

INDEX OF SHEETS

06-14-2019 LETTING ITEM 138

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES, GENERAL NOTES AND HIGHWAY STANDARDS
3.	SCHEDULE OF QUANTITIES
4-5.	TYPICAL CROSS SECTIONS
6.	PLAN AND PROFILE
7.	PAVEMENT MARKING PLAN
8.	SHOULDER AND GUARDRAIL PLAN
9-14.	BRIDGE PLANS
15.	BORINGS
16-17.	EXISTING PLANS
18-31.	STATION CROSS SECTIONS

HIGHWAY STANDARDS:

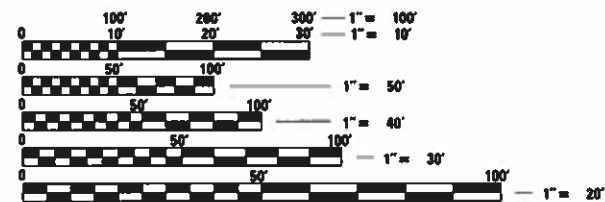
000001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISE REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITIES

EGYPTIAN ELECTRIC CO-OP
10169 OLD HIGHWAY 3
MURPHYSBORO, IL 62966

FRONTIER COMMUNICATIONS
208 W. UNION STREET
MARION, IL 62959

LAKE OF EGYPT WATER AND SEWER DISTRICT
11484 LAKE OF EGYPT ROAD
MARION, IL 62959



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: RURAL COLLECTOR
DESIGN SPEED: 40 MPH
DESIGN TRAFFIC: 2457 ADT

CONTRACT NO. 99620 PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

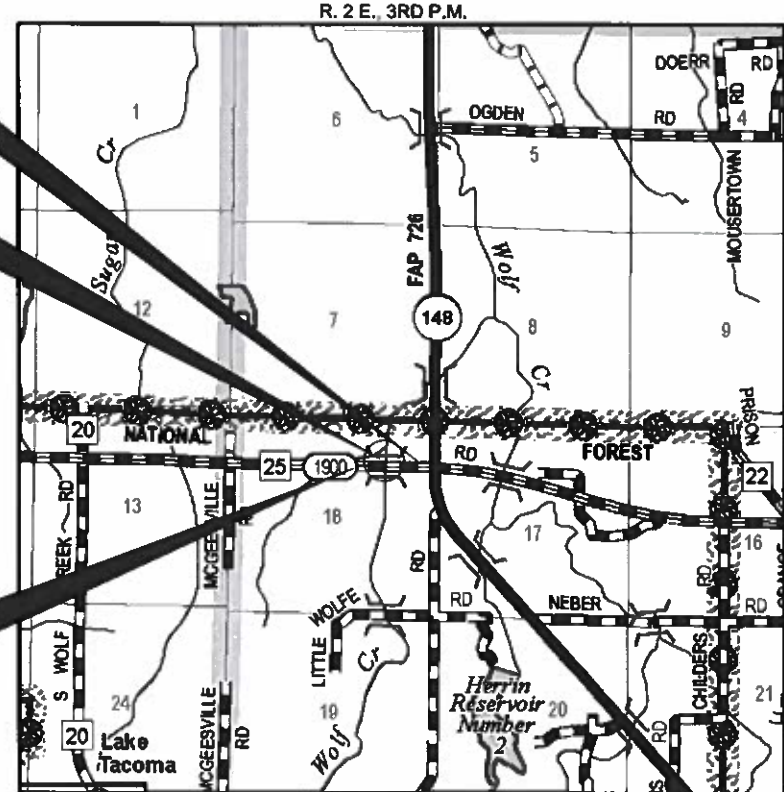
**PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM
OFF SYSTEM BRIDGE**

**PROJECT 1RCB(895)
SECTION 17-00152-00-BR
WILLIAMSON COUNTY
C.H. 25 / FAS 1900 / GRASSY ROAD
STRUCTURE NO. 100-3012
C-95-515-17**

IMPROVEMENT BEGINS
STATION 216+75

STA. 218+25
REINFORCED CONCRETE SLAB SUPERSTRUCTURE
ON EXISTING ABUTMENTS
SINGLE SPAN @ 25'-10"; 36'-0" RDWY.; SKEW = 0°
EXISTING STRUCTURE NO. 100-3012
PROPOSED STRUCTURE NO. 100-3012

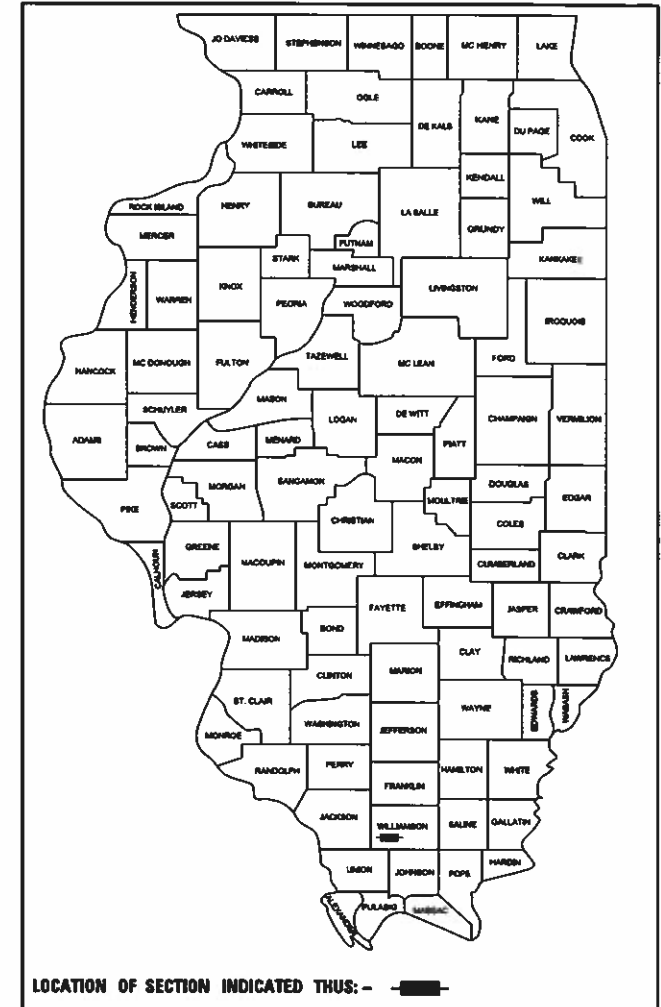
IMPROVEMENT ENDS
STATION 219+75



LOCATION MAP

APPROXIMATE SCALE: 0 1/2 MILE
NET LENGTH OF SECTION = 300 FEET = 0.056 MILES

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1900	17-00152-00-BR	WILLIAMSON	31	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 99620		



ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED *April 1 2019*
[Signature]
COUNTY ENGINEER

PASSED *APRIL 01 2019*
[Signature]
DISTRICT NINE ENGINEER OF LOCAL ROADS & STREETS

Releasing For
Bid Based on
Limited Review

APRIL 01 2019
[Signature]
REGION FIVE ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



WARNING

**CALL 811
BEFORE YOU DIG**

DIG NO: A1900560

DATE: 03/29/2019

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

184.000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

EXPIRES: 11/30/2019 PROJECT NUMBER: 18.0163.136 DATE: 03/29/19

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	CONSTRUCTION TYPE CODE 0013
			TOTAL
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	50
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	150
20200100	EARTH EXCAVATION	CU YD	80
20400800	FURNISHED EXCAVATION	CU YD	395
25100630	EROSION CONTROL BLANKET	SQ YD	598
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	30
28000400	PERIMETER EROSION BARRIER	FOOT	510
28100809	STONE DUMPED RIPRAP, CLASS A5	TON	550
28300400	AGGREGATE DITCH	TON	85
35101400	AGGREGATE BASE COURSE, TYPE B	TON	38
35600724	HOT-MIX ASPHALT BASE COURSE WIDENING, 12"	SQ YD	117
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	276
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	142
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	30
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	134
40603310	HOT MIX ASPHALT SURFACE COURSE, MIX"C", N50	TON	60
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	5
44000100	PAVEMENT REMOVAL	SQ YD	122
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	122
48101200	AGGREGATE SHOULDERS, TYPE B	TON	179
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	59.7
50300260	BRIDGE DECK GROOVING	SQ YD	95
50300300	PROTECTIVE COAT	SQ YD	125
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	24,340
51500100	NAME PLATES	EACH	1
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	30
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	31
60108108	PIPE UNDERDRAINS, TYPE 1, 8"	FOOT	92
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
67100100	MOBILIZATION	L SUM	1

^ SEE SPECIAL PROVISIONS

SUMMARY OF QUANTITIES (CONT)

CODE NO.	ITEM	UNIT	CONSTRUCTION TYPE CODE 0013
			TOTAL
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
78001110	PAINT PAVEMENT MARKING LINE - LINE 4"	FOOT	850
78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	4
78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	2
X2090210	POROUS GRANULAR BACKFILL, SPECIAL	CU YD	65
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.3
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES. 4"	FOOT	140

^ 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, 2016," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- THE REVISION NUMBERS OF THE STANDARDS LISTED IN THE PLANS ARE TO BE USED FOR CONSTRUCTING OF THIS SECTION.
- ALL CLEARING AND GRUBBING, FENCE REMOVAL AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. 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.
- 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.
- 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.
- THE CONTRACTOR SHALL CONSULT THE ENGINEER IN REGARD TO THE EXACT LENGTH OF PIPE CULVERTS AND PIPE DRAINS BEFORE ORDERING THESE ITEMS.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

AGGREGATE SURFACE & BASE COURSE, SHOULDERS	2.05 TON/CU YD
HOT-MIX ASPHALT	112 LBS/SQ YD/INCH THICKNESS
BITUMINOUS MATERIALS (PRIME COAT)	0.25 POUNDS/SQ YD
BITUMINOUS MATERIALS (TACK COAT)	0.025 POUNDS/SQ YD
STONE DUMPED RIPRAP, CLASS A5	1.75 TON/CU YD
TEMPORARY EROSION CONTROL SEEDING	100 LBS / ACRE
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER.
- TREES WITHIN THE RIGHT-OF-WAY WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER. THE TREES DESIGNATED FOR REMOVAL WILL BE FELLED BY THE COUNTY AND REMOVED BY THE CONTRACTOR. TREES GREATER THAN 3" DIA. SHALL NOT BE CLEARED FROM APRIL 1 TO SEPTEMBER 30.
- COSTS ASSOCIATED WITH THE EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE STONE RIPRAP, CLASS A5 SHALL BE INCLUDED WITH THE STONE RIPRAP, CLASS A5.
- COMMENTS:
NONE

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	INCIDENTAL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
FAS 1900/CH 25/GRASSY RD.							
STA. 216+75 TO STA. 218+11.58	66		25.00%	100.00%	49	166	-117
RIPRAP EXCAVATION*		365	25.00%	0.00%	0		0
STA. 218+38.42 TO STA. 219+75	15		25.00%	100.00%	11	290	-279
TOTAL	81	365 *			60	457	-396
USE	80						395

* SEE GENERAL NOTE #10

FURNISHED EXCAVATION 395 CU YDS

PIPE UNDERDRAINS	
LOCATION	FOOT
STA. 216+76	46
STA. 217+50	46
STA.	0
TOTAL	92

PERIMETER EROSION BARRIER	
LOCATION	FOOT
LT. STA. 216+75 TO STA. 218+10	150
LT. STA. 218+50 TO STA. 219+75	125
RT. STA. 217+10 TO STA. 218+10	110
RT. STA. 218+50 TO STA. 219+75	125
TOTAL	510

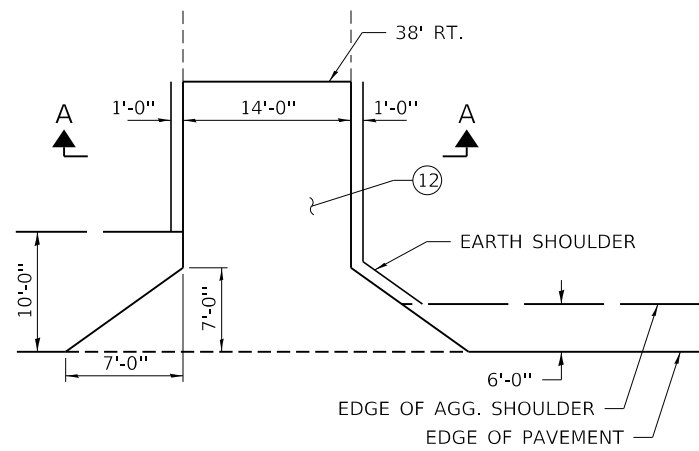
ROADWAY SCHEDULE											
LOCATION	AGGREGATE BASE COURSE TYPE B	HOT-MIX ASPHALT BASE COURSE WIDENING, 12"	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	LEVELING BINDER (MACHINE METHOD), N50	HOT MIX ASPHALT SURF. REMOVAL BUTT-JOINT	HOT MIX ASPHALT SURF. COURSE, MIX"C", N50	INCIDENTAL HOT-MIX ASPHALT SURFACING	PAVEMENT REMOVAL	CLASS D PATCHES, TYPE II, 12 INCH	AGGREGATE SHOULDERS, TYPE B
	35101400	35600724	40600275	40600290	40600625	40600982	40603310	40800050	4400100	44201717	48101200
GRASSY LANE / FAS 1900 / CH 25	TON	SQ YD	POUNDS	POUNDS	TON	SQ. YD.	TON	TON	SQ YD	SQ YD	TON
STA. 216+75 TO STA. 217+91.58		52	36	70	13	67	26				91
STA. 217+91.58 TO STA. 218+11.58			120	1	2		4		53	53	
STA. 218+38.42 TO STA. 218+58.42			120	1	2		4		53	53	88
STA. 218+58.42 TO STA. 219+75		65		70	13	67	26				
PIPE UNDERDRAINS AT STA. 216+76 AND 217+50	22								16	16	
P.E. AT STA. 217+01	16							5			
TOTAL	38	117	276	142	30	134	60	5	122	122	179

AGGREGATE DITCH	
LOCATION	TON
LT. STA. 216+50 TO STA. 217+00	40
RT. STA. 216+50 TO STA. 216+20	45
TOTAL	85

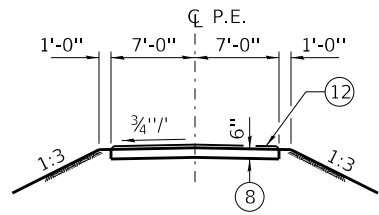
HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
LOCATIONS(S)	FAS 1900/CH 25/GRASSY RD.	FAS 1900/CH 25/GRASSY RD.
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE	LEVELING BINDER COURSE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ 50 Gyr.	4% @ 50 Gyr.
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 9.5
FRICITION 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

PAVEMENT MARKING SCHEDULE					
LOCATION	PAINT PAVEMENT MARKING - LINE 4"			RAISED REFLECTIVE PAVEMENT MARKER	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
	EDGE LINE WHITE	NO PASSING YELLOW	SKIP DASH CENTERLINE YELLOW		
	78001110	78100100	78300200	FOOT	FOOT
LT. STA. 216+75 TO LT. STA. 219+75	300				
CL. STA. 216+75 TO CL. STA. 219+75			80	4	4
RCL. STA. 216+75 TO LCL. STA. 218+45		170			
RT. STA. 216+75 TO LT. STA. 219+75	300				
SUBTOTAL	600	170	80	4	4
TOTAL		850		4	4

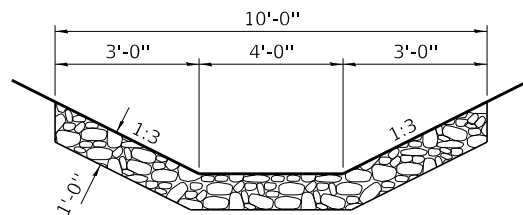
GUARDRAIL SCHEDULE					
LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL REFLECTORS TYPE B	BARRIER WALL REFLECTORS TYPE B
GRASSY ROAD / FAS 1900 / CH 25	63100085	63100167	72501000	78200006	78200010
SEE SHEET 8 FOR LAYOUT	EACH	EACH	EACH	EACH	EACH
LT. STA. 217+37.21 TO LT. STA. 219+12.80	2	2	2	2	1
RT. STA. 217+37.21 TO LT. STA. 219+12.80	2	2	2	2	1
TOTAL	4	4	4	4	2



PRIVATE ENTRANCE DETAIL
RT. STA. 217+01



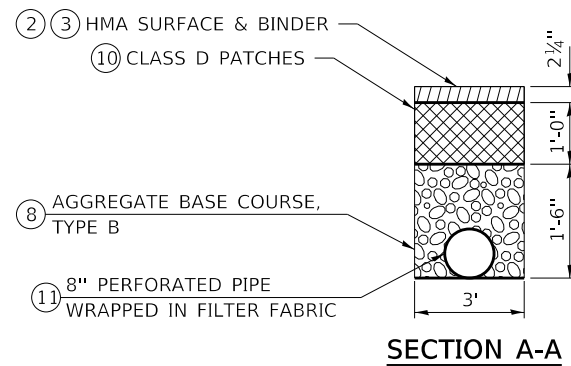
SECTION A-A



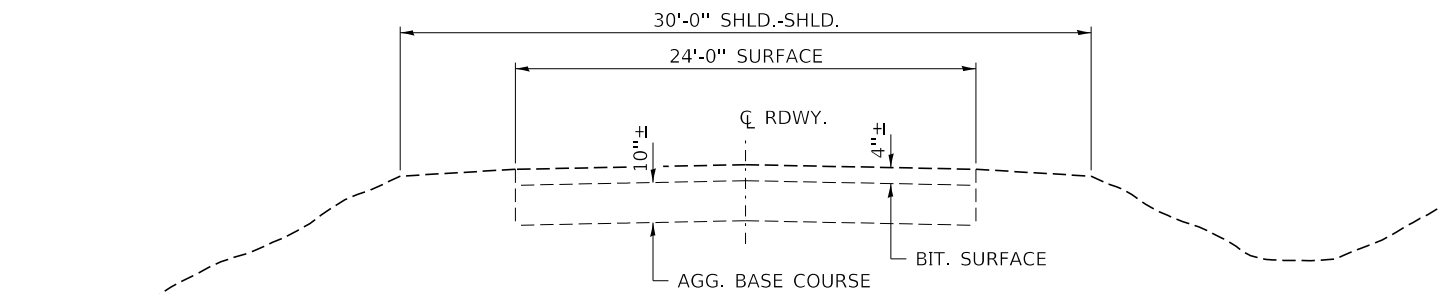
AGGREGATE DITCH (SPECIAL)
LT. STA. 216+50 TO STA. 217+00
RT. STA. 216+50 TO STA. 217+50

LEGEND

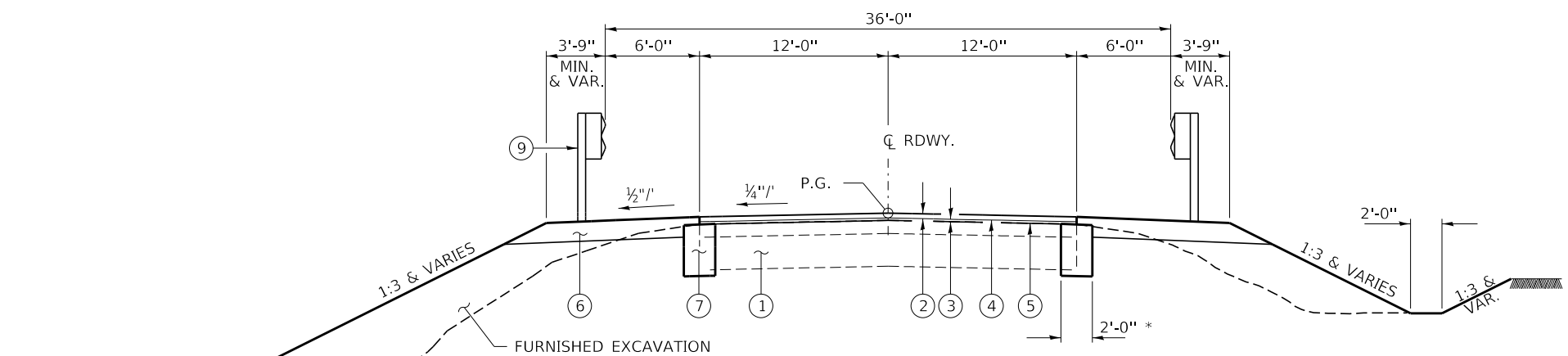
- ① EXISTING PAVEMENT
- ② HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (1.5" MIN)
- ③ LEVELING BINDER (MACHINE METHOD), N50 (3/4" MIN.)
- ④ BITUMINOUS MATERIALS (TACK COAT)
- ⑤ BITUMINOUS MATERIALS (PRIME COAT)
- ⑥ AGGREGATE SHOULDERS, TYPE B 6"
- ⑦ HOT-MIX ASPHALT BASE COURSE WIDENING, 12"
- ⑧ AGGREGATE BASE COURSE, TYPE B
- ⑨ STEEL PLATE BEAM GUARDRAIL / TRAFFIC BARRIER TERMINALS
- ⑩ CLASS D PATCHES, 12"
- ⑪ PIPE UNDERDRAIN, 8"
- ⑫ INCIDENTAL HMA SURFACING, 2"



SECTION A-A



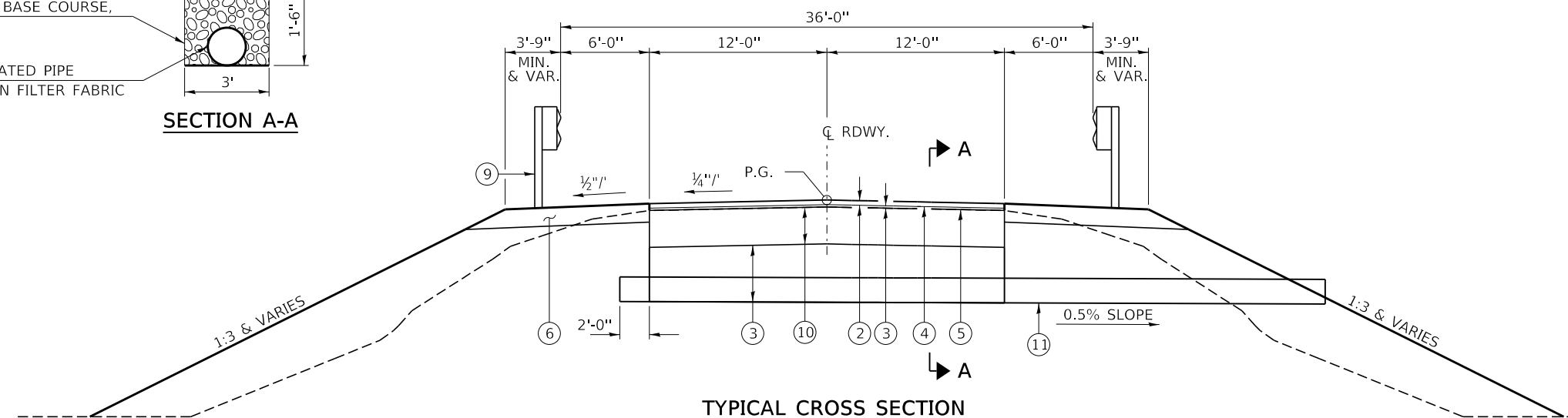
EXISTING CROSS SECTION
STA. 216+75 TO 219+75



TYPICAL CROSS SECTION
STA. 216+75 TO 217+91.58
STA. 218+58.42 TO STA. 219+75

TRANSITION FROM THE PROPOSED SHOULDERS TO THE EXISTING SHOULDERS IS TO BE CONSTRUCTED FROM STA. 216+75 TO STA. 217+25 AND STA. 219+50 TO STA. 219+75.

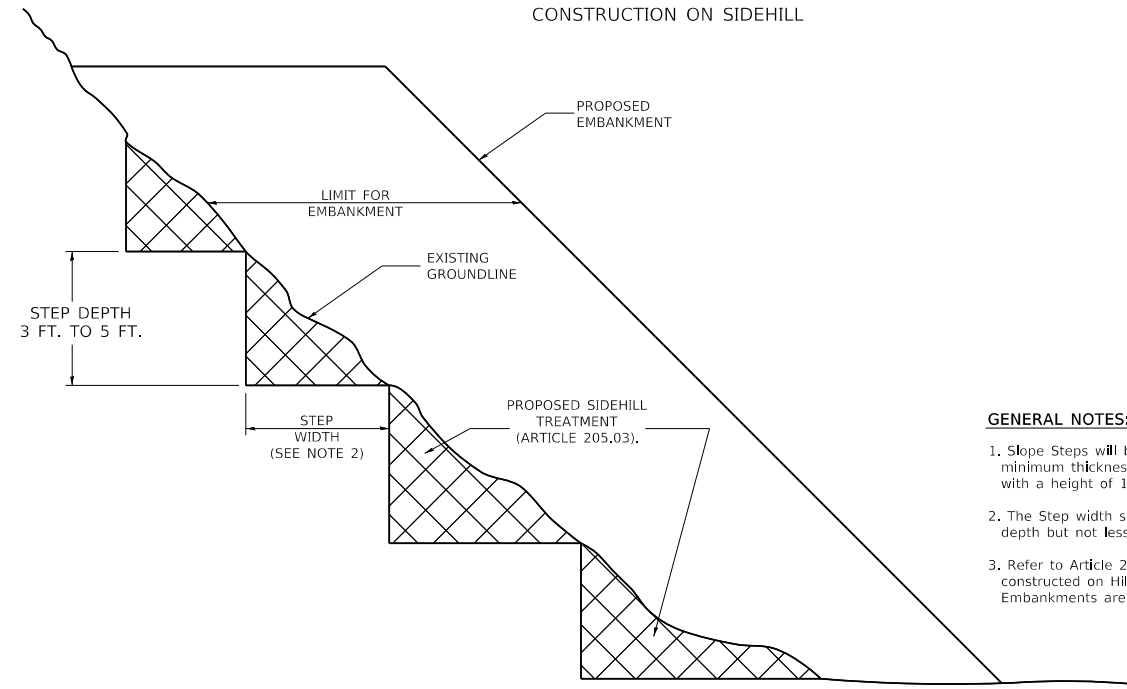
* NOTE: THE WIDTH OF B.C. WIDENING VARIES WEST OF BRIDGE AS THE EDGE OF PAVEMENT VARIES. SEE CROSS SECTIONS.



TYPICAL CROSS SECTION
STA. 216+75 TO STA. 216+78
STA. 217+50 TO STA. 217+53
STA. 217+91.58 TO STA. 218+11.58
STA. 218+38.42 TO STA. 218+58.42


FILE NAME = 180163-shit-typsections.dgn	USER NAME = rhosick	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS WILLIAMSON COUNTY HIGHWAY DEPARTMENT	TYPICAL CROSS SECTIONS	F.A.S.	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 - M.M.P.	REVISED -			1900	17-00152-00-BR	WILLIAMSON	31	4	
PLOT DATE = 3/29/2019	CHECKED - S.W.M.	REVISIED -	SCALE:			SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	CONTRACT NO. 99620			
DATE - 03/29/19	REVISED -	ILLINOIS	FED. AID PROJECT 1RCB(895)								

SLOPE STEPS DETAIL
TYPICAL CROSS-SECTION EMBANKMENT
CONSTRUCTION ON SIDEHILL

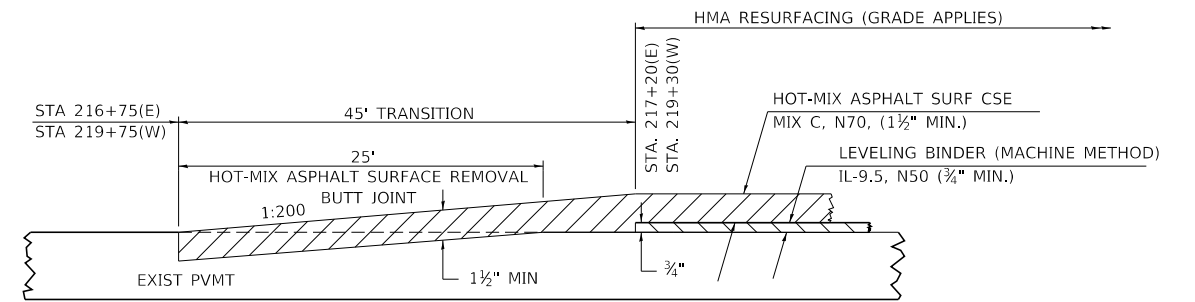
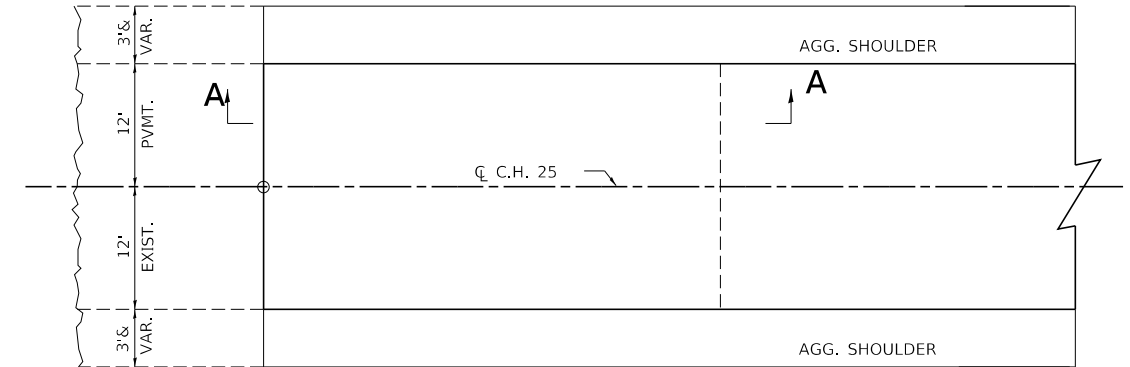


GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "silver fills" and on all fills with a height of 10 feet or greater.
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

REPLACEMENT MATERIAL:
 STANDARD EMBANKMENT
 (IN ACCORDANCE WITH
 205 OF THE STANDARD SPECIFICATION).

All dimensions are in Inches (millimeters)
 unless otherwise noted.

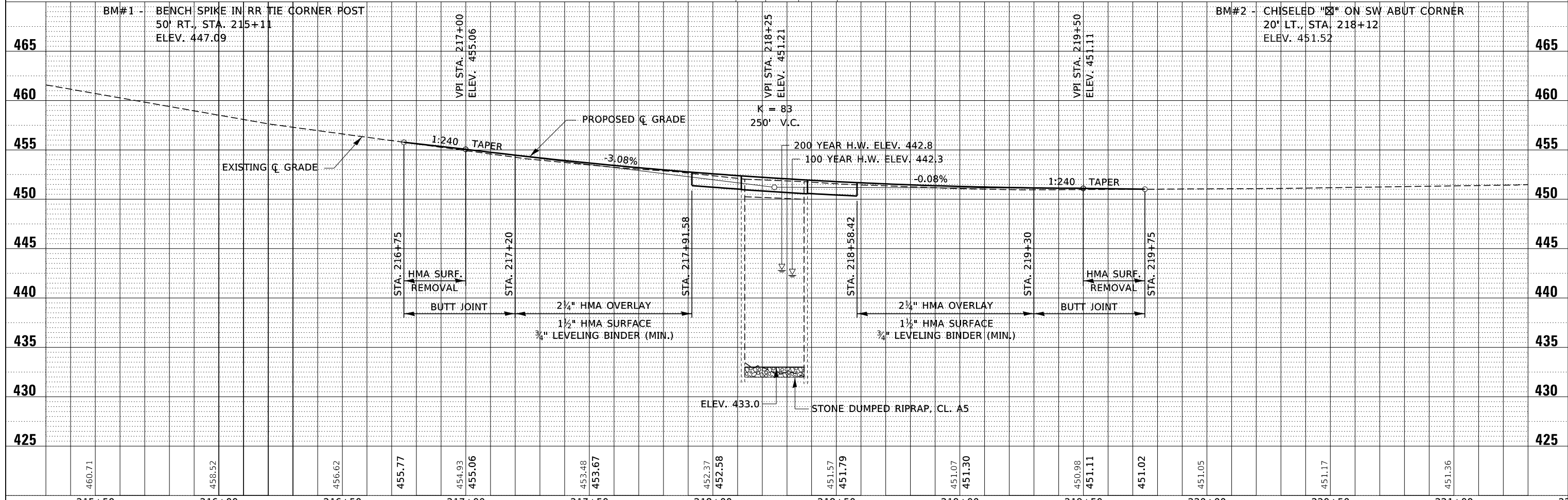
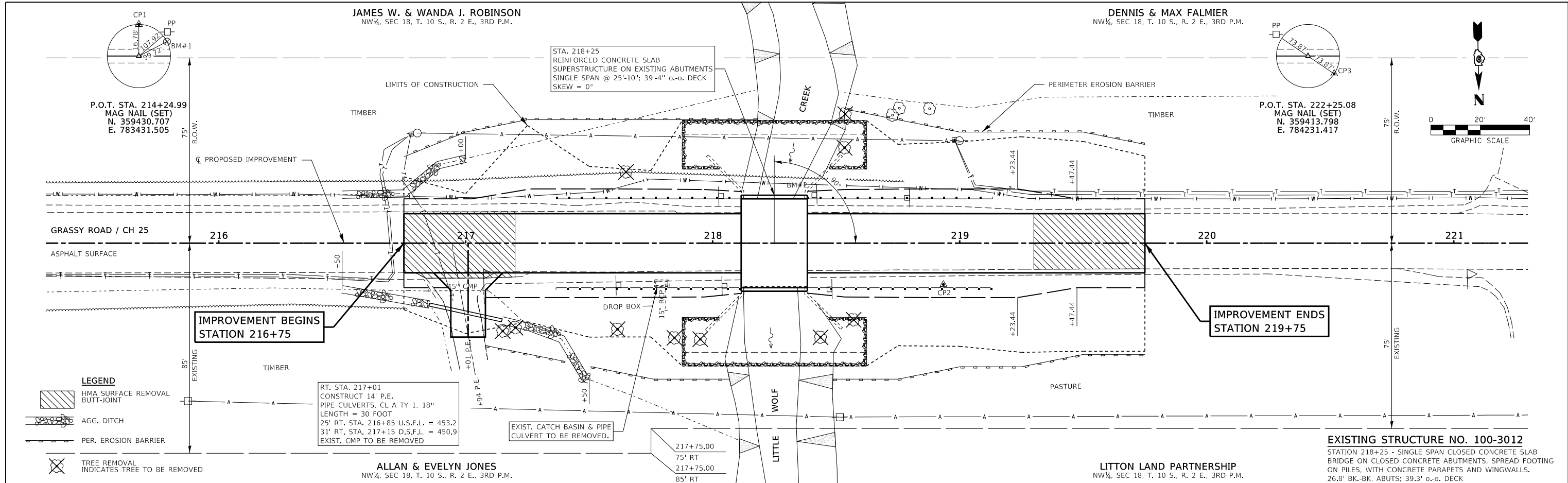


SECTION A-A

FILE NAME = 180163-shit-typsections.dgn	USER NAME = rhosick	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS WILLIAMSON COUNTY HIGHWAY DEPARTMENT	TYPICAL CROSS SECTIONS		F.A.S.	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	DRAWN - M.M.P.	REVISED -	1900				17-00152-00-BR	WILLIAMSON	31	5	
PLOT SCALE = \$\$SCALE\$	CHECKED - S.W.M.	REVISED -	GRASSY ROAD / CH 25				CONTRACT NO. 99620				
PLOT DATE = 3/29/2019	DATE - 03/29/19	REVISED -	SCALE:				SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT 1RC8(895)	

DATE	
BY	
REVIEWED	
PLANNED	
ALIGNED	
CHECKED	
NO. _____	
NOTE BOOK	
NO. _____	
FILE NAME	

DATE	
BY	
REVIEWED	
PLANNED	
GRADES	
CHECKED	
NO. _____	
NOTE BOOK	
NO. _____	
STRUCTURE	
NOTATING	
CHKD	

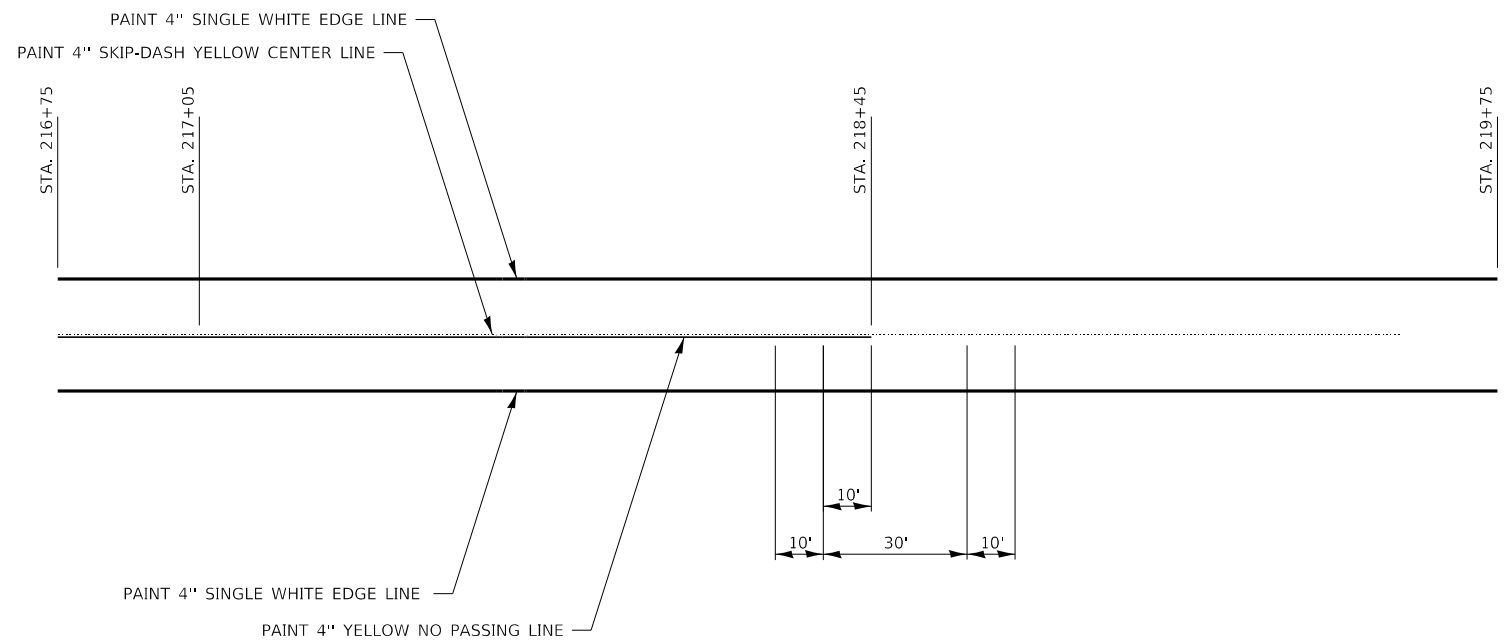
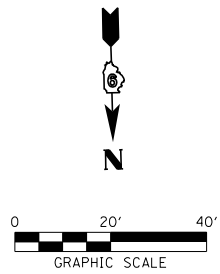


FILE NAME = 180163-ehp-prf.dgn	USER NAME = rmosick	DESIGNED - J.W.F.	REVISED -	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - R.D.H.	REVISED -	1900	17-00152-00-BR	WILLIAMSON	31	6
3085 STEVENSON DRIVE, SUITE 201		CHECKED - S.W.M.	REVISED -	GRASSY ROAD / C.H. 25		CONTRACT NO. 99620		
SPRINGFIELD, ILLINOIS 62710		DATE - 03/29/19	REVISED -	SCALE: 20H:5V		SHEET NO. 1 OF 1 SHEETS		STA. 215+25.00 TO STA. 221+25.00
ILLINOIS PROFESSIONAL DESIGN FIRM						ILLINOIS		FED. AID PROJECT 1R(895)
LS / PE / SE CORP. 184.000959								

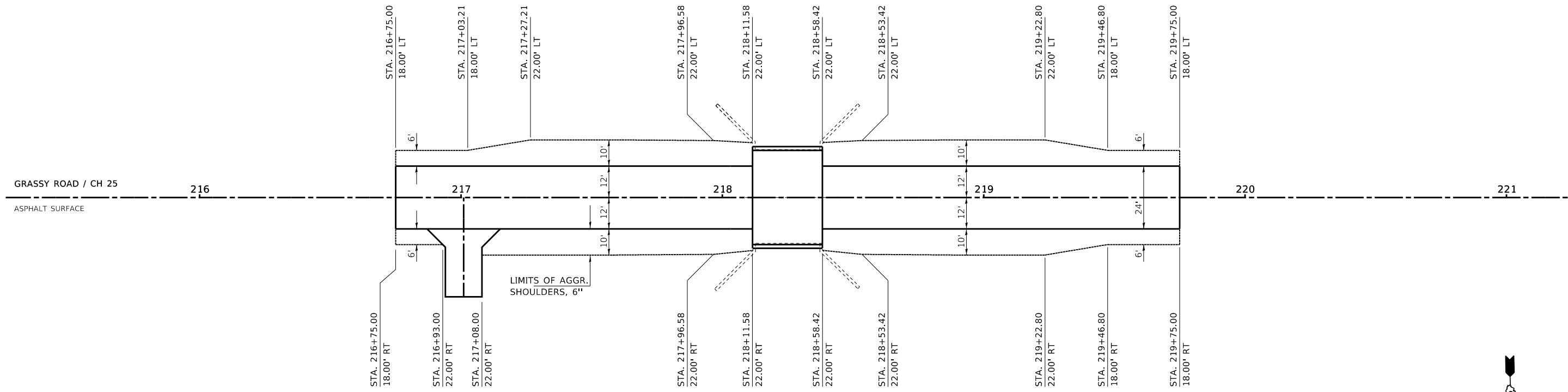
STATE OF ILLINOIS
WILLIAMSON COUNTY HIGHWAY DEPARTMENT

PLAN & PROFILE

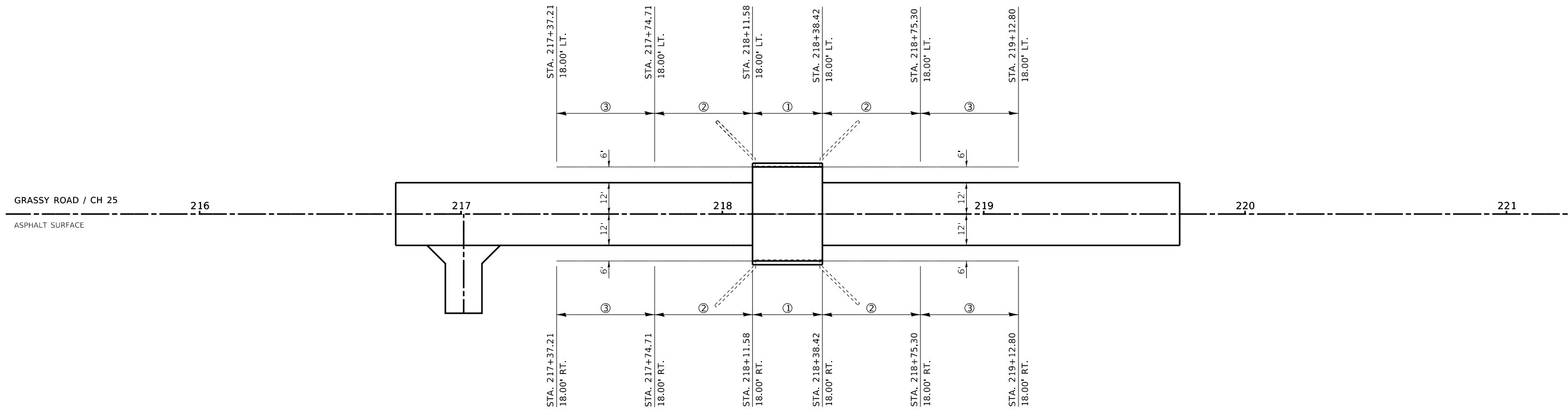
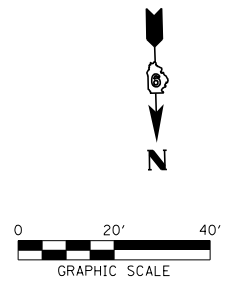
EXISTING STRUCTURE NO. 100-3012
STATION 218+25 - SINGLE SPAN CLOSED CONCRETE SLAB BRIDGE ON CLOSED CONCRETE ABUTMENTS, SPREAD FOOTING ON PILES, WITH CONCRETE PARAPETS AND WINGWALLS. 26.8' BK.-BK. ABUTS: 39.3' o.-o. DECK



FILE NAME = 180163-shi-pvmtmrk.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS WILLIAMSON COUNTY HIGHWAY DEPARTMENT	PAVEMENT MARKING PLAN	F.A.S.	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		DRAWN - M.M.P.	REVISED -			1900	17-00152-00-BR	WILLIAMSON	31	7
PLOT SCALE = \$SCALE\$		CHECKED - S.W.M.	REVISED -			GRASSY ROAD	CONTRACT NO. 99620			
PLOT DATE = 3/29/2019		DATE - 03/29/19	REVISED -			SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	
						ILLINOIS FED. AID PROJECT 1RCB(895)				



SHOULDER LAYOUT



GUARDRAIL LAYOUT

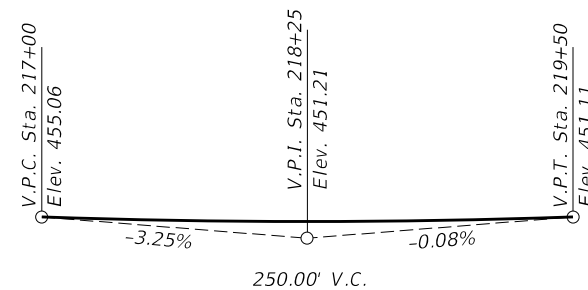
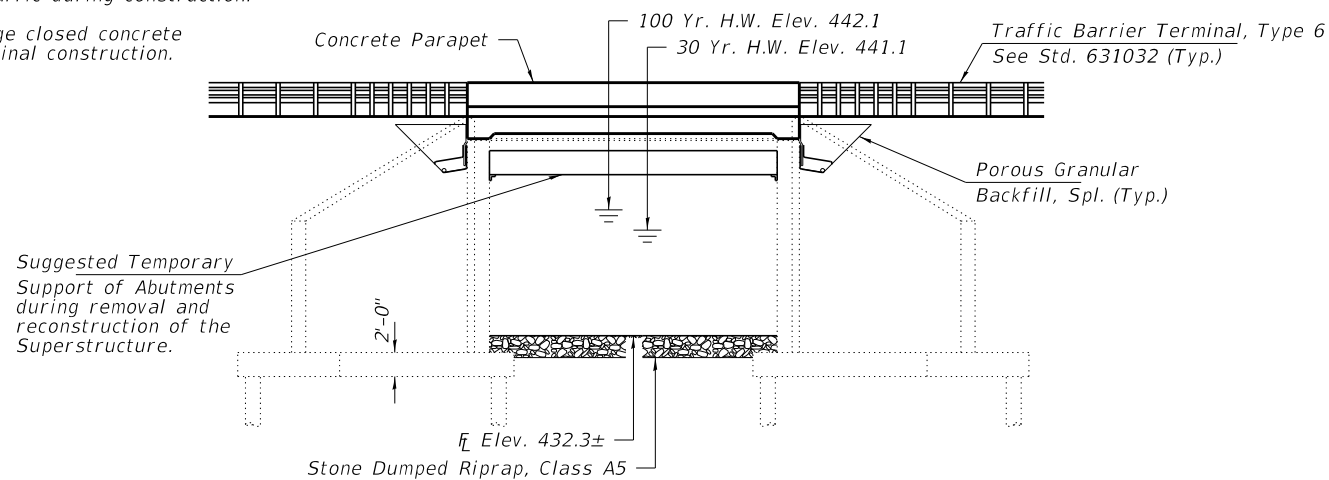
- ① CONCRETE PARAPET
- ② TRAFFIC BARRIER TERMINAL TYPE 6
- ③ TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL TANGENT

FILE NAME = 180163-shi-guardraLdgn	USER NAME = rmosck	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS WILLIAMSON COUNTY HIGHWAY DEPARTMENT	GUARDRAIL AND SHOULDER LAYOUT		F.A.S.	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 - M.M.P.	REVISED -		1900	17-00152-00-BR	WILLIAMSON	31	8		
PLOT DATE = 3/29/2019	DATE - 03/29/19	CHECKED - S.W.M.	REVISED -		GRASSY ROAD		CONTRACT NO. 99620		ILLINOIS	FED. AID PROJECT 1RCB(895)	
		DATE - 03/29/19	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			

EXISTING STRUCTURE: Sta. 218+25, Str. No. 100-3012. Single span RC slab bridge with concrete parapet on closed concrete abutments and wingwalls, with timber pile supported footings. 26'-10" bk.-bk. abuts.; 39.3' o.-o. deck

Structure closed to traffic during construction.

Contractor shall salvage closed concrete abutments for use in final construction.



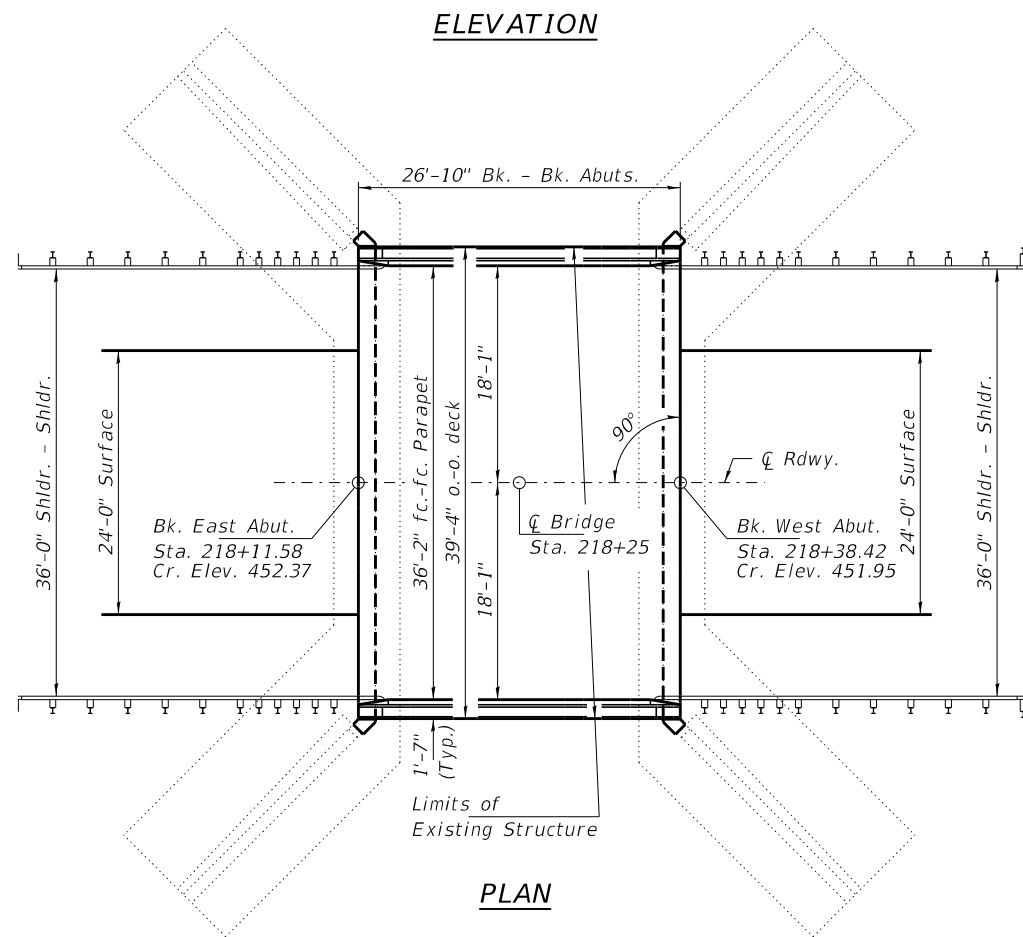
PROFILE GRADE
C.H. 25

GENERAL NOTES

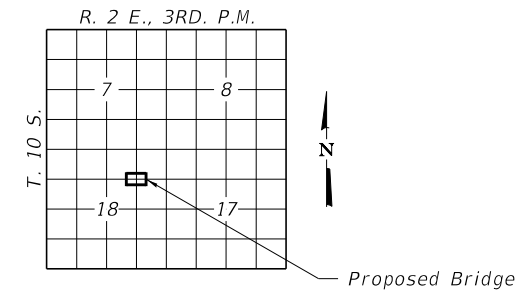
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions. Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work. 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. The Contractor shall not allow any materials to be dropped into the stream during removal operations or during construction procedures. Protective Coat shall be applied to the deck surface and each side of the parapets and slab fascia. Bridge Deck Grooving shall be completed on the bridge deck. Pavement rollers shall be allowed on bridge deck grooving. Existing Name Plate shall be salvaged and installed below proposed Name Plate. Name Plates shall be drilled and grouted to the southwest abutment. The abutments shall be stabilized in place near the bearing seat during removal of the concrete slab and reconstruction of the proposed slab and parapets. Cost shall be included in cost of Removal of the Existing Superstructure. See Special Provisions.

INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. General Details
3. Top of Slab Elevations
4. Superstructure
5. Superstructure Details
6. Abutments
7. Boring
- 8-9. Existing plans



PLAN



LOCATION SKETCH

DESIGN STRESSES

FIELD UNITS (NEW CONST.)

$f'_c = 5,000$ psi
 $f_y = 60,000$ psi (Reinf.)

FIELD UNITS (EXIST. CONST.)

$f_c = 1,400$ psi
 $f_s = 20,000$ psi (Reinf.)

LOADING HL-93-SUPERSTRUCTURE

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

LOADING H-15-SUBSTRUCTURE

(Existing Construction)

DESIGN SPECIFICATIONS

NEW CONSTRUCTION

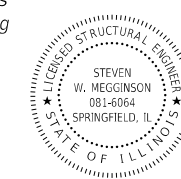
2017 AASHTO LRFD Bridge Design Specifications, 8th Edition with all interims.

WATERWAY INFORMATION

Drainage Area = 2.3 Sq. Mi.		Existing Low Grade Elev. 451.0 @ Sta. 9+00 Proposed Low Grade Elev. 451.0 @ Sta. 9+00							
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Exist. Overtop	10	1170	180	180	439.95	0.71	0.71	440.66	440.66
Design	30	170	210	210	441.13	1.21	1.21	442.34	442.34
Base/Prop Overtop	100	2340	240	240	442.11	1.98	1.98	444.09	444.09
Scour Check	200	2730	240	240	442.49	2.54	2.54	445.03	445.03
Max. Calc.	500	3310	260	260	443.06	3.42	3.42	446.48	446.48
			10 Year Velocity through Existing Bridge = 8.1 fps			10 Year Velocity through Proposed Bridge = 8.1 fps			

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 03/29/2019
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



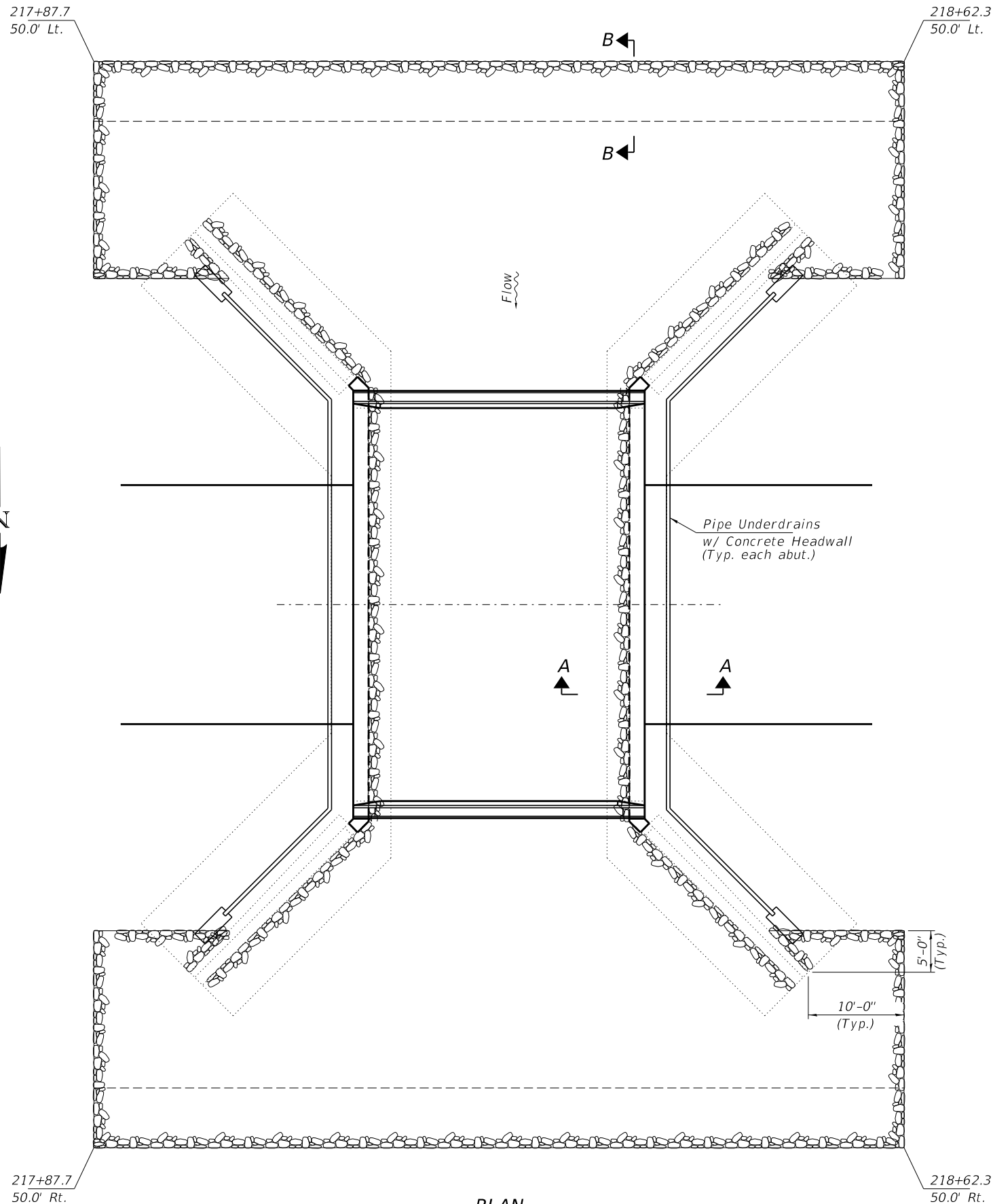
Expires 11-30-2020

DESIGN SCOUR ELEVATION TABLE

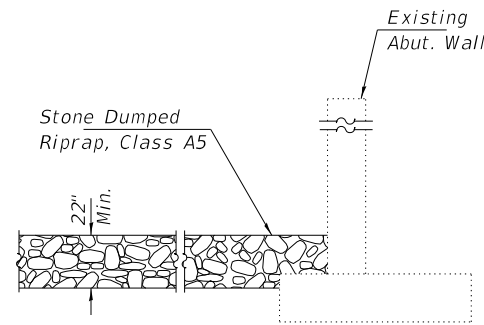
Event/Limit State	Design Scour Elev. (ft.)		Item 113
	W. Abut.	E. Abut.	
Q100	426.4	426.8	7
Q200	419.6	420.0	
Design	430.5	430.9	
Check	430.5	430.9	

**GENERAL PLAN & ELEVATION
FAS 1900 / CH 25 / GRASSY ROAD
OVER LITTLE WOLF CREEK
SECTION 17-00152-00-BR
WILLIAMSON COUNTY
STATION 218+25.00
STRUCTURE NO. 100-3012**

FILE NAME = 180163-shl-bridge.dgn	USER NAME =	DESIGNED - J.R.B.	REVISED -	STATE OF ILLINOIS WILLIAMSON COUNTY HIGHWAY DEPARTMENT	GENERAL PLAN & ELEVATION STRUCTURE NO. 100-3012	F.A.S.	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. 184.009959	PLOT SCALE =	CHECKED - S.M.S.	REVISED -			1900	17-00152-00-BR	WILLIAMSON	31	9
PLOT DATE = 3/29/2019		DRAWN - R.D.H.	REVISED -			C.H. 25 / GRASSY ROAD		CONTRACT NO. 99620		
		CHECKED - S.W.M.	REVISED -			ILLINOIS FED. AID PROJECT 1RCB(895)				

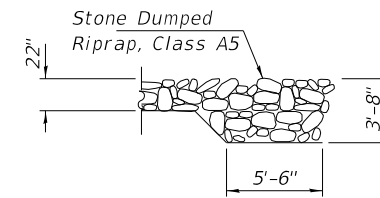


PLAN

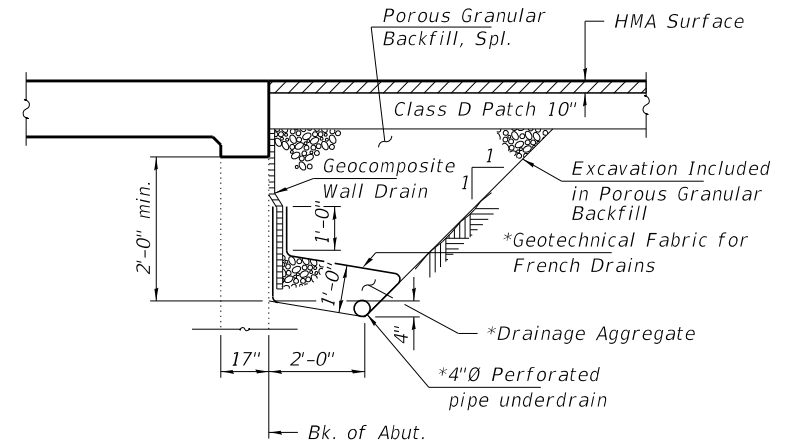


SECTION A-A

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



SECTION B-B



SECTION THRU ABUTMENT

(Horiz. dim. @ Rt. L's)

* Included in the cost of Pipe Underdrains for Structures.

Note: All drainage system components 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).

LITTLE WOLF CREEK
 BUILT 201_ BY
 C.H. 25 / F.A.S. 1900
 WILLIAMSON COUNTY
 SEC. 17-00152-00-BR
 STR. NO. 100-3012
 LOADING HL-93

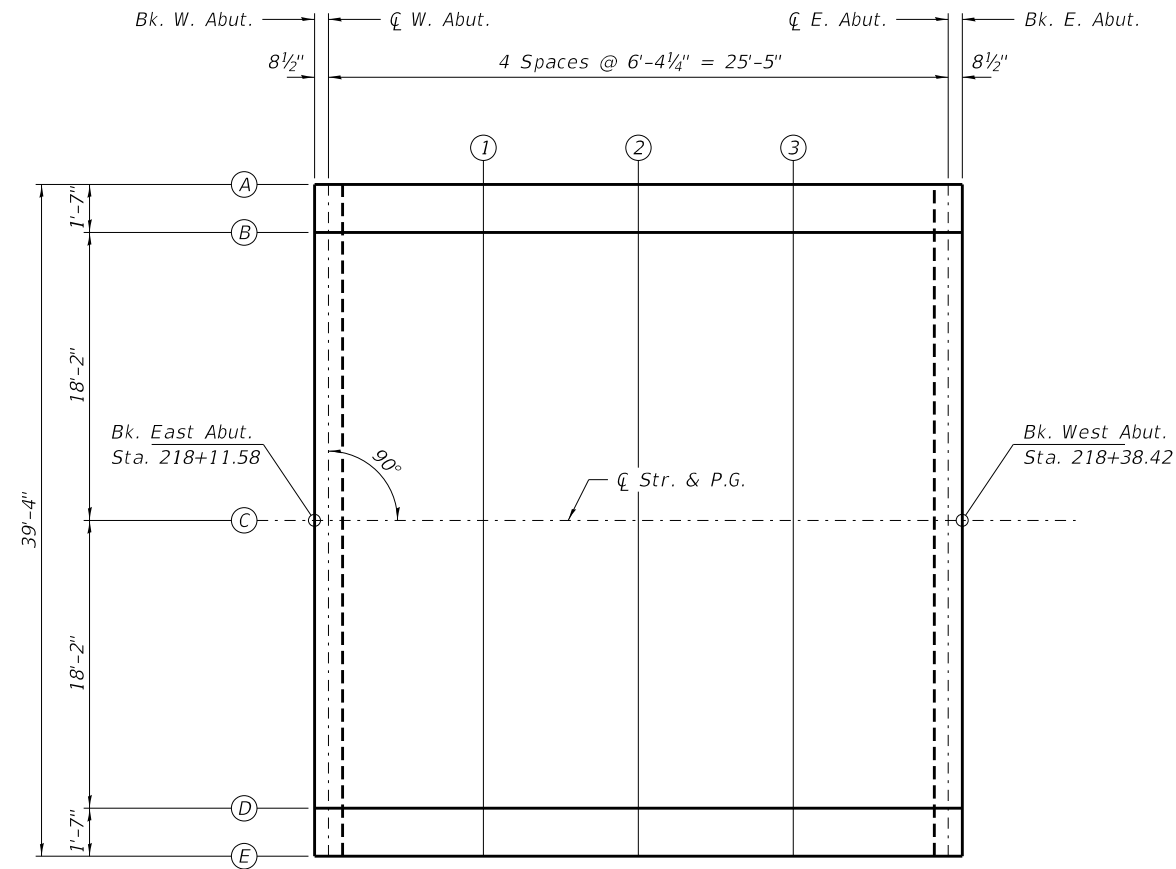
NAME PLATE

See Std. 515001

Set Name Plate in inside face of North parapet of the Abutment. Place existing Name Plate beside proposed Name Plate.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Dumped Riprap, Class A5	Ton			550
Removal of Existing Superstructures	Each	1		1
Concrete Superstructure	Cu. Yd.	59.7		59.7
Bridge Deck Grooving	Sq. Yd.	95		95
Protective Coat	Sq. Yd.	125		125
Reinforcement Bars, Epoxy Coated	Pound	24,340		24,340
Geocomposite Wall Drain	Sq. Yd.	31		31
Porous Granular Backfill, Special	Ton			65
Name Plate (Special)	Each		1	1
Pipe Underdrains for Structures 4"	Foot	140		140



PLAN

TOP OF SLAB ELEVATIONS

LOCATION		BK. E.	CL E.	SPAN 1			CL W.	BK. W.
		ABUT.	ABUT.	1	2	3	ABUT.	ABUT.
LINE	T.	452.117	452.105	451.997	451.894	451.796	451.703	451.693
A	ADJ.	452.117	452.105	451.997	451.895	451.797	451.703	451.693
Bott. of Slab		450.627	450.615	450.508	450.405	450.307	450.213	450.203

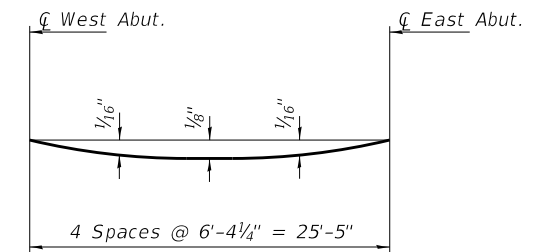
LOCATION		BK. E.	CL E.	SPAN 1			CL W.	BK. W.
		ABUT.	ABUT.	1	2	3	ABUT.	ABUT.
LINE	T.	451.994	451.981	451.874	451.771	451.673	451.580	451.570
B	ADJ.	451.994	451.981	451.874	451.772	451.673	451.580	451.570
Bott. of Slab		450.660	450.648	450.541	450.438	450.340	450.246	450.236

LOCATION		BK. E.	CL E.	SPAN 1			CL W.	BK. W.
		ABUT.	ABUT.	1	2	3	ABUT.	ABUT.
LINE	T.	452.370	452.358	452.250	452.148	452.050	451.956	451.946
C	ADJ.	452.370	452.358	452.251	452.148	452.050	451.956	451.946
Bott. of Slab		451.037	451.025	450.917	450.815	450.717	450.623	450.613

LOCATION		BK. E.	CL E.	SPAN 1			CL W.	BK. W.
		ABUT.	ABUT.	1	2	3	ABUT.	ABUT.
LINE	T.	451.994	451.981	451.874	451.771	451.673	451.580	451.570
D	ADJ.	451.994	451.981	451.874	451.772	451.673	451.580	451.570
Bott. of Slab		450.660	450.648	450.541	450.438	450.340	450.246	450.236

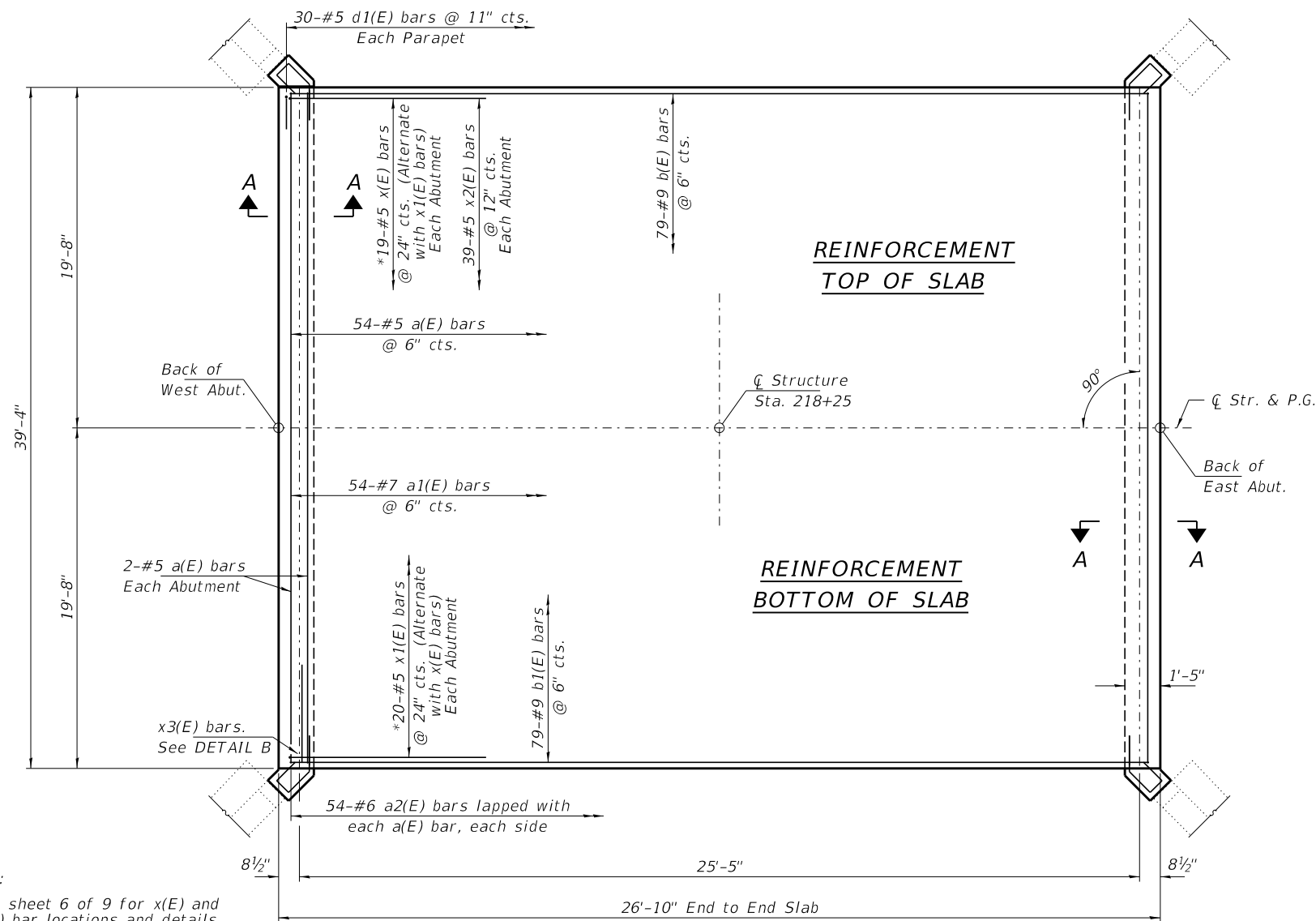
LOCATION		BK. E.	CL E.	SPAN 1			CL W.	BK. W.
		ABUT.	ABUT.	1	2	3	ABUT.	ABUT.
LINE	T.	452.117	452.105	451.997	451.894	451.796	451.703	451.693
E	ADJ.	452.117	452.105	451.997	451.895	451.797	451.703	451.693
Bott. of Slab		450.627	450.615	450.508	450.405	450.307	450.213	450.203

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



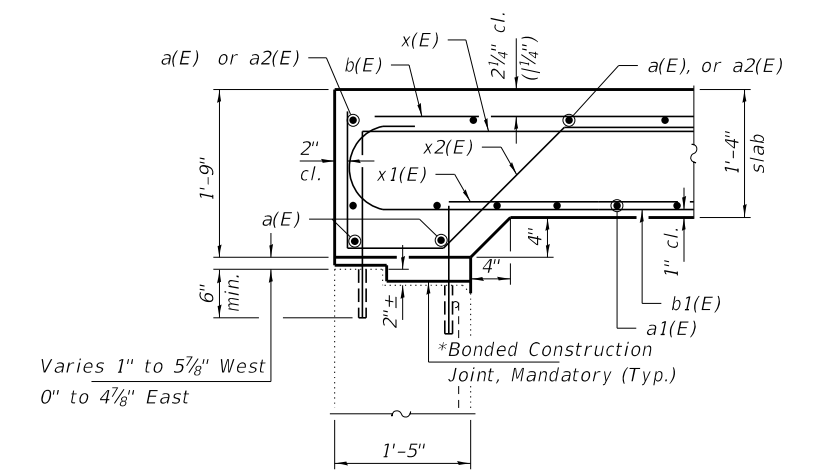
DEAD LOAD DEFLECTION DIAGRAM
 (Includes weight of concrete only.)

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.



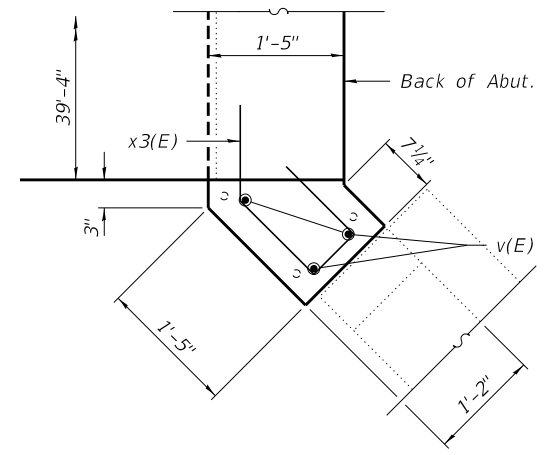
Note:
 *See sheet 6 of 9 for x(E) and x1(E) bar locations and details, to be set in abutment walls

PLAN



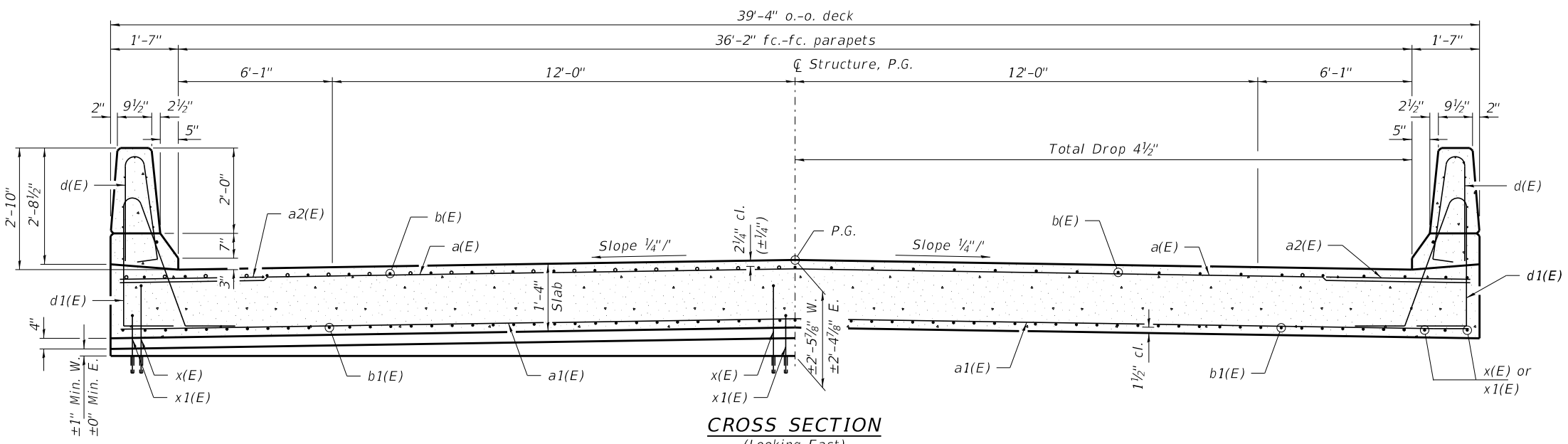
SECTION A-A

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

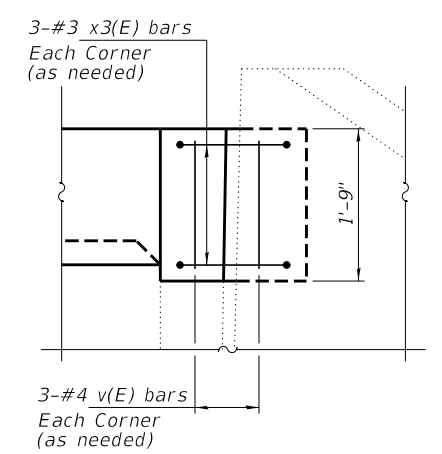


CORNER DETAIL

(Typ. all corners)



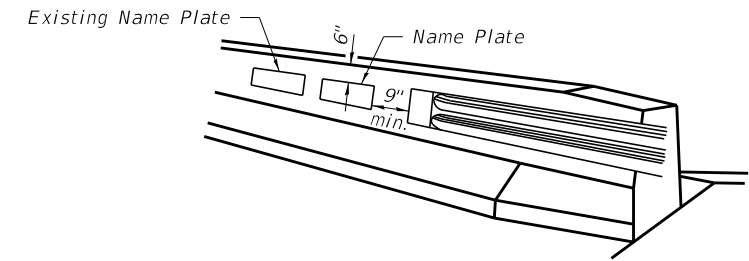
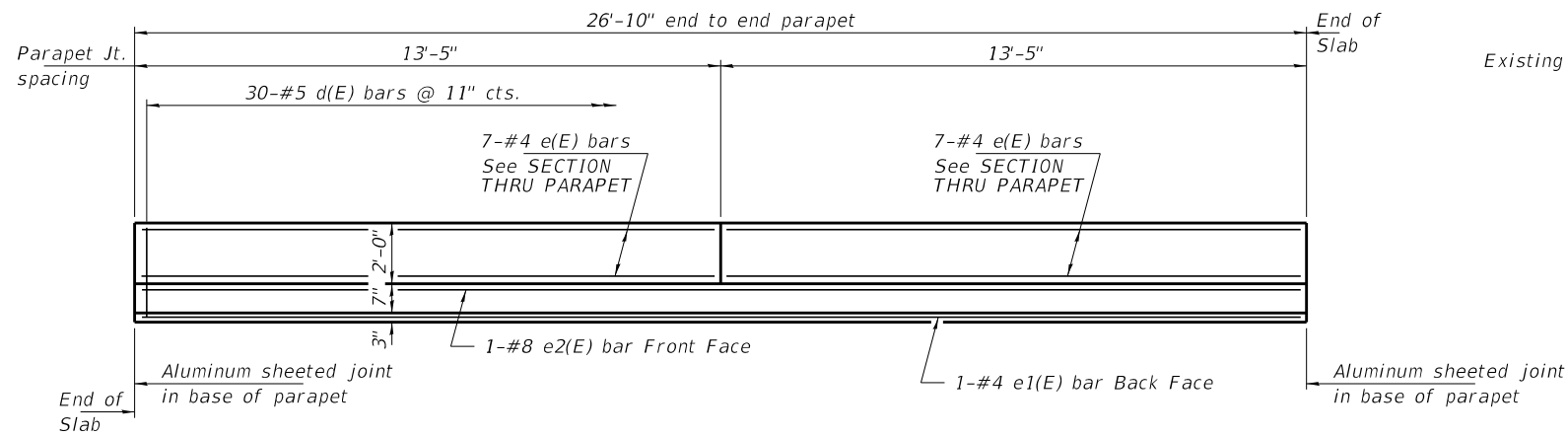
CROSS SECTION
 (Looking East)



DETAIL B

The Engineer shall determine the need for v(E) bars and x3(E) bars in abutment corners after slab and concrete removal at each corner. The Contractor shall install bars at the direction of the Engineer.

FILE NAME = 180163-shl-bridge.dgn	USER NAME =	DESIGNED - J.R.B.	REVISED -	STATE OF ILLINOIS WILLIAMSON COUNTY HIGHWAY DEPARTMENT	SUPERSTRUCTURE STRUCTURE NO. 100-3012	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.M.S.	REVISED -			1900	17-00152-00-BR	WILLIAMSON	31	12
PLOT DATE = 3/29/2019		DRAWN - R.D.H.	REVISED -			C.H. 25 / GRASSY ROAD				CONTRACT NO. 99620
		CHECKED - S.W.M.	REVISED -			ILLINOIS / FED. AID PROJECT 1RCB(895)				

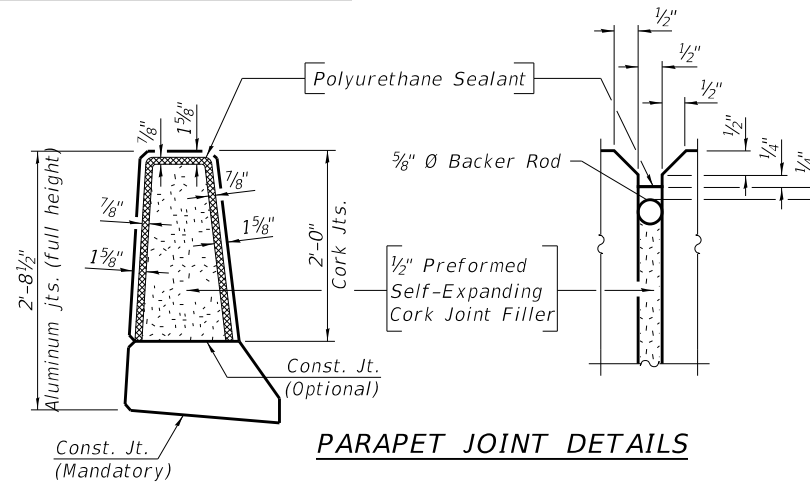


NAME PLATE LOCATION DETAIL

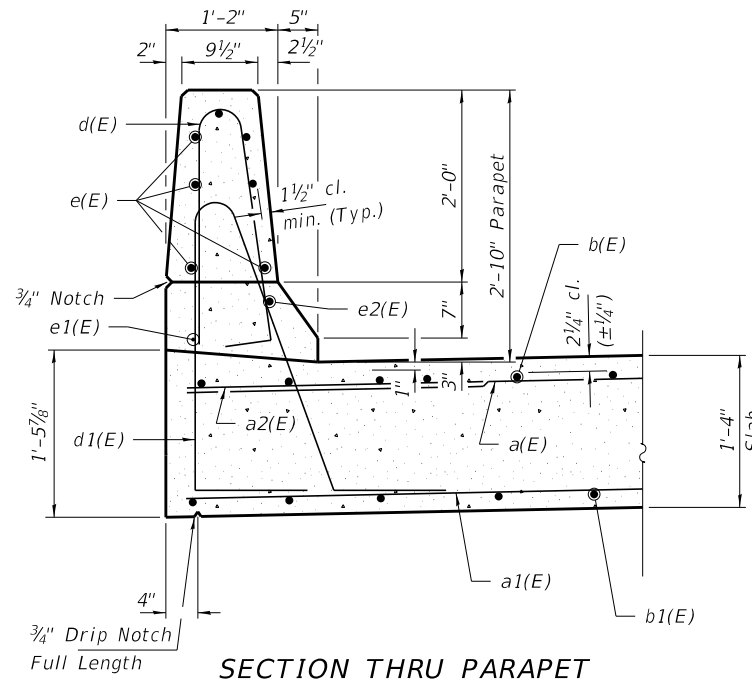
INSIDE ELEVATION OF PARAPET

MINIMUM BAR LAP

(Parapet)
 #4 bar = 2'-5"
 #8 bar = 5'-11"



PARAPET JOINT DETAILS



SECTION THRU PARAPET

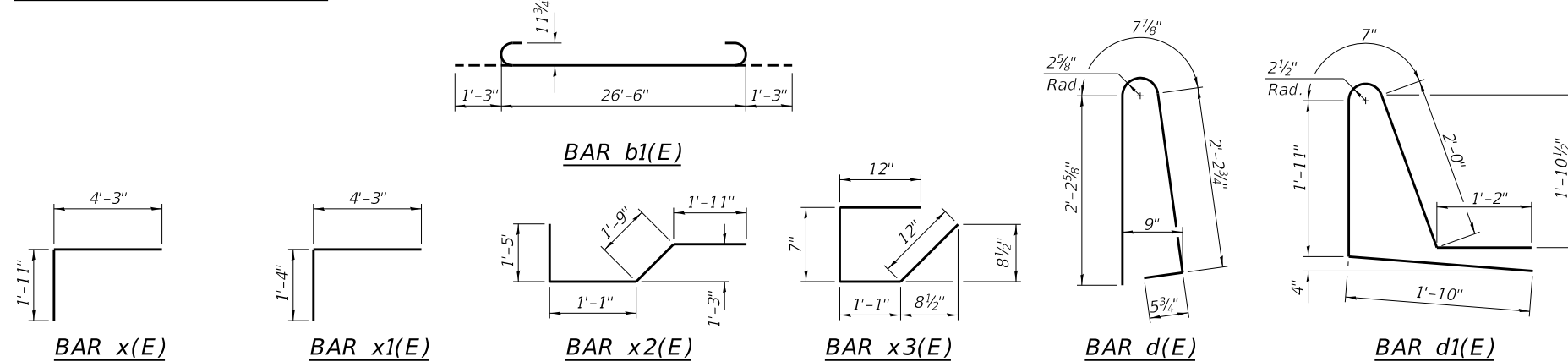
Notes:

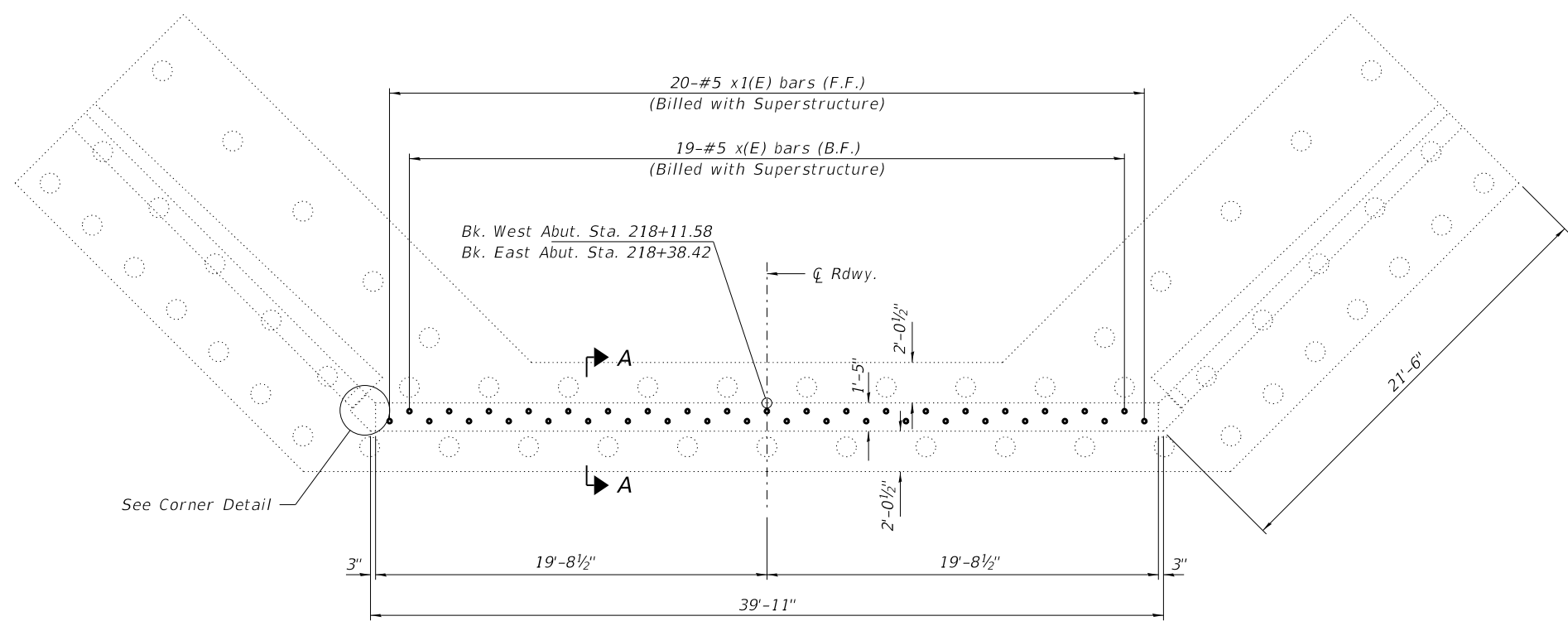
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
 The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coatings Spec. SSPC-SP1 prior to painting.
 The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete. The clamping device shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
 The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
 The Polyurethane Sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.
 Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

SUPERSTRUCTURE BILL OF MATERIAL

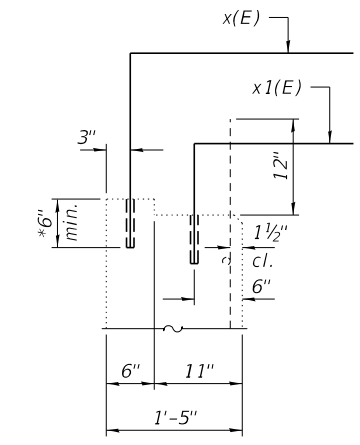
BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	58	#5	39'-0"	—
a1(E)	54	#7	39'-0"	—
a2(E)	54	#6	6'-6"	—
b(E)	79	#9	26'-6"	—
b1(E)	79	#9	29'-0"	—
d(E)	60	#5	5'-7"	⏏
d1(E)	60	#5	7'-6"	⏏
e(E)	28	#4	13'-1"	—
e1(E)	2	#4	26'-6"	—
e2(E)	2	#8	26'-6"	—
v(E)	12	#4	1'-3"	—
x(E)	38	#5	6'-2"	⏏
x1(E)	40	#5	5'-7"	⏏
x2(E)	78	#5	6'-2"	⏏
x3(E)	12	#3	3'-8"	⏏
Concrete Superstructure			Cu. Yd.	59.7
Bridge Deck Grooving			Sq. Yd.	102
Protective Coat			Sq. Yd.	125
Reinf. Bars, Epoxy Coated			Pound	24,340

SECTION THRU PARAPET

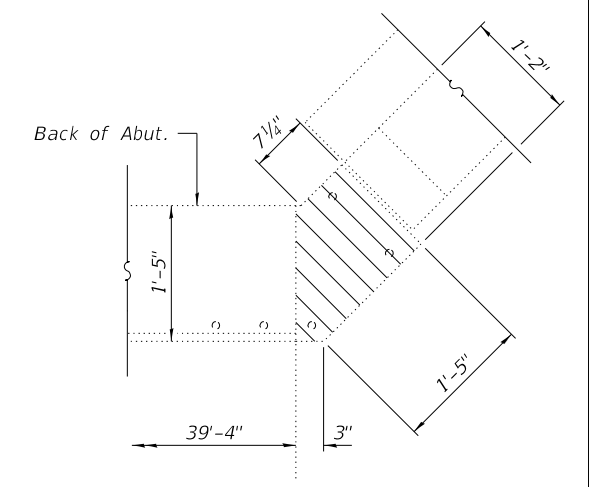




PLAN



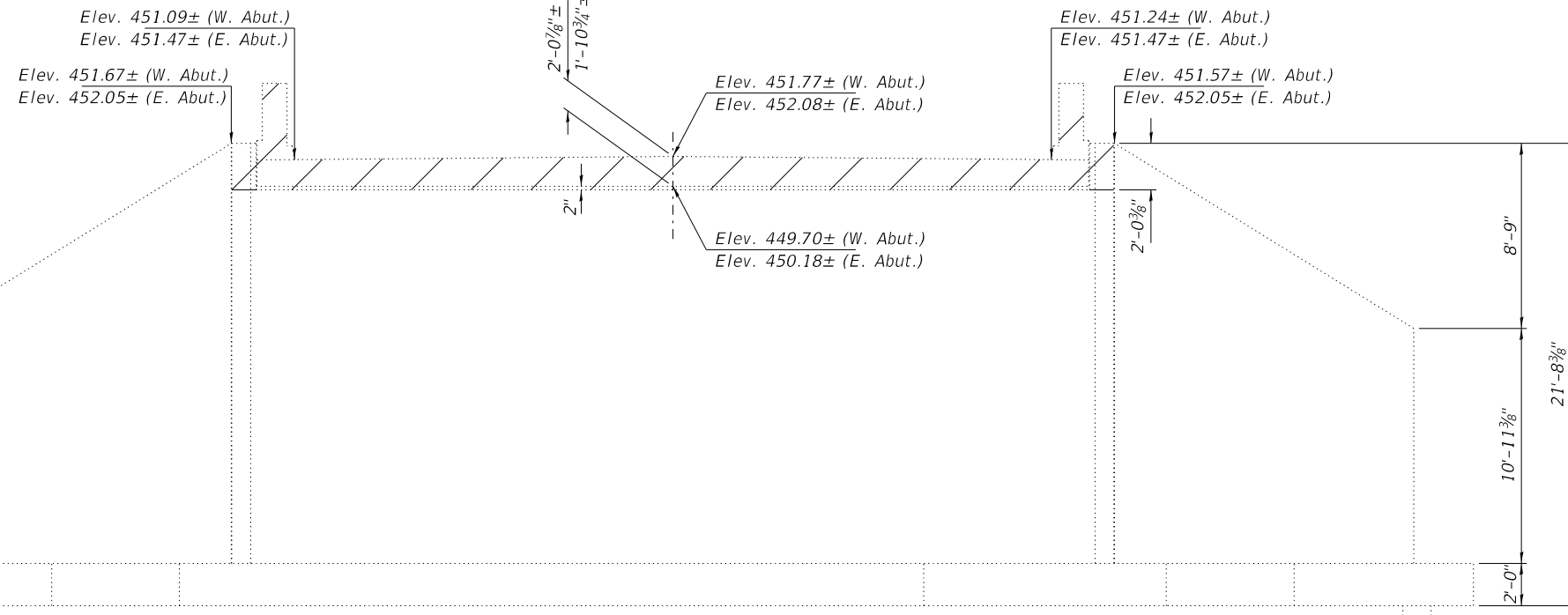
SECTION A-A



CORNER DETAIL
(Typ. all corners)

See Corner Detail

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 reinforcement is damaged, it shall be replaced, at the Contractor's expense. Replacement bars shall be drilled and grouted as detailed in notes below.
 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. 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 included in the contract unit price Removal of Existing Superstructure.
 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.
 *x(E) and x1(E) bars shall be drilled and set according to Article 509.06. Bars shall be set in 1"Ø holes and filled with approved epoxy grout.
 The Contractor shall remove all unsound concrete in the abutment corners as approved by the Engineer. Cost included with Removal of Existing Superstructure



ELEVATION
(Looking East)

Hatched area indicates Removal of Existing Superstructure

BILL OF MATERIAL - 2 ABUTS.

Item	Unit	Quantity
Removal of Existing Superstructure	L. Sum	1

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

Bridge Foundation Boring Log

Project: H-18148 Bridge Grassy Road over Little Wolf Creek Date: 7/9/2018
 Section: 17-00152-00-BR Station _____ Bored by: B. Schwartz
 Structure: _____ Checked By: T. Holcomb
 County: Williamson

Boring No.:	Station:	Offset:	Elevation	N	Qu	w	Surface Water Elev.	Elevation	N	Qu	w
1											
			99.4	0							
			97.9								
			93.4								
			78.4								
			75.9								
			65.9								
			59.9								
			55.9								
			55.4								
			44.0								

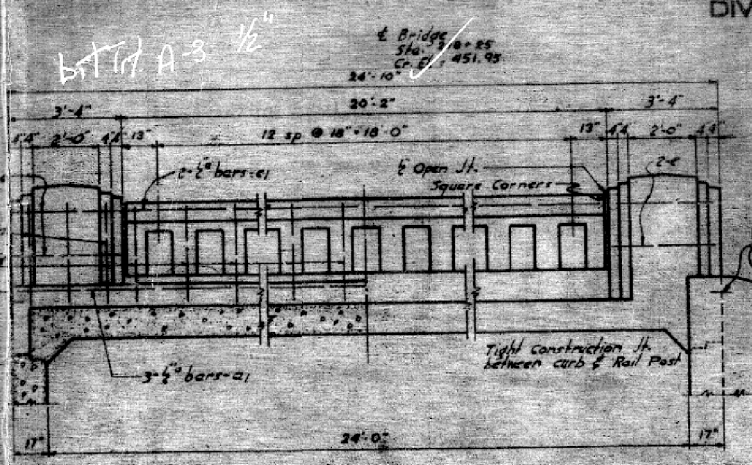
N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
 Qu-Unconfined Compressive Strength in tons/sq.ft.
 w-Water Content-percentage of oven dry weight-%
 B = Bulge Failure
 S = Shear Failure
 E = Estimated Value
 P = Penetrometer

BORING

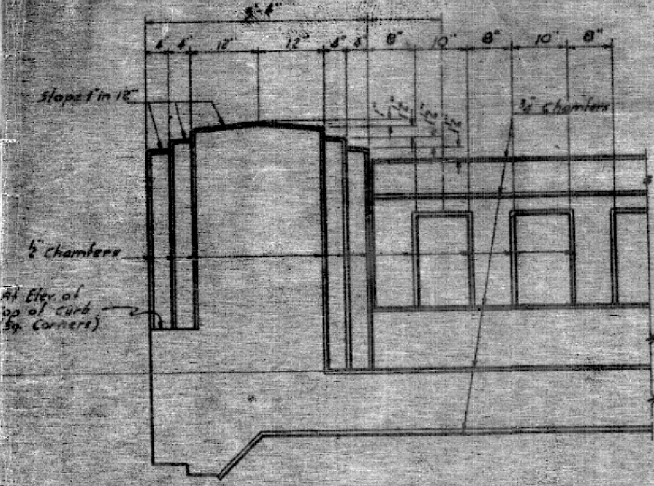
DATE	BY	CHKD	APP'D	SHEET NO.
9/11	SEB	Williamson	9	1
PROJECT NO.	SECTION	DATE		

Built

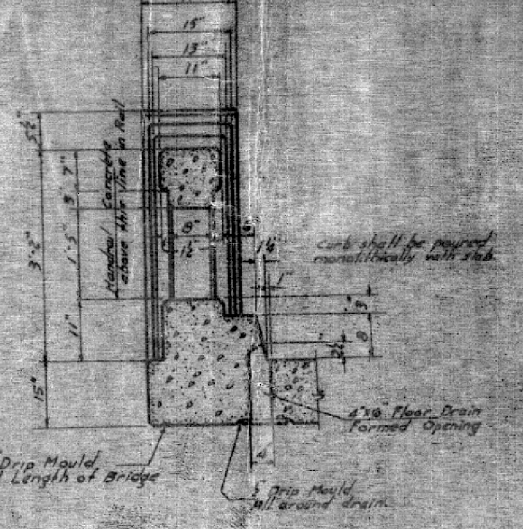
RM 2-33E IN ROOT OF 20" HACK STRIP
185' LT. STA. 217+75 EL. 443.29
NO EXISTING BRIDGE



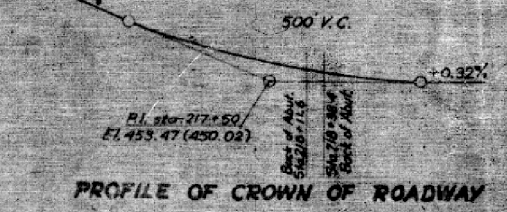
HALF CROSS SECTION AT CURB HALF ELEVATION



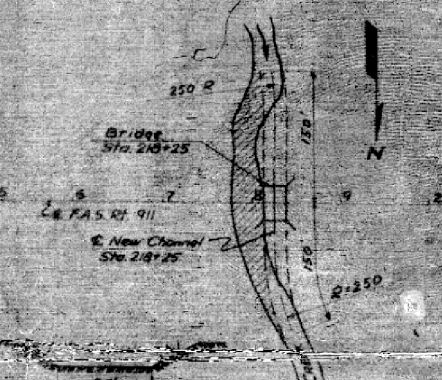
OUTSIDE ELEVATION OF RAIL



SECTION THRU RAIL



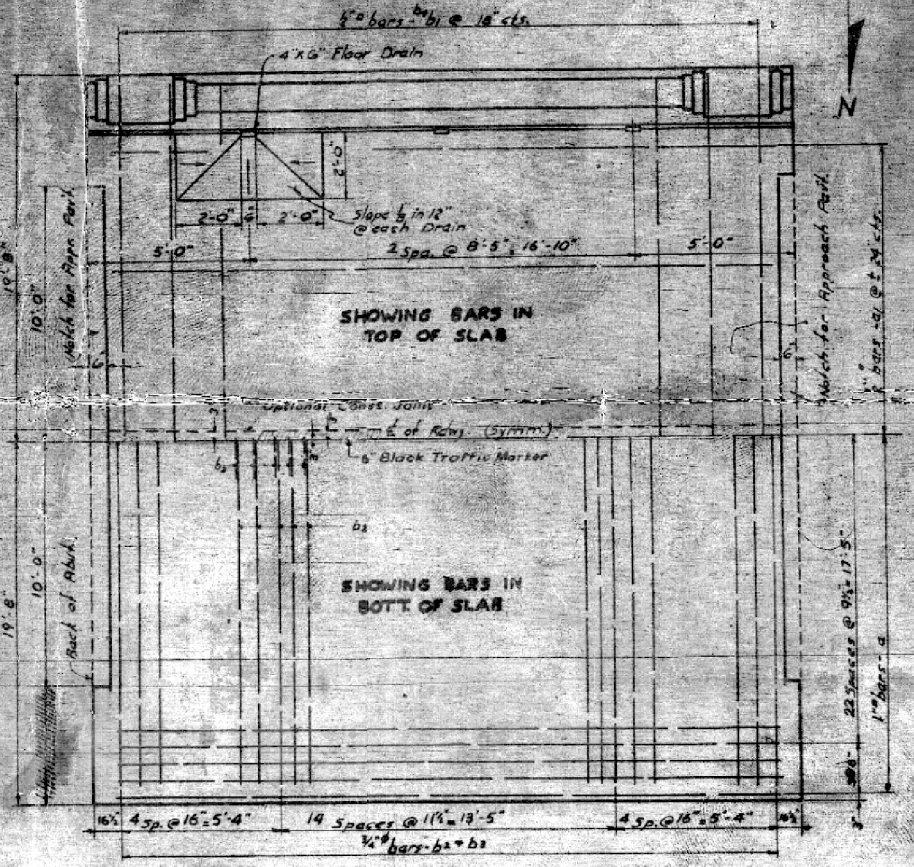
PROFILE OF CROWN OF ROADWAY



CROSS SECTION OF NEW CHANNEL

Contractor for Sec 34-B shall make slight change 150' RT + 150' LT of Sta 218+25. Excavated material to be used in filling hatched portion of adjacent road to level of adjacent ground and in road embankment as directed by the Engineer.
Channel Excavation 1900 cu yds

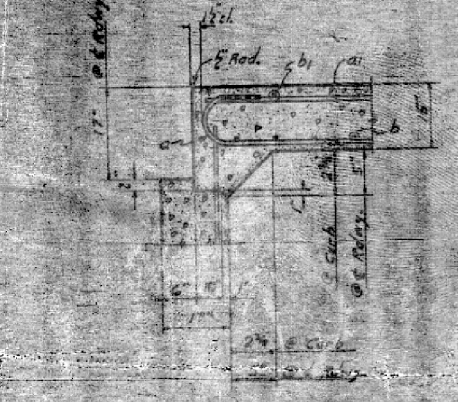
DETAILS OF CHANNEL CHANGE



SHOWING BARS IN TOP OF SLAB

SHOWING BARS IN BOTT OF SLAB

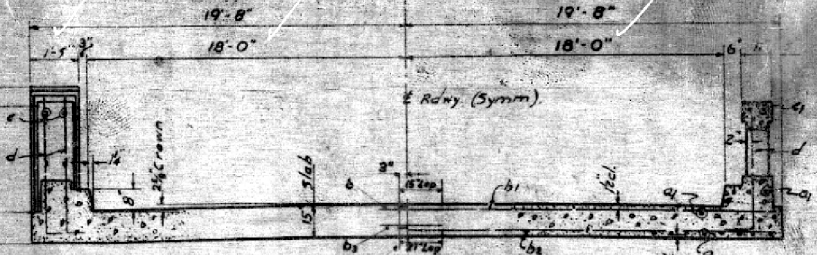
PLAN



SECTION THRU TOP OF ABUTMENTS

DEAD LOAD DEFLECTION DIAGRAM

Add Dead Load Deflection to camber provided by crane elevations shown.



CROSS SECTION

H15 LOADING

BAR	NO.	SIZE	LENGTH
a	51	1/2"	24'-8"
b	24	3/4"	25'-5"
c	23	3/4"	21'-6"
d	17	3/4"	20'-8"
e	2	1/2"	5'-0"
f	1	3/4"	3'-0"
g	1	1/2"	20'-0"
Concrete		Co. Yds.	4.0
Class X Concrete		Co. Yds.	50.9
Reinforcement Bars		Lbs.	7750
Channel Excav.		Cu Yds.	1900

GENERAL NOTES

Class X Concrete shall be used throughout except as noted.
Mandrel concrete shall be used in posts and handrails.
Formwork shall be finished according to Art. 11.6.1 of the Standard Specs.
Bridge camber is indicated by the crane elevations shown.
The roadway slab and curb shall be poured in one continuous operation between the outer edge of the slab and the optional construction joint shown. No additional construction joints will be allowed.
Mandrel shall not be poured until after the falsework has been removed.
Preplaced joint filler shall conform to Art. 11.6.7 of the Standard Specs.
The Contractor shall drive one Test Pile as directed by the Engineer before ordering the remainder of the piles.

LITTLE WOLF CREEK BRIDGE
PROJECT 78-A(1)
F.A.S. RT. 911 (SA RT. 25) SEC. 34 B
WILLIAMSON CO.
STA. 218 + 25

STANDARD 1962 SH. 1 of 2

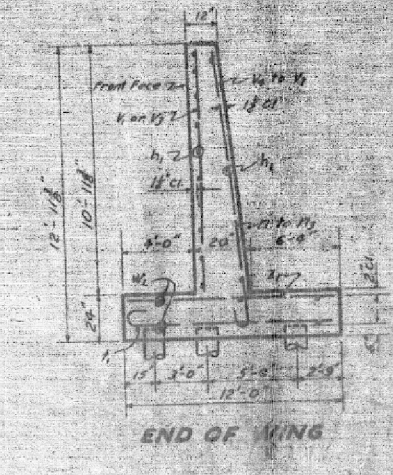
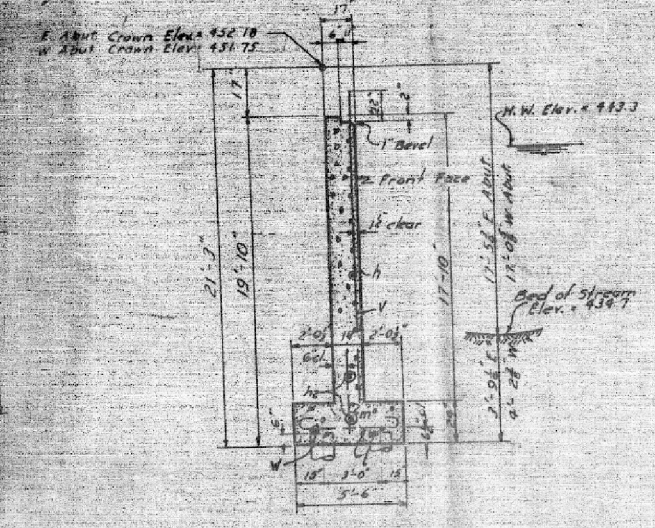
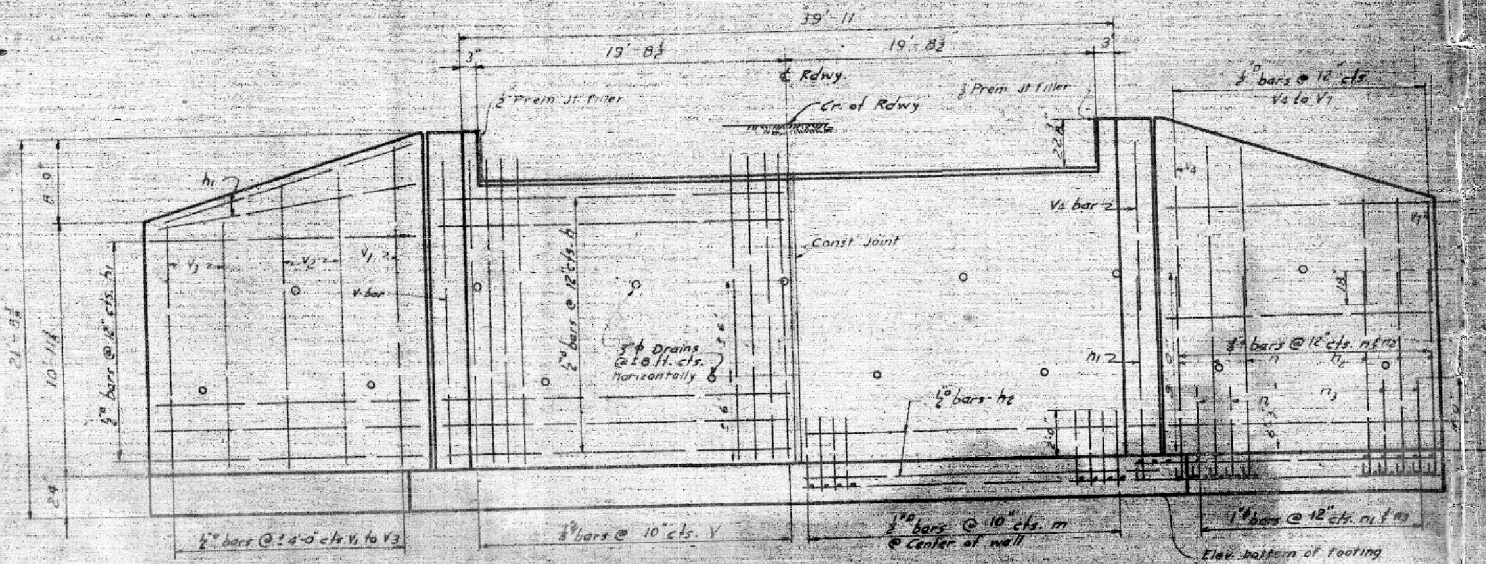
STANDARD	COMPUTED	EXAMINED
	CHECKED	5-25-1942
	DRAWN	<i>H. Little</i>
	CHECKED	<i>H. Little</i>
SPECIAL	ASSEMBLED	<i>R.L. Spout</i>
	CHECKED	<i>C.W. Johnson</i>

APPROVED	<i>N.W. Cole</i>
DESIGNED	<i>H.F. Curlew</i>
CHECKED	<i>H.F. Curlew</i>
DRAWN	<i>H.F. Curlew</i>
ASSEMBLED	<i>R.L. Spout</i>
CHECKED	<i>C.W. Johnson</i>

WATERWAY DATA
Drainage Area 1680 Acres
Character Hilly
Opening Req'd for "C" = 0.8 (Talbot) 210 Sq. Ft.
Proposed Bridge Opening 206 Sq. Ft.

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

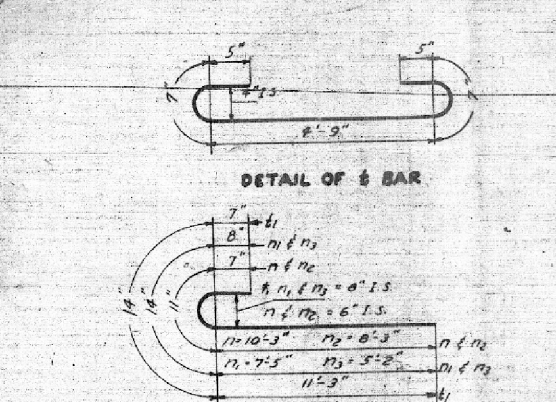
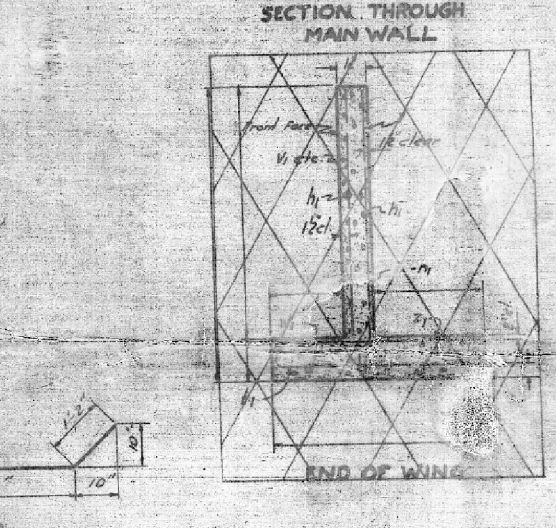
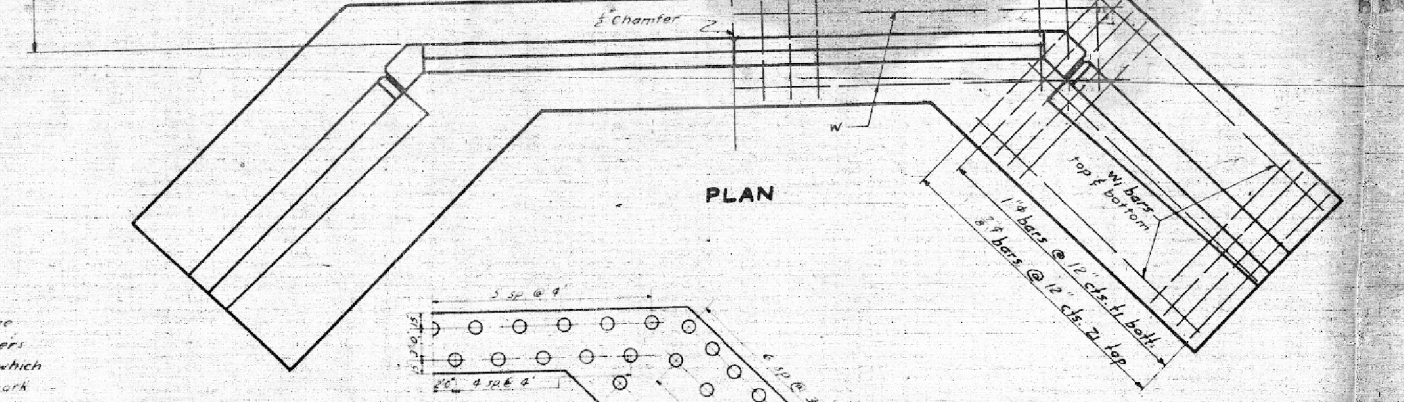
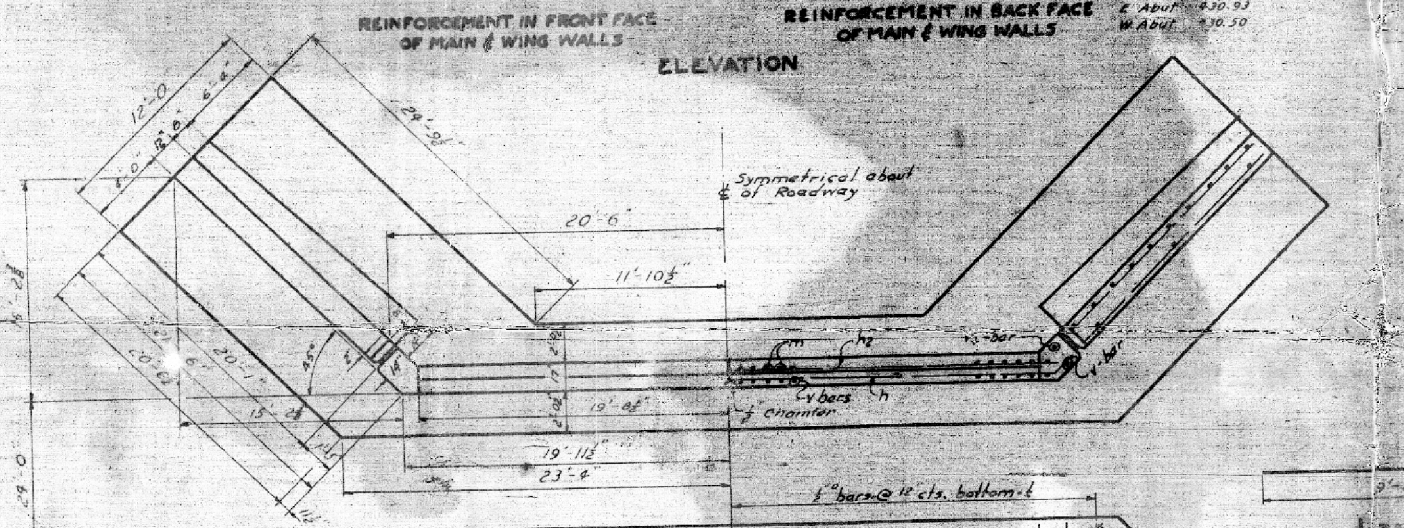
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 911	34-B	Williamson	9	8
FOR ROAD DIST. NO. 7	ILLINOIS	FOR STRUCTURE		



BORING DATA

EL 435.9	Sand
425.9	Rock
STA 217+90 on E	
EL 428.2	Loam
426.2	Sand
420.7	Rock
STA 218+09-2011 of E	
EL 430.7	Sand
421.6	R
STA 218+13 on E	
EL 441.6	Loam
435.6	Sand
429.7	Rock
STA 218+14-23 Rt of E	
EL 442.2	Loam
436.2	Sand
421.4	Rock
STA 218+37-20 Lt. of E	
EL 441.0	Loam
435.9	Sand & Clay
421.2	Rock
STA 218+37-20 Rt. of E	

Boring Data are shown on the plans only as a guide to bidders in estimating soil conditions which may be encountered in the work



BILL OF MATERIAL - TWO ABUTMENTS

BAR	NO.	SIZE	LENGTH	BAR	NO.	SIZE	LENGTH
h	72	1/2"	21'-0"	m	98	1/2"	3'-9"
h1	60	1/2"	19'-6"	n	40	1/2"	17'-9"
h2	8	1/2"	20'-3"	ny	44	1/2"	9'-3"
				nz	60	1/2"	9'-9"
v	102	3/8"	18'-9"	l	90	3/8"	6'-9"
v1	4	1/2"	18'-9"	l1	62	1/2"	13'-0"
v2	8	1/2"	75'-3"	ny	36	1/2"	7'-0"
v3	8	1/2"	11'-9"	nz	62	1/2"	11'-6"
v4	20	3/8"	10'-6"	w	1/2	1/2"	23'-0"
v5	16	3/8"	8'-5"	w1	22	1/2"	20'-6"
v6	24	3/8"	8'-9"	w2	22	1/2"	20'-6"
v7	24	3/8"	6'-3"				

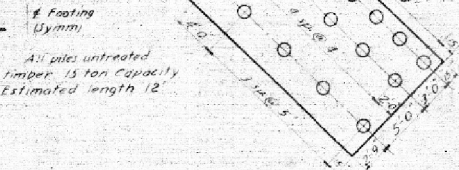
Class X Concrete Cu. Yds. 138.7
Reinforcement Bars Lbs. 16830
Test Piles Ea. one
Untreated Piles - Est. 12 long Lin. Ft. 1320

NOTE
No Embankment shall be placed until the entire structure is completed. Embankments shall be carried up simultaneously and at no time shall the embankment of one abutment be more than 4 ft. higher than the other.

STANDARD	COMPUTED
	CHECKED
	DRAWN
	CHECKED
SPECIAL	ASSEMBLED
	CHECKED

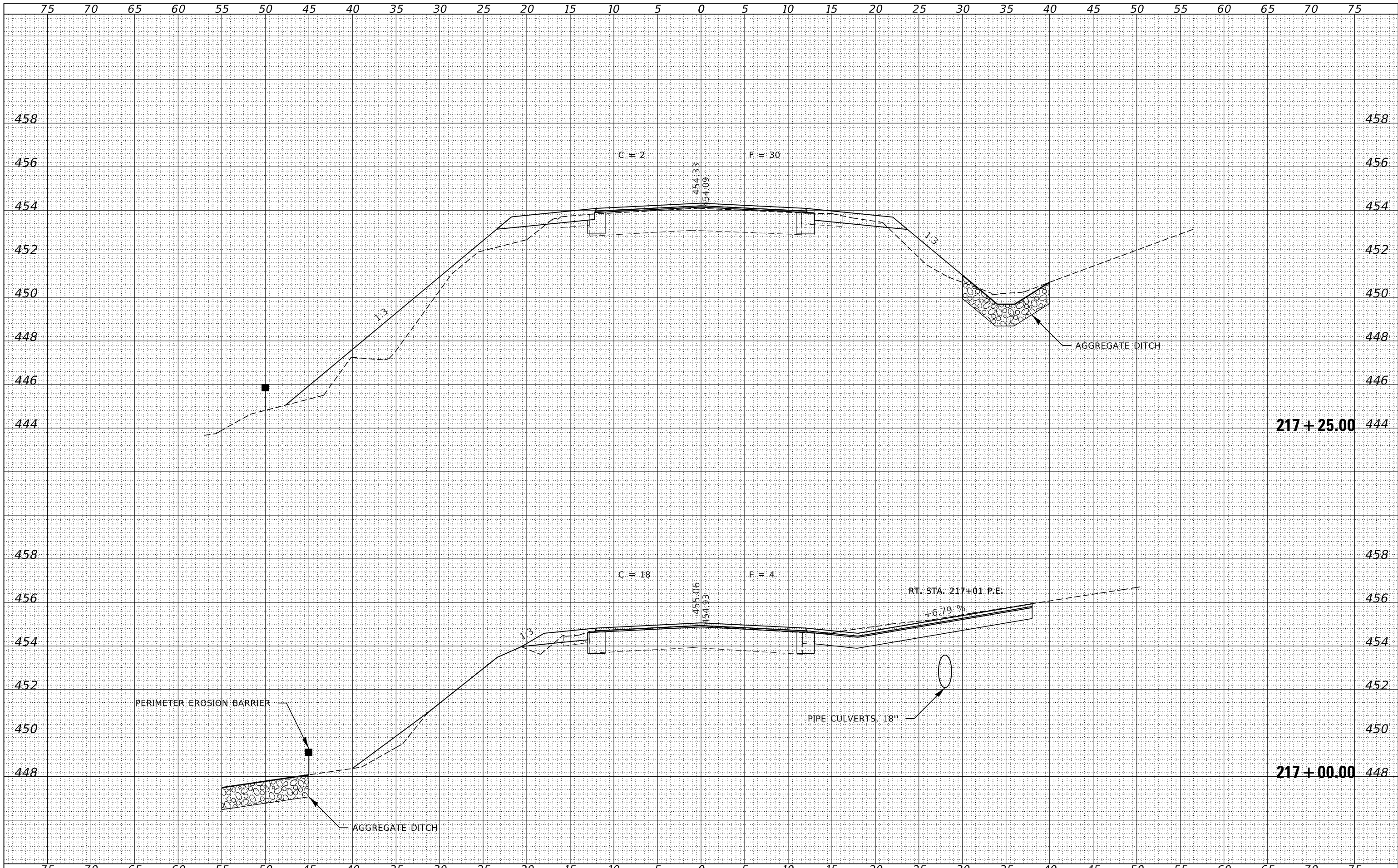
EXAMINED 5-25-1942
PASSED
APPROVED

PILE LAYOUT



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

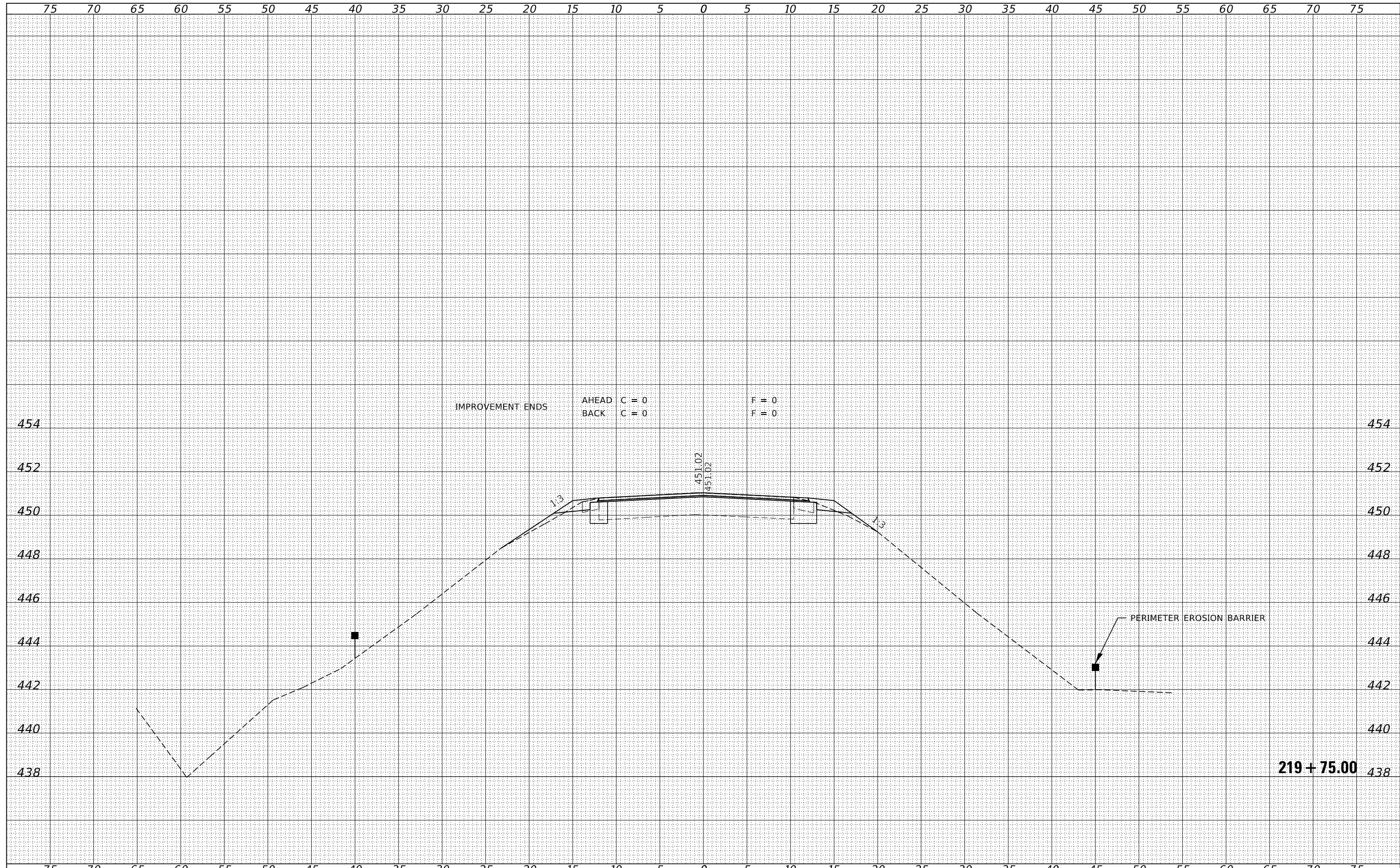
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.009958		DRAWN - M.M.P.	REVISD -		1900	17-00152-00-BR	WILLIAMSON	31	20			
PLOT SCALE = \$SCALES		CHECKED - S.W.M.	REVISD -		GRASSY ROAD / C.H. 25			CONTRACT NO. 99620				
PLOT DATE = 3/29/2019		DATE - 03/29/19	REVISD -		SCALE: 5H:2V	SHEET NO. 3 OF 14 SHEETS	STA. 217+00.00 TO STA. 217+25.00	ILLINOIS FED. AID PROJECT 1RCB(895)				

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

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



IMPROVEMENT ENDS

AHEAD C = 0
BACK C = 0

F = 0
F = 0

PERIMETER EROSION BARRIER

219 + 75.00

FILE NAME = 180163-shl-vssheet.dgn	USER NAME = rmosck	DESIGNED - J.V.F.	REVISIONS	STATE OF ILLINOIS WILLIAMSON COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS			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. 184.000958		DRAWN - M.M.P.	REVISIONS		1900	17-00152-00-BR	WILLIAMSON	31	30			
		CHECKED - S.W.M.	REVISIONS		GRASSY ROAD / C.H. 25			CONTRACT NO. 99620				
		DATE - 03/29/19	REVISIONS		SCALE: 5H:2V	SHEET NO. 13 OF 14 SHEETS	STA. 219+75.00 TO STA. 219+75.00	ILLINOIS FED. AID PROJECT 1RCB(895)				

