11-5-2021 LETTING ITEM 063

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59)RS-2	JERSEY	60	1
	ILLINOIS	CONTRACT NO. 76L10		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAS ROUTE 747/FAU ROUTE 8813 (IL 109)
SECTION (57,58,59)RS–2
PROJECT COVD–SZOE(494)
RESURFACING – STANDARD OVERLAY AND ADA IMPROVEMENTS
JERSEY COUNTY

C–98–158–18

FOR INDEX OF SHEETS, SEE SHEET NO. 2

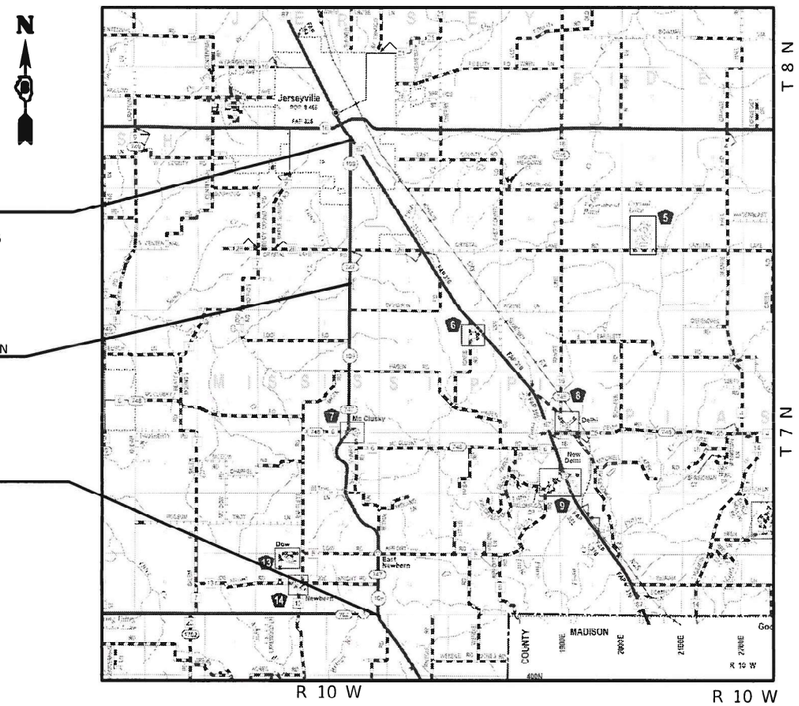
BRIDGE OMISSION

STRUCTURE NO.	LOCATION	DECK LENGTH
042-0025	5.82 M.S. - 5.84 M.S.	125 FT.

TRAFFIC DATA

	US 67 - W. COUNTY RD.	W. COUNTY RD. - BLUEBIRD LN.
ADT (CONSTRUCTION YR):	3600	7300
MU%	0.8	1.4
SU%	2.3	3.5
20 YR. ESAL'S:	0.88	0.88

	BLUEBIRD LN. - CRYSTAL LAKE RD.	CRYSTAL LAKE RD. - IL 3
ADT (CONSTRUCTION YR):	3900	3800
MU%	1.5	0.5
SU%	3.1	2.7
20 YR. ESAL'S:	0.87	0.88



LOCATION MAP

0 MI 1 MI 2 MI 3 MI

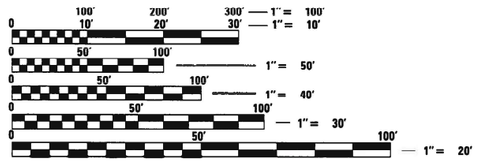
1" = 1 MILE

GROSS LENGTH = 43401.6 FT. = 8.220 MILE

NET LENGTH = 43276.6 FT. = 8.200 MILE

D-98-018-18

LOCATION OF SECTION INDICATED THUS: –



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Aug 4 20 21
OK Roberts JDM
REGIONAL ENGINEER

October 1 20 21
ENGINEER OF DESIGN AND ENVIRONMENT

October 20 21
Stephen M Travis
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROJECT ENGINEER: BILLIE OWEN (618)346–3209
PROJECT MANAGER: PHILLIP FREIMUTH (618)346–3194

CONTRACT NO. 76L10

INDEX OF SHEETS

HIGHWAY STANDARDS (ALSO SEE ADDITIONAL HIGHWAY STANDARDS ON THIS PAGE)

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375MM) THRU 84" (2100 MM) DIAMETER
542201-02	REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS, 15" (375MM) THRU 36" (900MM) DIAMETER SKEWED WITH ROADWAY
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
542411	SLOPED METAL END SECTIONS FOR PIPE CULVERTS 15" (375MM) THRU 60" (1500 MM) DIAMETER
602701-02	MANHOLE STEPS
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
635001-02	DELINEATORS
642006-01	SHOULDER RUMBLE STRIPS, 8 IN
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W SHORT TERM OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTOR LOOPS
B.L.R. 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

GENERAL NOTES

1. UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA:

UTILITY		BELOW GROUND
AMEREN ILLINOIS (GAS & ELECTRIC)	X	X
GRAFTON TELEPHONE COMPANY	X	X
FRONTIER COMMUNICATIONS	X	X
AT&T ILLINOIS (COMMUNICATIONS)	X	X
JERSEY COUNTY RURAL WATER COMPANY		X
CITY OF JERSEYVILLE (WATER & SANITARY SEWER)		X
M.J.M. ELECTRIC COOPERATIVE, INC.	X	X
NEWWAVE COMMUNICATIONS (CABLE TV)	X	X
NUSTAR PIPELINE OPERATING PARTNERSHIP L.P.		X

2. NO SURVEY WAS PERFORMED FOR THIS PROJECT AND THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS.

3. THE PROPOSED PAVEMENT MARKING SHALL MATCH THE SAME LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.

4. ONLY SHORT TERM PAVEMENT MARKING REMOVAL FROM FINAL SURFACE SHALL BE PAID FOR AS SHORT TERM PAVEMENT MARKING REMOVAL.

5. AN EMPTIED MATERIAL TRANSFER DEVICE IS ALLOWED OVER STRUCTURES SN 042-0025, SN 042-2006, SN 042-2462, SN 042-2463, SN 042-2464, SN 042-2465, SN 042-2466 AND SN 042-2467.

6. IF THE PROPOSED SURFACE REMOVAL ON THIS PROJECT PRODUCES A MILLED EDGE NEAR CENTERLINE GREATER THAN 1.5 INCHES OR IF THE PROPOSED RESURFACING RESULTS IN AN ELEVATION DIFFERENCE GREATER THAN 2 INCHES NEAR THE CENTERLINE BETWEEN ADJACENT OPEN LANES OF TRAFFIC, ONE OF THE FOLLOWING SHALL APPLY:

   * THE CONTRACTOR SHALL ORGANIZE THE WORK TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.
   * THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY HOT MIX ASPHALT WEDGE ALONG THE CENTERLINE TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.
   * THE CONTRACTOR SHALL CONSTRUCT A MILLED SLOPE EDGE (MINIMUM 1:3) ALONG THE CENTERLINE TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.

   THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST PER SQUARE YARD FOR HOT-MIX ASPHALT SURFACE REMOVAL OF THE DEPTH SPECIFIED OR IN THE COST PER TON FOR THE HOT-MIX ASPHALT RESURFACING MIXES SPECIFIED IN THE PLANS.

7. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING AND/OR INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES WITHIN THE PROJECT LIMITS. IF HIGHWAY LIGHTING AND/OR I.T.S. EXISTS WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

8. THE RIGHT-OF-WAY OR PROPERTY CORNER IS MONUMENTED WITH A 5/8" IRON ROD, THIRTY INCHES (30") IN LENGTH, WITH AN IDOT ALUMINUM CAP THAT SHALL NOT BE REMOVED, DAMAGED OR DISTURBED WHEN SETTING THE RIGHT-OF-WAY MARKER. THE RIGHT-OF-WAY MARKER SHALL BE INSTALLED SO THAT THE BACK OF THE POST IS TWELVE INCHES (12") INSIDE THE RIGHT-OF-WAY BOUNDARY. THE RIGHT-OF-WAY MARKER SHALL BE A WITNESS TO THE MONUMENT

COMMITMENTS

1. TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30.

2. THERE IS FIELD DRAIN TILE LOCATED ON PARCEL 8006002, WEST OF SN 042-2403. THE DRAIN TILE CURRENTLY TIES INTO A RETAINING WALL THAT WILL BE REMOVED FOR THE CULVERT EXTENSION. THE DRAIN TILE SHALL REMAIN OPEN AT ALL TIMES. THE DRAIN TILE SHALL BE CUT BACK FOR THE NEW SLOPES AND THE NEW FLOWLINE SHALL BE LINED WITH RIPRAP.

3. PARCEL 8006001 - HALL FAMILY TRUST - PLEASE CONTACT EITHER CAROL SKASICK (CO-TRUSTEE,HALL FAMILY TRUST) - (618) 616-6353 OR KEVIN HALL (CO-TRUSTEE, HALL FAMILY TRUST) - (618) 946-1015 (CELL); (618) 885-5815 (LANDLINE) ONE MONTH BEFORE CONSTRUCTION IS SET TO BEGIN.

ADDITIONAL HIGHWAY STANDARDS

602416-09	PRECAST MANHOLE, TYPE A, 8'(2.44M) DIAMETER
604001-05	FRAME AND LIDS, TYPE 1
666001-01	RIGHT OF WAY MARKERS

9. IF THE CONTRACTOR, FOR HIS CONSTRUCTION ACTIVITY, REMOVES TREES WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT DESIGNATED ON THE PLANS FOR REMOVAL, I.E. IN ORDER TO GAIN ACCESS TO THE PROJECT SITE; IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TREES WILL BE REPLACED WITH A 1 GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

10. THE DISTRIC LAND ACQUISTION SECTION SHALL BE CONTACTED IF DIFFERENCES ARE IDENTIFIED BETWEEN ANY PROPOSED RIGHT-OF-WAY OR EASEMENT SHOWN ON THE ENGINEERING PLAN SHEETS AS COMPARED TO THE SAME PROPOSED RIGHT-OF-WAY OR EASEMENT SHOWN ON THE PLAT OF HIGHWAYS QUESTIONS OR CONCERNS REGARDING THESE ITEMS SHOULD BE DIRECTED TO CLINT MARSHALL AT (618)346-3124.

11. ALL EXISTING AND PROPOSED RIGHT-OF-WAY LINES AND PROPERTY LINES SHOWN ON THE ROADWAY PLAN SHEETS ARE GRAPHICAL REPRESENTATIONS AND SHALL NOT BE USED AS A MEANS TO ESTABLISH OWNERSHIP. IN ALL MATTERS RELATING TO RIGHT-OF-WAY. THE PLAT OF HIGHWAYS SHALL BE THE CONTROLLING DOCUMENT.

12. IF ANY SECTION OR SUB-SECTION MONUMENT (I.E. STONE, BRASS PLUG, ALUMINUM DISK, IRON PIPE OR PIN, MAG NAIL, CROSS, ETC.), IS ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENT IS REMOVED OR RESURFACED OVER. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE THE MONUMENT IN PLACE UNTIL AN ILLINOIS PROFESSIONAL LAND SURVEY WITH A DEPARTMENT PREQUALIFICATION I "SPECIAL SERVICES - SURVEYING" HAS REFERENCED ITS LOCATION.

13. ANY MONUMENT OR PROPERTY CORNER TO BE SET SHALL BE SET BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH A DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES- SURVEYING".

14. THE RIGHT-OF-WAY, PERMANENT EASMENTS AND TEMPORARY EASEMENTS SHALL BE STAKED PRIOR TO ANY CONSTRUCTION OPERATIONS. STAKES SHALL BE PLACED SUCH THAT THEY ARE VISIBLE FROM EACH OTHER AND ARE SUFFICIENTLY SPACED TO DETERMINE THE LOCATION OF THE RIGHT-OF-WAY OR EASEMENT IN ANY LOCATION. THE RIGHT-OF-WAY SHALL BE STAKED BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR WITH A DEPARTMENT PREQUALIFICATION IN "SPECIAL SERVICES - SURVEYING". THIS WORK SHALL BE INCLUDED IN THE LUMP SUM COST FOR CONSTRUCTION LAYOUT.

MIXTURE REQUIREMENTS

ROUTE	FAP 747/FAP 8813 (IL 109)
SECTION	(57,58,59)RS-2
COUNTY	JERSEY
CONTRACT	76L10

DESCRIPTION	RESURFACING - STANDARD OVERLAY - IL 109 FROM IL 3 TO US 67 IN JERSEYVILLE

ADT (CONSTRUCTION YR):	4450
MU%	1.8
SU%	2.3
20 YR. ESAL'S:	0.87

MIXTURE USE	SURFACE	BINDER	PATCHING
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0%@ Ndes=70	4.0%@ Ndes=70	4.0%@ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 9.5FG	IL 19.0
FRICTION AGG	MIXTURE "C"	MIXTURE "C"	MIXTURE "B"
QUALITY MGMT PROGRAM	QCP	QCP	QC/QA

MIXTURE USE	SHOULDERS (LOWER)	SHOULDERS (SURFACE)	INCIDENTAL
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION	SEE SPECIAL PROVISION
DESIGN AIR VOIDS	4.0% @ Ndes=30	4.0% @ Ndes=30	4.0%@ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 19.0L	IL 9.5L	IL 9.5
FRICTION AGG			
QUALITY MGMT PROGRAM	QC/QA	QC/QA	QC/QA

REV. - MS

USER NAME = murrayda	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 9/1/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, HIGHWAY STANDARDS
GENERAL NOTES & COMMITMENTS

SCALE: _____ | SHEET 1 OF 1 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59)RS-2	JERSEY	60	2
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		

CODE NO.	ITEM	UNIT	100% FEDERAL TOTAL QUANTITY	CONSTRUCTION CODE FAS RTE 747 ROADWAY 0005 RURAL	 FAS RTE 747 ROADWAY 0005 URBAN	 FAS RTE 747 BOX CULVERT 0004 042-2403 RURAL	 FAU RTE 8813 ROADWAY 0005 URBAN
20100500	TREE REMOVAL, ACRES	ACRE	0.75	0.40		0.35	
20200100	EARTH EXCAVATION	CU YD	840	610		230	
20300100	CHANNEL EXCAVATION	CU YD	170	20		150	
20400800	FURNISHED EXCAVATION	CU YD	210			210	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	168	95		73	
20800150	TRENCH BACKFILL	CU YD	49	10		39	
25000200	SEEDING, CLASS 2	ACRE	0.75	0.40		0.35	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	56	30		26	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	56	30		26	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	56	30		26	
25100115	MULCH, METHOD 2	ACRE	0.75	0.40		0.35	
25100630	EROSION CONTROL BLANKET	SQ YD	1170	506		664	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	30	13		17	
28000305	TEMPORARY DITCH CHECKS	FOOT	370	186		184	

MODEL: sMODELNAMES
FILE NAME: pw:\\dmroom.dot.illinois.gov:PWIDOT Documents\IDOT Offices\District 8\Projects\08761L10\CADData\CADSheets\08761L10-sht-plan.dgn

USER NAME = murrayda	DESIGNED - _____	REVISED - _____	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 8/11/2021	DATE - _____	REVISED - _____	

SUMMARY OF QUANTITIES

SCALE: _____ | SHEET 1 OF 7 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59)RS-2	JERSEY	60	3
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	100% FEDERAL TOTAL QUANTITY	CONSTRUCTION CODE FAS RTE 747 ROADWAY 0005 RURAL	FAS RTE 747 ROADWAY 0005 URBAN	FAS RTE 747 BOX CULVERT 0004 042-2403 RURAL	FAU RTE 8813 ROADWAY 0005 URBAN
28100109	STONE RIPRAP, CLASS A5	SQ YD	254	207		47	
28200200	FILTER FABRIC	SQ YD	254	207		47	
35101400	AGGREGATE BASE COURSE, TYPE B	TON	6				6
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	16	16			
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	11	11			
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	220	108			112
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	90401	70648	11199	16	8538
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	601	461	47		93
40600990	TEMPORARY RAMP	SQ YD	993	449	53		491
40602970	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	TON	8082	6279	995		808
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	9699	7534	1195		970
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	362	291	29		42
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	36	29.5	2.6		3.9
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	126				126

CODE NO.	ITEM	UNIT	100% FEDERAL TOTAL QUANTITY	CONSTRUCTION CODE FAS RTE 747 ROADWAY 0005 RURAL	 FAS RTE 747 ROADWAY 0005 URBAN	 FAS RTE 747 BOX CULVERT 0004 042-2403 RURAL	 FAU RTE 8813 ROADWAY 0005 URBAN
42400800	DETECTABLE WARNINGS	SQ FT	28				28
44000100	PAVEMENT REMOVAL	SQ YD	152				152
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	138160	17776	112112		8272
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	4928				4928
44000600	SIDEWALK REMOVAL	SQ FT	93				93
44004250	PAVED SHOULDER REMOVAL	SQ YD	50	28		22	
44200211	PAVEMENT PATCHING, TYPE IV, 18 INCH	SQ YD	192	107		85	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	2532	1966	312	2	252
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	50	28		22	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	4256	3453	548		255
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1			1	
50102400	CONCRETE REMOVAL	CU YD	5	2		3	
50105220	PIPE CULVERT REMOVAL	FOOT	98	98			
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2			2	

USER NAME = murrayda	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 8/11/2021	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: _____ | SHEET 3 OF 7 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59)RS-2	JERSEY	60	5
		CONTRACT NO. 76L10		
		ILLINOIS	FED. AID PROJECT	

CODE NO.	ITEM	UNIT	100% FEDERAL TOTAL QUANTITY	CONSTRUCTION CODE			
				FAS RTE 747 ROADWAY 0005 RURAL	FAS RTE 747 ROADWAY 0005 URBAN	FAS RTE 747 BOX CULVERT 0004 042-2403 RURAL	FAU RTE 8813 ROADWAY 0005 URBAN
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2	2			
54010505	PRECAST CONCRETE BOX CULVERTS 5' X 5'	FOOT	91	91			
54010605	PRECAST CONCRETE BOX CULVERTS 6' X 5'	FOOT	67			67	
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	131	131			
54213450	END SECTIONS 15"	EACH	2	2			
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	141	68		73	
60224459	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1			
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	43				43
63500105	DELINEATORS	EACH	4	2		2	
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	86809	67481	10666		8662
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	16	16			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	9.4	1.4		1.2
67100100	MOBILIZATION	L SUM	1	0.8	0.1		0.1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.8	0.1		0.1

MODEL: $MODELNAME$
FILE NAME: z:\dlarnoom.dot.illinois.gov\PWIDOT\Documents\IDOT Offices\District 8\Projects\D8761.10\CADData\CADsheets\D8761L10-plt-plan.dgn

USER NAME = murrayda	DESIGNED - _____	REVISED - _____	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 8/11/2021	DATE - _____	REVISED - _____	

SUMMARY OF QUANTITIES

SCALE: _____ | SHEET 4 OF 7 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59)RS-2	JERSEY	60	6
		CONTRACT NO. 76L10		
		ILLINOIS	FED. AID PROJECT	

				100% FEDERAL	CONSTRUCTION CODE			
					FAS RTE 747	FAS RTE 747	FAS RTE 747	FAU RTE 8813
					ROADWAY	ROADWAY	BOX CULVERT	ROADWAY
CODE NO.	ITEM	UNIT	TOTAL QUANTITY		0005	0005	0004	0005
					RURAL	URBAN	042-2403 RURAL	URBAN
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1		0.8	0.1		0.1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1					1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1		0.8	0.1		0.1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1					1
70107025	CHANGEABLE MESSAGE SIGN	CAL DAY	56		28		28	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	12840		9900	1470		1470
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1460		1122	164		174
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	123628		98827	11900		12901
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	277					277
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	35					35
72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	1					1
* 72400600	RELOCATE SIGN PANEL ASSEMBLY - TYPE B	EACH	1					1
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	123628		98827	11900		12901
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	277					277

* SPECIALTY ITEM

MODEL: SMODELNAMES
FILE NAME: pw:\\Bureaurom.dot.illinois.gov:PWIDOT Documents:IDOT Offices:District 8:Projects:D8761L10:CADData:CADSheets:D8761L10-smt-plan.dgn

USER NAME = murrayda	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 8/11/2021	DATE - _____	REVISED - _____	

SUMMARY OF QUANTITIES

SCALE: _____ | SHEET 5 OF 7 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59)RS-2	JERSEY	60	7
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	100% FEDERAL TOTAL QUANTITY	CONSTRUCTION CODE			
					FAS RTE 747 ROADWAY 0005 RURAL	FAS RTE 747 ROADWAY 0005 URBAN	FAS RTE 747 BOX CULVERT 0004 042-2403 RURAL	FAU RTE 8813 ROADWAY 0005 URBAN
*	78000620	THERMOPLASTIC PAVEMENT MARKING - LINE 18"	FOOT	48	48			
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	35				35
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	552	428	68		56
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	552	428	68		56
*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	662				662
	X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	141	68		73	
	X6660445	RIGHT-OF-WAY AND PROPERTY CORNERS	EACH	1	1			
	X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	0.5		0.5	
	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	41585	32962	3967		4656
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5		0.5	
	Z0016702	DETOUR SIGNING	L SUM	1	0.5		0.5	
	Z0023500	FILLING EXISTING CULVERTS	CU YD	49	49			
	Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	43296	33634	5332		4330
	Z0034105	MATERIAL TRANSFER DEVICE	TON	17781	13813	2190		1778
*	Z0054517	ROCK FILL - FOUNDATION	TON	59	39		20	

* SPECIALTY ITEM

REV. - MS

MODEL: $MODELNAME$
FILE NAME: pw:\\dalmroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\D8 76L10\CADData\CADSheets\D876L10-sht-plan.dgn

USER NAME = murrayda	DESIGNED - _____	REVISED - _____	
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 8/11/2021	DATE - _____	REVISED - _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: _____ | SHEET 6 OF 7 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59)RS-2	JERSEY	60	8
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		

				100% FEDERAL	CONSTRUCTION CODE			
					FAS RTE 747	FAS RTE 747	FAS RTE 747	FAU RTE 8813
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0005 RURAL	ROADWAY 0005 URBAN	BOX CULVERT 0004 042-2403 RURAL	ROADWAY 0005 URBAN
	Z0070100	SURVEY MONUMENT COVER ASSEMBLY	EACH	13	10	1		2
Ø	Z0076600	TRAINEES	HOUR	1000	1000			
Ø	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1000	1000			

Ø 0042

REV. - MS

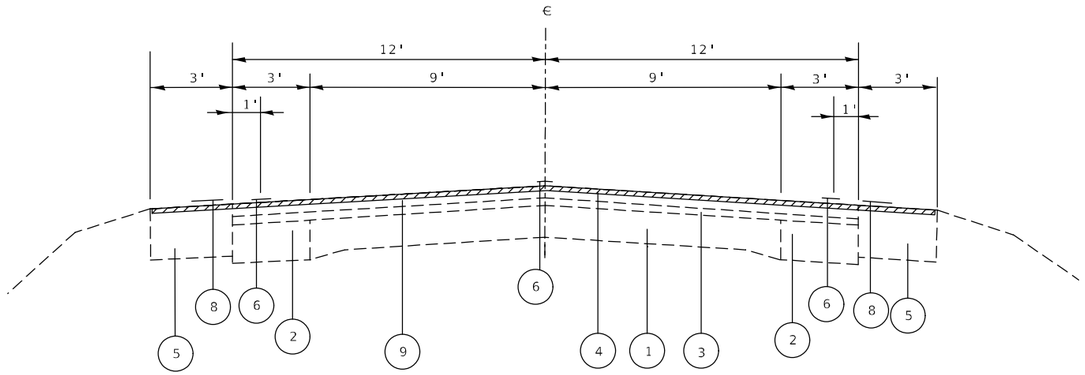
MODEL: SMODELNAMES
FILE NAME: pw:\\dbmoom.dot.illinois.gov:PWIDOTDocuments:IDOT Offices:District 8\Projects\D876L10\CADData\CADsheets\D876L10s-int-plan.dgn

USER NAME = murrayda	DESIGNED - _____	REVISED - _____	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 8/11/2021	DATE - _____	REVISED - _____	

SUMMARY OF QUANTITIES

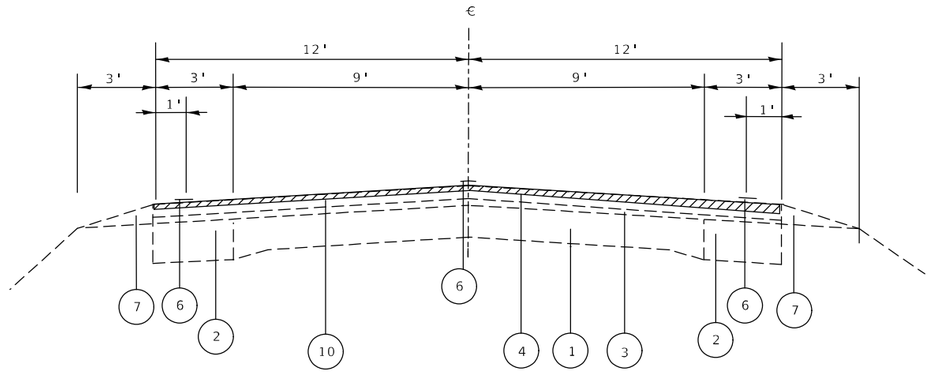
SCALE: _____ | SHEET 7 OF 7 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59)RS-2	JERSEY	60	9
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL SECTION

IL 109
MILE STATION 0.0 TO MILE STATION 7.87



EXISTING TYPICAL SECTION

IL 109
MILE STATION 7.87 TO MILE STATION 8.22

LEGEND

1. EXISTING CONCRETE PAVEMENT (9"-6"-9")
2. EXISTING BASE COURSE WIDENING (BITUMINOUS), 9"
3. EXISTING LEVELING BINDER, TYPE 2, VAR 0" TO 3 1/4"
4. EXISTING BITUMINOUS OVERLAY, VAR. 6 1/2" TO 8"
5. EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
6. EXISTING THERMOPLASTIC PAVEMENT MARKING - LINE 4"
7. EXISTING AGGREGATE WEDGE, TYPE A
8. EXISTING SHOULDER RUMBLE STRIPS, 8"
9. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2"
10. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
11. PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL - 9.5FG, N70, 1 1/4"
12. PROPOSED BITUMINOUS MATERIALS (TACK COAT)
13. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1 1/2"
14. PROPOSED HOT-MIX ASPHALT SHOULDERS
15. PROPOSED AGGREGATE WEDGE SHOULDERS, TYPE B
16. PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 4"
17. PROPOSED LONGITUDINAL JOINT SEALANT
18. PROPOSED SHOULDER RUMBLE STRIPS, 8"

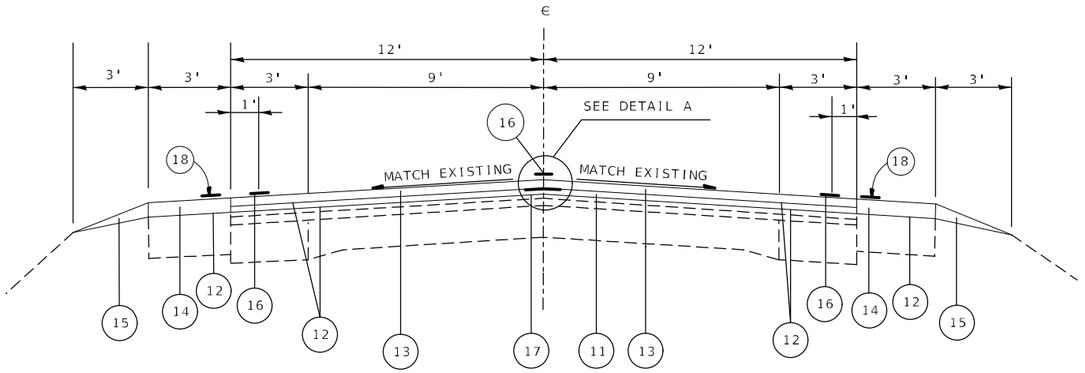
USER NAME = murrayda	DESIGNED - _____	REVISED - _____	
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 8/2/2021	DATE - _____	REVISED - _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

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

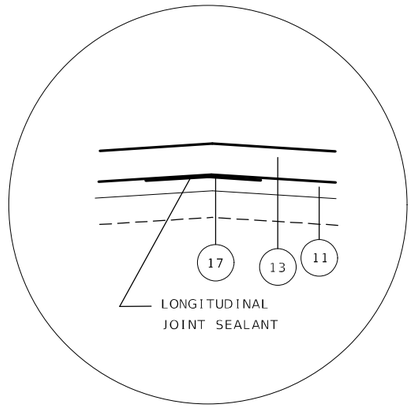
F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59) RS-2	JERSEY	60	10
		CONTRACT NO. 76L10		
		ILLINOIS	FED. AID PROJECT	



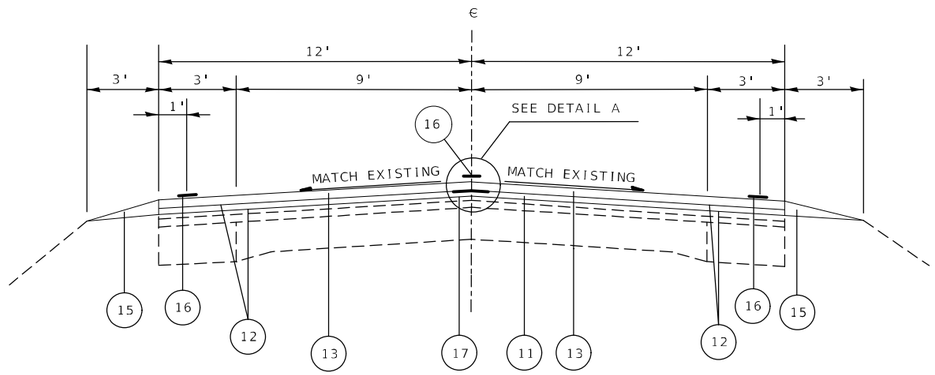
PROPOSED TYPICAL SECTION

IL 109

MILE STA. 0.00 TO MILE STA. 7.87



DETAIL A



PROPOSED TYPICAL SECTION

IL 109

MILE STATION 7.87 TO MILE STATION 8.22

LEGEND

1. EXISTING CONCRETE PAVEMENT (9"-6"-9")
2. EXISTING BASE COURSE WIDENING (BITUMINOUS), 9"
3. EXISTING LEVELING BINDER, TYPE 2, VAR 0" TO 3 1/4"
4. EXISTING BITUMINOUS OVERLAY, VAR. 6 1/2" TO 8"
5. EXISTING HOT-MIX ASPHALT SHOULDERS, 8"
6. EXISTING THERMOPLASTIC PAVEMENT MARKING - LINE 4"
7. EXISTING AGGREGATE WEDGE, TYPE A
8. EXISTING SHOULDER RUMBLE STRIPS, 8"
9. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2"
10. PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
11. PROPOSED HOT-MIX ASPHALT BINDER COURSE, IL - 9.5FG, N70, 1 1/4"
12. PROPOSED BITUMINOUS MATERIALS (TACK COAT)
13. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70, 1 1/2"
14. PROPOSED HOT-MIX ASPHALT SHOULDERS
15. PROPOSED AGGREGATE WEDGE SHOULDERS, TYPE B
16. PROPOSED THERMOPLASTIC PAVEMENT MARKING - LINE 4"
17. PROPOSED LONGITUDINAL JOINT SEALANT
18. PROPOSED SHOULDER RUMBLE STRIPS, 8"

MODEL: $MODELNAME$
FILE NAME: pw:\\dimroom.dot.illinois.gov:PWIDOTIDocuments\IDOT Offices\District 8\Projects\10876L10\CADData\CADsheets\10876L10-sht-plan.dgn

USER NAME = murrayda	DESIGNED - _____	REVISED - _____	**STATE OF ILLINOIS**
	DRAWN - _____	REVISED - _____	**DEPARTMENT OF TRANSPORTATION**
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 8/2/2021	DATE - _____	REVISED - _____	

TYPICAL SECTIONS

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

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59) RS-2	JERSEY	60	11
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		

RESURFACING SCHEDULE

MILE STATION TO MILE STATION			DIMENSION	HMA SURFACE REMOVAL 2 "	HMA SURFACE REMOVAL 2.5 "	BITUMINOUS MATERIALS (TACK COAT)	LONGITUDINAL JOINT SEALANT	HMA BINDER COURSE, IL-9.5FG, N70	HMA SURFACE COURSE, MIX C, N70	HMA SHOULDERS	AGGREGATE WEDGE SHOULDER TYPE B
			WIDTH								
			FOOT	SQ YD	SQ YD	POUND	FOOT	TON	TON	TON	TON
MAINLINE											
0.00	-	0.07	24	986		665	370	69.0	82.8		
0.07	-	5.82	24	80960		54648	30360	5667.2	6800.6		
5.82	-	5.84	BRIDGE OMISSION								
5.84	-	6.62	24	10982		7413	4118	768.8	922.5		
6.62	-	6.74	24	1690		1140	634	118.3	141.9		
6.74	-	7.87	24	15910		10740	5966	1113.7	1336.5		
7.87		7.90	24		422	285	158	29.6	35.5		
7.90	-	8.21	24		4365	2946	1637	305.5	366.6		
8.21	-	8.22	24		141	95	53	9.9	11.8		
SHOULDERS											
0.00	-	0.07	6	246		111				37.9	21.6
0.07	-	5.82	6	20240		9108				3117.0	1771.0
5.82	-	5.84	BRIDGE OMISSION								
5.84	-	6.62	6	2746		1236				422.8	240.2
6.62	-	6.74	6	422		190				65.0	37.0
6.74	-	7.87	6	3978		1790				612.6	348.0
7.87		7.90									9.2
7.90	-	8.21									95.5
8.21	-	8.22									3.1
TOTAL:				138160	4928	90367	43296	8082	9699	4256	2526

BUTT JOINT SCHEDULE

LOCATION		DIRECTION	EXISTING MATERIAL	HMA SURFACE REMOVAL BUTT-JOINT			TEMPORARY RAMPS, 2.50"			TEMPORARY RAMPS, 2"			TEMPORARY RAMPS, 1.25"			TEMPORARY RAMPS, .75"		
MILE STATION	NAME			WIDTH	LENGTH	SQ YD	WIDTH	LENGTH	SQ YD	WIDTH	LENGTH	SQ YD	WIDTH	LENGTH	SQ YD	WIDTH	LENGTH	SQ YD
0.00	BEGIN OF PROJECT	MAINLINE	HMA	24	15	40.0				24	6.7	17.8				24	2.5	6.7
0.02	IL 3	LEFT	HMA	50	3.5	19.4				50	2	11.1				50	2	11.1
0.23	NELLIES RIDGE	LEFT	PCCP							80	2	17.8				80	2	17.8
0.51	JOE KNIGHT RD.	LEFT	HMA	70	3.5	27.2				70	2	15.6				70	2	15.6
1.02	DOW RD.	LEFT	HMA	70	3.5	27.2				70	2	15.6				70	2	15.6
1.02	AIRPORT RD.	RIGHT	HMA	65	3.5	25.3				65	2	14.4				65	2	14.4
2.24	BETHEL LN.	LEFT	HMA	50	3.5	19.4				50	2	11.1				50	2	11.1
2.24	BETHEL LN.	RIGHT	HMA	70	3.5	27.2				70	2	15.6				70	2	15.6
3.37	MCCLUSKY RD.	LEFT	HMA	85	3.5	33.1				85	2	18.9				85	2	18.9
3.37	MCCLUSKY RD.	RIGHT	HMA	105	3.5	40.8				105	2	23.3				105	2	23.3
3.43	MCCLUSKY TR.	RIGHT	HMA	55	3.5	21.4				55	2	12.2				55	2	12.2
4.38	HAGEN RD.	LEFT	HMA	70	3.5	27.2				70	2	15.6				70	2	15.6
4.38	HAGEN RD.	RIGHT	HMA	75	3.5	29.2				75	2	16.7				75	2	16.7
4.88	LODI RD.	LEFT	HMA	65	3.5	25.3				65	2	14.4				65	2	14.4
5.39	DAVIDSON RD.	RIGHT	HMA	45	3.5	17.5				45	2	10.0				45	2	10.0
5.82	SN 042-0025	MAINLINE	HMA	24	15	40.0												
5.84	SN 042-0025	MAINLINE	HMA	24	15	40.0												
6.39	CRYSTAL LAKE RD.	LEFT	HMA	60	3.5	23.3				60	2	13.3				60	2	13.3
6.39	CRYSTAL LAKE RD.	RIGHT	HMA	60	3.5	23.3				60	2	13.3				60	2	13.3
7.40	BLUEBIRD LN.	LEFT	HMA	35	3.5	13.6				35	2	7.8				35	2	7.8
7.68	COMMERCE BLVD.	LEFT	HMA	70	3.5	27.2				70	2	15.6				70	2	15.6
7.79	ESSEX ST.	RIGHT	HMA	90	3.5	35.0				90	2	20.0				90	2	20.0
7.85	ROSEWOOD DR.	RIGHT	HMA	45	3.5	17.5				45	2	10.0				45	2	10.0
7.87	W COUNTY RD.	LEFT	HMA				85	2	18.9				85	2	18.9			
7.87	W COUNTY RD.	RIGHT	HMA				75	2	16.7				75	2	16.7			
7.96	KIRBY ST.	RIGHT	HMA				50	2	11.1				50	2	11.1			
8.02	MARION ST.	RIGHT	HMA				40	2	8.9				40	2	8.9			
8.03	WALTON AVE.	LEFT	HMA				50	2	11.1				50	2	11.1			
8.07	HAZEL ST.	RIGHT	HMA				50	2	11.1				50	2	11.1			
8.09	LEONARD AVE.	LEFT	HMA				42	2	9.3				42	2	9.3			
8.15	FLETCHER ST.	LEFT	HMA				45	2	10.0				45	2	10.0			
8.20	ANDREW AVE.	LEFT	HMA				35	2	7.8				35	2	7.8			
8.22	END OF PROJECT	MAINLINE	HMA				125	8.33	115.7				125	4.17	57.9			
SUBTOTAL:						601			221			310			163			299
TOTAL:						601	993											

MODEL: SMODELNAMES
FILE NAME: pw:\\uhroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\D8761L0\CADData\CADsheets\D8761L0-slt-plan.dgn

USER NAME = murrayda	DESIGNED - _____	REVISED - _____	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 7/29/2021	DATE - _____	REVISED - _____	

SCHEDULE OF QUANTITIES

SCALE: _____ | SHEET 1 OF 5 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59) RS-2	JERSEY	60	12
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			

ENTRANCE SCHEDULE

LOCATION		LENGTH	WIDTH	AREA	BITUMINOUS MATERIALS (TACK COAT)	INCIDENTAL HMA SURFACING
MILE STATION	DIRECTION	FOOT	FOOT	SQ YD	POUND	TON
1.15	LEFT	30	3	10.0	4.5	0.4
1.29	LEFT	50	3	16.7	7.5	0.7
1.42	LEFT	26	3	8.7	3.9	0.4
1.51	LEFT	27.5	3	9.2	4.1	0.4
1.55	LEFT	32.5	3	10.8	4.9	0.5
2.49	LEFT	31.5	3	10.5	4.7	0.4
2.84	RIGHT	17.5	3	5.8	2.6	0.2
2.85	RIGHT	17.5	3	5.8	2.6	0.2
2.91	RIGHT	31.5	3	10.5	4.7	0.4
3.09	LEFT	47.5	3	15.8	7.1	0.7
3.23	RIGHT	24	3	8.0	3.6	0.3
3.37	LEFT	27.5	3	9.2	4.1	0.4
3.56	LEFT	31.5	3	10.5	4.7	0.4
3.77	LEFT	24	3	8.0	3.6	0.3
3.82	LEFT	55	3	18.3	8.3	0.8
3.89	LEFT	130	3	43.3	19.5	1.8
4.38	RIGHT	14.5	3	4.8	2.2	0.2
4.41	RIGHT	14	3	4.7	2.1	0.2
5.46	RIGHT	35	3	11.7	5.3	0.5
5.50	LEFT	15	3	5.0	2.3	0.2
5.54	LEFT	23	3	7.7	3.5	0.3
5.57	LEFT	28.5	3	9.5	4.3	0.4
5.65	RIGHT	12.5	3	4.2	1.9	0.2
5.65	LEFT	17.5	3	5.8	2.6	0.2
5.68	LEFT	16.5	3	5.5	2.5	0.2
5.68	RIGHT	16.5	3	5.5	2.5	0.2
5.72	RIGHT	13	3	4.3	2.0	0.2
5.73	LEFT	16.5	3	5.5	2.5	0.2
5.75	LEFT	15	3	5.0	2.3	0.2
5.77	LEFT	17.5	3	5.8	2.6	0.2
5.77	RIGHT	14	3	4.7	2.1	0.2
5.86	LEFT	12.5	3	4.2	1.9	0.2
5.87	LEFT	12	3	4.0	1.8	0.2
5.95	RIGHT	17.5	3	5.8	2.6	0.2
6.72	LEFT	24	3	8.0	3.6	0.3
7.13	LEFT	23.5	3	7.8	3.5	0.3
TOTAL:					145	13

SIDEROAD SCHEDULE

LOCATION		DIRECTION	EXISTING MATERIAL	LENGTH	WIDTH	BITUMINOUS MATERIALS (TACK COAT)	INCIDENTAL HMA SURFACING
MILE STATION	NAME			FOOT	FOOT	POUND	TON
0.02	IL 3	LEFT	HMA	50	3.5	8.8	0.8
0.51	JOE KNIGHT RD.	LEFT	HMA	70	3.5	12.3	1.1
1.02	DOW RD.	LEFT	HMA	70	3.5	12.3	1.1
1.02	AIRPORT RD.	RIGHT	HMA	65	3.5	11.4	1.1
2.24	BETHEL LN.	LEFT	HMA	50	3.5	8.8	0.8
2.24	BETHEL LN.	RIGHT	HMA	70	3.5	12.3	1.1
3.37	MCCLUSKY RD.	LEFT	HMA	85	3.5	14.9	1.4
3.37	MCCLUSKY RD.	RIGHT	HMA	105	3.5	18.4	1.7
3.43	MCCLUSKY TR.	RIGHT	HMA	55	3.5	9.7	0.9
4.38	HAGEN RD.	LEFT	HMA	70	3.5	12.3	1.1
4.38	HAGEN RD.	RIGHT	HMA	75	3.5	13.2	1.2
4.88	LODI RD.	LEFT	HMA	65	3.5	11.4	1.1
5.39	DAVIDSON RD.	RIGHT	HMA	45	3.5	7.9	0.7
6.39	CRYSTAL LAKE RD.	LEFT	HMA	60	3.5	10.5	1.0
6.39	CRYSTAL LAKE RD.	RIGHT	HMA	60	3.5	10.5	1.0
7.40	BLUEBIRD LN.	LEFT	HMA	35	3.5	6.2	0.6
7.68	COMMERCE BLVD.	LEFT	HMA	70	3.5	12.3	1.1
7.79	ESSEX ST.	RIGHT	HMA	90	3.5	15.8	1.5
7.85	ROSEWOOD DR.	RIGHT	HMA	45	3.5	7.9	0.7
TOTAL:						217	20

ROW SCHEDULE

DESCRIPTION/LOCATION	STATION	OFFSET	DIRECTION	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	RIGHT-OF-WAY AND PROPERTY CORNERS
				EACH	EACH
DOW ROAD	69+00.00	30.21	LT	1	
DOW ROAD	69+00.00	29.79	RT	1	
DOW ROAD	69+75.00	90.00	RT	1	
DOW ROAD	70+00.00	80.00	LT	1	
DOW ROAD	70+50.00	80.00	LT	1	
DOW ROAD	70+50.00	90.00	RT	1	
DOW ROAD	71+30.00	30.35	LT	1	
DOW ROAD	71+40.00	29.64	RT	1	
HAGEN ROAD	245+10.00	29.74	RT	1	
HAGEN ROAD	245+75.00	30.28	LT	1	1
HAGEN ROAD	246+00.00	90.00	RT	1	
HAGEN ROAD	246+55.00	95.00	LT	1	
HAGEN ROAD	246+75.00	90.00	RT	1	
HAGEN ROAD	247+00.00	95.00	LT	1	
HAGEN ROAD	247+55.00	30.28	LT	1	
HAGEN ROAD	247+60.00	29.75	RT	1	
TOTAL:				16	1

USER NAME = murrayda	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 7/29/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: _____ | SHEET 2 OF 5 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59) RS-2	JERSEY	60	13

CONTRACT NO. 76L10

ILLINOIS | FED. AID PROJECT

ADA SCHEDULE								
LOCATION	PAVEMENT REMOVAL	SIDEWALK REMOVAL	AGGREGATE BASE COURSE, TYPE B	PC CONCRETE SIDEWALK 4 INCH	DETECTABLE WARNINGS	COMBINATION CURB AND GUTTER, TYPE B6.24	REMOVE SIGN PANEL ASSEMBLY, TYPE B	RELOCATE SIGN PANEL ASSEMBLY, TYPE B
	SQ YD	SQ FT	TON	SQ FT	SQ FT	FOOT	EACH	EACH
NE QUADRANT HWY 109 AND W. COUNTY RD	81	52	3.5	75	20	23	1	1
NW QUADRANT HWY 109 AND W. COUNTY RD	71	41	2.5	51	8	20		
TOTAL:	152	93	6	126	28	43	1	1

PAVEMENT MARKING SCHEDULE						
MILE STATION	DESCRIPTION	TEMPORARY PAVEMENT MARKING		TEMPORARY PAVEMENT MARKING REMOVAL	THERMOPLASTIC PAVEMENT MARKING	
		12" SOLID WHITE	24" SOLID WHITE		12" SOLID WHITE	24" SOLID WHITE
		FOOT	FOOT	SQ FT	FOOT	FOOT
8.22	IL 109 - STOP BAR		35	70	0	35
8.22	IL 109 - CROSSWALK	172		172	172	
8.22	US 67 - CROSSWALK	105		105	105	
TOTAL:		277	35	347	277	35

PAVEMENT MARKING SCHEDULE	
MILE STATION	THERMOPLASTIC PAVEMENT MARKING
	18" SOLID WHITE
	FOOT
0.602	8
0.727	8
0.852	8
3.844	8
3.969	8
4.094	8
TOTAL:	48

MODEL: sMODELNAME$
FILE NAME: pw:\\dmmom.dot.illinois.gov:PWIDOT1Documents\IDOT Offices\District 8\Projects\D8761L10\CADData\CADsheets\D8761L10-stt-plan.dgn

USER NAME = murrayda	DESIGNED - _____	REVISED - _____	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 7/29/2021	DATE - _____	REVISED - _____	

SCHEDULE OF QUANTITIES

SCALE: _____ | SHEET 3 OF 5 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59) RS-2	JERSEY	60	14
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		

PAVEMENT MARKING SCHEDULE

MILE STATION TO MILE STATION			LENGTH	SHORT TERM PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING				RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKERS CRYSTAL	SHCRT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING REMOVAL	THERMOPLASTIC PAVEMENT MARKING				SHOULDER RUMBLE STRIP, 8"
				4" SKIP-DASH YELLOW	4" SOLID WHITE	4" SKIP-DASH YELLOW	NO PASSING ZONE						4" SOLID WHITE	4" SKIP-DASH YELLOW	NO PASSING ZONE		
							4" SOLID YELLOW								4" SOLID YELLOW		
			FOOT	FOOT	FOOT	FOOT	DIR	FOOT	EACH	EACH	SQ FT	SQ FT	FOOT	FOOT	DIR	FOOT	FOOT
0.00	-	0.01	53	30	106		BOTH	106	1	1	4	71	106		BOTH	106	106
0.01	-	0.07	317	90	634	80	SB	317	4	4	10	344	634	80	SB	317	634
0.07	-	0.18	581	180	1162		BOTH	1162	7	7	20	775	1162		BOTH	1162	1162
0.18	-	0.22	211	60	422	60	NB	211	3	3	7	232	422	60	NB	211	422
0.22	-	0.23	53	30	53	20	NB	53	1	1	4	42	53	20	NB	53	106
0.23	-	0.25	106	30	211	30	NB	106	1	1	4	116	211	30	NB	106	211
0.25	-	0.29	211	60	422	60			3	3	7	161	422	60			422
0.29	-	0.41	634	180	1267	160	SB	634	8	8	20	687	1267	160	SB	634	1267
0.41	-	0.51	528	150	1056	140			7	7	17	399	1056	140			1056
0.51	-	0.52	53	30	53	20			1	1	4	25	53	20			106
0.52	-	0.86	1795	510	3590	450			22	22	57	1347	3590	450			3590
0.86	-	0.98	634	180	1267	160	NB	634	8	8	20	687	1267	160	NB	634	1267
0.98	-	1.01	158	60	317	40			2	2	7	119	317	40			317
1.01	-	1.03	106	30		30			1	1	4	10		30			211
1.03	-	1.10	370	120	739	100			5	5	14	280	739	100			739
1.10	-	1.20	528	150	1056	140	SB	528	7	7	17	575	1056	140	SB	528	1056
1.20	-	1.48	1478	420	2957	370			18	18	47	1109	2957	370			2957
1.48	-	1.69	1109	330	2218	280	NB	1109	14	14	37	1203	2218	280	NB	1109	2218
1.69	-	1.73	211	60	422		BOTH	422	3	3	7	282	422		BOTH	422	422
1.73	-	1.93	1056	300	2112	270	SB	1056	13	13	34	1146	2112	270	SB	1056	2112
1.93	-	1.99	317	90	634	80			4	4	10	238	634	80			634
1.99	-	2.12	686	210	1373	180	NB	686	9	9	24	747	1373	180	NB	686	1373
2.12	-	2.24	634	180	1267		BOTH	1267	8	8	20	845	1267		BOTH	1267	1267
2.24	-	2.25	53	30			BOTH	106	1	1	4	36			BOTH	106	106
2.25	-	2.26	53	30	106		BOTH	106	1	1	4	71	106		BOTH	106	106
2.26	-	2.46	1056	300	2112	270	SB	1056	13	13	34	1146	2112	270	SB	1056	2112
2.46	-	2.47	53	30	106		BOTH	106	1	1	4	71	106		BOTH	106	106
2.47	-	2.66	1003	300	2006	260	NB	1003	13	13	34	1090	2006	260	NB	1003	2006
2.66	-	3.08	2218	630	4435		BOTH	4435	28	28	70	2957	4435		BOTH	4435	4435
3.08	-	3.29	1109	330	2218	280	SB	1109	14	14	37	1203	2218	280	SB	1109	2218
3.29	-	3.36	370	120	739	100			5	5	14	280	739	100			739
3.36	-	3.38	106	30		30			1	1	4	10		30			211
3.38	-	3.42	211	60	422	60			3	3	7	161	422	60			422
3.42	-	3.43	53	30	53	20			1	1	4	25	53	20			106
3.43	-	4.25	4330	1200	8659	1090			54	54	134	3250	8659	1090			8659
4.25	-	4.38	686	210	1373	180	NB	686	9	9	24	747	1373	180	NB	686	1373
4.38	-	4.39	53	30		20	NB	53			4	25		20	NB	53	106
4.39	-	4.46	370	120	739	100	NB	370	5	5	14	403	739	100	NB	370	739
SUBTOTAL (1):			6930	46306		5080		17321	299	299	787	22915	46306	5080		17321	47099
TOTAL (1):			6930	68707					299	299	787	22915	68707				47099

MODEL: $MODELNAME$
FILE NAME: pw:\\dunroom.dot.illinois.gov:PWBDOT1Documents\IDOT Offices\District 8\Projects\D8761 10\CADData\CADsheets\D8761L10-alt-ellan.dgn

USER NAME = murrayda	DESIGNED - _____	REVISED - _____	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 7/29/2021	DATE - _____	REVISED - _____	

SCHEDULE OF QUANTITIES

SCALE: _____ | SHEET 4 OF 5 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59) RS-2	JERSEY	60	15
		CONTRACT NO. 76L10		
		ILLINOIS	FED. AID PROJECT	

PAVEMENT MARKING SCHEDULE

MILE STATION TO MILE STATION			LENGTH	SHORT TERM PAVEMENT MARKING	TEMPORARY PAVEMENT MARKING				RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	RAISED REFLECTIVE PAVEMENT MARKERS CRYSTAL	SHORT TERM PAVEMENT MARKING REMOVAL	TEMPORARY PAVEMENT MARKING REMOVAL	THERMOPLASTIC PAVEMENT MARKING				SHOULDER RUMBLE STRIP, 8"
				4" SKIP DASH YELLOW	4" SOLID WHITE	4" SKIP DASH YELLOW	NO PASSING ZONE 4" SOLID YELLOW						4" SOLID WHITE	4" SKIP DASH YELLOW	NO PASSING ZONE 4" SOLID YELLOW		
			FOOT	FOOT	FOOT	FOOT	DIR	FOOT	EACH	EACH	SQ FT	SQ FT	FOOT	FOOT	DIR	FOOT	FOOT
4.46	-	4.70	1267	360	2534		BOTH	2534	16	16	40	1690	2534		BOTH	2534	2534
4.70	-	4.86	845	240	1690	220	SB	845	11	11	27	919	1690	220	SB	845	1690
4.86	-	4.89	158	60	158		BOTH	317	2	2	7	159	158		BOTH	317	317
4.89	-	5.10	1109	330	2218	280	NB	1109	14	14	37	1203	2218	280	NB	1109	2218
5.10	-	5.11	53	30	106		BOTH	106	1	1	4	71	106		BOTH	106	106
5.11	-	5.31	1056	300	2112	270	SB	1056	13	13	34	1146	2112	270	SB	1056	2112
5.31	-	5.38	370	120	739	100			5	5	14	280	739	100			739
5.38	-	5.39	53	30	53	20			1	1	4	25	53	20			106
5.39	-	6.00	3221	900	6442	810			40	40	100	2418	6442	810			6442
6.00	-	6.16	845	240	1690	220	NB	845	11	11	27	919	1690	220	NB	845	1690
6.16	-	6.20	211	60	422	60			3	3	7	161	422	60			422
6.20	-	6.37	898	270	1795	230	SB	898	11	11	30	975	1795	230	SB	898	1795
6.37	-	6.39	106	30	211	30			1	1	4	81	211	30			211
6.39	-	6.40	53	30		20			1	1	4	7		20			106
6.40	-	7.67	6706	1830	13411	1680			84	84	204	5031	13411	1680			13411
7.67	-	7.69	106	30	106	30			1	1	4	46	106	30			211
7.69	-	7.78	475	150	950	120			6	6	17	357	950	120			950
7.78	-	7.80	106	30	106	30			1	1	4	46	106	30			211
7.80	-	7.84	211	60	422		BOTH	422	3	3	7	282	422		BOTH	422	422
7.84	-	7.85	53	30	53		BOTH	106	1	1	4	53	53		BOTH	106	106
7.85	-	7.90	264	90	528		BOTH	528	3	3	10	353	528		BOTH	528	528
7.90	-	7.91	53	30	106				1	1	4	36	106				106
7.91	-	7.95	211	60	422		BOTH	422	3	3	7	282	422		BOTH	422	422
7.95	-	7.96	53	30	53		BOTH	106	1	1	4	53	53		BOTH	106	106
7.96	-	8.01	264	90	528		BOTH	528	3	3	10	352	528		BOTH	528	528
8.01	-	8.02	53	30	53		BOTH	106	1	1	4	53	53		BOTH	106	106
8.02	-	8.03	53	30	106		BOTH	106	1	1	4	71	106		BOTH	106	106
8.03	-	8.04	53	30	53		BOTH	106	1	1	4	53	53		BOTH	106	106
8.04	-	8.07	158	60	317		BOTH	317	2	2	7	212	317		BOTH	317	317
8.07	-	8.08	53	30	53		BOTH	106	1	1	4	53	53		BOTH	106	106
8.08	-	8.09	53	30	106		BOTH	106	1	1	4	71	106		BOTH	106	106
8.09	-	8.10	53	30	53		BOTH	106	1	1	4	53	53		BOTH	106	106
8.10	-	8.15	264	90	528		BOTH	528	3	3	10	353	528		BOTH	528	528
8.15	-	8.16	53	30	53		BOTH	106	1	1	4	53	53		BOTH	106	106
8.16	-	8.21	264	90	528		BOTH	528	3	3	10	353	528		BOTH	528	528
8.21	-	8.22	53	30	53		BOTH	106	1	1	4	53	53		BOTH	106	106
SUBTOTAL (2):				5910	38758	4120		12043	253	253	673	18323	38758	4120		12043	39710
TOTAL (2):				5910	54921				253	253	673	18323	54921				39710
TOTAL (1+2):				12840	123628				552	552	1460	41238	123628				86809

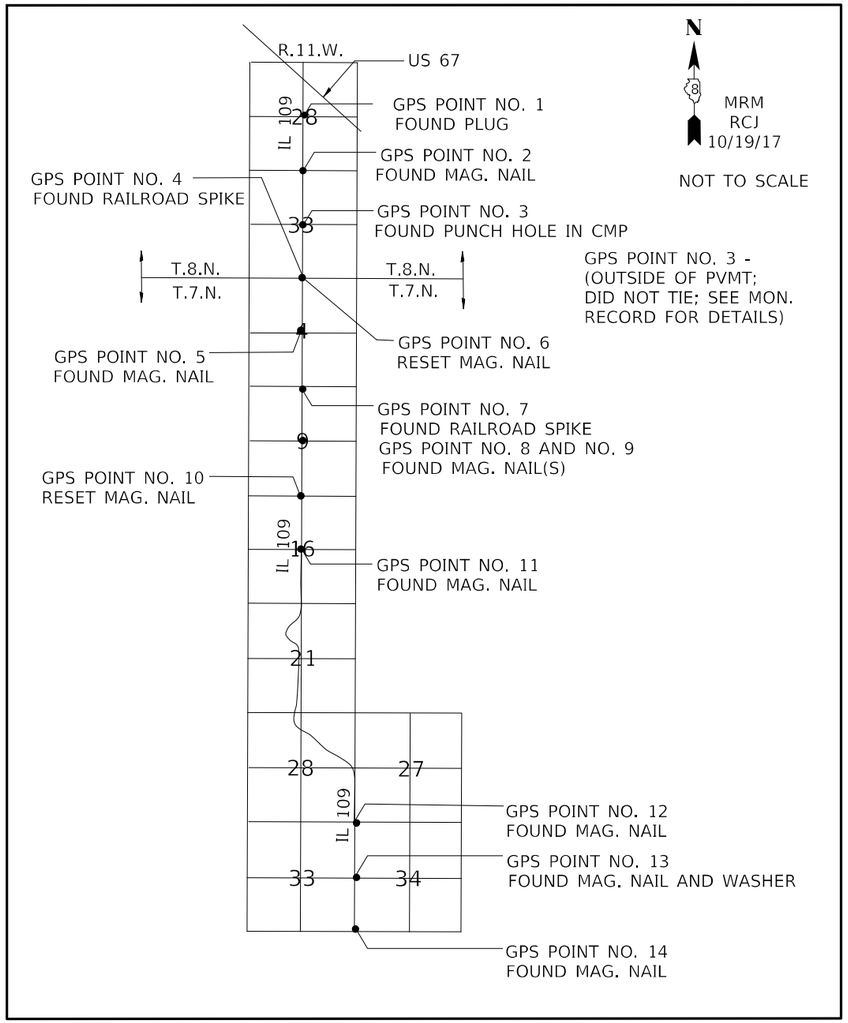
MODEL: sMODELNAME5
FILE NAME: pw:\\dbroom.dot.illinois.gov:PWIDOTDocuments:IDOT Offices:District 8:Projects:76L10:CADData:CADSheets:76L10-sht-plan.dgn

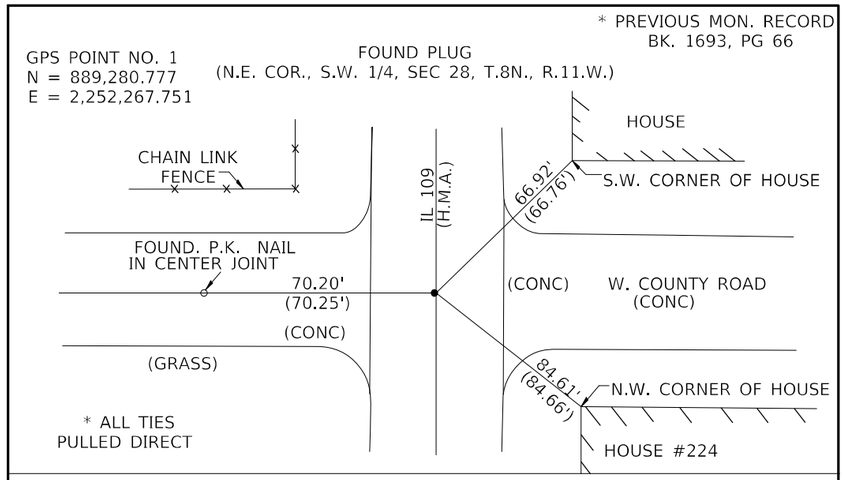
USER NAME = murrayda	DESIGNED - _____	REVISED - _____	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 7/29/2021	DATE - _____	REVISED - _____	

SCHEDULE OF QUANTITIES

SCALE: _____ | SHEET 5 OF 5 SHEETS | STA. _____ | TO STA. _____

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59) RS-2	JERSEY	60	16
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		





MODEL: $MODELNAME$
FILE NAME: pw:\\bhroom.dot.illinois.gov:PWIDOT Documents:IDOT Offices\District 8\Projects\08761\10\CADData\CADSheets\08761 10-sht-plan.dgn

USER NAME = murrayda	DESIGNED - _____	REVISED - _____	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 7/29/2021	DATE - _____	REVISED - _____	

SURVEY MONUMENT LOCATIONS

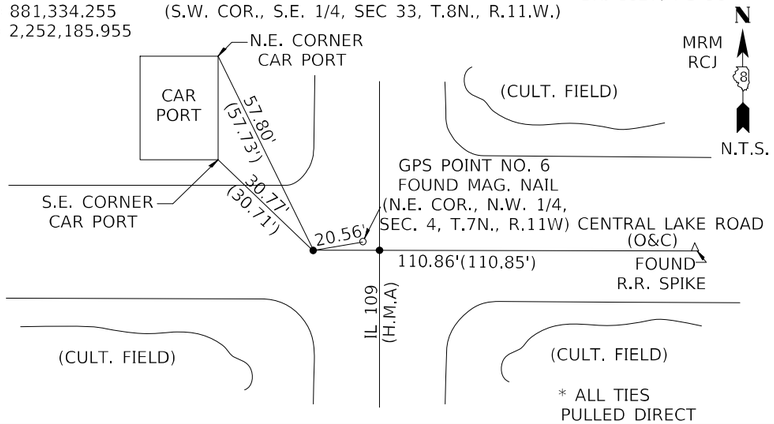
SCALE: _____ | SHEET 1 OF 4 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59)RS-2	JERSEY	60	17
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			

GPS POINT NO. 4
N = 881,334.255
E = 2,252,185.955

FOUND RAILROAD SPIKE
(S.W. COR., S.E. 1/4, SEC 33, T.8N., R.11.W.)

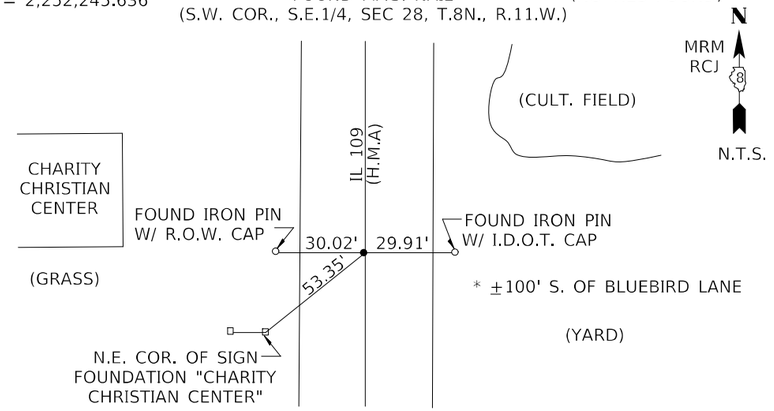
* PREVIOUS MON. RECORD
BK. 1627, PG 96



GPS POINT NO. 2
N = 886,512.976
E = 2,252,245.636

FOUND MAG. NAIL
(S.W. COR., S.E.1/4, SEC 28, T.8N., R.11.W.)

* PREVIOUS MON. RECORD
BK. 1693, PG 66
(NO TIES FOUND)

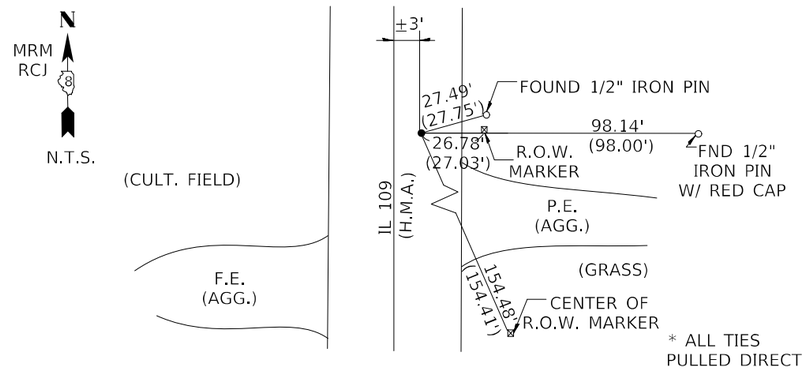


* ALL TIES
PULLED DIRECT

GPS POINT NO. 5
N = 878, 680. 312
E = 2,252,199.493

FOUND MAG. NAIL
(NW. COR., S.E.1/4, SEC 4, T.7N., R.11.W.)

* PREVIOUS MON. RECORD
BK. 1643, PG 280

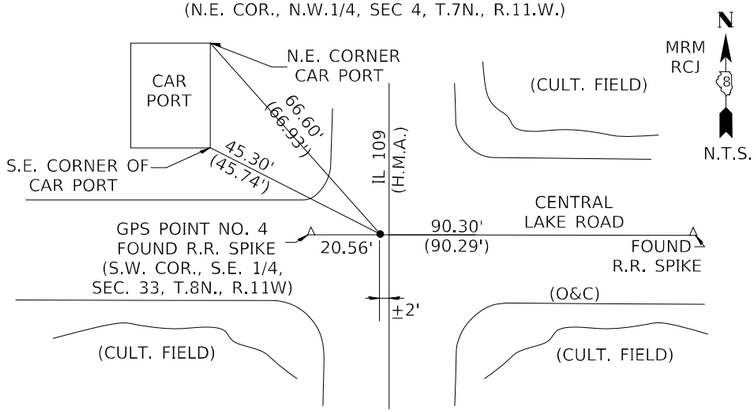


* ALL TIES
PULLED DIRECT

GPS POINT NO. 6
N = 881,334.031
E = 2,252,206.516

RE-SET MAG. NAIL FROM PREVIOUS TIES
(N.E. COR., N.W.1/4, SEC 4, T.7N., R.11.W.)

* PREVIOUS MON. RECORD
BK. 1693, PG 49



* ALL TIES
PULLED DIRECT

MODEL: $MODELNAME$
FILE NAME: pw:\\dotnxrm.dot.illinois.gov:PWIDOT1Documents\IDOT Offices\District 8\Projects\D8761.10\CADData\CADsheets\D8761.10-alt-ellsn.dgn

USER NAME = murrayda	DESIGNED - _____	REVISED - _____	
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 7/29/2021	DATE - _____	REVISED - _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SURVEY MONUMENT LOCATIONS

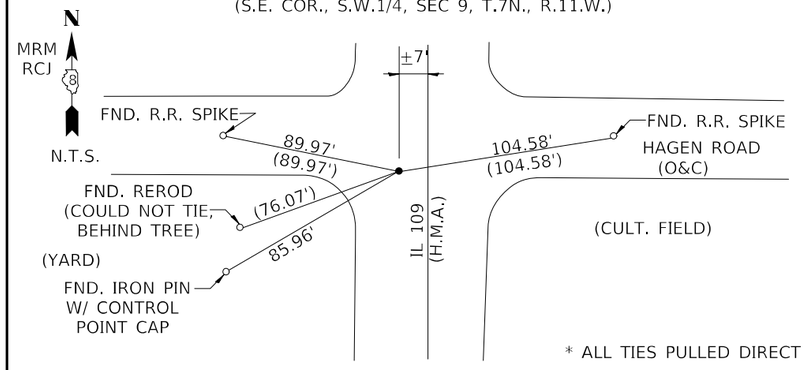
SCALE: _____ | SHEET 2 OF 4 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59)RS-2	JERSEY	60	18
		CONTRACT NO. 76L10		
		ILLINOIS	FED. AID PROJECT	

GPS POINT NO. 10
N = 870,715.496
E = 2,252,134.590

* PREVIOUS MON. RECORD
BK. 1693, PG 52

RE-SET MAG. NAIL FROM PREVIOUS TIES
(S.E. COR., S.W.1/4, SEC 9, T.7N., R.11.W.)

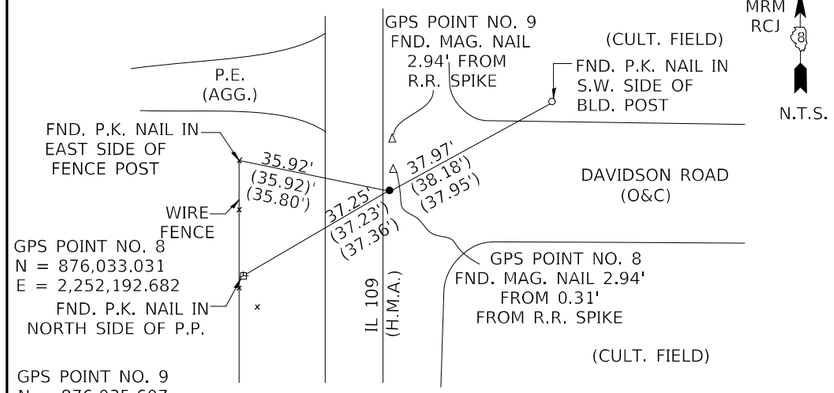


* ALL TIES PULLED DIRECT

GPS POINT NO. 7
N = 876,032.721
E = 2,252,192.646

FOUND RAILROAD SPIKE
(N.W. COR., N.E. 1/4, SEC 9, T.7N., R.11.W.)
(±1' E. OF ℄)

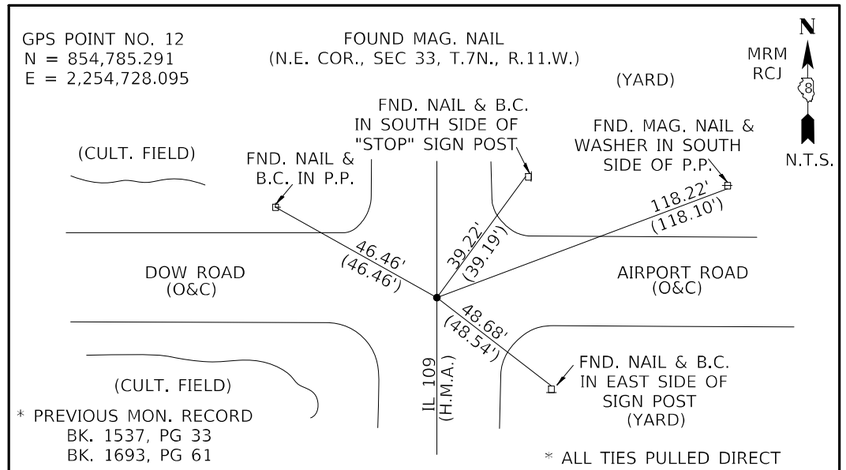
* PREVIOUS MON. RECORD
BK. 1182, PG 332
BK. 1693, PG 53



* ALL TIES PULLED DIRECT

GPS POINT NO. 12
N = 854,785.291
E = 2,254,728.095

FOUND MAG. NAIL
(N.E. COR., SEC 33, T.7N., R.11.W.)



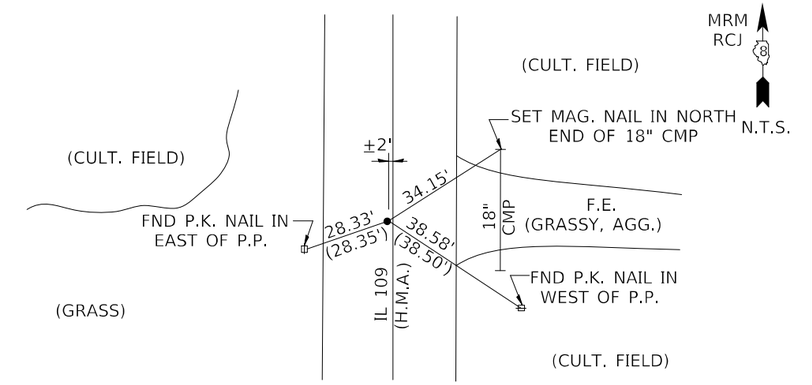
* PREVIOUS MON. RECORD
BK. 1537, PG 33
BK. 1693, PG 61

* ALL TIES PULLED DIRECT

GPS POINT NO. 11
N = 868,084.102
E = 2,252,119.952

FOUND MAG. NAIL
(N.W. COR., S.E.1/4, SEC 16, T.7N., R.11.W.)

* PREVIOUS MON. RECORD
BK. 1693, PG 55



* +0,5 MILES S. OF
HAGEN ROAD

* ALL TIES PULLED DIRECT

MODEL: $MODELNAME$
FILE NAME: pw:\\Baroom.dot.illinois.edu:Documents\IDOT Offices\District 8\Projects\076L10\CADData\CADsheets\076L10-sht-plan.dgn

USER NAME = murrayda	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 7/29/2021	DATE -	REVISED -	

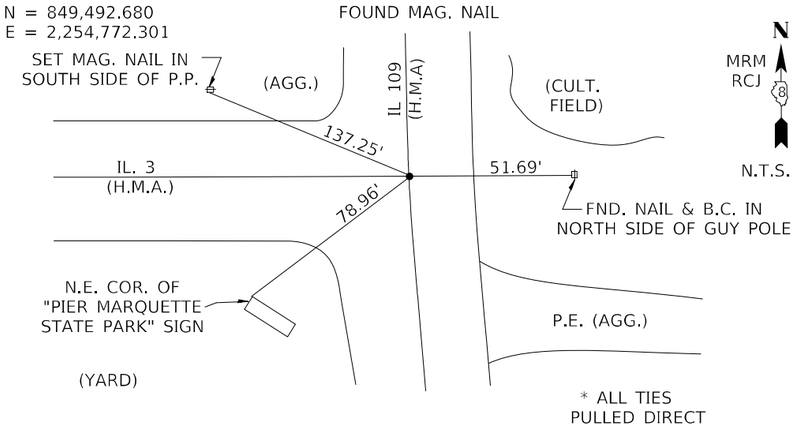
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SURVEY MONUMENT LOCATIONS

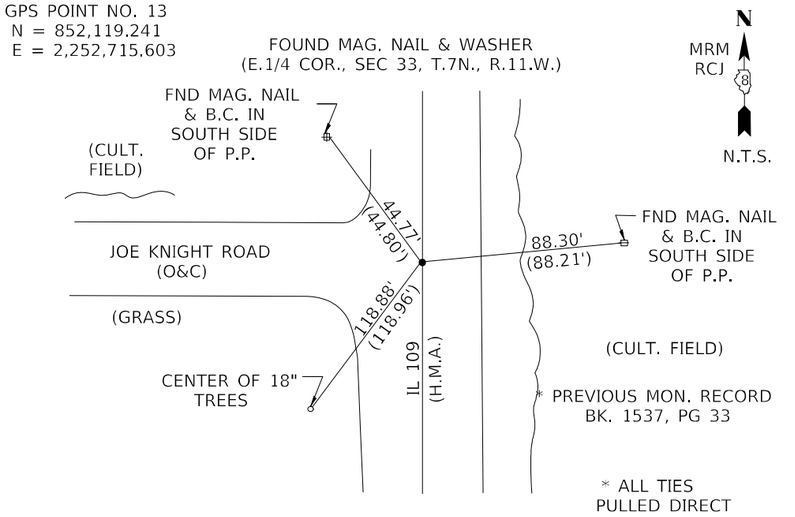
SCALE: _____ | SHEET 3 OF 4 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59)RS-2	JERSEY	60	19
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			

GPS POINT NO. 14
N = 849,492.680
E = 2,254,772.301



GPS POINT NO. 13
N = 852,119.241
E = 2,252,715.603



MODEL: sMODELNAME$
FILE NAME: ow:\\dfsroom.dot.illinois.gov:PWIDOT Documents\IDOT Offices\District 8\Projects\10876L10\CADData\CADSheets\10876L10-sht-plan.dgn

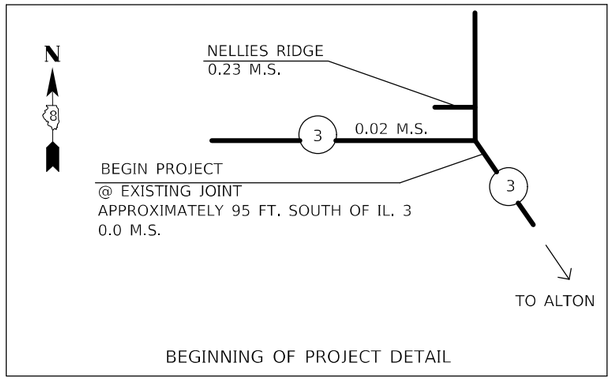
USER NAME = murrayda	DESIGNED - _____	REVISED - _____	
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 7/29/2021	DATE - _____	REVISED - _____	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

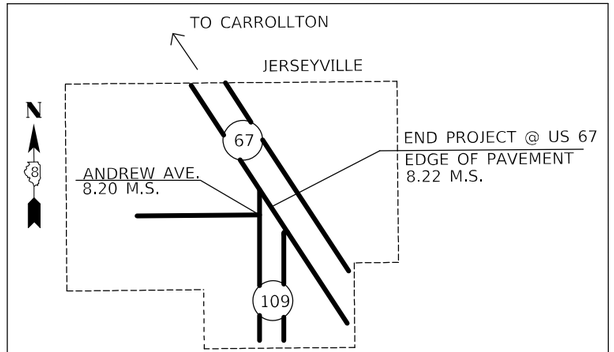
SURVEY MONUMENT LOCATIONS

SCALE: _____ | SHEET 4 OF 4 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59)RS-2	JERSEY	60	20
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		



BEGINNING OF PROJECT DETAIL



END OF PROJECT DETAIL

NOT TO SCALE

USER NAME = murrayda	DESIGNED - _____	REVISED - _____
	DRAWN - _____	REVISED - _____
PLOT SCALE = 2.0000 ' / in.	CHECKED - _____	REVISED - _____
PLOT DATE = 7/29/2021	DATE - _____	REVISED - _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP

SCALE: _____ | SHEET 1 OF 1 SHEETS | STA. _____ | TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59) RS-2	JERSEY	60	21
		CONTRACT NO. 76L10		
		ILLINOIS	FED. AID PROJECT	

MODEL: \$MODELNAME\$
FILE NAME: pw:\\dmroom.dot.illinois.gov:PWDOT1Documents\IDOT Offices\District 8\Projects\0876L10\CADData\CADsheets\0876L10-sht-ellw.dgn

SHEET INDEX		
SHEET NO.	STATION to STATION	DESCRIPTION
1		COVER SHEET
2		LEGEND
3-4		ROW PLAT
5		TIE POINTS

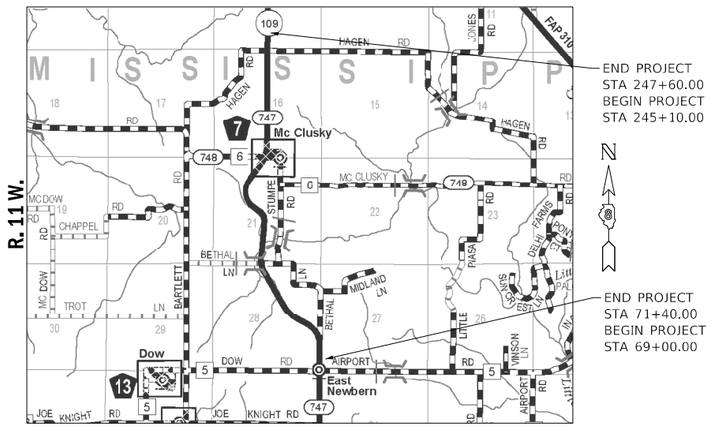
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION

RECEIVED: 05-25-21

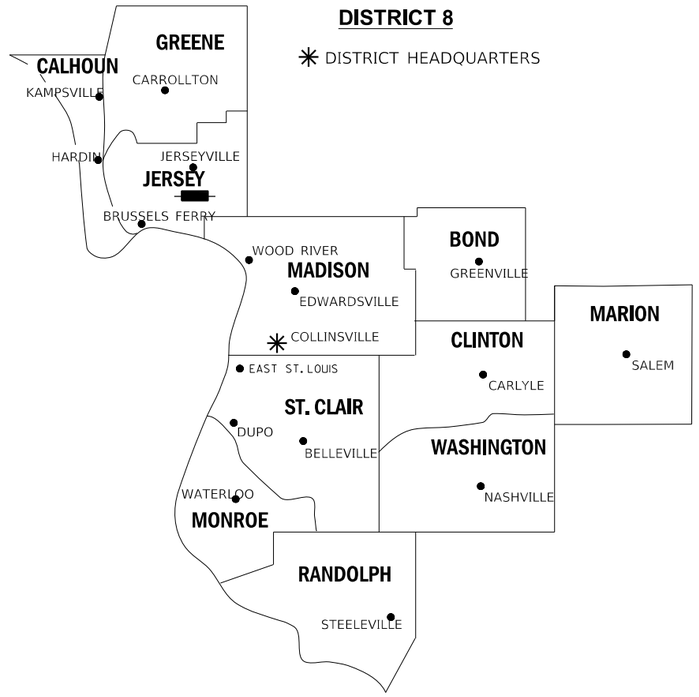
SPACE RESERVED FOR RECORDING OFFICER

PLAT OF HIGHWAYS

F.A.S. 747/F.A.U. 8813 (IL ROUTE 109)
SECTION (57,58,59)RS-2
JERSEY COUNTY
JOB NO. R-98-006-20



PROJECT LENGTH = 240 LIN. FT. = 0.0455 MILES
250 LIN. FT. = 0.0473 MILES



LOCATION OF SECTION INDICATED THUS: —■—

PRELIMINARY

Veenstra & Kimm, Inc.
2417 West White Oaks Dr.
Springfield, IL 62704
217–544–8033

PREPARED BY:

SHAYLA E. PFAFFE, PLS NO. 35-003411
LICENSE EXPIRATION DATE: 11/30/2022

SHEET 1 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8 1102 EASTPORT PLAZA DRIVE COLLINSVILLE, ILLINOIS 62234-6198				
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS747/ FAU8813	(57,58,59)RS-2	JERSEY	60	22
		CONTRACT NO. 76L10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND FOR EXISTING TOPOGRAPHIC SYMBOLS

TRAFFIC SIGNAL GULFBOX
TRAFFIC SIGNAL HANDHOLE
TRAFFIC SIGNAL SIGNAL POST
TRAFFIC SIGNAL STEEL MAST ARM
TRAFFIC SIGNAL PEDESTRIAN PUSH BUTTON
TRAFFIC SIGNAL WOODEN POLE
TRAFFIC SIGNAL VEHICLE DETECTION PRIORITY
TRAFFIC SIGNAL VEHICLE DETECTION MAGNET
TRAFFIC SIGNAL JUNCTION BOX
TRAFFIC SIGNAL CONTROLLER
TRAFFIC SIGNAL HEAVY DUTY HANDHOLE
RAILROAD CANTILEVER MAST ARM
RAILROAD CROSSBUCK
RAILROAD TRACK
RAILROAD TRACK (ABANDONED)
RAILROAD CROSSGATE
RAILROAD CONTROL BOX
RAILROAD FLASHING SIGNAL
UTILITY TELEPHONE SPLICE BOX
UTILITY POWER POLE
UTILITY TRAFFIC SIGNAL
UTILITY LIGHT POLE
UTILITY FIRE HYDRANT
UTILITY MANHOLE
UTILITY TELEPHONE POLE
UTILITY GUY ANCHOR
UTILITY PIPELINE WARNING SIGN
UTILITY HANDHOLE
UTILITY SPLICE BOX
UTILITY JUNCTION BOX
UTILITY HEAVY DUTY HANDHOLE
UTILITY DOUBLE HANDHOLE
UTILITY CONTROLLER
UTILITY WATER METER

DRAINAGE FLOW LINE
RIP RAP
HEADWALL
CULVERT END SECTION
DRAINAGE MANHOLE
INLET
ROADWAY DITCH FLOW
VEGETATION LINE
STUMP
SHRUB
EVERGREEN TREE
DECIDUOUS TREE
WOODS/BUSH LINE
TRAFFIC SIGN
GUARDRAIL POST
GUARDRAIL
FIELD LINE
LEVEE/NOISE BARRIER
FENCE
MAIL BOX
ADVERTISING SIGN
MARSH
LIGHTING HANDHOLE
LIGHTING POWER POLE
LIGHTING JUNCTION BOX
LIGHTING HEAVYDUTY HANDHOLE
LIGHTING CONTROLLER
LIGHTING PULL POINT
HIGHWAY LIGHTING ELECTRICAL GROUND
HIGHWAY LIGHTING SINGLE UNIT
HIGHWAY LIGHTING DOUBLE UNIT
EXISTING CONCRETE BARRIER
EXISTING CREEK OR DITCH
EXISTING EDGE OF PAVEMENT

BASIS OF COORDINATE & BEARING STATEMENT

THE COORDINATES AND BEARINGS FOR THIS SURVEY ARE BASED ON THE PROJECT SURVEY CONTROL DATA ESTABLISHED AND PROVIDED TO THE SURVEYOR BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. ALL DISTANCES AND BEARINGS SHOWN HEREON ARE GRID VALUES BASED ON THE FOLLOWING PROJECTION DEFINITION. THE PROJECTION WAS DEFINED SUCH THAT GRID DISTANCES ARE EQUIVALENT TO "GROUND" DISTANCES.

LOW DISTORTION PROJECTION - JERSEY & GREENE COUNTIES
PROJECTION PARAMETERS

LINEAR UNIT: US SURVEY FEET
GEODETIC DATUM: NAO 1983 (2011)- EPOCH: 2010
VERTICAL DATUM: NAVD 1988
PROJECTION: TRANSVERSE MERCATOR
LATITUDE OF ORIGIN: 38°54'00"N
CENTRAL MERIDIAN: 90°20'00"W
FALSE NORTHING: 0.000 SFT
FALSE EASTING: 88,000 SFT
CM SCALE FACTOR: 1.00002152

THE SURVEY WAS REFERENCED TO THE NATIONAL SPATIAL REFERENCE SYSTEM BY DIRECT CONNECTION TO THE FOLLOWING MONUMENTS.

CONTROL: No. 6
LATITUDE: N39°04'20.78673" NORTHING: 62808.3172 SFT
LONGITUDE: W90°19'22.05978" EASTING: 90992.2488 SFT
ELLIPSOIDAL HEIGHT: 510.4534 SFT ORTHO HT.: 614.2563 SFT (GEOID 12B)

CONTROL: No. 106
LATITUDE: N38°59'46.99471" NORTHING: 35109.0233 SFT
LONGITUDE: W90°17'49.95303" EASTING: 98267.4744 SFT
ELLIPSOIDAL HEIGHT: 496.8124 SFT ORTHO HT.: 600.3836 (G'EOID 12B)

PROJECT SURVEY CONTROL DATA
GROUND SURFACE COORDINATE SYSTEM

COORDINATES PROVIDED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION
JOB NO. D-98-006-20 / CONTRACT NO. 76L10

POINT NO.	NORTH (FEET)	EAST (FEET)	DESCRIPTION
100	42,397.6870	90,714.5879	IRON PIN W/ALUM CAP
102	41,981.2368	93,470.0244	IRON PIN W/PLASTIC CAP
103	41,530.4929	92,188.2172	IRON PIN W/ALUM CAP
104	41,509.9798	94,996.8377	IRON PIN W/ALUM CAP
1	57,424.9627	90,907.8137	IRON PIN W/CAP
2	57,943.9721	90918.5836	IRON PIN W/CAP
5	58,705.0013	90,865.3434	IRON PIN W/CAP
7	57,452.0066	95,129.3304	IRON PIN W/CAP
9	60,160.0814	85,565.9604	IRON PIN W/CAP

RIGHT-OF-WAY LEGEND

SECTION CORNERS
QUARTER SECTION CORNERS

EXISTING CENTERLINE
EXISTING RIGHT-OF-WAY LINE
FORMER RIGHT-OF-WAY LINE
EXISTING IDOT EASEMENT LINE
EXISTING EASEMENT LINE
BUILDING SETBACK LINE
EXISTING ACCESS CONTROL LINE
EXISTING RIGHT-OF-WAY & PROPOSED ACCESS CONTROL LINE
PROPOSED ACCESS CONTROL LINE
PROPOSED CENTERLINE
PROPOSED RIGHT-OF-WAY LINE
PROPOSED TEMPORARY EASEMENT LINE
PROPOSED PERMANENT EASEMENT LINE
SECTION LINE
QUARTER SECTION LINE
QUARTER QUARTER SECTION LINE
PROPERTY LINE (TITLE)
RECORDED PLAT/DEED LINE
APPARENT PROPERTY LINE
SAME OWNERSHIP
121.45' MEASURED DIMENSION
(121.45') RECORDED DIMENSION
FOUND STONE
FOUND IRON PIPE OR IRON ROD AT CORNER UNLESS OTHERWISE NOTED
SET 5/8 INCH IRON ROD WITH PLASTIC CAP IDENTIFIED BY SURVEYORS LICENSE NUMBER AT CORNER UNLESS OTHERWISE NOTED
PERMANENT SURVEY MONUMENT, I.D.O.T. STD. 667101 (TO BE SET BY OTHERS)
SET 5/8 INCH IRON ROD AS SURVEY CONTROL UNLESS OTHERWISE NOTED
FOUND CUT CROSS
SET CUT CROSS

□ STAKING OF PROPOSED RIGHT-OF-WAY AND PERMANENT EASEMENT CORNERS. SET 5/8 INCH METAL ROD WITH DEPARTMENT OF TRANSPORTATION SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER.

□B STAKING OF PROPOSED RIGHT-OF-WAY AND PERMANENT EASEMENT CORNERS IN CULTIVATED AREA, A MINIMUM OF 20 INCHES BELOW THE GROUND SURFACE. SET 5/8 INCH METAL ROD WITH DIVISION OF HIGHWAY SURVEY ALUMINUM CAP TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS LICENSE NUMBER.

TOTAL HOLDING AREA SOURCE TABLE

1	AREA ACCORDING TO THE SURVEY PERFORMED BY THE CONSULTANT.
2	AREA LISTED IN RECORDED DEED.
3	AREA ACCORDING TO A RECORDED SUBDIVISION PLAT.
4	AREA ACCORDING TO A PLAT OF SURVEY.
5	AREA CALCULATED FROM RECORDED DEEDS OR TITLE COMMITMENTS - NOT SURVEYED.
6	AREA ACCORDING TO COUNTY TAX MAPS AND COUNTY ASSESSMENT RECORDS.
7	AREA ACCORDING TO OTHER RECORDS, SEE NOTE ON THE PLAT OF HIGHWAYS.

TOPOGRAPHIC STATEMENT

THE TOPOGRAPHY SHOWN HEREON WAS PROVIDED TO THE SURVEYOR BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THE SURVEYOR VISUALLY FIELD VERIFIED THE EXISTENCE OF THE TOPOGRAPHY SHOWN HEREON. IN ADDITION THE SURVEYOR PHYSICALLY LOCATED IN THE FIELD THE FOLLOWING ITEMS ON 05/19/21:

1. RESIDENTIAL HOUSES AND OUT BUILDINGS
2.
3.

LEGEND FOR ABBREVIATIONS

A/C	ACCESS CONTROL
AC	ACRE
AVE	AVENUE
BK	BOOK
BLVD	BOULEVARD
℄	CENTERLINE
CAB	CABINET
CH	COUNTY HIGHWAY
Ch	CHAIN
CP	CONTROL POINT
CPS	COTTON PICKER SPINDLE
DB	DEED BOOK
E	EAST
EX	EXISTING
FA	FEDERAL AID
FAI	FEDERAL AID INTERSTATE
FAP	FEDERAL AID PRIMARY
FAS	FEDERAL AID SECONDARY
FAU	FEDERAL AID URBAN
FND	FOUND
ha	HECTARE
IP	IRON PIPE
IR	IRON ROD
LT	LEFT
m^2	METER
m	SQUARE METERS
N	NORTH
N/F	NOW OR FORMERLY
N & BC	NAIL AND BOTTLE CAP
N & C	NAIL AND CAP
N & W	NAIL AND WASHER
NE	NORTHEAST
NW	NORTHWEST
PB	PLAT BOOK
PG	PAGE
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
POT	POINT ON TANGENT
ℙ	PROPERTY LINE
PR	PROPOSED
R	RANGE
RD	ROAD
REC	RECORD
ROW	RIGHT-OF-WAY
RR	RAILROAD
RRS	RAILROAD SPIKE
RT	RIGHT
RTE	ROUTE
S	SOUTH
SBI	STATE BOND ISSUE
SE	SOUTHEAST
SEC	SECTION
SQ FT	SQUARE FEET
SR	STATE ROUTE
ST	STREET
STA	STATION
SMK	SURVEY MARKER
SW	SOUTHWEST
T	TOWNSHIP
TR	TOWNSHIP ROAD
USGS	U.S. GEOLOGICAL SURVEY
W	WEST

RECEIVED: 05-25-21

SPACE RESERVED FOR RECORDING OFFICER

PROPOSED PARCEL NUMBER LEGEND

8001001 PROPOSED FEE SIMPLE ACQUISITION
8001001TE PROPOSED TEMPORARY EASEMENT

CURVE ABBREVIATIONS

PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
R	RADIUS OF CURVE
L	LENGTH OF CURVE
CB	CHORD BEARING
C	CHORD LENGTH
D	DEGREE OF CURVE
E	EXTERNAL ORDINATE
Δ	CENTRAL ANGLE

PREPARED BY:

PRELIMINARY

Veenstra & Kimm, Inc.
2417 West White Oaks Dr.
Springfield, IL 62704
217–544–8033

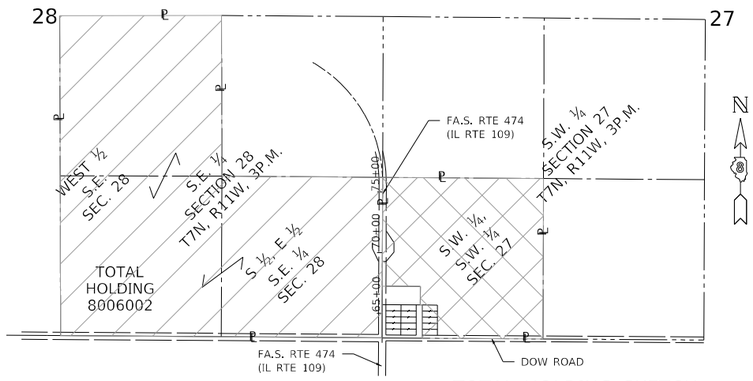
ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAS 747/FAU8813 (IL ROUTE 109)
SECTION (57,58,59)RS-2
JERSEY COUNTY
JOB NO. R-98-006-20
STATION 00+00 TO STATION 00+00

NOT TO SCALE SHEET 2 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS747/FAU8813	(57,58,59)RS-2	JERSEY	60	23
		CONTRACT NO. 76L10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2



TOTAL HOLDING SKETCH
SCALE: 1"=800'

RECEIVED: 05-25-21

SPACE RESERVED FOR RECORDING OFFICER

FOUND IRON PIN
S ¼ CORNER
SECTION 28 T7N
R11W, 3RD P.M.
DOC #202100164229
STA 63+03.08
2,652.98', LT

SE ¼, SE ¼
SECTION 28

A LIFE ESTATE IN WILLIAM E. KOENIG,
REMAINDER INTEREST IN EDWARD E. KOENIG
TRUSTEE UNDER A SELF DECLARATION OF TRUST
DATED JUNE 7, 1984
BK 435 PG 255

60'

DOW ROAD

N 89° 36' 18" W 2,653.22'

SOUTH LINE S.E. SEC. 27, T7N, R11N

POT Sta 62+55.86

STA 65+25.14,
29.85' LT
FND ⅝" I.P.

EX ROW LINE PER BK 139 PG 458

℄ F.A.S. RTE 747 (IL RTE 109)

65+00

N 00° 10' 28" E 604.95'

N 00° 13' 18" E 1,311.17'

SET MAG NAIL
S.E. COR, SEC 28
T7N, R11W, 3RD P.M.
DOC #202100164229
P.O.C. 8006001 & 8006002
STA 62+95.05, 0.23' RT

(50') (50') (50') (50') (50') (153.4')

STA 63+19.98,
30.16' RT
FND ⅝" I.P.

STA 65+69.98
30.00' RT

STA 67+23.38
29.90' RT

LOT 6 LOT 7 LOT 8 LOT 9 LOT 10

25'

BLOCK 2
TOWN OF NEW BERN
NOW TOWN OF EAST NEW BERN
(BK 28 PG 462)

(284')
S 89° 38' 53" E 284.00'

(153.4')
S 00° 02' 09" W 153.40'

S 00° 11' 08" W 275.00'

S 89° 38' 53" E
15.60'

BLOCK 1

2,653.87'
S 89° 38' 53" E 996.99'

SOUTH LINE S.W. SEC. 27, T7N, R11N

S.E. COR, S.W. 1#4, S.W. 1#4
SEC 27, T7N, R11W, 3RD P.M.

SW ¼, SW ¼
SECTION 27

EAST LINE S.W. ¼, S.W. ¼, SEC 27

FOUND RAILROAD SPIKE
S.W. COR, S.E. ¼
SECTION 27 T7N
R11W, 3RD P.M.
DOC #202100125461
STA 62+89.01
2,654.09' RT

POB 8006001 &
8006002
STA 69+00.00
0.26' LT

STA 69+00.00
30.21' LT

STA 70+00.00
80.00' LT

N 00° 13' 18" E
50.00'

STA 70+50.00
80.00' LT

N 26° 14' 52" W
111.71'

N 32° 02' 41" E
94.15'

8006002

STA 71+30.00
30.35' LT

S 89° 46' 42" E
29.90'

N 89° 46' 42" W 29.95'

S 00° 10' 28" W
230.00'

70+00

N 89° 46' 42" W 30.05'

N 00° 10' 28" E 240.00'

STA 71+30.00
0.45' LT

STA 71+40.00
0.46' LT

S 89° 46' 42" E
30.10'

STA 71+40.00
29.64' RT

STA 69+00.00
29.79' RT

S 38° 56' 42" W
96.18'

8006001

S 32° 37' 35" E
108.37'

S 00° 13' 18" W
75.00'

STA 69+75.00
90.00' RT

STA 70+50.00
90.00' RT

N 00° 11' 08" E 1,243.17'

N 00° 10' 28" E 2,651.95'

N 00° 11' 08" E 1,248.37'

EAST LINE S.E. ¼ SEC 28

WEST LINE S.W. ¼ SEC 27

75+00

F.A.S. RTE 747 (IL RTE 109)

EX ROW LINE PER BK 139 PG 432

N.W. COR
S.E. ¼, S.E. ¼,
SEC 27, T7N, R11W,
3RD P.M.

STA 75+68.35
30.68' LT
FND I.P. ⅝

PC Sta 75+67.03

N 89° 34' 29" W 1,325.38'

NORTH LINE S.W. SEC. 28, T7N, R11N

STA 75+60.32
29.37' RT
FND I.P. ⅝

FOUND RAIL ROAD SPIKE
N.E. COR, S.E. ¼, SEC 28
T7N, R11W, 3RD P.M.
DOC #201100125465

S 89° 34' 29" E 1,327.82'

NORTH LINE S.W. SEC. 27, T7N, R11N

N.E. COR
S.W. ¼, S.W. ¼,
SEC 27, T7N, R11W,
3RD P.M.

DORIS E. HALL AS TRUSTEE UNDER
A TRUST AGREEMENT DATED APRIL 16, 2003
KNOWN AS THE DORIS E. HALL REVOCABLE
LIVING TRUST
BK 1831 PG 320

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
62+55.86	0.00	41,501.0049	93,500.3844
62+95.05	0.23 RT	41,540.1901	93,500.7701
63+25.14	29.85 LT.	41,570.3975	93,470.8047
63+19.98	30.16 RT.	41,565.0062	93,530.7876
69+00.00	30.21 LT.	42,145.2569	93,472.6671
69+00.00	0.26 LT.	42,145.1411	93,502.6126
69+00.00	29.79 RT.	42,145.0249	93,532.6666
69+75.00	90.00 RT.	42,219.7915	93,593.1648
70+00.00	80.00 LT.	42,245.4487	93,423.2628
70+50.00	80.00 LT.	42,295.4483	93,423.4561
70+50.00	90.00 RT.	42,294.7909	93,593.4548
71+30.00	0.45' LT.	42,375.1401	93,503.3131
71+40.00	0.46' LT	42,385.1401	93,503.3436
71+30.00	30.35 LT.	42,375.2557	93,473.4122
71+40.00	29.64 RT.	42,385.0237	93,533.4441
75+68.35	30.63 LT.	42,813.5648	93,474.8321
75+67.03	0.00	42,812.1666	93,505.4550
75+68.32	29.37 RT.	42,813.3704	93,534.8318

PARCEL NO.	OWNER	TOTAL HOLDING	FEE SIMPLE ACQUISITION						REMAINDER	PERMANENT TAX NUMBER AFFECTED	PROPERTY ACQUIRED BY
			GROSS		PREVIOUSLY DEDICATED		NET				
		ACRES	ACRES	SQ FT	ACRES	SQ FT	ACRES	SQ FT	ACRES		
8006001	DORIS E. HALL AS TRUSTEE UNDER A TRUST AGREEMENT DATED APRIL 16, 2003 KNOWN AS THE DORIS E. HALL REVOCABLE LIVING TRUST / T.R.#JE-1364 5	37.296	0.3837	16,713	0.1667	7,219	0.2170	9,494	36.9123	05-027-004-00	
8006002	A LIFE ESTATE IN WILLIAM E. KOENIG, REMAINDER INTEREST IN EDWARD E. KOENIG, TRUSTEE UNDER A SELF DECLARATION OF TRUST DATED JUNE 7,1984 / T.R.#JE-1365 5	121.324	0.3178	13,842	0.1580	6,882	0.1598	6,960	121.0059	05-028-006-00	

PRELIMINARY

Veenstra & Kimm, Inc.
2417 West White Oaks Dr.
Springfield, IL 62704
217-544-8033

STATE OF ILLINOIS)
) SS
COUNTY OF SANGAMON)

I, SHAYLA E. PFAFFE, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED MAY 24TH, 2021

SHAYLA E. PFAFFE, PLS NO. 35-003411
LICENSE EXPIRATION DATE: 11/30/2022

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAS ROUTE 747/FAU 8813 (IL RTE 109)
SECTION (57,58,59)RS-2
JERSEY COUNTY
JOB NO. R-98-006-20
STATION 69+00.00 TO STATION 71+40.00

50' 0 50' 100'
SCALE: 1" = 1'

SHEET 3 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

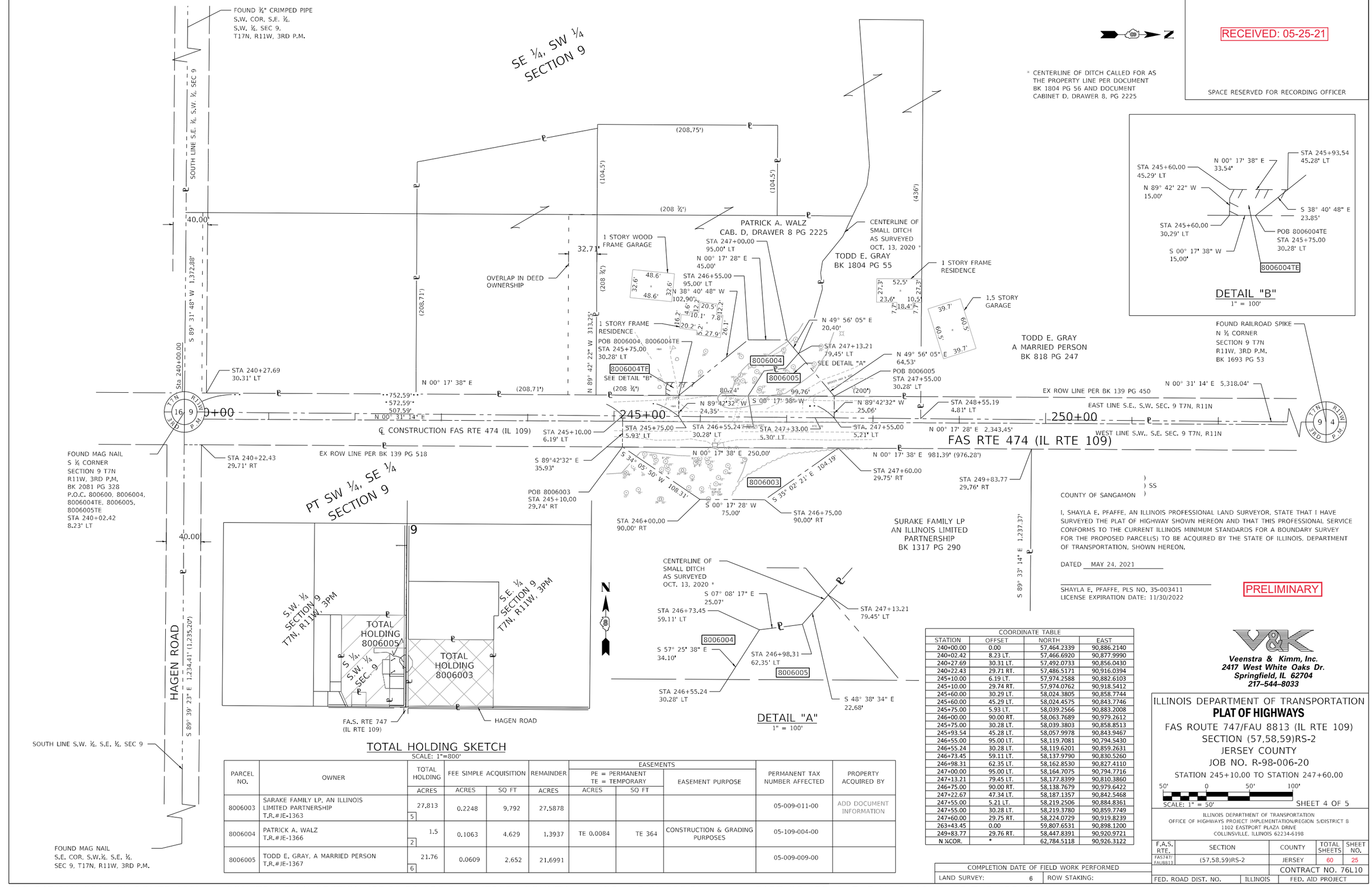
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS747/ FAU8813	(57,58,59)RS-2	JERSEY	60	24
			CONTRACT NO. 76L10	
FED. ROAD DIST. NO. _		ILLINOIS	FED. AID PROJECT	

COMPLETION DATE OF FIELD WORK PERFORMED			
LAND SURVEY:	6	ROW STAKING:	

SEE LEGENDS, TOPOGRAPHIC STATEMENT, SURVEYORS NOTE(S) AND BASIS OF COORDINATES & BEARINGS STATEMENT ON SHEET 2

RECEIVED: 05-25-21

SPACE RESERVED FOR RECORDING OFFICER



* CENTERLINE OF DITCH CALLED FOR AS THE PROPERTY LINE PER DOCUMENT BK 1804 PG 56 AND DOCUMENT CABINET D, DRAWER 8, PG 2225

TOTAL HOLDING SKETCH

SCALE: 1"=800'

PARCEL NO.	OWNER	TOTAL HOLDING	FEE SIMPLE ACQUISITION		REMAINDER	EASEMENTS PE = PERMANENT TE = TEMPORARY		EASEMENT PURPOSE	PERMANENT TAX NUMBER AFFECTED	PROPERTY ACQUIRED BY
		ACRES	ACRES	SQ FT	ACRES	ACRES	SQ FT			
8006003	SARAKE FAMILY LP, AN ILLINOIS LIMITED PARTNERSHIP T.R.#JE-1363	27.813 [5]	0.2248	9,792	27.5878				05-009-011-00	ADD DOCUMENT INFORMATION
8006004	PATRICK A. WALZ T.R.#JE-1366	1.5 [2]	0.1063	4,629	1.3937	TE 0.0084	TE 364	CONSTRUCTION & GRADING PURPOSES	05-109-004-00	
8006005	TODD E. GRAY, A MARRIED PERSON T.R.#JE-1367	21.76 [6]	0.0609	2,652	21.6991				05-009-009-00	

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
240+00.00	0.00	57,464.2339	90,886.2140
240+02.42	8.23 LT.	57,466.6920	90,877.9990
240+27.69	30.31 LT.	57,492.0733	90,856.0430
240+22.43	29.71 RT.	57,486.5171	90,916.0394
245+10.00	6.19 LT.	57,974.2588	90,882.6103
245+10.00	29.74 RT.	57,974.0762	90,918.5412
245+60.00	30.29 LT.	58,024.3805	90,858.7744
245+60.00	45.29 LT.	58,024.4575	90,843.7746
245+75.00	5.93 LT.	58,039.2566	90,883.2008
246+00.00	90.00 RT.	58,063.7689	90,979.2612
245+75.00	30.28 LT.	58,039.3803	90,858.8513
245+93.54	45.28 LT.	58,057.9978	90,843.9467
246+55.00	95.00 LT.	58,119.7081	90,794.5430
246+55.24	30.28 LT.	58,119.6201	90,859.2631
246+73.45	59.11 LT.	58,137.9790	90,830.5260
246+98.31	62.35 LT.	58,162.8530	90,827.4110
247+00.00	95.00 LT.	58,164.7075	90,794.7716
247+13.21	79.45 LT.	58,177.8399	90,810.3860
246+75.00	90.00 RT.	58,138.7679	90,979.6422
247+22.67	47.34 LT.	58,187.1357	90,842.5468
247+55.00	5.21 LT.	58,219.2506	90,884.8361
247+55.00	30.28 LT.	58,219.3780	90,859.7749
247+60.00	29.75 RT.	58,224.0729	90,919.8239
263+43.45	0.00	59,807.6531	90,898.1200
249+83.77	29.76 RT.	58,447.8391	90,920.9721
N ¼COR.	*	62,784.5118	90,926.3122

COUNTY OF SANGAMON)) SS)

I, SHAYLA E. PFAFFE, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED MAY 24, 2021

SHAYLA E. PFAFFE, PLS NO. 35-003411
LICENSE EXPIRATION DATE: 11/30/2022

PRELIMINARY

Veenstra & Kimm, Inc.
2417 West White Oaks Dr.
Springfield, IL 62704
217-544-8033

COMPLETION DATE OF FIELD WORK PERFORMED			
LAND SURVEY:	6	ROW STAKING:	

ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAS ROUTE 747/FAU 8813 (IL RTE 109)
SECTION (57,58,59)RS-2
JERSEY COUNTY
JOB NO. R-98-006-20
STATION 245+10.00 TO STATION 247+60.00

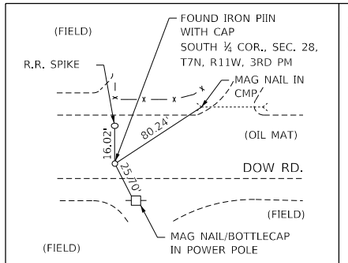
50' 0 50' 100'
SCALE: 1" = 50'

SHEET 4 OF 5

ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

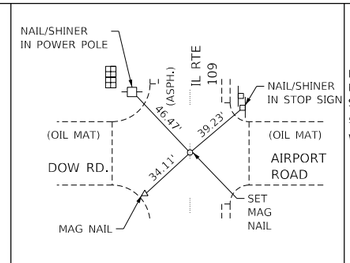
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS747/FAU8813	(57,58,59)RS-2	JERSEY	60	25
			CONTRACT NO. 76L10	
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SECTION CORNER AND CENTERLINE TIE SHEET



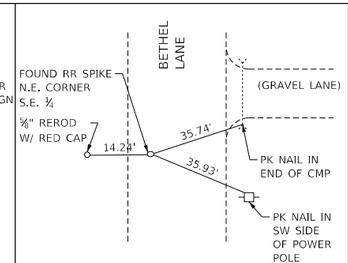
S ¼ COR SEC 28, T.7N., R.11W.

05/18/2021 MONUMENT RECORD DOC. NO. 202100164229
N=41,558.4846, E=90,847.6100



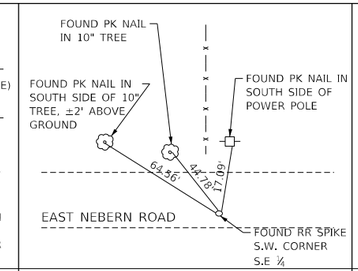
S.E. COR SEC 28, T.7N., R.11W.

05/18/2021 MONUMENT RECORD DOC. NO. 202100164229
N=41,540.1901, E=93,500.7701



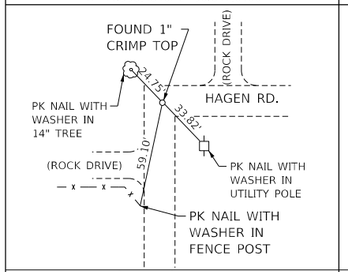
N.E. COR, S.E. ¼ SEC 28, T.7N., R.11W.

11/2003 MONUMENT RECORD BK 1693 PG 63
N=44,192.1305, E=93,508.8471



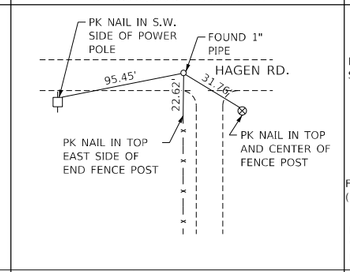
S.W. COR, S.E. ¼ SEC 27, T.7N., R.11W.

11/2003 MONUMENT RECORD BK 1693 PG 59
N=41,523.8920, E=96,154.5860



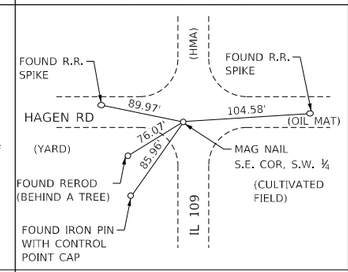
S.W. COR S.E. ¼ S.W. ¼ SEC 9, T.7N., R.11W.

01/31/2011 BK 1693 PG 56
N=57,477.7260, E=89,543.1060



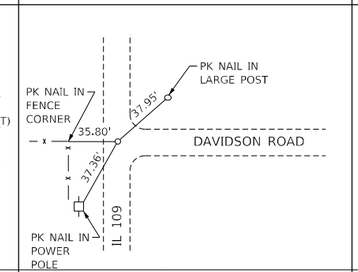
S.E. COR ¼ SEC 9, T.7N., R.11W.

01/31/2011 BK 1693 PG 53
N=57,445.0250, E=93,547.4630



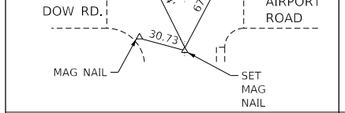
S.E. COR S.W. ¼ SEC 9, T.7N., R.11W.

10/26/2017 BK 2081 PG 328
N=57,466.6920, E=90,877.9990



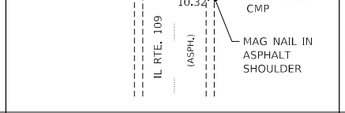
N.W. COR N.E. ¼ SEC 9, T.7N., R.11W.

11/30/2012 BK 1693 PG 53
N=62,784.5118, E=90,926.3122



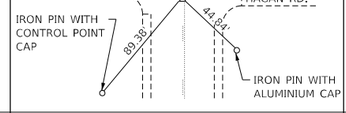
POT #400 STA 62+55.86

N=41,501.0049, E=93,500.3844



PC CURVE C2 STA 75+67.03

N=42,812.1666, E=93,505.4550

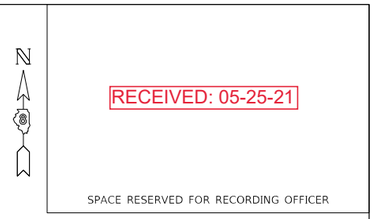


POT #102 STA 240+00.00

N=57,464.2339, E=90,886.2140

POT #101 STA 263+43.34

N=59,807.6531, E=90,898.1200



NOTE: STATE AND COUNTY WHERE PLATS WERE SIGNED AND SEALED SHOULD FILLED IN BELOW

PRELIMINARY

STATE OF ILLINOIS)
) SS
COUNTY OF SANGAMON)

I, SHAYLA E. PFAFFE, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, STATE THAT I HAVE SURVEYED THE PLAT OF HIGHWAY SHOWN HEREON AND THAT THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY FOR THE PROPOSED PARCEL(S) TO BE ACQUIRED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION, SHOWN HEREON.

DATED MAY 24TH, 2021

SHAYLA E. PFAFFE, PLS NO. 35-003411
LICENSE EXPIRATION DATE: 11/30/2022

Veenstra & Kimm, Inc.
2417 West White Oaks Dr.
Springfield, IL 62704
217–544–8033

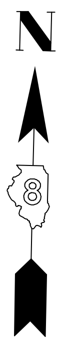
ILLINOIS DEPARTMENT OF TRANSPORTATION
PLAT OF HIGHWAYS
FAS 747/FAU8813 (IL ROUTE 109)
SECTION (57,58,59)RS-2
JERSEY COUNTY
JOB NO. R-98-006-20
STATION 00+00 TO STATION 00+00

NOT TO SCALE SHEET 5 OF 5

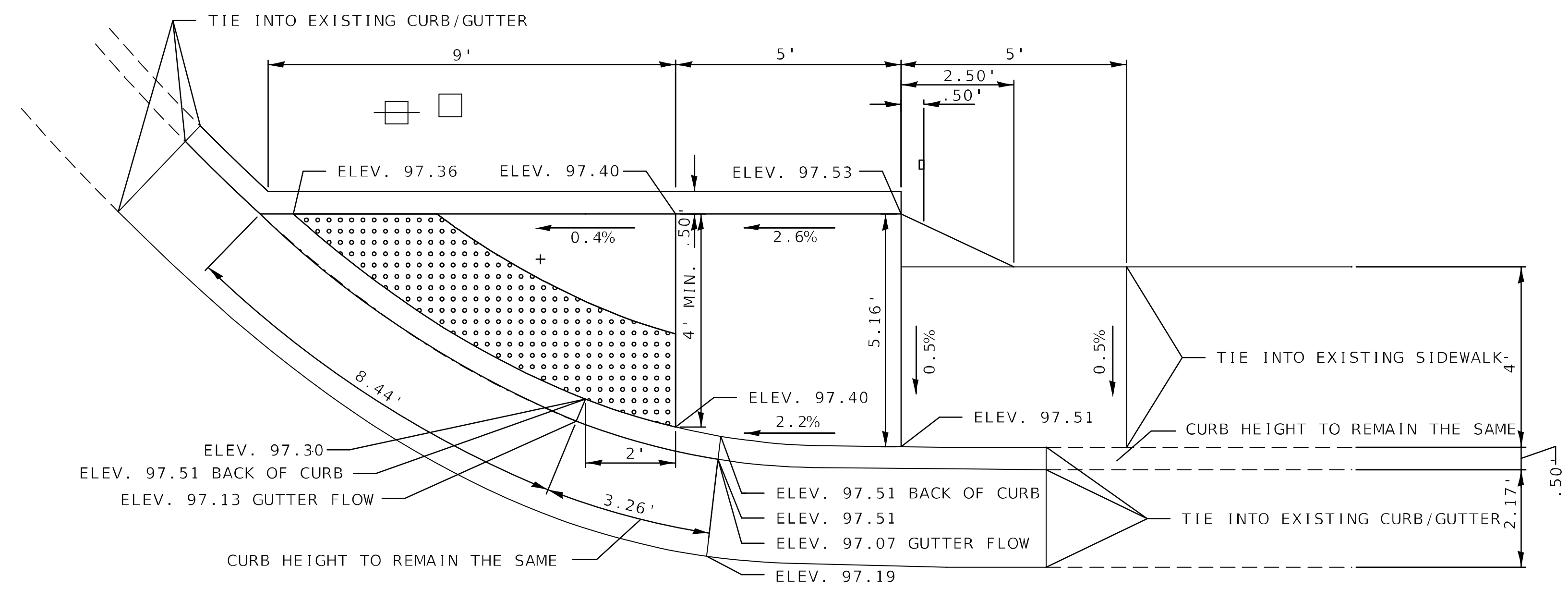
ILLINOIS DEPARTMENT OF TRANSPORTATION
OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION/REGION 5/DISTRICT 8
1102 EASTPORT PLAZA DRIVE
COLLINSVILLE, ILLINOIS 62234-6198

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS747/FAU8813	(57,58,59)RS-2	JERSEY	60	26
		CONTRACT NO. 76L10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

COMPLETION DATE OF FIELD WORK PERFORMED	
LAND SURVEY:	ROW STAKING:

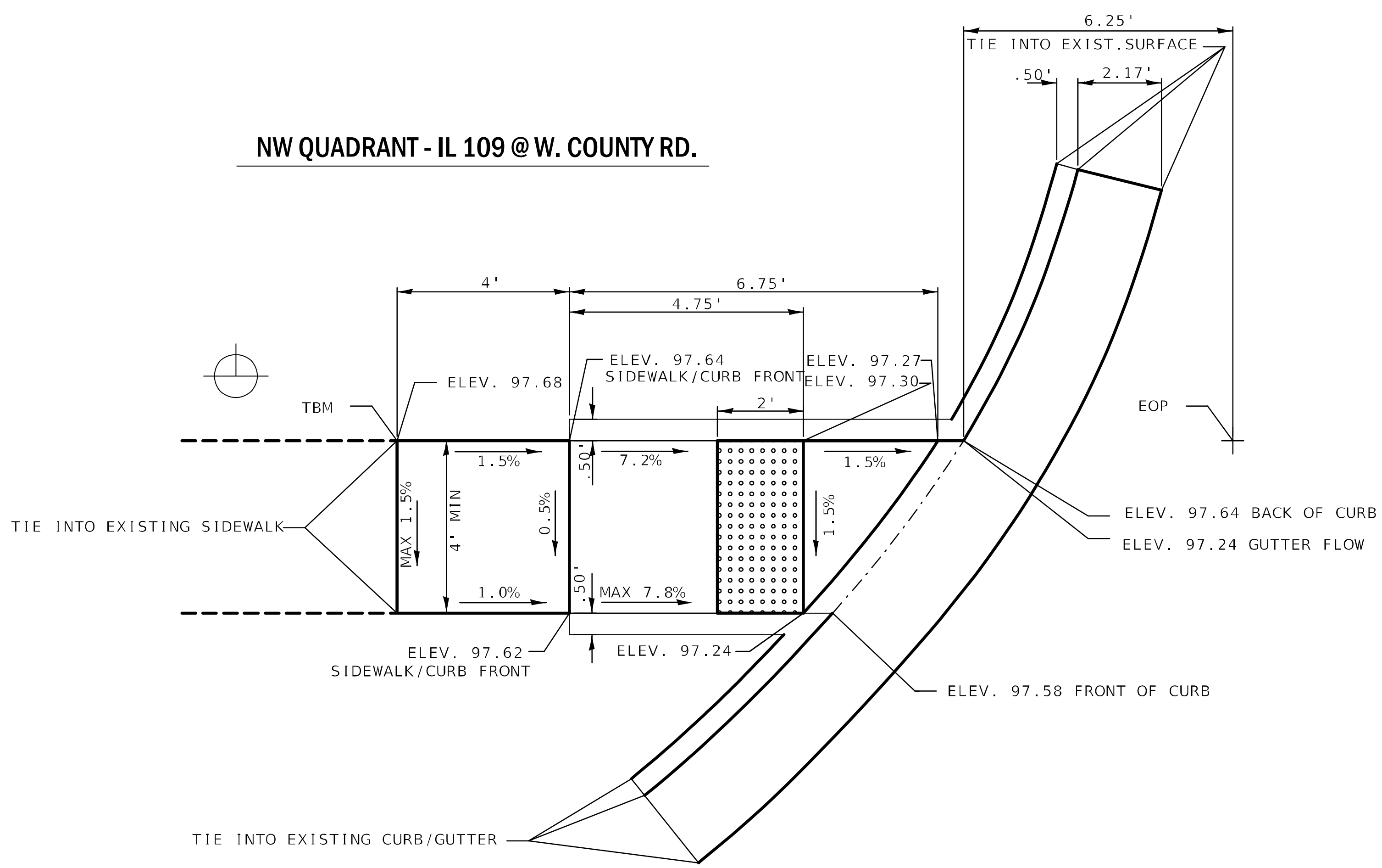


NE QUADRANT - IL 109 @ W. COUNTY RD.



NOTE: ALL AREAS DISTURBED FOR ANY REASON SHALL BE PERMANENTLY SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER.

NW QUADRANT - IL 109 @ W. COUNTY RD.



NOTE: ALL DIMENSIONS AND ELEVATIONS IN FT.

USER NAME = murrayda	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED -	
PLOT SCALE = 2.0006 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 7/29/2021	DATE -	REVISED -	

ADA DETAILS

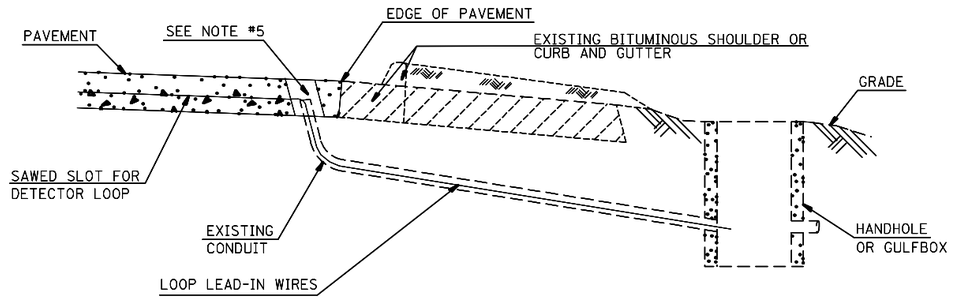
SCALE: ______ SHEET 1 OF 1 SHEETS STA. ______ TO STA. ______

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 6813	(57,58,59) RS-2	JERSEY	60	27
		CONTRACT NO. 76L10		
		ILLINOIS FED. AID PROJECT		

NOTES:

SEE TABLE "DETECTOR LOOP REQUIREMENTS AND CALCULATIONS" FOR LOOP SIZE AND CALCULATED NUMBER OF TURNS.
SEE "DETAIL A" FOR INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUITS.

SCHEDULE OF QUANTITIES			TOTAL QUANTITIES	IL 109 & US 67
CODE NO	ITEM	UNIT		
~~88600600~~	DETECTOR LOOP REPLACEMENT	FOOT	662	662



DETAIL A
(NO SCALE)
INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUIT

1. DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
2. REMOVE EXISTING DETECTOR LOOP WIRES TO HANDHOLE OR GULFBOX.
3. INSTALL NEW LOOP LEAD-IN WIRES IN EXISTING CONDUIT.
4. SPLICE NEW DETECTOR LOOP WIRES TO EXISTING LOOP LEAD-IN CABLE IN HANDHOLE OR GULFBOX.
5. FILL HOLE WITH APPROVED SEALER. PREVENT SEALER FROM ENTERING INTO CONDUIT.

NOT A PAY ITEM. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT"

DETECTOR LOOP REPLACEMENT LEGEND

- EX. HANDHOLE
- EX. DETECTOR LOOP
- EX. TRAFFIC SIGNAL CONTROLLER
- EXISTING CONDUIT
- PROPOSED DETECTOR LOOP

MODEL: $MODELNAMES
FILE NAME: pw:\\dlanrcom.dot.illinois.gov:PWIDOT\Documents\IDOT Office\10kHz1 8\Projects\103761 10\CADData\CADSheets\103761 10-sht-dan.dgn

USER NAME = murrayda	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 2.0017 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 7/29/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
GENERAL NOTES, SCHEDULE OF QUANTITIES, DETAIL AND LEGEND

SCALE: _____ | SHEET __ OF __ SHEETS | STA. _____ | TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(57,58,59)RS-2	JERSEY	60	28
*~~FAS~~ 747/FAU 8813		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			

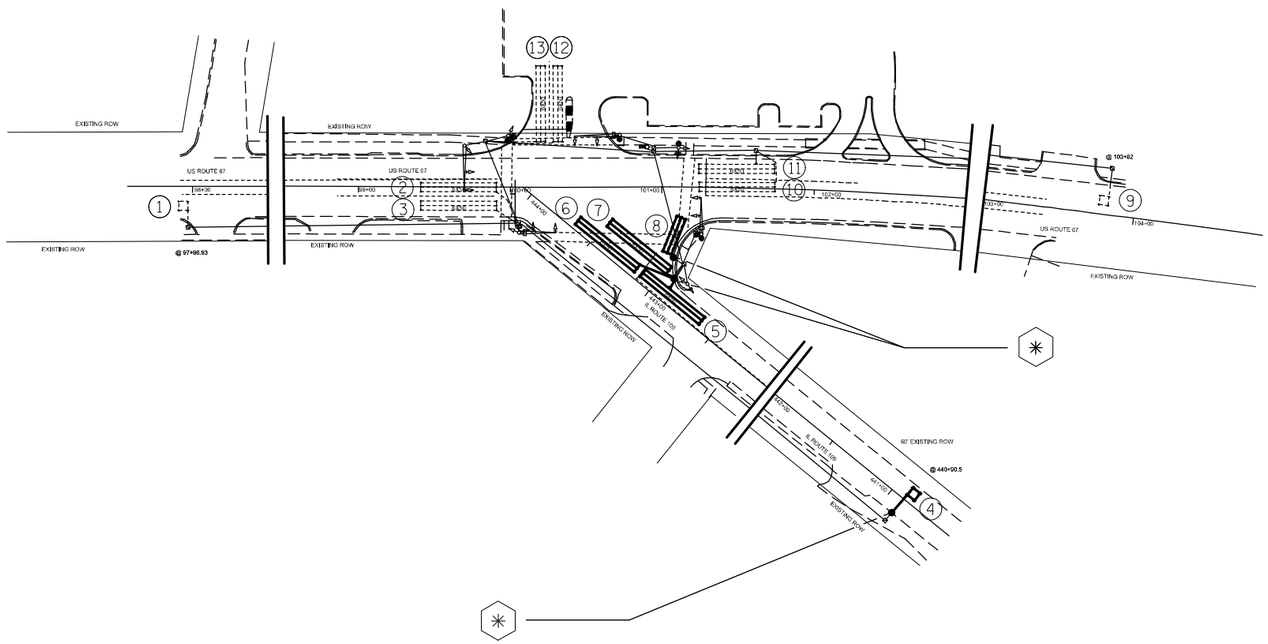
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS

LOOP#	PHASE # (Φ)	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (μH)	CALCULATED RESISTANCE OHMS (Ω)
1. EB CCO	2	6′ x 6′	6	256	0.4
2. EBLT CD	2	6′ x 50′(Q)	3-6-3	789	1.7
3. EB THRU CD	2	6′ x 50′(Q)	3-6-3	788	1.6
4. NB CCO	3	6′ x 6′	6	258	0.4
5. NBLT CD	3	6′ x 50′(Q)	3-6-3	786	1.6
6. NBLT CD	3	6′ x 50′(Q)	3-6-3	792	1.7
7. NB THRU CD	3	6′ x 50′(Q)	3-6-3	787	1.6
8. NBRT CD	3	6′ x 25′(Q)	3-6-3	412	0.9
9. WB CCO	6	6′ x 6′	6	256	0.4
10. WBLT CD	6	6′ x 50′(Q)	3-6-3	787	1.6
11. WB THRU CD	6	6′ x 50′(Q)	3-6-3	786	1.6
12. SBLT CD	4	6′ x 50′(Q)	3-6-3	792	1.7
13. SB THRU CD	4	6′ x 50′(Q)	3-6-3	790	1.7

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

Q=QUADRAPOLE

(*) =SEE DETAIL ''A''



SCALE: 1" = 50′

USER NAME = murrayda	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 2.0037 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 7/29/2021	DATE -	REVISED -	

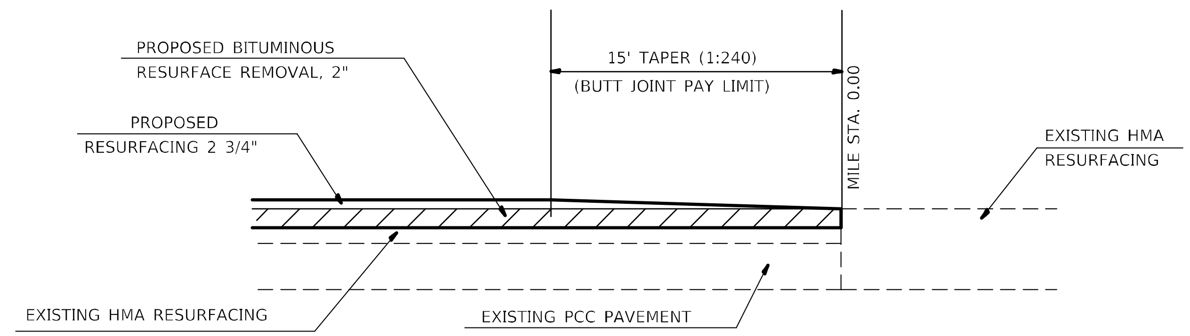
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
IL 109 & US 67

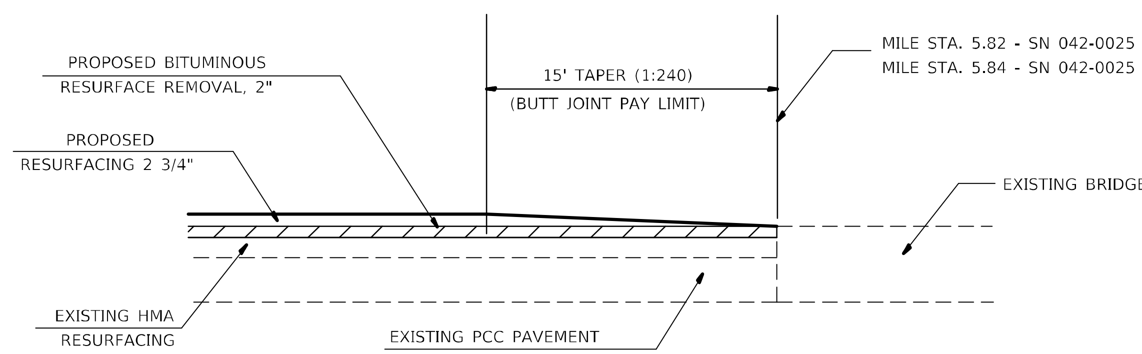
SCALE: _____ SHEET 2 OF 2 SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(57,58,59)RS-2	JERSEY	60	29
*FAS 747/FAU 8813		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			

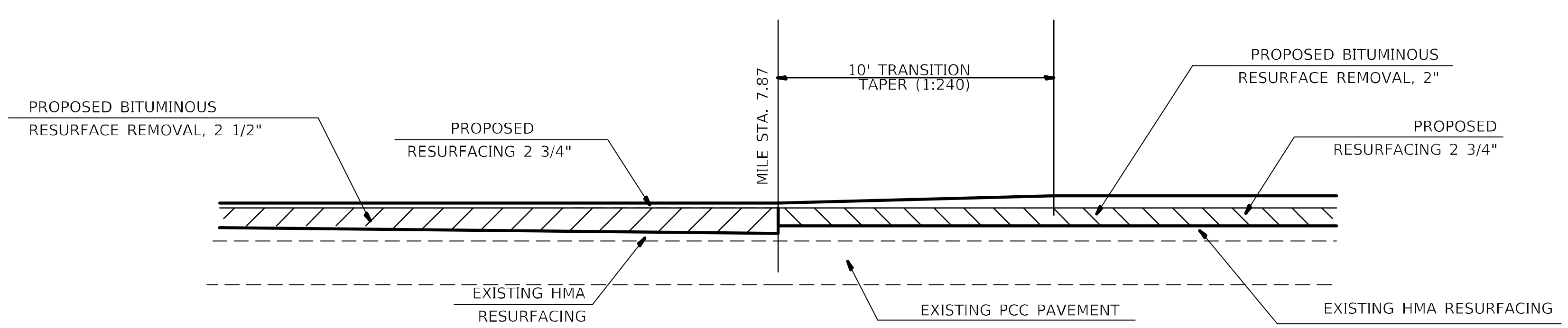
MODEL: $MODELNAMES
FILE NAME: pw:\\dallasroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\08761.10\CADData\CADsheets\08761.10-sht-plan.dgn



BUTT JOINT DETAIL AT THE BEGINNING OF THE PROJECT



BUTT JOINT DETAIL AT BRIDGE OMISSIONS - SN 042-0025



TRANSITION DETAIL AT W. COUNTY ROAD

MODEL: $MODELNAMES
FILE NAME: pw:\\planroom.dot.illinois.gov:PWIDOT\Documents\IDOT Offices\District 8\Projects\D876L10\CADData\CADsheets\D876L10-sht-plan.dgn

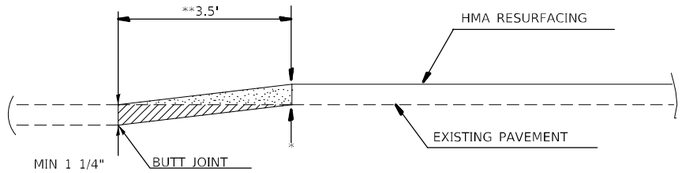
USER NAME = murrayda	DESIGNED - ________	REVISED - ________
	DRAWN - ________	REVISED - ________
PLOT SCALE = 2.0037 ' / in.	CHECKED - ________	REVISED - ________
PLOT DATE = 7/29/2021	DATE - ________	REVISED - ________

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

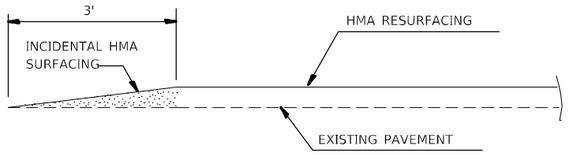
BUTT JOINT, TRANSITION, SIDEROAD & ENTRANCE DETAILS

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

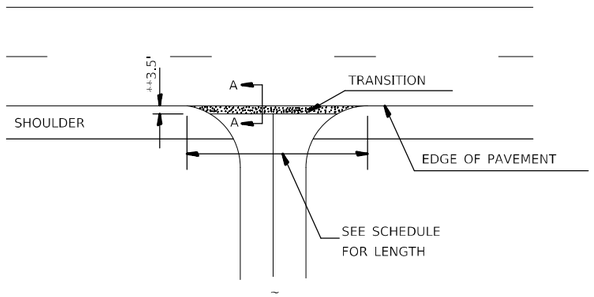
F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59) RS-2	JERSEY	60	30
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		



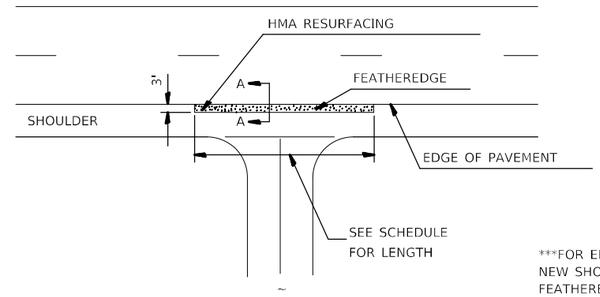
TRANSITION DETAIL
SECTION A-A
BUTT-JOINT ADDITION



FEATHEREDGE DETAIL
SECTION A-A



SIDEROAD DETAIL



ENTRANCE DETAIL***

***FOR ENTRANCES WITHIN THE LIMITS OF NEW SHOULDER CONSTRUCTION, THE FEATHEREDGE SHALL BEGIN AT THE EDGE OF SHOULDER.

*EOP ELEVATION CHANGE	**TOTAL TRANSITION LENGTH
1/2"	3.0'
3/4"	3.5'
1"	5'
1-1/2"	7.5'
2"	10'
2-1/2"	12.5'
3"	15'
3-1/2"	17.5'
4"	20'
4-1/2"	22.5'
5"	25'
5-1/2"	27.5
6"	30'

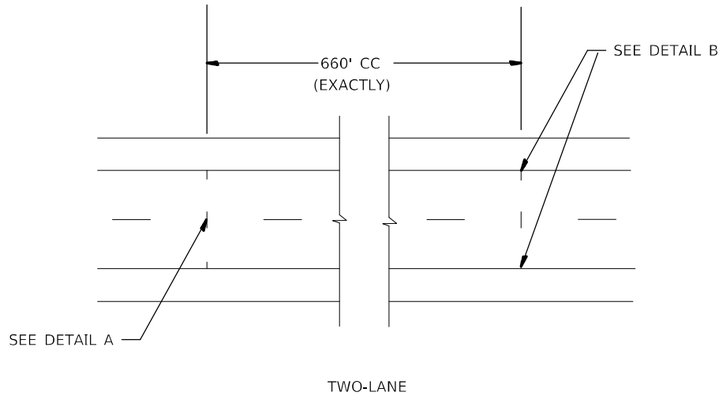
NOTE:
WHERE THE HMA TRANSITION IS MATCHING INTO AN EXISTING HMA SIDE ROAD SURFACE, A MILLED BUTT JOINT SHALL BE CONSTRUCTED WITHIN THE LIMITS OF THE TOTAL TRANSITION LENGTH ON THE LOCAL ROUTE.

USER NAME = murrayda	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 1.9944 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 7/29/2021	DATE - _____	REVISED - _____	

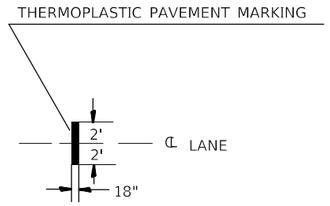
BUTT JOINT, TRANSITION, SIDEROAD & ENTRANCE DETAILS

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

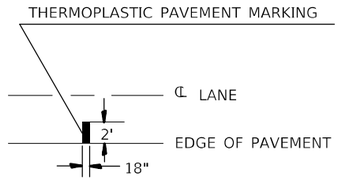
F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59) RS-2	JERSEY	60	31
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		



TWO-LANE



DETAIL A



DETAIL B

AERIAL SPEED CHECK ZONE DETAIL

NOTE: EXISTING AERIAL SPEED CHECK LOCATIONS ARE WITHIN THE RURAL SECTION BETWEEN IL ROUTE 3 AND HAGEN RD. PROPOSED AERIAL SPEED CHECK LOCATIONS ARE APPROXIMATED ON THE SCHEDULE AND IN ACCORDANCE TO THE DETAIL AND SHALL BE PLACED IN THE SAME LOCATIONS AS EXISTING AS DIRECTED BY THE ENGINEER.

NOT TO SCALE

USER NAME = murrayda	DESIGNED - _____	REVISED - _____	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN - _____	REVISED - _____	
PLOT SCALE = 2.0009 ' / in.	CHECKED - _____	REVISED - _____	
PLOT DATE = 7/29/2021	DATE - _____	REVISED - _____	

AERIAL SPEED CHECK ZONE DETAIL

SCALE: _____ | SHEET 1 OF 1 SHEETS | STA. _____ TO STA. _____

F.A.S. F.A.U.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747 8813	(57,58,59) RS-2	JERSEY	60	32
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		

GENERAL NOTES

1. IF THE CONTRACTOR, FOR HIS CONSTRUCTION ACTIVITY, REMOVES TREES WITHIN THE RIGHT-OF-WAY LIMITS WHICH ARE NOT DESIGNATED ON THE PLANS FOR REMOVAL, I.E. IN ORDER TO GAIN ACCESS TO THE PROJECT SITE; IT WILL BE HIS RESPONSIBILITY TO REPLACE THE TREES AT A 1:1 RATIO. THE TREES WILL BE REPLACED WITH A 1 GALLON NATIVE ILLINOIS TREE SPECIES AND SHALL BE APPROVED BY THE ENGINEER. THE TREE REMOVAL AND TREE REPLACEMENT WILL BE AT THE CONTRACTOR'S EXPENSE, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

2. TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1 THROUGH SEPTEMBER 30.

3. TWO CHANGEABLE MESSAGE BOARDS SHALL BE REQUIRED FOR THIS PROJECT AND SET UP TWICE, ONE FOR EACH CLOSURE. THEY SHALL BE PLACED TWO WEEKS PRIOR TO EACH ROAD CLOSURE. THE CHANGEABLE MESSAGE SHALL BE PLACED ALONG IL ROUTE 109 APPROXIMATELY 1 MILE NORTH AND SOUTH OF EACH ROAD CLOSURE LOCATION AS DIRECTED OF THE ENGINEER.

4. ALL ELEVATIONS REFER TO THE USGS MEAN SEA LEVEL DATUM.

BILL OF MATERIALS

PAY ITEM	CODED PAY ITEM	UNIT	QUANTITY
20100500	TREE REMOVAL, ACRES	ACRE	0.75
20200100	EARTH EXCAVATION	CU YD	840
20300100	CHANNEL EXCAVATION	CU YD	170
20400800	FURNISHED EXCAVATION	CU YD	210
20700220	POROUS GRANULAR EMBANKMENT	CU YD	168
20800150	TRENCH BACKFILL	CU YD	49
25000200	SEEDING, CLASS 2	ACRE	0.75
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	56
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	56
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	56
25100115	MULCH, METHOD 2	ACRE	0.75
25100630	EROSION CONTROL BLANKET	SQ YD	1170
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	30
28000305	TEMPORARY DITCH CHECKS	FOOT	370
28100109	STONE RIPRAP, CLASS A5	SQ YD	254
28200200	FILTER FABRIC	SQ YD	254
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	16
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	11
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	220
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	34
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	3
44004250	PAVED SHOULDER REMOVAL	SQ YD	50
44200211	PAVEMENT PATCHING, TYPE IV, 18 INCH	SQ YD	192
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	6
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	50
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
50102400	CONCRETE REMOVAL	CU YD	5
50105220	PIPE CULVERT REMOVAL	FOOT	98
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2
54010505	PRECAST CONCRETE BOX CULVERTS 5' X 5'	FOOT	91
54010605	PRECAST CONCRETE BOX CULVERTS 6' X 5'	FOOT	67
54213450	END SECTIONS 15"	EACH	2
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	131
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	141
60224459	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1
63500105	DELINEATORS	EACH	4
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56
X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	141
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
Z0016702	DETOUR SIGNING	L SUM	1
Z0023500	FILLING EXISTING CULVERTS	CU YD	49
Z0054517	ROCK FILL - FOUNDATION	TON	59

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 MM) THRU 84" (2100 MM) DIAMETER
542201-02	REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS, 15" (375 MM) THRU 36" (900 MM) DIAMETER SKEWED WITH ROADWAY
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
542411	SLOPED METAL END SECTIONS FOR PIPE CULVERTS 15" (375 MM) THRU 60" (1500 MM) DIAMETER
602701-02	MANHOLE STEPS
635001-02	DELINEATORS
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
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701901-08	TRAFFIC CONTROL DEVICES
B.L.R. 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

INDEX OF SHEETS

* FAS ROUTE 747, FAU ROUTE 8813 (IL ROUTE 109)

MODEL: $MODELNAME$
FILE NAME: P:\Projects\634400 - PTB 176-19 D8 Var Phl and II\634416 - WO 15 IL 109 Culverts\CADD\CAD Sheets\t0876L10-phl-gennote.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, HIGHWAY STANDARDS, TOTAL BILL OF MATERIAL AND INDEX OF SHEETS
IL ROUTE 109 CULVERT REPLACEMENTS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
"	(57,58,59) RS-2	JERSEY	60	33
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		

TREE REMOVAL SCHEDULE

LOCATION				TREE REMOVAL, ACRES
STATION	TO	STATION	SIDE	ACRE
69+44	TO	71+13	RT	0.15
69+48	TO	71+12	LT	0.13
245+41	TO	247+26	RT	0.17
245+74	TO	247+49	LT	0.15
			SUBTOTAL	0.60
			TOTAL	0.75

EARTHWORK SCHEDULE

CULVERT NORTH OF DOW ROAD

LOCATION			EARTH EXCAVATION	SHRINKAGE	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	WASTE (+) OR SHORTAGE (-)	CHANNEL EXCAVATION
STATION	TO	STATION	CU YD		CU YD	CU YD	CU YD	CU YD
69+55.00	TO	70+00.00	126.79	25%	95.09	213.60	-118.50	
70+18.20	TO	70+29.36				22.10	-22.10	149.06
70+40.00	TO	71+00.00	96.88	25%	72.66	136.14	-63.48	
		SUBTOTAL	223.68		167.76	371.84	-204.08	149.06
		ROUNDED					-210.00	
		EARTH EXCAVATION					230	
		CHANNEL EXCAVATION						150
		FURNISHED EXCAVATION					210	

CULVERT NORTH OF HAGEN ROAD

LOCATION			EARTH EXCAVATION	SHRINKAGE	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	WASTE (+) OR SHORTAGE (-)	CHANNEL EXCAVATION
STATION	TO	STATION	CU YD		CU YD	CU YD	CU YD	CU YD
245+60.00	TO	246+40.00	296.71	25%	222.53	108.65	113.88	
246+41.09	TO	246+51.84				26.92	-26.92	14.13
246+60.00	TO	247+20.00	305.49	25%	229.12	118.14	110.98	
		SUBTOTAL	602.20		451.65	253.71	197.94	
		ROUNDED					200.00	
		EARTH EXCAVATION					610	
		CHANNEL EXCAVATION						20
		TOTAL EARTH EXCAVATION					840	
		TOTAL CHANNEL EXCAVATION						170
		TOTAL FURNISHED EXCAVATION					210	

EROSION CONTROL SCHEDULE

LOCATION				EROSION CONTROL BLANKET	* TEMPORARY EROSION CONTROL SEEDING
STATION	TO	STATION	SIDE	SQ YD	POUND
69+50	TO	69+80	RT	33	1
69+50	TO	71+00	LT	209	5
69+50	TO	71+00	RT	259	6
69+60	TO	70+30	LT	85	2
70+31	TO	71+01	RT	50	2
70+31	TO	71+00	LT	28	1
245+59	TO	246+22	RT	174	4
245+87	TO	245+97	LT	13	1
245+87	TO	246+55	LT	60	2
246+33	TO	247+05	RT	225	5
246+80	TO	247+17	LT	34	1
			SUBTOTAL	1,170	30
			TOTAL	1,170	30

* SEEDING TO BE PLACED IN THREE (3) APPLICATIONS.

SEEDING SCHEDULE

LOCATION				SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	MULCH, METHOD 2
STATION	TO	STATION	SIDE	ACRE	POUND	POUND	POUND	ACRE
69+44	TO	71+13	RT	0.15	14	14	14	0.15
69+48	TO	71+12	LT	0.13	12	12	12	0.13
245+41	TO	247+26	RT	0.17	16	16	16	0.17
245+74	TO	247+49	LT	0.15	14	14	14	0.15
			SUBTOTAL	0.60	56	56	56	0.60
			TOTAL	0.75	56	56	56	0.75

TEMPORARY DITCH CHECK SCHEDULE

LOCATION		TEMPORARY DITCH CHECKS
STATION	SIDE	FOOT
NORTH OF DOW ROAD		
69+63	LT	18
69+85	LT	18
70+07	LT	18
70+34	LT	18
70+47	LT	18
70+60	LT	17
70+73	LT	17
70+03	RT	15
70+43	RT	15
70+58	RT	15
70+73	RT	15
SUBTOTAL		184
NORTH OF HAGEN ROAD		
245+60	RT	24
245+77	RT	24
245+94	RT	27
246+11	RT	29
246+40	RT	46
246+55	RT	36
SUBTOTAL		186
TOTAL		370

* FAS ROUTE 747, FAU ROUTE 8813 (IL ROUTE 109)

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULES
IL ROUTE 109 CULVERT REPLACEMENTS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
"	(57,58,59) RS-2	JERSEY	60	34
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		

ENTRANCE SCHEDULE

LOCATION		AGGREGATE BASE COURSE, TYPE B 6"	AGGREGATE SURFACE COURSE, TYPE B	INCIDENTAL HOT-MIX ASPHALT SURFACING
STATION	SIDE	SQ YD	TON	TON
247+10	LT	16	11	3
SUBTOTAL		16	11	3
TOTAL		16	11	3

PAVEMENT SCHEDULE

LOCATION				TRENCH BACKFILL	PAVED SHOULDER REMOVAL	PAVEMENT PATCHING, TYPE IV, 18 INCH	BITUMINOUS MATERIALS (PRIME COAT)	HOT-MIX ASPHALT SHOULDERS, 8"	BITUMINOUS MATERIALS (TACK COAT)	AGGREGATE WEDGE SHOULDER, TYPE B
STATION	TO	STATION	SIDE	CU YD	SQ YD	SQ YD	POUND	SQ YD	POUND	TON
70+08	TO	70+40		39		85	112			
70+08	TO	70+40	LT		11			11	8	1
70+08	TO	70+40	RT		11			11	8	1
246+25	TO	246+65		10		107	108			
246+25	TO	246+65	LT		14			14	9	2
246+25	TO	246+65	RT		14			14	9	2
SUBTOTAL				49	50	192	220	50	34	6
TOTAL				49	50	192	220	50	34	6

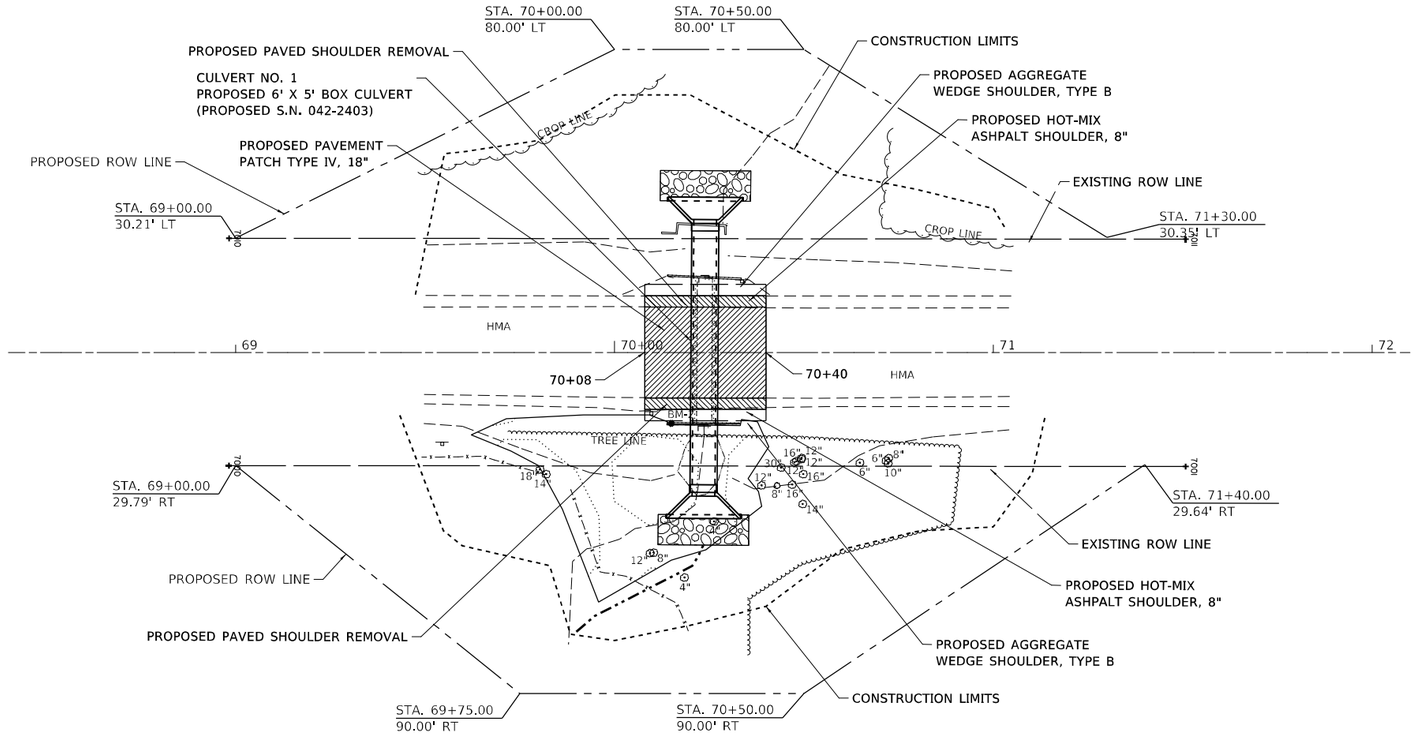
(1) PLACE BETWEEN LIFTS AT A RATE OF 0.025 POUNDS PER SQUARE FOOT. 3 LIFTS REQUIRED. (1)

DRAINAGE SCHEDULE

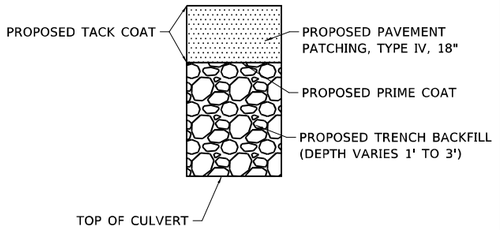
LOCATION				PIPE CULVERT REMOVAL	END SECTIONS 15"	PIPE CULVERTS, CLASS D, TYPE 1 15"
STATION	TO	STATION	SIDE	FOOT	EACH	FOOT
245+97.08			LT		1	
245+97.08	TO	246+54.48	LT			58
246+29.69	TO	246+49.21	LT	20		
246+54.20	TO	247+31.46	LT	78		
246+59.15	TO	247+31.46	LT			73
247+31.46			LT		1	
SUBTOTAL				98	2	131
TOTAL				98	2	131

TRAFFIC CONTROL SCHEDULE

LOCATION		DELINEATORS	CHANGEABLE MESSAGE SIGN	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	DETOUR SIGNING
STATION	SIDE	EACH	CAL DA	L SUM	L SUM
70+20.00	RT	1			
70+27.00	LT	1			
246+29.80	RT	1			
246+66.25	LT	1			
TOTAL		4	56	1	1



PROPOSED PAVEMENT SECTION



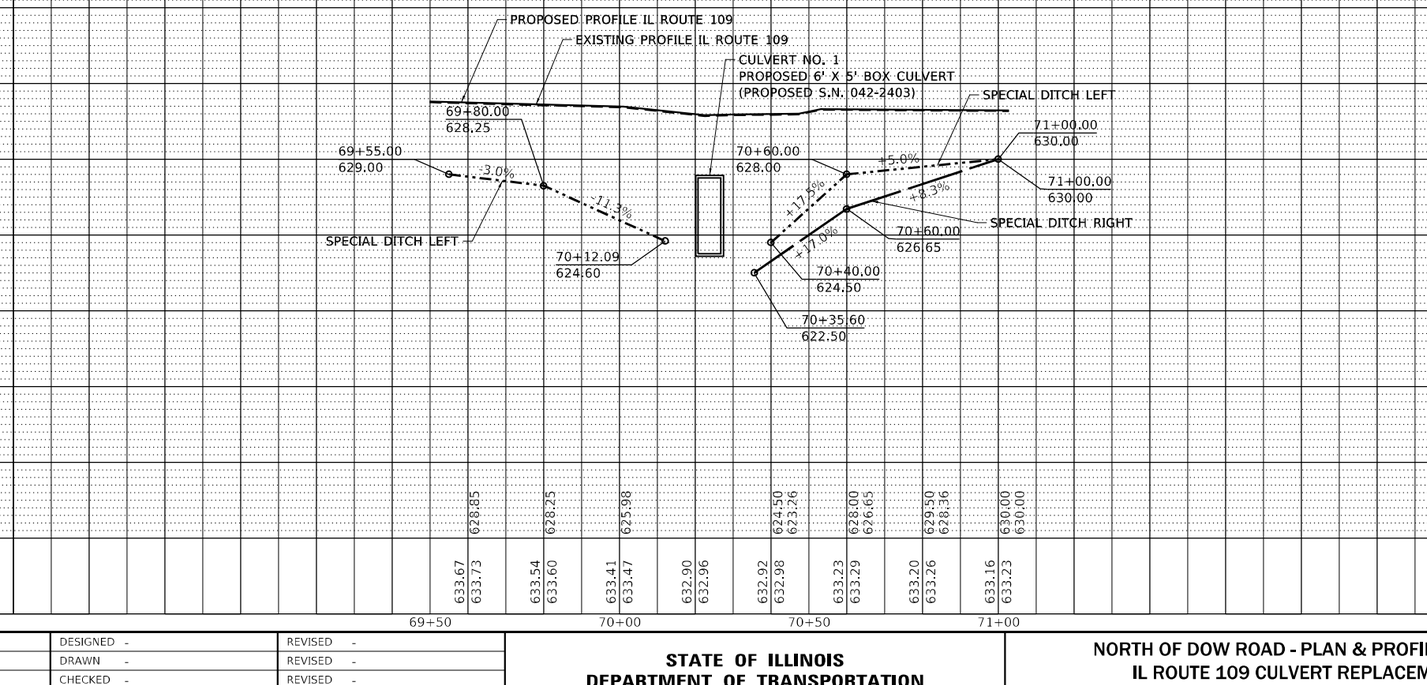
0 20 40 60
SCALE IN FEET

DAVID R. HOLLOWAY
062-064771
LICENSED PROFESSIONAL ENGINEER
OF
ILLINOIS

7/19/2021

DAVID R, HOLLOWAY, P.E. DATE
LICENSED PROFESSIONAL ENGINEER
ILLINOIS NO. 062–064771
EXPIRES: 11–30–2021

PLAN: SURVEYED, PLOTTED, CROSS CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE



PROFILE: SURVEYED, PLOTTED, CROSS CHECKED, S.H. NOTED, STRUCTURE NO., DATE, BY

MODEL: *MODEL NAMES*
FILE NAME: P:\Projects\634400 - PTB 176-19 D8 Var Ph 1 and Ill634416 - WO 15 (IL 109 Culverts\CADD\CAD Sheets\B876L10-ohdwrd.dgn

* FAS ROUTE 747, FAU ROUTE 8813 (IL ROUTE 109)

VOLKERT

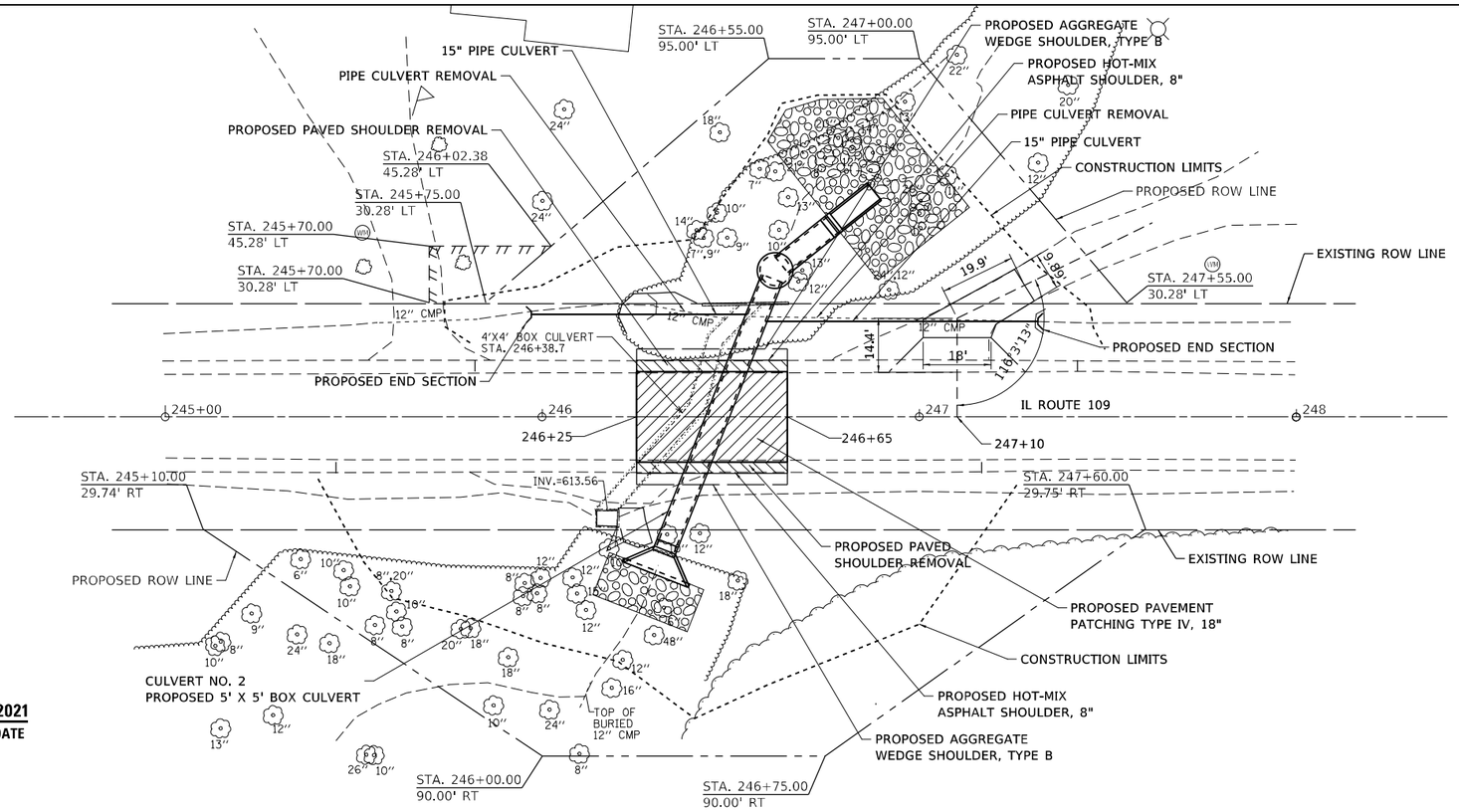
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

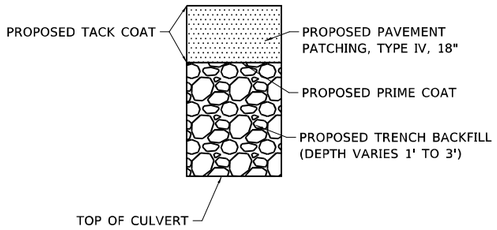
NORTH OF DOW ROAD - PLAN & PROFILE SHEET
IL ROUTE 109 CULVERT REPLACEMENT

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	(57,58,59) RS-2	JERSEY	60	36
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			



PROPOSED PAVEMENT SECTION

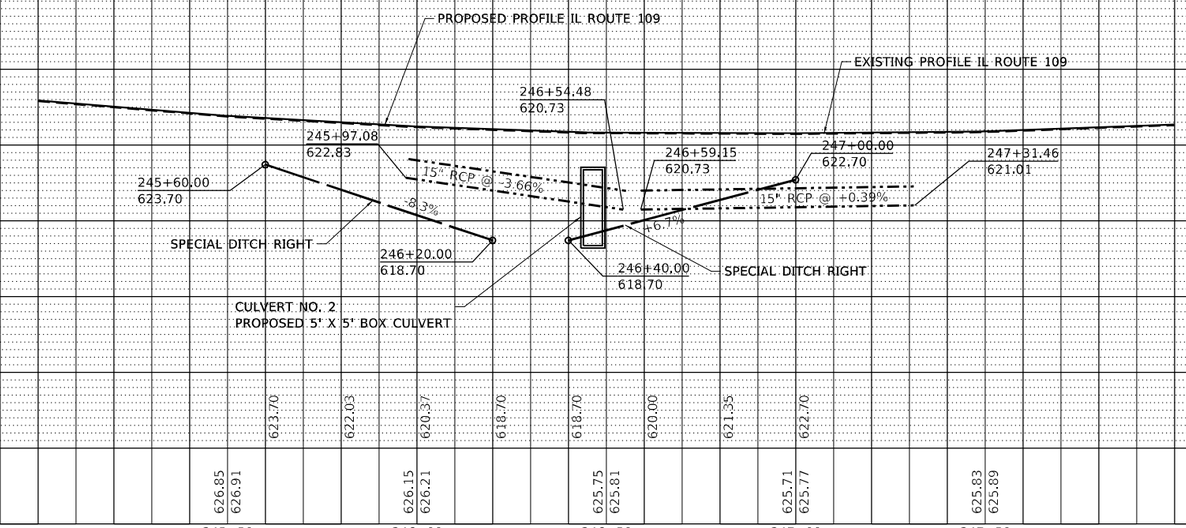


0 20 40 60
SCALE IN FEET

DAVID R. HOLLOWAY
062-064771
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

7/19/2021

DAVID R, HOLLOWAY, P.E. DATE
LICENSED PROFESSIONAL ENGINEER
ILLINOIS NO. 062–064771
EXPIRES: 11–30–2021



* FAS ROUTE 747, FAU ROUTE 8813 (IL ROUTE 109)

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH OF HAGEN ROAD - PLAN & PROFILE SHEET
IL ROUTE 109 CULVERT REPLACEMENT

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
"	(57,58,59) RS-2	JERSEY	60	37
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			

PLAN — SURVEYED | PLOTTED | QUANTITIES CHECKED | R/T. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK | NO. | BY | DATE

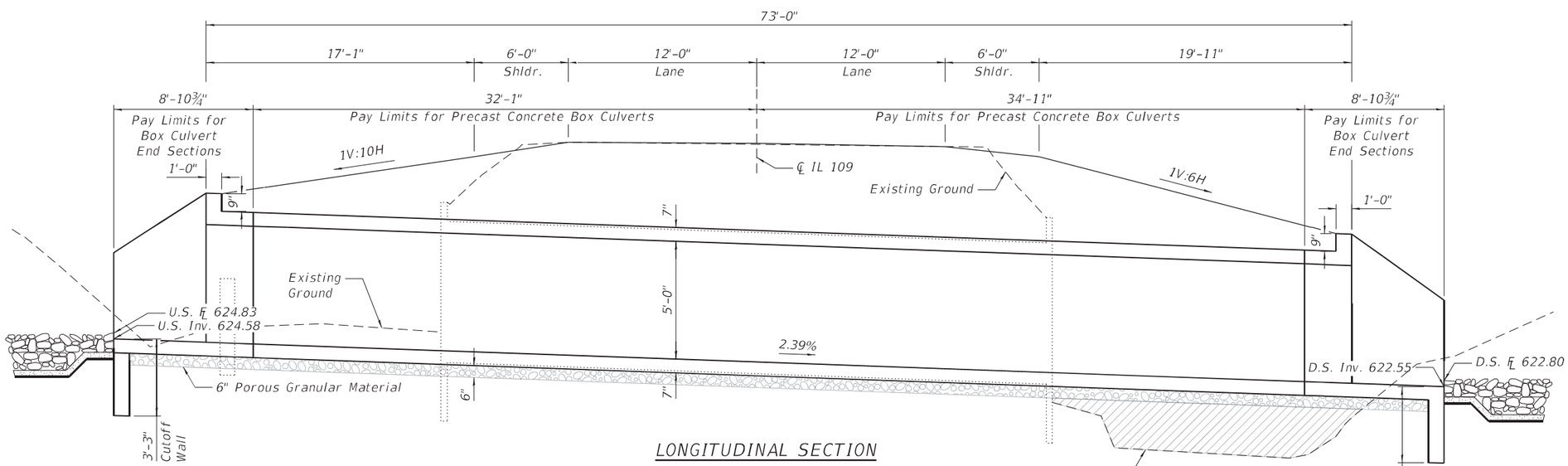
PROFILE — SURVEYED | PLOTTED | QUANTITIES CHECKED | S.M. NOTED | STRUCTURE NO'S/TYP'S CHK'D | NOTE BOOK | NO. | BY | DATE

MODEL: \$MODELNAME\$
FILE NAME: P:\Projects\634400 - PTB 176-19 D8 Var Ph I and II\634416 - WO 15 IL 109 Culverts\CADD\CAD Sheets\D876L10-sht-plan-prof.dgn

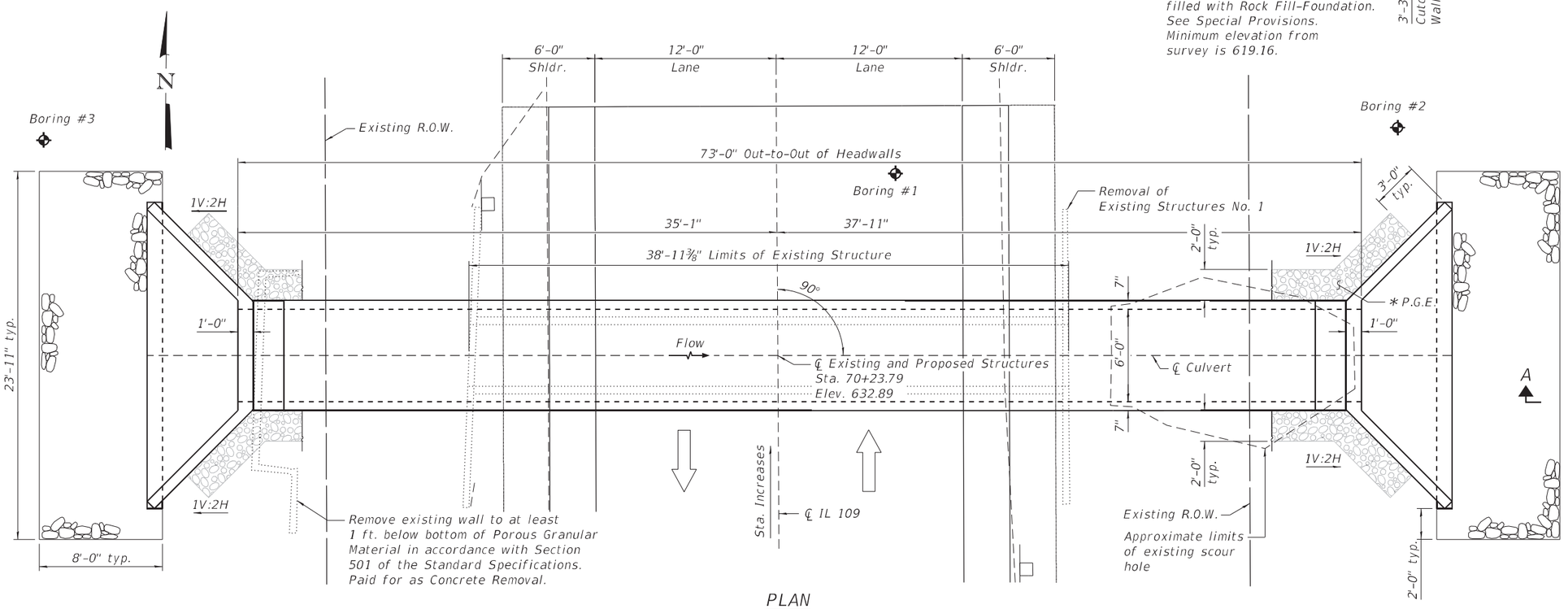
Benchmark: BM-1, Cut "□" in top of east headwall, 1'± north of south end of box culvert, Elev. 629.82.

Existing Structure: The existing 4'-0" x 5'-0" reinforced concrete box culvert was built at an unknown date. Existing structure is a single cell box culvert with a 5'-0" overall width and a 6'-0" overall height that is 38'-11⅜" long out to out of headwalls. The existing culvert will be removed and replaced. Roadway will be closed and traffic detoured during construction.
No Salvage.

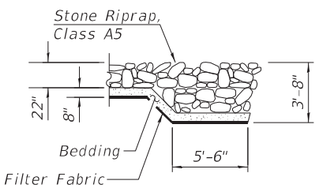
INDEX OF SHEETS



LONGITUDINAL SECTION



PLAN

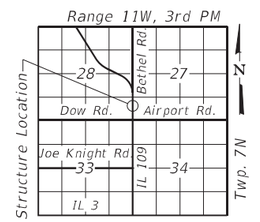


SECTION A-A

DESIGN STRESSES

PRECAST UNITS (New Construction)
f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Reinforcement)

FIELD UNITS (New Construction)
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)



LOCATION SKETCH

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

LOADING HL-93

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

*2'-0" width of P.G.E. to be installed full length of proposed culvert, to 3'-0" from the end of the proposed wingwalls. Adjacent to culvert, vertical limits are from bottom of bottom slab to top of top slab. Along wingwalls, vertical limits are from bottom of culvert bottom slab to 1'-0" below top of wingwall. P.G.E. shall be capped with a 12" thick layer of impervious material. Cost of impervious material shall be included in the cost of Porous Granular Embankment.

LICENSED STRUCTURAL ENGINEER ★ VINCENT P. TABOR 081-007047 ★ STATE OF ILLINOIS

Vincent P. Tabor 7/16/2021

Vincent P. Tabor — Date
Licensed Structural Engineer
State of Illinois No. 081-007047
Expires 11/30/2022

GENERAL PLAN AND ELEVATION
IL 109 OVER UNNAMED DITCH
F.A.S. RTE. 747 SEC. (57,58,59) RS-2
JERSEY COUNTY
STATION 70+23.79
S.N. 042-2403

MODEL: Default
FILE NAME: \\CHATHAM1\Win\Jobs\1513-15\Struct\E. Culvert Replacements\4. Final Design\Design Plans\CADD_Sheets\Dow-D876L10-001-GPE.dgn

7/30/2021 6:56:18 AM

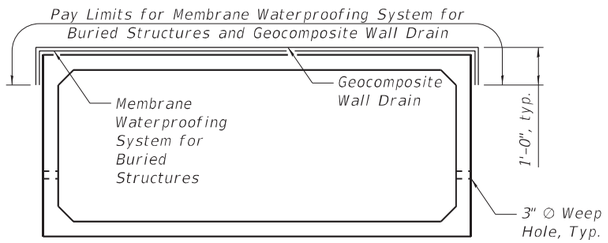
LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME =	LIN06-PC	DESIGNED -	VPT	REVISED	-
		CHECKED -	AML	REVISED	-
PLOT TIME =	6:56:18 AM	DRAWN -	AML	REVISED	-
PLOT DATE =	7/30/2021	CHECKED -	VPT	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

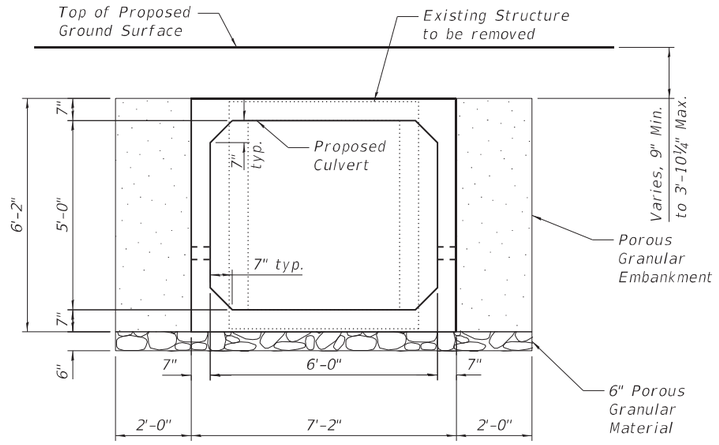
GENERAL PLAN AND ELEVATION
STATION 70+23.79
STRUCTURE NO. 042-2403
SHEET 1 OF 5 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747	(57,58,59) RS-2	JERSEY	60	38
		CONTRACT NO. 76L10		
		ILLINOIS FED. AID PROJECT		



LIMITS OF MEMBRANE WATERPROOFING

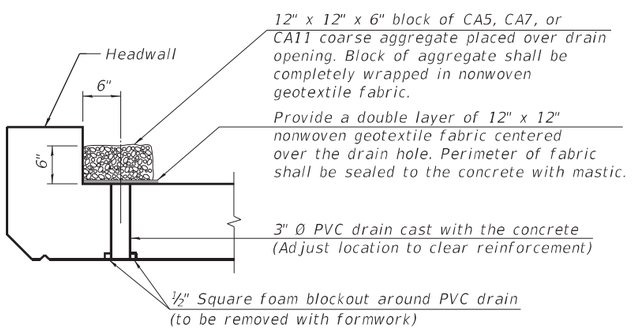
Longitudinal limits of membrane waterproofing for the precast concrete culvert are along the full length between the headwalls.



SECTION THROUGH PRECAST BOX CULVERT

TOTAL BILL OF MATERIAL

ITEM NO.	ITEM	UNIT	TOTAL
20700220	Porous Granular Embankment	Cu. Yd.	73
28100109	Stone Riprap, Class A5	Sq. Yd.	47
28200200	Filter Fabric	Sq. Yd.	47
50100300	Removal of Existing Structures No. 1	Each	1
50102400	Concrete Removal	Cu. Yd.	3
54001001	Box Culvert End Sections, Culvert No. 1	Each	2
54010605	Precast Concrete Box Culverts 6'x5'	Foot	67.0
59100100	Geocomposite Wall Drain	Sq. Yd.	73
X0900064	Membrane Waterproofing System for Buried Structures	Sq. Yd.	73
Z0054517	Rock Fill - Foundation	Ton	20



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.)

GENERAL NOTES

The precast box culvert sections shall conform to the requirements of ASTM C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specifications.

The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard, unless noted otherwise.

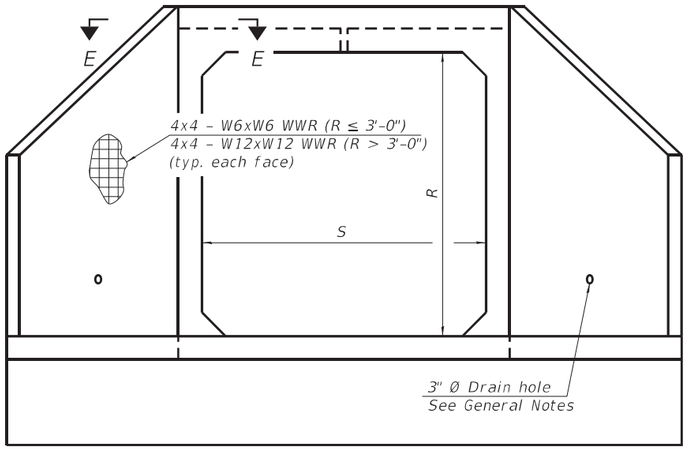
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

See Special Provisions and Roadway and Maintenance of Traffic plans for time restrictions relative to installation of the structure.

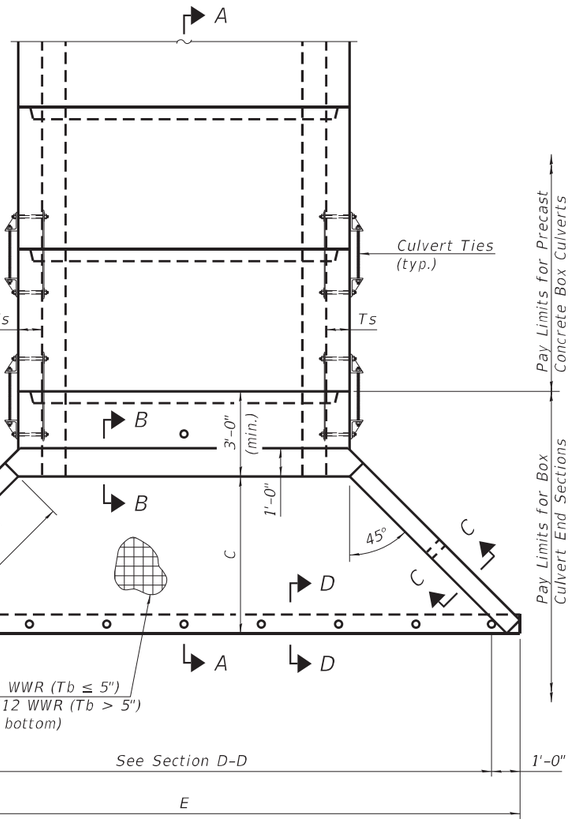
PRECAST BOX CULVERT SCHEDULE (ASTM C1577)

Station	Size (Span x Height)	Skew	Design Fill	
			Min.	Max.
70+23.79	6'-0" x 5'-0"	0°	2'-8½"	3'-10¼"

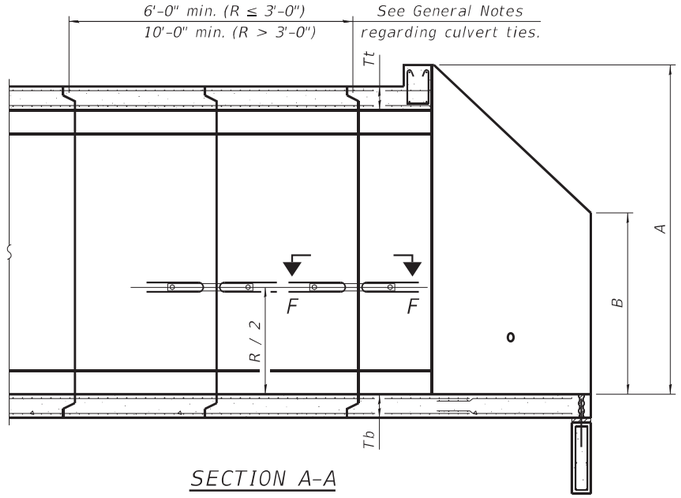
The Design Fill heights shown in the culvert schedule are located between the outside edges of the paved shoulders.



END VIEW



PLAN



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than ½" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10⅝"	4'-1"	10'-4⅝"	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7⅞"	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10⅜"	5'-6"	12'-4⅝"	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7⅞"	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4½"	2'-2½"	2'-11⅜"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8½"	3'-10"	11'-2⅜"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4½"	2'-8½"	3'-11⅜"	5'-7"	13'-8⅛"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8½"	5'-3"	13'-2⅜"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4½"	3'-2½"	4'-11⅜"	7'-0"	15'-8⅛"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8⅝"	6'-8"	15'-2½"	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11⅜"	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7¼"	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11⅜	5'-7"	14'-10⅛"	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7¼"	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11⅜"	7'-0"	16'-10⅛"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9¼"	6'-9"	16'-5⅞"	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11⅜"	8'-5"	18'-10⅛"	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9¼"	8'-2"	18'-5⅞"	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11⅜"	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10⅝"	4'-1"	13'-10⅝"	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11⅜"	5'-7"	16'-0⅛"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10⅜"	5'-6"	15'-10⅜"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11⅜"	7'-0"	18'-0⅛"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10¾"	6'-11"	17'-10¾"	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11⅜"	8'-5"	20'-0⅛"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10¾"	8'-4"	19'-10¾"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11½"	9'-10"	22'-0¼"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10¾"	9'-9"	21'-10¾"	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11⅜"	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11⅜"	5'-7"	17'-2⅛"	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11⅜"	7'-0"	19'-2⅛"	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11⅜"	8'-5"	21'-2⅛"	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11½"	9'-10"	23'-2¼"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11⅜"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11⅜"	5'-7"	18'-2⅛"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11⅜"	7'-0"	20'-2⅛"	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11⅜"	8'-5"	22'-2⅛"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11½"	9'-10"	24'-2¼"	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0¾"	4'-4"	17'-6⅞"	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0¾"	5'-9"	19'-6⅞"	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0¾"	7'-2"	21'-6⅞"	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0⅞"	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0⅛"	9'-11"	25'-5⅜"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1½"	4'-5"	18'-10¼"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1½"	5'-10"	20'-10¼"	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1½"	7'-3"	22'-10⅜"	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1½"	8'-8"	24'-10⅜"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1½"	10'-1"	26'-10⅜"	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2⅞"	4'-7"	20'-3⅛"	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2⅞"	6'-0"	22'-3⅛"	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2¼"	7'-4"	24'-1¾"	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2¼"	8'-9"	26'-1¾"	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2¼"	10'-2"	28'-1⅞"	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3⅜"	4'-8"	21'-6½"	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3⅜"	6'-1"	23'-6½"	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3⅜"	7'-6"	25'-6⅝"	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3⅜"	8'-11"	27'-6⅝"	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3⅜"	10'-4"	29'-6⅝"	17.4	Yes

Note:
Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

SCB-AES 2-17-2017

MODEL: Default
FILE NAME: \\CHATHAM1\Jlnjobs\1513-15Struct\E. Culvert Replacements\4. Final Design\Design Plans\CADD_Sheets\Dow-0876L10-0003-Precast End Section.dgn
7/30/2021 6:56:23 AM

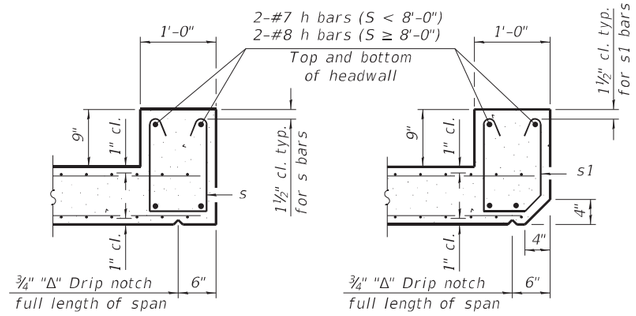
LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME =	LIN06-PC	DESIGNED -	VPT	REVISED -	
		CHECKED -	AML	REVISED -	
PLOT TIME =	6:56:23 AM	DRAWN -	AML	REVISED -	
PLOT DATE =	7/30/2021	CHECKED -	VPT	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

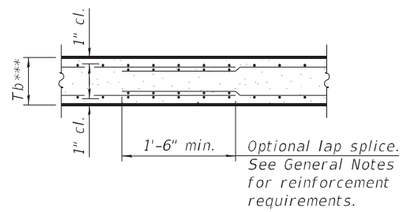
PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS
STATION 70+23.79
STRUCTURE NO. 042-2403
SHEET 3 OF 5 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747	(57,58,59) RS-2	JERSEY	60	40
		CONTRACT NO. 76L10		
		ILLINOIS FED. AID PROJECT		

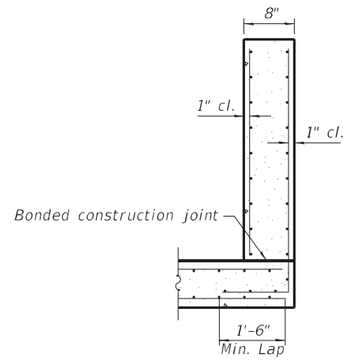


SECTION B-B
(Top slab at downstream end)

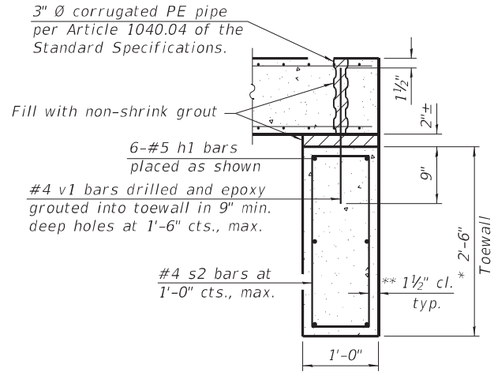
SECTION B-B
(Top slab at upstream end)



SECTION B-B
(Bottom Slab)

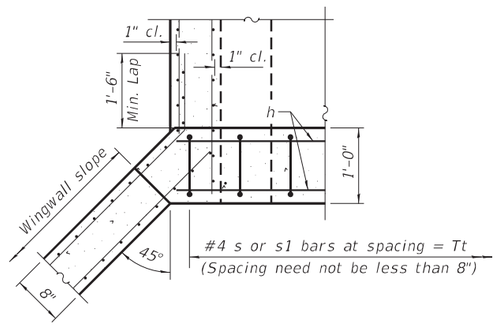


SECTION C-C

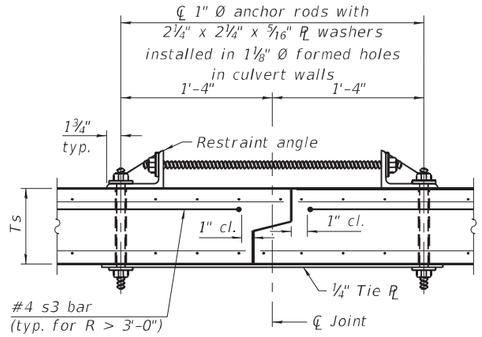


SECTION D-D

*** This dimension shall be increased by 2" for CIP construction.



SECTION E-E



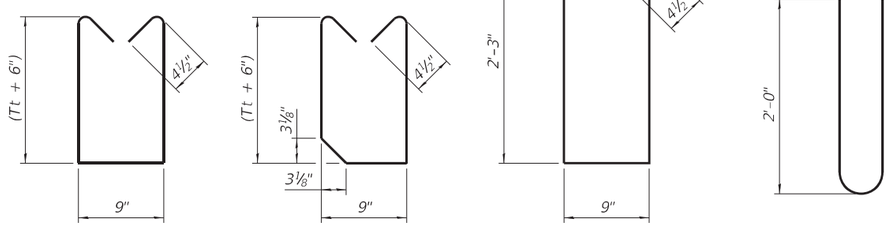
SECTION F-F
(Showing culvert tie details)

TOEWALL CONSTRUCTION SEQUENCE

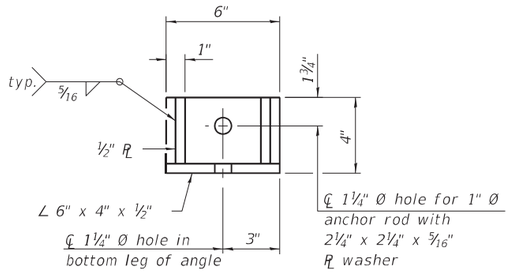
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

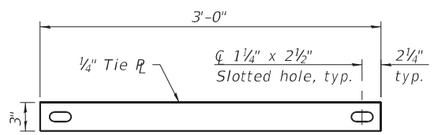
** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



BAR s | BAR s1 | BAR s2 | BAR s3



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL

Notes:

1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2¼"x2¼"x5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional ½ turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

SCB-AES 2-17-2017

MODEL: Default
FILE NAME: \\CHATHAM1\linjobs\1513-15\StructE. Culvert Replacements\4. Final Design\Design Plans\CADD_Sheets\Dow-D8761L10-0004-Precast End Section.dgn
7/30/2021 6:56:25 AM

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME =	LIN06-PC	DESIGNED -	VPT	REVISED -	
		CHECKED -	AML	REVISED -	
PLOT TIME =	6:56:25 AM	DRAWN -	AML	REVISED -	
PLOT DATE =	7/30/2021	CHECKED -	VPT	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS
STATION 70+23.79
STRUCTURE NO. 042-2403
SHEET 4 OF 5 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747	(57,58,59) RS-2	JERSEY	60	41
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 3/9/01

ROUTE FAS 747 DESCRIPTION IL 109 over Tributary to Little Piasa Creek, 1 mi South of McClusky LOGGED BY Larry Ford

SECTION (57,58,59)RS-1 LOCATION SW 1/4, SEC. 21, TWP. 7N, RNG. 11W, 3rd PM, Latitude , Longitude

COUNTY Jersey DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140# Automatic

STRUCT. NO.
Station

BORING NO. #1 SB Lane
Station 134+28
Offset 7.0 ft Rt
Ground Surface Elev. 611.68 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion 587.7 ft ▽
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt and Concrete Pavement				
609.68				
Brown Silt LOAM (fill)				
	-5	5		
		4	1.6	
		4	S/10	20
604.68				
		1		
Brown Silty Clay LOAM (fill)		2	0.4	
		3	S/10	25
	-10	2		
		2	0.6	
		2	S/15	25
600.18				
Brown Silty CLAY (fill)		2		
		3	1.0	
		4	S/15	20
	-15	2		
		4	1.0	
		4	S/15	19
		2		
		4	1.3	
		5	S/15	23
592.68				
Brown and Gray Silty CLAY	-20	3		
Brown and Gray Silty CLAY (continued)		4	1.7	
		6	S/15	21
589.68				
Gray Silty CLAY (organics)		0		
		0	0.7	
		2	S/15	24
587.68				
Gray & Brown Weathered SHALE with weathered LIMESTONE gravel	-25	7		
		14	1.6	
		14	S/10	16
585.18				
Red and Brown SHALE		13		
583.68		37	2.7	
		50	S/5	17
Gray LIMESTONE (hard drilling) 582.68				
End of Boring	-30			
End of Boring				
	-35			
	-40			

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)

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 7/9/01

ROUTE FAS 747 DESCRIPTION IL 109 over Tributary to Little Piasa Creek, 1 mi South of McClusky LOGGED BY Larry Ford

SECTION (57,58,59)RS-1 LOCATION SW 1/4, SEC. 21, TWP. 7N, RNG. 11W, 3rd PM, Latitude , Longitude

COUNTY Jersey DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO.
Station

BORING NO. #2
Station 134+24
Offset 54.5 ft RT CL
Ground Surface Elev. 589.48 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion 588.5 ft ▽
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown and Gray SILTY SAND			NC	
587.98				
Brown and Gray SILTY CLAY			NC	25
586.48			1.5	
Brown and Gray CLAY LOAM			3.0	22
585.48				
			2.5	23
Refusal at GRAVEL and Glacial TILL	-5			
End of Hand Auger				
Due to inaccessability or buried utilites, Hand Augers were used. End of Boring	-10			
	-15			
	-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)

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 7/9/01

ROUTE FAS 747 DESCRIPTION IL 109 over Tributary to Little Piasa Creek, 1 mi South of McClusky LOGGED BY Larry Ford

SECTION (57,58,59)RS-1 LOCATION SW 1/4, SEC. 21, TWP. 7N, RNG. 11W, 3rd PM, Latitude , Longitude

COUNTY Jersey DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO.
Station

BORING NO. #3
Station 133+80
Offset 73.0 ft LT CL
Ground Surface Elev. 592.72 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion 591.7 ft ▽
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray SILTY CLAY			1.0	23
591.72				
Gray SANDY LOAM			NC	26
590.72				
Gray SILTY CLAY			1.0	26
589.72				
Brown and Gray CLAY LOAM with SAND and GRAVEL				18
589.22			NC	20
Glacial TILL CLAY LOAM			2.5	
587.72	-5		3.5	18
Refusal at LIMESTONE				
End of Hand Auger				
Due to inaccessability or buried utilities, Hand Augers were used. End of Boring	-10			
	-15			
	-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)

The boring logs represent point information. Presentation of this information in no way implies that subsurface conditions are the same at locations other than the exact location of the boring.

MODEL: Default
FILE NAME: \\CHATHAM1\linjobs\1513-15\StructE. Culvert Replacements\4. Final Design\Design Plans\CADD_Sheets\Dow-D876L10-005-Boring Logs.dgn
7/30/2021 6:56:27 AM

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME = LIN06-PC	DESIGNED - VPT	REVISED -	
	CHECKED - AML	REVISED -	
PLOT TIME = 6:56:27 AM	DRAWN - AML	REVISED -	
PLOT DATE = 7/30/2021	CHECKED - VPT	REVISED -	

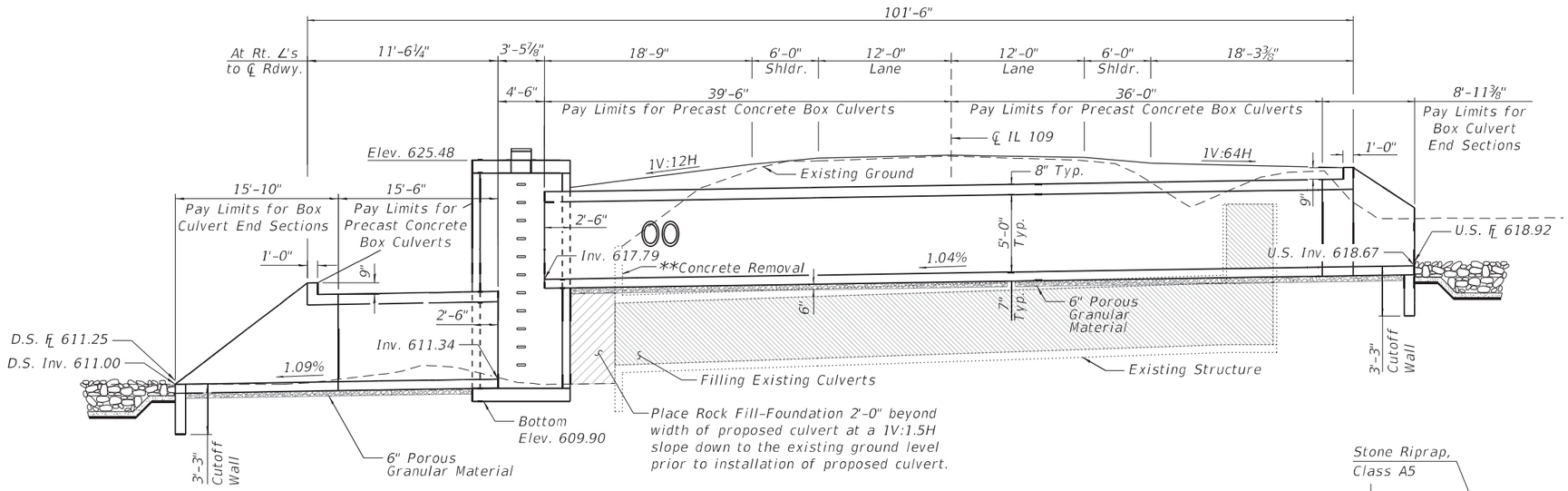
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STATION 70+23.79
STRUCTURE NO. 042-2403
SHEET 5 OF 5 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747	(57,58,59) RS-2	JERSEY	60	42
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			

Benchmark: BM 109-7, Cut "□" on the center top of the N. headwall over a 12" CMP culvert located on the W. side of IL 109, approx. 720' North of Hagen Road, approx. 4.65 miles North of IL Rte. 3; Elev. 623.17.

Existing Structure: The existing 4'-0" x 4'-0" reinforced concrete box culvert was built at an unknown date and extended in 1922. Existing structure is a single cell box culvert with a 5'-0" overall width and a 5'-0" overall height that is 59'-7" long at Rt. L's to ℄ roadway, 73'-5" along ℄ of structure. The existing culvert will be filled and remain in place, with the exception of portions interfering with the proposed structure, which will be removed. Roadway will be closed and traffic detoured during construction.
No Salvage.

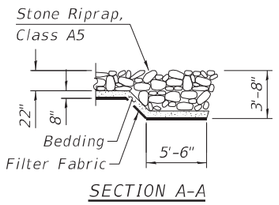


LONGITUDINAL SECTION

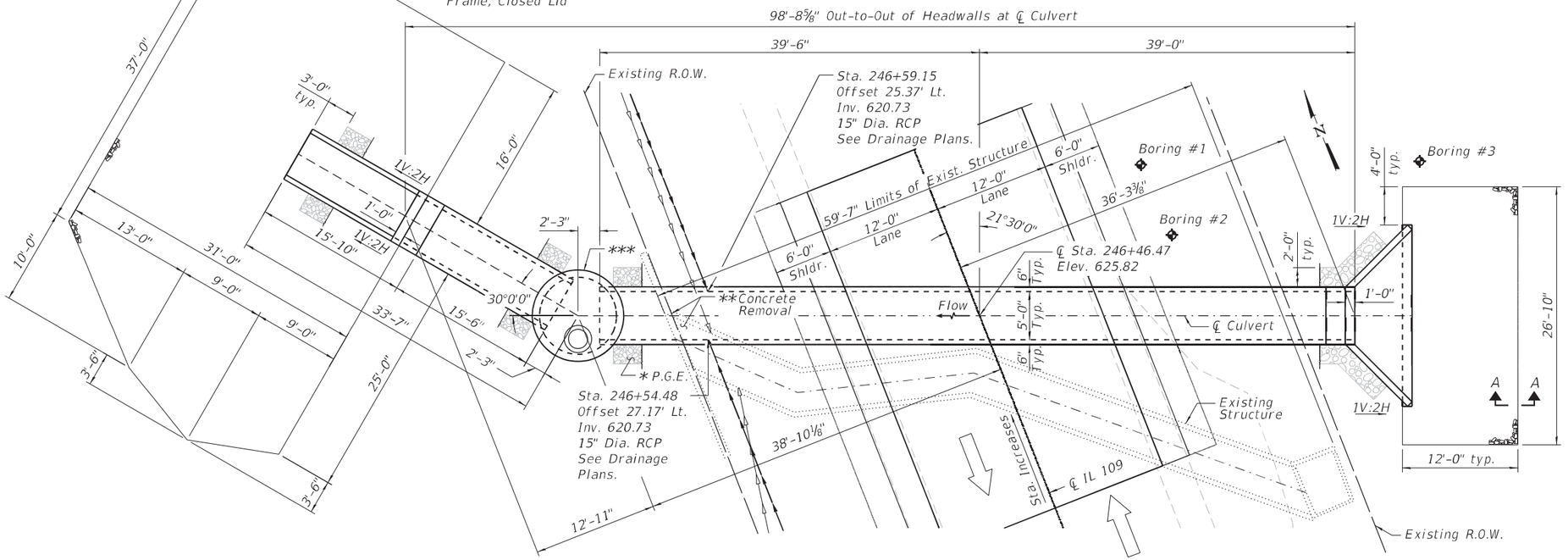
(Dimensions along ℄ Culvert, unless noted otherwise)

** Remove existing structure to at least 1 ft. below bottom of Porous Granular Material in accordance with Section 501 of the Standard Specifications. Paid for as Concrete Removal.

*** Manholes, Type A, 8'-Diameter, Type 1 Frame, Closed Lid



SECTION A-A



PLAN

* 2'-0" width of P.G.E. to be installed full length of proposed culvert, to 3'-0" from the end of the proposed wingwalls. Adjacent to culvert, vertical limits are from bottom of bottom slab to top of top slab. Along wingwalls, vertical limits are from bottom of culvert bottom slab to 1'-0" below top of wingwall. P.G.E. shall be capped with a 12" thick layer of impervious material. Cost of impervious material shall be included in the cost of Porous Granular Embankment.

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

LOADING HL-93

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

DESIGN STRESSES

PRECAST UNITS (New Construction)
f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Reinforcement)

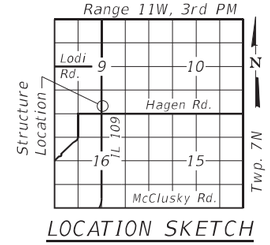
FIELD UNITS (New Construction)
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

INDEX OF SHEETS

LICENSED STRUCTURAL ENGINEER
VINCENT P. TABOR
081-007047
STATE OF ILLINOIS

Vincent P. Tabor 7/16/2021

Vincent P. Tabor — Date
Licensed Structural Engineer
State of Illinois No. 081-007047
Expires 11/30/2022



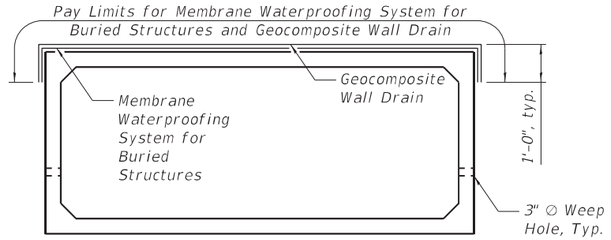
LOCATION SKETCH

GENERAL PLAN AND ELEVATION
IL 109 OVER UNNAMED DITCH
F.A.S. RTE. 747 SEC. (57,58,59) RS-2
JERSEY COUNTY
STATION 246+46.47

LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME = LIN06-PC	DESIGNED - VPT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN AND ELEVATION STATION 246+46.47
		CHECKED - AML	REVISED -		SHEET 1 OF 7 SHEETS
	PLOT TIME = 6:56:31 AM	DRAWN - AML	REVISED -		
	PLOT DATE = 7/30/2021	CHECKED - VPT	REVISED -		

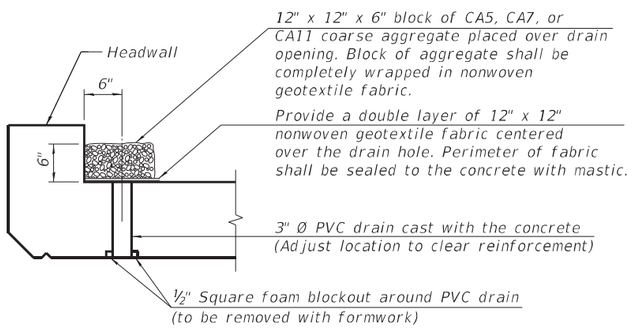
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747	(57,58,59) RS-2	JERSEY	60	43
		CONTRACT NO. 76L10		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE NAME: \\CHATHAM1\linjobs\1513-15\StructE. Culvert Replacements\4. Final Design\Design Plans\CADD_Sheets\Hagen-D876L10-001-GPE.dgn
7/30/2021 6:56:31 AM



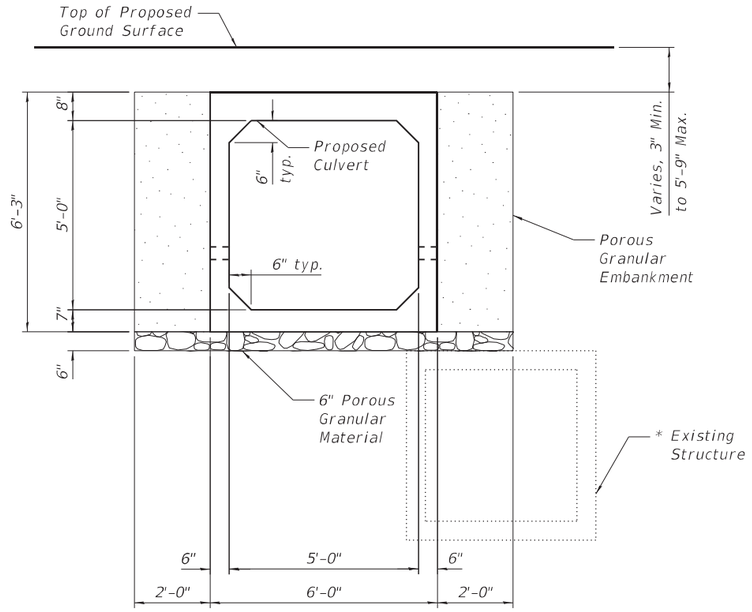
LIMITS OF MEMBRANE WATERPROOFING

Longitudinal limits of membrane waterproofing for the precast concrete culvert are between the east side of the manhole and the east headwall.



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.)



SECTION THROUGH PRECAST BOX CULVERT

TOTAL BILL OF MATERIAL

ITEM NO.	ITEM	UNIT	TOTAL
20700220	Porous Granular Embankment	Cu. Yd.	95
28100109	Stone Riprap, Class A5	Sq. Yd.	207
28200200	Filter Fabric	Sq. Yd.	207
50102400	Concrete Removal	Cu. Yd.	2
54001002	Box Culvert End Sections, Culvert No. 2	Each	2
54300505	Precast Concrete Box Culverts 5'x5'	Foot	91.0
59100100	Geocomposite Wall Drain	Sq. Yd.	68
60224459	Manholes, Type A, 8'-Diameter, Type 1 Frame, Closed Lid	Each	1
X0900064	Membrane Waterproofing System for Buried Structures	Sq. Yd.	68
Z0023500	Filling Existing Culverts	Cu. Yd.	49
Z0054517	Rock Fill - Foundation	Ton	39

* Existing Structure to remain in place and be filled with a flowable fill. Paid for as Filling Existing Culverts. Where interference between the existing and proposed structures occurs, remove existing structure to at least 1 ft. below bottom of Porous Granular Material in accordance with Section 501 of the Standard Specifications. Paid for as Concrete Removal.

GENERAL NOTES

The precast box culvert sections shall conform to the requirements of ASTM C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specifications.

The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard, unless noted otherwise.

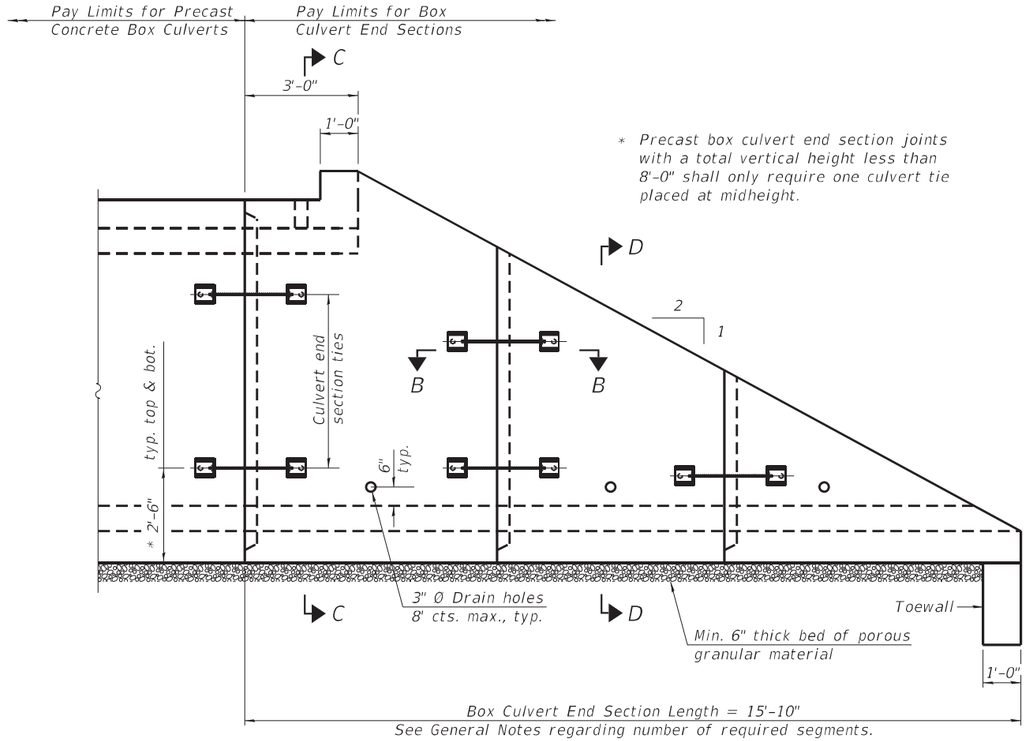
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

See Special Provisions and Roadway and Maintenance of Traffic plans for time restrictions relative to installation of the structure.

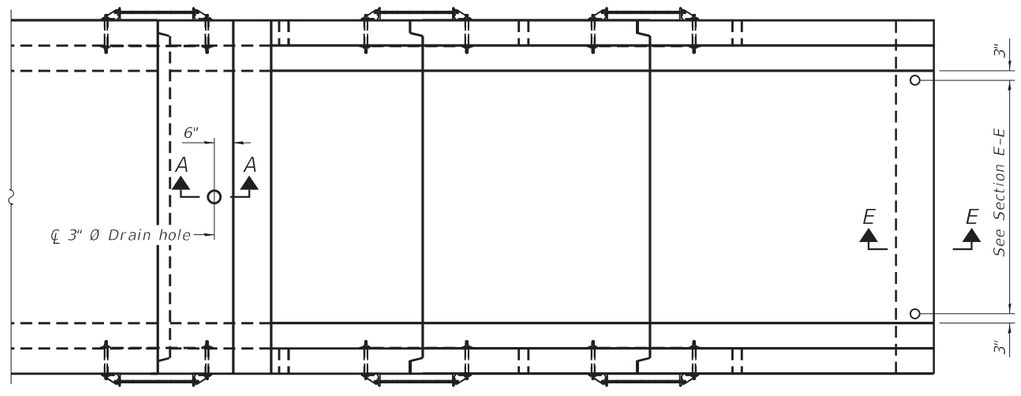
PRECAST BOX CULVERT SCHEDULE (ASTM C1577)

Station	Size (Span x Height)	Skew	Design Fill	
			Min.	Max.
246+46.47	5'-0" x 5'-0"	21.5°	1'-5"	1'-11½"

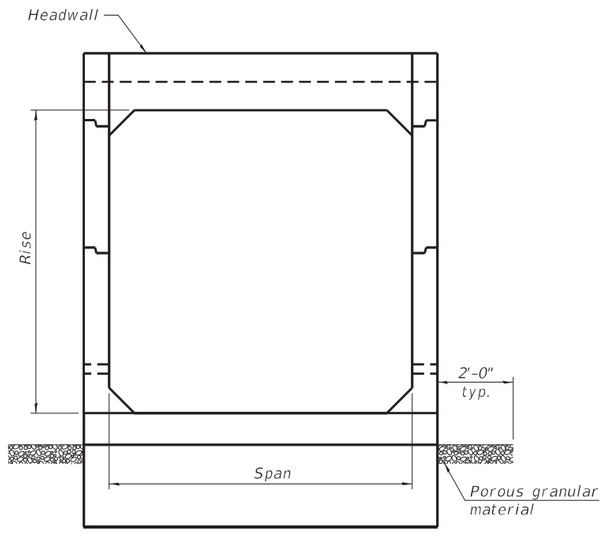
The Design Fill heights shown in the culvert schedule are located between the outside edges of the paved shoulders.



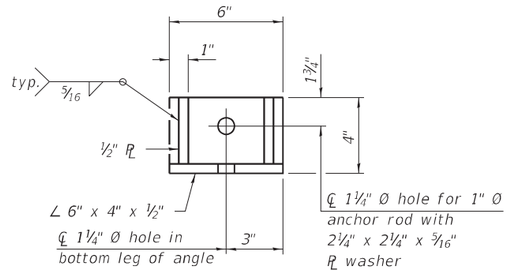
ELEVATION



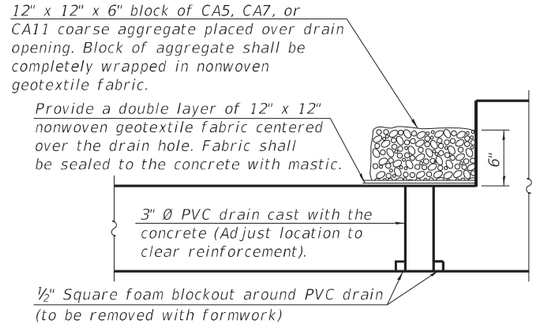
PLAN



END VIEW



RESTRAINT ANGLE DETAIL



SECTION A-A

(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.)

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. This work will be measured for payment as each, with each end of each culvert being one each. End sections will be paid for at the contract unit price per each for Box Culvert End Sections of the culvert number specified.

Typical box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements of ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Number of segments shown in Elevation is for example only. Length and number of precast box sections required to construct Box Culvert End Sections shall be determined by the Contractor.

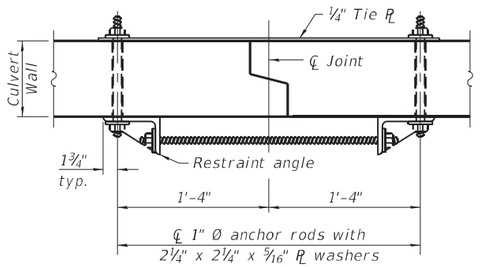
1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2¼" x 2¼" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional ½ turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the contract unit price for Box Culvert End Sections of the culvert number specified.

Drain holes shall conform to the requirements of Article 503.11 of the Standard Specifications unless noted otherwise.

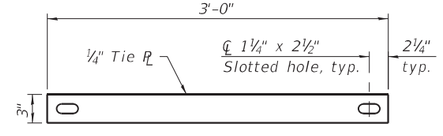
Nonwoven geotextile fabric shall conform to the requirements of Article 1080.01. The minimum weight of the fabric shall be 6 oz. / sq. yd..

For end sections with traversable pipe grate systems, see grate detail sheet for required modifications.



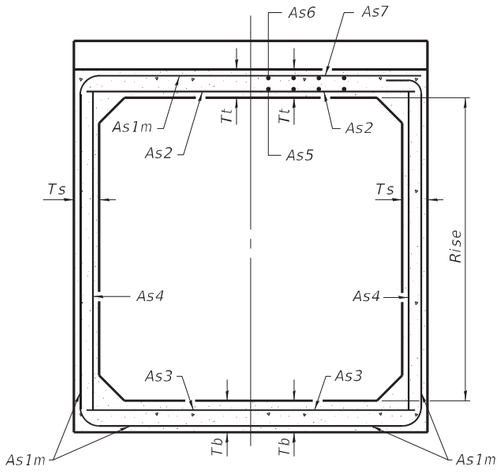
SECTION B-B

(Showing end section tie details)



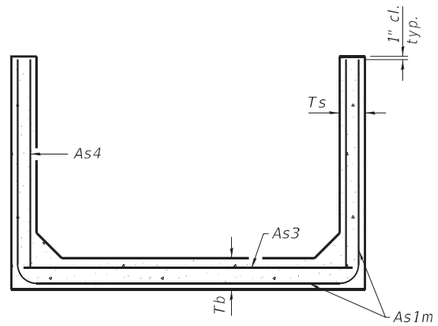
TIE PLATE DETAIL

(Sheet 1 of 2)

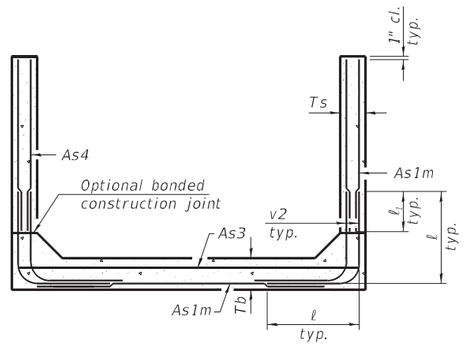


(Design Earth Cover ≥ 2 ft) (Design Earth Cover < 2 ft)

SECTION C-C



SECTION D-D



ALTERNATE SECTION D-D

As1m REINFORCEMENT

(in.²/ ft)

Ts (in.) \ Rise (ft)	2	3	4	5	6	7	8	9	10	11	12
4	0.19	0.17									
5	0.26	0.21	0.18								
6	0.22	0.26	0.23	0.22							
7	0.25	0.33	0.59	0.27	0.28						
8	0.40	0.35	0.43	0.39	0.36	0.34	0.40				
9	0.44	0.39	0.35	0.43	0.40	0.37	0.36	0.48			
10	0.48	0.42	0.38	0.47	0.44	0.41	0.38	0.42	0.56		
11	0.52	0.45	0.54	0.50	0.46	0.44	0.41	0.46	0.50	0.65	
12	0.55	0.49	0.58	0.54	0.50	0.48	0.45	0.46	0.46	0.61	0.75

(As1m reinforcement based upon welded wire reinforcement conforming to AASHTO M 55 or M 221).

ℓ_1 DIMENSION

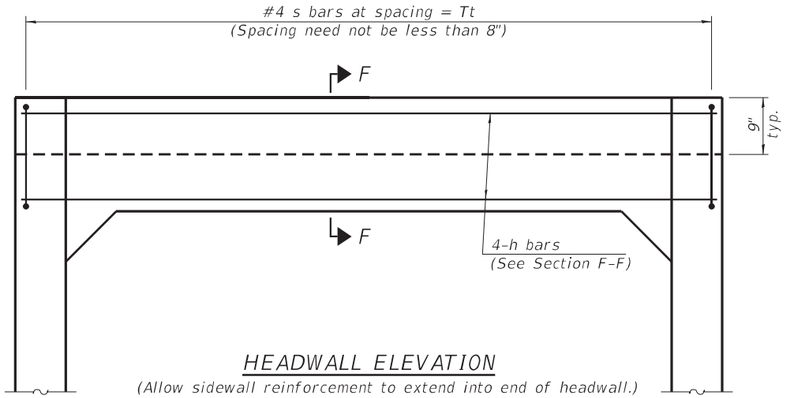
#3 bar = 2'-0"
#4 bar = 2'-8"
#5 bar = 3'-4"
#6 bar = 3'-11"

Notes:

Alternate Section D-D is provided to allow the Contractor the option of casting the bottom slab of the end section first followed by construction of the sidewalls using conventional forming methods. Shop drawings that detail slab thickness and reinforcement layout shall be submitted to the Engineer for review and approval when using Alternate Section D-D.

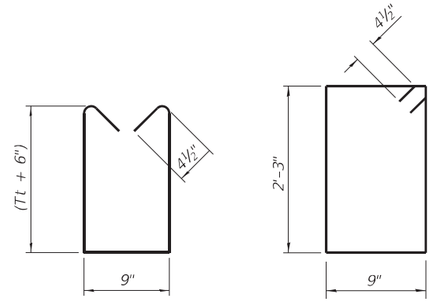
The size and spacing of the v2 bars shall provide a minimum reinforcement area along each face of the walls (in.²/ft.) equal to 1.10*(As1m). v2 bars may consist of #3 thru #6 size reinforcement bars and the longitudinal spacing shall not exceed the lesser of the wall thickness or 8 inches.

Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.



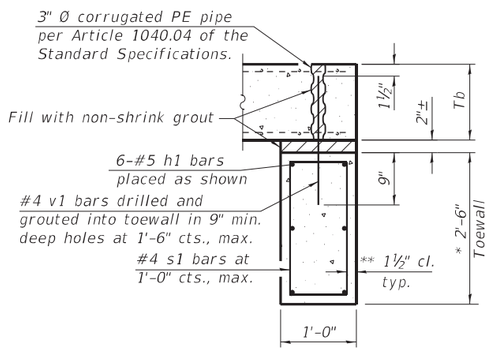
HEADWALL ELEVATION

(Allow sidewall reinforcement to extend into end of headwall.)



BAR s

BAR s1



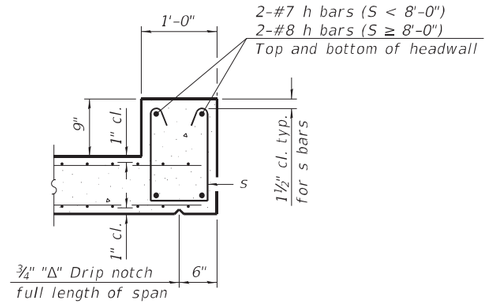
SECTION E-E

TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill according to the applicable paragraphs of Article 502.10 of the Standard Specifications and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling the method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



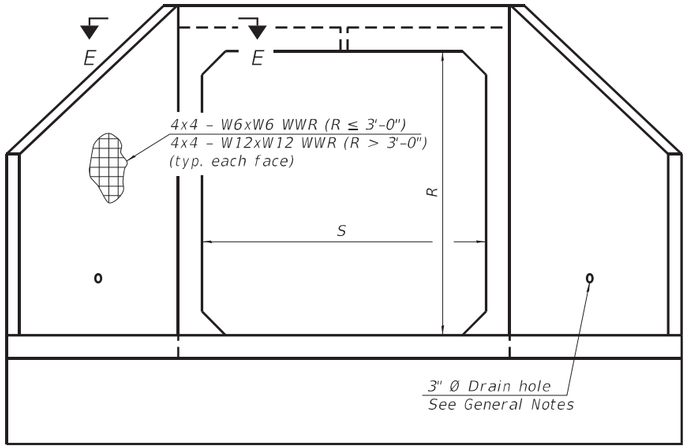
SECTION F-F

SCB-TES 2-17-2017

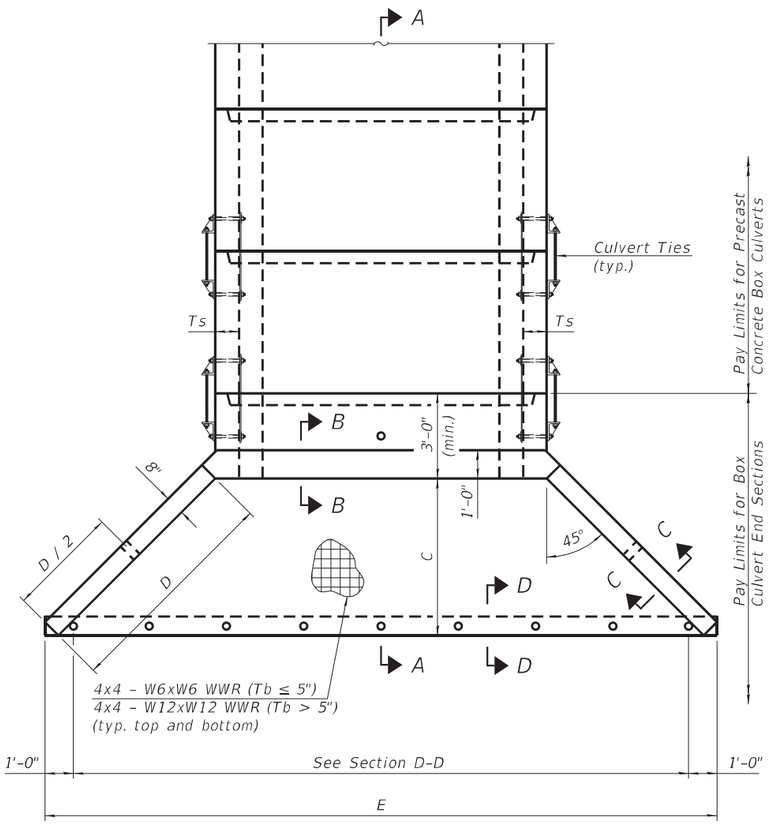
LIN ENGINEERING, LTD. Consulting Engineers Springfield, Illinois	USER NAME = LIN06-PC	DESIGNED - VPT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SINGLE CELL PRECAST BOX CULVERT TAPERED END SECTIONS STATION 246+46.47
		CHECKED - AML	REVISED -		SHEET 4 OF 7 SHEETS
	PLOT TIME = 6:56:36 AM	DRAWN - AML	REVISED -		
	PLOT DATE = 7/30/2021	CHECKED - VPT	REVISED -		

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747	(57,58,59) RS-2	JERSEY	60	46
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			

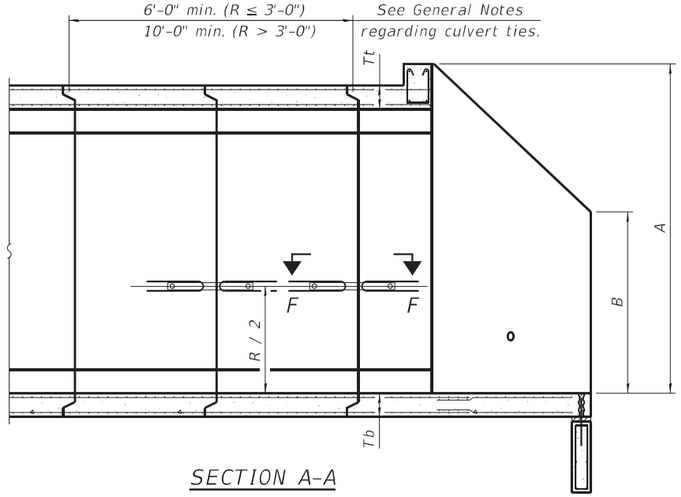
MODEL: Default
FILE NAME: \\CHATHAM1\Irjobs\1513-15\Struct\E. Culvert Replacements\4. Final Design\Design Plans\CADD_Sheets\Hagen-D876L10-004-Precast Tapered End Section.dgn
7/30/2021 6:56:36 AM



END VIEW



PLAN



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than ½" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10⅝"	4'-1"	10'-4⅝"	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7⅞"	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10⅜"	5'-6"	12'-4⅝"	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7⅞"	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4½"	2'-2½"	2'-11⅜"	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8½"	3'-10"	11'-2⅜"	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4½"	2'-8½"	3'-11⅜"	5'-7"	13'-8⅛"	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8½"	5'-3"	13'-2⅜"	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4½"	3'-2½"	4'-11⅜"	7'-0"	15'-8⅛"	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8⅝"	6'-8"	15'-2½"	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11⅜"	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7¼"	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11⅜	5'-7"	14'-10⅛"	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7¼"	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11⅜"	7'-0"	16'-10⅛"	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9¼"	6'-9"	16'-5⅞"	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11⅜"	8'-5"	18'-10⅛"	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9¼"	8'-2"	18'-5⅞"	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11⅜"	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10⅝"	4'-1"	13'-10⅝"	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11⅜"	5'-7"	16'-0⅛"	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10⅜"	5'-6"	15'-10⅜"	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11⅜"	7'-0"	18'-0⅛"	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10¾"	6'-11"	17'-10¾"	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11⅜"	8'-5"	20'-0⅛"	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10¾"	8'-4"	19'-10¾"	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11½"	9'-10"	22'-0¼"	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10¾"	9'-9"	21'-10¾"	9.3	Yes
7'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11⅜"	4'-2"	15'-2"	4.9	Yes
7'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11⅜"	5'-7"	17'-2⅛"	6.1	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11⅜"	7'-0"	19'-2⅛"	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11⅜"	8'-5"	21'-2⅛"	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11½"	9'-10"	23'-2¼"	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11⅜"	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11⅜"	5'-7"	18'-2⅛"	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11⅜"	7'-0"	20'-2⅛"	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11⅜"	8'-5"	22'-2⅛"	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11½"	9'-10"	24'-2¼"	11.0	Yes
9'-0"	2'-0"	9"	9"	9"	3'-6"	2'-3"	3'-0¾"	4'-4"	17'-6⅞"	6.2	Yes
9'-0"	3'-0"	9"	9"	9"	4'-6"	2'-9"	4'-0¾"	5'-9"	19'-6⅞"	7.5	Yes
9'-0"	4'-0"	9"	9"	9"	5'-6"	3'-3"	5'-0¾"	7'-2"	21'-6⅞"	9.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0⅞"	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0⅛"	9'-11"	25'-5⅜"	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1½"	4'-5"	18'-10¼"	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1½"	5'-10"	20'-10¼"	8.6	No
10'-0"	4'-0"	10"	10"	10"	5'-7"	3'-4"	5'-1½"	7'-3"	22'-10⅜"	10.2	Yes
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1½"	8'-8"	24'-10⅜"	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1½"	10'-1"	26'-10⅜"	13.9	Yes
11'-0"	2'-0"	11"	11"	11"	3'-8"	2'-4"	3'-2⅞"	4'-7"	20'-3⅛"	8.2	No
11'-0"	3'-0"	11"	11"	11"	4'-8"	2'-10"	4'-2⅞"	6'-0"	22'-3⅛"	9.8	No
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2¼"	7'-4"	24'-1¾"	11.5	Yes
11'-0"	5'-0"	11"	11"	11"	6'-8"	3'-10"	6'-2¼"	8'-9"	26'-1¾"	13.3	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2¼"	10'-2"	28'-1⅞"	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3⅜"	4'-8"	21'-6½"	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3⅜"	6'-1"	23'-6½"	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3⅜"	7'-6"	25'-6⅝"	13.0	Yes
12'-0"	5'-0"	12"	12"	12"	6'-9"	3'-11"	6'-3⅜"	8'-11"	27'-6⅝"	14.1	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3⅜"	10'-4"	29'-6⅝"	17.4	Yes

Note:
Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

SCB-AES 2-17-2017

MODEL: Default
FILE NAME: \\CHATHAM1\Jlnjobs\1513-15Struct\E. Culvert Replacements\4. Final Design\Design Plans\CADD_Sheets\Hagen-D876L10-005-Precast Apron End Section.dgn
7/30/2021 6:56:37 AM

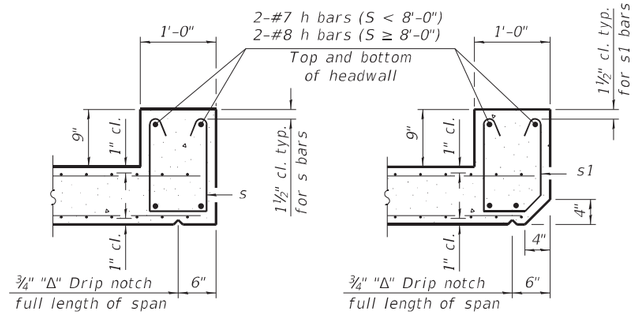
LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME =	LIN06-PC	DESIGNED -	VPT	REVISED -	
		CHECKED -	AML	REVISED -	
PLOT TIME =	6:56:37 AM	DRAWN -	AML	REVISED -	
PLOT DATE =	7/30/2021	CHECKED -	VPT	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

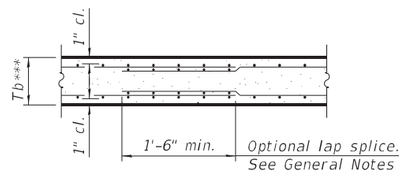
PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS
STATION 246+46.47
SHEET 5 OF 7 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747	(57,58,59) RS-2	JERSEY	60	47
		CONTRACT NO. 76L10		
		ILLINOIS FED. AID PROJECT		

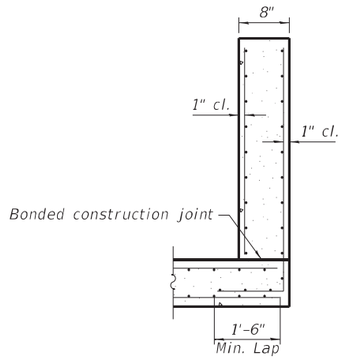


SECTION B-B
(Top slab at downstream end)

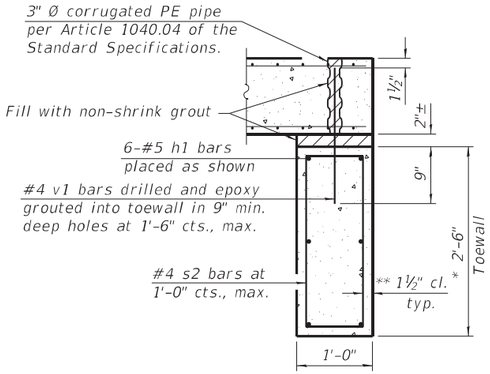
SECTION B-B
(Top slab at upstream end)



SECTION B-B
(Bottom Slab)

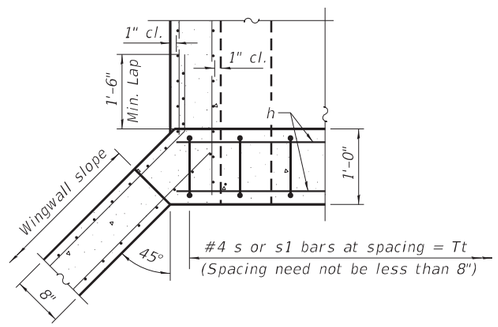


SECTION C-C

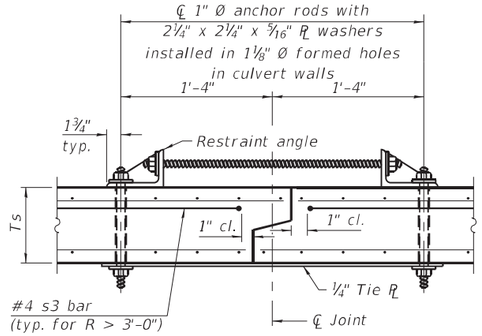


SECTION D-D

*** This dimension shall be increased by 2" for CIP construction.



SECTION E-E



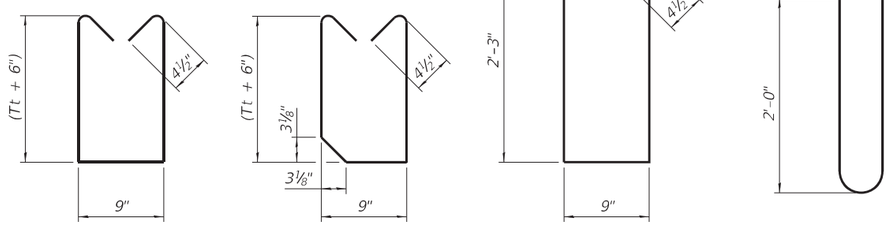
SECTION F-F
(Showing culvert tie details)

TOEWALL CONSTRUCTION SEQUENCE

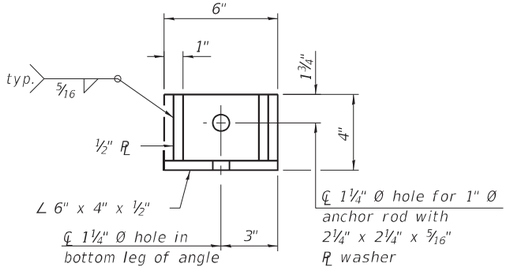
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

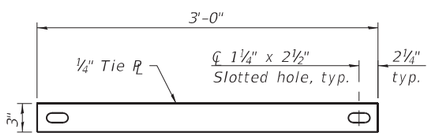
** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.



BAR s | BAR s1 | BAR s2 | BAR s3



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL

Notes:
1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2¼"x2¼"x5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional ½ turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

SCB-AES 2-17-2017

MODEL: Default
FILE NAME: \\CHATHAM1\lin\jobs\1513-15\Struct\E. Culvert Replacements\4. Final Design\Design Plans\CADD_Sheets\Hagen-D876L10-006-Precast Apron End Section.dgn
7/30/2021 6:56:39 AM

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME =	LIN06-PC	DESIGNED -	VPT	REVISED	-
		CHECKED -	AML	REVISED	-
PLOT TIME =	6:56:39 AM	DRAWN -	AML	REVISED	-
PLOT DATE =	7/30/2021	CHECKED -	VPT	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS
STATION 246+46.47
SHEET 6 OF 7 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747	(57,58,59) RS-2	JERSEY	60	48
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 4/9/19

ROUTE FAS 747 DESCRIPTION IL 109 LOGGED BY VPG

SECTION (57,58,59)RS-2 LOCATION SW 1/4, SEC. 21, TWP. 7N, RNG. 11W, 3rd PM,
Latitude , Longitude

COUNTY Jersey DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. N/A
Station N/A

BORING NO. #1
Station
Offset 17.5 ft EOP
Ground Surface Elev. 100+00 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 99.5 ft ▼
Upon Completion ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Loamy Soil	▼		0.5	29
			0.5	32
	98.00			
Gray Clay w/ Sand			1.5	28
	96.50		0.8	35
Black Clay w/ Sand			0.5	41
	-5		0.5	28
			0.5	25
			1.0	29
			0.8	24
	90.00 -10		1.0	19
Brown Clay w/ Soil			3.0	27
			3.5	20
	87.00		3.0	17
End of Hand Auger- too hard to retrieve sample Pocket Penetrometers Used for Strength Testing End of Boring	-15			
	-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)

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 4/9/19

ROUTE FAS 747 DESCRIPTION IL 109 LOGGED BY VPG

SECTION (57,58,59)RS-2 LOCATION SW 1/4, SEC. 21, TWP. 7N, RNG. 11W, 3rd PM,
Latitude , Longitude

COUNTY Jersey DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. N/A
Station N/A

BORING NO. #2
Station
Offset 20.0 ft EOP
Ground Surface Elev. 100+00 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 92.5 ft ▼
Upon Completion ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Clay Soil			1.5	32
			2.0	24
			2.0	27
			1.5	29
			0.8	27
	-5		2.0	27
	93.00		1.5	27
Gray Clay Soil w/Sand	▼		2.0	25
			2.5	21
	90.00 -10		2.5	17
Brown Clay w/Sand			2.5	16
			2.5	15
	86.00		2.5	16
			2.5	17
End of Hand Auger- No penetration hard Pocket Penetrometers Used for Strength Testing End of Boring	-15			
	-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)

Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 4/10/19

ROUTE FAS 747 DESCRIPTION IL 109 LOGGED BY VPG

SECTION (57,58,59)RS-2 LOCATION SW 1/4, SEC. 21, TWP. 7N, RNG. 11W, 3rd PM,
Latitude , Longitude

COUNTY Jersey DRILLING METHOD Hand Auger HAMMER TYPE

STRUCT. NO. N/A
Station N/A

BORING NO. #3
Station
Offset 60.0 ft EOP
Ground Surface Elev. 100+00 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
First Encounter 97.5 ft ▼
Upon Completion ft
After Hrs. ft

	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Brown Clayey Soil w/ Rocks			1.0	38
	99.00		0.8	42
Brown Clayey Soil w/ Sand	▼		0.3	36
			0.3	42
	96.00		2.5	23
Brown Clay w/Sand (very hard at 6")	-5		3.0	24
			3.0	26
			3.0	27
	91.00		3.3	27
Black Clay Soil w/ Sand	-10		3.3	27
			3.5	27
	88.00		3.5	29
Gray Clay w/Sand			3.5	27
	86.50			
End of Hand Auger Pocket Penetrometers Used for Strength Testing End of Boring	-15			
	-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)

The boring logs represent point information. Presentation of this information in no way implies that subsurface conditions are the same at locations other than the exact location of the boring.

MODEL: Default
FILE NAME: \\CHATHAM1\Jobs\1513-15\Struct\E. Culvert Replacements\4. Final Design\Design Plans\CADD_Sheets\Hagen-D876L10-007-Boring Logs.dgn
7/30/2021 6:56:40 AM

LIN ENGINEERING, LTD.
Consulting Engineers
Springfield, Illinois

USER NAME = LIN06-PC	DESIGNED - VPT	REVISED -	
	CHECKED - AML	REVISED -	
PLOT TIME = 6:56:40 AM	DRAWN - AML	REVISED -	
PLOT DATE = 7/30/2021	CHECKED - VPT	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STATION 246+46.47
SHEET 7 OF 7 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
747	(57,58,59) RS-2	JERSEY	60	49
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			

LEGEND

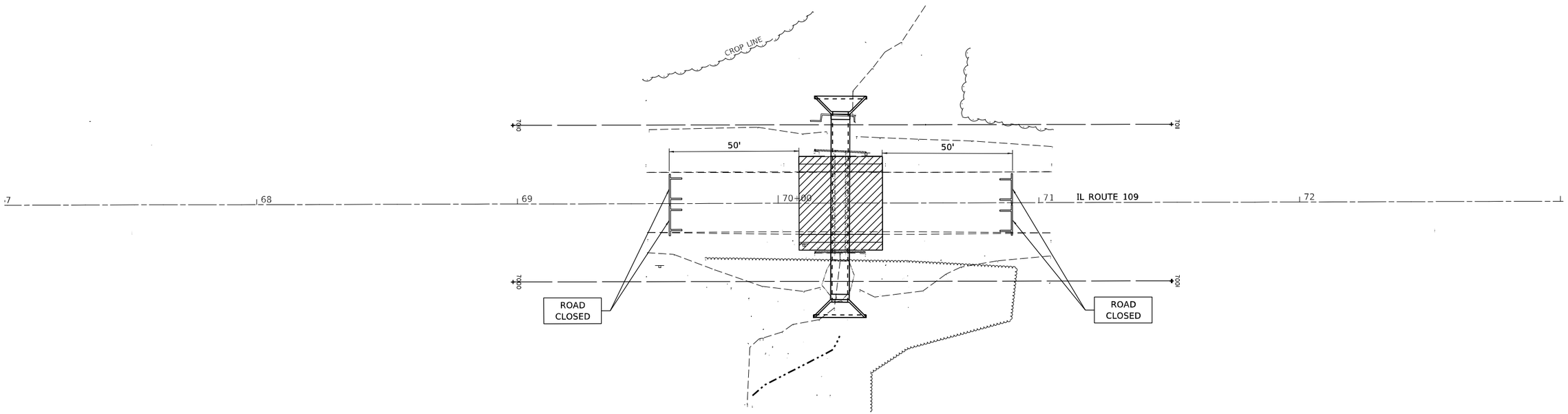
WORK ZONE

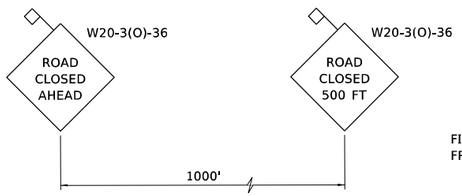
TYPE III BARRICADE

SIGN WITH 18x18 (450x450) MIN.
ORANGE FLAG ATTACHED

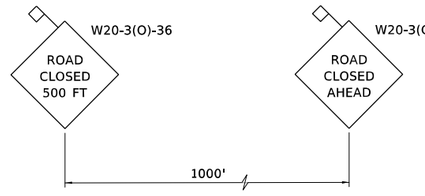
N

0 20 40 60
SCALE IN FEET





FIRST SIGN LOCATED APPROXIMATELY 500'
FROM DOUBLE TYPE III BARRICADES



FIRST SIGN LOCATED APPROXIMATELY 500'
FROM DOUBLE TYPE III BARRICADES

* FAS ROUTE 747, FAU ROUTE 8813 (IL ROUTE 109)

MODEL: $MODELNAMES
FILE NAME: P:\Projects\63400 - PTB 176-19 D8 Var Ph I and II\63416 - WO 15 IL 109 Culverts\CAD\CAD Sheets\076L10-sht-staging.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 7/30/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH OF DOW ROAD - ROAD CLOSURE DETAIL
IL ROUTE 109 CULVERT REPLACEMENT

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
"	(57,58,59) RS-2	JERSEY	60	50
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		

LEGEND

WORK ZONE

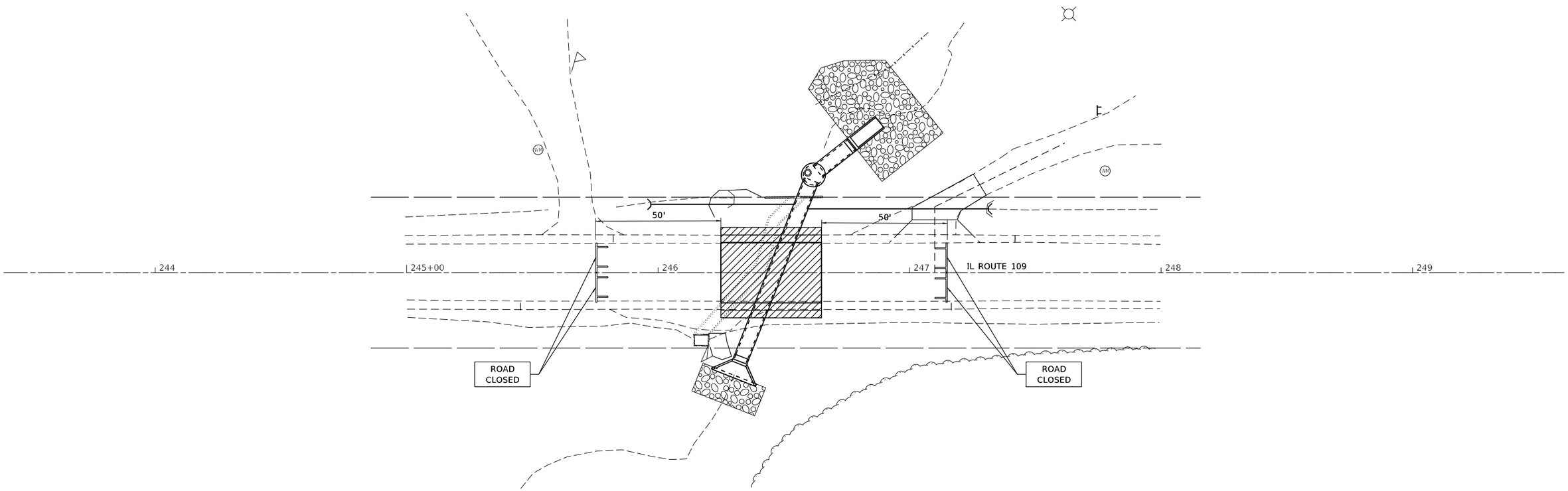
TYPE III BARRICADE

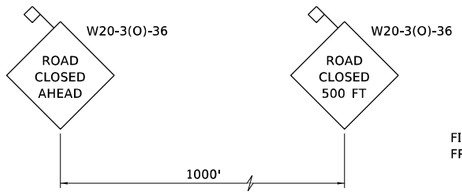
SIGN WITH 18x18 (450x450) MIN.
ORANGE FLAG ATTACHED

N

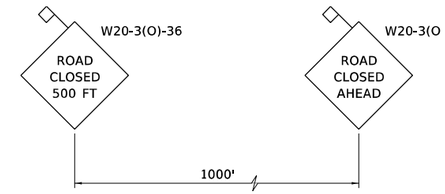
0 20 40 60

SCALE IN FEET





FIRST SIGN LOCATED APPROXIMATELY 500'
FROM DOUBLE TYPE III BARRICADES



FIRST SIGN LOCATED APPROXIMATELY 500'
FROM DOUBLE TYPE III BARRICADES

* FAS ROUTE 747, FAU ROUTE 8813 (IL ROUTE 109)

MODEL: $MODELNAME$
FILE NAME: P:\Projects\0634400 - PTB 176-19 D9 Var Pln I and II\0634416 - WO 15 IL 109 Culverts\CADD\CAD Sheets\D876L10-sht-staging.dgn

VOLKERT

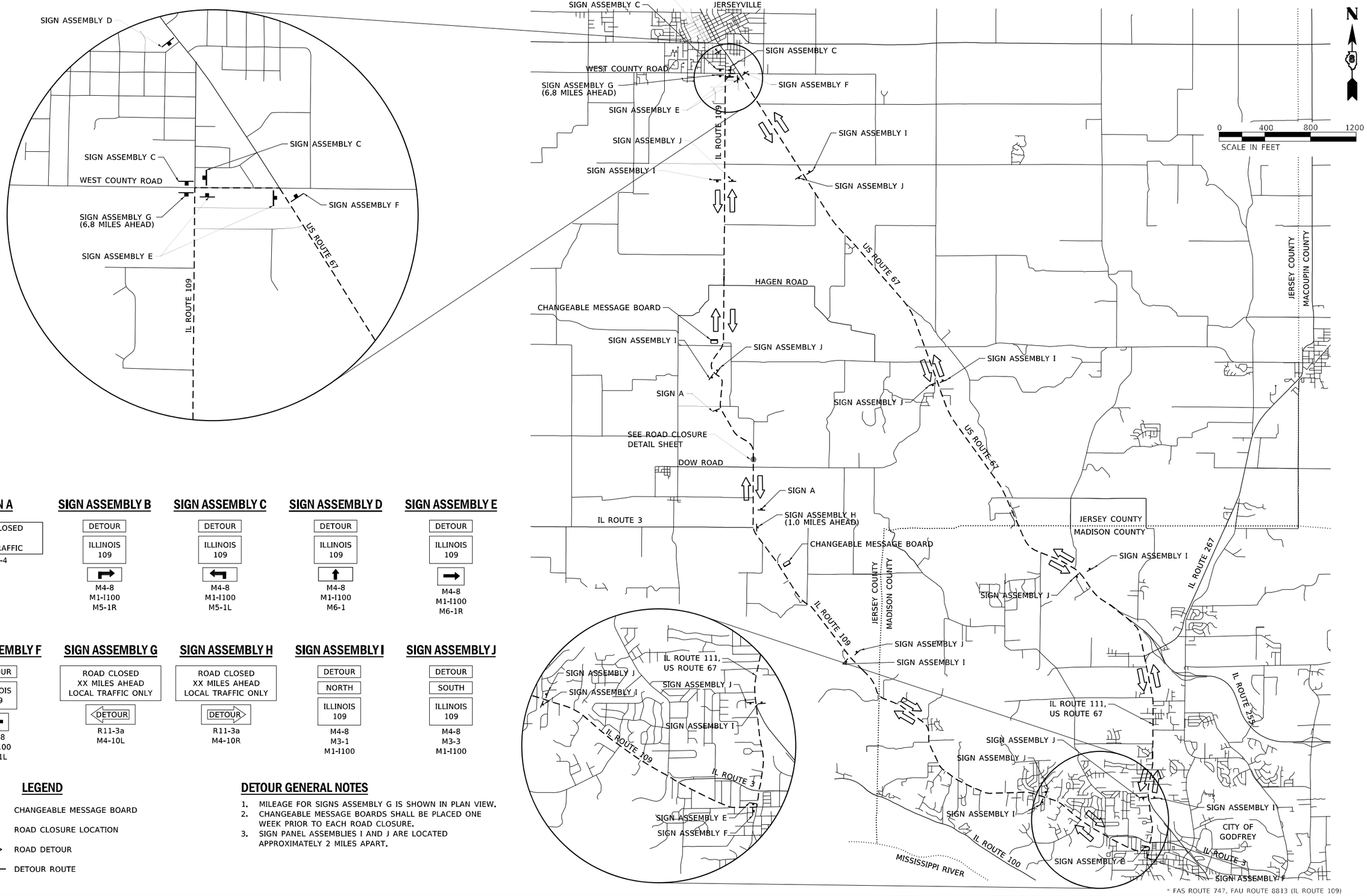
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH OF HAGEN ROAD - ROAD CLOSURE DETAIL
IL ROUTE 109 CULVERT REPLACEMENT

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(57,58,59) RS-2	JERSEY	60	51
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			



SIGN A

ROAD CLOSED TO THRU TRAFFIC

R11-4

SIGN ASSEMBLY B

DETOUR

ILLINOIS 109

M4-8
M1-1100
M5-1R

SIGN ASSEMBLY C

DETOUR

ILLINOIS 109

M4-8
M1-1100
M5-1L

SIGN ASSEMBLY D

DETOUR

ILLINOIS 109

M4-8
M1-1100
M6-1

SIGN ASSEMBLY E

DETOUR

ILLINOIS 109

M4-8
M1-1100
M6-1R

SIGN ASSEMBLY F

DETOUR

ILLINOIS 109

M4-8
M1-1100
M6-1L

SIGN ASSEMBLY G

ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY

DETOUR

R11-3a
M4-10L

SIGN ASSEMBLY H

ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY

DETOUR

R11-3a
M4-10R

SIGN ASSEMBLY I

DETOUR

NORTH

ILLINOIS 109

M4-8
M3-1
M1-I100

SIGN ASSEMBLY J

DETOUR

SOUTH

ILLINOIS 109

M4-8
M3-3
M1-I100

LEGEND

- CHANGEABLE MESSAGE BOARD
- ROAD CLOSURE LOCATION
- ROAD DETOUR
- DETOUR ROUTE

DETOUR GENERAL NOTES

1. MILEAGE FOR SIGNS ASSEMBLY G IS SHOWN IN PLAN VIEW.
2. CHANGEABLE MESSAGE BOARDS SHALL BE PLACED ONE WEEK PRIOR TO EACH ROAD CLOSURE.
3. SIGN PANEL ASSEMBLIES I AND J ARE LOCATED APPROXIMATELY 2 MILES APART.

* FAS ROUTE 747, FAU ROUTE 8813 (IL ROUTE 109)

MODEL: $MODELNAME$
FILE NAME: P:\Projects\63440O - PTB 176-19 D8 Var Ph I and II\63441G - WO 13 IL 109 Culverts\ICADD\CAD Sheets\D876L10-Sht-Detour.dgn

VOLKERT

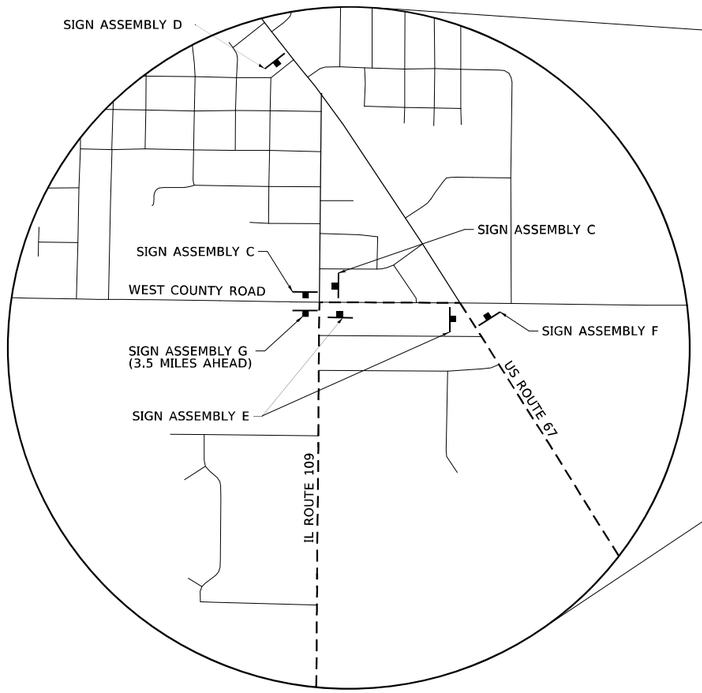
USER NAME = default	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 8000.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 7/30/2021	DATE -	REVISED -	

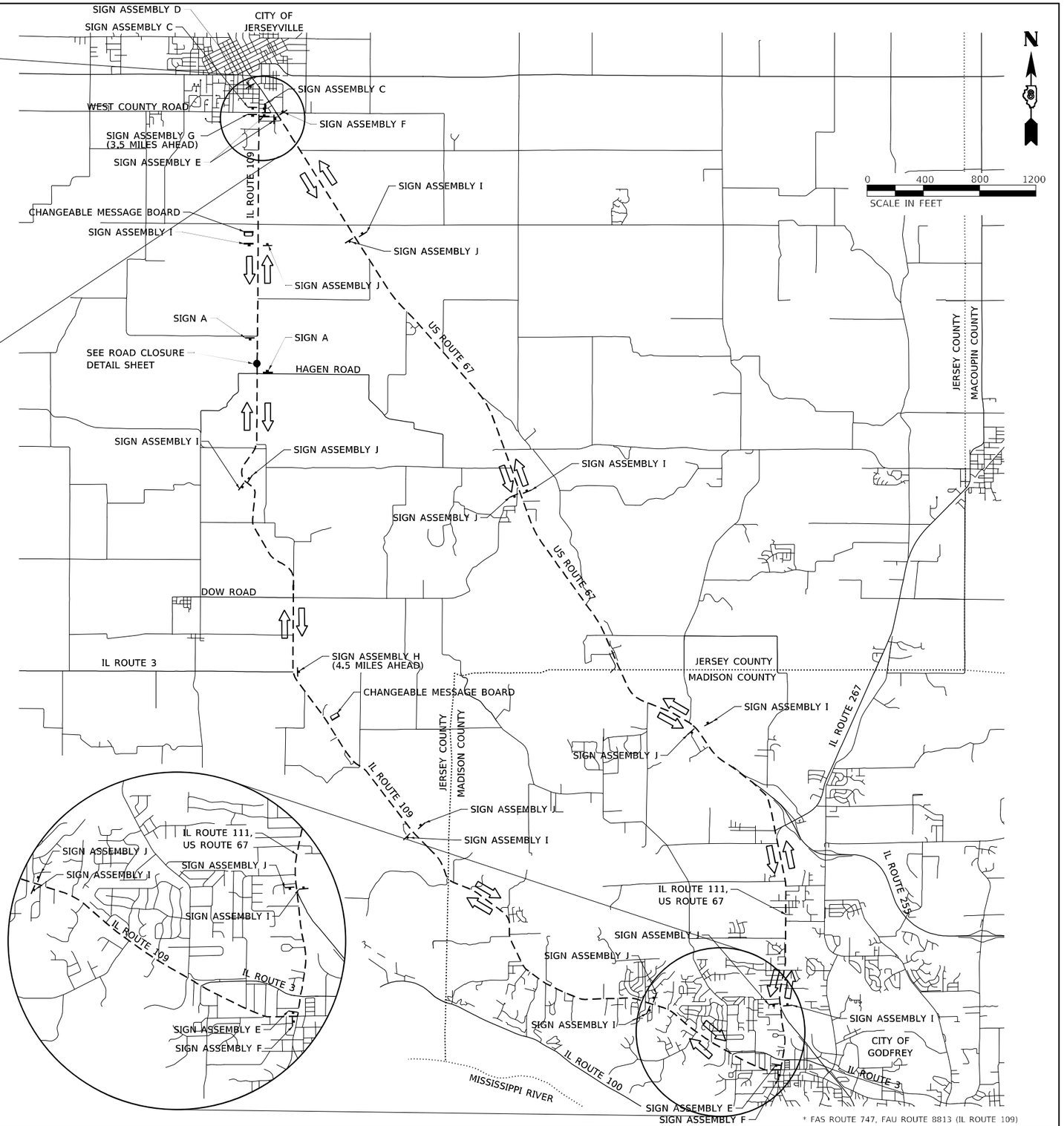
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH OF DOW ROAD - DETOUR SIGNING SHEET
FAP ROUTE 109 CULVERT REPLACEMENTS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
~	(57,58,59) RS-2	JERSEY	60	52
		CONTRACT NO. 76L10		
		ILLINOIS	FED. AID PROJECT	





SIGN A

ROAD CLOSED
TO
THRU TRAFFIC

R11-4

SIGN ASSEMBLY B

DETOUR
ILLINOIS
109

M4-8
M1-I100
M5-1R

SIGN ASSEMBLY C

DETOUR
ILLINOIS
109

M4-8
M1-I100
M5-1L

SIGN ASSEMBLY D

DETOUR
ILLINOIS
109

M4-8
M1-I100
M6-1

SIGN ASSEMBLY E

DETOUR
ILLINOIS
109

M4-8
M1-I100
M6-1R

SIGN ASSEMBLY F

DETOUR
ILLINOIS
109

M4-8
M1-I100
M6-1L

SIGN ASSEMBLY G

ROAD CLOSED
XX MILES AHEAD
LOCAL TRAFFIC ONLY

DETOUR

R11-3a
M4-10L

SIGN ASSEMBLY H

ROAD CLOSED
XX MILES AHEAD
LOCAL TRAFFIC ONLY

DETOUR

R11-3a
M4-10R

SIGN ASSEMBLY I

DETOUR
NORTH
ILLINOIS
109

M4-8
M3-1
M1-I100

SIGN ASSEMBLY J

DETOUR
SOUTH
ILLINOIS
109

M4-8
M3-3
M1-I100

LEGEND

- CHANGEABLE MESSAGE BOARD
- ROAD CLOSURE LOCATION
- ROAD DETOUR
- DETOUR ROUTE

DETOUR GENERAL NOTES

1. MILEAGE FOR SIGNS ASSEMBLY G IS SHOWN IN PLAN VIEW.
2. CHANGEABLE MESSAGE BOARDS SHALL BE PLACED ONE WEEK PRIOR TO EACH ROAD CLOSURE.
3. SIGN PANEL ASSEMBLIES I AND J ARE LOCATED APPROXIMATELY 2 MILES APART.

* FAS ROUTE 747, FAU ROUTE 8813 (IL ROUTE 109)

MODEL: sMODELNAMES
FILE NAME: P:\Projects\634400 - PTB 176-19 D8 Var Pn I and II\634416 - WO 15_IL 109 Culverts\CADD\CAD Sheets\D876L10-Sht-Detour.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 8000.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 7/30/2021	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

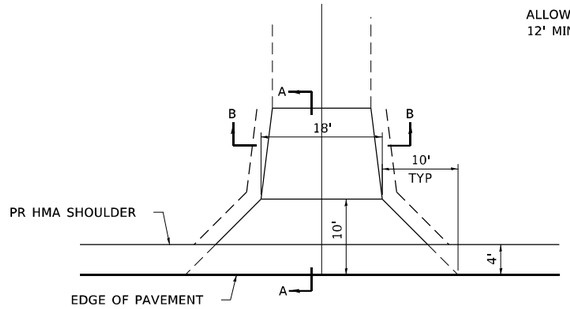
NORTH OF HAGEN ROAD - DETOUR SIGNING SHEET
FAP ROUTE 109 CULVERT REPLACEMENTS

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

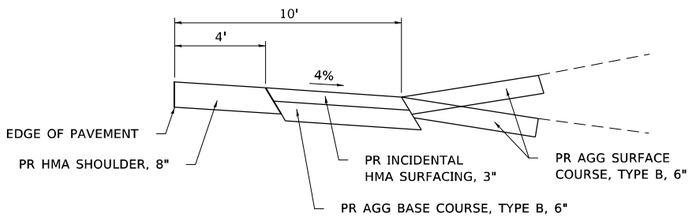
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(57,58,59) RS-2	JERSEY	60	53
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			

AGGREGATE PRIVATE/COMMERCIAL ENTRANCE DETAIL

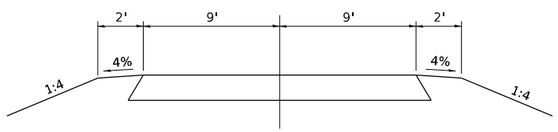
ALLOWABLE PRIVATE ENTRANCE WIDTHS (W):
12' MINIMUM, 24' MAXIMUM.



PLAN



SECTION A–A PRIVATE ENTRANCE
(NOT TO SCALE)



SECTION B–B
(NOT TO SCALE)

* FAS ROUTE 747, FAU ROUTE 8813 (IL ROUTE 109)

MODEL: $MODELNAME$
FILE NAME: P:\Projects\634400 - PTB 176-19 D8 Var Ph I and II\634416 - WO 13 IL 109 Culverts\CADD\CAD Sheets\D8761L10-sht-details.dgn

VOLKERT

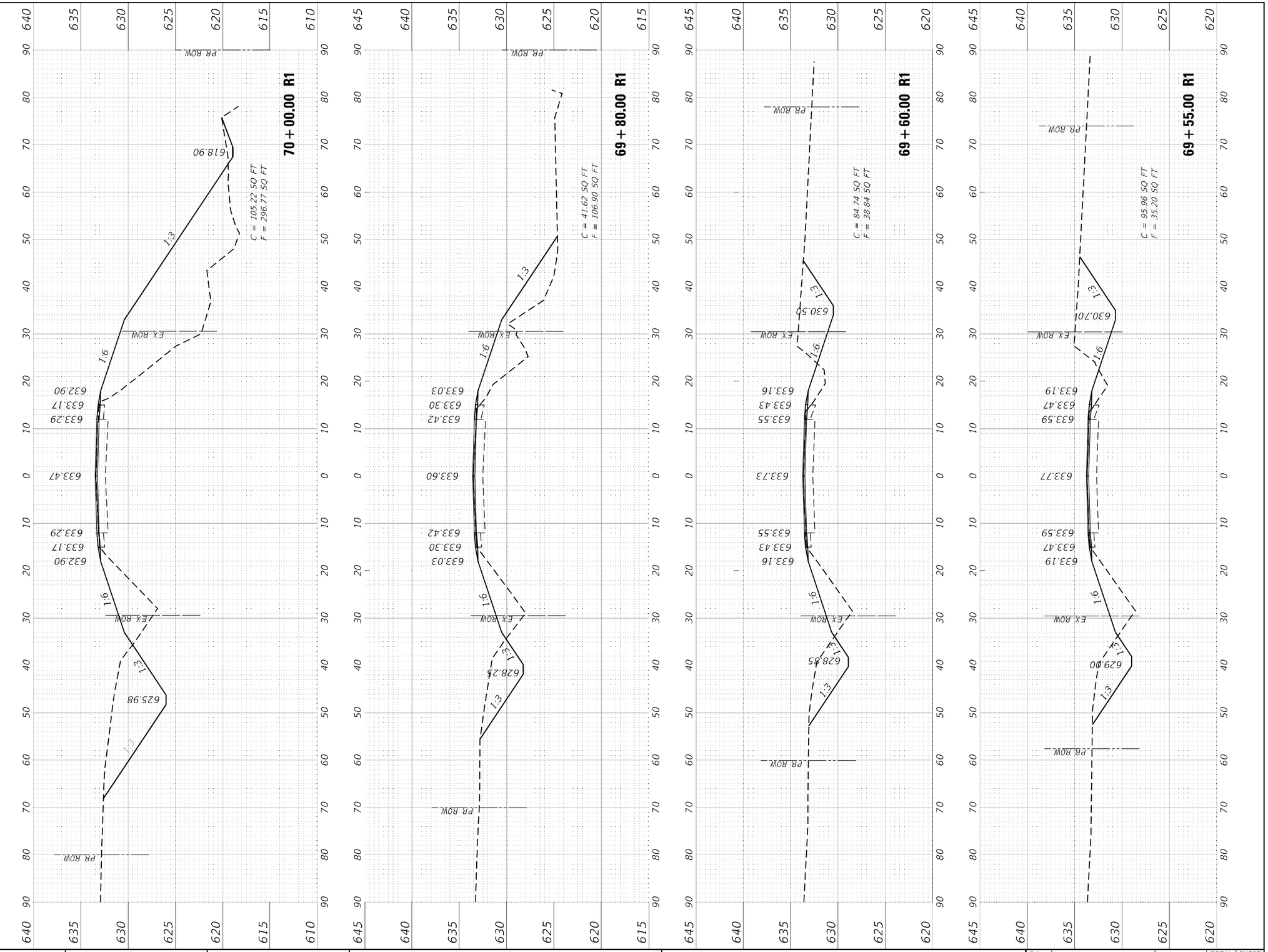
USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS
IL ROUTE 109 CULVERT REPLACEMENTS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
"	(57,58,59) RS-2	JERSEY	60	54
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			



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

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

MODEL: SMODELNAME
FILE NAME: P:\Projects\634400 - PTB 176-19 D8 Var Ph 1 and II\634416 - WO 15 (IL 109 Culverts)\CADD\CAD Sheets\D876L10-sht-xsSdgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2021	DATE -	REVISED -

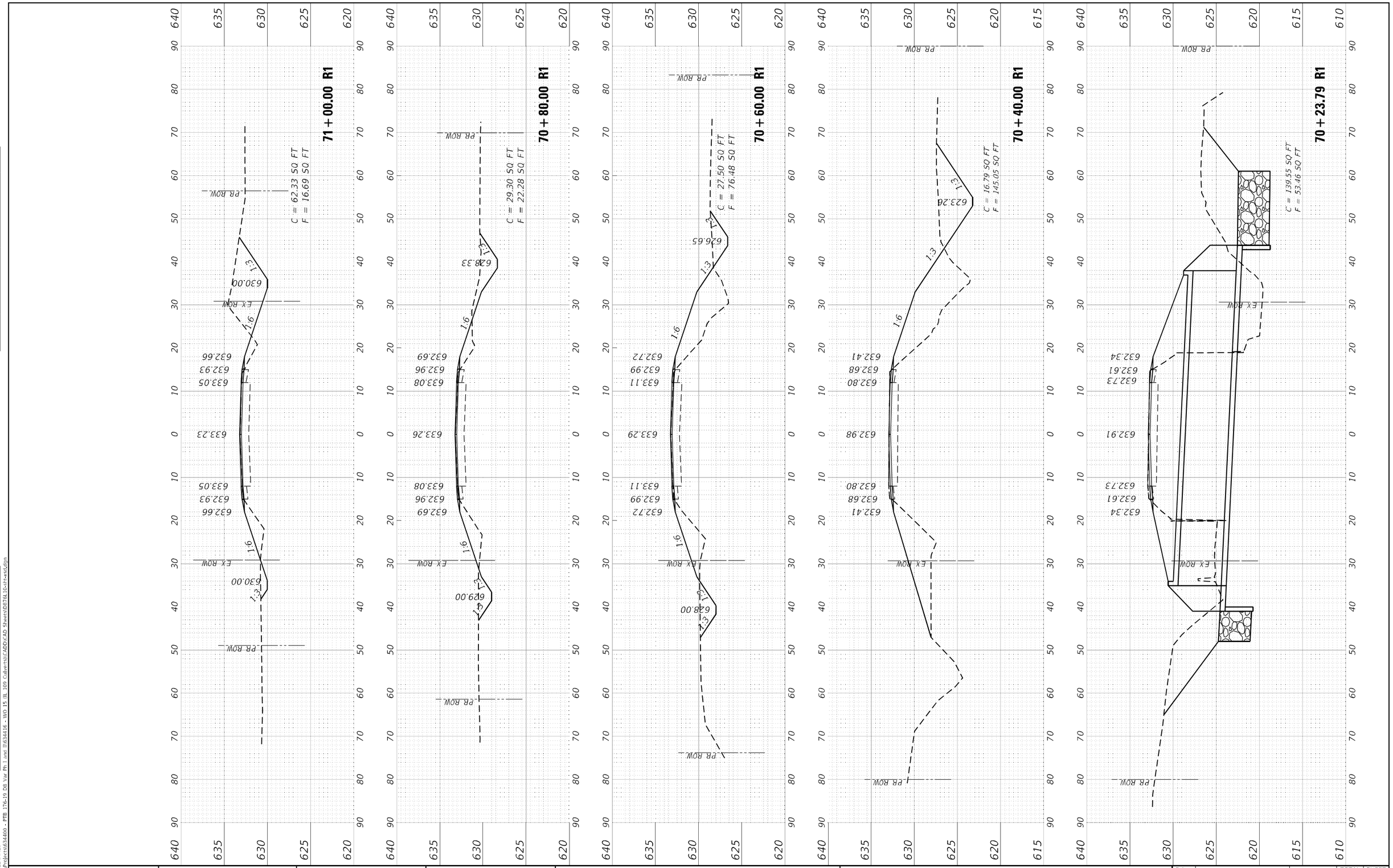
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DOW ROAD CROSS SECTIONS
IL ROUTE 109 CULVERT REPLACEMENT

SCALE: | SHEET 1 OF 6 SHEETS | STA. 69+55.00 R1 TO STA. 70+00.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(57, 58, 59) RS-2	JERSEY	60	55
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		

* FAS 747, FAU 8813 (IL 109)



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

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

MODEL: $MODELNAME$
FILE NAME: P:\Projects\634400 - PTB 176-19 D8 Var Ph 1 and II\634416 - WO 15 IL 109 Culverts\CADD\CAD Sheets\D876L10-sht-xsldtn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DOW ROAD CROSS SECTIONS
IL ROUTE 109 CULVERT REPLACEMENT

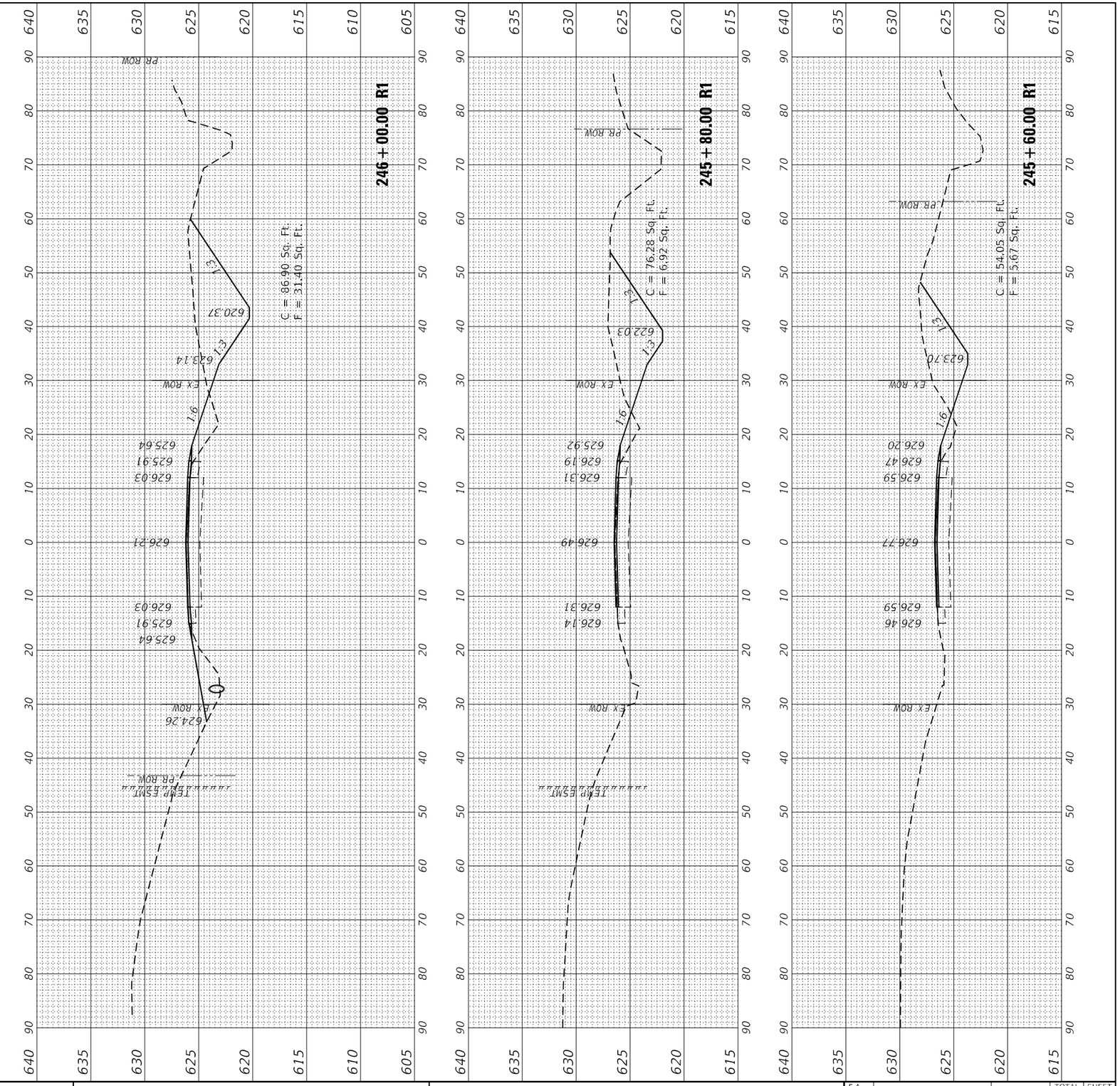
SCALE: | SHEET 2 OF 6 SHEETS | STA. 70+23.79 R1 TO STA. 71+00.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(57, 58, 59) RS-2	JERSEY	60	56
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		

* FAS 747, FAU 8813 (IL 109)

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

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



MODEL: SMODELNAMES
FILE NAME: P:\Projects\634400 - PTB 176-19 08 Var Ph 1 and II\634416 - WO 15 (IL 109 Culverts)\CADD\CAD Sheets\D876L10-cht-xsh.dgn

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2021	DATE -	REVISED -

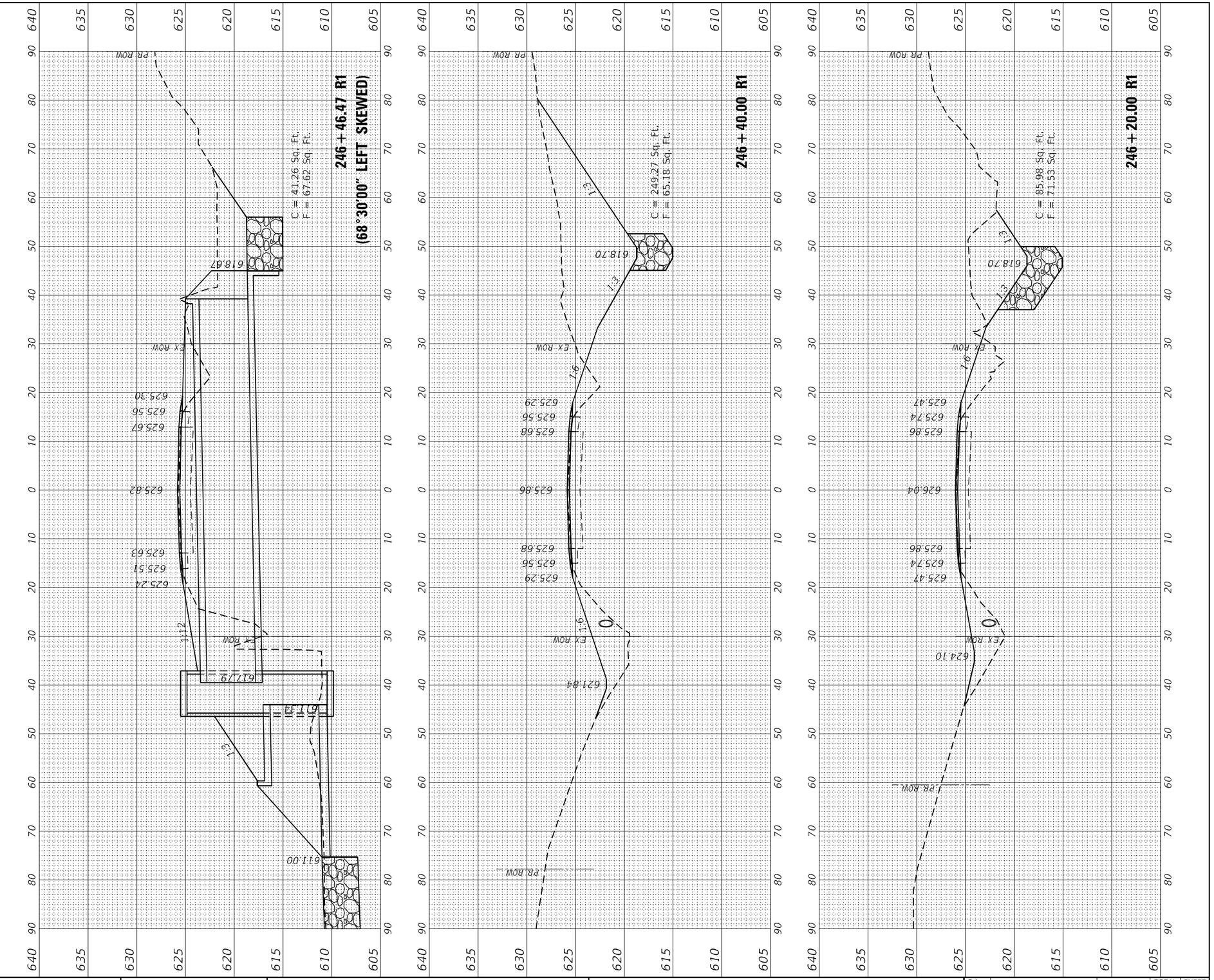
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HAGEN ROAD CROSS SECTIONS
IL ROUTE 109 CULVERT REPLACEMENT

SCALE: | SHEET 3 OF 6 SHEETS | STA. 245+60.00 R1 TO STA. 246+00.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(57, 58, 59) RS-2	JERSEY	60	57
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		

* FAS 747, FAU 8813 (IL 109)



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

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

MODEL: SMODELNAME5
FILE NAME: P:\Projects\634400 - PTB 176-19 08 Var Ph 1 and II\634416 - WO 15 IIL 109 Culverts\CADD\CAD Sheets\D876L10-cht-xsh.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2021	DATE -	REVISED -

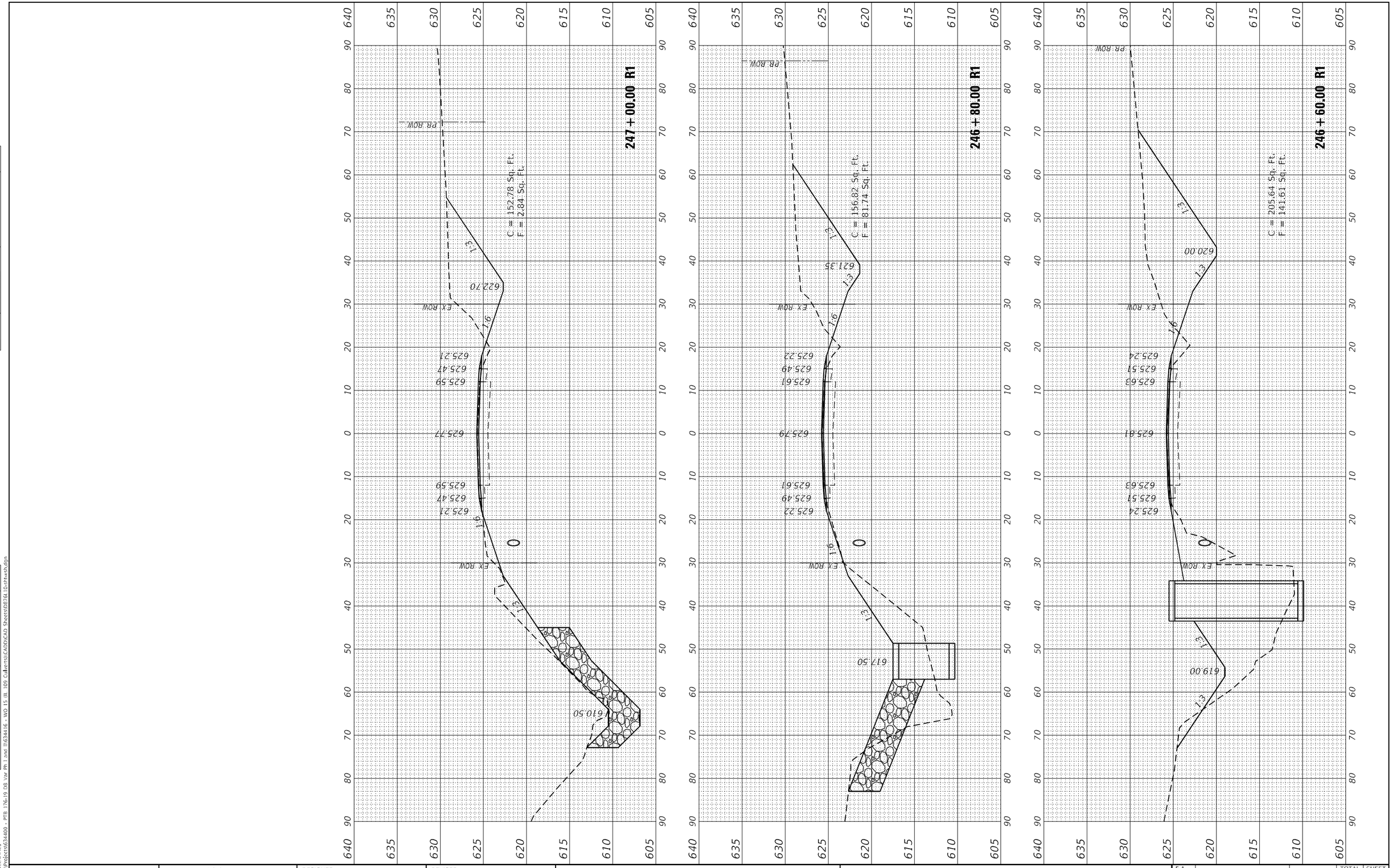
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HAGEN ROAD CROSS SECTIONS
IL ROUTE 109 CULVERT REPLACEMENT

SCALE: | SHEET 4 OF 6 SHEETS | STA. 246+20.00 R1 TO STA. 246+40.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(57, 58, 59) RS-2	JERSEY	60	58
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			

* FAS 747, FAU 8813 (IL 109)



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

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

MODEL: $MODELNAME$
FILE NAME: P:\Projects\634400 - PTB 176-19 08 Var Ph I and II\634416 - WO 15 IL 109 Culverts\CADD\CAD Sheets\b876l10-sht-xsh.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2021	DATE -	REVISED -

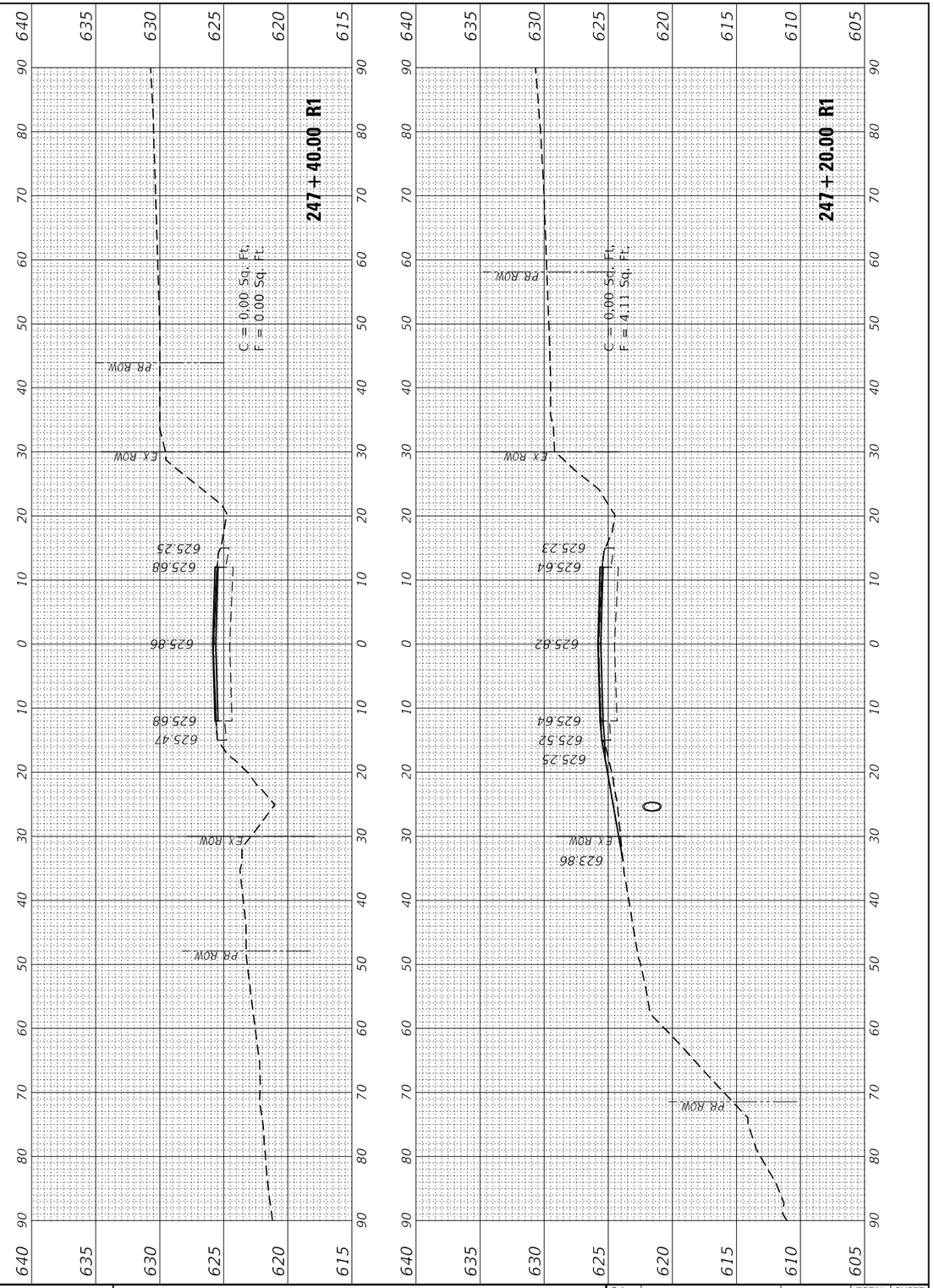
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HAGEN ROAD CROSS SECTIONS
IL ROUTE 109 CULVERT REPLACEMENT

SCALE: | SHEET 5 OF 6 SHEETS | STA. 246+46.47 R1 TO STA. 246+60.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(57, 58, 59) RS-2	JERSEY	60	59
		CONTRACT NO. 76L10		
	ILLINOIS	FED. AID PROJECT		

* FAS 747, FAU 8813 (IL 109)



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

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

MODEL: SMODELNAME5
FILE NAME: P:\Projects\634400 - PTB 176-19 D8 Var Ph 1 and II\634416 - WO 15 IIL 109 Culverts\CADD\CAD Sheets\D876L10-cht-xsh.dgn

VOLKERT

USER NAME = default	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 7/30/2021	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HAGEN ROAD CROSS SECTIONS
IL ROUTE 109 CULVERT REPLACEMENT

SCALE: | SHEET 6 OF 6 SHEETS | STA. 247+20.00 R1 TO STA. 247+40.00 R1

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(57, 58, 59) RS-2	JERSEY	60	60
		CONTRACT NO. 76L10		
	ILLINOIS FED. AID PROJECT			

* FAS 747, FAU 8813 (IL 109)