

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED
HIGHWAY PLANS

FAP ROUTE 673 (IL 116)
SECTION (112)CR-2548
PROJECT NO. STP-KYYV(946)
IL 116 OVER MOREHOUSE CREEK TRIBUTARY
CULVERT REPLACEMENT
LIVINGSTON COUNTY
C-93-132-25

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(112)CR-2548	LIVINGSTON	41	1
		ILLINOIS	CONTRACT NO.	66N23

D-93-095-25



LOCATION OF SECTION INDICATED THUS: - ■ -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 20, 2026
Tisha Thompson REGIONAL ENGINEER
May 8, 2026
Scott A. Etkin ENGINEER OF DESIGN AND ENVIRONMENT
May 8, 2026
Y. Barry DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

Jason M. Roitburd
JASON M. ROITBURD, P.E.
NO. 062-065592
EXPIRES: 11/30/2027
HR GREEN, INC.
(APPLIES TO SHEETS 1-14, 16-21, 29-41)



Andrew E. Underwager
ANDREW E. UNDERWAGER, P.E., S.E.
NO. 081-006218
EXPIRES: 11/30/2026
HR GREEN, INC.
(APPLIES TO SHEETS 22-28)



INDEX OF SHEETS

1	COVER SHEET
2	LIST OF HIGHWAY STANDARDS, AND GENERAL NOTES
3 - 8	SUMMARY OF QUANTITIES
9 - 10	TYPICAL SECTIONS
11 - 13	SCHEDULE OF QUANTITIES
14	ALIGNMENT, TIES AND BENCHMARKS
15	PLAT OF HIGHWAYS
16	REMOVAL PLANS
17	PLAN AND PROFILE
18 - 20	MAINTENANCE OF TRAFFIC PLANS
21	EROSION CONTROL PLANS
22	GENERAL PLAN AND ELEVATION
23	GENERAL DATA
24	STAGE CONSTRUCTION DETAILS
25	TEMPORARY CONCRETE BARRIER
26	CULVERT DETAILS
27	BAR SPlicer ASSEMBLY
28	SOIL BORING LOGS
29 - 32	MISCELLANEOUS DETAILS
33 - 41	CROSS SECTIONS

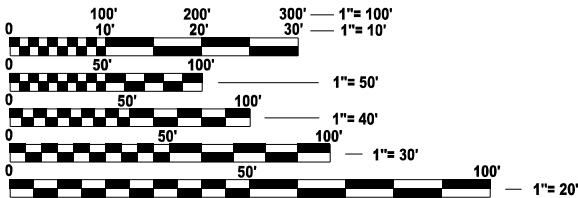
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

TRAFFIC DATA:

IL 116 ADT: 2,650 (2024)
2,783 (2026)

DESIGN DESIGNATION:

DESIGN POLICY: STRUCTURE REPLACEMENT 3R
(BDE CHAPTER 49)
FUNCTIONAL CLASSIFICATION:
MINOR ARTERIAL (RURAL)
F.A.P. ROUTE 673 (IL 116)
P.V. = 91.0% S.U.=2.6% M.U.=6.4%
POSTED & DESIGN SPEED = 55 MPH

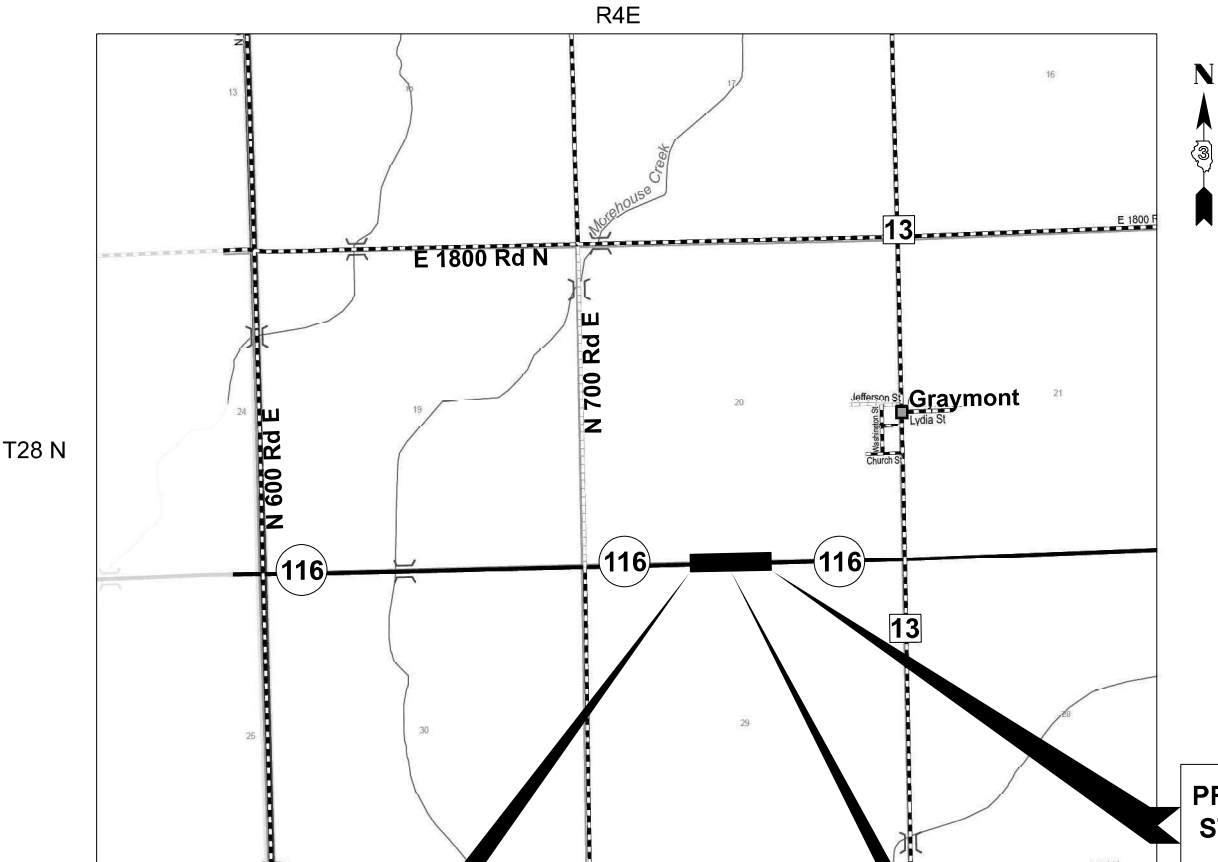


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: MOHAMED YOUSIF
PROJECT MANAGER: DAVID ALEXANDER, PE

CONTRACT NO. 66N23



PROJECT BEGINS
STA. 690+00.00
IL 116 CL

LOCATION MAP
(NOT TO SCALE)
GROSS LENGTH = 370 FT. = 0.07 MILE
NET LENGTH = 370 FT. = 0.07 MILE

EXIST. SN 053-2548
PROP .SN 053-2597

PROJECT ENDS
STA. 693+70.00
IL 116 CL

GENERAL NOTES

1. THE CONTRACTOR SHALL NOT SCALE FROM THE PLANS FOR CONSTRUCTION PURPOSES. SCALES ARE SHOWN FOR INFORMATION ONLY.
2. THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.
3. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
4. THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
5. THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF VARIOUS EARTHWORK ITEMS.
6. ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.
7. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
8. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF HIGHWAY STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
9. ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.
10. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
AGGREGATE DITCH CHECKS	5	TONS AGGREGATE

11. MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

AMEREN
ENBRIDGE
FRONTIER

12. MEASUREMENT AND PAYMENT OF ALL EARTHWORK PAY ITEMS SHALL ONLY OCCUR ONCE. ANY AND ALL NECESSARY STOCKPILING AND EXTRA HANDLING OF EARTHWORK FOR LATER USE WILL NOT BE PAID FOR SEPARATELY BUT, SHALL BE FACTORED INTO THE CONTRACTOR'S BID UNIT PRICES FOR EARTH EXCAVATION AND REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. THIS INCLUDES INSTANCES OF SATURATED MATERIALS NEEDING TO BE DRIED PRIOR TO INCORPORATION OR DISPOSAL OFF-SITE.
13. ALL UNDERCUTS SHALL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY A QUALIFIED SOILS INSPECTOR IN ACCORDANCE WITH IDOT MANUAL OF TEST PROCEDURES FOR MATERIALS AND THE IDOT SOILS FIELD TESTING AND INSPECTION MANUAL. FINAL QUANTITY OF UNDERCUTS SHALL BE AS DETERMINED AND MEASURED IN THE FIELD.
14. EARTHWORK QUANTITIES AND EARTHWORK BALANCE DOES NOT INCLUDE USE OF TRENCH SPOILS IN EMBANKMENT. REMOVAL AND DISPOSAL OF TRENCH SPOILS WILL NOT BE PAID FOR SEPARATELY BUT, SHALL BE INCLUDED IN THE BID UNIT PRICE FOR TRENCH BACKFILL IN ACCORDANCE WITH SECTION 208 OF THE STANDARD SPECIFICATIONS. SUITABLE TRENCH SPOILS MAY BE UTILIZED AS EMBANKMENT IF APPROVED BY THE ENGINEER. EARTHWORK QUANTITIES HAVE NOT BEEN ADJUSTED TO ACCOUNT FOR THE USE OF EXCESS TRENCH SPOILS IN EMBANKMENT.
15. IF THE CONTRACTOR DETERMINES A LINE OUTAGE WILL BE REQUIRED TO SAFELY WORK WITHIN THE VICINITY OF EXISTING OVERHEAD FACILITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADVANCED NOTIFICATION AND COORDINATION WITH AMEREN ILLINOIS. AT A MINIMUM THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE NATURE OF THE WORK THAT WILL BE PERFORMED, TYPE OF CONSTRUCTION EQUIPMENT, AND AN EXPLANATION OF ALTERNATIVES (IF ANY) THAT MAY BE AVAILABLE WITH AN EXPLANATION OF WHY THEY WILL NOT BE PRACTICAL.
16. ANY AND ALL OPEN TRENCHING WITHIN THREE (3) FEET OF A UTILITY POLE MAY REQUIRE BRACING BY THE UTILITY COMPANY. BRACING MAY REQUIRE UP TO SIX (6) WEEKS NOTICE.

17. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN IN THE PLANS IS FOR THE CONTRACTOR'S INFORMATION ONLY AND IS NOT TO BE RELIED UPON FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUB-CONTRACTOR TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ITS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS.
18. WHEN THE PLANS OR SPECIAL PROVISIONS INCLUDE INFORMATION PERTAINING TO THE LOCATION OF EXISTING UTILITY FACILITIES, SUCH INFORMATION ONLY REPRESENTS THE APPROXIMATE LOCATIONS BASED UPON PROVIDED ATLAS INFORMATION RECEIVED FROM UTILITY OWNERS. THE CONTRACTOR SHALL NOT ASSUME THAT THE LOCATIONS ARE EXACT, AND SHALL FIELD LOCATE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
19. THE CONTACT OR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY FACILITIES FROM CONSTRUCTION ACTIVITIES EVEN IN THE EVENT THEY ARE NOT SHOWN IN THE PLANS. THE CONTACT OR SHALL CONTACT "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 811 OR 1-800-892-0123 FOR FIELD LOCATION OF UTILITIES PRIOR TO ANY EXCAVATIONS. ANY UTILITY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED.THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE NATURE AND STATUS OF ALL UTILITY RELOCATION WORK PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT INTERFERE WITH UTILITY FACILITIES AND RELOCATION WORK. THE CONTRACTOR'S SCHEDULE SHALL REFLECT CONSTRUCTION SEQUENCING WHICH COORDINATES WITH ALL UTILITY RELOCATION WORK. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST THE SCHEDULE OF WORK TO COORDINATE WITH THE RELOCATION OF CONFLICTING UTILITY COMPANIES.
20. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES THROUGHOUT THE DURATION OF THE CONTRACT. METHODS UTILIZED BY THE CONTRACTOR SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

ANY FARM DRAIN, FIELD TILE SYSTEM, OR OTHER TILE FACILITY ENCOUNTERED DURING THE

PROPOSED WORK SHALL BE LOCATED, STAKED, AND REPORTED TO THE ENGINEER. DRAINAGE LINES

WHICH ARE CUT OR DAMAGED BY GRADING, TRENCHING, EXCAVATING, OR OTHER CONSTRUCTION

ACTIVITIES SHALL BE REPAIRED SO AS TO MAINTAIN ITS ORIGINAL ALIGNMENT. IF THIS CANNOT BE

ACCOMPLISHED, THE TILE SHALL BE REPAIRED AND CONNECTED TO THE PROPOSED STORM SEWER

OR DITCH IN SUCH A MANNER AS TO RENDER THE LINES USABLE FOR THE PURPOSES INTENDED.

WORK SHALL BE DONE IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS.

LIST OF HIGHWAY STANDARDS

000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATE FOR BRIDGES
630001-13	STEEL PLATE BEAM GUARDRAIL
630106-02	LONG-SPAN GUARDRAIL OVER CULVERT
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701321-19	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701901-11	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA BINDER	HMA SURFACE	HMA BASE COURSE	HMA SHOULDERS 8" BOTTOM LIFT(S)	HMA SHOULDERS 8" TOP LIFT	TEMPORARY PAVEMENT 8" HMA BINDER
BINDER GRADE (PG):	PG 64-22	PG 64-22	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	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION:	IL-19.0	IL-9.5	IL-19.0	IL-19.0	IL-9.5	IL-9.5
(MIXTURE GRADATION)						
FRICTION AGGREGATE:		MIXTURE "C"			MIXTURE "C"	MIXTURE "C"
MIXTURE WEIGHT:	112 LB / SQ YD / IN	112 LB / SQ YD / IN	112 LB / SQ YD / IN	112 LB / SQ YD / IN	112 LB / SQ YD / IN	112 LB / SQ YD / IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE:	N/A	N/A	N/A	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES / NUCLEAR	CORES / NUCLEAR	CORES / NUCLEAR	CORES / NUCLEAR	CORES / NUCLEAR	CORES / NUCLEAR
MATERIAL TRANSFER DEVICE (REQUIRED):	NO	NO	NO	NO	NO	NO

				CONSTR. CODE
				80% FED 20% STATE
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				0004
				053-2548
20200100	EARTH EXCAVATION	CU YD	193	193
20400800	FURNISHED EXCAVATION	CU YD	125	125
20700220	POROUS GRANULAR EMBANKMENT	CU YD	13	13
25000210	SEEDING, CLASS 2A	ACRE	0.5	0.5
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	33	33
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	33	33
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	33	33
25100630	EROSION CONTROL BLANKET	SQ YD	1740	1740
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	108	108
28000305	TEMPORARY DITCH CHECKS	FOOT	72	72
28000400	PERIMETER EROSION BARRIER	FOOT	728	728
28000500	INLET AND PIPE PROTECTION	EACH	2	2
28100107	STONE RIPRAP, CLASS A4	SQ YD	26	26
28200200	FILTER FABRIC	SQ YD	26	26

* INDICATES SPECIALTY ITEM

REV. 4/13/26

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED
				20% STATE
				BRIDGE
				0004
				053-2548
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	329	329
35501307	HOT-MIX ASPHALT BASE COURSE, 5 3/4"	SQ YD	96	96
40200900	AGGREGATE SURFACE COURSE, TYPE B	CU YD	42	42
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	838	838
40600370	LONGITUDINAL JOINT SEALANT	FOOT	370	370
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	214	214
40600990	TEMPORARY RAMP	SQ YD	54	54
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	125	125
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	101	101
44000100	PAVEMENT REMOVAL	SQ YD	326	326
44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	909	909
44004250	PAVED SHOULDER REMOVAL	SQ YD	305	305
48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	70	70
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	575	575

* INDICATES SPECIALTY ITEM

				CONSTR. CODE
				80% FED 20% STATE
				BRIDGE
				0004
				053-2548
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50800105	REINFORCEMENT BARS	POUND	7030	7030
50800515	BAR SPLICERS	EACH	44	44
51500100	NAME PLATES	EACH	1	1
52200020	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	59	59
54003000	CONCRETE BOX CULVERTS	CU YD	38.7	38.7
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	65	65
60260100	INLETS TO BE ADJUSTED	EACH	2	2
61100605	MISCELLANEOUS CONCRETE	CU YD	10	10
61101013	STORM SEWERS PROTECTED, CLASS A, 12"	FOOT	50	50
61101017	STORM SEWERS PROTECTED, CLASS A, 15"	FOOT	50	50
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	2	2
61140200	STORM SEWERS (SPECIAL), 12"	FOOT	50	50
61140400	STORM SEWERS (SPECIAL), 15"	FOOT	50	50

* INDICATES SPECIALTY ITEM

				CONSTR. CODE	
				80% FED	20% STATE
				BRIDGE	
				0004	
				053-2548	
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	187.5	187.5	
* 63000350	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	FOOT	100	100	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	334	334	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	12	12	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	189	189	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	63	63	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	250	250	

* INDICATES SPECIALTY ITEM

REV. 5/5/26REV. 4/13/26

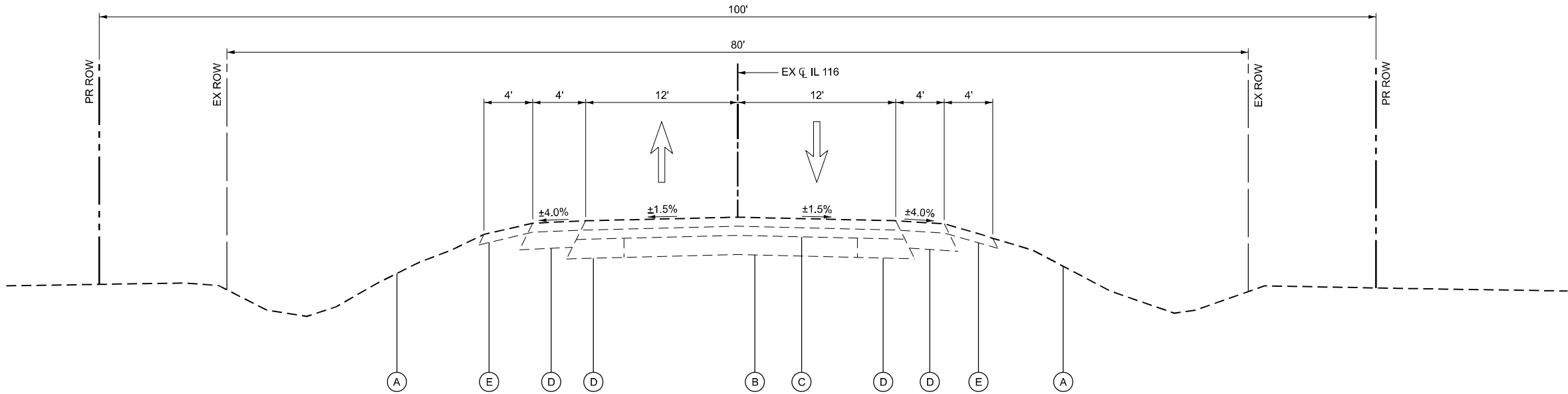
				CONSTR. CODE	
				80% FED	20% STATE
				BRIDGE	
				0004	
				053-2548	
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY		
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	216	216	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	250	250	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
* 72400735	REMOVE AND RELOCATE SIGN PANEL - TYPE 1	SQ FT	9	9	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
* 73000100	WOOD SIGN SUPPORT	FOOT	17	17	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2504	2504	
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	313	313	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	8	8	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	8	8	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	8	8	
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	392	392	

* INDICATES SPECIALTY ITEM

				CONSTR. CODE
				80% FED 20% STATE
CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				0004
				053-2548
X2130010	EXPLORATION TRENCH (SPECIAL)	FOOT	200	200
X4024000	TEMPORARY ACCESS (FIELD ENTRANCE)	EACH	1	1
X4062952	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SQ YD	192	192
X5810103	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	65	65
X6350204	LINEAR DELINEATOR PANELS, 4 INCH	EACH	4	4
X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	42	42
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
* Z0054400	ROCK FILL	CU YD	23	23
Z0062456	TEMPORARY PAVEMENT	SQ YD	229	229

* INDICATES SPECIALTY ITEM

REV. 5/5/26REV. 4/13/26

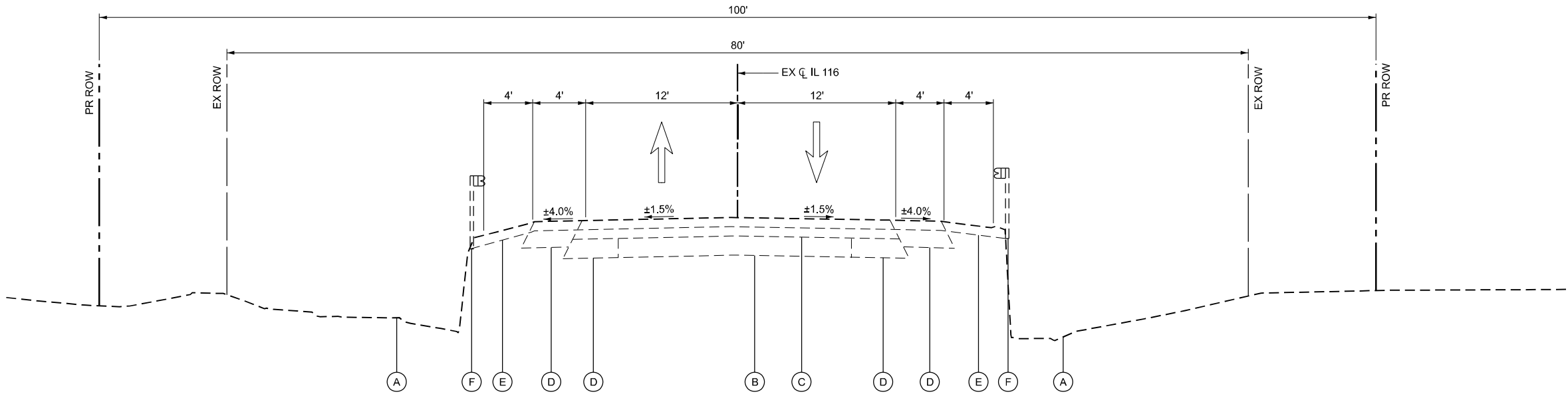


EXISTING TYPICAL SECTION

STA 690+00.00 TO STA 693+70.00

EXISTING LEGEND

- (A) EXISTING GROUND
- (B) EXISTING 9" PCC PAVEMENT BASE COURSE
- (C) EXISTING 8-5/8" HOT-MIX ASHALT PAVEMENT
- (D) EXISTING 8" HOT-MIX ASHALT SHOULDER
- (E) EXISTING AGGREGATE SHOULDER
- (F) EXISTING GUARDRAIL



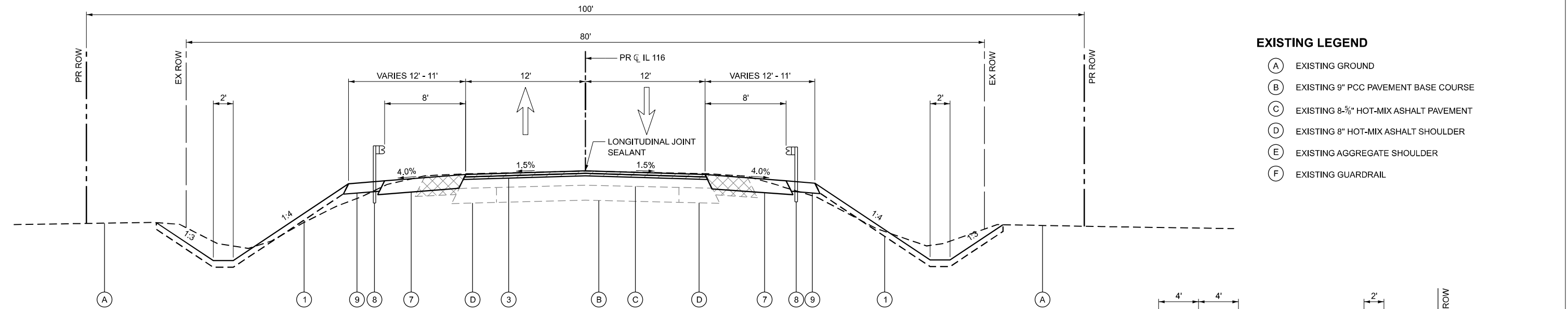
EXISTING TYPICAL SECTION

STA 691+80.00

USER NAME	= amiller	DESIGNED	-	AJM	REVISED	-	
		DRAWN	-	AJM	REVISED	-	
		CHECKED	-	JMR	REVISED	-	
PLOT DATE	= 3/3/2026	DATE	-	11/14/2025	REVISED	-	

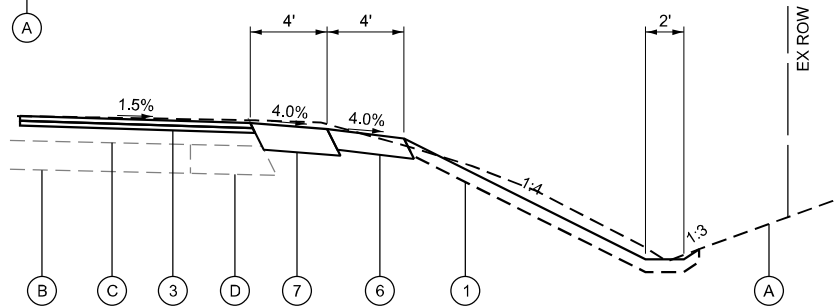
EXISTING TYPICAL SECTIONS IL ROUTE 116			
SCALE: N.T.S.	SHEET 1 OF 2 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(112)CR-2548	LIVINGSTON	41	9
CONTRACT NO. 66N23				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION

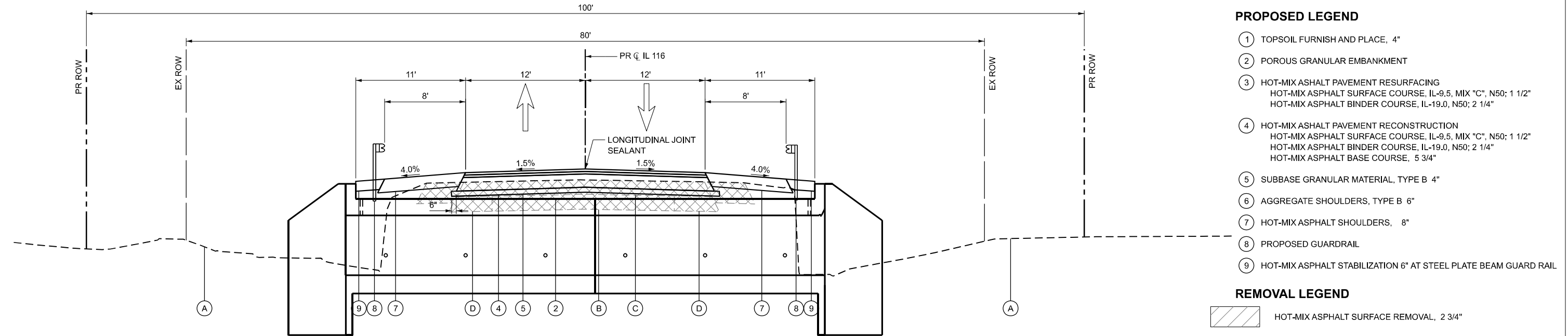
STA 690+00.00 TO STA 691+62.00
STA 691+98.00 TO STA 693+70.00



SHOULDER TREATMENT WHERE GUARDRAIL IS NOT PRESENT

RIGHT SIDE: STA 690+00.00 TO STA 690+09.00
STA 693+00.00 TO STA 693+70.00

LEFT SIDE: STA 690+00.00 TO STA 690+60.00
STA 693+38.00 TO STA 693+70.00



PROPOSED TYPICAL SECTION

STA 691+62.00 TO STA 691+98.00

EXISTING LEGEND

- (A) EXISTING GROUND
- (B) EXISTING 9" PCC PAVEMENT BASE COURSE
- (C) EXISTING 8-5/8" HOT-MIX ASHALT PAVEMENT
- (D) EXISTING 8" HOT-MIX ASHALT SHOULDER
- (E) EXISTING AGGREGATE SHOULDER
- (F) EXISTING GUARDRAIL

PROPOSED LEGEND

- (1) TOPSOIL FURNISH AND PLACE, 4"
- (2) POROUS GRANULAR EMBANKMENT
- (3) HOT-MIX ASHALT PAVEMENT RESURFACING
HOT-MIX ASHALT SURFACE COURSE, IL-9.5, MIX "C", N50; 1 1/2"
HOT-MIX ASHALT BINDER COURSE, IL-19.0, N50; 2 1/4"
- (4) HOT-MIX ASHALT PAVEMENT RECONSTRUCTION
HOT-MIX ASHALT SURFACE COURSE, IL-9.5, MIX "C", N50; 1 1/2"
HOT-MIX ASHALT BINDER COURSE, IL-19.0, N50; 2 1/4"
HOT-MIX ASHALT BASE COURSE, 5 3/4"
- (5) SUBBASE GRANULAR MATERIAL, TYPE B 4"
- (6) AGGREGATE SHOULDERS, TYPE B 6"
- (7) HOT-MIX ASHALT SHOULDERS, 8"
- (8) PROPOSED GUARDRAIL
- (9) HOT-MIX ASHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL

REMOVAL LEGEND

- [Hatched Pattern] HOT-MIX ASHALT SURFACE REMOVAL, 2 3/4"
- [Cross-hatched Pattern] PAVEMENT REMOVAL / PAVED SHOULDER REMOVAL

SEEDING, CLASS 2A				
ACRE	LOCATION			
0.17	690+00.0	TO	693+36.0	LT
0.18	690+00.0	TO	693+70.0	RT
0.01	693+52.0	TO	693+70.0	LT
0.50	TOTAL			

NITROGEN FERTILIZER NUTRIENT				
POUND	LOCATION			
15.20	690+00.0	TO	693+36.0	LT
16.57	690+00.0	TO	693+70.0	RT
0.58	693+52.0	TO	693+70.0	LT
33	TOTAL			

PHOSPHORUS FERTILIZER NUTRIENT				
POUND	LOCATION			
15.20	690+00.0	TO	693+36.0	LT
16.57	690+00.0	TO	693+70.0	RT
0.58	693+52.0	TO	693+70.0	LT
33	TOTAL			

POTASSIUM FERTILIZER NUTRIENT				
POUND	LOCATION			
15.20	690+00.0	TO	693+36.0	LT
16.57	690+00.0	TO	693+70.0	RT
0.58	693+52.0	TO	693+70.0	LT
33	TOTAL			

EROSION CONTROL BLANKET				
SQ YD	LOCATION			
817.39	690+00.0	TO	693+36.0	LT
891.04	690+00.0	TO	693+70.0	RT
31.28	693+52.0	TO	693+70.0	LT
1740	TOTAL			

TEMPORARY EROSION CONTROL SEEDING				
POUND	LOCATION			
50.66	690+00.0	TO	693+36.0	LT
55.23	690+00.0	TO	693+70.0	RT
1.94	693+52.0	TO	693+70.0	LT
108	TOTAL			

TEMPORARY DITCH CHECKS		
FOOT	LOCATION	OFFSET
12	691+00.0	36.5' LT
12	691+00.0	35.8' RT
12	692+00.0	37.2' LT
12	692+00.0	36.9' RT
12	693+00.0	33.9' LT
12	693+00.0	30.3' RT
72	TOTAL	

PERIMETER EROSION BARRIER				
FOOT	LOCATION			
338.00	690+00.0	TO	693+36.0	LT
372.00	690+00.0	TO	693+70.0	RT
18.00	693+52.0	TO	693+70.0	LT
728	TOTAL			

INLET AND PIPE PROTECTION		
EACH	LOCATION	OFFSET
1	691+80.0	29.0' LT
1	693+55.0	32.7' RT
2	TOTAL	

STONE RIPRAP, CLASS A4				
SQ YD	LOCATION			
12.89	691+71.5	TO	691+88.5	LT
12.89	691+71.5	TO	691+88.5	RT
26	TOTAL			

FILTER FABRIC				
SQ YD	LOCATION			
12.89	691+71.5	TO	691+88.5	LT
12.89	691+71.5	TO	691+88.5	RT
26	TOTAL			

INLETS TO BE ADJUSTED		
EACH	LOCATION	OFFSET
1	691+55.7	42.0' RT
1	691+58.3	34.4' RT
2	TOTAL	

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS				
FOOT	LOCATION			
75.00	690+85.75	TO	691+60.75	RT
25.00	691+36.25	TO	691+61.25	LT
25.00	691+98.25	TO	692+23.25	RT
62.50	691+98.75	TO	692+61.25	LT
187.5	TOTAL			

LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN				
FOOT	LOCATION			
62.50	691+60.75	TO	692+23.25	RT
37.50	691+61.25	TO	691+98.75	LT
100	TOTAL			

TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT				
EACH	LOCATION			
1	690+35.75	TO	690+85.75	RT
1	690+86.25	TO	691+36.25	LT
1	691+98.75	TO	692+61.25	LT
1	692+23.25	TO	692+73.25	RT
4	TOTAL			

GUARDRAIL REMOVAL				
FOOT	LOCATION			
179.0	690+78.10	TO	692+56.30	RT
155.0	691+03.30	TO	692+56.20	LT
334	TOTAL			

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CU YD)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25%) (CU YD)	EMBANKMENT (CU YD)	EARTH BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	FURNISHED EXCAVATION (CU YD)
IL ROUTE 116	193	145	270	-125	125
TOTAL	193	145	270	-125	125

NOTES:
1. ALL MATERIAL TO BE UTILIZED AS EMBANKMENT ON THIS PROJECT SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS INCLUDED IN THIS CONTRACT AT THE TIME OF LETTING.

SHRINKAGE FACTORS
TOPSOIL & EARTH EXCAVATION25%

20200100	EARTH EXCAVATION	193	CU YD
20400800	FURNISHED EXCAVATION	125	CU YD

PAVEMENT SCHEDULE

LOCATION	SUBBASE GRANULAR MATERIAL, TYPE B 4"		HOT-MIX ASPHALT BASE COURSE, 5 3/4"		AGGREGATE SURFACE COURSE, TYPE B		BITUMINOUS MATERIALS (TACK COAT)		HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT		TEMPORARY RAMP		HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50		HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50		PAVEMENT REMOVAL		PAVED SHOULDER REMOVAL		AGGREGATE SHOULDERS, TYPE B 6"		HOT-MIX ASPHALT SHOULDERS, 8"		TEMPORARY ACCESS (FIELD ENTRANCE)	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL		TEMPORARY PAVEMENT	
	SQ YD		SQ YD		CU YD		POUND		SQ YD		SQ YD		TON		TON		SQ YD		SQ YD		SQ YD		SQ YD		EACH	SQ YD		SQ YD	
	LT	RT	LT	RT	LT	RT	LT	RT	LT	RT			LT	RT	LT	RT	LT	RT	LT	RT	LT	RT	LT	RT	LT			LT	RT
IL ROUTE 116																													
STA 690+00.00 TO STA 693+70.00	50.0	50.0	48.0	48.0			417.8	420.0	106.7	106.7	26.7	26.7	62.2	62.2	50.4	50.4	48.5	48.4	158.3	146.1	30.7	38.7	284.4	290.2		93.4	97.8		
FIELD ENTRANCE STA 693+44.00					42.0																				1				
TEMPORARY WIDENING	228.6																228.6											228.6	
TOTALS	329		96		42		838		214		54		125		101		326		305		70		575		1	192		229	

MAINTENANCE OF TRAFFIC SCHEDULE

LOCATION	TEMPORARY BRIDGE TRAFFIC SIGNALS (EACH)	TEMPORARY RUMBLE STRIPS (EACH)		SHORT TERM PAVEMENT MARKING LANE LINE YELLOW (FOOT)	SHORT TERM PAVEMENT MARKING REMOVAL (SQ FT)	TEMPORARY CONCRETE BARRIER (FOOT)		RELOCATE TEMPORARY CONCRETE BARRIER (FOOT)		IMPACT ATTENUATORS TEMPORARY NON-REDIRECTIVE TEST LEVEL 3 (EACH)		IMPACT ATTENUATORS RELOCATE NON-REDIRECTIVE TEST LEVEL 3 (EACH)	
		LEFT	RIGHT	CL	CL	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
STAGE IA													
STAGE IB	1	3	3			86.0	168.0				2.0		
STAGE II		3	3					168.0	86.0			2.0	
STAGE III				189.0	63.0								
TOTALS:	1	12		189	63	254		254		2		2	

SIGN SCHEDULE

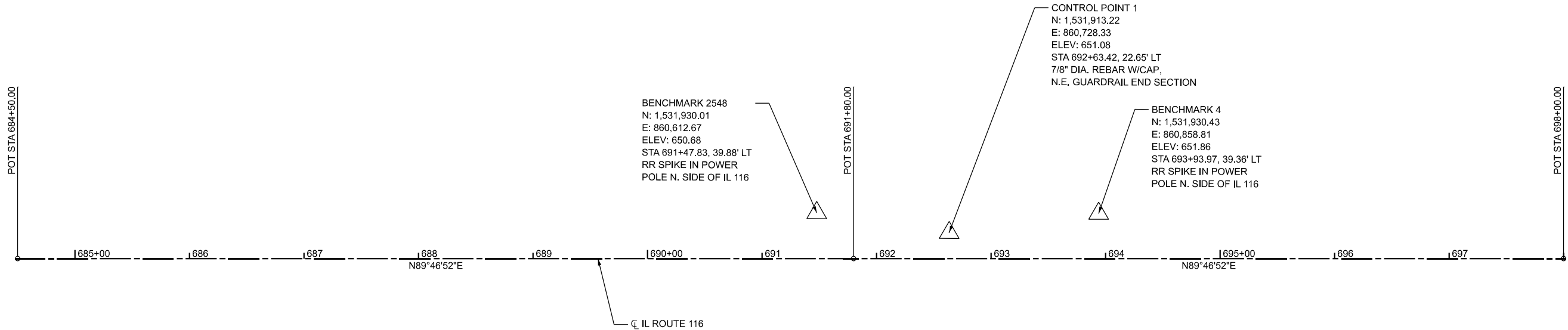
LOCATION	STANDARD NUMBER (NEW) DESCRIPTION (EXISTING)	REMOVE AND RELOCATE SIGN PANEL TYPE 1 (SQ FT)	WOOD SIGN SUPPORT (FOOT)	SIGN PLACEMENT	
				HEIGHT ABOVE EDGE OF PAVEMENT (FOOT)	CENTERLINE / PGL OFFSET (FOOT)
IL ROUTE 116					
* STA 692+68	W2-1	6.25	17.0	7.0	29.5
* STA 692+68	Graymont Rd	2.50			
TOTALS:		9	17		

* PROPOSED SIGNS SHARES SAME POST. SIGNS MOUNTED TOP TO BOTTOM

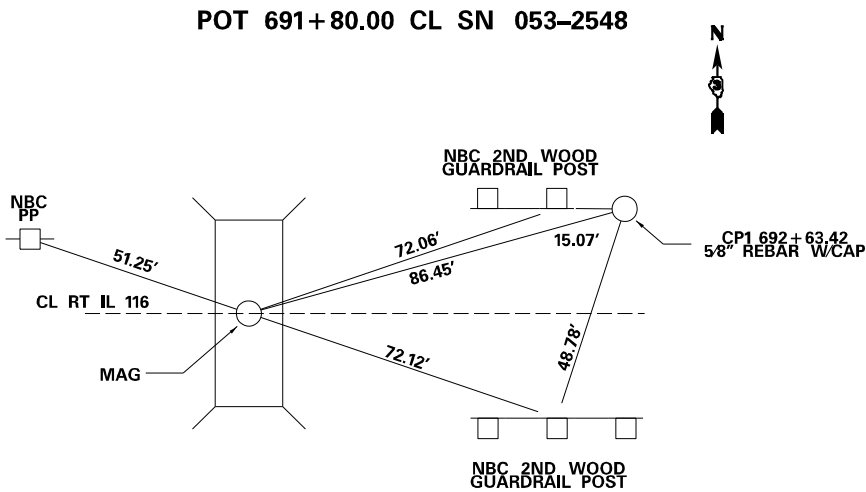
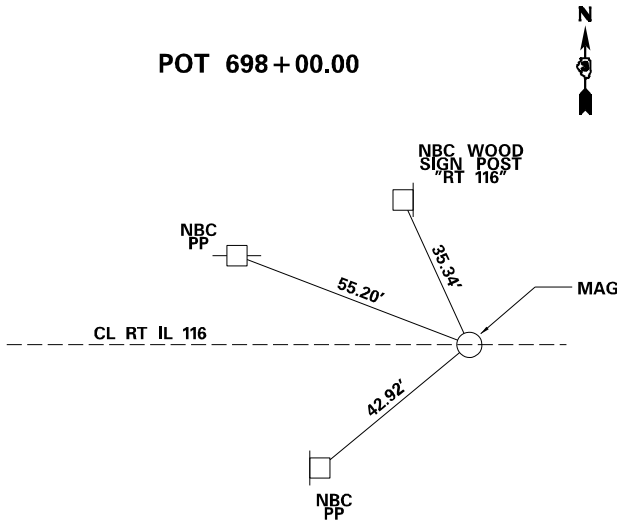
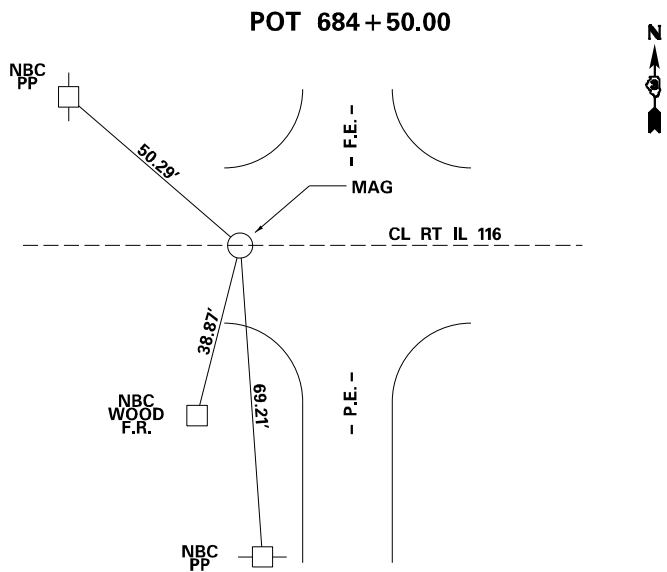
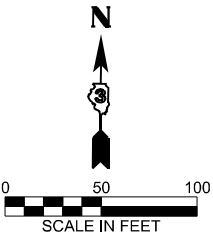
PAVEMENT MARKING SCHEDULE

LOCATION	PAINT PAVEMENT MARKING			RAISED REFLECTIVE PAVEMENT MARKER (EACH)	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL (EACH)	PAVEMENT MARKING REMOVAL GRINDING (SQ FT)	
	LINE - 4"		LINE - 6"				
	LANE LINE SOLID WHITE (FOOT)		LANE LINE 10' DASH 30' SKIP YELLOW (FOOT)				
	LEFT	RIGHT	CL				
	CL	CL	CL				
IL ROUTE 116							
STA 688+67.00 TO STA 694+93.00	1252.0	1252.0	313.0	8.0	8.0	196.0	196.0
TOTALS:	2,504		313	8	8	392	

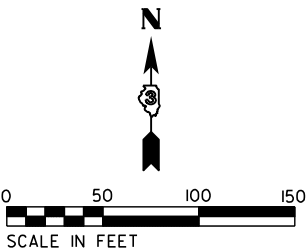
NOTE: QUANTITY FOR TWO (2) APPLICATIONS OF PAINT PAVEMENT MARKINGS HAS BEEN INCLUDED AND IS REQUIRED TO AVOID SHORT TERM FADING.



COORDINATE DATA			
STATION	NORTHING	EASTING	REMARKS
684+50.00	1,531,887.46	859,914.99	POT IL RTE 116
691+80.00	1,531,890.25	860,644.99	POT IL RTE 116
689+00.00	1,531,892.62	861,264.99	POT IL RTE 116



SOUTHEAST 1/4 OF SEC. 20,
T. 28 N., R. 4 E., 3RD P.M.



NOTE: GRID BEARINGS AND DISTANCES SHOWN
HEREON ARE REFERENCED TO THE ILLINOIS
STATE PLANE COORDINATE SYSTEM, (GRID) EAST
ZONE, (NAD-83, 2011 ADJ.).

ALL AREAS ARE BASED ON GROUND
MEASUREMENTS

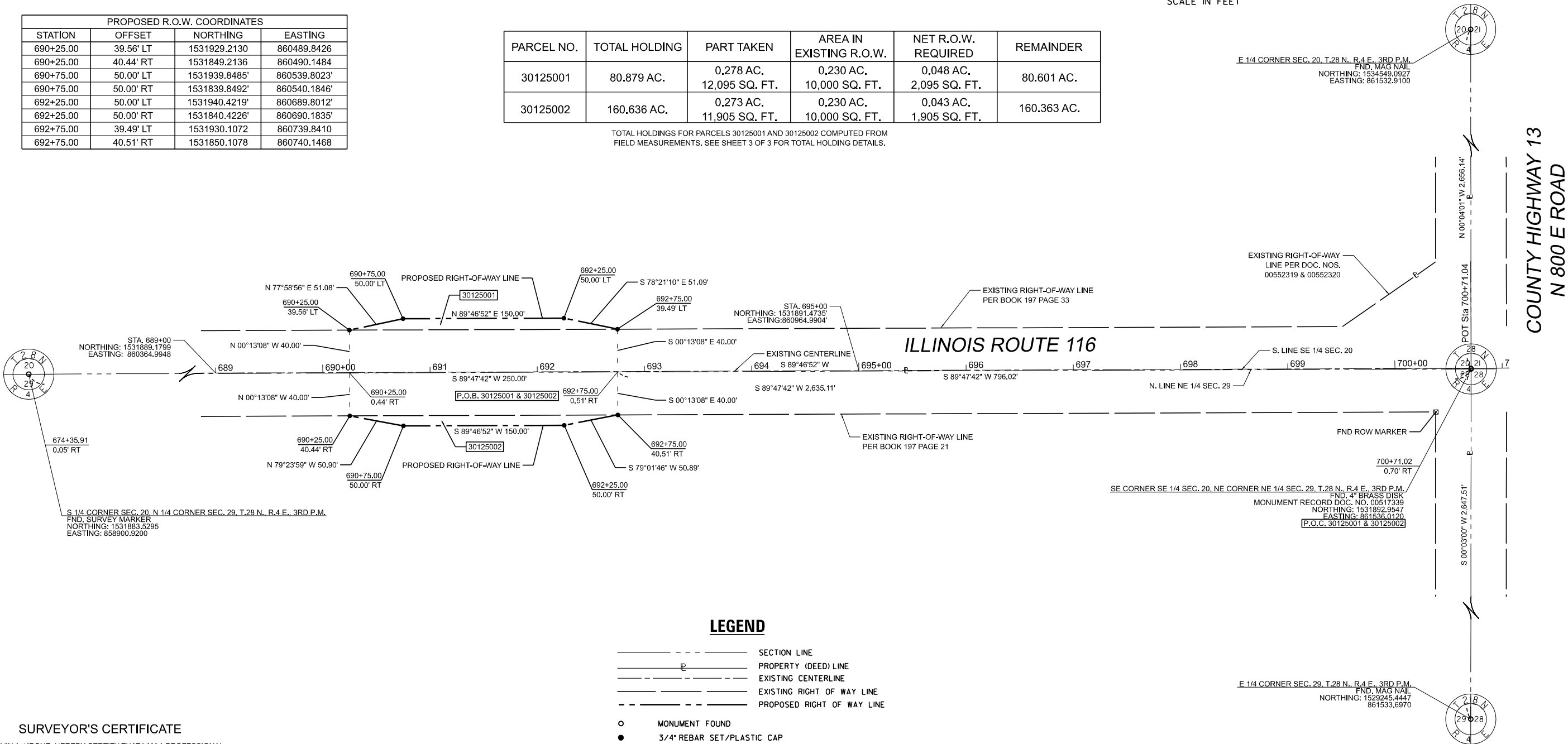
COMBINED FACTOR = 0.99996080

TOTAL HOLDING AREA SURVEYED

PROPOSED R.O.W. COORDINATES			
STATION	OFFSET	NORTHING	EASTING
690+25.00	39.56' LT	1531929.2130	860489.8426
690+25.00	40.44' RT	1531849.2136	860490.1484
690+75.00	50.00' LT	1531939.8485'	860539.8023'
690+75.00	50.00' RT	1531839.8492'	860540.1846'
692+25.00	50.00' LT	1531940.4219'	860689.8012'
692+25.00	50.00' RT	1531840.4226'	860690.1835'
692+75.00	39.49' LT	1531930.1072	860739.8410
692+75.00	40.51' RT	1531850.1078	860740.1468

PARCEL NO.	TOTAL HOLDING	PART TAKEN	AREA IN EXISTING R.O.W.	NET R.O.W. REQUIRED	REMAINDER
30125001	80.879 AC.	0.278 AC. 12,095 SQ. FT.	0.230 AC. 10,000 SQ. FT.	0.048 AC. 2,095 SQ. FT.	80.601 AC.
30125002	160.636 AC.	0.273 AC. 11,905 SQ. FT.	0.230 AC. 10,000 SQ. FT.	0.043 AC. 1,905 SQ. FT.	160.363 AC.

TOTAL HOLDINGS FOR PARCELS 30125001 AND 30125002 COMPUTED FROM
FIELD MEASUREMENTS. SEE SHEET 3 OF 3 FOR TOTAL HOLDING DETAILS.



LEGEND

- SECTION LINE
- PROPERTY (DEED) LINE
- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- MONUMENT FOUND
- 3/4" REBAR SET/PLASTIC CAP

SURVEYOR'S CERTIFICATE

I, KEVIN A. KROHE, HEREBY CERTIFY THAT I AM A PROFESSIONAL
LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF
ILLINOIS ROUTE 116 WAS MADE BY ME OR UNDER MY DIRECTION,
AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE
BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND
MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION
SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO
BE RETRACED. THIS PROFESSIONAL SERVICE CONFORMS TO THE
CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

BY _____ DATED _____
KEVIN A. KROHE, ILLINOIS PROFESSIONAL
LAND SURVEYOR NO. 35-3761 (EXPIRES NOV. 2026)



NORTHEAST 1/4 OF SEC. 29,
T. 28 N., R. 4 E., 3RD P.M.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAT OF HIGHWAYS

SCALE: 1"=50' SHEET 2 OF 3 SHEETS STA. 690+25 TO STA. 692+75

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(112)CR-2548	LIVINGSTON	41	15
IL 116		CONTRACT NO. 66N23		
ILLINOIS		JOB NO. R-93-001-25		

ARTISAN

CONSULTING ENGINEERS, LLC
1245 Sunnyside Road
Chapin, IL 62628
(815) 519-9645

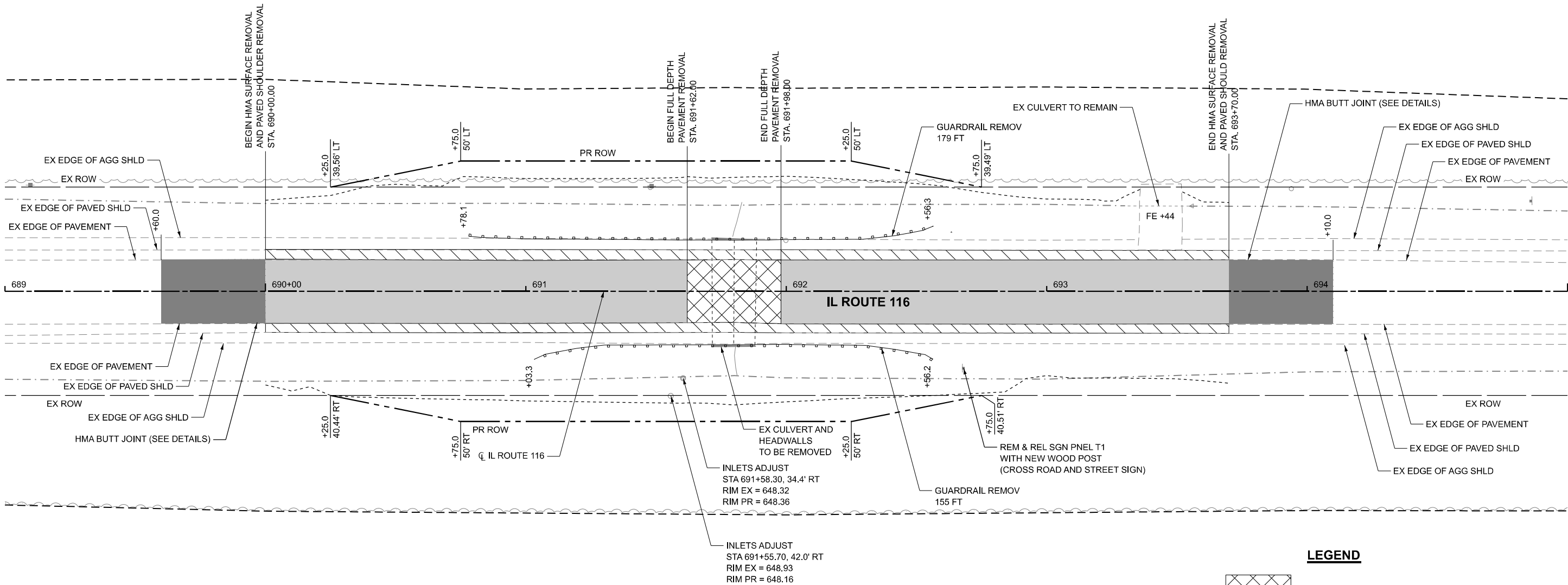
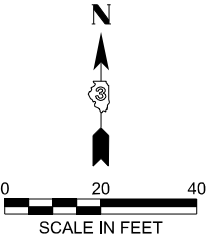
www.ArtisanCivil.com

Design Firm License:
184-005655 (Illinois)

24071

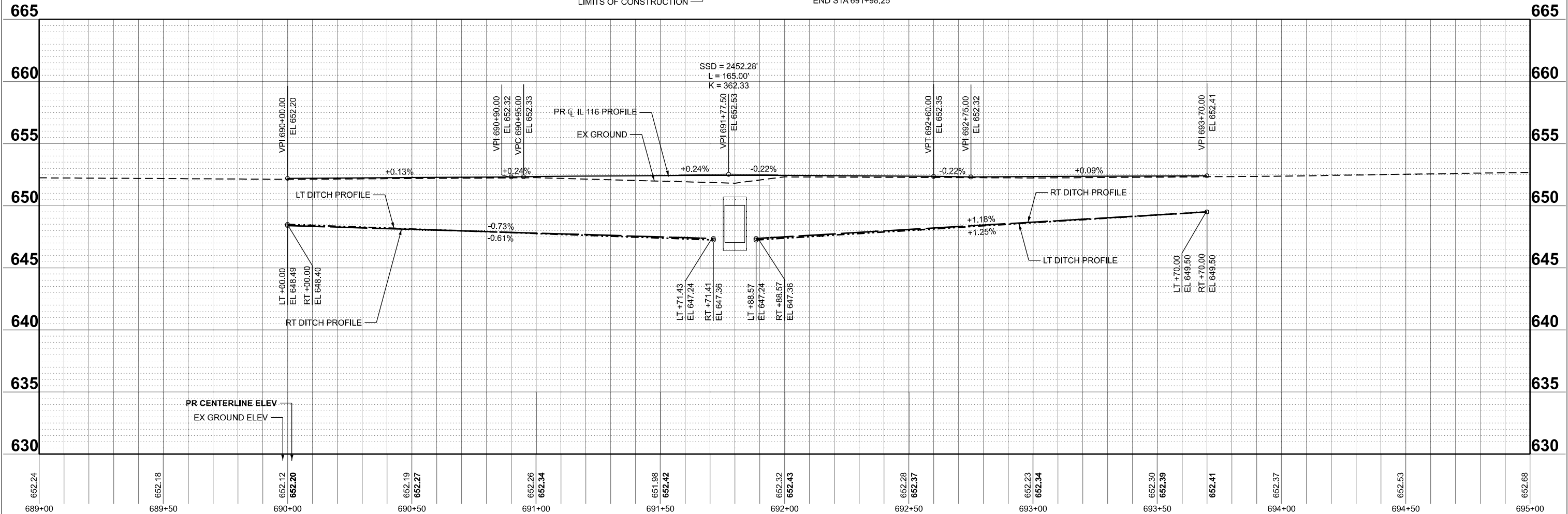
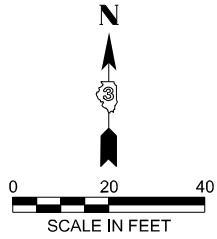
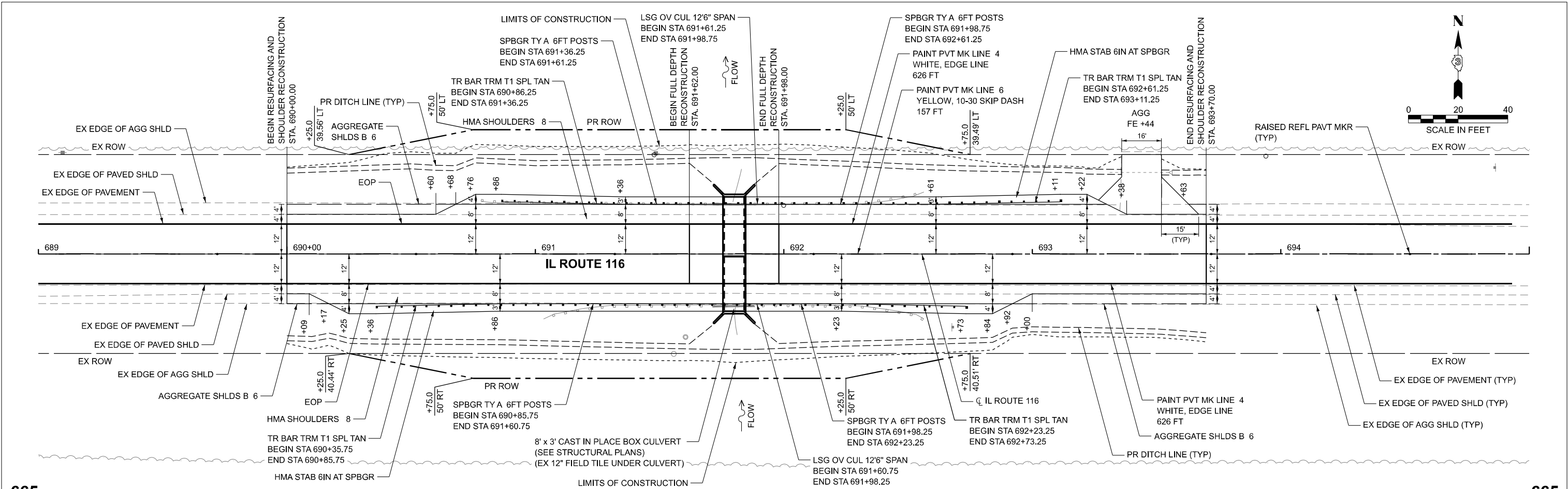
COPYRIGHT 2024

MODEL: SHELLENAMES
FILENAME: SHELLEN



LEGEND

-  PAVEMENT REMOVAL
-  HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"
-  PAVED SHOULDER REMOVAL
-  HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT



MAINTENANCE OF TRAFFIC GENERAL NOTES

1.
- THE SUGGESTED SEQUENCE OF OPERATIONS AND CONSTRUCTION STAGING DOES NOT, NOR IS IT INTENDED TO, DEPICT ALL OF THE WORK REQUIRED BY THE CONTRACTOR FOR STAGING OPERATIONS THROUGHOUT THE CONTRACT. THE SUGGESTED SEQUENCE OF CONSTRUCTION IS PROVIDED AS A GUIDE FOR THE CONTRACTOR'S USE TO ESTABLISH THE NECESSARY GUIDELINES FOR EFFICIENT TRAFFIC OPERATION DURING THE DURATION OF THE CONTRACT.
2.
- THE TEMPORARY TRAFFIC CONTROL SHOWN ON THE PLANS IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED BY IDOT STANDARDS AND SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.
3.
- THE CONTRACTOR MAY DESIRE TO MAKE REVISIONS OR MODIFICATIONS TO THE SEQUENCE OF CONSTRUCTION OR THE MAINTENANCE OF TRAFFIC PLANS. ALL CHANGES MUST BE SUBMITTED IN WRITING TO THE ENGINEER FOR APPROVAL. REVISIONS IN THE PHASING OF CONSTRUCTION OR MAINTENANCE OPERATIONS MAY REQUIRE ADDITIONAL TRAFFIC CONTROL TO BE INSTALLED OTHER THAN THOSE INDICATED IN THE PLANS. REVISIONS IN THE PHASING OF CONSTRUCTION OR MAINTENANCE OF TRAFFIC OPERATIONS REQUESTED BY THE CONTRACTOR REQUIRING ADDITIONAL SIGNING, BARRICADES, FLAGGING, OR OTHER TRAFFIC CONTROL DEVICES SHALL BE AT THE CONTRACTOR'S EXPENSE.
4.
- THE CONTRACTOR SHALL NOTIFY THE RESIDENT ENGINEER A MINIMUM OF 72 HOURS IN ADVANCE OF ANY CHANGE IN STAGING.
5.
- TRAFFIC CONTROL DEVICES SHALL BE REMOVED OR COVERED IMMEDIATELY WHEN THEY ARE NO LONGER NECESSARY OR APPLICABLE. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE DELINEATOR INSTALLED TO THE SATISFACTION OF THE ENGINEER.
6.
- EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE MAINTENANCE OF TRAFFIC SHALL BE REMOVED. MARKINGS REMOVED SHALL BE REMOVED WITH GRINDING METHODS.
7.
- THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN ACCESS TO ENTRANCES AND APPROACHES AT ALL TIMES AS INDICATED IN THE PLANS AND AS DIRECTED BY THE ENGINEER.
8.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING AND MAINTAINING CONSTRUCTION ACCESS POINTS. THE PROPOSED LOCATIONS SHALL BE APPROVED BY THE ENGINEER PRIOR TO USE.
9.
- THE CONTRACTOR SHALL CONSTRUCT ALL SUBSURFACE UTILITY STRUCTURES (DRAINAGE, SANITARY, WATER MAIN, ETC.) WITHIN THE CLEAR ZONE AND LEFT IN A TEMPORARY CONDITION SO AS NOT TO PRESENT A POINT HAZARD FOR OFF-THE-ROAD VEHICLES DURING SUBSEQUENT STAGES OF CONSTRUCTION.
10.
- TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY, OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. THE CONTRACTOR SHALL RESPOND TO ANY REQUESTS MADE BY THE ENGINEER FOR CORRECTION WITHIN TWO (2) HOURS FROM NOTIFICATION.

MAINTENANCE OF TRAFFIC STAGING SEQUENCE

STAGE IA

1.
- COORDINATE AND INSTALL SOIL EROSION AND SEIDMENT CONTROL MEASURES AND THE DEWATERING OF WATERWAY WITHIN THE ENTIRE PROJECT AREA. CONTRACTOR SHALL INSTALL PERIMETER EROSION BARRIER AT THIS TIME.
2.
- ALL WORK IN STAGE IA WILL BE COMPLETED UNDER IDOT TRAFFIC CONTROL STANDARDS 701006, 701201 AND 701326.
3.
- CONSTRUCT TEMPORARY PAVEMENT WIDENING FROM STA. 690+21 TO STA. 693+36. THE WORK SHALL BE COMPLETED UNDER IDOT TRAFFIC CONTROL STANDARDS 701201 AND 701326.

STAGE IB

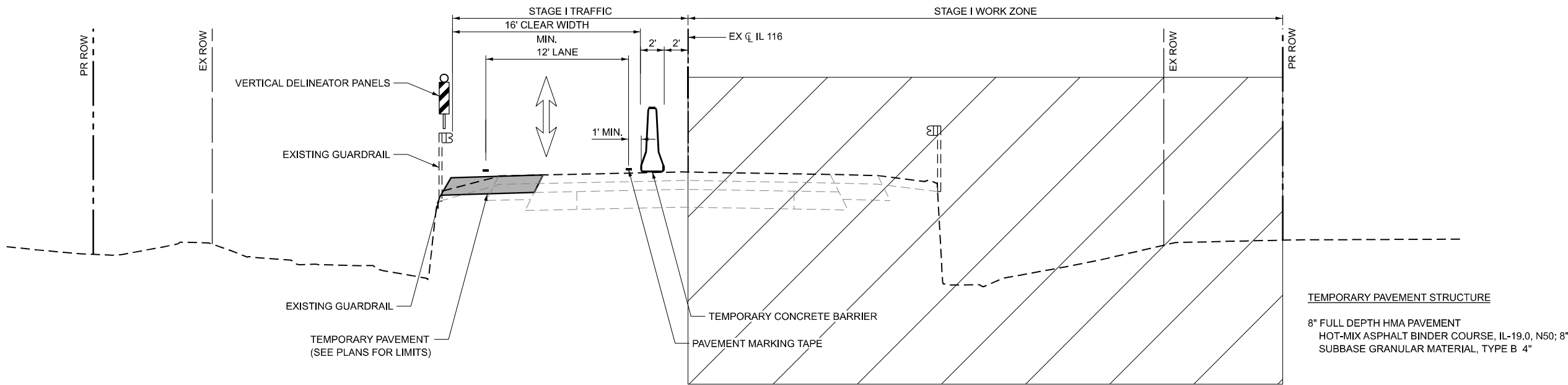
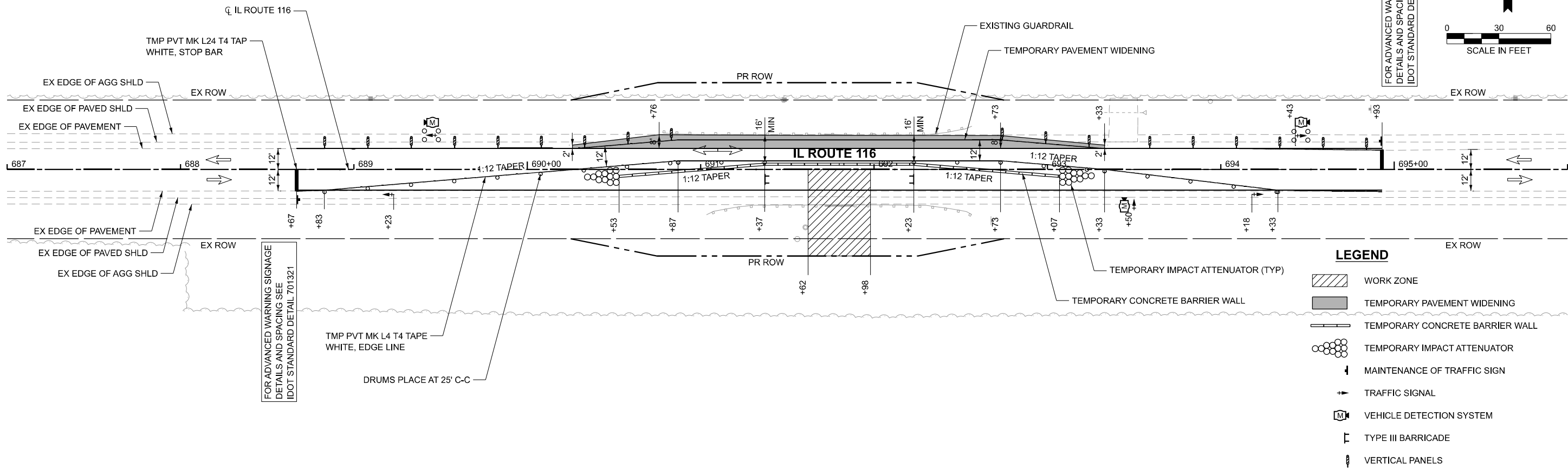
1.
- SET UP TEMPORARY STAGE IB TRAFFIC CONTROL, WHICH INCLUDES THE TEMPORARY CONCRETE BARRIER WALL, SIGNAGE, DRUMS/BARRICADES, STRIPING AND ATTENUATORS ETC. FROM STA. 688+67 TO STA. 694+93.
2.
- SET UP TEMPORARY PORTABLE TRAFFIC SIGNALS AT EACH END OF THE PROJECT, AND FOR FIELD ENTRANCE LOCATED AT STA. 693+44.
3.
- CONSTRUCT TEMPORARY SOIL RETENTION SYSTEM AND PLACE ADDITIONAL EROSION CONTROL AS NEEDED.
4.
- MOVE TRAFFIC ONTO STAGE IB LANE CONFIGURATION AS SHOWN ON THE PLANS AND FOLLOWING IDOT TRAFFIC CONTROL STANDARD 701321.
5.
- REMOVE EXISTING ROADWAY PAVEMENT, SHOULDER, AND CULVERT TO THE RIGHT OF THE CENTERLINE. REMOVE ALL EXISTING GUARDRAIL AND TERMINALS TO THE RIGHT OF THE CENTERLINE.
6.
- PREPARE THE SUBBASE AND CONSTRUCT THE CULVERT, CULVERT HEADWALLS AND WINGWALLS TO THE RIGHT OF THE CENTERLINE. GRADE EMBANKMENT AND DITCHES, CONSTRUCT SUBGRADE, AGGREGATE BASES, SHOULDERS, AND ROADWAY PAVEMENT, WITH THE EXCEPTION OF THE FINAL SURFACE COURSE LIFT, TO THE RIGHT OF THE CENTERLINE. GUARDRAILS AND TERMINALS SHALL BE CONSTRUCTED FOR THE ENTIRETY OF THEIR LIMITS TO THE RIGHT OF THE CENTERLINE.
7.
- REPLACE OR REPAIR ANY TEMPORARY SHEET PILING, COFFERDAMS, TEMPORARY BYPASS AND PUMPING OPERATIONS OR ANY EROSION CONTROL MEASURES DAMAGED OR REMOVED DURING CONSTRUCTION.

STAGE II

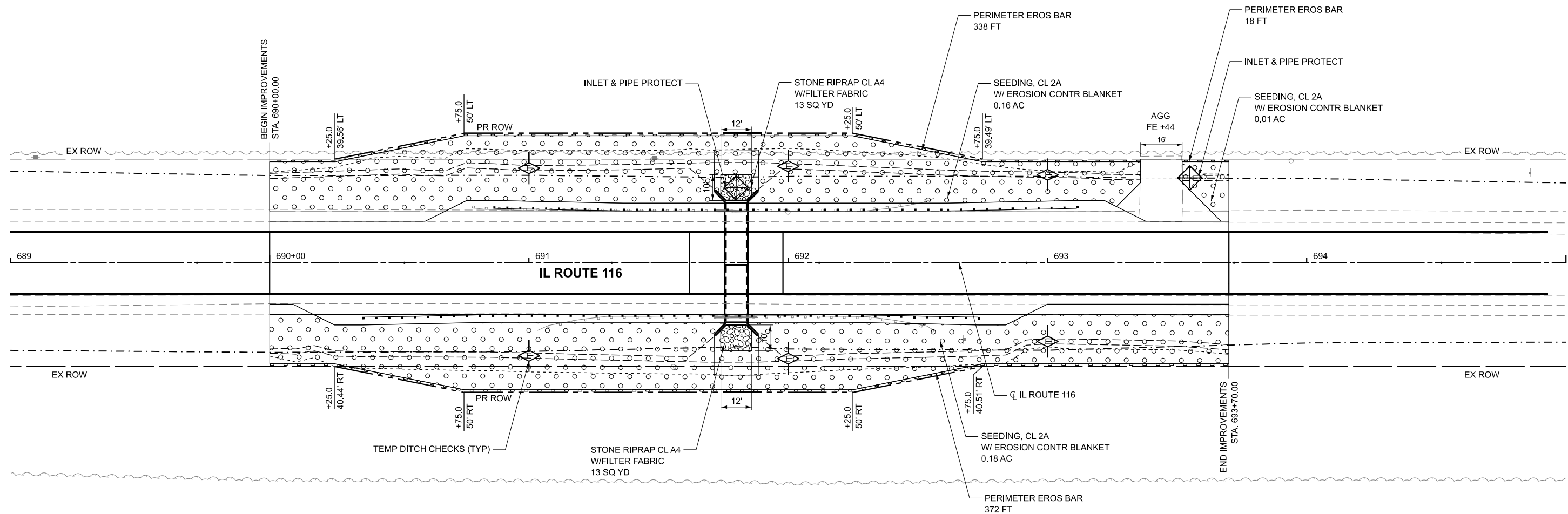
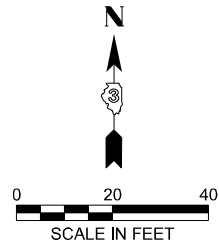
1.
- SET UP TEMPORARY STAGE II TRAFFIC CONTROL, WHICH INCLUDES RELOCATION OF THE TEMPORARY CONCRETE BARRIER WALL, SIGNAGE, DRUMS/BARRICADES, STRIPING AND ATTENUATORS, ETC. FROM STA. 688+67 TO STA. 694+93.
2.
- RELOCATE TEMPORARY PORTABLE TRAFFIC SIGNALS AT EACH END OF THE PROJECT, AND AT FIELD ENTRANCE, STA. 693+44, FOR STAGE II LANE CONFIGURATION.
3.
- CONSTRUCT TEMPORARY SOIL RETENTION SYSTEM AND PLACE ADDITIONAL EROSION CONTROL AS NEEDED FOR STAGE II.
4.
- MOVE TRAFFIC ONTO STAGE II LANE CONFIGURATION AS SHOWN ON THE PLANS AND FOLLOWING IDOT TRAFFIC CONTROL STANDARD 701321.
5.
- REMOVE TEMPORARY PAVEMENT, EXISTING ROADWAY PAVEMENT, SHOULDER, AND CULVERT TO THE LEFT OF THE CENTERLINE. REMOVE ALL EXISTING GUARDRAIL AND TERMINALS TO THE LEFT OF THE CENTERLINE.
6.
- PREPARE THE SUBBASE AND CONSTRUCT THE CULVERT, CULVERT HEADWALLS AND WINGWALLS TO THE LEFT OF THE CENTERLINE. GRADE EMBANKMENT AND DITCHES, CONSTRUCT SUBGRADE, AGGREGATE BASES, SHOULDERS, AND ROADWAY PAVEMENT, WITH THE EXCEPTION OF THE FINAL SURFACE COURSE LIFT, TO THE LEFT OF THE CENTERLINE. GUARDRAILS AND TERMINALS SHALL BE CONSTRUCTED FOR THE ENTIRETY OF THEIR LIMITS TO THE LEFT OF THE CENTERLINE.
7.
- REMOVE TEMPORARY SHEET PILING, COFFERDAMS, TEMPORARY BYPASS AND PUMPING OPERATIONS.
8.
- REPLACE OR REPAIR ANY EROSION CONTROL MEASURES DAMAGED OR REMOVED DURING CONSTRUCTION.

STAGE III

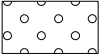
1.
- REMOVE ALL REMAINING TRAFFIC CONTROL REMAINING FROM STAGE II.
2.
- ALL WORK IN STAGE III SHALL BE COMPLETED UNDER IDOT TRAFFIC CONTROL STANDARDS 701006, 701201 AND 701326.
3.
- MILL EXISTING HOT-MIX ASPHALT SURFACE KEEPING AT LEAST ONE LANE OPEN AT ALL TIMES, STA. 690+00 TO STA 693+70.
4.
- PAVE BINDER COURSE AND SURFACE COURSE PAVEMENT INCLUDING THE FINAL SURFACE COURSE ON PAVED SHOULDERS KEEPING AT LEAST ONE LANE OPEN AT ALL TIMES FOR THE LIMITS OF THE PROJECT.
5.
- INSTALL FINAL SEEDING AND PERMANENT EROSION CONTROL MEASURES, AND REMOVE ANY REMAINING TEMPORARY EROSION CONTROL MEASURES, I.E. PERIMETER EROSION BARRIER.



MAINTENANCE OF TRAFFIC TYPICAL SECTION
IL 116 STAGE I



LEGEND

-  SEEDING CLASS 2A W/
EROSION CONTROL BLANKET
-  STONE RIPRAP, CLASS A4
W/FILTER FABRIC
-  TEMPORARY DITCH CHECK
-  INLET AND PIPE PROTECTION
-  PERIMETER EROSION BARRIER
(SILT FENCE)

Existing Structure: SN 053-2548 was built in 1927 and carries IL Route 116 over Morehouse Creek Tributary. The structure is a single barrel 6' x 3' cast-in-place concrete box culvert with out to out length of 41'-4" and perpendicular wingwalls. In 2017, the culvert was lined with two 30"Ø PVC pipes and filled with controlled low-strength material. Traffic will be maintained using stage construction.

LONGITUDINAL SECTION
(Looking East)

48'-0" Out to Out of Headwalls

24'-0" 24'-0"

3'-0" 8'-0" Shldr. 12'-0" Lane 12'-0" Lane 8'-0" Shldr. 3'-0"

Stage II Construction Stage I Construction

1'-0" typ. 1'-0" Stage Construction Line

Cr. Elev. 652.43

4% 1.5% 1.5% 4%

9" typ. 10"

D.H.W.E. 650.70

Horizontal Cantilever Wingwall, typ.

See road plans

D.S. Inv. Elev. 647.00 3"Ø Weep Holes @ 8'-0" cts. 3'-0" U.S. Inv. Elev. 647.10

12" Rock Fill 11" 3'-0" typ. 8" typ.

48'-0" Out to Out of Headwalls

24'-0" 24'-0"

8'-0" Shldr. 12'-0" Lane 12'-0" Lane 8'-0" Shldr.

Stage II Construction Stage I Construction

CL IL 116

Stage Construction Line

1'-0"

2'-0" typ.

8" typ.

1:3 (V:H)

5'-9" typ.

6"

8'-0"

90°

CL Structure Sta. 691+80

1'-0" typ.

CL Culvert

Name Plate

1:3 (V:H)

45°

Stations Increase

Temporary Soil Retention System, typ.

Rock Fill

1:3 (V:H)

LEGEND

PLAN

B-02

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

And...

 Soil Boring

PLAN

 B-02

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Mark Sheffer
ENGINEER OF BRIDGES & STRUCTURES

Andy Underwager XX/XX/XXXX
 ANDREW E. UNDERWAGER, S.E. DATE
 License Number: 081-006218
 My license renewal date is November 30, 2026.

Exist. Overtopping Elev. = 652.13 @ Sta. 690+00 Drainage Area = 516.8 acres Prop. Overtopping Elev. = 652.13 @ Sta. 690+00									
Flood	Freq. Yr.	Q C.F.S.	Opening Ft		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	81	18	24	650.6	0.6	0.5	651.1	651.1
Design	50	128	18	24	650.7	1.4	1.0	652.1	651.7
Overtop Existing	51	129	18	24	650.7	1.4	--	652.2	--
Base	100	149	18	24	650.8	1.5	1.2	652.3	652.0
Overtop Proposed	129	157	18	24	650.8	--	1.3	--	652.1
Scour Check	200	170	18	24	650.9	1.5	1.4	652.3	652.2
Max Calc.	500	198	18	24	650.9	1.4	1.4	652.3	652.3

DESIGN SPECIFICATIONS
2024 AASHTO LRFD Bridge Design Specifications
Customary U.S. Units, 10th Edition

1'-4"

Stone Riprap,
Class A4

6"

Bedding

Filter fabric

4'-0"

6'-0"

Diagram illustrating a parabolic curve with three points:

- PVC 690+95.00 (Elev. 652.33)
- PVI 691+77.50 (Elev. 652.53)
- PVT 692+60.00 (Elev. 652.35)

The curve length is $LVC = 165'$. The grades are $+0.24\%$ and -0.22% .

Range 4E, 3rd P.M.

Twp. 28N

N. 600 E. Rd.

N. 700 E. Rd.

N. 800 E. Rd.

N. 1800 N. Rd.

IL Route 116

Creek

Morphouse

19

20

29

30

Proposed Structure

LOCATIONS SKETCH

STRUCTURE NO. 053-2597

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Precast alternate is not allowed.

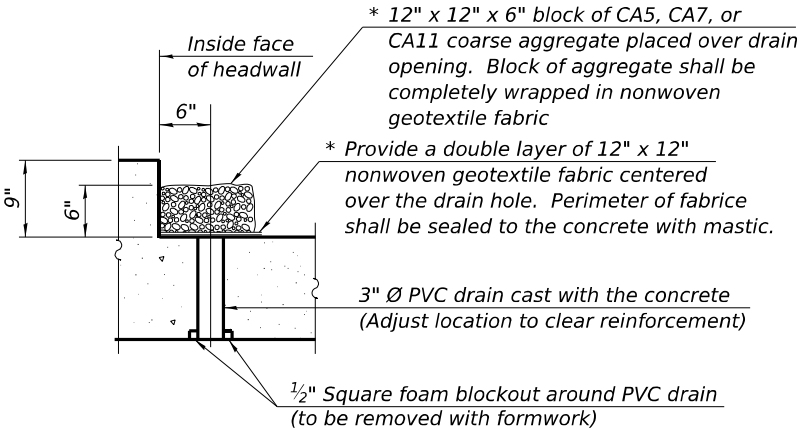
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL QUANTITY
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	7,030
Bar Splicers	Each	44
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	59
Concrete Box Culverts	Cu. Yd.	38.7
Geocomposite Wall Drain	Sq. Yd.	65
Membrane Waterproofing System for Buried Structures	Sq. Yd.	65
Rock Fill	Cu. Yd.	23

INDEX OF SHEETS

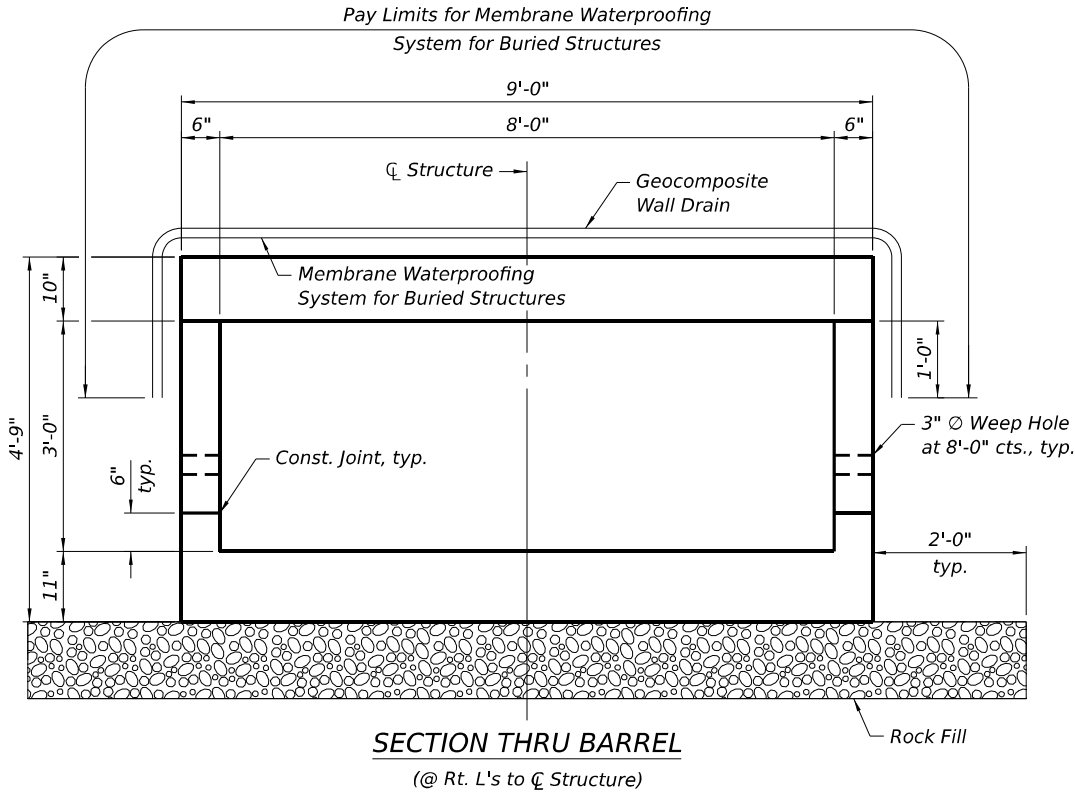
1. General Plan & Elevation
2. General Data
3. Stage Construction Details
4. Temporary Concrete Barrier
5. Culvert Details
6. Bar Splicer Assembly
7. Soil Boring Logs

* Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.



DRAIN DETAIL

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



MOREHOUSE CREEK TRIBUTARY
BUILT BY
STATE OF ILLINOIS
SEC. (112) CR-2548
LOADING HL-93
STRUCTURE NO. 053-2597

NAME PLATE

See Std. 515001

FILE NAME: \\hrgreen.com\hrgData\2023\2302696.03\CAD\CADsheets\053-2597-D366N23-shl-struct.dgn



HRGreen.com
Illinois Professional Design Firm
#184-001322

USER NAME = amiller

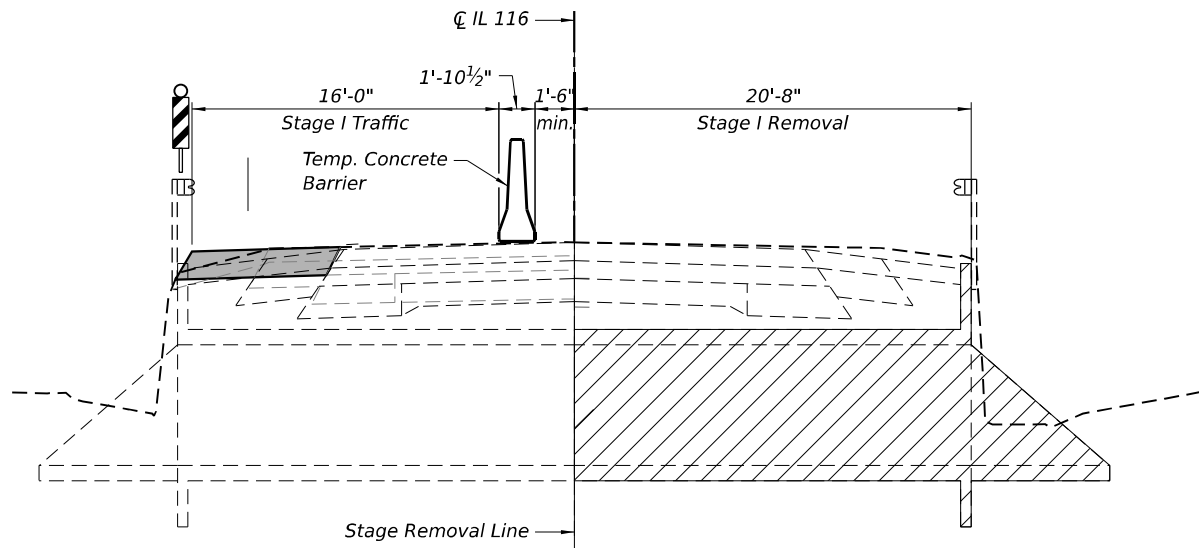
DESIGNED - FAS	REVISED -
CHECKED - AEU	REVISED -
DRAWN - FAS	REVISED -
CHECKED - AEU	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

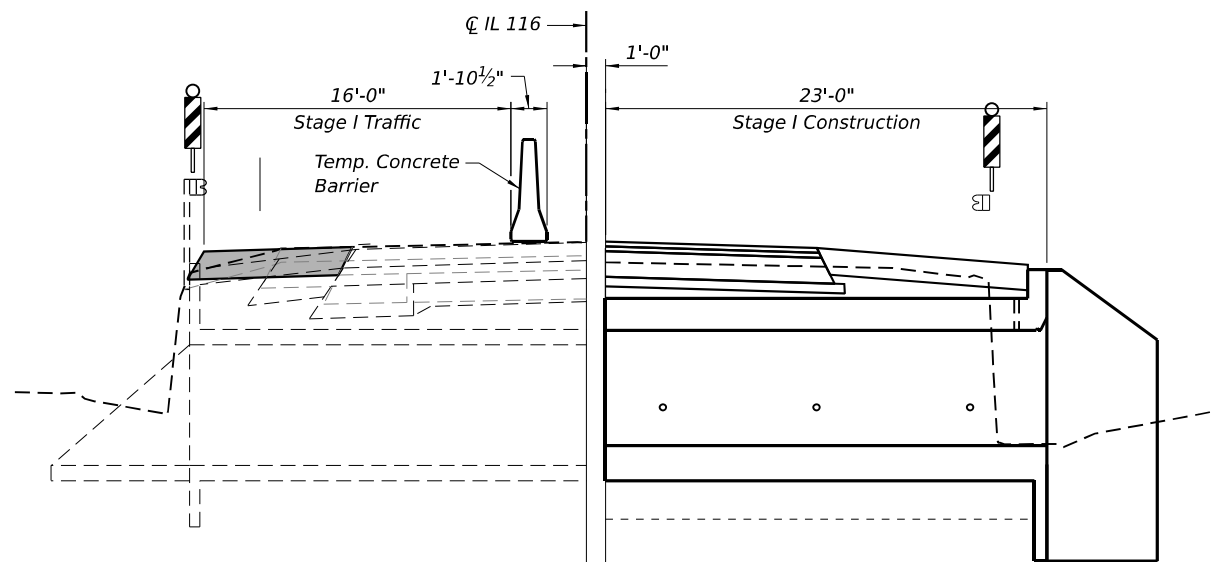
GENERAL DATA
STRUCTURE NO. 053-2597

SHEET 2 OF 7 SHEETS

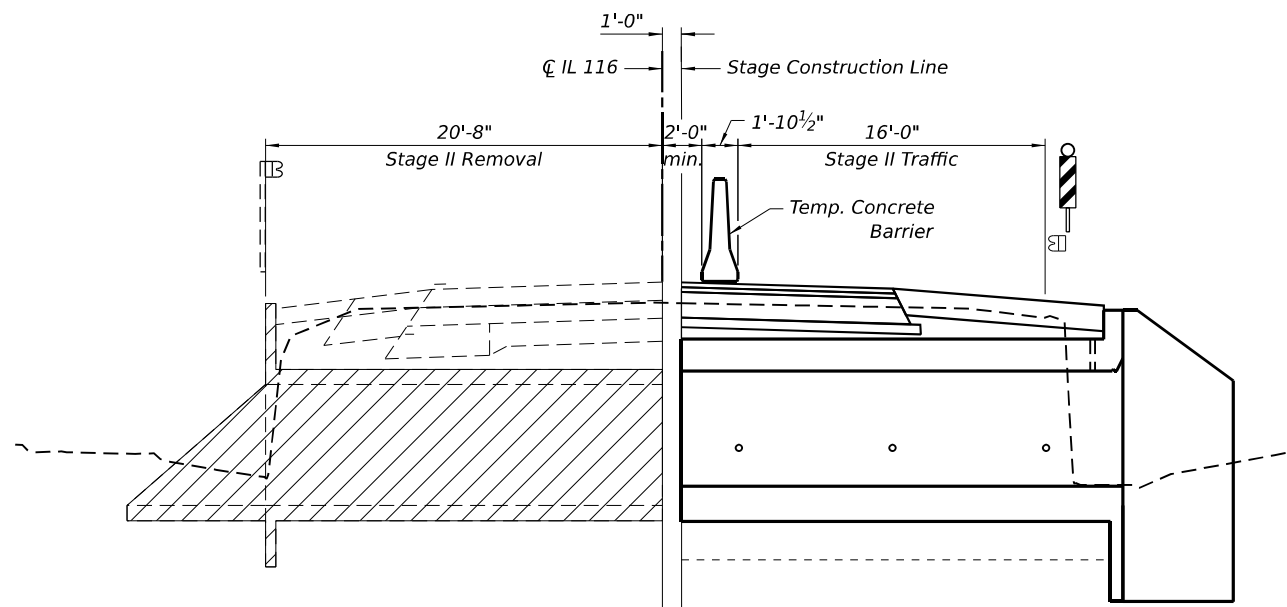
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(112)CR-2548	LIVINGSTON	41	23
CONTRACT NO.66N23				
ILLINOIS FED. AID PROJECT				



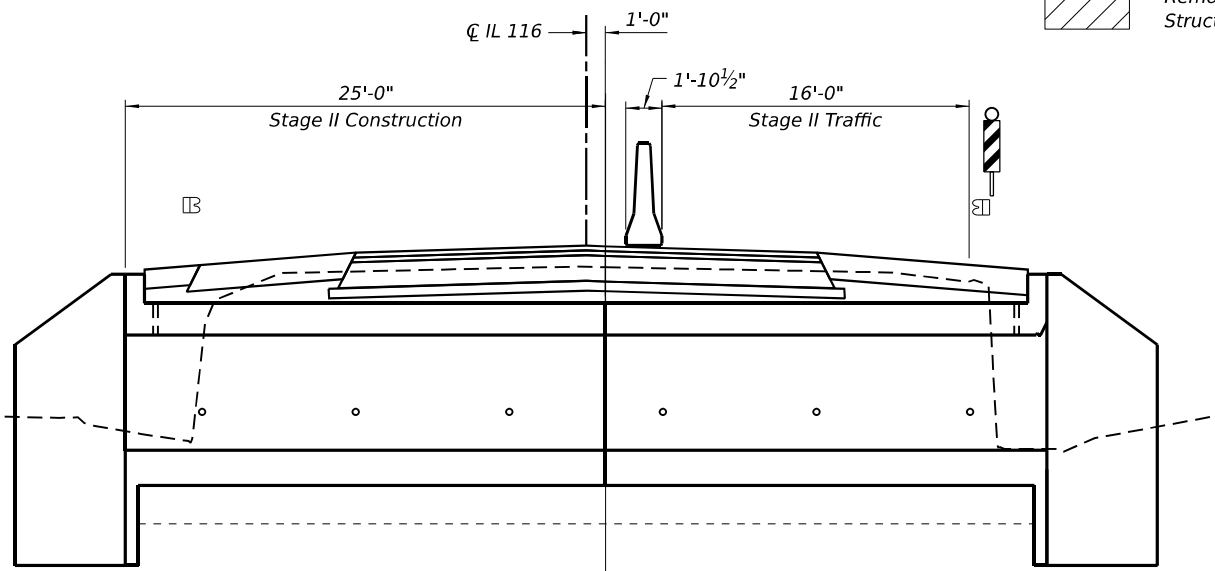
STAGE I REMOVAL



STAGE I CONSTRUCTION



STAGE II REMOVAL



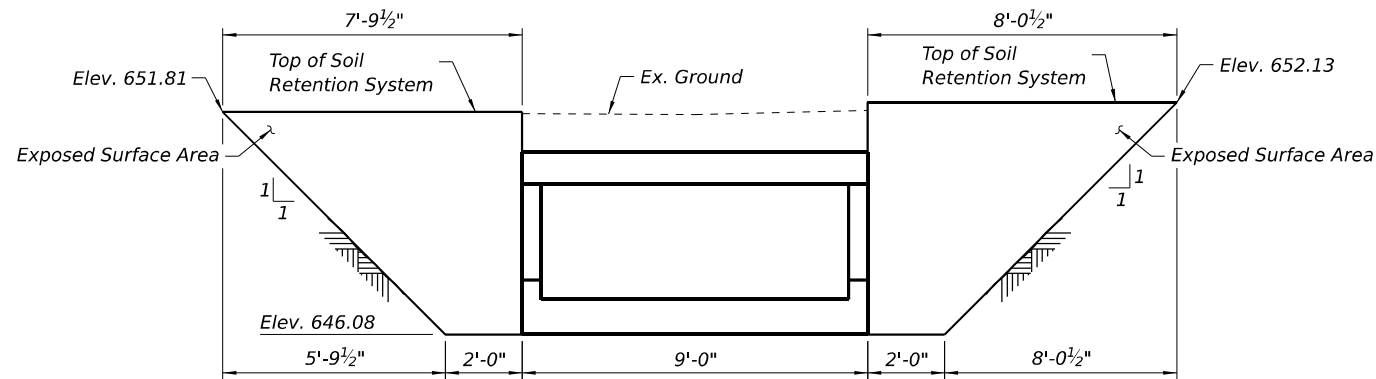
STAGE II CONSTRUCTION

LEGEND:

 Removal of Existing Structures

STAGE CONSTRUCTION DETAILS

(Looking East)



TEMPORARY SOIL RETENTION SYSTEM

Note:
A cantilevered sheet pile 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.

FILE NAME: \\hrgreen.com\hrg\Drawings\2023\2302696.03\CAD\CADsheets\053-2597-D366N23-shr-struct.dgn



HRGreen.com
Illinois Professional Design Firm
#184-001322

USER NAME = amiller	DESIGNED - FAS	REVISED -
	CHECKED - AEU	REVISED -
	DRAWN - FAS	REVISED -
PLOT DATE = 3/3/2026	CHECKED - AEU	REVISED -

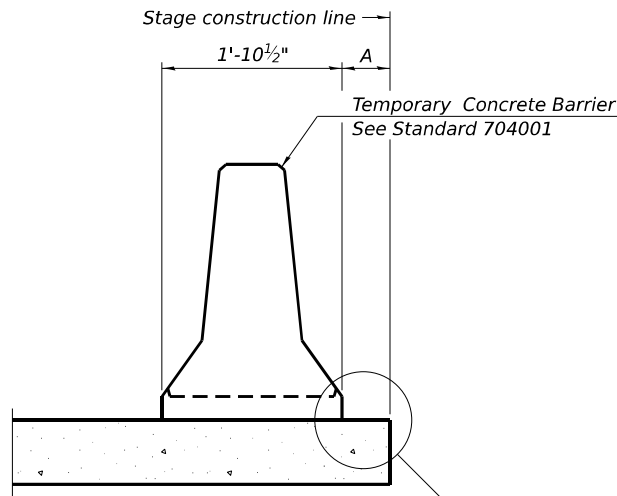
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 053-2597**

SHEET 3 OF 7 SHEETS

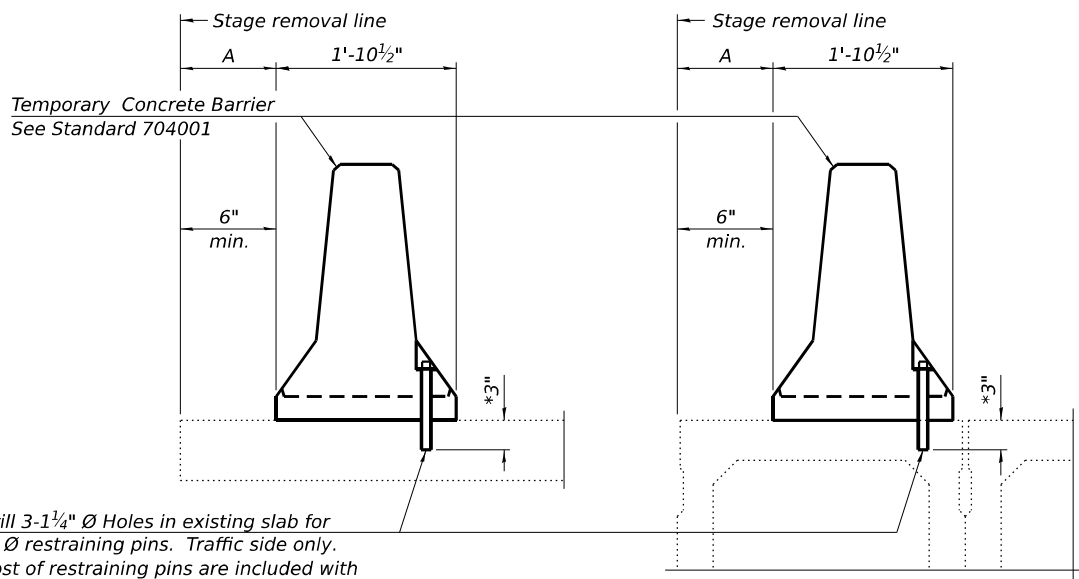
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(112)CR-2548	LIVINGSTON	41	24
CONTRACT NO.66N23				
ILLINOIS FED. AID PROJECT				

3/3/2026 3:42:02 PM



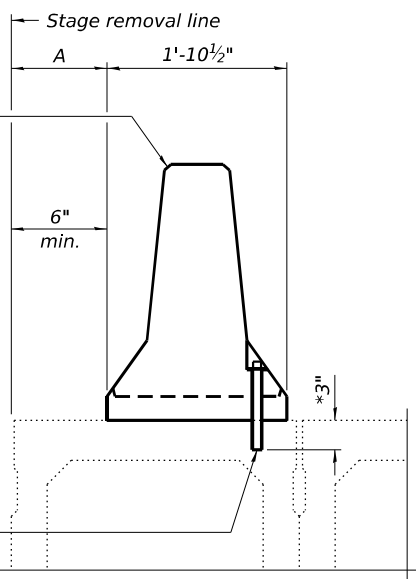
When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM



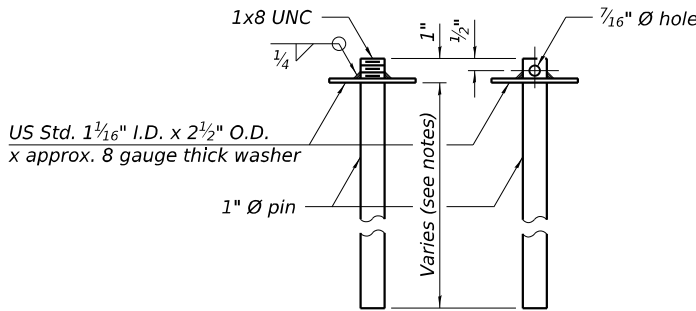
Drill 3-1 1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

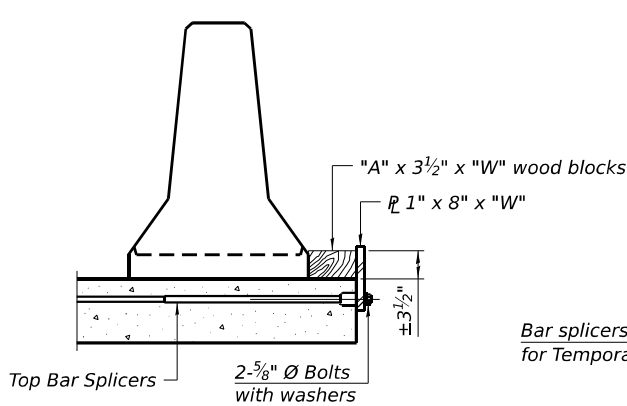


* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

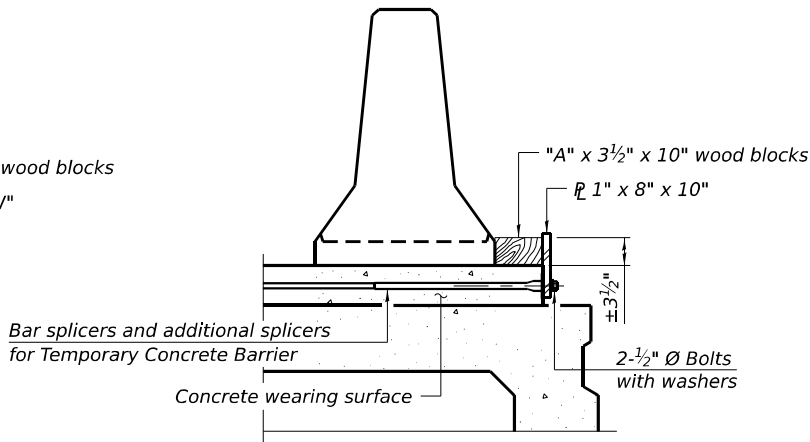
EXISTING DECK BEAM



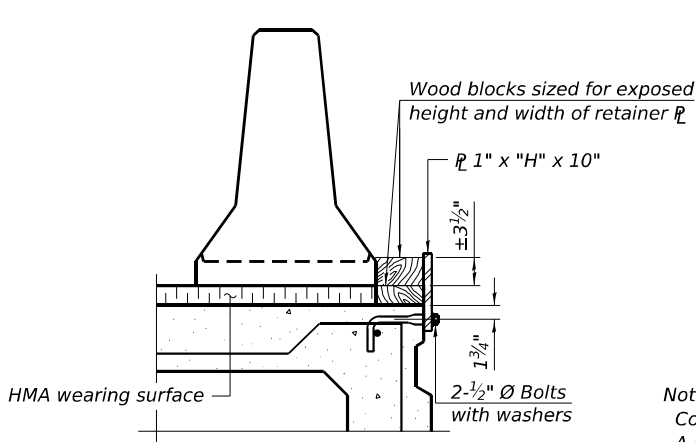
RESTRAINING PIN



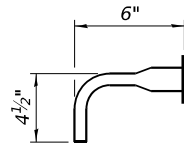
DETAIL I



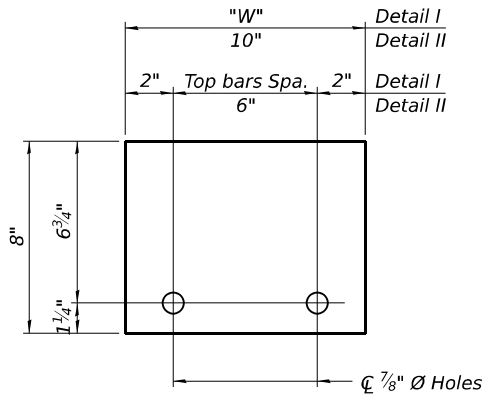
DETAIL II



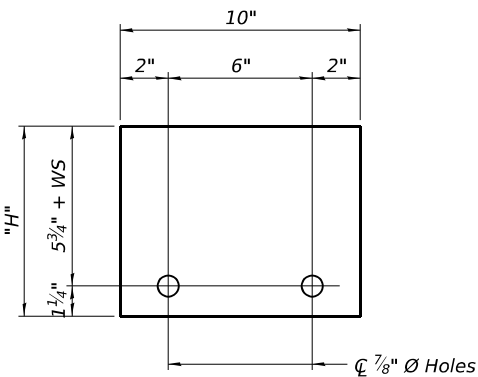
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



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



STEEL RETAINER ϕ 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 ϕ 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

5-15-2023



HRGreen.com
Illinois Professional Design Firm
#184-001322

USER NAME = amiller	DESIGNED - FAS	REVISED -
	CHECKED - AEU	REVISED -
	DRAWN - FAS	REVISED -
PLOT DATE = 3/3/2026	CHECKED - AEU	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

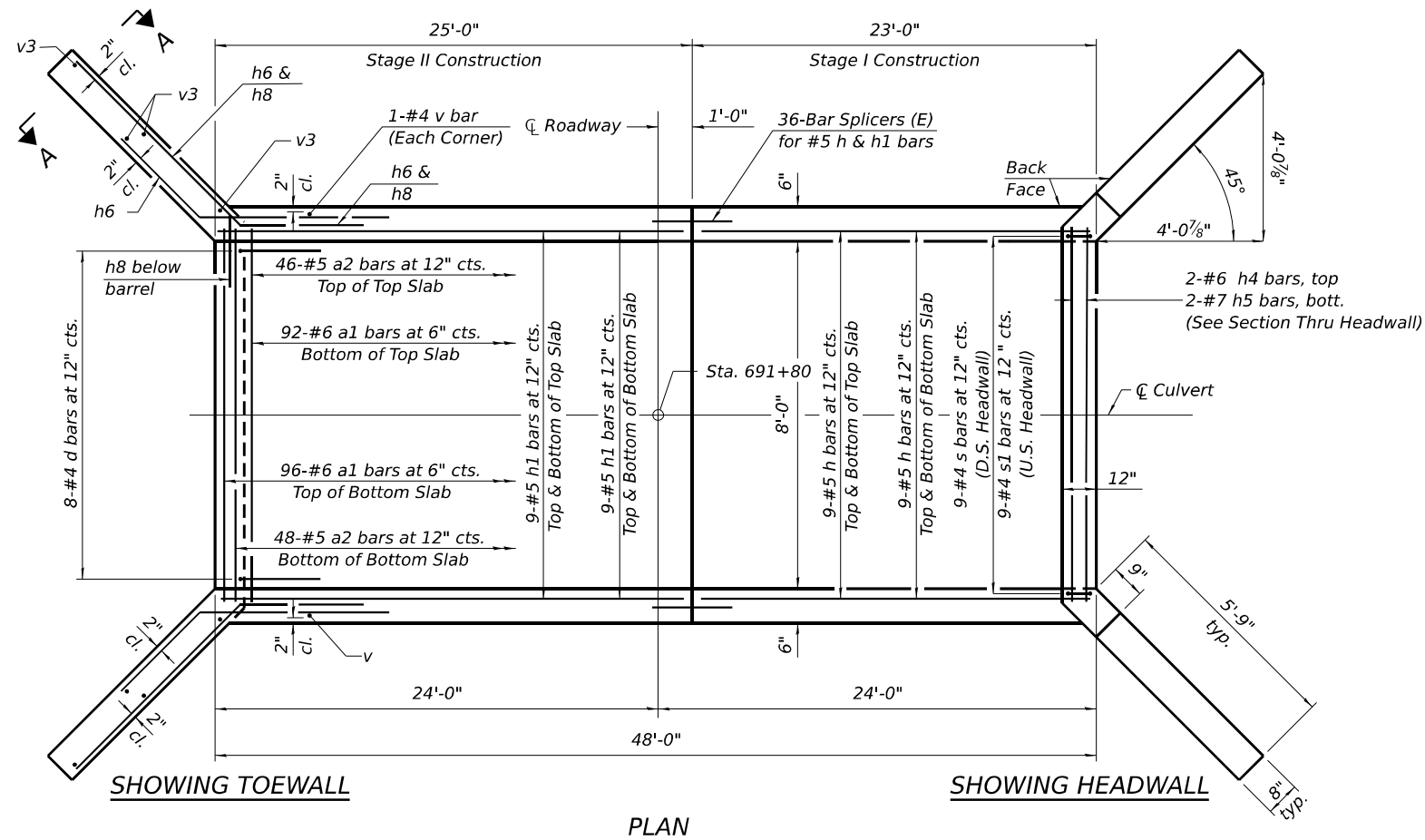
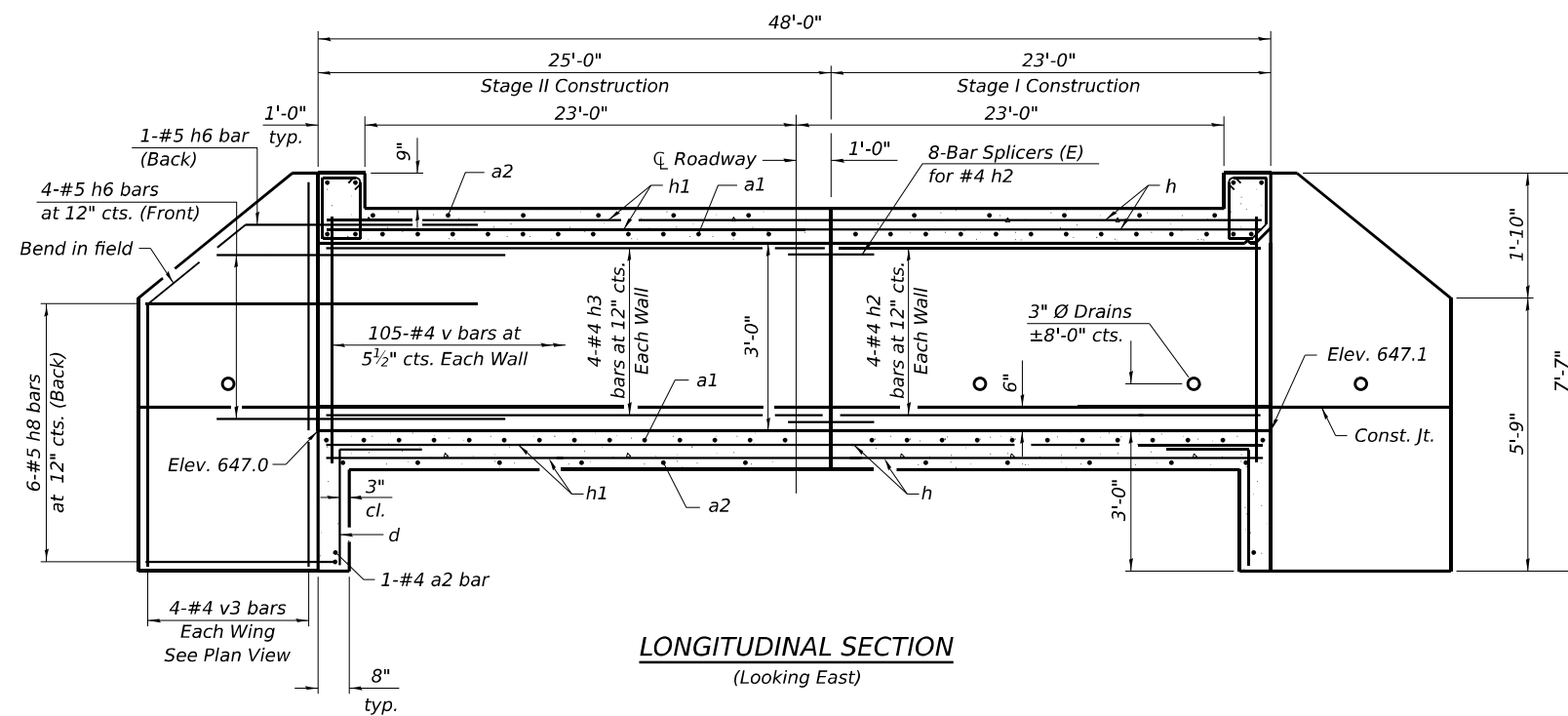
TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 053-2597

SHEET 4 OF 7 SHEETS

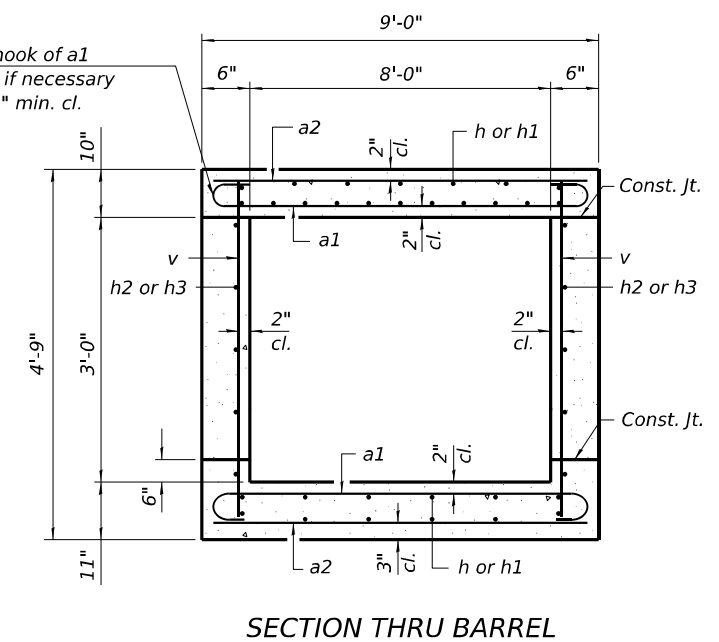
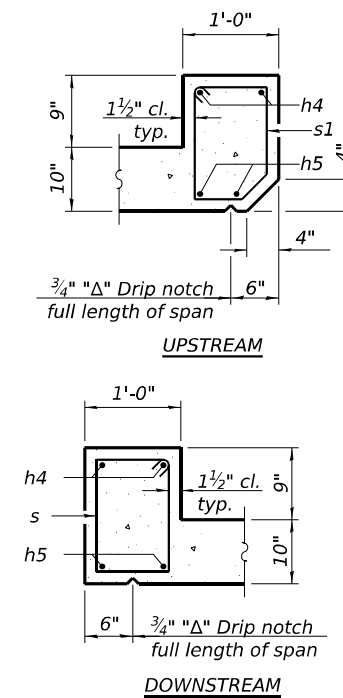
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(112)CR-2548	LIVINGSTON	41	25
CONTRACT NO.66N23				
ILLINOIS FED. AID PROJECT				

FILE NAME: \\hrgreen.com\hrgData\2023\2302696.03\CAD\CADsheets\053-2597-D366N23-shr-struct.dgn

3/3/2026 3:42:03 PM

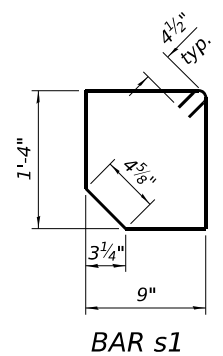
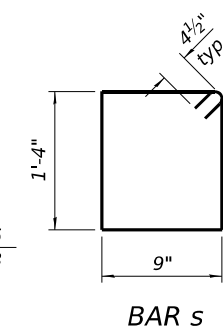
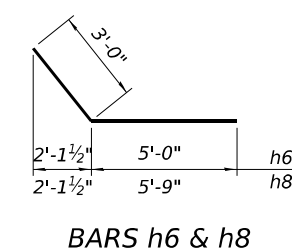
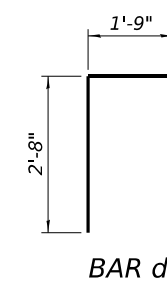
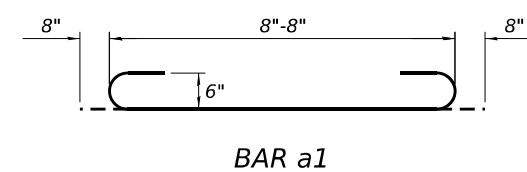
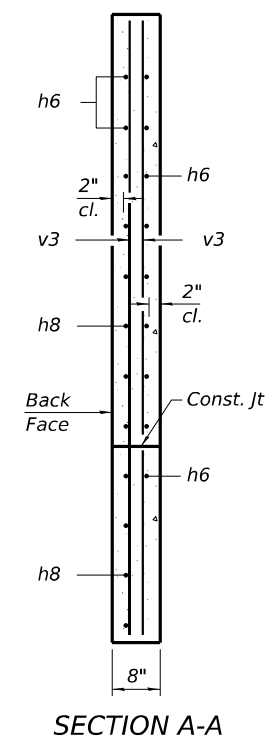


Notes:
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

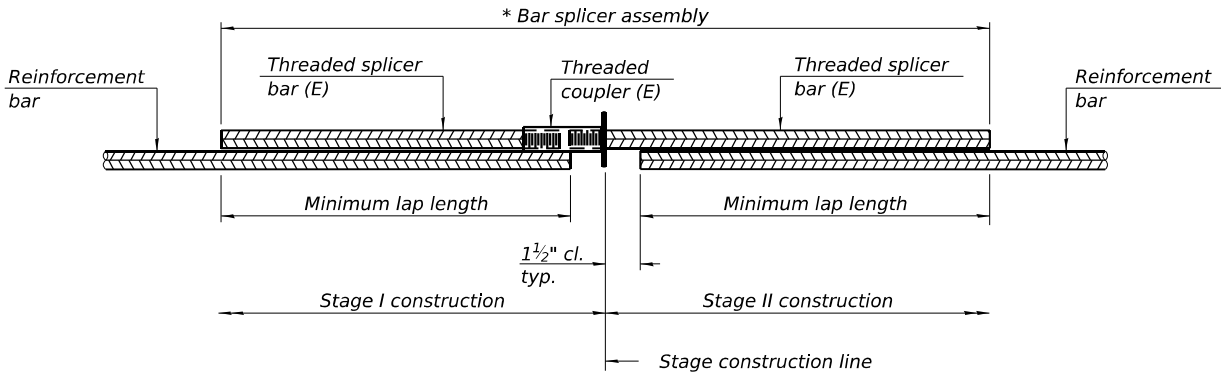


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	188	#6	10'-0"	
a2	96	#5	8'-8"	
d	16	#4	4'-5"	
h	36	#5	22'-8"	
h1	36	#5	24'-8"	
h2	8	#4	22'-8"	
h3	8	#4	24'-8"	
h4	4	#6	8'-6"	
h5	4	#7	8'-6"	
h6	20	#5	8'-0"	
h8	24	#5	8'-9"	
s	9	#4	4'-11"	
s1	9	#4	4'-9"	
v	214	#4	4'-4"	
v3	16	#4	7'-3"	
Concrete Box Culverts			Cu. Yd.	39.0
Reinforcement Bars			Pound	7,030



FILE NAME: \\hrgreen.com\hrgData\2023\2302696.03\CAD\CADsheets\053-2597-D366N23-shl-struct.dgn



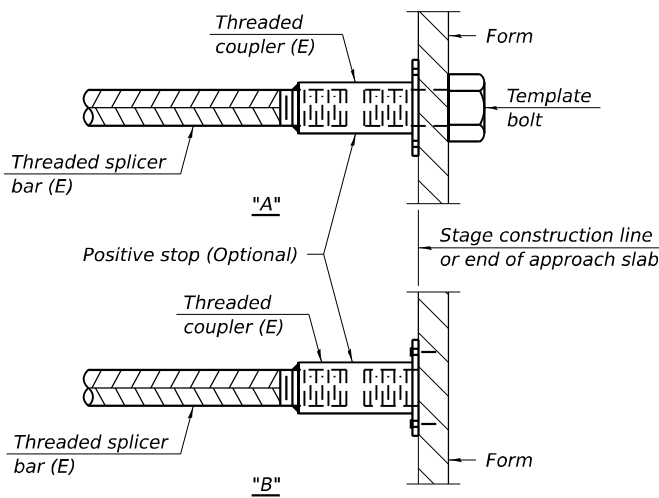
STANDARD BAR SPLICER ASSEMBLY PLAN

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	#5	18	2'-1"
Bottom Slab	#5	18	2'-1"
Walls	#4	8	2'-2"

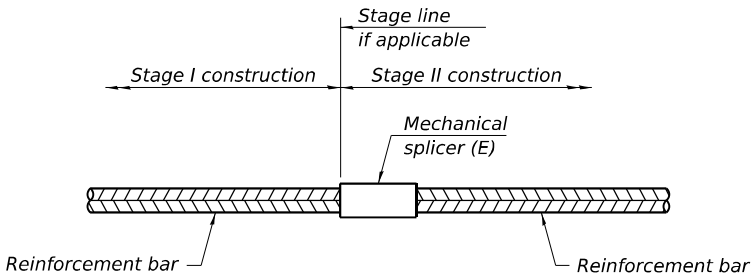


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

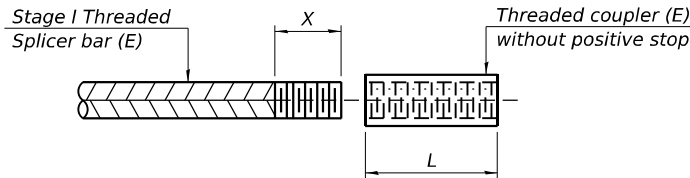
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

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

4-4-2025



HRGreen.com
Illinois Professional Design Firm
#184-001322

USER NAME = amiller	DESIGNED - FAS	REVISED -
	CHECKED - AEU	REVISED -
	DRAWN - FAS	REVISED -
PLOT DATE = 3/3/2026	CHECKED - AEU	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY
STRUCTURE NO. 053-2597

SHEET 6 OF 7 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(112)CR-2548	LIVINGSTON	41	27
CONTRACT NO.66N23				
		ILLINOIS	FED. AID PROJECT	



SOIL BORING LOG

Date 1/30/18

ROUTE FAP 673 (IL 116) DESCRIPTION IL 116 over a Stream, 5.6 miles West of I-55 LOGGED BY Larry Myers

SECTION 112 LOCATION SE 1/4, SEC. 20, TWP. 28N, RNG. 4E, 3rd PM, Latitude 40.872032, Longitude -88.780224

COUNTY Livingston DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 053-2548	D	B	U	M	Surface Water Elev. None ft	D	B	U	M
Station 385+24	E	L	C	O	Stream Bed Elev. 647.19 ft	E	L	C	I
	P	O	S	I		P	O	S	S
BORING NO. 01 (N.E. Quad.)	T	W	Qu	T	Groundwater Elev.:	T	W	Qu	T
Station 385+06	H	S			First Encounter 635.9 ft	H	S		
Offset 16.0 ft Rt.					Upon Completion 621.9 ft				
Ground Surface Elev. 651.90 ft	(ft)	(/6")	(tsf)	(%)	After Hrs. ft	(ft)	(/6")	(tsf)	(%)
Augered Shoulder Stone, Asphalt Millings, Black Silty Clay Loam Fill					Hard to Very Stiff Gray Silty Clay Loam Till with Sand Layers @ 16 ft. with free water in Sand Layers, Large Limestone Gravel Pieces @ 20+ ft. & Layers of Sandy Loam, Silty Loam and Loam (continued)				
649.40									
Stiff to Very Stiff Black Silty Clay Loam Fill	3					8			
647.40	3	2.0	33			11	4.5	11	
	3	P				15	S		
Stiff Gray & Brown Silty Clay Loam Till	-5					-25			
644.90	2					5			
	2	1.5	26			9	4.3	10	
	3	P				8	S		
Very Stiff to Hard Gray & Brown Silty Clay Loam Till					Hard Grayish Brown Silty Loam				
642.40	3					10			
	3	3.8	26			17	6.2	13	
	5	B				19	S		
Hard to Very Stiff Gray Silty Clay Loam Till with Sand Layers @ 16 ft. with free water in Sand Layers, Large Limestone Gravel Pieces @ 20+ ft. & Layers of Sandy Loam, Silty Loam and Loam	-10					8			
	5					12	5.4	19	
	7	6.6	22			9	S		
	9	S							
	3								
	4	4.0	13						
	6	S							
	-15								
	4					10			
	5	3.8	13			12	5.7	20	
	7	S				14	S		
					End of Boring				
	4								
	5	4.1	16						
	5	S							
	-20								

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Date 1/30/18

ROUTE FAP 673 (IL 116) DESCRIPTION IL 116 over a Stream, 5.6 miles West of I-55 LOGGED BY Larry Myers

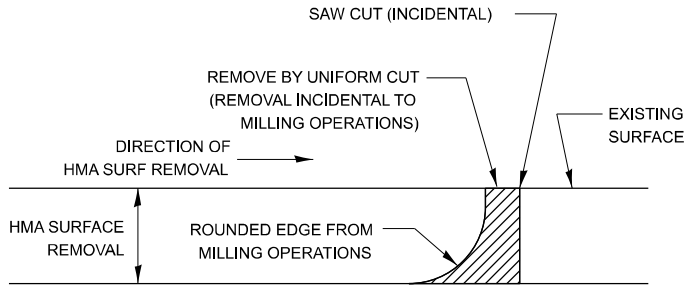
SECTION 112 LOCATION NE 1/4, SEC. 29, TWP. 28N, RNG. 4E, 3rd PM, Latitude 40.871938, Longitude -88.780372

COUNTY Livingston DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 053-2548	D	B	U	M	Surface Water Elev. None ft	D	B	U	M
Station 385+24	E	L	C	O	Stream Bed Elev. 647.09 ft	E	L	C	I
	P	O	S	I		P	O	S	S
BORING NO. 02 (S.W. Quad.)	T	W	Qu	T	Groundwater Elev.:	T	W	Qu	T
Station 385+44	H	S			First Encounter 634.8 ft	H	S		
Offset 16.0 ft Lt.					Upon Completion 621.8 ft				
Ground Surface Elev. 651.79 ft	(ft)	(/6")	(tsf)	(%)	After Hrs. ft	(ft)	(/6")	(tsf)	(%)
Augered Shoulder Stone, Brown Sand & Gravel, Black Silty Clay Loam Fill					Very Stiff to Hard Gray Silty Clay Loam / Silty Loam Till with Minor Sand Layers at 17 ft. (continued)				
649.29									
Stiff Black Silty Clay Loam Fill with Clay Tile Pieces @ 5 ft.	3					8			
	3	1.5	31			11		11	
	3	P				13			
	-5					-25			
	2					7			
	2		28			10		13	
	2					11			
* Clay Tile Pieces plugging spoon					Hard Grayish Brown Silty Loam				
642.29	4					8			
	5					12		13	
	5	*				14			
Hard Gray Silty Clay Loam Till	-10					9			
	10					10		16	
	14	5.7	23			12			
	17	S							
Very Stiff to Hard Gray Silty Clay Loam / Silty Loam Till with Minor Sand Layers at 17 ft.									
639.79	4								
	5	3.4	14						
	5	B							
	-15					-35			
	4					10			
	5	4.1	12			10		21	
	6	S				14			
					End of Boring				
	4								
	5		13						
	7								
	-20								

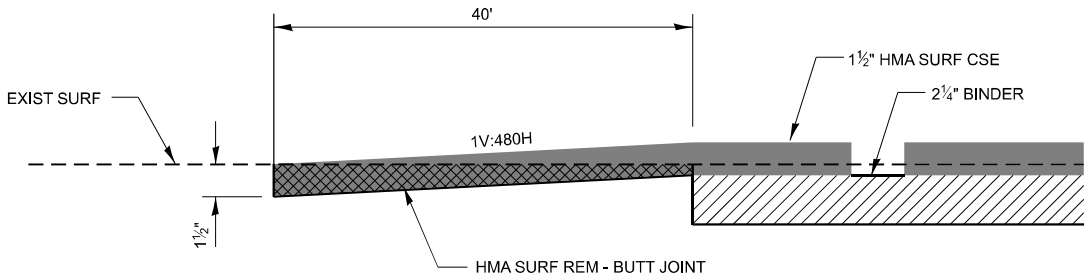
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)

FILE NAME: \\hrgreen.com\hring\Data\2023\2302696.03\CAD\CADsheets\053-2548-2597-D366N23-shl-struct.dgn



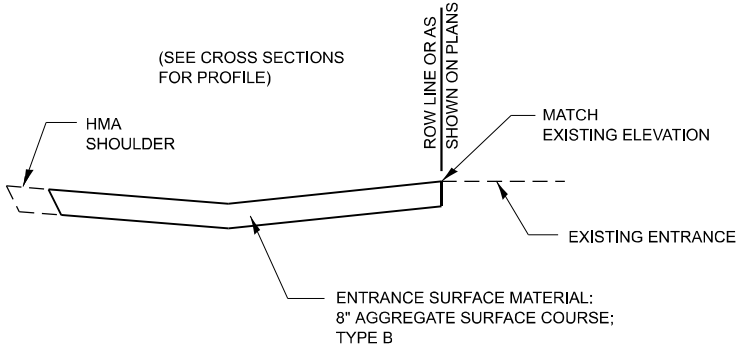
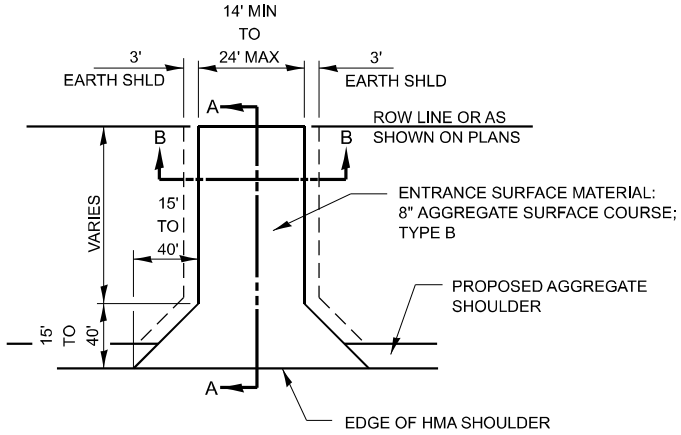
NOTE:
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE,
THEN A SAW CUT SHALL BE USED TO MANUFACTURE
A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL.
THE ENGINEER SHALL BE THE SOLE JUDGE
CONCERNING THE USE OF THIS DETAIL

HMA BUTT JOINT SAW CUTS

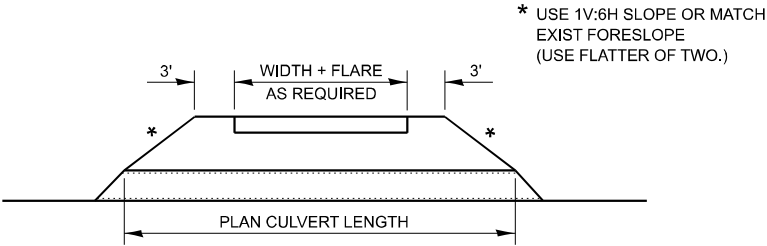


DESIGNER NOTE:
MODIFY TO MEET PROJECT SPECIFIC THICKNESS AND DIMENSIONS IF NEEDED

HMA BUTT JOINT

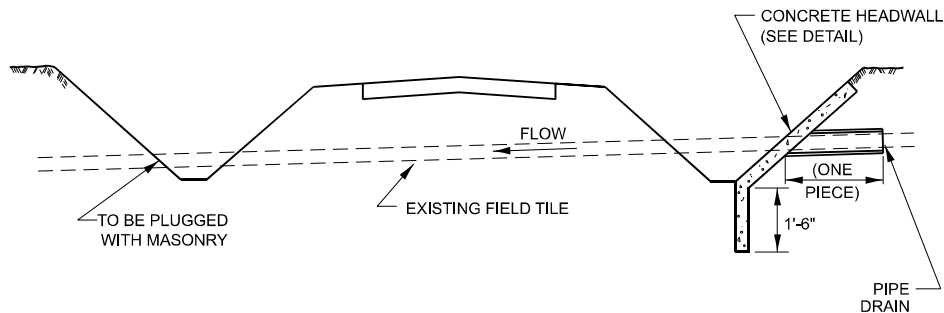
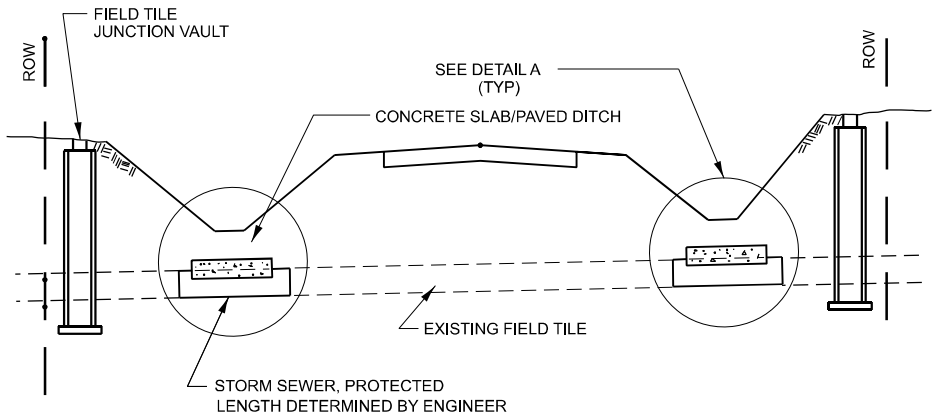


SECTION A-A

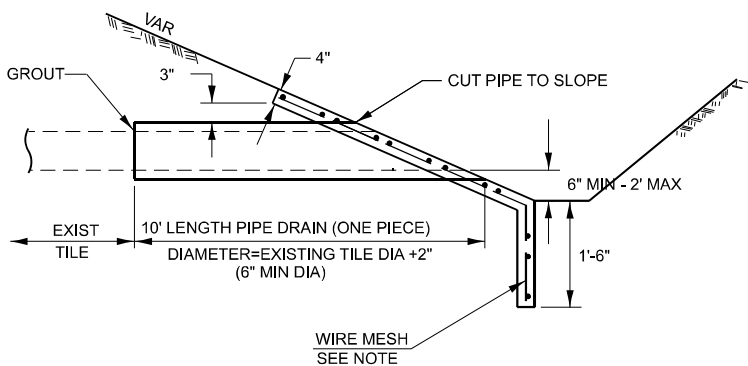
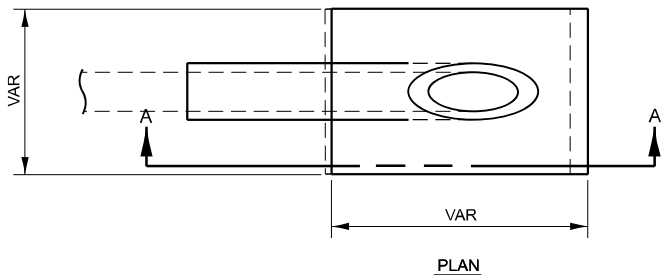


SECTION B-B

FIELD ENTRANCE DETAIL

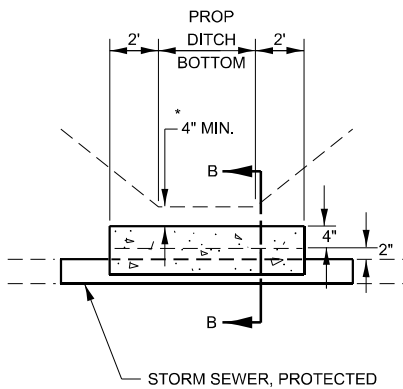


FIELD TILE REPLACEMENT



SECTION A-A

CLASS SI CONCRETE HEADWALLS



DETAIL A

NO SCALE

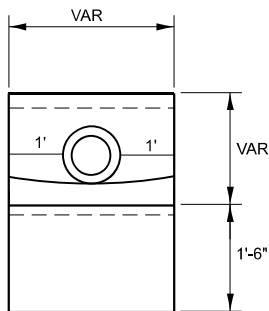
* IF A 4" COVER CAN NOT BE PROVIDED A PAVED DITCH SHALL BE CONSTRUCTED AS SHOWN IN DETAIL C.

NOTES

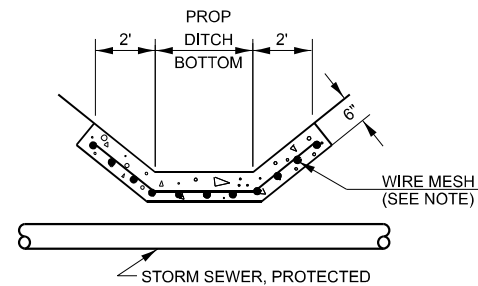
1. WIDTH OF CONCRETE SLAB SHALL BE THE SAME AS THE TRENCH WIDTH IN ACCORDANCE WITH SECTION 550 OF THE STD. SPECIFICATIONS, OR 3' MIN.
2. CONCRETE FOR SLAB, HEADWALL AND PAVED DITCH SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR "MISCELLANEOUS CONCRETE."
3. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ FT

NOTES

1. ANY STORM SEWER OR FIELD TILE OUTLET INTO A DITCH SHALL HAVE A HEADWALL BUILT IN ACCORDANCE WITH THIS DETAIL.
2. COST OF FURNISHING AND INSTALLING WIRE MESH SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR MISCELLANEOUS CONCRETE. WIRE MESH TO WEIGH NOT LESS THAN 58# PER 100 SQ FT

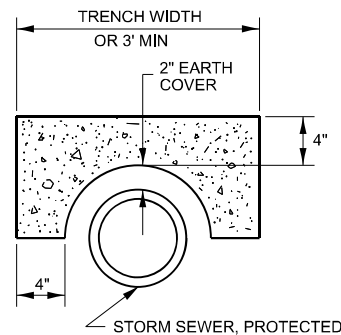


END VIEW

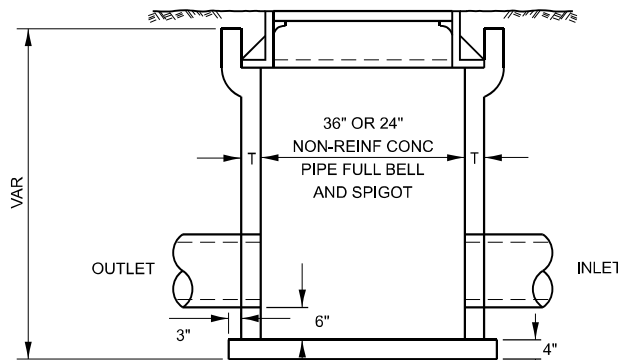


DETAIL C

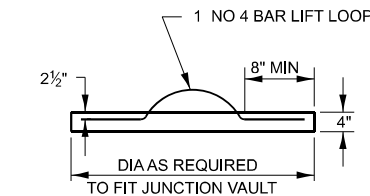
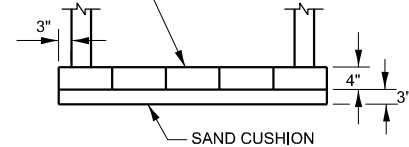
NO SCALE



SECTION B-B



CLASS SI CONCRETE OR PRECAST REINFORCED CONCRETE SLABS NOT LESS THAN 12" WIDE

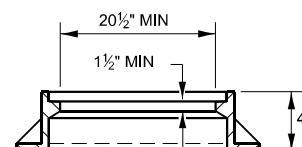
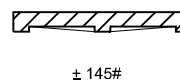
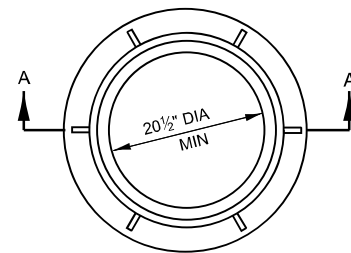


FIELD TILE JUNCTION VAULT

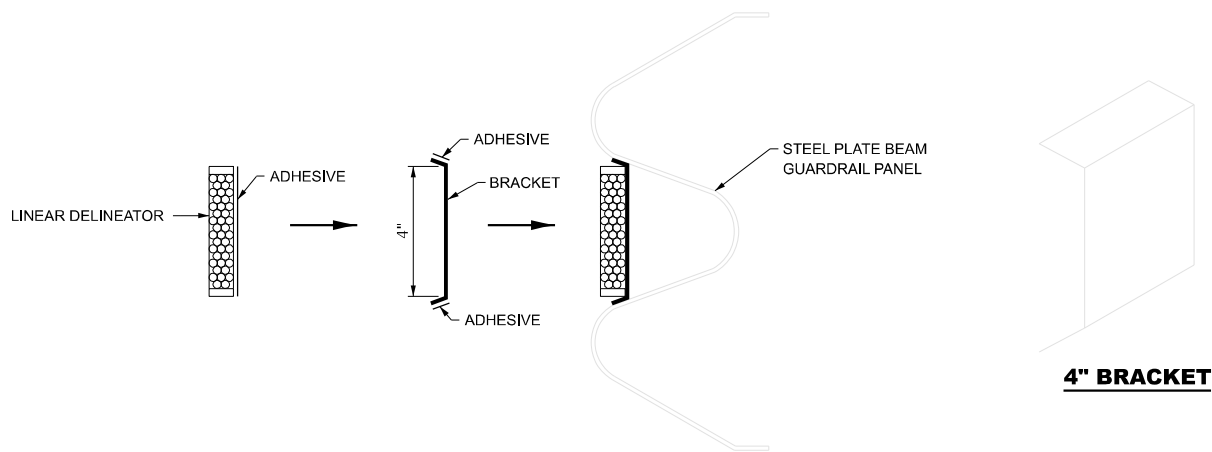
ALTERNATE MATERIALS FOR WALLS	T
PRECAST REINFORCED CONCRETE RISERS	4"
CONCRETE MASONRY UNIT	5"
MONOLITHIC CONCRETE	6"

NOTES

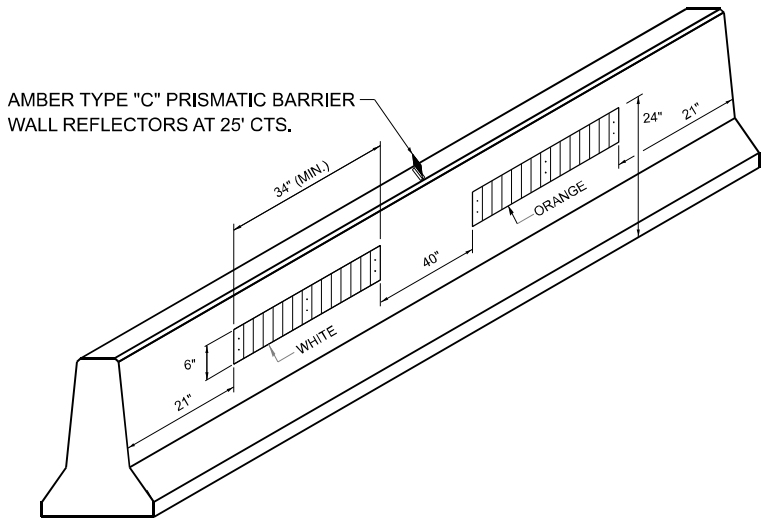
1. THE CONTRACT UNIT PRICE FOR FIELD TILE JUNCTION VAULT SHALL INCLUDE THE COST OF FURNISHING AND PLACING THE FRAME AND GRATE OR PRECAST CONCRETE LID AND WHEN REQUIRED, THE SAND CUSHION.
2. ALL FIELD TILE JUNCTION VAULTS SHALL BE 2'-0" IN DIAMETER UNLESS OTHERWISE NOTED ON THE PLANS.



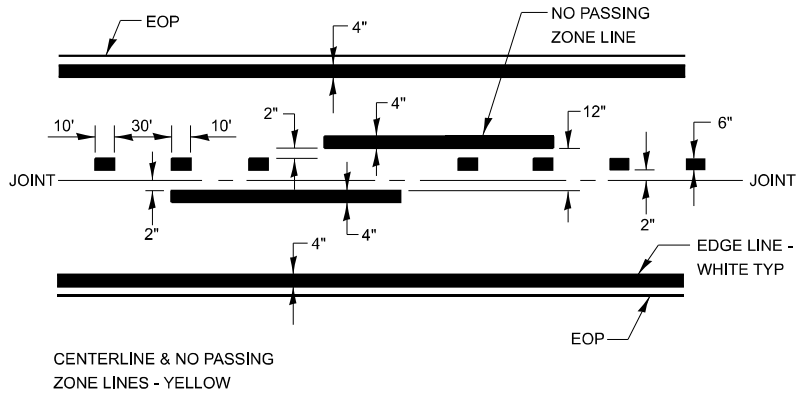
SECTION A-A



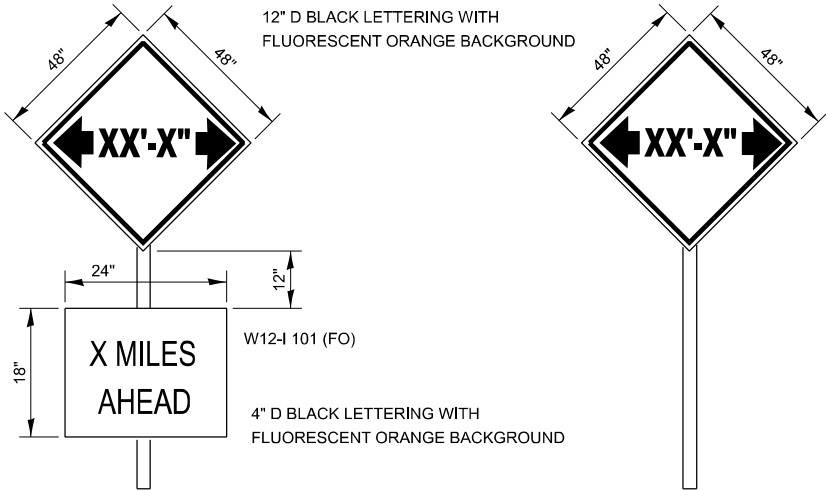
LINEAR DELINEATOR APPLICATION TO STANDARD GALVANIZED GUARDRAIL
LINEATOR DELINEATOR SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS



**LINEAR DELINEATOR PANELS
FOR TEMPORARY CONCRETE BARRIER**



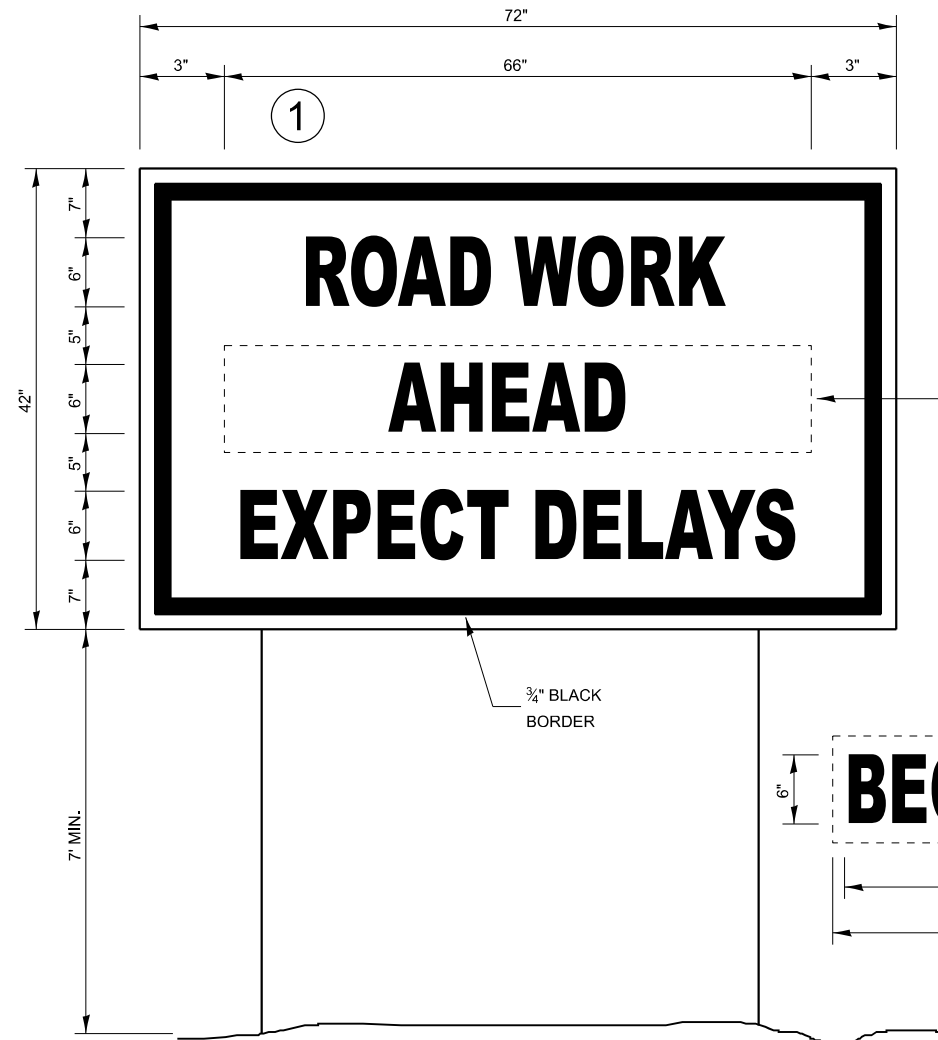
PAVEMENT MARKING



TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

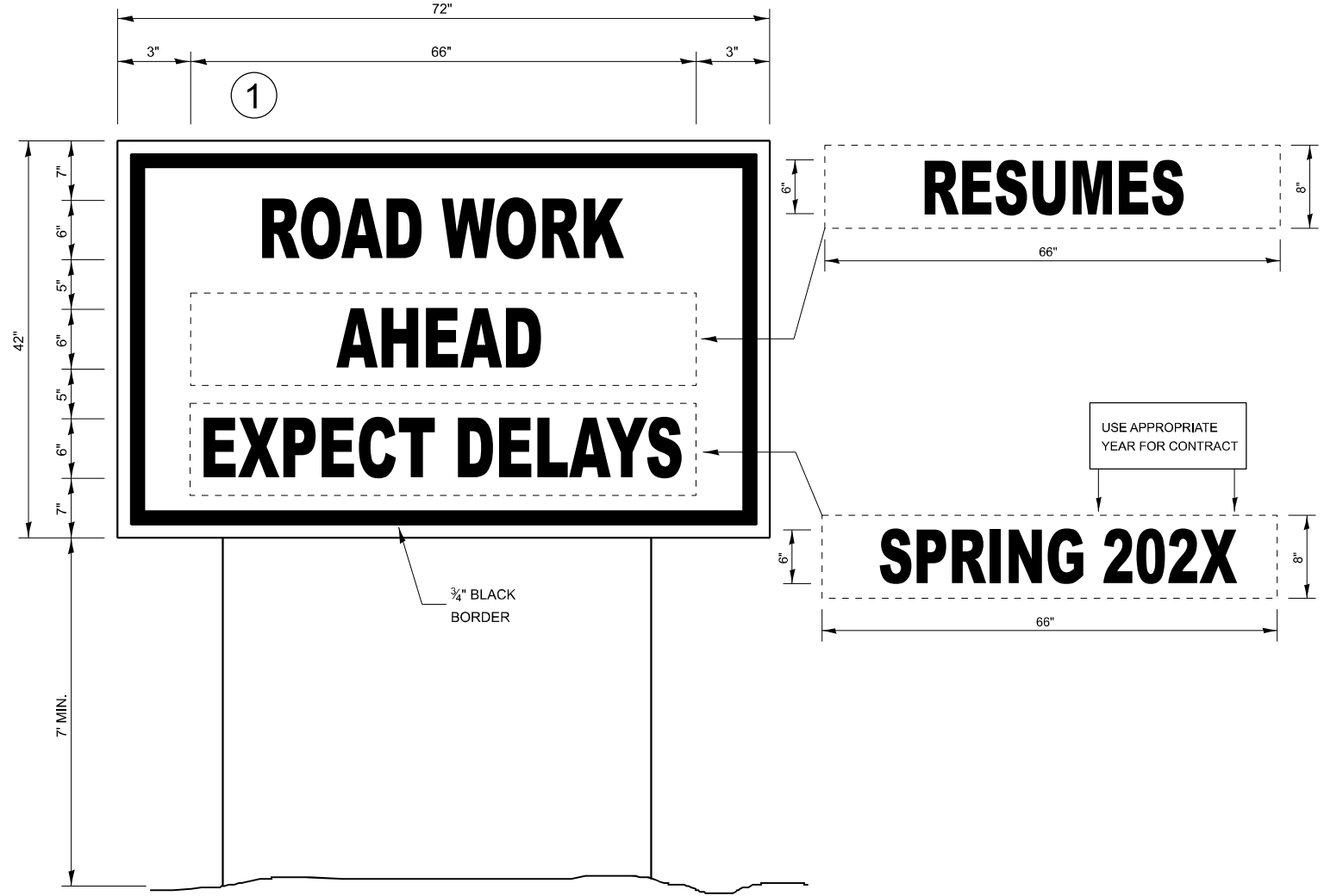
WIDTH RESTRICTION SIGNING DETAILS



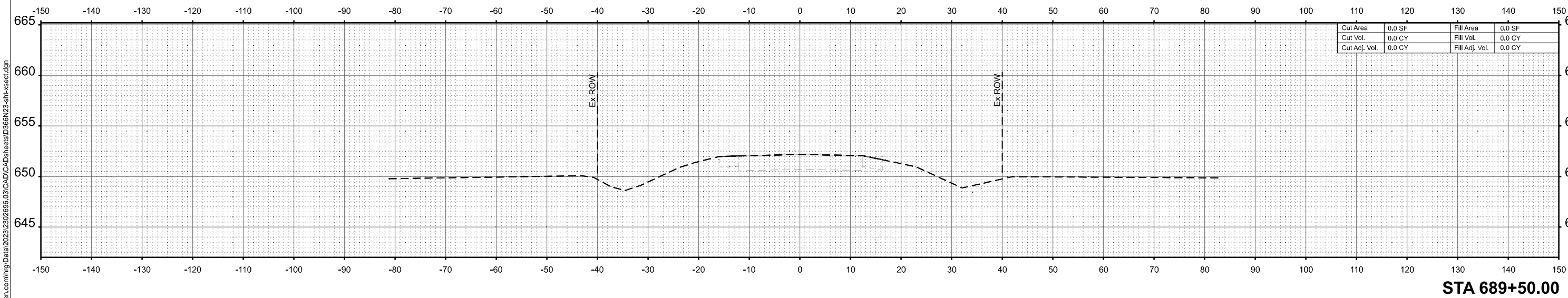
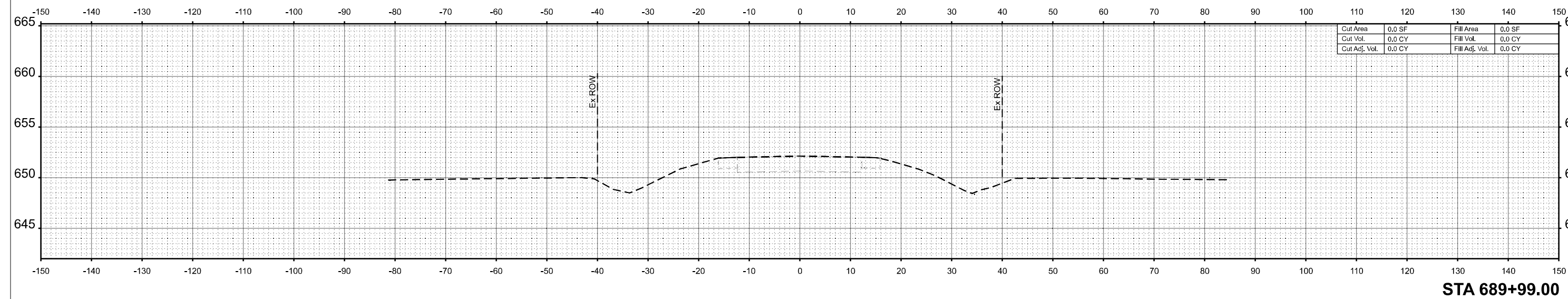
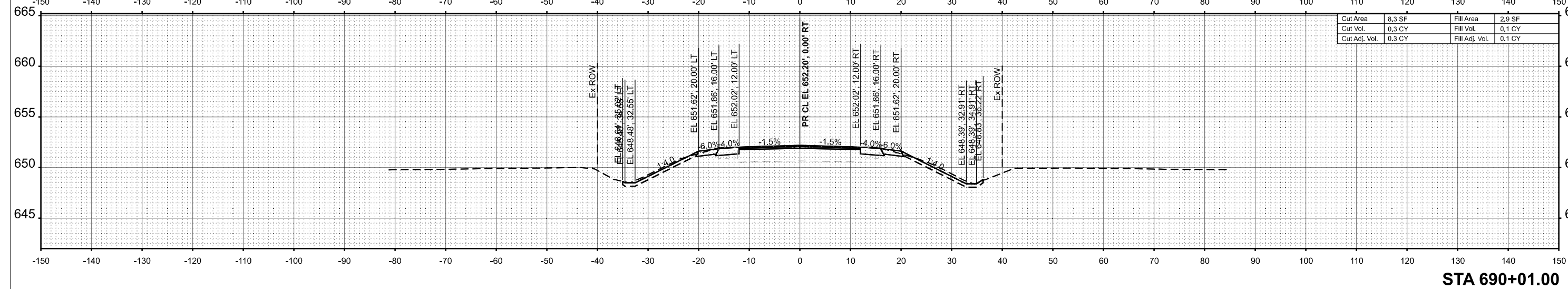
TEMPORARY INFORMATION SIGNING

NOTES:

- USE 6" D BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
- ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
- ERECT SIGN①WITH INSTALLED PANEL②A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
- REMOVE PANEL②ON THAT DATE.
- SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT

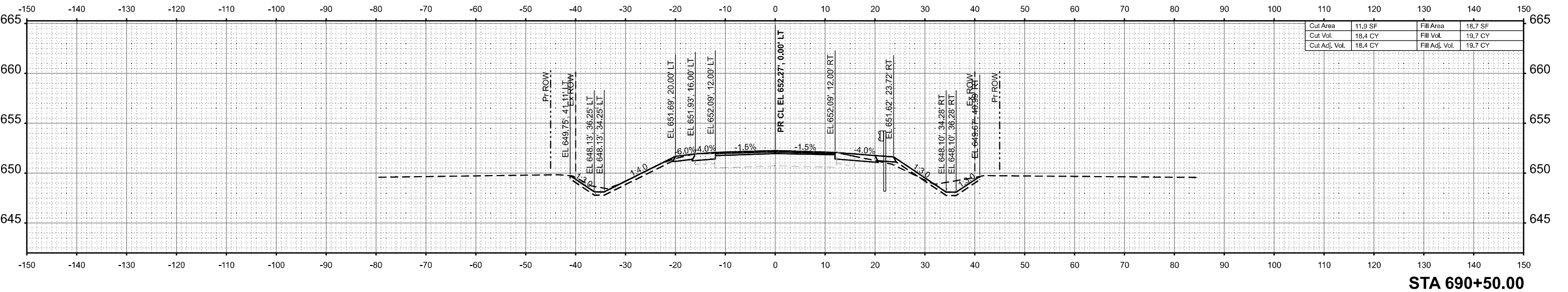
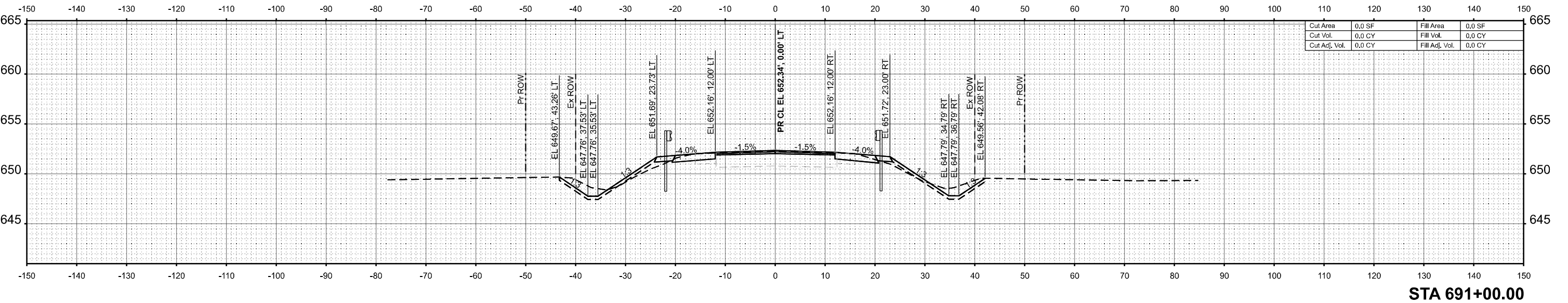


WINTER SHUT DOWN SIGNING

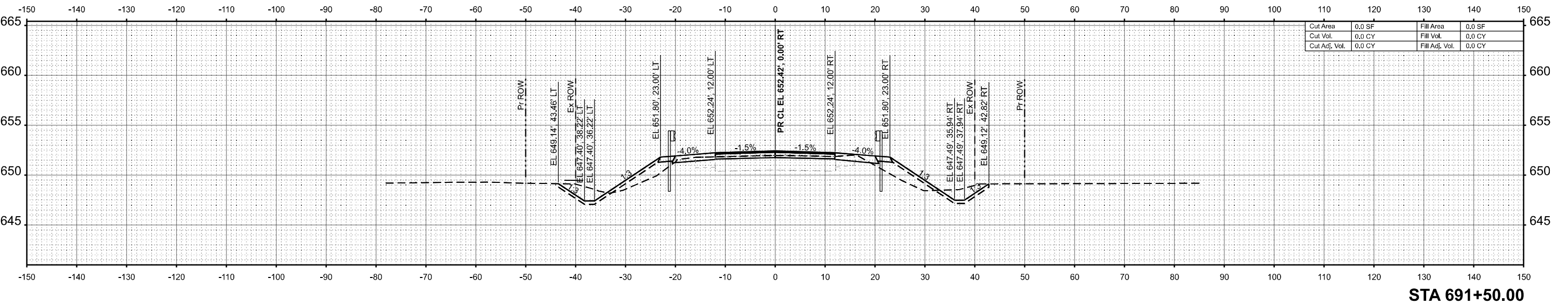
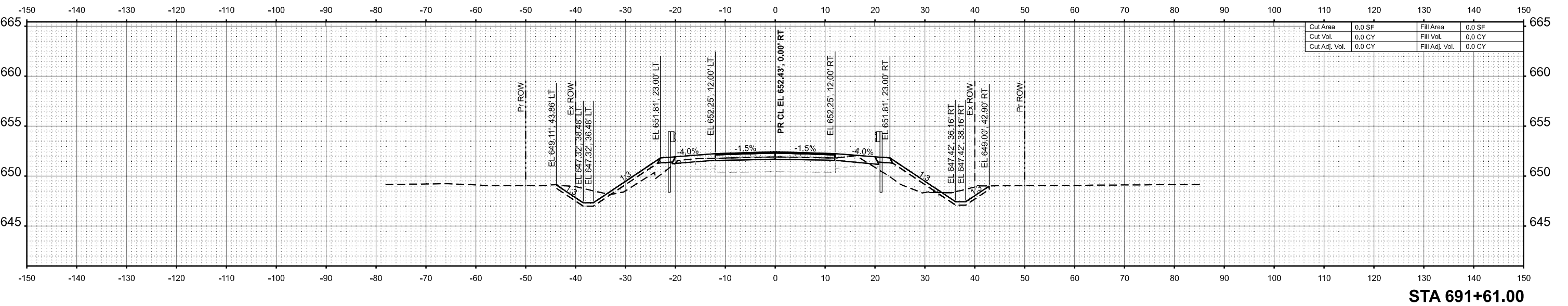


MODEL: SH - 1
FILE NAME: \\hrgreen.com\hrg\Draws\2023\202696.03\CAD\CADsheets\ID366N23-sh1-xsec.dgn

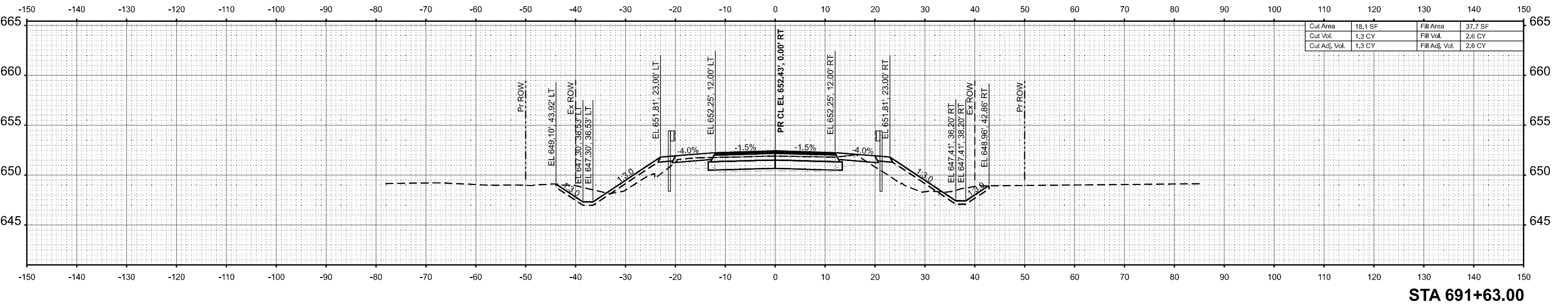
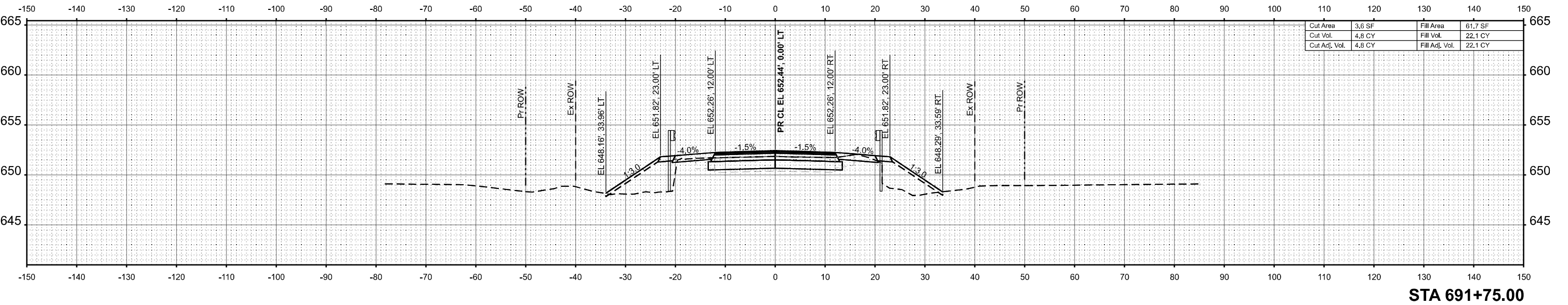
MODEL: SH-2
FILE NAME: \\hrgreen.com\hrg\Draws\2023\202696.03\CAD\CADsheets\ID365N23-sh1-xsec.dgn



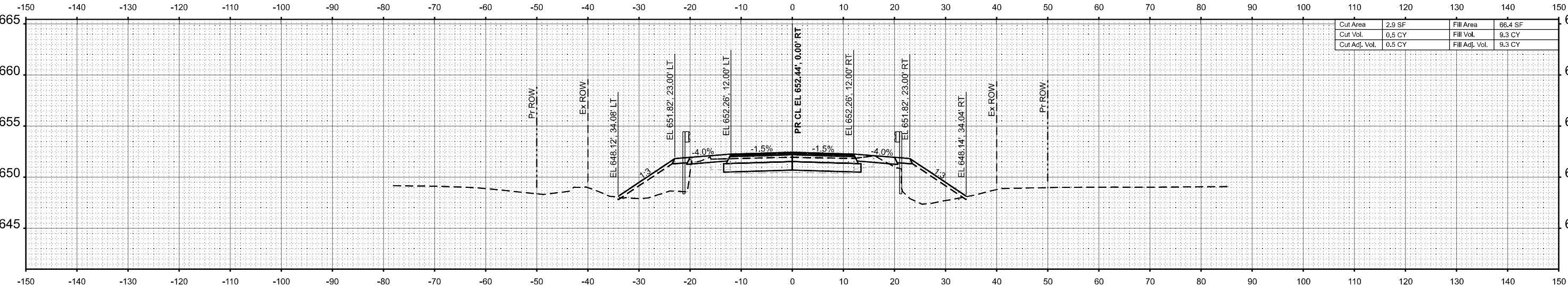
MODEL: SH-3
FILE NAME: \\hrgreen.com\hrg\Draws\2023\202696.03\CAD\CADsheets\ID366N23-sh1-xsec1.dgn



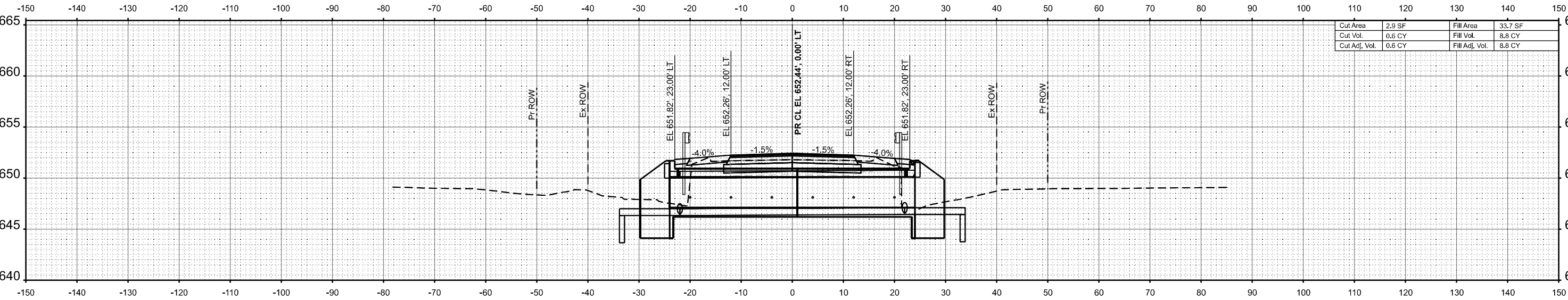
MODEL: SH-4
FILE NAME: \\hrgreen.com\hrg\Draws\2023\202696.03\CAD\CAD sheets\ID366N23-sh4-xsec.dgn



MODEL: SH-5
FILE NAME: \\hrgreen.com\hrg\Draws\2023\2302696.03\CAD\CADsheets\366N23-sh1-xsec.dgn

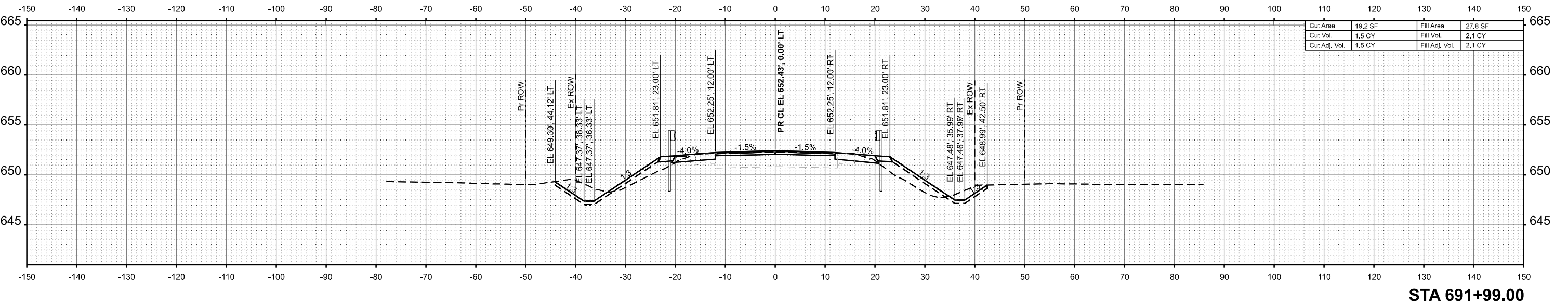


STA 691+85.00

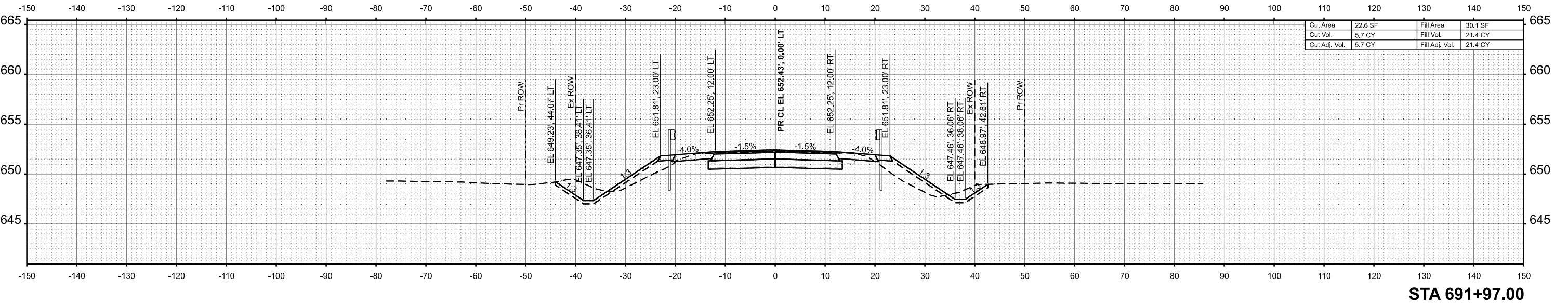


STA 691+80.00

MODEL: SH-6
FILE NAME: \\hrgreen.com\hrg\Draws\2023\202696.03\CAD\CADsheets\ID366N23-sh1-xsec.dgn

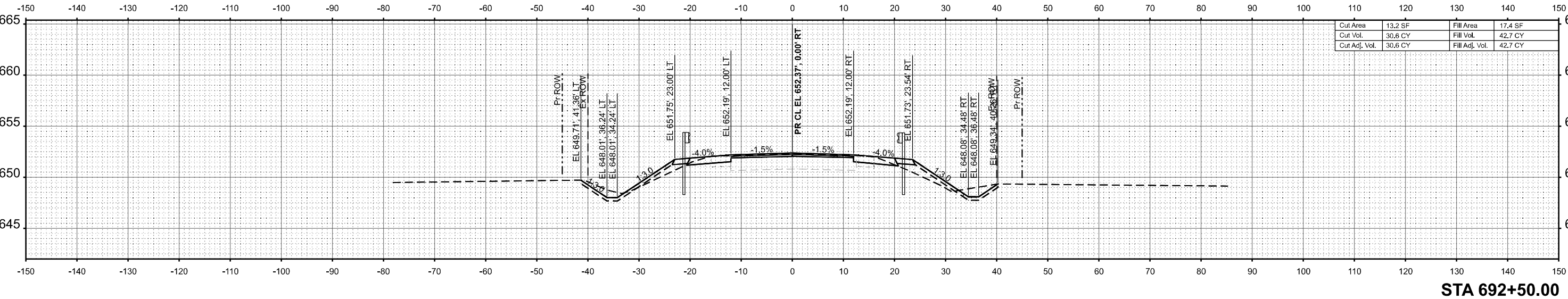
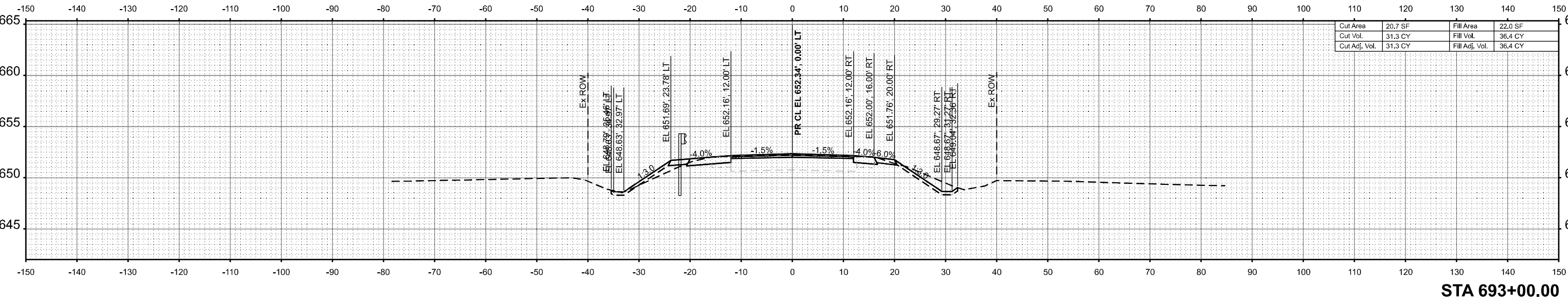
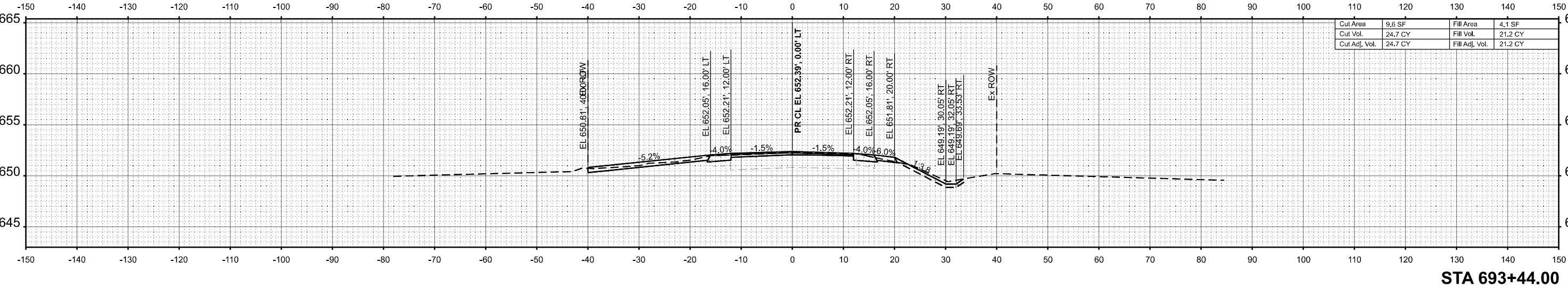


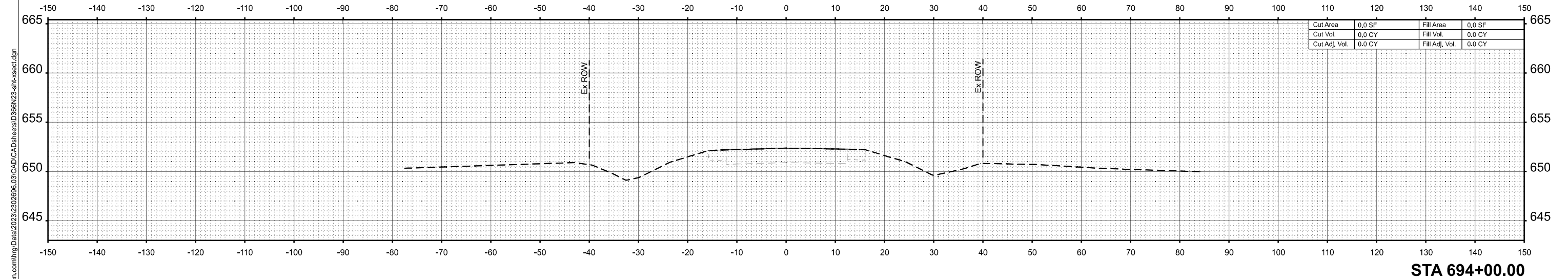
STA 691+99.00



STA 691+97.00

MODEL: SH-7
FILE NAME: \\hrgreen.com\hrg\Draws\2023\2302696.03\CAD\CAD sheets\ID366N23-sh1-rsec.dgn





MODEL: SH-9
FILE NAME: \\hrgreen.com\hrg\Draws\2023\202696.03\CAD\CADsheets\ID366N23-sh1-xsec.dgn



HRGreen.com

Illinois Professional Design Firm
#184-001322

USER NAME = amiller	DESIGNED - AJM	REVISED -
	DRAWN - AJM	REVISED -
	CHECKED - JMR	REVISED -
PLOT DATE = 3/3/2026	DATE - 11/14/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL ROUTE 116

SCALE: 1"=10'

SHEET 9	OF 9 SHEETS	STA.	TO STA.
---------	-------------	------	---------

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
673	(112)CR-2548	LIVINGSTON	41	41
CONTRACT NO. 66N23				
ILLINOIS		FED. AID PROJECT		