

01-17-2020 LETTING ITEM 113

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 326 (ESSINGTON RD)
OVER ROCK RUN NORTH
STRUCTURE REPLACEMENT
SECTION 16-00489-00-BR
PROJECT NO. FBG0(207)

WILL COUNTY
CITY OF JOLIET

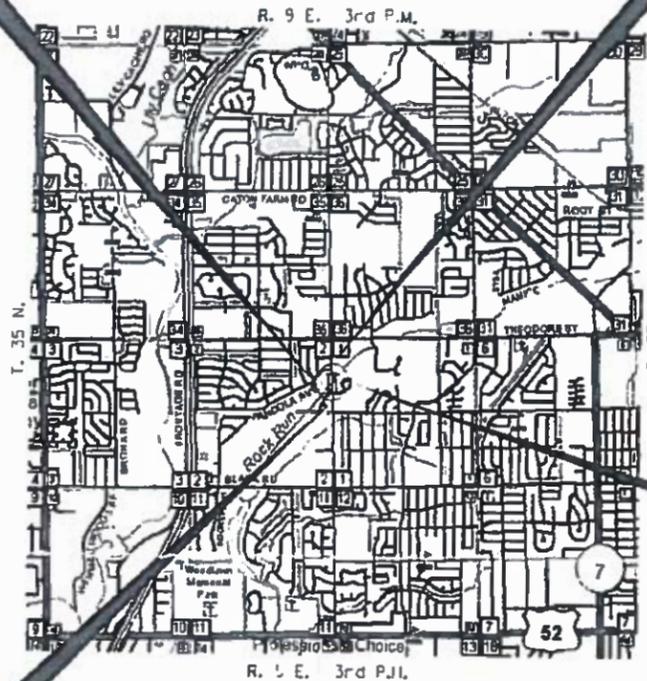
JOB NO. C-91-248-17

FOR INDEX OF SHEETS, AND LIST OF
HIGHWAY STANDARDS, SEE SHEET NO. 2

DESIGN CLASSIFICATION: MINOR ARTERIAL
CURRENT ADT (2016): 21,100
DESIGN ADT (2040): 28,300
DESIGN SPEED: 40 MPH

EXISTING STRUCTURE SN 099-3128
TWO SPAN PCC DECK BEAM SUPERSTRUCTURE
ON CONCRETE PIER AND CONCRETE CLOSED
ABUTMENTS. THE STRUCTURE IS 66'-0" O. TO O.
OF DECK, 72'-7" BK. TO BK. OF ABUTMENTS, AND
IS SKEWED 45° RT. AH.

END IMPROVEMENT
FAU 326 (ESSINGTON RD)
STA 49+90



TROY TOWNSHIP
BEGIN IMPROVEMENT
FAU 326 (ESSINGTON RD)
STA 46+00

LOCATION MAP
NOT TO SCALE

PROPOSED STRUCTURE SN 099-6049
THREE SPAN REINFORCED CONCRETE SLAB
SUPERSTRUCTURE ON CONCRETE INTEGRAL
ABUTMENTS AND PILE BENT PIERS,
99'-0" BK. TO BK., 79'-2" O. TO O. DECK,
45° RT. AH. SKEW.

LOCATION MAP
NOT TO SCALE

PROJECT LENGTH (GROSS /NET)
GROSS LENGTH = 390 FT. = 0.07 MILE
NET LENGTH = 390 FT. = 0.07 MILE

SINCE 1943
Hutchison Engineering, Inc.
JACKSONVILLE • PEGRIA • SHOREWOOD • MOLINE
Illinois Professional Design Firm No. 184-000825

ANTHONY W. MILLER
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
PROJECT ENGINEER
DATE 09-23-2019
LICENSE EXPIRES 11-30-2019

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	16-00489-00-BR	WILL	52	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 61G21		



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.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: ANTHONY MILLER, P.E.
PROJECT MANAGER: DAN MESTELLE, P.E.

CONTRACT NO. 61G21

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
APPROVED 10/2 2019
[Signature]
CITY OF JOLIET, DIRECTOR OF PUBLIC WORKS
PASSED OCT. 15 2019
[Signature]
DISTRICT ONE ENGINEER OF
LOCAL ROADS & STREETS
RELEASED FOR
LIMITED REVIEW OCTOBER 15, 2019
[Signature]
REGIONAL ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E. SCHAUMBURG, IL

GENERAL NOTES

THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE IDOT HIGHWAY STANDARD AS INDICATED BY THE VERSION SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY.

ALL EXISTING DRAINAGE STRUCTURES NOT BEING REMOVED BY THE CONTRACTOR THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED.

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE CITY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, CITY, ITS OFFICERS AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLES 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR MAY BE REQUIRED TO CONDUCT SOME OF HIS/HER GRADING AND TRENCHING OPERATIONS AROUND TRANSMISSION POLES AND UNDER TRANSMISSION LINES.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE TO STORM SEWER SYSTEM FROM ALL OPEN TRAFFIC LANES DURING STAGE CONSTRUCTION.

THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. THOSE SEEKING HISTORIC AS-BUILT OR OTHER RECORD PLANS SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT:

MARK SEFCIK
CITY OF JOLIET
(815) 724-4210

MEMBERS OF J.U.L.I.E. KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

1. COMED
2. AT&T
3. COMCAST CABLE
4. NICOR GAS
5. CITY OF JOLIET

THE CONTRACTOR SHALL CONTACT J.U.L.I.E. AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN ASSUMED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS.....	2.05 TONS/CU YD
NITROGEN FERTILIZER NUTRIENT.....	90 LBS/ACRE (SEEDING)
PHOSPHORUS FERTILIZER NUTRIENT.....	90 LBS/ACRE (SEEDING)
POTASSIUM FERTILIZER NUTRIENT.....	90 LBS/ACRE (SEEDING)

ALIGNMENT COORDINATES

STA. 43+00.00	P.O.T.	N: 1,777,024.243	E: 1,031,443.794
STA. 53+07.99	P.O.T.	N: 1,778,031.775	E: 1,031,413.342

HORIZONTAL DATUM: IL SPC 83 (2011 ADJ) - EAST ZONE
VERTICAL DATUM: NAVD 88 GEO ID 12A

HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS, 15" THRU 84" DIA.
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAIN
602401-06	PRECAST MANHOLE TYPE A 4' DIAMETER
602402-02	PRECAST MANHOLE TYPE A 5' DIAMETER
602411-08	PRECAST MANHOLE TYPE A 7' DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS TYPE 1
604006-05	FRAME AND GRATE TYPE 3
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
643001-02	SAND MODULE IMPACT ATTENUATORS
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
812001-01	RACEWAY EMBEDDED IN STRUCTURE
814001-03	HANDHOLES
821101-02	LUMINAIRE WIRING IN POLE
836001-04	LIGHT POLE FOUNDATION

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, LIST OF STANDARDS, GENERAL NOTES, & LEGEND
3-10	SUMMARY OF QUANTITIES
11-12	TYPICAL SECTIONS
13-14	SCHEDULE OF QUANTITIES
15	REMOVAL PLAN
16	PLAN AND PROFILE
17-20	MAINTENANCE OF TRAFFIC PLAN
21-22	EROSION CONTROL PLANS
23	DRAINAGE PLAN
24-25	PAVEMENT MARKING PLANS
26	ELECTRICAL PLAN
27-47	STRUCTURE PLANS
48-50	DISTRICT 1 DETAILS
51-52	CROSS SECTIONS

PROJECT BENCHMARKS

BM #1: CHISLED "□" ON CONCRETE LIGHT POLE BASE
STATION 44+36, 30' RT, ELEVATION = 581.15

BM #2: CHISLED "□" ON SE WINGWALL OF BRIDGE
STATION 48+12, 35' RT, ELEVATION = 582.12

BM #3: CHISLED "□" ON CONC. LIGHT POLE BASE
STATION 51+24, 31' LT, ELEVATION = 583.09

COMMITMENTS

PERIMETER EROSION BARRIER AND HIGH VISIBILITY FENCE WILL BE INSTALLED ALONG THE WEST PROPERTY LINE TO KEEP CONSTRUCTION ACTIVITY FROM INFRINGING ON THE FOREST PRESERVE.

THE IDOT BRIDGE OFFICE SHALL BE NOTIFIED WHEN TRAFFIC IS SHIFTED INTO STAGE 1.

MODEL: \$MODELNAME
FILE NAME: V:\177 - Essington Rd over Rock Run North - Phase II (WJ)\CADD\CADD Sheets\1477-shr-GenNotes.dgn

USER NAME = JWWhite	DESIGNED - LDZ	REVISED -
	DRAWN - JCW	REVISED -
PLOT SCALE = 2.0000' / in.	CHECKED - AWM	REVISED -
PLOT DATE = 11/11/2019	DATE - 10-23-19	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ESSINGTON ROAD
LIST OF STANDARDS, GENERAL NOTES & LEGEND**

SCALE: N/A SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	16-00489-00-BR	WILL	52	2
CONTRACT NO. 61G21				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY	TRAINEES	BRIDGE
				0004	0042	0010 099-6049
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	112	112		
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	78	78		
20200100	EARTH EXCAVATION	CU YD	528	528		
20300100	CHANNEL EXCAVATION	CU YD	535			535
20800150	TRENCH BACKFILL	CU YD	409	409		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	527	527		
25000210	SEEDING, CLASS 2A	ACRE	0.1	0.1		
25000310	SEEDING, CLASS 4	ACRE	0.1	0.1		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	8	8		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	8	8		
25100630	EROSION CONTROL BLANKET	SO YD	524	524		
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	11	11		
28000400	PERIMETER EROSION BARRIER	FOOT	675	675		
28000510	INLET FILTERS	EACH	6	6		

• SEE SPECIAL PROVISIONS
 ▲ SPECIALTY ITEMS

MODEL: S:\MODEL\NAMES
 FILE NAME: V:\477 - Essington Rd over Rect Run North - Phase II (WillieCADD\CADD Sheets\4477-shi-500-1.dgn

USER NAME = JWhite	DESIGNED - TCO	REVISED -
	DRAWN - JCW	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - AWM	REVISED -
PLOT DATE = 11/1/2019	DATE - 11-1-19	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ESSINGTON ROAD SUMMARY OF QUANTITIES	
SCALE: N/A	SHEET 1 OF 8 SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	16-00489-00-BR	WILL	52	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61G21	

MODEL: SMODELNAME\$
 FILE NAME: V:\477 - Essington Rd over Rock Run North - Phase II (WILLIAMS)CADD Sheets\477-shi-500-1.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY	TRAINEES	BRIDGE
				0004	0042	0010
						099-6049
28100107	STONE RIPRAP, CLASS A4	SO YD	1040			1040
28200200	FILTER FABRIC	SO YD	1040			1040
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SO YD	1056	1056		
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	20	20		
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3201	3201		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1601	1601		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	635	635		
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	109	109		
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SO YD	459	459		
42001300	PROTECTIVE COAT	SO YD	590	590		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	3779	3779		
44000100	PAVEMENT REMOVAL	SO YD	1829	1829		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	624	624		
44000600	SIDEWALK REMOVAL	SO FT	3719	3719		

• SEE SPECIAL PROVISIONS
 ▲ SPECIALTY ITEMS

USER NAME = JWhite	DESIGNED - TCQ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ESSINGTON ROAD SUMMARY OF QUANTITIES			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100.0000' / in.	DRAWN - JCW	REVISED -		SCALE: N/A	SHEET 2 OF 8 SHEETS	STA. N/A TO STA. N/A	326	16-00489-00-BR	WILL	52	4
PLOT DATE = 11/1/2019	CHECKED - AWM	REVISED -					CONTRACT NO. 61G21				
	DATE - 11-1-19	REVISED -					ILLINOIS FED. AID PROJECT				

MODEL: \$HODRUMAMES
 FILE NAME: V:\4477 - Essington Rd over Rock Run North - Phase II (Willis)CADD\CADD Sheets\4477-sh-900-1.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY	TRAININGS	BRIDGE
				0004	0042	0010 099-6049
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SO YD	33	33		
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1			1
50200100	STRUCTURE EXCAVATION	CU YD	350			350
50200300	COFFERDAM EXCAVATION	CU YD	235			235
50300225	CONCRETE STRUCTURES	CU YD	348.8			348.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	453			453
50300260	BRIDGE DECK GROOVING	SO YD	990			990
50300280	CONCRETE ENCASEMENT	CU YD	34.4			34.4
50300300	PROTECTIVE COAT	SO YD	1550			1550
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	224.8			224.8
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	289320			289320
50800515	BAR SPLICERS	EACH	660			660
△ 50901720	BICYCLE RAILING	FOOT	309			309
△ 50901750	PARAPET RAILING	FOOT	306			306

* SEE SPECIAL PROVISIONS
 △ SPECIALTY ITEMS

USER NAME = JWhite	DESIGNED - TCQ	REVISED -
DRAWN - ICW	REVISIONS -	
PLOT SCALE = 100.0000' / in.	CHECKED - AWM	REVISED -
PLOT DATE = 11/1/2019	DATE - 11-1-19	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ESSINGTON ROAD		F.A.U. RTE. 326	SECTION 16-00489-00-BR	COUNTY WILL	TOTAL SHEETS 52	SHEET NO. 5
SCALE: N/A	SHEET 3 OF 8 SHEETS	STA. N/A	TO STA. N/A	CONTRACT NO. 61G21		

ILLINOIS	FED. AID PROJECT
----------	------------------

CONSTRUCTION TYPE CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY 0004	TRAINEES 0042	BRIDGE 0010 099-6049
51201400	FURNISHING STEEL PILES HP10X42	FOOT	930			930
51500100	NAME PLATES	EACH	1			1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SO FT	270			270
54213465	END SECTIONS 30"	EACH	1	1		
54213489	END SECTIONS 54"	EACH	1	1		
55100500	STORM SEWER REMOVAL 12"	FOOT	121	121		
55101400	STORM SEWER REMOVAL 30"	FOOT	107	107		
55101800	STORM SEWER REMOVAL 42"	FOOT	31	31		
55102000	STORM SEWER REMOVAL 54"	FOOT	84	84		
▲ • 56400300	FIRE HYDRANTS TO BE ADJUSTED	EACH	1	1		
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	190			190
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	105			105
60218500	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 3 FRAME AND GRATE	EACH	1	1		
60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		

- SEE SPECIAL PROVISIONS
- ▲ SPECIALTY ITEMS

MODEL: s:\MODEL\MANES
 FILE NAME: V-1477 - Essington Rd over Rock Run North - Phase II (W\B\CADD\CADD Sheets\477-shc-500-1.dgn)

USER NAME = JWhite	DESIGNED - TCQ	REVISED -
DRAWN - JCW	CHECKED - AWM	REVISED -
PLOT SCALE = 100.0000' / in.	DATE - 11-1-19	REVISED -
PLOT DATE = 11/1/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ESSINGTON ROAD
SUMMARY OF QUANTITIES

SCALE: N/A SHEET 4 OF 8 SHEETS STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	16-00489-00-BR	WILL	52	6
			CONTRACT NO. 61G21	
ILLINOIS FED. AID PROJECT				

MODEL: S:\MODELS\AMES
 FILE NAME: V:\1477 - Essington Rd over Rock Run North - Phase II (WILLIAMS)\CADD\CADD Sheets\1477-shs500-1.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE		
				ROADWAY	TRAINEES	BRIDGE
				0004	0042	0010
						099-6049
Δ 81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	304	304		
Δ 81400100	HANDHOLE	EACH	4	4		
Δ 81702415	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 6	FOOT	629	629		
Δ 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	11	11		
Δ 84200804	REMOVAL OF POLE FOUNDATION	EACH	2	2		
Δ 84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	2	2		
Δ 89502380	REMOVE EXISTING HANDHOLE	EACH	2	2		
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	5667	5667		
• X0900075	COFFERDAM (TYPE 1) (IN-STREAM/WETLAND WORK)	EACH	4			4
Δ • X2200003	FENCE (SPECIAL)	FOOT	423	423		
• X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1		
Δ • X8410102	TEMPORARY LIGHTING SYSTEM	L SUM	1	1		
• Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
• Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	4			4

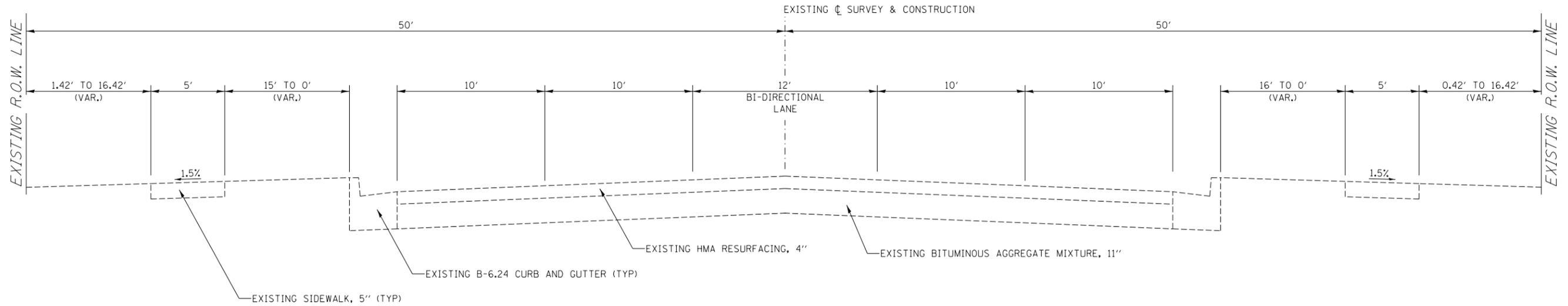
• SEE SPECIAL PROVISIONS
 Δ SPECIALTY ITEMS

USER NAME = JWhite	DESIGNED - TCQ	REVISED -
DRAWN - JCW	CHECKED - AWM	REVISED -
PLLOT SCALE = 100.0000' / in.	DATE - 11-1-19	REVISED -
PLLOT DATE = 11/1/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

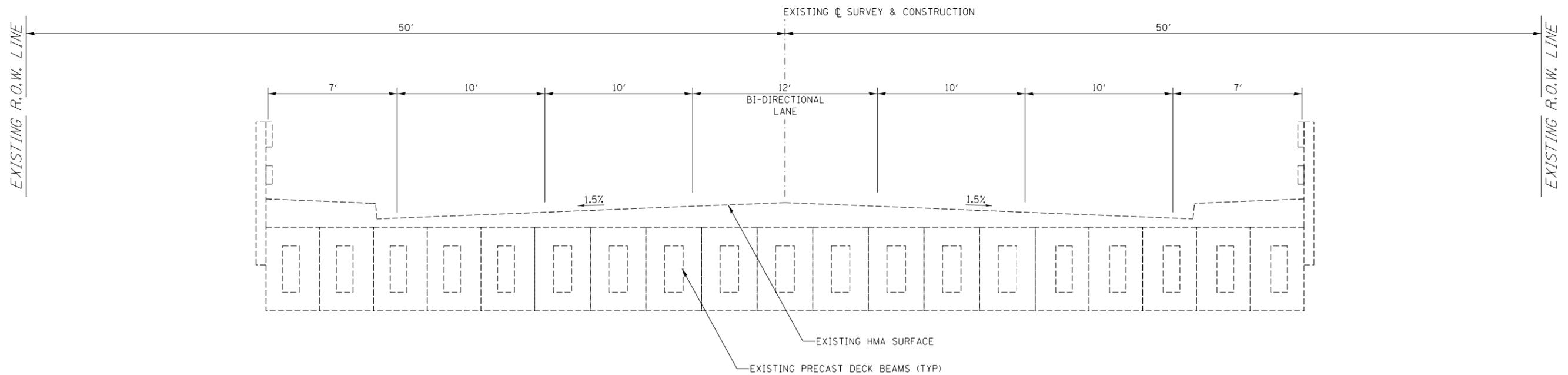
ESSINGTON ROAD SUMMARY OF QUANTITIES			
SCALE: N/A	SHEET 7	OF 8 SHEETS	STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	16-00489-00-BR	WILL	52	9
CONTRACT NO. 61G21				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION

STA. 43+00.00 TO STA. 47+77.42 (ESSINGTON ROAD)
 STA. 48+48.55 TO STA. 53+00.00 (ESSINGTON ROAD)



EXISTING TYPICAL SECTION

STA. 47+77.42 TO STA. 48+48.55 (ESSINGTON ROAD)

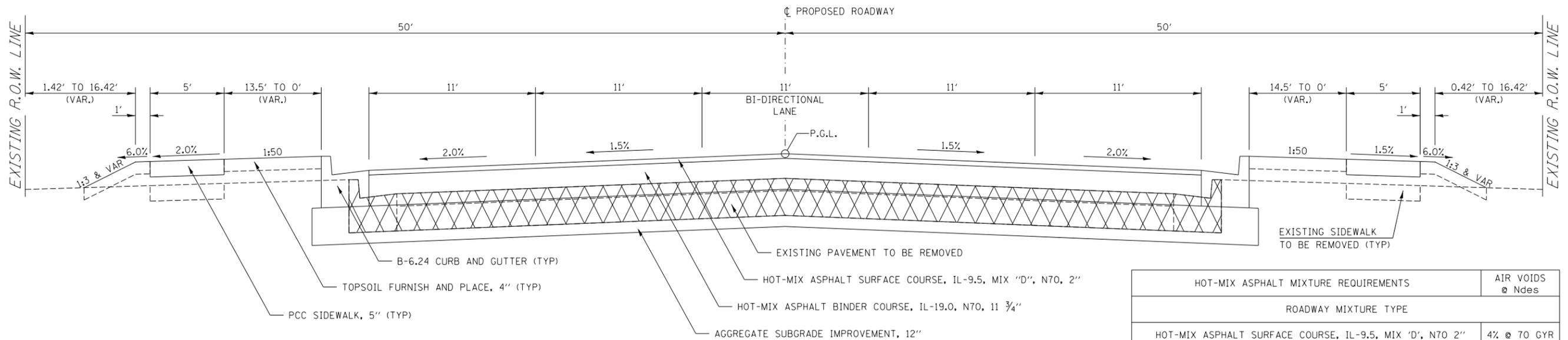
MODEL: \\MODELS\MJMS
 FILE NAME: 0318177 - Essington Rd over Rock Run North - Phase II (WILL)CADD\CADD Sheets\4477-shc-sytle-1.dgn

USER NAME = jwhite	DESIGNED - LDZ	REVISED -
	DRAWN - JCW	REVISED -
PLOT SCALE = 16.0000' / in.	CHECKED - AWM	REVISED -
PLOT DATE = 9/23/2019	DATE - 9-6-19	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ESSINGTON RD EXISTING TYPICAL SECTIONS			
SCALE: N/A	SHEET 1 OF 2 SHEETS	STA. N/A	TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	16-00489-00-BR	WILL	52	11
CONTRACT NO. 61G21				
ILLINOIS FED. AID PROJECT				



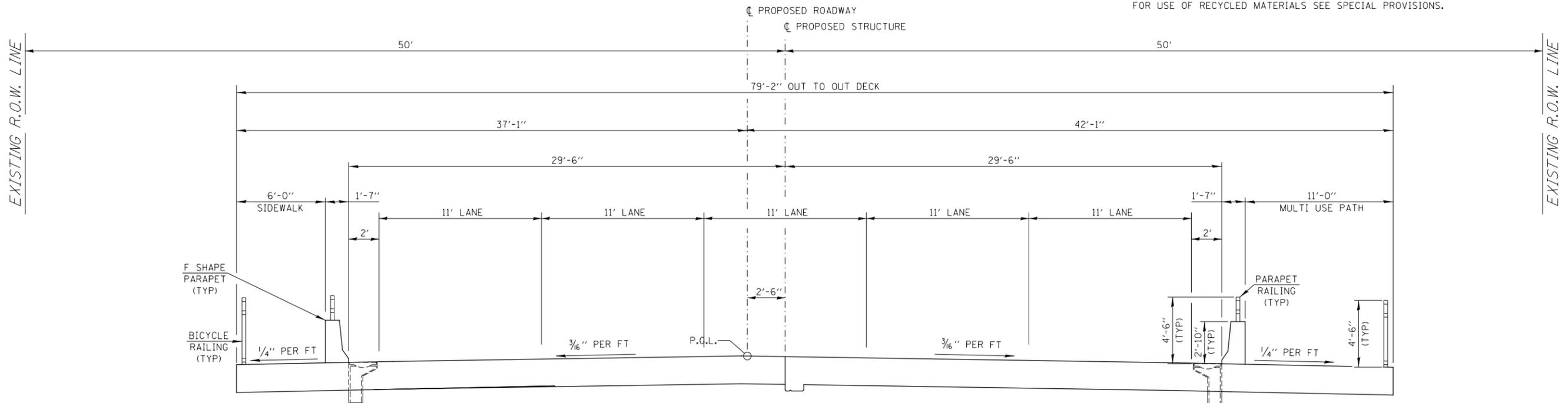
NOTE:
HOT-MIX ASPHALT - LONGITUDINAL JOINT SEALANT SHALL BE APPLIED AT ALL CENTERLINE AND LANE-TO-LANE JOINTS UNDER BOTH THE SURFACE LIFT AND TOP BINDER LIFT.

PROPOSED ROADWAY TYPICAL SECTION

STA. 46+00.00 TO STA. 47+30.67 (ESSINGTON ROAD)
STA. 48+95.33 TO STA. 49+90.00 (ESSINGTON ROAD)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	AIR VOIDS @ Ndes
ROADWAY MIXTURE TYPE	
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX 'D', N70 2"	4% @ 70 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 1 3/4"	4% @ 70 GYR
CLASS D PATCH (HMA BINDER IL-19.0)	4% @ 70 GYR
BRIDGE APPROACH PAVEMENT CONNECTOR MIXES (HMA)	
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX 'D', N70 2"	4% @ 70 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR
TEMPORARY PAVEMENT (VARIABLE DEPTH)	
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX 'D', N70	4% @ 70 GYR

NOTE:
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN. THE "AC TYPE" FOR NON-POLYMERIZED HMA MIXES SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.



PROPOSED TYPICAL SECTION

STA. 47+30.67 TO STA. 48+95.33 (ESSINGTON ROAD)

MODEL: s:\MODEL\MJMS FILE NAME: 031717 - Essington Rd over Rock Run North - Phase II (W)\CADD\CADD_Sheets\4477-shc-splc2.dgn

USER NAME = jwhite	DESIGNED - LDZ	REVISED -
	DRAWN - JCW	REVISED -
PLOT SCALE = 16.0000' / in.	CHECKED - AWM	REVISED -
PLOT DATE = 11/1/2019	DATE - 11-1-19	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ESSINGTON RD PROPOSED TYPICAL SECTIONS			
SCALE: N/A	SHEET 2	OF 2 SHEETS	STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	16-00489-00-BR	WILL	52	12
CONTRACT NO. 61G21				
ILLINOIS FED. AID PROJECT				

EARTHWORK SCHEDULE

STATION TO STATION	20200100	20300100	21101615	50200100	50200300	FILL	WASTE (SHORTAGE)
	EARTH EXCAVATION	CHANNEL EXCAVATION	TOPSOIL FURNISH AND PLACE, 4"	STRUCTURE EXCAVATION	COFFERDAM EXCAVATION		
	CU YD		SO YD	CU YD			
46+00.00 46+50.00	116.7		41.6			16.7	82.5
46+00.00 47+25.70			109.7				
46+20.34 48+13.50			159.6				
46+50.00 47+00.00	90.7					32.4	44.7
46+93.59 49+37.41		535		350	235		952.0
47+00.00 47+26.00	40.4					18.3	16.0
47+26.00 47+50.00	22.2					21.8	(2.9)
47+50.00 48+00.00	8.3					34.3	(27.2)
48+00.00 48+07.00	0.1					0.9	(0.8)
48+12.50 50+20.00			149.3				
48+24.00 48+50.00	1.4					5.8	(4.6)
48+50.00 49+00.00	33.3					28.7	(0.4)
49+00.00 49+04.00	7.3					2.0	4.2
49+04.00 49+50.00	110.7					13.6	80.5
49+04.58 50+20.00			66.4				
49+50.00 49+90.00	96.3					11.9	70.0
TOTAL	527.4	535	526.7	350	235	186.4	1214
USE	528	535	527	350	235	187	1214

*15% SHRINKAGE FACTOR

PORTLAND CEMENT 5" CONCRETE SIDEWALK SCHEDULE

STATION TO STATION	SIDE	42400200	42001300
		5 INCH SIDEWALK SQ FT	PROTECTIVE COAT SQ YD
46+00.00 47+02.12	LT	601.3	66.8
46+00.00 47+69.70	RT	1663.7	184.9
48+57.50 49+90.00	LT	780.3	86.7
49+25.88 50+20.00	RT	733.5	81.5
TOTAL		3778.8	419.9
USE		3779	420

SEEDING SCHEDULE

STATION TO STATION	SIDE	25000210	25000310	25000400	25000600	25100630	28000250
		SEEDING, CLASS 2A ACRE	SEEDING, CLASS 4 ACRE	NITROGEN FERTILIZER NUTRIENT POUND	POTASSIUM FERTILIZER NUTRIENT POUND	EROSION CONTROL BLANKET SQ YD	TEMPORARY EROSION CONTROL SEEDING POUND
46+00.00 46+94.59	LT	0.02		1.4	1.4	72.1	1.5
46+00.00 46+50.00	RT	0.01		0.8	0.8	41.6	0.9
46+20.34 47+79.39	RT	0.03		2.3	2.3	133.0	2.6
46+85.53 47+25.70	LT		0.01			37.6	0.8
47+72.76 48+13.50	RT		0.01			26.6	0.5
48+12.50 48+48.70	LT		0.01			41.2	0.9
48+48.70 49+90.90	LT	0.02		1.8	1.8	94.2	2.0
49+05.30 49+42.33	RT		0.00			23.5	0.5
49+35.41 50+20.00	RT	0.01		1.1	1.1	53.4	1.2
TOTAL		0.08	0.03	7.4	7.4	523.1	10.9
USE		0.1	0.1	8	8	524	11

CURB AND GUTTER REMOVAL SCHEDULE

STATION TO STATION	SIDE	44000500
		CURB AND GUTTER REMOVAL FOOT
46+00.00 49+90.00	LT	318.4
46+00.00 49+90.00	RT	305.2
TOTAL		623.6
USE		624

SIDEWALK REMOVAL SCHEDULE

STATION TO STATION	SIDE	44000600
		SIDEWALK REMOVAL SQ FT
46+00.00 50+20.00	RT	1878.3
46+00.00 49+90.00	LT	1840.0
TOTAL		3718.3
USE		3719

PAVEMENT SCHEDULE

STATION TO STATION	AGGREGATE SUBGRADE IMPROVEMENT	30300112	40600290	40600275	Z0062458	40603085	40604062	42000070
		BITUMINOUS MATERIALS (TACK COAT)	BITUMINOUS MATERIALS (PRIME COAT)	TEMPORARY PAVEMENT (VARIABLE DEPTH)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	BRIDGE APPROACH PAVEMENT CONNECTOR (HMA)	
	12"	POUND	POUND	TON	TON	TON	SQ YD	
46+00.00 47+62.41		647.9	666.0	1332.0	3.5	389.5	66.3	
46+97.41 47+62.41			257.8	515.5				229.2
48+63.59 49+28.59			257.8	515.5				229.2
48+63.59 49+90.00		407.6	419.0	837.9	3.5	245.0	41.7	
TOTAL		1055.5	1600.6	3200.9	7.0	634.6	108.0	458.3
USE		1056	1601	3201	7	635	109	459

PAVEMENT REMOVAL SCHEDULE

STATION TO STATION	SIDE	44000100
		PAVEMENT REMOVAL SQ YD
46+00.00 47+77.42		1006.2
48+48.55 49+90.00		822.6
TOTAL		1828.8
USE		1829

SELECTIVE CLEARING

STATION TO STATION	SIDE	Z0064800
		SELECTIVE CLEARING UNIT
46+00.00 47+13.50	LT	0.68
48+12.50 49+90.00	LT	1.14
49+11.10 49+90.00	RT	0.59
TOTAL		2.41
USE		2.5

TREE REMOVAL SCHEDULE

STATION	OFFSET	SIDE	20100110	20100210
			6 TO 15 UNITS DIAMETER	OVER 15 UNITS DIAMETER
			UNIT	
46+67.14	44.43'	LT	15	
46+86.07	44.79'	LT	14	
46+85.69	42.31'	LT	14	
47+21.17	38.32'	LT	8	
47+28.86	38.79'	LT	6	
47+28.41	38.90'	LT	6	
48+15.66	36.58'	LT		18
48+17.77	36.59'	LT		20
48+61.21	43.95'	LT	6	
48+67.07	42.42'	LT	6	
48+96.27	40.83'	LT	10	
49+03.29	38.48'	LT		22
49+11.43	39.50'	LT	13	
49+33.59	39.98'	LT		18
49+46.69	38.77'	LT	8	
49+48.28	38.55'	LT	6	
TOTAL			112	78
USE			112	78

PAVEMENT PATCHING SCHEDULE

STATION	OFFSET TO OFFSET	WIDTH FOOT	44201789
			CLASS D PATCHES, TYPE II, 12 INCH CU YD
PRE-STAGE 1			
46+25.00	2.5' RT	16.0' LT	4.83
46+25.00	16.0' LT	27.5' LT	4.83
49+33.00	2.5' RT	16.0' LT	4.83
49+33.00	16.0' LT	27.5' LT	4.83
TOTAL			32.2
USE			33

ELECTRICAL SCHEDULE

STATION TO STATION	81028350	81200230	81400100	81702415	83600200	84200804	84400105	89502380
	UNDERGROUND CONDUIT, PVC 2" DIA.	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	HANDHOLE	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE)	LIGHT POLE FOUNDATION, 24"	REMOVAL OF POLE FOUNDATION	RELOCATE EXISTING LIGHTING UNIT	REMOVE EXISTING HANDHOLE
	FOOT		EACH	FOOT		EACH		
46+95.0 31.3' LT	46+95.0 31.3' RT	63	2	76				
46+95.0 31.3' LT	47+08.4 32.1' LT	14		24				
46+95.0 31.3' RT	47+67.4 32.1' RT	73		83				
46+95.0 31.3' RT	47+12.5 41.1' RT	20		30	5.5	1		
47+03.0 30.5' LT							1	
47+08.5 30.5' RT						1		
47+16.8 43.1' RT							1	
47+08.4 30.3' LT	48+58.6 30.3' LT		152	155				
47+67.4 30.3' RT	49+17.6 30.3' RT		152	155				
48+52.2 31.9' LT						1		
48+58.6 32.1' LT	48+90.0 32.1' LT	32	1	42				
48+62.0 36.9' LT	48+90.0 32.1' LT	29		39	5.5	1		
49+17.6 32.6' RT	49+32.0 32.6' RT	15	1	25				
TOTAL		246	4	629	11	2	2	
USE		246	4	629	11	2	2	

STORM SEWER SCHEDULE

STATION TO STATION	20800150	28000510	54213465	54213489	60218500	60221100	60224446	60235700	60240220	Z0056608	Z0056620	Z0056628
	TRENCH BACKFILL	INLET FILTERS	END SECTION		MANHOLE			INLET		STORM SEWER (WATER MAIN REQUIREMENTS)		
	CU YD		30"	54"	4' A-3	5' A-1-C	7' A-1-C	A-3	B-3	12"	30"	54"
46+25.00 29.50' RT	46+25.00 29.50' LT	15.7	1					1		56		
46+25.00 29.50' LT	46+30.00 34.14' LT	1.3	1					1	1	4		
46+30.00 34.14' LT	47+27.59 45.99' LT	28.8		1		1				98		
48+14.53 44.61' LT	49+28.00 35.10' LT	48.2		1								112
49+28.00 44.61' LT	49+33.16 29.50' LT	2.2					1			6		
49+33.16 29.50' LT	49+33.16 29.50' RT	16.7	1							56		
49+33.16 29.50' LT	49+43.16 29.50' LT	2.2	1					1		8		
49+33.16 29.50' RT	49+43.16 29.50' RT	2.1	2					1	1	8		
TOTAL		117.2	6	1	1	1	1	3	2	138	98	112
USE		118	6	1	1	1	1	3	2	138	98	112

FENCE AND EROSION BARRIER SCHEDULE

STATION TO STATION	SIDE	28000400	X2200003
		PERIMETER EROSION BARRIER	FENCE (SPECIAL)
		FOOT	
46+00.00 47+34.01	LT	137.3	
46+00.00 48+13.50	RT	235.0	
46+00.00 49+90.00	LT		422.3
47+99.00 49+90.00	LT	192.7	
49+11.09 50+20.00	RT	109.7	
TOTAL		674.7	422.3
USE		675	423

CURB AND GUTTER SCHEDULE

STATION TO STATION	SIDE	42001300	60605000
		PROTECTIVE COAT SQ YD	CURB AND GUTTER TYPE B-6.24 FOOT
46+00.00 47+07.41	LT	38.3	105.5
46+00.00 47+62.41	RT	59.7	164.6
48+63.59 49+90.00	LT	46.6	128.5
49+18.59 49+90.00	RT	25.2	69.5
TOTAL		169.9	468.1
USE		170	469

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

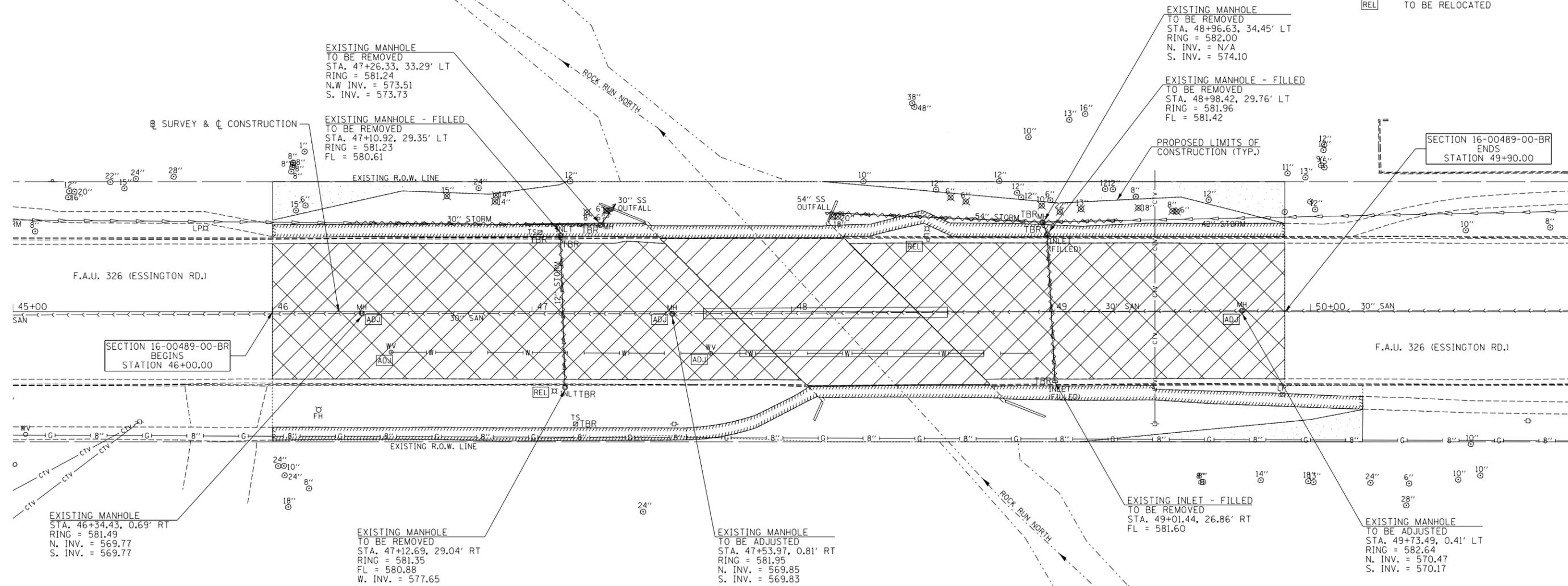
ESSINGTON ROAD
SCHEDULE OF QUANTITIES

USER NAME = jwhite	DESIGNED - TCQ	REVISED -
PLOT SCALE = 2,000' / in.	DRAWN - JCW	REVISED -
PLOT DATE = 11/1/2019	CHECKED - AWM	REVISED -
	DATE - 11-1-19	REVISED -

SCALE: N/A	SHEET 1 OF 2 SHEETS	STA. N/A TO STA. N/A	F.A.U. RTE. 326	SECTION 16-00489-00-BR	COUNTY WILL	TOTAL SHEETS 52	SHEET NO. 13
						CONTRACT NO. 61G21	
						ILLINOIS FED. AID PROJECT	

LEGEND

-  REMOVAL OF EXISTING PAVEMENT
-  REMOVAL OF EXISTING STRUCTURES
-  REMOVAL OF EXISTING SIDEWALK
-  SELECTIVE CLEARING
-  REMOVAL OF EXISTING TREES
-  REMOVAL OF EXISTING STORM SEWER
- TBR** TO BE REMOVED
- [ADJ]** TO BE ADJUSTED
- [REL]** TO BE RELOCATED



SECTION 16-00489-00-BR
BEGINS
STATION 46+00.00

SECTION 16-00489-00-BR
ENDS
STATION 49+90.00

F.A.U. 326 (ESSINGTON RD.)

F.A.U. 326 (ESSINGTON RD.)

EXISTING MANHOLE
TO BE REMOVED
STA. 47+26.33, 33.29' LT
RING = 581.24
N.W. INV. = 573.51
S. INV. = 573.73

EXISTING MANHOLE - FILLED
TO BE REMOVED
STA. 47+10.92, 29.35' LT
RING = 581.23
FL = 580.61

EXISTING MANHOLE
TO BE REMOVED
STA. 48+96.63, 34.45' LT
RING = 582.00
N. INV. = N/A
S. INV. = 574.10

EXISTING MANHOLE - FILLED
TO BE REMOVED
STA. 48+98.42, 29.76' LT
RING = 581.96
FL = 581.42

PROPOSED LIMITS OF
CONSTRUCTION (TYP.)

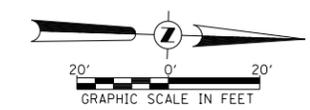
EXISTING MANHOLE
STA. 46+34.43, 0.69' RT
RING = 581.49
N. INV. = 569.77
S. INV. = 569.77

EXISTING MANHOLE
TO BE REMOVED
STA. 47+12.69, 29.04' RT
RING = 581.35
FL = 580.88
W. INV. = 577.65

EXISTING MANHOLE
TO BE ADJUSTED
STA. 47+53.97, 0.81' RT
RING = 581.95
N. INV. = 569.85
S. INV. = 569.83

EXISTING INLET - FILLED
TO BE REMOVED
STA. 49+01.44, 26.86' RT
FL = 581.60

EXISTING MANHOLE
TO BE ADJUSTED
STA. 49+73.49, 0.41' LT
RING = 582.64
N. INV. = 570.47
S. INV. = 570.17



MODEL: s:\00489\16-00489-00-BR.dwg
FILE NAME: 16-00489-00-BR.dwg
DATE: 9/26/2019

USER NAME = jwhite	DESIGNED - TCQ	REVISED -
	DRAWN - JCW	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - AWM	REVISED -
PLOT DATE = 9/26/2019	DATE - 9-6-19	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

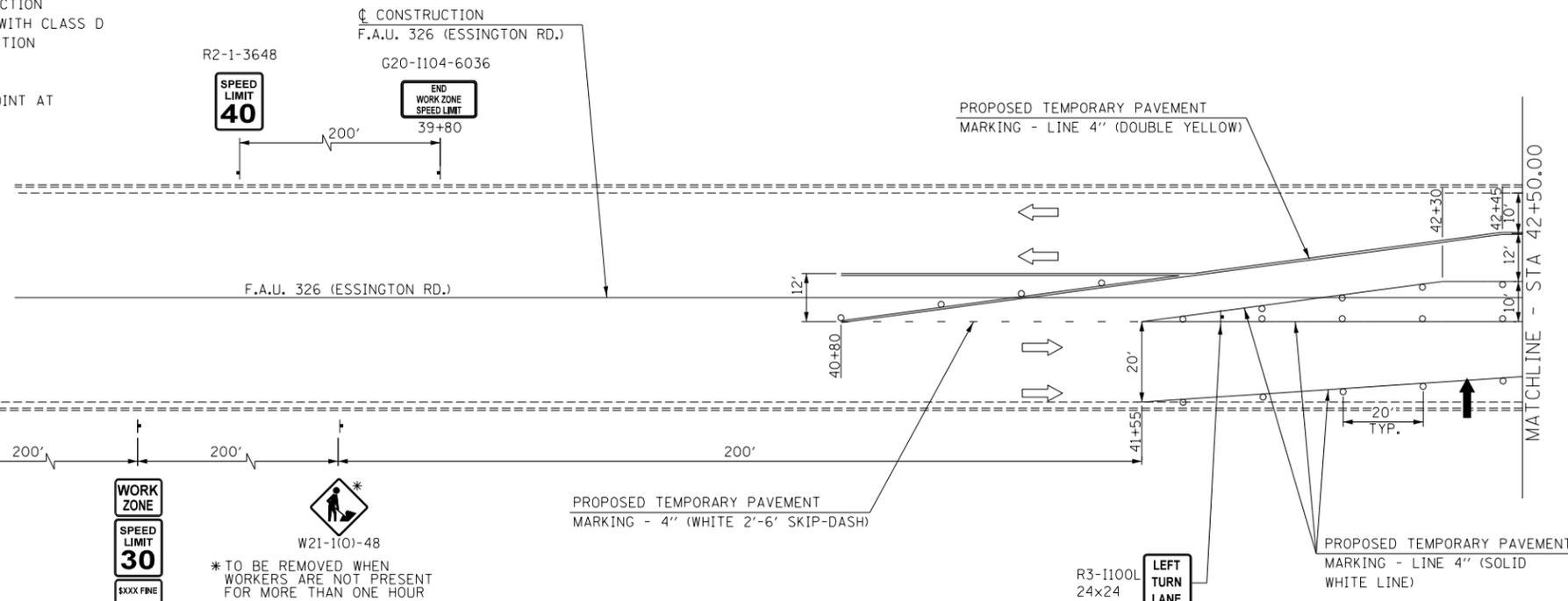
**ESSINGTON ROAD
REMOVAL PLAN**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 46+00.00 TO STA. 49+90.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	16-00489-00-BR	WILL	52	15
CONTRACT NO. 61G21				
ILLINOIS FED. AID PROJECT				

PRE-STAGE 1 CONSTRUCTION

1. REMOVE EXISTING BRIDGE WING AT STATION 48+16 LT. AS NECESSARY TO CONSTRUCT 54" STORM SEWER OUTFALL.
2. CONSTRUCT NEW STORM SEWER AND ASSOCIATED STRUCTURES FROM OUTFALL STATION 48+14.53 TO STAGE 1 CONSTRUCTION JOINT AT STATION 49+33.16, 2.5' RT. PLUG STORM SEWER AT CONSTRUCTION JOINT AND PATCH EXISTING PAVEMENT WITH CLASS D PAVEMENT PATCHING 12". REMOVE EXISTING STORM SEWERS WHICH CONFLICT WITH PROPOSED STORM SEWER CONSTRUCTION AS REQUIRED.
3. CONSTRUCT NEW STORM SEWER AND ASSOCIATED STRUCTURES FROM OUTFALL STATION 47+27.56 TO CONSTRUCTION JOINT AT STATION 46+25.00, 2.5' RT. PLUG STORM SEWER AT CONSTRUCTION JOINT AND PATCH EXISTING PAVEMENT WITH CLASS D PAVEMENT PATCHING 12". REMOVE EXISTING STORM SEWERS WHICH CONFLICT WITH PROPOSED STORM SEWER CONSTRUCTION AS REQUIRED.
4. UPON COMPLETION OF DRAINAGE STRUCTURES STATION 46+25.00, 29.50' LT. AND 49+33.16, 29.50' LT. THE EXISTING CUTTER FLOWLINE SHALL BE RESTORED TO MAINTAIN FLOW DURING STAGE 1.
5. ALL SIDEWALKS DESTROYED DUE TO STORM SEWER CONSTRUCTION SHALL BE RECONSTRUCTED TO EXISTING GRADE UTILIZING COMPACTED AGGREGATE FOR TEMPORARY ACCESS, FOR PEDESTRIAN USE DURING STAGE 1 CONSTRUCTION.
6. ALL WORK COMPLETED DURING PRE-STAGE 1 SHALL BE COMPLETED UNDER TRAFFIC UTILIZING IDOT STANDARD 701602.

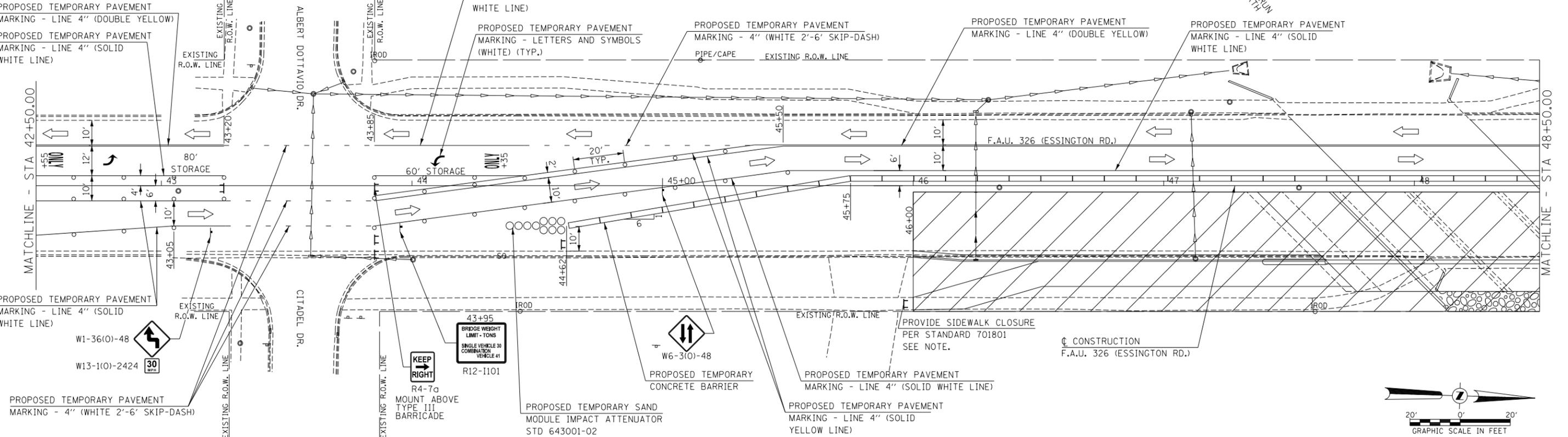


LEGEND

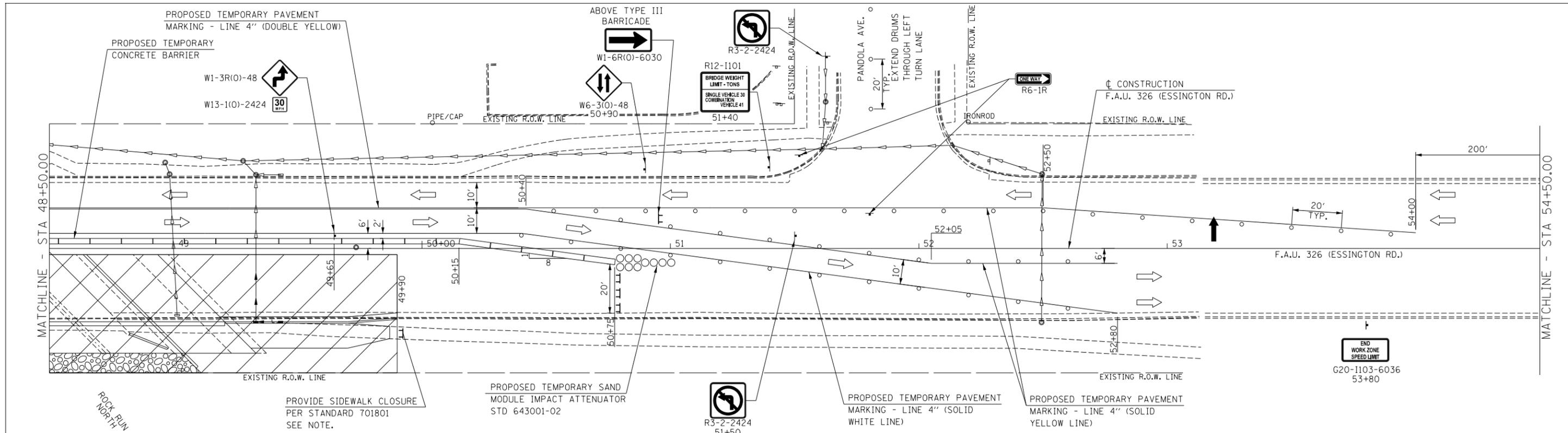
	WORK AREA		TYPE III BARRICADE WITH FLASHING LIGHT
	DRUM OR TYPE I BARRICADE W/ LIGHT		SIGN ON PORTABLE SUPPORT
	ARROW BOARD		
	DIRECTION OF TRAFFIC		

NOTES:

1. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE INSTALLED ON CITADEL DRIVE AND ALBERT DOTTAVIO DRIVE IN ACCORDANCE WITH DETAIL TC-10 ON SHEET 48.
2. THE "SIDEWALK CLOSED/USE OTHER SIDE" SIGN SHALL BE PLACED AT THE NEAREST SIGNALIZED INTERSECTIONS, INGALS AVENUE/ESSINGTON ROAD AND THEODORE STREET/ESSINGTON ROAD.



FILE NAME =	USER NAME = jwhite	DESIGNED - TCQ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ESSINGTON ROAD MAINTENANCE OF TRAFFIC - STAGE 1	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
V:\4477 - Essington Rd over Rock Run North - Phase II (Will)\CADD\CADD Sheets\4477-sh1-MDR.dwg		CHECKED - AWM	REVISED -			326	16-00489-00-BR	WILL	52	17	
MODELNAME\$		DATE - 10-23-19	REVISED -			CONTRACT NO. 61G21					
						ILLINOIS FED. AID PROJECT					

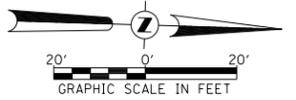
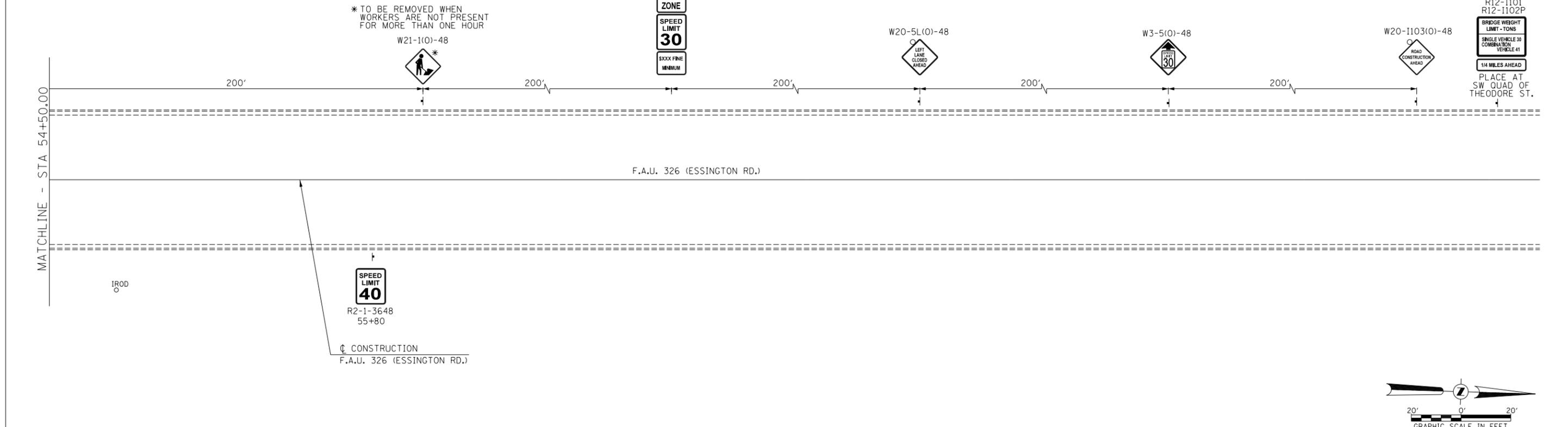
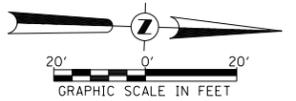


LEGEND

	WORK AREA		TYPE III BARRICADE WITH FLASHING LIGHT
	DRUM OR TYPE I BARRICADE W/ LIGHT		SIGN ON PORTABLE SUPPORT
	ARROW BOARD		
	DIRECTION OF TRAFFIC		

NOTES:

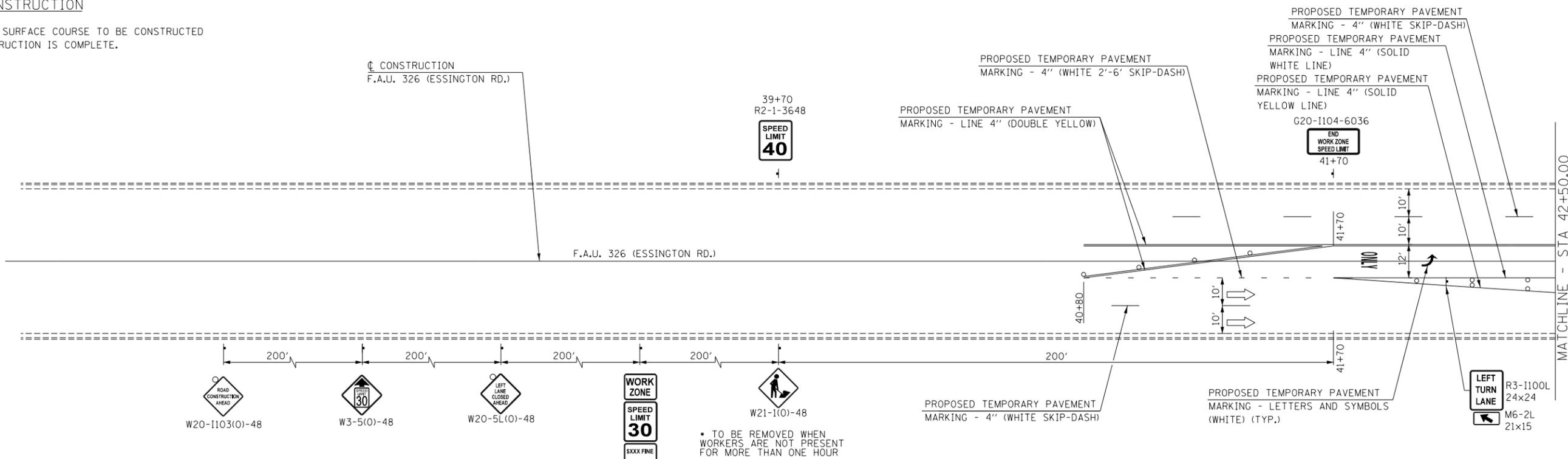
- "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE INSTALLED ON PANDOLA AVENUE IN ACCORDANCE WITH DETAIL TC-10 ON SHEET 48.
- THE "SIDEWALK CLOSED/USE OTHER SIDE" SIGN SHALL BE PLACED AT THE NEAREST SIGNALIZED INTERSECTIONS, INGALS AVENUE/ESSINGTON ROAD AND THEODORE STREET/ESSINGTON ROAD.



FILE NAME = V:\4477 - Essington Rd over Rock Run North - Phase II (Will)\CADD\CADD Sheets\4477-sh1-MDR.dwg	USER NAME = jwhite	DESIGNED - TCQ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ESSINGTON ROAD MAINTENANCE OF TRAFFIC - STAGE 1	F.A.U. RTE. 326	SECTION 16-00489-00-BR	COUNTY WILL	TOTAL SHEETS 52	SHEET NO. 18	
MODELNAME\$	PLOT SCALE = 40.0000 ' / in.	CHECKED - AWM	REVISED -			SCALE: 1"=20'	SHEET 2 OF 4 SHEETS	STA. 48+50.00 TO STA. 55+49.87	CONTRACT NO. 61G21		
	PLOT DATE = 11/1/2019	DATE - 11-1-19	REVISED -			ILLINOIS FED. AID PROJECT					

POST-STAGE 2 CONSTRUCTION

- 1. ALL HOT-MIX ASPHALT SURFACE COURSE TO BE CONSTRUCTED AFTER STAGE 2 CONSTRUCTION IS COMPLETE.

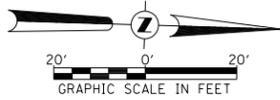
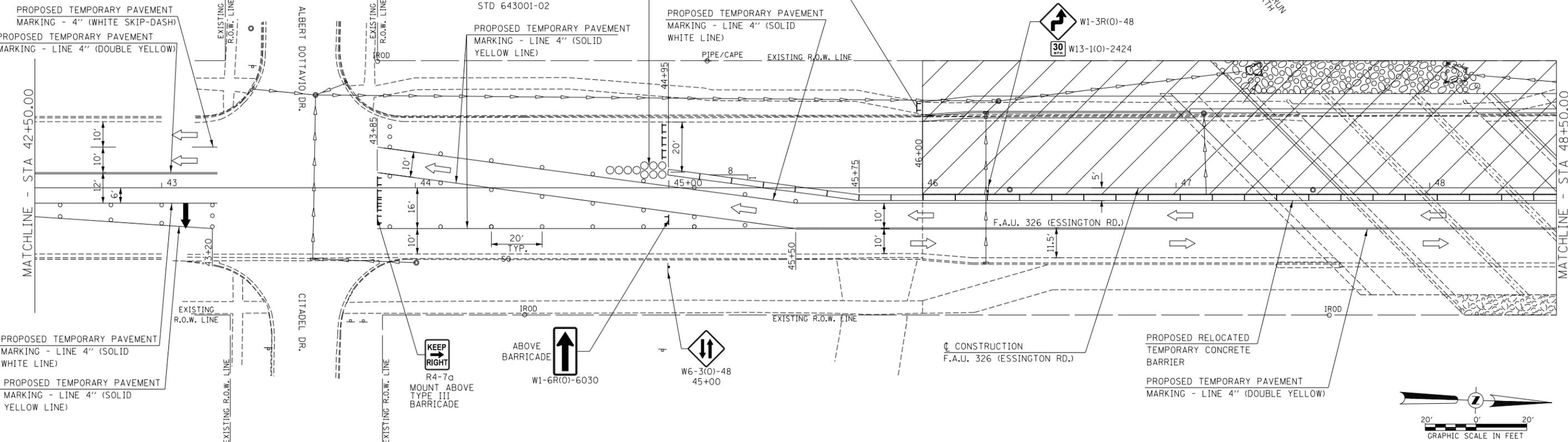
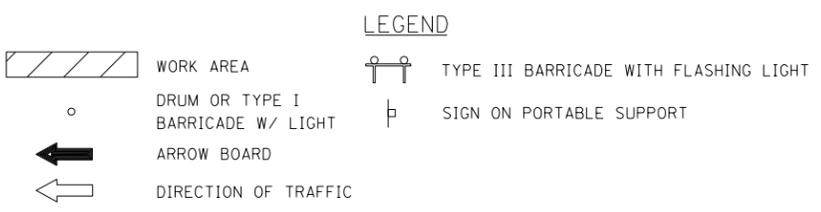
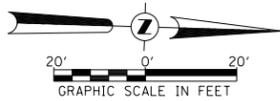


* TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR MORE THAN ONE HOUR

W21-1115(O)-3618
R2-1-3648
R2-1106P-3618

NOTES:

- "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE INSTALLED ON CITADEL DRIVE AND ALBERT DOTTAVIO DRIVE IN ACCORDANCE WITH DETAIL TC-10 ON SHEET 48.
- THE "SIDEWALK CLOSED/USE OTHER SIDE" SIGN SHALL BE PLACED AT THE NEAREST SIGNALIZED INTERSECTIONS, INGALS AVENUE/ESSINGTON ROAD AND THEODORE STREET/ESSINGTON ROAD.



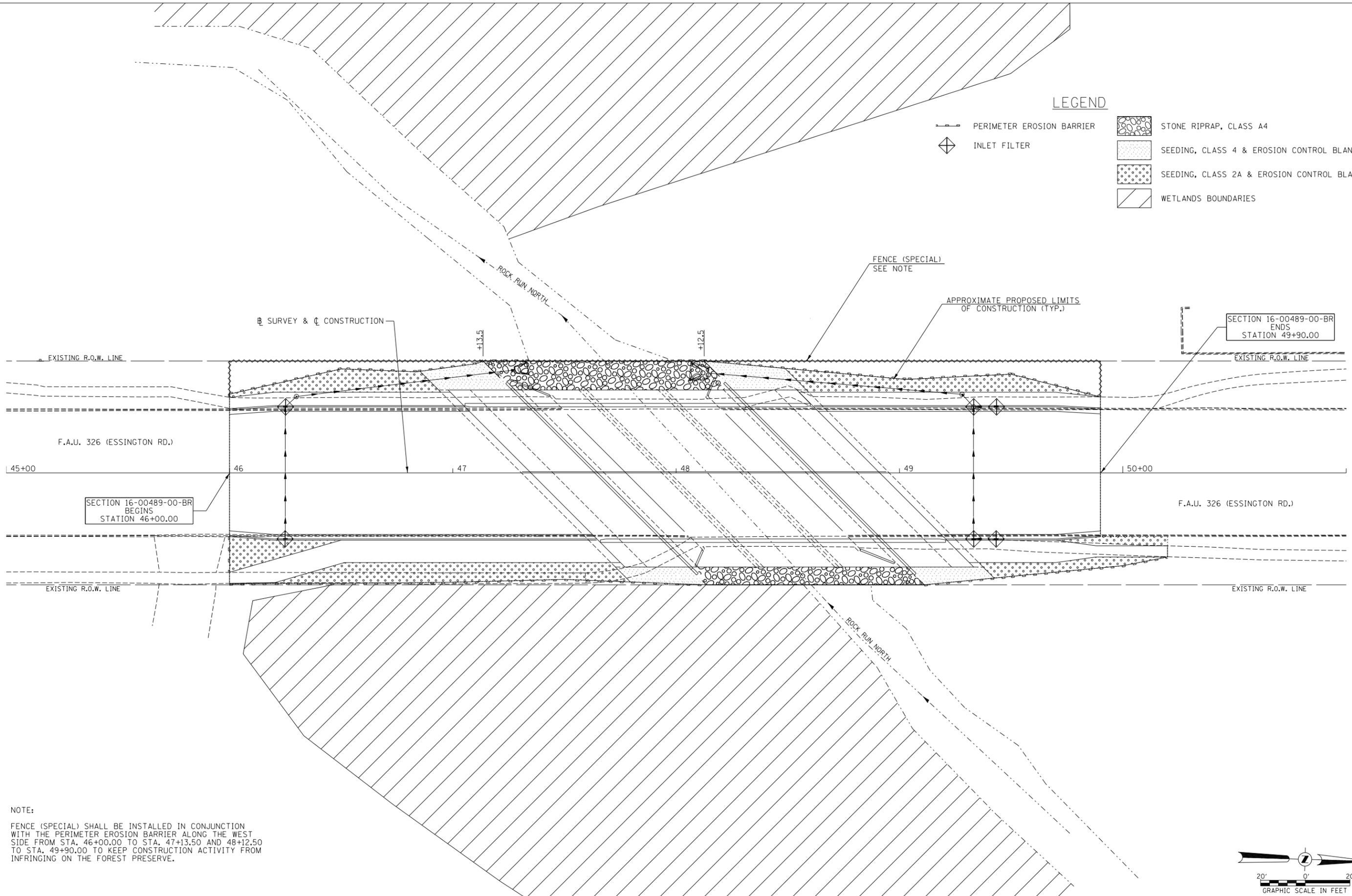
FILE NAME =	USER NAME = jwhite	DESIGNED - TCQ	REVISED -
V:\4477 - Essington Rd over Rock Run North - Phase II (Will) CAD\CADD Sheets\4477-sh1-MDR.dwg		CHECKED - AWM	REVISED -
MODELNAME\$	PLOT SCALE = 40.0000' / in.	DATE - 10-23-19	REVISED -
	PLOT DATE = 11/1/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

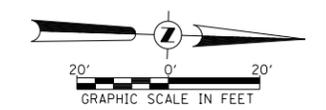
ESSINGTON ROAD		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
MAINTENANCE OF TRAFFIC - STAGE 2		326	16-00489-00-BR	WILL	52	19
SCALE: 1"=20'		SHEET 3 OF 4 SHEETS		STA. 40+12.64 TO STA. 48+50.00		CONTRACT NO. 61G21
ILLINOIS FED. AID PROJECT						

LEGEND

-  PERIMETER EROSION BARRIER
-  INLET FILTER
-  STONE RIPRAP, CLASS A4
-  SEEDING, CLASS 4 & EROSION CONTROL BLANKET
-  SEEDING, CLASS 2A & EROSION CONTROL BLANKET
-  WETLANDS BOUNDARIES



NOTE:
 FENCE (SPECIAL) SHALL BE INSTALLED IN CONJUNCTION WITH THE PERIMETER EROSION BARRIER ALONG THE WEST SIDE FROM STA. 46+00.00 TO STA. 47+13.50 AND 48+12.50 TO STA. 49+90.00 TO KEEP CONSTRUCTION ACTIVITY FROM INFRINGING ON THE FOREST PRESERVE.



MODEL: \\MODELS\MAME
 FILE NAME: 031777 - Essington Rd over Rock Run North - Phase II (WILL)CADD\CADD_Sheets\14775br-crps-1.dgn

USER NAME = jwhite	DESIGNED - LDZ	REVISED -
PLOT SCALE = 40.0000 ' / in.	DRAWN - JCW	REVISED -
PLOT DATE = 11/1/2019	CHECKED - AWM	REVISED -
	DATE - 10-23-19	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

ESSINGTON ROAD EROSION CONTROL PLAN			
SCALE: N/A	SHEET 1	OF 1 SHEETS	STA. N/A TO STA. N/A

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	16-00489-00-BR	WILL	52	21
CONTRACT NO. 61G21				
ILLINOIS FED. AID PROJECT				

EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH PLAN DETAILS AND THE STORM WATER POLLUTION PREVENTION PLAN.
2. FAILURE TO COMPLY WITH ANY PROVISIONS OF THE STORM WATER POLLUTION PREVENTION PLAN WILL RESULT IN THE IMPLEMENTATION OF A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM/EROSION AND SEDIMENT CONTROL DEFICIENCY DEDUCTION AGAINST THE CONTRACTOR AND/OR PENALTIES UNDER THE PERMIT ILR10 WHICH COULD BE PASSED ON TO THE CONTRACTOR.
3. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
4. QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE WHICH HAVE NOT YET BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES AND EQUIPMENT ENTER AND EXIT THE SITE USING IDOT STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL INSPECTION REPORT (BC 2259). SUCH INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A STORM, OR BY THE END OF THE WORK DAY FOLLOWING 0.5 INCH OR GREATER OR EQUIVALENT SNOWFALL.
5. INSPECTIONS MAY BE REDUCED TO ONCE PER MONTH WHEN CONSTRUCTION ACTIVITIES HAVE CEASED DUE TO FROZEN CONDITIONS. WEEKLY INSPECTIONS WILL RECOMMENCE WHEN CONSTRUCTION ACTIVITIES ARE CONDUCTED, OR IF THERE IS 0.5 INCH OR GREATER RAIN EVENT, OR A DISCHARGE DUE TO SNOW MELT OCCURS.
6. CROSSINGS OF WATERWAYS AND/OR WETLANDS SHALL BE CULVERTED, BRIDGED OR OTHERWISE DESIGNED TO PREVENT THE RESTRICTION OF EXPECTED HIGH WATER FLOWS. THEY SHALL BE DESIGNED SO AS NOT TO IMPEDE LOW WATER FLOWS OR THE SAFE PASSAGE OF FISH AND AQUATIC ORGANISMS.
7. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
8. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
9. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN 7 CALENDAR DAYS OF THE END OF ACTIVE HYDROLOGIC DISTURBANCE OR REDISTURBANCE.
10. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM THE TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF PRIOR TO PERMANENT STABILIZATION.
11. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE AND REPAIR OF EROSION CONTROL.
12. A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER FABRIC (OR OTHER APPROPRIATE MEASURE) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING THE CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA. THIS WORK IS INCLUDED IN THE COST OF THE CONTRACT.
13. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS AND IS INCLUDED IN THE COST OF THE CONTRACT. DEWATERING DIRECTLY INTO STREAMS, WETLANDS, FIELD TILES OR STORMWATER STRUCTURES IS PROHIBITED.
14. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY WILL-SOUTH COOK SWCD AND THE CITY OF JOLIET - DEPARTMENT OF PUBLIC WORKS.
15. THE CONTRACTOR SHALL COMPLY WITH OSHA WORK AND SAFETY RULES.
16. THE WILL SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT AND OTHER INTERESTED REGULATORY AGENCIES AND OFFICIALS SHALL BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND-DISTURBING ACTIVITIES AND ONE WEEK PRIOR TO THE FIRST INSPECTION.
17. UNLESS OTHERWISE INDICATED, ALL VEGETATED AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 280001, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION, OR ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL LATEST EDITION.
18. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FROM THE U.S. ARMY CORPS OF ENGINEERS, WILL SOUTH-COOK SOIL AND WATER CONSERVATION DISTRICT AND CITY OF JOLIET - DEPARTMENT OF PUBLIC WORKS.
19. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS AND IN ACCORDANCE WITH ALL PERMITS.
20. WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF THE MATERIALS NECESSARY FOR THE CONSTRUCTION OF THE TEMPORARY STREAM CROSSING. ALL MATERIALS FOR THE TEMPORARY CROSSING MUST BE NON-ERODIBLE. THE TEMPORARY CROSSING MUST BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME.
21. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE DETAILS OF THE TEMPORARY CROSSING TO THE CITY OF JOLIET - DEPARTMENT OF PUBLIC WORKS FOR APPROVAL PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
22. IF BYPASS PUMPING IS NECESSARY, THE PUMP SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM BEING SUCKED INTO THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE (ROCK CHECK DAM, PLYWOOD, SHEET PILE, ETC.) PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION OF DOWNSTREAM AREAS.
23. DEWATERING MEASURES SHALL COMPLY WITH THE ILLINOIS URBAN MANUAL. DURING DEWATERING, THE WATER SHALL BE FILTERED TO REMOVE SEDIMENT PRIOR TO DISCHARGE TO THE STREAM. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS, DEWATERING BAGS OR OTHER APPROPRIATE METHODS. WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BE RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY. THE DISCHARGE FROM THE DEWATERING DEVICE SHALL NOT CAUSE EROSION.

24. THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING CONSTRUCTION. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL OR WATERS OF THE U.S. THE CONTRACTOR SHALL MAINTAIN THE DEVELOPMENT SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.
25. THE SIDE SLOPES MUST BE RESEEDDED AND STABILIZED IMMEDIATELY AFTER FINAL GRADING WITH AN APPROPRIATE EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS. THE BOTTOM OF THE CHANNEL MUST BE BROUGHT BACK TO ITS ORIGINAL GRADE AND STABILIZED TO ACCEPT FLOWS.
26. THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET OR HEAVY DUTY MULCH.
27. STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER EROSION CONTROL BARRIER AROUND THE BASE). STOCKPILES NOT BEING ACTIVELY WORKED AND TO REMAIN IN PLACE FOR 14 DAYS SHALL RECEIVE TEMPORARY SEEDING.
28. CONCRETE WASHOUT FACILITIES SHALL BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL. COST OF WASHOUT FACILITIES INCLUDED IN THE COST OF THE CONTRACT.
29. ALL ADJACENT ROADWAYS SHALL BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
30. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE AT ALL TIMES.
31. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN THOSE INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED FOR REVIEW BY WSCSWCD AND THE CITY OF JOLIET - DEPARTMENT OF PUBLIC WORKS.
32. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL SUB-CONTRACTORS OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THE EROSION CONTROL PLANS TO ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
33. FINAL ACCEPTANCE OF THE PROJECT WILL BE CONTINGENT ON RECORD DRAWING APPROVAL BY THE ENGINEER.
34. CONTRACTOR CERTIFICATION SIGNOFF SHALL BE REQUIRED BY THE GENERAL NPDES PERMIT NUMBER ILR10 AS FOLLOWS:

"I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM NPDES PERMIT ILR10 THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE AS PART OF THIS CERTIFICATION."

TEMPORARY EROSION CONTROL SEQUENCE OF CONSTRUCTION

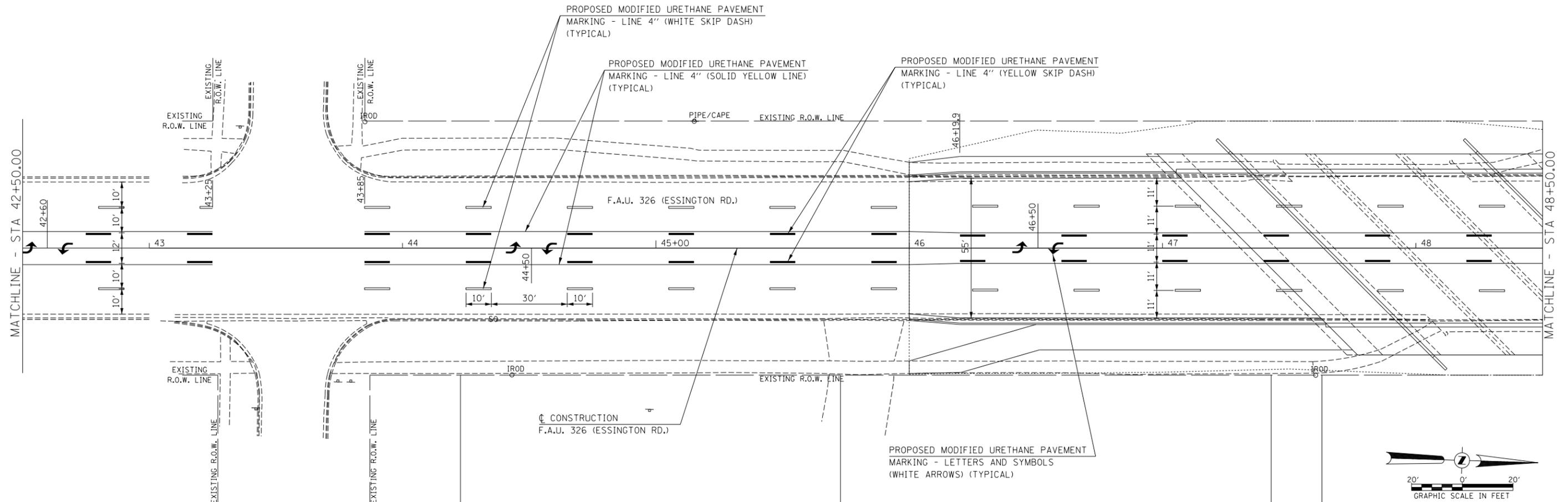
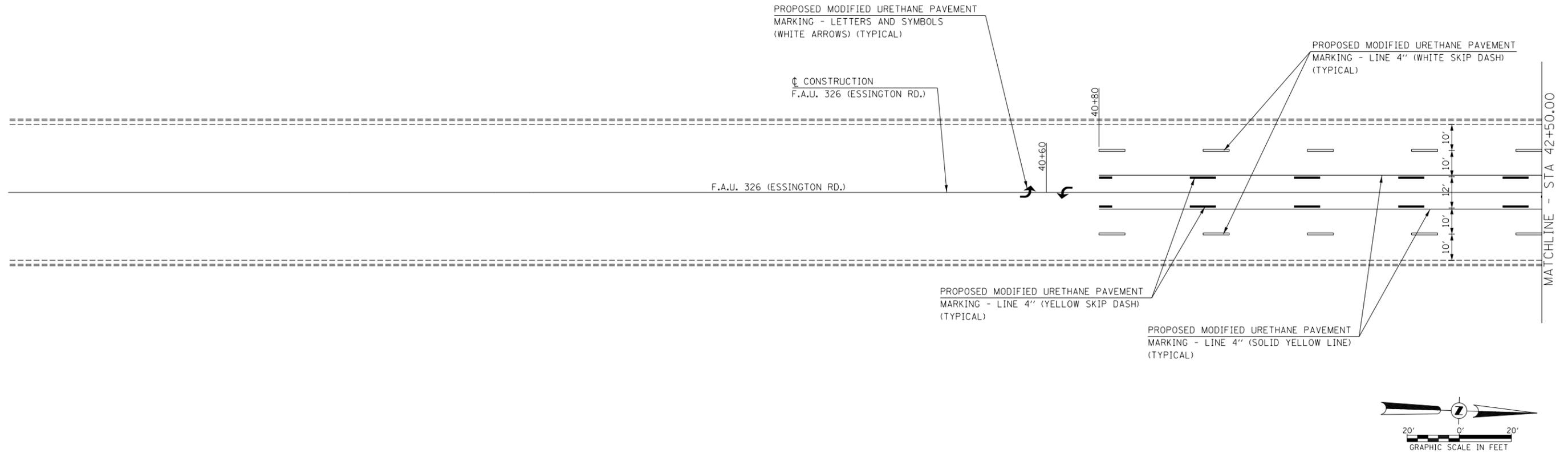
1. ESTABLISH TEMPORARY EROSION CONTROL MEASURES AND ERECT PERIMETER EROSION CONTROL BARRIER ALONG SITE BOUNDARIES PRIOR TO THE COMMENCEMENT OF EARTH DISTURBING ACTIVITIES.
2. ALL AREAS OF BARE GROUND SHALL BE TEMPORARILY SEEDED EVERY 7 DAYS UNTIL PERMANENT EROSION CONTROL IS IN PLACE.
3. TEMPORARY DITCH CHECKS SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE.
4. INLET AND PIPE PROTECTION OR INLET FILTERS (IN PAVED AREAS) SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OR CESSATION OF DISTURBANCE FOR 14 DAYS, AND THE INSTALLATION SHALL BE COMPLETED BY THE 14TH DAY AFTER NO DISTURBANCE.
5. ESTABLISH PERMANENT STABILIZATION WITHIN 14 DAYS OF FINAL GRADING OR WHEN DISTURBED AREA IS LEFT IDLE FOR MORE THAN 14 DAYS.
6. EROSION CONTROL BLANKET SHALL BE USED IN AREAS OF CONCENTRATED FLOW AND ON 1:3 (V:H) OR STEEPER SLOPES. TEMPORARY MULCH SHALL BE USED IN AREA OF SHEET FLOW.
7. PERFORM ONGOING MAINTENANCE OF EROSION CONTROL ITEMS.

POST-CONSTRUCTION

1. PERFORM ONGOING MAINTENANCE OF EROSION CONTROL ITEMS.
2. AFTER FINAL SEEDING IS ESTABLISHED, REMOVE EROSION CONTROL DEVICES.
3. PERFORM RESTORATION OF AREAS DISTURBED FROM THE REMOVAL OF EROSION CONTROL DEVICES.

MODEL: s:\MODEL\NAME: FILE NAME: 031477 - Essington Rd over Rock Run North - Phase II (WILL)CADD\CADD_Sheets\1477zshc-ar02-2.dgn

USER NAME = jwhite	DESIGNED - LDZ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ESSINGTON ROAD EROSION CONTROL GENERAL NOTES				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - JCW	REVISED -		326	16-00489-00-BR	WILL	52	22				
PLOT SCALE = 2,0000 ' / in.	CHECKED - AWM	REVISED -		CONTRACT NO. 61G21								
PLOT DATE = 9/23/2019	DATE - 9-6-19	REVISED -		SCALE: N/A	SHEET 1	OF 2 SHEETS	STA. N/A	TO STA. N/A	ILLINOIS	FED. AID PROJECT		



FILE NAME =	USER NAME = jwhite	DESIGNED - TCQ	REVISED -
V:\4477 - Essington Rd over Rock Run North - Phase II (Will)\CADD\CADD Sheets\4477-sht-0000.dwg		CHECKED - AWM	REVISED -
MODELNAME\$	PLOT SCALE = 40.0000' / in.	DATE - 11-5-19	REVISED -
	PLOT DATE = 11/5/2019		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ESSINGTON ROAD
PAVEMENT MARKING PLAN**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 40+12.64 TO STA. 48+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	16-00489-00-BR	WILL	52	24
CONTRACT NO. 61G21				
ILLINOIS FED. AID PROJECT				

B.M. #1: Chsld. "□" on Conc. Light Pole Base
Sta. 44+36, 30' Rt. Elev. 581.15

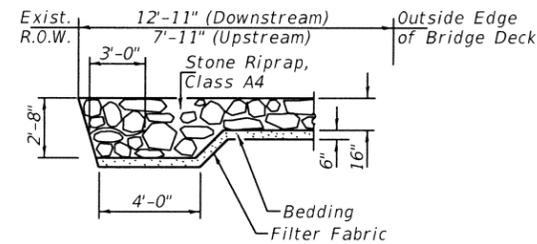
B.M. #3: Chsld. "□" on Conc. Light Pole Base
Sta. 51+24, 31' Lt. Elev. 583.09

Existing Structure:

Two span PPC Deck Beam superstructure on a concrete pier and concrete closed abutments. The structure is 72'-7" back to back of abutments, 66'-0" out to out of deck, and is skewed 45° Rt. Ah. The structure was constructed in 1976. Str. No. 099-3128.

Salvage: None

Traffic to be maintained utilizing stage construction.



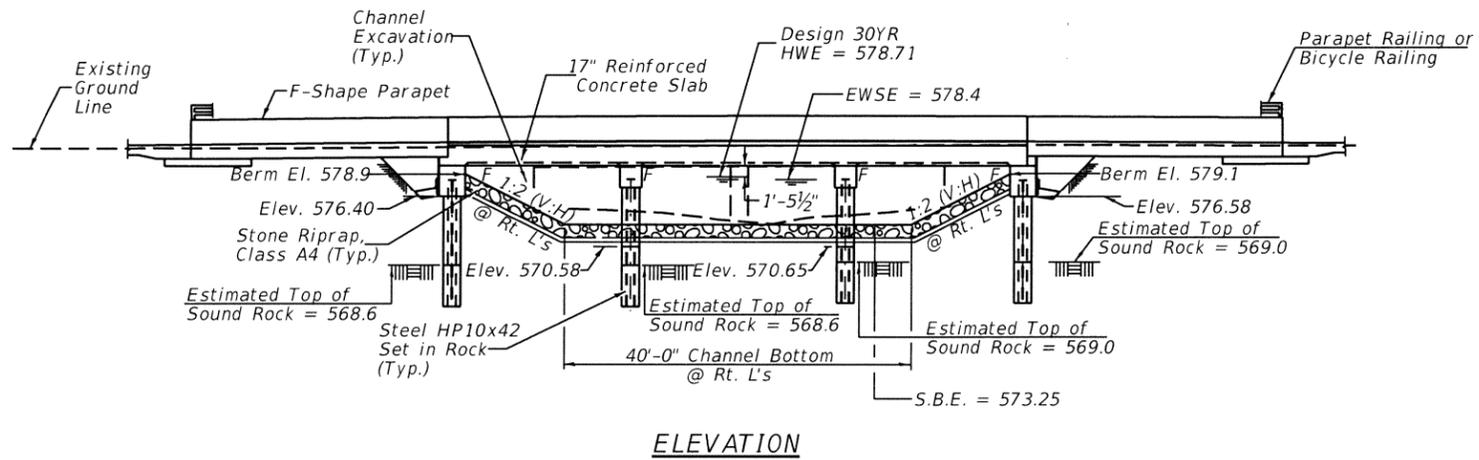
SECTION A-A

ROCK RUN NORTH
BUILT 20____
BY CITY OF JOLIET
WILL COUNTY
SEC. 16-00489-00-BR
F.A.U. 326 STA 48+13.00
LOADING HL93 STR. NO. 099-6049

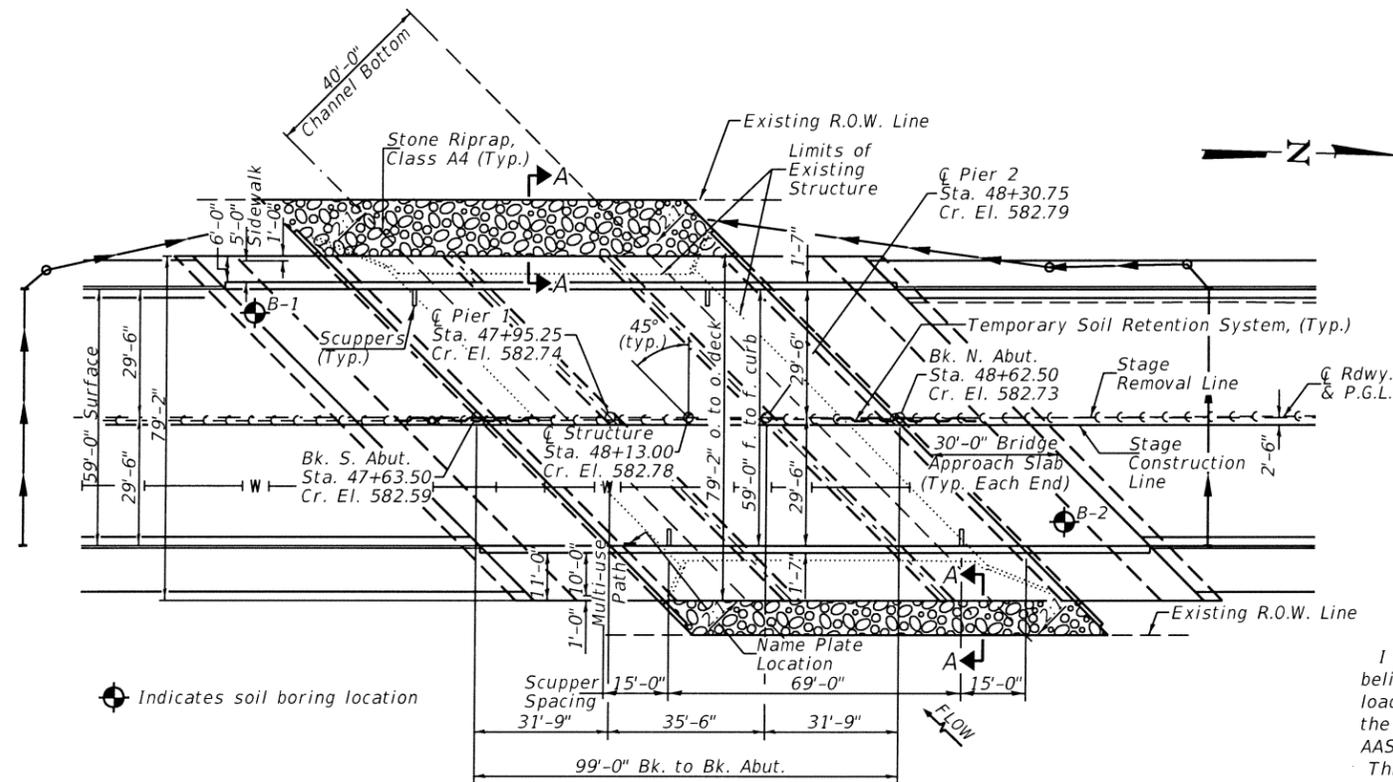
NAME PLATE
(See Std. 515001)

Locate new name plate at South End of East Parapet.

Note:
Previous existing structure may be in the area of proposed piers. Cost of removal, if required, is included in Removal of Existing Structures.



ELEVATION



PLAN

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevations (ft.)					Item 113
S. Abut.	Pier 1	Pier 2	N. Abut.		
Q100	576.4	568.6	569.0	576.6	8
Q200	576.4	568.6	569.0	576.6	
Design	576.4	568.6	569.0	576.6	
Check	576.4	568.6	569.0	576.6	

WATERWAY INFORMATION

Drainage Area = 4.96 Sq. Mi. Low Grade Elev. = 580.68 @ Sta. 43+15.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Nat. Prop.	H.W.E. Exist.	Head - Ft. Exist.	Headwater El. Prop.
Design	30	568	193	255	578.71	0.70	579.41
Base	100	740	209	275	579.05	1.00	580.05

Construction of this project complies with IDNR, Office of Water Resources Individual Permit No. DIL-17-007

DESIGNED	B.A.N.
CHECKED	Z.L.
DRAWN	J.C.W.
CHECKED	B.A.N.

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

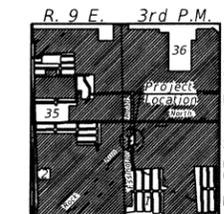
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.031g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.084g
Soil Site Class = A

DESIGN STRESSES

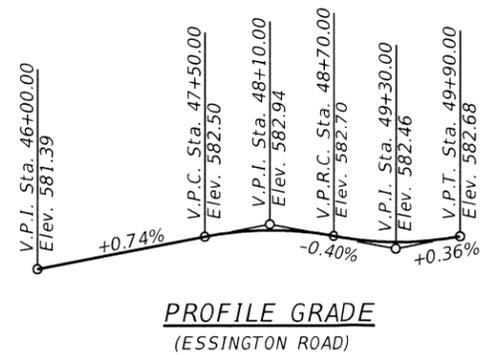
(FIELD UNITS)

f'c = 3,500 psi (Substructure)
f'c = 4,000 psi (Superstructure)
fy = 60,000 psi (Reinforcement)



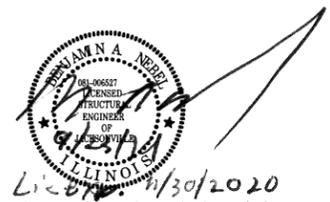
LOCATION SKETCH

SHEET NO. 1	F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	326	16-00489-00-BR	WILL	52	27
21 SHEETS	S.N. 099-6049		CONTRACT NO. 61G21		
	FED. ROAD DIST. NO.	ILLINOIS	PROJECT NO. FBG 0(207)		



INDEX OF SHEETS

1. General Plan
2. General Notes, Details & Bill of Materials
3. Stage Construction Details
4. Temporary Concrete Barrier for Stage Construction
5. Superstructure
- 6 - 7. Superstructure Details
- 8 - 9. South Approach Slab Details
- 10 - 11. North Approach Slab Details
12. Bicycle Railing
13. Drainage Scupper, DS-11
14. South Abutment
15. North Abutment
16. Pier 1
17. Pier 2
18. Bar Splicer Assembly Details
19. Pile Details
- 20 - 21. Soil Borings



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 Bridge Design Specifications. This design complies with all requirements of the current AASHTO Guide Specifications for Seismic Design of highway bridges.

[Signature]
Illinois Structural No. 6527
Expires 11/30/2020

GENERAL PLAN AND ELEVATION

ESSINGTON ROAD OVER

ROCK RUN NORTH

SECTION 16-00489-00-BR

WILL COUNTY

STATION 48+13.00

STRUCTURE NO. 099-6049

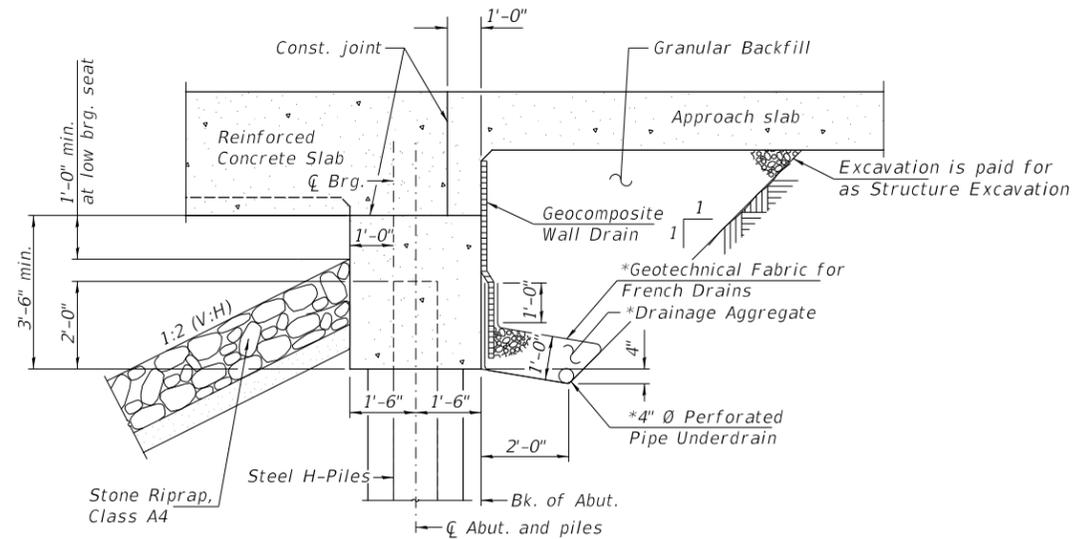
TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
① Removal of Existing Structures	Each	-	-	1
Channel Excavation	Cu. Yd.	-	535	535
Structure Excavation	Cu. Yd.	-	350	350
Cofferdam Excavation	Cu. Yd.	-	235	235
Stone Riprap, Class A4	Sq. Yd.	-	1,040	1,040
Filter Fabric	Sq. Yd.	-	1,040	1,040
① Concrete Superstructure	Cu. Yd.	453.0	-	453.0
① Concrete Superstructure (Approach Slab)	Cu. Yd.	224.8	-	224.8
Concrete Structures	Cu. Yd.	-	348.8	348.8
Concrete Encasement	Cu. Yd.	-	34.4	34.4
Reinforcement Bars, Epoxy Coated	Pound	254,430	34,890	289,320
Bridge Deck Grooving	Sq. Yd.	990	-	990
Protective Coat	Sq. Yd.	1,550	-	1,550
Temporary Soil Retention System	Sq. Ft.	-	270	270
Bicycle Railing	Foot	309	-	309
Parapet Railing	Foot	306	-	306
Drainage Scuppers, DS-11	Each	4	-	4
Furnishing Steel Pile HP10x42	Foot	-	930	930
① Setting Piles in Rock	Each	-	60	60
① Cofferdam (Type 1) (In-Stream/Wetland Work)	Each	-	4	4
① Pipe Underdrains for Structures, 4"	Foot	-	276	276
Granular Backfill for Structures	Cu. Yd.	-	190	190
Geocomposite Wall Drain	Sq. Yd.	-	105	105
Name Plates	Each	1	-	1
Bar Splicers	Each	576	84	660

①See Special Provisions

GENERAL NOTES

All construction joints shall be bonded.
 The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.
 Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 The contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach slab.
 Excavation behind the existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged. The contractor shall saw cut the pier wall at the stage removal line prior to Stage I pier removal.
 A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention design including plan details and calculations for review and acceptance by the Engineer.
 Bridge Deck Grooving is figured 1'-0" from inside face of parapet.

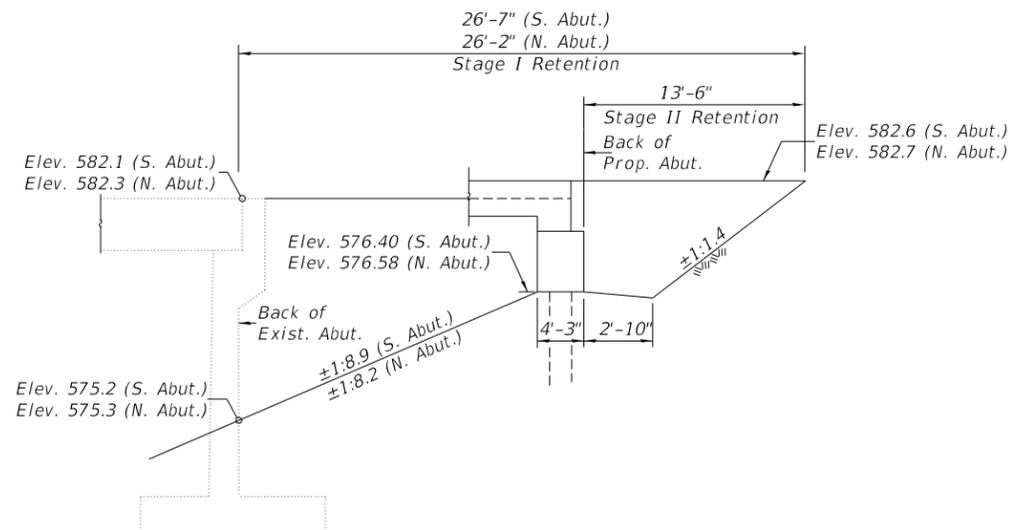


SECTION THRU INTEGRAL ABUTMENT
 (Horiz. dim. @ Rt. L's)

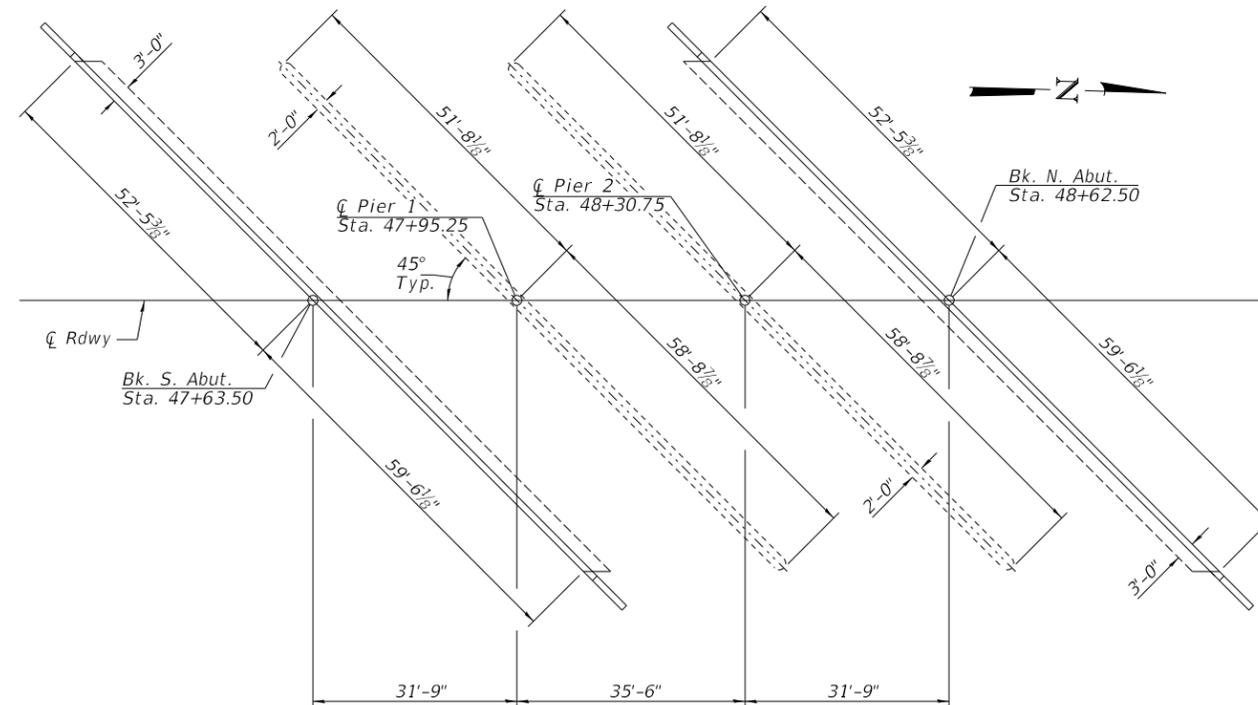
*Included in the cost of Pipe Underdrains for Structures.
 (See Special Provisions)

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 (except the northwest pipe shall turn south and the southwest pipe shall turn north 1' beyond the abutment cap and extend parallel to the roadway until intersecting with the slope). The pipes shall drain into *concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



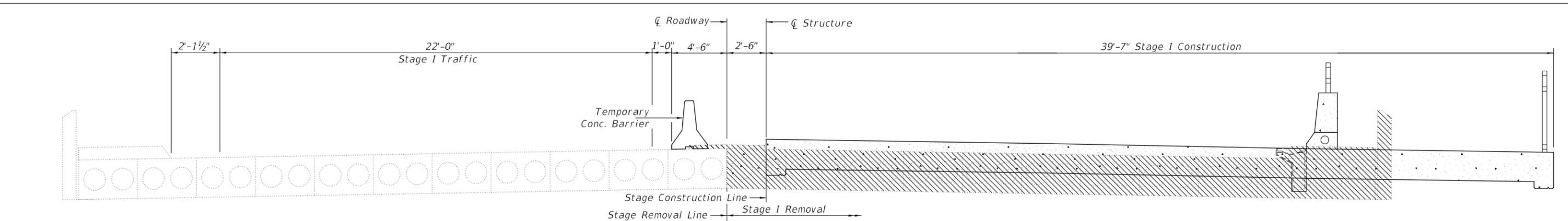
TEMPORARY SOIL RETENTION SYSTEM
 (Showing N. Abut. Looking West)
 (South Abutment is Similar)



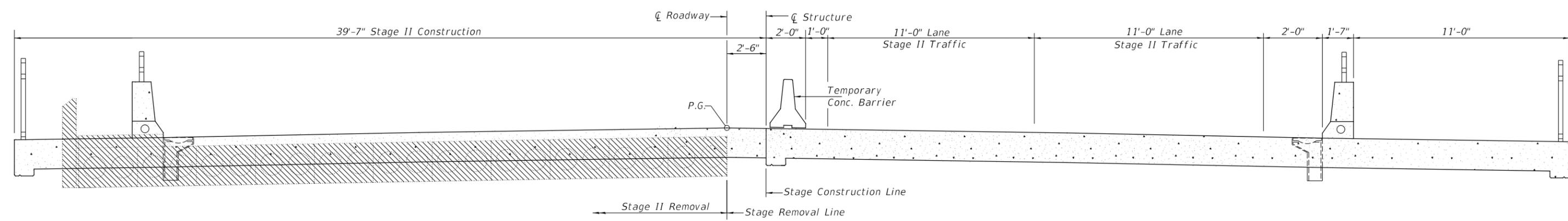
FOOTING LAYOUT

GENERAL NOTES, DETAILS
 AND BILL OF MATERIALS
 ESSINGTON ROAD OVER
 ROCK RUN NORTH
 SECTION 16-00489-00-BR
 WILL COUNTY
 STRUCTURE NO. 099-6049

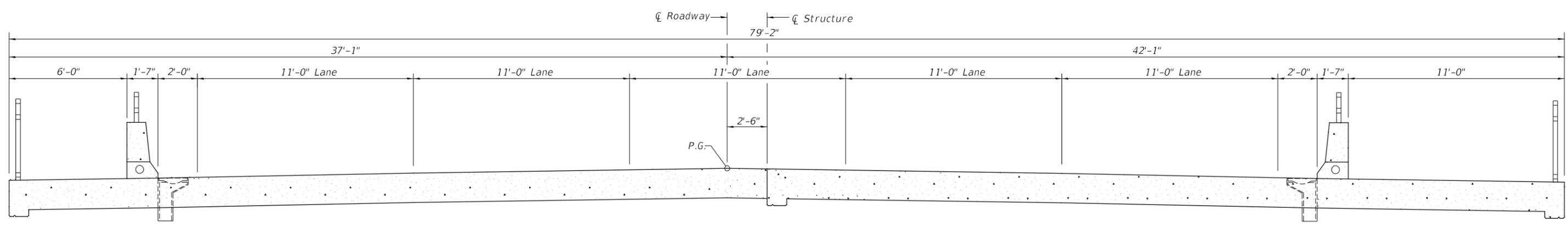
SHEET NO. 2 21 SHEETS	F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	326	16-00489-00-BR	WILL	52	28
S.N. 099-6049			CONTRACT NO. 61G21		
FED. ROAD DIST. NO. ILLINOIS			PROJECT NO. FBG 0(207)		



STAGE I
(Looking North)



STAGE II
(Looking North)

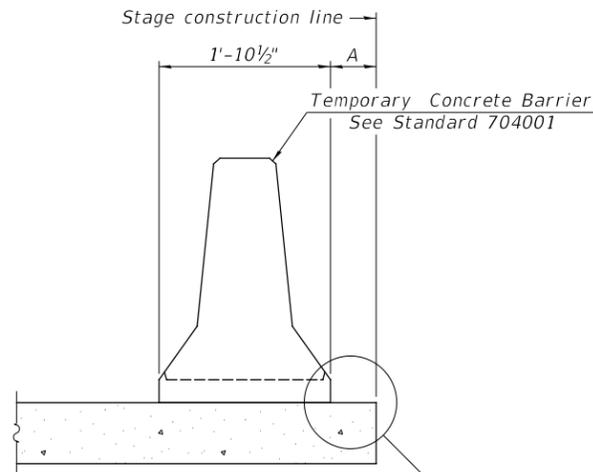


PROPOSED CROSS SECTION
(Looking North)

Notes:
 Hatched area indicates Removal of Existing Structures.
 For Temporary Concrete Barrier details, see sheet 4 of 21.
 For quantity of Temporary Concrete Barrier, see Roadway Plans.
 For Temporary Soil Retention System details, see sheet 2 of 21.

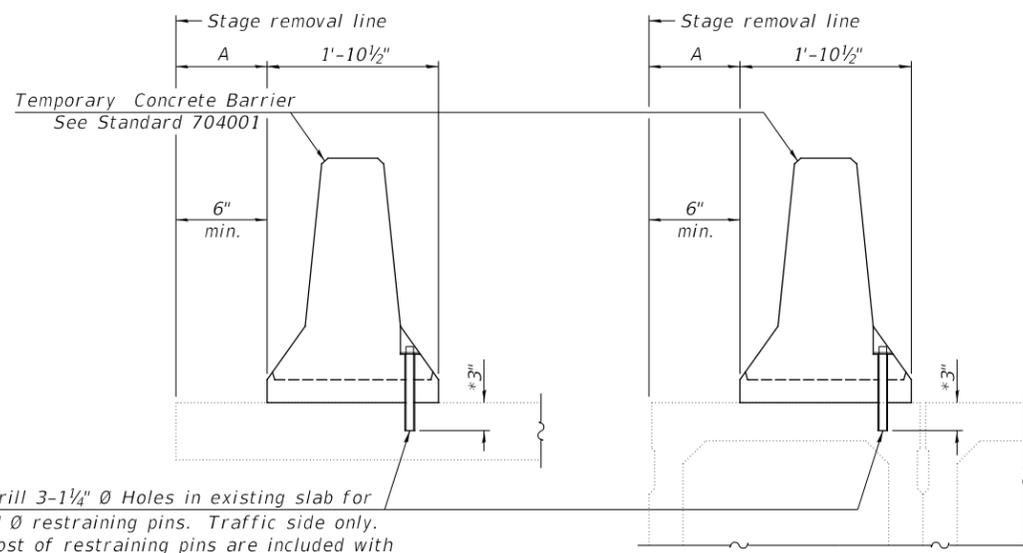
STAGE CONSTRUCTION DETAILS
ESSINGTON ROAD OVER
ROCK RUN NORTH
SECTION 16-00489-00-BR
WILL COUNTY
STRUCTURE NO. 099-6049

SHEET NO. 3	F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	326	16-00489-00-BR	WILL	52	29
S.N. 099-6049			CONTRACT NO. 61G21		
FED. ROAD DIST. NO. ILLINOIS			PROJECT NO. FBG 0(207)		



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



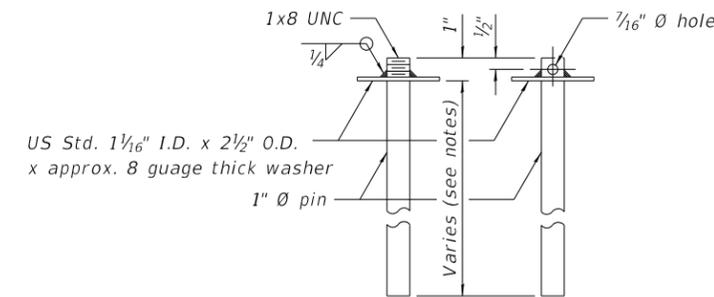
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

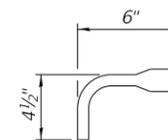
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

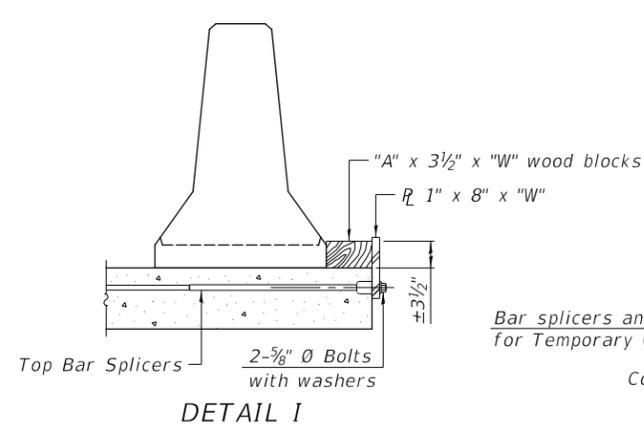
SECTIONS THRU SLAB OR DECK BEAM



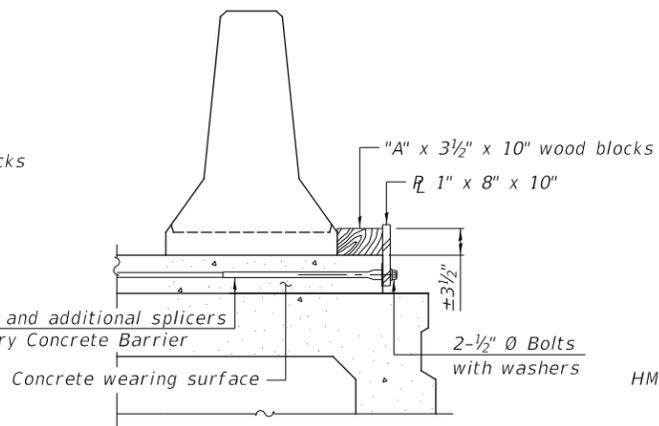
RESTRAINING PIN



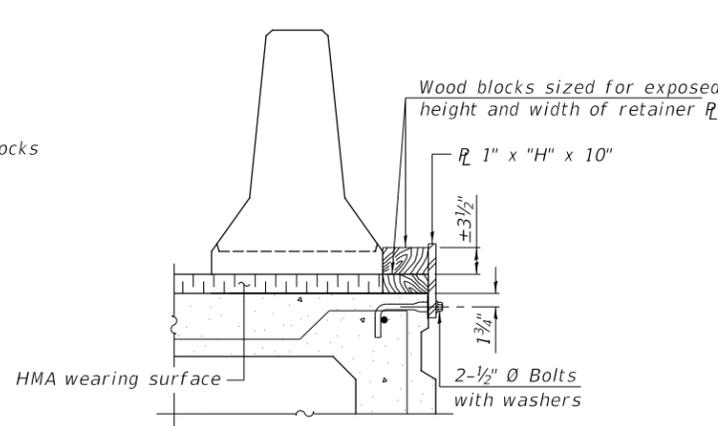
BAR SPLICER FOR #4 BAR - DETAIL III



DETAIL I



DETAIL II

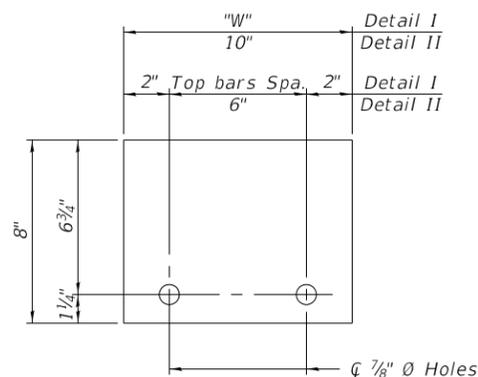


DETAIL III

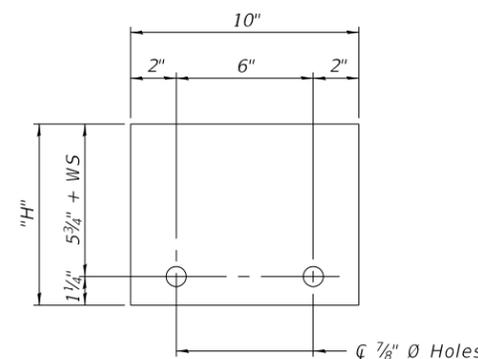
Notes:

- Cost of retainer assembly is included with Temporary Concrete Barrier.
- A retainer assembly shall be located at the approximate \bar{C} of each temporary concrete barrier.
- The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
- When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate.
- For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

- Detail I - Installation for a new bridge deck or bridge slab.
- Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
- Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.



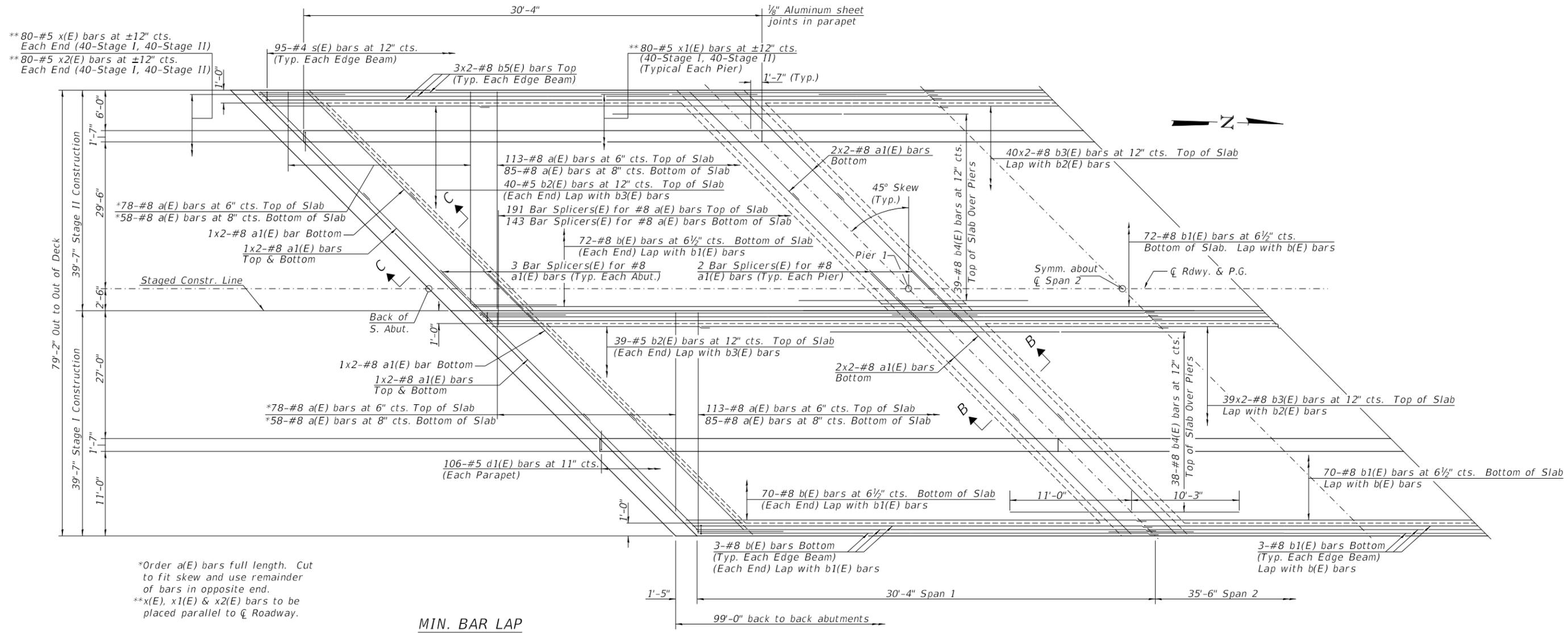
STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
ESSINGTON ROAD OVER
ROCK RUN NORTH
SECTION 16-00489-00-BR
WILL COUNTY
STRUCTURE NO. 099-6049

SHEET NO. 4 21 SHEETS	F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	326	16-00489-00-BR	WILL	52	30
S.N. 099-6049			CONTRACT NO. 61G21		
FED. ROAD DIST. NO.		ILLINOIS	PROJECT NO. FBG 0(207)		

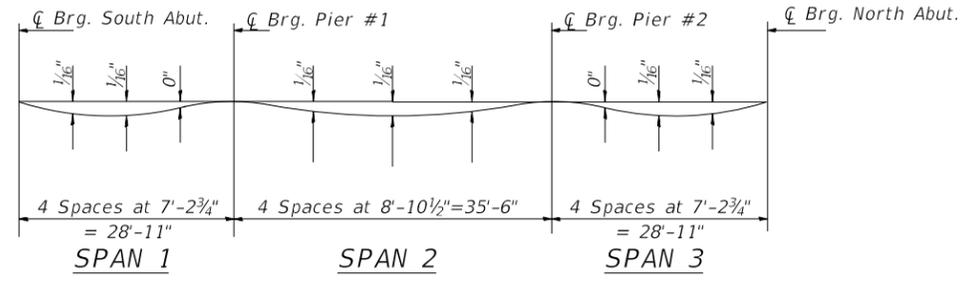


*Order a(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.
 **x(E), x1(E) & x2(E) bars to be placed parallel to \bar{C} Roadway.

MIN. BAR LAP
 #8 = 5'-4"

PARTIAL PLAN

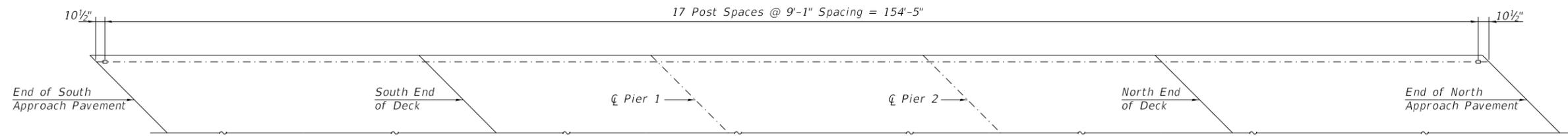
Notes:
 See sheet 6 of 21 for Sections B-B & C-C.
 See sheet 7 of 21 for bar details, parapet elevation and Bill of Material.
 See sheets 6 & 12 of 21 for rail details.
 See sheet 6 of 21 for rail post spacing.
 See sheet 1 of 21 for Drainage Scupper locations.
 See sheet 13 of 21 for Drainage Scupper details.
 Bars indicated thus 40x2 indicate 40 lines of bars with 2 lengths per line.



DEAD LOAD DEFLECTION DIAGRAM
 (Includes weight of concrete slab)

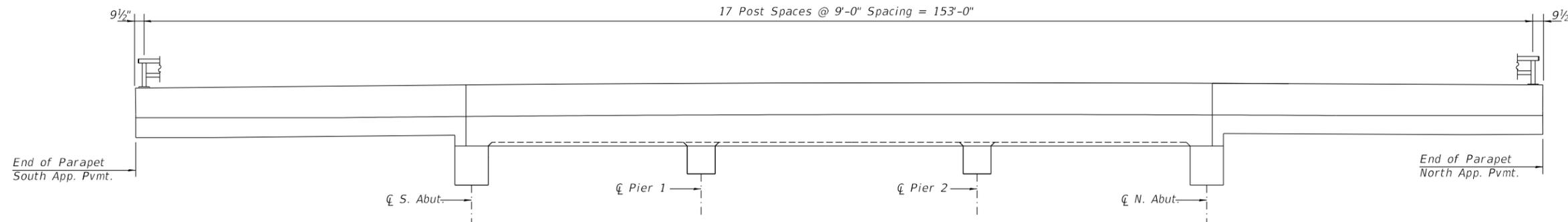
SUPERSTRUCTURE
ESSINGTON ROAD OVER
ROCK RUN NORTH
SECTION 16-00489-00-BR
WILL COUNTY
STRUCTURE NO. 099-6049

SHEET NO. 5 21 SHEETS	F.A.U. ROUTE 326	SECTION 16-00489-00-BR	COUNTY WILL	TOTAL SHEETS 52	SHEET NO. 31
	S.N. 099-6049		CONTRACT NO. 61G21		
FED. ROAD DIST. NO.		ILLINOIS	PROJECT NO. FBG 0(207)		



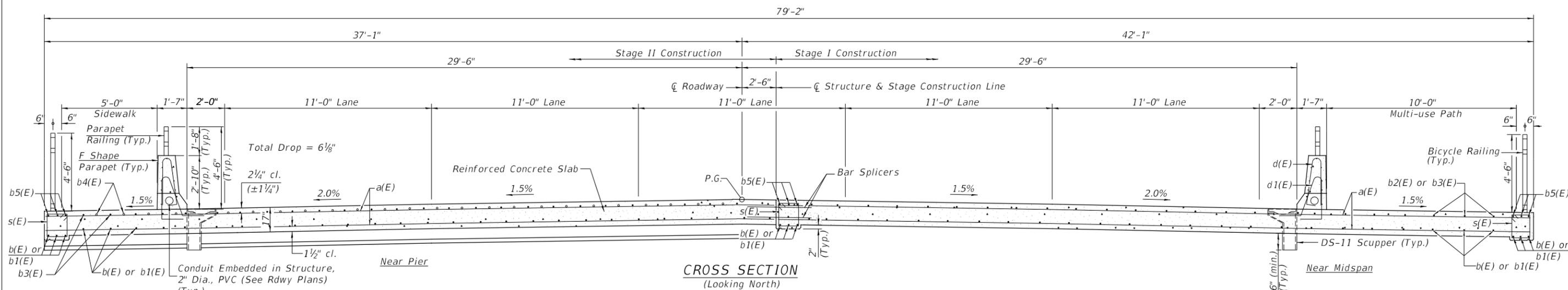
RAIL POST SPACING

(Bicycle Railing)
(West Edge of Deck Shown, East Edge of Deck Similar)

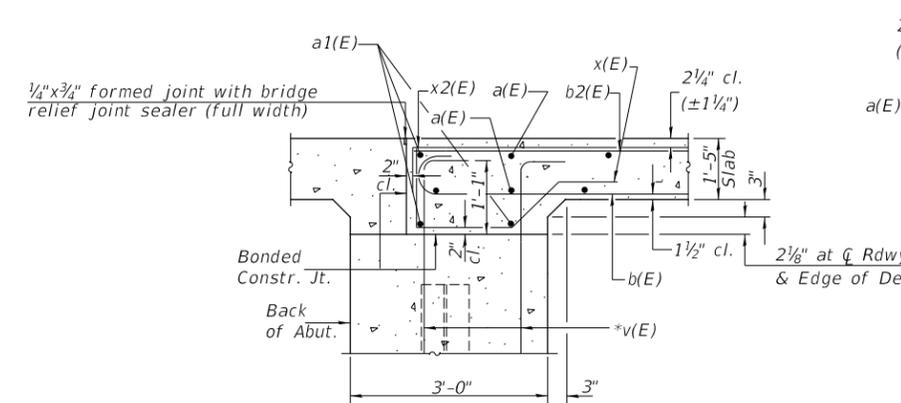


RAIL POST SPACING

(Parapet Railing)
(West Parapet Shown, East Parapet Similar)

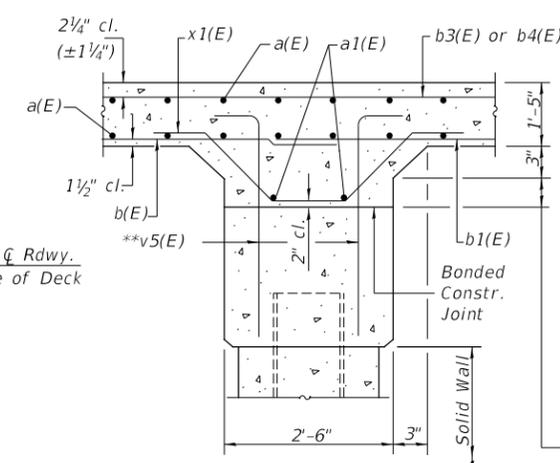


CROSS SECTION
(Looking North)



SECTION C-C

All dimensions are at right angles to abutment.
*v(E) bars billed with abutments.
See sheets 14-15 of 21.



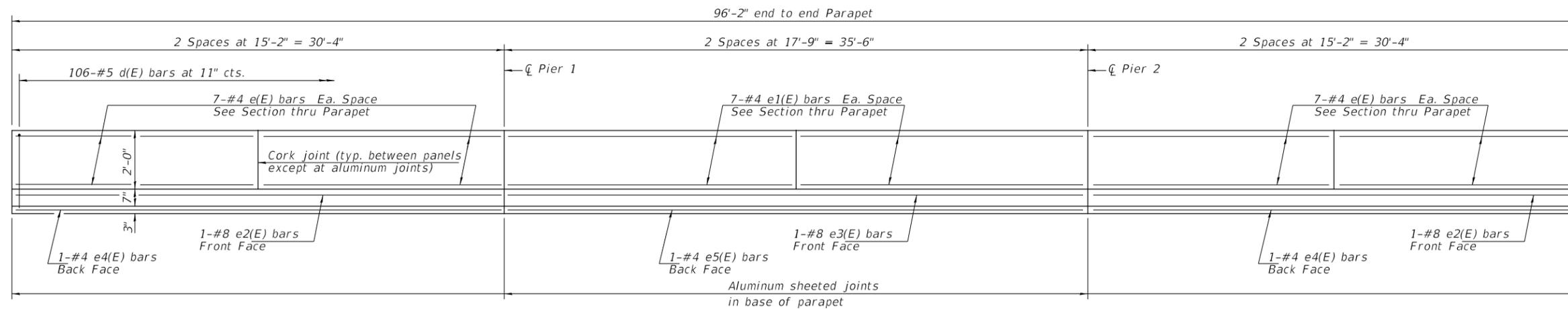
SECTION B-B

All dimensions are at right angles to pier.
**v5(E) bars billed with piers. See sheet 16-17 of 21.

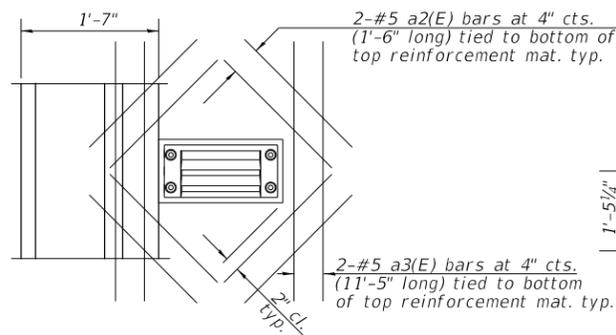
Notes:
See sheet 7 of 21 for bar details, parapet elevation and Bill of Material.
See sheet 12 of 21 for rail details.
See sheet 1 of 21 for Drainage Scupper locations.
See sheet 13 of 21 for Drainage Scupper details.

SUPERSTRUCTURE DETAILS
ESSINGTON ROAD OVER
ROCK RUN NORTH
SECTION 16-00489-00-BR
WILL COUNTY
STRUCTURE NO. 099-6049

SHEET NO. 6	F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	326	16-00489-00-BR	WILL	52	32
21 SHEETS	S.N. 099-6049		CONTRACT NO. 61G21		
	FED. ROAD DIST. NO.	ILLINOIS	PROJECT NO. FBG 0(207)		

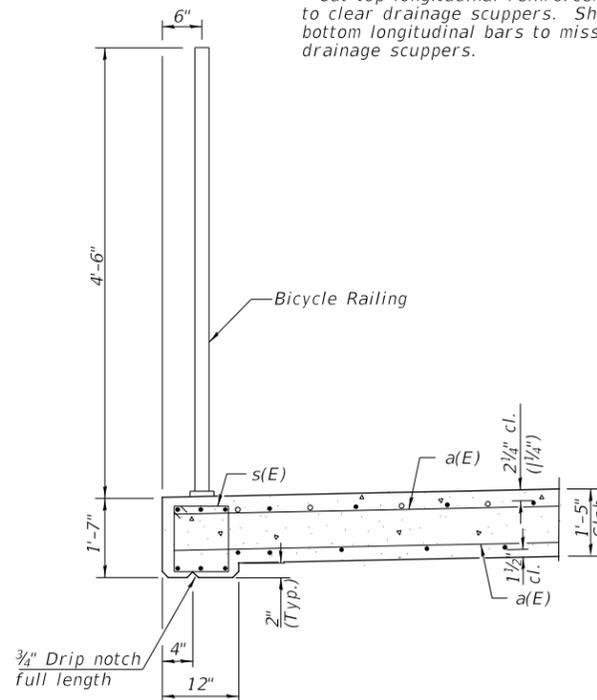


INSIDE ELEVATION OF PARAPET

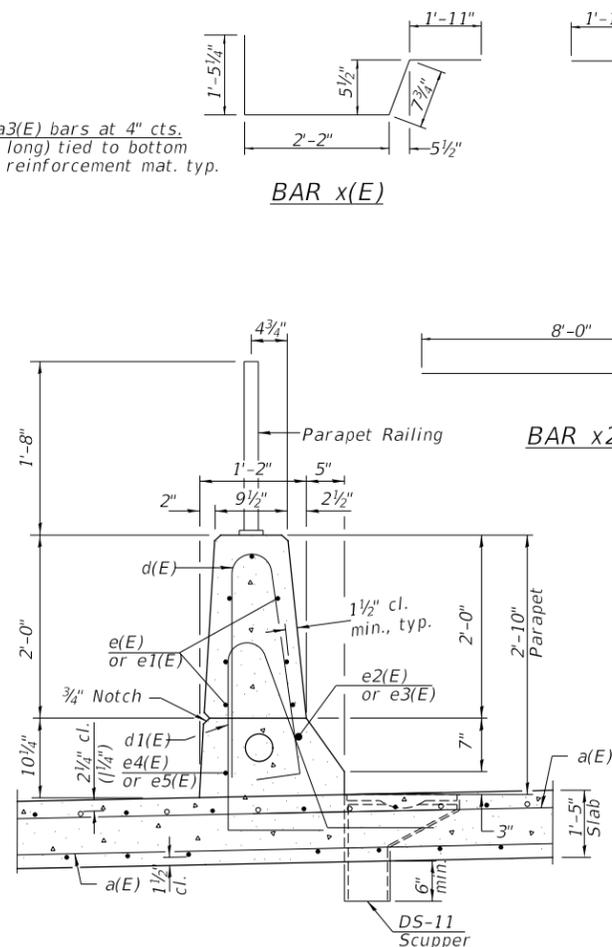


PLAN - REINFORCEMENT TREATMENT AT SCUPPERS

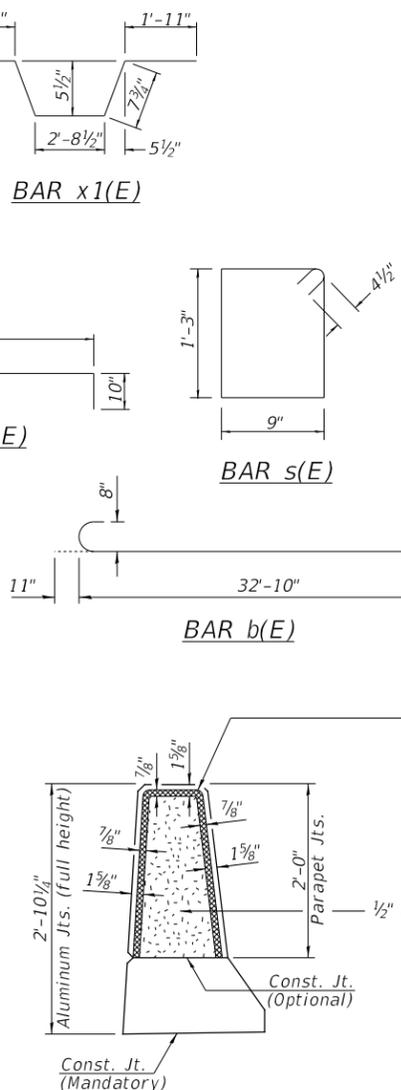
Note:
Cut top longitudinal reinforcement to clear drainage scuppers. Shift bottom longitudinal bars to miss drainage scuppers.



SECTION THRU OVERHANG



SECTION THRU PARAPET



PARAPET JOINT DETAILS

Notes:
See sheets 6 & 12 of 21 for rail details.
See sheet 6 of 21 for rail post spacing.
See sheet 1 of 21 for drainage scupper spacing.
See sheet 13 of 21 for drainage scupper details.
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 Standard Specifications and the color shall be gray.

SUPERSTRUCTURE BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	668	#8	39'-4"	—
a1(E)	40	#8	30'-6"	—
a2(E)	32	#5	1'-6"	—
a3(E)	16	#5	11'-5"	—
b(E)	302	#8	33'-9"	—
b1(E)	151	#8	40'-10"	—
b2(E)	158	#5	15'-9"	—
b3(E)	158	#8	40'-2"	—
b4(E)	154	#8	21'-3"	—
b5(E)	18	#8	50'-7"	—
d(E)	212	#5	5'-7"	⏏
d1(E)	212	#5	6'-10"	⏏
e(E)	56	#4	14'-11"	—
e1(E)	28	#4	17'-6"	—
e2(E)	4	#8	30'-1"	—
e3(E)	2	#8	35'-3"	—
e4(E)	4	#4	30'-1"	—
e5(E)	2	#4	35'-3"	—
s(E)	285	#4	4'-9"	⏏
x(E)	160	#5	6'-2"	⏏
x1(E)	160	#5	7'-10"	⏏
x2(E)	160	#5	8'-10"	⏏
Concrete Superstructure Reinforcement Bars, Epoxy Coated			CU YD	439.6
			POUND	157,020

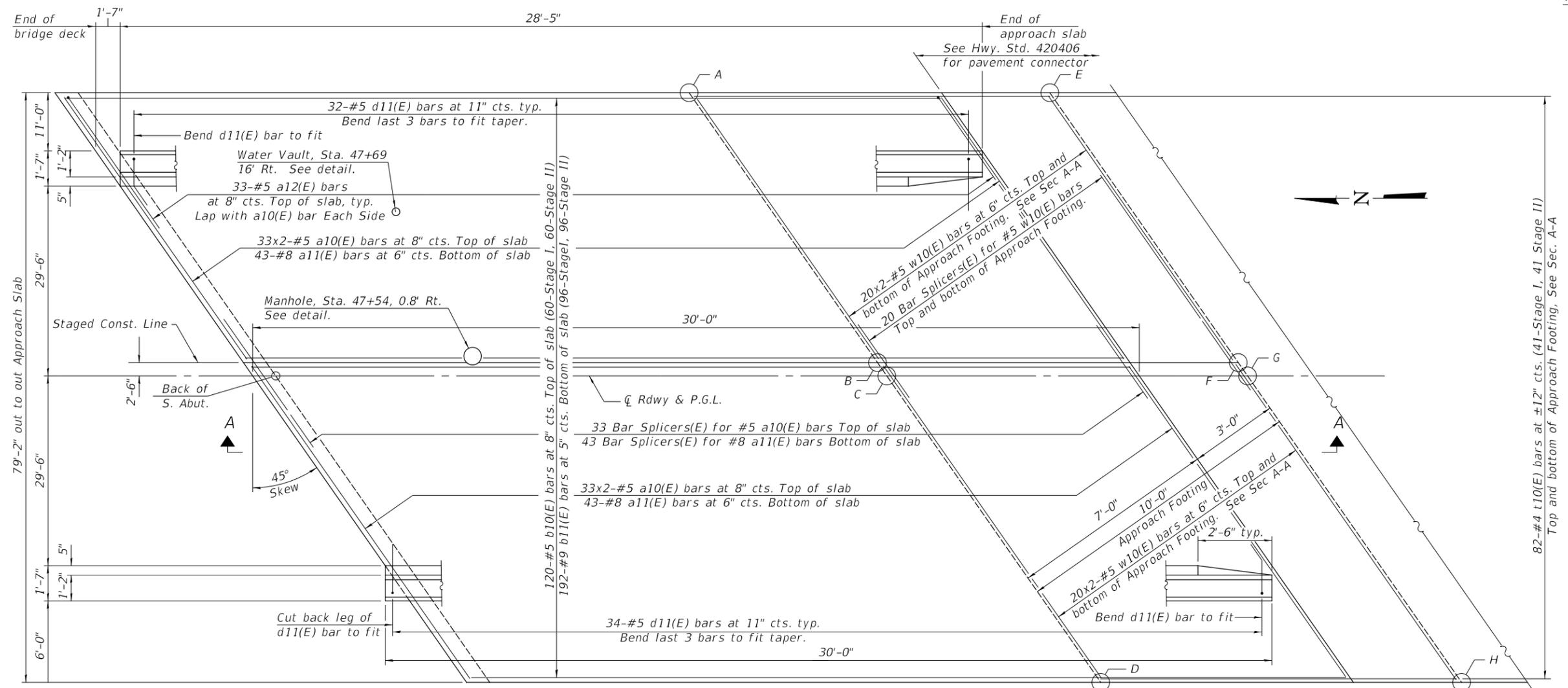
① See Special Provisions

SUPERSTRUCTURE DETAILS
ESSINGTON ROAD OVER
ROCK RUN NORTH
SECTION 16-00489-00-BR
WILL COUNTY
STRUCTURE NO. 099-6049

SHEET NO. 7 21 SHEETS	F.A.U. ROUTE 326	SECTION 16-00489-00-BR	COUNTY WILL	TOTAL SHEETS 52	SHEET NO. 33
	S.N. 099-6049		CONTRACT NO. 61G21		
FED. ROAD DIST. NO.		ILLINOIS	PROJECT NO. FBG 0(207)		

TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

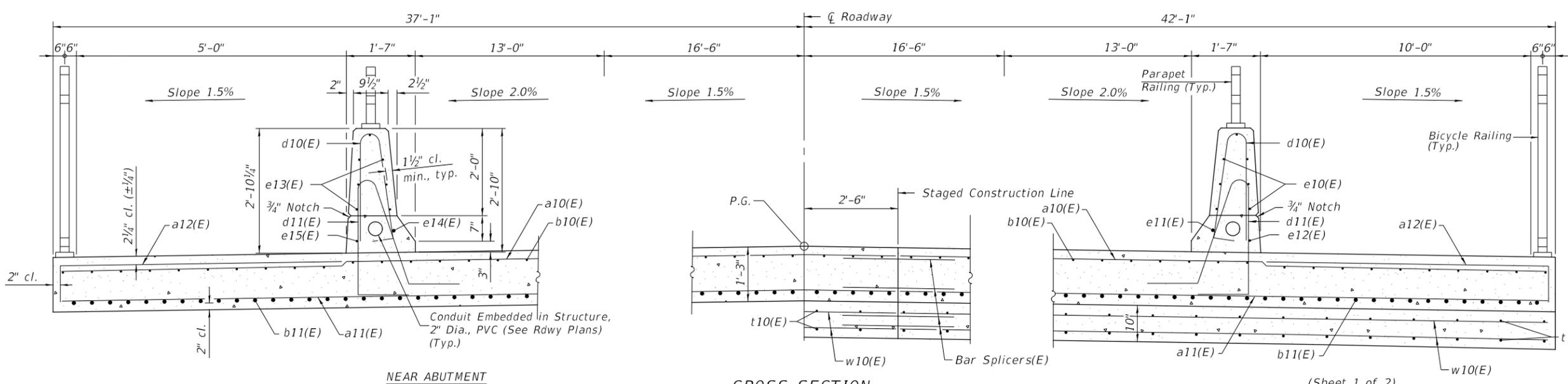
Point	Top	Bottom
A	580.76	579.93
B	581.19	580.36
C	581.21	580.38
D	580.32	579.49
E	580.70	579.87
F	581.09	580.26
G	581.11	580.28
H	580.21	579.38



MIN. BAR LAP
#5 = 3'-6"

Note:
See sheet 9 of 21 for reinforcement detail at manhole and water vault.

PLAN



CROSS SECTION
(Looking North)

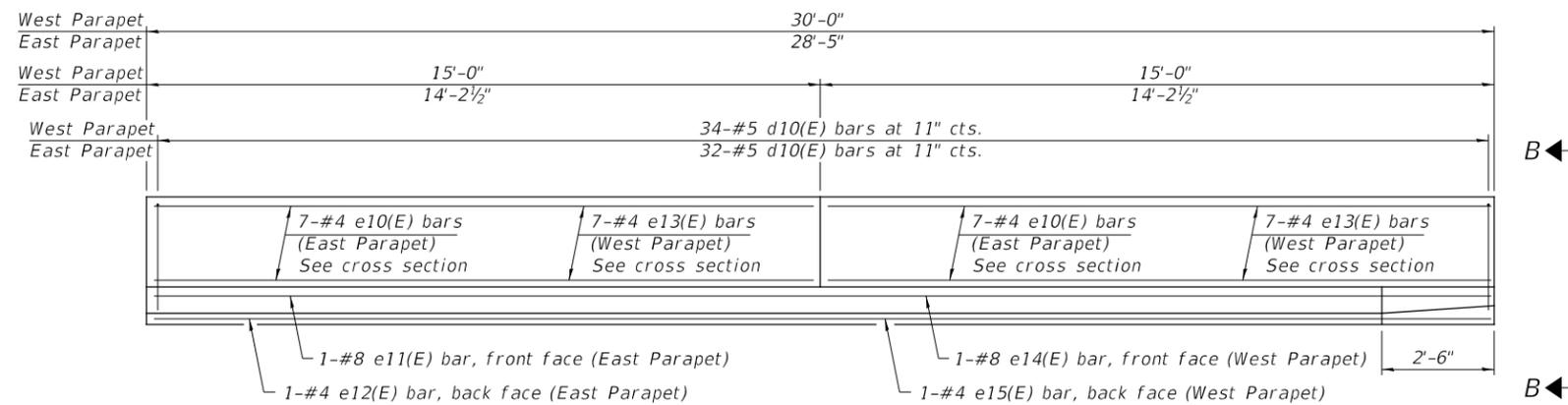
SOUTH APPROACH
SLAB DETAILS
ESSINGTON ROAD OVER
ROCK RUN NORTH
SECTION 16-00489-00-BR
WILL COUNTY
STRUCTURE NO. 099-6049

(Sheet 1 of 2)

SHEET NO. 8 21 SHEETS	F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	326	16-00489-00-BR	WILL	52	34
S.N. 099-6049			CONTRACT NO. 61G21		
FED. ROAD DIST. NO.		ILLINOIS	PROJECT NO. FBG 0(207)		

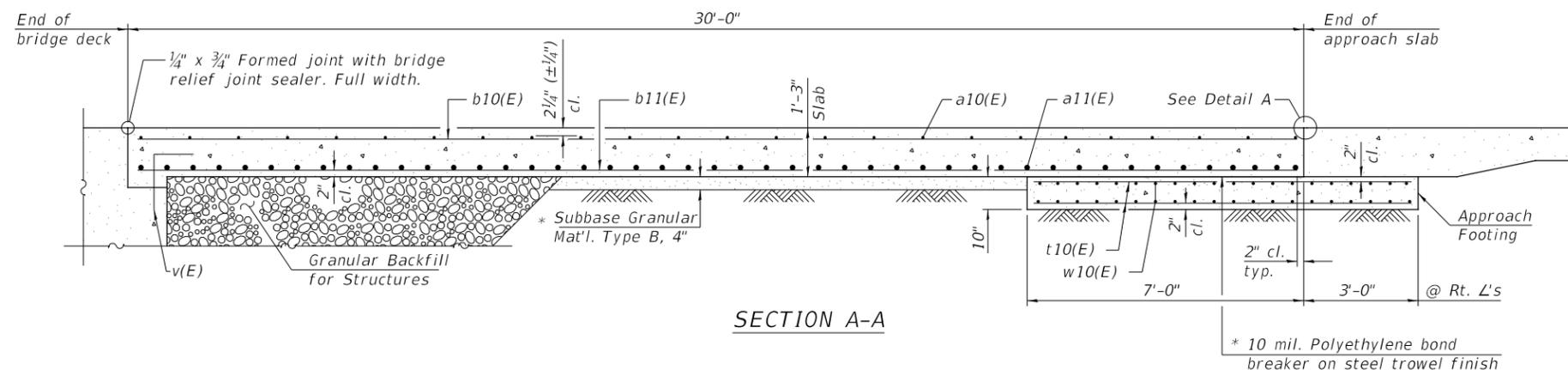
Notes:

Parapet concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 See sheet 2 of 21 For granular backfill for structures and drainage treatment details.
 See sheet 6 & 12 of 21 for rail details.
 See sheet 14 of 21 for v(E) bar detail.
 See sheet 6-7 of 21 for parapet details.
 See sheet 6 of 21 for rail post spacing.
 Bars indicated thus 33x2 indicates 33 line of bars with 2 bars per line.



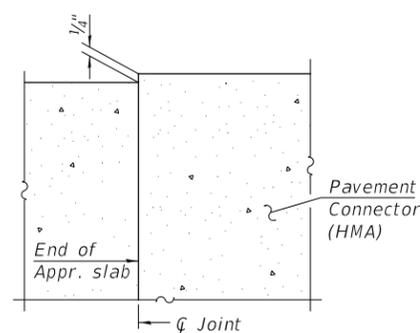
INSIDE ELEVATION OF PARAPET

(East Parapet Shown, West Parapet Similar)

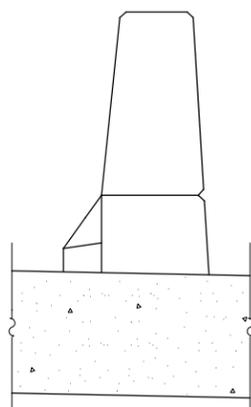


SECTION A-A

* Cost included with Concrete Superstructure (Approach Slab).



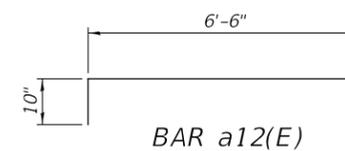
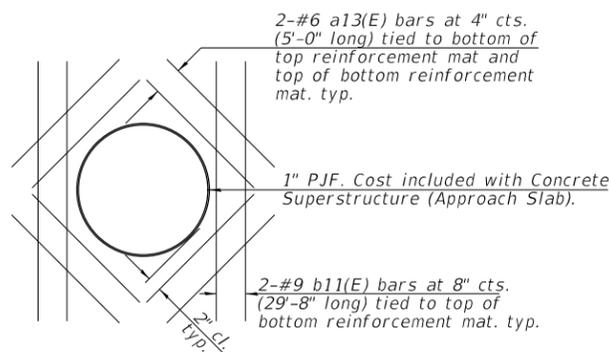
DETAIL A
(@ Rt. L's)



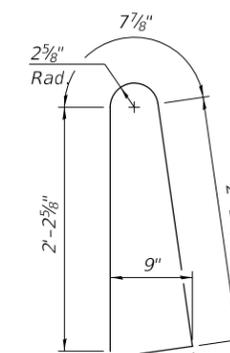
VIEW B-B

PLAN - REINFORCEMENT TREATMENT AT WATER VAULT & MANHOLE

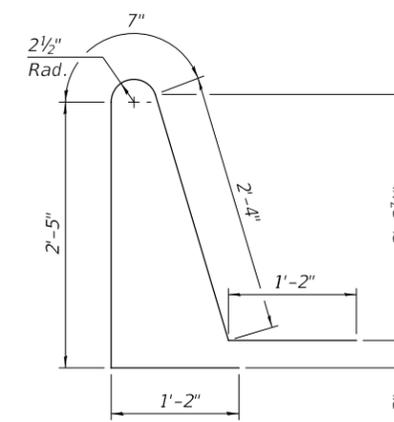
Note:
 Cut top & bottom longitudinal & transverse reinforcement to clear water vault/manhole.



BAR a12(E)



BAR d10(E)



BAR d11(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a10(E)	132	#5	29'-6"	U	
a11(E)	86	#8	55'-6"	U	
a12(E)	66	#5	7'-4"	U	
a13(E)	32	#6	5'-0"	U	
b10(E)	120	#5	29'-8"	U	
b11(E)	200	#9	29'-8"	U	
d10(E)	66	#5	5'-7"	U	
d11(E)	66	#5	7'-8"	U	
e10(E)	14	#4	13'-10"	U	
e11(E)	1	#8	28'-1"	U	
e12(E)	1	#4	28'-1"	U	
e13(E)	14	#4	14'-8"	U	
e14(E)	1	#8	29'-8"	U	
e15(E)	1	#4	29'-8"	U	
t10(E)	164	#4	13'-8"	U	
w10(E)	160	#5	29'-6"	U	
Concrete Superstructure				Cu. Yd.	6.7
Concrete Superstructure (Approach Slab)				Cu. Yd.	112.4
Concrete Structures				Cu. Yd.	34.6
Reinforcement Bars, Epoxy Coated				Pound	49,230

- ① Concrete Superstructure Cu. Yd. 6.7
- ① Concrete Superstructure (Approach Slab) Cu. Yd. 112.4
- Concrete Structures Cu. Yd. 34.6
- Reinforcement Bars, Epoxy Coated Pound 49,230
- ① See Special Provisions

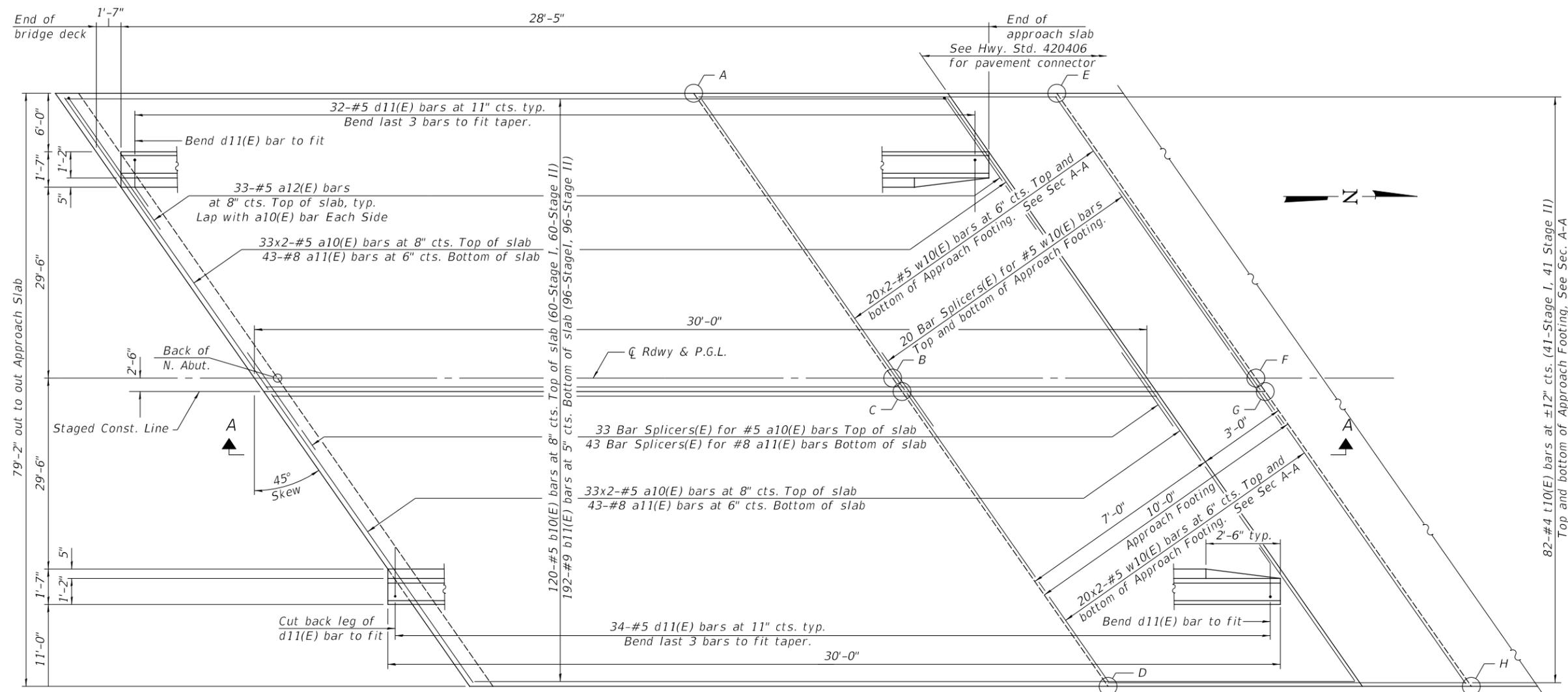
**SOUTH APPROACH SLAB DETAILS
 ESSINGTON ROAD OVER
 ROCK RUN NORTH
 SECTION 16-00489-00-BR
 WILL COUNTY
 STRUCTURE NO. 099-6049**

(Sheet 2 of 2)

SHEET NO. 9	F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21 SHEETS	326	16-00489-00-BR	WILL	52
S.N. 099-6049			CONTRACT NO. 61G21		
FED. ROAD DIST. NO.		ILLINOIS	PROJECT NO. FBG 0(207)		

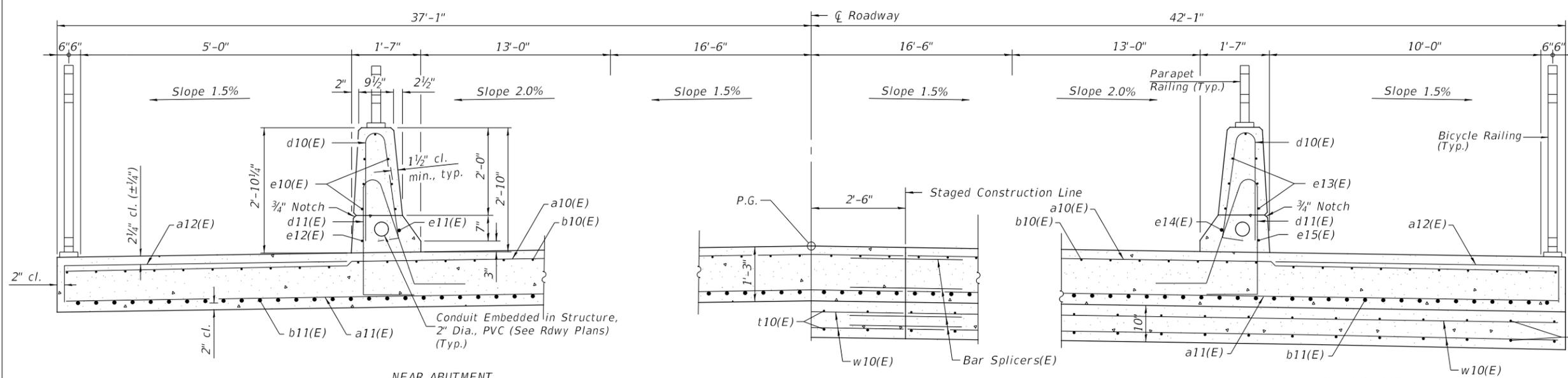
TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

Point	Top	Bottom
A	580.91	580.08
B	581.41	580.58
C	581.37	580.54
D	580.64	579.81
E	580.87	580.04
F	581.37	580.54
G	581.33	580.50
H	580.63	579.80



PLAN

MIN. BAR LAP
#5 = 3'-6"



NEAR ABUTMENT

CROSS SECTION
(Looking North)

AT APPROACH FOOTING

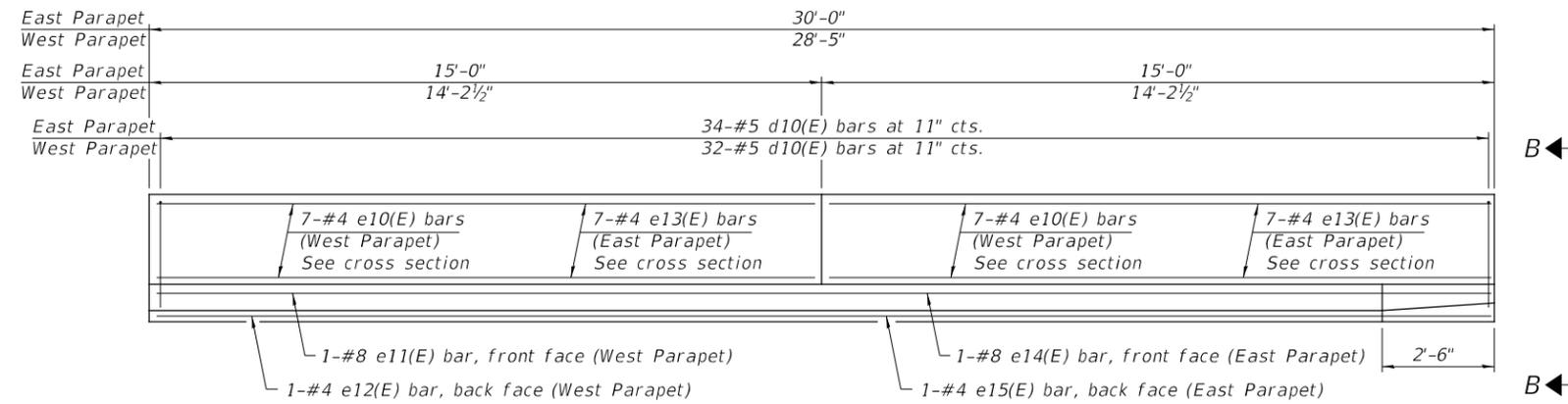
(Sheet 1 of 2)

NORTH APPROACH
SLAB DETAILS
ESSINGTON ROAD OVER
ROCK RUN NORTH
SECTION 16-00489-00-BR
WILL COUNTY
STRUCTURE NO. 099-6049

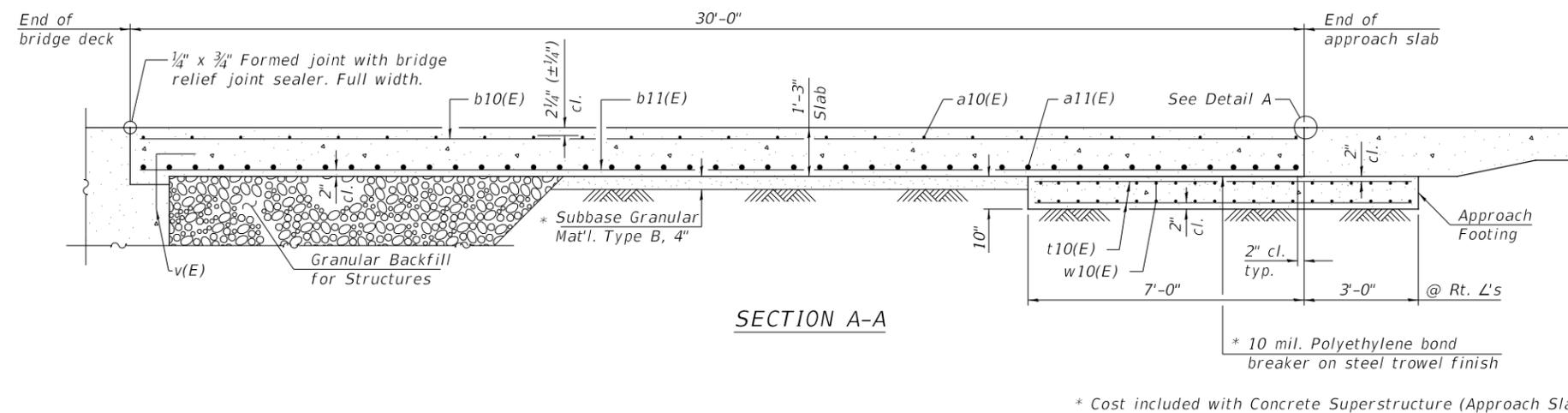
SHEET NO. 10	F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	326	16-00489-00-BR	WILL	52	36
21 SHEETS	S.N. 099-6049		CONTRACT NO. 61G21		
	FED. ROAD DIST. NO.	ILLINOIS	PROJECT NO. FBG 0(207)		

Notes:

Parapet concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 See sheet 2 of 21 For granular backfill for structures and drainage treatment details.
 See sheet 6 & 12 of 21 for rail details.
 See sheet 15 of 21 for v(E) bar detail.
 See sheet 6-7 of 21 for parapet details.
 See sheet 6 of 21 for rail post spacing.
 Bars indicated thus 33x2 indicates 33 line of bars with 2 bars per line.



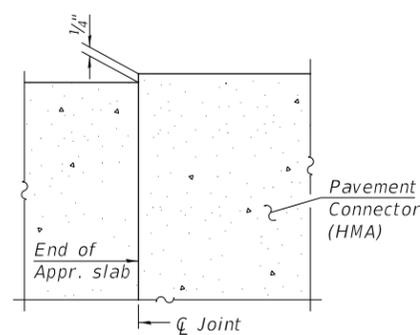
INSIDE ELEVATION OF PARAPET
 (West Parapet Shown, East Parapet Similar)



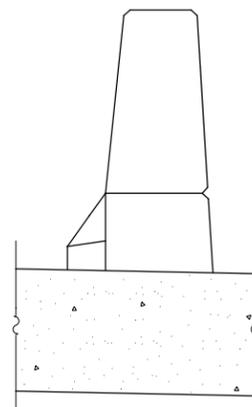
SECTION A-A



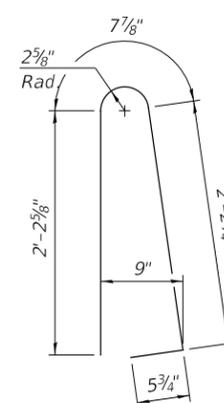
BAR a12(E)



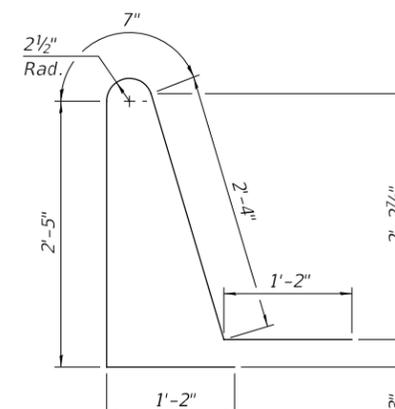
DETAIL A
 (@ Rt. L's)



VIEW B-B



BAR d10(E)



BAR d11(E)

BILL OF MATERIAL

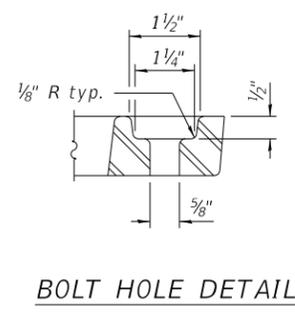
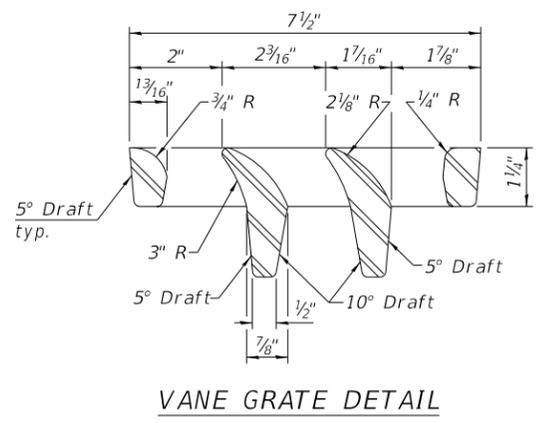
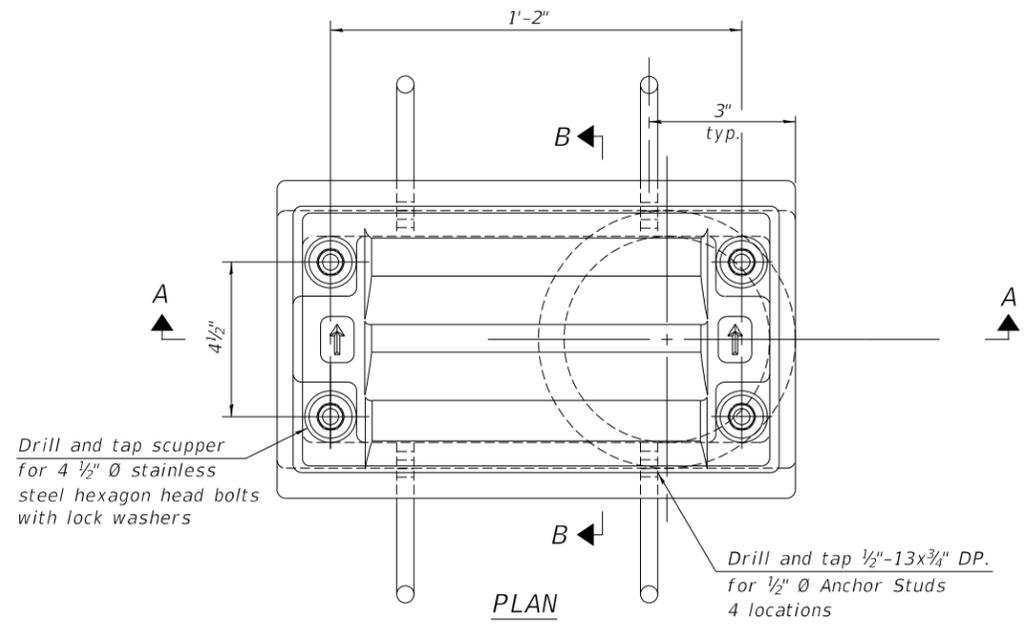
Bar	No.	Size	Length	Shape	
a10(E)	132	#5	29'-6"	—	
a11(E)	86	#8	55'-6"	—	
a12(E)	66	#5	7'-4"	—	
b10(E)	120	#5	29'-8"	—	
b11(E)	192	#9	29'-8"	—	
d10(E)	66	#5	5'-7"	⌋	
d11(E)	66	#5	7'-8"	⌋	
e10(E)	14	#4	13'-10"	—	
e11(E)	1	#8	28'-1"	—	
e12(E)	1	#4	28'-1"	—	
e13(E)	14	#4	14'-8"	—	
e14(E)	1	#8	29'-8"	—	
e15(E)	1	#4	29'-8"	—	
t10(E)	164	#4	13'-8"	—	
w10(E)	160	#5	29'-6"	—	
① Concrete Superstructure				Cu. Yd.	6.7
① Concrete Superstructure (Approach Slab)				Cu. Yd.	112.4
Concrete Structures				Cu. Yd.	34.6
Reinforcement Bars, Epoxy Coated				Pound	48,180

① See Special Provisions

NORTH APPROACH SLAB DETAILS
ESSINGTON ROAD OVER
ROCK RUN NORTH
SECTION 16-00489-00-BR
WILL COUNTY
STRUCTURE NO. 099-6049

(Sheet 2 of 2)

SHEET NO. 11	F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	326	16-00489-00-BR	WILL	52	37
21 SHEETS	S.N. 099-6049		CONTRACT NO. 61G21		
	FED. ROAD DIST. NO.	ILLINOIS	PROJECT NO. FBG 0(207)		



Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

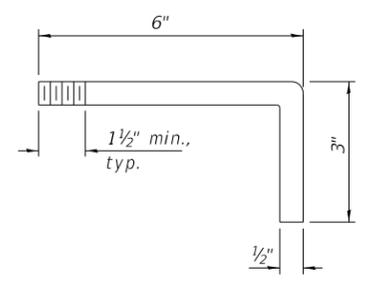
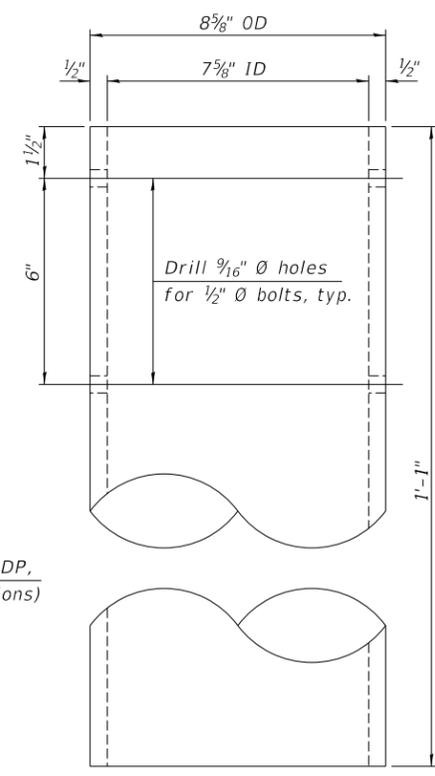
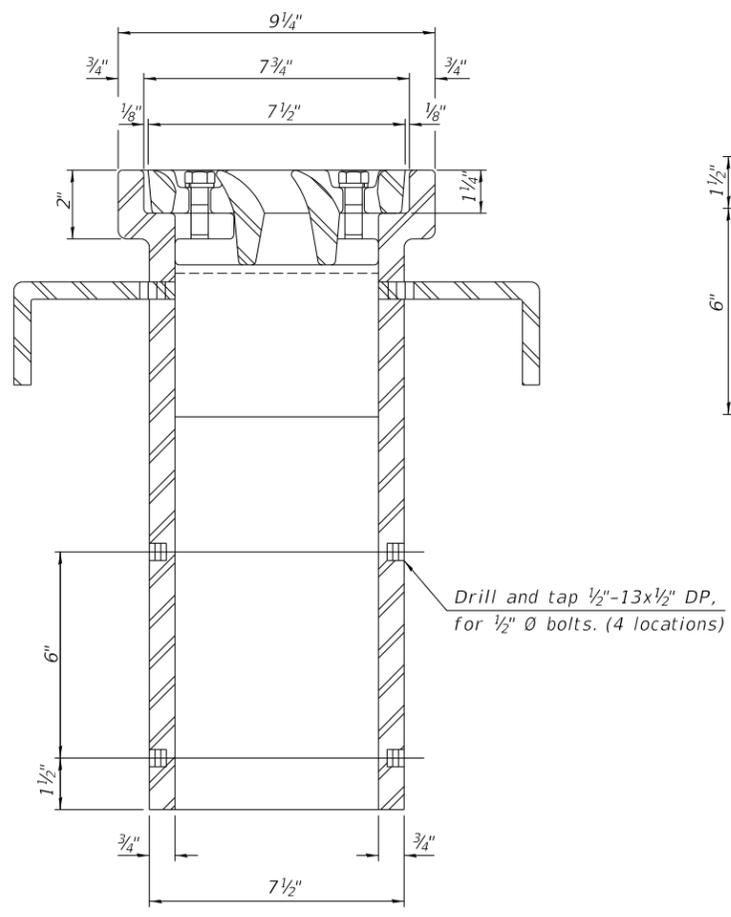
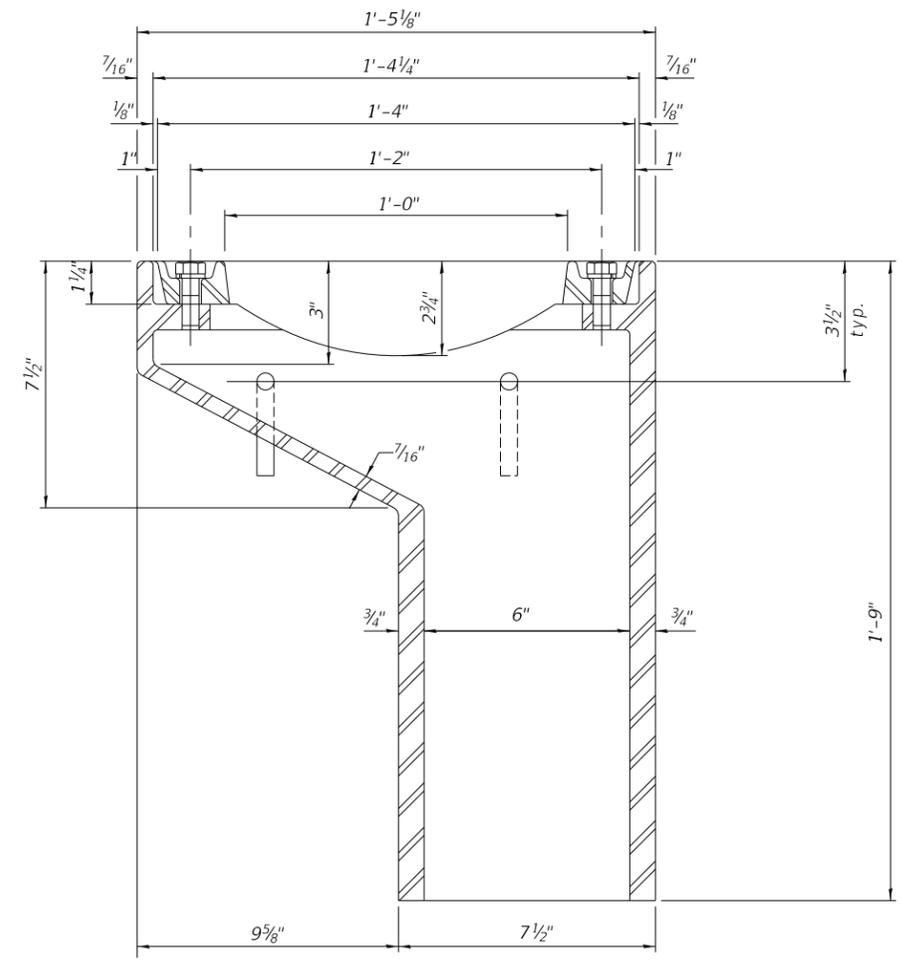
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



BILL OF MATERIAL

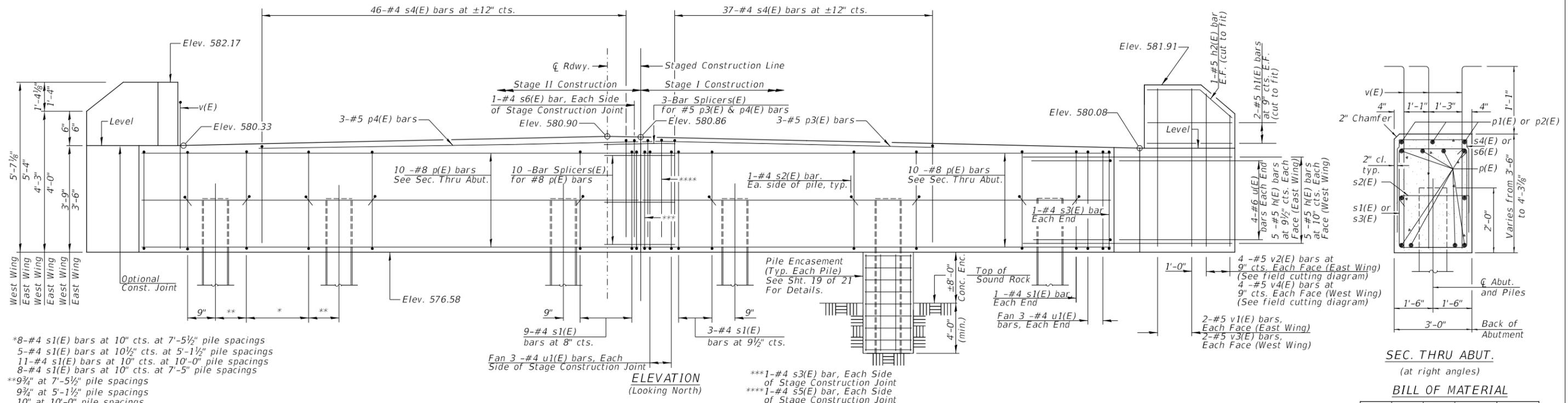
ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	4

See sheet 1 of 21 for scupper location relative to parapet.

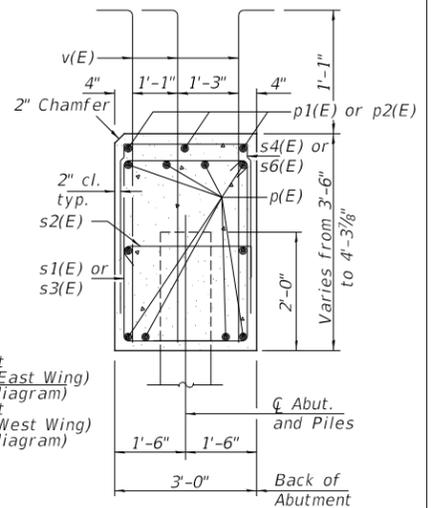
DRAINAGE SCUPPER, DS-11
ESSINGTON ROAD OVER
ROCK RUN NORTH
SECTION 16-00489-00-BR
WILL COUNTY
STRUCTURE NO. 099-6049

SHEET NO. 13	F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	326	16-00489-00-BR	WILL	52	39
S.N. 099-6049			CONTRACT NO. 61G21		
FED. ROAD DIST. NO.		ILLINOIS	PROJECT NO. FBG 0(207)		

Notes:
See sheet 19 of 21 for pile details.
All edges shall have standard 3/4" Chamfer.
E.F.: Each Face



*8-#4 s1(E) bars at 10" cts. at 7'-5 1/2" pile spacings
5-#4 s1(E) bars at 10 1/2" cts. at 5'-1 1/2" pile spacings
11-#4 s1(E) bars at 10" cts. at 10'-0" pile spacings
8-#4 s1(E) bars at 10" cts. at 7'-5" pile spacings
**9 3/4" at 7'-5 1/2" pile spacings
9 3/4" at 5'-1 1/2" pile spacings
10" at 10'-0" pile spacings
9 1/2" at 7'-5" pile spacings



SEC. THRU ABUT.
(at right angles)

BILL OF MATERIAL

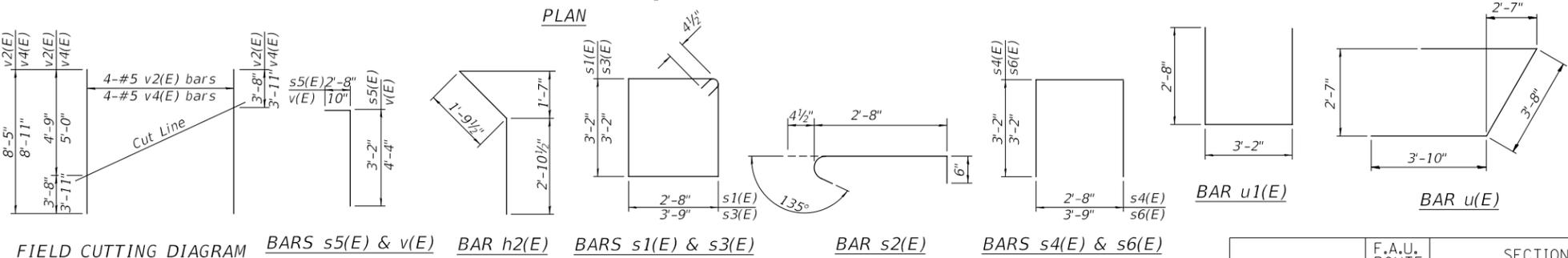
Bar	No.	Size	Length	Shape
h(E)	20	#5	11'-2"	—
h1(E)	8	#5	4'-5"	—
h2(E)	4	#5	4'-8"	—
p(E)	20	#8	55'-6"	—
p3(E)	3	#5	38'-3"	—
p4(E)	3	#5	47'-9"	—
s1(E)	115	#4	12'-5"	□
s2(E)	30	#4	3'-7"	□
s3(E)	4	#4	14'-7"	□
s4(E)	83	#4	9'-0"	□
s5(E)	2	#4	5'-10"	□
s6(E)	2	#4	10'-1"	□
u(E)	8	#6	11'-4"	—
u1(E)	12	#4	8'-6"	—
v(E)	342	#5	5'-2"	—
v1(E)	4	#5	4'-11"	—
v2(E)	4	#5	8'-5"	—
v3(E)	4	#5	5'-3"	—
v4(E)	4	#5	8'-11"	—
Structure Excavation			Cu. Yd.	175
Concrete Structures			Cu. Yd.	51.0
Reinforcement Bars, Epoxy Coated			Pound	7,270
Furnishing Steel Piles, HP10x42			Foot	210
Concrete Encasement			Cu. Yd.	14.0
Setting Piles in Rock			Each	15

① See Special Provisions.

NORTH ABUTMENT
ESSINGTON ROAD OVER
ROCK RUN NORTH
SECTION 16-00489-00-BR
WILL COUNTY
STRUCTURE NO. 099-6049

PILE DATA

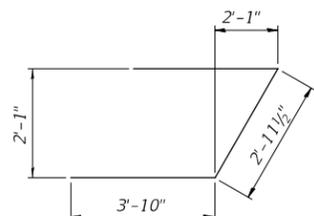
Type: Steel HP10x42
Nominal Required Bearing: Set in Rock (335 kips)
Factored Resistance Available: Set in Rock (184 kips)
Est. Length: 14'
No. Required: 15



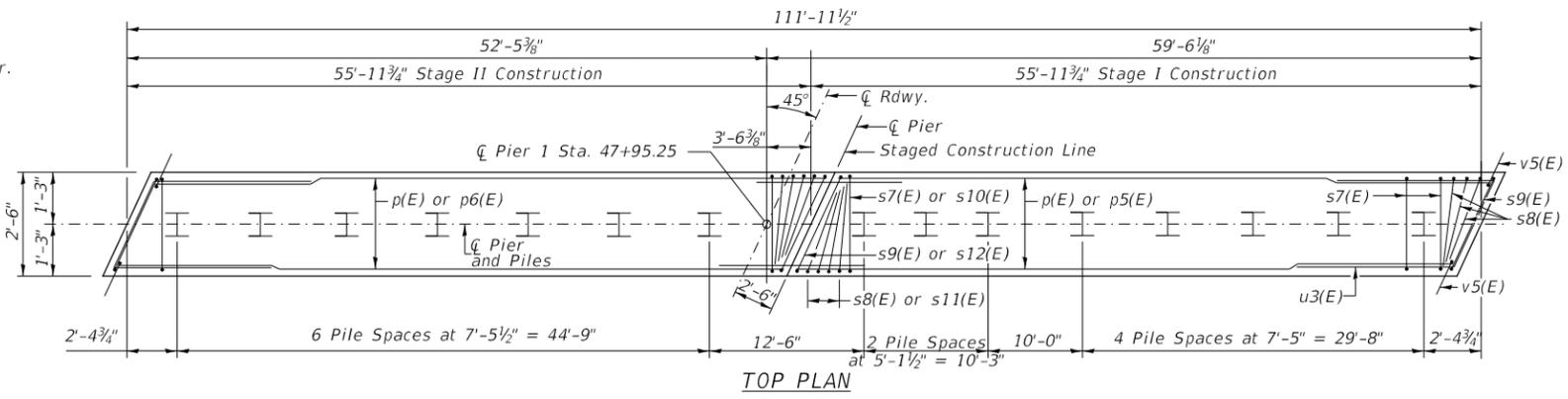
SHEET NO. 15 21 SHEETS	F.A.U. ROUTE 326	SECTION 16-00489-00-BR	COUNTY WILL	TOTAL SHEETS 52	SHEET NO. 41
	S.N. 099-6049		CONTRACT NO. 61G21		
FED. ROAD DIST. NO.		ILLINOIS	PROJECT NO. FBG 0(207)		

NOTES

All edges shall have standard 3/4" chamfer.
See Sheet 19 of 21 for Pile Details.



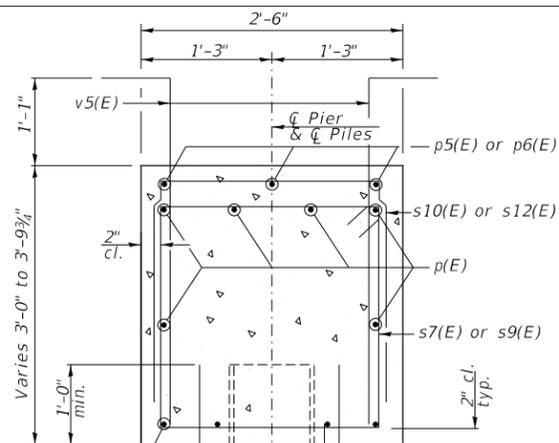
BAR u3(E)



TOP PLAN



BAR s13(E)

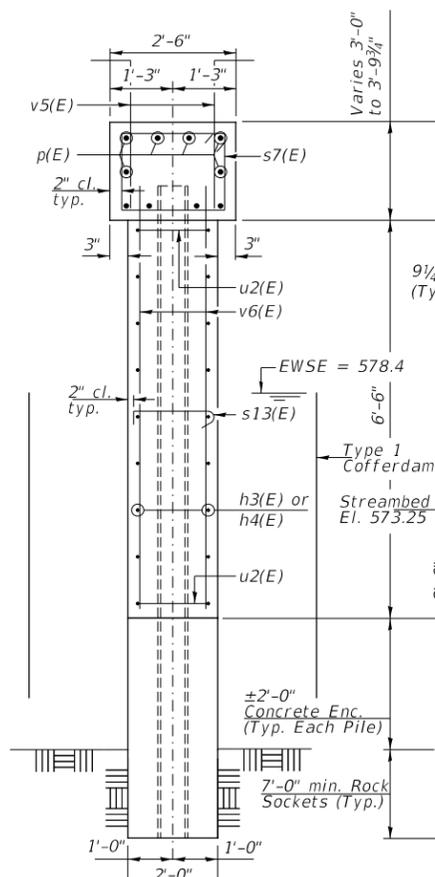


SECTION A-A
(at right angles)

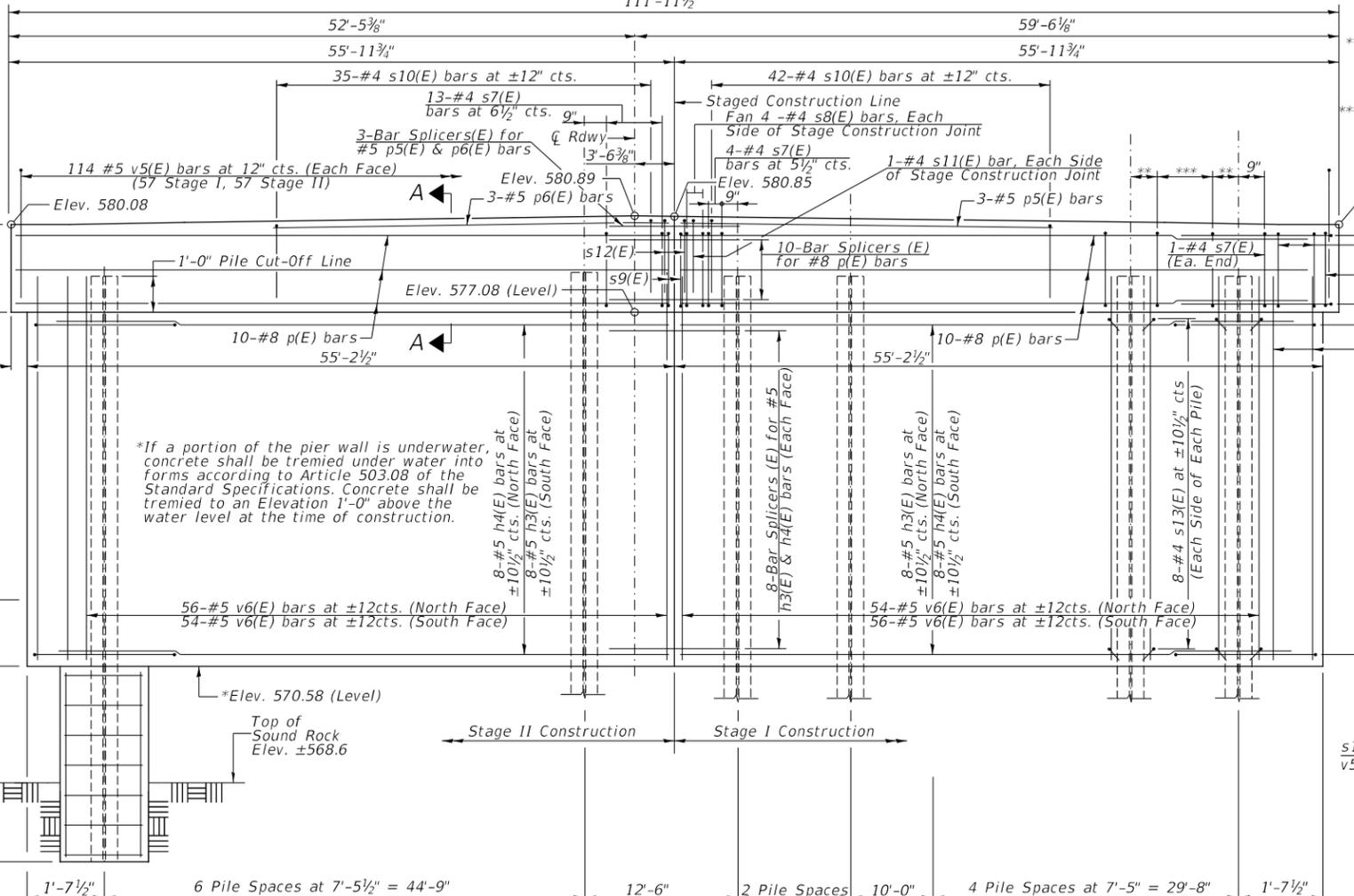
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	16	#5	53'-1"	
h4(E)	16	#5	54'-9"	
p(E)	20	#8	55'-6"	
p5(E)	3	#5	42'-7"	
p6(E)	3	#5	36'-3"	
s7(E)	127	#4	10'-5"	
s8(E)	14	#4	7'-0"	
s9(E)	4	#4	12'-1"	
s10(E)	77	#4	7'-6"	
s11(E)	2	#4	4'-10"	
s12(E)	2	#4	8'-4"	
s13(E)	240	#4	2'-7"	
u2(E)	16	#5	11'-4"	
u3(E)	6	#6	10'-8"	
v5(E)	228	#5	4'-9"	
v6(E)	226	#5	7'-4"	
v7(E)	32	#5	6'-0"	
Cofferdam Excavation		Cu. Yd.	120	
Concrete Structures		Cu. Yd.	88.7	
Reinforcement Bars, Epoxy Coated		Pound	10,150	
Furnishing Steel Piles, HP10x42		Foot	255	
Concrete Encasement		Cu. Yd.	3.5	
Setting Piles in Rock		Each	15	
Cofferdam (Type I) (In-Stream/Wetland Work)		Each	2	

① See Special Provisions.

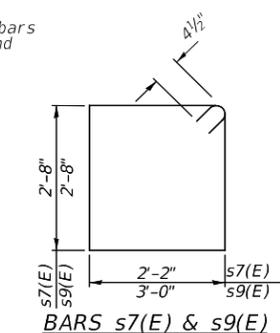


END VIEW

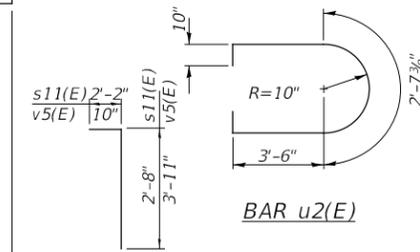


ELEVATION

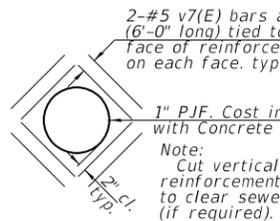
(All horizontal dimensions are along CL pier)
(Looking North)



BARS s7(E) & s9(E)



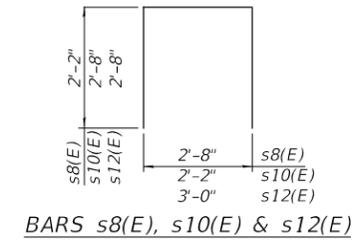
BARS s11(E) & v5(E)



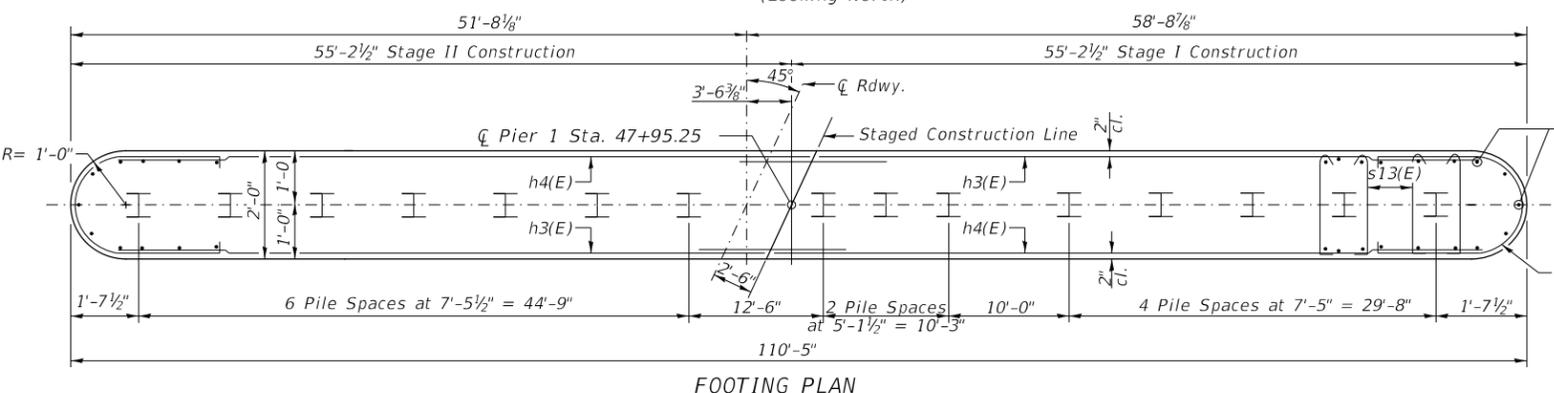
BAR u2(E)

PILE DATA

Type & Size:	Steel HP 10x42
Nominal Required	
Bearing:	Set in Rock (335 kips)
Factored Resistance Available:	Set in Rock (184 kips)
Est. Length:	17'
No. Req'd.:	15



BARS s8(E), s10(E) & s12(E)



FOOTING PLAN

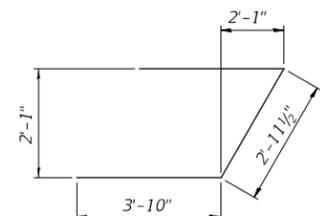
ELEVATION - REINFORCEMENT
TREATMENT AT SEWER & WATER LINE

PIER 1
ESSINGTON ROAD OVER
ROCK RUN NORTH
SECTION 16-00489-00-BR
WILL COUNTY
STRUCTURE NO. 099-6049

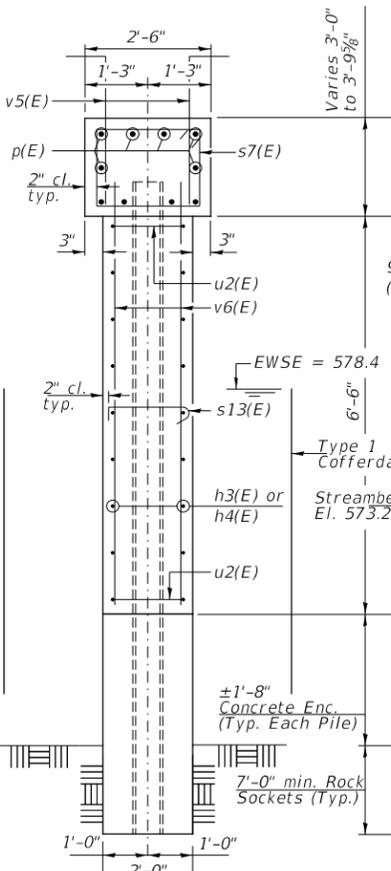
SHEET NO. 16	F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	326	16-00489-00-BR	WILL	52	42
21 SHEETS	S.N. 099-6049		CONTRACT NO. 61G21		
	FED. ROAD DIST. NO.	ILLINOIS	PROJECT NO. FBG 0(207)		

NOTES

All edges shall have standard 3/4" chamfer.
See Sheet 19 of 21 for Pile Details.



BAR u3(E)



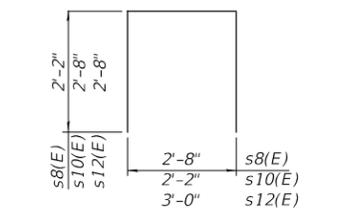
BARS s7(E) & s9(E)

BAR u2(E)

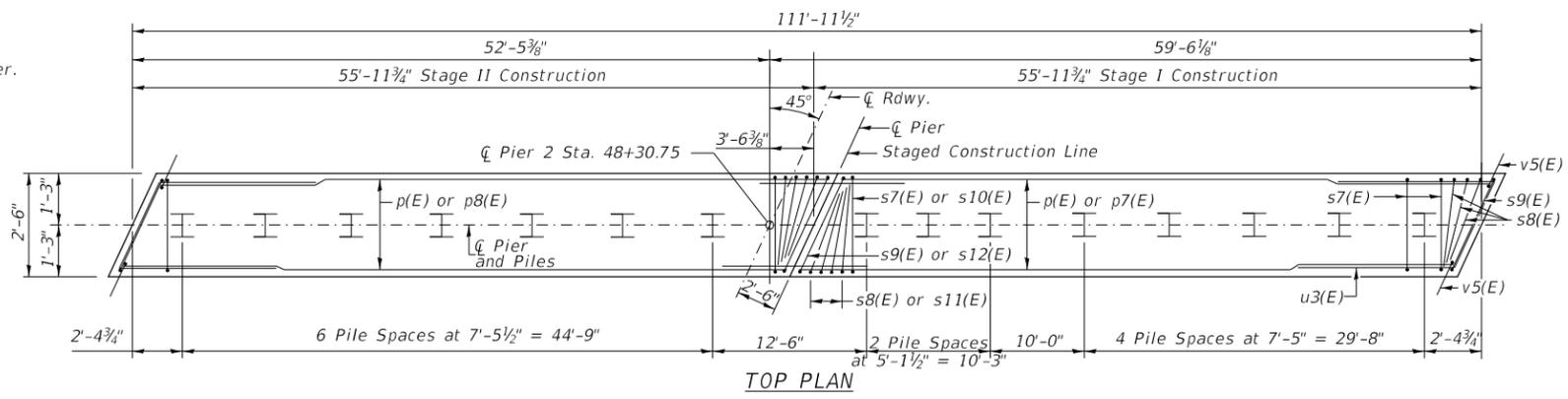
END VIEW

PILE DATA

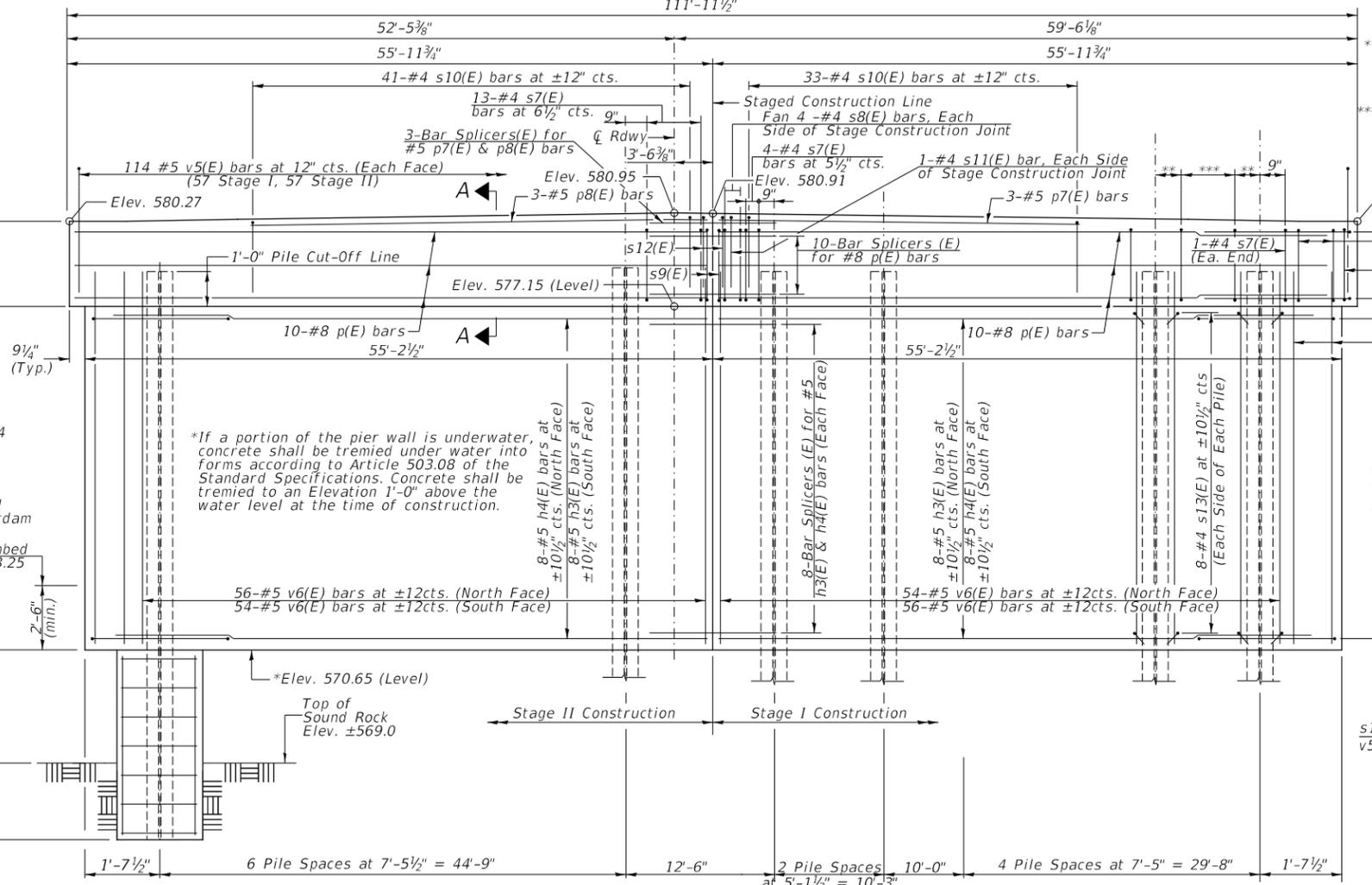
Type & Size: Steel HP 10x42
Nominal Required
Bearing: Set in Rock (335 kips)
Factored Resistance Available: Set in Rock (184 kips)
Est. Length: 17'
No. Req'd.: 15



BARS s8(E), s10(E) & s12(E)

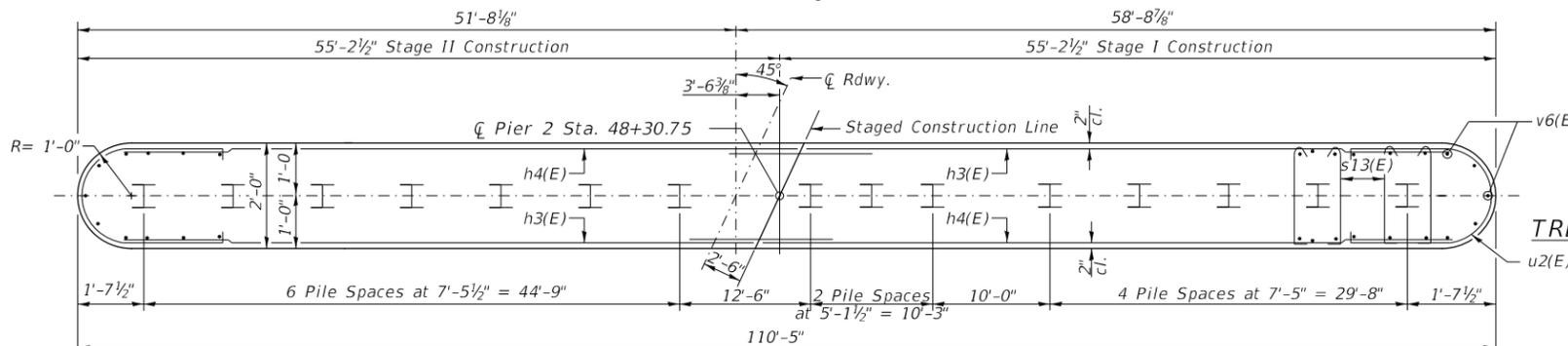


TOP PLAN

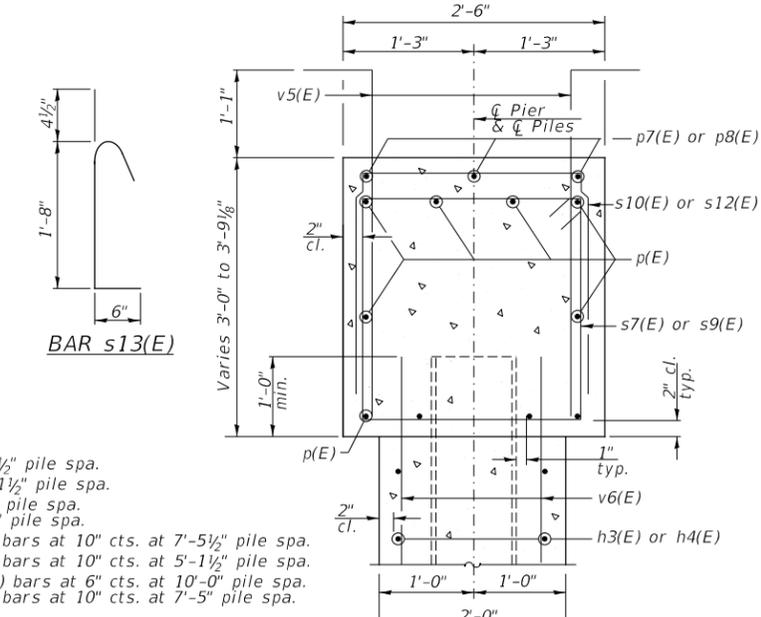


ELEVATION

(All horizontal dimensions are along CL pier)
(Looking North)



FOOTING PLAN

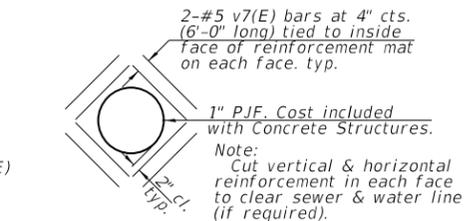


SECTION A-A
(at right angles)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	16	#5	53'-1"	
h4(E)	16	#5	54'-9"	
p(E)	20	#8	55'-6"	
p7(E)	3	#5	41'-4"	
p8(E)	3	#5	33'-0"	
s7(E)	127	#4	10'-5"	
s8(E)	14	#4	7'-0"	
s9(E)	4	#4	12'-1"	
s10(E)	74	#4	7'-6"	
s11(E)	2	#4	4'-10"	
s12(E)	2	#4	8'-4"	
s13(E)	240	#4	2'-7"	
u2(E)	16	#5	11'-4"	
u3(E)	6	#6	10'-8"	
v5(E)	228	#5	4'-9"	
v6(E)	226	#5	7'-4"	
v7(E)	32	#5	6'-0"	
Cofferdam Excavation			Cu. Yd.	115
Concrete Structures			Cu. Yd.	88.3
Reinforcement Bars, Epoxy Coated			Pound	10,120
Furnishing Steel Piles, HP10x42			Foot	255
Concrete Encasement			Cu. Yd.	2.9
Setting Piles in Rock			Each	15
Cofferdam (Type 1) (In-Stream/Wetland Work)			Each	2

① See Special Provisions.

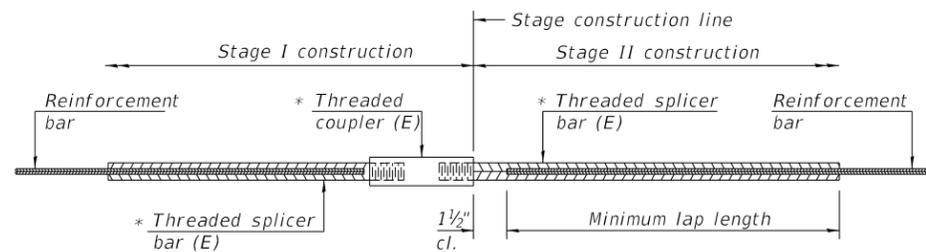


ELEVATION - REINFORCEMENT

TREATMENT AT SEWER & WATER LINE

PIER 2
ESSINGTON ROAD OVER
ROCK RUN NORTH
SECTION 16-00489-00-BR
WILL COUNTY
STRUCTURE NO. 099-6049

SHEET NO. 17	F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	326	16-00489-00-BR	WILL	52	43
21 SHEETS	S.N. 099-6049		CONTRACT NO. 61G21		
	FED. ROAD DIST. NO.	ILLINOIS	PROJECT NO. FBG 0(207)		

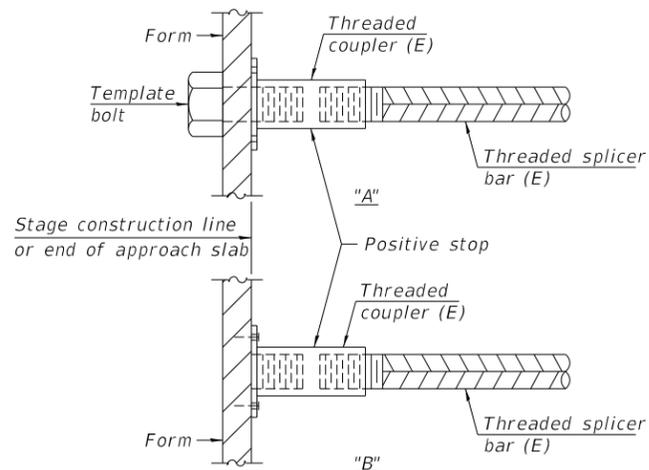


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

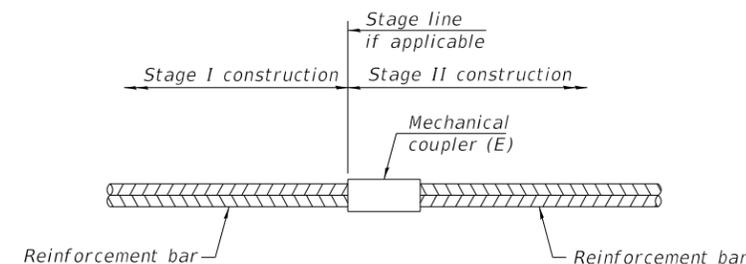
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Abut. Diaphragm	#8	6	4'-1"
Pier Diaphragm	#8	4	3'-8"
Slab	#8	334	4'-1"
S. App. Slab	#5	33	2'-7"
S. App. Slab	#8	43	5'-2"
S. App. Slab Foot.	#5	40	2'-5"
N. App. Slab	#5	33	2'-7"
N. App. Slab	#8	43	5'-2"
N. App. Slab Foot.	#5	40	2'-5"
S. Abut.	#8	10	5'-4"
S. Abut.	#5	3	2'-7"
N. Abut.	#8	10	5'-4"
N. Abut.	#5	3	2'-7"
Pier 1 Cap	#8	10	5'-4"
Pier 1 Cap	#5	3	2'-7"
Pier 1 Wall	#5	16	2'-7"
Pier 2 Cap	#8	10	5'-4"
Pier 2 Cap	#5	3	2'-7"
Pier 2 Wall	#5	16	2'-7"



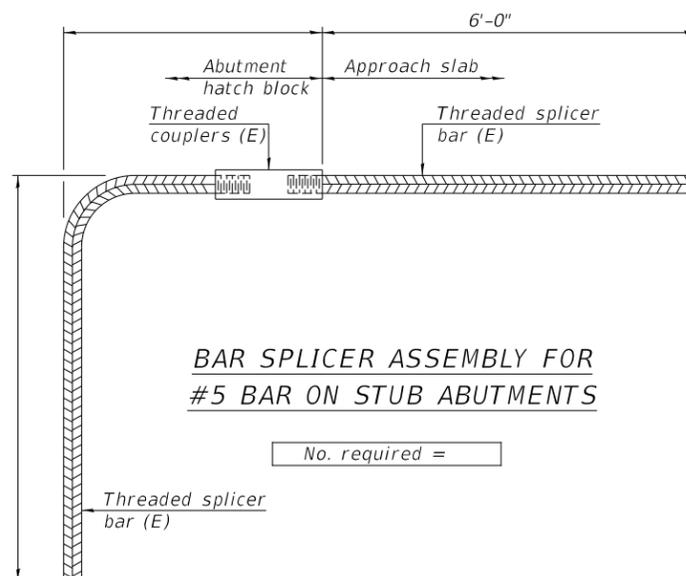
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

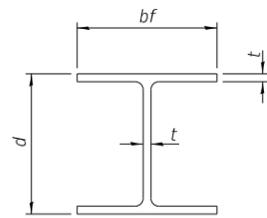
No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

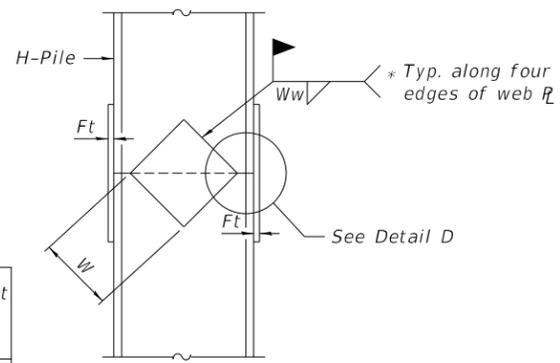
**BAR SPLICER ASSEMBLY DETAILS
 ESSINGTON ROAD OVER
 ROCK RUN NORTH
 SECTION 16-00489-00-BR
 WILL COUNTY
 STRUCTURE NO. 099-6049**

SHEET NO. 18	F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	326	16-00489-00-BR	WILL	52	44
21 SHEETS	S.N. 099-6049		CONTRACT NO. 61G21		
	FED. ROAD DIST. NO.	ILLINOIS	PROJECT NO. FBG 0(207)		

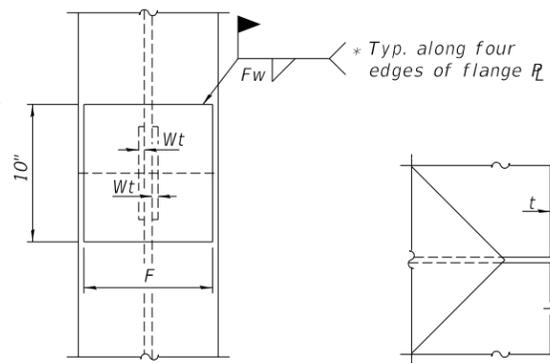


STEEL PILE TABLE

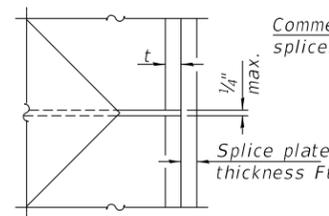
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



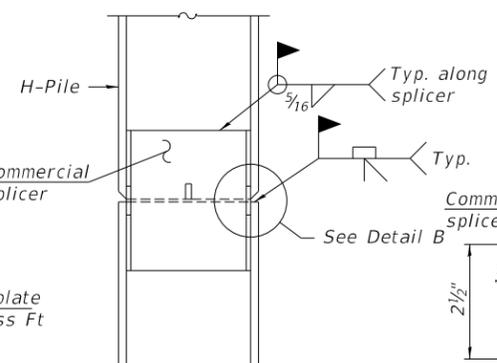
ELEVATION



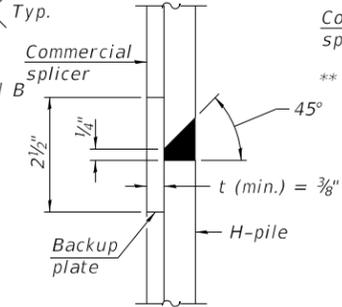
END VIEW



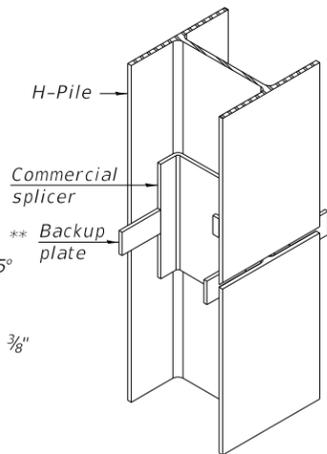
DETAIL D



ELEVATION



DETAIL "B"

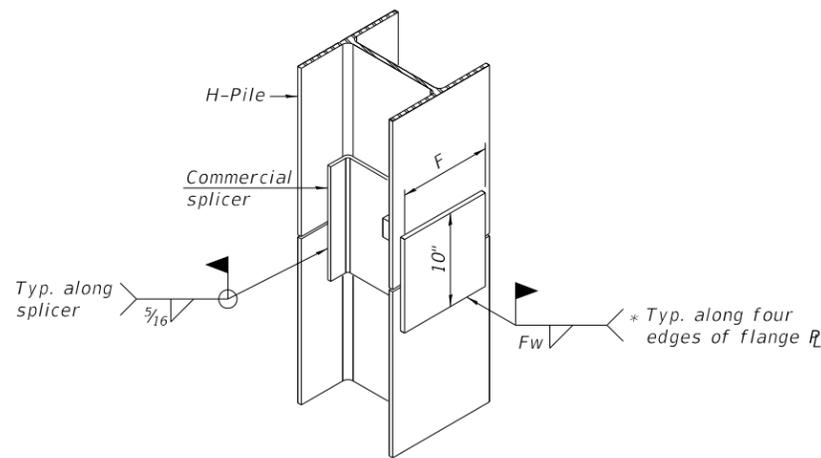


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

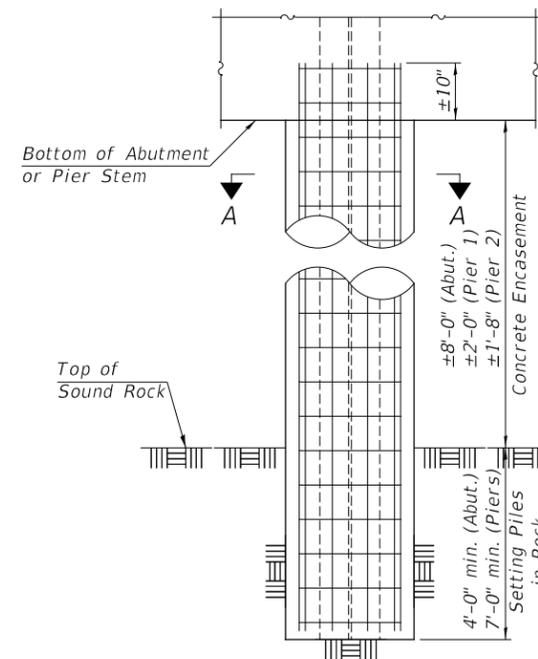


ISOMETRIC VIEW

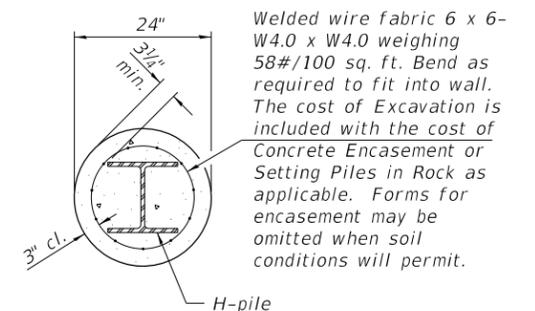
WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (3/16" min.).

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

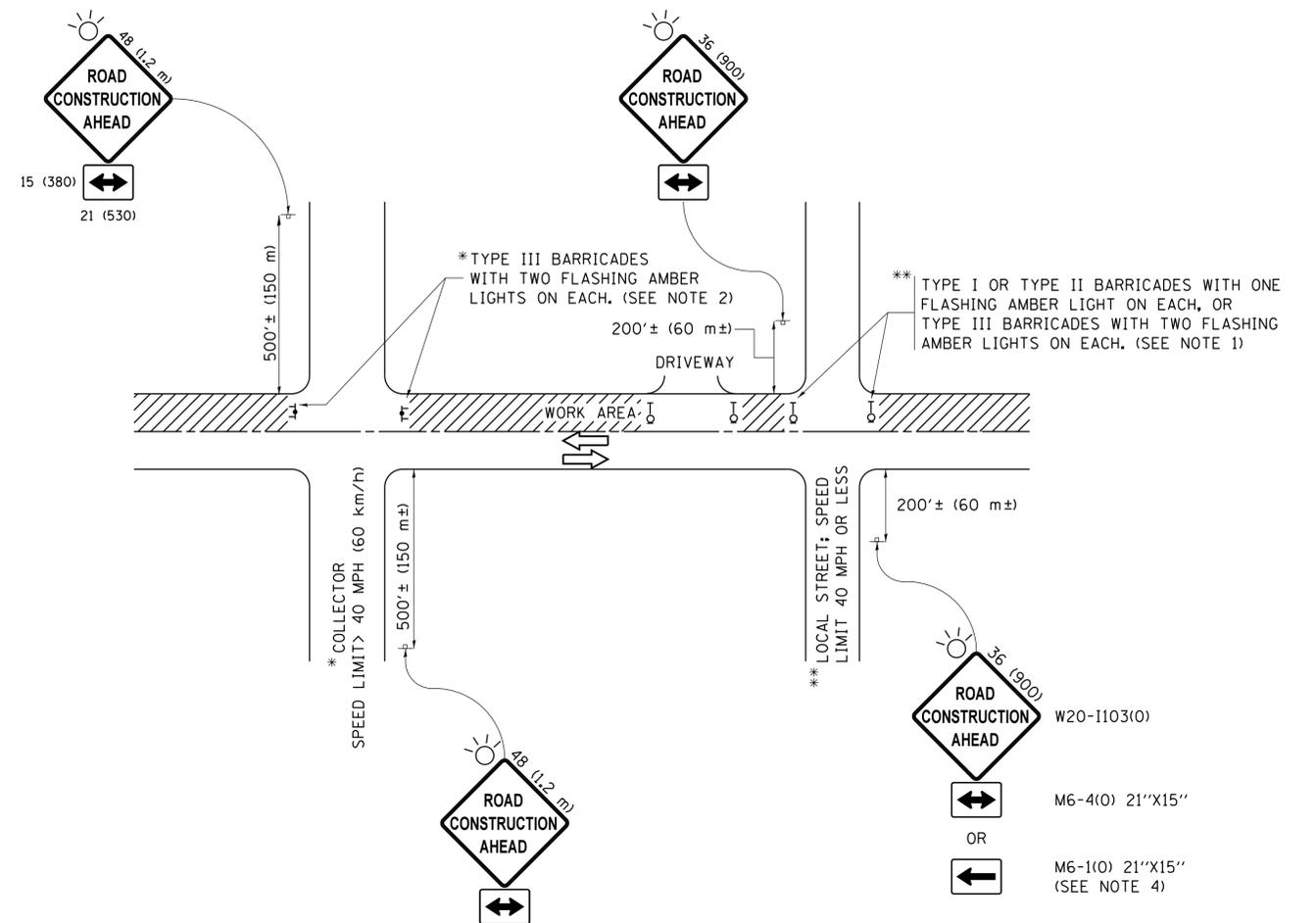


SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT
(Forms for encasement may be omitted when soil conditions permit).

PILE DETAILS
ESSINGTON ROAD OVER
ROCK RUN NORTH
SECTION 16-00489-00-BR
WILL COUNTY
STRUCTURE NO. 099-6049

SHEET NO. 19	F.A.U. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	326	16-00489-00-BR	WILL	52	45
21 SHEETS	S.N. 099-6049		CONTRACT NO. 61G21		
	FED. ROAD DIST. NO.	ILLINOIS	PROJECT NO. FBG 0(207)		



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
pw:\IL084EBIDINTEG.illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\Dist1\CADData\CADsheets\tc10.dgn		DRAWN	REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	16-0048900-BR	WILL	52	48
TC-10		CONTRACT NO. 61G21		
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

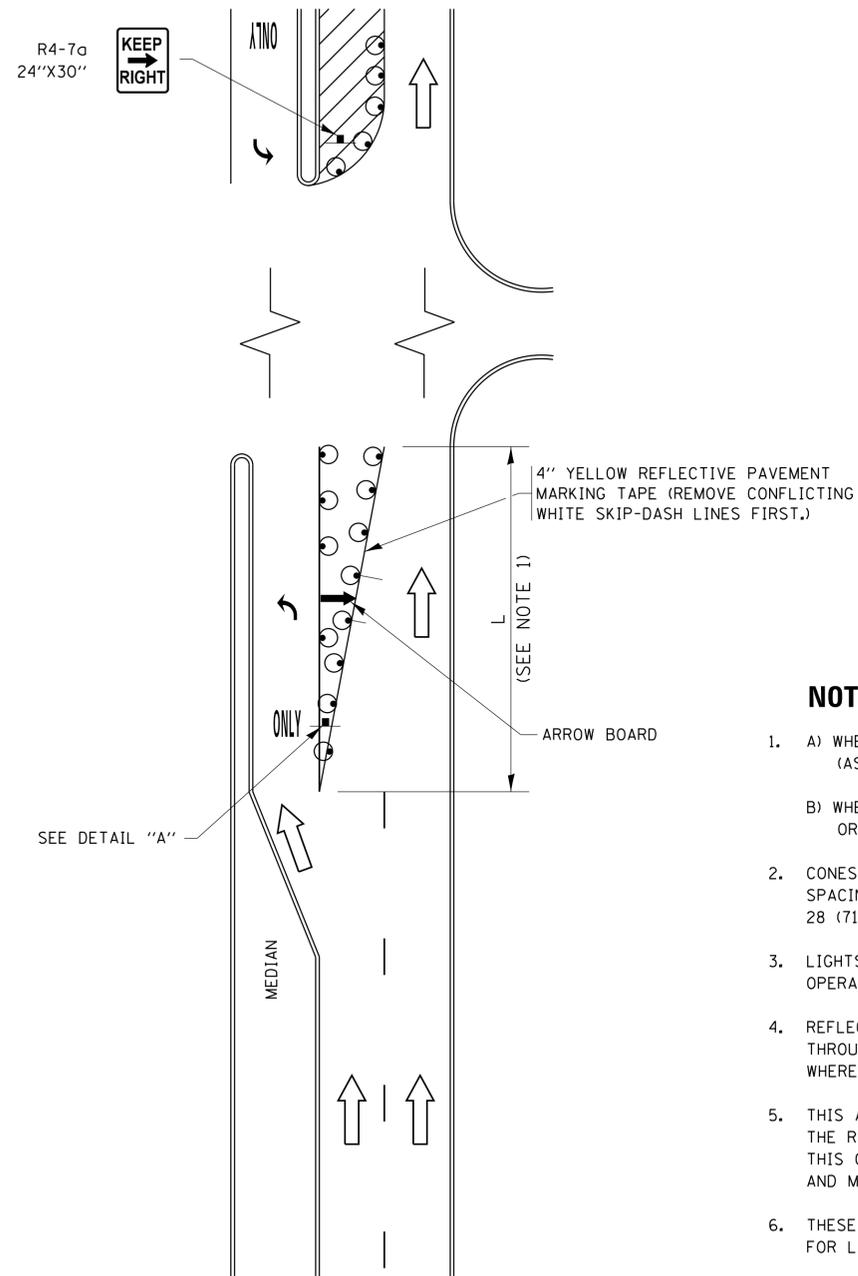


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

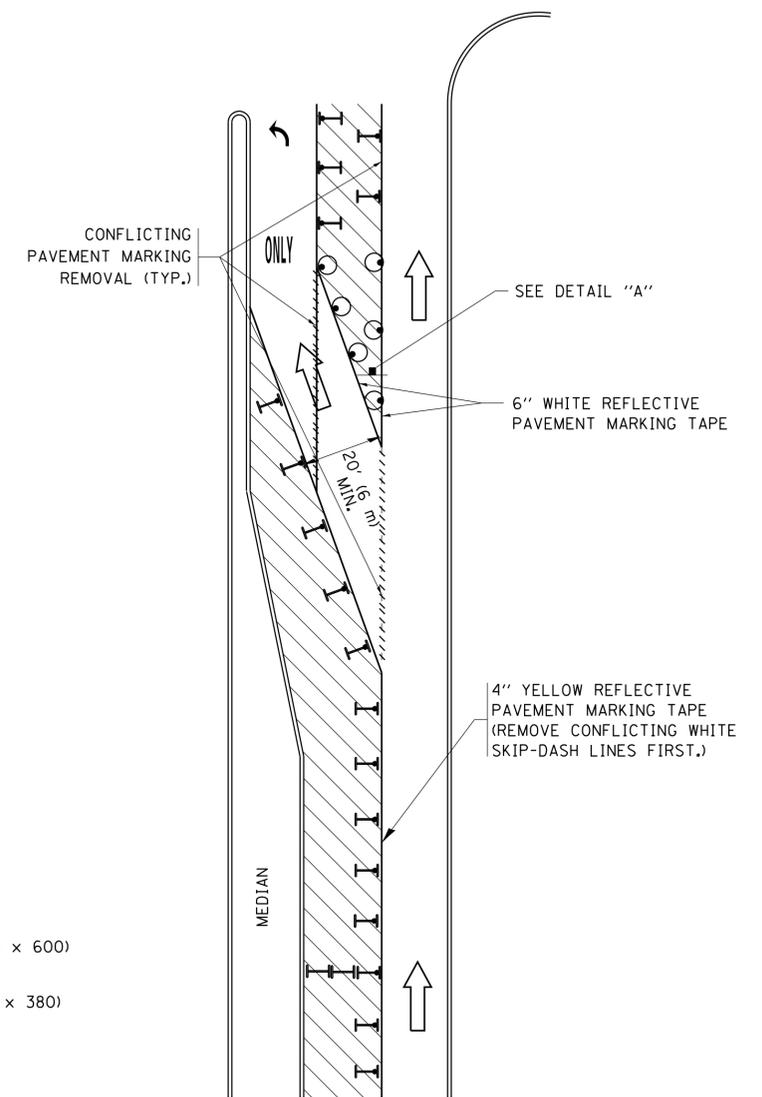


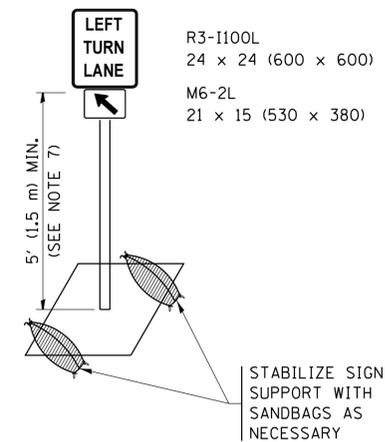
FIGURE 2

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  ARROW BOARD
-  TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  SIGN ASSEMBLY
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

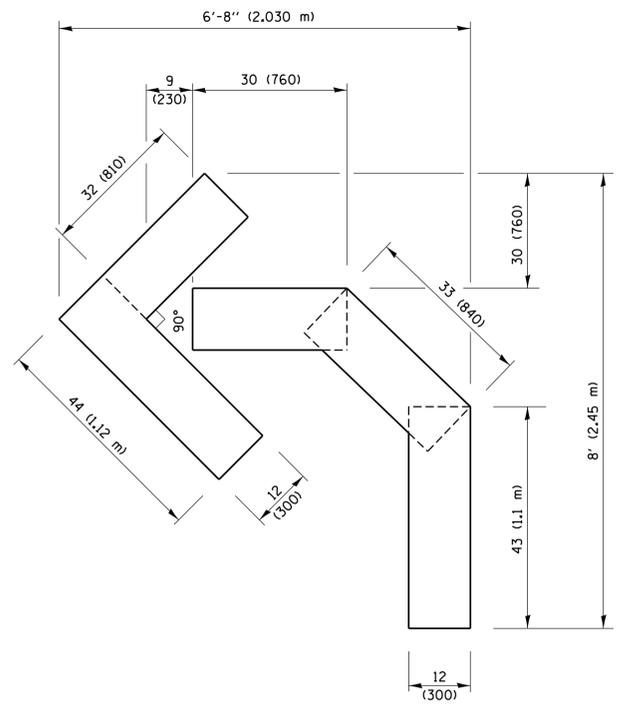
1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



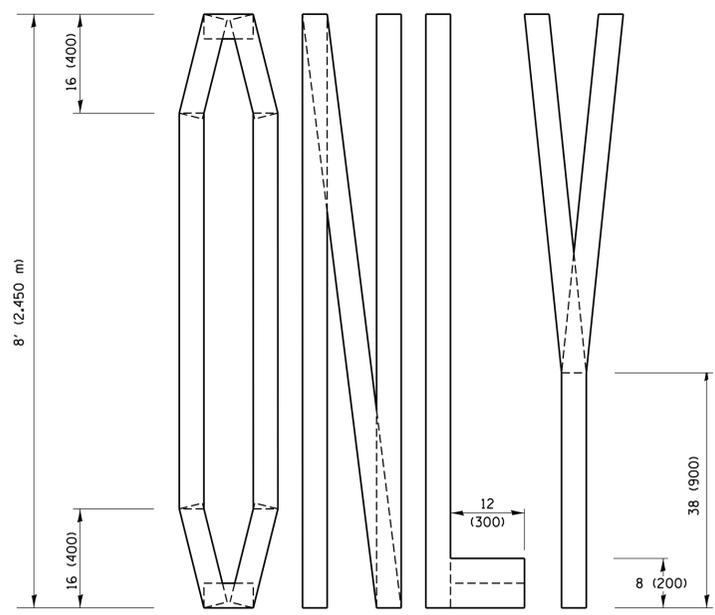
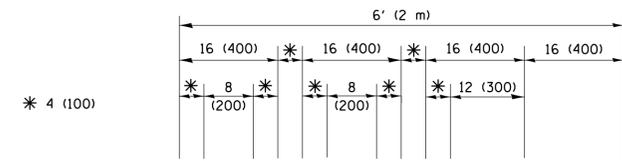
DETAIL A

All dimensions are in inches (millimeters) unless otherwise shown.

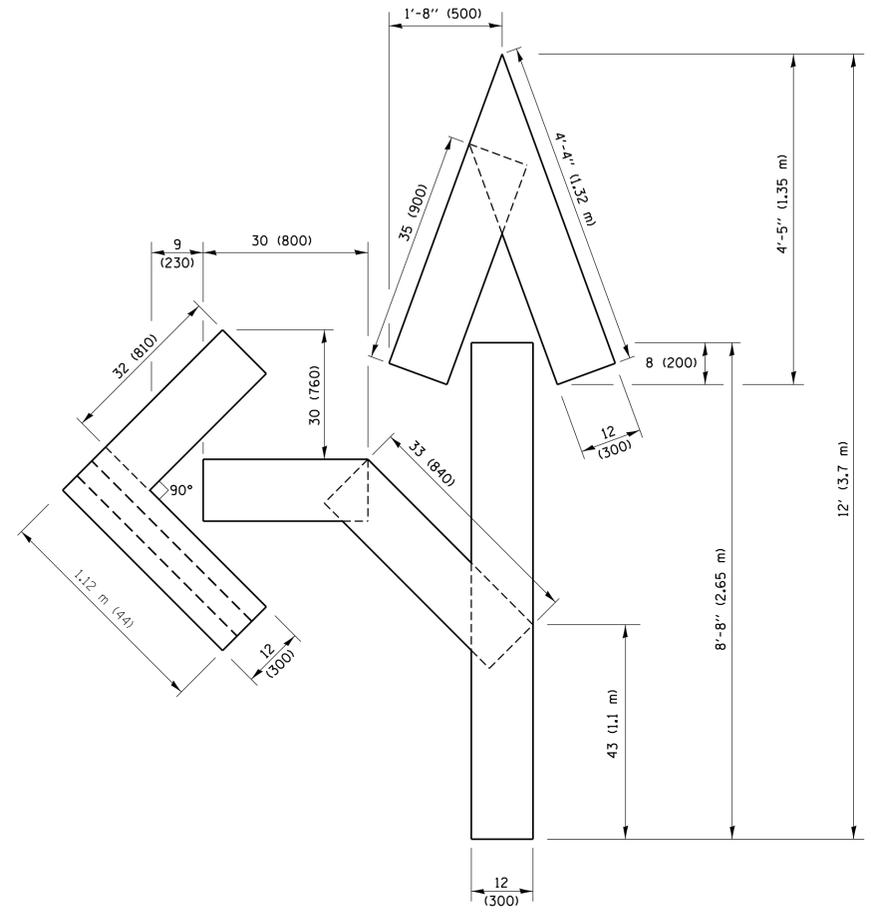
FILE NAME =	USER NAME = footemj	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)				F.A.U. R.E. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG.illinois.gov\PIWDD\Documents\IDOT Offices\District 1\Projects\Dist	REVISED - A. HOUSEH 10-07-95	REVISED - A. SCHUETZE 07-01-13	REVISED - A. SCHUETZE 09-15-16		326	16-0048900-BR	WILL	52	49				
PLOT SCALE = 50.0000' / in.	REVISED - T. RAMMACHER 01-06-00	REVISED -	REVISED -		TC-14				CONTRACT NO. 61G21				
Default	PLOT DATE = 9/15/2016	REVISED -	REVISED -		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT			



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.41 sq. m)

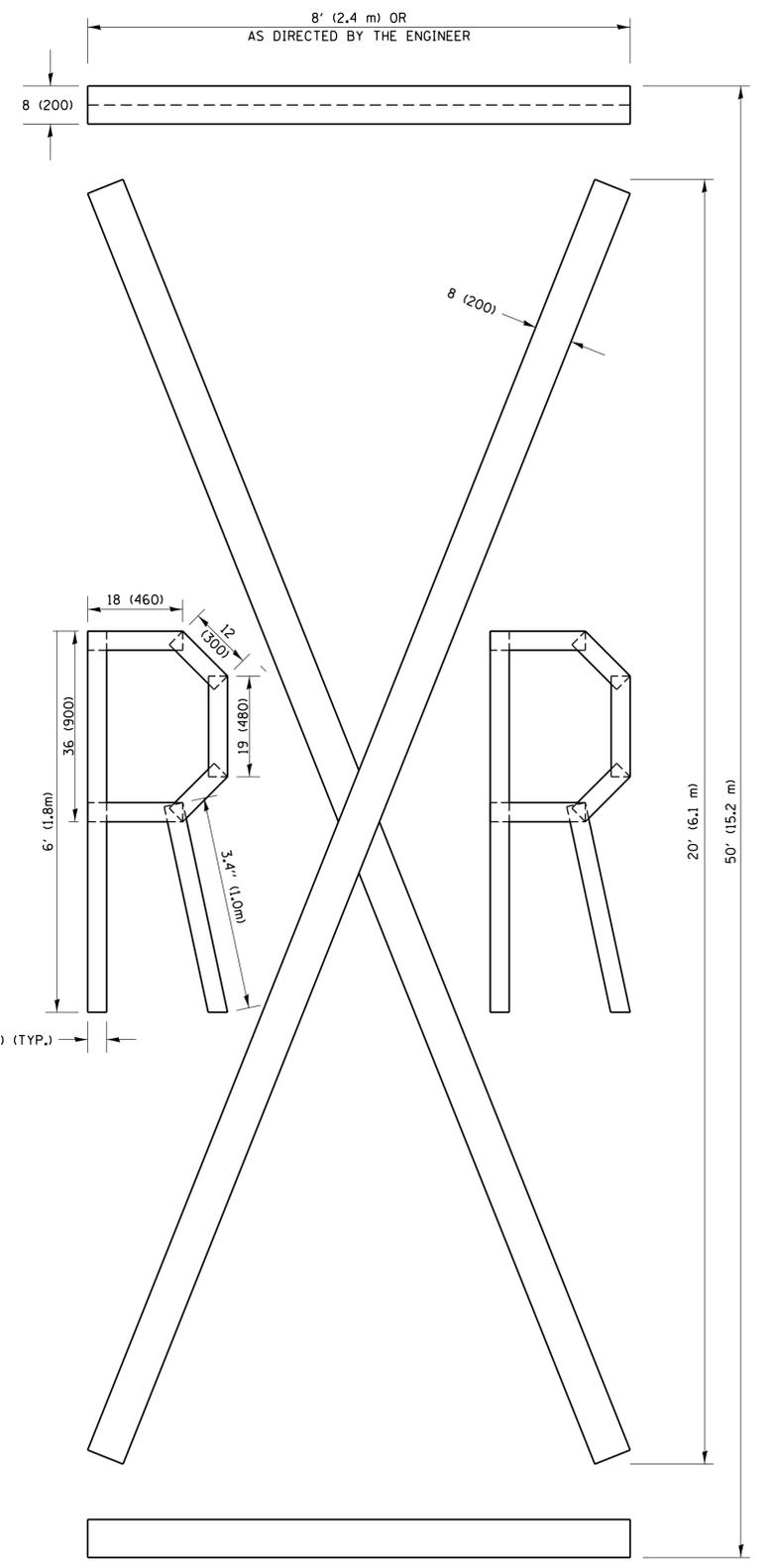


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)

NOTE:
 ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY
 4 (100) LINE = 225.9 ft. (68.9 m)
 75.3 sq. ft. (6.99 sq. m)

All dimensions are in inches (millimeters) unless otherwise shown.

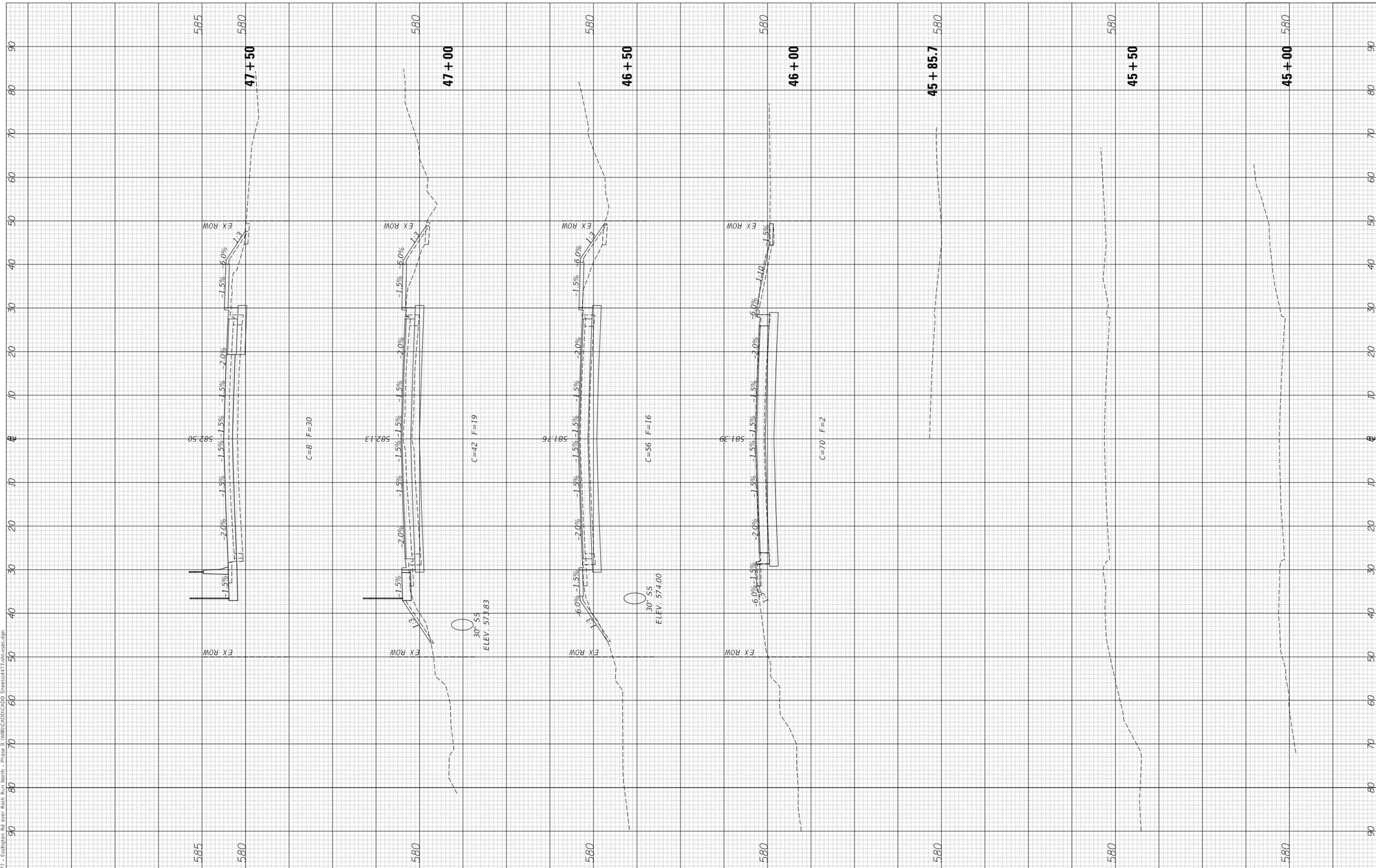
FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - T. RAMMACHER 03-02-98
pw:\ll084EBIDINTEG.111nois.gov\PIWDDT\Documents\IDOT Offices\District 1\Projects\Dist 1\CADDData\CADSheets\tc16.dgn		DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT SCALE = 50.0000' / in.		CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 9/15/2016		DATE -	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	16-0048900-BR	WILL	52	50
TC-16		CONTRACT NO. 61G21		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

MODEL: s:\06\16\NAME
 FILE NAME: V:\177 - Essington Rd over Rock Run North - Phase II (MILL)CADD\CADD Sheets\17724c-sec.dgn



USER NAME = jwhite	DESIGNED - LDZ	REVISED -
	DRAWN - JCW	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - AWM	REVISED -
PLOT DATE = 9/23/2019	DATE - 9-6-19	REVISED -

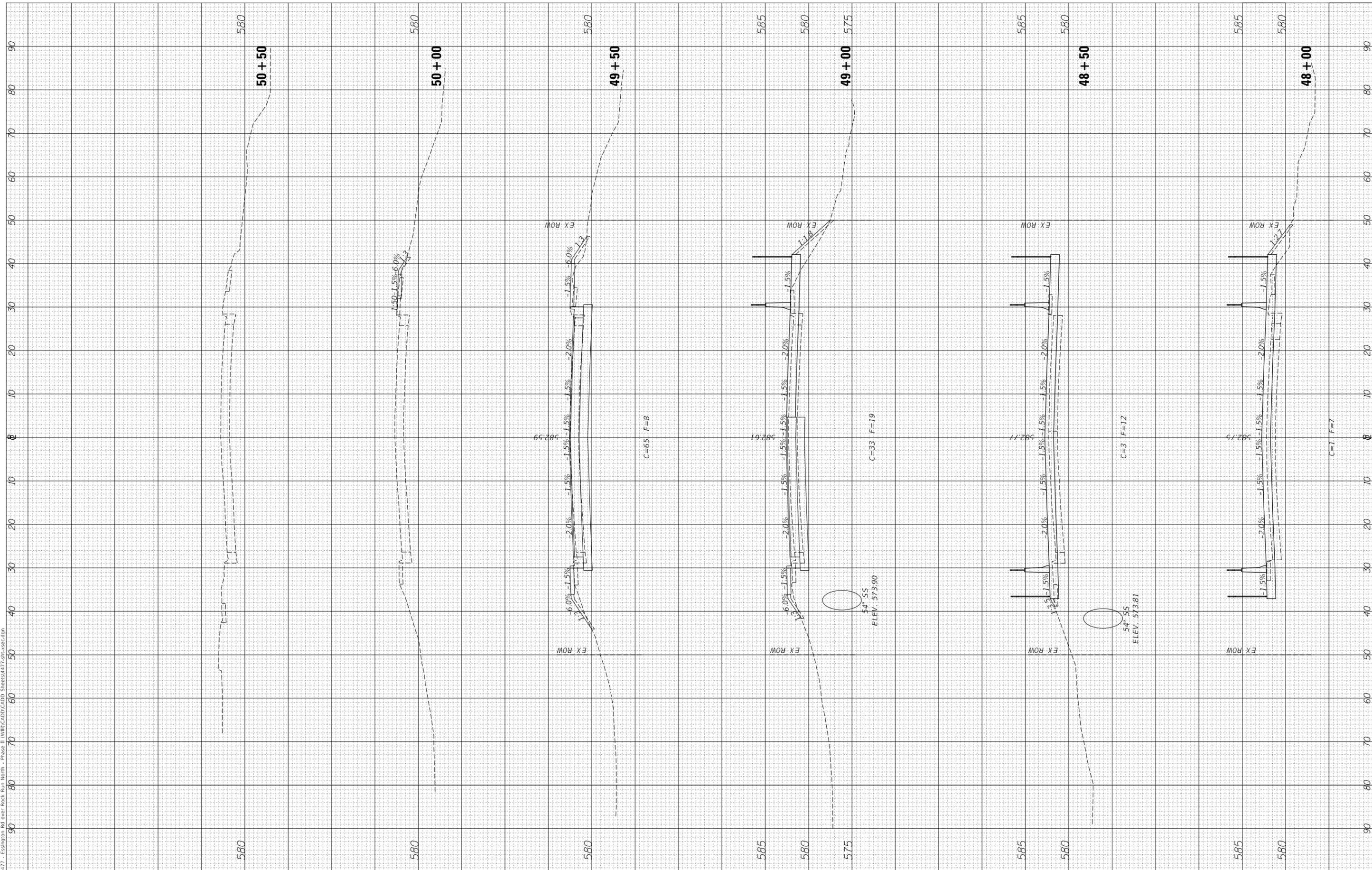
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE: N/A SHEET 1 OF 2 SHEETS STA. 45+00.00 TO STA. 47+50.00

**ESSINGTON ROAD
 ESSINGTON RD CROSS SECTIONS**

F.A.U. RTE. 326	SECTION 16-00489-00-BR	COUNTY WILL	TOTAL SHEETS 52	SHEET NO. 51
CONTRACT NO. 61G21				
ILLINOIS		FED. AID PROJECT		

MODEL: s:\06\16\NAME: Essington Rd over Rock Run North - Phase II (WML)CADD\CADD Sheets\47724c-sec.dgn
 FILE NAME: 071777 - Essington Rd over Rock Run North - Phase II (WML)CADD\CADD Sheets\47724c-sec.dgn



USER NAME = jwhite	DESIGNED - LDZ	REVISED -
	DRAWN - JCW	REVISED -
PLOT SCALE = 20.0000' / in.	CHECKED - AWM	REVISED -
PLOT DATE = 9/23/2019	DATE - 9-6-19	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ESSINGTON ROAD	
ESSINGTON RD CROSS SECTIONS	
SCALE: N/A	SHEET 2 OF 2 SHEETS
STA. 48+00.00 TO STA. 50+50.00	

F.A.U. RTE. 326	SECTION 16-00489-00-BR	COUNTY WILL	TOTAL SHEETS 52	SHEET NO. 52
CONTRACT NO. 61G21				
ILLINOIS FED. AID PROJECT				