

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 325 (IL 16)
SECTION 18(B-2, B-3); 16(CR)
PROJECT COVD-S3VW(207)
MONTGOMERY & CHRISTIAN COUNTIES
C-96-015-12

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	ILLINOIS	142*	1

CONTRACT NO. 72984
* MONTGOMERY & CHRISTIAN
*142 + 1 = 143 TOTAL SHEETS

D-96-522-05



INDEX OF SHEETS

- 1 COVER SHEET
- 2 LIST OF STANDARDS, GENERAL NOTES & COMMITMENTS
- 3-9 SUMMARY OF QUANTITIES
- 10-21 SCHEDULE OF QUANTITIES
- 22-24 ALIGNMENT, CROSS-TIES, AND BENCHMARKS SHEET

SN 011-2513

- 25-27 TYPICAL SECTIONS SN 011-2513
- 28-33 PLAN AND PROFILE SHEETS SN 011-2513
- 34-36 STAGE I TRAFFIC CONTROL SN 011-2513
- 37-39 STAGE II TRAFFIC CONTROL SN 011-2513
- 40 EROSION CONTROL PLAN SN 011-2513
- 41-49 STRUCTURE PLANS SN 011-2513
- 50-57 CROSS SECTIONS SN 011-2513

SN 068-2509

- 58-59 TYPICAL SECTIONS SN 068-2509
- 60-65 PLAN & PROFILE SHEETS SN 068-2509
- 66-68 STAGE I TRAFFIC CONTROL SN 068-2509
- 69-71 STAGE II TRAFFIC CONTROL SN 068-2509
- 72 EROSION CONTROL PLAN SN 068-2509
- 73-79 STRUCTURE PLANS SN 068-2509
- 80-90 CROSS SECTIONS SN 068-2509

SN 068-2508

- 91-93 TYPICAL SECTIONS SN 068-2508
- 94-99 PLAN & PROFILE SHEETS SN 068-2508
- 100-102 STAGE I TRAFFIC CONTROL SN 068-2508
- 103-105 STAGE I PROFILE SN 068-2508
- 106-108 STAGE II TRAFFIC CONTROL SN 068-2508
- 109-111 STAGE II PROFILE SN 068-2508
- 112 EROSION CONTROL PLAN SN 068-2508
- 113-121 STRUCTURE PLANS SN 068-2508
- 122-134 CROSS SECTIONS SN 068-2508

SN 068-7076

- 135 CULVERT REPAIR

136-142 MISCELLANEOUS DETAILS

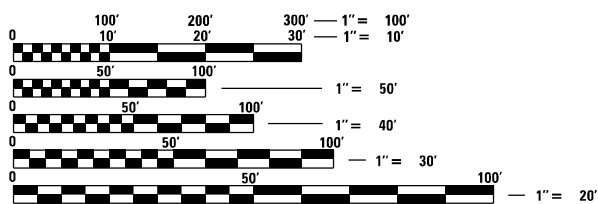
EXISTING SN 068-0017
SANGAMON CREEK W OF OHLMAN
STA 38+29.51 TO 47+93.91
REMOVE EXISTING STRUCTURE
REPLACE WITH 10' W X 10' H TRIPLE BOX CULVERT
PROPOSED SN 068-2509

PROJECT OMISSION
STA 47+93.91 TO STA 138+00

EXISTING SN 011-7039
TRIBUTARY OF SOUTH FORK SANGAMON RIVER
BEGIN PROJECT STA 359+00.00
STA 359+00 TO STA 364+71.18 BK = STA 0+00 AH
STA 0+00 AH TO STA 4+00
REMOVE EXISTING STRUCTURE
REPLACE WITH 10' W X 4' H DOUBLE BOX CULVERT
PROPOSED SN 011-2513

EXISTING SN 068-0016
SOUTH FORK SANGAMON RIVER 2.4 MINE OF ELM ST IN NOKOMIS
STA 138+00 TO 148+00
END PROJECT STA 148+00
REMOVE EXISTING STRUCTURE
REPLACE WITH 12' W X 8' H TRIPLE BOX CULVERT
PROPOSED SN 068-2508

EXISTING SN 068-7076
0.3 MI SW OF SN 068-0016
STA 158+68
CULVERT REPAIR



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

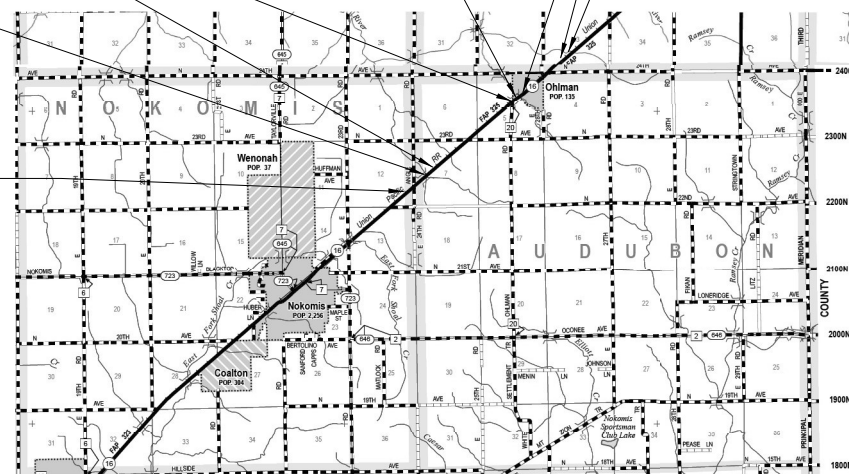
PROJECT ENGINEER: JON KELLEY (217) 785-2735
SQUAD LEADER: CHRIS SIEFERT (217) 524-7940

CONTRACT NO. 72984

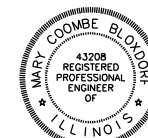
AVERAGE DAILY TRAFFIC

EX SN 011-7039	1450 (2019) MU = 100, SU = 50
EX SN 068-0017	1550 (2019) MU = 80, SU = 60
EX SN 068-0016	1500 (2019) MU = 70, SU = 60

LOCATION MAP



SN 011-2513	GROSS LENGTH = 971.18 FT. = 0.184 MILE
SN 068-2509	GROSS LENGTH = 964.40 FT. = 0.183 MILE
SN 068-2508	GROSS LENGTH = 1000.00 FT. = 0.189 MILE
OVERALL	GROSS LENGTH = 2935.58 FT. = 0.556 MILE



Mary Coombe Bloyd
ILLINOIS PROFESSIONAL NO 43208
EXPIRES 11-30-23
DATE: 04-07-2023

FEHR GRAHAM ILLINOIS IOWA WISCONSIN
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED April 8 2023

Jon P. Meyer
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
May 12, 2023

Steph M. Smith
ENGINEER OF DESIGN AND ENVIRONMENT
May 12, 2023

Steph M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

FILE NAME = G:\Information\214\217-7185\CADD\Info SN 068-0016\CAD\Sheets\0672984-sh-t-cover.dgn
F:\Graham PROJECT NO. 18682-E

LIST OF STANDARDS

000001-08	630201-07	701901-08
001001-02	630301-09	704001-08
001006	642006-01	725001-01
280001-07	666001-01	780001-05
406201-01	701001-02	781001-04
442201-03	701006-05	782006-01
482001-02	701011-04	353001-05
542301-03	701201-05	420001-10
602301-04	701301-04	515001-04
604021-04	701306-04	542401-04
630001-12	701311-03	
630101-10	701321-18	
630106-02	701326-04	

ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.
 ALL EXISTING FENCE WITHIN THE PROPOSED RIGHT-OF-WAY SHALL BE REMOVED. THE COST OF THE FENCE REMOVAL WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

GENERAL NOTES

EXISTING RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE REMOVED PRIOR TO RESURFACING.

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

AGGREGATE (SURFACE TYPE A, BASE TYPE A, SUBBASE TYPE A)	1.80 TONS/CUBIC YARD
AGGREGATE (GRANULAR STRUCTURAL BACKFILL, TRENCH BACKFILL)	1.80 TONS/CUBIC YARD
AGGREGATE OTHER (TYPE B, TYPE C, WEDGE SHOULDER, ETC)	1.60 TONS/CUBIC YARD
STONE DUMPED RIPRAP	1.50 TONS/CUBIC YARD
BITUMINOUS MATERIALS (TACK COAT)	0.05 LBS/SQUARE FEET (MILLED SURFACE)
BITUMINOUS MATERIALS (TACK COAT)	0.025 LBS/SQUARE FEET (BETWEEN LIFTS)
AGGREGATE (PRIME COAT)	0.25 LBS/SQUARE FEET
HMA SURFACE/BINDER (112 LBS)	0.056 TON/SQUARE YARD - INCH
NITROGEN FERTILIZER NUTRIENT	90 LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS/ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LBS/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LBS/ACRE
MULCH	2 TONS/ACRE
AGRICULTURAL GROUND LIMESTONE	2 TONS/ACRE

ALL DETAILS IN THE PLANS SHALL GOVERN CONSTRUCTION OF THIS PROJECT, AND IN CASE OF CONFLICT WITH ANY STANDARD DRAWINGS INCLUDED, THE SAID DETAILS SHALL TAKE PRECEDENCE AND GOVERN.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

MIXTURE USE:	MAINLINE SURFACE	BINDER	BASE COURSE (1)	SHOULDERS & INCIDENTAL HMA
PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N50	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION:	IL 9.5	IL 9.5FG	IL 19.0	IL 9.5
FRICTION AGGREGATE:	MIX "C"	N/A	N/A	MIX "C"
QUALITY MANAGEMENT:	QC/QA	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	N/A	N/A	N/A	N/A

(1) THIS MIXTURE SHALL ALSO BE USED FOR THE HMA BINDER IL-19.0, N50 PAY ITEM AND LOWER LIFTS OF HMA SHOULDERS

COMMITMENTS


SEEDING SHALL BE COMPLETED AS DESIGNATED IN THE STORM WATER POLLUTION PREVENTION PLAN. ALL AREAS OF POTENTIAL FOR EROSION SHALL BE SEEDED BY OCTOBER 1, AND SHALL NOT BE REOPENED UNTIL AFTER THE WINTER SHUT DOWN PERIOD (SEE SWPPP).


ROADS SHALL BE OPENED AT ALL TIMES TO PROVIDE FARMERS ACCESS TO NECESSARY FARM FIELDS.


STORM WATER POLLUTION PREVENTION PLAN REQUIRED FOR NPDES PERMIT BY IEPA.

SWPPP / NPDES PERMIT.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6**

EXAMINED April, 7 2023

 ENGINEER OF OPERATIONS

EXAMINED April, 7 2023

 ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED April, 7 2023

 ENGINEER OF PROGRAM DEVELOPMENT

REV. - MS



USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN - CFC	REVISED -
PLOT SCALE = 2.000000' / in.	CHECKED - MCB	REVISED -
PLOT DATE = 1/23/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIST OF STANDARDS, GENERAL NOTES & COMMITMENTS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	"	142	2
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

MODEL: D:\efehr\FILE NAME: G:\microssystems\2131-17188B\1\CADD\B10_SN_011-7039\CAD\sheet\0672984-ent.notes.dgn
 FEHR GRAHAM PROJECT NUMBER: 10005-2 (15-1027F)

* MONTGOMERY & CHRISTIAN

* PPS# TYPICAL FOR ALL SOQ SHEETS

100% FEDERAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				PPS# 6-00205-0000	PPS# 6-00205-0000	PPS# 6-00207-0000	PPS# 6-00514-0000 *
				ROADWAY	BOX CULVERT	BOX CULVERT	BOX CULVERT
				0004	0010	0010	0004
				S.N. 068-7076	S.N. 068-2508	S.N. 068-2509	S.N. 011-2513
20200100	EARTH EXCAVATION	CU YD	2548		1441	139	968
20200500	EARTH EXCAVATION (WIDENING)	CU YD	364		106	167	91
20300100	CHANNEL EXCAVATION	CU YD	1787		1218	220	349
25000200	SEEDING, CLASS 2	ACRE	2.5		1.3	0.4	0.8
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	224		112	38	74
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	224		112	38	74
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	224		112	38	74
25000700	AGRICULTURAL GROUND LIMESTONE	TON	5		2.5	0.8	1.7
25100115	MULCH, METHOD 2	ACRE	2.5		1.3	0.4	0.8
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	248		124	42	82
28000305	TEMPORARY DITCH CHECKS	FOOT	396		176	121	99
28000400	PERIMETER EROSION BARRIER	FOOT	699			699	
28000500	INLET AND PIPE PROTECTION	EACH	4				4

* SPECIALTY ITEM

REV. - MS

MODEL: D:\draft\... FILE NAME: ... MICROSTATION: ... SN: 011-70391CADD0018 SN: 011-70391CADD0018

USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 4/7/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 7 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	3
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	

* MONTGOMERY & CHRISTIAN

100%
FEDERAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY	BOX CULVERT	BOX CULVERT	BOX CULVERT
				0004 S.N. 068-7076	0010 S.N. 068-2508	0010 S.N. 068-2509	0004 S.N. 011-2513
28100109	STONE RIPRAP, CLASS A5	SQ YD	2448		2006	235	207
28200200	FILTER FABRIC	SQ YD	2448		2006	235	207
35101400	AGGREGATE BASE COURSE, TYPE B	TON	13			13	
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	2291		770	1013	508
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	7314		2749	2737	1828
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	485		166	172	147
40602965	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	TON	551		208	195	148
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1006		643	363	
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	579		197	190	192
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	4			4	
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	47			47	
44000100	PAVEMENT REMOVAL	SQ YD	446		103	89	254
44004250	PAVED SHOULDER REMOVAL	SQ YD	1004		298	597	109
44200184	PAVEMENT PATCHING, TYPE III, 15 INCH	SQ YD	16	16			
48101200	AGGREGATE SHOULDERS, TYPE B	TON	144		63	72	9

▪ SPECIALTY ITEM

REV. - MS

MODEL: D:\dgn\...
 FILE NAME: WDCHELLE\Drawings\Microstation\11217188\21CADD\018_S.N. 011-7039\CA\Sheet10672984-act-500.dgn

USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 4/7/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 2 OF 7 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	4
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	

• MONTGOMERY & CHRISTIAN

100%
FEDERAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY	BOX CULVERT	BOX CULVERT	BOX CULVERT
				0004 S.N. 068-7076	0010 S.N. 068-2508	0010 S.N. 068-2509	0004 S.N. 011-2513
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	56		5		51
48203100	HOT-MIX ASPHALT SHOULDERS	TON	473		131	191	151
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1			1	
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1		1		
50105220	PIPE CULVERT REMOVAL	FOOT	29				29
50500505	STUD SHEAR CONNECTORS	EACH	78		78		
50800105	REINFORCEMENT BARS	POUND	135635	45	40060	44310	51220
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	890			890	
50800515	BAR SPLICERS	EACH	408		160	148	100
52200200	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU FT	892		892		
51500100	NAME PLATES	EACH	3		1	1	1
52200010	TEMPORARY SHEET PILING	SQ FT	1251				1251
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	679		381	298	
52200100	FURNISHING SOLDIER PILES (HP SECTION)	FOOT	272		272		

• SPECIALTY ITEM

REV. - MS

MODEL: D:\draft\... FILE NAME: WDCHELLE\Drawings\Microstation\11217188\21CADD\018_S.N. 011-7039\CADsheets\0672984-act-500.dgn

USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 4/7/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 3 OF 7 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	-	142	5
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	

• MONTGOMERY & CHRISTIAN

100%
FEDERAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY	BOX CULVERT	BOX CULVERT	BOX CULVERT
				0004 S.N. 068-7076	0010 S.N. 068-2508	0010 S.N. 068-2509	0004 S.N. 011-2513
52200250	UNTREATED TIMBER LAGGING	SQ FT	461		461		
54002020	EXPANSION BOLTS 3/4 INCH	EACH	26	8			18
54003000	CONCRETE BOX CULVERTS	CU YD	703.7	0.3	243.2	261	199.2
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	42				42
5421D048	PIPE CULVERTS, CLASS D, TYPE 1 48" (TEMPORARY)	FOOT	24				24
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1			1	
54248510	CONCRETE COLLAR	CU YD	2.9				2.9
54262724	METAL FLARED END SECTIONS 24"	EACH	2				2
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	191			191	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	754		269	239	246
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	10	10			
60236200	INLETS, TYPE A, TYPE 8 GRATE	EACH	2			2	
61100500	EXPLORATION TRENCH 52" DEPTH	FOOT	1400		600	400	400
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	337.5			337.5	

* SPECIALTY ITEM

REV. - MS

MODEL: Default
FILE NAME: \\PDC\HELLE\Drawings\Microstation\21121718B\21CADD\018_S.N. 011-7039\CA\Sheet10672984-act-500.dgn

USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/7/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 4 OF 7 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	6
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	

* MONTGOMERY & CHRISTIAN

100%
FEDERAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY	BOX CULVERT	BOX CULVERT	BOX CULVERT
				0004 S.N. 068-7076	0010 S.N. 068-2508	0010 S.N. 068-2509	0004 S.N. 011-2513
* 63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	575		400		175
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	216.5		94	85	37.5
* 63000370	LONG-SPAN GUARDRAIL OVER CULVERT, 25 FT SPAN	FOOT	50				50
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	10		4	4	2
63200310	GUARDRAIL REMOVAL	FOOT	1484		1160	324	
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	5469		1837	1929	1703
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8		4		4
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	18		6	6	6
67100100	MOBILIZATION	L SUM	1		0.34	0.33	0.33
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	3		1	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5			0.5
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1		0.34	0.33	0.33
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1		0.34	0.33	0.33
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	210		90	60	60

* SPECIALTY ITEM

REV. - MS

MODEL: Default
 FILE NAME: \\PDCHELLER\Drawings\Microstation\11211718B\21CADD\018_S.N. 011-7039\CA\Sheet10672984-act-500.dgn

USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 4/7/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 5 OF 7 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	7
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	

• MONTGOMERY & CHRISTIAN

100%
FEDERAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY	BOX CULVERT	BOX CULVERT	BOX CULVERT
				0004 S.N. 068-7076	0010 S.N. 068-2508	0010 S.N. 068-2509	0004 S.N. 011-2513
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	3		1	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	18		6	6	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	45		15	15	15
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1586		540	521	525
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	177		61	58	58
70300231	TEMPORARY PAVEMENT MARKING - LINE 5" - PAINT	FOOT	10460		3952	3860	2648
70300281	TEMPORARY PAVEMENT MARKING - LINE 24" - PAINT	FOOT	101		22	57	22
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1450		600	487.5	362.5
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1213.5		475	387.5	351
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6		2	2	2
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	6		2	2	2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	10		4	4	2
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	6606		2250	2170	2186
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	39		13	13	13

* SPECIALTY ITEM

REV. - MS

MODEL: D:\draft
FILE NAME: WDC\HELLEN\Drawings\Microstation\1121-7188\21CADD\018 SN 011-7038\CD\sheet10672984-01-500.dgn

USER NAME = mescatel	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/7/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 6 OF 7 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	8
			CONTRACT NO. 72984	
			ILLINOIS FED. AID PROJECT	

• MONTGOMERY & CHRISTIAN

100%
FEDERAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				ROADWAY	BOX CULVERT	BOX CULVERT	BOX CULVERT
				0004 S.N. 068-7076	0010 S.N. 068-2508	0010 S.N. 068-2509	0004 S.N. 011-2513
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	23		10	8	5
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	39		13	13	13
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	2559		880	869	810
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	732		247	239	246
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	164			164	
X7200201	WIDTH RESTRICTION SIGNING	L SUM	1		0.34	0.33	0.33
Z0002900	BASE COURSE (OPTION)	SQ YD	872		230	261	381
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		0.33	0.33	0.34
Z0023600	FILLING EXISTING CULVERTS	EACH	1				1
Z0023602	GRANULAR CULVERT BACKFILL	CU YD	471		143	213	115
∅ Z0076600	TRAINEES	HOUR	1500	1500			
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1		0.34	0.33	0.33
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1500	1500			
* Z0054517	ROCK FILL - FOUNDATION	TON	14			14	

* SPECIALTY ITEM

∅ 0042

REV. - MS

MODEL: Default
FILE NAME: \\PDC\HELLE\Drawings\Microstation\21121718B\21CADD\018_S.N. 011-7039\CA\Sheet10672984-act-500.dgn

USER NAME = mescatel	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 40.0000' / in.	DRAWN -	REVISED -						325	18(B-2, B-3); 16(CR)	*	142	9
PLOT DATE = 4/7/2023	CHECKED -	REVISED -		SCALE: NONE				SHEET 7 OF 7 SHEETS		STA. N/A TO STA. N/A		CONTRACT NO. 72984
	DATE -	REVISED -		ILLINOIS FED. AID PROJECT • MONTGOMERY & CHRISTIAN								

EARTHWORK

LOCATION	20200100 EARTH EXCAVATION CU YD	EARTH EXCAVATION WIDENING CU YD	EXCAVATION USED IN EMBANKMENT (25% SHRINKAGE) CU YD	EMBANKMENT CU YD	EARTHWORK BALANCE "+ " WASTE "- " SHORTAGE
SN 011-2513					
STA 360+50.00 TO STA 04+00.00	967.80	91.00	794.10	297.00	497.10
SN 068-2509					
STA 38+00.00 TO STA 48+00.00	138.90	167.00	229.43	685.20	-455.78
SN 068-2508					
STA 137+00.00 TO STA 148+00.00	1,441.00	106.00	1,160.25	928.00	232.25
TOTAL:	2,547.70	364.00	2,183.78	1,911.00	274.00

20200500 - EARTH EXCAVATION (WIDENING)

LOCATION STATION TO STATION	LENGTH FT	WIDTH FT	DEPTH IN	AREA SQ FT	VOLUME CU YD
SN 011-2513					
STA. 360+53.00 TO STA. 361+00.00 LT	47.00	2.75	8	129.25	3.19
STA. 361+00.00 TO STA. 363+50.00 LT	250.00	3.0	8	750.00	18.52
STA. 364+54.00 TO STA. 364+71.18 LT	17.18	3.0	8	51.54	1.27
STA. 00+00.00 TO STA. 02+10.00 LT	210.00	7.0	8	1470.00	36.30
STA. 00+00.00 TO STA. 02+56.00 RT	256.00	3.5	8	896.00	22.12
STA. 02+10.00 TO STA. 02+80.00 LT	70.00	4.8	8	332.50	8.21
STA. 02+56.00 TO STA. 02+80.00 RT	24.00	1.8	8	42.00	1.04
SN 068-2509					
STA. 38+29.51 TO STA. 39+00.00 LT	70.49	3.5	8	246.71	6.09
STA. 39+00.00 TO STA. 39+50.00 LT	50.00	2.8	8	140.00	3.46
STA. 39+50.00 TO STA. 44+00.00 LT	450.00	2.0	8	900.00	22.22
STA. 44+00.00 TO STA. 44+95.00 LT	95.00	2.8	8	266.00	6.57
STA. 38+29.51 TO STA. 39+30.00 RT	100.49	3.5	8	351.71	8.68
STA. 39+30.00 TO STA. 40+30.00 RT	100.00	5.5	8	550.00	13.58
STA. 40+30.00 TO STA. 42+89.50 RT	259.50	7.5	8	1946.25	48.06
STA. 43+57.50 TO STA. 45+72.50 RT	215.00	7.5	8	1612.50	39.81
STA. 45+72.50 TO STA. 47+60.00 RT	187.50	3.75	8	703.13	17.36
STA. 47+60.00 TO STA. 47+93.91 RT	33.91	1.5	8	50.86	1.26
SN 068-2508					
STA. 138+75.00 TO STA. 139+28.33 LT	53.33	1.00	8	53.33	1.32
STA. 139+28.33 TO STA. 147+34.17 LT	805.84	2.0	8	1611.68	39.79
STA. 147+34.17 TO STA. 147+87.50 LT	53.33	1.00	8	53.33	1.32
STA. 138+00.00 TO STA. 138+92.00 RT	92.00	1.71	8	157.32	3.88
STA. 138+92.00 TO STA. 142+60.00 RT	368.00	3.4	8	1258.56	31.08
STA. 143+28.00 TO STA. 146+20.50 RT	292.50	3.4	8	1000.35	24.70
STA. 146+20.50 TO STA. 147+12.50	92.00	1.7	8	157.32	3.88
TOTAL:				364.00	

SIDE ROAD / ENTRANCE SCHEDULE

LOCATION	TYPE OF ENTRANCE/ SIDEROAD	EX MATERIAL TYPE	PAVED AREA SQ FT	AGGREGATE AREA SQ FT	35101400 AGGREGATE BASE COURSE, TYPE B 6" TON	40800050 INCIDENTA L HMA SURFACING TON	42300400 PORTLAND CEMENT DRIVEWAY PAVEMENT 8" SQ YD
BITUMINOUS MATERIALS COAT RATES MILLED HMA OR PCC SURFACE 0.05 LB/SF HMA LIFT 0.025 LB/SF AGG BASE COURSE 0.25 LB/SF HMA SURFACE 0.056 T/SQYD*IN AGG SURFACE COURSE RATE 1.60 TONS/CU YD							
SN 068-2509							
RT STA. 38+50	CE	AGG		420.0	12.4		
LT STA. 38+53.0	OAK STREET	HMA	222.0			3.6	
RT STA. 39+86.4	CE		420.0				46.7
TOTAL=					13.0	4.0	47.0

RIPRAP

LOCATION	*AREA SQ FT	28200200 FILTER FABRIC SQ YD	28100109 STONE RIPRAP CLASS A5 SQ YD
SN 011-2513			
LT	1,325.00	147.2	147.2
RT	541.00	60.1	60.1
SN 068-2509			
LT	1,057.00	117.4	117.4
RT	1,057.00	117.4	117.4
SN 068-2508			
LT	12,336.00	1,370.7	1,370.7
RT	5,716.00	635.1	635.1
TOTAL:		2,448.0	2,448.0

MODEL Path: \\C:\Users\mescat\OneDrive\Documents\20200500\20200500.dwg
FILE NAME: \\C:\Users\mescat\OneDrive\Documents\20200500\20200500.dwg

USER NAME = mescat	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -	
PLOT DATE = 5/11/2023	DATE -	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 1 OF 12 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	10
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

SEEDING & FERTILIZER

LOCATION	*AREA SQ FT	25000200	25000400	25000500	25000600	25000700	25100115
		SEEDING, CLASS 2 ACRE	NITROGEN FERT NUTRIENT POUND	PHOSPHORUS FERT NUTRIENT POUND	POTASSIUM FERT NUTRIENT POUND	AGRICULTURAL GROUND LIMESTONE TON	MULCH, METHOD 2 ACRE
SN 011-2513 PR ROW LINE TO PR ROW LINE (DEDUCT ROAD & RIPRAP)	35,700.00	0.82	73.76	73.76	73.76	1.64	0.82
SN 068-2509 PR ROW LINE TO PR ROW LINE (DEDUCT ROAD & RIPRAP)	18,094.00	0.42	37.38	37.38	37.38	0.83	0.42
SN 068-2508 PR ROW LINE TO PR ROW LINE (DEDUCT ROAD & RIPRAP)	54,258.00	1.25	112.10	112.10	112.10	2.49	1.25
TOTAL :		2.48	224.00	224.00	224.00	5.00	2.48

*MEASURED IN CADD

EROSION CONTROL

LOCATION	AVE LENGTH FOOT	*AREA SQ FT	28000250	28000305	28000400	28000500
			TEMPORARY EROSION CONTROL SEEDING POUND	TEMPORARY DITCH CHECKS FOOT	PERIMETER EROSION BARRIER FOOT	INLET AND PIPE PROTECTION EACH
SN 011-2513 PR ROW LINE TO PR ROW LINE (DEDUCT ROAD & RIPRAP)		35,700.00	81.96			
LT (STA 361+50, 363+00, 1+00 & 2+50)	11.00			44.00		
RT (STA 361+50, 363+00, 0+00, 1+00 & 2+50)	11.00			55.00		
LT STA 43+00					26.00	
LT STA 43+47.45 TO STA 45+00					182.00	
RT STA 43+00					16.00	
RT STA 43+46.97 TO STA 47+93.91					475.00	
LT STA 363+38.8						1.00
LT STA 363+58.2						1.00
LT STA 363+75.5						1.00
LT STA 0+01.2						1.00
SN 068-2509 PR ROW LINE TO PR ROW LINE (DEDUCT ROAD & RIPRAP)		18,094.00	41.54			
LT (STA 39+00, 39+50, 40+15, 40+85, 41+45, 42+15, 42+80 & 43+60)	11.00			88.00		
RT (STA 42+15, 42+80 & 43+75)	11.00			33.00		
SN 068-2508 PR ROW LINE TO PR ROW LINE (DEDUCT ROAD & RIPRAP)		54,258.00	124.56			
LT (STA 140+00, 141+00, 142+00, 142+50, 143+55, 144+50, 145+55 & 146+55)	11.00			88.00		
RT (STA 140+00, 141+00, 142+00, 142+50, 143+55, 144+50, 145+55 & 146+55)	11.00			88.00		
TOTAL :			248.05	396.00	699.00	4.00

*MEASURED IN CADD

MODEL Path: \\C:\Users\mescat\OneDrive\Documents\72984\Drawings\72984-ent-Schedule.dgn
FILE NAME: \\C:\Users\mescat\OneDrive\Documents\72984\Drawings\72984-ent-Schedule.dgn

USER NAME = mescat	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 */ in.	DRAWN -	REVISED -
PLOT DATE = 4/28/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 2 OF 12 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	11
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

* MONTGOMERY & CHRISTIAN

DRAINAGE IMPROVEMENTS

	50800105 REINFORCEMENT BARS	54002020 EXPANSION BOLTS 3/4"	54248510 CONCRETE COLLAR	542D0229 PIPE CULVERTS CL D, TY 1 24"	5421D048 PIPE CULVERTS CL D, TY 1 48" TEMPORARY	54213660 PRC FLARED END SECTIONS 15"	54262724 METAL FLARED END SECTIONS 24"	550A0070 STORM SEWERS CL A, TY 1 15"	60236200 INLETS TY A TY 8 GRATE
LOCATION									
STATION TO STATION	POUND	EACH	CU YD	FOOT	FOOT	EACH	EACH	FOOT	EACH
SN 011-2513									
STA. 364+29.00 TO STA. 00+00.00 LT				42					
STA. 363+41.00 2 - 12' BARRELS LT					24				
STA. 364+50.00 LT							2.00		
STA. 363+41.00 LT	45	18	2.90						
SN 068-2509									
STA. 40+07.50 TO STA. 41+24.00 RT								117.00	
STA. 41+26.00 TO STA. 42+00.00 RT								74.00	
STA. 42+00.00 RT						1			
STA. 40+06.50 RT									1.00
STA. 41+25.00 RT									1.00
TOTAL :	45	18	2.9	42	24	1	2.00	191.00	2.00

MODEL Path: \\C:\CHEL\EDData\Drawings\Microstation\011-2513\CADData SN 011-2513\CADSheet\0672984-ent-Schedule.dgn
 FILE NAME: \\C:\CHEL\EDData\Drawings\Microstation\011-2513\CADData SN 011-2513\CADSheet\0672984-ent-Schedule.dgn

USER NAME = mesca1	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -	
PLOT DATE = 5/10/2023	DATE -	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 3 OF 12 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	12
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

78001120 - PAINT PAVEMENT MARKING - LINE 5"

STATION TO STATION	FOOT	LENGTH	CENTERLINE	EDGE LINE
		FOOT	(YELLOW)	(WHITE)
			SKIP-DASH FOOT	SOLID FOOT
SN 011-2513				
STA. 359+00.00 TO STA. 364+71.18 LT	571.18			571.18
STA. 359+00.00 TO STA. 364+71.18	571.18	142.80		
STA. 359+00.00 TO STA. 364+71.18 RT	571.18			571.18
STA. 00+00.00 TO STA. 04+00.00 LT	400.00			400.00
STA. 00+00.00 TO STA. 04+00.00	400.00	100.00		
STA. 00+00.00 TO STA. 04+00.00 RT	400.00			400.00
SN 068-2509				
STA. 38+29.51 TO STA. 47+93.91 LT	964.40			964.40
STA. 38+29.51 TO STA. 47+93.91	964.40	241.10		
STA. 38+29.51 TO STA. 47+93.91 RT	964.40			964.40
SN 068-2508				
STA. 138+00.00 TO STA. 148+00.00 LT	1,000.00			1,000.00
STA. 138+00.00 TO STA. 148+00.00	1,000.00	250.00		
STA. 138+00.00 TO STA. 148+00.00 RT	1,000.00			1,000.00
SUB TOTAL :		733.90		5,871.16
TOTAL :		6,606.00		

70300100 - SHORT TERM PAVEMENT MARKING

LOCATION STATION TO STATION	LENGTH FT	TYPE (4")	
		YELLOW FT	WHITE FT
		SN 011-2513	
STA. 359+00.00 TO STA. 364+71.18 LT	571.18		22.85
STA. 359+00.00 TO STA. 364+71.18	571.18	57.12	
STA. 359+00.00 TO STA. 364+71.18 RT	571.18		22.85
STA. 00+00.00 TO STA. 04+00.00 LT	400.00		16.00
STA. 00+00.00 TO STA. 04+00.00	400.00	40.00	
STA. 00+00.00 TO STA. 04+00.00 RT	400.00		16.00
SN 068-2509			
STA. 38+29.51 TO STA. 47+93.91 LT	964.40		38.58
STA. 38+29.51 TO STA. 47+93.91	964.40	96.44	
STA. 38+29.51 TO STA. 47+93.91 RT	964.40		38.58
SN 068-2508			
STA. 138+00.00 TO STA. 148+00.00 LT	1,000.00		40.00
STA. 138+00.00 TO STA. 148+00.00	1,000.00	100.00	
STA. 138+00.00 TO STA. 148+00.00 RT	1,000.00		40.00
SUBTOTAL :		293.56	234.85
(3 APPLICATIONS) :		880.67	704.54
TOTAL :		1,586.00	

PAVEMENT MARKERS

78100100 - RAISED REFLECTIVE PAVEMENT MARKER		
78300200 - RAISED REFLECTIVE PAVEMENT MARKER REMOVAL		
LOCATION STATION TO STATION	LENGTH FT	TWO-WAY AMBER EACH
SN 011-2513	971.18	13
SN 068-2509	964.40	13
SN 068-2508	1,000.00	13
TOTAL :		39

78300201 - PAVEMENT MARKING REMOVAL - GRINDING

STATION TO STATION	LENGTH FOOT	WIDTH INCH	CENTERLINE SQ FT	EDGE LINE SQ FT
	SN 011-2513			
STA. 359+70.00 TO STA. 364+71.18 LT	501.18	5.00		208.83
STA. 00+00.00 TO STA. 03+30.00 LT	330.00	5.00		137.50
STA. 359+70.00 TO STA. 362+00.00	230.00	5.00	23.96	
STA. 00+00.00 TO STA. 03+30.00	330.00	5.00	34.38	
STA. 359+00.00 TO STA. 364+71.18 RT	571.18	5.00		237.99
STA. 00+00.00 TO STA. 04+00.00 RT	400.00	5.00		166.67
SN 068-2509				
STA. 38+29.51 TO STA. 47+93.91 LT	964.40	5.00		401.83
STA. 38+29.51 TO STA. 41+15.00	285.49	5.00	29.74	
STA. 44+50.00 TO STA. 47+93.71	343.71	5.00	35.80	
STA. 38+29.51 TO STA. 47+93.91 RT	964.40	5.00		401.83
SN 068-2508				
STA. 138+00.00 TO STA. 148+00.00 LT	1,000.00	5.00		416.67
STA. 138+00.00 TO STA. 139+70.00	170.00	5.00	17.71	
STA. 145+20.00 TO STA. 148+00.00	280.00	5.00	29.17	
STA. 138+00.00 TO STA. 148+00.00 RT	1,000.00	5.00		416.67
SUB TOTAL :			170.75	2,387.98
TOTAL :			2,559.00	

MODEL Path: \\C:\CHEL\EDData\Drawings\Microstation\1121718821\CADData_SN 011-2513\CADSheet\0672984-ent-Schedule.dgn

USER NAME = mescaat	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40,0000 */ in.	CHECKED -	REVISED -	
PLOT DATE = 5/10/2023	DATE -	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 4 OF 12 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	13
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

* MONTGOMERY & CHRISTIAN

PAVEMENT REMOVAL

LOCATION	LENGTH	WIDTH	AREA	40600982 HMA SURFACE REMOVAL BUTT JOINT	44000100 PAVEMENT REMOVAL	44004250 PAVED SHOULDER REMOVAL	X4401198 HMA SURFACE REMOVAL, VARIABLE DEPTH
STATION TO STATION	FT	FT	SQ FT	SQ YD	SQ YD	SQ YD	SQ YD
SN 011-2513							
STA. 359+00.00 TO STA. 359+30.00	30.00	22.00	660.00	73.33			
STA. 03+70.00 TO STA. 04+00.00	30.00	22.00	660.00	73.33			
STA. 363+50.00 TO STA. 364+54.00			3,016.00		335.11		
STA. 00+00.00 TO STA. 02+80.00 LT			420.00			46.67	
STA. 00+00.00 TO STA. 02+80.00 RT			560.00			62.22	
SN 068-2509							
STA. 38+53.00 LT			220.22	24.47			
STA. 38+29.51 TO STA. 38+59.51	30.00	22.00	660.00	73.33			
STA. 47+63.91 TO STA. 47+93.91	30.00	22.00	660.00	73.33			
STA. 42+89.50 TO STA. 43+07.20			389.00		43.22		
STA. 43+38.99 TO STA. 43+57.50			407.00		45.22		
STA. 38+29.51 TO STA. 43+07.20 LT			1,002.00			111.33	
STA. 43+38.99 TO STA. 45+00.00 LT			1,430.00			158.89	
STA. 38+29.51 TO STA. 43+07.20 RT			1,577.00			175.22	
STA. 43+38.99 TO STA. 47+93.91 RT			1,363.00			151.44	
STA. 45+00.00 TO STA. 47+93.91 LT	293.91	5.00	1,469.55				163.28
SN 068-2508							
STA. 138+00.00 TO STA. 138+30.00	30.00	25.00	750.00	83.33			
STA. 147+70.00 TO STA. 148+00.00	30.00	25.00	750.00	83.33			
STA. 142+60.00 TO STA. 142+87.02			593.00		65.89		
STA. 143+12.89 TO STA. 143+28.00			332.00		36.89		
STA. 138+75.00 TO STA. 142+87.02 LT			618.00			68.67	
STA. 143+12.89 TO STA. 147+70.00 LT			686.00			76.22	
STA. 138+00.00 TO STA. 142+87.02 RT			776.00			86.22	
STA. 143+12.89 TO STA. 147+12.50 RT			599.00			66.56	
TOTAL :				485.00	527.00	1,004.00	164.00

50105220		
PIPE CULVERT REMOVAL		
LOCATION	TYPE	LENGTH FT
SN 011-2513		
STA. 364+03.00 LT 24"	CMP	29.00
TOTAL :		29.00

GUARDRAIL REMOVAL	
	63200310 GUARDRAIL REMOVAL
LOCATION STATION TO STATION	FOOT
SN 068-2509	
NE QUADRANT	81.00
NW QUADRANT	81.00
SE QUADRANT	81.00
SW QUADRANT	81.00
SN 068-2508	
NE QUADRANT	235.00
NW QUADRANT	334.00
SE QUADRANT	345.00
SW QUADRANT	246.00
TOTAL :	
1,484.00	

MODEL Path: \\C:\Users\mescat\OneDrive\Documents\Drawings\Microstation\212\171882\1\CADData\SN 011-2513\CADSheet\0672984-ent-Schedule.dgn
 FILE NAME: \\C:\Users\mescat\OneDrive\Documents\Drawings\Microstation\212\171882\1\CADData\SN 011-2513\CADSheet\0672984-ent-Schedule.dgn

MAINLINE IMPROVEMENTS

MILLED HMA OR PCC (TACK COAT) RATE - 0.05 POUNDS/SF				35501316	40600290	40602965	40603080	40604050	Z0002900		
HMA LIFT (TACK COAT) RATE - 0.025 POUNDS/SF				HMA	BITUMINOUS	HMA BINDER	HMA BINDER	HMA SURFACE	BASE		
AGGREGATE BASE COURSE (PRIME COAT) RATE - 0.25 POUNDS/SF				BASE COURSE	MATERIALS	COURSE	COURSE	COURSE	COURSE		
BITUMINOUS SURFACE / BINDER (112 LBS) RATE - 0.056 T/SY*IN				8"	(TACK COAT)	1L 9.5FG, N50	1L 19.0FG, N50	1L 9.5, MIX "C", N50	(OPTION)		
LOCATION				LENGTH	WIDTH	AREA					
STATION TO STATION				FT	FT	SQ FT	SQ YD	POUNDS	TON	TON	SQ YD
SN 011-2513											
STA.	LT	360+53.00	TO STA.	361+00.00	47.00	2.75	129.25	14.36			
STA.	LT	361+00.00	TO STA.	363+50.00	250.00	3.00	750.00	83.33			
STA.	LT	363+50.00	TO STA.	364+54.00	104.00	7.00	728.00	80.89			
STA.	LT	364+54.00	TO STA.	364+71.18	17.18	3.00	51.54	5.73			
STA.	LT	00+00.00	TO STA.	02+10.00	210.00	7.00	1,470.00	163.33			
STA.	LT	02+10.00	TO STA.	02+80.00	70.00	4.80	336.00	37.33			
STA.	RT	00+00.00	TO STA.	02+56.00	256.00	4.00	1,024.00	113.78			
STA.	RT	02+56.00	TO STA.	02+80.00	24.00	3.25	78.00	8.67			
STA.	LT & RT	359+30.00	TO STA.	359+55.00	25.00	11.00	550.00	41.25		7.27	
STA.	LT & RT	359+55.00	TO STA.	363+50.00	395.00	11.00	8,690.00	651.75	67.59	81.11	
STA.	LT & RT	363+50.00	TO STA.	364+54.00	104.00	11.00	2,288.00	57.20	17.80	21.35	
STA.	LT & RT	363+50.00	TO STA.	364+54.00	104.00	33.00	3,432.00				381.33
STA.	LT & RT	364+54.00	TO STA.	364+71.18	17.18	11.00	377.96	28.35	2.94	3.53	
STA.	LT & RT	00+00.00	TO STA.	03+45.00	345.00	11.00	7,590.00	569.25	59.03	70.84	
STA.	LT & RT	03+45.00	TO STA.	03+70.00	25.00	11.00	550.00	41.25		7.27	
FROM SHOULDERS							8,787.00	439.35			
SN 068-2509											
STA.	LT	38+29.51	TO STA.	39+00.00	70.49	5.00	352.45	39.16			
STA.	LT	39+00.00	TO STA.	39+50.00	50.00	4.30	215.00	23.89			
STA.	LT	39+50.00	TO STA.	43+57.50	407.50	3.50	1,426.25	158.47			
STA.	LT	43+57.50	TO STA.	44+95.00	137.50	4.30	591.25	65.69			
STA.	LT	44+95.00	TO STA.	45+00.00	5.00	5.00	25.00	2.78			
STA.	RT	38+29.51	TO STA.	39+30.00	100.49	5.00	502.45	55.83			
STA.	RT	39+30.00	TO STA.	40+30.00	100.00	7.00	700.00	77.78			
STA.	RT	40+30.00	TO STA.	42+89.50	259.50	9.00	2,335.50	259.50			
STA.	RT	43+57.50	TO STA.	45+72.50	215.00	9.00	1,935.00	215.00			
STA.	RT	45+72.50	TO STA.	47+60.00	187.50	5.25	984.38	109.38			
STA.	RT	47+60.00	TO STA.	47+93.91	33.91	1.50	50.86	5.65			
BETWEEN STAGE LIFT & LEVELING BINDER											
STA.	LT & RT	42+00.00	TO STA.	44+50.00	250.00	34.50	8,625.00	215.63			
STA.	LT & RT	38+59.51	TO STA.	38+84.51	25.00	11.00	550.00	41.25		7.27	
STA.	LT & RT	38+84.51	TO STA.	42+89.50	404.99	11.00	8,909.78	668.23	69.30	83.16	
STA.	LT & RT	42+89.50	TO STA.	43+57.50	68.00	34.50	2,346.00		129.48		260.67
STA.	LT & RT	42+89.50	TO STA.	43+57.50	68.00	11.00	1,496.00	112.20	11.64	13.96	
STA.	LT & RT	43+57.50	TO STA.	47+38.91	381.41	11.00	8,391.02	629.33	65.26	78.32	
STA.	LT & RT	47+38.91	TO STA.	47+63.91	25.00	11.00	550.00	41.25		7.27	
FROM SHOULDERS							11,158.44	557.92			
STA.	LT & RT	42+00.00	TO STA.	42+50.00	50.00	34.50	1,725.00	129.38	13.42	36.06	
STA.	LT & RT	42+50.00	TO STA.	42+89.50	39.50	34.50	1,362.75	102.21	10.60	72.07	
STA.	LT & RT	43+57.50	TO STA.	44+00.00	42.50	34.50	1,466.25	109.97	11.40	84.30	
STA.	LT & RT	44+00.00	TO STA.	44+50.00	50.00	34.50	1,725.00	129.38	13.42	41.22	

MODEL Path: \\C:\Users\mescat\OneDrive\Documents\Drawings\MicroStation\11212188B21CAD\Draw_SN 011-2513\CAD\Sheet\0672984-ent-Schedule.dgn
 FILE NAME: \\C:\Users\mescat\OneDrive\Documents\Drawings\MicroStation\11212188B21CAD\Draw_SN 011-2513\CAD\Sheet\0672984-ent-Schedule.dgn

USER NAME = mescat	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 */ in.	CHECKED -	REVISED -
PLOT DATE = 5/10/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 6 OF 12 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	15
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

* MONTGOMERY & CHRISTIAN

MAINLINE IMPROVEMENTS

MILLED HMA OR PCC (TACK COAT) RATE - 0.05 POUNDS/SF				35501316 HMA BASE COURSE 8"	40600290 BITUMINOUS MATERIALS (TACK COAT) POUNDS	40602965 HMA BINDER COURSE IL 9.5FG, N50 TON	40603080 HMA BINDER COURSE IL 19.0FG, N50 TON	40604050 HMA SURFACE COURSE IL 9.5, MIX "C", N50 TON	Z0002900 BASE COURSE (OPTION) SQ YD			
HMA LIFT (TACK COAT) RATE - 0.025 POUNDS/SF												
AGGREGATE BASE COURSE (PRIME COAT) RATE - 0.25 POUNDS/SF												
BITUMINOUS SURFACE / BINDER (112 LBS) RATE - 0.056 T/SY*IN												
LOCATION STATION TO STATION				LENGTH FT	WIDTH FT	AREA SQ FT						
SN 068-2508												
STA.	LT	138+75.00	TO STA.	139+28.33	53.33	2.50	133.33	14.81				
STA.	LT	139+28.33	TO STA.	147+34.17	805.84	3.50	2,820.44	313.38				
STA.	LT	147+34.17	TO STA.	147+87.50	53.33	2.50	133.33	14.81				
STA.	RT	138+00.00	TO STA.	138+92.00	92.00	3.21	295.32	32.81				
STA.	RT	138+92.00	TO STA.	142+60.00	368.00	4.92	1,810.56	201.17				
STA.	RT	143+28.00	TO STA.	146+20.50	292.50	4.92	1,439.10	159.90				
STA.	RT	146+20.50	TO STA.	147+12.50	92.00	3.21	295.32	32.81				
BETWEEN STAGE LIFT & LEVELING BINDER												
STA.	LT	141+50.00	TO STA.	144+50.00	300.00	20.00	6,000.00	150.00				
	RT	141+50.00	TO STA.	144+50.00	300.00	16.92	5,076.00	126.90				
STA.	LT & RT	138+30.00	TO STA.	138+55.00	25.00	11.00	550.00	41.25		7.27		
STA.	LT & RT	138+55.00	TO STA.	142+60.00	405.00	11.00	8,910.00	668.25	69.30	83.16		
STA.	LT & RT	142+60.00	TO STA.	143+28.00	68.00	30.42	2,068.56		193.07	229.84		
STA.	LT & RT	142+60.00	TO STA.	143+28.00	68.00	11.00	1,496.00	112.20	11.64	13.96		
STA.	LT & RT	143+28.00	TO STA.	147+45.00	417.00	11.00	9,174.00	688.05	71.35	85.62		
STA.	LT & RT	147+45.00	TO STA.	147+70.00	25.00	11.00	550.00	41.25		7.27		
FROM SHOULDERS							7,658.00	382.90				
STA.	LT & RT	141+50.00	TO STA.	141+80.00	30.00	30.92	927.60	69.57	7.21	17.32		
STA.	LT & RT	141+80.00	TO STA.	142+00.00	20.00	30.92	618.40	46.38	4.81	23.09		
STA.	LT & RT	142+00.00	TO STA.	142+50.00	50.00	30.92	1,546.00	115.95	12.02	130.44		
STA.	LT & RT	142+50.00	TO STA.	142+60.00	10.00	30.92	309.20	23.19	2.40	28.40		
STA.	LT & RT	143+28.00	TO STA.	143+50.00	22.00	30.92	680.24	51.02	5.29	64.50		
STA.	LT & RT	143+50.00	TO STA.	144+00.00	50.00	30.92	1,546.00	115.95	12.02	130.44		
STA.	LT & RT	144+00.00	TO STA.	144+20.00	20.00	30.92	618.40	46.38	4.81	34.63		
STA.	LT & RT	144+20.00	TO STA.	144+50.00	30.00	30.92	927.60	69.57	7.21	20.78		
TOTAL :							2,291.00	7,314.00	551.00	1,006.00	579.00	872.00

MODEL Path: \\C:\Users\mescate\OneDrive\Documents\Drawings\72984\72984-Sub-Schedule.dgn
 FILE NAME: \\C:\Users\mescate\OneDrive\Documents\Drawings\72984\72984-Sub-Schedule.dgn

USER NAME = mescate	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 5/10/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 7 OF 12 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	16
CONTRACT NO. 72984				

ILLINOIS FED. AID PROJECT
• MONTGOMERY & CHRISTIAN

SHOULDER IMPROVEMENTS

MILLED HMA OR PCC (TACK COAT) RATE - 0.05 POUNDS/SF AGG BASE COURSE (PRIME COAT) RATE - 0.25 POUNDS/SF HMA SHOULDER (112 LBS) RATE - 0.056 T/SY*IN AGG (SHOULDERS, WEDGE SHOULDERS) RATE - 1.6 T/CY SHOULDER THICKNESS (IN) - 2.75 TYPICAL						48101200 AGGREGATE SHOULDERS, TY B	48102100 AGGREGATE WEDGE SHLD, TY B	48203100 HMA SHOULDERS 2 3/4"	64200108 SHOULDER RUMBLE STRIPS 8 INCH
LOCATION	LENGTH	WIDTH	DEPTH	VOLUME	AREA HMA				
STATION TO STATION	FT	FT	IN	CU YD	SQ YD	TON	TON	TON	FOOT
SN 011-2513									
STA. 363+50.00 TO STA. 364+54.00	LT	104.00	4.0	2.75	3.53		5.65		
STA. 363+50.00 TO STA. 364+54.00	RT	104.00	2.0	2.75	1.77		2.82		
STA. 359+00.00 TO STA. 360+53.00	LT	153.00	3.0	1.875	2.66			4.25	
STA. 359+00.00 TO STA. 360+53.00	RT	153.00	3.0	1.875	2.66			4.25	
STA. 360+53.00 TO STA. 361+00.00	LT	47.00	3.5	1.875	0.95			1.52	
STA. 360+53.00 TO STA. 361+00.00	RT	47.00	2.5	1.875	0.68			1.09	
STA. 361+00.00 TO STA. 363+50.00	RT	250.00	2.0	1.875	2.89			4.63	
STA. 361+00.00 TO STA. 363+50.00	LT	250.00	4.0	1.875	5.79			9.26	
STA. 364+54.00 TO STA. 364+71.18	LT	17.18	4.0	1.875	0.40			0.64	
STA. 364+54.00 TO STA. 364+71.18	RT	17.18	2.0	1.875	0.20			0.32	
STA. 00+00.00 TO STA. 04+00.00	LT	400.00	4.0	1.875	9.26			14.81	
STA. 00+00.00 TO STA. 02+56.00	RT	256.00	2.0	1.875	2.96			4.74	
STA. 02+56.00 TO STA. 02+80.00	RT	24.00	3.0	1.875	0.42			0.67	
STA. 02+80.00 TO STA. 04+00.00	RT	120.00	4.0	1.875	2.78			4.44	
STA. 359+00.00 TO STA. 360+53.00	LT	153.00	4.00		612.00			10.47	153.00
STA. 360+53.00 TO STA. 361+00.00	LT	47.00	6.75		317.25			5.43	47.00
STA. 361+00.00 TO STA. 363+50.00	LT	250.00	7.0		1,750.00			29.94	250.00
STA. 359+00.00 TO STA. 363+50.00	RT	450.00	4.00		1,800.00			30.80	450.00
STA. 363+50.00 TO STA. 364+54.00	LT	104.00	7.0		728.00			12.46	104.00
STA. 363+50.00 TO STA. 364+54.00	RT	104.00	4.0		416.00			7.12	104.00
STA. 364+54.00 TO STA. 364+71.18	LT	17.18	7.0		120.26			2.06	17.18
STA. 364+54.00 TO STA. 364+71.18	RT	17.18	4.0		68.72			1.18	17.18
STA. 00+00.00 TO STA. 02+10.00	LT	210.00	7.0		1,470.00			25.15	210.00
STA. 02+10.00 TO STA. 02+80.00	LT	70.00	5.75		402.50			6.89	70.00
STA. 00+00.00 TO STA. 02+56.00	RT	256.00	4.0		1,024.00			17.52	256.00
STA. 02+56.00 TO STA. 02+80.00	RT	24.00	3.25		78.00			1.33	24.00
SN 068-2509									
STA. 38+29.51 TO STA. 47+93.51	RT	964.00	3.3	2.75	26.59		42.55		
STA. 38+29.51 TO STA. 45+00.00	LT	670.49	3.3	2.75	18.50		29.59		
STA. 38+29.51 TO STA. 39+00.00	LT	70.49	5.0		352.45			6.03	70.49
STA. 39+00.00 TO STA. 39+50.00	LT	50.00	4.3		212.50			3.64	50.00
STA. 39+50.00 TO STA. 44+00.00	LT	450.00	3.5		1,575.00			26.95	450.00
STA. 44+00.00 TO STA. 44+95.00	LT	95.00	4.3		403.75			6.91	95.00
STA. 44+95.00 TO STA. 45+00.00	LT	5.00	5.0		25.00			0.43	5.00
STA. 45+00.00 TO STA. 47+93.91	LT	293.91	5.0		1,469.55			25.15	293.91
STA. 38+29.51 TO STA. 39+30.00	RT	100.49	5.0		502.45			8.60	100.49
STA. 39+30.00 TO STA. 40+30.00	RT	100.00	7.0		700.00			11.98	100.00
STA. 40+30.00 TO STA. 42+89.50	RT	259.50	9.0		2,335.50			39.96	259.50
STA. 42+89.50 TO STA. 43+57.50	RT	68.00	9.0		612.00			10.47	68.00
STA. 43+57.50 TO STA. 45+72.50	RT	215.00	9.0		1,935.00			33.11	215.00
STA. 45+72.50 TO STA. 47+60.00	RT	187.50	5.3		984.38			16.84	187.50
STA. 47+60.00 TO STA. 47+93.91	RT	33.91	1.5		50.86			0.87	33.91

MODEL Path: \\C:\CHEL\ED\Drawings\Microstation\112-11788B2\CADData_SN 011-2513\CADsheet\067298-ent-Schedule.dgn
 FILE NAME: \\C:\CHEL\ED\Drawings\Microstation\112-11788B2\CADData_SN 011-2513\CADsheet\067298-ent-Schedule.dgn

USER NAME = mesca@i	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40,0000 */ in.	CHECKED -	REVISED -	
PLOT DATE = 5/10/2023	DATE -	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 8 OF 12 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNT	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	17
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

SHOULDER IMPROVEMENTS

MILLED HMA OR PCC (TACK COAT) RATE - 0.05 POUNDS/SF	48101200	48102100	48203100	64200108					
AGG BASE COURSE (PRIME COAT) RATE - 0.25 POUNDS/SF	AGGREGATE	AGGREGATE	HMA	SHOULDER					
HMA SHOULDER (112 LBS) RATE - 0.056 T/SY*IN	SHOULDERS,	WEDGE SHLD,	SHOULDERS	RUMBLE					
AGG (SHOULDERS, WEDGE SHOULDERS) RATE - 1.6 T/CY	TY B	TY B	2 3/4"	STRIPS					
SHOULDER THICKNESS (IN) - 2.75 TYPICAL				8 INCH					
LOCATION	LENGTH	WIDTH	DEPTH	VOLUME	AREA				
STATION TO STATION	FT	FT	IN	CU YD	HMA	TON	TON	TON	FOOT
					SQ YD				
SN 068-2508									
STA. 138+00.00 TO STA. 138+75.00 LT	75.00	3.0	1.875	1.30			2.08		
STA. 147+12.56 TO STA. 148+00.00 RT	87.44	3.0	1.875	1.52			2.43		
STA. 147+87.50 TO STA. 148+00.00 LT	12.50	3.0	1.875	0.22			0.35		
STA. 138+75.00 TO STA. 147+87.50 LT	912.50	3.0	2.75	23.23		37.18			
STA. 138+00.00 TO STA. 138+92.00 RT	92.00	2.5	2.75	1.95		3.12			
STA. 138+92.00 TO STA. 146+20.50 RT	728.50	2.0	2.75	12.37		19.79			
STA. 146+20.50 TO STA. 147+12.50 RT	92.00	2.5	2.75	1.95		3.12			
STA. 138+00.00 TO STA. 138+75.00 LT	75.00	1.5			112.50			1.93	
STA. 138+75.00 TO STA. 139+28.33 LT	53.33	2.50			133.33			2.28	53.33
STA. 139+28.53 TO STA. 147+34.17 LT	805.64	3.5			2,819.74			48.25	805.64
STA. 147+34.17 TO STA. 147+87.50 LT	53.33	5.0			266.65			4.56	53.33
STA. 147+87.50 TO STA. 148+00.00 LT	12.50	1.5			18.75			0.32	12.50
STA. 138+00.00 TO STA. 138+92.00 RT	92.00	3.21			295.32			5.05	92.00
STA. 138+92.00 TO STA. 146+20.50 RT	728.50	4.9			3,584.22			61.33	728.50
STA. 146+20.50 TO STA. 147+12.50 RT	92.00	3.21			295.32			5.05	92.00
STA. 147+12.50 TO STA. 148+00.00 RT	87.50	1.50			131.25			2.25	
TOTAL :						144.00	56.00	473.00	5,469.00

MODEL Path: \\C:\CHEL\ED\Drawings\Microstation\112\1121882\1\CAD\Draw_Schedule.dgn

USER NAME = mesca1	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 5/10/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 9 OF 12 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	18
CONTRACT NO. 72984				

ILLINOIS FED. AID PROJECT • MONTGOMERY & CHRISTIAN

GUARDRAIL

	63000001 STEEL PLATE BEAM GUARDRAIL TYPE A 6 FOOT POSTS FOOT	63000003 STEEL PLATE BEAM GUARDRAIL TYPE A 9 FOOT POSTS FOOT	63000030 STRONG POST GUARDRAIL ATTACHED TO CULVERT FOOT	63000370 LONG-SPAN GUARDRAIL OVER CULVERT 25 FT SPAN FOOT	63100167 TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT EACH	72501000 TERMINAL MARKER DIRECT APPLIED EACH	78200005 GUARDRAIL REFLECTORS TYPE A EACH
LOCATION STATION TO STATION							
SN 011-2513							
STA. RT 362+56.25 TO STA. 363+06.25					1.00	1.00	
STA. RT 363+06.25 TO STA. 363+18.75		12.50					
STA. RT 363+18.75 TO STA. 363+58.75				50.00			
STA. RT 363+58.75 TO STA. 364+06.25		37.50					
STA. RT 364+06.25 TO STA. 364+43.75			37.50				
STA. RT 364+43.75 TO STA. 00+97.57		125.00					
STA. RT 00+97.57 TO STA. 01+47.57					1.00	1.00	
STA. RT 362+56.00 TO STA. 01+47.57							5.00
SN 068-2509							
STA. RT 41+39.92 TO STA. 41+89.92					1.00	1.00	
STA. RT 41+89.92 TO STA. 43+02.42	112.50						
STA. RT 43+02.42 TO STA. 43+44.58			42.30				
STA. RT 43+44.58 TO STA. 44+19.58	75.00						
STA. RT 44+19.58 TO STA. 44+69.58					1.00	1.00	
STA. RT 41+39.92 TO STA. 44+69.58							4.00
STA. LT 41+77.42 TO STA. 42+27.42					1.00	1.00	
STA. LT 42+27.42 TO STA. 43+02.42	75.00						
STA. LT 43+02.42 TO STA. 43+44.58			42.30				
STA. LT 43+44.58 TO STA. 44+19.58	75.00						
STA. LT 44+19.58 TO STA. 44+69.58					1.00	1.00	
STA. LT 41+77.42 TO STA. 44+69.58							4.00
SN 068-2508							
STA. RT 140+96.56 TO STA. 141+46.56					1.00	1.00	
STA. RT 141+46.56 TO STA. 142+71.56		125.00					
STA. RT 142+71.56 TO STA. 143+18.43			46.875				
STA. RT 143+18.43 TO STA. 143+93.43		75.00					
STA. RT 143+93.43 TO STA. 144+43.43					1.00	1.00	
STA. RT 140+96.56 TO STA. 144+43.43							5.00
STA. LT 141+46.56 TO STA. 141+96.56					1.00	1.00	
STA. LT 141+96.56 TO STA. 142+71.56		75.00					
STA. LT 142+71.56 TO STA. 143+18.43			46.875				
STA. LT 143+18.43 TO STA. 144+43.43		125.00					
STA. LT 144+43.43 TO STA. 144+93.43					1.00	1.00	
STA. LT 141+46.56 TO STA. 144+93.43							5.00
TOTAL :	337.50	575.00	216.50	50.00	10.00	10.00	23.00

MODEL Path: \\C:\CHEL\ED\Drawings\Microstation\112\112188B2\CADData SN 011-2513\CADSheet\0672984-ent-Schedule.dgn

USER NAME = mescaat	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 5/11/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 10 OF 12 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	19
CONTRACT NO. 72984				

ILLINOIS FED. AID PROJECT
* MONTGOMERY & CHRISTIAN

TEMPORARY CONCRETE BARRIER

STATION TO STATION	LENGTH FOOT	70400100	70400200	70600260	70600332
		TEMP CONCRETE BARRIER FOOT	RELOCATE TEMP CONCRETE BARRIER FOOT	IMPACT ATT TEMP FULLY REDIRECTIVE NARROW TL3 EACH	IMPACT ATT RELOCATE FULLY REDIRECTIVE NARROW TL3 EACH
SN 011-2513					
STAGE 1					
STA. 362+20.00 6' RT TO STA. 363+20.00 5' LT	100.00	100.00		1.00	
STA. 363+20.00 5' LT TO STA. 364+71.18 5' LT	150.00	150.00			
STA. 00+00.00 5' LT TO STA. 00+28.82 5' LT	25.00	25.00			
STA. 00+28.82 5' LT TO STA. 01+16.32 6' RT	87.50	87.50		1.00	
STAGE 2					
STA. 362+44.30 9' LT TO STA. 363+01.08 0' RT	56.78		57.00		1.00
STA. 363+01.08 0' RT TO STA. 363+20.00 3' RT	18.92		19.00		
STA. 363+20.00 3' RT TO STA. 364+71.18 3' RT	150.00		150.00		
STA. 00+00.00 3' RT TO STA. 00+28.82 3' RT	25.00		25.00		
STA. 00+28.82 3' RT TO STA. 00+53.52 0' RT	24.70		25.00		
STA. 00+53.52 0' RT TO STA. 01+28.52 9' LT	75.00		75.00		1.00
SN 068-2509					
STAGE 1					
STA. 41+10.00 4.91' RT TO STA. 42+00.00 2.5' LT	87.50	87.50		1.00	
STA. 42+00.00 2.5' LT TO STA. 44+50.00 2.5' LT	250.00	250.00			
STA. 44+50.00 2.5' LT TO STA. 45+40.00 5.08' RT	87.50	87.50		1.00	
STAGE 2					
STA. 40+50.00 4.57' LT TO STA. 41+10.00 0.46' RT	62.50	62.50			1.00
STA. 41+10.00 0.46' RT TO STA. 42+00.00 8' RT	87.50		87.50		
STA. 42+00.00 8' RT TO STA. 44+50.00 8' RT	250.00		250.00		
STA. 44+50.00 8' RT TO STA. 45+00.00 9' RT	50.00		50.00		1.00
SN 068-2508					
STAGE 1					
STA. 140+60.00 4' RT TO STA. 141+50.00 2.88' LT	87.50	87.50		1.00	
STA. 141+50.00 2.88' LT TO STA. 144+50.00 2.88' LT	300.00	300.00			
STA. 144+50.00 2.88' LT TO STA. 145+40.00 4' RT	87.50	87.50		1.00	
STAGE 2					
STA. 140+00.00 4.5' LT TO STA. 140+60.00 0.5' RT	62.50	62.50			1.00
STA. 140+60.00 0.5' RT TO STA. 141+50.00 6.88' RT	87.50		87.50		
STA. 141+50.00 6.88' RT TO STA. 144+50.00 6.88' RT	300.00		300.00		
STA. 144+50.00 6.88' RT TO STA. 145+40.00 0.5' RT	87.50		87.50		
STA. 145+40.00 0.5' RT TO STA. 146+00.00 4.5' LT	62.50	62.50			1.00
TOTAL :		1,450.00	1,213.50	6.00	6.00

MODEL Path: \\C:\Users\mescat\OneDrive\Documents\Drawings\MicroStation\1121718821\CADData SN 011-2513\1121718821\CADData\0672984-ent-Schedule.dgn
 FILE NAME: \\C:\Users\mescat\OneDrive\Documents\Drawings\MicroStation\1121718821\CADData SN 011-2513\1121718821\CADData\0672984-ent-Schedule.dgn

USER NAME = mescat	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 4/28/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 11 OF 12 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	20
CONTRACT NO. 72984				

TEMPORARY PAVEMENT MARKING

STATION TO STATION	LENGTH FOOT	70300231	70300281
		LINE 5" EDGE LINE (WHITE) SOLID FOOT	LINE 24" STOP BAR (WHITE) SOLID FOOT
SN 011-2513			
STAGE 1			
STA. 360+86.00 TO STA. 364+71.18 LT	385.18	386.00	
STA. 360+86.00 TO STA. 364+71.18 RT	385.18	386.00	
STA. 00+00.00 TO STA. 02+76.00 LT	276.00	276.00	
STA. 00+00.00 TO STA. 02+76.00 RT	276.00	276.00	
STA. 360+86.00			11.00
STA. 02+76.00			11.00
STAGE 2			
STA. 360+86.00 TO STA. 364+71.18 LT	385.18	386.00	
STA. 360+86.00 TO STA. 364+71.18 RT	385.18	386.00	
STA. 00+00.00 TO STA. 02+76.00 LT	276.00	276.00	
STA. 00+00.00 TO STA. 02+76.00 RT	276.00	276.00	
SN 068-2509			
STAGE 1			
STA. 38+29.51 TO STA. 47+93.91 LT	964.40	965.00	
STA. 38+29.51 TO STA. 47+93.91 RT	964.40	965.00	
STA. 39+30.00			14.00
STA. 47+80.00			11.00
STA. 45+50.00			10.00
STAGE 2			
STA. 38+29.51 TO STA. 47+93.91 LT	964.40	965.00	
STA. 38+29.51 TO STA. 47+93.91 RT	964.40	965.00	
STA. 38+82.00			11.00
STA. 47+50.00			11.00
SN 068-2508			
STAGE 1			
STA. 138+00.00 TO STA. 147+87.50 LT	987.50	988.00	
STA. 138+00.00 TO STA. 147+87.50 RT	987.50	988.00	
STAGE 2			
STA. 138+00.00 TO STA. 147+87.50 LT	987.50	988.00	
STA. 138+00.00 TO STA. 147+87.50 RT	987.50	988.00	
STA. 138+00.00			11.00
STA. 148+00.00			11.00
TOTAL :		10,460.00	101.00

MODEL Path: \\C:\CHEL\EDData\Drawings\Microstation\112\1121882\1CADData SN 011-2513\1CAD\Sheet\0672984-ent-Schedule.dgn
 FILE NAME: \\C:\CHEL\EDData\Drawings\Microstation\112\1121882\1CAD\Sheet\0672984-ent-Schedule.dgn

USER NAME = mesca1	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 4/28/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

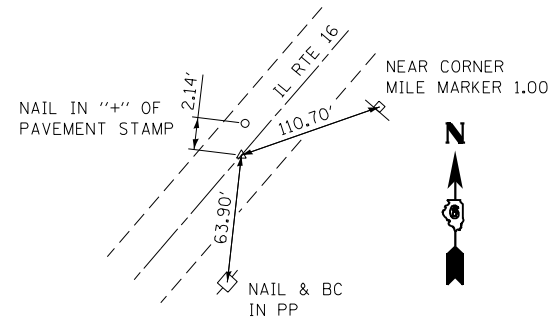
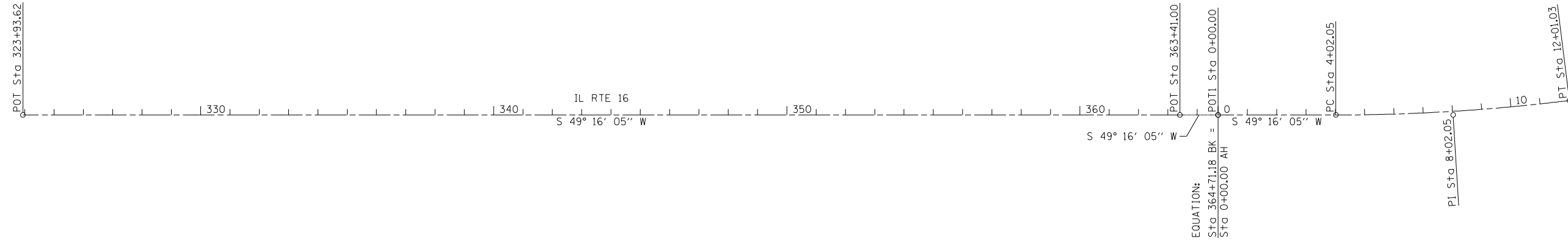
SCHEDULE OF QUANTITIES

SCALE: NONE SHEET 12 OF 12 SHEETS STA. N/A TO STA. N/A

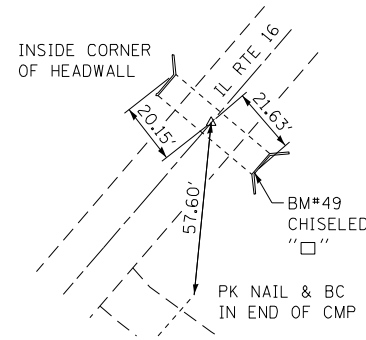
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	21
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

ALIGNMENT COORDINATES - IL 16			
	STATION	N	E
POT	323+93.62	981689.8920	2570303.7160
POT	363+41.00	979114.1380	2567312.5072
EQN	364+71.18 = 0+00.00	979029.1957	2567213.8642
PC	4+02.05	978766.8507	2566909.2043
PI	8+02.05	978505.8419	2566606.0964
PT	12+01.03	978209.3886	2566337.5532

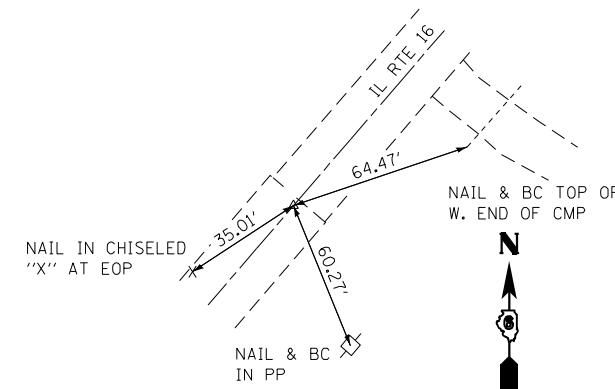
EXIST. CURVE 234
 PI STA. = 8+02.05
 Δ = 7° 05' 46" (LT)
 D = 0° 53' 17"
 R = 6,451.21'
 T = 400.00'
 L = 798.98'
 E = 12.39'
 e = ----
 T.R. = ----
 S.E. RUN = ----
 P.C. STA. = 4+02.05
 P.T. STA. = 12+01.03



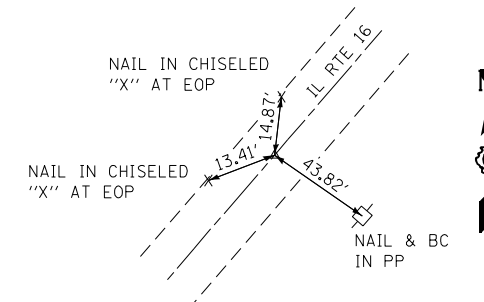
P.O.T. STA. 323 + 93.62
 PK NAIL & BC
 W/ CHISELED "X"



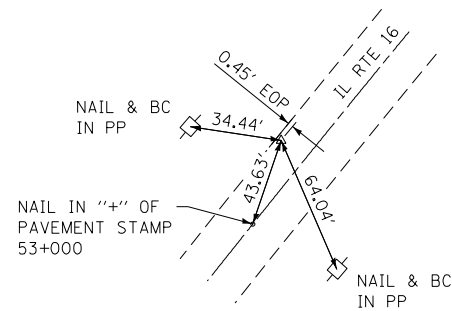
P.O.T. STA. 363 + 41.00
 PK NAIL & BC
 W/ CHISELED "X"



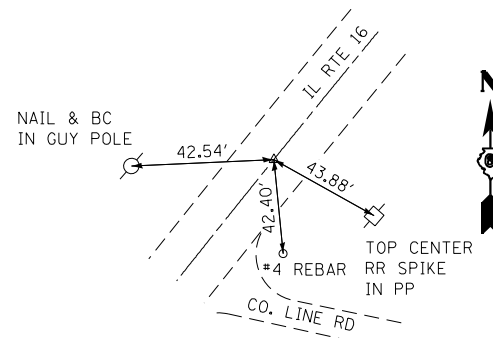
**STA. EQN. POT 364 + 71.18 BK =
 POT 0 + 00.00 AH**
 PK NAIL & BC
 W/ CHISELED "X"



P.C. STA. 4 + 02.05
 PK NAIL & BC
 W/ CHISELED "X"



P.I. STA. 8 + 02.05
 PK NAIL & BC
 W/ CHISELED "X"



P.T. STA. 12 + 01.03
 PK NAIL & BC
 W/ CHISELED "X"

BENCHMARK #46
 ELEVATION 704.068

CHISELED "+" ON WEST END OF NORTH HEADWALL TO BOX CULVERT STA. 307+70.90, 19.8' RT.

BENCHMARK #49
 ELEVATION 683.826

CHISELED "□" ON WEST END OF SOUTH HEADWALL STA. 363+44.20, 21.6' LT.

MODEL: D:\p\h\...
 FILE NAME: W\CHHEL\ED\DATA\DRAWING\MICROSTATION\112\171882\1\CAD\DATA\SN 011-7039 (011-2513)\CAD\sheet\0572984-sht-01-IL-16-001.dwg
 FEHR GRAHAM PROJECT NUMBER: 10005-2 (15-1027F)



USER NAME = mescaat
 DESIGNED -
 DRAWN - CFC
 CHECKED - MCB
 DATE -
 PLOT SCALE = 400,000,000' / in.
 PLOT DATE = 5/3/2023

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

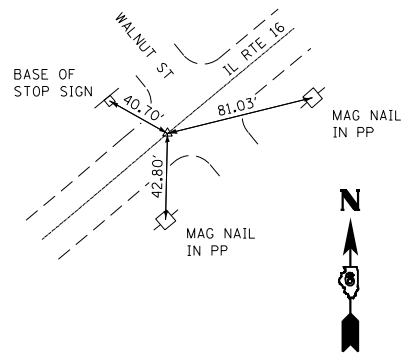
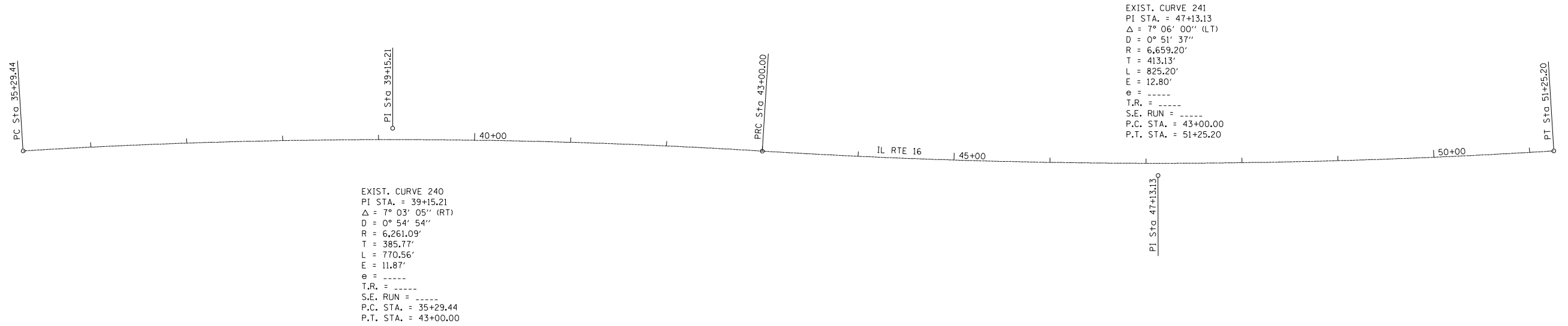
ALIGNMENT, TIES AND BENCHMARKS
 IL 16 SN 011-2513

SCALE: SHEET OF SHEETS STA. TO STA.

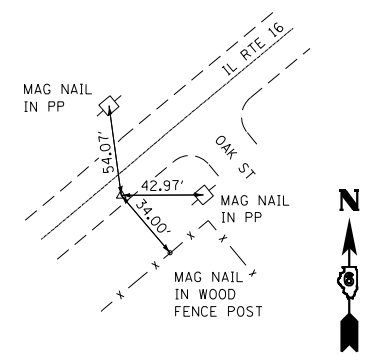
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3)	-	142	22
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

© MONTGOMERY & CHRISTIAN

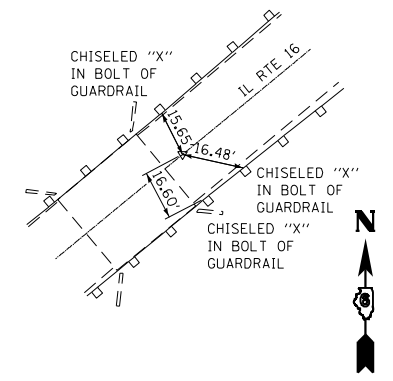
ALIGNMENT COORDINATES - IL 16			
	STATION	N	E
PC	35+29.44	976665.4067	2564619.5775
PI	39+15.21	976413.9193	2564327.0523
PRC	43+00.00	976200.2448	2564005.8667
PI	47+13.13	975971.4150	2563661.9005
PT	51+25.20	975701.8253	2563348.8559



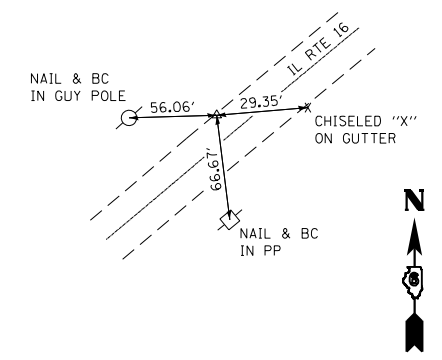
P.C. STA. 35 + 29.44
 MAG NAIL IN PAVEMENT



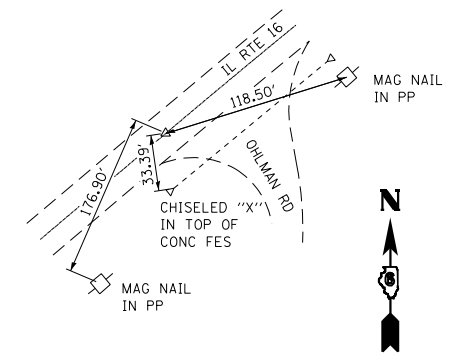
P.I. STA. 39 + 15.21
 MAG NAIL



P.R.C. STA. 43 + 00.00
 MAG NAIL



P.I. STA. 47 + 13.13
 MAG NAIL



P.T. STA. 51 + 25.20
 MAG NAIL

BENCHMARK 1B
 ELEVATION 680.23

60D NAIL IN PP ON N. SIDE IL-16 EAST OF SN 068-0017 JUST S. OF BULIDING STA. 40+54.32, 29.98' RT.

BENCHMARK CB-2
 ELEVATION 679.01

CHISELED "□" ON NORTHWEST WINGWALL SN 068-0017 STA. 43+38.90, 16.39' RT.

BENCHMARK 1A
 ELEVATION 681.835

60D NAIL IN GUY POLE ON N. SIDE IL-16 JUST W. OF SN 068-0017 (2ND GUY POLE FROM BRIDGE) N. SIDE OF GUY POLE STA. 47+66.43, 28.75' RT.

MODEL Path: \\FEHR\GRAHAM\Drawings\Microstation\112\117\8882\1\CAD\Drawings\112\117\8882\1\ATB-002.dwg
 FILE NAME: \\FEHR\GRAHAM\Drawings\Microstation\112\117\8882\1\CAD\Drawings\112\117\8882\1\ATB-002.dwg



USER NAME = mescalel	DESIGNED -	REVISED -
PLOT SCALE = 1/20,000,000" / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/3/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

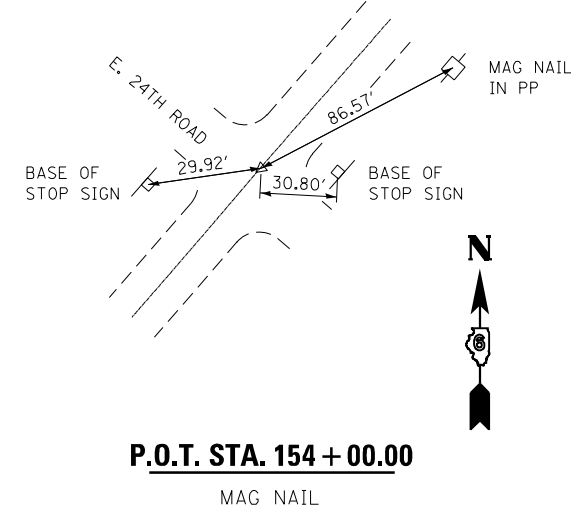
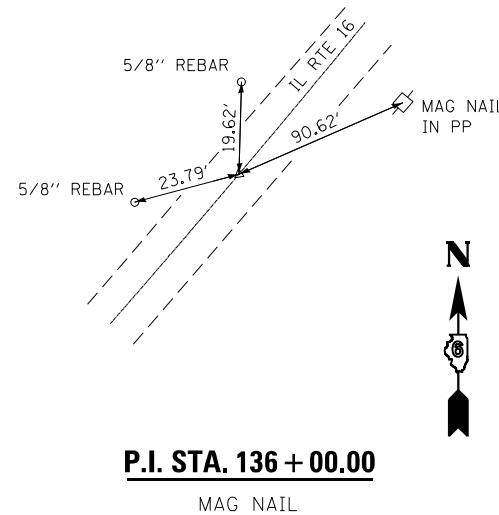
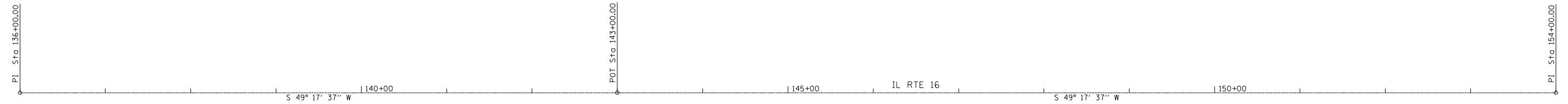
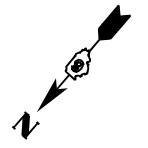
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS
 IL 16 SN 068-0509

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
--------	-------	----	--------	------	----	------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3)		142	23
CONTRACT NO. 72984				

ALIGNMENT COORDINATES - IL 16			
	STATION	N	E
POT	136+00.00	970177.7470	2556938.1000
POT	143+00.00	969721.2190	2556407.4568
POT	154+00.00	969003.8179	2555573.5888



BENCHMARK CB-101
ELEVATION 670.37

RR SPIKE IN N. SIDE TEL POLE
ON S. SIDE IL 16 6TH TEL POLE
E. OF SN 068-0016
STA. 130+45.6, 40.6' LT.

BENCHMARK CB-1
ELEVATION 668.47

CHISELED "□" ON TOP NORTHWEST
WINGWALL SN 068-0016
STA. 143+12.61, 16.5' RT

BENCHMARK 1C
ELEVATION 669.076

CHISELED "□" ON S.E. CORNER OF
BRIDGE CURB SN 068-0016 ON
S. SIDE OF IL-16
STA. 142+87, 15.5' LT.

MODEL Path: \\F:\Projects\2023\11-27-23\11-27-23\CAD\Drawings\Drawings\Microstation\11-27-23\11-27-23\CAD\Drawings\11-27-23\11-27-23.dwg

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = mscate1	DESIGNED -	REVISED -
DRAWN - CFC	CHECKED - MCB	REVISED -
PLOT SCALE = 120,000000 " / in.	DATE -	REVISED -
PLOT DATE = 5/3/2023		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

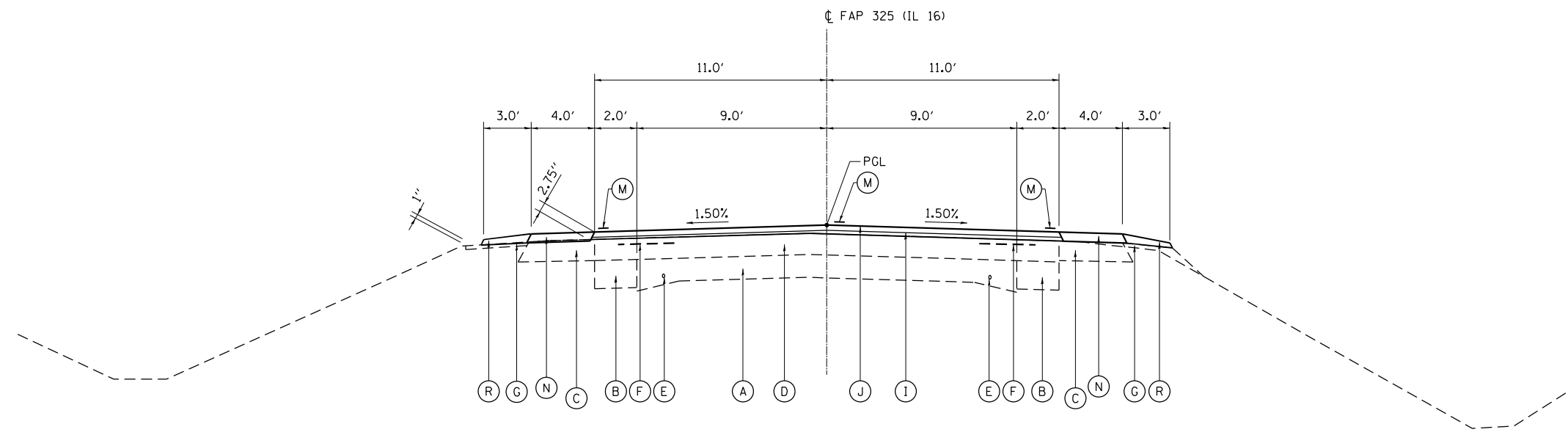
**ALIGNMENT, TIES AND BENCHMARKS
IL 16 SN 068-0508**

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3)	-	142	24
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

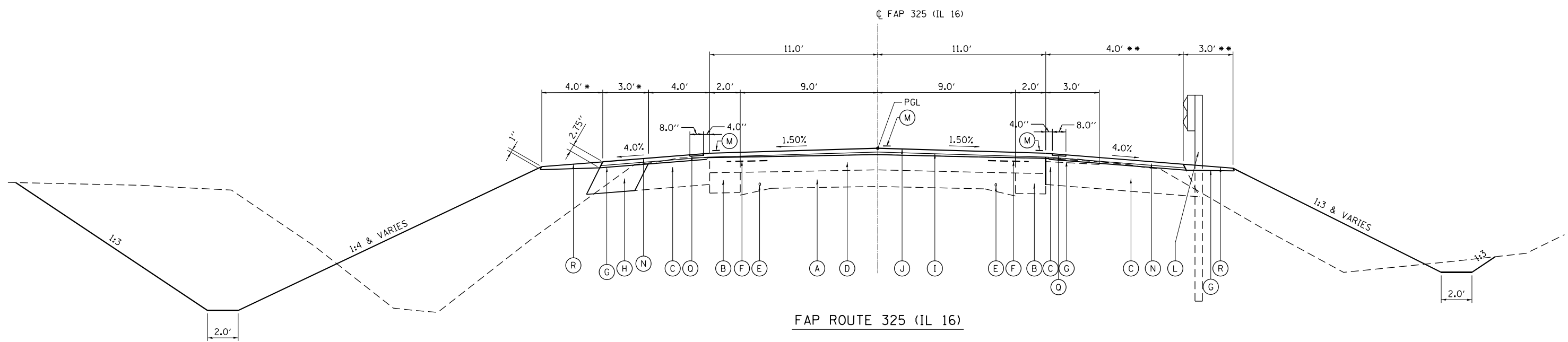
LEGEND

- (A) EXIST. 9-6-9 PCC PAVEMENT
- (B) EXIST. HMA WIDENING, 9"
- (C) EXIST. HMA SHOULDERS 8" & VAR.
- (D) EXIST. HMA SURFACE, 6"
- (E) EXIST. SMOOTH BAR
- (F) EXIST. STRIP REF. CRACK CONTROL TREATMENT
- (G) EXIST. AGGREGATE WEDGE SHOULDERS, TYPE B
- (H) PROP. HMA BASE COURSE, 8"
- (I) PROP. HMA BINDER COURSE IL-9.5FG, N50, 1 1/4" AVG.
- (J) PROP. HMA SURFACE COURSE, MIX "C", N50, 1 1/2"
- (K) PROP. AGGREGATE SHOULDERS, TYPE B
- (L) PROP. GUARDRAIL (SEE SCHEDULE)
- (M) PROP. PAVEMENT MARKING, LINE 5"
- (N) PROP. HMA SHOULDERS, 2-3/4"
- (O) PROP. GRANULAR CULVERT BACKFILL
- (P) PROP. BASE COURSE (OPTION) 8"
- (Q) PROP. SHOULDER RUMBLE STRIPS, 8 INCH
- (R) PROP. AGGREGATE WEDGE SHOULDERS, TYPE B



FAP ROUTE 325 (IL 16)

STA. 359+00.00 TO STA. 360+53.00



FAP ROUTE 325 (IL 16)

LT STA. 360+53.00 TO STA. 361+00.00 - *WIDTH OF HMA BASE COURSE VARIES FROM 2.5' TO 3.0'
 WIDTH OF AGGREGATE WEDGE SHLDR VARIES FROM 3.0' TO 4.0'

RT STA. 360+53.00 TO STA. 361+00.00 - ** WIDTH OF AGGREGATE WEDGE SHLDR VAREIS FROM 3.0' TO 2.0'

LT & RT STA. 361+00.00 TO STA. 363+50.00
 LT & RT STA. 364+54.00 TO STA. 364+71.18 BK

NOTE : STA. EQU. 364+71.18 = 0+00.00 AH

MODEL Path: \\fehr\gms\projects\110005-2\110005-2.dwg
 FILE NAME: \\fehr\gms\projects\110005-2\110005-2.dwg
 MODEL Path: \\fehr\gms\projects\110005-2\110005-2.dwg
 FILE NAME: \\fehr\gms\projects\110005-2\110005-2.dwg



USER NAME = mesca1	DESIGNED -	REVISED -
PLOT SCALE = 2000.0000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/11/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

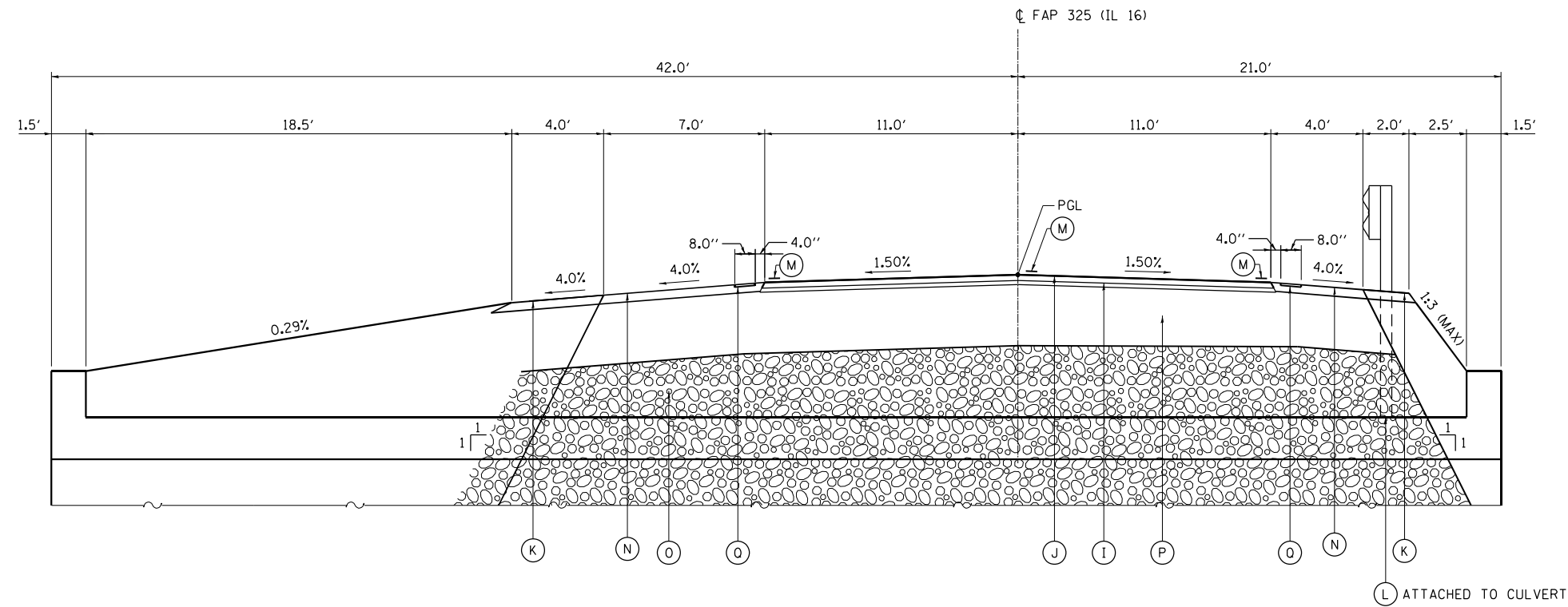
**TYPICAL SECTIONS
IL 16 SN 011-2513**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	25
CONTRACT NO. 72984				

LEGEND

- (A) EXIST. 9-6-9 PCC PAVEMENT
- (B) EXIST. HMA WIDENING, 9"
- (C) EXIST. HMA SHOULDERS 8" & VAR.
- (D) EXIST. HMA SURFACE, 6"
- (E) EXIST. SMOOTH BAR
- (F) EXIST. STRIP REF. CRACK CONTROL TREATMENT
- (G) EXIST. AGGREGATE WEDGE SHOULDERS, TYPE B
- (H) PROP. HMA BASE COURSE, 8"
- (I) PROP. HMA BINDER COURSE IL-9.5FG, N50, 1 1/4" AVG.
- (J) PROP. HMA SURFACE COURSE, MIX "C", N50, 1 1/2"
- (K) PROP. AGGREGATE SHOULDERS, TYPE B
- (L) PROP. GUARDRAIL (SEE SCHEDULE)
- (M) PROP. PAVEMENT MARKING, LINE 5"
- (N) PROP. HMA SHOULDERS, 2-3/4"
- (O) PROP. GRANULAR CULVERT BACKFILL
- (P) PROP. BASE COURSE (OPTION) 8"
- (Q) PROP. SHOULDER RUMBLE STRIPS, 8 INCH
- (R) PROP. AGGREGATE WEDGE SHOULDERS, TYPE B



FAP ROUTE 325 (IL 16)

STA 363+50.00 TO STA 364+54.00

MODEL Path: \\C:\Users\mescate\OneDrive\Documents\Drawings\MicroStation\117-17-1882\1\CADData_S\011-2513\1\CAD\Sheet\0672984-2\117-1882-1.dgn
 FILE NAME: \\C:\Users\mescate\OneDrive\Documents\Drawings\MicroStation\117-17-1882\1\CADData_S\011-2513\1\CAD\Sheet\0672984-2\117-1882-1.dgn



USER NAME = mescate	DESIGNED -	REVISED -
PLOT SCALE = 2000.0000 ' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

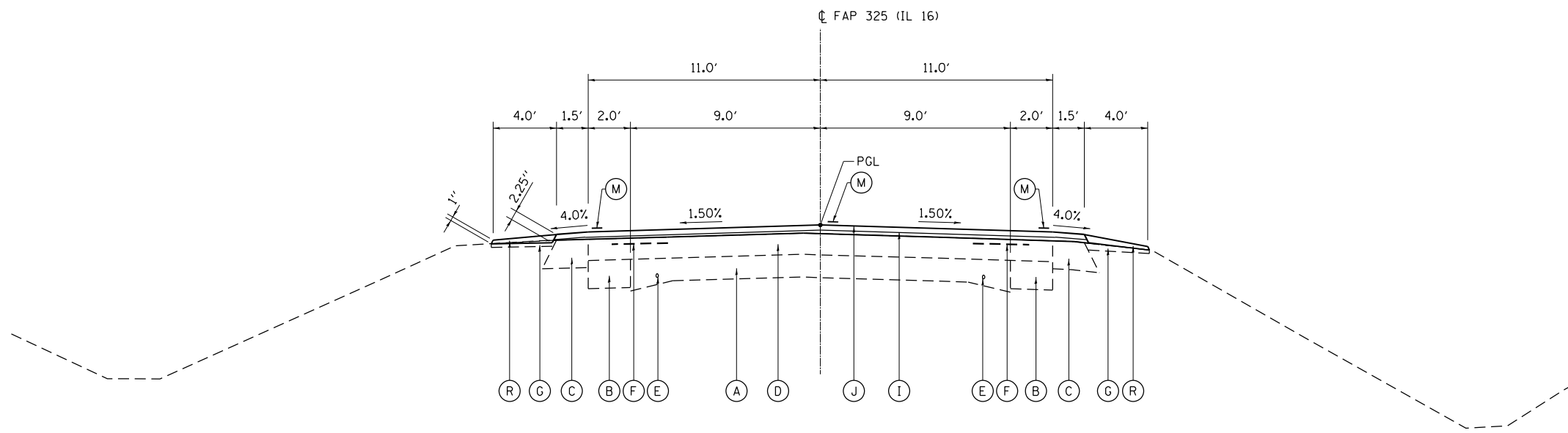
**TYPICAL SECTIONS
IL 16 SN 011-2513**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	26
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	

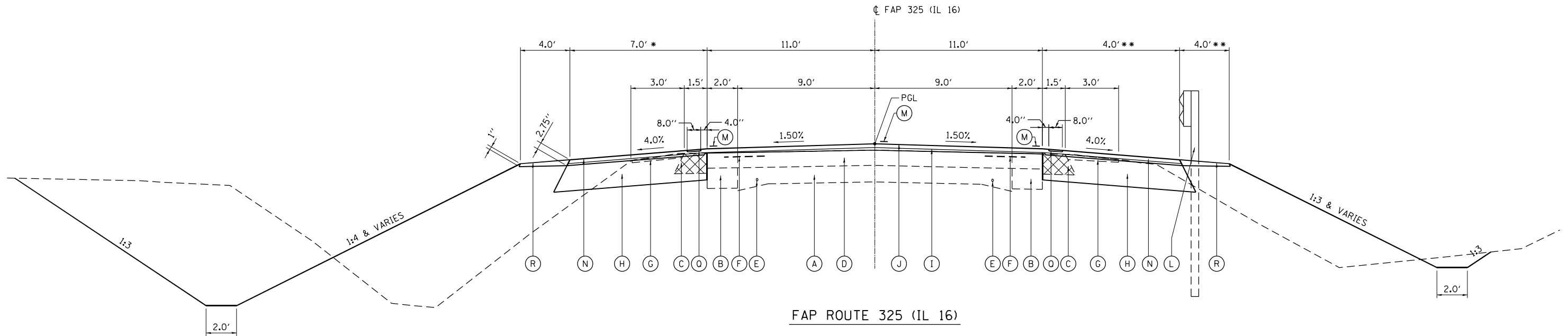
LEGEND

- (A) EXIST. 9-6-9 PCC PAVEMENT
- (B) EXIST. HMA WIDENING, 9"
- (C) EXIST. HMA SHOULDERS 8" & VAR.
- (D) EXIST. HMA SURFACE, 6"
- (E) EXIST. SMOOTH BAR
- (F) EXIST. STRIP REF. CRACK CONTROL TREATMENT
- (G) EXIST. AGGREGATE WEDGE SHOULDERS, TYPE B
- (H) PROP. HMA BASE COURSE, 8"
- (I) PROP. HMA BINDER COURSE IL-9.5FG, N50, 1 1/4" AVG.
- (J) PROP. HMA SURFACE COURSE, MIX "C", N50, 1 1/2"
- (K) PROP. AGGREGATE SHOULDERS, TYPE B
- (L) PROP. GUARDRAIL (SEE SCHEDULE)
- (M) PROP. PAVEMENT MARKING, LINE 5"
- (N) PROP. HMA SHOULDERS, 2-3/4"
- (O) PROP. GRANULAR CULVERT BACKFILL
- (P) PROP. BASE COURSE (OPTION) 8"
- (Q) PROP. SHOULDER RUMBLE STRIPS, 8 INCH
- (R) PROP. AGGREGATE WEDGE SHOULDERS, TYPE B



FAP ROUTE 325 (IL 16)

STA. 2+80.00 TO STA. 4+00.00



FAP ROUTE 325 (IL 16)

LT STA. 0+00.00 TO STA. 2+10.00
 LT STA. 2+10.00 TO STA. 2+80.00

* WIDTH OF HMA BASE COURSE /
 WIDENING VARIES FROM 7.0' TO 2.5'

RT STA. 0+00.00 TO STA. 2+56.00
 RT STA. 2+56.00 TO STA. 2+80.00

** WIDTH OF HMA BASE COURSE VARIES FROM 4.0' TO 2.5'
 WIDTH OF AGGREGATE SHOULDERS VARIES FROM 2.0' TO 4.0'

MODEL: D:\p\h\...
 FILE NAME: W:\C\H\EL\ED\DATA\DRAWING\MICROSTATION\112717882\1\CAD\DATA\SN 011-2513\1\CAD\SHR\16572984-SHT-3.DWG



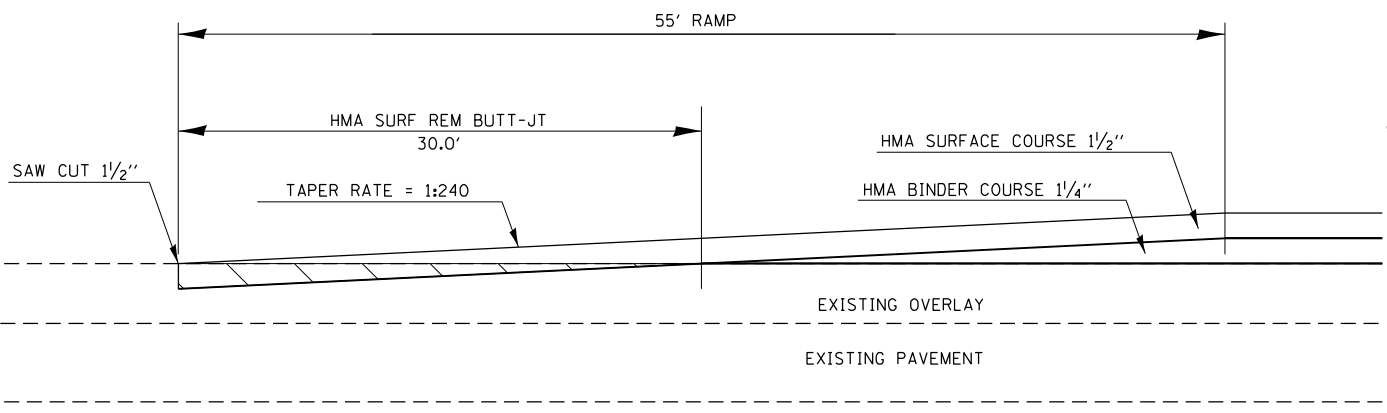
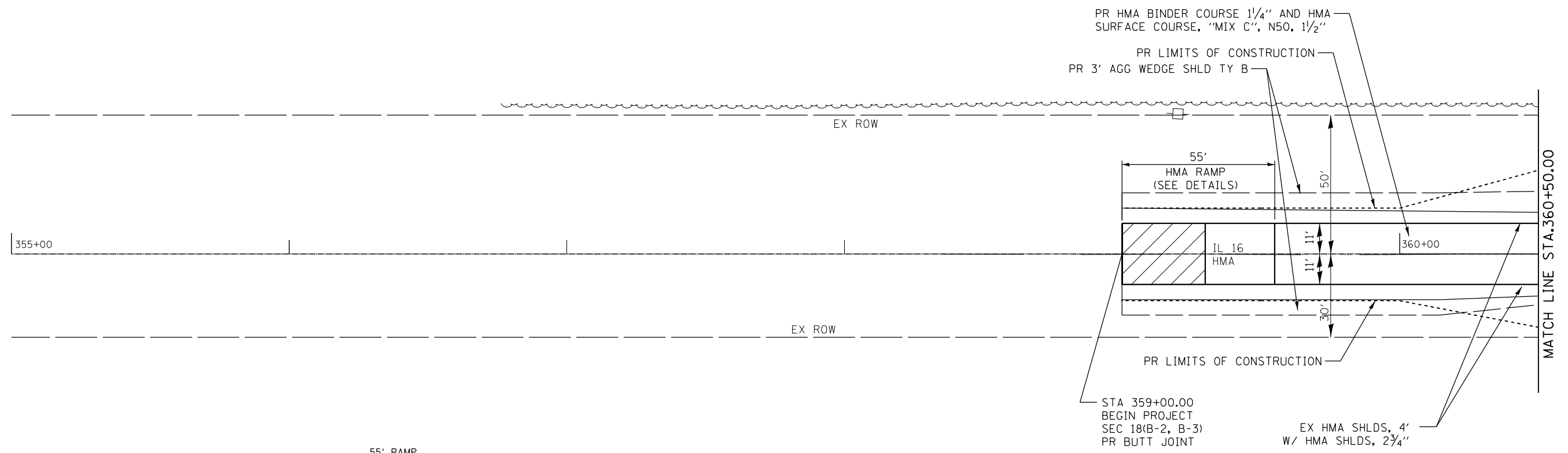
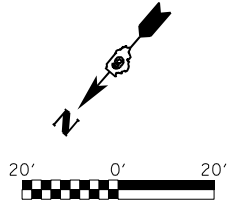
USER NAME = mesca1	DESIGNED -	REVISED -
PLOT SCALE = 2000.0000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/11/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
 IL 16 SN 011-2513

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	27
CONTRACT NO. 72984				



RAMP DETAIL

STA. 359+00.00 TO STA. 359+55.00

- LEGEND**
- PR HMA SURFACE REMOVAL - BUTT JOINT
 - PR PAVED SHOULDER REMOVAL
 - PR PAVEMENT REMOVAL

SW¹/₄ SEC.33
T11N, R1W, 3PM.

MODEL Path: \\C:\Users\mcb\OneDrive\Documents\Projects\11212188B21\CAD\Drawings\11212188B21\CAD\Drawings\11212188B21\11212188B21.dwg
 FILE NAME: \\C:\Users\mcb\OneDrive\Documents\Projects\11212188B21\CAD\Drawings\11212188B21\CAD\Drawings\11212188B21\11212188B21.dwg



USER NAME = mescate	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/3/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

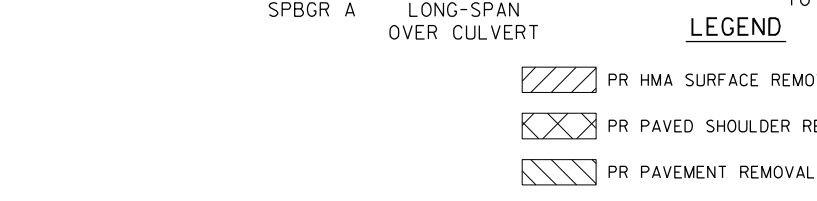
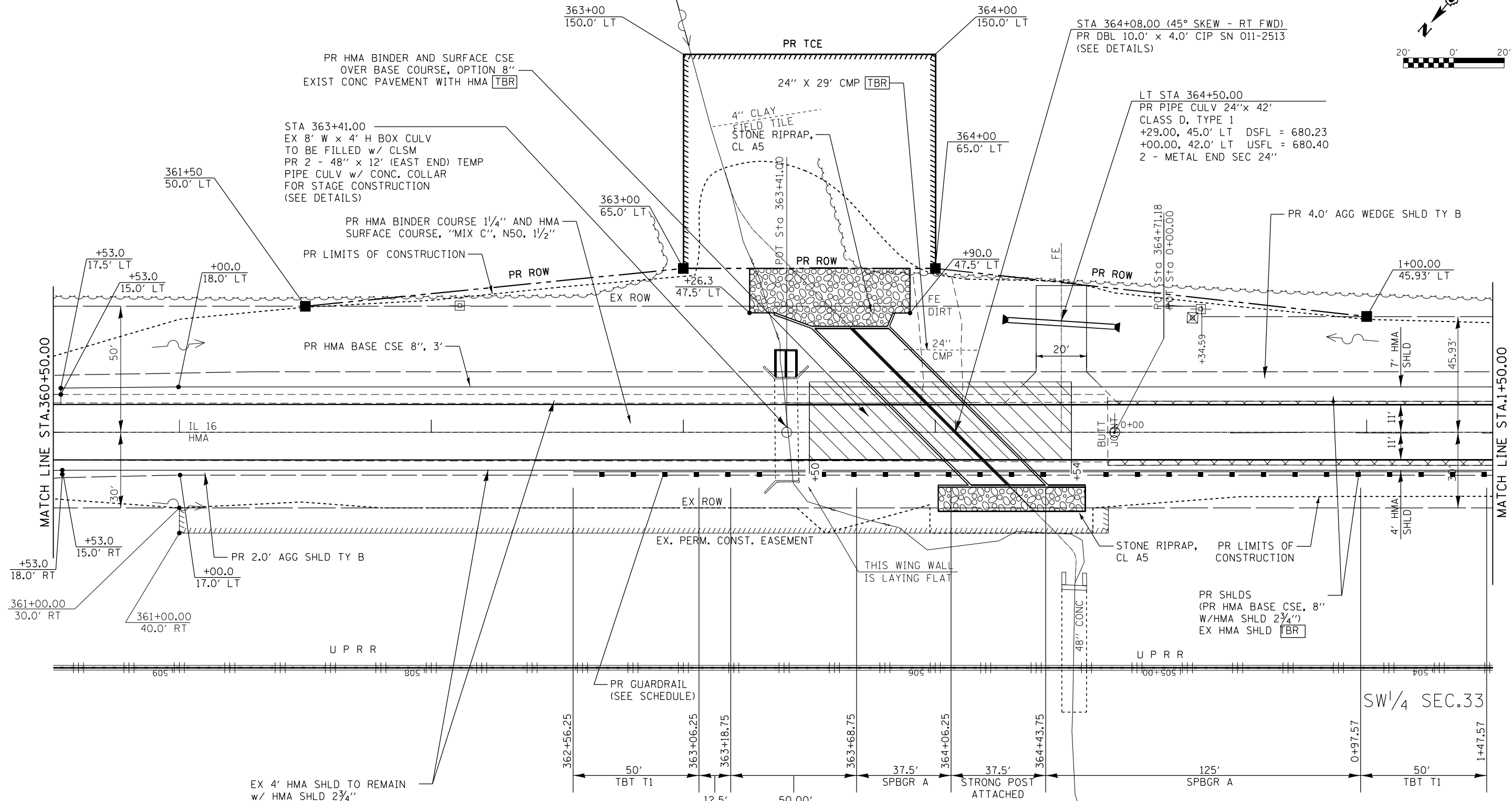
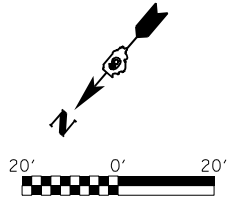
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN	
IL 16 SN 011-2513	
SCALE:	SHEET 1 OF 3 SHEETS STA. 359+00 TO STA. 360+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	-	142	28
CONTRACT NO. 72984				

JOSEPH ANDREW & LUCY ANN GLEESPAN

PARCEL NO. 6196113



MODEL: D:\p\h\...
 FILE NAME: W:\C\CHELE\ED\data\Drawings\Microstation\2112-17188B21\CADD\asb_S11-2023\11-25-23\CADD\asb_S11-2023.dgn
 FEHR GRAHAM PROJECT NUMBER: 10005-2 (15-1027F)

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = mescaat
 DESIGNED -
 DRAWN - CFC
 CHECKED - MCB
 DATE -
 PLOT SCALE = 40,0000' / in.
 PLOT DATE = 5/10/2023

DESIGNED -
 DRAWN - CFC
 CHECKED - MCB
 DATE -

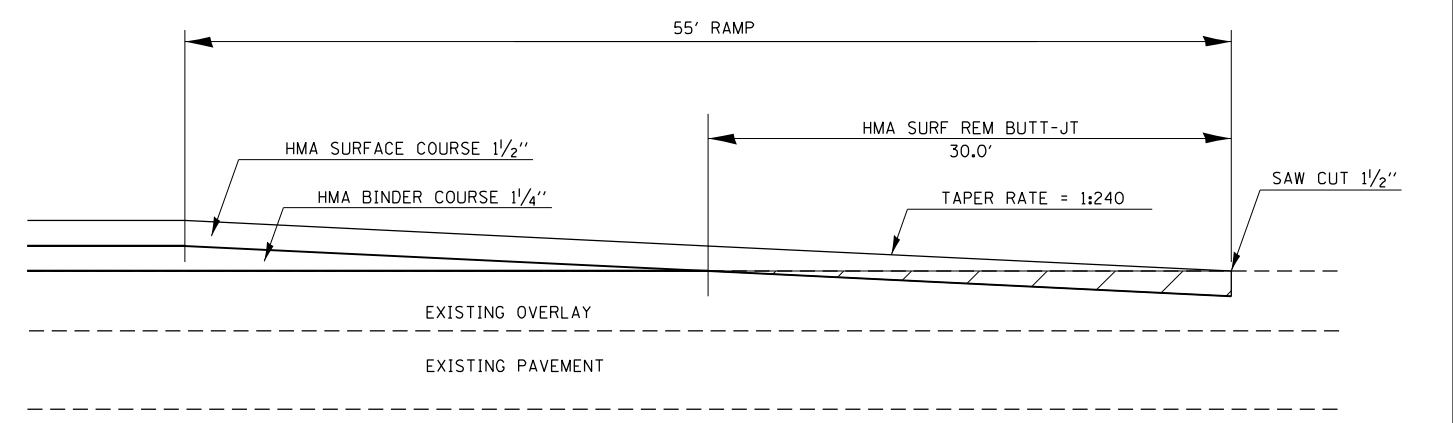
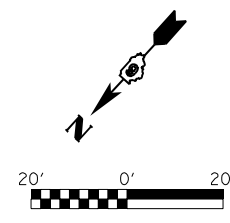
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

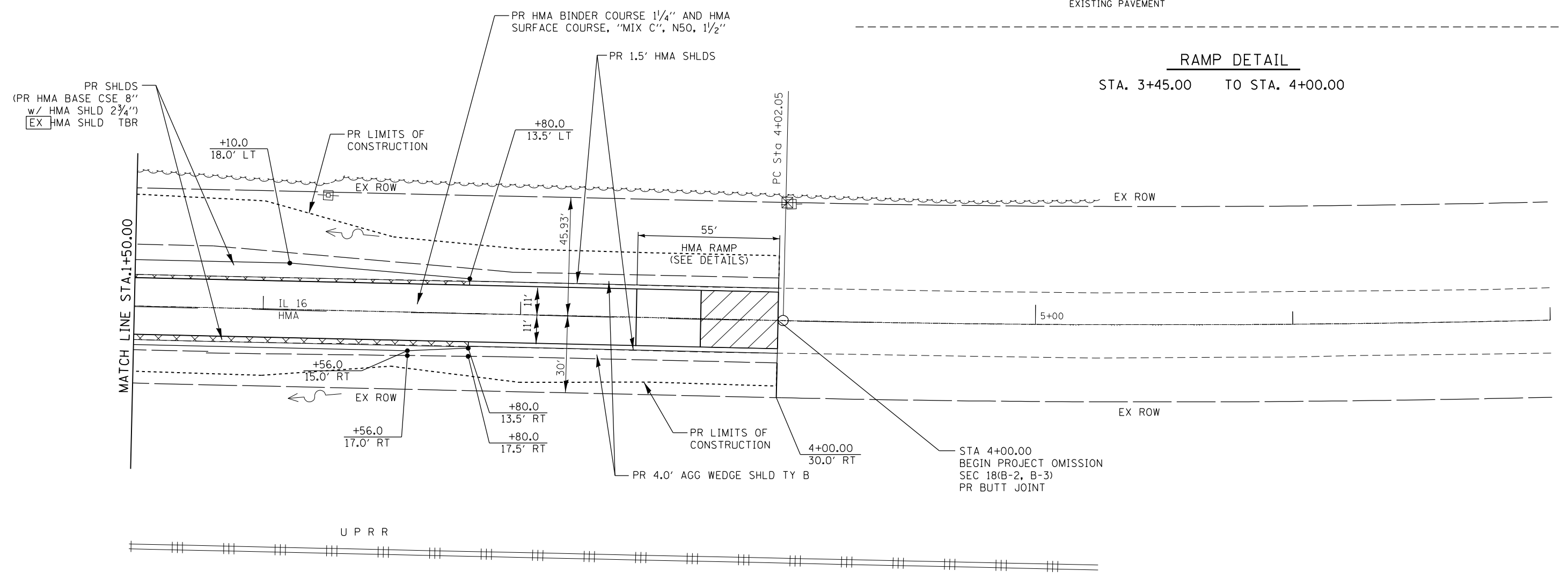
PLAN
IL 16 SN 011-2513
 SCALE: SHEET 2 OF 3 SHEETS STA. 360+50 TO STA. 1+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	29
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

MONTGOMERY & CHRISTIAN



RAMP DETAIL
STA. 3+45.00 TO STA. 4+00.00



LEGEND

- PR HMA SURFACE REMOVAL - BUTT JOINT
- PR PAVED SHOULDER REMOVAL
- PR PAVEMENT REMOVAL

MODEL Path: \\C:\Users\mcb\OneDrive\Documents\Illinois\Projects\72984\Drawings\72984-Sub-1-2513.dwg
 FILE NAME: \\C:\Users\mcb\OneDrive\Documents\Illinois\Projects\72984\Drawings\72984-Sub-1-2513.dwg

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = mescale	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN
IL 16 SN 011-2513

SCALE: SHEET 3 OF 3 SHEETS STA. 1+50 TO STA. 4+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	30
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT			MONTGOMERY & CHRISTIAN	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNMENT CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

MODEL: Default
 FILE NAME: W:\CCH\EL\Drawings\Microstation\1121-1718B-21\CADData_S\11-2019_011-2513\CADsheets\00729292-21-13-01.dgn



FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = mescaiel
PLOT SCALE = 40,0000 * / in.
PLOT DATE = 5/2/2023

DESIGNED -	REVISED -
DRAWN - CFC	REVISED -
CHECKED - MCB	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

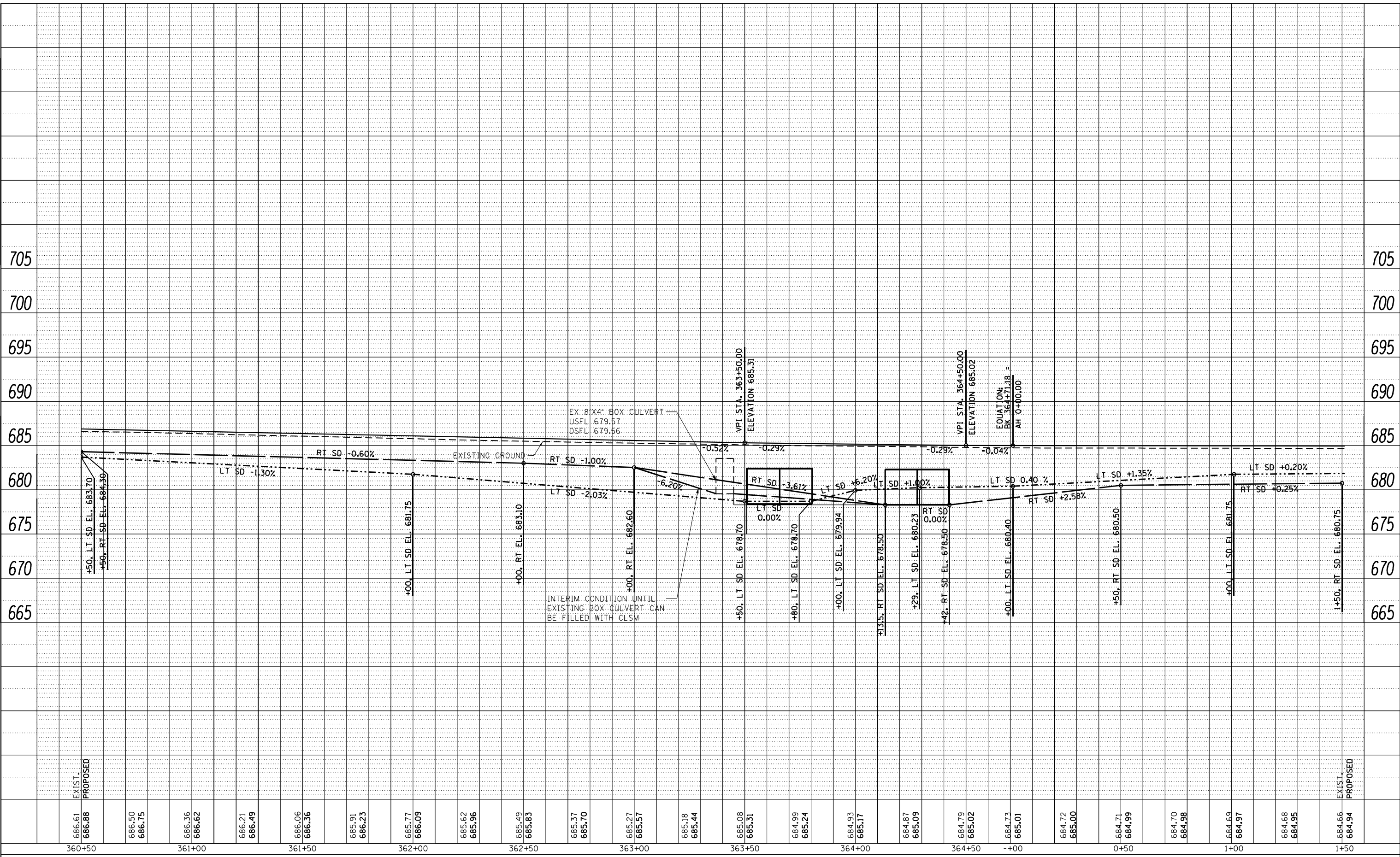
PROFILE	
IL 16 SN 011-2513	
SCALE:	SHEET 1 OF 3 SHEETS STA. 359+00 TO STA. 360+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	31
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NOTE BOOK		
	NO.		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CIPWD		
	NO.		

MODEL: D:\default
 FILE NAME: W:\CCH\EL\Drawings\Microstation\1121-1718B-21\CADD\Date SN 011-2038 (011-2513)\CADD\sheet00729292-21-13-0022.dgn



FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. IB4-003525
 FEHR GRAHAM PROJECT NUMBER: 10005-2 (15-1027F)

USER NAME = mescalet	DESIGNED -	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/2/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

DESIGNED -	REVISED -
DRAWN - CFC	REVISED -
CHECKED - MCB	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

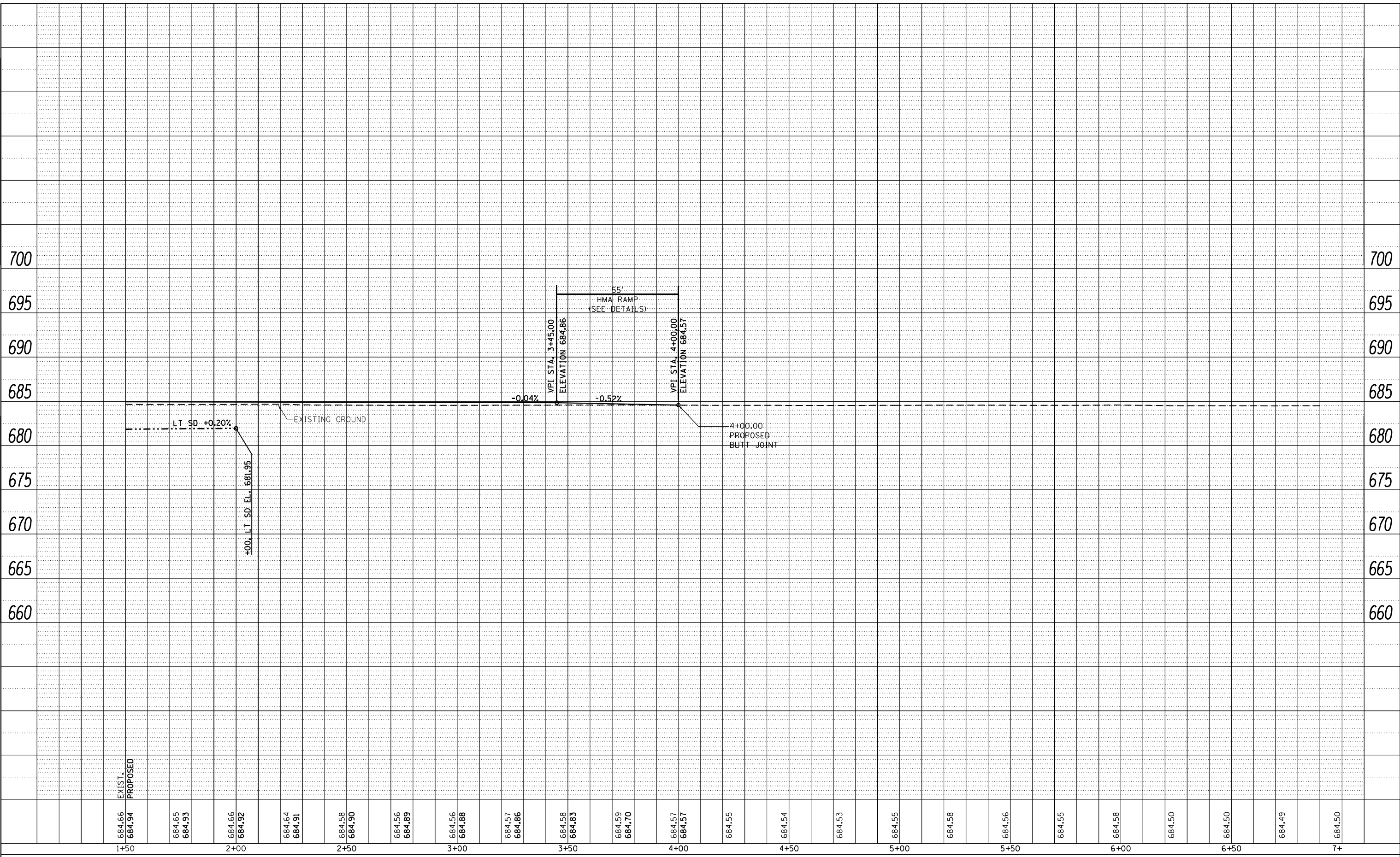
PROFILE			
IL 16 SN 011-2513			
SCALE:	SHEET 2	OF 3 SHEETS	STA. 360+50 TO STA. 1+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	32
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	
* MONTGOMERY & CHRISTIAN				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NOTE BOOK		
	NO.		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	NOTE BOOK		
	NO.		
	STRUCTURE NOTATIONS CIPWD		

MODEL: Default
 FILE NAME: W:\0401\16\16-003\16-003.dwg
 C:\Users\mescatel\OneDrive\Documents\16-003.dwg
 SN 011-2513 | CADD Date: SN 011-2513 | CADD Date: SN 011-2513 | CADD Date: SN 011-2513 | CADD Date: SN 011-2513



684.66 684.94	EXIST. PROPOSED	1+50
684.65 684.93		
684.66 684.92		2+00
684.64 684.91		
684.58 684.90		2+50
684.56 684.89		
684.56 684.88		3+00
684.57 684.86		
684.58 684.83		3+50
684.59 684.70		
684.57 684.57		4+00
684.55		
684.54		4+50
684.53		
684.55		5+00
684.58		
684.56		5+50
684.55		
684.58		6+00
684.50		
684.50		6+50
684.49		
684.50		7+












FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525	USER NAME = mescatel	DESIGNED -	REVISED -
	PLOT SCALE = 40,0000' / in.	DRAWN - CFC	REVISED -
	PLOT DATE = 5/2/2023	CHECKED - MCB	REVISED -
		DATE -	REVISED -

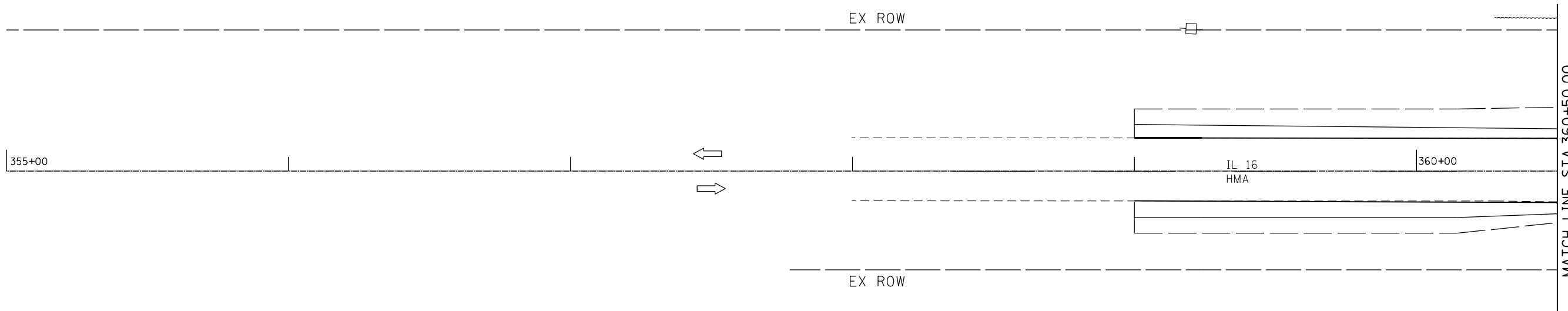
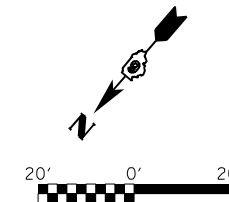
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROFILE			
IL 16 SN 011-2513			
SCALE:	SHEET 3	OF 3	SHEETS
	STA. 1+50	TO STA. 4+00	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	33
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	
* MONTGOMERY & CHRISTIAN				

LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL / GUARDRAIL MARKER



GENERAL NOTES

1. THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321 AND AS DIRECTED BY THE ENGINEER.
2. VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, DETECTOR LOOPS, TEMPORARY PAVEMENT MARKINGS, AND TYPE C BIDIRECTIONAL REFLECTORS SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321.
3. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 BUREAU OF OPERATIONS (PH: (217) 785-5306) AT LEAST SEVEN DAYS PRIOR TO IMPLEMENTING ANY STAGE I TRAFFIC CONTROL AND AT LEAST SEVEN DAYS PRIOR TO IMPLEMENTING STAGE II TRAFFIC CONTROL.
4. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 BUREAU OF OPERATIONS (PH: (217) 785-5306) AT LEAST THREE DAYS PRIOR TO ACTIVATING THE TEMPORARY TRAFFIC SIGNALS.

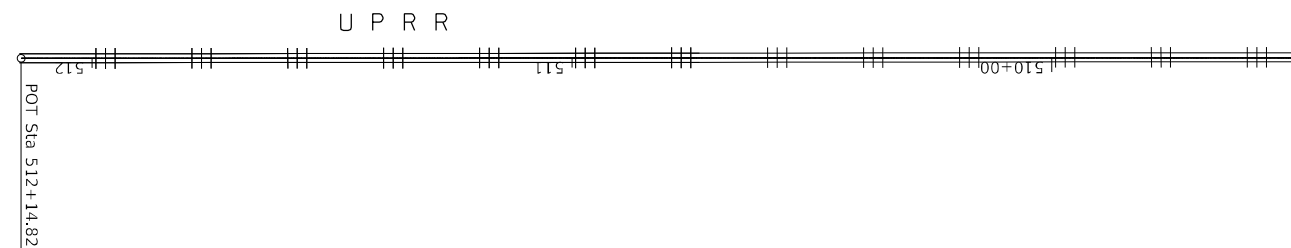
SEQUENCE OF CONSTRUCTION

PRE-STAGE I

1. INSTALL ALL NECESSARY ITEMS IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701326
2. INSTALL TEMPORARY EROSION CONTROL AS SHOWN IN THE PLANS AS NECESSARY DURING ALL STAGES OF CONSTRUCTION.
3. CONSTRUCT EARTHWORK, HMA BASE COURSE 8" AND PIPE EXTENSIONS LEFT AND RIGHT OF THE CENTERLINE.

STAGE I












1. INSTALL STAGE I TRAFFIC CONTROL AND PROTECTION AS DETAILED IN THE PLANS AND ACCORDING TO STANDARD 701321.
2. PLACE TRAFFIC IN STAGE I LANE.
3. INSTALL TEMPORARY SHEET PILING. REMOVE STAGE I PORTION OF THE EXISTING PAVEMENT AND STRUCTURE. CONSTRUCT STAGE I PORTION OF THE PROPOSED BOX CULVERT AND PAVEMENT.
4. INSTALL PROPOSED GUARDRAIL AND TERMINALS ON THE RIGHT SIDE AS SHOWN IN THE PLANS.

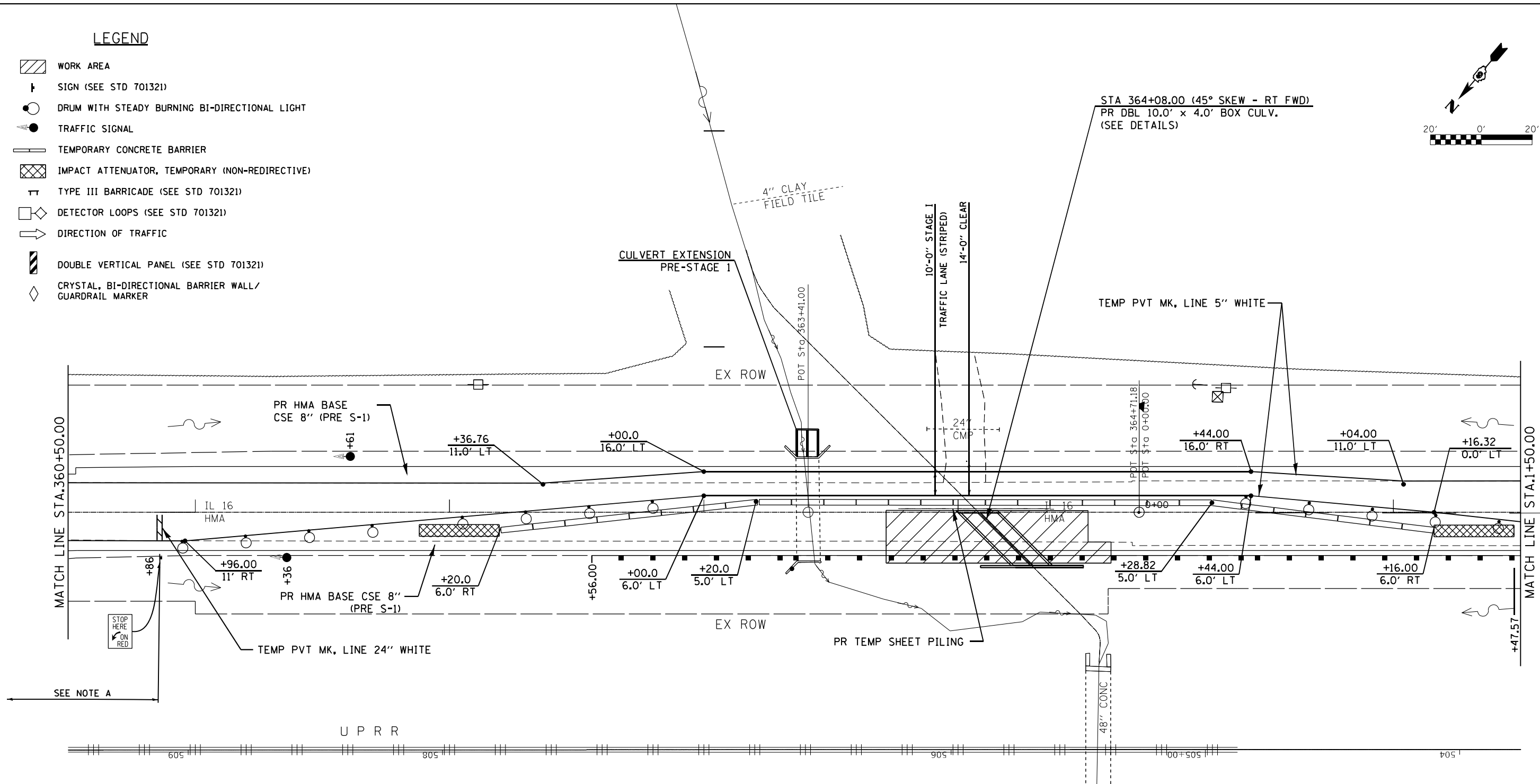
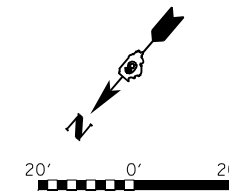


MODEL Path: \\FEHR\Graham\Drawings\Microstation\1121718821\CD\Drawings\011-7039 (011-2513)\CADD\Sheet\0672984-Sub-Stage-1-2513.dgn
 FILE NAME: \\FEHR\Graham\Drawings\Microstation\1121718821\CD\Drawings\011-7039 (011-2513)\CADD\Sheet\0672984-Sub-Stage-1-2513.dgn

	USER NAME = mescaat	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE I TRAFFIC CONTROL IL 16 SN 011-2513	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 40,0000 * / in.	CHECKED - MCB	REVISED -			325	18(B-2, B-3); 16(CR)	*	142	34
ILLINOIS DESIGN FIRM NO. IB4-003525	PLOT DATE = 5/9/2023	DATE -	REVISED -	SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT CONTRACT NO. 72984				

LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER



NOTE A

REMAINDER OF SIGNING ACCORDING TO STANDARD 701321
 TEMPORARY RUMBLE STRIPS WILL BE USED AND PLACED
 ACCORDING TO STANDARD 701321.
 ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING
 TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC
 CONTROL AND PROTECTION STANDARD 701321.

MODEL: D:\p\h\...
 FILE NAME: W:\C\H\EL\ED\data\Drawings\Traffic\Stage1\0672984-ent-Stage1-2512.dgn
 MODEL: D:\p\h\...
 FILE NAME: W:\C\H\EL\ED\data\Drawings\Traffic\Stage1\0672984-ent-Stage1-2512.dgn



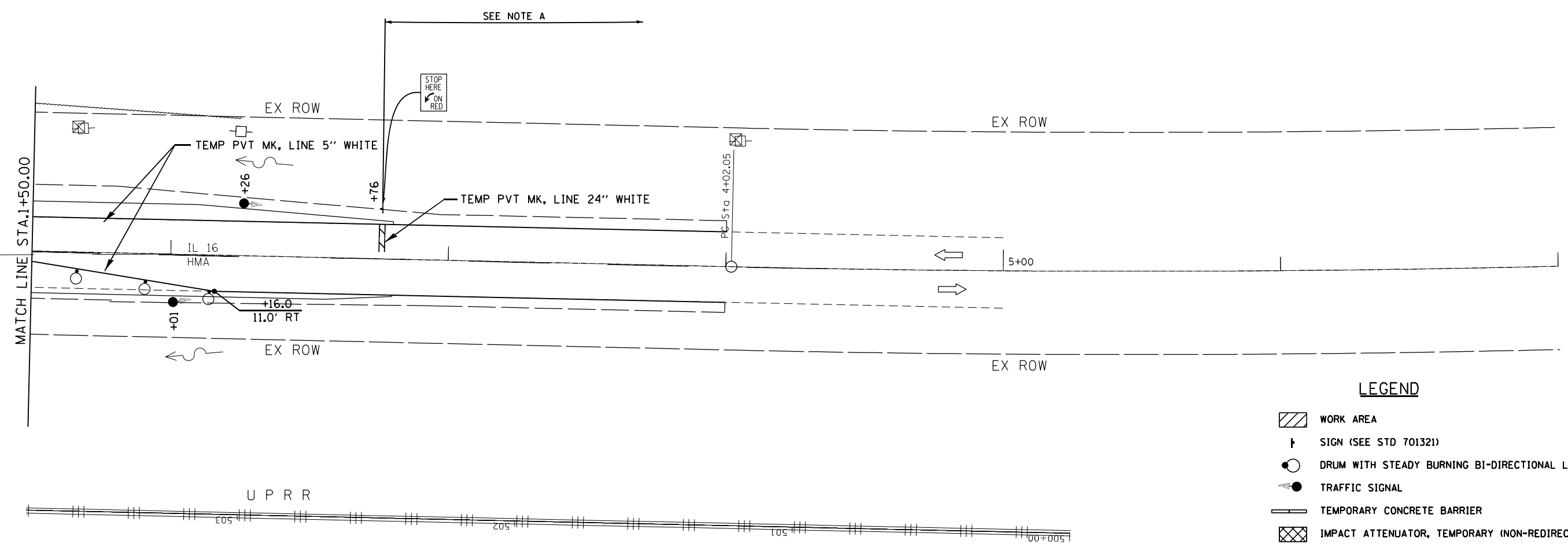
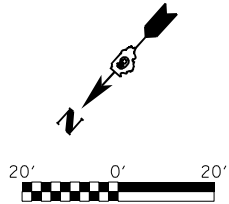
USER NAME = mescaat	DESIGNED -	REVISED -
PLOT SCALE = 40,0000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/10/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**












**STAGE I TRAFFIC CONTROL
 IL 16 SN 011-2513**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	35
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	



LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER

NOTE A

REMAINDER OF SIGNING ACCORDING TO STANDARD 701321
 TEMPORARY RUMBLE STRIPS WILL BE USED AND PLACED
 ACCORDING TO STANDARD 701321.
 ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING
 TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC
 CONTROL AND PROTECTION STANDARD 701321.

MODEL: D:\p\h\...
 FILE NAME: W:\C\CHELE\ED\data\Drawings\Microstation\2112\17188B21\CADD\dsb_SN_011-7039_011-2513\CADsheet\0672984-ent-Stage-4-2513.dgn



USER NAME = mescaat	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/3/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -












**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

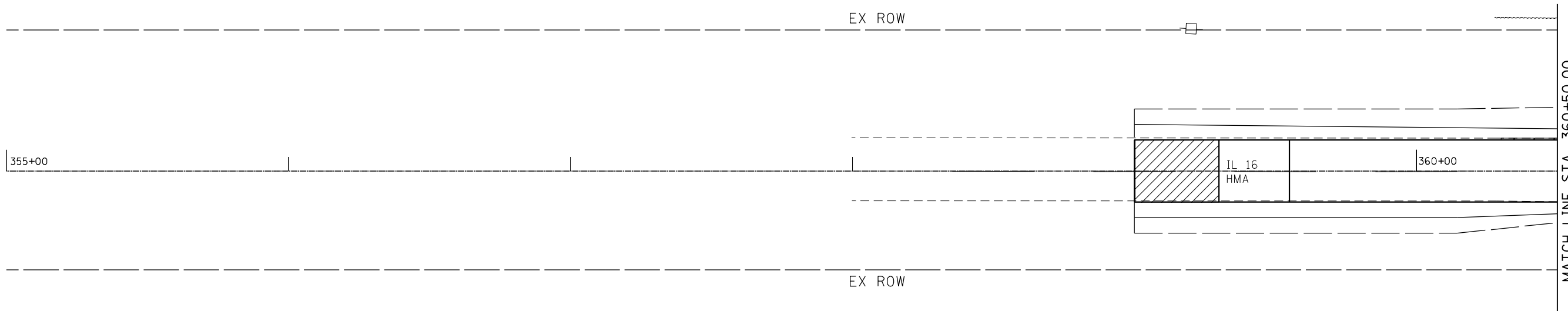
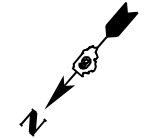
**STAGE I TRAFFIC CONTROL
 IL 16 SN 011-2513**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	36
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	

LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL / GUARDRAIL MARKER



SEQUENCE OF CONSTRUCTION

STAGE II

1. RELOCATE TEMPORARY CONCRETE BARRIER AND OTHER TRAFFIC CONTROL ITEMS IN ACCORDANCE WITH STANDARD 701321 AND STAGE II TRAFFIC CONTROL DETAILS.
2. PLACE TRAFFIC IN STAGE II LANE. REMOVE STAGE II PORTION OF THE PAVEMENT.
3. CONSTRUCT STAGE II PORTION OF THE PROPOSED BOX CULVERT AND PAVEMENT.
4. REMOVE TEMPORARY CULVERT EXTENSIONS AND CONCRETE COLLARS AS SHOWN IN PLANS. FILL EX CULVERT AT STA 363+41.00 WITH CLSM.

STAGE III

1. REMOVE TRAFFIC CONTROL ITEMS ASSOCIATED WITH STANDARD 701321.
2. INSTALL SHORT TERM PAVEMENT MARKINGS AND PLACE TRAFFIC IN PERMANENT LANES.
3. PLACE HMA BINDER, SURFACE COURSE AND SHOULDERS IN ACCORDANCE WITH STANDARD 701201.
4. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH STANDARD 701311.

NOTE A

REMAINDER OF SIGNING ACCORDING TO STANDARD 701321 TEMPORARY RUMBLE STRIPS WILL BE USED AND PLACED ACCORDING TO STANDARD 701321. ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

MODEL: D:\p\h\...
 FILE NAME: \\C:\CHEL\ED\data\Drawings\Microstation\112\117\8882\1\CAD\Draw_SN 011-2513\1\CAD\Sheet\0672984-ent-Stage-II-2513.dgn
 FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525
 FEHR GRAHAM PROJECT NUMBER: 10005-2 (15-1027F)

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525	USER NAME = mesca1	DESIGNED -	REVISED -
	PLOT SCALE = 40,0000 * / in.	DRAWN - CFC	REVISED -
	PLOT DATE = 5/1/2023	CHECKED - MCB	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**












**STAGE II TRAFFIC CONTROL
IL 16 SN 011-2513**

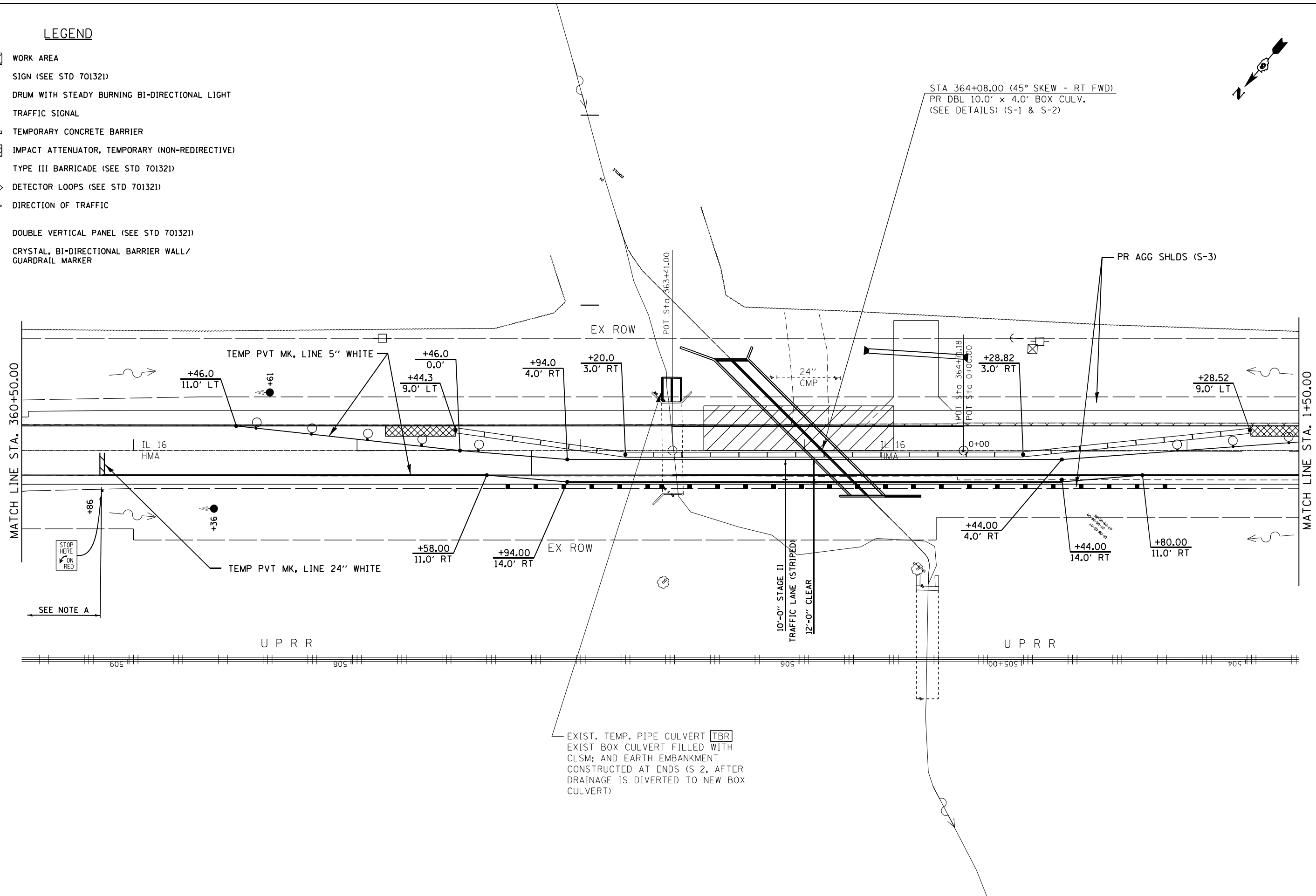
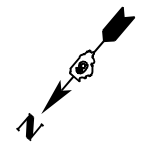
SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	37
CONTRACT NO. 72984				

ILLINOIS FED. AID PROJECT
* MONTGOMERY & CHRISTIAN

LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER



MODEL: D:\p\h\p\...
FILE NAME: U:\C\CH\EL\ED\data\Drawing\Microsoft\p\112\17188B21\CAD\Draw_SN 011-2513\UCAD\sheet\0672984-ent-Stage-II-2513.dgn



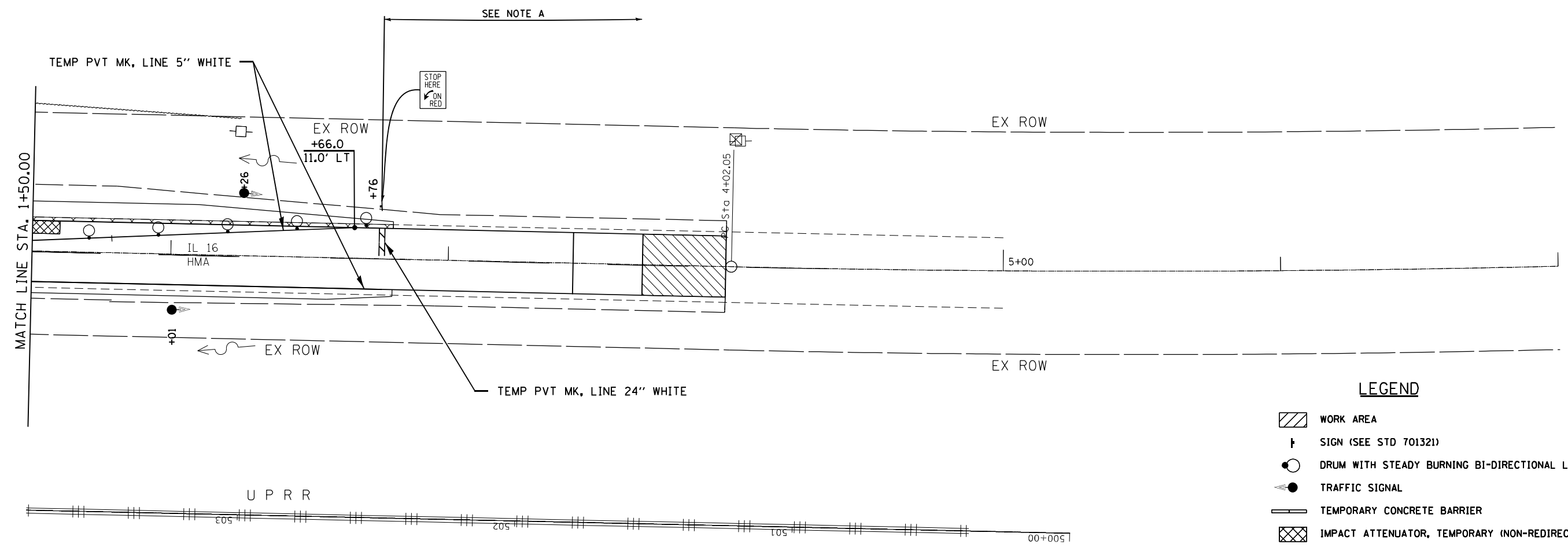
USER NAME = mescaat	DESIGNED -	REVISED -	
	DRAWN - CFC	REVISED -	
PLOT SCALE = 40,0000 * / in.	CHECKED - MCB	REVISED -	
PLOT DATE = 5/3/2023	DATE -	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**








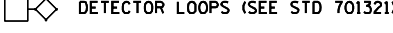



**STAGE II TRAFFIC CONTROL
IL 16 SN 011-2513**

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	38
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				



LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER

NOTE A

REMAINDER OF SIGNING ACCORDING TO STANDARD 701321
 TEMPORARY RUMBLE STRIPS WILL BE USED AND PLACED
 ACCORDING TO STANDARD 701321.
 ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING
 TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC
 CONTROL AND PROTECTION STANDARD 701321.

MODEL: D:\p\h\p\...
 FILE NAME: \\C:\CHEL\ED\Drawings\Microstation\2112\17188B21\CADD\Draw_S\N_011-7039_011-2513\CA\Sheet\0672984-ent-Stage-II-2513.dgn
 FEHR GRAHAM PROJECT NUMBER: 10005-2 (15-1027F)



USER NAME = mescaat	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/3/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

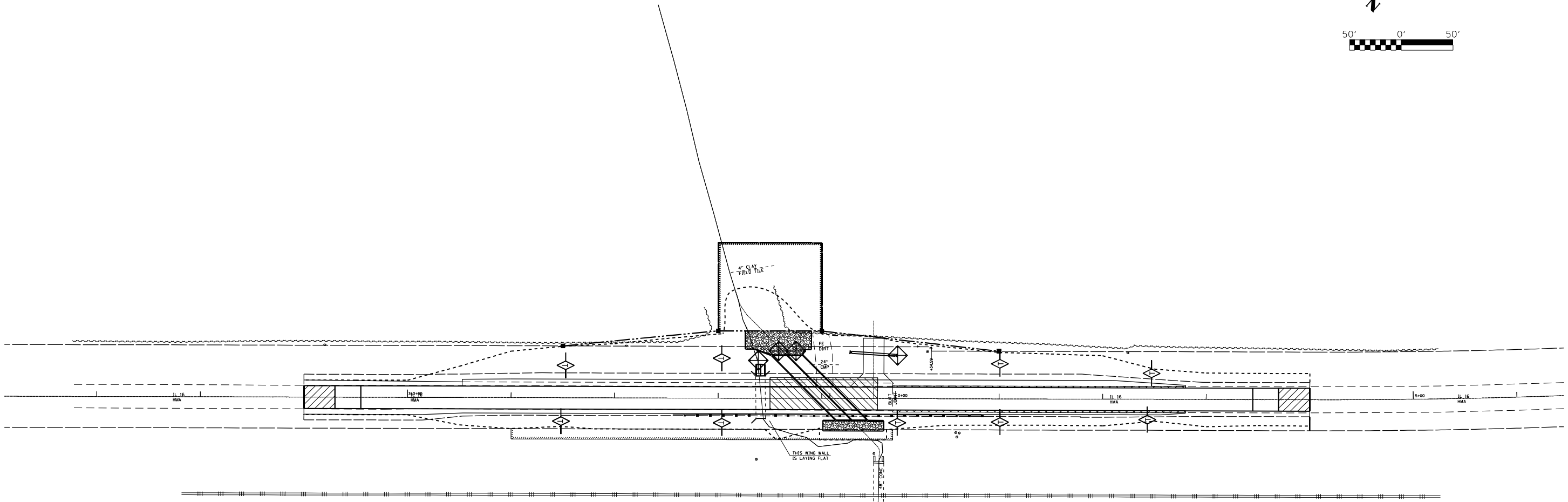
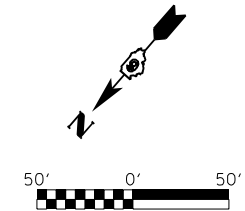
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE II TRAFFIC CONTROL
 IL 16 SN 011-2513**



SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	39
CONTRACT NO. 72984				

ILLINOIS FED. AID PROJECT
 * MONTGOMERY & CHRISTIAN



LEGEND

-  INLET & PIPE PROTECTION
-  TEMPORARY DITCH CHECK

MODEL Path: \\...
 FILE NAME: \\...



USER NAME = mesca1	DESIGNED -	REVISED -
PLOT SCALE = 100,000,000" / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/3/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
IL 16 SN 011-2513**

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
--------	-------	----	--------	------	---------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	40
CONTRACT NO. 72984				

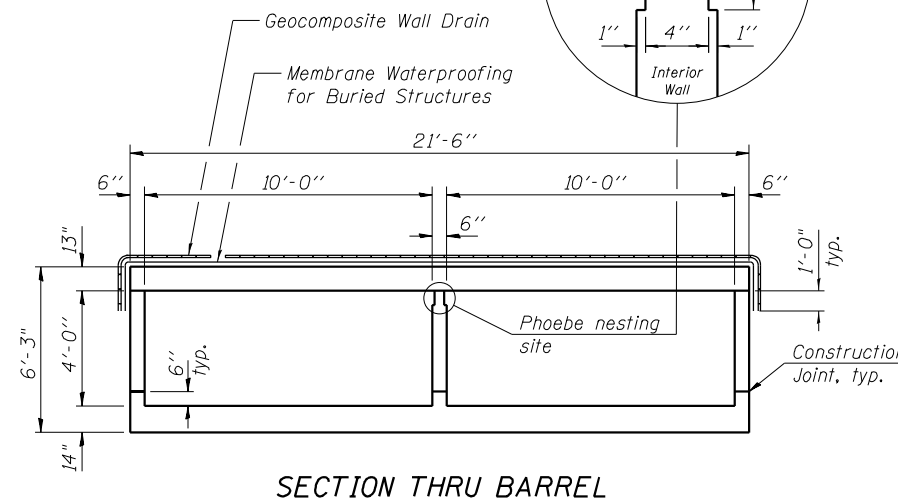
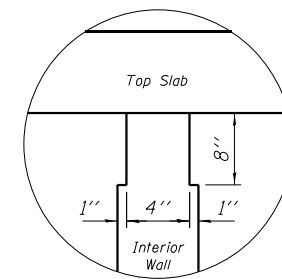
Bench Mark: BM#49 - Chiseled "don West end of South headwall.
Station 363+44.20, 21.6' Lt., Elev. 683.826

Existing Structure:
Structure No. 011-7039 is an 8' x 4' R.C. Box Culvert 41.5' in length. It was constructed in 1923 as SBI Rte. 16, Section 16 @ Sta. 363+41 and was extended in 1956 as Section (15,16X,16). Traffic during construction to be maintained utilizing stage construction.

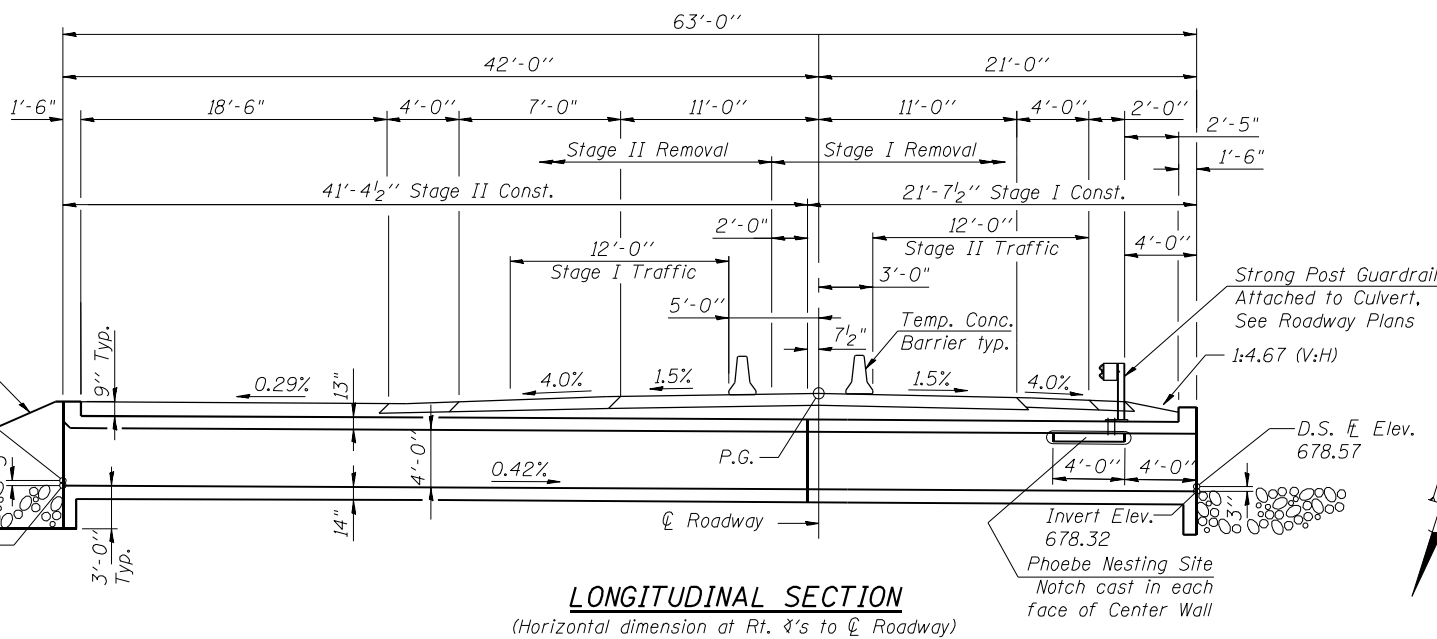
No salvage

Precast alternative is not allowed.

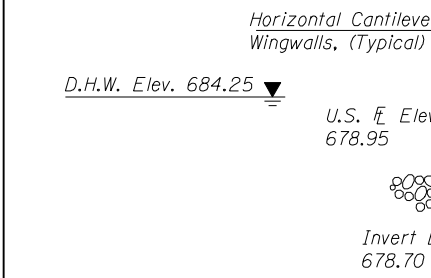
Note:
Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.



SECTION THRU BARREL



LONGITUDINAL SECTION
(Horizontal dimension at Rt. 4's to C Roadway)



Horizontal Cantilever Wingwalls, (Typical)

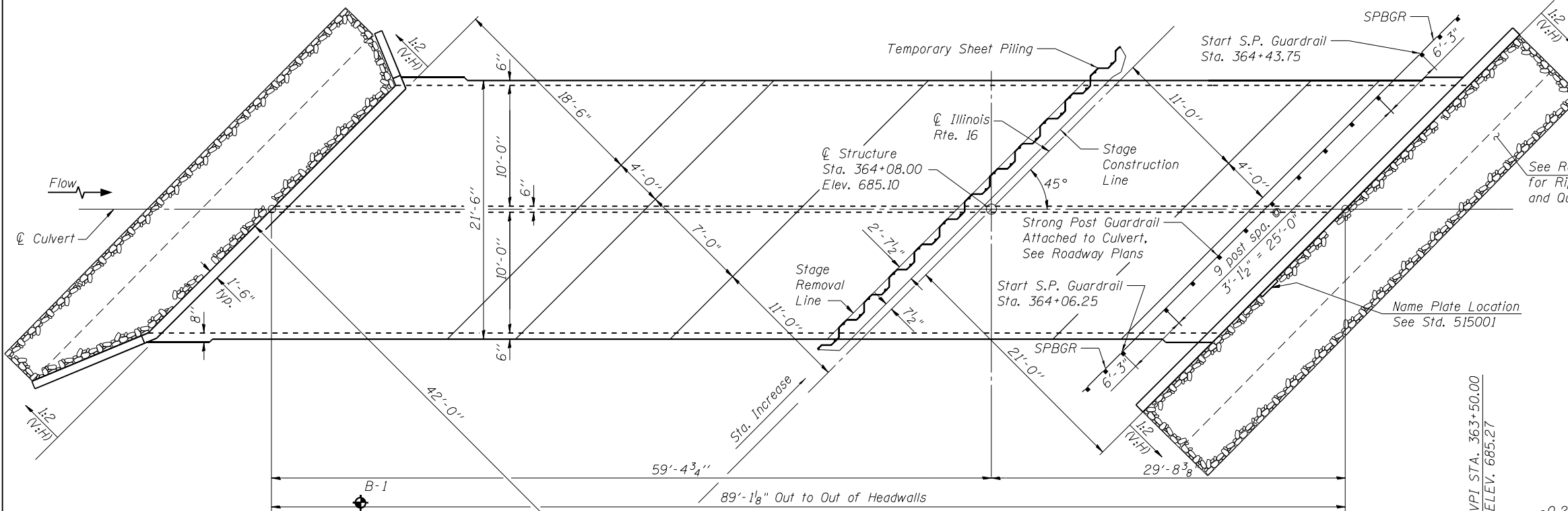
D.H.W. Elev. 684.25

U.S. E. Elev. 678.95

Invert Elev. 678.70

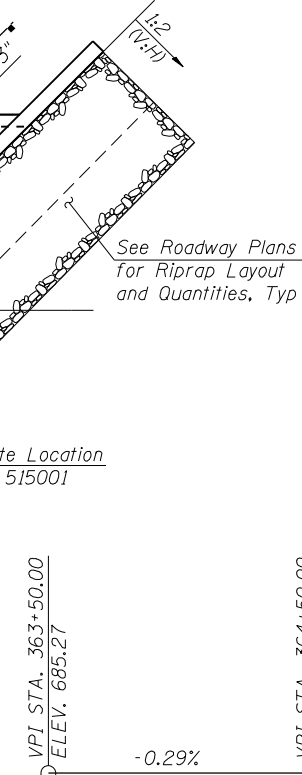
D.S. E. Elev. 678.57

Invert Elev. 678.32
Phoebe Nesting Site
Notch cast in each face of Center Wall



PLAN

Indicates Boring Location



PROFILE GRADE
(along C roadway)

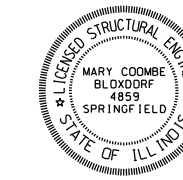
DESIGN SPECIFICATIONS
2020 AASHTO LRFD Bridge Design Specifications,
9th Edition

DESIGN STRESSES
FIELD UNITS

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

LOADING HL-93

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



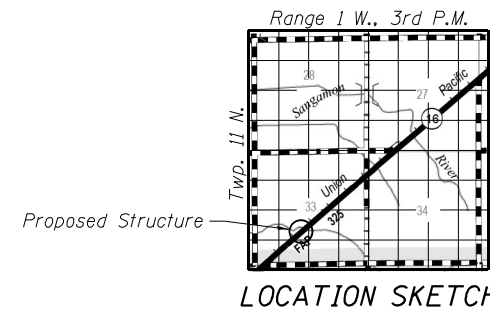
Mary Coombe Bledsoe
ILLINOIS STRUCTURAL NO. 4859
EXPIRES 11/30/24
DATE: 04/28/2023

WATERWAY INFORMATION

Trib. to So. Fork Sangamon River		Existing Overtopping Elevation = 684.70 ft. @ Sta. 364+69		Natural H.W.E.		Head (ft.)		Headwater Elev. (ft.)	
Drainage Area = 0.21 sq. mi.		Proposed Overtopping Elevation = 684.90 ft. @ Sta. 364+69		Exist.		Prop.		Exist.	
Flood Year	'Q' C.F.S.	Opening Sq. Ft. Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.	Exist.
Design	50	330	32/70	80	683.44	0.6	0	684.01	683.36
Base	100	390	32/90	80	684.25	0.7	0	684.97	684.28
Overtopping (Exist.)	20	230	Culv./Weir	Culv./Weir	684.44	0.6	0.2	685.04	684.67
Overtopping (Prop.)	140	430							
Max. Calc.	500	550	32/170	80/160	684.90	0.4	0.3	685.25	685.22

Datum: NAVD 88
All-Time H.W.E. & Date: 684.65 2009
850' West of culvert

10 yr. velocity thru existing Structure = 5.88 fps
10 yr. velocity thru proposed structure = 2.51 fps



LOCATION SKETCH

GENERAL PLAN
ILLINOIS RTE. 16 OVER
TRIBUTARY TO SOUTH FORK SANGAMON RIVER
F.A.P. RTE. 325 - SEC. 18(B-2, B-3)
CHRISTIAN COUNTY
STATION 364+08.00
STRUCTURE NO. 011-2513



USER NAME = mgopalraj	DESIGNED - SEG	REVISED -
PLOT SCALE = 0:2.0000 " = 1' in.	CHECKED - JGT	REVISED -
PLOT DATE = 4/27/2023	DRAWN - DAP	REVISED -
	CHECKED - JGT	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 011-2513

SHEET 1 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	CHRISTIAN	142	41
CONTRACT NO. 72984				

ILLINOIS FED. AID PROJECT

MODEL: 001
FILE NAME: \\ROCHELLE\Drawings\Microstation\212.1-7188\21CADData\SN 011-7039 (011-2513)\CADSheets\0112513-72984-Box Culvert.dgn

GENERAL NOTES

1. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
2. The Contractor shall sawcut the existing slabs and walls at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
3. If the culvert barrel is lowered to more closely match existing flowline, the foundation recommendations do not change. "Contact the District Geotechnical Engineer to verify foundation conditions meet plan requirements".

STATION 364+08.00
 BUILT 20__ BY
 STATE OF ILLINOIS
 F.A.P. RT. 325 SEC. 18(B-2, B-3)
 LOADING HL-93
 STR. NO. 011-2513

NAME PLATE

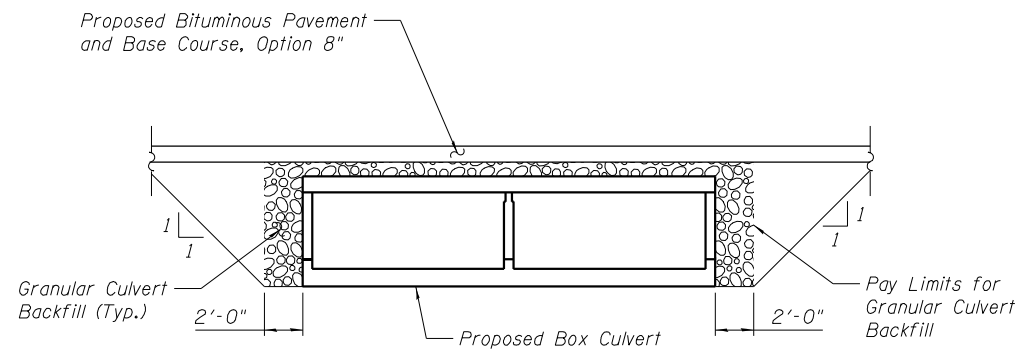
Locate Name Plate on
 Headwall.
 (See Std. 515001)

INDEX OF SHEETS

1. General Plan and Elevation
2. General Data
- 3-4. Stage Construction - Temporary Sheet Piling
5. Temporary Concrete Barrier for Stage Construction
6. Culvert Details (Sheet 1 of 2)
7. Culvert Details (Sheet 2 of 2)
8. Bar Splicer Assembly and Mechanical Splicer Details
9. Boring Logs

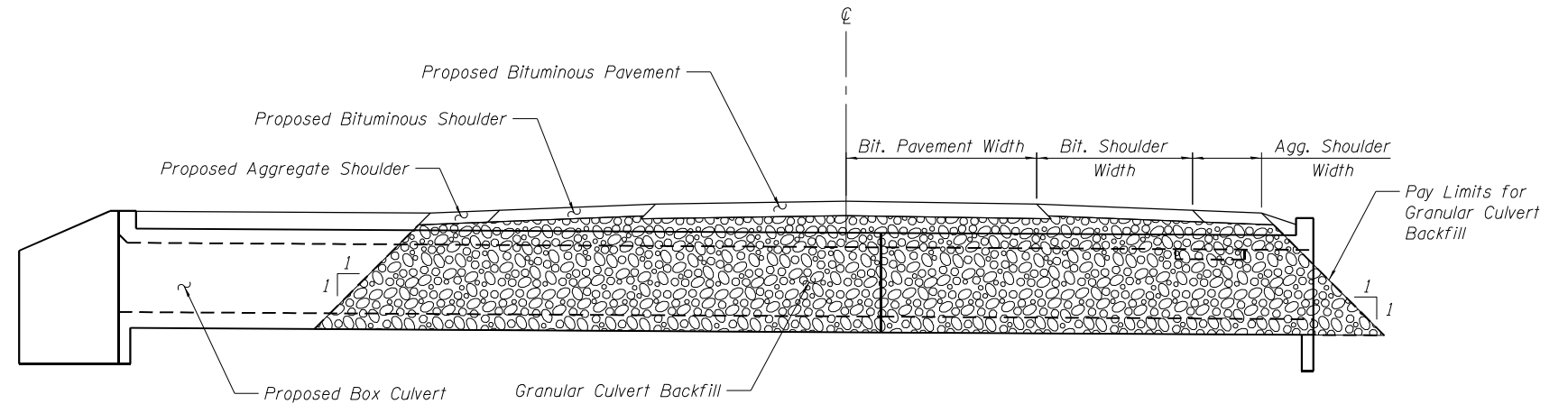
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Reinforcement Bars	Pound	-	51,220	51,220
Bar Splicers	Each	-	100	100
Name Plates	Each	-	1	1
Temporary Sheet Piling	Sq. Ft.	-	1251	1251
Concrete Box Culverts	Cu. Yd.	-	199.2	199.2
Granular Culvert Backfill	Cu. Yd.	-	115	115
Membrane Waterproofing System for Buried Structures	Sq. Yd.	-	246	246
Geocomposite Wall Drain	Sq. Yd.	-	246	246
Strong Post Guardrail Attached to Culvert	Lin. Ft.	-	37.5	37.5



PROFILE GRANULAR CULVERT BACKFILL DETAIL

(At Rt. angle to ϕ Box Culvert)



CROSS SECTION GRANULAR CULVERT BACKFILL DETAIL

MODEL: 002
 FILE NAME: I:\ROCHELLE\Drawings\Microstation\212.1-7188\21CADData_SN 011-7039 (011-2513)\CADsheets\0112513-72984-Box_Culvert.dgn

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = mgopalraj	DESIGNED - SEG	REVISED -
PLOT SCALE = 0:2.0000 " = 1" / in.	CHECKED - JGT	REVISED -
PLOT DATE = 4/27/2023	DRAWN - DAP	REVISED -
	CHECKED - JGT	REVISED -

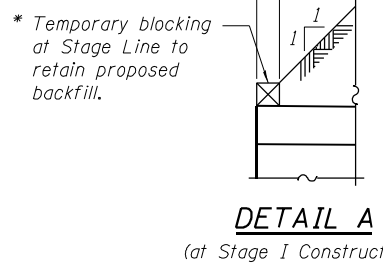
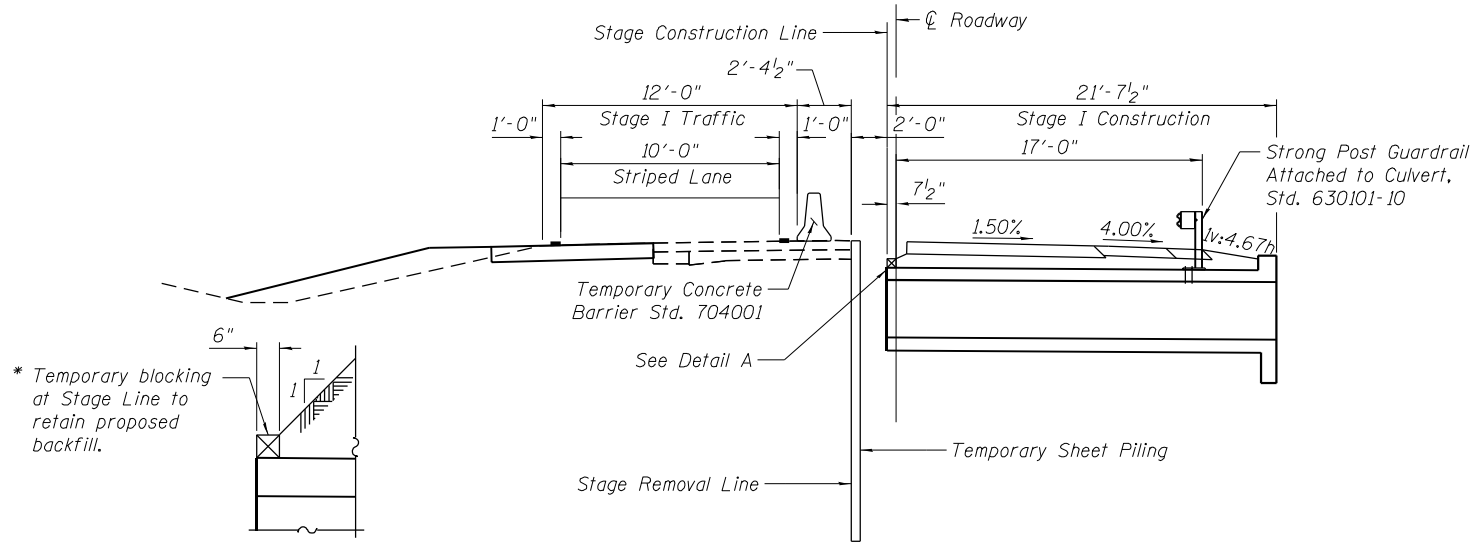
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL DATA
 STRUCTURE NO. 011-2513

SHEET 2 OF 9 SHEETS

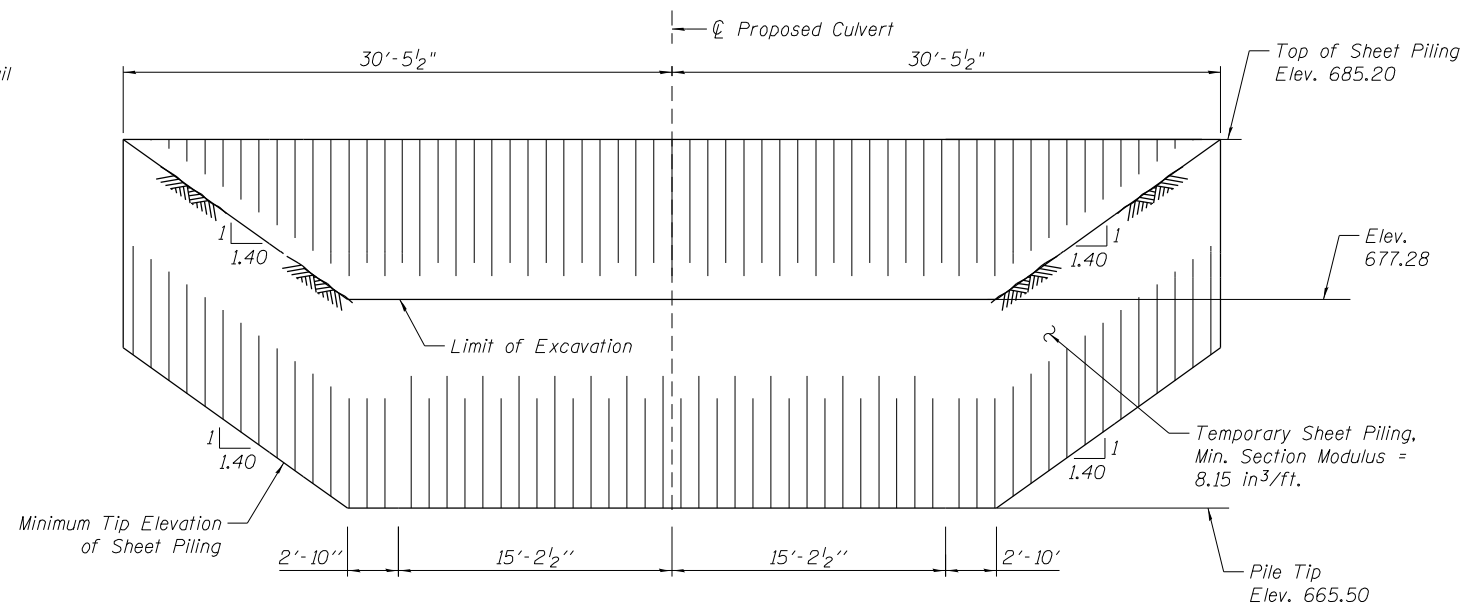
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	CHRISTIAN	142	42
			CONTRACT NO. 72984	
ILLINOIS FED. AID PROJECT				

FEHR GRAHAM PROJECT NUMBER: 10005-2

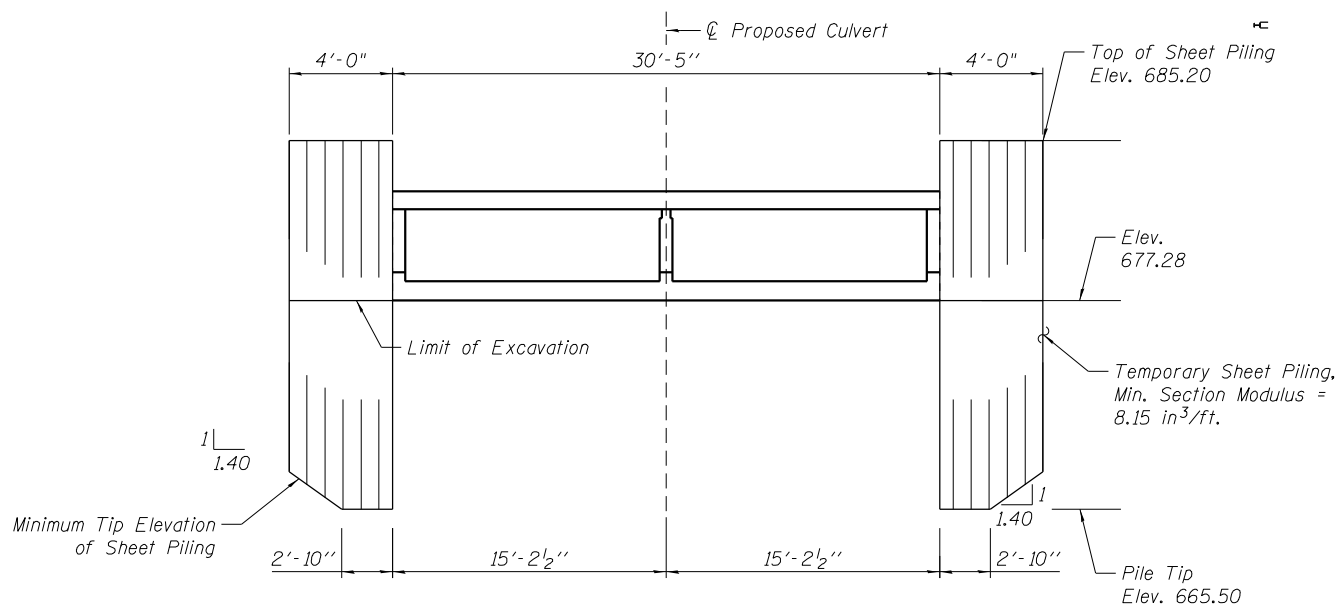


* The Contractor shall submit the design calculation and details for the temporary blocking for review and approval by the Engineer. Cost included in Temporary Sheet Piling.

STAGE I CONSTRUCTION
 (Horizontal dimension at Rt. 4's to Centerline Roadway)



STAGE I ELEVATION - TEMPORARY SHEET PILING



STAGE I ELEVATION - TEMPORARY SHEET PILING
 (Along Centerline of Roadway)

These sheets are to be driven prior to backfilling Stage I construction.

NOTE:

- If the Contractor chooses to alter the temporary sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

MODEL: 003
 FILE NAME: \\ROCHELLE\Drawings\Microstation\212.1-7188\21CADData_SN 011-7039 (011-2513)\CADSheets\0112513-72984-Box Culvert.dgn



USER NAME = mgopalraj	DESIGNED - SEG	REVISD -
PLOT SCALE = 0:2,0000 " = 1" / in.	CHECKED - JGT	REVISD -
PLOT DATE = 4/14/2023	DRAWN - DAP	REVISD -
	CHECKED - JGT	REVISD -

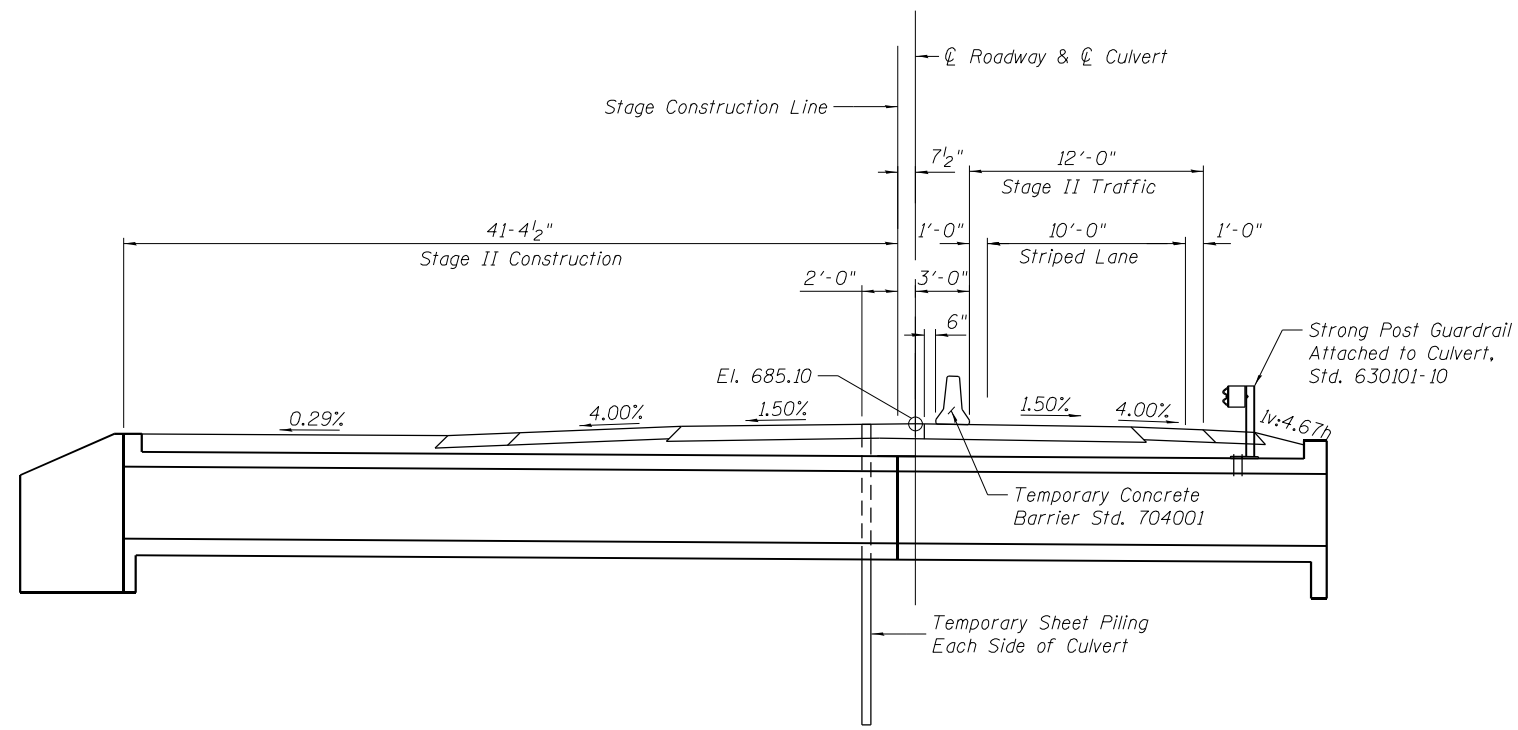
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION - TEMPORARY SHEET PILING
 STRUCTURE NO. 011-2513

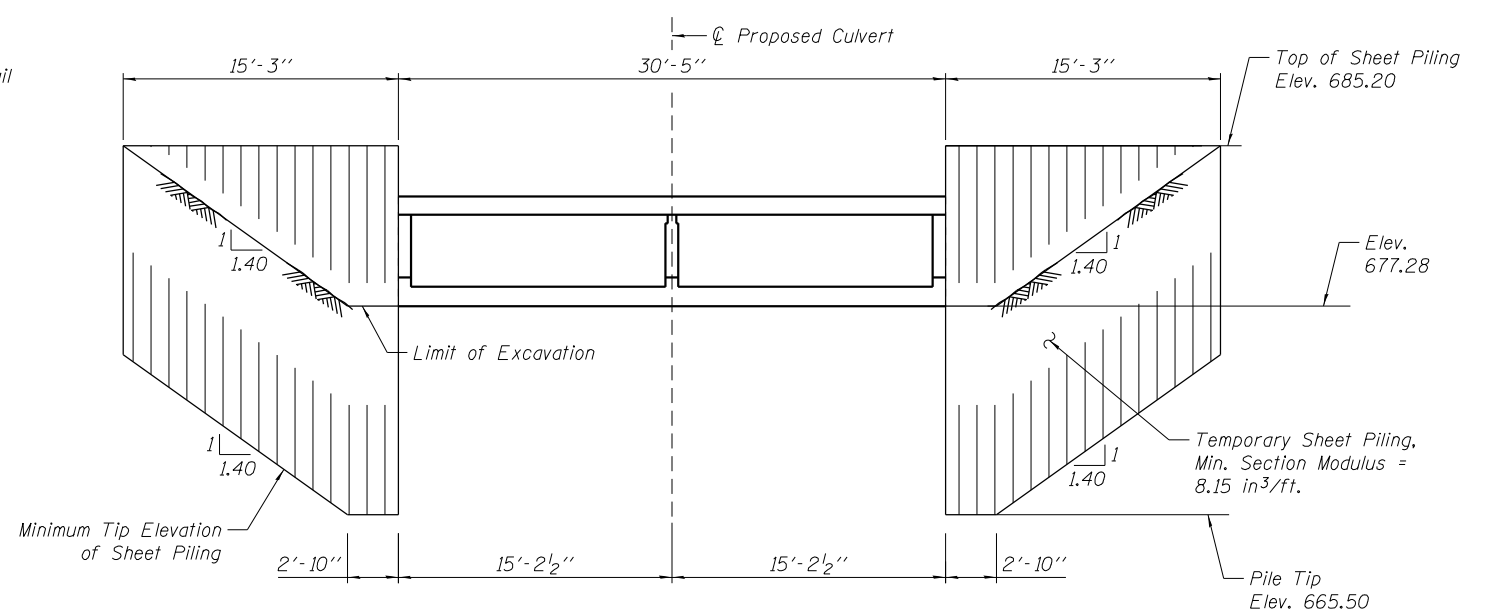
SHEET 3 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	CHRISTIAN	140	43
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

MODEL: 003
 FILE NAME: \\ROCHELLE\Drawings\Microstation\212-1-7188\21CADData_SN 011-7039 (011-2513)\CADSheets\0112513-72984-Box Culvert.dgn
 FEHR GRAHAM PROJECT NUMBER: 10005-2



STAGE II CONSTRUCTION
 (Horizontal dimension at Rt. 4's to \varnothing Roadway)



STAGE II ELEVATION - TEMPORARY SHEET PILING
 (Along \varnothing of Roadway)

NOTE:
 1. If the Contractor chooses to alter the temporary sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.



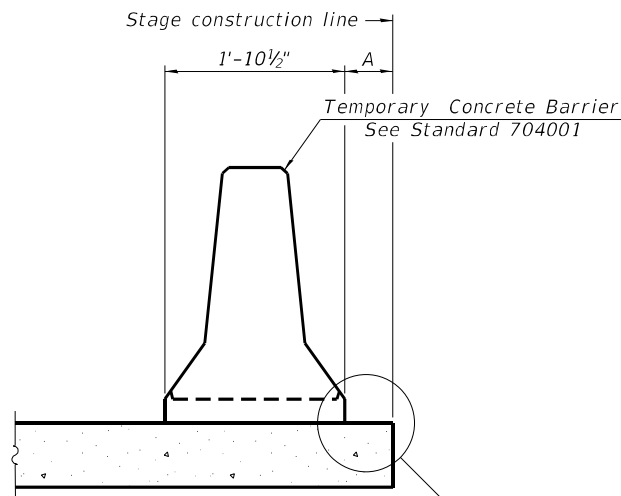
USER NAME = mgopalraj	DESIGNED - SEG	REVISED -
PLOT SCALE = 0:2,0000 " : " / in.	CHECKED - JGT	REVISED -
PLOT DATE = 4/27/2023	DRAWN - DAP	REVISED -
	CHECKED - JGT	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION - TEMPORARY SHEET PILING
 STRUCTURE NO. 011-2513**

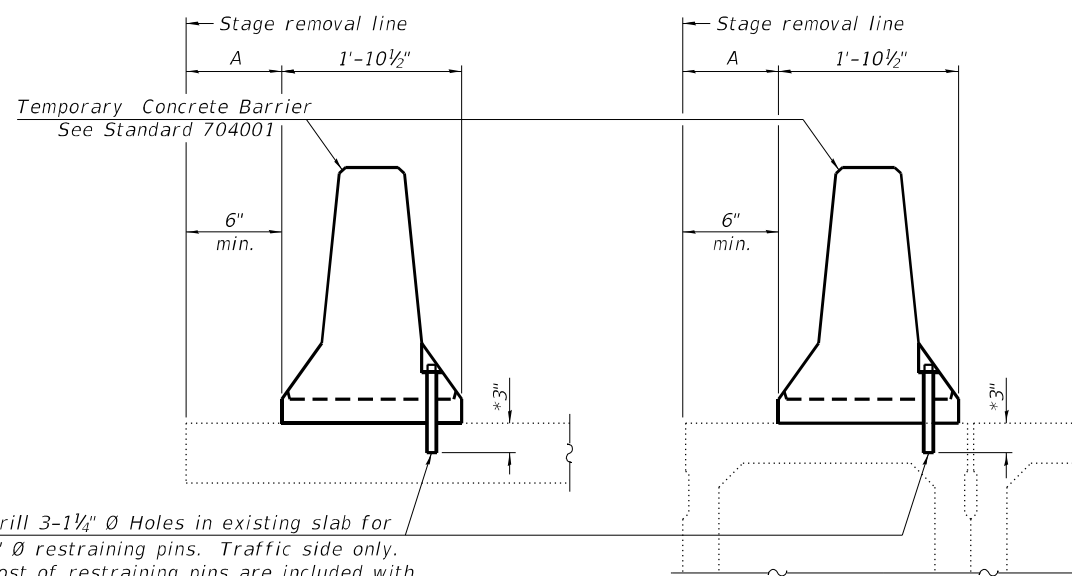
SHEET 4 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	CHRISTIAN	142	44
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72984	



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



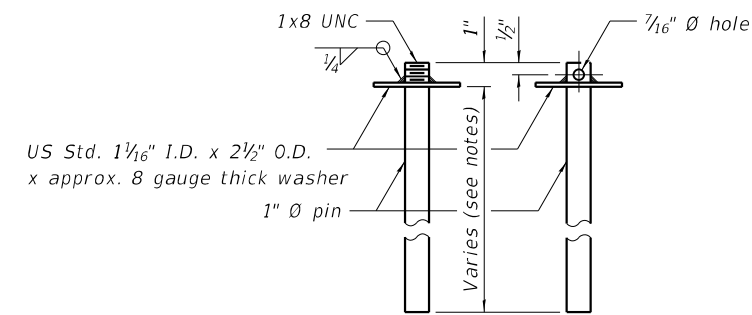
Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

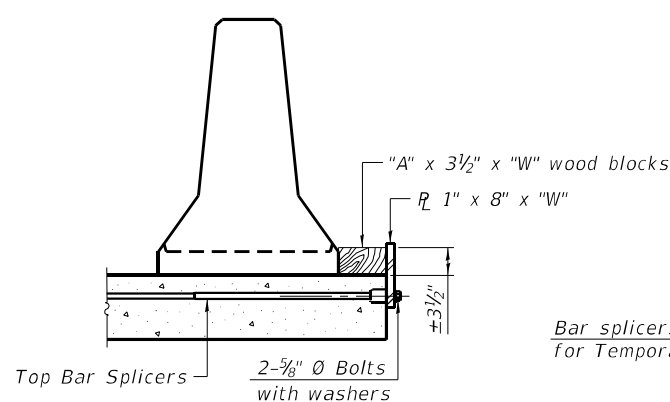
EXISTING DECK BEAM

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

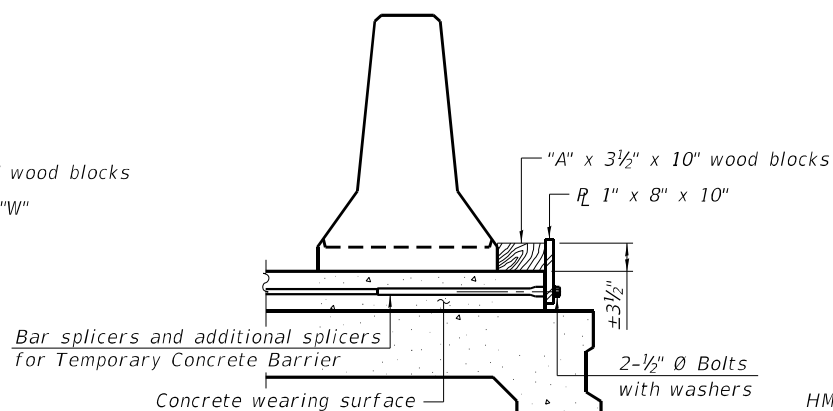
SECTIONS THRU SLAB OR DECK BEAM



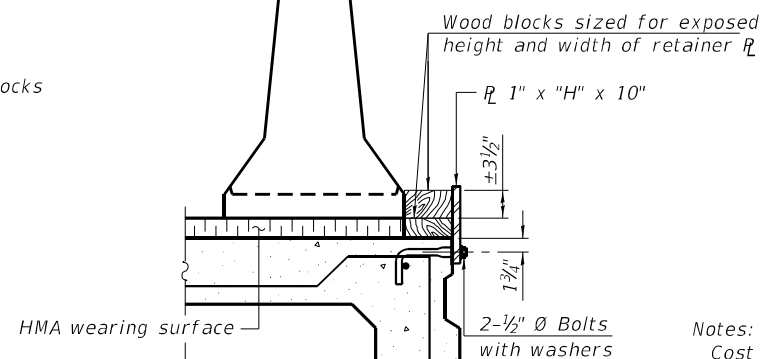
RESTRAINING PIN



DETAIL I



DETAIL II

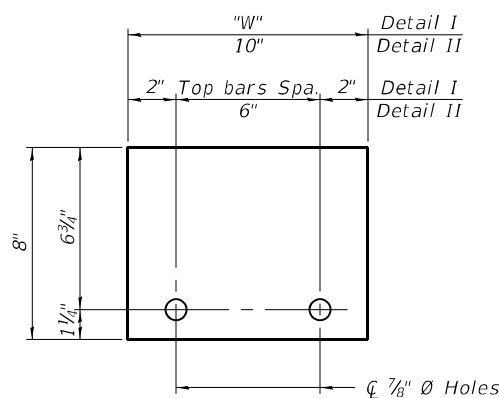


DETAIL III

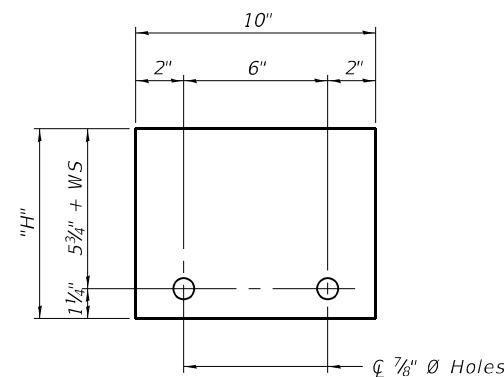
BAR SPLICER FOR #4 BAR - DETAIL III

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate center 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)

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021

MODEL: 004 FILE NAME: \\ROCHELLE\Drawings\Microstation\212.1-1718B\21CADData SN 011-7039 (011-2513)\CADSheets\0112513-72984-Box Culvert.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. IB4-003525

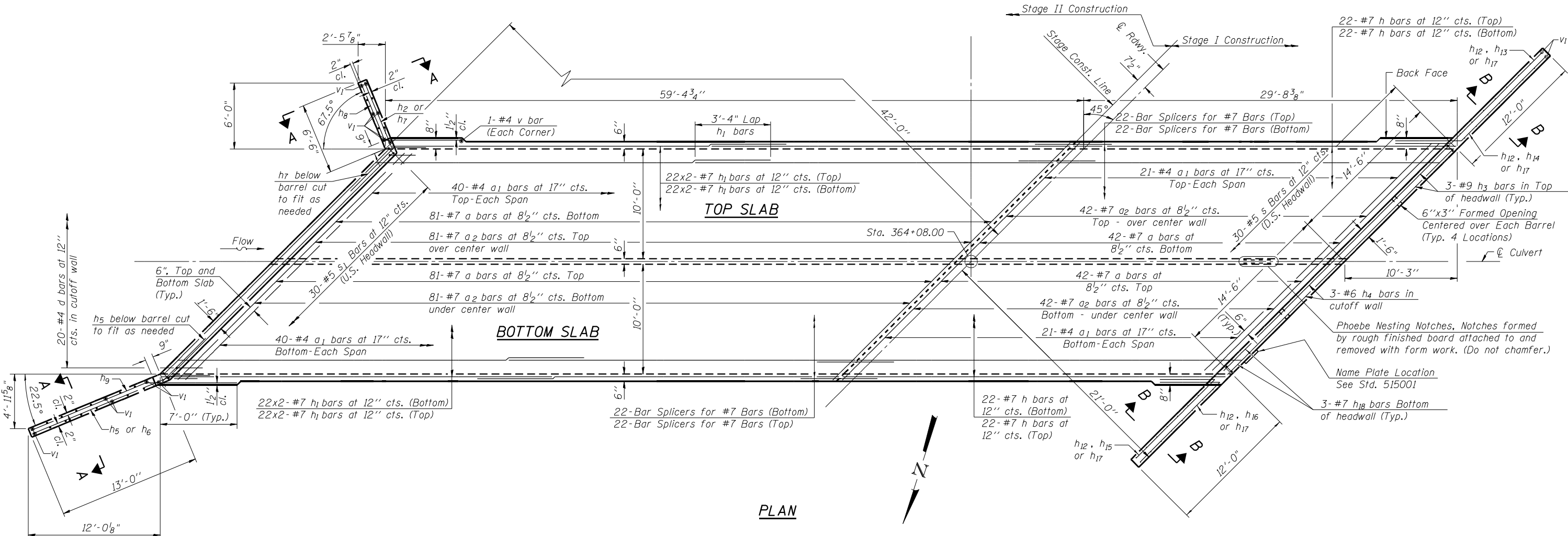
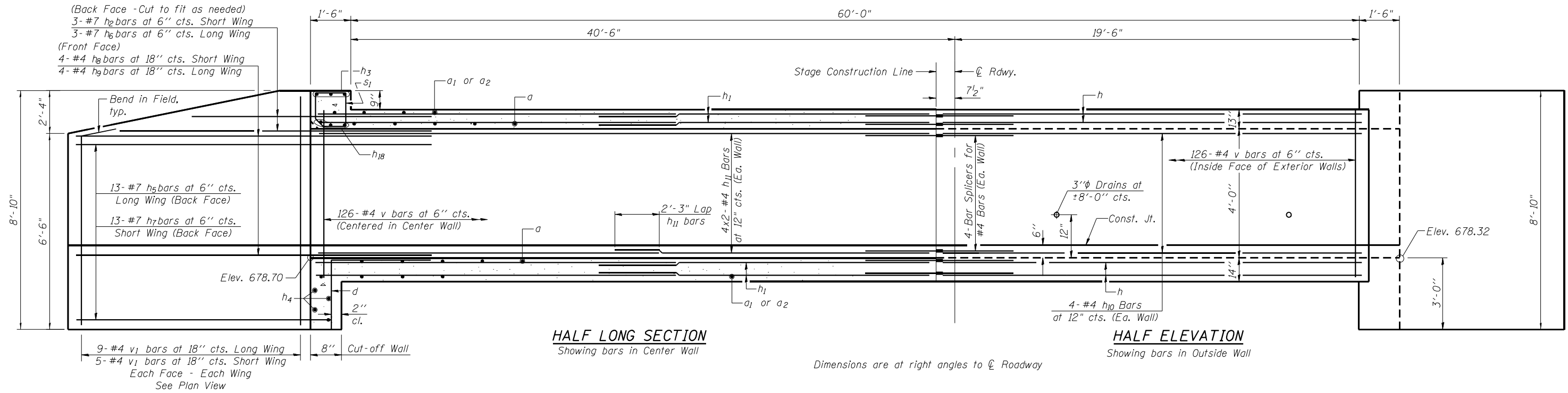
USER NAME =	mgopalraj	DESIGNED -	SEG	REVISED -	
PLOT SCALE =	0:2.0000 " = 1" / in.	CHECKED -	JGT	REVISED -	
PLOT DATE =	4/27/2023	DRAWN -	DAP	REVISED -	
		CHECKED -	JGT	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 011-2513

SHEET 5 OF 9 SHEETS

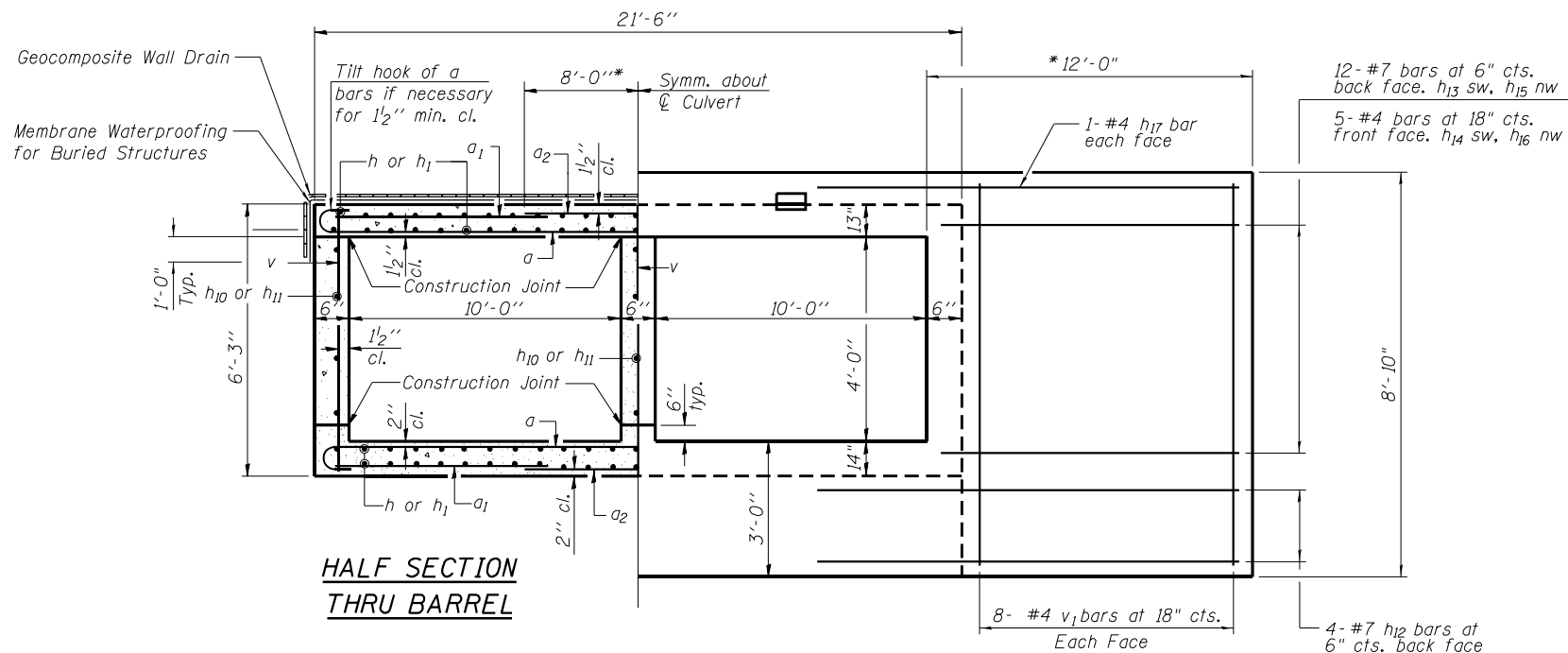
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	CHRISTIAN	142	45
			CONTRACT NO. 72984	
ILLINOIS FED. AID PROJECT				



MODEL: 005
 FILE NAME: \\ROCHELLE\Drawings\Microstation\2121-1718B\21CADData_SN 011-7039 (011-2513)\CADSheets\0112513-72984-Box Culvert.dgn

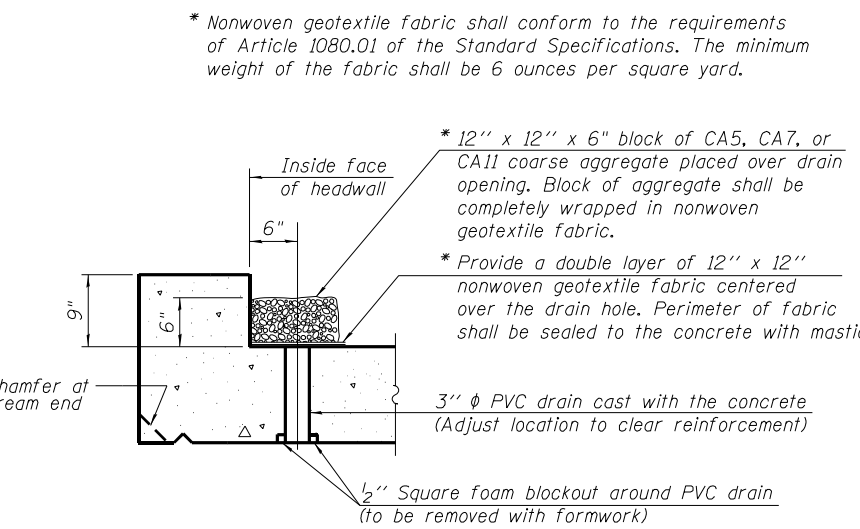
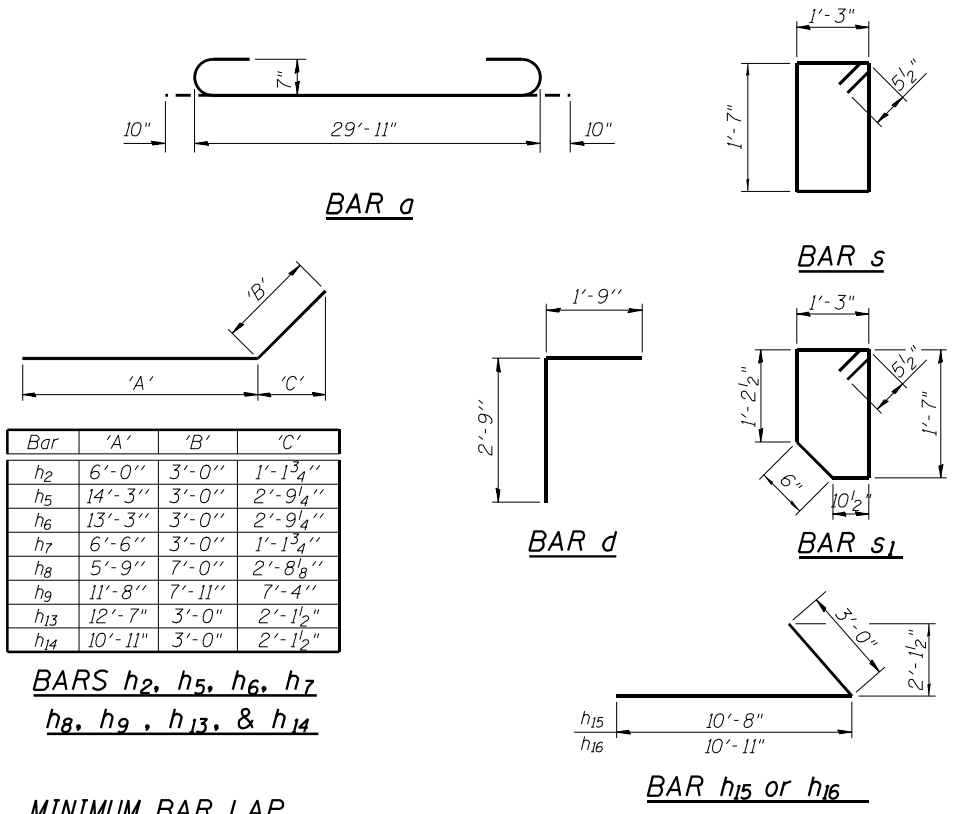
USER NAME = mgopalraj	DESIGNED - SEG	REVISED -
PLOT SCALE = 0:2.0000 " = 1" / in.	CHECKED - JGT	REVISED -
PLOT DATE = 4/27/2023	DRAWN - DAP	REVISED -
	CHECKED - JGT	REVISED -

F.A.P. RTE. 325	SECTION 18(B-2, B-3); 16(CR)	COUNTY CHRISTIAN	TOTAL SHEETS 142	SHEET NO. 46
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72984	

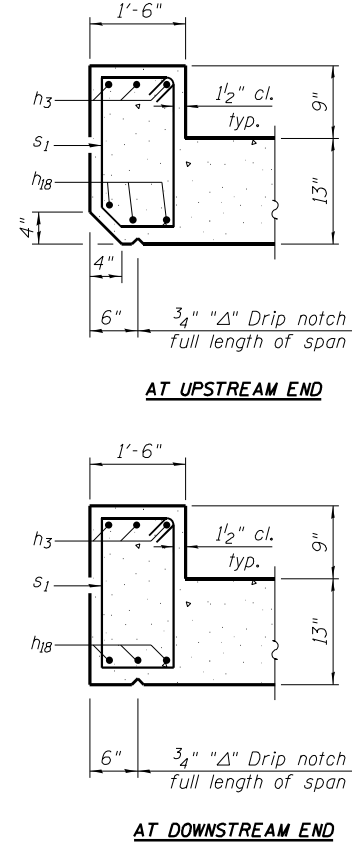
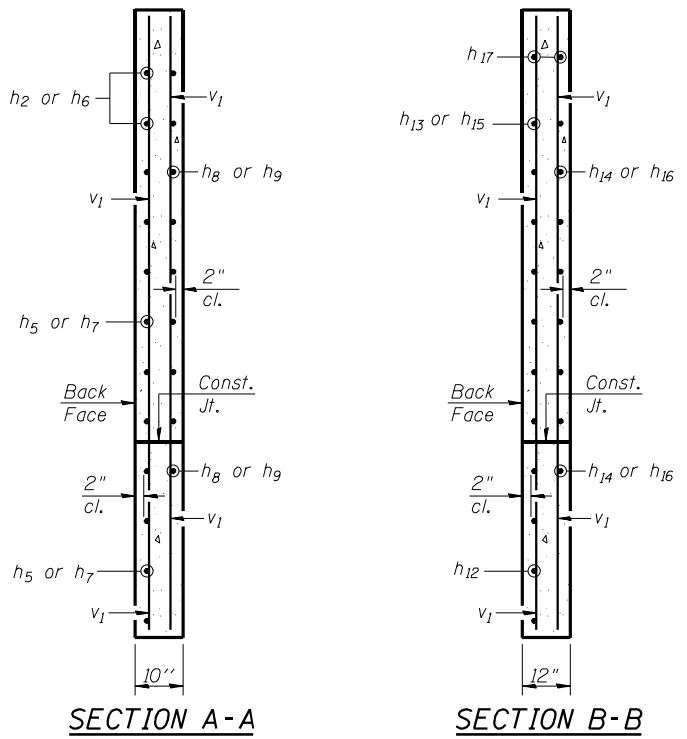


Note:
Geocomposite Wall Drain shall be according to Section 591 of the Standard Specifications, except that concrete nails shall not be used in areas where it overlaps Membrane Waterproofing System for Buried Structures.

* Dimensioned along \varnothing Roadway showing southwest wingwall northwest wingwall similar



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



BILL OF MATERIAL

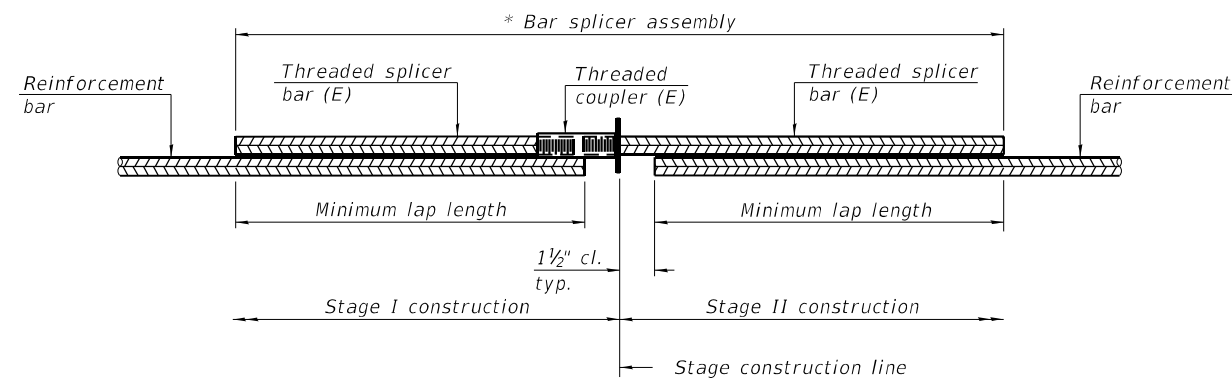
Bar	No.	Size	Length	Shape
a	246	#7	31'-7"	
a1	244	#4	8'-9"	
a2	246	#7	16'-0"	
d	40	#4	4'-6"	
h	88	#7	30'-2"	
h1	176	#7	30'-5"	
h2	3	#7	9'-0"	
h3	6	#9	29'-6"	
h4	6	#6	30'-6"	
h5	13	#7	17'-3"	
h6	3	#7	16'-3"	
h7	13	#7	9'-6"	
h8	4	#4	12'-9"	
h9	4	#4	19'-7"	
h10	12	#4	30'-2"	
h11	24	#4	30'-3"	
h12	8	#7	15'-0"	
h13	12	#7	15'-7"	
h14	5	#7	13'-11"	
h15	12	#7	13'-8"	
h16	5	#7	13'-11"	
h17	4	#4	15'-0"	
h18	6	#7	29'-6"	
s	30	#5	6'-7"	
s1	30	#5	6'-4"	
v	382	#4	5'-10"	
v1	60	#4	8'-6"	
Concrete Box Culverts		Cu. Yd.	199.2	
Reinforcement Bars		Pound	51,220	

Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Bars indicated thus 4x2- #5 etc. indicates 4 lines of bars with 2 lengths per line.

MODEL: 006
FILE NAME: \ROCHELLE\Drawings\Microstation\2112-1-7188\21CADData\SN 011-7039 (011-2513)\CADSheets\0112513-72984-Box Culvert.dgn

USER NAME = mgopalraj	DESIGNED - SEG	REVISED -
PLOT SCALE = 0:2.0000 " = 1/8" / in.	CHECKED - JGT	REVISED -
PLOT DATE = 4/27/2023	DRAWN - DAP	REVISED -
	CHECKED - JGT	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	CHRISTIAN	142	47
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	



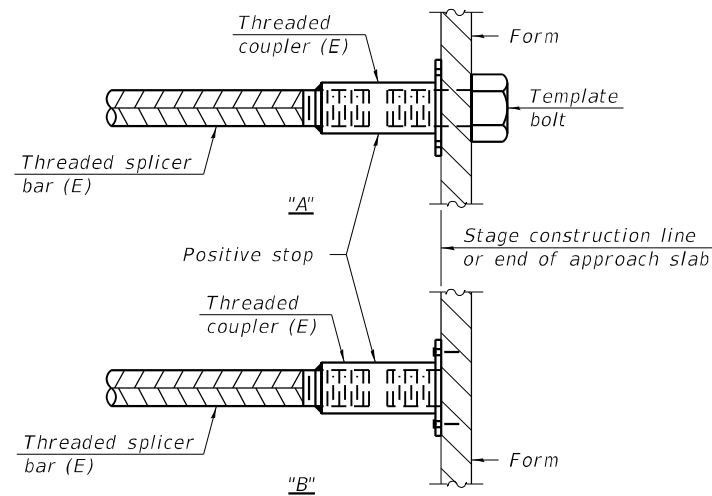
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

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
Top Slab (T & B)	#7	44	3'-4"
Bottom Slab (T & B)	#7	44	3'-0"
3 - Barrel Walls	#4	12	2'-3"

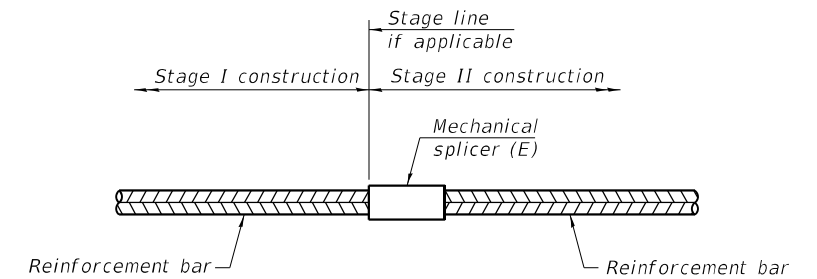


INSTALLATION AND SETTING METHODS

"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

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.

BSD-1

2-1-2023

MODEL: 007
FILE NAME: I:\ROCHELLE\Drawings\Microstation\212.1-17188\21CADData_SN 011-7039 (011-2513)\CADSheets\0112513-72984-Box_Culvert.dgn



USER NAME = mgopalraj	DESIGNED - SEG	REVISD -
CHECKED - JGT	REVISD -	
PLOT SCALE = 0:2.0000 " = 1" / in.	DRAWN - DAP	REVISD -
PLOT DATE = 4/27/2023	CHECKED - JGT	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 011-2513

SHEET 8 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	CHRISTIAN	142	48
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72984	

FEHR GRAHAM PROJECT NUMBER: 10005-2



SOIL BORING LOG

ROUTE IL-16 DESCRIPTION over Unnamed Ditch LOGGED BY M. Tappan
 SECTION ? LOCATION SW 1/4, SEC. 33, TWP. 11N, RNG. 1W, 3 PM
 COUNTY Christian DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO.	BORING NO.	Station	Offset	Ground Surface Elev.	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After	D E P T H (ft)	B L O W S (/6")	U C S Qu (tsf)	M O I S T (%)	
011-7039	1	363+41	14.0ft Lt	684.5					681.0(Dry)	681.0									
Very Dark Gray Moist SILTY CLAY (Fill)					1				Gray Moist CLAY LOAM (Till) (continued)					2					
					2	1.3	25							4	2.3	10			
					3	B								6	B				
					1									3					
					1	.70	29							4	2.4	11			
					1	B			660.00					7	S-13				
Brown and Gray Moist SILTY CLAY (Till)					0				Boring Completed										
					2	1.0	22												
					2	B													
Very Moist					0														
					1	.60	25												
					2	B													
					-10														
Olive Brown and Gray Very Moist					0				Ref. STA to CL of Ex. Structure= 363+41. STA increase to South (SW) Ref. Elev. to Chsld Square on South Headwall = 683.8										
					1	.60	24												
					2	B													
Gray Very Moist LOAM (Till) with 6" Seam Wet Dirty Coarse Sand Free Water					0														
					1	.40	26												
					1	B													
Gray Moist CLAY LOAM (Till)					0														
					1	1.0	11												
					2	B													
					1														
					4	2.3	11												
					5	B													
					-20														

File Name C:\PROGRAM FILES\BENTLEY\GINT\IL-16 SN 011-7039.GPJ Data Template 06TEMPLATE.GDT Date Printed 10/18/11
Latitude 39.21060N Longitude 89.12356W Datum NAD83 Job Number D-96-022-05

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

MODEL: 008
FILE NAME: \\ROCHELLE\Drawings\Microstation\212\1-7188\2\CADData_SN 011-7039 (011-2513)\CADSheets\0112513-72984-Box_Culvert.dgn



USER NAME = mgopalraj	DESIGNED - SEG	REVISED -
PLOT SCALE = 0:2,0000 " = 1/8" in.	CHECKED - JGT	REVISED -
PLOT DATE = 4/27/2023	DRAWN - DAP	REVISED -
	CHECKED - JGT	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOG
STRUCTURE NO. 011-2513**

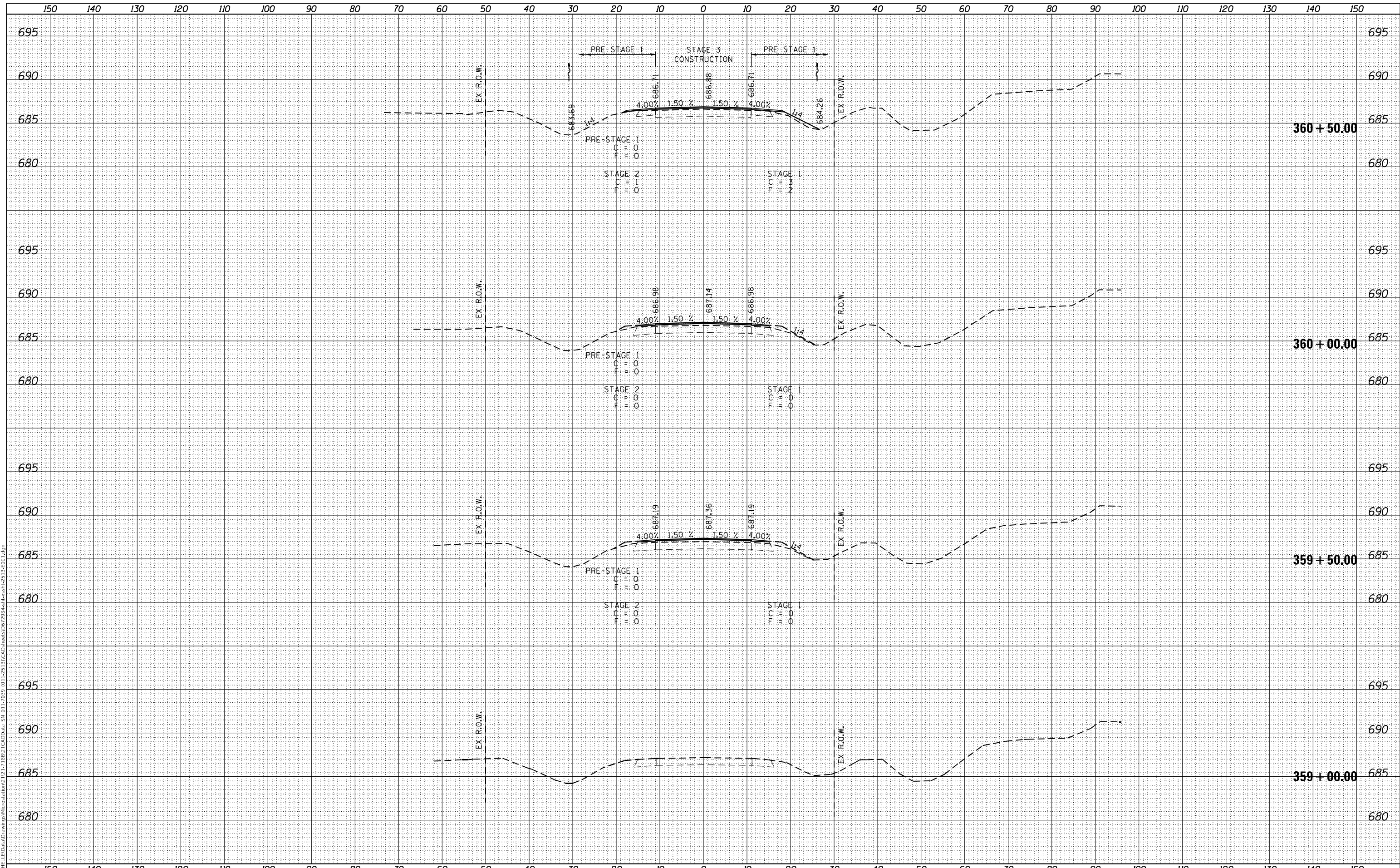
SHEET 9 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	CHRISTIAN	142	49
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72984	

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

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

MODEL: Definit
 FILE NAME: W:\CHIEF\ED\Drawings\Restoration\17171-18B\2\CD\Drawn SN 011-2038 (011-25) 3\CAD\sheet067984-ent-ent25 13x01.dwg

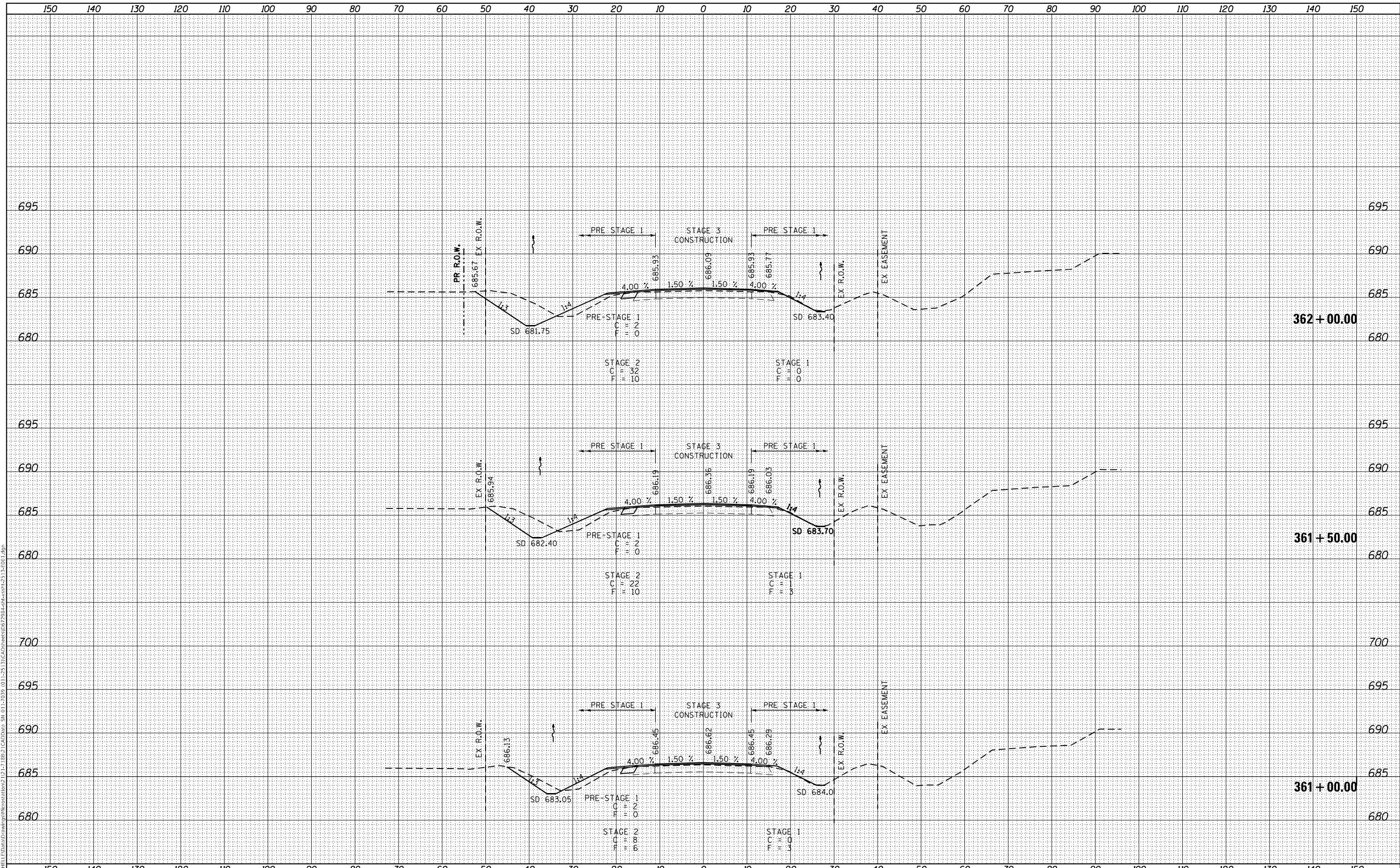


FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525 FEHR GRAHAM PROJECT NUMBER: 10005-2 (15-1027F)	USER NAME = mescatel	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS IL 16 SN 011-2513	F.A.P. RTE. 325	SECTION 18(B-2, B-3); 16(CR)	COUNTY *	TOTAL SHEETS 142	SHEET NO. 50		
	PLOT SCALE = 20,000000 ' / in.	CHECKED - MCB	REVISED -			SCALE:	SHEET 1	OF 8 SHEETS	STA. 359+00.00	TO STA. 360+50.00	CONTRACT NO. 72984	
	PLOT DATE = 5/9/2023	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						
	MONTGOMERY & CHRISTIAN											

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

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

MODEL: D:\mch\...
 FILE NAME: W:\CHIEF\...
 USER: mesccat



USER NAME	= mesccat
DESIGNED	-
DRAWN	- CFC
CHECKED	- MCB
DATE	-
PLOT SCALE	= 20,000000 ' / in.
PLOT DATE	= 4/28/2023

DESIGNED	-
REVISIED	-
REVISIED	-
REVISIED	-
REVISIED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 16 SN 011-2513**

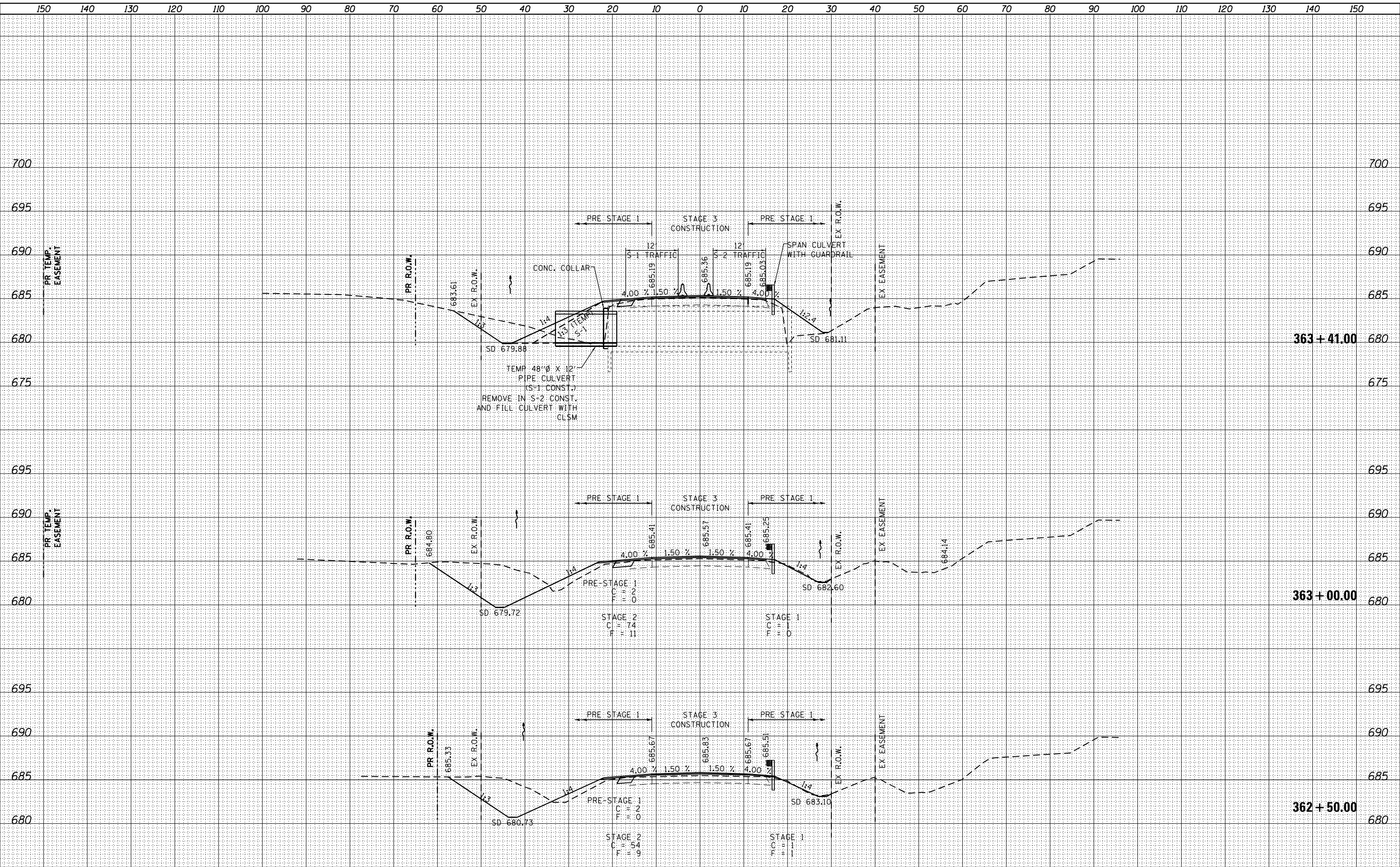
SCALE: SHEET 2 OF 8 SHEETS STA. 361+00.00 TO STA. 362+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3): 16(CR)	*	142	51
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
* MONTGOMERY & CHRISTIAN				

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

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

MODEL: Defail.rvt
FILE NAME: W:\CHIEF\B\Drawings\Illinois\116\116-213\CAD\Sheet\067984-ent\sect25 13=01.dwg



USER NAME =	mescatel
PLOT SCALE =	20,000000' / in.
PLOT DATE =	4/28/2023

DESIGNED -	
DRAWN -	CFC
CHECKED -	MCB
DATE -	

REVISED -	
REVISED -	
REVISED -	
REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
IL 16 SN 011-2513**

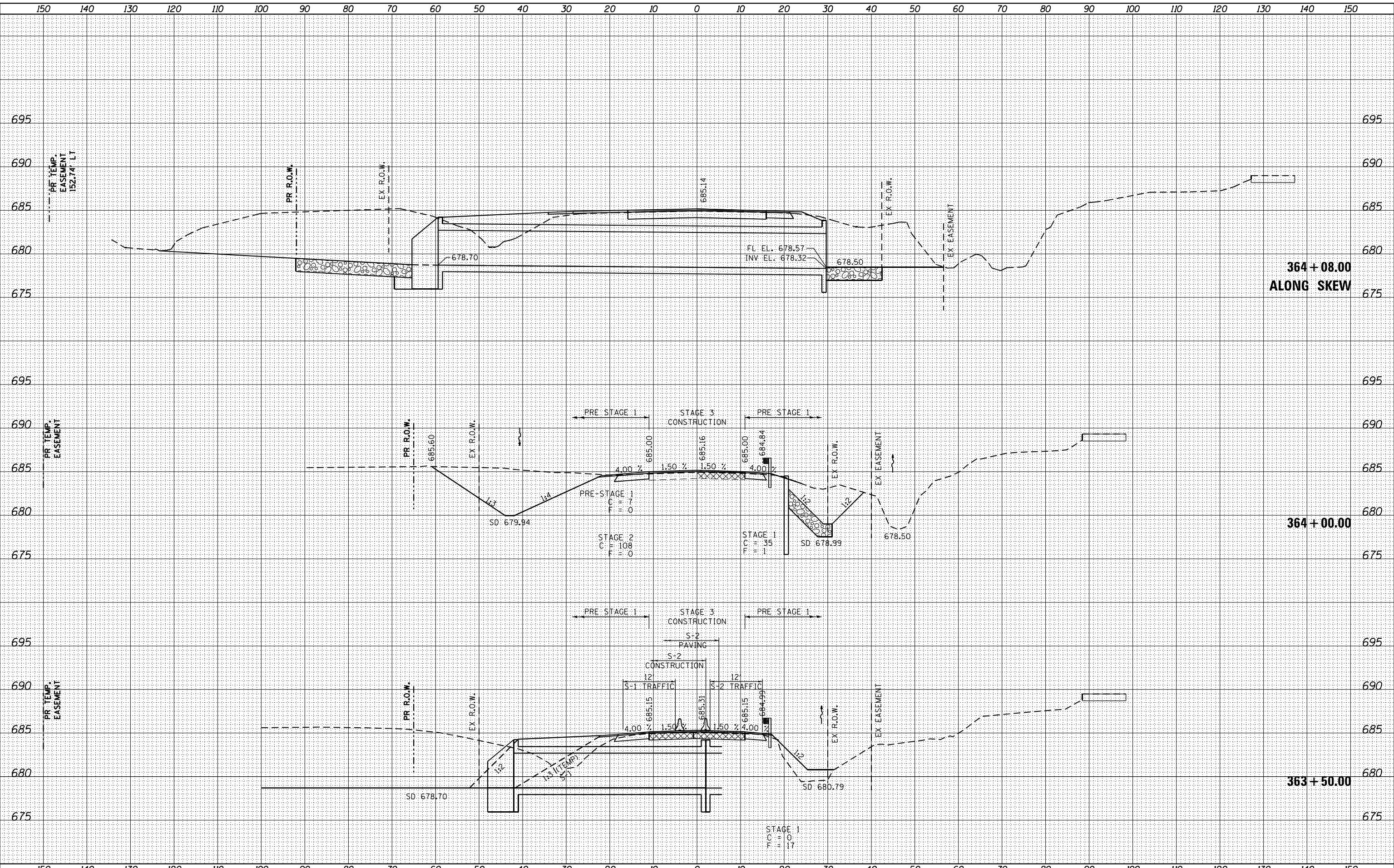
SCALE: SHEET 3 OF 8 SHEETS STA. 362+50.00 TO STA. 363+41.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	52
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT			* MONTGOMERY & CHRISTIAN	

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

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

MODEL: Definit
 FILE NAME: W:\CHIEF\ED\Drawings\Restoration\17171-18B\2\CAD\Draw SN 011-2513\17171-18B\2\CAD\Draw SN 011-2513\17171-18B\2\ent\ent2513e01.dwg



USER NAME = mescaiel
 PLOT SCALE = 20,000000 ' / in.
 PLOT DATE = 4/28/2023

DESIGNED -
 DRAWN - CFC
 CHECKED - MCB
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 16 SN 011-2513

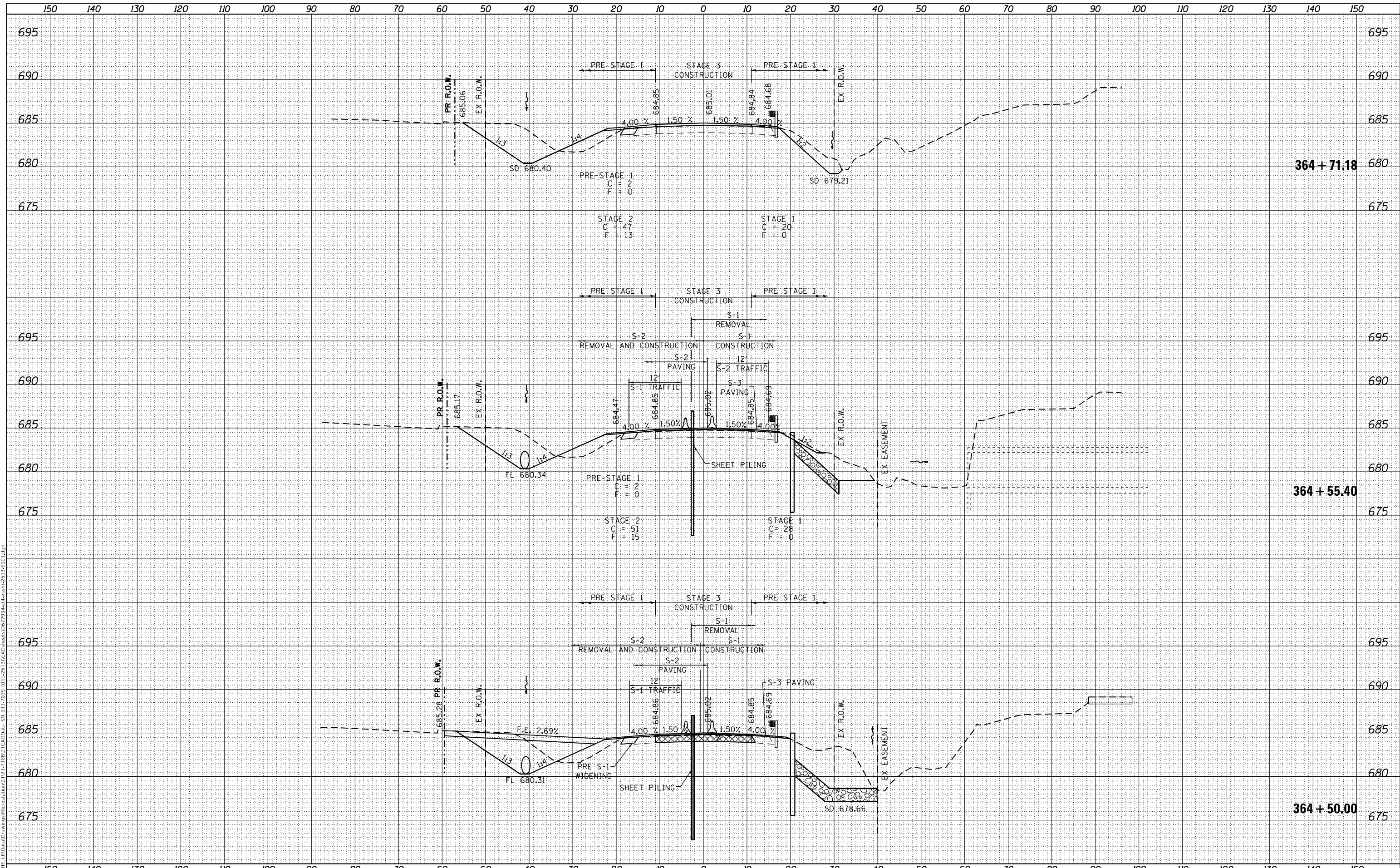
SCALE: SHEET 4 OF 8 SHEETS STA. 363+50.00 TO STA. 364+08.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	53
CONTRACT NO. 72984				

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

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

MODEL: D:\mch\l\Drawings\Illinois\10005-2\115-1027F.dwg
 FILE NAME: W:\CHIEF\Drawings\Illinois\10005-2\115-1027F.dwg



FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = mescalet	DESIGNED -	REVISED -
PLOT SCALE = 20,000000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 4/28/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

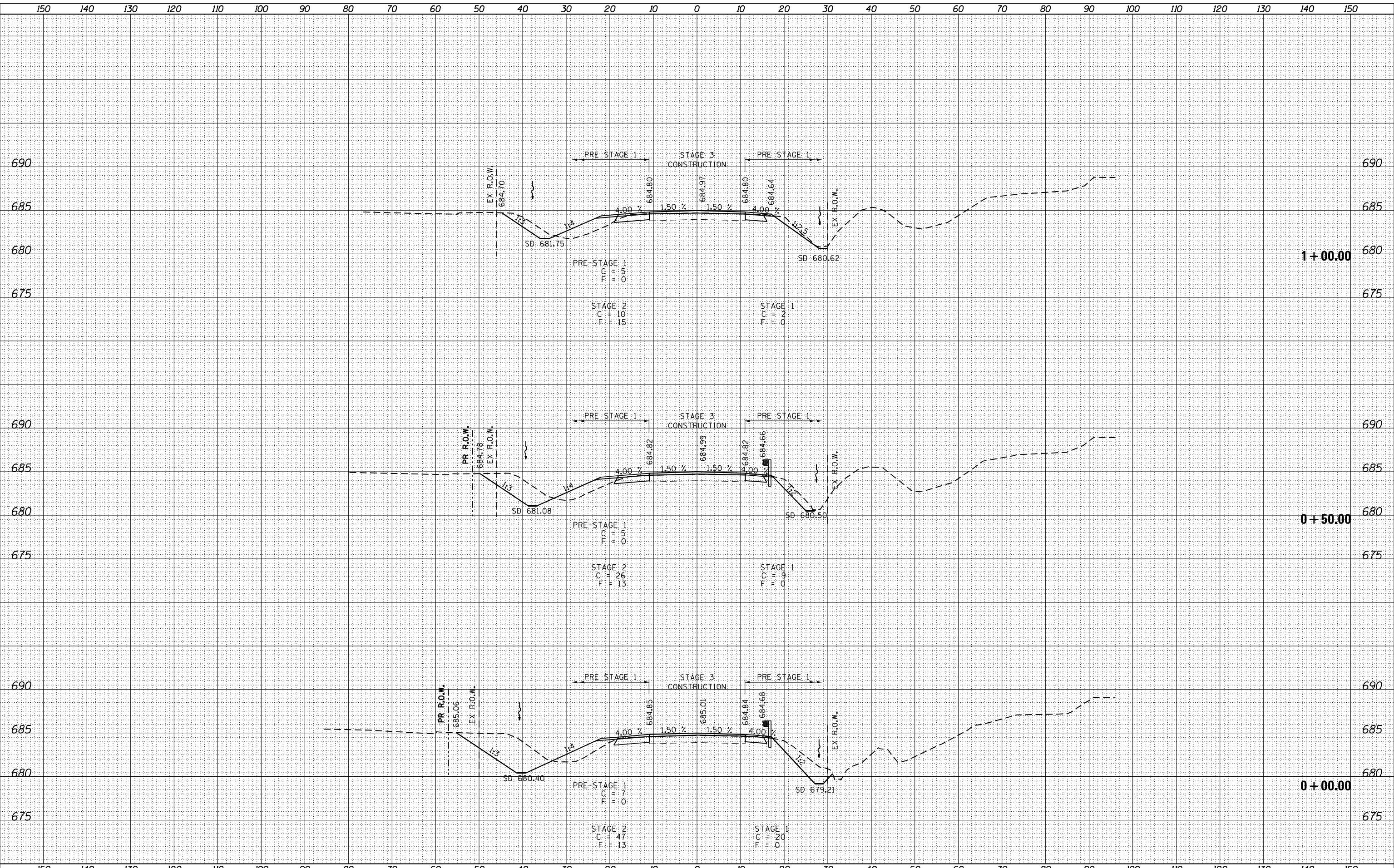
CROSS SECTIONS IL 16 SN 011-2513			
SCALE:	SHEET 5	OF 8 SHEETS	STA. 364+50.00 TO STA. 364+71.18

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	54
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
MONTGOMERY & CHRISTIAN				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

MODEL: D:\mch\...
 FILE NAME: W:\CHIEF\...
 NO. 18827\CD\Drawn SN 011-038 (0) 1-25 3\CAD\Sheet\067984-ent\sect25 13-002.dwg



USER NAME	= mescalet
PLOT SCALE	= 20,000000 ' / in.
PLOT DATE	= 5/3/2023

DESIGNED	-
DRAWN	- CFC
CHECKED	- MCB
DATE	-

REVISED	-
REVISED	-
REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
IL 16 SN 011-2513**

SCALE: SHEET 6 OF 8 SHEETS STA. 0+00.00 TO STA. 1+00.00

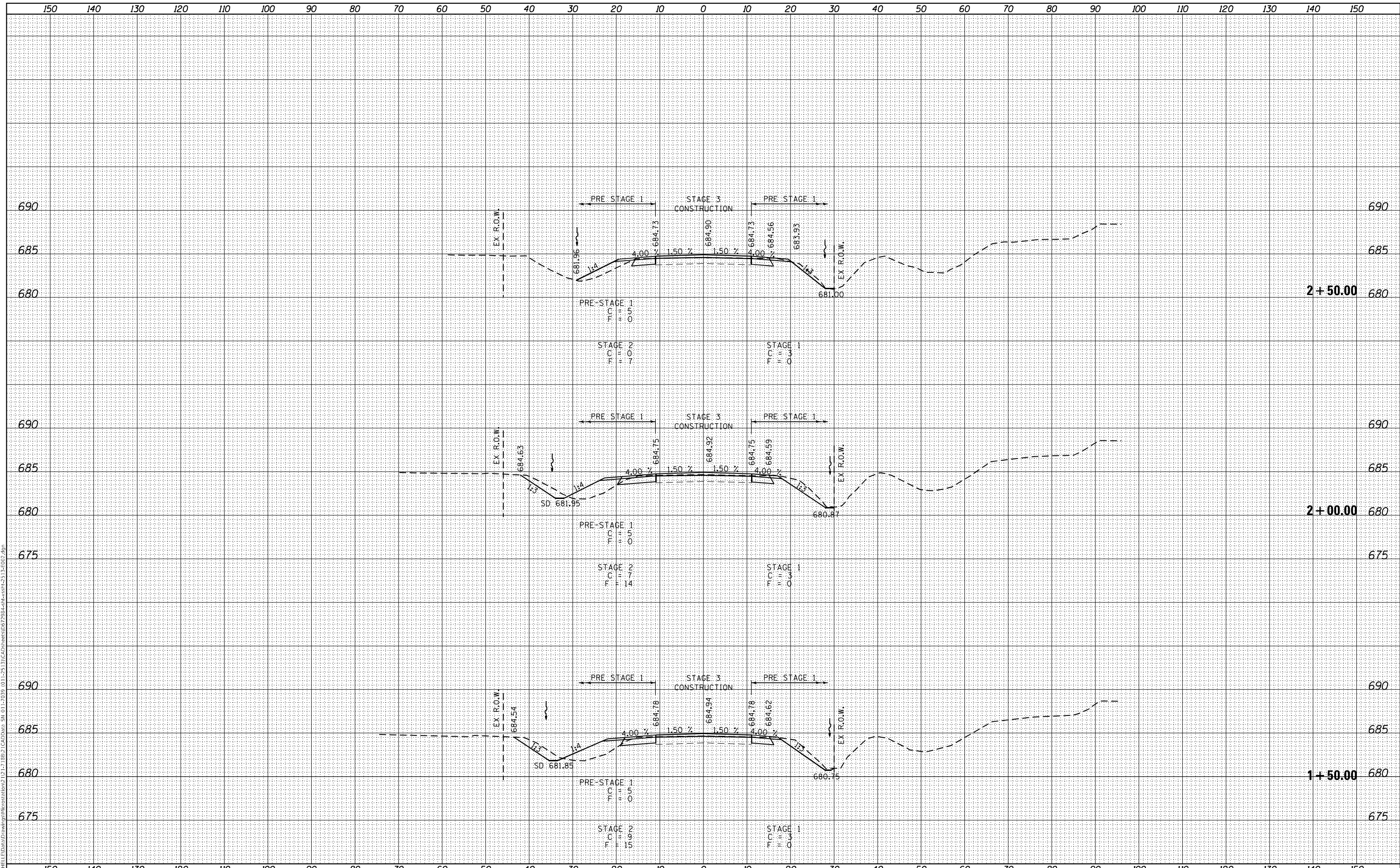
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	55
CONTRACT NO. 72984				

ILLINOIS FED. AID PROJECT
MONTGOMERY & CHRISTIAN

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

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

MODEL: Definit
 FILE NAME: W:\CHIEF\ED\Drawings\Illinois\16\16-25\16-25-31\CA\Sheet\067984-ent\sheet25 13-e02.dwg



USER NAME = mescatel
PLOT SCALE = 20,000/000' / in.
PLOT DATE = 5/3/2023

DESIGNED -	REVISD -
DRAWN - CFC	REVISD -
CHECKED - MCB	REVISD -
DATE -	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

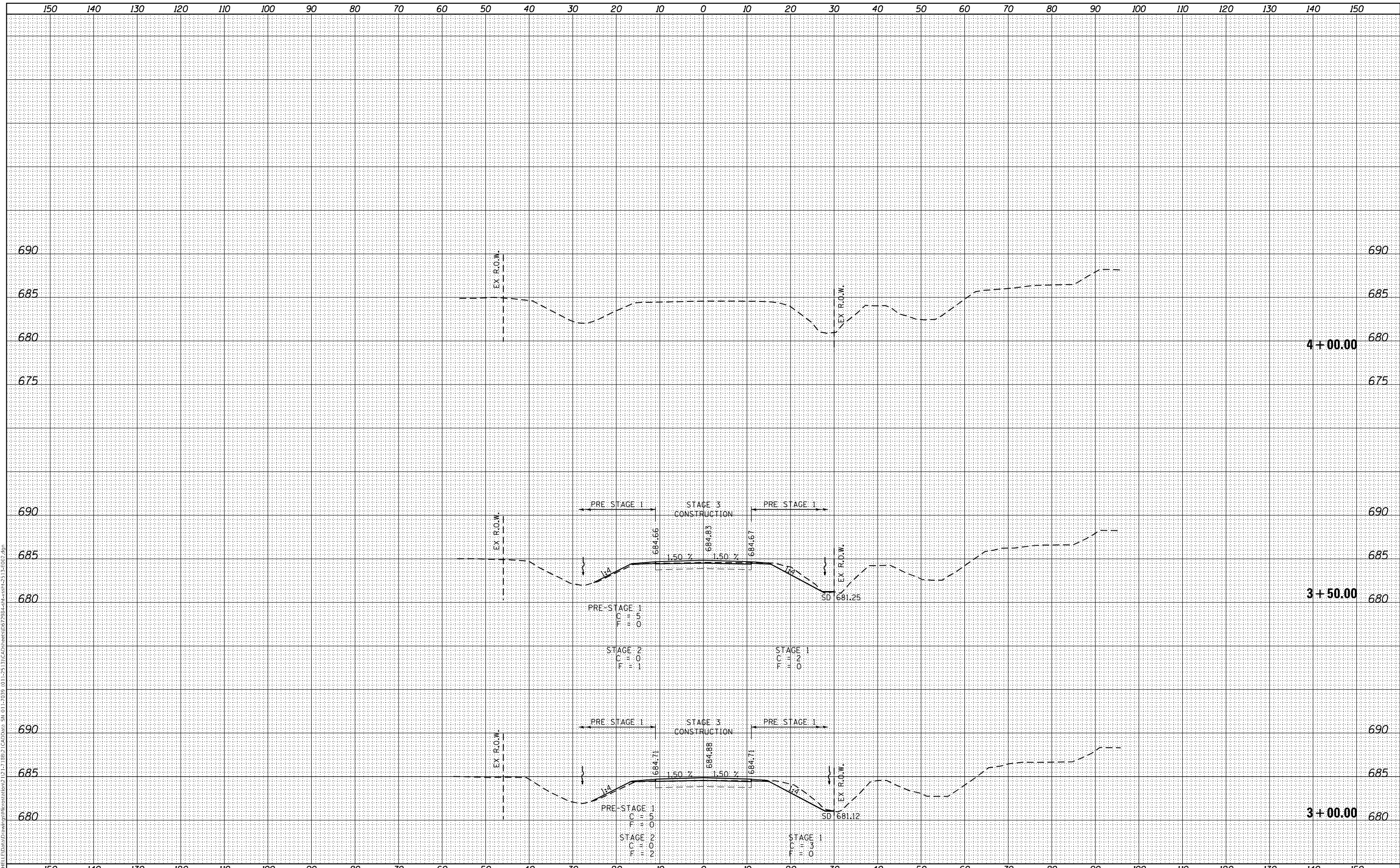
CROSS SECTIONS IL 16 SN 011-2513			
SCALE:	SHEET 7	OF 8 SHEETS	STA. 1+50.00 TO STA. 2+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	56
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
* MONTGOMERY & CHRISTIAN				

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

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

MODEL: Definit
 FILE NAME: W:\CHIEF\ED\Drawings\Restoration\17171-18B\7\CD\Draw SN 011-2513\CA\Sheet\067984-ent-ent2513-e02.dwg



USER NAME = mescatel
DESIGNED -
DRAWN - CFC
CHECKED - MCB
DATE -
PLOT SCALE = 20,000,000 ' / in.
PLOT DATE = 5/3/2023

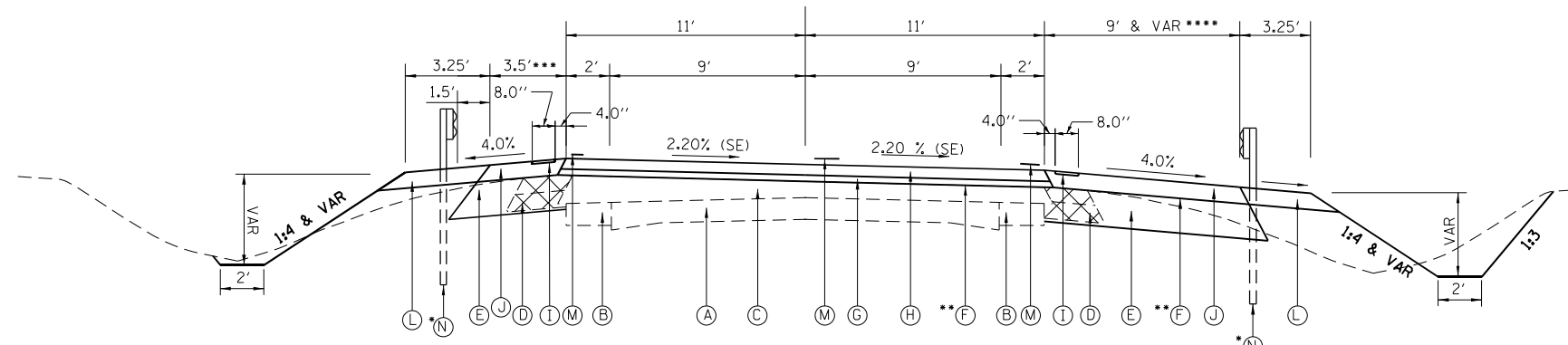
DESIGNED -	REVISED -
DRAWN - CFC	REVISED -
CHECKED - MCB	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 16 SN 011-2513**

SCALE: SHEET 8 OF 8 SHEETS STA. 3+00.00 TO STA. 4+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	57
CONTRACT NO. 72984				



FAP RTE 325 (IL 16)

*** 5.0' STA 38+29.51 TO 39+00.00
 TRANSITION 5' TO 3.5' STA 39+00.00 TO 39+50.00
 TRANSITION 3.5' TO 5' STA 44+00.00 TO 44+95.00

STA 38+29.51 TO 42+89.50 LT & RT
 STA 43+57.50 TO 44+95.00 LT

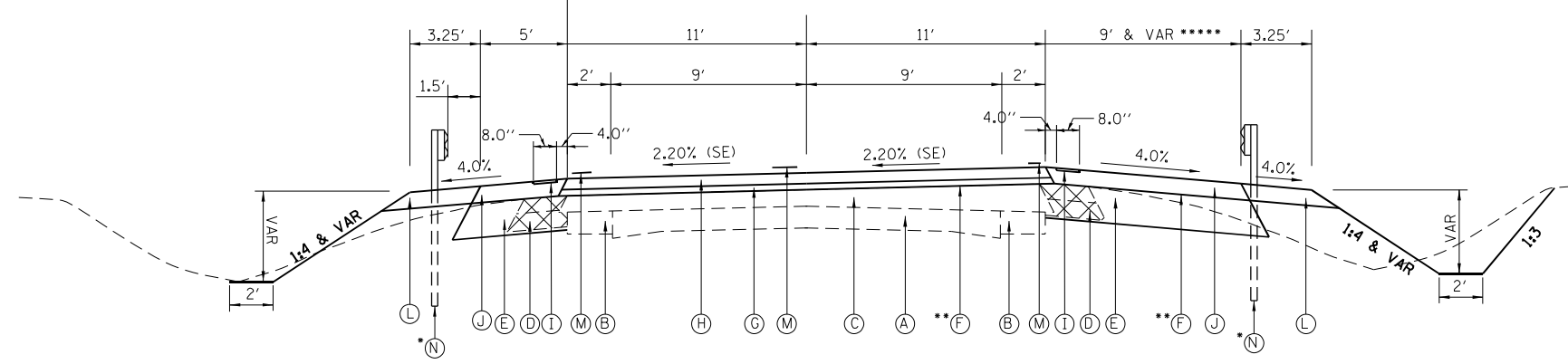
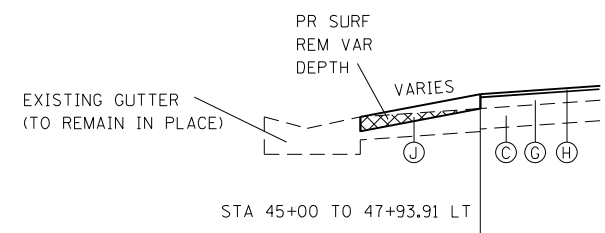
**** 5.0' sta. 38+29.51 TO STA 39+30.00
 TRANSITION 5.0' TO 9.0' STA 39+30.00 TO STA 40+30.00

* GUARDRAIL

STA 41+89.92 TO 42+89.50 LT & RT
 STA 43+57.50 TO 44+19.58 LT & RT

** STAGE I, LT STAGE II, RT

STA 42+00.00 TO 42+89.50
 STA 43+57.50 TO 44+50.00



FAP RTE 325 (IL 16)

STA 43+57.50 TO 47+93.91 RT
 STA 44+95.00 TO 47+93.91 LT

**** TRANSITION 9.0' TO 1.5' STA 45+72.50 TO STA 47+60.00

LEGEND

- (A) EX PCC PAVEMENT, 9-6-9
- (B) EX PCC BASE COURSE WIDENING, 8"
- (C) EX HMA SURFACE, 6"
- (D) EX HMA SHOULDERS, 8" & VARIES TBR
- (E) PR HMA BASE COURSE, 8"
- (F) PR HMA BINDER COURSE, IL-19.0, N50, VAR DEPTH
- (G) PR HMA BINDER COURSE IL-9.5 FG, N50, VAR DEPTH 1 1/4"
- (H) PR HMA SURFACE COURSE, MIX "C", N50, 1 1/2"
- (I) PR SHOULDER RUMBLE STRIPS, 8 INCH
- (J) PR HMA SHOULDERS, VAR DEPTH (2 3/4" MIN)
- (K) PR HMA SHOULDERS, 2 3/4"
- (L) PR AGGREGATE SHOULDERS, TYPE B
- (M) PR PAINT PAVEMENT MARKING LINE, 5"
- (N) PR STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- (O) PR STRONG POST GUARDRAIL, ATTACHED TO STRUCTURES
- (P) PR GRANULAR CULVERT BACKFILL
- (R) PR BASE COURSE (OPTION), 8"

MODEL: D:\p\h\...
 FILE NAME: W:\C\CHEL\ED\Drawings\Microstation\2112117188\CADD\sta_066-0017\0672984-16\typical-0505.dgn
 FEHR GRAHAM PROJECT NUMBER: 10005-2



USER NAME = mesca1	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

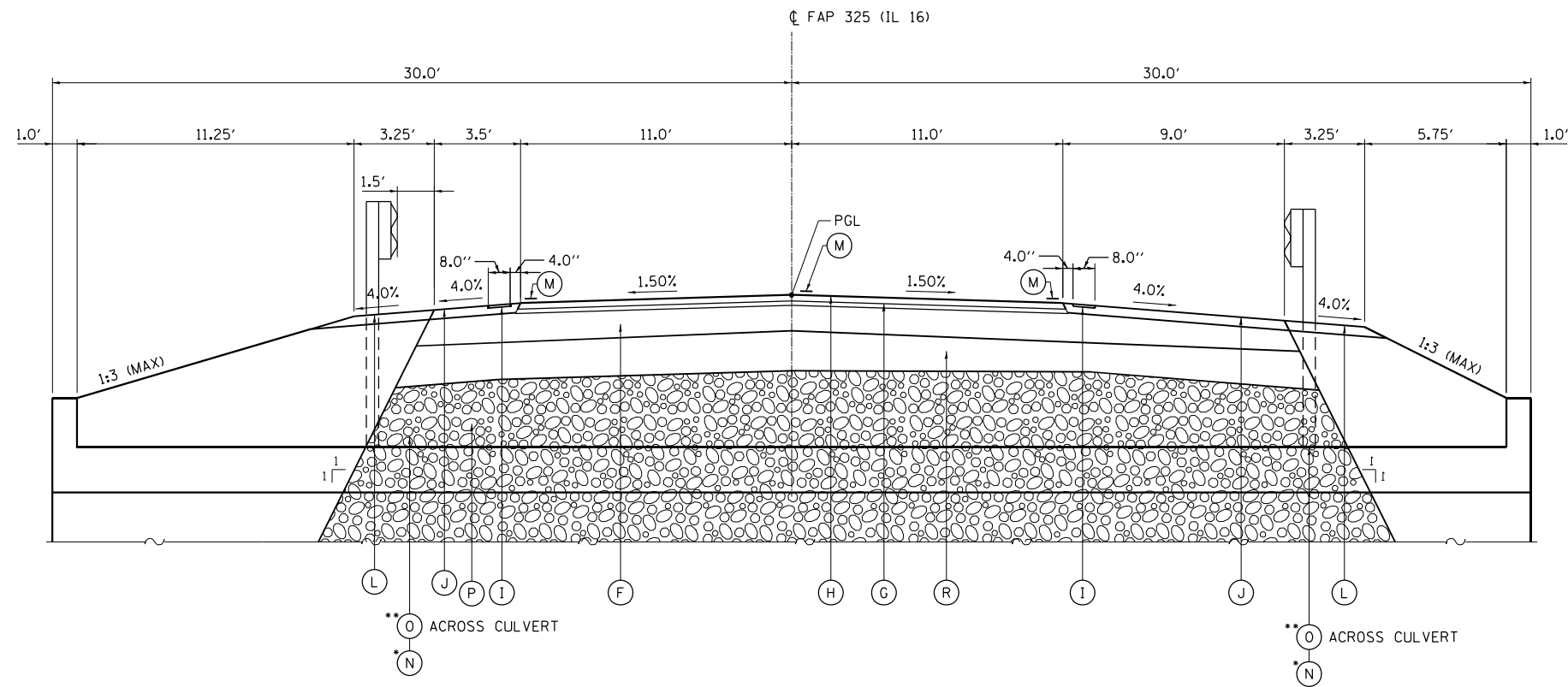
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
 IL 16 SN 068-2509

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	58
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

* MONTGOMERY & CHRISTIAN



FAP ROUTE 325 (IL 16)

STA 42+89.50 TO STA 43+57.50

* GUARDRAIL

STA LT & RT 42+89.50 TO 43+02.42
STA LT & RT 43+44.58 TO 43+57.50

** STA LT & RT 43+02.42 TO 43+44.58

LEGEND

- (A) EX PCC PAVEMENT, 9-6-9
- (B) EX PCC BASE COURSE WIDENING, 8"
- (C) EX HMA SURFACE, 6"
- (D) EX HMA SHOULDERS, 8" & VARIES
- (E) PR HMA BASE COURSE, 8"
- (F) PR HMA BINDER COURSE, IL-19.0, N50, VAR DEPTH
- (G) PR HMA BINDER COURSE IL-9.5 FG, N50, VAR DEPTH (3/4" MIN)
- (H) PR HMA SURFACE COURSE, MIX "C", N50, 1 1/2"
- (I) PR SHOULDER RUMBLE STRIPS, 8 INCH
- (J) PR HMA SHOULDERS, VAR DEPTH (2 3/4" MIN)
- (K) PR HMA SHOULDERS, 2 3/4"
- (L) PR AGGREGATE SHOULDERS, TYPE B
- (M) PR PAINT PAVEMENT MARKING LINE, 5"
- (N) PR STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS
- (O) PR STRONG POST GUARDRAIL, ATTACHED TO CULVERT
- (P) PR GRANULAR CULVERT BACKFILL
- (R) PR BASE COURSE (OPTION), 8"

MODEL: D:\p\h\...
 FILE NAME: W:\C\CHEL\ED\Drawings\Microstation\3112117188\CADD\325_S1_068-0017\068-2509-16-11\typical-0505.dgn



USER NAME = mescahl	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 */ in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -





STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

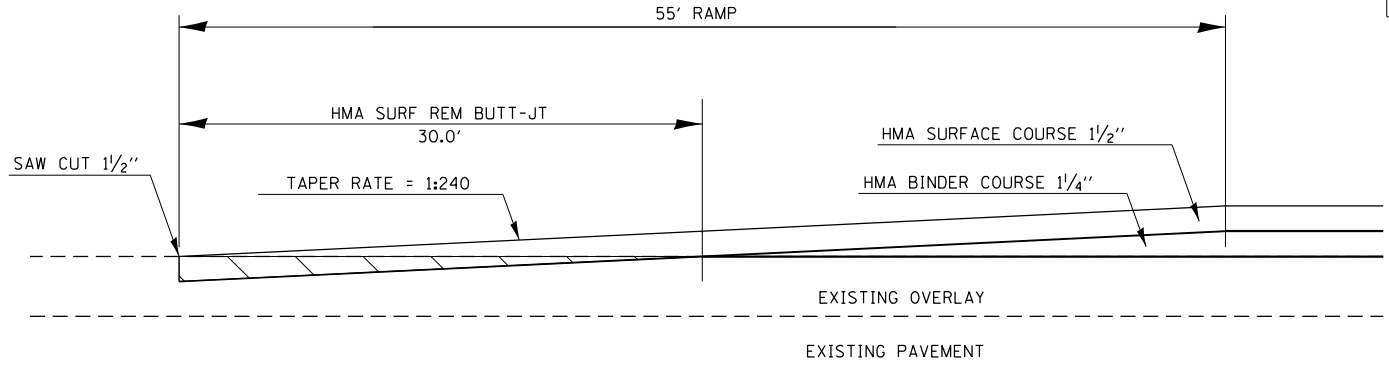
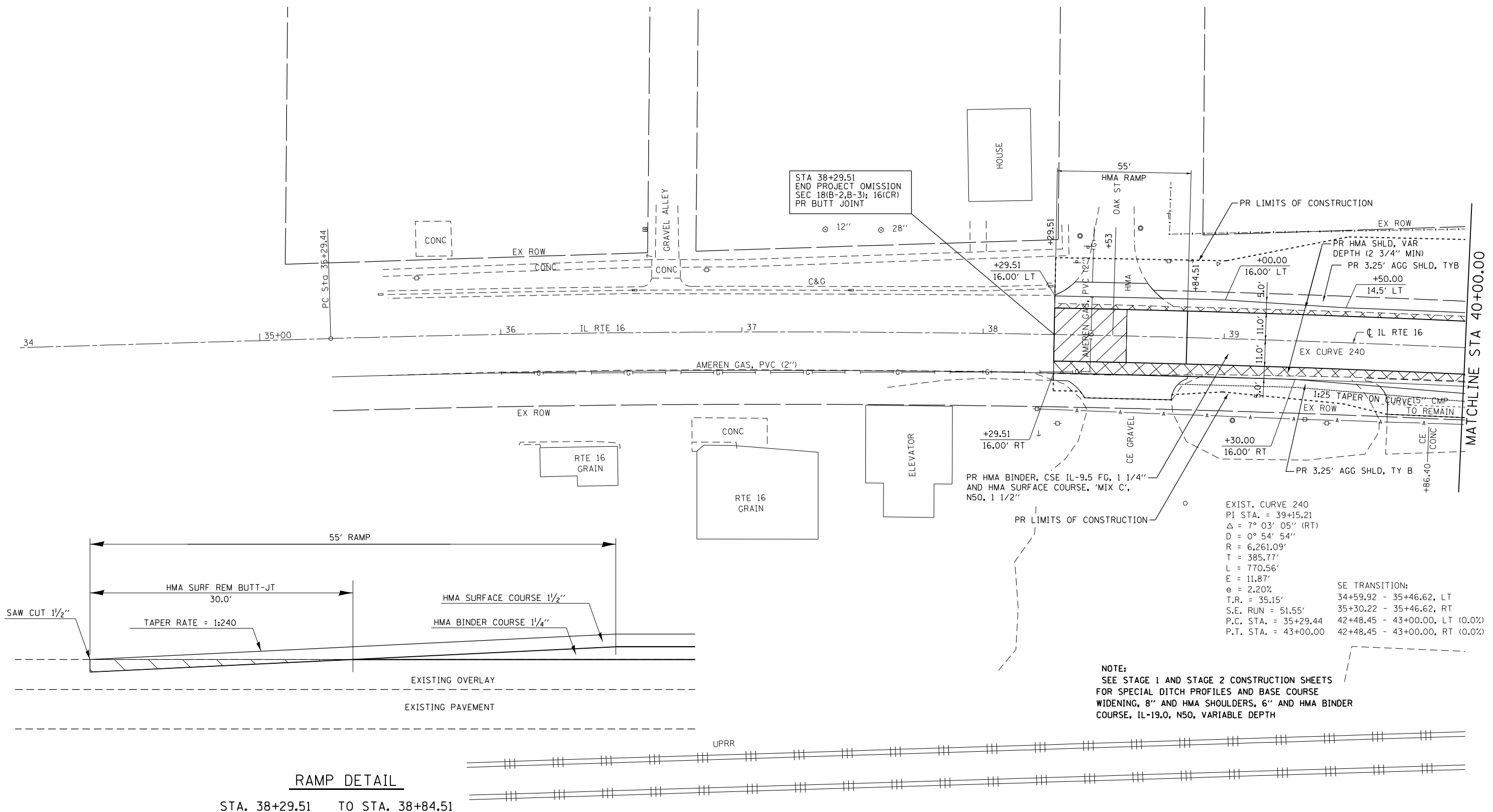
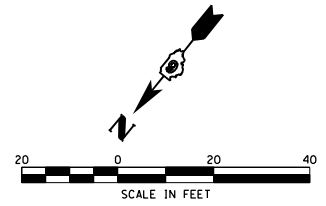
TYPICAL SECTIONS
IL 16 SN 068-2509

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	59
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

LEGEND

-  PR HMA SURFACE REMOVAL - BUTT JOINT
-  PR PAVED SHOULDER REMOVAL
-  PR HMA SURFACE REMOVAL, VARIABLE DEPTH
-  PR PAVEMENT REMOVAL



RAMP DETAIL

STA. 38+29.51 TO STA. 38+84.51

EXIST. CURVE 240
 PI STA. = 39+15.21
 $\Delta = 7^\circ 03' 05''$ (RT)
 $D = 0^\circ 54' 54''$
 $R = 6,261.09'$
 $T = 385.77'$
 $L = 770.56'$
 $E = 11.87'$
 $e = 2.20\%$
 T.R. = 35.15'
 S.E. RUN = 51.55'
 P.C. STA. = 35+29.44
 P.T. STA. = 43+00.00

SE TRANSITION:
 34+59.92 - 35+46.62, LT
 35+30.22 - 35+46.62, RT
 42+48.45 - 43+00.00, LT (0.0%)
 42+48.45 - 43+00.00, RT (0.0%)

NOTE:
 SEE STAGE 1 AND STAGE 2 CONSTRUCTION SHEETS FOR SPECIAL DITCH PROFILES AND BASE COURSE WIDENING, 8" AND HMA SHOULDERS, 6" AND HMA BINDER COURSE, IL-19.0, N50, VARIABLE DEPTH

MODEL: D:\p\h\...
 FILE NAME: W:\CHEL\ED\Drawings\Microstation\2112\1718B\CADD\Drawings\068-0017\068-0017-18B\CADD\Drawings\068-0017-18B\068-0017-18B-0509-001.dgn



USER NAME = mescaat	DESIGNED -	REVISED -
DRAWN - CFC	REVISOR -	REVISION -
PLOT SCALE = 40,000,000 * / in.	CHECKED - MCB	REVISOR -
PLOT DATE = 5/1/2023	DATE -	REVISION -

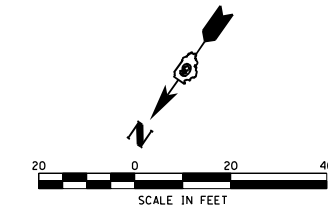
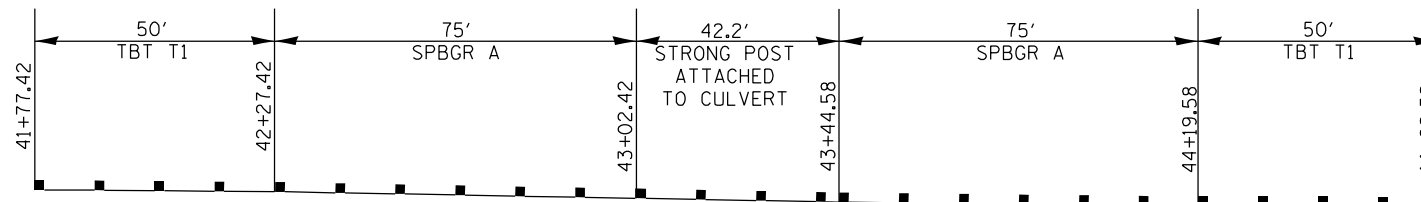
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN	
IL 16 SN 068-2509	
SCALE:	SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	-	142	60
CONTRACT NO. 72984				

LEGEND

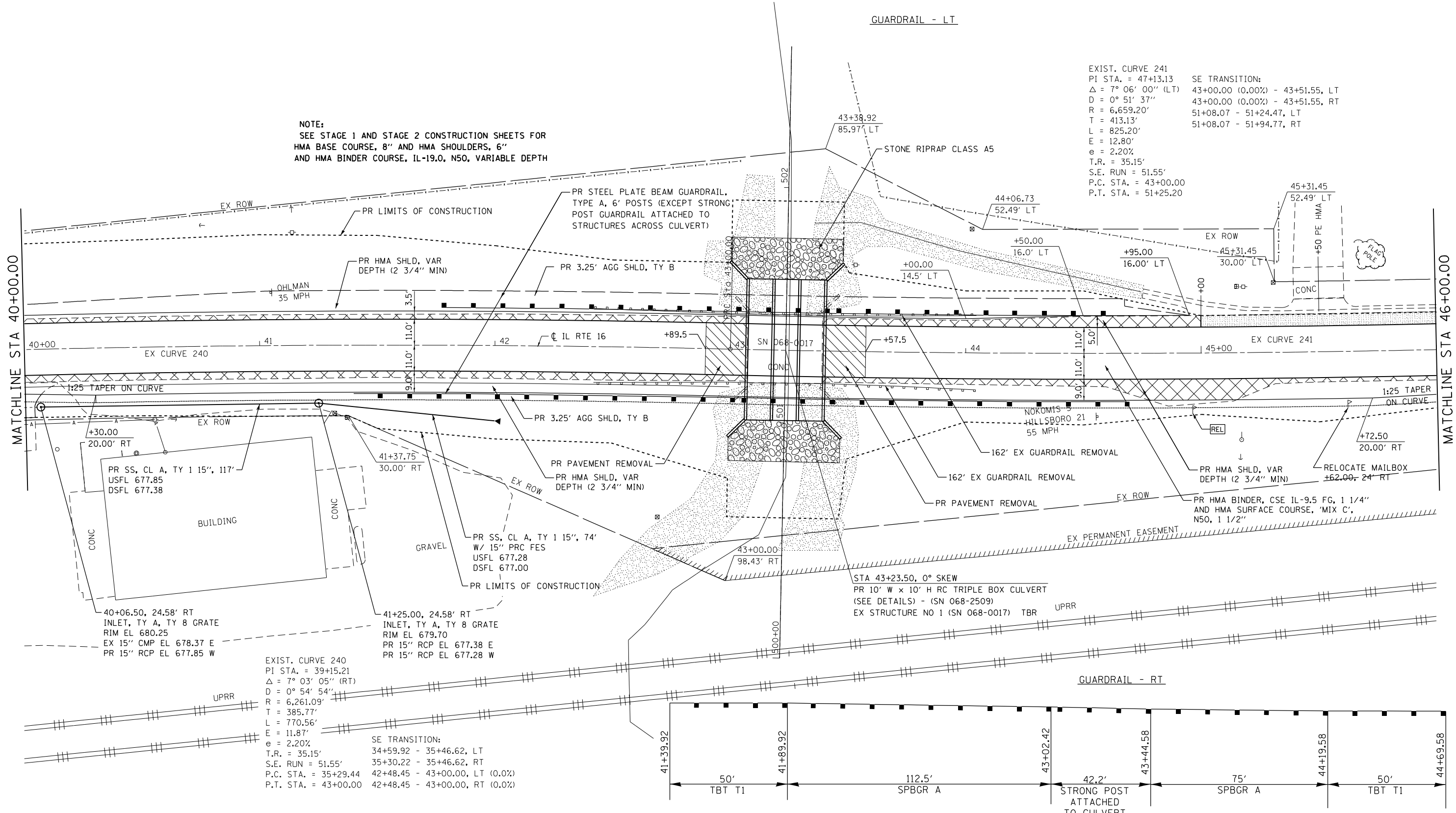
- PR HMA SURFACE REMOVAL - BUTT JOINT
- PR PAVED SHOULDER REMOVAL
- PR HMA SURFACE REMOVAL, VARIABLE DEPTH
- PR PAVEMENT REMOVAL



NOTE:
SEE STAGE 1 AND STAGE 2 CONSTRUCTION SHEETS FOR
HMA BASE COURSE, 8" AND HMA SHOULDERS, 6"
AND HMA BINDER COURSE, 1L-19.0, N50, VARIABLE DEPTH

EXIST. CURVE 241
PI STA. = 47+13.13
Δ = 7° 06' 00" (LT)
D = 0° 51' 37"
R = 6,659.20'
T = 413.13'
L = 825.20'
E = 12.80'
e = 2.20%
T.R. = 35.15'
S.E. RUN = 51.55'
P.C. STA. = 43+00.00
P.T. STA. = 51+25.20

SE TRANSITION:
43+00.00 (0.00%) - 43+51.55, LT
43+00.00 (0.00%) - 43+51.55, RT
51+08.07 - 51+24.47, LT
51+08.07 - 51+94.77, RT



EXIST. CURVE 240
PI STA. = 39+15.21
Δ = 7° 03' 05" (RT)
D = 0° 54' 54"
R = 6,261.09'
T = 385.77'
L = 770.56'
E = 11.87'
e = 2.20%
T.R. = 35.15'
S.E. RUN = 51.55'
P.C. STA. = 35+29.44
P.T. STA. = 43+00.00

SE TRANSITION:
34+59.92 - 35+46.62, LT
35+30.22 - 35+46.62, RT
42+48.45 - 43+00.00, LT (0.0%)
42+48.45 - 43+00.00, RT (0.0%)

STA 43+23.50, 0° SKEW
PR 10' W x 10' H RC TRIPLE BOX CULVERT
(SEE DETAILS) - (SN 068-2509)
EX STRUCTURE NO 1 (SN 068-0017) TBR UPRR

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN
IL 16 SN 068-2509
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	61
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

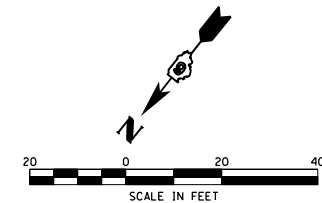


USER NAME = mescaat	DESIGNED -	REVISED -
PLOT SCALE = 40,000/000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/11/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

* MONTGOMERY & CHRISTIAN

LEGEND

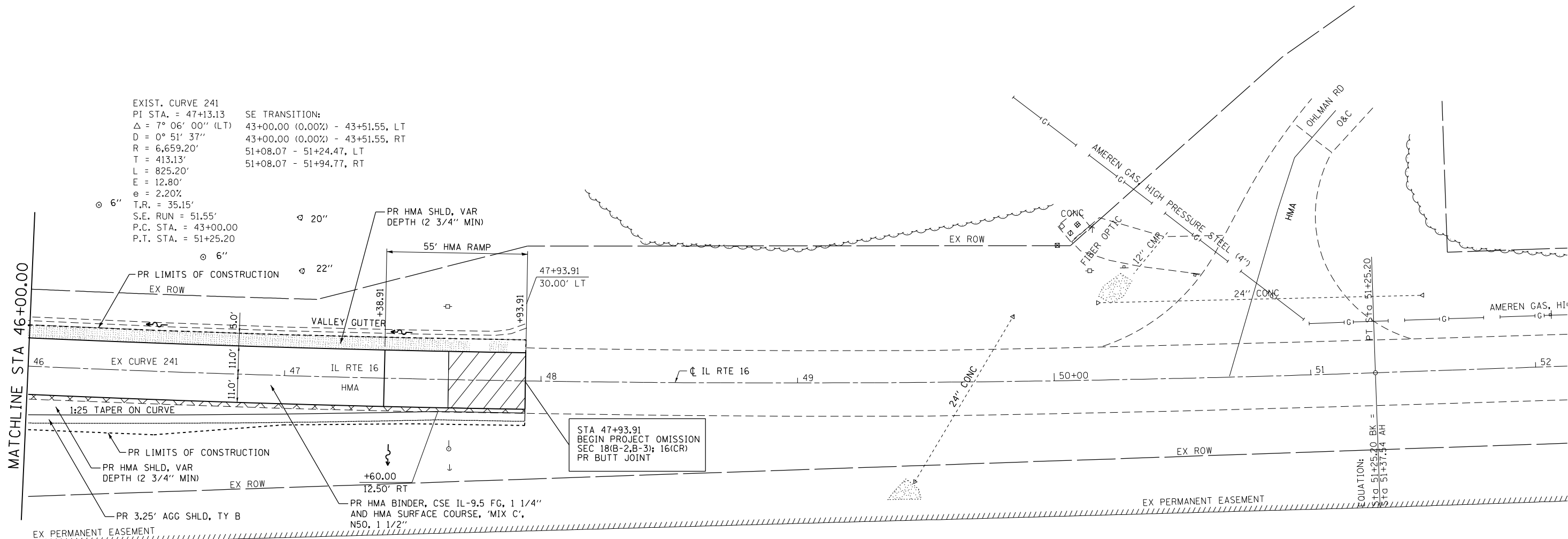
-  PR HMA SURFACE REMOVAL - BUTT JOINT
-  PR PAVED SHOULDER REMOVAL
-  PR HMA SURFACE REMOVAL, VARIABLE DEPTH
-  PR PAVEMENT REMOVAL



EXIST. CURVE 241
 PI STA. = 47+13.13
 $\Delta = 7^\circ 06' 00''$ (LT) 43+00.00 (0.00%) - 43+51.55, LT
 $D = 0^\circ 51' 37''$ 43+00.00 (0.00%) - 43+51.55, RT
 $R = 6,659.20'$ 51+08.07 - 51+24.47, LT
 $T = 413.13'$ 51+08.07 - 51+94.77, RT
 $L = 825.20'$
 $E = 12.80'$
 $e = 2.20\%$

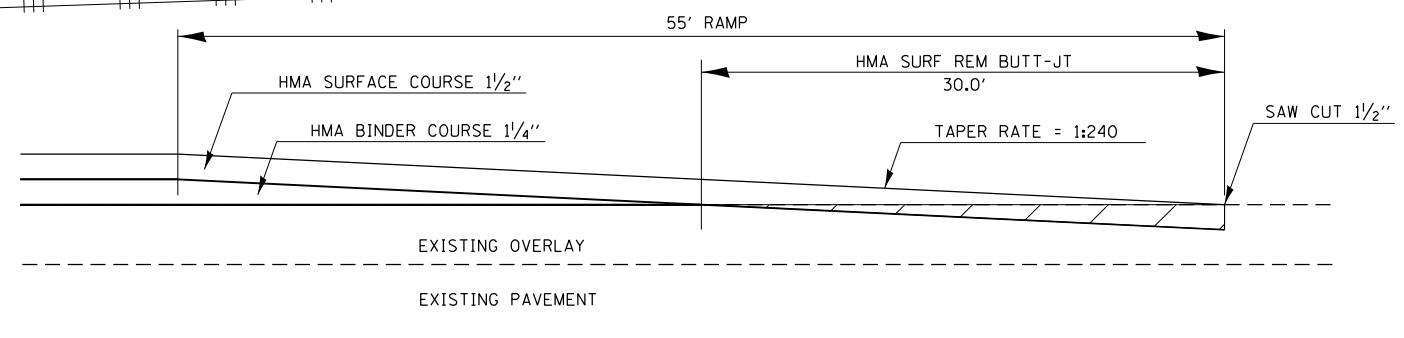
$\odot 6''$ T.R. = 35.15'
 S.E. RUN = 51.55'
 P.C. STA. = 43+00.00
 P.T. STA. = 51+25.20

SE TRANSITION:
 43+00.00 (0.00%) - 43+51.55, LT
 43+00.00 (0.00%) - 43+51.55, RT
 51+08.07 - 51+24.47, LT
 51+08.07 - 51+94.77, RT



STA 47+93.91
 BEGIN PROJECT OMISSION
 SEC 18(B-2, B-3); 16(CR)
 PR BUTT JOINT

NOTE:
 SEE STAGE 1 AND STAGE 2 CONSTRUCTION SHEETS FOR
 HMA BASE COURSE, 8" AND HMA SHOULDERS, 6"
 AND HMA BINDER COURSE, IL-19.0, N50, VARIABLE DEPTH



RAMP DETAIL
 STA. 47+38.91 TO STA. 47+93.91

MODEL: D:\p\h...
 FILE NAME: W:\CHEL\ED\Drawings\Microstation\2112\171881\CADD\DATA SN_0656-0017\6572984-44r\plan-0509-003.dgn



USER NAME = mescaet	DESIGNED -	REVISED -
PLOT SCALE = 40,000/000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/11/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

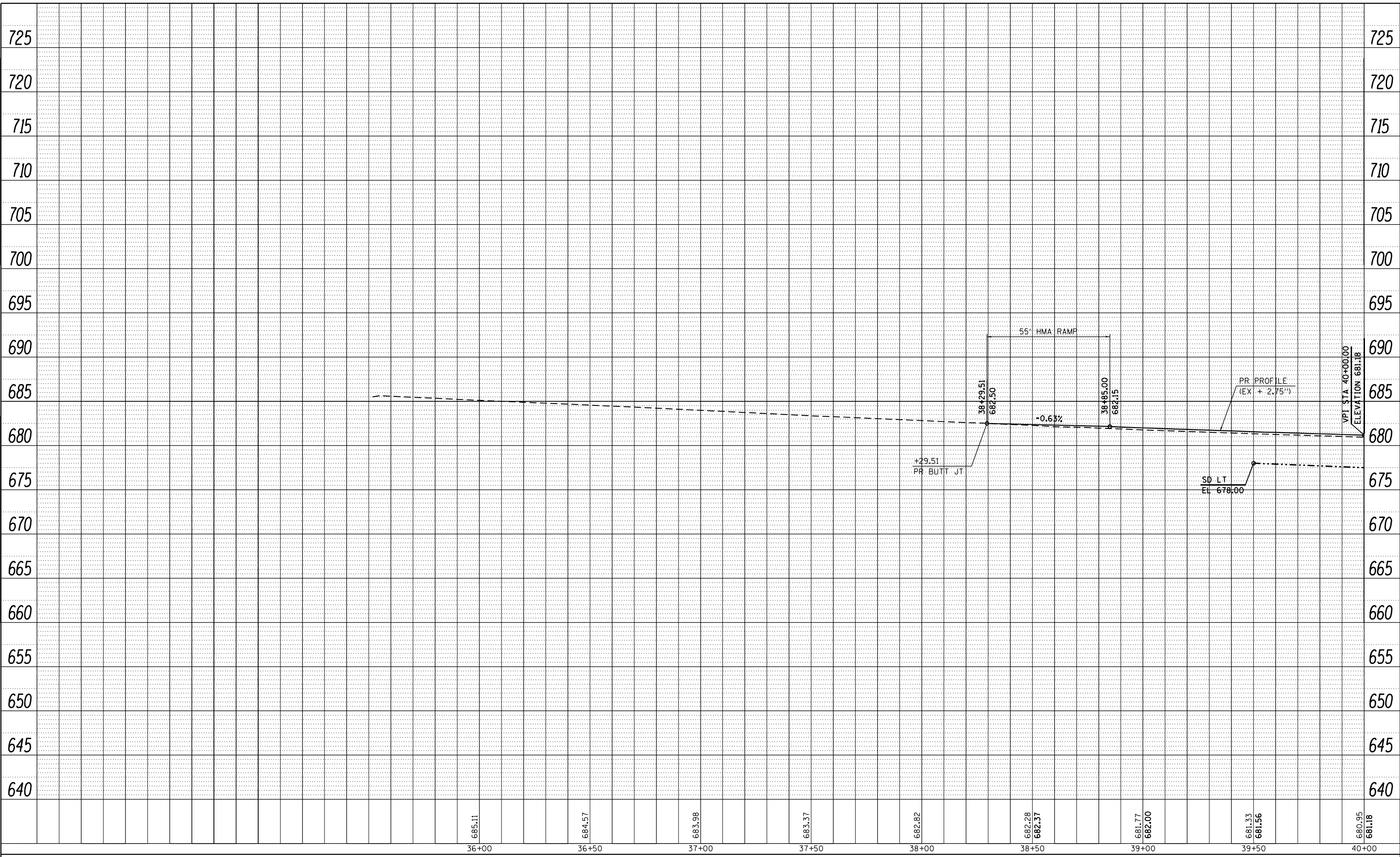
PLAN			
IL 16 SN 068-2509			
SCALE:	SHEET 3	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	-	142	62
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

MODEL: Default
FILE NAME: W:\CCH\EL\Drawings\Microstation\1121-1718B\CADD\Basis SN 068-001\Profile-2509-001.dgn



FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525
FEHR GRAHAM PROJECT NUMBER: 10005-2

USER NAME = mescaiel
PLOT SCALE = 40,000/600 ' / in.
PLOT DATE = 5/1/2023

DESIGNED -	REVISED -
DRAWN - CFC	REVISED -
CHECKED - MCB	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

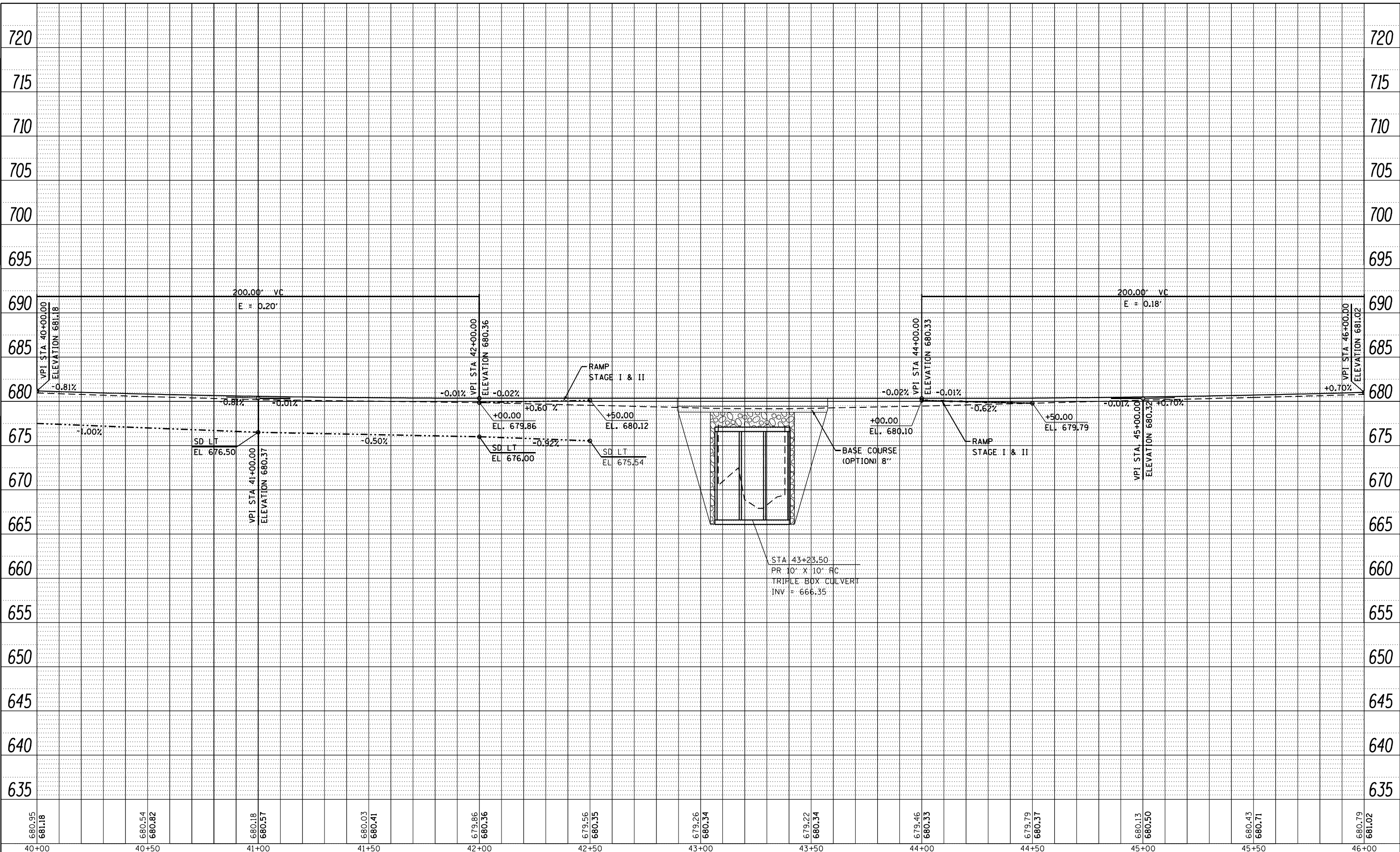
PROFILE			
IL 16 SN 068-2509			
SCALE:	SHEET 1	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	63
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
MONTGOMERY & CHRISTIAN				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS UPWD		
	NO.		

MODEL: Default
 FILE NAME: W:\CCH\EL\Drawings\Microstation\1121-1718B\CAD\Basis SN 068-001\Profile2798a.dgn
 PROFILE=0509-002.dgn



680.95 681.18	680.54 680.82	680.18 680.57	680.03 680.41	679.86 680.36	679.56 680.35	679.26 680.34	679.22 680.34	679.46 680.33	679.79 680.37	680.13 680.50	680.43 680.71	680.79 681.02
40+00	40+50	41+00	41+50	42+00	42+50	43+00	43+50	44+00	44+50	45+00	45+50	46+00

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525	USER NAME = mescaiel	DESIGNED -	REVISED -
	PLOT SCALE = 40,000/000' / in.	DRAWN - CFC	REVISED -
	PLOT DATE = 5/1/2023	CHECKED - MCB	REVISED -
		DATE -	REVISED -

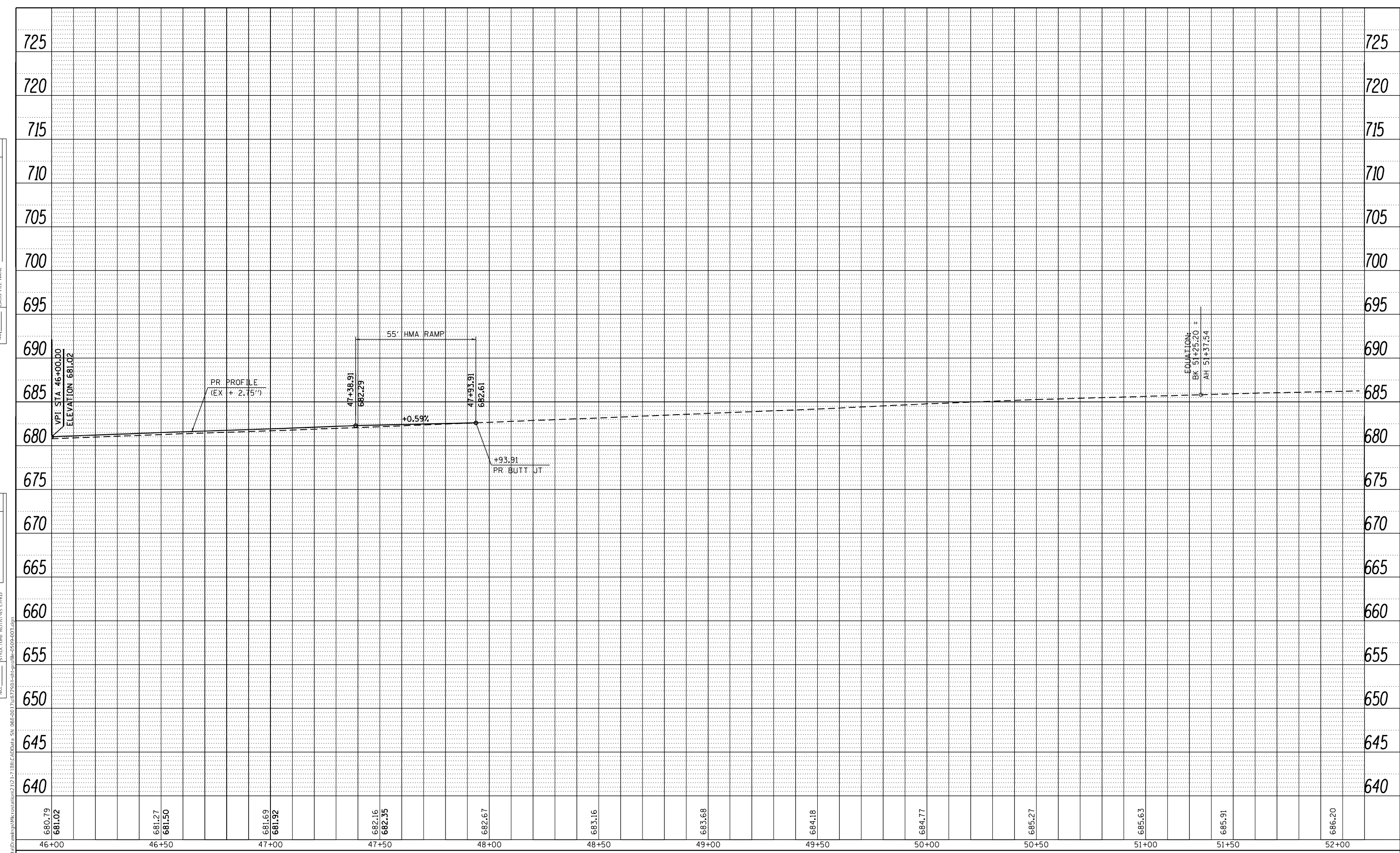
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROFILE			
IL 16 SN 068-2509			
SCALE:	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	64
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	
* MONTGOMERY & CHRISTIAN				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		



FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525
FEHR GRAHAM PROJECT NUMBER: 10005-2

USER NAME = mescaiel
PLOT SCALE = 40,000000 ' / in.
PLOT DATE = 5/1/2023

DESIGNED -	REVISED -
DRAWN - CFC	REVISED -
CHECKED - MCB	REVISED -
DATE -	REVISED -












DESIGNED -	REVISED -
DRAWN - CFC	REVISED -
CHECKED - MCB	REVISED -
DATE -	REVISED -

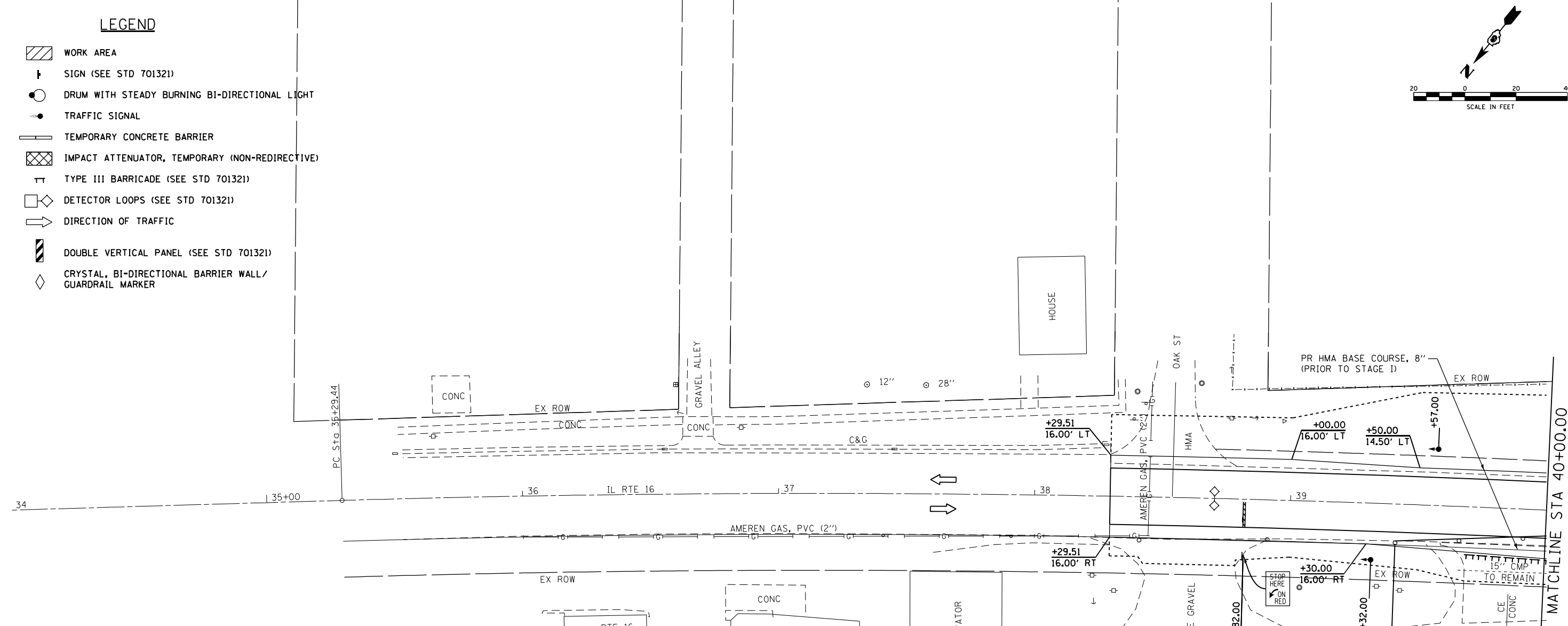
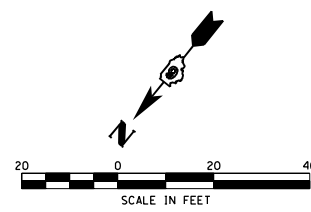
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROFILE			
IL 16 SN 068-2509			
SCALE:	SHEET 3	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	65
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
* MONTGOMERY & CHRISTIAN				

LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER



SEQUENCE OF CONSTRUCTION

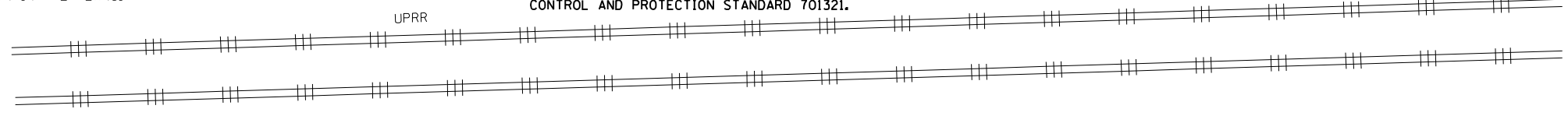
- PRE-STAGE I**
1. INSTALL ALL NECESSARY ITEMS IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701326 TO CONSTRUCT WIDENING.
 2. INSTALL TEMPORARY EROSION CONTROL AS SHOWN IN THE PLANS AS NECESSARY DURING ALL STAGES OF CONSTRUCTION.
 3. CONSTRUCT HOT-MIX ASPHALT BASE COURSE, 8" LEFT AND RIGHT OF THE CENTERLINE
- STAGE I**
1. INSTALL STAGE I TRAFFIC CONTROL AND PROTECTION AS DETAILED IN THE PLANS AND ACCORDING TO STANDARD 701321. ALSO PLACE TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
 2. PLACE TRAFFIC IN STAGE I LANE.
 3. INSTALL TEMPORARY SOIL RETENTION SYSTEM. REMOVE STAGE I PORTION OF THE EXISTING PAVEMENT, STRUCTURE AND GUARDRAIL.
 4. CONSTRUCT STAGE I PORTION OF THE PROPOSED BOX CULVERT AND PAVEMENT.
 5. INSTALL PROPOSED GUARDRAIL AND TERMINALS ON THE RIGHT SIDE AS SHOWN IN THE PLANS.

NOTE A

REMAINDER OF SIGNING ACCORDING TO STANDARD 701321 TEMPORARY RUMBLE STRIPS WILL BE USED AND PLACED ACCORDING TO STANDARD 701321. ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

GENERAL NOTES












1. THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321 AND AS DIRECTED BY THE ENGINEER.
2. VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, DETECTOR LOOPS, TEMPORARY PAVEMENT MARKINGS, AND TYPE C BIDIRECTIONAL REFLECTORS SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321.
3. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 BUREAU OF OPERATIONS (PH: (217) 785-5306) AT LEAST SEVEN DAYS PRIOR TO IMPLEMENTING ANY STAGE I TRAFFIC CONTROL AND AT LEAST SEVEN DAYS PRIOR TO IMPLEMENTING STAGE II TRAFFIC CONTROL.
4. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 BUREAU OF OPERATIONS (PH: ((217) 785-5306) AT LEAST THREE DAYS PRIOR TO ACTIVATING THE TEMPORARY TRAFFIC SIGNALS.

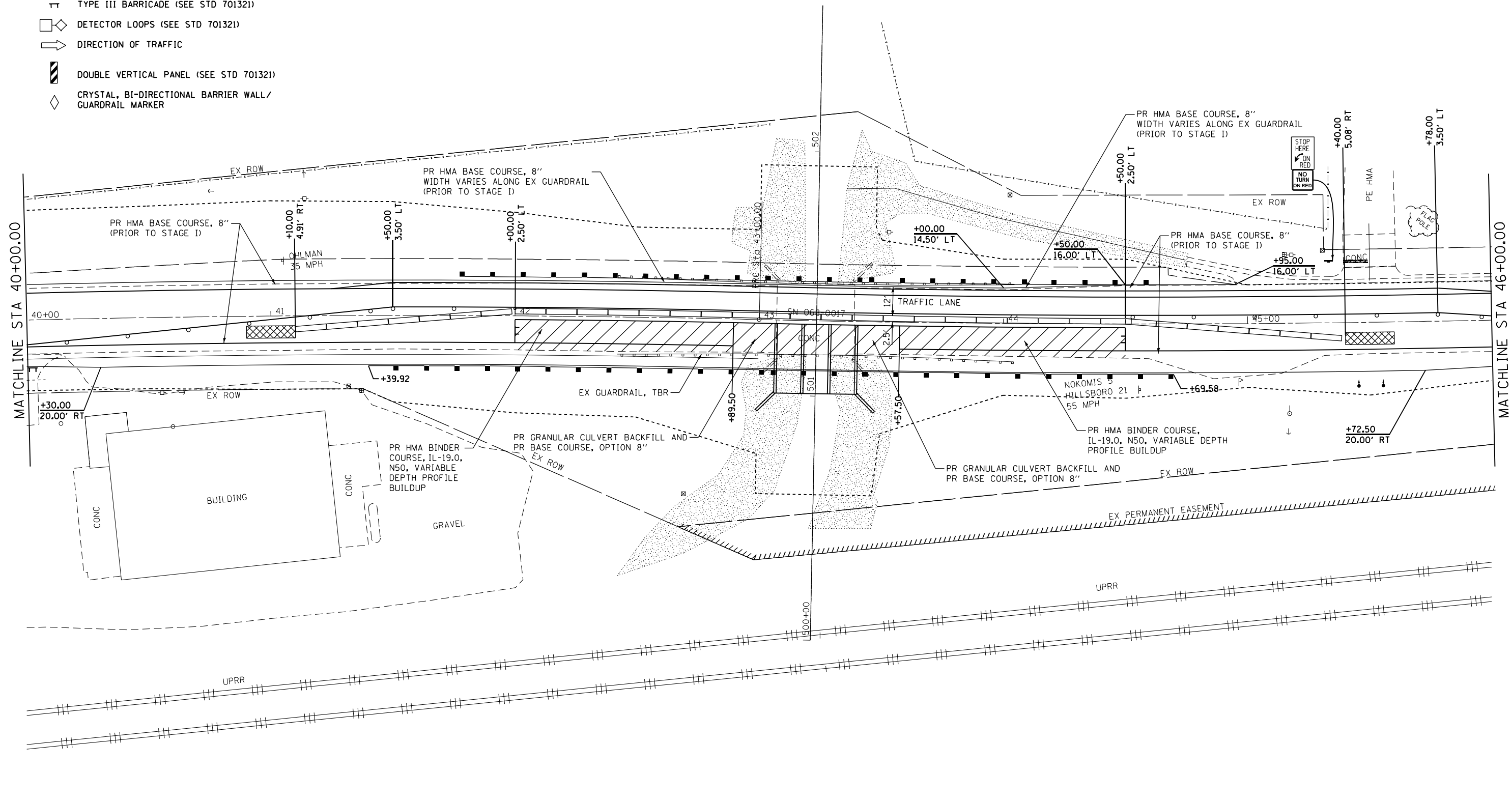
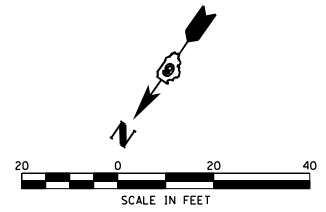


MODEL: D:\p\h\... FILE NAME: W:\CHEL\ED\DATA\Drawings\Microstation\2117-1-18\CAD\DATA SN_065-0017\0672984-4-18\cadd\plan-059-001.dgn
 FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525
 FEHR GRAHAM PROJECT NUMBER: 10005-2

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525	USER NAME = mescaat1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE I TRAFFIC CONTROL IL 16 SN 068-2509	F.A.P. RTE. = 325	SECTION = 18(B-2, B-3); 16(CR)	COUNTY =	TOTAL SHEETS = 142	SHEET NO. = 66
	PLOT SCALE = 40,000/000' / in.	CHECKED - MCB	REVISED -			SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.	CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT
	PLOT DATE = 5/9/2023	DATE -	REVISED -			ILLINOIS FED. AID PROJECT			* MONTGOMERY & CHRISTIAN	

LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER














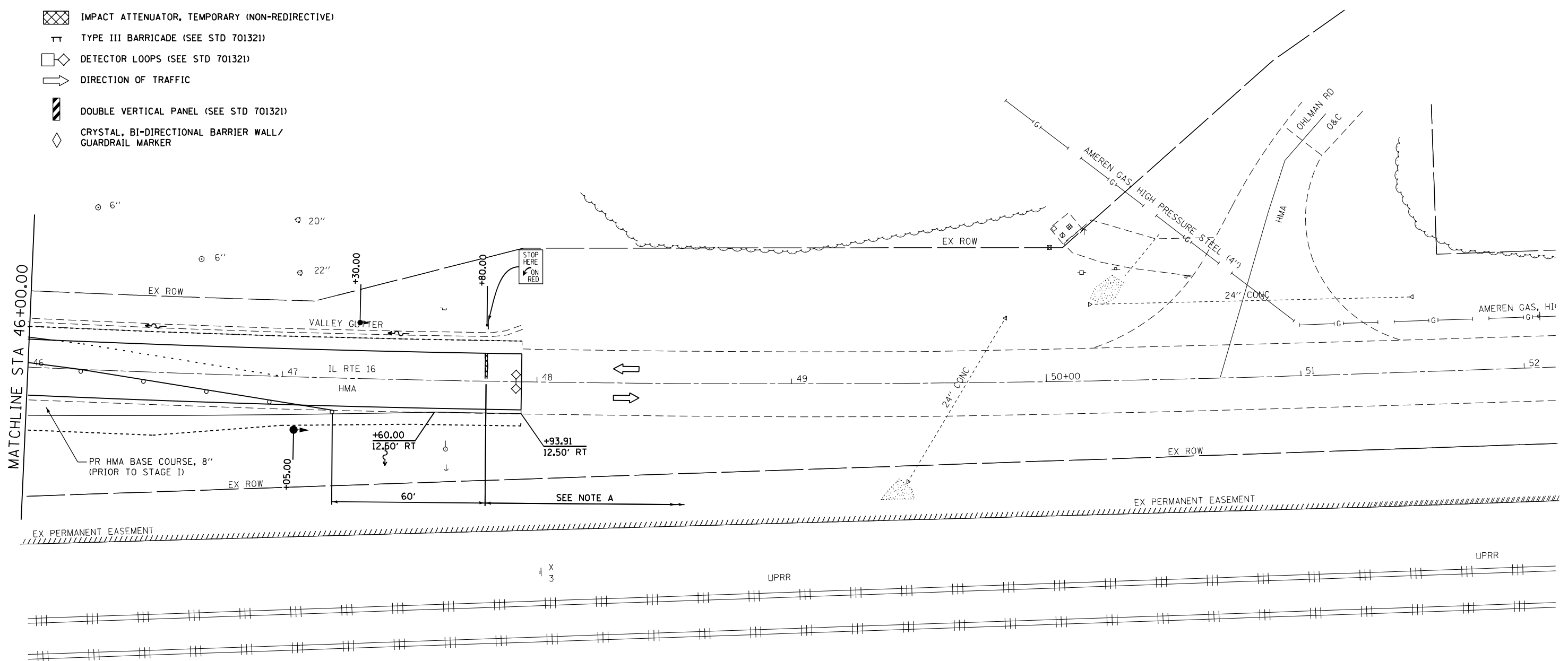
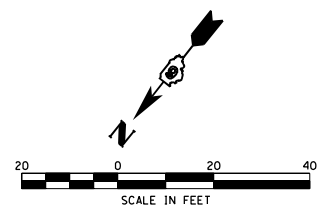
MODEL Path: \\...
 FILE NAME: \\...
 FEHR GRAHAM PROJECT NUMBER: 10005-2

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525	USER NAME = mescaite1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE I TRAFFIC CONTROL IL 16 SN 068-2509	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40,000/000' / 1" = 1/40000	CHECKED - MCB	REVISED -			REVISED -	325	18(B-2, B-3); 16(CR)	-	142	67
	PLOT DATE = 5/9/2023	DATE -	REVISED -			REVISED -	CONTRACT NO. 72984				

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT MONTGOMERY & CHRISTIAN

LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER



NOTE A

REMAINDER OF SIGNING ACCORDING TO STANDARD 701321
 TEMPORARY RUMBLE STRIPS WILL BE USED AND PLACED
 ACCORDING TO STANDARD 701321.
 ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING
 TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC
 CONTROL AND PROTECTION STANDARD 701321.

MODEL Path: \\...
 FILE NAME: \\...
 FEHR GRAHAM PROJECT NUMBER: 10005-2



USER NAME = mesca1	DESIGNED -	REVISED -
PLOT SCALE = 40,000/000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**












**STAGE I TRAFFIC CONTROL
 IL 16 SN 068-2509**

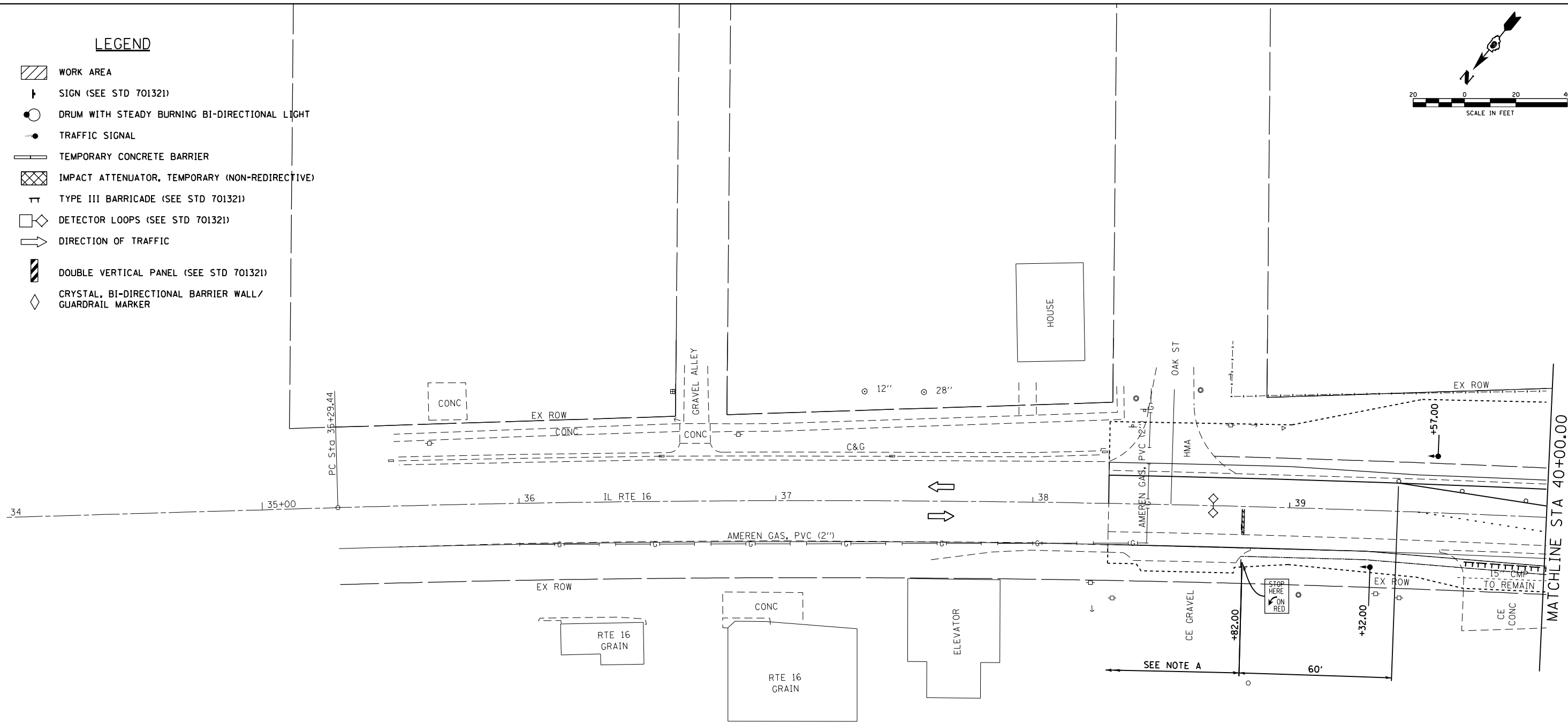
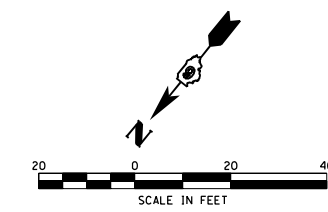
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	68
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72984	

© MONTGOMERY & CHRISTIAN

LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER



SEQUENCE OF CONSTRUCTION

STAGE II

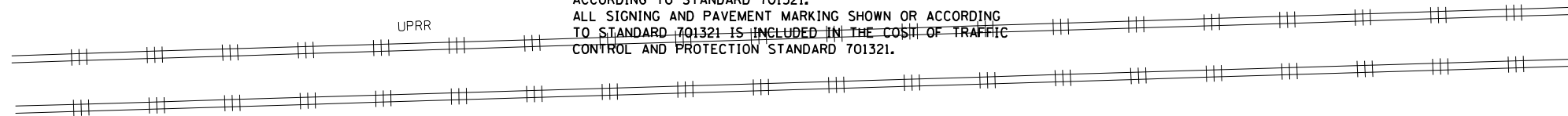
1. RELOCATE TEMPORARY CONCRETE BARRIER AND OTHER TRAFFIC CONTROL ITEMS IN ACCORDANCE WITH STANDARD 701321 AND STAGE II TRAFFIC CONTROL DETAILS.
2. PLACE TRAFFIC IN STAGE II LANE.
3. REMOVE STAGE II PORTION OF THE EXISTING STRUCTURE, GUARDRAIL AND PAVEMENT.
4. CONSTRUCT STAGE II PORTION OF THE PROPOSED BOX CULVERT, PAVEMENT AND GUARDRAIL.

STAGE III

1. REMOVE TRAFFIC CONTROL ITEMS ASSOCIATED WITH STANDARD 701321. INSTALL SHORT TERM PAVEMENT MARKINGS AND PLACE TRAFFIC IN PERMANENT LANES.
2. PLACE HMA BINDER, SURFACE COURSE AND SHOULDERS IN ACCORDANCE WITH STANDARD 701201.
3. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH STANDARD 701311.

NOTE A












REMAINDER OF SIGNING ACCORDING TO STANDARD 701321
 TEMPORARY RUMBLE STRIPS WILL BE USED AND PLACED ACCORDING TO STANDARD 701321.
 ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

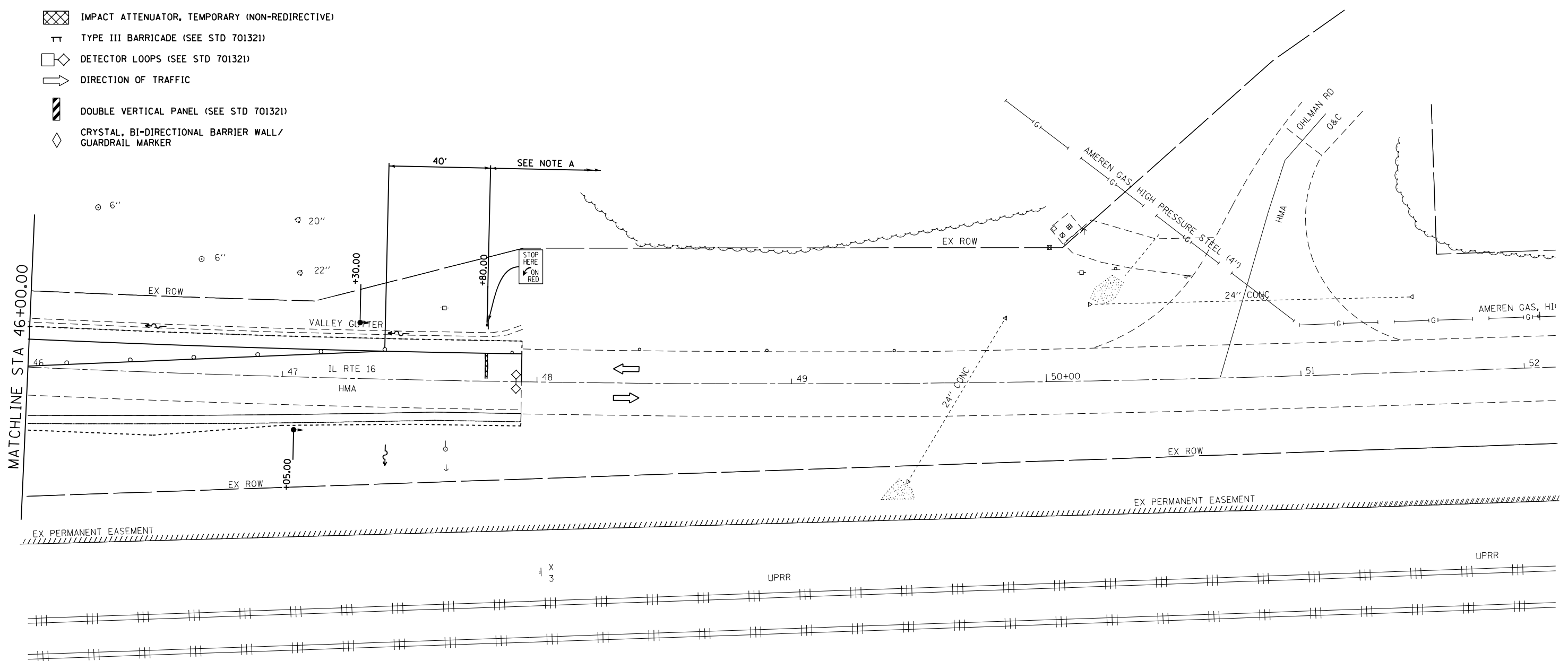
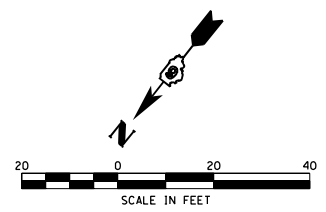


MODEL: D:\p\h\...
 FILE NAME: W:\C\CH\EL\ED\DATA\Drawings\Microstation\2112\1718\B\CADD\DATA_S\068-0017\068-2509-4-Phase\Traffic\IL-0509-001.dgn
 FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525
 FEHR GRAHAM PROJECT NUMBER: 10005-2

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525	USER NAME = mesca1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE II TRAFFIC CONTROL IL 16 SN 068-2509	F.A.P. RTE. 325	SECTION 18(B-2, B-3); 16(CR)	COUNTY -	TOTAL SHEETS 142	SHEET NO. 69
	PLOT SCALE = 40,000/000' / in.	CHECKED - MCB	REVISED -			SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.	CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT
	PLOT DATE = 5/9/2023	DATE -	REVISED -	* MONTGOMERY & CHRISTIAN						

LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER



NOTE A

REMAINDER OF SIGNING ACCORDING TO STANDARD 701321
 TEMPORARY RUMBLE STRIPS WILL BE USED AND PLACED
 ACCORDING TO STANDARD 701321.
 ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING
 TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC
 CONTROL AND PROTECTION STANDARD 701321.

MODEL Path: \\...
 FILE NAME: \\...
 FEHR GRAHAM PROJECT NUMBER: 10005-2



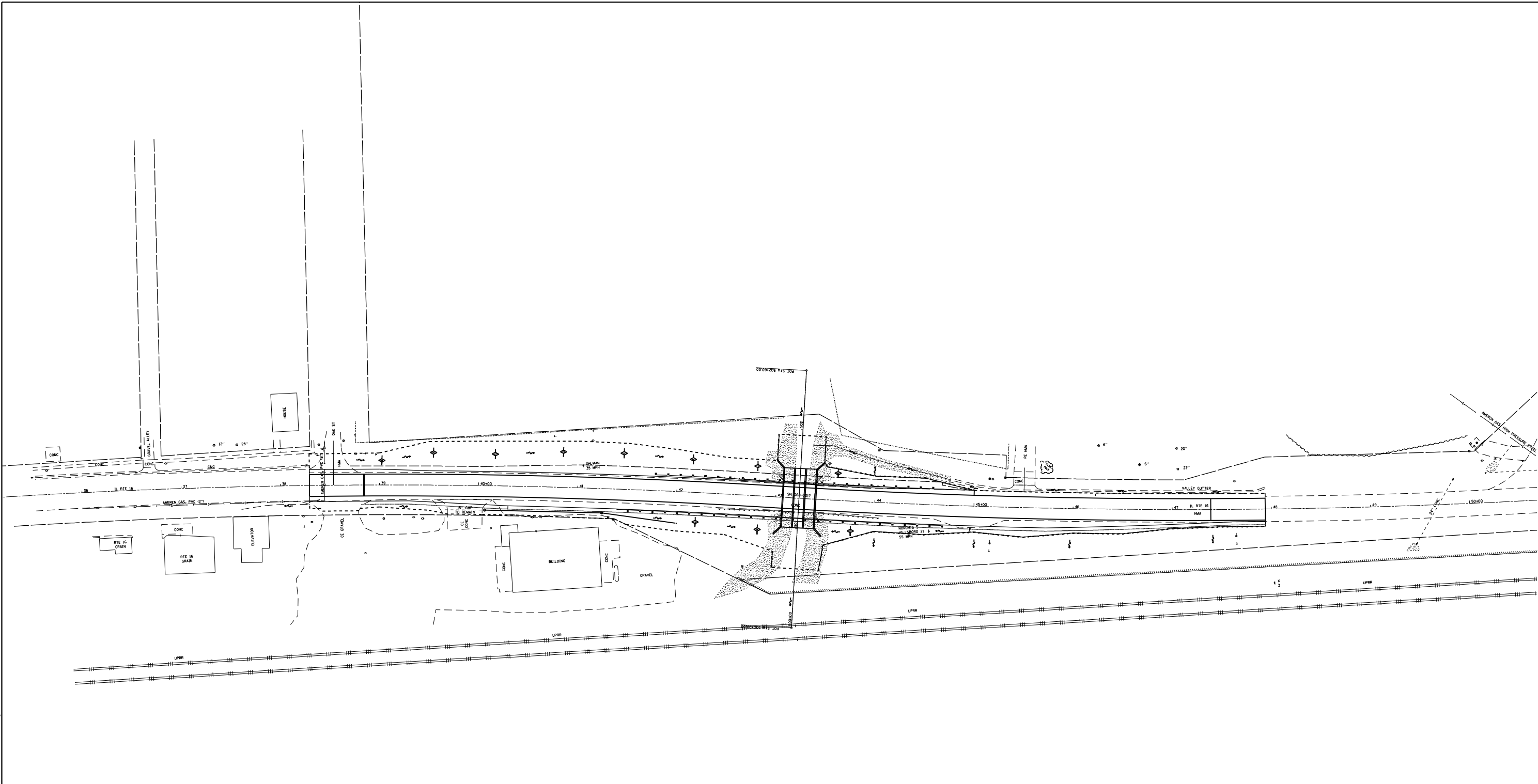
USER NAME = mesca1	DESIGNED -	REVISED -
PLOT SCALE = 40,000/000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE II TRAFFIC CONTROL
 IL 16 SN 068-2509**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	71
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				



LEGEND

- ◆ TEMPORARY DITCH CHECK (AGGREGATE (EROSION CONTROL))
- PERIMETER EROSION BARRIER

MODEL: Default
 FILE NAME: \\03CHEL\EDData\Drawings\Microstation\117-1718B\CADDData SN_066-0017\0672984-etc\06-0509.dgn

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = mescael	DESIGNED -	REVISED -
PLOT SCALE = 100,000,000 * / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/1/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
IL 16 SN 068-2509

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	72
CONTRACT NO. 72984				

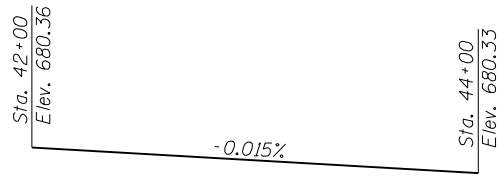
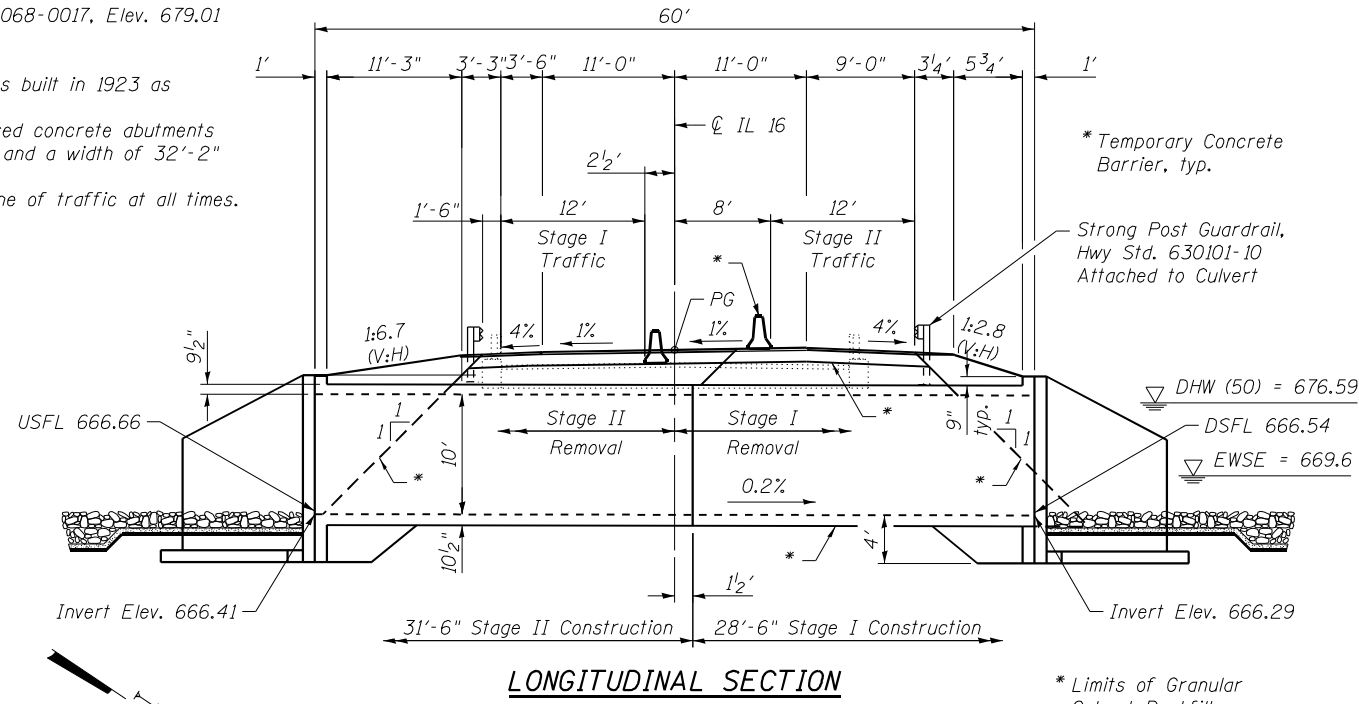
Benchmark: Chiseled '□' on Northwest wingwall SN 068-0017, Elev. 679.01 at Sta. 43+38.9, 16.39' Rt.

Existing Structure: SN 068-0017 at Sta. 43+23 was built in 1923 as SBI 16, Section 18. The structure is a single span concrete slab on closed concrete abutments and has a length of 32'-0" back to back abutments and a width of 32'-2" out to out, no skew. Stage construction will be utilized to maintain one lane of traffic at all times.

No Salvage.

INDEX OF SHEETS

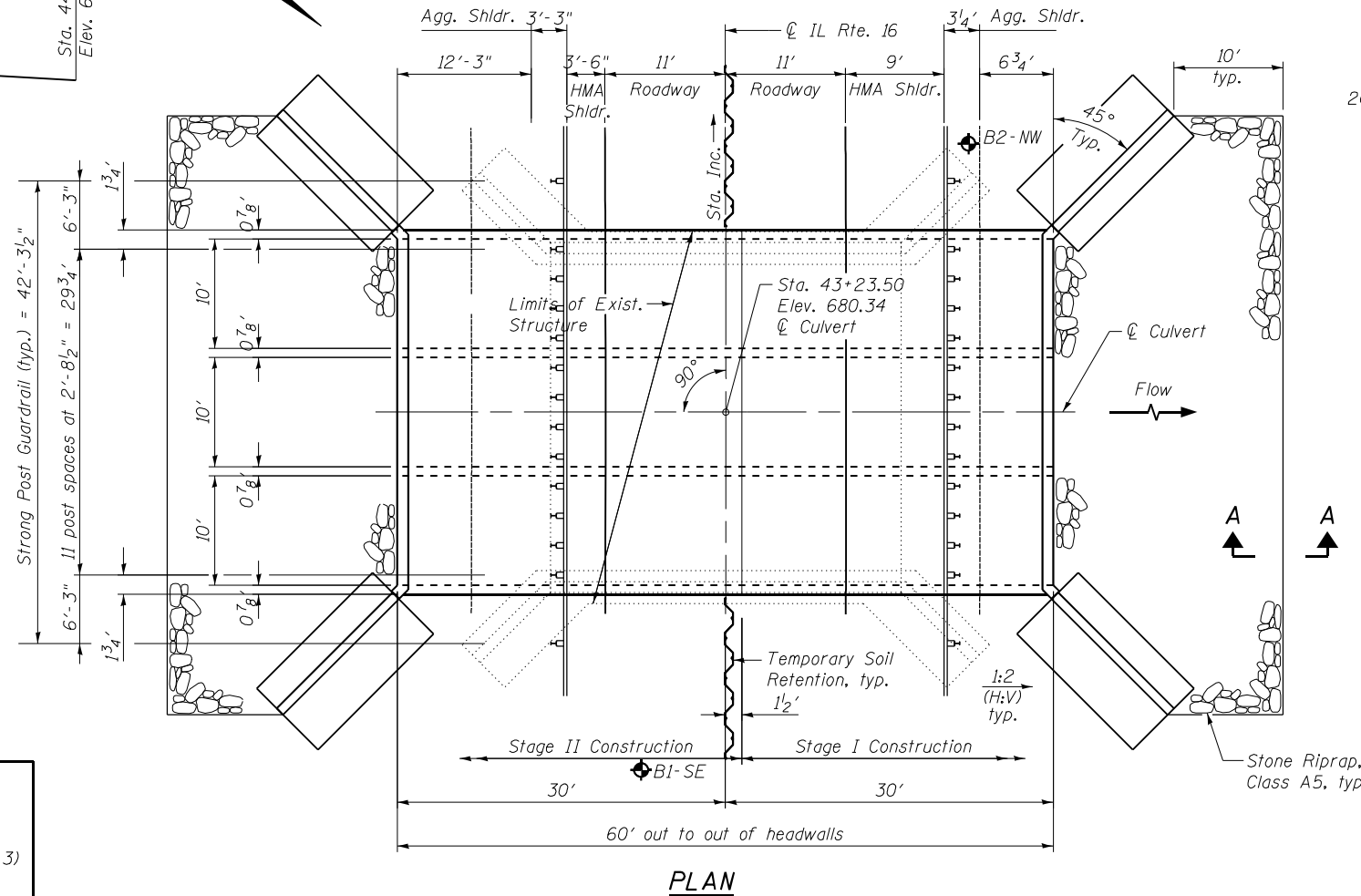
1. General Plan
2. Stage Construction Details
3. Temporary Concrete Barrier for Stage Construction
- 4.-5. Culvert Details
6. Bar Splicer Assembly and Mechanical Splicer Details
7. Boring Logs



PROFILE GRADE
(along CL Rte. 16)

CURVE DATA

$\Delta = 7^{\circ}06'00''$ (L.I.)
 $D = 0^{\circ}51'37''$
 $T = 413.13'$
 $L = 825.20'$
 $E = 12.80'$
 $R = 6659.20'$
 $S.E. = 2.2\%$
 $P.C. = Sta. 43+00.00$
 $P.T. = Sta. 51+25.20$
 $P.I. = Sta. 47+13.13$
 SE Transition from 43+00.00 (0.00%) to 43+51.55



PLAN

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	662.4	662.3

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications, 5th Edition, with 2010 Interims

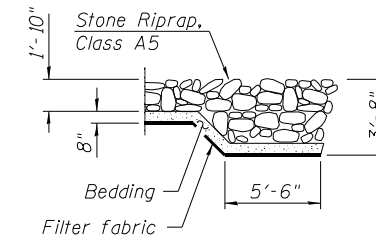
LOADING HL-93

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

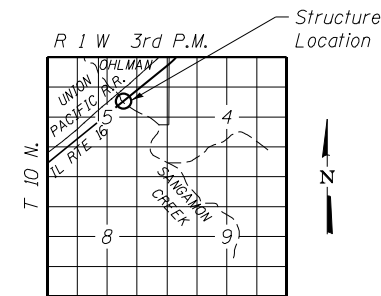
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)



SECTION A-A



LOCATION SKETCH

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Excavation behind 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.
 Reinforcement Bars designated (E) shall be epoxy coated.
 Poor foundation material may be encountered under some areas of the culvert. Contact the District Geotechnical Engineer to verify foundation materials meet plan requirements. A quantity for Rock Fill - Foundation has been estimated and included in the plans to be used if the District Geotechnical Engineer determines it is necessary. Rockfill foundation shall be used to fill in areas where the existing foundation has been removed. See Special Provisions for Rock Fill - Foundation. See Roadway Plans for Temporary Concrete Barrier quantity.

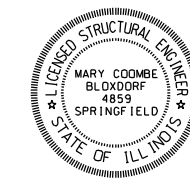
WATERWAY INFORMATION

Drainage Area = 2.0 sq. mi.		Exist. Overtopping Elev. 679.18 @ Sta. 43+23.00							
		Prop. Overtopping Elev. 680.65 @ Sta. 43+23.00							
Flood	Freq. Yr.	Q C.F.S.	Waterway Opening Sq. Ft.		H.W.E.	Head - Ft.		Headwater El.	
			Existing	Proposed		Exist.	Prop.	Exist.	Prop.
Design	10	630	130	250	675.05	0.5	0.5	675.50	675.56
Base	50	1040	170	300	676.59	0.5	0.5	677.09	677.05
Overturning Event (E)	100	1230	190	300	677.29	0.8	0.5	678.05	677.74
Overturning Event (P)	<500 yr.		Bridge/Weir	Bridge/Weir					
Max. Calc.	500	1690	230/260	300/20	679.71	0.9	1.0	680.59	680.67

10 yr Outlet Velocity from Existing Structure = 4.22 fps
 10 yr Outlet Velocity from Proposed Structure = 5.55 fps

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Riprap, Class A5	Sq. Yd.	235
Filter Fabric	Sq. Yd.	235
Removal of Existing Structures No. 1	Each	1
Reinforcement Bars	Pound	44,310
Reinforcement Bars, Epoxy Coated	Pound	890
Bar Splicers	Each	148
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	261.0
Rock Fill - Foundation	Ton	14
Granular Culvert Backfill	Cu. Yd.	213
Temporary Soil Retention System	Sq. Ft.	298
Membrane Waterproofing System for Buried Structures	Sq. Yd.	239
Geocomposite Wall Drain	Sq. Yd.	239
Strong Post Guardrail Attached to Culvert	Foot	85



Mary Coombe Bloxdorf

ILLINOIS STRUCTURAL NO. 4859
 EXPIRES 11/30/2024
 DATE 04 28 / 2023

GENERAL PLAN
IL RTE. 16 OVER SANGAMON CREEK
FAP RTE. 325 SECTION 18(B-2, B-3)
MONTGOMERY COUNTY
STATION 43+23.50
STRUCTURE NO. 068-2509

STATION 43+23.50
 BUILT 20__ BY
 STATE OF ILLINOIS
 F.A.P. RTE. 325 SEC. 18(B-2, B-3)
 LOADING HS-93
 STR. NO. 068-2509

LETTERING FOR NAME PLATE
 See Std. 515001

MODEL: Default
 FILE NAME: \\rochelle\Drawings\Microstation\2112-1-7188\CADDData SN 068-0017\0680509-7298+001-GPE.dgn



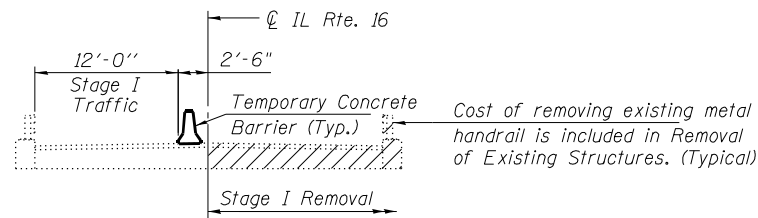
USER NAME = mgopalraj	DESIGNED - AMC	REVISED -
PLOT SCALE = 16.0000' / in.	CHECKED - MCB	REVISED -
PLOT DATE = 4/27/2023	DRAWN - NMY	REVISED -
	CHECKED - MCB	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

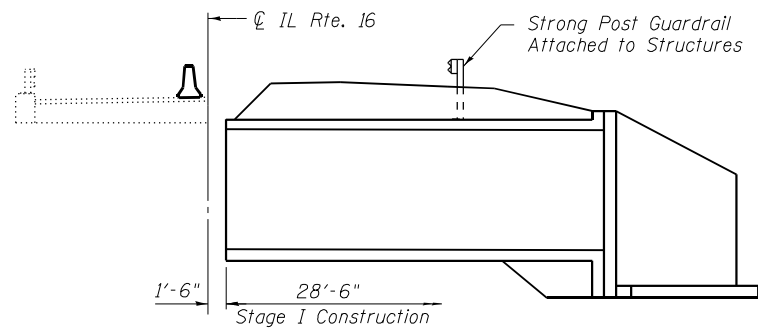
GENERAL PLAN AND ELEVATION
 SN 068-2509

SHEET 1 OF 7 SHEETS

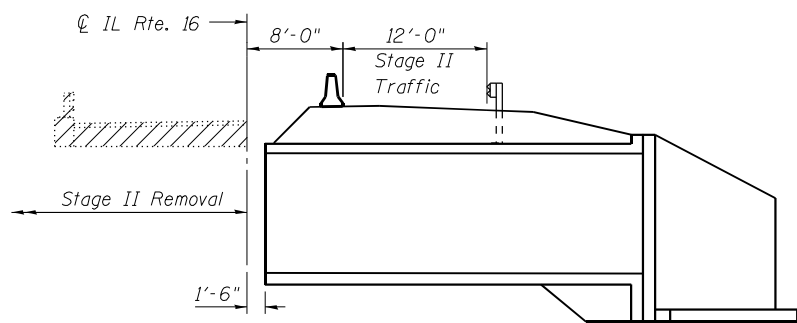
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	73
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				



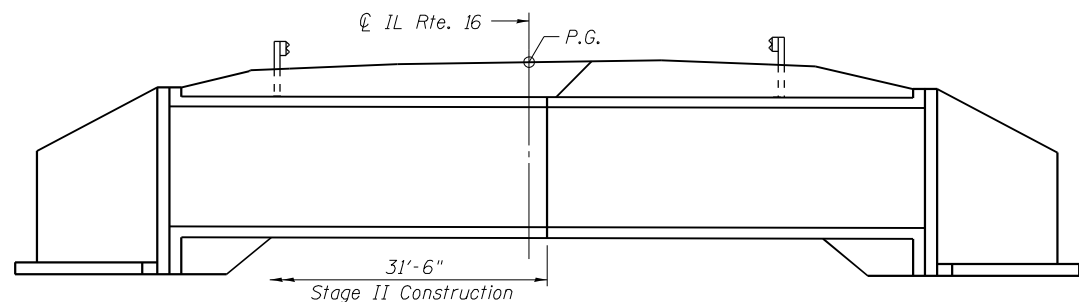
STAGE I REMOVAL
(Looking Southwest)



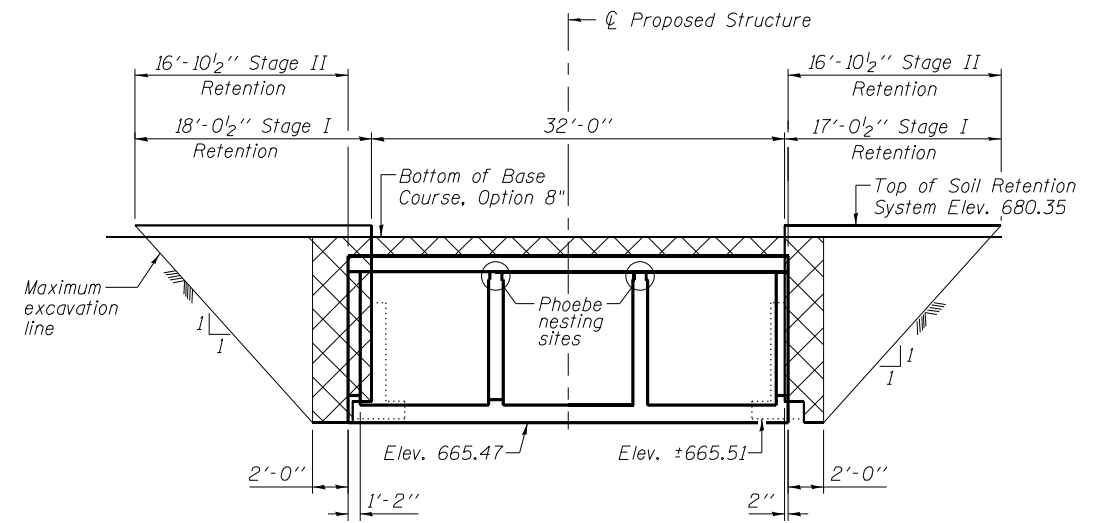
STAGE I CONSTRUCTION
(Looking Southwest)



STAGE II REMOVAL
(Looking Southwest)



STAGE II CONSTRUCTION
(Looking Southwest)



TEMPORARY SOIL RETENTION SYSTEM
(Dimensions along CL Roadway) (Looking Downstream)

Notes: Cross hatched area indicates Granular Culvert Backfill. See Special Provisions.
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 system design including plan details and calculations for review and acceptance by the Engineer.
Hatched area indicates Removal of Existing Structures.
See roadway plans for quantity of Temporary Concrete Barrier.

MODEL: Default
FILE NAME: \\rochelle\Drawings\Microstation\2112-1-7188\CADData SN 068-0017\0680509-72984-002-51TG.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME =	mgopalraj	DESIGNED -	AMC	REVISED -	
		CHECKED -	MCB	REVISED -	
PLOT SCALE =	16:0.0000 " = 1/8" / in.	DRAWN -	MMY	REVISED -	
PLOT DATE =	4/27/2023	CHECKED -	MCB	REVISED -	

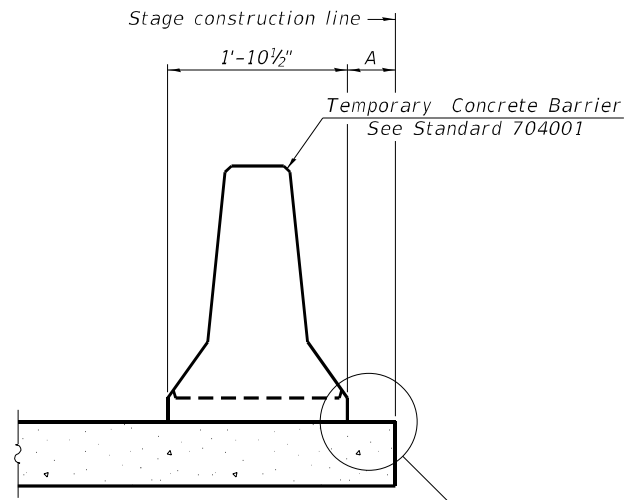
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 068-2509

SHEET 2 OF 7 SHEETS

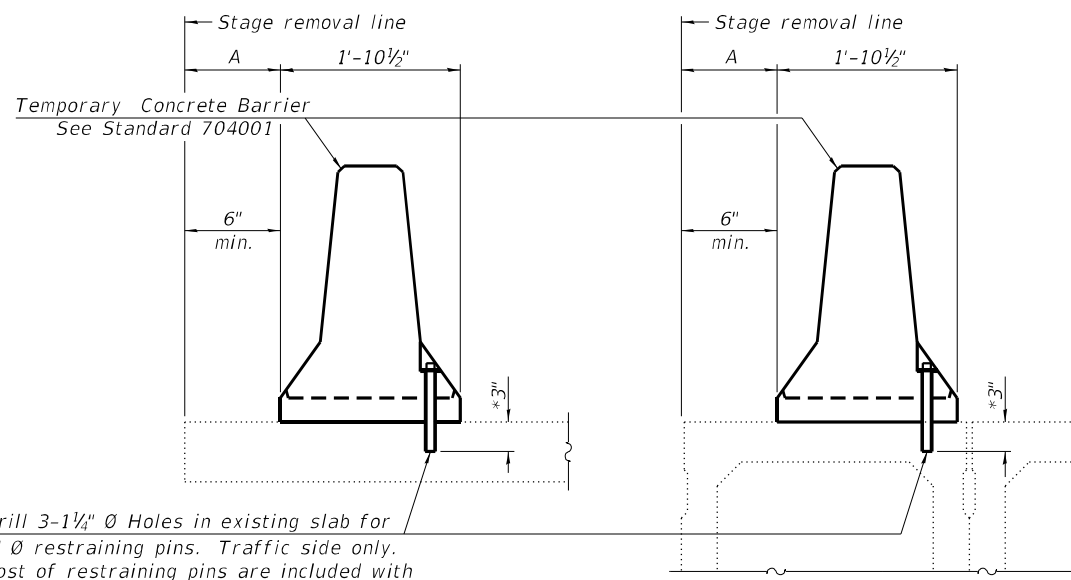
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	74
			CONTRACT NO. 72984	
ILLINOIS FED. AID PROJECT				

FEHR GRAHAM PROJECT NUMBER: 10005-2



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".

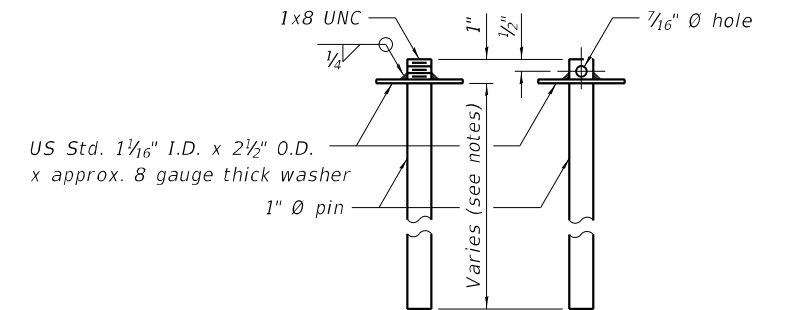
NEW SLAB OR NEW DECK BEAM



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".

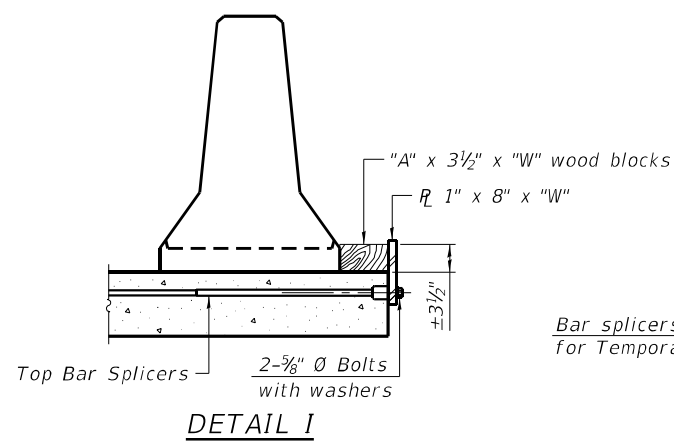
EXISTING SLAB

EXISTING DECK BEAM

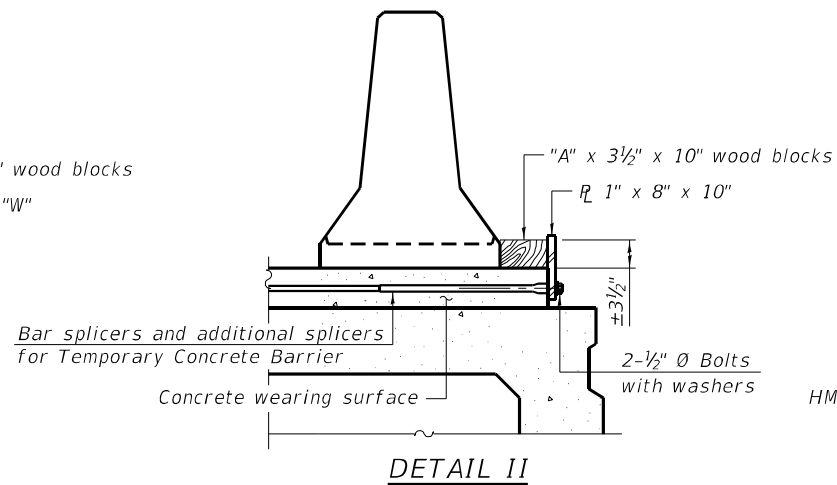


RESTRAINING PIN

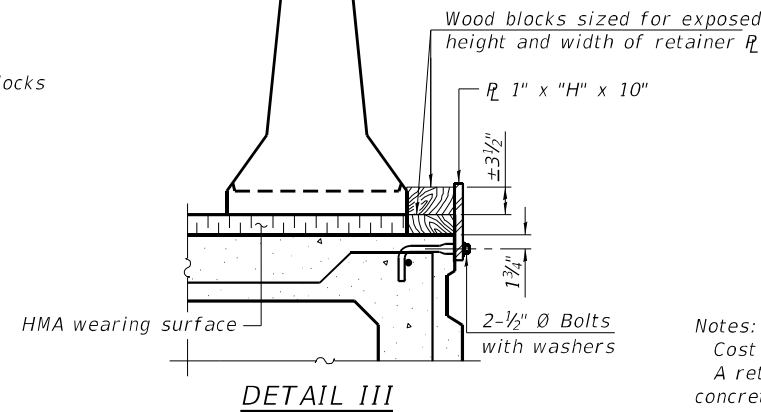
SECTIONS THRU SLAB OR DECK BEAM



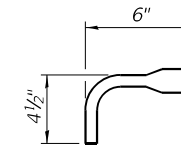
DETAIL I



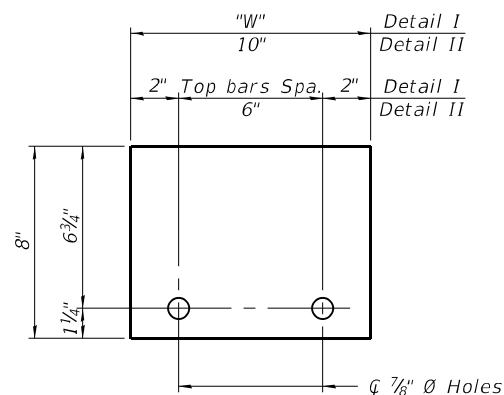
DETAIL II



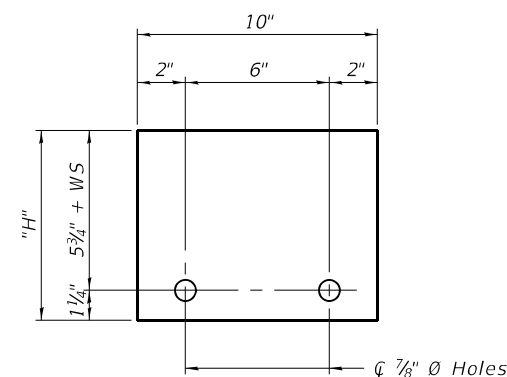
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate center 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.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27 10-12-2021

MODEL: Default
 FILE NAME: \\rochelle\Drawings\Microstation\212-1-7188\CADData SN 068-0017\0680509-72984-003-TCB.dgn

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. IB4-003525

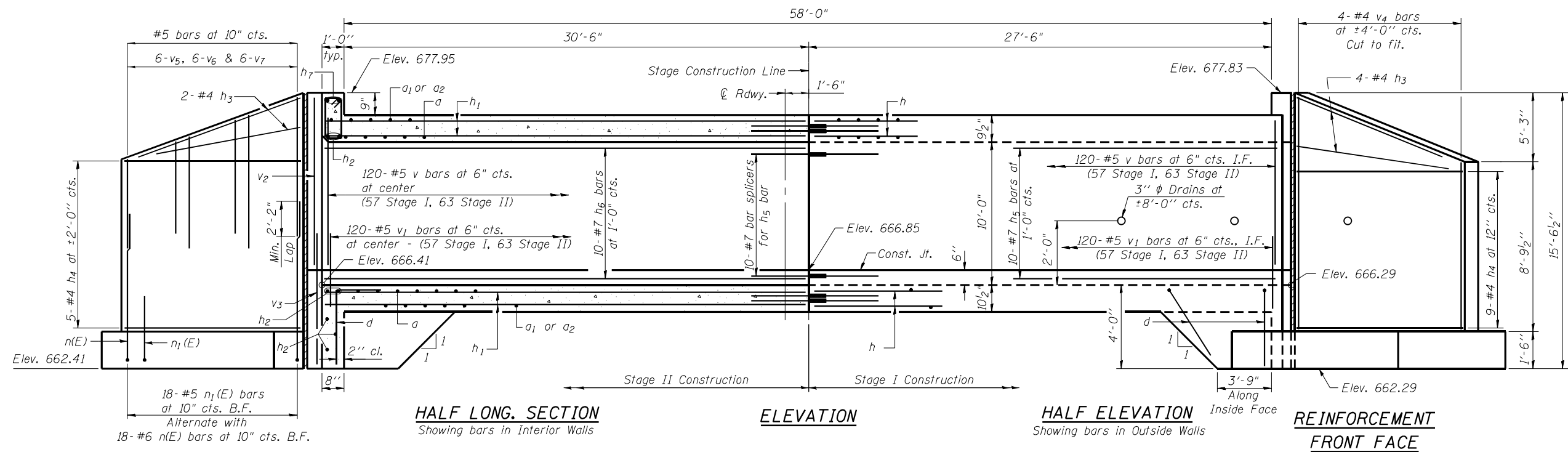
USER NAME =	mgopalraj	DESIGNED -	AMC	REVISED -	
PLOT SCALE =	0:2.0000 " = 1" / in.	CHECKED -	MCB	REVISED -	
PLOT DATE =	4/27/2023	DRAWN -	MMY	REVISED -	
		CHECKED -	MCB	REVISED -	

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

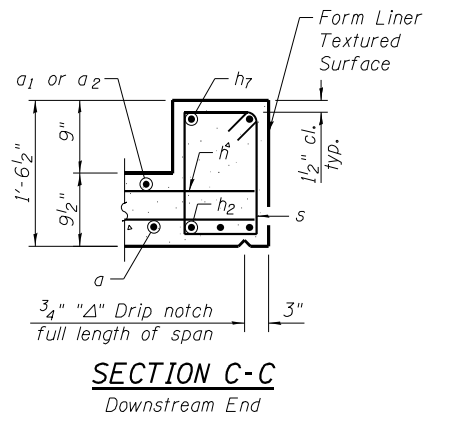
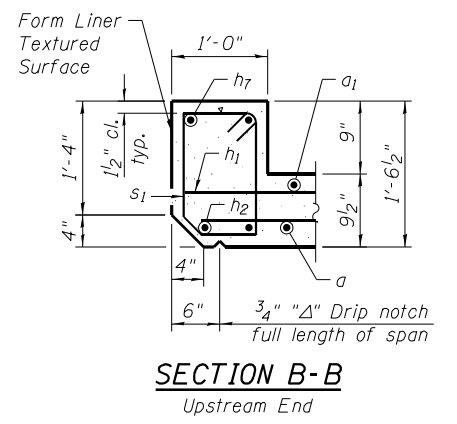
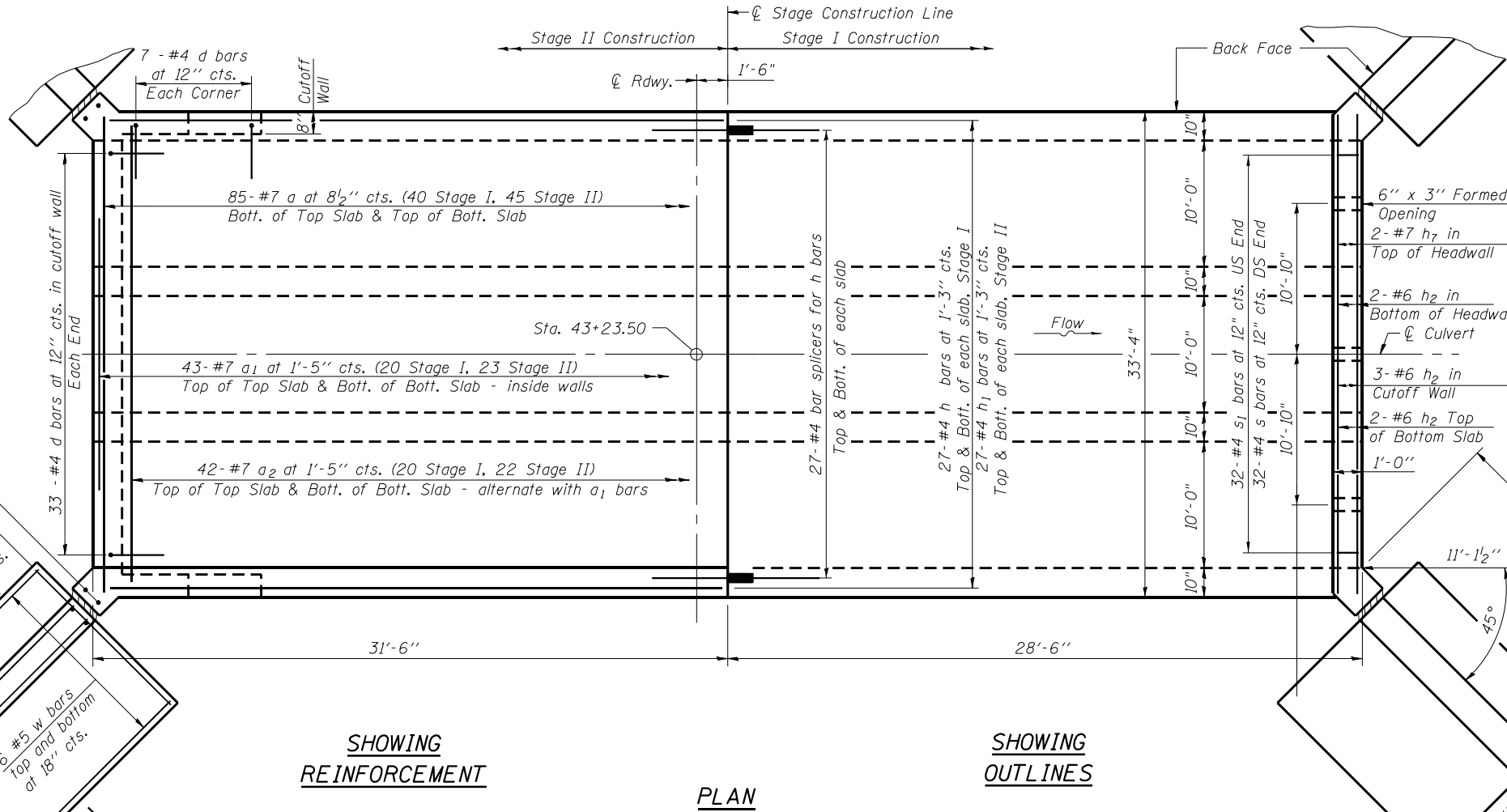
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
 STRUCTURE NO. 068-2509

SHEET 3 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	75
			CONTRACT NO. 72984	
ILLINOIS FED. AID PROJECT				



REINFORCEMENT BACK FACE



Note:
See sheet 5 of 7 for Sec. A-A,
bar details and Bill of Material.

MODEL: Default
 FILE NAME: \\rochelle\Drawings\Microstation\2112-1-7188\CADData_S1_0668-0017\06680509-7298-004-PLN.dgn
 DB-T-0
 7-1-10
 FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525
 ILLINOIS PROJECT NUMBER: 10005-2

DB-T-0

7-1-10

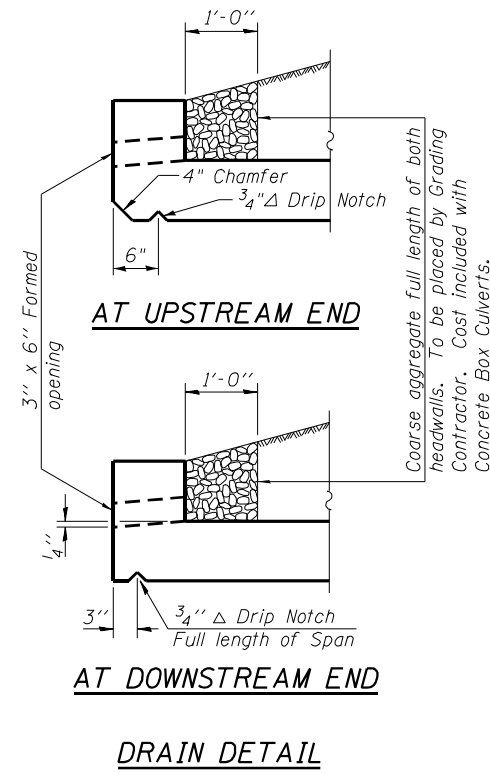
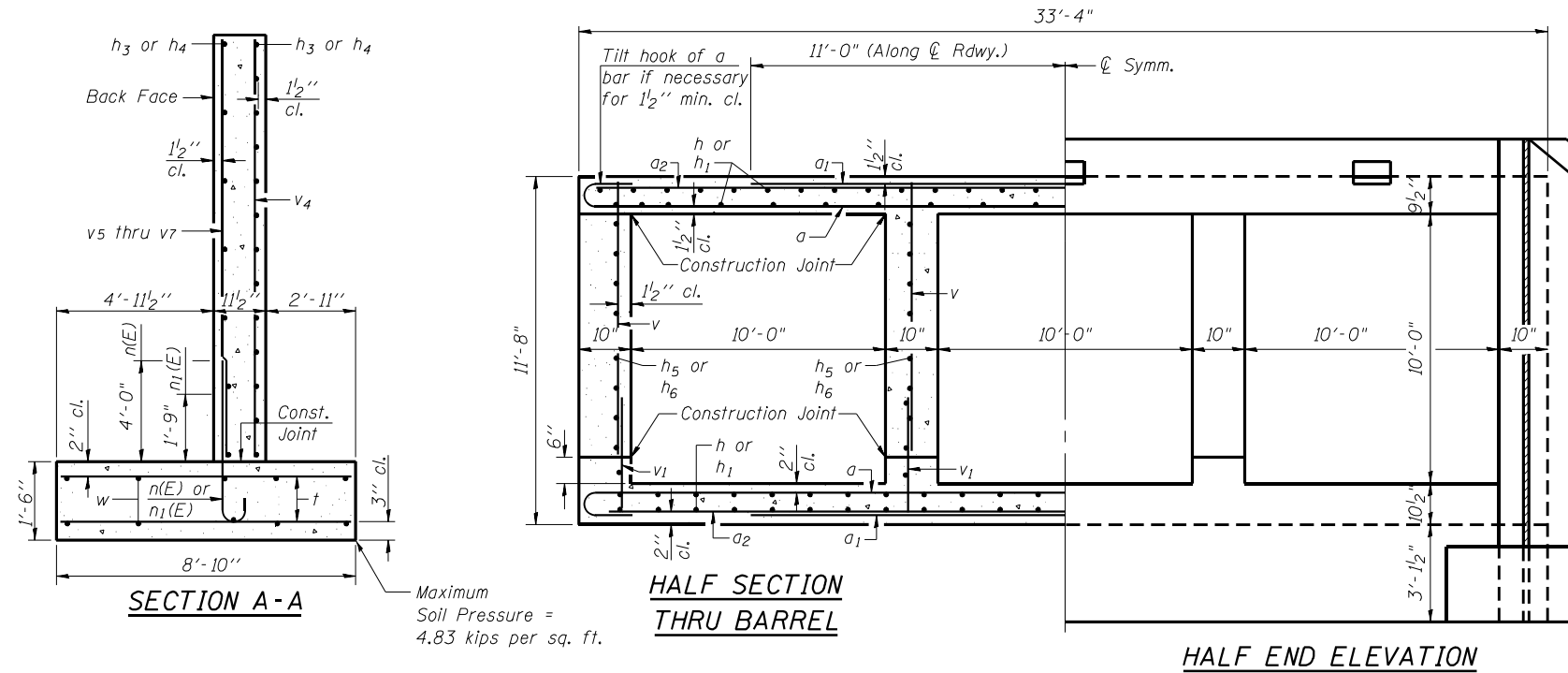
USER NAME =	mgopalraj	DESIGNED -	AMC	REVISED -	
PLOT SCALE =	0:2.0000 " = 1/8" in.	CHECKED -	MCB	REVISED -	
PLOT DATE =	4/27/2023	DRAWN -	MMY	REVISED -	
		CHECKED -	MCB	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STRUCTURE NO. 068-2509

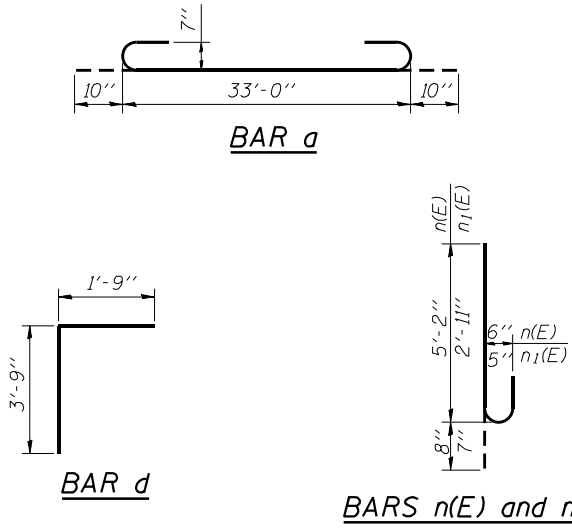
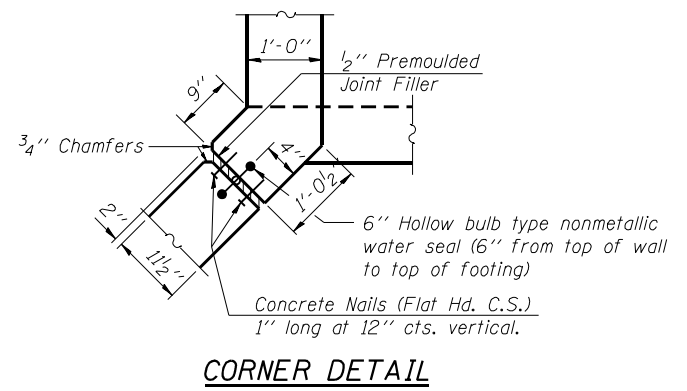
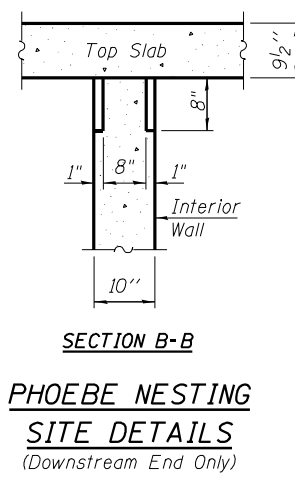
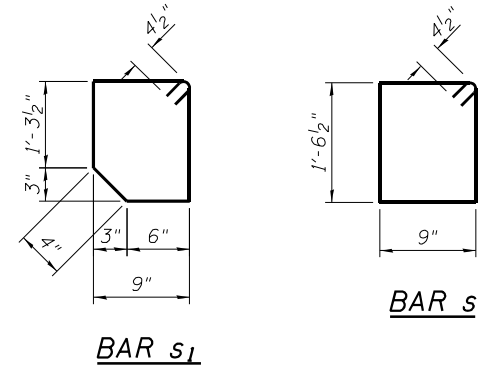
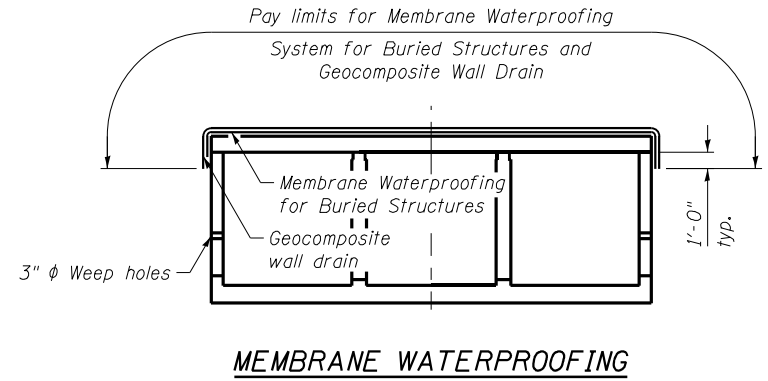
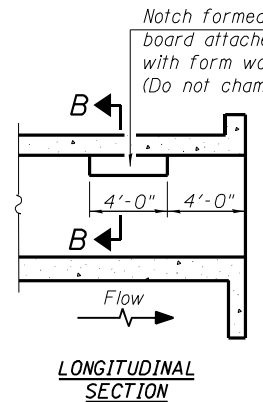
SHEET 4 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	76
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	170	#7	34'-8"	
a ₁	86	#7	22'-0"	
a ₂	84	#7	33'-0"	
d	94	#4	5'-6"	
h	108	#4	28'-2"	
h ₁	108	#4	31'-2"	
h ₂	14	#6	33'-0"	
h ₃	24	#4	14'-8"	
h ₄	56	#4	14'-6"	
h ₅	40	#7	28'-2"	
h ₆	40	#7	31'-2"	
h ₇	4	#7	33'-0"	
n(E)	72	#6	5'-10"	
n ₁ (E)	72	#5	3'-6"	
s	32	#4	5'-4"	
s ₁	32	#4	5'-2"	
t	172	#7	8'-6"	
v	480	#5	10'-0"	
v ₁	480	#5	2'-11"	
v ₂	8	#5	10'-8"	
v ₃	8	#6	6'-4"	
v ₄	16	#4	13'-8"	
v ₅	24	#5	8'-8"	
v ₆	24	#5	10'-6"	
v ₇	24	#5	12'-4"	
w	48	#5	14'-7"	
Concrete Box Culverts	Cu. Yd.		261.0	
Reinforcement Bars, Epoxy Coated	Pound		890	
Reinforcement Bars	Pound		44,310	

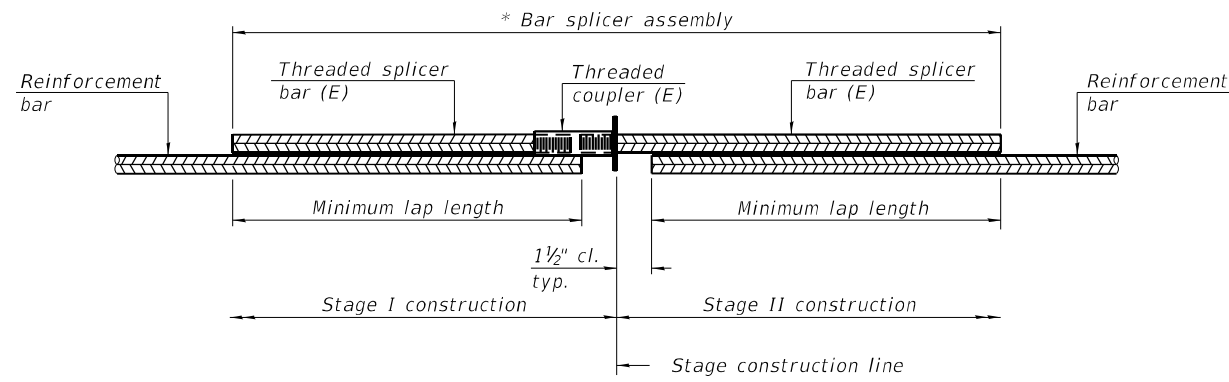


Notes:
Reinforcement bars designated (E) shall be epoxy coated.

MODEL: Default
FILE NAME: \\rochelle\Drawings\Microstation\2112-1-7188\CADData SN 0668-0017\06680509-72984-005-DET.dgn

USER NAME = mgopalraj	DESIGNED - AMC	REVISED -
PLOT SCALE = 16:0.0000 " = 1/4" / in.	CHECKED - MCB	REVISED -
PLOT DATE = 4/27/2023	DRAWN - NMY	REVISED -
	CHECKED - MCB	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	77
			CONTRACT NO. 72984	
ILLINOIS FED. AID PROJECT				



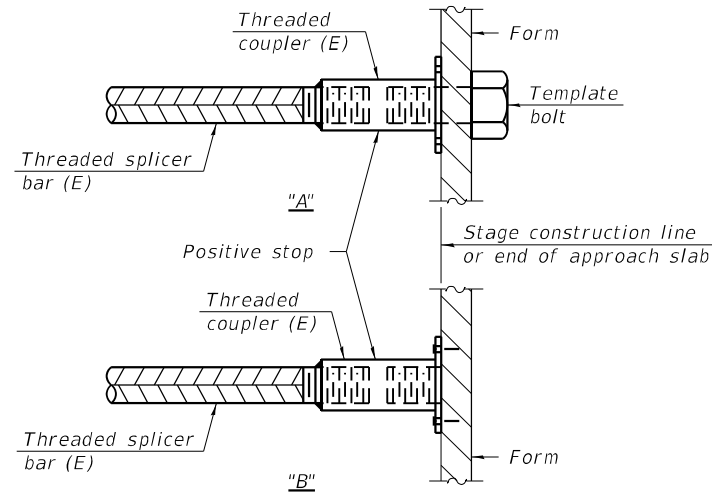
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

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
Top Slab	#4	54	1'-9"
Bottom Slab	#4	54	1'-9"
Walls	#7	40	3'-10"

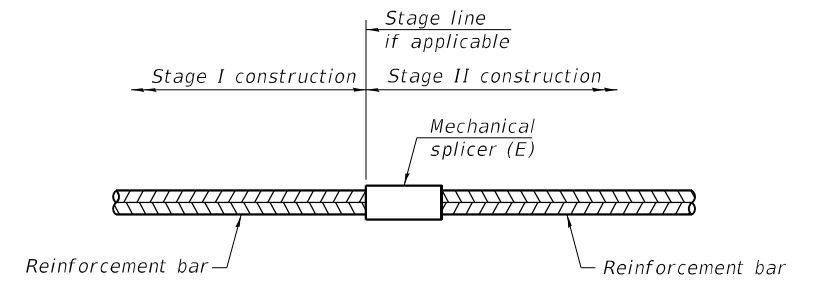


INSTALLATION AND SETTING METHODS

"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

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.

MODEL: Default
FILE NAME: \\rochelle\Drawings\Microstation\212-1-7188\CADData SN 068-0017\0680509-7298-06-85D.dgn

BSD-1

2-1-2023



USER NAME = mgopalraj	DESIGNED - AMC	REVISD -
	CHECKED - MCB	REVISD -
PLOT SCALE = 0:2.0000 " / in.	DRAWN - MMY	REVISD -
PLOT DATE = 4/27/2023	CHECKED - MCB	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 068-2509

SHEET 6 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	78
			CONTRACT NO. 72984	
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

Page 1 of 1
Date 10/27/10

ROUTE FAP 325 DESCRIPTION Culvert carrying IL 16 over Sangamon Creek LOGGED BY M. Tappan
SECTION 18(B-2, B-3) LOCATION NE 1/4, SEC. 5, TWP. 10N, RNG. 1W, 3 PM
COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140# Auto

Table with columns for Soil Type, Depth (ft), Blows (B), Penetration (P), and Moisture (M). Includes soil descriptions like 'Dark Gray Moist SILTY CLAY LOAM' and 'Gray Dry SANDY CLAY LOAM (Till)'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 2
Date 10/29/10

ROUTE FAP 325 DESCRIPTION Culvert carrying IL 16 over Sangamon Creek LOGGED BY M. Tappan
SECTION 18(B-2, B-3) LOCATION NE 1/4, SEC. 5, TWP. 10N, RNG. 1W, 3 PM
COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140# Auto

Table with columns for Soil Type, Depth (ft), Blows (B), Penetration (P), and Moisture (M). Includes soil descriptions like 'Dark Gray Moist SILTY CLAY (Fill)' and 'Gray Dirty Med SANDY GRAVEL'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 2 of 2
Date 10/29/10

ROUTE FAP 325 DESCRIPTION Culvert carrying IL 16 over Sangamon Creek LOGGED BY M. Tappan
SECTION 18(B-2, B-3) LOCATION NE 1/4, SEC. 5, TWP. 10N, RNG. 1W, 3 PM
COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140# Auto

Table with columns for Soil Type, Depth (ft), Blows (B), Penetration (P), and Moisture (M). Includes soil descriptions like 'Gray Dry CLAY LOAM (Till)' and 'Olive Brown Moist Clay Loam Till'.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

MODEL: Default
FILE NAME: \\rochelle\Drawings\Microstation\2112-1-7188\CADData SN 068-001706805-09-72984-007-BOR.dgn



Table with columns for USER NAME, DESIGNED, CHECKED, PLOT SCALE, and PLOT DATE.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 068-2509

SHEET 7 OF 7 SHEETS

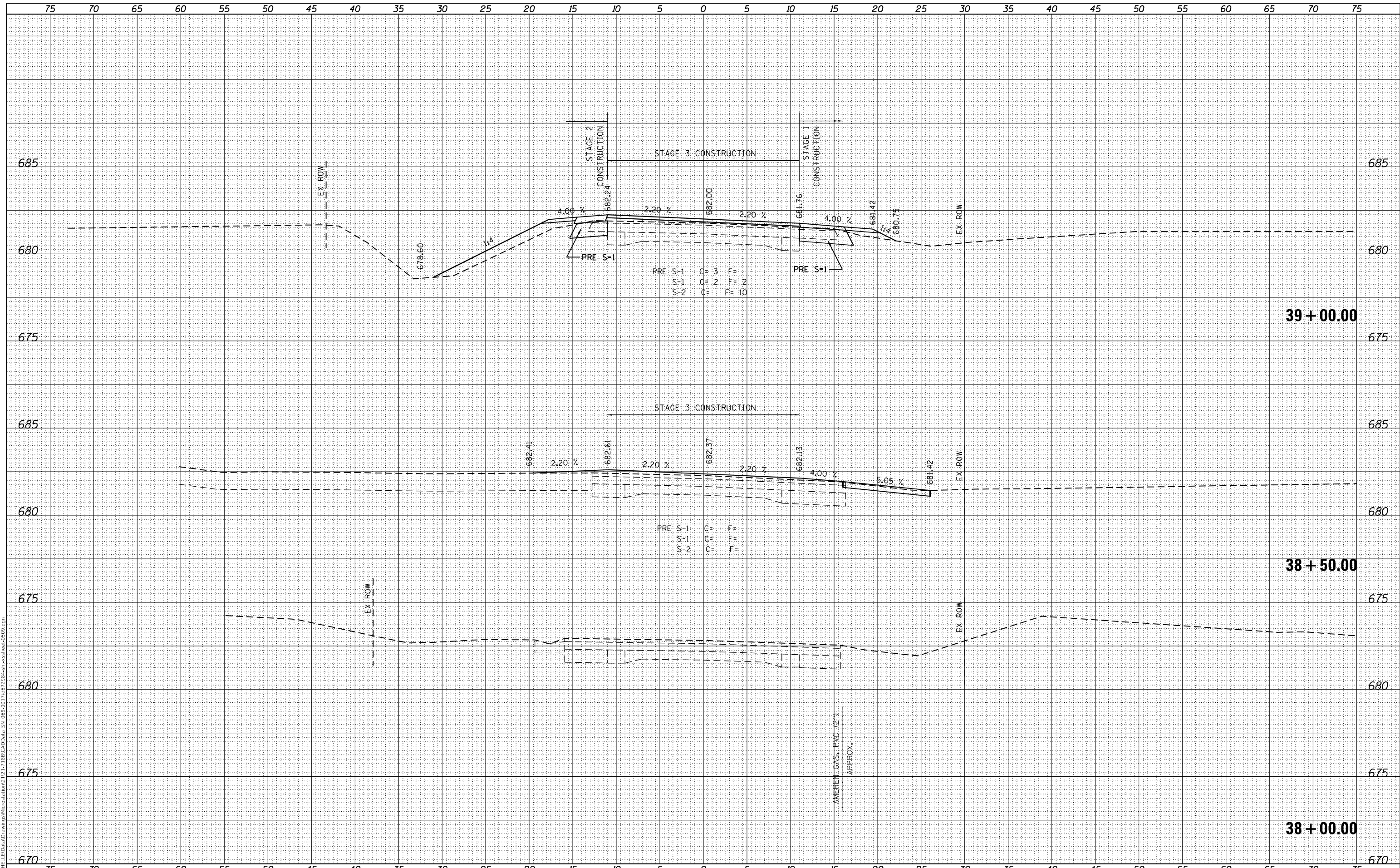
Table with columns for F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., and CONTRACT NO.

FEHR GRAHAM PROJECT NUMBER: 10005-2

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	

MODEL: Definit
 FILE NAME: W:\CHIEF\ED\Drawings\184\184-003525\184-003525-38-00.dwg



FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525
 FEHR GRAHAM PROJECT NUMBER: 10005-2

USER NAME = mescahel	DESIGNED -	REVISED -
PLOT SCALE = 10,000,000 ' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

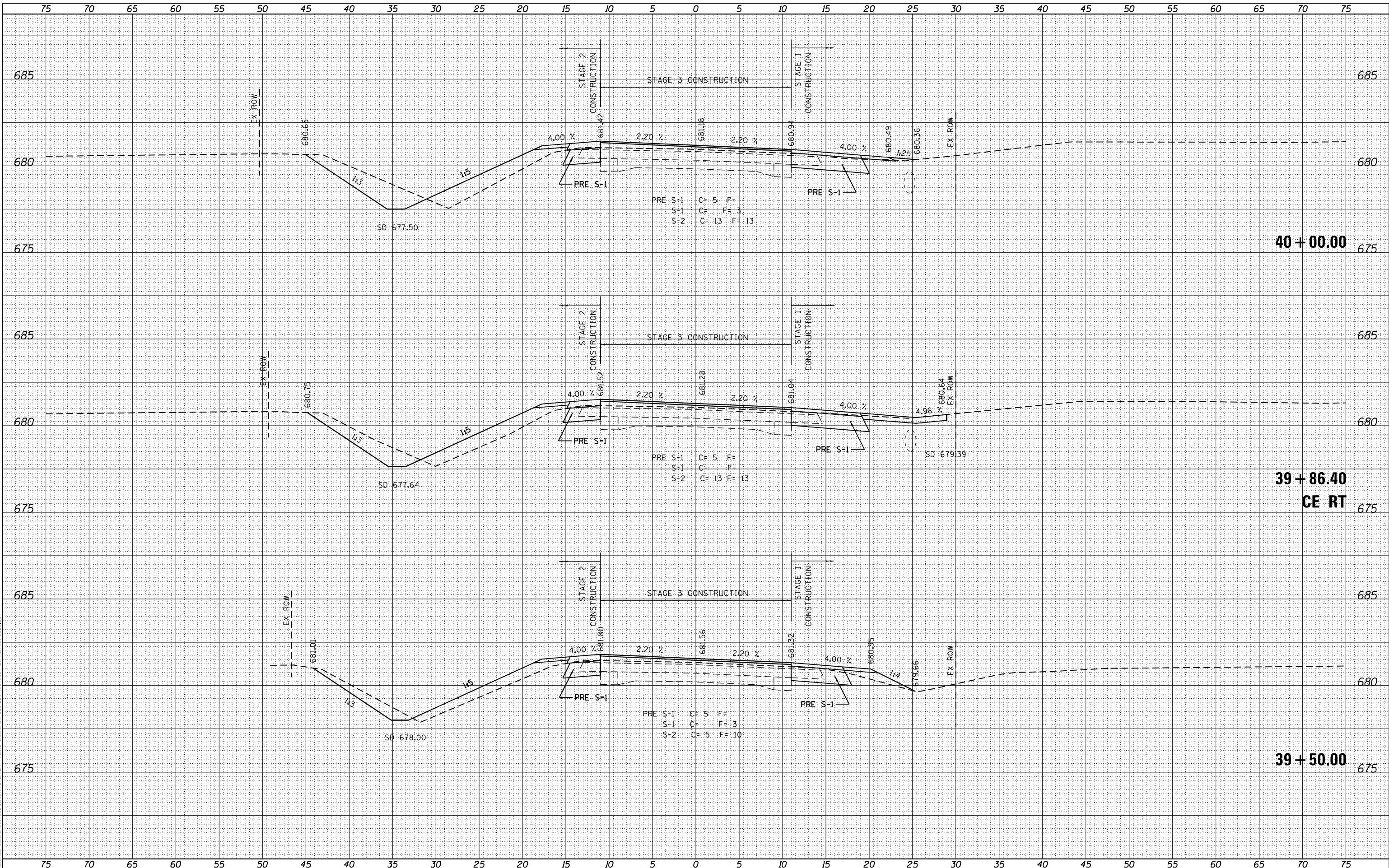
CROSS SECTIONS IL 16 SN 068-2509		
SCALE:	SHEET 1 OF 11 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	80
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
* MONTGOMERY & CHRISTIAN				

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

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

MODEL: D:\mch\18\Drawings\18\restations\18\18\18\CAD\data_S1_085-000\18\18\2798-lm-rc-ssr-ee-3509.dgn
 FILE NAME: W:\CH18\Drawings\18\restations\18\18\18\CAD\data_S1_085-000\18\18\2798-lm-rc-ssr-ee-3509.dgn



USER NAME = mescatel
PLOT SCALE = 10,000,000 ' / in.
PLOT DATE = 5/9/2023

DESIGNED -	REVISIED -
DRAWN - CFC	REVISIED -
CHECKED - MCB	REVISIED -
DATE -	REVISIED -

PRE S-1 C= 5 F=
S-1 C= F= 3
S-2 C= 13 F= 13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
IL 16 SN 068-2509**

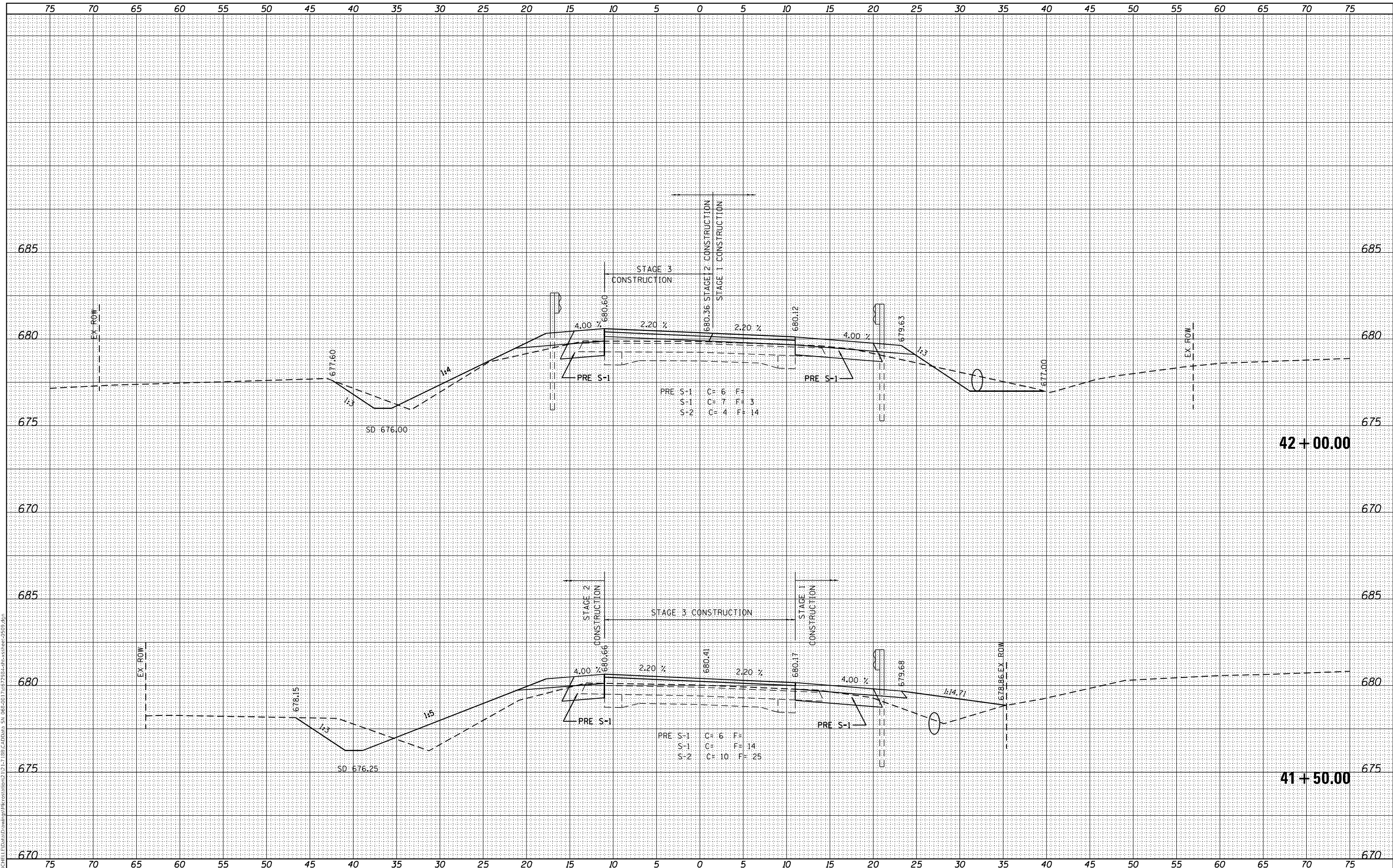
SCALE: SHEET 2 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	81
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
MONTGOMERY & CHRISTIAN				

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

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

MODEL: Definit
 FILE NAME: W:\CHIEF\ED\Drawings\Illinois\16\16-06-000\16-06-000-2509.dgn



FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = mescahel
DESIGNED -
DRAWN - CFC
CHECKED - MCB
DATE -
PLOT SCALE = 10,000,000 ' / in.
PLOT DATE = 5/9/2023

DESIGNED -
REVISIONS
REVISIONS
REVISIONS
REVISIONS
REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 16 SN 068-2509

SCALE: SHEET 4 OF 11 SHEETS STA. TO STA.

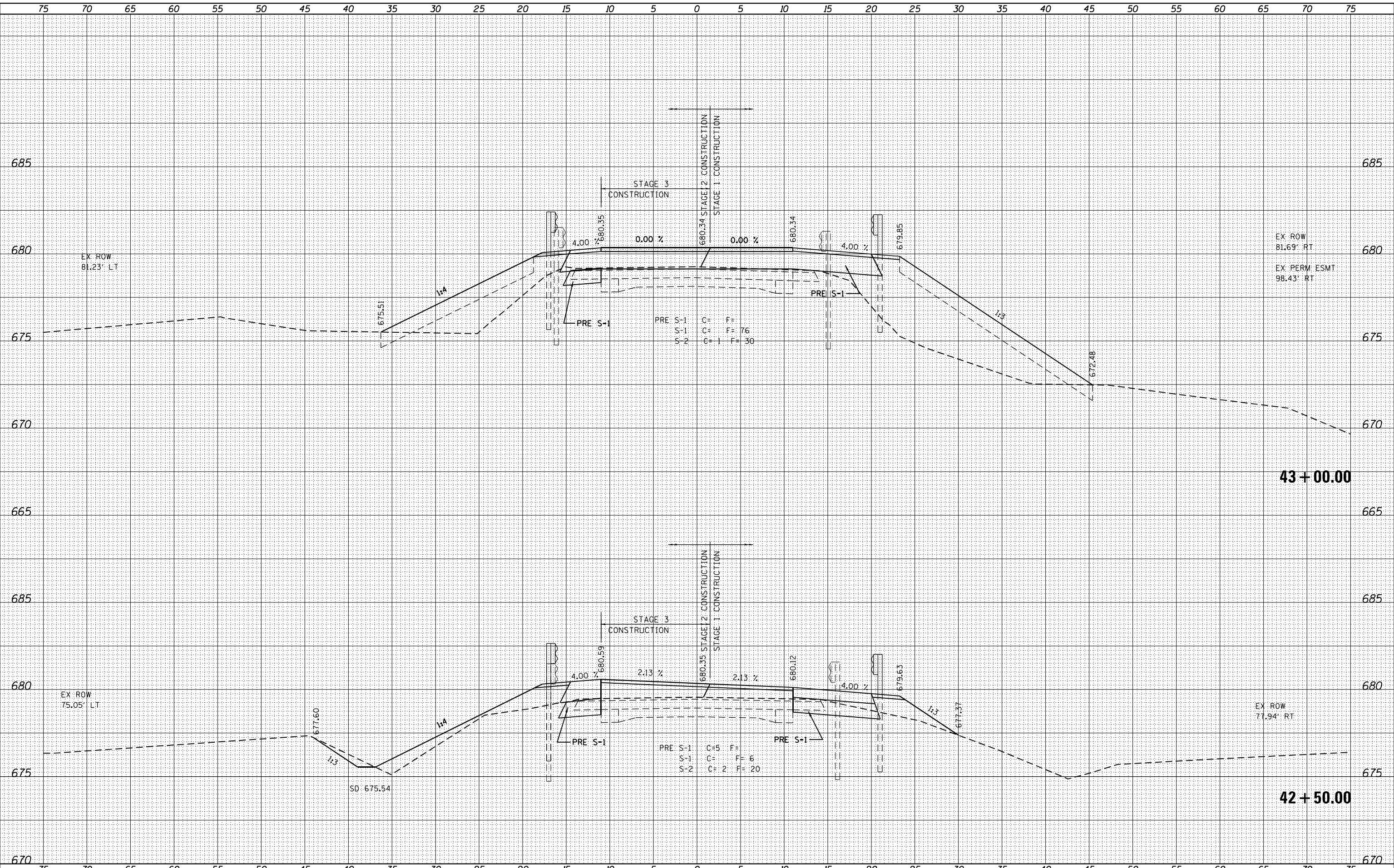
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16((CR)	*	142	83
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
MONTGOMERY & CHRISTIAN				

FEHR GRAHAM PROJECT NUMBER: 10005-2

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

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

MODEL: Definit
 FILE NAME: W:\CHIEF\ED\Drawings\11\restoration\11-17-11\11B\CAD\DATA_S1_065-000\11c67298-dmr-ss1-es-3509.dgn



USER NAME = mescahl
PLOT SCALE = 10,000,000' / in.
PLOT DATE = 5/9/2023

DESIGNED -	REVISD -
DRAWN - CFC	REVISD -
CHECKED - MCB	REVISD -
DATE -	REVISD -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS IL 16 SN 068-2509			
SCALE:	SHEET 5	OF 11 SHEETS	STA. TO STA.

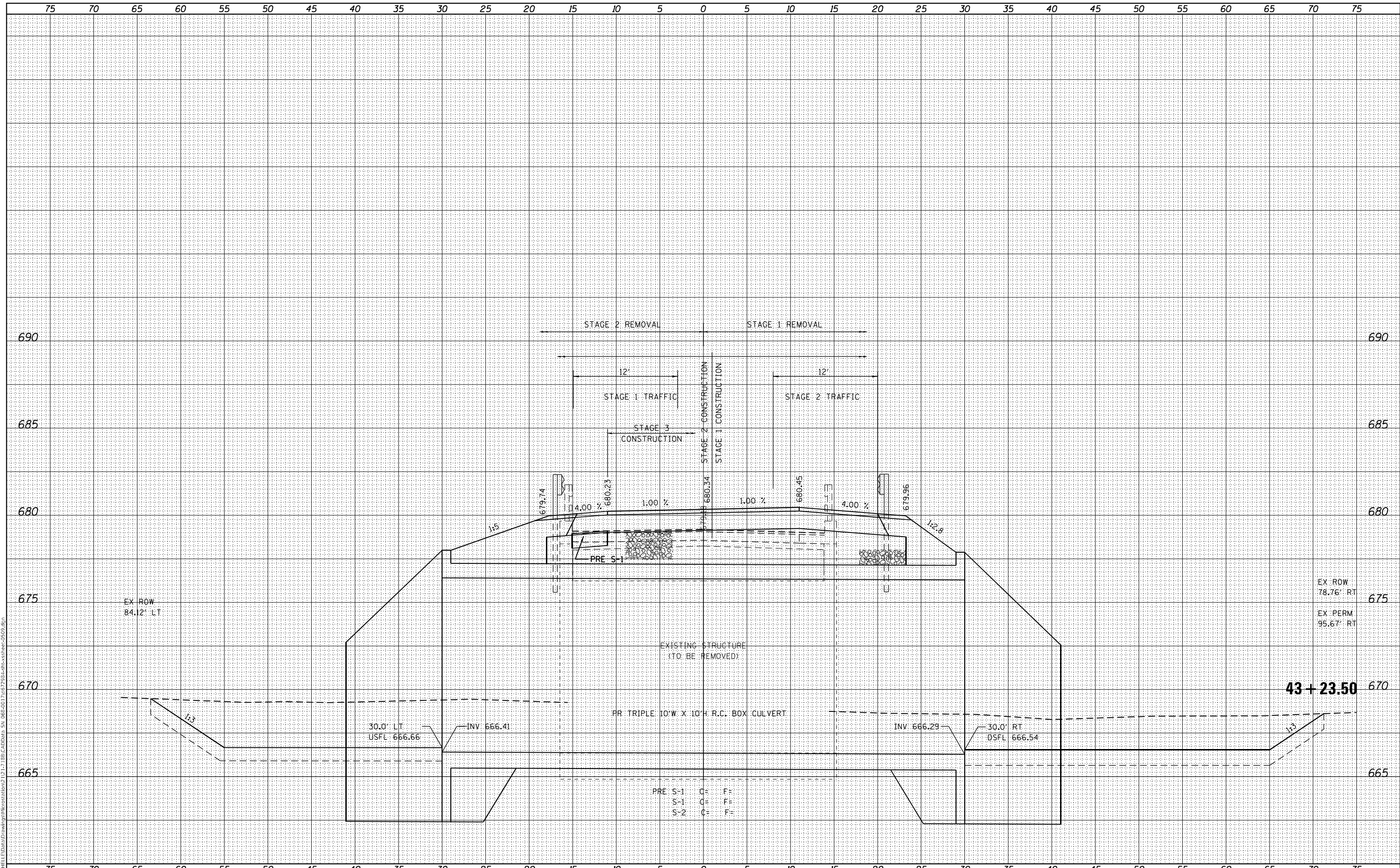
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	84
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
MONTGOMERY & CHRISTIAN				

FEHR GRAHAM PROJECT NUMBER: 10005-2

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

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

MODEL: Definit
 FILE NAME: W:\CHIEF\Drawings\Restoration\17171718\CAD\Drawn_S1_08-000\17171718-08-000.dwg
 USER: mescahel



PRE S-1 C= F=
 S-1 C= F=
 S-2 C= F=

USER NAME	= mescahel
DESIGNED	-
DRAWN	- CFC
PLOT SCALE	= 10,000,000 ' / in.
CHECKED	- MCB
PLOT DATE	= 5/8/2023
DATE	-

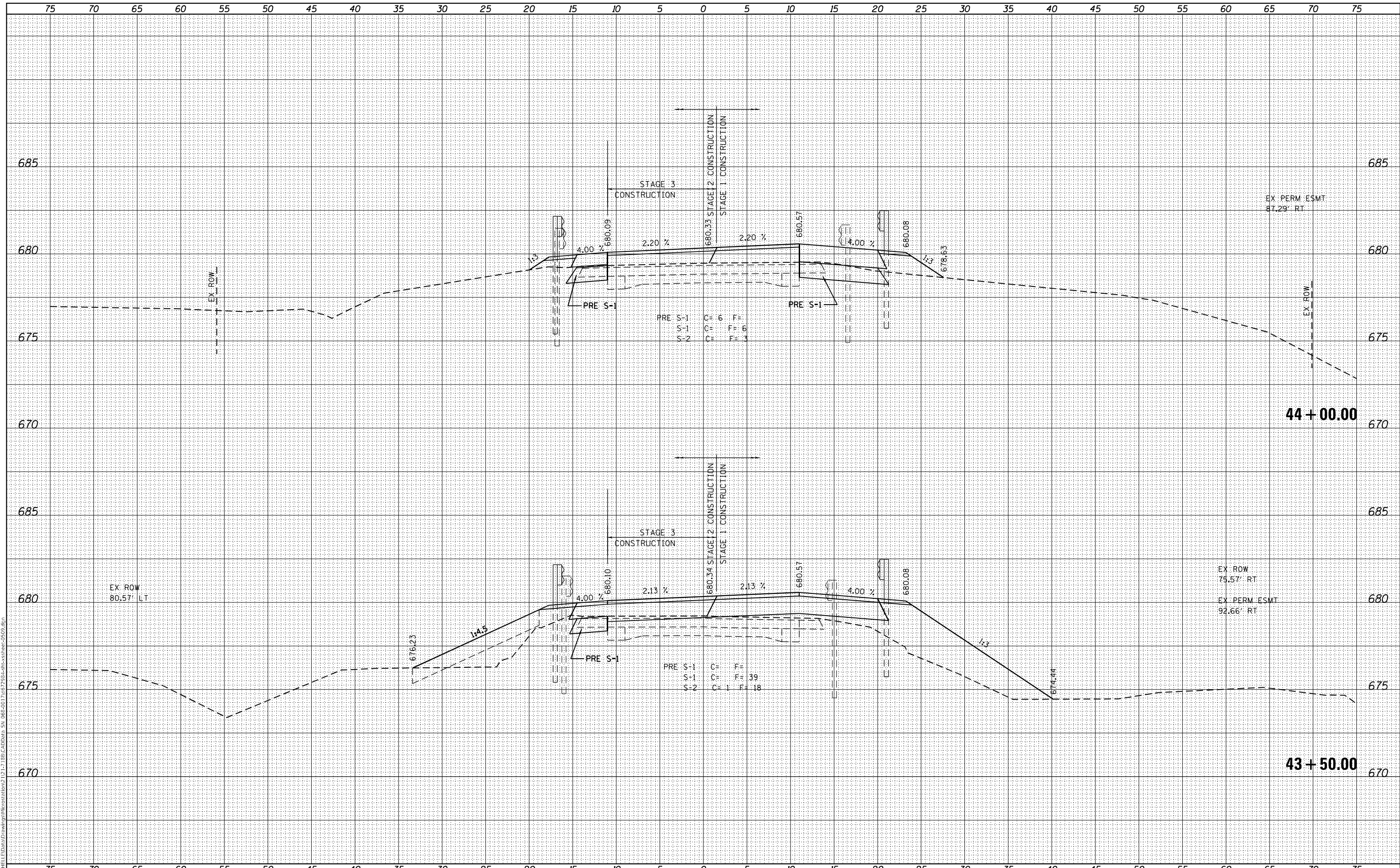
REVISD	-
REVISD	-
REVISD	-
REVISD	-

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	85
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
MONTGOMERY & CHRISTIAN				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	
NO.	

MODEL: Definit
FILE NAME: W:\CHIEF\ED\Drawings\Restoration\17171718\CAD\Drawn_S1_065-001\17171718\17171718\17171718\17171718.dwg



USER NAME = mescahel
DESIGNED -
DRAWN - CFC
CHECKED - MCB
DATE -
PLOT SCALE = 10,000,000' / in.
PLOT DATE = 5/9/2023

DESIGNED -
REVISIONS
REVISIONS
REVISIONS
REVISIONS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

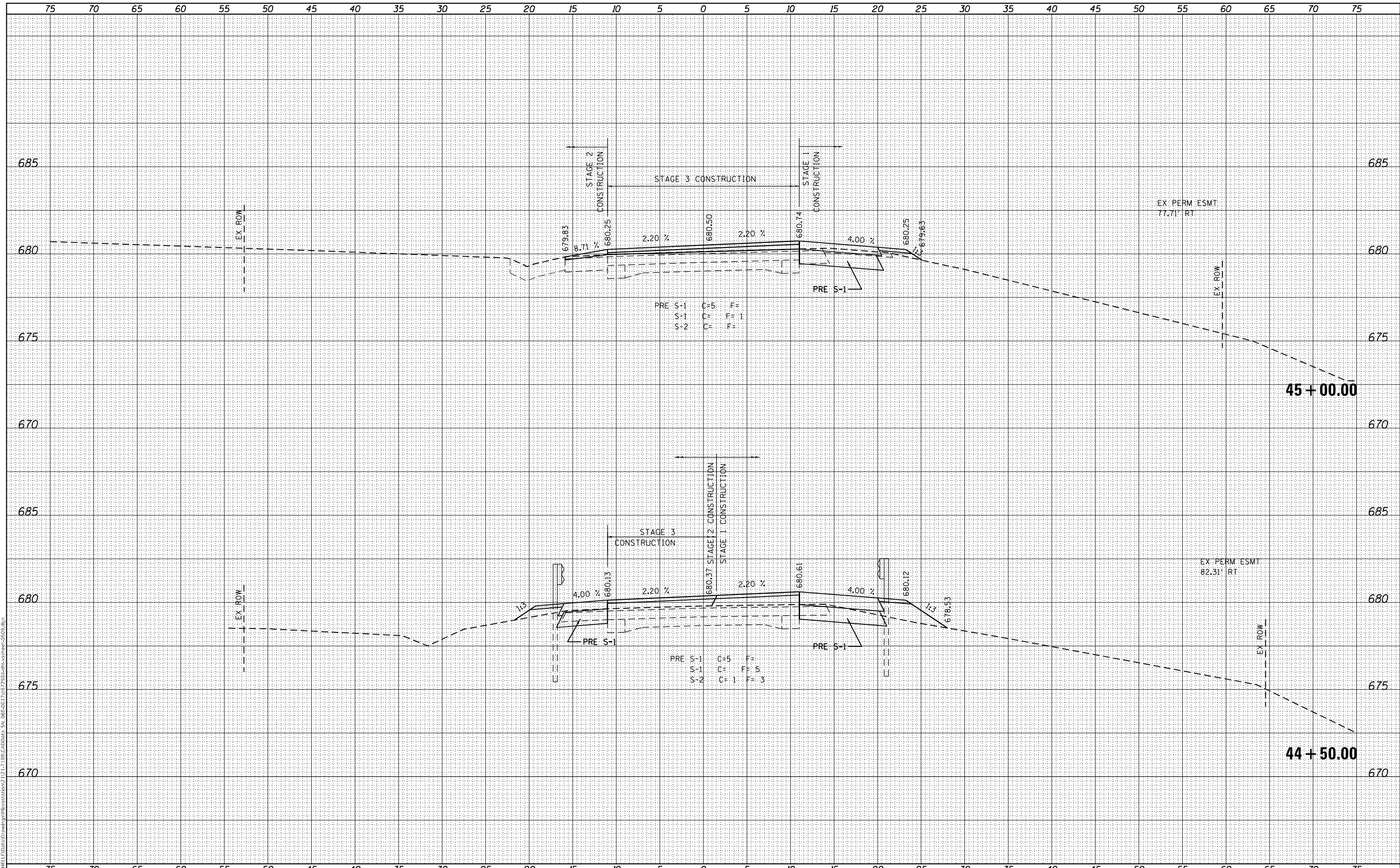
CROSS SECTIONS
IL 16 SN 068-2509
SCALE: SHEET 7 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	86
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
MONTGOMERY & CHRISTIAN				

DATE	BY
SURVEYED	PLOTTED
TEMPLATE	AREAS CHECKED
NO.	
FINAL SURVEY	NO. 1
NOTE BOOK	
NO.	

DATE	BY
SURVEYED	PLOTTED
TEMPLATE	AREAS CHECKED
NO.	
ORIGINAL SURVEY	NO. 1
NOTE BOOK	
NO.	

MODEL: Definit
 FILE NAME: W:\CHIEF\ED\Drawings\16\restoration\17\17-188\CAD\DATA_S1_065-000\17c62798-dm-ss1-see-3609.dgn



FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525
 FEHR GRAHAM PROJECT NUMBER: 10005-2

USER NAME = mescalet	DESIGNED -	REVISED -
PLOT SCALE = 10,000,000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 16 SN 068-2509**

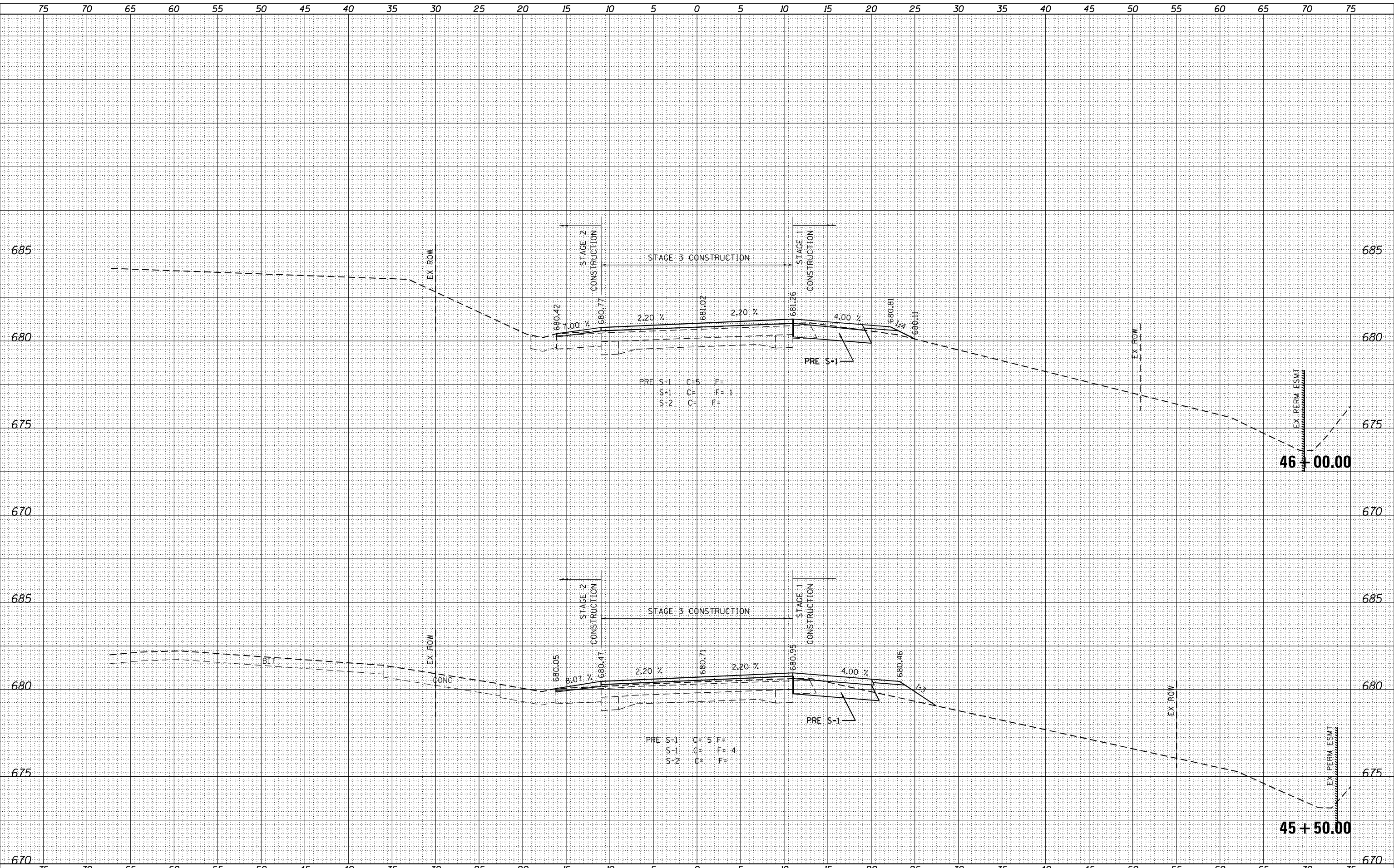
SCALE: SHEET 8 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	87
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
MONTGOMERY & CHRISTIAN				

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

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

MODEL: Definit
 FILE NAME: W:\CHIEF\ED\Drawings\Restoration\171718\CAD\Drawn_S1_065-001\17182798.dwg
 USER: mescalet



FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525
 FEHR GRAHAM PROJECT NUMBER: 10005-2

DESIGNED -	REVISIED -
DRAWN - CFC	REVISIED -
CHECKED - MCB	REVISIED -
DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

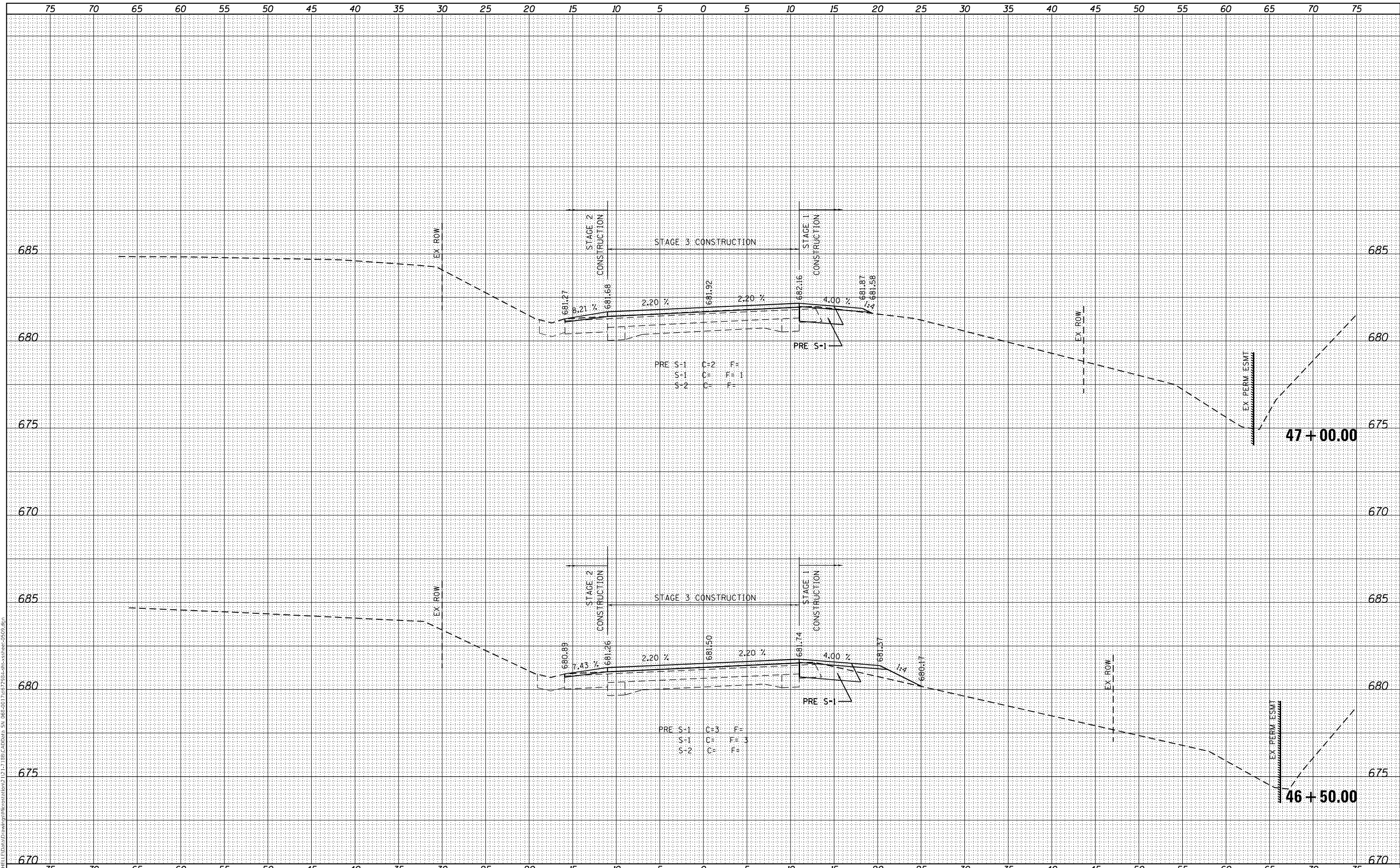
CROSS SECTIONS			
IL 16 SN 068-2509			
SCALE:	SHEET 9	OF 11 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	88
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
MONTGOMERY & CHRISTIAN				

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

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

MODEL: Definit
 FILE NAME: W:\CHIEF\ED\Drawings\Restoration\171718\CAD\Drawn_S1_065-001\162798-Sub-Cross-Sections-3509.dgn



FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525
 FEHR GRAHAM PROJECT NUMBER: 10005-2

USER NAME = mescatel	DESIGNED -	REVISIED -
PLOT SCALE = 10,000,000 ' / in.	DRAWN - CFC	REVISIED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

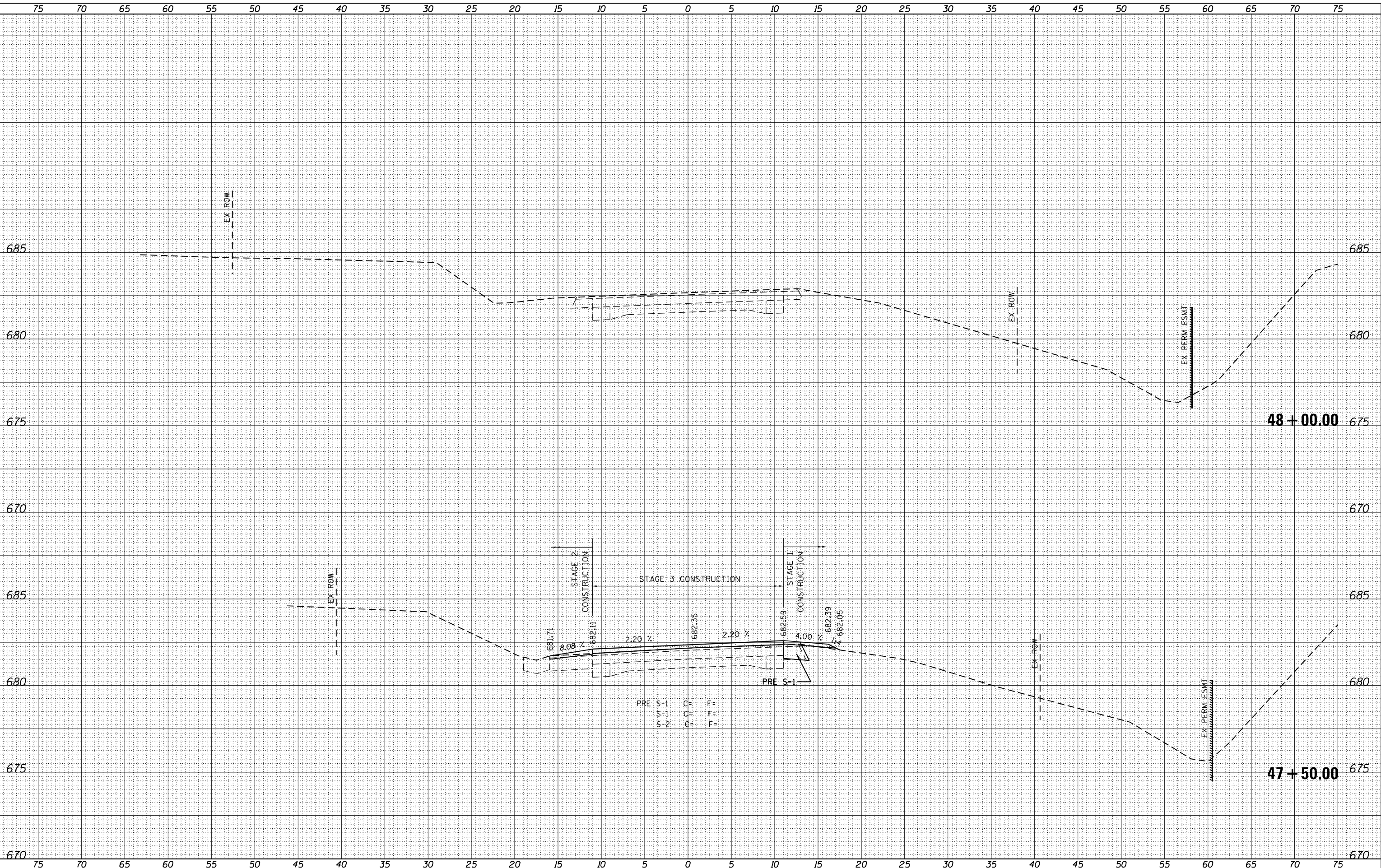
CROSS SECTIONS			
IL 16 SN 068-2509			
SCALE:	SHEET 10	OF 11 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	89
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
MONTGOMERY & CHRISTIAN				

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

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

MODEL: Defm.dwg
FILE NAME: W:\CHIEF\ED\Drawings\Information\IL16\068-2509-11\68-2509-11\68-CAD\Drawn_S1_068-2509-11\68-CAD\Drawn_S1_068-2509-11\68-2509-11.dwg



FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525
FEHR GRAHAM PROJECT NUMBER: 10005-2

USER NAME = mescahal
DESIGNED -
DRAWN - CFC
PLLOT SCALE = 10,000,000' / in.
CHECKED - MCB
PLLOT DATE = 5/9/2023
DATE -

DESIGNED -
DRAWN - CFC
CHECKED - MCB
DATE -

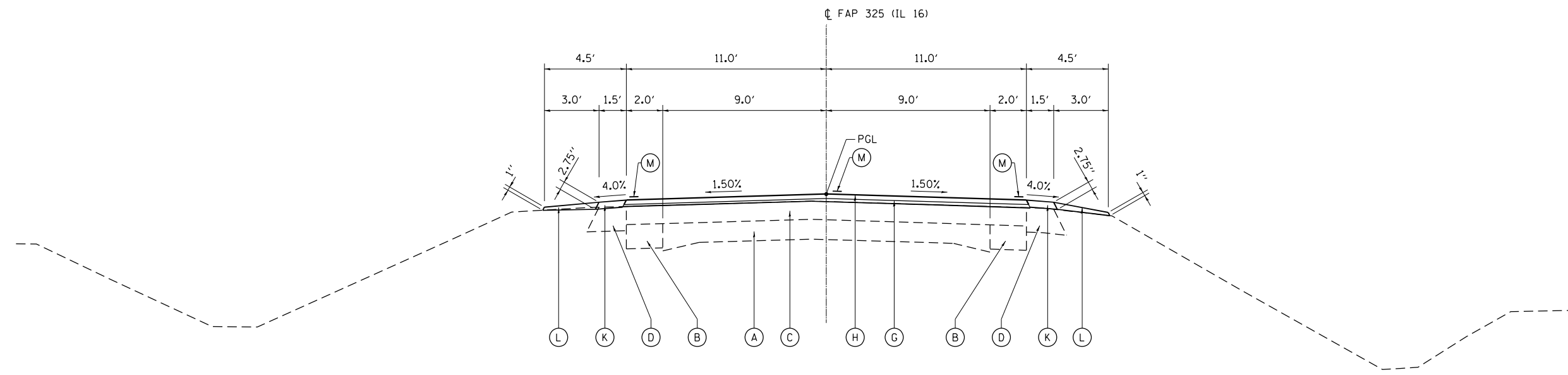
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
IL 16 SN 068-2509**

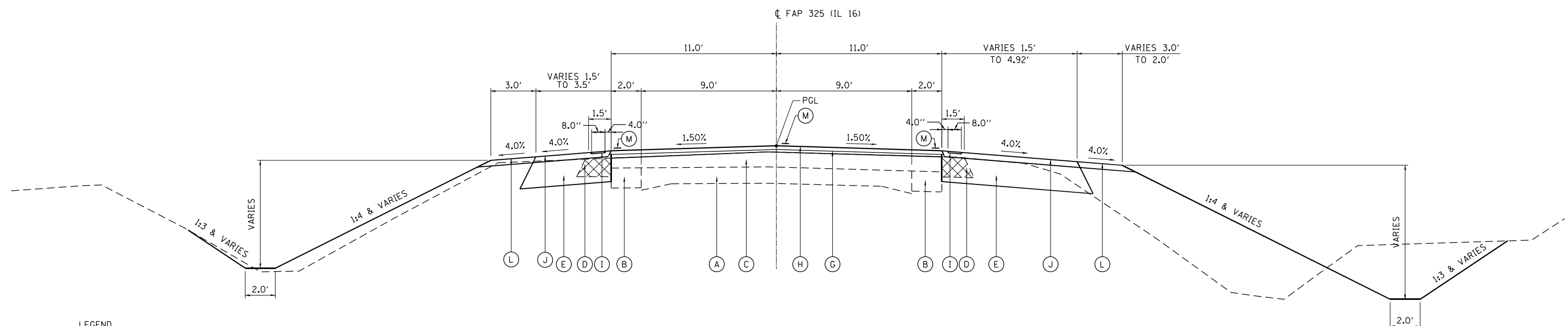
SCALE: SHEET 11 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	90
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
* MONTGOMERY & CHRISTIAN				



FAP ROUTE 325 (IL 16)

STA 138+00.00 - 138+75.00, LT
 STA 147+12.50 - 148+00.00, RT
 STA 147+87.50 - 148+00.00, LT



FAP ROUTE 325 (IL 16)

STA 138+00.00 - 138+92.00, RT
 STA 138+75.00 - 139+28.33, LT
 STA 146+20.50 - 147+12.50, RT
 STA 147+34.17 - 147+87.50, LT

LEGEND

- (A) EX PCC PAVEMENT, 9-6-9
- (B) EX PCC BASE COURSE WIDENING, 8"
- (C) EX HMA SURFACE, 6"
- (D) EX HMA SHOULDERS, 8" & VARIES
- (E) PR HMA BASE COURSE, 8"
- (F) PR HMA BINDER COURSE, IL-19.0, N50, VAR DEPTH
- (G) PR HMA BINDER COURSE IL-9.5 FG, N50, 1 1/4"
- (H) PR HMA SURFACE COURSE, MIX "C", N50, 1 1/2"
- (I) PR SHOULDER RUMBLE STRIPS, 8 INCH
- (J) PR HMA SHOULDERS, VAR DEPTH (2 3/4" MIN)
- (K) PR HMA SHOULDERS, 2 3/4"
- (L) PR AGGREGATE SHOULDERS, TYPE B
- (M) PR PAINT PAVEMENT MARKING LINE, 5"
- (N) PR STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS
- (O) PR STRONG POST GUARDRAIL, ATTACHED TO CULVERT
- (P) PR GRANULAR CULVERT BACKFILL
- (R) PR BASE COURSE, OPTION 8"
- (S) PR STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS

MODEL: D:\p\h\p\...
 FILE NAME: W:\CHEL\ED\DATA\Drawings\Microstation\211211718B\CADD\DATA_S\068-0016\CADD\Revised\672984-RT-PAV-0508.dgn



USER NAME = mescaat	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 */ in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

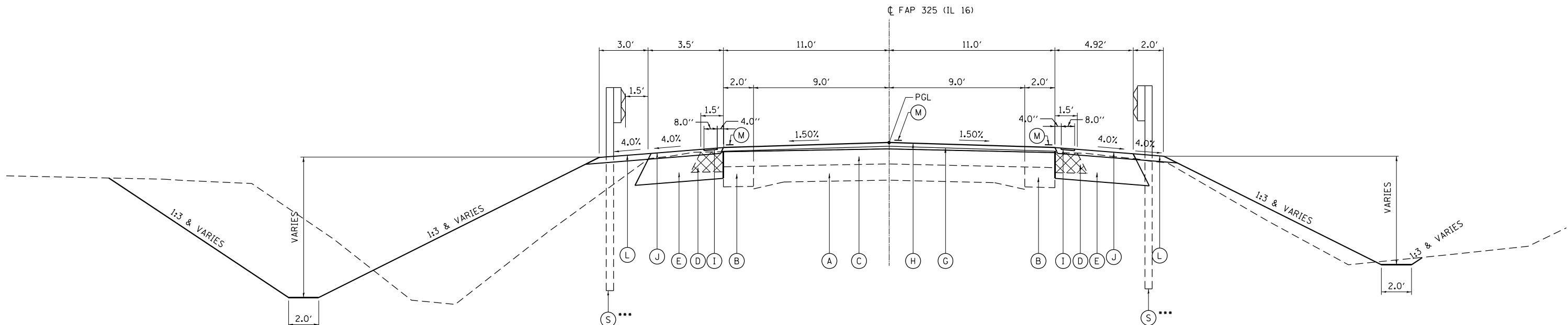
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
 IL 16 SN 068-2508**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	91
CONTRACT NO. 72984				

ILLINOIS FED. AID PROJECT MONTGOMERY & CHRISTIAN

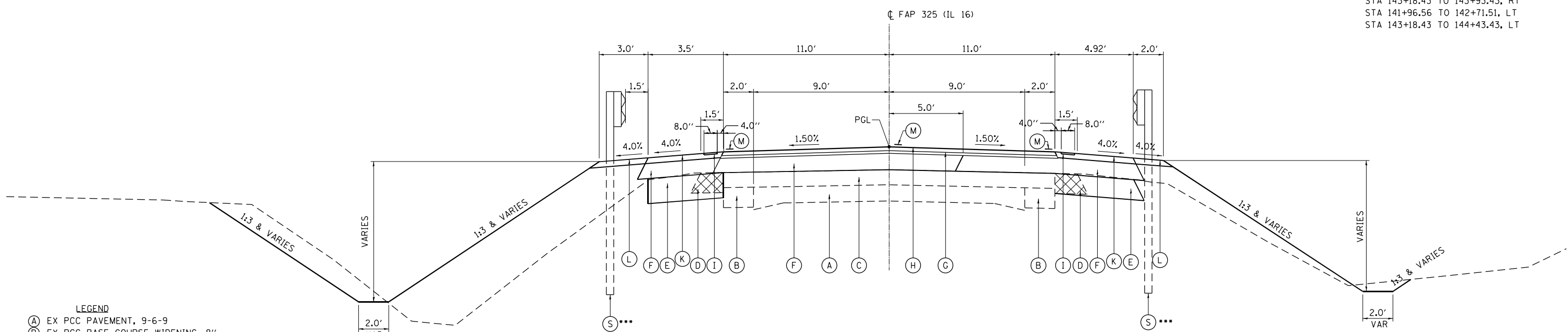


FAP ROUTE 325 (IL 16)

STA 138+92.00 - 141+50.00, RT
 STA 139+28.33 - 141+50.00, LT
 STA 144+50.00 - 146+20.50, RT
 STA 144+50.00 - 147+34.17, LT

GUARDRAIL

*** STA 141+46.56 TO 142+71.51, RT
 STA 143+18.43 TO 143+93.43, RT
 STA 141+96.56 TO 142+71.51, LT
 STA 143+18.43 TO 144+43.43, LT



FAP ROUTE 325 (IL 16)

STA 141+50.00 - 142+60.00
 STA 143+28.00 - 144+50.00

- LEGEND**
- (A) EX PCC PAVEMENT, 9-6-9
 - (B) EX PCC BASE COURSE WIDENING, 8"
 - (C) EX HMA SURFACE, 6"
 - (D) EX HMA SHOULDERS, 8" & VARIES
 - (E) PR HMA BASE COURSE 8"
 - (F) PR HMA BINDER COURSE, IL-19.0, N50, VAR DEPTH
 - (G) PR HMA BINDER COURSE IL-9.5 FG, N50, 1 1/4"
 - (H) PR HMA SURFACE COURSE, MIX "C", N50, 1 1/2"
 - (I) PR SHOULDER RUMBLE STRIPS, 8 INCH
 - (J) PR HMA SHOULDERS, VAR DEPTH (2 3/4" MIN)
 - (K) PR HMA SHOULDERS, 2 3/4"
 - (L) PR AGGREGATE SHOULDERS, TYPE B
 - (M) PR PAINT PAVEMENT MARKING LINE, 5"
 - (N) PR STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS
 - (O) PR STRONG POST GUARDRAIL, ATTACHED TO CULVERT
 - (P) PR GRANULAR CULVERT BACKFILL
 - (R) PR BASE COURSE, OPTION 8"
 - (S) PR STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS



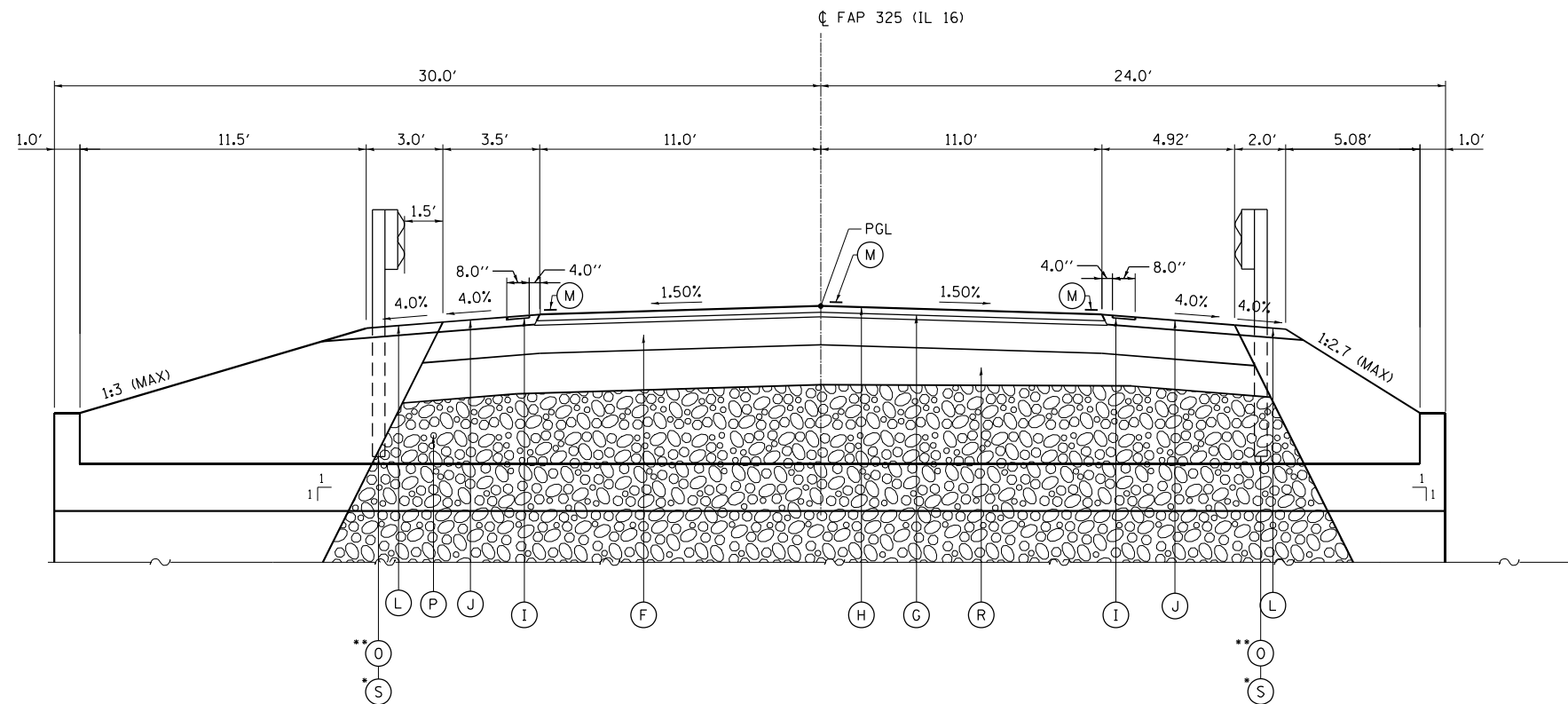
USER NAME = mescaat	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
 IL 16 SN 068-2508

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	92
CONTRACT NO. 72984				



FAP ROUTE 325 (IL 16)

STA 142+60.00 TO STA 143+28.00

GUARDRAIL

* STA 142+60.00 TO 142+71.56 LT & RT
 STA 143+18.43 TO 143+28.00 LT & RT

** STA 142+71.56 TO 143+18.43 LT & RT

LEGEND

- (A) EX PCC PAVEMENT, 9-6-9
- (B) EX PCC BASE COURSE WIDENING, 8"
- (C) EX HMA SURFACE, 6"
- (D) EX HMA SHOULDERS, 8" & VARIES
- (E) PR HMA BASE COURSE, 8"
- (F) PR HMA BINDER COURSE, IL-19.0, N50, VAR DEPTH
- (G) PR HMA BINDER COURSE IL-9.5 FG, N50, 1 1/4"
- (H) PR HMA SURFACE COURSE, MIX "C", N50, 1 1/2"
- (I) PR SHOULDER RUMBLE STRIPS, 8 INCH
- (J) PR HMA SHOULDERS, VAR DEPTH (2 3/4" MIN)
- (K) PR HMA SHOULDERS, 2 3/4"
- (L) PR AGGREGATE SHOULDERS, TYPE B
- (M) PR PAINT PAVEMENT MARKING LINE, 5"
- (N) PR STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS
- (O) PR STRONG POST GUARDRAIL, ATTACHED TO CULVERT
- (P) PR GRANULAR CULVERT BACKFILL
- (R) PR BASE COURSE, OPTION 8"
- (S) PR STEEL PLATE BEAM GUARDRAIL, TYPE A, 9' POSTS

MODEL: D:\ef\h\...
 FILE NAME: W:\C\H\EL\ED\ata\Drawings\Microstation\211212118B\CADD\sta SN_066-00\B\CADD\Reest\672884-ent\tr\p\icaf-0508.dgn



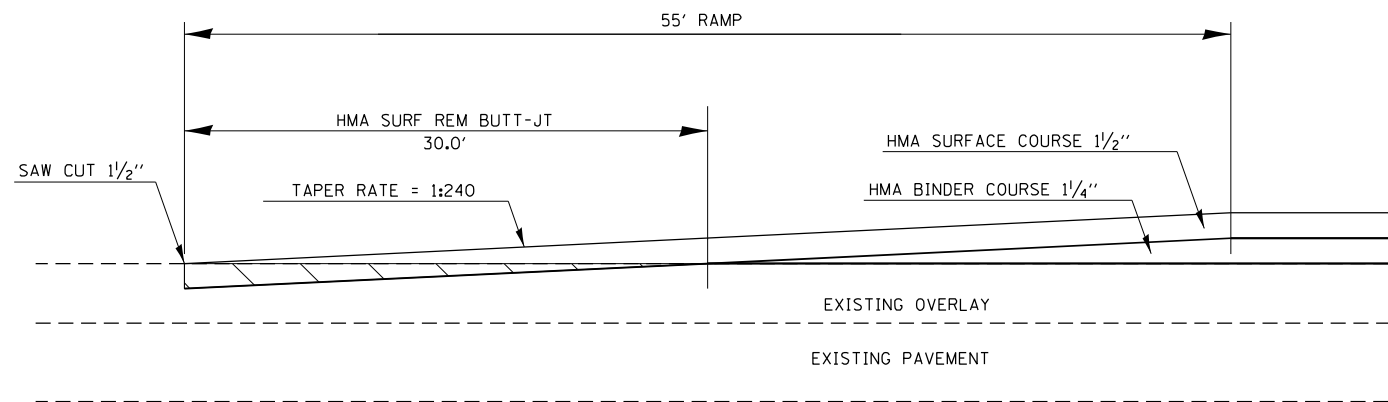
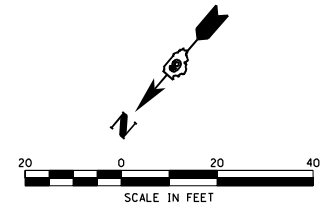
USER NAME = mesca1	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
 IL 16 SN 068-2508

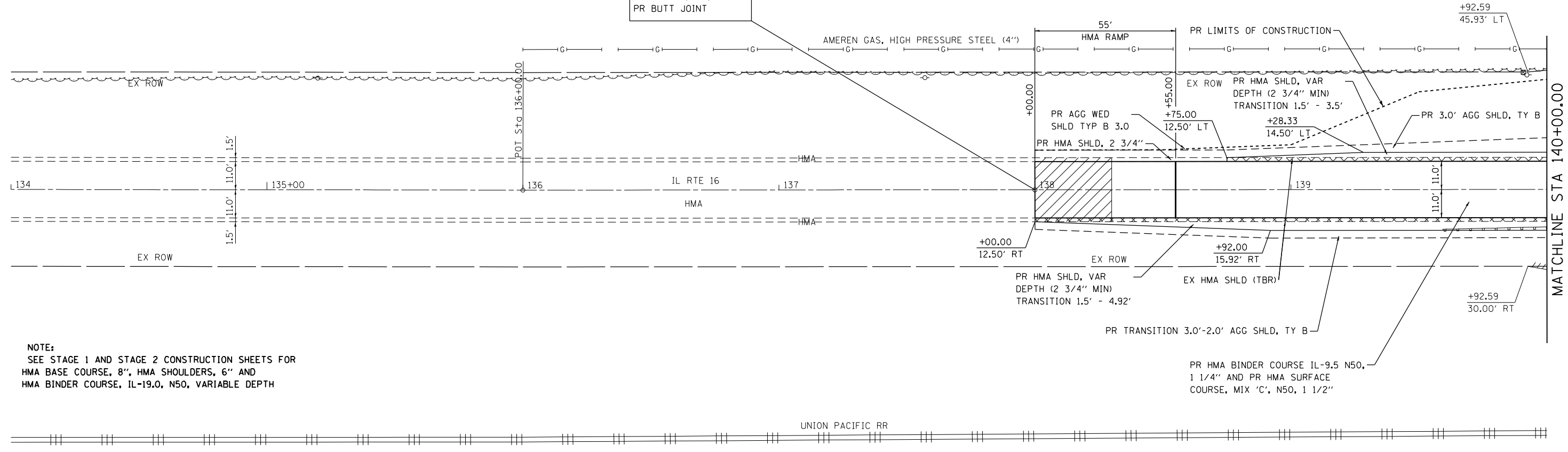
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	93
CONTRACT NO. 72984				



RAMP DETAIL
STA. 138+00.00 TO STA. 138+55.00

STA 138+00.00
END PROJECT OMISSION
SEC 18(B-2,B-3); 16(CR)
PR BUTT JOINT



NOTE:
SEE STAGE 1 AND STAGE 2 CONSTRUCTION SHEETS FOR
HMA BASE COURSE, 8", HMA SHOULDERS, 6" AND
HMA BINDER COURSE, IL-19.0, N50, VARIABLE DEPTH

LEGEND

- PR HMA SURFACE REMOVAL - BUTT JOINT
- PR PAVED SHOULDER REMOVAL

MODEL: Default
FILE NAME: \\03CHEL1\Drawings\Drawings\Microstation\2112-1718B\CADD\data SN_066-00\B\CADD\data\672884-1-14-bb-0508-001.dgn

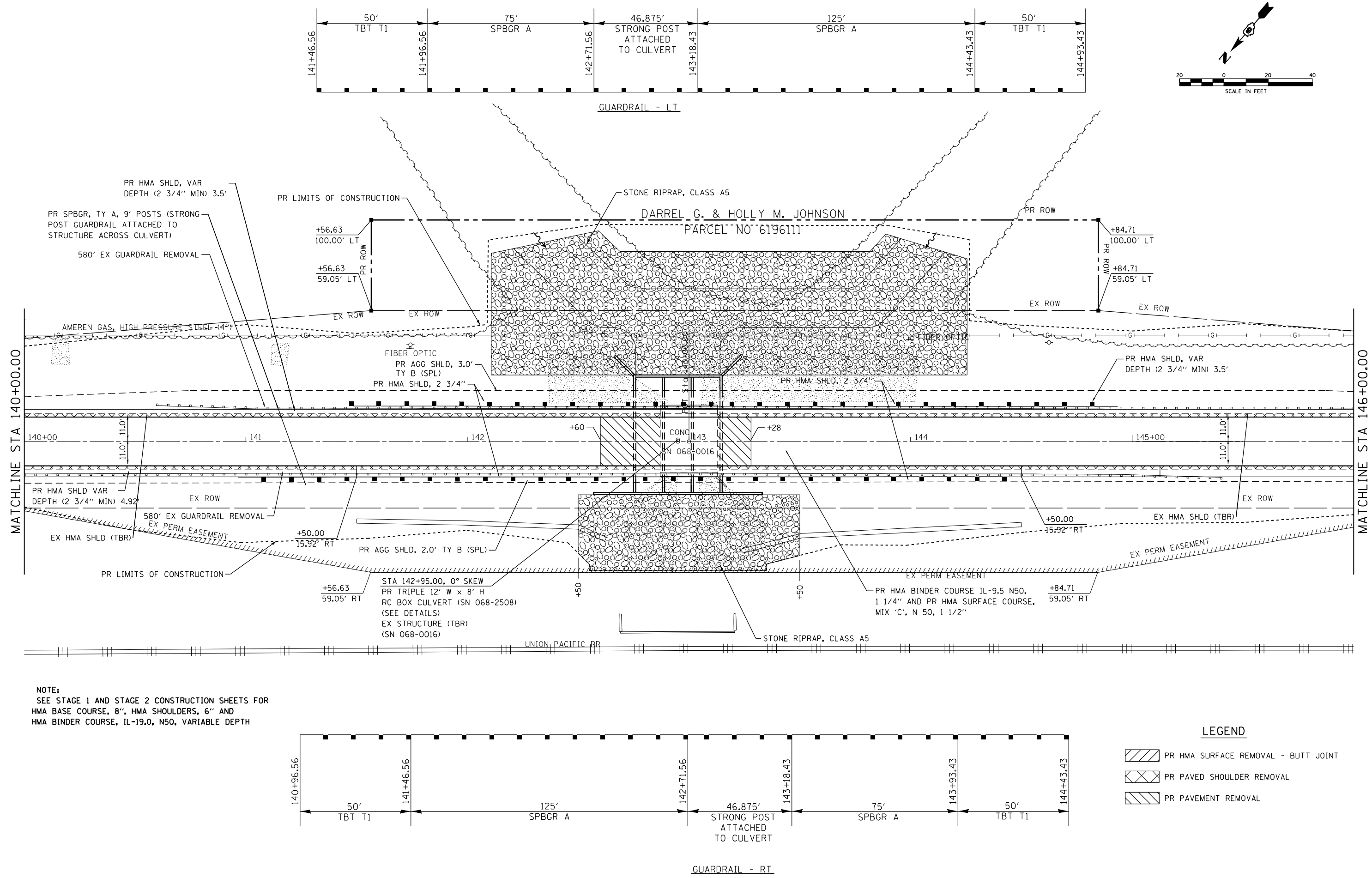
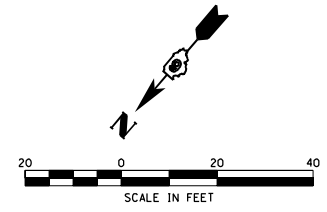


USER NAME = mesca1	DESIGNED -	REVISED -
PLOT SCALE = 40,000,000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN			
IL 16 SN 068-2508			
SCALE:	SHEET 1	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	94
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72984	



NOTE:
 SEE STAGE 1 AND STAGE 2 CONSTRUCTION SHEETS FOR
 HMA BASE COURSE, 8", HMA SHOULDERS, 6" AND
 HMA BINDER COURSE, IL-19.0, N50, VARIABLE DEPTH

LEGEND

	PR HMA SURFACE REMOVAL - BUTT JOINT
	PR PAVED SHOULDER REMOVAL
	PR PAVEMENT REMOVAL

MODEL: D:\p\h\...
 FILE NAME: W:\C\CHEL\ED\data\Drawings\Microstation\112\117188\CADD\data_S\068-0016\CADD\Sheet\0672984-2\117188-0508-002.dgn



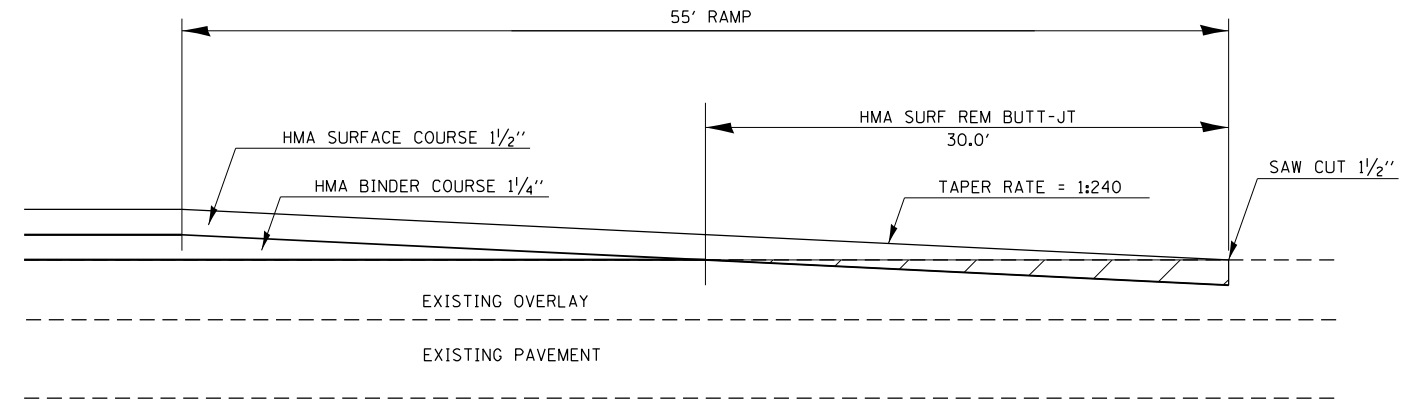
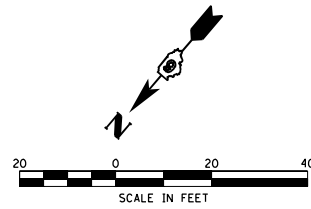
USER NAME = mescaat	DESIGNED -	REVISED -
PLOT SCALE = 40,000,000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

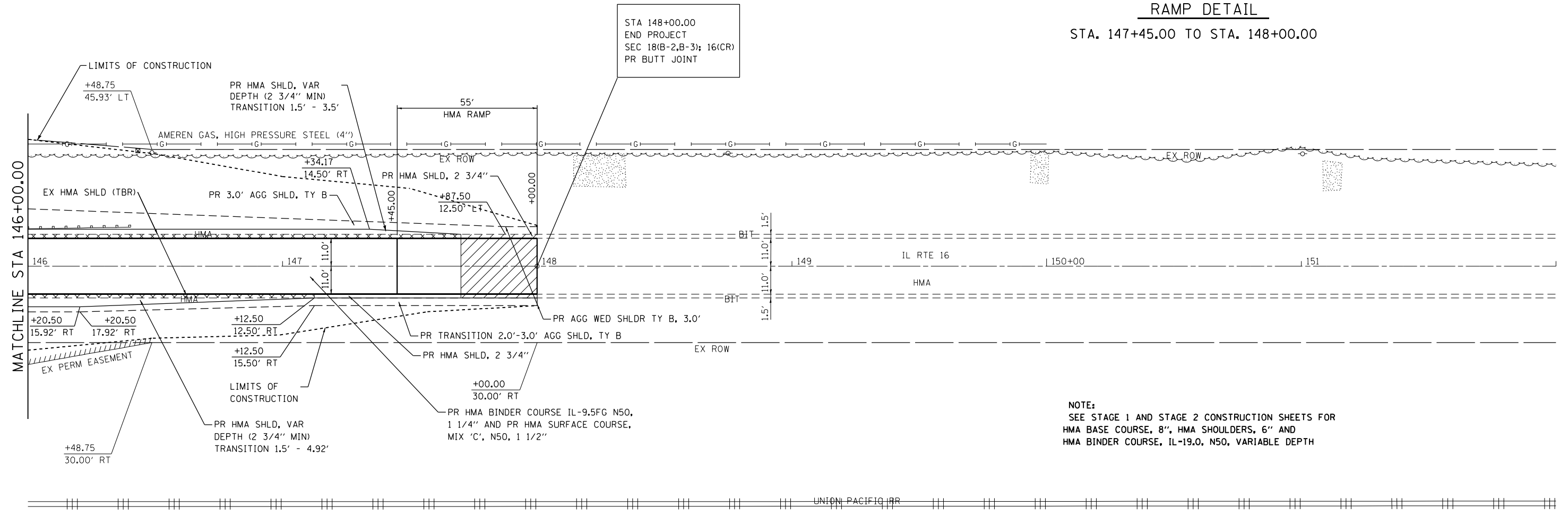
PLAN			
IL 16 SN 068-2508			
SCALE:	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	-	142	95
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

© MONTGOMERY & CHRISTIAN



RAMP DETAIL
STA. 147+45.00 TO STA. 148+00.00



NOTE:
SEE STAGE 1 AND STAGE 2 CONSTRUCTION SHEETS FOR
HMA BASE COURSE, 8", HMA SHOULDERS, 6" AND
HMA BINDER COURSE, IL-19.0, N50, VARIABLE DEPTH

LEGEND

- PR HMA SURFACE REMOVAL - BUTT JOINT
- PR PAVED SHOULDER REMOVAL

MODEL: Default
 FILE NAME: \\C:\CHEL\ED\Drawings\Microstation\112\1171881\CADD\DATA SN_065-00\16\CADD\Sheet\672884-1.dwg
 FEHR GRAHAM PROJECT NUMBER: 10005-2



USER NAME = mescaat	DESIGNED -	REVISED -
PLOT SCALE = 40,000,000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

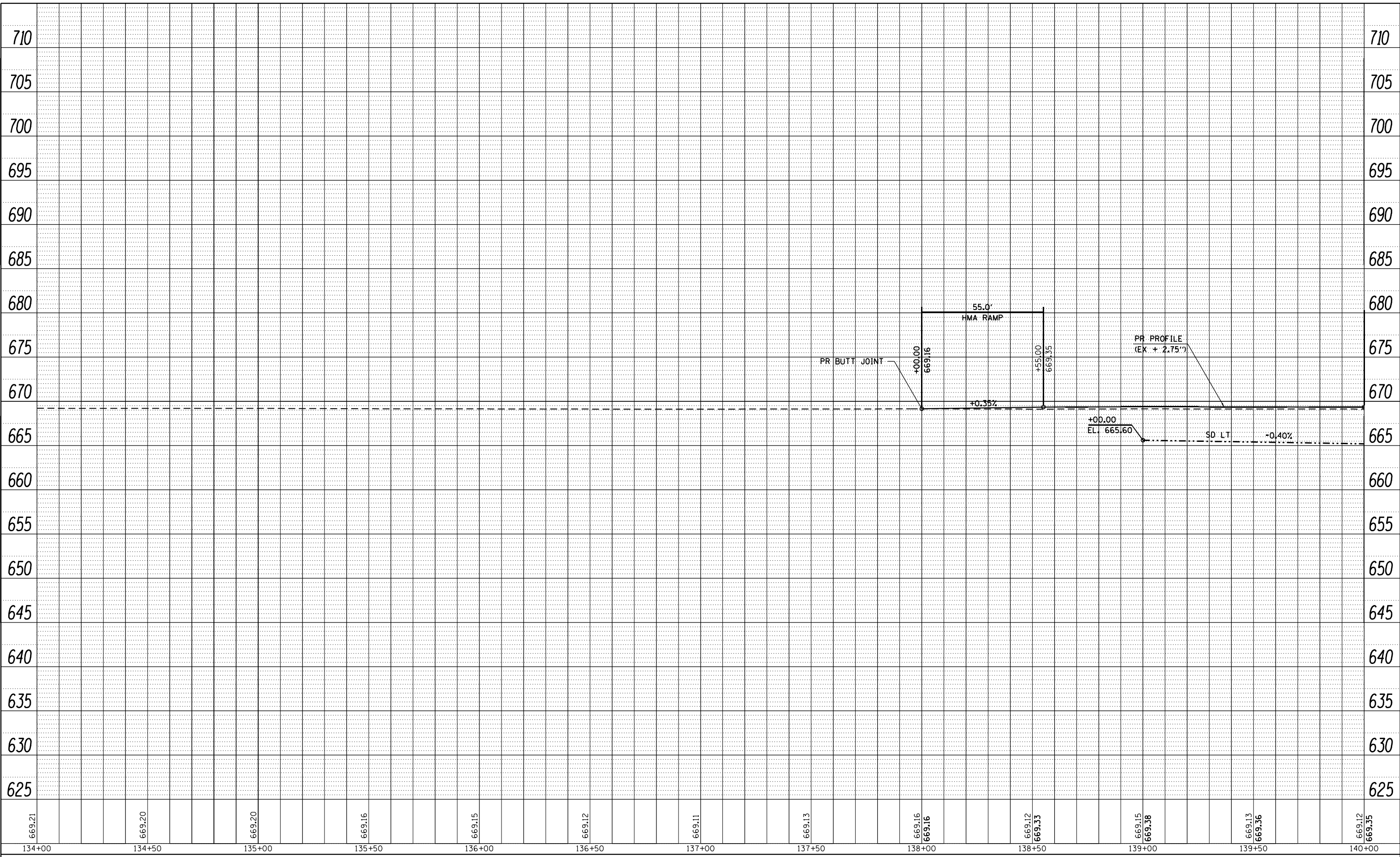
PLAN			
IL 16 SN 068-2508			
SCALE:	SHEET 3	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	96
CONTRACT NO. 72984				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

MODEL: Default
 FILE NAME: W:\068-001\068-001\Drawings\Profile\068-001-Profile-0958-001.dgn
 USER: mescaiel
 DESIGNED -
 DRAWN - CFC
 CHECKED - MCB
 DATE -
 REVISIONS:
 1. DATE: 4/7/2023
 2. BY: MCB
 3. DESCRIPTION:



FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525
 FEHR GRAHAM PROJECT NUMBER: 10005-2

USER NAME = mescaiel
PLOT SCALE = 40,000000 ' / in.
PLOT DATE = 4/7/2023

DESIGNED -	REVISED -
DRAWN - CFC	REVISED -
CHECKED - MCB	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET 1	OF 3	SHEETS	STA.	TO STA.
--------	--	---------	------	--------	------	---------

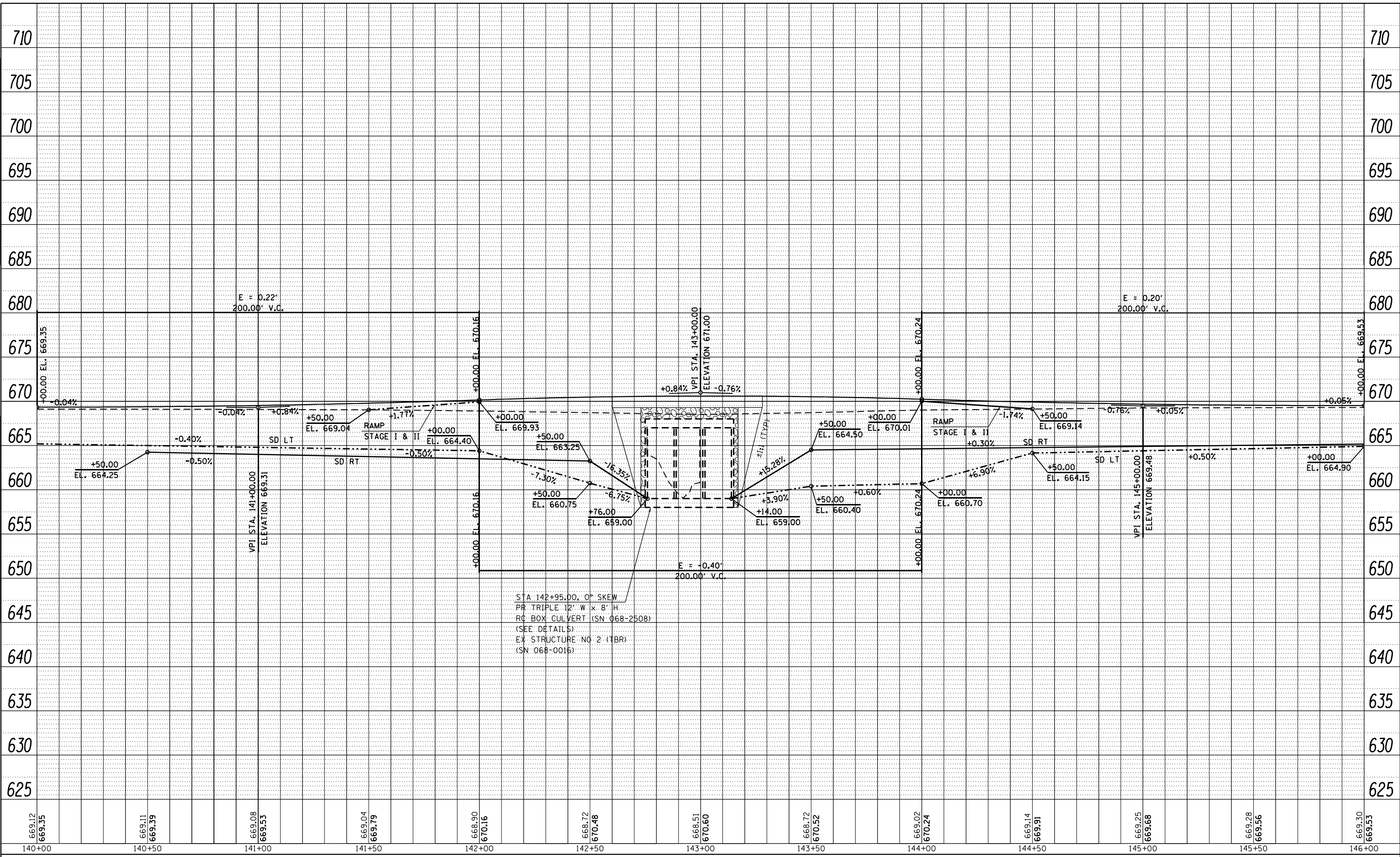
**PROFILE
 IL 16 SN 068-2508**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	97
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72984	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NOTE BOOK NO.		
	CADD FILE NAME		

MODEL: Default
 FILE NAME: W:\068-00\068-00\Drawings\Microstation\1121-1718\068-00\068-00\Profile\1121-1718-068-00-02.dgn
 USER: mescaiel
 DESIGNED: CFC
 DRAWN: CFC
 CHECKED: MCB
 DATE: 4/27/2023
 PLOT SCALE: 40,000000 * / in.
 PLOT DATE: 4/27/2023



STA 142+95.00, OP SKEW
 PR TRIPLE 12' W x 8' H
 RC BOX CULVERT (SN 068-2508)
 (SEE DETAILS)
 EX STRUCTURE NO. 2 (TBR)
 (SN 068-0015)

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525
 FEHR GRAHAM PROJECT NUMBER: 10005-2

USER NAME = mescaiel	DESIGNED -	REVISED -
	DRAWN - CFC	REVISED -
PLOT SCALE = 40,000000 * / in.	CHECKED - MCB	REVISED -
PLOT DATE = 4/27/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

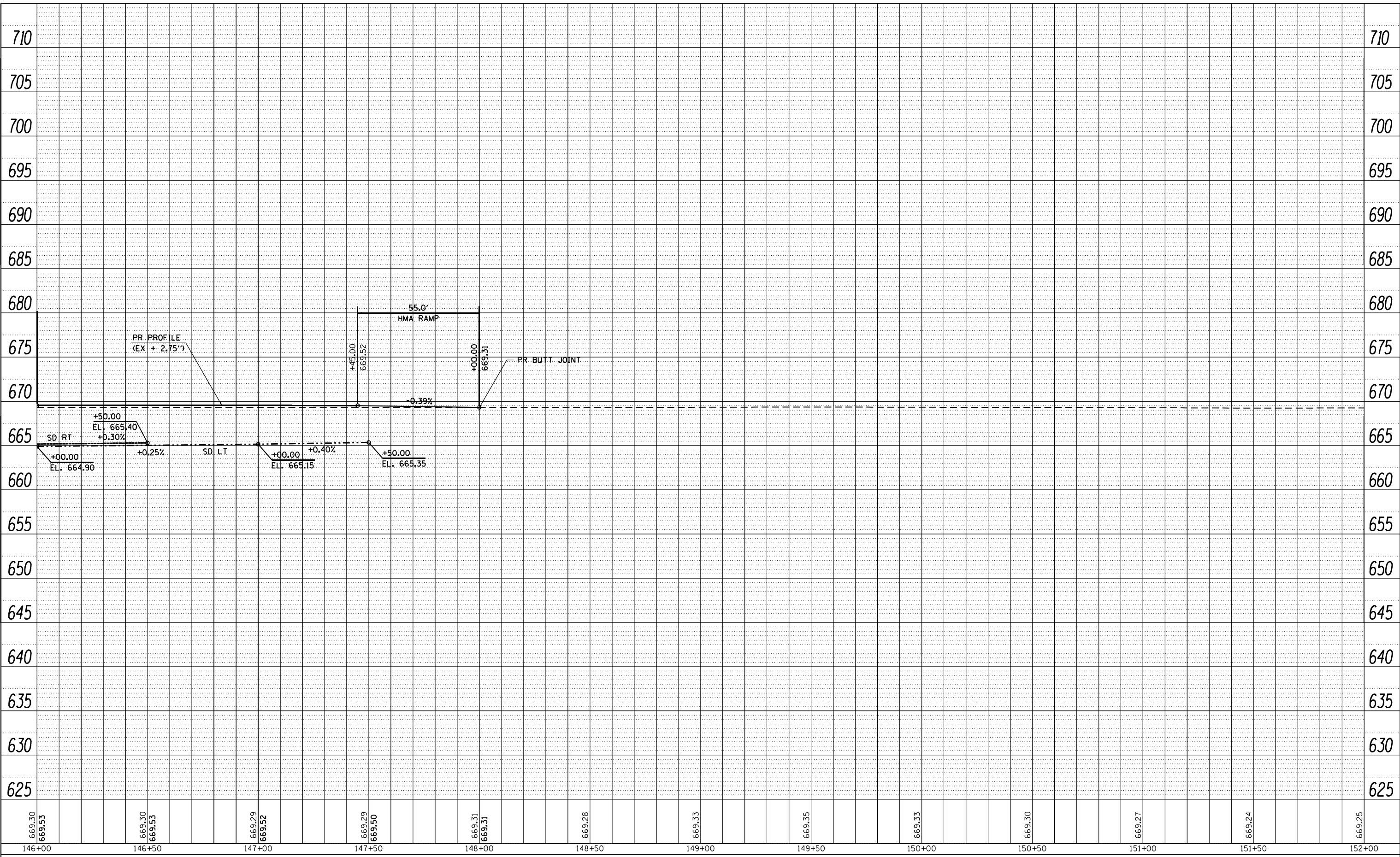
PROFILE			
IL 16 SN 068-2508			
SCALE:	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	98
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
* MONTGOMERY & CHRISTIAN				

PLAN	SURVEYED	DATE
NOTE BOOK NO.	ALIGNED	BY
	CHECKED	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	GRADES CHECKED	BY
	STRUCTURE NOTATIONS CIPWD	

MODEL: Default
 FILE NAME: W:\CCH\EL\Drawings\Drawings\1121-1718B\CADData SN 068-0010\CAD\Drawings\1121-1718B-11-profile-0918-003.dgn



669.30 669.53	146+00	669.30 669.53	146+50	669.29 669.52	147+00	669.29 669.50	147+50	669.31 669.31	148+00	669.28	148+50	669.33	149+00	669.35	149+50	669.33	150+00	669.30	150+50	669.27	151+00	669.24	151+50	669.25	152+00
------------------	--------	------------------	--------	------------------	--------	------------------	--------	------------------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525	USER NAME = mescaiel	DESIGNED -	REVISED -
	PLOT SCALE = 40,000/000' / in.	DRAWN - CFC	REVISED -
	PLOT DATE = 4/7/2023	CHECKED - MCB	REVISED -
		DATE -	REVISED -

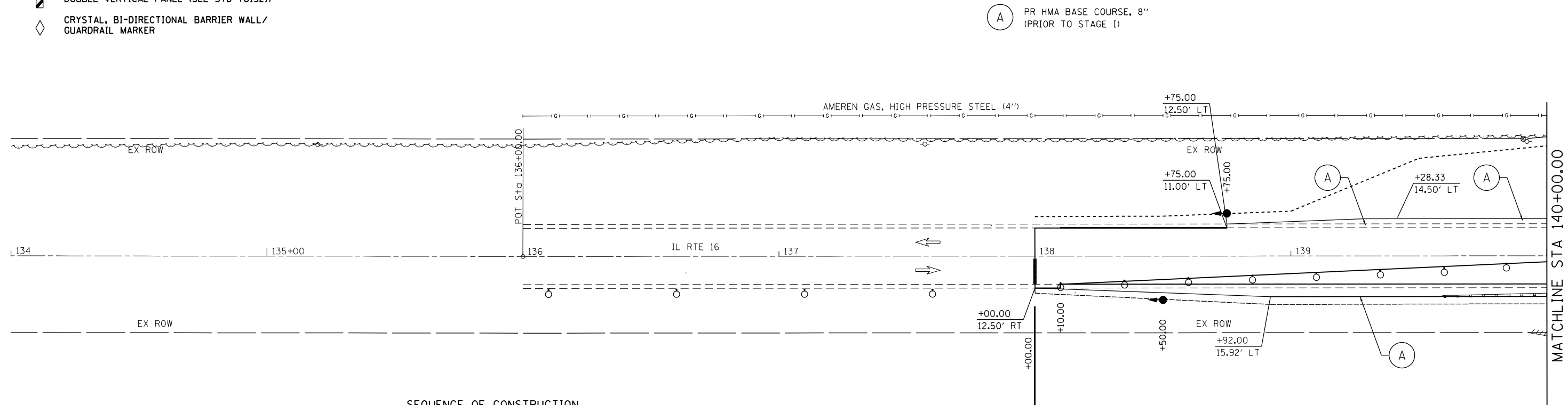
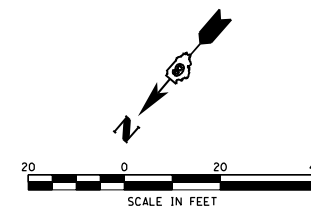
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROFILE			
IL 16 SN 068-2508			
SCALE:	SHEET 3	OF 3	SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	99
CONTRACT NO. 72984				
ILLINOIS		FED. AID PROJECT		MONTEGOMERY & CHRISTIAN

LEGEND

- WORK AREA
- SIGN (SEE STD 701321)
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TRAFFIC SIGNAL
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY (FULLY-REDIRECTIVE)
- TYPE III BARRICADE (SEE STD 701321)
- DETECTOR LOOPS (SEE STD 701321)
- DIRECTION OF TRAFFIC
- DOUBLE VERTICAL PANEL (SEE STD 701321)
- CRYSTAL, BI-DIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER



SEQUENCE OF CONSTRUCTION

PRE-STAGE I

1. INSTALL ALL NECESSARY ITEMS IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701326.
2. INSTALL TEMPORARY EROSION CONTROL AS SHOWN IN THE PLANS AS NECESSARY DURING ALL STAGES OF CONSTRUCTION.
3. CONSTRUCT HMA BASE COURSE, 8" LEFT AND RIGHT OF THE CENTERLINE.

STAGE I

1. INSTALL STAGE I TRAFFIC CONTROL AND PROTECTION AS DETAILED IN THE PLANS AND ACCORDING TO STANDARD 701321. ALSO PLACE TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
2. REMOVE CONFLICTING PAVEMENT MARKINGS, INSTALL TEMPORARY CONCRETE BARRIER, TEMPORARY IMPACT ATTENUATORS, AND TEMPORARY PAVEMENT MARKINGS. PLACE TRAFFIC IN STAGE I LANE.
3. INSTALL SOIL RETENTION SYSTEM. REMOVE STAGE I PORTION OF THE EXISTING PAVEMENT. CONSTRUCT EARTHWORK AND INSTALL TEMPORARY EROSION CONTROL RIGHT STATION 138+00 TO STATION 148+00.
4. CONSTRUCT STAGE I PORTION OF THE PROPOSED BOX CULVERT AND PAVEMENT.
5. INSTALL PROPOSED GUARDRAIL AND TERMINALS ON THE RIGHT SIDE AS SHOWN IN THE PLANS.

GENERAL NOTES

1. THIS TRAFFIC CONTROL PLAN SHALL BE USED IN CONJUNCTION WITH STANDARD 701321 AND AS DIRECTED BY THE ENGINEER.
2. VERTICAL PANELS, DRUMS WITH STEADY BURNING LIGHTS, TYPE III BARRICADES, SIGNS, DETECTOR LOOPS, TEMPORARY PAVEMENT MARKINGS, AND TYPE C BIDIRECTIONAL REFLECTORS SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION STANDARD 701321.
3. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 BUREAU OF OPERATIONS (PH: (217) 785-5306) AT LEAST SEVEN DAYS PRIOR TO IMPLEMENTING ANY STAGE I TRAFFIC CONTROL AND AT LEAST SEVEN DAYS PRIOR TO IMPLEMENTING STAGE II TRAFFIC CONTROL.
4. THE CONTRACTOR SHALL NOTIFY THE DISTRICT 6 BUREAU OF OPERATIONS (PH: (217) 785-5306) AT LEAST THREE DAYS PRIOR TO ACTIVATING THE TEMPORARY TRAFFIC SIGNALS.

NOTE A

REMAINDER OF SIGNING ACCORDING TO STANDARD 701321 TEMPORARY RUMBLE STRIPS WILL BE USED AND PLACED ACCORDING TO STANDARD 701321. ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

MODEL: D:\p\m\... FILE NAME: ... MICROSTATION... FEHR GRAHAM PROJECT NUMBER: 10005-2



USER NAME = mescaat	DESIGNED -	REVISED -
PLOT SCALE = 40,000/000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -












**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

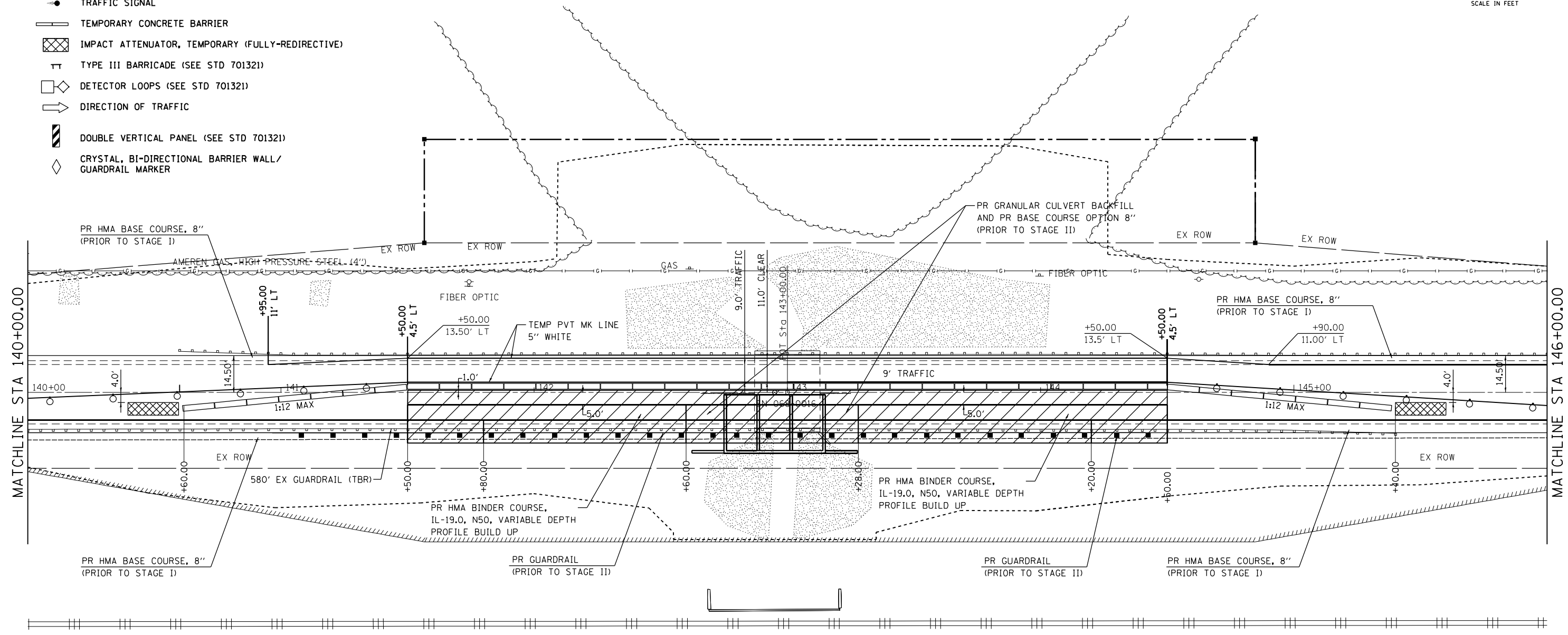
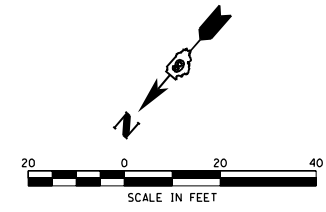
**STAGE I TRAFFIC CONTROL
IL 16 SN 068-2508**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	100
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	

LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (FULLY-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER



MODEL: Default
 FILE NAME: \\C:\CHEL\ED\Drawings\Microstation\2112-1718B\CADD\Drawings\672984-2\Stage I Traffic Control\40505-002.dwg
 FEHR GRAHAM PROJECT NUMBER: 10005-2














USER NAME = mescaie	DESIGNED -	REVISED -
PLOT SCALE = 40,000,000 * / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

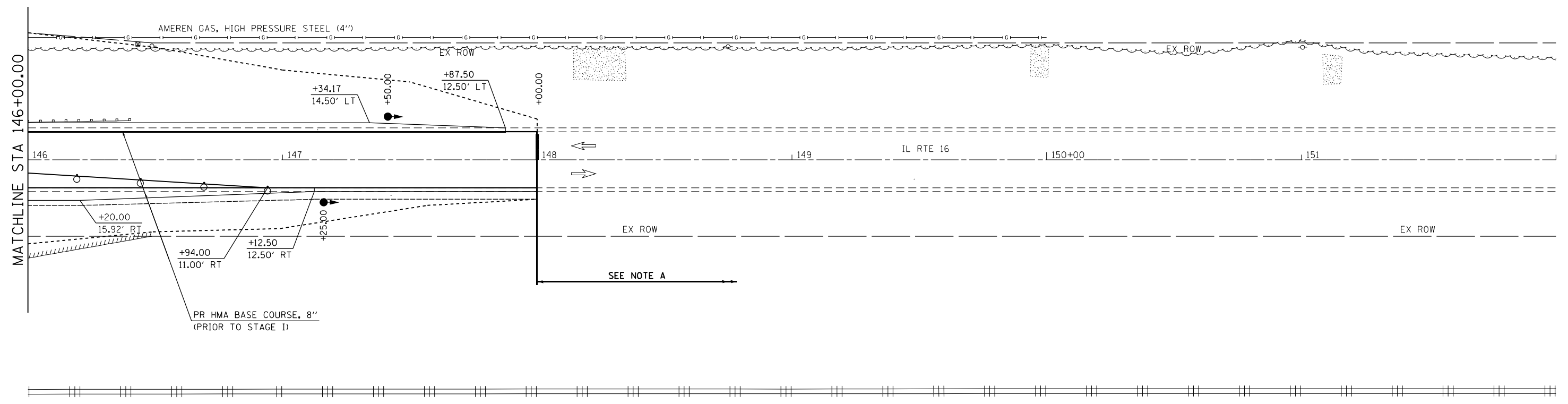
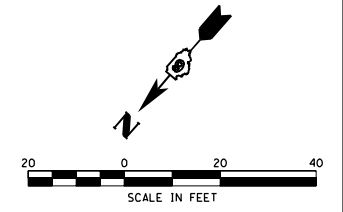
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE I TRAFFIC CONTROL			
IL 16 SN 068-2508			
SCALE:	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	101
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72984	

LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (FULLY-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER



NOTE A

REMAINDER OF SIGNING ACCORDING TO STANDARD 701321
 TEMPORARY RUMBLE STRIPS WILL BE USED AND PLACED
 ACCORDING TO STANDARD 701321.
 ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING
 TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC
 CONTROL AND PROTECTION STANDARD 701321.

MODEL Path: \\...
 FILE NAME: \\...
 FEHR GRAHAM PROJECT NUMBER: 10005-2

FEHR GRAHAM ENGINEERING & ENVIRONMENTAL ILLINOIS DESIGN FIRM NO. 184-003525	USER NAME = mescaat	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE I TRAFFIC CONTROL IL 16 SN 068-2508			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	PLOT SCALE = 40,000,000' / in.	CHECKED - MCB	REVISIED -		REVISIED -	SCALE:	SHEET 3	OF 3	SHEETS	STA.	TO STA.	325	18(B-2, B-3); 16(CR)	*	142	102
PLOT DATE = 5/9/2023	DATE -	REVISIED -	REVISIED -				CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS C/W/D		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS C/W/D		

MODEL: Default
 FILE NAME: W:\0685-00\0685-00\Drawings\Profile\0685-00-16-001.dwg
 USER: mescaiel
 PLOT SCALE = 40,0000 * / in.
 PLOT DATE = 4/7/2023



FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525
 FEHR GRAHAM PROJECT NUMBER: 10005-2

USER NAME = mescaiel	DESIGNED -	REVISED -
	DRAWN - CFC	REVISED -
	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

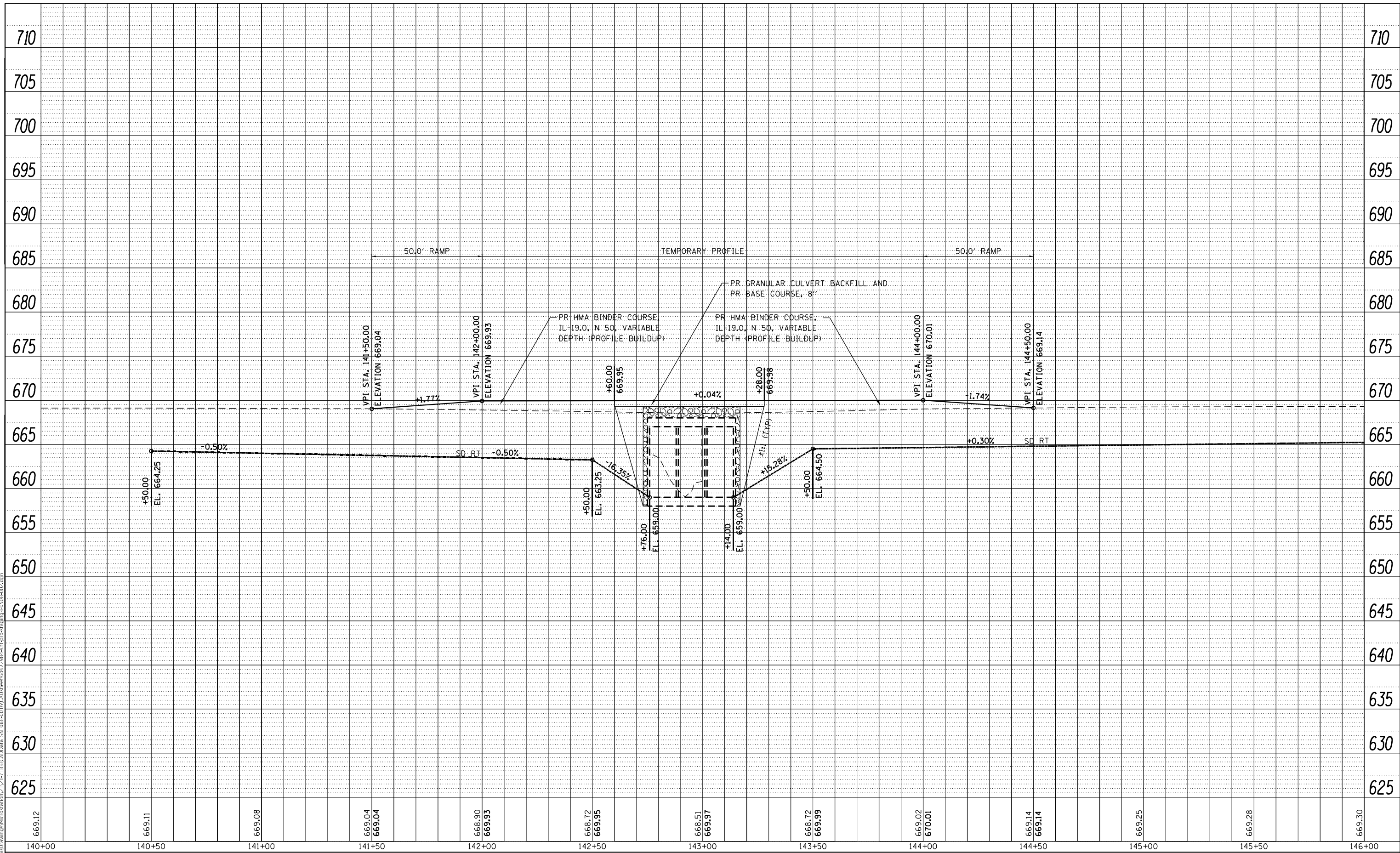
PROFILE STAGE I			
IL 16 SN 068-2508			
SCALE:	SHEET 1	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	103
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
* MONTGOMERY & CHRISTIAN				

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS C/W/D	
	NOTE BOOK NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS C/W/D	
	NOTE BOOK NO.	
	CADD FILE NAME	

MODEL: Default
 FILE NAME: W:\0685-001\0685-001\Drawings\Microstation\112117178B\CADData_S1_0685-001\0685-001\ProfileStageI_140505-002.dgn



USER NAME = mescaiel
 PLOT SCALE = 40,0000 * / in.
 PLOT DATE = 4/7/2023

DESIGNED -	REVISED -
DRAWN - CFC	REVISED -
CHECKED - MCB	REVISED -
DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROFILE STAGE I
 IL 16 SN 068-2508

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	104
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
MONTGOMERY & CHRISTIAN				

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNMENT CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS C/W/D		

MODEL: Default
 FILE NAME: W:\CCH\EL\Drawings\Microstation\1121-1718\CADData SN 068-0010\CAD\Drawings\1121-1718\1121-1718\Profile.dgn
 USER: mescaiel



FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = mescaiel
PLOT SCALE = 40,0000 * / in.
PLOT DATE = 4/7/2023

DESIGNED -	REVISED -
DRAWN - CFC	REVISED -
CHECKED - MCB	REVISED -
DATE -	REVISED -












**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

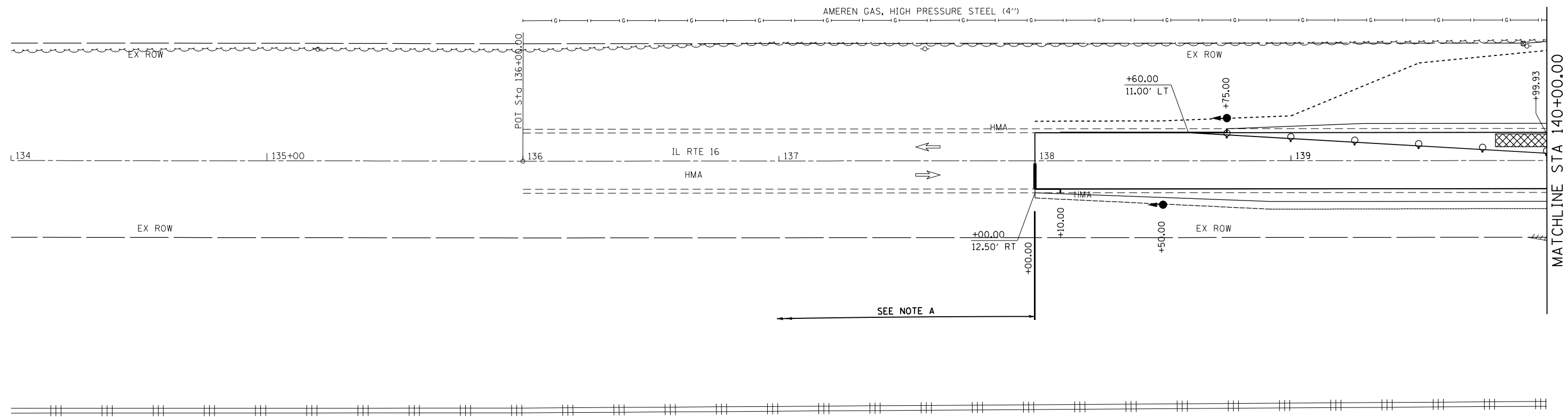
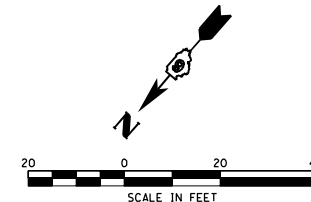
**PROFILE STAGE I
 IL 16 SN 068-2508**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	105
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (FULLY-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER



SEQUENCE OF CONSTRUCTION

STAGE II

1. RELOCATE TEMPORARY CONCRETE BARRIER AND OTHER TRAFFIC CONTROL ITEMS IN ACCORDANCE WITH STANDARD 701321 AND STAGE II TRAFFIC CONTROL DETAILS.
2. PLACE TRAFFIC IN STAGE II LANE.
3. REMOVE STAGE II PORTION OF THE EXISTING STRUCTURE, GUARDRAIL AND PAVEMENT.
4. CONSTRUCT STAGE II PORTION OF THE PROPOSED BOX CULVERT, PAVEMENT AND GUARDRAIL.

STAGE III

1. REMOVE TRAFFIC CONTROL ITEMS ASSOCIATED WITH STANDARD 701321. INSTALL SHORT TERM PAVEMENT MARKINGS AND PLACE TRAFFIC IN PERMANENT LANES.
2. PLACE HMA BINDER, SURFACE COURSE AND SHOULDERS IN ACCORDANCE WITH STANDARD 701306.
3. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH STANDARD 701311.

NOTE A

REMAINDER OF SIGNING ACCORDING TO STANDARD 701321
 TEMPORARY RUMBLE STRIPS WILL BE USED AND PLACED ACCORDING TO STANDARD 701321.
 ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

MODEL: D:\p\fehr\proj\117117188\CADD\Drawings\Microstation\117117188\CADD\Drawings\117117188\117117188.dgn
 FILE NAME: W:\CHEL\ED\Drawings\Microstation\117117188\CADD\Drawings\117117188\117117188.dgn



USER NAME = mesca1	DESIGNED -	REVISED -
PLOT SCALE = 40,000/000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 4/7/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -












**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

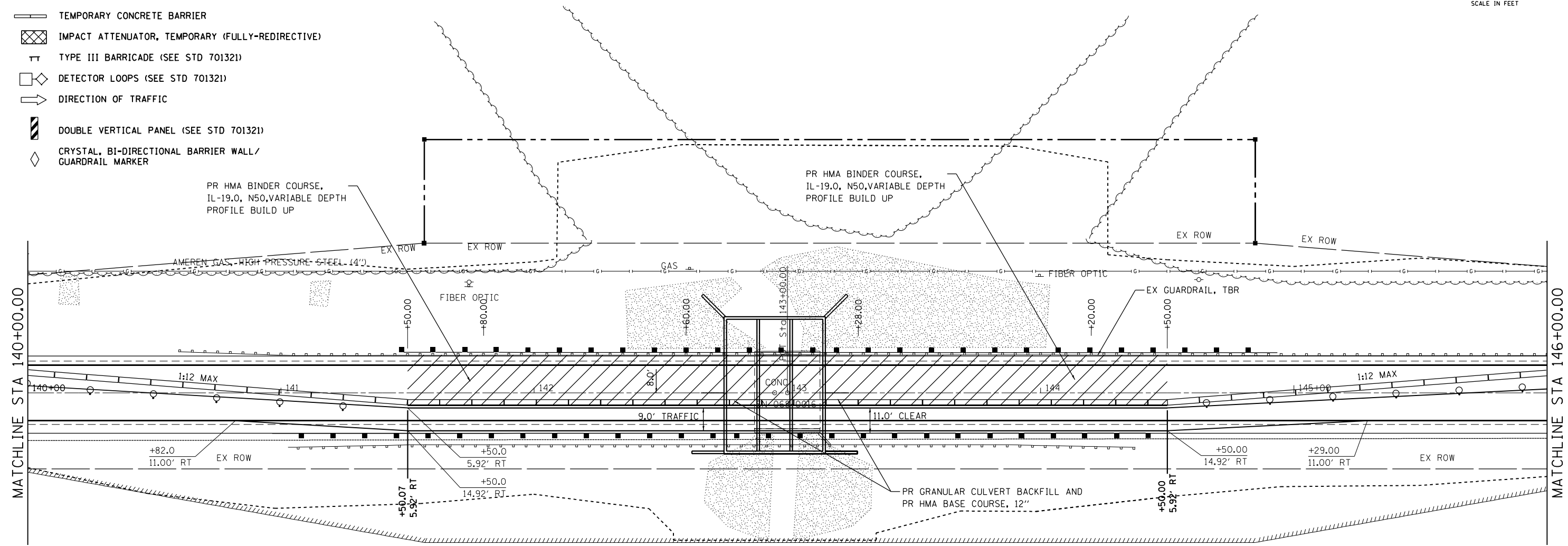
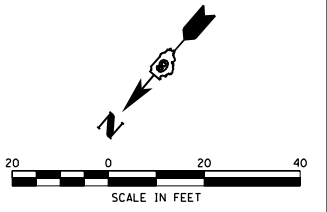
**STAGE II TRAFFIC CONTROL
 IL 16 SN 068-2508**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	106
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (FULLY-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL/ GUARDRAIL MARKER



MODEL Path: \\c:\projects\72984\Drawings\Traffic\Traffic\Traffic.dwg
 FILE NAME: \\c:\projects\72984\Drawings\Traffic\Traffic\Traffic.dwg
 MODEL Path: \\c:\projects\72984\Drawings\Traffic\Traffic\Traffic.dwg
 FILE NAME: \\c:\projects\72984\Drawings\Traffic\Traffic\Traffic.dwg














USER NAME = mescaat	DESIGNED -	REVISED -
PLOT SCALE = 40,000,000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 4/28/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

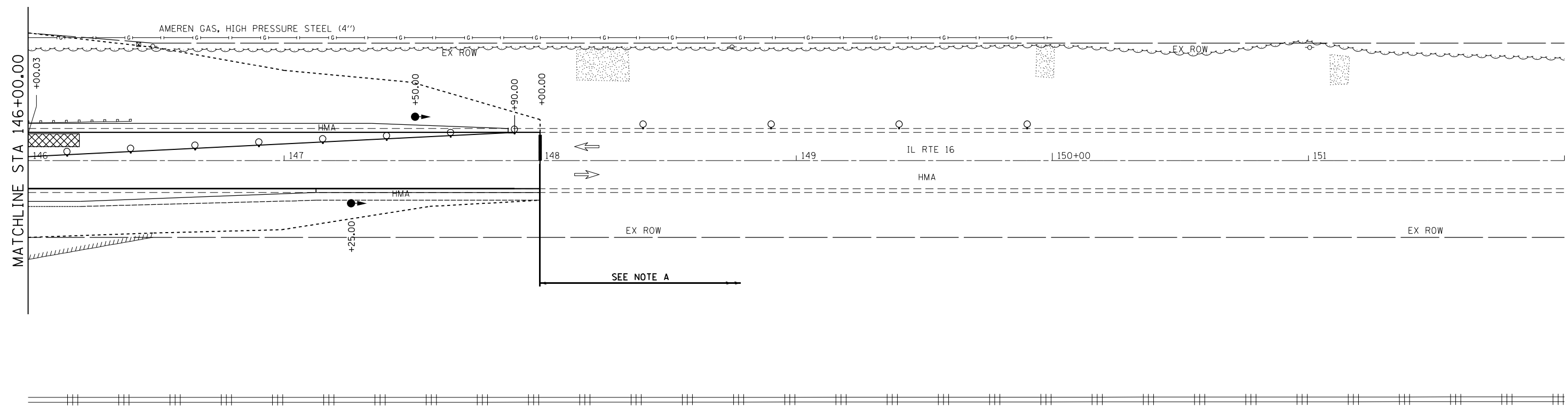
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE II TRAFFIC CONTROL			
IL 16 SN 068-2508			
SCALE:	SHEET 2	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)		142	107
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

LEGEND

-  WORK AREA
-  SIGN (SEE STD 701321)
-  DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
-  TRAFFIC SIGNAL
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY (FULLY-REDIRECTIVE)
-  TYPE III BARRICADE (SEE STD 701321)
-  DETECTOR LOOPS (SEE STD 701321)
-  DIRECTION OF TRAFFIC
-  DOUBLE VERTICAL PANEL (SEE STD 701321)
-  CRYSTAL, BI-DIRECTIONAL BARRIER WALL / GUARDRAIL MARKER



NOTE A

REMAINDER OF SIGNING ACCORDING TO STANDARD 701321
 TEMPORARY RUMBLE STRIPS WILL BE USED AND PLACED
 ACCORDING TO STANDARD 701321.
 ALL SIGNING AND PAVEMENT MARKING SHOWN OR ACCORDING
 TO STANDARD 701321 IS INCLUDED IN THE COST OF TRAFFIC
 CONTROL AND PROTECTION STANDARD 701321.

MODEL: D:\p\h...
 FILE NAME: W:\C\CHELE\ED\data\Drawings\Microstation\112\117188\CADD\data_S\068-00\16\CADD\sheet\0672984-01.ctb\plot\pl0305-003.dgn
 FEHR GRAHAM PROJECT NUMBER: 10005-2



USER NAME = mescate1	DESIGNED -	REVISED -
PLOT SCALE = 40,000000 ' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 4/27/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**STAGE II TRAFFIC CONTROL
 IL 16 SN 068-2508**

SCALE:	SHEET 3	OF 3	SHEETS	STA.	TO STA.
--------	---------	------	--------	------	---------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	108
				CONTRACT NO. 72984
		ILLINOIS	FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNMENT CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CIPWD		

MODEL: Default
 FILE NAME: W:\CCH\EL\Drawings\Microstation\1121-1718B\CADD\Basis SN 068-0010\CAD\Drawings\067288-11-11-profile-stage-ii-0508-001.dgn



FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525
 FEHR GRAHAM PROJECT NUMBER: 10005-2

USER NAME = mescaiel
PLOT SCALE = 40,0000 * / in.
PLOT DATE = 4/7/2023

DESIGNED -	REVISED -
DRAWN - CFC	REVISED -
CHECKED - MCB	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

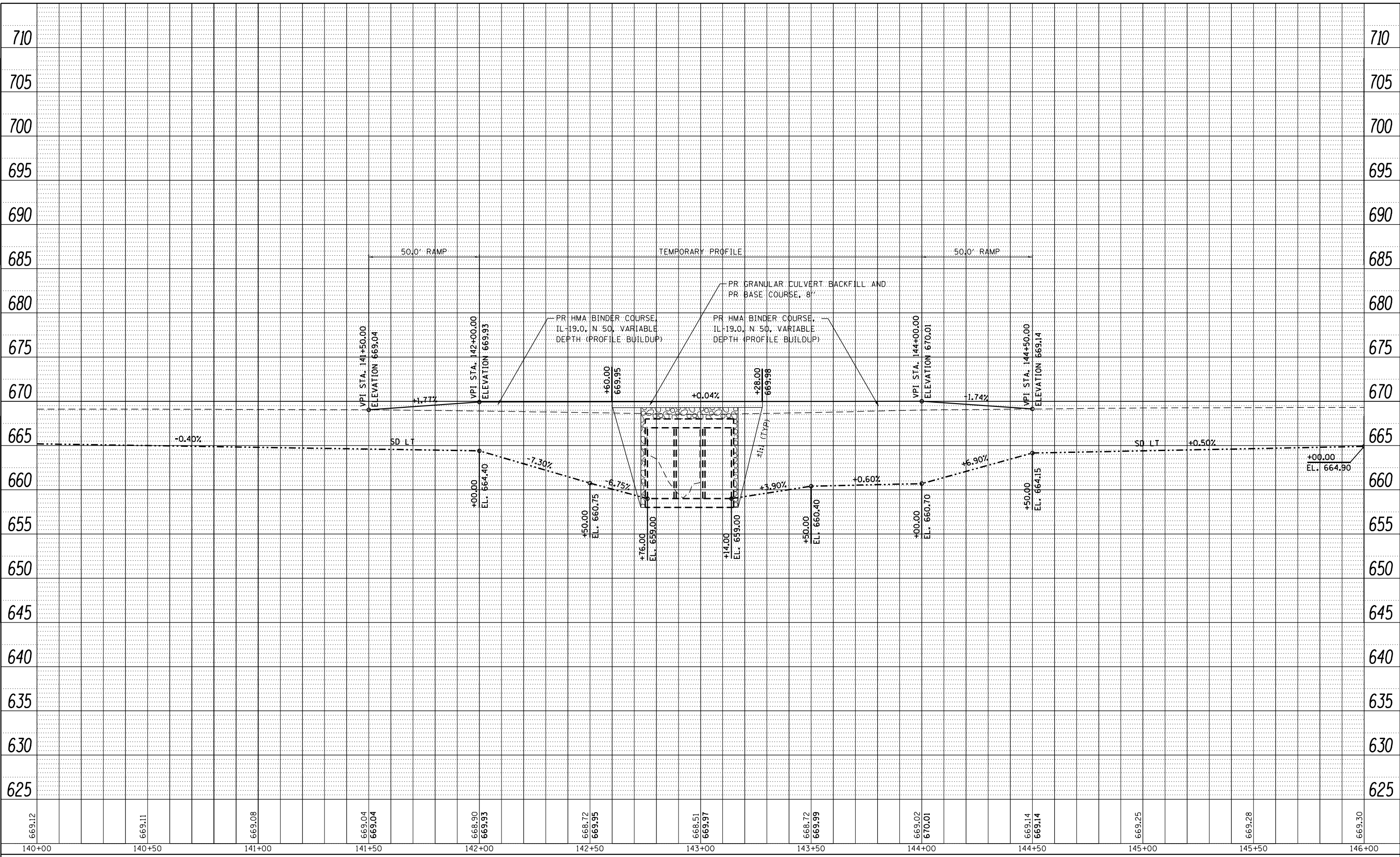
PROFILE STAGE II			
IL 16 SN 068-2508			
SCALE:	SHEET 1	OF 3 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	109
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	CADD FILE NAME	

MODEL: D:\default
 FILE NAME: W:\CCH\EL\Drawings\Microstation\112117178B\CADData SN 068-0010\CADData\112117178B-002.dgn
 112117178B-002.dgn



669.12	140+00	669.11	140+50	669.08	141+00	669.04	669.04	141+50	668.90	669.93	142+00	668.72	669.95	142+50	668.51	669.97	143+00	668.72	669.99	143+50	669.02	670.01	144+00	669.14	669.14	144+50	669.25	145+00	669.28	145+50	669.30	146+00
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525
 FEHR GRAHAM PROJECT NUMBER: 10005-2

USER NAME = mescaiel	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - CFC	REVISED -
PLOT DATE = 4/7/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROFILE STAGE II
 IL 16 SN 068-2508**

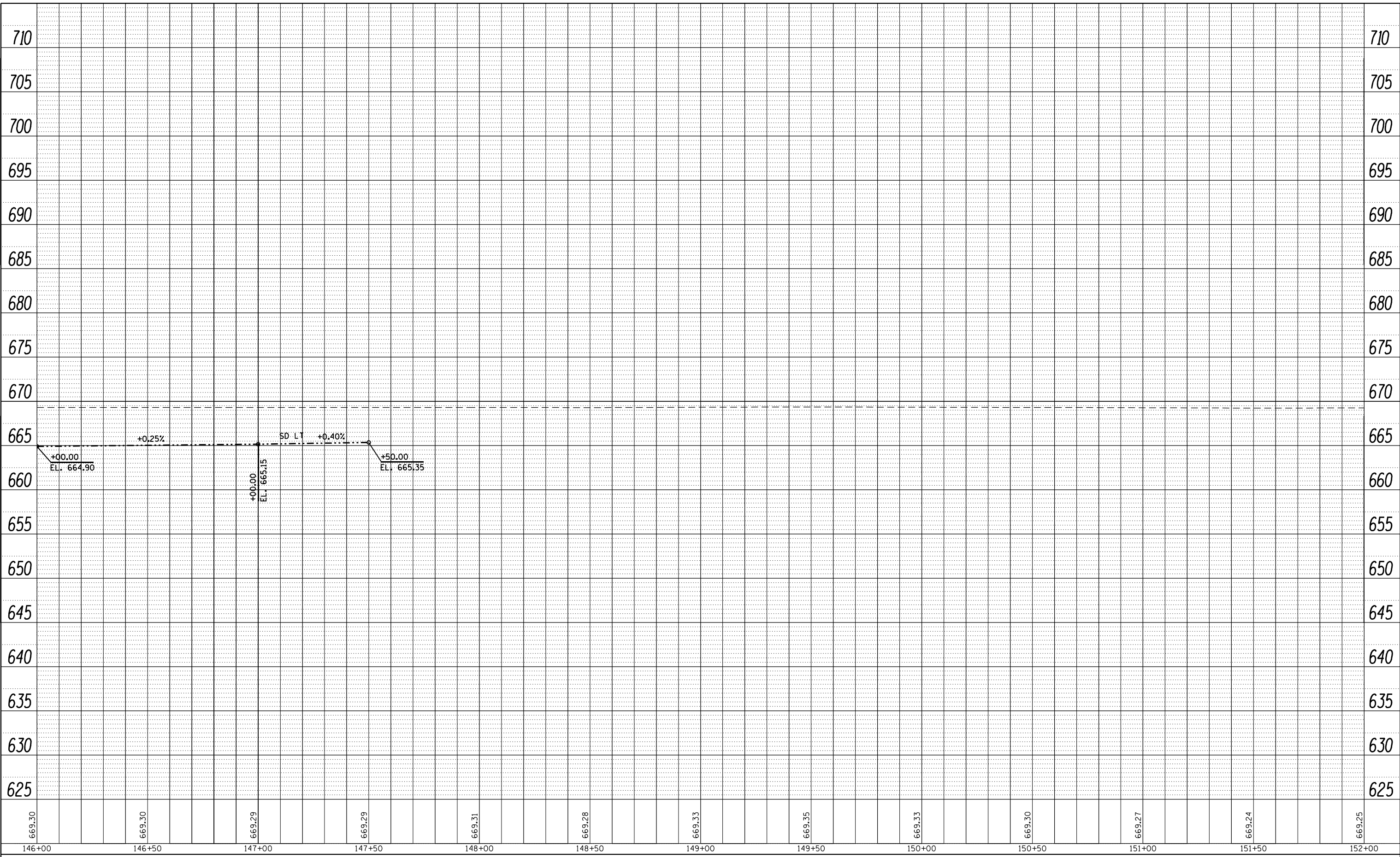
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	110
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	
* MONTGOMERY & CHRISTIAN				

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	GRADES CHECKED		
	ALIGNMENT CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

MODEL: Default
 FILE NAME: W:\040811\Drawings\040811\040811-1718B\CADDData SN 068-001\040811-1718B\CADDData SN 068-001\040811-1718B-003.dwg
 PROJECT: 040811-1718B-003.dwg
 USER: mescaiel



FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525
 FEHR GRAHAM PROJECT NUMBER: 10005-2

USER NAME = mescaiel
PLOT SCALE = 40,0000 * / in.
PLOT DATE = 4/7/2023

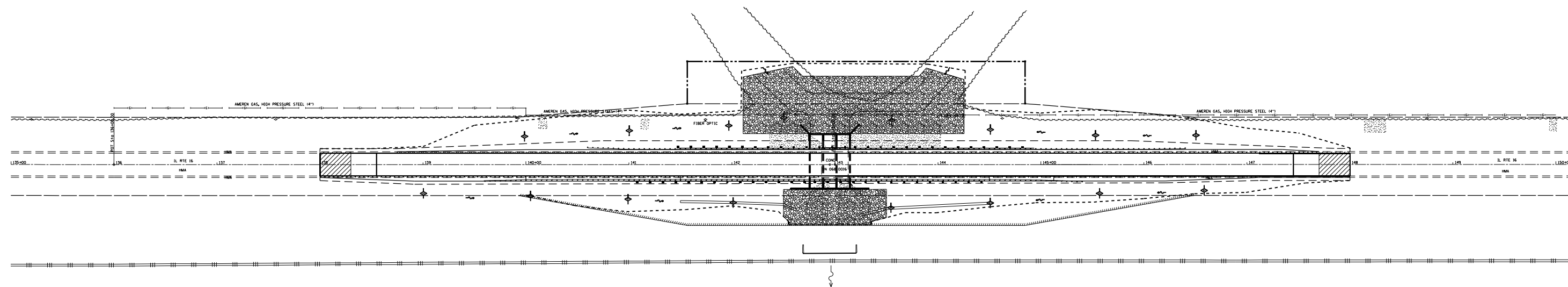
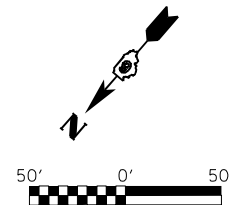
DESIGNED -	REVISED -
DRAWN - CFC	REVISED -
CHECKED - MCB	REVISED -
DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROFILE STAGE II
 IL 16 SN 068-2508**

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	111
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72984	
* MONTGOMERY & CHRISTIAN				



LEGEND

- TEMPORARY DITCH CHECK (AGGREGATE (EROSION CONTROL))
- PERIMETER EROSION BARRIER

MODEL: D:\efn\h...
 FILE NAME: \\BACHELLE\Drawings\Microstation\2112-17181\CADD\Drawings\0672984-ent-eros-0508.dgn

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = mescaie1	DESIGNED -	REVISED -
DRAWN - CFC	REVIS	REVISED -
PLOT SCALE = 100,000,000 " / in.	CHECKED - MCB	REVISED -
PLOT DATE = 4/27/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION CONTROL PLAN
 IL 16 SN 068-2508**

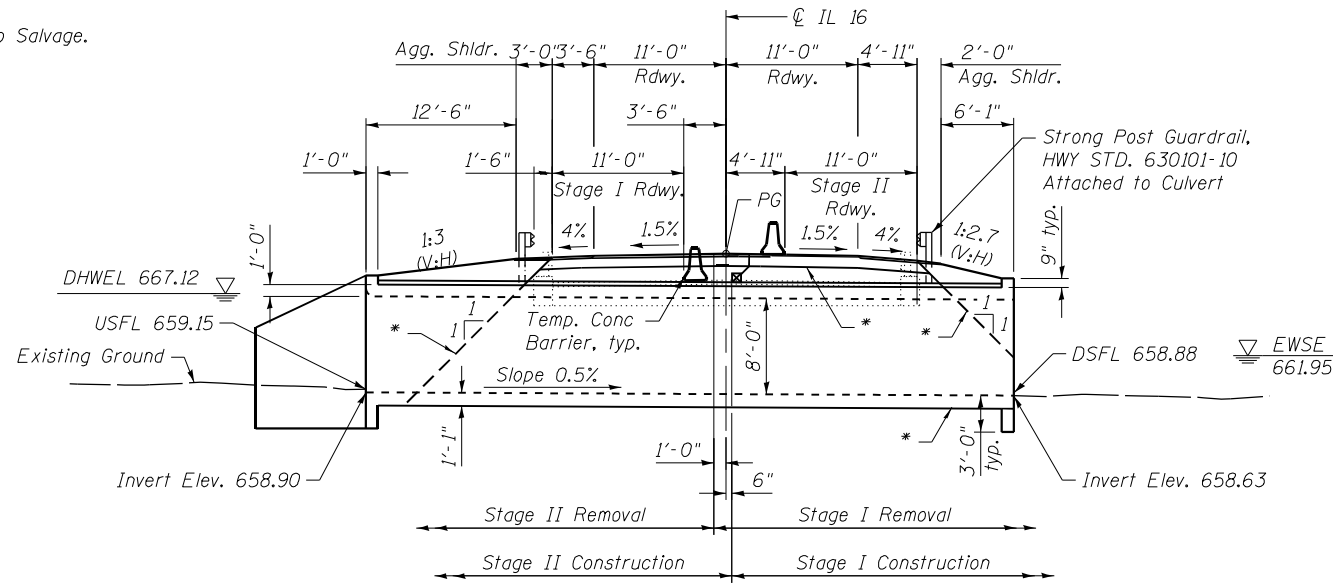
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	"	142	112
ILLINOIS FED. AID PROJECT				CONTRACT NO. 72984

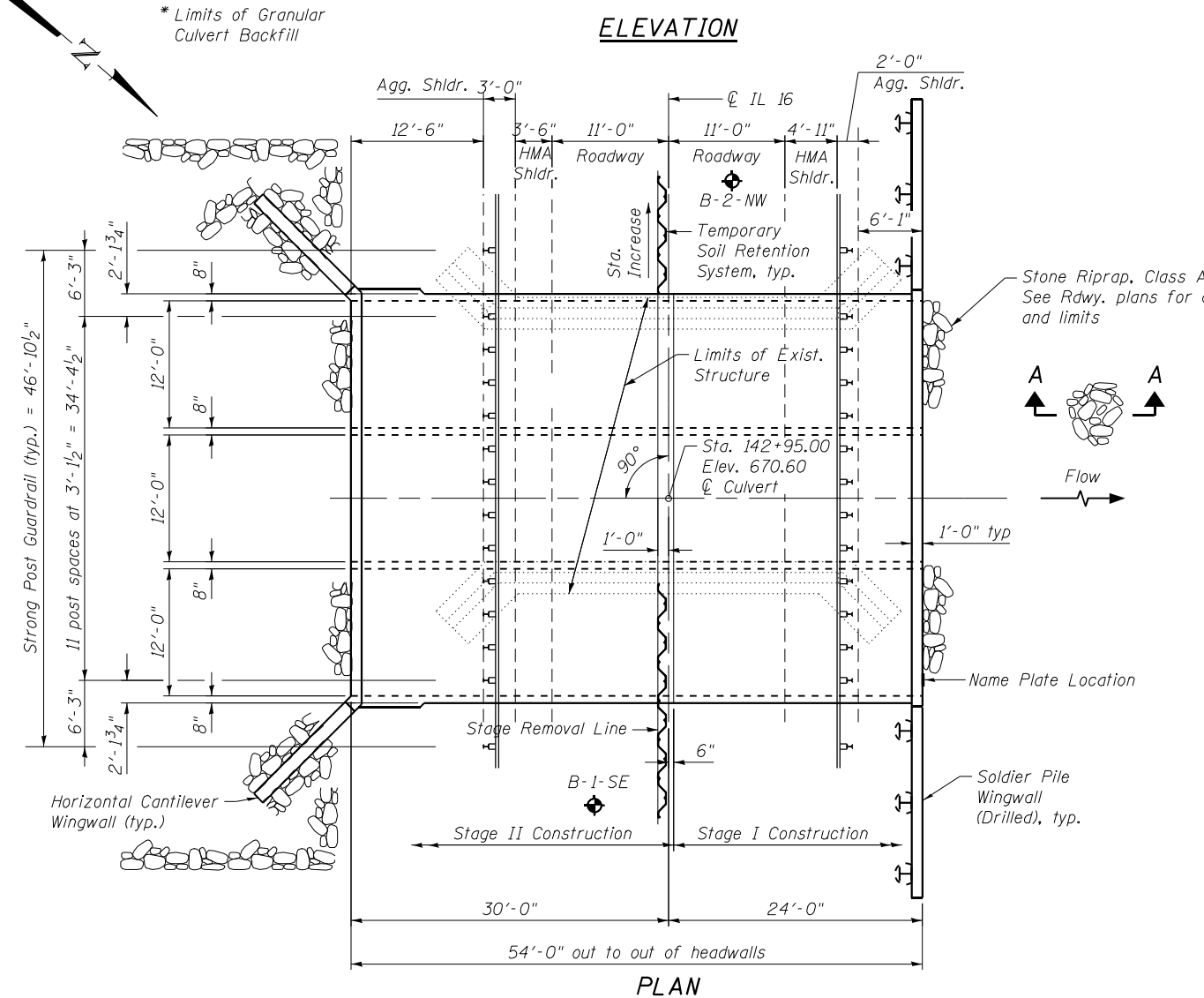
Benchmark: Chiseled square on top N.W. wingwall SN 068-0016, Elev. 668.47

Existing Structure: SN 068-0016 at Sta. 143+00 was built in 1923 as SBI 16, Section 18.
The HMA overlay was replaced in 1973 and in 2002 the bridge rail was replaced. The Structure is a single span concrete deck slab on closed abutments, 26'-0" bk. to bk. of abutments and 32'-2" out to out deck, no skew.
Stage construction will be utilized to maintain 1 lane of traffic.

No Salvage.



ELEVATION



PLAN

INDEX OF SHEETS

1. General Plan
2. Stage Construction Details
3. Temporary Concrete Barrier for Stage Construction
- 4.-5. Culvert Details
6. Bar Splicer Assembly and Mechanical Splicer Details
- 7.-8. North Wingwall Details
9. Pile Details
10. Boring Logs

GENERAL NOTES

Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
Excavation behind 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.
Precast option at this location is not allowed.
See Roadway Plans for Temporary Concrete Barrier quantity.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 50,000$ psi (Soldier Piles)

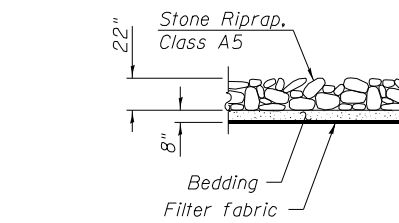
WATERWAY INFORMATION

Drainage Area = 1.9 sq. mi.		Exist. Overtopping Elev. 668.52 ft. @ Sta. 143+00.00		Prop. Overtopping Elev. 669.11 ft. @ Sta. 137+00.00		
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist. Prop.	Nat. H.W.E.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.
Design	10	640	124 240	665.88	1.2 0.6	667.11 666.48
Base	100	1280	144/20 290	667.12	1.9 0.7	668.97 667.80
OVT (E)	<50					
OVT (P)	>100					
Max. Calc.	500	1780	144/180 290	667.49	2.0 0.8	669.48 668.29

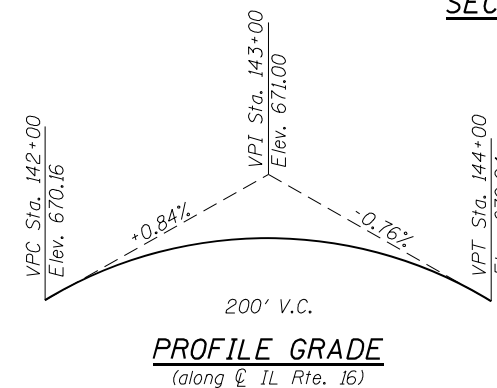
10 yr velocity thru Existing Structure = 6.47 fps
10 yr velocity thru Proposed Structure = 4.07 fps

DESIGN SCOUR ELEVATION TABLE

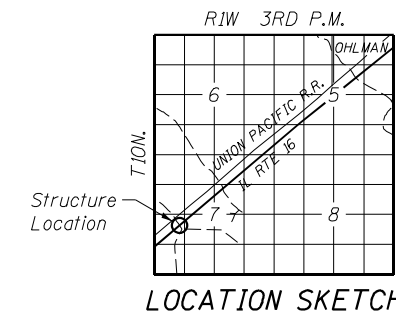
Design Scour Elevation (ft.)	Upstream	Downstream
	656.15	655.85



SECTION A-A



PROFILE GRADE (along IL Rte. 16)



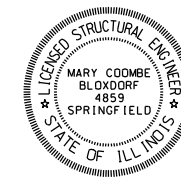
LOCATION SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 2	Each	1
Reinforcement Bars	Pound	40,060
Bar Splicers	Each	160
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	243.2
Granular Culvert Backfill	Cu. Yd.	143
Temporary Soil Retention System	Sq. Ft.	381
Membrane Waterproofing System for Buried Structures	Sq. Yd.	247
Geocomposite Wall Drain	Sq. Yd.	269
Strong Post Guardrail Attached to Culvert	Foot	94
Furnishing Soldier Piles (HP Section)	Foot	272
Drilling and Setting Soldier Piles (in soil)	Cu. Ft.	892
Untreated Timber Lagging	Sq. Ft.	461
Stud Shear Connectors	Each	78

STATION 142+95.00
BUILT 20__ BY
STATE OF ILLINOIS
F.A.P. RTE. 325 SEC. 18(B-2, B-3)
LOADING HL-93
STR. NO. 068-2508

NAME PLATE
See Std. 515001



Mary Coombe Bloxdorf

ILLINOIS STRUCTURAL NO. 4859
EXPIRES 11/30/24
DATE: 04/19/2023

GENERAL PLAN
IL 16 OVER TRIBUTARY TO THE
SOUTH FORK OF THE SANGAMON RIVER
FAP 325 SECTION 18(B-2, B-3)
MONTGOMERY COUNTY
STATION 142+95.00
STRUCTURE NO. 068-2508

MODEL: Default
FILE NAME: \\ROCHELLE\Drawings\Microstation\212\17188\CADDData\SN 068-0016\CADDsheets\0680508-72984-001-3spe.dgn



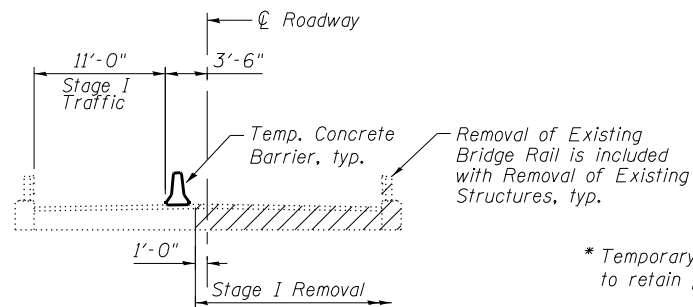
USER NAME = mgopalraj	DESIGNED - AMC	REVISED -
PLOT SCALE = 16:0.0000000 " / in.	CHECKED - MCB	REVISED -
PLOT DATE = 4/18/2023	DRAWN - NMY	REVISED -
	CHECKED - MCB/AMC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
SN 068-2508

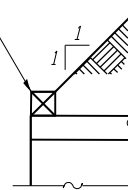
SHEET 1 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	113
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				



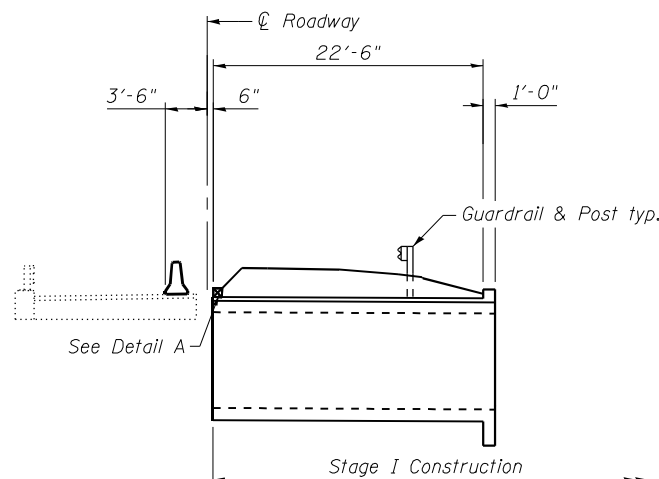
STAGE I REMOVAL

* Temporary blocking at Stage Line to retain proposed backfill

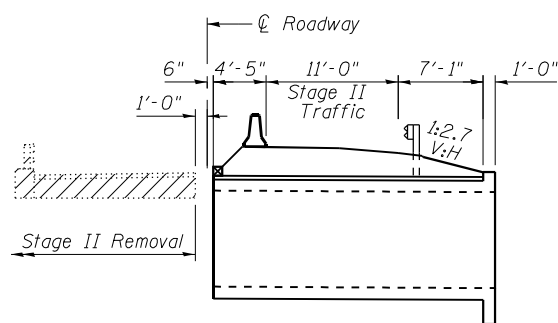


DETAIL A
(at Stage I Construction)

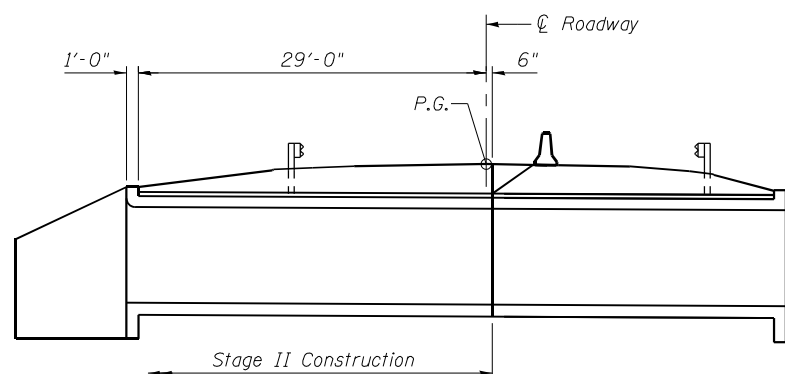
* The Contractor shall submit the design calculations and details for the temporary blocking for review and approval by the Engineer. Cost included in Temporary Soil Retention System.



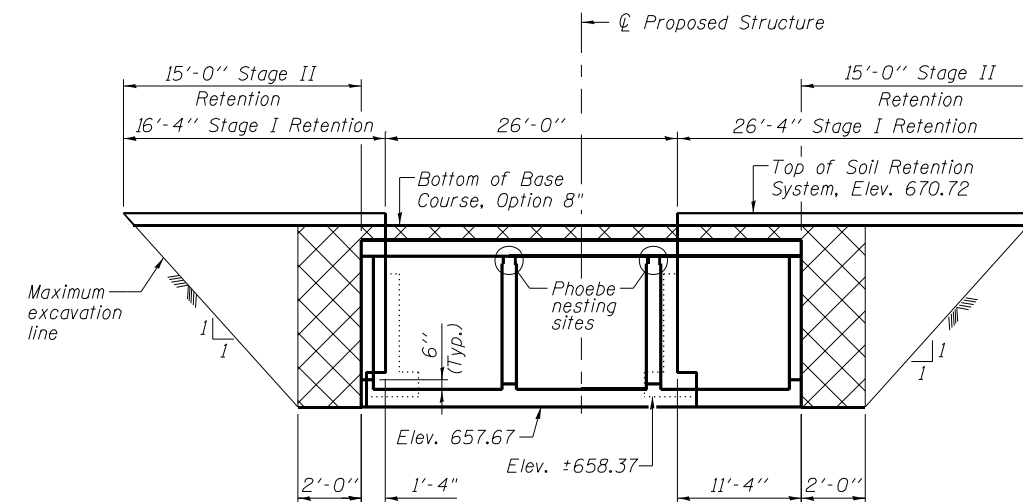
STAGE I CONSTRUCTION



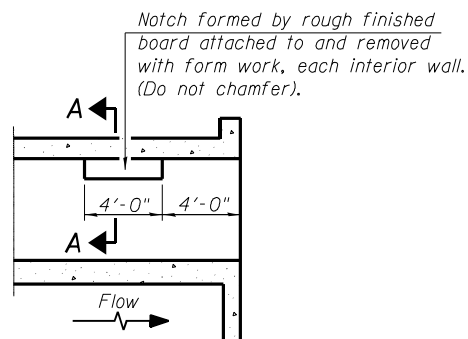
STAGE II REMOVAL



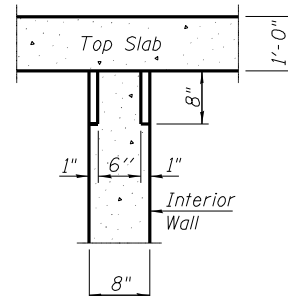
STAGE II CONSTRUCTION



TEMPORARY SOIL RETENTION SYSTEM



LONGITUDINAL SECTION



SECTION A-A

PHOEBE NESTING SITE DETAILS
(Downstream End Only)

Notes:
Cross hatched area indicates Granular Culvert Backfill. See Special Provisions.
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 system design including plan details and calculations for review and acceptance by the Engineer.
All staging cross sections are looking West.
For quantity of Temporary Concrete Barrier, see roadway plans.
Hatched area indicates Removal of Existing Structures.

MODEL: Default
FILE NAME: \R\ROCHELLE\Drawings\Microstation\12.112.1-17188\CADDData_SN_068-0016\CAD\Sheets\0680508-72984-002-staging.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. IB4-003525

USER NAME = mgopalraj	DESIGNED - AMC	REVISED -
PLOT SCALE = 16:0.0000 " = 1/4" in.	CHECKED - MCB	REVISED -
PLOT DATE = 4/18/2023	DRAWN - MMY	REVISED -
	CHECKED - MCB/AMC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

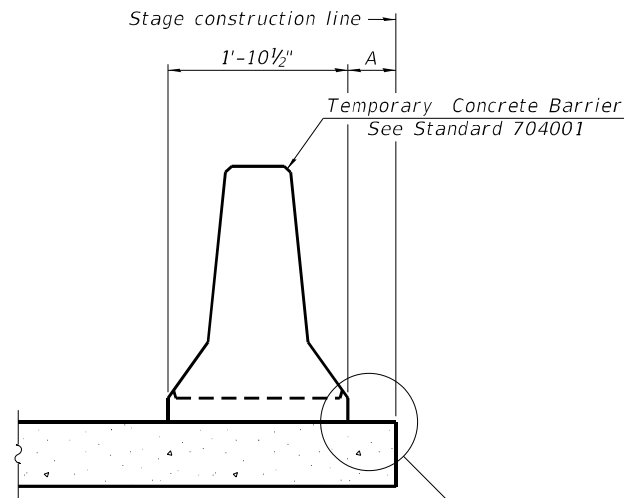
STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 068-2508

SHEET 2 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	114
CONTRACT NO. 72984				

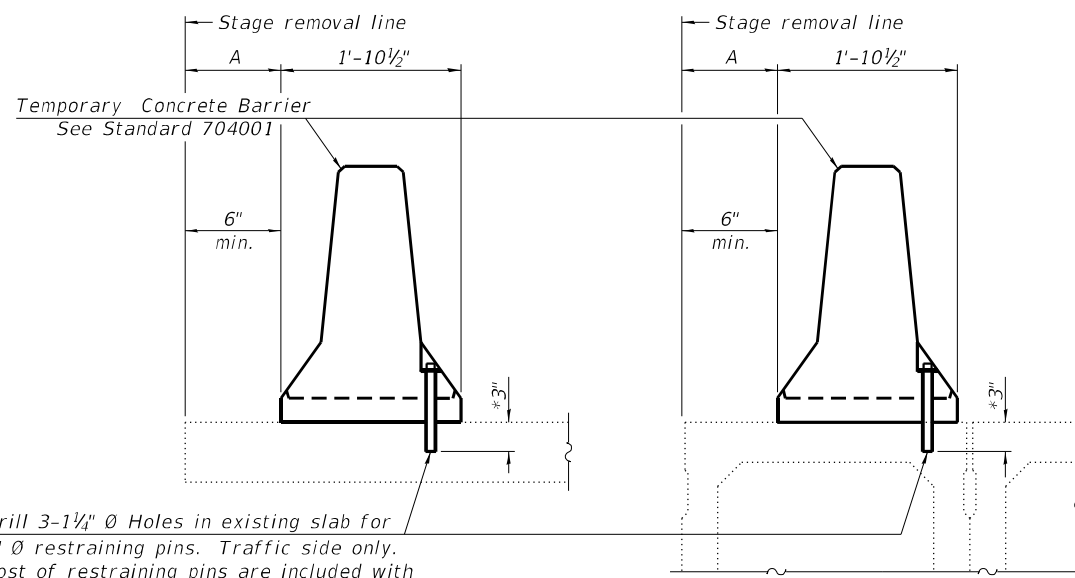
ILLINOIS FED. AID PROJECT

FEHR GRAHAM PROJECT NUMBER: 10005-2



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



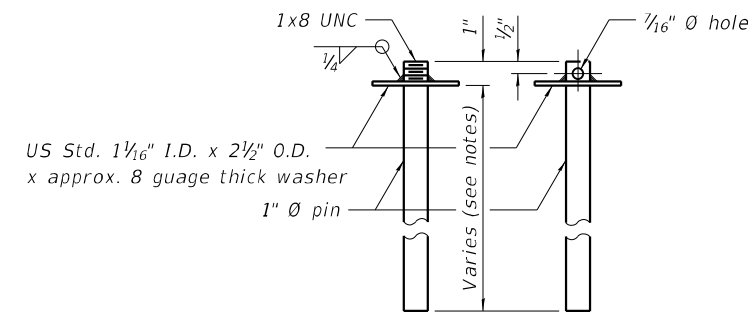
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

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

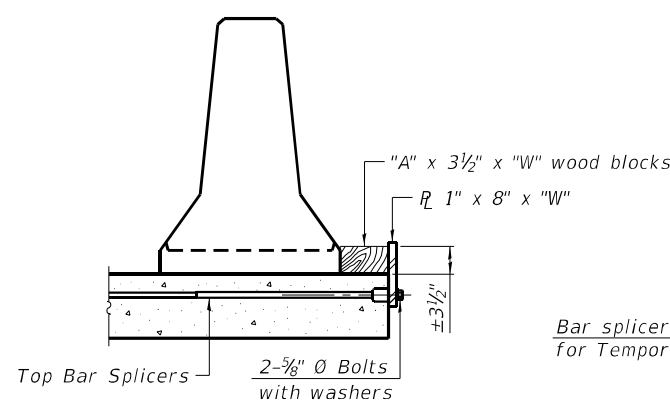
EXISTING DECK BEAM

SECTIONS THRU SLAB OR DECK BEAM



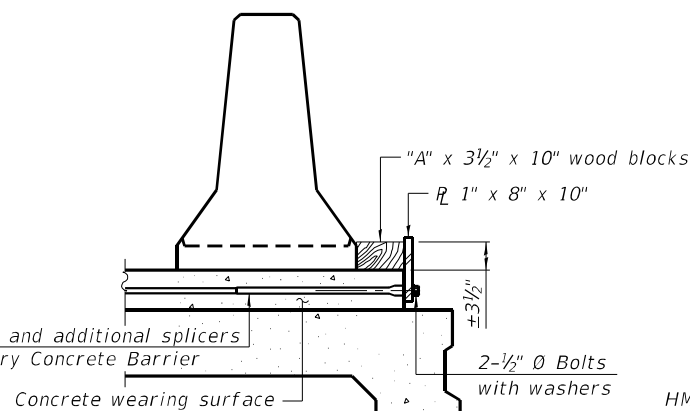
US Std. 1 1/16" I.D. x 2 1/2" O.D. x approx. 8 gauge thick washer

RESTRAINING PIN

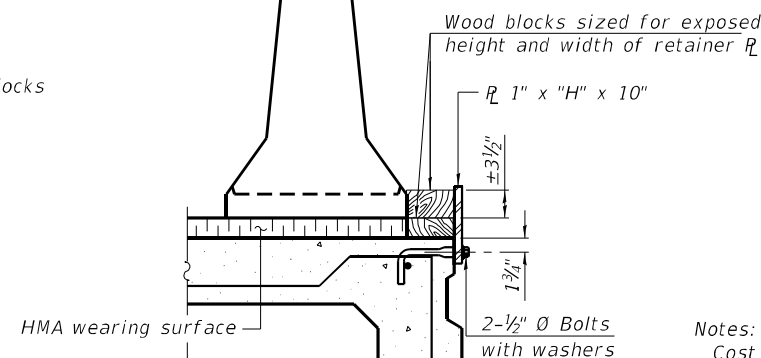


DETAIL I

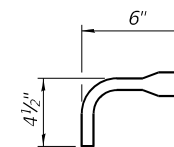
Bar splicers and additional splicers for Temporary Concrete Barrier



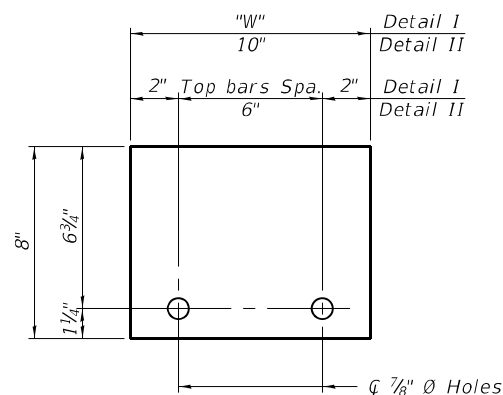
DETAIL II



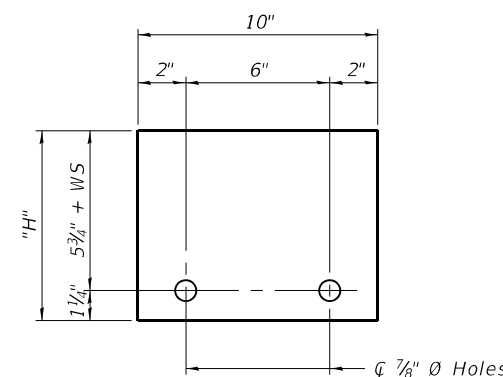
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



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

Notes:

Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate center 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.

MODEL: Default
FILE NAME: \\ROCHELLE\Drawings\Microstation\2112.1-17188\CADDData\SN_068-0016\CADDData\0680508-72984-003-TCB.dgn

R-27

2-17-2017

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. IB4-003525

USER NAME =	mgopalraj	DESIGNED -	AMC	REVISED -	
		CHECKED -	MCB	REVISED -	
PLOT SCALE =	0:2.0000 " = / in.	DRAWN -	MMY	REVISED -	
PLOT DATE =	4/18/2023	CHECKED -	MCB/AMC	REVISED -	

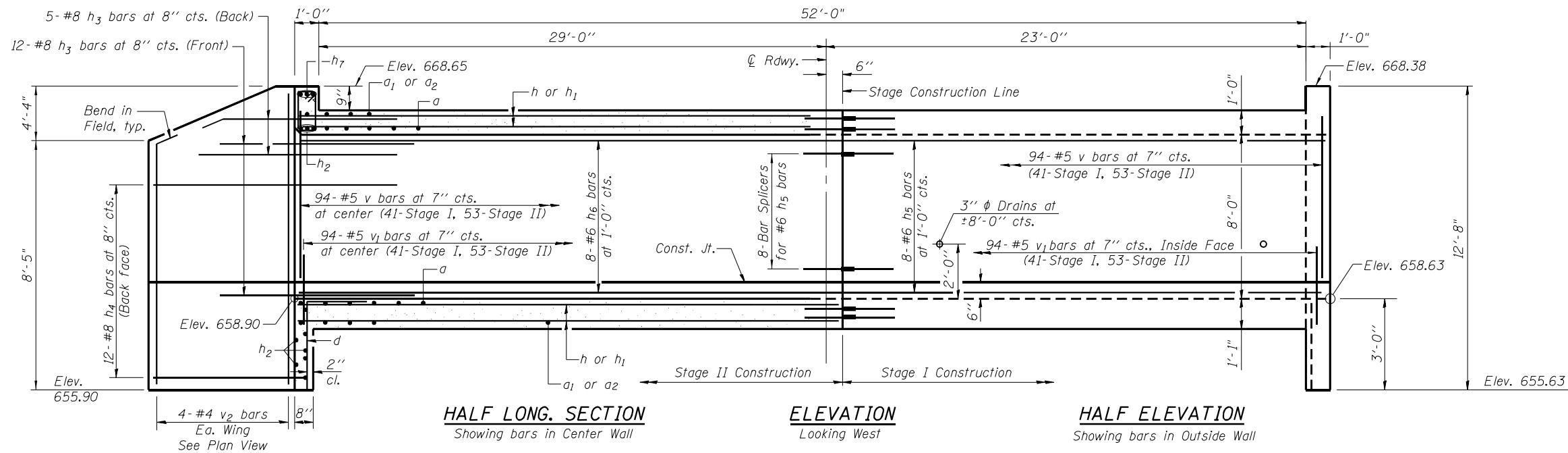
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 068-2508

SHEET 3 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	115
			CONTRACT NO. 72984	
ILLINOIS FED. AID PROJECT				

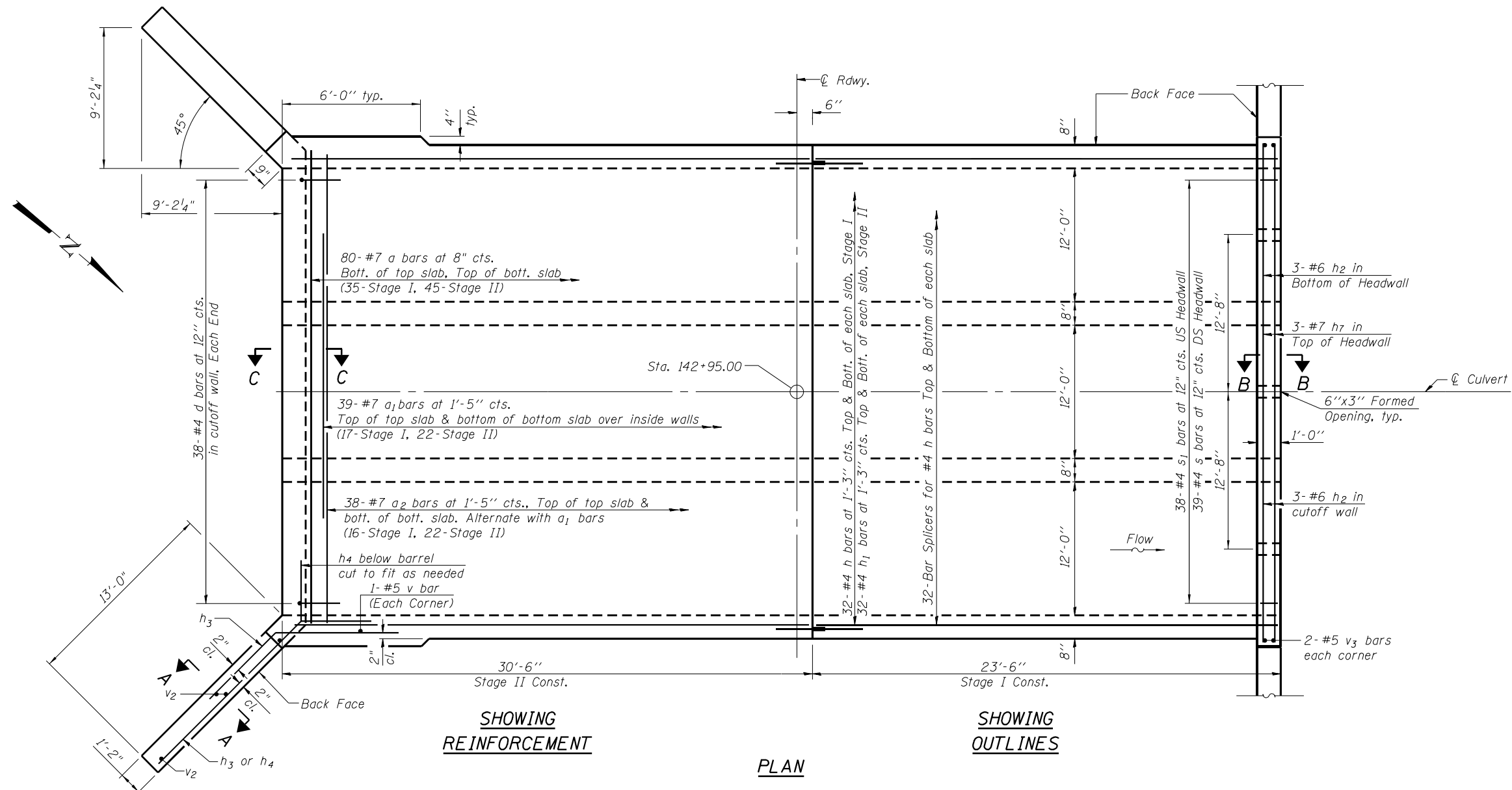
FEHR GRAHAM PROJECT NUMBER: 10005-2



HALF LONG SECTION
Showing bars in Center Wall

ELEVATION
Looking West

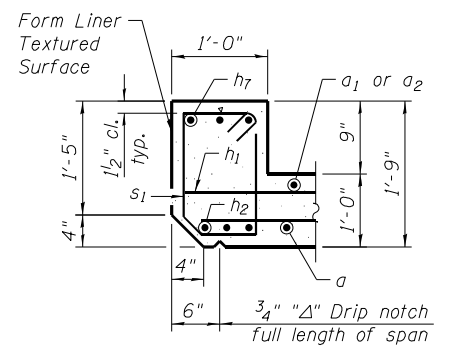
HALF ELEVATION
Showing bars in Outside Wall



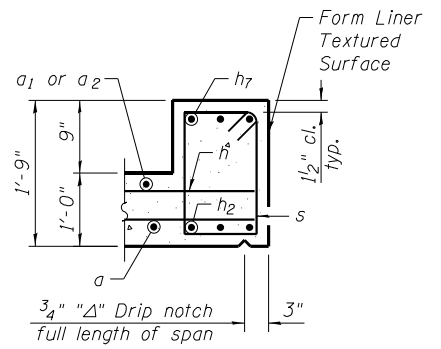
SHOWING REINFORCEMENT

PLAN

SHOWING OUTLINES



SECTION B-B
Upstream End



SECTION C-C
Downstream End

Note:
See sheet 5 of 9 for Sec. A-A, bar details and Bill of Material.

MODEL: Default
FILE NAME: \\ROCHELLE\Drawings\Microstation\212\1-7188\CADData\SN_068-0016\CADsheets\0680508-72984-004-culv-del.dgn



USER NAME = mgopalraj	DESIGNED - AMC	REVISED -
PLOT SCALE = 0:2.0000 " = 1" / in.	CHECKED - MCB	REVISED -
PLOT DATE = 4/27/2023	DRAWN - NMY	REVISED -
	CHECKED - MCB/AMC	REVISED -

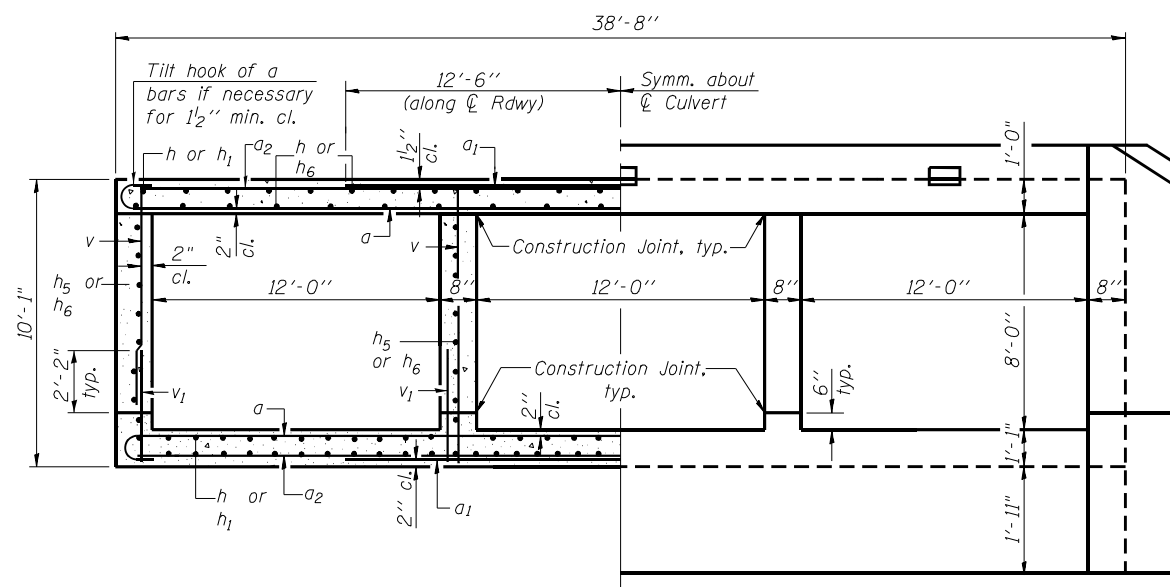
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STRUCTURE NO. 068-2508

SHEET 4 OF 10 SHEETS

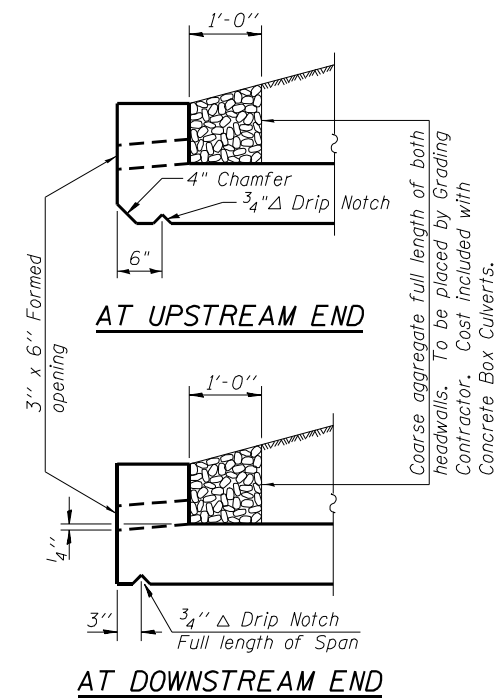
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	116
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

FEHR GRAHAM PROJECT NUMBER: 10005-2



HALF SECTION THRU BARREL

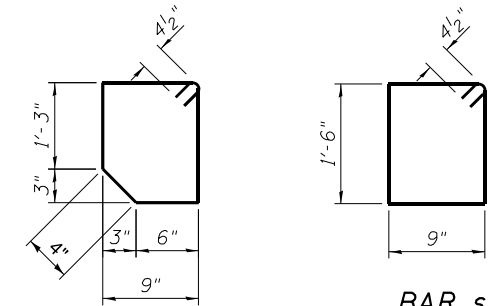
HALF END ELEVATION



AT UPSTREAM END

AT DOWNSTREAM END

DRAIN DETAIL



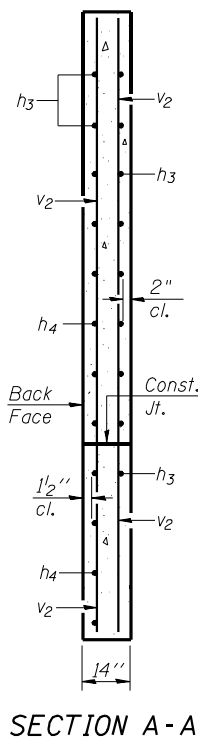
BAR s1

BAR s

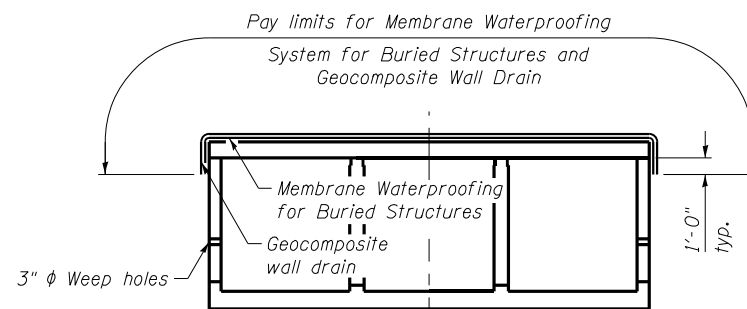
Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

BILL OF MATERIAL

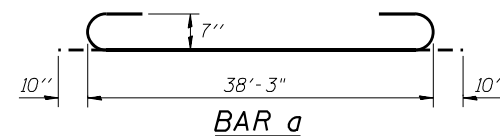
Bar	No.	Size	Length	Shape
a	160	#7	39'-11"	U
a1	78	#7	25'-0"	—
a2	76	#7	38'-3"	—
d	76	#4	4'-5"	L
h	128	#4	22'-10"	—
h1	128	#4	29'-10"	—
h2	12	#6	38'-3"	—
h3	34	#8	8'-0"	L
h4	24	#8	16'-0"	L
h5	32	#6	23'-2"	—
h6	32	#6	30'-2"	—
h7	6	#7	38'-3"	—
h8	52	#5	17'-8"	—
s	39	#4	5'-3"	U
s1	38	#4	5'-4"	U
v	380	#5	8'-2"	—
v1	376	#5	3'-4"	—
v2	8	#4	12'-5"	—
v3	80	#5	12'-5"	—
Concrete Box Culverts			Cu. Yd.	243.2
Reinforcement Bars			Pound	40,060
Membrane Waterproofing System for Buried Structures			Sq. Yd.	247
Furnishing Soldier Piles (HP Section)			Foot	272
Drilling and Setting Soldier Piles (In soil)			Cu. Ft.	892
Untreated Timber Lagging			Sq. Ft.	461
Geocomposite Wall Drain			Sq. Yd.	269
Stud Shear Connectors			Each	78
Bar Splicers			Each	160



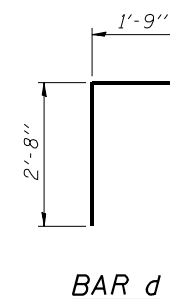
SECTION A-A



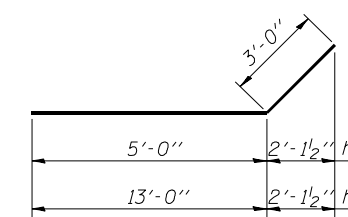
MEMBRANE WATERPROOFING



BAR a



BAR d

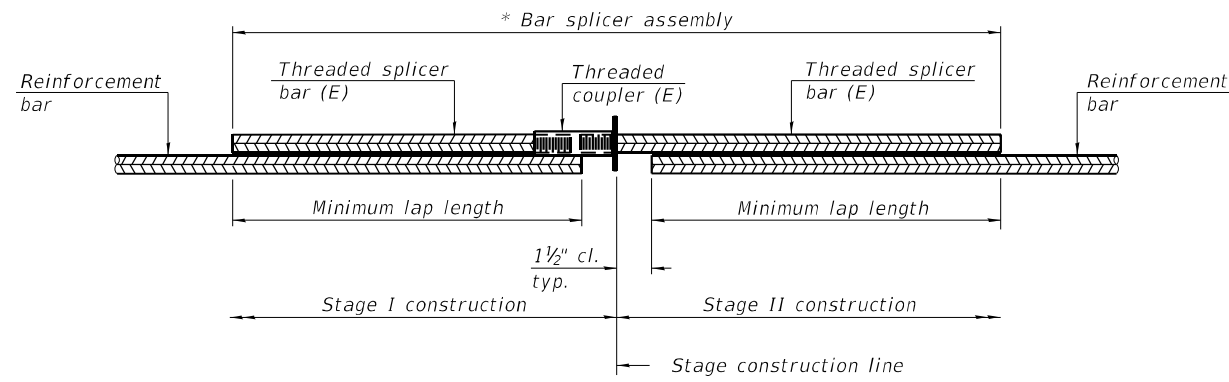


BARs h3 & h4

MODEL: Default
FILE NAME: \\ROCHELLE\Drawings\Microstation\212.1-17188\CADDData_SN_068-00.16\CADDsheets\0680508-72984-005-culv-det.dgn

USER NAME = mgopalraj	DESIGNED - AMC	REVISED -
PLOT SCALE = 0:2.0000 " = 1/8" / in.	CHECKED - MCB	REVISED -
PLOT DATE = 4/18/2023	DRAWN - MMY	REVISED -
	CHECKED - MCB/AMC	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	117
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				



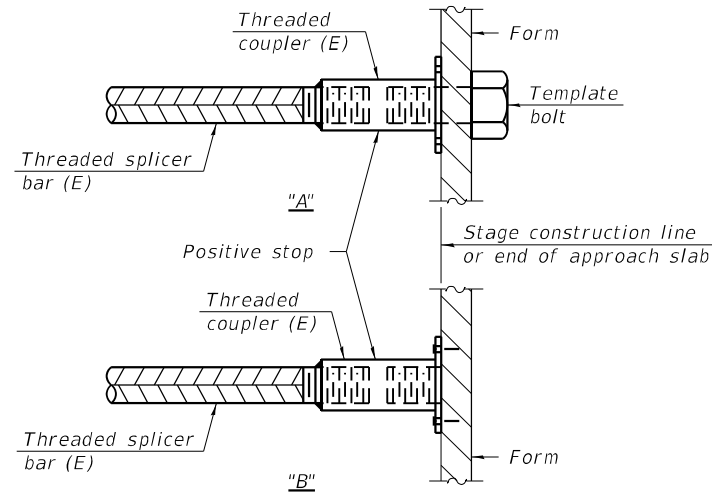
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

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
Top Slab	#4	64	1'-9"
Bottom Slab	#4	64	1'-9"
Walls	#6	32	3'-4"

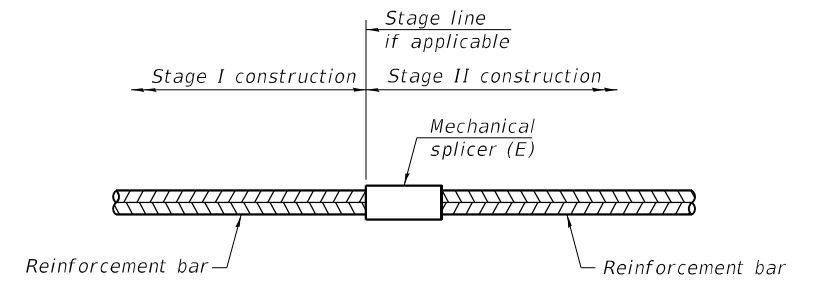


INSTALLATION AND SETTING METHODS

"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

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.

MODEL: Default
FILE NAME: \\AROCHELLE\Drawings\Microstation\212.1-17188\CADData\SN_068-0016\CADData\SN_068-0016-72984-006-85D.dgn

BSD-1

2-1-2023



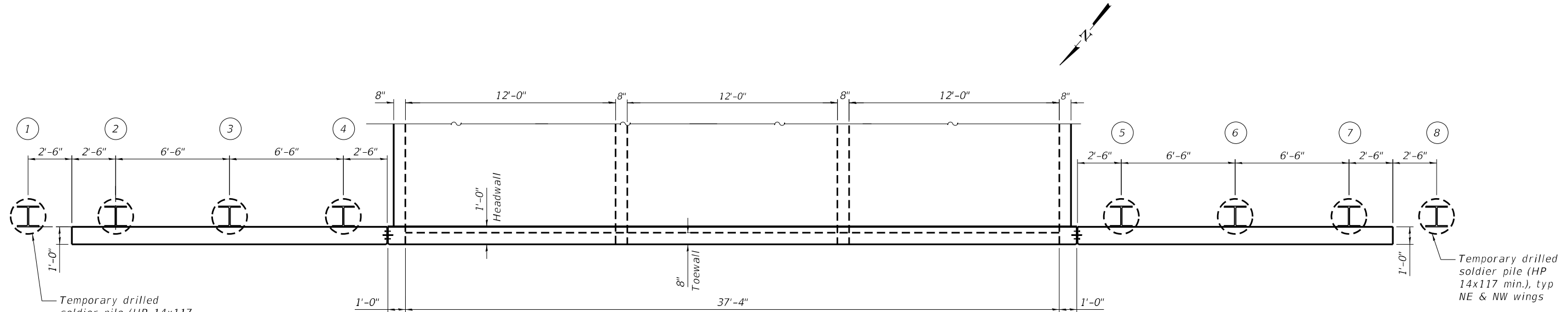
USER NAME =	mgopalraj	DESIGNED -	AMC	REVISED -	
		CHECKED -	MCB	REVISED -	
PLOT SCALE =	0:2.0000 " = 1" / in.	DRAWN -	MMY	REVISED -	
PLOT DATE =	4/18/2023	CHECKED -	MCB/AMC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

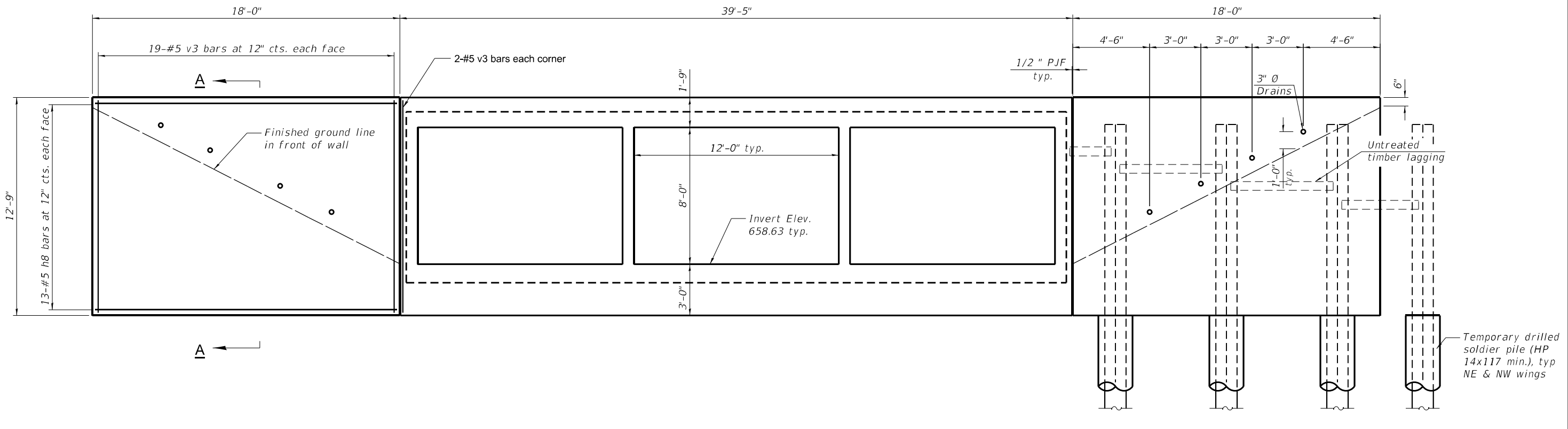
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 068-2508

SHEET 6 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	118
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	



PLAN



SHOWING WINGWALL REINF.

ELEVATION

SHOWING PILES

MODEL: Default
 FILE NAME: \\ROCHELLE\Drawings\Microstation\212.1-17188\CADData\068-0016\CAD\Drawings\0680508-72984-007-Wingwall_Details_1.dgn
 FEHR GRAHAM PROJECT NUMBER: 10005-2

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525

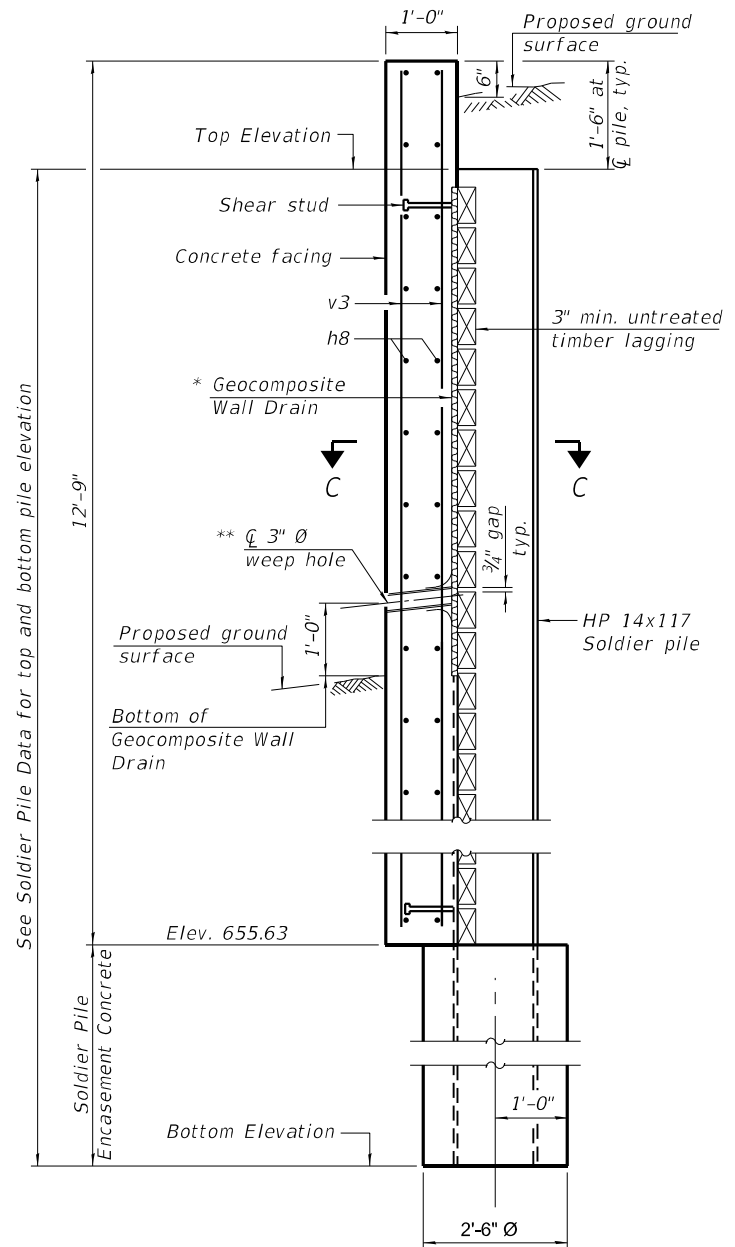
USER NAME = mgopalraj	DESIGNED - AMC	REVISED -
PLOT SCALE = 6:0.0000 " = 1" / in.	CHECKED - MCB	REVISED -
PLOT DATE = 4/18/2023	DRAWN - MMY	REVISED -
	CHECKED - MCB/AMC	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

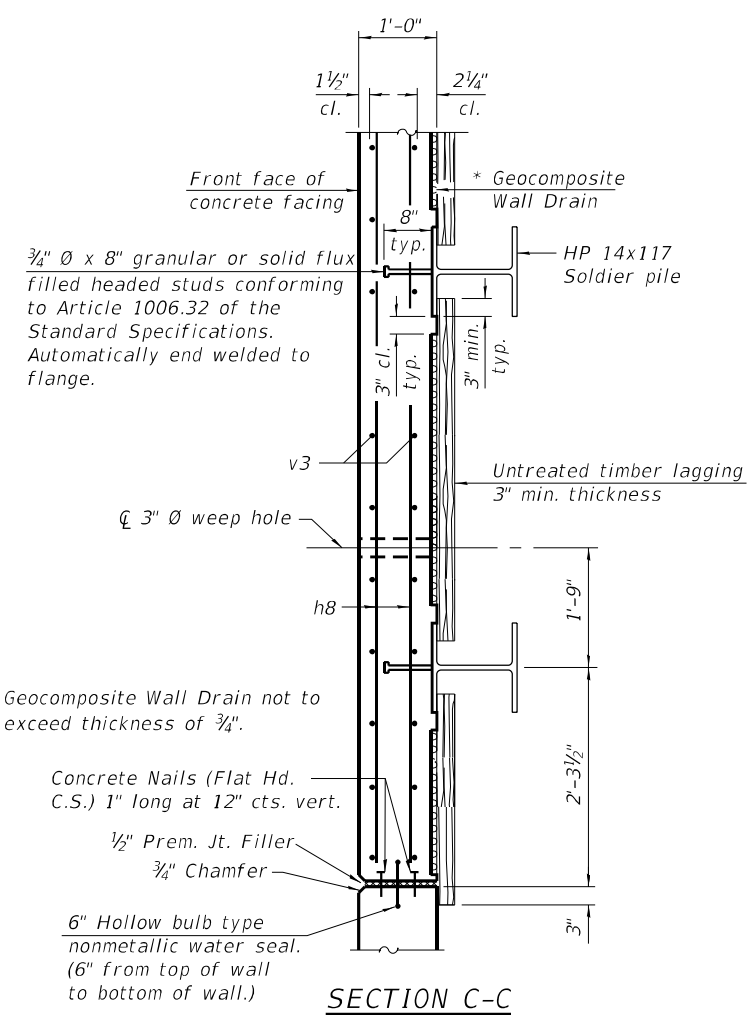
NORTH WINGWALL DETAILS
 STRUCTURE NO. 068-2508

SHEET 7 OF 10 SHEETS

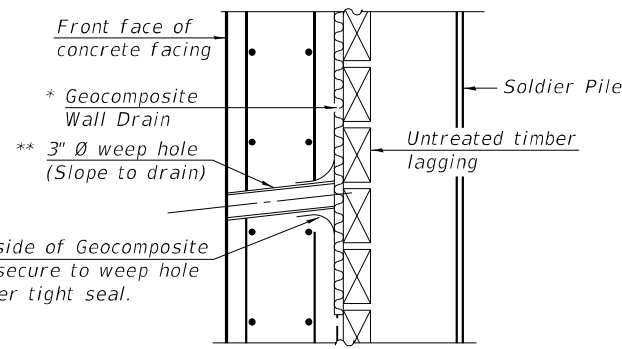
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	119
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				



SECTION A-A

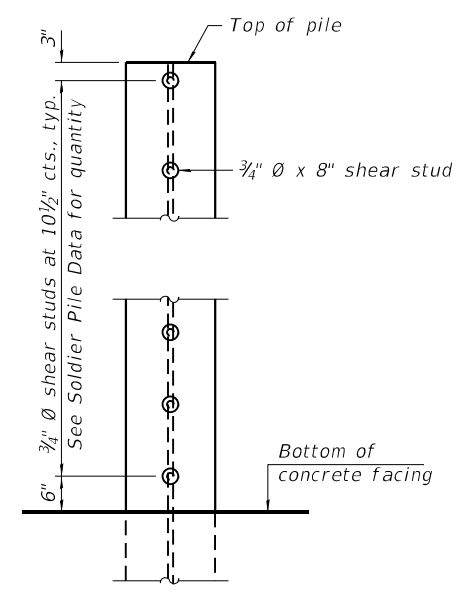


SECTION C-C



WEEP HOLE DRAIN DETAIL

** Cost of the weep hole drain and connection to the Geocomposite Wall Drain are included in the cost of Concrete Box Culverts.



SHEAR STUD DETAIL

(Elevation of pile shown)

SOLDIER PILE WINGWALL CONSTRUCTION SEQUENCE

1. Construct concrete box culvert.
2. Drill soldier piles (may be completed prior to completing construction of box culvert).
3. Install timber lagging.
4. Place and compact backfill behind wingwall to top of timber lagging.
5. Install shear stud connectors.
6. Place reinforcement and form concrete wall face.
7. Cast concrete wingwall facing.
8. Remove temporary soldier pile and timber lagging outside limits of the wingwall.
9. Place remainder of backfill to proposed ground surface elevations on both sides of wall (backfill front side of wall as much as possible before backfilling is completed).

Notes:

The temporary soldier pile is required to facilitate backfilling of the wingwall prior to casting the concrete face. The temporary soldier pile shall conform to the construction requirements for permanent soldier piles except material for the temporary soldier pile may be new or used. After the concrete face has been allowed to cure, the temporary soldier pile shall be removed 2 ft below streambed along with the adjacent timber lagging. Cost of removing and disposing temporary soldier pile and timber lagging shall be included in the cost of Concrete Box Culverts.
 In order to minimize excessive deflection and/or stresses in the soldier piles, compaction equipment used within 4 ft of the back face of the timber lagging shall be limited to lightweight mechanical tampers, rollers, or vibratory systems.
 The Contractor is responsible for the design and performance of the timber lagging using no less than a 3 inch nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi.

SOLDIER PILE DATA

Soldier Pile	Pile Size	Top Elevation	Bottom Elevation	Total Height (Ft.)	Number of Shear Studs
1	HP 14x117 min.	666.88	632.88	34'-0"	
2	HP 14x117	666.88	632.88	34'-0"	13
3	HP 14x117	666.88	632.88	34'-0"	13
4	HP 14x117	666.88	632.88	34'-0"	13
5	HP 14x117	666.88	632.88	34'-0"	13
6	HP 14x117	666.88	632.88	34'-0"	13
7	HP 14x117	666.88	632.88	34'-0"	13
8	HP 14x117 min.	666.88	632.88	34'-0"	

MODEL: Default; FILE NAME: \ROCHELLE\Drawings\Microstation\212\1-17188\CADData\068-0016\CADsheets\0680508-72984-008-Wingwall Details 2.dgn

SP-ZS-DETAILS

2-17-2017



USER NAME = mgopalraj	DESIGNED - AMC	REVISED -
PLOT SCALE = 0:2.0000 " = 1" / in.	CHECKED - MCB	REVISED -
PLOT DATE = 4/18/2023	DRAWN - MMY	REVISED -
	CHECKED - MCB/AMC	REVISED -

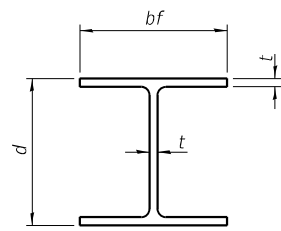
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH WINGWALL DETAILS
STRUCTURE NO. 068-2508

SHEET 8 OF 10 SHEETS

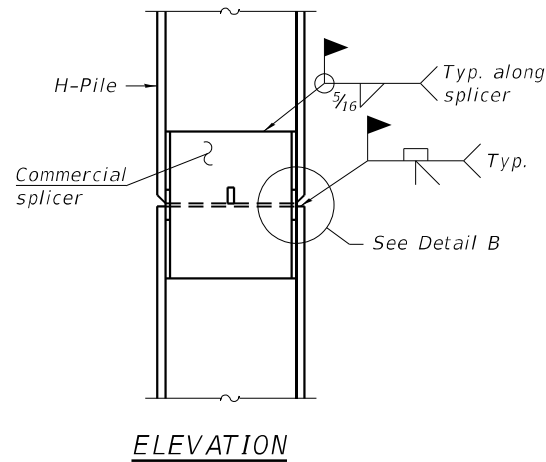
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	120
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

FEHR GRAHAM PROJECT NUMBER: 10005-2

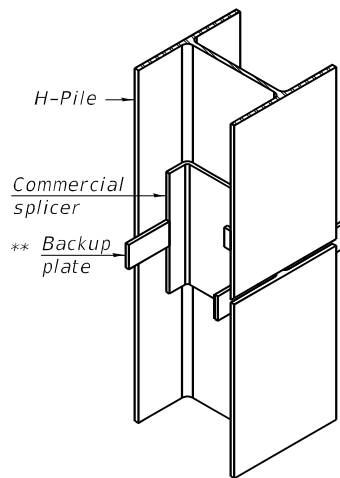


STEEL PILE TABLE

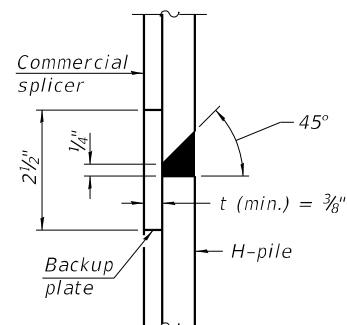
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



ELEVATION

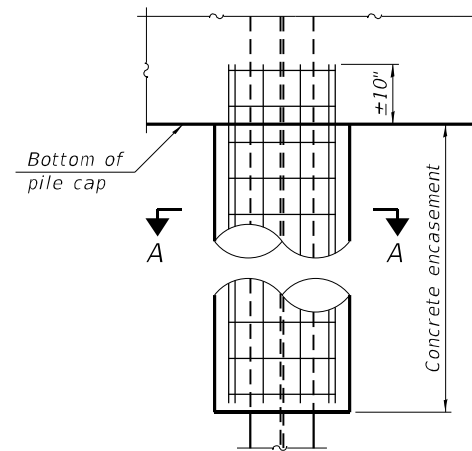


ISOMETRIC VIEW

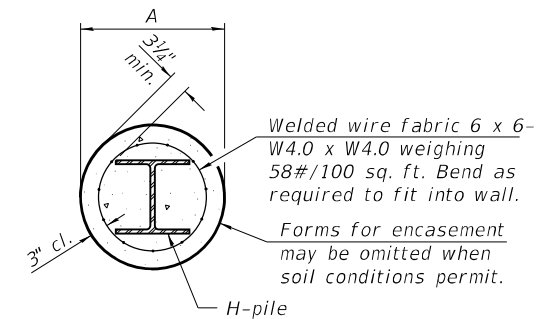


DETAIL "B"

WELDED COMMERCIAL SPLICE

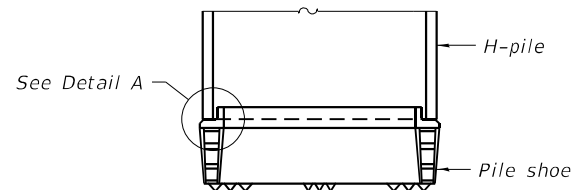


ELEVATION

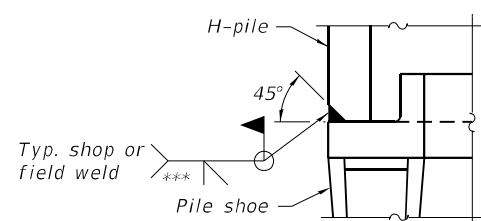


SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)



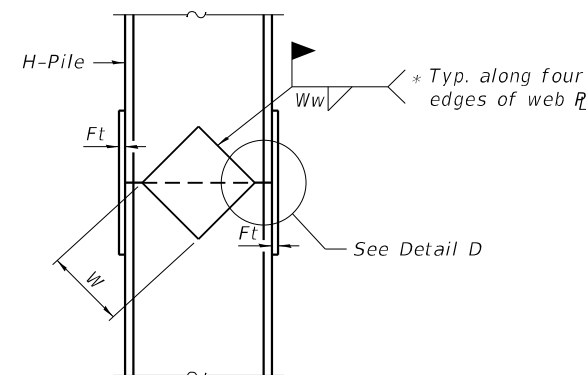
ELEVATION



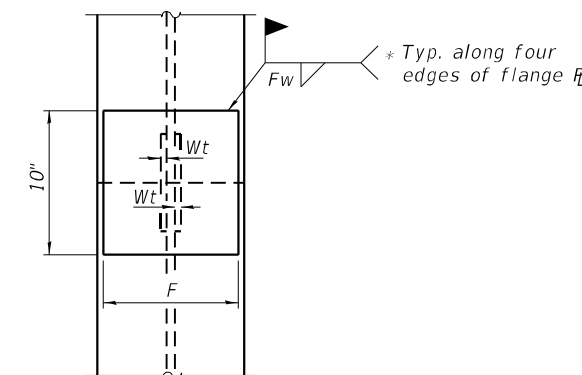
DETAIL A

SHOE ATTACHMENT

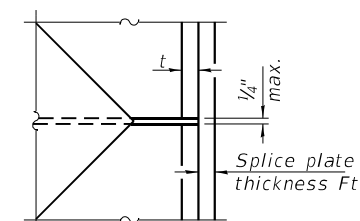
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION



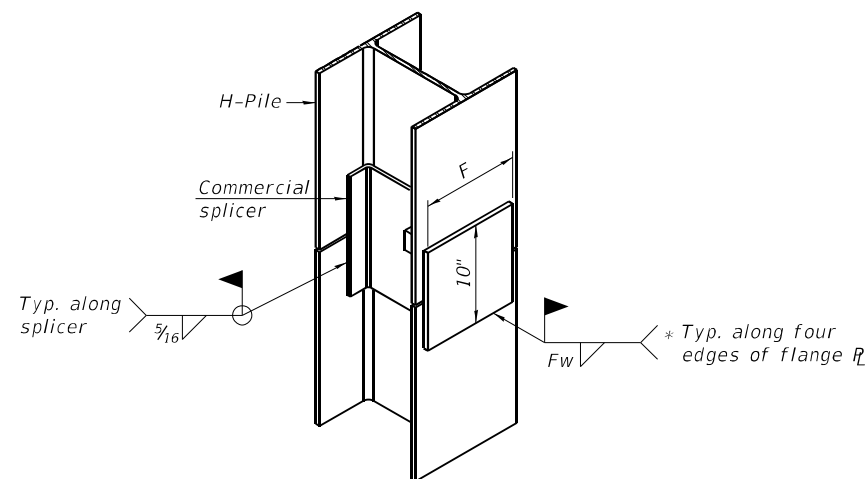
END VIEW



DETAIL D

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.).

F-HP 2-1-2023

MODEL: Default
FILE NAME: \\ROCHELLE\Drawings\Microstation\212.1-17188\CADData_SN_068-0016\CADsheets\0680508-72984-009-HPiles.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. IB4-003525

USER NAME =	mgopalraj	DESIGNED -	AMC	REVISED -	
PLOT SCALE =	0:2.0000 " = 1" / in.	CHECKED -	MCB	REVISED -	
PLOT DATE =	4/18/2023	DRAWN -	MG	REVISED -	
		CHECKED -	MCB/AMC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 068-2508

SHEET 9 OF 10 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	120a
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

FEHR GRAHAM PROJECT NUMBER: 10005-2



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 10/28/10

ROUTE FAP 325 DESCRIPTION Culvert carrying IL 16 over Trib to S. Fork of Sangamon River LOGGED BY M. Tappan

SECTION 18(B-2, B-3) LOCATION SW 1/4, SEC. 7, TWP. 10N, RNG. 1W, 3 PM

COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 068-2508
Station 142+95
BORING NO. 1-SE
Station 142+66
Offset 7.0R LT
Ground Surface Elev. 669.0 ft

DEPTH (ft)	BULGE (ft)	WATER (ft)	TEMP (F)	PERCENT (%)	DESCRIPTION	DEPTH (ft)	BULGE (ft)	WATER (ft)	TEMP (F)	PERCENT (%)
0					Black to Brown and Gray Moist SILTY CLAY (Fill)	0				
1						1				
2	1.1	25				2				
2	B					2				
663.50					Brown and Gray Moist LOAM to CLAY LOAM	663.50				
0						0				
1	0.7	18				1				
2	B					2				
641.50					Gray Moist CLAY LOAM (Till) Washed	641.50				
0						0				
1	0.6	21				1				
1	B					1				
668.00					Brown and Olive Gray Moist CLAY LOAM (Till)	668.00				
0						0				
1	0.9	21				1				
2	B					2				
656.00					Gray Wet Med SANDY GRAVEL FREE WATER	656.00				
0						0				
2						2				
3						3				
634.00					Boring Complete	634.00				
0						0				
2						2				
3						3				
6						6				
7						7				
6						6				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\SUSP\GINT FILES\MONTGOMERY\068-2508-16 OVER TRIB TO SOUTH FORK OF SANGAMON RIVER.GPJ Data Template: D:\TEMP\1\DOT Data Printed 12/1/11



Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 10/28/10

ROUTE FAP 325 DESCRIPTION Culvert carrying IL 16 over Trib to S. Fork of Sangamon River LOGGED BY M. Tappan

SECTION 18(B-2, B-3) LOCATION SW 1/4, SEC. 7, TWP. 10N, RNG. 1W, 3 PM

COUNTY Montgomery DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 068-2508
Station 142+95
BORING NO. 2-NW
Station 143+25
Offset 6.0R RT
Ground Surface Elev. 669.0 ft

DEPTH (ft)	BULGE (ft)	WATER (ft)	TEMP (F)	PERCENT (%)	DESCRIPTION	DEPTH (ft)	BULGE (ft)	WATER (ft)	TEMP (F)	PERCENT (%)
0					Dk Gray Moist SILTY CLAY (Fill)	0				
1						1				
2						2				
663.50					Gray Fine to Med SAND FREE WATER (continued)	663.50				
0						0				
1	0.9	20				1				
2	B					2				
661.00					Gray V Fine Sand WASHED	661.00				
0						0				
1	0.6	27				1				
2	B					2				
641.00					Gray Moist CLAY LOAM (Till)	641.00				
0						0				
1	0.9	22				1				
2	B					2				
634.00					Boring Complete	634.00				
0						0				
1	0.5	20				1				
1	B					1				
655.50					Lt Blue Gray Moist LOAM TO CLAY LOAM	655.50				
0						0				
1						1				
3						3				
634.00					Boring Complete	634.00				
0						0				
2						2				
4						4				
6						6				
8						8				
7						7				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

File Name: S:\SUSP\GINT FILES\MONTGOMERY\068-2508-16 OVER TRIB TO SOUTH FORK OF SANGAMON RIVER.GPJ Data Template: D:\TEMP\1\DOT Data Printed 12/1/11

MODEL: Default
FILE NAME: \R0C\HELLE\Drawings\Microstation\12112-1-7188\CADData_SN_068-0016\CADsheets\0680508-72984-010-borings.dgn



USER NAME = mgopalraj	DESIGNED - AMC	REVISED -
PLOT SCALE = 0:2,0000 " / in.	CHECKED - MCB	REVISED -
PLOT DATE = 4/18/2023	DRAWN - NMY	REVISED -
	CHECKED - MCB/AMC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 068-2508

SHEET 10 OF 10 SHEETS

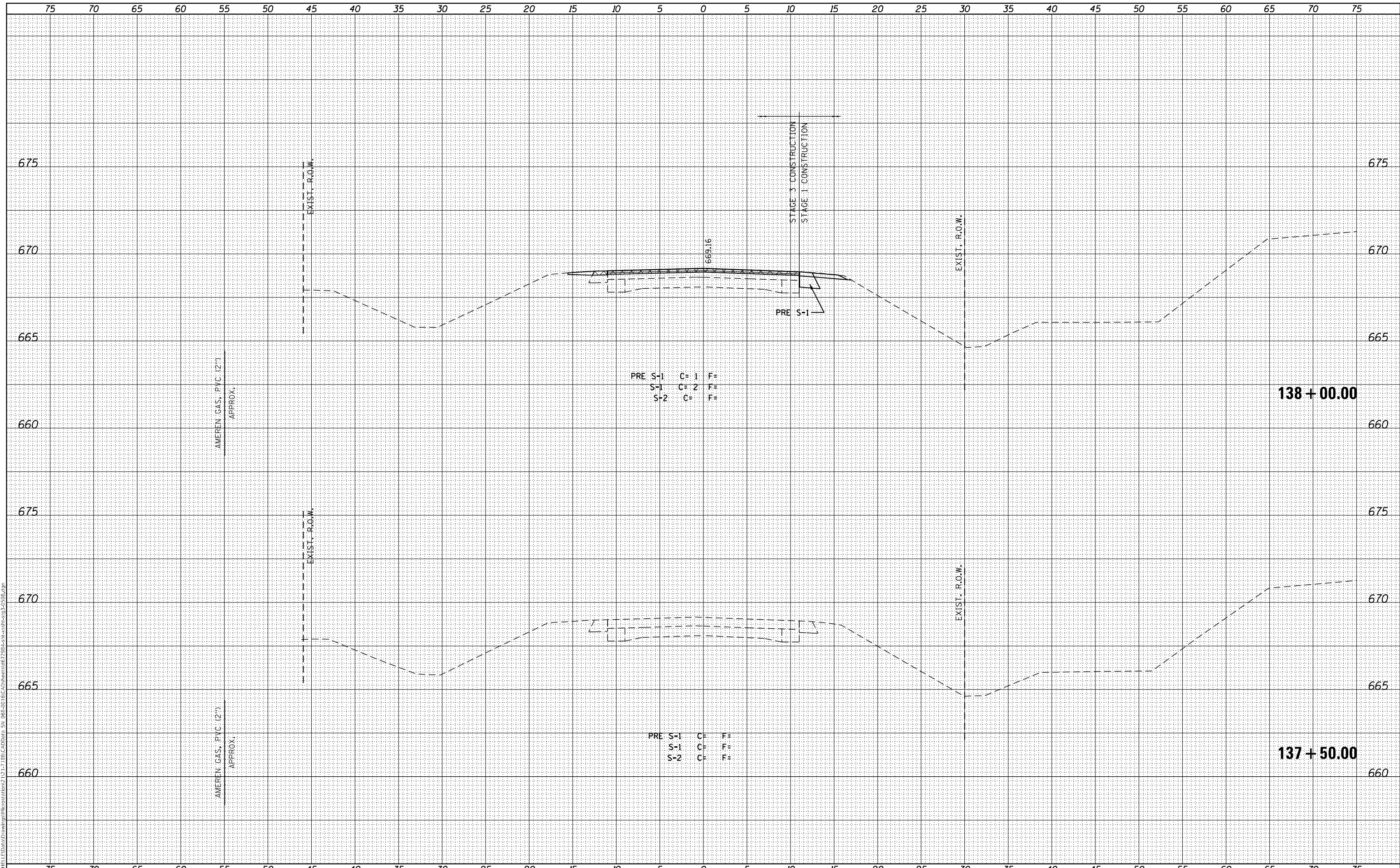
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	MONTGOMERY	142	121
CONTRACT NO. 72984			ILLINOIS FED. AID PROJECT	

FEHR GRAHAM PROJECT NUMBER: 10005-2

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

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

MODEL: Definit
 FILE NAME: W:\CHIEF\Drawings\11\restoration\1171181\CAD\data_S1_065-001\CAD\sheet\67298-16-cr-b-3-5508.dgn



PRE S-1 C= 1 F=
 S-1 C= 2 F=
 S-2 C= F=

PRE S-1 C= F=
 S-1 C= F=
 S-2 C= F=



USER NAME = mescahl
 PLOT SCALE = 10,000,000 ' / in.
 PLOT DATE = 5/9/2023

DESIGNED -
 DRAWN - CFC
 CHECKED - MCB
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

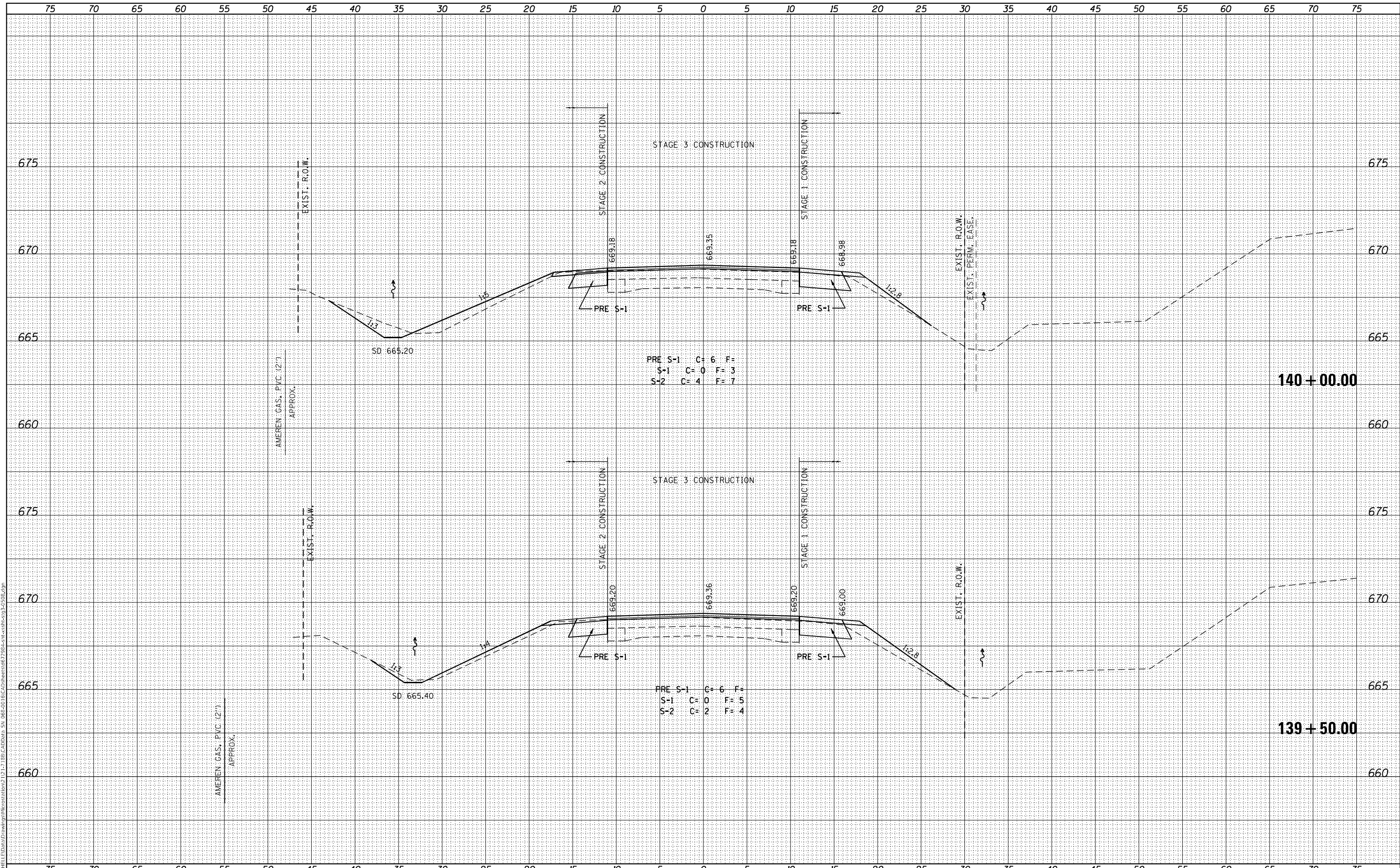
CROSS SECTIONS
 IL 16 SN 068-2508
 SCALE: SHEET 1 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	122
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definit
 FILE NAME: W:\CHIEF\Drawings\11\restoration\11\11-1181\CAD\DATA SN 065-0010\CAD\presta0672981.ctb;shb;stp;3-5-08.dgn



USER NAME	= mescahel
DESIGNED	-
DRAWN	- CFC
CHECKED	- MCB
DATE	-
PLOT SCALE	= 10,000,000 ' / in.
PLOT DATE	= 5/9/2023

REVISD	-
REVISD	-
REVISD	-
REVISD	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 16 SN 068-2508**

SCALE: SHEET 3 OF 13 SHEETS STA. TO STA.

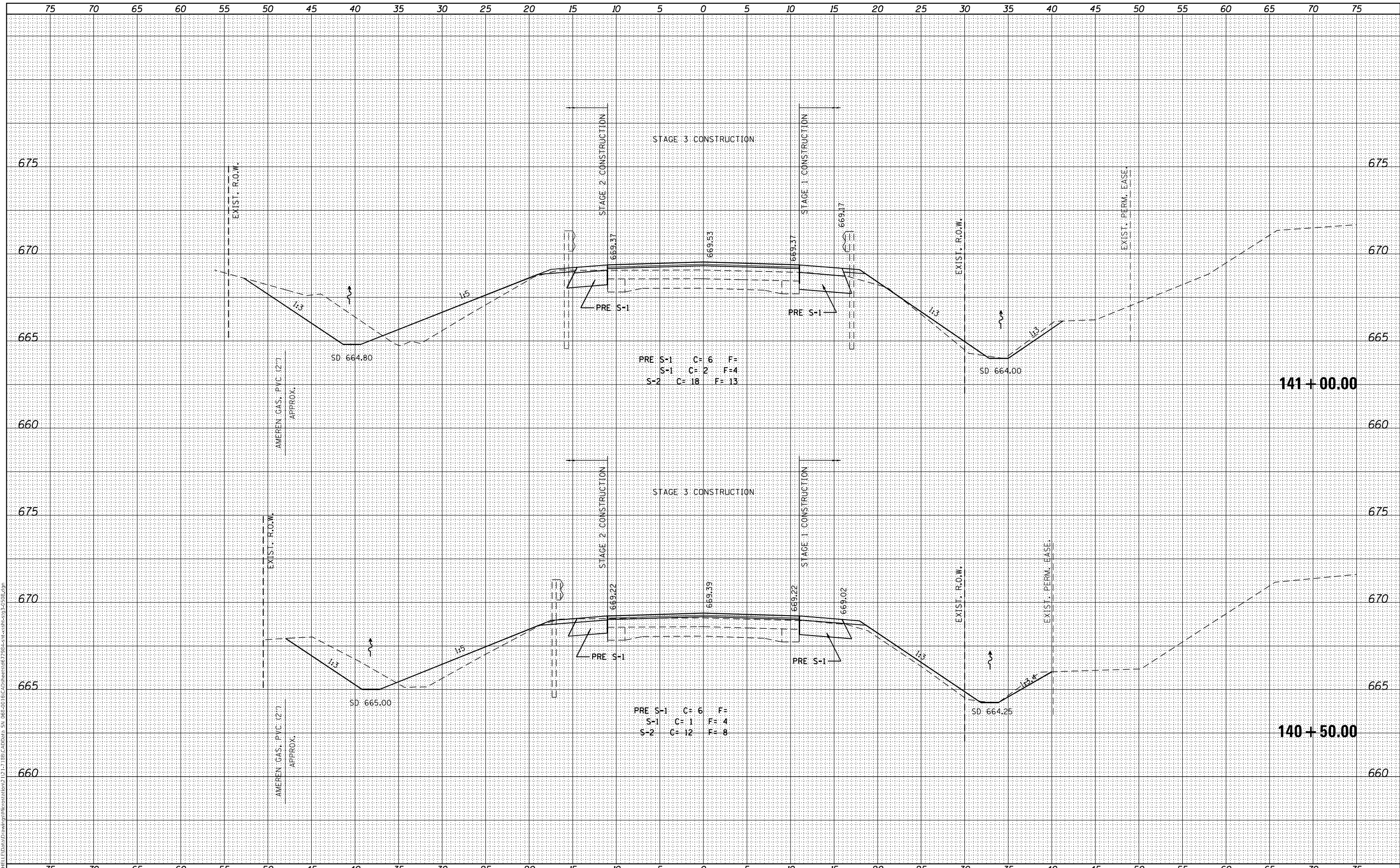
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	124
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
MONTGOMERY & CHRISTIAN				

FEHR GRAHAM PROJECT NUMBER: 10005-2

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

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

MODEL: Definit
 FILE NAME: W:\CHIEF\ED\Drawings\11\restoration\11\11-1188\CAD\DATA\SN_068-0016\CAD\presta067298a.ctb\cshb-03-30-08.dgn



USER NAME = mescahel
 PLOT SCALE = 10,000,000 ' / in.
 PLOT DATE = 5/9/2023

DESIGNED -
 DRAWN - CFC
 CHECKED - MCB
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 16 SN 068-2508

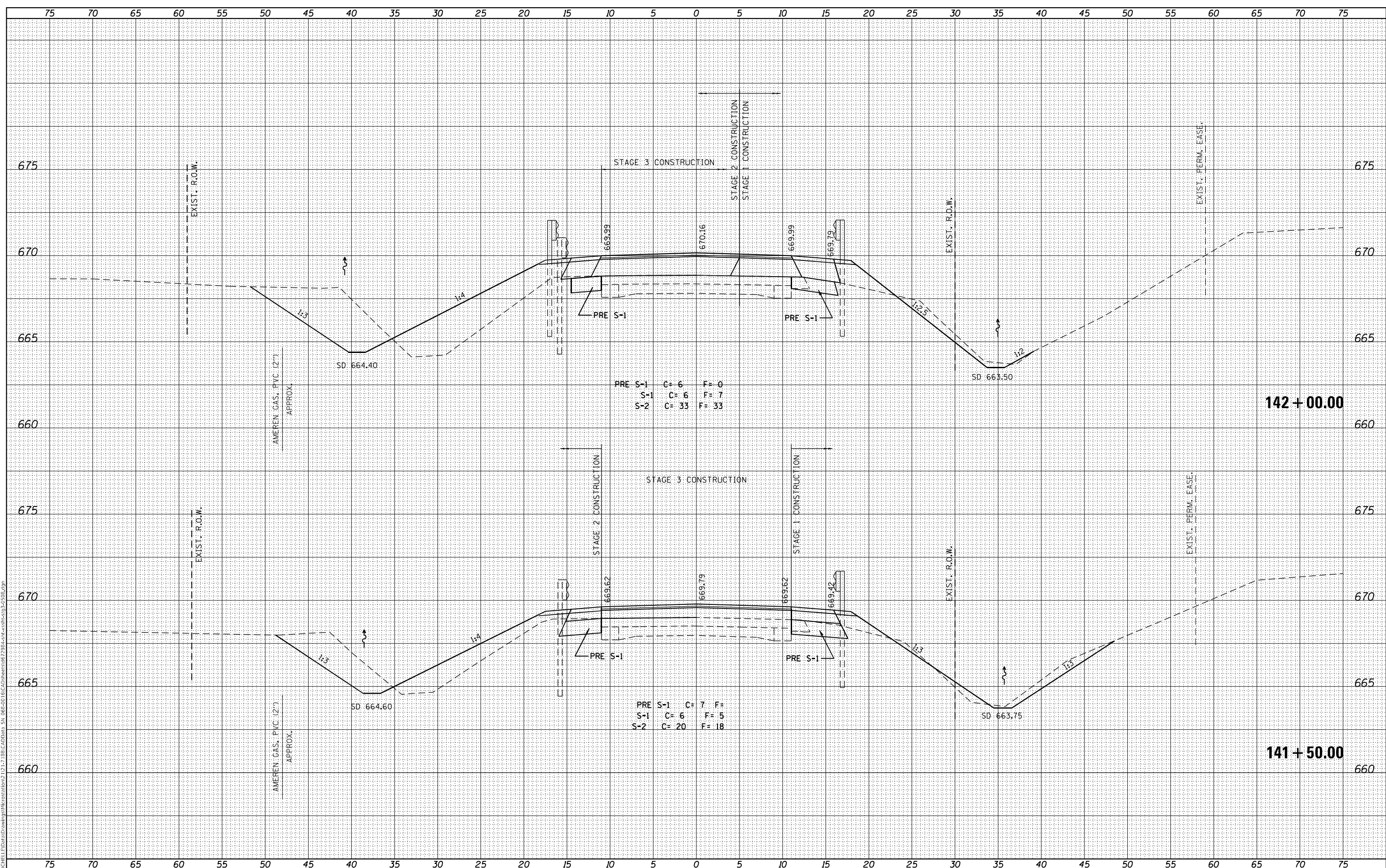
SCALE: SHEET 4 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	125
CONTRACT NO. 72984				

ILLINOIS FED. AID PROJECT
 MONTGOMERY & CHRISTIAN

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	TEMPLATE
NO.	AREAS CHECKED



PRE S-1 C= 6 F= 0
 S-1 C= 6 F= 7
 S-2 C= 33 F= 33

PRE S-1 C= 7 F= 5
 S-1 C= 6 F= 5
 S-2 C= 20 F= 18



USER NAME = mescatell
 PLOT SCALE = 10,000,000 ' / in.
 PLOT DATE = 5/9/2023

DESIGNED -
 DRAWN - CFC
 CHECKED - MCB
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 16 SN 068-2508

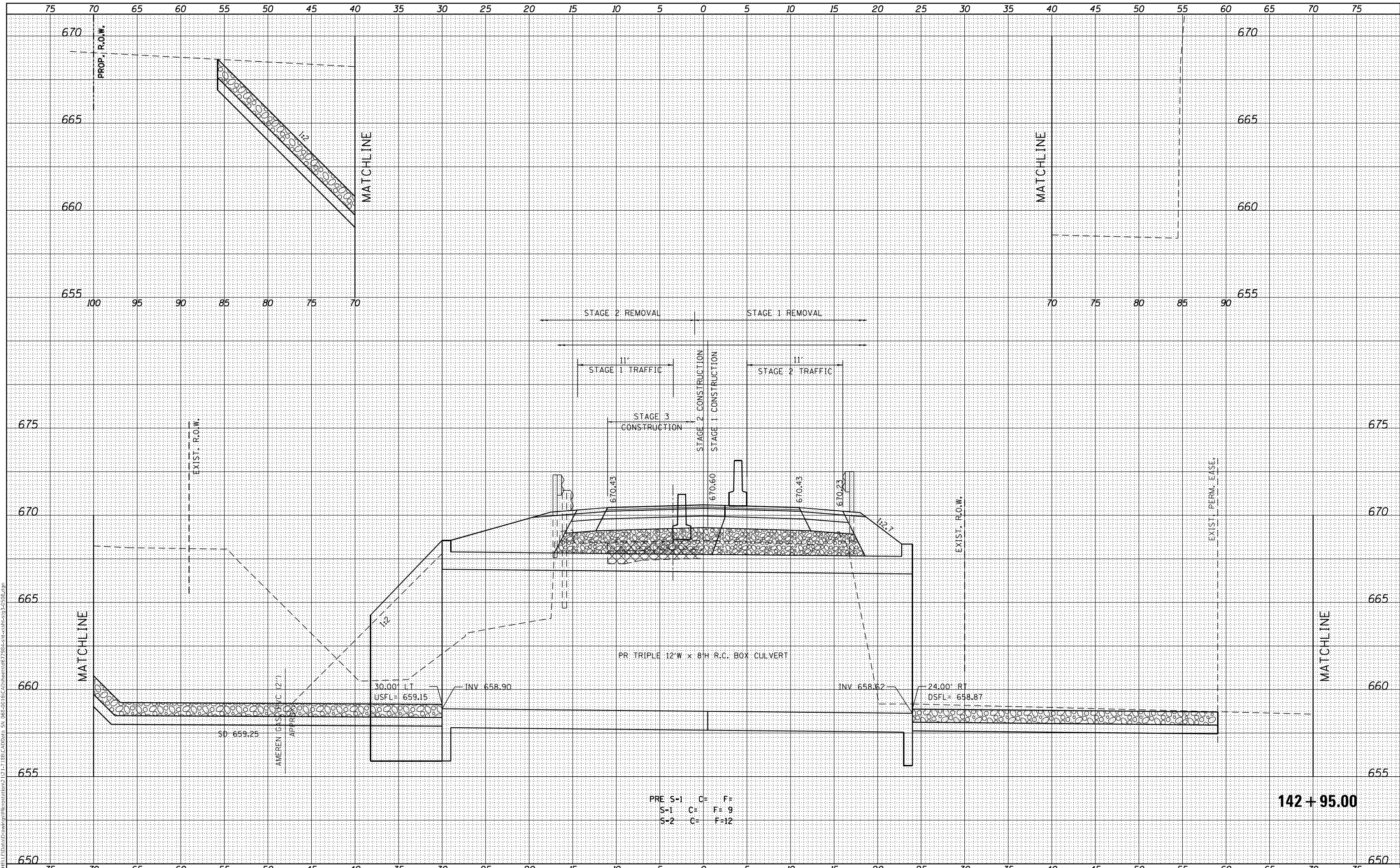
SCALE: SHEET 5 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	126
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definit
FILE NAME: \\g:\chell\p\Drawings\Illinois\142+95.00\142+95.00.dwg



PRE S-1 C= F=
S-1 C= F= 9
S-2 C= F=12

142 + 95.00



USER NAME = mescatell
PLOT SCALE = 10,000,000 ' / in.
PLOT DATE = 5/16/2023

DESIGNED -
DRAWN - CFC
CHECKED - MCB
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 16 SN 068-2508

SCALE: SHEET 7 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	128
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
MONTGOMERY & CHRISTIAN				

FEHR GRAHAM PROJECT NUMBER: 10005-2

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

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

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525
FEHR GRAHAM PROJECT NUMBER: 10005-2

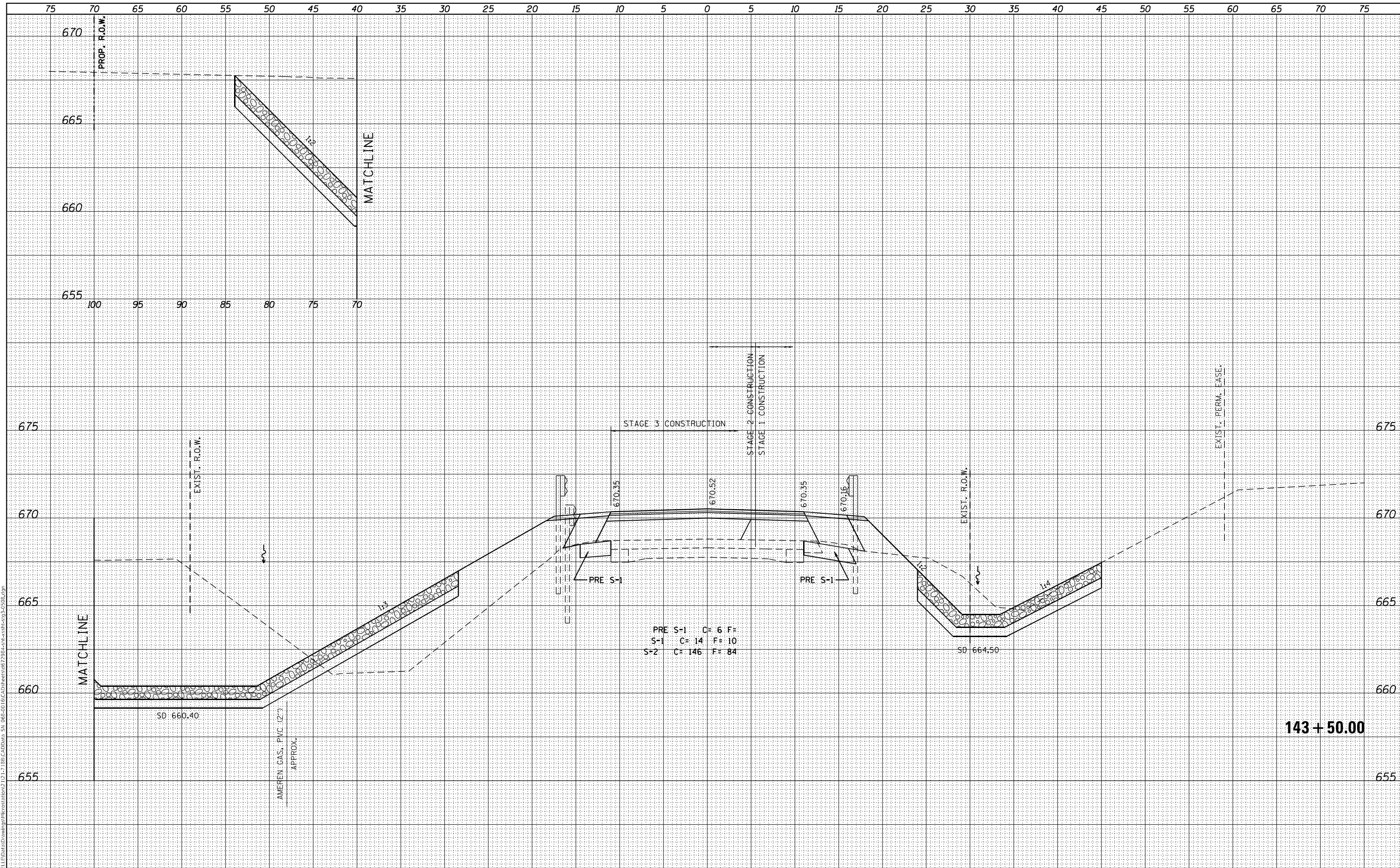
USER NAME = mescatell	DESIGNED -	REVISD -
PLOT SCALE = 10,000,000 ' / in.	DRAWN - CFC	REVISD -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISD -
	DATE -	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
IL 16 SN 068-2508**

SCALE: SHEET 8 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	129
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
MONTGOMERY & CHRISTIAN				



143 + 50.00

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

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

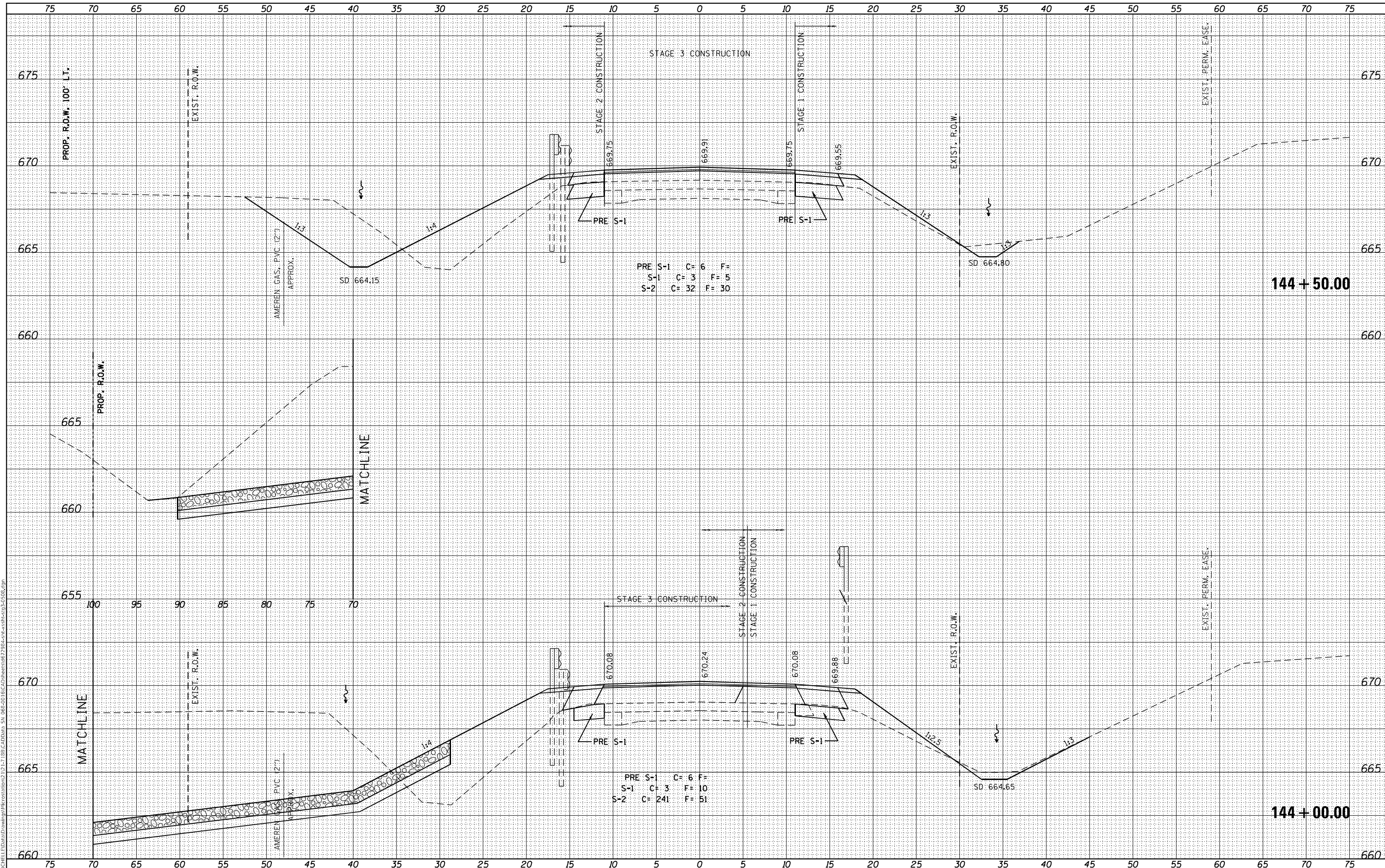
FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525
FEHR GRAHAM PROJECT NUMBER: 10005-2

USER NAME = mescahel	DESIGNED -	REVISED -
PLOT SCALE = 10,000,000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS		
IL 16 SN 068-2508		
SCALE:	SHEET 9 OF 13 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	130
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
* MONTGOMERY & CHRISTIAN				

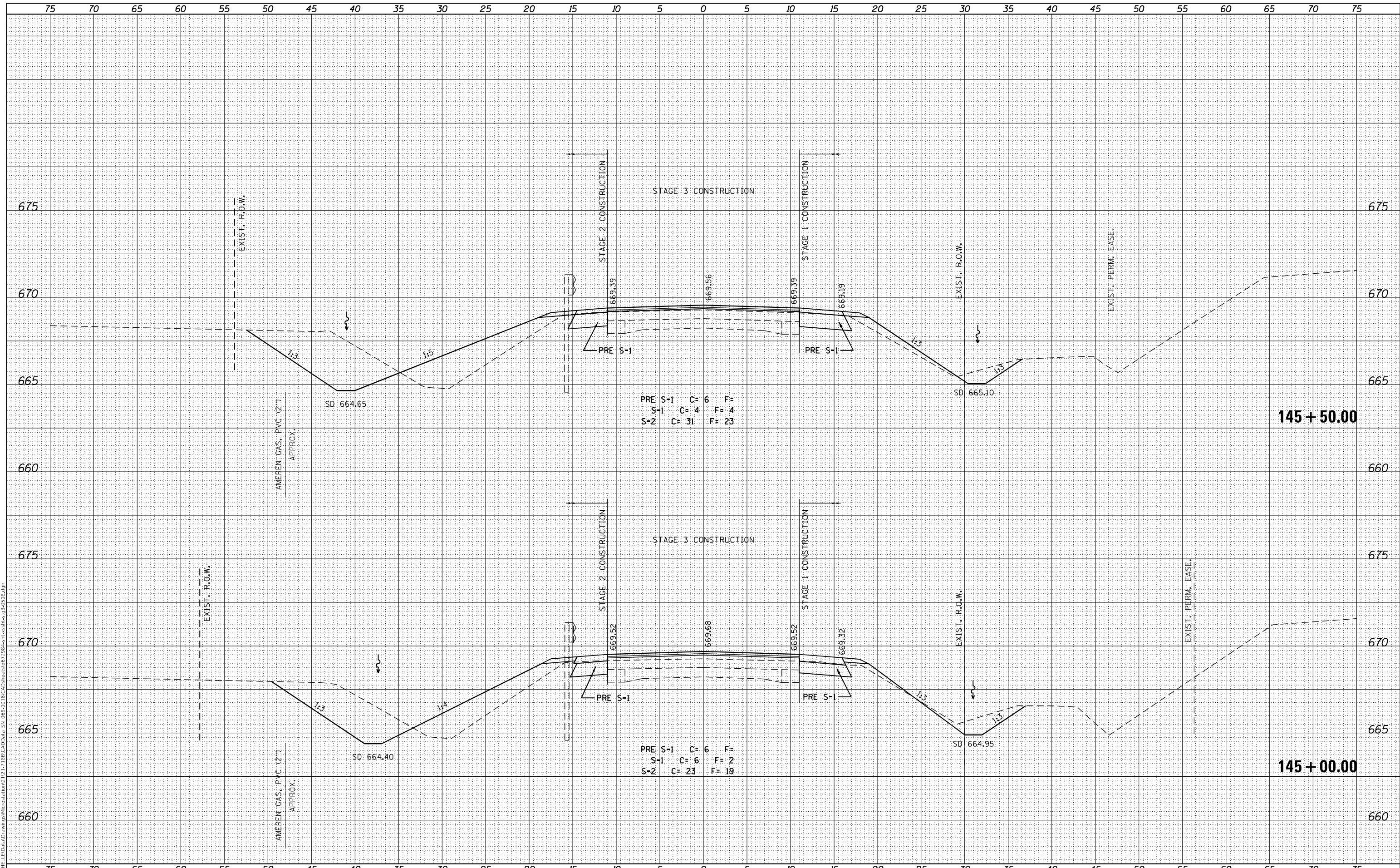


MODEL: Definitive
 FILE NAME: W:\CHIEF\EDrawings\11restoration\17171718\CAD\Drawings\17171718\CAD\Drawings\17171718\17171718.dwg
 MODEL: Definitive
 FILE NAME: W:\CHIEF\EDrawings\11restoration\17171718\CAD\Drawings\17171718\CAD\Drawings\17171718\17171718.dwg

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

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

MODEL: Definit
 FILE NAME: W:\CHIEF\ED\Drawings\11\restoration\11\11-1188\CAD\data_S1_085-0010\CAD\restor11\11-1188\restor11-3-5108.dgn



PRE S-1 C= 6 F= 4
 S-1 C= 4 F= 4
 S-2 C= 31 F= 23

PRE S-1 C= 6 F= 2
 S-1 C= 6 F= 2
 S-2 C= 23 F= 19



USER NAME = mescahl
 PLOT SCALE = 10,000,000 ' / in.
 PLOT DATE = 5/9/2023

DESIGNED -
 DRAWN - CFC
 CHECKED - MCB
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 IL 16 SN 068-2508

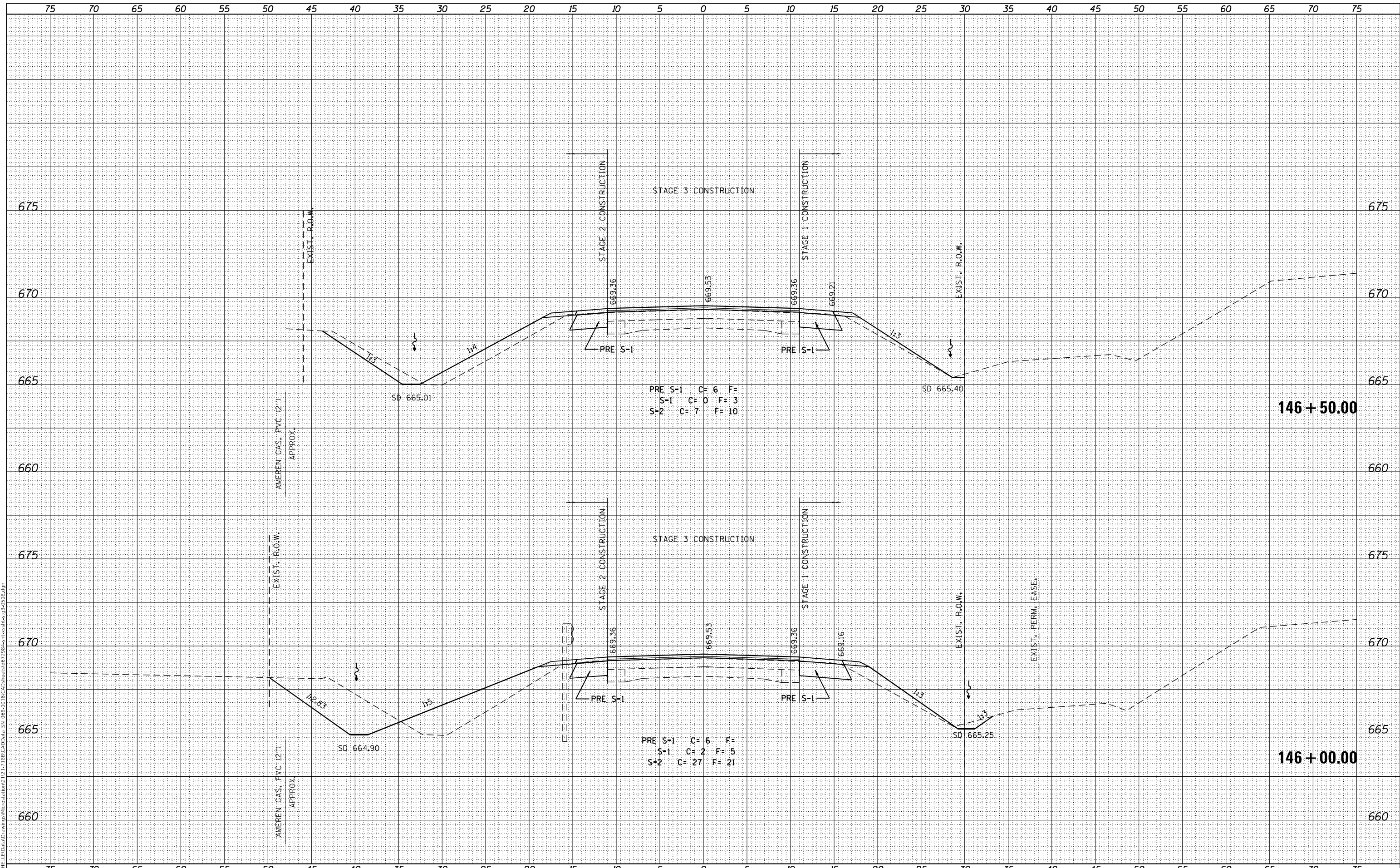
SCALE: SHEET 10 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	131
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
MONTGOMERY & CHRISTIAN				

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

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

MODEL: Definit
 FILE NAME: W:\CHIEF\ED\Drawings\11\restoration\11\11-1181\CAD\DATA_S\065-0010\CAD\restor\67298-11\cross-sections\3-5508.dgn



**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
 IL 16 SN 068-2508**



USER NAME = mescahel
 PLOT SCALE = 10,000,000 ' / in.
 PLOT DATE = 5/9/2023

DESIGNED -
 DRAWN - CFC
 CHECKED - MCB
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

SCALE: SHEET 11 OF 13 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	132
CONTRACT NO. 72984				

DATE	BY
SURVEYED	TEMPLATED
NOTED	NOTED
NO.	NO.
AREAS CHECKED	AREAS CHECKED

DATE	BY
SURVEYED	TEMPLATED
NOTED	NOTED
NO.	NO.
AREAS CHECKED	AREAS CHECKED

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525
FEHR GRAHAM PROJECT NUMBER: 10005-2

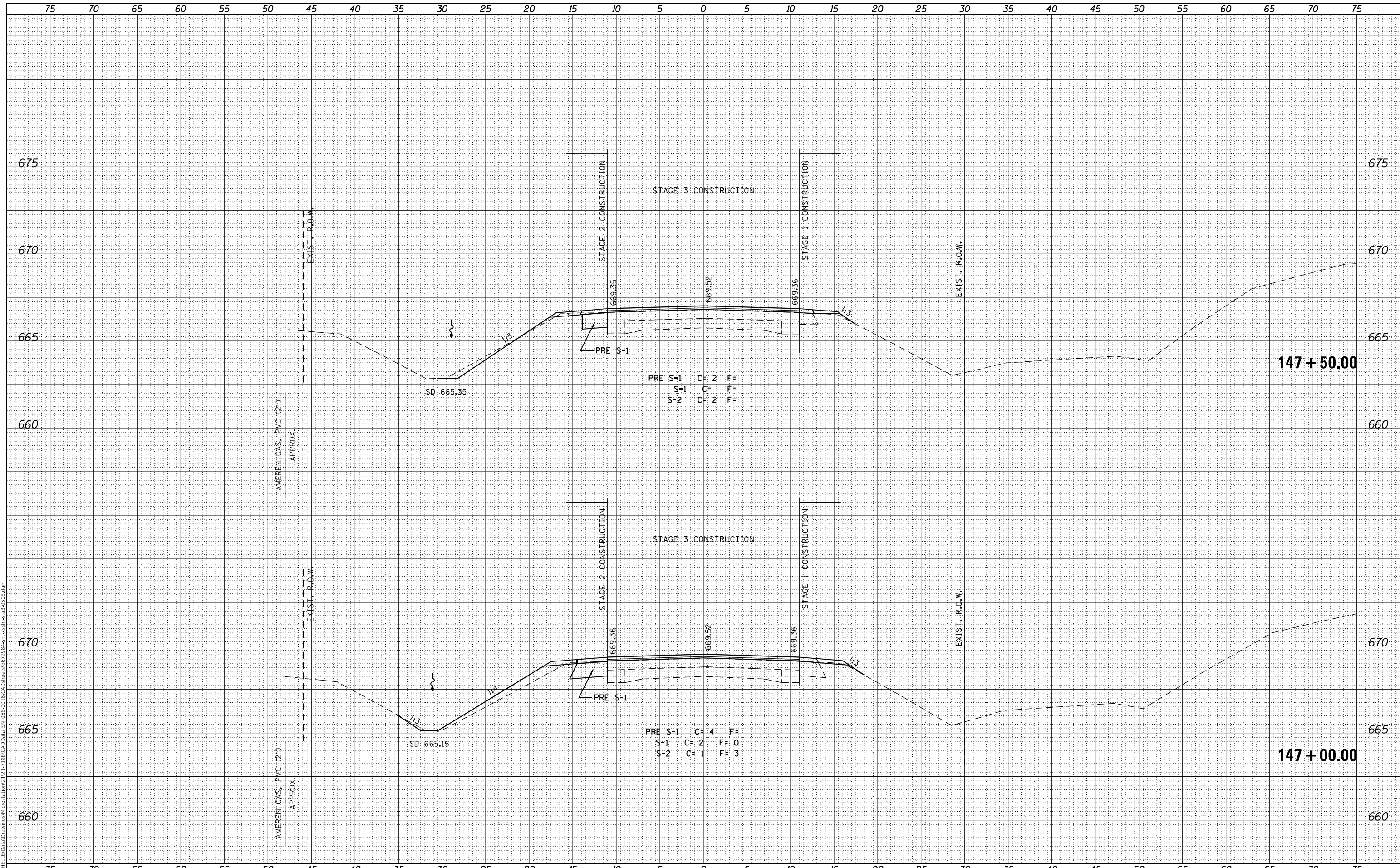
USER NAME = mescahel	DESIGNED -	REVISID -
PLOT SCALE = 10,000,000 ' / in.	DRAWN - CFC	REVISID -
PLOT DATE = 5/9/2023	CHECKED - MCB	REVISID -
	DATE -	REVISID -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
IL 16 SN 068-2508**

SCALE: SHEET 12 OF 13 SHEETS STA. TO STA.

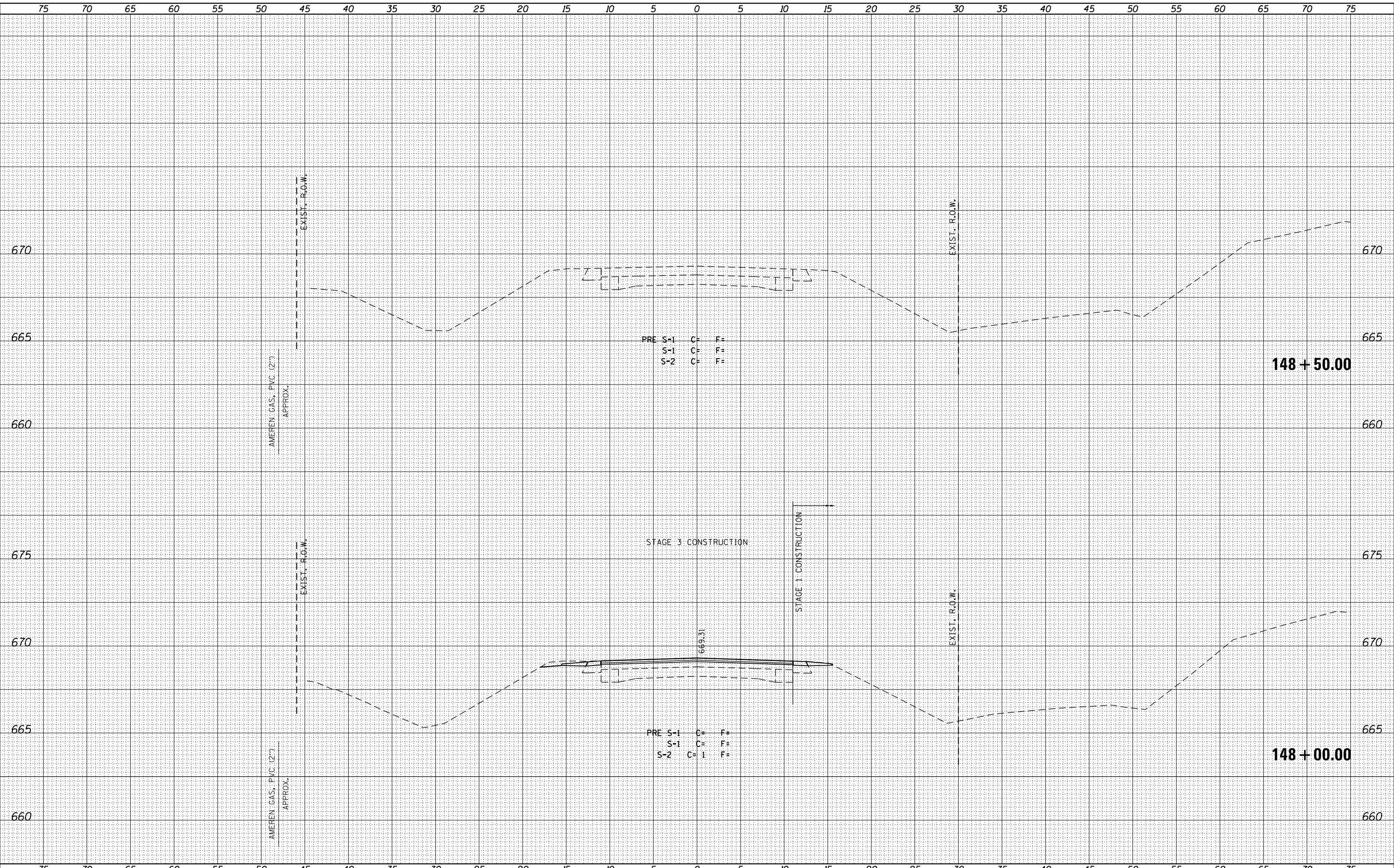
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	133
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				
* MONTGOMERY & CHRISTIAN				



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

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

MODEL: Definit
FILE NAME: W:\CHIEF\ED\Drawings\11\restoration\11\11_1181\CAD\DATA_S1_065-0010\CAD\restor11\1181\chicohsah-11-3-5106.dgn



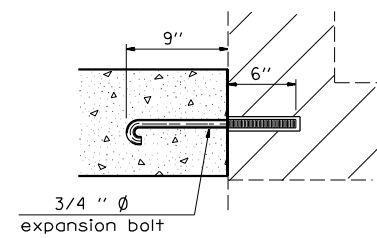
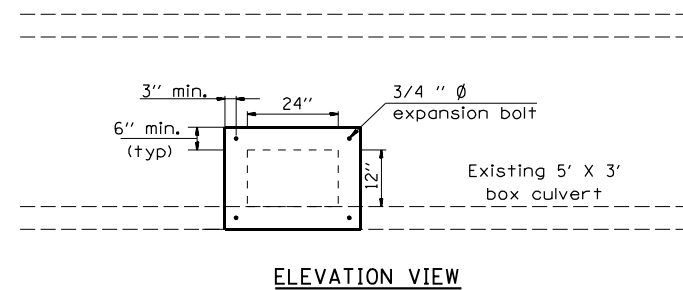
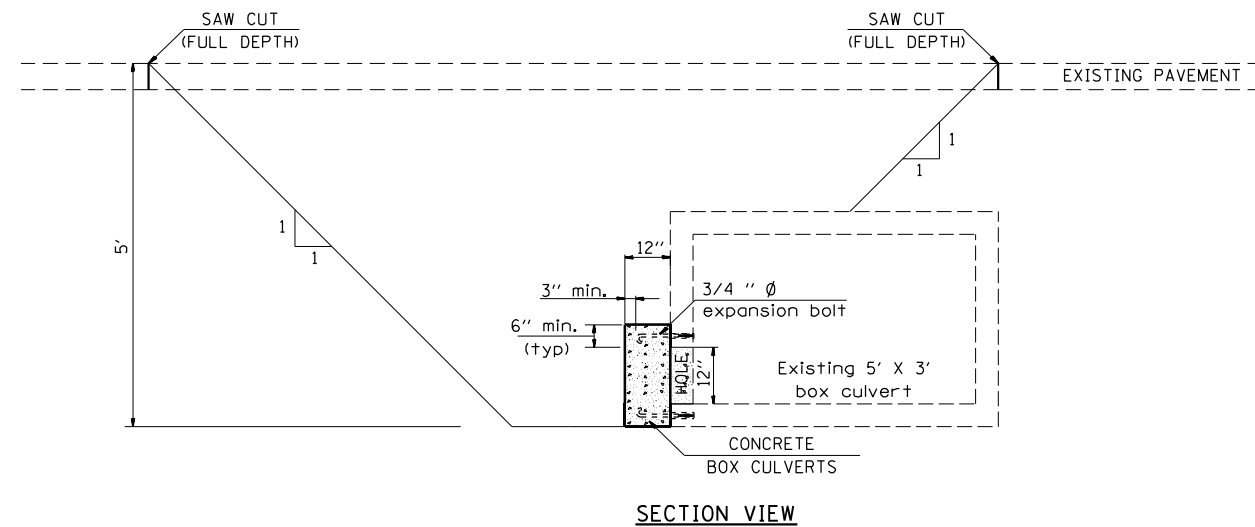
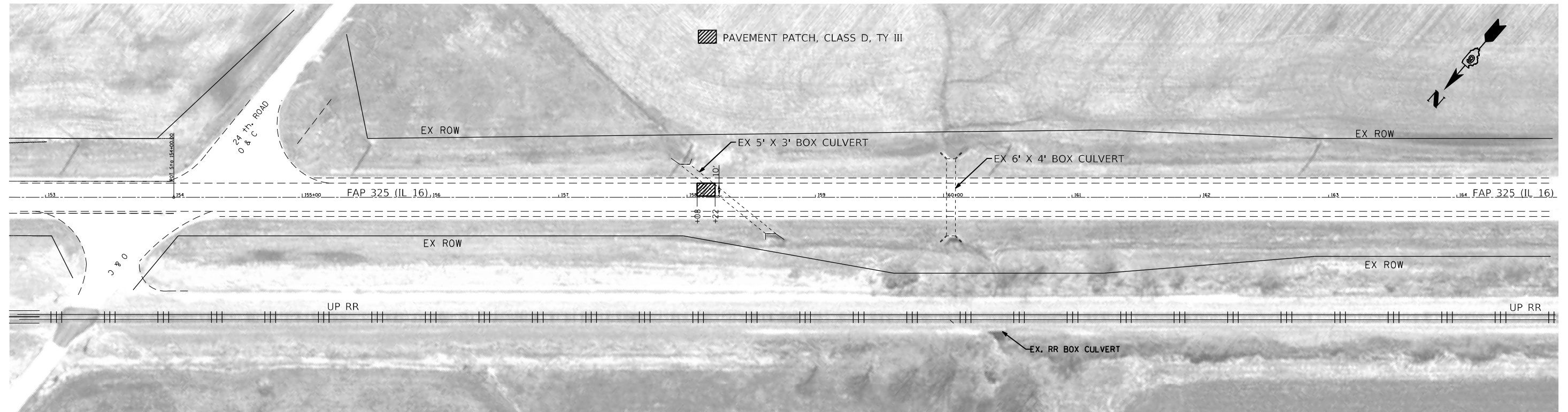
FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525
FEHR GRAHAM PROJECT NUMBER: 10005-2

USER NAME = mescahel	DESIGNED -	REvised -
PLOT SCALE = 10,000,000 ' / in.	DRAWN - CFC	REvised -
PLOT DATE = 5/9/2023	CHECKED - MCB	REvised -
	DATE -	REvised -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS IL 16 SN 068-2508			
SCALE:	SHEET 13	OF 13 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	134
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				MONTGOMERY & CHRISTIAN



NOTES:

1. THE EXISTING CULVERT HAS A HOLE IN THE NORTH FACE APPROXIMATELY 26 FEET FROM THE EAST HEADWALL.
2. TRAFFIC SHALL BE CONTROLLED WITH HIGHWAY STANDARD 701201.
3. THE CONTRACTOR SHALL SAW CUT THE PAVEMENT FULL DEPTH AS SHOWN ON THE DETAIL.
4. PAVEMENT SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS.
5. THE EDGES OF THE HOLE SHALL BE SAW CUT TO SQUARE OFF THE OPENING PRIOR TO PLUGGING THE HOLE.
6. THE CONTRACTOR SHALL INSTALL EXPANSION BOLTS AS SHOWN.
7. CONCRETE BOX CULVERTS SHALL BE PLACED AS SHOWN TO SEAL OFF THE HOLE IN THE CULVERT.
8. CONTROLLED LOW-STRENGTH MATERIAL SHALL BE PLACED IN ACCORDANCE WITH SECTION 1019 OF THE STANDARD SPECIFICATIONS.
9. THE CONTRACTOR SHALL PLACE PAVEMENT PATCHING, TYPE III IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATIONS.

Notes:

1. Expansion bolts shall consist of self drilling expansion shields and 3/4" Ø hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete. Minimum Certified Proof Load - 4,080 lbs.
2. Use minimum of 1 (one) expansion bolt at each corner.

MODEL: Default
 FILE NAME: \\pilot-caw-beadley.com\Pilot\DOT\Documents\DOT Office\Dir\Dir: E:\Project\10672984\CADD\data\CADD\Sheet\068-7076-eps\1r.dgn

USER NAME = Christopher.Siefert	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 80,000000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/7/2023	DATE -	REVISED -

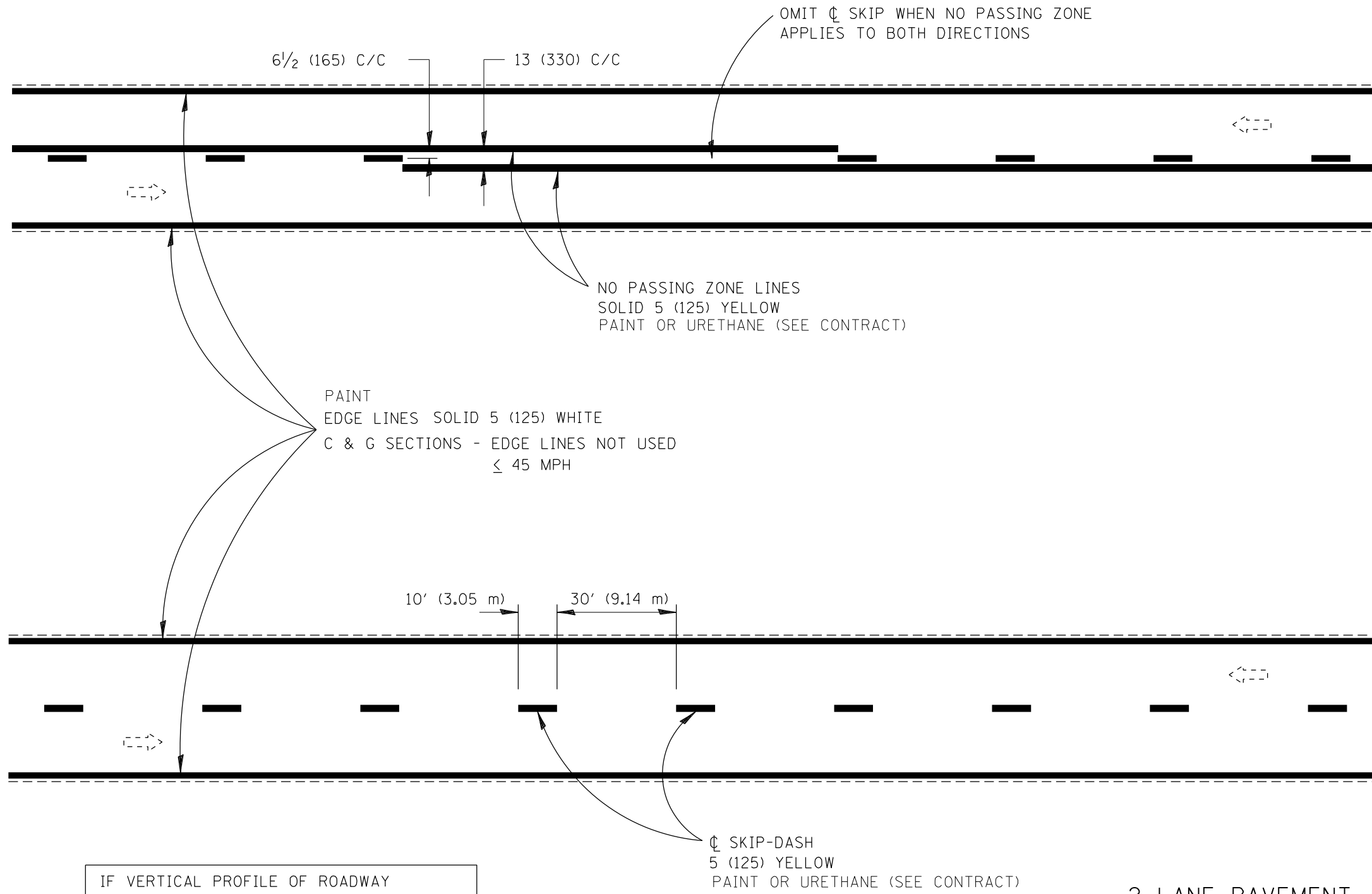
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CULVERT REPAIR
SN 068-7076**

SCALE: 1"=80' SHEET 1 OF 1 SHEETS STA. N/A TO STA. N/A

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	135
CONTRACT NO. 72984				

ILLINOIS FED. AID PROJECT
* MONTGOMERY & CHRISTIAN



IF VERTICAL PROFILE OF ROADWAY IS CHANGED DURING CONSTRUCTION, "NO PASSING ZONES" ARE TO BE FIELD VERIFIED BY THE BUREAU OF OPERATIONS. THE RESIDENT ENGINEER SHALL NOTIFY THE BUREAU OF OPERATIONS 14 DAYS PRIOR TO PERMANENT PAVEMENT MARKINGS.

2 LANE PAVEMENT

MODEL: Default
 FILE NAME: C:\Users\jstewart\OneDrive\Documents\DOT Office\Drawings\Project\10005-2\15-1027F\CADD\data\CADD\sheet\0672984-sh-001.dgn
 FEHR GRAHAM PROJECT NUMBER: 10005-2 (15-1027F)



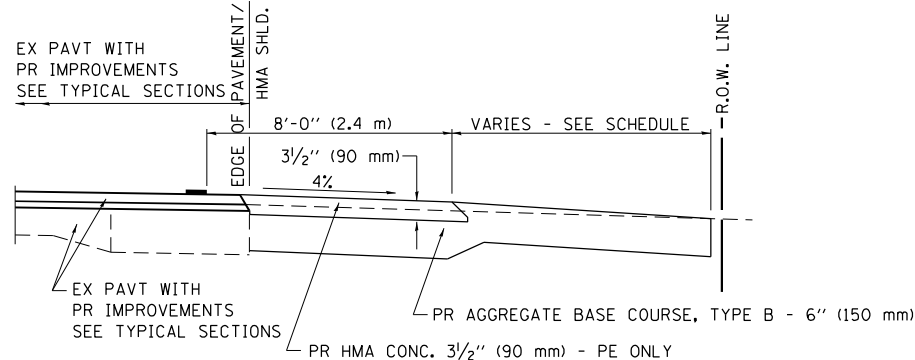
USER NAME = Christopher.Siefert	DESIGNED -	REVISED -
PLOT SCALE = 80,000,000 ' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 4/7/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

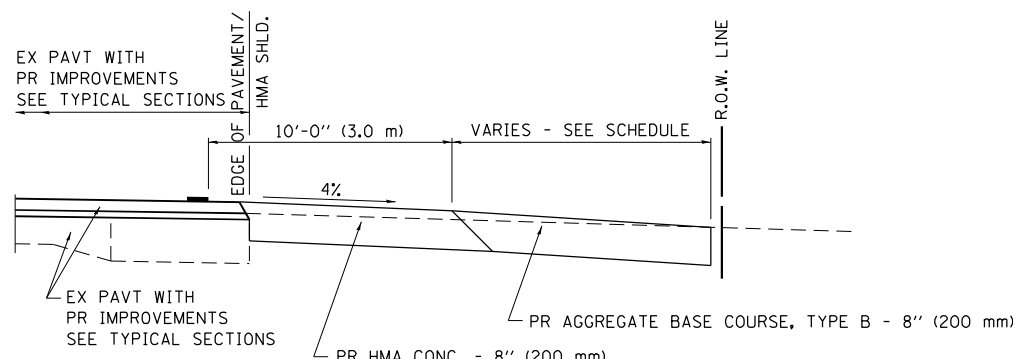
MISCELLANEOUS DETAILS
PAVEMENT MARKING

SCALE:	SHEET 1	OF 7	SHEETS	STA.	TO STA.
--------	---------	------	--------	------	---------

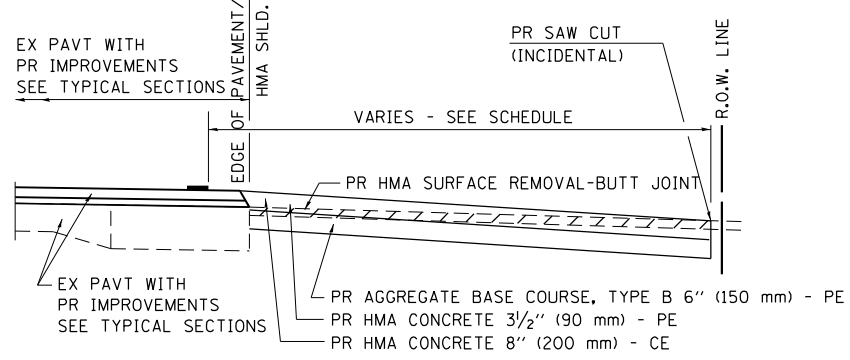
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	136
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				



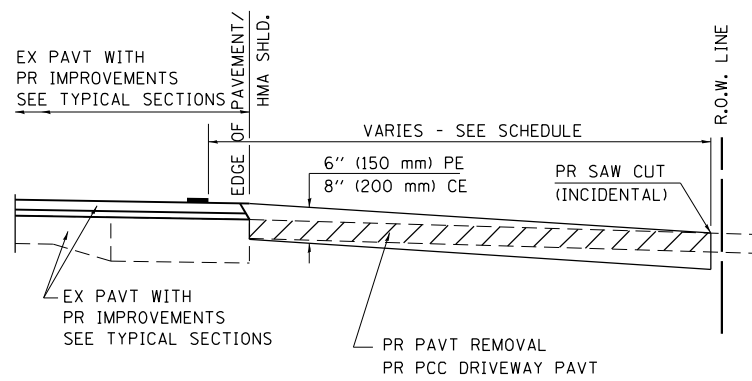
SECTION A-A FOR EX EARTH/AGGREGATE FE & PE



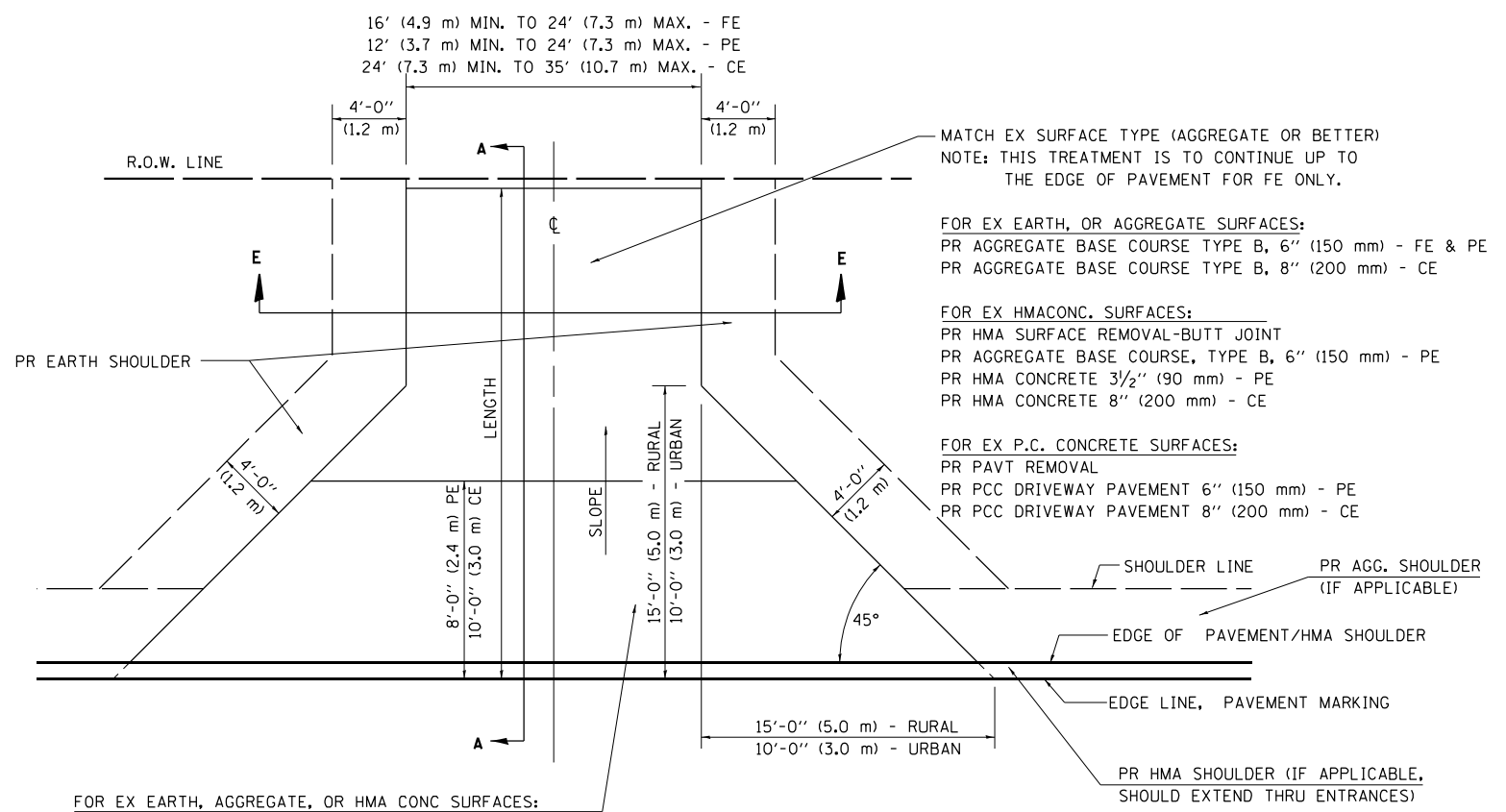
SECTION A-A FOR EX EARTH/AGGREGATE CE



SECTION A-A FOR EX HMA PE & CE



SECTION A-A FOR EX P.C. CONC. PE & CE



FOR EX EARTH, AGGREGATE, OR HMA CONC SURFACES:
 PR HMA SURFACE REMOVAL-BUTT JOINT (IF APPLICABLE)
 PR AGGREGATE BASE COURSE TYPE B 6" (150 mm) - FE
 PR AGGREGATE BASE COURSE TYPE B, 6" (150 mm) &
 PR HMA CONCRETE 3 1/2" (90 mm) - PE
 PR HMA CONCRETE 8" (200 mm) - CE

FOR P.C. CONCRETE SURFACES:
 PR PAVT REMOVAL
 PR PCC DRIVEWAY PAVT 6" (150 mm) - PE
 PR PCC DRIVEWAY PAVT 8" (200 mm) - CE

MATCH EX SURFACE TYPE (AGGREGATE OR BETTER)
 NOTE: THIS TREATMENT IS TO CONTINUE UP TO
 THE EDGE OF PAVEMENT FOR FE ONLY.

FOR EX EARTH, OR AGGREGATE SURFACES:
 PR AGGREGATE BASE COURSE TYPE B, 6" (150 mm) - FE & PE
 PR AGGREGATE BASE COURSE TYPE B, 8" (200 mm) - CE

FOR EX HMA/CONC. SURFACES:
 PR HMA SURFACE REMOVAL-BUTT JOINT
 PR AGGREGATE BASE COURSE, TYPE B, 6" (150 mm) - PE
 PR HMA CONCRETE 3 1/2" (90 mm) - PE
 PR HMA CONCRETE 8" (200 mm) - CE

FOR EX P.C. CONCRETE SURFACES:
 PR PAVT REMOVAL
 PR PCC DRIVEWAY PAVEMENT 6" (150 mm) - PE
 PR PCC DRIVEWAY PAVEMENT 8" (200 mm) - CE

GENERAL NOTES:

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

HMA CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE HMA CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 3 INCHES (75 mm) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF HMA BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 2 INCHES (50 mm) SHALL MEET THE REQUIREMENTS OF HMA CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.

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

SECTION E - E ENTRANCE TYPICAL SECTION

NOTE 1: WIDTH OF ENTRANCE MAY BE INCREASED AT THE PIPE CULVERT DUE TO THE DITCHLINE BEING LOCATED IN THE ENTRANCE FLARE AREA.

MODEL: Default
 FILE NAME: p:\projects\paw\benefit\com\paw\DOT\Documents\DOT Office\Drawings\6\Project\0572984\CADD\DATA\CADD\Sheet\0572984-ent-entr-002.dgn
 FEHR GRAHAM PROJECT NUMBER: 10005-2 (15-1027F)



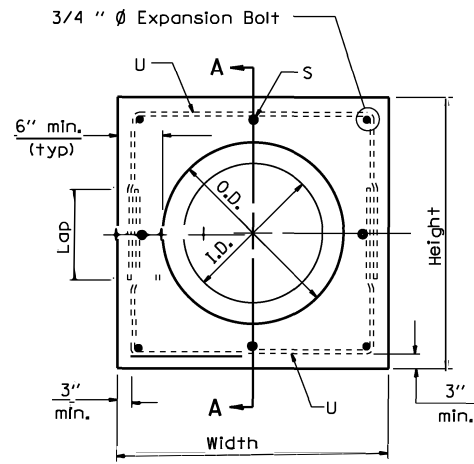
USER NAME = Christopher.Siefert	DESIGNED -	REVISED -
PLOT SCALE = 40,000/000' / in.	DRAWN - CFC	REVISED -
PLOT DATE = 4/7/2023	CHECKED - MCB	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

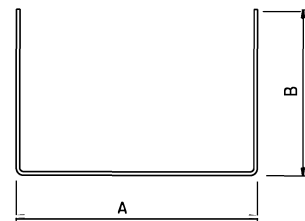
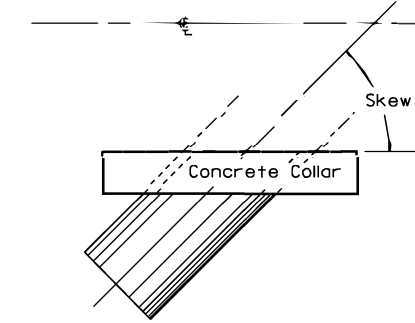
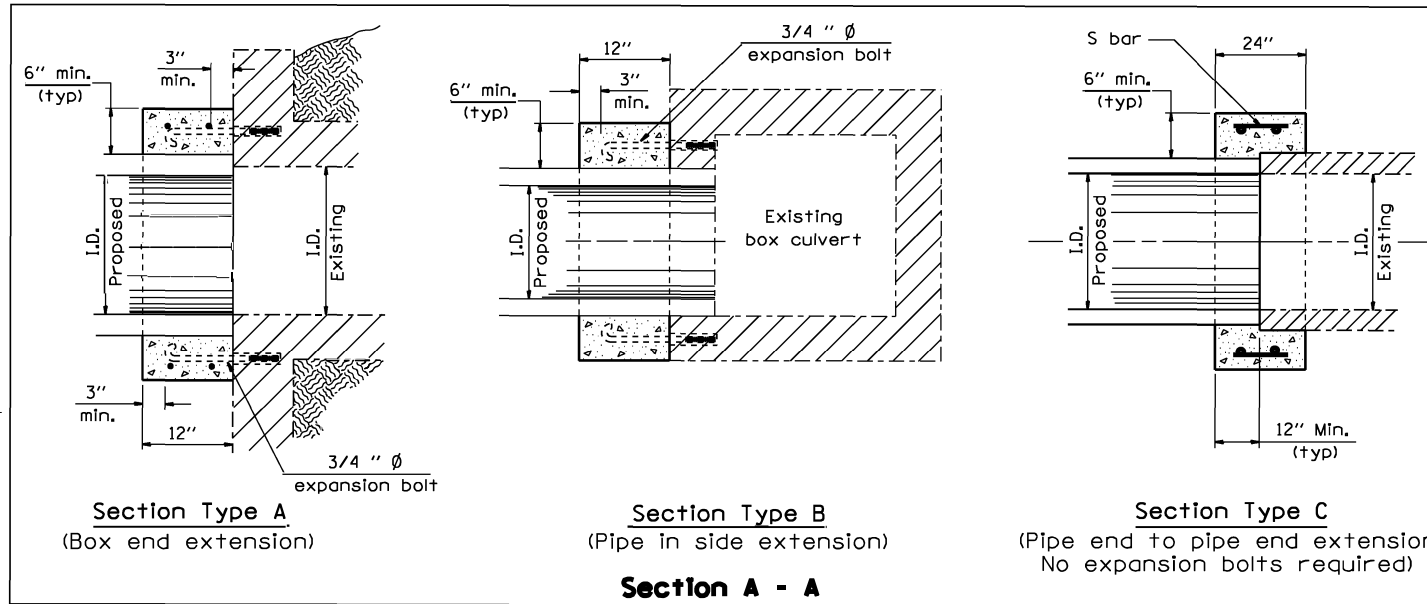
**MISCELLANEOUS DETAILS
 ENTRANCE**

SCALE: SHEET 2 OF 7 SHEETS STA. TO STA.

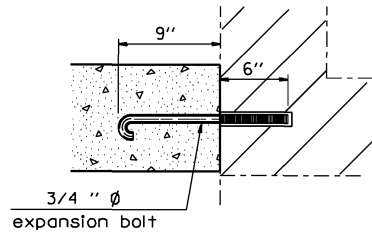
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	137
CONTRACT NO. 72984				



PIPE CULVERT EXTENSION COLLAR



#4 U - bar

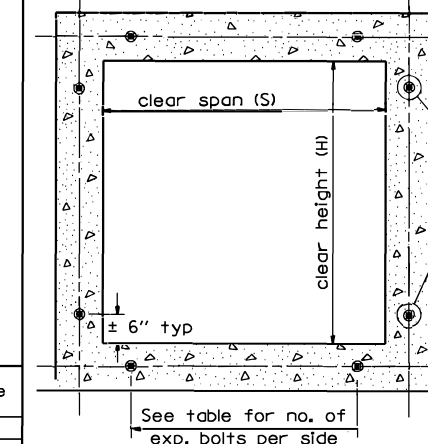


Expansion Bolt Detail

Notes:

- Expansion bolts shall consist of self drilling expansion shields and 3/4" diameter hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete. Minimum Certified Proof Load - 4,080 lbs.
- Use minimum of 1 (one) expansion bolt at each corner.

BOX CULVERT POURED IN PLACE EXTENSION



Section Thru Barrel

EXPANSION BOLTS REQUIRED FOR CULVERT EXTENSIONS

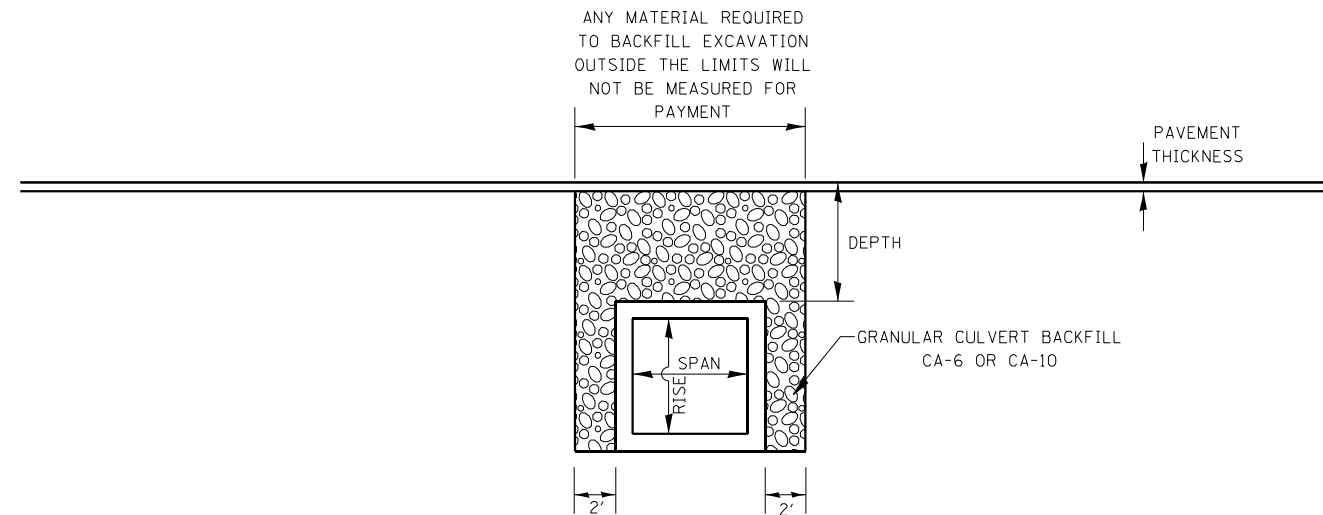
H or S	No. Expansion Bolts Req'd. Per Side			
	Extension ≤ 15ft		Extension > 15ft	
	No.	Spacing	No.	Spacing
24"	*	*	*	*
30"	2	18"	2	18"
36"	2	24"	2	24"
48"	3	18"	3	18"
60"	4	16"	3	24"
72"	5	15"	4	20"
84"	5	18"	4	24"
96"	6	17"	5	21"
108"	6	19"	5	24"
120"	7	18"	6	21"
132"	8	17"	6	24"
144"	8	19"	7	22"

Note: Number of expansion bolts in table based on non-skewed culverts.

* Use minimum 1 (one) expansion bolt in each corner.

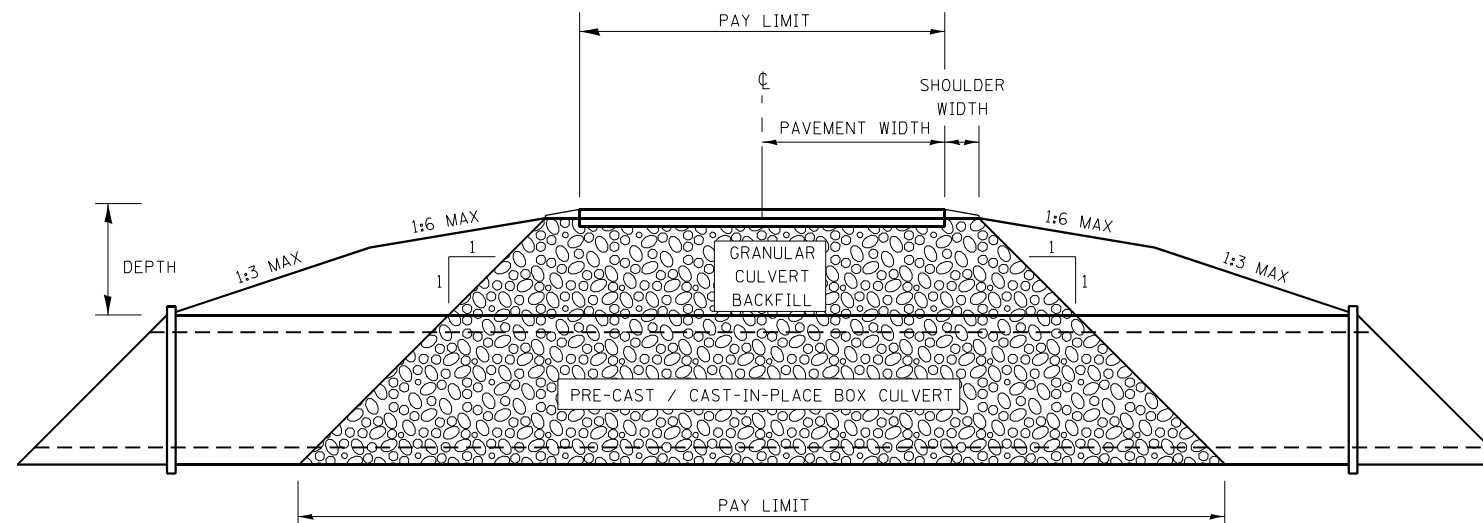
Station	Section Type	Skew	Existing Culvert Size	Proposed Culvert		Collar		Reinforcement Bars							Expansion Bolts 3/4"	Class S1 Concrete Collar yd ³		
				I.D.	O.D.	Height	Width	S bar No.	S bar Size	S bar Length	U bar No.	U bar Size	A	B			Lap	Length	lb
Lt Sta 363+41.00	A	0°	8'-4"	48"		5'-8"	9'-6"			4	#4	9'-0"	3'-10"	2	2'-6"	45	18	2.9
Total																45	18	2.9

MODEL: Default; FILE NAME: IBO_CHELLEDataDrawingsMicrostation2121718821CADData SN 0117039 (01125131)CADsheets0672984.sht; details-003.dgn



- DEPTH OF FILL \geq 2 FT & \leq 8 FT
- DEPTH OF FILL \leq SPAN OF LARGEST BOX CONFIGURATION

**PROFILE GRANULAR BACKFILL DETAIL
FOR EXISTING ALIGNMENTS & CONSTRUCTION**



NOTE:
SEE SHEET 24 FOR ADDITIONAL DETAILS.

**CROSS SECTION GRANULAR BACKFILL DETAIL
FOR EXISTING ALIGNMENTS & CONSTRUCTION**

MODEL: Default
FILE: \\na11c01\public\paw_bentley.com\PIV\DOT\Documents\DOT Office\Director_E\Project\0672984\CADD\data\CAD\Sheet\0672984-sh-004.dgn

FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL
ILLINOIS DESIGN FIRM NO. 184-003525

USER NAME = Christopher.Siefert
DESIGNED -
DRAWN - CFC
PLOT SCALE = 40,000,000 ' / in.
CHECKED - MCB
PLOT DATE = 4/7/2023

DESIGNED -
DRAWN - CFC
CHECKED - MCB
DATE -

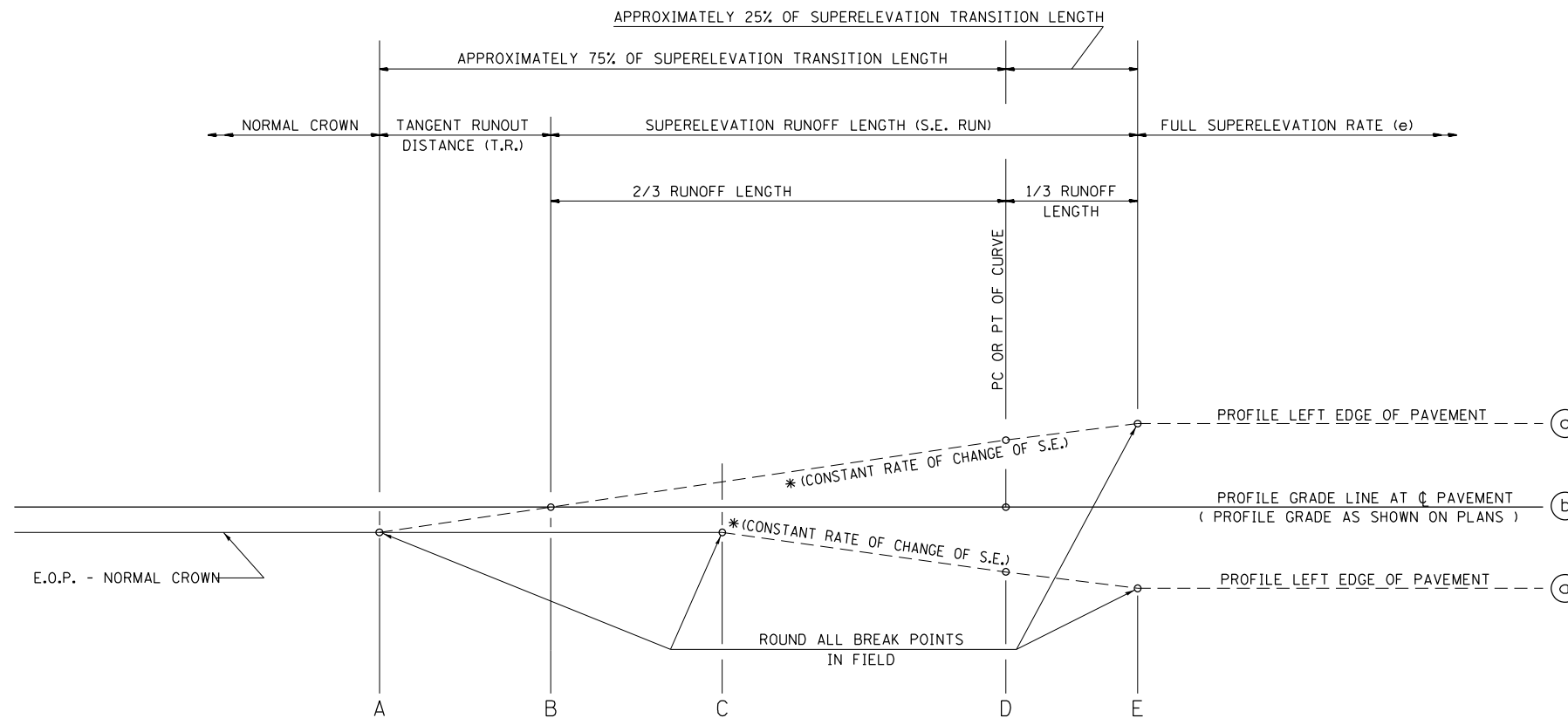
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS DETAILS
GRANULAR BACKFILL**

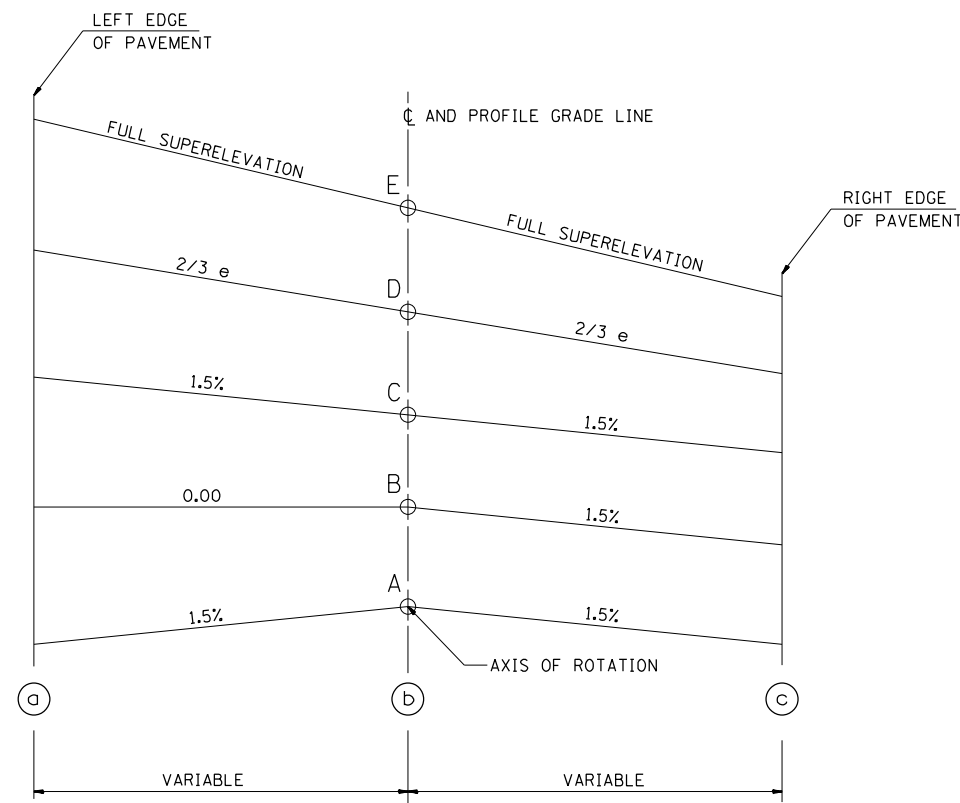
SCALE: SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	139
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				



SEE PLANS FOR CURVE DATA INFORMATION
 CURVE DATA
 P.I. STA=
 Δ =
 R=
 T=
 L=
 E=
 e= SUPERELEVATION RATE IN PERCENT
 T.R.= TANGENT RUNOUT DISTANCE
 S.E. RUN= SUPERELEVATION RUNOFF LENGTH
 P.C. STA=
 P.T. STA=

TYPICAL PROFILE - S.E. TRANSITION



TYPICAL CROSS SECTION - S.E. TRANSITION

TABLE OF SUPERELEVATION BREAK POINT LOCATIONS							
CURVE NO.	e	A	B	C	D	E	TRANSITION
240	2.2%	34+59.92	34+95.07	35+12.25	35+29.44	35+46.62	TRANS. IN
		.	.	.	.	.	TRANS. OUT
241	2.2%	51+94.77	51+59.56	51+42.44	51+25.20	51+08.07	TRANS. IN
		.	.	.	.	.	TRANS. OUT

*NOTE: SEE SUPERELEVATION DEVELOPMENT FOR REVERSE CURVES SHEET

MODEL: D:\default
 FILE: 325\18(8-2, 8-3)\16(CR)\16(CR) - Details\16(CR) - Details.dwg
 PROJECT: D:\18(8-2, 8-3)\16(CR)\16(CR) - Details\16(CR) - Details.dwg
 USER: Christopher.Siefert
 DATE: 4/7/2023

FEHR GRAHAM
 ENGINEERING & ENVIRONMENTAL
 ILLINOIS DESIGN FIRM NO. 184-003525

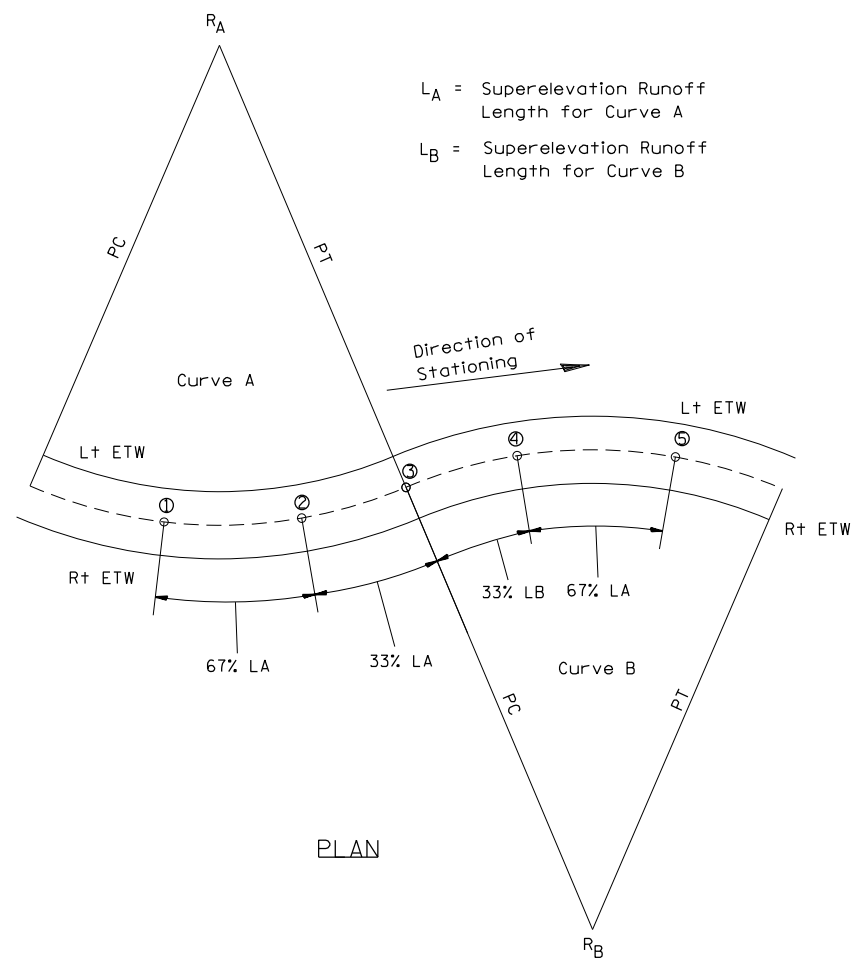
USER NAME = Christopher.Siefert	DESIGNED -	REVISED -
DRAWN - CFC	CHECKED - MCB	REVISED -
PLOT SCALE = 40,000,000 ' / in.	DATE -	REVISED -
PLOT DATE = 4/7/2023		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
 SUPER ELEVATION TRANSITIONS

SCALE: SHEET 5 OF 7 SHEETS STA. TO STA.

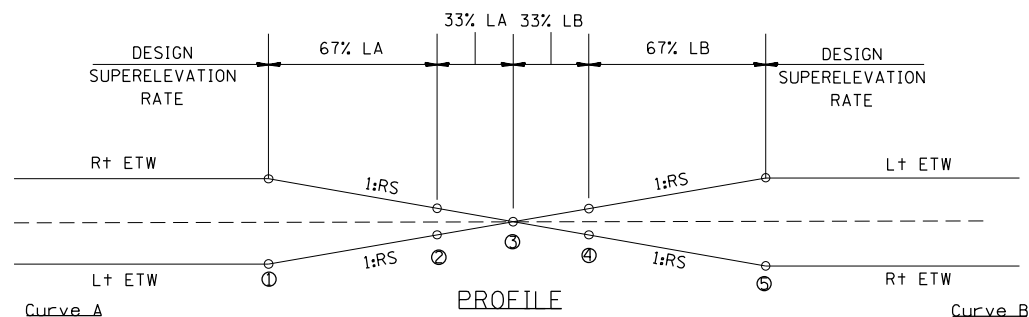
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	140
CONTRACT NO. 72984				
ILLINOIS FED. AID PROJECT				



L_A = Superelevation Runoff Length for Curve A
 L_B = Superelevation Runoff Length for Curve B

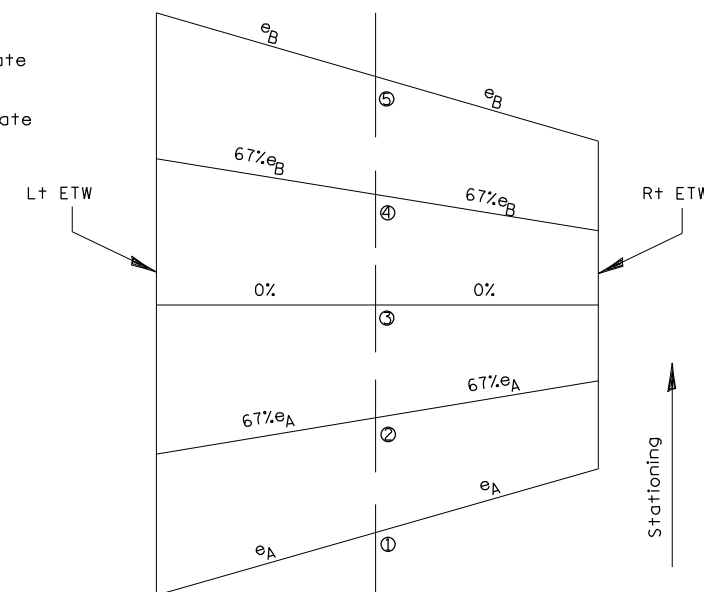
PLAN

TABLE OF SUPERELEVATION BREAK POINT LOCATIONS					
REVERSE CURVES	1	2	3	4	5
240 - 241	42+48.45	42+82.82	43+00.00	43+17.18	43+51.55



PROFILE

e_A = Design Superelevation Rate for Curve A
 e_B = Design Superelevation Rate for Curve B



CROSS SECTIONS

MODEL: Default
FILE: \\MAILSrv\pub\std\std\aw_bentley.com\PIV\DOT\Documents\DOT Office\Dir\dir: E:\Project\0672984\CADD\data\CADD\sheet\0672984-sh-6-draw.dgn

USER NAME = Christopher.Siefert	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,000000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/7/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
SUPER ELEVATION REVERSE CURVE

SCALE: SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
325	18(B-2, B-3); 16(CR)	*	142	141
CONTRACT NO. 72984				

ILLINOIS FED. AID PROJECT
* MONTGOMERY & CHRISTIAN

