

03/11/2022 LETTING ITEM 124

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 41	18-00287-00-BR	SHELBY	35	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 95907		

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.	SHOULDER AND GUARDRAIL DETAIL
8-18.	BRIDGE PLANS
19-35.	STATION CROSS SECTIONS

HIGHWAY STANDARDS:

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATE FOR BRIDGES
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
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

PLANS FOR PROPOSED
ILLINOIS SPECIAL BRIDGE PROGRAM

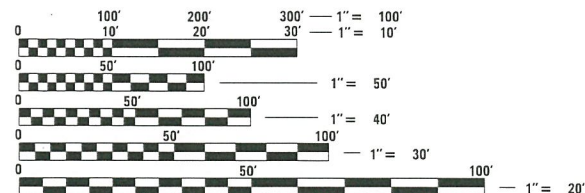
PROJECT 7CRW(135)
SECTION 18-00287-00-BR
SHELBY COUNTY
C.H. 41
PROPOSED STRUCTURE NO. 087-3597
C-97-043-22



UTILITIES

EJ WATER
114 W. WASHINGTON
P.O. BOX 897
EFFINGHAM, IL 62401
ATTN: DEAN SWINGLER
DSWINGLER@EJWATERCOOP.COM
217-925-5566

CONSOLIDATED COMMUNICATIONS
121 S. 17TH STREET
MATTOON, IL 61938
ATTN: JASON RHODES
JASON.RHODES@CONSOLIDATED.COM
217-238-8403



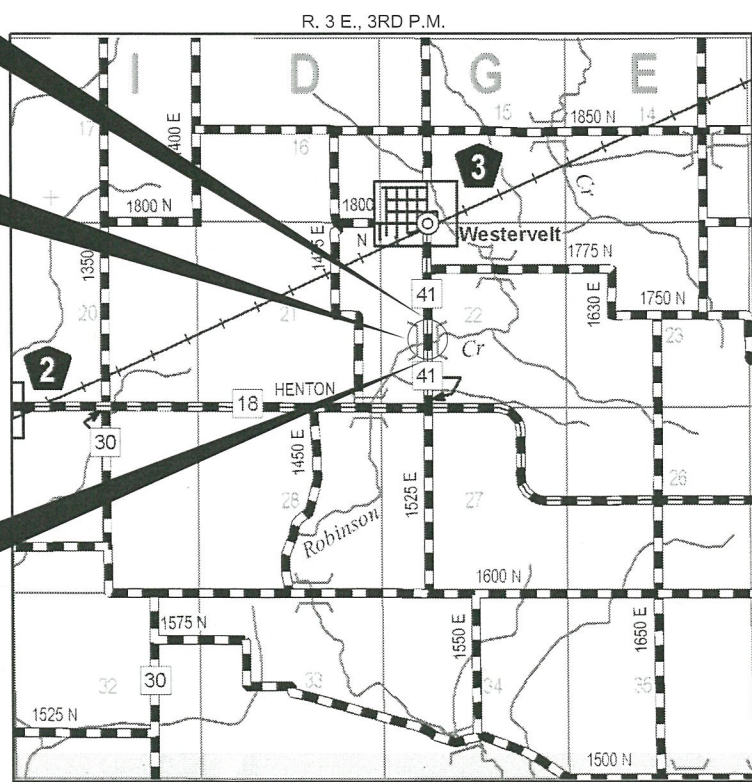
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FUNCTIONAL CLASSIFICATION: MINOR COLLECTOR
DESIGN SPEED: 40 MPH
DESIGN TRAFFIC: 325 ADT

STA. 9+81
PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE.
THREE SPANS AT 36'-0"
28'-0" RDWY., SKEW = 10°
EXISTING STRUCTURE NO. 087-3016
PROPOSED STRUCTURE NO. 087-3597

IMPROVEMENT ENDS
STATION 15+00

IMPROVEMENT BEGINS
STATION 5+00



LOCATION MAP

APPROXIMATE SCALE: 0 1/2 MILE
NET LENGTH OF SECTION = 1,000 FEET = 0.189 MILES



WARNING

**CALL 811
BEFORE YOU DIG**

DIG NO: A1143281

ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED 10-28-21
[Signature]
COUNTY ENGINEER

PASSED 11/15/21
[Signature]
DISTRICT SEVEN ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review
11/15/21
[Signature]
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE: 11/11/2021

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

184.000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

EXPIRES: 11/30/2023 PROJECT NUMBER: 20.0002.130 DATE: 11/11/2021

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0010	
		UNIT	TOTAL
* ^ 20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	14
^ 20200100	EARTH EXCAVATION	CU YD	1,400
20300100	CHANNEL EXCAVATION	CU YD	560
^ 25000200	SEEDING, CLASS 2	ACRE	0.9
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	81
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	81
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	81
^ 25100115	MULCH, METHOD 2	ACRE	0.9
^ 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	180
28000305	TEMPORARY DITCH CHECKS	FOOT	116
28000500	INLET AND PIPE PROTECTION	EACH	4
28100207	STONE RIPRAP, CLASS A4	TON	570
28200200	FILTER FABRIC	SQ YD	634
^ 28300400	AGGREGATE DITCH	TON	245
^ 35100100	AGGREGATE BASE COURSE, TYPE A	TON	1,636
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	4,897
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	524
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	282
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	223
44004000	PAVED DITCH REMOVAL	FOOT	420
48101200	AGGREGATE SHOULDERS, TYPE B	TON	348
^ 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1
50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	50.2
50300280	CONCRETE ENCASEMENT	CU YD	31.2
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	3,024
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5,790
* 50901050	STEEL RAILING, TYPE SM	FOOT	215
51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	1,470
51202305	DRIVING PILES	FOOT	1,470
51203200	TEST PILE METAL SHELLS	EACH	2
51500100	NAME PLATES	EACH	1
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	36
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	78

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0010	
		UNIT	TOTAL
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	40
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	341
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	162
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	60
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	39
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	112
63200310	GUARDRAIL REMOVAL	FOOT	100
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
67100100	MOBILIZATION	L SUM	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2022", (HERE IN AFTER REFERRED TO AS THE STANDARD SPECIFICATIONS; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2022; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE DOCUMENTS.
- ALL CLEARING, GRUBBING, FENCE REMOVAL, PAVEMENT REMOVAL, AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. ALL AGGREGATE AND BITUMINOUS PAVEMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. REMOVAL AND DISPOSAL OF PAVEMENT 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 STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF THE DEPARTMENT.
- THE LOCATION ON THE PLANS OF EXISTING DRAINAGE STRUCTURES, TELEPHONE LINES, ELECTRIC LINES, WATER SERVICE LINES, GAS MAINS, AND OTHER UTILITY FACILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES

AGGREGATE BASE COURSE	2.05 TON/CU YD
HOT MIX ASPHALT	112 LBS/SQ YD/INCH THICKNESS
POROUS GRANULAR EMBANKMENT	1.50 TON/CU YD
STONE RIPRAP	1.75 TON/CU YD
FERTILIZER NUTRIENT	90 LBS/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LBS/ACRE

BITUMINOUS MATERIALS RATES	
SURFACE TYPE	RESIDUAL RATE
AGGREGATE BASE (PRIME COAT)	0.250 LB/SQ FT
TACK COAT (BETWEEN LIFTS)	0.025 LB/SQ FT
- THE FINAL SURFACE OF ALL EMBANKMENT AREAS SHALL BE SEEDED. THE TOP 4 INCHES OF THE SEEDED AREAS SHALL BE TOPSOIL SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING TOP SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- THE EXISTING PAVEMENT WIDTH SHALL BE SAWCUT AT THE BEGINNING & ENDS OF IMPROVEMENT. THIS COST SHALL BE INCLUDED IN EARTH EXCAVATION.

FILE NAME = 200002-shit-summary.dgn	USER NAME = rhostick	DESIGNED - S.W.M.	REVISED -	STATE OF ILLINOIS SHELBY COUNTY HIGHWAY DEPARTMENT	SUMMARY OF QUANTITIES AND GENERAL NOTES	C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3043 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = SSCALES	DRAWN - R.D.H.	REVISED -			41	18-00287-00-BR	SHELBY	35	2
ILLINOIS PROFESSIONAL DESIGN FIRM 18 / P.E. / S.E. CORP. 184-000259	PLOT DATE = 11/11/2021	CHECKED - S.W.M.	REVISED -			WESTERVELT ROAD		CONTRACT NO. 95907		
		DATE - 11/11/2021	REVISED -			SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO	STA.

DITCH SCHEDULE		
LOCATION	PAVED DITCH REMOVAL	AGGREGATE DITCH
CH 41	44004000	28300400
	FOOT	TON
LT. STA. 10+10 TO LT. STA. 11+30		47
LT. STA. 11+70 TO LT. STA. 14+00		134
RT. STA. 12+90 TO RT. STA. 14+00		64
LT. STA. 11+33 TO 14+43	310	
RT. STA. 12+87 TO RT. STA. 13+97	110	
TOTAL	420	245

TEMPORARY DITCH CHECK SCHEDULE	
LOCATION	TEMPORARY DITCH CHECK
CH 41	28000305
	FOOT
RT. STA. 6+00	11
RT. STA. 7+00	11
LT. STA. 7+00	11
RT. STA. 9+25	10
LT. STA. 9+25	10
RT. STA. 10+40	10
LT. STA. 10+40	10
LT. STA. 12+25	11
LT. STA. 13+00	11
LT. STA. 14+00	10
RT. STA. 14+00	11
TOTAL	116

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
LOCATIONS(S)	CH 41	CH 41
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE	LEVELING BINDER COURSE
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
MIXTURE WEIGHT:	112 LBS \ SY \ INCH THICKNESS	112 LBS \ SY \ INCH THICKNESS
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA

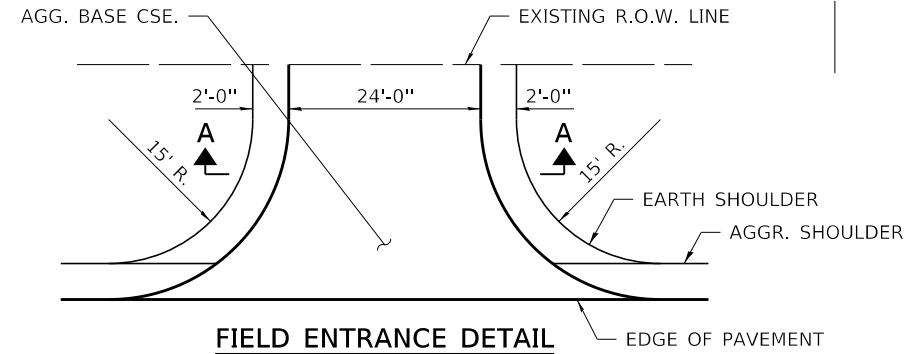
GUARDRAIL SCHEDULE				
LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REMOVAL
CH 41	63100087	63100167	72501000	63200310
	EACH	EACH	EACH	FOOT
LT. STA. 8+61.93 TO LT. STA. 11+20.14	2	2	2	50
RT. STA. 8+41.86 TO RT. STA. 11+00.07	2	2	2	50
TOTAL	4	4	4	100

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
CH 41							
STA. 5+00.00 TO STA. 9+26.24	628		25.00%	100.00%	471	376	95
STA. 9+26.24 TO STA. 10+35.76	1	560	25.00%	70.00%	295	106	189
STA. 10+35.76 TO STA. 15+00.00	771		25.00%	100.00%	579	444	135
ENTRANCE STA. 6+05.00						137	-137
TOTAL	1400	560			1345	1063	282
USE	1400	560					280

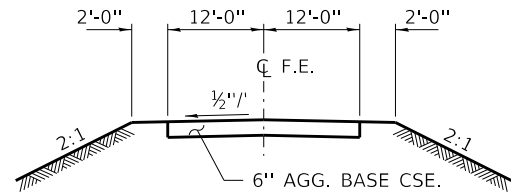
WASTE 280 CU YDS

SEEDING TABLE						
LOCATION	SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2	TEMPORARY EROSION CONTROL SEEDING
	25000200	25000400	25000500	25000600	25100115	28000250
CH 41	ACRE	POUND	POUND	POUND	ACRE	POUND
STA. 5+00.00 TO STA. 9+26.24	0.4	36	36	36	0.4	80
STA. 10+35.76 TO STA. 15+00.00	0.5	45	45	45	0.5	100
TOTAL	0.9	81	81	81	0.9	180

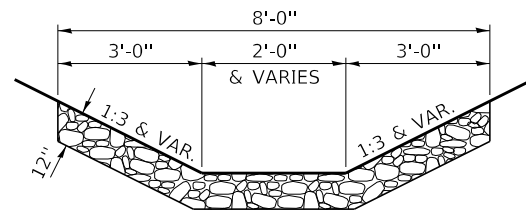
ROADWAY SCHEDULE						
LOCATION	AGGREGATE BASE COURSE, TYPE A	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	AGGREGATE SHOULDERS, TYPE B
	35100100	40600275	40600290	40603080	40604050	48101200
CH 41	TON	POUND	POUND	TON	TON	TON
STA. 5+00.00 TO STA. 9+26.24	712	2344	213	135	80	163
STA. 9+26.24 TO STA. 10+35.76			79		56	
STA. 10+35.76 TO STA. 15+00.00	776	2553	232	147	87	185
ENTRANCES	148					
TOTAL	1636	4897	524	282	223	348



FIELD ENTRANCE DETAIL



SECTION A-A

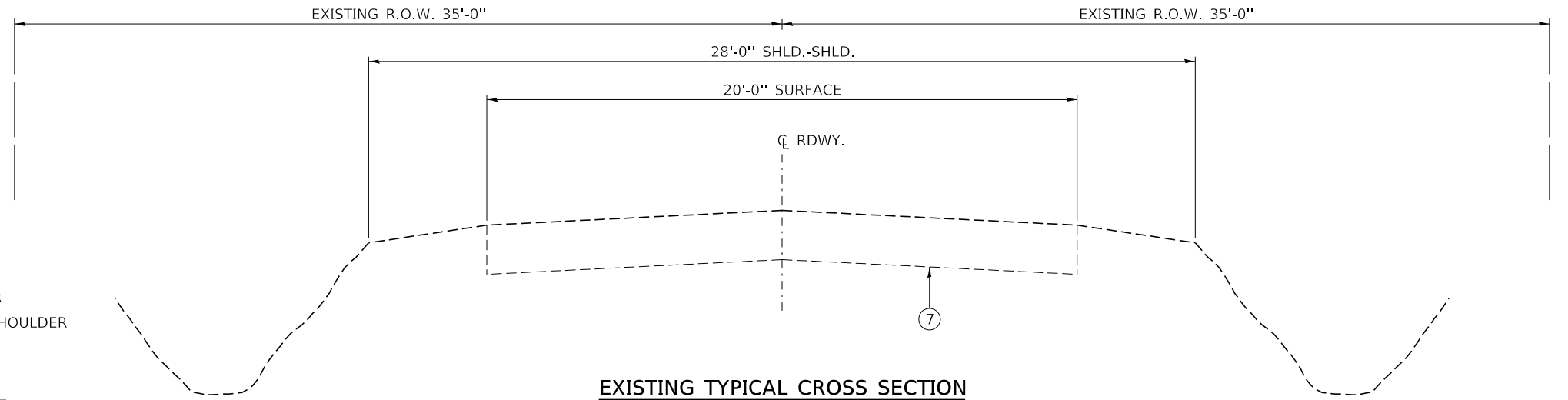


AGGREGATE DITCH

LT. STA. 10+10 TO STA. 11+30
 LT. STA. 11+70 TO STA. 14+00
 RT. STA. 12+90 TO STA. 14+00

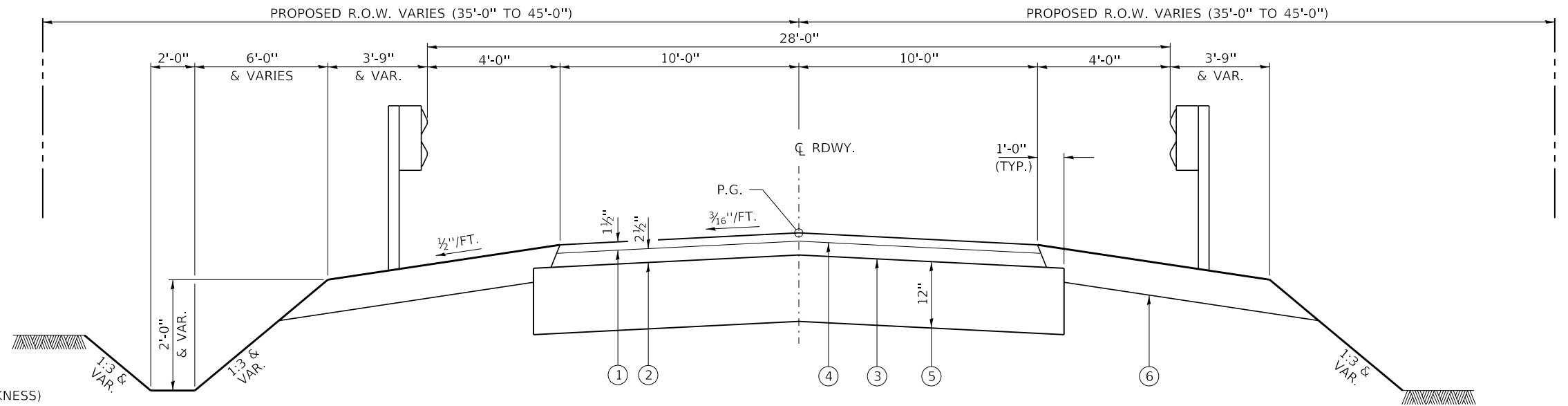
LEGEND

- ① HMA SURFACE COURSE, IL-9.5, MIX C, N50 (1½" THICKNESS)
- ② HMA BINDER COURSE, IL-19.0, N50 (2½" THICKNESS)
- ③ BITUMINOUS MATERIALS (PRIME COAT)
- ④ BITUMINOUS MATERIALS (TACK COAT)
- ⑤ AGGREGATE BASE COURSE, TYPE A (12")
- ⑥ AGGREGATE SHOULDERS, TYPE B (6")
- ⑦ EXISTING HMA SURFACE



EXISTING TYPICAL CROSS SECTION

STA. 5+00 TO 15+00



PROPOSED TYPICAL CROSS SECTION

STA. 5+00 TO 15+00

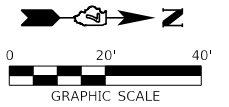
SUGGESTED CUT SECTION
 CONSTRUCT AS SHOWN IN
 STATION CROSS SECTIONS

SUGGESTED FILL SECTION
 CONSTRUCT AS SHOWN IN
 STATION CROSS SECTIONS

FILE NAME = 200002-shi-typsections.dgn	USER NAME = rhosick	DESIGNED - S.W.M.	REVISED -	STATE OF ILLINOIS SHELBY COUNTY HIGHWAY DEPARTMENT	TYPICAL CROSS SECTIONS			C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -		41	18-00287-00-BR	SHELBY	35	4			
PLOT DATE = 11/11/2021	DATE = 11/11/2021	CHECKED - S.W.M.	REVISED -		WESTERVELT ROAD			CONTRACT NO. 95907				
		DATE = 11/11/2021	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT 7CRW(135)				

MARILYN LOGAN, TRUSTEE
SW 1/4, SEC 22, T. 12 N., R. 3 E., 3RD P.M.

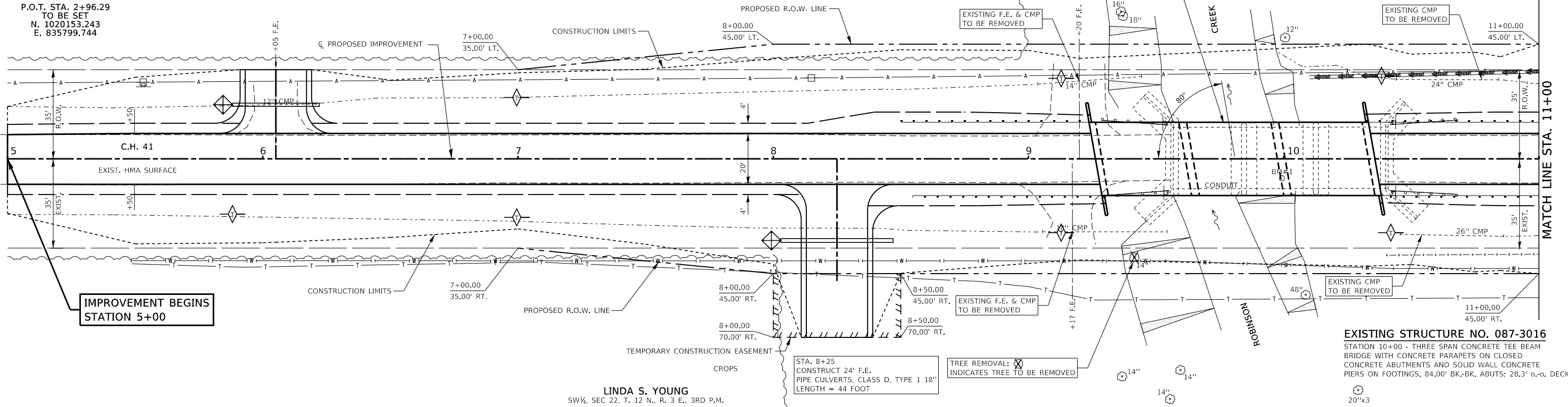
STA. 9+81
PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE
THREE SPANS @ 36'-0"
28'-0" ROADWAY; SKEW = 10°
PROPOSED SN 087-3597



P.O.T. STA. 2+96.29
TO BE SET
N. 1020153.243
E. 835799.744

STA. 6+05
CONSTRUCT 24" F.E.
PIPE CULVERTS, CLASS D, TYPE 1 15"
LENGTH = 36 FOOT
EXISTING CMP TO BE REMOVED

DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	



IMPROVEMENT BEGINS
STATION 5+00

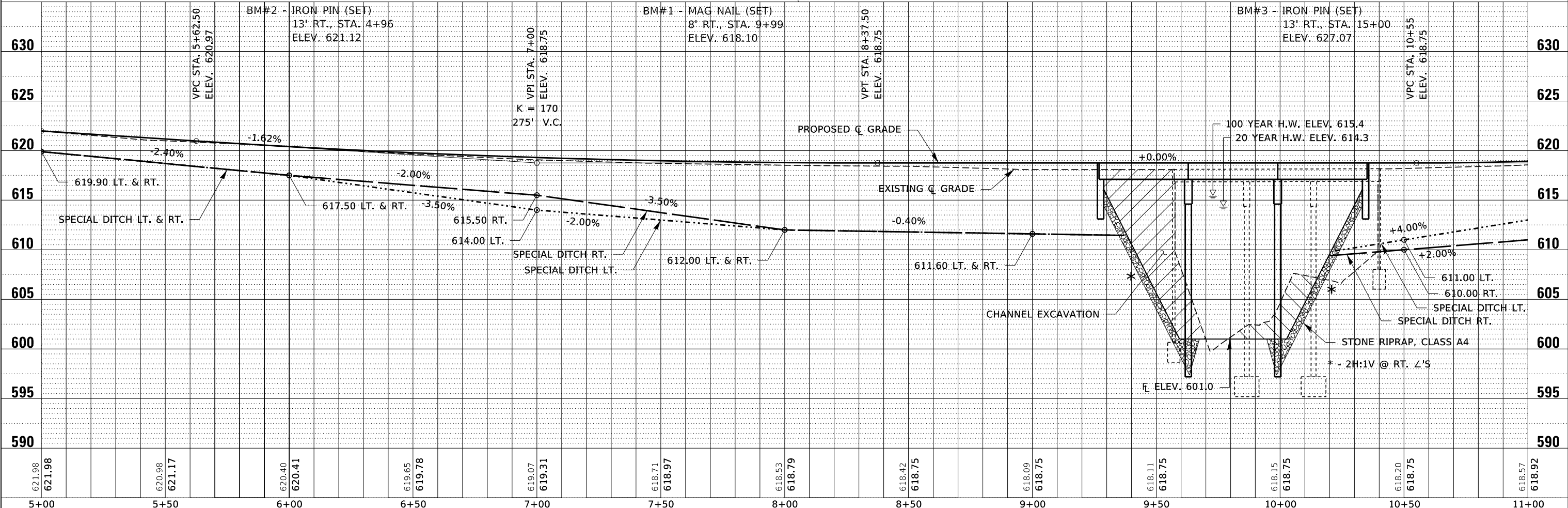
EXISTING STRUCTURE NO. 087-3016
STATION 10+00 - THREE SPAN CONCRETE TEE BEAM
BRIDGE WITH CONCRETE PARAPETS ON CLOSED
CONCRETE ABUTMENTS AND SOLID WALL CONCRETE
PIERS ON FOOTINGS. 84.00' BK-BK. ABUTS; 28.3' o-o. DECK.

LINDA S. YOUNG
SW 1/4, SEC 22, T. 12 N., R. 3 E., 3RD P.M.

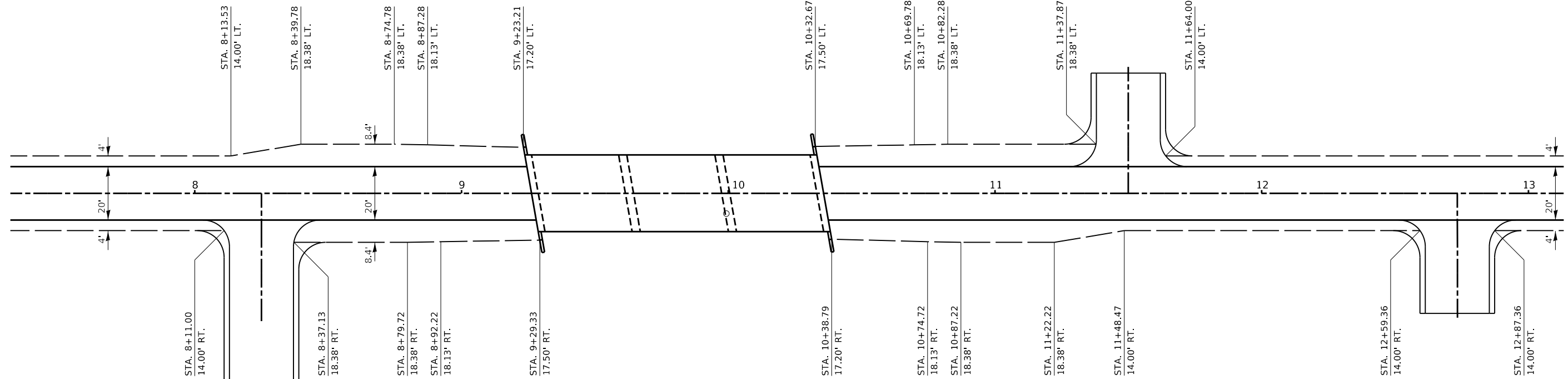
STA. 8+25
CONSTRUCT 24" F.E.
PIPE CULVERTS, CLASS D, TYPE 1 18"
LENGTH = 44 FOOT

TREE REMOVAL: INDICATES TREE TO BE REMOVED

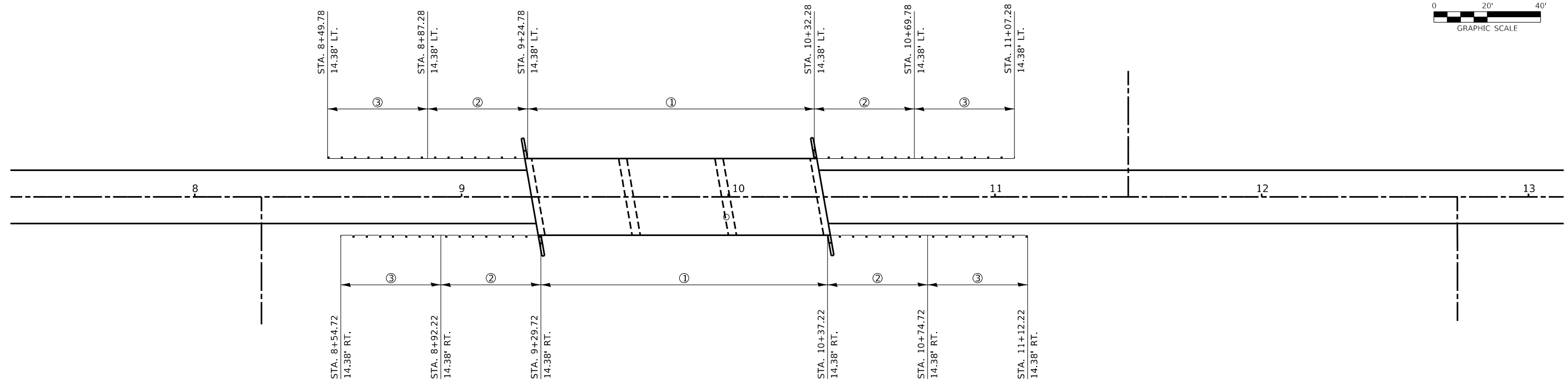
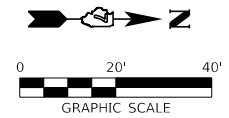
DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	



FILE NAME = 200002-shl-planprfdgn	USER NAME = rmosick	DESIGNED - S.A.A.	REVISED -	<p align="center">STATE OF ILLINOIS SHELBY COUNTY HIGHWAY DEPARTMENT</p>	<p align="center">PLAN & PROFILE</p>	C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -			41	18-00287-00-BR	SHELBY	35	5
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000959		CHECKED - J.W.F.	REVISED -			WESTERVELT ROAD		CONTRACT NO. 95907		
		DATE - 11/11/2021	REVISED -			SCALE: 5V:20H	SHEET NO. 1 OF 2 SHEETS	STA. 7+00.00 TO STA. 13+00.00	ILLINOIS FED. AID PROJECT 7CRW(135)	



SHOULDER LAYOUT



GUARDRAIL LAYOUT

LEGEND

- ① STEEL RAILING, TYPE SM
- ② TBT TY 6A
- ③ TBT TY 1, SPECIAL TANGENT

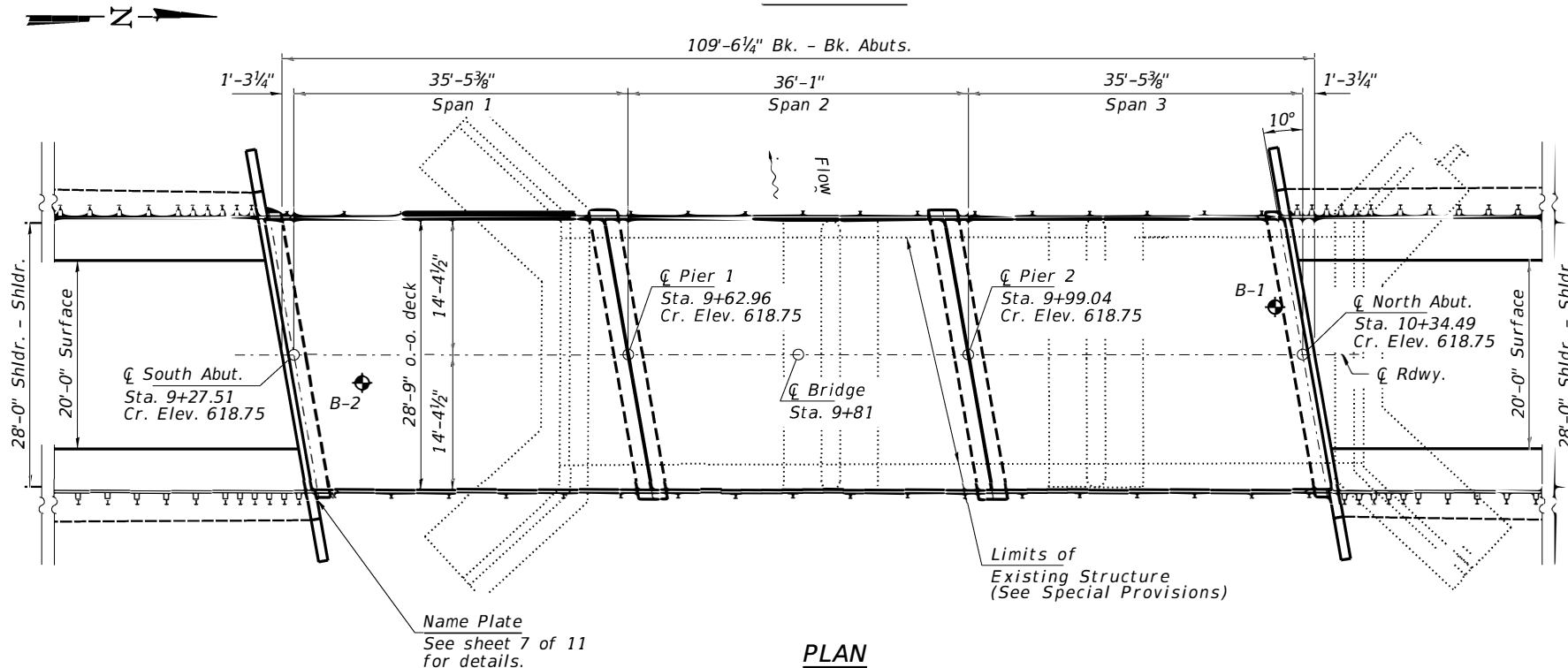
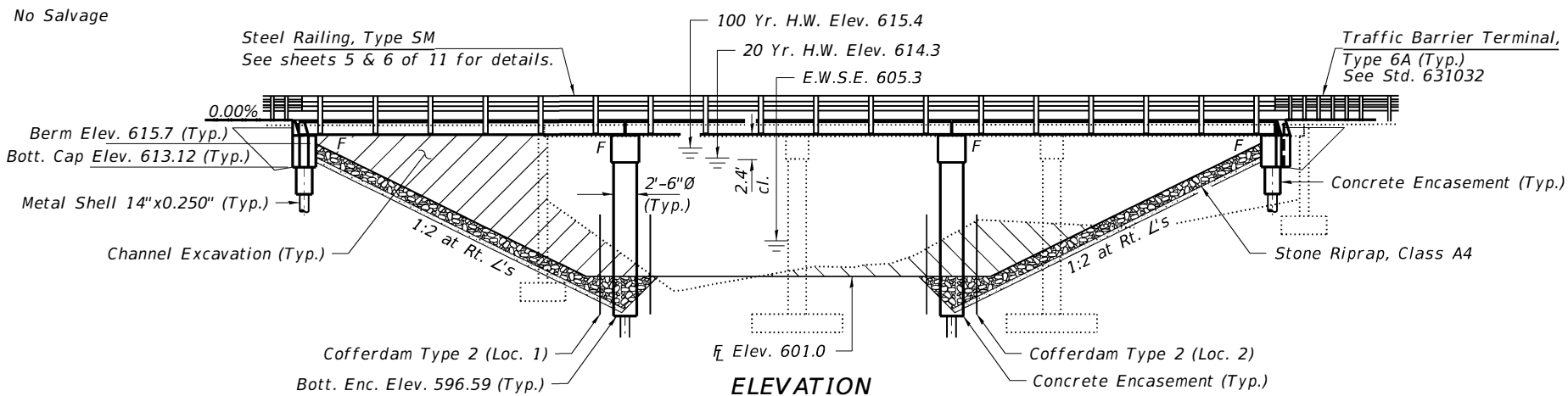
FILE NAME = 200002-shi-shdgrd.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS SHELBY COUNTY HIGHWAY DEPARTMENT	SHOULDER AND GUARDRAIL DETAIL	C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -			41	18-00287-00-BR	SHELBY	35	7	
PLOT DATE = 11/11/2021	DATE = 11/11/2021	CHECKED - S.W.M.	REVISED -			WESTERVELT ROAD		CONTRACT NO. 95907			
		DATE = 11/11/2021	REVISED -			SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		
						ILLINOIS FED. AID PROJECT 7CRW(135)					

BENCHMARK: Mag Nail (Set) 8.0' Rt., Sta. 9+99, Elev. 618.10

EXISTING STRUCTURE NO. 087-3016: Sta. 10+00 - Three span concrete Tee beam bridge with concrete parapets on closed concrete abutments and solid wall concrete piers on footings. 84.0' bk.-bk. abuts; 28.3' o.-o. deck.

Structure closed to traffic during construction.

No Salvage



DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition with all applicable interims.

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface. Soil Site Class = D

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (1/2") low lax. strands)
fpbt = 201,960 psi (1/2") low lax. strands)
fy = 60,000 psi (Reinf.)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.180g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.368g
Soil Site Class = D

WATERWAY INFORMATION

Existing Overtopping Elev. 618.1 at Sta. 9+00
Proposed Overtopping Elev. 618.75 at Sta. 8+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Ten-Year	10	3,370	650	710	613.7	0.8	0.3	614.5	614.0
Design	20	4,180	700	750	614.3	0.8	0.4	615.1	614.7
Base	100	6,100	780	840	615.4	1.1	0.8	616.5	616.2
Scour Check	200	6,970	810	880	615.8	1.2	1.1	617.0	616.9
Max Calc.	500	8,130	850	920	616.3	1.7	1.9	618.0	618.2

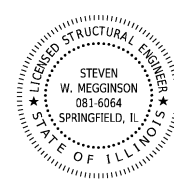
10 Year Velocity through Existing Bridge = 5.2 fps
10 Year Velocity through Proposed Bridge = 5.0 fps

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft.)			Item
	S. Abut.	Piers	N. Abut.	
Q100	613.1	589.4	613.1	5
Q200	613.1	587.9	613.1	
Design	613.1	589.4	613.1	
Check	613.1	587.9	613.1	

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

Steven W. Megginson 11/11/2021
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



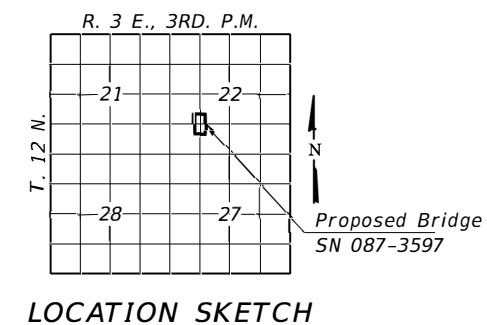
Expires 11-30-2022

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated. Protective coat shall not be applied to surfaces to which Waterproofing Membrane System is applied. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at South Abutment and Pier 2 or approved by the Engineer before ordering the remainder of piles. Excavation required to construct the Abutments and Piers shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation or Cofferdams. All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act. The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions. Limits of the existing structure are assumed. The Contractor shall ascertain their locations before driving piles. See Special Provisions. If a portion of the drilled shaft web walls or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.

INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. Riprap Layout
3. 17"x48" PPC Deck Beam - Spans 1, 2 & 3
4. 17"x48" PPC Deck Beam Details - Spans 1, 2 & 3
5. Superstructure Details
6. Steel Railing, Type SM with HMA Wearing Surface
7. Abutments
8. Piers
9. Metal Shell Pile Details
- 10-11. Borings



LOCATION SKETCH

ROBINSON CREEK
BUILT 202_ BY
SHELBY COUNTY
SEC. 18-00287-00-BR
C.H. 41
STR. NO. 087-3597
LOADING HL-93

NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			560
Stone Riprap, Class A4	Ton			570
Filter Fabric	Sq. Yd.			634
Hot-Mix Asphalt Surface Cse., IL-9.5, Mix "C", N50	Ton			56
Removal of Existing Structures	Each			1
Cofferdam (Type 2) (Location - 1)	Each			1
Cofferdam (Type 2) (Location - 2)	Each			1
Concrete Structures	Cu. Yd.		50.2	50.2
Concrete Encasement	Cu. Yd.		31.2	31.2
Precast Prestressed Conc. Deck Beams (17" Depth)	Sq. Ft.	3,024		3,024
Reinforcement Bars, Epoxy Coated	Pound		5,790	5,790
Steel Railing, Type SM	Foot	215		215
Furnishing Metal Shell Piles 12"x0.250"	Foot		1,470	1,470
Driving Piles	Foot		1,470	1,470
Test Pile Metal Shells	Each		2	2
Name Plates	Each		1	1
Waterproofing Membrane System	Sq. Yd.	341		341
Portland Cement Mortar Fairing Course	Foot	162		162
Granular Backfill for Structures	Cu. Yd.		60	60
Geocomposite Wall Drain	Sq. Yd.		39	39
Pipe Underdrains for Structures 4"	Foot		112	112

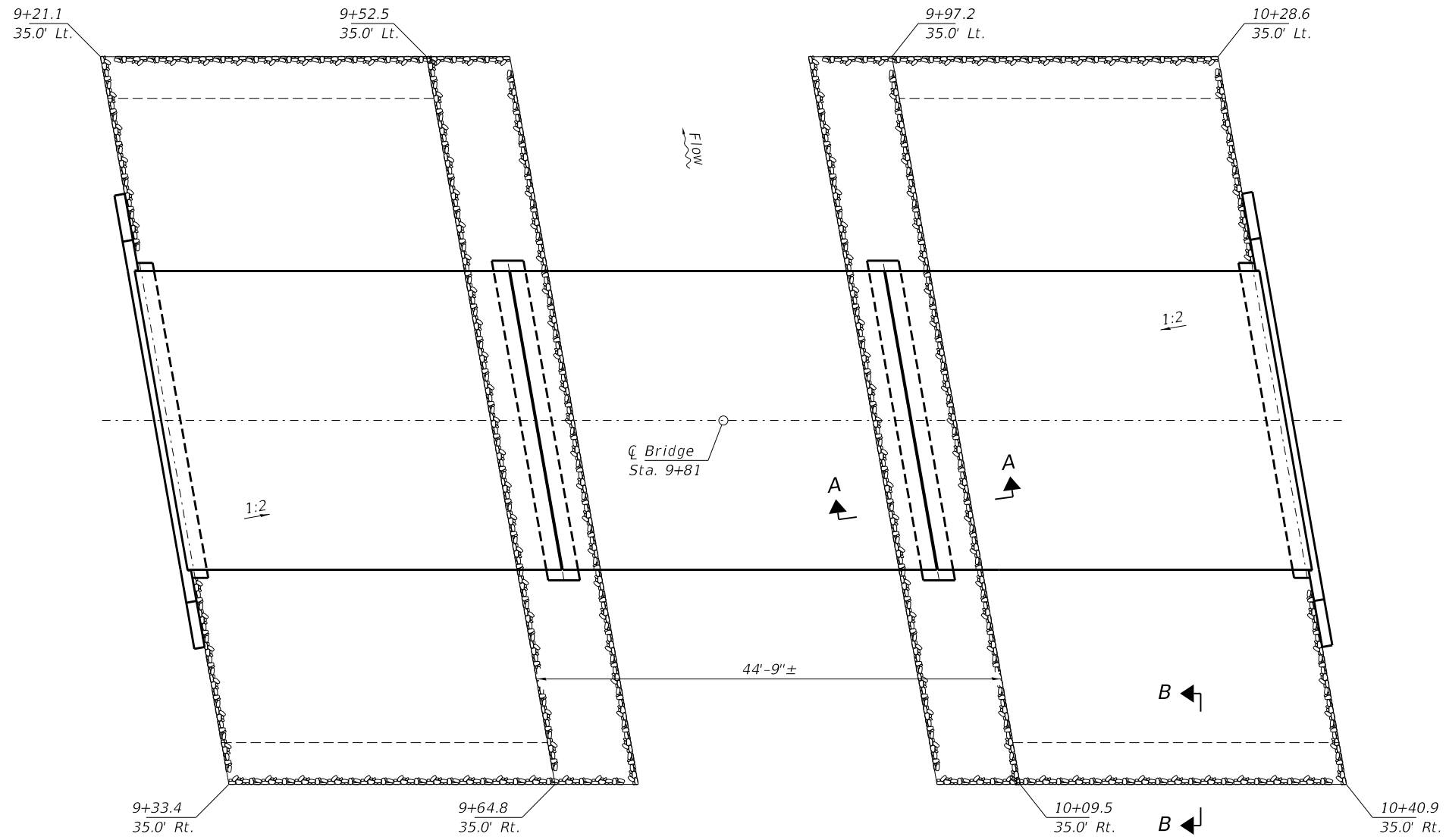
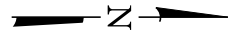
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PLOT DATE = 11/11/2021		DRAWN - R.D.H.	REVISED -
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STATE OF ILLINOIS
SHELBY COUNTY HIGHWAY DEPARTMENT

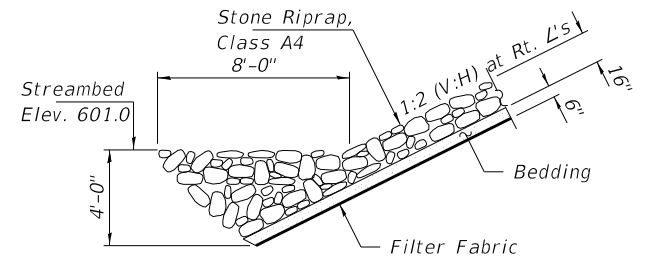
GENERAL PLAN & ELEVATION
STRUCTURE NO. 087-3597

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	18-00287-00-BR	SHELBY	35	8
WESTERVELT ROAD		CONTRACT NO. 95907		
ILLINOIS FED. AID PROJECT 7CRW(135)				

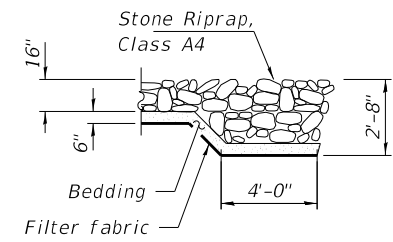
SHEET NO. 1 OF 11 SHEETS



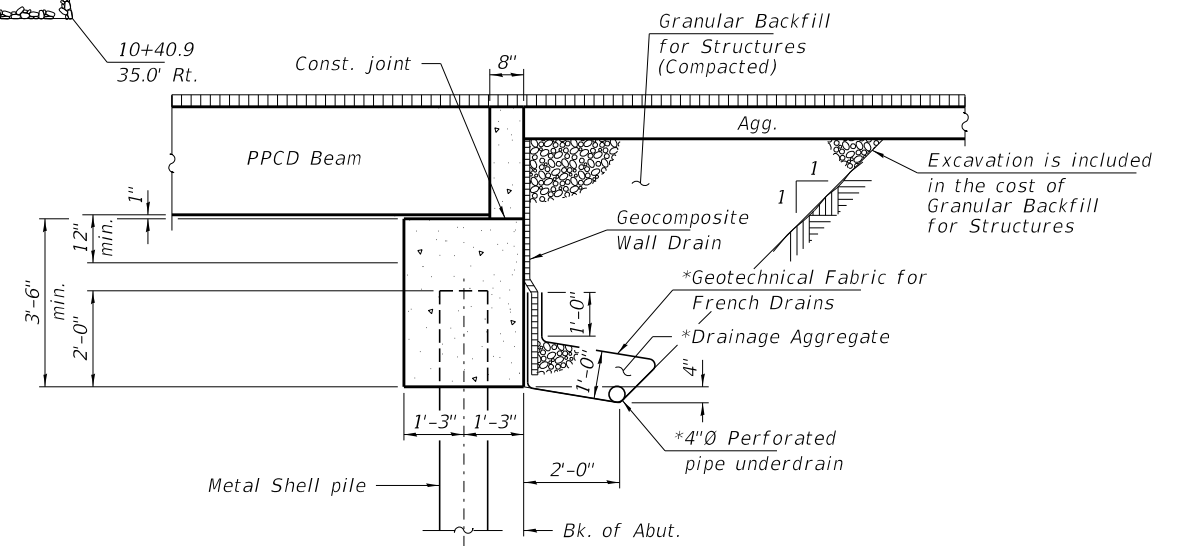
PLAN



SECTION A-A



SECTION B-B



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

*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

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).

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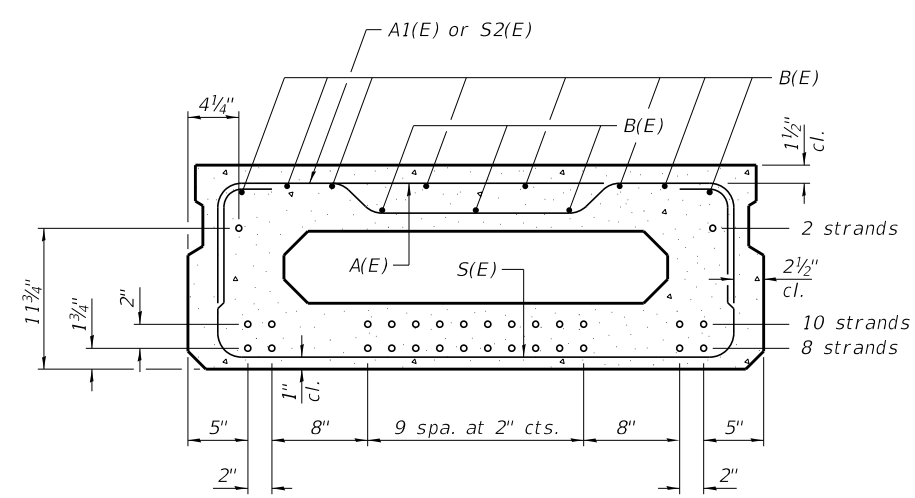
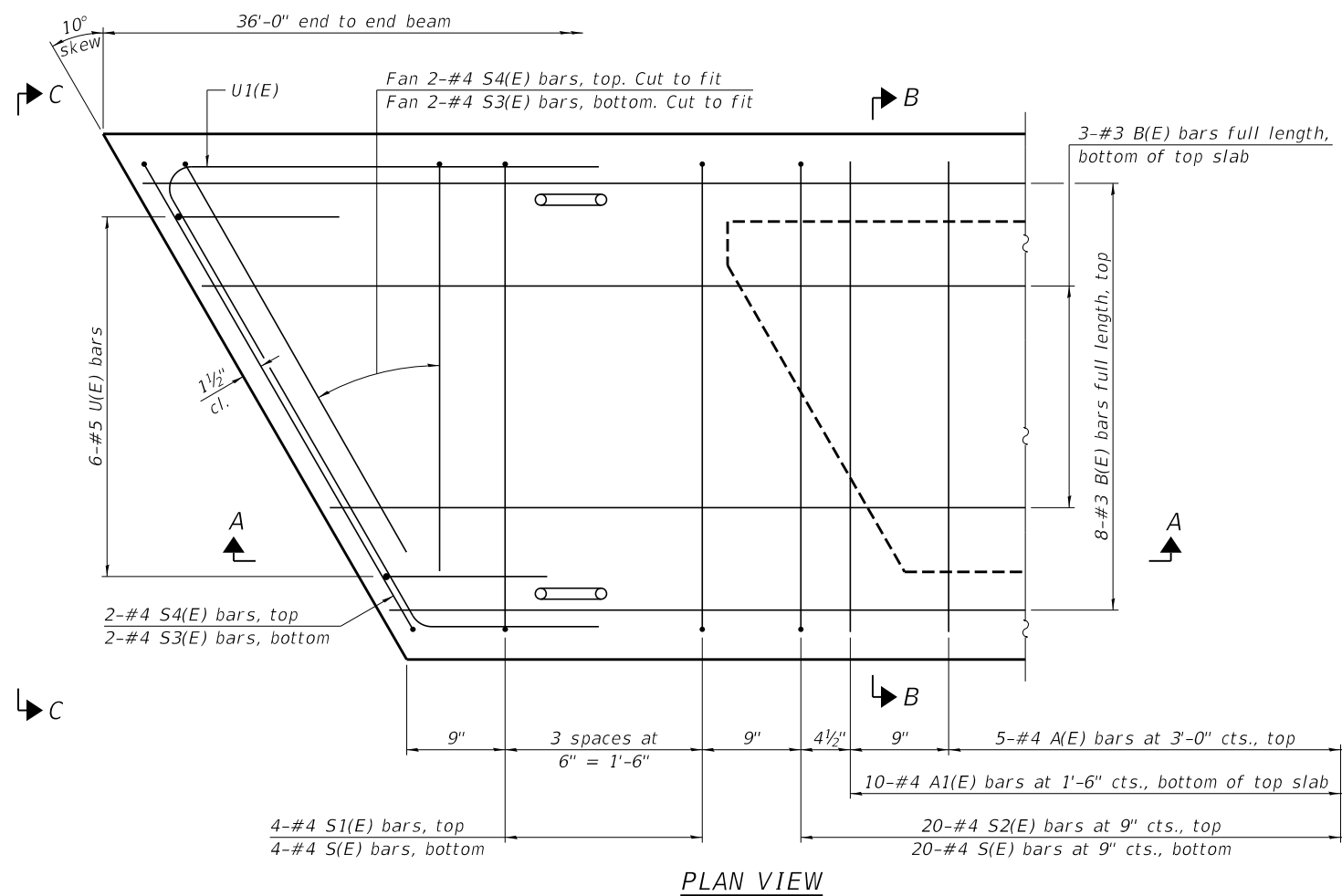
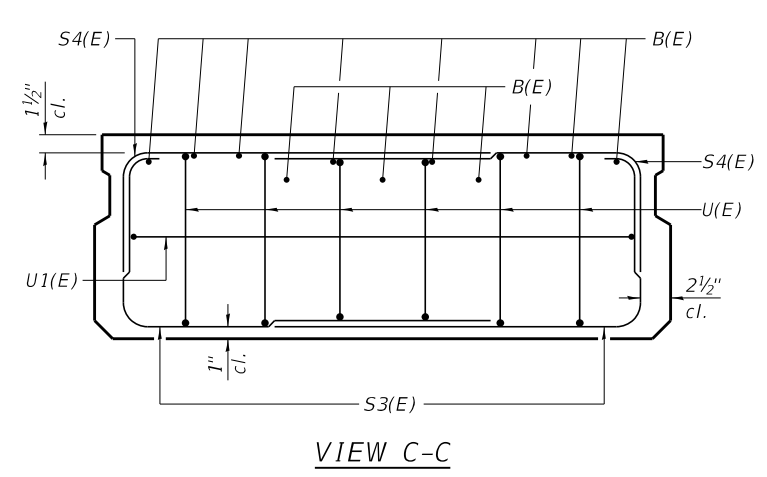
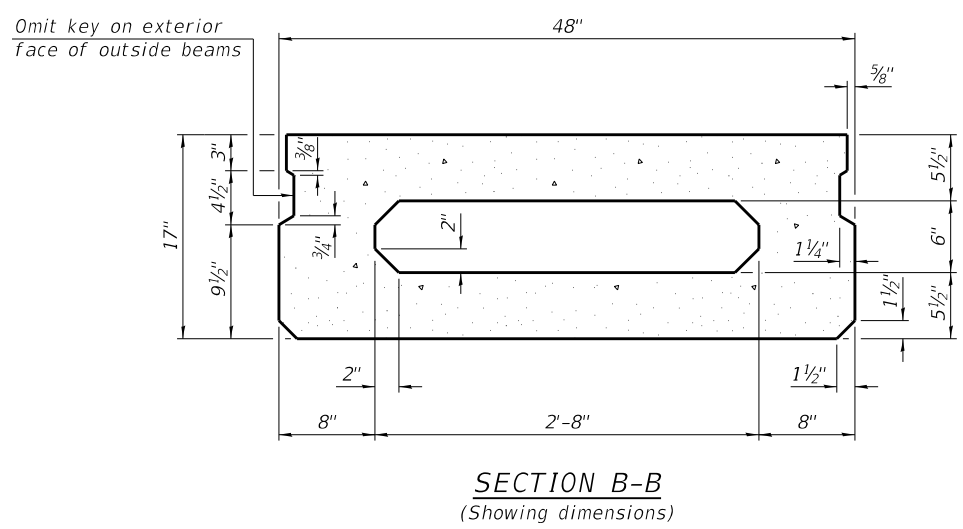
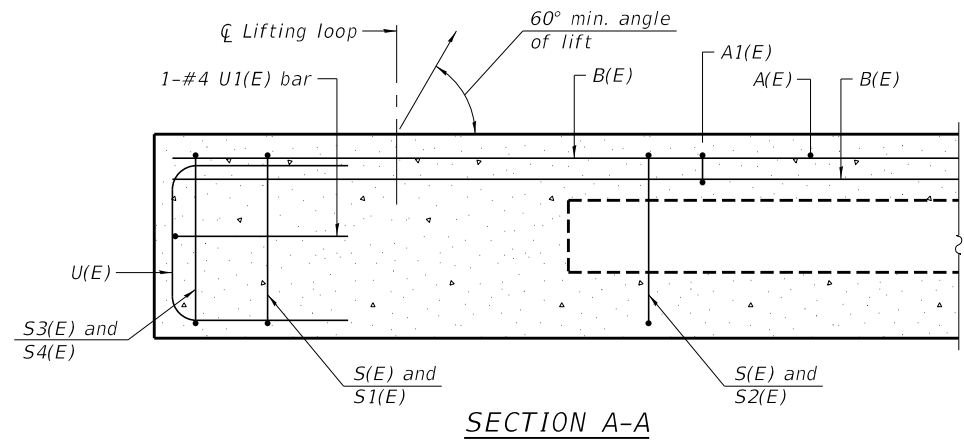
STATE OF ILLINOIS
SHELBY COUNTY HIGHWAY DEPARTMENT

RIPRAP LAYOUT
STRUCTURE NO. 087-3597

SHEET NO. 2 OF 11 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	18-00287-00-BR	SHELBY	35	9
WESTERVELT ROAD		CONTRACT NO. 95907		

ILLINOIS FED. AID PROJECT 7CRW(135)



BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	11	#4	3'-7"	—
A1(E)	21	#4	3'-10"	—
B(E)	11	#3	35'-8"	—
S(E)	49	#4	6'-9"	□
S1(E)	8	#4	5'-3"	□
S2(E)	41	#4	5'-6"	□
S3(E)	8	#4	4'-5"	□
S4(E)	8	#4	3'-8"	□
U(E)	12	#5	3'-8"	□
U1(E)	2	#4	6'-8"	□

Similar about \bar{C}
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MINIMUM BAR LAP
#3 bar = 1'-6"

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

Note: See sheets 4 & 5 of 11 for additional details and Bill of Material.

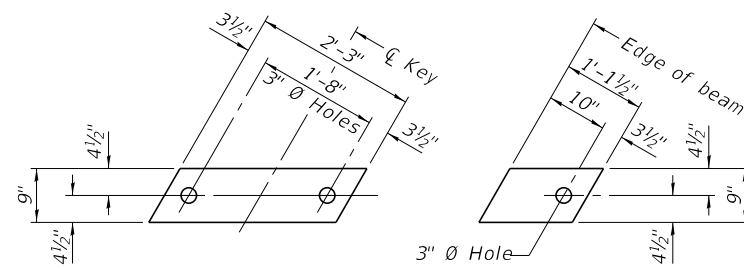
PD-1748-R 1-1-2020

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	PLOT DATE = 11/11/2021	DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
SHELBY COUNTY HIGHWAY DEPARTMENT

17" x 48" PPC DECK BEAM - SPANS 1, 2 AND 3
STRUCTURE NO. 087-3597

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	18-00287-00-BR	SHELBY	35	10
WESTERVELT ROAD		CONTRACT NO. 95907		
		ILLINOIS FED. AID PROJECT 7CRW(135)		

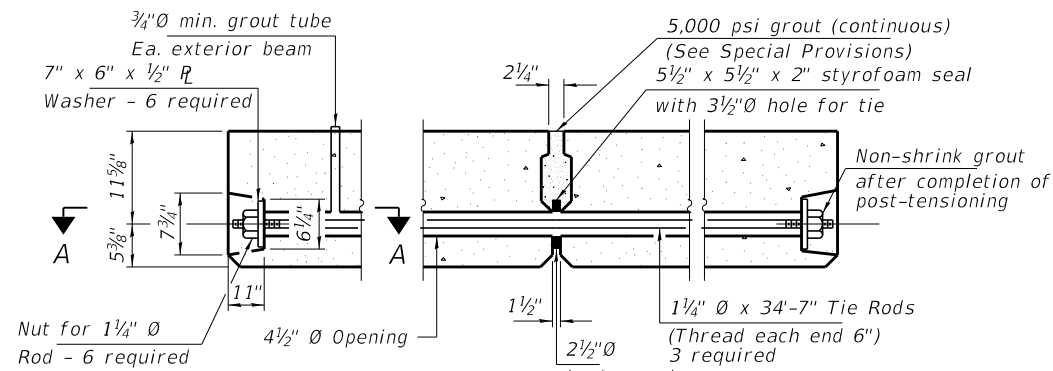


FABRIC BEARING PAD
(Interior - 36 req'd)

FABRIC BEARING PAD
(Exterior - 12 req'd)

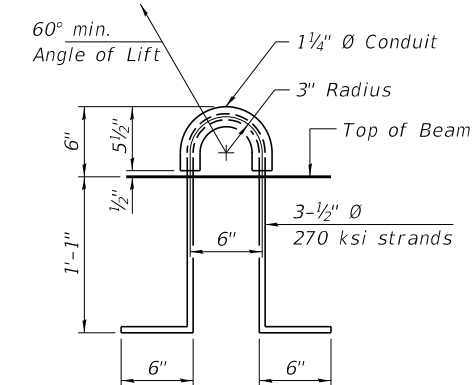
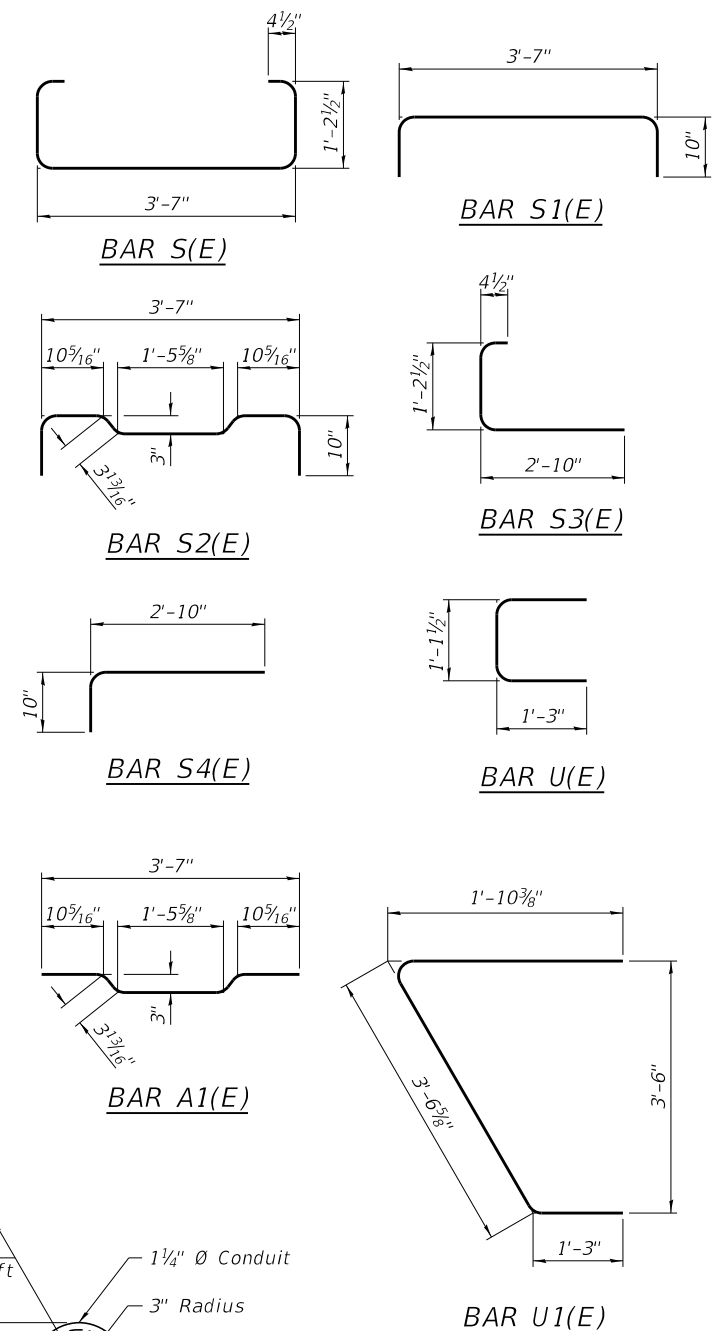
FIXED

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

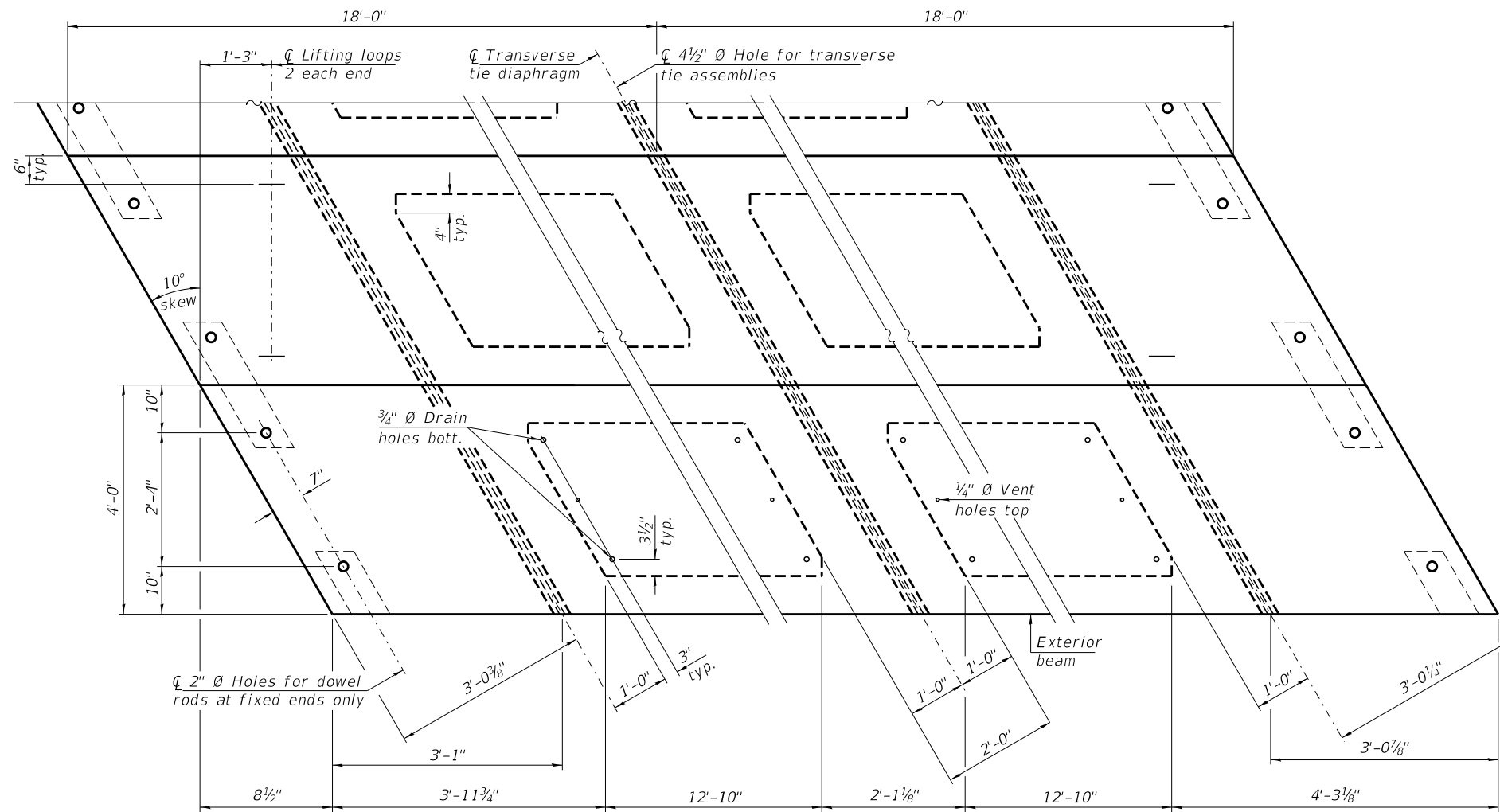


TYPICAL POST-TENSIONED TRANSVERSE TIE ASSEMBLY

Cable strands or 1 1/4" Threaded Bar tensioned to 120 kip max.
transfer stress (Lockoff) - See Special Provisions



LIFTING LOOP DETAIL



PLAN VIEW

NOTES

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

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

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	3,024
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PDD-1748-R 1-1-2020

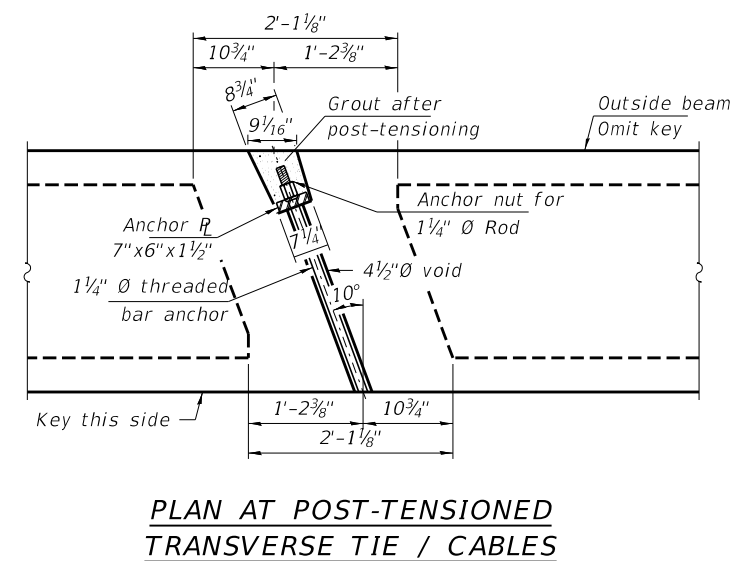
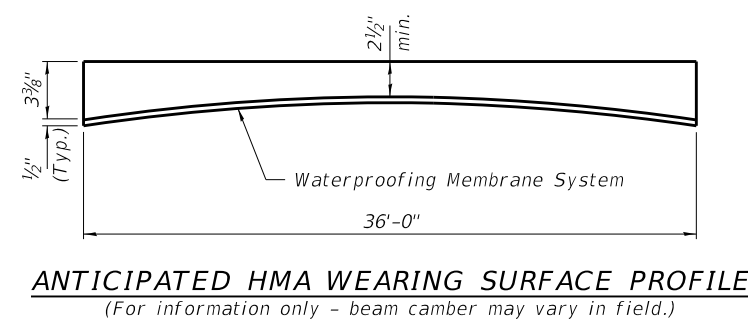
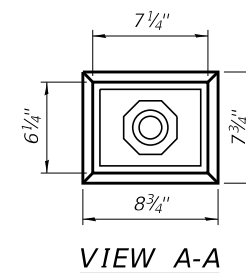
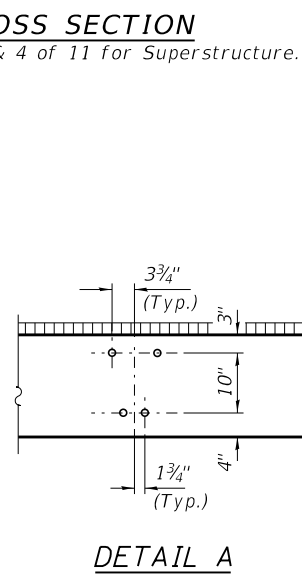
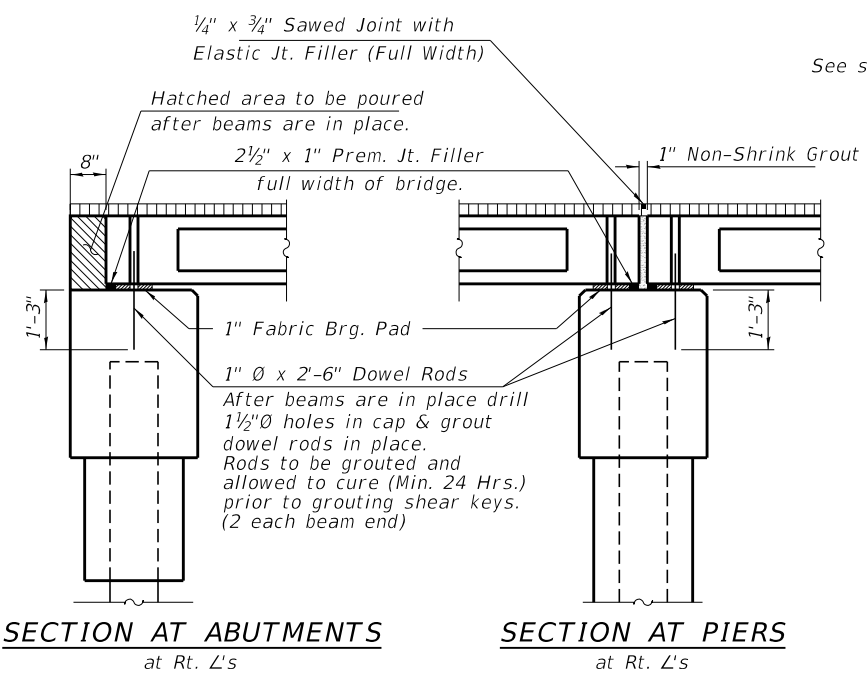
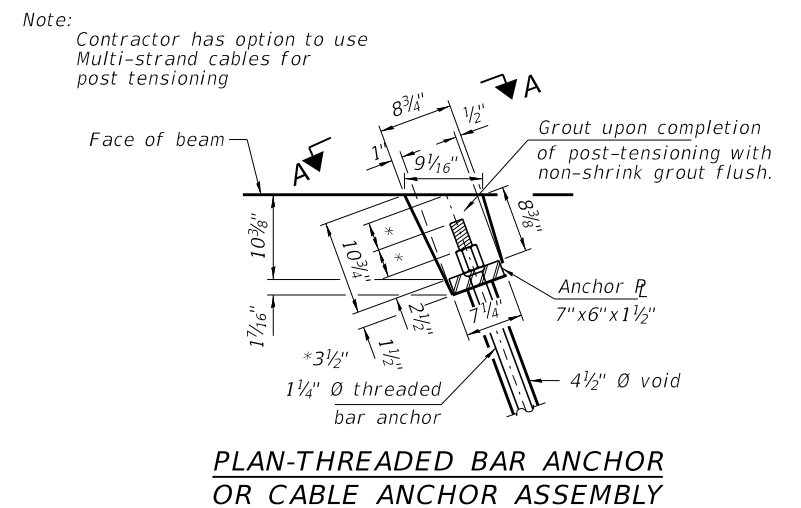
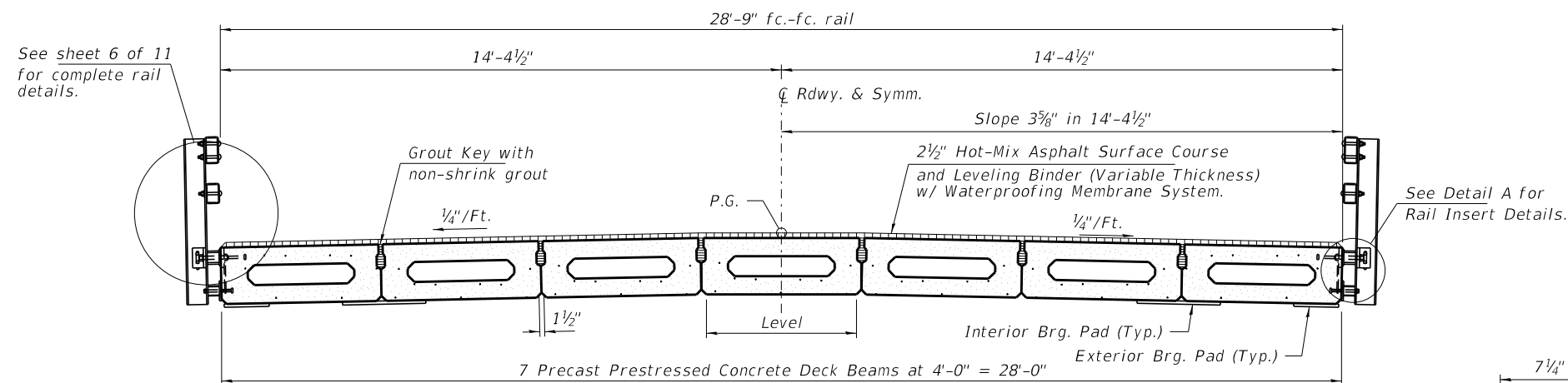
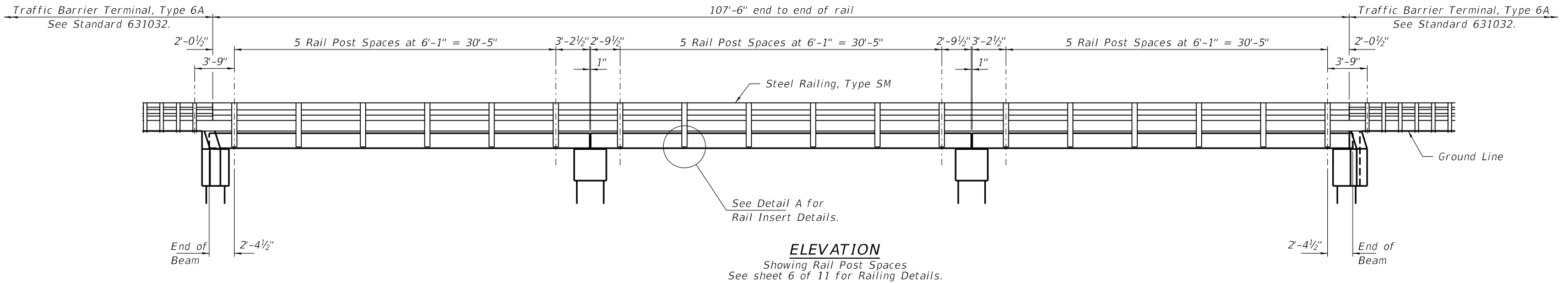
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PLOT DATE = 11/11/2021		DRAWN - R.D.H.	REVISED -
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STATE OF ILLINOIS
SHELBY COUNTY HIGHWAY DEPARTMENT

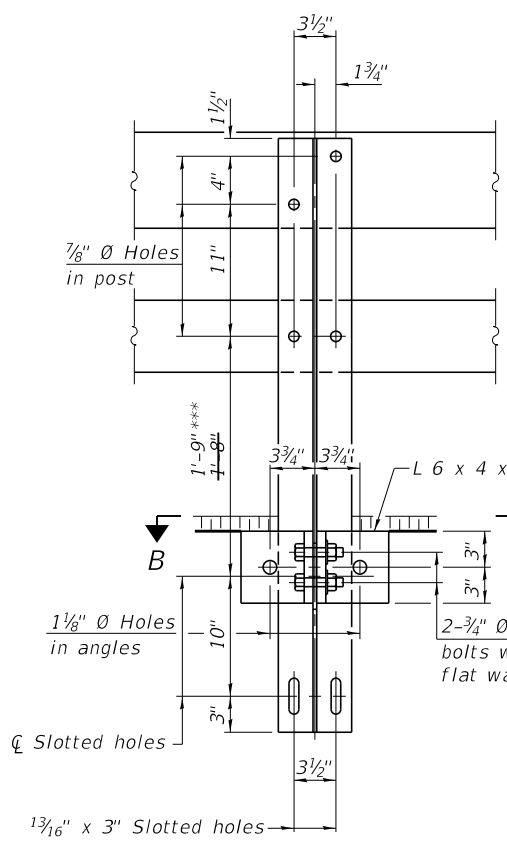
17" x 48" PPC DECK BEAM DETAILS - SPANS 1, 2 AND 3
STRUCTURE NO. 087-3597

SHEET NO. 4 OF 11 SHEETS

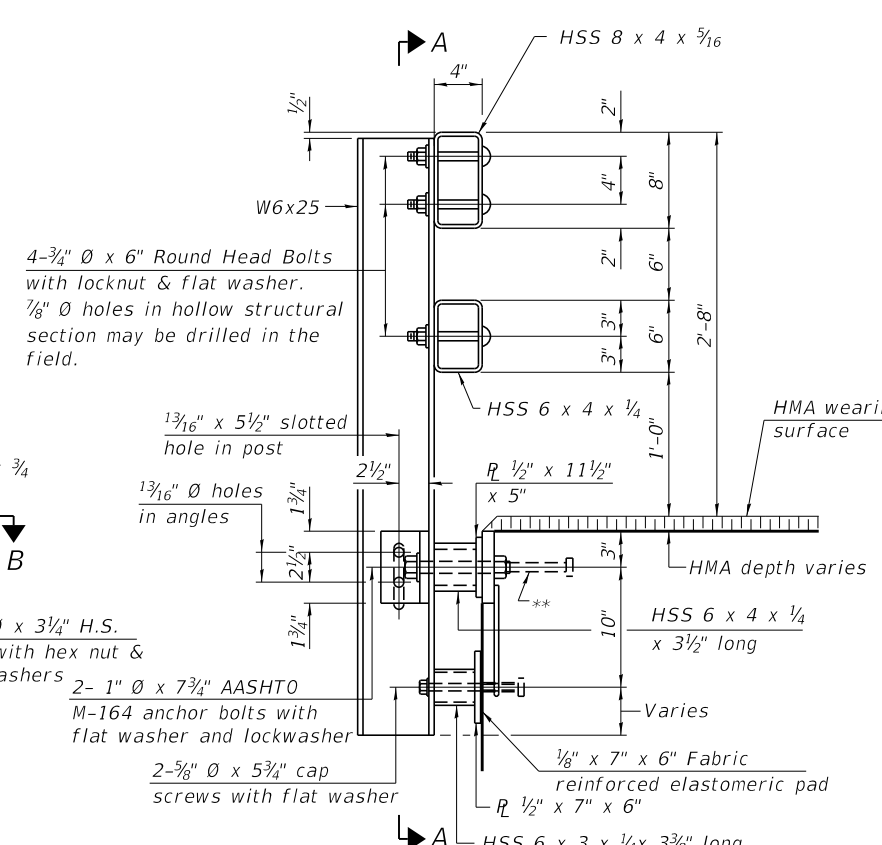
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	18-00287-00-BR	SHELBY	35	11
WESTERVELT ROAD		CONTRACT NO. 95907		
ILLINOIS		FED. AID PROJECT 7CRW(135)		



FILE NAME = 200002-shi-bridge.dgn	USER NAME = rthosck	DESIGNED - J.R.B.	REVISED -	STATE OF ILLINOIS SHELBY COUNTY HIGHWAY DEPARTMENT	SUPERSTRUCTURE DETAILS STRUCTURE NO. 087-3597	C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -			41	18-00287-00-BR	SHELBY	35	12
PLOT DATE = 11/11/2021		DRAWN - R.D.H.	REVISED -			WESTERVELT ROAD		CONTRACT NO. 95907		
		CHECKED - S.W.M.	REVISED -			SHEET NO. 5 OF 11 SHEETS		ILLINOIS FED. AID PROJECT 7CRW(135)		

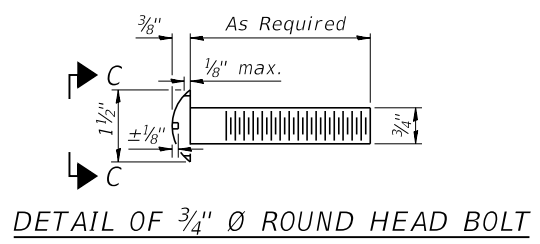


SECTION A-A

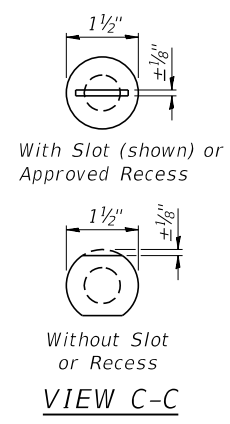


SECTION AT RAIL POST

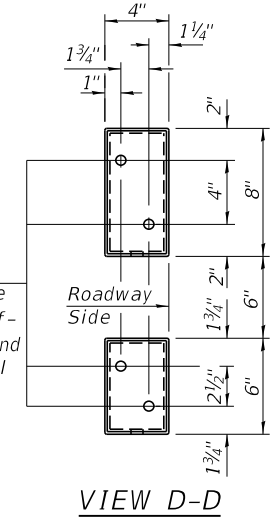
***Note change in vertical post dimension due to HMA overlay thickness and beam camber.



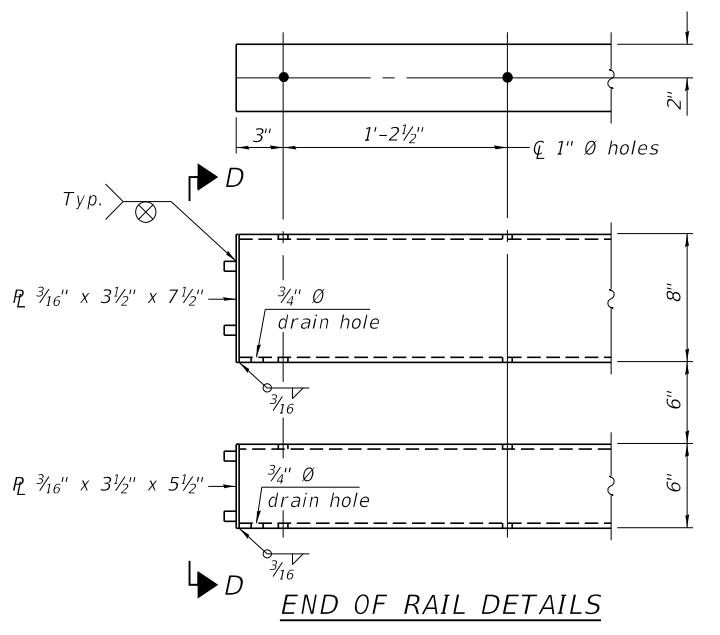
DETAIL OF 3/4" Ø ROUND HEAD BOLT



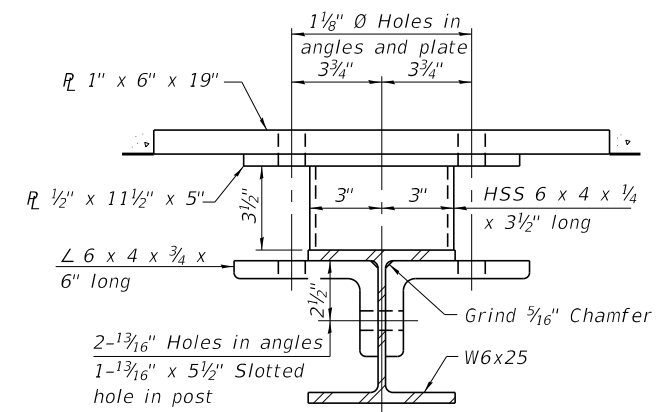
VIEW C-C



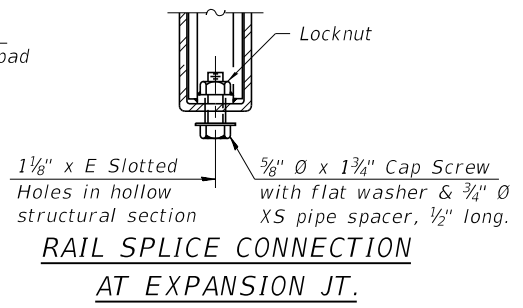
VIEW D-D



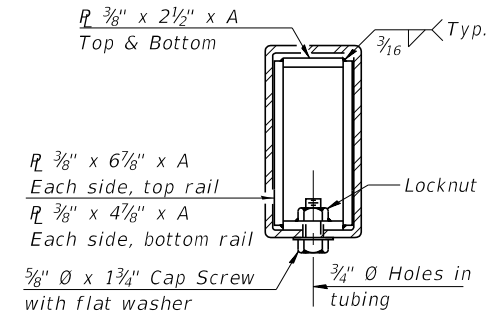
END OF RAIL DETAILS



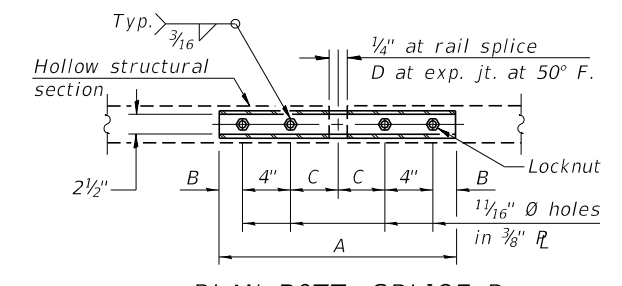
SECTION B-B



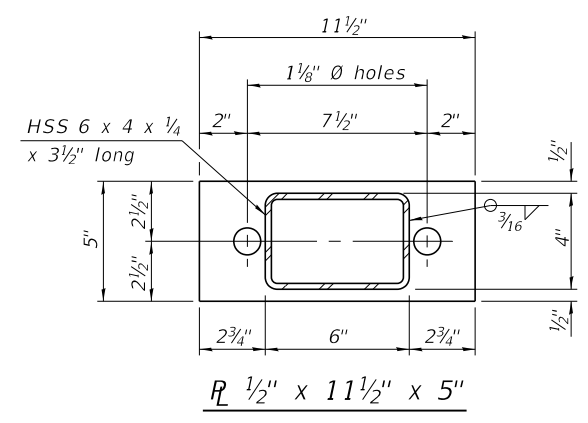
RAIL SPLICE CONNECTION AT EXPANSION JT.



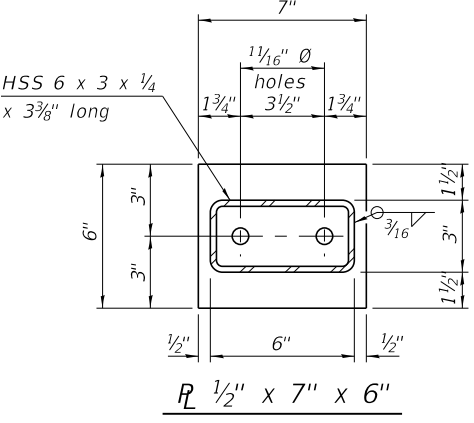
SECTION AT RAIL SPLICE



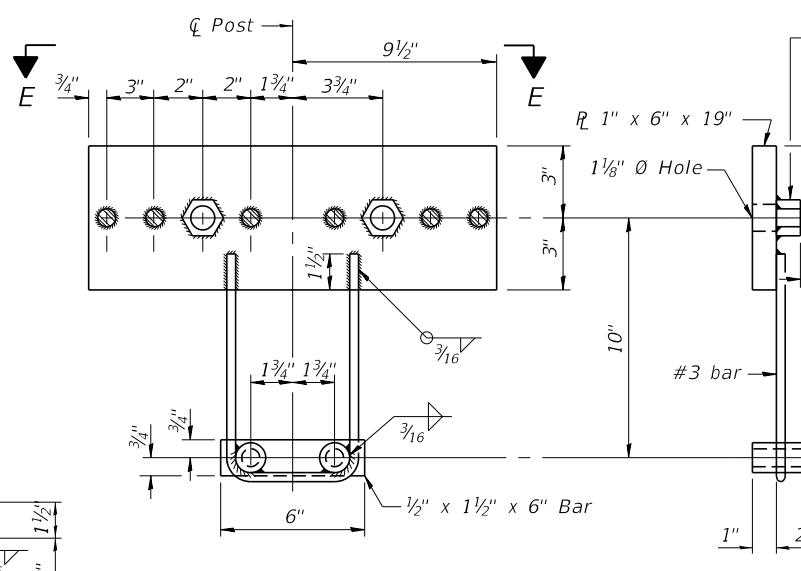
PLAN-BOTT. SPLICE R TYPICAL



R 1/2" x 11 1/2" x 5"

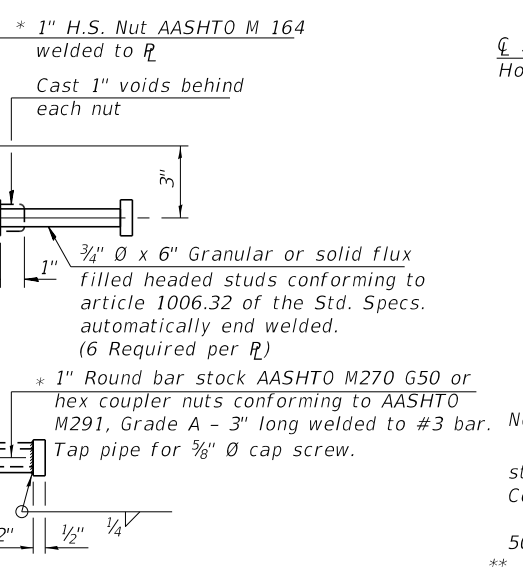


R 1/2" x 7" x 6"



ANCHOR DEVICE

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



SPLICE DIMENSIONS

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

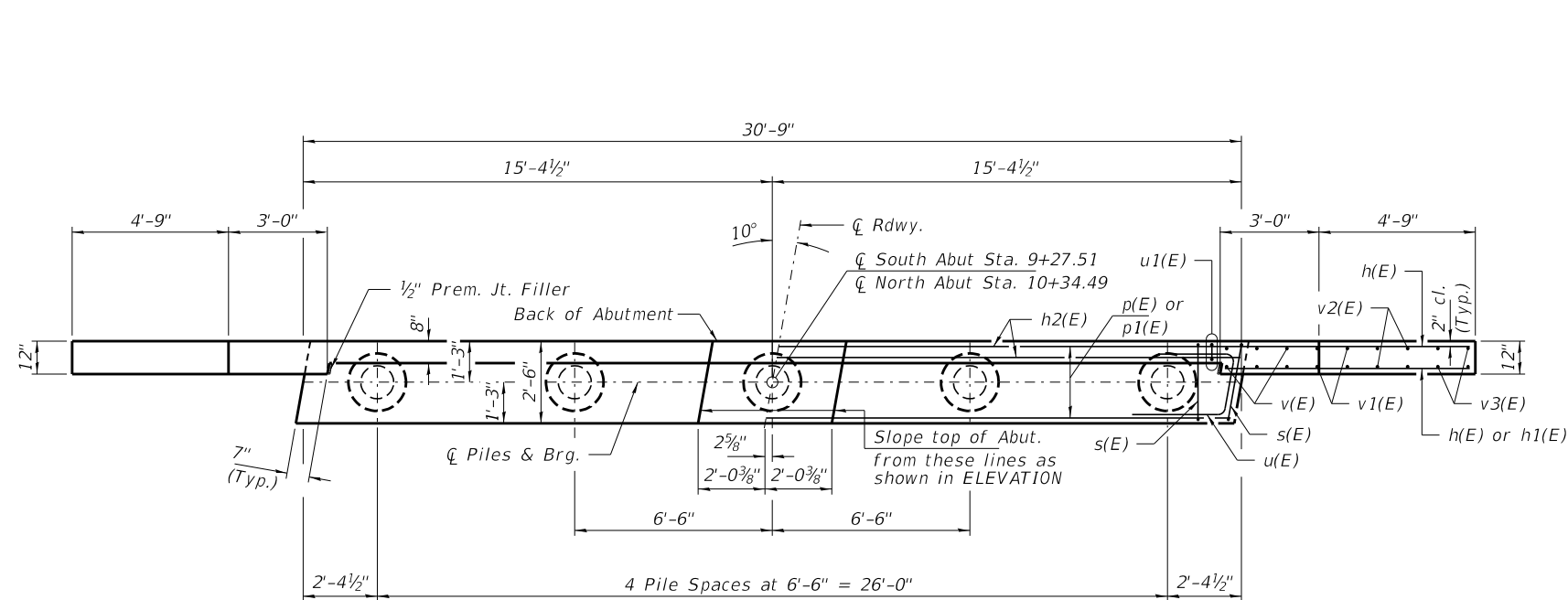
T = Total movement at expansion joint as shown on the design plans.

Notes:
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type 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 1/2" to accommodate the top reinforcement bar placement.

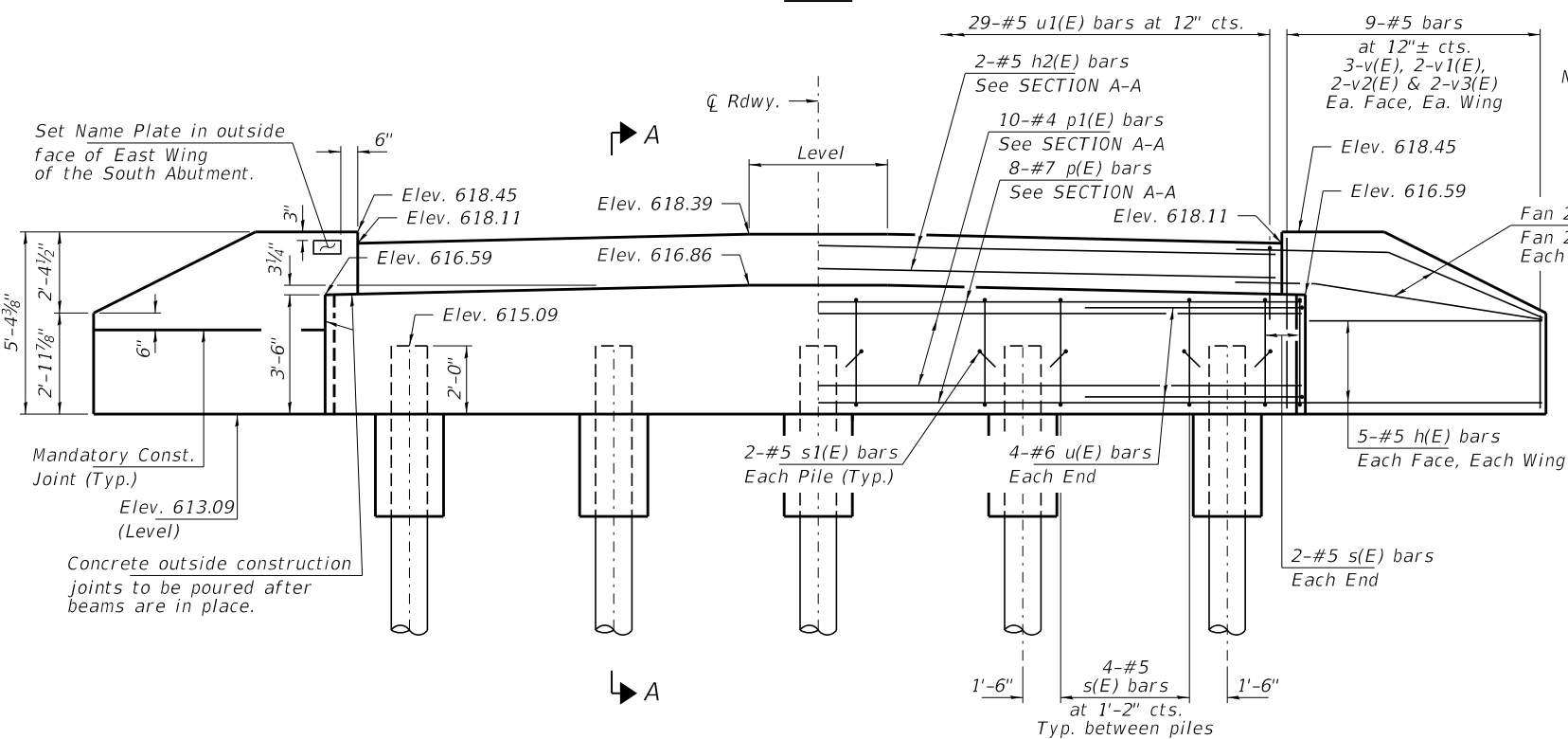
BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	215

R-34HMAWS 2-17-2017 (6'-3" Maximum Post Spacing) (1 1/4" minimum to 3 1/8" maximum HMA thickness)



PLAN

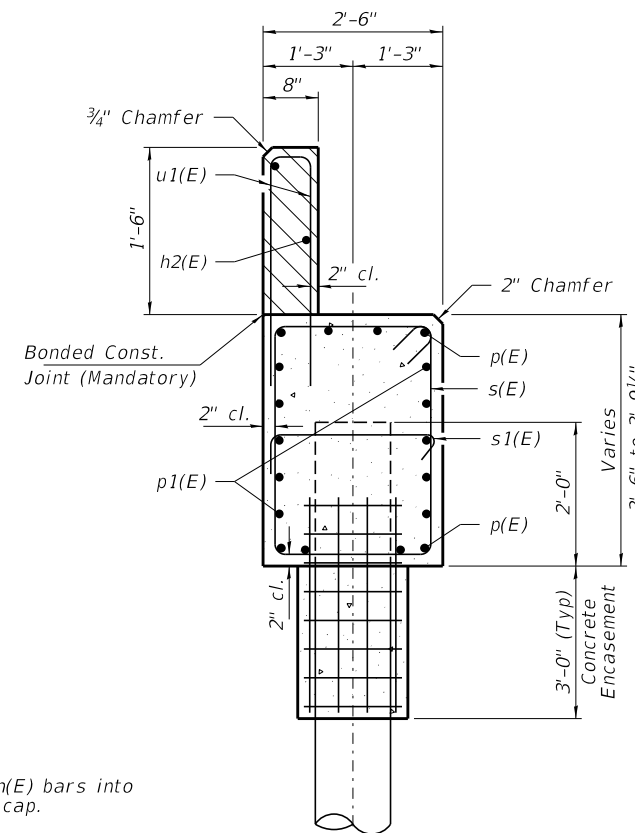


ELEVATION

PILE DATA

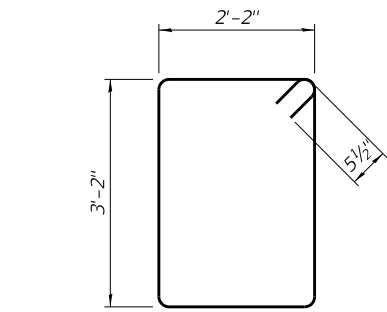
Type: Metal Shell 12"x0.250"
 Nominal Required Bearing: 215 Kips/Pile
 Factored Resistance Available: 118 Kips/Pile
 Est. Length: 60 Ft/Pile (South Abut.)
 Est. Length: 70 Ft/Pile (North Abut.)
 No. Production Piles: 9
 No. Test Piles: 1

Notes: One test pile shall be driven in a permanent location at the South Abutment.
 Pile locations may be moved along the centerline of abutment up to 18" in order to avoid conflicts with existing substructure units.

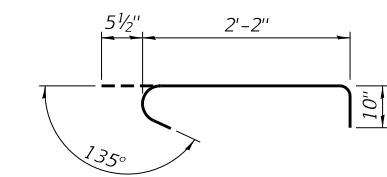


SECTION A-A

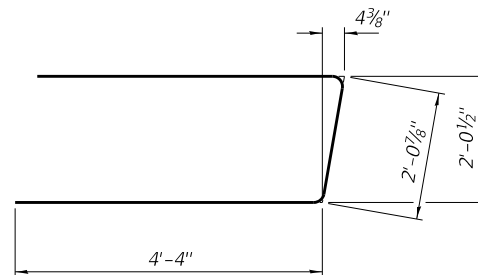
Hatched area to be poured after beams are in place.



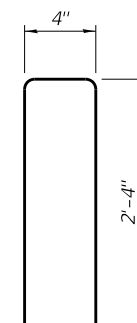
BAR s(E)



BAR s1(E)



BAR u(E)



BAR u1(E)

BILL OF MATERIAL - 2 ABUTS.

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	48	#5	10'-0"	—
h1(E)	8	#5	8'-6"	—
h2(E)	4	#5	30'-5"	—
p(E)	16	#7	30'-5"	—
p1(E)	20	#4	30'-5"	—
s(E)	40	#5	11'-7"	□
s1(E)	20	#5	3'-6"	U
u(E)	16	#6	10'-9"	U
u1(E)	58	#5	5'-0"	U
v(E)	24	#5	5'-0"	—
v1(E)	16	#5	4'-6"	—
v2(E)	16	#5	3'-7"	—
v3(E)	16	#5	2'-8"	—
Concrete Structures			Cu. Yd.	28.6
Concrete Encasement			Cu. Yd.	4.2
Reinf. Bars, Epoxy Coated			Pound	3,520
Metal Shell Piles 12"x0.250"			Foot	590
Test Pile Metal Shells			Each	1
Name Plates			Each	1

FILE NAME = 200002-shi-bldge.dgn	USER NAME = rtholck	DESIGNED - J.R.B.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -
PLOT DATE = 11/11/2021		DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

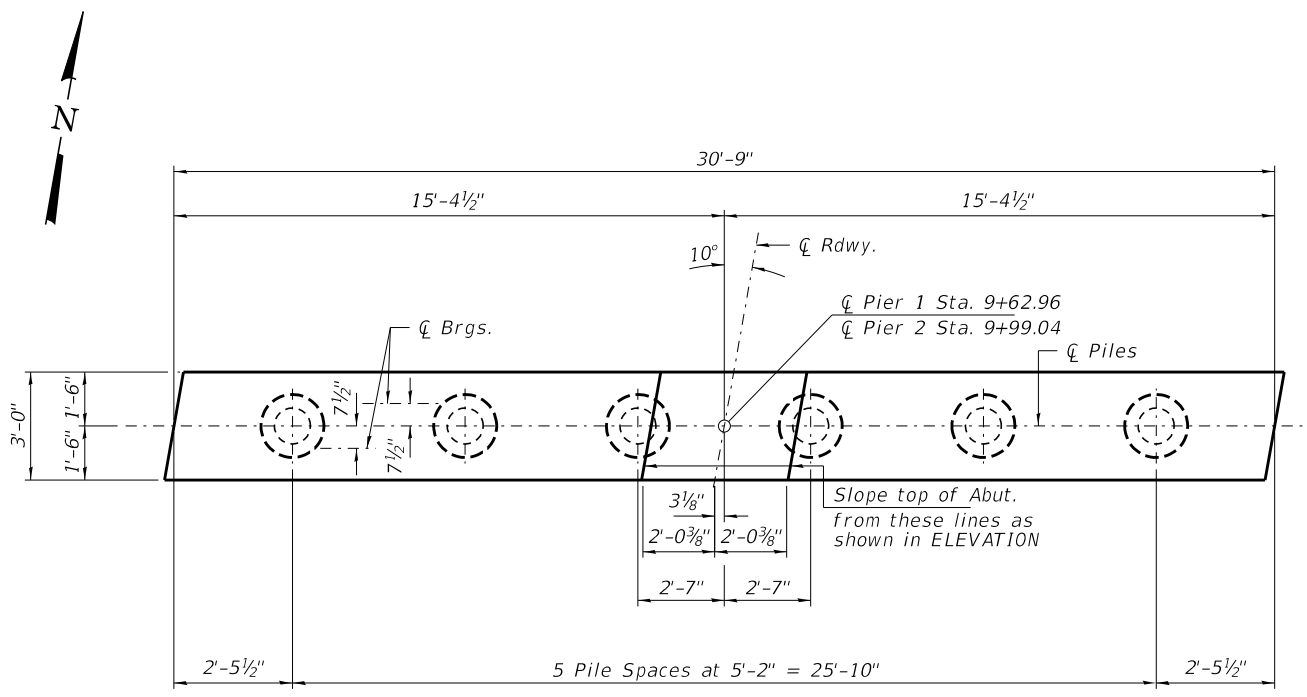
**STATE OF ILLINOIS
 SHELBY COUNTY HIGHWAY DEPARTMENT**

**ABUTMENTS
 STRUCTURE NO. 087-3597**

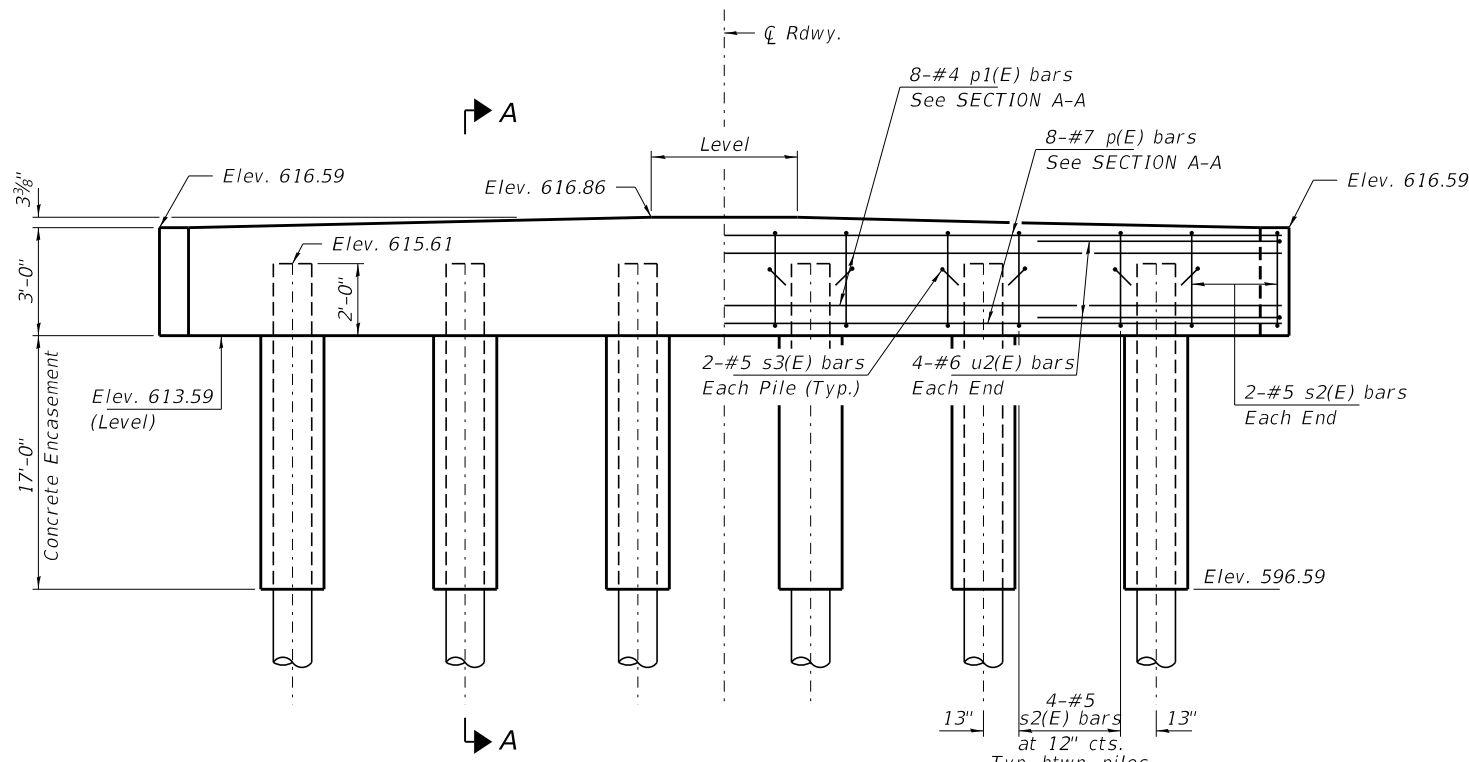
SHEET NO. 7 OF 11 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	18-00287-00-BR	SHELBY	35	14
WESTERVELT ROAD		CONTRACT NO. 95907		

ILLINOIS FED. AID PROJECT 7CRW(135)



PLAN

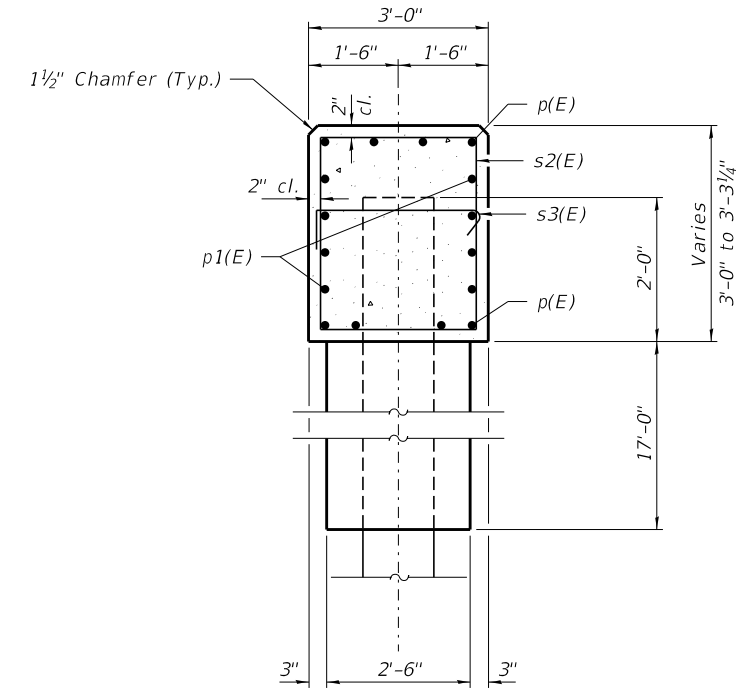


ELEVATION
(Looking North)

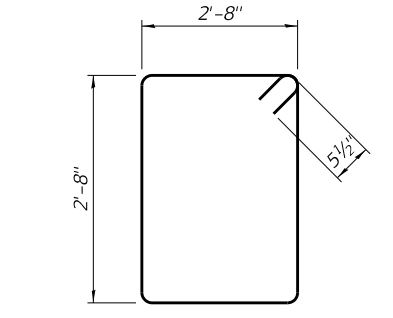
PILE DATA

Type: Metal Shell 12"x0.250"
 Nominal Required Bearing: 275 Kips/Pile
 Factored Resistance Available: 151 Kips/Pile
 Est. Length: 80 Ft/Pile (Pier 1)
 Est. Length: 80 Ft/Pile (Pier 2)
 No. Production Piles: 11
 No. Test Piles: 1

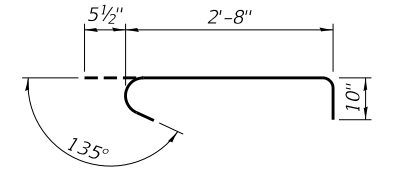
Notes: One test pile shall be driven in a permanent location at Pier 2.
 Pile locations may be moved along the centerline of abutment up to 18" in order to avoid conflicts with existing substructure units.



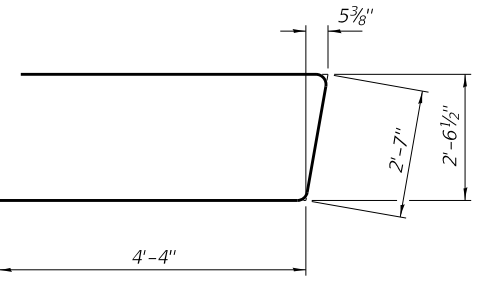
SECTION A-A



BAR s2(E)



BAR s3(E)



BAR u2(E)

BILL OF MATERIAL - 2 PIERS

BAR	NO.	SIZE	LENGTH	SHAPE
p(E)	16	#7	30'-5"	—
p1(E)	16	#4	30'-5"	—
s2(E)	48	#5	11'-7"	□
s3(E)	24	#5	4'-0"	┌
u2(E)	16	#6	11'-3"	┌
Concrete Structures			Cu. Yd.	21.6
Concrete Encasement			Cu. Yd.	31.2
Reinf. Bars, Epoxy Coated			Pound	2,270
Metal Shell Piles 12"x0.250"			Foot	880
Test Pile Metal Shells			Each	1

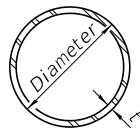
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 USER NAME = rthosck
 HAMPSON, LENZINI AND RENWICK, INC.
 3035 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000959

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

STATE OF ILLINOIS
SHELBY COUNTY HIGHWAY DEPARTMENT

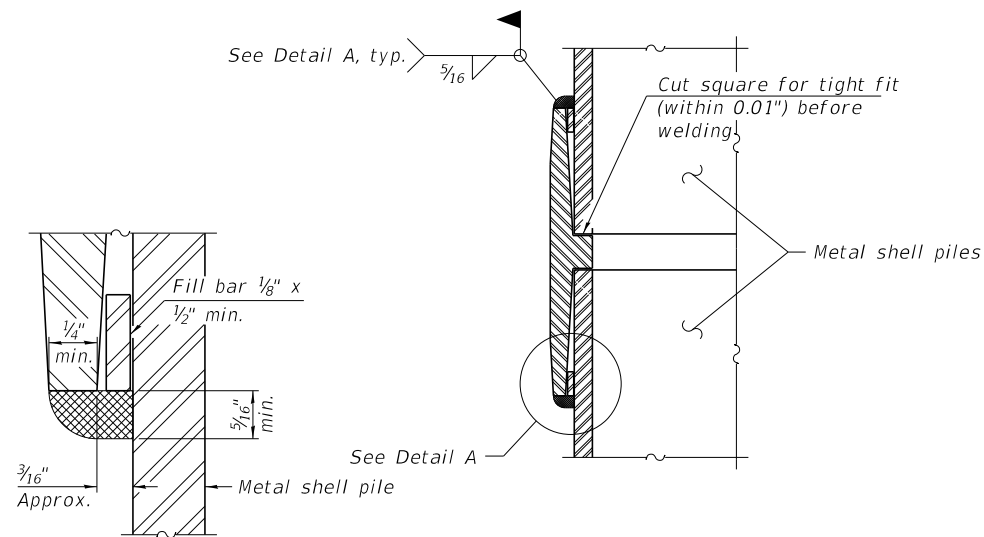
PIERS
STRUCTURE NO. 087-3597
 SHEET NO. 8 OF 11 SHEETS

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	18-00287-00-BR	SHELBY	35	15
WESTERVELT ROAD		CONTRACT NO. 95907		
ILLINOIS		FED. AID PROJECT 7CRW(135)		

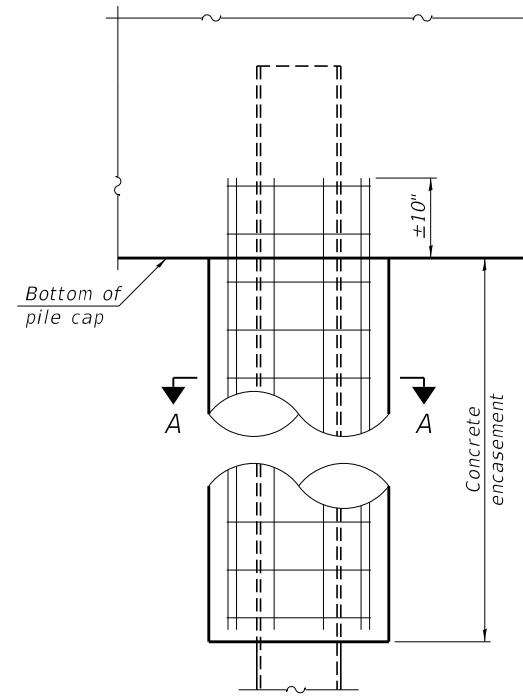


METAL SHELL PILE TABLE

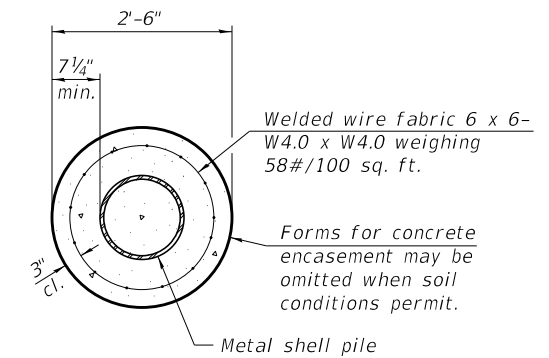
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A

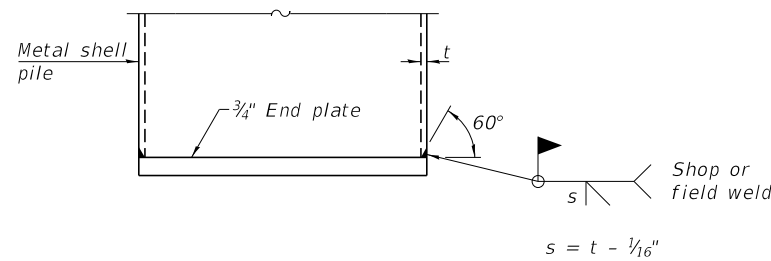


ELEVATION



SECTION A-A

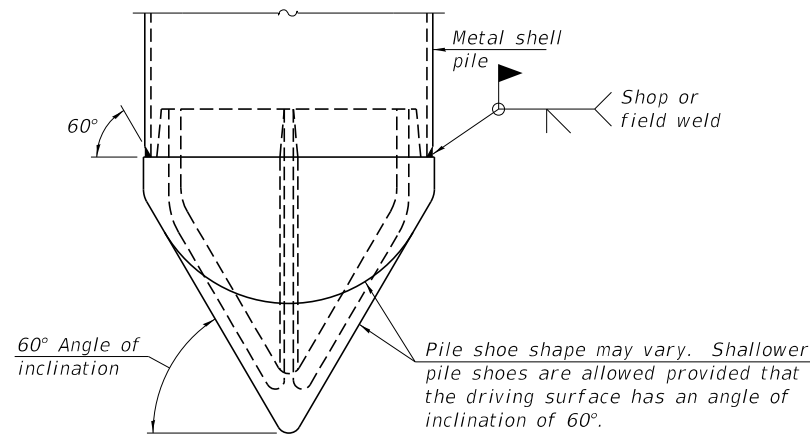
INDIVIDUAL PILE CONCRETE ENCASEMENT
(When specified)



END PLATE ATTACHMENT

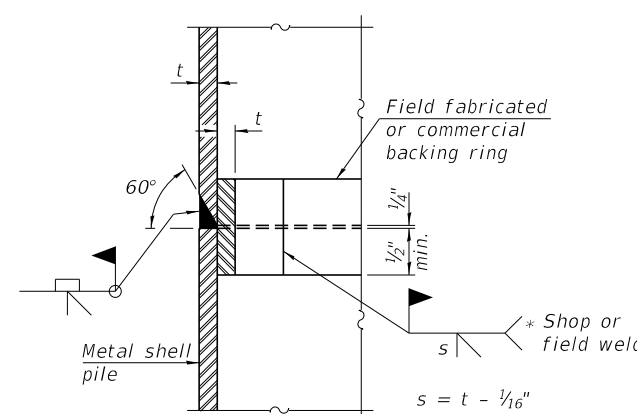
WELDED COMMERCIAL SPLICE

Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



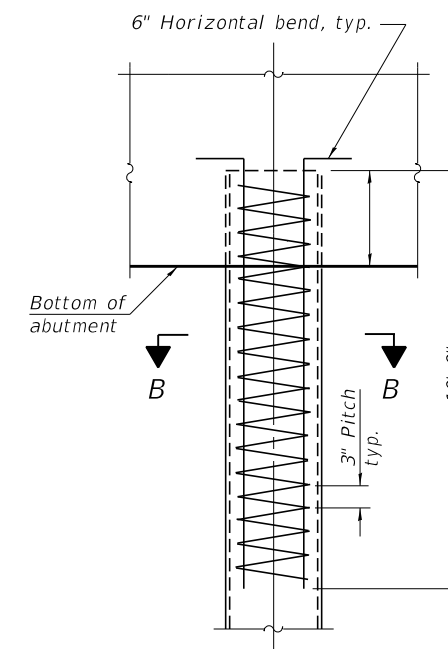
PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

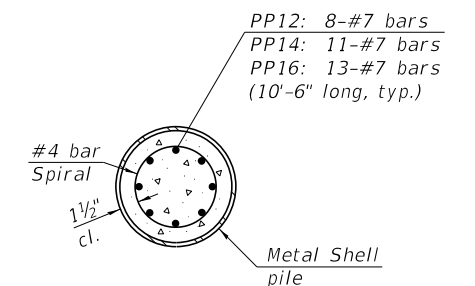


COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

REINFORCEMENT AT ABUTMENTS
(Omit when concrete encasement is specified)

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 1-1-2020

FILE NAME = 200002-shi-bridge.dgn	USER NAME = rthosck	DESIGNED - J.R.B.	REVISED -	STATE OF ILLINOIS SHELBY COUNTY HIGHWAY DEPARTMENT	METAL SHELL PILE DETAILS STRUCTURE NO. 087-3597	C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -			41	18-00287-00-BR	SHELBY	35	16
PLOT DATE = 11/11/2021	DRAWN - R.D.H.	CHECKED - S.W.M.	REVISED -			WESTERVELT ROAD		CONTRACT NO. 95907		
						SHEET NO. 9 OF 11 SHEETS		ILLINOIS FED. AID PROJECT 7CRW(135)		

HOLCOMB FOUNDATION ENGINEERING INC.
 393 Wood Road 618-529-5262
 Carbondale, IL 62901 618-457-8991 fax Page 1 of 3

Bridge Foundation Boring Log

Project: H-17251 Bridge CH 41 over Robinson Creek Date: 11/2/2017
 Section: 16-00283-00-BR Station _____ Bored by: B. Schwartz
 Structure: 087-3016 Checked By: I. Holcomb
 County: Shelby

Boring No. 1	Station	Offset	Elevation	N	Qu	tsf	w %	Surface Water Elev.	Ground Water Elev.	During Drilling	Upon Completion	Elevation	N	Qu	tsf	w %	
																	Ground Water Elev.
Ground Surface 199.7 0									sand (continued) 602.85								
4" A-3 Surface over 12" Crushed Stone and Clay 617.85																	
Gray Silty CLAY (A-6) with pebbles and sand lenses 9 1.78 18									6 -- 14								
11 2.78 19									15 -- 10								
193.7																	
Gray Silty CLAY (A-6) with trace sand 611.85 4 0.55 29									12 -- 20								
9 2.58 21																	
187.2									166.2								
Gray Clayey SAND (A-2-4) 605.35 6 2.58 21									Gray Sandy CLAY (A-6) 584.35 6 0.98 15								
183.7																	
Gray Medium SAND (A-2-4) 601.85 2 -- 19									6 0.98 16								
3 -- 18																	
4 -- 21																	

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
 Qu-Unconfined Compressive Strength in tons/sq.ft. w-Water Content-percentage of oven dry weight-%
 B = Bulge Failure S = Shear Failure E = Estimated Value P = Penetrometer

HOLCOMB FOUNDATION ENGINEERING INC.
 393 Wood Road 618-529-5262
 Carbondale, IL 62901 618-457-8991 fax Page 2 of 3

Bridge Foundation Boring Log

Project: H-17251 Bridge CH 41 over Robinson Creek Date: 11/2/2017
 Section: 16-00283-00-BR Station _____ Bored by: B. Schwartz
 Structure: 087-3016 Checked By: I. Holcomb
 County: Shelby

Boring No. 1	Station	Offset	Elevation	N	Qu	tsf	w %	Surface Water Elev.	Ground Water Elev.	During Drilling	Upon Completion	Elevation	N	Qu	tsf	w %	
																	Ground Water Elev.
sandy clay (continued) 45 10 1.28 14									clay (continued) 602.85								
									130.2								
									14 0.78 16								
									Gray Fine to Medium SAND (A-2-4) with gravel 548.35								
									126.2								
									13 1.28 16								
									126.2								
									Gray Sandy CLAY (A-6) with sand and gravel lenses 544.35								
									17 0.38 16								
									1 0.78 16								
									121.2								
									Gray Medium SAND (A-2-4) 539.35								
									15 -- 14								
									141.2								
									Gray Silty CLAY (A-6) with pebbles 559.35								
									9 0.88 16								
									7 0.88 16								
									111.2								
									Gray Fine SAND (A-2-4) 529.35								

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
 Qu-Unconfined Compressive Strength in tons/sq.ft. w-Water Content-percentage of oven dry weight-%
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HOLCOMB FOUNDATION ENGINEERING INC.
 393 Wood Road 618-529-5262
 Carbondale, IL 62901 618-457-8991 fax Page 3 of 3

Bridge Foundation Boring Log

Project: H-17251 Bridge CH 41 over Robinson Creek Date: 11/2/2017
 Section: 16-00283-00-BR Station _____ Bored by: B. Schwartz
 Structure: 087-3016 Checked By: I. Holcomb
 County: Shelby

Boring No. 1	Station	Offset	Elevation	N	Qu	tsf	w %	Surface Water Elev.	Ground Water Elev.	During Drilling	Upon Completion	Elevation	N	Qu	tsf	w %	
																	Ground Water Elev.
sand (continued) -90 39 -- 22									sand (continued) 602.85								
									86.2 504.35								
									Gray Weath. SHALE 85.7 503.85								
									Gray Dense Medium SAND (A-2-4) with coal fragments -115 58 2.68 18								
									79.7 -120 100 / 2' 0.75 13								
									End of Boring @ -120.0' 497.85								
									10 -- 22								
									-125								
									-130								
									30 -- 16								
									-110								

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
 Qu-Unconfined Compressive Strength in tons/sq.ft. w-Water Content-percentage of oven dry weight-%
 B = Bulge Failure S = Shear Failure E = Estimated Value P = Penetrometer

BORING-1

HOLCOMB FOUNDATION ENGINEERING INC.
 393 Wood Road 618-529-5262
 Carbondale, IL 62901 618-457-8991 fax Page 1 of 3

Bridge Foundation Boring Log

Project: H-17251 Bridge CH 41 over Robinson Creek Date: 11/3/2017
 Section: 16-00283-00-BR Station _____ Bored by: B. Schwartz
 Structure: 087-3016 Checked By: T. Holcomb
 County: Shelby

Boring No. 2	Station	Offset	Surface Water Elev.			Ground Water Elev.		
			N	Qu	w	N	Qu	w
Ground Surface	199.9	0				603.55		
5" A-3 Surface over 9" Crushed Stone	618.05					185.4		
Gray Sandy CLAY (A-6) with sand/gravel lenses			14	2.65	18			
			13	2.65	9			
			4	1.45	20			
			4	0.95	20			
			4	--	21			
Brown Fine to Medium SAND (A-2-4)	185.4		8	0.15	20			
	603.55		12	--	15			
Gray Silty CLAY (A-6) with pebbles	181.4		13	3.88	13			
	599.55		12	2.48	14			

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
 Qu - Unconfined Compressive Strength in tons/sq.ft.
 w - Water Content - percentage of oven dry weight - %
 B = Bulge Failure
 S = Shear Failure
 E = Estimated Value
 P = Penetrometer

HOLCOMB FOUNDATION ENGINEERING INC.
 393 Wood Road 618-529-5262
 Carbondale, IL 62901 618-457-8991 fax Page 2 of 3

Bridge Foundation Boring Log

Project: H-17251 Bridge CH 41 over Robinson Creek Date: 11/3/2017
 Section: 16-00283-00-BR Station _____ Bored by: B. Schwartz
 Structure: 087-3016 Checked By: T. Holcomb
 County: Shelby

Boring No. 2	Station	Offset	Surface Water Elev.			Ground Water Elev.		
			N	Qu	w	N	Qu	w
sandy clay (continued)			45	14	--			
						603.55		
						185.4		
						183.9		
						602.05		
Gray Silty CLAY (A-6) with pebbles	151.4		10	0.98	16			
	569.55							
Gray SAND and GRAVEL (A-2-4)	126.4		21	--	7			
	544.55		9	0.98	16			
			7	--	--			
			7	0.98	15			

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
 Qu - Unconfined Compressive Strength in tons/sq.ft.
 w - Water Content - percentage of oven dry weight - %
 B = Bulge Failure
 S = Shear Failure
 E = Estimated Value
 P = Penetrometer

HOLCOMB FOUNDATION ENGINEERING INC.
 393 Wood Road 618-529-5262
 Carbondale, IL 62901 618-457-8991 fax Page 3 of 3

Bridge Foundation Boring Log

Project: H-17251 Bridge CH 41 over Robinson Creek Date: 11/3/2017
 Section: 16-00283-00-BR Station _____ Bored by: B. Schwartz
 Structure: 087-3016 Checked By: T. Holcomb
 County: Shelby

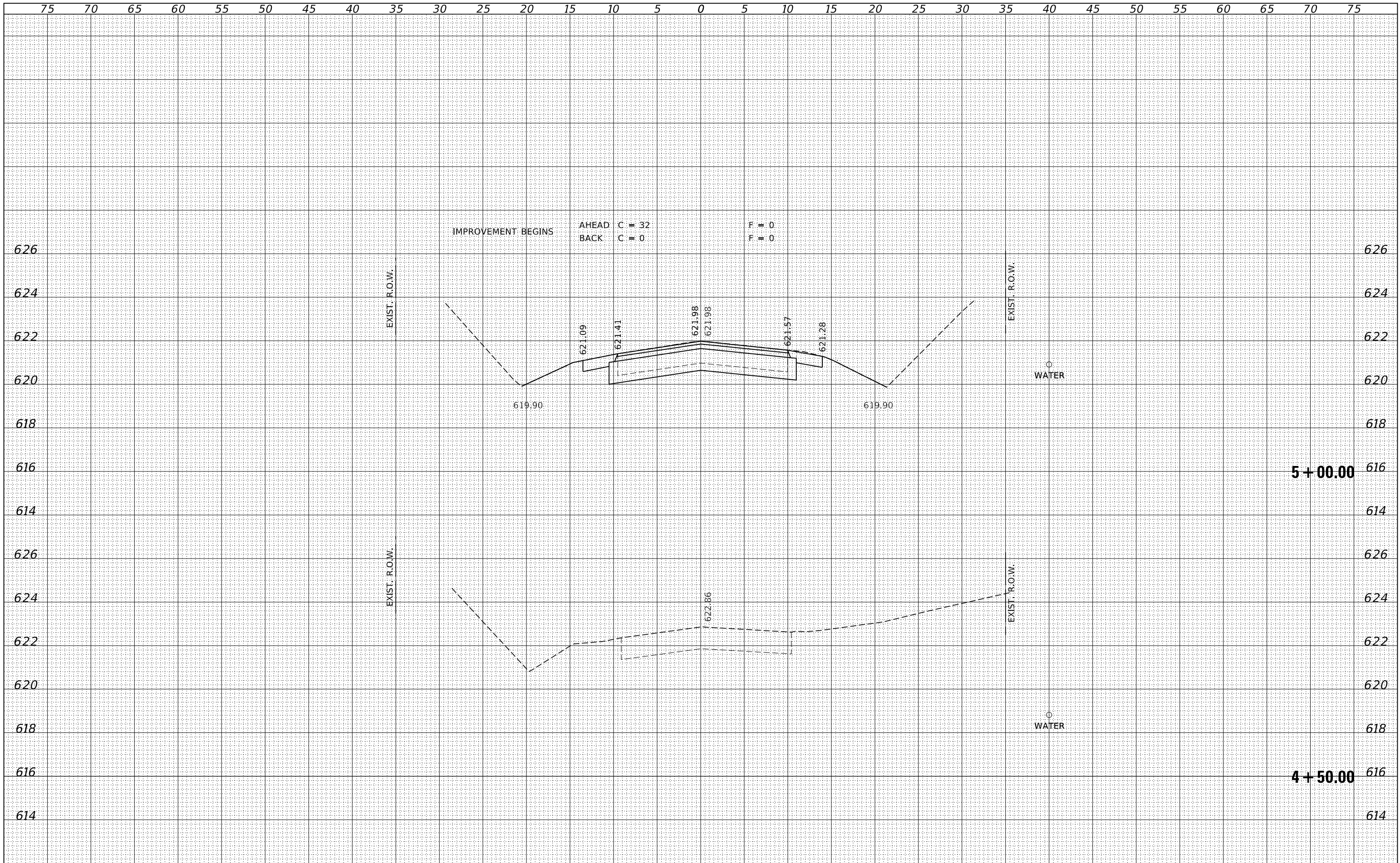
Boring No. 2	Station	Offset	Surface Water Elev.			Ground Water Elev.		
			N	Qu	w	N	Qu	w
sand (continued)			90	24	--			
						603.55		
						185.4		
						183.9		
						602.05		
End of Boring @ -100.0'	99.9		32	--	19			
	518.05							

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
 Qu - Unconfined Compressive Strength in tons/sq.ft.
 w - Water Content - percentage of oven dry weight - %
 B = Bulge Failure
 S = Shear Failure
 E = Estimated Value
 P = Penetrometer

BORING-2

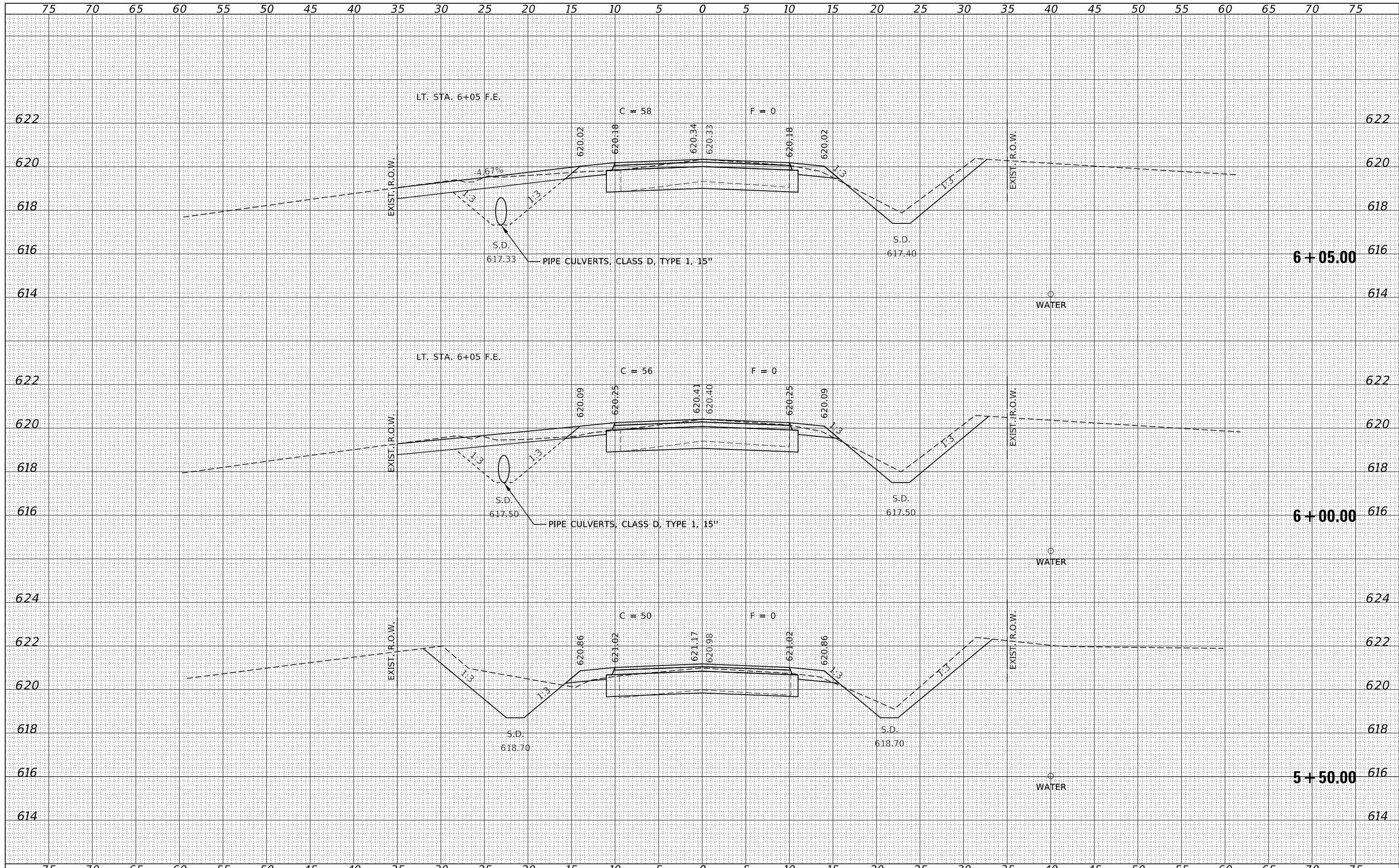
BY	DATE

BY	DATE



DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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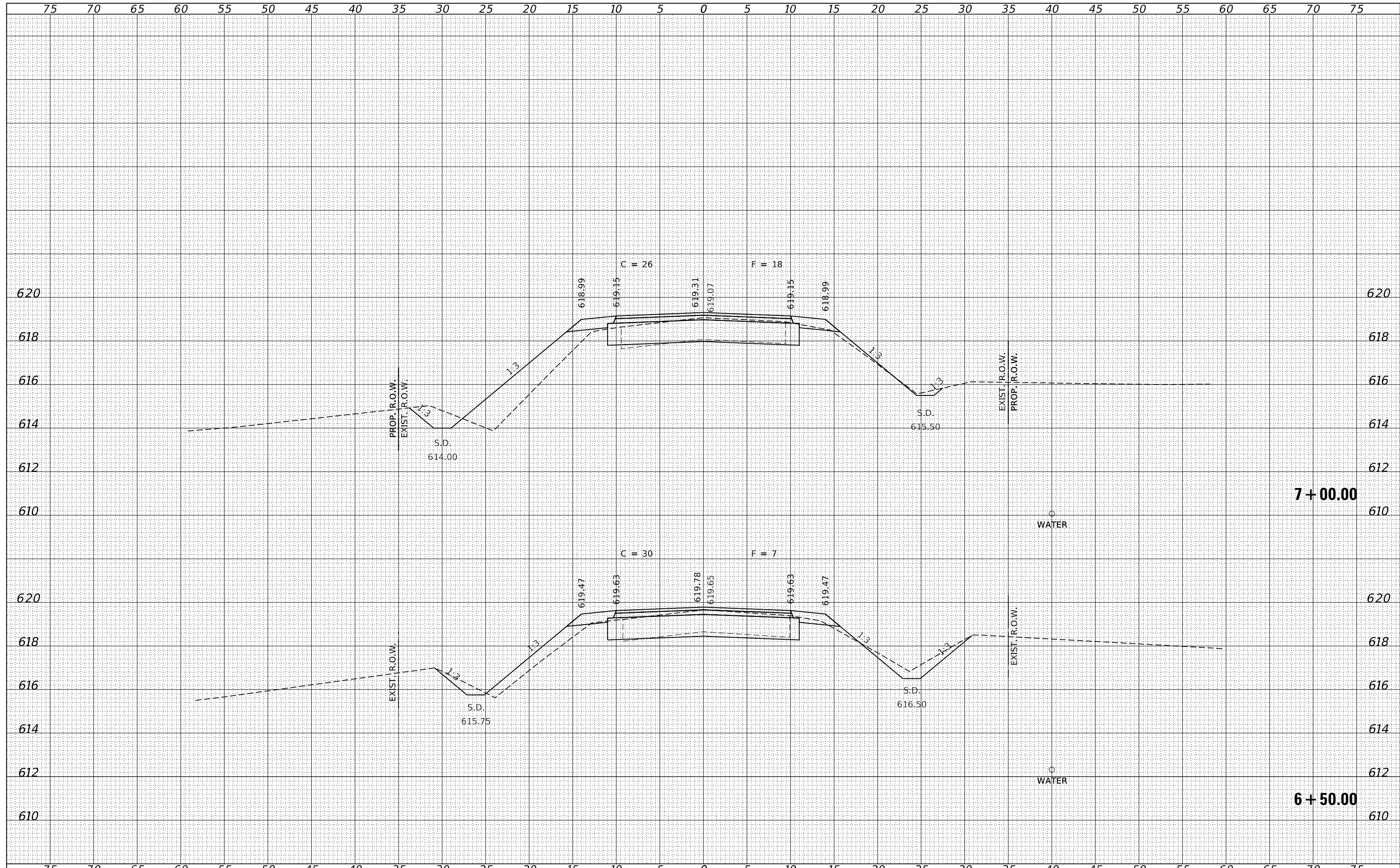
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BY	
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.009958	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISED -		41	18-000287-00-BR	SHELBY	35	20			
PLOT DATE = 11/11/2021	CHECKED - S.W.M.	REVISED -	SCALE: 5H:2V		SHEET NO. 2 OF 17 SHEETS	STA. 5+50.00 TO STA. 6+05.00	CONTRACT NO. 95907		ILLINOIS FED. AID PROJECT 7CRW(135)			
DATE - 11/11/2021	REVISD -											

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

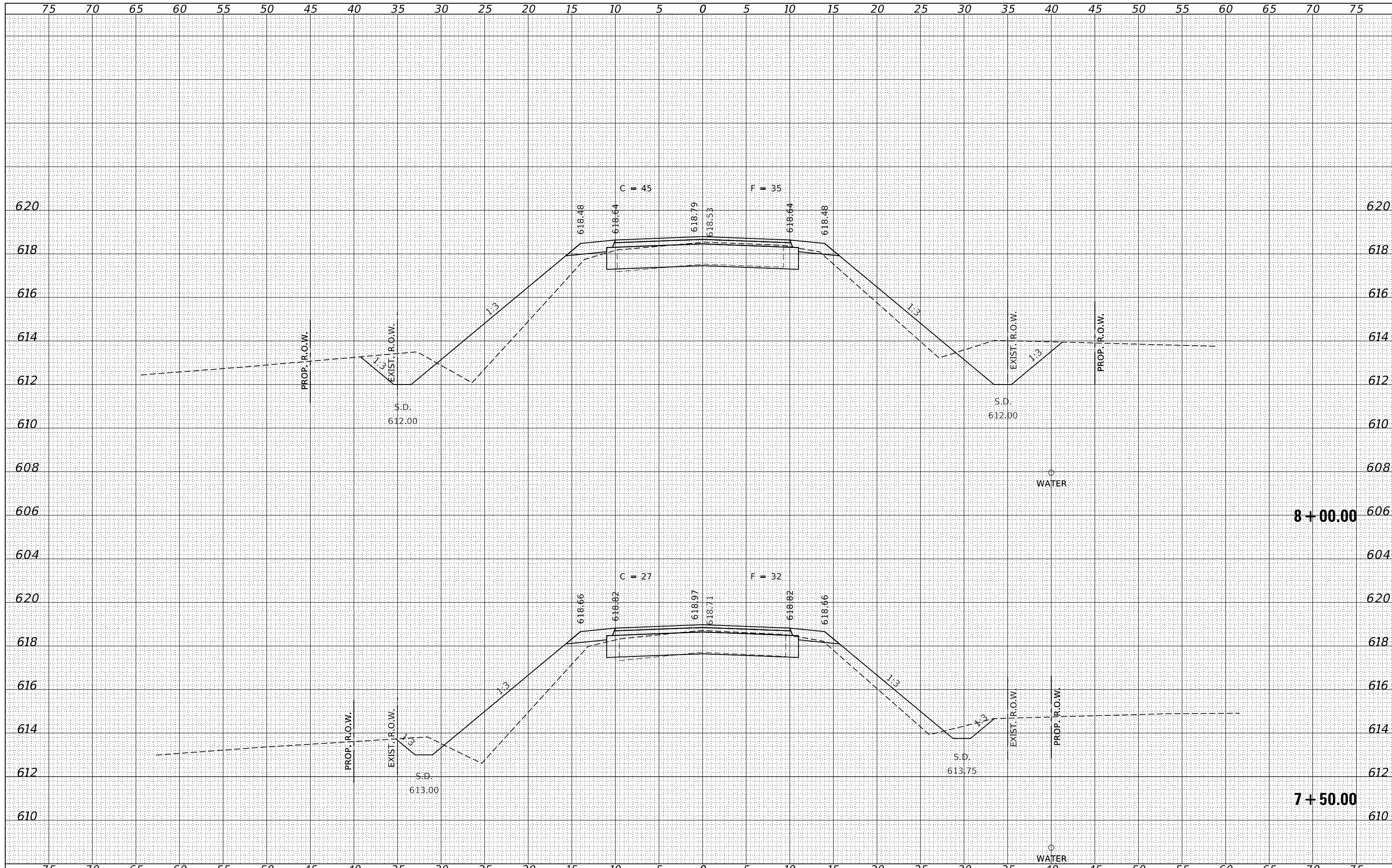
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BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME = 200002-shl-xssheets.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REVISED -	<p align="center">STATE OF ILLINOIS SHELBY COUNTY HIGHWAY DEPARTMENT</p> <p align="center">STATION CROSS SECTIONS</p>	C.H.	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 -		41	18-000287-00-BR	SHELBY	35	21
PLOT DATE = 11/11/2021	CHECKED - S.W.M.	REVISIED -	SCALE: 5H:2V		WESTERVELT ROAD		CONTRACT NO. 95907		
	DATE - 11/11/2021	REVISED -	SHEET NO. 3 OF 17 SHEETS		STA. 6+50.00 TO STA. 7+00.00		ILLINOIS FED. AID PROJECT 7CRW(135)		

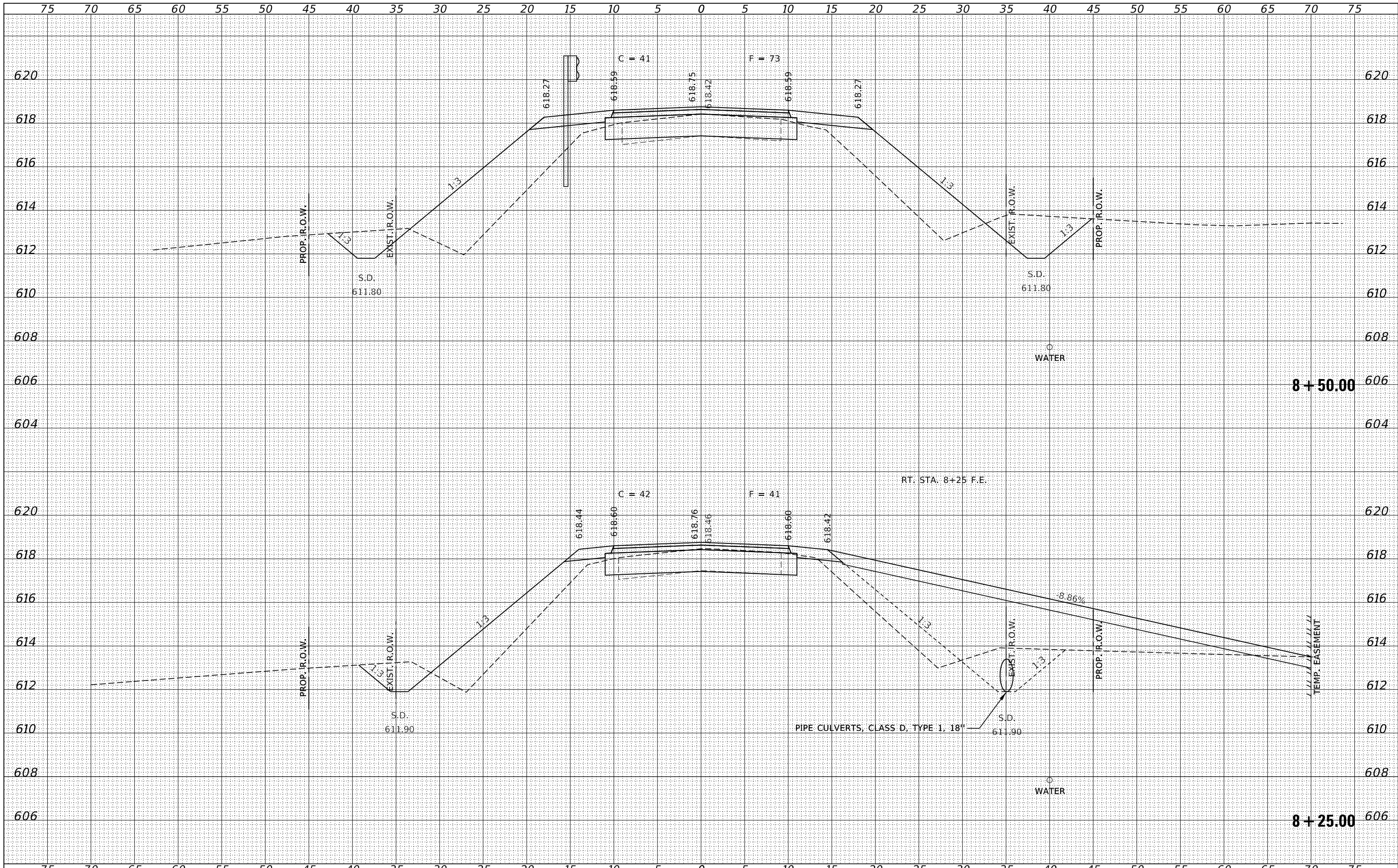
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ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	TEMPLATE	
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	AREAS CHECKED	



BY	DATE
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TEMPLATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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FILE NAME = 200002-shl-xssheets.dgn
 HAMPSON, LENZINI AND RENWICK, INC.
 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LICENSE NO. 184-000958

USER NAME = rmosck
 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 11/11/2021
 PLOT SCALE = \$SCALE\$
 PLOT DATE = 11/11/2021

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**STATE OF ILLINOIS
 SHELBY COUNTY HIGHWAY DEPARTMENT**

STATION CROSS SECTIONS

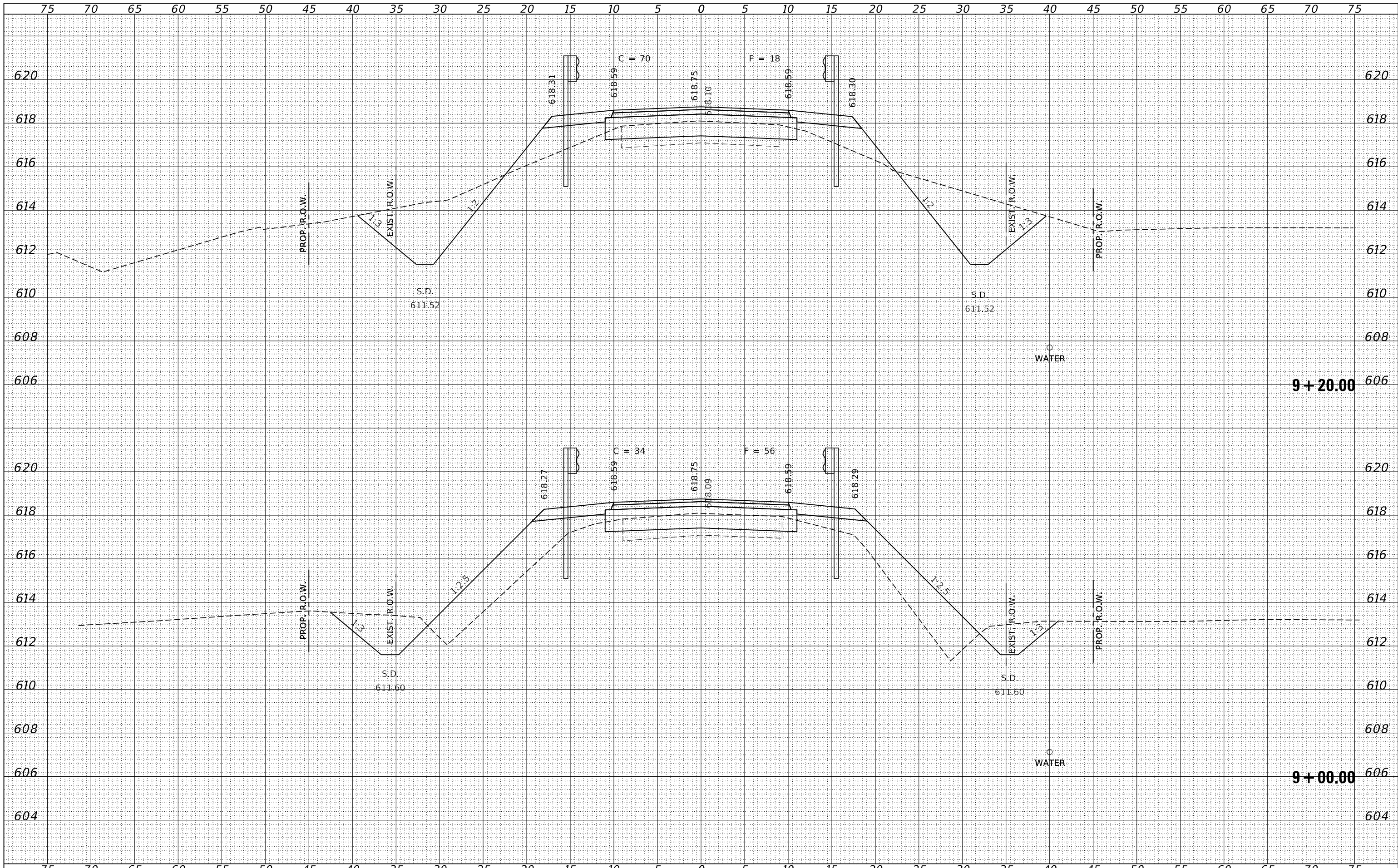
SCALE: 5H:2V SHEET NO. 5 OF 17 SHEETS STA. 8+25.00 TO STA. 8+50.00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	18-000287-00-BR	SHELBY	35	23
WESTERVELT ROAD			CONTRACT NO. 95907	

ILLINOIS FED. AID PROJECT 7CRW(135)

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



FILE NAME = 200002-shl-vssheets.dgn
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 DESIGNED - J.W.F.
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 CHECKED - S.W.M.
 DATE - 11/11/2021
 PLOT SCALE = \$SCALE\$
 PLOT DATE = 11/11/2021

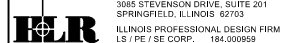
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 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 11/11/2021
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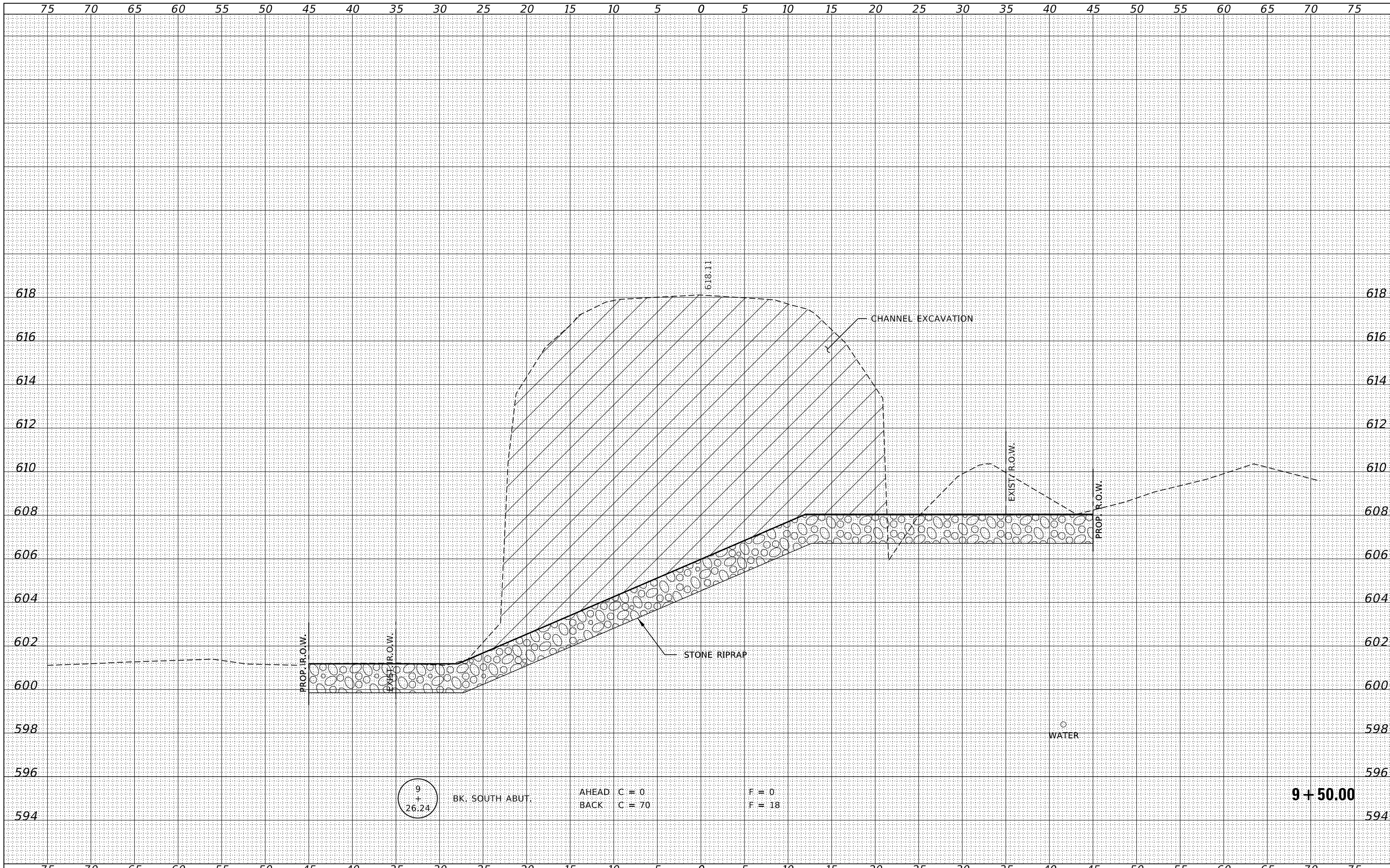
STATE OF ILLINOIS
 SHELBY COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V
 SHEET NO. 6 OF 17 SHEETS
 STA. 9+00.00 TO STA. 9+20.00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	18-000287-00-BR	SHELBY	35	24
WESTERVELT ROAD			CONTRACT NO. 95907	





DATE	BY	SURVEYED	PLOTTED
		NOTE BOOK	TEMPLATE
		AREAS CHECKED	AREAS CHECKED

DATE	BY	ORIGINAL SURVEY	PLOTTED
		NOTE BOOK	TEMPLATE
		AREAS CHECKED	AREAS CHECKED

9
+
26.24
BK. SOUTH ABUT.

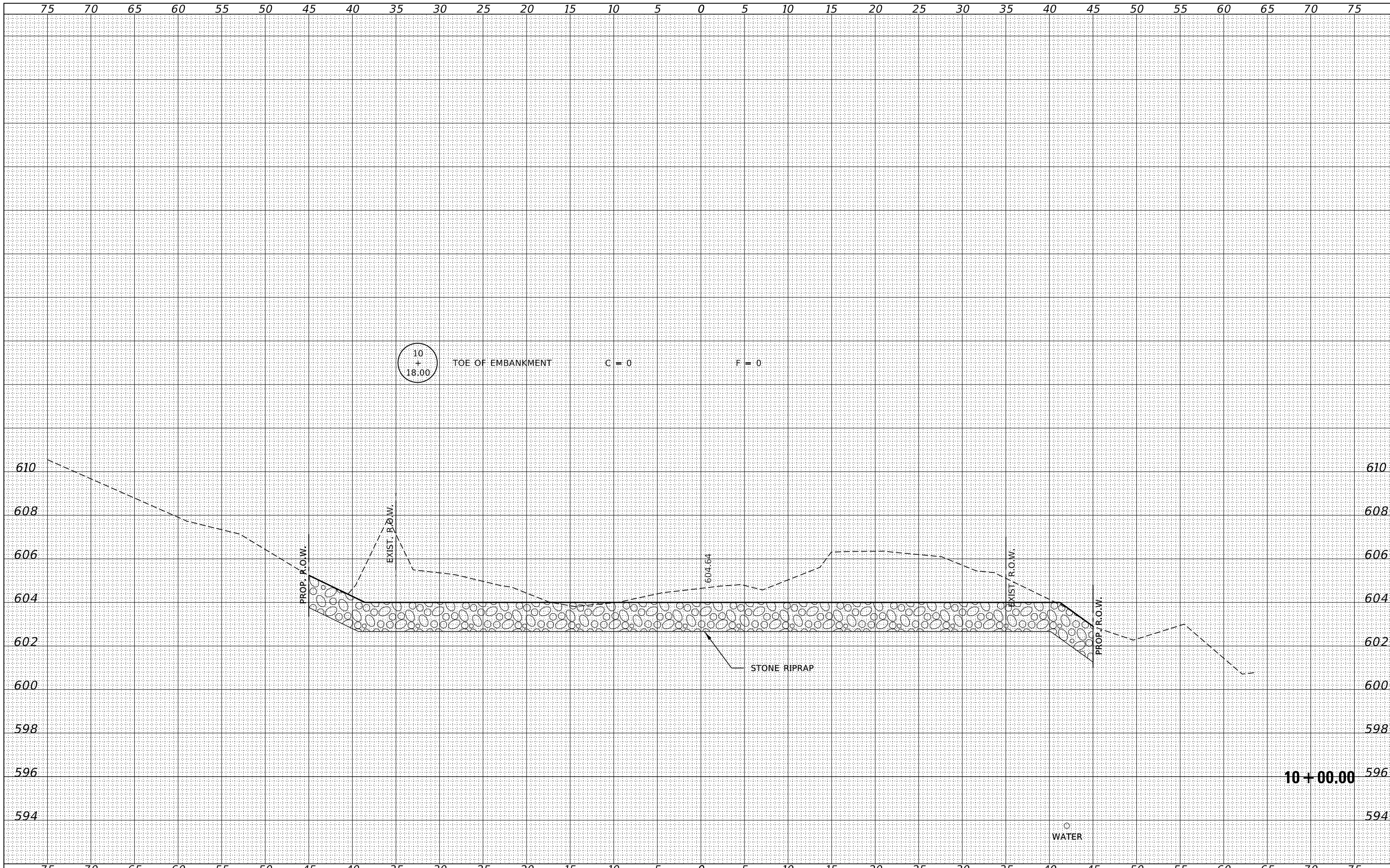
AHEAD C = 0
BACK C = 70
F = 0
F = 18

9 + 50.00

HAMPTON, LENZINI AND RENWICK, INC. <small>3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-009958</small>	FILE NAME = 200002-shl-xssheets.dgn USER NAME = rmosck PLOT SCALE = \$\$SCALE\$ PLOT DATE = 11/11/2021	DESIGNED - J.W.F. DRAWN - T.W.K. CHECKED - S.W.M. DATE - 11/11/2021	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS SHELBY COUNTY HIGHWAY DEPARTMENT				STATION CROSS SECTIONS				C.H. 41	SECTION 18-000287-00-BR	COUNTY SHELBY	TOTAL SHEETS 35	SHEET NO. 25
	SCALE: 5H:2V		SHEET NO. 7 OF 17 SHEETS		STA. 9+50.00 TO STA. 9+50.00		ILLINOIS		FED. AID PROJECT 7CRW(135)							
												CONTRACT NO. 95907				

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
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PLOTTED	
TEMPLATE	
AREAS	
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DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
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SURVEYED	
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TEMPLATE	
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FILE NAME = 200002-sh1-xssheets.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3885 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184-009958

USER NAME = rmosck
 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 11/11/2021
 PLOT SCALE = \$SCALES
 PLOT DATE = 11/11/2021

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STATE OF ILLINOIS
 SHELBY COUNTY HIGHWAY DEPARTMENT

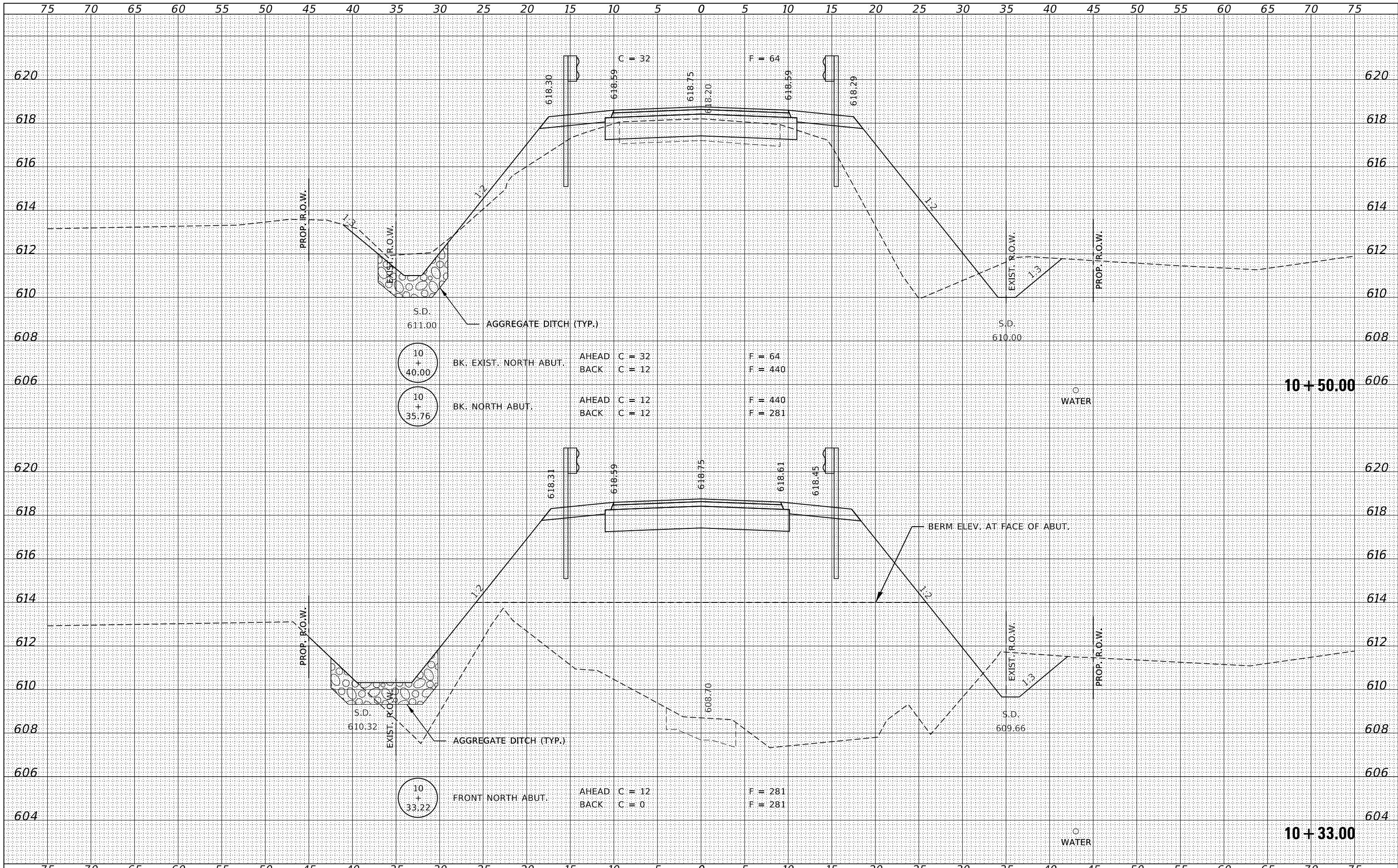
STATION CROSS SECTIONS

SCALE: 5H:2V
 SHEET NO. 8 OF 17 SHEETS
 STA. 10+00.00 TO STA. 10+00.00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	18-000287-00-BR	SHELBY	35	26
WESTERVELT ROAD			CONTRACT NO. 95907	
ILLINOIS FED. AID PROJECT 7CRW(135)				

DATE	
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SURVEYED	
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TEMPLATE	
AREAS	
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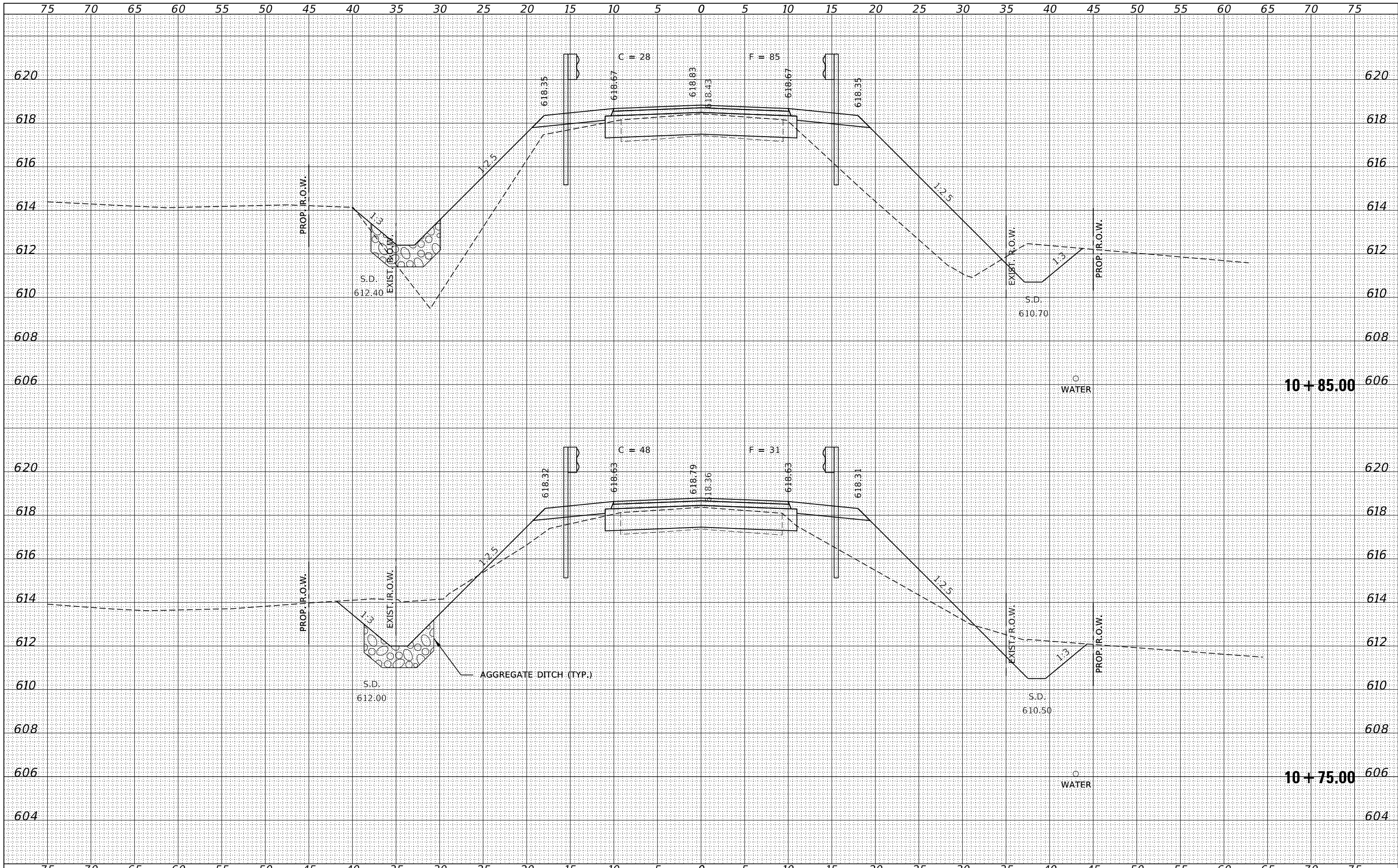
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FILE NAME = 200002-shl-xssheets.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS SHELBY COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS		C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -		41	18-000287-00-BR	SHELBY	35	27		
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 -		WESTERVELT ROAD		CONTRACT NO. 95907		ILLINOIS FED. AID PROJECT 7CRW(135)		
		DATE - 11/11/2021	REVISED -		SCALE: 5H:2V	SHEET NO. 9 OF 17 SHEETS	STA. 10+33.00 TO STA. 10+50.00				

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



FILE NAME = 200002-sh1-xssheets.dgn
 USER NAME = rmosck
 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 11/11/2021
 PLOT SCALE = \$SCALE\$
 PLOT DATE = 11/11/2021

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STATE OF ILLINOIS
 SHELBY COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

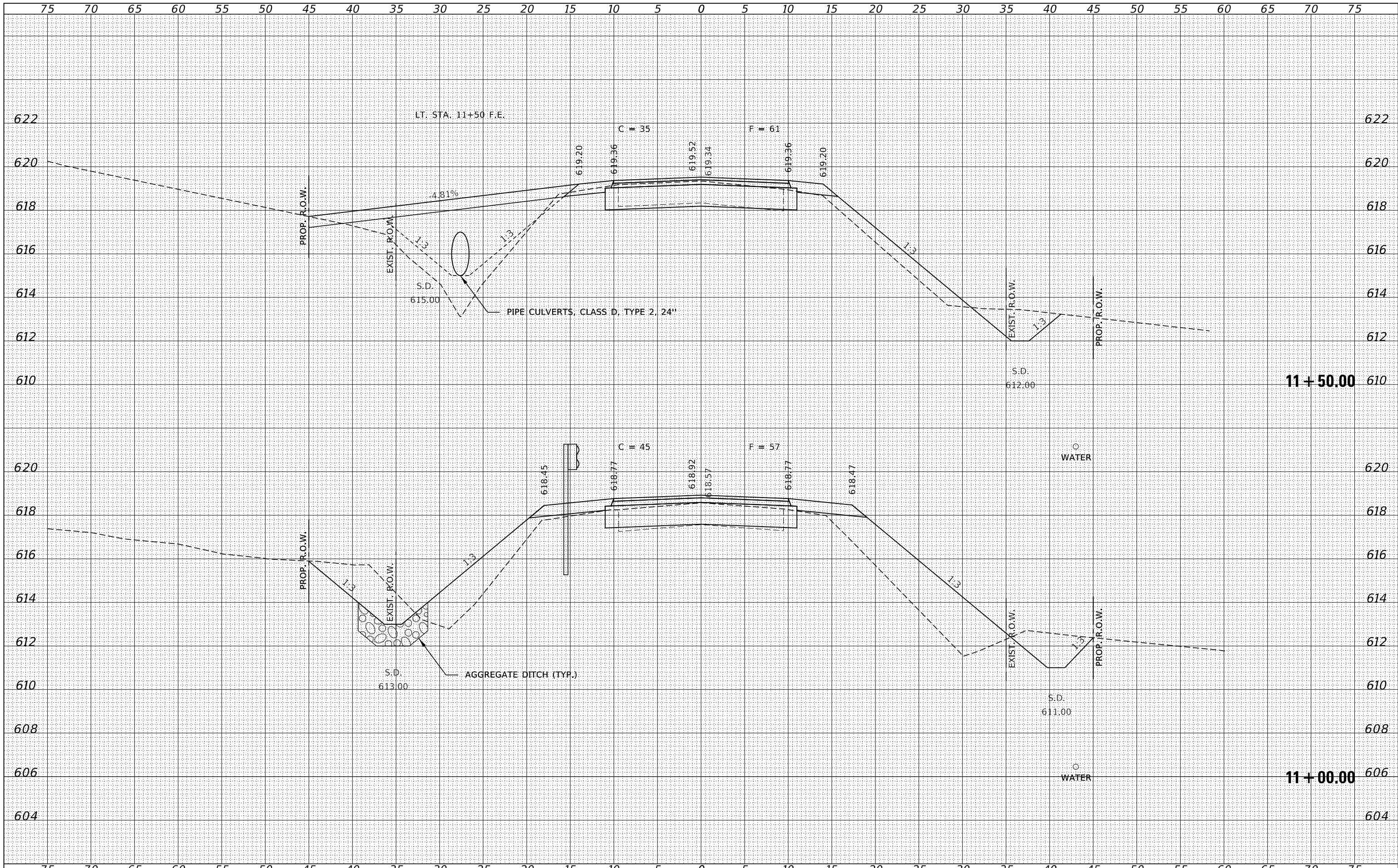
SCALE: 5H:2V SHEET NO. 10 OF 17 SHEETS STA. 10+75.00 TO STA. 10+85.00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	18-000287-00-BR	SHELBY	35	28
WESTERVELT ROAD			CONTRACT NO. 95907	

ILLINOIS FED. AID PROJECT 7CRW(135)

DATE	
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ORIGINAL SURVEY	
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TEMPLATE	
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AREAS CHECKED	
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FILE NAME = 200002-sh1-xssheets.dgn
 USER NAME = rmosck
 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 11/11/2021
 PLOT SCALE = \$SCALE\$
 PLOT DATE = 11/11/2021

REVISIONS
 REVISION NO. | DATE | DESCRIPTION
 1 | 11/11/2021 | INITIAL DESIGN
 2 | 11/11/2021 | REVISIONS

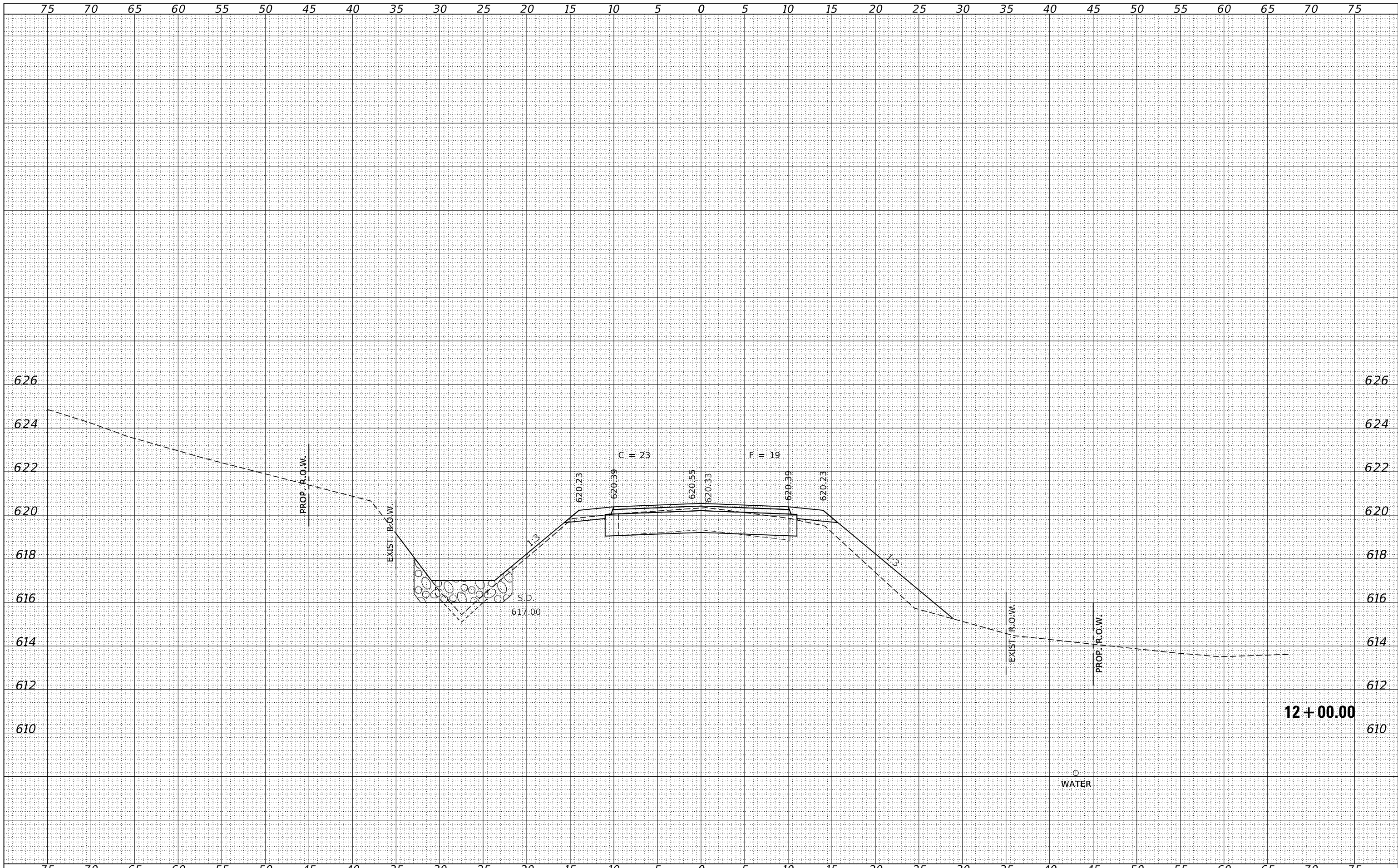
STATE OF ILLINOIS
 SHELBY COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 11 OF 17 SHEETS STA. 11+00.00 TO STA. 11+50.00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	18-000287-00-BR	SHELBY	35	29
WESTERVELT ROAD			CONTRACT NO. 95907	

ILLINOIS FED. AID PROJECT 7CRW(135)



DATE	
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME = 200002-shl-xssheets.dgn
 USER NAME = rmosck
 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 11/11/2021
 PLOT SCALE = \$SCALE\$
 PLOT DATE = 11/11/2021

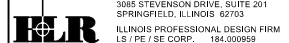
DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 11/11/2021
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**STATE OF ILLINOIS
 SHELBY COUNTY HIGHWAY DEPARTMENT**

STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 12 OF 17 SHEETS STA. 12+00.00 TO STA. 12+00.00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	18-000287-00-BR	SHELBY	35	30
WESTERVELT ROAD			CONTRACT NO. 95907	

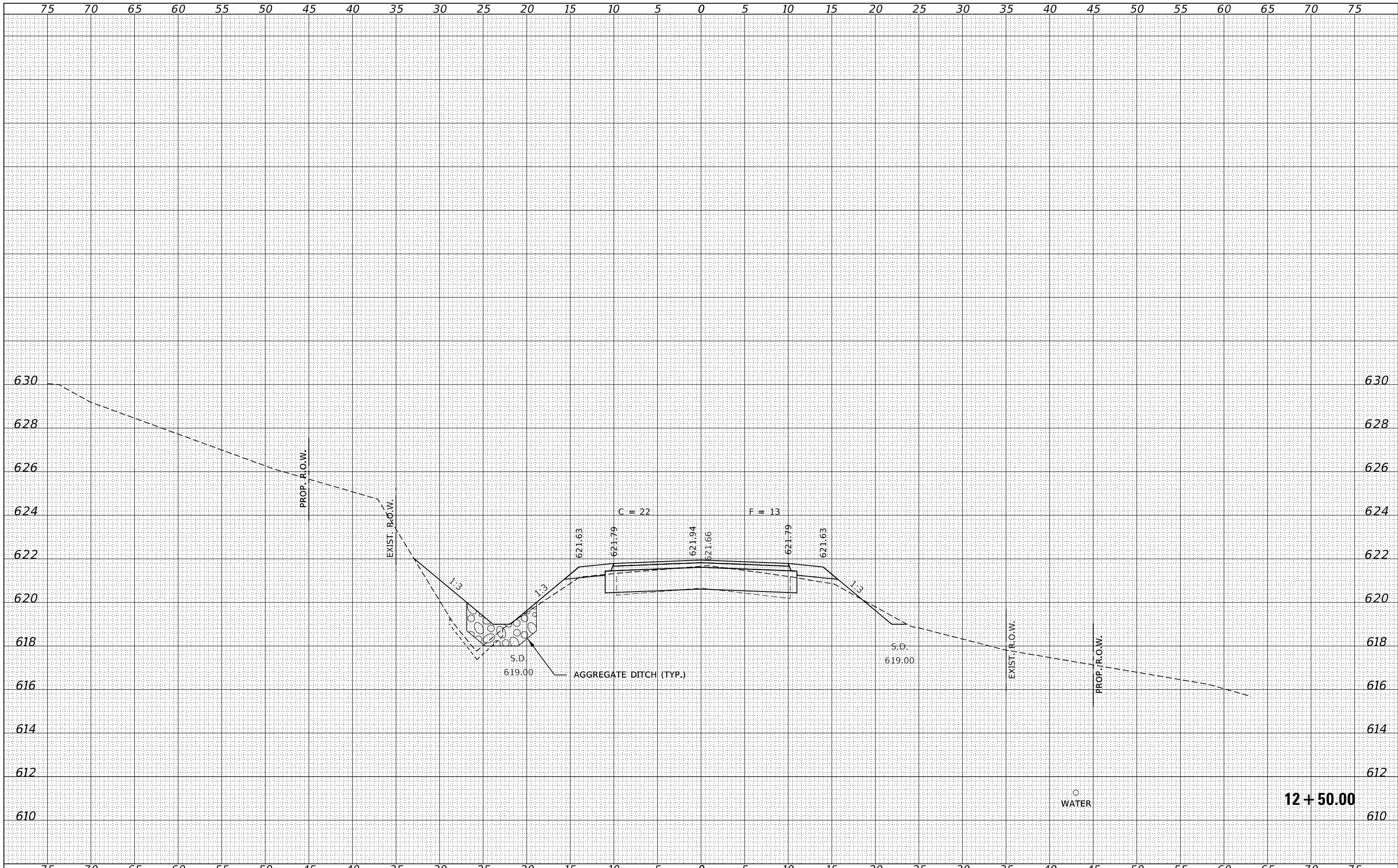


12 + 00.00

WATER

DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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FILE NAME = 200002-shl-xssheets.dgn
 USER NAME = rmosck
 DESIGNED - J.W.F.
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 CHECKED - S.W.M.
 DATE - 11/11/2021
 PLOT SCALE = \$SCALE\$
 PLOT DATE = 11/11/2021

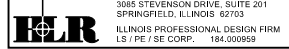
REVISIONS:
 REVISION NO. | DATE | DESCRIPTION
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STATE OF ILLINOIS
 SHELBY COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 13 OF 17 SHEETS | STA. 12+50.00 TO STA. 12+50.00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	18-000287-00-BR	SHELBY	35	31
WESTERVELT ROAD			CONTRACT NO. 95907	

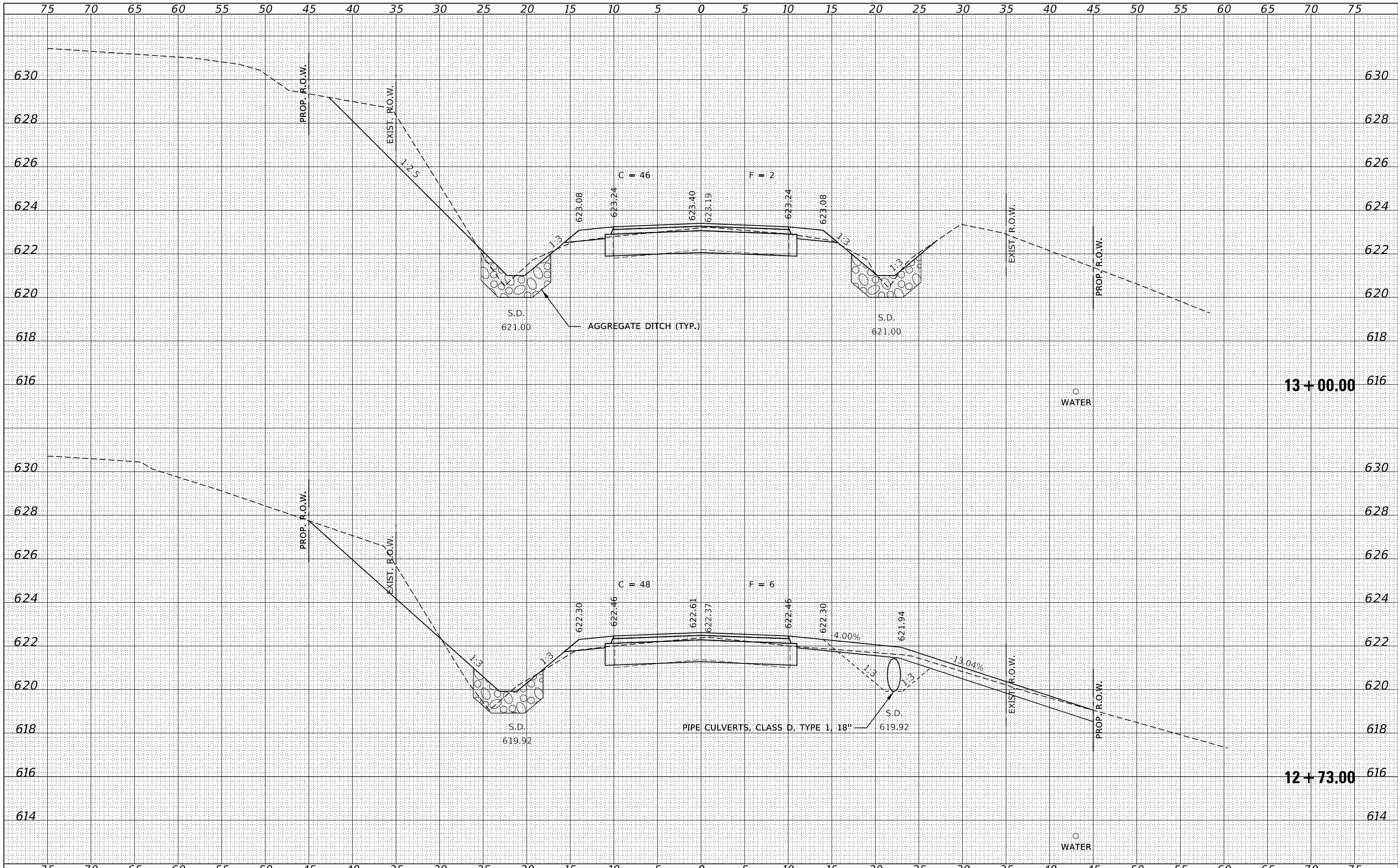


12+50.00

WATER

DATE	
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FILE NAME = 200002-shl-xssheets.dgn
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 DESIGNED - J.W.F.
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 CHECKED - S.W.M.
 DATE - 11/11/2021
 PLOT SCALE = \$SCALE\$
 PLOT DATE = 11/11/2021

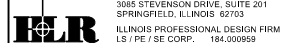
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 CHECKED - S.W.M.
 DATE - 11/11/2021

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STATE OF ILLINOIS
 SHELBY COUNTY HIGHWAY DEPARTMENT

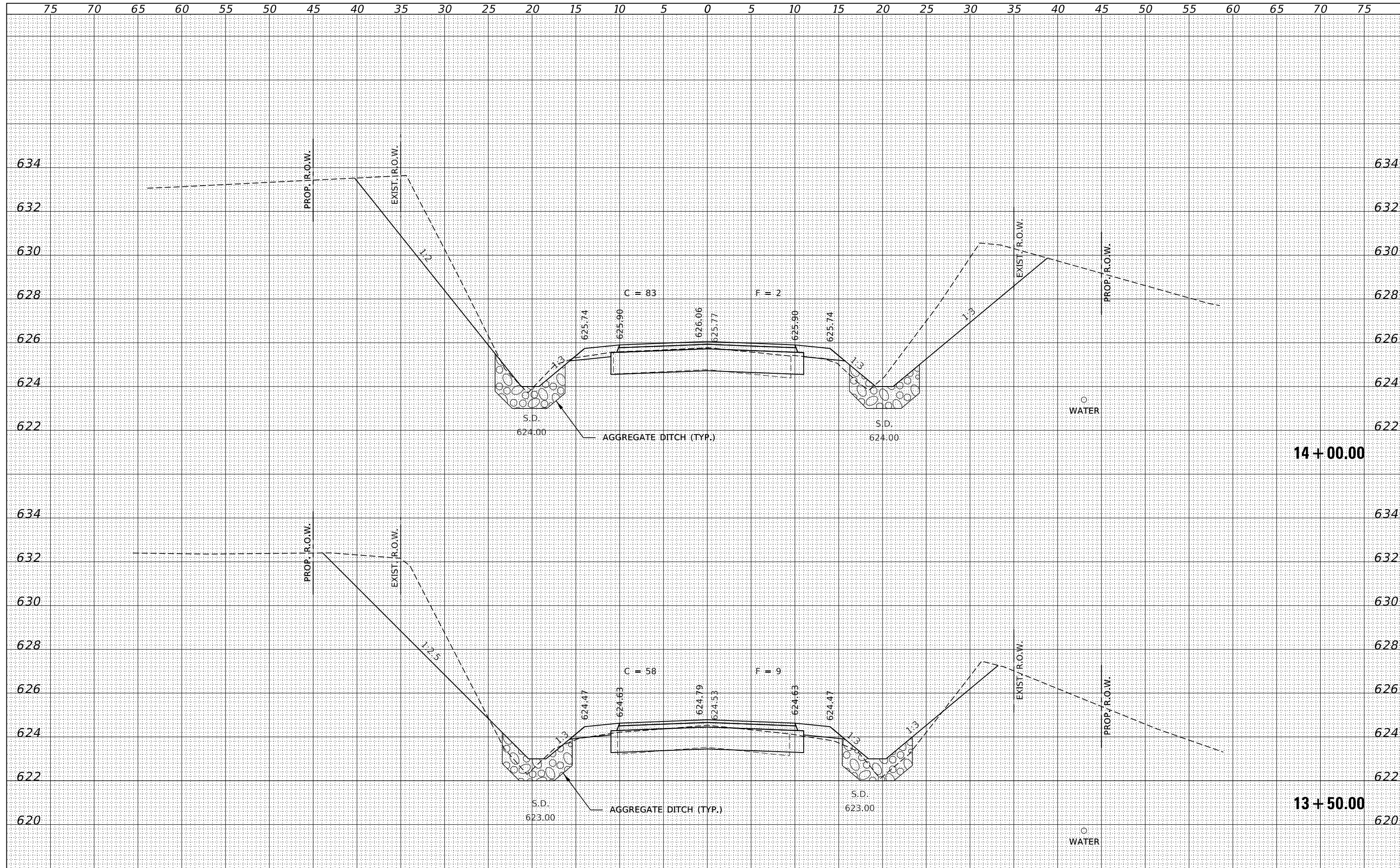
STATION CROSS SECTIONS
 SCALE: 5H:2V
 SHEET NO. 14 OF 17 SHEETS
 STA. 12+73.00 TO STA. 13+00.00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	18-000287-00-BR	SHELBY	35	32
WESTERVELT ROAD			CONTRACT NO. 95907	



DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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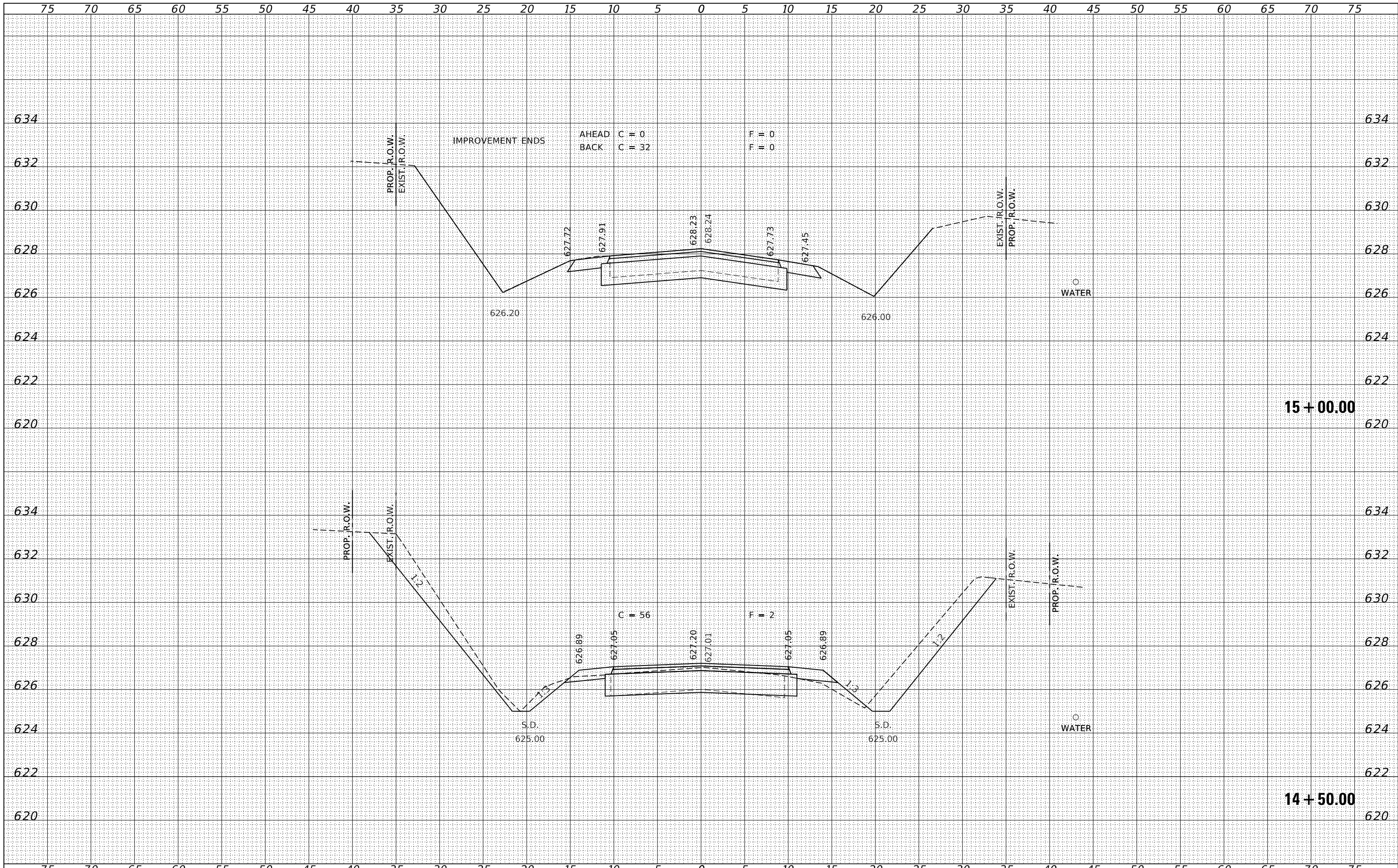
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NOTE BOOK	PLOTTED
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	AREAS
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FILE NAME = 200002-sh1-xssheets.dgn	USER NAME = rmosck	DESIGNED - J.V.F.	REVISD -	STATE OF ILLINOIS SHELBY COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS			C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184.009958		DRAWN - T.W.K.	REVISD -		41	18-000287-00-BR	SHELBY	35	33			
PLOT SCALE = \$SCALE\$		CHECKED - S.W.M.	REVISD -		WESTERVELT ROAD			CONTRACT NO. 95907				
PLOT DATE = 11/11/2021		DATE - 11/11/2021	REVISD -		SCALE: 5H:2V	SHEET NO. 15 OF 17 SHEETS	STA. 13+50.00 TO STA. 14+00.00	ILLINOIS FED. AID PROJECT 7CRW(135)				

DATE	
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SURVEYED	
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TEMPLATE	
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FINAL SURVEY	
NOTE BOOK	
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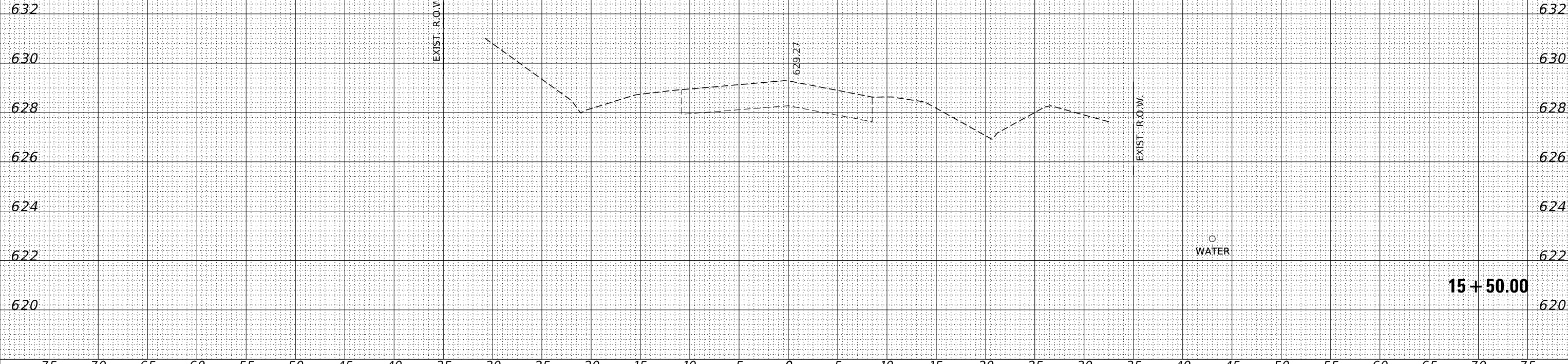
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TEMPLATE	
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CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.009958		DRAWN - T.W.K.	REVISD -		41	18-000287-00-BR	SHELBY	35	34		
PLOT SCALE = \$Scales		CHECKED - S.W.M.	REVISD -		WESTERVELT ROAD		CONTRACT NO. 95907				
PLOT DATE = 11/11/2021		DATE - 11/11/2021	REVISD -		SCALE: 5H:2V	SHEET NO. 16 OF 17 SHEETS	STA. 14+50.00 TO STA. 15+00.00	ILLINOIS FED. AID PROJECT 7CRW(135)			

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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



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

FILE NAME = 200002-shl-xssheets.dgn
HAMPTON, LENZINI AND RENWICK, INC.
 3885 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184-000958

USER NAME = rmosck
 PLOT SCALE = \$\$SCALE\$
 PLOT DATE = 11/11/2021

DESIGNED - J.V.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 11/11/2021

REVISED -
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**STATE OF ILLINOIS
 SHELBY COUNTY HIGHWAY DEPARTMENT**

STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 17 OF 17 SHEETS STA. 15+50.00 TO STA. 15+50.00

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	18-000287-00-BR	SHELBY	35	35
WESTERVELT ROAD				CONTRACT NO. 95907

15+50.00

ILLINOIS FED. AID PROJECT 7CRW(135)