

SHEET SIGN & POST SUMMARY

SIGN			POST												NOTES				
LINE	SIGN LOCATION (STA.)	SIGN CODE	SIGN SIZE (IN x IN)	GROUND - MOUNTED SIGN AREA (ft ²)			U CHANNEL				SQUARE								
				0.080"	0.100"	0.125"	POST LENGTH		POST LENGTH		2" X 2" - 12 GA. (TYPE 2)			2 1/4" X 2 1/4" - 12 GA. (TYPE 1)					
							1	2	TYPE "A"	TYPE "B"	REINFORCED ANCHOR			REINFORCED ANCHOR					
							FT.	FT.	FT.	FT.	POST LENGTH (FT.)			POST LENGTH (FT.)					
									1	2	TOTAL	1	TOTAL						
PR-S-1-A	56+00, RT.	W3-3	30 X 30															RELOCATE TO NEW SIGN POSTS	
		W16-8aP	30 X 15															RELOCATE TO NEW SIGN POSTS	
	57+55, LT.	M3-4	24 X 12	2.00													15.00	15.00	
	57+70, RT.	M1-5	30 X 24	5.00															
	61+72, LT.	R8-3	30 X 30	6.25															
	62+17, CTR.	R3-2	36 x 36		9.00													ON EXISTING SPAN	
		R3-18	24 X 30	5.00													14.50	14.50	
		R4-7	24 X 30	5.00															
	62+50, RT.	R3-2	36 X 36		9.00													ON EXISTING SPAN	
	62+51, LT.	R3-2	36 X 36		9.00													ON EXISTING SPAN	
	62+82, CTR.	R3-18	24 X 30	5.00													14.50	14.50	
		R4-7	24 X 30	5.00															
	63+35, RT.	R3-2	36 X 36		9.00													ON EXISTING SPAN	
	68+32, CTR.	R3-4	24 X 30	5.00													14.50	14.50	
		R4-7	24 X 30	5.00															
	68+34, LT.	R10-27a	30 X 36	7.50														ON NEW SPAN	
	68+82, LT.	W1-7	48 X 24	8.00														ON NEW SPAN	
	69+04, RT.	R3-5(L)	30 X 36	7.50														ON NEW SPAN	
	69+17, RT.	R3-5(R)	30 X 36	7.50														ON NEW SPAN	
	69+31, LT.	D3-1(1)	114 X 30			23.75												ON NEW SPAN	
	69+51, LT.	R3-5(L)	30 X 36	7.50														ON NEW SPAN	
	69+61, CTR.	R3-4	24 X 30	5.00													14.50	14.50	
		R4-7	24 X 30	5.00															
	70+90, RT.	R2-1(45)	30 x 36	7.50													13.00	13.00	
	73+75, RT.	M3-2	24 X 12	2.00													15.00	15.00	
		M1-5	30 X 24	5.00															
PR-A	15+00, RT.	M4-5	24 X 12	2.00													15.00	15.00	
		M1-5	30 X 24	5.00															
		M5-1R	21 X 15	2.19															
	17+50, RT.	M4-5	24 X 12	2.50													15.00	15.00	
		M1-5	30 X 24	5.00															
		M6-1R	21 X 15	2.19															
	17+83, LT.	R4-7	24 X 30	5.00													12.50	12.50	
	18+14, LT.	R4-7	24 X 30	5.00													12.50	12.50	
	18+05, LT.	R10-27a	30 X 36	7.50														ON NEW SPAN	
	18+82, RT.	R3-5(L)	30 X 36	7.50														ON NEW SPAN	
	18+86, LT.	W1-7	48 X 24	8.00														ON NEW SPAN	
	18+94, RT.	R3-5(R)	30 X 36	7.50														ON NEW SPAN	
	19+13, LT.	D3-1(2)	150 X 24			25.00												ON NEW SPAN	
	19+42, CTR.	R3-4	24 X 30	5.00													14.50	14.50	
		R4-7	24 X 30	5.00															
	19+50, LT.	R3-5(L)	30 X 36	7.50														ON NEW SPAN	
	24+52, CTR.	R3-18	24 X 30	5.00													14.50	14.50	
		R4-7	24 X 30	5.00															
	27+00, LT.	M3-4	24 X 12	2.00													16.75	16.75	
		M1-5	30 X 24	5.00															
		M6-1R	21 X 15	2.19															
	30+45, LT.	M3-4	24 X 12	2.00													16.75	16.75	
		M1-5	30 X 24	5.00															
		M5-1R	21 X 15	2.19															
PR-C	100+92, RT.	R4-7	24 X 30	5.00													12.50	12.50	
	101+50, RT.	R2-1(25)	24 X 30	5.00													12.50	12.50	
	104+98, LT.	R4-7	24 X 30	5.00													12.50	12.50	
	105+57, RT.	R4-7	24 X 30	5.00													12.50	12.50	
	107+00, RT.	M3-4	24 X 12	2.00													16.75	16.75	
		M1-5	30 X 24	5.00															
		M6-1L	21 X 15	2.19															
	107+00, RT.	M3-2	24 X 12	2.00													16.75	16.75	
		M1-5	30 X 24	5.00															
		M6-1R	21 X 15	2.19															
	109+00, LT.	R2-1(25)	24 X 30	5.00													12.50	12.50	
	109+95, LT.	R4-7	24 X 30	5.00													12.50	12.50	
TOTAL THIS SHEET				259	36	49											31	340	340

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NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

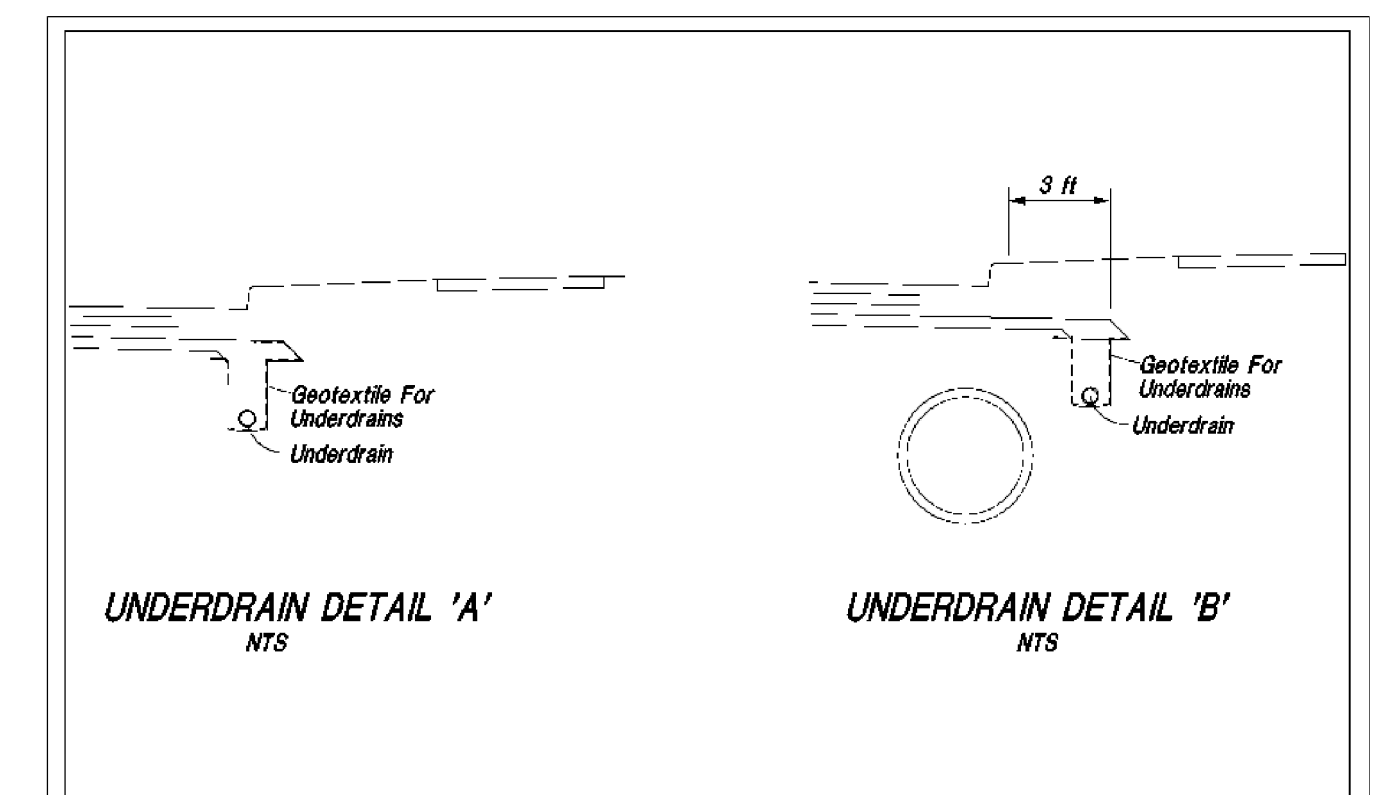
INDIANA DEPARTMENT OF TRANSPORTATION

SIGN TABLE

SCALE	ROAD FILE
	DESIGNATION
	1900107
SURVEY BOOK	SHEETS
ELECTRONIC	71 of 106
CONTRACT	PROJECT
R-42358	1900107

UNDERDRAIN TABLE

Underdrain Pipe Limits		UNDERDRAIN PIPE										OUTLET PIPE										OUTLET PROTECTORS				Video Inspection for Underdrains	Remarks								
		TYPE 4 PIPE		Outlet Station	Geotextile for Underdrains, Type IA (SYS)	Aggregate for Underdrains (CYS)	HMA for Underdrains (Tons)	Special Grade %	Flow Line Elevation @ Outlet Station	Outlet Pipe Required (Y/N)	Connect Underdrain Pipe to Structure No.	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6 inch Outlet Pipe (ft)	Outlet Station	Outlet Elevation	Outlet Protector No.	Ditch Flow Line Elevation at Outlet Protector	Connect Outlet Pipe to Structure No.	Underdrain Outlet Elevation	Structure Backfill (CYS)	HMA for Underdrains (Tons)	Outlet Protector Type 1 (EACH)	Outlet Protector Type 2 (EACH)	Outlet Protector Type 3 (EACH)			Location		Underdrain Detail (A or B)					
LT	RT	STATION	4 inches (ft)																							6 inches (ft)	Structure Backfill (CYS)	HMA for Underdrains (Tons)	Outlet Protector Type 1 (EACH)		Outlet Protector Type 2 (EACH)	Outlet Protector Type 3 (EACH)	Outside Left	Outside Right	Video Inspection for Underdrains (ft)
		PR-S-1-A'																																	
X	X	63+32 63+80	48	63+80	57	6		757.10	N	101	757.10																							B	48
X	X	63+80 65+60	180	65+60	214	21		757.71	N	102	758.15																							B	180
X	X	65+60 65+90	30	65+90	36	3		757.70	N	103	755.89																							B	30
X	X	65+90 66+20	30	66+20	36	3		757.69	N	104	755.63																							B	30
X	X	66+20 66+50	30	66+50	36	3		757.65	N	105	755.38																							B	30
X	X	66+50 67+00	50	67+00	59	6		757.64	N	106	755.00																							B	50
X	X	68+19 67+55	50	67+55	59	6		757.68	N	108	755.50																							B	50
X	X	69+85 70+75	85	69+85	101	10		758.82	N	110	758.23																							B	85
X	X	70+75 71+75	72	70+75	86	8		759.24	N	111	757.30																							B	72
X	X	71+75 72+75	100	71+75	119	11		759.55	N	113	758.56																							B	100
X	X	72+75 73+75	100	72+75	119	11		759.95	N	114	759.14																							B	100
X	X	73+75 74+75	100	73+75	119	11		760.43	N	115	759.74																							B	100
X	X	74+75 75+80	105	74+75	125	12		760.81	N	116	759.90																							B	105
X	X	75+80 76+60	80	75+80	95	9		761.16	N	118	760.45																							B	80
X	X	76+60 77+35	75	76+60	89	9		761.36	N	119	760.90																							B	75
X	X			54+14																															
X	X	54+14 57+75	381	57+75	429	41		755.87	Y			2	13	57+75	758	1	756		758	1			1			57+75								361	
X	X	57+75 61+90	415	57+75	493	48			N																										415
X	X	62+86 65+87	301	65+87	358	34			N																										301
SUB TOTAL			2212		2627	253						2	13							1.0				1										2212	



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NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA
DEPARTMENT OF TRANSPORTATION

UNDERDRAIN TABLE

SCALE	ROAD FILE
	-
	DESIGNATION
	1900107
SURVEY BOOK	SHEETS
ELECTRONIC	73 of 106
CONTRACT	PROJECT
R-42358	1900107

NOTES:
 1. CONTRACTOR TO FIELD VERIFY UPSTREAM INVERT BEFORE PLACING.
 * TOP OF CASTING ELEVATIONS FOR CASTINGS IN CURB LINE ARE CALCULATED 0.02 FT BELOW THE GUTTER LINE ELEVATION.

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION				DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH LFT	SKEW	FLOWLINE			TOP OF CASTING ELEV	SERVICE LIFE YR	SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL		FLOWABLE BACKFILL		REINFORCEMENT RIP-RAP		CONCRETE CLASS A FOR STR.		VIDEO INSPECTION	PIPE END SECTION	GRATED BOX END SECTION				SAFETY METAL END SECTION	CONNECT TO STR.	NOTES/REMARKS			
	STATION	LEFT	RIGHT	CROSS				PIPE TYPE	COVER	UPSTREAM INVERT ELEV						DOWNSTREAM INVERT ELEV	TYPE	CYS	TYPE	CYS	TON	EA	LFT			EA	TYE	SLOPE	EA				SLOPE	EA	
																																			FT
50	PR-S-1 55+18	X			MH TYPE J4	12		2.0	756.75	756.70	761.02	75	NA	7.9	1	1	9														OUT				
50	55+18	X				65		0.8	756.97	756.75	761.02	75	NA	7.9	1	1	32														50				
50	55+18	X				8		3.0	756.82	756.77	761.02	75	NA	7.9	1	1	3																		
51	60+59	X			PIPE CULVERT	268		2.6	755.40	752.64	756.87	75	NA	7.9	1	1	238														OUT	CONNECT TO EXISTING STRUCTURE			
101	63+80	X			INLET TYPE B15	177		2.7	757.10	756.27	760.61	75	NA	7.9	1	1	65															102			
102	65+60	X			INLET TYPE C15	27		3.2	756.27	756.14	760.63	75	NA	7.9	1	1	12																103		
103	65+90	X			INLET TYPE C15	27		3.3	756.14	756.01	760.62	75	NA	7.9	1	1	12																104		
104	66+20	X			INLET TYPE C15	27		3.4	756.01	755.88	760.61	75	NA	7.9	1	1	12																	105	
105	66+50	X			INLET TYPE C15	47		3.6	755.88	755.65	760.57	75	NA	7.9	1	1	22																	106	
328	66+95	X			MOD. MH TYPE K4	40		4.8	754.80	754.60	758.20	75	NA	7.9	1	1	25							1								OUT			
106	67+00	X			INLET TYPE C15	38		4.9	755.65	755.46	760.56	75	NA	7.9	1	1	27																OUT		
107	67+44	X			4-SIDED BOX EXTENSION	31	0.5' RT	2.8	754.34	754.20		75	NA	7.9	2	57															OUT	EXISTING 2 LFT OF EX. STR. TO BE REMOVED AT INLET			
108	67+55	X			INLET TYPE B15	26		5.3	755.50	755.00	760.38	75	NA	7.9	1	1	18																OUT		
109	68+87	X			BOX CULVERT 3' X 3'	134		1.0	755.51	754.76	760.50	75	NA	7.9	1		5	137														OUT	COATED REINFORCED		
110	69+85	X			INLET TYPE B15	87		2.7	758.23	757.80	761.74	75	NA	7.9	1	1	32																111		
111	70+75	X			INLET TYPE C15	14		3.4	758.00	757.70	762.16	75	NA	7.9	1	1	7																OUT		
113	71+75	X			INLET TYPE C15	97		2.8	758.56	758.00	762.47	75	NA	7.9	1	1	37																	111	
114	72+75	X			INLET TYPE C15	97		2.5	759.14	758.68	762.87	75	NA	7.9	1	1	33																	113	
115	73+75	X			INLET TYPE B15	97		2.4	759.74	759.26	763.35	75	NA	7.9	1	1	32																	114	
116	74+75	X			INLET TYPE C15	13		2.4	759.90	759.83	763.73	75	NA	7.9	1	1	4																	OUT	
117	75+30	X			PIPE CULVERT	56		3.3	758.96	758.67	764.02	75	NA	7.9	1	1	28																OUT		
118	75+80	X			INLET TYPE C15	102		2.5	760.45	759.90	764.08	75	NA	7.9	1	1	35																	116	
119	76+60	X			INLET TYPE C15	77		2.3	760.90	760.45	764.28	75	NA	7.9	1	1	25																	118	
120	77+35	X			INLET TYPE B15	72		2.0	761.30	760.90	764.41	75	NA	7.9	1	1	21																	119	
400	15+12	X			INLET TYPE C15	6		1.1	759.76	759.69	763.29	75	NA	7.9	1	1	1																	CONNECT TO EXISTING STRUCTURE	
401	15+12	X			INLET TYPE B15	6		1.2	759.85	759.83	763.40	75	NA	7.9	1	1	1																	CONNECT TO EXISTING PIPE	
402	16+52	X			INLET TYPE C15	6		1.2	759.96	759.93	763.56	75	NA	7.9	1	1	1																	CONNECT TO EXISTING STRUCTURE	
	16+52	X				6		2.4	759.97	759.96	763.56	75	NA	7.9	1	1	2																	CONNECT TO EXISTING PIPE	
403	16+52	X			INLET TYPE C15	14		0.9	760.18	760.11	763.26	75	NA	7.9	1	1	2																	CONNECT TO EXISTING PIPE	
Outfall	16+52	X				11		1.8	760.23	760.18	763.26	75	NA	7.9	1	1	3																	403	
404	19+92	X			INLET TYPE C15	6		1.3	758.94	758.32	762.80	75	NA	7.9	1	1	1																	CONNECT TO EXISTING STRUCTURE	
	19+92	X				6		2.5	759.07	759.05	762.80	75	NA	7.9	1	1	2																		CONNECT TO EXISTING PIPE
405	21+92	X			INLET TYPE C15	6		1.4	756.56	756.53	760.58	75	NA	7.9	1	1	1																		CONNECT TO EXISTING STRUCTURE
	21+92	X				6		2.8	756.58	756.56	760.58	75	NA	7.9	1	1	2																		CONNECT TO EXISTING PIPE
406	23+35	X			INLET TYPE C15	7		1.1	755.75	755.29	759.20	75	NA	7.9	1	1	1																	CONNECT TO EXISTING STRUCTURE	
407	26+27	X			INLET TYPE C15	24		3.4	754.84	754.60	762.91	75	NA	7.9	1	1	11																	CONNECT TO EXISTING STRUCTURE	
	26+27	X				6		6.8	755.01	754.84	762.91	75	NA	7.9	1	1	5																	CONNECT TO EXISTING PIPE	
408	27+37	X			INLET TYPE C15	6		1.4	762.00	761.95	765.86	75	NA	7.9	1	1	1																	OUT	
	27+37	X				8		2.6	762.14	762.00	765.86	75	NA	7.9	1	1	3																	CONNECT TO EXISTING PIPE	
409	29+12	X			INLET TYPE C15	7		-2.3	769.36	769.30	773.28	75	NA	7.9	1	1	-1																OUT		
	29+12	X				8		2.6	769.51	769.36	773.28	75	NA	7.9	1	1	3																	CONNECT TO EXISTING PIPE	

STRUCTURE NUMBER	LOCATION				DESCRIPTION MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH LFT	SKEW	FLOWLINE			TOP OF CASTING ELEV	SERVICE LIFE YR	SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL		FLOWABLE BACKFILL		REINFORCEMENT RIP-RAP		CONCRETE CLASS A FOR STR.		VIDEO INSPECTION	PIPE END SECTION	GRATED BOX END SECTION				SAFETY METAL END SECTION	CONNECT TO STR.	NOTES/REMARKS				
	STATION	LEFT	RIGHT	CROSS				PIPE TYPE	COVER	UPSTREAM INVERT ELEV						DOWNSTREAM INVERT ELEV	TYPE	CYS	TYPE	CYS	TON	EA	LFT			EA	TYE	SLOPE	EA				SLOPE	EA		
																																			FT	IN
LINE	PR-C																																			
301	100+90	X			INLET TYPE C15	62		2.1	758.77	758.47	762.14	75	NA	7.9	1	1	18																	303		
302	100+90	X			INLET TYPE B15	46		2.1	758.97	758.77	762.18	75	NA	7.9	1	1	14																		301	
303	101+55	X			INLET TYPE C15	69		2.5	758.4																											

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STRUCTURE NUMBER - LINE PR-S-1-A		50	50	50	51	101	102	103	104	105	106	108	109	110	111	113	114	115	116	117	118	119		
PIPE TYPE / SHAPE (CIR or DEF)		2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	1 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	3 / Cir.	2 / Cir.	2 / Cir.		
INT. DES.		36"	36"	12"	36"	12"	12"	12"	12"	12"	15"	12"	15"	12"	15"	12"	12"	12"	12"	12"	15"	12"	12"	
CONC.	CLASS	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	
	D ₉₀ RATING	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
PLASTIC PIPE	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)					X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	CORRUGATED PE PIPE, TYPE S (S)*			X		X	X		X	X	X	X	X	X	X	X	X	X	X		X	X	X	
	PROFILE WALL (RIBBED) PE PIPE (S)*																							
	PROFILE WALL (CLOSED) PE PIPE (S)*																							
	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR			26		26	26	26	26	26	26	26	26	26	26	26	26	26	26			26	26	
	CORRUGATED PP PIPE (S)			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	
CLAY	PROFILE WALL PVC PIPE (S)			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	
	SMOOTH WALL PVC PIPE (S)*			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	
	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X	
	CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)																						
		ZINC COATED (C)																						
		ZINC COATED W/ BPI (C)																						
ALUM. COATED TYPE 2 (C)																								
POLYMER PRECOATED GALVANIZED (C)																								
POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)																								
COR. ALUM. PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY (C)																							
	CORRUGATED ALUM. ALLOY W/ BPI (C)																							
	SPIRAL RIB STEEL PIPE	ZINC COATED (SS)																						
		ZINC COATED W/ BPI (SS)																						
		ALUM. COATED TYPE 2 (SS)																						
		POLYMER PRECOATED GALVANIZED (SS)																						
STRUCTURAL PLATE PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY (C)																							
	STR. PLATE ALUMINUM ALLOY W/ CFP (C)																							
	STR. PLATE STEEL (C)																							
	STR. PLATE STEEL W/ CFP (C)																							

STRUCTURE NUMBER - LINE PR-S-1-A		120	328																				
PIPE TYPE / SHAPE (CIR or DEF)		2 / Cir.	2 / Cir.																				
INT. DES.		12"	12"																				
CONC.	CLASS	II	II																				
	D ₉₀ RATING	1000	1000																				
PLASTIC PIPE	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)					X	X																
	CORRUGATED PE PIPE, TYPE S (S)*			X		X	X																
	PROFILE WALL (RIBBED) PE PIPE (S)*																						
	PROFILE WALL (CLOSED) PE PIPE (S)*																						
	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR			26		26																	
	CORRUGATED PP PIPE (S)			X		X																	
CLAY	PROFILE WALL PVC PIPE (S)			X		X																	
	SMOOTH WALL PVC PIPE (S)*			X		X																	
	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)			X		X																	
	CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)																					
		ZINC COATED (C)																					
		ZINC COATED W/ BPI (C)																					
ALUM. COATED TYPE 2 (C)																							
POLYMER PRECOATED GALVANIZED (C)																							
POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)																							
COR. ALUM. PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY (C)																						
	CORRUGATED ALUM. ALLOY W/ BPI (C)																						
	SPIRAL RIB STEEL PIPE	ZINC COATED (SS)																					
		ZINC COATED W/ BPI (SS)																					
		ALUM. COATED TYPE 2 (SS)																					
		POLYMER PRECOATED GALVANIZED (SS)																					
STRUCTURAL PLATE PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY (C)																						
	STR. PLATE ALUMINUM ALLOY W/ CFP (C)																						
	STR. PLATE STEEL (C)																						
	STR. PLATE STEEL W/ CFP (C)																						

LEGEND

PIPE MATERIAL

- RCP Reinforced Concrete Pipe
- RCHEP Reinforced Concrete Horizontal Elliptical Pipe
- PE Polyethylene
- DR Dimension Ratio
- PVC Polyvinyl Chloride
- PP Polypropylene
- CORR Corrugation
- ALUM Aluminum
- STR Structural
- (LS) Lock Seam Pipe Required

PIPE PROTECTION

- BPI Bituminous Paved Invert
- CFP Concrete Field Paving
- BIT Bituminous

SHAPE

- CIR Circular Pipe
- DEF Deformed Pipe

INTERIOR DESIGNATION

- (S) Smooth Pipe Material
- (C) Corrugated Pipe Material
- (SS) Semi-Smooth Pipe Material

PIPE SIZE

Circular pipe is shown as diameter in inches
Deformed pipe is shown as area in square feet

* Refer to Standard Drawings 715-PHCL-20 through -22 for nominal diameter appropriate for pay item diameter.

** Tabulated thickness refers to top and side plates. For pipes and pipe-arches with a thickness less than .280 in., bottom plates shall be of next greater available thickness.



NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____

DESIGNED: JWH DRAWN: DPH

CHECKED: FS CHECKED: JWH

INDIANA DEPARTMENT OF TRANSPORTATION

PIPE MATERIALS TABLE

SCALE	ROAD FILE
	DESIGNATION
	1900107
SURVEY BOOK	SHEETS
ELECTRONIC	76 of 106
CONTRACT	PROJECT
R-42358	1900107

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		STRUCTURE NUMBER - LINE PR-A																				
		400	401	402	402	403	403	404	404	405	405	406	407	407	408	408	409	409	301	302	303	304
INT. DES.	PIPE TYPE / SHAPE (CIR or DEF)	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.
	SMOOTH PIPE SIZE	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
	CORRUGATED PIPE SIZE																					
	SEMI-SMOOTH PIPE SIZE																					
CONC.	RCP/RCHP (S)	CLASS II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
	D _{0.01} RATING	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)				X			X	X	X	X		X	X	X	X	X	X	X	X	X	X
	CORRUGATED PE PIPE, TYPE S (S)*				X				X				X	X	X	X	X	X	X	X	X	X
	PROFILE WALL (RIBBED) PE PIPE (S)*																					
	PROFILE WALL (CLOSED) PE PIPE (S)*																					
PLASTIC PIPE	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR				26																	
	CORRUGATED PP PIPE (S)				X																	
	PROFILE WALL PVC PIPE (S)				X																	
	SMOOTH WALL PVC PIPE (S)*				X																	
	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		X	X	X			X	X	X	X		X	X	X	X	X	X	X	X	X	X
	CLAY																					
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)																					
	ZINC COATED (C)																					
	ZINC COATED W/ BPI (C)																					
	ALUM. COATED TYPE 2 (C)																					
	POLYMER PRECOATED GALVANIZED (C)																					
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)																					
CORR. ALUM. PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY (C)																					
	CORRUGATED ALUM. ALLOY W/ BPI (C)																					
SPIRAL RIB STEEL PIPE	ZINC COATED (SS)																					
	ZINC COATED W/ BPI (SS)																					
	ALUM. COATED TYPE 2 (SS)																					
	POLYMER PRECOATED GALVANIZED (SS)																					
STRUCTURAL PLATE PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY (C)																					
	STR. PLATE ALUMINUM ALLOY W/ CFP (C)																					
	STR. PLATE STEEL (C)																					
	STR. PLATE STEEL W/ CFP (C)																					

		STRUCTURE NUMBER - LINE PR-A													
		305	306	5	6	7	8	9	10	11	12	13	14	15	16
INT. DES.	PIPE TYPE / SHAPE (CIR or DEF)	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.	2 / Cir.
	SMOOTH PIPE SIZE	15"	24"	12"	12"	12"	12"	12"	12"	15"	12"	12"	15"	12"	12"
	CORRUGATED PIPE SIZE														
	SEMI-SMOOTH PIPE SIZE														
CONC.	RCP/RCHP (S)	CLASS II	II	II	II	II	II	II	II	II	II	II	II	II	II
	D _{0.01} RATING	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	CORRUGATED PE PIPE, TYPE S (S)*	X	X												
	PROFILE WALL (RIBBED) PE PIPE (S)*														
	PROFILE WALL (CLOSED) PE PIPE (S)*														
PLASTIC PIPE	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR	26	26												26
	CORRUGATED PP PIPE (S)	X	X												X
	PROFILE WALL PVC PIPE (S)	X	X												X
	SMOOTH WALL PVC PIPE (S)*	X	X												X
	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	CLAY														
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)														
	ZINC COATED (C)														
	ZINC COATED W/ BPI (C)														
	ALUM. COATED TYPE 2 (C)														
	POLYMER PRECOATED GALVANIZED (C)														
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)														
CORR. ALUM. PIPE / PIPE-ARCH	CORRUGATED ALUM. ALLOY (C)														
	CORRUGATED ALUM. ALLOY W/ BPI (C)														
SPIRAL RIB STEEL PIPE	ZINC COATED (SS)														
	ZINC COATED W/ BPI (SS)														
	ALUM. COATED TYPE 2 (SS)														
	POLYMER PRECOATED GALVANIZED (SS)														
STRUCTURAL PLATE PIPE / PIPE-ARCH	STR. PLATE ALUMINUM ALLOY (C)														
	STR. PLATE ALUMINUM ALLOY W/ CFP (C)														
	STR. PLATE STEEL (C)														
	STR. PLATE STEEL W/ CFP (C)														

LEGEND

PIPE MATERIAL

- RCP Reinforced Concrete Pipe
- RCHP Reinforced Concrete Horizontal Elliptical Pipe
- PE Polyethylene
- DR Dimension Ratio
- PVC Polyvinyl Chloride
- PP Polypropylene
- CORR Corrugation
- ALUM Aluminum
- STR Structural
- (LS) Lock Seam Pipe Required

PIPE PROTECTION

- BPI Bituminous Paved Invert
- CFP Concrete Field Paving
- BIT Bituminous

SHAPE

- CIR Circular Pipe
- DEF Deformed Pipe

INTERIOR DESIGNATION

- (S) Smooth Pipe Material
- (C) Corrugated Pipe Material
- (SS) Semi-Smooth Pipe Material

PIPE SIZE

- Circular pipe is shown as diameter in inches
- Deformed pipe is shown as area in square feet

* Refer to Standard Drawings 715-PHCL-20 through -22 for nominal diameter appropriate for pay item diameter.

** Tabulated thickness refers to top and side plates. For pipes and pipe-arches with a thickness less than .280 in., bottom plates shall be of next greater available thickness.



NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____

DESIGNED: JWH DRAWN: DPH

CHECKED: FS CHECKED: JWH

INDIANA DEPARTMENT OF TRANSPORTATION

PIPE MATERIALS TABLE

SCALE	ROAD FILE
	DESIGNATION
	1900107
SURVEY BOOK	SHEETS
ELECTRONIC	77 of 106
CONTRACT	PROJECT
R-42358	1900107

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		STRUCTURE NUMBER - LINE PR-C																				
		301	302	303	304	305	306	308	309	307	310	311	312	313	314	315	316	317	318	319	320	321
		PIPE TYPE / SHAPE (CIR or DEF)																				
		SMOOTH PIPE SIZE																				
		CORRUGATED PIPE SIZE																				
		SEMI-SMOOTH PIPE SIZE																				
INT. DES.	CONC.																					
PLASTIC PIPE	RCP/RCHP (S)	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II	II
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
	CORRUGATED PE PIPE, TYPE S (S)*	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	PROFILE WALL (RIBBED) PE PIPE (S)*																					
	PROFILE WALL (CLOSED) PE PIPE (S)*																					
	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR	26				26	26	26			26	26	26			26	26			26	26	26
	CORRUGATED PP PIPE (S)	X				X	X	X			X	X	X			X	X			X	X	X
CLAY	PROFILE WALL PVC PIPE (S)	X				X	X	X			X	X	X			X	X			X	X	X
	SMOOTH WALL PVC PIPE (S)*	X				X	X	X			X	X	X			X	X			X	X	X
	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	FULLY BIT. PAVED & LINED (S)																					
	ZINC COATED (C)																					
	ZINC COATED W/ BPI (C)																					
	ALUM. COATED TYPE 2 (C)																					
COR. ALUM. PIPE / PIPE-ARCH	POLYMER PRECOATED GALVANIZED (C)																					
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)																					
	CORRUGATED ALUM. ALLOY (C)																					
	CORRUGATED ALUM. ALLOY W/ BPI (C)																					
	ZINC COATED (SS)																					
	ZINC COATED W/ BPI (SS)																					
	ALUM. COATED TYPE 2 (SS)																					
SPIRAL RIB STEEL PIPE	POLYMER PRECOATED GALVANIZED (SS)																					
	STR. PLATE ALUMINUM ALLOY (C)																					
	STR. PLATE ALUMINUM ALLOY W/ CFP (C)																					
	STR. PLATE STEEL (C)																					
	STR. PLATE STEEL W/ CFP (C)																					
	CORR. PROFILE THICKNESS																					
	CORR. PROFILE THICKNESS **																					

		STRUCTURE NUMBER - LINE PR-C				
		322	323	324	326	327
		PIPE TYPE / SHAPE (CIR or DEF)				
		SMOOTH PIPE SIZE				
		CORRUGATED PIPE SIZE				
		SEMI-SMOOTH PIPE SIZE				
INT. DES.	CONC.					
PLASTIC PIPE	RCP/RCHP (S)	II	II	II	II	II
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)	1000	1000	1000	1000	1000
	CORRUGATED PE PIPE, TYPE S (S)*	X	X	X	X	X
	PROFILE WALL (RIBBED) PE PIPE (S)*					
	PROFILE WALL (CLOSED) PE PIPE (S)*					
	SMOOTH WALL PE PIPE (S)* / MAXIMUM DR			26	26	
	CORRUGATED PP PIPE (S)			X	X	
CLAY	PROFILE WALL PVC PIPE (S)			X	X	
	SMOOTH WALL PVC PIPE (S)*			X	X	
	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)	X	X	X	X	
	FULLY BIT. PAVED & LINED (S)					
	ZINC COATED (C)					
	ZINC COATED W/ BPI (C)					
	ALUM. COATED TYPE 2 (C)					
COR. ALUM. PIPE / PIPE-ARCH	POLYMER PRECOATED GALVANIZED (C)					
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)					
	CORRUGATED ALUM. ALLOY (C)					
	CORRUGATED ALUM. ALLOY W/ BPI (C)					
	ZINC COATED (SS)					
	ZINC COATED W/ BPI (SS)					
	ALUM. COATED TYPE 2 (SS)					
SPIRAL RIB STEEL PIPE	POLYMER PRECOATED GALVANIZED (SS)					
	STR. PLATE ALUMINUM ALLOY (C)					
	STR. PLATE ALUMINUM ALLOY W/ CFP (C)					
	STR. PLATE STEEL (C)					
	STR. PLATE STEEL W/ CFP (C)					
	CORR. PROFILE THICKNESS					
	CORR. PROFILE THICKNESS **					

LEGEND

PIPE MATERIAL
RCP Reinforced Concrete Pipe
RCHP Reinforced Concrete Horizontal Elliptical Pipe
PE Polyethylene
DR Dimension Ratio
PVC Polyvinyl Chloride
PP Polypropylene
CORR Corrugation
ALUM Aluminum
STR Structural
(LS) Lock Seam Pipe Required

PIPE PROTECTION
BPI Bituminous Paved Invert
CFP Concrete Field Paving
BIT Bituminous

SHAPE
CIR Circular Pipe
DEF Deformed Pipe

INTERIOR DESIGNATION
(S) Smooth Pipe Material
(C) Corrugated Pipe Material
(SS) Semi-Smooth Pipe Material

PIPE SIZE
Circular pipe is shown as diameter in inches
Deformed pipe is shown as area in square feet

* Refer to Standard Drawings 715-PHCL-20 through -22 for nominal diameter appropriate for pay item diameter.
** Tabulated thickness refers to top and side plates. For pipes and pipe-arches with a thickness less than .280 in., bottom plates shall be of next greater available thickness.



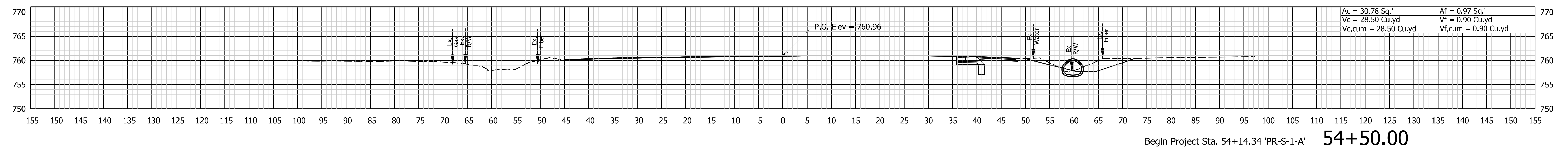
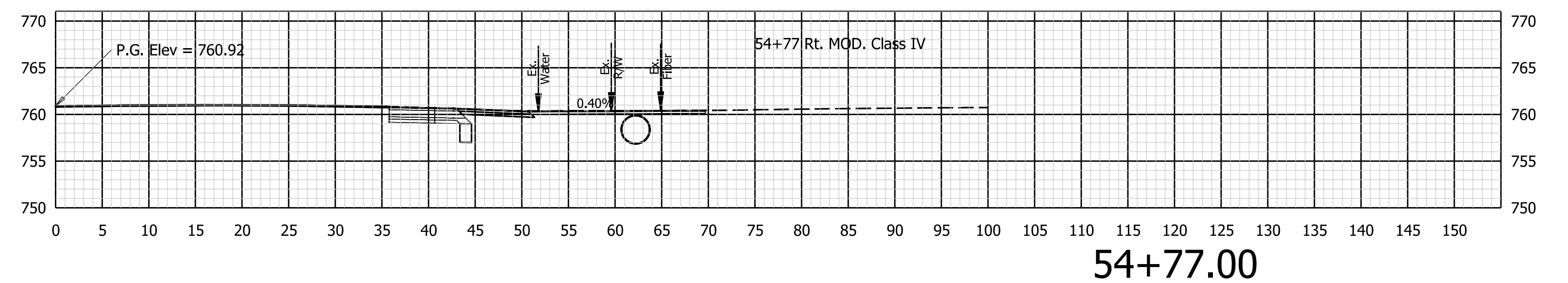
NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____ DATE _____
DESIGN ENGINEER _____
DESIGNED: JWH DRAWN: DPH
CHECKED: FS CHECKED: JWH

INDIANA DEPARTMENT OF TRANSPORTATION
PIPE MATERIALS TABLE

SCALE	ROAD FILE
	DESIGNATION
	1900107
SURVEY BOOK	SHEETS
ELECTRONIC	78 of 106
CONTRACT	PROJECT
R-42358	1900107

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CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA
DEPARTMENT OF TRANSPORTATION

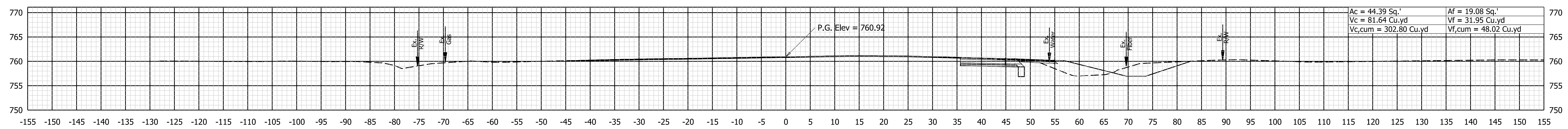
CROSS SECTIONS
LINE 'PR-S-1-A'

SCALE 1"=10'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 79 of 106
CONTRACT R-42358	PROJECT 1900107



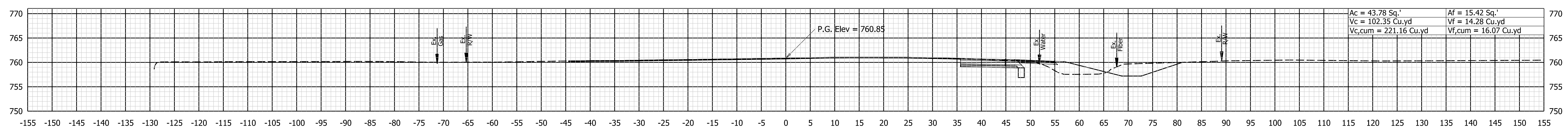
56+50.00

Ac = 41.45 Sq.'	Af = 22.00 Sq.'
Vc = 79.48 Cu.yd	Vf = 38.04 Cu.yd
Vc,cum = 382.28 Cu.yd	Vf,cum = 86.06 Cu.yd



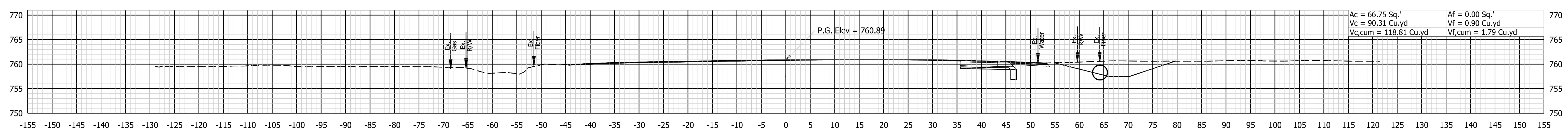
56+00.00

Ac = 44.39 Sq.'	Af = 19.08 Sq.'
Vc = 81.64 Cu.yd	Vf = 31.95 Cu.yd
Vc,cum = 302.80 Cu.yd	Vf,cum = 48.02 Cu.yd



55+50.00

Ac = 43.78 Sq.'	Af = 15.42 Sq.'
Vc = 102.35 Cu.yd	Vf = 14.28 Cu.yd
Vc,cum = 221.16 Cu.yd	Vf,cum = 16.07 Cu.yd



55+00.00

Ac = 66.75 Sq.'	Af = 0.00 Sq.'
Vc = 90.31 Cu.yd	Vf = 0.90 Cu.yd
Vc,cum = 118.81 Cu.yd	Vf,cum = 1.79 Cu.yd

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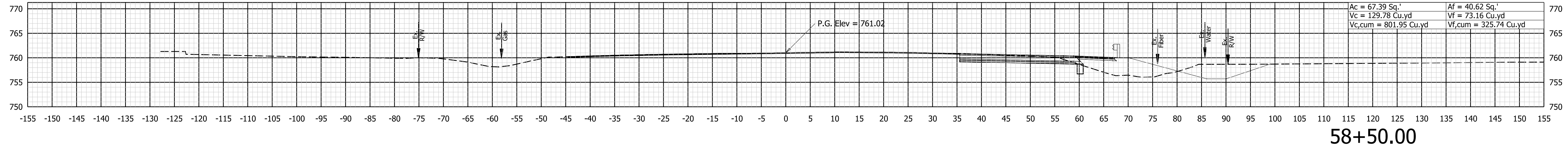


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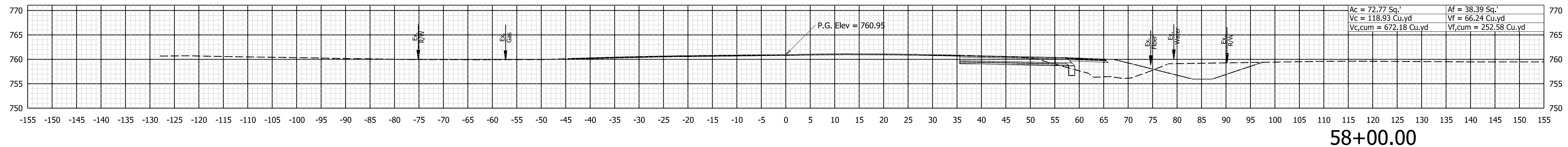
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS LINE 'PR-S-1-A'

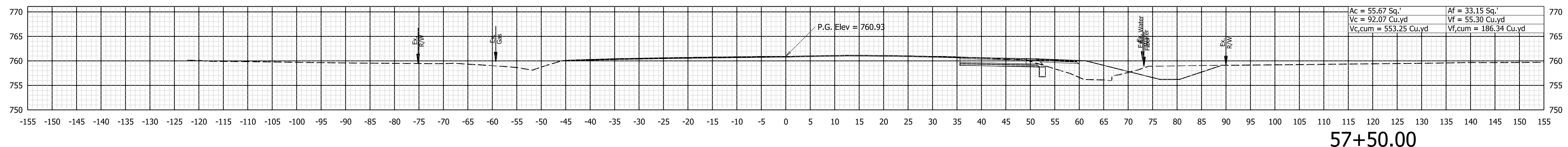
SCALE 1"=10'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 80 of 106
CONTRACT R-42358	PROJECT 1900107



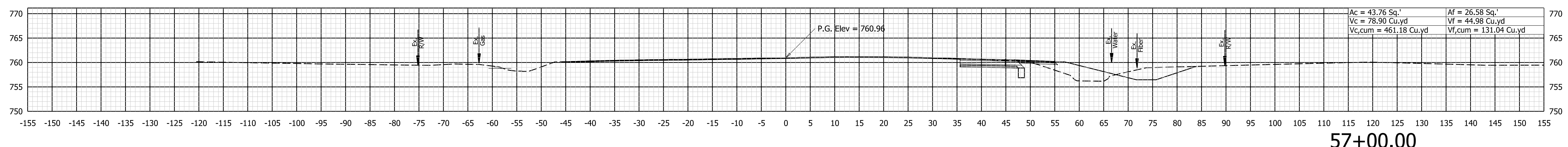
58+50.00



58+00.00



57+50.00



57+00.00

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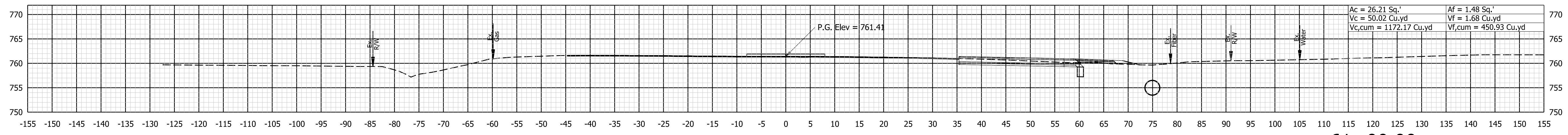
NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION

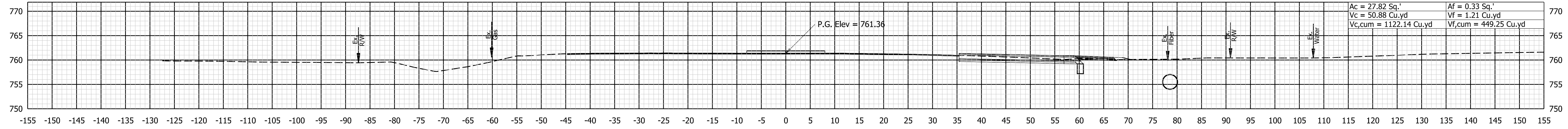
CROSS SECTIONS LINE 'PR-S-1-A'

SCALE 1"=10'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 81 of 106
CONTRACT R-42358	PROJECT 1900107



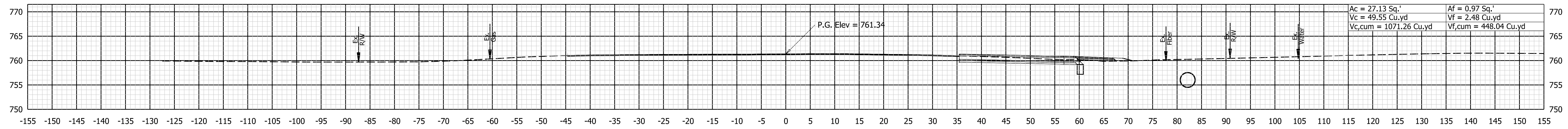
61+00.00

Ac = 26.21 Sq.'	Af = 1.48 Sq.'
Vc = 50.02 Cu.yd	Vf = 1.68 Cu.yd
Vc,cum = 1172.17 Cu.yd	Vf,cum = 450.93 Cu.yd



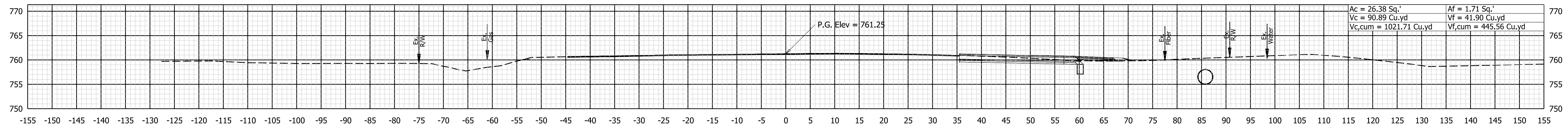
60+50.00

Ac = 27.82 Sq.'	Af = 0.33 Sq.'
Vc = 50.88 Cu.yd	Vf = 1.21 Cu.yd
Vc,cum = 1122.14 Cu.yd	Vf,cum = 449.25 Cu.yd



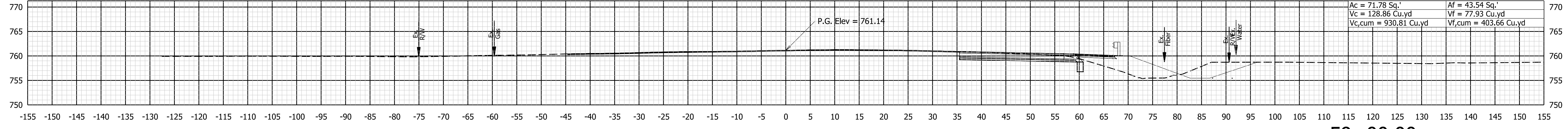
60+00.00

Ac = 27.13 Sq.'	Af = 0.97 Sq.'
Vc = 49.55 Cu.yd	Vf = 2.48 Cu.yd
Vc,cum = 1071.26 Cu.yd	Vf,cum = 448.04 Cu.yd



59+50.00

Ac = 26.38 Sq.'	Af = 1.71 Sq.'
Vc = 90.89 Cu.yd	Vf = 41.90 Cu.yd
Vc,cum = 1021.71 Cu.yd	Vf,cum = 445.56 Cu.yd



59+00.00

Ac = 71.78 Sq.'	Af = 43.54 Sq.'
Vc = 128.86 Cu.yd	Vf = 77.93 Cu.yd
Vc,cum = 930.81 Cu.yd	Vf,cum = 403.66 Cu.yd

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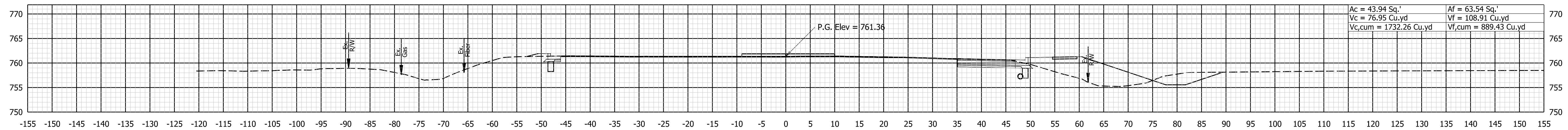


NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

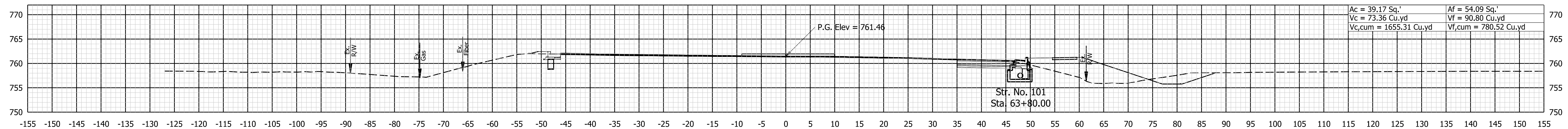
INDIANA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
LINE 'PR-S-1-A'

SCALE 1"=10'	ROAD FILE
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 82 of 106
CONTRACT R-42358	PROJECT 1900107



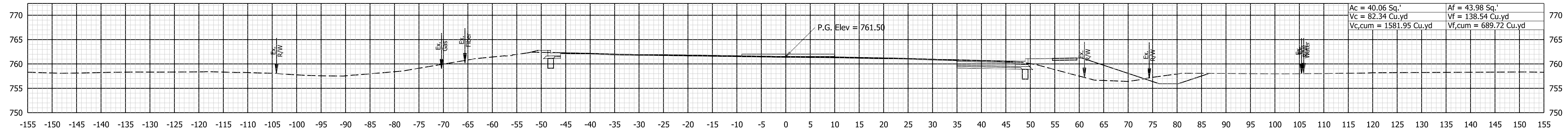
64+50.00

Ac = 43.94 Sq.'	Af = 63.54 Sq.'
Vc = 76.95 Cu.yd	Vf = 108.91 Cu.yd
Vc,cum = 1732.26 Cu.yd	Vf,cum = 889.43 Cu.yd



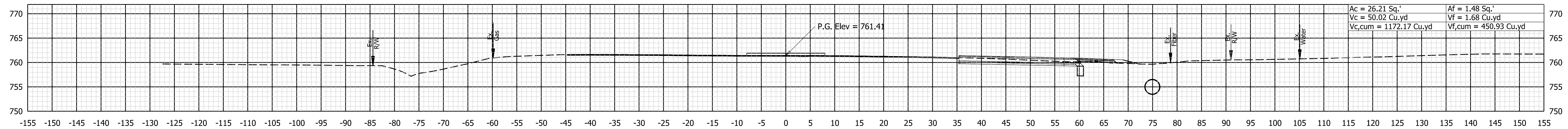
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Ac = 39.17 Sq.'	Af = 54.09 Sq.'
Vc = 73.36 Cu.yd	Vf = 90.80 Cu.yd
Vc,cum = 1655.31 Cu.yd	Vf,cum = 780.52 Cu.yd



63+50.00

Ac = 40.06 Sq.'	Af = 43.98 Sq.'
Vc = 82.34 Cu.yd	Vf = 138.54 Cu.yd
Vc,cum = 1581.95 Cu.yd	Vf,cum = 689.72 Cu.yd



61+00.00

Ac = 26.21 Sq.'	Af = 1.48 Sq.'
Vc = 50.02 Cu.yd	Vf = 1.68 Cu.yd
Vc,cum = 1172.17 Cu.yd	Vf,cum = 450.93 Cu.yd

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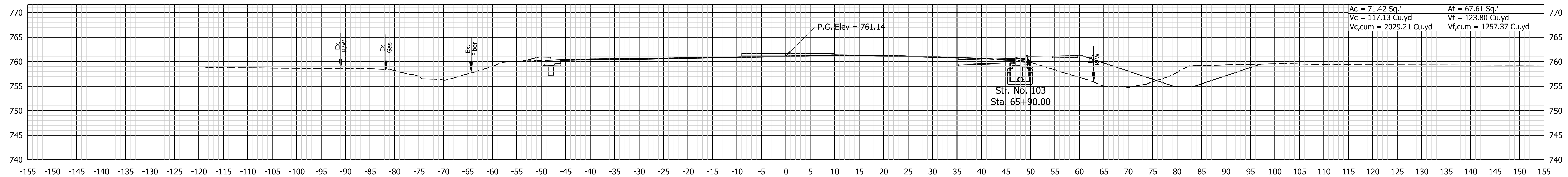
NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

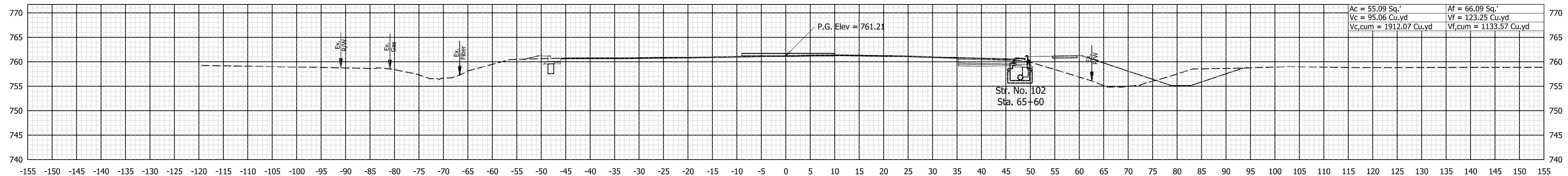
INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE 'PR-S-1-A'

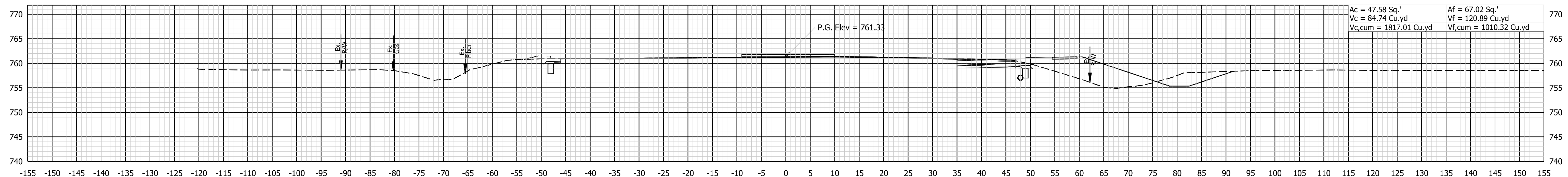
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	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 83 of 106
CONTRACT R-42358	PROJECT 1900107



66+00.00



65+50.00



65+00.00

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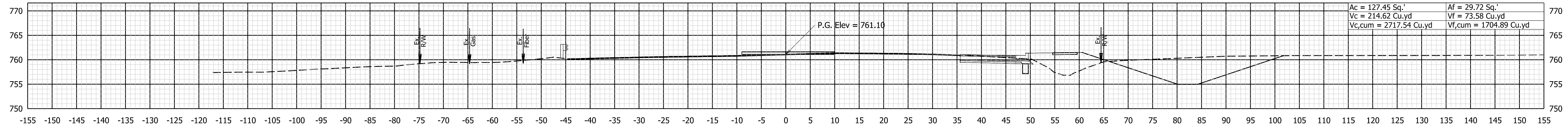
NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

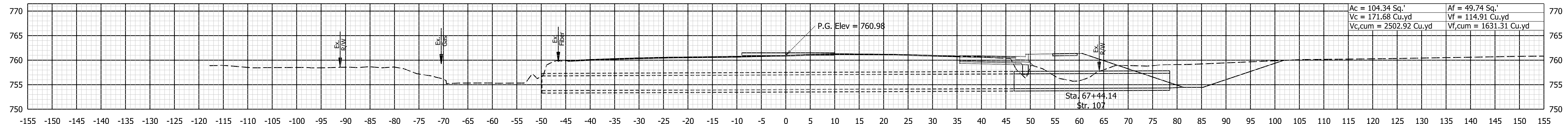
INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS LINE 'PR-S-1-A'

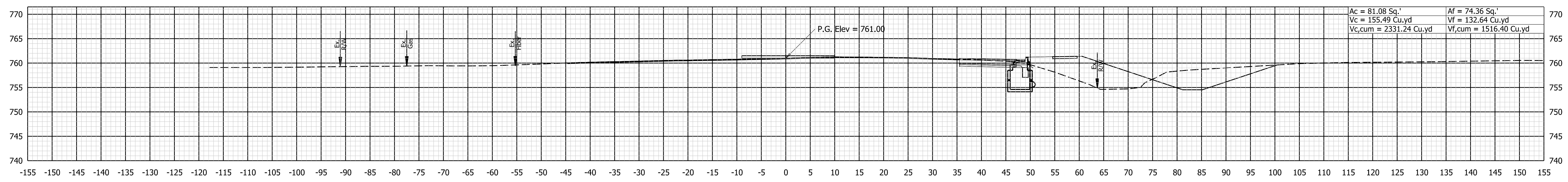
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SURVEY BOOK ELECTRONIC	SHEETS 84 of 106
CONTRACT R-42358	PROJECT 1900107



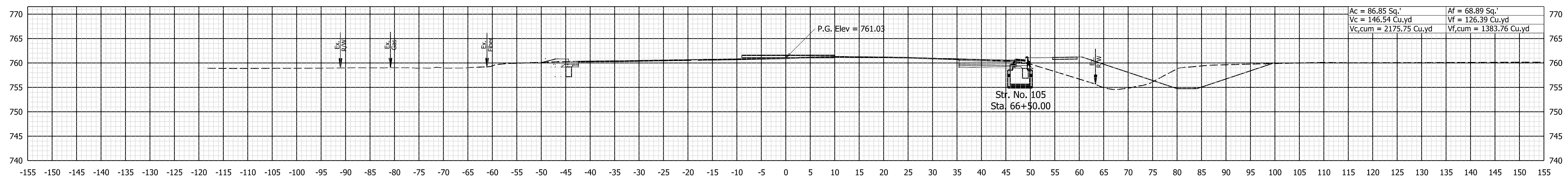
68+00.00



67+50.00



67+00.00



66+50.00

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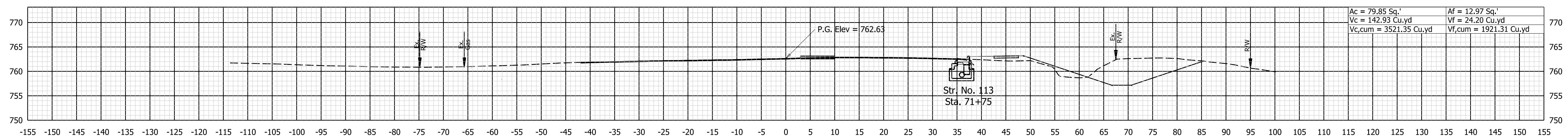
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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS LINE 'PR-S-1-A'

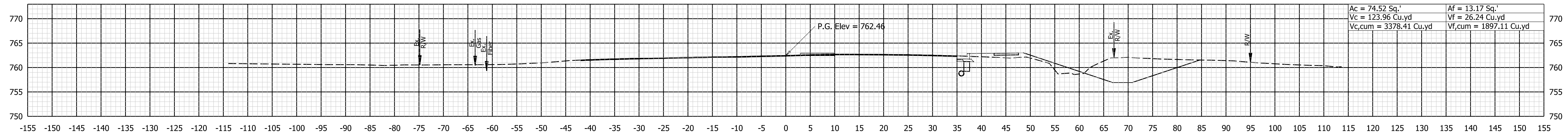
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	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 85 of 106
CONTRACT R-42358	PROJECT 1900107

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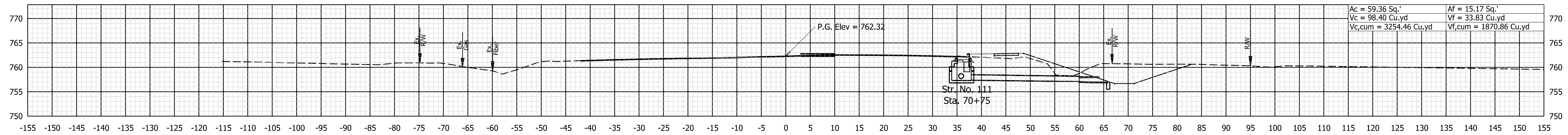
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Vc = 142.93 Cu.yd	Vf = 24.20 Cu.yd
Vc,cum = 3521.35 Cu.yd	Vf,cum = 1921.31 Cu.yd

72+00.00



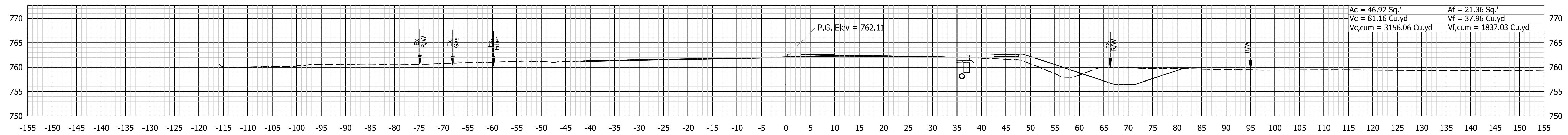
Ac = 74.52 Sq.'	Af = 13.17 Sq.'
Vc = 123.96 Cu.yd	Vf = 26.24 Cu.yd
Vc,cum = 3378.41 Cu.yd	Vf,cum = 1897.11 Cu.yd

71+50.00



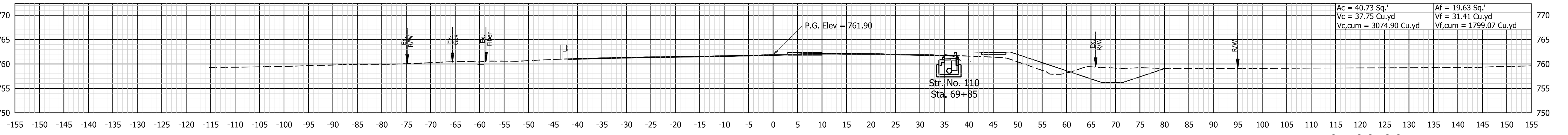
Ac = 59.36 Sq.'	Af = 15.17 Sq.'
Vc = 98.40 Cu.yd	Vf = 33.83 Cu.yd
Vc,cum = 3254.46 Cu.yd	Vf,cum = 1870.86 Cu.yd

71+00.00



Ac = 46.92 Sq.'	Af = 21.36 Sq.'
Vc = 81.16 Cu.yd	Vf = 37.96 Cu.yd
Vc,cum = 3156.06 Cu.yd	Vf,cum = 1837.03 Cu.yd

70+50.00



Ac = 40.73 Sq.'	Af = 19.63 Sq.'
Vc = 37.75 Cu.yd	Vf = 31.41 Cu.yd
Vc,cum = 3074.90 Cu.yd	Vf,cum = 1799.07 Cu.yd

70+00.00



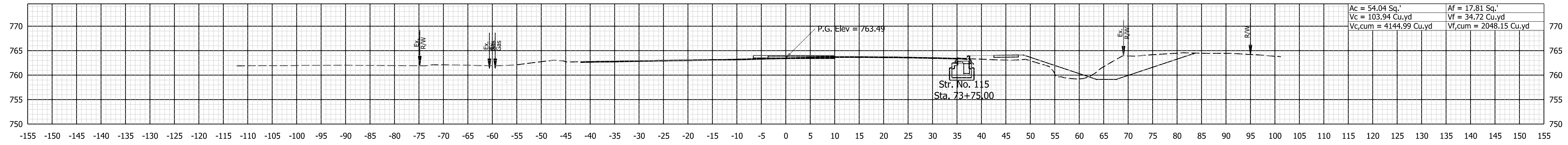
NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION

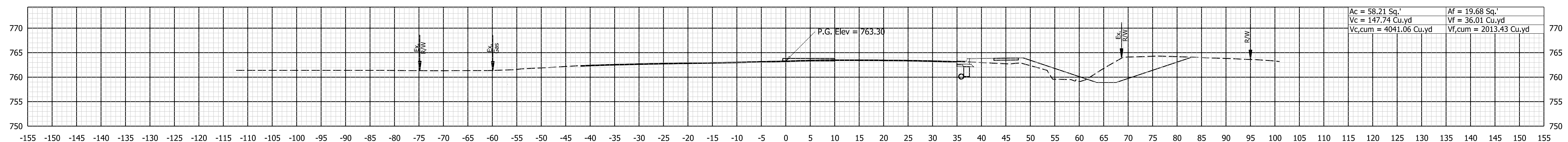
CROSS SECTIONS
LINE 'PR-S-1-A'

SCALE 1"=10'	ROAD FILE
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 86 of 106
CONTRACT R-42358	PROJECT 1900107



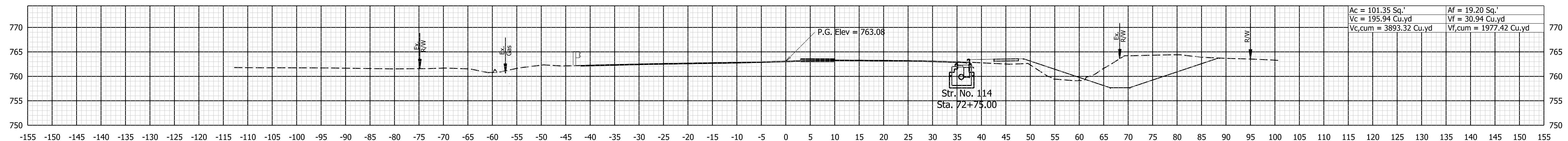
Ac = 54.04 Sq.'	Af = 17.81 Sq.'
Vc = 103.94 Cu.yd	Vf = 34.72 Cu.yd
Vc,cum = 4144.99 Cu.yd	Vf,cum = 2048.15 Cu.yd

74+00.00



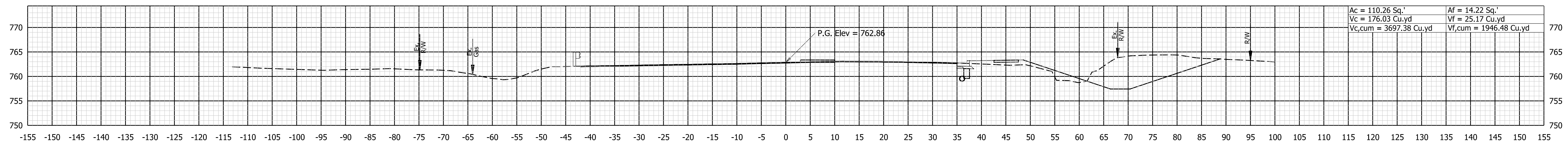
Ac = 58.21 Sq.'	Af = 19.68 Sq.'
Vc = 147.74 Cu.yd	Vf = 36.01 Cu.yd
Vc,cum = 4041.06 Cu.yd	Vf,cum = 2013.43 Cu.yd

73+50.00



Ac = 101.35 Sq.'	Af = 19.20 Sq.'
Vc = 195.94 Cu.yd	Vf = 30.94 Cu.yd
Vc,cum = 3893.32 Cu.yd	Vf,cum = 1977.42 Cu.yd

73+00.00



Ac = 110.26 Sq.'	Af = 14.22 Sq.'
Vc = 176.03 Cu.yd	Vf = 25.17 Cu.yd
Vc,cum = 3697.38 Cu.yd	Vf,cum = 1946.48 Cu.yd

72+50.00

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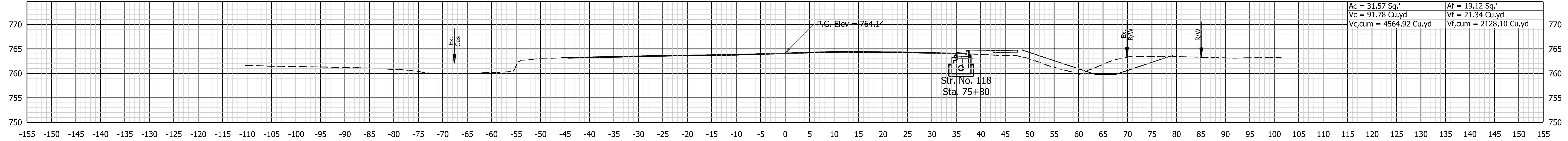
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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
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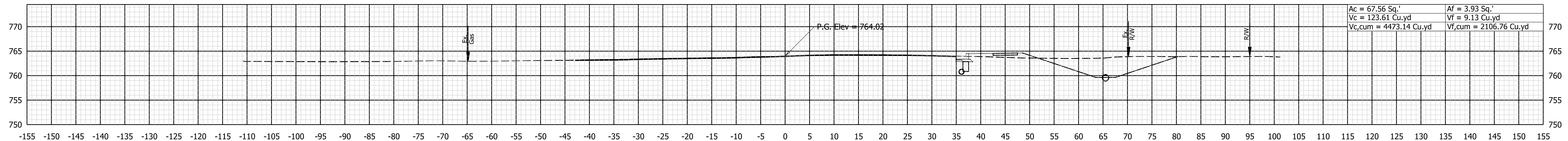
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE 'PR-S-1-A'

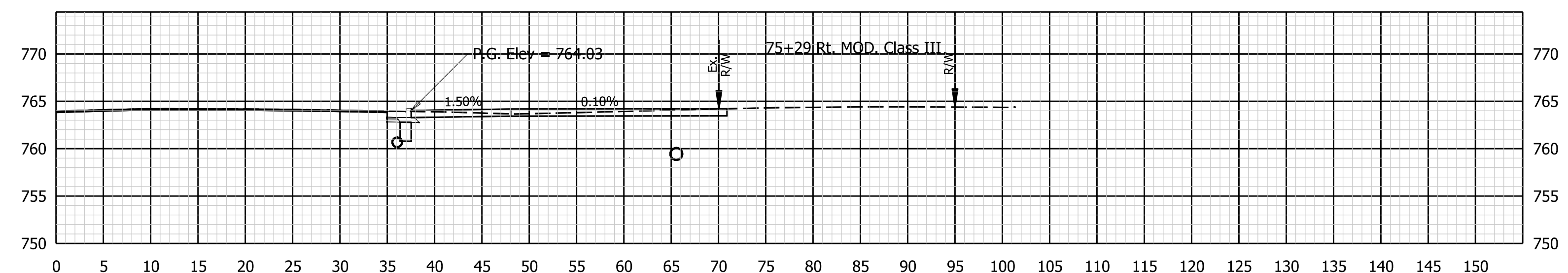
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	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 87 of 106
CONTRACT R-42358	PROJECT 1900107



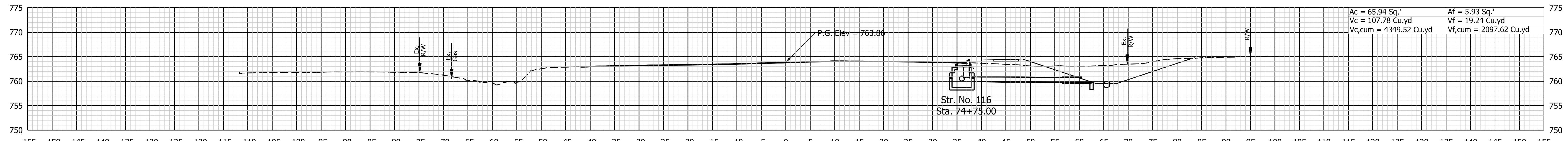
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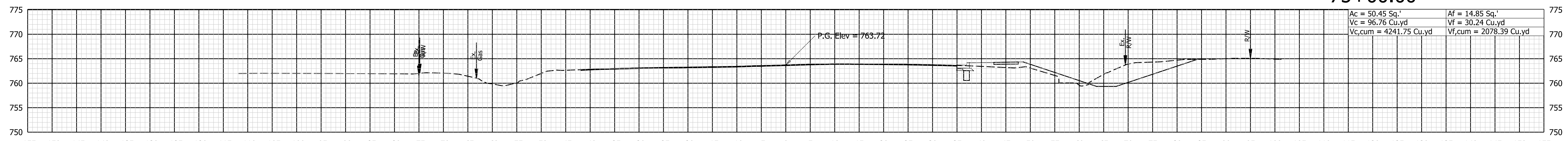
75+50.00



75+29.00



75+00.00



74+50.00

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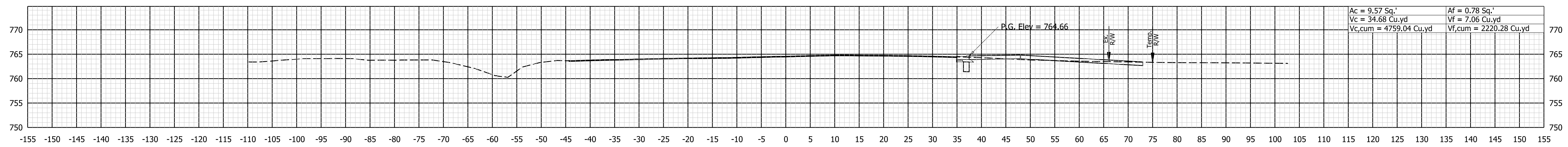


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DLZ INDIANA, LLC

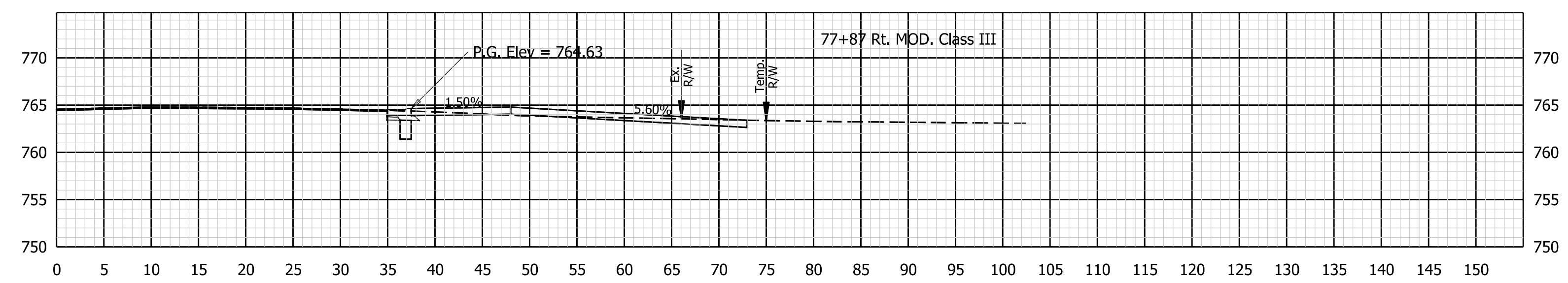
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
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INDIANA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
LINE 'PR-S-1-A'

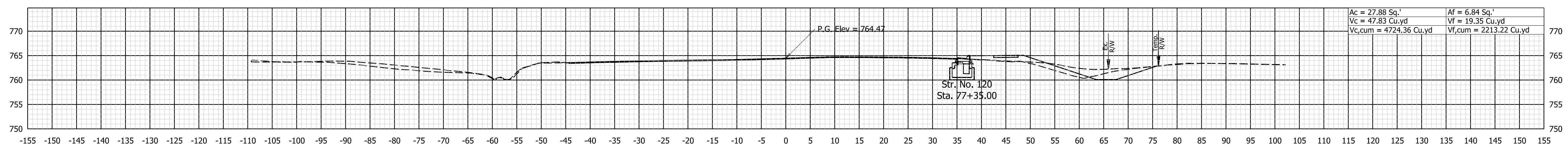
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SURVEY BOOK ELECTRONIC	SHEETS 88 of 106
CONTRACT R-42358	PROJECT 1900107



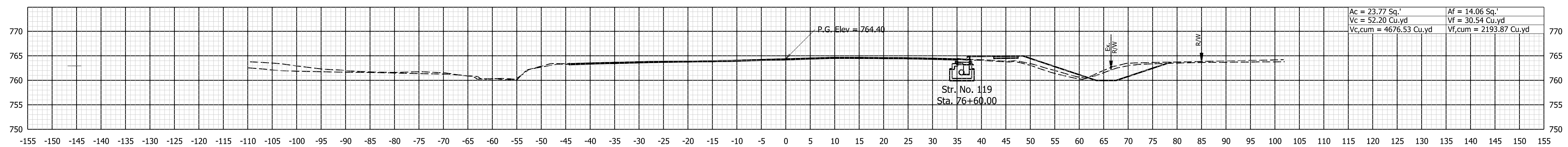
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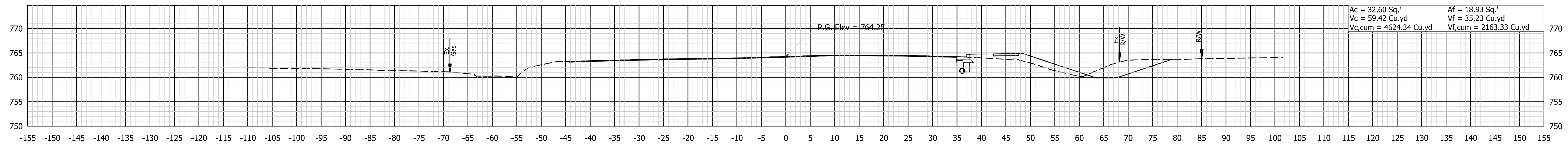
77+86.64



77+50.00



77+00.00



76+50.00

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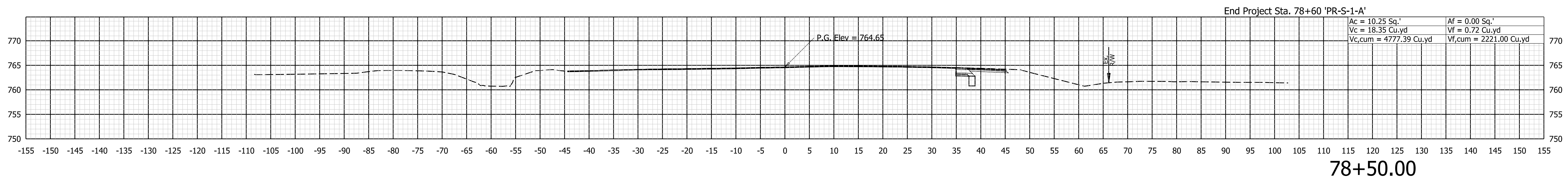
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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
LINE 'PR-S-1-A'

SCALE 1"=10'	ROAD FILE
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 89 of 106
CONTRACT R-42358	PROJECT 1900107

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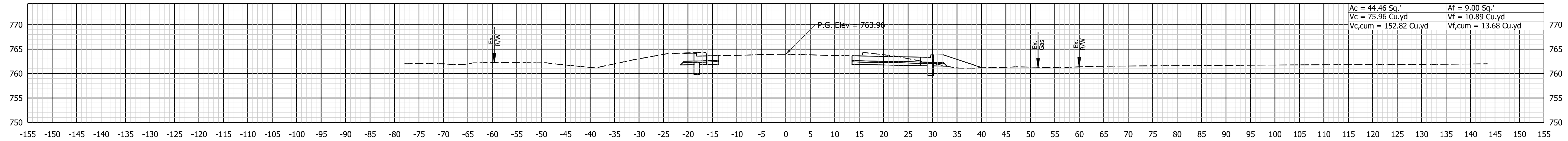
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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____ DATE _____
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CHECKED: FS	CHECKED: JWH

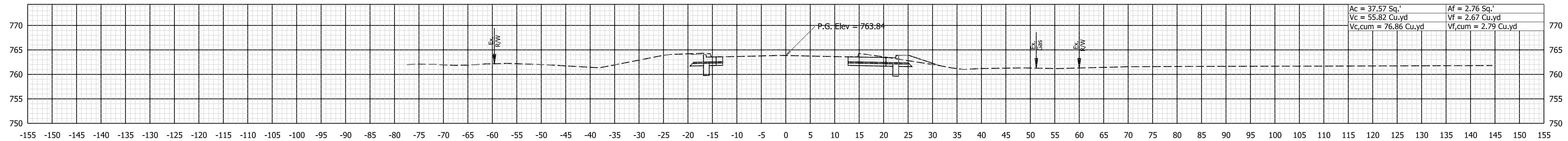
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CROSS SECTIONS
LINE 'PR-S-1-A'

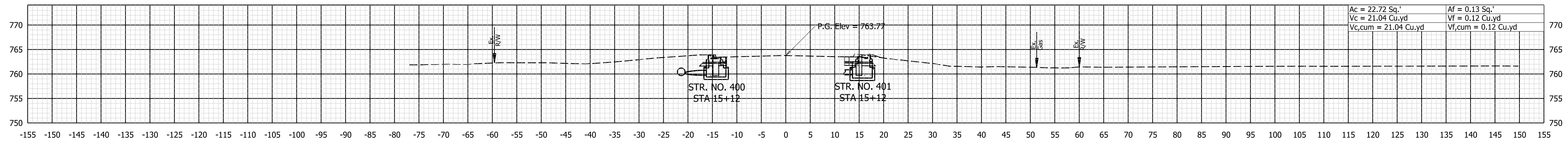
SCALE 1"=10'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 90 of 106
CONTRACT R-42358	PROJECT 1900107



16+00.00



15+50.00



BEGIN CONSTRUCTION STA. 14+93.15 'PR-A'

15+00.00

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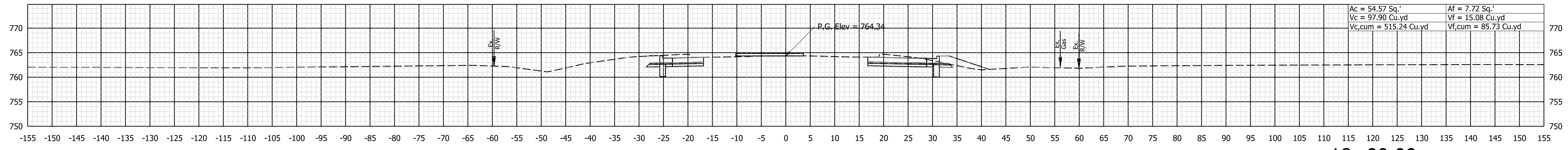
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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
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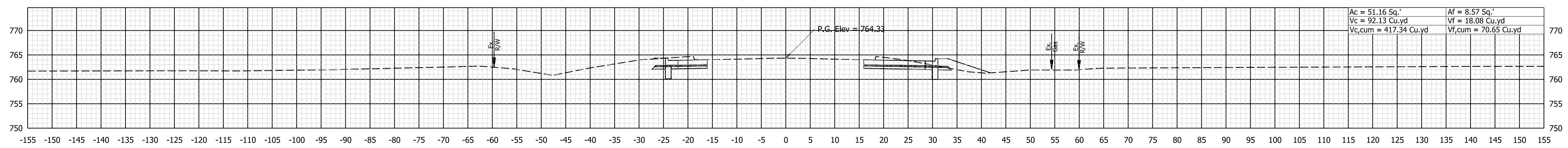
INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS LINE 'PR-A'

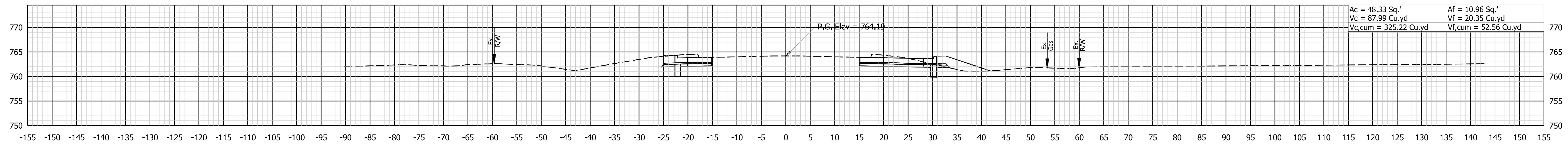
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SURVEY BOOK ELECTRONIC	SHEETS 91 of 106
CONTRACT R-42358	PROJECT 1900107



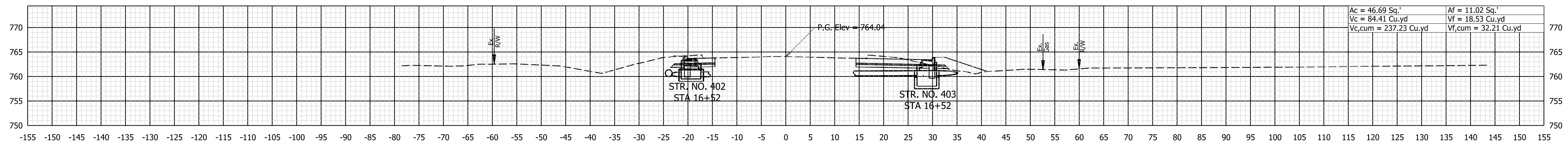
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17+50.00



17+00.00



16+50.00

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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

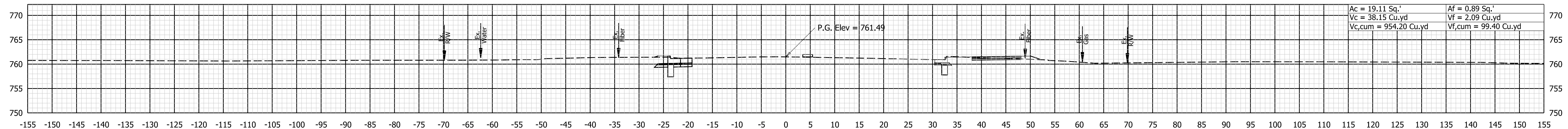
INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS LINE 'PR-A'

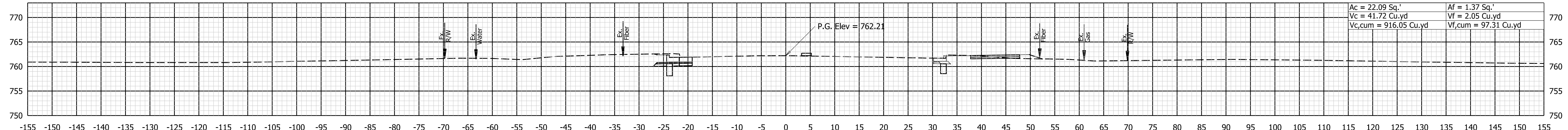
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SURVEY BOOK ELECTRONIC	SHEETS 92 of 106
CONTRACT R-42358	PROJECT 1900107



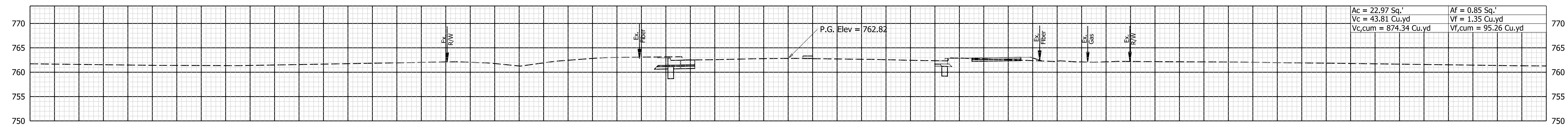
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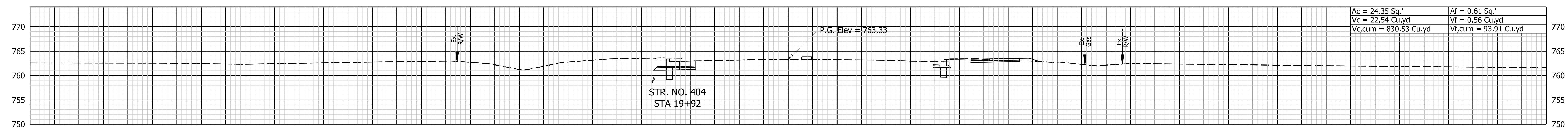
21+50.00



21+00.00



20+50.00



20+00.00

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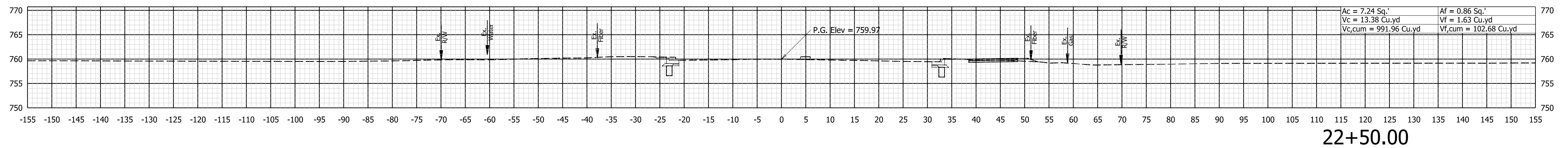
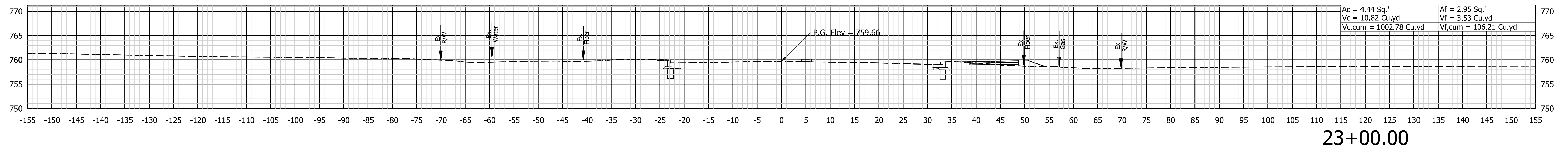
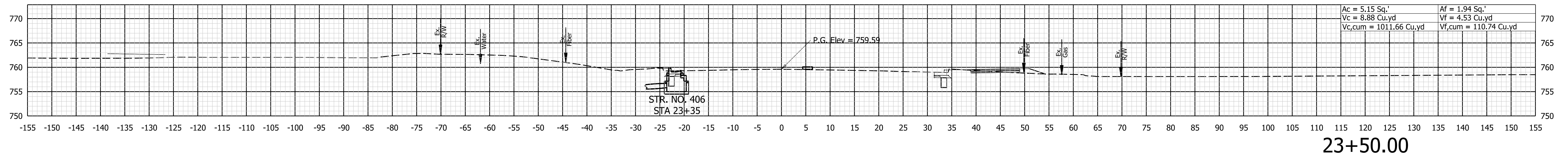


NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS LINE 'PR-A'

SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 93 of 106
CONTRACT R-42358	PROJECT 1900107



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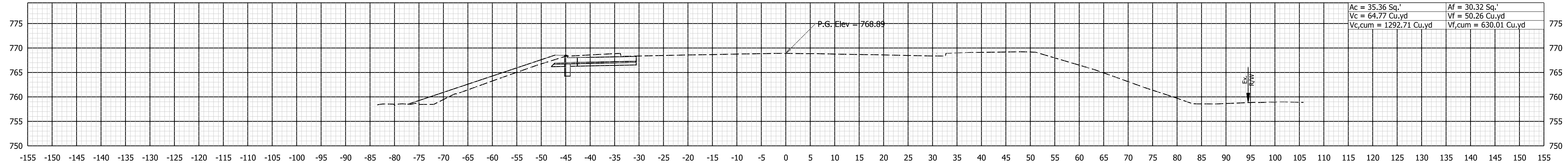
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DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
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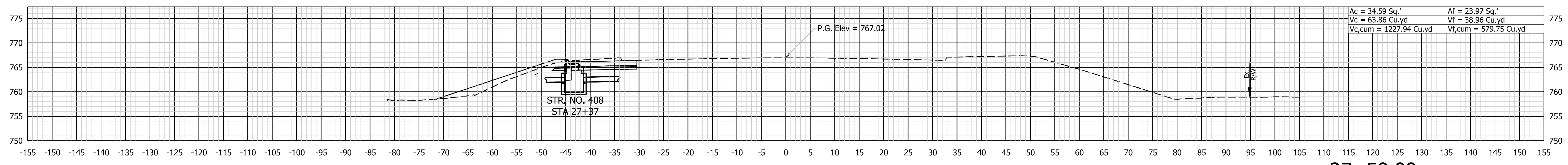
INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS LINE 'PR-A'

SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 94 of 106
CONTRACT R-42358	PROJECT 1900107

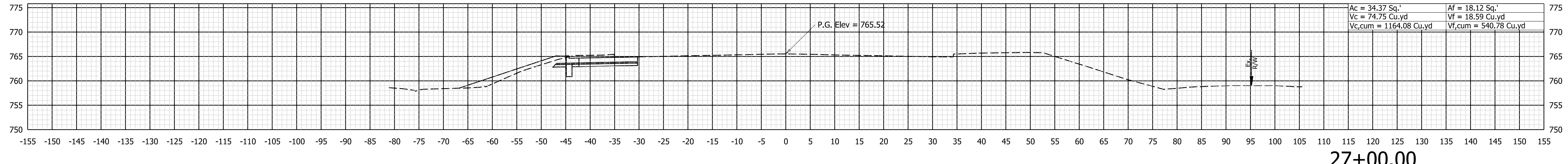


28+00.00

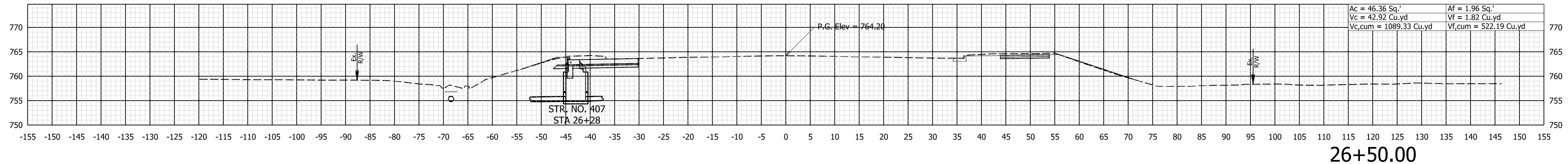


27+50.00

STR. NO. 408
STA 27+37



27+00.00



26+50.00

STR. NO. 407
STA 26+28

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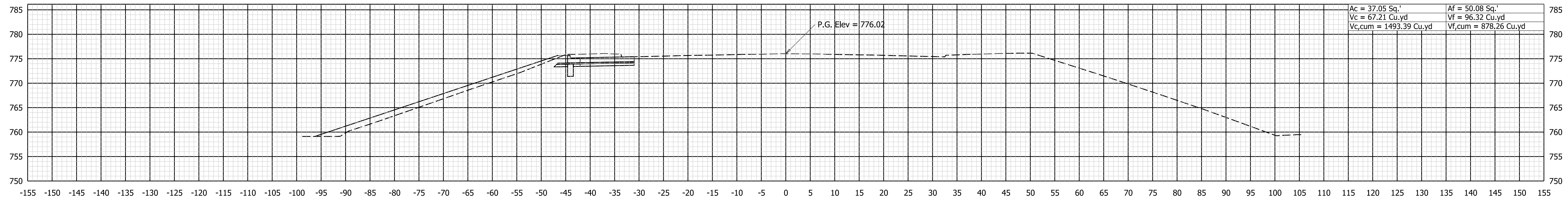
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CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
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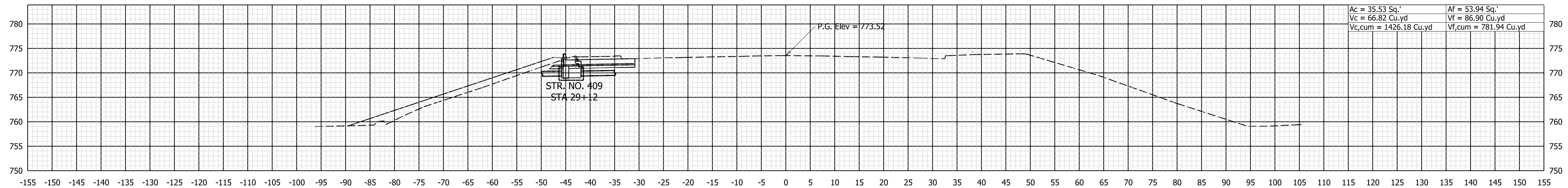
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE 'PR-A'

SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 95 of 106
CONTRACT R-42358	PROJECT 1900107

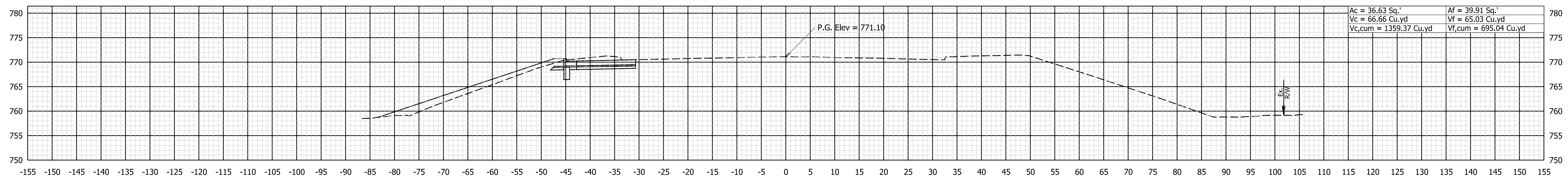


29+50.00



29+00.00

STR. NO. 409
STA 29+12



28+50.00

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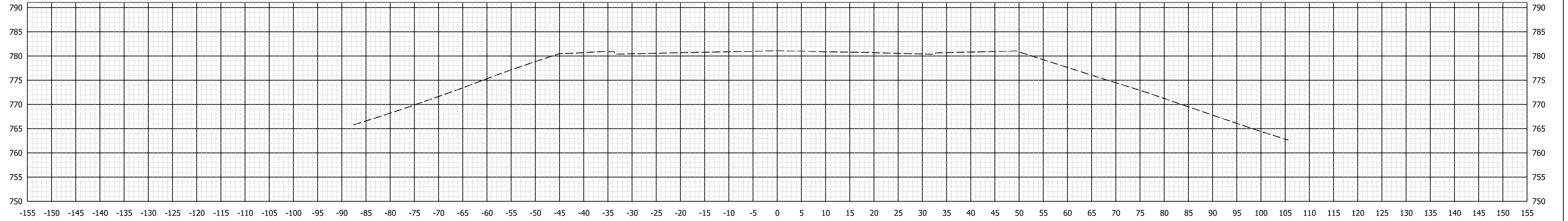
NOT FOR
CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

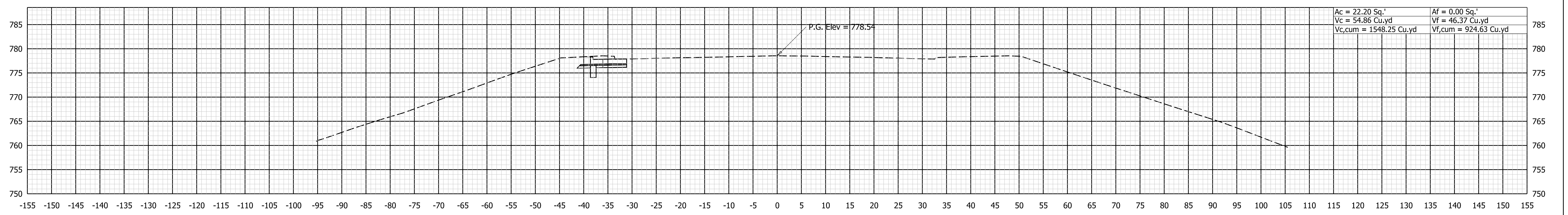
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE 'PR-A'

SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 96 of 106
CONTRACT R-42358	PROJECT 1900107



END CONSTRUCTION STA 30+40.00 'PR-A' **30+50.00**



Ac = 22.20 Sq.'	Af = 0.00 Sq.'
Vc = 54.86 Cu.yd	Vf = 46.37 Cu.yd
Vc,cum = 1548.25 Cu.yd	Vf,cum = 924.63 Cu.yd

30+00.00

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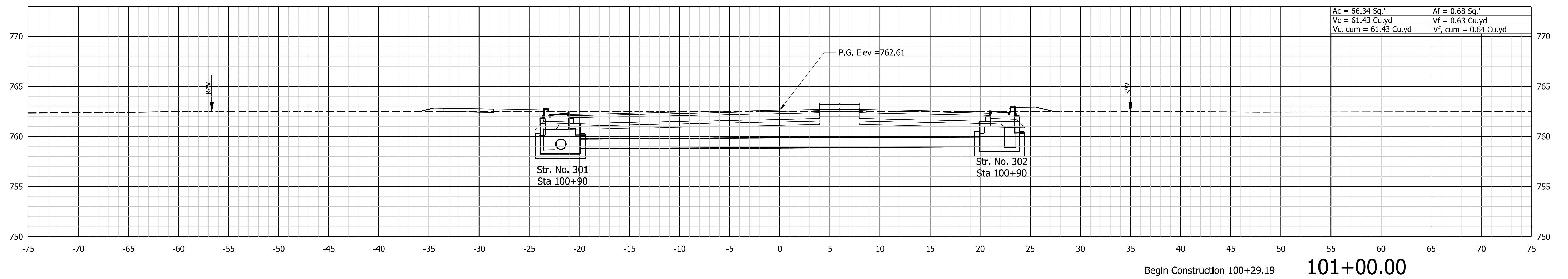
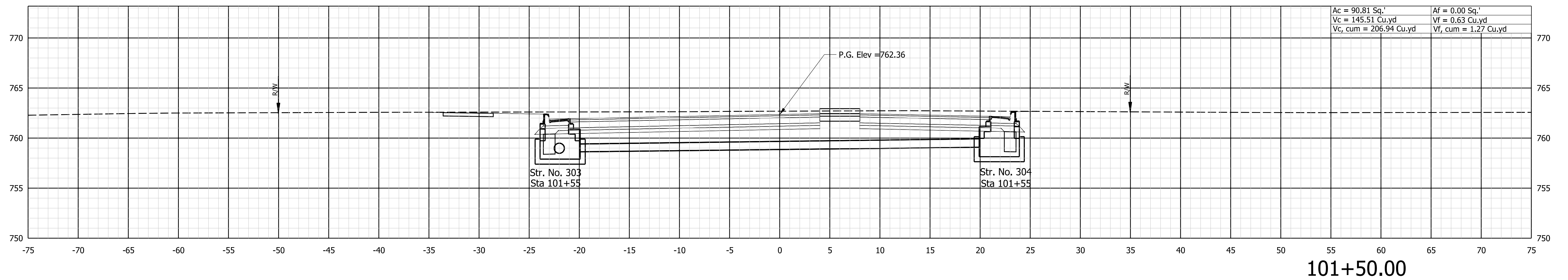
NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS LINE 'PR-A'

SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 97 of 106
CONTRACT R-42358	PROJECT 1900107

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DLZ INDIANA, LLC

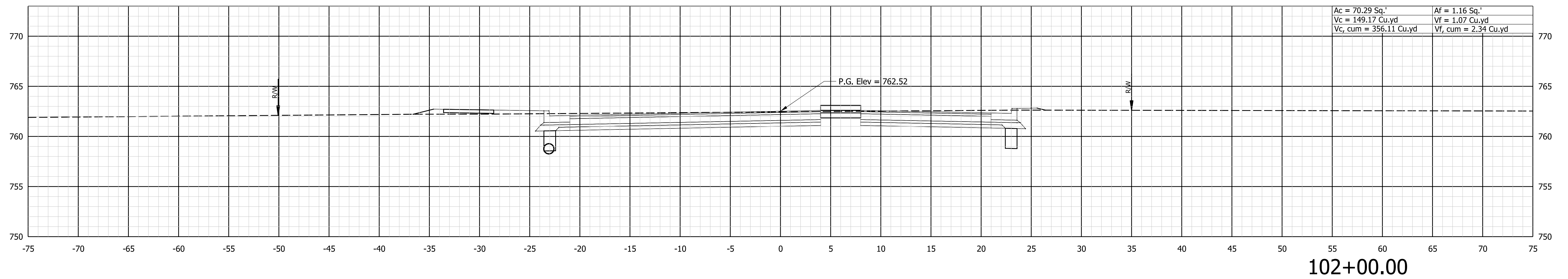
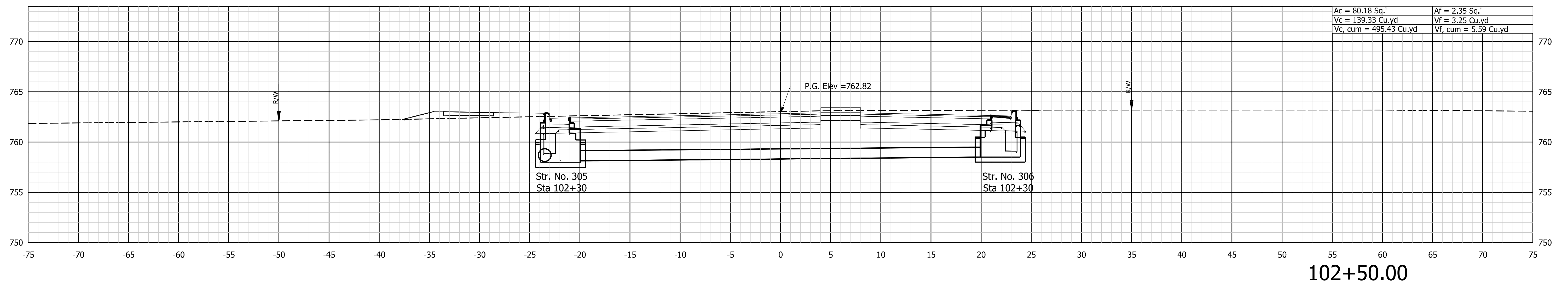
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	DESIGNED: JWH DRAWN: DPH CHECKED: FS CHECKED: JWH
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INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE 'PR-C'

SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 98 of 106
CONTRACT R-42358	PROJECT 1900107

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DLZ INDIANA, LLC

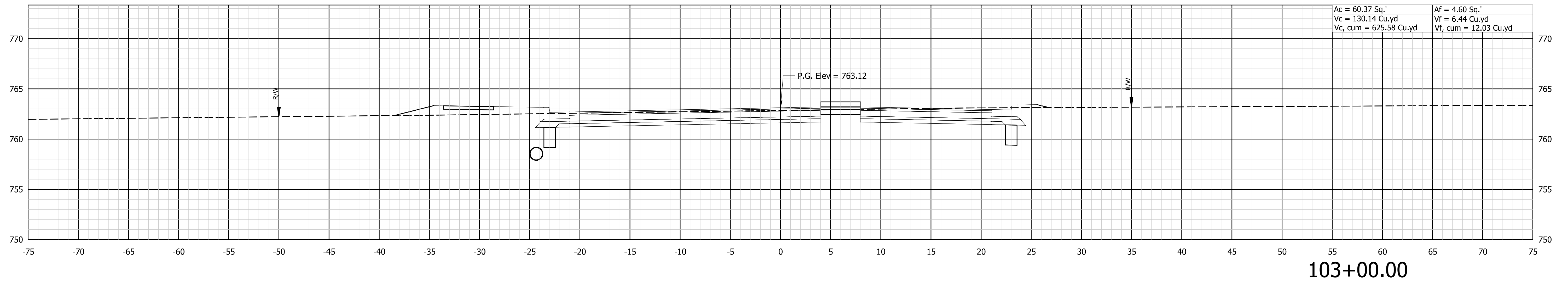
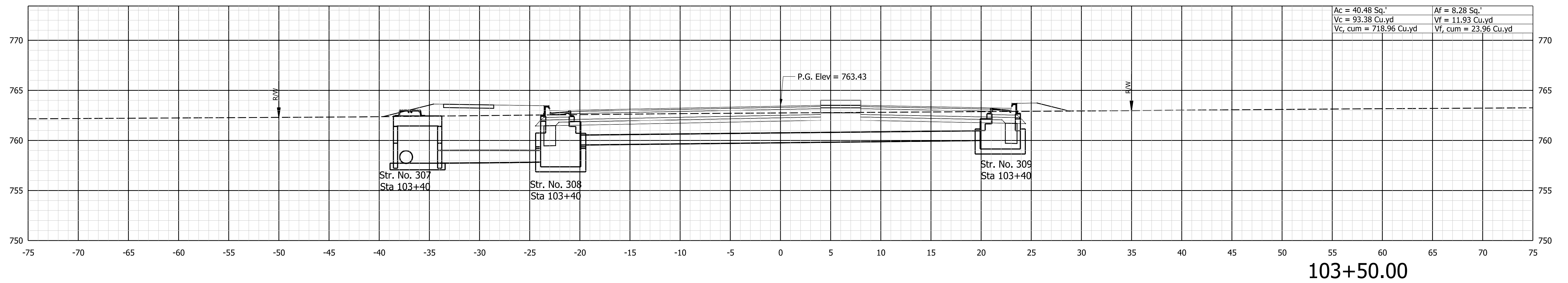
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE 'PR-C'

SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 99 of 106
CONTRACT R-42358	PROJECT 1900107

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DLZ INDIANA, LLC

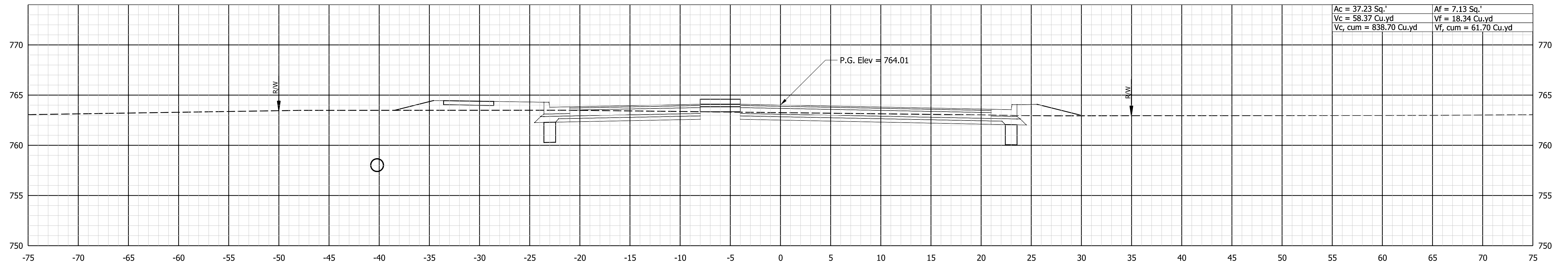
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	DESIGNED: JWH DRAWN: DPH CHECKED: FS CHECKED: JWH
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INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE 'PR-C'

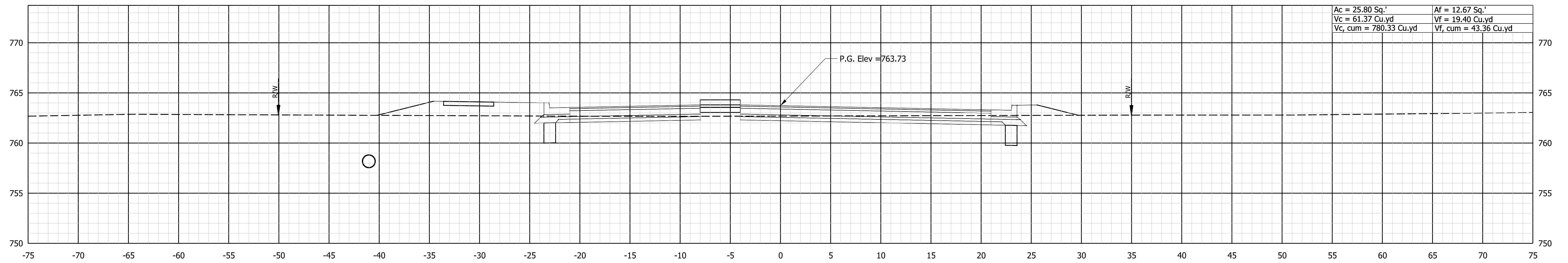
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DESIGNATION 1900107		
SURVEY BOOK ELECTRONIC	100	SHEETS of 106
CONTRACT R-42358		PROJECT 1900107

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Ac = 37.23 Sq.'	Af = 7.13 Sq.'
Vc = 58.37 Cu.yd	Vf = 18.34 Cu.yd
Vc_cum = 838.70 Cu.yd	Vf_cum = 61.70 Cu.yd

104+50.00



Ac = 25.80 Sq.'	Af = 12.67 Sq.'
Vc = 61.37 Cu.yd	Vf = 19.40 Cu.yd
Vc_cum = 780.33 Cu.yd	Vf_cum = 43.36 Cu.yd

104+00.00



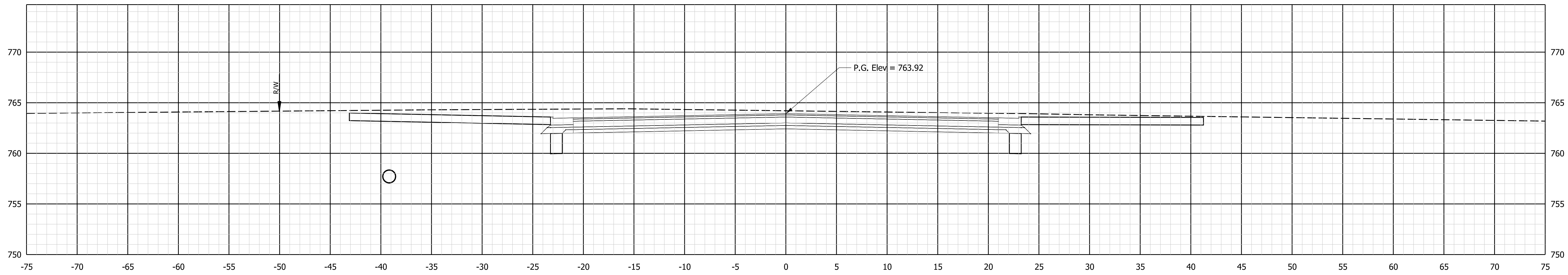
NOT FOR
CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

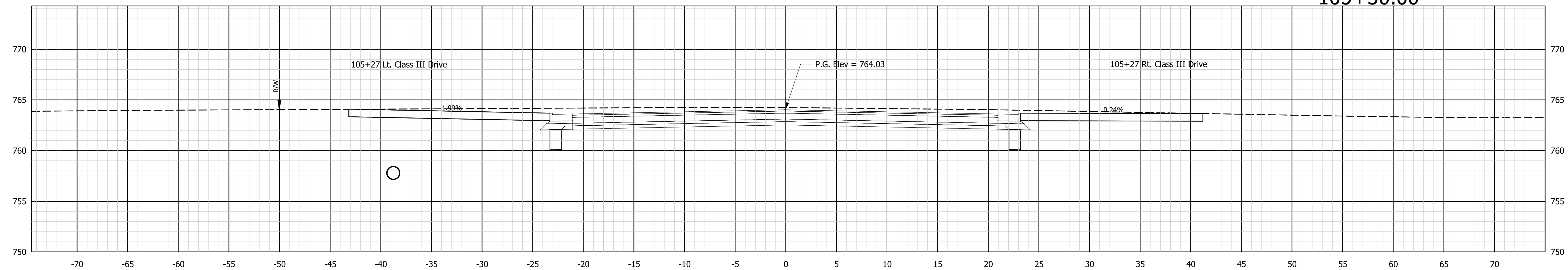
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE 'PR-C'

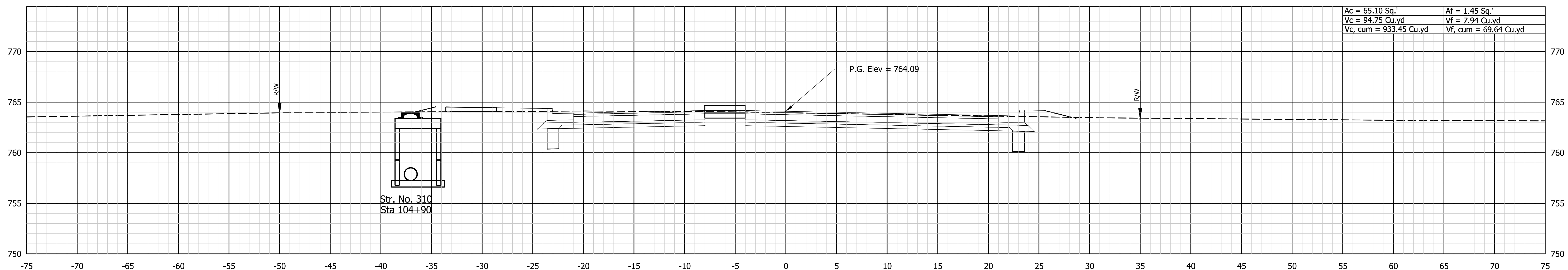
SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 101 of 106
CONTRACT R-42358	PROJECT 1900107



105+50.00



105+27.00



105+00.00

Ac = 65.10 Sq.'	Af = 1.45 Sq.'
Vc = 94.75 Cu.yd	Vf = 7.94 Cu.yd
Vc, cum = 933.45 Cu.yd	Vf, cum = 69.64 Cu.yd

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DLZ INDIANA, LLC

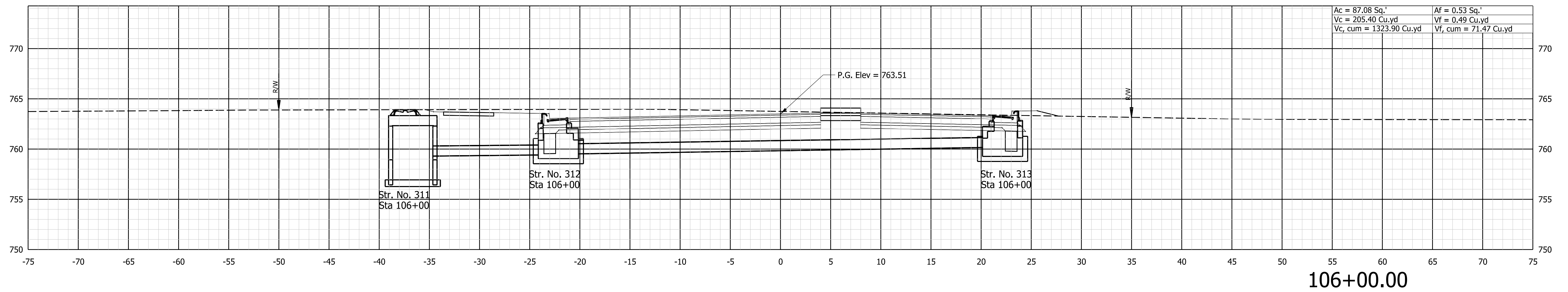
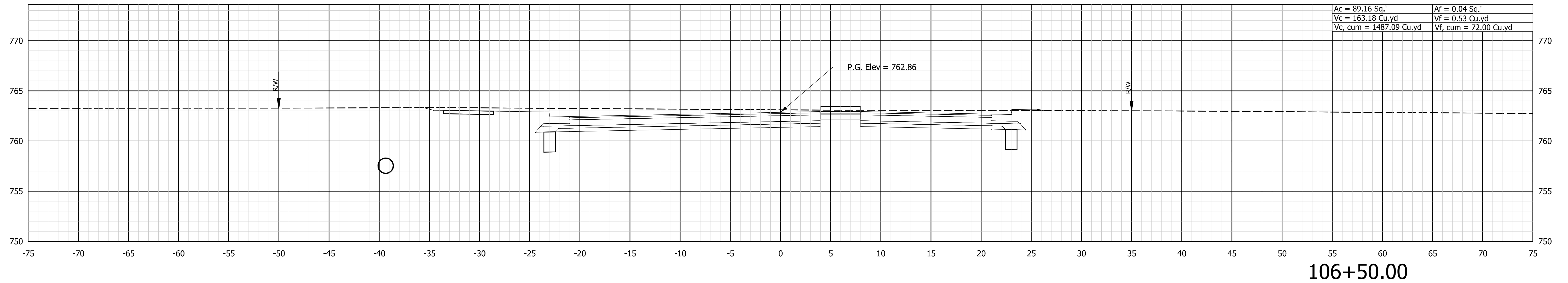
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS LINE 'PR-C'

SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 102 of 106
CONTRACT R-42358	PROJECT 1900107

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NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

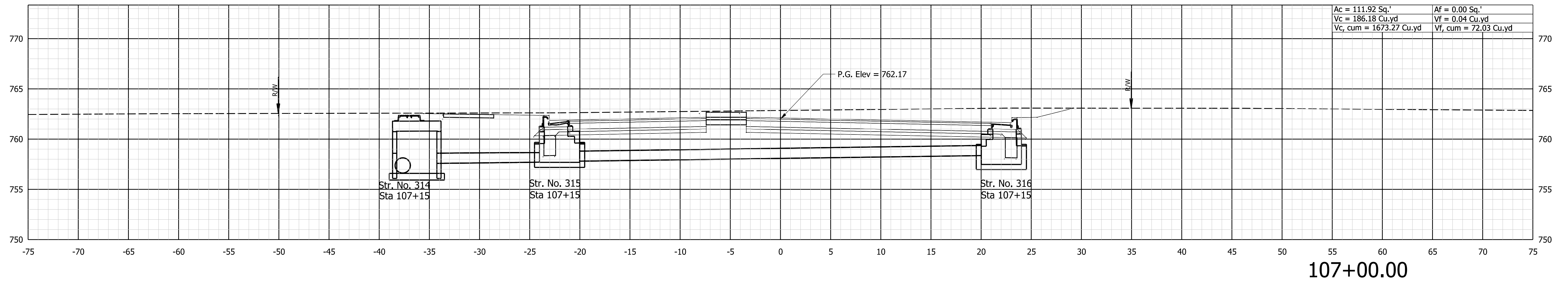
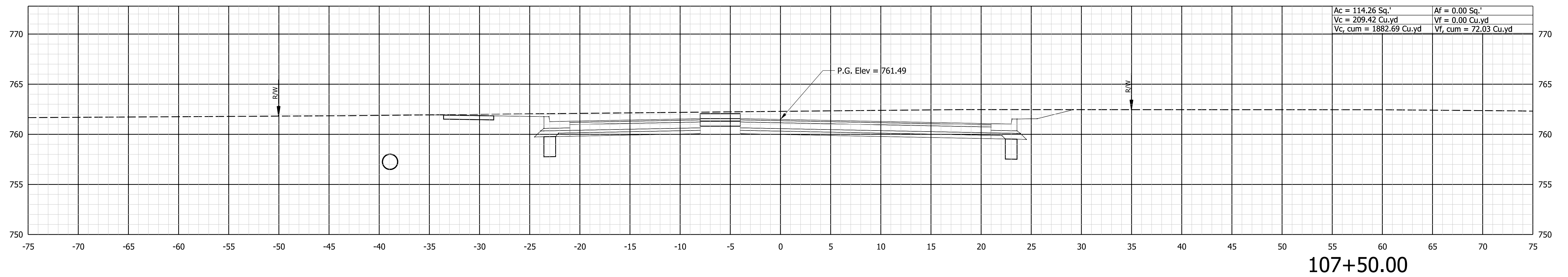
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS LINE 'PR-C'

SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 103 of 106
CONTRACT R-42358	PROJECT 1900107

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CONSTRUCTION
DLZ INDIANA, LLC

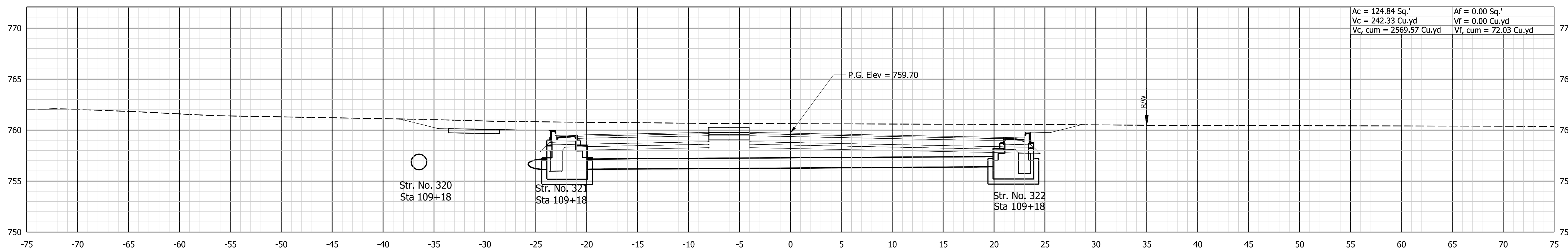
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
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CHECKED: FS	CHECKED: JWH	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE 'PR-C'

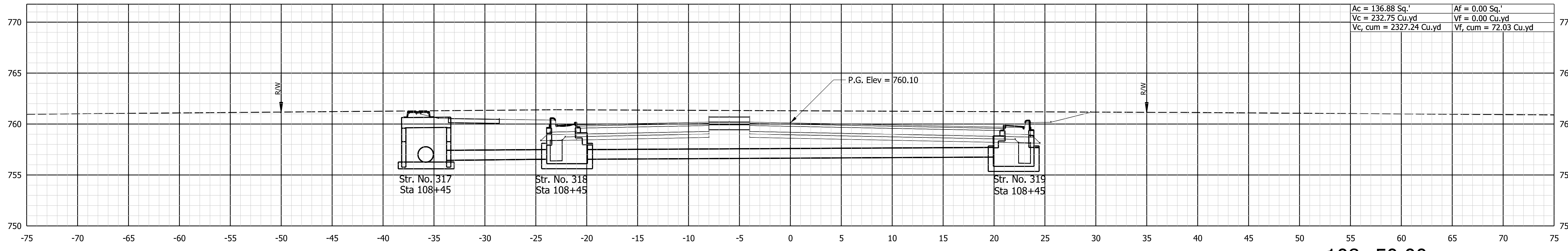
SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 104 of 106
CONTRACT R-42358	PROJECT 1900107

Ac = 124.84 Sq.' Af = 0.00 Sq.'
 Vc = 242.33 Cu.yd Vf = 0.00 Cu.yd
 Vc_cum = 2569.57 Cu.yd Vf_cum = 72.03 Cu.yd



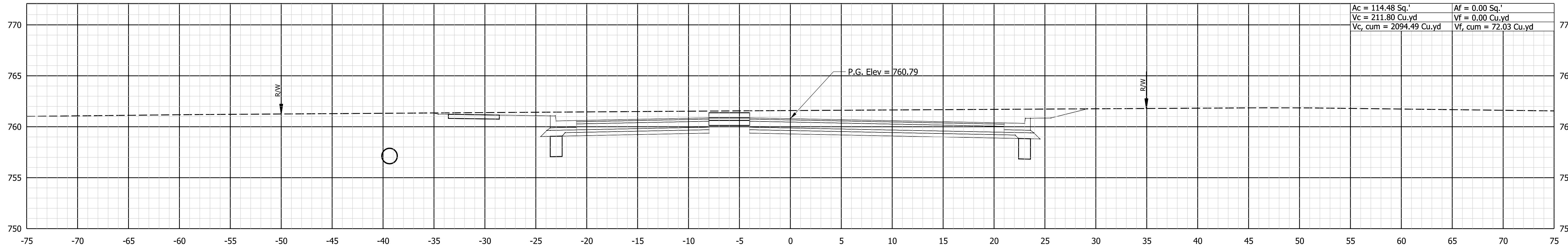
109+00.00

Ac = 136.88 Sq.' Af = 0.00 Sq.'
 Vc = 232.75 Cu.yd Vf = 0.00 Cu.yd
 Vc_cum = 2327.24 Cu.yd Vf_cum = 72.03 Cu.yd



108+50.00

Ac = 114.48 Sq.' Af = 0.00 Sq.'
 Vc = 211.80 Cu.yd Vf = 0.00 Cu.yd
 Vc_cum = 2094.49 Cu.yd Vf_cum = 72.03 Cu.yd



108+00.00

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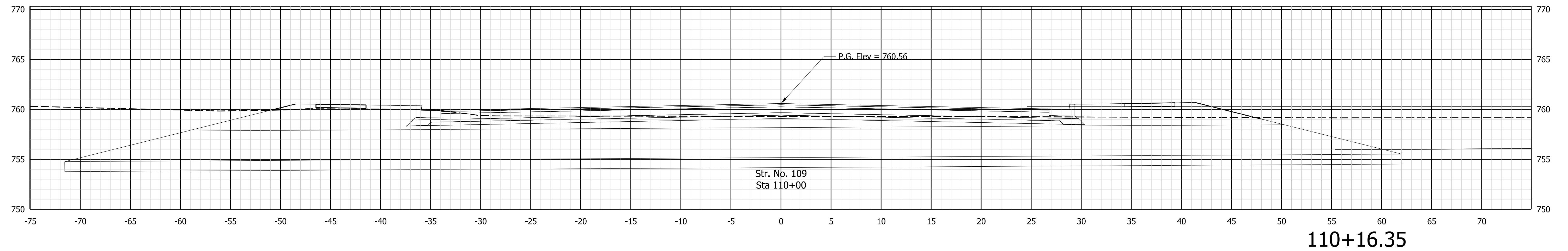
NOT FOR CONSTRUCTION
 DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION
 CROSS SECTIONS LINE 'PR-C'

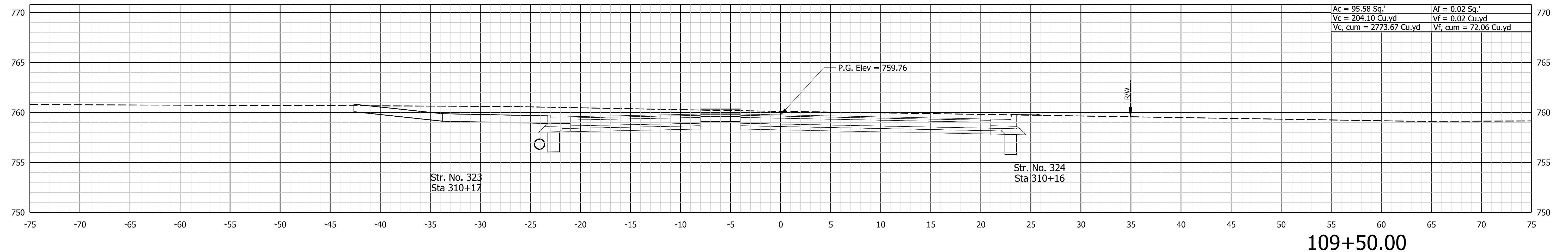
SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 105 of 106
CONTRACT R-42358	PROJECT 1900107

End Construction Sta. 110+53.24 'PR-C'

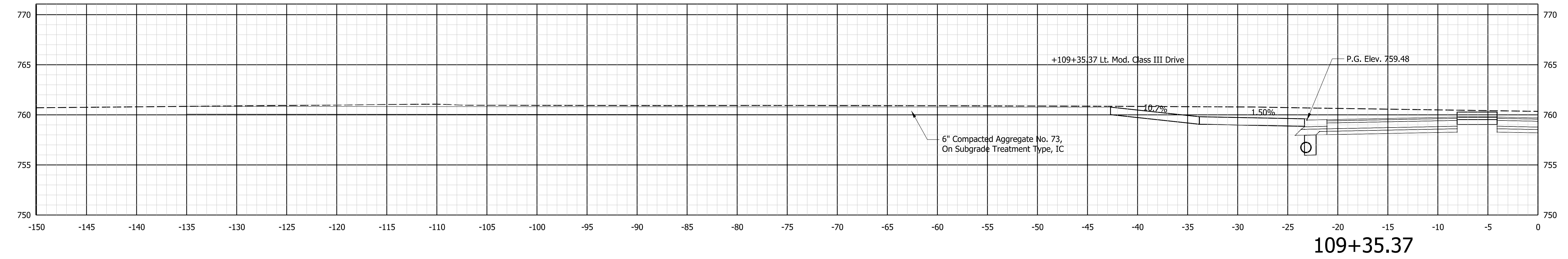


110+16.35

Ac = 95.58 Sq.'	Af = 0.02 Sq.'
Vc = 204.10 Cu.yd	Vf = 0.02 Cu.yd
Vc, cum = 2773.67 Cu.yd	Vf, cum = 72.06 Cu.yd



109+50.00



109+35.37

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NOT FOR CONSTRUCTION
DLZ INDIANA, LLC

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JWH	DRAWN: DPH	
CHECKED: FS	CHECKED: JWH	

INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS LINE 'PR-C'

SCALE 1"=5'	ROAD FILE -
	DESIGNATION 1900107
SURVEY BOOK ELECTRONIC	SHEETS 106 of 106
CONTRACT R-42358	PROJECT 1900107