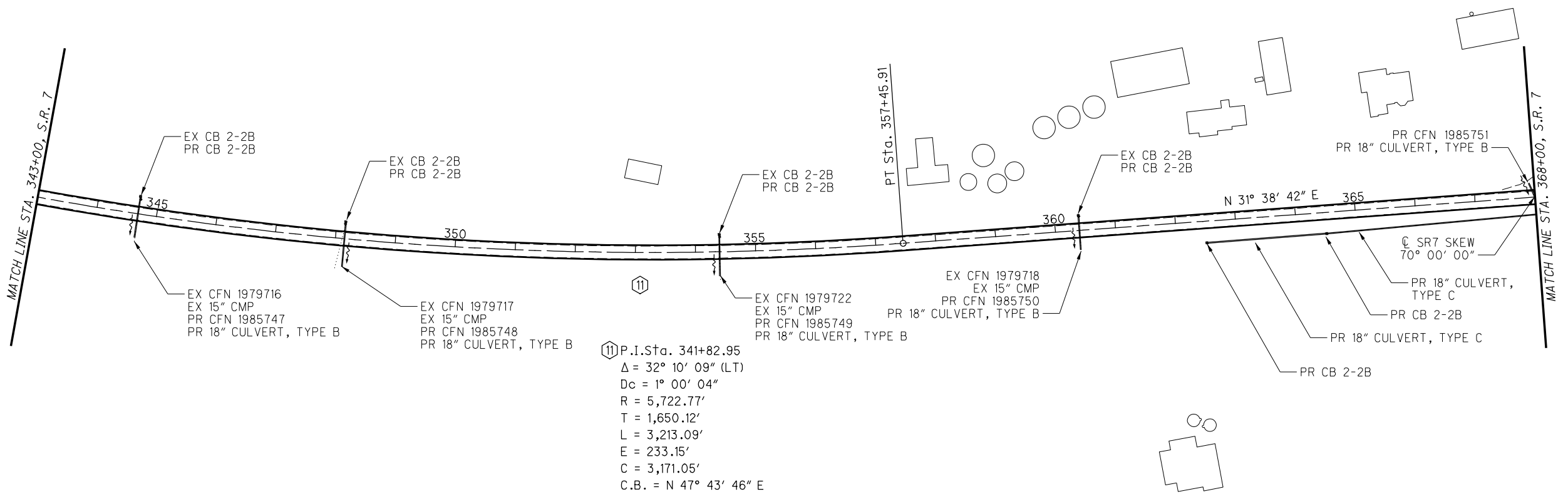
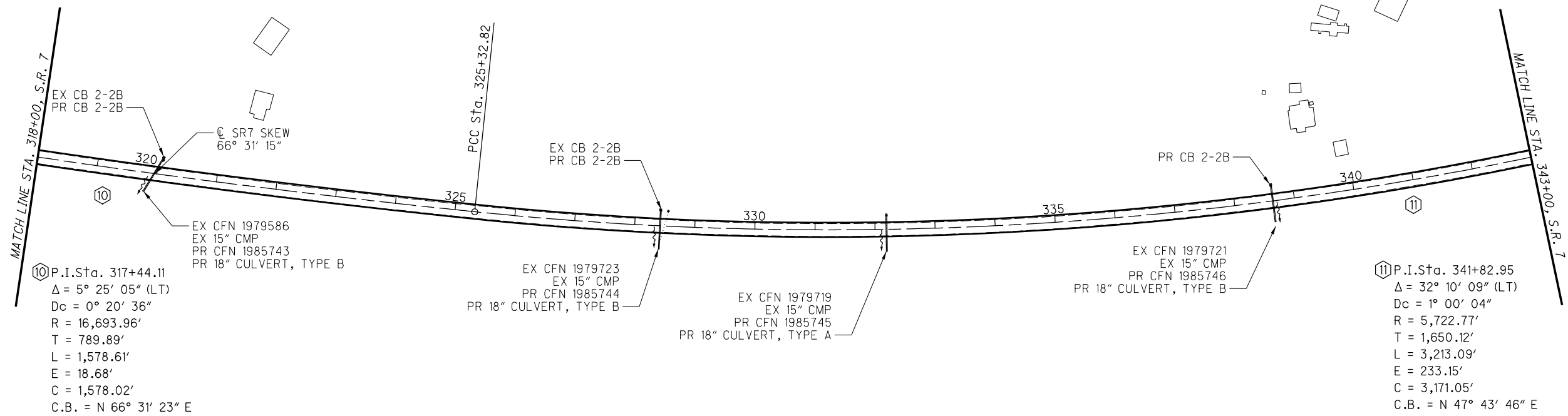


I:\ProjectData\GAL\101518_GAL-7-5.22\Design\Roadway\Sheets\Schematic\101518_GP2.dgn Sheet 1/13/2021 8:52:58 AM KKLESKI



CALCULATED	KWK	CHECKED	MRF
------------	-----	---------	-----

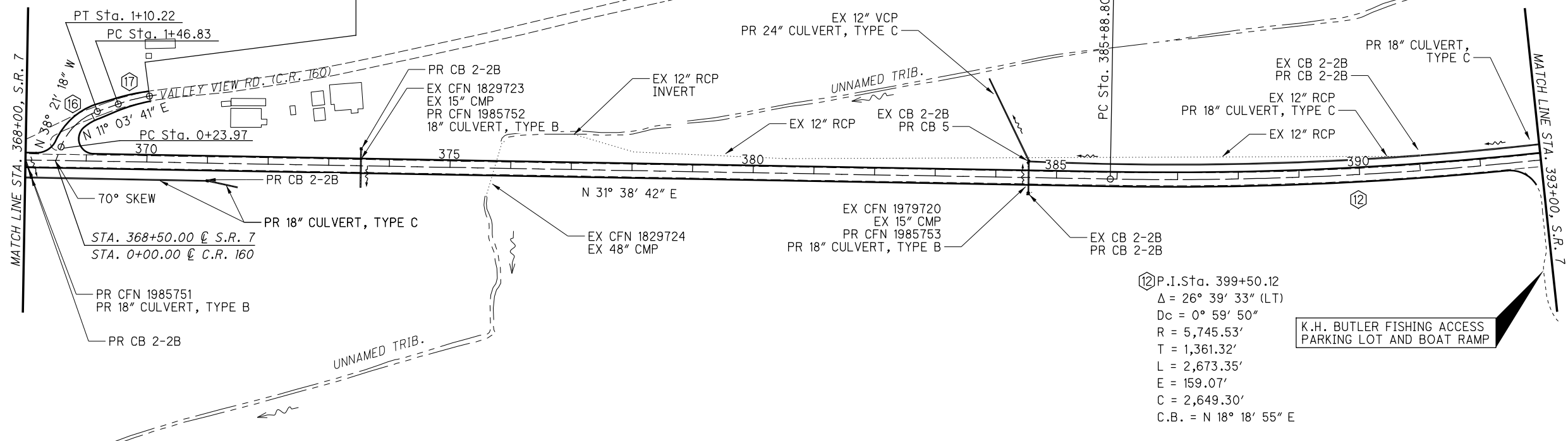
SCHEMATIC PLAN
SR 7 STA 318+00 TO 368+00

GAL-7-5.22

I:\ProjectData\GAL\101518_GAL-7-5.22\Design\Roadway\Sheets\Schematic\101518_GP3.dgn Sheet 1/13/2021 8:53:02 AM KKLESKI

16 P.I. Sta. 0+69.99 17 P.I. Sta. 1+79.14
 $\Delta = 49^\circ 25' 00''$ (RT) $\Delta = 12^\circ 17' 37''$ (RT)
 $D_c = 57' 17' 45''$ $D_c = 19' 05' 55''$
 $R = 100.00'$ $R = 300.00'$
 $T = 46.01'$ $T = 32.31'$
 $L = 86.25'$ $L = 64.37'$
 $E = 10.08'$ $E = 1.73'$
 $C = 83.60'$ $C = 64.25'$
 $C.B. = N 13^\circ 38' 49'' W$ $C.B. = N 17^\circ 12' 30'' E$

END WORK
 STA. 1+98.0
 @ VALLEY VIEW

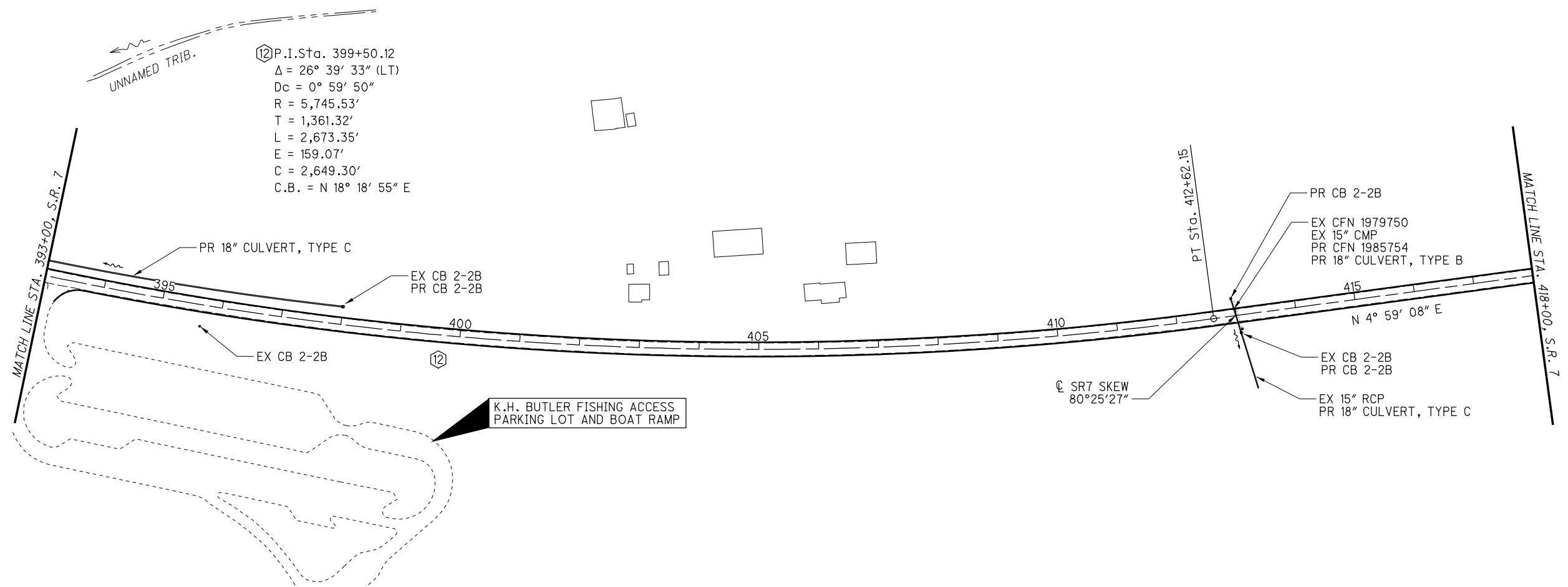


CALCULATED
 KWK
 CHECKED
 MRF

0 100 200
 HORIZONTAL
 SCALE IN FEET

SCHEMATIC PLAN
SR 7 STA 368+00 TO 418+00

GAL-7-5.22



FARM DRAINS

ALL FARM DRAINS, WHICH ARE ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROVIDED WITH UNOBSTRUCTED OUTLETS. EXISTING COLLECTORS WHICH ARE LOCATED BELOW THE ROADWAY DITCH ELEVATIONS, AND WHICH CROSS THE ROADWAY, SHALL BE REPLACED WITHIN THE (RIGHT OF WAY) (CONSTRUCTION) LIMITS BY ITEM 611 CONDUIT, TYPE B, ONE COMMERCIAL SIZE LARGER THAN THE EXISTING CONDUIT.

EXISTING COLLECTORS AND ISOLATED FARM DRAINS, WHICH ARE ENCOUNTERED ABOVE THE ELEVATION OF ROADWAY DITCHES, SHALL BE OUTLETTED INTO THE ROADWAY DITCH BY 611 TYPE F CONDUIT. THE OPTIMUM OUTLET ELEVATION SHALL BE ONE FOOT ABOVE THE FLOWLINE ELEVATION OF THE DITCH. LATERAL FIELD TILES WHICH CROSS THE ROADWAY SHALL BE INTERCEPTED BY 611, TYPE E CONDUIT, AND CARRIED IN A LONGITUDINAL DIRECTION TO AN ADEQUATE OUTLET OR ROADWAY CROSSING.

THE LOCATION, TYPE, SIZE AND GRADE OF REPLACEMENTS SHALL BE DETERMINED BY THE ENGINEER AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENTS.

EROSION CONTROL PADS SHALL BE PROVIDED AT THE OUTLET END OF ALL FARM DRAINS AS PER STANDARD CONSTRUCTION DRAWING DM-1.1, EXCEPT WHEN THEY OUTLET INTO A DRAINAGE STRUCTURE. PAYMENT FOR THE EROSION CONTROL PADS AND ANY NECESSARY BENDS OR BRANCHES SHALL BE INCLUDED FOR PAYMENT IN THE PERTINENT CONDUIT ITEMS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

611 6" CONDUIT, TYPE E 100 FT.
611 6" CONDUIT, TYPE F 50 FT.

DESIGNATED LOCAL DETOUR ROUTE

IN ADDITION TO THE OFFICIAL, SIGNED DETOUR ROUTE, A LOCAL ROUTE HAS BEEN DETERMINED TO BE THE SECONDARY, UNSIGNED DETOUR ROUTE OR "DESIGNATED LOCAL DETOUR ROUTE." THIS ROUTE IS SHOWN ON SHEET NO. 18. DURING THE TIME THAT TRAFFIC IS DETOURED, THE CONTRACTOR SHALL MAINTAIN THIS ROUTE IN A CONDITION WHICH IS REASONABLY SMOOTH AND FREE FROM HOLES, RUTS, RIDGES, BUMPS, DUST AND STANDING WATER. ONCE THE DETOUR IS REMOVED AND TRAFFIC RETURNED TO ITS NORMAL PATTERN, THE DESIGNATED LOCAL DETOUR ROUTE SHALL BE RESTORED TO A CONDITION THAT IS EQUIVALENT TO THAT WHICH EXISTED PRIOR TO ITS USE FOR THIS PURPOSE. ALL SUCH WORK SHALL BE PERFORMED WHEN AND AS DETERMINED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED FOR USE AS DETERMINED BY THE ENGINEER TO MAINTAIN AND SUBSEQUENTLY RESTORE THE DESIGNATED LOCAL DETOUR ROUTE.

ITEM 253 - PAVEMENT REPAIR 25 CY
25 CY CARRIED TO THE GENERAL SUMMARY

203 - EXCAVATION

33,661 CY TOTAL EXCAVATION FROM X-SEC SHEETS
3,289 CY TOTAL FILL FROM X-SEC SHEETS

ASPHALT EXCAVATION
26000' X 10' X 0.5' / 27 = 4,815 CY

33661 CY + 4815 CY = 38,476 CY

TOTAL EXCAVATION 38,476 CY
TOTAL EMBANKMENT 3,289 CY

ITEM 206 - CHEMICALLY STABILIZED SUBGRADE

CHEMICALLY STABILIZED SUBGRADE IS PROPOSED FOR THIS PROJECT FROM 274+60 TO 534+66 WITH A TREATMENT DEPTH OF 12". THE FOLLOWING ITEMS HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO CHEMICALLY STABILIZE THE SUBGRADE.

ITEM 206 - CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP
99918 SY CARRIED TO THE GENERAL SUMMARY

ITEM 206 - CEMENT
115 LB/CF X .05 X 27 CF/CY X 99918 SY
X 12"/36 / (2000 LB/TON) = 2586 TON
2586 CARRIED TO THE GENERAL SUMMARY

ITEM 206 - CURING COAT
99918 SY CARRIED TO THE GENERAL SUMMARY

ITEM 204 - PROOF ROLLING

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY TO ADDRESS LOCATIONS REQUIRING PROOF ROLLING.

99918 SY / 2000 SY/HR = 50 HOURS
50 HOURS CARRIED TO THE GENERAL SUMMARY

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE REFERENCES AND BENCHMARKS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL
POSITIONING METHOD: STATIC GNSS
MONUMENT TYPE: B

VERTICAL POSITIONING
ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: 12A

HORIZONTAL POSITIONING
REFERENCE FRAME: NAD83 (2011)
ELLIPSOID: GRS80
MAP PROJECTION: LAMBERT CONFORMAL CONIC
COORDINATE SYSTEM: OHIO SPS, SOUTH
COMBINED SCALE FACTOR: 1.000000
ORIGIN OF COORD SYSTEM: (0,0)
UNITS ARE IN U.S. SURVEY FEET.

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE THE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS

SEEDING AND MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

872,800 SF TOTAL SEEDING AND MULCHING FROM X-SEC SHEETS

ITEM 659 - SEEDING AND MULCHING
872800 SF / 9 = 96,678 SY
96,678 SY CARRIED TO THE GENERAL SUMMARY

ITEM 659 - COMMERCIAL FERTILIZER
872800 SF X (20 LBS/1000 SF) / (2000 LBS / TON)= 8.73 TON
8.73 TON CARRIED TO THE GENERAL SUMMARY

ITEM 659 - LIME
872800 SF / (43560 SF / ACRE)= 20.04 ACRE
20.04 ACRE CARRIED TO THE GENERAL SUMMARY

ITEM 659 - WATER
872800 SF X (2 X 300 GAL/1000 SF) / 1000= 524 MGAL
524 MGAL CARRIED TO THE GENERAL SUMMARY

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

CLEARING AND GRUBBING

THE DEPARTMENT HAS NOT MARKED INDIVIDUAL TREES AND STUMPS FOR REMOVAL. UNLESS SPECIFICALLY DESIGNATED AS "DO NOT DISTURB" IN THE PLANS, REMOVE ALL TREES AND STUMPS WITHIN THE CONSTRUCTION LIMITS UNDER THE LUMP SUM BID FOR ITEM 201 CLEARING AND GRUBBING.

VEGETATED BIOFILTER

THIS PLAN UTILIZES VEGETATED BIOFILTER(S) FOR POST CONSTRUCTION STORM WATER TREATMENT. PLACE EITHER ITEM 660 SODDING OR ITEM 659 SEEDING AND MULCHING WITH A 4-INCH LIFT OF TOPSOIL AS SHOWN IN THE PLANS TO ANY DISTURBED AREA ON THE SHOULDER AND FORESLOPE DRAINING TO A VEGETATED BIOFILTER. THE DITCH FOR EACH VEGETATED BIOFILTER SHALL BE TRAPEZOIDAL WITH A 4' DITCH BOTTOM, AS SHOWN IN THE PLAN CROSS SECTIONS. PROVIDE ITEM 670 AS PER PLAN.

ITEM 670 - DITCH EROSION PROTECTION
5393' X 7.5' / 9 = 4495 SY
4495 SY CARRIED TO THE GENERAL SUMMARY

BMP TYPE	SR 7 STATION		LENGTH	SIDE
	BEGIN	END		
VEGETATED BIO FILTER 1	279+00	285+50	650	LT
VEGETATED BIO FILTER 2	294+50	305+00	1050	LT
VEGETATED BIO FILTER 3	384+54	389+50	496	LT
VEGETATED BIO FILTER 4	389+50	391+00	150	LT
VEGETATED BIO FILTER 5	391+00	396+00	500	LT
VEGETATED BIO FILTER 6	396+00	398+00	200	LT
VEGETATED BIO FILTER 7	398+00	403+00	500	LT
VEGETATED BIO FILTER 8	403+00	412+99	999	LT
VEGETATED BIO FILTER 9	413+00	415+00	200	LT
VEGETATED BIO FILTER 10	424+00	428+00	400	LT
VEGETATED BIO FILTER 11	523+02	525+50	248	LT

ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

71 EACH CARRIED TO THE GENERAL SUMMARY
NOTE: TEMPORARY MAILBOX SUPPORT SHALL BE MOVABLE TO ACCOMMODATE OVERSIZED VEHICLES FOR THE DURATION OF THE PROJECT.

202 - PIPE REMOVED, 24" AND UNDER, AS PER PLAN
THE FOLLOWING QUANTITY HAS BEEN ADDED TO REMOVE THE EXISTING UNDERDRAIN.

29,100' CARRIED TO THE GENERAL SUMMARY

I:\ProjectData\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\01518_GN001.dgn GENERAL NOTES 2 1/13/2021 8:53:19 AM KKLESKI

CALCULATED
KWK
CHECKED
MRF

GENERAL NOTES

GAL - 7 - 5.22

I:\ProjectData\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\01518_GG001.dgn CENSUM I/14/2021 8:51:48 AM KKL\ESKI

SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	KWK	CHECKED	MRF
14	29	30	31	32	33	34	35	36			01/NHS/PV	02/SAF/PV										
												ROADWAY										
LS											LS		201	11000	LS		CLEARING AND GRUBBING					
				7	15	4					26		202	20010	26	EACH	HEADWALL REMOVED					
	63,330	149									63,479		202	23000	63,479	SY	PAVEMENT REMOVED, PCC					
				21	215	116					352		202	32700	352	SY	GUTTER REMOVED					
29,100				3,622	2,134	632					6,388		202	35100	6,388	FT	PIPE REMOVED, 24" AND UNDER					
											29,100		202	35101	29,100	FT	PIPE REMOVED, 24" AND UNDER, AS PER PLAN				14	
											6,662.5											
								6,662.5			6,662.5		202	38000	6,662.5	FT	GUARDRAIL REMOVED					
				13	3						16		202	58100	16	EACH	CATCH BASIN REMOVED					
38,476	834	583	95								39,988		203	10000	39,988	CY	EXCAVATION					
3,289											3,289		203	20000	3,289	CY	EMBANKMENT					
	101,192										101,192		204	10000	101,192	SY	SUBGRADE COMPACTION					
											3,899		204	10001	3,899	SY	SUBGRADE COMPACTION, AS PER PLAN				13	
50											50		204	45000	50	HOUR	PROOF ROLLING					
2,586											2,586		206	10500	2,586	TON	CEMENT					
99,918											99,918		206	11000	99,918	SY	CURING COAT					
99,918											99,918		206	15010	99,918	SY	CEMENT STABILIZED SUBGRADE, 12 INCHES DEEP					
											5,637.5											
											150		606	15100	150	FT	GUARDRAIL, TYPE MGS WITH LONG POSTS					
											137.5		606	15400	137.5	FT	MGS GUARDRAIL, TYPE 8					
											4		606	26050	4	EACH	ANCHOR ASSEMBLY, MGS TYPE B					
											12		606	26150	12	EACH	ANCHOR ASSEMBLY, MGS TYPE E (MASH 2016)					
											13		606	26550	13	EACH	ANCHOR ASSEMBLY, MGS TYPE T					
											4		606	35002	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1					
71											71		SPECIAL	69050000	71	EACH	MAILBOX SUPPORT				14	
												EROSION CONTROL										
				15	27	2					44		601	11001	44	SY	RIPRAP, TYPE D, AS PER PLAN				13	
				47	76	42					165		601	32204	165	CY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC					
96,678											96,678		659	10000	96,678	SY	SEEDING AND MULCHING					
8.73											8.73		659	20000	8.73	TON	COMMERCIAL FERTILIZER					
20.04											20.04		659	31000	20.04	ACRE	LIME					
524											524		659	35000	524	MGAL	WATER					
4,495											4,495		670	00700	4,495	SY	DITCH EROSION PROTECTION					
											LS		832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN					
											LS		832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS					
											LS		832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE					
											100,000		832	30000	100,000	EACH	EROSION CONTROL					
												DRAINAGE										
				7.5	7.2	3.1					17.8		511	46610	17.8	CY	CLASS QC1 CONCRETE, HEADWALL					
				23.5	41.4	12.0					76.9		511	52110	76.9	CY	CLASS QC MS CONCRETE					
											2,019		605	13410	2,019	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC					
											39,880		605	14020	39,880	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC					
100											100		611	01400	100	FT	6" CONDUIT, TYPE E					
50											1,363		611	01500	1,363	FT	6" CONDUIT, TYPE F					
				566	530	33					1,129		611	04900	1,129	FT	12" CONDUIT, TYPE D					
				344	281	121					746		611	07200	746	FT	18" CONDUIT, TYPE A					
				759	205	55					1,019		611	07400	1,019	FT	18" CONDUIT, TYPE B					
				1,337	96	895					2,328		611	07600	2,328	FT	18" CONDUIT, TYPE C					
				352	763	419					1,534		611	07900	1,534	FT	18" CONDUIT, TYPE D					
					70	90					160		611	10200	160	FT	24" CONDUIT, TYPE A					
					195						195		611	10400	195	FT	24" CONDUIT, TYPE B					
				153							153		611	10600	153	FT	24" CONDUIT, TYPE C					
				1	3						4		611	98330	4	EACH	CATCH BASIN, NO. 5 WITHOUT APRON					
				14	3	5					22		611	98470	22	EACH	CATCH BASIN, NO. 2-2B					
											12		611	99710	12	EACH	PRECAST REINFORCED CONCRETE OUTLET					

GENERAL SUMMARY

GAL - 7 - 5.22

I:\ProjectData\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\01518_GS001.dgn DRAINAGE\1/3/2021 8:53:46 AM KKL/ESKI

REFERENCE NUMBER	STATION	SIDE	202	202	202	202	511	601	601	611	611	611	611	611	611	611	611	611	611	511	NOTES
			HEADWALL REMOVED EACH	GUTTER REMOVED SY	PIPE REMOVED, 24" AND UNDER FT	CATCH BASIN REMOVED EACH	CLASS QC1 CONCRETE, HEADWALL CY	RIPRAP, TYPE D, AS PER PLAN SY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC CY	12" CONDUIT, TYPE D FT	18" CONDUIT, TYPE A FT	18" CONDUIT, TYPE B FT	18" CONDUIT, TYPE C FT	18" CONDUIT, TYPE D FT	24" CONDUIT, TYPE A FT	24" CONDUIT, TYPE B FT	24" CONDUIT, TYPE C FT	CATCH BASIN, NO. 5 WITHOUT APRON EACH	CATCH BASIN, NO. 2-2B EACH	CLASS QC MS CONCRETE CY	
D01	275+26	L&R	2		61		0.7		2		74										
D02	277+76	L&R	2		61		0.7		2		66									3.6	ONLY ENCASE LEFT HALF
D03	278+56 TO 278+98	R			65											45					
D04	407+57 TO 407+92	R			23					35										1.4	
D05	297+43 TO 297+86	L			28										43						
D06	300+01 TO 300+40	L			21										40					1.7	
D07	305+15	L&R		4	107		0.7	4	3		73										
D08	307+17 TO 307+53	L			35																
D09	307+42.15	L&R		4	76		0.7	3	3		69										
D10	308+98 TO 309+36	L			21						38										
D11	310+38 TO 310+86	L			37						48									1.4	
D12	314+80	L&R		4	72	1	0.4		3				73					1			CB-01
D13	319+95.53	L&R		4	63	1	0.4		4				67					1			CB-02
D14	320+58 TO 321+06	L			25										49						
D15	321+57 TO 322+07	L			27						50									1.4	
D16	325+32 TO 325+70	L			28						38									1.4	
D17	328+42	L&R		5	59	1	0.4		4				65					1			CB-03
D18	378+88 TO 379+36	R			26						48									1.4	
D19	332+19	L&R			59	1	0.7	4	2		62									3.6	ONLY ENCASE LEFT HALF
D20	336+70 TO 337+11	L			41																
D21	338+64	L&R	2		67		0.4		4				62					1			CB-04
D22	339+24 TO 339+71	L			64										47					1.7	
D23	344+69	L&R			73	1	0.4		5				68					1			CB-05
D24	344+68 TO 345+08	L													38						
D25	346+62 TO 346+98	L			36																
D26	348+15	L&R			76	1	0.4		4				74					1			CB-06
D27	353+01 TO 353+46	L			46						45										
D28	354+40	L&R			72	1	0.4		3				68					1			CB-07
D29	355+98 TO 356+48	L			50																
D30	359+56 TO 360+39	L									61									1.4	
D31	360+40	L&R			59	1	0.4		3				56					1			CB-08
D32	363+68 TO 364+20	L									53									1.4	
0.40	368+00	L&R					0.4	4					54								
D34	367+79 TO 368+43	L			65																
D35	371+50 TO 371+98	L			170						48										
D36	372+61 TO 373+13	L									52										
D37	373+53	L&R			58		0.4		2				63					1			CB-10
D38	375+72 TO 376+12	R			40										40					1.7	
D39	378+64 TO 379+13	L													50						
D40	377+03 TO 380+53	L			354	1															
D41	380+53 TO 391+02	L			1050																
D42	383+77 TO 384+55	L			151				3									153			
D43	384+54	L&R			48	2					51						1	1			CB-11, CB-12
D44	384+54 TO 391+02	L				1							644				1	1			CB-13
D45	391+02 TO 398+00	L									693						1	1			CB-14
D46	399+54 TO 399+74	L			20																
D47	402+29 TO 402+70	L			40																
D48	406+29 TO 406+78	L			102						50									1.4	
D49	412+99.60	L&R	1		46	1						58						2			CB-15, CB-16
TOTALS CARRIED TO GENERAL SUMMARY			7	21	3622	13	7.5	15	47	566	344	759	1337	352	0	0	153	1	14	23.5	

CALCULATED	KWK	CHECKED	MRF
DRAINAGE SUBSUMMARY			
GAL-7-5.22			
32			
348			

I:\Project+Data\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\01518_GS001.dgn DRAINAGE3 1/13/2021 8:53:47 AM KKLESKI

REFERENCE NUMBER	STATION	SIDE	202	202	202	202	511	601	601	611	611	611	611	611	611	611	611	611	611	511	NOTES	
			HEADWALL REMOVED EACH	GUTTER REMOVED SY	PIPE REMOVED, 24" AND UNDER FT	CATCH BASIN REMOVED EACH	CLASS QC1 CONCRETE, HEADWALL CY	RIPRAP, TYPE D, AS PER PLAN SY	ROCK CHANNEL PROTECTION, TYPE C WITH GEOTEXTILE FABRIC CY	12" CONDUIT, TYPE D FT	18" CONDUIT, TYPE A FT	18" CONDUIT, TYPE B FT	18" CONDUIT, TYPE C FT	18" CONDUIT, TYPE D FT	24" CONDUIT, TYPE A FT	24" CONDUIT, TYPE B FT	24" CONDUIT, TYPE C FT	CATCH BASIN, NO. 5 WITHOUT APRON EACH	CATCH BASIN, NO. 2-2B EACH	CLASS QC MS CONCRETE CY		
D100	494+89 TO 495+10	R			21					33											1.4	
D101	498+53 TO 498+66	L			13																	
D102	501+50 TO 501+64	L		6							7											
D103	499+00 TO 499+20	R		27							5											
D104	502+54 TO 503+44	R		27	31						9					56						
D105	506+12 TO 506+50	R			31											38						
D106	508+00	L&R			65		0.7				4		58									7.2
D107	509+28 TO 509+93	L			41																	
D108	512+57	L&R	1	2	70		0.4				3		55							1		CB-22
D109	518+62	L&R	2	6	52		0.7				4		63									
D110	521+55 TO 522+09	L			50											55						
D111	522+08 TO 523+00	L		48																		
D112	523+03 TO 523+45	L			60																	
D113	523+02	L&R			90		0.9	2	2													1.7
D114	532+68 TO 533+27	L			78											59						1.7
D115	450+57	R	1		30																	
D116	361+62.62 TO 362+50.00	R																				CB-24
D117	362+50.00 TO 364+50.00	R											198									CB-25
D118	364+50.00 TO 368+10.04	R											359									CB-26
D119	368+10.04 TO 371+00.00	R											288									CB-27
D120	371+00.00 TO 371+50.00	R					0.4		2				50									
TOTALS CARRIED TO GENERAL SUMMARY			4	116	632	0	3.1	2	42	33	121	55	895	419	90	0	0	0	5	12.0		

CALCULATED	KWK
	CHECKED
MRF	
DRAINAGE SUBSUMMARY	
GAL - 7 - 5.22	
34	
348	

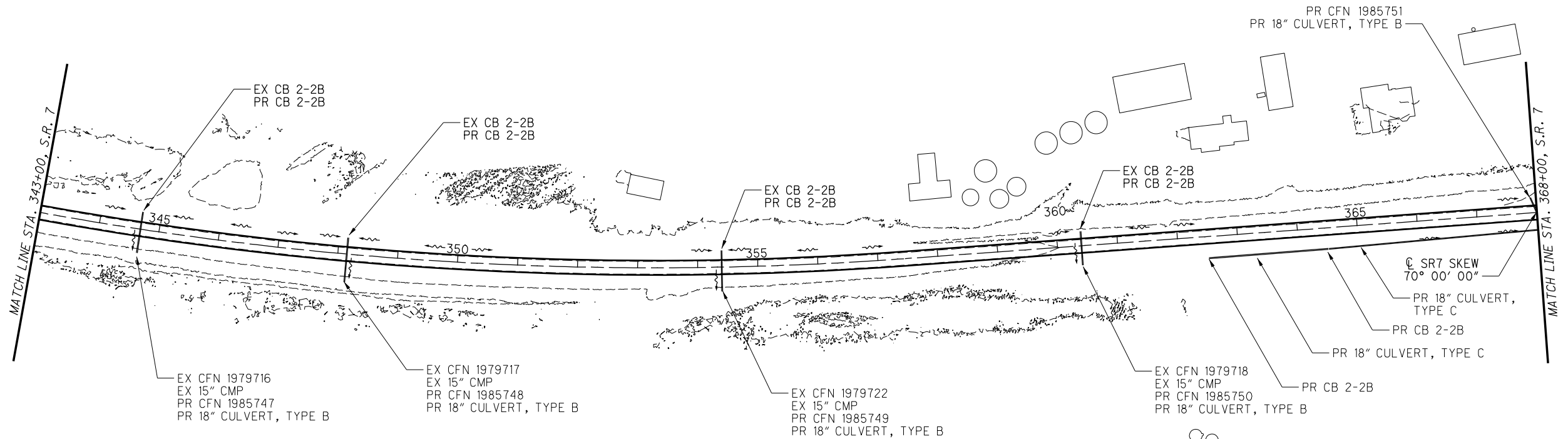
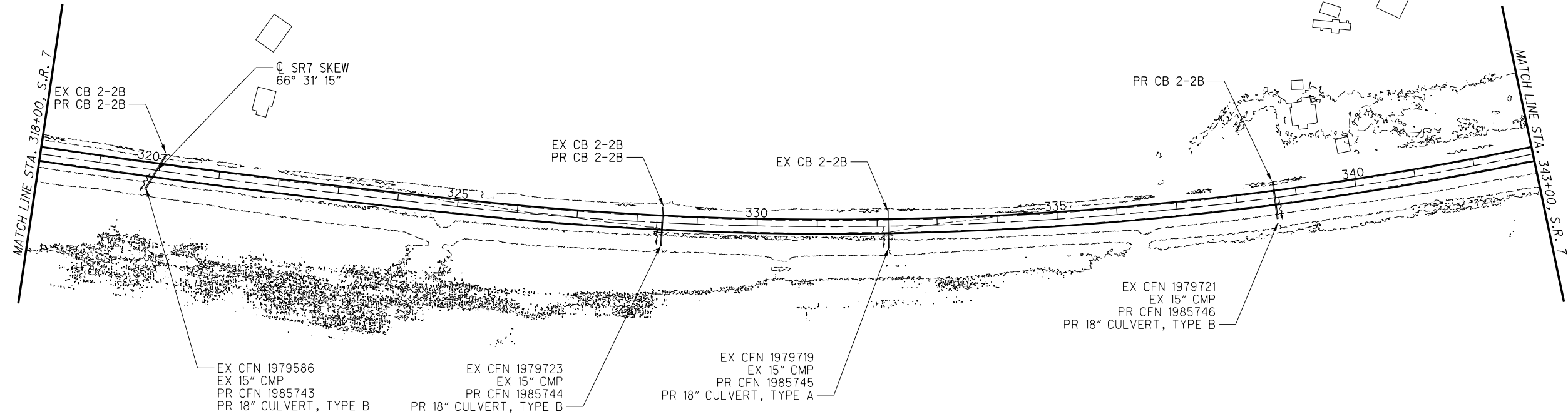
I:\ProjectData\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\01518_GS001.dgn UNDERDRAIN 1/13/2021 8:53:48 AM KKLESKI

REFERENCE NUMBER	STATION TO STATION	SIDE	605	605	611	611	BEND AND BRANCHES					
			6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	PRECAST REINFORCED CONCRETE OUTLET	6" CONDUIT, TYPE F	6" 90° BEND	6" 45° BEND	6" TEE	6" END CAP		
			FT	FT	EACH	FT	INFORMATION PURPOSES ONLY					
U01	274+60 TO 275+25	L		64		21	1	1				
U02	275+28 TO 277+75	L	244			16	1	1				1
U03	277+77 TO 282+49	L	292	173		16	1	1				1
U04	282+50 TO 287+46	L	489		1	13	1					1
U05	290+64 TO 293+99	L	331		1	16	1					1
U06	294+00 TO 305+13	L	1112		1	19	1					1
U07	305+17 TO 307+47	L	230			13	1					1
U08	307+56 TO 312+94	L	720			30	2	1				
U09	314+82 TO 320+07	L	518			16	1					1
U10	320+05 TO 332+17	L	831	379		12			1			2
U11	332+21 TO 338+62	L	640			10	1					1
U12	338+65 TO 344+63	L	594			13	1	1				1
U13	344+65 TO 348+09	L	344			15	1	1				1
U14	348+11 TO 354+39	L	624			15	2	2				
U15	354+42 TO 360+39	L	594			11	1	1				1
U16	360+42 TO 367+89	L	748			9	1					1
U17	367+96 TO 373+52	L	553			14	1	1				1
U18	373+55 TO 384+48	L	1094		1	13	1					2
U19	384+50 TO 391+00	L	649			13	1	1				1
U20	391+02 TO 397+98	L	694			10	1					1
U21	398+00 TO 412+93	L	1489			28	2	1				
U22	412+99 TO 428+98	L	1599			28			1			2
U23	429+00 TO 434+48	L	548			30	1					1
U24	434+50 TO 440+98	L	648		1	10	1					1
U25	441+00 TO 446+98	L	598		1	13	1					1
U26	447+00 TO 450+48	L	348		1	10	1					1
U27	450+56 TO 452+79	L	223			11	1	1				1
U28	452+83 TO 456+48	L	364			10	1					1
U29	456+54 TO 464+50	L	787			22	2	1				
U30	464+54 TO 468+29	L	245	127		17	1	1				1
U31	468+33 TO 471+10	L	276			10	1					1
U32	471+13 TO 474+95	L	383			12	1					1
U33	474+99 TO 479+96	L	498			12	1					1
U34	480+00 TO 485+00	L	501			21	1					1
U35	485+02 TO 492+96	L	792			10	1	1				1
U36	493+00 TO 502+88	L	929	70		46			1			2
U37	502+90 TO 507+98	L	508		1	18	1					1
U38	508+02 TO 512+55	L	453			11	1					
U39	512+58 TO 518+60	L	600			11	1	1				1
U40	518+64 TO 523+00	L	436			10	1					
U41	523+04 TO 534+66	L	943	220		23	1					
U42	297+50 TO 301+98	R	448		1	50	1					1
U43	302+00 TO 305+11	R	312		1	16	1					1
U44	305+16 TO 307+33	R	217			28	1	1				1
U45	307+29 TO 314+79	R	742			50	2	2				
U46	314+81 TO 319+86	R	506			19	1	1				1
U47	319+90 TO 328+40	R	458	395		24	1	1				1
U48	357+50 TO 360+39	R	289			17	1	1				1
U49	360+42 TO 362+50	R	208			19	1					1
U49A	362+51 TO 364+50	R	200			18	1					1
U50	364+51 TO 371+00	R	656			12	1					1
U50A	371+01 TO 373+51	R	251			21	1	1				1
U51	373+55 TO 385+50	R	1045	150	1	12			1			2
U52	413+25 TO 428+97	R	1573			22			1			2
U53	429+00 TO 440+98	R	1199			30	1	1				1
U54	441+00 TO 447+73	R	674		1	10	1					1
U55	447+75 TO 450+48	R	273			30	1					1
U56	450+54 TO 452+50	R	197			27	1	1				1
U57	468+33 TO 471+03	R	271			32	1	1				1
U58	471+08 TO 474+95	R	388			28	1	1				1
TOTALS CARRIED TO GENERAL SUMMARY			34376	1578	12	1123	60	28	5	57		

REFERENCE NUMBER	STATION TO STATION	SIDE	605	605	611	611	BEND AND BRANCHES					
			6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC	PRECAST REINFORCED CONCRETE OUTLET	6" CONDUIT, TYPE F	6" 90° BEND	6" 45° BEND	6" TEE	6" END CAP		
			FT	FT	EACH	FT	INFORMATION PURPOSES ONLY					
U59	474+99 TO 479+97	R	498			38	1	1				1
U60	480+00 TO 492+97	R	1296			23	1	1				1
U61	493+00 TO 499+00	R	600			18	1					1
U62	499+02 TO 507+98	R	675	221		26			1			2
U63	508+01 TO 512+55	R	453			17	1	1				1
U64	512+58 TO 518+60	R	602			17	1	1				1
U65	518+63 TO 523+00	R	437			14	1	1				1
U66	523+03 TO 534+66	R	943	220		37	1	1				
TOTALS CARRIED TO GENERAL SUMMARY			5504	441	0	190	7	6	1	8		

CALCULATED	KWK	UNDERDRAIN SUBSUMMARY
	CHECKED	
MRF		
GAL - 7 - 5.22		
35		
348		

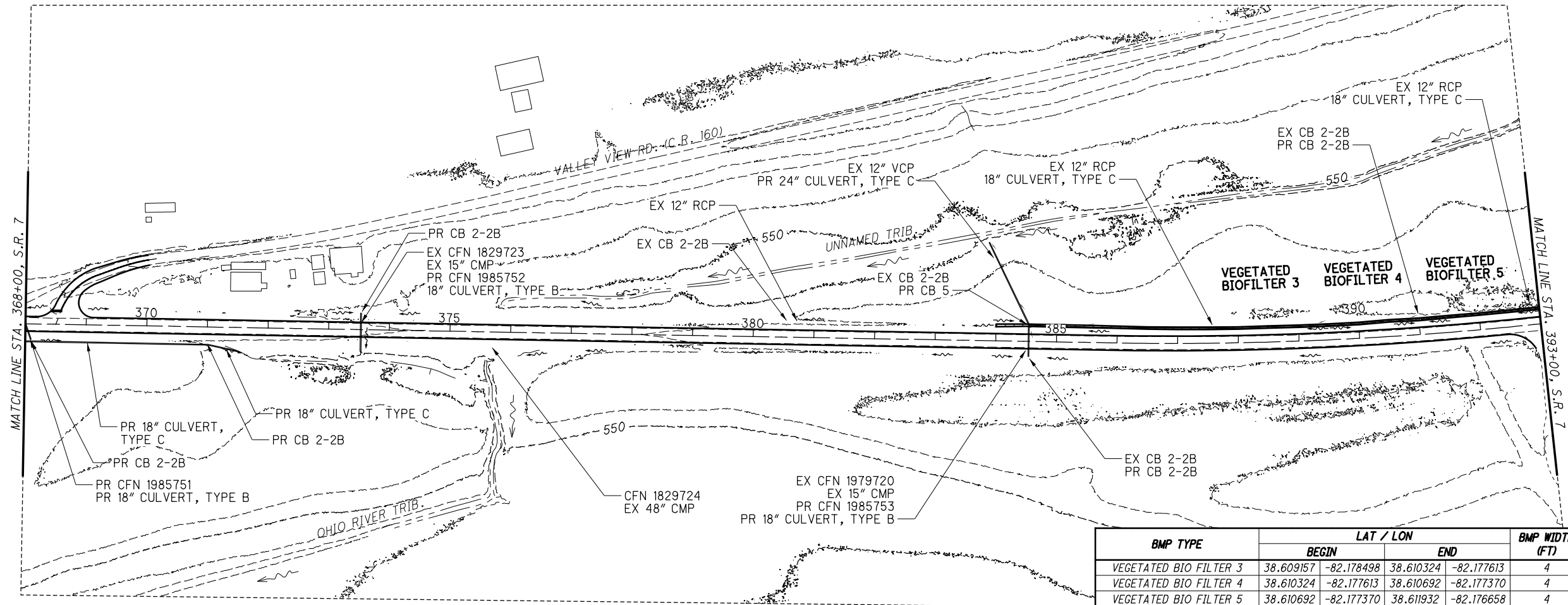
I:\ProjectData\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\SitePlan\01518_GP2.dgn Sheet 1/13/2021 8:54:13 AM KKLESKI



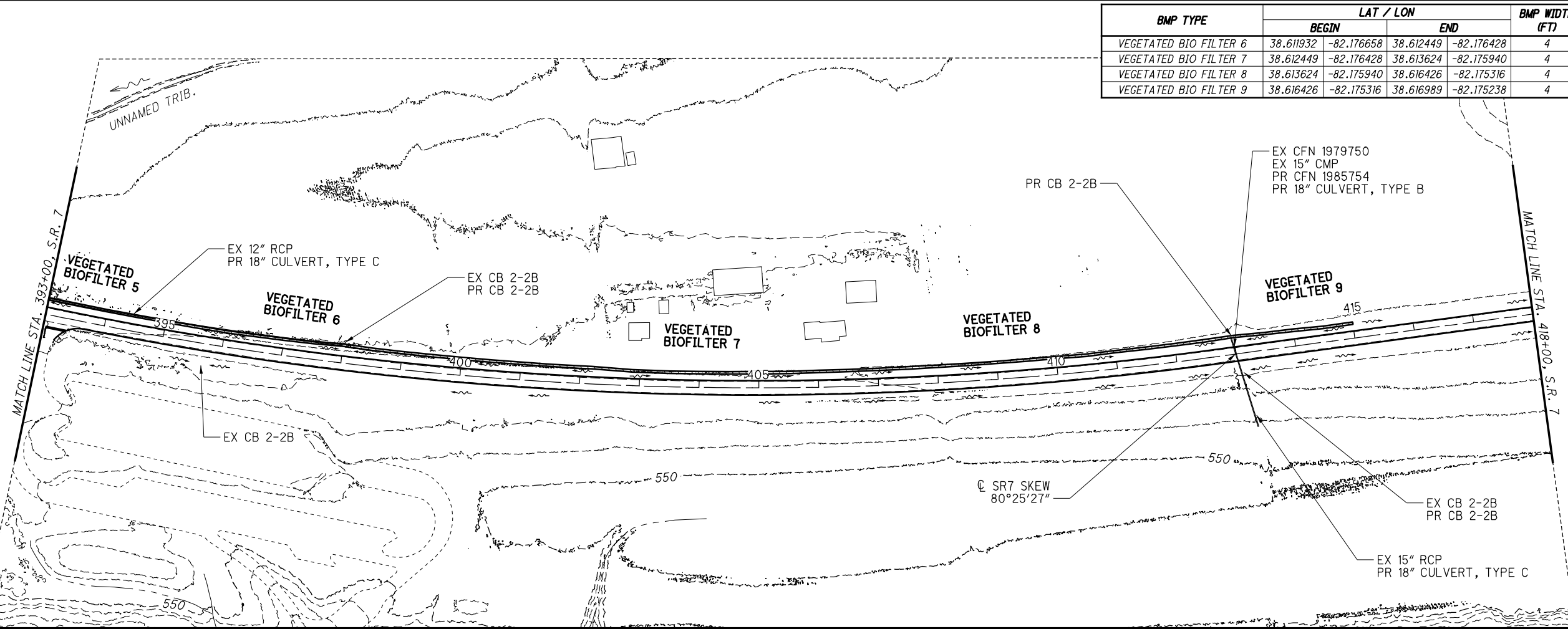
SITE PLAN
SR 7 STA 318+00 TO 368+00

GAL-7-5.22

I:\ProjectData\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\SitePlan\01518_GP3.dgn Sheet 1/13/2021 8:54:17 AM KKLESKI



BMP TYPE	LAT / LON		BMP WIDTH (FT)	EDA TREATMENT CREDIT (ACRE)
	BEGIN	END		
VEGETATED BIO FILTER 3	38.609157	-82.178498 38.610324 -82.177613	4	0.60
VEGETATED BIO FILTER 4	38.610324	-82.177613 38.610692 -82.177370	4	0.19
VEGETATED BIO FILTER 5	38.610692	-82.177370 38.611932 -82.176658	4	0.62



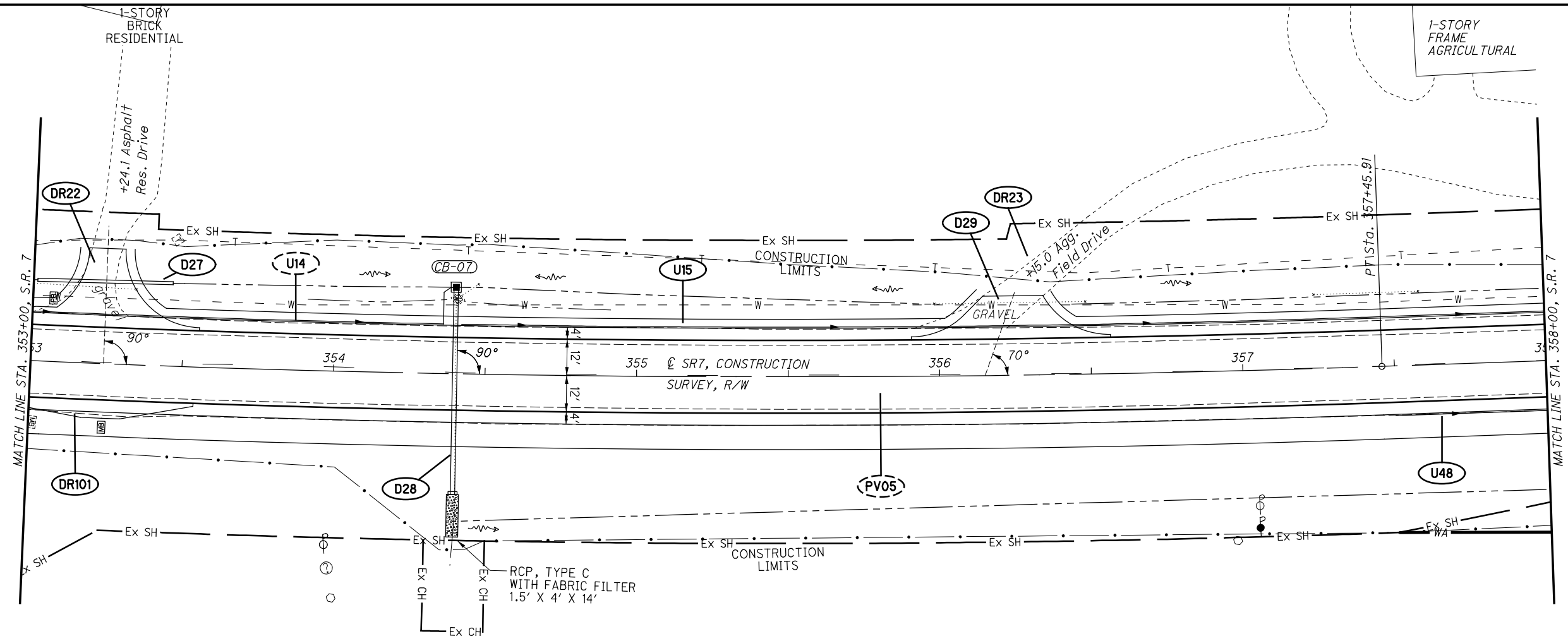
BMP TYPE	LAT / LON		BMP WIDTH (FT)	EDA TREATMENT CREDIT (ACRE)
	BEGIN	END		
VEGETATED BIO FILTER 6	38.611932	-82.176658 38.612449 -82.176428	4	0.27
VEGETATED BIO FILTER 7	38.612449	-82.176428 38.613624 -82.175940	4	0.60
VEGETATED BIO FILTER 8	38.613624	-82.175940 38.616426 -82.175316	4	1.60
VEGETATED BIO FILTER 9	38.616426	-82.175316 38.616989 -82.175238	4	0.20



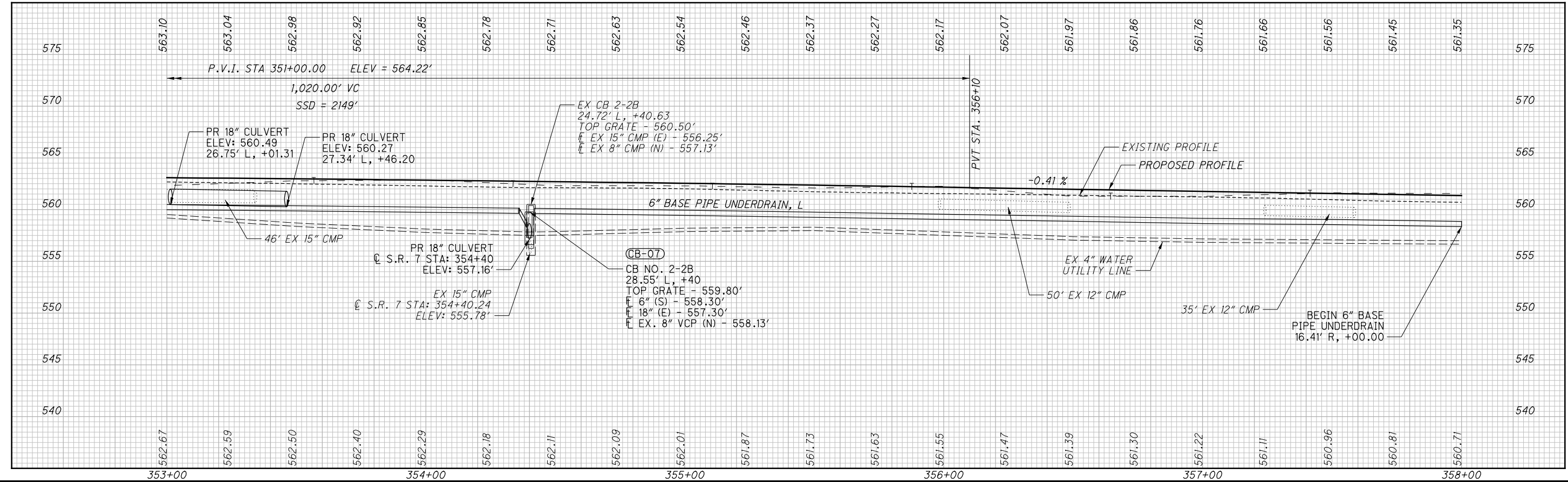
SITE PLAN
SR 7 STA 368+00 TO 418+00

GAL-7-5.22

I:\ProjectData\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\Plan-Profile\01518_Gal_PIT.dgn Sheet 1/13/2021 8:55:38 AM KKLESKI



NOTES:
FOR DRIVE DETAILS SEE SHEETS 306-338

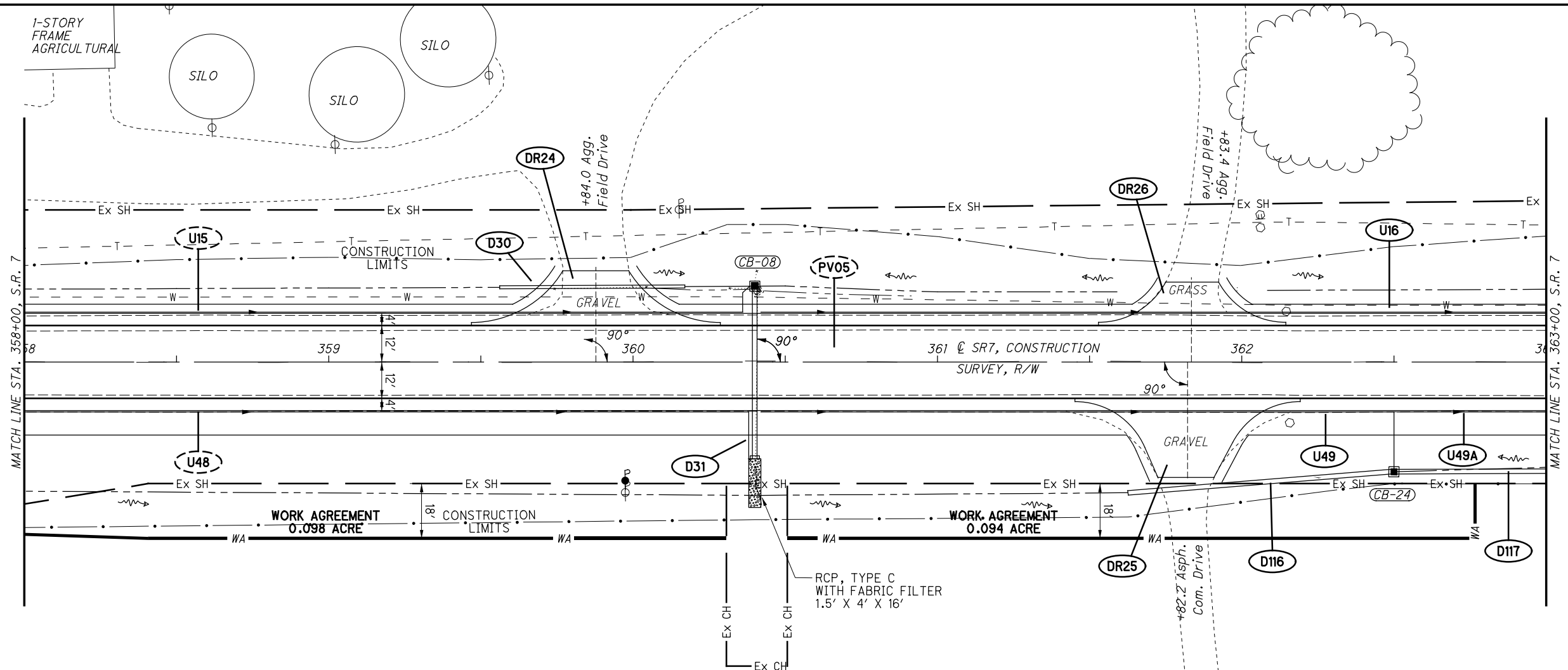


PLAN AND PROFILE
STA. 353+00 TO STA. 358+00, S.R. 7

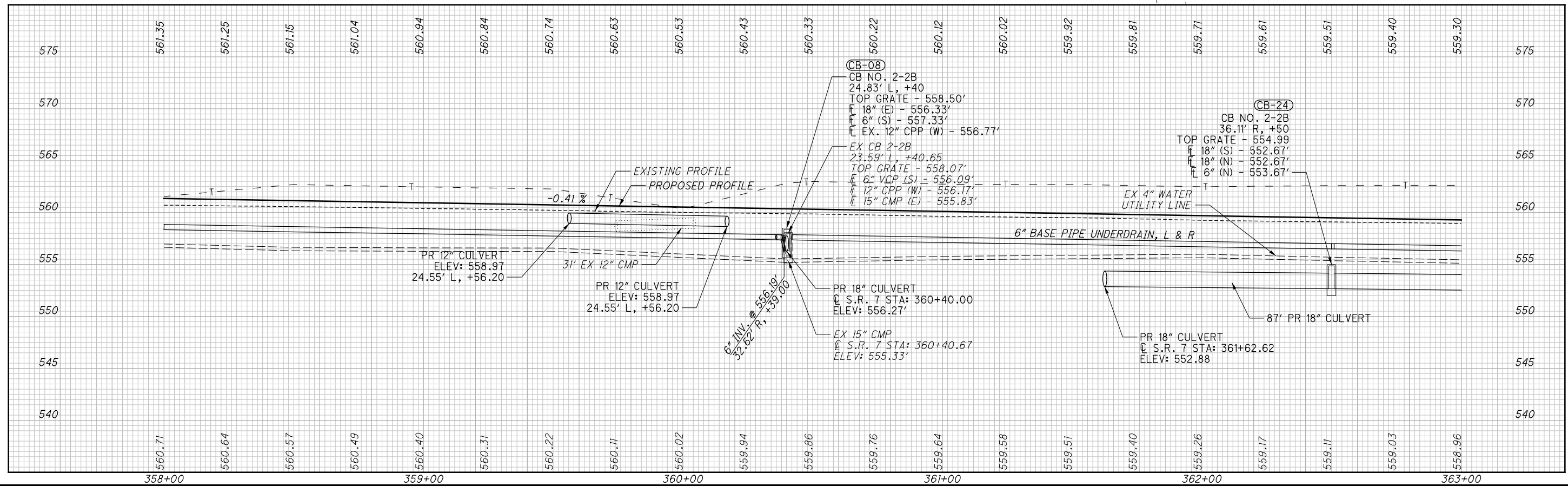
GAL-7-5.22

65
348

I:\ProjecData\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\Plan-Profile\01518_G.PIB.dgn Sheet 1/13/2021 8:55:42 AM KKLESKI



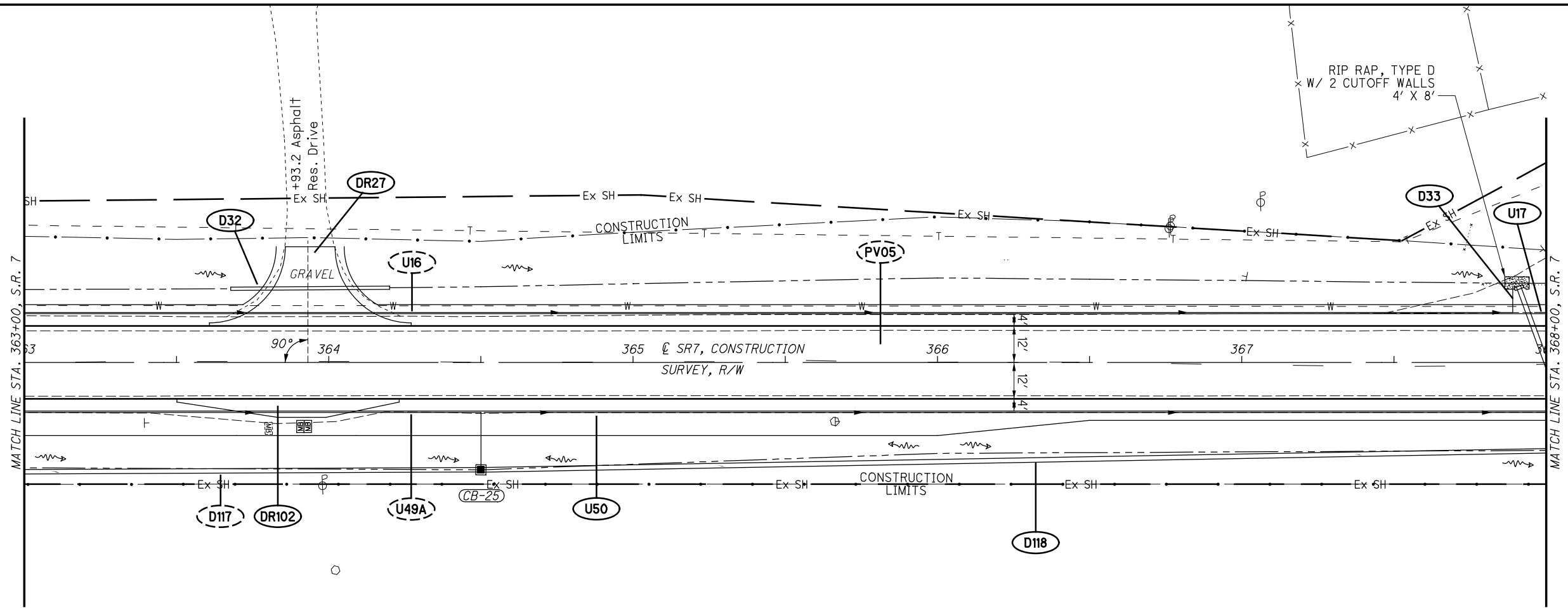
NOTES:
FOR DRIVE DETAILS SEE SHEETS 306-338



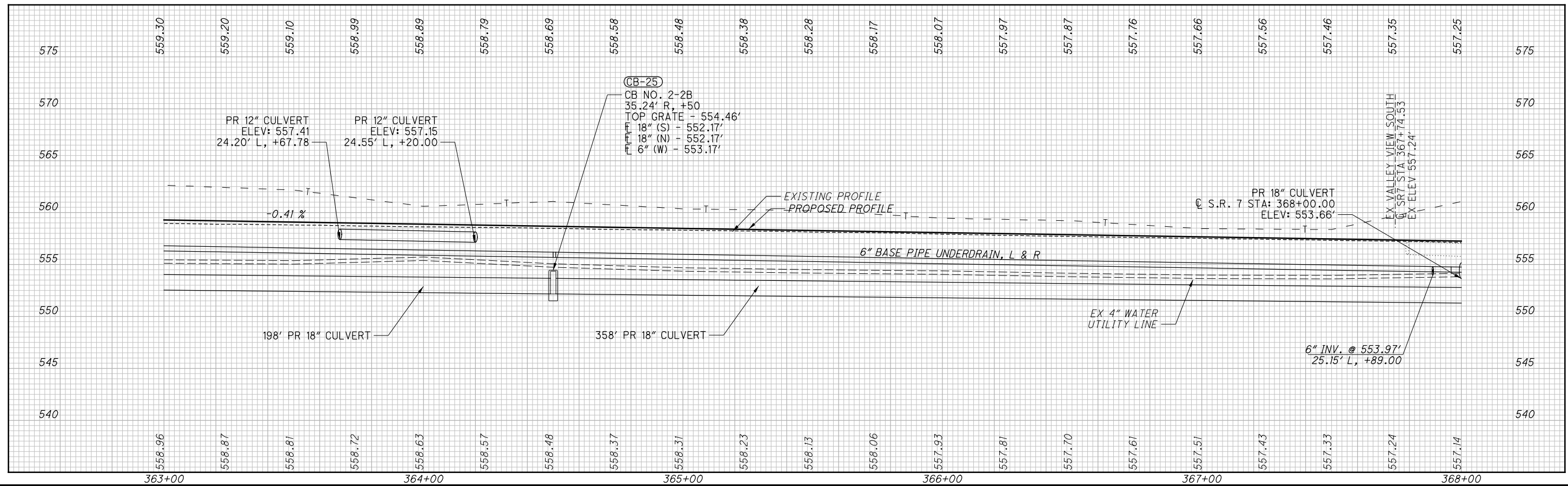
PLAN AND PROFILE
STA. 358+00 TO STA. 363+00, S.R. 7

GAL-7-5.22

I:\ProjectData\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\Plan-Profile\01518_G.P19.dgn Sheet 1/13/2021 8:55:46 AM KKLESKI



NOTES:
FOR DRIVE DETAILS SEE SHEETS 306-338



CALCULATED
KWK
CHECKED
MRF

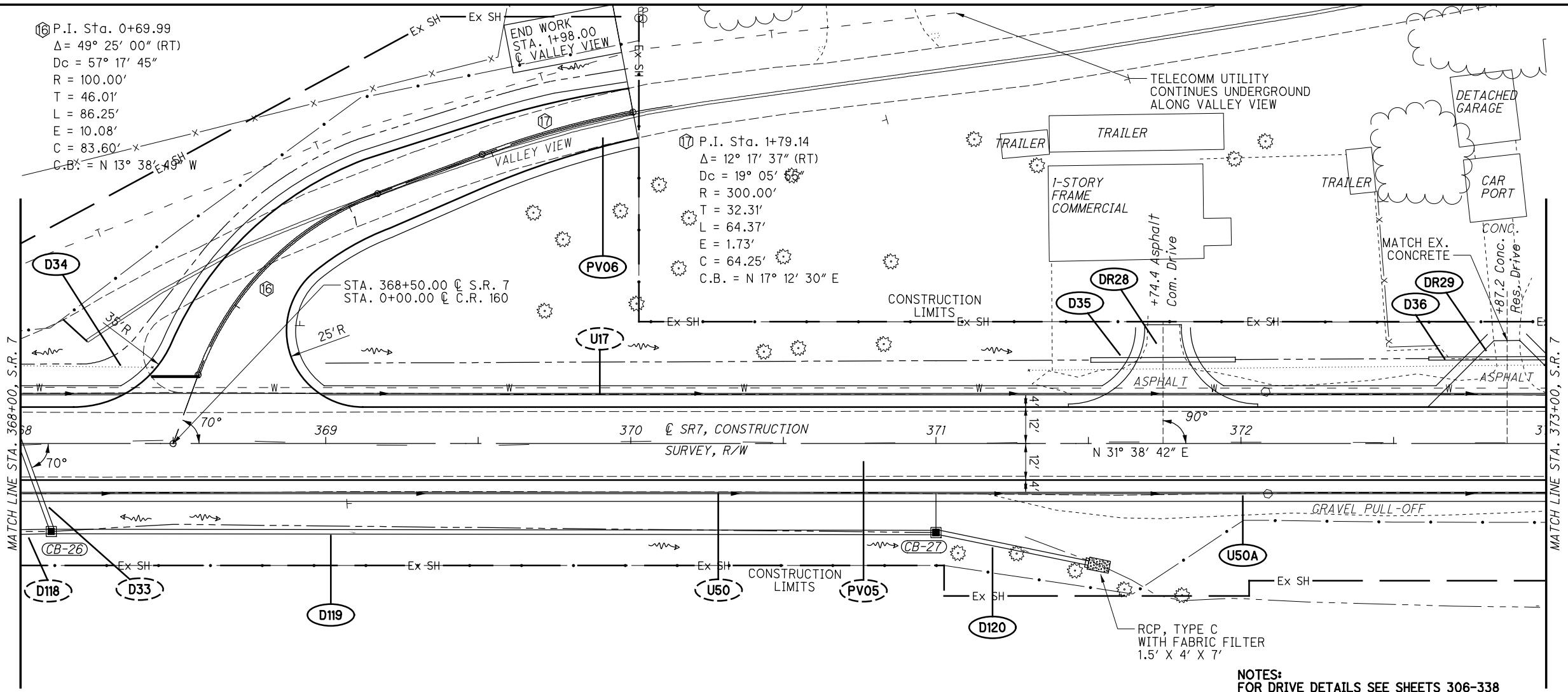
PLAN AND PROFILE
STA. 383+00 TO STA. 388+00, S.R. 7

GAL-7-5.22

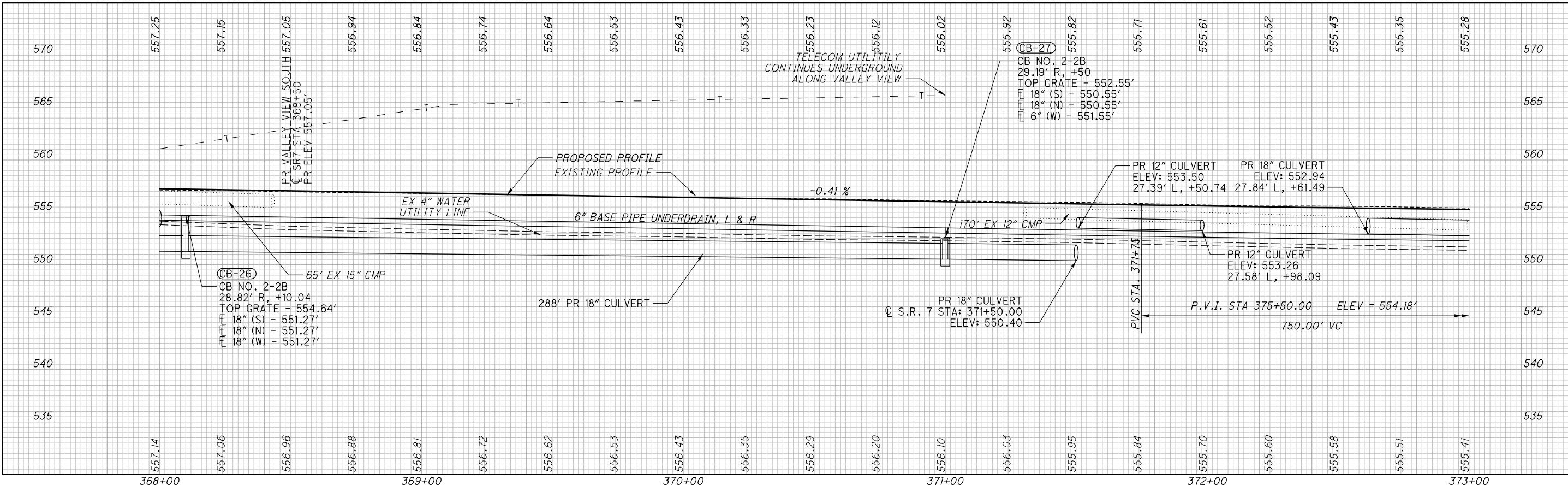
P.I. Sta. 0+69.99
 $\Delta = 49^\circ 25' 00''$ (RT)
 $D_c = 57^\circ 17' 45''$
 $R = 100.00'$
 $T = 46.01'$
 $L = 86.25'$
 $E = 10.08'$
 $C = 83.60'$
 $C.B. = N 13^\circ 38' 49'' W$

END WORK
 STA. 1+98.00
 @ VALLEY VIEW

P.I. Sta. 1+79.14
 $\Delta = 12^\circ 17' 37''$ (RT)
 $D_c = 19^\circ 05'$
 $R = 300.00'$
 $T = 32.31'$
 $L = 64.37'$
 $E = 1.73'$
 $C = 64.25'$
 $C.B. = N 17^\circ 12' 30'' E$



NOTES:
 FOR DRIVE DETAILS SEE SHEETS 306-338
 FOR SIDE ROAD DETAILS SEE SHEETS 102-106



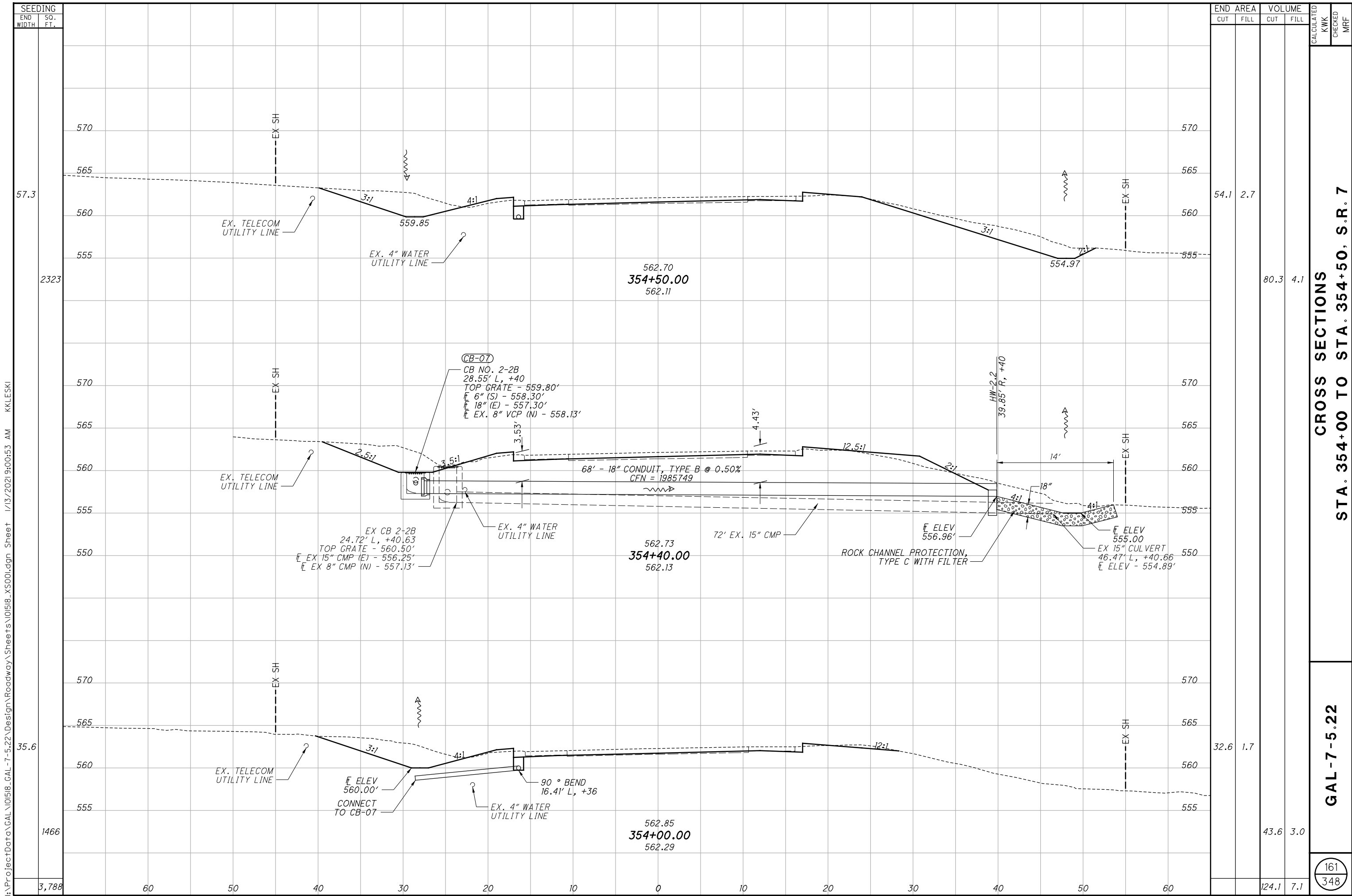
PLAN AND PROFILE
 STA. 368+00 TO STA. 373+00, S.R. 7

GAL-7-5.22

68
 348

I:\ProjecData\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\Plan-Profile\01518_GP20.dgn Sheet 1/13/2021 8:55:50 AM KKLESKI

I:\ProjectData\GAL\101518_GAL-7-5.22\Design\Roadway\Sheets\101518_XS001.dgn Sheet 1/13/2021 9:00:53 AM KKLESKI



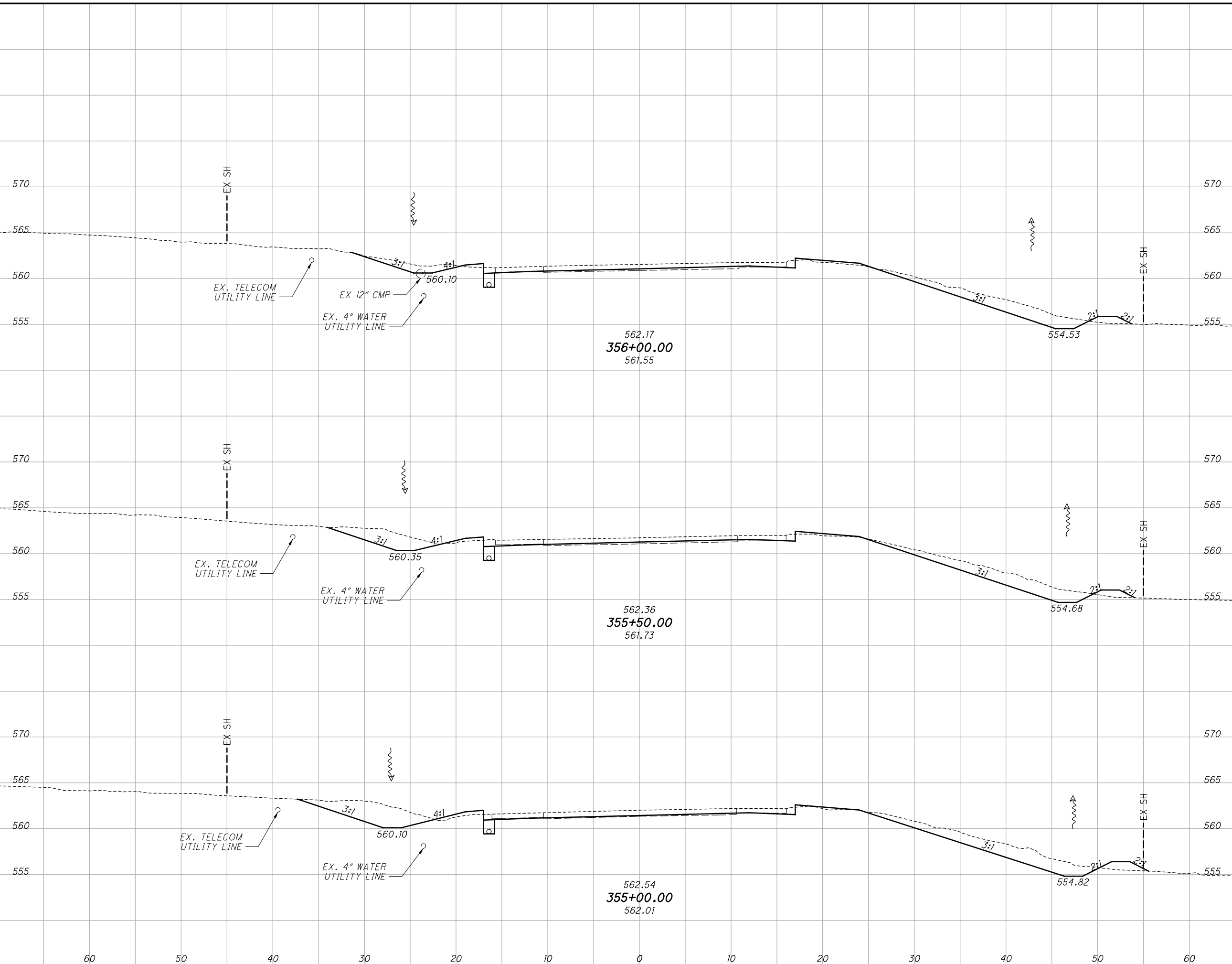
CROSS SECTIONS
STA. 354+00 TO STA. 354+50, S.R. 7

GAL-7-5.22

161
348

I:\ProjectData\GAL\101518_GAL-7-5.22\Design\Roadway\Sheets\101518_XS001.dgn Sheet 1/13/2021 9:00:56 AM KKLESKI

SEEDING	
END WIDTH	SO. FT.
8,408	
2918	
2845	
2645	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
28.5	1.5	61.4	3.3
37.8	2.1	80.4	4.4
49.0	2.7	95.5	5.0
		237.3	12.7

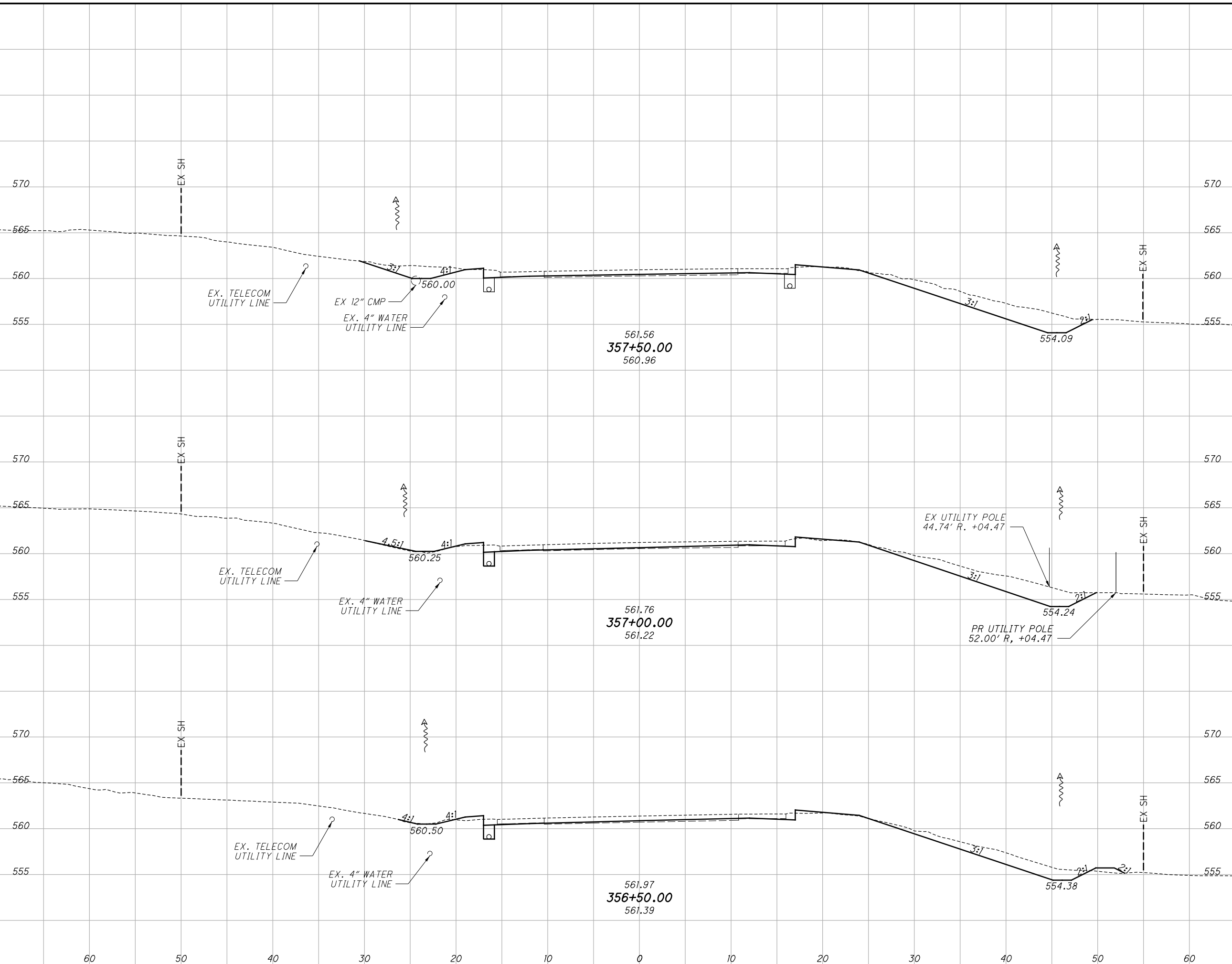
CROSS SECTIONS
STA. 355+00 TO STA. 356+00, S.R. 7
GAL-7-5.22

CALCULATED
 KWK
 CHECKED
 MRF

162
 348

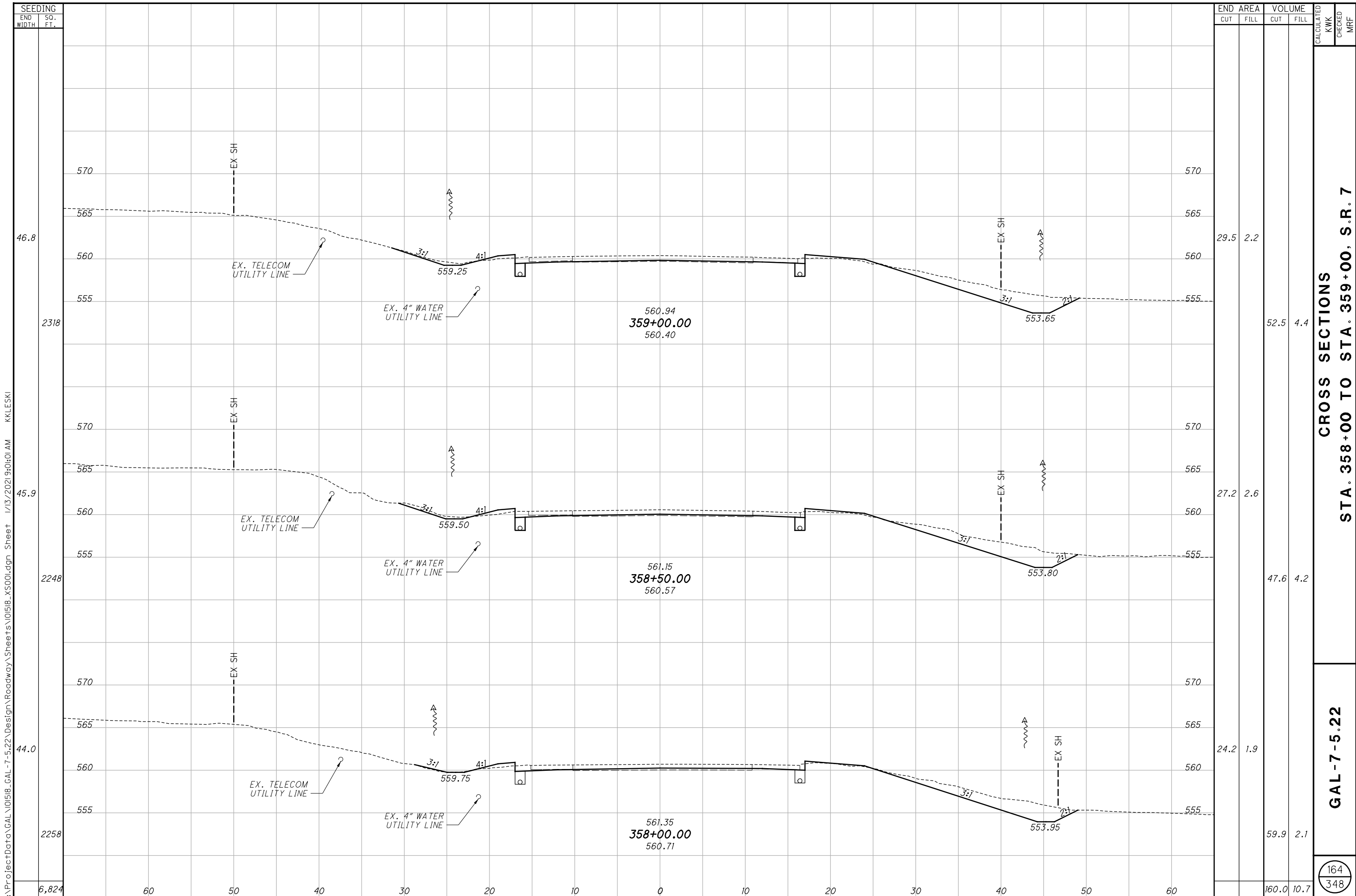
I:\ProjectData\GAL\101518.GAL-7-5.22\Design\Roadway\Sheets\101518_XS001.dgn Sheet 1/13/2021 9:00:58 AM KKLESKI

SEEDING	
END WIDTH	SO. FT.
7,013	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
40.4	0.4	66.3	1.9
31.2	1.7	44.7	3.2
17.0	1.8	42.2	3.1
		153.2	8.2

CROSS SECTIONS
STA. +356+50 TO STA. 357+50, S.R. 7
GAL-7-5.22
 CALCULATED: KWK
 CHECKED: MRF
 163
 348



SEEDING	
END WIDTH	SO. FT.
46.8	2318
45.9	2248
44.0	2258
6.824	

END AREA		VOLUME		CALCULATED		
CUT	FILL	CUT	FILL	KWK	CHECKED	MRF
29.5	2.2	52.5	4.4			
27.2	2.6	47.6	4.2			
24.2	1.9	59.9	2.1			
		160.0	10.7			

CROSS SECTIONS
STA. 358+00 TO STA. 359+00, S.R. 7

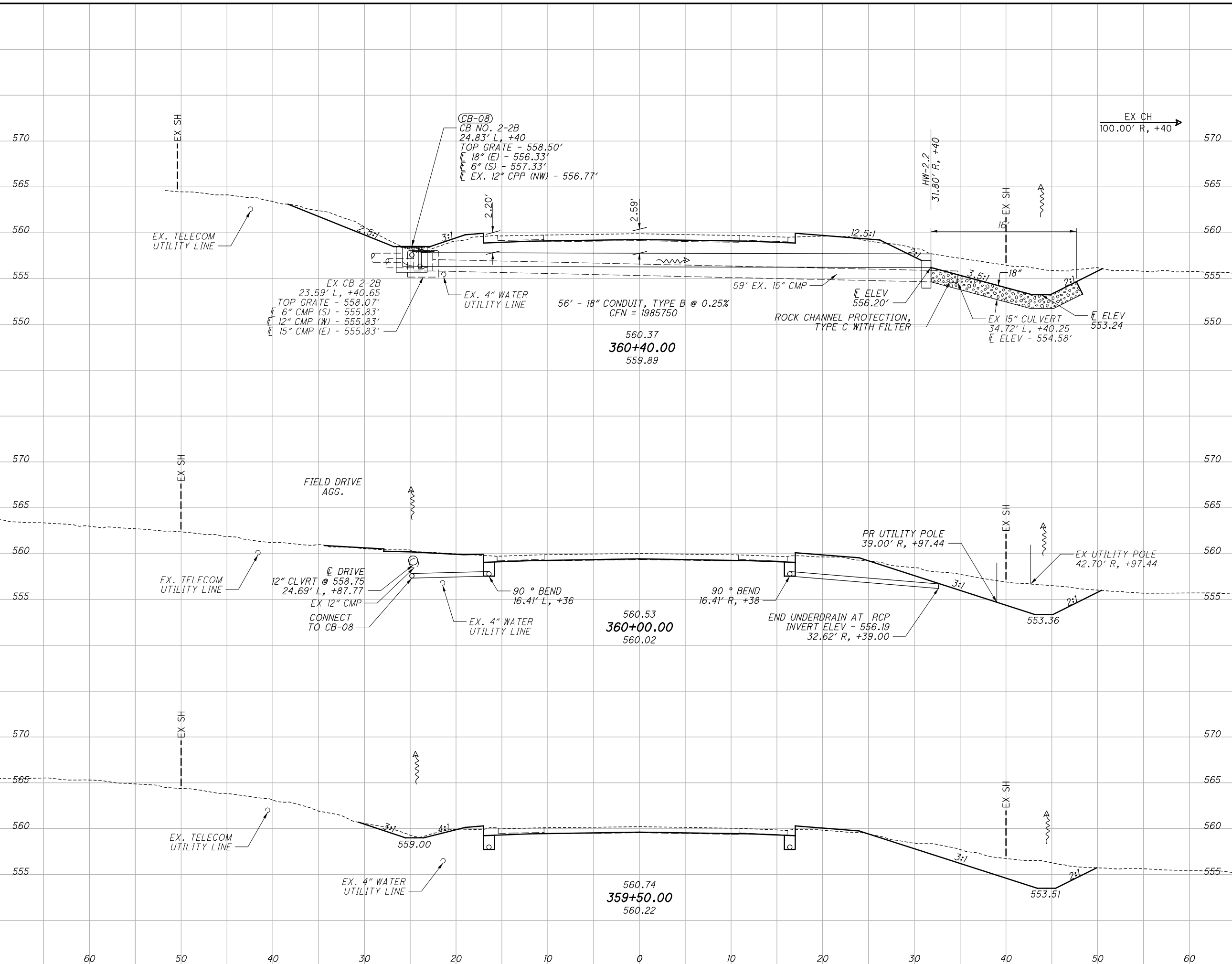
GAL-7-5.22

164
 348

I:\ProjectData\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\01518_XS001.dgn Sheet 1/13/2021 9:01:01 AM KKLESKI

I:\ProjectData\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\01518_XS001.dgn Sheet 1/13/2021 9:04 AM KKLESKI

SEEDING	
END WIDTH	SO. FT.
4,781	
60	
50	
40	
30	
20	
10	
0	
10	
20	
30	
40	
50	
60	

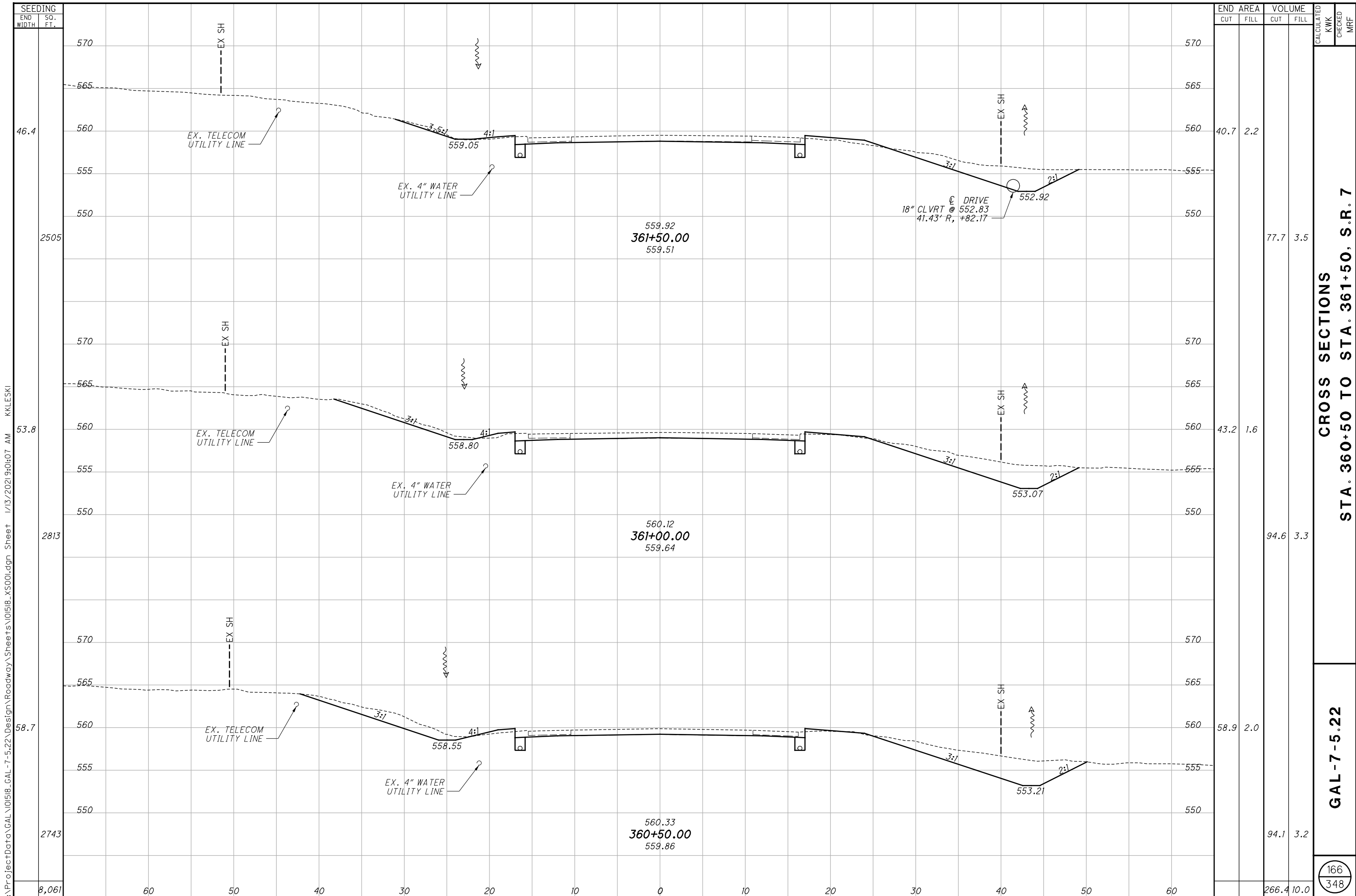


END AREA		VOLUME		CALCULATED	CHECKED	MRF
CUT	FILL	CUT	FILL			
42.7	1.5					
76.4	3.1					
39.8	1.9					
64.2	3.8					
140.6	6.9					

CROSS SECTIONS
STA. 359+50 TO STA. 360+40, S.R. 7

GAL-7-5.22

165
348



SEEDING
 END SO. FT.
 WIDTH FT.

46.4
 2505
 53.8
 2813
 58.7
 2743
 8,061

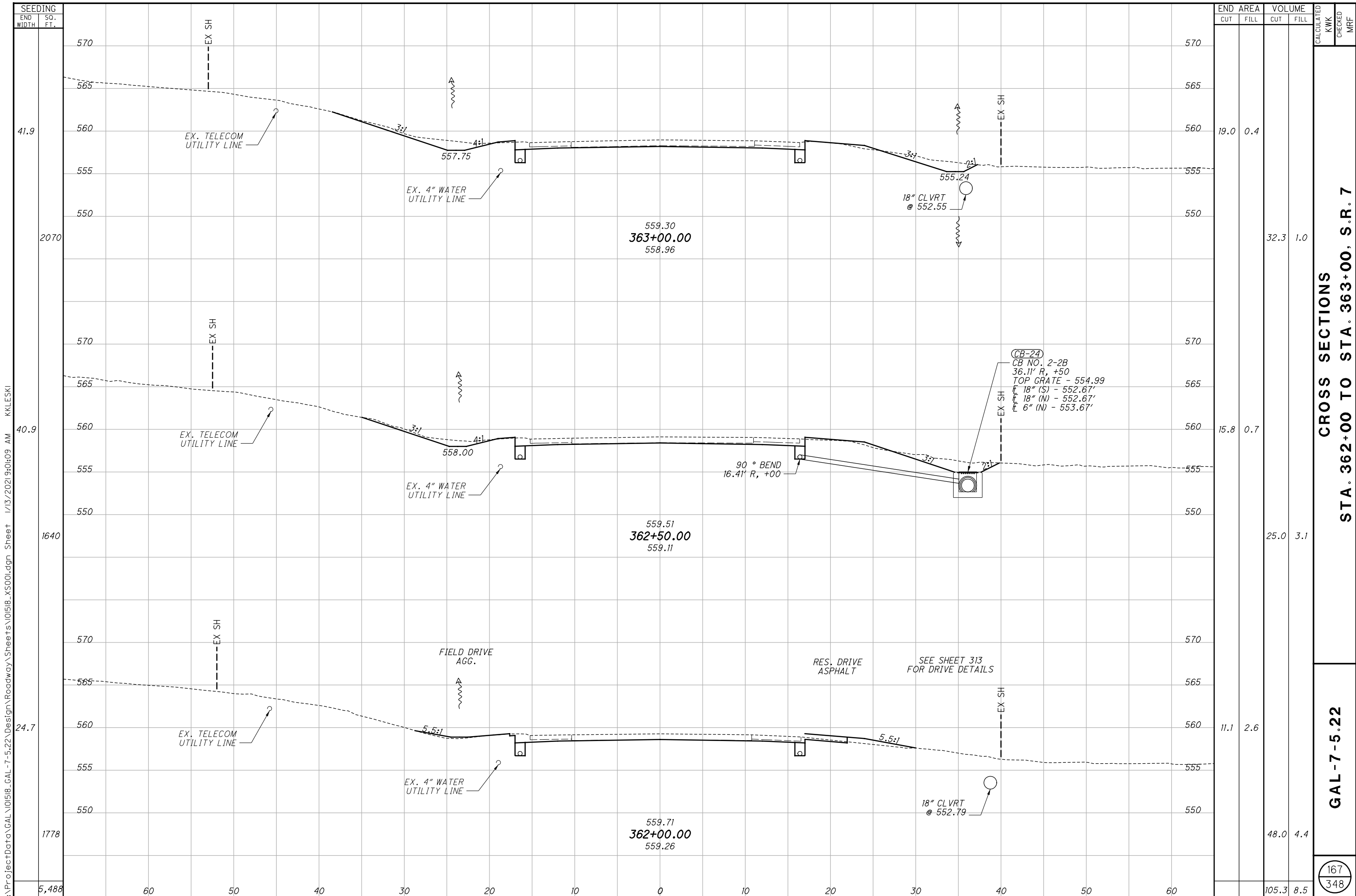
END AREA		VOLUME		CALCULATED KWK	CHECKED MRF
CUT	FILL	CUT	FILL		
40.7	2.2	77.7	3.5		
43.2	1.6	94.6	3.3		
58.9	2.0	94.1	3.2		
		266.4	10.0		

**CROSS SECTIONS
 STA. 360+50 TO STA. 361+50, S.R. 7**

GAL-7-5.22

166
 348

I:\ProjectData\GAL\101518_GAL-7-5.22\Design\Roadway\Sheets\101518_XS001.dgn Sheet 1/13/2021 9:01:07 AM KKLESKI



I:\ProjectData\GAL\101518_GAL-7-5.22\Design\Roadway\Sheets\101518_XS001.dgn Sheet 1/13/2021 9:01:09 AM KKLESKI

SEEDING		END AREA		VOLUME		CALCULATED		
END WIDTH	SO. FT.	CUT	FILL	CUT	FILL	KWK	CHECKED	MRF
41.9	2070	19.0	0.4	32.3	1.0			
40.9	1640	15.8	0.7	25.0	3.1			
24.7	1778	11.1	2.6	48.0	4.4			
5.488				105.3	8.5			

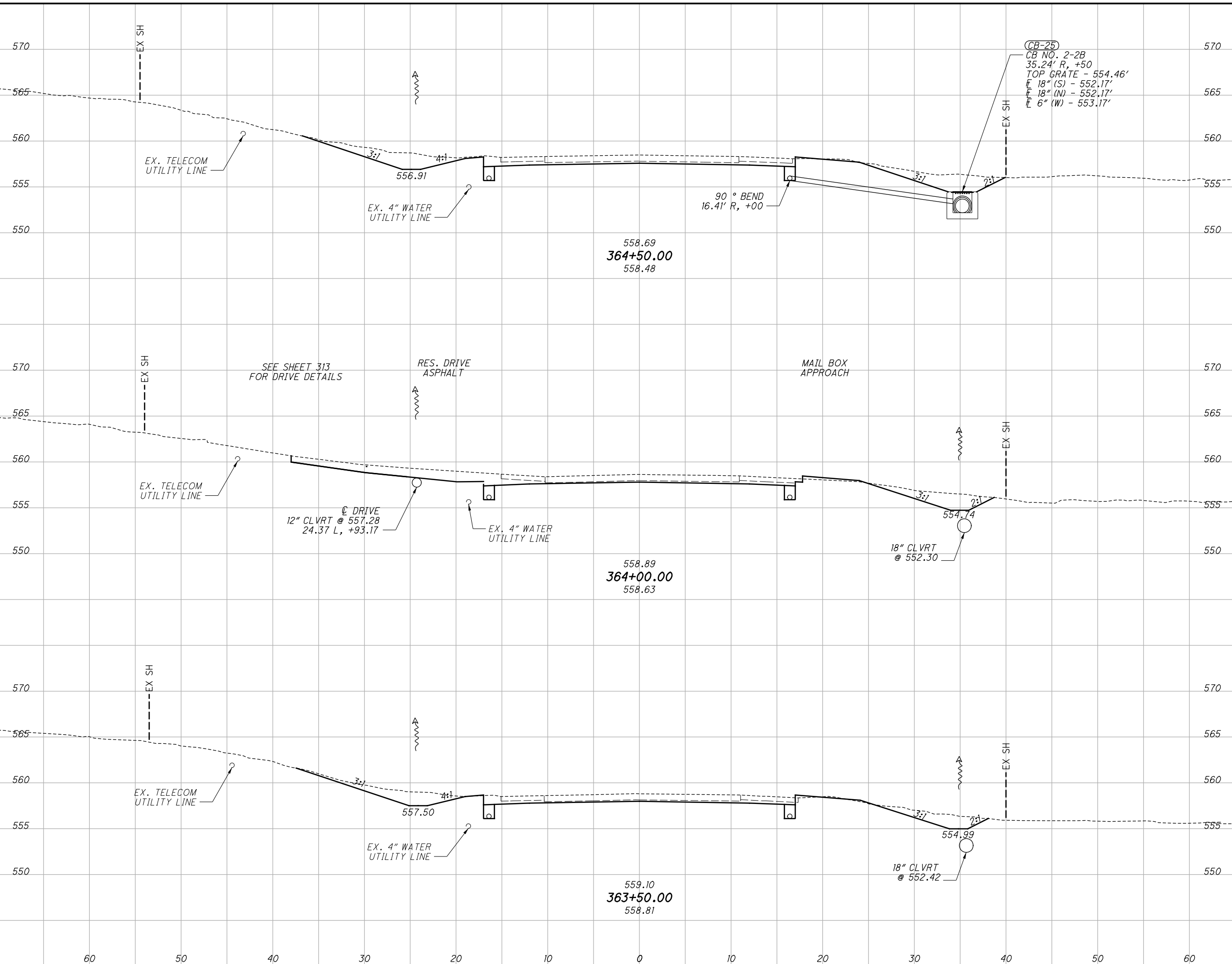
CROSS SECTIONS
STA. 362+00 TO STA. 363+00, S.R. 7

GAL-7-5.22

167
 348

I:\ProjectData\GAL\101518_GAL-7-5.22\Design\Roadway\Sheets\101518_XS001.dgn Sheet 1/13/2021 9:01:12 AM KKLESKI

SEEDING	END AREA		VOLUME		CALCULATED	CHECKED	MRF
	CUT	FILL	CUT	FILL			
END WIDTH	42.9	42.9	49.3	0.2			
SO. FT.	2145	2115	87.4	1.1			
	2115	2090	45.0	1.0			
	41.7	2090	65.0	1.4			
	6,350	193.3	25.1	0.5			
			40.9	0.8			
			193.3	3.3			



CB-25
 CB NO. 2-2B
 35.24' R, +50
 TOP GRATE - 554.46'
 E 18" (S) - 552.17'
 E 18" (N) - 552.17'
 E 6" (W) - 553.17'

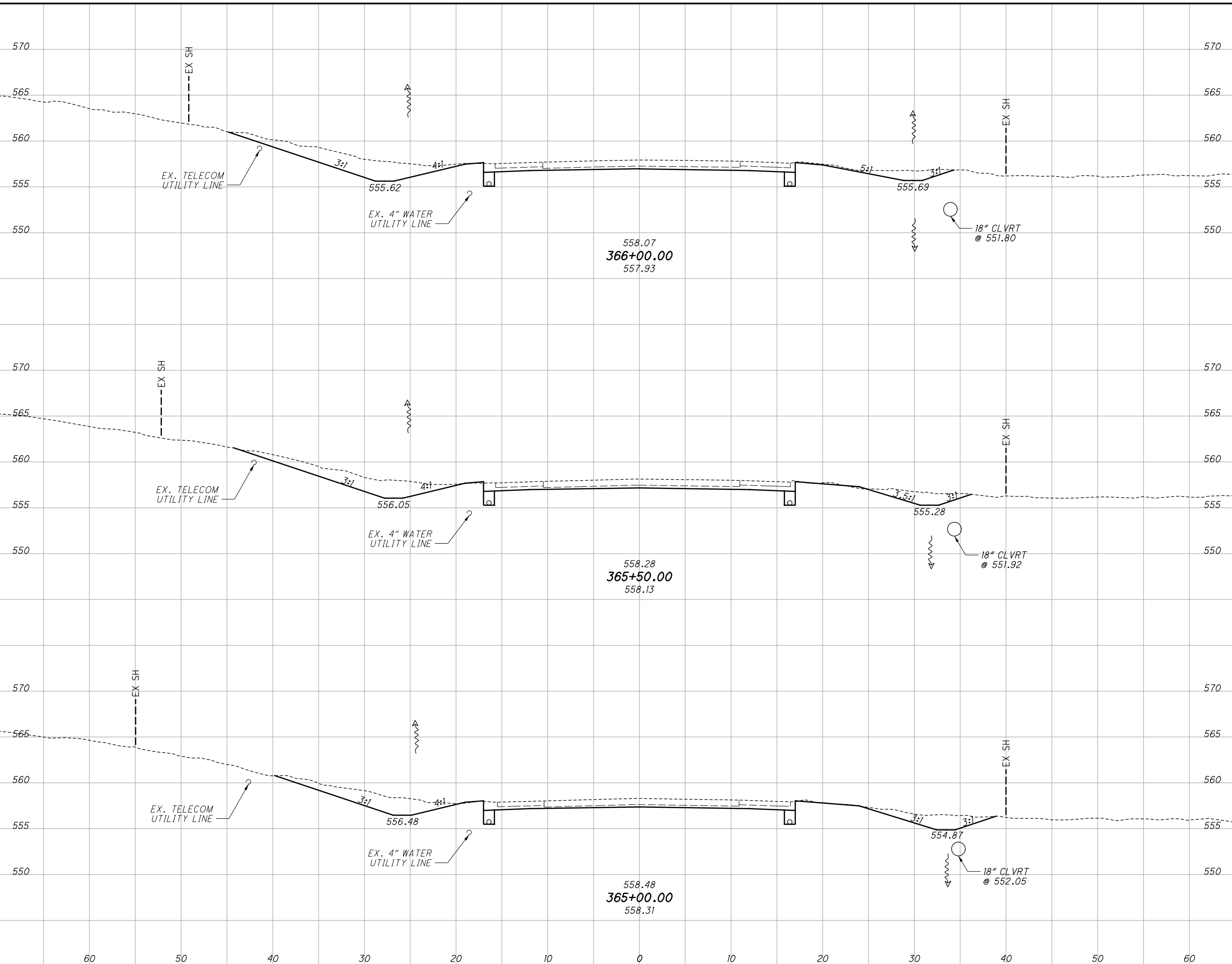
CROSS SECTIONS
 STA. 363+50 TO STA. 364+50, S.R. 7

GAL-7-5.22

168
 348

I:\ProjectData\GAL\101518_GAL-7-5.22\Design\Roadway\Sheets\101518_XS001.dgn Sheet 1/13/2021 9:01:15 AM KKLESKI

SEEDING	
END WIDTH	SO. FT.
45.2	2298
46.7	2288
44.8	2193
6.779	



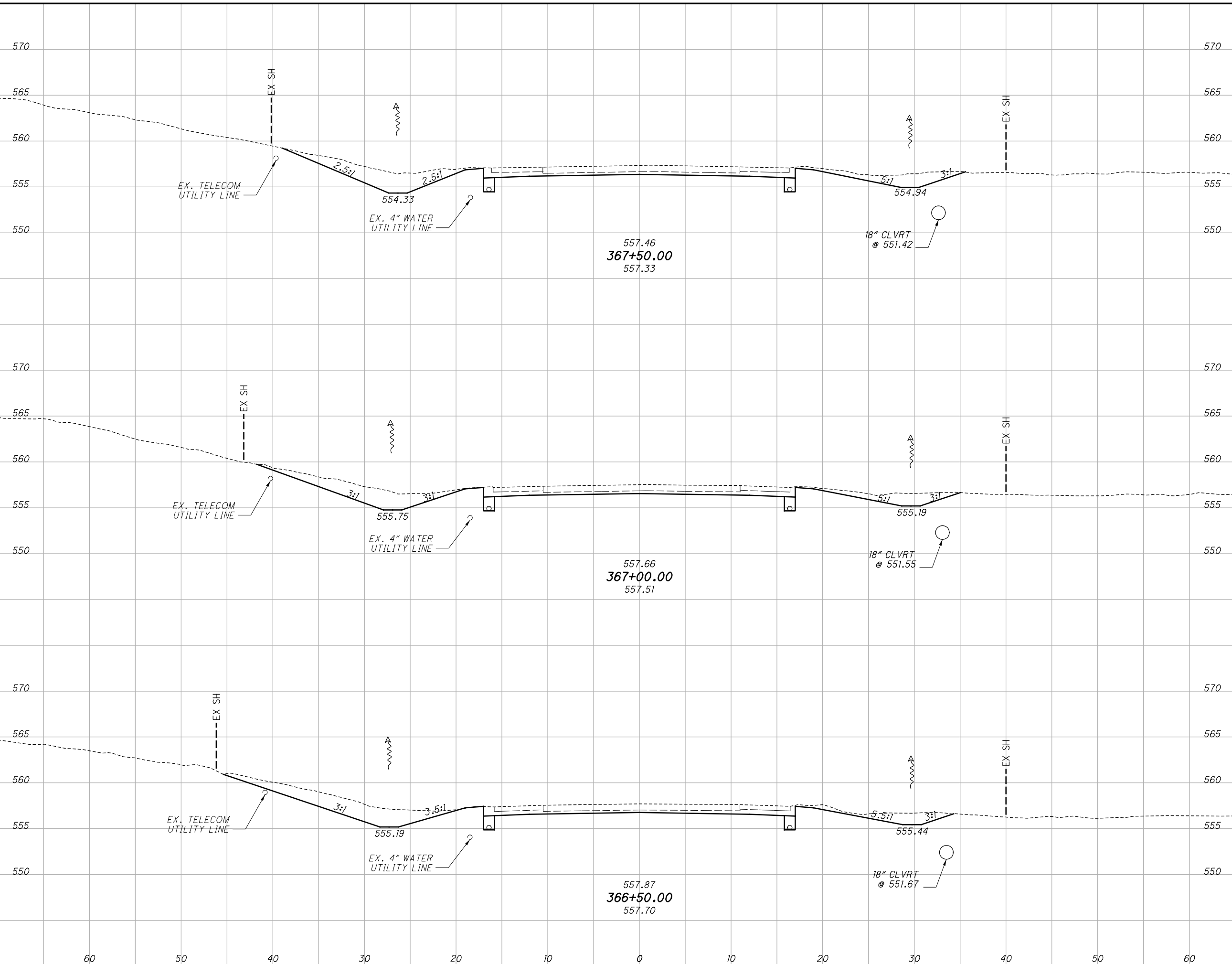
END AREA		VOLUME	
CUT	FILL	CUT	FILL
54.9	0.1	90.0	0.6
42.3	0.5	74.4	0.6
38.0	0.2	80.9	0.4
		245.3	1.6

CROSS SECTIONS
STA. 365+00 TO STA. 366+00, S.R. 7
GAL-7-5.22

CALCULATED: 169
 CHECKED: 348
 MRF

I:\ProjectData\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\01518_XS001.dgn Sheet 1/13/2021 9:01:17 AM KKLESKI

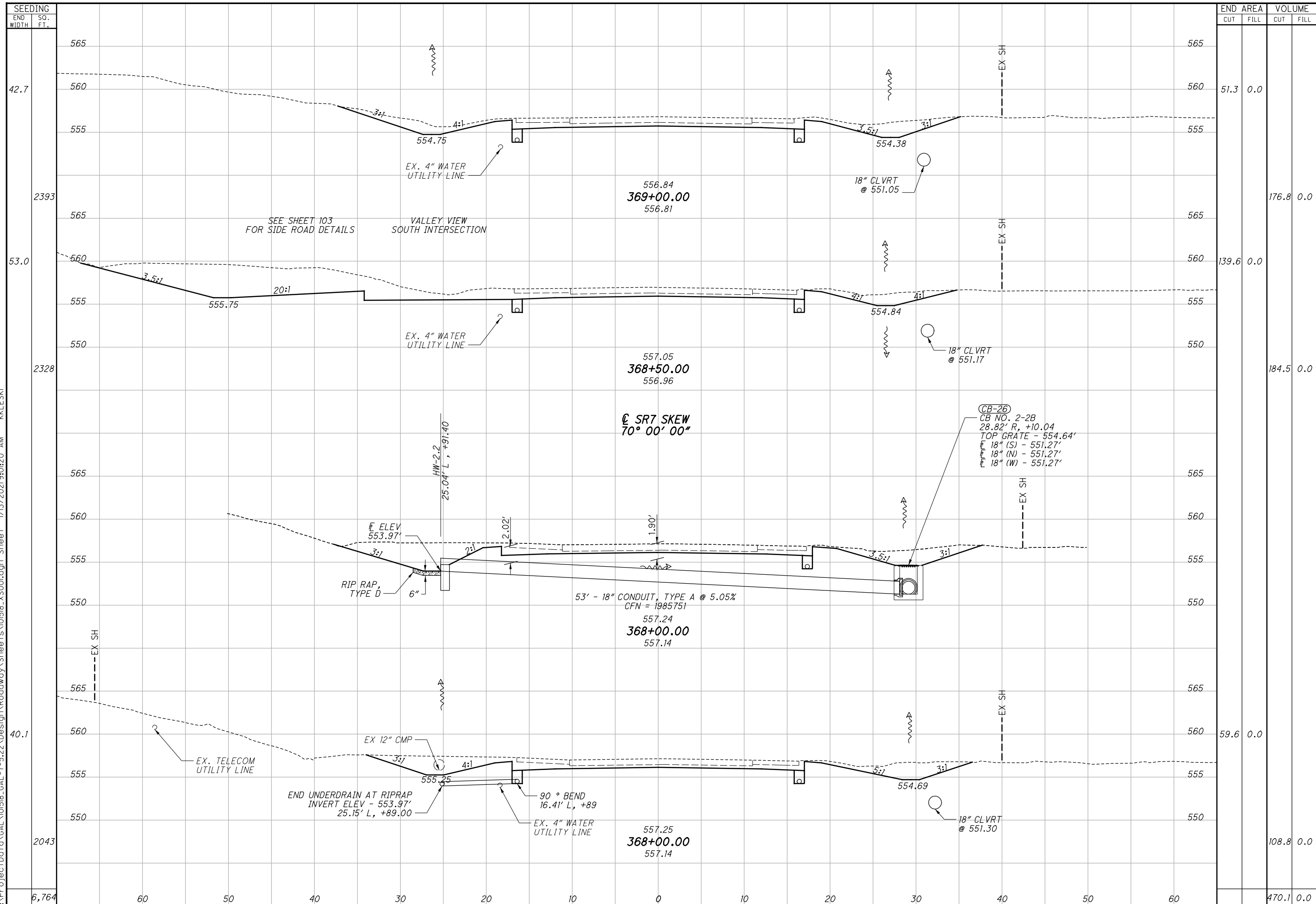
SEEDING	END AREA		VOLUME		CALCULATED	CHECKED	MRF
	CUT	FILL	CUT	FILL			
41.6	57.8	0.0	104.5	0.0			
45.9	55.0	0.0	104.9	0.0			
45.8	58.2	0.0	104.8	0.1			
6,756			314.2	0.1			



SEEDING	END AREA		VOLUME		CALCULATED	CHECKED	MRF
	CUT	FILL	CUT	FILL			
41.6	57.8	0.0	104.5	0.0			
45.9	55.0	0.0	104.9	0.0			
45.8	58.2	0.0	104.8	0.1			
6,756			314.2	0.1			

CROSS SECTIONS
STA. 366+50 TO STA. 367+50, S.R. 7
GAL-7-5.22
 170
 348

I:\ProjectData\GAL-7-5.22\Design\Roadway\Sheets\01518_XS001.dgn Sheet 1/13/2021 9:01:20 AM KKLESKI



SEEDING		END AREA		VOLUME		CALCULATED	CHECKED	MRF
END WIDTH	SO. FT.	CUT	FILL	CUT	FILL	KWK	KWK	MRF
42.7	565	51.3	0.0					
2393	560			176.8	0.0			
53.0	555	139.6	0.0					
2328	550			184.5	0.0			
565	565							
560	560							
555	555							
550	550							
40.1	565	59.6	0.0					
2043	560			108.8	0.0			
6,764	555			470.1	0.0			

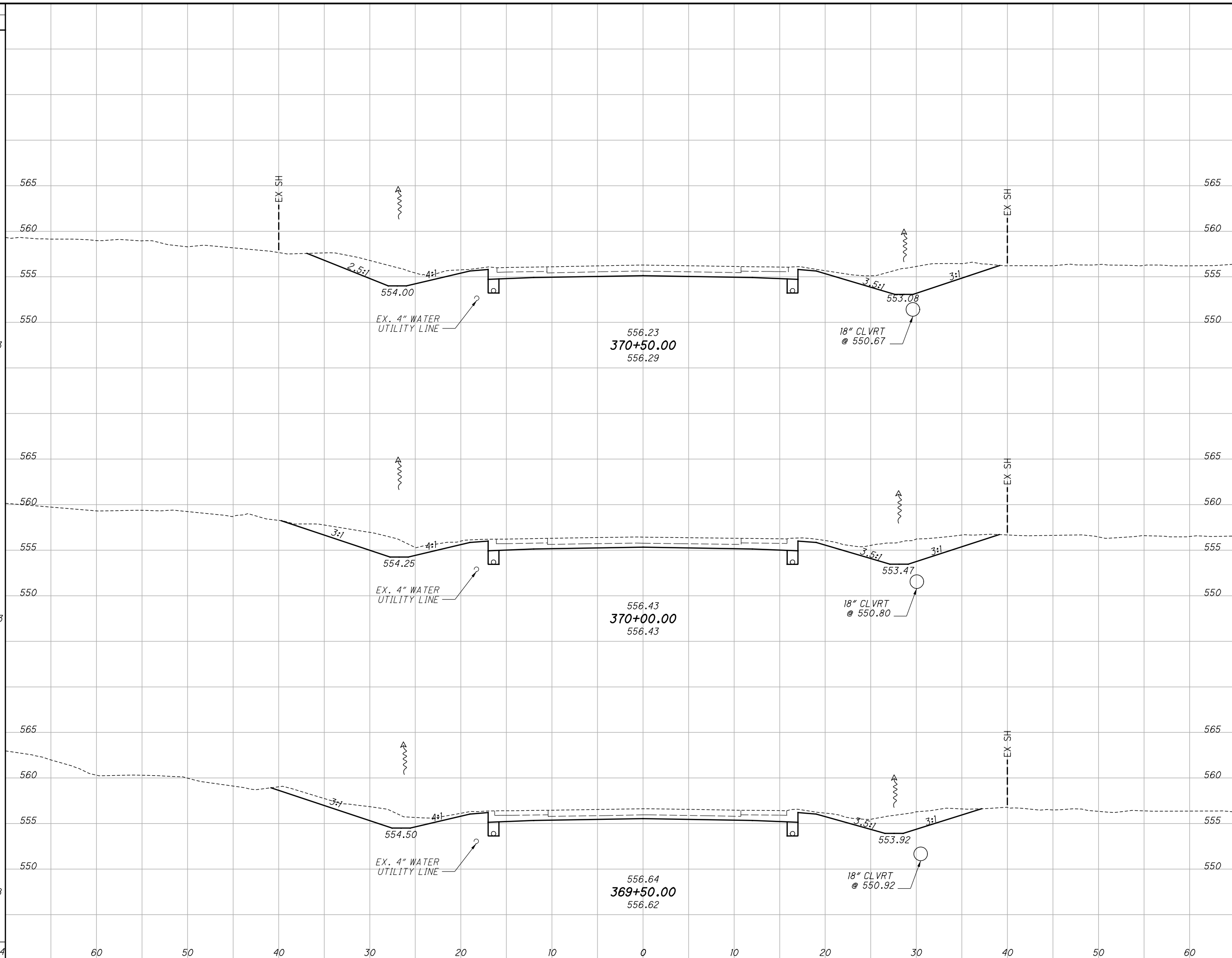
CROSS SECTIONS
STA. 368+00 TO STA. 369+00, S.R. 7

GAL-7-5.22

171
348

I:\ProjectData\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\01518_XS001.dgn Sheet 1/13/2021 9:01:23 AM KKLESKI

SEEDING	
END WIDTH	SO. FT.
42.0	2163
44.5	2233
44.8	2188
6.584	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
78.0	0.0	141.4	0.0
74.7	0.0	127.7	0.0
63.2	0.0	106.1	0.0
		449.1	0.0

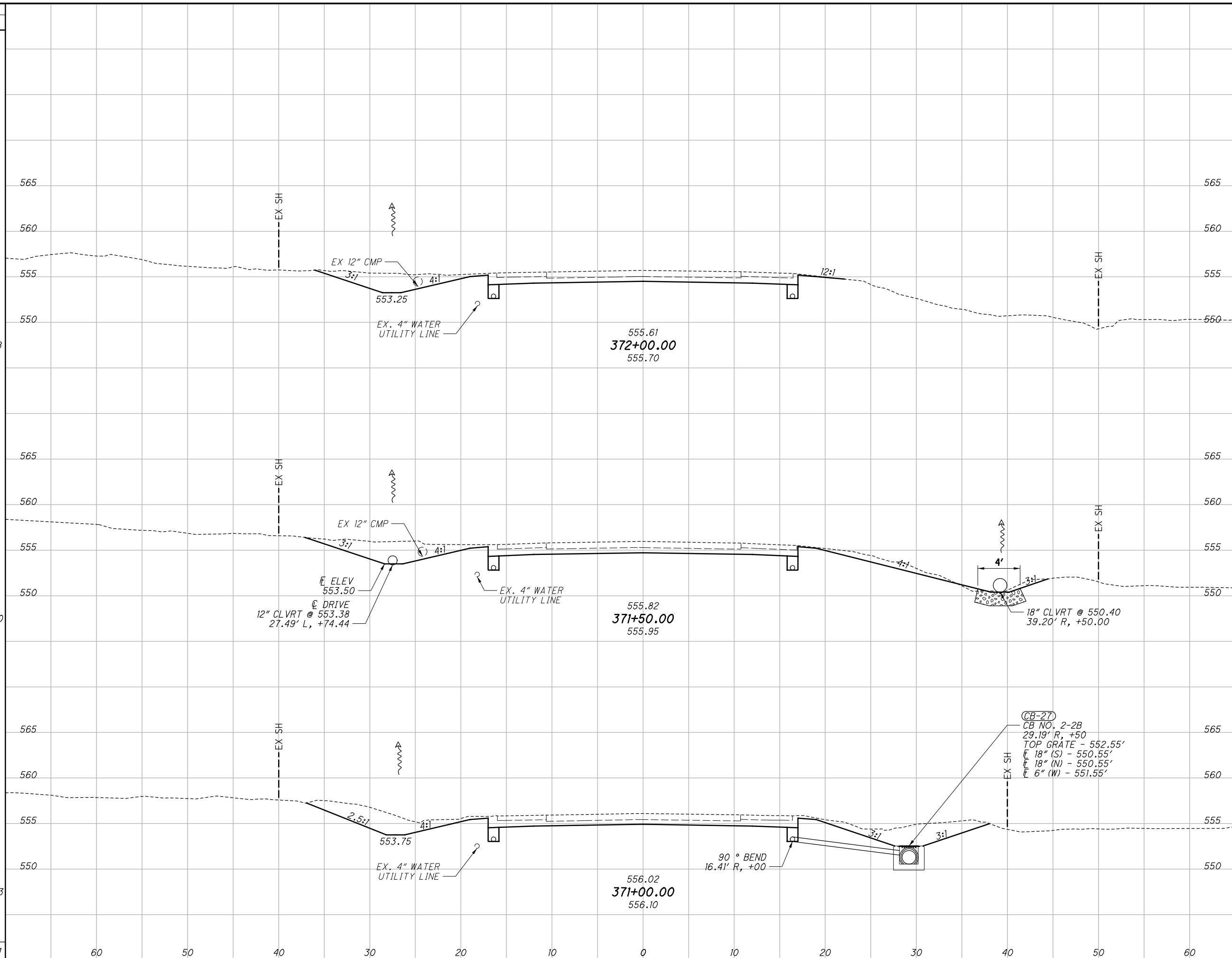
CROSS SECTIONS
STA. 369+50 TO STA. 370+50, S.R. 7

GAL-7-5.22

CALCULATED	KWK
CHECKED	MRF
172	348

I:\ProjectData\GAL\01518_GAL-7-5.22\Design\Roadway\Sheets\01518_XS001.dgn Sheet 1/13/2021 9:01:25 AM KKLESKI

SEEDING	
END WIDTH	SO. FT.
24.8	
1798	
47.1	
2220	
41.7	
2093	
6,111	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
46.2	0.0	96.8	0.5
58.3	0.5	122.8	0.5
74.3	0.0	141.1	0.0
		360.7	1.0

CROSS SECTIONS
 STA. 371+00 TO STA. 372+00, S.R. 7
 GAL-7-5.22
 173
 348