

035

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	1
		RAJNCHS	CONTRACT NO. 66879	

INDEX OF SHEETS

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2	GENERAL NOTES & COMMITMENTS
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11	SURVEY TIES AND BENCHMARKS
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29-34	CROSS SECTIONS

PROPOSED HIGHWAY PLANS

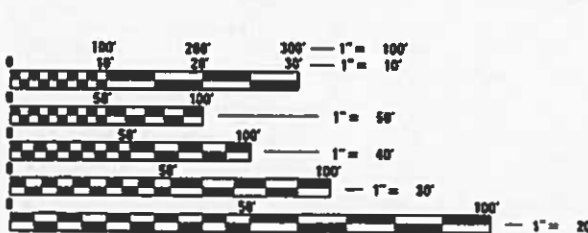
FAP ROUTE 332 (IL 1)
SECTION 17R-BR-1
PROJECT NHPP-N7US(362)
BRIDGE REPLACEMENT WITH
DOUBLE BOX CULVERT OVER GAY CREEK
IROQUOIS COUNTY
C-93-027-09

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-07	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
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RS OR WIDENING & RS PROJECTS
515001-03	NAME PLATE FOR BRIDGES
630001-12	STEEL PLATE BEAM GUARDRAIL
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701321-17	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

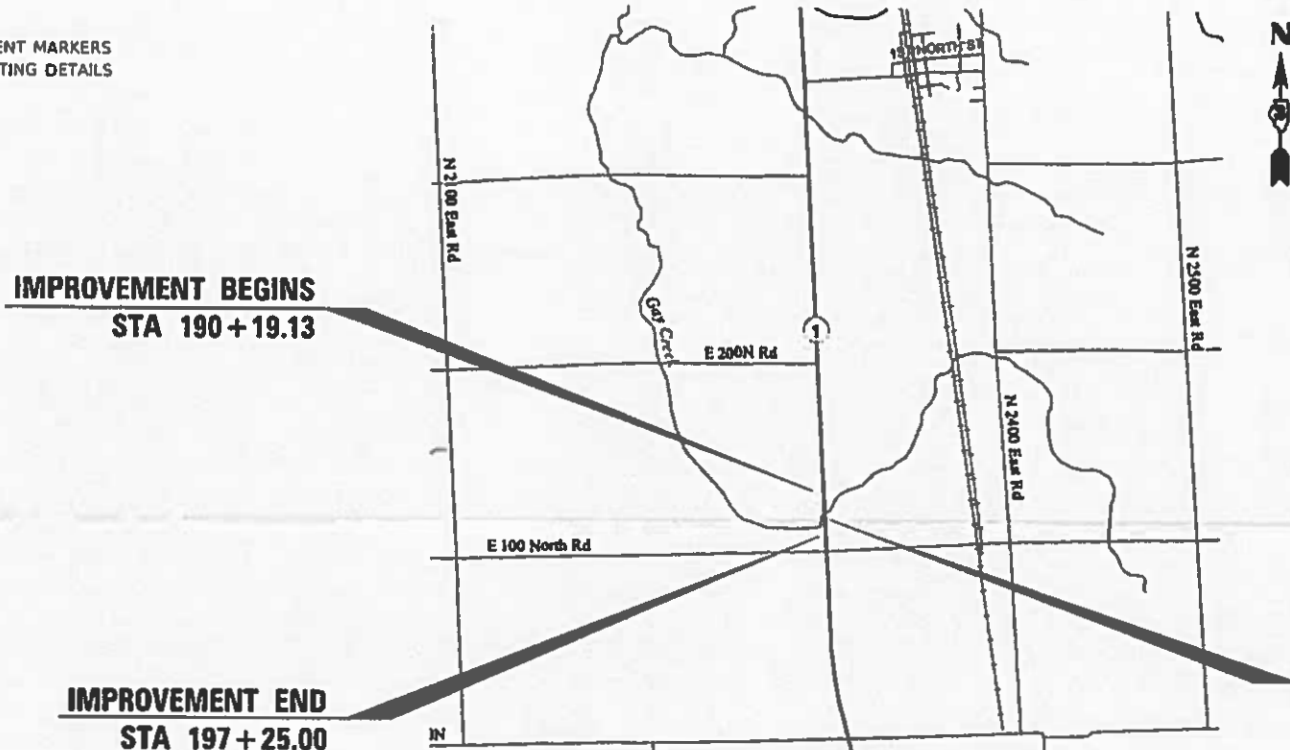


FUNCTIONAL CLASSIFICATION
OTHER PRINCIPAL ARTERIAL (RURAL)
 2017 ADT = 2500
 PV = 77.4% SU = 14.6% MU = 8.0%



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 EXCAVATORS
 1-800-892-0123
 OR 811



SN 038-0165 (EXISTING)
 STA 193+00.00
 STRUCTURE REPLACEMENT
 OVER GAY CREEK
 SN 038-2023 (PROPOSED)

GROSS & NET LENGTH = 705.87 FT. = 0.134 MILE

PROJECT ENGINEER: JOE KANNEL, P.E.
 UNIT CHIEF: MICHELE LINDEMANN, P.E.
 DISTRICT 3 NO. (815) 434-6131
 CONTRACT NO. 66879

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUBMITTED 2-1-2019

[Signature]
 REGIONAL ENGINEER

March 22, 2019

[Signature]
 ENGINEER OF DESIGN AND ENVIRONMENT

[Signature]
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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 OF THE STATE OF ILLINOIS

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF "FURNISHED EXCAVATION".

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 MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

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

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

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

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
AGGREGATE DITCH CHECKS	5	TONS AGGREGATE

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:
EASTERN ILLINI ELECTRIC COOP
FRONTIER COMMUNICATIONS
NEW WAVE COMMUNICATIONS

COMMITMENTS

HMA MIXTURE REQUIREMENT TABLE					
LOCATION(S):	ENTIRE PROJECT	ENTIRE PROJECT			
MIXTURE USE(S):	HMA LEVEL BINDER	HMA SURFACE	HMA BINDER	HMA SHOULDER TOP LIFT	HMA SHOULDER BOTTOM LIFTS
BINDER GRADE (PG):	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 9.5	IL 19.0	IL 9.5	IL 19.0
FRICITION AGGREGATE:		MIXTURE C		MIXTURE C	
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A	N/A	N/A	N/A
DENSITY TEST METHOD:	SATISFACTION OF THE ENGINEER	CORES	CORES	CORES	CORES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: Tom Benic
DISTRICT STUDIES & PLANS ENGINEER

DATE: 2-1-19

EXAMINED BY: [Signature]
DISTRICT CONSTRUCTION ENGINEER

[Signature]
DISTRICT MATERIALS ENGINEER

[Signature]
DISTRICT OPERATIONS ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, HIGHWAY STANDARDS
AND COMMITMENTS

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	2
			CONTRACT NO. 66879	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.

CONSTR. CODE

CODE NO.	ITEM	UNIT	TOTAL	BOX CULVERT
			QUANTITY	0010
				S.N. 038-2023
20200100	EARTH EXCAVATION	CU YD	106	106
20400800	FURNISHED EXCAVATION	CU YD	321	321
20700220	POROUS GRANULAR EMBANKMENT	CU YD	451	451
25000300	SEEDING, CLASS 3	ACRE	0.5	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	41	41
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	41	41
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	41	41
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	2311	2311
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	46	46
28000305	TEMPORARY DITCH CHECKS	FOOT	80	80
28000400	PERIMETER EROSION BARRIER	FOOT	1463	1463
28100107	STONE RIPRAP, CLASS A4	SQ YD	206	206
28200200	FILTER FABRIC	SQ YD	206	206
31100300	SUBBASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	195	195

* SPECIALTY ITEM

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PLOT DATE = 1/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	3
			CONTRACT NO. 66879	
ILLINOIS FED. AID PROJECT				

CONSTR. CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BOX CULVERT
				0010 S.N. 038-2023
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	438	438
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1366	1366
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	84	84
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	560	560
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	114	114
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	252	252
44000100	PAVEMENT REMOVAL	SQ YD	125	125
44004250	PAVED SHOULDER REMOVAL	SQ YD	27	27
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	1655	1655
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50104650	SLOPE WALL REMOVAL	SQ YD	11	11
* 50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	212	212
50800105	REINFORCEMENT BARS	POUND	2280	2280
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	990	990

* SPECIALTY ITEM

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PLOT DATE = 1/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	4
CONTRACT NO. 66879			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				BOX CULVERT 0010 S.N. 038-2023
51500100	NAME PLATES	EACH	1	1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	407	407
54003000	CONCRETE BOX CULVERTS	CU YD	58.2	58.2
54011008	PRECAST CONCRETE BOX CULVERTS 10' X 8'	FOOT	113.5	113.5
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	155.7	155.7
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	45	45
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	1	1
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	1	1
61140000	STORM SEWERS (SPECIAL), 8"	FOOT	13	13
61140900	STORM SEWERS (SPECIAL), 24"	FOOT	23	23
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	687.5	687.5
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	62.5	62.5
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	804	804
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	5
CONTRACT NO. 66879			ILLINOIS FED. AID PROJECT	

				CONSTR. CODE
CODE NO.	ITEM	UNIT	TOTAL	BOX CULVERT
			QUANTITY	0010 S.N. 038-2023
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	396	396
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	66	66
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2202	2202
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	275	275
70400100	TEMPORARY CONCRETE BARRIER	FOOT	437.5	437.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	312.5	312.5
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4

* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

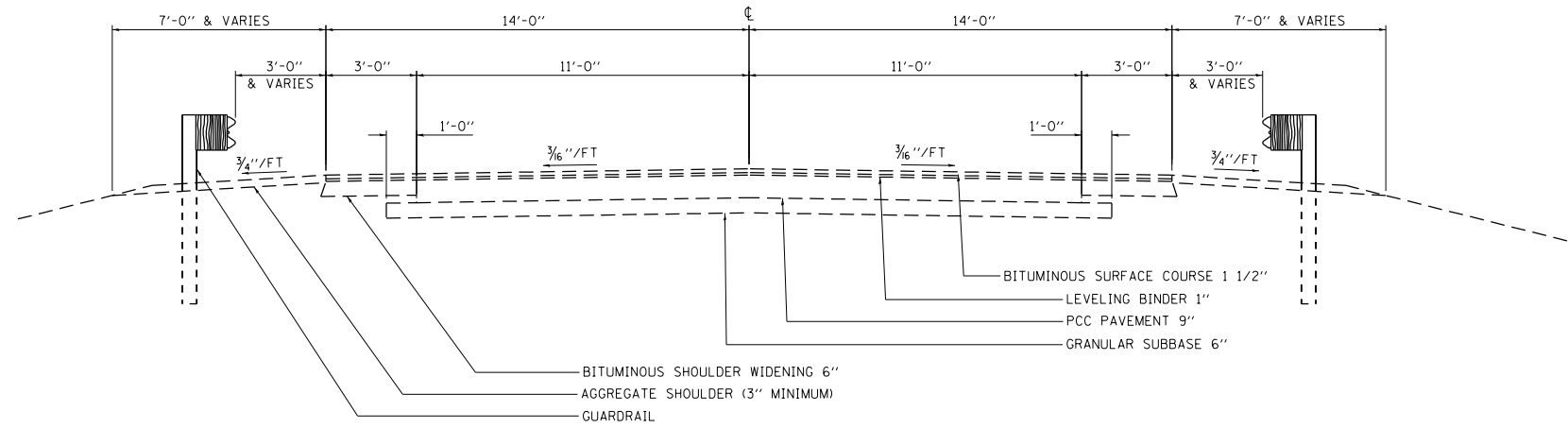
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	6
			CONTRACT NO. 66879	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				BOX CULVERT
				0010
				S.N. 038-2023
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	4404	4404
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	550	550
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	14	14
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	12	12
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	14	14
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1501	1501
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	155.7	155.7
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1427	1427
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42
* Z0054400	ROCK FILL	CU YD	176	176

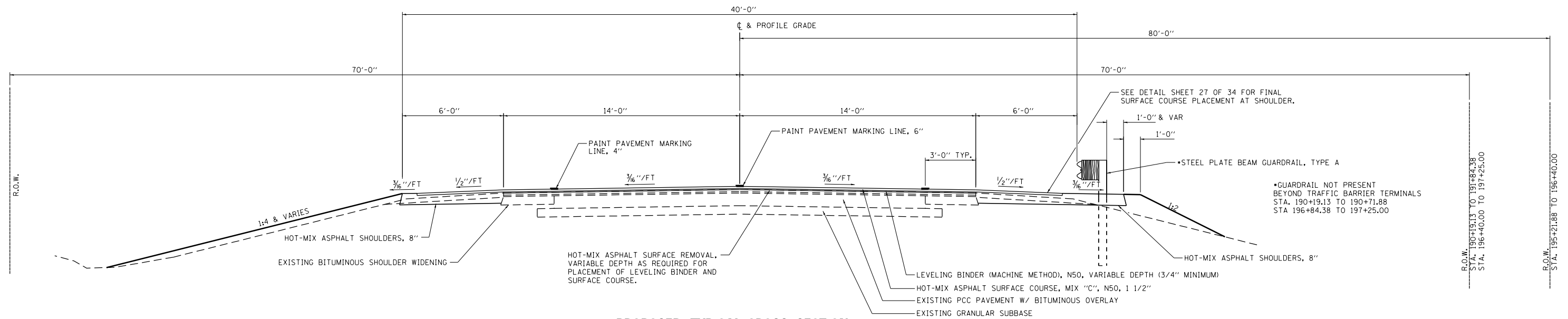
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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT									
PLOT DATE = 2/1/2019	DATE -	REVISED -											

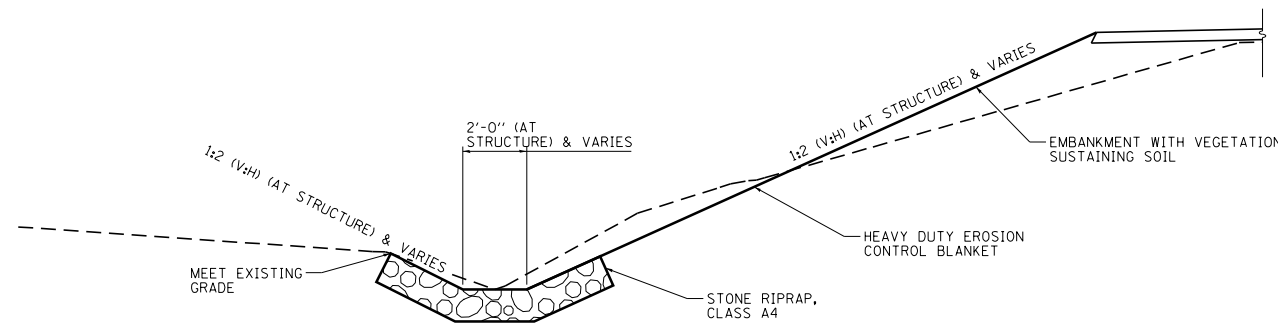


EXISTING TYPICAL CROSS SECTION
FAP 332 (IL 1)



PROPOSED TYPICAL CROSS SECTION
FAP 332 (IL 1)
STA. 190+19.13 TO STA. 191+84.38
STA. 195+21.88 TO STA. 197+25.00

• GUARDRAIL NOT PRESENT
BEYOND TRAFFIC BARRIER TERMINALS
STA. 190+19.13 TO 190+71.88
STA. 196+84.38 TO 197+25.00



DITCH DETAIL AT STRUCTURE
FAP 332 (IL 1)
TRANSITION FROM EXISTING DITCH
SECTION TO DITCH SECTION AT STRUCTURE
AS SHOWN STA. 192+50.00 LT TO STA. 192+78.26 LT
AND STA. 193+21.74 LT TO STA. 193+53.00 LT

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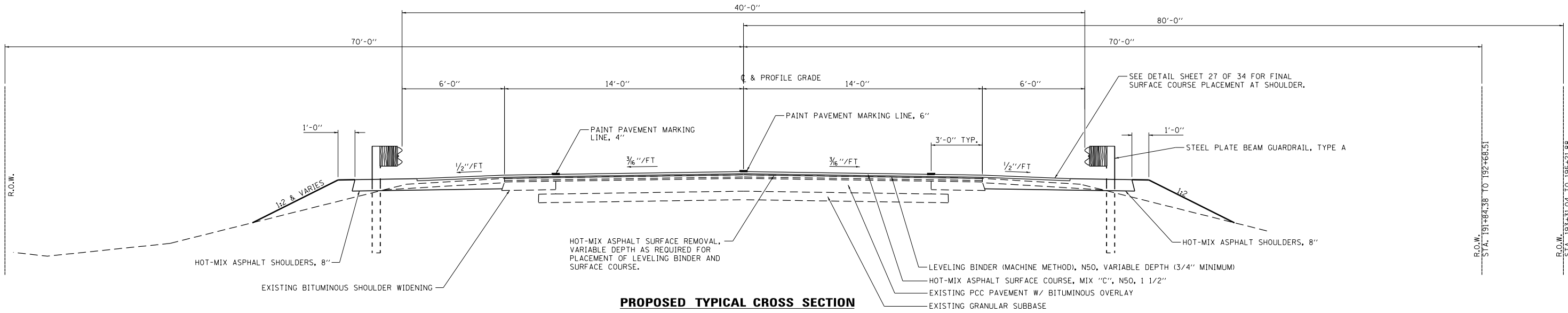
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

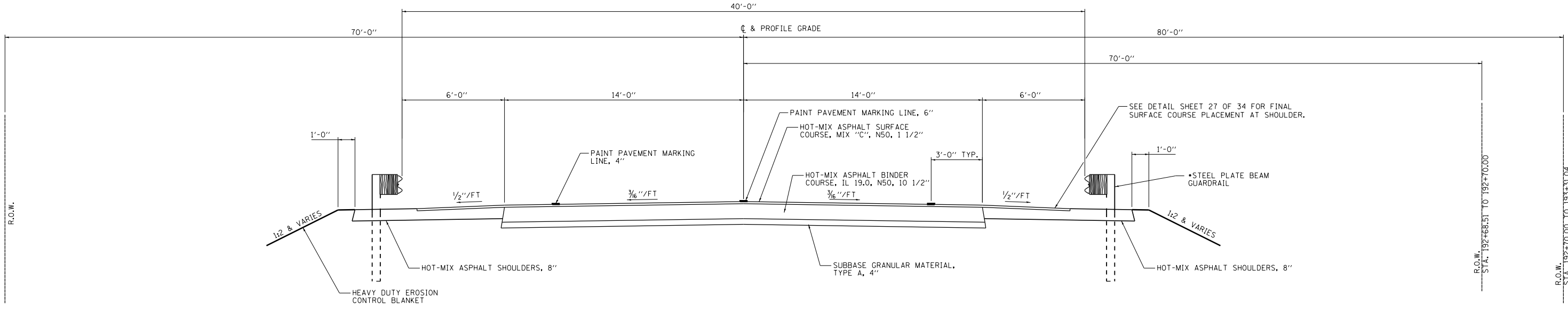
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	8
CONTRACT NO. 66879				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL CROSS SECTION

FAP 332 (IL 1)
 STA. 191+84.38 TO 192+68.51
 STA. 193+31.04 TO 195+21.88



PROPOSED TYPICAL CROSS SECTION

FAP 332 (IL 1)
 STA. 192+68.51 TO 193+31.04

• STRONG POST GUARDRAIL ATTACHED TO CULVERT, TYP. STA. 192+84.38 TO STA. 193+15.63

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	9
CONTRACT NO. 66879				
ILLINOIS FED. AID PROJECT				

EARTHWORK				
	EARTH EX	TOTAL EX ADJUST FOR 25% SHRINK	EMBANK	FURN EX (BALANCE WASTE (+) SHORTAGE (-))
LOCATION	CU YD	CU YD	CU YD	CU YD
STAGE I				
190+19.13 TO 192+88.20	32	24	13	11
192+88.20 TO 193+11.79	26	20	197	-177
193+11.79 TO 197+25.00	0	0	16	-16
STAGE I TOTAL	58	44	226	-182
STAGE II				
190+19.13 TO 192+88.20	21	16	90	-74
192+88.20 TO 193+11.79	27	20	98	-78
193+11.79 TO 197+25.00	0	0	-13	13
STAGE II TOTAL	48	36	175	-139
EARTH EX TOTALS	106	80		
FURNISHED EX TOTALS			401	-321

TRAFFIC CONTROL AND PROTECTION						
	TEMP CONC BARRIER	RELOCATE TEMP CONC BARRIER	IMP ATT TEMP NON-RD T.L.3	IMP ATT TEMP RELOCATE NON-RD T.L.3	TEMP BRIDGE TRAFFIC SIGNALS	TEMP INFO SIGN
LOCATION	FOOT	FOOT	EACH	EACH	EACH	SQ FT
190+81.71 TO 192+43.71	162.5					
192+43.71 TO 193+56.21	112.5	112.5				
193+56.21 TO 195+18.21	162.5					
191+43.71 TO 192+43.71		100				
193+56.21 TO 194+56.21		100				
190+82.00 RT			1			
195+18.00 RT			1			
191+44.00 LT				1		
194+56.00 LT				1		
188+84.13 TO 198+85.00					1	
TOTALS	437.5	312.5	2	2	1	42

RELECTORS/MARKERS				
	RAISED REFL PVMT MARKER	RAISED REFL PVMT MARKER REM	GUARD-RAIL REFL TYPE A	TERMINAL MARKER DIRECT APPLIED
LOCATION	EACH	EACH	EACH	EACH
CL 188+34.13 TO 199+35.00	14	14		
LT 191+84.38 TO 195+21.88			4	
RT 190+71.88 TO 196+84.38			8	
RT 190+71.88				1
LT 191+84.38				1
LT 195+21.88				1
RT 196+84.38				1
TOTALS	14	14	12	4

SOIL RETENTION		
	TEMP SOIL RETENTION SYSTEM	POROUS GRAN EMBANK
LOCATION	SQ FT	CU YD
192+71.45 TO 192+86.20	108.9	
192+86.20 TO 192+88.78	38.1	
193+11.21 TO 193+13.79	37.8	
193+13.79 TO 193+28.46	107.7	
192+71.45 TO 193+28.46		451
192+84.20 TO 192+86.20	28	
192+86.20 TO 192+88.20	30	
193+11.79 TO 193+13.79	29	
193+13.79 TO 193+15.79	27	
TOTALS	407	451

SEEDING/FERTILIZING						
	SEED CLASS 3	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	HEAVY DUTY EROSION CTRL BLANKET	TEMP EROSION CTRL SEED
LOCATION	ACRE	POUND	POUND	POUND	SQ YD	POUND
LT 190+25.00 TO 193+06.56	0.11	9.7	9.7	9.7	457.9	10.8
LT 193+11.79 TO 197+25.00	0.16	14.7	14.7	14.7	774.2	16.3
RT 190+25.00 TO 192+88.21	0.04	3.2	3.2	3.2	169.3	3.5
RT 193+11.79 TO 197+25.00	0.15	13.7	13.7	13.7	909.3	15.2
TOTALS	0.5	41	41	41	2311	46

EROSION CONTROL		
	PERIMETER EROSION BARRIER	TEMP DITCH CHECK
LOCATION	FOOT	FOOT
LT 190+25.00 TO 193+04.48	326.8	
LT 193+20.00 TO 197+25.00	452.7	
RT 190+25.00 TO 192+80.00	270.2	
RT 193+20.00 TO 197+25.00	412.8	
191+19.00 43.6' LT		10
192+50.00 43.7' LT		10
193+53.00 43.4' LT		10
195+05.00 50.3' LT		10
196+43.00 50.3' LT		10
191+19.00 50.4' RT		10
192+60.00 45.3' RT		10
196+39.00 47.2' RT		10
TOTALS	1463	80

STORM SEWERS/FIELD TILE					
	STORM SEWERS (SPECIAL) 8"	STORM SEWERS (SPECIAL) 24"	FLD TILE JUNCTION VAULT 2' DIA	FLD TILE JUNCTION VAULT 3' DIA	EXPLR TRENCH 52" DEPTH
LOCATION	FOOT	FOOT	EACH	EACH	FOOT
192+67.60 65' LT TO 192+81.93 47' LT		23			
193+19.57 47' LT TO 193+23.19 60' LT	13				
192+67.60 65' LT				1	
193+23.19 60' LT			1		
192+67.60 65' LT TO 192+80.88 42' LT					26
193+19.44 42' LT TO 193+23.19 60' LT					19
TOTALS	13	23	1	1	45

PAVEMENT MARKING							
	PAINT PVMT MARK LINE 4"	PAINT PVMT MARK LINE 6"	SHORT TERM PVMT MARK	TEMP PVMT MARK LINE 4"	TEMP PVMT MARK LINE 6"	SHORT TERM PVMT MARK REMOVAL	PVMT MARK REMOVAL WATER BLASTING
LOCATION	FOOT	FOOT	FOOT	FOOT	FOOT	SQ FT	SQ FT
188+34.13 TO 199+35	4404	550	396	2202	275	66	872
FOR STAGE CONSTRUCTION:							
188+44.13 TO 198+75							629
TOTALS	4404	550	396	2202	275	66	1501

GUARDRAIL				
	GRDRAIL REM	STBGR TYPE A 6' POSTS	SPGR ATT TO CULV	TBT TYPE 1 (SPECIAL) TANGENT
LOCATION	FOOT	FOOT	FOOT	EACH
191+50.18 LT TO 192+88.20 LT	138			
193+11.79 LT TO 194+50.51 LT	139			
191+50.39 RT TO 192+88.20 RT	138			
193+11.79 RT TO 197+01.16 RT	389			
192+34.38 LT TO 192+84.38 LT		50		
193+15.63 LT TO 194+71.88 LT		156.25		
191+21.88 RT TO 192+84.38 RT		162.5		
193+15.63 RT TO 196+34.38 RT		318.75		
192+84.38 TO 193+15.63			31.25	
190+71.88 RT TO 191+21.88 RT				1
191+84.38 LT TO 192+34.38 LT				1
194+71.88 LT TO 195+21.88 LT				1
196+34.38 RT TO 196+84.38 RT				1
TOTALS	804	687.5	62.5	4

PAVEMENT REMOVAL				
	PVMT REM	HOT-MIX ASPHALT SURF REM BUTT JOINT	HOT-MIX ASPHALT SURF REM VAR DEPTH	PAVED SHLDR REM
LOCATION	SQ YD	SQ YD	SQ YD	CU YD
192+68.51 TO 192+88.75	63			14
193+11.25 TO 193+31.04	62			13
190+19.13 TO 191+09.13		280		
196+35.00 TO 197+25.00		280		
LT SHLDR 190+19.13 TO 191+36.57			67	
LT SHLDR 191+36.57 TO 192+37.50			58	
LT SHLDR 192+37.50 TO 194+75.00			135	
LT SHLDR 194+75.00 TO 195+75.93			58	
LT SHLDR 195+75.93 TO 197+25.00			85	
RT SHLDR 190+19.13 TO 191+25.00			60	
RT SHLDR 191+25.00 TO 196+37.50			292	
RT SHLDR 196+37.50 TO 197+25.00			50	
193+94.34 TO 195+21.64			396	
195+77.33 TO 196+50.00			226	
TOTALS	125	560	1427	27

PAVING MATERIALS							
	SUBBASE GRAN MAT TYPE A 4"	BIT MAT (PRIME COAT)	BIT MAT (TACK COAT)	HOT-MIX ASPHALT SURF COURSE, MIX "C", N50	LEVELING BINDER (MACHINE METHOD), N50	HOT-MIX ASPHALT SHOULDERS, 8"	HOT-MIX ASPHALT BINDER COURSE, IL-19.0.N50
LOCATION	SQ YD	POUND	POUND	TON	TON	SQ YD	TON
192+68.51 TO 193+31.04	195	438					114
190+19.13 TO 197+25.00 FOG CT			675				
190+19.13 TO 197+25.00				252			
190+94.13 TO 192+68.51			244		36.8		
193+31.04 TO 196+50.00			447		47.2		
LT 189+00.00 TO 191+36.57						157.7	
LT 191+36.57 TO 192+37.50						139.6	
LT 192+37.50 TO 194+75.00						233.1	
LT 194+75.00 TO 195+75.93						139.6	
LT 195+75.93 TO 198+25.00						166.0	
RT 190+19.13 TO 191+25.00						150.0	
RT 191+25.00 TO 196+37.50						503.0	
RT 196+37.50 TO 197+25.00						126.3	
LT 192+68.51 TO 192+88.75						19.9	
LT 193+11.25 TO 193+31.04						19.4	
TOTALS	195	438	1366	252	84	1654.6	114

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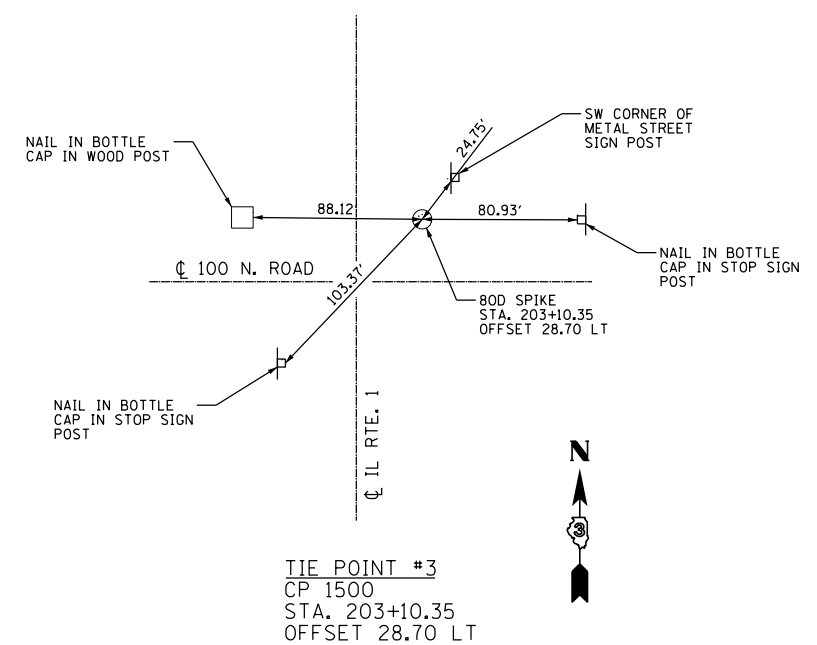
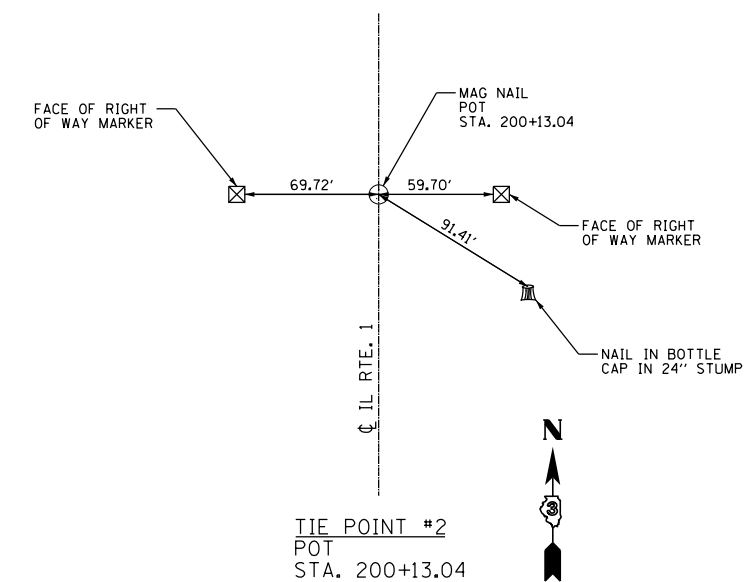
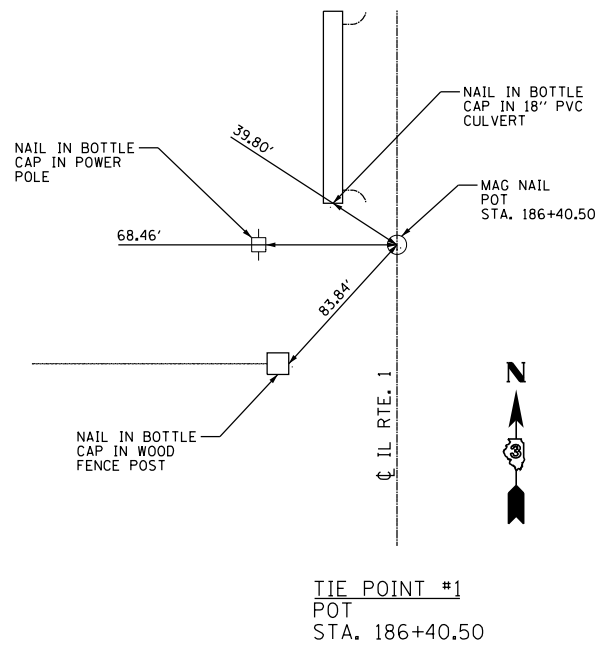
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	10
CONTRACT NO. 66879				
ILLINOIS		FED. AID PROJECT		



GPS NUMBER	DESCRIPTION	EXISTING MONUMENT TYPE	PROPOSED MONUMENT TYPE	MONUMENT RECORD TO BE RECORDED	RESPONSIBILITY
N/A	NO PERMANENT SURVEY MARKERS OR SECTION CORNER MARKERS TO BE SET ON THIS JOB	N/A	N/A	N/A	N/A

THERE ARE NO RECORD LAND SURVEY OR CENTERLINE CONTROL MONUMENTS LOCATED WITHIN THE CONSTRUCTION LIMITS. UNKNOWN MONUMENTS SET BY OTHERS MAY EXIST. IF FOUND, THE R.E. MUST TIE AND REQUEST PLATS AND PLANS PERSONNEL TO GPS ANY MONUMENT(S) SUBJECT TO DAMAGE OR DESTRUCTION FROM THE BRIDGE REPLACEMENT WORK, AND INFORM THEM TO RESET THE MONUMENT(S) UPON JOB COMPLETION. NO MONUMENT RECORDS WILL BE REQUIRED FOR THIS JOB.

BENCH MARK #1
 STA. 193+11.14
 20.37 RT.
 ELEVATION 701.391
 CHIS "□" TOP SOUTHWEST WINGWALL
 S.N. 038-0165

BENCH MARK #2
 STA. 192+73.11
 68.58' RT.
 ELEVATION 696.713
 RR SPIKE IN POWER POLE

MODEL: 66879-011
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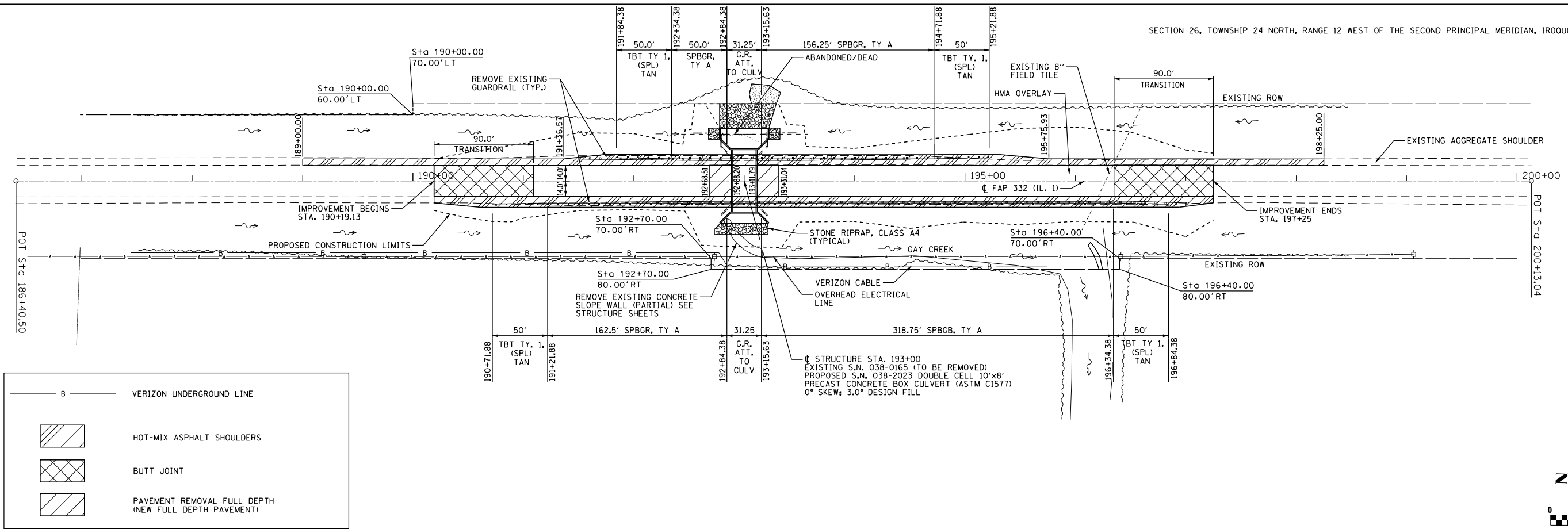
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

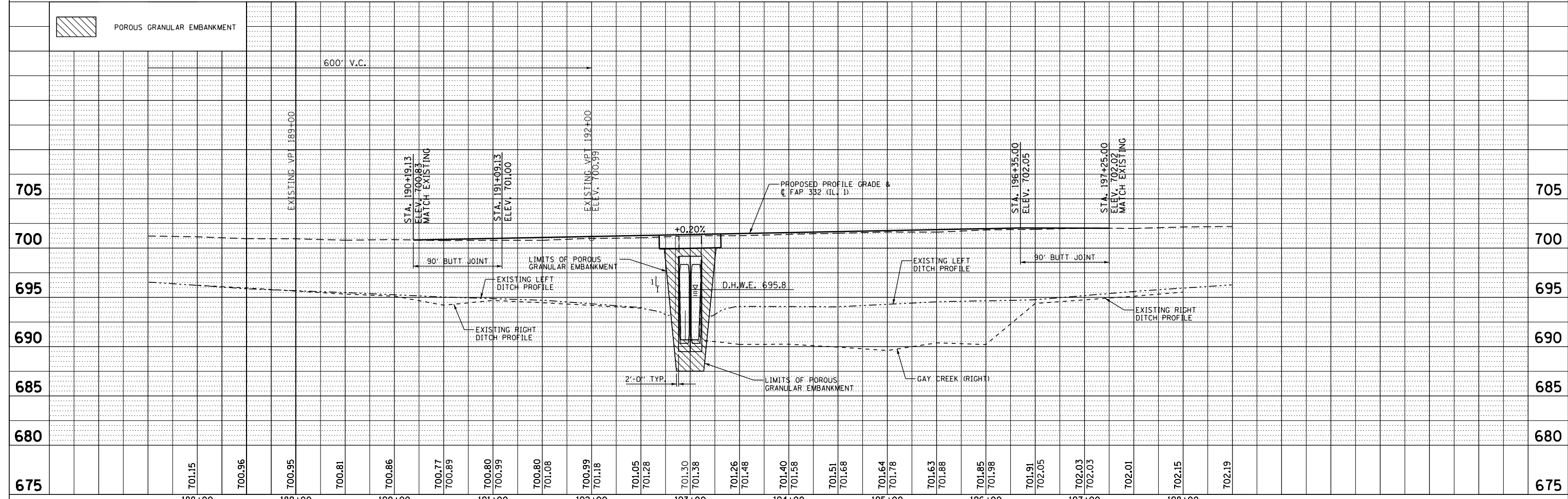
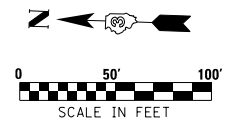
SURVEY TIES AND BENCHMARKS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	11
CONTRACT NO. 66879				
ILLINOIS FED. AID PROJECT				



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	PLOTTED	
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	CHECKED	
	FILE NAME	



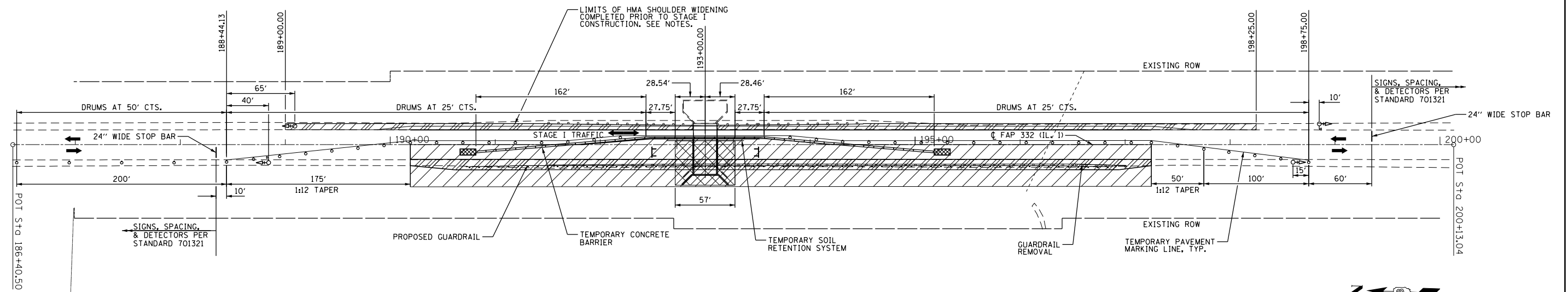
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	NOTATIONS	

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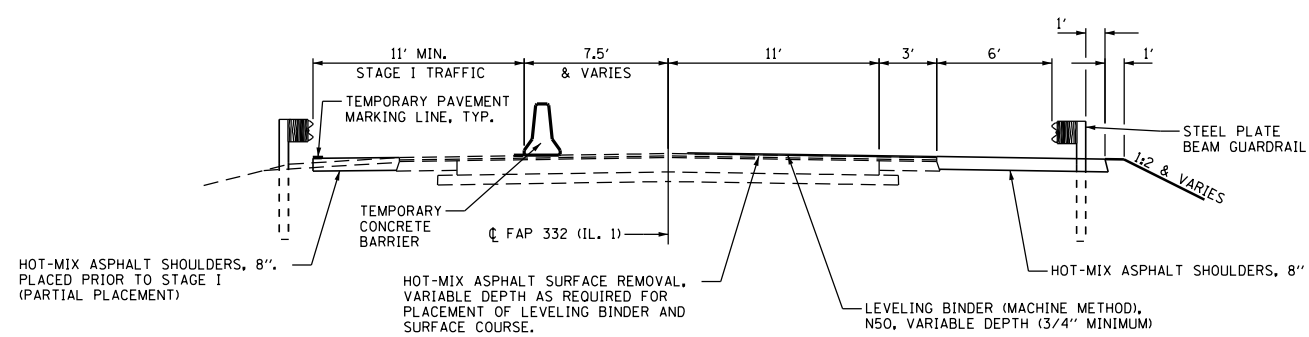
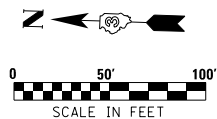
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
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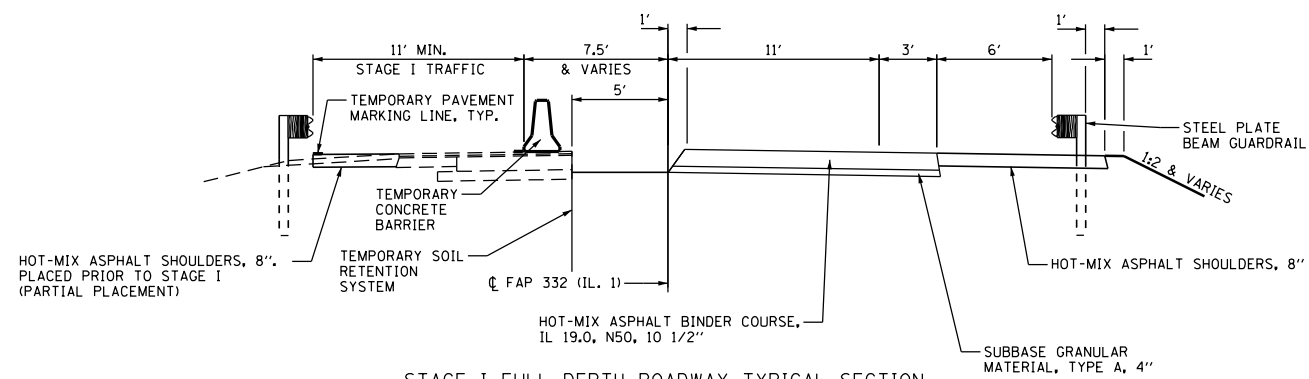
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ILLINOIS FED. AID PROJECT				



STAGE I PLAN VIEW



STAGE I ROADWAY OVERLAY TYPICAL SECTION (LOOKING SOUTH)



STAGE I FULL DEPTH ROADWAY TYPICAL SECTION (LOOKING SOUTH)










NOTES:

1. THE HOT-MIX ASPHALT SHOULDERS, 8" ON THE SIDE OF STAGE I TRAFFIC, AS SHOWN, SHALL BE PLACED PRIOR TO SETUP OF STAGE I TRAFFIC CONTROL AND CONSTRUCTION UTILIZING STANDARD 701326. ONLY PARTIAL DEPTH OF THE SHOULDER SHALL BE PLACED AT THIS TIME TO MATCH THE ELEVATION OF THE EXISTING PAVEMENT. THE REMAINDER OF THE TOTAL SHOULDER DEPTH SHALL BE PLACED DURING STAGE II WORK TO MATCH THE ELEVATION OF THE LEVELING BINDER. WHERE EXCAVATION AND EMBANKMENT ARE REQUIRED, IT SHALL BE PROVIDED AT THIS TIME. WHERE NO LEVELING BINDER WILL BE PLACED ON THE ADJACENT PAVEMENT, FULL DEPTH SHOULDER SHALL BE CONSTRUCTED.
2. AFTER PROVIDING TEMPORARY TRAFFIC CONTROL SIGNALS FOR STAGE I CONSTRUCTION, ALL OTHER TRAFFIC CONTROL DEVICES SHALL BE PLACED AND TRAFFIC SHALL BE DIVERTED TO THE STAGE I LANE. WIDTH RESTRICTION SIGNING POSTED FOR A MAXIMUM WIDTH OF 9'-6" SHALL BE PLACED IN EACH DIRECTION AFTER THE ROAD CONSTRUCTION AHEAD SIGN OR AS DIRECTED BY THE ENGINEER PRIOR TO DIVERTING STAGE I TRAFFIC. SEE SHEET 27 OF 34.
3. THE PORTION OF THE EXISTING BRIDGE AND PAVEMENT AS SHOWN ON THE STAGE I WORK SIDE OF THE STAGE REMOVAL LINE SHALL BE REMOVED. THE REMOVED PORTION OF THE STRUCTURE SHALL BE REPLACED WITH THE PROPOSED PRECAST DOUBLE CELL BOX CULVERT UP TO THE STAGE CONSTRUCTION LINE. NEW PAVEMENT SHALL BE CONSTRUCTED AT THE STRUCTURE WHICH SHALL BUTT UP TO THE EXISTING PAVEMENT.
4. REMOVE GUARDRAIL WITHIN LIMITS OF STAGE I WORK AREA. PROVIDE ALL EXCAVATION AND EMBANKMENT AS NECESSARY AND CONSTRUCT THE HOT-MIX ASPHALT SHOULDERS, 8" AND PROPOSED GUARDRAIL WITHIN THE STAGE I WORK AREA. SHOULDERS SHALL BE CONSTRUCTED ONLY TO MATCH THE ELEVATION OF THE LEVELING BINDER OVER TOP OF THE EXISTING PAVEMENT OR THE NEW BINDER COURSE AS APPLICABLE, AND SHALL BE FULL DEPTH.
5. SEE HIGHWAY STANDARD 701321 FOR ADDITIONAL DETAILS.
6. DURING CONSTRUCTION OF THE STRUCTURE AND RELATED ROADWAY IMPROVEMENTS, TRAFFIC SHALL BE MAINTAINED ALONG THE EXISTING ROUTE UTILIZING STAGED CONSTRUCTION, WHERE NECESSARY. THE PLANS PROVIDE MINIMUM REQUIREMENTS FOR THE COMPLETION OF THIS WORK. AT THE CONTRACTOR'S OPTION, ALTERNATE METHODS OF STAGE CONSTRUCTION MAY BE USED, IF DEEMED ACCEPTABLE BY THE ENGINEER. WIDTH RESTRICTION REQUIREMENTS WILL BE IN EFFECT, AND SHALL BE ACCOMPANIED BY THE FOLLOWING:

POST MOUNTED WIDTH RESTRICTION SIGNAGE AND ORANGE FLAGS, POSTED WITH A WIDTH OF 9'-6" SHALL BE FURNISHED AND ERECTED IN ADVANCE OF THE STAGE CONSTRUCTION AT THE FOLLOWING LOCATIONS, OR AS SPECIFIED BY THE ENGINEER:

INTERSECTION OF IL 1 AND IL 9 NEAR HOOPESTON, APPROXIMATELY 3 MILES SOUTH OF THE CONSTRUCTION.
INTERSECTION OF IL 1 AND US 24 EAST OF WATSEKA, APPROXIMATELY 19 MILES NORTH OF THE CONSTRUCTION.
INTERSECTION OF IL 1 AND COUNTY HIGHWAY 11 WEST OF WELLINGTON, APPROXIMATELY 2 MILES NORTH OF THE CONSTRUCTION.

LEGEND

-  HMA SHOULDERS, 8"
-  LIMITS OF EXCAVATION FOR STRUCTURE
-  STAGE I WORK AREA
-  IMPACT ATTENUATOR
-  DRUM WITH STEADY BURNING LIGHT
-  TEMPORARY TRAFFIC SIGNAL W/ BACKPLATE
-  TEMPORARY TRAFFIC SIGNAL W/ BACKPLATE AND MICROWAVE DETECTOR DIRECTION AS INDICATED.
-  TYPE III BARRICADE (PLACE WHEN NO WORK IS BEING PERFORMED)
-  TEMPORARY CONCRETE BARRIER

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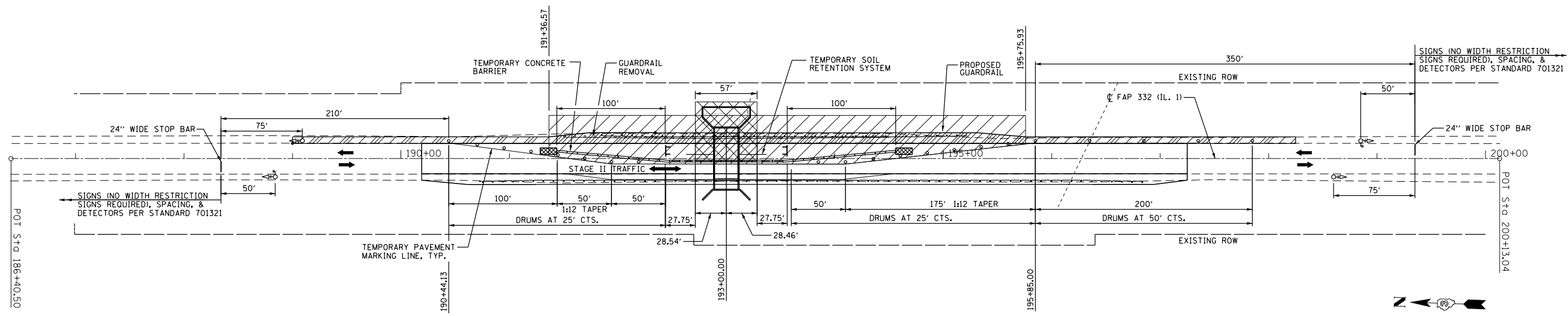
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

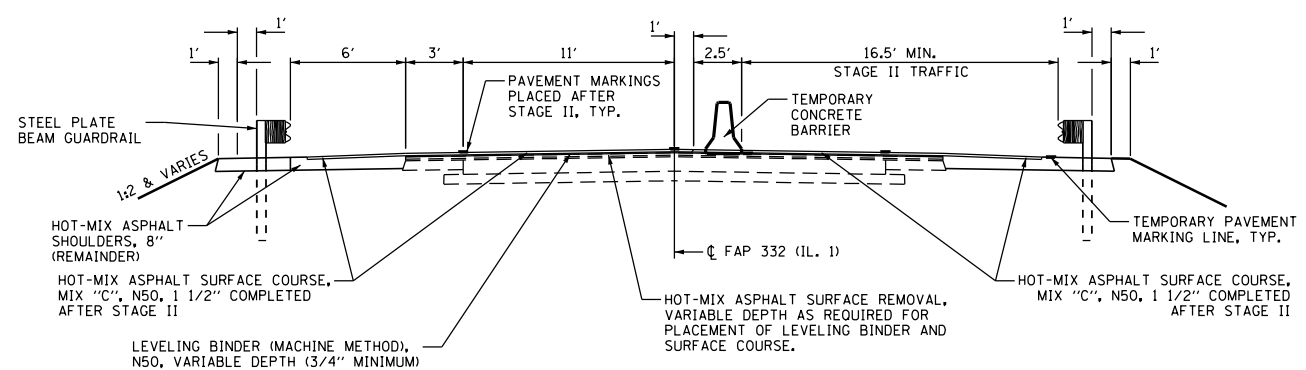
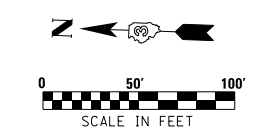
STAGE I CONSTRUCTION
AND TRAFFIC CONTROL PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

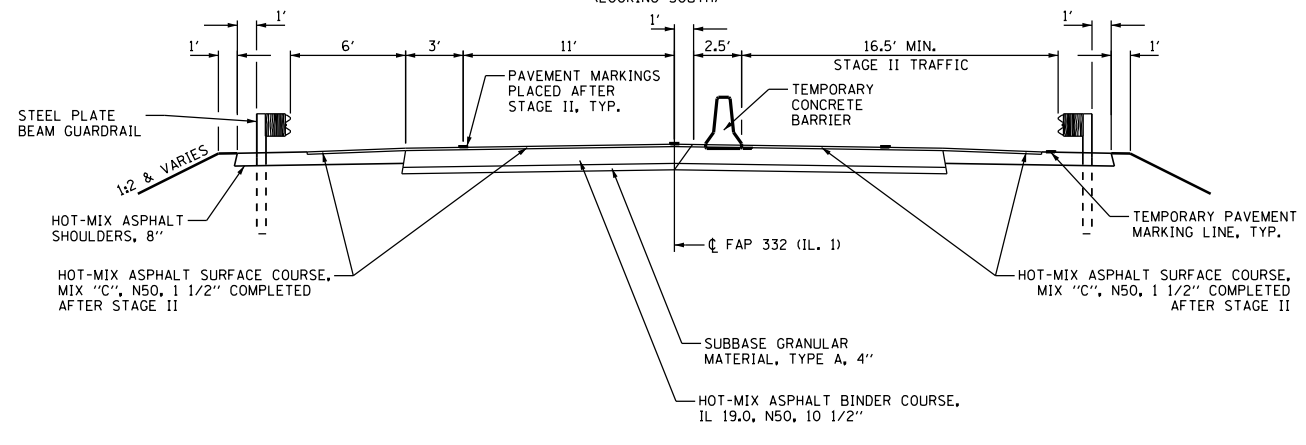
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	13
CONTRACT NO. 66879				
		ILLINOIS	FED. AID PROJECT	



STAGE II PLAN VIEW



STAGE II ROADWAY OVERLAY TYPICAL SECTION (LOOKING SOUTH)



STAGE II FULL DEPTH ROADWAY TYPICAL SECTION (LOOKING SOUTH)

- NOTES:
- RELOCATE TRAFFIC CONTROL DEVICES AS NECESSARY AND DIVERT TRAFFIC TO THE STAGE II LANE. ONCE STAGE II TRAFFIC HAS BEEN DIVERTED, MAXIMUM WIDTH SIGNING SHALL BE REMOVED.
 - REMOVE THE REMAINING PORTION OF THE EXISTING STRUCTURE, PAVEMENT, AND SHOULDER AS SHOWN ON THE STAGE II WORK SIDE OF THE STAGE REMOVAL LINE. CONSTRUCT THE REMAINING PORTION OF THE PROPOSED STRUCTURE AND NEW PAVEMENT AND SHOULDER AS NECESSARY. ELEVATION OF NEW PAVEMENT SHALL BE AS REQUIRED TO ACHIEVE FINAL GRADE WITH ONLY SURFACE COURSE PLACED ABOVE. THE NEWLY CONSTRUCTED PAVEMENT SHALL BE FULL WIDTH AT THE STRUCTURE AND SHALL BUTT UP TO THE EXISTING PAVEMENT BEYOND EACH END OF THE STRUCTURE EXCAVATION.
 - REMOVE GUARDRAIL WITHIN THE LIMITS OF THE STAGE II WORK AREA. PROVIDE EXCAVATION, EMBANKMENT, AND REMAINDER OF HOT-MIX ASPHALT SHOULDERS, 8" AT GUARDRAIL AS NECESSARY, AND CONSTRUCT PROPOSED GUARDRAIL. SHOULDERS AT GUARDRAIL SHALL BE FULL DEPTH.
 - AFTER COMPLETION OF THIS WORK, REMOVE ALL TRAFFIC CONTROL DEVICES AS NECESSARY.
 - PLACE HOT-MIX ASPHALT SURFACE COURSE WITHIN THE CONSTRUCTION LIMITS TO COMPLETE THE SURFACE OVERLAY, UTILIZING STANDARD 701306. HOT-MIX ASPHALT SURFACE COURSE SHALL ALSO EXTEND OVER THE TOP OF THE SHOULDER AS SHOWN IN THE DETAILS, SEE SHEET 27 OF 34.
 - PROVIDE PERMANENT PAVEMENT MARKINGS.
 - SEE HIGHWAY STANDARD 701321 FOR ADDITIONAL DETAILS.

LEGEND

	HMA SHOULDERS, 8"
	LIMITS OF EXCAVATION FOR STRUCTURE
	STAGE II WORK AREA
	IMPACT ATTENUATOR
	DRUM WITH STEADY BURNING LIGHT
	TEMPORARY TRAFFIC SIGNAL W/BACKPLATE
	TEMPORARY TRAFFIC SIGNAL W/ BACKPLATE AND MICROWAVE DETECTOR DIRECTION AS INDICATED.
	TYPE III BARRICADE (PLACE WHEN NO WORK IS BEING PERFORMED)
	TEMPORARY CONCRETE BARRIER

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE II CONSTRUCTION
AND TRAFFIC CONTROL PLAN**

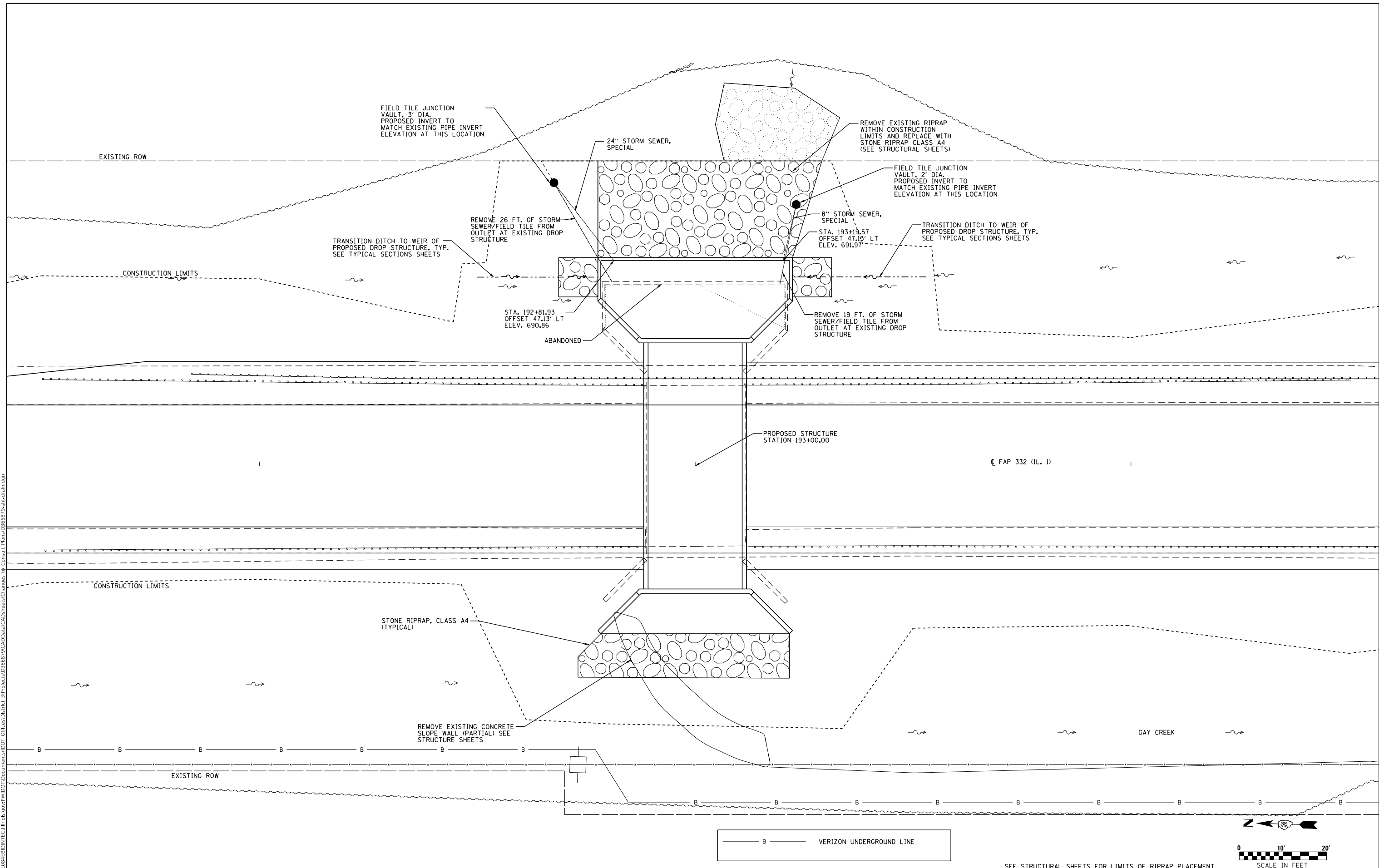
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	14
CONTRACT NO. 66879				
		ILLINOIS	FED. AID PROJECT	

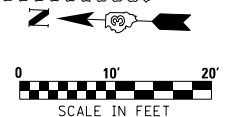
DATE	
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FIELD FILE NAME	
PLAN NO.	
NOTE BOOK	

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BY	
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STRUCTURE NOT AT THIS OFFICE	
PROFILE NO.	
NOTE BOOK	

MODEL: 66879-015
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CL FAP 332 (IL. 1)



SEE STRUCTURAL SHEETS FOR LIMITS OF RIPRAP PLACEMENT

USER NAME = corcoranm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRAINAGE IMPROVEMENT PLAN

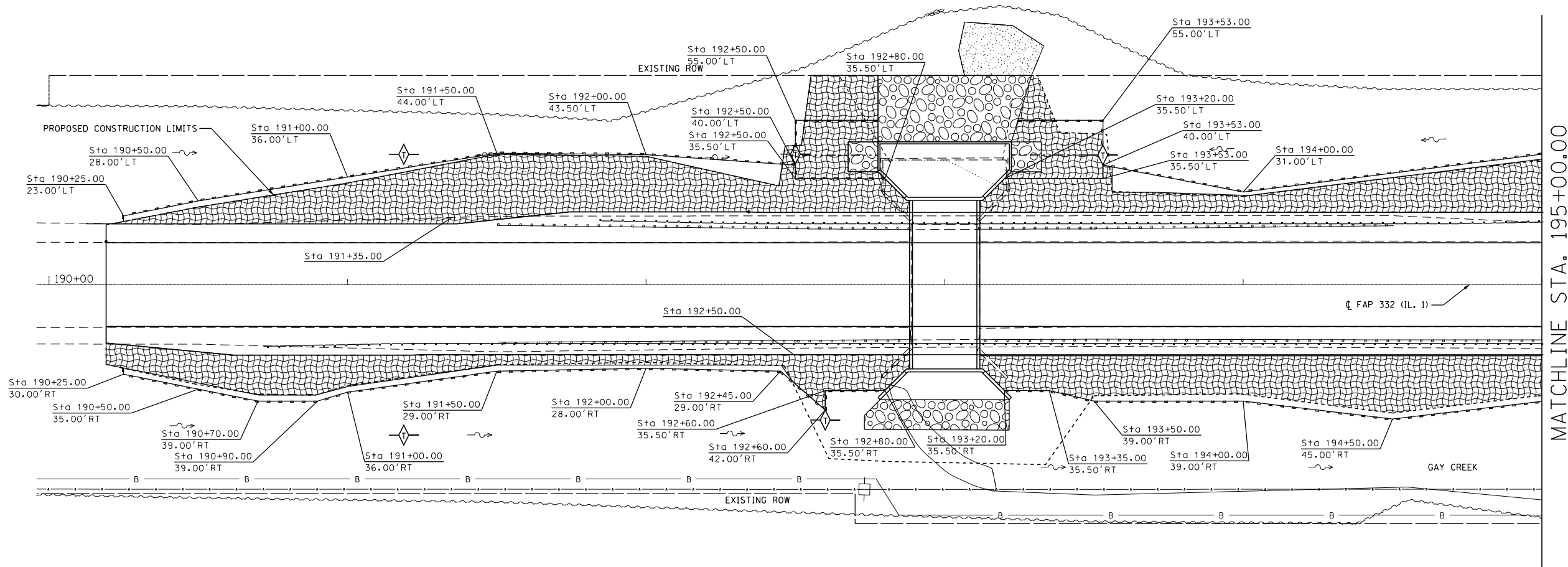
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 66879				
ILLINOIS FED. AID PROJECT				

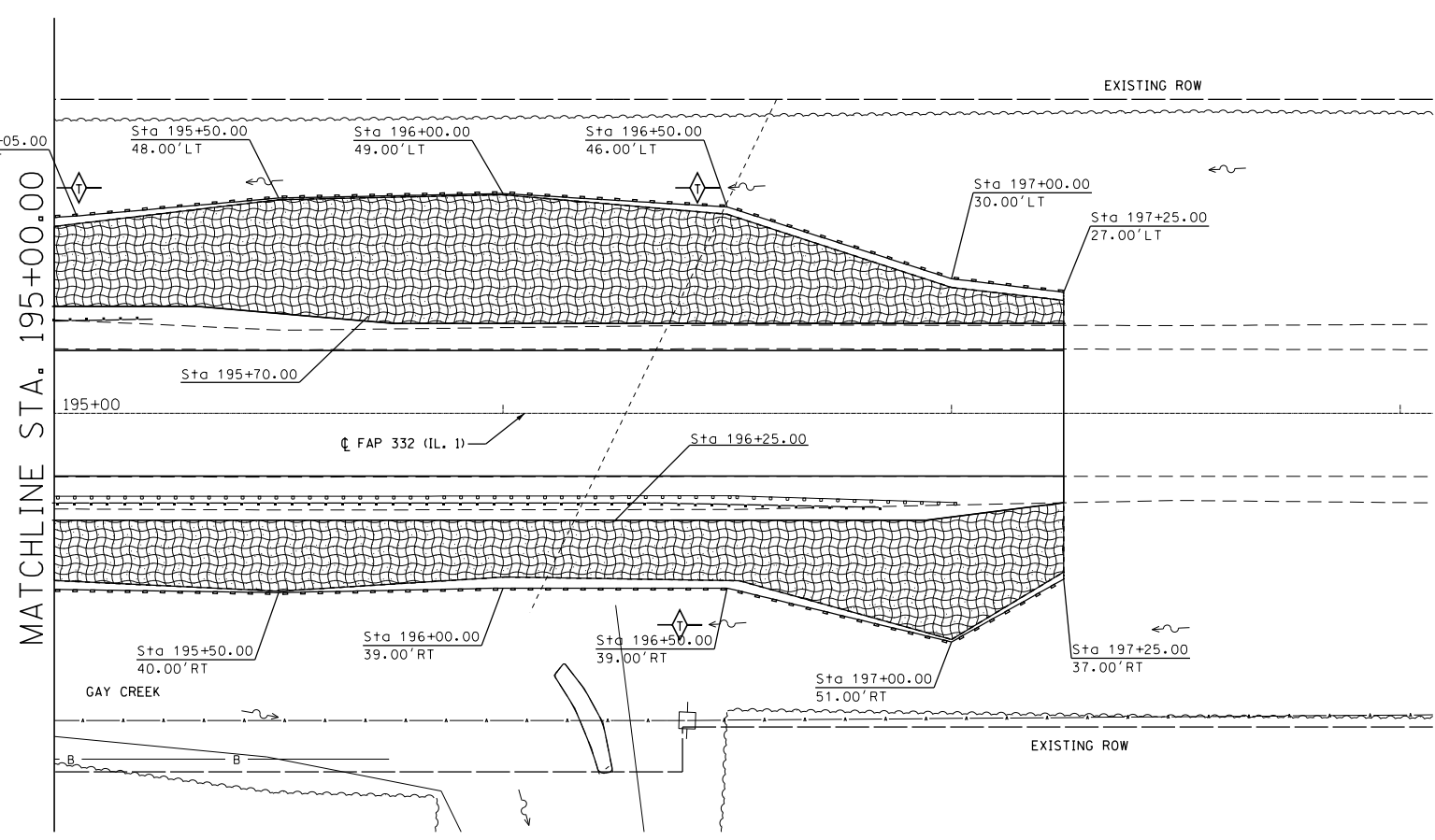
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SURVEYED	NOT AT THIS OFFICE		
PLOTTED	NOT AT THIS OFFICE		
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STRUCTURE CHECKED	NOT AT THIS OFFICE		
NOTE BOOK	NOT AT THIS OFFICE		

PROFILE	NO.	BY	DATE
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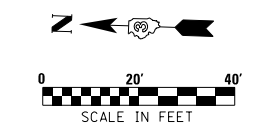


MATCHLINE STA. 195+00.00



MATCHLINE STA. 195+00.00

LEGEND	
	TEMPORARY DITCH CHECK (STRAW BALE OR ROLLED EXCELSIOR)
	PERIMETER EROSION BARRIER
	TEMPORARY EROSION CONTROL SEEDING
	HEAVY DUTY EROSION CONTROL BLANKET
	STONE RIPRAP, CLASS A4 AND FILTER FABRIC



USER NAME = corcoranlm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 1/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL PLAN		
SCALE:	SHEET	OF SHEETS
STA.		TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	16
CONTRACT NO. 66879				
ILLINOIS FED. AID PROJECT				

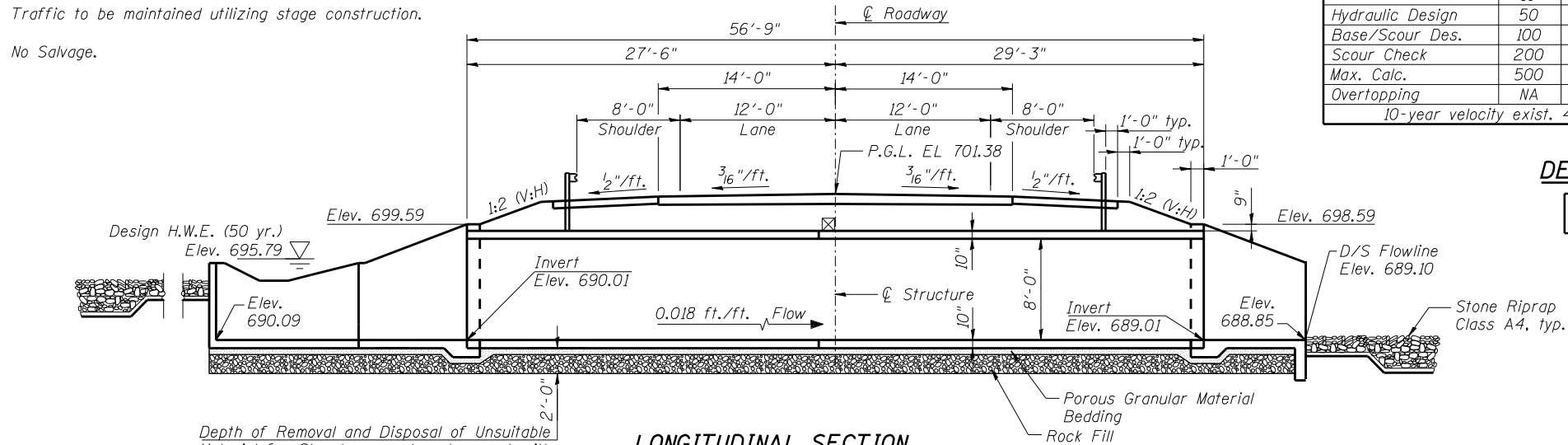
Benchmark: Sta. 192+73.11, 68.58' right, railroad spike in power pole, Elev. 696.71.

Existing Structure: No. 038-0165 built as F.A. Route 1 - Sec. 17R-B in 1952 is a single span bridge with a 1'-0 1/2" reinforced concrete slab and 1'-8 3/4" deep by 1'-8" wide combination curb/edge beams on each side. 22'-6" back to back closed abutments. 37'-0" face to face of curb and 40'-4" out to out of deck. Vertical cantilever concrete wingwalls on west side and concrete drop box ±42'-6"L x ±21'W x 5'-6"H east side of bridge.

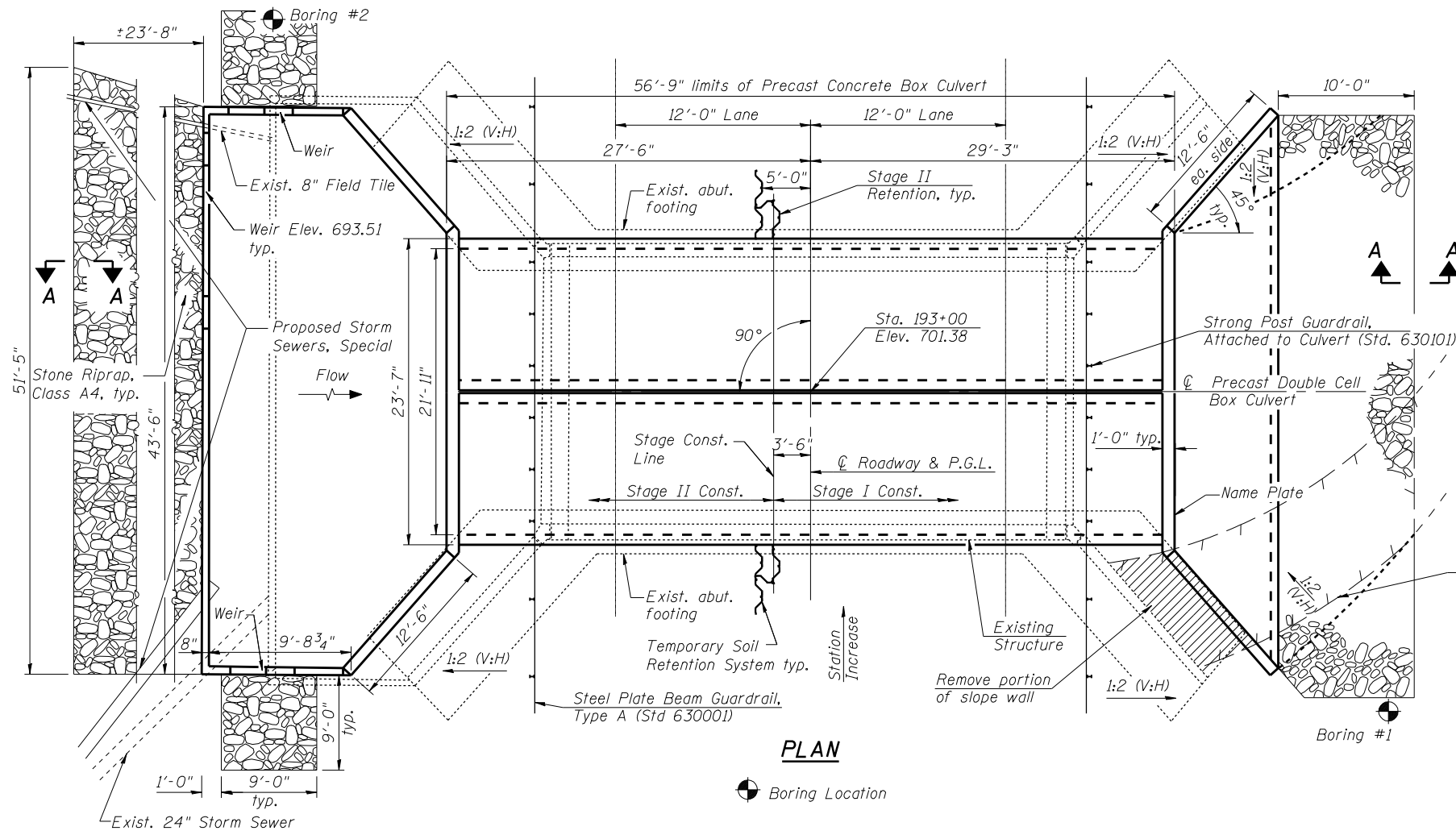
Structure to be replaced with a double box culvert and new drop box inlet.

Traffic to be maintained utilizing stage construction.

No Salvage.



Depth of Removal and Disposal of Unsuitable Material for Structures and replacement with Porous Granular Material Bedding and Rock Fill, typ.



S D I ENGINEERING CORP.
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USER NAME = #USER#	DESIGNED - AA	REVISED -
PLOT SCALE = #SCALE#	DRAWN - CO	REVISED -
PLOT DATE = #DATE#	CHECKED - OAO	REVISED -
	DATE - 01-25-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LICENSED STRUCTURAL ENGINEER
OLUFEMI A. OLADEINDE
081-005196
CHICAGO
STATE OF ILLINOIS
L.I.C. EXP: 11/30/2020

Olufemi A. Oladinde
Signature
02/2019
Date

GENERAL PLAN & ELEVATION
S.N. 038-2023
SHEET NO. 1 OF 10 SHEETS

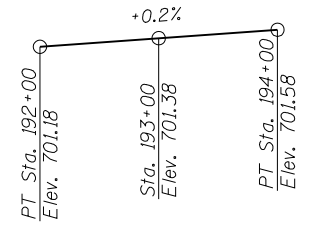
WATERWAY INFORMATION

Drainage Area = 3.23 Sq. Mi.		Exist. Low Grade Elevation: 700.55 ft. @ Sta. 190+50 Prop. Low Grade Elevation: 700.55 ft. @ Sta. 190+50							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Hydraulic Design	10	583	119	121	696.1	1.6	1.3	697.7	697.4
Base/Scour Des.	50	954	126	128	696.4	2.9	2.0	699.2	698.4
Scour Check	100	1120	129	131	696.6	3.4	2.4	700.0	699.0
Max. Calc.	200	1298	132	134	696.7	4.1	2.9	700.8	699.6
Overtopping	500	1530	136	138	696.9	4.9	3.7	701.8	700.6
		NA	NA	NA	NA	NA	NA	NA	NA

10-year velocity exist. 4.9 fps 10-year velocity prop. 4.2 fps

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	D.S. Invert	U.S. Invert
	686.5	689.2



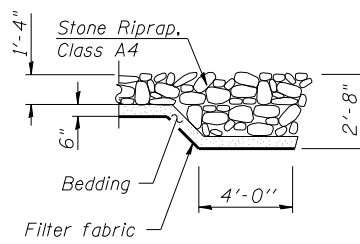
PROFILE GRADE

(along C.F.A.P. Rte. 332)

STATION 193+00
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RT. 332 SEC. 17R-BR-1
LOADING HL-93
STR. NO. 038-2023

NAME PLATE

See Std. 515001



SECTION A-A

INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 General Data
- 3 Stage Construction
- 4 Temporary Concrete Barrier for Stage Construction
- 5 Downstream End Section Details
- 6 Upstream End Section Details
- 7 Soil Boring Logs
- 8-10 Existing Bridge Plans

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

LOADING HL-93

Truck or tandem loading only, as applicable.

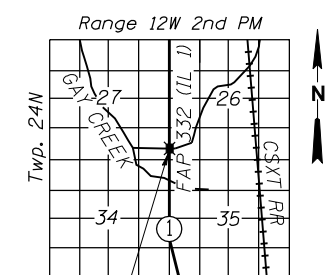
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (Concrete)
fy = 60,000 psi (Reinforcement)

PRECAST UNITS

f'c = 5,000 psi (Concrete)
fy = 60,000 psi (Reinforcement)
fy = 65,000 psi (Welded Wire Fabric)



LOCATION SKETCH

GENERAL PLAN & ELEVATION
F.A.P. ROUTE 332 (IL 1)

OVER GAY CREEK
SECTION 17R-BR-1
IROQUOIS COUNTY
STATION 193+00
STRUCTURE NUMBER 038-2023

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(17R-BR-1)	IROQUOIS	34	17
CONTRACT NO. 66879				

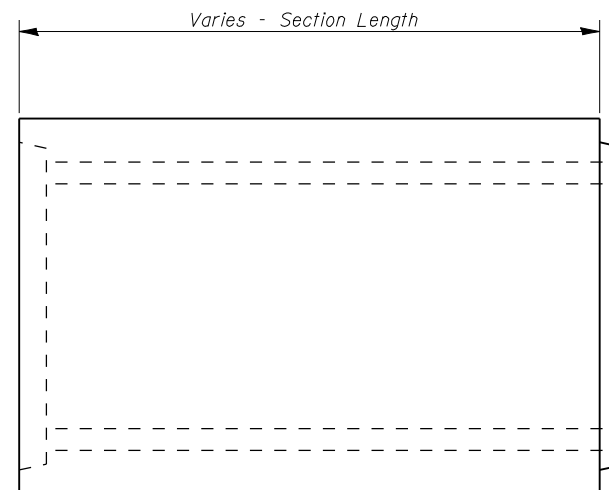
ILLINOIS FED. AID PROJECT

GENERAL NOTES

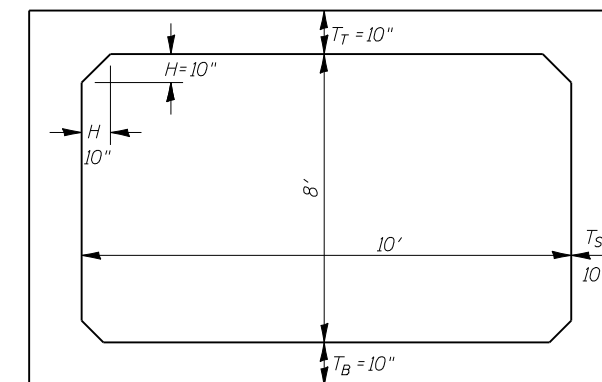
1. Cost of excavation shall be included with the item for which the work is required.
2. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
3. Reinforcement bars designated (E) shall be epoxy coated.
4. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
5. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
6. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
7. The top 6" of the compacted granular material bedding used to replace the unsuitable material directly below the Precast Concrete Box Culvert and the cast-in-place drop inlet structure and apron shall be clean crushed CA-7. The extents of this item shall include all material below and within 3'-0" of the outside of the structure in each direction at the depth shown, and shall be paid for as Porous Granular Embankment. The actual amount shall be determined in the field by the Engineer. The remaining material used for replacement shall be Rock Fill.
8. All cast-in-place concrete dimensions controlled by the dimensions of the precast structure shall be adjusted to match the finalized dimensions of the precast structure as required. All other dimensions shall remain as shown.
9. Design of the proposed Precast Concrete Box Culverts shall be according to the requirements of ASTM C 1577, and shall be provided by the Contractor. Cost included in Precast Concrete Box Culvert 10'x8'. The seal on these plans does not apply to the design of the Precast Concrete Box Culverts.
10. The design fill height for the Precast Concrete Box Culverts is 2'.

TOTAL BILL OF MATERIAL

Item	Unit	Total
Porous Granular Embankment	Cu. Yd.	451
Stone Riprap, Class A4	Sq. Yd.	206
Filter Fabric	Sq. Yd.	206
Removal of Existing Structures	Each	1
Slope Wall Removal	Sq. Yd.	11
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	212
Reinforcement Bars	Pound	2,280
Reinforcement Bars, Epoxy Coated	Pound	990
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	58.2
Precast Concrete Box Culvert 10'x8'	Foot	113.5
Rock Fill	Cu. Yd.	176
Geocomposite Wall Drain	Sq. Yd.	155.7
Membrane Waterproofing System For Buried Structures	Sq. Yd.	155.7

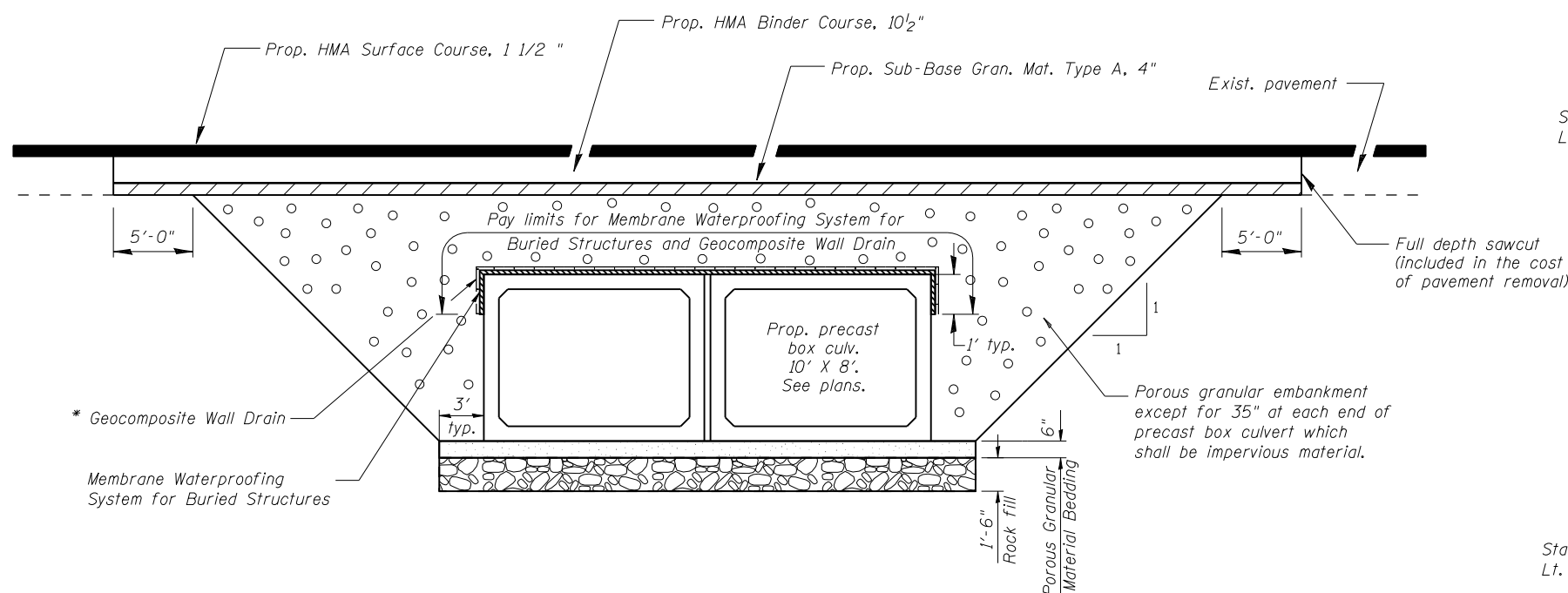


ELEVATION



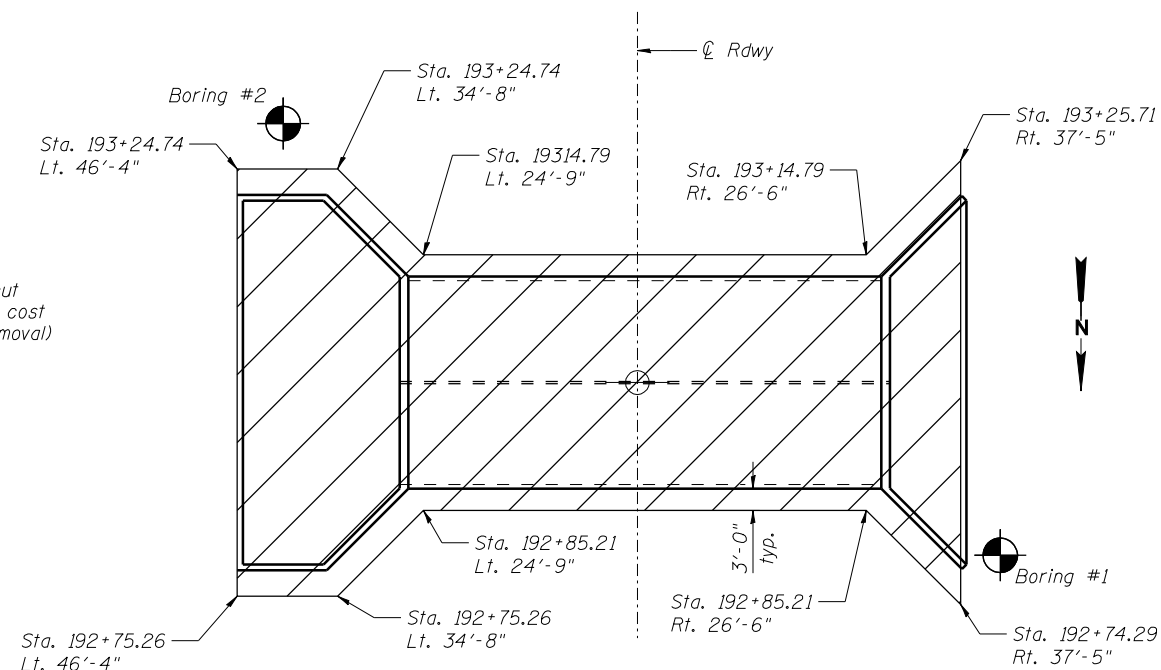
TYPICAL BOX SECTION

Precast Box Culvert Schedule (ASTM C 1577)					
Station	Size (Span x Height)	Skew	Design Fill Heights (ft.)		PGE backfill required
			Edge of shldr. (minimum)	Maximum	
193+00	DBL 10'x8'	0°	2'	3'	Yes



SECTION THROUGH PRECAST BOX CULVERT

* Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.



PLAN

(Limits of removal of unsuitable material and placement of Rock Fill and Porous Granular Material Bedding)



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PLOT SCALE = #SCALE#	DRAWN - CO	REVISED -
PLOT DATE = #DATE#	CHECKED - OAO	REVISED -
	DATE - 01-25-2019	REVISED -

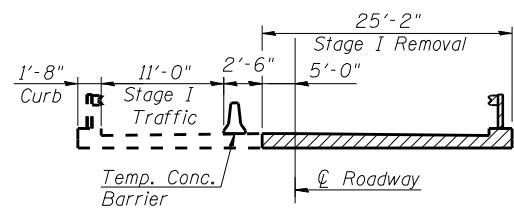
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
S.N. 038-2023**

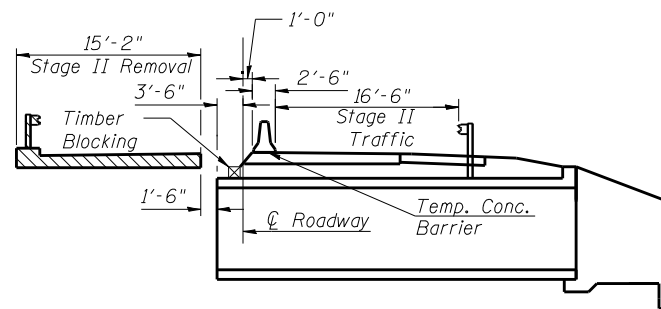
SHEET NO. 2 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(17R-BR-1)	ILLINOIS	34	18
CONTRACT NO. 66879				

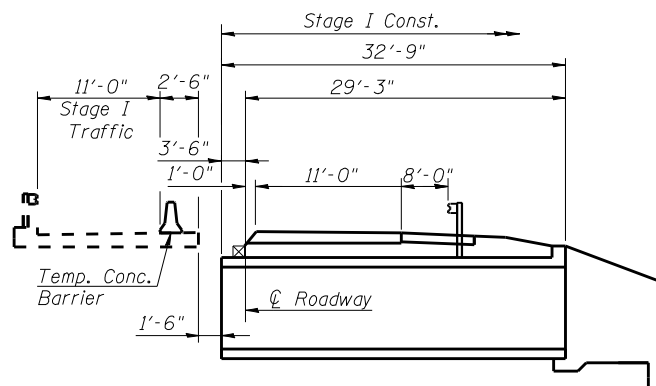
ILLINOIS FED. AID PROJECT



STAGE I REMOVAL

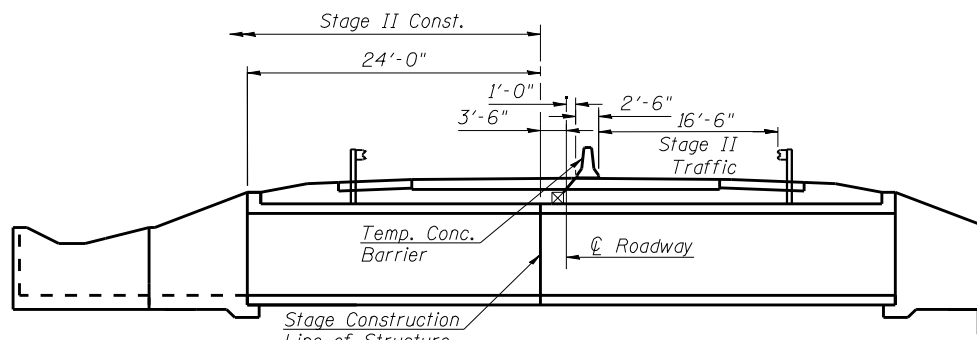


STAGE II REMOVAL

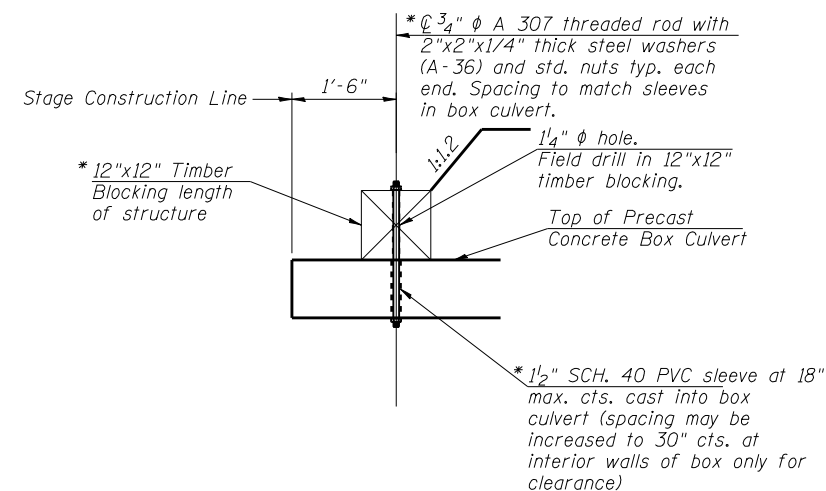


STAGE I CONSTRUCTION DIAGRAM

Wide load detour required for Stage I traffic

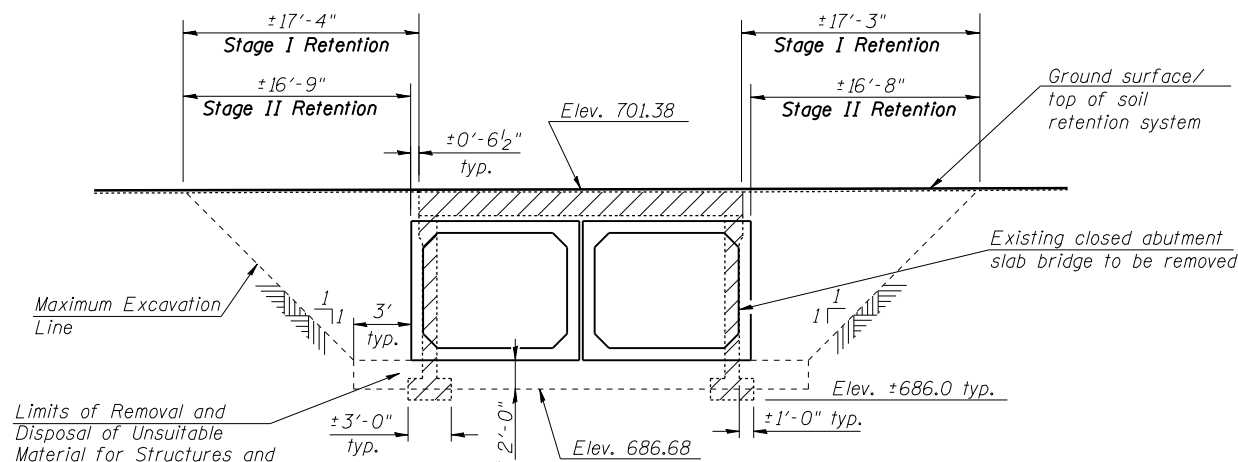


STAGE II CONSTRUCTION DIAGRAM



TIMBER BLOCKING DETAIL

* Cost included with Precast Concrete Box Culvert 10'x8'

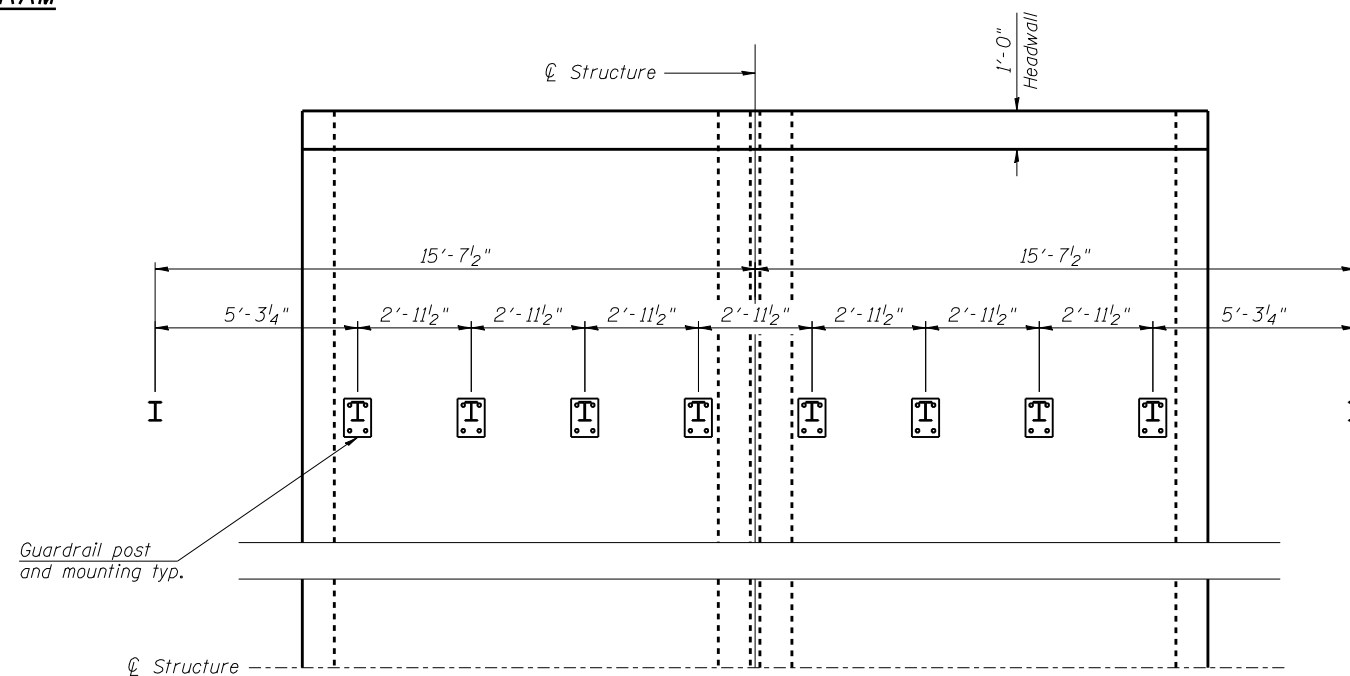


TEMPORARY SOIL RETENTION SYSTEM

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

Rock Fill material shall be used to fill the voids left from the removal of the existing footings.

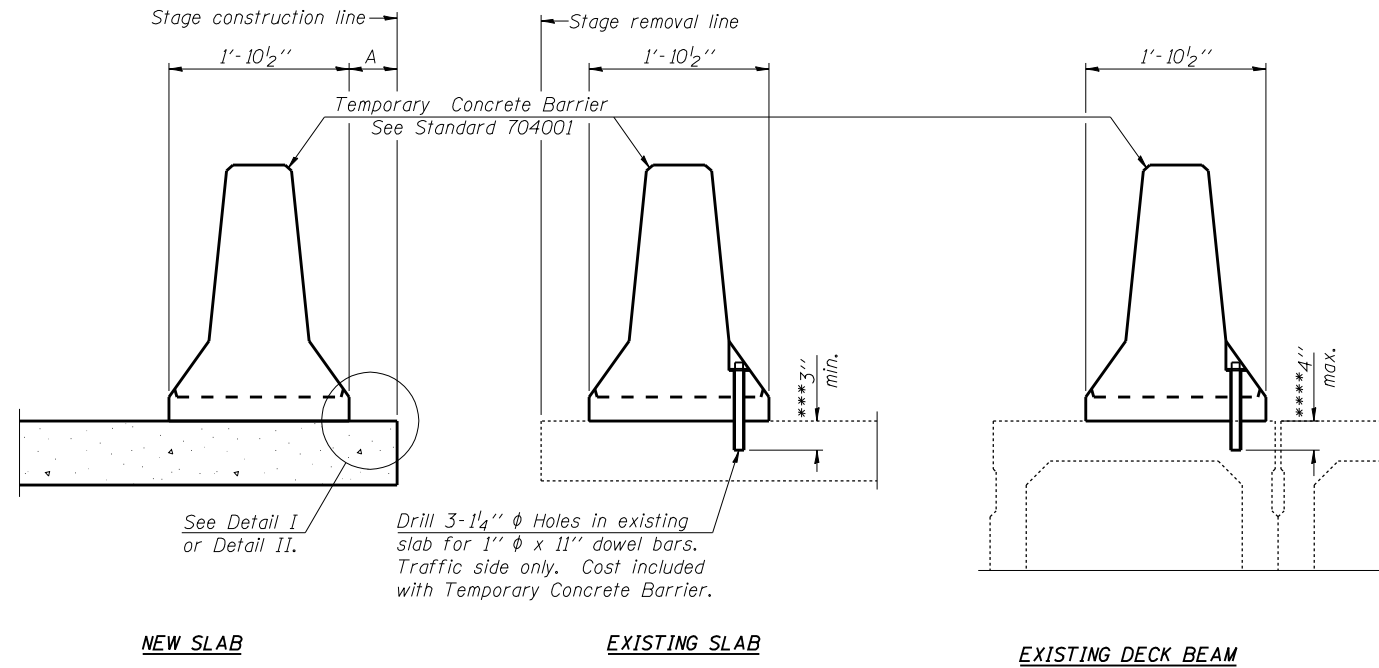
* See sheet 2 of 10 for additional requirements. Adjust length of retention shown per additional depth required and 1:1 excavation.



STRONG POST GUARDRAIL ATTACHED TO CULVERT LAYOUT DETAIL

See Highway Std. 630101-10

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

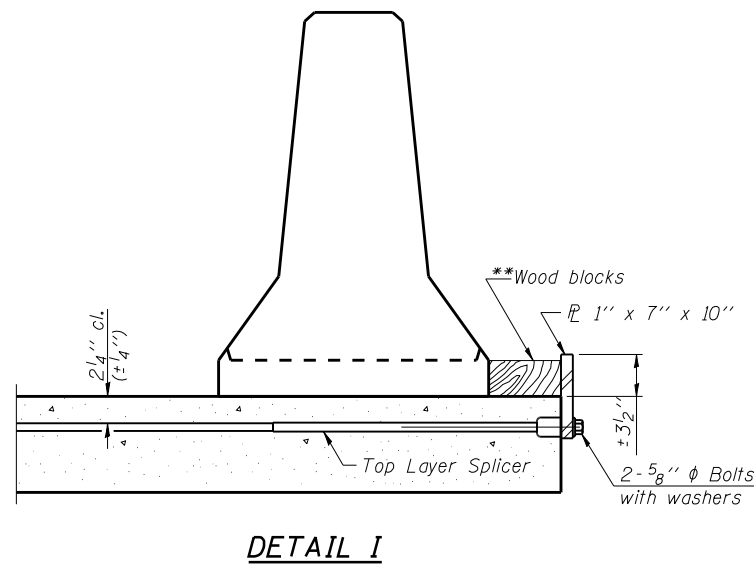
Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel PL to the top layer of couplers with 2-5/8" φ bolts screwed to coupler at approximate C of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel PL to the concrete slab or concrete wearing surface with 2-5/8" φ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate C of each barrier panel.

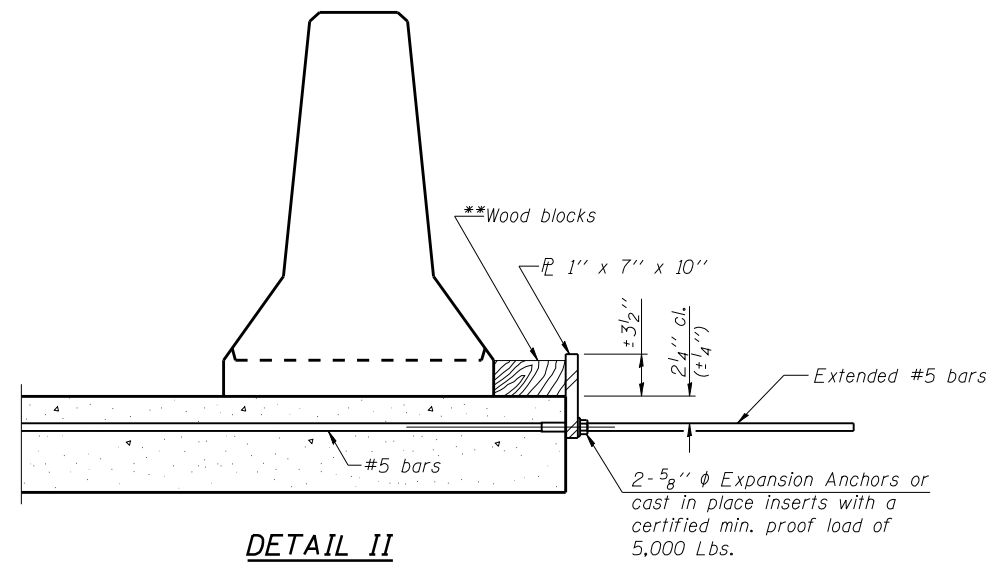
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.

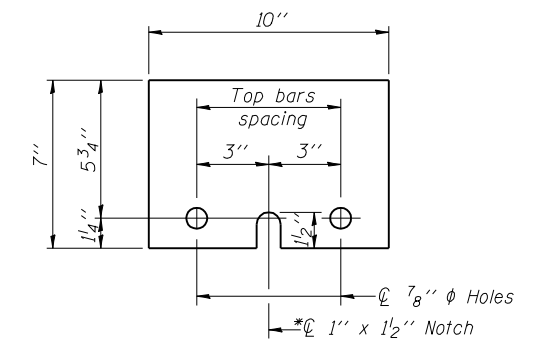


DETAIL I



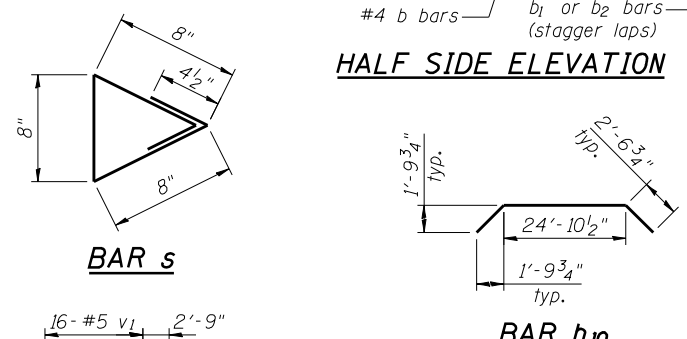
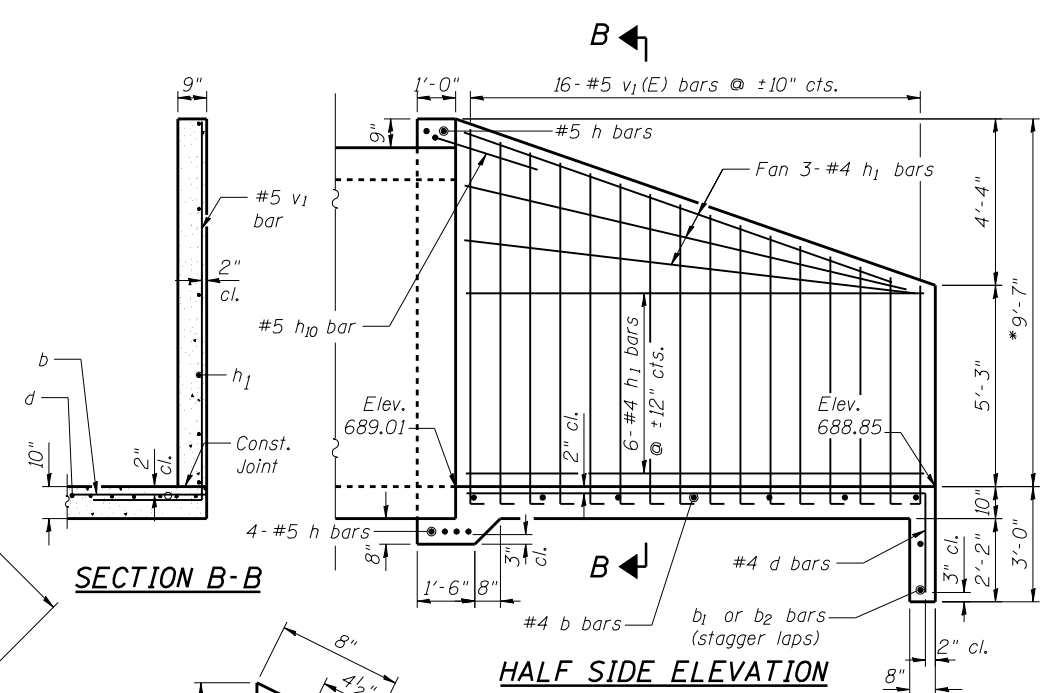
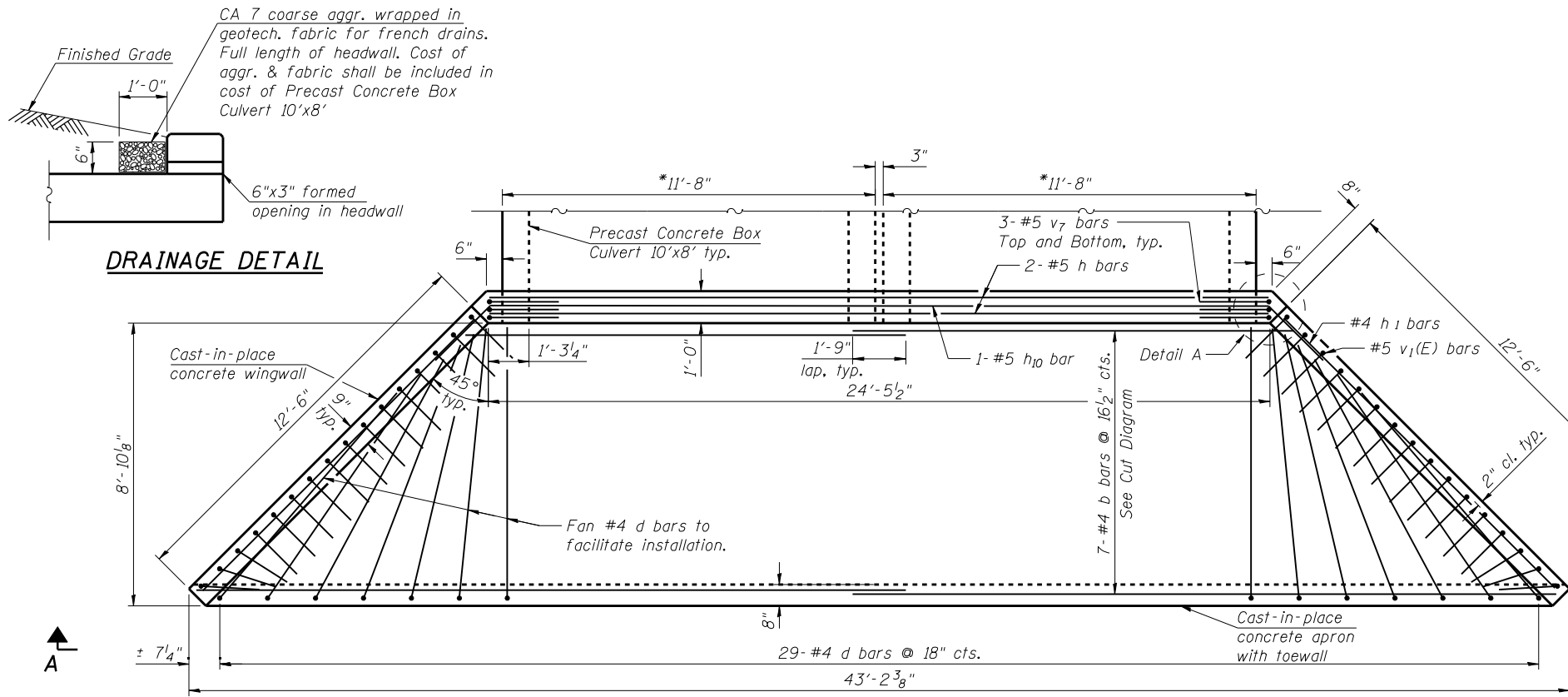
DETAIL II

**Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

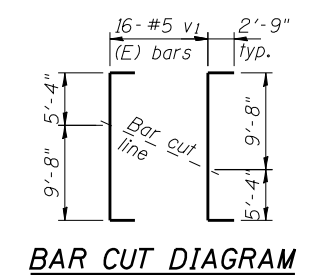
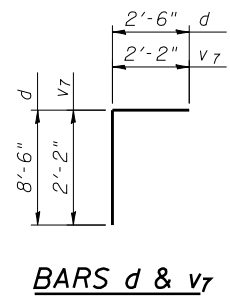


STEEL RETAINER PL 1' x 7' x 10'

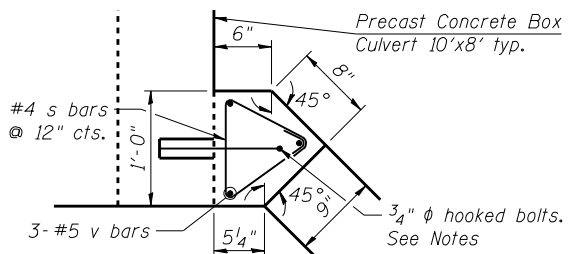
* Required only with Detail II



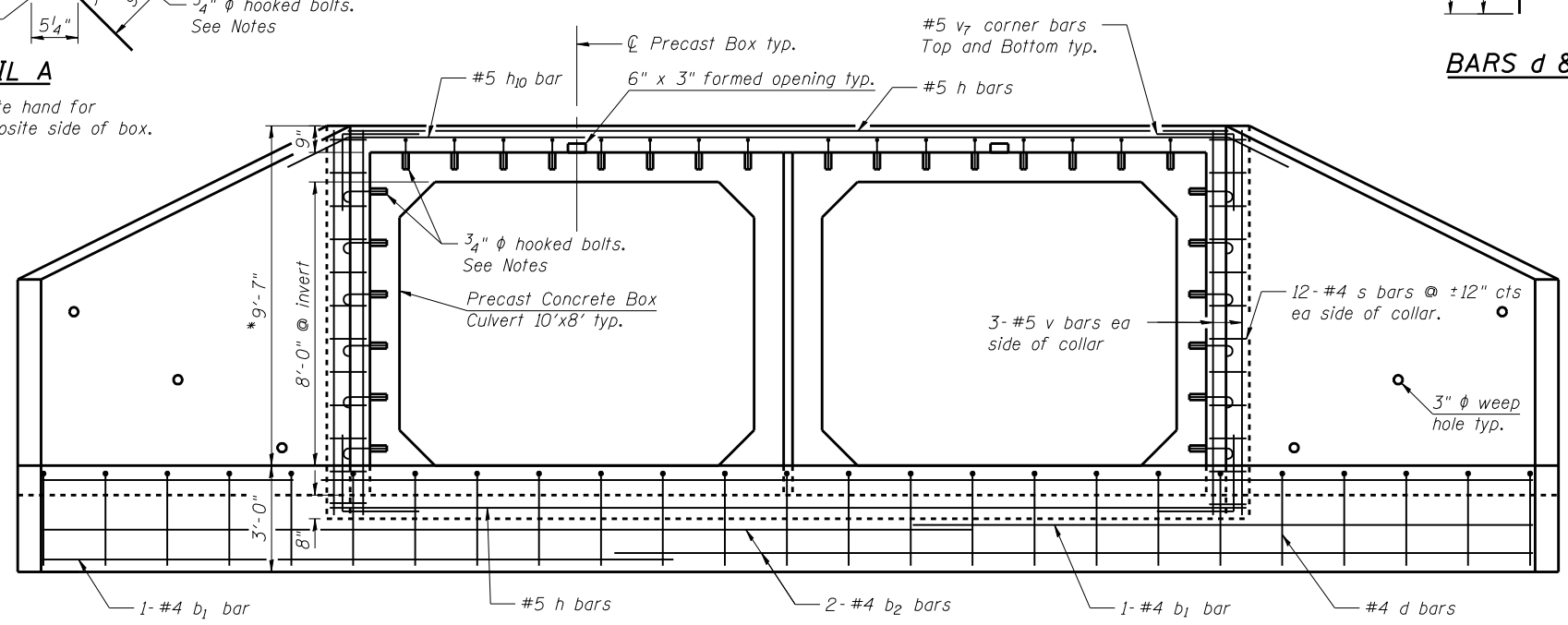
PLAN
* See General Notes on sheet 2 of 10



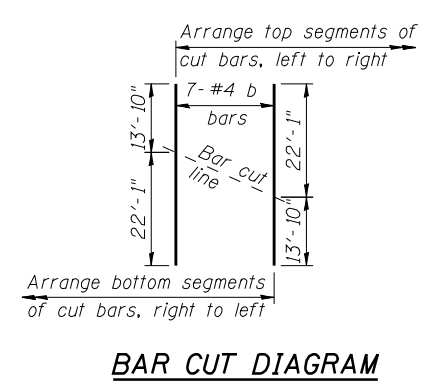
Notes:
All edges shall have standard 3/4 inch chamfers, except as noted.
To connect cast-in-place collar to precast box, provide 3/4 inch hooked bolts with embedded inserts at 18 inch maximum centers. Space to miss 6x3 inch formed openings. Hooked bolts shall extend 6 inch into headwall and sides of collar. Cost shall be included in the Precast Concrete Box Culvert 10x8'.
All construction joints shall be bonded.



DETAIL A
Detail is opposite hand for wingwall on opposite side of box.



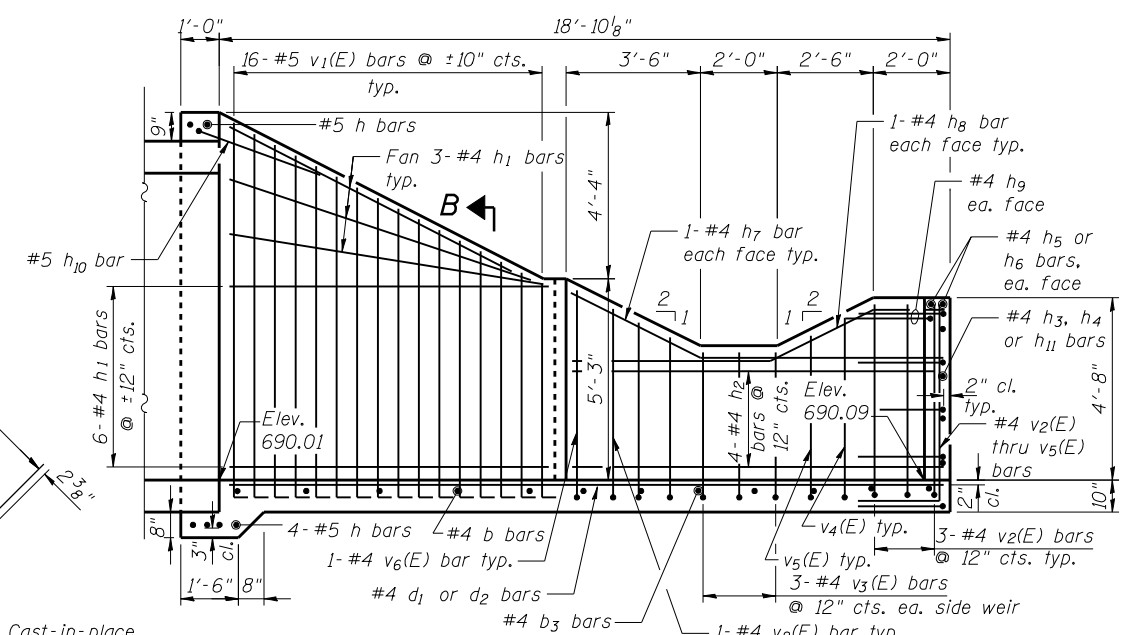
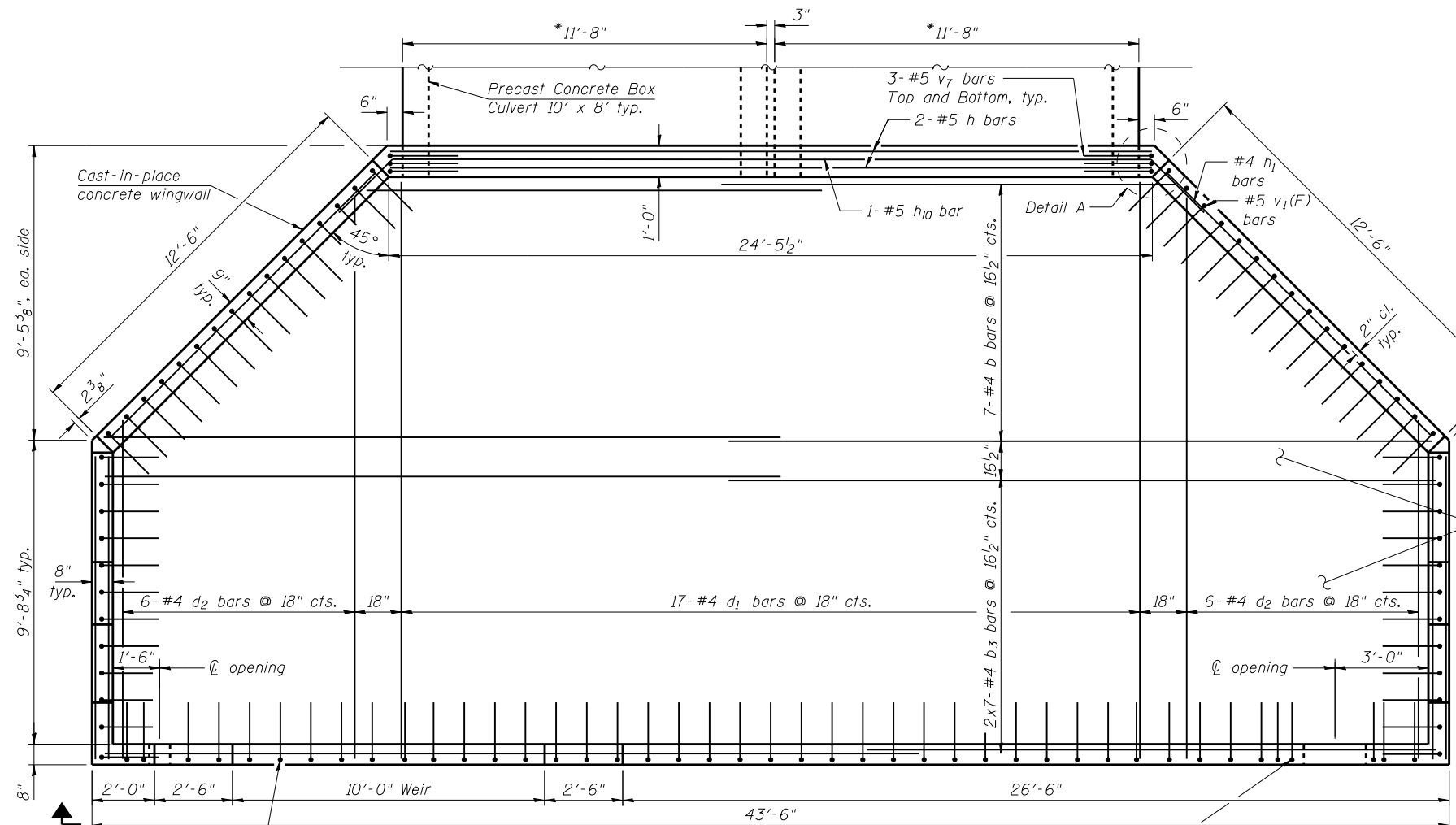
VIEW A-A
MIN. BAR LAP
#4 bar = 1'-9"
#5 bar = 2'-2"



BAR CUT DIAGRAM
Order b bars full length. Cut and arrange as shown, with the upper segments of the cut bars left to right lapped (1'-9") to the lower segments right to left. Place in apron concrete starting with the shortest lap spliced pair of bars at 16 1/2 inch centers from the edge at the invert of the PreCast Box Culvert and outwards.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b	7	#4	35'-11"	—
b1	2	#4	14'-9"	—
b2	2	#4	30'-0"	—
d	29	#4	11'-0"	┌
h	6	#5	24'-5"	—
h1	18	#4	12'-10"	—
h10	1	#5	30'-0"	—
s	24	#4	2'-9"	△
v	6	#5	10'-8"	—
v1(E)	16	#5	20'-6"	┌
v7	12	#5	4'-4"	┌
Concrete Box Culverts		Cu. Yd.	20.5	
Reinforcement Bars		Pound	950	
Reinforcement Bars, Epoxy Coated		Pound	350	
Precast Concrete Box Culvert 10x8'		Foot	113.5	



Notes:

All edges shall have standard $\frac{3}{4}$ " chamfers, except as noted.

To connect cast-in-place collar to precast box, provide $\frac{3}{4}$ " hooked bolts with embedded inserts at 18" maximum centers. Space to miss 6"x3" formed openings. Hooked bolts shall extend 6" into headwall and sides of collar. Cost shall be included in the Precast Concrete Box Culvert 10'x8'.

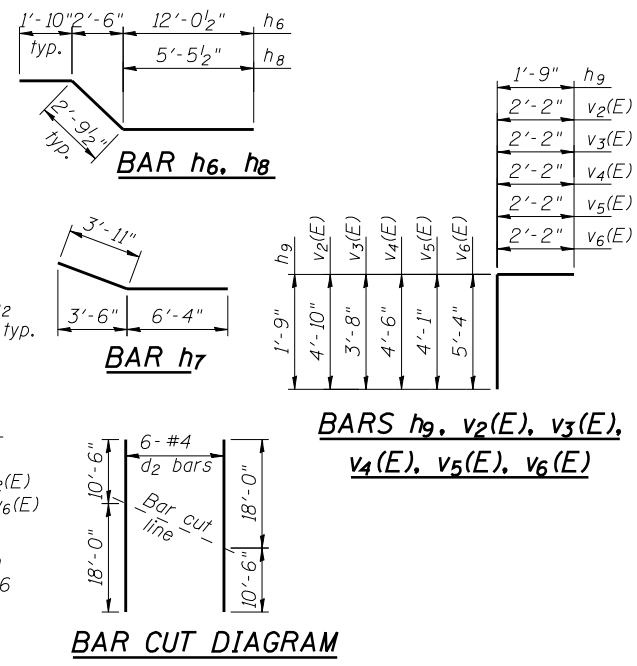
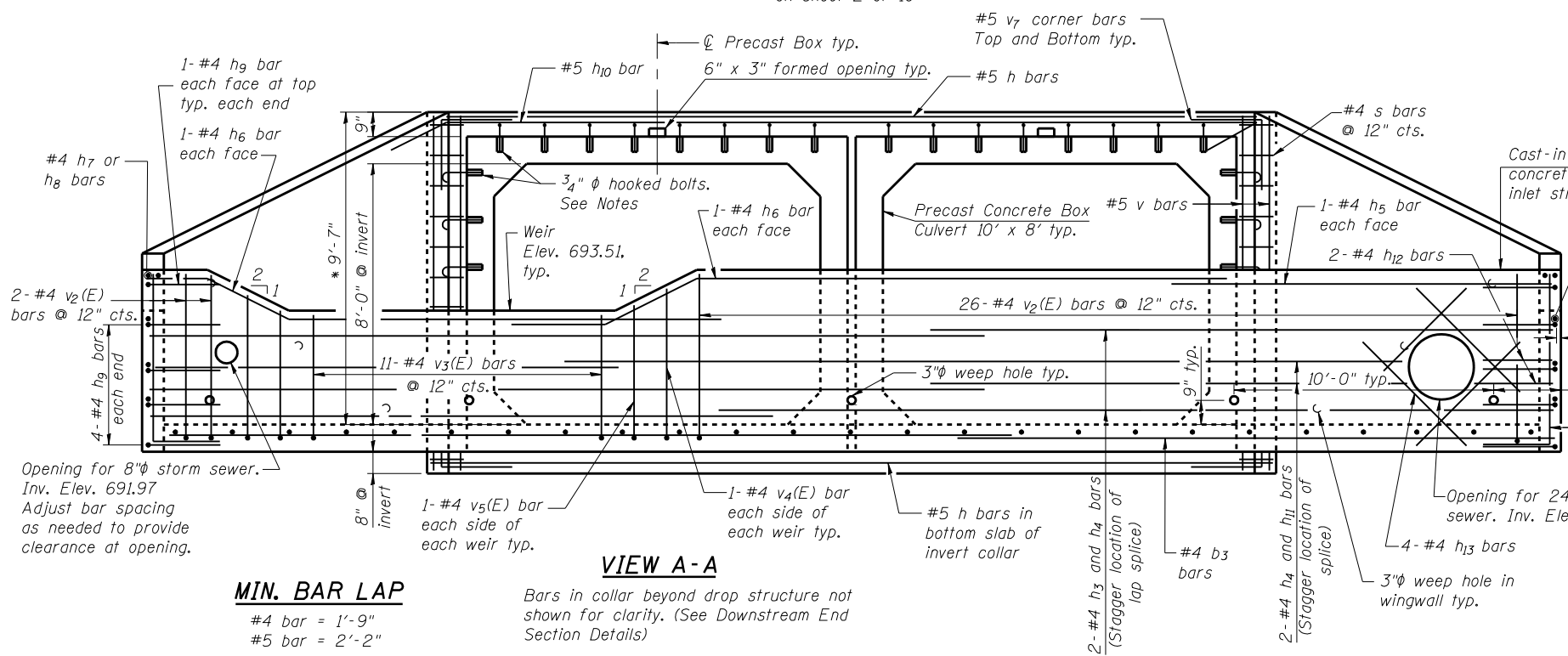
See sheet 5 of 10 for bars b, s, h_{10} , $v_1(E)$, v_7 , and Drain Detail, Detail A, and section B-B.

All construction joints shall be bonded.

Precast Concrete Box Culvert 10'x8' is billed on sheet 5 of 10. Bars indicated thus 2x7-#4 etc. indicates 7 lines of #4 bars with 2 lengths per line.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b	7	#4	35'-11"	—
b ₃	14	#4	22'-6"	—
d ₁	17	#4	18'-6"	—
d ₂	6	#4	28'-6"	—
h	6	#5	24'-5"	—
h ₁	18	#4	12'-10"	—
h ₂	8	#4	10'-0"	—
h ₃	2	#4	19'-0"	—
h ₄	4	#4	25'-10"	—
h ₅	2	#4	16'-0"	—
h ₆	4	#4	16'-8"	—
h ₇	4	#4	10'-3"	—
h ₈	4	#4	10'-1"	—
h ₉	12	#4	3'-6"	—
h ₁₀	1	#5	30'-0"	—
h ₁₁	2	#4	14'-4"	—
h ₁₂	2	#4	2'-3"	—
h ₁₃	4	#4	4'-6"	—
s	24	#4	2'-9"	△
v	6	#5	10'-8"	—
v ₁ (E)	16	#5	20'-6"	—
v ₂ (E)	36	#4	7'-0"	—
v ₃ (E)	17	#4	5'-10"	—
v ₄ (E)	6	#4	6'-8"	—
v ₅ (E)	6	#4	6'-3"	—
v ₆ (E)	2	#4	7'-6"	—
v ₇	12	#5	4'-4"	—
Concrete Box Culverts	Cu. Yd.		37.7	
Reinforcement Bars	Pound		1,330	
Reinforcement Bars, Epoxy Coated	Pound		640	



SOIL BORING LOG

ROUTE FAP 332 (IL 1) DESCRIPTION IL 1 over Gay Creek, 2.29 miles South of Wellington Road LOGGED BY Larry Myers

SECTION 17R-BR-1 LOCATION SW 1/4, SEC. 26, TWP. 24N, RNG. 12W, 2nd PM

COUNTY Iroquois DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	D	B	U	M
038-0165 (Exist.)	193+00	1 NW Quad	192+80	42.00ft Rt	694.17	(ft)	(/6")	(tsf)	(%)	687.23	ft	670.2	ft	670.7	ft	ft	(ft)	(/6")	(tsf)	(%)
Augered Black Silty Clay Loam and Concrete debris	692.17																			
Hard Black Gray Silty Clay Loam fill with Concrete debris	690.17					6		>4.5	15.4											
Very Stiff Gray Silty Clay Loam Till	687.67					3														
Hard Gray Silty Clay Loam Till						3		5.6	18.0											
						7		S												
						7		7.4	16.3											
						10		S												
						5														
						7		7.4	16.7											
						12		S												
						5														
						7		5.6	16.2											
						11		S												
						4														
						6		4.3	17.5											
						10		S												
Very Stiff Gray Silty Clay to Clay Till	675.17					3														

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

ROUTE FAP 332 (IL 1) DESCRIPTION IL 1 over Gay Creek, 2.29 miles South of Wellington Road LOGGED BY Larry Myers

SECTION 17R-BR-1 LOCATION SW 1/4, SEC. 26, TWP. 24N, RNG. 12W, 2nd PM

COUNTY Iroquois DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	Hrs.	D	B	U	M
038-0165 (Exist.)	193+00	2 SE Quad	193+30	41.00ft Lt	694.64	(ft)	(/6")	(tsf)	(%)	687.23	ft	670.2	ft	670.7	ft	ft	(ft)	(/6")	(tsf)	(%)
Augered Black/Brown Silty Clay Loam Fill with Large Cobble (erosion control)	692.14																			
Black/Brown Silty Clay Loam - Fill	690.14					4		no												
						5		recovery												
Very Loose Brown Very Loamy Sand and Gravel (Fill?)	687.64					1														
						2			19.1											
						2														
Hard Brown Silty Clay Loam Till	682.64					2		5.2	16.9											
						5		S												
						8														
						5														
						10		9.9	16.1											
						12		S												
Hard Gray Silty Clay Loam Till	677.64					4														
						6		4.5	17.3											
						10		B												
						4														
						4		4.2	18.9											
						8		B												
						4														
						4		4.2	18.9											
						8		B												
Very Stiff Gray Silty Clay Till with layers of Gray Silt (minor) and some layers of Sand and Gravel @ 25'	658.14					2														
						4		3.0	20.4											
						6		B												

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

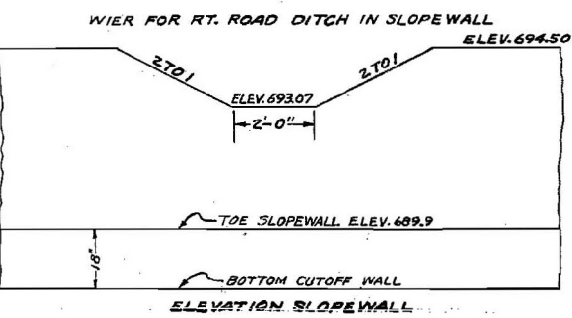
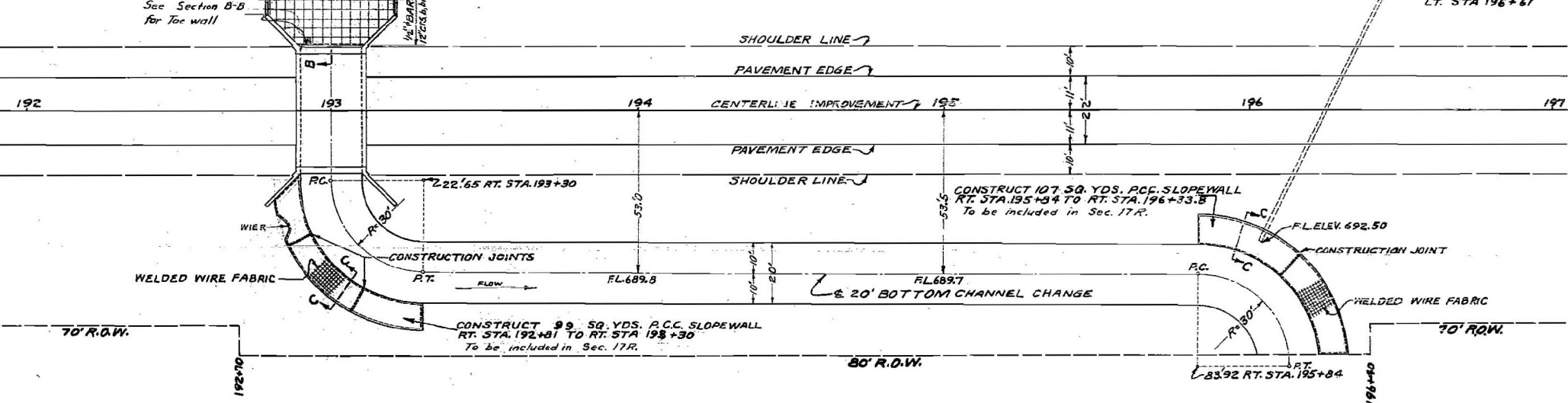
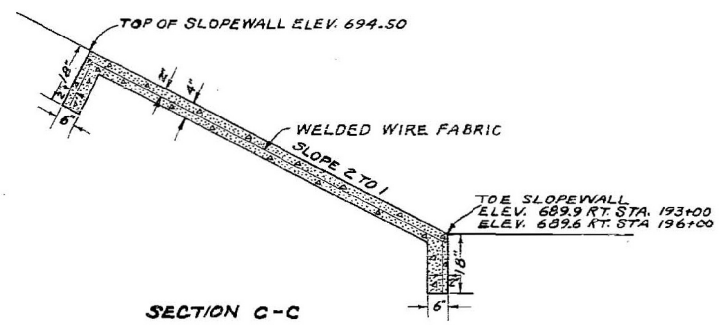
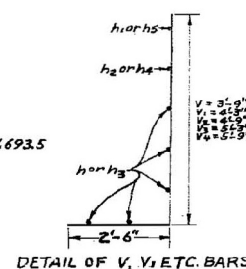
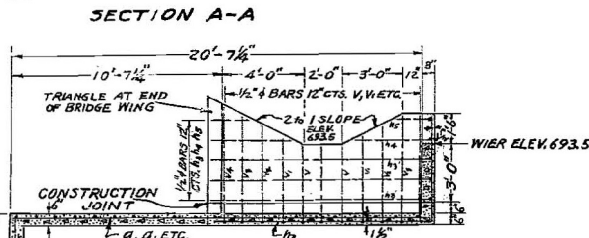
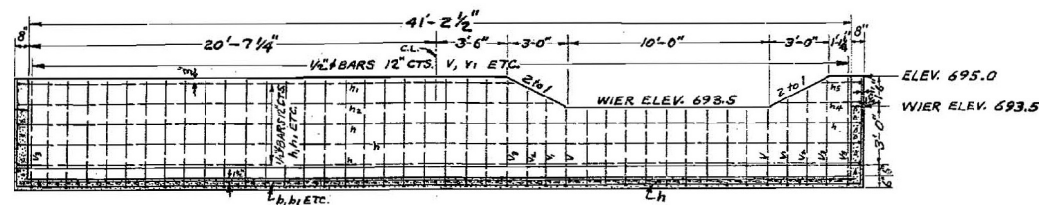
DETAILS OF SPECIAL DRAINAGE STA. 193+00 TO STA. 196+00

F.A.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
17R	17RB	Iroquois	43	6
PROJECT NO. 038-0165			DATE	10/23
DRAWN BY			SCALE	1"=20'

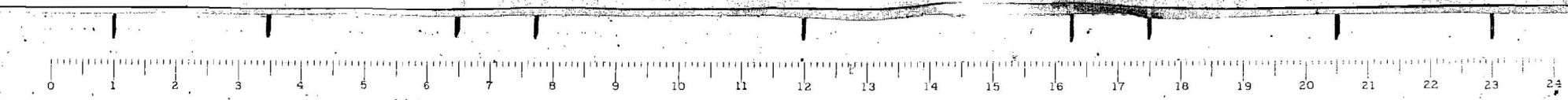
BILL OF MATERIAL

Bar's Number	Size	Length
a	20	1/2" x 21'-0"
a1	2	1/2" x 20'-0"
a2	2	1/2" x 19'-6"
a3	2	1/2" x 18'-6"
a4	2	1/2" x 17'-6"
a5	2	1/2" x 16'-6"
a6	2	1/2" x 15'-6"
a7	2	1/2" x 14'-6"
a8	2	1/2" x 13'-6"
a9	2	1/2" x 12'-6"
a10	2	1/2" x 11'-6"
a11	2	1/2" x 10'-6"
b	20	1/2" x 21'-9"
b1	2	1/2" x 20'-9"
b2	2	1/2" x 19'-9"
b3	2	1/2" x 18'-9"
b4	2	1/2" x 17'-9"
b5	2	1/2" x 16'-9"
b6	2	1/2" x 15'-9"
b7	1	1/2" x 14'-9"
b8	1	1/2" x 13'-9"
b9	1	1/2" x 12'-9"
b10	1	1/2" x 11'-9"
b11	1	1/2" x 10'-9"
h	10	1/2" x 21'-6"
h1	1	1/2" x 20'-6"
h2	1	1/2" x 19'-6"
h3	10	1/2" x 11'-0"
h4	10	1/2" x 4'-3"
h5	10	1/2" x 2'-3"
v	17	1/2" x 8'-3"
v1	6	1/2" x 6'-9"
v2	6	1/2" x 7'-3"
v3	5	1/2" x 7'-9"
v4	2	1/2" x 8'-3"

Class 2 concrete CULV. 21.8
Reinforcing Steel Lbs. 1620



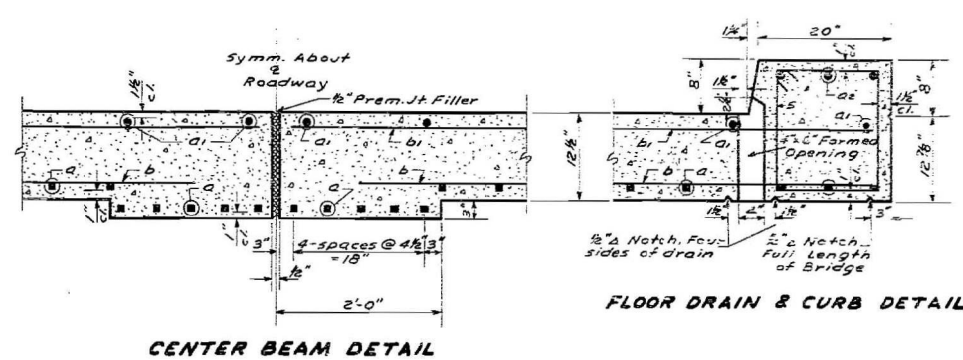
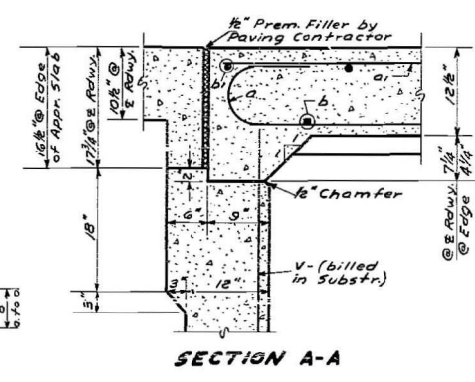
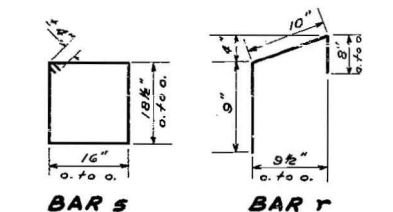
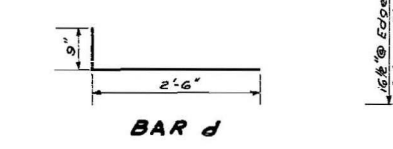
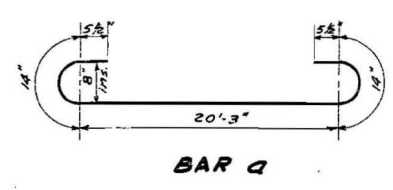
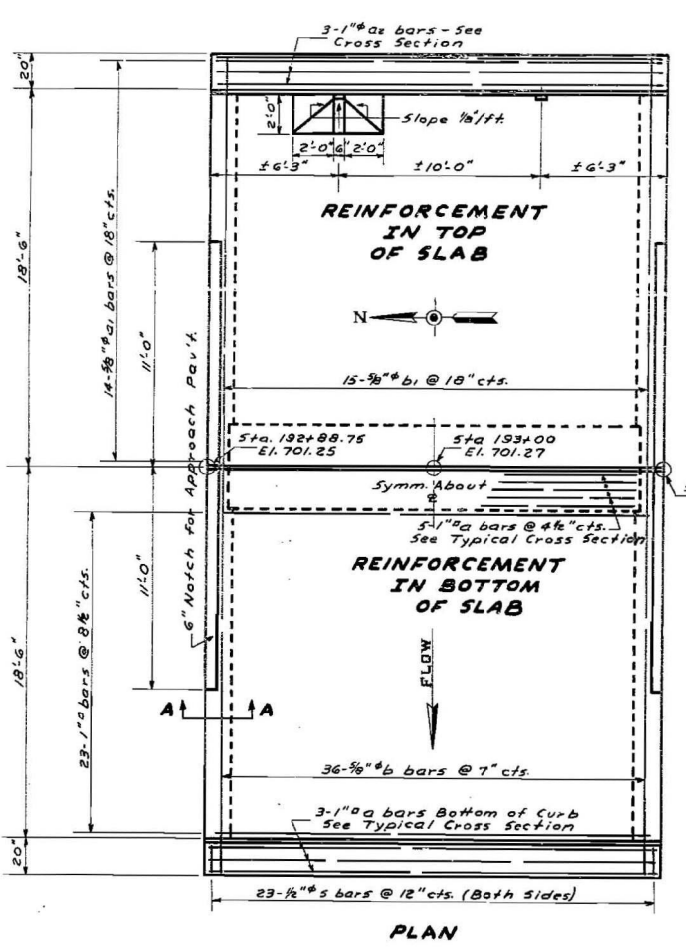
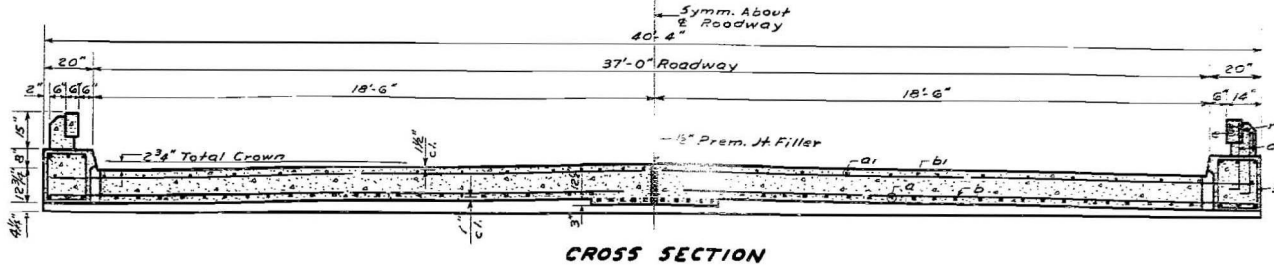
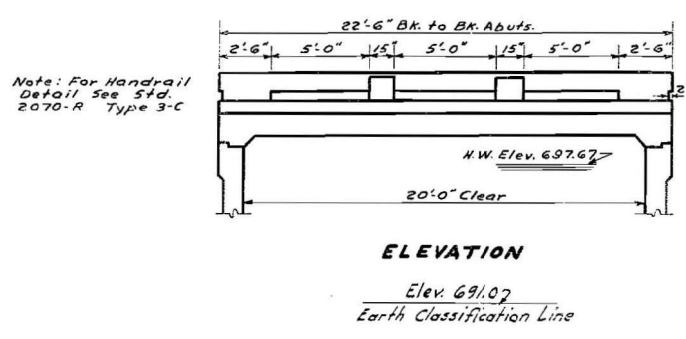
FOR INFORMATION ONLY
STRUCTURE NUMBER 038-0165 (EXISTING)



B.M. - No. 18 on S.E. Wing of Br. Abut 1st Left
Sta. 192+89, Elev. 697.20
Existing Structure - One Span R.C. Slab, R.C. Substructure, Span 16'
& 30 ft. Rdy. - To be removed by Bridge Contractor
before starting new Bridge.

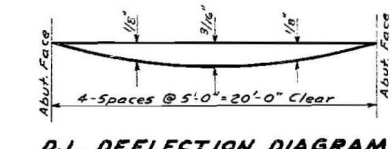
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	17-R-1	SHEET NO.	10	8	SHEET NO. 1
FED. ROAD DIST. NO. 1		FED. AID PROJECT		F-2(22)	
				2 SHEETS	



FLOOR DRAIN & CURB DETAIL

STATION 193+00
BUILT 195 BY
STATE OF ILLINOIS
F.A.R.T. I SEC. 17-R-B
F.A. PROJ. F-2 (22)
LOADING H20-516
NAME PLATE
Std. 1882



GENERAL NOTES
Class X Concrete shall be used throughout except as noted.
Handrail concrete shall be used in the handrail. Handrail shall not be poured until the falsework has been removed.
The concrete on either side of center joint shall be poured in one continuous operation.
The falsework on one side of the center joint shall not be removed until after the floor slab and curb are poured on the other side.

For backfill behind abutments see Art. 50.10 of the standard specs.
The drop box is to be included in the Bridge Contract.
Foundation Material, blue clay. No piles used under existing structure.
Back of Abutments and wing walls from the top of the slab or top of the wall to the top of the footing shall be waterproofed in accordance with Article 51.20 of the Std. Specs. Adopted Jan. 2, 1952.

BILL OF MATERIAL - SUPER

Bar	No.	Size	Length	Shape
a	62	1" #4	23'6"	U
a1	28	5/8" #4	21'0"	—
a2	6	1" #4	22'0"	—
b	72	5/8" #4	19'0"	—
b1	30	5/8" #4	19'0"	—
d	36	5/8" #4	3'3"	—
e	8	5/8" #4	20'6"	—
r	16	1/2" #4	2'3"	—
s	46	1/2" #4	6'9"	—
Class X Concrete				cu.yds. 36.1
Handrail Concrete				cu.yds. 1.1
Reinforcement Bars				lbs. 8,430
Name Plate				each One

All reinf. bars shall conform to A.S.T.M. Specifications 4.305.

TOTAL BILL OF MATERIAL

Item	Super	Sub.	Total
Class X Concrete	cu.yds. 36.1	107.8	143.9
Handrail Concrete	cu.yds. 1.1	—	1.1
Reinforcement Bars	lbs. 8430	5670	14,100
Removal of Exist. Str.	ea. One	—	One
Name Plate	ea. One	—	One
Class A Excav. for Str.	cu.yds. —	—	—
Class B Excav. for Str.	cu.yds. —	—	—

* Does not include quantities in Drop Box. See Road Plan Sheet "Details of Special Drainage, Sta. 193+00 to Sta. 196+00".

WATERWAY INFORMATION
Drainage Area = 2000 Acres
Character = Rolling
Channel = C (Talbot)
Opening Required = 92 sq. ft.
Opening Provided = 153 sq. ft.

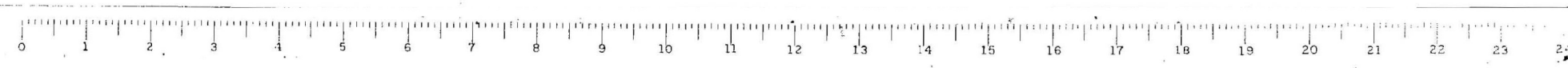
STRESSES
fs = 20,000 psi
fc = 1,200 psi (super)
fc = 800 psi (sub)
n = 10
H-20-5-16 Loading (1944)

PROJECT F-2(22)
F.A. RT. I SEC. 17-R-B
IROQUOIS COUNTY
STA. 193+00

FOR INFORMATION ONLY
STRUCTURE NUMBER 038-0165 (EXISTING)

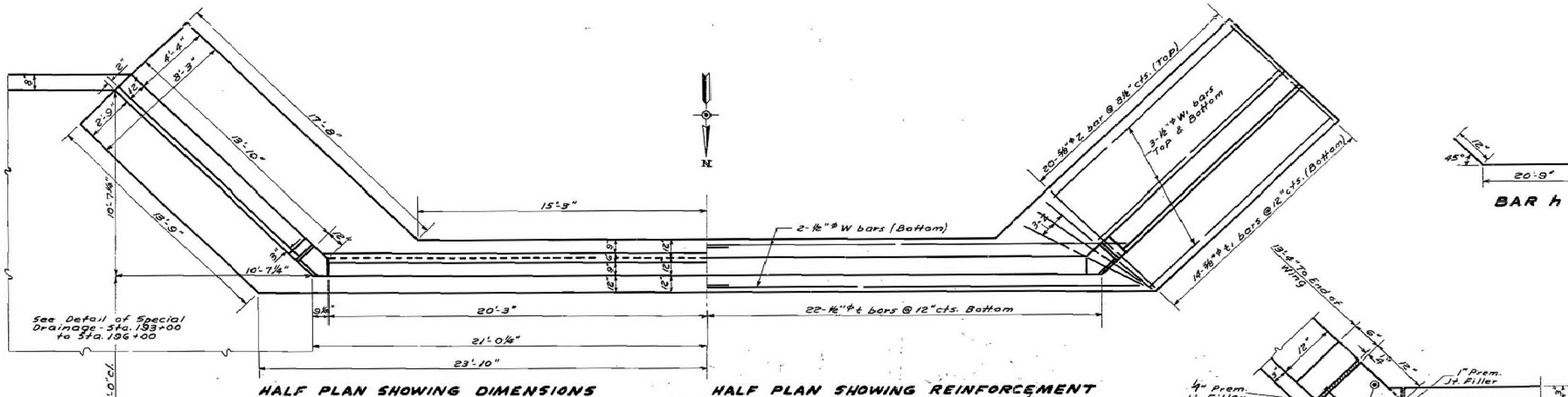
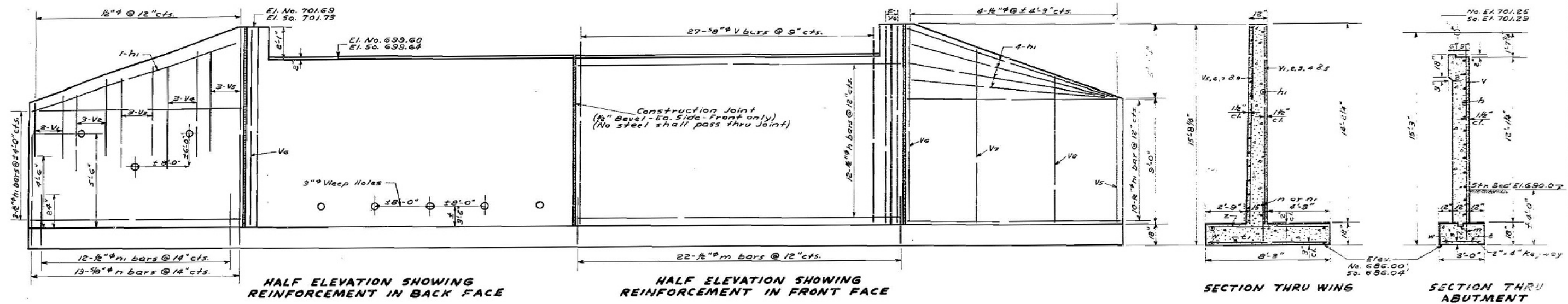
DESIGNED: *James E. Taylor*
CHECKED: *James J. Murray*
DRAWN: *W. T. Sauseman*
CHECKED: *James J. Murray*
EXAMINED: *W. J. Rued*
PASSED: *W. J. Rued*
APPROVED: *W. J. Rued*
7-11-50

Excavation for structures added 2-21-52 H.P. 62



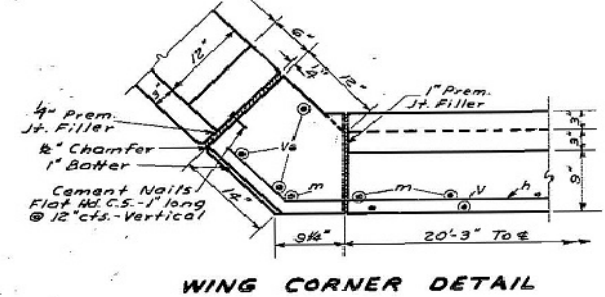
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	1770	DATE	10 9	SHEET NO.	2
SHEET NO. 2		TOTAL SHEETS 10		SHEETS 2	
PROJECT F-2(22)					



BILL OF MATERIAL - SUB.

Bar	No.	Size	Length	Shape
V	109	5/8" #	13'-0"	
V1	8	1/2" #	5'-0"	
V2	12	1/2" #	6'-0"	
V3	12	1/2" #	7'-0"	
V4	12	1/2" #	8'-3"	
V5	16	1/2" #	9'-3"	
V6	16	1/2" #	13'-9"	
V7	4	1/2" #	12'-9"	
V8	4	1/2" #	10'-9"	
h	48	1/2" #	21'-9"	
h1	72	1/2" #	13'-6"	
m	88	1/2" #	2'-6"	
n	52	5/8" #	6'-9"	
n1	48	1/2" #	3'-0"	
t	88	1/2" #	2'-9"	
t1	56	5/8" #	8'-0"	
w	8	1/2" #	2'-0"	
w1	24	1/2" #	13'-9"	
z	92	5/8" #	8'-0"	
Class K Concrete				cu.yds. 107.8
Reinforcement Bars				lbs. 5670



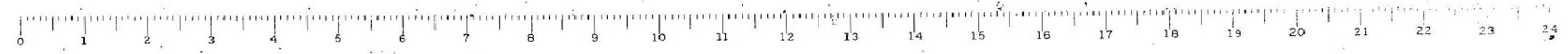
DESIGNED *Candace Taylor*
 CHECKED *James G. Manning*
 DRAWN *C. G. Sausaman*
 CHECKED *James G. Manning*

EXAMINED *[Signature]*
 PASSED *[Signature]*
 APPROVED *C. M. Hathaway*
 CHIEF HIGHWAY ENGINEER

Revised - 4-18-52 Copper Seal out

FOR INFORMATION ONLY
STRUCTURE NUMBER 038-0165 (EXISTING)

PROJECT F-2(22)
F.A. RT. 1 SEC. 17-R-B
IROQUOIS COUNTY
STA. 193+00

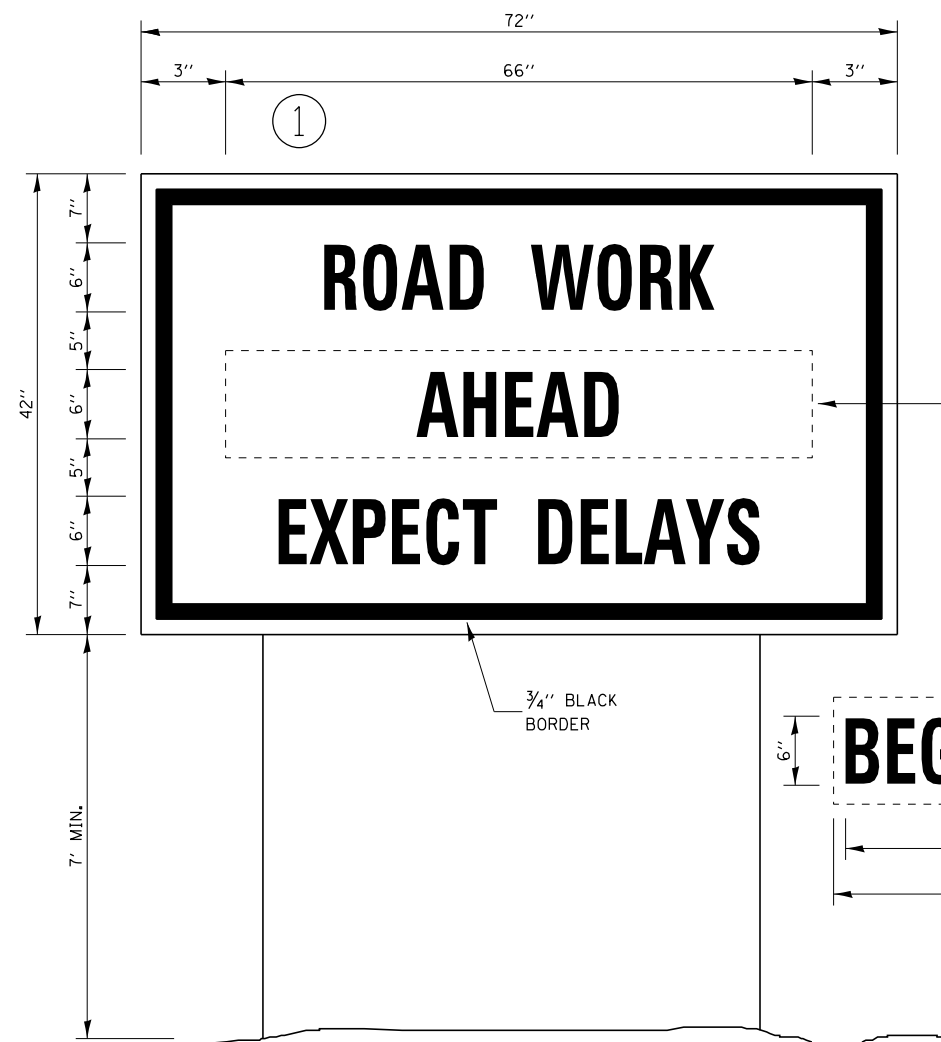


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PLOT DATE = #DATE#	CHECKED - OAO	REVISED -
	DATE - 01-25-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
S.N. 038-2023
SHEET NO. 10 OF 10 SHEETS

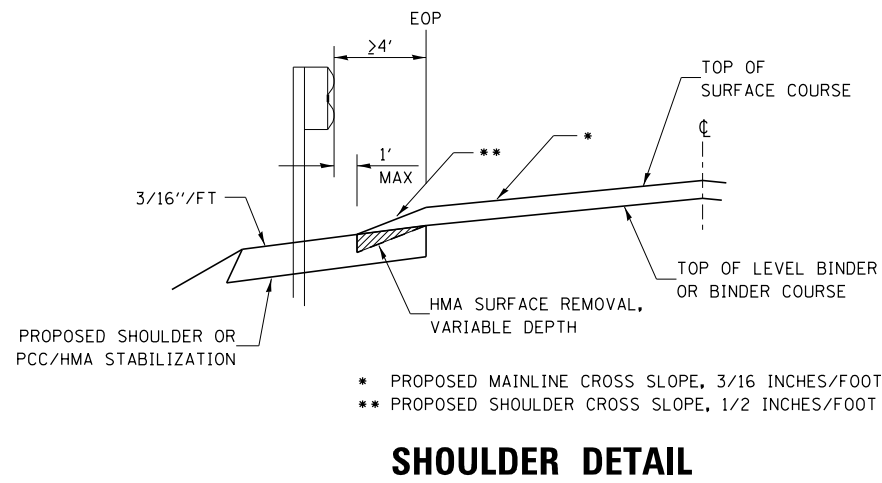
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	(17R-BR-1)	IROQUOIS	34	26
				CONTRACT NO. 66879
ILLINOIS FED. AID PROJECT				



TEMPORARY INFORMATION SIGNING

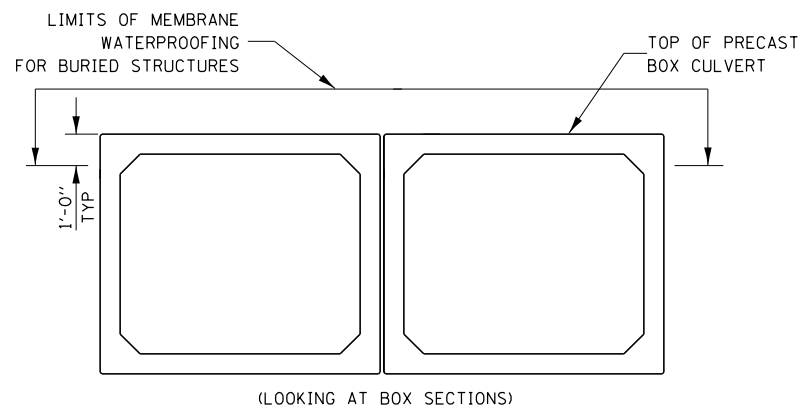
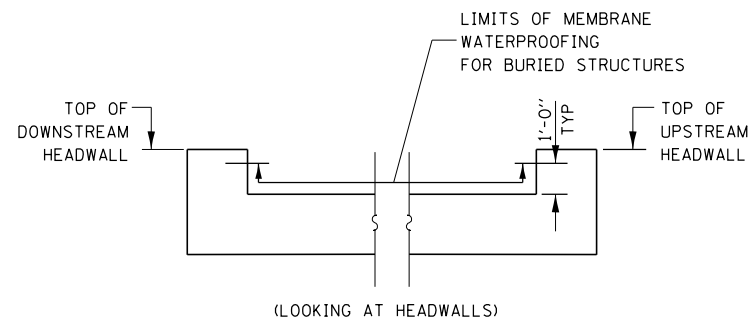
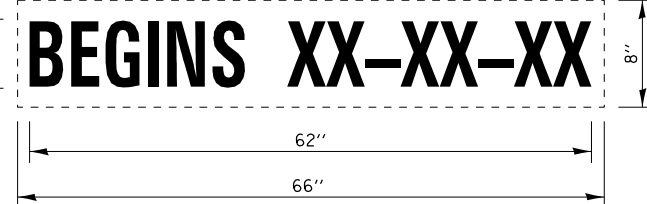
NOTES:

1. USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.



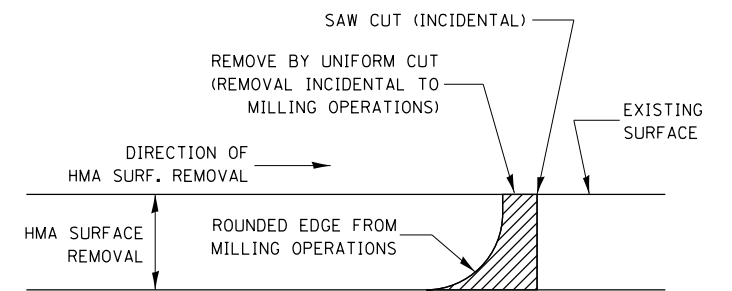
SHOULDER DETAIL

USE APPROPRIATE MONTH AND DATE FOR CONTRACT

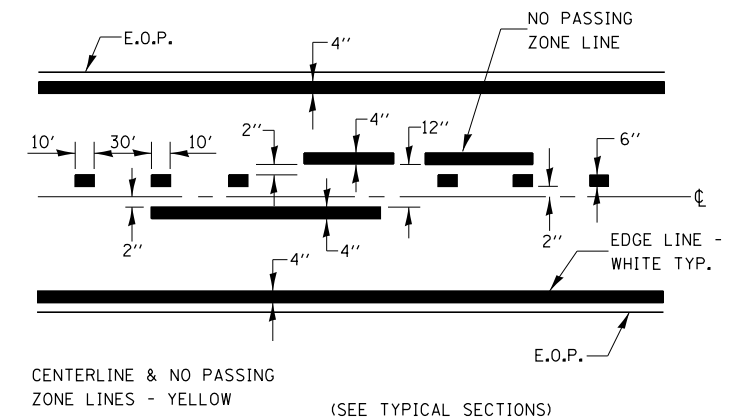
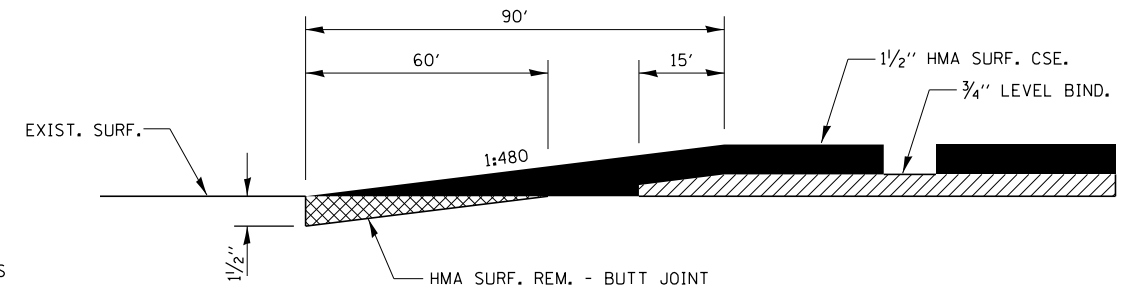


MEMBRANE WATERPROOFING FOR BURIED STRUCTURES

NOTE: WATERPROOFING MEMBRANE FOR CULVERTS SHALL COVER TOP OF THE TOP SLAB, TOP ONE FOOT OF SIDE WALLS, AND 6 INCHES UP INSIDE FACE OF THE HEADWALLS.



HMA DETAIL AT BUTT JOINTS



PAVEMENT MARKING

MODEL: 66879-02-075
FILE NAME: P:\MILL\04E\BID\NTEC\Illinois.gov\FWD\DOT\Documents\DOT Office\Detail\3\Project\0366879\CADD\Drawings\Changes to Consult\Plans\0366879-02-detail.dgn

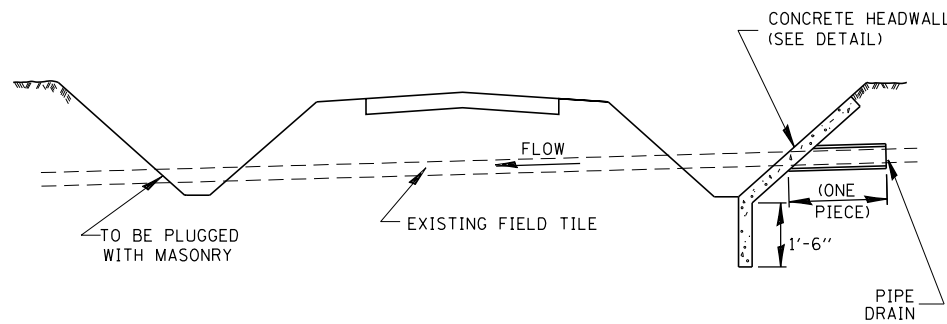
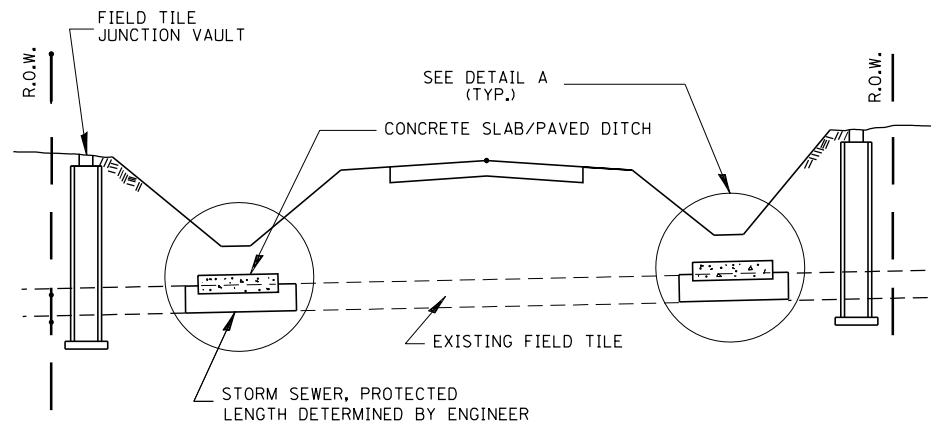
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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

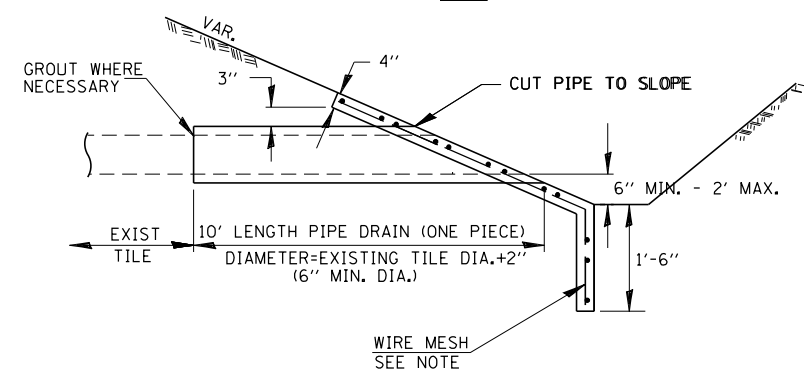
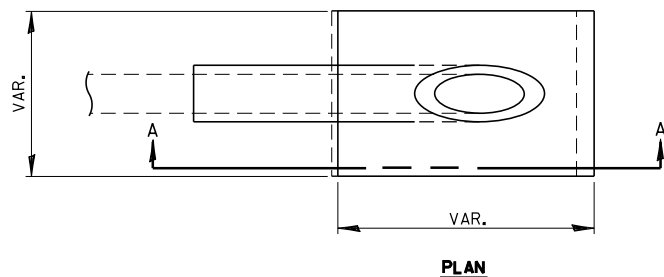
DETAIL SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	27
CONTRACT NO. 66879				
ILLINOIS FED. AID PROJECT				

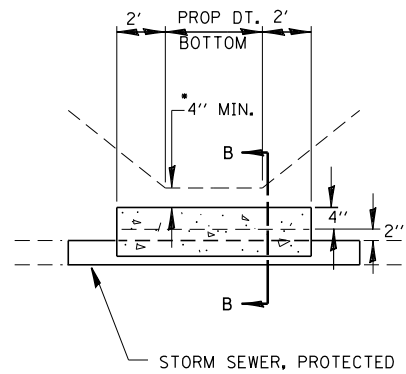


FIELD TILE REPLACEMENT



SECTION A-A

CLASS SI CONCRETE HEADWALLS



DETAIL A

NO SCALE

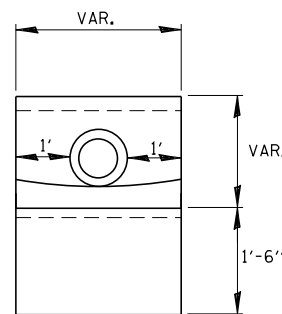
* IF A 4" COVER CAN NOT BE PROVIDED A PAVED DITCH SHALL BE CONSTRUCTED AS SHOWN IN DETAIL C.

NOTES

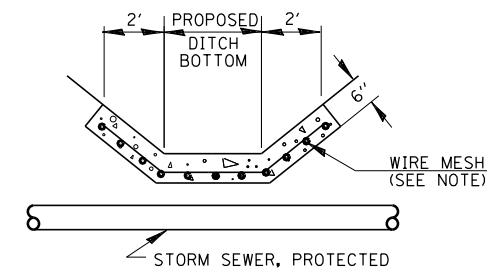
1. WIDTH OF CONCRETE SLAB SHALL BE THE SAME AS THE TRENCH WIDTH IN ACCORDANCE WITH SECTION 550 OF THE STD. SPECIFICATIONS, OR 3' MIN.
2. CONCRETE FOR SLAB, HEADWALL AND PAVED DITCH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "MISCELLANEOUS CONCRETE."
3. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.

NOTES

1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ. FT.

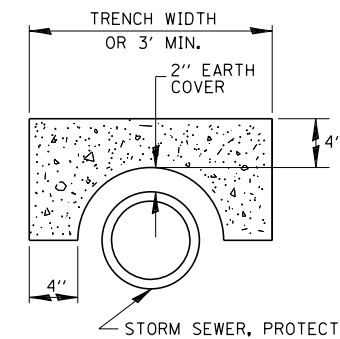


END VIEW

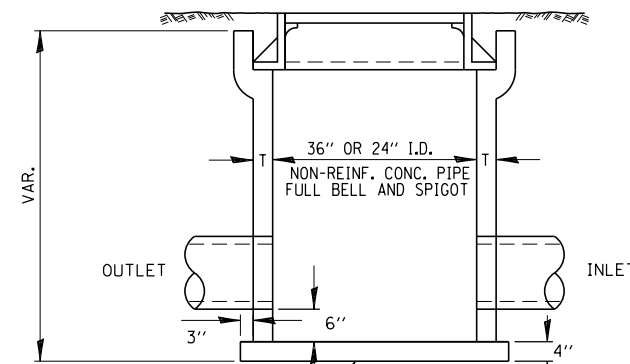


DETAIL C

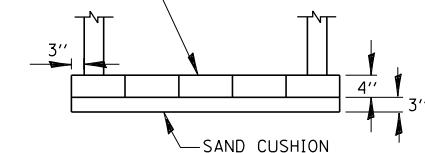
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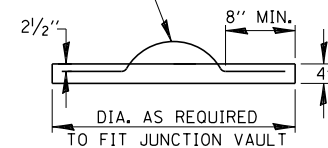
SECTION B-B



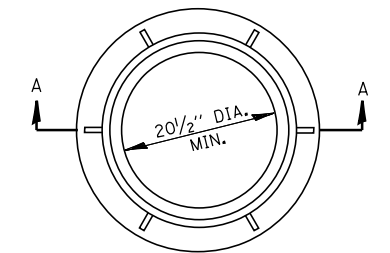
CLASS SI CONCRETE OR PRECAST REINFORCED CONCRETE SLABS NOT LESS THAN 12" WIDE



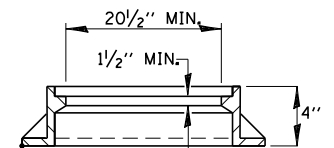
1 NO. 4 BAR LIFT LOOP



FIELD TILE JUNCTION VAULT



± 145#



SECTION A-A

ALTERNATE MATERIALS FOR WALLS	T
PRECAST REINFORCED CONCRETE RISERS	4"
CONCRETE MASONRY UNIT	5"
MONOLITHIC CONCRETE	6"
BUILDING BRICK, GRADE SW FROM CLAY OR SHALE	8"
CONCRETE BUILDING BRICK, GRADE A	8"

NOTES

1. THE CONTRACT UNIT PRICE FOR FIELD TILE JUNCTION VAULT SHALL INCLUDE THE COST OF FURNISHING AND PLACING THE FRAME AND GRATE OR PRECAST CONCRETE LID AND WHEN REQUIRED, THE SAND CUSHION.
2. ALL FIELD TILE JUNCTION VAULTS SHALL BE 2'-0" IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.

MODEL: 66879-01-0175
FILE NAME: P:\PROJECTS\66879\CADD\DATA\CAD\REVISED\CHANGES TO CONSULT\PIBAS\0366879-01-0175-DETAILS.dgn

USER NAME = corcoranlm	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/28/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

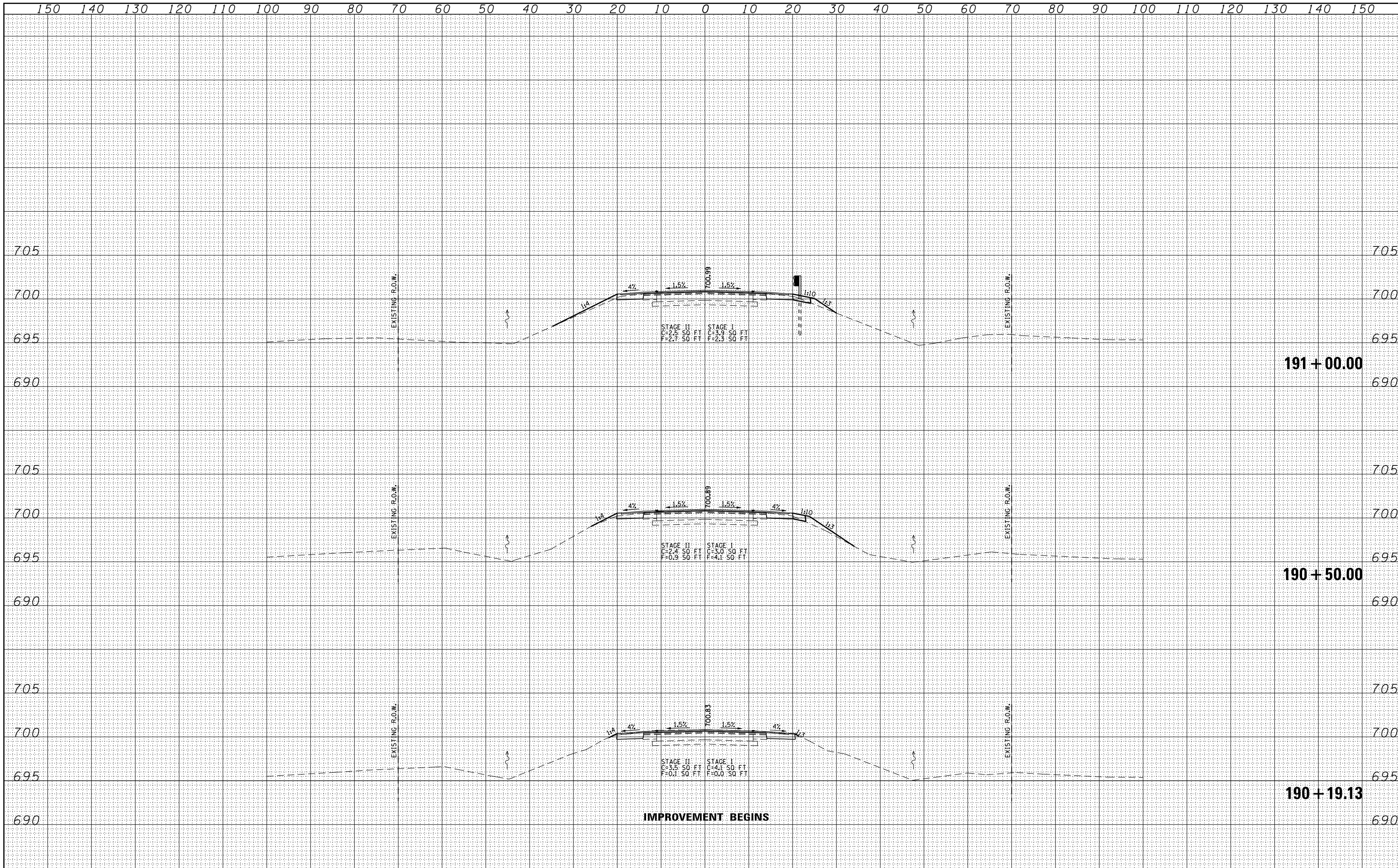
DETAIL SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	28
				CONTRACT NO. 66879
ILLINOIS FED. AID PROJECT				

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

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



USER NAME :	DESIGNED - CMF	REVISED -
	DRAWN - EJR	REVISED -
PLOT SCALE :	CHECKED - TMM	REVISED -
PLOT DATE :	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

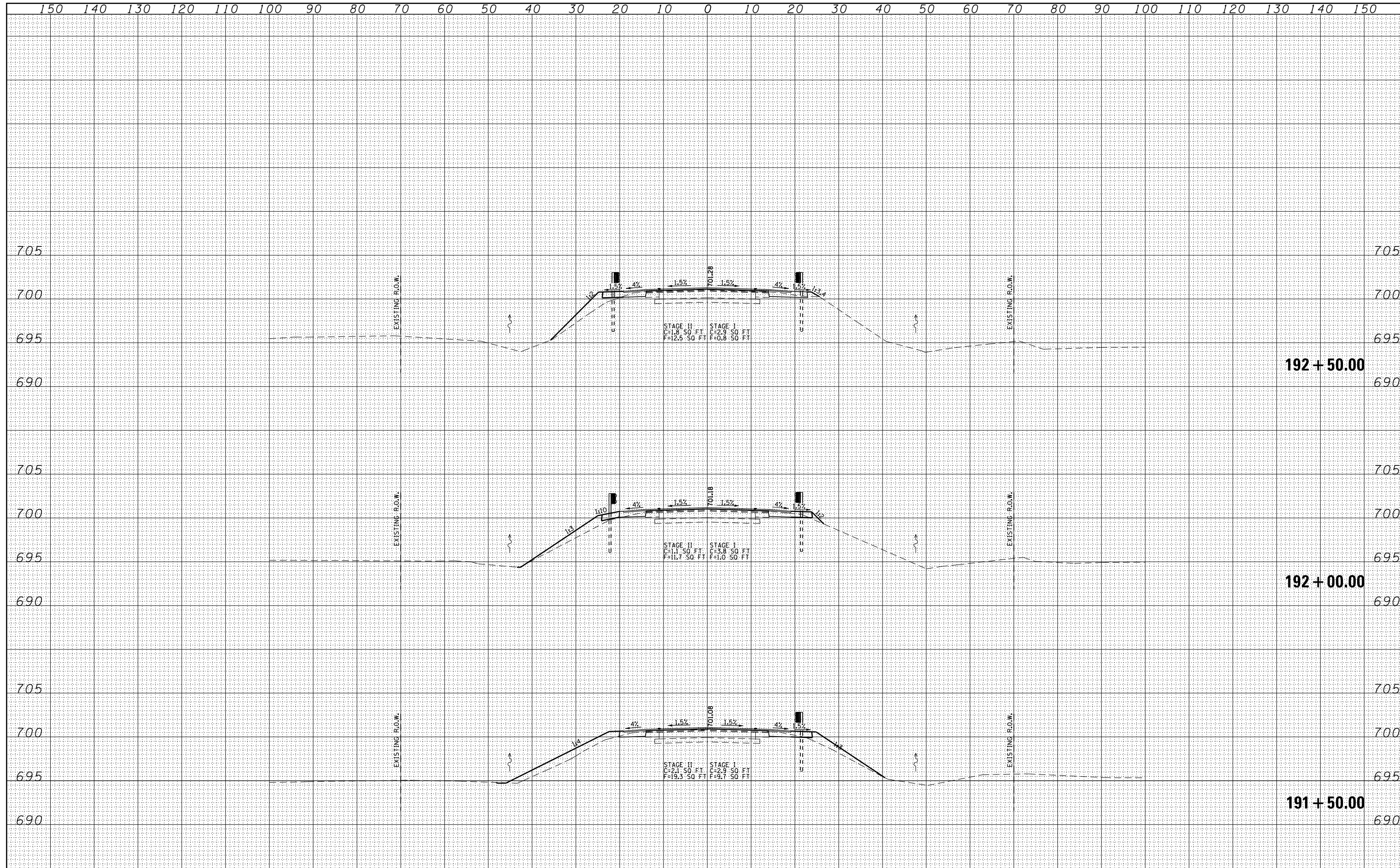
SCALE: V 1"=5' H 1"=10' SHEET NO. 1 OF 6 SHEETS STA. 190+19.13 TO STA. 191+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	29
CONTRACT NO. 66879				

ILLINOIS FED. AID PROJECT

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

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



USER NAME -	DESIGNED - CMF	REVISED -
	DRAWN - EJR	REVISED -
PLOT SCALE -	CHECKED - TMM	REVISED -
PLOT DATE	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

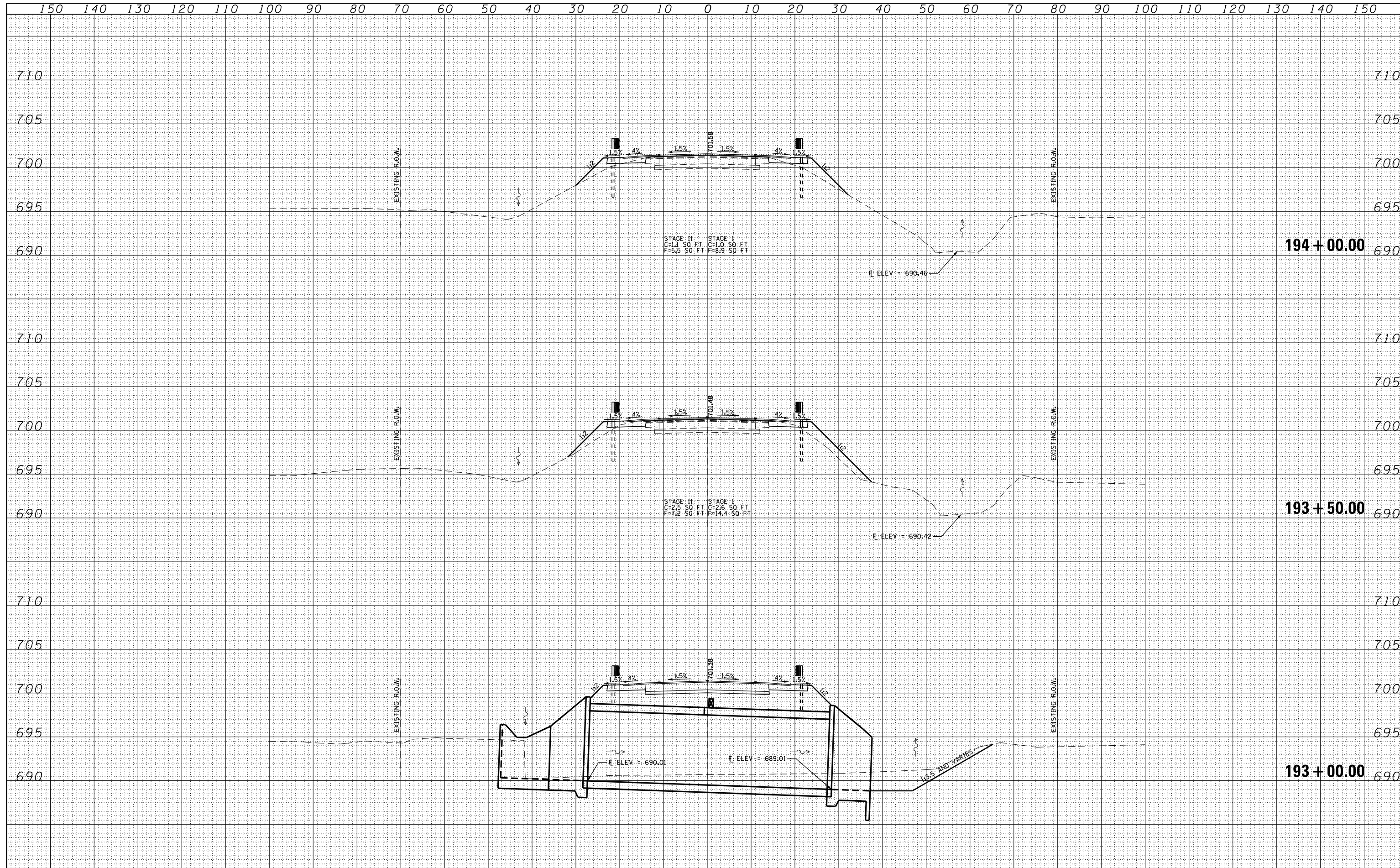
SCALE: V 1"=5' H 1"=10' SHEET NO. 2 OF 6 SHEETS STA. 191+50.00 TO STA. 192+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	30
CONTRACT NO. 66879				

ILLINOIS FED. AID PROJECT

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

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



USER NAME -	DESIGNED - CMF	REVISED -
	DRAWN - EJR	REVISED -
PLOT SCALE -	CHECKED - TMM	REVISED -
PLOT DATE	DATE -	REVISED -

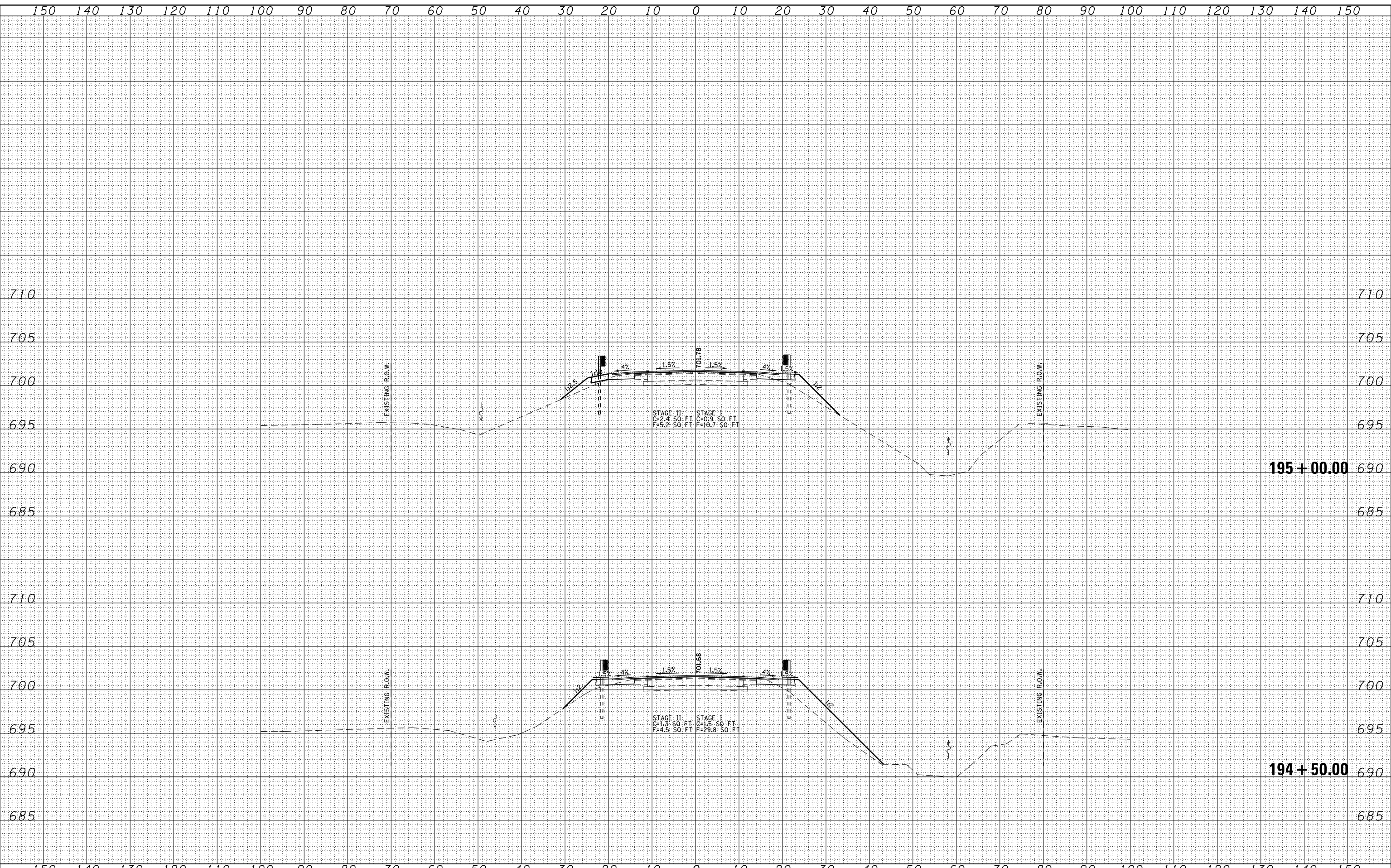
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: V 1"=5' H 1"=10' SHEET NO. 3 OF 6 SHEETS STA. 193+00.00 TO STA. 194+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	31
CONTRACT NO. 66879				

ILLINOIS FED. AID PROJECT



BY	DATE

BY	DATE

USER NAME -	DESIGNED - CMF	REVISED -
	DRAWN - EJR	REVISED -
PLOT SCALE -	CHECKED - IMM	REVISED -
PLOT DATE	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

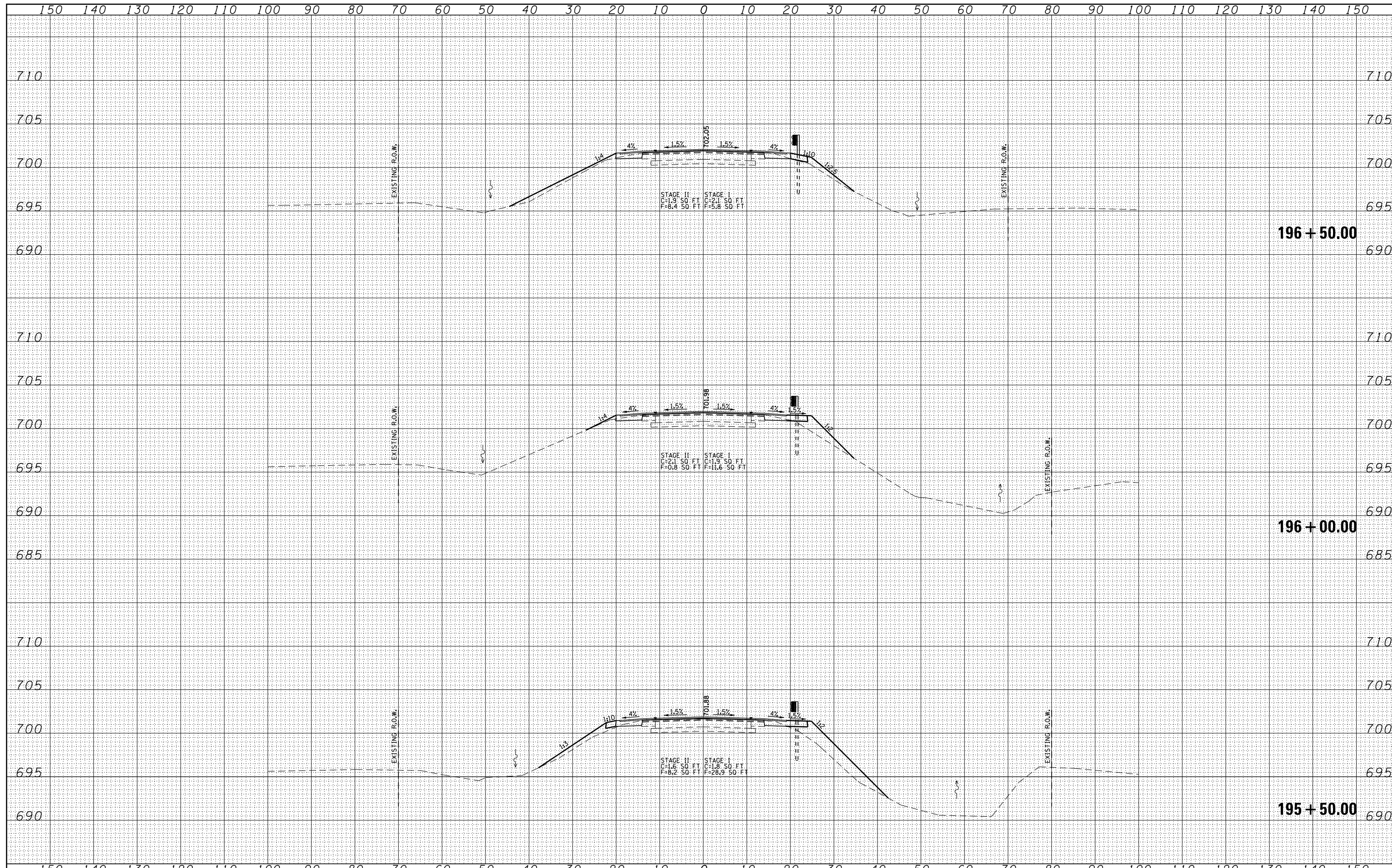
SCALE: V 1"=5' H 1"=10' SHEET NO. 4 OF 6 SHEETS STA. 194+50.00 TO STA. 195+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	32
CONTRACT NO. 66879				

ILLINOIS FED. AID PROJECT

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

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



USER NAME -	DESIGNED - CMF	REVISED -
	DRAWN - EJR	REVISED -
PLOT SCALE -	CHECKED - TMM	REVISED -
PLOT DATE	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS

SCALE: V 1"=5' H 1"=10' SHEET NO. 5 OF 6 SHEETS STA. 195+50.00 TO STA. 196+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	17R-BR-1	IROQUOIS	34	33
CONTRACT NO. 66879				

DATE	BY
NO.	AREAS CHECKED
NO.	AREAS CHECKED

DATE	BY
NO.	AREAS CHECKED
NO.	AREAS CHECKED

