

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 375	13-00174-00-DR	STARK	30	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 89673	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

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

**PROJECT ER-0375(102)
SECTION 13-00174-00-DR
STARK COUNTY
F.A.S. 375 / C.H. 11 / SNAREVILLE ROAD
PROPOSED STRUCTURE NO. 088-3411
C-94-034-14**

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	SCHEDULE OF QUANTITIES
4.	TYPICAL CROSS SECTIONS
5-6.	PLAN AND PROFILE
7-8.	CULVERT PLANS
9.	BORINGS
10.	EMBANKMENT DETAIL
11-30.	STATION CROSS SECTIONS

HIGHWAY STANDARDS:

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-03	NAME PLATE FOR BRIDGES
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

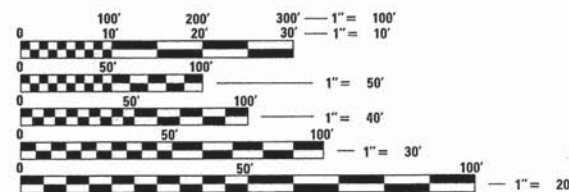
FRONTIER COMMUNICATIONS
104 MULBERRY
NORMAL, IL 61761

MEDIACOM
409 MASSEY LANE
JACKSONVILLE, IL 62650

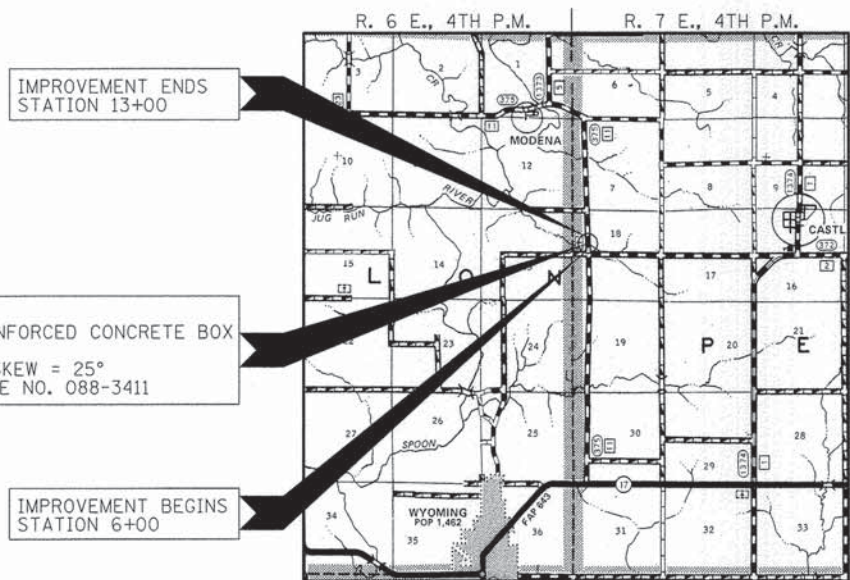


LOCATION OF SECTION INDICATED THIS: - [shaded box] -

FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
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 = 700 FEET = 0.133 MILES



ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	April 10 2015 <i>Wah J. Otter</i> COUNTY ENGINEER
PASSED	April 10 2015 <i>Tom Sabie</i> DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS
Releasing For Bid Based on Limited Review	April 14 2015 <i>Debra A. Jones</i> DEPUTY DIRECTOR OF HIGHWAYS REGION THREE ENGINEER STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CATALOG NO. 035045-00
CONTRACT NO. 89673

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



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

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION CODE	
		000 8	
		UNIT	TOTAL
20100500	TREE REMOVAL, ACRES	ACRE	0.1
20200100	EARTH EXCAVATION	CU YD	190
20400800	FURNISHED EXCAVATION	CU YD	595
20700110	POROUS GRANULAR EMBANKMENT	TON	1,030
25100115	MULCH, METHOD 2	ACRE	0.8
25100630	EROSION CONTROL BLANKET	SQ YD	3,872
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	320
28100209	STONE RIPRAP, CLASS A5	TON	340
35101400	AGGREGATE BASE COURSE, TYPE B	TON	446
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,705
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	74
40600990	TEMPORARY RAMP	SQ YD	12
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	282
48101200	AGGREGATE SHOULDERS, TYPE B	TON	276
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	2,300
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	78,100
51500100	NAME PLATES	EACH	1
54003000	CONCRETE BOX CULVERTS	CU YD	362.1
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	200
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	138
X2501100	SEEDING, CLASS 3 (SPECIAL)	ACRE	0.8

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

MIXTURE REQUIREMENTS	
LOCATION(S):	CH 11 / SNAREVILLE ROAD
MIXTURE USE(S):	HMA SURF. CSE, MIX "C", N50
PG:	P6-64-22
DESIGN AIR VOIDS:	4% @ Ndes 50
MIXTURE COMPOSITION: (GRADATION MIXTURE):	IL 9.5
FRICTION AGGREGATE:	MIXTURE C
MIXTURE WEIGHTS:	112 LBS / SY / INCH THICKNESS
QUALITY CONTROL PROGRAM:	QC/QA

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", (HEREIN 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 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
HOT MIX ASPHALT	112 LB/IN/SQ YD
POROUS GRANULAR EMBANKMENT	2.00 TON/CU YD
BITUMINOUS MATERIALS (PRIME COAT):	
ON AGGREGATE BASE COURSE	0.25 LB/SQ FT
ON EXISTING A3 SURFACE	0.05 LB/SQ FT
FOG COAT BETWEEN HMA LIFTS	0.025 LB/SQ FT
- THE AREA TO BE SEEDDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER. SEEDING, CLASS 3 (SPECIAL) = 0.8 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 SEEDDED. THE TOP 4 INCHES OF THE SEEDDED 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)
 - ALLOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
 - COLOR PHOTOGRAPHS DEPICTING THE USE AREA
 - BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101

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

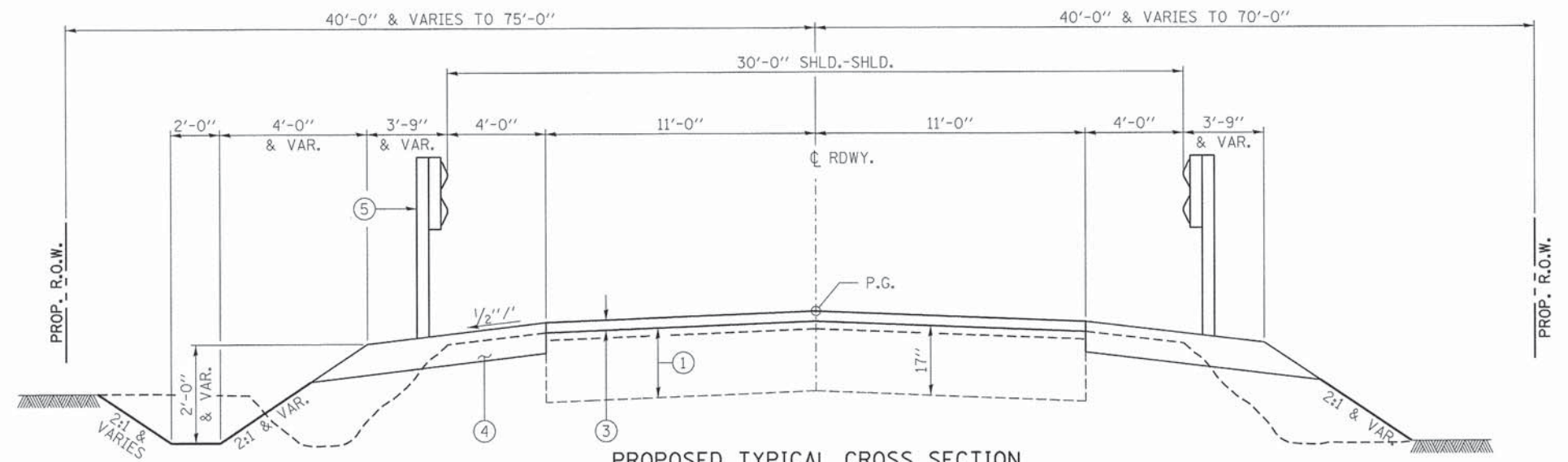
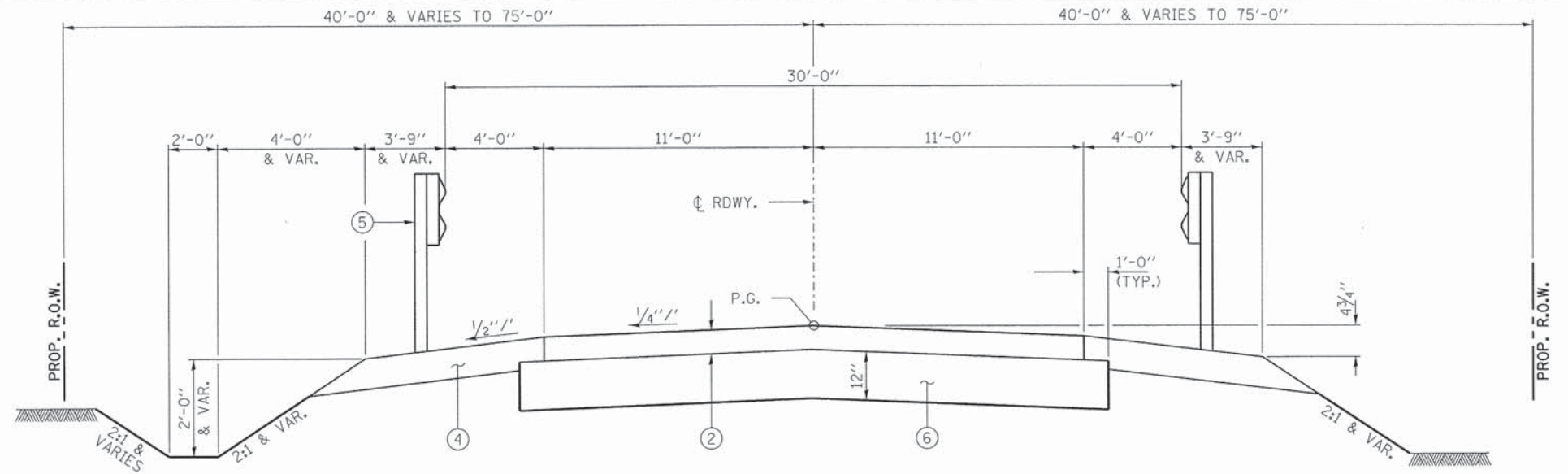
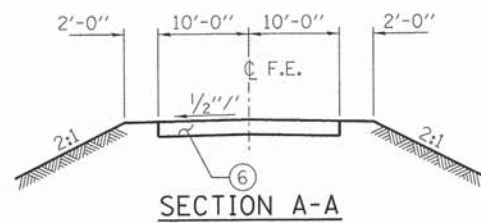
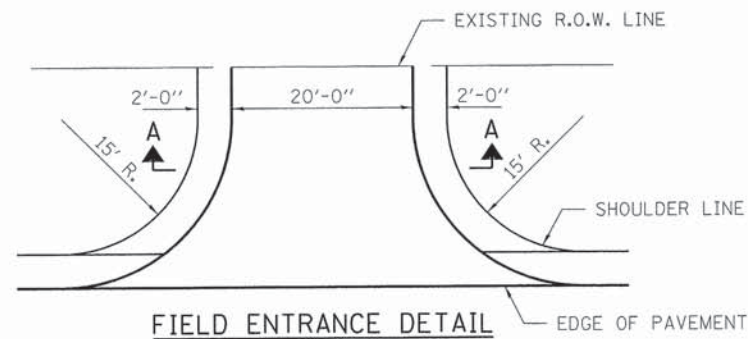
PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE
- EXCAVATION REQUIRED TO CONSTRUCT THE CULVERT SHALL BE PAID FOR AS STRUCTURE EXCAVATION MEASURED ABOVE THE TOP OF SLAB ELEVATION (688.5 +/-). EXCAVATION BELOW THIS ELEVATION SHALL BE INCLUDED IN THIS COST OF THE ITEM CONSTRUCTED. EXCAVATED MATERIAL MAY BE USED IN PROPOSED EMBANKMENT AS PER THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO LOCAL AGRICULTURAL TRAFFIC AT THE TIME THE CULVERT AREA IS BACKFILLED AND AGGREGATE BASE COURSE IS CONSTRUCTED.
- 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 = 140109-ah1-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, LENZINI AND RENWICK, INC. 3043 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000890	PLOT SCALE =	DRAWN - R.D.H.	REVISED -		375	13-00174-00-DR	STARK	30	2			
PLOT DATE = 4/9/2015	DATE - 04/09/15	CHECKED - S.W.M.	REVISED -		CONTRACT NO. 89673			ILLINOIS FED. AID PROJECT				
		DATE - 04/09/15	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.				

ROADWAY SCHEDULE						
LOCATION	AGGREGATE BASE COURSE TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT SURFACE REMOVAL BUTT JOINT	TEMPORARY RAMP	HOT-MIX ASPHALT SURFACE COURSE MIX "C", N50	AGGREGATE SHOULDER TYPE B
	35101400	40600275	40600982	40600990	40603510	48102100
	TON	POUND	SQ YD	SQ YD	TON	TON
CH 11 / SNAREVILLE ROAD						
STA 6+00 TO STA 9+50		385	74	12	120	136
STA 9+50 TO STA 10+50	182	605			55	66
STA 10+50 TO STA 12+00		110			51	74
STA 12+00 TO STA 13+00	182	605			55	38
ENTRANCES	81					
SUB TOTAL	446	1,705	74	12	281	276
TOTAL	446	1,705	74	12	282	276

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
	FOOT	EACH	EACH	EACH
CH 11 / SNAREVILLE ROAD				
LT. STA 9+10.00 TO LT. STA 11+22.50	112.5	2	2	4
RT. STA 8+62.50 TO RT. STA 10+50.00	87.5	2	2	4
TOTAL	200	4	4	8

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 6+00 TO STA 9+50	45	25.00%	100.00%	34	193	-159
STA 9+50 TO STA 10+50	32	25.00%	100.00%	24	1933	-1909
STA 10+50 TO STA 12+00	5	25.00%	100.00%	4	561	-557
STA 12+00 TO STA 13+00	108	25.00%	100.00%	81	120	-39
EXCAVATION FROM CULVERT AND P.G.E (770 CU YD)		25.00%	60.00%	347		347
STRUCTURE EXCAVATION (2300 CU YD)		25.00%	100.00%	1725		1725
TOTAL	191			2215	2808	-592
USE	190				FURNISHED -595	CU.YD.

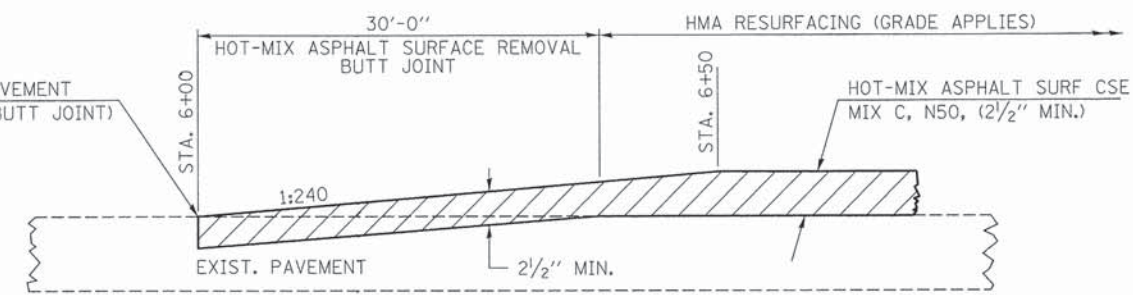


LEGEND

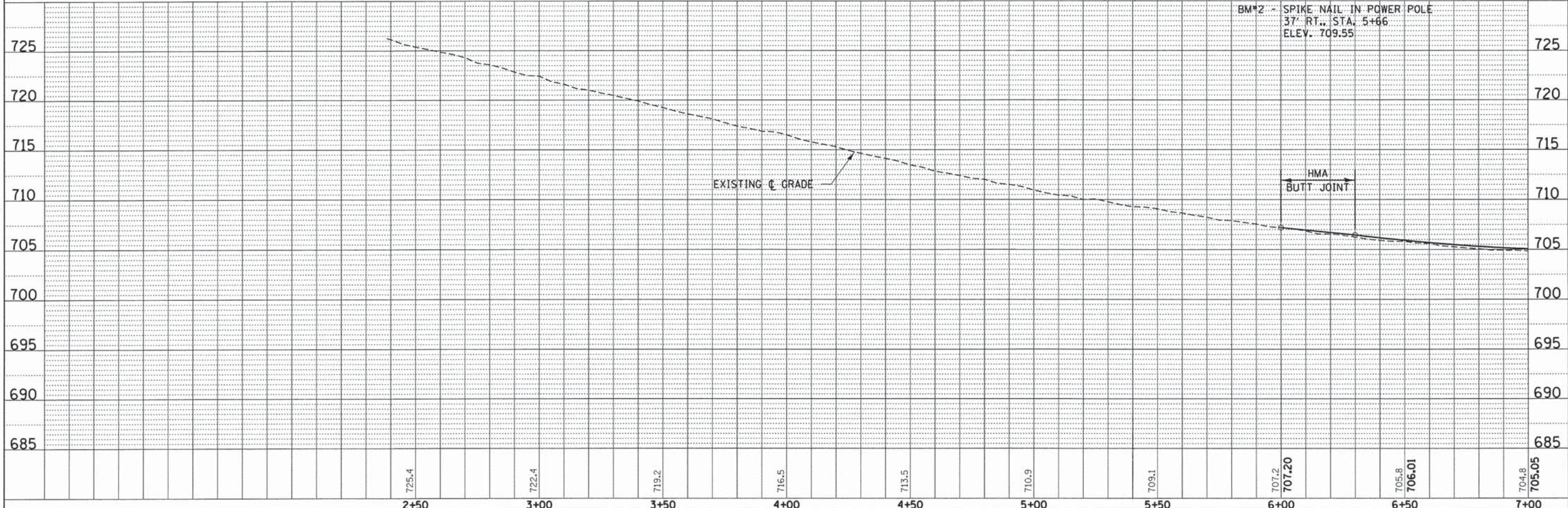
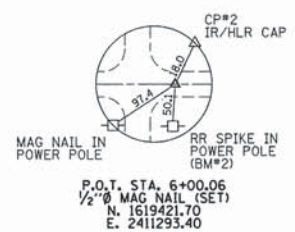
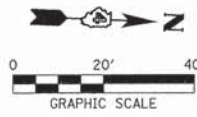
- ① EXISTING AGGREGATE BASE (11.5") WITH A3 SURFACE (5.5")
- ② HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50 (4")
- ③ HOT MIX ASPHALT SURFACE COURSE, MIX "C", N50 (2 1/2")
- ④ AGGREGATE SHOULDER, TYPE B (6")
- ⑤ PROPOSED STEEL PLATE BEAM GUARDRAIL / TRAFFIC BARRIER TERMINAL.
- ⑥ AGGREGATE BASE COURSE TYPE B (12")

PAVEMENT DESIGN (MECHANISTIC)
 DESIGN PERIOD 15 YEARS
 STRUCTURAL DESIGN TRAFFIC (SDT) = 2023 (457)
 PV = 402 SU = 32 MU = 23
 ROAD/STREET CLASSIFICATION: CLASS III
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE
 P = 88% S = 7% MU = 5%
 TRAFFIC FACTOR ACTUAL TF = 0.09

SAWCUT EXISTING PAVEMENT
(COST INCLUDED IN BUTT JOINT)



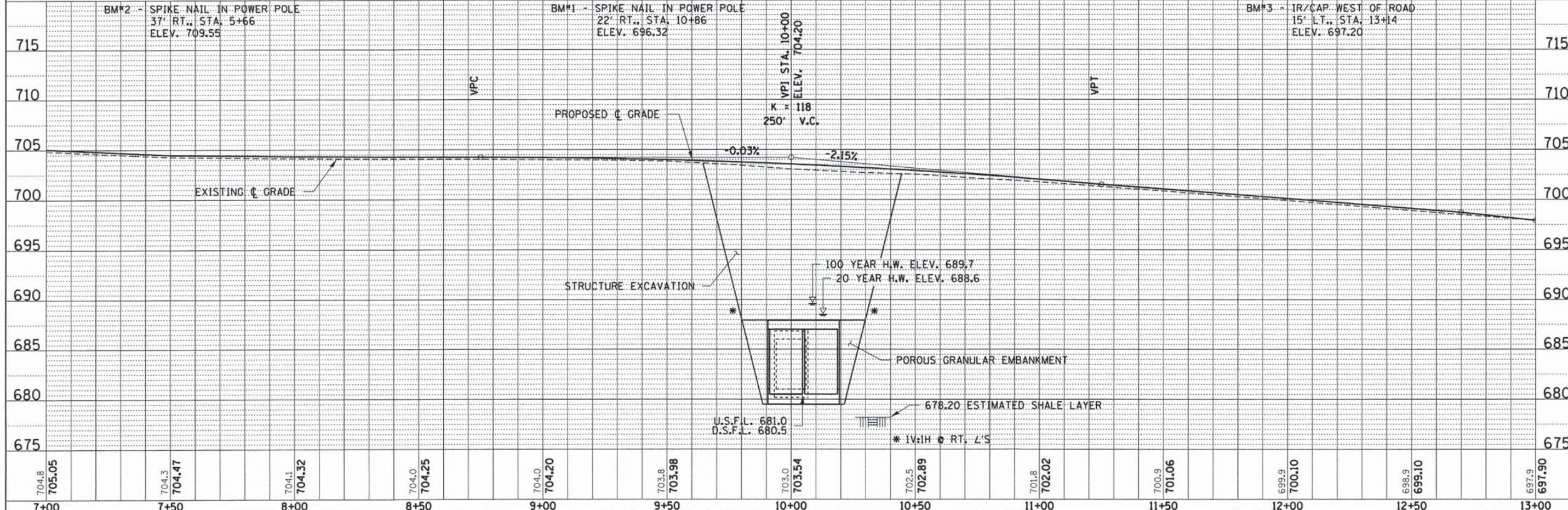
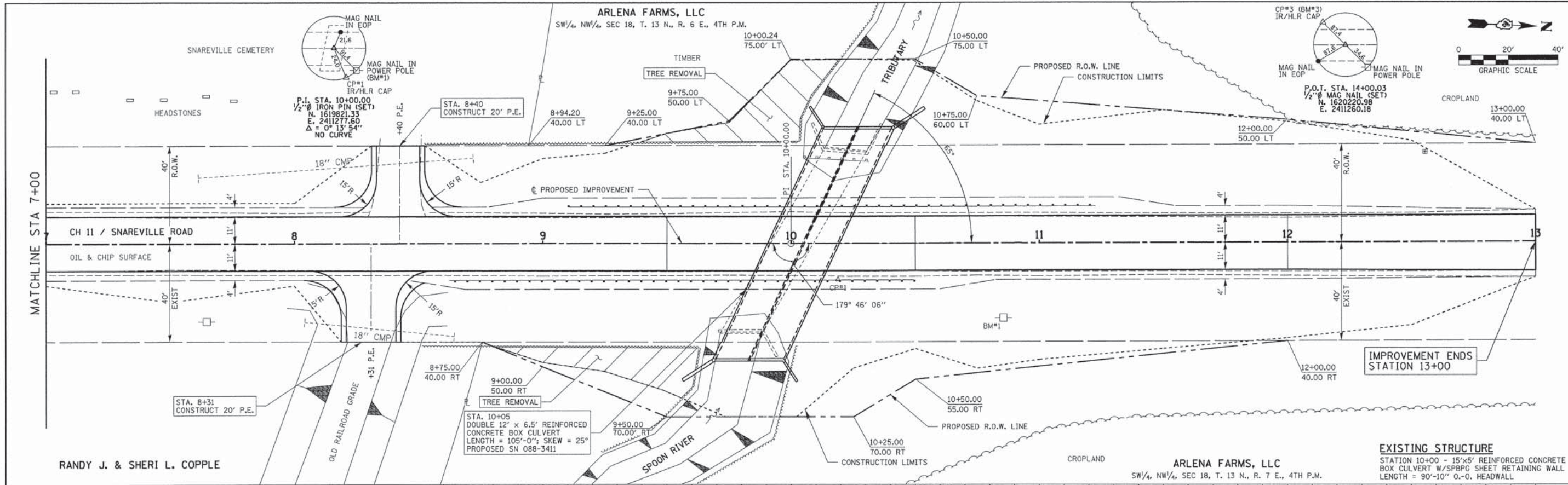
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HAMPTON, LENZINI AND RENWICK, INC. 3000 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - R.D.H.	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	375	14-00174-00-DR	STARK	30	4
ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184-000005	PLOT DATE = 4/9/2015	CHECKED - S.W.M.	REVISED -					CONTRACT NO. 89673		ILLINOIS FED. AID PROJECT			
		DATE - 04/09/15	REVISED -										



DATE	
BY	
PLANNED	
DESIGNED	
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FILE NAME = 140129-ahp-p&p.dgn	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.
DESIGNED BY	DRAWN - L.G.C.	REVISED -	375			13-00174-00-DR	STARK	30	5	
DRAWN BY	CHECKED - S.W.M.	REVISED -	CONTRACT NO. 89673							
CHECKED BY	DATE - 04/09/15	REVISED -	ILLINOIS FED. AID PROJECT							
PLOT SCALE =		DATE	SCALE: 20H:5V	SHEET NO. 1 OF 2 SHEETS		STA. 1+00.00 TO STA. 7+00.00				



PLAN	REVISIONS	DATE
NO.	NO.	

PROFILE	REVISIONS	DATE
NO.	NO.	

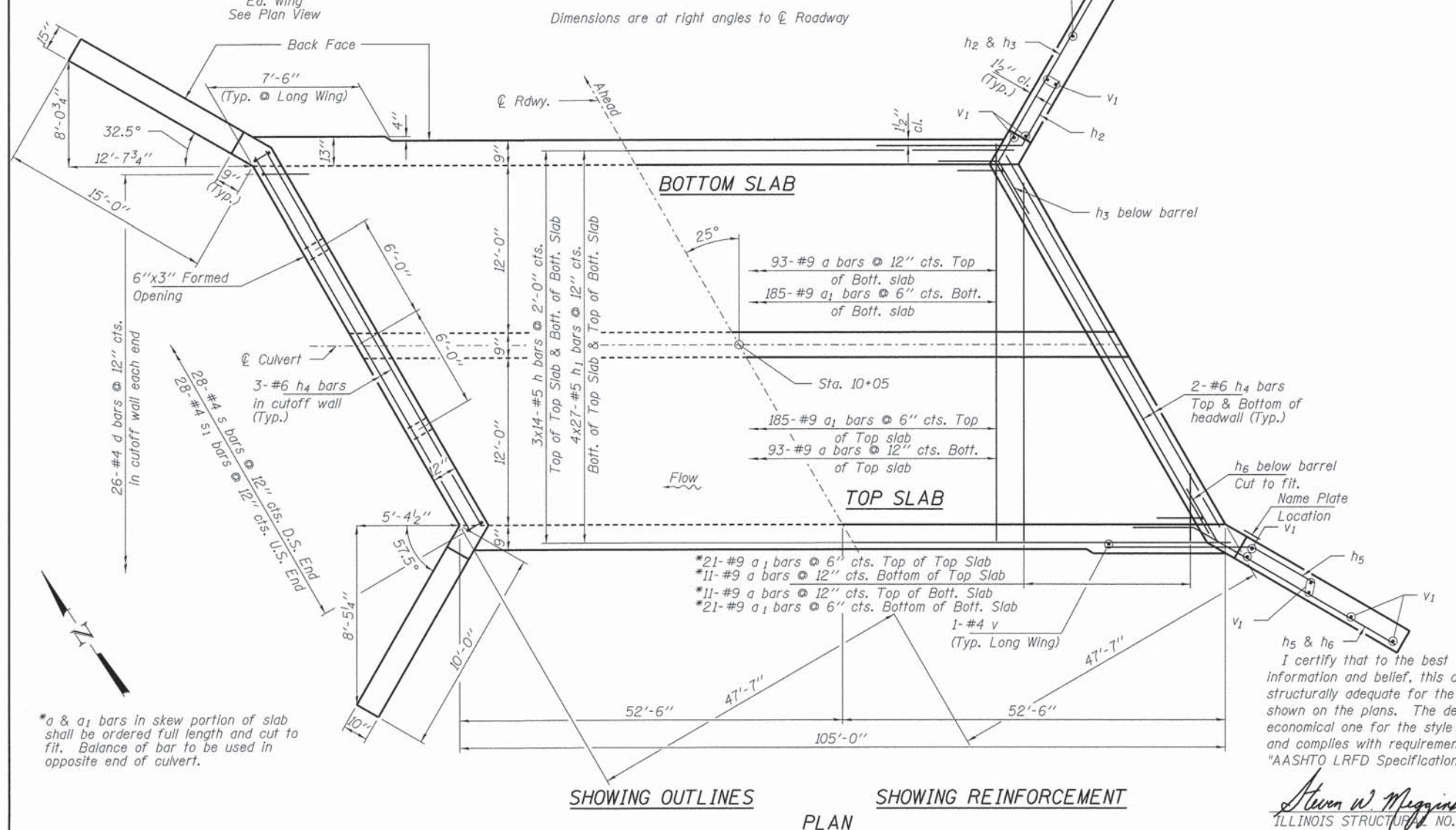
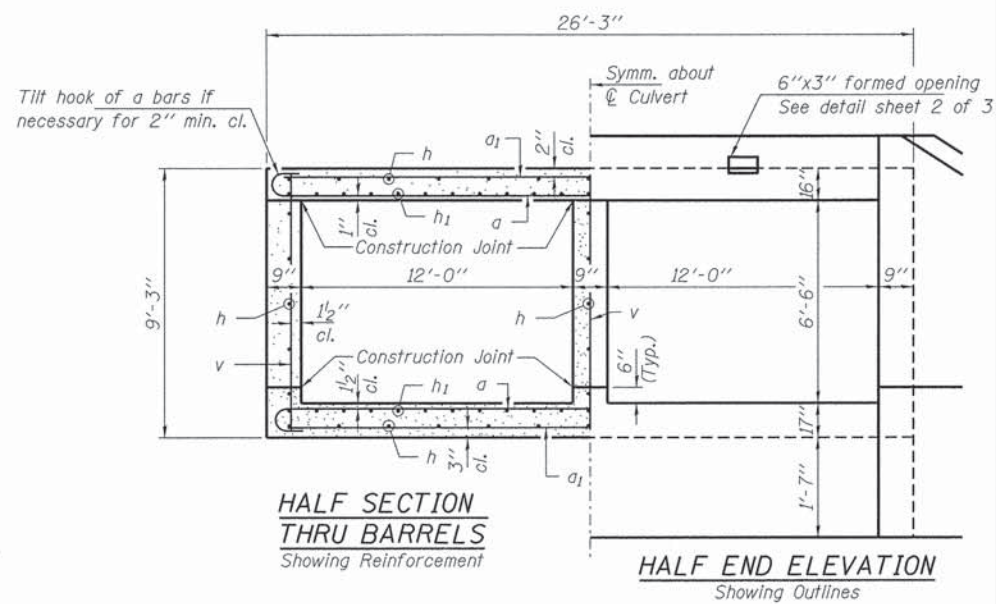
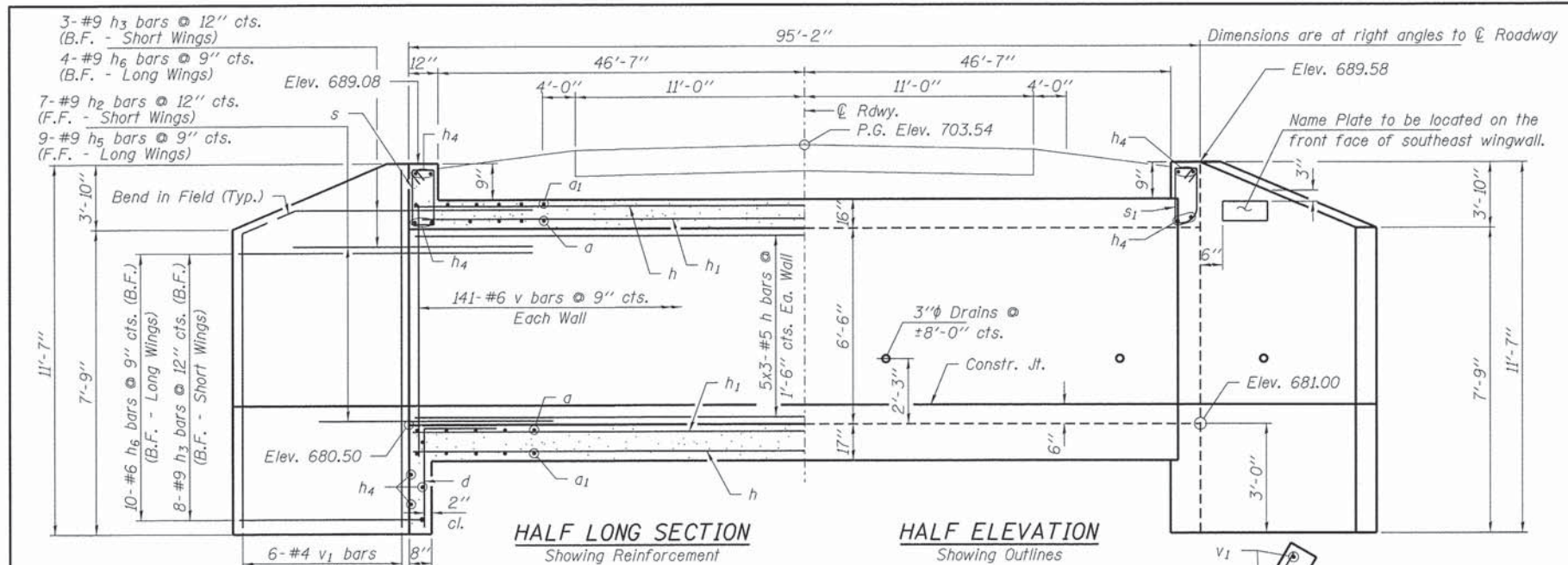
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3048 STEVENSON DRIVE, SUITE 201		CHECKED - S.W.M.	REVISED -
SPRINGFIELD, ILLINOIS 62703		DATE - 04/09/15	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM			
LS / PE / SE CORP.			
184-000889			

STATE OF ILLINOIS
STARK COUNTY HIGHWAY DEPARTMENT

PLAN & PROFILE

SCALE: 20H:5V SHEET NO. 2 OF 2 SHEETS STA. 7+00.00 TO STA. 13+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
375	13-00174-00-DR	STARK	30	6
CONTRACT NO. 89673			ILLINOIS FED. AID PROJECT	



INDEX OF STRUCTURE SHEETS

- 1-2. Culvert Details
- 3. Boring

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.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	208	#9	28'-6"	
a1	412	#9	26'-0"	
d	52	#4	4'-6"	
h	129	#5	36'-1"	
h1	216	#5	27'-6"	
h2	14	#9	8'-0"	
h3	22	#9	13'-2"	
h4	14	#6	28'-2"	
h5	18	#9	8'-0"	
h6	28	#9	19'-2"	
s	28	#4	5'-11"	
s1	28	#4	5'-9"	
v	425	#6	9'-0"	
v1	24	#4	11'-4"	

Structure Excavation	Cu. Yd.	2,300
Porous Granular Embankment	Ton	1,030
Stone Riprap, Class A5	Ton	340
Reinf. Bars, Epoxy Coated	Pounds	78,100
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	362.1
Porous Granular Backfill (Special)	Cu. Yd.	138

MIN. BAR LAP

#5 bars = 1'-8"

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."

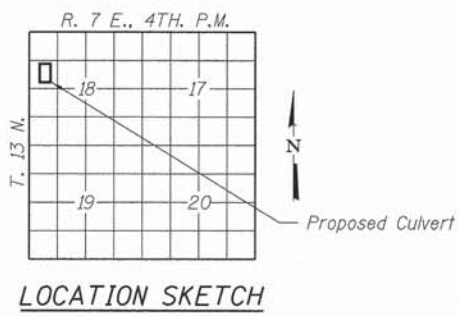
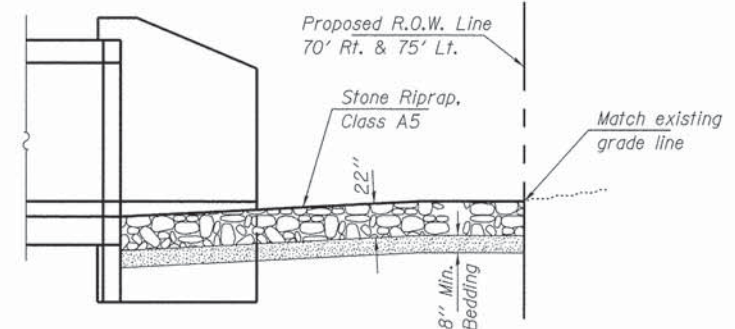
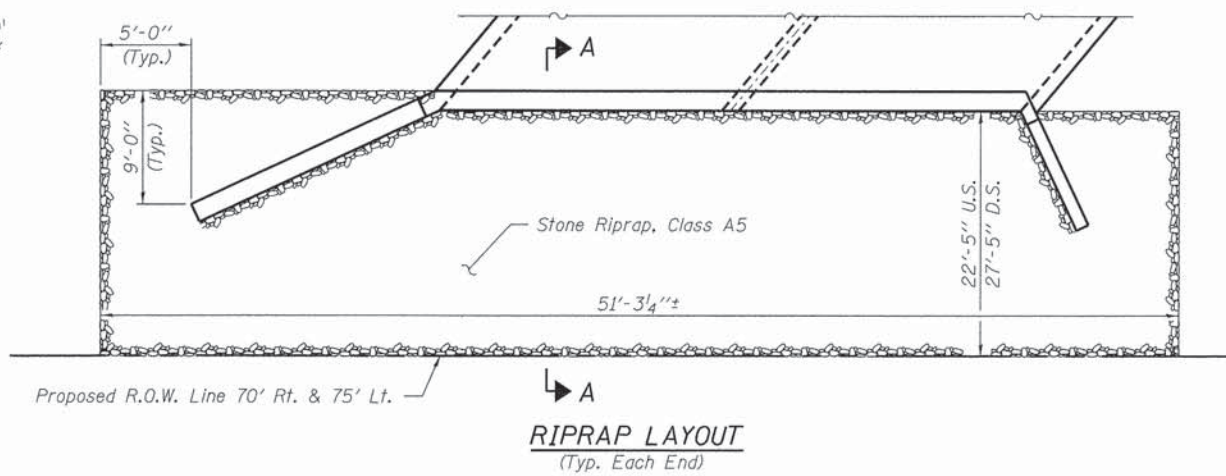
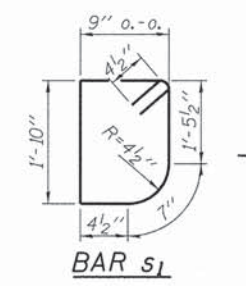
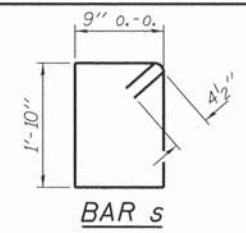
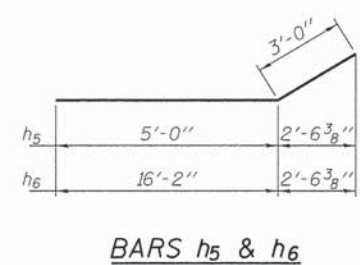
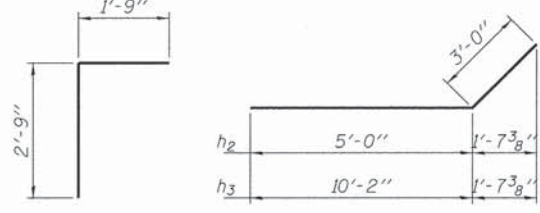
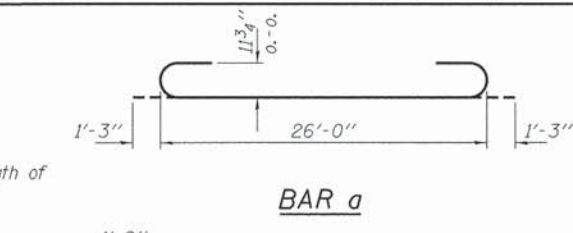
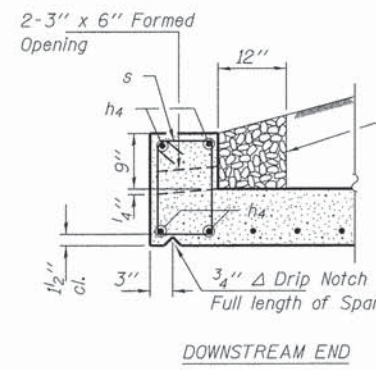
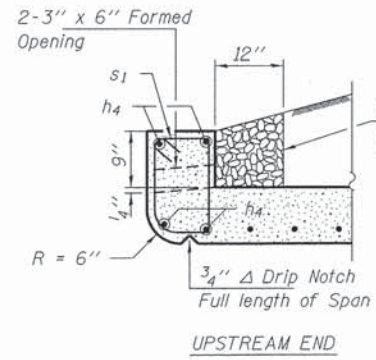
Steven W. Megginson 04/09/2015
 ILLINOIS STRUCTURAL ENGINEER NO. 081-6064 Expires 11-30-2016

FILE NAME = 140189-sht-culvert.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -
HAMPSON LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
3045 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62789		DRAWN - R.D.H.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184 000589		CHECKED - S.W.M.	REVISED -
PLOT SCALE =			
PLOT DATE = 4/9/2015			

STATE OF ILLINOIS
 STARK COUNTY HIGHWAY DEPARTMENT

CULVERT DETAILS
 STRUCTURE NO. 088-3411
 SHEET NO. 1 OF 3 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
375	13-00174-00-BR	STARK	30	7
				CONTRACT NO. 89673
ILLINOIS FED. AID PROJECT				



WATERWAY INFORMATION

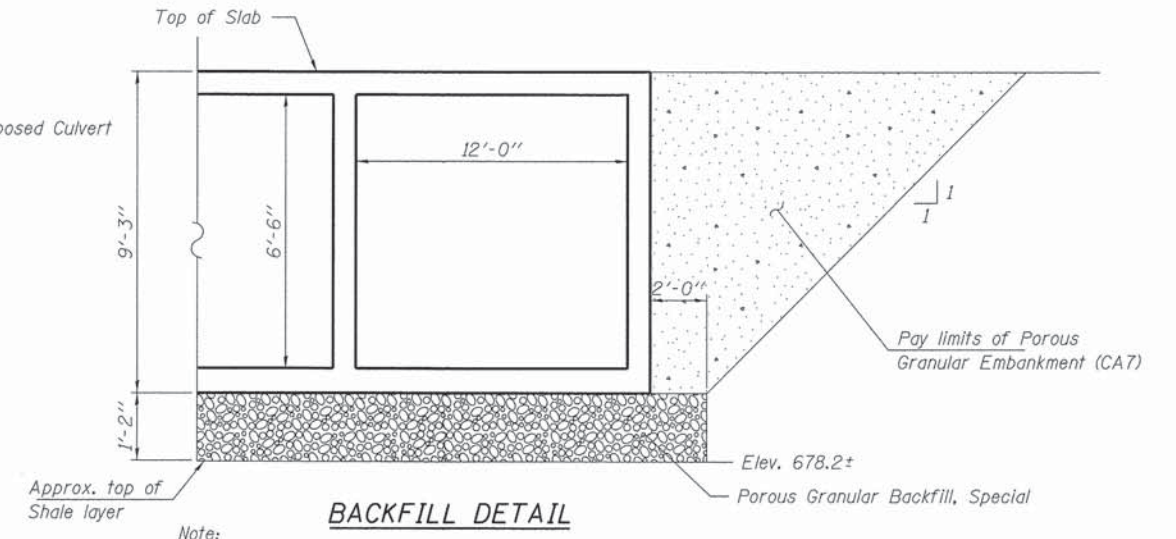
Drainage Area = 2.1 Sq. Mi. Existing Low Grade Elev. 696.6 @ Sta. 14+00 Proposed Low Grade Elev. 696.6 @ Sta. 14+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural Head - Ft.			Headwater El.	
			Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
	10	822	60	160	688.19	4.20	0.39	692.39	688.58
Design	20	1050	60	160	688.62	7.05	0.81	695.67	689.43
Base (Existing) Overtop	100	1600	60	160	689.38	9.14	2.26	698.52	691.64
Max. Calc.	500	2210	60	160	690.04	9.39	4.62	699.43	694.66

10 Year Velocity through Existing Bridge = 13.7 fps 10 Year Velocity through Proposed Bridge = 5.1 fps

BUILT 2011 BY STARK COUNTY SEC. 13-00174-00-BR C.H. 11 STR. NO. 088-3411 LOADING HL-93

NAME PLATE
See Std. 515001



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

FILE NAME = 140109-sh-culvert.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
3580 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761	PLOT SCALE =	DRAWN - R.D.H.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184 000959	PLOT DATE = 4/9/2015	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
STARK COUNTY HIGHWAY DEPARTMENT

CULVERT DETAILS
STRUCTURE NO. 088-3411
SHEET NO. 2 OF 3 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
375	13-00174-00-BR	STARK	30	8
CONTRACT NO. 89673			ILLINOIS FED. AID PROJECT	



SOIL BORING LOG

Date 12/4/14

ROUTE TR11 DESCRIPTION Penn Township Road District LOGGED BY Fehl
SECTION 13-00174-00-BR LOCATION Stark County, SEC. 18, TWP. T13N, RNG. R7E, 4th PM,
Latitude, Longitude
COUNTY Stark DRILLING METHOD Hollow-Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	D E L U M				Surface Water Elev.		D E L U M			
Station	DEPTH	BULGE	UNIFORMITY	MOISTURE	ft	ft	DEPTH	BULGE	UNIFORMITY	MOISTURE
BORING NO.	THS	(%)	(tsf)	(%)	Groundwater Elev.:		THS	(%)	(tsf)	(%)
10+00										
B-01										
10+10										
10.0 ft Right										
702.20										
Oil And CHIPS (5.5")	3									
CRUSHED LIMESTONE (11.5")	4									
Stiff, Dark Brown And Gray CLAY LOAM With Some Fine-Grained Gravel (Probable Fill)	3									
DD = 105 PCF	2	1.5	18							
	3	B								
	3									
DD = 102 PCF	2									
	3	1.4	20							
	4	B								
	3									
Stiff, Gray And Brown CLAY LOAM (Probable Fill)	3									
DD = 104 PCD	3	1.5	14							
	3	B								
	3									
Stiff, Light Brown And Gray SILTY CLAY LOAM With Some Fine-Grained Gravel (Probable Fill)	3									
DD = 100 PCF	3	1.2	15							
	3	B								
	3									
Medium, Gray And Brown CLAY LOAM	2									
DD = 97 PCF	2	0.7	19							
	2	B								
	2									
DD = 97 PCF	2	0.5	18							
	3	B								
	3									
Stiff, Dark Brown SILTY CLAY LOAM With Trace Of Organic Matter	2									
DD = 93 PCF	3	1.3	25							
	4	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)



SOIL BORING LOG

Date 12/4/14

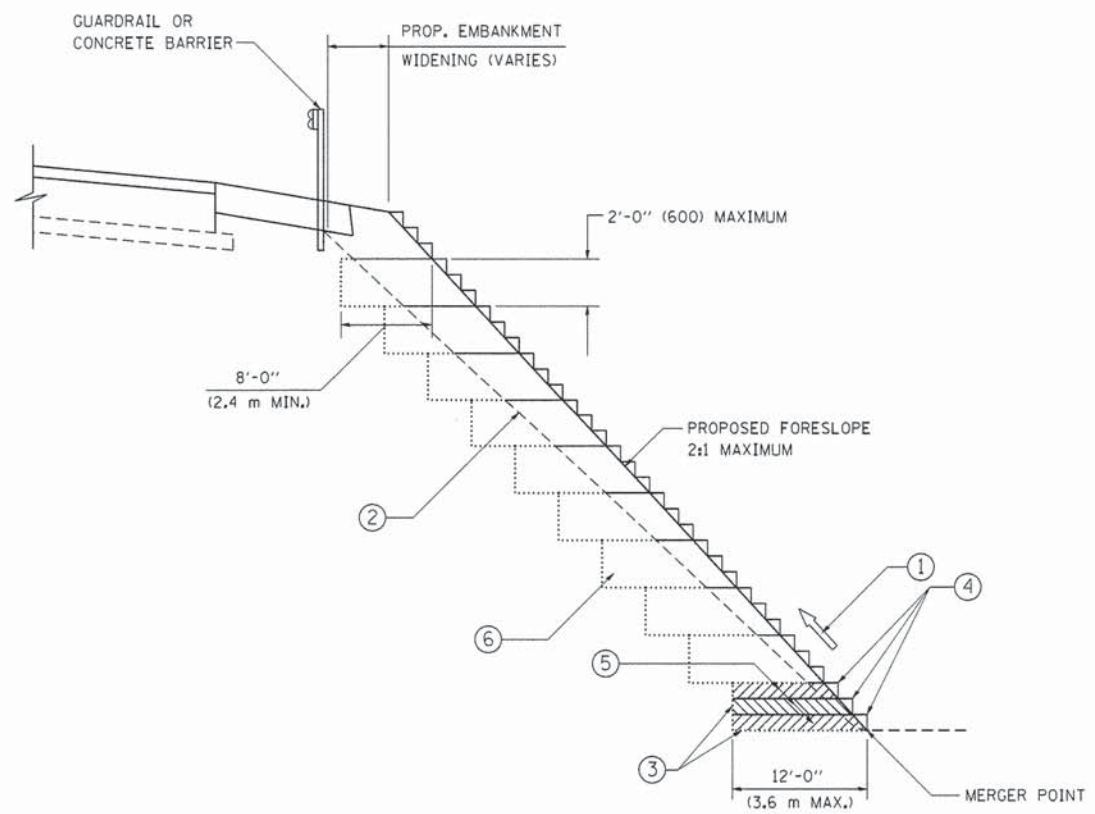
ROUTE TR11 DESCRIPTION Penn Township Road District LOGGED BY Fehl
SECTION 13-00174-00-BR LOCATION Stark County, SEC. 18, TWP. T13N, RNG. R7E, 4th PM,
Latitude, Longitude
COUNTY Stark DRILLING METHOD Hollow-Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	D E L U M				Surface Water Elev.		D E L U M			
Station	DEPTH	BULGE	UNIFORMITY	MOISTURE	ft	ft	DEPTH	BULGE	UNIFORMITY	MOISTURE
BORING NO.	THS	(%)	(tsf)	(%)	Groundwater Elev.:		THS	(%)	(tsf)	(%)
10+00										
B-01										
10+10										
10.0 ft Right										
702.20										
Hard, Gray CLAY SHALE	105/8"									
(continued)	661.20									
End of Boring										

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)

BORING



TYPICAL BENCHING DETAIL
FOR EMBANKMENT

NOTES:

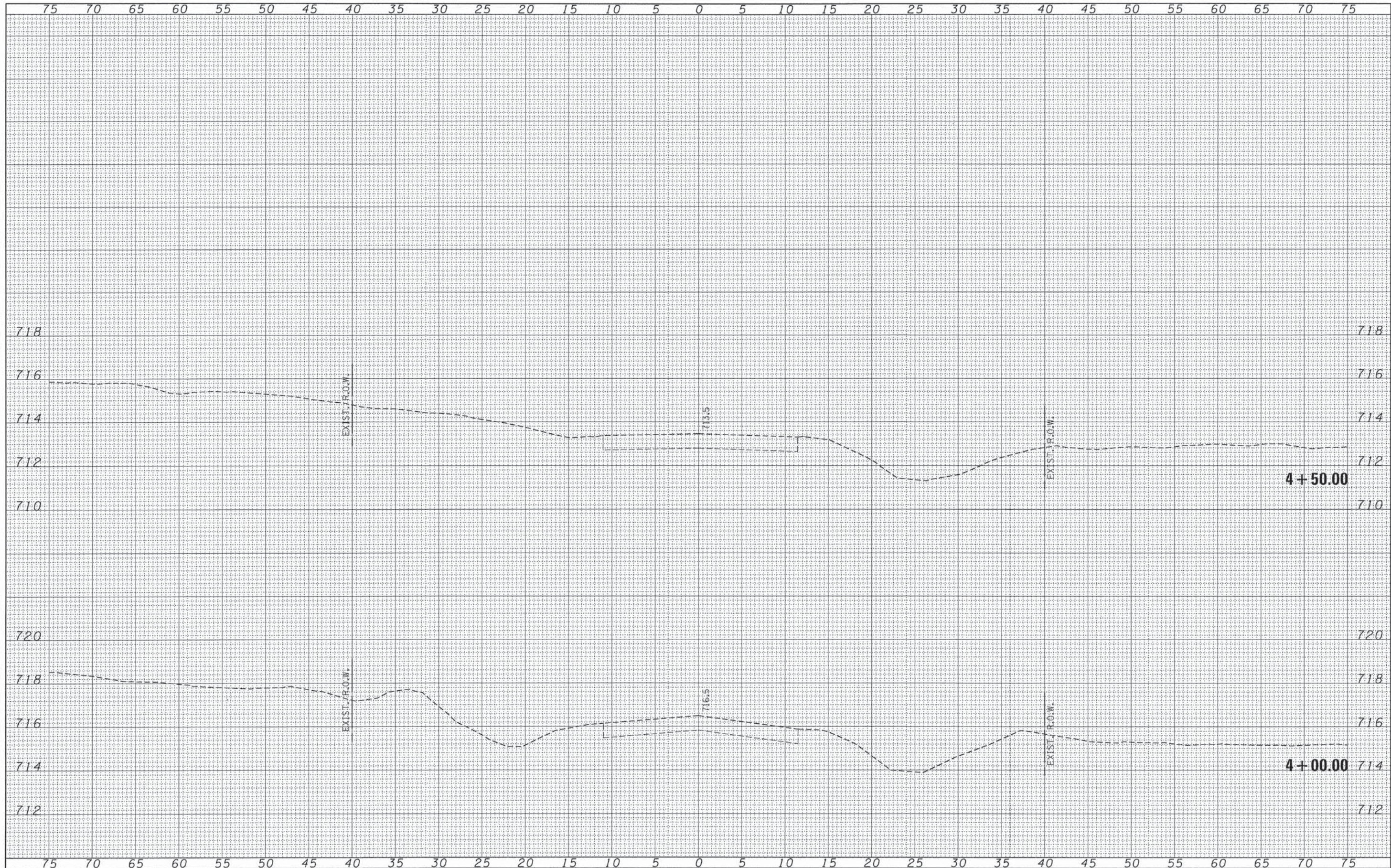
- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

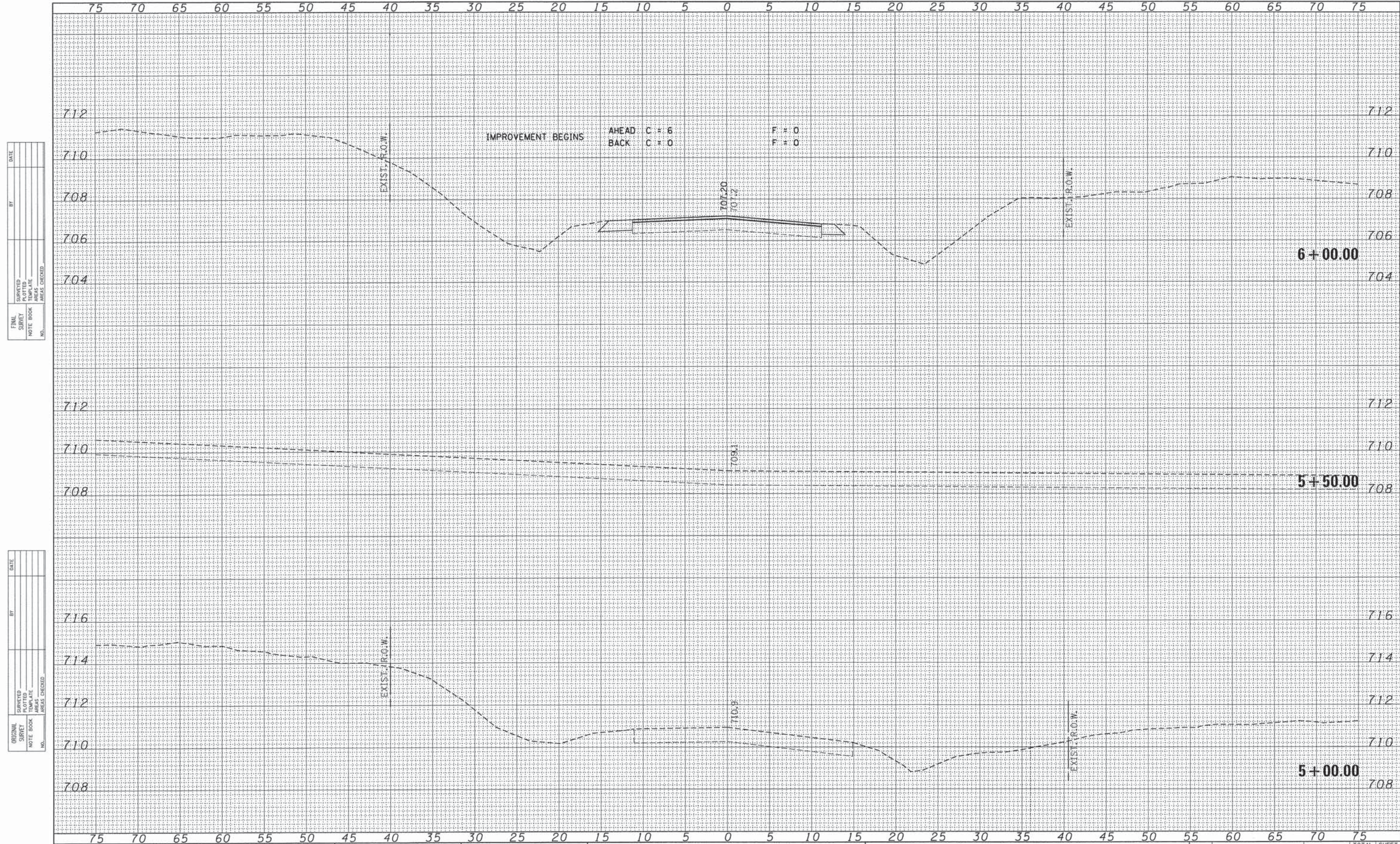
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HAMPTON, LENZINI AND RENWICK, INC. 599 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62769		DRAWN - R.D.H.	REVISED -		375	13-00174-00-DR	STARK	30	10	CONTRACT NO. 89673	
ILINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.002959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
	PLOT DATE = 4/9/2015	DATE - 04/09/15	REVISED -								

DATE	
BY	
FINAL SURVEY	
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS	
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BY	
ORIGINAL SURVEY	
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS	
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FILE NAME = 148109-ahf-axs.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT SCALE: 5H:2V SHEET NO. 1 OF 20 SHEETS STA. 4+00.00 TO STA. 4+50.00	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		375	13-00174-00-DR	STARK	30	11
HLR ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.000899	PLOT DATE = 4/9/2015	CHECKED - S.W.M.	REVISED -		CONTRACT NO. 89673				
		DATE - 04/09/15	REVISED -		ILLINOIS FED. AID PROJECT				



DATE _____
BY _____

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SURVEYED _____
NOTE BOOK _____
NO. _____

TEMPLATE _____
AREAS _____
AREAS CHECKED _____

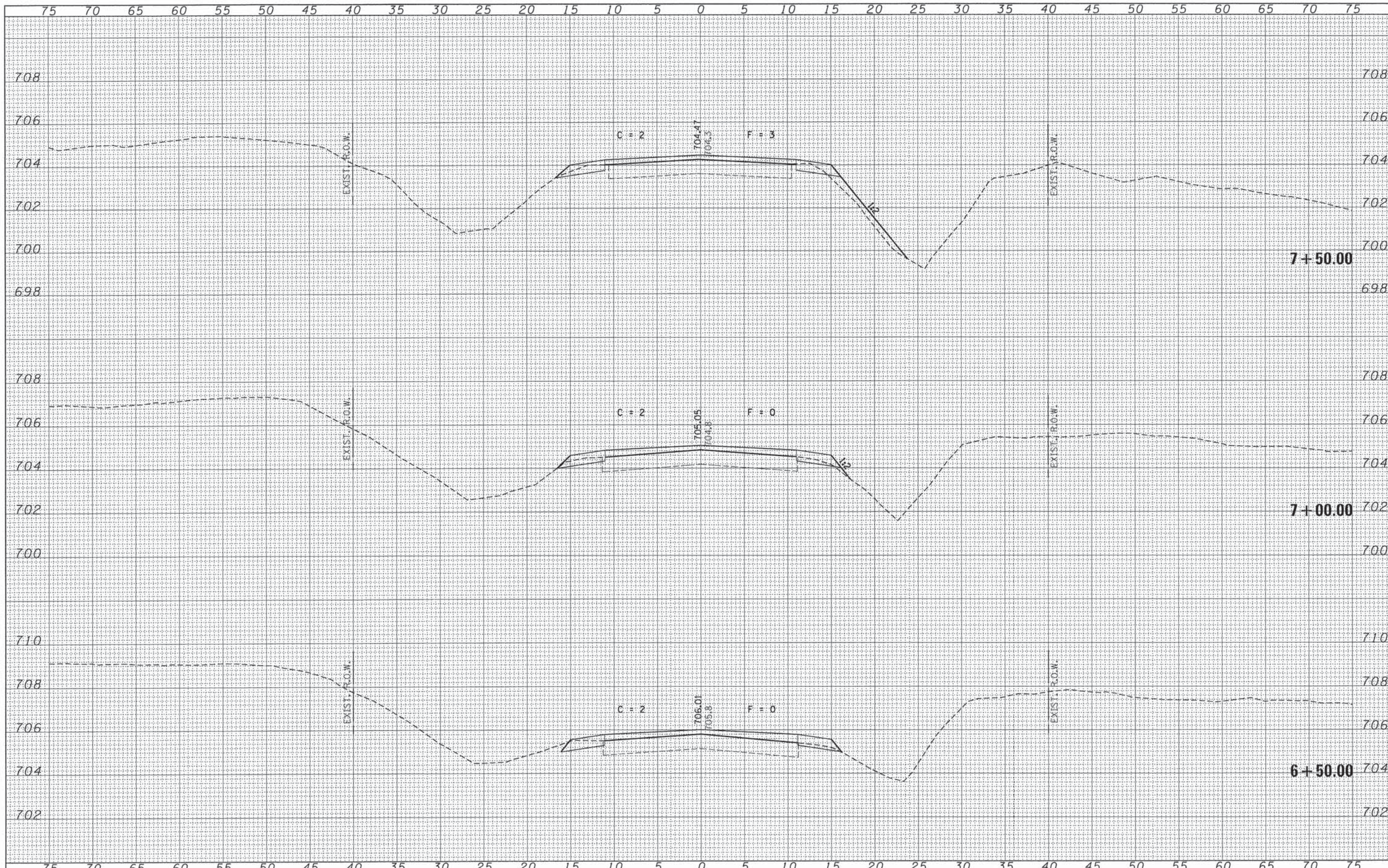
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BY _____

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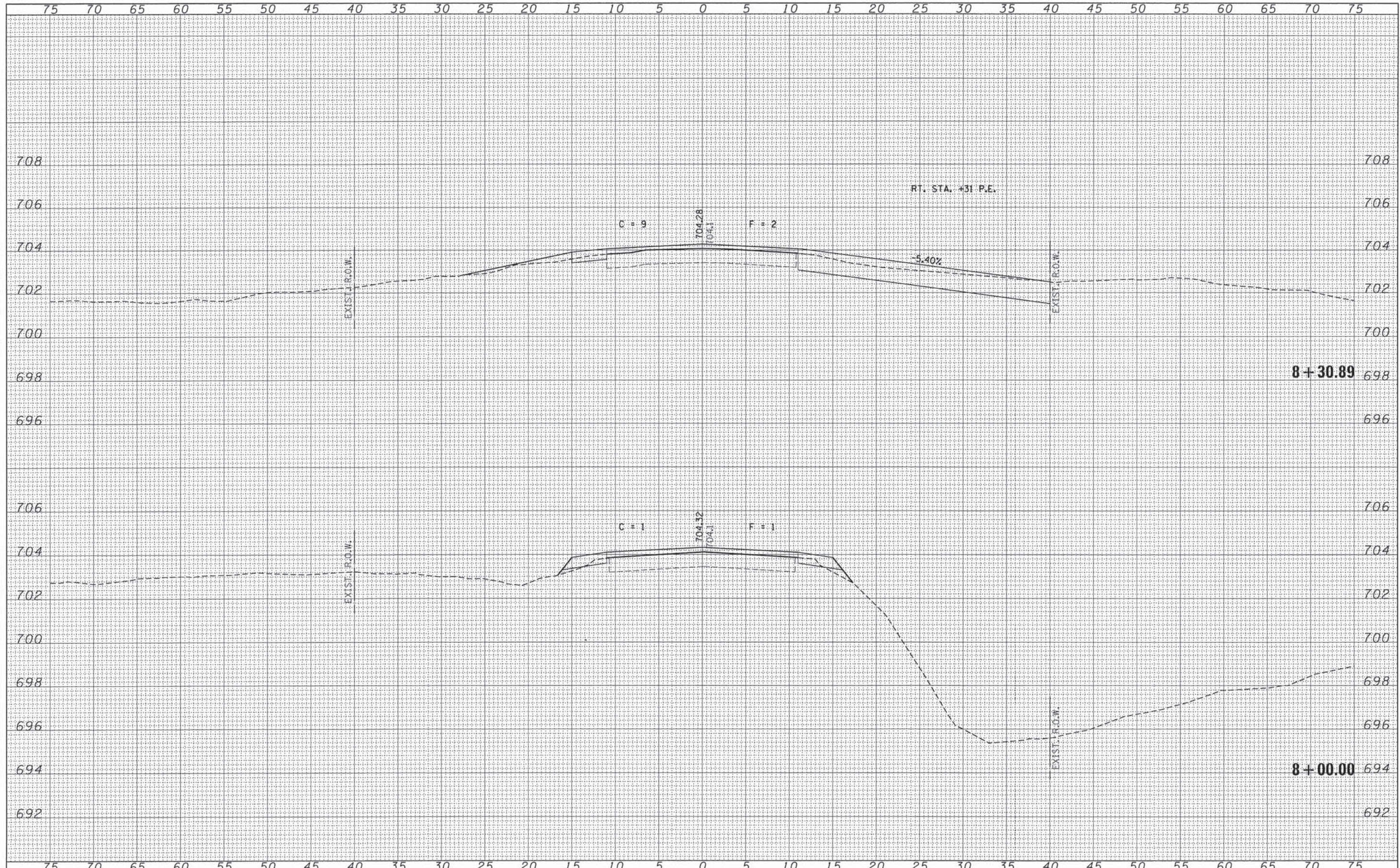
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HAMPTON, LENZINI AND RENWICK, INC. 3095 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00889	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		SCALE: 5H:2V	SHEET NO. 3 OF 20 SHEETS	STA. 6+50.00 TO STA. 7+50.00	375	13-00174-00-DR	STARK	30	13
	PLOT DATE = 4/9/2015	CHECKED - S.W.M.	REVISED -									
		DATE - 04/09/15	REVISED -									
											CONTRACT NO. 89673	
											ILLINOIS FED. AID PROJECT	

DATE	
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FINAL SURVEY	
SURVEYED	
NOTE BOOK	
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ORIGINAL SURVEY	
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NOTE BOOK	
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FILE NAME = 140109-shr-axsvdgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -	375	13-00174-00-DR	STARK	30	14
308 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761		CHECKED - S.W.M.	REVISED -	CONTRACT NO. 89673				
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00599		DATE - 04/09/15	REVISED -	ILLINOIS FED. AID PROJECT				

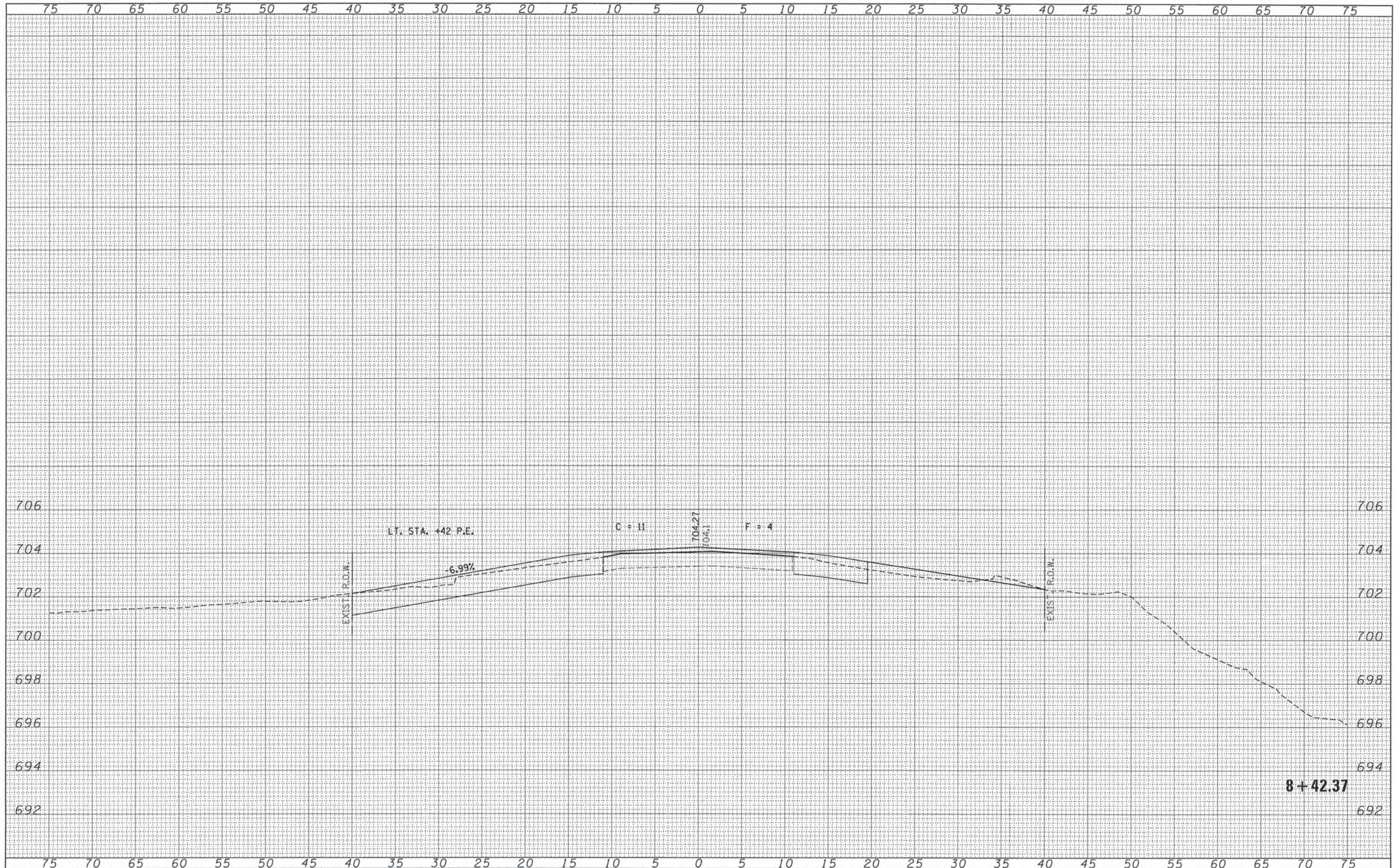
STATE OF ILLINOIS
STARK COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 4 OF 20 SHEETS STA. 8+00.00 TO STA. 8+30.89

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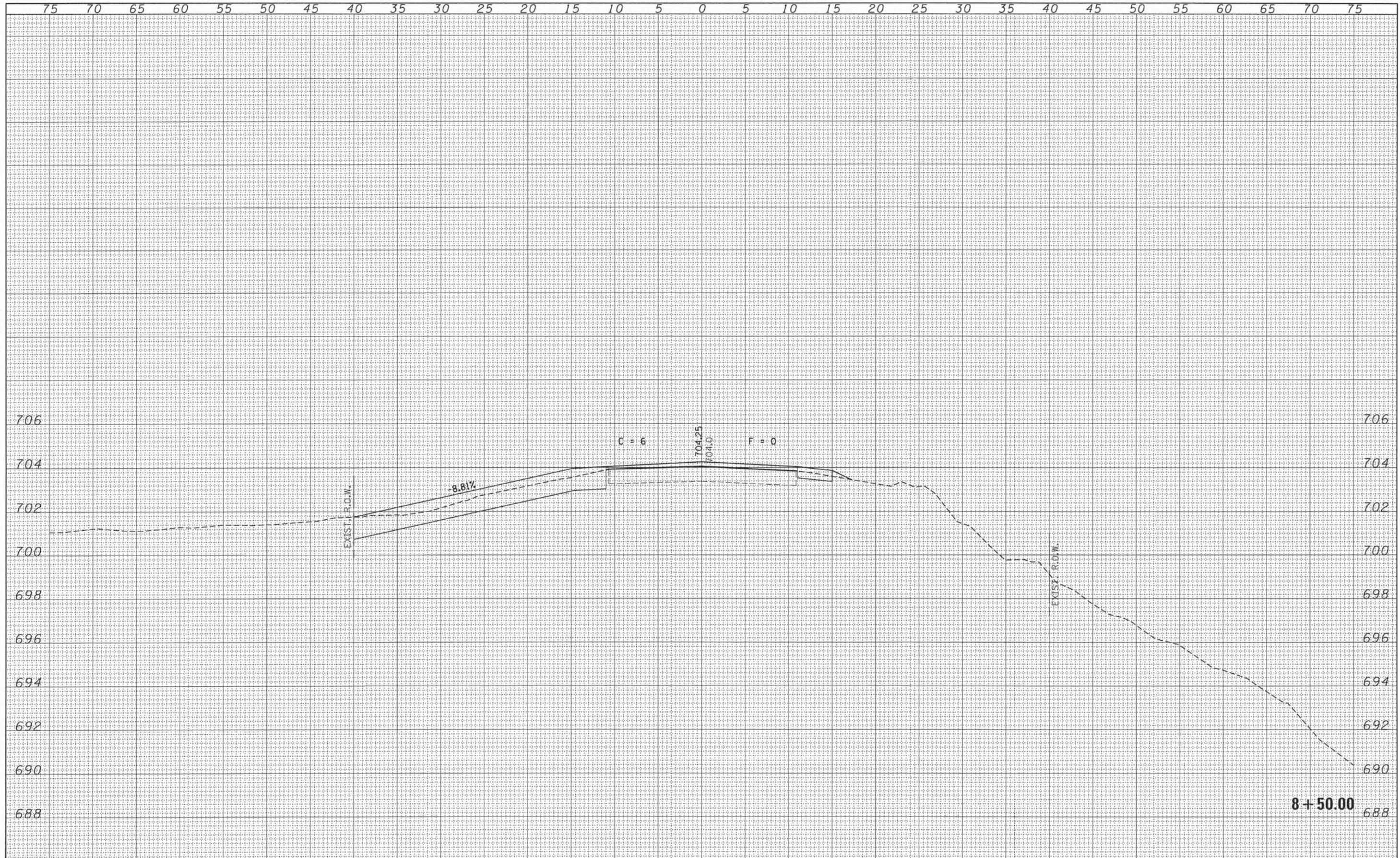
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HAMPTON, LENZINI AND RENWICK, INC. 3038 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62708	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		375	13-00174-00-DR	STARK	30	15
ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.003939	PLOT DATE = 4/9/2015	CHECKED - S.W.M.	REVISED -		CONTRACT NO. 89673				
		DATE - 04/09/15	REVISED -		ILLINOIS FED. AID PROJECT				

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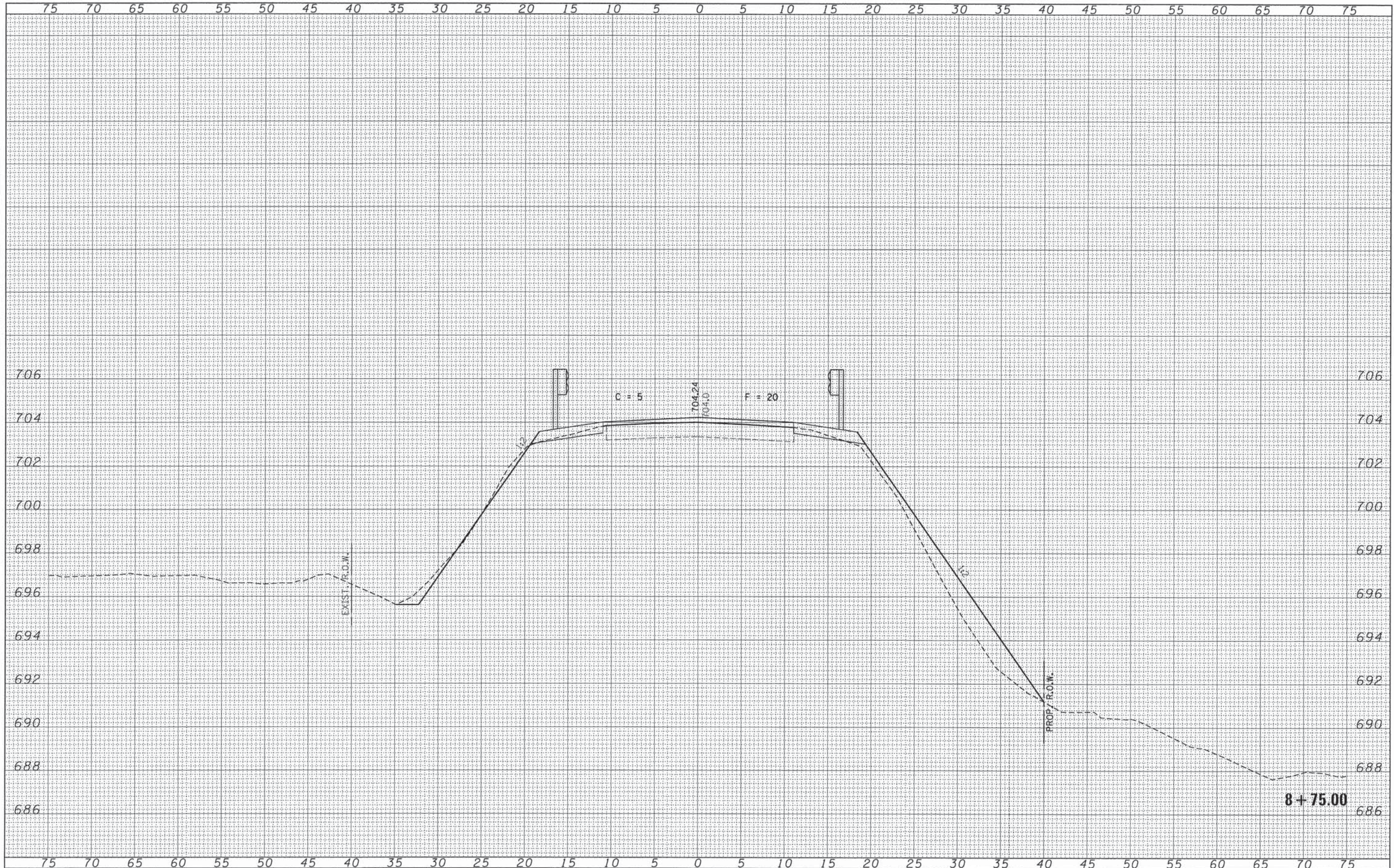
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HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62709		DRAWN - L.G.C.	REVISED -	375	13-00174-00-DR	STARK	30	16
PLOT SCALE =		CHECKED - S.W.M.	REVISED -	SCALE: 5H:2V				SHEET NO. 6 OF 20 SHEETS
PLOT DATE = 4/9/2015		DATE - 04/09/15	REVISED -	STA. 8+50.00 TO STA. 8+50.00				CONTRACT NO. 89673
STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT				STATION CROSS SECTIONS				
ILLINOIS FED. AID PROJECT								

DATE	
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SURVEYED	
NOTE BOOK	
TEMPLATE	
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AREAS CHECKED	

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ORIGINAL SURVEY	
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NOTE BOOK	
TEMPLATE	
AREAS	
AREAS CHECKED	



FILE NAME = 148109-sht-sss.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 388 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62702
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000999

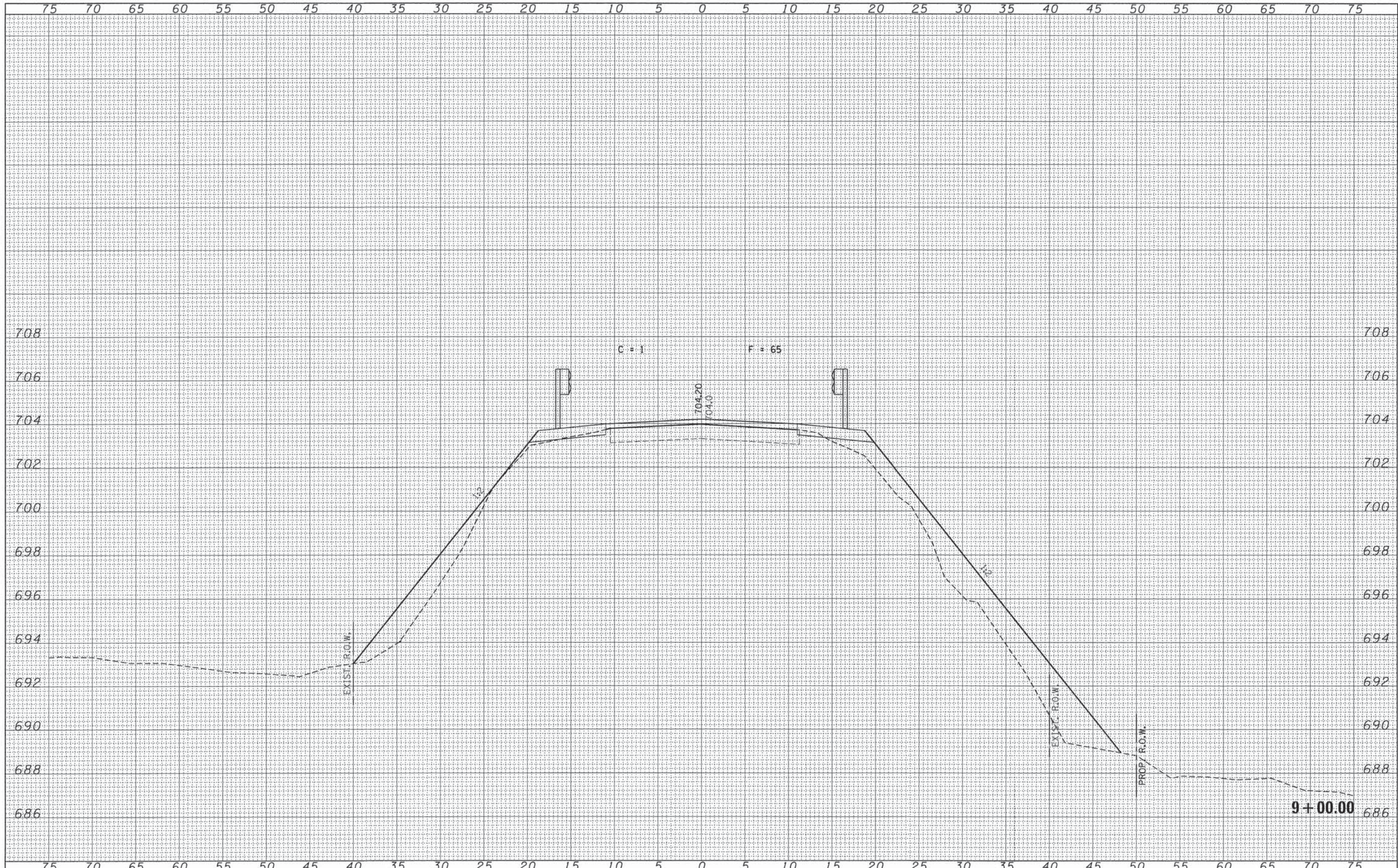
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	CHECKED - S.W.M.	REVISED -
	DATE - 04/09/15	REVISED -
PLOT SCALE =		
PLOT DATE = 4/9/2015		

STATE OF ILLINOIS
 STARK COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 7 OF 20 SHEETS STA. 8+75.00 TO STA. 8+75.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
375	13-00174-00-DR	STARK	30	17
			CONTRACT NO. 89673	
ILLINOIS FED. AID PROJECT				



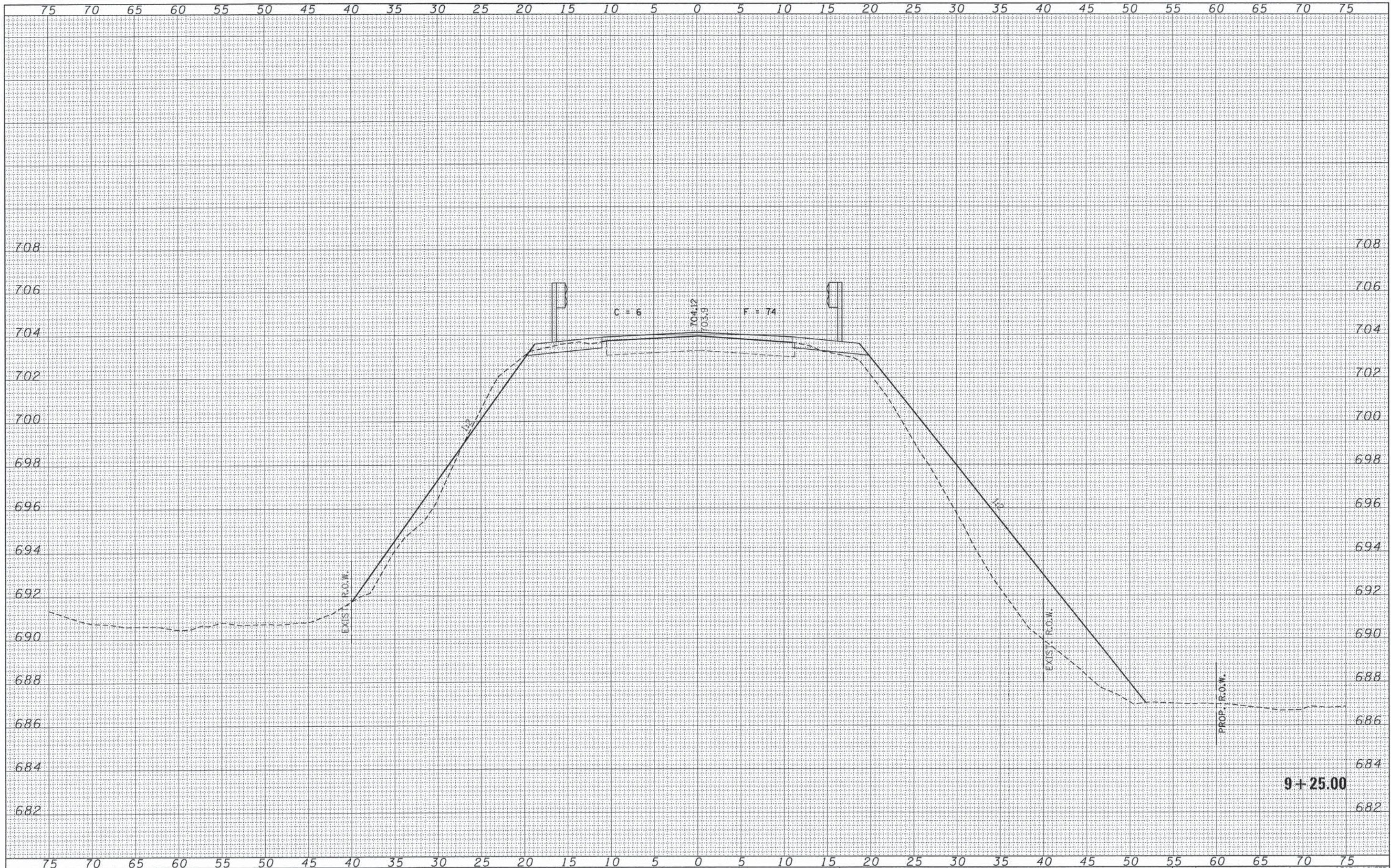
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FILE NAME = 140109-shr-aaa.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -	375	13-00174-00-DR	STARK	30	18
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -	SCALE: 5H:2V				SHEET NO. 8 OF 20 SHEETS
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00889		DATE - 04/09/15	REVISED -	STA. 9+00.00 TO STA. 9+00.00				CONTRACT NO. 89673
STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT				STATION CROSS SECTIONS				
ILLINOIS FED. AID PROJECT								

DATE	BY
FINAL SURVEY	
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NOTE BOOK	
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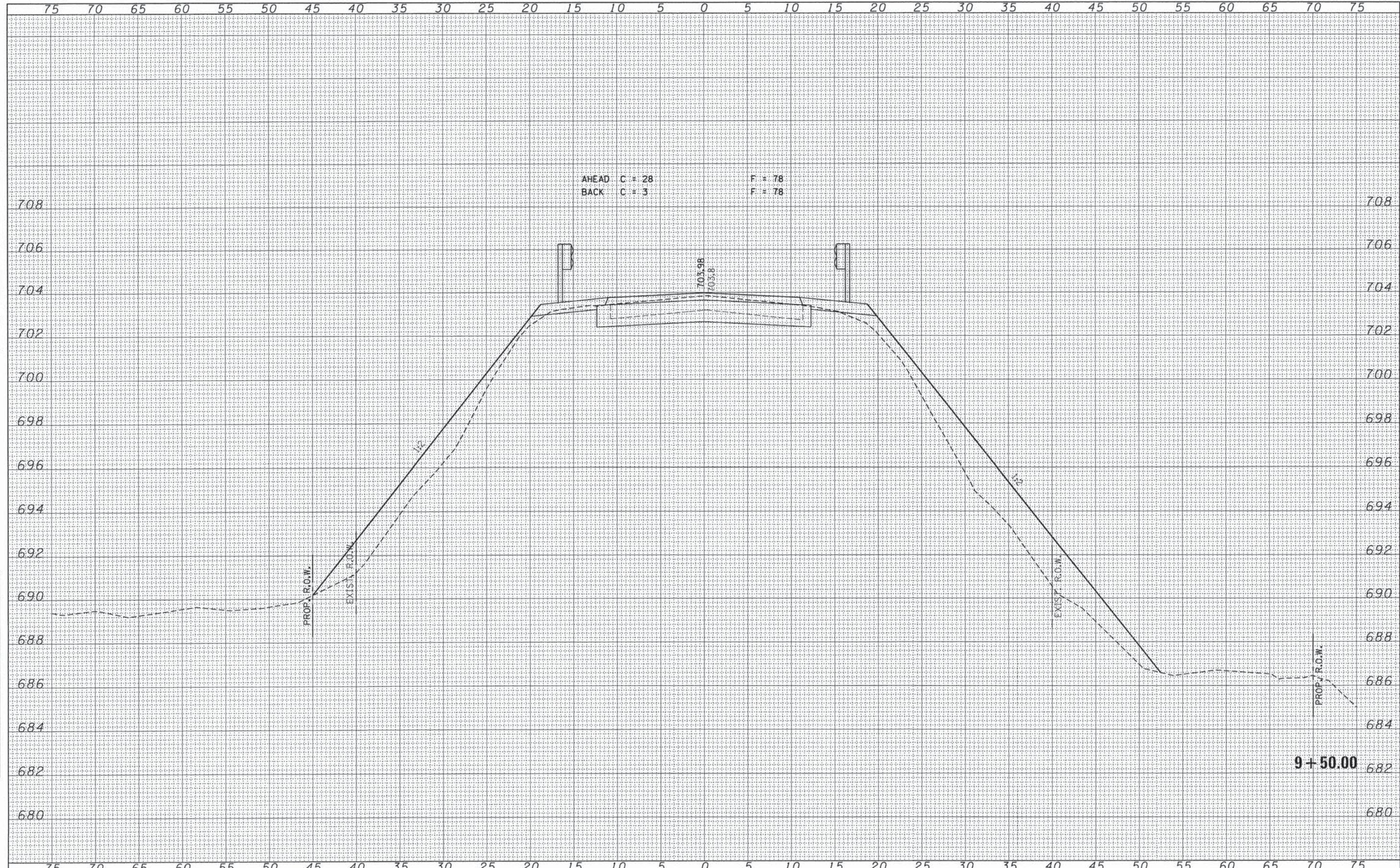
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FILE NAME = 140189-shr-ans.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 104 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		375	13-00174-00-DR	STARK	30	19	CONTRACT NO. 89673		
ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184-00059	PLOT DATE = 4/9/2015	DATE - 04/09/15	REVISED -		SCALE: 5H:2V	SHEET NO. 9 OF 20 SHEETS	STA. 9+25.00 TO STA. 9+25.00	ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
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NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

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ORIGINAL SURVEY	
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
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FILE NAME = 140109-shr-axa.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 305 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761		DRAWN - L.G.C.	REVISED -	375	13-00174-00-DR	STARK	30	20
PLOT SCALE =		CHECKED - S.W.M.	REVISED -	CONTRACT NO. 89673				
PLOT DATE = 4/9/2015		DATE - 04/09/15	REVISED -	ILLINOIS FED. AID PROJECT				

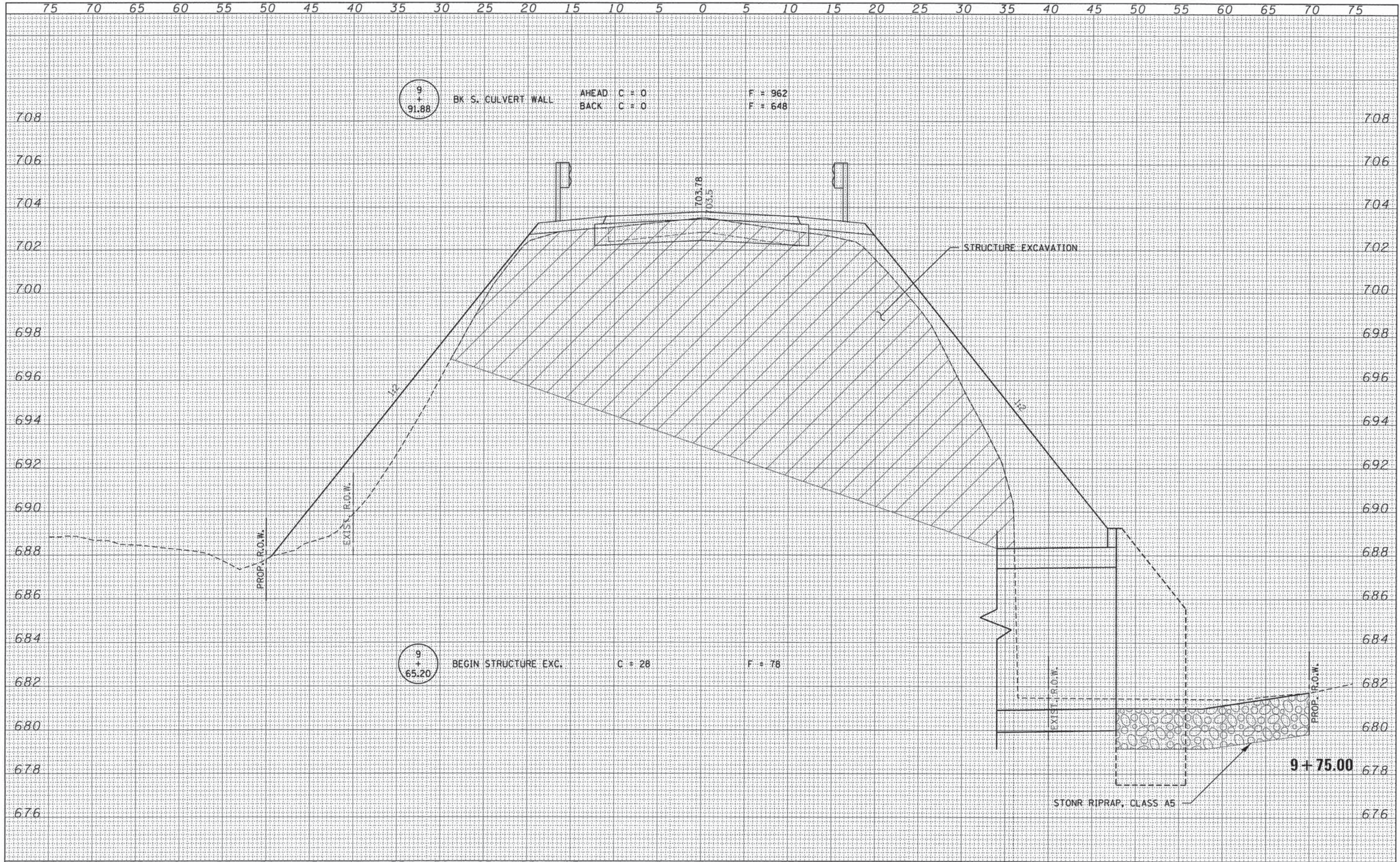
STATE OF ILLINOIS
STARK COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 10 OF 20 SHEETS STA. 9+50.00 TO STA. 9+50.00

DATE	
BY	
FINAL SURVEY	
SURVEYED	
NOTE BOOK	
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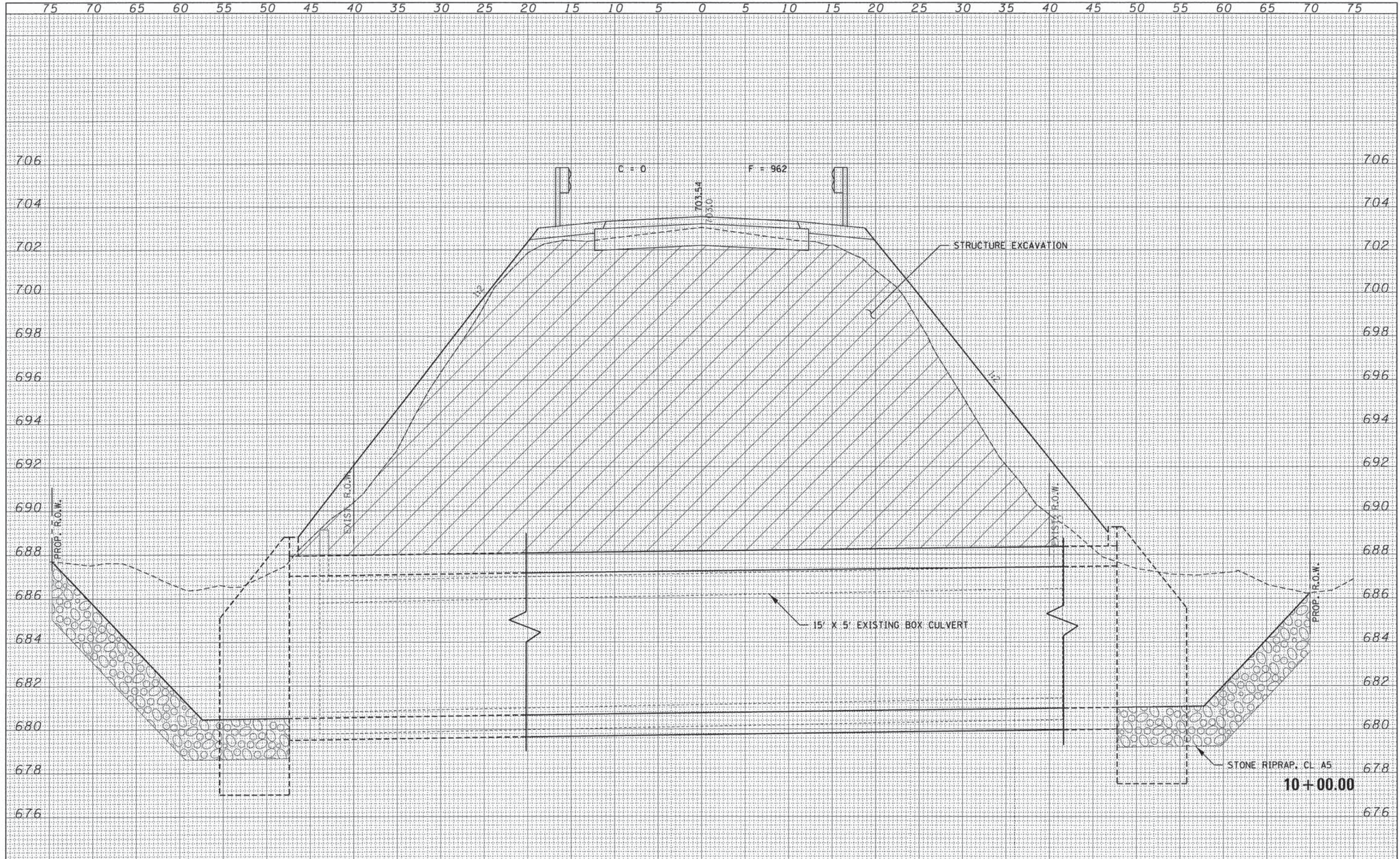
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NOTE BOOK	
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HAMPTON, LENZINI AND RENWICK, INC. 398 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62709	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		375	13-00174-00-DR	STARK	30	21			
HLR ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00089	PLOT DATE = 4/9/2015	CHECKED - S.W.M.	REVISED -		SCALE: 5H:2V	SHEET NO. 11 OF 20 SHEETS	STA. 9+75.00 TO STA. 9+75.00	CONTRACT NO. 89673				
		DATE - 04/09/15	REVISED -					ILLINOIS FED. AID PROJECT				

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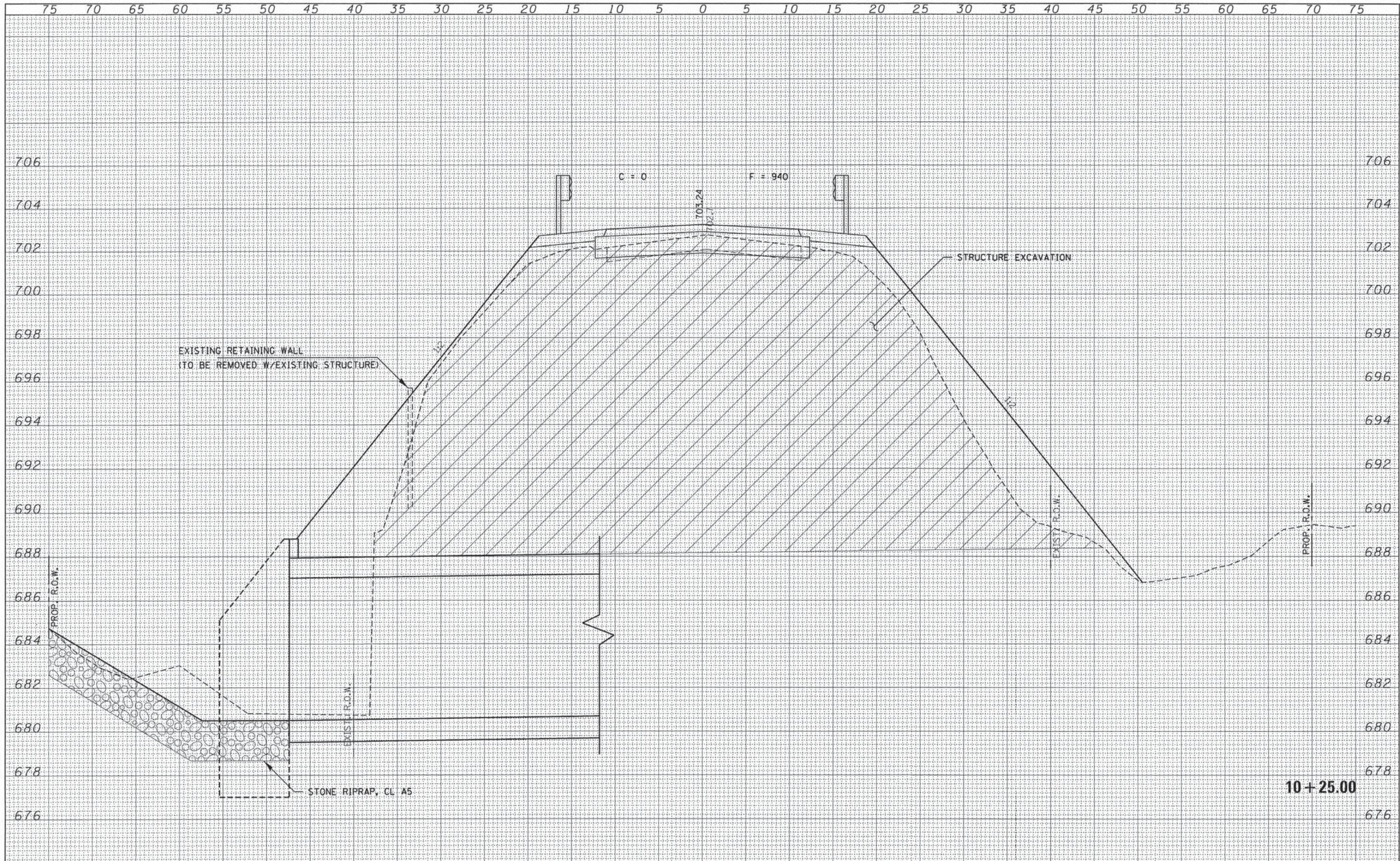
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HAMPTON, LENZINI AND RENWICK, INC. 200 N. EMBURY DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62760	PLOT SCALE =	DRAWN - L.G.C.	REVISED -	SCALE: 5H:2V		SHEET NO. 12 OF 20 SHEETS		375	13-00174-00-OR	STARK	30	22
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00099	PLOT DATE = 4/9/2015	CHECKED - S.W.M.	REVISED -	STA. 10+00.00 TO STA. 10+00.00		CONTRACT NO. 89673		ILLINOIS FED. AID PROJECT				
		DATE - 04/09/15	REVISED -									

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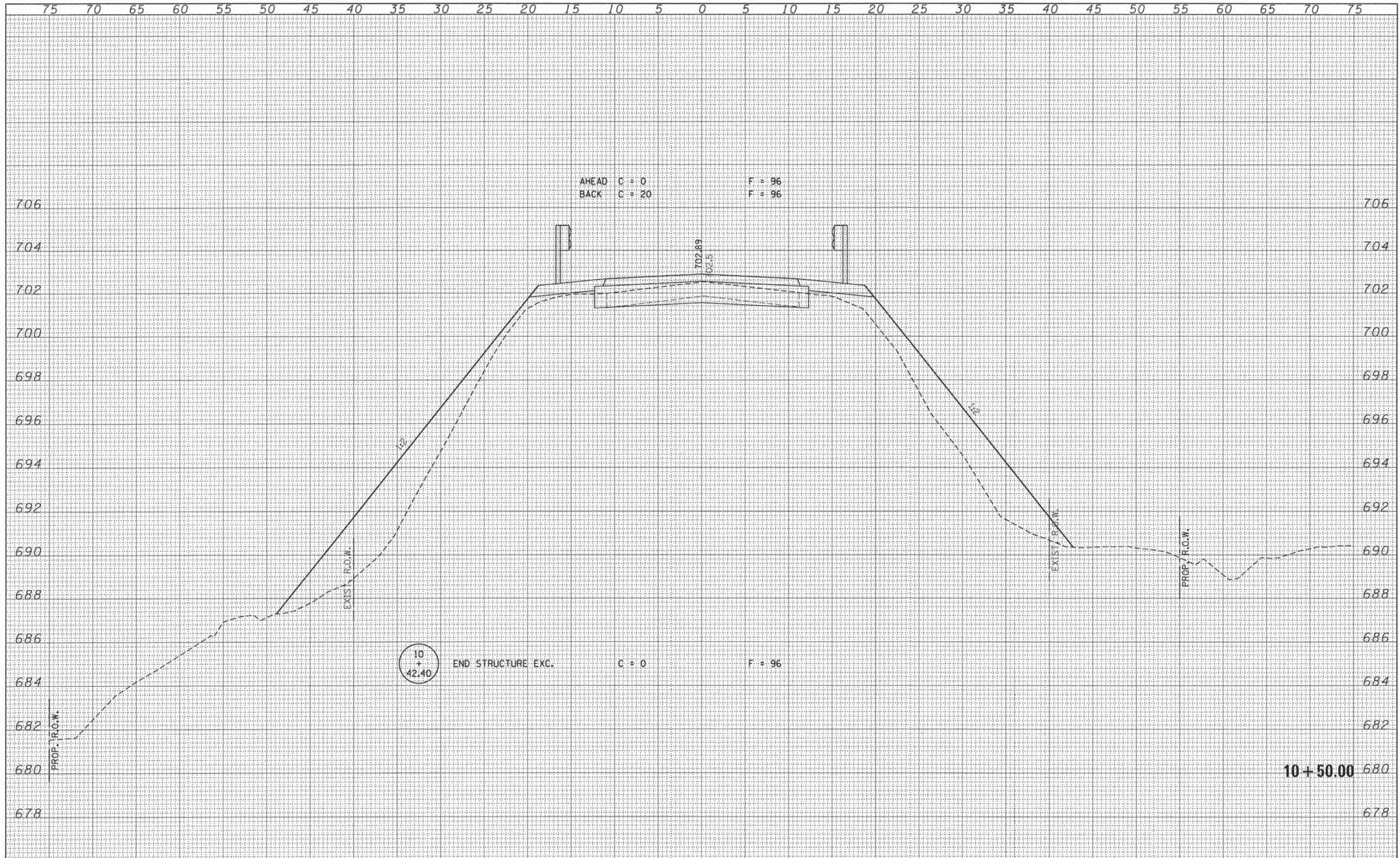
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -		375	13-00174-00-DR	STARK	30	23	CONTRACT NO. 89673	
3888 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62788	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		SCALE: 5H:2V	SHEET NO. 13 OF 20 SHEETS	STA. 10+25.00 TO STA. 10+25.00	ILLINOIS FED. AID PROJECT			
ILLINOIS PROFESSIONAL DESIGN FIRM 18 / PE / DE CORP. 184 00089	PLOT DATE = 4/9/2015	DATE - 04/09/15	REVISED -								

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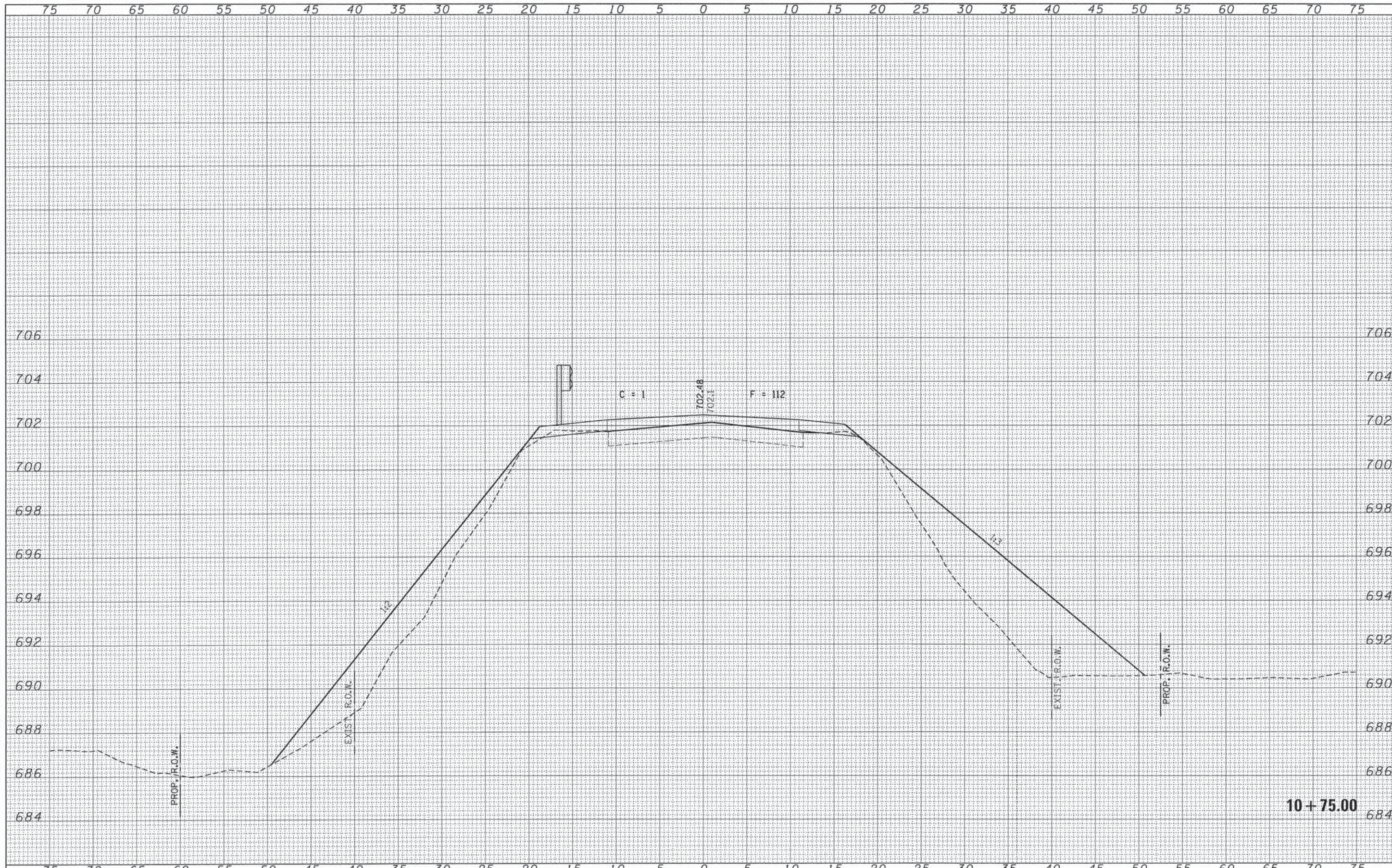
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62709 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000959				375	13-00174-00-DR	STARK	30	24
PLOT SCALE = PLOT DATE = 4/9/2015				DRAWN - L.G.C. CHECKED - S.W.M. DATE - 04/09/15		REVISED - REVISED - REVISED -		CONTRACT NO. 89673 ILLINOIS FED. AID PROJECT
STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT				STATION CROSS SECTIONS				
				SCALE: 5H:2V	SHEET NO. 14 OF 20 SHEETS	STA. 10+50.00	TO STA. 10+50.00	

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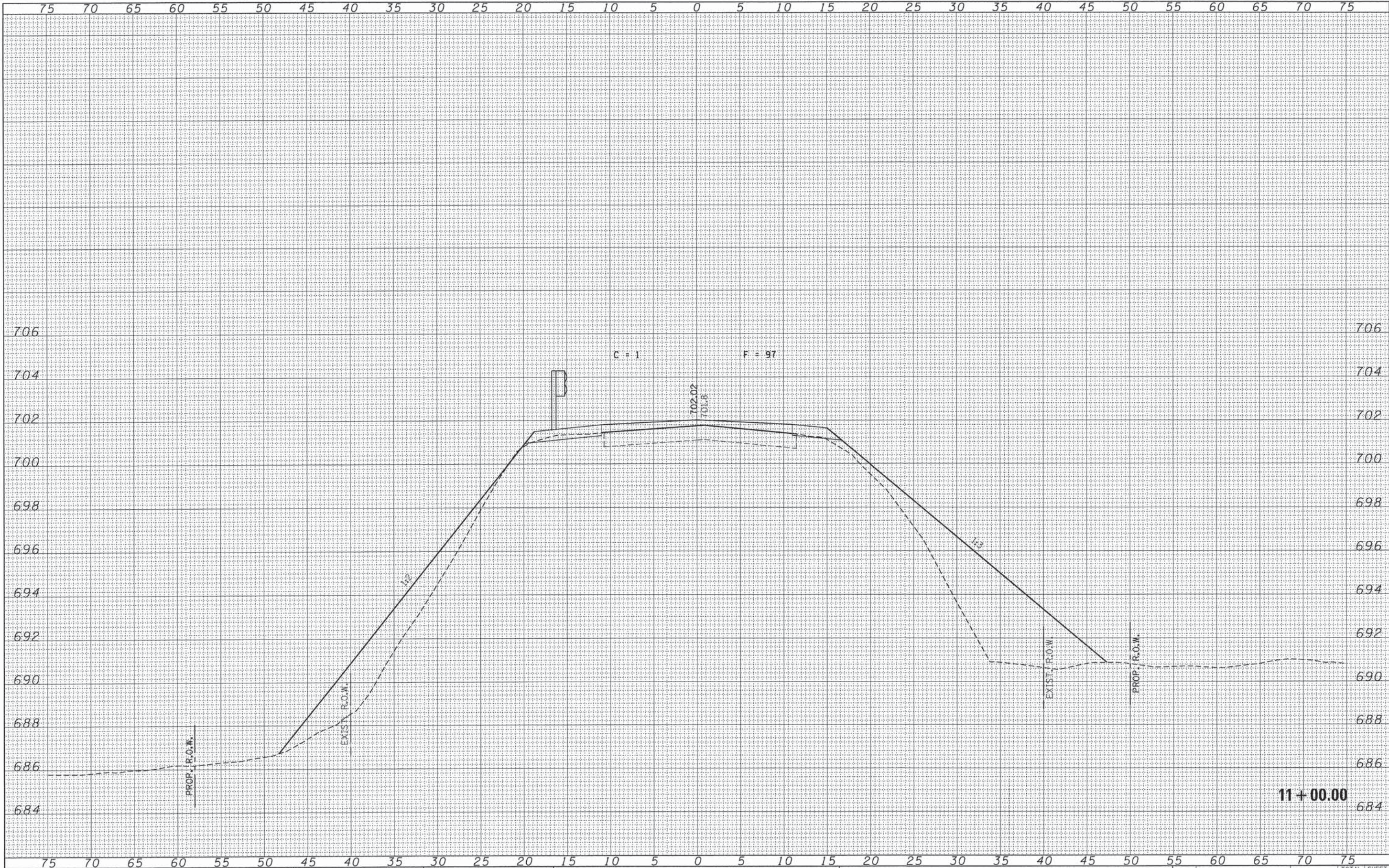
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HAMPTON, LENZINI AND RENWICK, INC. 3045 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00993	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		375	13-00174-00-DR	STARK	30	25
	PLOT DATE = 4/9/2015	CHECKED - S.W.M.	REVISED -		CONTRACT NO. 89673				
		DATE - 04/09/15	REVISED -		ILLINOIS FED. AID PROJECT				

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FILE NAME = 142107-9ht-axs.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 308 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62760
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184-000999

USER NAME =
 PLOT SCALE =
 PLOT DATE = 4/9/2015

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

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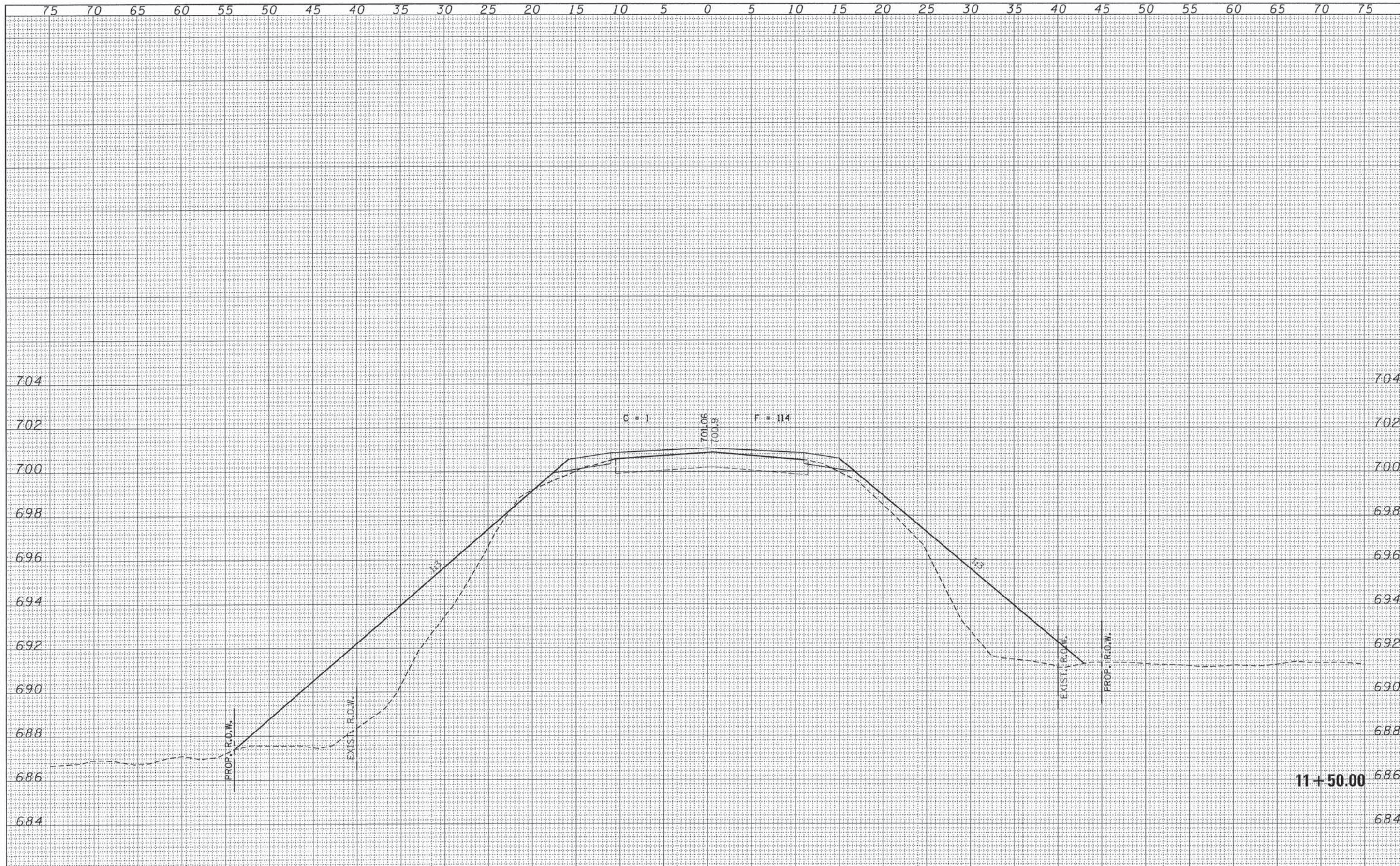
STATE OF ILLINOIS
 STARK COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 SCALE: 5H:2V
 SHEET NO. 16 OF 20 SHEETS
 STA. 11+00.00 TO STA. 11+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
375	13-00174-00-DR	STARK	30	26
CONTRACT NO. 89673				
ILLINOIS FED. AID PROJECT				

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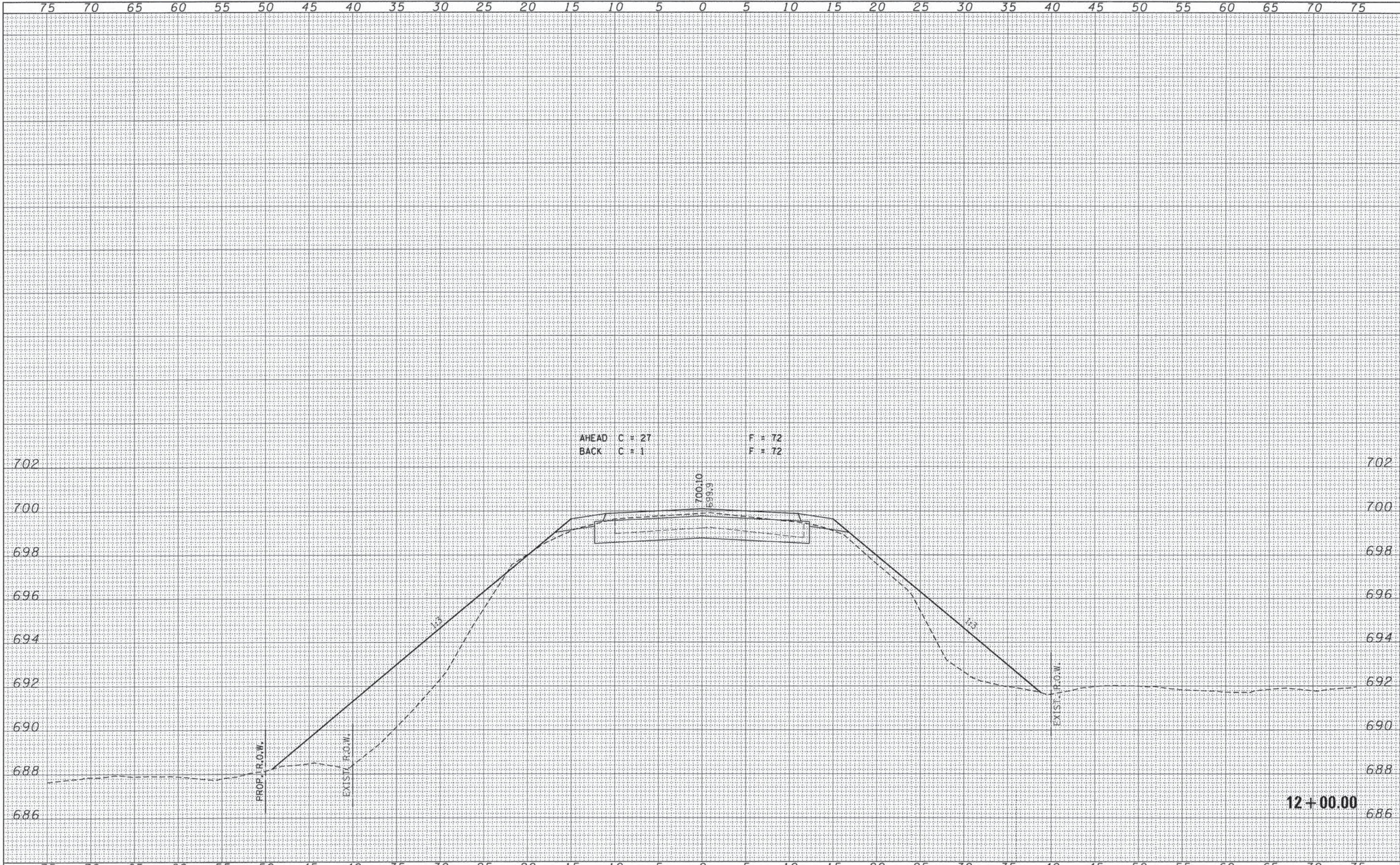
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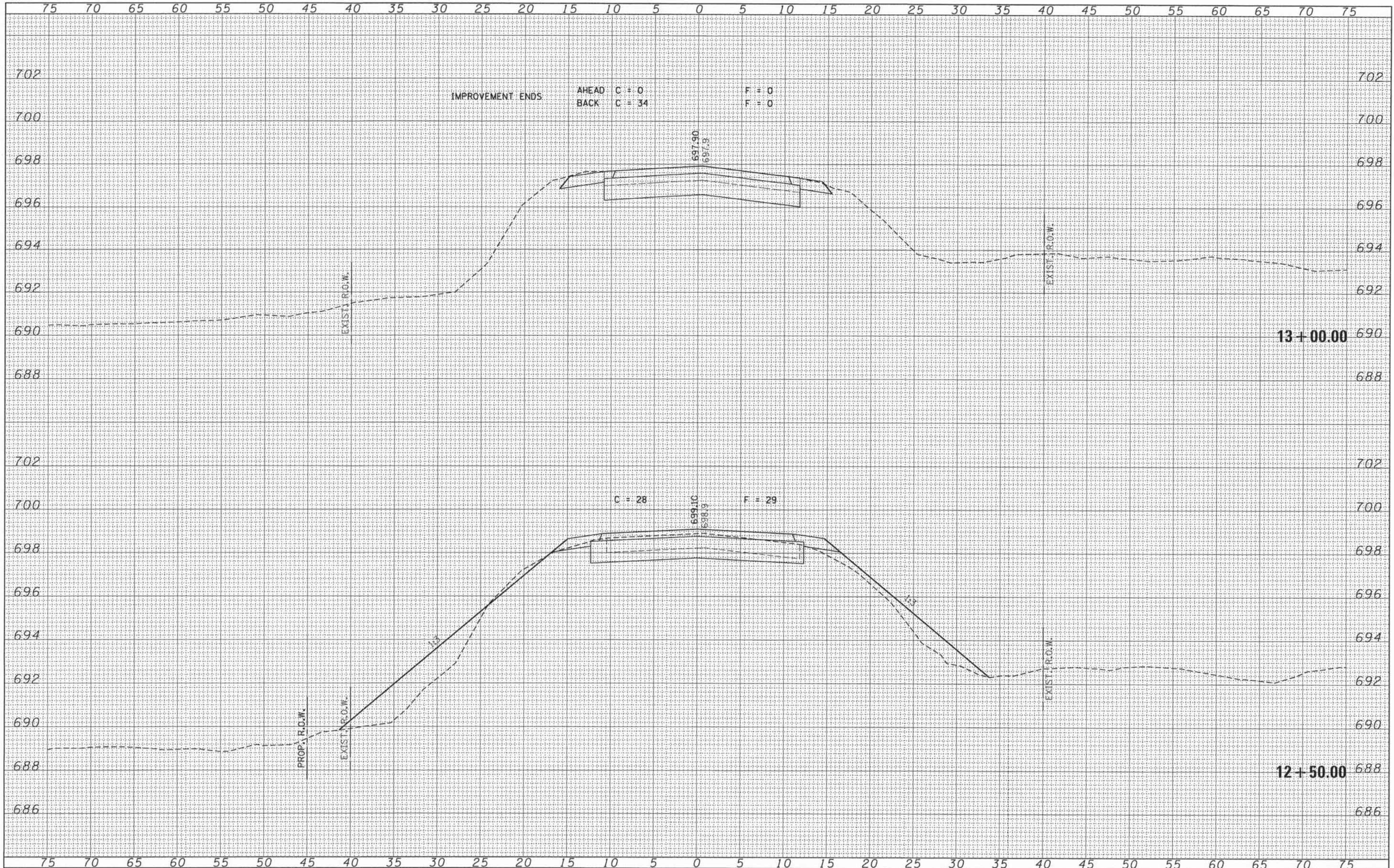
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -	STARK COUNTY HIGHWAY DEPARTMENT		375	13-00174-00-DR	STARK	30	27
1088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			SCALE: 5H:2V		SHEET NO. 17 OF 20 SHEETS		STA. 11+50.00 TO STA. 11+50.00
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000069	PLOT DATE = 4/9/2015	DATE - 04/09/15	REVISED -			ILLINOIS FED. AID PROJECT		CONTRACT NO. 89673		

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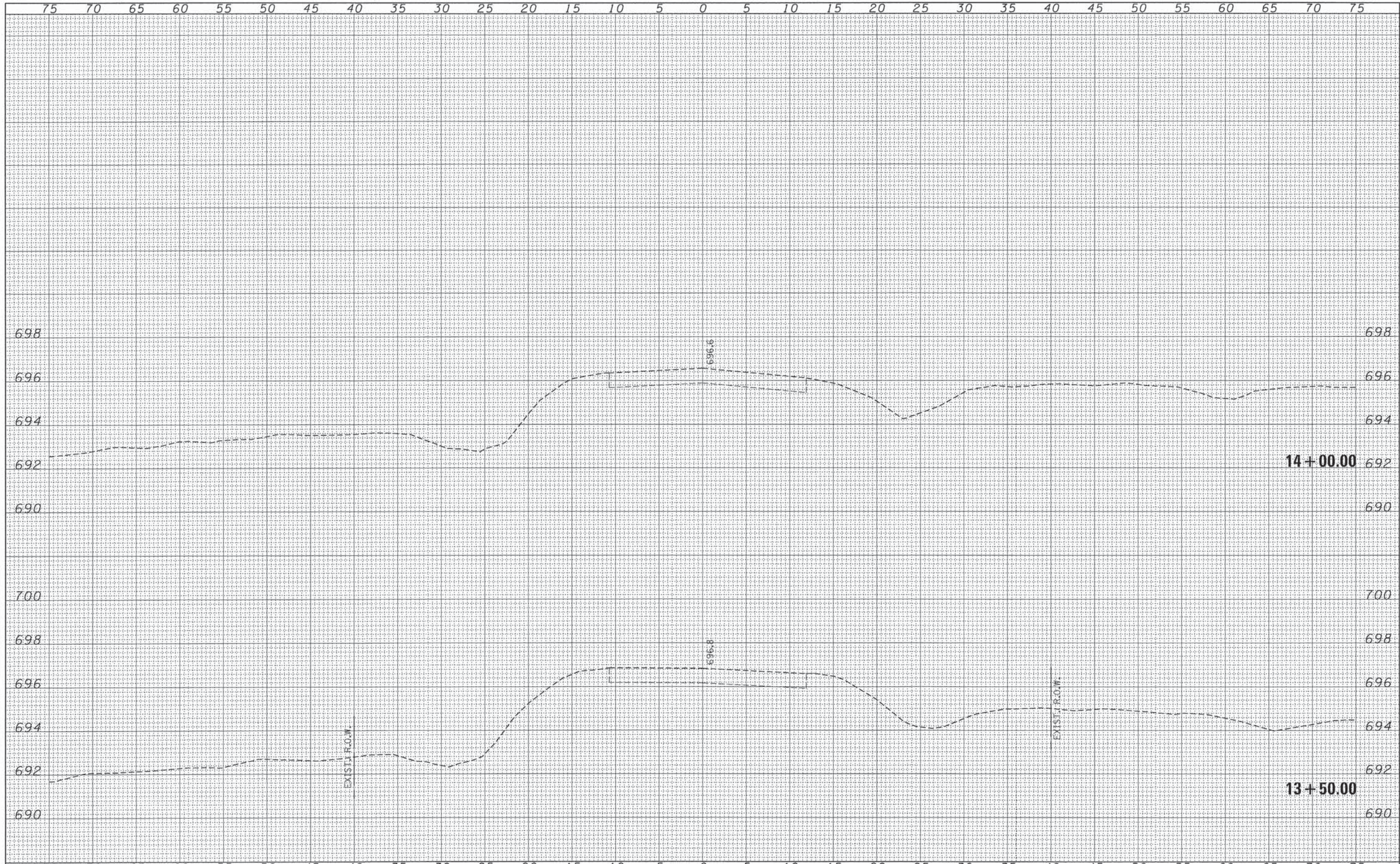
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HAMPTON, LENZINI AND RENWICK, INC. 1000 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - L.G.C.	REVISED -	SCALE: 5H:2V		SHEET NO. 18 OF 20 SHEETS		375	13-00174-00-DR	STARK	30	28
ILLINOIS PROFESSIONAL DESIGN FIRM L8 / PE / SE CORP. 184-00089	PLOT DATE = 4/9/2015	CHECKED - S.W.M.	REVISED -	STA. 12+00.00 TO STA. 12+00.00				CONTRACT NO. 89673				
		DATE - 04/09/15	REVISED -					ILLINOIS FED. AID PROJECT				



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HAMPTON, LENZINI AND RENWICK, INC. 3883 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62769	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		375	13-00174-00-DR	STARK	30	29			
HLR ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PS / SE CORP. 184 90089	PLOT DATE = 4/9/2015	CHECKED - S.W.M.	REVISED -		SCALE: 5H:2V	SHEET NO. 19 OF 20 SHEETS	STA. 12+50.00 TO STA. 13+00.00	CONTRACT NO. 89673				
		DATE - 04/09/15	REVISED -		<small>ILLINOIS FED. AID PROJECT</small>							



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FILE NAME = 140109-shr-axs.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 308 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62760 HLR ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959				375	13-00174-00-DR	STARK	30	30
PLOT SCALE = PLOT DATE = 4/9/2015				DRAWN - L.G.C. CHECKED - S.W.M. DATE - 04/09/15		REVISED - REVISED - REVISED -		CONTRACT NO. 89673 ILLINOIS FED. AID PROJECT
STATE OF ILLINOIS STARK COUNTY HIGHWAY DEPARTMENT				STATION CROSS SECTIONS				
				SCALE: 5H:2V	SHEET NO. 20 OF 20 SHEETS	STA. 13+50.00	TO STA. 14+00.00	