

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 375	13-00175-00-DR	STARK	24	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 89687	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

**PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM – RURAL
EMERGENCY RELIEF PROGRAM**

**PROJECT ER-0375(103)
SECTION 13-00175-00-DR
STARK COUNTY
F.A.S. 375 / C.H. 11 / SNAREVILLE ROAD
PROPOSED STRUCTURE NO. 088-3511
C-94-035-14**

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	SCHEDULE OF QUANTITIES AND DETAILS
4.	TYPICAL CROSS SECTIONS
5.	PLAN AND PROFILE
6-7.	CULVERT PLANS
8.	BORINGS
9-24.	STATION CROSS SECTIONS

HIGHWAY STANDARDS:

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-03	NAME PLATE FOR BRIDGES
601101-01	CONCRETE HEADWALLS FOR PIPE DRAINS
630001-10	STEEL PLATE BEAM GUARDRAIL
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701901-04	TRAFFIC CONTROL DEVICES
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITIES

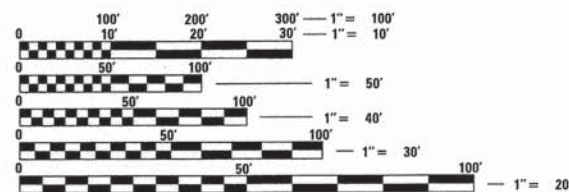
AMEREN ENGINEERING / CONSTRUCTION
8420 NORTH UNIVERSITY
PEORIA, IL 61615

FRONTIER COMMUNICATIONS
104 MULBERRY
NORMAL, IL 61761

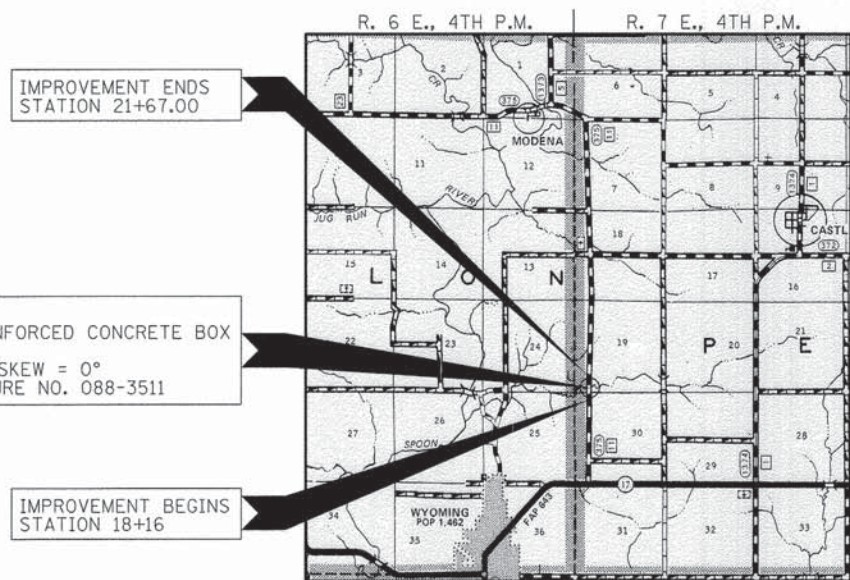
MEDIACOM
409 MASSEY LANE
JACKSONVILLE, IL 62650



FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR
DESIGN SPEED: 40 MPH
DESIGN TRAFFIC: 400 ADT (2030)



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.



LOCATION MAP

APPROXIMATE SCALE: 0 1 MILE
NET LENGTH OF SECTION = 351 FEET = 0.066 MILES



ILLINOIS DEPARTMENT OF TRANSPORTATION

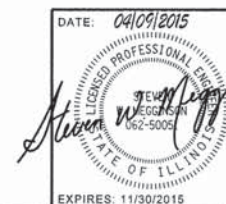
APPROVED April 10 2015
Mark A. Otter
COUNTY ENGINEER

PASSED April 10 2015
Jim D. Jones
DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review
April 14 2015
Steve A. Jones
DEPUTY DIRECTOR OF HIGHWAYS
REGION THREE ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CATALOG NO. 035046-00
CONTRACT NO. 89687**

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



DATE: 04/09/2015

HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS • STRUCTURAL ENGINEERS • LAND SURVEYORS
HLR
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3400 www.hlrengineering.com
184.000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

EXPIRES: 11/30/2015

PROJECT NUMBER: 14.0110.130

DATE: 04/09/15

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION CODE 0008	
		UNIT	TOTAL
20100500	TREE REMOVAL, ACRES	ACRE	0.1
20200100	EARTH EXCAVATION	CU YD	590
20700110	POROUS GRANULAR EMBANKMENT	TON	1060
25100115	MULCH, METHOD 2	ACRE	0.4
25100630	EROSION CONTROL BLANKET	SQ YD	2,050
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	160
28100209	STONE RIPRAP, CLASS A5	TON	370
35101400	AGGREGATE BASE COURSE, TYPE B	TON	640
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	429
40300300	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	GALLON	987
40300500	COVER COAT AGGREGATE	TON	22
40300600	SEAL COAT AGGREGATE	TON	11
48101200	AGGREGATE SHOULDERS, TYPE B	TON	181
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	955
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	56,620
51500100	NAME PLATES	EACH	1
54003000	CONCRETE BOX CULVERTS	CU YD	250.3
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	3
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	96
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	300
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
67100100	MOBILIZATION	L SUM	1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
78200410	GUARDRAIL MARKERS, TYPE A	EACH	8
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
X2090210	POROUS GRANULAR BACKFILL, SPECIAL	CU YD	115
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.4
X2830495	AGGREGATE DITCH (SPECIAL)	TON	120

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2012", (HERE IN AFTER REFERRED TO AS THE STANDARD SPECIFICATIONS; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2015; 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 AND GRUBBING AND FENCE REMOVAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE REMOVAL OF THE EXISTING BITUMINOUS SURFACE WILL BE PAID FOR AS EARTH EXCAVATION. ALL BITUMINOUS MATERIAL SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. PROPER DISPOSAL OF BITUMINOUS MATERIAL SHALL BE 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 A STANDARD 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 FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES

STONE RIPRAP, CLASS A5	1.75 TON/CU YD
AGGREGATE BASE COURSE	2.05 TON/CU YD
BITUMINOUS MATERIALS (PRIME COAT)	0.50 GAL/SQ YD
BITUMINOUS MATERIALS (COVER COAT)	0.40 GAL/SQ YD
BITUMINOUS MATERIALS (SEAL COAT)	0.35 GAL/SQ YD
COVER AND SEAL COAT AGGREGATE	25 LB/SQ YD
POROUS GRANULAR EMBANKMENT	2.00 TON/CU YD
- 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) = 0.4 ACRES
- TEMPORARY SEEDING SHALL BE COMPLETED ON ALL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH CONSTRUCTION WILL BE STOPPED FOR A PERIOD OF MORE THAN 14 CALENDAR DAYS. QUANTITY OF TEMPORARY SEEDING IS BASED ON FOUR SEPARATE APPLICATIONS AT A RATE OF 100 POUNDS / ACRE.
- 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 TOPSOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.
- PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:


 - BDE FORM 2289 (CULTURAL AND NATURAL RESOURCES REVIEW OF BORROW AREAS)
 - BDE FORM 2290 (WASTE/USE AREA REVIEW)
 - A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
 - COLOR PHOTOGRAPHS DEPICTING THE USE AREA
 - BORROW AREA ENTRY AGREEMENT FORM - D4 P10101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE, THE REQUIRED ENVIRONMENTAL ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED

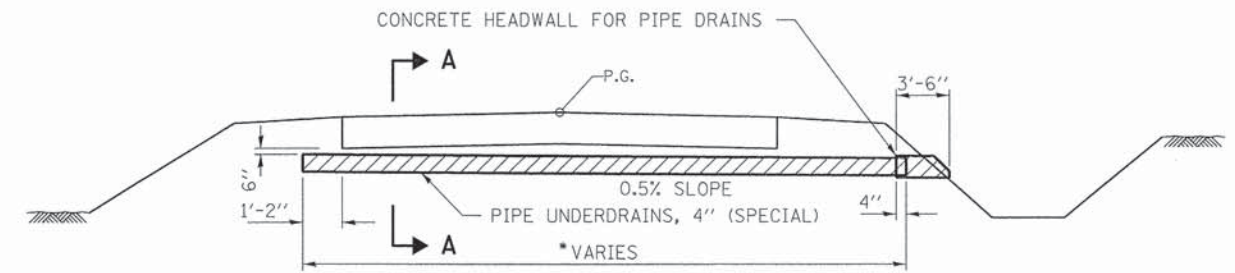
PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE
- EXCAVATION REQUIRED TO CONSTRUCT THE CULVERT SHALL BE PAID FOR AS STRUCTURE EXCAVATION MEASURED ABOVE THE TOP OF SLAB ELEVATION (687.0 +/-). EXCAVATION BELOW THIS ELEVATION SHALL BE INCLUDED IN THIS COST OF THE ITEM CONSTRUCTED. EXCAVATED MATERIAL MAY BE USED IN PROPOSED EMBANKMENT AS PER THE STANDARD SPECIFICATIONS.
- COMMITMENTS AS OF 4/6/2015

TREE REMOVAL IS PROHIBITED BETWEEN APRIL 1 TO SEPTEMBER 30. TREES WITHIN THE RIGHT-OF-WAY WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER.

TREES SHALL BE REPLACED PER IDOT DEPARTMENTAL POLICY D&E 18 AND WILL BE COMPLETED OUTSIDE THIS CONTRACT BY OTHERS.

FILE NAME = 140110-ahs-summary.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT	SUMMARY OF QUANTITIES AND GENERAL NOTES	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
 HAMPTON, LENZI AND RENWICK, INC. 2015 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184-00989	PLOT SCALE =	DRAWN - R.D.H.	REVISED -			375	13-00175-00-DR	STARK	24	2	
PLOT DATE = 4/9/2015	DATE - 04/09/15	CHECKED - S.W.M.	REVISED -			CONTRACT NO. 89687					
		DATE - 04/09/15	REVISED -			SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		[ILLINOIS] FED. AID PROJECT

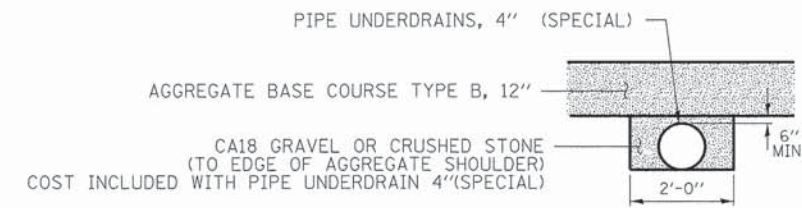
EARTHWORK SUMMARY						
LOCATION	EARTH EXCAVATION	SHRINKAGE FACTOR	% USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE(25%)	EMBANKMENT REQUIRED	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD			CU YD	CU YD	CU YD
CH 11 / SNAREVILLE ROAD						
STA 18+16 TO STA 21+67	587	25.00%	100.00%	440	1303	-863
EXCAVATION FROM CULVERT AND P.G.E (1220 CU YD)		25.00%	60.00%	549		549
STRUCTURE EXCAVATION (955 CU YD)		25.00%	100.00%	716		716
TOTAL	587			1705	1303	402
USE	590					405
				WASTE	405	CU.YD.



PROPOSED TYPICAL PIPE UNDERDRAIN CROSS SECTION

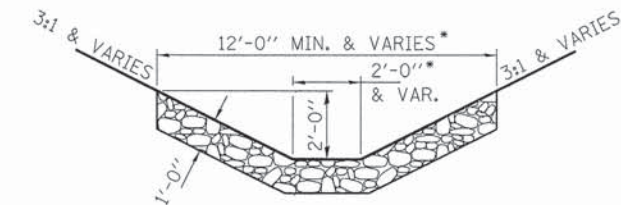
*SEE PIPE UNDERDRAIN SCHEDULE FOR DIMENSIONS

GUARDRAIL SCHEDULE				
LOCATION	STEEL PLATE BEAM GUARD RAIL TYPE A 6 FOOT POSTS	TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL MARKERS TYPE A
	63000001	63100167	78201000	78200410
CH 11 / SNAREVILLE ROAD	FOOT	EACH	EACH	EACH
LT. STA 18+95.00 TO LT. STA 21+32.50	137.5	2	2	4
RT. STA 18+50.00 TO RT. STA 21+12.50	162.5	2	2	4
TOTAL	300	4	4	8



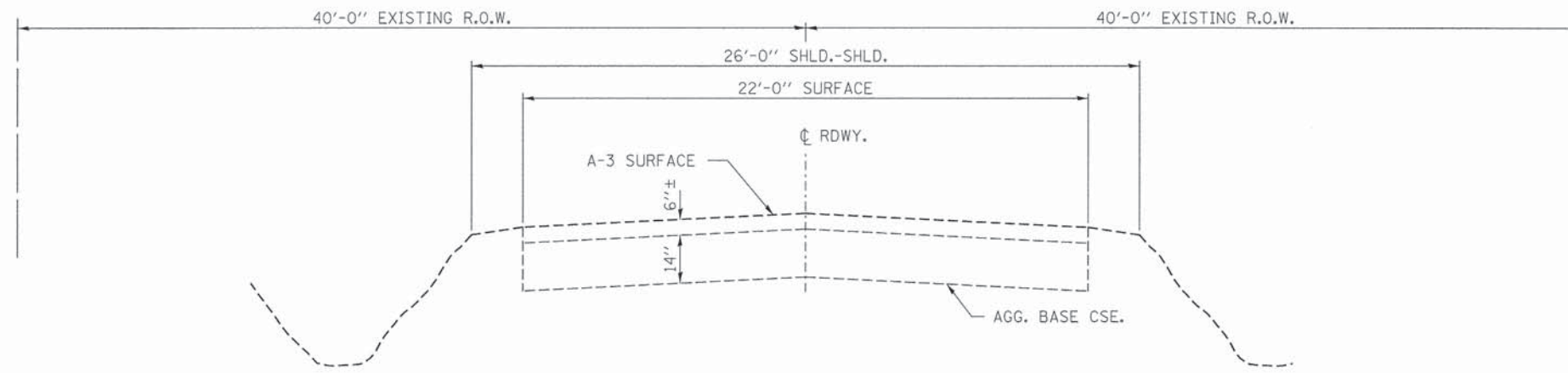
DETAIL A
PIPE UNDERDRAIN DETAIL

PIPE UNDERDRAINS SCHEDULE		
LOCATION	PIPE UNDERDRAINS 4" (SPECIAL)	CONCRETE HEADWALLS FOR PIPE DRAINS
	60108100	60100060
	FOOT	EACH
CH 11 / SNAREVILLE ROAD		
CL STA 19+25	32.9	1
CL STA 20+50	32.9	1
CL STA 21+60	30.2	1
TOTAL	96	3

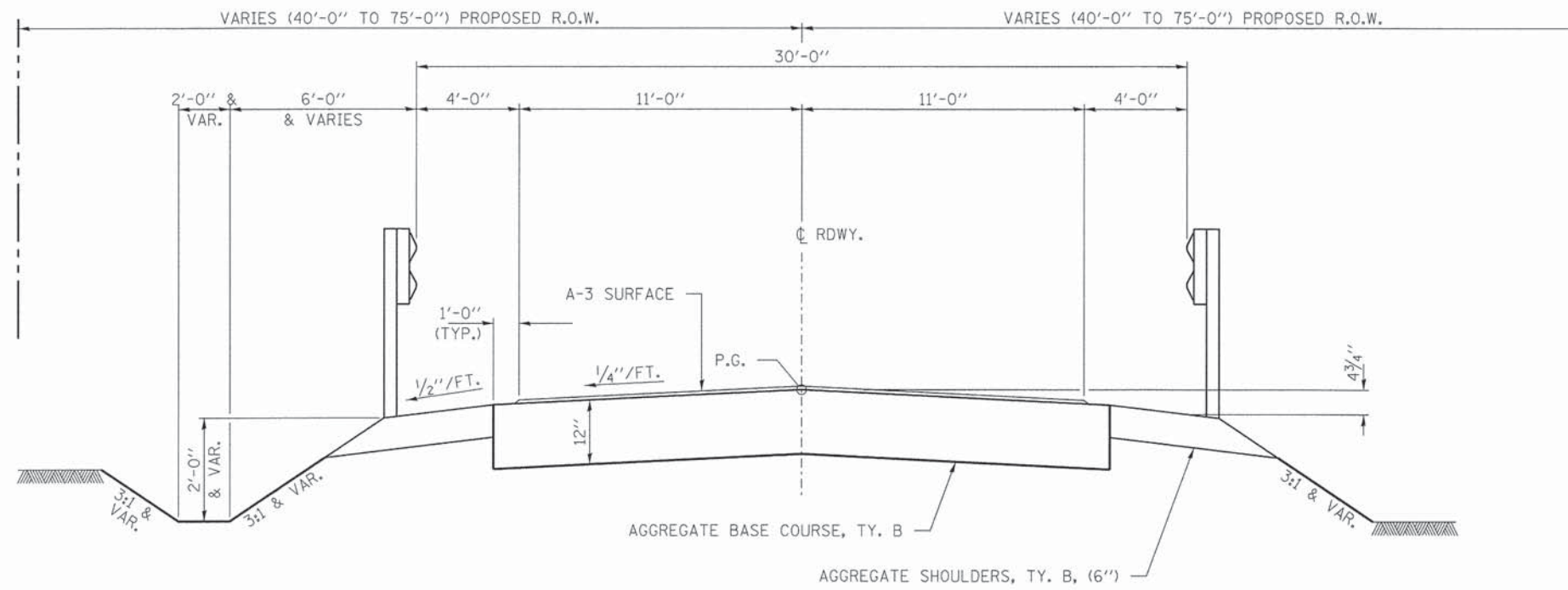


AGGREGATE DITCH (SPECIAL)

SEE SPECIAL PROVISIONS
*RT. STA. 19+00 TO 19+75
*LT. STA. 19+25 TO 19+75



EXISTING TYPICAL CROSS SECTION
STA. 18+00 TO 22+00

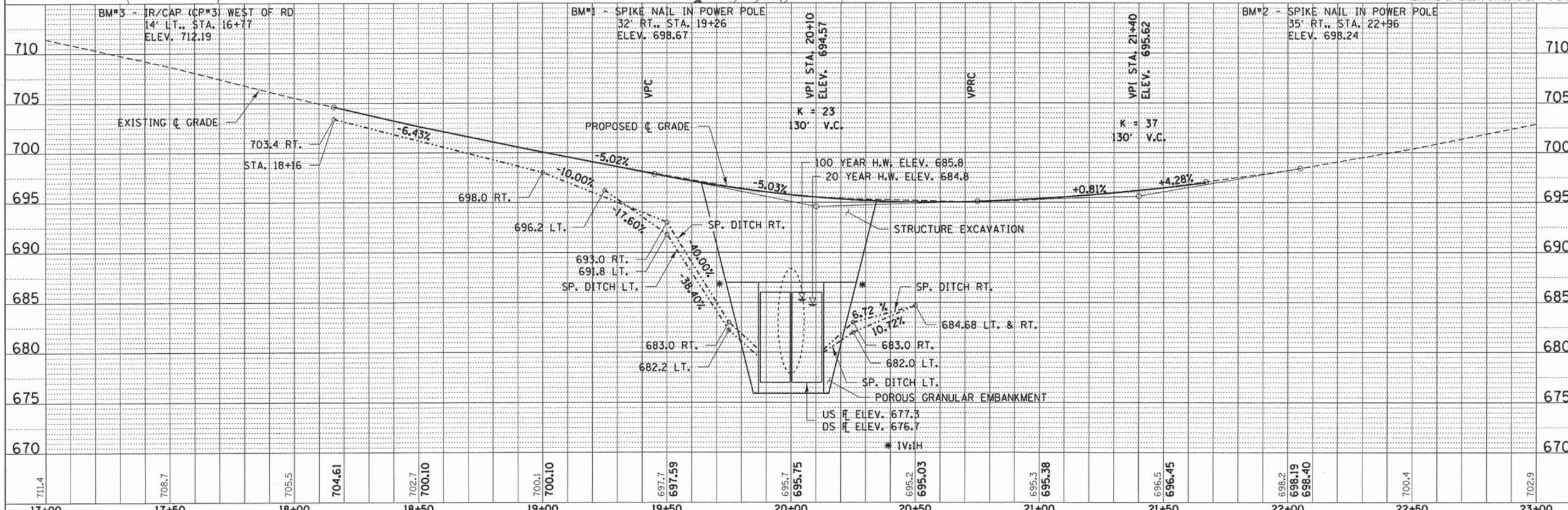
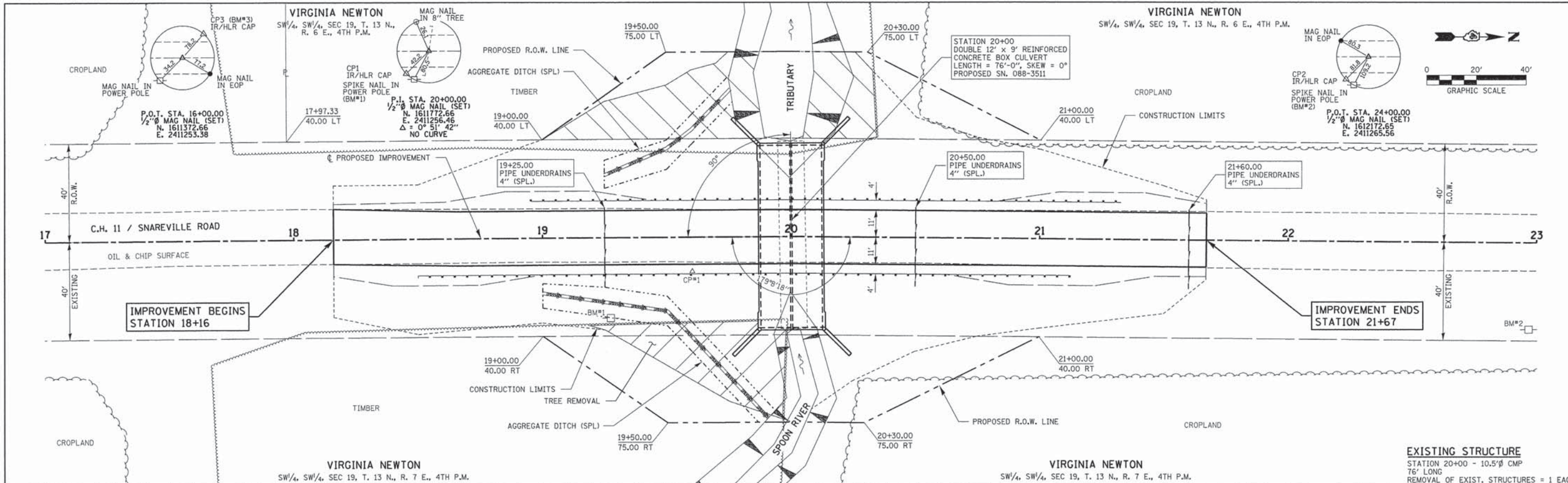


PROPOSED TYPICAL CROSS SECTION
STA. 18+16 TO 21+67

SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

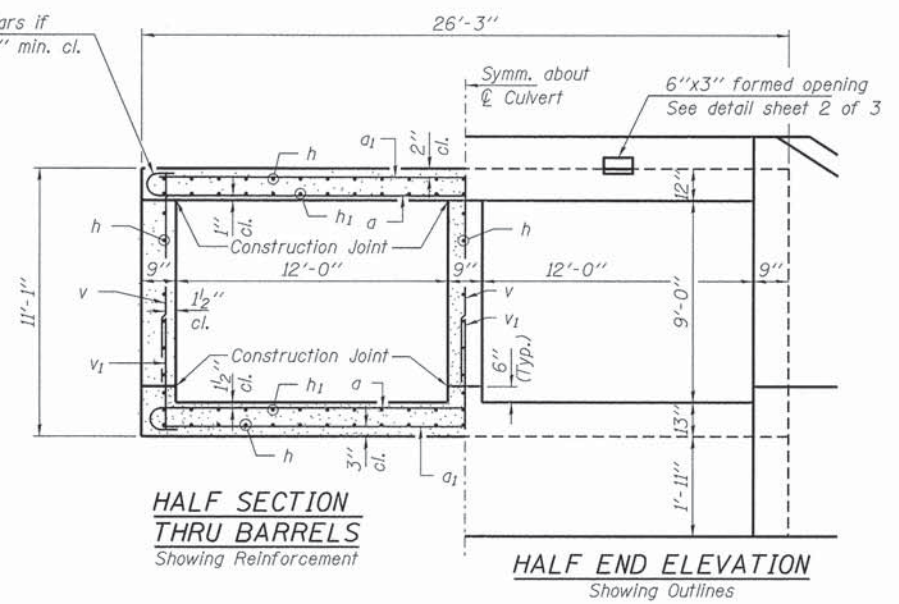
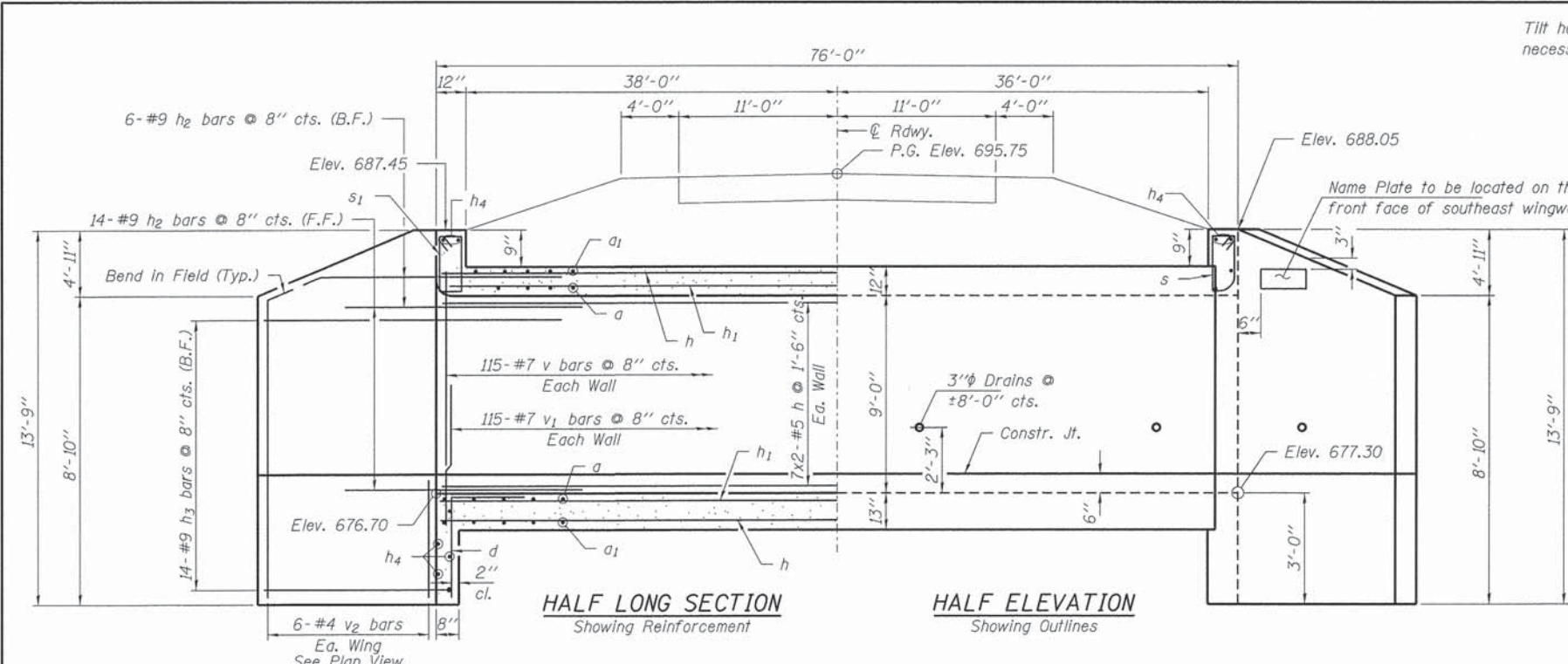
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HAMPTON, LENZINI AND RENWICK, INC. 3503 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009950		DRAWN - R.D.H.	REVISED -				375	13-00175-00-DR	STARK	24	4
PLOT SCALE =		CHECKED - S.W.M.	REVISED -		SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.		CONTRACT NO. 89687				
PLOT DATE = 4/9/2015		DATE - 04/09/15	REVISED -		ILLINOIS FED. AID PROJECT						



DATE	
BY	
REVISION	
PLANNED	
ALIGNED	
CHECKED	
NO.	
NOTE BOOK	
NO.	
FILE NAME	

DATE	
BY	
REVISION	
PLANNED	
ALIGNED	
CHECKED	
NO.	
NOTE BOOK	
NO.	
FILE NAME	

FILE NAME = 140110-ah-t-p&g.pdgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT	PLAN & PROFILE	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -			375	13-00175-00-DR	STARK	24	5	
3008 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -			CONTRACT NO. 89687					
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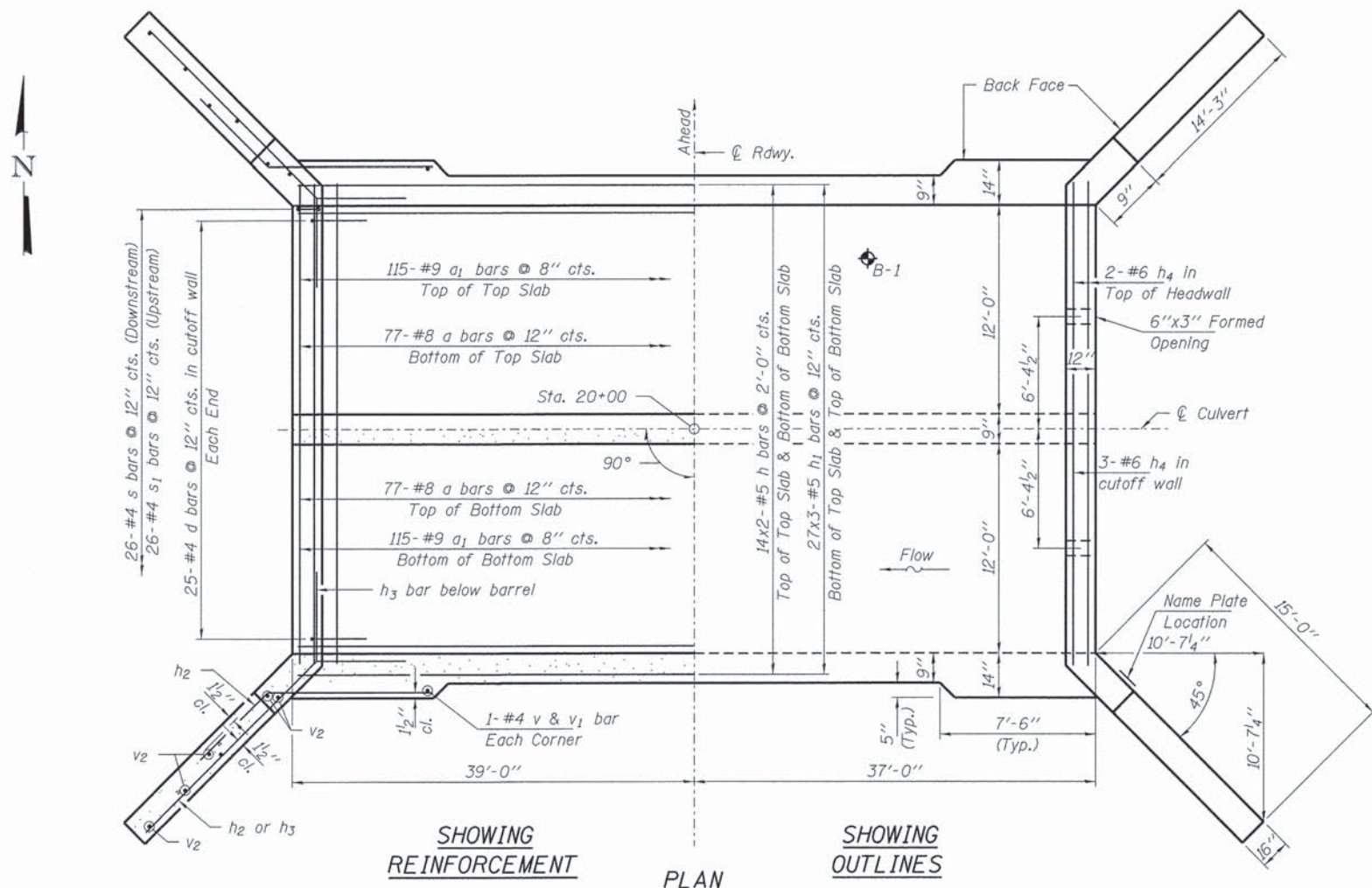


INDEX OF STRUCTURE SHEETS

1-2. Culvert Details
3. Borings

NOTES

Exposed edges shall be beveled $\frac{3}{4}$ ".
For backfilling and embankment, see Standard Specifications, except that Granular Backfill shall be placed as shown in backfill detail for the full length of the culvert.
Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.
It shall be the responsibility of the Contractor to divert flow during construction in order to keep construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and shall be included in the cost of Concrete Box Culverts.
All construction joints shall be bonded.
Precast concrete box culverts will not be allowed.
All bars shall be epoxy coated.



MIN. BAR LAP
#5 bars = 1'-8"
#7 bars = 2'-9"

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

LOADING HL-93

Design Specifications:
2012 AASHTO LRFD
with 2013 Interims.

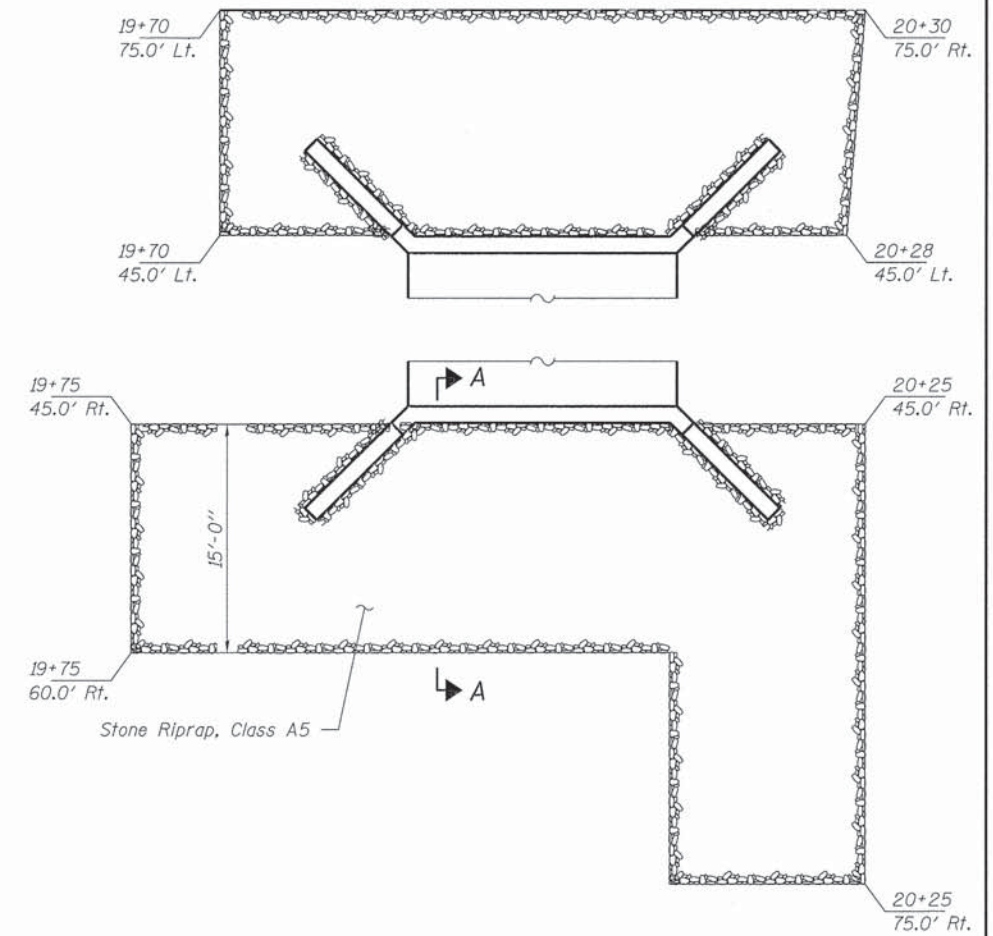
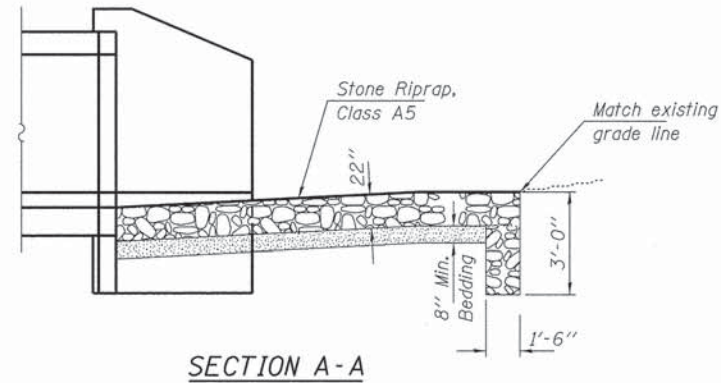
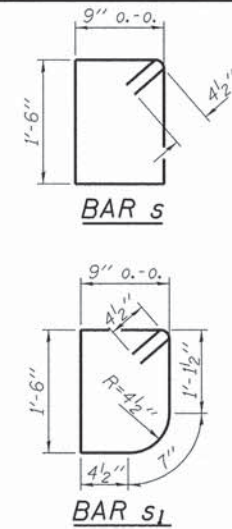
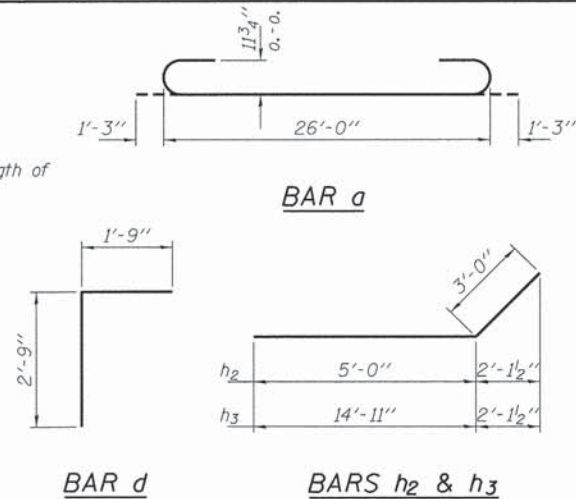
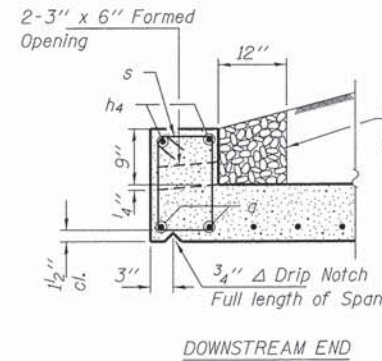
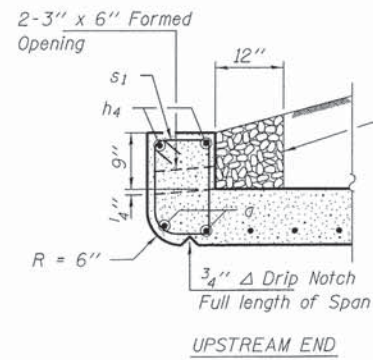
I certify that to the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Specifications."

Steven W. Megginson 04/09/2015
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064 Expires 11-30-2016

BILL OF MATERIAL

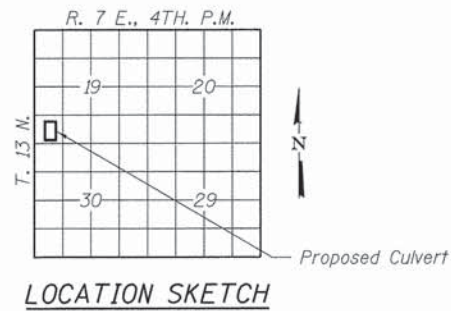
Bar	No.	Size	Length	Shape
a	154	#8	28'-6"	U
a ₁	230	#9	26'-0"	—
d	50	#4	4'-6"	L
h	98	#5	38'-9"	—
h ₁	162	#5	26'-4"	—
h ₂	80	#9	8'-0"	—
h ₃	56	#9	17'-11"	—
h ₄	10	#6	26'-0"	—
s	26	#4	5'-3"	U
s ₁	26	#4	5'-1"	U
v	349	#7	9'-3"	—
v ₁	349	#7	4'-3"	—
v ₂	24	#4	13'-6"	—

Structure Excavation	Cu. Yd.	995
Porous Granular Embankment	Ton	1,060
Stone Riprap, Class A5	Ton	370
Reinf. Bars, Epoxy Coated	Pounds	56,620
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	250.3
Porous Granular Backfill, Special	Cu. Yd.	128



BUILT 2011 BY
STARK COUNTY
SEC. 13-00175-00-DR
C.H. 11
STR. NO. 088-3511
LOADING HL-93

NAME PLATE
See Std. 515001

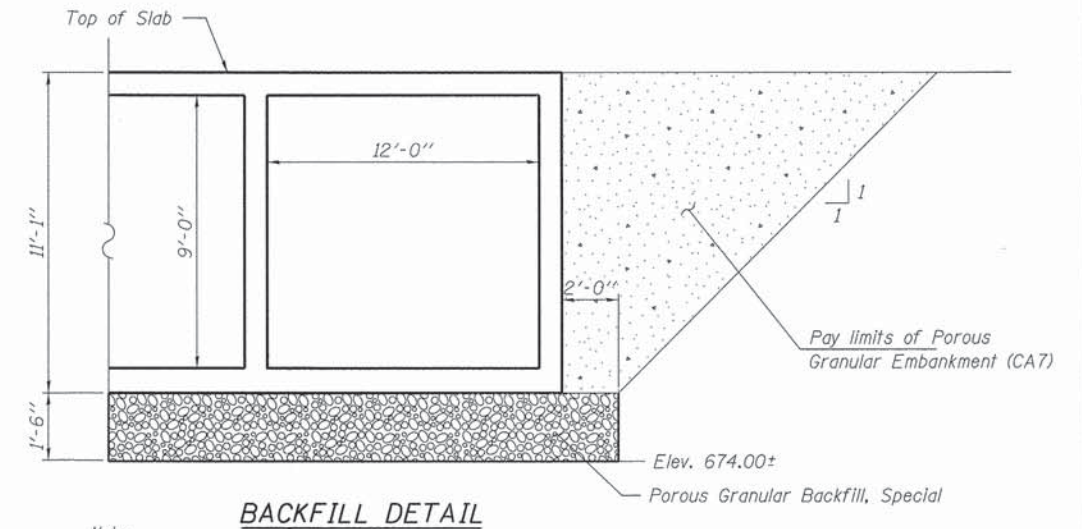


WATERWAY INFORMATION

Drainage Area = 2.8 Sq. Mi. Existing Low Grade Elev. 695.2 @ Sta. 20+50
Proposed Low Grade Elev. 695.0 @ Sta. 20+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.			Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	10	896	90	180	684.23	4.23	0.15	688.46	684.38		
Base	20	1130	90	190	684.80	6.13	0.34	690.93	685.14		
Existing Overtop	100	1720	90	220	685.83	9.04	0.95	694.87	686.78		
Max. Calc.	500	2360	90	220	686.62	9.24		695.86	686.62		
	500	2360	90	220	686.67	9.24	1.92	695.91	688.59		

10 Year Velocity through Existing Bridge = 10.0 fps 10 Year Velocity through Proposed Bridge = 5.0 fps



Note:
A 2.0' earth embankment cap shall be constructed at the ends of the downstream wingwalls. See Special Provisions.

FILE NAME = 148118-shr-culvert.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT	CULVERT DETAILS STRUCTURE NO. 088-3511	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3083 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -			375	13-00175-00-DR	STARK	24	7
ILLINOIS PROFESSIONAL DESIGN FIRM L3 / P.E. / S.E. CORP. 184.000959	PLOT SCALE =	DRAWN - R.D.H.	REVISED -			CONTRACT NO. 89687				
	PLOT DATE = 4/9/2015	CHECKED - S.W.M.	REVISED -			ILLINOIS FED. AID PROJECT				



Illinois Department of Transportation
Division of Highways
Whitney & Associates

SOIL BORING LOG

Page 1 of 2

Date 12/2/14

ROUTE TR11 DESCRIPTION Penn Township Road District LOGGED BY Fehl
SECTION 13-00175-00-BR LOCATION Stark County, SEC. 19, TWP. T13N, RNG. R7E, 4th PM,
Latitude , Longitude
COUNTY Stark DRILLING METHOD Hollow-Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	E	L	C	O
	P	O	S	I	Stream Bed Elev.	P	O	S	I
	T	W	Qu	S	Groundwater Elev.:	T	W	Qu	S
	H	S		T	First Encounter	H	S		T
					Upon Completion				
					After - Hrs.				
	(ft)	(/6")	(tsf)	(%)		(ft)	(/6")	(tsf)	(%)
BORING NO. <u>B-01</u>									
Station <u>10+08</u>									
Offset <u>8.0 ft Left</u>									
Ground Surface Elev. <u>695.50</u> ft									
<u>Oil And CHIPS (6.5")</u> 694.96					<u>Very Stiff, Gray And Brown CLAY</u>				
<u>Brown, CA-6 GRAVEL (14.0")</u> 694.33					<u>LOAM GLACIAL TILL (continued)</u>				
<u>Brown And Dark Brown SILTY CLAY LOAM With Some Fine-Grained Gravel And Trace of Cinders (Fill) DD = 95 PCF</u>	2				<u>DD = 117 PCF</u>	5			
<u>Medium, Gray And Light Brown SILTY CLAY LOAM (Probable Fill)</u>	3		0.9	21	<u>Hard, Gray And Gray-Brown CLAY LOAM GLACIAL TILL DD = 122 PCF</u>	8	3.0	14	
<u>Stiff, Gray And Brown Mottled Dark Brown SILTY CLAY LOAM (Probable Fill) DD = 94 PCF</u>	3		1.1	24	<u>DD = 124 PCF</u>	10	B		
<u>Stiff, Gray And Brown CLAY LOAM (Probable Fill) DD = 100 PCF</u>	4		1.4	23	<u>Very Stiff, Gray SILTY CLAY GLACIAL TILL DD = 118 PCF</u>	12	4.2	11	
<u>Stiff, Gray SILTY CLAY With Trace Of Organic Matter (Possible Fill) DD = 97 PCF</u>	4		1.1	22	<u>DD = 118 PCF</u>	18	B		
<u>Medium, Dark Gray SILTY CLAY LOAM With Some Organic Matter DD = 91 PCF</u>	2		0.7	26	<u>DD = 116 PCF</u>	5			
<u>DD = 93 PCF</u>	2		0.9	24	<u>Hard, Blue-Gray SILTY CLAY GLACIAL TILL</u>	7	2.5	15	
<u>Very Stiff, Gray And Brown CLAY LOAM GLACIAL TILL DD = 114 PCF</u>	3		2.7	16	<u>DD = 114 PCF</u>	9	B		
	9								

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)



Illinois Department of Transportation
Division of Highways
Whitney & Associates

SOIL BORING LOG

Page 2 of 2

Date 12/2/14

ROUTE TR11 DESCRIPTION Penn Township Road District LOGGED BY Fehl
SECTION 13-00175-00-BR LOCATION Stark County, SEC. 19, TWP. T13N, RNG. R7E, 4th PM,
Latitude , Longitude
COUNTY Stark DRILLING METHOD Hollow-Stem Auger HAMMER TYPE Automatic

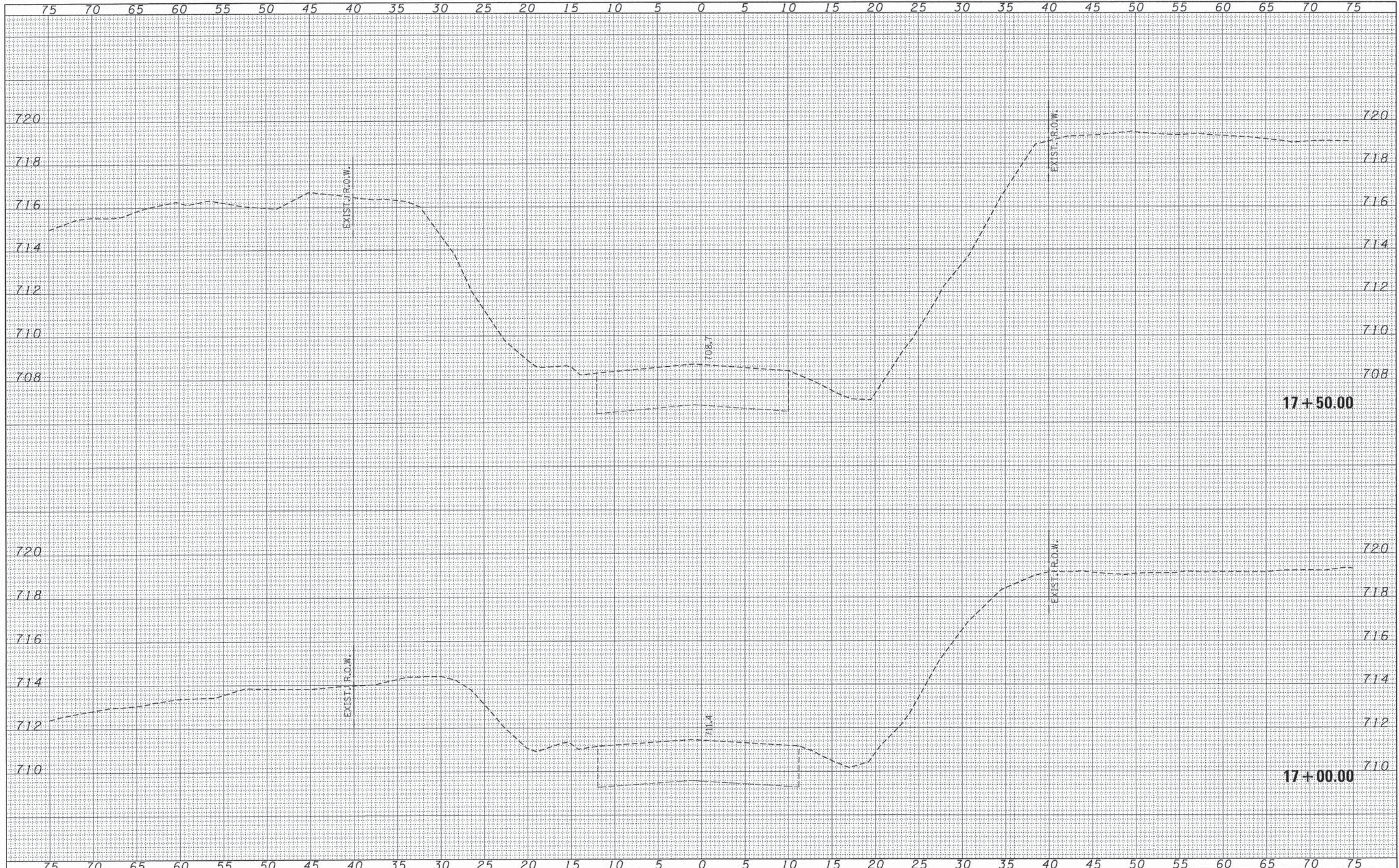
STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	E	L	C	O	ft	E	L	C	O
	P	O	S	I	Stream Bed Elev.	P	O	S	I
	T	W	Qu	S	Groundwater Elev.:	T	W	Qu	S
	H	S		T	First Encounter	H	S		T
					Upon Completion				
					After - Hrs.				
	(ft)	(/6")	(tsf)	(%)		(ft)	(/6")	(tsf)	(%)
BORING NO. <u>B-01</u>									
Station <u>10+08</u>									
Offset <u>8.0 ft Left</u>									
Ground Surface Elev. <u>695.50</u> ft									
<u>Hard, Blue-Gray SILTY CLAY GLACIAL TILL (continued) DD = 119 PCF</u>	8				<u>DD = 113 PCF</u>	5			
<u>Very Stiff, Gray SILTY CLAY GLACIAL TILL</u>	12	4.0	15		<u>DD = 114 PCF</u>	6	2.2	17	
<u>DD = 119 PCF</u>	13	B			<u>End of Boring</u>	9	B		
<u>DD = 113 PCF</u>	45								
<u>DD = 114 PCF</u>	4								
<u>DD = 114 PCF</u>	6	2.5	17						
<u>Ground Surface Elev. 644.50</u>	9	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)

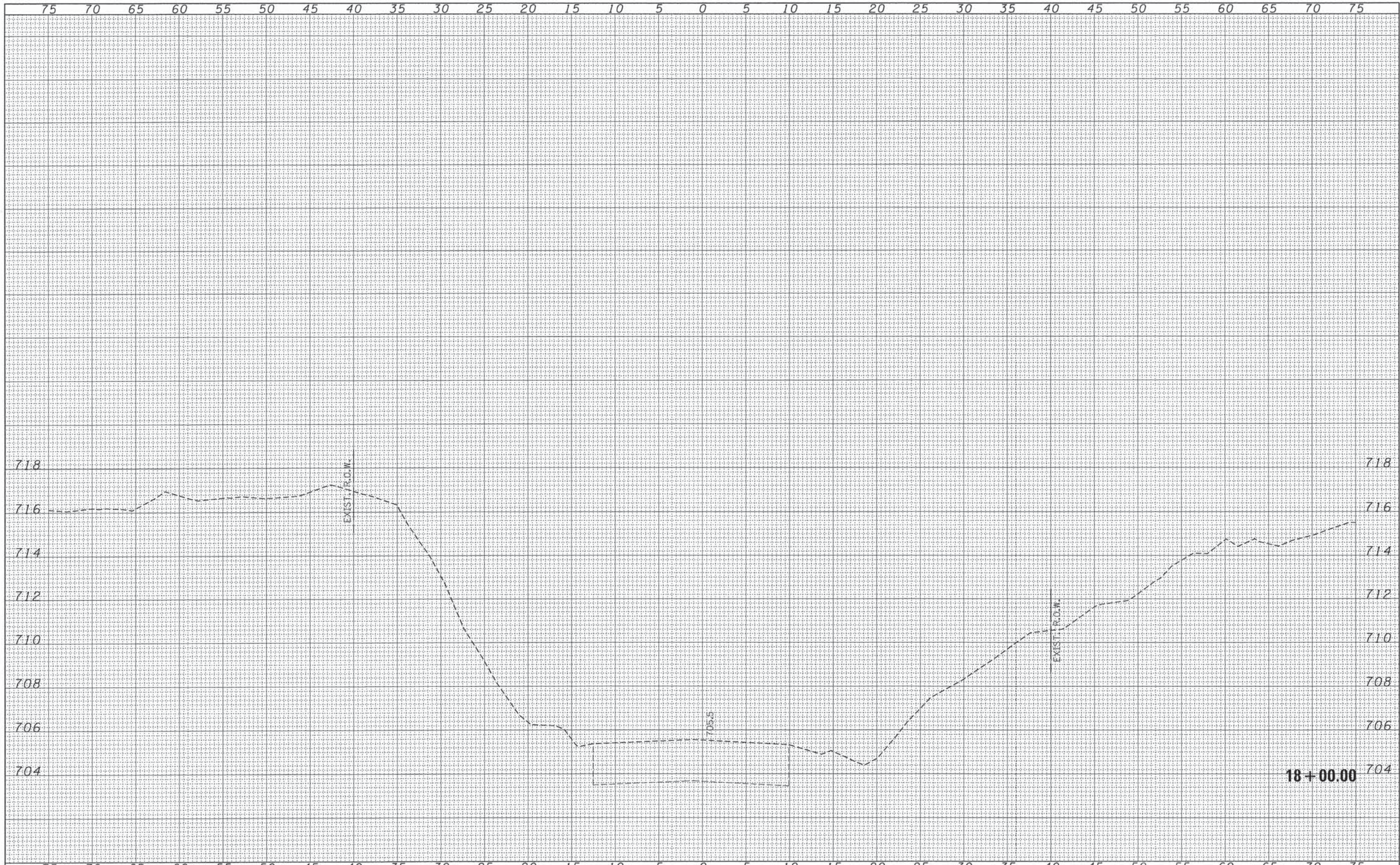
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 2088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000899	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		SCALE: 5Hx2V	SHEET NO. 1 OF 16 SHEETS	STA. 17+00.00 TO STA. 17+50.00	375	13-00175-00-DR	STARK	24
PLOT DATE = 4/9/2015	DATE - 04/09/15	CHECKED - S.W.M.	REVISED -							CONTRACT NO. 89687	
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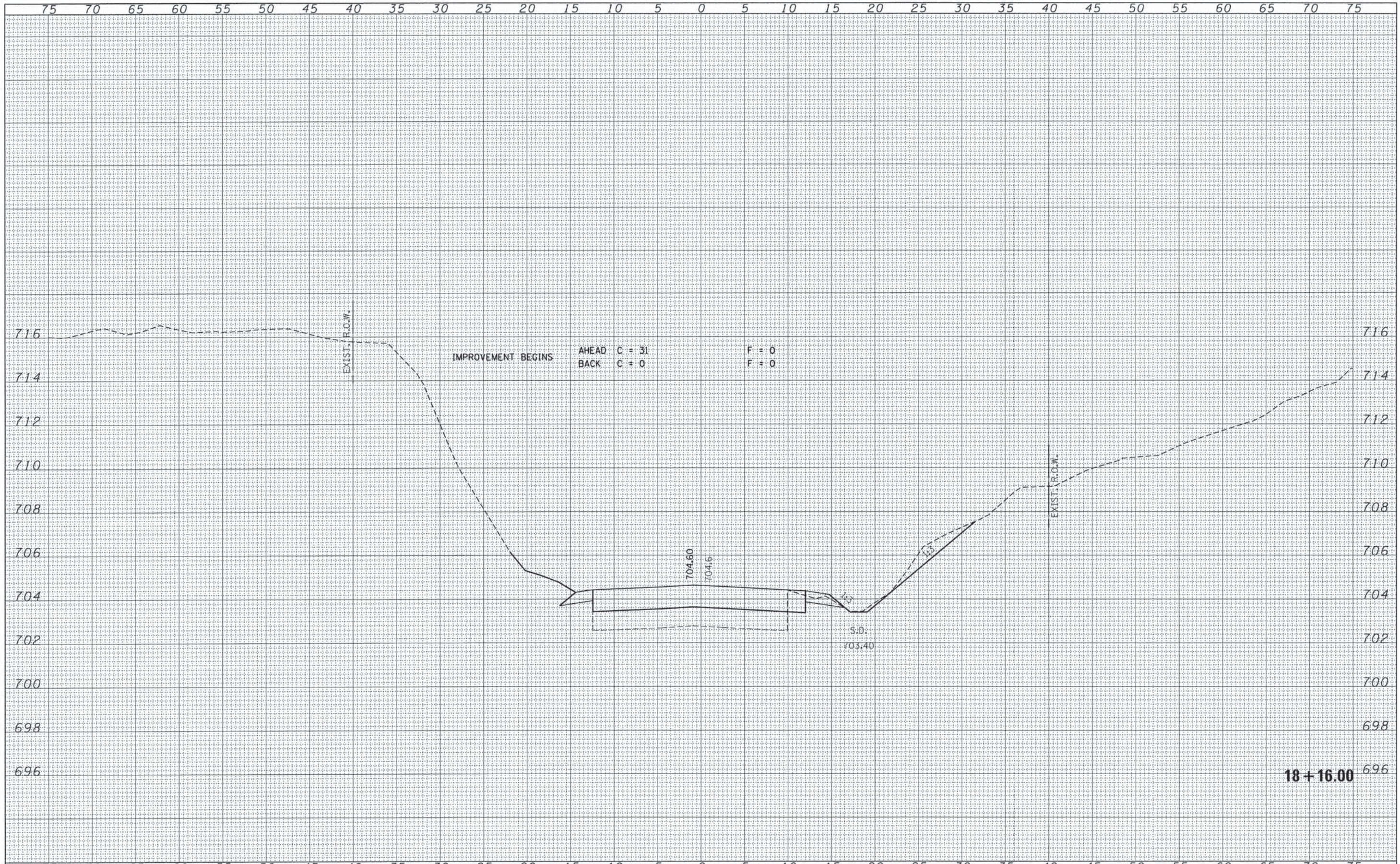
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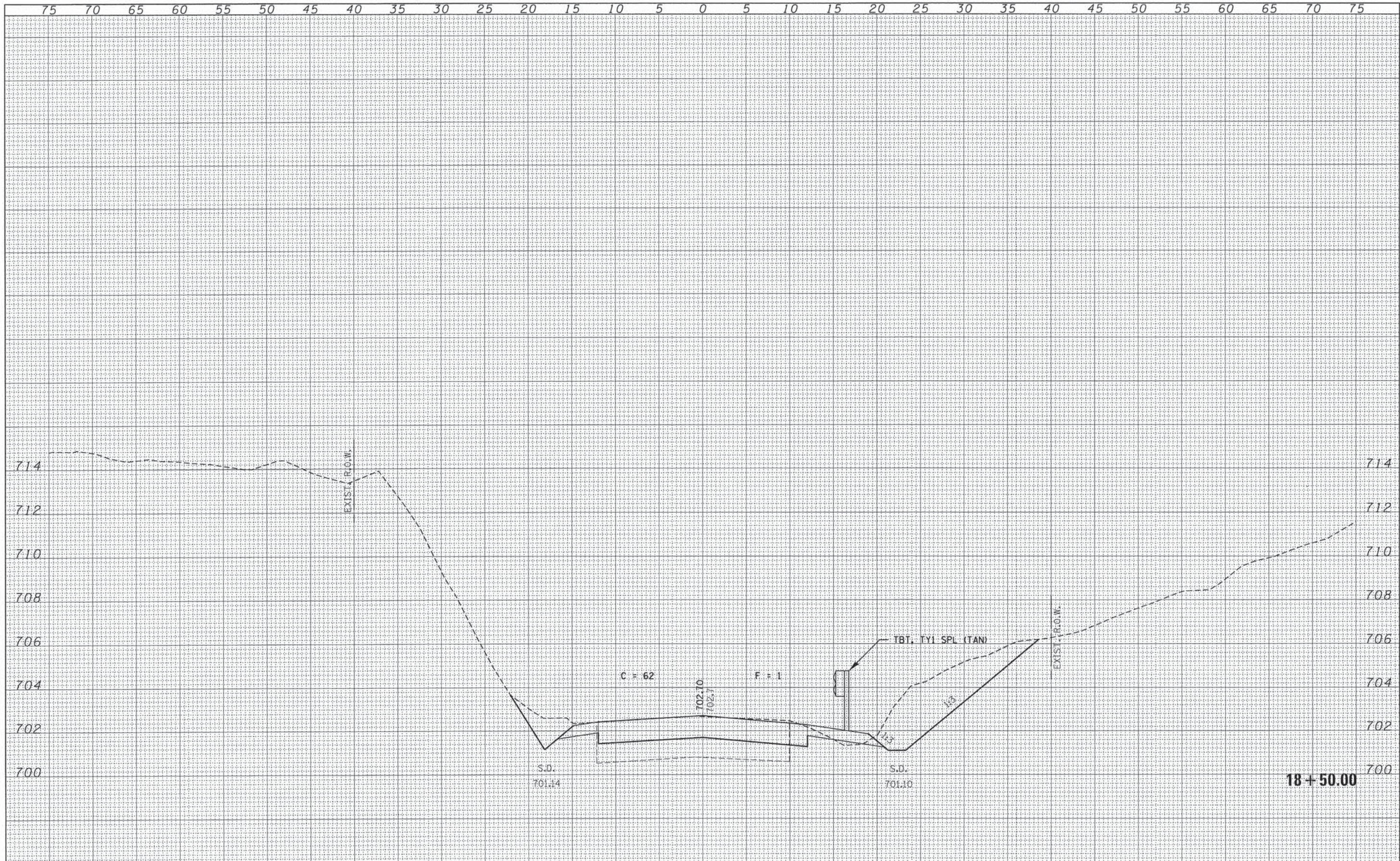
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HAMPTON, LENZINI AND RENWICK, INC. 3000 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000989		DRAWN - L.G.C.	REVISED -			SCALE: 5H:2V	SHEET NO. 2 OF 16 SHEETS	STA. 18+00.00 TO STA. 18+00.00	375	13-00175-00-DR	STARK	24
PLOT SCALE =		CHECKED - S.W.M.	REVISED -							CONTRACT NO. 89687		
PLOT DATE = 4/9/2015		DATE - 04/09/15	REVISED -							ILLINOIS FED. AID PROJECT		

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FILE NAME = 148118-9ht-9ss.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS				F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -		375	13-00175-00-DR	STARK	24	11				
308 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62709	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		SCALE: 5H:2V SHEET NO. 3 OF 16 SHEETS STA. 18+16.00 TO STA. 18+16.00				CONTRACT NO. 89687				
ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184-00999	PLOT DATE = 4/9/2015	DATE - 04/09/15	REVISED -		ILLINOIS FED. AID PROJECT								

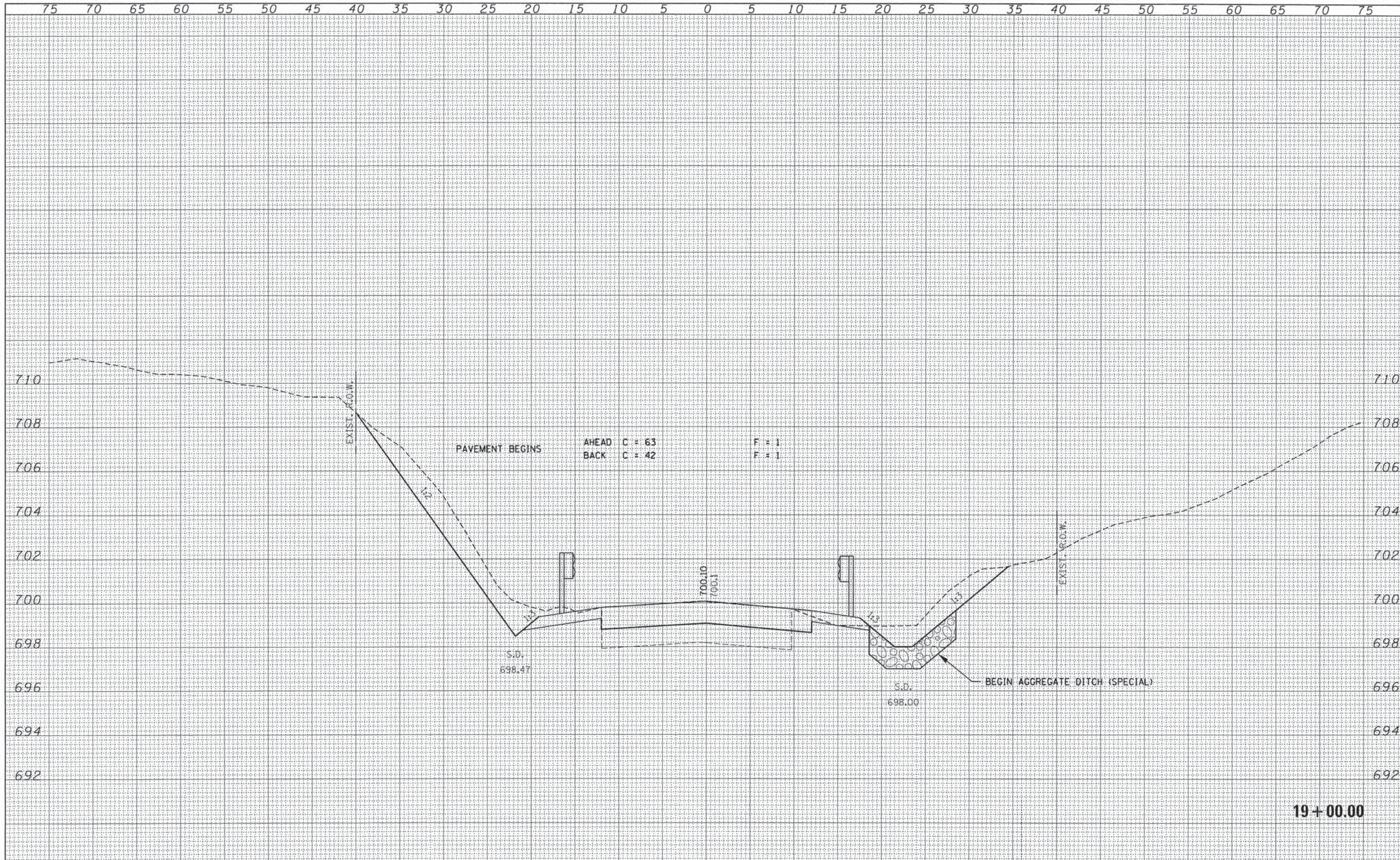


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HAMPTON, LENZINI AND RENWICK, INC. 3095 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - L.G.C.	REVISED -	SCALE: 5H:2V				375	13-00175-00-DR	STARK	24	12
PLOT SCALE =		CHECKED - S.W.M.	REVISED -	SHEET NO. 4 OF 16 SHEETS				CONTRACT NO. 89687				
PLOT DATE = 4/9/2015		DATE - 04/09/15	REVISED -	STA. 18+50.00 TO STA. 18+50.00				ILLINOIS FED. AID PROJECT				

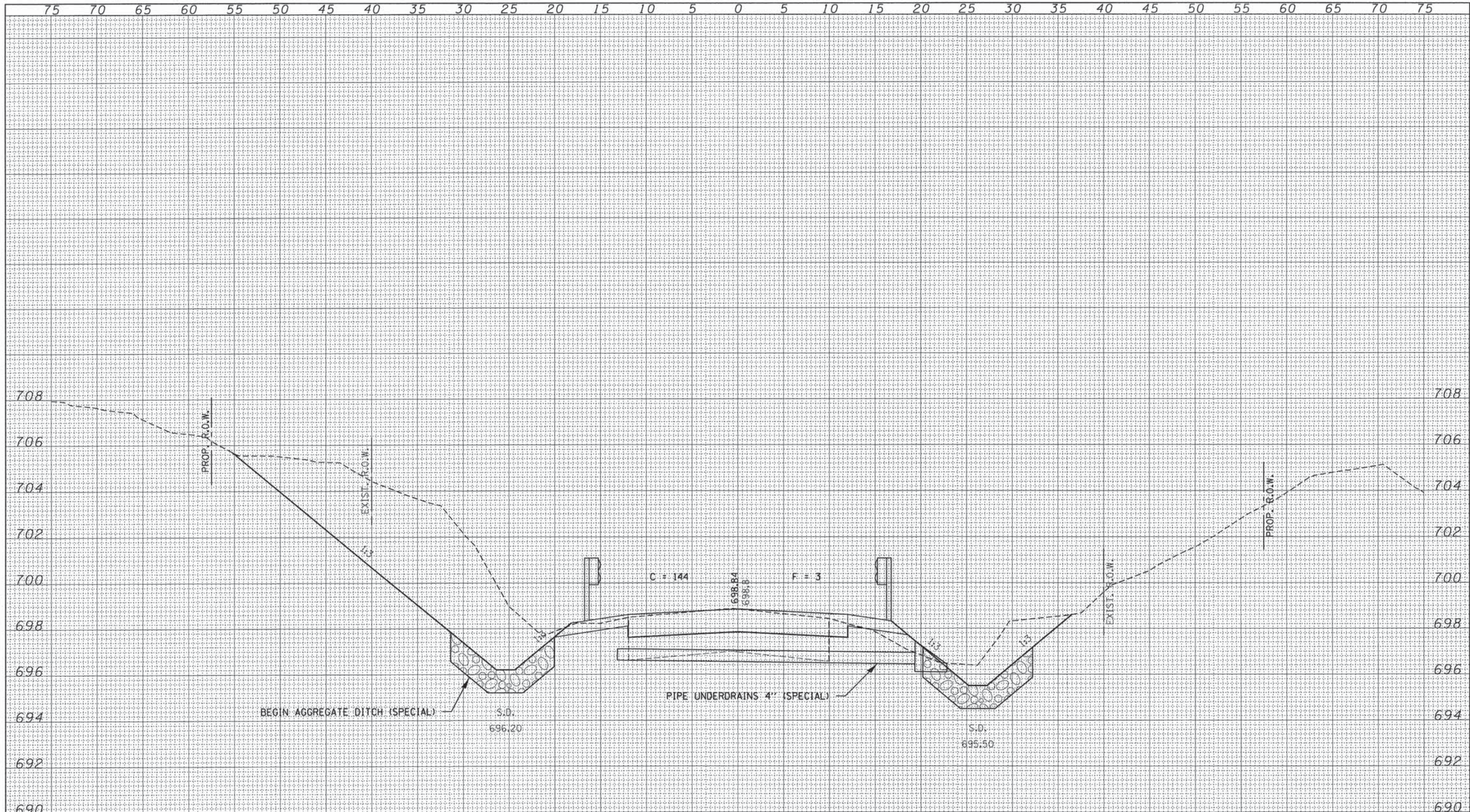
STATE OF ILLINOIS
STARK COUNTY HIGHWAY DEPARTMENT



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HAMPTON, LENZINI AND RENWICK, INC. 308 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62760	PLOT SCALE =	DRAWN - L.G.C.	REVISED -	STATION CROSS SECTIONS				375	13-00175-00-DR	STARK	24	13
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00069	PLOT DATE = 4/9/2015	CHECKED - S.W.M.	REVISED -	SCALE: 5H:2V				SHEET NO. 5 OF 16 SHEETS		STA. 19+00.00 TO STA. 19+00.00		CONTRACT NO. 89687
		DATE - 04/09/15	REVISED -							ILLINOIS FED. AID PROJECT		



19+25.00

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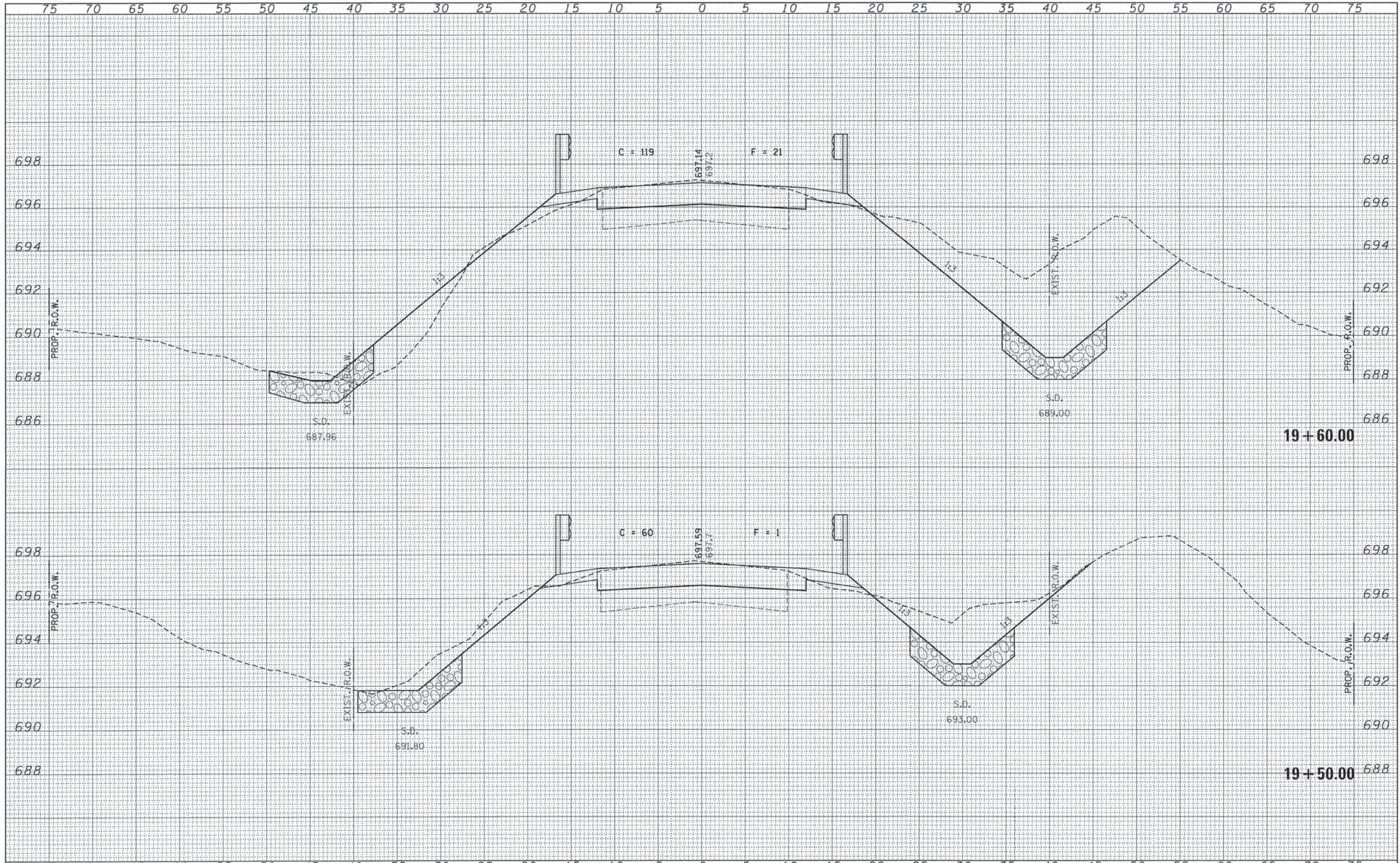
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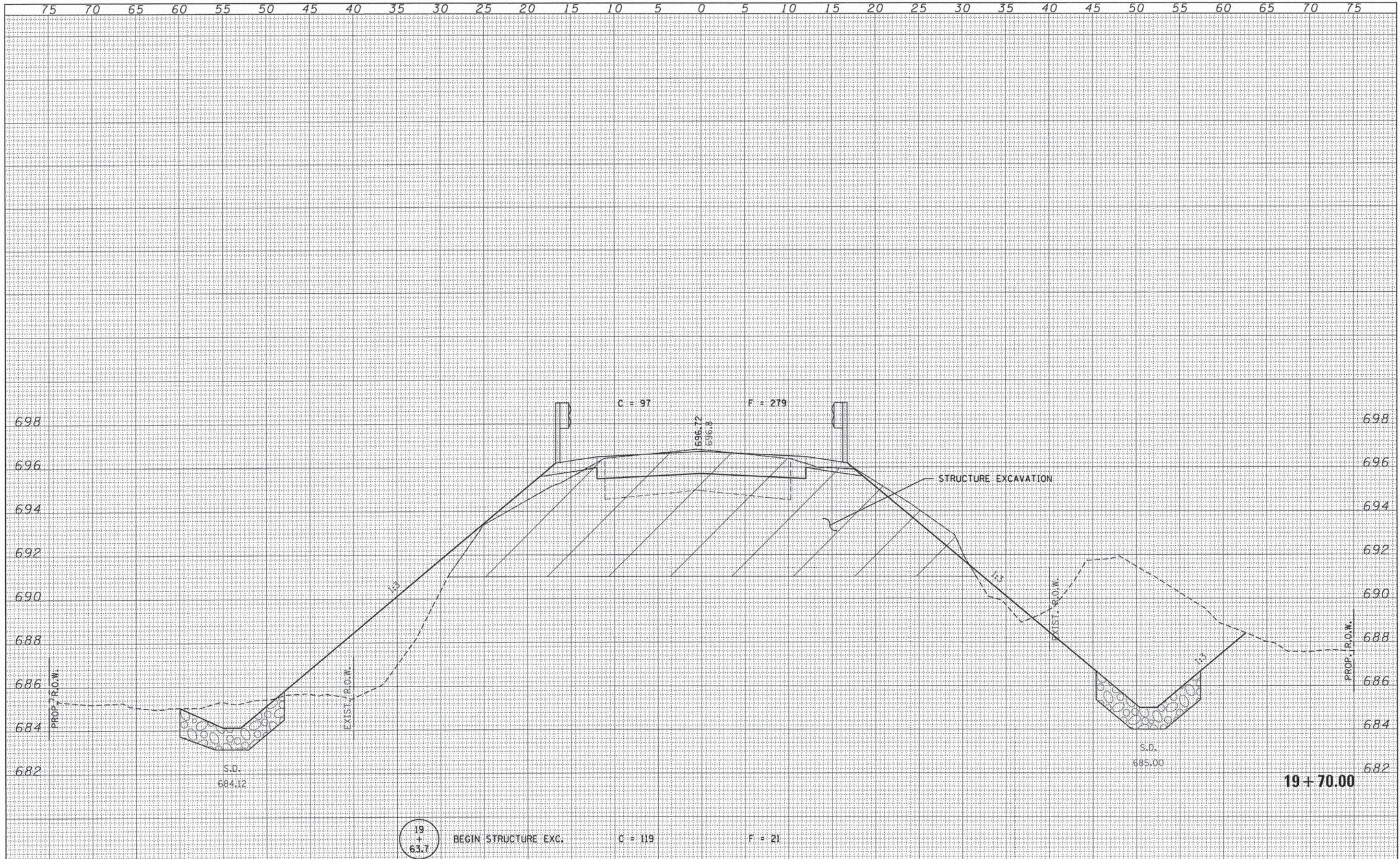
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62789		DRAWN - L.G.C.	REVISED -	375	13-00175-00-DR	STARK	24	15
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00099	PLOT SCALE =	CHECKED - S.W.M.	REVISED -	SCALE: 5H:2V		SHEET NO. 7 OF 16 SHEETS		STA. 19+50.00 TO STA. 19+60.00
	PLOT DATE = 4/9/2015	DATE - 04/09/15	REVISED -	STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT		CONTRACT NO. 89687		ILLINOIS FED. AID PROJECT

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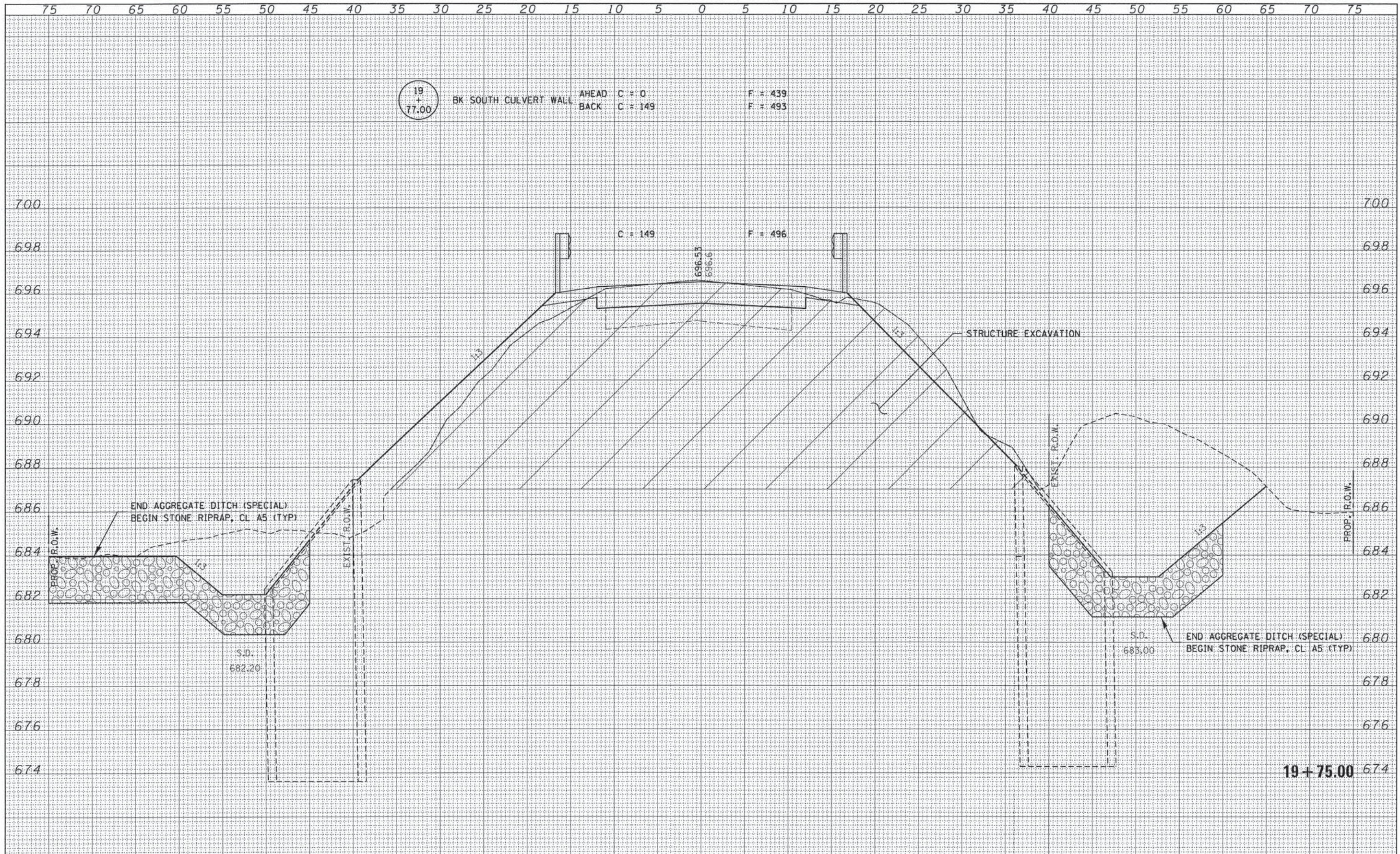
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HAMPTON, LENZINI AND RENWICK, INC. 308 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761		DRAWN - L.G.C.	REVISED -	STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT				375	13-00175-00-DR	STARK	24	16	
ILR ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00089	PLOT SCALE =	CHECKED - S.W.M.	REVISED -	SCALE: 5H:2V				SHEET NO. 8 OF 16 SHEETS		STA. 19+70.00 TO STA. 19+70.00		CONTRACT NO. 89687	
	PLOT DATE = 4/9/2015	DATE - 04/09/15	REVISED -									ILLINOIS FED. AID PROJECT	

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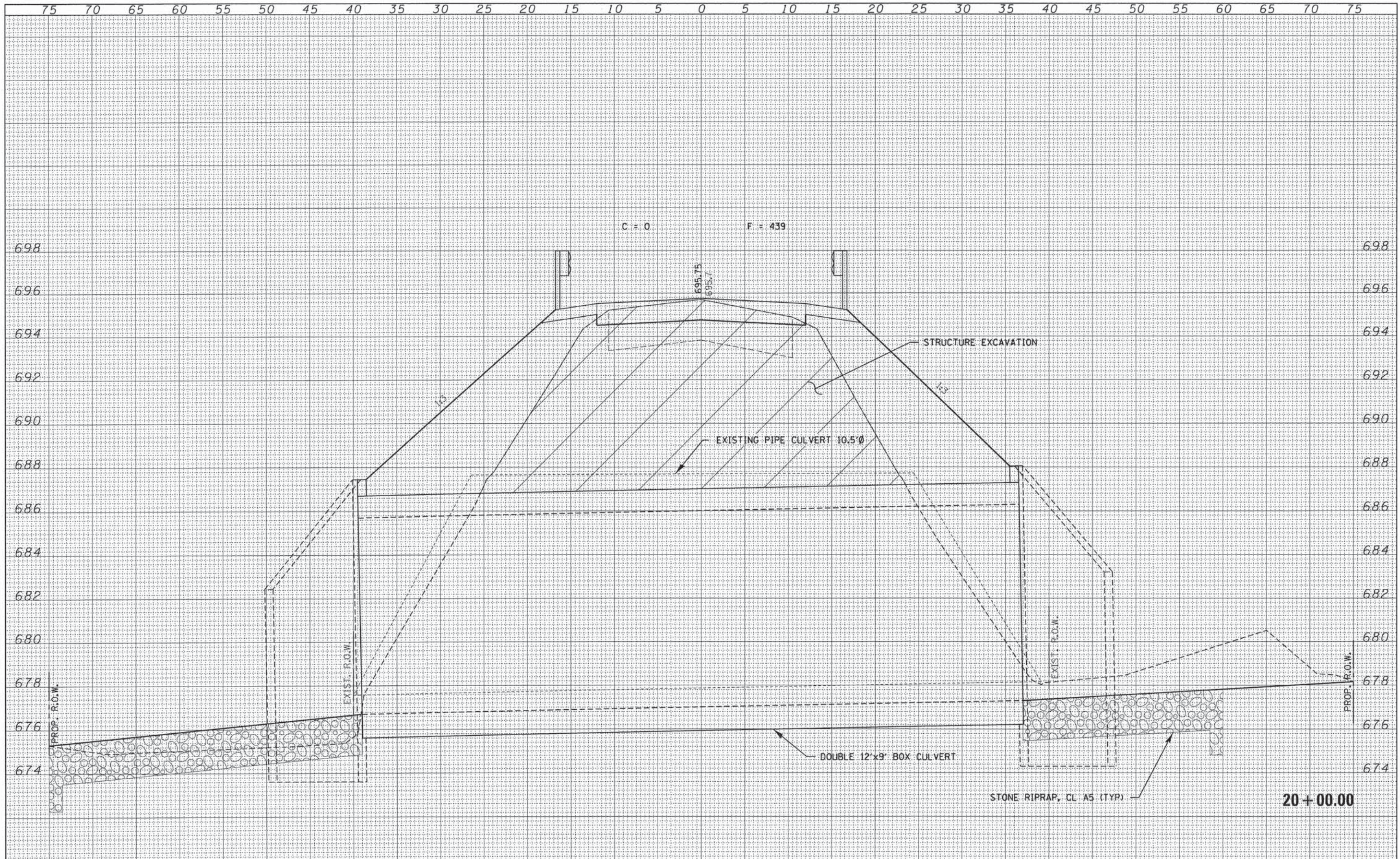
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -	375	13-00175-00-DR	STARK	24	17
3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62708	PLOT SCALE =	CHECKED - S.W.M.	REVISED -	STARK COUNTY HIGHWAY DEPARTMENT				CONTRACT NO. 89687
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-009991	PLOT DATE = 4/9/2015	DATE - 04/09/15	REVISED -	SCALE: 5H:2V				ILLINOIS FED. AID PROJECT
				STATION CROSS SECTIONS				
				SHEET NO. 9 OF 16 SHEETS				
				STA. 19+75.00 TO STA. 19+75.00				

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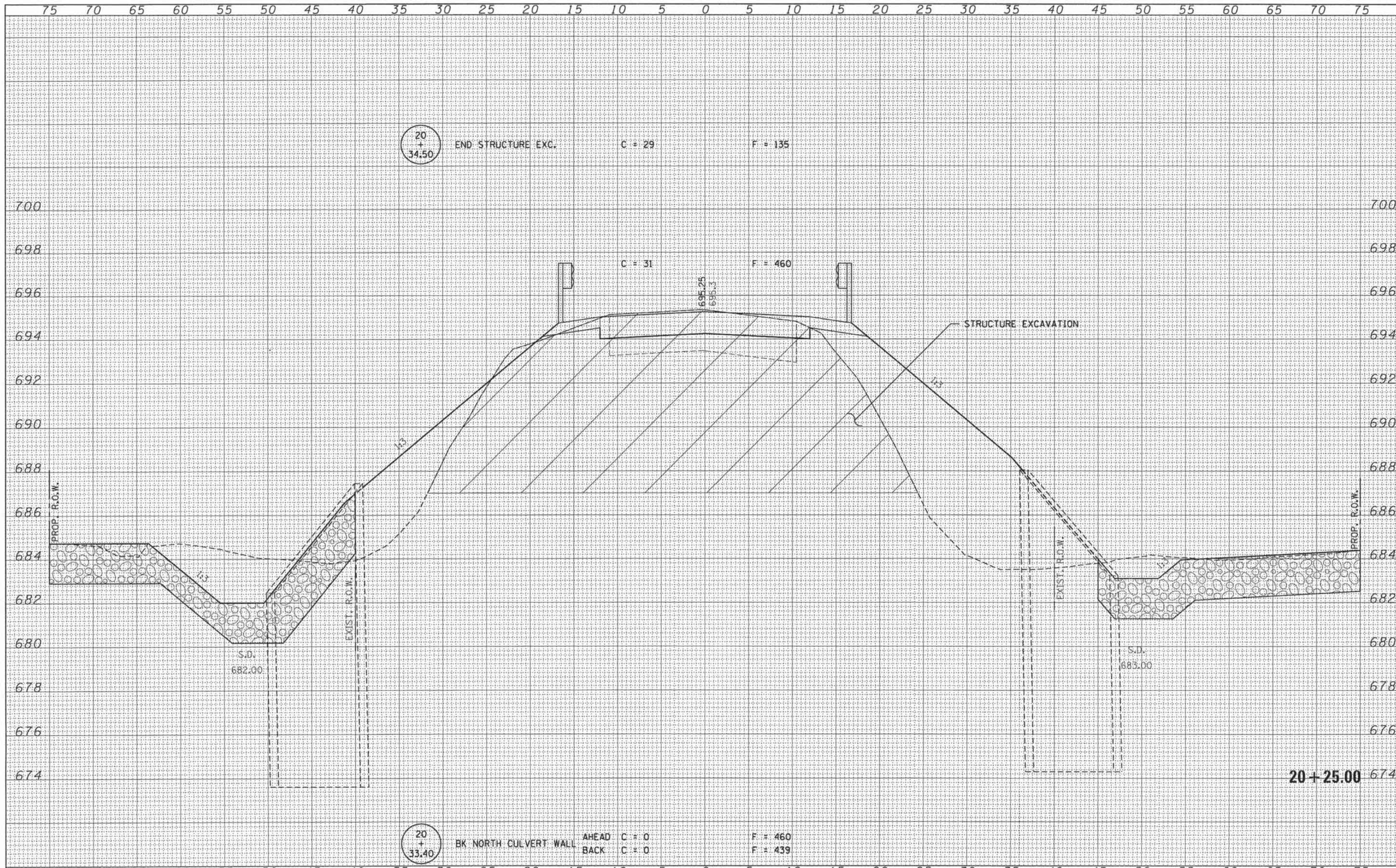
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -		375	13-00175-00-OR	STARK	24	18	CONTRACT NO. 89687		
3008 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		SCALE: 5H:2V	SHEET NO. 10 OF 16 SHEETS	STA. 20+00.00 TO STA. 20+00.00	ILLINOIS FED. AID PROJECT				
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000991	PLOT DATE = 4/9/2015	DATE - 04/09/15	REVISED -									

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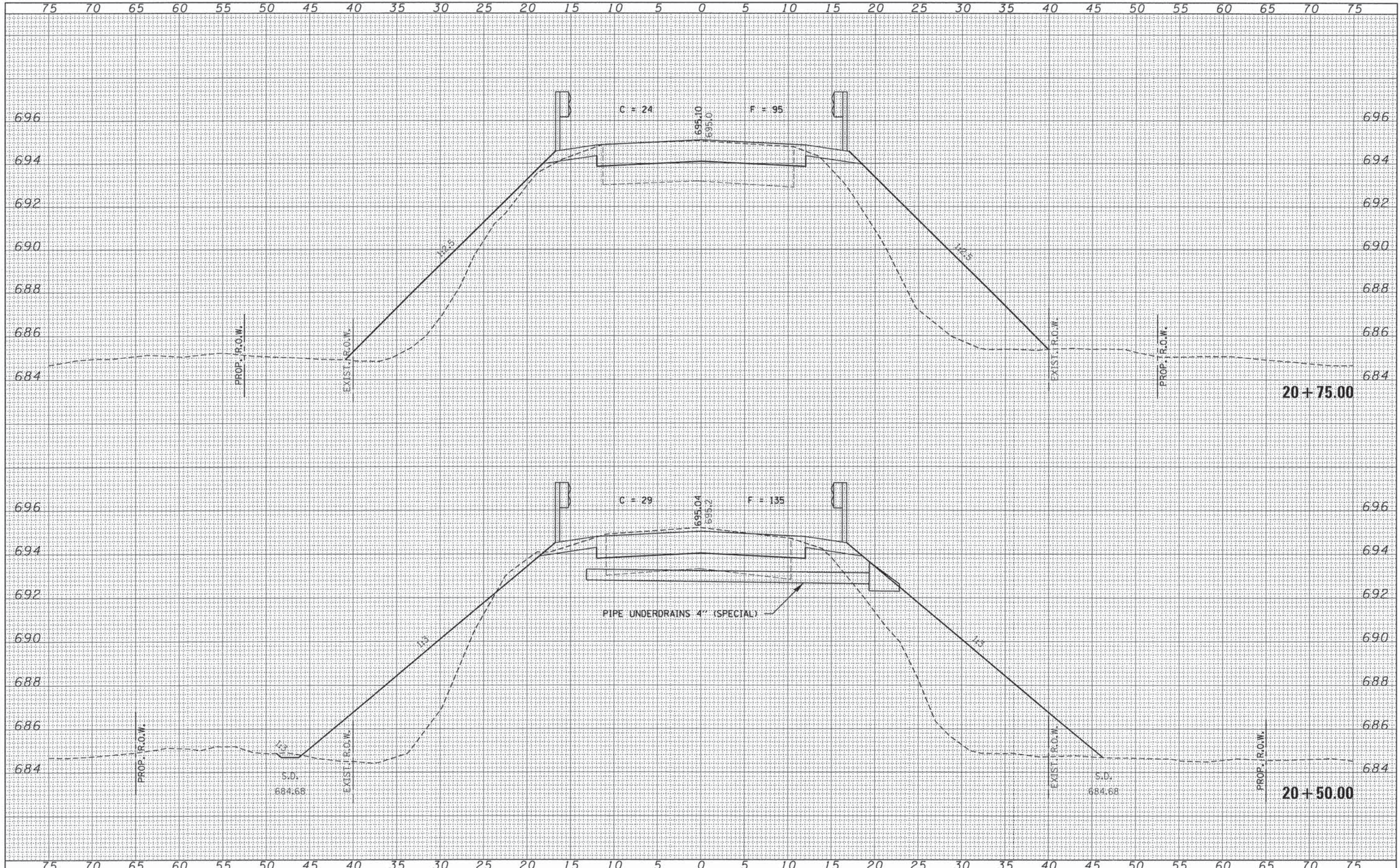
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62781		DRAWN - L.G.C.	REVISED -	375	13-00175-00-DR	STARK	24	19
ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184-000069	PLOT SCALE =	CHECKED - S.W.M.	REVISED -	SCALE: 5H:2V		SHEET NO. 11 OF 16 SHEETS		CONTRACT NO. 89687
	PLOT DATE = 4/9/2015	DATE - 04/09/15	REVISED -	STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT		STA. 20+25.00 TO STA. 20+25.00		ILLINOIS FED. AID PROJECT

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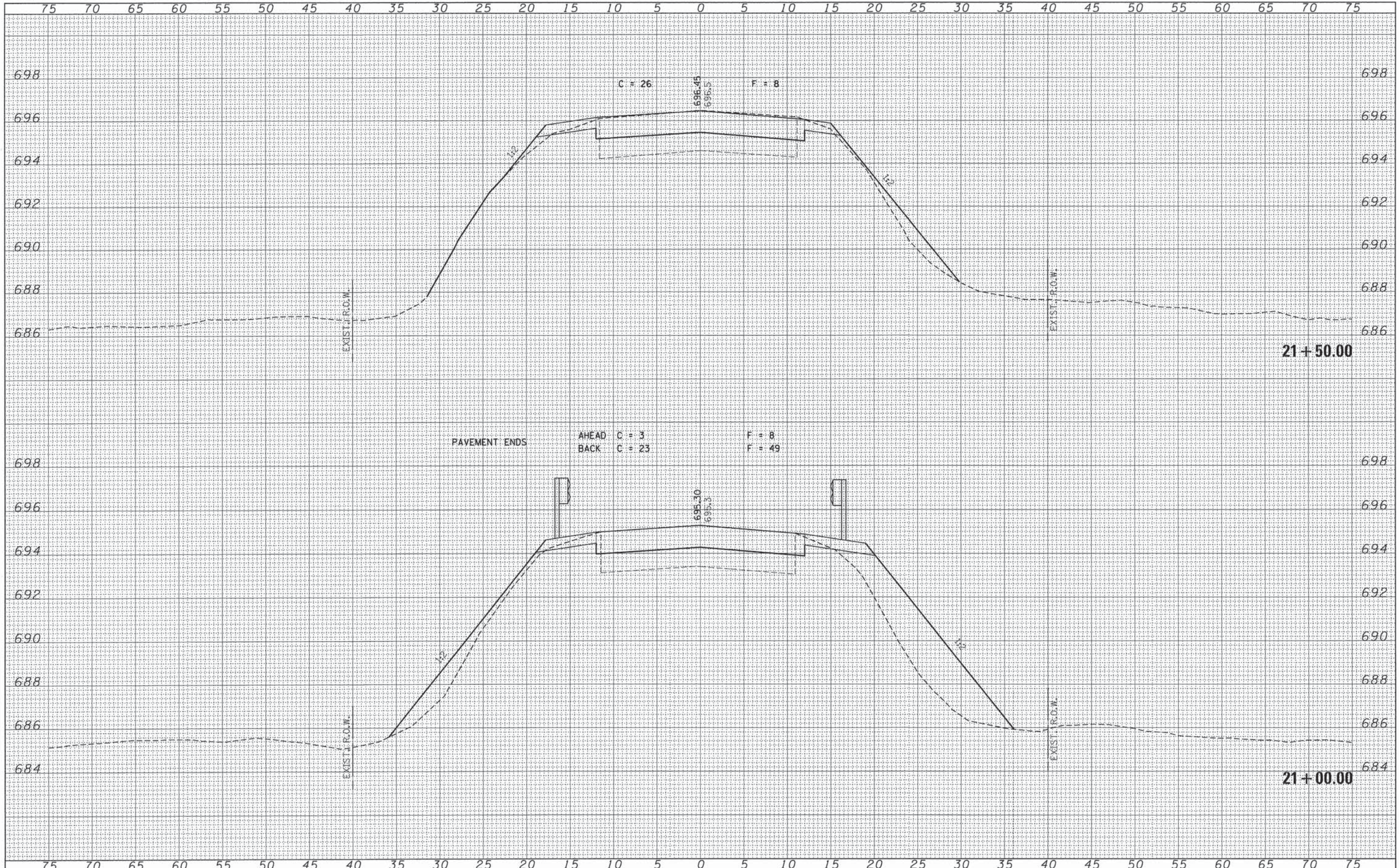
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -	STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT				375	13-00175-00-DR	STARK	24	20	
2004 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -	SCALE: 5H:2V				SHEET NO. 12 OF 16 SHEETS		STA. 20+50.00 TO STA. 20+75.00		CONTRACT NO. 89687	
ILLINOIS PROFESSIONAL DESIGN FIRM 18 / PE / SE CORP. 184-00099		DATE - 04/09/15	REVISED -									ILLINOIS FED. AID PROJECT	
PLOT SCALE =	PLOT DATE = 4/9/2015												

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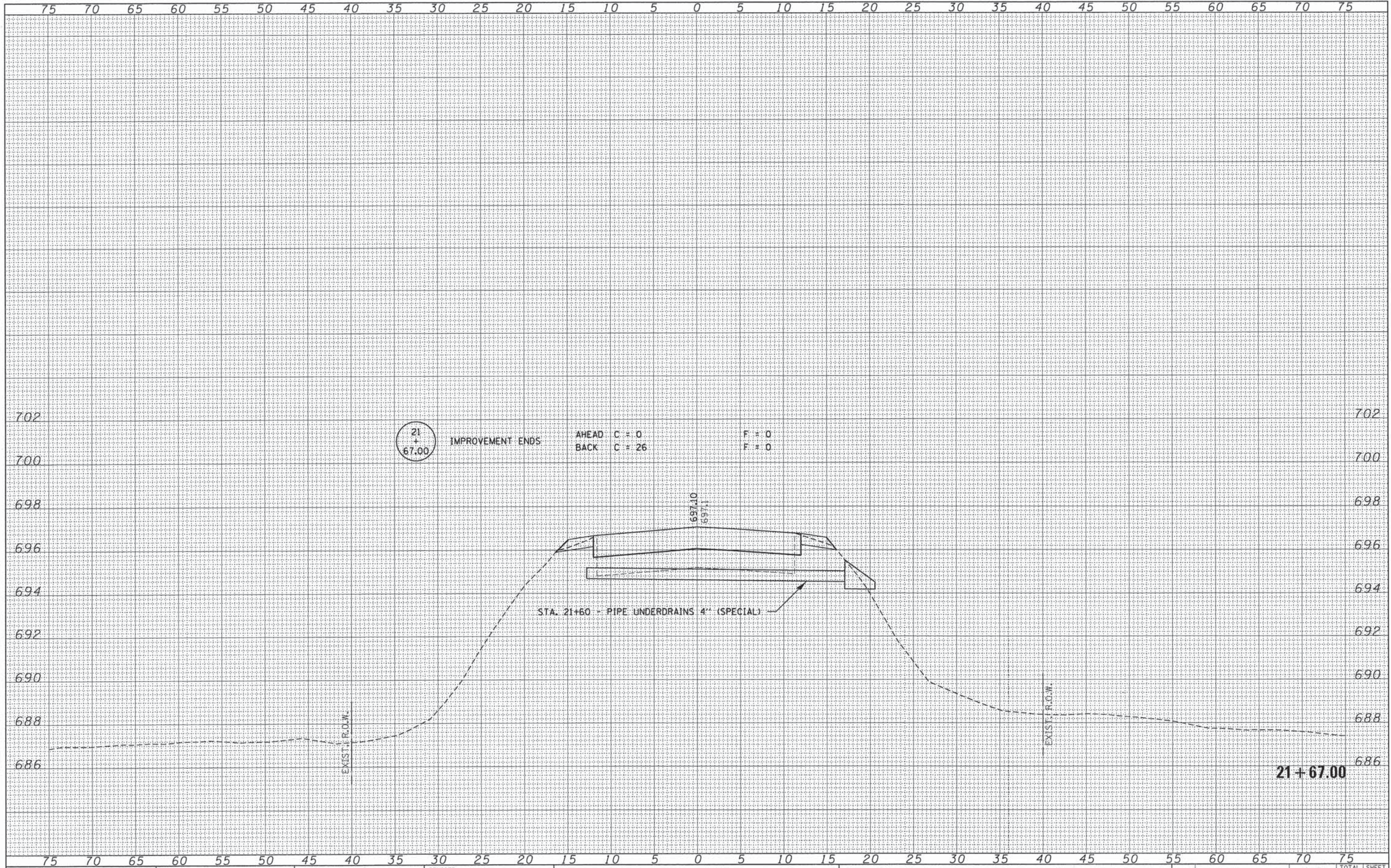
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HAMPTON, LENZINI AND RENWICK, INC. 2008 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184 00009		DRAWN - L.G.C.	REVISED -					SCALE: 5H:2V	SHEET NO. 13 OF 16 SHEETS	STA. 21+00.00 TO STA. 21+50.00	375	13-00175-00-DR	STARK	24	21	
PLOT SCALE =		CHECKED - S.W.M.	REVISED -					CONTRACT NO. 89687				ILLINOIS FED. AID PROJECT				
PLOT DATE = 4/9/2015		DATE - 04/09/15	REVISED -													

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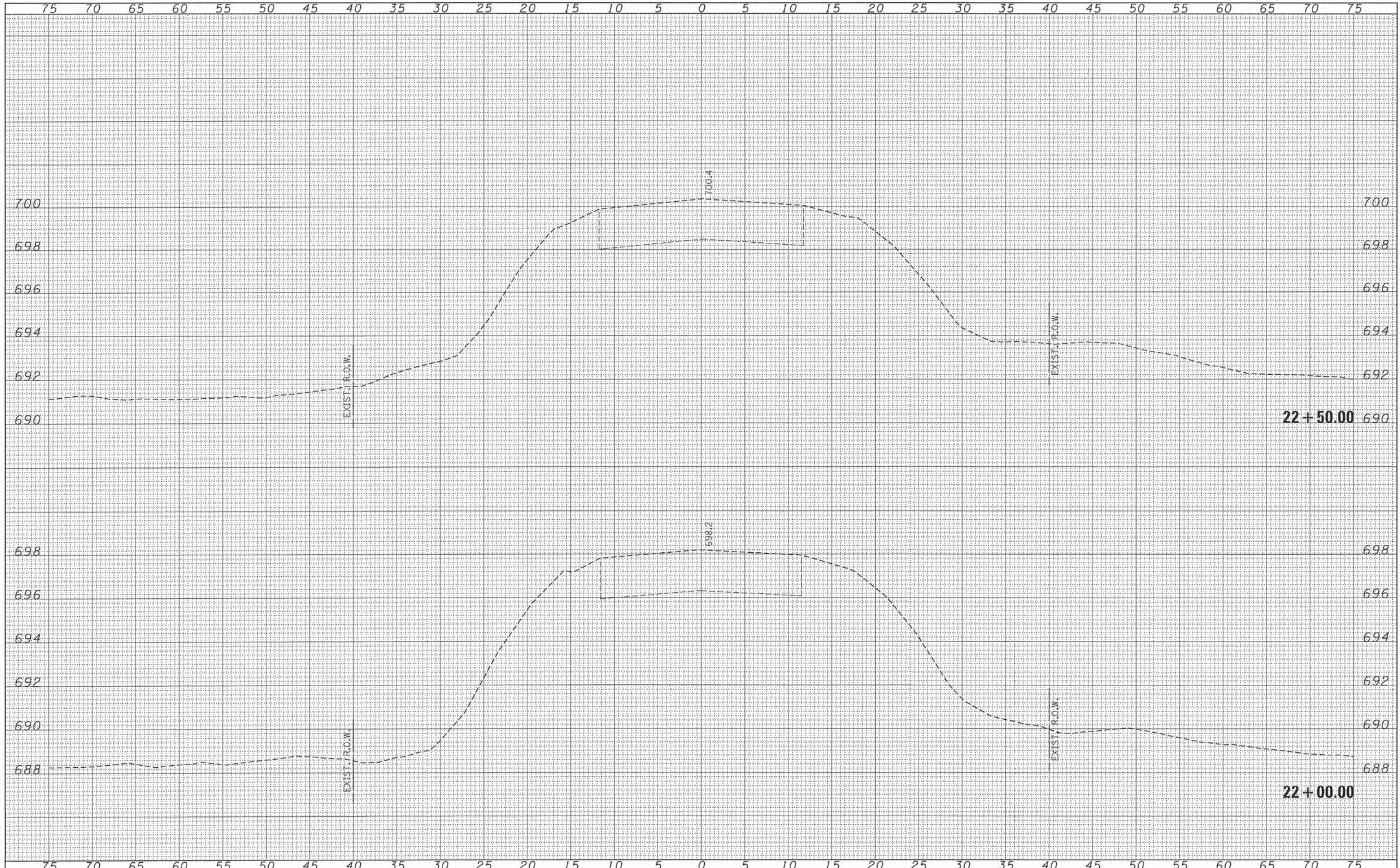
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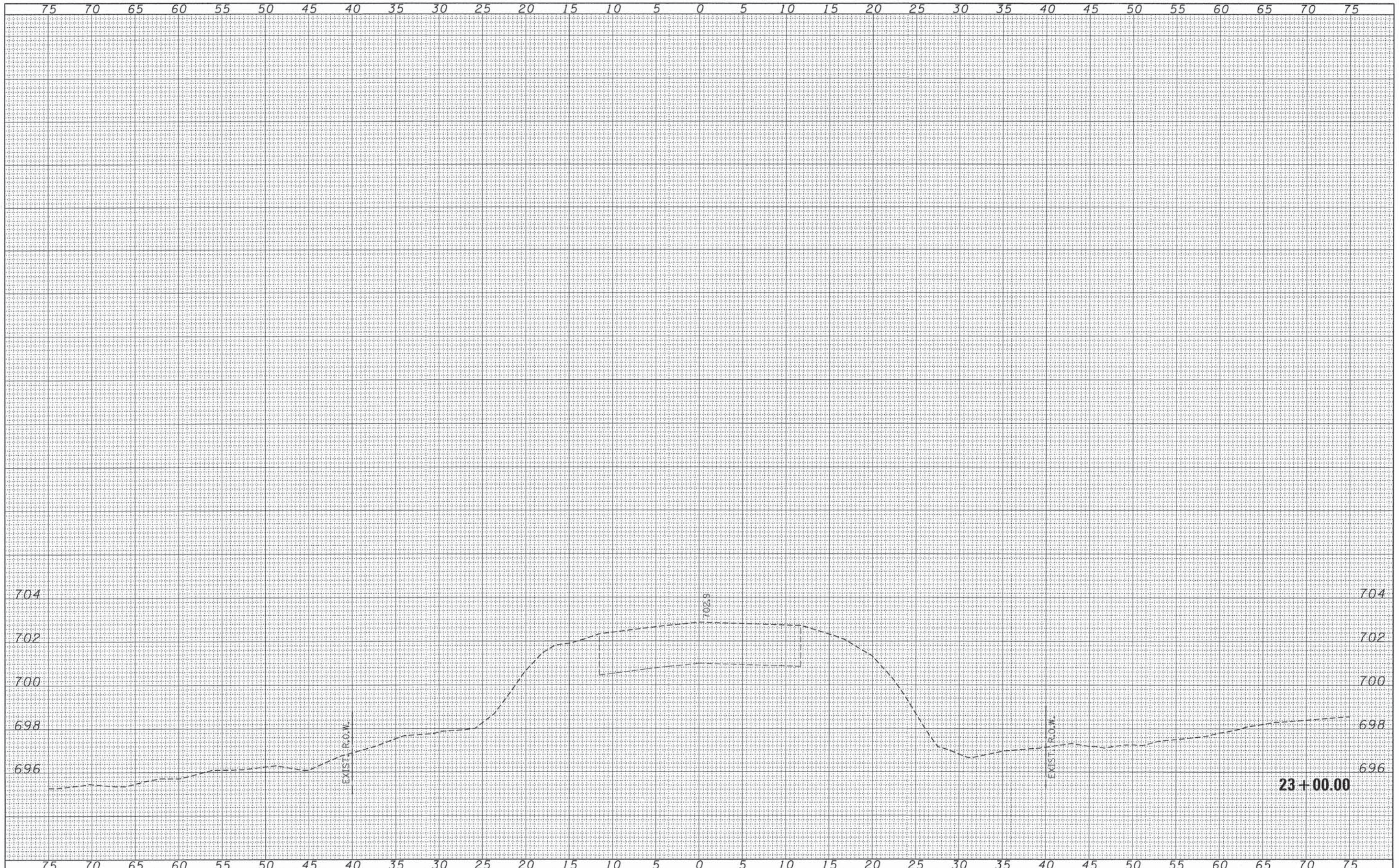
FILE NAME = 140110-shl-xxx.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATION CROSS SECTIONS				F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 1001 STEVENSON DRIVE SUITE 201 SPRINGFIELD, ILLINOIS 62763 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 144 00099				STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT				375	13-00175-00-DR	STARK	24	22
PLOT SCALE = PLOT DATE = 4/9/2015				CHECKED - S.W.M. DATE - 04/09/15				SCALE: 5H:2V SHEET NO. 14 OF 16 SHEETS STA. 21+67.00 TO STA. 21+67.00 CONTRACT NO. 89687				
											ILLINOIS FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	
REVERTED SURVEY	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

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



FILE NAME = 140110-shr-sss.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT SCALE: 5H:2V SHEET NO. 15 OF 16 SHEETS STA. 22+00.00 TO STA. 22+50.00	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -		375	13-00175-00-DR	STARK	24	23
308 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62760	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		CONTRACT NO. 89687				
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000893	PLOT DATE = 4/9/2015	DATE - 04/09/15	REVISED -		ILLINOIS FED. AID PROJECT				



DATE	
BY	
FINAL SURVEY	
ORIGINATED	
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
ORIGINATED	
NOTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

FILE NAME = 148118-sh1t-xxx.dgn	USER NAME =
HAMPTON, LENZINI AND RENWICK, INC. 308 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62708	DESIGNED - L.A.P.
HLR ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00999	DRAWN - L.G.C.
PLOT SCALE =	CHECKED - S.W.M.
PLOT DATE = 4/9/2015	DATE - 04/09/15

DESIGNED - L.A.P.	REVISED -
DRAWN - L.G.C.	REVISED -
CHECKED - S.W.M.	REVISED -
DATE - 04/09/15	REVISED -

STATE OF ILLINOIS
STARK COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS	
SCALE: 5H:2V	SHEET NO. 16 OF 16 SHEETS
STA. 23+00.00 TO STA. 23+00.00	

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
375	13-00175-00-DR	STARK	24	24
CONTRACT NO. 89687			ILLINOIS FED. AID PROJECT	