

01-15-2021 LETTING ITEM 088

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 734	13-00097-00-BR	MACOUPIN	50	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 93755		

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES
3.	GENERAL NOTES AND HIGHWAY STANDARDS
4.	TYPICAL CROSS SECTIONS
5.	SCHEDULE OF QUANTITIES
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12-13.	CULVERT PLANS
14-15.	BORINGS
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22-24.	EXISTING PLANS
25-38.	CULVERT CROSS SECTIONS
39-50.	BRIDGE CROSS SECTIONS
SEE SHEET 3 FOR HIGHWAY STANDARDS	

PLANS FOR PROPOSED  
SURFACE TRANSPORTATION PROGRAM – BRIDGE

PROJECT SNNH(023)  
SECTION 13-00097-00-BR  
MACOUPIN COUNTY  
F.A.S. 734 / C.H. 26 / SAWYERVILLE HILLS ROAD  
PROPOSED STRUCTURE NO. 059-3008  
JOB NO. C-96-065-18



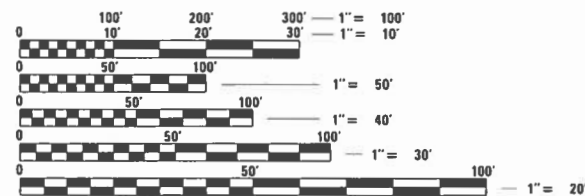
UTILITIES

FRONTIER COMMUNICATIONS  
616 E. MULBERRY STREET  
CHATHAM, IL 62629  
217-483-4658  
217-828-2812

AMEREN ILLINOIS  
1915 OLD BUS LINE ROAD  
MC 5-15  
HILLSBORO, IL 62049

MADISON TELEPHONE COMPANY  
P.O. BOX 29  
STAUNTON, IL 62088  
618-635-5000 EXT. 263  
618-406-6416

VILLAGE OF SAWYERVILLE  
WATER DEPARTMENT  
300 MINE ROAD  
SAWYERVILLE, IL 62085  
217-556-0691  
217-835-3135



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FUNCTIONAL CLASSIFICATION: MINOR COLLECTOR  
DESIGN SPEED: 40 MPH  
DESIGN TRAFFIC: 1150 ADT

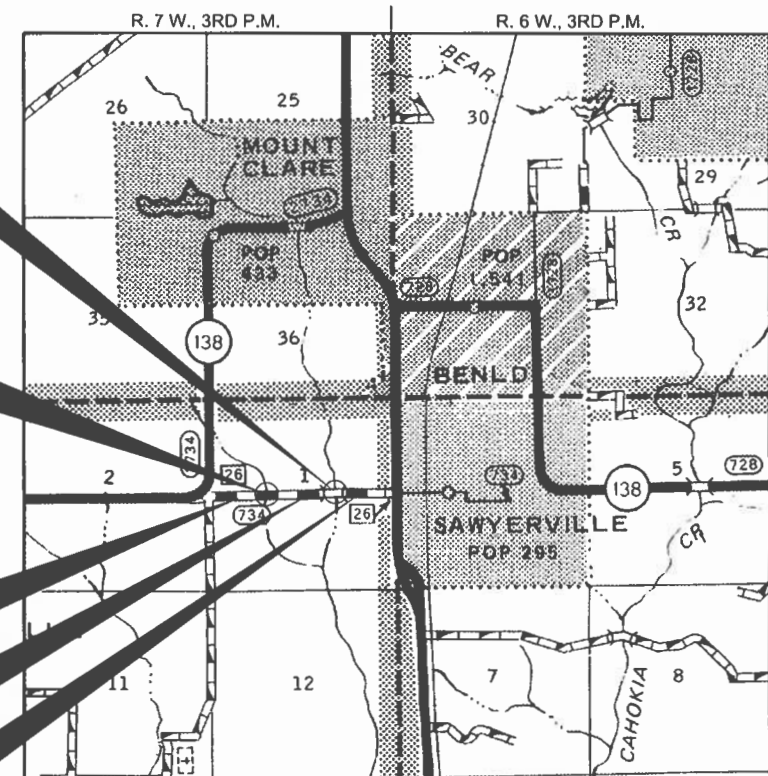
STA. 39+60.30  
SINGLE SPAN REINFORCED CONCRETE SLAB  
SUPERSTRUCTURE REPLACEMENT.  
27'-0" BK.-BK. ABUTMENTS  
28'-0" RDWY., SKEW = 0°  
PROPOSED STRUCTURE NO. 059-3008

STA. 20+47  
SINGLE 10' X 6' REINFORCED CONCRETE  
BOX CULVERT  
LENGTH = 180'; SKEW = 0°

IMPROVEMENT BEGINS  
STATION 18+51

OMISSION STATION 22+50  
TO STA. 38+00

IMPROVEMENT ENDS  
STATION 41+20



LOCATION MAP

APPROXIMATE SCALE: 0 1/2 MILE  
GROSS LENGTH OF SECTION = 2269 FEET = 0.430 MILES  
NET LENGTH OF SECTION = 719 FEET = 0.136 MILES

**WARNING**  
CALL JULIE TOLL FREE  
1-800-892-0123  
**CALL 811  
BEFORE YOU DIG**  
DIG NO: X2190411

ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED August 28, 2020  
*Thomas A Reinhard*  
COUNTY ENGINEER

PASSED October 27, 2020  
*Don Clardy*  
DISTRICT SIX ENGINEER  
LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review  
October 27, 2020  
*Jeffrey P. Myer*  
REGION FOUR ENGINEER  
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE: 08/27/2020  
LICENSED PROFESSIONAL ENGINEER  
STATE OF ILLINOIS  
EXPIRES: 11/30/2021

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  
ILLINOIS PROFESSIONAL DESIGN FIRM L.L.C. / P.E. / S.E. CORPORATION  
PROJECT NUMBER: 14-0022-130  
DATE: 08/27/2020

SUMMARY OF QUANTITIES					
CODE NO.	ITEM	UNIT	CULVERT CONSTRUCTION TYPE CODE 0004	BRIDGE 059-3008 CONSTRUCTION TYPE CODE 0013	TOTAL QUANTITY
A 20200100	EARTH EXCAVATION	CU YD	909	410	1,319
20400800	FURNISHED EXCAVATION	CU YD	7,085	0	7,085
20700110	POROUS GRANULAR EMBANKMENT	TON	1,500	52	1,552
20900110	POROUS GRANULAR BACKFILL	CU YD	230	0	230
28000400	PERIMETER EROSION BARRIER	FOOT	115	0	115
A 28100809	STONE DUMPED RIPRAP, CLASS A5	TON	420	370	790
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	50	150
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	5,111	1,234	6,345
28300400	AGGREGATE DITCH	TON	443	410	853
35100100	AGGREGATE BASE COURSE, TYPE A	TON	547	605	1,152
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,800	1,870	3,670
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	167	162	329
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	137	132	269
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	62	66	128
44004000	PAVED DITCH REMOVAL	FOOT	692	323	1,015
48101200	AGGREGATE SHOULDERS, TYPE B	TON	255	165	420
A 50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	0	1	1
50102400	CONCRETE REMOVAL	CU YD	0	0.6	0.6
50105220	PIPE CULVERT REMOVAL	FOOT	163	0	163
A 50200100	STRUCTURE EXCAVATION	CU YD	4,759	30	4,789
50300255	CONCRETE SUPERSTRUCTURE	CU YD	0	35.4	35.4
A 50300260	BRIDGE DECK GROOVING	SQ YD	0	78	78

A SEE SPECIAL PROVISIONS

SUMMARY OF QUANTITIES					
CODE NO.	ITEM	UNIT	CULVERT CONSTRUCTION TYPE CODE 0004	BRIDGE 059-3008 CONSTRUCTION TYPE CODE 0013	TOTAL QUANTITY
50300300	PROTECTIVE COAT	SQ YD	0	84	84
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	59,090	10,530	69,620
* 50901050	STEEL RAILING, TYPE SM	FOOT	0	63	63
A 51500100	NAME PLATES	EACH	0	1	1
54003000	CONCRETE BOX CULVERTS	CU YD	266.3	0	266.3
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	0	82	82
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	0	30	30
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	0	30	30
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	0	4	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	0	4	4
63200310	GUARDRAIL REMOVAL	FOOT	504	112	616
67100100	MOBILIZATION	L SUM	1	0	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	0	4	4
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	0	1,564	1,564
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	0	8	8
A X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	266	0	266
A X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.0	0.5	1.5
A X5150110	NAME PLATES (SPECIAL)	EACH	0	1	1
A X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	0	1
A Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	0	13	13
A Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	0	144	144
# A Z0076600	TRAINEES	HOURL			500
# A Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL			500

A SEE SPECIAL PROVISIONS

\* SPECIALTY ITEMS

# = 0042

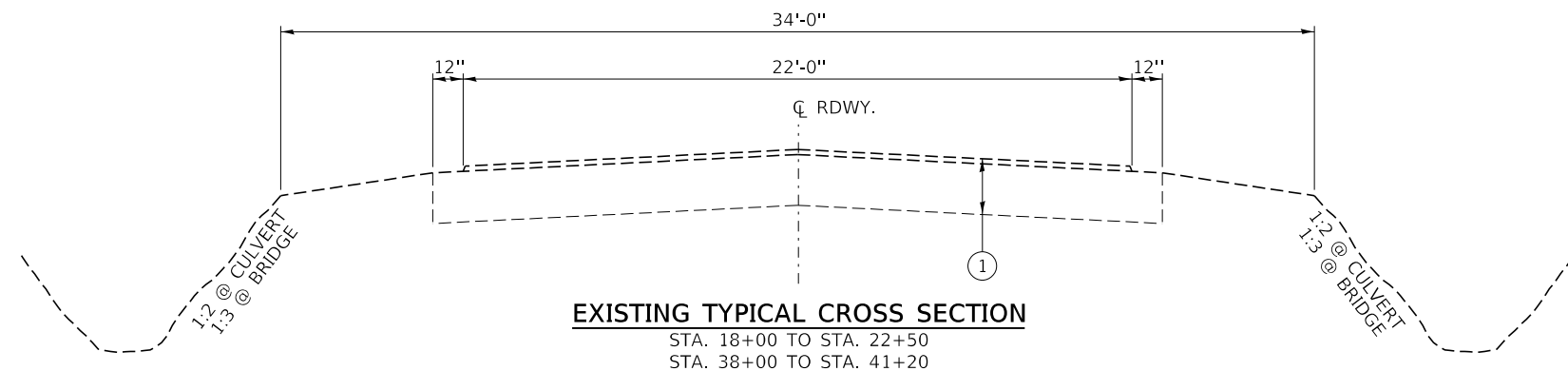
**GENERAL NOTES**

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
2. ALL CLEARING AND GRUBBING, FENCE REMOVAL AND REMOVAL OF EXISTING DRAINAGE STRUCTURES & HEADWALLS SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION UNLESS DENOTED IN THE PLANS. THE REMOVAL OF THE EXISTING PAVEMENT 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. SEE SPECIAL PROVISIONS.
3. THE LOCATION OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL 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.
4. 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.
5. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:
 

<b>AGGREGATE BASE COURSE</b>	<b>2.05 TON/CU YD</b>
<b>STONE RIPRAP</b>	<b>1.75 TON/CU YD</b>
<b>BITUMINOUS MATERIALS (PRIME COAT)</b>	<b>0.25 POUND/SQ FT</b>
<b>BITUMINOUS MATERIALS (TACK COAT)</b>	<b>0.025 POUND/SQ FT</b>
<b>TEMPORARY EROSION CONTROL SEEDING</b>	<b>100 POUND/ACRE</b>
<b>POROUS GRANULAR EMBANKMENT/BACKFILL</b>	<b>1.75 TON/CU YD</b>
6. THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER.
7. EXCAVATION REQUIRED BY CONTRACTOR FOR TEMPORARY CONSTRUCTION OPERATIONS SHALL NOT BE PAID FOR SEPERATELY.
8. PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN. SEE SPECIAL PROVISIONS.

**HIGHWAY STANDARDS**

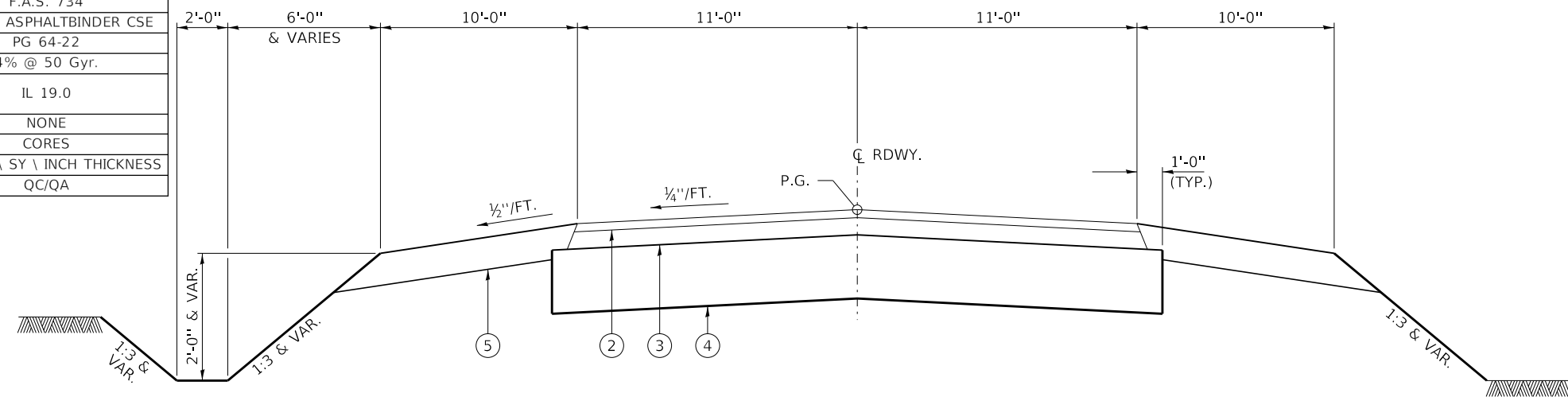
- |           |  |
|-----------|--|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS  |
| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS  |
| 515001-04 | NAME PLATE FOR BRIDGES   |
| 601101-02 | CONCRETE HEADWALL FOR PIPE UNDERDRAINS   |
| 630001-12 | STEEL PLATE BEAM GUARDRAIL   |
| 630301-09 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS                               |
| 631032-09 | TRAFFIC BARRIER TERMINAL, TYPE 6A  |
| 701901-08 | TRAFFIC CONTROL DEVICES  |
| 725001-01 | OBJECT AND TERMINAL MARKERS  |
| 780001-05 | TYPICAL PAVEMENT MARKINGS  |
| 782006-01 | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS                                    |
| BLR 21-9  | TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES; FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS |



**EXISTING TYPICAL CROSS SECTION**

STA. 18+00 TO STA. 22+50  
STA. 38+00 TO STA. 41+20

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
LOCATIONS(S)	F.A.S. 734	F.A.S. 734
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE	HOT-MIX ASPHALTBINDER CSE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ 50 Gyr.	4% @ 50 Gyr.
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 19.0
FRICTION AGGREGATE:	MIXTURE C	NONE
DENSITY TEST METHOD	CORES	CORES
MIXTURE WEIGHT:	112 LBS \ SY \ INCH THICKNESS	112 LBS \ SY \ INCH THICKNESS
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA



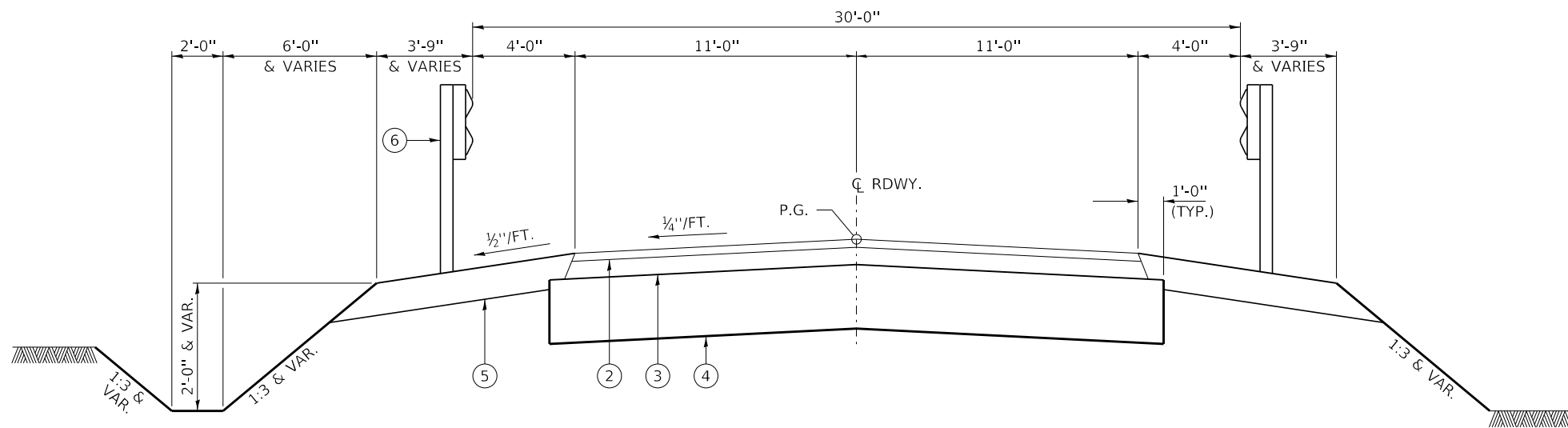
**PROPOSED TYPICAL CROSS SECTION**

STA. 19+00 TO STA. 22+00

TRANSITIONS FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY ARE TO BE CONSTRUCTED FROM STA. 18+51 TO STA. 19+00 AND STA. 22+00 TO STA. 22+50. AGGREGATE SHOULDERS SHALL BE CONSTRUCTED AS SHOWN ON SHEET 9.

SUGGESTED CUT SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

SUGGESTED FILL SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS



**PROPOSED TYPICAL CROSS SECTION**

STA. 38+00 TO STA. 39+46.80 &  
STA. 39+73.80 TO 41+20.00

TRANSITIONS FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY ARE TO BE CONSTRUCTED FROM STA. 38+00 TO STA. 38+50 AND STA. 40+70 TO STA. 41+20. SEE SHEET 15 FOR TRANSITION AT BRIDGE. AGGREGATE SHOULDERS SHALL BE CONSTRUCTED AS SHOWN ON SHEET 9.

SUGGESTED CUT SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

SUGGESTED FILL SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

**LEGEND**

- ① EXISTING AGGREGATE BASE COURSE W/ A-3 SURFACE (±14")
- ② HMA SURFACE COURSE MIX "C", IL 9.5, N50 (1½")
- ③ HMA BINDER COURSE, IL 19.0, N50 (3¼")
- ④ AGGREGATE BASE COURSE, TYPE A (12")
- ⑤ AGGREGATE SHOULDERS, 6"
- ⑥ TRAFFIC BARRIER TERMINALS

EARTHWORK SUMMARY							
LOCATION	EARTH EXCAVATION	STRUCTURE EXCAVATION	SHRINKAGE FACTOR	% USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE( 25%)	EMBANKMENT REQUIRED	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	20200100	50200100					
<b>FAS 734 / CH 26 / SAWYERVILLE HILLS ROAD</b>	CU YD	CU YD			CU YD	CU YD	CU YD
STA 18+51 TO STA 22+50	909	4759	25.00%	100.00%	4251	11454	-7203
STA 38+00 TO STA 39+46.80	188	15	25.00%	100.00%	152	158	-6
STA 39+73.80 TO STA 41+20	222	15	25.00%	100.00%	178	54	124
TOTAL	1319	4789			4581		-7085
USE	1319	4789					-7085

FURNISHED EXCAVATION 7085 CU.YD.

NOTES:

STRUCTURE AND EARTH EXCAVATION MAY BE STORED ON HIGHWAY R.O.W. AS APPROVED BY THE ENGINEER.

THIS MATERIAL MAY BE USED IN THE PROPOSED EMBANKMENTS

PAVEMENT MARKING SCHEDULE		
LOCATION	PAINT PAVEMENT MARKING - LINE 5"	
	EDGE LINE WHITE	SKIP DASH CENTERLINE YELLOW
	78001120	
	FOOT	FOOT
<b>FAS 734 / CH 26 / SAWYERVILLE HILLS ROAD</b>		
STA 18+60 TO STA 22+50	780	80
STA 38+00 TO STA 41+20	640	64
SUBTOTAL	1420	144
TOTAL	1564	

ROADWAY SCHEDULE						
LOCATION	AGGREGATE BASE COURSE	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE	HOT-MIX ASPHALT SURFACE COURSE	AGGREGATE SHOULDERS
	TYPE A			IL-19.0, N50	IL-9.5, MIX "C", N50	TYPE B
	35100100	40600275	40600290	40603080	40604050	48101200
	TON	POUND	POUND	TON	TON	TON
<b>FAS 734 / CH 26 / SAWYERVILLE HILLS ROAD</b>						
CL. STA 19+00 TO STA 22+00	547	1800	167	137	62	
LT. STA 18+60 TO STA 22+50						125
RT. STA 18+60 TO STA 22+50						130
CL. STA 38+00 TO STA 39+46.80	268	881	81	66	30	
CL. STA 39+73.80 TO STA 41+20	266	877	81	66	30	
LT. STA 38+00 TO STA 41+20						80
RT. STA 38+00 TO STA 41+20						85
F.E. STA 38+18 LT.	27					
F.E. STA 40+98 LT.	27					
P.E. STA 41+03 RT	17	112			6	
TOTAL	1152	3670	329	269	128	420

GUARDRAIL SUMMARY					
LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	GUARDRAIL REFLECTORS TYPE A	TERMINAL MARKER DIRECT APPLIED
		63100087	63100167	63200310	78200005
	EACH	EACH	FOOT	EACH	EACH
<b>FAS 734 / CH 26 / SAWYERVILLE HILLS ROAD</b>					
LT. STA 19+20.00 TO STA 21+72.00			252		
RT. STA 19+20.00 TO STA 21+72.00			252		
LT. STA 38+57.05 TO STA 40+63.55	2	2	56	4	2
RT. STA 38+57.05 TO STA 40+63.55	2	2	56	4	2
TOTAL	4	4	616	8	4

SEEDING SCHEDULE				
LOCATION	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY EROSION CONTROL BLANKET	SEEDING, CLASS 2 (SPECIAL)
		28000400	28000250	28001100
	FOOT	POUND	SQ. YD.	ACRE
<b>FAS 734 / CH 26 / SAWYERVILLE HILLS ROAD</b>				
LT. STA 18+60 TO STA 22+50		60	2720	0.6
RT. STA 18+60 TO STA 22+50		50	2391	0.5
LT. STA 38+00 TO STA 39+46.80		10	295	0.1
RT. STA 38+00 TO STA 39+46.80		10	359	0.1
LT. STA 39+73.80 TO STA 41+20		10	281	0.1
RT. STA 39+73.80 TO STA 41+20		10	299	0.1
LT. STA 20+80 TO STA 22+00	115			
TOTAL	115	150	6345	1.5
USE	115	150	6345	1.5

AGGREGATE DITCH SCHEDULE		
LOCATION	AGGREGATE DITCH	PAVED DITCH REMOVAL
		28300400
	TON	FOOT
<b>FAS 734 / CH 26 / SAWYERVILLE HILLS ROAD</b>		
LT. STA 18+85 TO STA 20+14	117	157
LT. STA 21+75 TO STA 22+50	68	203
RT. STA 18+70 TO STA 20+24	140	171
RT. STA 20+70 TO STA 22+00	118	161
LT. STA 38+38 TO STA 39+45	97	81
LT. STA 39+75 TO STA 40+77	93	87
RT. STA 38+25 TO STA 39+50	113	74
RT. STA 39+70 TO STA 40+88	107	81
TOTAL	853	1015

FILE NAME = 140022-sht-schedu.es.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REVISED -
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62710 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -
PLOT DATE = 11/2/2020		CHECKED - S.W.M.	REVISED -
		DATE - 08/27/2020	REVISED -

STATE OF ILLINOIS  
MACOUPIN COUNTY HIGHWAY DEPARTMENT

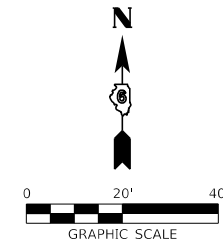
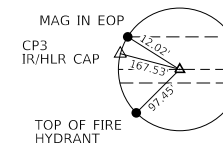
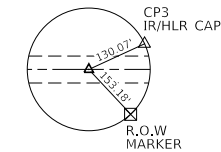
SCHEDULE OF QUANTITIES

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	13-00097-00-BR	MACOUPIN	50	5
SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755	
ILLINOIS FED. AID PROJECT SNH(023)				

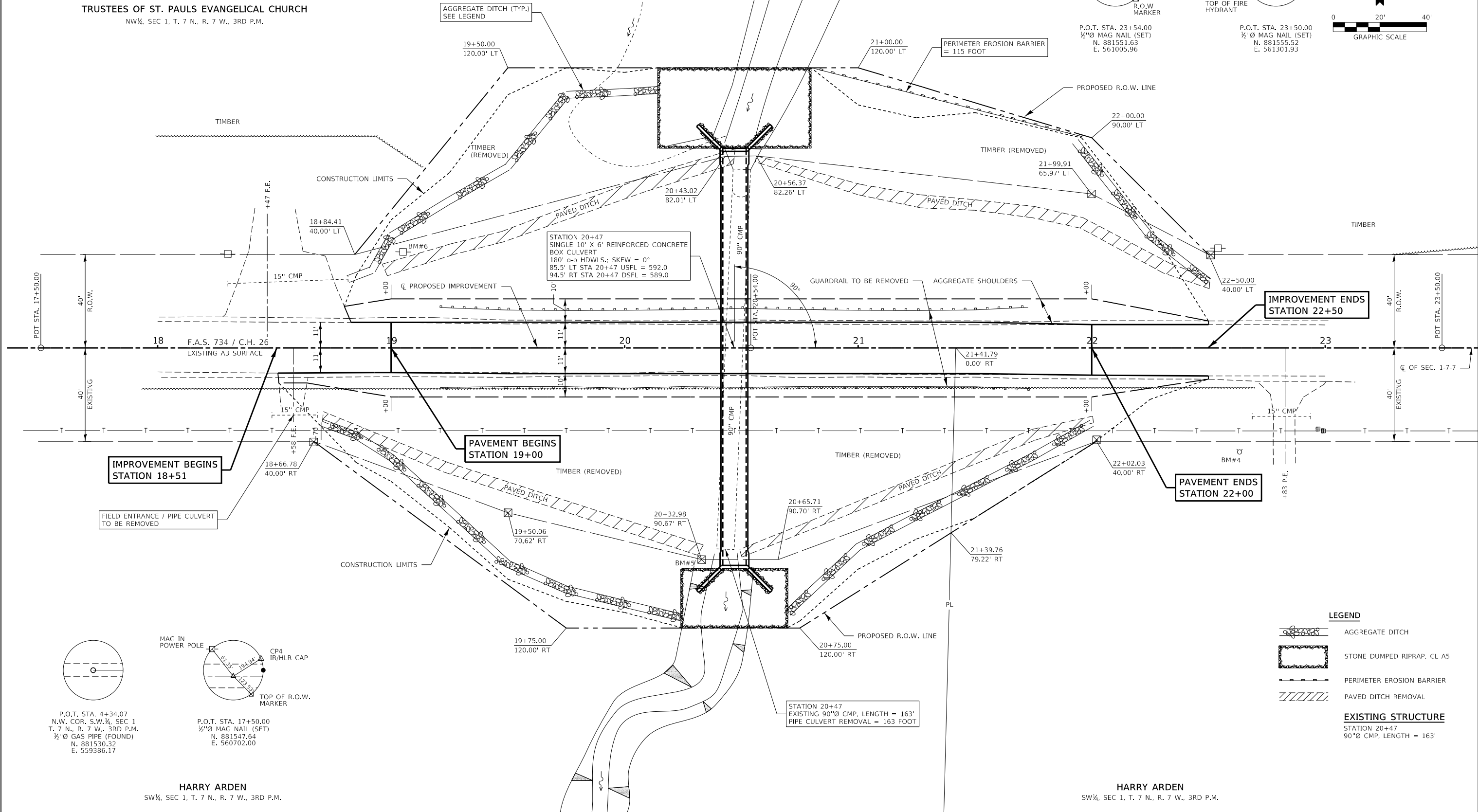
TRUSTEES OF ST. PAULS EVANGELICAL CHURCH  
NW¼, SEC 1, T. 7 N., R. 7 W., 3RD P.M.

TRUSTEES OF ST. PAULS EVANGELICAL CHURCH  
NW¼, SEC 1, T. 7 N., R. 7 W., 3RD P.M.



P.O.T. STA. 23+54.00  
½"Ø MAG NAIL (SET)  
N. 881551.63  
E. 561005.96

P.O.T. STA. 23+50.00  
½"Ø MAG NAIL (SET)  
N. 881555.52  
E. 561301.93



IMPROVEMENT BEGINS  
STATION 18+51

PAVEMENT BEGINS  
STATION 19+00

IMPROVEMENT ENDS  
STATION 22+50

PAVEMENT ENDS  
STATION 22+00

STATION 20+47  
EXISTING 90"Ø CMP, LENGTH = 163'  
PIPE CULVERT REMOVAL = 163 FOOT

- LEGEND**
- AGGREGATE DITCH
  - STONE DUMPED RIPRAP, CL A5
  - PERIMETER EROSION BARRIER
  - PAVED DITCH REMOVAL
- EXISTING STRUCTURE**
- STATION 20+47  
90"Ø CMP, LENGTH = 163'

P.O.T. STA. 4+34.07  
N.W. COR. S.W.¼, SEC 1  
T. 7 N., R. 7 W., 3RD P.M.  
½"Ø GAS PIPE (FOUND)  
N. 881530.32  
E. 559386.17

P.O.T. STA. 17+50.00  
½"Ø MAG NAIL (SET)  
N. 881547.64  
E. 560702.00

HARRY ARDEN  
SW¼, SEC 1, T. 7 N., R. 7 W., 3RD P.M.

HARRY ARDEN  
SW¼, SEC 1, T. 7 N., R. 7 W., 3RD P.M.

FILE NAME = 140022-shr-01nprf.dgn	USER NAME = rmosick	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS MACOUPIN COUNTY HIGHWAY DEPARTMENT</b>	<b>CULVERT PLAN</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3068 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -			734	13-00097-00-BR	MACOUPIN	50	6	
PLOT DATE = 10/20/2020	DATE = 08/27/2020	CHECKED - S.W.M.	REVISED -			SAWYERVILLE HILLS ROAD / C.H. 26 CONTRACT NO. 93755					
		SCALE: 1:20				ILLINOIS FED. AID PROJECT SNH(023)					

PLAN	DATE
BY	
REVIEWED	
PLOTTED	
ALIGNMENT CHECKED	
GRADES CHECKED	
STRUCTURE NOTATING CHKD	
NOTE BOOK NO.	
CADD FILE NAME	

PROFILE	DATE
BY	
REVIEWED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATING CHKD	
NOTE BOOK NO.	
CADD FILE NAME	

BM#6 - RR SPIKE IN POWER POLE  
40' LT., STA. 19+05  
ELEV. 618.10

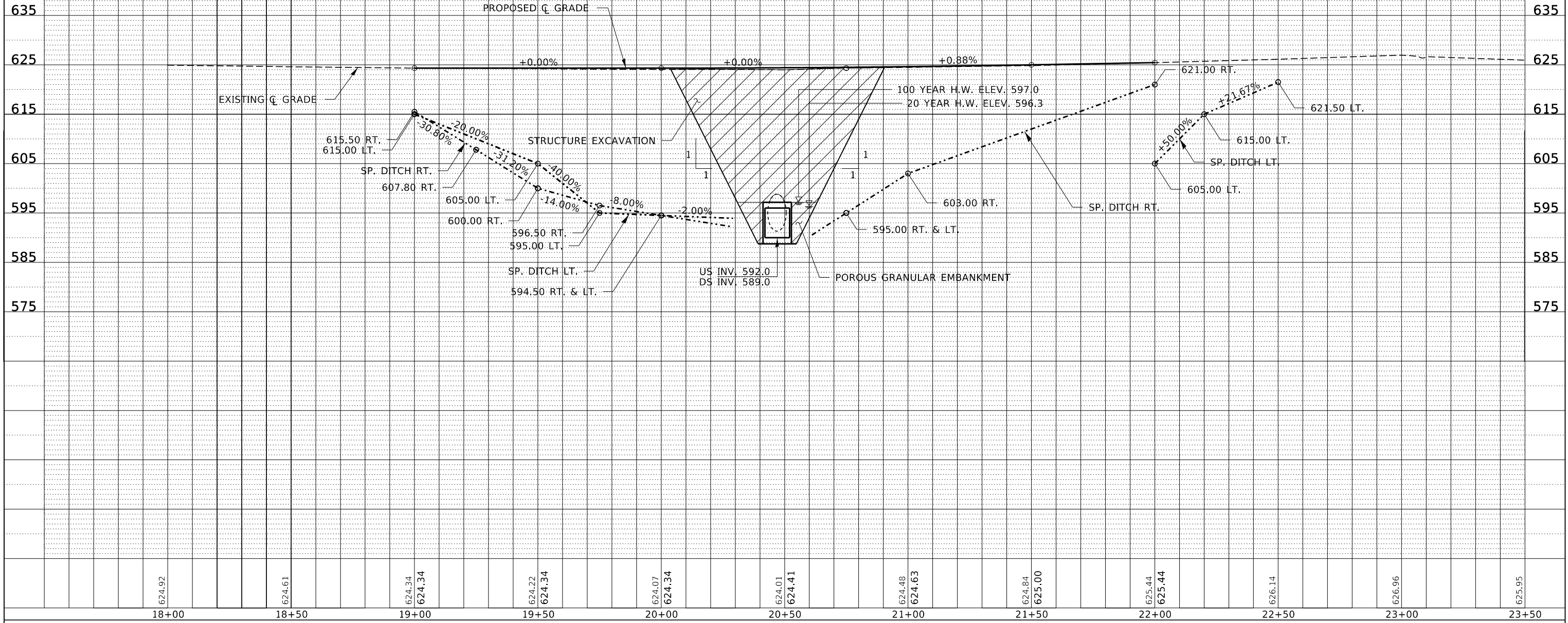
BM#5 - TOP OF R.O.W. MARKER  
91' RT., STA. 20+33  
ELEV. 594.87

BM#4 - TOP OF NUT ON FIRE HYDRANT  
45' LT., STA. 22+63  
ELEV. 628.63

VPC STA: 20+00.0  
ELEV: 624.34

VPI STA: 20+75.00  
ELEV: 624.34  
K = 170  
150' V.C.

VPT STA: 21+50.0  
ELEV: 625.00



FILE NAME = 140022-sht-plnprf.dgn  
HAMPTON, LENZINI AND RENWICK, INC.  
3066 STEVENSON DRIVE, SUITE 201  
SPRINGFIELD, ILLINOIS 62703  
ILLINOIS PROFESSIONAL DESIGN FIRM  
LS / PE / SE CORP. 184.000959

USER NAME = rhosick  
PLOT SCALE = \*SCALE\*  
PLOT DATE = 9/4/2020

DESIGNED - J.W.F.  
DRAWN - T.W.K.  
CHECKED - S.W.M.  
DATE - 08/27/2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
MACOUPIN COUNTY HIGHWAY DEPARTMENT

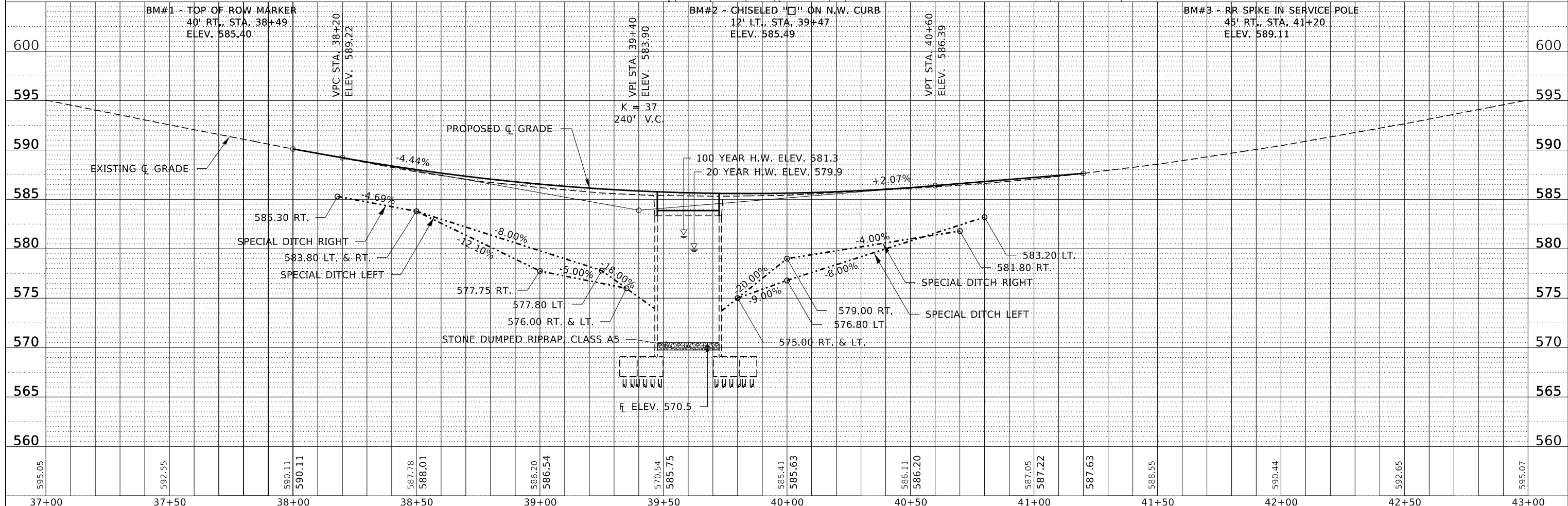
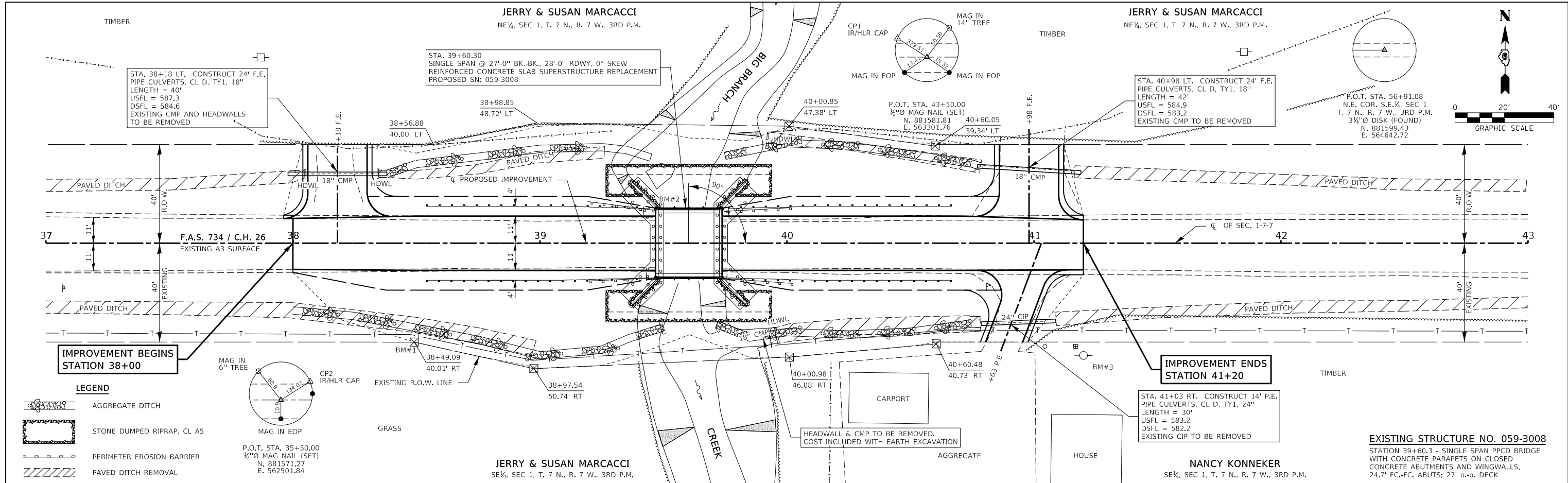
CULVERT PROFILE

SCALE: 20H:10V SHEET NO. 2 OF 3 SHEETS STA. 18+00 TO STA. 24+00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	13-00097-00-BR	MACOUPIN	50	7
SAWYERVILLE HILLS ROAD / C.H. 26		CONTRACT NO. 93755		
ILLINOIS FED. AID PROJECT SNH(023)				

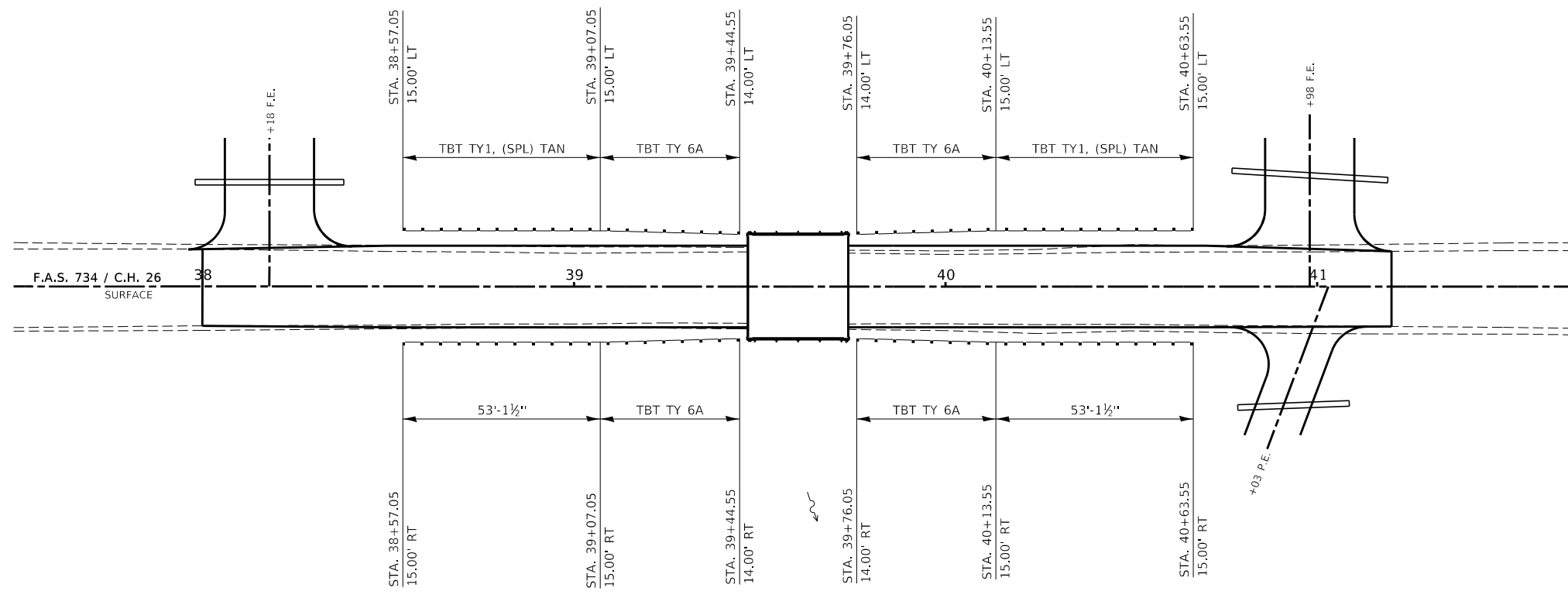
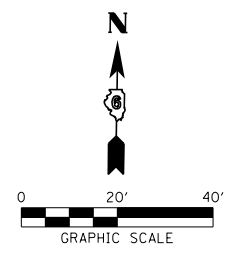
DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	

DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	



FILE NAME = 140022-shi-plnprf.dgn	USER NAME = rmosick	DESIGNED - S.W.M.	REVISED -	<b>STATE OF ILLINOIS</b> <b>MACOUPIN COUNTY HIGHWAY DEPARTMENT</b>	<b>BRIDGE - PLAN &amp; PROFILE</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.	3088 STEVENSON DRIVE, SUITE 201	DRAWN - L.G.C.	REVISED -			734	13-00097-00-BR	MACOUPIN	50	8
3088 STEVENSON DRIVE, SUITE 201	SPRINGFIELD, ILLINOIS 62703	CHECKED - S.W.M.	REVISED -			SAWYERVILLE HILLS ROAD / C.H. 26		CONTRACT NO. 93755		
ILLINOIS PROFESSIONAL DESIGN FIRM	LS / PE / SE CORP. 184.000959	DATE - 08/27/2020	REVISED -			SCALE: 20H:5V	SHEET NO. 3 OF 3 SHEETS	STA. 37+00.00 TO STA. 43+00.00	ILLINOIS FED. AID PROJECT SNH(023)	





FILE NAME = 140022-shit-grail-shldr.dgn  
 USER NAME = rmosck  
**HAMPTON, LENZINI AND RENWICK, INC.**  
 3085 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184.000959

DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 08/27/2020  
 PLOT SCALE = \$SCALE\$  
 PLOT DATE = 9/4/2020

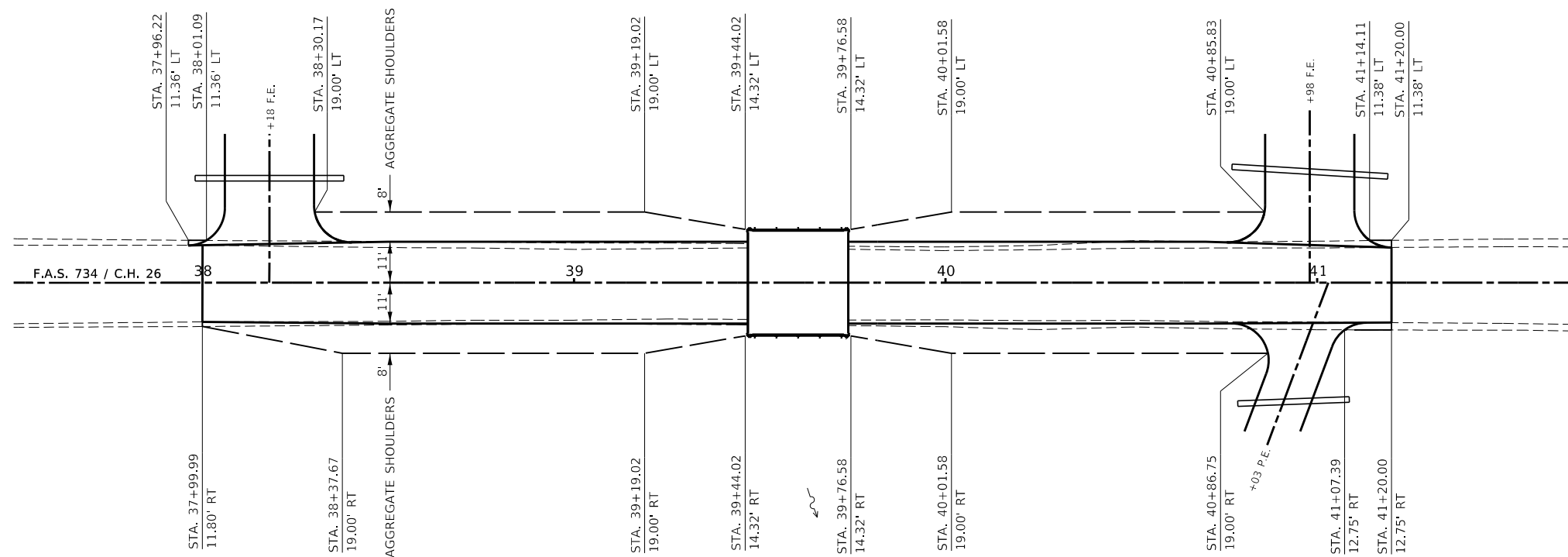
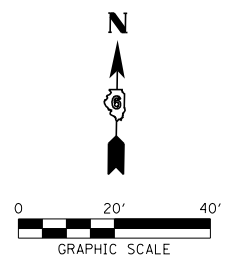
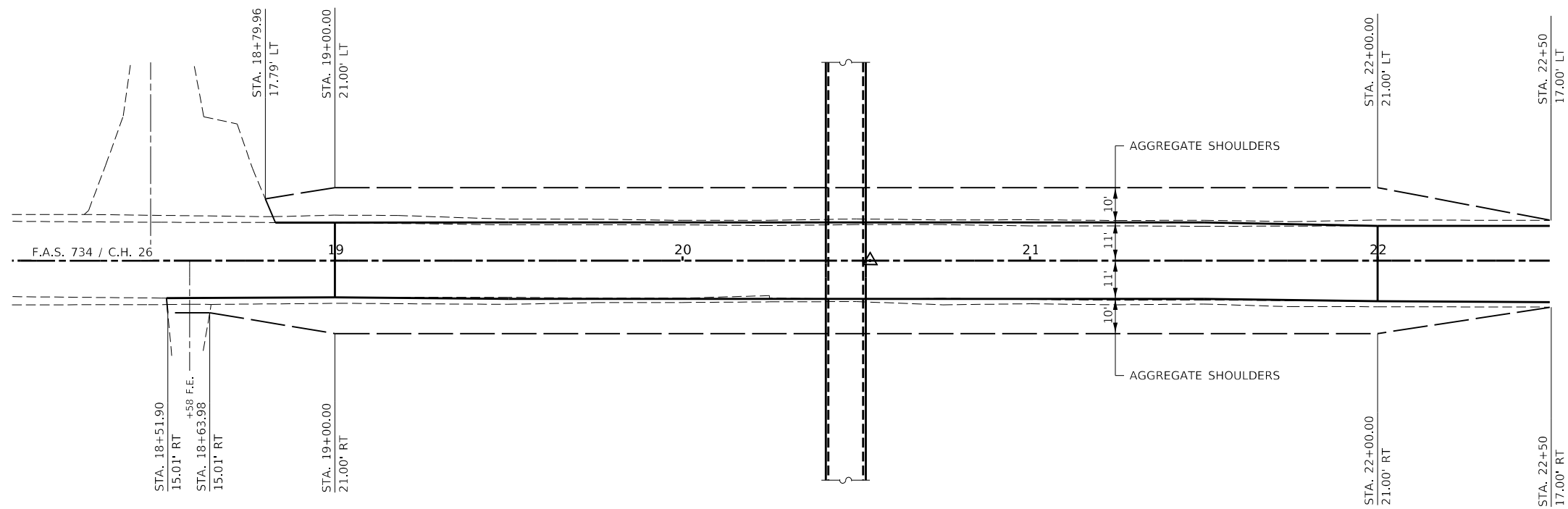
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 MACOUPIN COUNTY HIGHWAY DEPARTMENT**

**GUARDRAIL LAYOUT**

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	13-00097-00-BR	MACOUPIN	50	9
SAWYERVILLE HILLS ROAD / C.H. 26		CONTRACT NO. 93755		
ILLINOIS FED. AID PROJECT SNNH(023)				



FILE NAME = 140022-shld-graft-shldr.dgn  
 HAMPTON, LENZINI AND RENWICK, INC.  
 3065 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184.000959

USER NAME = rmosck  
 PLOT SCALE = \$SCALE\$  
 PLOT DATE = 9/4/2020

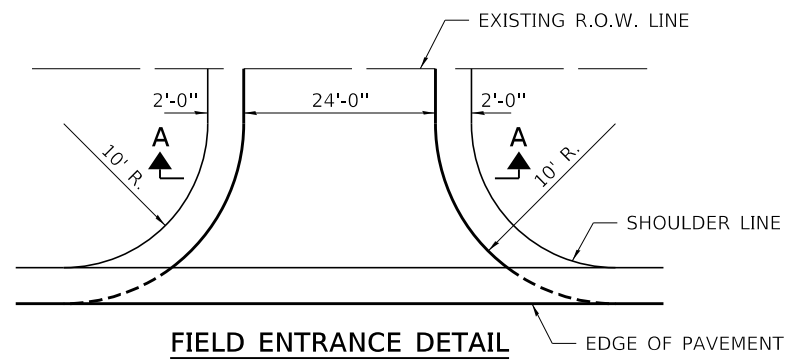
DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 08/27/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

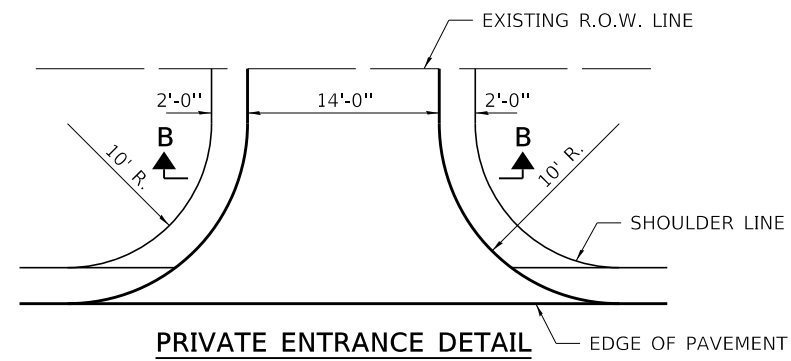
STATE OF ILLINOIS  
 MACOUPIN COUNTY HIGHWAY DEPARTMENT

SHOULDER LAYOUT  
 SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

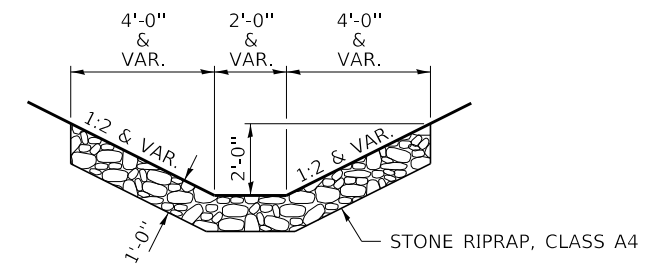
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	13-00097-00-BR	MACOUPIN	50	10
SAWYERVILLE HILLS ROAD / C.H. 26		CONTRACT NO. 93755		
ILLINOIS FED. AID PROJECT SNNH(023)				



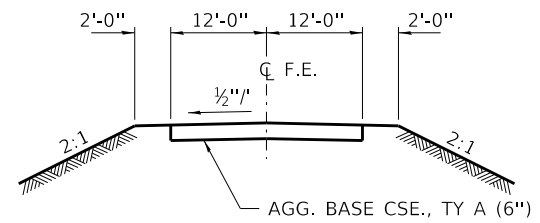
**FIELD ENTRANCE DETAIL**



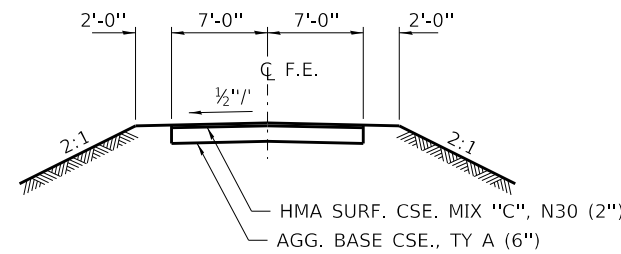
**PRIVATE ENTRANCE DETAIL**



**AGGREGATE DITCH**



**SECTION A-A**



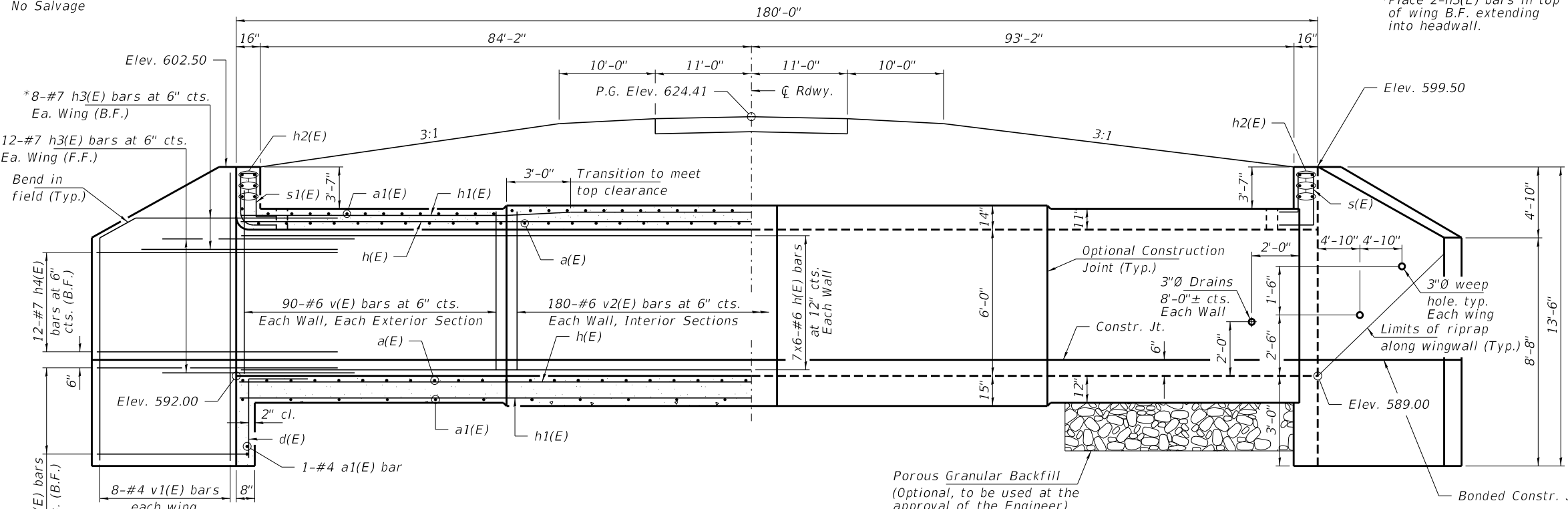
**SECTION B-B**

BENCHMARK: Top of R.O.W. Marker - 91.0' Rt., Sta. 20+33, Elev. 594.87

EXISTING STRUCTURE: Sta. 20+47. 90"Ø CMP, Length = 163'

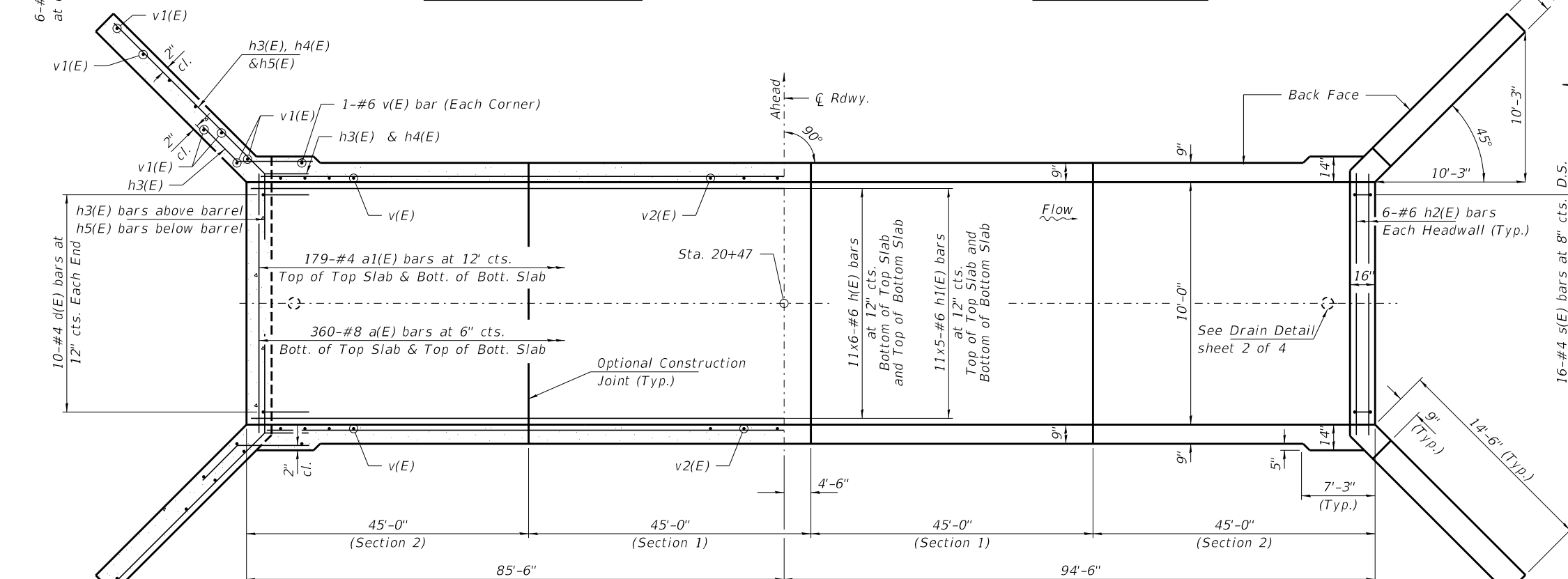
Structure closed to traffic during construction.

No Salvage



HALF LONG SECTION

HALF ELEVATION



SHOWING REINFORCEMENT

PLAN

SHOWING OUTLINES

**NOTES**

Exposed edges shall be beveled 3/4".  
 For backfilling and embankment, see Standard Specifications, except that Granular embankment 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.  
 Bars indicated thus 11x5-#7 etc. indicates 11 lines of bars with 5 lengths per line.  
 All bars shall be epoxy coated.

**INDEX OF STRUCTURE SHEETS**

- 1-2. Culvert Details
- 3-4. Borings

**MIN. BAR LAP**

#6 = 5'-2" (Barrel)

**DESIGN STRESSES**

f'c = 3,500 psi  
 fy = 60,000 psi (Reinf.)

**LOADING HL-93**

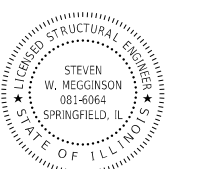
Design Specifications: 2018 AASHTO LRFD with all applicable interims.  
 50#/Sq. Ft. included in dead load for future wearing surface.

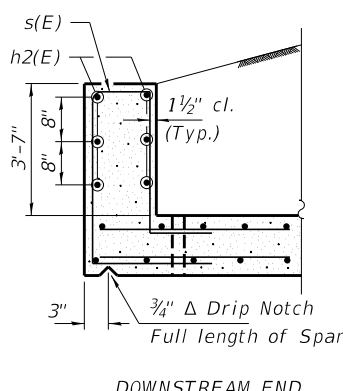
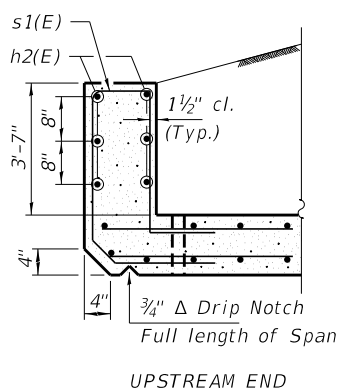
**BILL OF MATERIAL - CULVERT**

Bar	No.	Size	Length	Shape
a(E)	720	#8	13'-0"	┌──┐
a1(E)	360	#4	11'-2"	──
d(E)	20	#4	4'-6"	└──┘
h(E)	216	#6	34'-3"	──
h1(E)	110	#6	40'-1"	──
h2(E)	12	#6	10'-6"	──
h3(E)	80	#7	8'-0"	──
h4(E)	48	#7	18'-4"	──
h5(E)	24	#7	16'-11"	──
s(E)	16	#6	13'-6"	┌──┐
s1(E)	16	#6	13'-4"	└──┘
v(E)	364	#6	7'-7"	──
v1(E)	32	#4	13'-3"	──
v2(E)	360	#6	8'-2"	──
Porous Granular Embank.	Ton	1,500		
Porous Granular Backfill	Cu. Yd.	230		
Stone Dumped Riprap, Class A5	Ton	420		
Structure Excavation	Cu. Yd.	4,759		
Reinf. Bars, Epoxy Coated	Pound	59,090		
Name Plates	Each	1		
Concrete Box Culverts	Cu. Yd.	266.3		
Membrane Waterproofing System for Buried Struct.	Sq. Yd.	266		

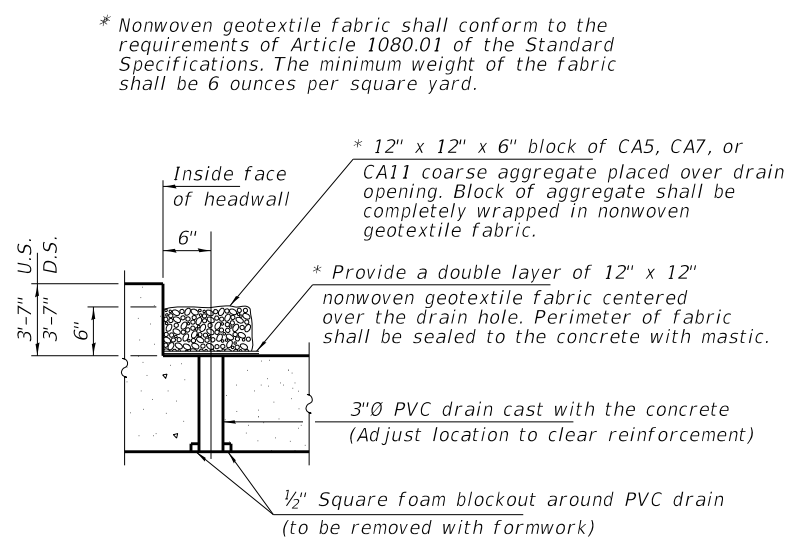
I certify that to the best of my knowledge, information and belief, this culvert design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current "AASHTO LRFD Specifications."

Steven W. Megginson 08/27/2020  
 ILLINOIS STRUCTURAL ENGINEER NO. 081-6064 Expires 11-30-2020



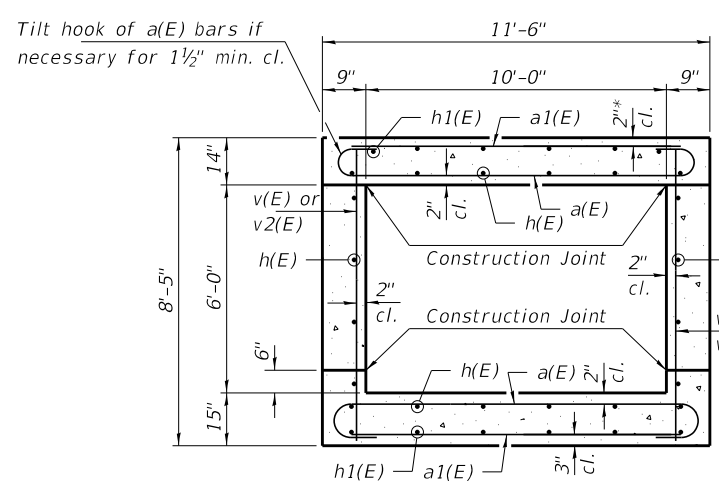


SECTION THRU HEADWALL

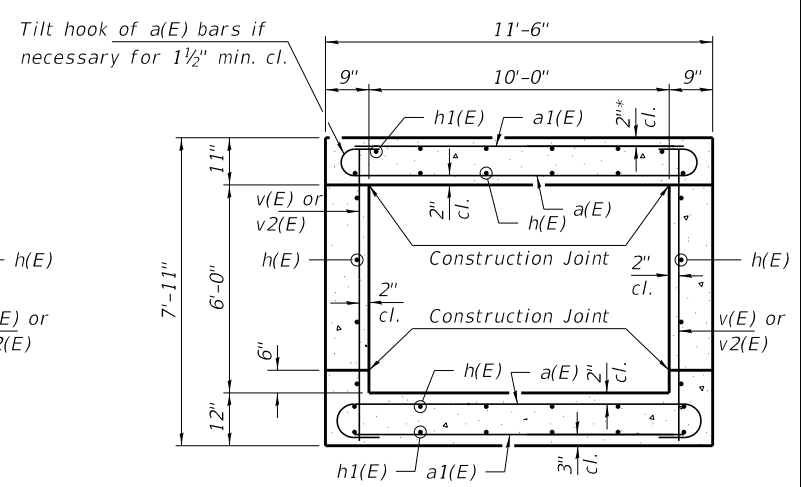


TOP DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for Concrete Box Culverts.)

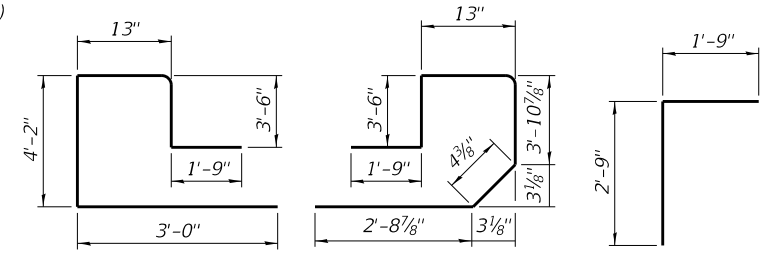


SECTION THRU BARREL (Section 1)



SECTION THRU BARREL (Section 2)

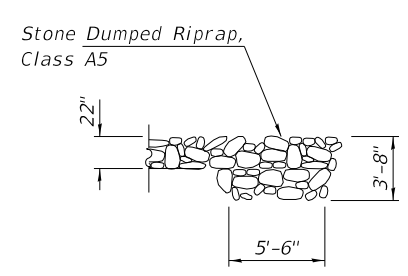
\*2" Clearance shall be maintained in the barrel Section 1 and transitioned to within barrel section 2.



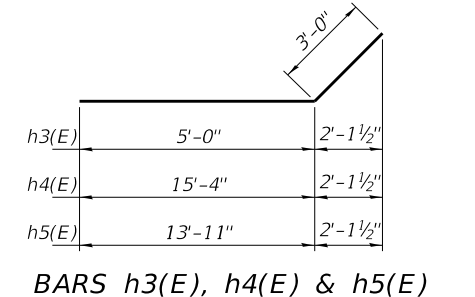
BAR s(E)

BAR s1(E)

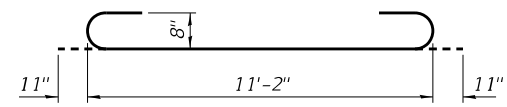
BAR d(E)



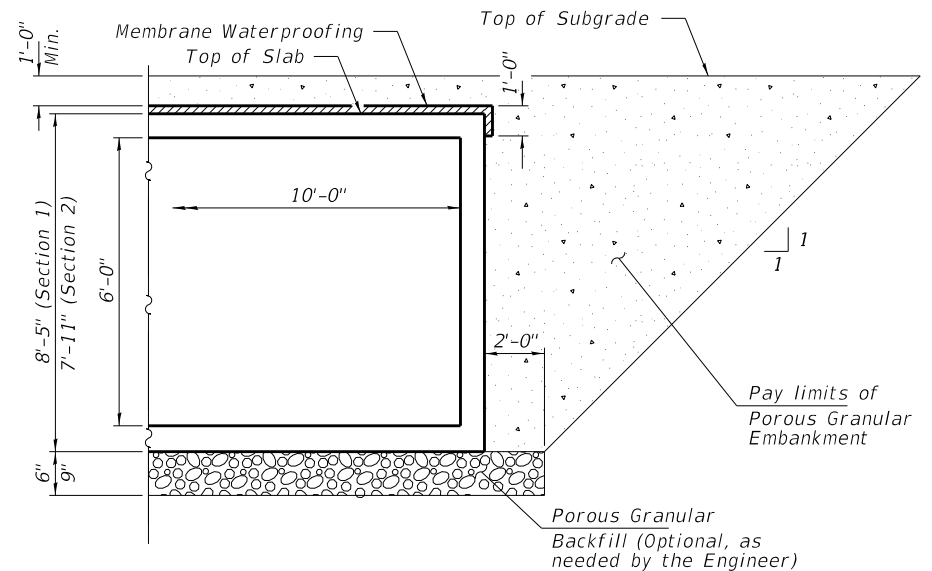
SECTION B-B



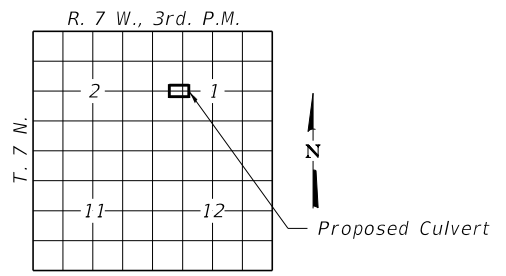
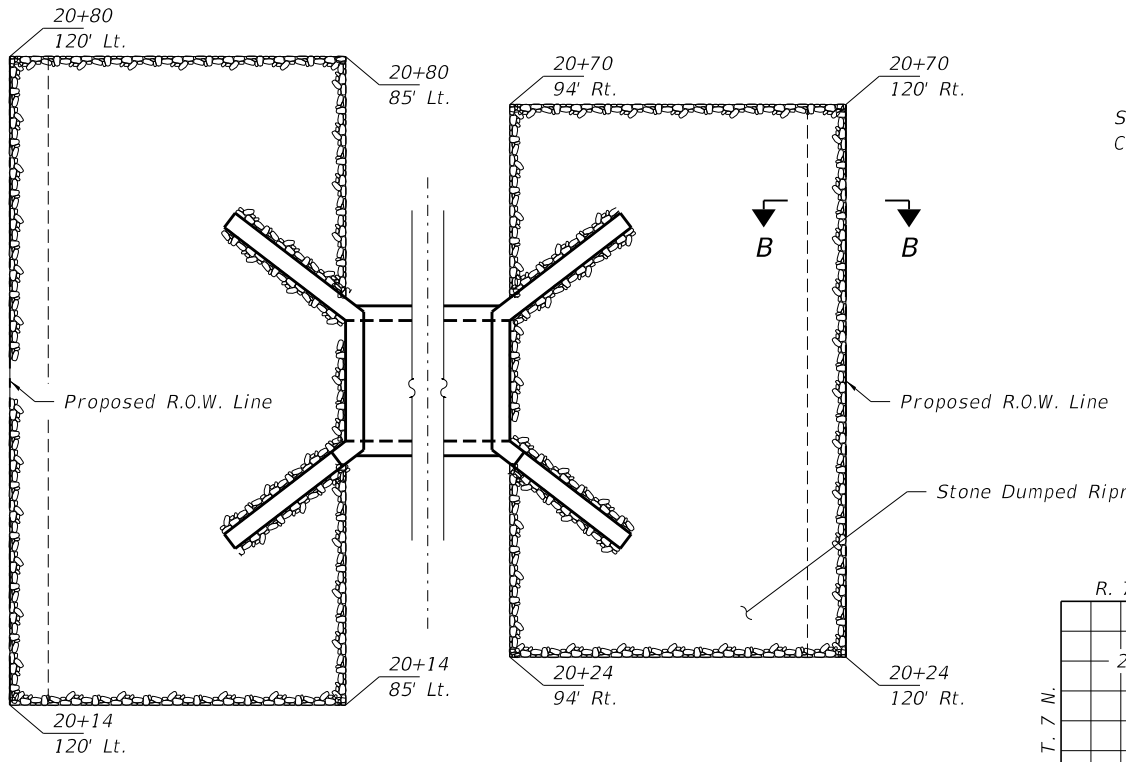
BARS h3(E), h4(E) & h5(E)



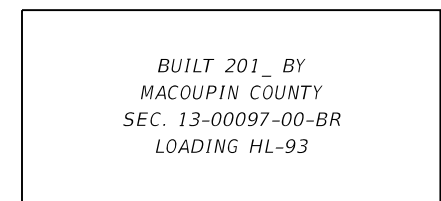
BAR a(E)



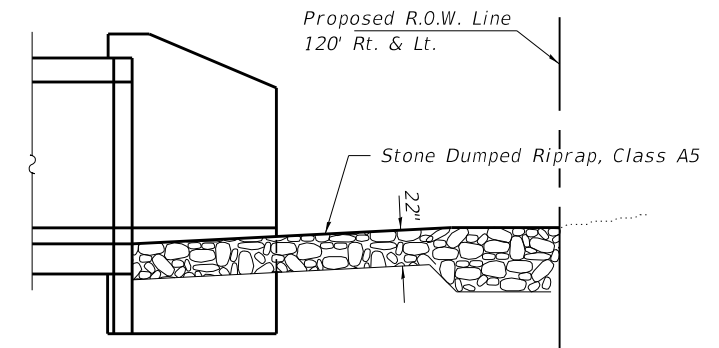
BACKFILL DETAIL



LOCATION SKETCH



NAME PLATE See Std. 515001



SECTION A-A

Drainage Area = 0.7 Sq. Mi.		Existing Low Grade Elev. 624.00 at Sta. 20+00 Proposed Low Grade Elev. 624.00 at Sta. 20+00							
Flood	Freq. Yr.	Q C.F.S.	Opening	Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.	Prop.	Headwater El.
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Prop.
	10	311	44	60	595.97	3.92	0.16	599.89	596.13
Design	20	390	44	60	596.28	4.77	0.48	601.05	596.76
Base	100	590	44	60	596.94	8.06	2.18	605.00	599.12
Max. Calc.	500	800	44	60	597.46	15.63	4.84	613.09	602.30



# SOIL BORING LOG

Page 1 of 2

ROUTE 734 C.H. 26 DESCRIPTION Bridge Replacement Boring Dorchester Road District LOGGED BY HW

Date 10/16/14

SECTION 13-00097-00-BR LOCATION 01NW/01SW, SEC. 1, TWP. 7N, RNG. 7W, 3<sup>rd</sup> PM

COUNTY Macoupin Co. Illinois DRILLING METHOD HSA HAMMER TYPE Hydraulic

STRUCT. NO. 059-3008  
Station 13-00097

BORING NO. B-1  
Station 13+4.20+0.3  
Offset 3.00ft L  
Ground Surface Elev. 617.00 ft

DEPTH (ft)	BLOWS (16")	UCS (tsf)	MOIST (%)	Surface Water Elev. ft	DEPTH (ft)	BLOWS (16")	UCS (tsf)	MOIST (%)
0					0			
3	3				3	4		
3		8.7			6	6	3.0	20.7
3					6	6	P	
3					3			
3					5	5	2.5	17.4
3					6	6	P	
3					3			
3					5	5	2.2	22.1
3					7	7	B	
3					3			
3					5	5	1.0	19.0
3					10	10	4.0	18.3
3					11	11	P	
3					4			
3					4	4	4.0	26.5
3					6	6	P	

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)

RRS. from 137 (Rev. 8-88)



# SOIL BORING LOG

Page 2 of 2

ROUTE 734 C.H. 26 DESCRIPTION Bridge Replacement Boring Dorchester Road District LOGGED BY HW

Date 10/16/14

SECTION 13-00097-00-BR LOCATION 01NW/01SW, SEC. 1, TWP. 7N, RNG. 7W, 3<sup>rd</sup> PM

COUNTY Macoupin Co. Illinois DRILLING METHOD HSA HAMMER TYPE Hydraulic

STRUCT. NO. 059-3008  
Station 13-00097

BORING NO. B-1  
Station 20  
Offset 3.00ft L  
Ground Surface Elev. 617.00 ft

DEPTH (ft)	BLOWS (16")	UCS (tsf)	MOIST (%)	Surface Water Elev. ft	DEPTH (ft)	BLOWS (16")	UCS (tsf)	MOIST (%)
0					0			
29					29	12	4.5	12.1
45					45	6	P	
200					200			
4.5					4.5	4.5	10.6	
567.00					567.00	60		

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)

RRS. from 137 (Rev. 8-88)

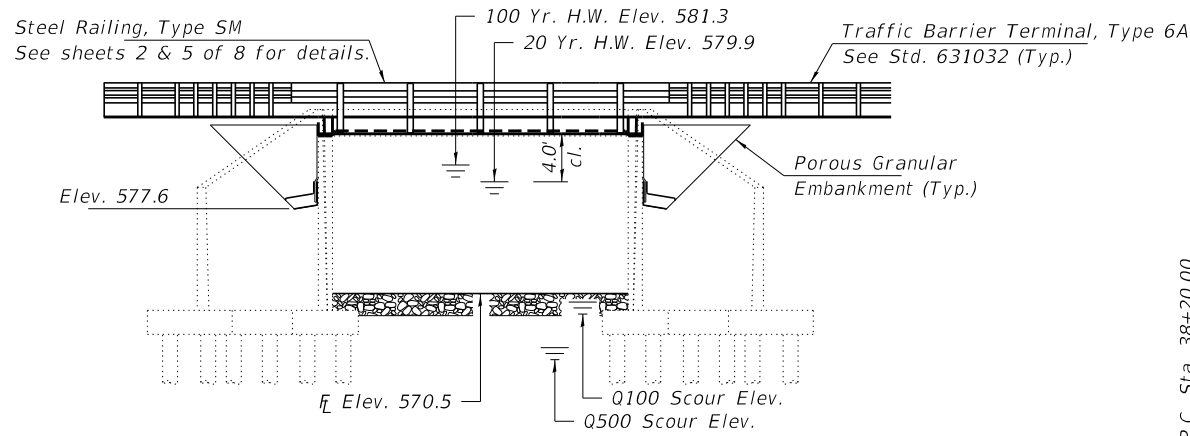
BORING-1



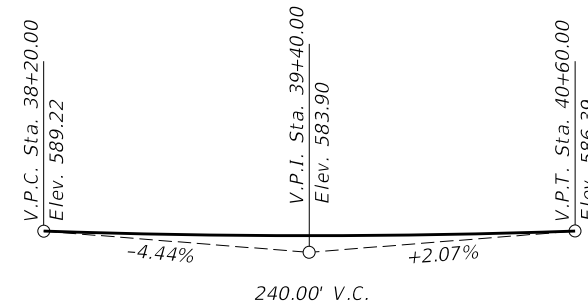
EXISTING STRUCTURE: Sta. 39+60.3, Str. No. 059-3008. Single span PPC deck beam bridge with concrete curb on closed concrete abutments and wingwalls, with timber pile supported footings. 25.00' fc.-fc. abuts.; 27.10' o.-o. deck

Structure closed to traffic during construction.

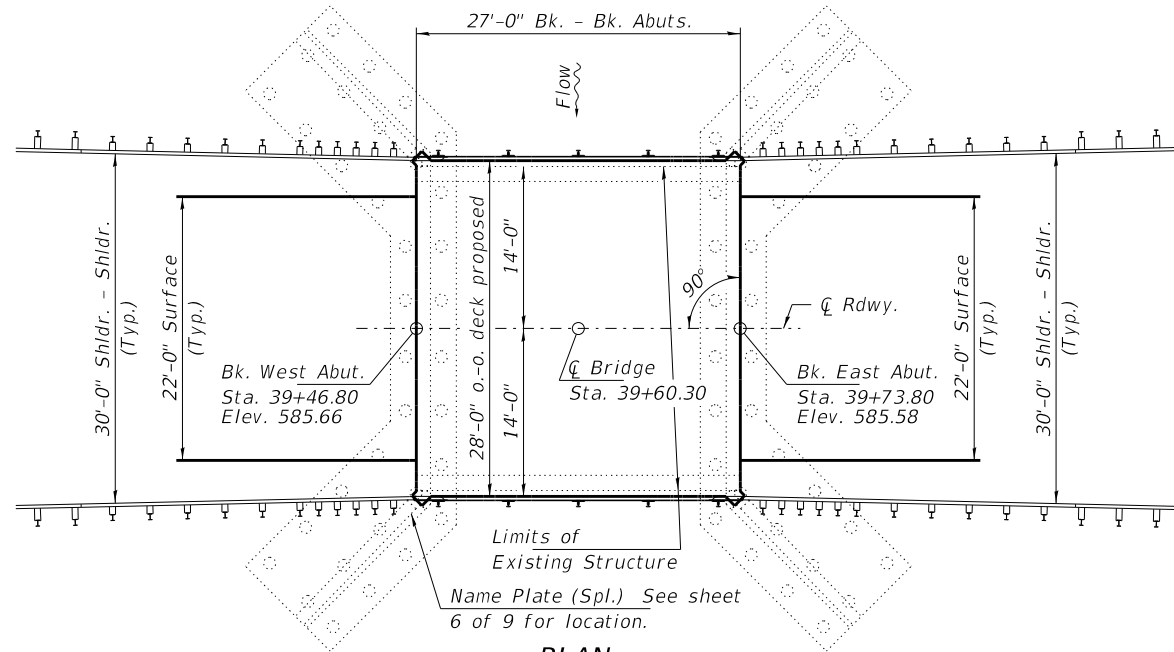
Existing concrete abutments shall be salvaged.



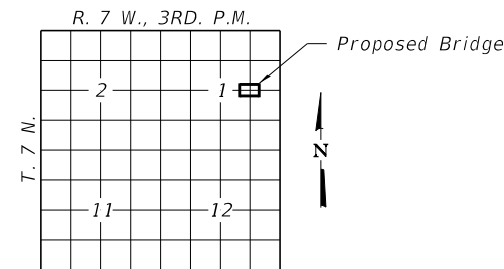
ELEVATION



PROFILE GRADE



PLAN



LOCATION SKETCH

INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. General Details
3. Slab Elevations
4. Superstructure
5. Steel Railing, Type SM
6. Abutments
- 7-9. Existing Plans

BIG BRANCH CREEK  
BUILT 202\_ BY  
C.H. 26 / F.A.S. 734  
MACOUPIN COUNTY  
SEC. 13-00097-00-BR  
STR. NO. 059-3008  
LOADING HL-93

NAME PLATE (SPECIAL)

See Std. 515001

DESIGN STRESSES

FIELD UNITS (NEW CONST.)

f'c = 3,500 psi  
f'c = 5,000 psi (\*Super.)  
fy = 60,000 psi (Reinf.)  
\*Superstructure concrete shall have a 28-day mix design with a compressive strength of 5,000 psi.

FIELD UNITS (EXIST. CONST.)

fc = 1,400 psi  
fs = 20,000 psi (Reinf.)

LOADING HL-93-SUPERSTRUCTURE

Allow 50#/Sq. Ft. for future wearing surface.

LOADING HS 20-44-SUBSTRUCTURE

(Existing Construction)

DESIGN SPECIFICATIONS

NEW CONSTRUCTION

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

DESIGN SCOUR ELEVATION TABLE

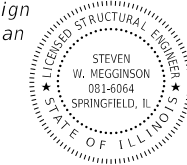
Event/Limit State	Design Scour Elev. (ft.)		Item 113
	W. Abut.	E. Abut.	
Q100	569.8	569.8	8
Q200	569.8	569.8	
Design	569.8	569.8	
Check	569.8	569.8	

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	20	1330	240	240	579.9	0.1	0.1	580.0	580.0
Base	100	1980	270	270	581.3	0.4	0.4	581.7	581.7

I certify that to the best of my knowledge, information and belief, this bridge superstructure 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 08/27/2020  
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064

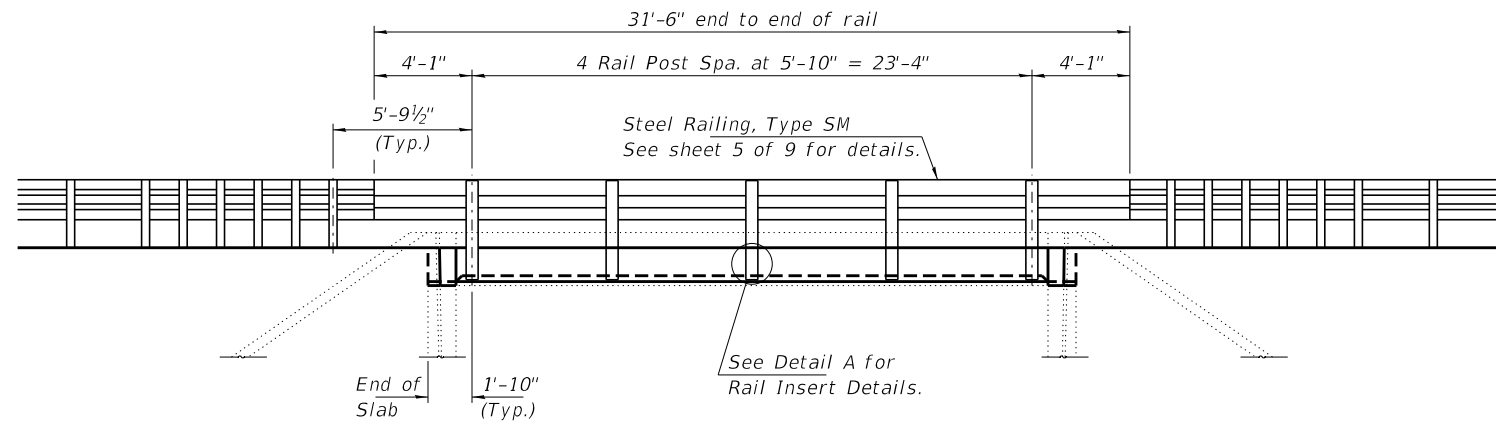


Expires 11-30-2020

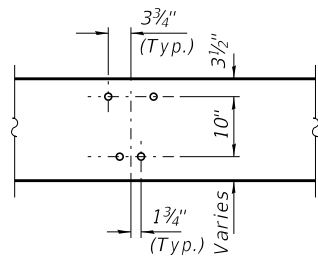
TOTAL BILL OF MATERIAL - BRIDGE

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Ton			52
Stone Dumped Riprap, Class A5	Ton			370
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		0.6	0.6
Structure Excavation	Cu. Yd.	30		30
Concrete Superstructures	Cu. Yd.	35.4		35.4
Bridge Deck Grooving	Sq. Yd.	78		78
Protective Coat	Sq. Yd.	84		84
Reinforcement Bars, Epoxy Coated	Pound	10,530		10,530
Steel Railing, Type SM	Foot	63		63
Geocomposite Wall Drain	Sq. Yd.	30		30
Name Plates (Special)	Each	1		1
Structural Repair of Concrete = < 5"	Sq. Ft.		13	13
Pipe Underdrains for Structures 4"	Foot	144		144

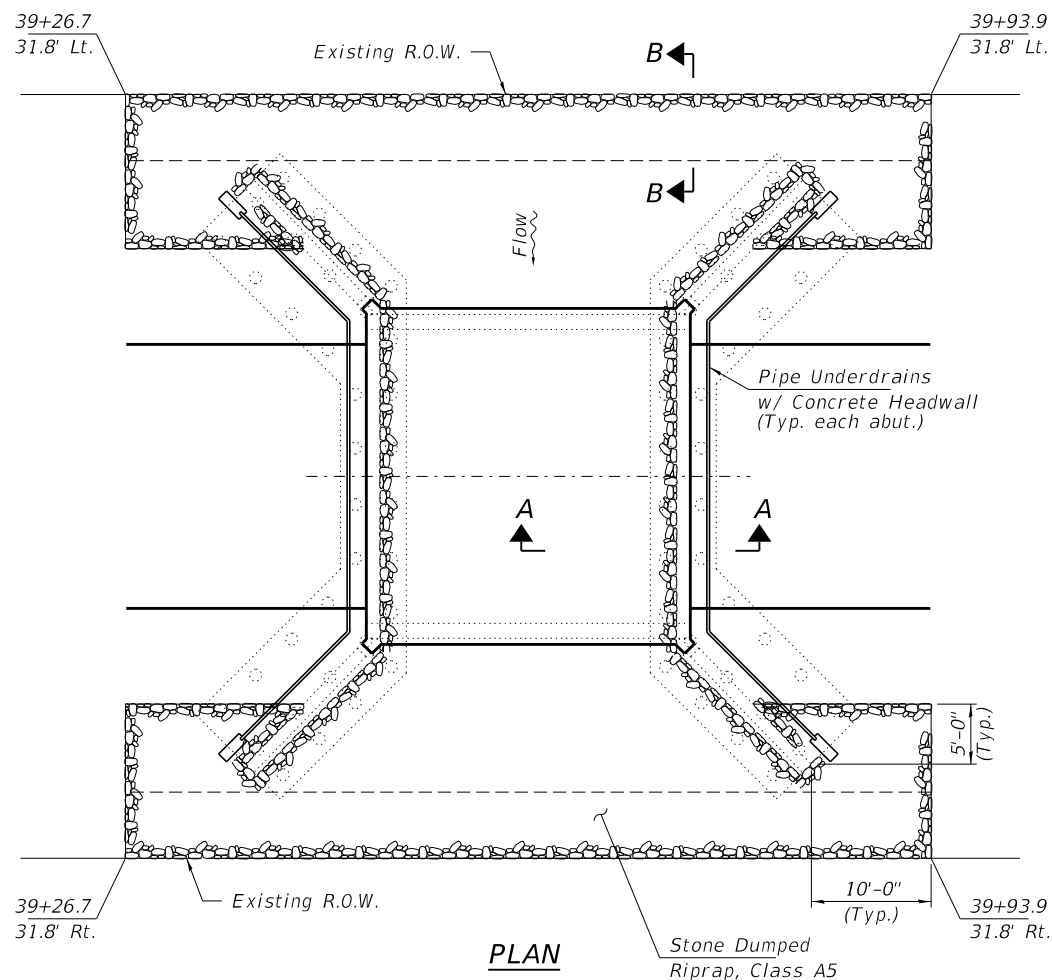




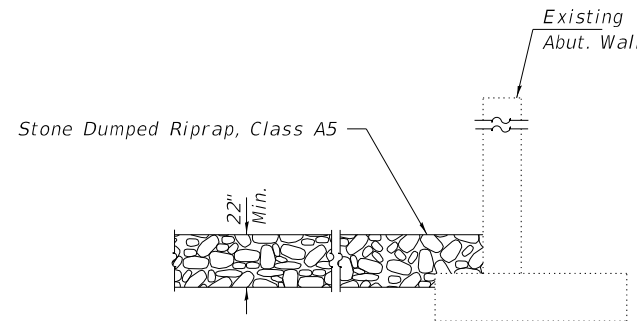
**ELEVATION**  
Showing Rail Post Spaces  
See sheet 5 of 9 for Railing Details.



**DETAIL A**

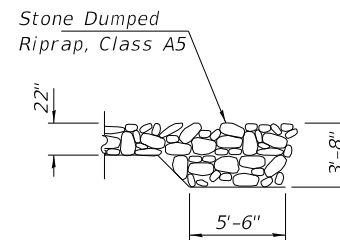


**PLAN**

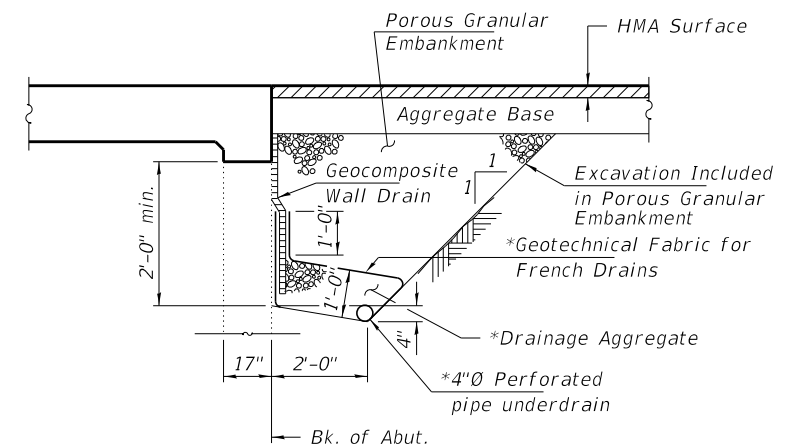


**SECTION A-A**

Note: See Special Provisions for Stone Dumped Riprap, Class A5.



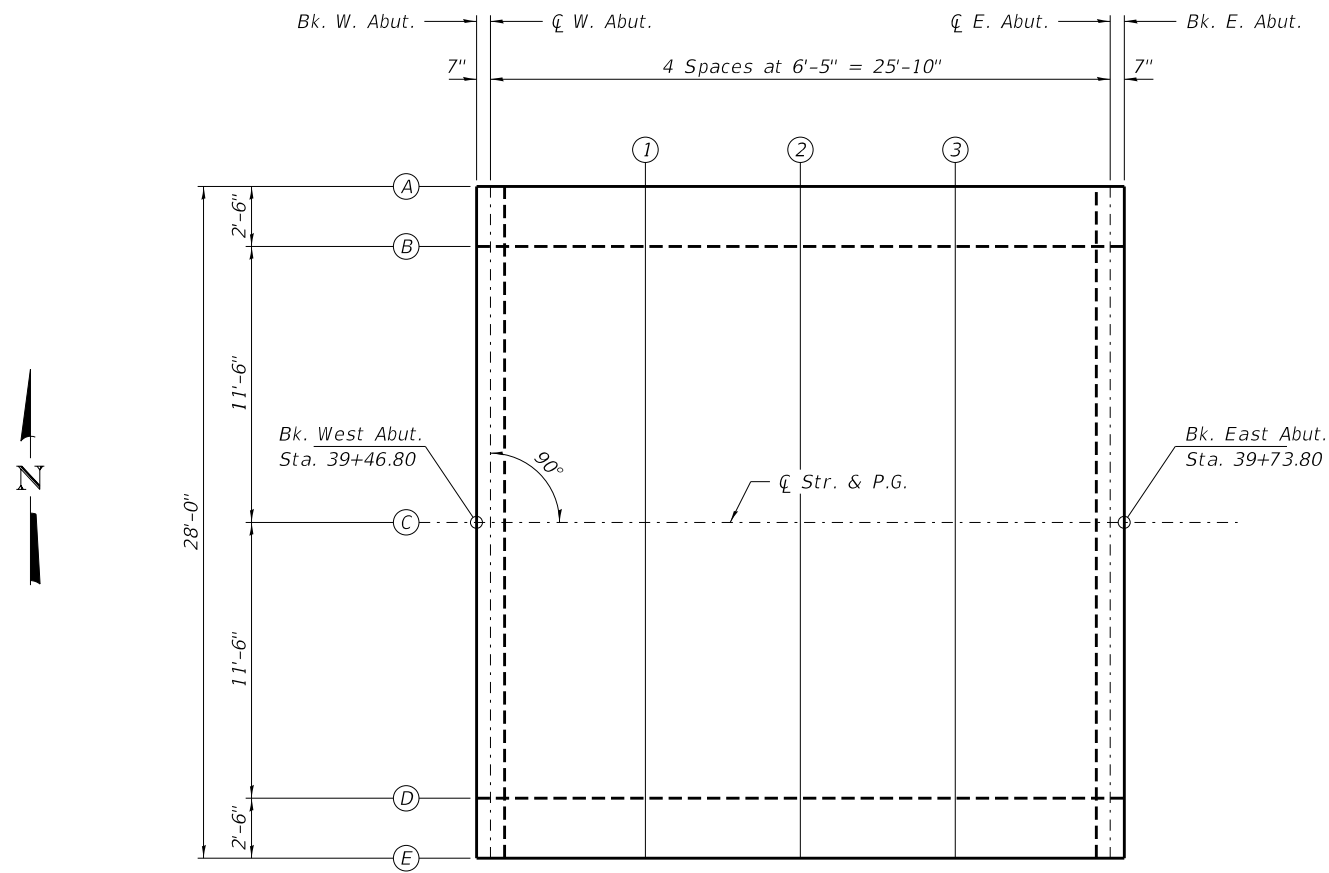
**SECTION B-B**



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

\* Included in the cost of Pipe Underdrains for Structures.  
Note:  
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

FILE NAME = 140022-shi-bridge.dgn	USER NAME = rthosick	DESIGNED - A.M.C.	REVISED -	<b>STATE OF ILLINOIS MACOUPIN COUNTY HIGHWAY DEPARTMENT</b>	<b>GENERAL DETAILS STRUCTURE NO. 059-3008</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.W.M.	REVISED -			734	13-00097-00-BR	MACOUPIN	50	17
PLOT SCALE = \$SCALE\$		DRAWN - R.D.H.	REVISED -			SAWYERVILLE HILLS ROAD / C.H. 26		CONTRACT NO. 93755		
PLOT DATE = 9/4/2020		CHECKED - S.W.M.	REVISED -			SHEET NO. 2 OF 9 SHEETS		ILLINOIS FED. AID PROJECT SNNH(023)		



PLAN

TABLE OF ELEVATIONS

LOCATION		BK. W. ABUT.	CL W. ABUT.	SPAN 1			CL E. ABUT.	BK. E. ABUT.
LINE	T.	585.487	585.481	585.423	585.377	585.342	585.318	585.316
A	ADJ.	585.487	585.481	585.423	585.378	585.342	585.318	585.316
Bott. of Slab		584.070	584.064	584.006	583.961	583.925	583.901	583.900

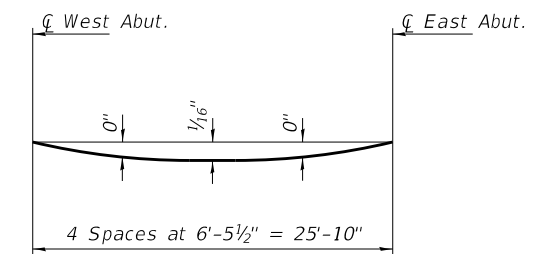
LOCATION		BK. W. ABUT.	CL W. ABUT.	SPAN 1			CL E. ABUT.	BK. E. ABUT.
LINE	T.	585.539	585.533	585.475	585.429	585.394	585.370	585.368
B	ADJ.	585.539	585.533	585.475	585.430	585.394	585.370	585.368
Bott. of Slab		584.372	584.366	584.309	584.263	584.227	584.203	584.202

LOCATION		BK. W. ABUT.	CL W. ABUT.	SPAN 1			CL E. ABUT.	BK. E. ABUT.
LINE	T.	585.778	585.773	585.715	585.668	585.633	585.609	585.608
C	ADJ.	585.778 <td>585.773 <td>585.715 <td>585.669 <td>585.633 <td>585.609 <td>585.608</td> </td></td></td></td></td>	585.773 <td>585.715 <td>585.669 <td>585.633 <td>585.609 <td>585.608</td> </td></td></td></td>	585.715 <td>585.669 <td>585.633 <td>585.609 <td>585.608</td> </td></td></td>	585.669 <td>585.633 <td>585.609 <td>585.608</td> </td></td>	585.633 <td>585.609 <td>585.608</td> </td>	585.609 <td>585.608</td>	585.608
Bott. of Slab		584.612	584.606	584.548	584.503	584.467	584.443	584.441

LOCATION		BK. W. ABUT.	CL W. ABUT.	SPAN 1			CL E. ABUT.	BK. E. ABUT.
LINE	T.	585.539	585.533	585.475	585.429	585.394	585.370	585.368
D	ADJ.	585.539 <td>585.533 <td>585.475 <td>585.430</td> <td>585.394</td> <td>585.370</td> <td>585.368</td> </td></td>	585.533 <td>585.475 <td>585.430</td> <td>585.394</td> <td>585.370</td> <td>585.368</td> </td>	585.475 <td>585.430</td> <td>585.394</td> <td>585.370</td> <td>585.368</td>	585.430	585.394	585.370	585.368
Bott. of Slab		584.372	584.366	584.309	584.263	584.227	584.203	584.202

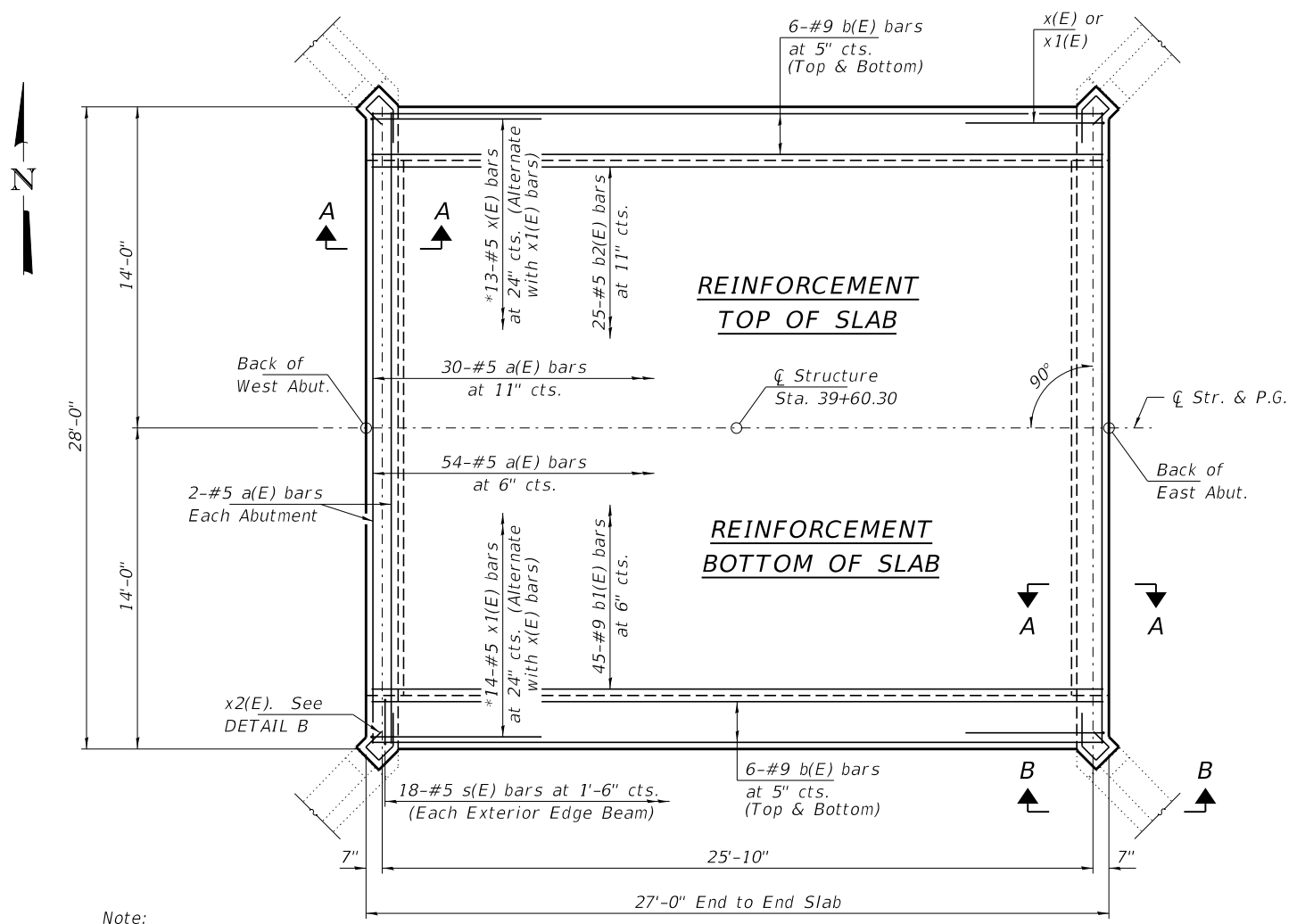
LOCATION		BK. W. ABUT.	CL W. ABUT.	SPAN 1			CL E. ABUT.	BK. E. ABUT.
LINE	T.	585.487	585.481	585.423	585.377	585.342	585.318	585.316
E	ADJ.	585.487 <td>585.481 <td>585.423 <td>585.378</td> <td>585.342</td> <td>585.318</td> <td>585.316</td> </td></td>	585.481 <td>585.423 <td>585.378</td> <td>585.342</td> <td>585.318</td> <td>585.316</td> </td>	585.423 <td>585.378</td> <td>585.342</td> <td>585.318</td> <td>585.316</td>	585.378	585.342	585.318	585.316
Bott. of Slab		584.070	584.064	584.006	583.961	583.925	583.901	583.900

T. - Theoretical elevation at top of slab  
 Adj. - T adjusted for dead load deflection  
 \* Bottom of slab elevation equals bottom of 14" slab  
 \*\* Bottom of slab elevation equals bottom of edge beam



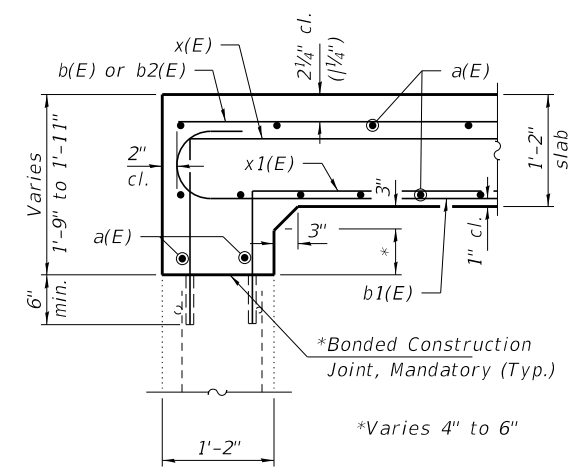
DEAD LOAD DEFLECTION DIAGRAM  
 (Includes weight of concrete only.)

Notes:  
 The deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown.  
 The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework in addition to allowance for dead load deflection.



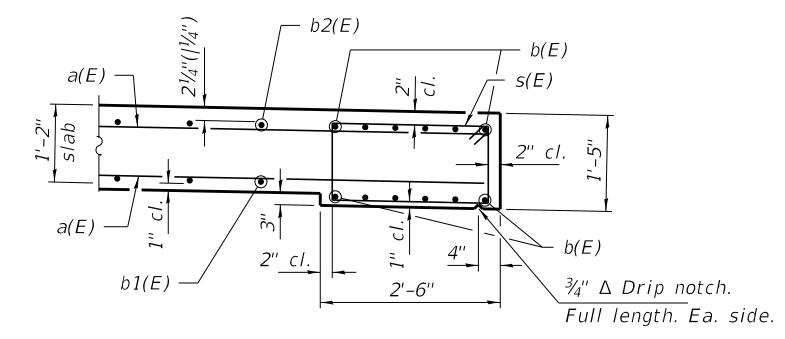
Note:  
\*See sheet 6 of 9 for x(E) and x1(E) bar locations and details, to be set in abutment walls.

**PLAN**

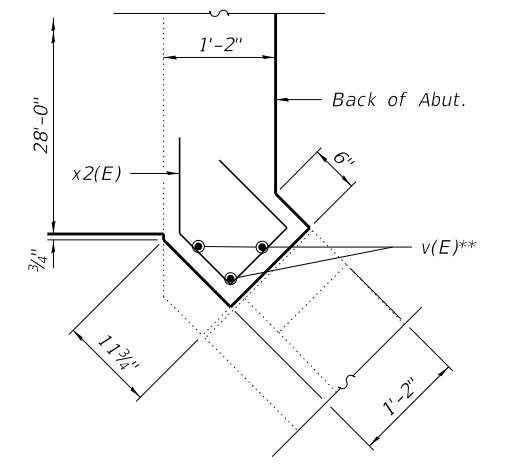


**SECTION A-A**

\*See Section 503 of the Standard Specifications for surface prep work on the existing bearing seat.

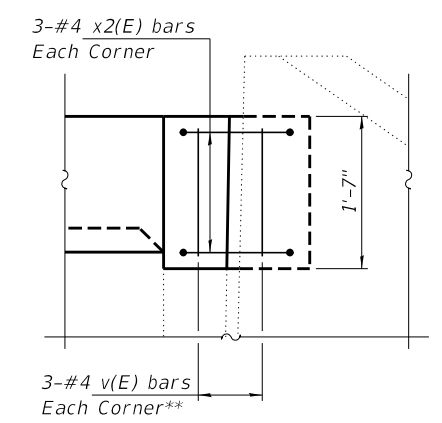


**DETAIL A**

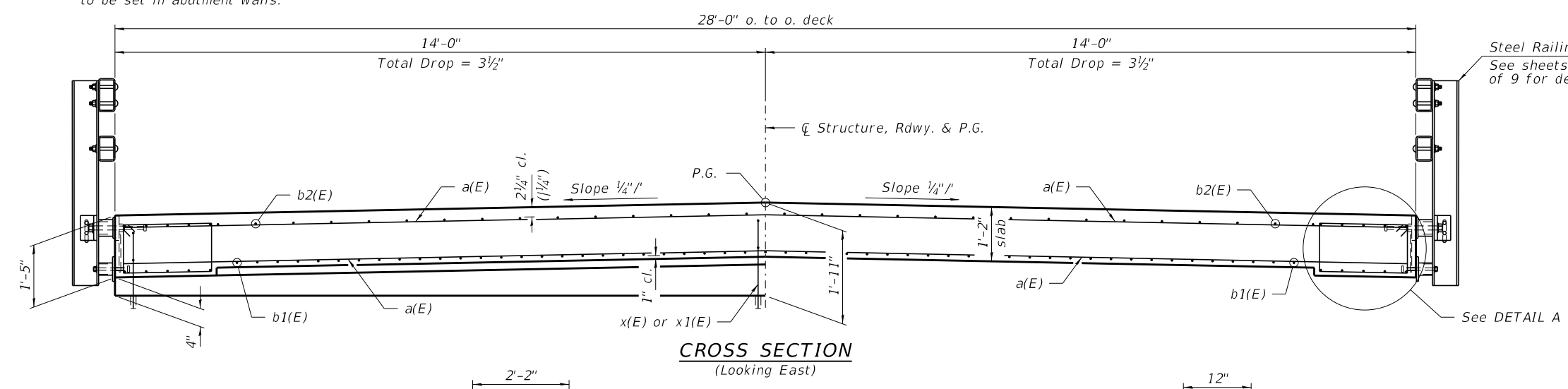


**CORNER DETAIL**  
(Typ. all corners)

\*\* Cut v(E) bars in field as needed.

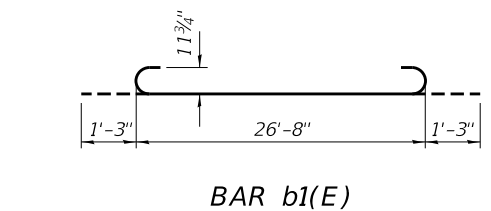


**DETAIL B**

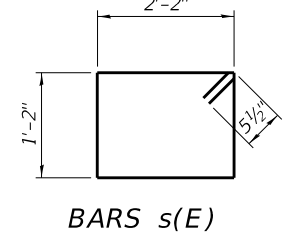


**CROSS SECTION**  
(Looking East)

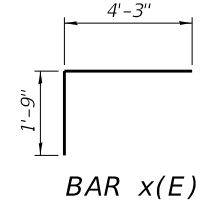
Steel Railing, Type SM  
See sheets 2 & 5 of 9 for details.



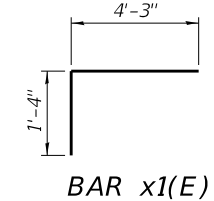
**BAR b1(E)**



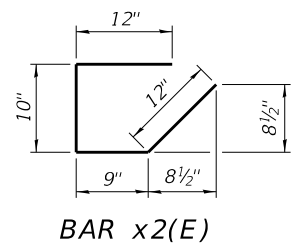
**BARS s(E)**



**BAR x(E)**



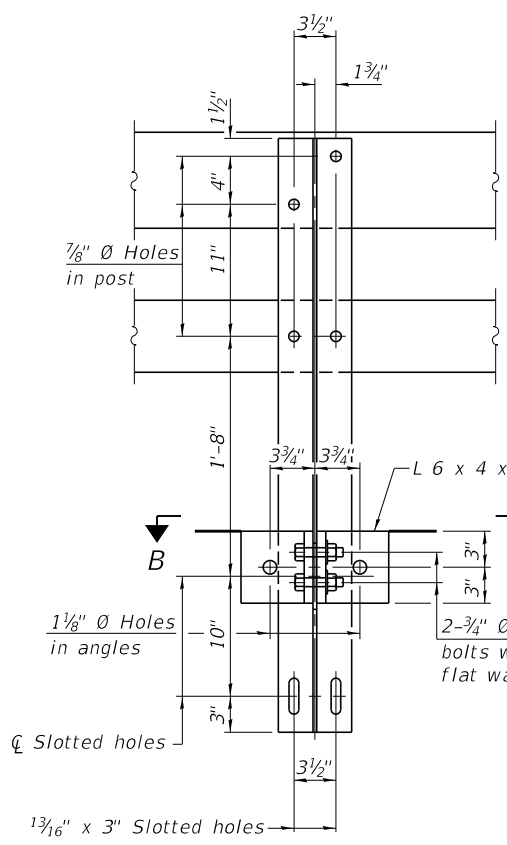
**BAR x1(E)**



**BAR x2(E)**

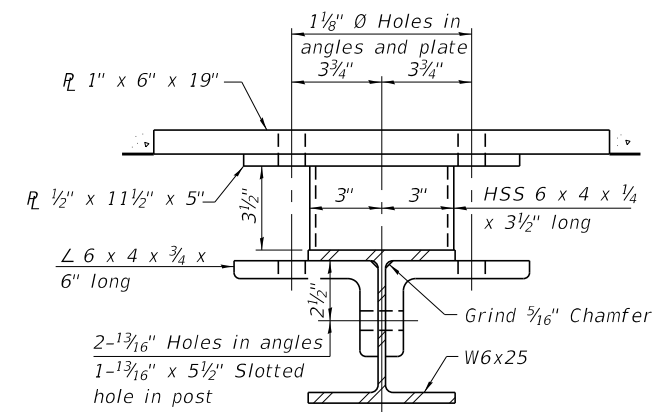
**SUPERSTRUCTURE BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	88	#5	27'-8"	—
b(E)	24	#9	26'-8"	—
b1(E)	45	#9	29'-2"	U
b2(E)	25	#5	26'-8"	—
s(E)	36	#5	7'-10"	□
v(E)	12	#4	1'-3"	—
x(E)	26	#5	6'-0"	L
x1(E)	28	#5	5'-7"	L
x2(E)	12	#4	3'-7"	∩
Concrete Superstructure			Cu. Yd.	35.4
Bridge Deck Grooving			Sq. Yd.	78
Protective Coat			Sq. Yd.	84
Reinf. Bars, Epoxy Coated			Pound	10,530

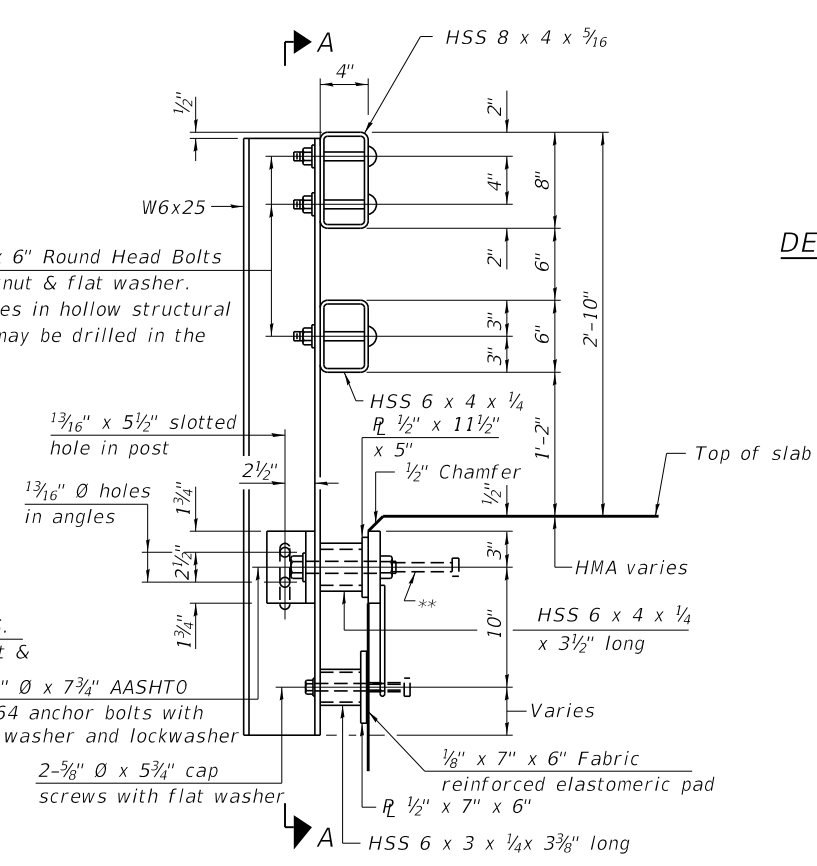
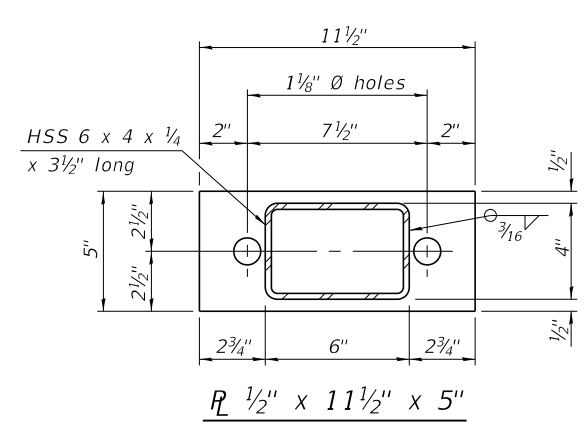


4- $\frac{3}{4}$ "  $\varnothing$  x 6" Round Head Bolts with locknut & flat washer.  
 $\frac{7}{8}$ "  $\varnothing$  holes in hollow structural section may be drilled in the field.

SECTION A-A

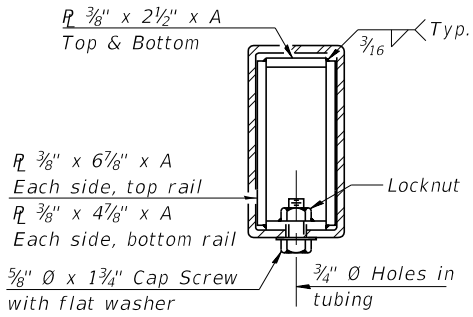
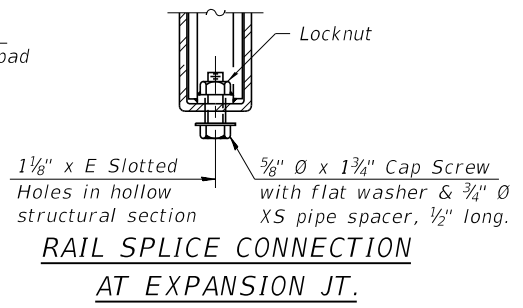
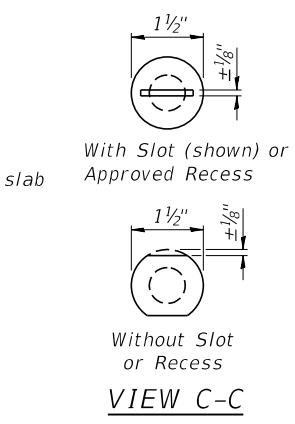
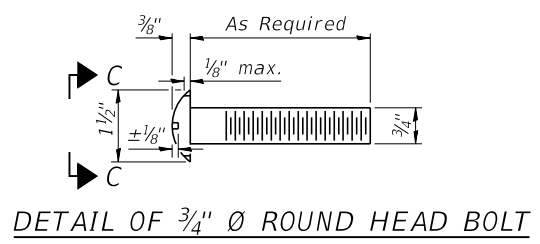


SECTION B-B

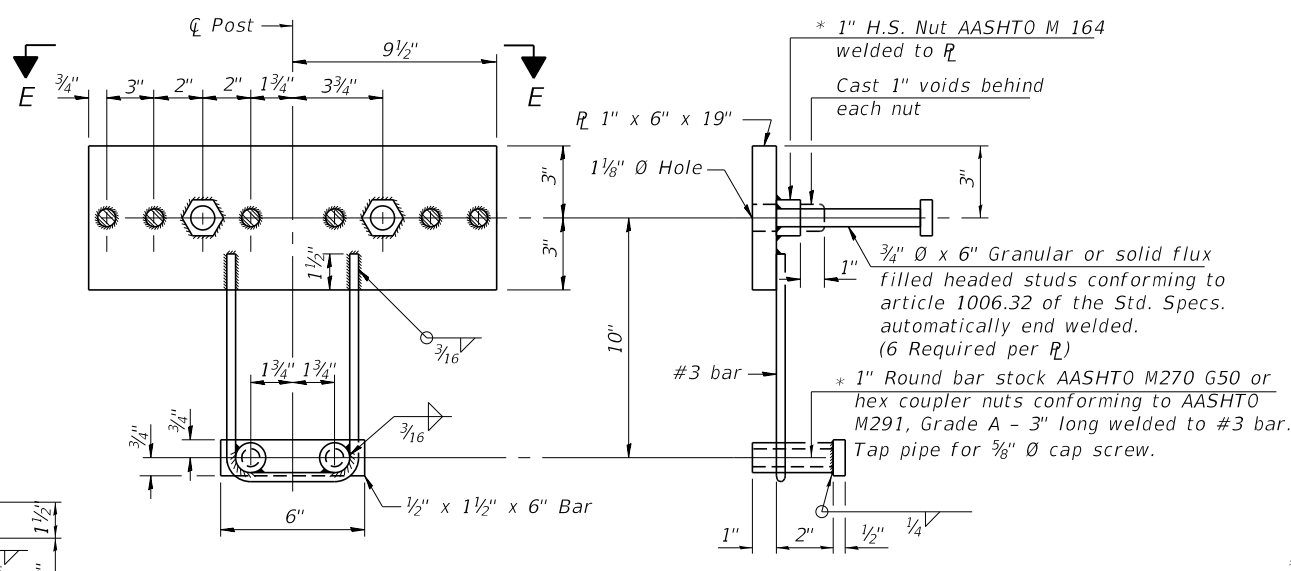
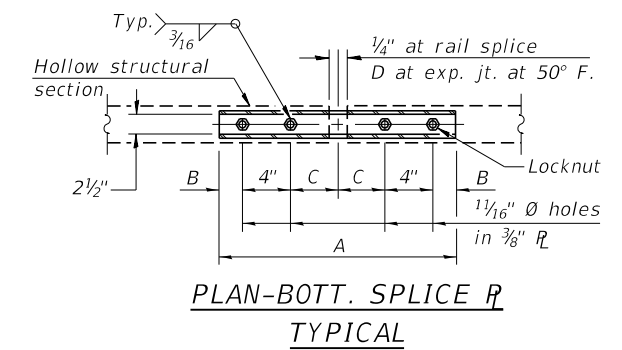
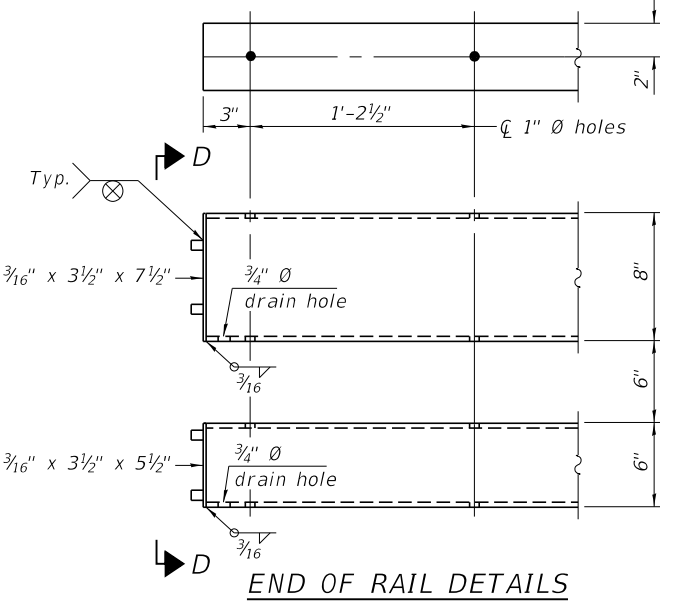


Reinforcement bars in the top of the slab may be placed with a  $1\frac{1}{2}$ " minimum clearance in the area of the rail post anchor devices. The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

SECTION AT RAIL POST



SECTION AT RAIL SPLICE



\*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

SPLICE DIMENSIONS

T	D	A	B	C	E
$\leq 4"$	$2\frac{1}{2}"$	1'-8"	2"	4"	$2\frac{1}{2}"$
$> 4" \leq 6\frac{1}{2}"$	$3\frac{3}{4}"$	2'-0"	$2\frac{1}{2}"$	$5\frac{1}{2}"$	$3\frac{1}{2}"$
$> 6\frac{1}{2}" \leq 9"$	5"	2'-4"	$3\frac{1}{2}"$	$6\frac{1}{2}"$	9"
$> 9" \leq 13"$	7"	2'-10"	$4\frac{1}{2}"$	$8\frac{1}{2}"$	11"
Rail Splice	$\frac{1}{4}"$	1'-8"	2"	4"	

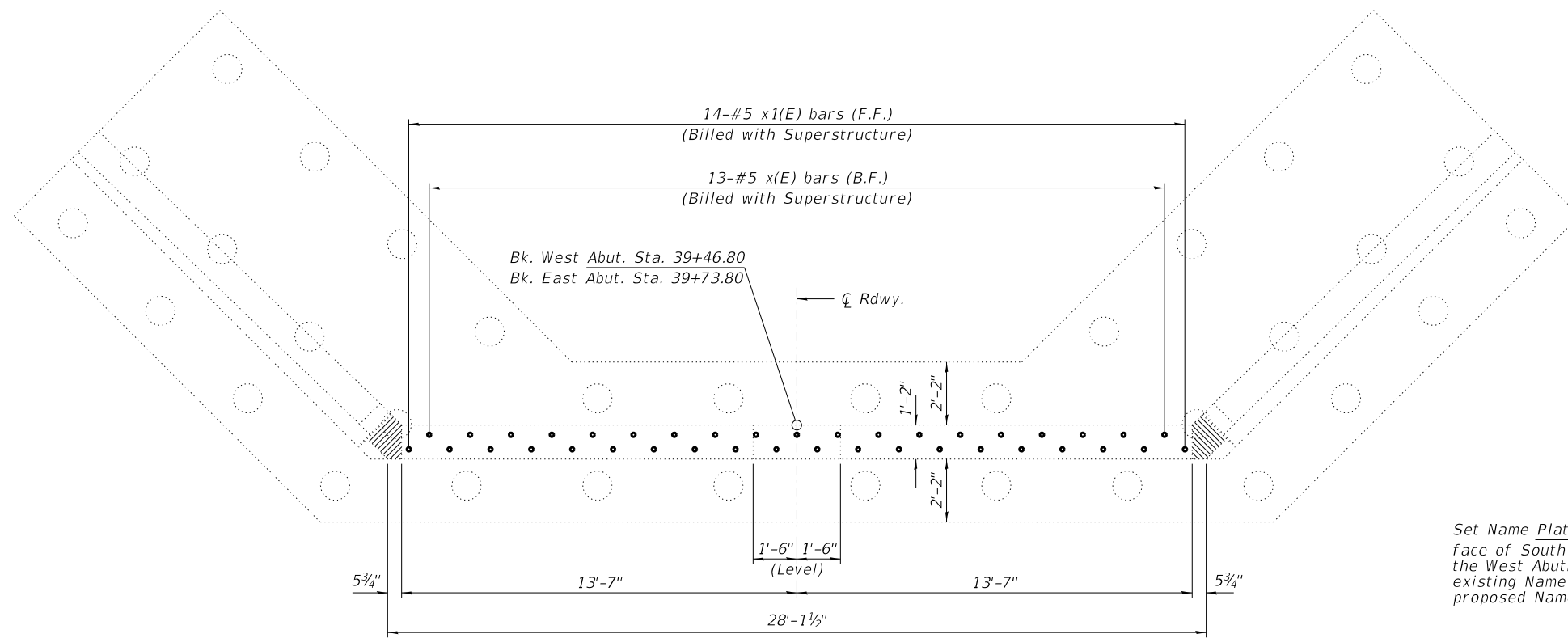
T = Total movement at expansion joint as shown on the design plans.

Notes:  
 For multi-span bridges, sufficient  $\frac{1}{4}$ " x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.  
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.  
 \*\* The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device. The anchorage studs may be bent down  $\frac{1}{2}"$  to accommodate the top reinforcement bar placement.

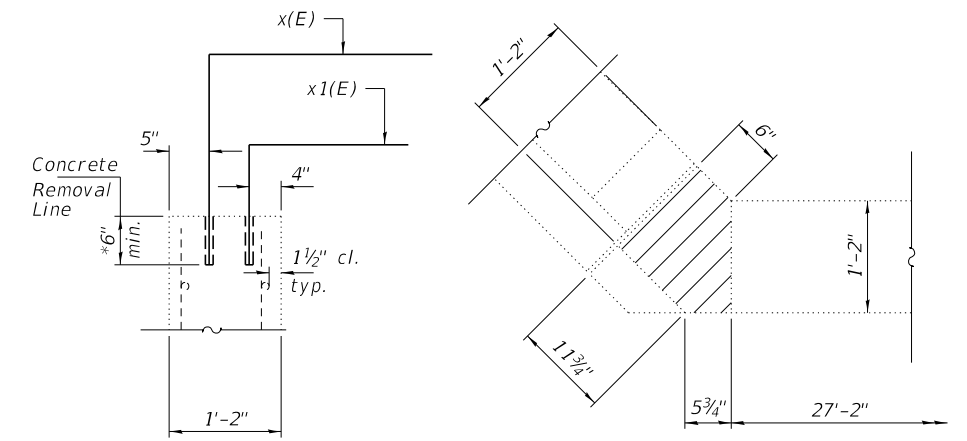
BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	63

R-34HMAWS 8-11-2017 (6'-3" Maximum Post Spacing) ( $1\frac{1}{4}"$  minimum to  $3\frac{1}{8}"$  maximum HMA thickness)



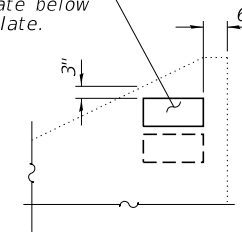
**PLAN**



**SECTION A-A**

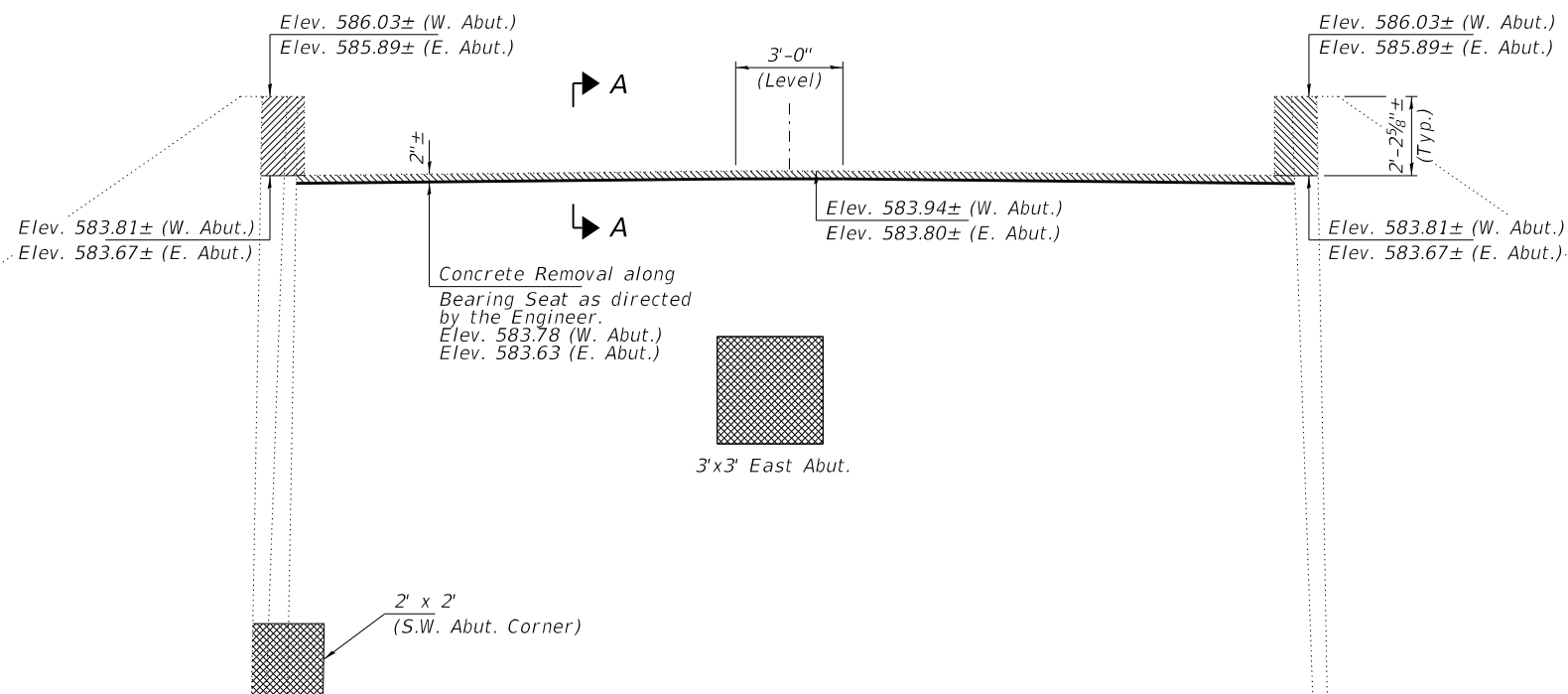
**CORNER DETAIL**  
(Typ. all corners)

Set Name Plate in outside face of South Wing of the West Abutment. Place existing Name Plate below proposed Name Plate.



**NAME PLATE LOCATION**

**Notes:**  
 Upon removal of the existing superstructure, the bearing areas of the abutments and piers shall be inspected by the Engineer. Surface areas deemed unsound by the Engineer shall be repaired as described in these Notes. Existing vertical reinforcing to remain in place. If vertical reinforcing is damaged, it shall be replaced, at the Contractor's expense. Replacement bars shall be drilled and grouted as detailed on sheet 5 of 15. The areas to be repaired shall have all loose, unsound concrete removed completely by the use of an electric chisel or other mechanical tools approved by the Engineer. All exposed reinforcing bars shall be thoroughly cleaned and undercut to a depth that will permit a minimum of one inch (1") of plastic concrete over the reinforcing bars. When removing the existing concrete, the contractor shall provide a 1" deep saw cut along the outside edge of the repair area. After removing the unsound concrete from the surface, the contractor shall thoroughly clean by sandblasting all areas involved. This work will be paid for at the contract unit price per cubic yard of Concrete Removal. The formwork shall provide a smooth and uniform concrete finish most nearly matching the existing surface of the concrete structures. Formwork shall be completely mortar tight and closely fitted where they adjoin the existing concrete surface to prevent leakage. The Contractor may use exterior vibration, as approved by the Engineer, to release air pockets that may be entrapped. Spall repair concrete shall be poured monolithically with Cap Extension. Formwork and concrete placement will be paid for at the contract unit price per cubic yard of Concrete Superstructures.



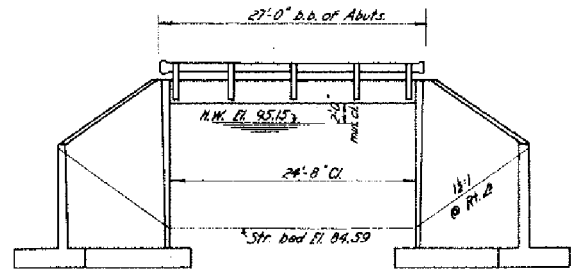
**ELEVATION**

- Hatched area indicates Concrete Removal
- Hatched area indicates Concrete Repair

**BILL OF MATERIAL - 2 ABUTS.**

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	0.6
Structural Repair of Concrete = < 5"	Sq. Ft.	13

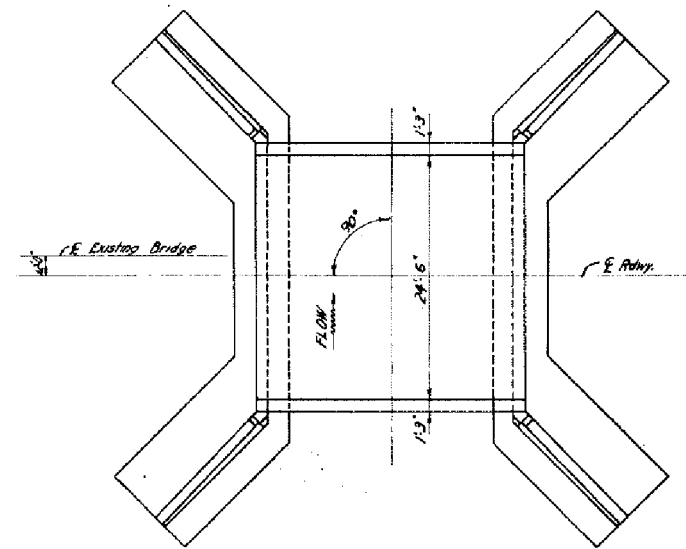
B.M. - RKN @ base of utility pole 54'  
East of existing bridge. Elev. 99.84  
Exist. Structure - 1 span 2-bm @ 26', 13.5' Retwy,  
timber floor, 1-timber abut @ 1' cont. abut.  
Salvageable material to become the  
property of Dorchester Twp.



**ELEVATION**  
Scale of 1/4" = 1'-0"

**WATERWAY INFORMATION**

Drainage Area 2944 Acres  
Character rolling, wooded & cultivated  
Present Bridge 260 sq. ft.  
Proposed Bridge 260 sq. ft.



**PLAN**  
Scale of 1/4" = 1'-0"

BIG BRANCH  
SEC. 28 Built 1955  
DORCHESTER TWP  
MACOUPIN CO  
LOADING HIS-512

**LETTERING FOR NAME PLATE**  
SEE STD. 2113

**STRESSES**

f<sub>c</sub> = 2,000 p.s.i. super  
f<sub>c</sub> = 800 p.s.i. sub.  
f<sub>s</sub> = 20,000 p.s.i. reinf.  
f<sub>s</sub> = 180,000 p.s.i. prestress cables  
HIS-512 Loading

**GENERAL NOTES**

For item "Prestressed Concrete Bridge Deck" see Special Provisions.  
Class X concrete shall be used in abutments and curbs.  
Bridge rail and posts shall receive one coat of red lead paint and two field coats of aluminum paint.  
Each rail shall have a curved metal section at each end.  
The back of the abutments and wing walls shall be waterproofed. See Art. 31.20 of the Standard Specifications.  
Curbs shall not be poured until after beams have received prestressing force.  
Cost of curbs shall be included in item "Prestressed Concrete Bridge Deck".  
The contractor shall drive one test pile in a permanent location as directed by the engineer before ordering remainder of piles.  
No backfill or embankment shall be placed until the beams are in place and the dowels grouted in place. See Art. 30.10 of the Standard Specifications.

**TOTAL BILL OF MATERIAL**

Item	Super	Sub	Total
Class X Concrete	Cu Yds -	1392.5	1392.5
Prestressed Concrete Bridge Deck	Sq. Ft. 720	-	720
Metal Plate Bridge Rail	Ln. Ft. 54	-	54
Bituminous Materials (Seal Coat)	Gals 15	-	15
Seal Coat Aggregate	Tons 0.7	-	0.7
Reinforcement Bars	Lbs -	10330	10330
Name Plates	Each 1	-	1
Removal of Existing Structures	Each -	-	1
Untreated Timber Piles	Ln. Ft. -	1189	1189
Test Piles	Each -	1	1

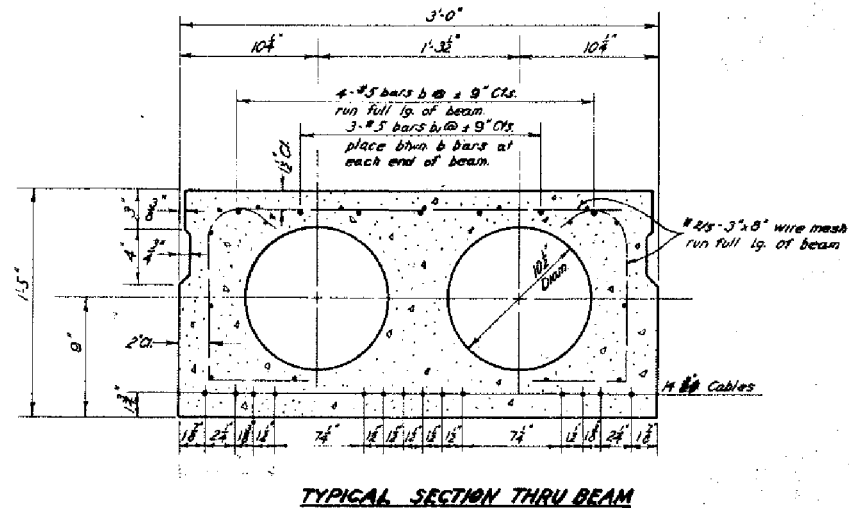
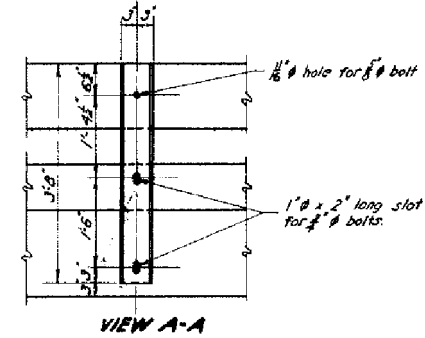
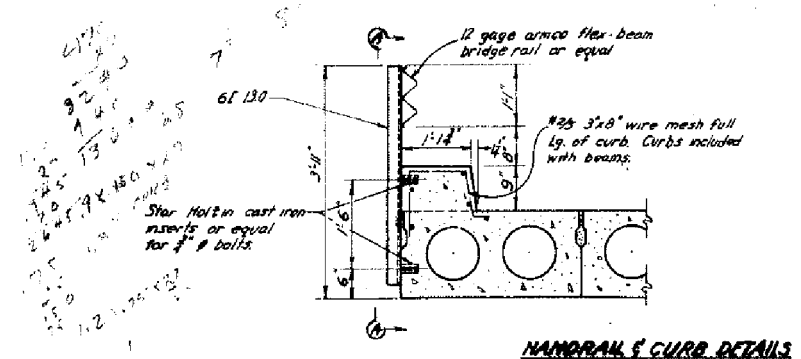
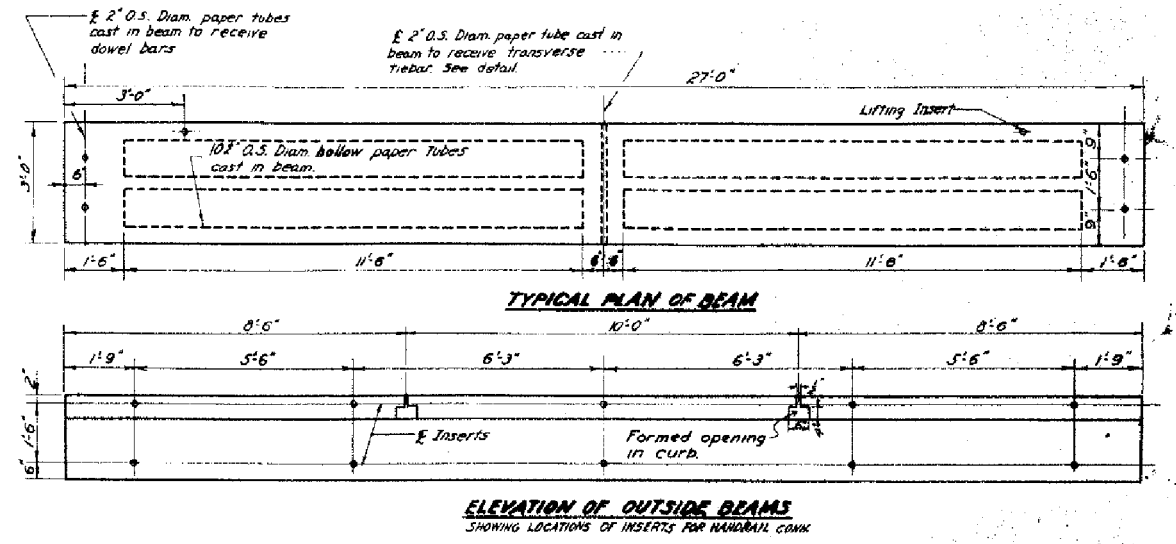
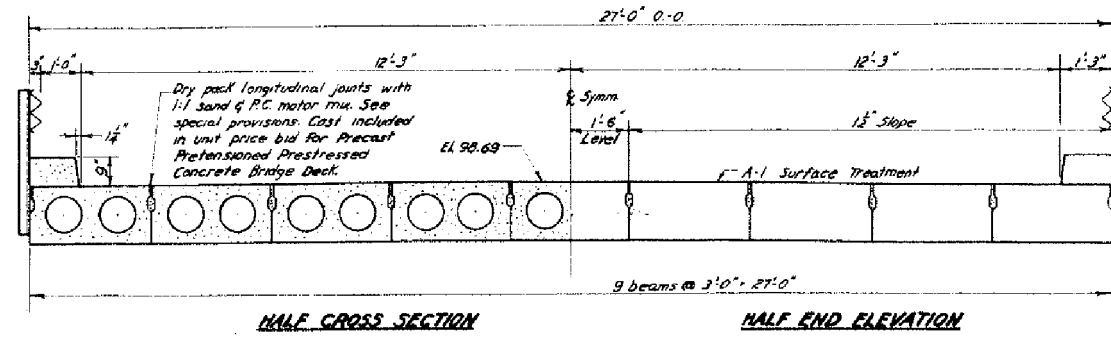
Str. No. 059-3008

**GENERAL PLAN & ELEVATION  
SECTION 28  
DORCHESTER TWP  
MACOUPIN CO.**

W.E. HANSON & ASSOCIATES  
CONSULTING ENGINEERS

Designed MJA Draw MJA Checked RBC Date 8-16-55

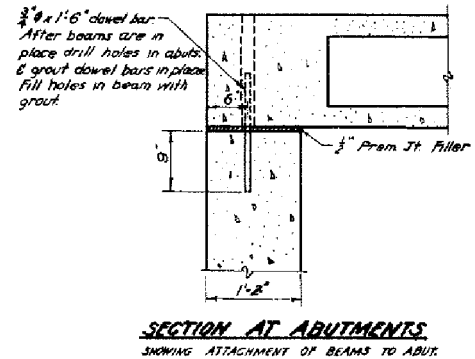
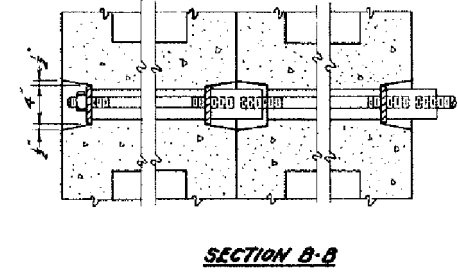
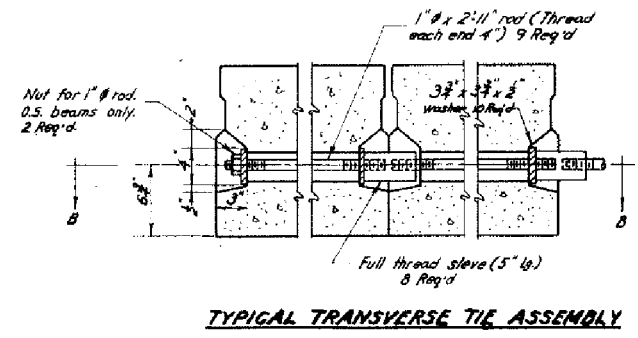
(Sheet 1 of 3)



**BILL OF MATERIAL - SUPERSTRUCTURE**

BAR	NO.	SIZE	LENGTH	SHAPE
b	36	#5	26'-6"	
b	36	#5	6'-6"	
Precast Prestressed Prestressed Concrete Bridge Deck				
Concrete Bridge Deck				
Metal Plate Bridge Deck				
Bituminous Materials (Seal Coat)				
Seal Coat Aggregate				

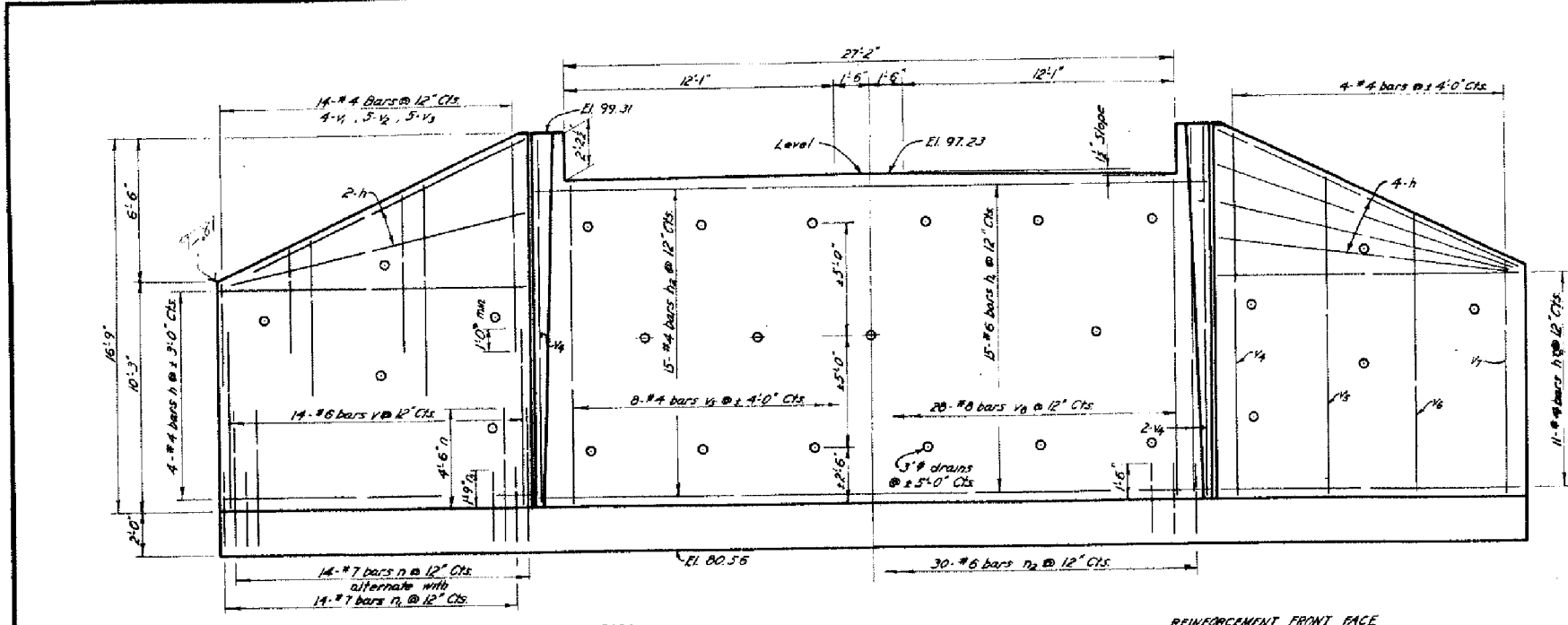
Reinforcement bars are incidental to the item "Precast Prestressed Concrete Bridge Deck."



**SUPERSTRUCTURE SECTION 2B**  
**DORCHESTER TWP. MACOUPIN CO.**

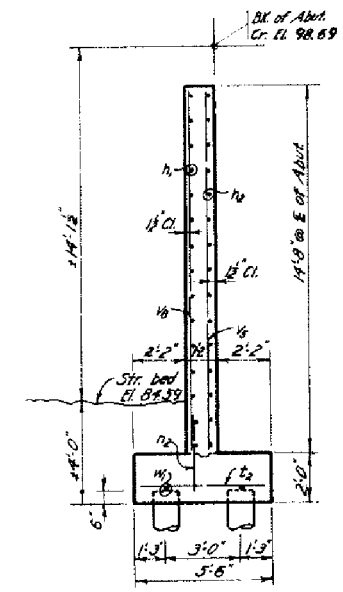
W.E. HANSON & ASSOCIATES  
 CONSULTING ENGINEERS

Designed *MJR* Draw *BOC* Checked *RAC* Date *8-16-50*

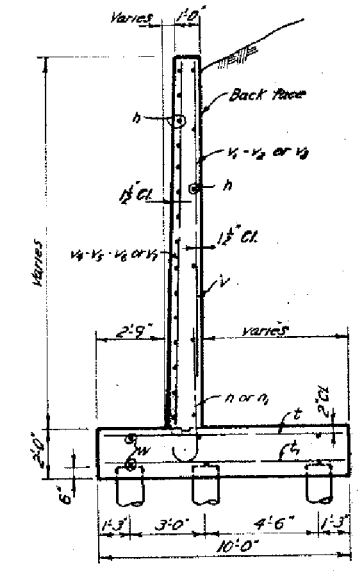


REINFORCEMENT BACK FACE REINFORCEMENT FRONT FACE

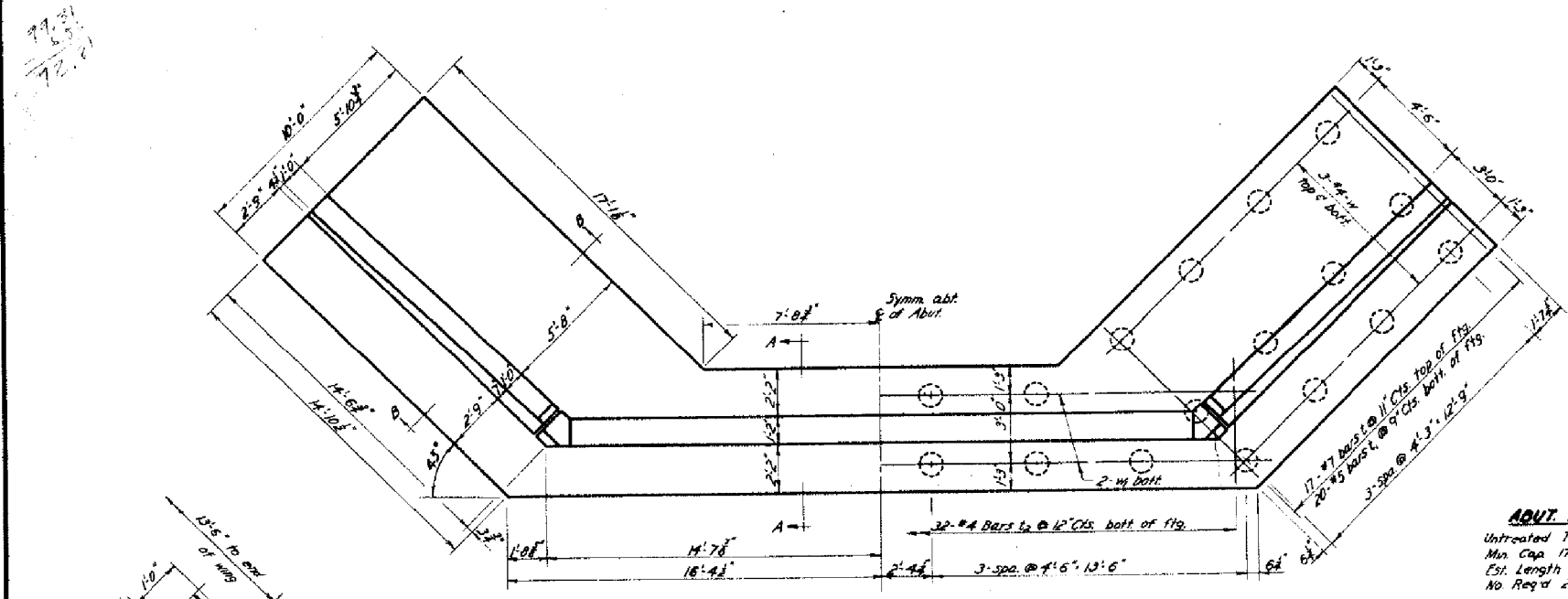
ELEVATION



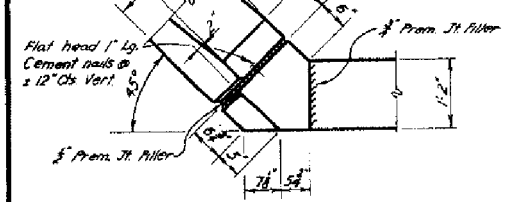
SECTION A-A



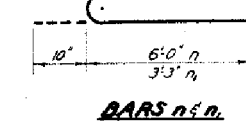
SECTION B-B



PLAN



CORNER DETAILS



BARS n.s.d.

**ABUT. PILES**  
 Untreated Timber  
 Min. Cap 17 Tons  
 Est. Length 17'  
 No. Req'd 2 Abut. 68

BILL OF MATERIAL - 2 ABUTMENTS

BAR	NO.	SIZE	LENGTH	SHAPE
v	56	#6	8'-0"	---
v	16	#4	4'-6"	---
v	20	#4	7'-0"	---
v	20	#4	9'-6"	---
v	18	#4	16'-6"	---
v	20	#4	14'-3"	---
v	4	#4	12'-6"	---
v	4	#4	10'-6"	---
v	36	#8	14'-3"	---
h	84	#4	13'-9"	---
h	30	#6	23'-0"	---
h	30	#4	28'-6"	---
n	36	#7	6'-10"	C
n	36	#7	4'-1"	C
n	60	#6	3'-0"	---
t	60	#7	9'-9"	---
t	80	#5	9'-9"	---
t	64	#4	5'-3"	---
w	24	#4	15'-0"	---
w	8	#4	17'-0"	---
Class 1 Concrete				Qty. Yds 139.5
Reinforcement Bars				Lbs 10,350
Untreated Timber Piles				Lin. Ft. 1188
Test Piles				Each 1

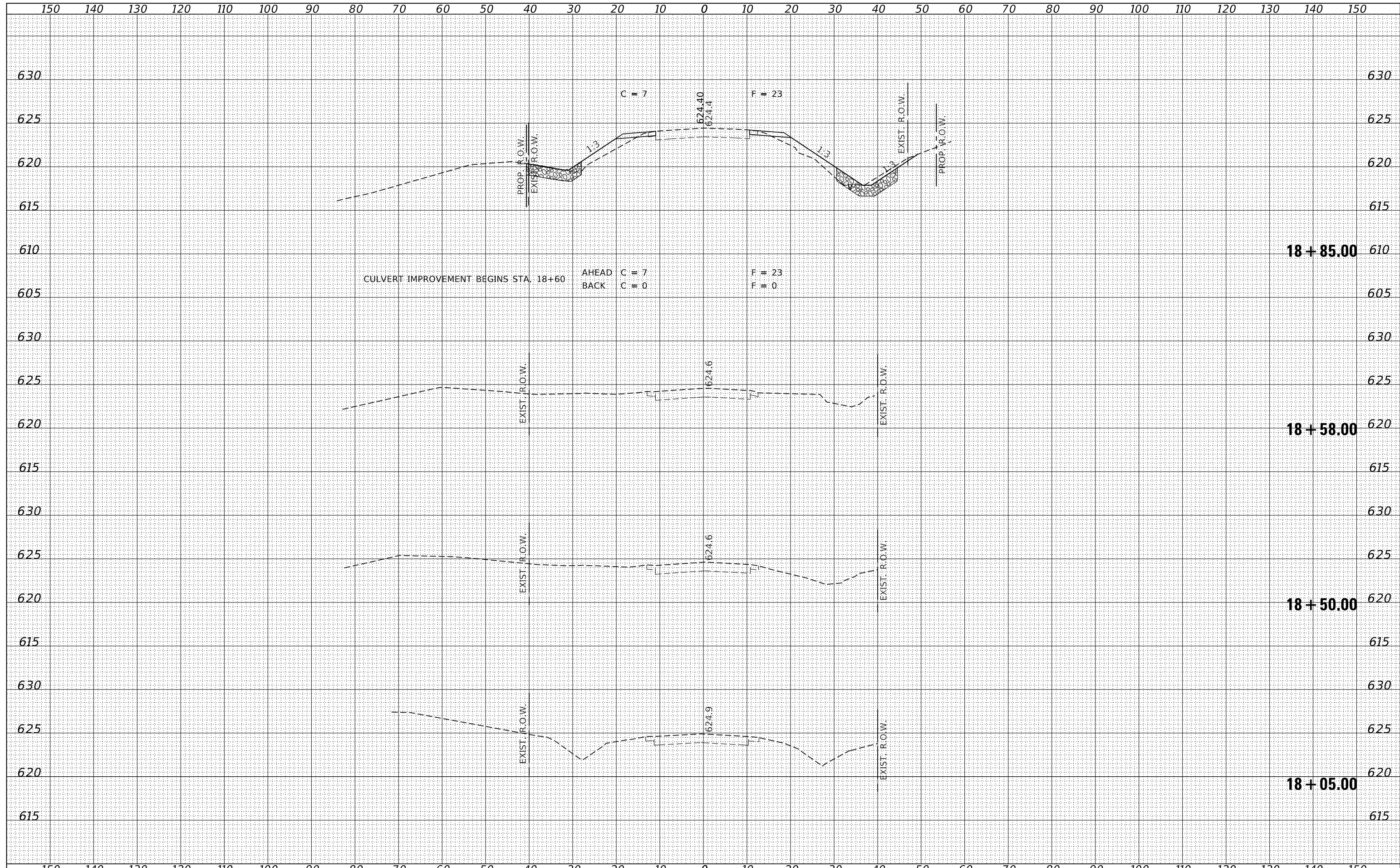
**ABUTMENTS SECTION 2B DORCHESTER TWP. MACOUPIN CO.**  
 W.E. HANSON & ASSOCIATES CONSULTING ENGINEERS  
 Designed M.J.R. Drawn M.J.R. Checked R.H.C. Date 8-16-03

50 059-3008 3 of 3



DATE	
BY	
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AREAS	
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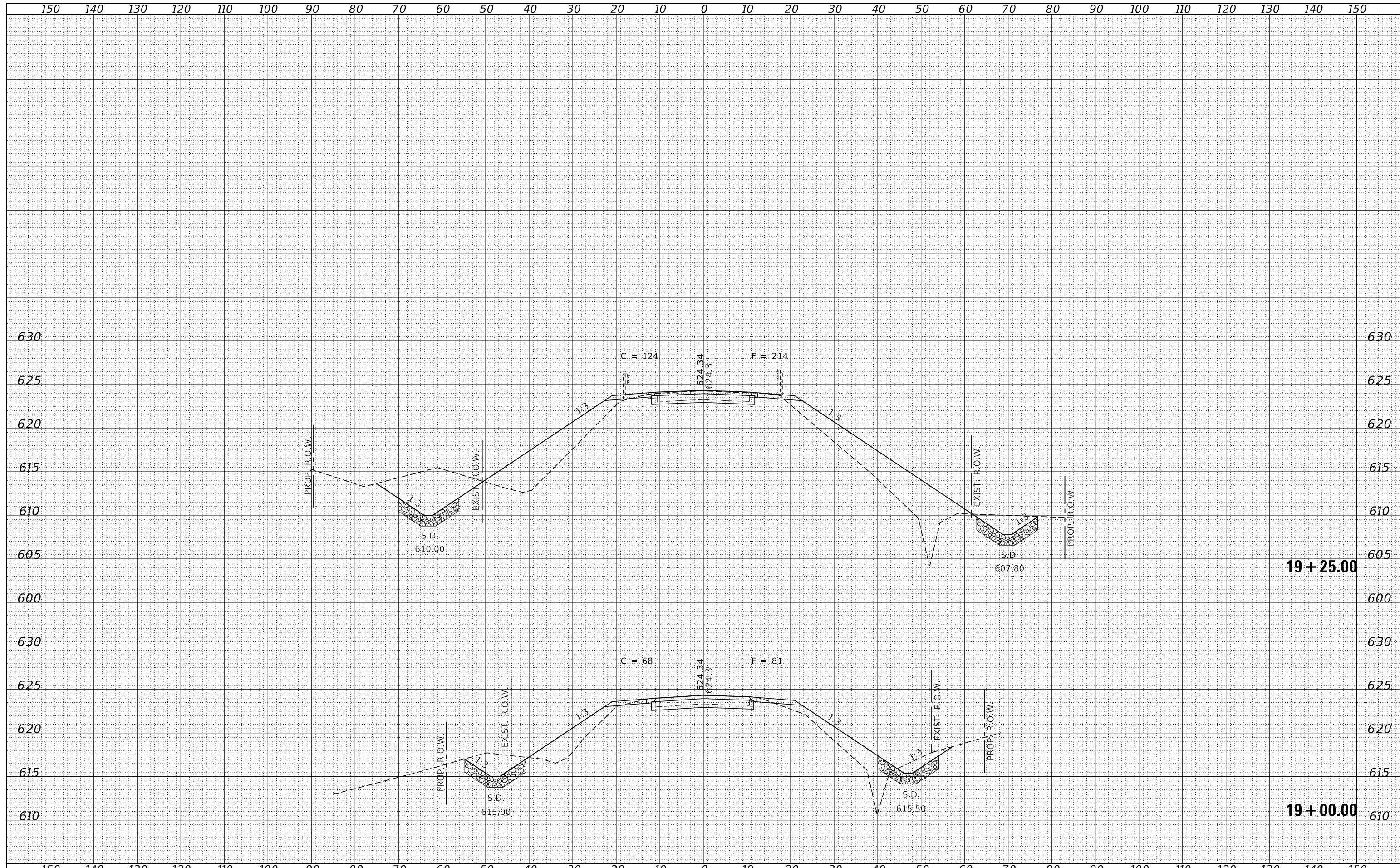
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FILE NAME = 140022-shf-sxs_10_5_11to3.dgn	USER NAME = rmosick	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS</b> <b>MACOUPIN COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -		734	13-00097-00-BR	MACOUPIN	50	25			
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -		SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755				
ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.009958		DATE - 08/27/2020	REVISED -		SCALE: 10H:5V	SHEET NO. 1 OF 14 SHEETS	STA. 18+05.00 TO	STA. 18+85.00	ILLINOIS FED. AID PROJECT SNNH(023)			

DATE	
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PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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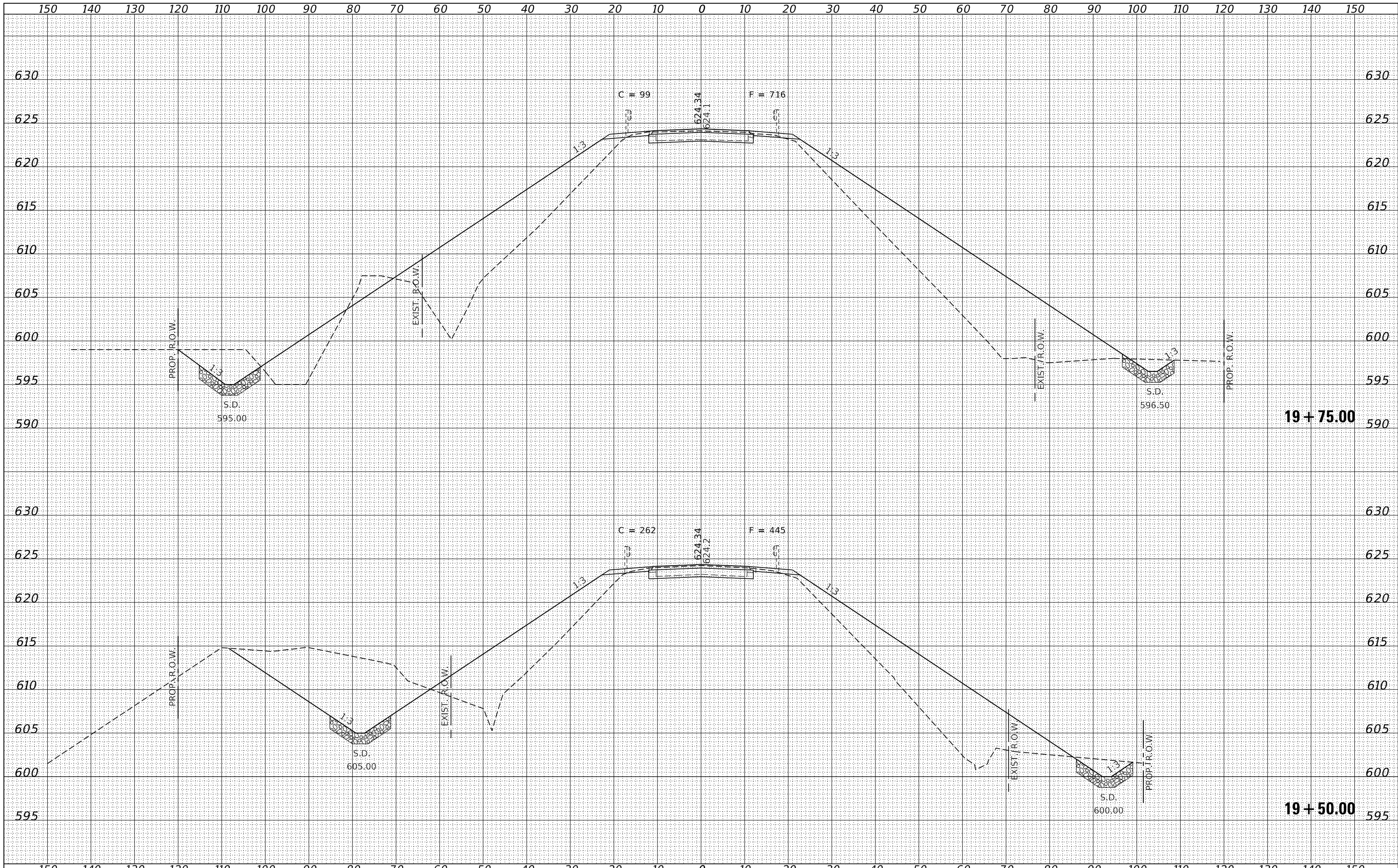
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NOTE BOOK	
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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / P/E / SE CORP. 184.009958	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -		734	13-00097-00-BR	MACOUPIN	50	26		
PLOT DATE = 9/4/2020	DATE = 08/27/2020	CHECKED - S.W.M.	REVISED -		SAWYERVILLE HILLS ROAD / C.H. 26		CONTRACT NO. 93755		ILLINOIS	FED. AID PROJECT SNNH(023)	
		REVISIONS	REVISED -		SCALE: 10H:5V	SHEET NO. 2 OF 14 SHEETS	STA. 19+00.00 TO	STA. 19+25.00			

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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FILE NAME = 140022-shf-sxs\_10\_5\_11to3.dgn  
 DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 08/27/2020

USER NAME = rmosick  
 PLOT SCALE = \$SCALE\$  
 PLOT DATE = 9/4/2020

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 REVISIED -

STATE OF ILLINOIS  
 MACOUPIN COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

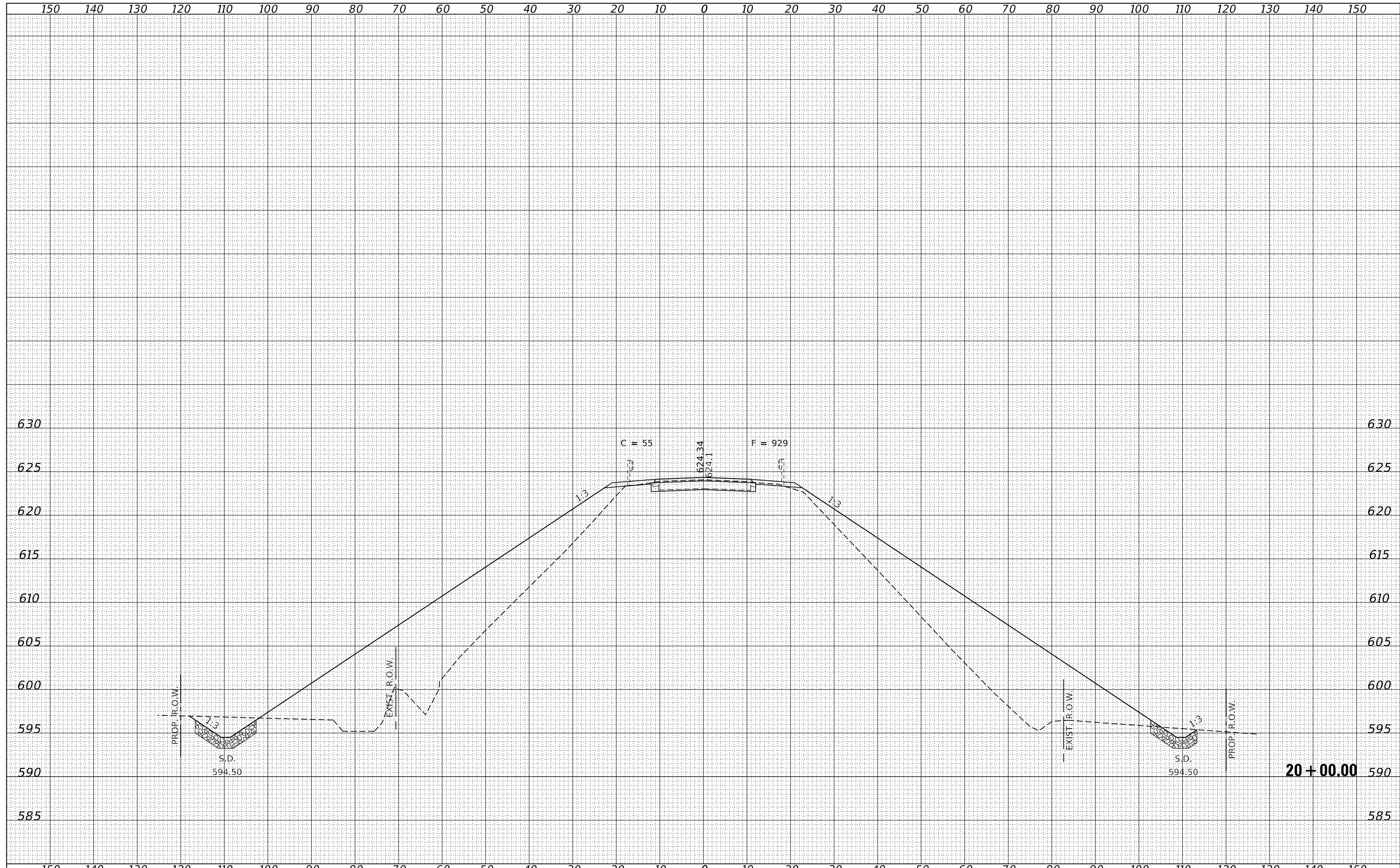
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F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	13-00097-00-BR	MACOUPIN	50	27
SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755	

ILLINOIS FED. AID PROJECT SNNH(023)

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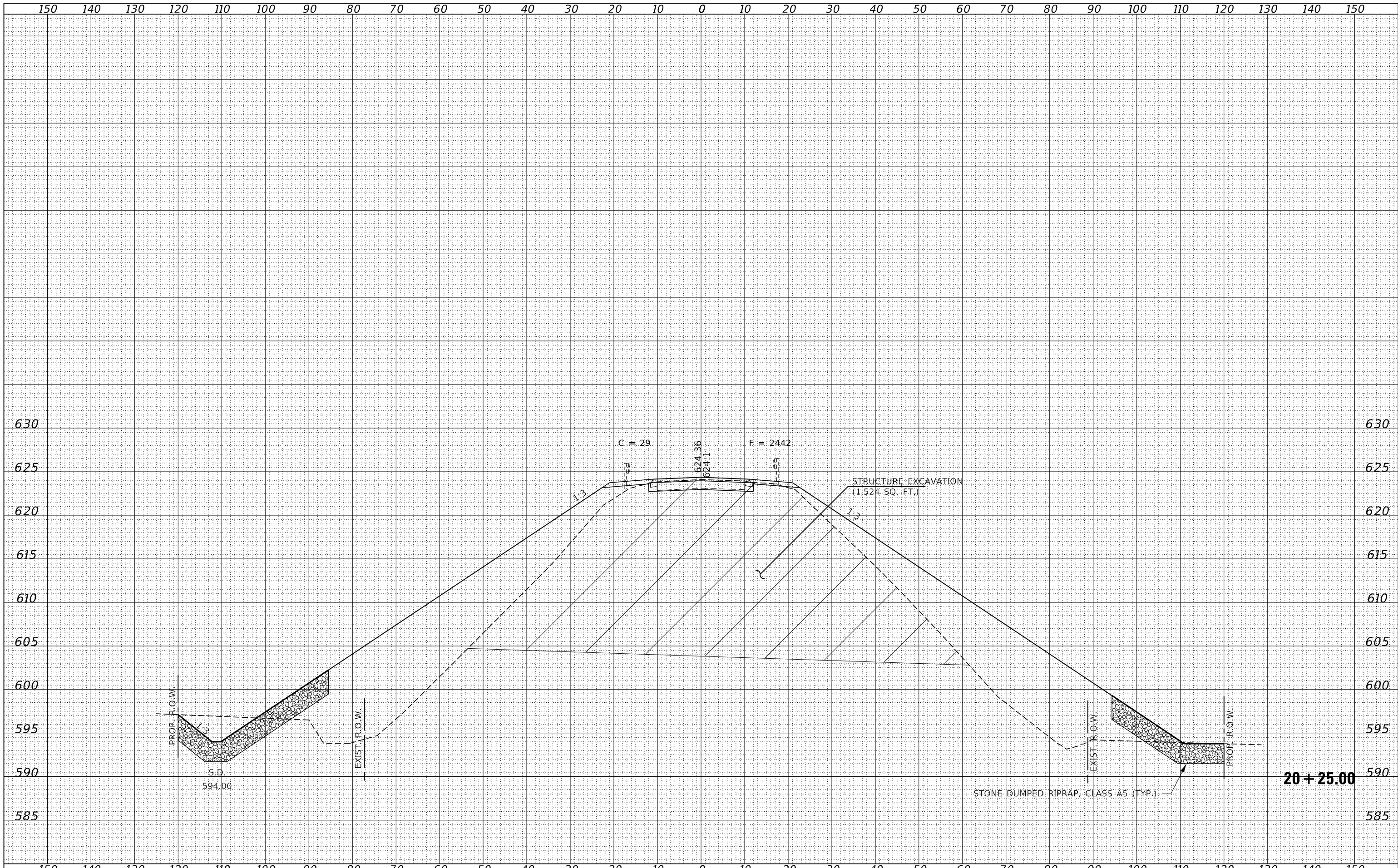
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FILE NAME = 140022-shf-sxs_10_5_1to3.dgn	USER NAME = rhosick	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS</b> <b>MACOUPIN COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.009958	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -		734	13-00097-00-BR	MACOUPIN	50	28			
PLOT DATE = 9/4/2020	DATE = 08/27/2020	REVISED -			SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755				
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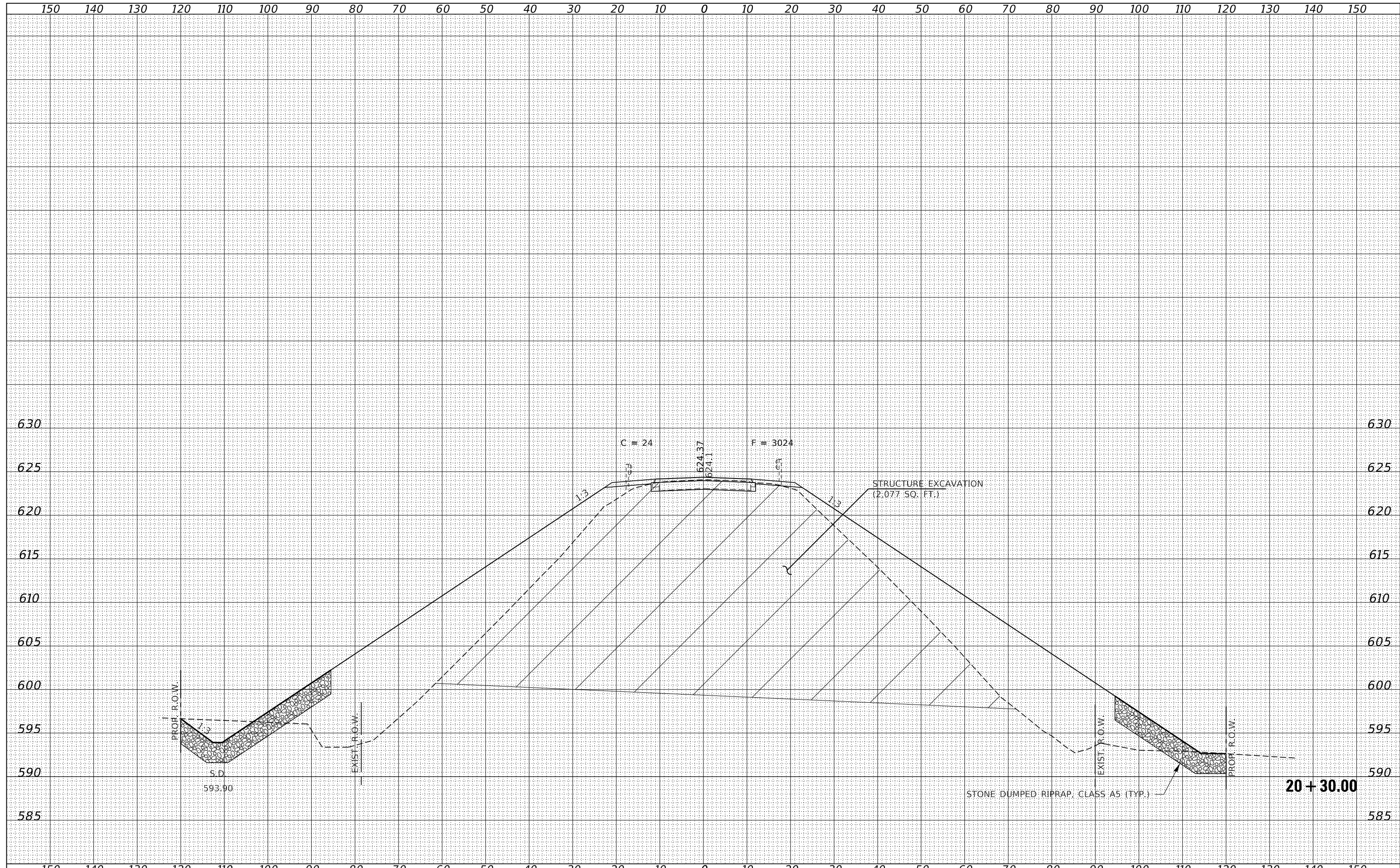
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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.009958	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -		734	13-00097-00-BR	MACOUPIN	50	29
PLOT DATE = 9/4/2020	DATE = 08/27/2020	CHECKED - S.W.M.	REVISED -		SAWYERVILLE HILLS ROAD / C.H. 26				
		REVISOR -	REVISED -		CONTRACT NO. 93755				
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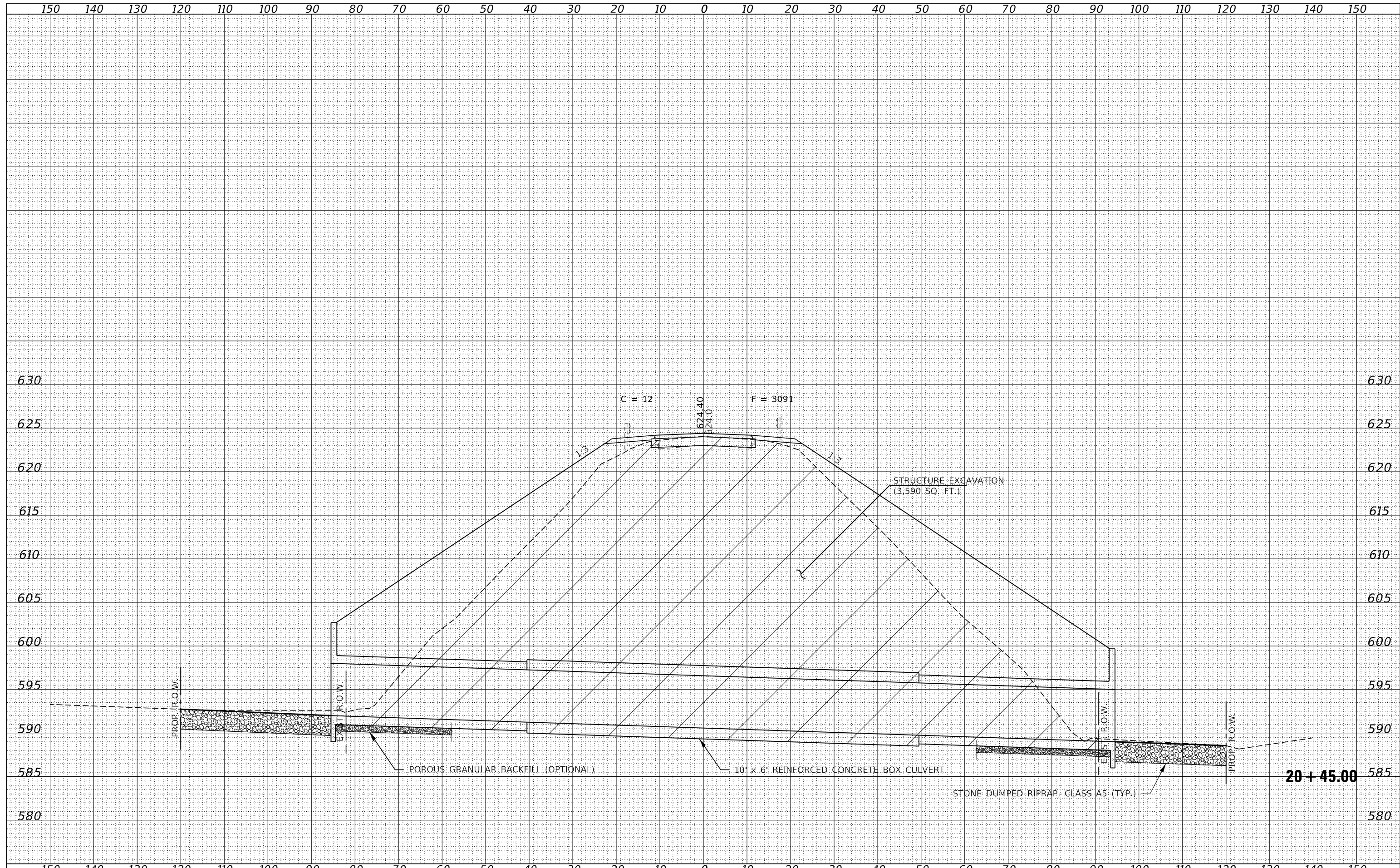
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -					734	13-00097-00-BR	MACOUPIN	50	30
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.009958		CHECKED - S.W.M.	REVISED -					SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755	
		DATE - 08/27/2020	REVISED -					ILLINOIS	FED. AID PROJECT SNNH(023)			

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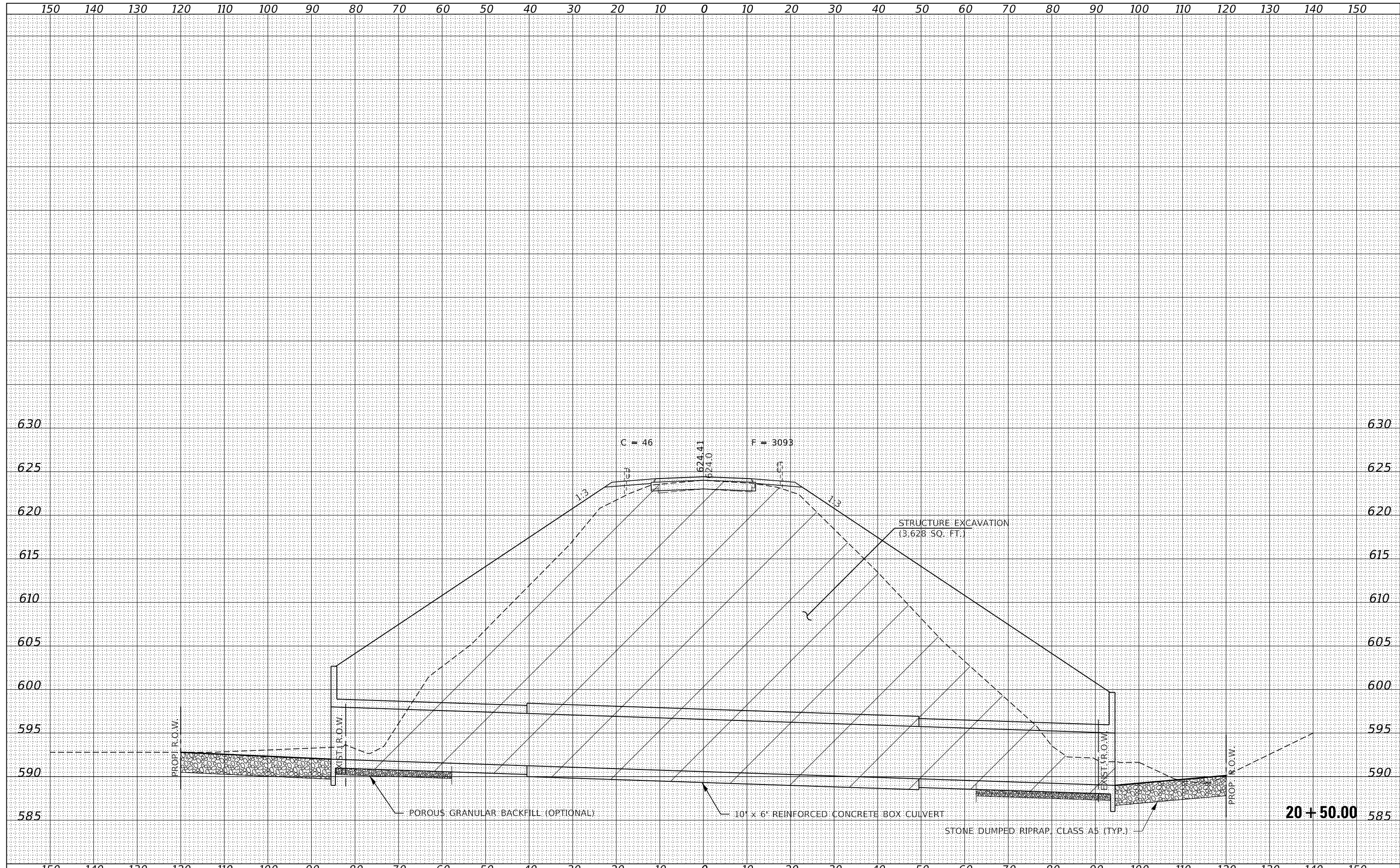
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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.009958	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISIONS					734	13-00097-00-BR	MACOUPIN	50	31
PLOT DATE = 9/4/2020	DATE = 08/27/2020	REVISIONS	SCALE: 10H:5V		SHEET NO. 7 OF 14 SHEETS		STA. 20+45.00 TO	STA. 20+45.00	CONTRACT NO. 93755			
									ILLINOIS FED. AID PROJECT SNNH(023)			

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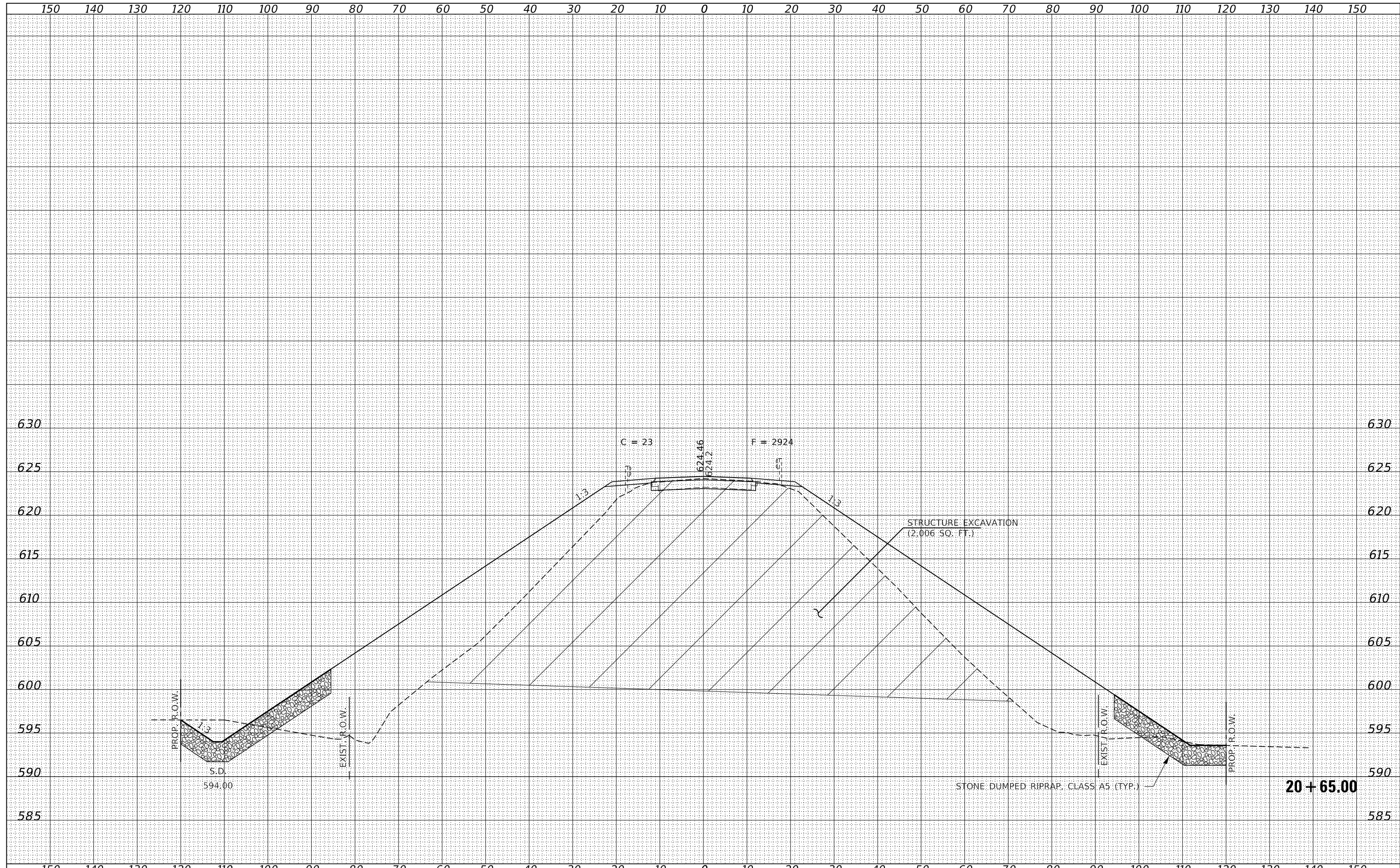


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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -		734	13-00097-00-BR	MACOUPIN	50	32			
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000958		CHECKED - S.W.M.	REVISED -		SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755				
		DATE - 08/27/2020	REVISED -		SCALE: 10H:5V	SHEET NO. 8 OF 14 SHEETS	STA. 20+50.00 TO	STA. 20+50.00	ILLINOIS	FED. AID PROJECT SNNH(023)		



DATE	
BY	
FINISHED SURVEY	
NOTED SURVEY	
PLATTED SURVEY	
AREAS CHECKED	

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ORIGINAL SURVEY	
NOTED SURVEY	
PLATTED SURVEY	
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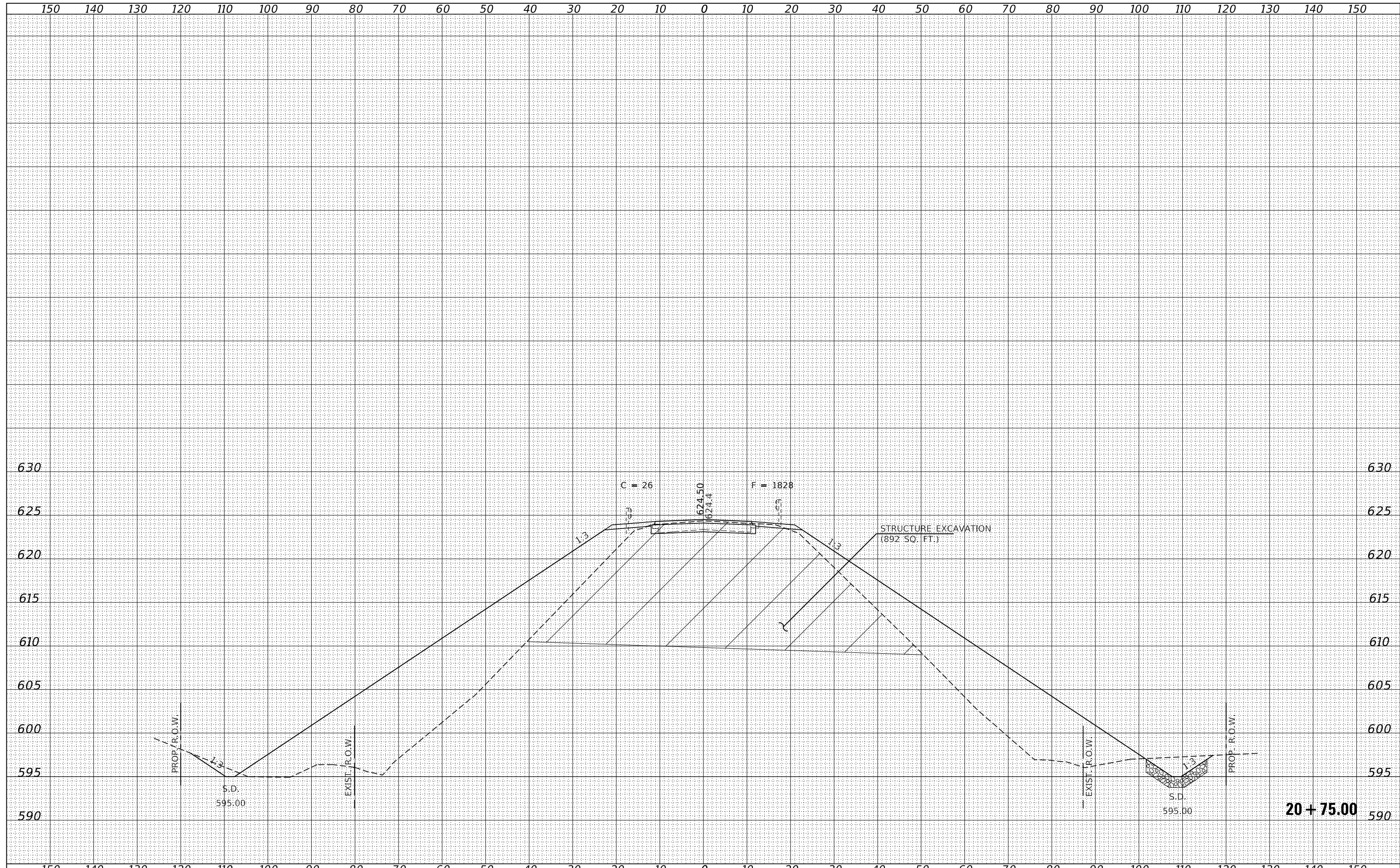


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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.009958	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -		734	13-00097-00-BR	MACOUPIN	50	33			
PLOT DATE = 9/4/2020	DATE = 08/27/2020	CHECKED - S.W.M.	REVISED -		SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755				
		REVISIONS			ILLINOIS FED. AID PROJECT SNH(023)							

SCALE: 10H:5V      SHEET NO. 9 OF 14 SHEETS      STA. 20+65.00 TO      STA. 20+65.00

DATE	
BY	
FINISHED SURVEY	
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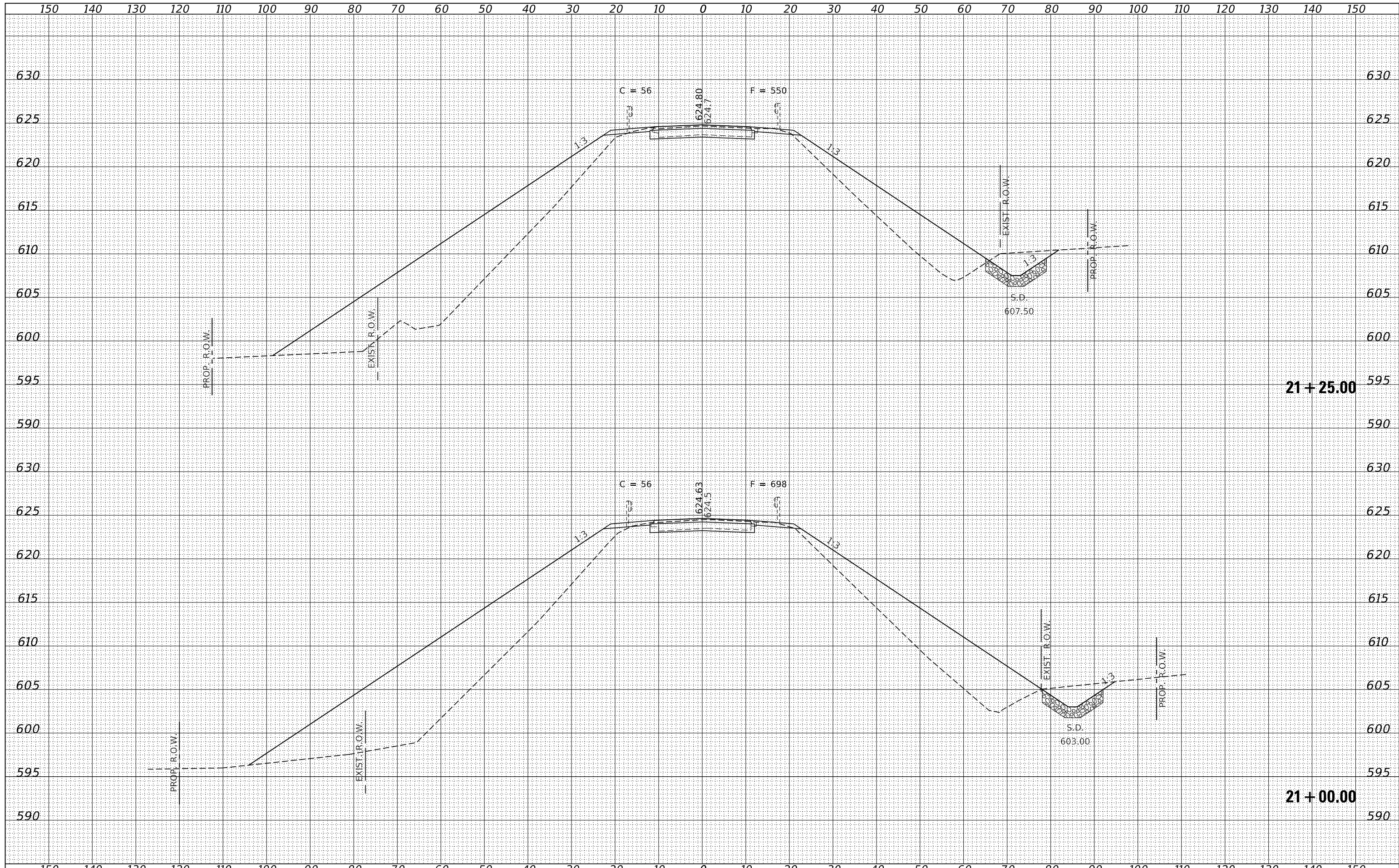
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -		734	13-00097-00-BR	MACOUPIN	50	34			
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DATE	
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED

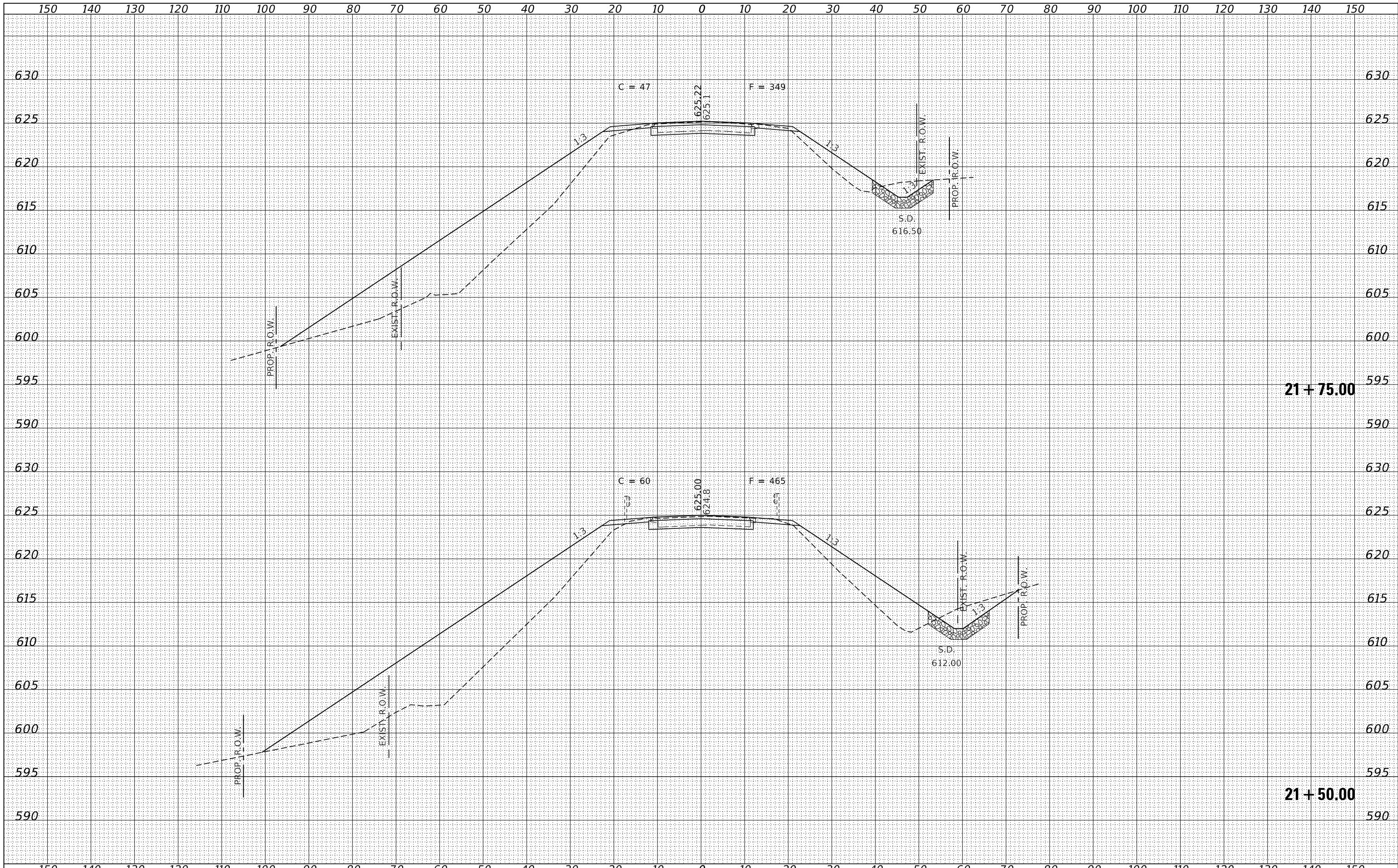
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NOTE BOOK	PLOTTED
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	AREAS
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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.009958		DRAWN - T.W.K.	REVISED -		734	13-00097-00-BR	MACOUPIN	50	35			
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PLOT DATE = 9/4/2020		DATE - 08/27/2020	REVISED -		SCALE: 10H:5V	SHEET NO. 11 OF 14 SHEETS	STA. 21+00.00 TO	STA. 21+25.00	ILLINOIS	FED. AID PROJECT SNNH(023)		

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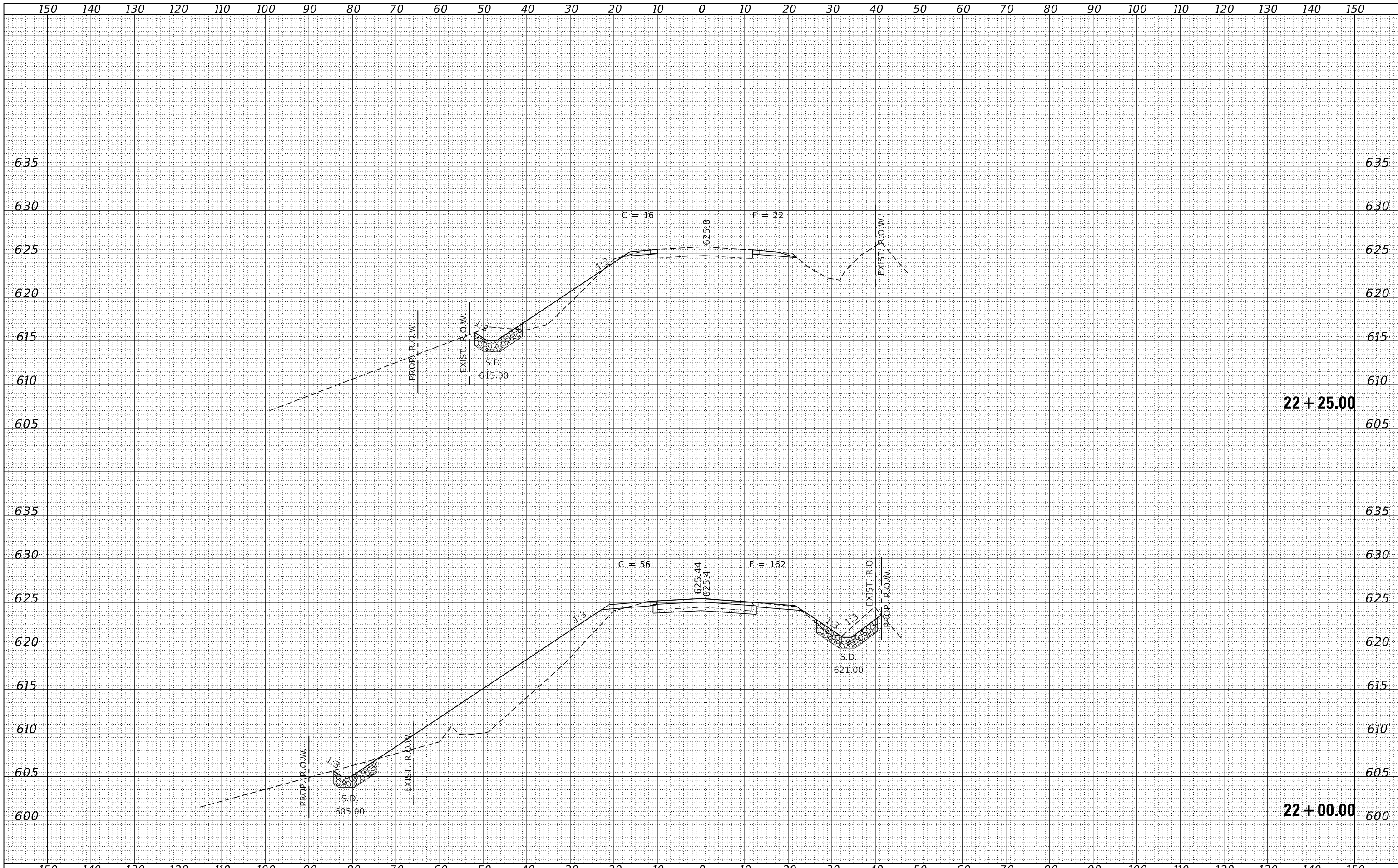
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FILE NAME = 140022-shf-sxs_10_5_11to3.dgn	USER NAME = rmosick	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS</b> <b>MACOUPIN COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.009958	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -					734	13-00097-00-BR	MACOUPIN	50	36
PLOT DATE = 9/4/2020	DATE = 08/27/2020	CHECKED - S.W.M.	REVISED -		SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755				
		REVISOR -	REVISED -		SCALE: 10H:5V	SHEET NO. 12 OF 14 SHEETS	STA. 21+50.00 TO	STA. 21+75.00	ILLINOIS	FED. AID PROJECT SNNH(023)		

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NOTE BOOK	
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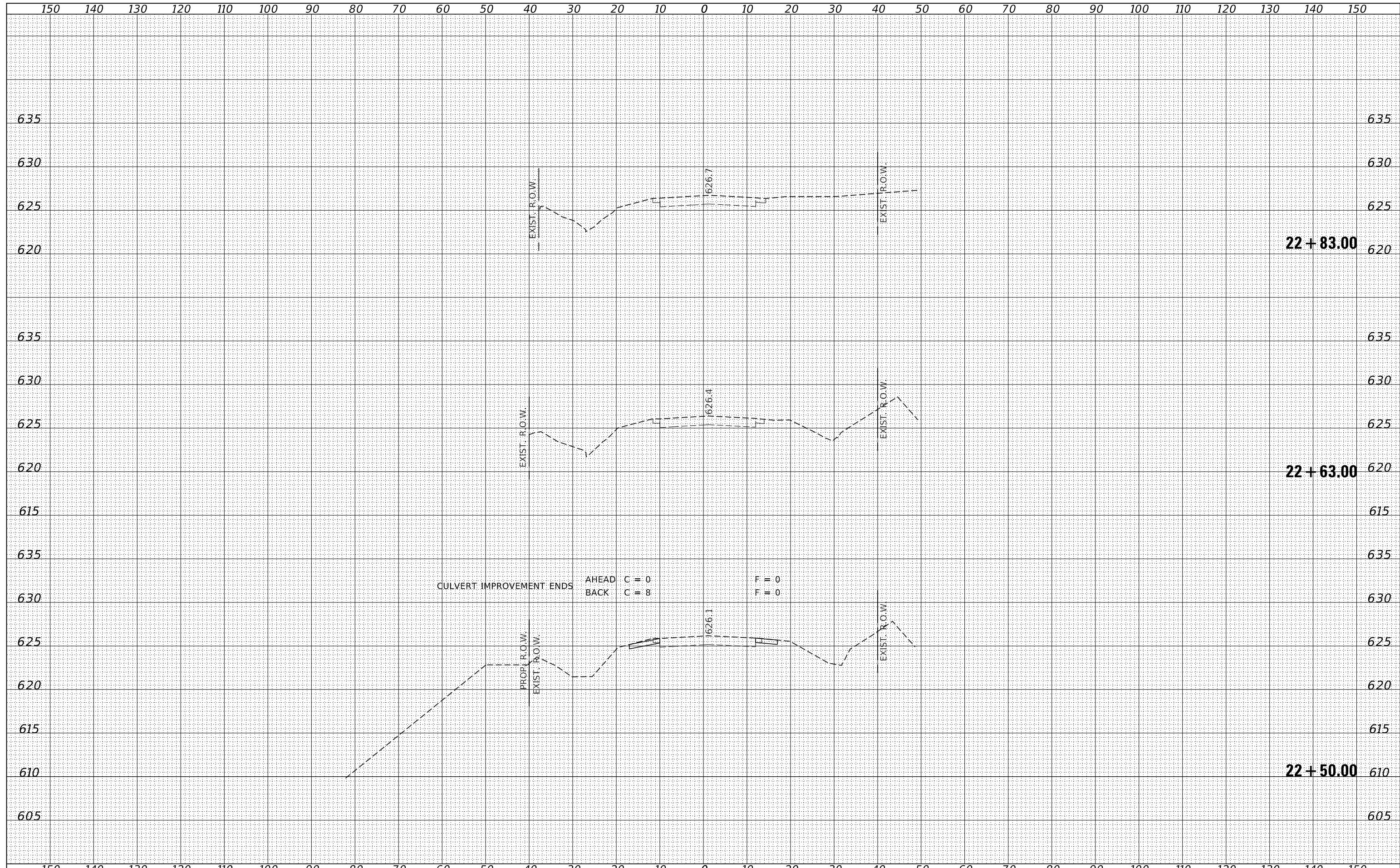
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FILE NAME = 140022-shf-sxs_10_5_11to3.dgn	USER NAME = rmosick	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS</b> <b>MACOUPIN COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -				734	13-00097-00-BR	MACOUPIN	50	37
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.009958		CHECKED - S.W.M.	REVISED -				SAWYERVILLE HILLS ROAD / C.H. 26		CONTRACT NO. 93755		
		DATE - 08/27/2020	REVISED -				SCALE: 10H:5V	SHEET NO. 13 OF 14 SHEETS	STA. 22+00.00 TO	STA. 22+25.00	ILLINOIS

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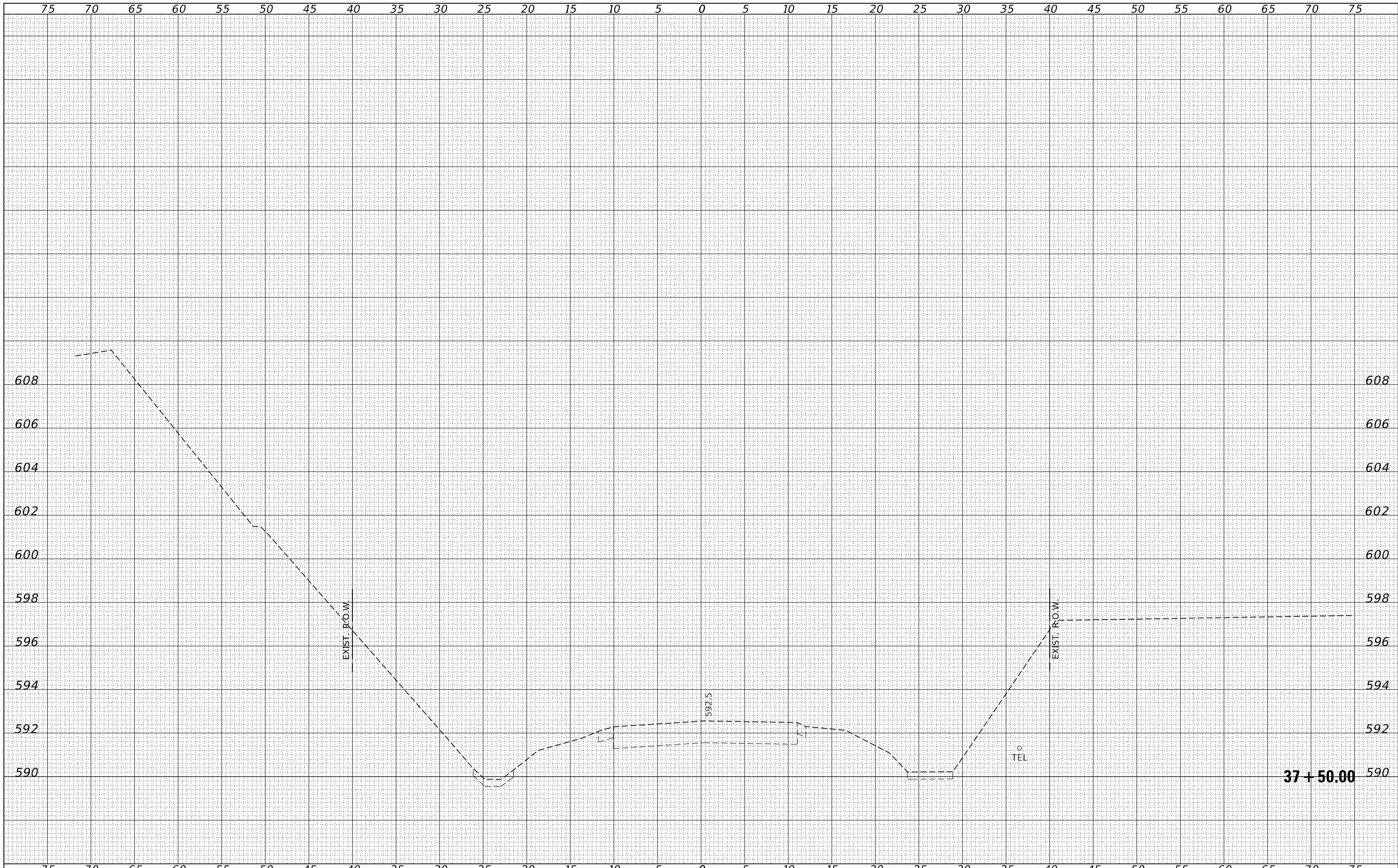
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NOTE BOOK	
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FILE NAME = 140022-shf-sxs_10_5_11to3.dgn	USER NAME = rmosick	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS</b> <b>MACOUPIN COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -		734	13-00097-00-BR	MACOUPIN	50	38			
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000958		CHECKED - S.W.M.	REVISED -		SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755				
		DATE - 08/27/2020	REVISED -		SCALE: 10H:5V	SHEET NO. 14 OF 14 SHEETS	STA. 22+50.00 TO	STA. 22+83.00	ILLINOIS	FED. AID PROJECT SNNH(023)		

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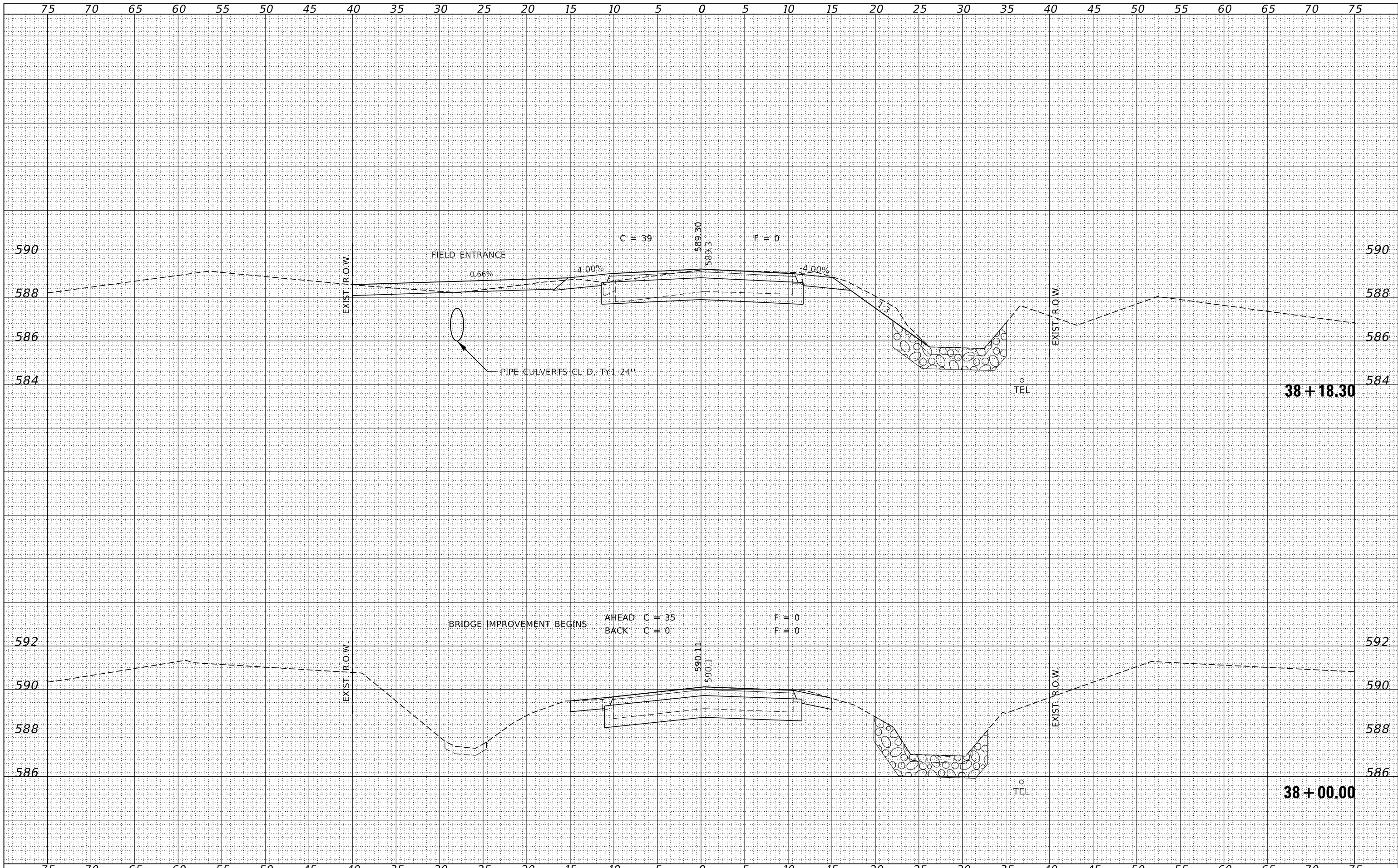
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NOTE BOOK	
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FILE NAME = 140022-shf-exs.dgn	USER NAME = rhosick	DESIGNED - S.W.M.	REVISED -	<b>STATE OF ILLINOIS</b> <b>MACOUPIN COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>				F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.009958		DRAWN - T.W.K.	REVISED -		734	13-00097-00-BR	MACOUPIN	50	39				
		CHECKED - S.W.M.	REVISED -		SAWYERVILLE HILLS ROAD / C.H. 26				CONTRACT NO. 93755				
		DATE - 08/27/2020	REVISED -		SCALE: 5H:2V	SHEET NO. 1 OF 12 SHEETS	STA. 37+50.00 TO	STA. 37+50.00	ILLINOIS FED. AID PROJECT SNH(023)				

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FILE NAME = 140022-shf-exs.dgn  
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 DESIGNED - S.W.M.  
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 CHECKED - S.W.M.  
 DATE - 08/27/2020  
 PLOT SCALE = \$SCALE\$  
 PLOT DATE = 9/4/2020

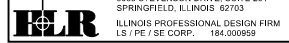
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STATE OF ILLINOIS  
 MACOUPIN COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V  
 SHEET NO. 2 OF 12 SHEETS  
 STA. 38+00.00 TO STA. 38+18.30

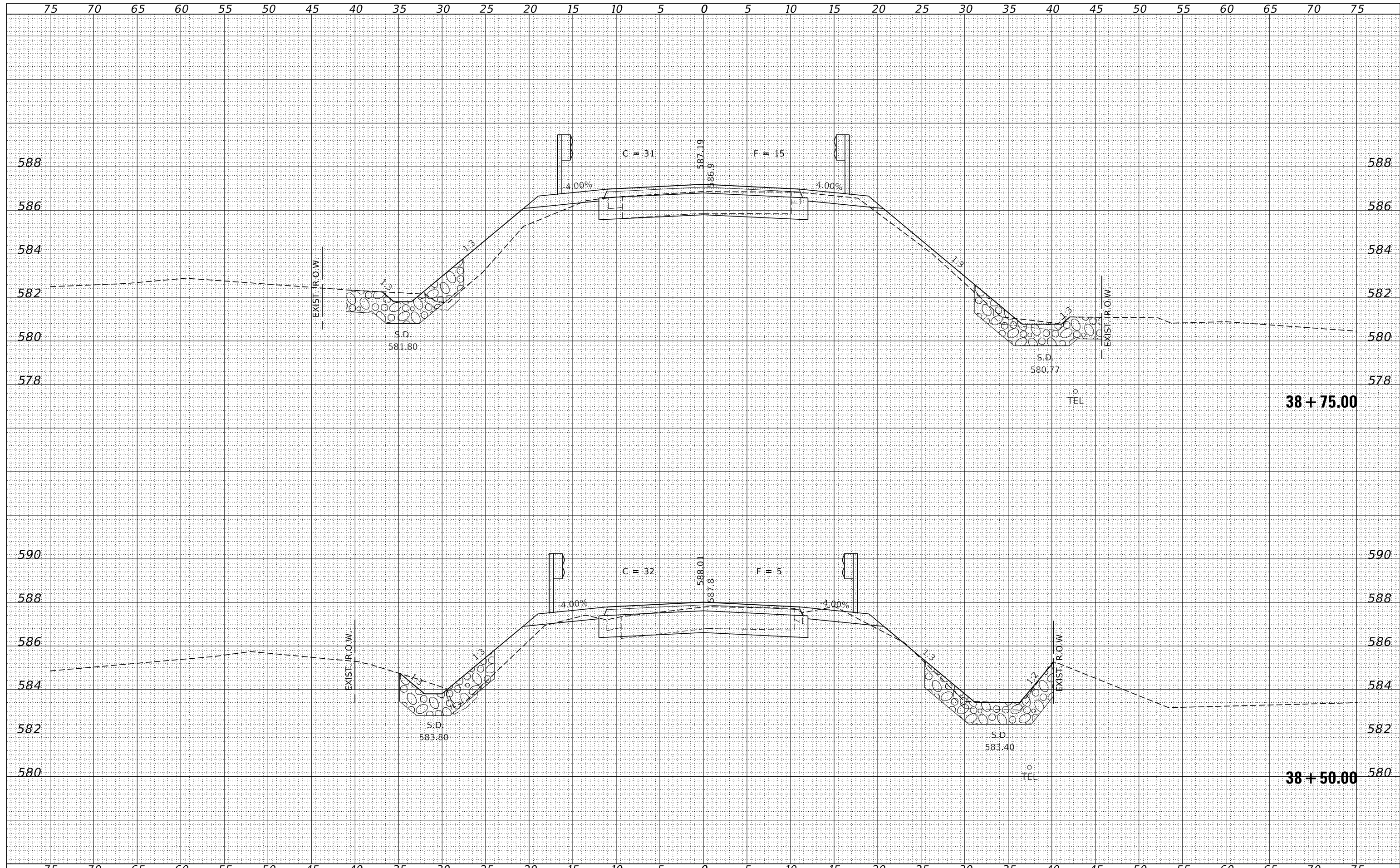
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734	13-00097-00-BR	MACOUPIN	50	40
SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755	
ILLINOIS FED. AID PROJECT SNH(023)				





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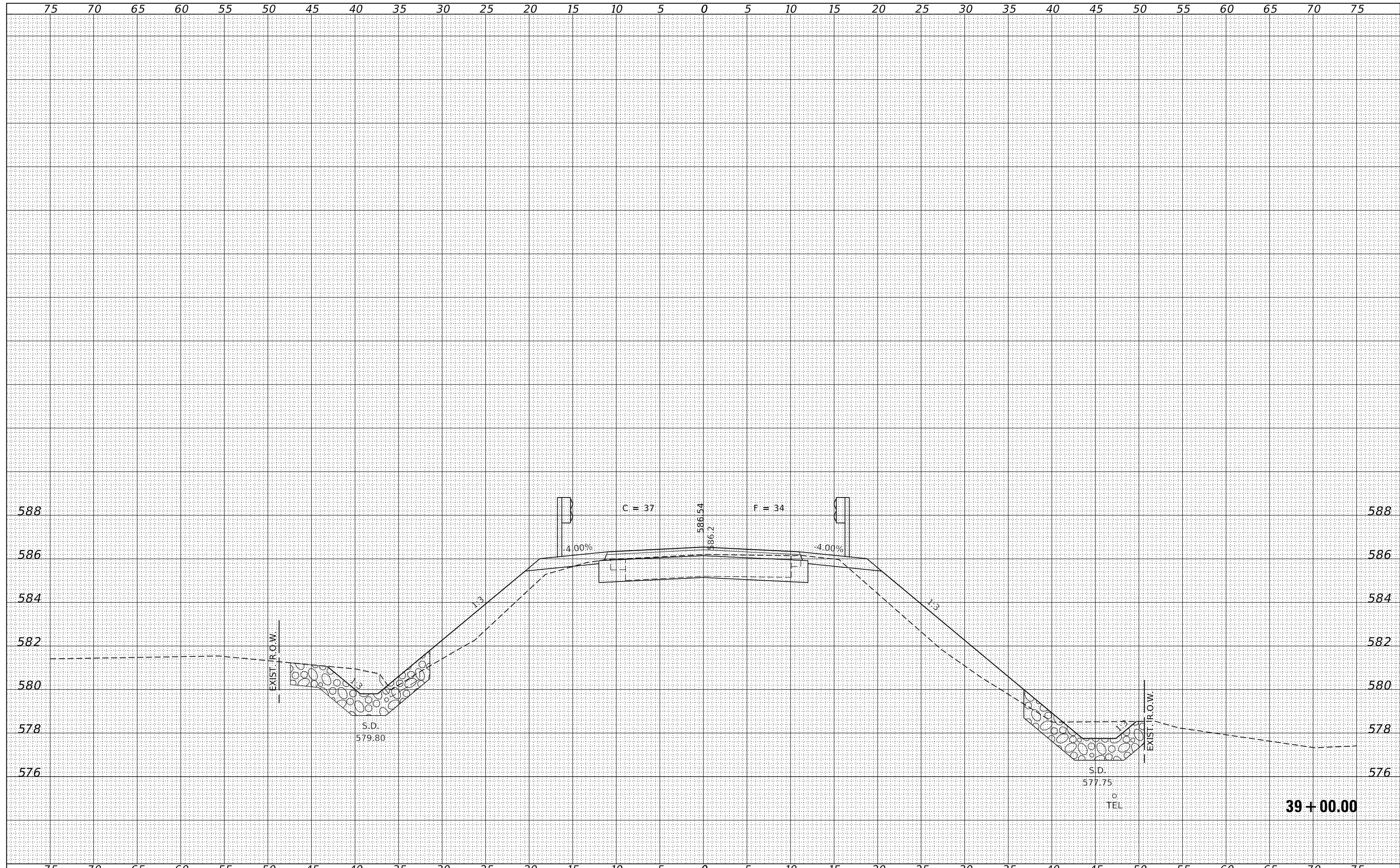
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FILE NAME = 140022-shf-exs.dgn	USER NAME = rhosick	DESIGNED - S.W.M.	REVISED -	<b>STATE OF ILLINOIS</b> <b>MACOUPIN COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.009958	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -		734	13-00097-00-BR	MACOUPIN	50	41			
PLOT DATE = 9/4/2020	DATE = 08/27/2020	CHECKED - S.W.M.	REVISED -		SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755				
		REVIS			SCALE: 5H:2V	SHEET NO. 3 OF 12 SHEETS	STA. 38+50.00 TO	STA. 38+75.00	ILLINOIS	FED. AID PROJECT	SNNH(023)	

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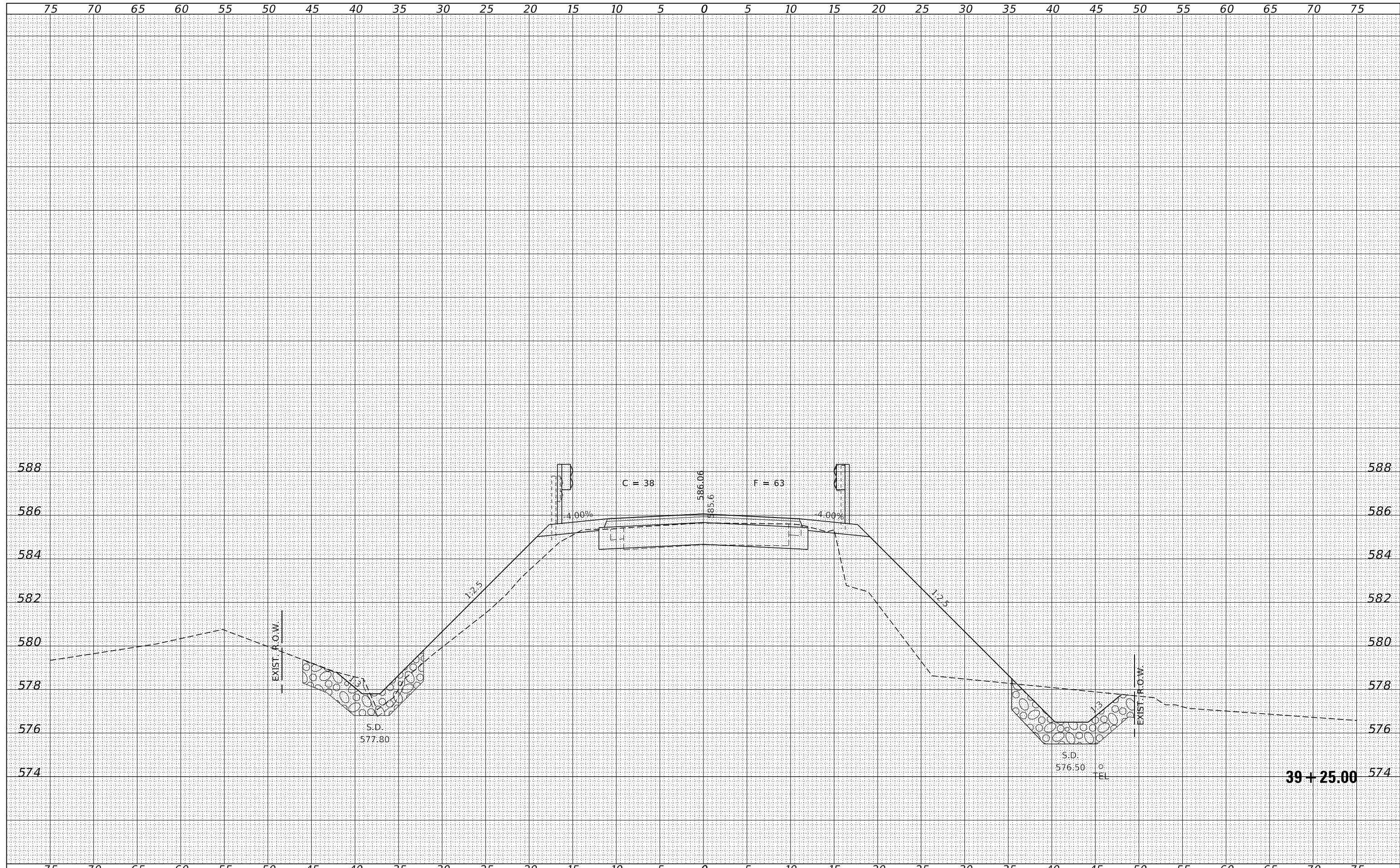
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FILE NAME = 140022-shf-exs.dgn	USER NAME = rhosick	DESIGNED - S.W.M.	REVISED -	<b>STATE OF ILLINOIS</b> <b>MACOUPIN COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -					734	13-00097-00-BR	MACOUPIN	50	42	
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -					SAWYERVILLE HILLS ROAD / C.H. 26				CONTRACT NO. 93755	
ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184-000958		DATE - 08/27/2020	REVISED -					SCALE: 5H:2V	SHEET NO. 4 OF 12 SHEETS	STA. 39+00.00 TO	STA. 39+00.00	ILLINOIS FED. AID PROJECT SNH(023)	

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DATE	
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ORIGINAL SURVEY	
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**39 + 25.00**

FILE NAME = 140022-shf-exs.dgn  
 HAMPTON, LENZINI AND RENWICK, INC.  
 3885 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184.009958

USER NAME = rthosick  
 DESIGNED - S.W.M.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 08/27/2020  
 PLOT SCALE = \$SCALE\$  
 PLOT DATE = 9/4/2020

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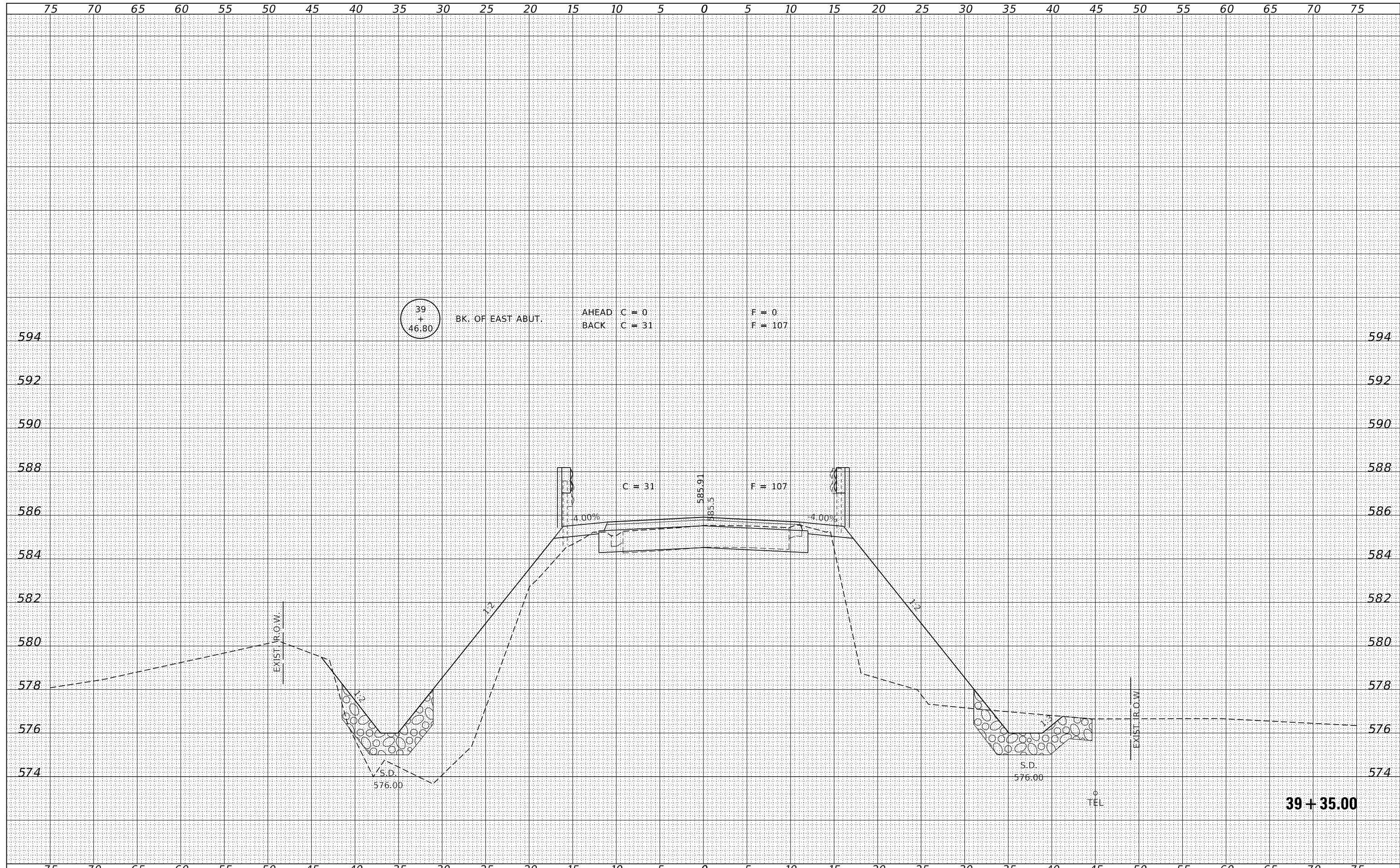
STATE OF ILLINOIS  
 MACOUPIN COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS  
 SCALE: 5H:2V  
 SHEET NO. 5 OF 12 SHEETS  
 STA. 39+25.00 TO STA. 39+25.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	13-00097-00-BR	MACOUPIN	50	43
SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755	
ILLINOIS FED. AID PROJECT SNH(023)				

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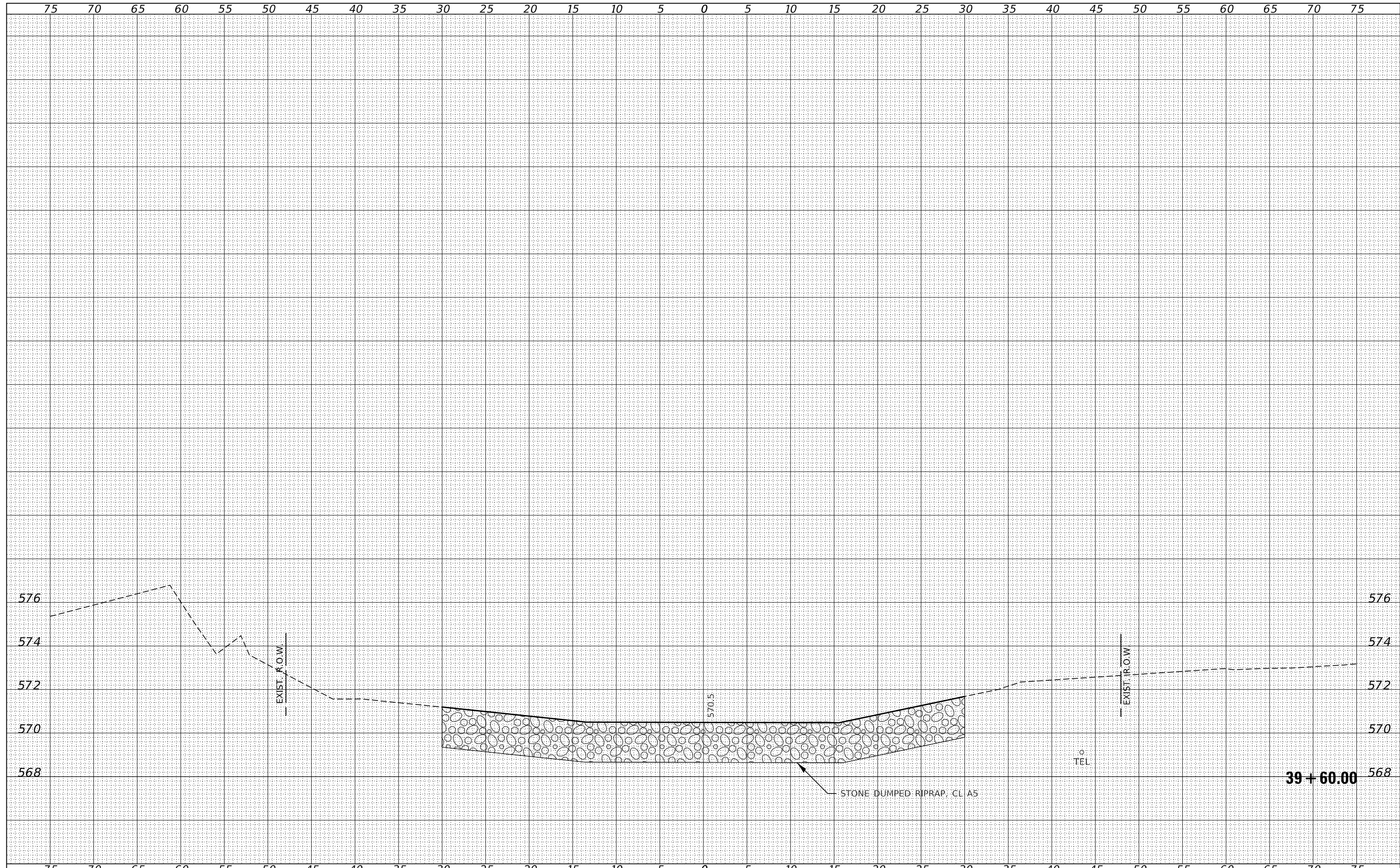
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FILE NAME = 140022-shf-exs.dgn	USER NAME = rhosick	DESIGNED - S.W.M.	REVISED -	<b>STATE OF ILLINOIS</b> <b>MACOUPIN COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.009958		DRAWN - T.W.K.	REVISED -		734	13-00097-00-BR	MACOUPIN	50	44			
		CHECKED - S.W.M.	REVISED -		SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755				
		DATE - 08/27/2020	REVISED -		SCALE: 5H:2V	SHEET NO. 6 OF 12 SHEETS	STA. 39+35.00 TO	STA. 39+35.00	ILLINOIS	FED. AID PROJECT	SNNH(023)	

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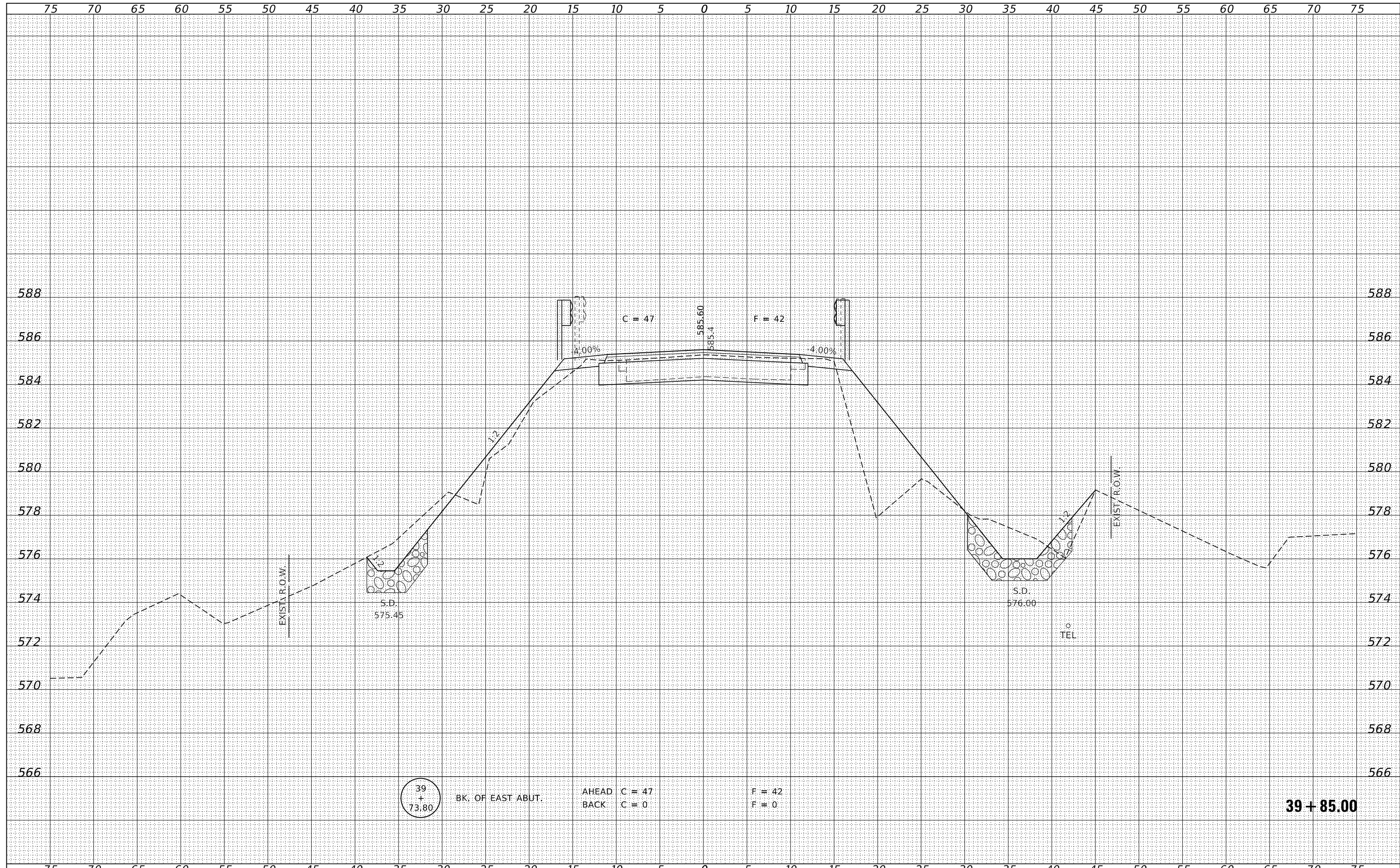
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FILE NAME = 140022-shf-exs.dgn	USER NAME = rhosick	DESIGNED - S.W.M.	REVISED -	<b>STATE OF ILLINOIS</b> <b>MACOUPIN COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-009958	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -				734	13-00097-00-BR	MACOUPIN	50	45
PLOT DATE = 9/4/2020	CHECKED - S.W.M.	REVISIED -	SCALE: 5H:2V		SHEET NO. 7 OF 12 SHEETS		STA. 39+60.00 TO	STA. 39+60.00		CONTRACT NO. 93755	
	DATE - 08/27/2020	REVISED -							ILLINOIS FED. AID PROJECT SNH(023)		

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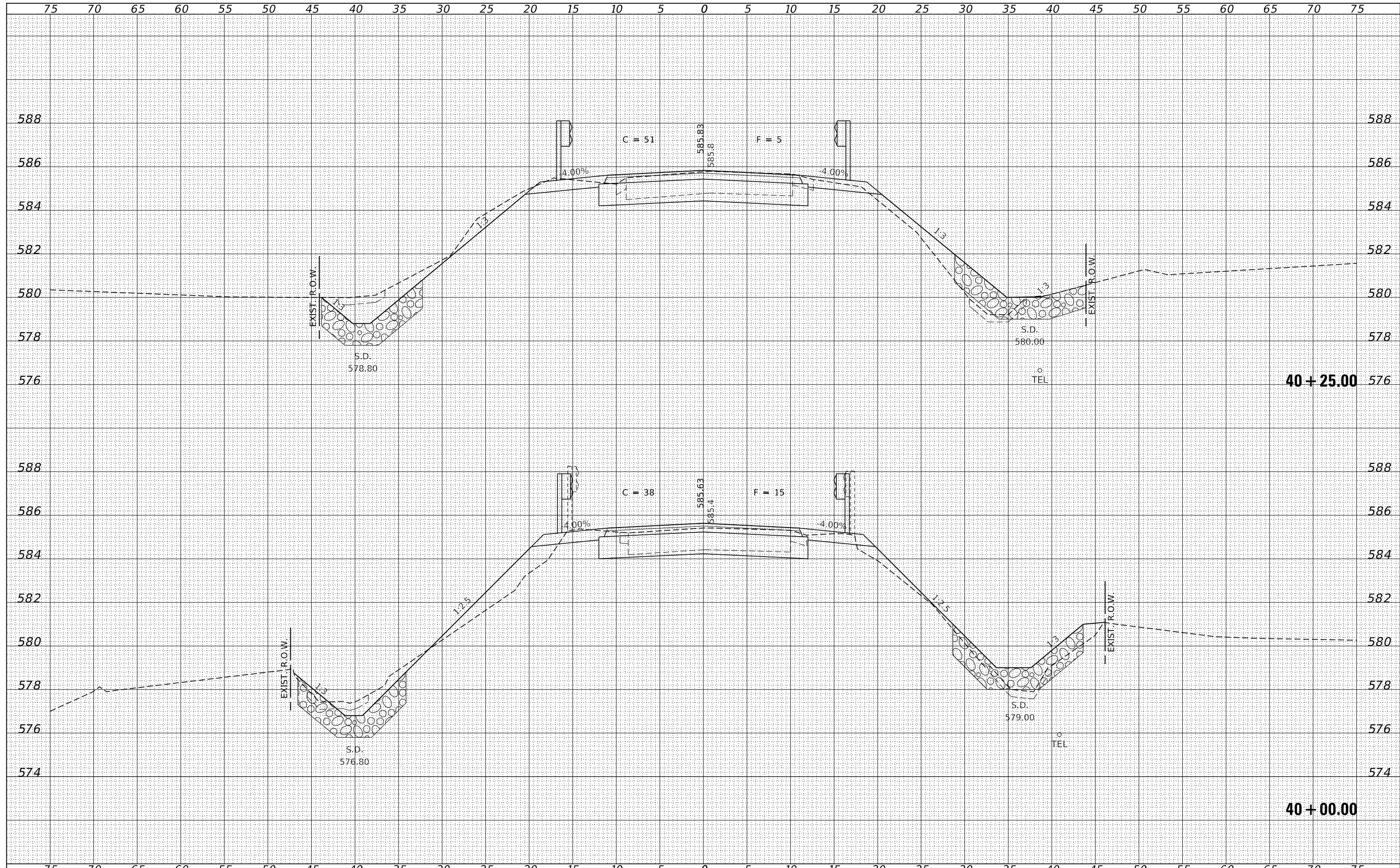
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -				734	13-00097-00-BR	MACOUPIN	50	46
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184-000958		CHECKED - S.W.M.	REVISED -				SAWYERVILLE HILLS ROAD / C.H. 26		CONTRACT NO. 93755		
		DATE - 08/27/2020	REVISED -				SCALE: 5H:2V	SHEET NO. 8 OF 12 SHEETS	STA. 39+85.00 TO	STA. 39+85.00	ILLINOIS FED. AID PROJECT SNH(023)

DATE	
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 PLOT DATE = 9/4/2020

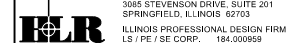
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STATE OF ILLINOIS  
 MACOUPIN COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

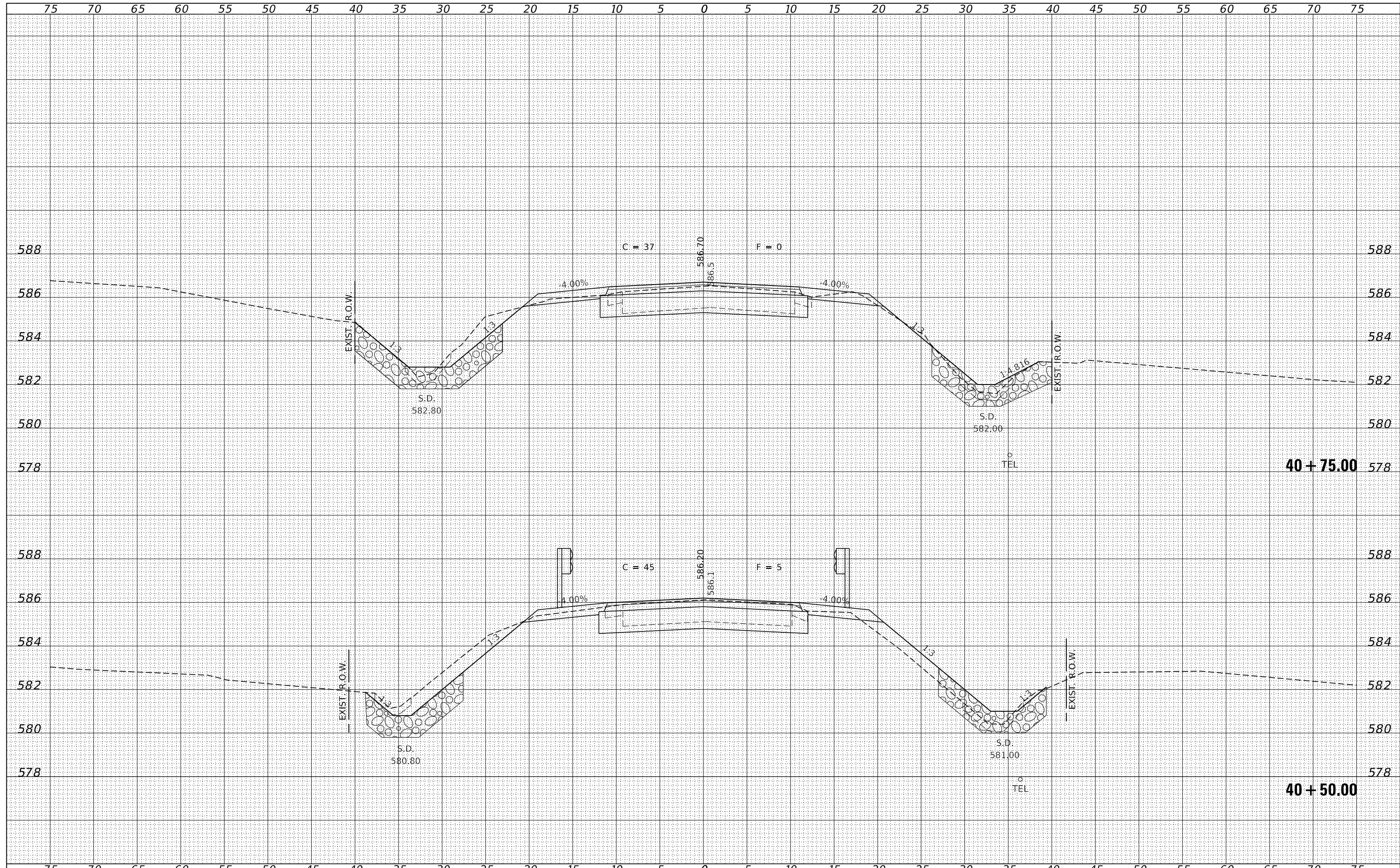
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 SHEET NO. 9 OF 12 SHEETS  
 STA. 40+00.00 TO STA. 40+25.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	13-00097-00-BR	MACOUPIN	50	47
SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755	



DATE	
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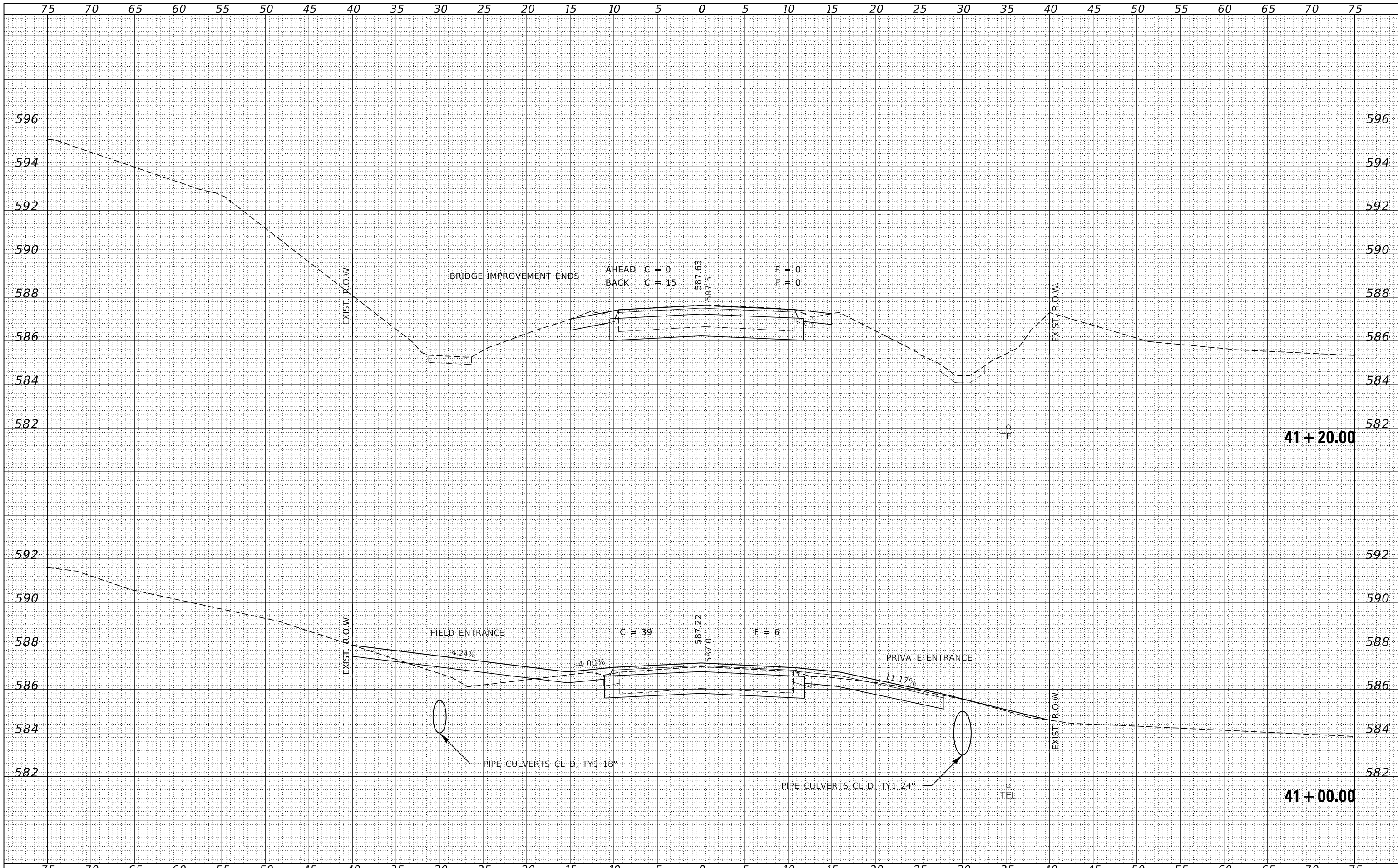
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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184-009958	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -		734	13-00097-00-BR	MACOUPIN	50	48
PLOT DATE = 9/4/2020	DATE = 08/27/2020	CHECKED - S.W.M.	REVISED -		SAWYERVILLE HILLS ROAD / C.H. 26 CONTRACT NO. 93755				
		REVISIONS			ILLINOIS FED. AID PROJECT SNH(023)				

SCALE: 5H:2V SHEET NO. 10 OF 12 SHEETS STA. 40+50.00 TO STA. 40+75.00



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 DESIGNED - S.W.M.  
 DRAWN - T.W.K.  
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 DATE - 08/27/2020

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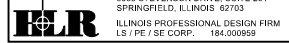
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STATE OF ILLINOIS  
 MACOUPIN COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

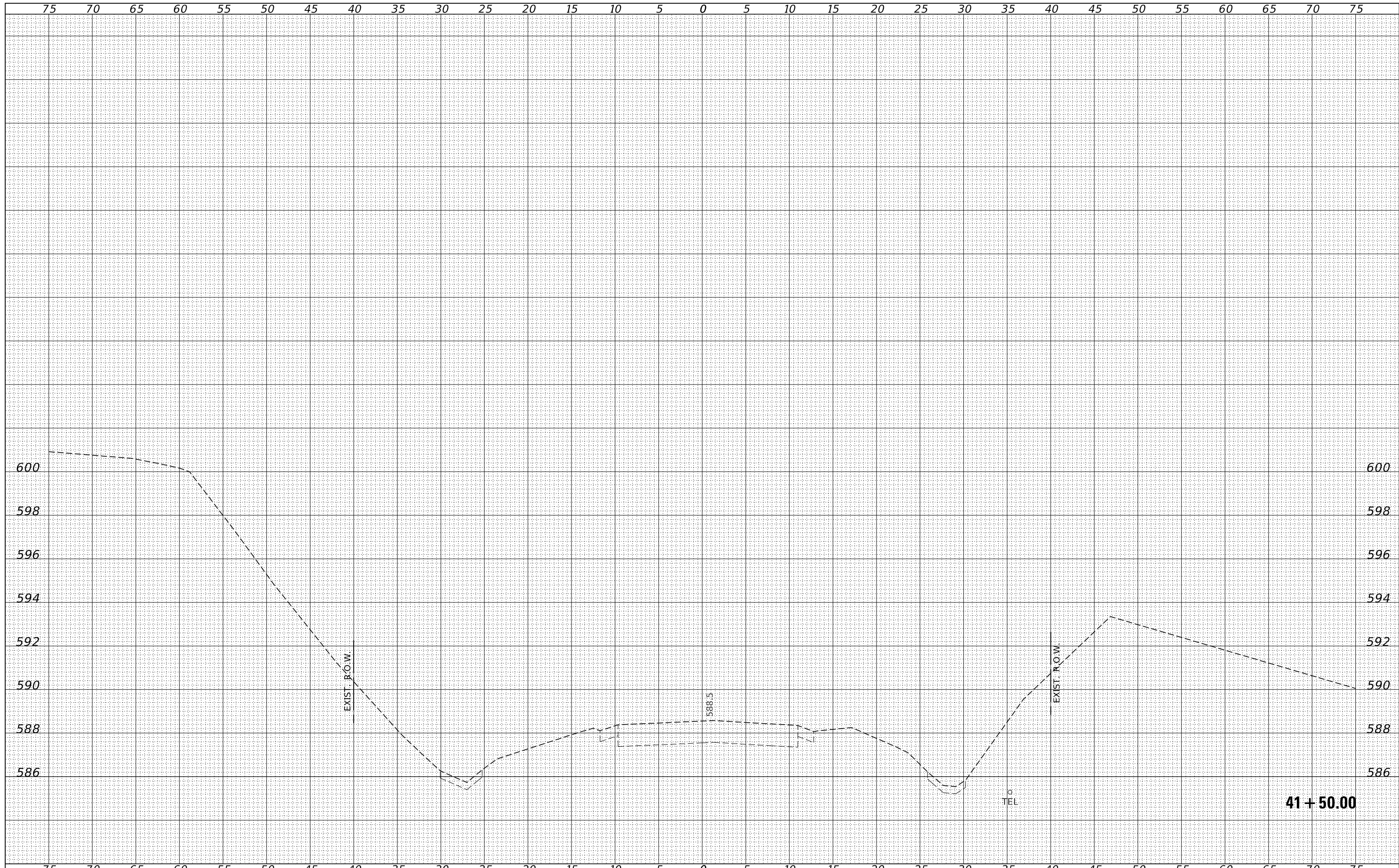
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 SHEET NO. 11 OF 12 SHEETS  
 STA. 41+00.00 TO STA. 41+20.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	13-00097-00-BR	MACOUPIN	50	49
SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755	



DATE	
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AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 08/27/2020  
 PLOT SCALE = \$SCALE\$  
 PLOT DATE = 9/4/2020

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**STATE OF ILLINOIS  
 MACOUPIN COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS**

SCALE: 5H:2V      SHEET NO. 12 OF 12 SHEETS      STA. 41+50.00 TO      STA. 41+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
734	13-00097-00-BR	MACOUPIN	50	50
SAWYERVILLE HILLS ROAD / C.H. 26			CONTRACT NO. 93755	
ILLINOIS   FED. AID PROJECT SNH(023)				

