

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 74	14-20101-00-BR	IROQUOIS	37	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO.	87691	

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3-4.	TYPICAL CROSS SECTIONS
5-7.	PLAN AND PROFILE SHEETS
8.	GUARDRAIL & SHOULDER LAYOUT
9-19.	BRIDGE PLANS
20-21.	BORINGS
22-26.	EXISTING STRUCTURE PLANS
27-37.	STATION CROSS SECTIONS

HIGHWAY STANDARDS:

000001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-03	NAME PLATE FOR BRIDGES
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 27-1	TRAFFIC BARRIER TERMINAL TYPE 5A

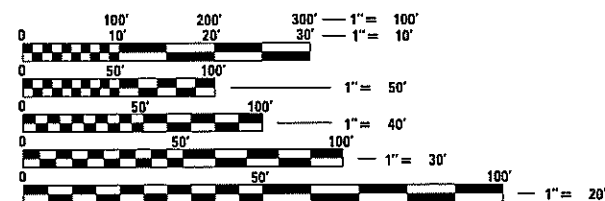
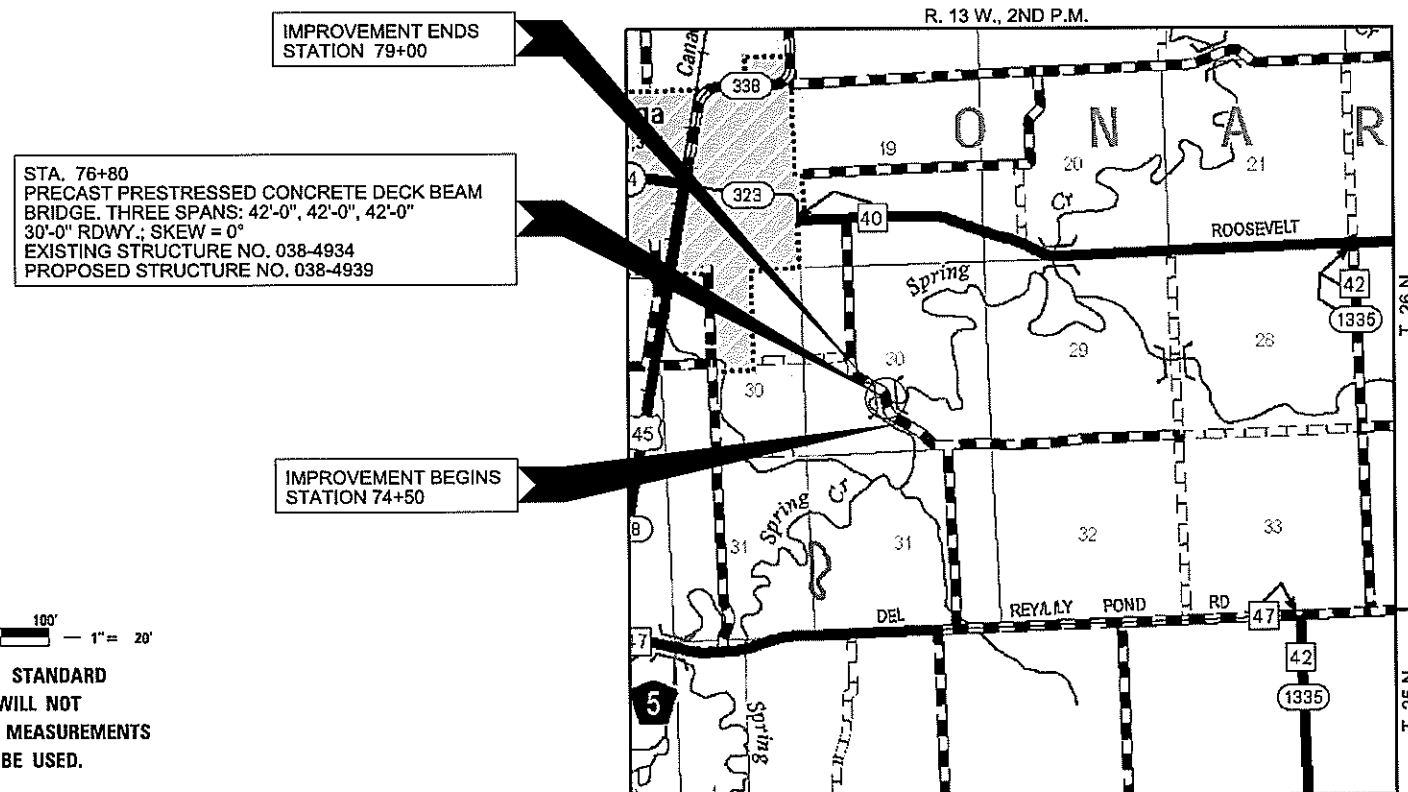
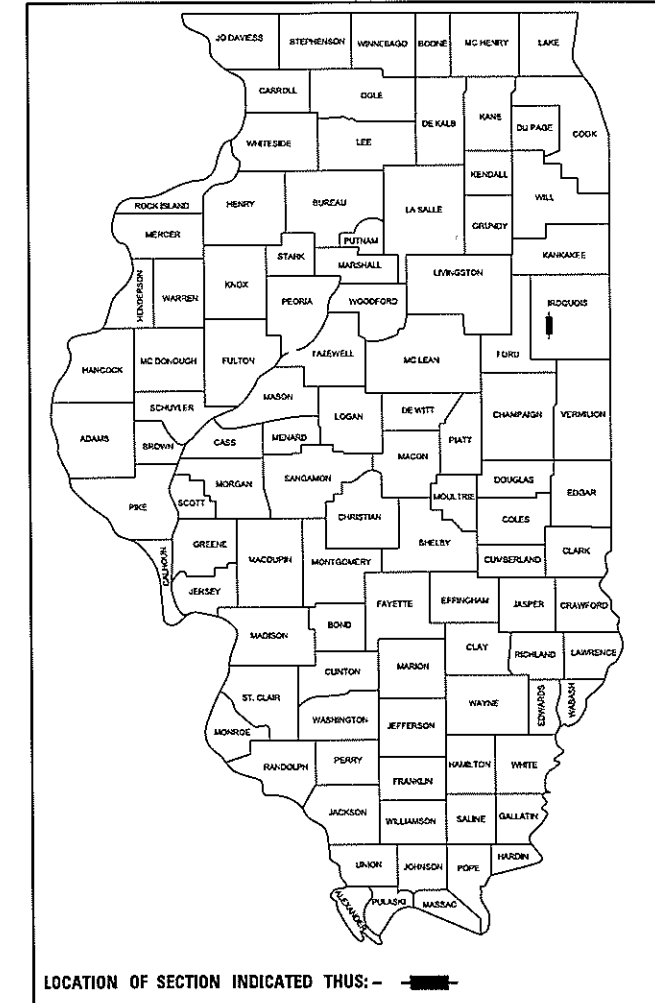
UTILITIES

AT&T
1000 COMMERCE DRIVE
OAK BROOK, IL. 60523

EASTERN ILLINI ELECTRIC CO-OP
330 WEST OTTAWA STREET
PAXTON, IL. 60957

PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM – BRIDGE

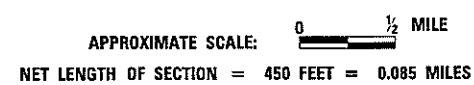
PROJECT 3H7Z(853)
SECTION 14-20101-00-BR
ONARGA ROAD DISTRICT
IROQUOIS COUNTY
T.R. 74 / 1300 N. ROAD
PROPOSED STRUCTURE NO. 038-4939
C-93-006-19



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.

FUNCTIONAL CLASSIFICATION: LOCAL ROAD
DESIGN SPEED: 30 MPH
DESIGN TRAFFIC: 175 ADT

LOCATION MAP



ILLINOIS DEPARTMENT OF TRANSPORTATION

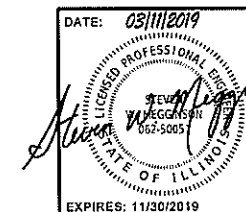
APPROVED March 25, 2019
[Signature]
COUNTY ENGINEER

APPROVED March 25, 2019
[Signature]
TOWNSHIP COMMISSIONER

PASSED 4/2 2019
[Signature]
DISTRICT THREE ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review
4/2 2019
[Signature]
REGION TWO ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DATE: 03/11/2019

HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS • STRUCTURAL ENGINEERS • LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3400 www.hlrengineering.com

SUMMARY OF QUANTITIES

CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0011	
		UNIT	TOTAL
20100110	TREE REMOVAL (6-15 UNITS DIAMETER)	UNIT	75
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	150
20200100	EARTH EXCAVATION	CU YD	330
20300100	CHANNEL EXCAVATION	CU YD	365
28100209	STONE RIPRAP, CLASS A5	TON	820
28200200	FILTER FABRIC	SQ YD	608
35101400	AGGREGATE BASE COURSE, TYPE B	TON	688
48101200	AGGREGATE SHOULDERS, TYPE B	TON	143
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50201101	COFFERDAM (TYPE 1)(LOCATION - 1)	EACH	1
50201102	COFFERDAM (TYPE 1)(LOCATION - 2)	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	133.2
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	3,780
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	8,380
* 50900205	STEEL RAILING, TYPE S1	FOOT	260
51201400	FURNISHING STEEL PILES HP10X42	FOOT	1,045
51202305	DRIVING PILES	FOOT	1,045
51203400	TEST PILE STEEL HP10x42	EACH	2
51500100	NAME PLATES	EACH	1
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
67100100	MOBILIZATION	L SUM	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
^ X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.25

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
TR 74							
STA. 74+50 TO STA. 76+16.25	160		25.00%	100.00%	120	92	28
STA. 76+16.25 TO STA. 77+43.75		365	25.00%	70.00%	192		192
STA. 77+43.75 TO STA. 79+00	172		25.00%	100.00%	129	36	93
TOTAL	332	365			441	128	313
USE	330	365					315

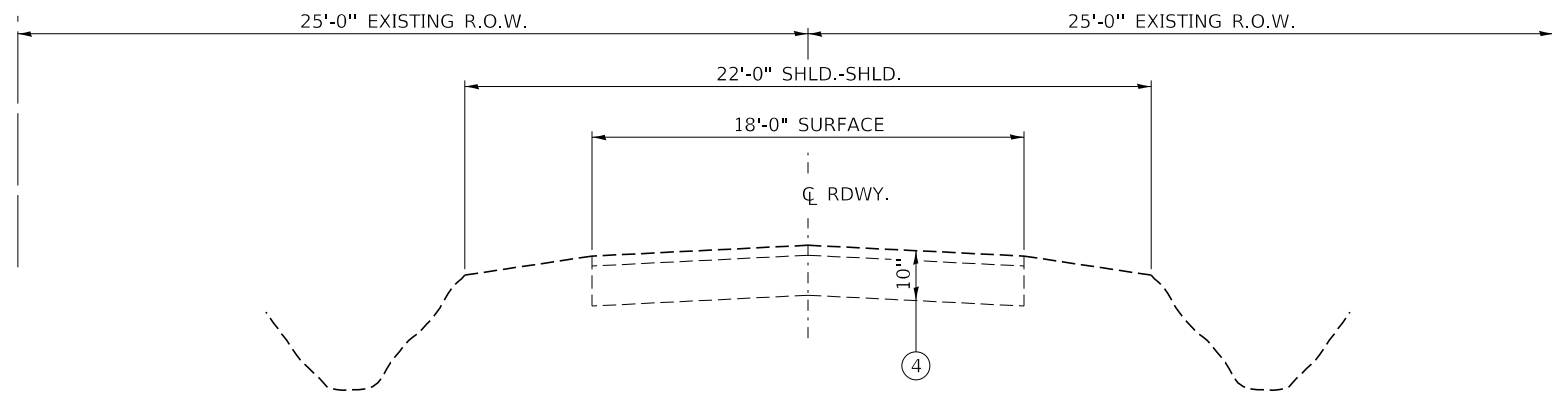
WASTE 315 CU YDS

GENERAL NOTES

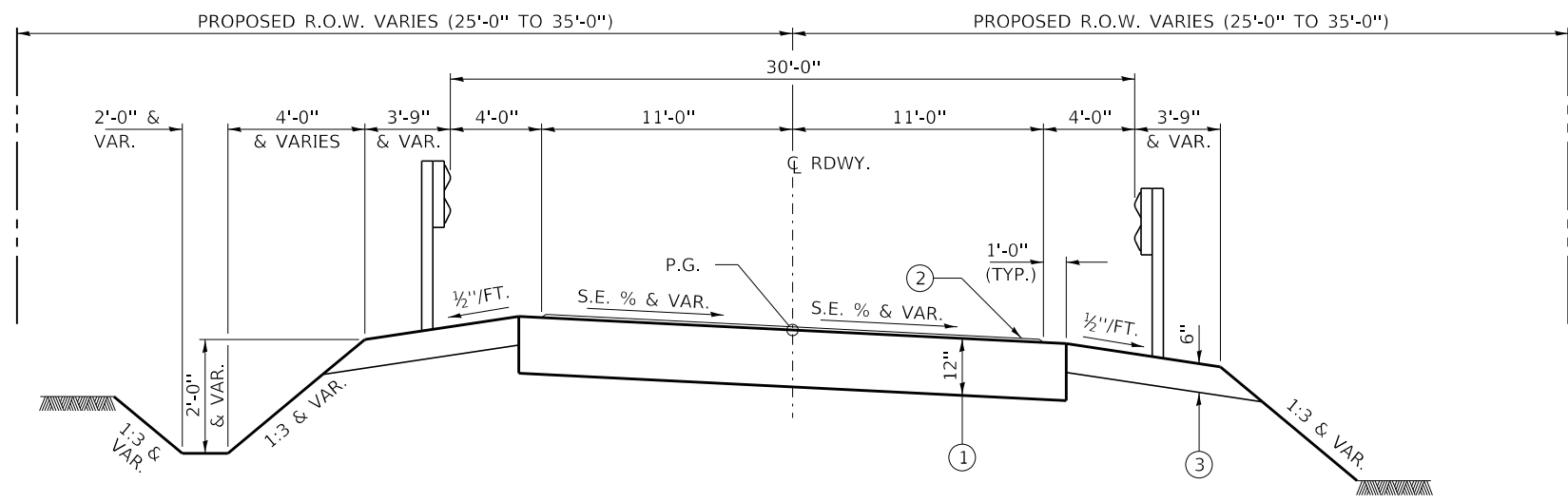
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016", (HERE IN AFTER REFERRED TO AS THE STANDARD SPECIFICATIONS; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2019; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE DOCUMENTS.
- ALL CLEARING, GRUBBING, FENCE REMOVAL, PAVEMENT REMOVAL, AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. ALL BITUMINOUS MATERIAL SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. REMOVAL AND DISPOSAL OF BITUMINOUS MATERIAL SHALL BE INCLUDED INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF THE DEPARTMENT.
- THE LOCATION ON THE PLANS OF EXISTING DRAINAGE STRUCTURES, TELEPHONE LINES, ELECTRIC LINES, WATER SERVICE LINES, GAS MAINS, AND OTHER UTILITY FACILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES
 AGGREGATE BASE COURSE 2.05 TON/CU YD
 STONE RIPRAP 1.75 TON/CU YD
- THE FINAL SURFACE OF ALL EMBANKMENT AREAS SHALL BE SEEDED. THE TOP 4 INCHES OF THE SEEDED AREAS SHALL BE TOPSOIL SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING TOP SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. SEEDING, CLASS 2 (SPECIAL) = 0.25 ACRES
- ALL WASTE MATERIAL FROM EXCAVATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- COMMITMENTS:
 1) TREES GREATER THAN 3" DIAMETER WILL NOT BE REMOVED BETWEEN APRIL 1 THROUGH SEPTEMBER 30.
 2) A BAT ASSESSMENT SHALL BE CONDUCTED IF WORK OCCURS TO THE EXISTING STRUCTURE AFTER MAY 25, 2019.

ROADWAY SCHEDULE

LOCATION	AGGREGATE BASE COURSE TYPE B	AGGREGATE BASE COURSE TYPE B (ABUT. BACKFILL)	AGGREGATE SHOULDERS, TYPE B (6")
	TON	TON	TON
TR 74	35101400	35101400	48101200
	TON	TON	TON
STA. 74+50 TO STA. 76+16.25	303	50	73
STA. 77+43.75 TO STA. 79+00	285	50	70
TOTAL	588	100	143



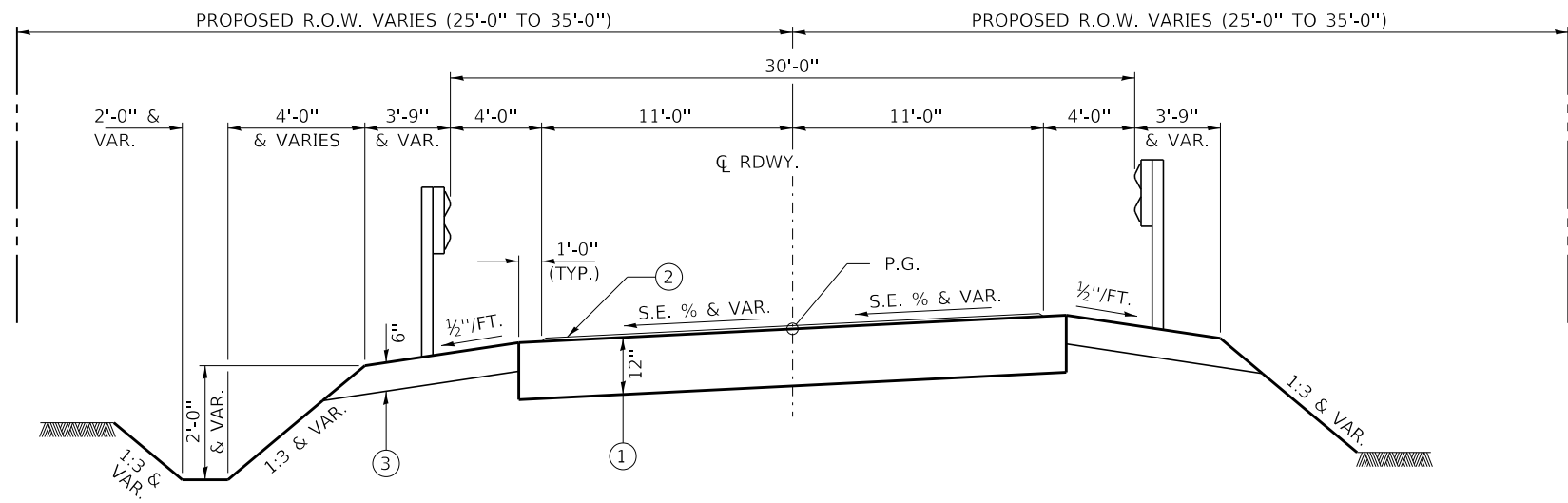
EXISTING TYPICAL CROSS SECTION
STA. 74+50 TO 79+00



SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

PROPOSED TYPICAL CROSS SECTION
STA. 74+50 TO 76+16.25

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS



SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

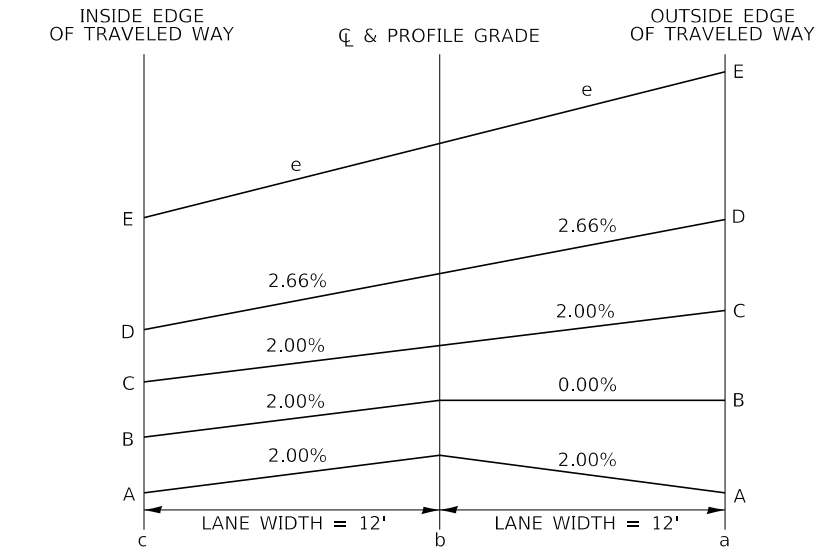
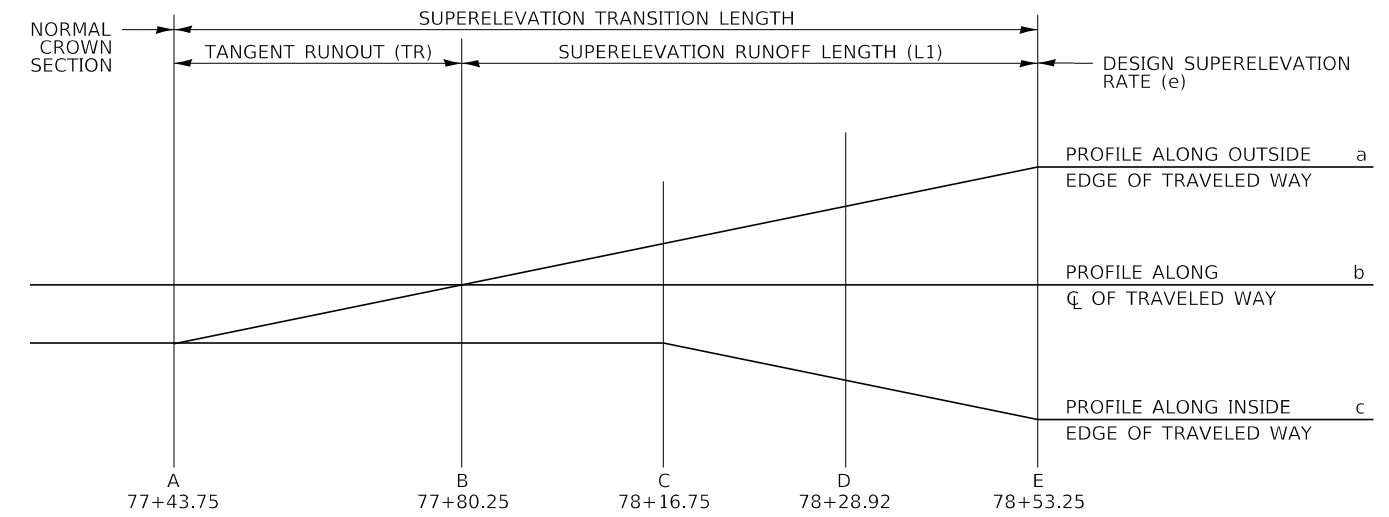
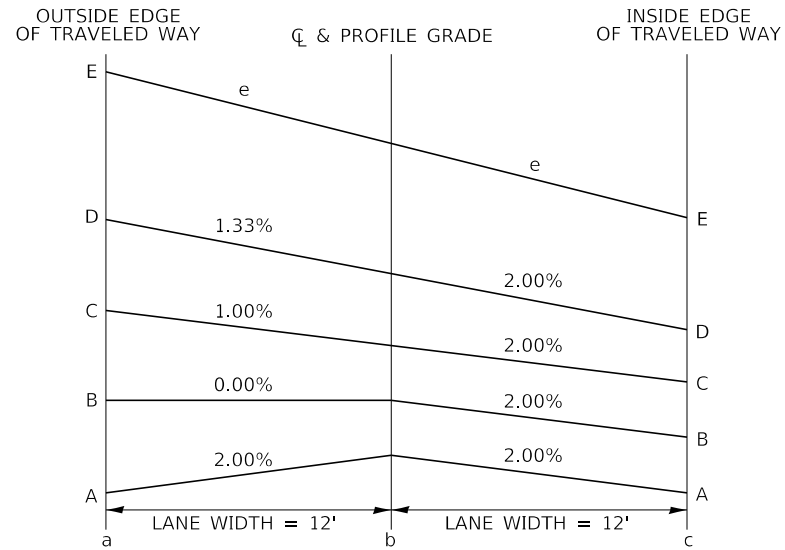
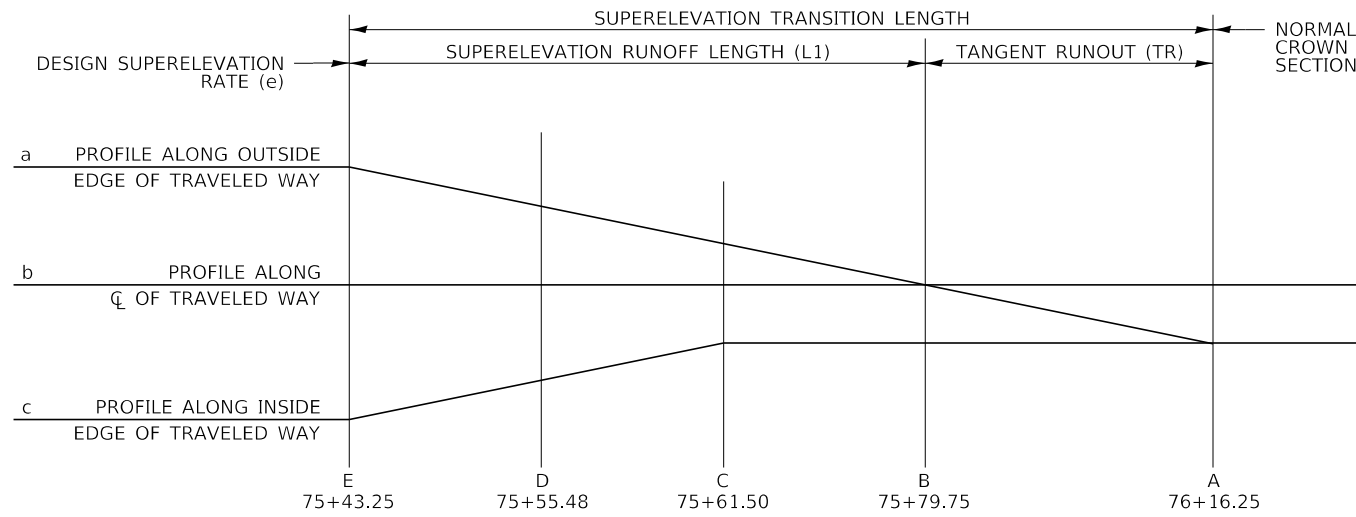
PROPOSED TYPICAL CROSS SECTION
STA. 77+43.75 TO 79+00

SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

LEGEND

- ① AGGREGATE BASE COURSE, TYPE B (12")
- ② FUTURE A-3 SURFACE (BY OTHERS)
- ③ AGGREGATE SHOULDERS, TYPE B 6"
- ④ EXISTING OIL & CHIP SURFACE (2"±) ON AGGREGATE BASE (8"±)

FILE NAME = 150177-sht-typsections.dgn	USER NAME = rhesick	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS IROQUOIS COUNTY HIGHWAY DEPARTMENT	TYPICAL CROSS SECTIONS		T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 154.000959	PLOT SCALE = \$SCALES	DRAWN - M.M.P.	REVISED -				74	14-20101-00-BR	IROQUOIS	37	3	
PLOT DATE = 3/11/2019	DATE - 03/11/19	CHECKED - S.W.M.	REVISED -				ONARGA ROAD DISTRICT		CONTRACT NO. 87691		ILLINOIS	FED. AID PROJECT 3H7Z(853)
		DATE - 03/11/19	REVISED -				SCALE:	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.		



CURVE TR742, P.I. STATION 74+78.97 TRANSITION DETAILS			
R=	950.00	FT	
NC =	2.00	%	
LANE WIDTH=	12	FT.	
CURVE=	RIGHT		
S.E.=	2.00	%	
CURVE STATIONS			
L 1	36.5		
TR	36.5		
PC TRANSITION*		PT TRANSITION	
STATION	SUPERELEVATION	STATION	SUPERELEVATION
	LEFT		LEFT
	RIGHT		RIGHT
74+50.00	-3.34%	E	2.00%
74+73.40	-2.00%	D	1.33%
75+00.00	-0.48%	C	1.00%
75+08.32	0.00%	B	0.00%
75+43.25	2.00%	A	-2.00%

CURVE TR743, P.I. STATION 78+66.75 TRANSITION DETAILS			
R=	300.00	FT	
NC =	2.00	%	
LANE WIDTH=	12	FT.	
CURVE=	LEFT		
S.E.=	4.00	%	
CURVE STATIONS			
L 1	73.0		
TR	36.5		
PC TRANSITION		PT TRANSITION*	
STATION	SUPERELEVATION	STATION	SUPERELEVATION
	LEFT		LEFT
	RIGHT		RIGHT
A	-2.00%	78+53.25	-4.00%
B	-2.00%	78+72.37	-5.21%
C	-2.00%	78+81.93	-5.82%
D	-2.67%	78+96.27	-6.72%
E	-4.00%	79+00.00	-6.96%

SUPERELEVATION TRANSITIONS
NOTE PC TRANSITION SPECIAL TO MATCH EXISTING PAVEMENT

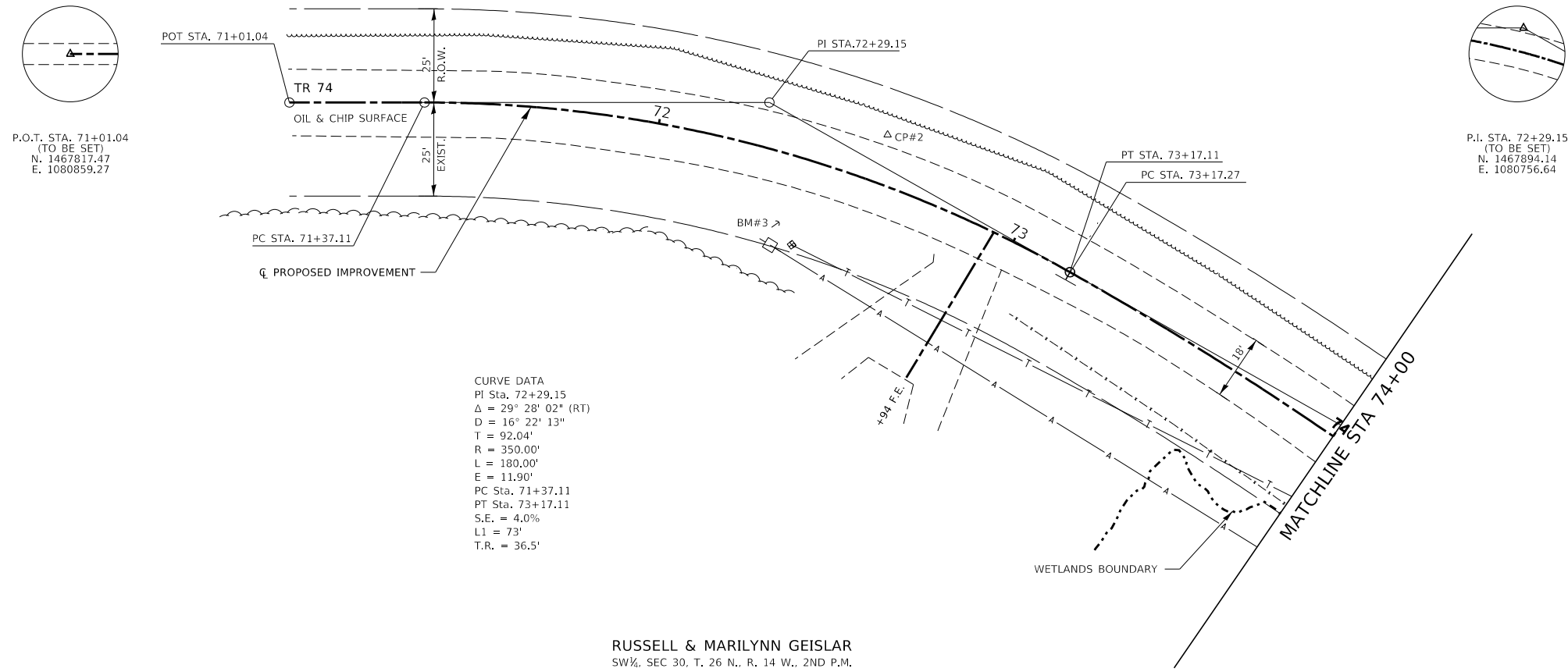
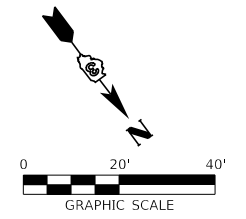
SUPERELEVATION TRANSITIONS
NOTE PT TRANSITION SPECIAL TO MATCH EXISTING PAVEMENT

FILE NAME = 150177-sht-typsections.dgn	USER NAME = rhesick	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - M.M.P.	REVISED -
3085 STEVENSON DRIVE, SUITE 201		CHECKED - S.W.M.	REVISED -
SPRINGFIELD, ILLINOIS 62703		DATE - 03/11/19	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM			
LS / PE / SE CORP. 154.000959			

STATE OF ILLINOIS
IROQUOIS COUNTY HIGHWAY DEPARTMENT

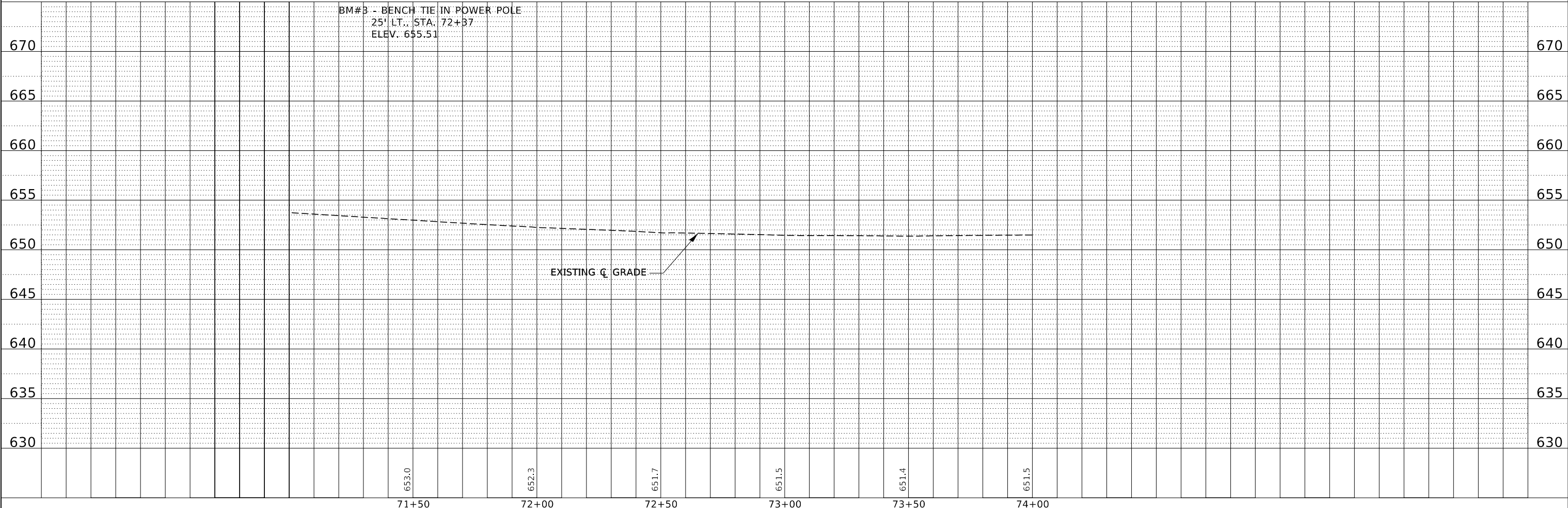
TYPICAL CROSS SECTIONS	
SCALE:	SHEET NO. 2 OF 2 SHEETS
STA.	TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	14-20101-00-BR	IROQUOIS	37	4
ONARGA ROAD DISTRICT		CONTRACT NO. 87691		
ILLINOIS FED. AID PROJECT 3H72(853)				



RUSSELL & MARILYNN GEISLAR
SW¼, SEC 30, T. 26 N., R. 14 W., 2ND P.M.

BM#3 - BENCH TIE IN POWER POLE
25' LT., STA. 72+37
ELEV. 655.51



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATING CHECKED	
	NOTE BOOK NO.	
	BY	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATING CHECKED	
	NOTE BOOK NO.	
	BY	

DATE	
BY	
PLAN	SURVEYED
	PLOTTED
	ALIGNMENT CHECKED
	GRADES CHECKED
	STRUCTURE NOTATING CHECKED
NO.	

DATE	
BY	
PROFILE	SURVEYED
	PLOTTED
	GRADES CHECKED
	STRUCTURE NOTATING CHECKED
NO.	

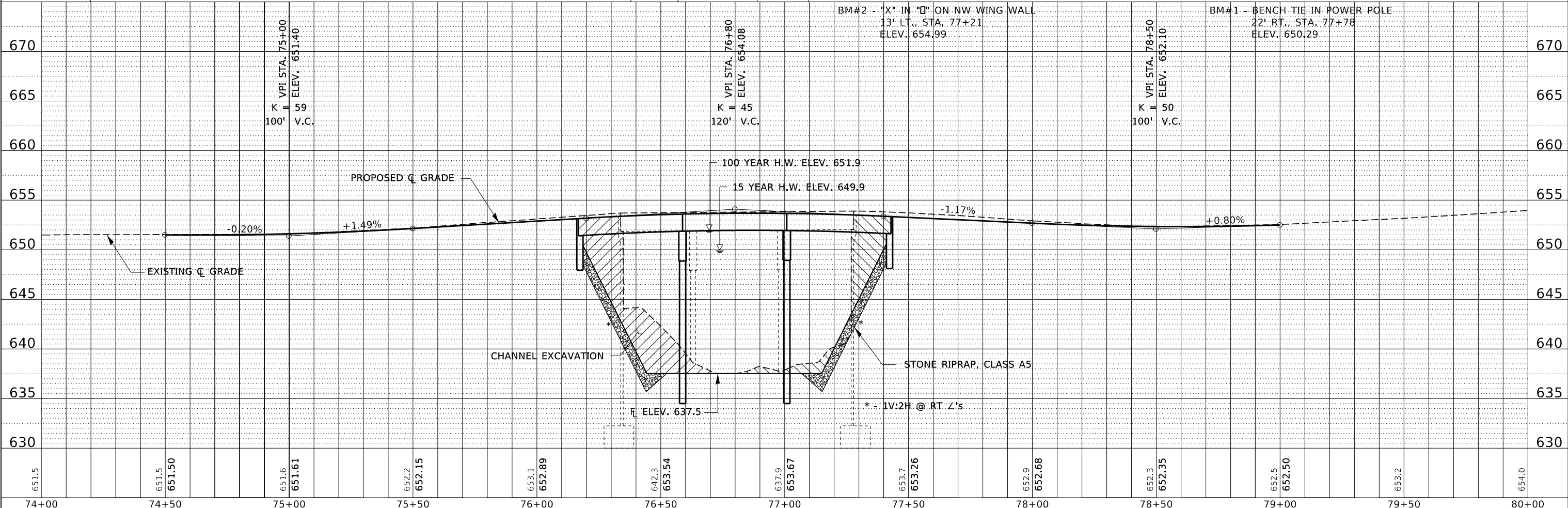
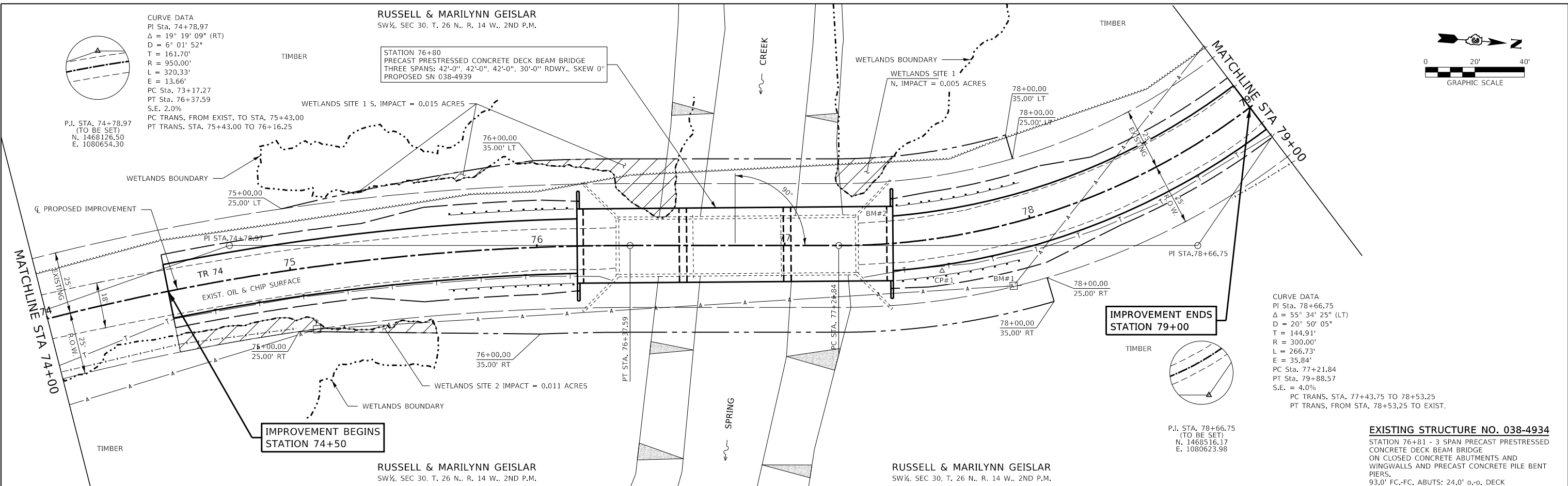
CURVE DATA
 PI Sta. 74+78.97
 $\Delta = 19^\circ 19' 09''$ (RT)
 $D = 6^\circ 01' 52''$
 $T = 161.70'$
 $R = 950.00'$
 $L = 320.33'$
 $E = 13.66'$
 PC Sta. 73+17.27
 PT Sta. 76+37.59
 S.E. = 2.0%
 PC TRANS. FROM EXIST. TO STA. 75+43.00
 PT TRANS. STA. 75+43.00 TO 76+16.25

RUSSELL & MARILYNN GEISLAR
 SW 1/4, SEC 30, T. 26 N., R. 14 W., 2ND P.M.

STATION 76+80
 PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE
 THREE SPANS: 42'-0", 42'-0", 42'-0", 30'-0" RDWY., SKEW 0°
 PROPOSED SN 038-4939

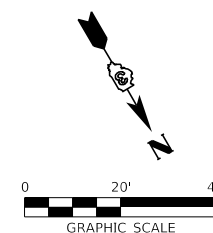
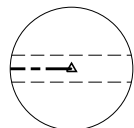
CURVE DATA
 PI Sta. 78+66.75
 $\Delta = 55^\circ 34' 25''$ (LT)
 $D = 20^\circ 50' 05''$
 $T = 144.91'$
 $R = 300.00'$
 $L = 266.73'$
 $E = 35.84'$
 PC Sta. 77+21.84
 PT Sta. 79+88.57
 S.E. = 4.0%
 PC TRANS. STA. 77+43.75 TO 78+53.25
 PT TRANS. FROM STA. 78+53.25 TO EXIST.

EXISTING STRUCTURE NO. 038-4934
 STATION 76+81 - 3 SPAN PRECAST PRESTRESSED
 CONCRETE DECK BEAM BRIDGE
 ON CLOSED CONCRETE ABUTMENTS AND
 WINGWALLS AND PRECAST CONCRETE PILE BENT
 PIERS.
 93.0' FC.-FC. ABUTS; 24.0' o.-o. DECK



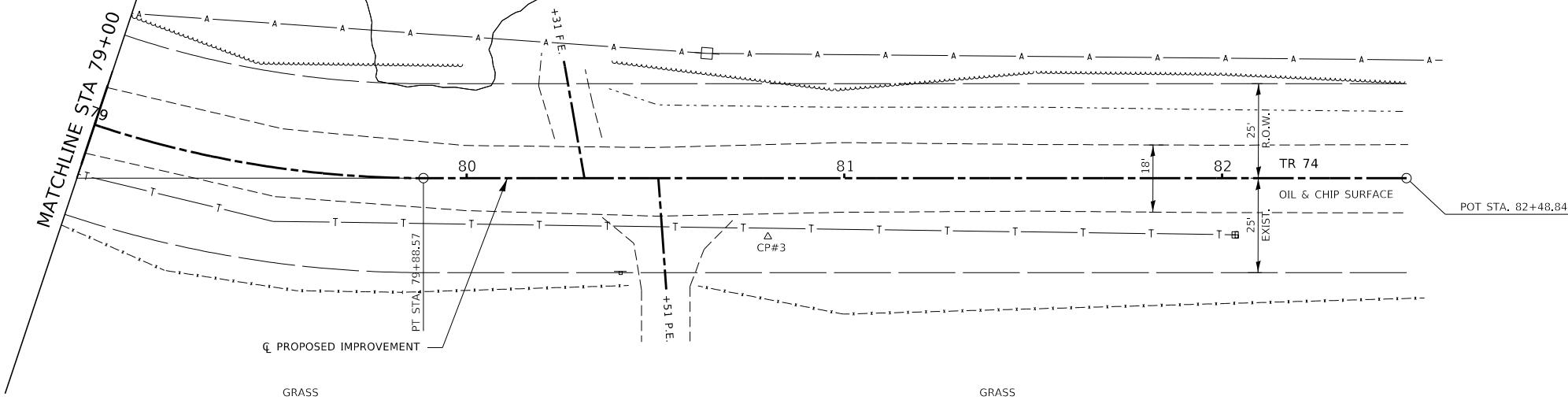
FILE NAME = 150177-shit-p&p.dgn	USER NAME = rhosick	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS IROQUOIS COUNTY HIGHWAY DEPARTMENT	PLAN & PROFILE SCALE: 20H:5V SHEET NO. 2 OF 3 SHEETS STA. 74+00.00 TO STA. 79+00.00	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.	3065 STEVENSON DRIVE, SUITE 201	DRAWN - L.G.C.	REVISED -			74	14-20101-00-BR	IROQUOIS	37	6
3065 STEVENSON DRIVE, SUITE 201	SPRINGFIELD, ILLINOIS 62703	CHECKED - S.W.M.	REVISED -			ONARGA ROAD DISTRICT		CONTRACT NO. 87691		
ILLINOIS PROFESSIONAL DESIGN FIRM	LS / PE / SE CORP. 184.000959	DATE - 03/11/19	REVISED -			ILLINOIS		FED. AID PROJECT 3H72(853)		

RUSSELL & MARILYNN GEISLAR
SW 1/4, SEC 30, T. 26 N., R. 14 W., 2ND P.M.

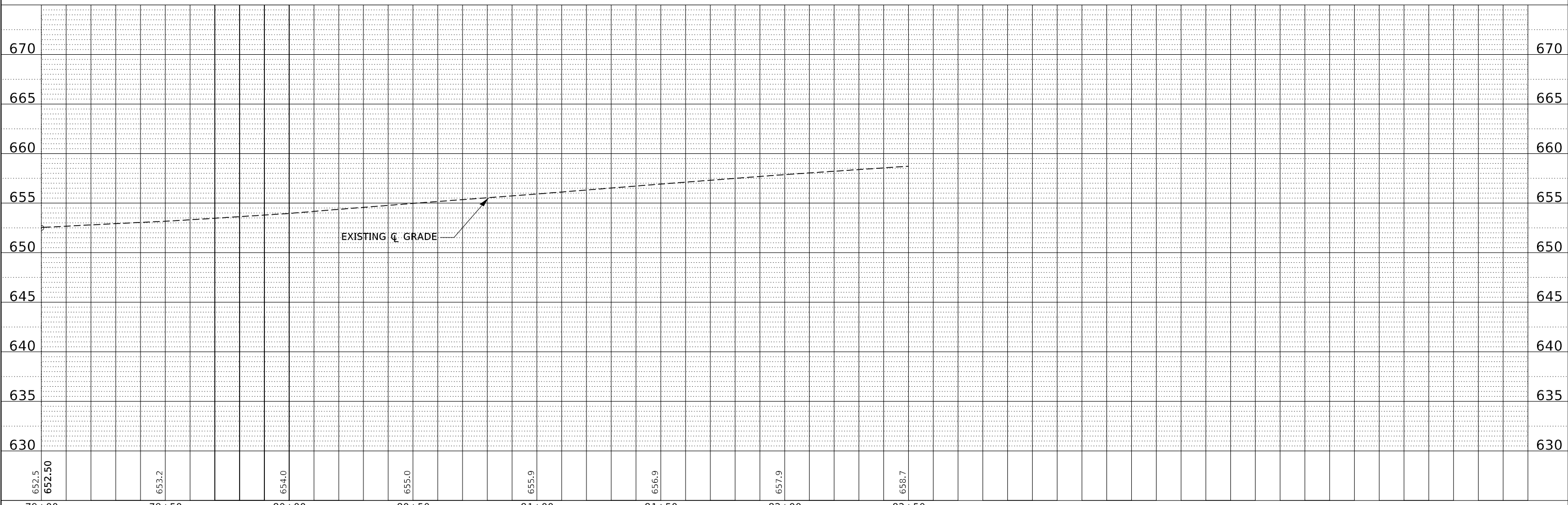


P.O.T. STA. 82+48.84
(TO BE SET)
N. 1468718.61
E. 1080273.00

CURVE DATA
PI Sta. 78+66.75
 $\Delta = 55^\circ 34' 25''$ (LT)
D = 20° 50' 05"
T = 144.91'
R = 275.00'
L = 266.73'
E = 35.84'
PC Sta. 77+21.84
PT Sta. 79+88.57



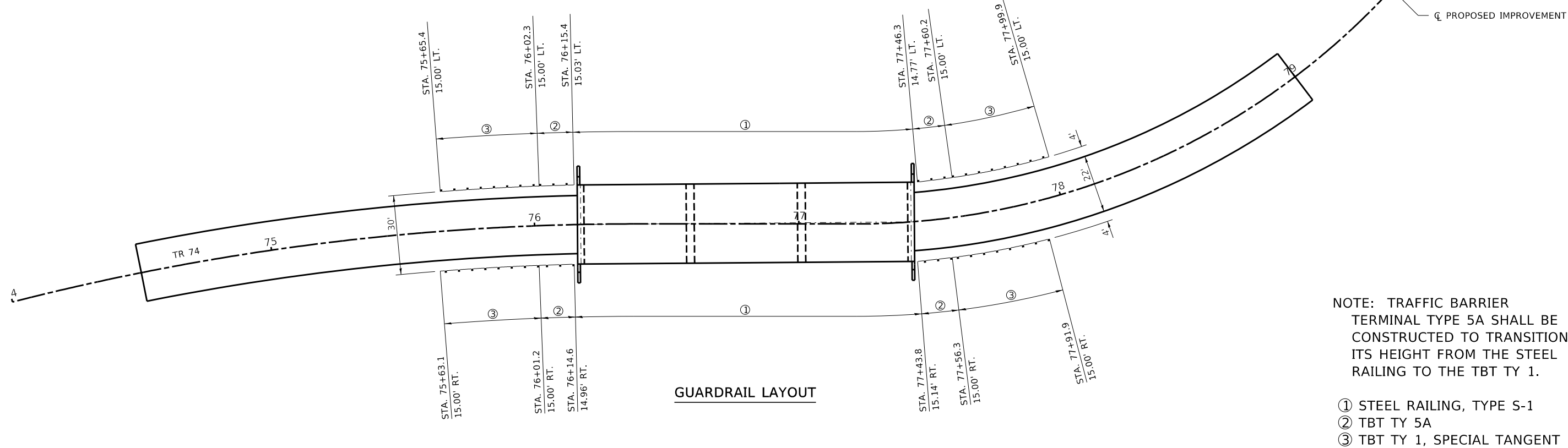
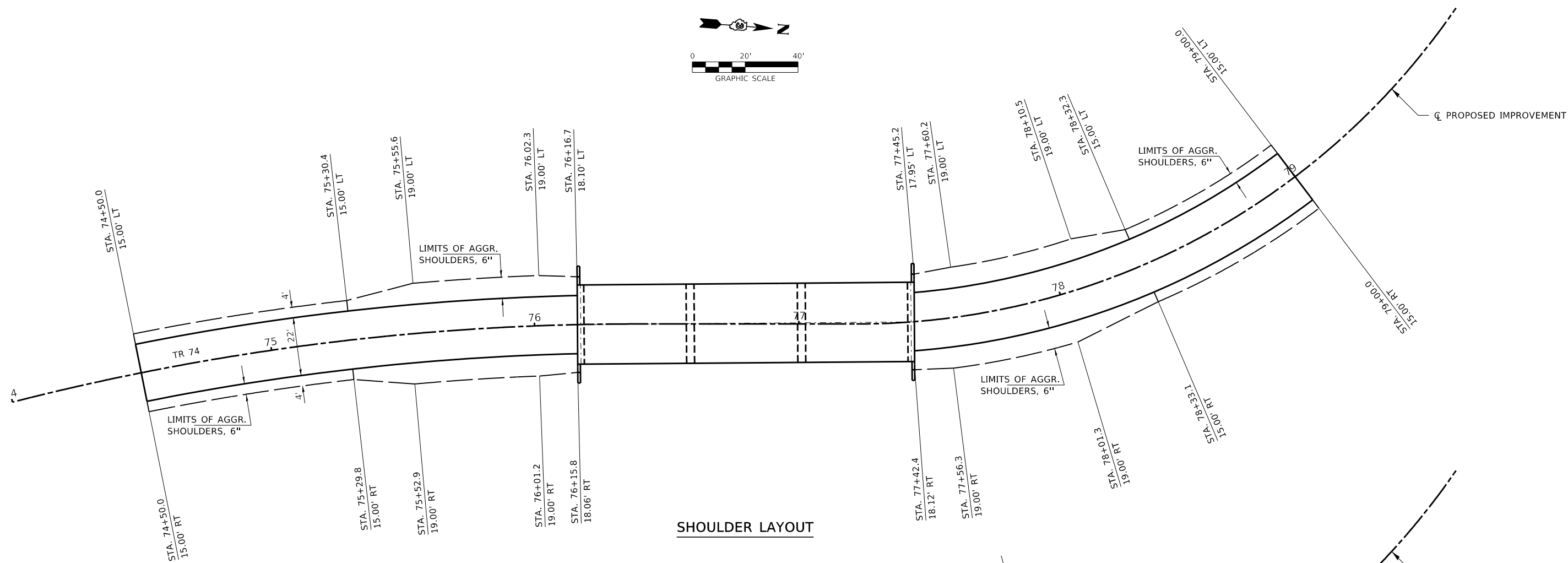
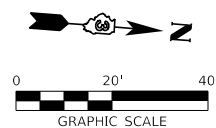
RUSSELL & MARILYNN GEISLAR
SW 1/4, SEC 30, T. 26 N., R. 14 W., 2ND P.M.



PLAN	REVIEWED	DATE
	BY	
	NOTED	
	DATE	
	BY	
	NOTED	
	DATE	

PROFILE	REVIEWED	DATE
	BY	
	NOTED	
	DATE	
	BY	
	NOTED	
	DATE	

FILE NAME = 150177-shit-p&p.dgn	USER NAME = rhosick	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS IROQUOIS COUNTY HIGHWAY DEPARTMENT	PLAN & PROFILE	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.	DRAWN - L.G.C.	REVISED -	74			14-20101-00-BR	IROQUOIS	37	7	
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62705 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	CHECKED - S.W.M.	REVISED -	ONARGA ROAD DISTRICT			CONTRACT NO. 87691		ILLINOIS FED. AID PROJECT 3H72(853)		
PLOT SCALE = \$SCALE\$	DATE - 03/11/19	REVISED -	SCALE: 20H:5V			SHEET NO. 3 OF 3 SHEETS	STA. 79+50.00 TO STA. 82+50.00			



NOTE: TRAFFIC BARRIER TERMINAL TYPE 5A SHALL BE CONSTRUCTED TO TRANSITION ITS HEIGHT FROM THE STEEL RAILING TO THE TBT TY 1.

① STEEL RAILING, TYPE S-1
 ② TBT TY 5A
 ③ TBT TY 1, SPECIAL TANGENT

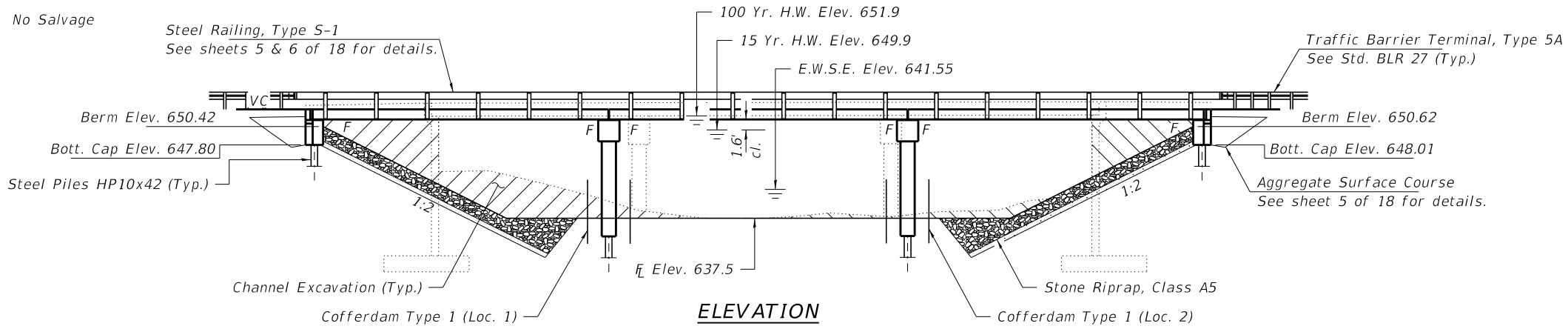
FILE NAME = 150177-shi-guardrail.dgn	USER NAME = rmosick	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS IROQUOIS COUNTY HIGHWAY DEPARTMENT	GUARDRAIL & SHOULDER LAYOUT		T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - M.M.P.	REVISED -		74	14-20101-00-BR	IROQUOIS	37	8		
PLOT DATE = 3/11/2019	DATE = 03/11/19	CHECKED - S.W.M.	REVISED -		ONARGA ROAD DISTRICT		CONTRACT NO. 87691		ILLINOIS FED. AID PROJECT 3H72(853)		
		DATE = 03/11/19	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			

BENCHMARK: Cross Notch on NW Wingwall 13' Lt., Sta. 77+21, Elev. 654.99

EXISTING STRUCTURE: Sta. 76+81 - Three span precast prestressed concrete deck beam bridge on closed concrete abutments and wingwalls and precast concrete pile bent piers. 93.0' fc.-fc.; 24.0' o.-o. deck.

Structure closed to traffic during construction.

No Salvage

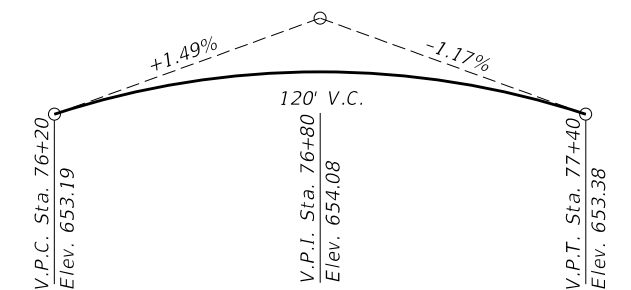
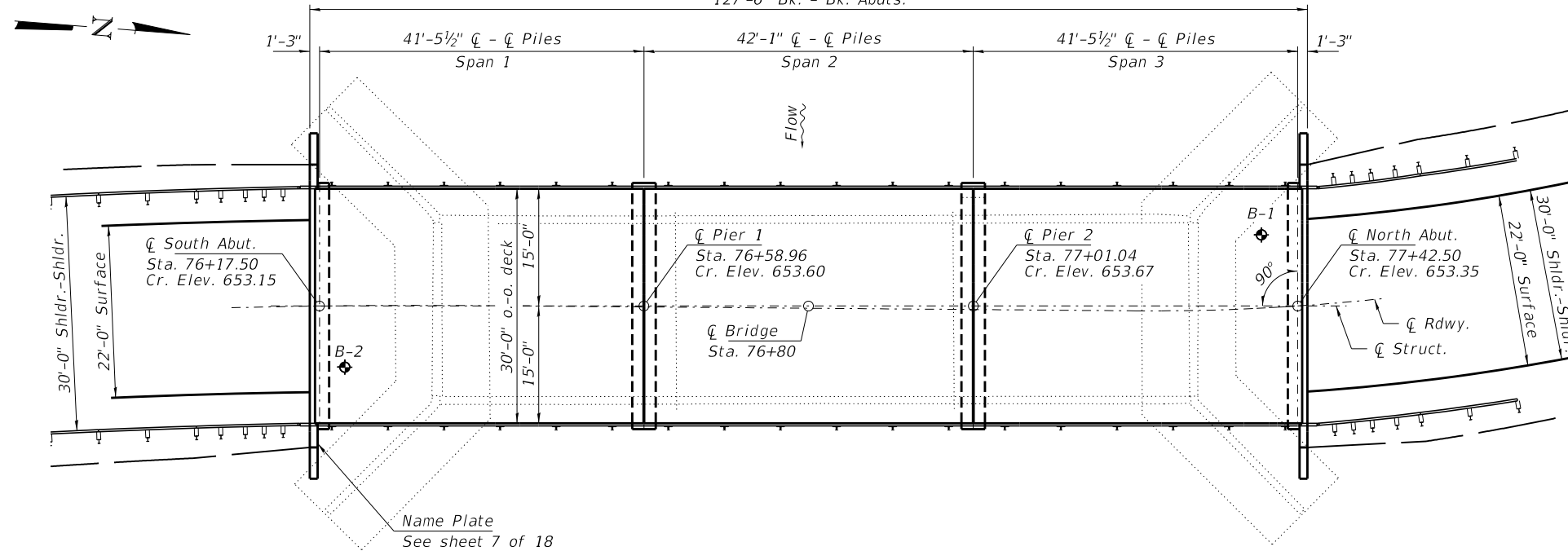


GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at South Abutment and Pier 2 or approved by the Engineer before ordering the remainder of piles.
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. Cost included in Removal of Existing Structure.
 Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.
 All bars to be epoxy coated.
 Excavation required to construct the Abutments and Piers shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation or Cofferdam Excavation.
 All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act.
 The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions.

INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. General Details
3. 17"x36" PPC Deck Beam Spans 1-3
4. 17"x36" PPC Deck Beam Details Spans 1-3
5. Superstructure Details
6. Steel Railing, Type S-1
7. South Abutment
8. North Abutment
9. Pier 1
10. Pier 2
11. HP Pile Details
- 12-13. Borings
- 14-18. Existing Structure Plans



PROFILE GRADE

PLAN

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft.)				Item 113
	S. Abut.	Pier 1	Pier 2	N. Abut.	
Q100	648.3	623.1	623.1	648.3	5
Q200	648.3	623.1	623.1	648.3	
Design	648.3	623.1	623.1	648.3	
Check	648.3	623.1	623.1	648.3	

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition with all interims.

LOADING HL-93

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

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.113g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.183g
 Soil Site Class = D

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	15	8010	890	1010	649.85	1.00	0.86	650.85	650.71
Base	100	12670	1070	1230	651.89	1.07	0.91	652.96	652.80
Scour Check	200	14350	1070	1230	652.56	1.00	0.82	653.56	653.38
Max. Calc.	500	16730	1070	1230	653.42	0.80	0.63	654.22	654.05

Existing Low Grade Elev. 651.5 @ Sta. 74+00
 Proposed Low Grade Elev. 651.5 @ Sta. 74+00
 10 Year Velocity through Existing Bridge = 8.4 fps 10 Year Velocity through Proposed Bridge = 7.4 fps

DESIGN STRESSES

FIELD UNITS

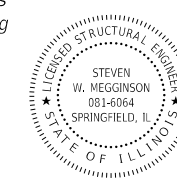
$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinf.)

PRECAST PRESTRESSED UNITS

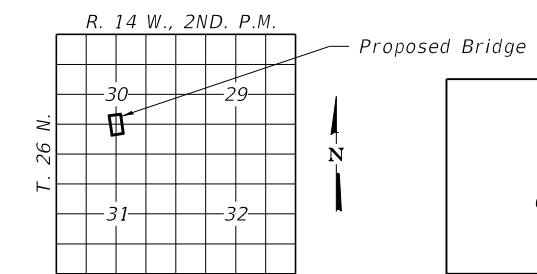
$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi ($1/2"$ low lax. strands)
 $f_{pbt} = 201,960$ psi ($1/2"$ low lax. strands)
 $f_y = 60,000$ psi (Reinf.)

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 LRFD Specifications."

Steven W. Megginson 03/11/19
 ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



Expires 11-30-2020



LOCATION SKETCH

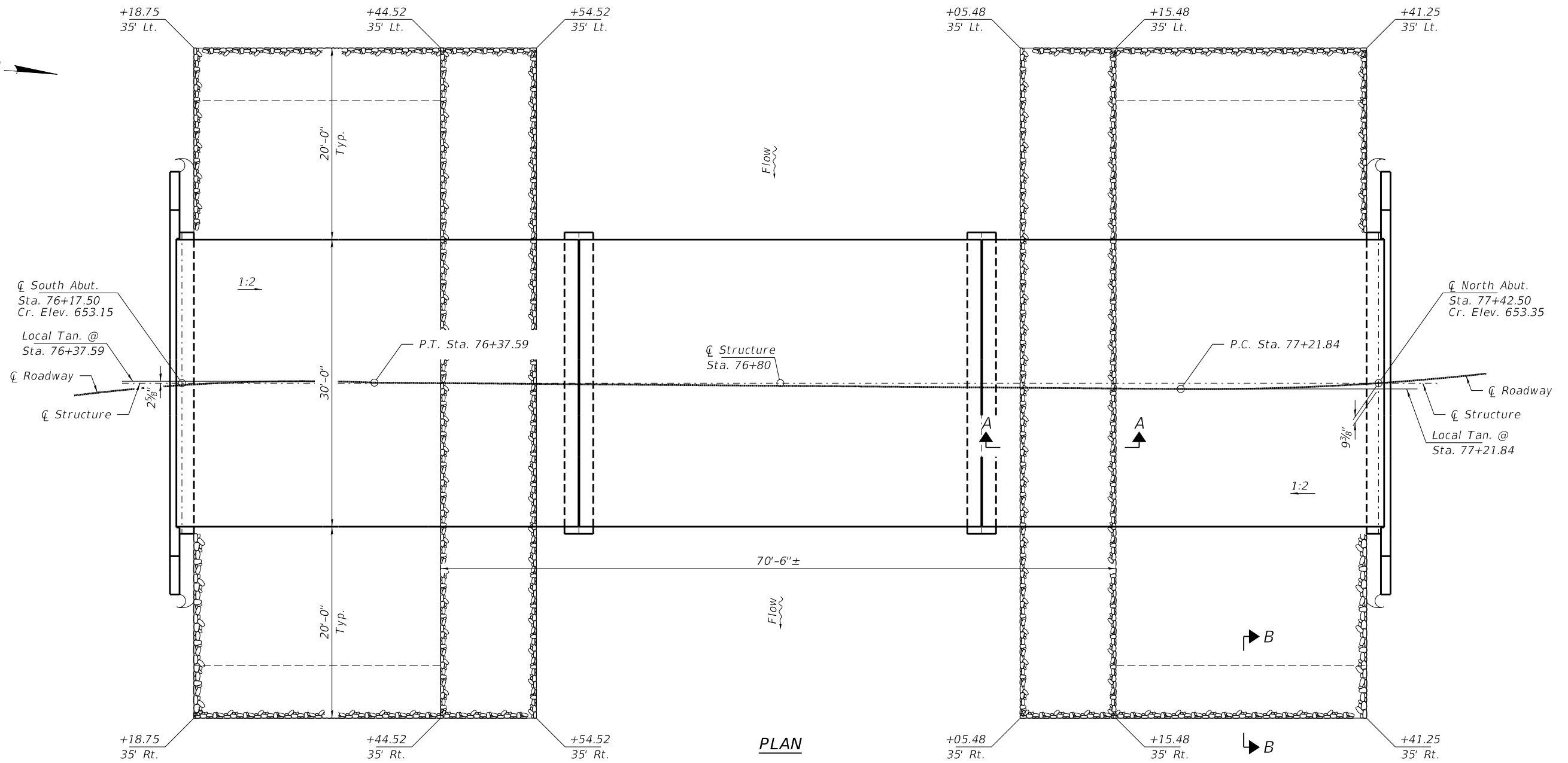
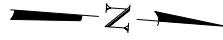
SPRING CREEK
 BUILT 201_ BY
 IROQUOIS COUNTY
 SEC. 14-20101-00-BR
 ONARGA ROAD DISTRICT
 STR. NO. 038-4939
 LOADING HL-93

NAME PLATE
 See Std. 515001

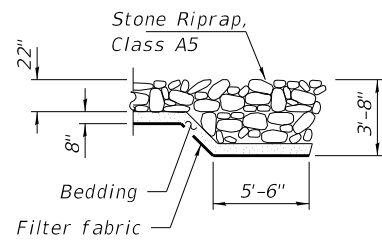
GENERAL PLAN & ELEVATION

T.R. 74
OVER SPING CREEK
SECTION 14-20101-00-BR
IROQUOIS COUNTY
STATION 76+80
STRUCTURE NO. 038-4939

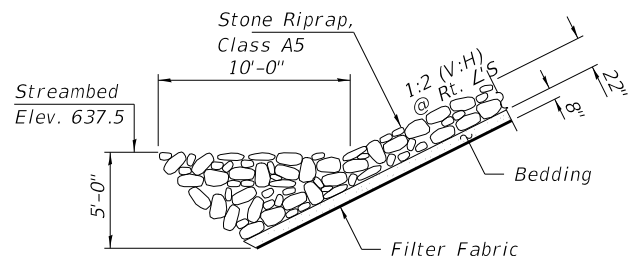
FILE NAME = 150177-shl-brdgn.dgn	USER NAME = rmosck	DESIGNED - J.R.B.	REVISED -	STATE OF ILLINOIS IROQUOIS COUNTY HIGHWAY DEPARTMENT	GENERAL PLAN & ELEVATION STRUCTURE NO. 038-4939	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -			74	14-20101-00-BR	IROQUOIS	37	9
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959	PLOT SCALE =	DRAWN - M.M.P.	REVISED -			ONARGA ROAD DISTRICT				CONTRACT NO. 87691
PLOT DATE = 3/11/2019		CHECKED - S.W.M.	REVISED -			ILLINOIS	FED. AID PROJECT 3H72(853)			



PLAN



SECTION B-B



SECTION A-A

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			365
Stone Riprap, Class A5	Ton			820
Filter Fabric	Sq. Ft.			608
Aggr. Base Cse, Type B	Ton		100	100
Removal of Existing Structures	Each			1
Cofferdam (Type 1)(Location - 1)	Each			1
Cofferdam (Type 1)(Location - 2)	Each			1
Concrete Structures	Cu. Yd.		133.2	133.2
Precast Prestressed Conc. Deck Beams (17" Depth)	Sq. Ft.	3,780		3,780
Reinforcement Bars, Epoxy Coated	Pound		8,380	8,380
Steel Railing, Type S-1	Foot	260		260
Furnishing Steel Piles HP10x42	Foot		1,045	1,045
Driving Piles	Foot		1,045	1,045
Test Piles Steel HP10x42	Each		2	2
Name Plates	Each		1	1

FILE NAME = 150177-shl-bridge.dgn
 USER NAME = rmosick
HAMPTON, LENZINI AND RENWICK, INC.
 3035 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000959

DESIGNED - J.R.B.
 CHECKED - S.W.M.
 DRAWN - M.M.P.
 CHECKED - S.W.M.
 REVISED -
 REVISED -
 REVISED -
 REVISED -

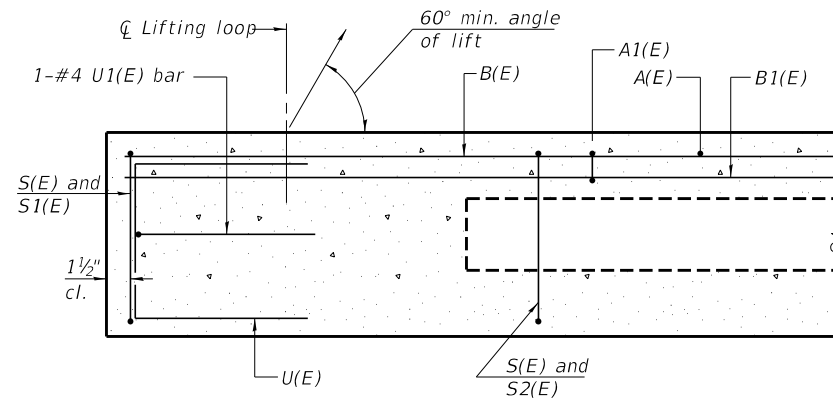
STATE OF ILLINOIS
IROQUOIS COUNTY HIGHWAY DEPARTMENT

RIPRAP DETAILS
STRUCTURE NO. 038-4939

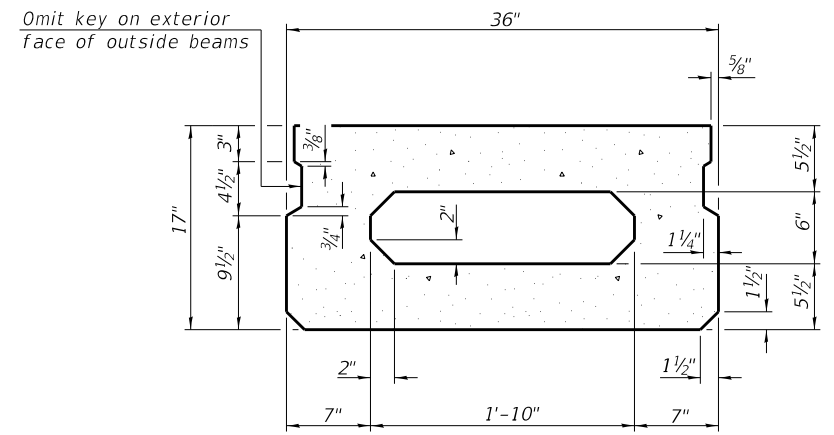
SHEET NO. 2 OF 18 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	14-20101-00-BR	IROQUOIS	37	10
ONARGA ROAD DISTRICT		CONTRACT NO. 87691		

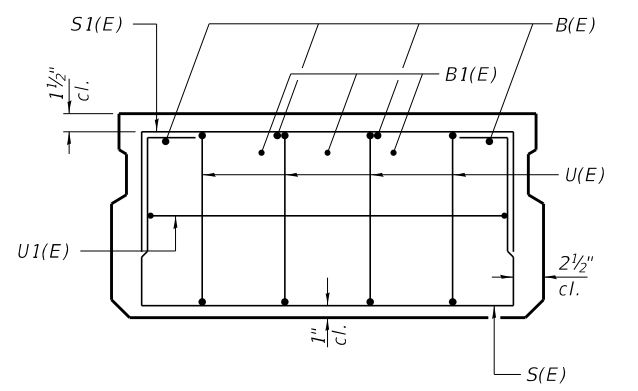
ILLINOIS FED. AID PROJECT 3H7Z(853)



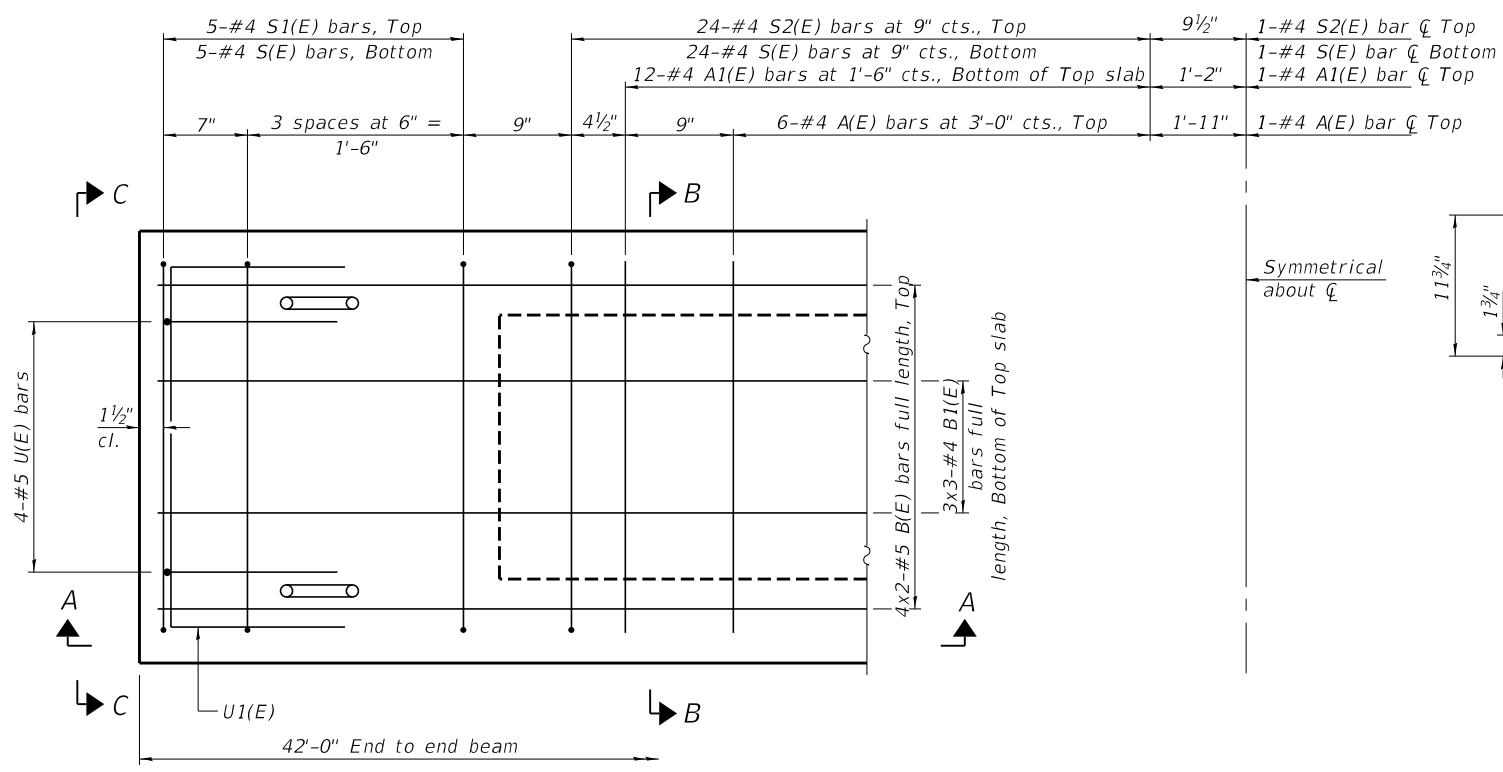
SECTION A-A



SECTION B-B
(Showing dimensions)

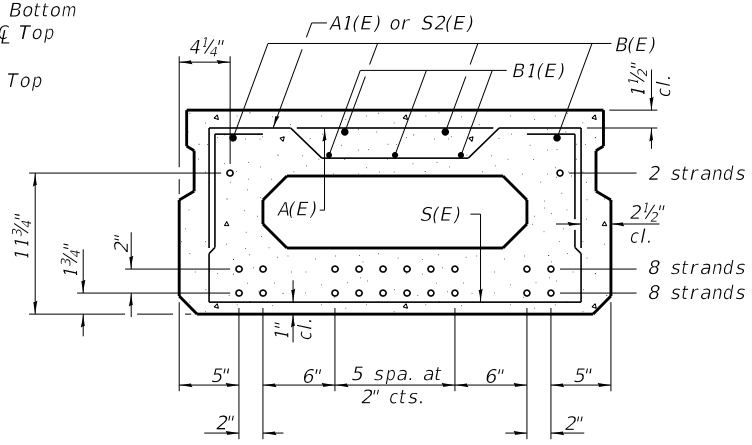


VIEW C-C



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.
Bars indicated thus 4x2-#5 etc. indicates 4 lines of bars with 2 lengths per line.



SECTION B-B
(Showing reinforcement and permissible strand locations)

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

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

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	13	#4	2'-7"	—
A1(E)	25	#4	2'-10"	—
B(E)	8	#5	22'-2"	—
B1(E)	9	#4	15'-3"	—
S(E)	59	#4	5'-9"	□
S1(E)	10	#4	4'-3"	□
S2(E)	49	#4	4'-6"	□
U(E)	8	#5	3'-8"	□
U1(E)	2	#4	5'-0"	□

Note: See sheet 4 & 5 of 18 for additional details and Bill of Material.

PD-1736-0 2-17-2017

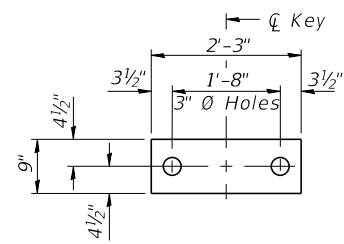
FILE NAME = 150177-shl-bridge.dgn	USER NAME = rmosick	DESIGNED - J.R.B.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 3/11/2019	DRAWN - M.M.P.	REVISED -
		CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
IROQUOIS COUNTY HIGHWAY DEPARTMENT

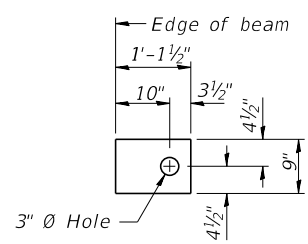
17" x 36" PPC DECK BEAM - SPANS 1, 2, & 3
STRUCTURE NO. 038-4939

SHEET NO. 3 OF 18 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	14-20101-00-BR	IROQUOIS	37	11
ONARGA ROAD DISTRICT		CONTRACT NO. 87691		
ILLINOIS FED. AID PROJECT 3H72(853)				



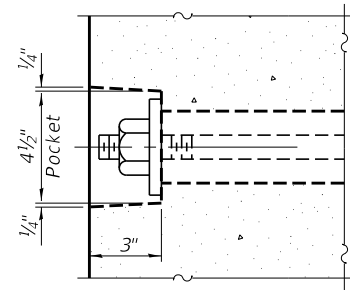
FABRIC BEARING PAD
(Interior - 27 Req'd.)



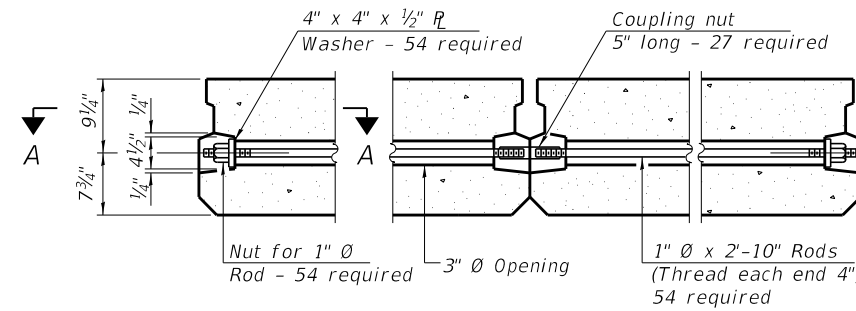
FABRIC BEARING PAD
(Exterior - 12 Req'd.)

FIXED

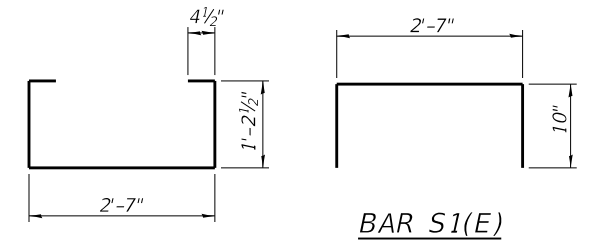
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

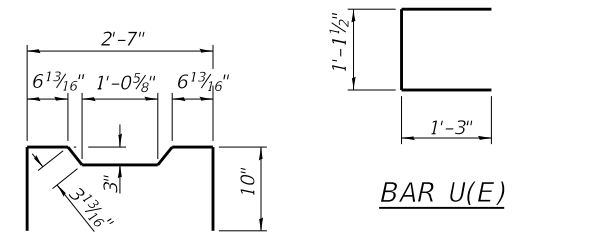


TYPICAL TRANSVERSE TIE ASSEMBLY



BAR S(E)

BAR S1(E)



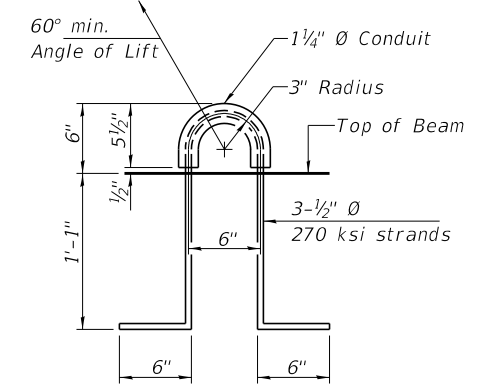
BAR S2(E)

BAR U(E)

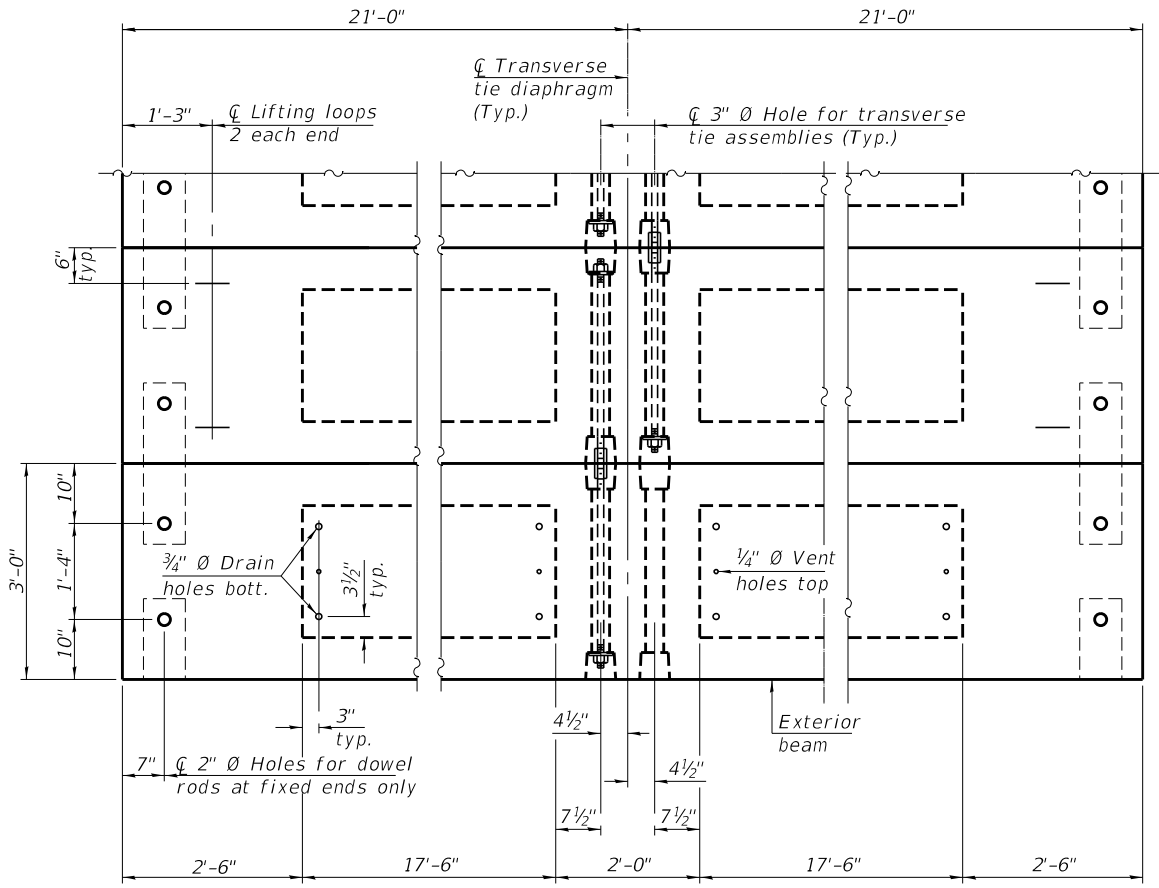
BAR S2(E)

BAR U1(E)

BAR A1(E)



LIFTING LOOP DETAIL



PLAN VIEW

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

NOTES

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

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	3,780
---	---------	-------

PD-1736-0D

2-17-2017

FILE NAME = 150177-shl-bridge.dgn	USER NAME = rmosick	DESIGNED - J.R.B.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
3035 STEVENSON DRIVE, SUITE 201		DRAWN - M.M.P.	REVISED -
SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM			
LS / PE / SE CORP. 184.000959			

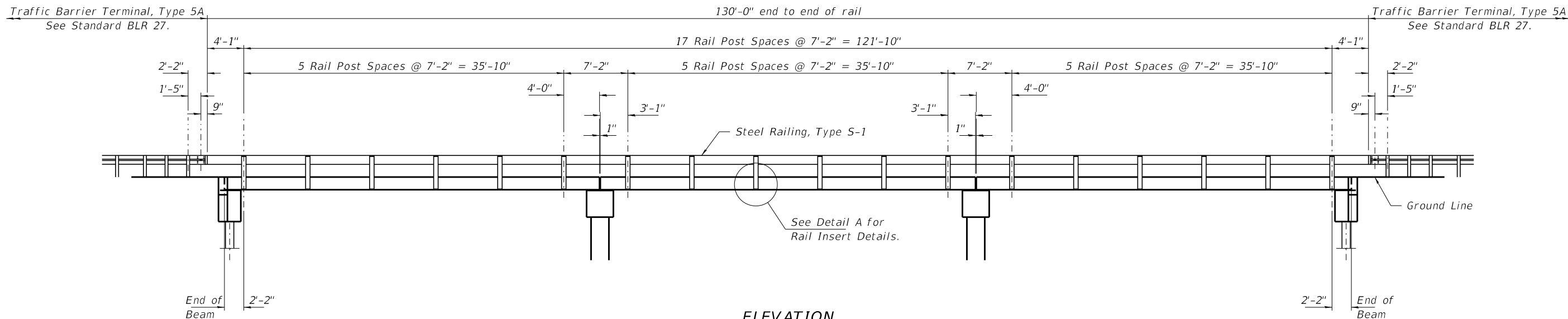
STATE OF ILLINOIS
IROQUOIS COUNTY HIGHWAY DEPARTMENT

17" x 36" PPC DECK BEAM DETAILS - SPANS 1, 2, & 3
STRUCTURE NO. 038-4939

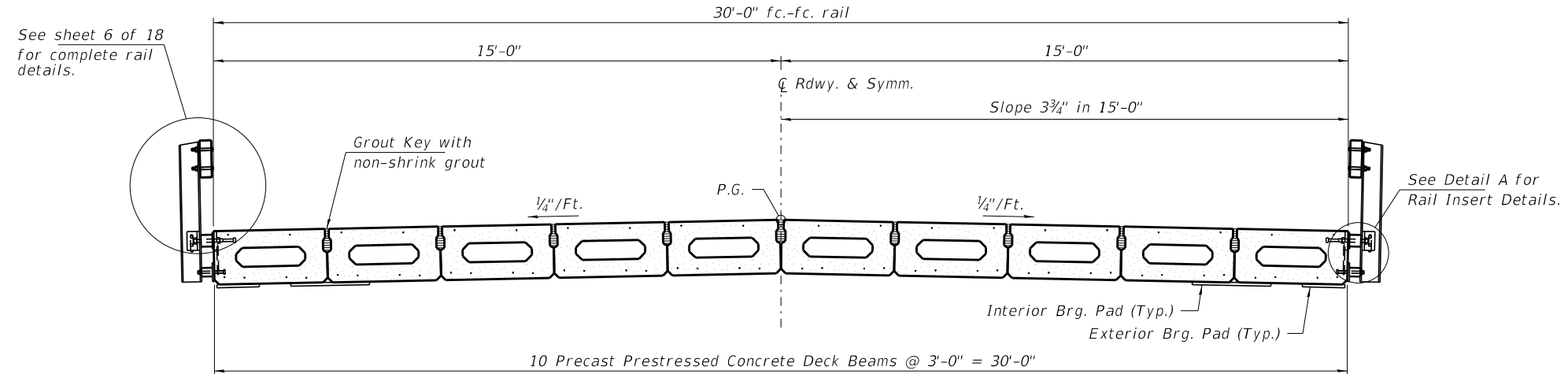
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	14-20101-00-BR	IROQUOIS	37	12
ONARGA ROAD DISTRICT		CONTRACT NO. 87691		

SHEET NO. 4 OF 18 SHEETS

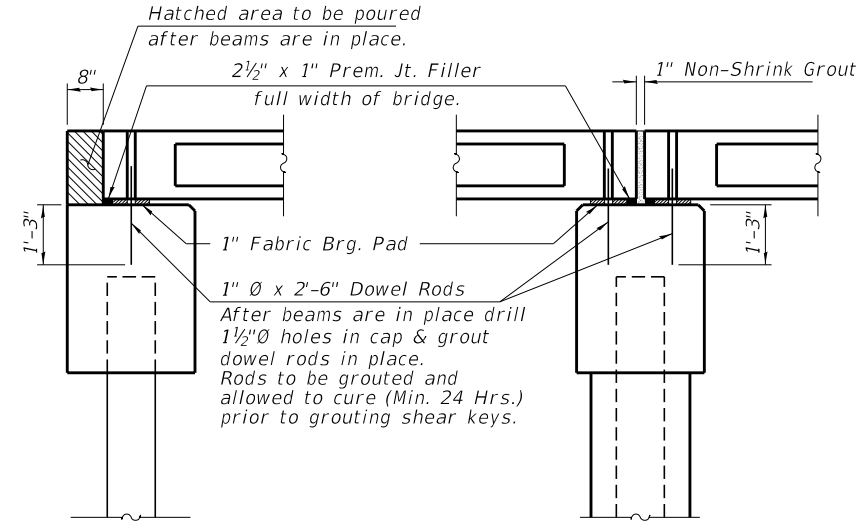
ILLINOIS FED. AID PROJECT 3H7Z(853)



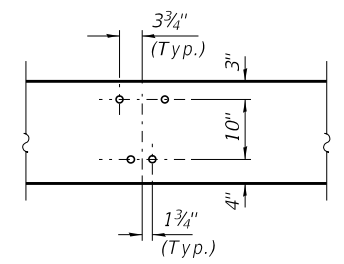
ELEVATION
Showing Rail Post Spaces
See sheet 6 of 18 for Railing Details.



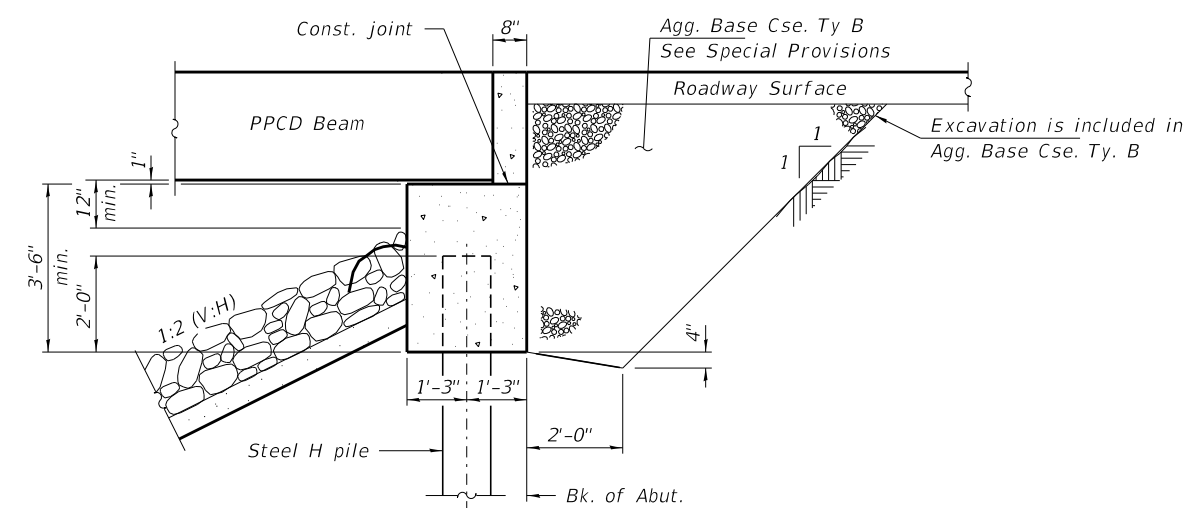
CROSS SECTION
See sheets 3 & 4 of 18 for Superstructure.



SECTION AT ABUTMENTS @ Rt. L's
SECTION AT PIERS @ Rt. L's

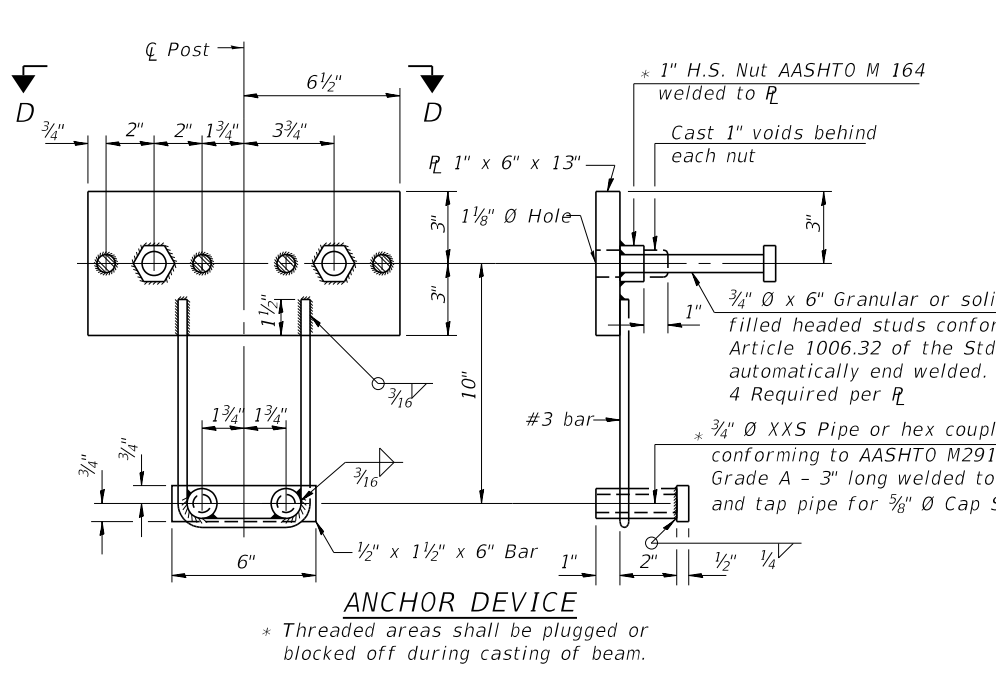
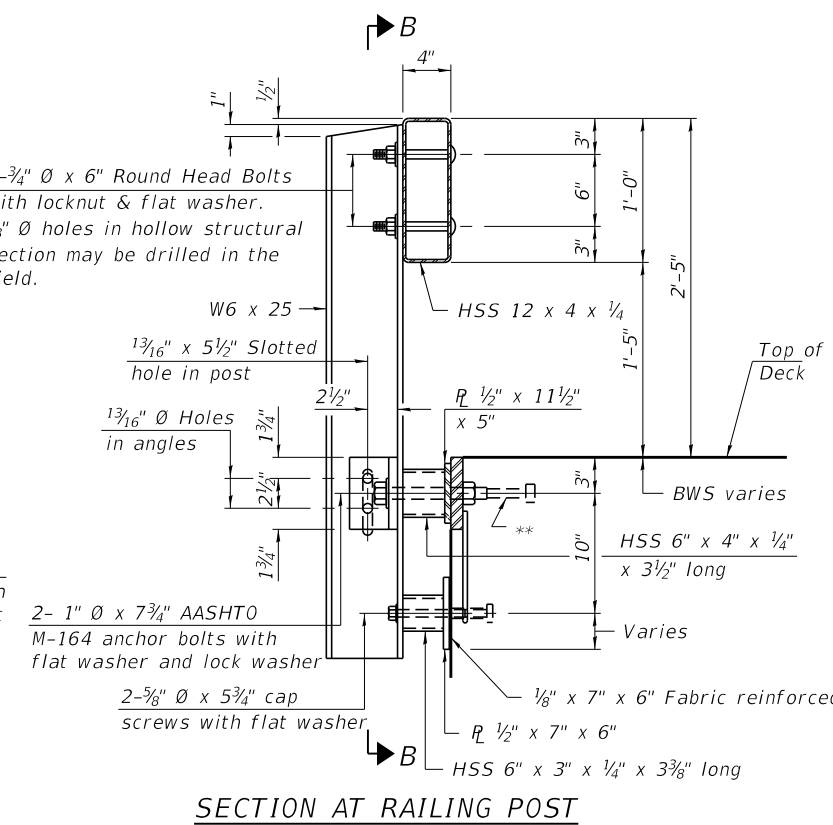
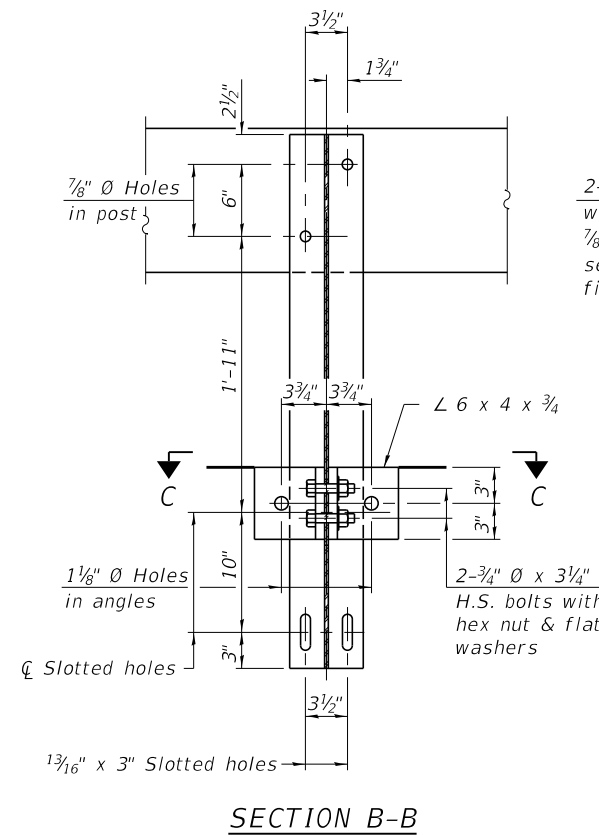
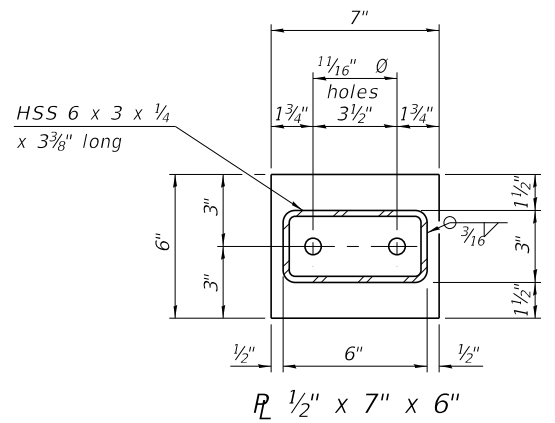
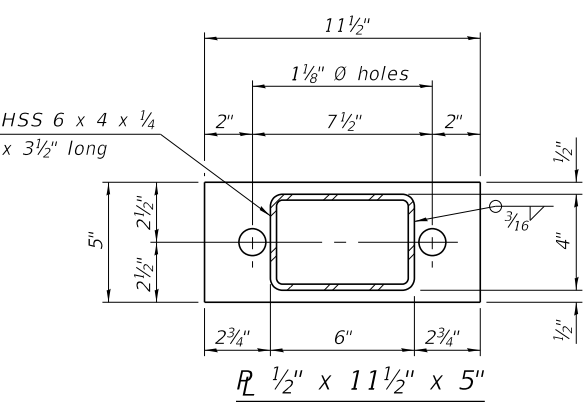
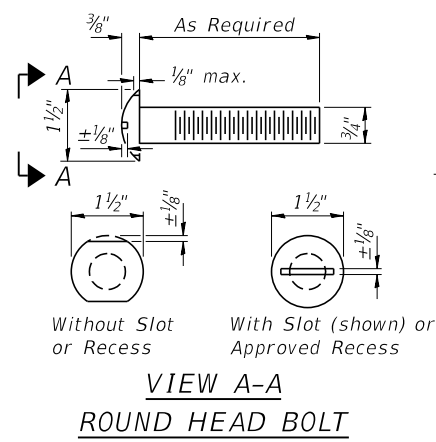


DETAIL A



SECTION THRU ABUTMENT
(Horiz. dim. @ Rt. L's)

FILE NAME = 150177-shl-bridge.dgn	USER NAME = rmosck	DESIGNED - J.R.B.	REVISED -	STATE OF ILLINOIS IROQUOIS COUNTY HIGHWAY DEPARTMENT	SUPERSTRUCTURE DETAILS STRUCTURE NO. 038-4939	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			74	14-20101-00-BR	IROQUOIS	37	13
PLOT DATE = 3/11/2019		DRAWN - M.M.P.	REVISED -			ONARGA ROAD DISTRICT		CONTRACT NO. 87691		
		CHECKED - S.W.M.	REVISED -			SHEET NO. 5 OF 18 SHEETS		ILLINOIS FED. AID PROJECT 3H7Z(853)		

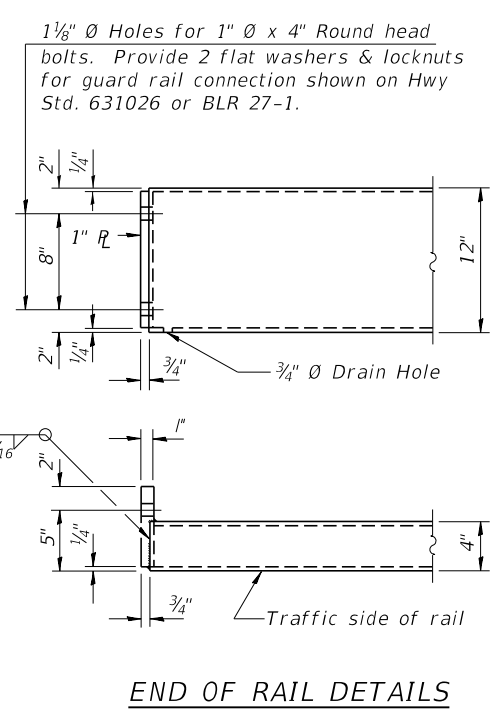
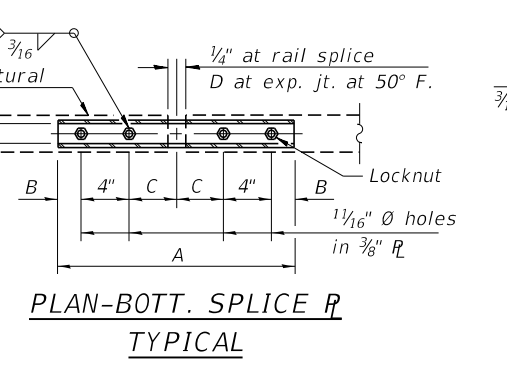
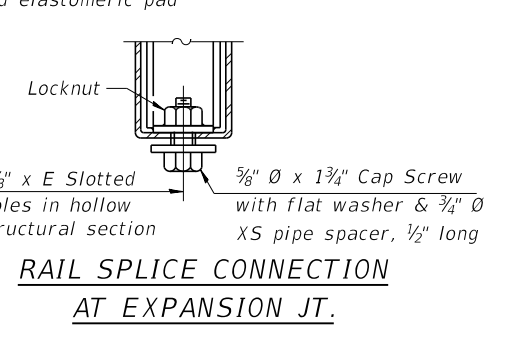
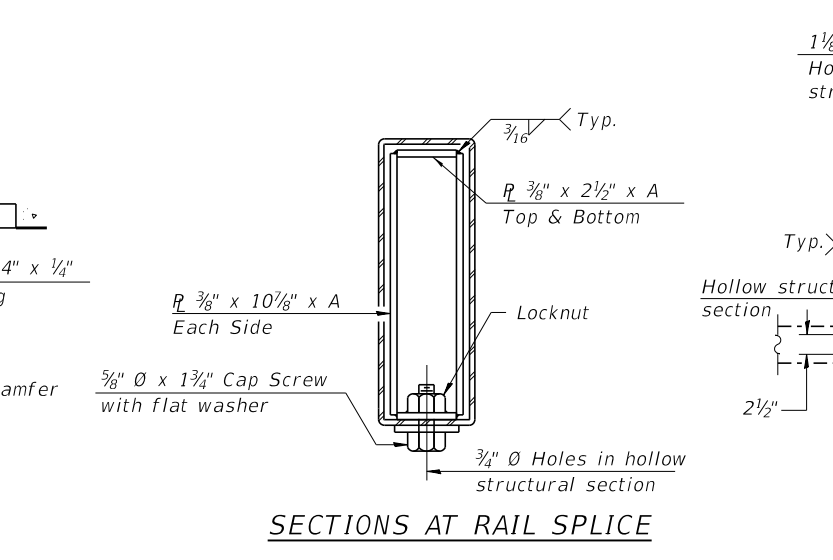
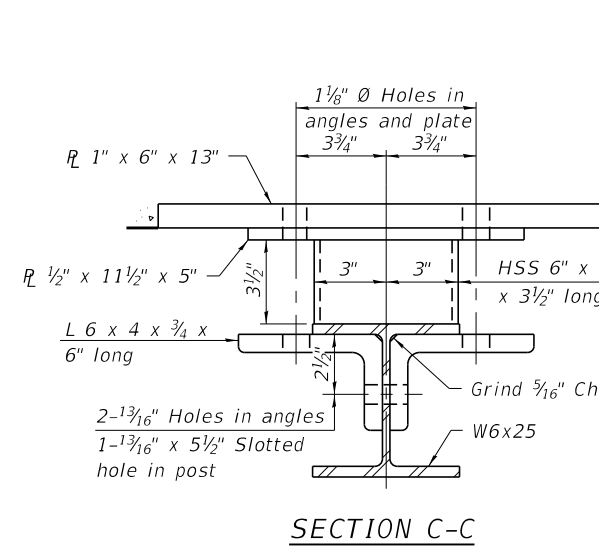


SPLICE DIMENSIONS

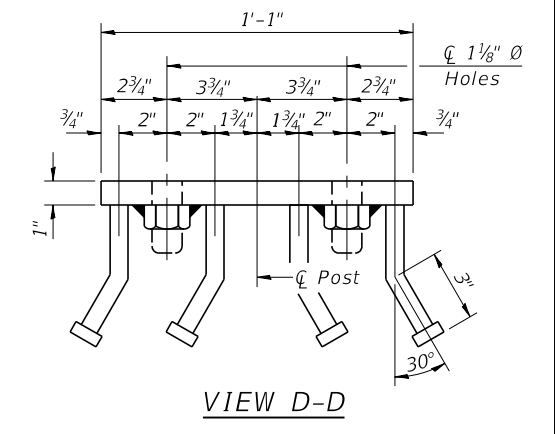
T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

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 S-1.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



**The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement bar placement.



BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	260

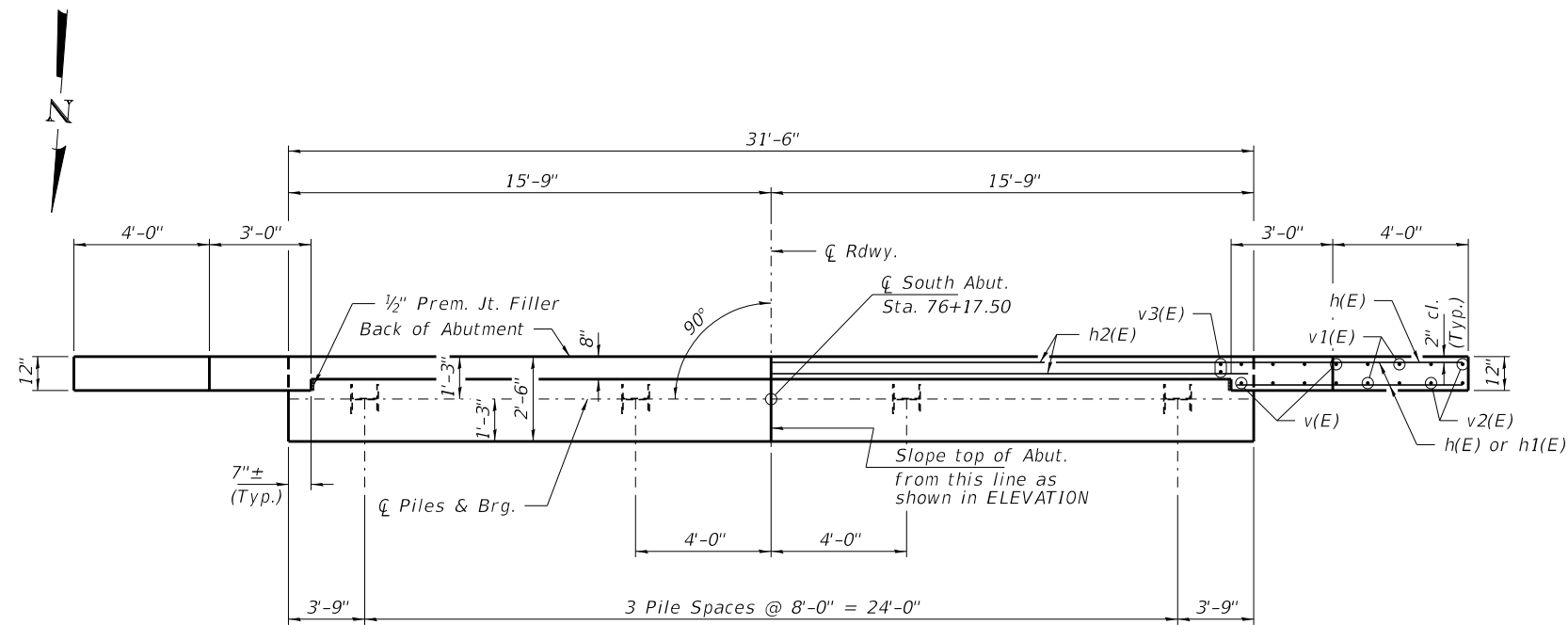
R-23A 8-11-2017 (10'-9" Maximum Post Spacing)

FILE NAME = 150177-shi-brkdg.dgn	USER NAME = rmosck	DESIGNED - J.R.B.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 3/11/2019	DRAWN - M.M.P.	REVISED -
		CHECKED - S.W.M.	REVISED -

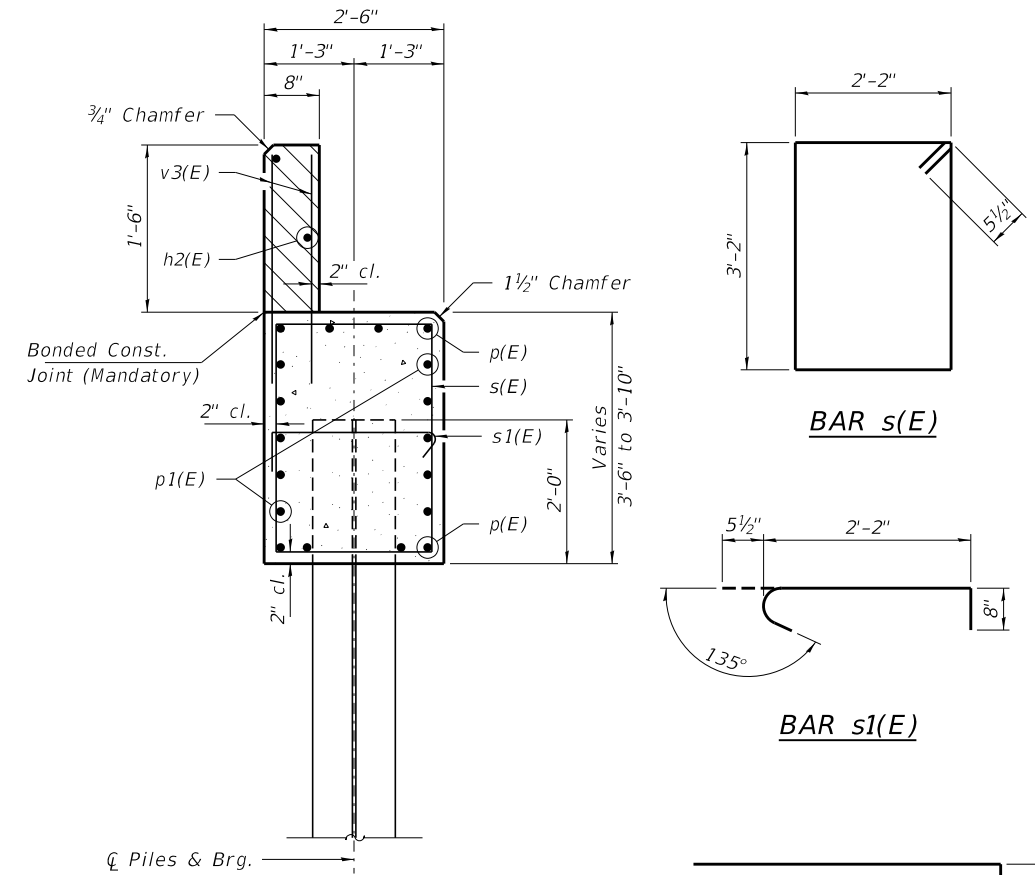
STATE OF ILLINOIS
 IROQUOIS COUNTY HIGHWAY DEPARTMENT

STEEL RAILING, TYPE S-1
 STRUCTURE NO. 038-4939
 SHEET NO. 6 OF 18 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	14-20101-00-BR	IROQUOIS	37	14
ONARGA ROAD DISTRICT		CONTRACT NO. 87691		
ILLINOIS FED. AID PROJECT 3H72(853)				



PLAN

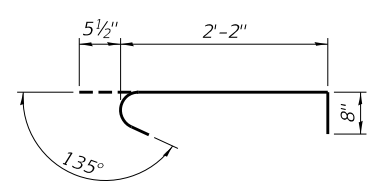


SECTION A-A

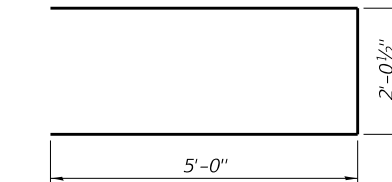
Hatched area to be poured after beams are in place.

Cast top of wingwall flush with exterior beam face after beams have been erected.

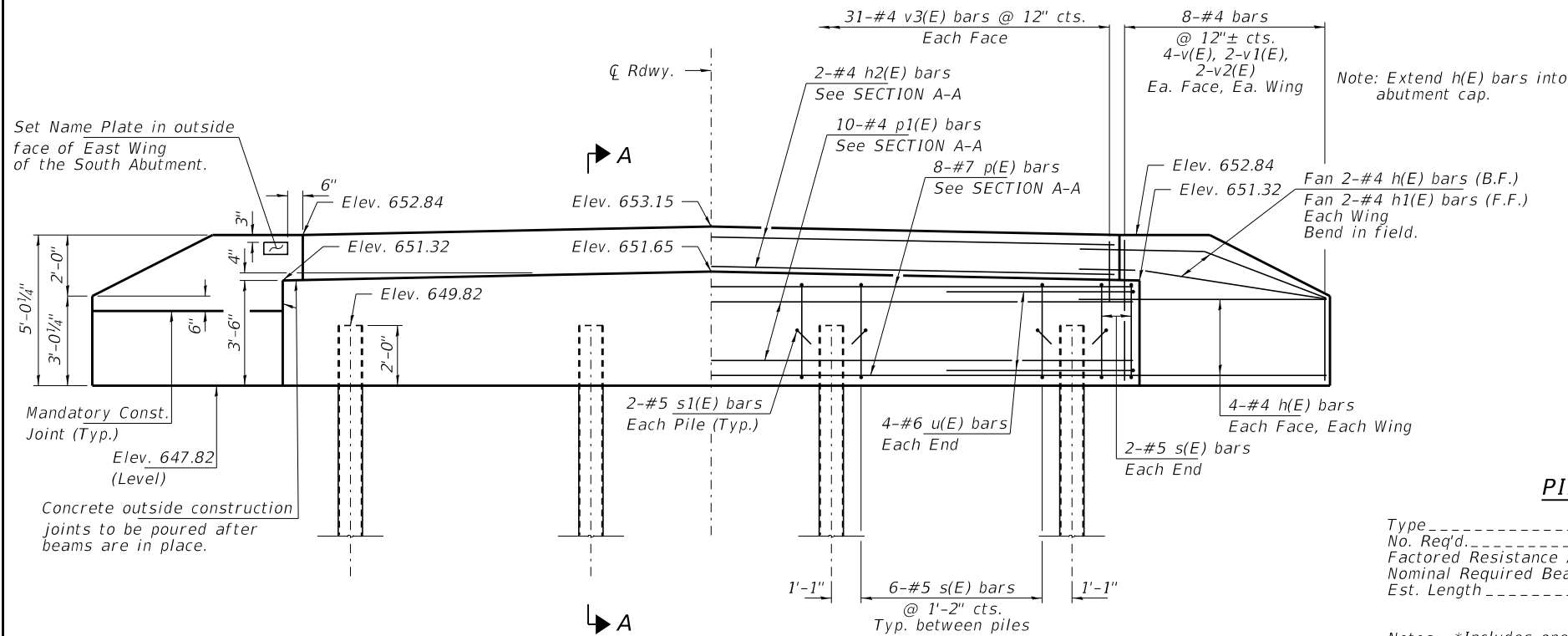
Cl Piles & Brg.



BAR s1(E)



BAR u(E)



ELEVATION

PILE DATA

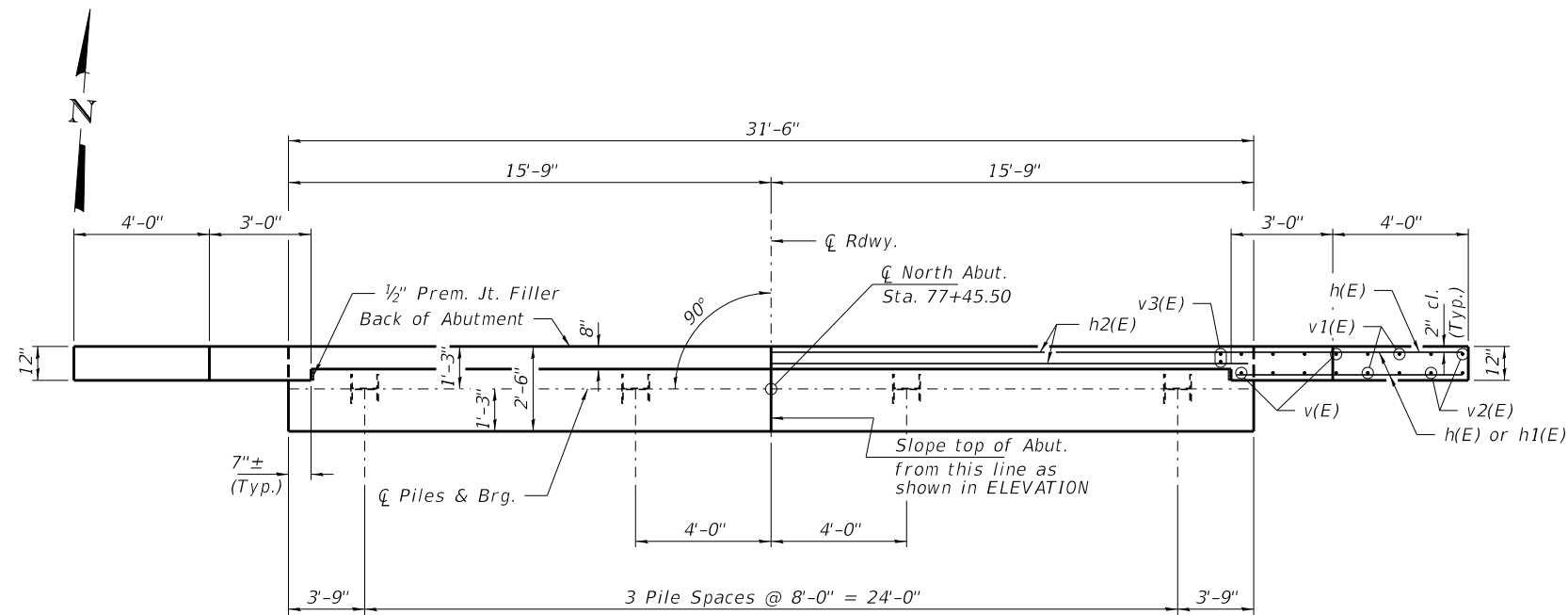
Type ----- Steel HP10x42
 No. Req'd ----- 4*
 Factored Resistance Available (Rf) ----- 184 Kips/Pile
 Nominal Required Bearing (Rn) ----- 335 Kips/Pile
 Est. Length ----- 55 Ft/Pile

Notes: *Includes one test pile to be driven in permanent location at the South Abutment.

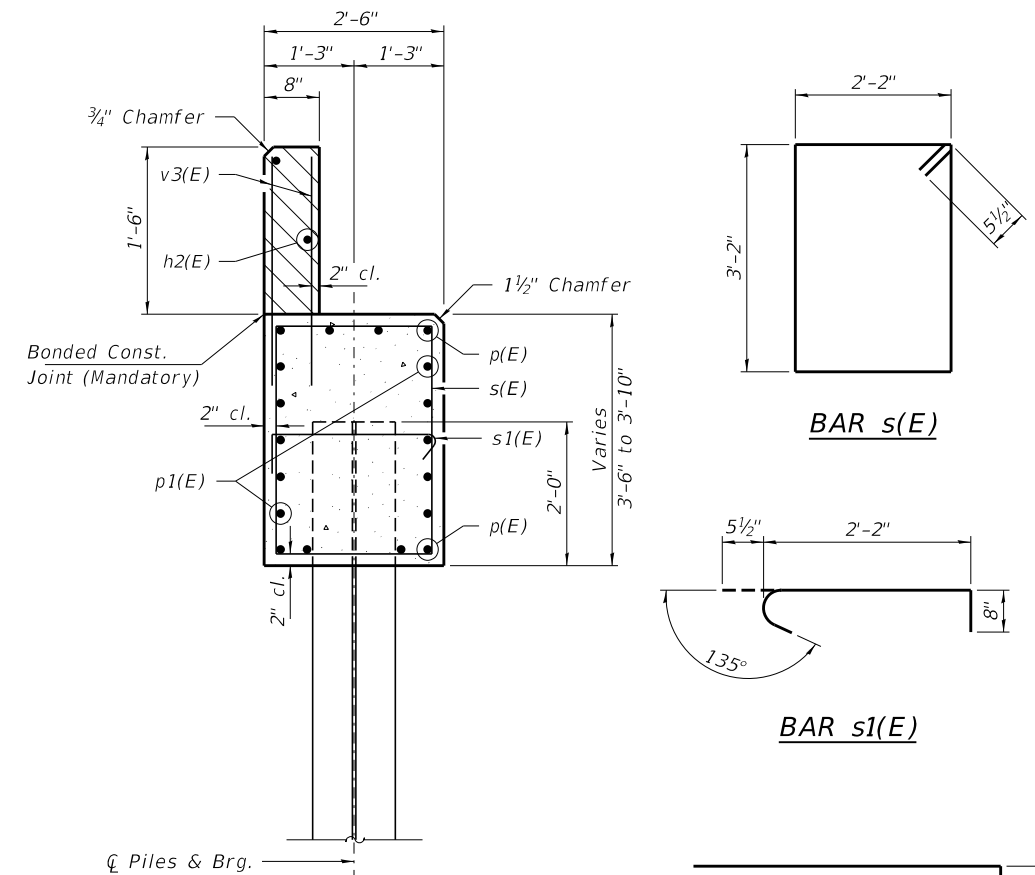
The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

BILL OF MATERIAL - S. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	20	#4	8'-3"	—
h1(E)	4	#4	6'-9"	—
h2(E)	2	#4	31'-2"	—
p(E)	8	#7	31'-2"	—
p1(E)	10	#4	31'-2"	—
s(E)	22	#5	11'-7"	□
s1(E)	8	#5	3'-4"	U
u(E)	8	#6	12'-1"	U
v(E)	16	#4	4'-7"	—
v1(E)	8	#4	3'-8"	—
v2(E)	8	#4	2'-9"	—
v3(E)	62	#4	2'-4"	—
Concrete Structures			Cu. Yd.	14.0
Reinf. Bars, Epoxy Coated			Pound	1,510
Steel Piles HP10x42			Foot	165
Test Pile Steel HP10x42			Each	1
Name Plates			Each	1



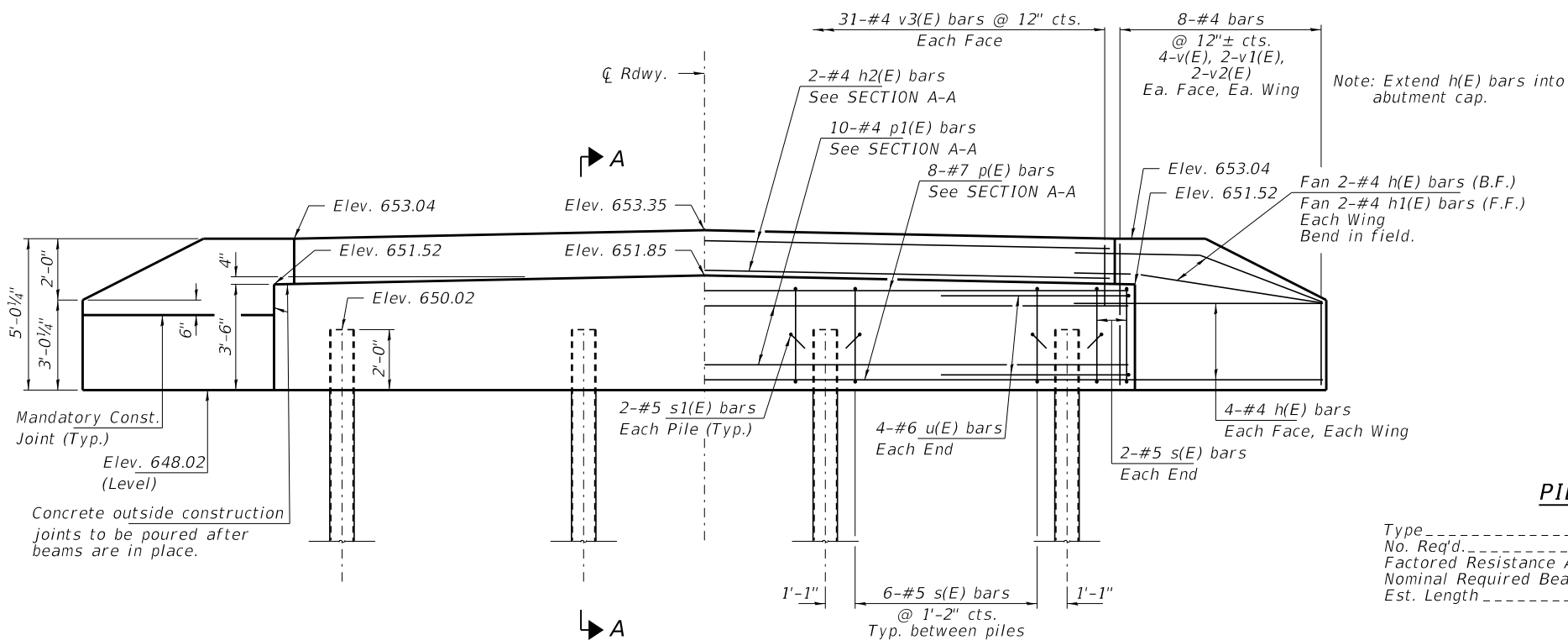
PLAN



SECTION A-A

Hatched area to be poured after beams are in place.

Cast top of wingwall flush with exterior beam face after beams have been erected.



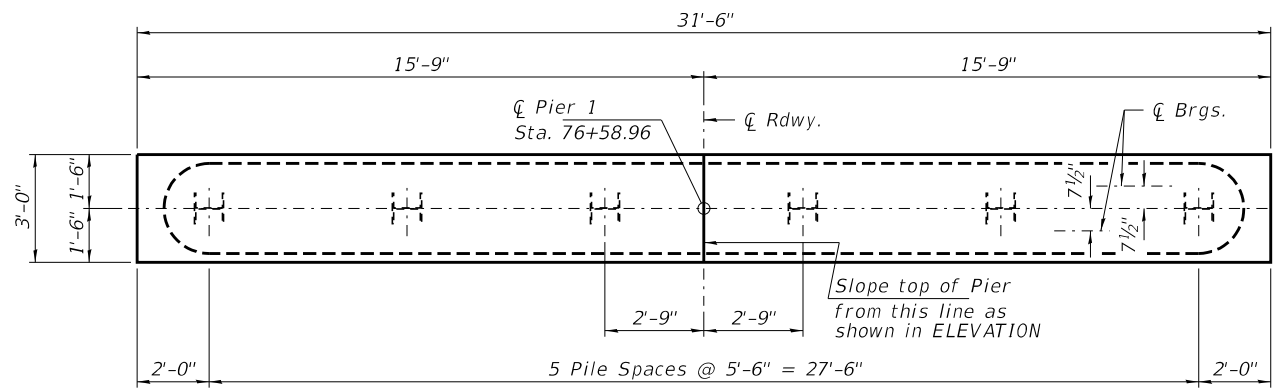
ELEVATION

PILE DATA

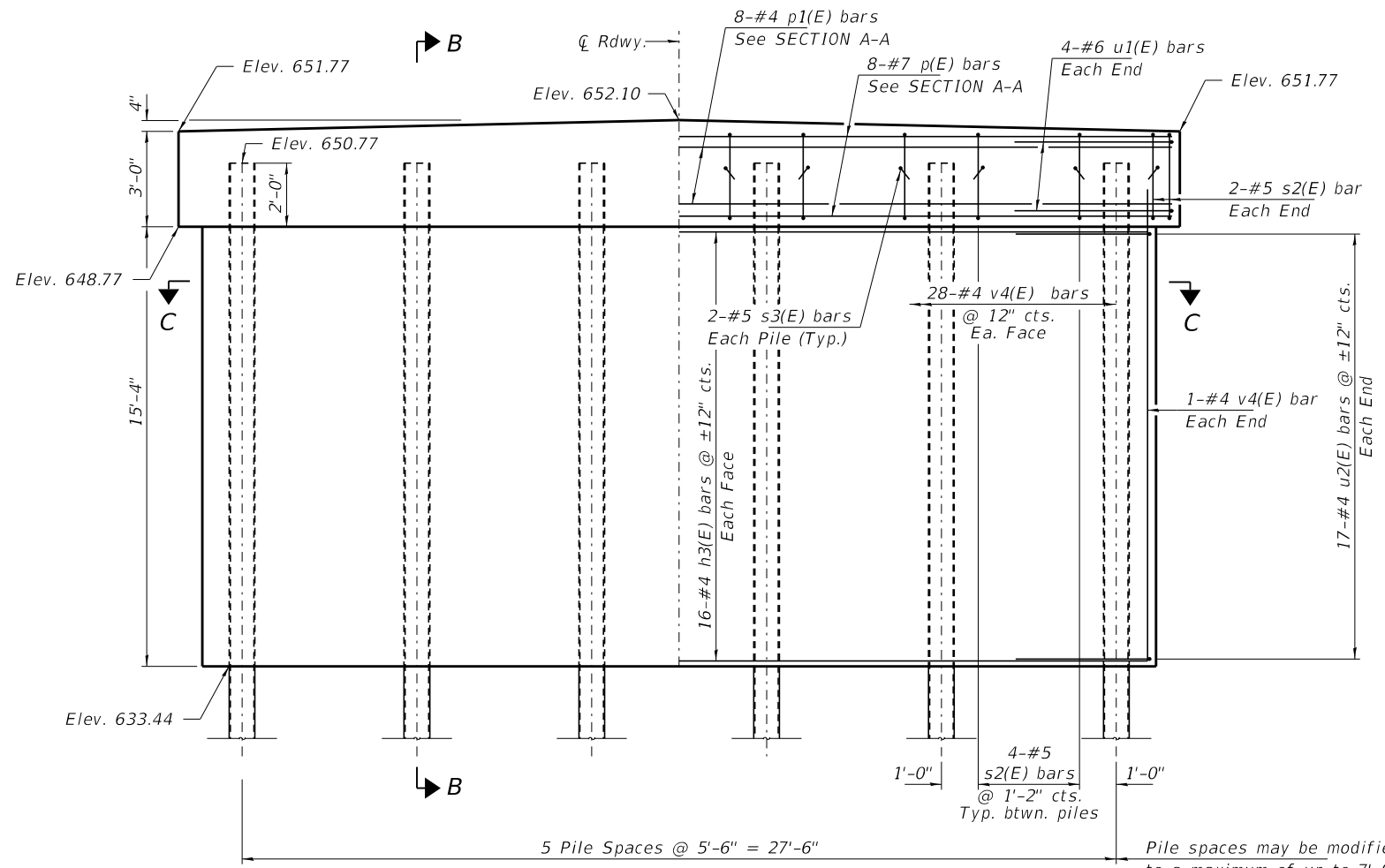
Type ----- Steel HP10x42
 No. Req'd ----- 4
 Factored Resistance Available (Rf) ----- 184 Kips/Pile
 Nominal Required Bearing (Rn) ----- 335 Kips/Pile
 Est. Length ----- 55 Ft/Pile

BILL OF MATERIAL - N. ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	20	#4	8'-3"	—
h1(E)	4	#4	6'-9"	—
h2(E)	2	#4	31'-2"	—
p(E)	8	#7	31'-2"	—
p1(E)	10	#4	31'-2"	—
s(E)	22	#5	11'-7"	□
s1(E)	8	#5	3'-4"	┌
u(E)	8	#6	12'-1"	┌
v(E)	16	#4	4'-7"	—
v1(E)	8	#4	3'-8"	—
v2(E)	8	#4	2'-9"	—
v3(E)	62	#4	2'-4"	—
Concrete Structures			Cu. Yd.	14.0
Reinf. Bars, Epoxy Coated			Pound	1,510
Steel Piles HP10x42			Foot	220

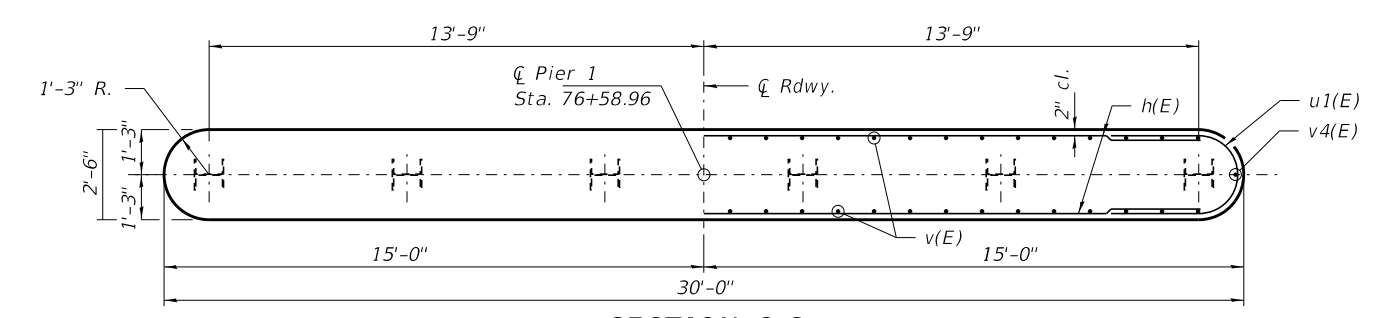


PLAN

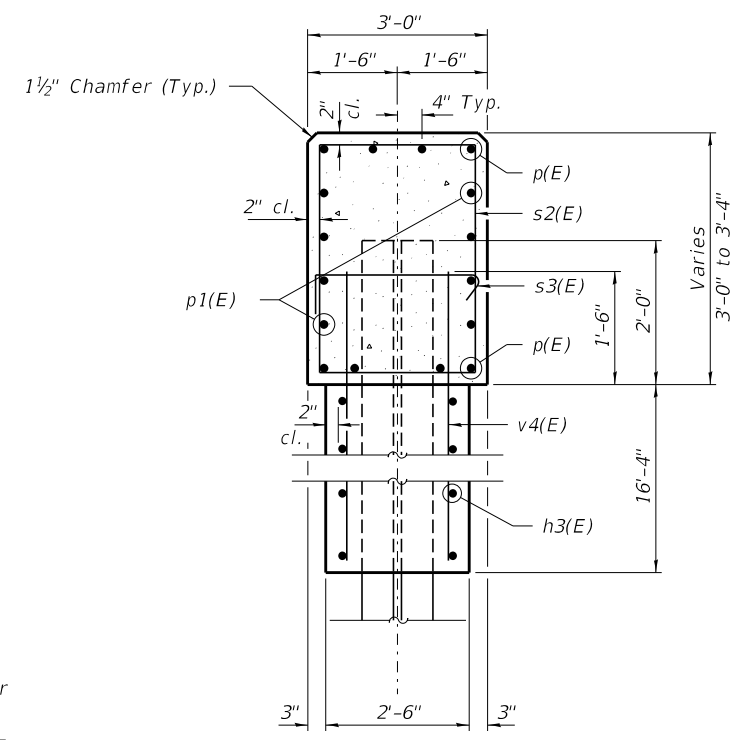


ELEVATION

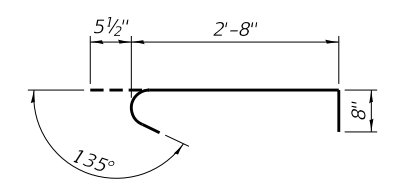
Pile spaces may be modified to a maximum of up to 7'-0" to avoid existing piling as approved by the Engineer.



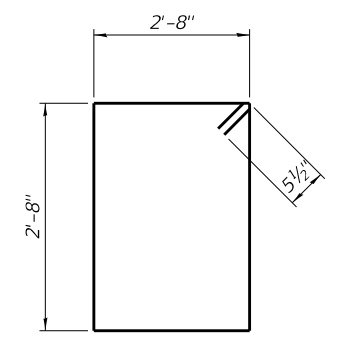
SECTION C-C



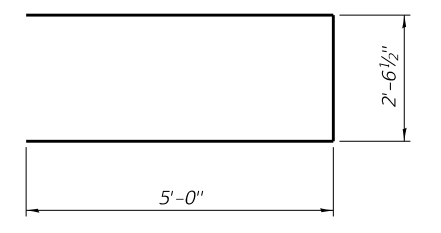
SECTION B-B



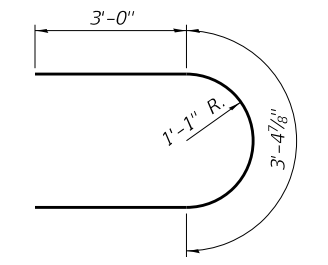
BAR s3(E)



BAR s2(E)



BAR u1(E)



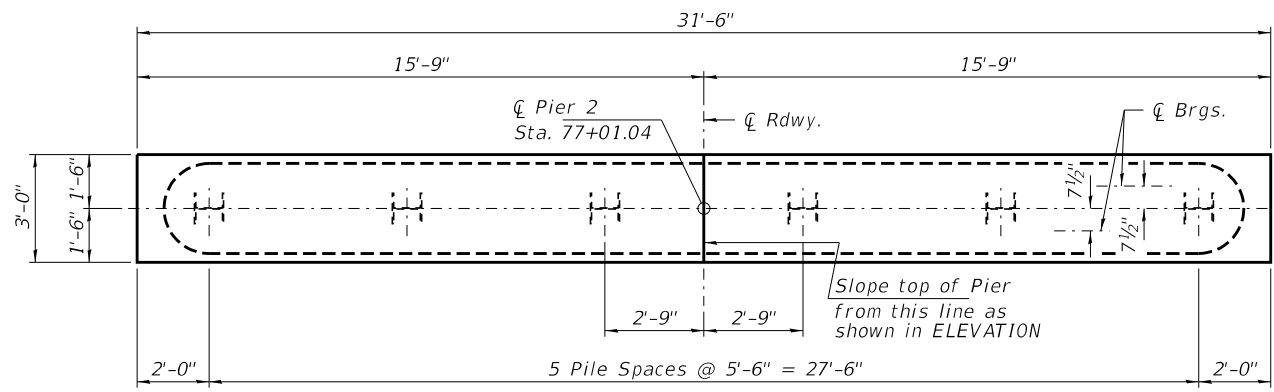
BAR u2(E)

BILL OF MATERIAL - PIER 1

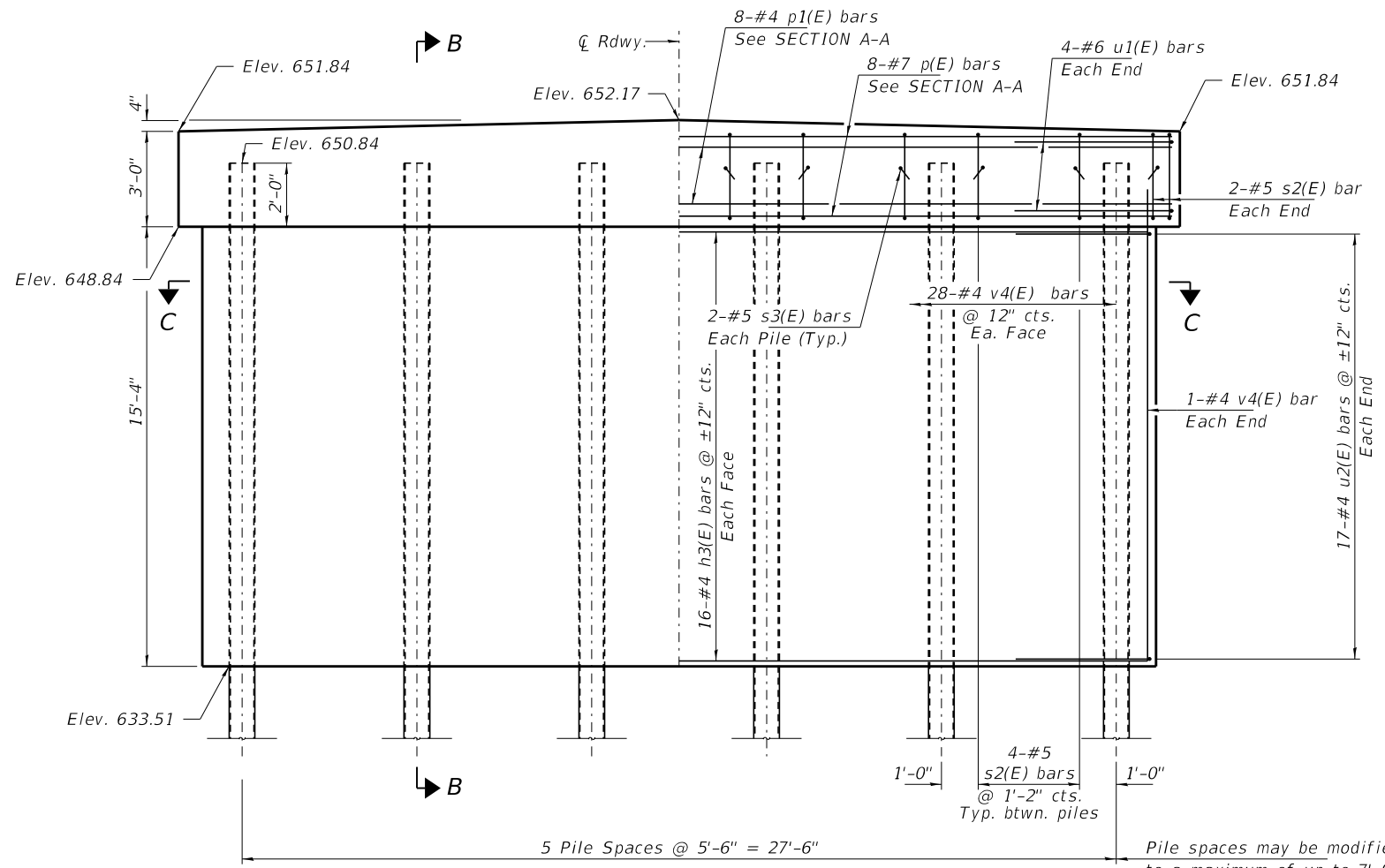
BAR	NO.	SIZE	LENGTH	SHAPE
h3(E)	32	#4	27'-6"	—
p(E)	8	#7	31'-2"	—
p1(E)	8	#4	31'-2"	—
s2(E)	34	#5	11'-7"	□
s3(E)	12	#5	3'-10"	┌┐
u1(E)	8	#6	12'-7"	┌┐
u2(E)	26	#4	9'-5"	┌┐
v4(E)	58	#4	16'-8"	—
Cofferdam (Type 1) (Location - 1)	Each			1
Concrete Structures			Cu. Yd.	52.6
Reinforcement Bars, Epoxy Coated			Pound	2,680
Furnishing Steel Piles HP10x42			Foot	360

PILE DATA

Type _____ Steel HP10x42
 No. Req'd. _____ 6
 Factored Resistance Available (Rf) _____ 184 Kips/Pile
 Nominal Required Bearing (Rn) _____ 335 Kips/Pile
 Est. Length _____ 60 Ft/Pile

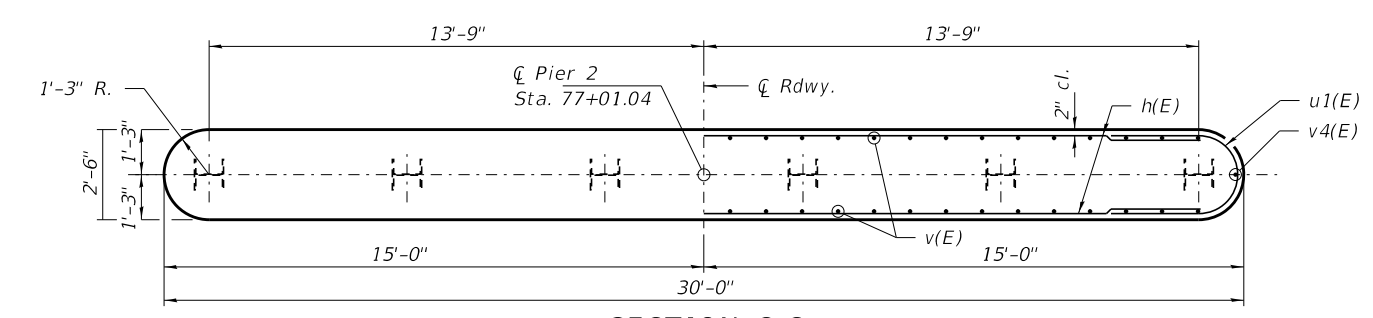


PLAN

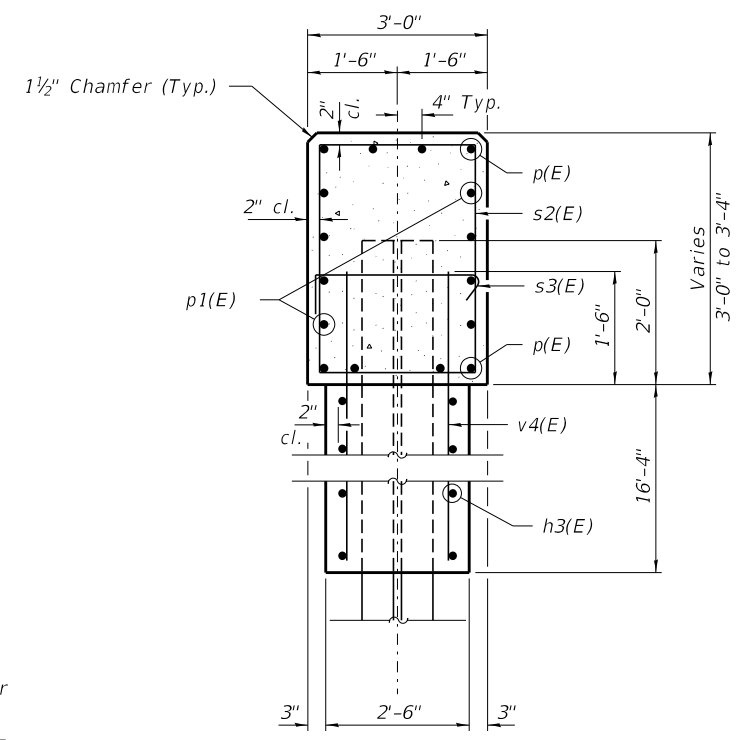


ELEVATION

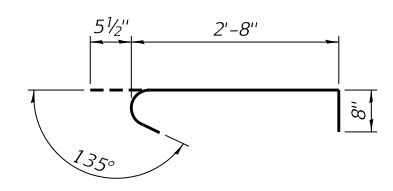
Pile spaces may be modified to a maximum of up to 7'-0" to avoid existing piling as approved by the Engineer.



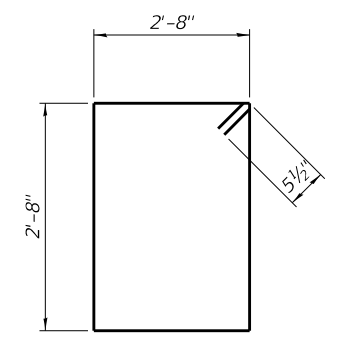
SECTION C-C



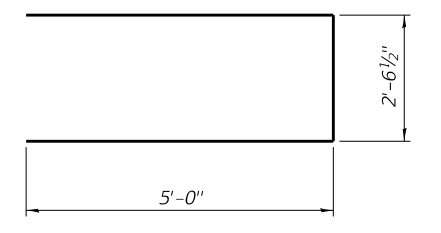
SECTION B-B



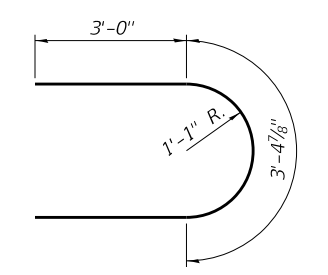
BAR s3(E)



BAR s2(E)



BAR u1(E)



BAR u2(E)

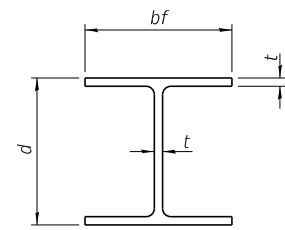
BILL OF MATERIAL - PIER 2

BAR	NO.	SIZE	LENGTH	SHAPE
h3(E)	32	#4	27'-6"	—
p(E)	8	#7	31'-2"	—
p1(E)	8	#4	31'-2"	—
s2(E)	34	#5	11'-7"	□
s3(E)	12	#5	3'-10"	U
u1(E)	8	#6	12'-7"	U
u2(E)	26	#4	9'-5"	U
v4(E)	58	#4	16'-8"	—
Cofferdam (Type 1) (Location - 2)	Each			1
Concrete Structures	Cu. Yd.			52.6
Reinforcement Bars, Epoxy Coated	Pound			2,680
Furnishing Steel Piles HP10x42	Foot			300
Test Piles Steel HP10x42	Each			1

PILE DATA

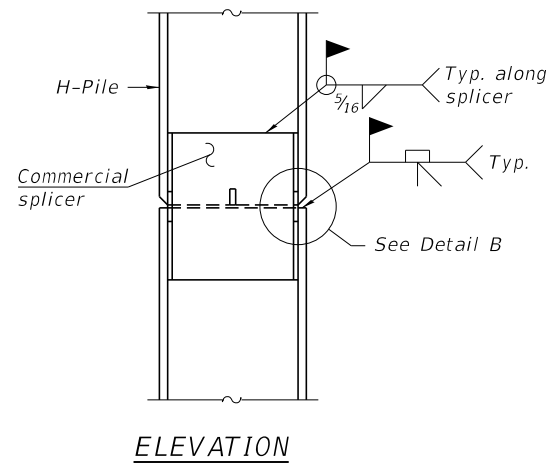
Type _____ Steel HP10x42
 No. Req'd. _____ 6*
 Factored Resistance Available (Rf) _____ 184 Kips/Pile
 Nominal Required Bearing (Rn) _____ 335 Kips/Pile
 Est. Length _____ 60 Ft/Pile

Notes:
 * Includes one test pile to be driven in a permanent location at Pier 2.
 The test pile shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

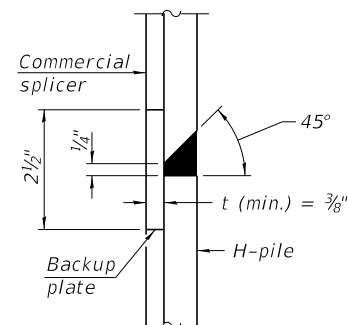


STEEL PILE TABLE

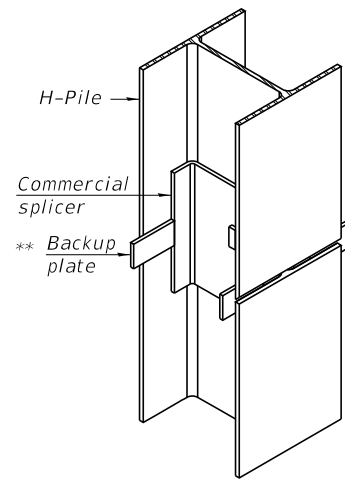
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
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"



ELEVATION

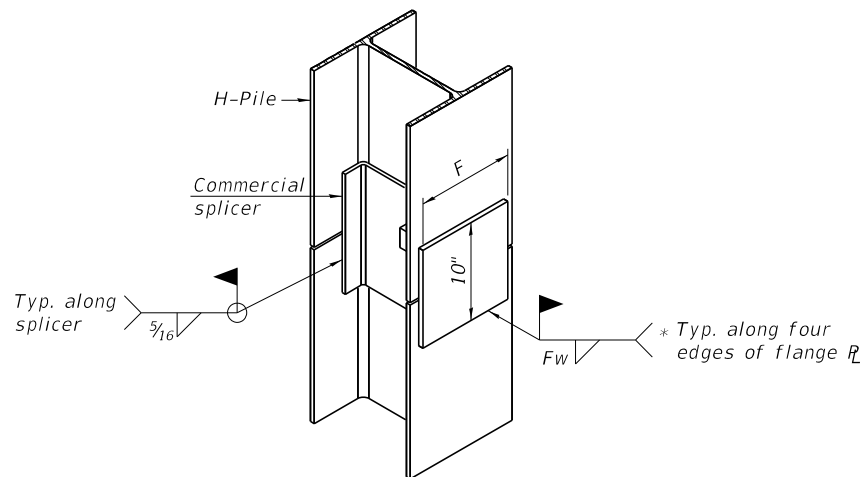


DETAIL "B"



ISOMETRIC VIEW

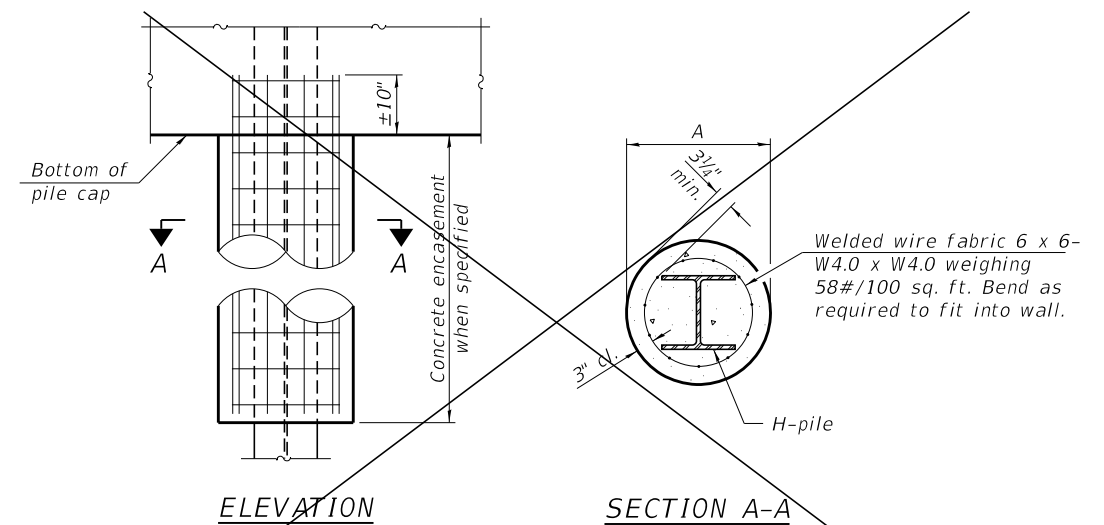
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

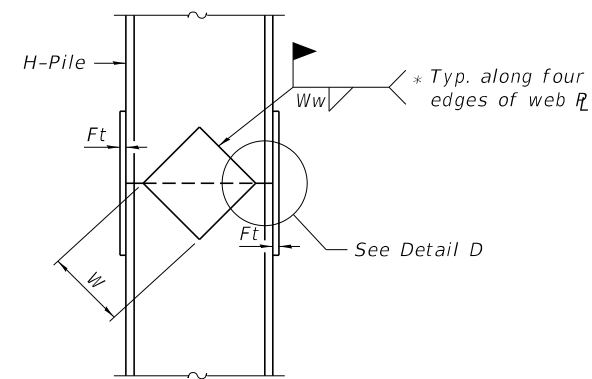
- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).



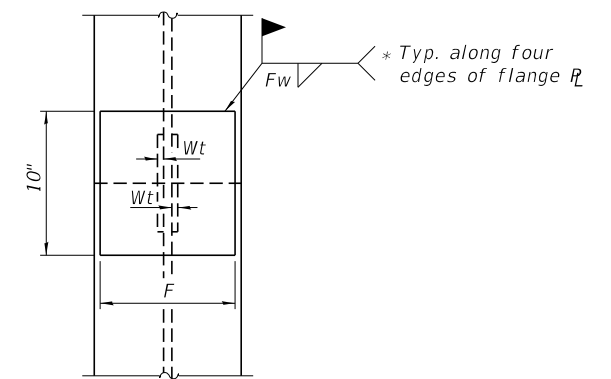
ELEVATION

SECTION A-A

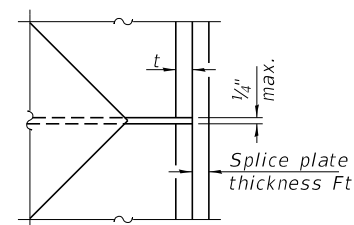
INDIVIDUAL PILE CONCRETE ENCASUREMENT
(Forms for encasement may be omitted when soil conditions permit.)
(Not Required)



ELEVATION



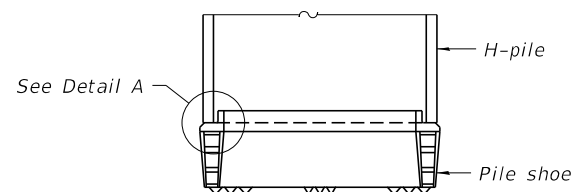
END VIEW



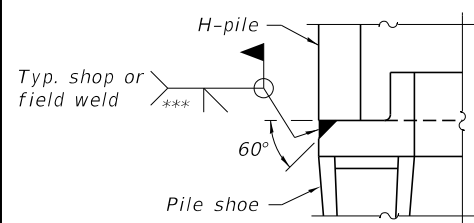
DETAIL D

WELDED PLATE FIELD SPLICE

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"	1 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 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 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"



ELEVATION



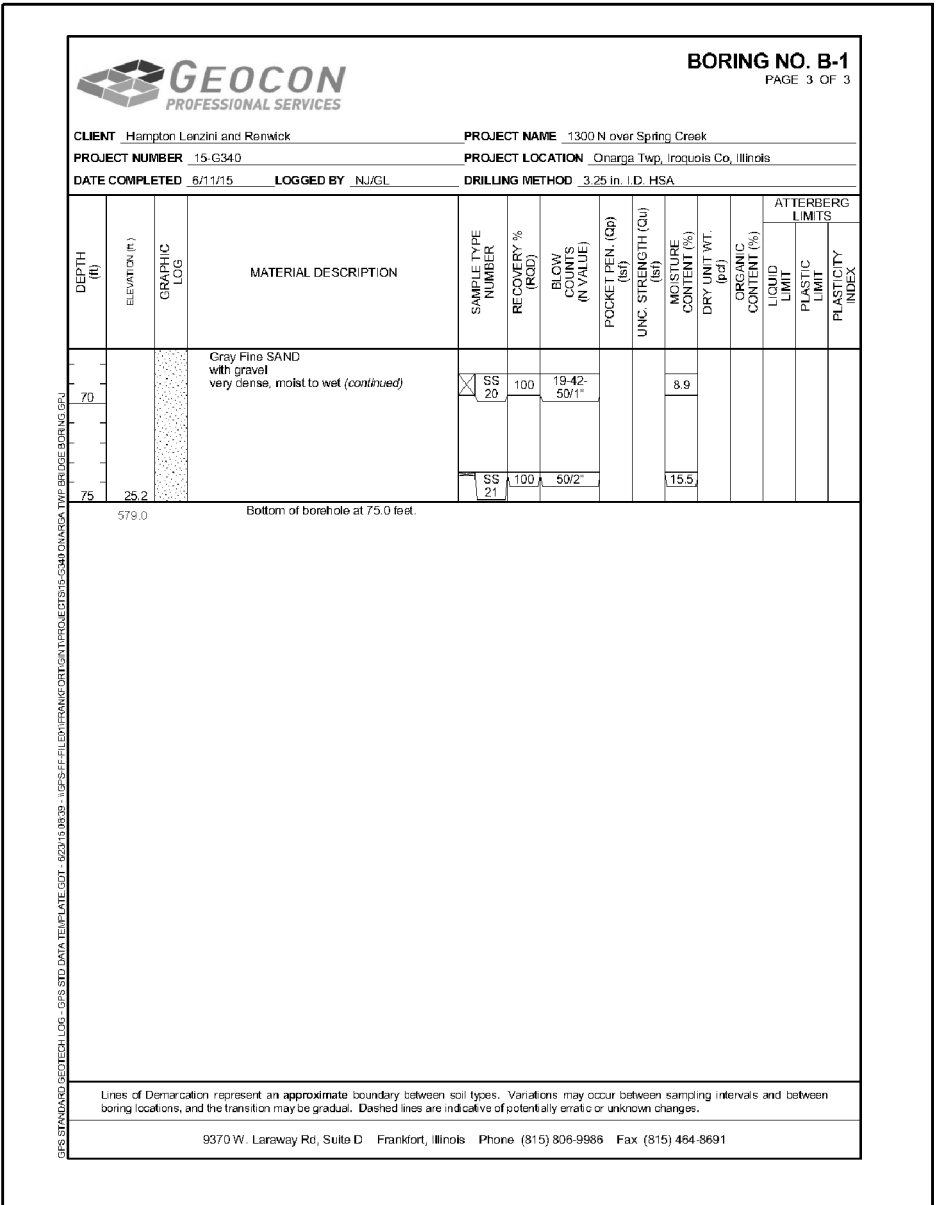
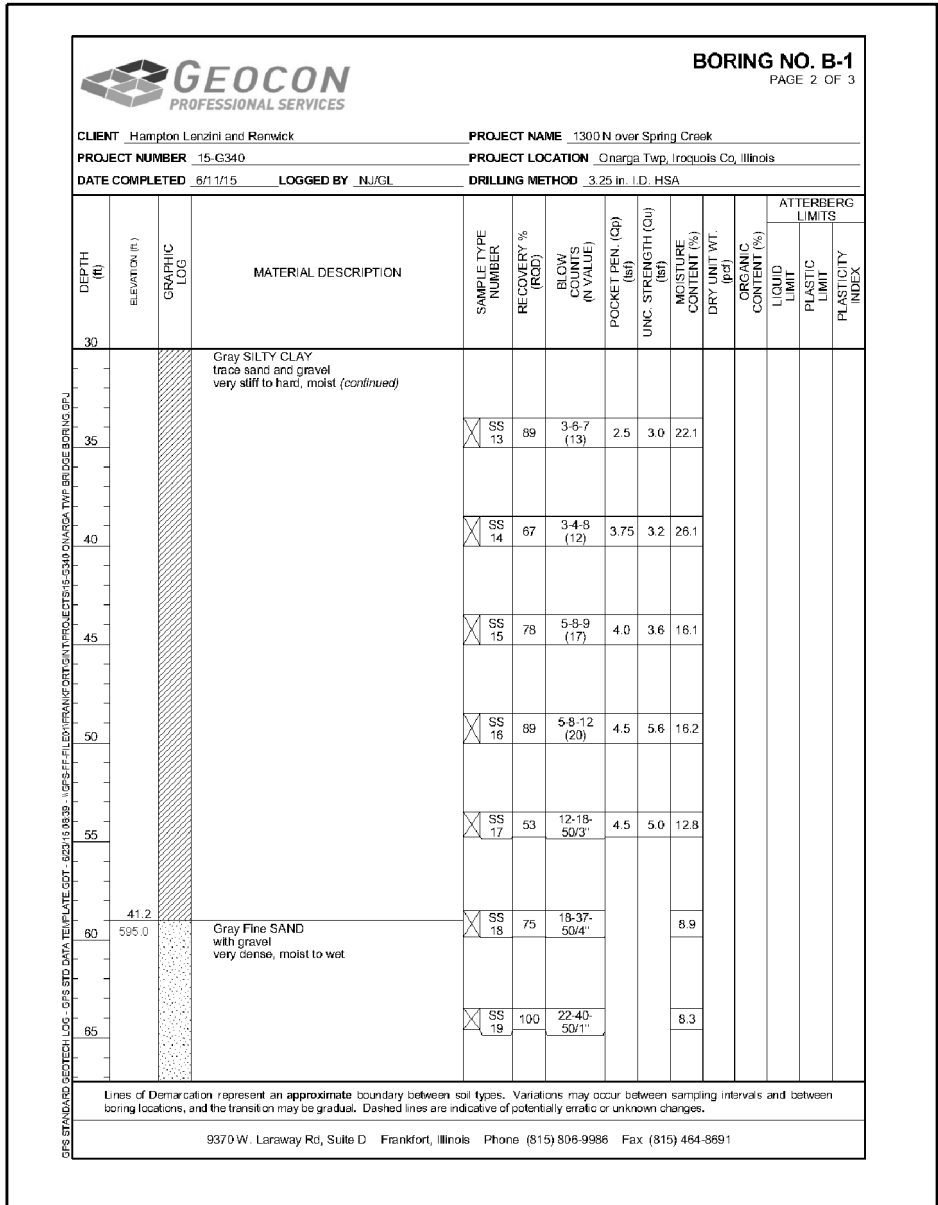
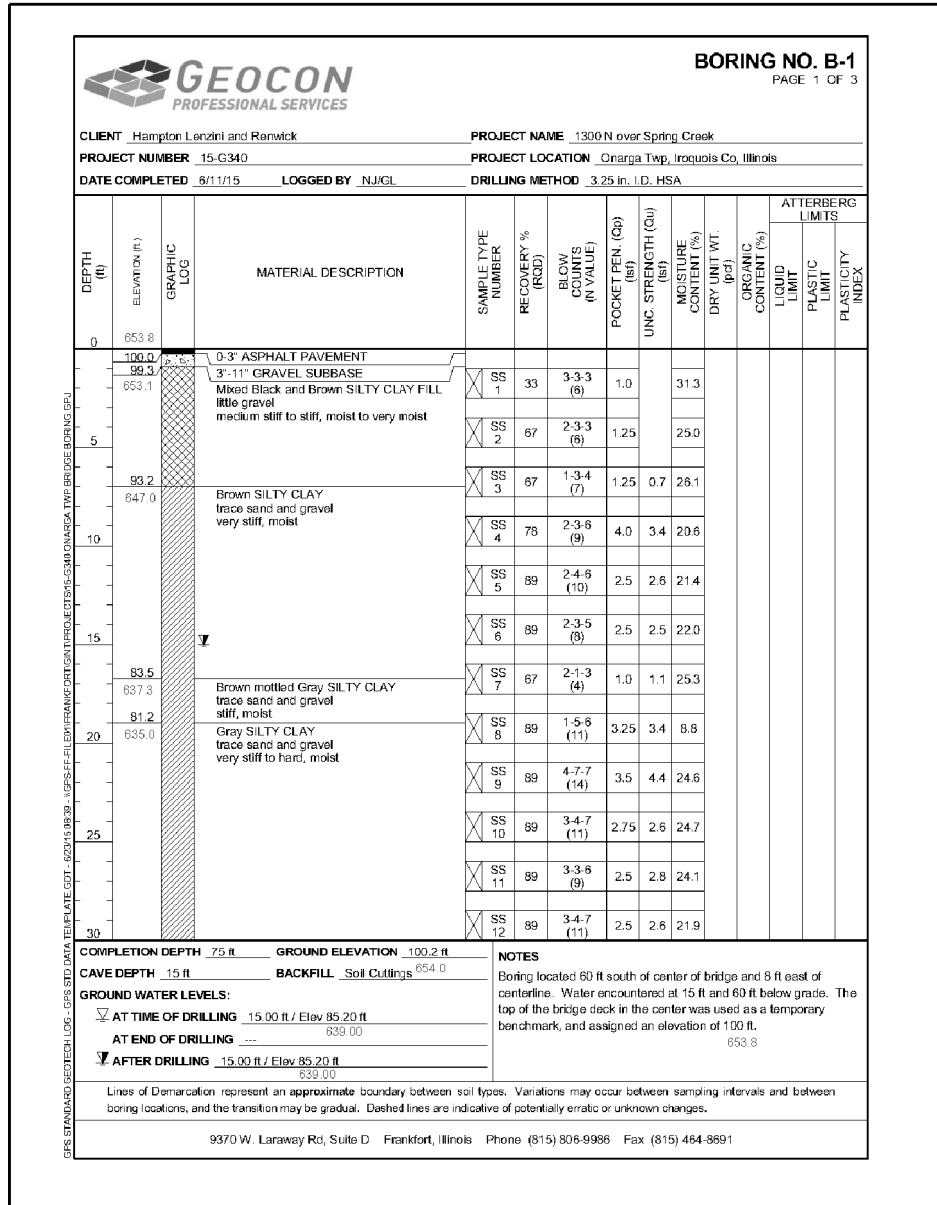
DETAIL A

SHOE ATTACHMENT

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

F-HP 8-11-2017

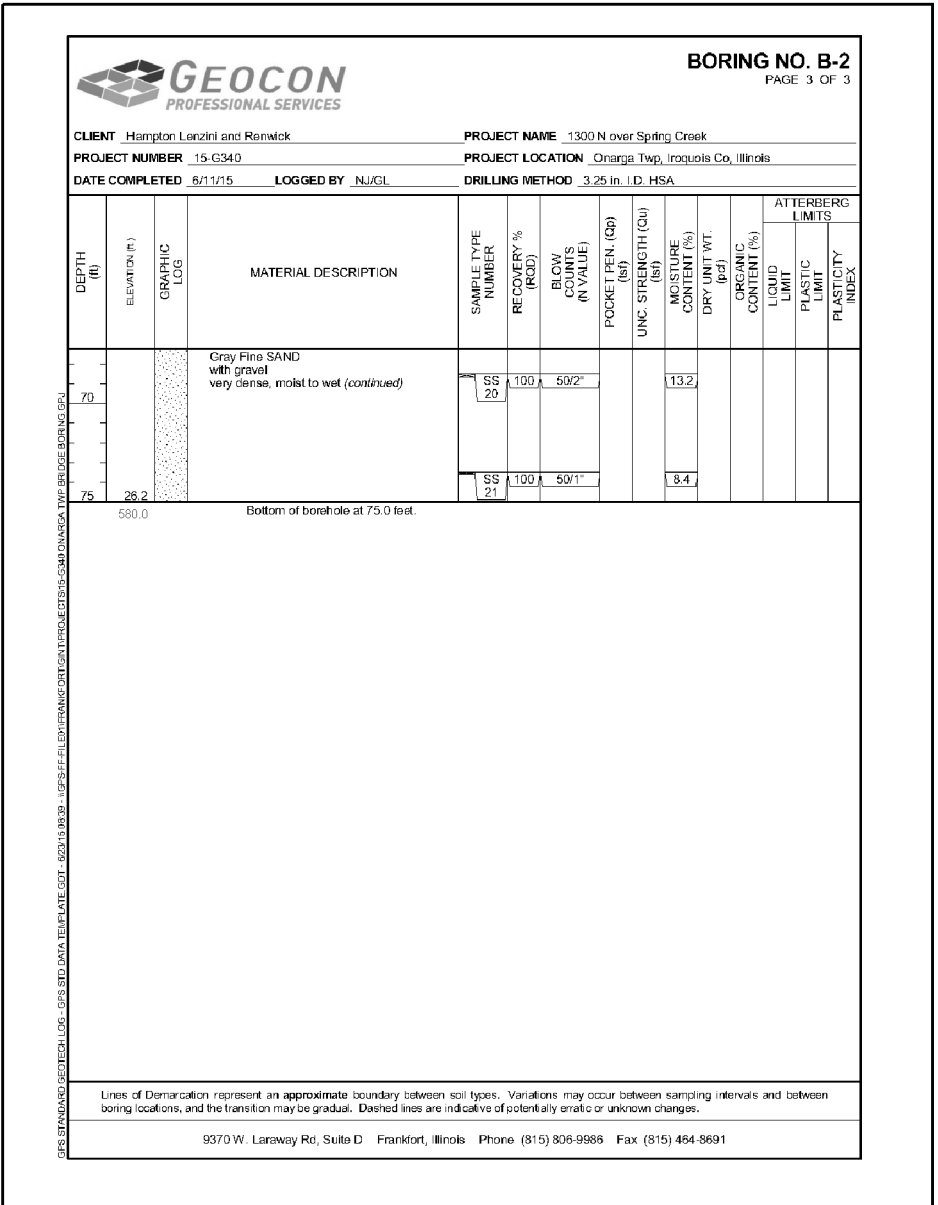
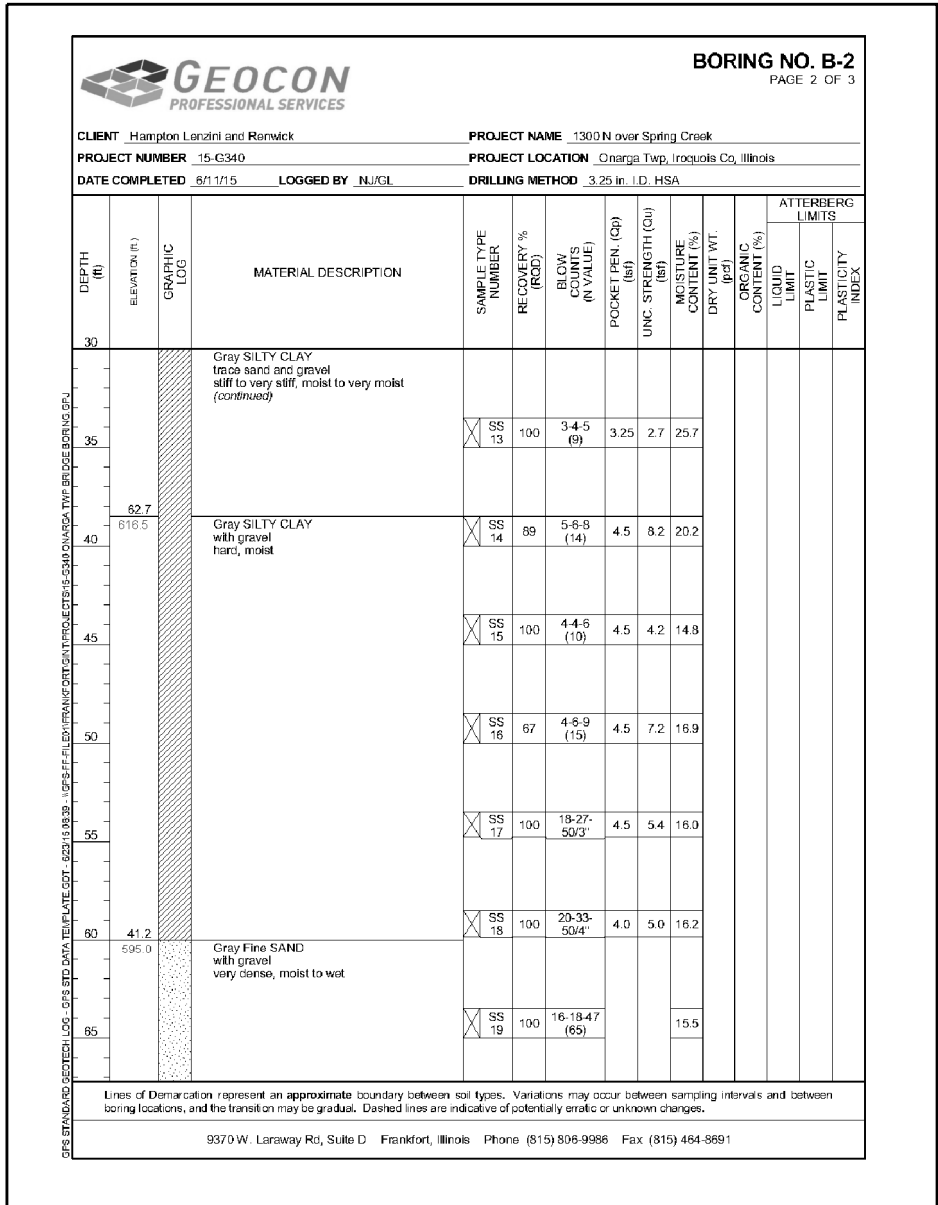
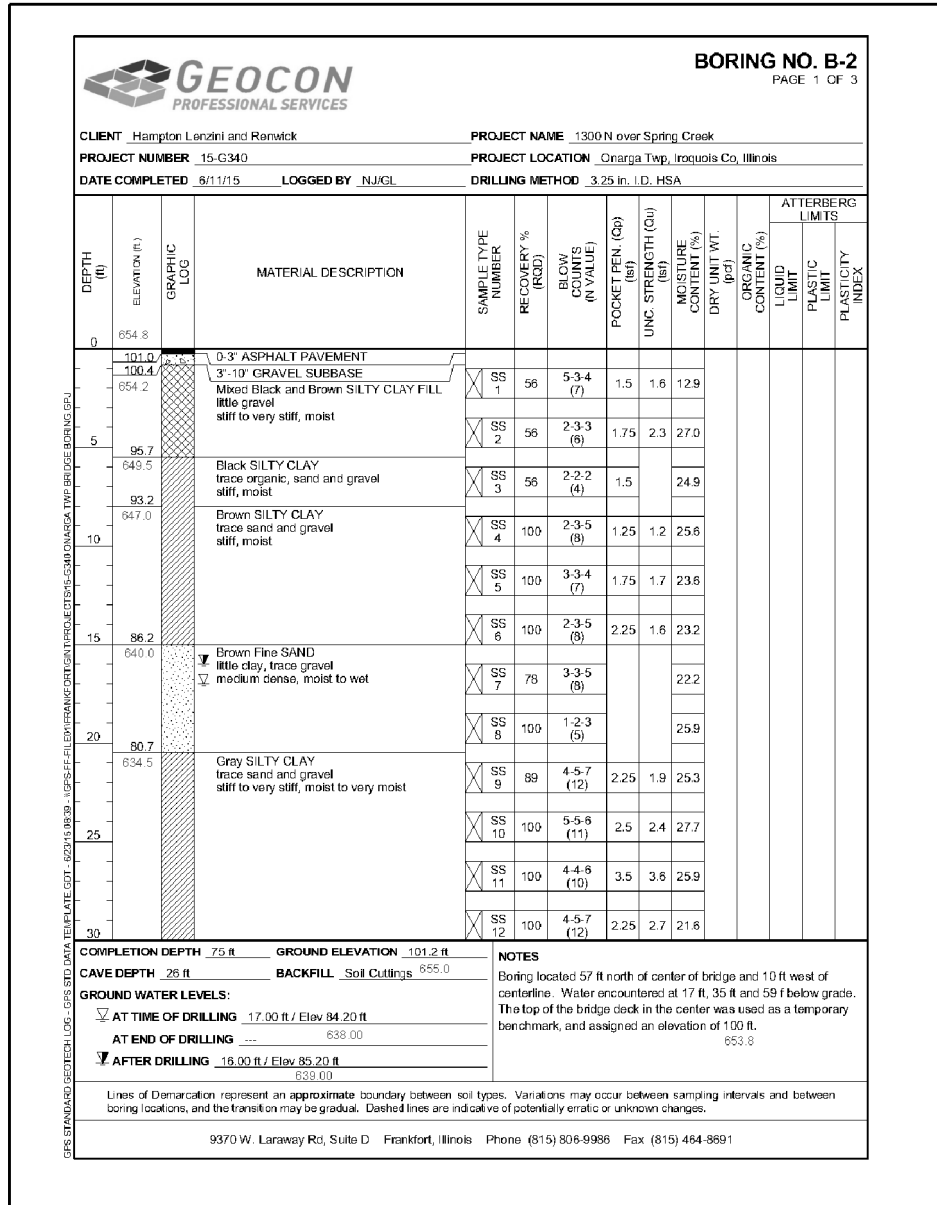
FILE NAME = 150177-shi-bridge.dgn	USER NAME = rmosck	DESIGNED - J.R.B.	REvised -	STATE OF ILLINOIS IROQUOIS COUNTY HIGHWAY DEPARTMENT	HP PILE DETAILS STRUCTURE NO. 038-4939	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.W.M.	REvised -			74	14-20101-00-BR	IROQUOIS	37	19
	PLOT DATE = 3/11/2019	DRAWN - M.M.P.	REvised -			ONARGA ROAD DISTRICT		CONTRACT NO. 87691		
		CHECKED - S.W.M.	REvised -			SHEET NO. 11 OF 18 SHEETS				



BORING-1

FILE NAME = 150177-shi-bridge.dgn	USER NAME = rmosick	DESIGNED - J.R.B.	REVISED -	STATE OF ILLINOIS IROQUOIS COUNTY HIGHWAY DEPARTMENT	BORINGS STRUCTURE NO. 038-4939	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184.000959		CHECKED - S.W.M.	REVISED -			74	14-20101-00-BR	IROQUOIS	37	20
	PLOT SCALE =	DRAWN - M.M.P.	REVISED -			ONARGA ROAD DISTRICT		CONTRACT NO. 87691		
	PLOT DATE = 3/11/2019	CHECKED - S.W.M.	REVISED -			ILLINOIS		FED. AID PROJECT 3H72(853)		

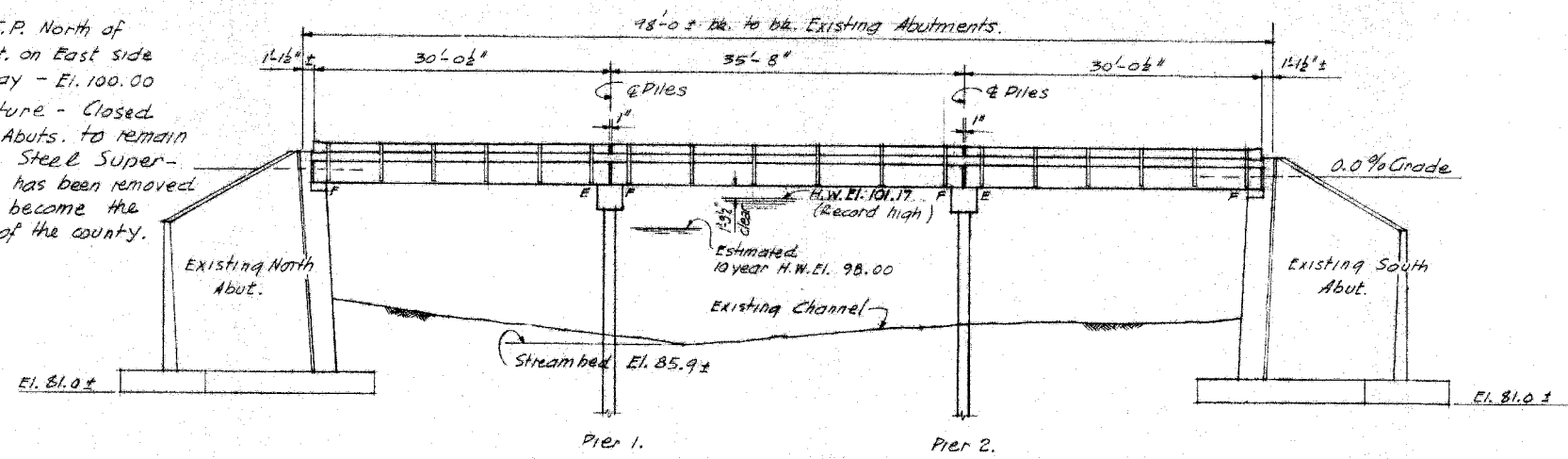
SHEET NO. 12 OF 18 SHEETS



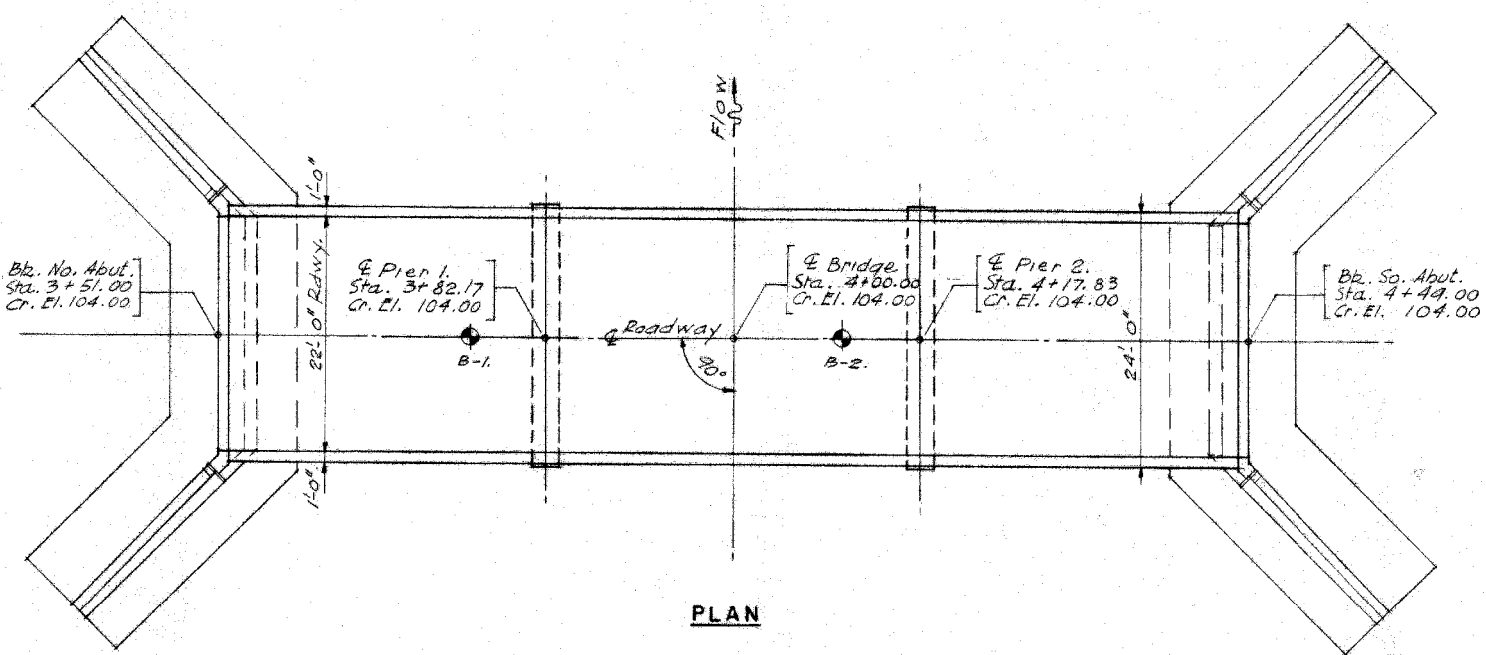
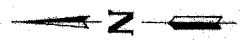
BORING-2

FILE NAME = 150177-shi-bridge.dgn	USER NAME = rmosck	DESIGNED - J.R.B.	REVISED -	STATE OF ILLINOIS IROQUOIS COUNTY HIGHWAY DEPARTMENT	BORINGS STRUCTURE NO. 038-4939	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -			74	14-20101-00-BR	IROQUOIS	37	21
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184.009959	PLOT SCALE =	DRAWN - M.M.P.	REVISED -			ONARGA ROAD DISTRICT		CONTRACT NO. 87691		
	PLOT DATE = 3/11/2019	CHECKED - S.W.M.	REVISED -			SHEET NO. 13 OF 18 SHEETS		ILLINOIS FED. AID PROJECT 3H72(853)		

B.M. - Spike in T.P. North of North Abut. on East side of roadway - El. 100.00
 Existing Structure - Closed Concrete Abut. to remain in place. Steel Superstructure has been removed and will become the property of the county.



ELEVATION



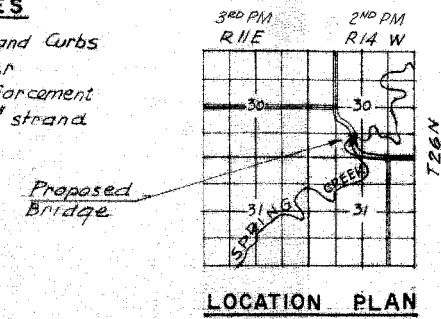
PLAN

BRIDGE NO. 4.
 ONARGA ROAD DISTRICT
 BUILT 196
 IROQUOIS COUNTY
 LOADING H15-S12-44

LETTERING FOR NAME PLATE
 Locate Name Plate at the Northeast corner of bridge. See Special Provisions.

WATERWAY DATA
 Drainage Area 108,000 Acres
 Present Opening * 1,220 Sq. Ft.
 Required Opening (10Yr) 940 Sq. Ft.
 Proposed Opening (10Yr) 940 Sq. Ft.
 *Below H.W. El. 101.17 (Record)

DESIGN STRESSES
 f_c 1,400 p.s.i. Sub and Curbs
 f_c 2,000 p.s.i. Super
 f_s 20,000 p.s.i. Reinforcement
 f_s 18,900 lbs. per 7/16" strand

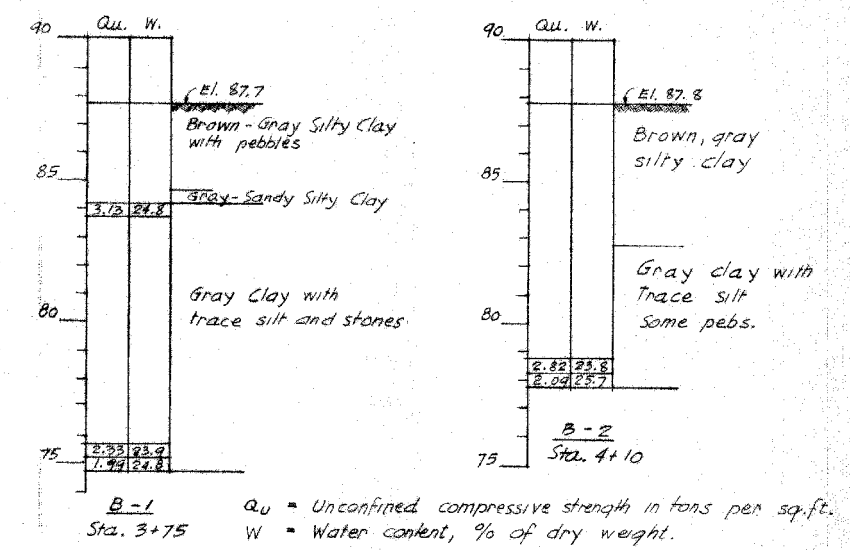


LOCATION PLAN

Loading H15-S12-44

GENERAL NOTES

Class X concrete shall be used in pile bent caps, in abut. seats and in curbs.
 The contractor shall drive one test pile in permanent location as directed by the Engineer, before ordering the remainder of the piles.
 Bent piles shall penetrate a minimum of 15'-0" below stream-bed elevation.
 For items: Metal Plate Bridge Rail, Name Plate, Bituminous Surface Treatment subclass A-3 and Shaping Roadway, see Special Provisions.



BORING DATA

TOTAL BILL OF MATERIAL

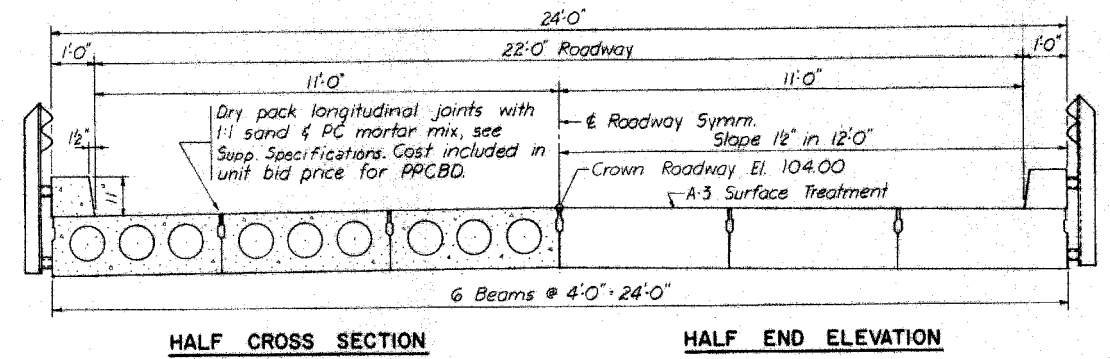
	I	T	E	M	SUPER	SUB	TOTAL
Bituminous Surface Treatment, Subclass A-3, Sq. Yds.					240	—	240
Precast Prestressed Concrete							
Bridge Deck				Sq. Ft.	2294	—	2294
Class X Concrete				Cu. Yds.	6.1	15.9	22.0
Reinforcement Bars				Lbs.	—	1420	1420
Furnishing Precast Concrete Piles, 14"				Lin. Ft.	—	203	203
Test Pile, Precast Concrete				Each	—	1	1
Driving Precast Concrete Piles, 14"				Lin. Ft.	—	203	203
Name Plate				Each	1	—	1
Metal Plate Bridge Rail				Lin. Ft.	185	—	185
Shaping Roadway				Sq.	—	—	100
Gravel or Crushed Stone Surface Course, Type A Tons					—	—	53

Carl Rebot Jr.
 Illinois Structural #2695

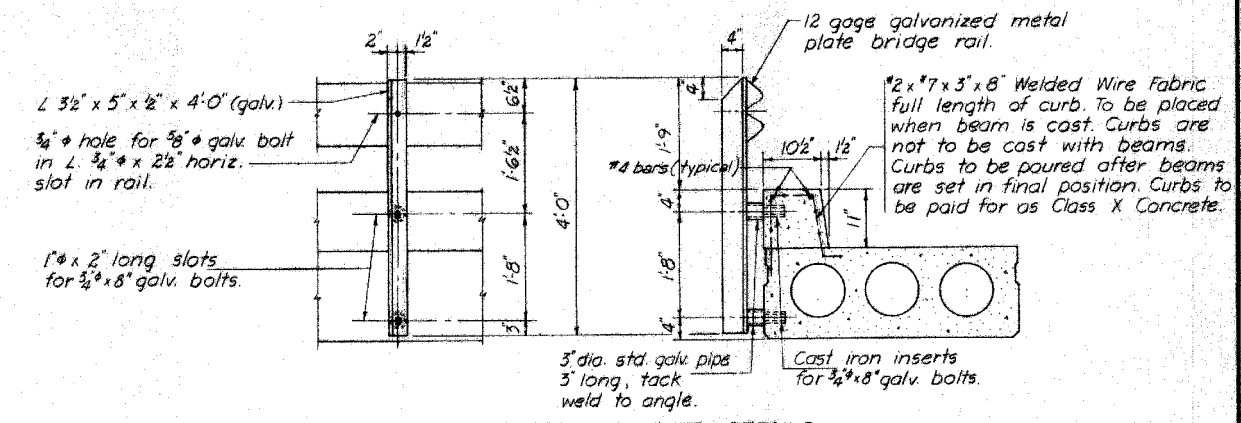


GENERAL PLAN AND ELEVATION
BRIDGE 4
 ONARGA ROAD DISTRICT
 IROQUOIS COUNTY
 STATION 4+00

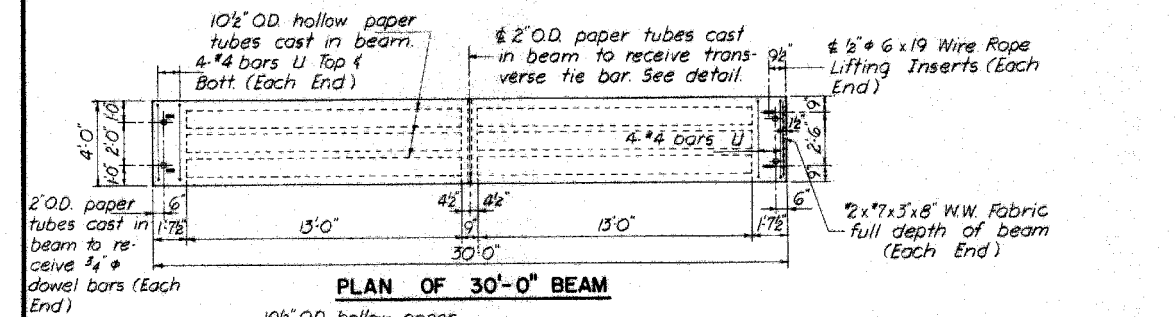
WALTER E. HANSON & COMPANY
 ENGINEERS-CONSULTANTS
 DESIGNED D.D.O. DRAWN G.L. DATE Dec. 4-1963.
 CHECKED G.L. CHECKED C.R. NO. 63-54.



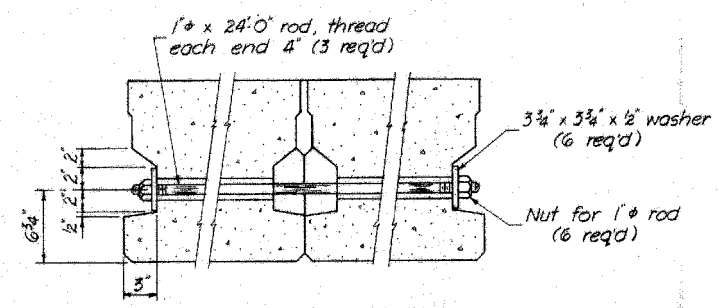
HALF CROSS SECTION HALF END ELEVATION



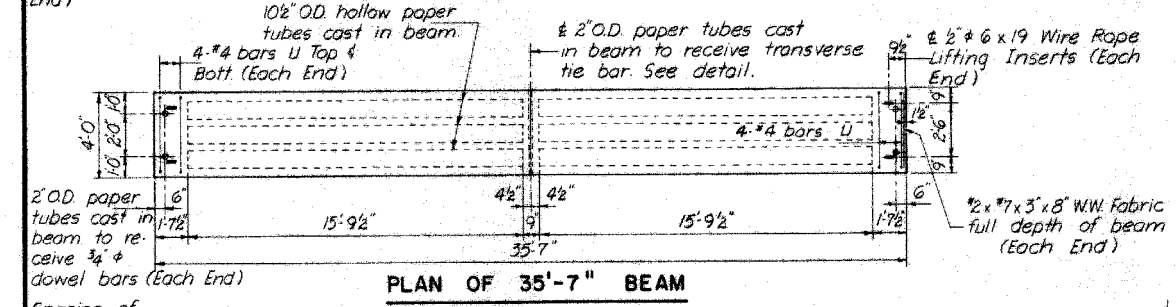
HANDRAIL & CURB DETAILS



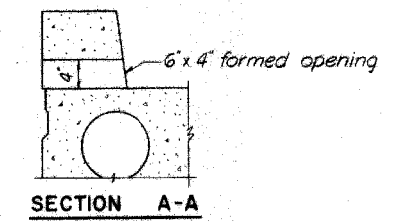
PLAN OF 30'-0" BEAM



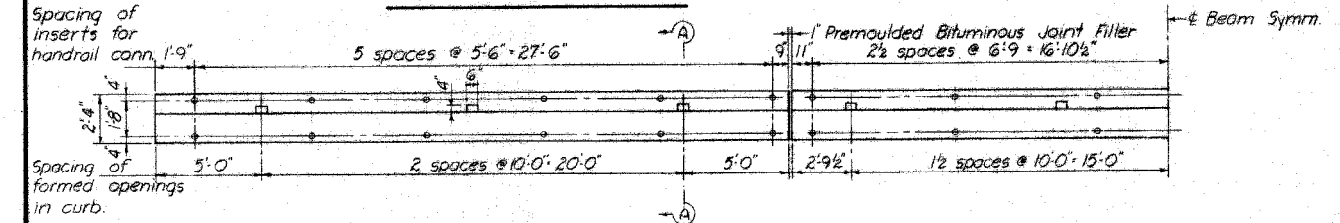
TYPICAL TRANSVERSE TIE ASSEMBLY



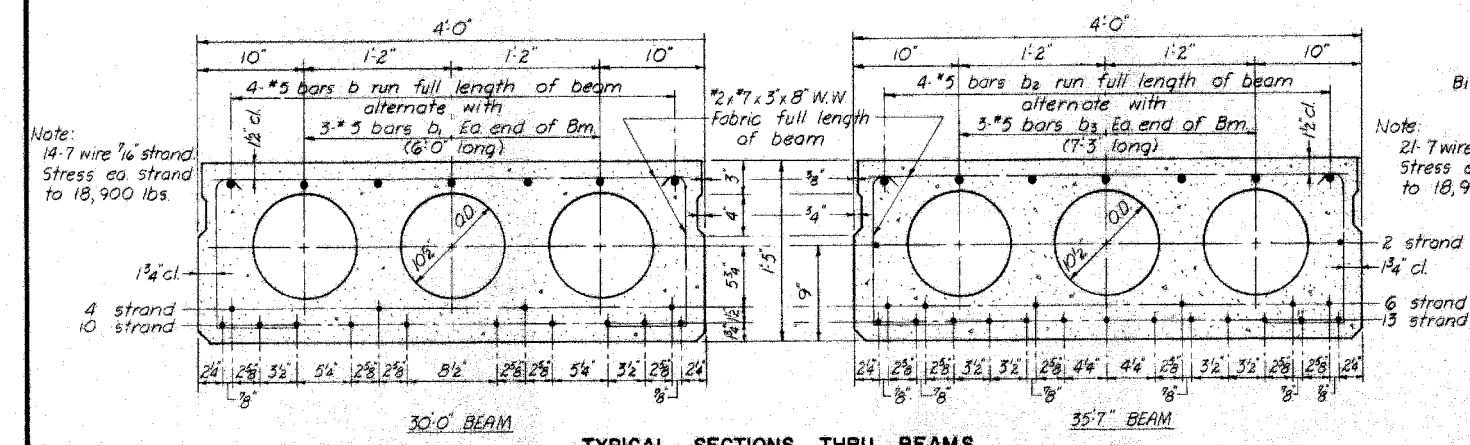
PLAN OF 35'-7" BEAM



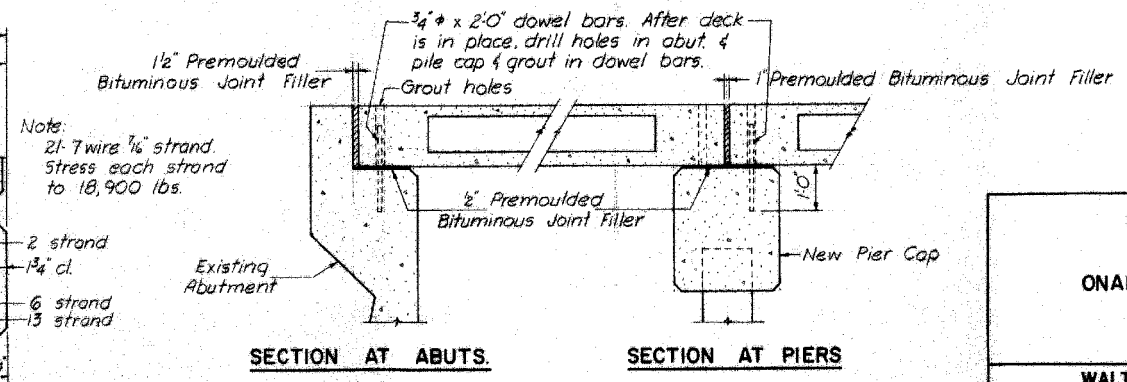
SECTION A-A



ELEVATION OF OUTSIDE BEAMS



TYPICAL SECTIONS THRU BEAMS



SECTION AT ABUTS.

SECTION AT PIERS

BILL OF MATERIAL - SUPERSTRUCTURE

ITEM	UNIT	QUANT
Precast Prestressed Concrete Bridge Deck	Sq. Ft.	2294
Class X Concrete	Cu Yds.	6.1
Metal Plate Bridge Rail	Lin. Ft.	185
Bituminous Surface Treatment, Subclass A-3	Sq. Yds.	240

* Reinforcement bars, wire fabric, strands and the hardware are incidental to the item 'Precast Prestressed Concrete Bridge Deck.'

**SUPERSTRUCTURE
BRIDGE 4
ONARGA ROAD DISTRICT
IROQUOIS COUNTY
STATION 4+00**

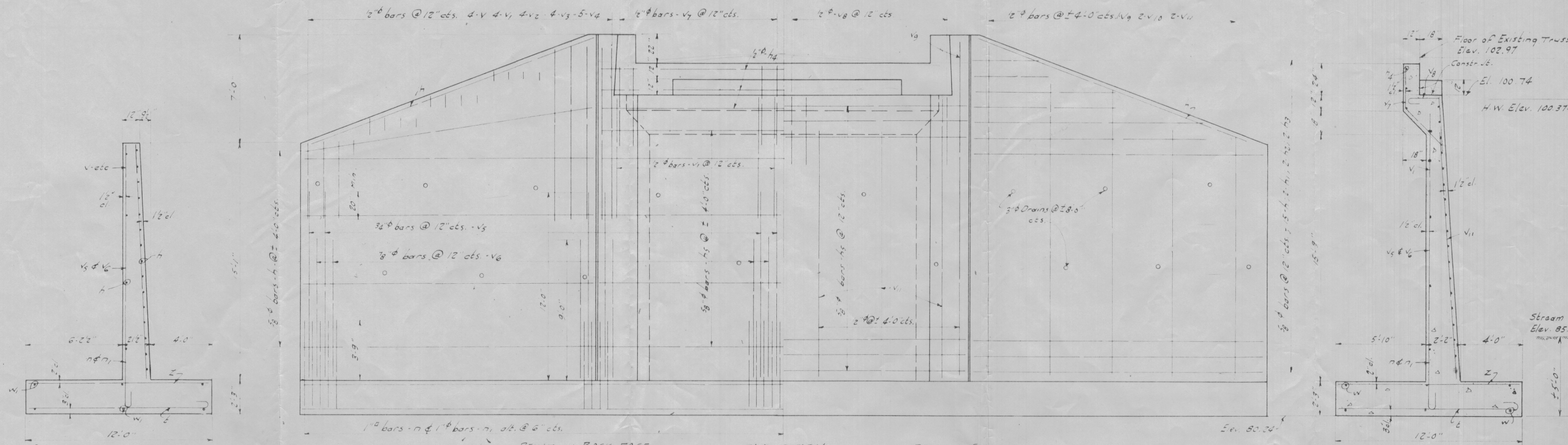
WALTER E. HANSON & COMPANY
ENGINEERS - CONSULTANTS

DESIGNED	DDO	DRAWN	KLO	DATE	Dec 4, 1963
CHECKED	GL	CHECKED	CR	NO.	63-54

3 M. Spike & washer in Oak Tree 100' south of bridge on west side of road.
Existing Structure 92' Truss 14.1' Edwy. Stone masonry
So. Abut shall be removed by Concr See Note.

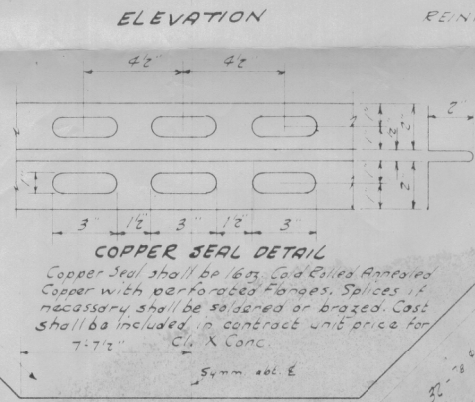
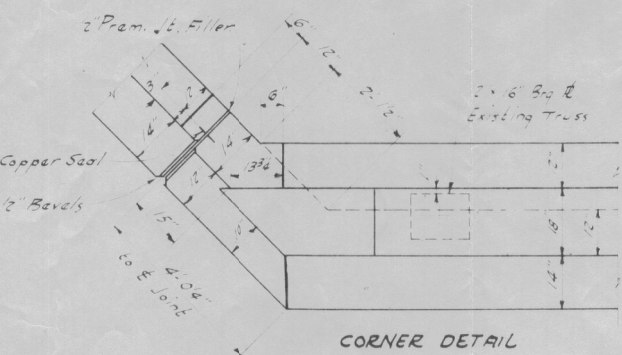
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

BOND ISSUE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	14-20101-00-BR	IROQUOIS	37	24
FED. ROAD DIST. NO. 7			ILLINOIS FED. AID PROJECT	



BORING DATA

Yellow Clay	86.0
Blue Clay with sand	83.0
Blue Clay	78.0



BILL OF MATERIAL ONE ABUTMENT

Bar	No.	Size	Length	Shape
V	8	1/2"	5'-0"	
V1	30	"	6'-6"	
V2	8	"	8'-0"	
V3	8	"	9'-6"	
V4	10	"	11'-0"	
V5	64	3/8"	2'-0"	
V6	63	3/8"	9'-0"	
V7	22	1/2"	5'-6"	
V8	22	"	7'-6"	
V9	4	"	21'-6"	
V10	4	"	19'-0"	
V11	10	"	16'-0"	
n	44	5/8"	18'-3"	
n1	4	"	14'-6"	
n2	4	"	9'-0"	
n3	4	"	4'-0"	
n4	3	1/2"	24'-0"	
n5	46	5/8"	15'-0"	
n	64	1/2"	7'-0"	
n1	63	1/2"	7'-0"	
z	86	3/8"	12'-9"	
z	85	3/8"	11'-6"	
w	6	1/2"	25'-0"	
w	12	1/2"	23'-0"	

Cl. X Conc. C-461.128.5
Reinf Bars L-11980
Removal of Exist. Struct. Ea. 1

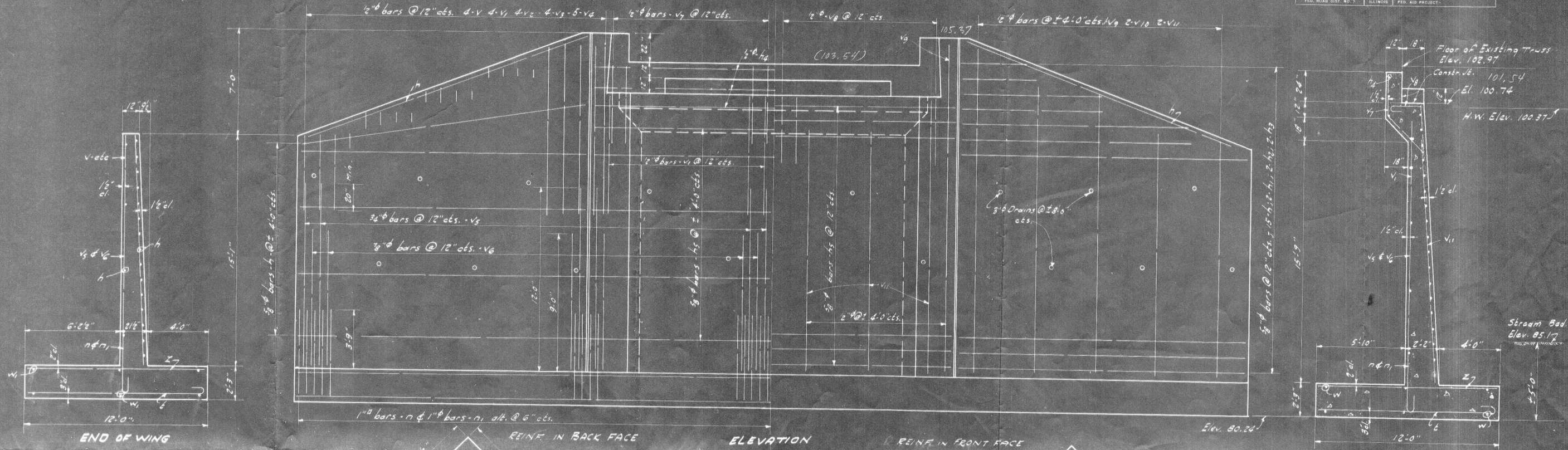
GENERAL NOTES
Cl. X Conc. shall be used thru-out
Boring Data are shown only as a guide to bidders in estimating soil conditions which may be encountered in the work.
The item 'Removal of Existing Structure' shall include the removal of the old masonry South abutment, the supporting of the existing truss, and the placing of the truss on the new abutment.

COMPUTED	N.P. Owen	EXAMINED	[Signature]
CHECKED	Harry P. Graham	PASSED	[Signature]
DRAWN	N.P.O.	APPROVED	[Signature]
CHECKED	H.P.G.		
ASSEMBLED			
CHECKED			

B.M. Spike & washer in Oak tree 100' south of bridge on west side of road.
 Existing Structure 92' Truss 14.1' Rdwy. Stone masonry abutts.
 No Abutts. shall be removed by Contr. See Note.

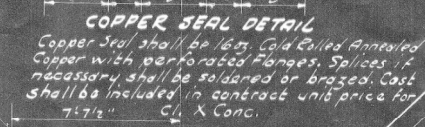
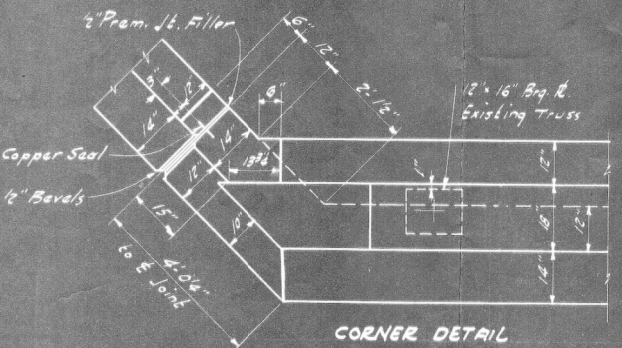
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



BORING DATA

Yellow clay	82.0
Red clay with sand	83.0
Blue clay	78.0



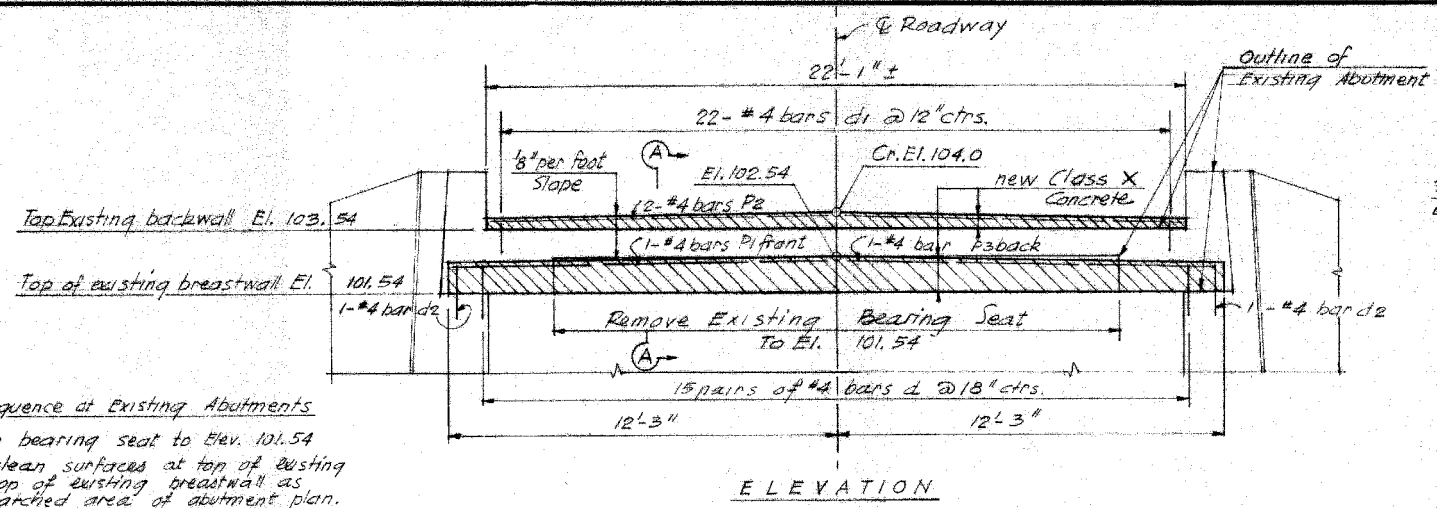
SEC. A-A
BILL OF MATERIAL ONE ABUTMENT

Bar No.	Size	Length	Shape
V	3/4"	5'-0"	
V1	3/8"	6'-6"	
V2	8"	8'-0"	
V3	8"	9'-6"	
V4	10"	11'-0"	
V5	6#	12'-0"	
V6	6#	9'-0"	
V7	22	5'-6"	
V8	22	7'-6"	
V9	4	21'-6"	
V10	4	19'-0"	
V11	10	16'-0"	
h	4#	18'-3"	
h1	4	14'-6"	
h2	4	9'-0"	
h3	4	4'-0"	
h4	3	24'-0"	
h5	46	15'-0"	
n	6#	7'-0"	
n1	6#	7'-0"	
s	86	12'-9"	
z	85	11'-6"	
w	6	25'-0"	
w1	12	23'-0"	

Cl. X Conc. Cu Yds. 128.5
 Reinf. Bars Lbs. 11,980
 Removal of Exst. Struct. Ea. 1

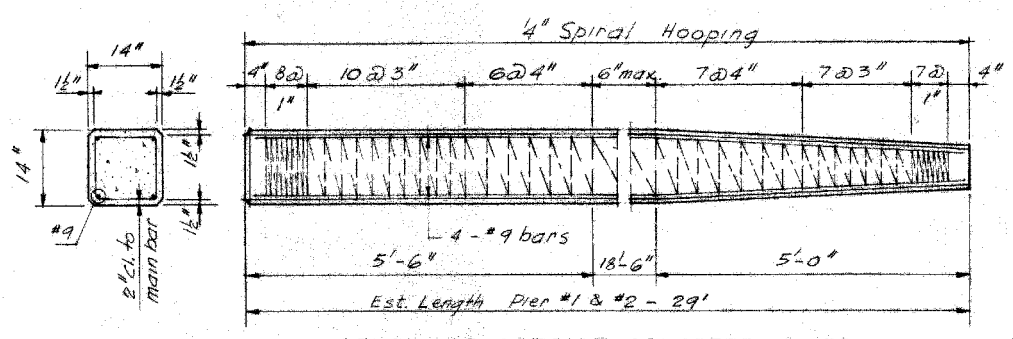
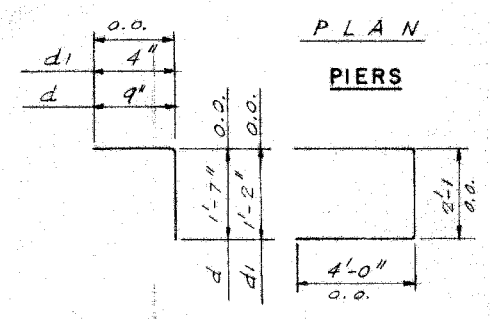
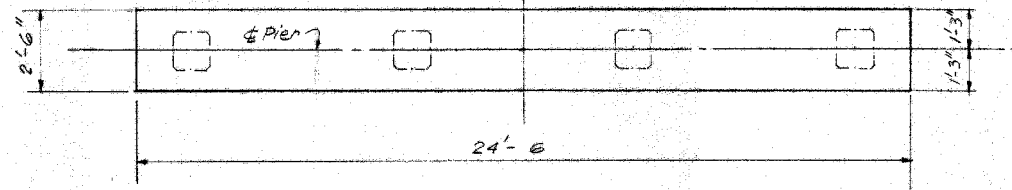
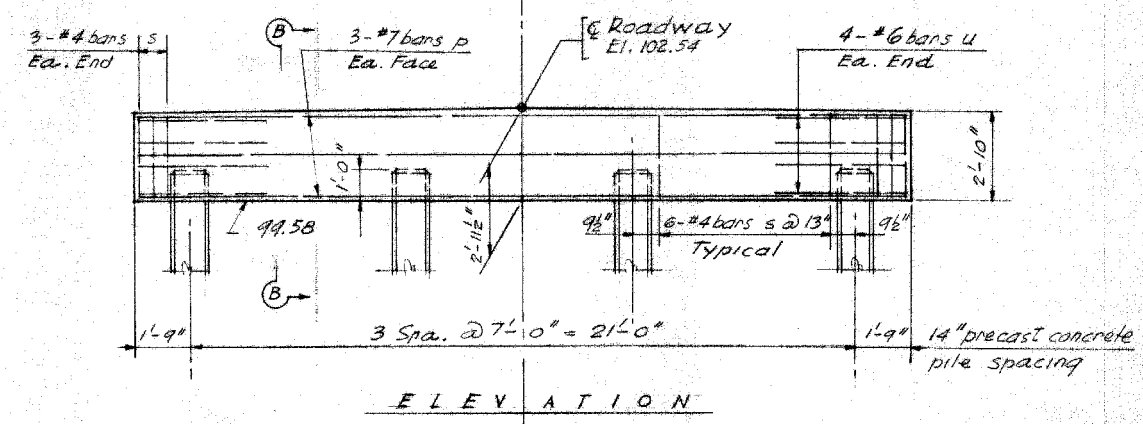
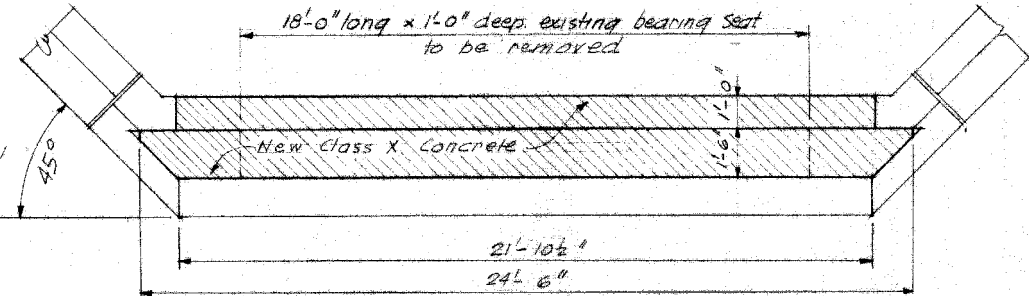
GENERAL NOTES
 Cl. X Conc. shall be used thru-out.
 Boring Data are shown only as a guide to bidders in estimating soil conditions which may be encountered in the work.
 The item "Removal of Existing Structure" shall include the removal of the old masonry north abutment, the supporting of the existing truss, and the placing of the truss on the new abutment.

COMPUTED	N.P. Owens	EXAMINED	6-21-1948
CHECKED	Harry P. Abraham	DESIGNED	J.R.B.
DRAWN	H.P.G.	CHECKED	S.W.M.
CHECKED	H.P.G.	DRAWN	M.M.P.
ASSEMBLED		CHECKED	S.W.M.
CHECKED		REVISIONS	



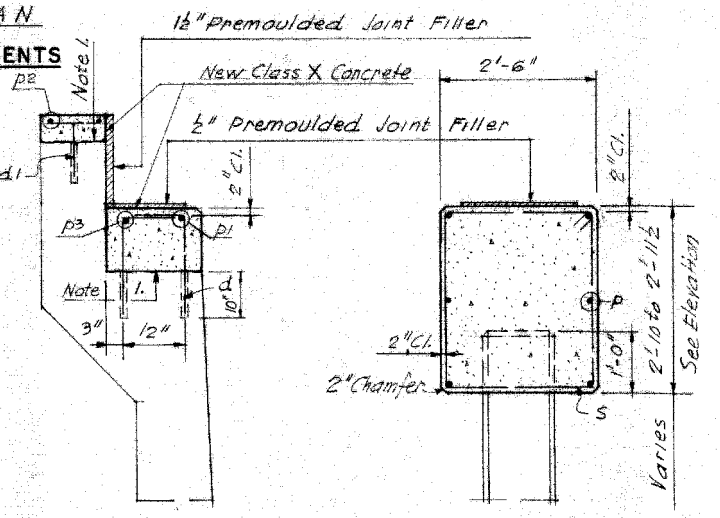
Construction Sequence at Existing Abutments

1. Remove existing bearing seat to Elev. 101.54
2. Roughen and clean surfaces at top of existing backwall and top of existing breastwall as indicated by hatched area of abutment plan.
3. Drill holes to receive dowel bars and grout in bars.
4. Pour new concrete on existing breastwall as indicated by the hatched area on plan and elevation.
5. All work of removal of existing concrete, preparation of surfaces and drilling and grouting of reinforcement bars is incidental to the item "Class X Concrete".
6. Precast prestressed bridge deck to be in place prior to pouring new concrete on existing abutment backwall.



DETAIL OF PRECAST CONCRETE PILES

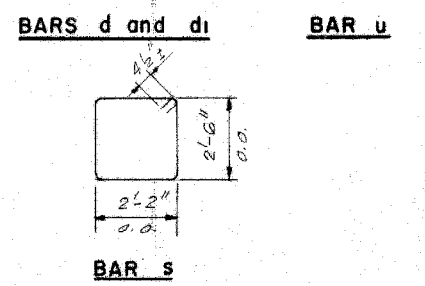
For pile lengths up to 45' use 2 slings placed at a distance of 0.21L from each end. On piles longer than 45' use 3 slings placed at 0.12L from each end and at midpoint of pile.



SECTION A-A

SECTION B-B

Note 1. Roughen & clean existing surface and provide bond to new conc. on full length.



**BILL OF MATERIAL
2 ABUTMENTS & 2 PIERS**

BAR NO.	SIZE	LENGTH	SHAPE
d	#4	2'-4"	7
d1	4	1'-6"	7
d2	4	1'-2"	—
P	7	24'-3"	—
P1	4	21'-6"	—
P2	4	21'-10"	—
P3	4	24'-0"	—
S	4	10'-1"	□
U	6	10'-1"	□
Class X Concrete Cu.Yds.			15.9
Reinforcement Bars Lbs.			1420
Precast Conc. Piles, 14" Lin. Ft.			283
Test Pile, Conc., 14" Each			1

PILE DATA

Type	Precast Concrete
Min. Capacity	30 Tons
Est. Length	29 Ft.
No. Required	8 *

*Including 1 Test Pile

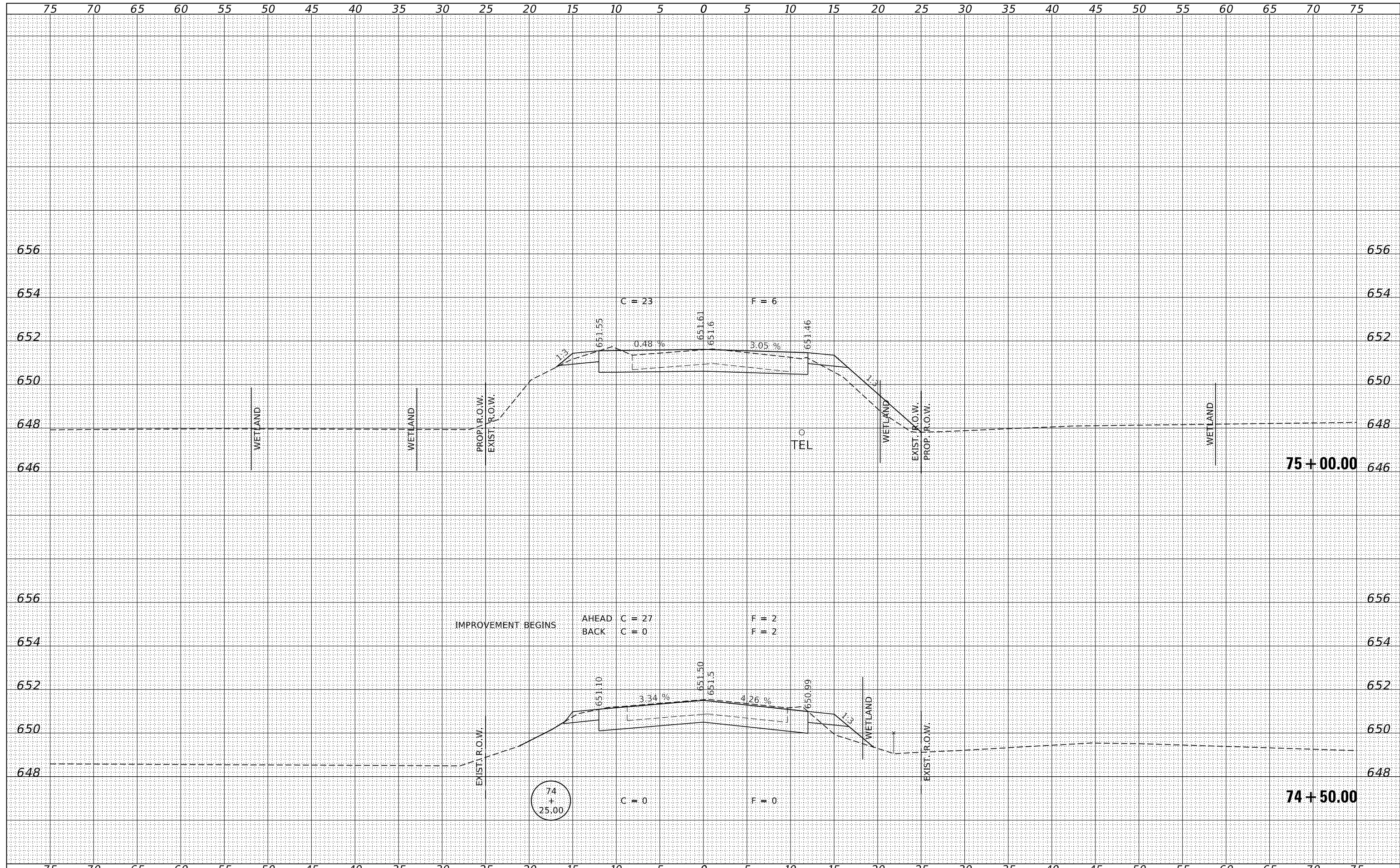
**PIERS AND ABUTMENTS
BRIDGE 4
ONARGA ROAD DISTRICT
IROQUOIS COUNTY
STATION 4+00**

**WALTER E. HANSON & COMPANY
ENGINEERS - CONSULTANTS**

DESIGNED DDO DRAW GL DATE Dec. 4, 1963
CHECKED GL CHECKED CR NO. 63-54

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

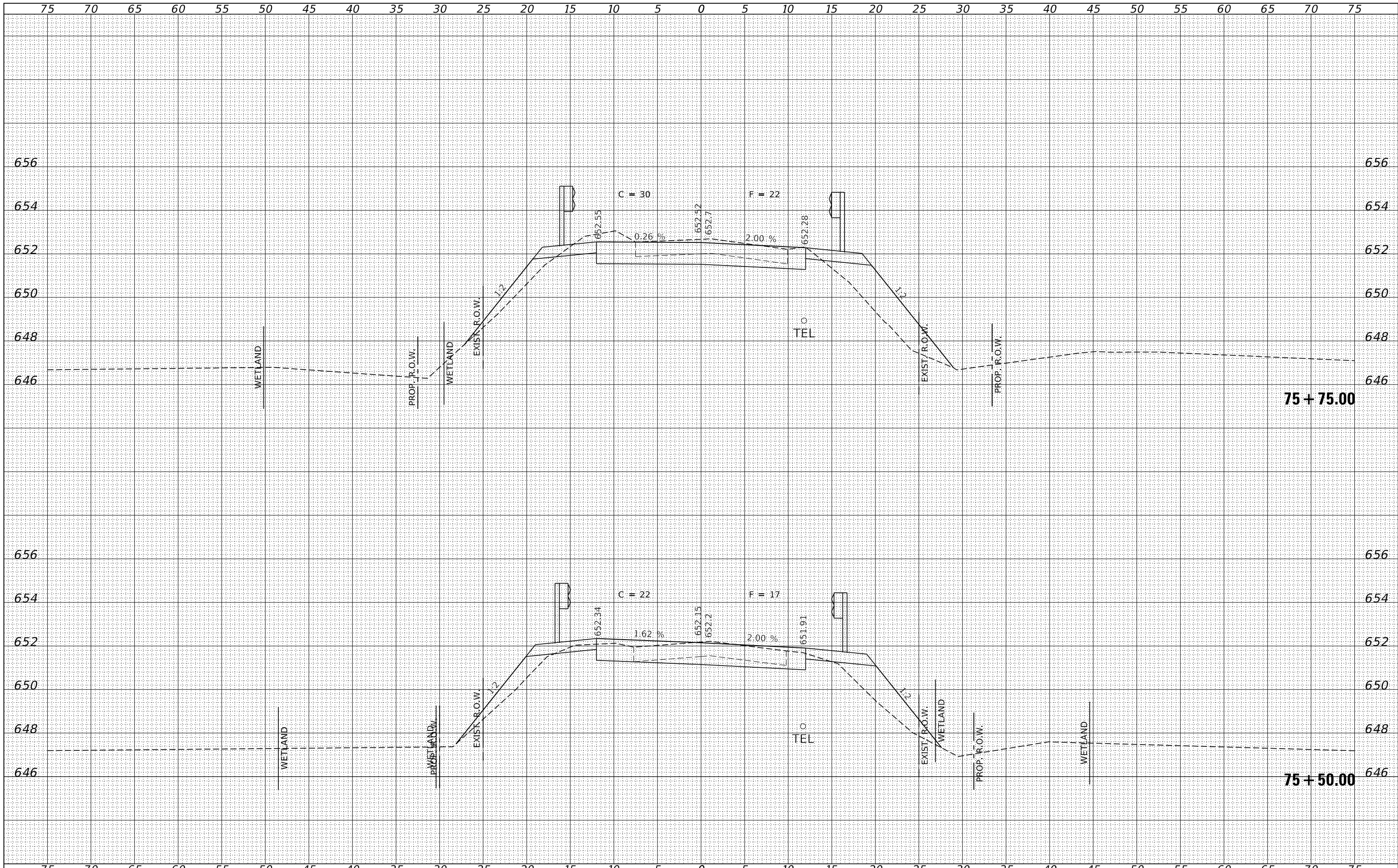
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME = 150177-sh1-exs.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS IROQUOIS COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS			T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000958	PLOT SCALE = \$S\$CALES	DRAWN - T.W.K.	REVISED -		74	14-20101-00-BR	IROQUOIS	37	28			
PLOT DATE = 3/11/2019	DATE - 03/11/19	CHECKED - S.W.M.	REVISED -		ONARGA ROAD DISTRICT			CONTRACT NO. 87691				
		REVISOR -	REVISED -		SCALE: 5H:2V	SHEET NO. 2 OF 11 SHEETS	STA. 74+50.00 TO STA. 75+00.00	ILLINOIS FED. AID PROJECT 3H7Z(853)				

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

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



FILE NAME = 150177-sh1-exs.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3885 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.009958

USER NAME = rmosck
 PLOT SCALE = \$S\$CALES
 PLOT DATE = 3/11/2019

DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 03/11/19

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 IROQUOIS COUNTY HIGHWAY DEPARTMENT

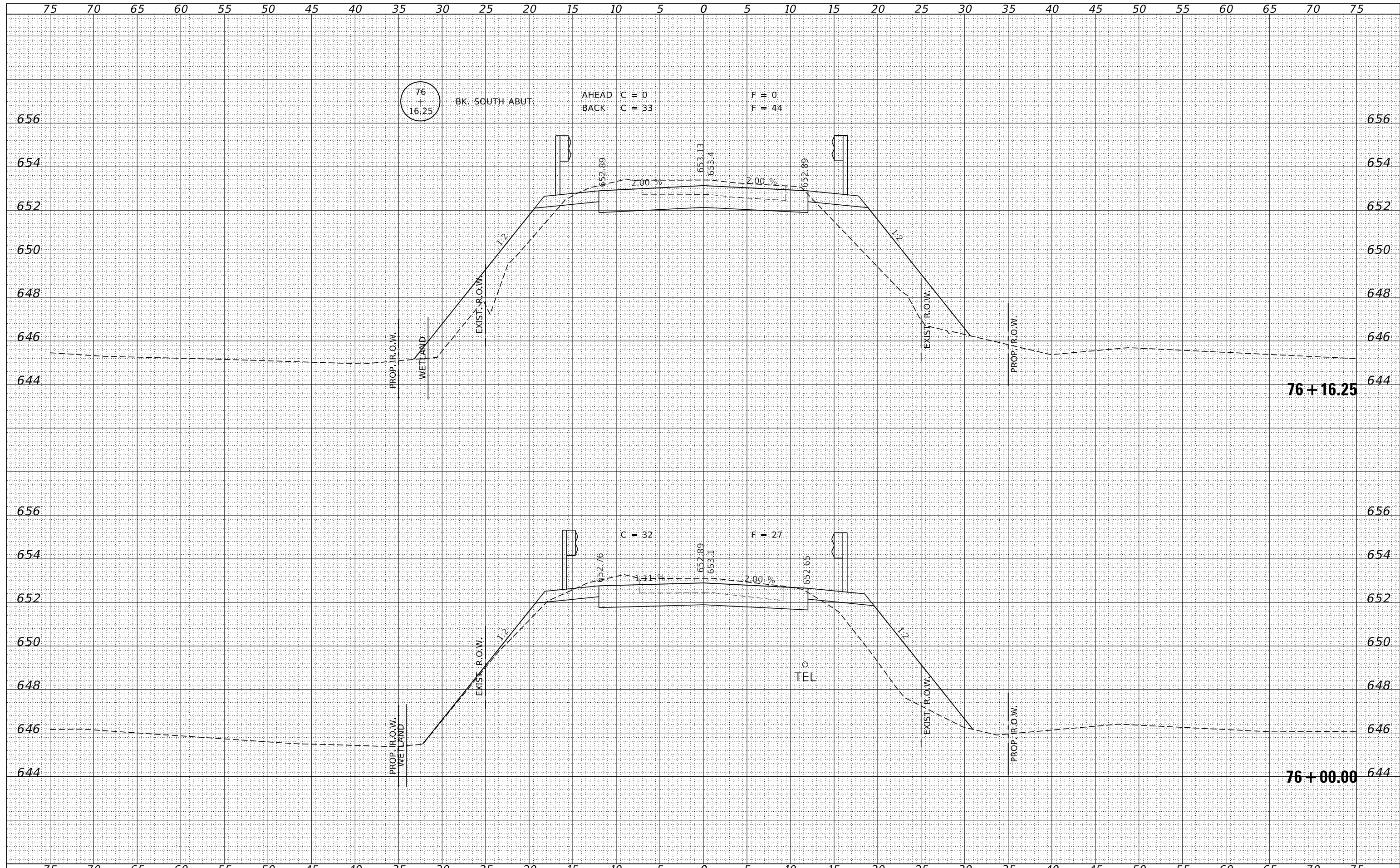
STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 3 OF 11 SHEETS STA. 75+50.00 TO STA. 75+75.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	14-20101-00-BR	IROQUOIS	37	29
ONARGA ROAD DISTRICT			CONTRACT NO. 87691	
ILLINOIS FED. AID PROJECT 3H7Z(853)				

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

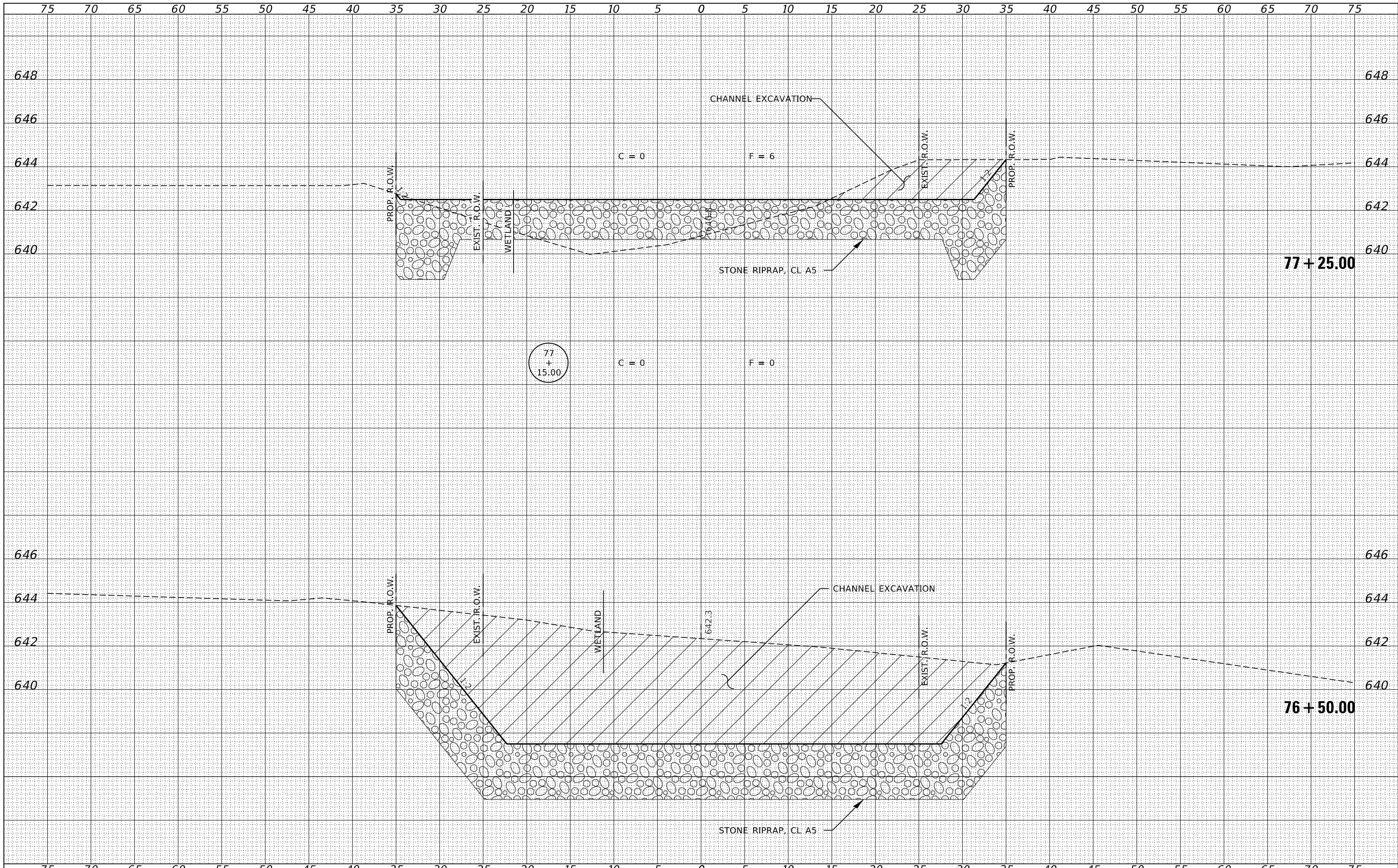
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME = 150177-ehf-exs.dgn	USER NAME = mosck	DESIGNED - J.V.F.	REVISED -	<p align="center">STATE OF ILLINOIS IROQUOIS COUNTY HIGHWAY DEPARTMENT</p> <p align="center">STATION CROSS SECTIONS</p>	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000958	PLOT SCALE = \$SCALES	DRAWN - T.W.K.	REVISED -		74	14-20101-00-BR	IROQUOIS	37	30
PLOT DATE = 3/11/2019	DATE = 03/11/19	CHECKED - S.W.M.	REVISED -		ONARGA ROAD DISTRICT		CONTRACT NO. 87691		
		REVISOR -	REVISED -		SCALE: 5H:2V		SHEET NO. 4 OF 11 SHEETS		STA. 76+00.00 TO STA. 76+16.25

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

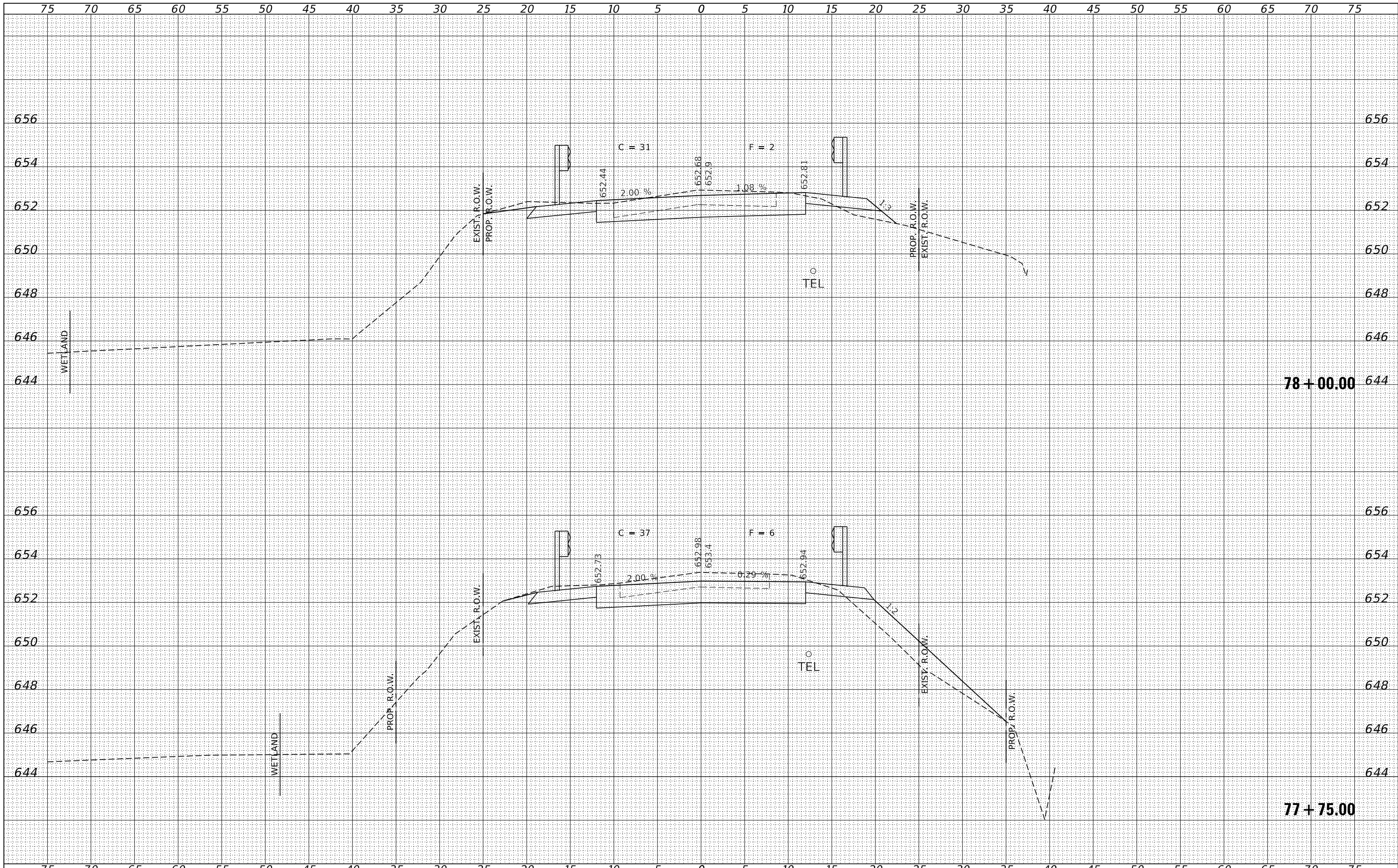
DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME = 150177-sh1-exs.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS IROQUOIS COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS		T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -		74	14-20101-00-BR	IROQUOIS	37	32		
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.009958		CHECKED - S.W.M.	REVISED -		ONARGA ROAD DISTRICT		CONTRACT NO. 87691		ILLINOIS FED. AID PROJECT 3H7Z(853)		
		DATE - 03/11/19	REVISED -		SCALE: 5H:2V	SHEET NO. 6 OF 11 SHEETS	STA. 76+75.00 TO STA. 77+25.00				

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

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



FILE NAME = 150177-sh1-exs.dgn
 DESIGNED - J.V.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 03/11/19

USER NAME = rmosck
 PLOT SCALE = \$Scales
 PLOT DATE = 3/11/2019

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

STATE OF ILLINOIS
 IROQUOIS COUNTY HIGHWAY DEPARTMENT

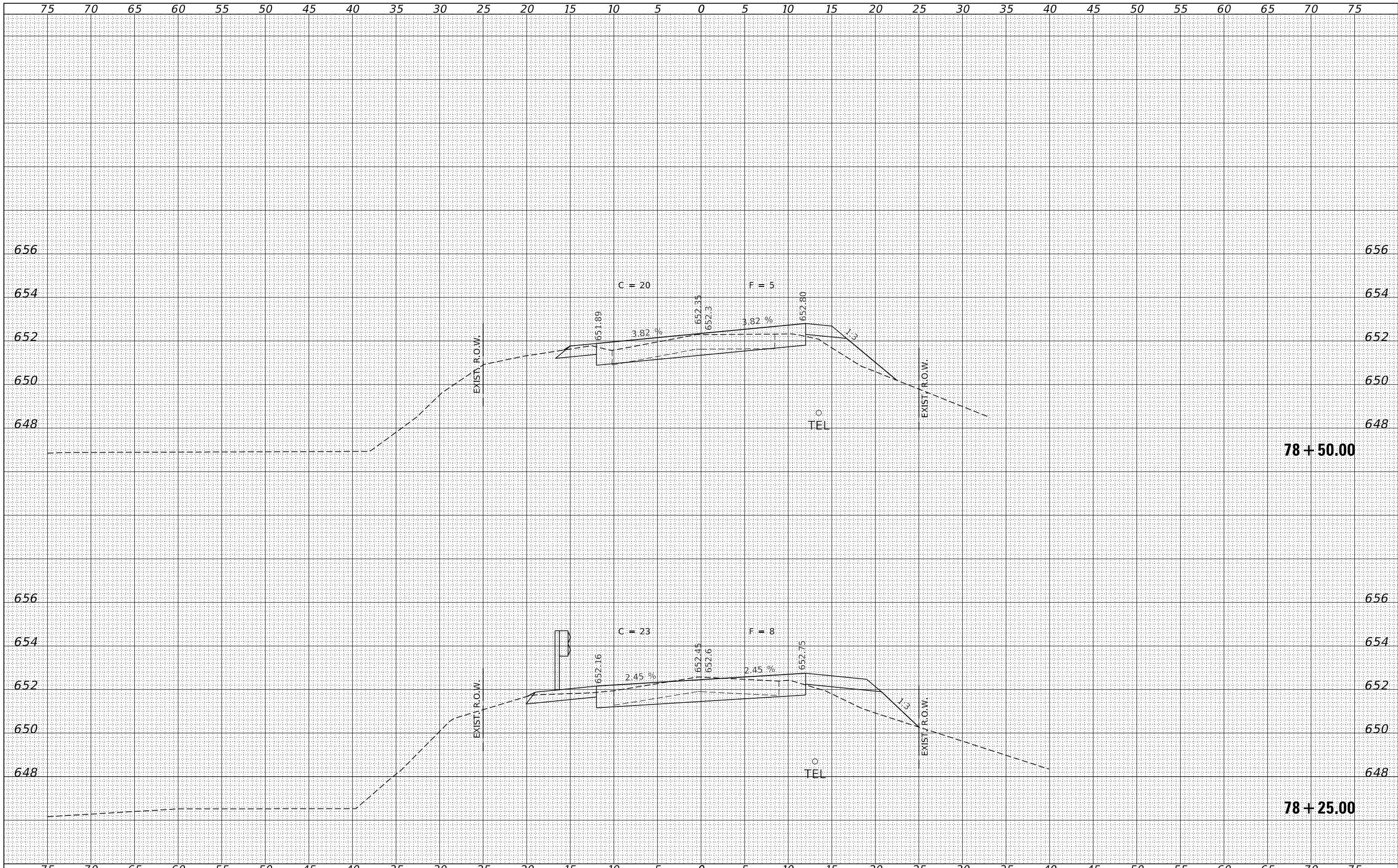
STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 8 OF 11 SHEETS STA. 77+75.00 TO STA. 78+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	14-20101-00-BR	IROQUOIS	37	34
ONARGA ROAD DISTRICT			CONTRACT NO. 87691	
ILLINOIS FED. AID PROJECT 3H7Z(853)				

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

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



FILE NAME = 150177-shf-exs.dgn
 USER NAME = mosck
 DESIGNED - J.V.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 03/11/19
 PLOT SCALE = \$S\$CALES
 PLOT DATE = 3/11/2019

REVISIONS:
 REVISION NO. | DATE | DESCRIPTION
 1 | | |
 2 | | |
 3 | | |

**STATE OF ILLINOIS
 IROQUOIS COUNTY HIGHWAY DEPARTMENT**

STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 9 OF 11 SHEETS STA. 78+25.00 TO STA. 78+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	14-20101-00-BR	IROQUOIS	37	35
ONARGA ROAD DISTRICT			CONTRACT NO. 87691	
ILLINOIS FED. AID PROJECT 3H7Z(853)				

