

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 662 (IL 4)
SECTION (DX) SW & (E)RS-2
PROJECT STP-0662(071)
MACOUPIN COUNTY
C-96-017-17

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(DX) SW & (E)RS-2	MACOUPIN	39	1
		ILLINOIS	CONTRACT NO. 72J55	

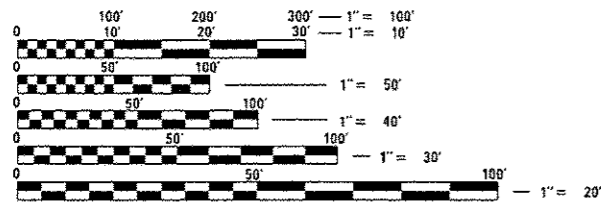
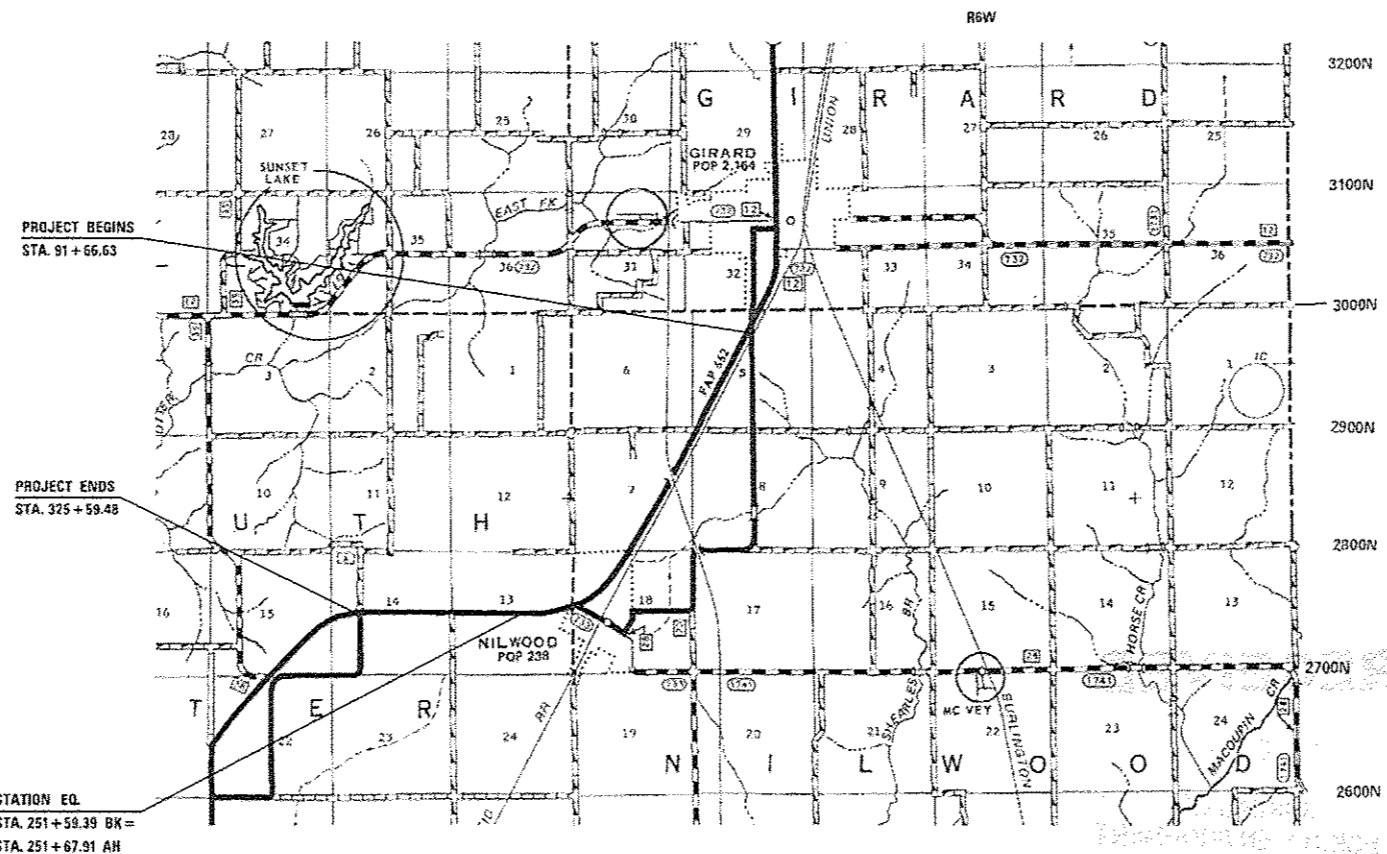
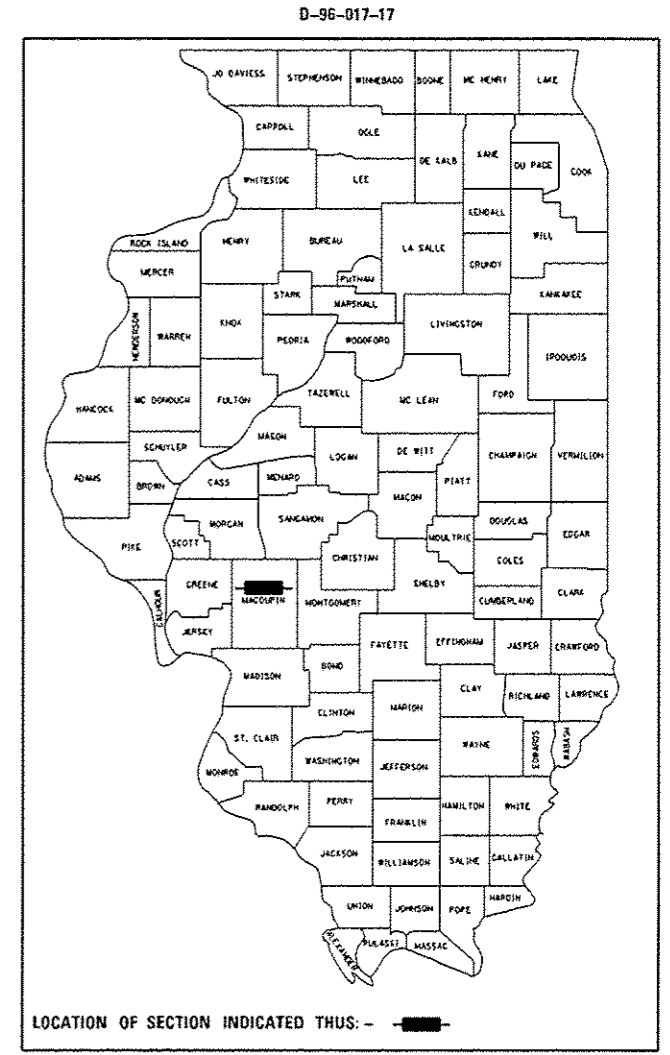
FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY CLASSIFICATION

F.A.P. Route 662 (IL 4)
10.2 MI. S. OF CAMBRIDGE RD S. OF GIRARD TO E. OF DONALDSON RD/JONES RD.)

A.D.T. -2,771 (2015) PV = 92.64%
PROJECTED A.D.T. -3,381 (2035) SU = 4.50%
DESIGN SPEED -50-60 MPH MU = 2.89%
POSTED SPEED -45-55 MPH

CLASSIFICATION: MINOR ARTERIAL
CRS: 3.7 & 4.7 (2016)



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

STATION EQ.
STA. 251+59.39 BK =
STA. 251+67.91 AH

GROSS LENGTH = 23,384.33 FT. = 4.43 MILES
NET LENGTH = 23,354.33 FT. = 4.42 MILES

ACTING TEAM ENGINEER: JAY EDWARDS (217) 785-0597
TEAM MANAGER: JONATHAN COX (217) 782-1378

CONTRACT NO. 72J55

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED 3 February 2017
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS REGION ENGINEER

Mar 24 2017
[Signature]
MAUREEN M. ADDIS
ENGINEER OF DESIGN AND ENVIRONMENT

Mar 24 2017
[Signature]
DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS

STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
406201-01	MAILBOX TURNOUT
424001-09	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C & D PATCHES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-03	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
542401-02	METAL END SECTION FOR PIPE CULVERTS
642006	SHOULDER RUMBLE STRIPS, 8 INCH
701001-02	OFF ROAD MOVING OPERATIONS 2L, 2W MORE THAN 15' AWAY (CULVERT WORK)
701006-05	OFF ROAD MOVING OPERATIONS 2L, 2W 15' TO 24' FROM PAVEMENT EDGE (SHOULDER & CULVERT WORK)
701011-04	OFF ROAD MOVING OPERATIONS 2L, 2W DAY ONLY (SHOULDER WORK)
701201-04	LANE CLOSURE 2L, 2W DAY ONLY, FOR SPEEDS > 45MPH (PATCHING, & CULVT.)
701301-04	LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS (MARKING PATCHES & CLEAN-UP)
701306-03	LANE CLOSURE 2L, 2W SLOW MOVING OPERATIONS - DAY ONLY FOR SPEEDS ≥ 45MPH (HMA SURF, SHDR OPS, & MILLING)
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY (PAVEMENT MARKING & CLEANUP)
701801-06	SIDEWALK CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKING
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

THE ITALICIZED TEXT DESCRIBING STANDARDS ARE GENERAL USES FOR THE APPLICATION SPECIFIED AND NOT LIMITED TO THEM

INDEX OF SHEETS

1	COVER SHEET
2 - 3	INDEX OF SHEETS, LISTS OF STANDARDS, GENERAL NOTES AND COMMITMENTS
4 - 8	SUMMARY OF QUANTITIES (5)
9 - 14	SCHEDULE OF QUANTITIES (6)
15 - 17	TYPICAL SECTIONS (3)
18	BENCHMARK SHEET
19 - 26	PLAN SHEETS (1L 4) (8)
27 - 29	CULVERT DETAILS (3)
30 - 31	GENERAL PLAN & ELEVATION & HEADWALL DETAIL SHEETS (2)
32	SIDEWALK DETAIL
33	SUPERELEVATION DETAIL
34-35	ENTRANCE AND SIDEROAD DETAILS (2)
36-39	CULVERT CROSS SECTIONS (4)

DISTRICT SIX	
EXAMINED	January 11 th 20 17
<i>[Signature]</i>	
OPERATIONS ENGINEER	
EXAMINED	January 10 20 17
<i>[Signature]</i>	
PROJECT IMPLEMENTATION ENGINEER	
EXAMINED	January 24 20 17
<i>[Signature]</i>	
PROGRAM DEVELOPMENT ENGINEER	

REVISIONS

NO. 1

DATE

BY

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, LISTS OF STANDARDS,
GENERAL NOTES, AND COMMITMENTS

FILE NAME *	USER NAME * <i>cdkjm</i>	DESIGNED - JWC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, LISTS OF STANDARDS, GENERAL NOTES, AND COMMITMENTS	SCALE:	SHEET 1 OF 2 SHEETS	STA. TO STA.	F.A.P. RTE. 662	SECTION (DX) SW & (E) RS-2	COUNTY MACOUPIN	TOTAL SHEETS 39	SHEET NO. 2
Default	Documents\1007 Offices\District 6\Projects\0672\DRAWING\DATA\CAD\DWG\0672J55-shi-genc	CHECKED - JWC	REVISED -										
	PLOT SCALE = 40.0000' / in.	DATE -	REVISED -										
	PLOT DATE = 2/2/2017												

[ILLINOIS] FED. AID PROJECT

GENERAL NOTES

- ① WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSES OR OTHERWISE REFERENCED THEIR LOCATION.
- ② THE NOMINAL THICKNESS FOR BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS, STANDARDS, SCHEDULES, OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEM SHALL NOT BE LESS THAN 90 PERCENT OF THE NOMINAL THICKNESS AT ANY LOCATION.
- ③ THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATION OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- ④ ANY REFERENCE TO A STANDARD IN THE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION, AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THE PLANS.
- ⑤ THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCED NOTICE IS REQUIRED. ANY DAMAGE TO THE UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTORS EXPENSE, INCLUDING TEMPORARY REPAIRS WHICH MAY BE REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS.
- ⑥ THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATIONS, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR, REROUTING, DISCONNECTION, PROTECTION, ...ETC OF ANY UTILITIES MUST BE COORDINATED BETWEEN CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDOUS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITIES REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ⑦ THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE:

LOCATION:	IL 4 MAINLINE		
MIXTURE USED:	LEVELING BINDER	HMA SURFACE	HMA SHOULDER
PG:	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIX COMPOSITION:	IL 9.5 FG	IL 9.5	IL 9.5
FRICTION AGGREGATE:	N/A	MIX "C"	N/A
QUALITY MANAGEMENT:	OCP	OCP	OC/OA
SUBLOT SIZE:	1000 TONS	1000 TONS	N/A

NOTES: LEVELING BINDER (SPECIAL) SHALL BE PG 58-28
 THE DENSITY PAY FACTOR FOR IL-9.5FG LEVELING ABINDER WILL BE 100%. CORES SHALL BE OBTAINED AT THE INTERVALS REQUIRED BY THE SPECIAL PROVISION FOR HMA-QUALITY CONTROL FOR PERFORMANCE FOR INFORMATION ONLY.

- ⑧ IN ADDITION TO FIELD AND AERIAL SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- ⑨ THE EXACT LOCATIONS AND SIZES OF PAVEMENT PATCHES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- ⑩ THE APPROXIMATE AVERAGE THICKNESS OF 6" IS USED FOR CALCULATING THE QUANTITY FOR AGGREGATE SHOULDERS, TYPE B.
- ⑪ NO PASSING ZONES TO BE FIELD VERIFIED BY THE BUREAU OF OPERATIONS. THE RESIDENT ENGINEER SHALL NOTIFY THE BUREAU OF OPERATIONS AT LEAST 14 DAYS PRIOR TO PLACEMENT OF FINAL PERMANENT PAVEMENT MARKING. (PH: 217-785-7314)
- ⑫ EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
- ⑬ PROPOSED UPPER AND LOWER LANDING OF THE SIDEWALK RAMPS ARE A MAX OF 2% (1.5% DESIGN & BUILD) ACROSS THE SIDEWALK AND 8.3% (8.0% DESIGN & BUILD) ALONG THE SIDEWALK RAMP.
- ⑭ THE SIDEWALK RAMPS SHALL BE BUILT TO THE LINES AND ELEVATIONS STATED ON THE PLAN SHEETS. SEE SIDEWALK STANDARDS ON SHEET #2 FOR ADDITIONAL INFORMATION.
- ⑮ THE CONTRACTOR CAN CHOOSE WHICH SIDE OF THE ROADWAY THE LEVELING BINDER (MACHINE METHOD), SPECIAL WILL BE ON.
- ⑯ MINIMIZE THE CONSTRUCTION LIMITS ALONG ROADSIDE PRAIRIE INVENTORY SITE #29, (1.5 MI. N. OF NILWOOD) AS MUCH AS POSSIBLE.

NO PARKING OF VEHICLES OR STORAGE OF EQUIPMENT OR MATERIALS SHOULD OCCUR IN ROADSIDE PRAIRIE INVENTORY SITE #29 ALONG THE EAST SIDE OF IL 4.

RE -SEED THE AREA DISTURBED BY CONSTRUCTION, WITHIN ROADSIDE PRAIRIE INVENTORY SITE #29 WITH A NATIVE MIX (CLASS 4 AND/OR 5), WITH PREFERENCE FOR CLASS 5C (MONARCH AND POLLINATOR MIXTURE). TEMPORARY SEEDING SHOULD BE CL7. ALL SEEDING AND MULCHING SHALL BE IN ACCORDANCE WITH SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SEEDING WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE PAID FOR UNDER GRADING & SHAPING DITCHES.

- ⑰ SURFACE TEST ACCORDING TO ARTICLE 406.11 ARE NOT REQUIRED ON THE LOWER LIFT OF THE SURFACE MIX SHOWN ON TYPICALS #2-#4.

COMMITMENTS

- ① THE RESIDENT ENGINEER SHALL CONTACT STUDIES AND PLANS CONCERNING ANY MAJOR PLAN CHANGE. TO MAKE SURE NO PREVIOUS COMMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN AND ALLOW AN IMPROVED DESIGN FOR FUTURE PROJECTS.

RATES OF APPLICATION TABLES

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

BITUMINOUS MATERIALS (PRIME COAT):	0.05 LBS / SQ FT (MILLING)
	0.025 LBS / SQ FT (HMA LIFTS)
HMA SURFACE MIX C / BINDER (112 LBS):	0.056 TON / SQ YD • in
AGGREGATE SHOULDERS:	2.05 TON / CU YD
NITROGEN FERTILIZER NUTRIENT:	90 LBS / ACRE
PHOSPHOROUS FERTILIZER NUTRIENT:	90 LBS / ACRE
POTASSIUM FERTILIZER NUTRIENT:	90 LBS / ACRE
AGRICULTURE GROUND LIMESTONE:	2 TON / ACRE
MULCH:	2 TONS / ACRE

FILE NAME =	USER NAME = Verenskif	DESIGNED - JWC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, LISTS OF STANDARDS, GENERAL NOTES, AND COMMITMENTS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
						662	(DX) SW & (E) RS-2	MACOUPIN	39	3	
						CONTRACT NO. 72J55					
						ILLINOIS FED. AID PROJECT					
Default	PLOT DATE = 2/3/2017	DATE -	REVISED -	SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.				

6-0774-0100
 80% FEDERAL
 20% STATE
 ROADWAY
 0005
 RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	RURAL
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	4	4
54214515	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30"	EACH	8	8
54215553	METAL END SECTIONS 18"	EACH	2	2
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	42,772	42,772
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4
67100100	MOBILIZATION	LSUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	8,216	8,216
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	50 FT	780	780
70300230	TEMPORARY PAVEMENT MARKING - LINE 5"	FOOT	53,568	53,568
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	53,568	53,568
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	294	294

* SPECIALTY ITEM

FILE NAME *	USER NAME * Vorenski	DESIGNED - JWC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\l\894EBID\INTEG\Illinois.gov\PIDOT\Documents\DOT Offices\District 6\Projects\0672J55\0672J55-000.dwg		CHECKED - JWC	REVISED -		662	(DX) SW & (E) RS-2	MACOUPIN	39	7				
Default	PLOT SCALE * 100.0000 1" = 100'	DATE -	REVISED -		SCALE:	SHEET 4 OF 5 SHEETS	STA.	TO STA.	CONTRACT NO. 72J55				
	PLOT DATE * 2/3/2017								ILLINOIS FED. AID PROJECT				

HMA SURFACE REMOVAL

LOCATION	LENGTH (FOOT)	WIDTH (FOOT)	HMA SURF REM BJ (SQ YD)	HMA SURF REM 3/4" (SQ YD)
FAP 662 (IL 4)				
91+66.63 TO 91+81.63	15.0	30.0	50.00	
91+81.63 TO 251+59.39	15,977.8	30.0		53,259.20
199+91.00 TO 200+21.00	30.0	30.0	100.00	
STA EQ #1 STA. 251+59.39 (BK) = STA. 251+67.91 (AH)				
251+67.91 TO 325+46.00	7,378.1	30.0		24,593.63
325+46.00 TO 325+61.00	15.0	30.0	50.00	
319+70.00 TO 320+00.00	30.0	30.0	100.00	
INCIDENTAL HMA SURFACING				
ENTRANCES (HMA)			89.00	
SIDEROADS			1,632.28	
TOTAL =			2,021	77,853

•FOR SECOND LIFT OF SURFACE COURSE

TEMPORARY RAMP

LOCATION	LENGTH (FOOT)	WIDTH (FOOT)	TEMP RAMP (SQ YD)
FAP 662 (IL 4)			
91+76.63 TO 91+81.63	5.0	30.0	16.67
200+16.00 TO 200+21.00	5.0	30.0	16.67
STA EQ #1 STA. 251+59.39 (BK) = STA. 251+67.91 (AH)			
319+70.00 TO 319+75.00	5.0	30.0	16.67
325+46.00 TO 325+51.00	5.0	30.0	16.67
TOTAL =			67

•FOR SECOND LIFT OF SURFACE COURSE

AGGREGATE SHOULDER, TYPE B

LOCATION	LENGTH (FOOT)	WIDTH (FOOT)	VOLUME (CU YD)	AGG SHLD TB (TON)
FAP 662 (IL 4)				
91+66.63 TO 251+59.39	15,992.76	4.00	2,369.30	4,501.67
STA EQ #1 STA. 251+59.39 (BK) = STA. 251+67.91 (AH)				
251+67.91 TO 325+61.00	7,393.09	4.00	1,095.27	2,081.02
316+38.00 RT (FE)	37.00	3.00	4.11	7.81
TOTAL =				6,590

NOTE: AVG THICKNESS OF 6" WAS USED TO CALCULATE TONNAGE.

PAVING SCHEDULE

LOCATION	LENGTH (FOOT)	WIDTH (FOOT)	LEV BIND MM N50 (TON)	LEV BIND SPL (TON)	HMA SURF CRSE MIX C N50 (TON)	HMA SURF CRSE MIX C N50 (TON)
FAP 662 (IL 4)						
91+66.63 TO 91+81.63	15.0	22.0			3.08	
91+81.63 TO 91+96.63	15.0	22.0	0.39	0.39	3.08	
91+96.63 TO 199+91.00	10,794.4	22.0	554.11	554.11	2,216.44	
199+91.00 TO 200+21.00	30.0	22.0	1.54	1.54	6.16	6.16
200+21.00 TO 251+59.39	5,138.4	22.0	263.77	263.77	1,055.08	1,055.08
STA EQ #1 STA. 251+59.39 (BK) = STA. 251+67.91 (AH)						
251+67.91 TO 319+71.00	6,803.1	22.0	349.23	349.23	1,396.90	1,396.90
319+70.00 TO 320+00.00	30.0	22.0	1.54	1.54	6.16	6.16
320+00.00 TO 325+31.00	531.0	22.0	27.26	27.26	109.03	
325+31.00 TO 325+46.00	15.0	22.0	0.39	0.39	3.08	
325+46.00 TO 325+61.00	15.0	22.0			3.08	
TOTAL =			1,198	1,198	4,802	2,464
						7,267

BITUMINOUS MATERIALS (TACK COAT)

LOCATION	LENGTH (FOOT)	WIDTH (FOOT)	AREA (SQ FT)	BIT MAT PC (MILLING) (POUND)	BIT MAT PC (HMA LIFT) (POUND)
FAP 622 (IL 4)					
91+66.63 TO 199+91.00	10,824	30	324,731	16,236.56	8,118.28
199+91.00 TO 251+59.39	5,168	30	155,052	15,505.17	7,752.59
STA EQ #1 STA. 251+59.39 (BK) = STA. 251+67.91 (AH)					
251+67.91 TO 320+01.00	6,833	30	204,993	20,499.27	10,249.64
320+01.00 TO 325+61.00	560	30	16,800	840.00	420.00
INCIDENTAL HMA SURFACING					
ENTRANCES (HMA)			801.00	40.05	20.03
SIDEROADS			14,690.50	734.53	367.26
TOTAL =				53,856	26,928
					80,784

•NOTE: INCLUDES QUANTITY FOR SECOND LIFT OF SURFACE COURSE.

FILE NAME =	USER NAME = Verenskifa	DESIGNED - JWC	REVISED -
p:\IL084EBIDINTEG\illinois.gov\PIDOT\Documents\DOT Offices\District 6\Projects\0672\DRAWING\DATA\JWC\0672J55-sht-sched\		CHECKED - JWC	REVISED -
Default	PLOT DATE = 2/3/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(DX) SW & (E) RS-2	MACOUPIN	39	9
CONTRACT NO.			72J55	
ILLINOIS FED. AID PROJECT				

SHOULDER RUMBLE STRIPS, 8 INCH

LOCATION	LENGTH (FOOT)	SHLD RUMBLE STR 8 IN (FOOT)
FAP 662 (IL 4)		
91+66.63 TO 215+00.00	12,333.37	24,666.74
OMIT FR STA. 215+00.00 TO STA. 235+00.00		
235+00.00 TO 251+59.39	1,659.39	3,318.78
STA EQ #1 STA. 251+59.39 (BK)= STA. 251+67.91 (AH)		
251+67.91 TO 325+61.00	7,393.09	14,786.18
TOTAL =		42,772

PAVEMENT MARKING SCHEDULE

LOCATION	5"			
	PAINT PAVT MK (YELLOW) SKIP-DASH (FOOT)	PAINT PAVT MK (YEL-SLD) SB (FOOT)	PAINT PAVT MK (YEL-SLD) NB (FOOT)	PAINT PAVT MK (WHITE) SOLID (FOOT)
FAP 662 (IL 4)				
91+66.63 TO 180+00.00	2,208.3			17,666.7
180+00.00 TO 189+50.00	237.5		950.0	1,900.0
189+50.00 TO 251+59.39	1,552.3			12,418.8
STA EQ #1 STA. 251+59.39 (BK)= STA. 251+67.91 (AH)				
251+67.91 TO 325+61.00	1,848.3			14,786.2
SUBTOTAL =	5,846.5	0.0	950.0	46,771.7
			950.0	
TOTAL =			53,568	

SHORT-TERM PAVEMENT MARKING

LOCATION	LENGTH (FOOT)	SHORT TERM PVT MK (FOOT)	SHORT TERM PVT MK REM (SQ FT)
FAP 514 (IL 94)			
Milling			
91+66.63 TO 199+91.00	10,824.37	1,082.44	360.81
199+91.00 TO 251+59.39	5,168.39	516.84	172.28
STA EQ #1 STA. 251+59.39 (BK)= STA. 251+67.91 (AH)			
251+67.91 TO 320+01.00	6,833.09	683.31	227.77
320+01.00 TO 325+61.00	560.00	56.00	18.67
SUB-TOTAL =		2,338.59	779.53
Leveling Binder			
		2,338.59	
*HMA Surface Course			
		3,538.73	
TOTAL =		8,216	780

PREPARATION OF BASE

LOCATION	PREP. OF BASE (SQ YD)
FAP 662 (IL 4)	
TOTAL AREA FOR 8 ENTRANCES & SIDEROADS.	105.8
TOTAL =	106

RAISED REFLECTIVE PAVEMENT MARKING

LOCATION	RAISED REFL PM REMOV (EACH)	RAISED REFL PAVT MK (EACH)
FAP 514 (IL 94)		
91+66.63 TO 251+59.39	201	201
STA EQ #1 STA. 251+59.39 (BK)= STA. 251+67.91 (AH)		
251+67.91 TO 325+61.00	93	93
TOTAL =	294	294

*NOTE: INCLUDES SECOND LIFT OF SURFACE COURSE

AGGREGATE SURFACE COURSE, TYPE B

LOCATION	AGG SURF CRSE TB (TON)
FAP 662 (IL 4)	
QUANTITY FOR HMA PE'S & CE'S	9.7
TOTAL =	10

HOT-MIX ASPHALT SHOULDERS

LOCATION	LENGTH (FOOT)	WIDTH (FOOT)	HMA SHLDS (TON)
FAP 745 (IL 104)			
91+96.63 TO 251+59.39	15,962.8	4.0	1,787.83
STA EQ #1 STA. 251+59.39 (BK)= STA. 251+67.91 (AH)			
251+67.91 TO 325+61.00	7,393.1	4.0	828.03
TOTAL =			2,616

TRENCH BACKFILL

LOCATION	AVG DEPTH (FOOT)	TRENCH LENGTH (FOOT)	TRENCH BACKFILL (CU YD)
<u>FAP 662 (IL 4)</u>			
STA 115+33.84, (2)-42" PIPES	4	76	32.83
STA 218+18.25, 24" PIPE	3.6	52	15.29
STA 242+50.16, (2)-30" PIPES	2.7	48	11.90
STA 245+57.73, (2)-30" ERS PIPES	2.6	44	14.87
STA 283+51.67, (2)-24" PIPES	2.4	48	11.14
STA 319+25.97, (2)-30" ERS PIPES	2.4	40	10.40
<u>HICKOX ST,</u>			
STA 9+59.00, 24" PIPE	2.4	52	6.03
TOTAL =			102

PAVEMENT PATCHING SCHEDULE FOR CULVERTS

LOCATION	TRENCH LENGTH (FOOT)	WIDTH OF TRENCH (FOOT)	PVT PATCH T3 8" (SQ YD)	PVT PATCH T3 15" (SQ YD)	PVT PATCH T4 15" (SQ YD)
<u>FAP 662 (IL 4)</u>					
STA 115+33.84, (2)-42" PIPES	76	10.0			84.44
STA 218+18.25, 24" PIPE	52	3.5		20.22	
STA 242+50.16, (2)-30" PIPES	48	8.0			42.67
STA 245+57.73, (2)-30" ERS PIPES	44	9.3			45.47
STA 283+51.67, (2)-24" PIPES	48	5.5			29.33
STA 319+25.97, (2)-30" ERS PIPES	40	9.3			41.33
<u>HICKOX ST,</u>					
STA 9+59.00, 24" PIPE	52	4	20.22		
TOTAL =			21	21	244

ROADWAY PAVEMENT PATCHING QUANTITIES CAN BE FOUND IN SOO

SUB-BASE GRANULAR MATERIAL, TYPE B 8"

LOCATION	TRENCH LENGTH (FOOT)	WIDTH OF TRENCH (FOOT)	SUB-BSE GRN MAT TB 8" (SQ YD)
<u>FAP 662 (IL 4)</u>			
STA 115+33.84, (2)-42" PIPES	76	10.0	84.44
STA 218+18.25, 24" PIPE	52	3.5	20.22
STA 242+50.16, (2)-30" PIPES	48	8.0	42.67
STA 245+57.73, (2)-30" ERS PIPES	44	9.3	45.47
STA 283+51.67, (2)-24" PIPES	48	5.5	29.33
STA 319+25.97, (2)-30" ERS PIPES	40	9.3	41.33
<u>HICKOX ST,</u>			
STA 9+59.00, 24" PIPE	52	4	23.11
TOTAL =			288

RIPRAP SCHEDULE

LOCATION	AREA (SQ FT)	STONE RIPRAP CL A3 (SQ YD)	FILTER FABRIC (SQ YD)
<u>FAP 662 (IL 4)</u>			
STA 115+33.84 LT	341	37.89	37.89
STA 218+18.25 RT	114	12.67	12.67
STA 242+50.16 RT	71	7.89	7.89
STA 245+57.73 RT	95	10.56	10.56
STA 283+51.67 LT	45	5.00	5.00
<u>HICKOX ST,</u>			
STA 9+59.00 RT	30	3.33	3.33
TOTAL =		77	77

CULVERT SCHEDULE

LOCATION	PIPE CULVT REMOV (FOOT)	PRC FLAR ES 24" (EACH)	PRC FLAR ES 30" (EACH)	CONC STR (CU YD)	REINF BARS EPXY CT (POUND)	PRC FLAR ES 30" (EACH)	METAL ES 18" (EACH)	P CUL CL A T1 24 (FOOT)	P CUL CL A T1 30 (FOOT)	P CUL CL A T1 42 (FOOT)	P CUL CL A T2 24 (FOOT)	P CUL CL A T1 ERS 30 (FOOT)	P CUL CL D T1 18 (FOOT)
FAP 662 (IL 4)								(X2)	(X2)	(X2)	(X2)	(X2)	
STA 115+33.84	53			16.1	1,030					152			
STA 218+18.25	67	2									52		
STA 218+18.25 RT	11												10
STA 242+50.16	44		4						96				
STA 245+57.73	88					4						88	
STA 283+51.67	88	4						96					
STA 316+38.00 RT	88						2						32
STA 319+25.97	86					4						80	
HICKOX ST.													
STA 9+59.00	60										52		
TOTAL =	585	6	4	16.1	1,030	8	2	96	96	152	104	168	42

SIDEWALK SCHEDULE

LOCATION	LENGTH (FOOT)	EXIST WIDTH (FOOT)	SIDEWALK REM. (SQ FT)	PROP WIDTH (FOOT)	PCC SW 4" (SQ FT)	DETECT WARN (SQ FT)
FAP 662 (IL 4)						
IL 4 E. END						
217+84.00, 15.53' RT	31	2.93	91	4	124	8
IL 4 W. END						
217+84.00, 14.90' LT	11			4	44	8
217+94.00, 16.51' LT	24	2.63	63			
217+94.00, 35.33' LT	9	2.63	24	4	36	8
218+28.00, 38.03' LT	9			4	36	
HICKOX ST.						
9+44.00, 10.87' RT	9	3.05	27	4	36	8
HICKOX ST./JUDD ST.						
10+03.00, 56.30' RT	41	2.89	118	4	164	
10+03.00, 99.81' RT	4	2.89	12	V-4' -2.89'	14	
10+09.00, 61.86' RT	15			4	60	
TOTAL =			335		514	32

EARTH EXCAVATION

LOCATION	EARTH EXCAV (CU YD)	SHRINK FACTOR (CU YD)	EMBANK (CU YD)	BALANCE WASTE + SHORT (CU YD)
FAP 662 (IL 4)				
114+00.00 TO 117+00.00	85.19	63.89	318.52	(254.63)
218+00.00 TO 218+50.00	21.30	15.97	6.48	9.49
242+00.00 TO 243+00.00	25.93	19.44	18.52	0.93
245+50.00 TO 246+00.00	2.78	2.08	8.33	(6.25)
283+00.00 TO 284+00.00	3.70	2.78	25.93	(23.15)
319+00.00 TO 319+50.00	2.78	2.08	10.19	(8.10)
TOTAL =	142	106	388	-282

Shrinkage Factor 25%

GRADING AND SHAPING DITCHES

LOCATION	GRADE & SHAPE DITCHES (FOOT)
FAP 662 (IL 4)	
213+00.00 TO 216+50.00 LT	350.00
216+81.00 TO 217+31.00 RT	50.00
217+95.00 TO 220+40.00 RT	245.00
243+00.00 TO 245+50.00	500.00
315+00.00 TO 322+70.00 RT	770.00
319+00.00 TO 320+00.00 LT	100.00
•EXTRA QUANTITIY @ CULVT	100.00
TOTAL =	2,115

•EXTRA QUANTITIY @ STA 283+35.35 FOR GRADING DS END & MISC AREAS ALONG PROJ.

SEEDING SCHEDULE

LOCATION	AREA (SQ FT)	SEEDING & MULCH METH 2 (ACRE)	NITRO FERT NUTRI (POUND)	PHOSP FERT NUTRI (POUND)	POTASS FERT NUTRI (POUND)	AGRI GRD LIMSTN (TON)
FAP 662 (IL 4)						
114+00.00 TO 117+00.00 *	218	0.01	0.45	0.45	0.45	0.01
213+00.00 TO 216+50.00 LT**	3,500	0.08	7.23	7.23	7.23	0.16
216+81.00 TO 217+31.00 RT**	500	0.01	1.03	1.03	1.03	0.02
217+95.00 TO 218+00.00 RT**	50	0.001	0.10	0.10	0.10	0.002
218+00.00 TO 218+50.00 *	30	0.0007	0.06	0.06	0.06	0.001
218+50.00 TO 220+40.00 RT**	1,900	0.04	3.93	3.93	3.93	0.09
242+00.00 TO 243+00.00 *	18	0.0004	0.04	0.04	0.04	0.001
243+00.00 TO 245+50.00 **	5,000	0.11	10.33	10.33	10.33	0.23
245+50.00 TO 246+00.00 *	12	0.0003	0.02	0.02	0.02	0.001
283+00.00 TO 284+00.00 *	16	0.0004	0.03	0.03	0.03	0.001
315+00.00 TO 322+70.00 RT**	7,700	0.18	15.91	15.91	15.91	0.35
319+00.00 TO 320+00.00 LT**	1,000	0.02	2.07	2.07	2.07	0.05
***EXTRA QUANTITIY @ CULVT **	1,000	0.02	2.07	2.07	2.07	0.05
TOTAL =		0.48	43	43	43	1

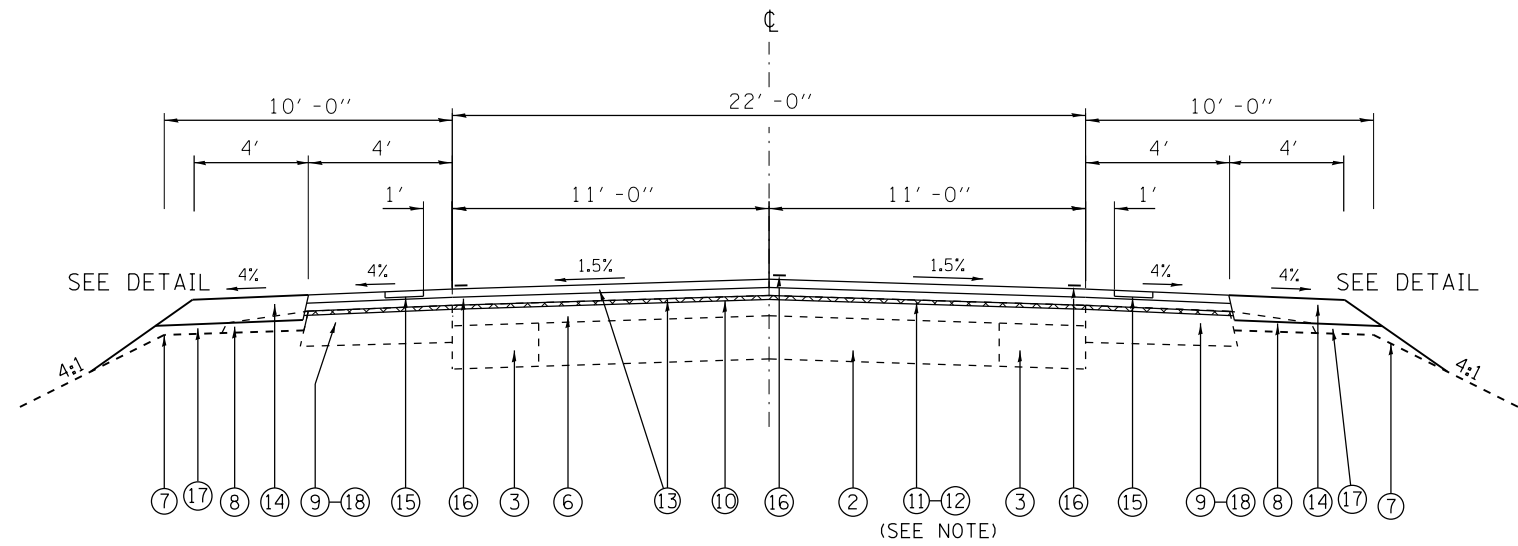
•SEE EARTHWORK CALCS FOR SQ FT QUAN.

**ASSUME APPOX. 10' OF COVERAGE

***EXTRA QUANTITIY @ STA 283+35.35 FOR GRADING DS END & MISC AREAS ALONG PROJ.

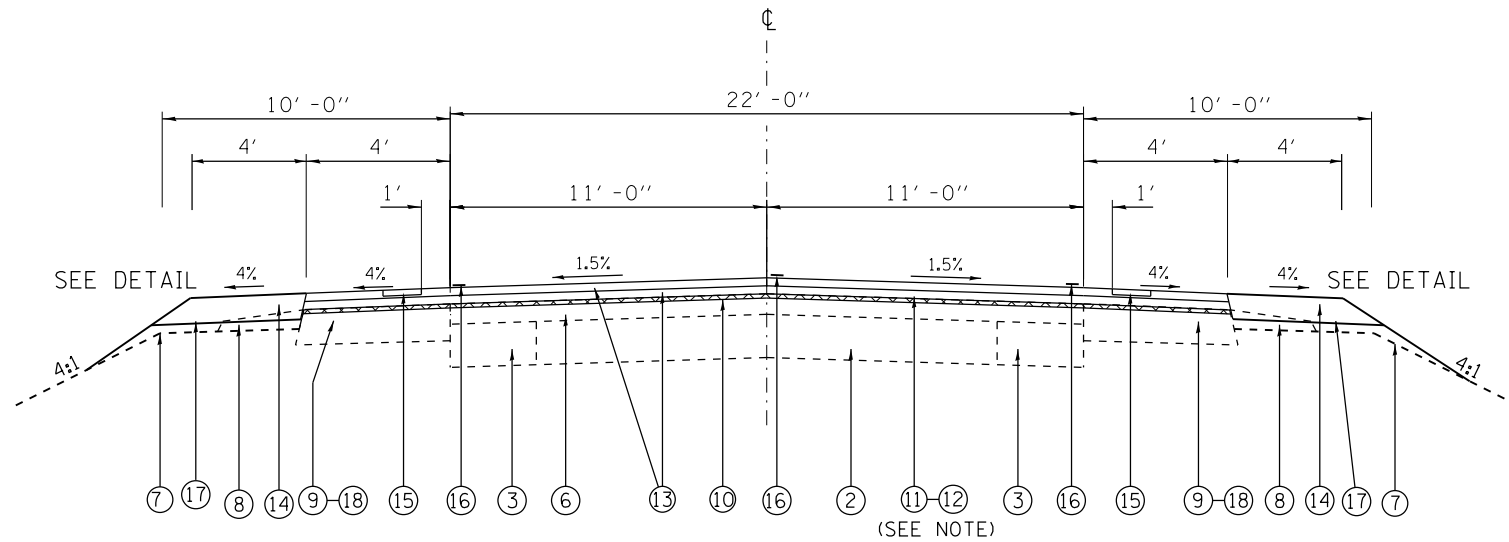
GRADING AND SHAPING SHOULDERS

LOCATION	LENGTH (FOOT)	EXC & GRADE EX SHLD (UNIT)
FAP 662 (IL 4)		
91+66.63 TO 251+59.39	15,992.76	159.93
STA EQ #1 STA. 251+59.39 (BK)= STA. 251+67.91 (AH)		
251+67.91 TO 325+61.00	7,393.09	73.93
TOTAL =		234



TYPICAL SECTION #3
 STA. 241+56.73 TO STA. 250+00.00 (843.27')

***NOTE:
 EXPERIMENTAL LEVELING BINDER FEATURE
 (SEE GENERAL NOTES)



TYPICAL SECTION #4
 STA. 250+00.00 TO STA. 251+59.39 (159.39')
 STA. 251+67.91 TO STA. 320+00.00 (6,832.09')

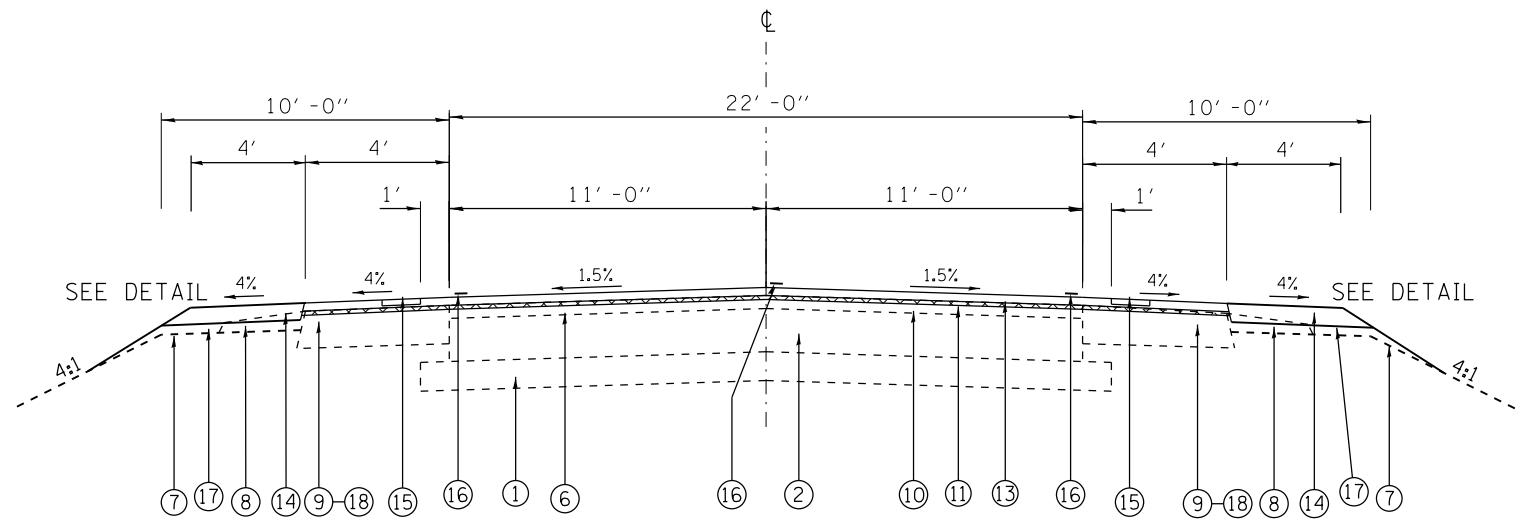
STA EQUATION
 STA. 251+59.39 BK=
 STA. 251+67.91 AH

LEGEND

- ① EX. SUB-BASE GRANULAR MATERIAL, TYPE A
- ② EX. PCC PAVEMENT - 8"
- ③ EX. PCC BASE COURSE WIDENING - 8"
- ④ EX. LONGITUDINAL METAL JOINT
- ⑤ EX. STEEL TIE BAR
- ⑥ EX. BITUMINOUS OVERLAY - 4.25" to 6.25"
- ⑦ EX. EARTH SHOULDER
- ⑧ EX. AGGREGATE SHOULDER
- ⑨ EX. HOT-MIX ASPHALT SHOULDERS - 8"
 (WITH SHOULDER RUMBLE STRIP)
- ⑩ PROPOSED HOT-MIX ASPHALT REMOVAL - 3/4"
- ⑪ PROPOSED HOT-MIX ASPHALT LEVELING BINDER, (MACHINE METHOD)
 IL 9.5FG N50 - 3/4"
- ⑫ PROPOSED HOT-MIX ASPHALT LEVELING BINDER, (MACHINE METHOD)
 N50 (SPECIAL) - 3/4"
- ⑬ PROPOSED HOT-MIX ASPHALT SURFACE COURSE,
 MIX "C", N50 - 1 1/2"
- ⑭ PROPOSED AGGREGATE SHOULDER TYPE B
- ⑮ PROPOSED SHOULDER RUMBLE STRIP
- ⑯ PROPOSED PAINT PAVEMENT MARKING - LINE 5"
- ⑰ PROPOSED GRADING AND SHAPING SHOULDERS
- ⑱ PROPOSED HOT-MIX ASPHALT SHOULDERS

(NOT TO SCALE)

FILE NAME =	USER NAME = Verenskif	DESIGNED - JWC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBIDINTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 6\Projects\0672\Drawings\EA0sh\JWC\072J55-sh-typical	DRAWN BY JWC	CHECKED - JWC	REVISED -		662	(DX) SW & (E) RS-2	MACOUPIN	39	16			
Default	PLOT SCALE = 80.0000' / in.	DATE -	REVISED -		CONTRACT NO. 72J55			ILLINOIS FED. AID PROJECT				
	PLOT DATE = 2/3/2017				SCALE:	SHEET 2 OF 3 SHEETS	STA.	TO STA.				



TYPICAL SECTION #5
 STA. 320+00.00 TO STA. 325+46.00 (546.00')

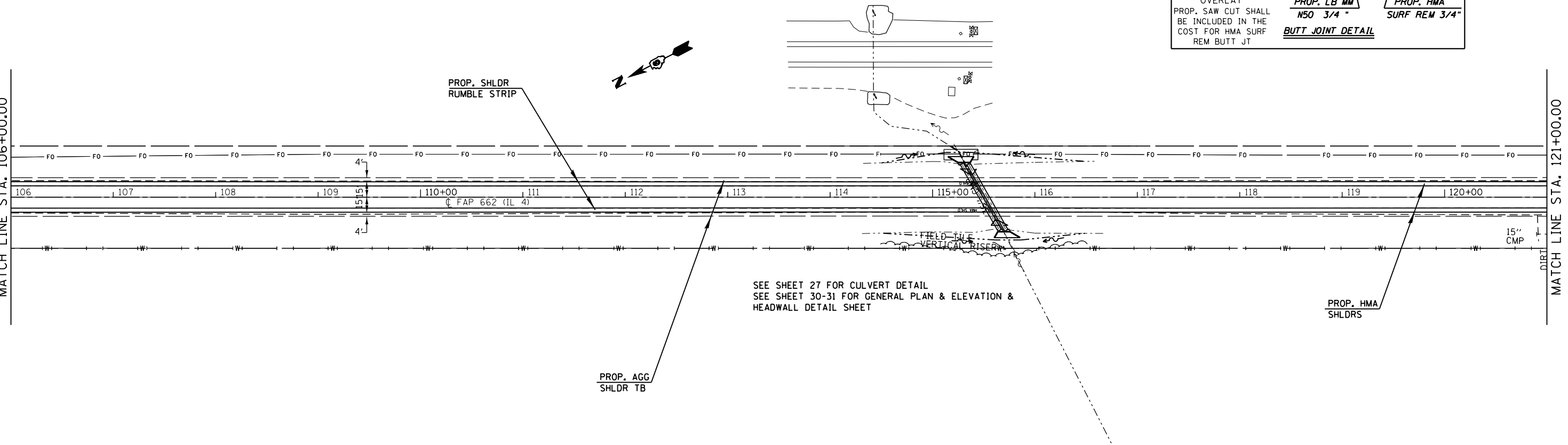
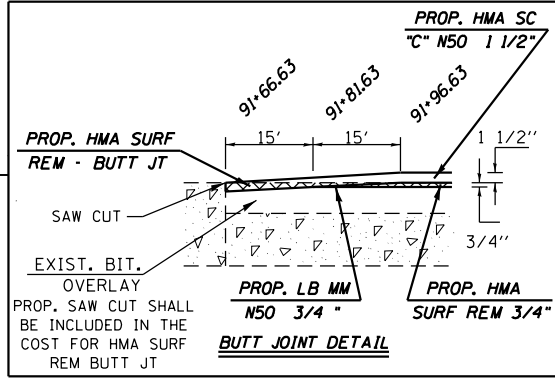
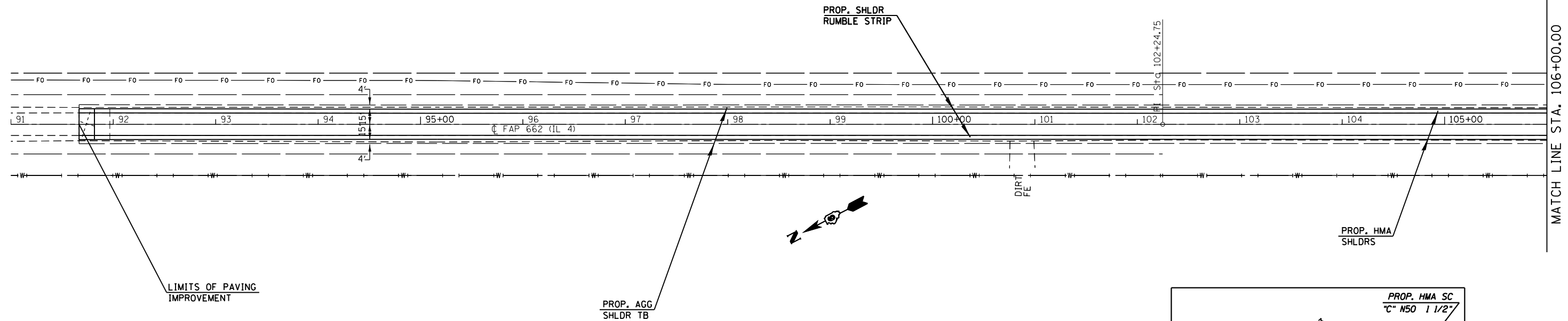
LEGEND

- ① EX. SUB-BASE GRANULAR MATERIAL, TYPE A
- ② EX. PCC PAVEMENT - 8"
- ③ EX. PCC BASE COURSE WIDENING - 8"
- ④ EX. LONGITUDINAL METAL JOINT
- ⑤ EX. STEEL TIE BAR
- ⑥ EX. BITUMINOUS OVERLAY - 4.25" to 6.25"
- ⑦ EX. EARTH SHOULDER
- ⑧ EX. AGGREGATE SHOULDER
- ⑨ EX. HOT-MIX ASPHALT SHOULDERS - 8"
(WITH SHOULDER RUMBLE STRIP)
- ⑩ PROPOSED HOT-MIX ASPHALT REMOVAL - 3/4"
- ⑪ PROPOSED HOT-MIX ASPHALT LEVELING BINDER, (MACHINE METHOD)
IL 9.5FG N50 - 3/4"
- ⑫ PROPOSED HOT-MIX ASPHALT LEVELING BINDER, (MACHINE METHOD)
N50 (SPECIAL) - 3/4"
- ⑬ PROPOSED HOT-MIX ASPHALT SURFACE COURSE,
MIX "C", N50 - 1 1/2"
- ⑭ PROPOSED AGGREGATE SHOULDER TYPE B
- ⑮ PROPOSED SHOULDER RUMBLE STRIP
- ⑯ PROPOSED PAINT PAVEMENT MARKING - LINE 5"
- ⑰ PROPOSED GRADING AND SHAPING SHOULDERS
- ⑱ PROPOSED HOT-MIX ASPHALT SHOULDERS

(NOT TO SCALE)

FILE NAME =	USER NAME = Verenskif	DESIGNED - JWC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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Default	PLOT SCALE = 80.0000' / in.	DATE -	REVISED -			SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.		CONTRACT NO. 72J55			
	PLOT DATE = 2/3/2017					ILLINOIS FED. AID PROJECT					

+66.63
+81.63
+96.63



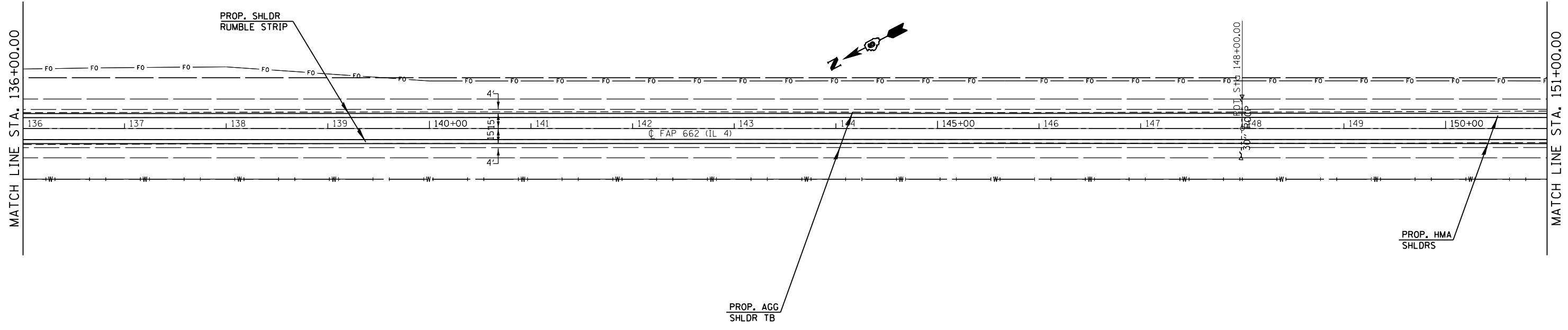
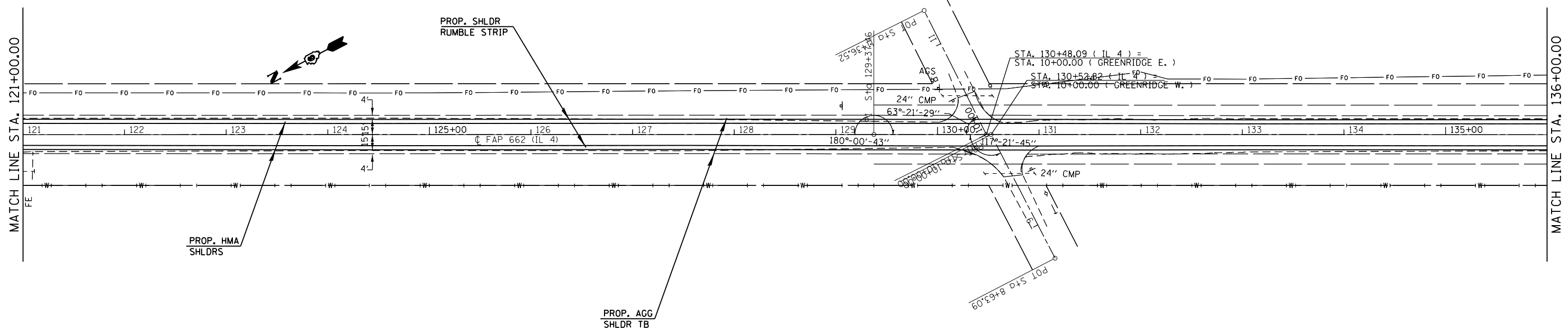
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		CHECKED - JWC	REVISED -
Default	PLOT DATE = 2/3/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEETS - IL 4

SCALE: 50 SHEET 1 OF 8 SHEETS STA. 91+66.63 TO STA. 121+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(DX) SW & (E) RS-2	MACOUPIN	39	19
CONTRACT NO. 72J55			ILLINOIS FED. AID PROJECT	



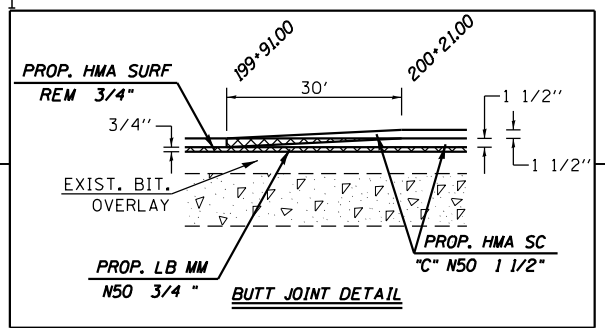
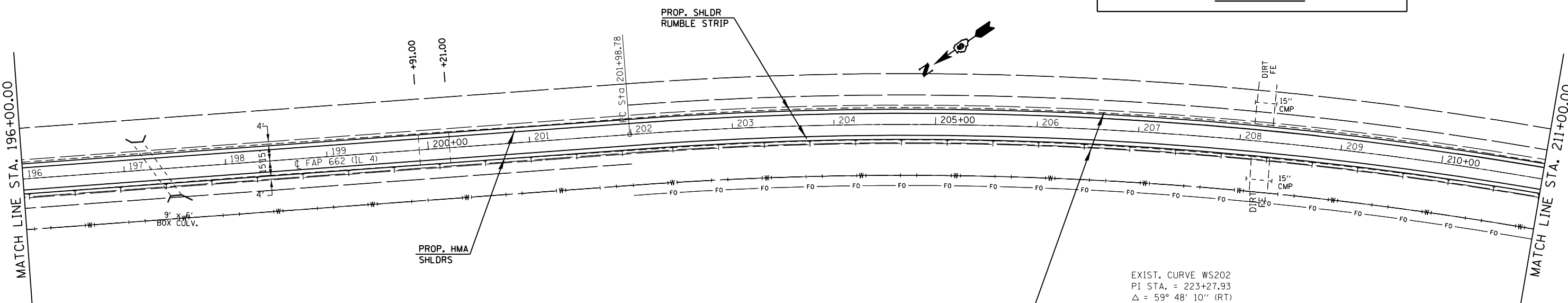
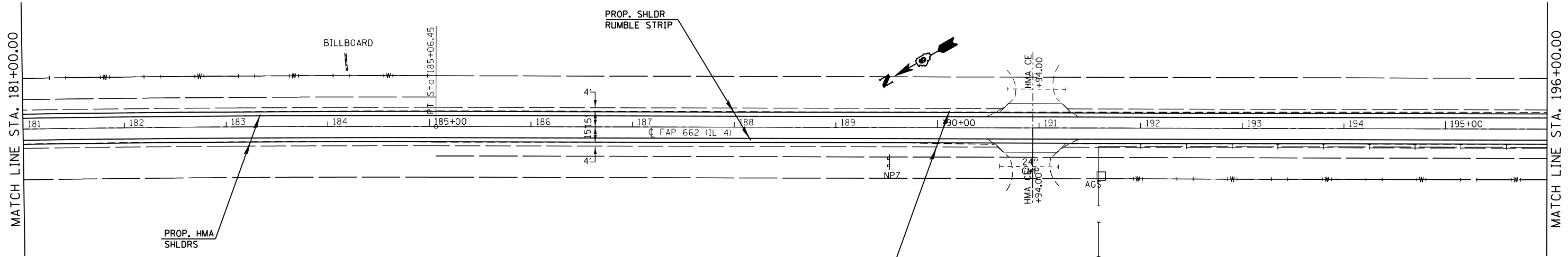
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Default	PLOT DATE = 2/3/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEETS - IL 4

SCALE: 50 SHEET 2 OF 8 SHEETS STA. 121+00.000 TO STA. 151+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(DX) SW & (E) RS-2	MACOUPIN	39	20
CONTRACT NO. 72J55			ILLINOIS FED. AID PROJECT	



EXIST. CURVE WS202
 PI STA. = 223+27.93
 Δ = 59° 48' 10" (RT)
 D = 1° 32' 51"
 R = 3,702.50'
 T = 2,129.15'
 L = 3,864.50'
 E = 568.54'
 e = ----
 T.R. = ----
 S.E. RUN = ----
 P.C. STA. = 201+98.78
 P.T. STA. = 240+63.28

(PROP.)
FULL S.E.: (S.E.#1 = 3.6%)
STA. 202+53.45 TO 240+08.61
S.E. TRANSITION:
STA. 200+21.11 TO 202+53.45
STA. 240+08.61 TO 242+40.95

FILE NAME =	USER NAME = Verenskif	DESIGNED - JWC	REVISED -
pw:\IL084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 6\Projects\0672\Drawings\EA0sh\JWC\0672J55-shr-plans\	DRAWN BY JWC	CHECKED - JWC	REVISED -
Default	PLOT DATE = 2/3/2017	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN SHEETS - IL 4

SCALE: 50 SHEET 4 OF 8 SHEETS STA. 181+00.00 TO STA. 211+00.00

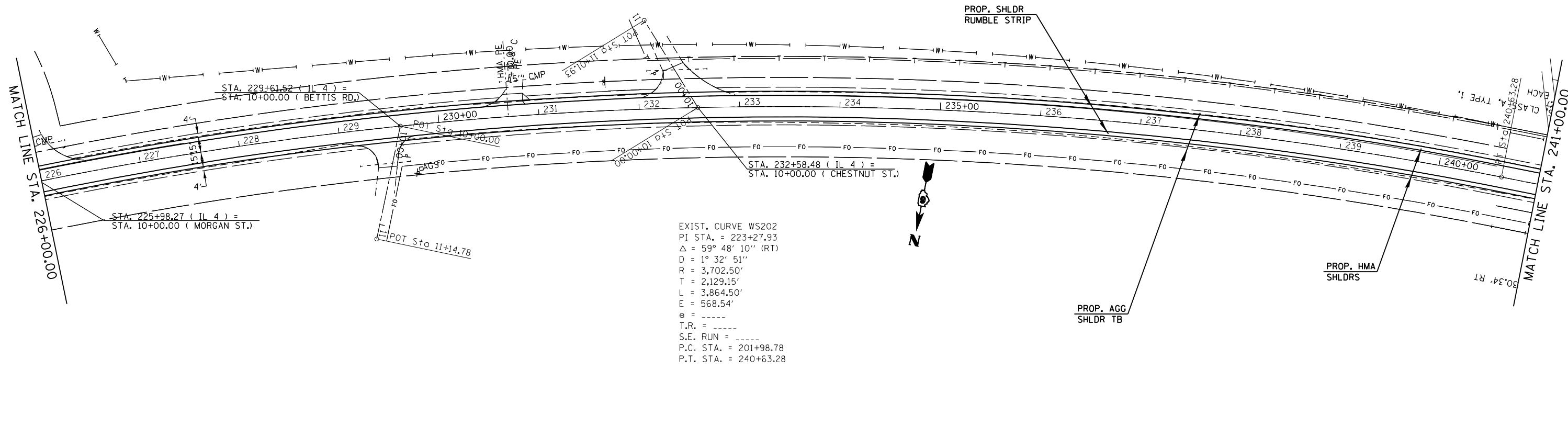
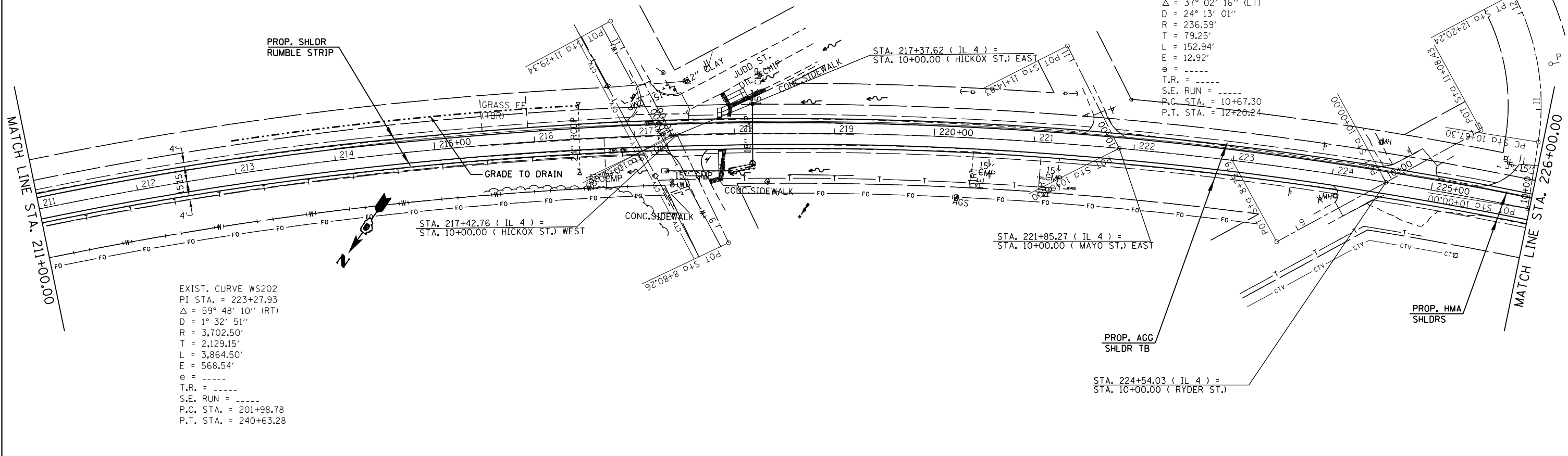
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(DX) SW & (E) RS-2	MACOUPIN	39	22
CONTRACT NO. 72J55			ILLINOIS FED. AID PROJECT	

OMIT SHLDR RUMBLE STRIPS 8" FR.
STA. 215+00.00 TO STA. 235+00.00

SEE SHEET 27 FOR CULVERT DETAIL
SEE SHEET 32 FOR SIDEWALK DETAIL

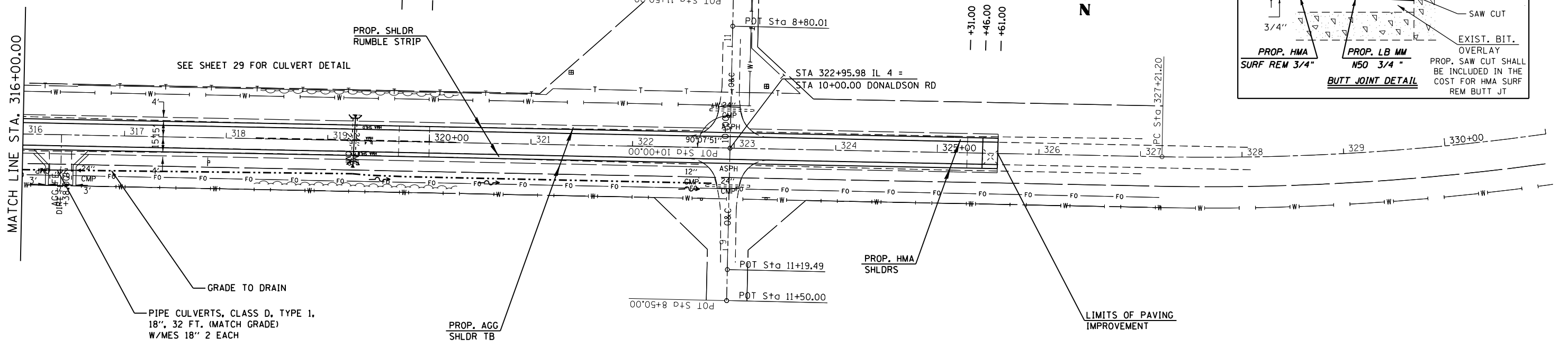
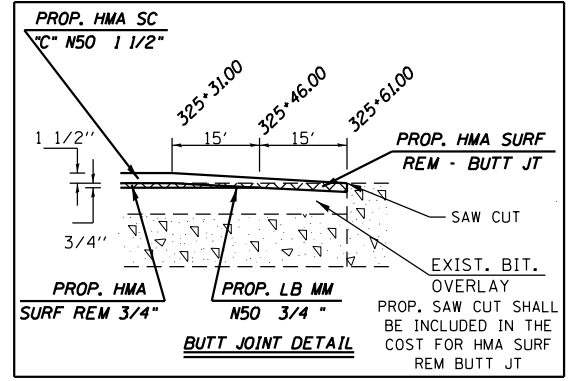
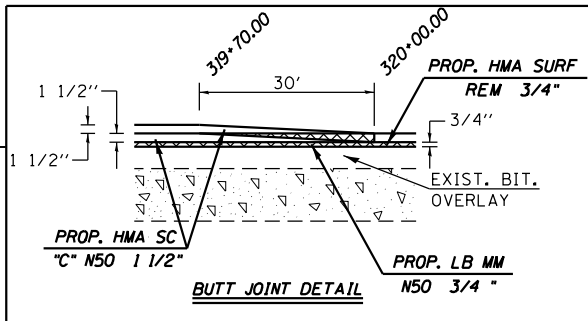
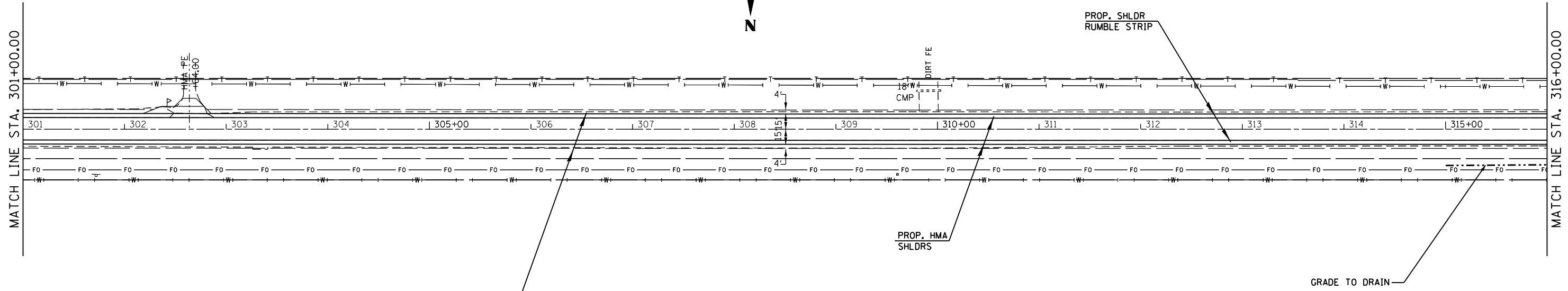
EXIST. CURVE WS86
PI STA. = 11+46.55
 $\Delta = 37^\circ 02' 16''$ (LT)
D = 24° 13' 01"
R = 236.59'
T = 79.25'
L = 152.94'
E = 12.92'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 10+67.30
P.T. STA. = 12+26.24

EXIST. CURVE WS202
PI STA. = 223+27.93
 $\Delta = 59^\circ 48' 10''$ (RT)
D = 1° 32' 51"
R = 3,702.50'
T = 2,129.15'
L = 3,864.50'
E = 568.54'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 201+98.78
P.T. STA. = 240+63.28



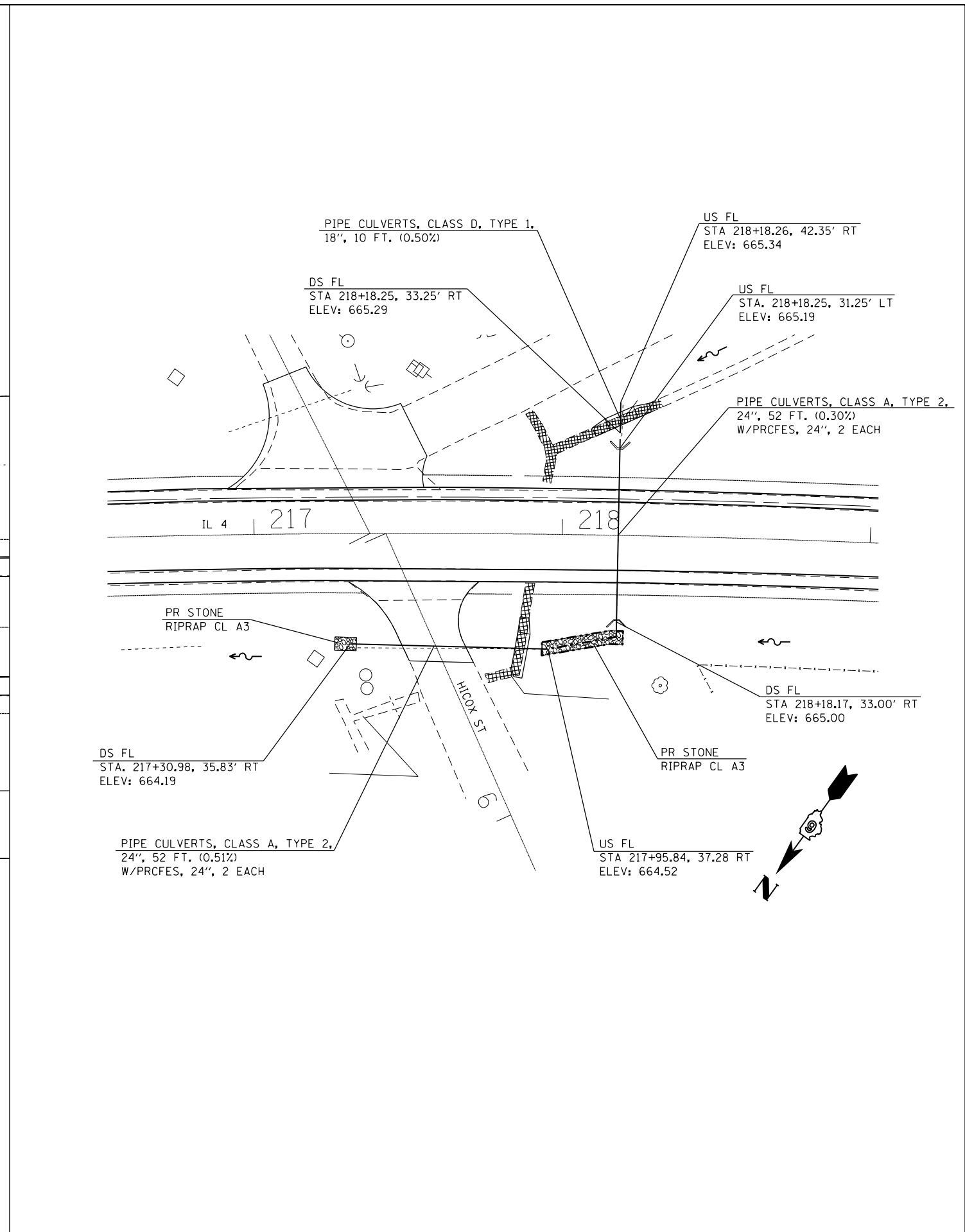
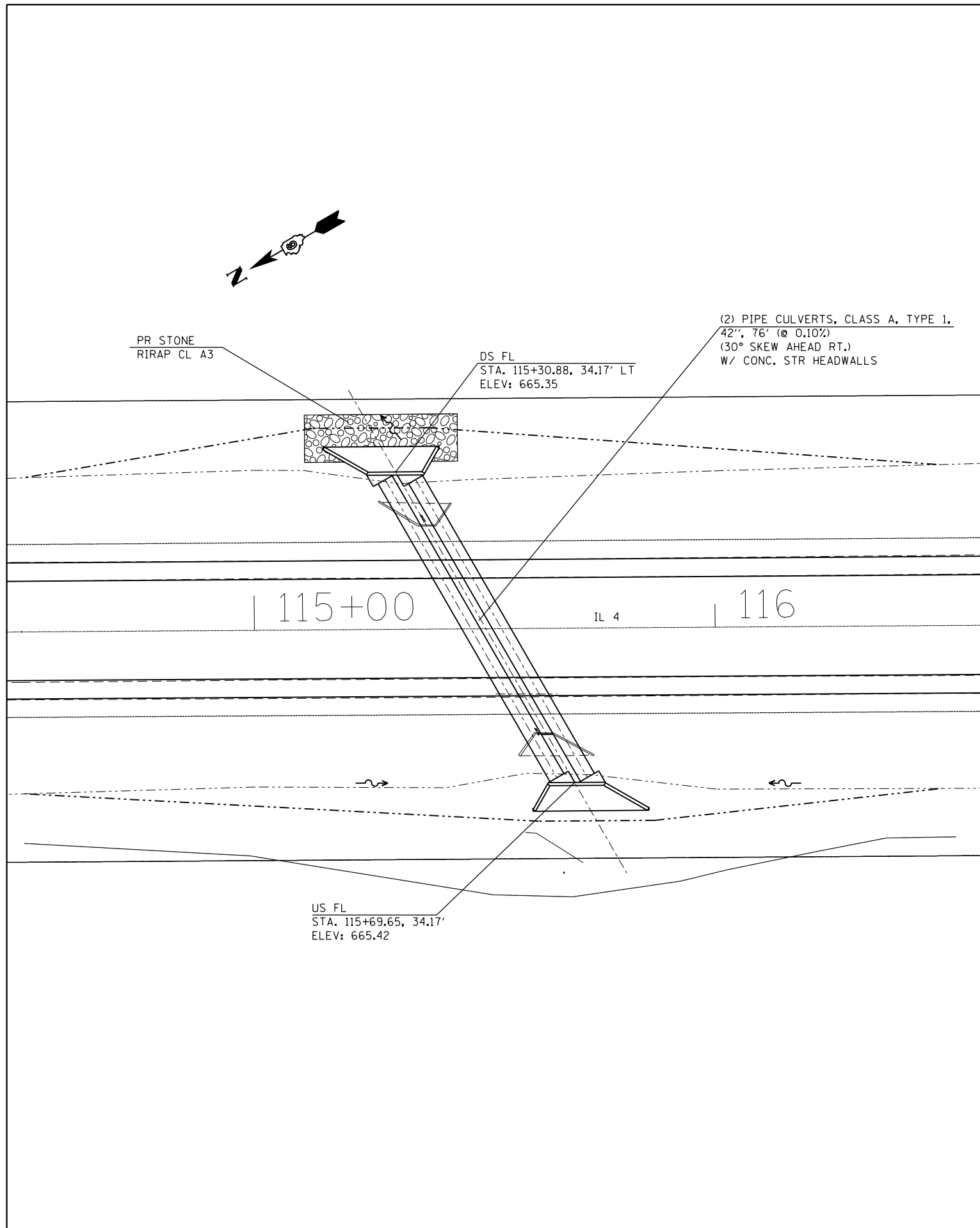
EXIST. CURVE WS202
PI STA. = 223+27.93
 $\Delta = 59^\circ 48' 10''$ (RT)
D = 1° 32' 51"
R = 3,702.50'
T = 2,129.15'
L = 3,864.50'
E = 568.54'
e = -----
T.R. = -----
S.E. RUN = -----
P.C. STA. = 201+98.78
P.T. STA. = 240+63.28

FILE NAME =	USER NAME = Verenskif	DESIGNED - JWC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEETS - IL 4			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
pw\11084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 6\Projects\0672\Drawings\672\J55-sht-plans	DRAWN - JWC	CHECKED - JWC	REVISED -		SCALE: 50	SHEET 5	OF 8 SHEETS	STA. 211+00.00	TO STA. 241+00.00	662	(DX) SW & (E) RS-2	MACOUPIN	39	23
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		CONTRACT NO. 72J55									
	PLOT DATE = 2/3/2017		REVISED -		ILLINOIS FED. AID PROJECT									



FILE NAME =	USER NAME = Verenski.f	DESIGNED - JWC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN SHEETS - IL 4			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 6\Projects\0672\Drawings\0672\J55-sht-plans\REVISED -	DRAWN - JWC	REVISIONS -	662					(DX) SW & (E) RS-2	MACOUPIN	39	26	
PLOT SCALE = 100.0000' / 1" =	CHECKED - JWC	REVISED -	CONTRACT NO. 72J55									
Default	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									

SCALE: 50 SHEET 8 OF 8 SHEETS STA. 301+00.00 TO STA. 325+61.00



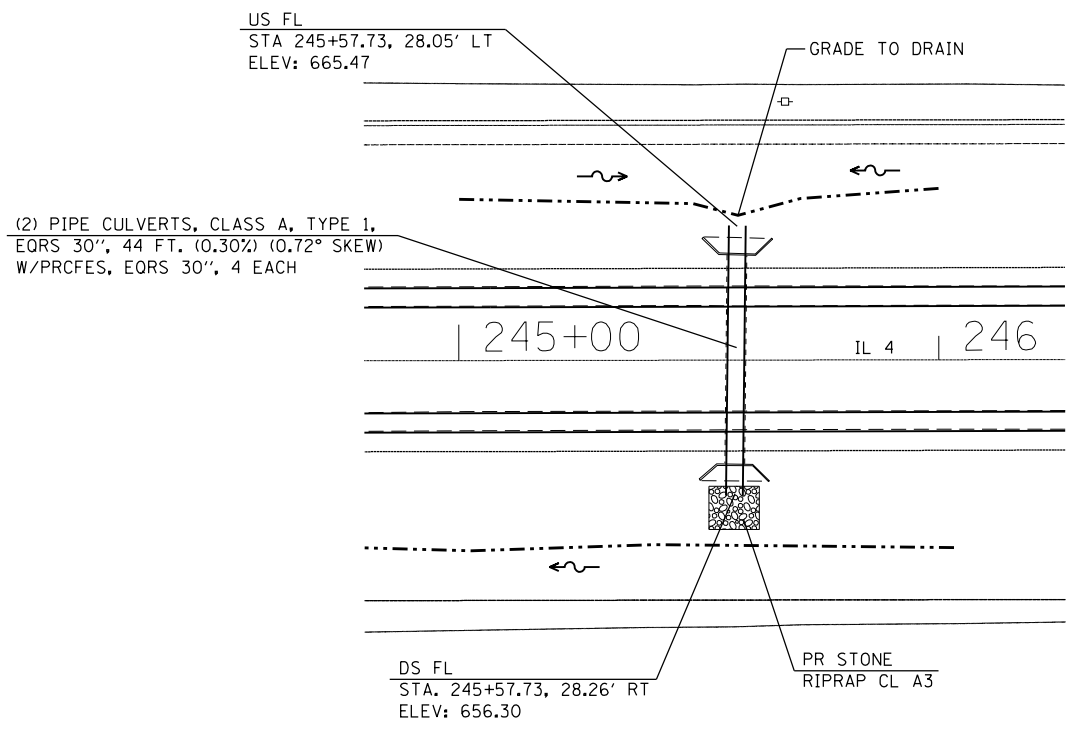
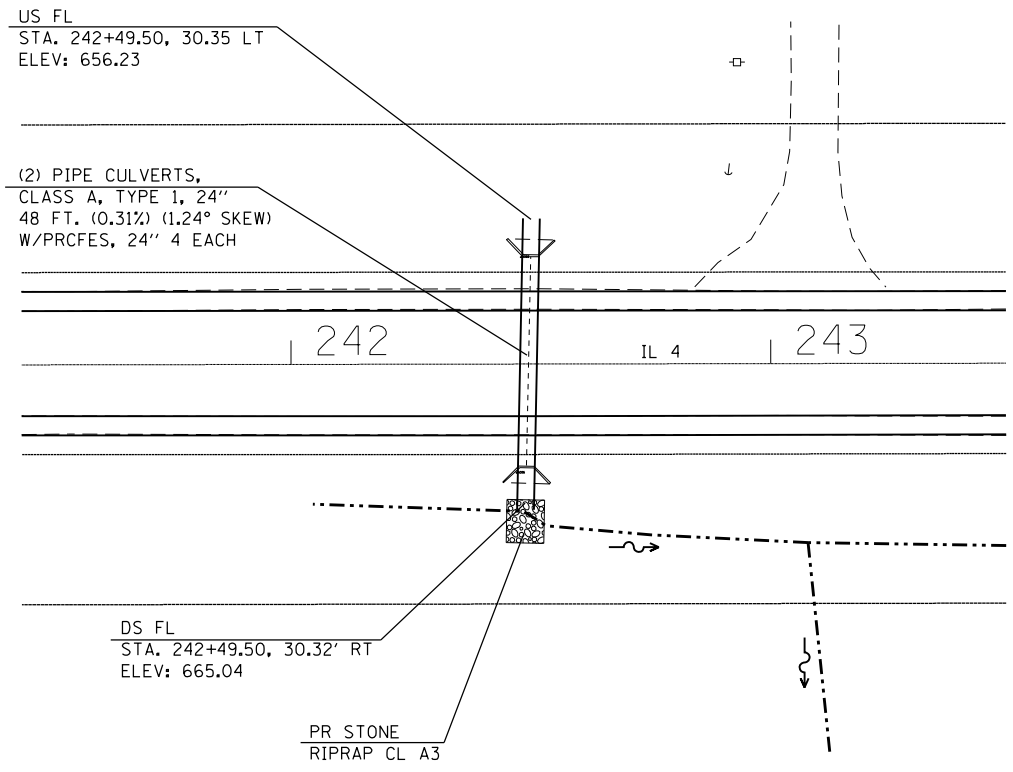
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Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/3/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CULVERT DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(DX) SW & (E) RS-2	MACOUPIN	39	27
CONTRACT NO. 72J55				
ILLINOIS FED. AID PROJECT				



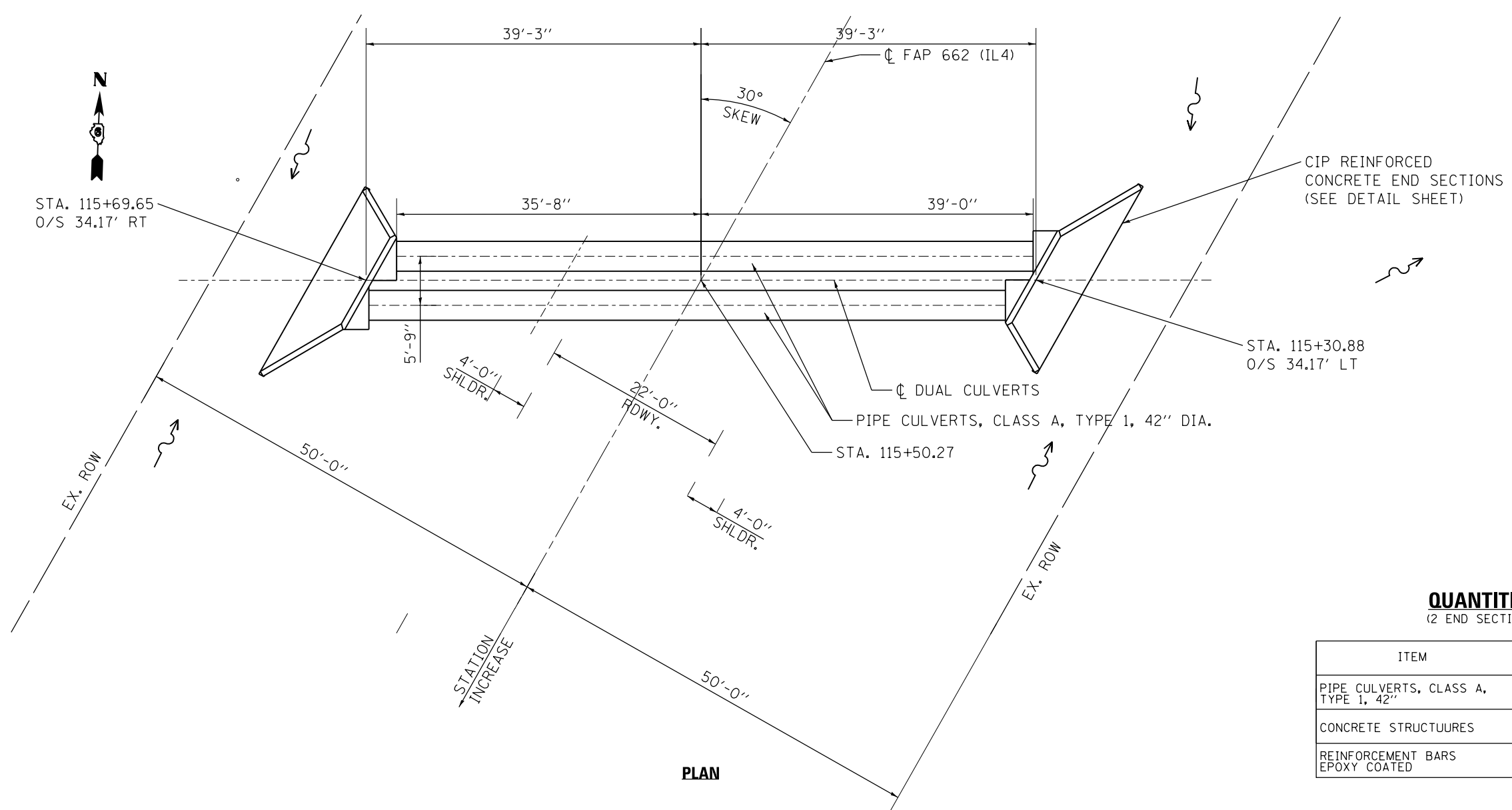
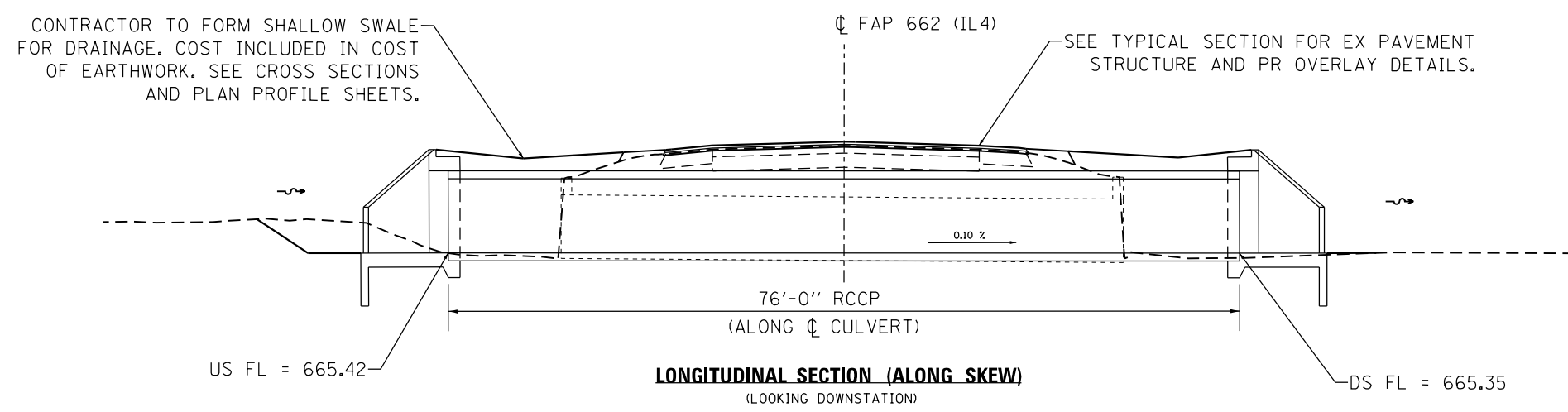
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Default	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 2/3/2017	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CULVERT DETAILS

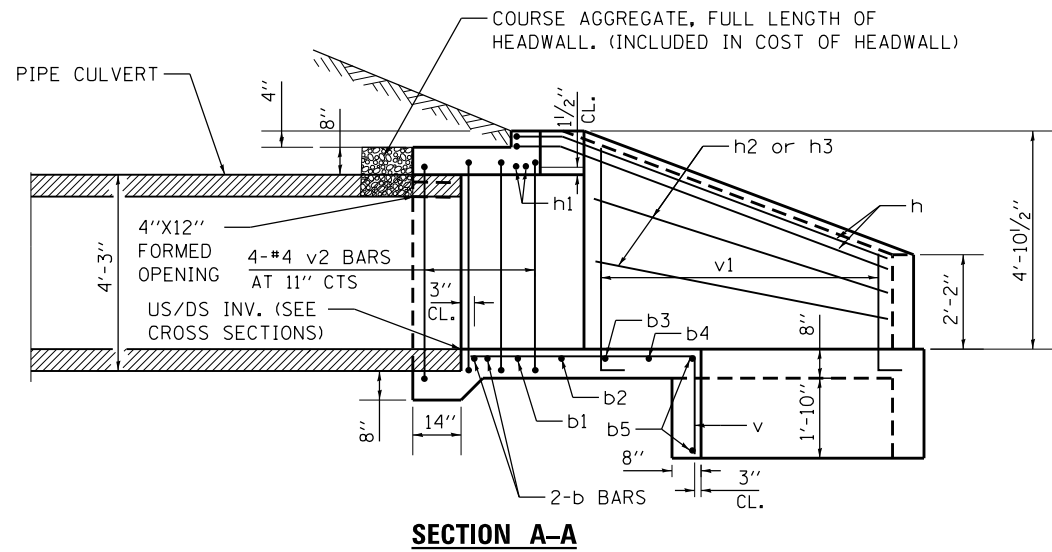
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(DX) SW & (E) RS-2	MACOUPIN	39	28
CONTRACT NO. 72J55			ILLINOIS FED. AID PROJECT	



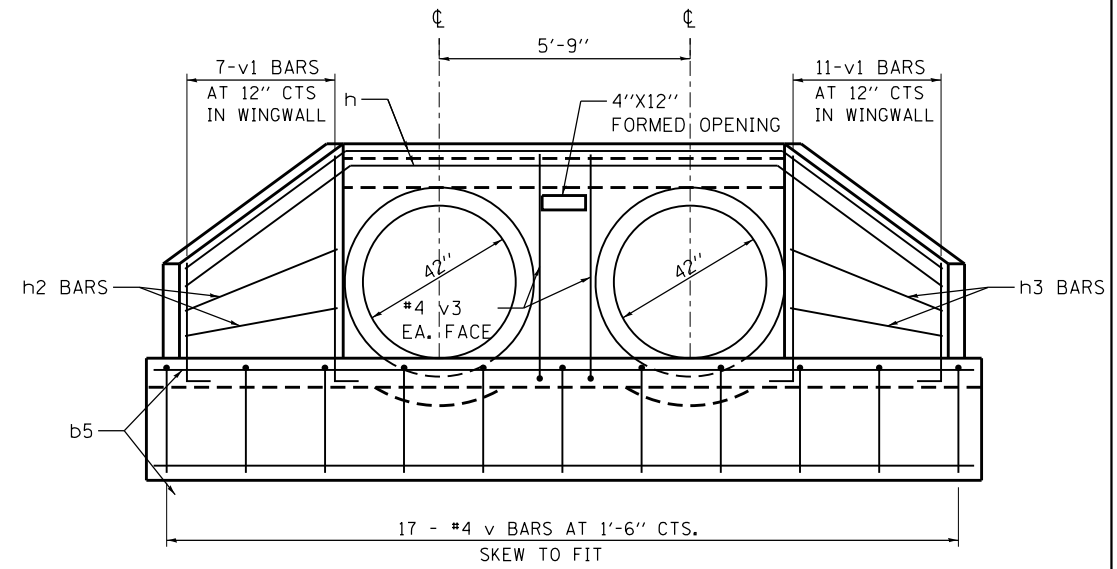
QUANTITIES
(2 END SECTIONS)

ITEM	UNIT	QTY.
PIPE CULVERTS, CLASS A, TYPE 1, 42"	FOOT	152
CONCRETE STRUCTUURES	CU. YD.	16.1
REINFORCEMENT BARS EPOXY COATED	POUND	1,030

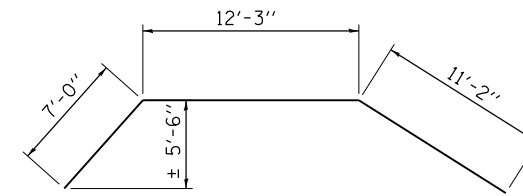


DESIGN STRESSES

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

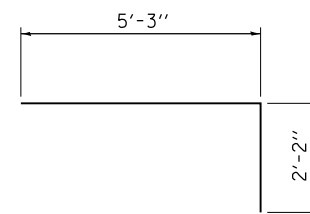


END VIEW

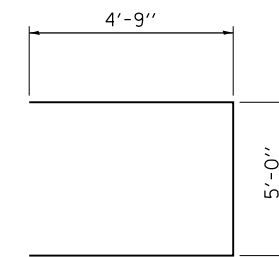


BAR h

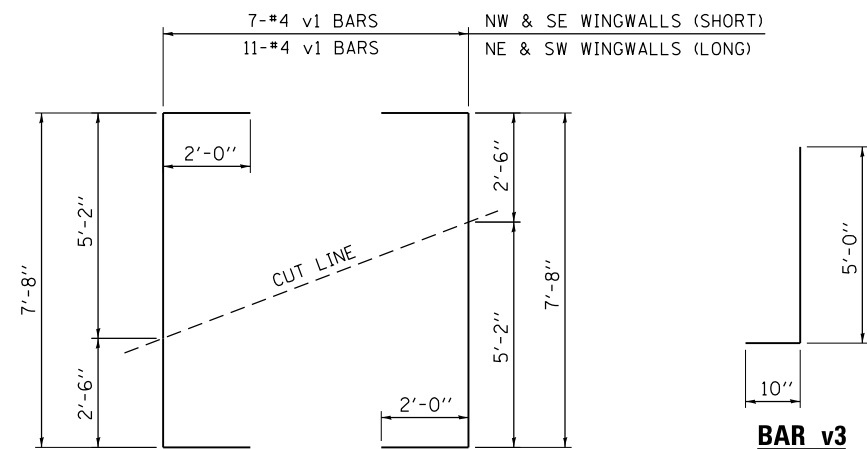
(BEND IN FIELD)



BAR v



BAR v2



FIELD CUTTING DIAGRAM

ORDER v1 BARS FULL LENGTH

BILL OF MATERIAL (2 END SECTIONS)

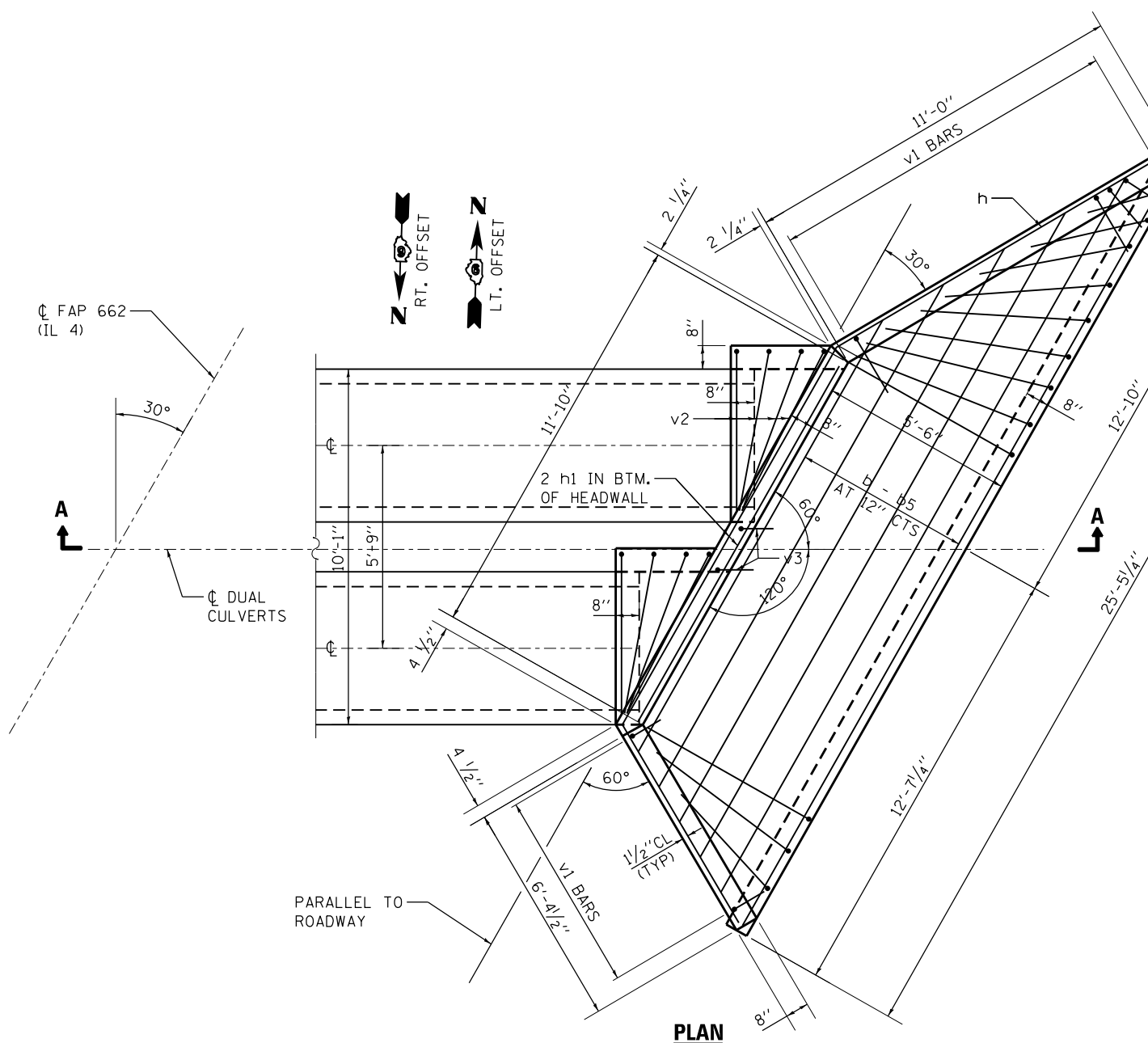
BAR	NO.	SIZE	LENGTH	SHAPE
b	4	#5	14'-0"	—
b1	2	#5	16'-4"	—
b2	2	#5	18'-7"	—
b3	2	#5	20'-11"	—
b4	2	#5	23'-2"	—
b5	4	#5	25'-0"	—
h	4	#5	30'-5"	⌒
h1	4	#5	11'-8"	—
h2	4	#4	6'-3"	—
h3	4	#4	10'-10"	—
v	34	#4	7'-5"	⌒
v1	18	#4	11'-8"	⌒
v2	16	#4	14'-6"	⌒
v3	4	#4	5'-10"	⌒

GENERAL NOTES

BUILD TOPS OF HEADWALLS PARALLEL TO GRADE LINES.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

REINFORCEMENT BARS SHALL BE EPOXY COATED



PLAN

FILE NAME =	USER NAME = Verenskif	DESIGNED - JWS	REVISED -
pw:\IL\084EBIDINTEG\Illinois.gov\PI\DOT\Documents\DOT Offices\District 6\Projects\0672\Drawings\02_05-shd-dtl-headwall		CHECKED - SJK	REVISED -
Default	PLOT DATE = 2/3/2017	DATE -	REVISED -

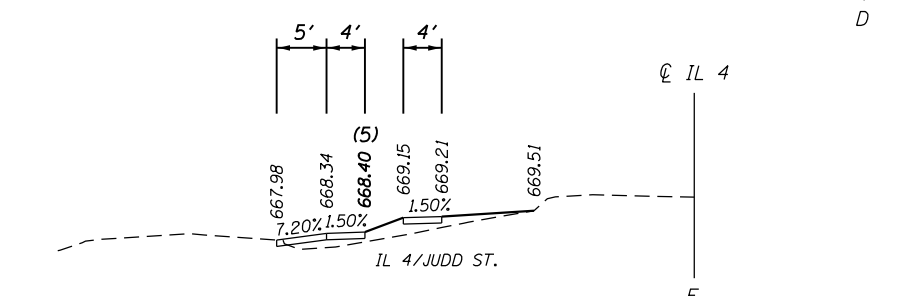
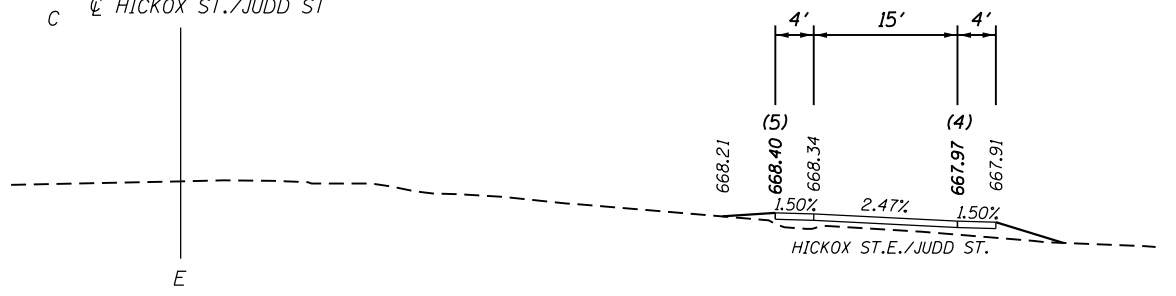
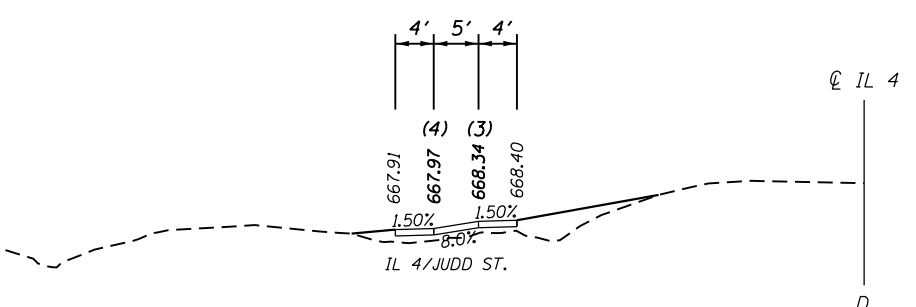
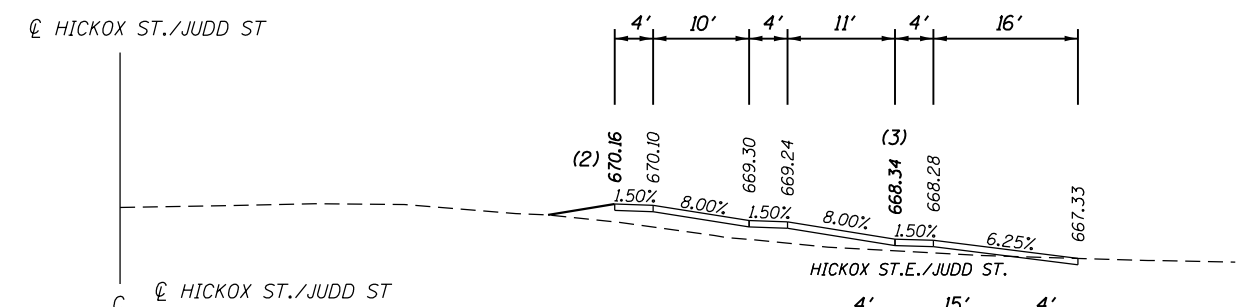
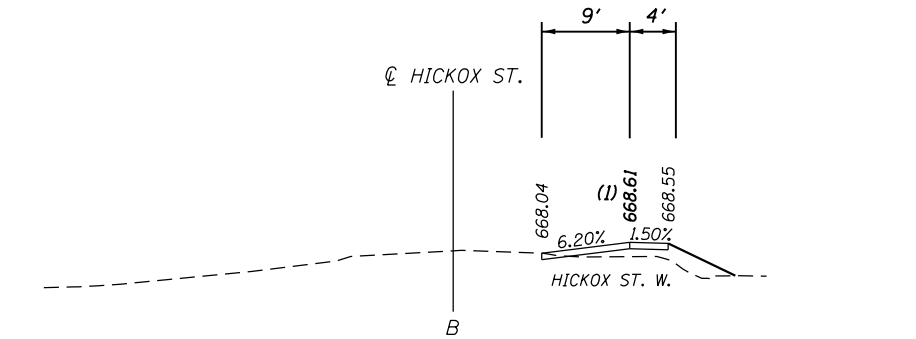
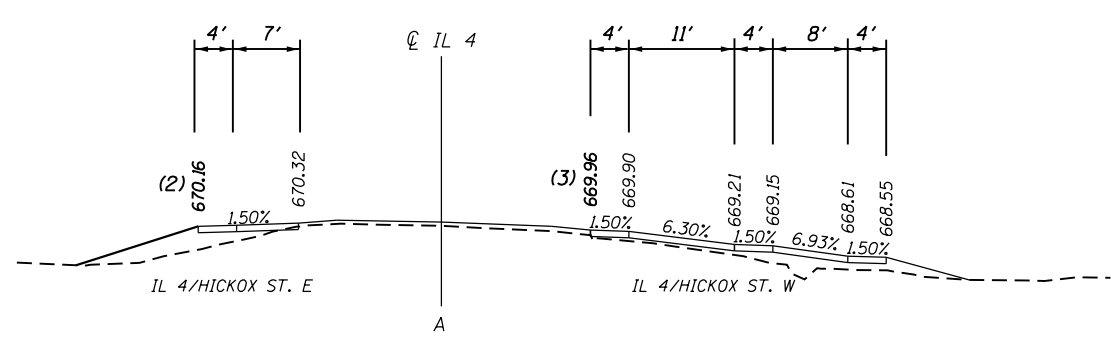
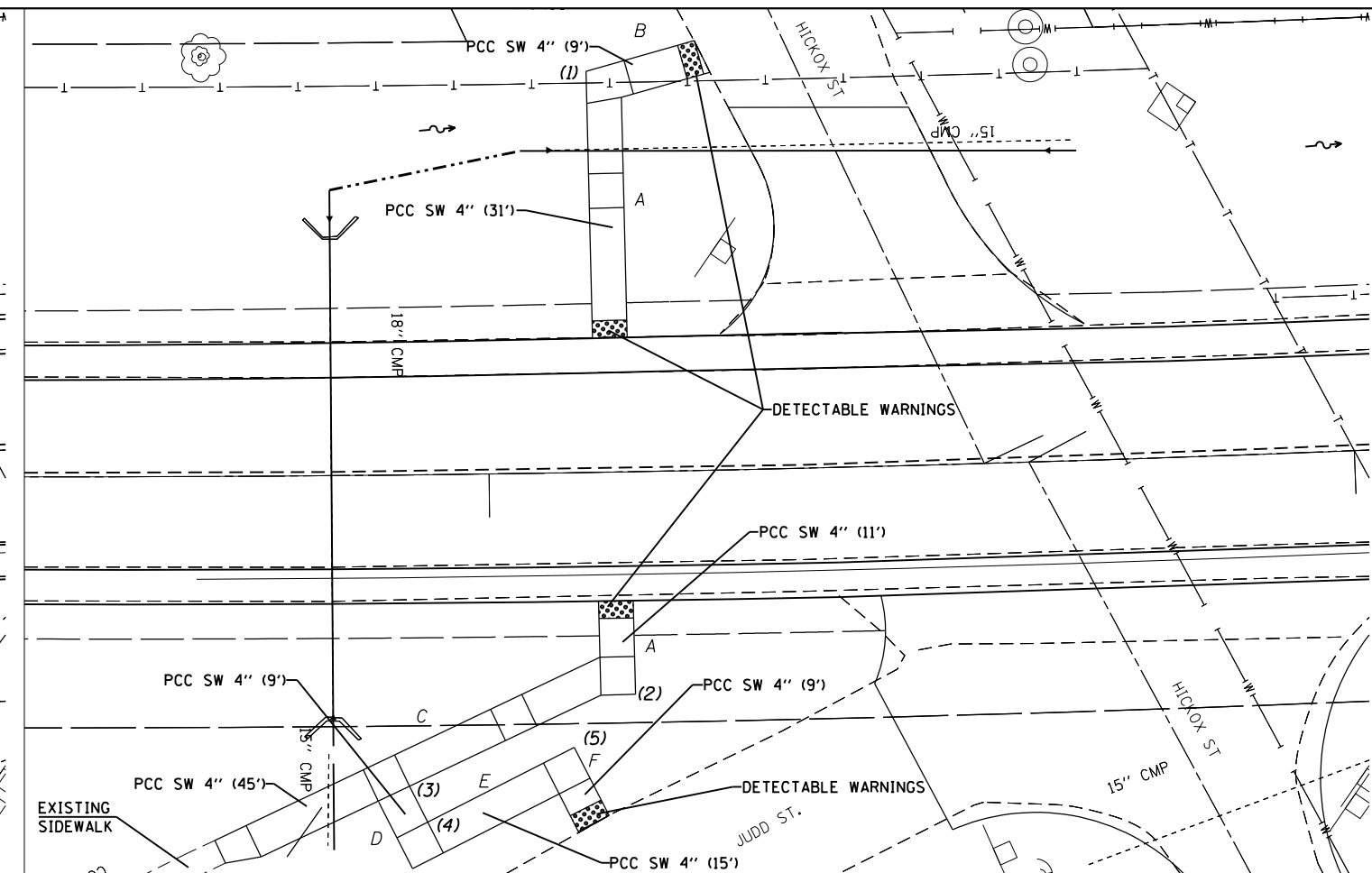
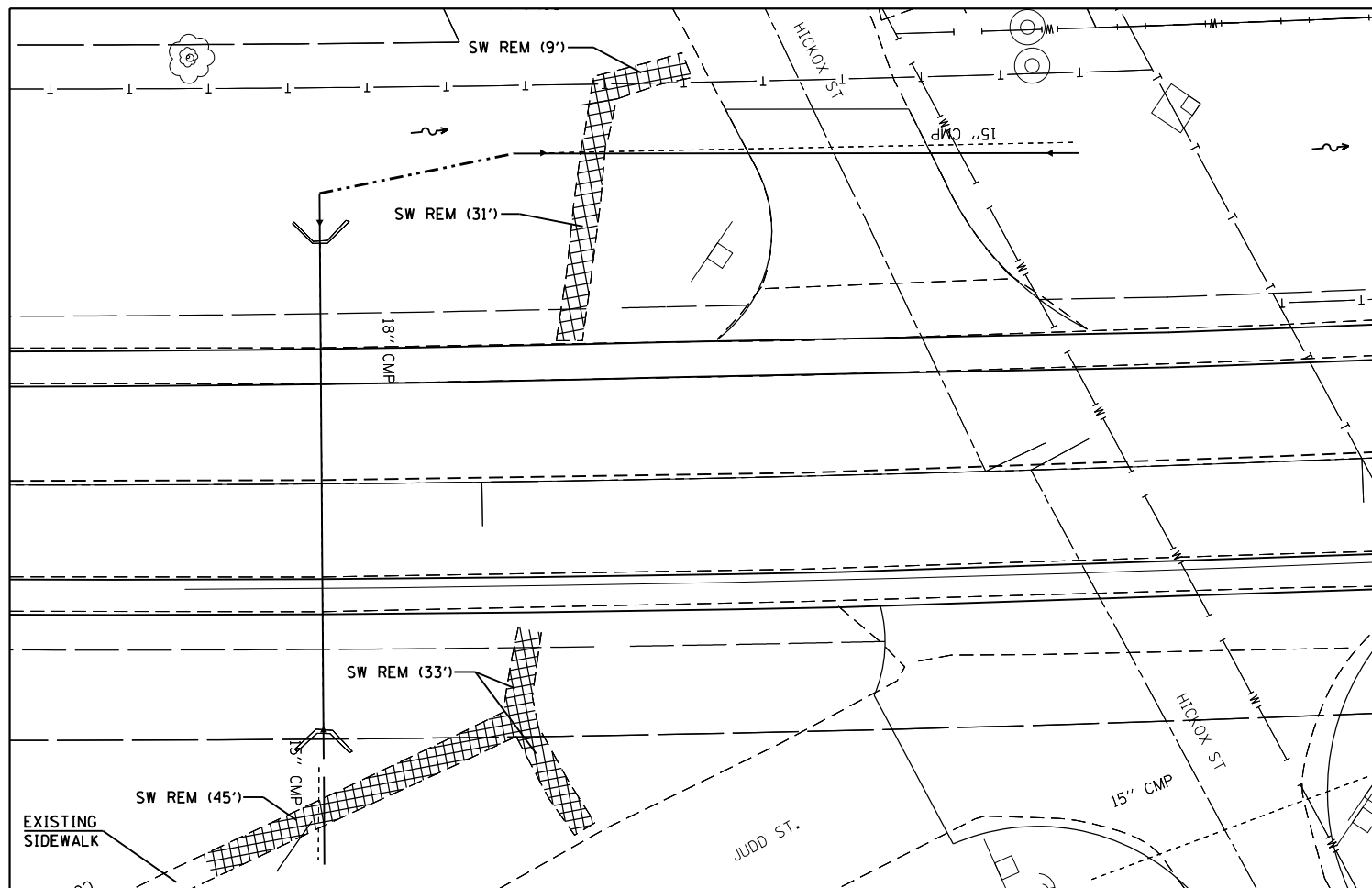
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAIL SHEET
STATION 115 + 50.27

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(DX) SW & (ERS)-2	MACOUPIN	39	31
CONTRACT NO. 72J55				

ILLINOIS FED. AID PROJECT



FILE NAME =	USER NAME = Verenskif	DESIGNED - JWC	REVISED -
p:\IL\084EBID\INTEG\illinois.gov\PIWID\Documents\IDOT Offices\District 6\Projects\0672\Drawings\0672\0672J55 - Sidewalk	DRAWN BY JWC	CHECKED - JWC	REVISED -
Default	PLOT DATE = 2/3/2017	DATE -	REVISED -

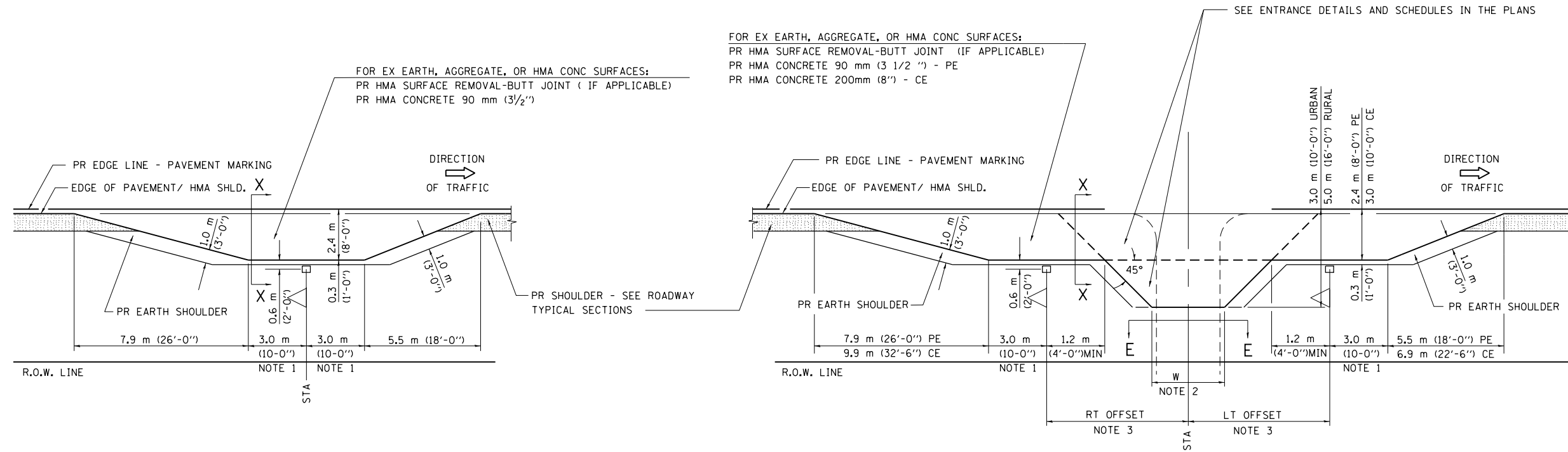
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIDEWALK DETAIL

SCALE: 50 SHEET 1 OF 1 SHEETS STA. TO STA.

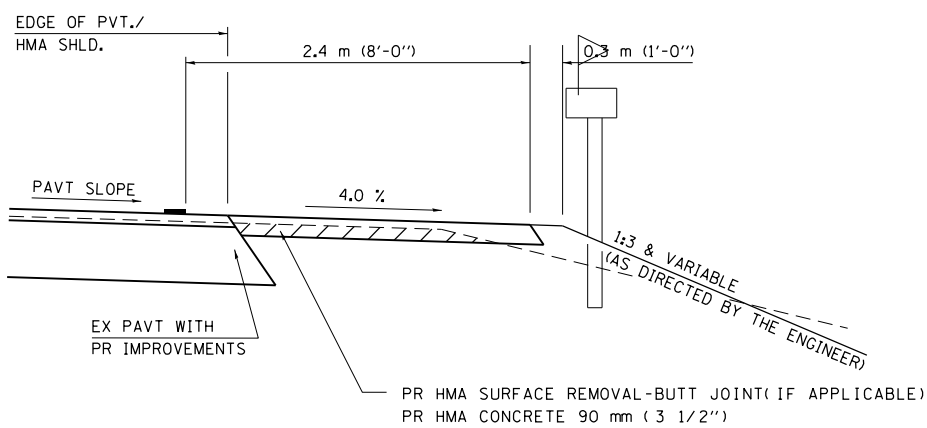
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(DX) SW & (E) RS-2	MACOUPIN	39	32
CONTRACT NO. 72J55			ILLINOIS FED. AID PROJECT	

DETAILS OF MAILBOX TURNOUTS



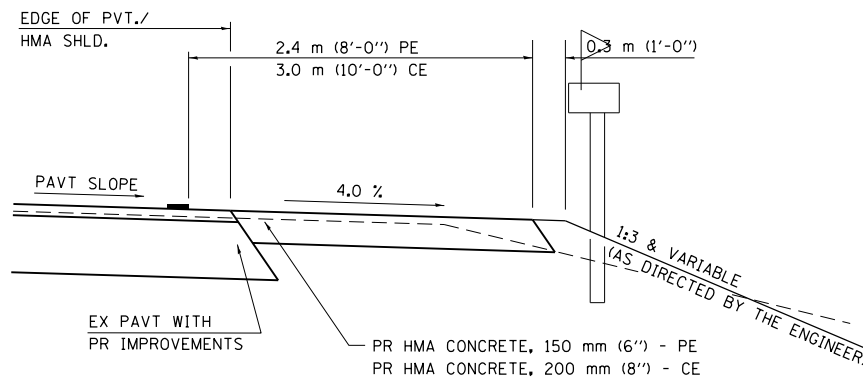
PLAN - MAILBOX TURNOUTS

PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE



**SECTION X-X THRU MAILBOX TURNOUT
ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH
EX EARTH, AGGREGATE, OR HMA PE & FE**

(DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST.
IF EXISTING, TREAT SAME AS ENTRANCE.)



**SECTION X-X THRU MAILBOX TURNOUT
COMBINED WITH EX HMA CONC & PC CONC PE & CE**

(DETAIL APPLIES WHEN M.B. TURNOUT DOES NOT EXIST.
IF EXISTING, TREAT SAME AS ENTRANCE.)

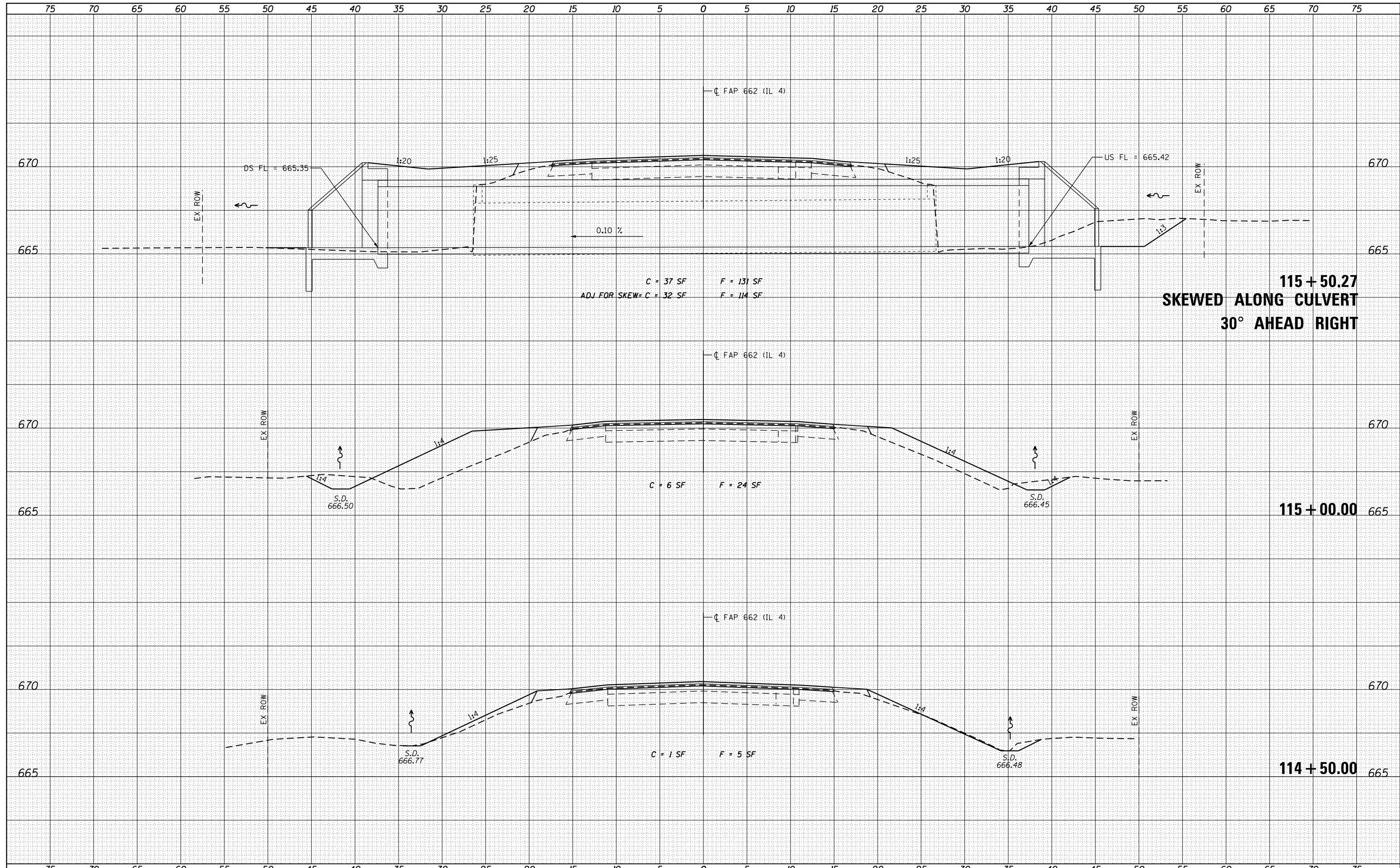
- NOTE 1 IF MORE THAN ONE MAILBOX IS PRESENT, DIMENSION FROM CENTER OF END MAILBOX.
- NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.
- NOTE 3 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)
UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = Verenskif	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ENTRANCE, SIDEROAD, & MAILBOX TURNOUT DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
						662	(DX) SW & (E) RS-2	MACOUPIN	39	35	
						CONTRACT NO. 72J55					
						ILLINOIS FED. AID PROJECT					
Default	PLOT DATE = 2/3/2017	DATE -	REVISED -	SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.				

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

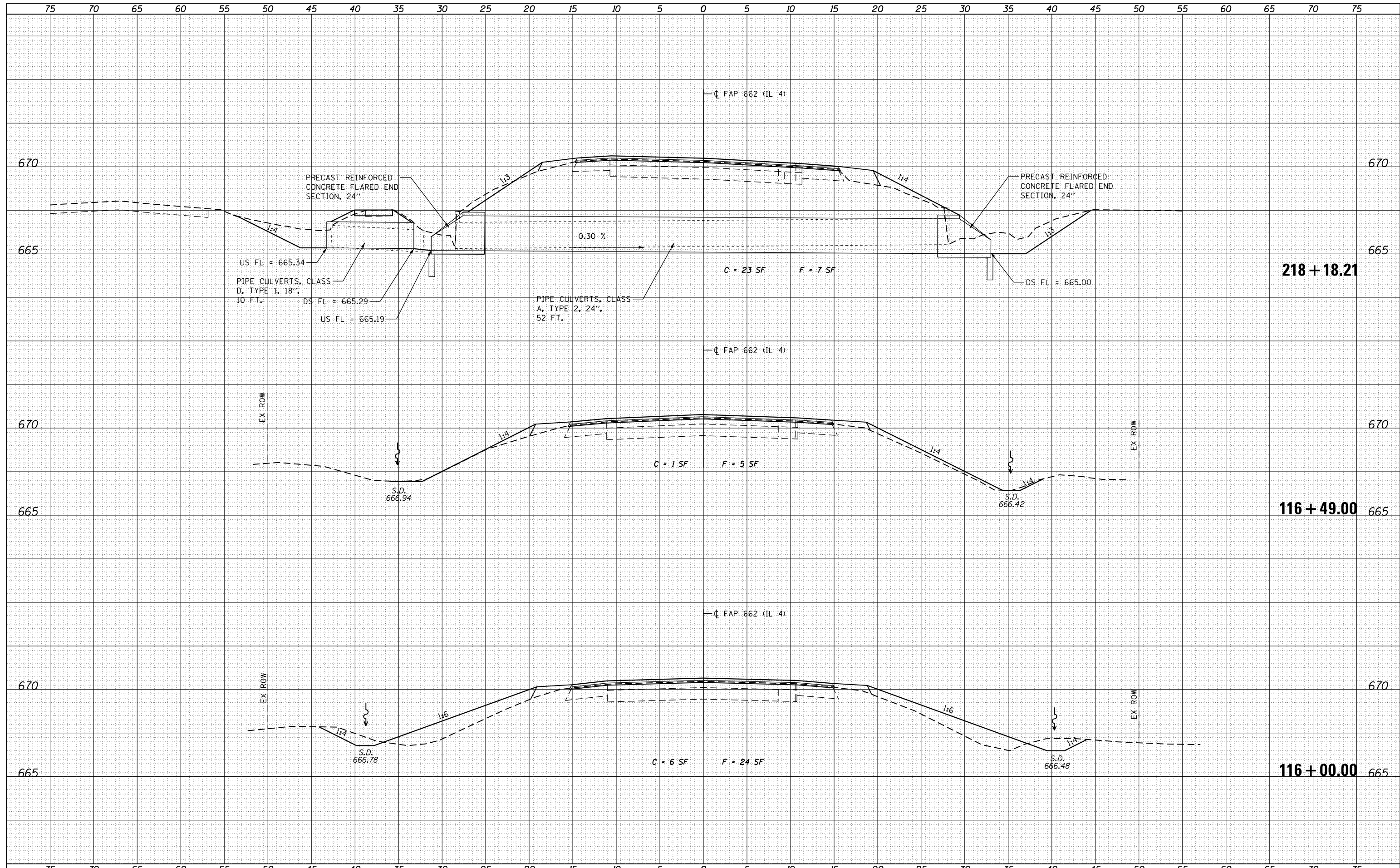
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



FILE NAME =	USER NAME = Verenskifa	DESIGNED - JWS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS SCALE: 1" = 10' SHEET 1 OF 4 SHEETS STA. 114+50.00 TO STA. 115+50.27	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Default	DOT Offices\District 6\Projects\0672\55\CD\DRAWINGS\67255-sht-xsc.dwg	CHECKED - SJK	REVISED -			662	(DX) SW & EIRS-2	MACOUPIN	39	36	
	PLOT SCALE = 10.0000' / in.	DATE -	REVISED -			CONTRACT NO. 72J55					
	PLOT DATE = 2/3/2017		REVISED -			ILLINOIS FED. AID PROJECT					

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

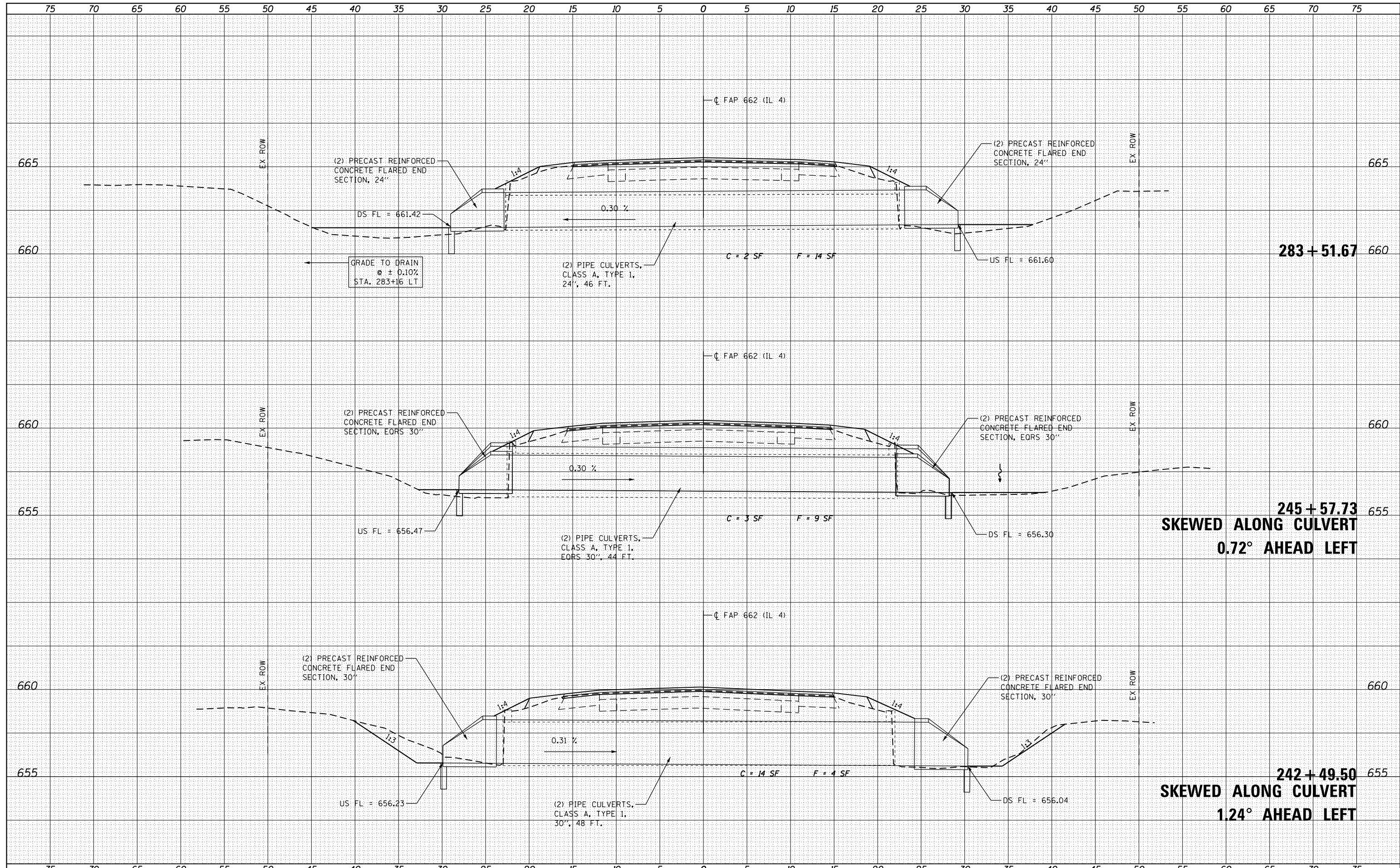


FILE NAME =	USER NAME = Verenskifa	DESIGNED - JWS	REVISOR -	F.A.P. RTE. 662	SECTION (DX) SW & ERS-2	COUNTY MACOUPIN	TOTAL SHEETS 39	SHEET NO. 37
Default	DOT Offices\District 6\Projects\0672\55\CD\DRAWINGS\67255-shd-xsc.dwg	CHECKED - SJK	REVISOR -	CROSS SECTIONS		CONTRACT NO. 72J55		
	PLOT SCALE = 10.0000' / in.	DATE -	REVISOR -	SCALE: 1" = 10'	SHEET 2 OF 4 SHEETS	STA. 116+00.00 TO STA. 218+18.21	ILLINOIS FED. AID PROJECT	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

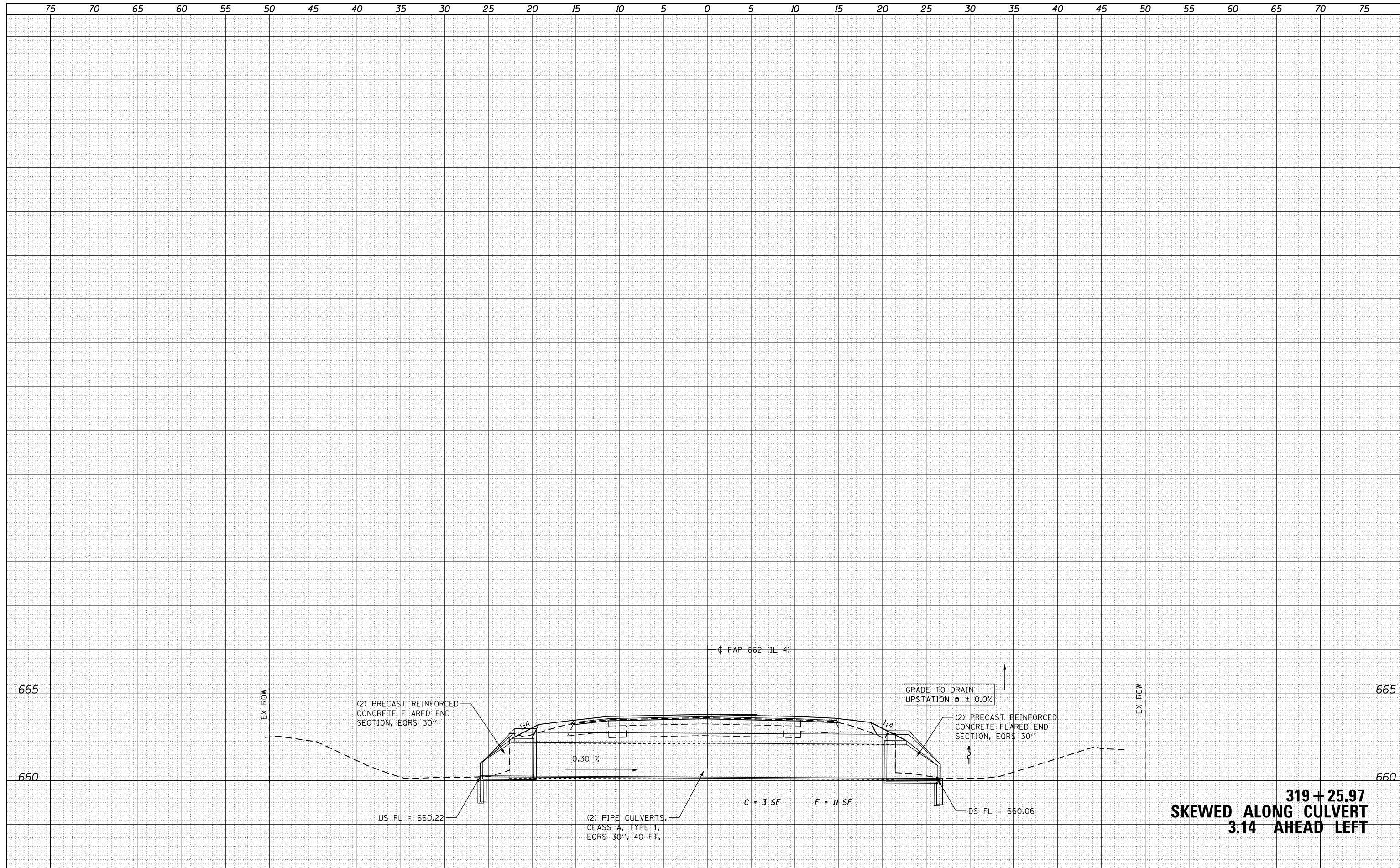


245 + 57.73
SKewed ALONG CULVERT
0.72° AHEAD LEFT

242 + 49.50
SKewed ALONG CULVERT
1.24° AHEAD LEFT

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

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



FILE NAME =
 USER NAME = Verenskifa
 PLOT SCALE = 10.0000 / in.
 PLOT DATE = 2/3/2017

DESIGNED - JWS	REVISOR -
CHECKED - SJK	REVISOR -
DATE -	REVISOR -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS
 SCALE: 1" = 10' SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
662	(DX) SW & (ERS)-2	MACOUPIN	39	39
CONTRACT NO. 72J55			ILLINOIS FED. AID PROJECT	