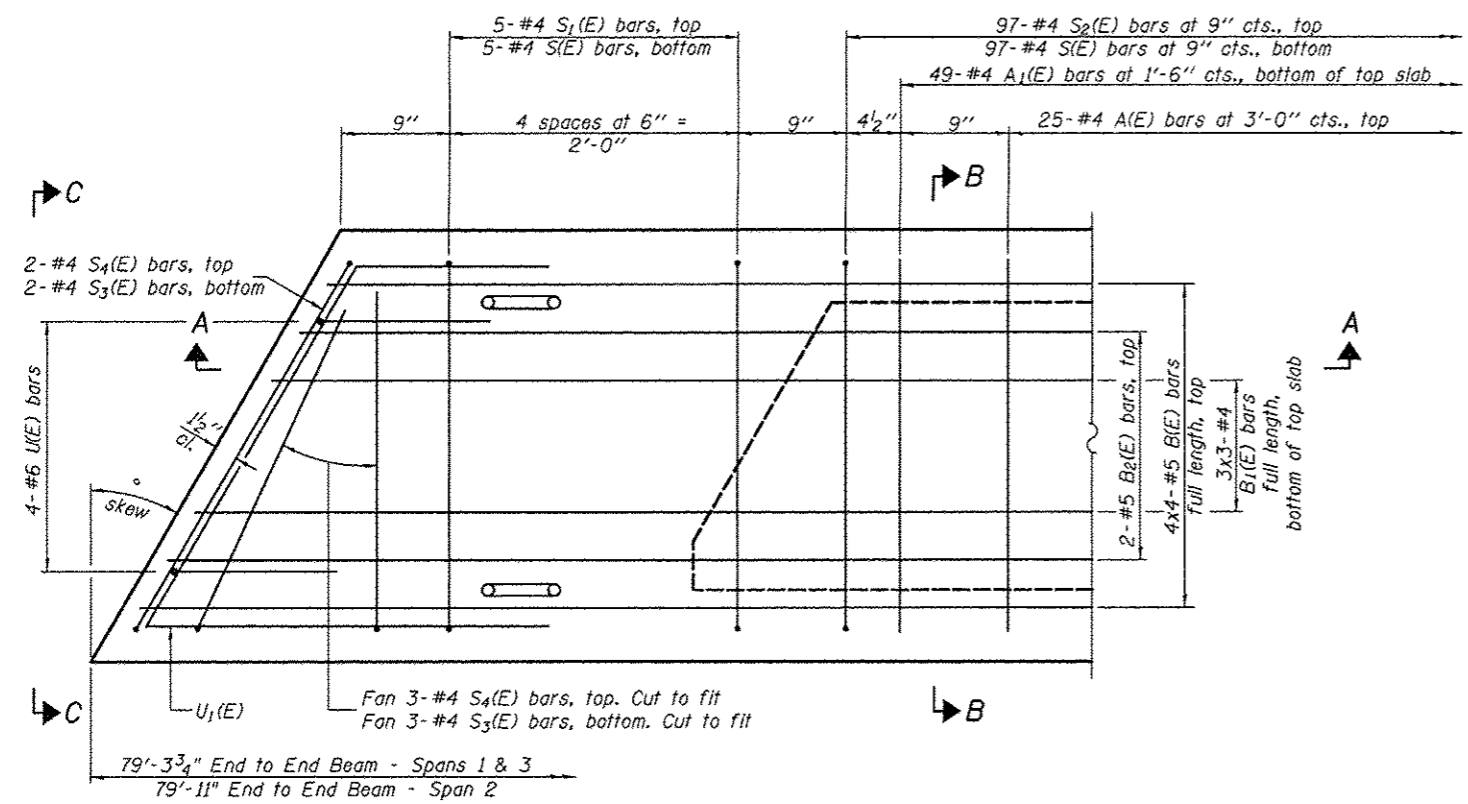
SECTION A-A



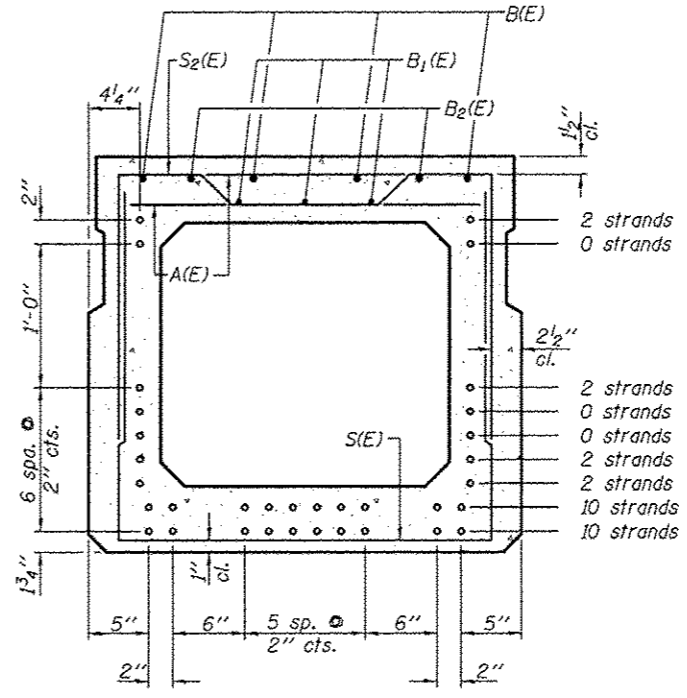
SECTION B-B  
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B

(Showing reinforcement and permissible strand locations)  
28 1/2" Strands

(10 Strands 1 3/4" up, 10 Strands 3 3/4" up,  
2 Strands 5 3/4" up, 2 Strands 7 3/4" up,  
2 Strands 13 3/4" up, 2 Strands 27 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)	25	#4	2'-7"	—
B(E)	16	#5	21'-10"	—
B1(E)	9	#4	27'-11"	—
B2(E)	4	#5	10'-0"	—
S(E)	107	#4	7'-8"	┘
S1(E)	10	#4	6'-5"	┘
S2(E)	97	#4	6'-8"	┘
S3(E)	10	#4	4'-11"	┘
S4(E)	10	#4	4'-4"	┘
U(E)	8	#6	5'-0"	┘
U1(E)	6	#4	5'-9"	┘

Note: See sheet 5 of 10 for additional details and Bill of Material.

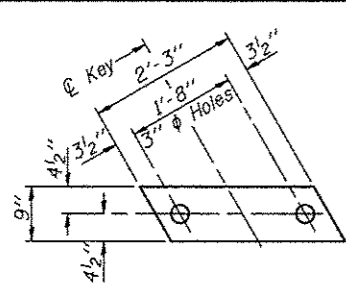
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

**MINIMUM BAR LAP**

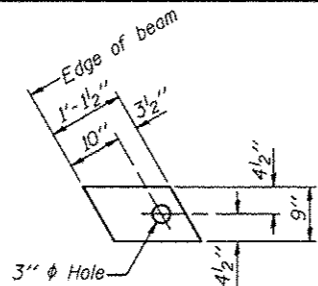
#4 bar = 1'-11"  
#5 bar = 2'-6"

PD-3336-L

6-8-15



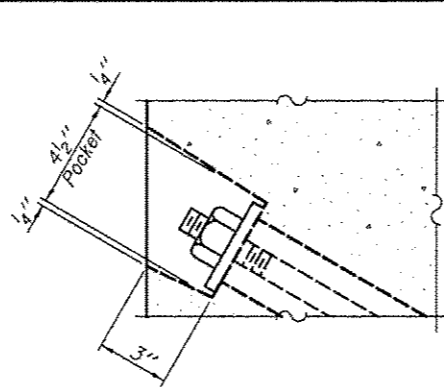
**FABRIC BEARING PAD**  
(Interior)



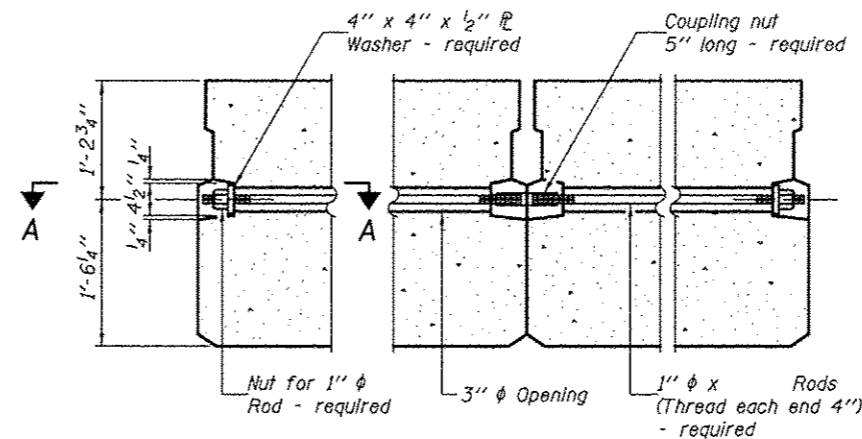
**FABRIC BEARING PAD**  
(Exterior)

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

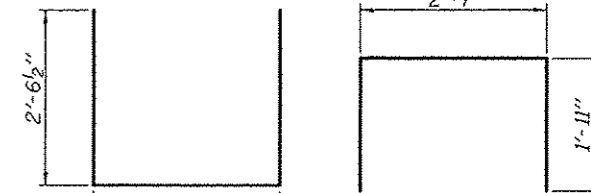
**FIXED**



**SECTION A-A**

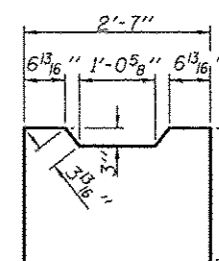


**TYPICAL TRANSVERSE TIE ASSEMBLY**



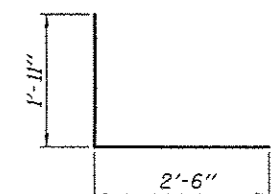
**BAR S<sub>1</sub>(E)**

**BAR S(E)**

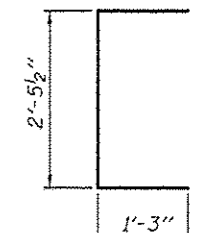


**BAR S<sub>2</sub>(E)**

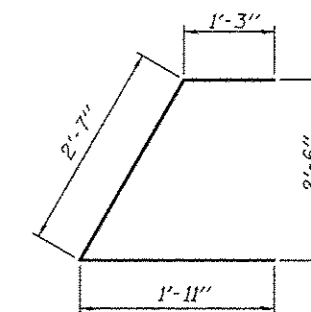
**BAR S<sub>3</sub>(E)**



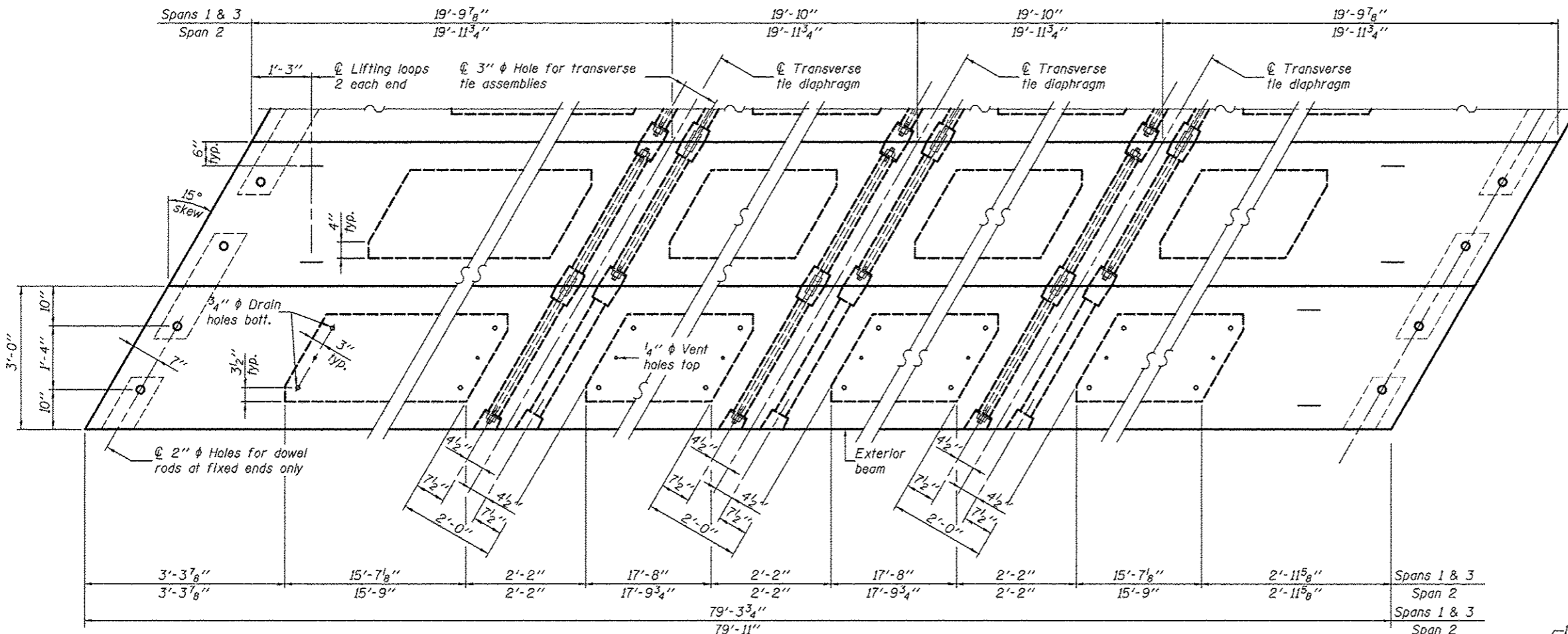
**BAR S<sub>4</sub>(E)**



**BAR U(E)**



**BAR U<sub>1</sub>(E)**

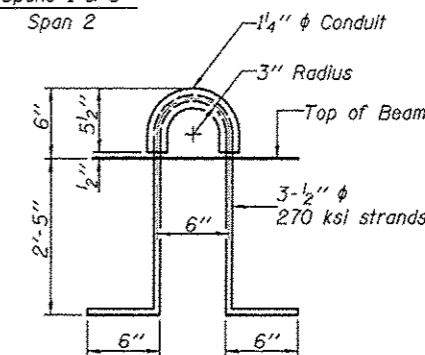


**PLAN VIEW**

**NOTES**

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

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



**LIFTING LOOP DETAIL**

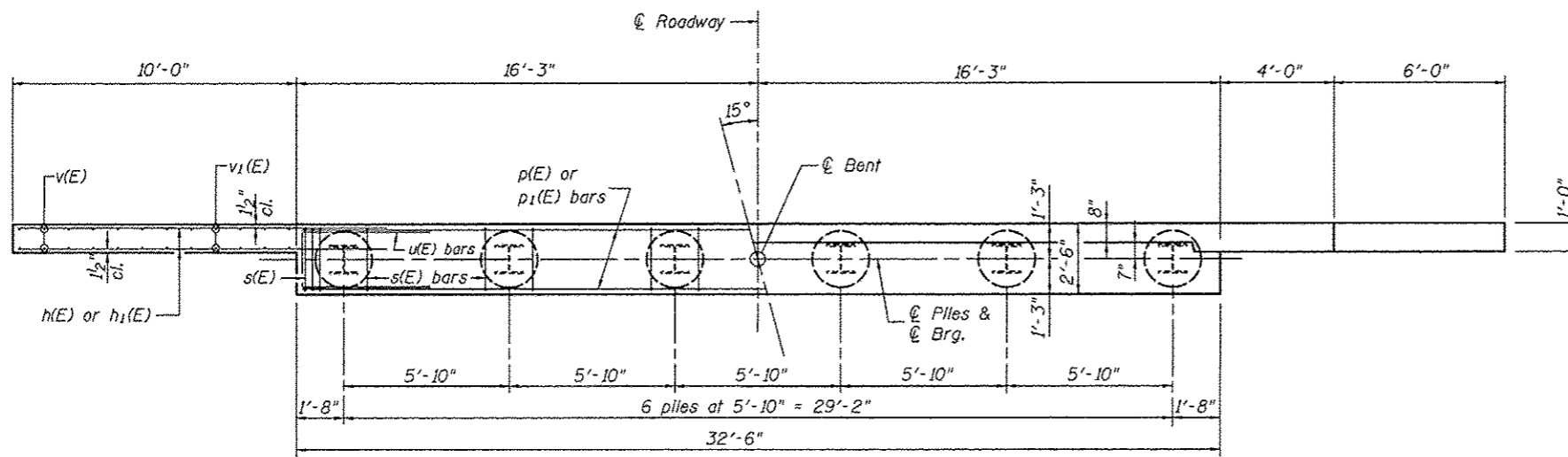
**BILL OF MATERIAL**

Precast Prestressed Conc. Deck Bms. (33" depth)	Sq Ft	7,157
---	-------	-------

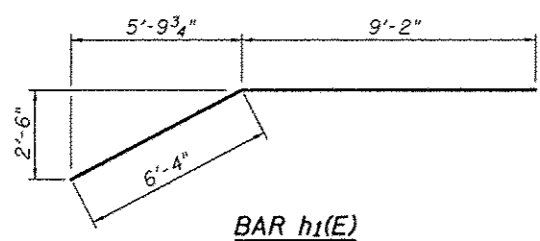
PD-3336-LD

1-28-16

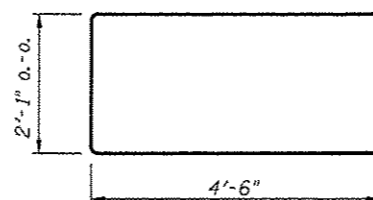
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PLOT SCALE: 1/8" = 1'-0"	CHECKED: LDC	REVISOR:	SHEET 5 OF 10 SHEETS			CONTRACT NO. 97647				
PLOT DATE: 3/15/2017	DATE:	REVISOR:	ILLINOIS FED. AID PROJECT							



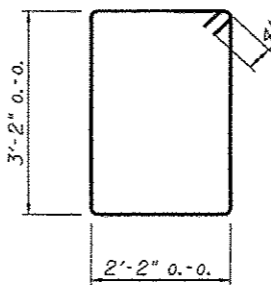
PLAN



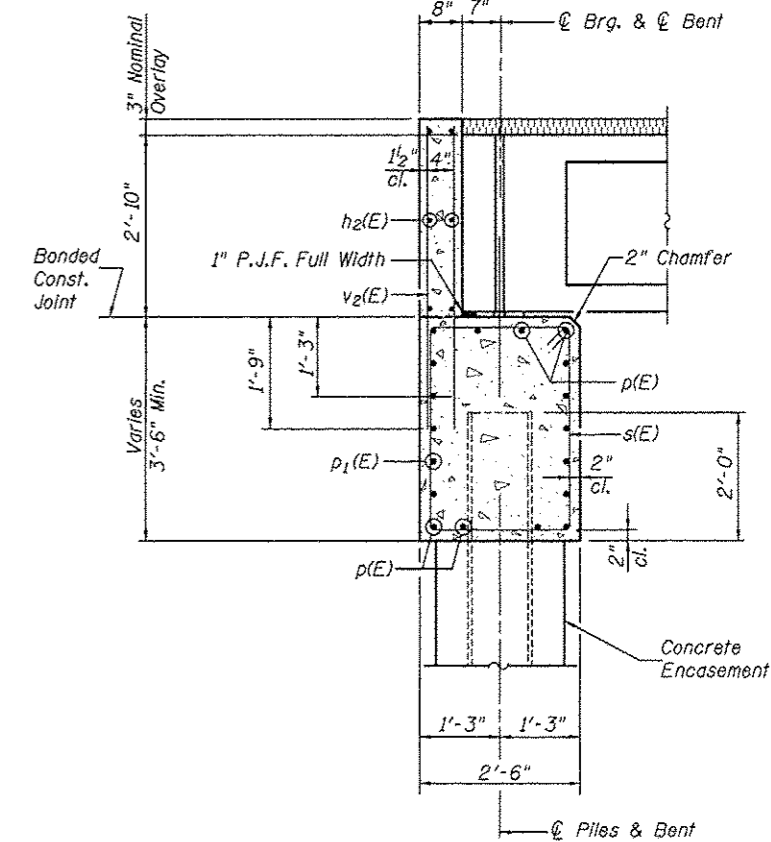
BAR h1(E)



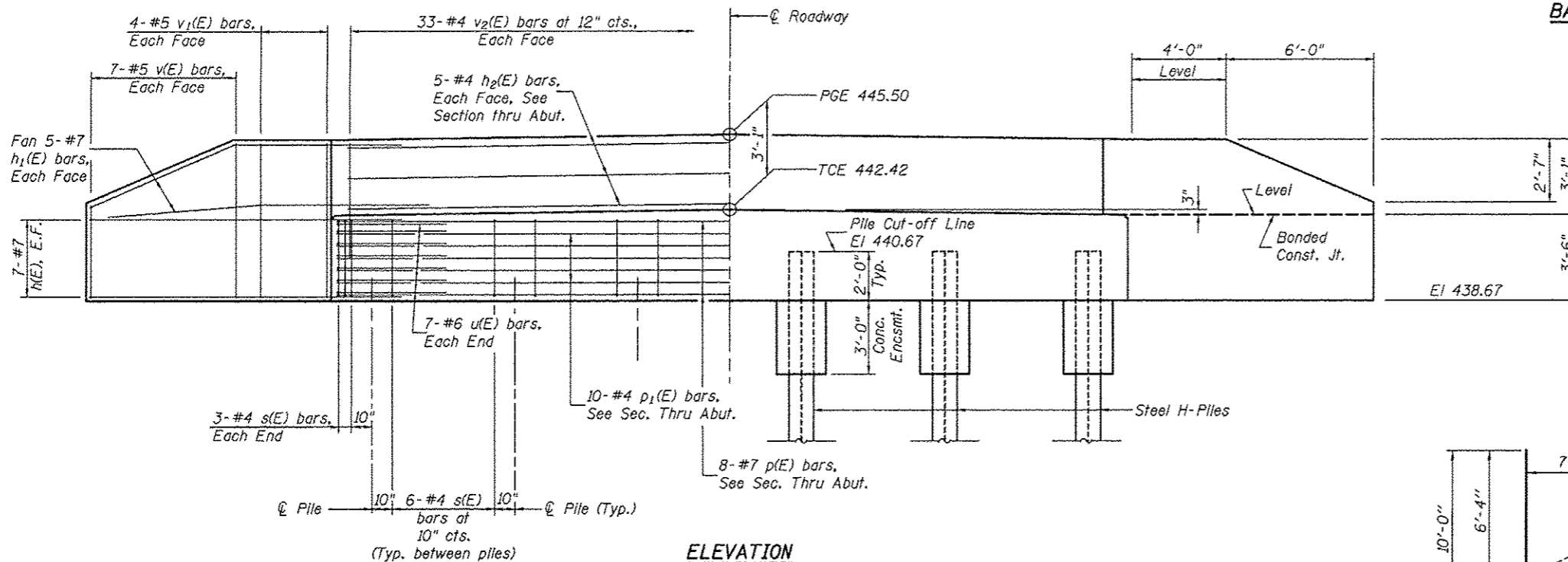
BAR u1(E)



BAR s(E)



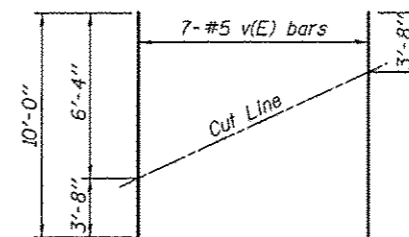
SECTION THRU ABUTMENT  
(at Right Angles)



ELEVATION

BILL OF MATERIAL  
FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h(E)	28	#7	15'-0"	—
h1(E)	20	#7	15'-6"	—
h2(E)	10	#4	32'-6"	—
p(E)	8	#7	32'-2"	—
p1(E)	10	#4	32'-2"	—
s(E)	36	#4	11'-5"	□
u(E)	14	#6	11'-1"	□
h(E)	14	#5	10'-0"	—
v1(E)	16	#5	6'-3"	—
v2(E)	66	#4	4'-9"	—
Concrete Structures			Cu Yd	17.8
Concrete Encasement - W. Abut.			Cu Yd	2.1
Concrete Encasement - E. Abut.			Cu Yd	2.1
Reinforcement Bars, Epoxy Coated			Pound	3,420
Furnishing Steel Piles HP 12x63 - West Abutment			Foot	145
Furnishing Steel Piles HP 12x63 - East Abutment			Foot	130
Driving Steel Piles - W. Abut.			Foot	145
Driving Steel Piles - E. Abut.			Foot	130
Test Pile Steel HP 12x63			Each	1



FIELD CUTTING DIAGRAM

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

PILE DATA

WEST ABUTMENT

Steel HP 12x63  
Nominal Required Bearing: 497 k  
Factored Resistance Available: 273 k  
Est. Length: 29 ft.  
No. Production Piles: 5  
No. Test Piles: 1

EAST ABUTMENT

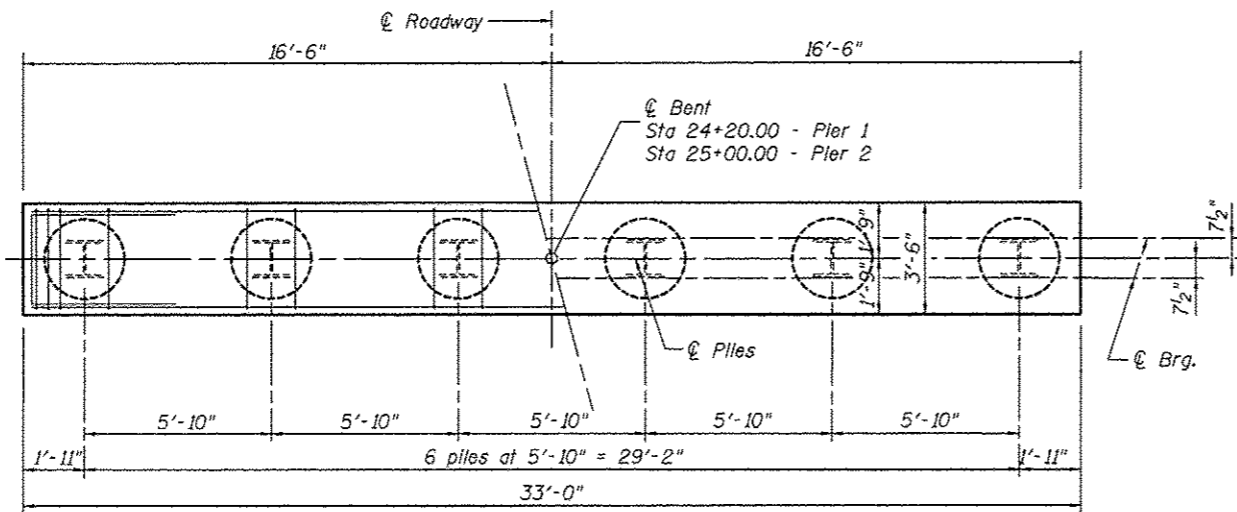
Steel HP 12x63  
Nominal Required Bearing: 497 k  
Factored Resistance Available: 273 k  
Est. Length: 26 ft.  
No. Production Piles: 5  
No. Test Piles: 1

NOTES

- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beams.
- Space reinforcement in cap to miss dowel rods.

Type:

Nominal Required Bearing: 497 k  
Factored Resistance Available: 273 k  
Est. Length: 29 ft.  
No. Production Piles: 5  
No. Test Piles: 1



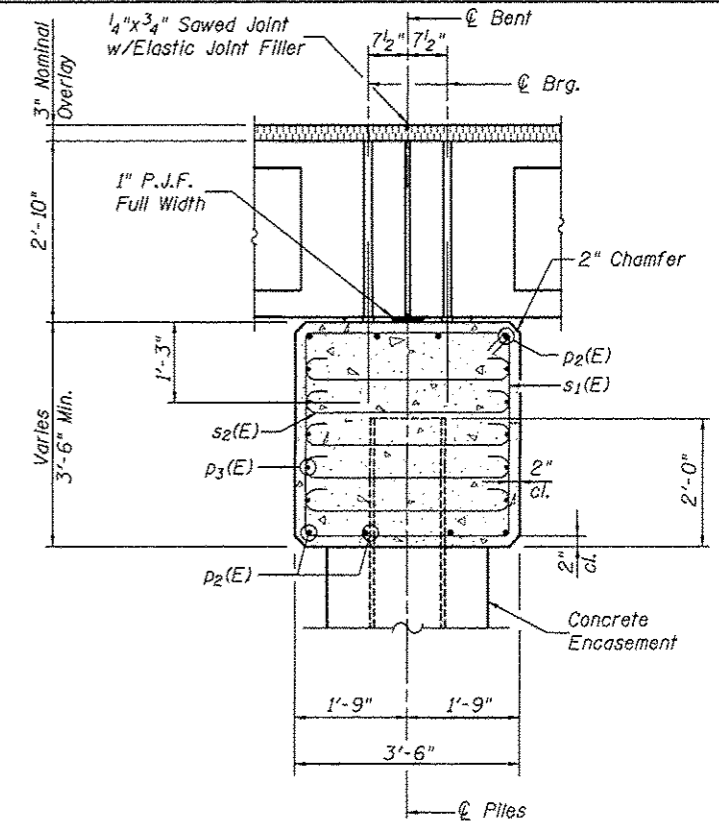
**PLAN**

Type:  
Nominal Required Bearing:  
Factored Resistance Available:  
Est. Length:  
No. Production Piles:  
No. Test Piles:

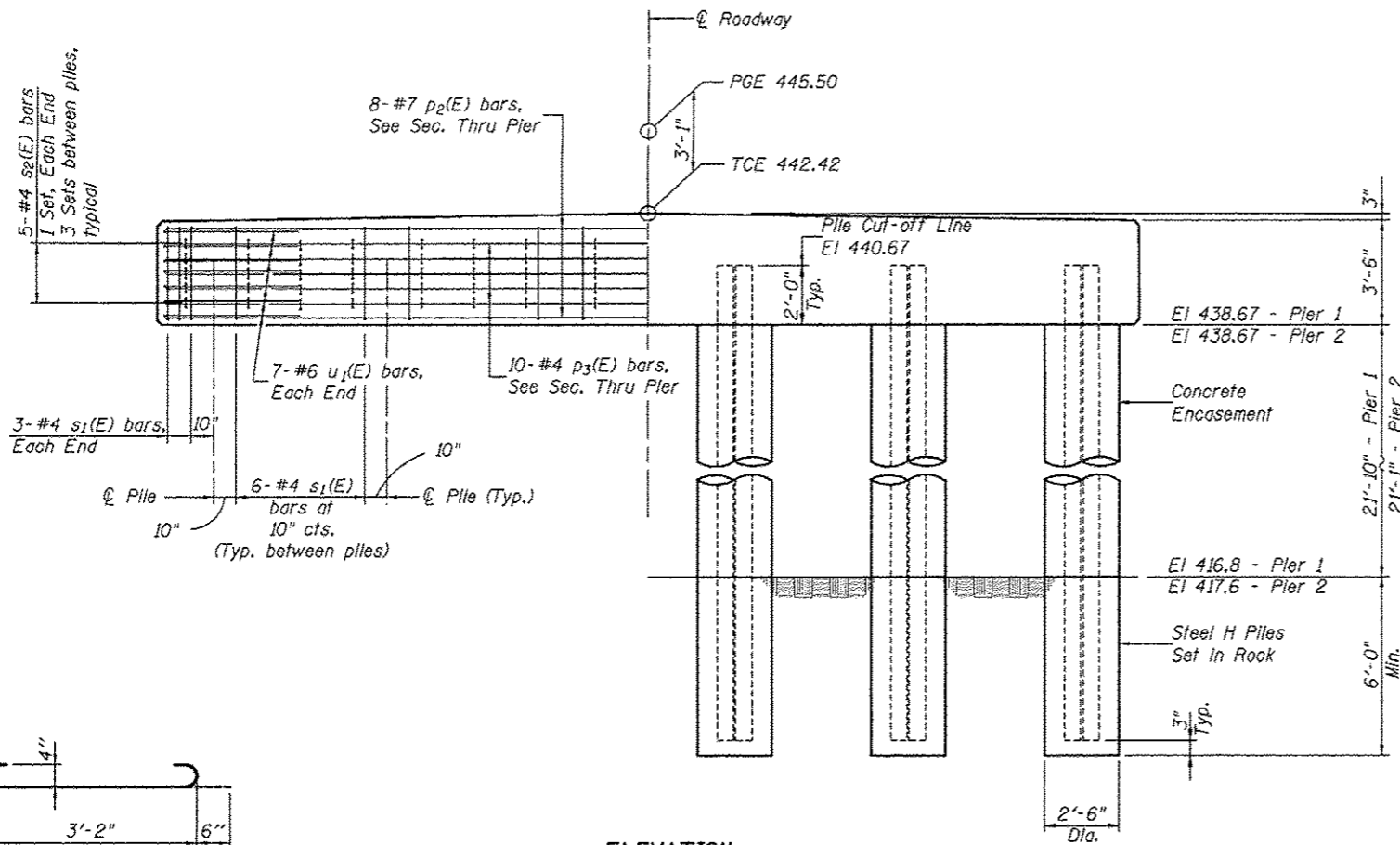
**PILE DATA**

**PIER 1**  
Steel HP 14x89  
Set in Rock  
717 k  
31 ft.  
6  
0

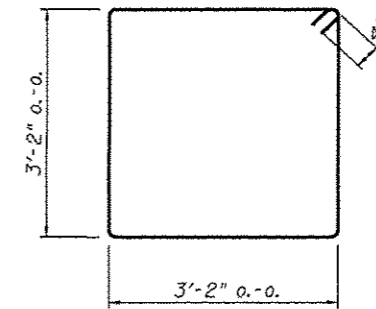
**PIER 2**  
Steel HP 14x89  
Set in Rock  
717 k  
30 ft.  
6  
0



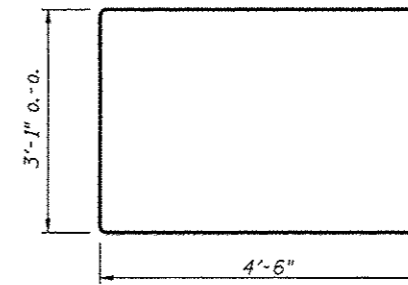
**SECTION THRU PIER**  
(at Right Angles)



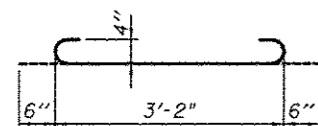
**ELEVATION**



**BAR s1(E)**



**BAR u1(E)**

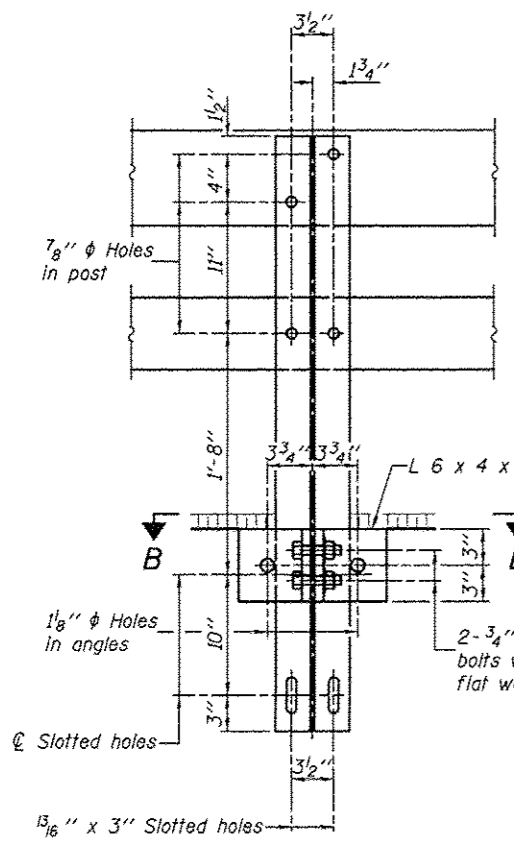


**BAR s2(E)**

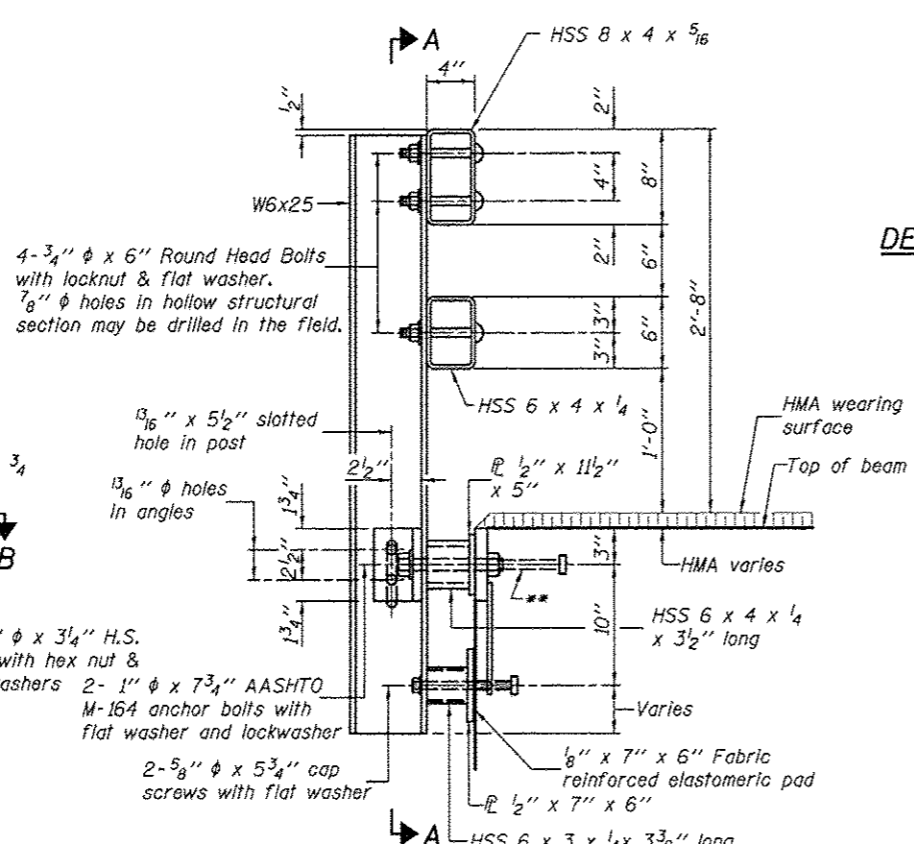
**BILL OF MATERIAL FOR ONE PIER**

Bar	No.	Size	Length	Shape	
p <sub>2</sub> (E)	8	#7	32'-8"	—	
p <sub>3</sub> (E)	10	#4	32'-8"	—	
s <sub>1</sub> (E)	30	#4	13'-5"	□	
s <sub>2</sub> (E)	85	#4	4'-2"	U	
u <sub>1</sub> (E)	14	#6	12'-1"	—	
Concrete Structures				Cu Yd	15.5
Concrete Encasement - Pier 1				Cu Yd	23.0
Concrete Encasement - Pier 2				Cu Yd	23.0
Reinforcement Bars, Epoxy Coated				Pound	1,520
Furnishing Steel Piles HP 14x89 - Pier 1				Foot	192
Furnishing Steel Piles HP 14x89 - Pier 2				Foot	186
Setting Piles in Rock				Each	6

**Notes:**  
For details of piles and concrete encasement see sheet 9 of 10.  
Space reinforcement in pile cap to miss dowel rods.  
If a portion of the concrete encasement is under water, reinforcement may be placed under water into forms.  
Concrete shall be tremled according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

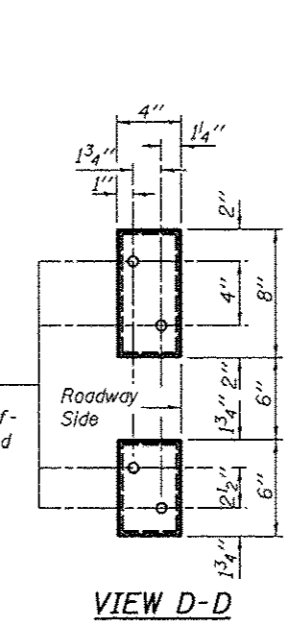
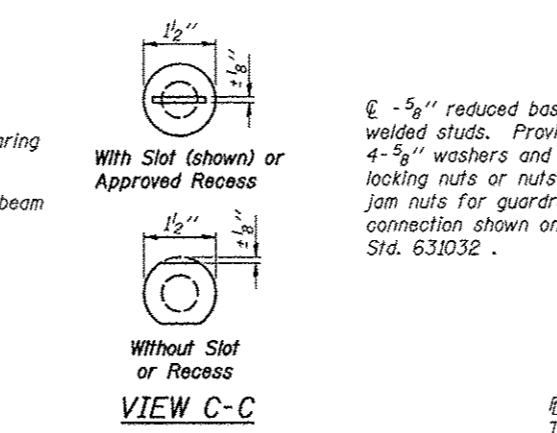


SECTION A-A

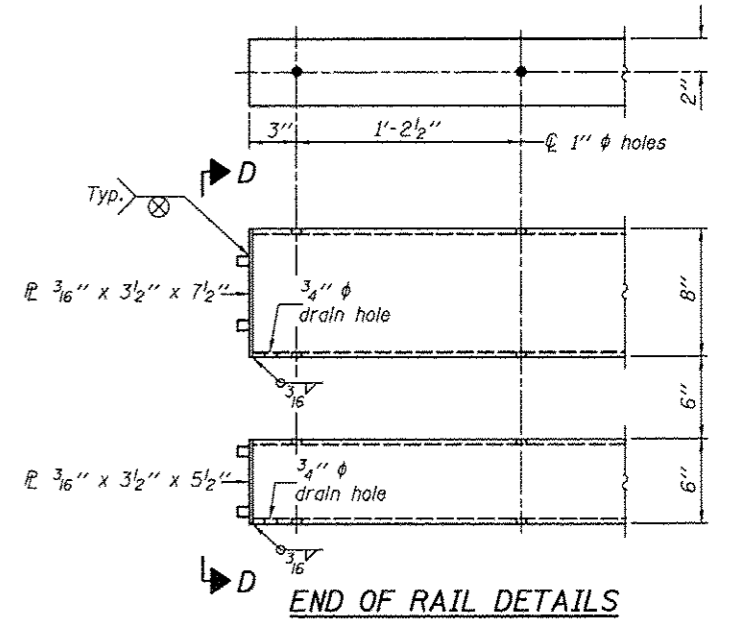


SECTION AT RAIL POST

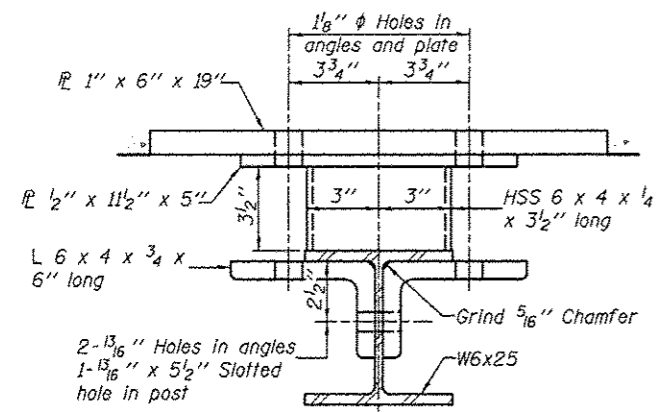
DETAIL OF 3/4" φ ROUND HEAD BOLT



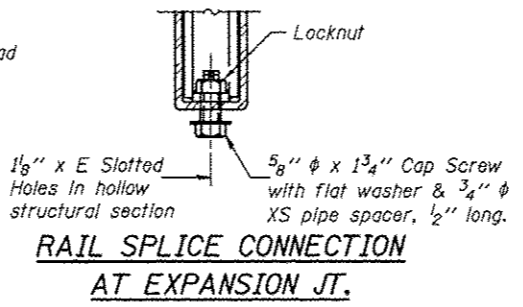
VIEW D-D



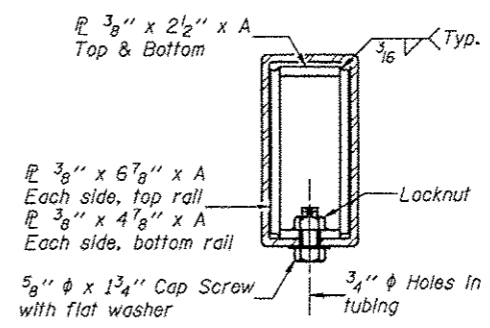
END OF RAIL DETAILS



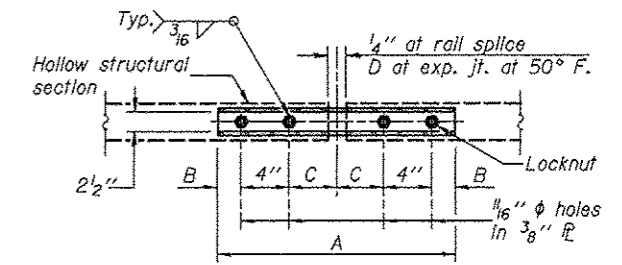
SECTION B-B



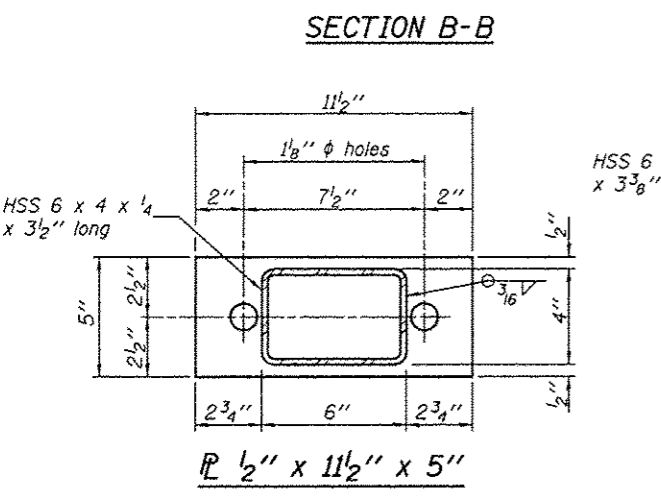
RAIL SPLICE CONNECTION AT EXPANSION JT.



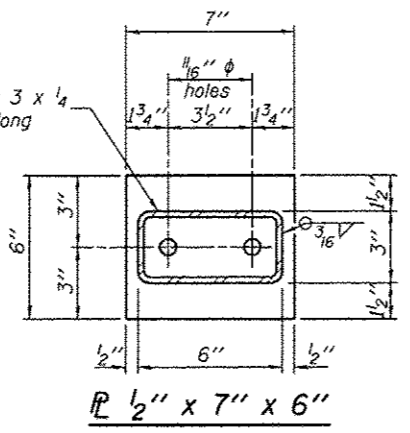
SECTION AT RAIL SPLICE



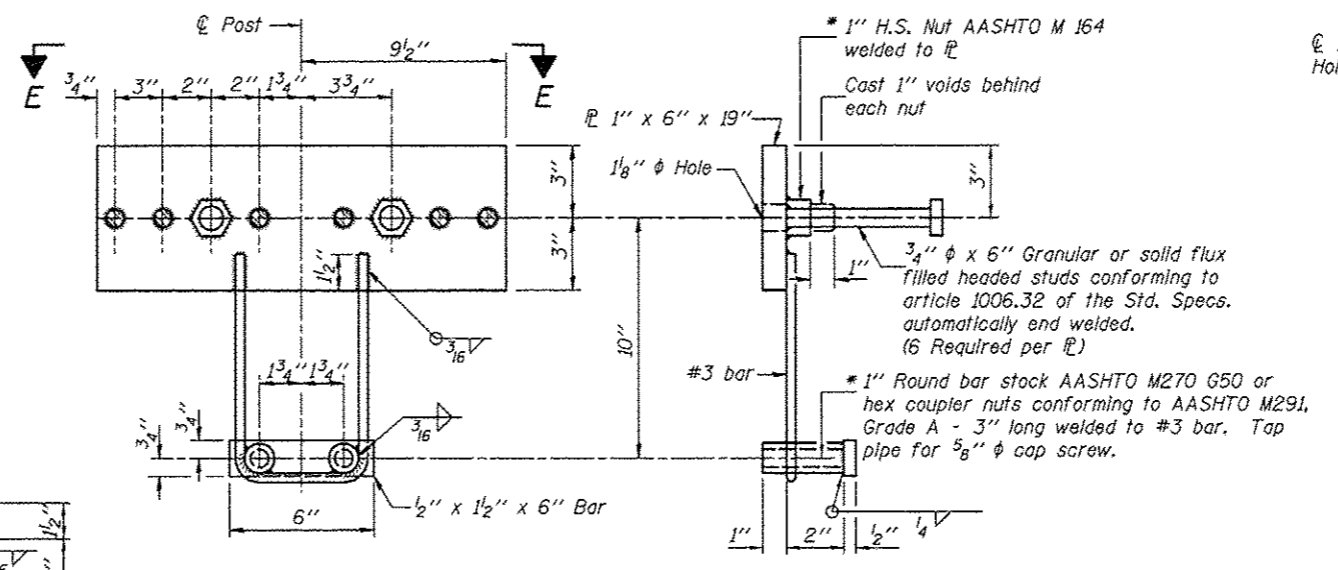
PLAN-BOTT. SPLICE AT TYPICAL



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



R 1/2" x 7" x 6"



ANCHOR DEVICE

SPLICE DIMENSIONS

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

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

Notes:  
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.  
All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.  
\*\* The studs of the anchor device 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 SM	Foot	480

R-34HMAWS

1-12-15 (6'-3" Maximum Post Spacing) (1 1/4" minimum to 3 1/8" maximum HMA thickness)

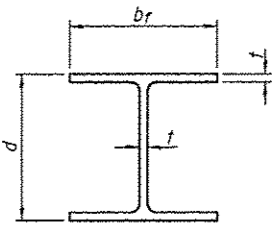
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PLOT DATE = 3/15/2017		KHL	
		CHECKED -	REVISED -
		LOG	
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE  
STRUCTURE NO. 014-4059  
SHEET 8 OF 10 SHEETS

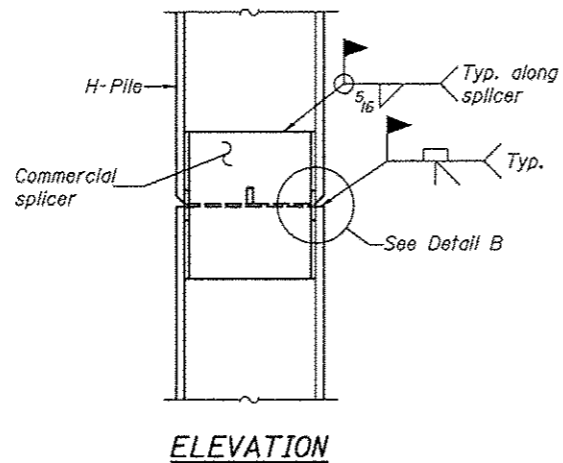
F.R. RTE. 109	SECTION 12-01114-00-BR	COUNTY CLINTON	TOTAL SHEETS 75	SHEET NO. 32
CONTRACT NO. 97647			ILLINOIS FED. AID PROJECT	



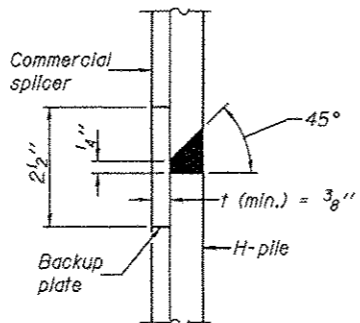


**STEEL PILE TABLE**

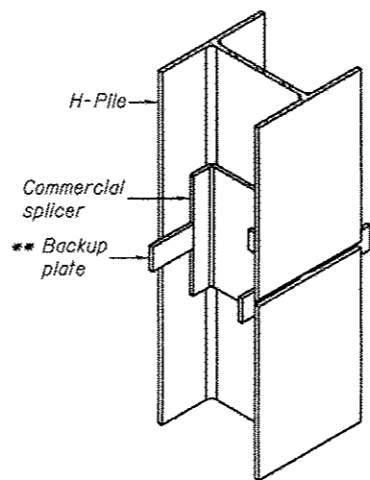
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 8/8"	12 1/4"	5/8"	24"
x63	12"	12 8/8"	1/2"	24"
x53	11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



**ELEVATION**

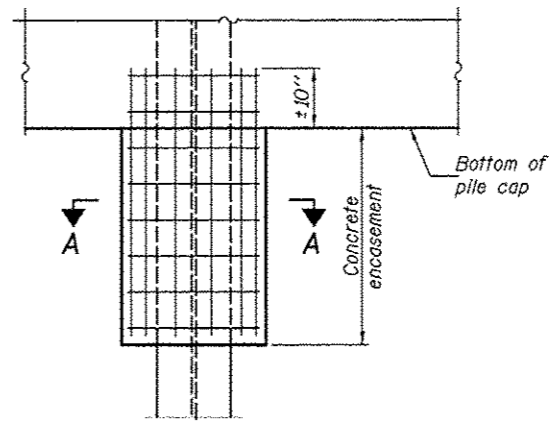


**DETAIL "B"**



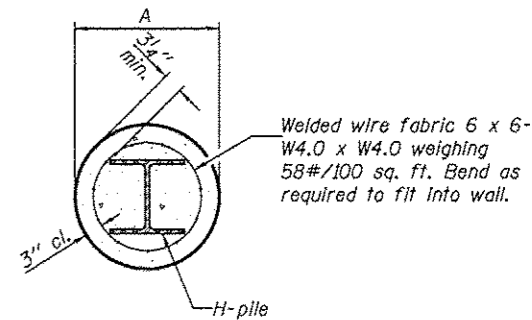
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE**



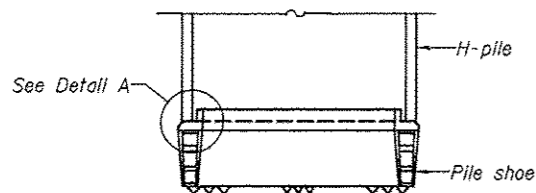
**ELEVATION**

**PILE ENCASEMENT**

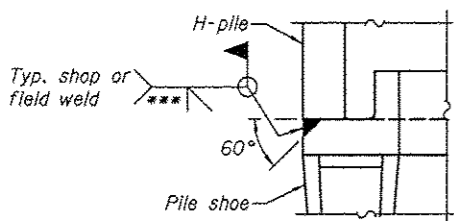


**SECTION A-A**

Note: Forms for encasement may be omitted when soil conditions permit.

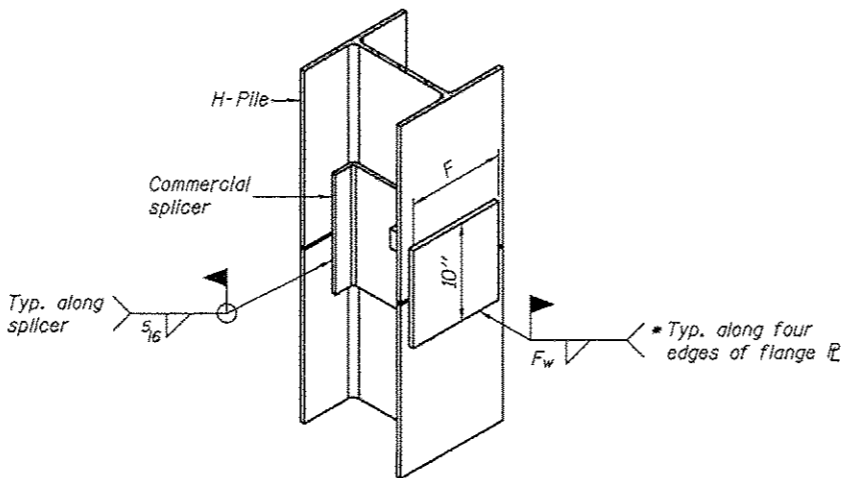


**ELEVATION**



**DETAIL A**

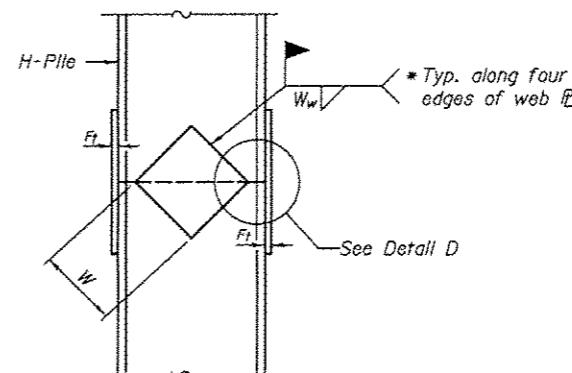
**H-PILE SHOE ATTACHMENT**



**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

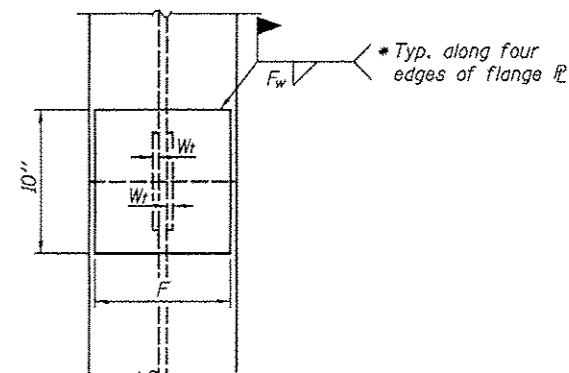
- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).



**ELEVATION**

**DETAIL D**

**WELDED PLATE FIELD SPLICE**



**END VIEW**

Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>t</sub>	W <sub>w</sub>
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

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

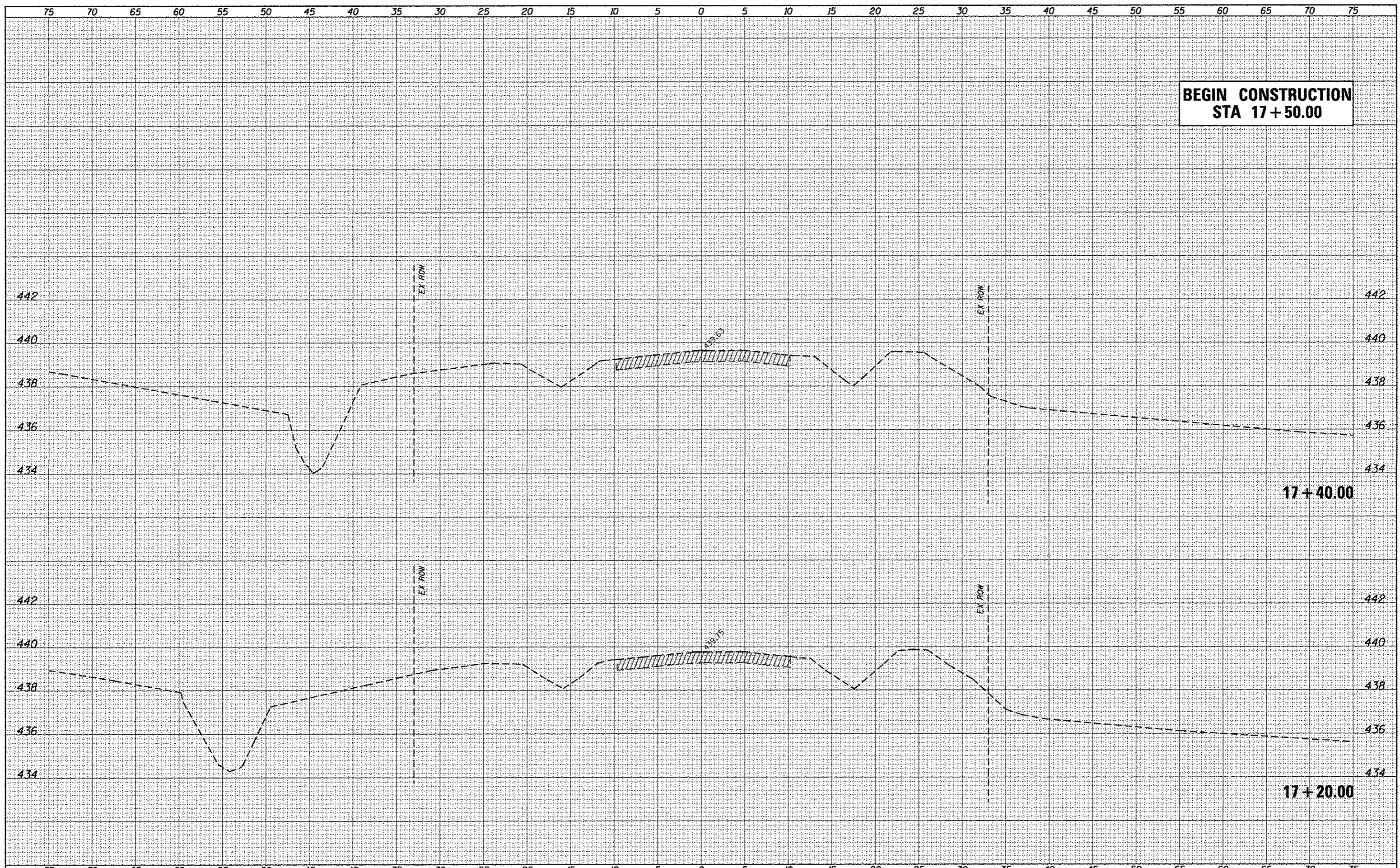
F-HP

1-27-12

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PLOT SCALE: 1/8" = 1'-0"	CHECKED: LOG	REVISED: -	REVISED: -			CONTRACT NO. 97647				
PLOT DATE: 3/15/2017	DATE: -	REVISED: -	REVISED: -			ILLINOIS FED. AID PROJECT				
						SHEET 9 OF 10 SHEETS				

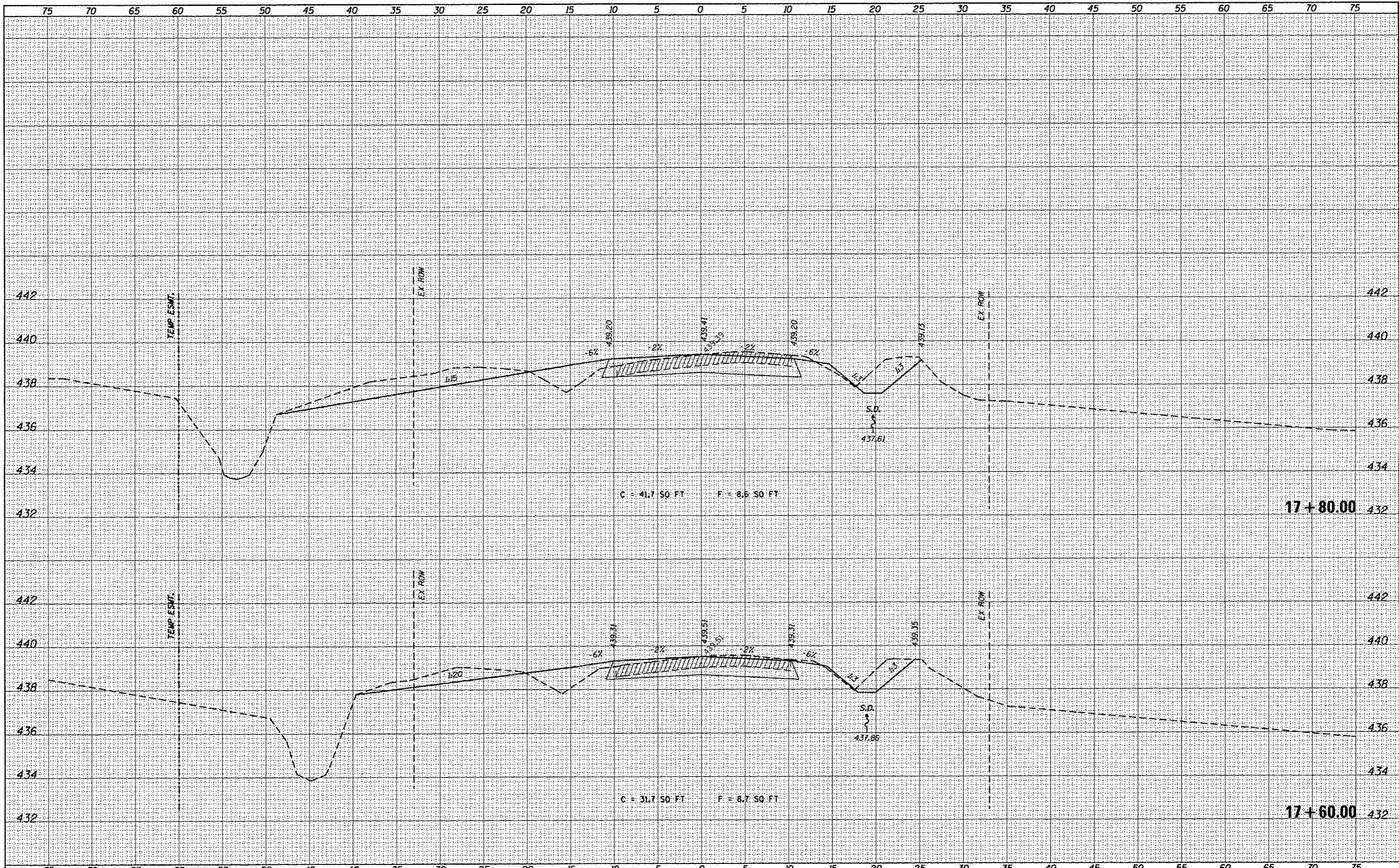


**BEGIN CONSTRUCTION  
STA 17+50.00**



DATE	
BY	
SAVED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	

DATE	
BY	
SAVED	
PLOTTED	
TEMPLATE	
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STOPPED	
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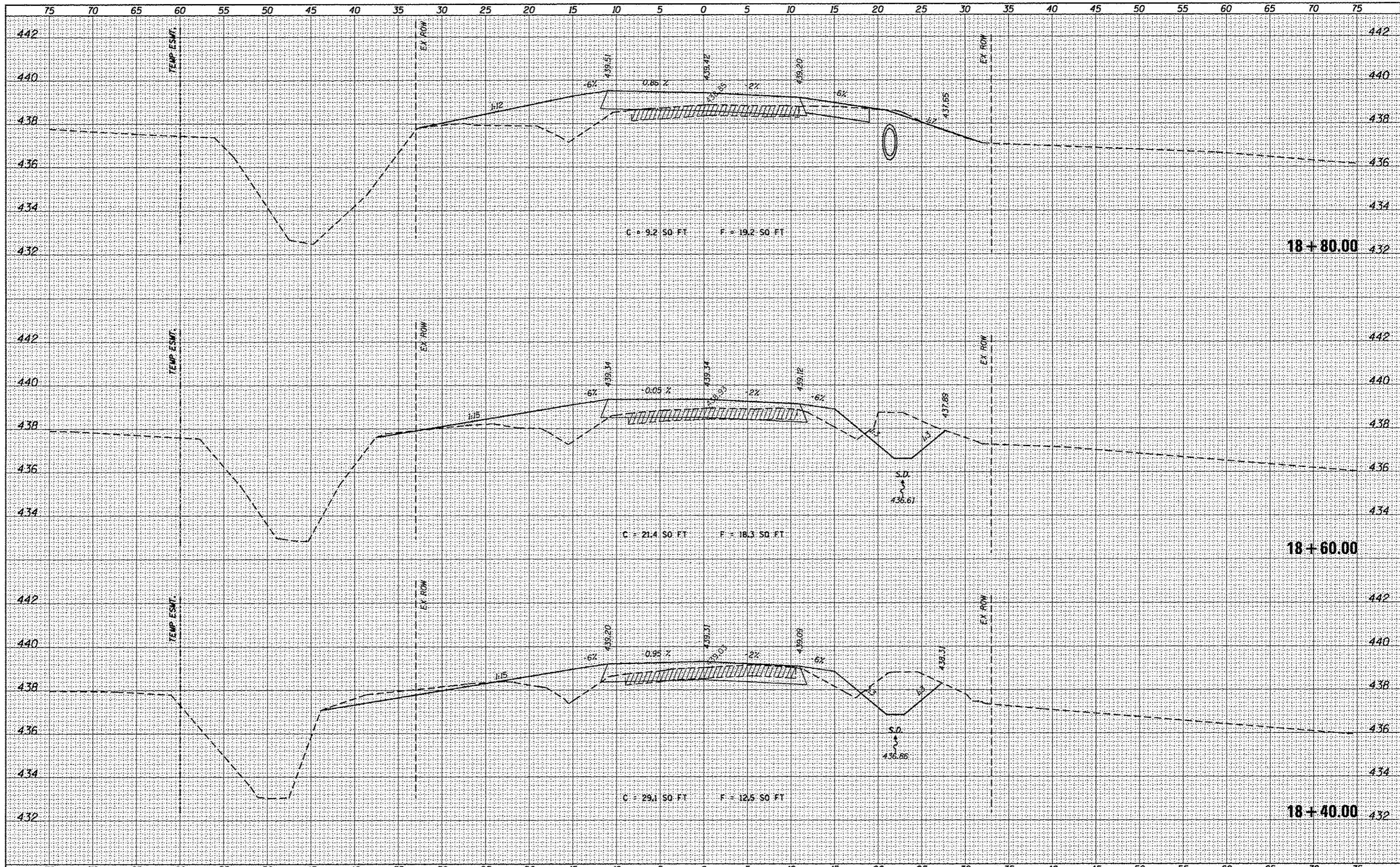
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Default	PLOT SCALE = 5.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2017	DATE -	REVISED -

<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>			
<b>CROSS-SECTIONS</b>			
SCALE:	SHEET	OF	SHEETS
			STA. 17+60.00 TO STA. 17+80.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
109	12-01114-00-BR	CLINTON	75	36
			CONTRACT NO. 97647	
ILLINOIS FED. AID PROJECT				





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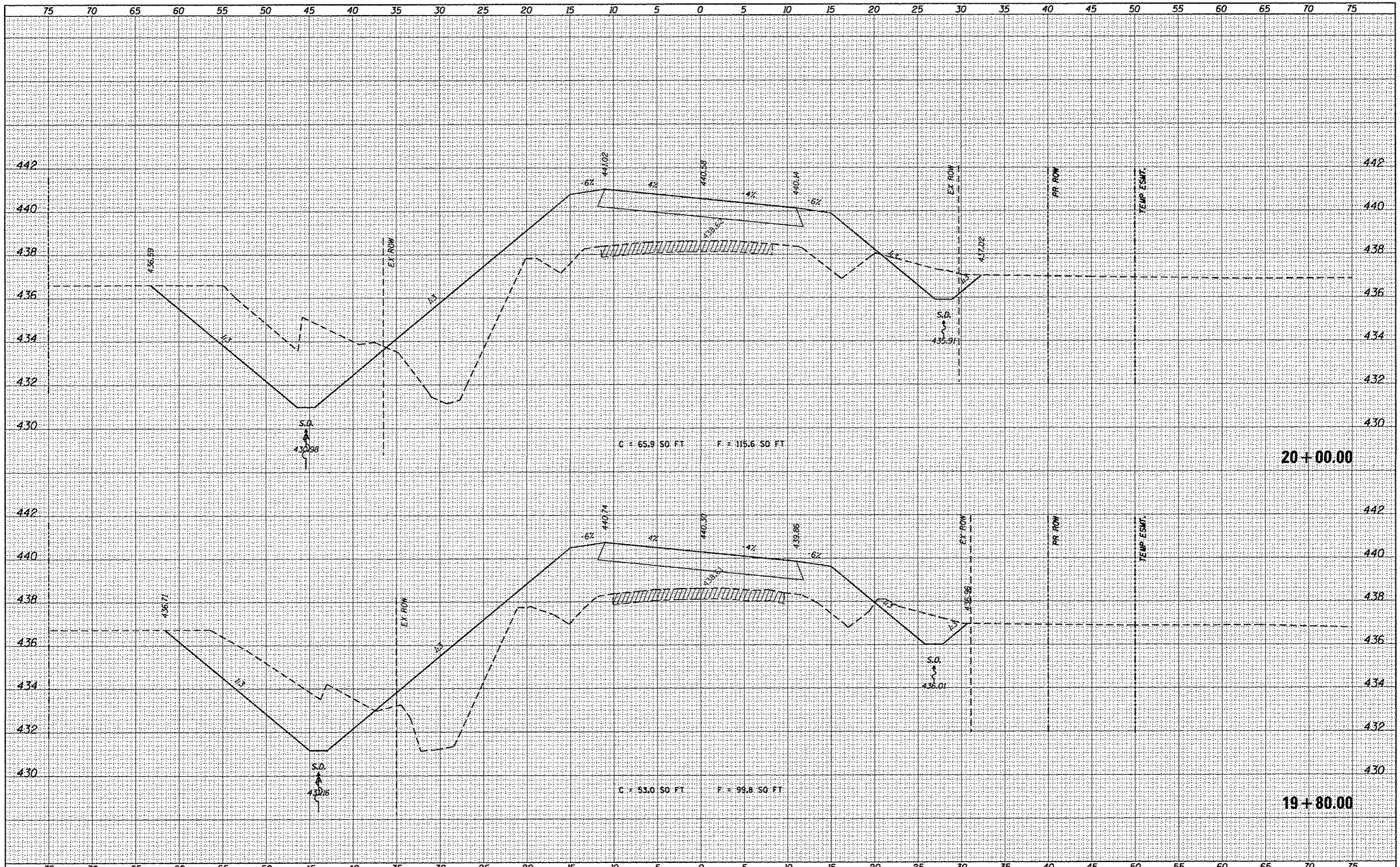
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Default	PLOT SCALE : 3/8" = 1'	DRAWN -	REVISED -			109	12-01114-00-BR	CLINTON	75	38	
	PLOT DATE : 3/16/2017	CHECKED -	REVISED -			CONTRACT NO. 97647			ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA. 18+40.00	TO STA. 18+80.00





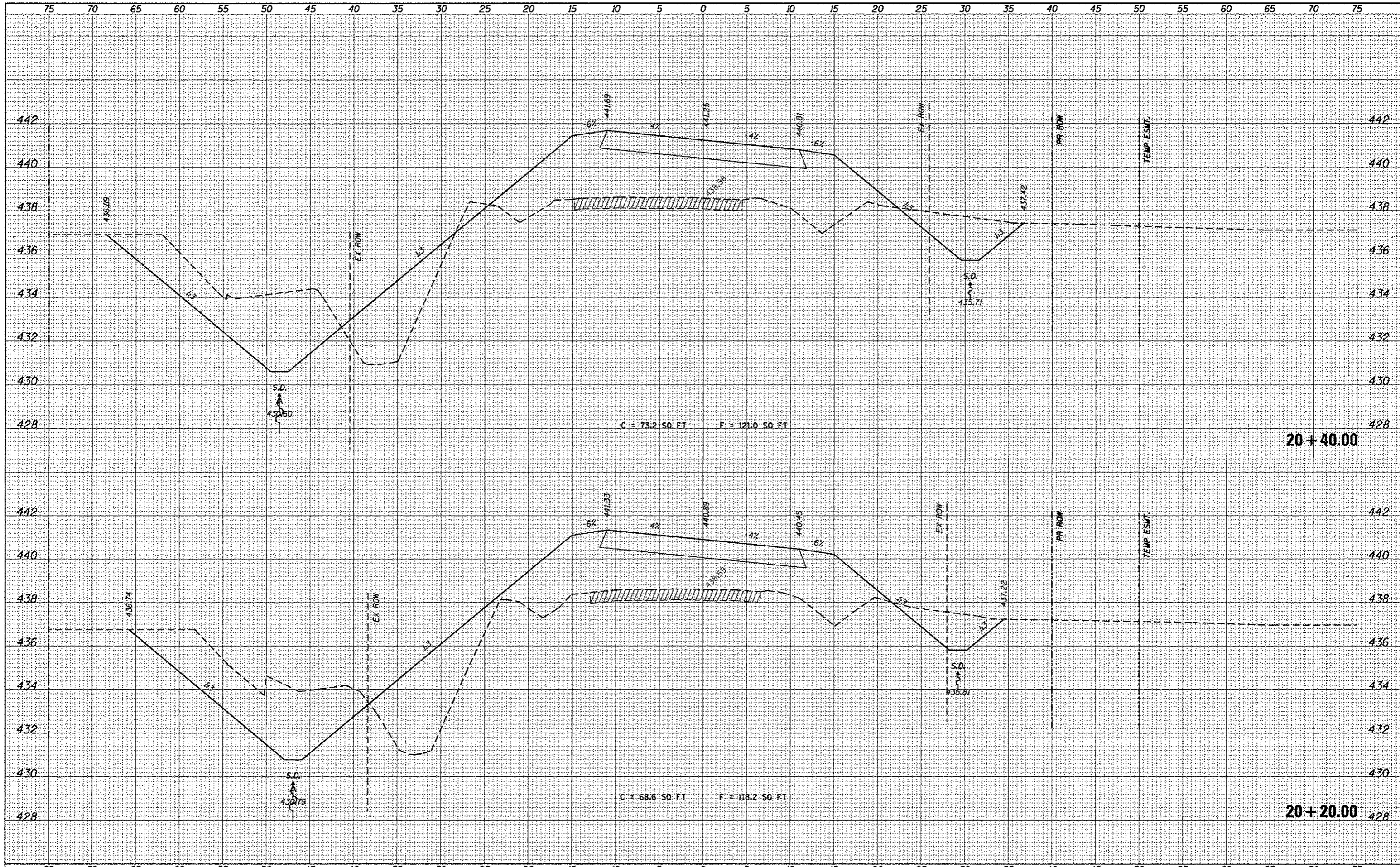




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FILE NAME =	USER NAME = kachwiarjohn	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS-SECTIONS</b>			TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
H:\0848 CC Old State Rd Bridge\CA00 Sheets\68	B-SHT-XSSHEET.dgn	DRAWN -	REVISED -		109	12-01114-00-BR	CLINTON	75	41			
PLOT SCALE = 5.0000' / in.		CHECKED -	REVISED -		CONTRACT NO. 97647							
PLOT DATE = 3/16/2017		DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 19+80.00	TO STA. 20+00.00	ILLINOIS FED. AID PROJECT	

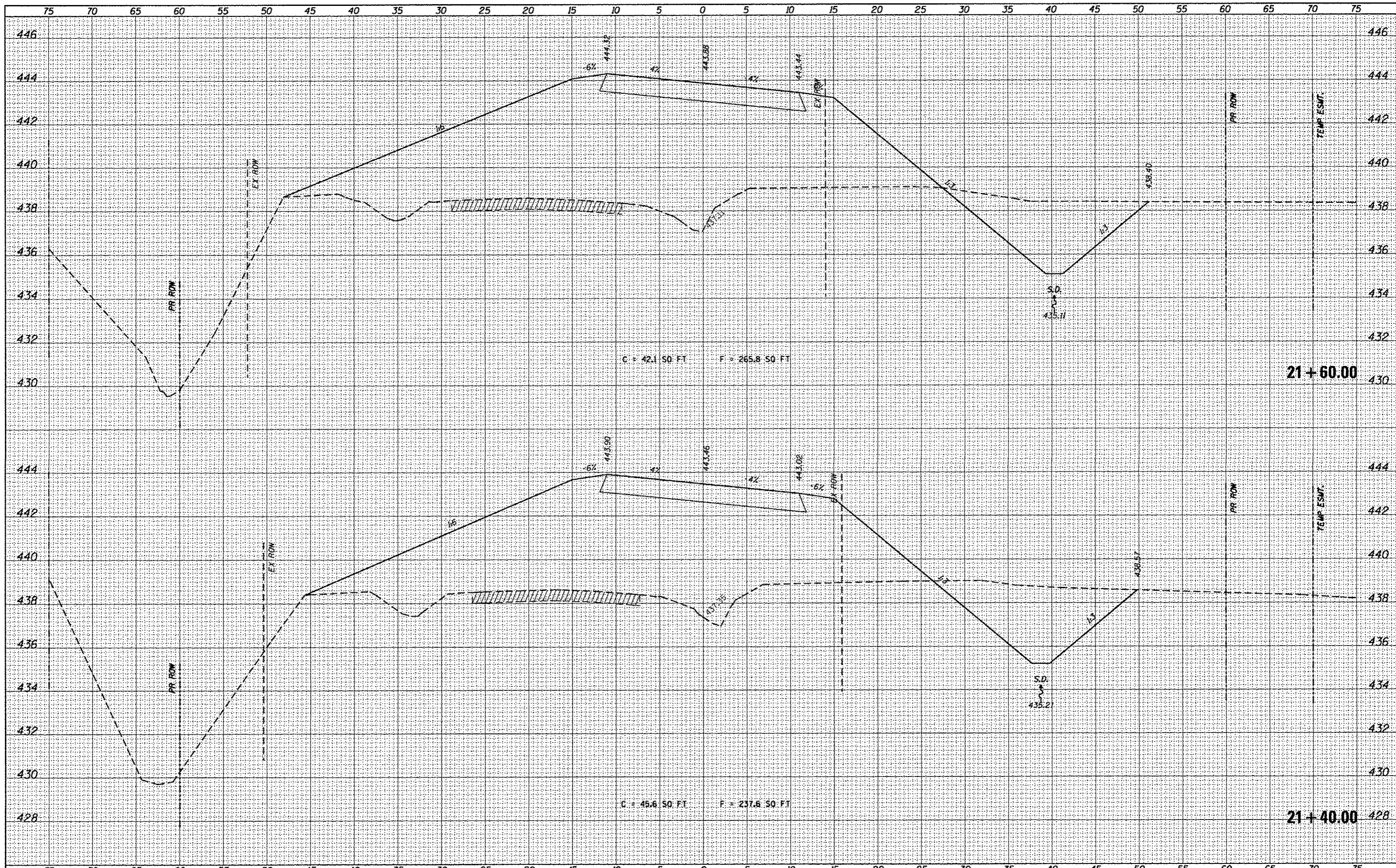


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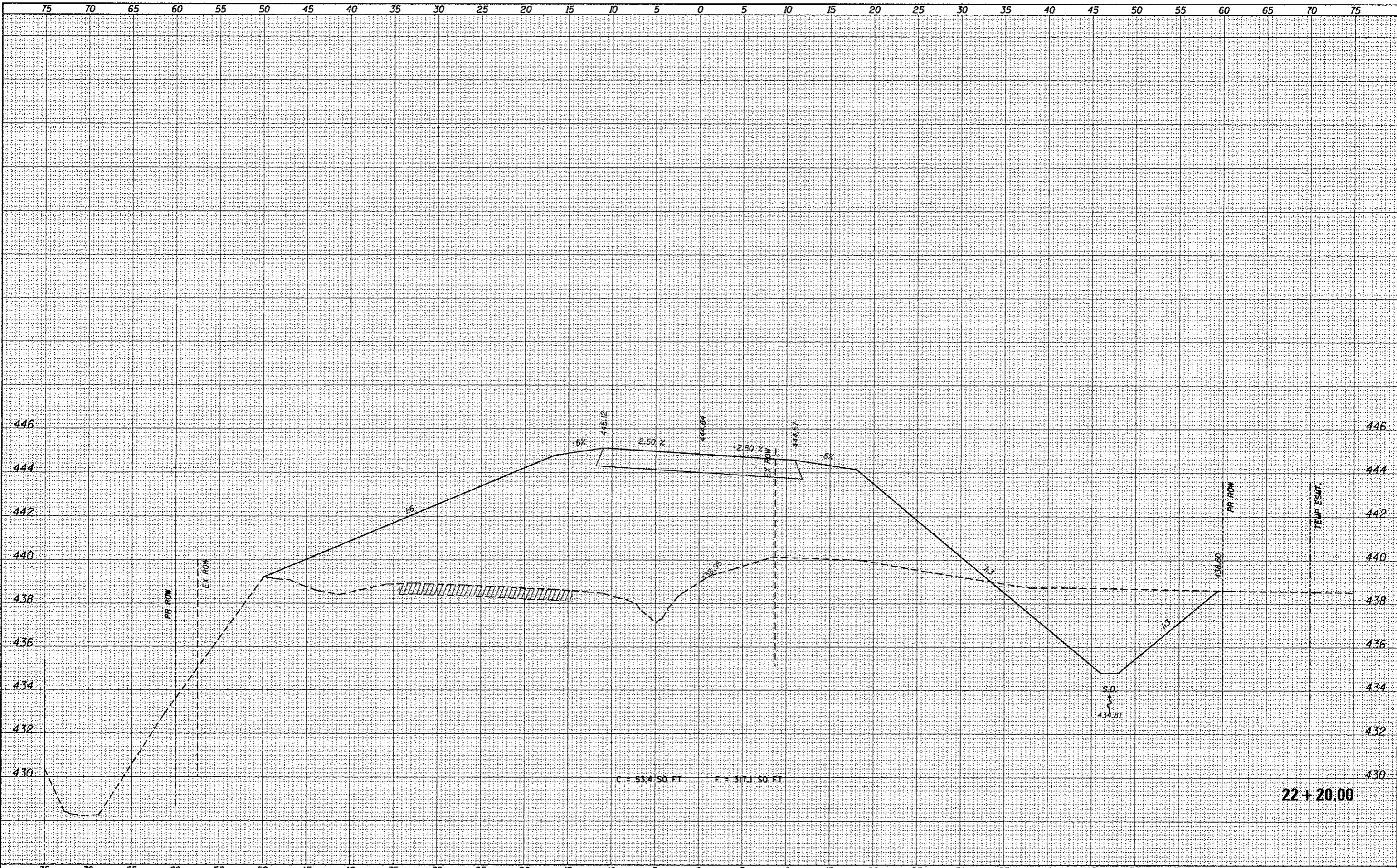




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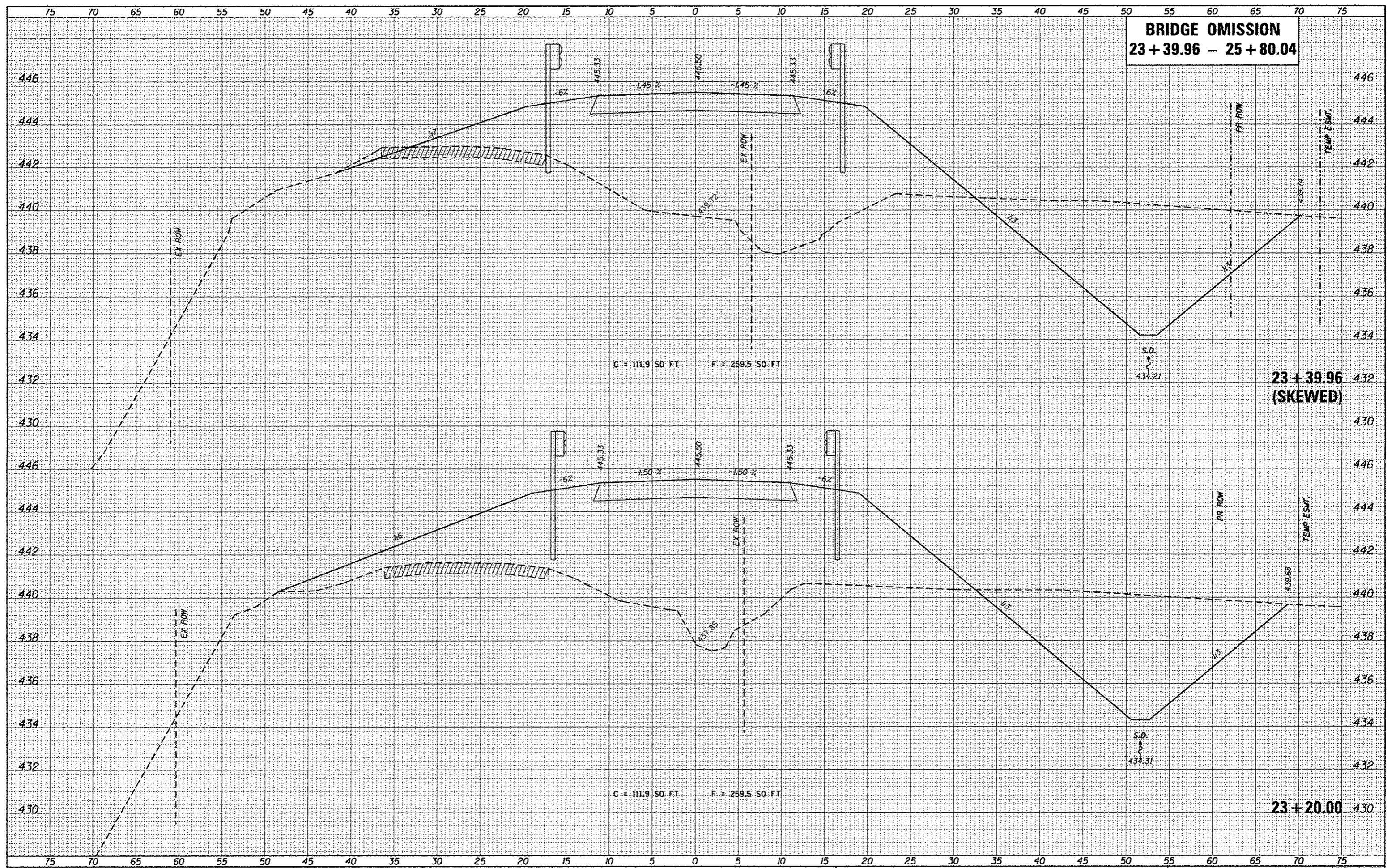
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H:\6848 CC Old State Rd Bridge\CA00 Sheets\6848-SHT-XSSHEET.dgn	hschmidt.john	DRAWN	REVISED			109	12-01114-00-BR	CLINTON	75	47	
PLOT SCALE = 5/8" = 1'		CHECKED	REVISED			CONTRACT NO. 97647		ILLINOIS FED. AID PROJECT			
PLOT DATE = 3/16/2017		DATE	REVISED			SCALE	SHEET	OF	SHEETS	STA. 22+20.00	TO STA. 22+20.00







**BRIDGE OMISSION**  
**23 + 39.96 - 25 + 80.04**



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 PLOT SCALE = 5.0000" / 1"  
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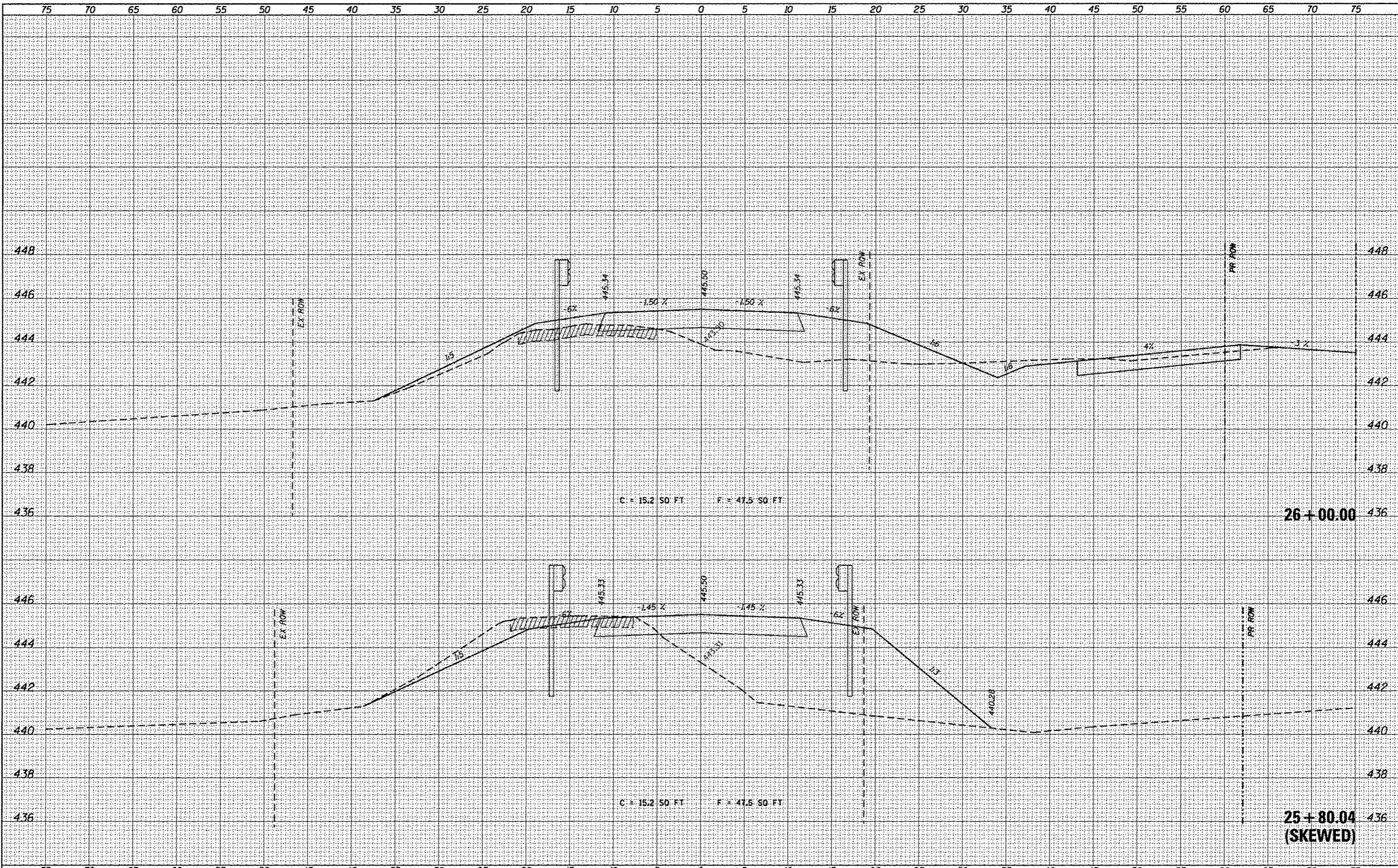
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS-SECTIONS**  
 SCALE: SHEET OF SHEETS STA. 23+20.00 TO STA. 23+40.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
109	12-01114-00-BR	CLINTON	75	50
			CONTRACT NO. 97647	
ILLINOIS FED. AID PROJECT				



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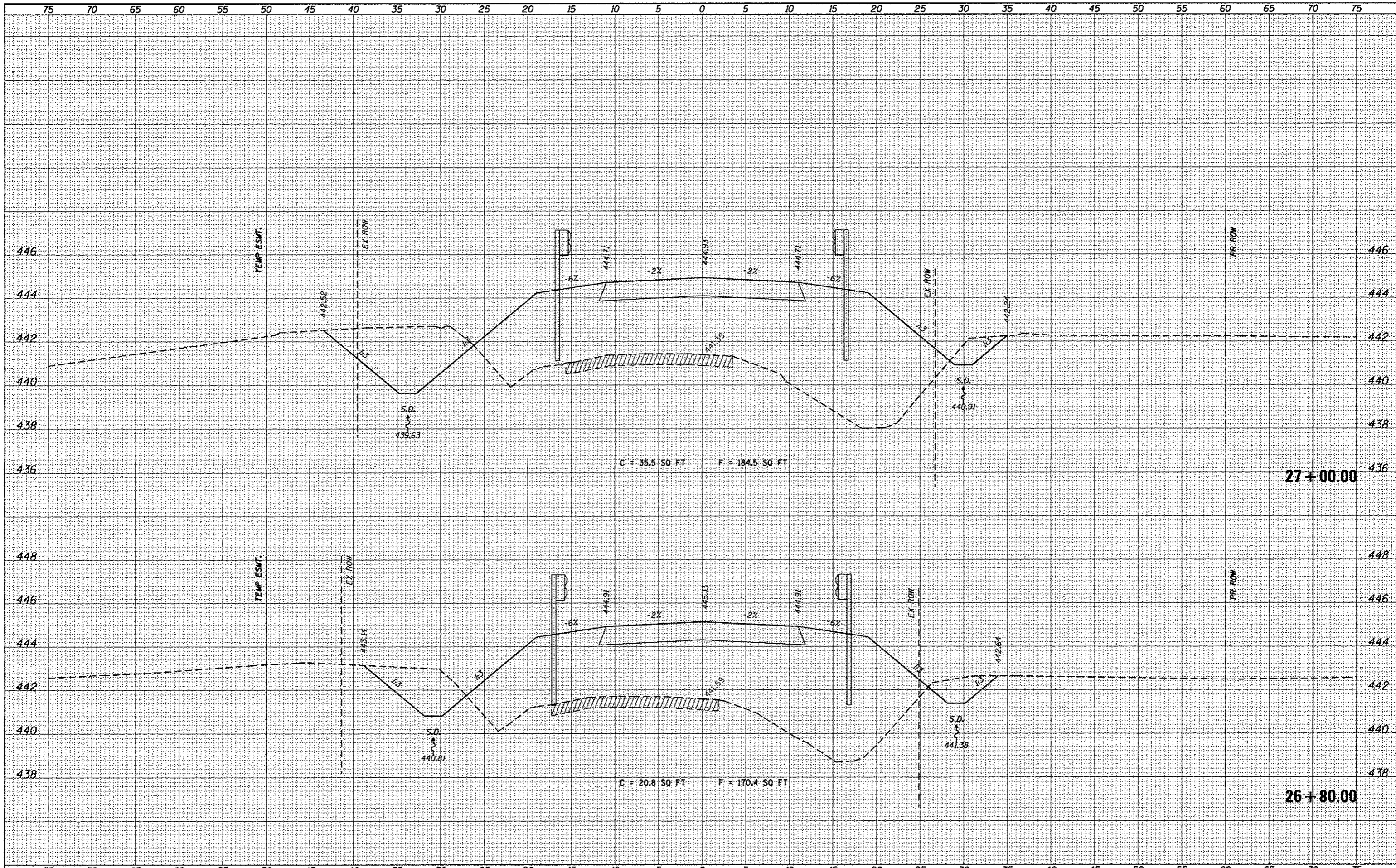
FILE NAME H:\6848 CC Old State Rd Bridge\CADD Sheets\68-SHT-XSSHEET.dgn	USER NAME kashwiarjohn	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS-SECTIONS</b>	TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	PLOT SCALE = 5.0000' / in.	DRAWN -	REVISED -			109	12-0114-00-BR	CLINTON	75	51	
	PLOT DATE = 3/16/2017	CHECKED -	REVISED -			CONTRACT NO. 97647		ILLINOIS FED. AID PROJECT			
		DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA. 25+80.00	TO STA. 26+00.00





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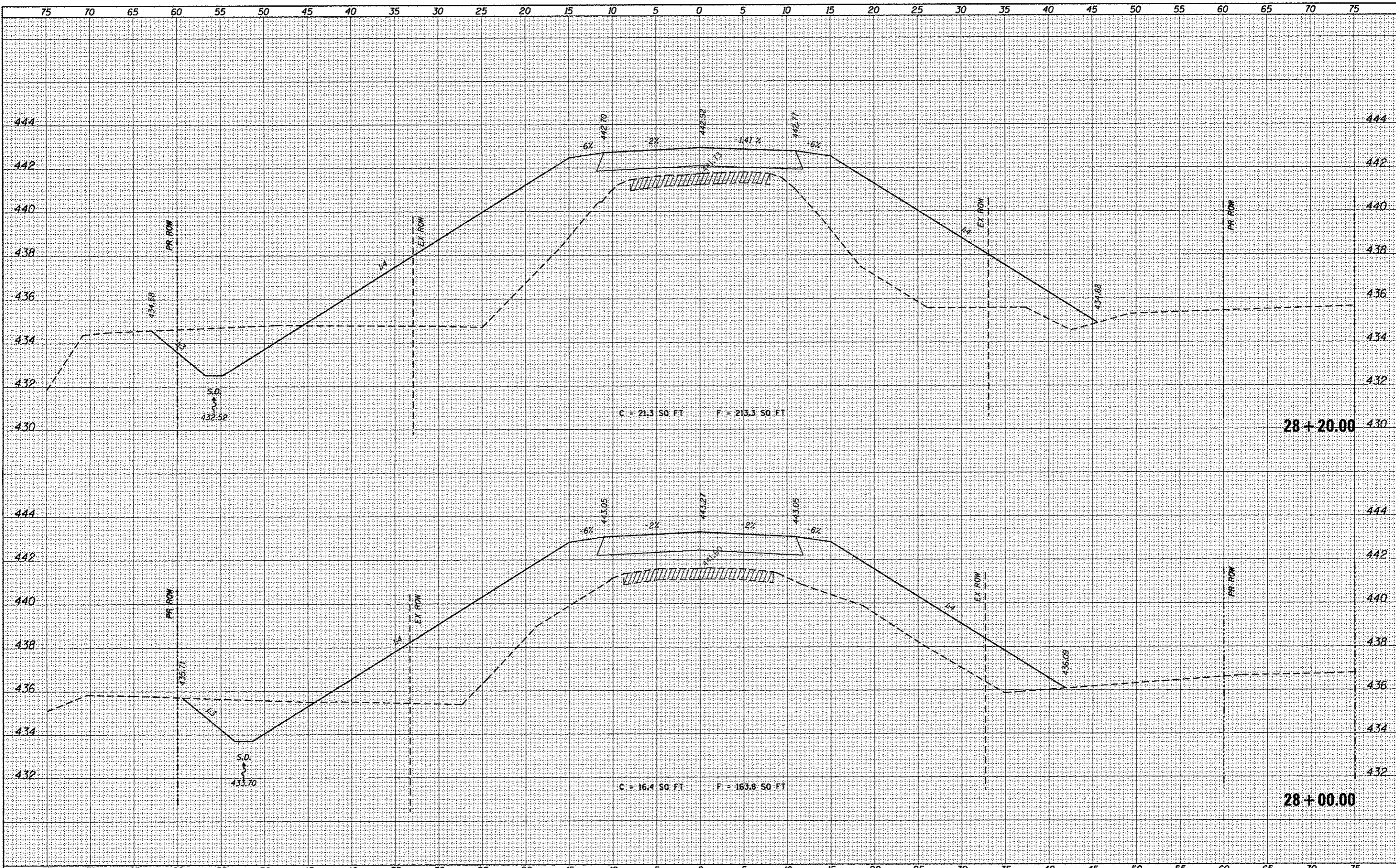


FILE NAME = H:\6846 CC Old State Rd Bridge\CADD Sheets\6846-SHT-XSSHEET.dgn	USER NAME = kashviorjohn	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>CROSS-SECTIONS</b>			TR 109	SECTION 12-01114-00-BR	COUNTY CLINTON	TOTAL SHEETS 75	SHEET NO. 54
PLOT SCALE = 5.0000' / 1" =		DRAWN -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA. 26+80.00	TO STA. 27+00.00	CONTRACT NO. 97647	
PLOT DATE = 3/16/2017		CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
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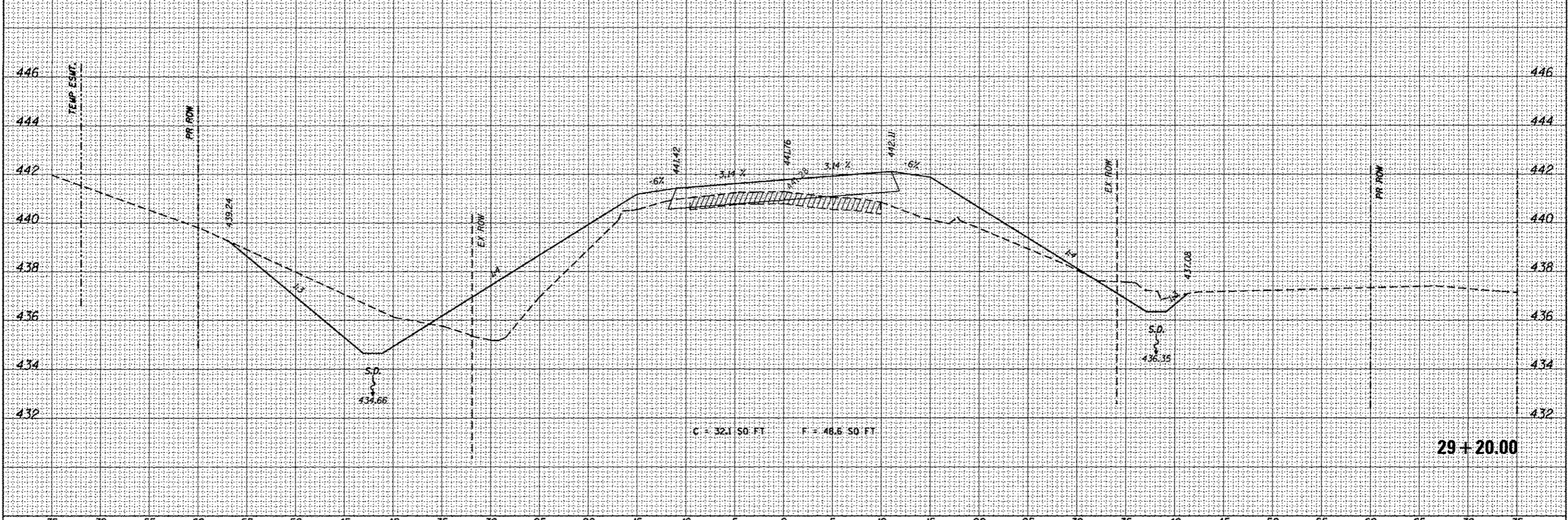
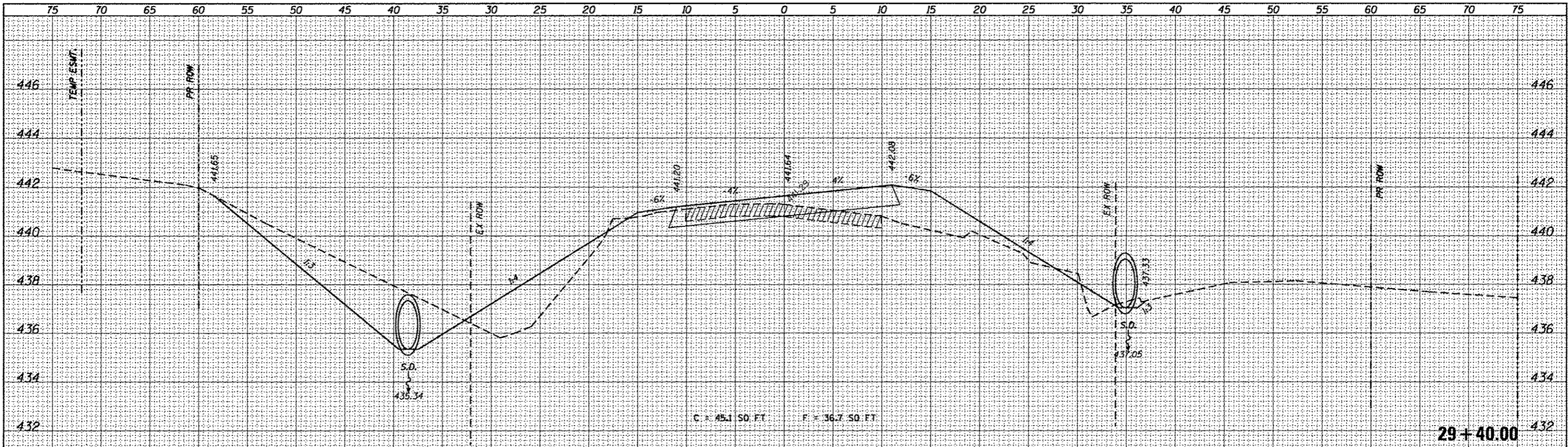


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 USER NAME: kachwiar-john  
 PLOT SCALE: 5.0000" / 1"  
 PLOT DATE: 3/16/2017

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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS  
 SCALE: SHEET OF SHEETS STA. 29+20.00 TO STA. 29+40.00

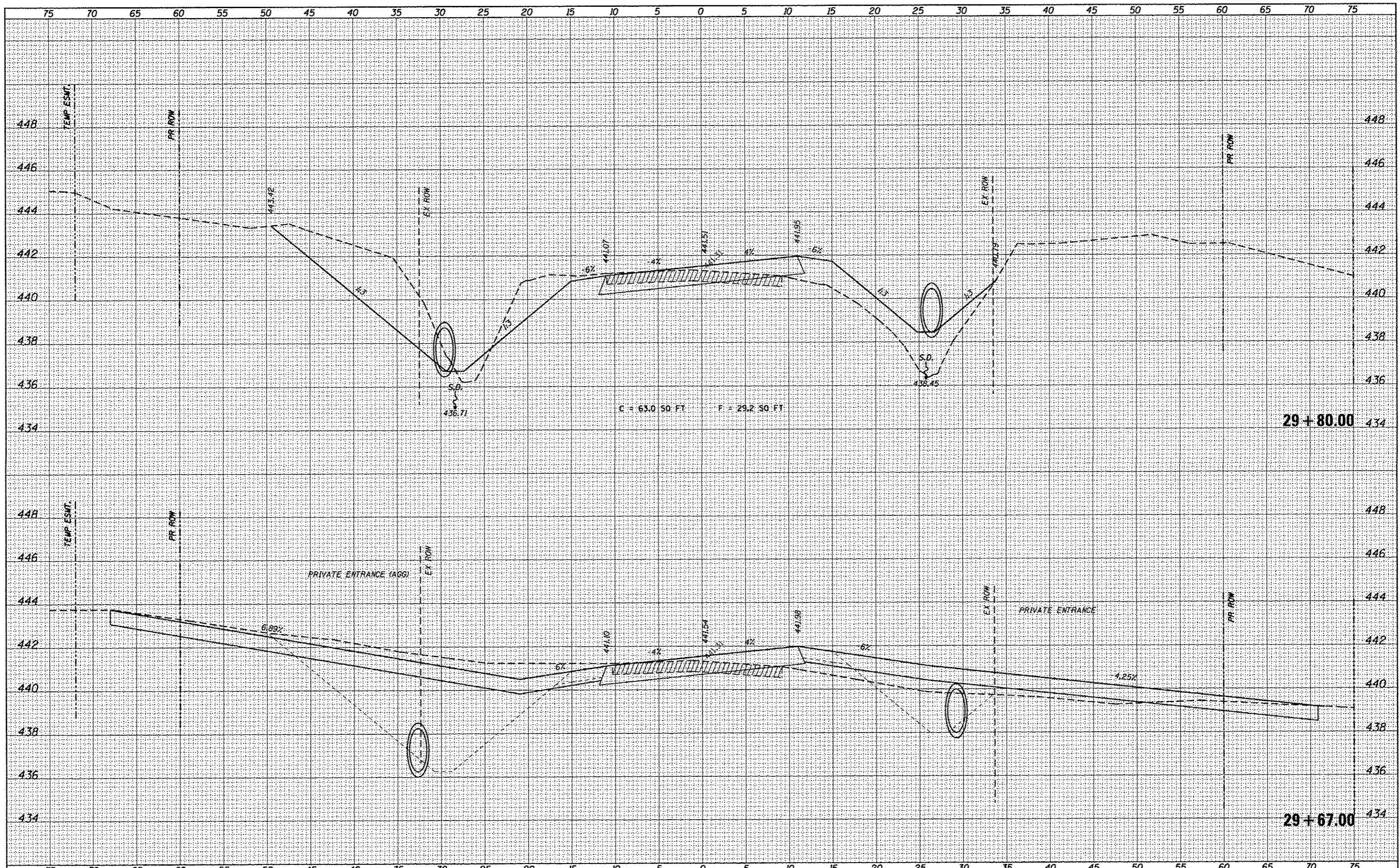
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
109	12-01114-00-BR	CLINTON	75	60

CONTRACT NO. 97647  
 ILLINOIS FED. AID PROJECT

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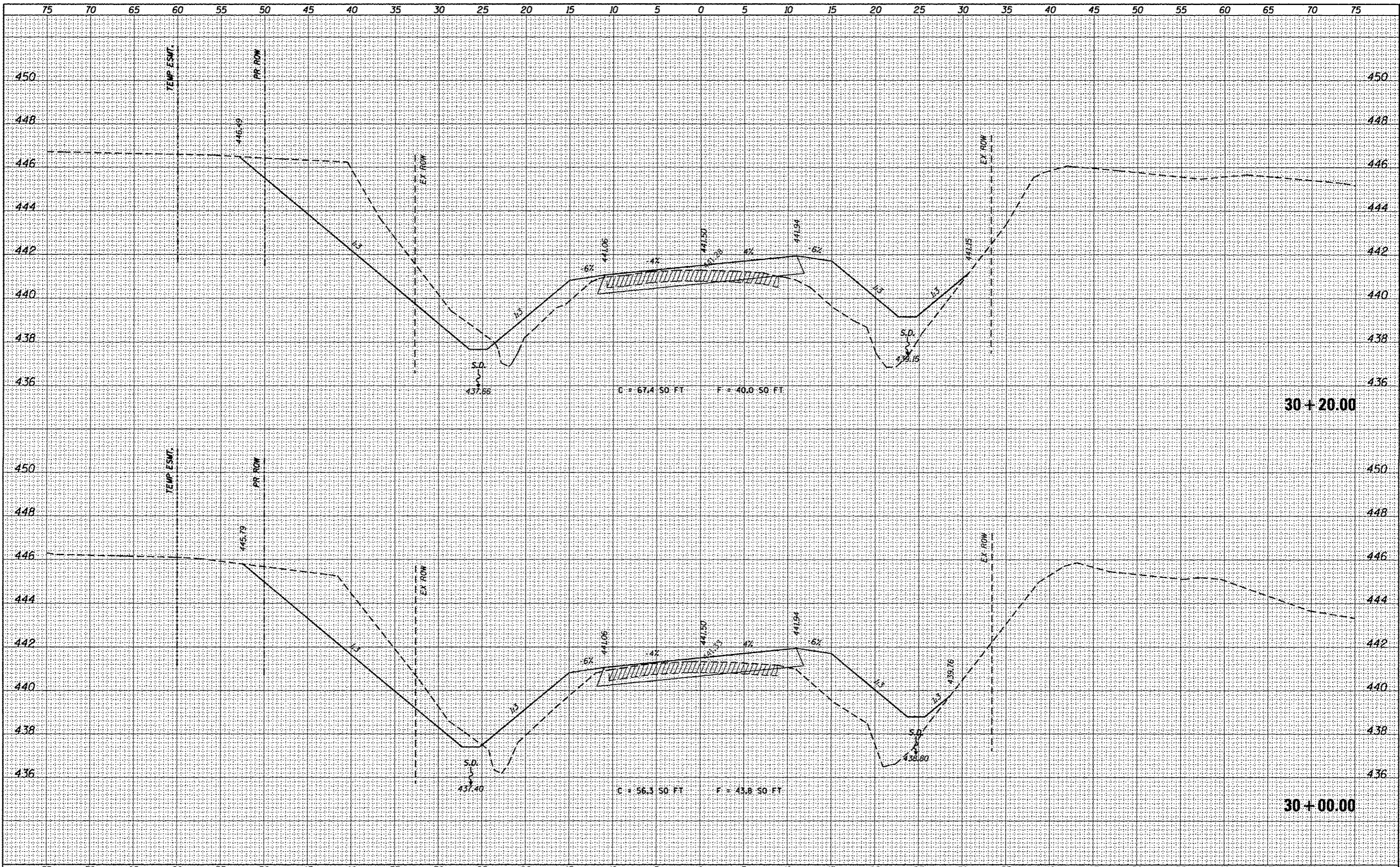
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE	SHEET	OF	SHEETS	STA. 29+67.00	TO	STA. 29+80.00
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TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
109	12-01114-00-BR	CLINTON	75	62
CONTRACT NO. 97647				
ILLINOIS FED. AID PROJECT				



30+20.00

30+00.00

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		CHECKED -	REVISED -
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PLOT SCALE = 5.0000" / 1"	
PLOT DATE = 3/16/2017	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

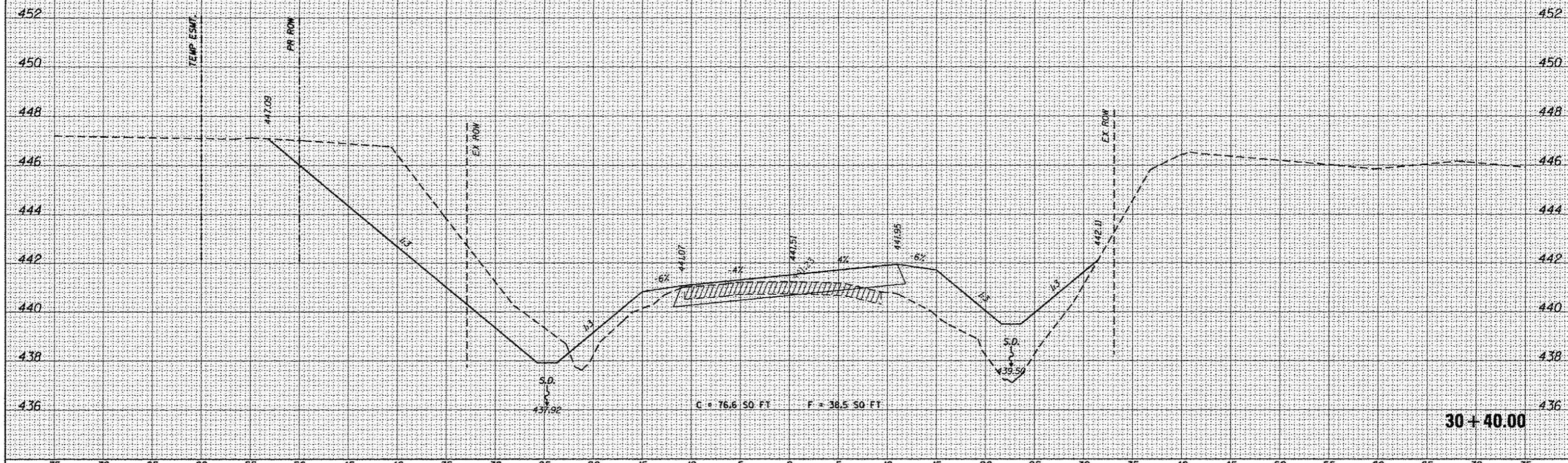
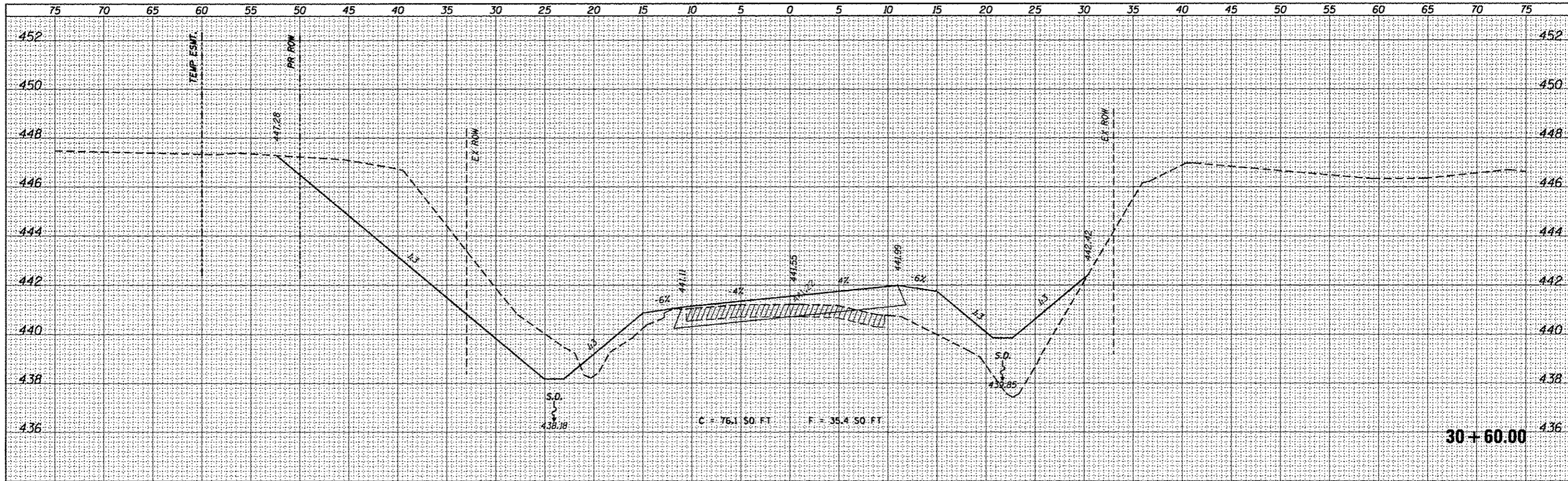
CROSS-SECTIONS

SCALE: SHEET OF SHEETS STA. 30+00.00 TO STA. 30+20.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
109	12-01114-00-BR	CLINTON	75	63
				CONTRACT NO. 97647
ILLINOIS FED. AID PROJECT				

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FILE NAME	USER NAME	DESIGNED	REVISED
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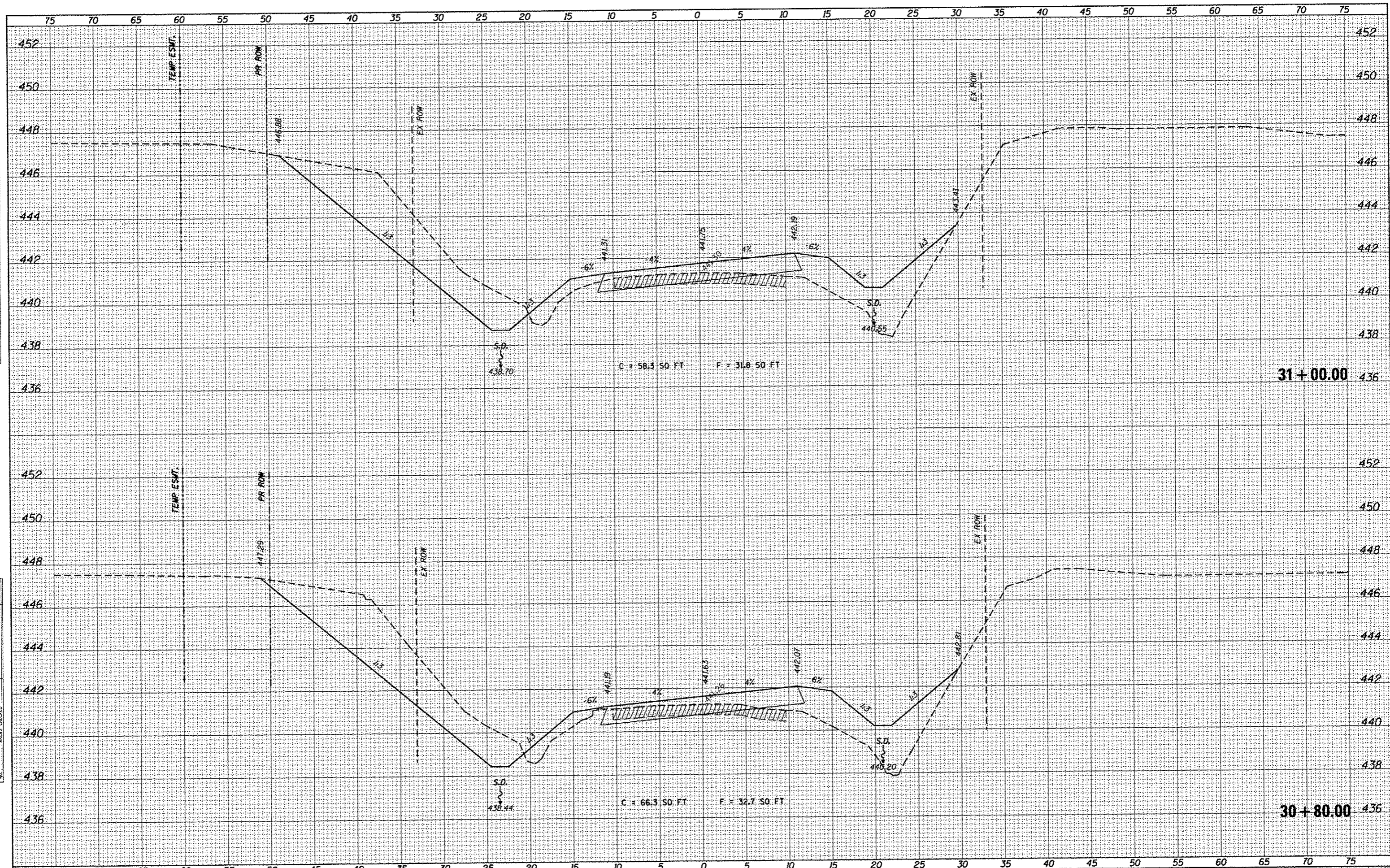
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE	SHEET	OF	SHEETS	STA. 30+40.00	TO	STA. 30+60.00
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TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
109	12-01114-00-BR	CLINTON	75	64
CONTRACT NO. 97647			ILLINOIS FED. AID PROJECT	





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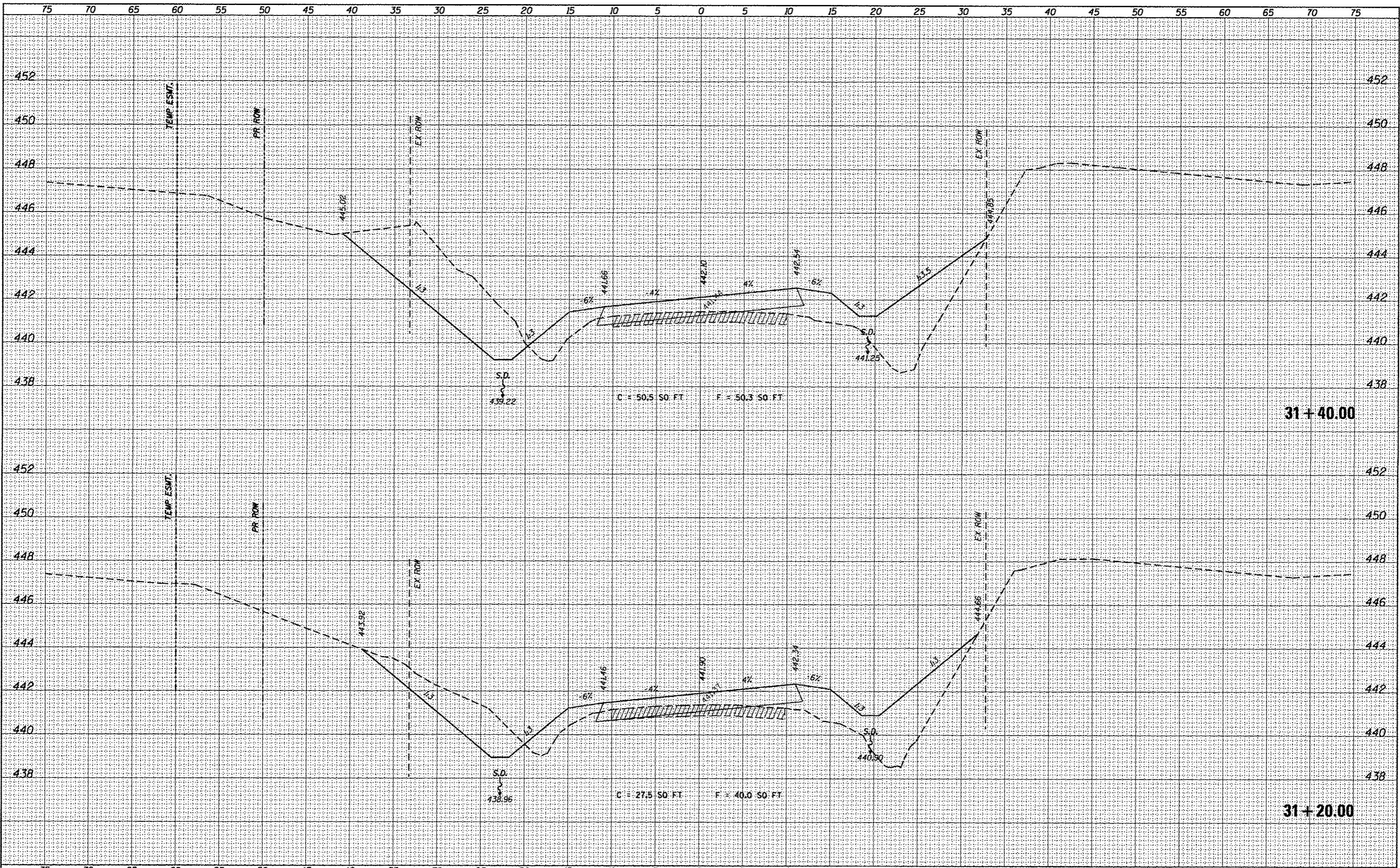
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS-SECTIONS**

SCALE: SHEET OF SHEETS STA. 30+80.00 TO STA. 31+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
109	12-01114-00-BR	CLINTON	75	65
			CONTRACT NO. 97647	

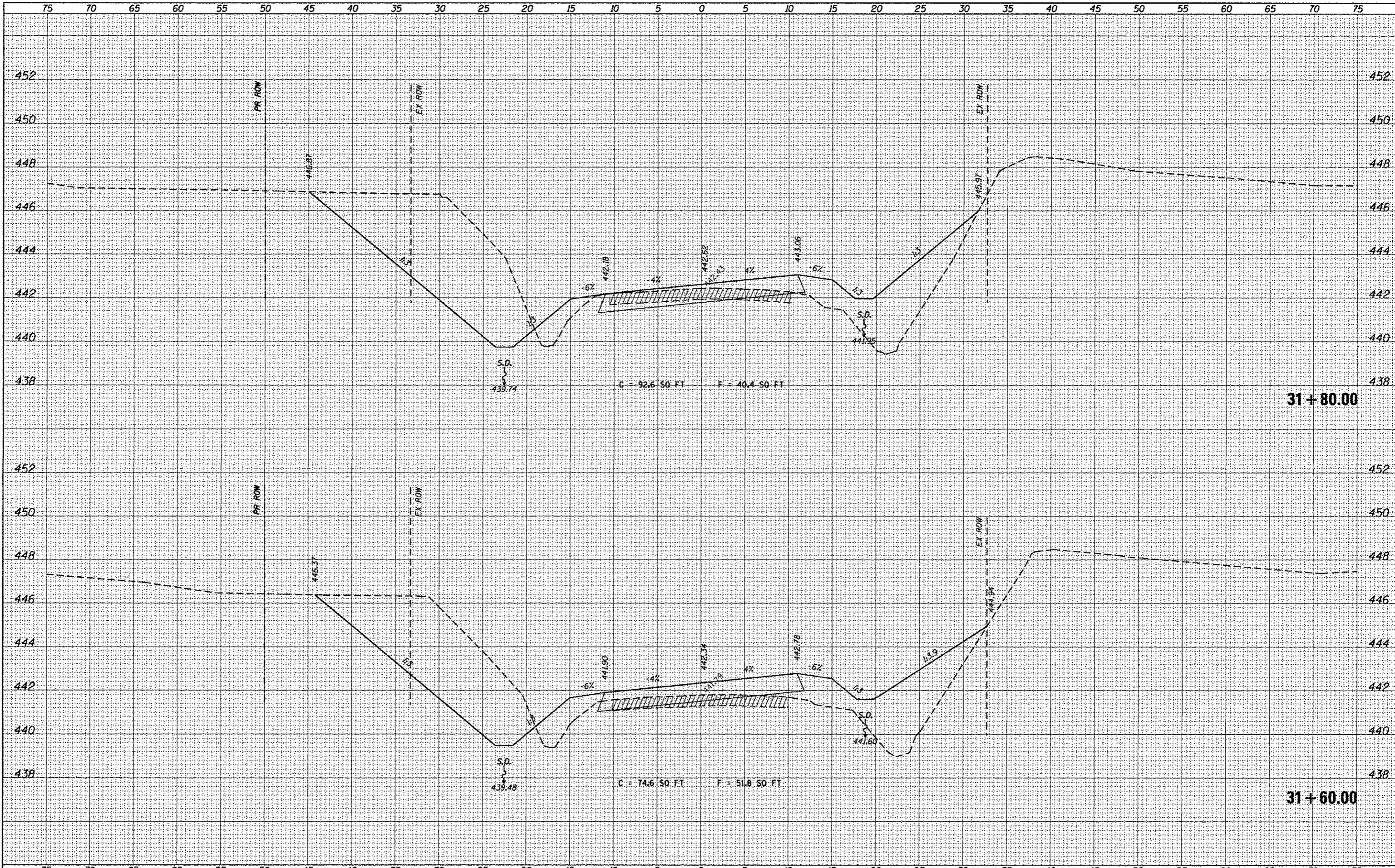
ILLINOIS FED. AID PROJECT



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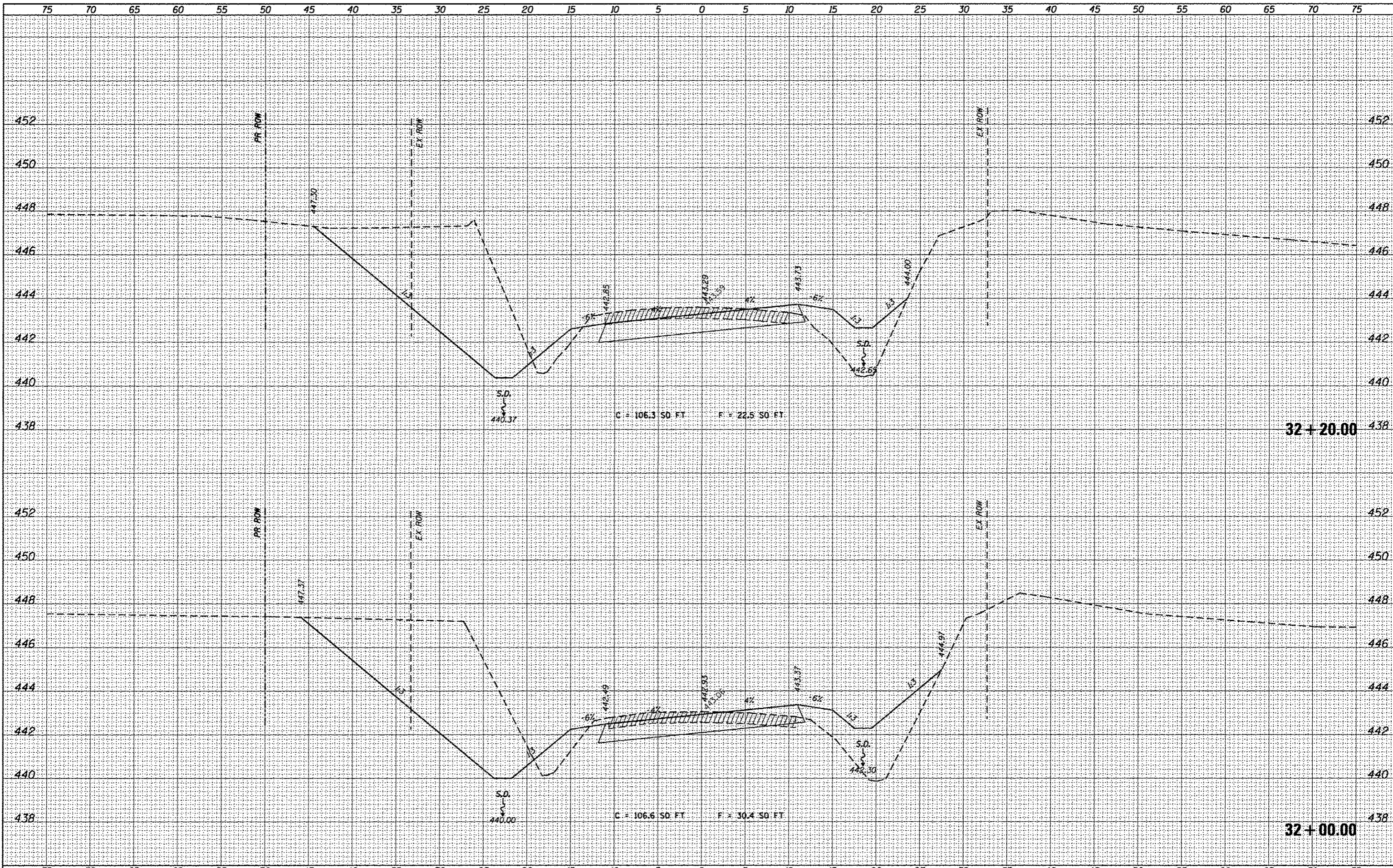
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PLOT SCALE = 5.0000' / 1"	DRAWN -	REVISED -	109			12-01114-00-BR	CLINTON	75	66	
PLOT DATE = 3/16/2017	CHECKED -	REVISED -	CONTRACT NO. 97647							
DATE -	REVISED -	ILLINOIS FED. AID PROJECT								
SCALE: SHEET OF SHEETS STA. 31+20.00 TO STA. 31+40.00										



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FILE NAME	USER NAME	DESIGNED	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		CROSS-SECTIONS		TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
H:\6848 CC Old State Rd Bridge\CADD Sheets\6848-SHT-XSSHEET.dgn	kashwanjohn	-	-					109	12-01114-00-BR	CLINTON	75	67
Default	PLOT SCALE = 5.0000' / in.	CHECKED	REVISED							CONTRACT NO. 97647		
	PLOT DATE = 3/16/2017	DATE	REVISED					SCALE	SHEET	OF	SHEETS	STA. 31+60.00 TO STA. 31+80.00
								ILLINOIS FED. AID PROJECT				



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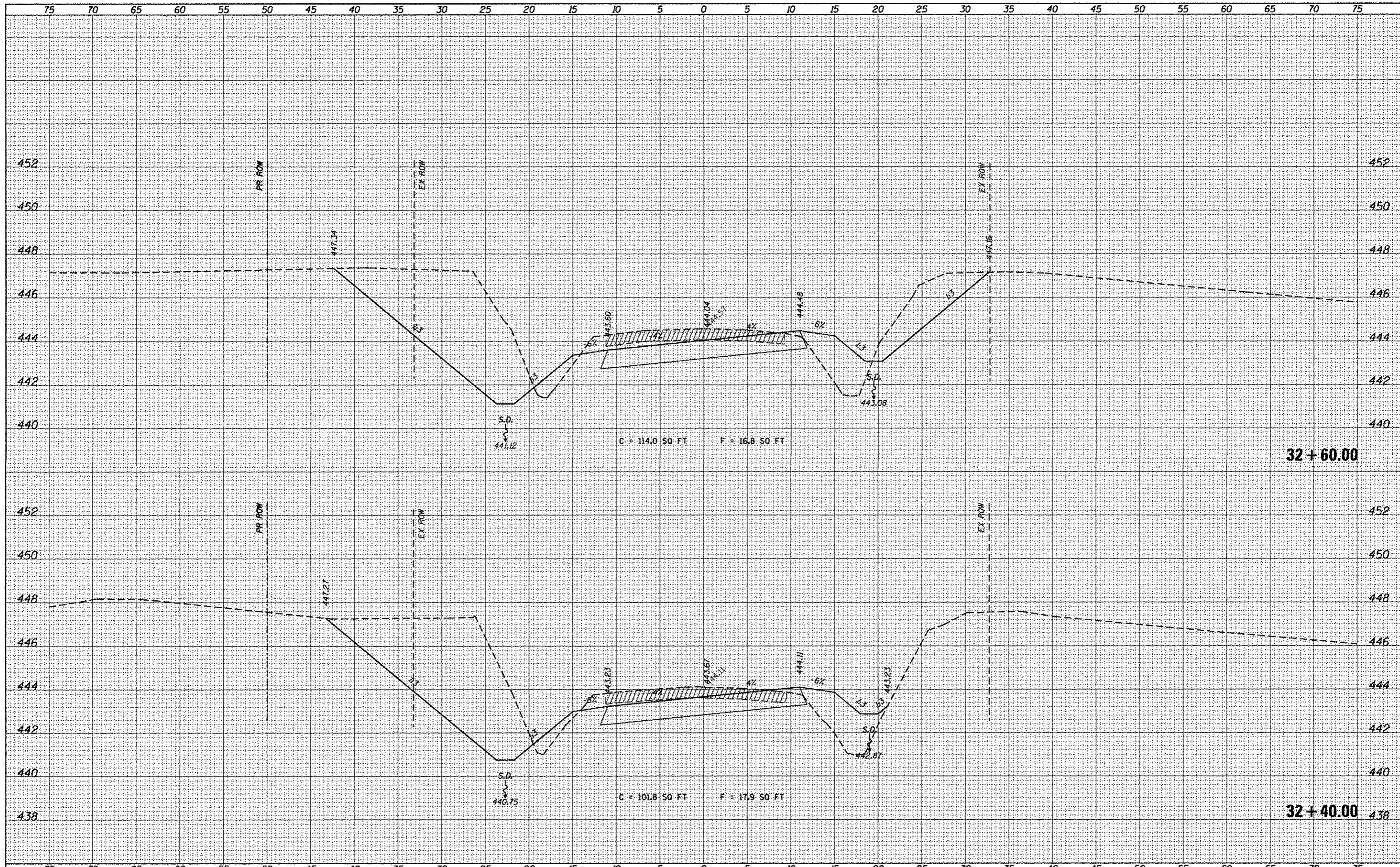
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS-SECTIONS  
 SCALE: SHEET OF SHEETS STA. 32+00.00 TO STA. 32+20.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
109	12-01114-00-BR	CLINTON	75	68
CONTRACT NO. 97647			ILLINOIS FED. AID PROJECT	

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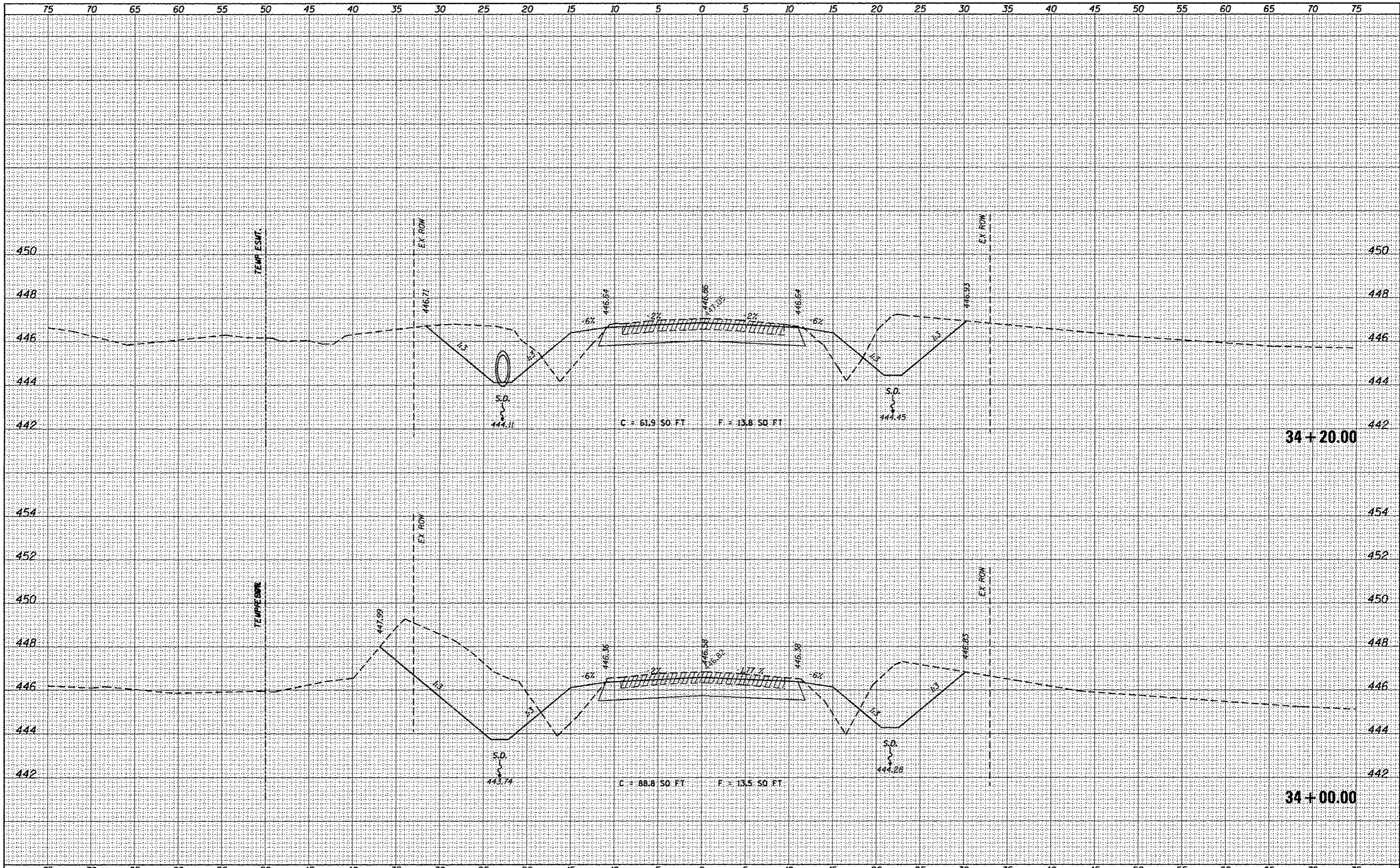
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PLOT SCALE: 5.0000' / 1"		DRAWN: -	REVISED: -		SCALE: SHEET OF SHEETS	STA. 32+40.00	TO STA. 32+60.00	CONTRACT NO. 97647 [ILLINOIS] FED. AID PROJECT					
PLOT DATE: 3/16/2017		CHECKED: -	REVISED: -										
		DATE: -	REVISED: -										







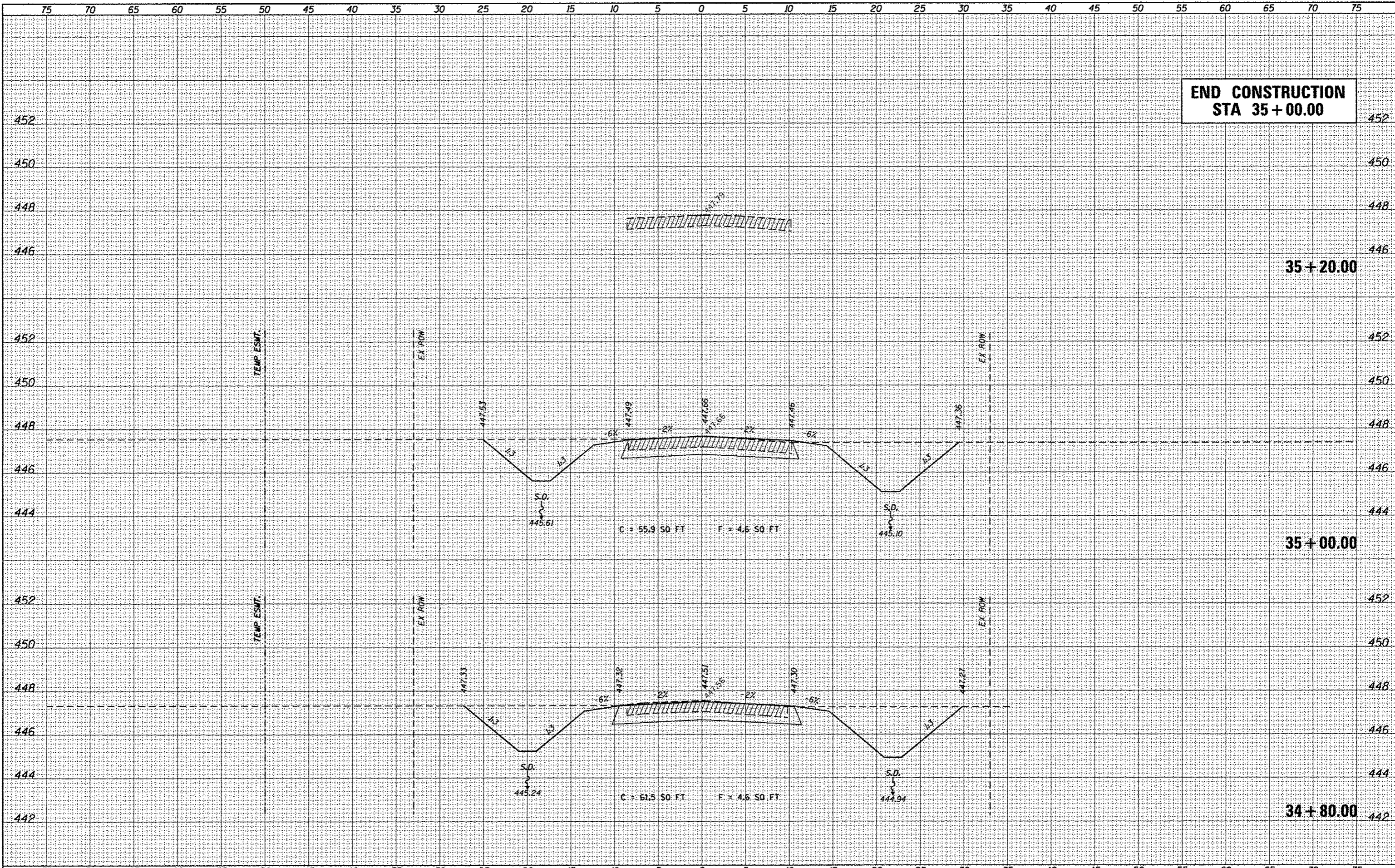




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END CONSTRUCTION  
STA 35+00.00

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DESIGNED	
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CHECKED	
DATE	
FILE NAME	
USER NAME	
DESIGNED	
DRAWN	
CHECKED	
DATE	