

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

**LIC-37 / 661-16.59 / 0.00**

**VILLAGE OF GRANVILLE  
GRANVILLE TOWNSHIP  
LICKING COUNTY**

**PROJECT DESCRIPTION**

BRIDGE REPLACEMENT AND WIDENING OF THE EXISTING SR 661 OVER SR 16 BRIDGE (LIC-661-0.030). WORK INCLUDES RECONSTRUCTION OF THE SR 37/661 & SR 16 INTERCHANGE RAMP AND PAVEMENT WIDENING OF SR 37/661 FOR TURN LANES.

PROJECT EARTH DISTURBED AREA: 13 ACRES  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 2 ACRES  
NOTICE OF INTENT EARTH DISTURBED AREA: 15 ACRES

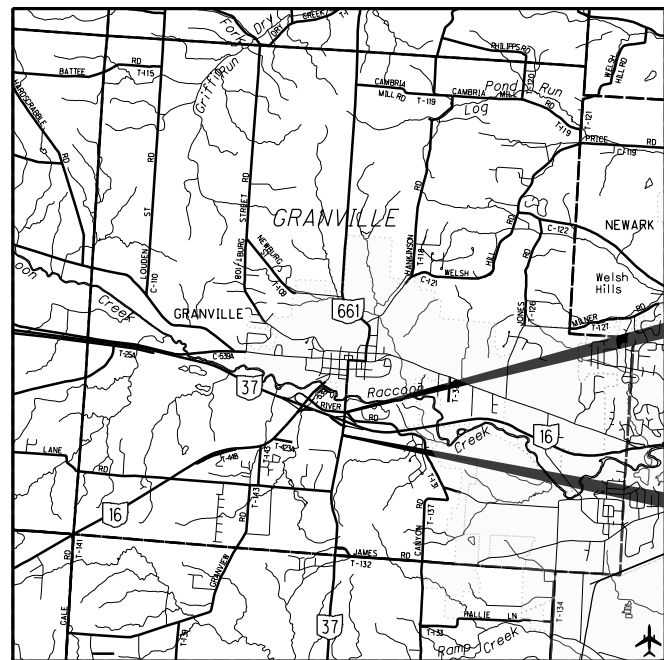
**LIMITED ACCESS**

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

**2019 SPECIFICATIONS**

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

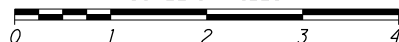
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE PART TIME CLOSING OF THE HIGHWAY TO TRAFFIC, AS NOTED ON SHEETS 31-35. DURING WHICH TIME DETOURS WILL BE PROVIDED AS SHOWN HEREIN. PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.



LOCATION MAP

LATITUDE: 40° 03' 32" LONGITUDE: -82° 31' 16"

SCALE IN MILES



PORTION TO BE IMPROVED	-----
INTERSTATE HIGHWAY	-----
FEDERAL ROUTES	-----
STATE ROUTES	-----
COUNTY & TOWNSHIP ROADS	-----
OTHER ROADS	-----

**DESIGN DESIGNATION**

S.R. 37/661

CURRENT ADT (2021)	7,370
DESIGN YEAR ADT (2041)	9,010
DESIGN HOURLY VOLUME (2041)	930
DIRECTIONAL DISTRIBUTION	53%
TRUCKS (24 HOUR B&C)	7%
DESIGN SPEED	45/35
LEGAL SPEED	45/35
DESIGN FUNCTIONAL CLASSIFICATION	URBAN MAJOR COLLECTOR
NHS PROJECT	NO

**DESIGN EXCEPTIONS:**

SUPERELEVATION (RAMP F) 6/08/2018

**UNDERGROUND UTILITIES**

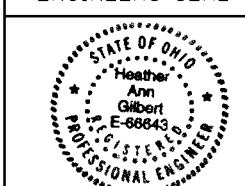


PLAN PREPARED BY:  
OHIO DEPARTMENT OF TRANSPORTATION  
DISTRICT 5 PLANNING & ENGINEERING

**INDEX OF SHEETS:**

TITLE SHEET	1	PLAN - RIVER ROAD CUL-DE-SAC	157
SCHEMATIC PLAN	2	CROSS SECTIONS - RIVER ROAD CUL-DE-SAC	158
TYPICAL SECTIONS	3-16	SUPERELEVATION TABLES	159-160
GENERAL NOTES	17-20	INTERSECTION DETAILS	161-165
MAINTENANCE OF TRAFFIC	21-68	CUL-DE-SAC DETAILS	166
GENERAL SUMMARY	69-76	BARRIER WALL DETAILS	167-169
SUBSUMMARIES	77-79	PAVEMENT JOINT DETAILS	170-174
CALCULATIONS	80-87	INTERCHANGE DETAILS	175-180
PROJECT SITE PLAN	88	DRAINAGE DETAILS	181-200
PLAN AND PROFILE - S.R. 16	89	TRAFFIC CONTROL	201-238
PLAN AND PROFILE - S.R. 37/661	90-94	TRAFFIC SIGNALS & LIGHTING	239-269
CROSS SECTIONS - S.R. 37/661	95-109	STRUCTURE OVER 20' SPAN FENCE	270-334
PLAN AND PROFILE - RAMP E	110		335-336
CROSS SECTIONS - RAMP E	111-113	RIGHT-OF-WAY	337-341
PLAN AND PROFILE - RAMP F	114-115	SOIL PROFILES	1-34
CROSS SECTIONS - RAMP F	116-120		
PLAN AND PROFILE - S.R. 16/RAMP G	121-123		
CROSS SECTIONS - S.R. 16/RAMP G	124-139		
PLAN AND PROFILE - RAMP H	140-142		
CROSS SECTIONS - RAMP H	143-150		
PLAN AND PROFILE - WEAVER DRIVE	151		
CROSS SECTIONS - WEAVER DRIVE	152-153		
PLAN AND PROFILE - RIVER ROAD	154		
CROSS SECTIONS - RIVER ROAD	155-156		

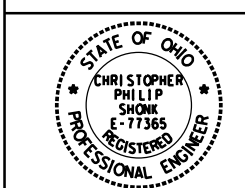
ENGINEERS SEAL:



SIGNED: Heather Ann Gilbert

DATE: 11/18/2019

ENGINEERS SEAL:



SIGNED: Christopher Shonk

DATE: 11/18/2019

STANDARD CONSTRUCTION DRAWINGS										SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-2.1	7/17/15	MGS-1.1	1/19/18	MT-95.31	7/19/19	HL-10.11	7/19/19	TC-42.10	10/18/13	800-2019	10/18/19	ASBESTOS SURVEY
BP-2.2	7/18/08	MGS-2.1	1/19/18	MT-95.41	7/21/17	HL-10.12	1/20/17	TC-42.20	10/18/13	809	10/18/19	REPORT
BP-3.1	10/18/19	MGS-3.1	1/19/18	MT-95.50	7/21/17	HL-10.13	7/20/18	TC-51.11	1/15/16	813	10/19/18	06/07/18
BP-4.1	7/19/13	MGS-3.2	1/18/13	MT-96.11	1/18/19	HL-20.11	4/21/17	TC-52.10	10/18/13	823	7/18/14	
BP-5.1	1/18/19	MGS-4.2	7/19/13	MT-96.20	7/15/16	HL-20.14	1/18/19	TC-52.20	7/20/18	832	10/19/18	
		MGS-5.2	7/15/16	MT-96.26	1/18/19	HL-30.21	1/17/14	TC-61.10	1/17/14	840	1/18/19	
CB-2.1	7/20/18	MGS-5.3	7/15/16	MT-97.12	1/20/17	HL-30.22	1/17/14	TC-61.30	7/19/19	867	1/18/19	
CB-2.2	7/20/18			MT-99.20	4/19/19	HL-30.32	1/17/14	TC-65.10	1/17/14	878	1/18/19	
CB-3.2	1/15/16	HW-2.1	7/20/18	MT-99.60	7/15/16	HL-40.20	7/20/18	TC-65.11	7/21/17	902	7/19/19	
		HW-2.2	7/20/18	MT-101.60	1/20/17	HL-50.11	1/16/15	TC-71.10	1/19/18	913	4/21/17	
I-2.3	1/15/16			MT-101.70	7/20/18	HL-50.21	1/18/19	TC-73.20	7/21/17	916	1/19/18	
F-1.1	7/19/13	RM-1.1	7/18/14	MT-101.75	7/15/16	HL-60.11	7/21/17	TC-81.21	1/18/19			
F-3.3	7/19/13	RM-4.2	10/24/19	MT-101.90	7/21/17	HL-60.31	1/18/19	TC-83.20	7/21/17			
		RM-4.3	7/18/14	MT-102.10	1/18/19			TC-85.10	1/18/19			
		RM-4.4	7/19/19	MT-102.20	4/19/19	TC-12.30	1/19/18	TC-85.20	7/20/18			
DM-1.1	7/21/17	RM-4.5	7/21/17	MT-103.10	1/19/18	TC-21.20	7/20/18	AS-1-15	7/17/15			
DM-1.2	1/18/13	RM-4.6	7/19/13	MT-105.10	7/19/13	TC-22.10	10/18/13	AS-2-15	1/18/19			
DM-3.1	1/18/13	RM-5.1	7/18/14	MT-120.00	1/19/18	TC-22.20	1/17/14	GSD-1-19	1/18/19			
DM-4.1	1/18/19					TC-41.10	7/19/13	PCB-91	1/18/13			
DM-4.2	7/20/12			ITS-12.50	7/19/19	TC-41.15	10/18/13	SBR-1-13	7/20/18			
DM-4.3	1/15/16			ITS-50.10	7/19/19	TC-41.20	10/18/13	SICD-1-96	7/18/14			
DM-4.4	1/15/16					TC-41.30	10/18/13	SICD-2-14	7/18/14			
						TC-41.50	10/18/13	VPF-1-90	7/20/18			

APPROVED: *Jason P. Stang*  
DATE: 11/15/19 DISTRICT DEPUTY DIRECTOR

APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_ DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO.  
**E 170 (636)**

PID NO.  
**92411**

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT  
**NONE**

LIC-37 / 661-16.59 / 0.00

1  
341

I:\ProjectData\LIC\_92411\Design\Roadway\Sheet\92411\_GTO01.dgn Sheet 1/15/2020 8:07:52 AM bharlow

**ITEM 614 MAINTAINING TRAFFIC**

TRAFFIC SHALL BE MAINTAINED AS PER THE DETAIL SHEETS AND SPECIFICATIONS AND AS OUTLINED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION. IN ADDITION, THE FOLLOWING REQUIREMENTS SHALL APPLY:

THE CONTRACTOR SHALL SUBMIT, IN WRITING A SCHEDULE OF OPERATIONS TO THE DISTRICT DEPUTY DIRECTOR AND RECEIVE APPROVAL BEFORE WORK IS STARTED ON THE PROJECT.

BEFORE WORK BEGINS, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF A PERSON OR PERSONS WHO CAN BE CONTACTED 24 HOURS A DAY BY THE OHIO DEPARTMENT OF TRANSPORTATION AND ALL INTERESTED POLICE AGENCIES. THIS PERSON OR PERSONS SHALL BE RESPONSIBLE FOR REPLACING NECESSARY TRAFFIC CONTROL DEVICES IMMEDIATELY, AS PER CMS 614.03.

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR THE PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL REQUIRED TRAFFIC CONTROL DEVICES SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

DRUMS SHALL BE PROPERLY REFLECTORIZED (HIGH INTENSITY, FLORESCENT SHEETING) PLASTIC DRUMS AND WEIGHTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL INVOLVED IN PLACING AND REMOVING ITEM 622 PORTABLE CONCRETE BARRIER, 32".

THE CONTRACTOR SHALL ARRANGE HIS OPERATIONS SO AS TO PREVENT ANY INTERFERENCE TO THE CONTINUOUS FLOW OF TRAFFIC. ALL VEHICLES, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE ROADWAY UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER.

TEMPORARY FEATHERS USING ITEM 441 WILL BE REQUIRED AT ANY LOCATION DESIGNATED BY THE PROJECT ENGINEER. THEY SHALL BE INSTALLED ACCORDING TO BP-3.1 AND REMOVED WHEN NO LONGER REQUIRED.

THE PLANS INDICATE THE MINIMUM SIGNAGE WHICH MUST BE INSTALLED AND/OR MAINTAINED DURING ALL PHASES OF CONSTRUCTION.

EXISTING SIGNS OR CONTRACTOR SUPPLIED SIGNS SHALL BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE, ERECT AND MAINTAIN SIGNS AND SIGN SUPPORTS, AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPE AND LOCATION AS SHOWN IN THE PLANS.

ANY CONFLICTING SIGNS AND PAVEMENT MARKINGS WHETHER INSIDE OR OUTSIDE THE WORK LIMITS SHALL BE REMOVED OR COVERED AND TEMPORARY SIGNS AND MARKINGS ERECTED AND PLACED WHEN APPLICABLE BY THE CONTRACTOR.

THE ENGINEER SHALL RECORD INSTALLATION, REMOVAL, COVERING, UNCOVERING OR REERECTION OF SIGNS IN THE PROJECT DIARY.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS AS DESCRIBED ABOVE SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 MAINTAINING TRAFFIC, UNLESS ITEMIZED SEPARATELY IN THE PLAN.

PROTECTION OF TRAFFIC: PRIOR TO DEMOLITION OF ANY PORTIONS OF THE EXISTING SUPERSTRUCTURE, THE CONTRACTOR SHALL SUBMIT PLANS FOR THE PROTECTION OF TRAFFIC (VEHICULAR, PEDESTRIAN, ETC.) AS PER CMS 2019 501.05.B.2.

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY:

ITEM 614 MAINTAINING TRAFFIC LS

**ITEM 614, MAINTAINING TRAFFIC (LANE CLOSURE/REDUCTION REQUIRED)**

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

**ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)**

NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.

THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT OR NEAR THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.

NOTIFICATION TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS & < 2 WEEKS	7 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE

THE SIGN SHALL DISPLAY THE DATE OF THE CLOSURE IN MMM-DD FORMAT AND THE NUMBER OF DAYS OF THE CLOSURE. THE LAST LINE OF THE W20-H13 SIGN LISTS A PHONE NUMBER WHICH A MOTORIST MAY CALL FOR ADDITIONAL INFORMATION. THIS IS TO BE A SPECIFIC OFFICE WITHIN THE DISTRICT RATHER THAN THE GENERAL SWITCHBOARD NUMBER.

**ITEM 614 MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS)**

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES ON S.R. 16 SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS:

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANE(S) ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	6:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISCINCENTIVE IN THE AMOUNT OF \$150 FOR EACH MINUTE THE ABOVE DESCRIBED LANE RESTRICTIONS ARE VIOLATED.

**NOTIFICATION OF TRAFFIC RESTRICTIONS**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, IN WRITING, OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE D5 PUBLIC INFORMATION OFFICER (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVEABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE

ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
ROAD CLOSURES	>= 2 WEEKS	21 DAYS
	> 12 HOURS & < 2 WEEKS	14 DAYS
	<= 12 HOURS	4 DAYS
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	14 DAYS
	< 2 WEEKS	5 DAYS
START OF CONST. & TRAFFIC PATTERN CHANGE	N/A	14 DAYS

ANY UNFORSEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

**ITEM 615 ROADS FOR MAINTAINING TRAFFIC**

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED TO CONSTRUCT THE TEMPORARY PAVEMENT DURING PRE-PHASE AND PHASES IA AND IB. THE REMOVAL OF THE TEMPORARY PAVEMENT SHALL BE INCLUDED IN THIS ITEM. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO PERFORM THIS WORK AS PER ITEM 615.

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY:

ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN (SEE SHEET 36)  
 ITEM 615 ROADS FOR MAINTAINING TRAFFIC LS

**ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN**

AS PER THE REQUIREMENTS OF ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, THE CONTRACTOR SHALL PREPARE THE SUBGRADE AS PER 615.05. THE SUBGRADE SHALL BE COMPACTED IN ACCORDANCE TO 204.03 AND MUST HAVE A COMPACTED SUBGRADE. PAYMENT FOR THE SUBGRADE COMPACTION SHALL BE INCLUDED IN THE UNIT BID PRICE PER SQ.YD. FOR PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN.

**EARTHWORK FOR MAINTAINING TRAFFIC**

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLANS FOR INFORMATION ONLY:

EXCAVATION FOR MAINTAINING TRAFFIC 251 CY  
 EMBANKMENT FOR MAINTAINING TRAFFIC 209 CY  
 SEEDING & MULCHING FOR MAINTAINING TRAFFIC 1,858 SY

(SEE CROSS-SECTIONS SHEETS 38, 52, 53 & 63 FOR DETAILS)

**MAINTAINING EXISTING DRIVES**

THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RESIDENTIAL AND COMMERCIAL DRIVES TO THE FULLEST EXTENT POSSIBLE. IT IS UNDERSTOOD THAT FOR SHORT PERIODS OF TIME, THE FULL ACCESS TO A DRIVEWAY MAY NOT BE POSSIBLE. THE CONTRACTOR SHALL MAKE ACCOMODATIONS TO THE RESIDENCE/ BUSINESS OWNER SO THAT DURING THESE SHORT INTERVALS, THE HOME OR BUSINESS OWNER CAN STILL HAVE ACCESS TO PARK NEAR THEIR RESIDENCE OR BUSINESS.

PROPERTIES WITH MULTIPLE ACCESS POINTS: WORK AT ONE DRIVE AT A TIME.  
 PROPERTIES WITH A SINGLE ACCESS POINT: MAINTAIN ACCESS TO PROPERTY AT ALL TIMES USING ONE OF THE FOLLOWING METHODS: REPLACE DRIVEWAY USING PART WIDTH CONSTRUCTION, BACKFILL OPEN EXCAVATION WITH ITEM 304 AGGREGATE FOR TEMPORARY ACCESS, OR USE STEEL PLATES TO SPAN OVER OPEN EXCAVATIONS AND/OR CONCRETE NOT OUT OF CURE.

BEFORE ACCESS TO A DRIVEWAY IS INTERRUPTED, THE CONTRACTOR SHALL GIVE PRIOR NOTICE TO THE OCCUPANT OF THE PROPERTY 72 HOURS BEFORE THE WORK IS STARTED.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT U.S. MAIL OR ANY OTHER DELIVERY WITHIN THE PROJECT LIMITS IS NOT DISRUPTED BY CONSTRUCTION OPERATIONS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM 410 TRAFFIC COMPACTED SURFACE, TYPE A OR B 25 CY  
 ITEM 410 TRAFFIC COMPACTED SURFACE, TYPE C 25 CY  
 ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 40 CY

**MAINTAINING APPROACH ACCESS**

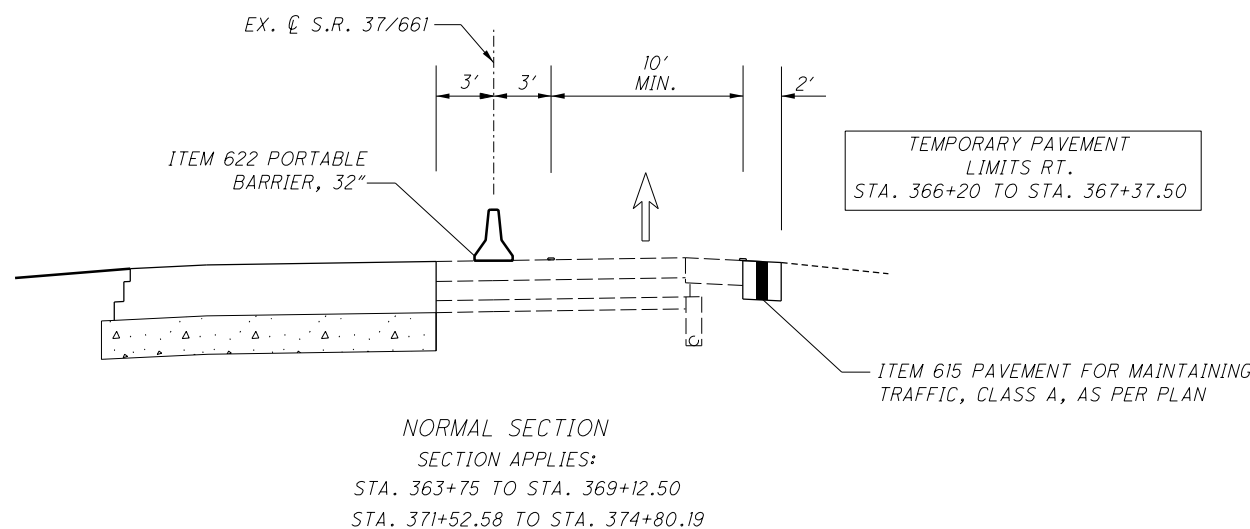
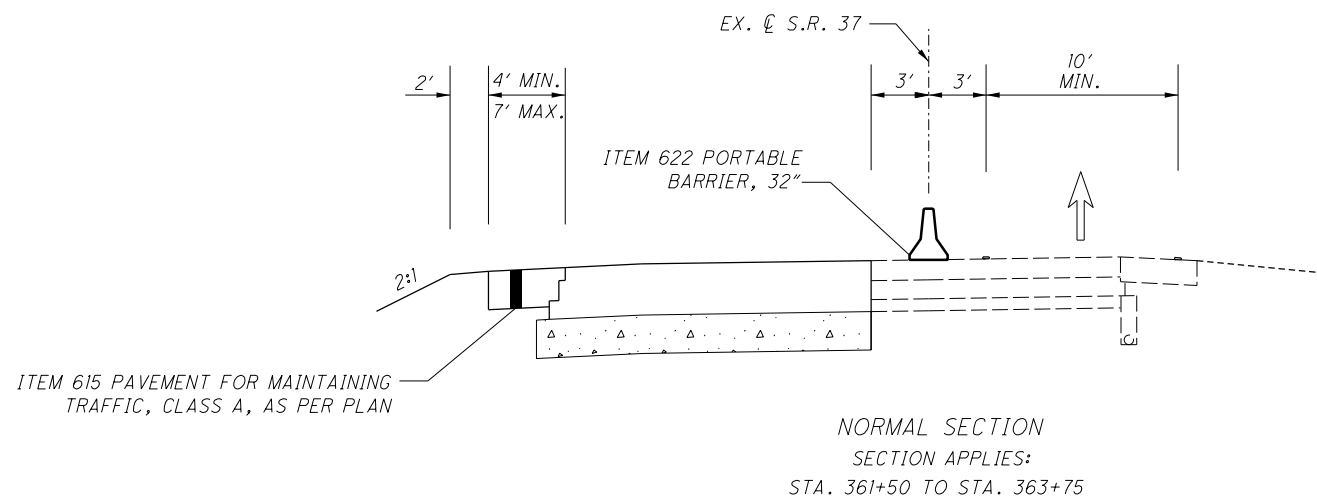
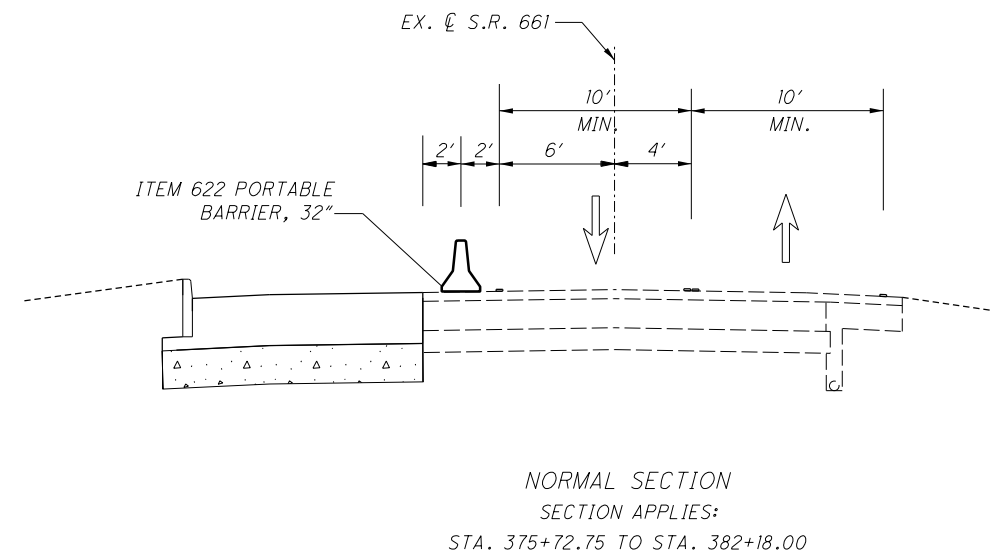
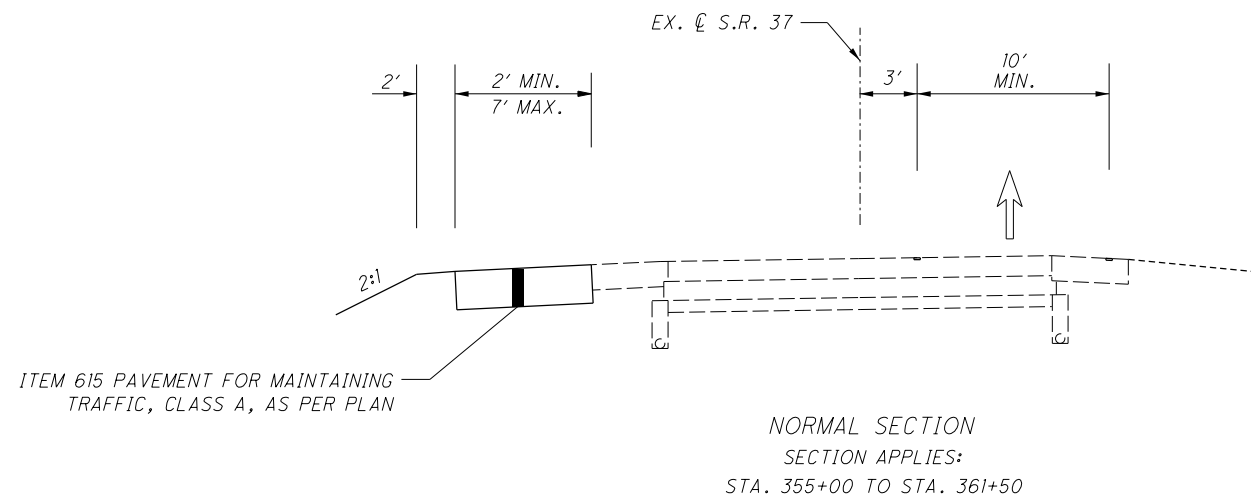
THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED TO CONSTRUCT THE TEMPORARY PAVEMENT WEDGE DURING PHASE IB ON RAMP H. THE REMOVAL OF THE TEMPORARY PAVEMENT SHALL BE INCLUDED IN THIS ITEM. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO PERFORM THIS WORK AS PER ITEM 615.

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY:

ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 10 CY

I:\Projec+Data\LIC\924\Design\01\Sheets\924\LN002.dgn Sheet 1/23/2020 9:30:14 AM ngilberl

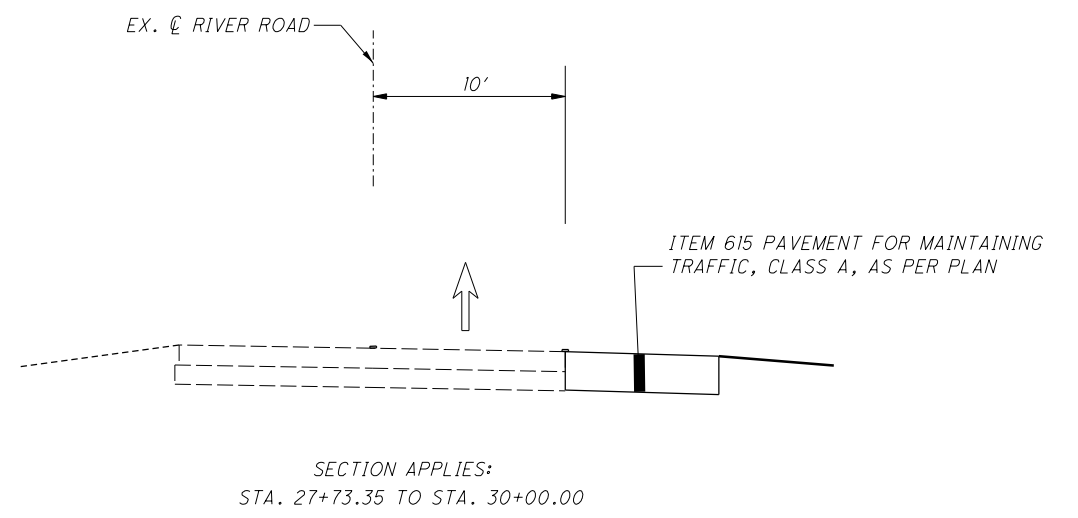
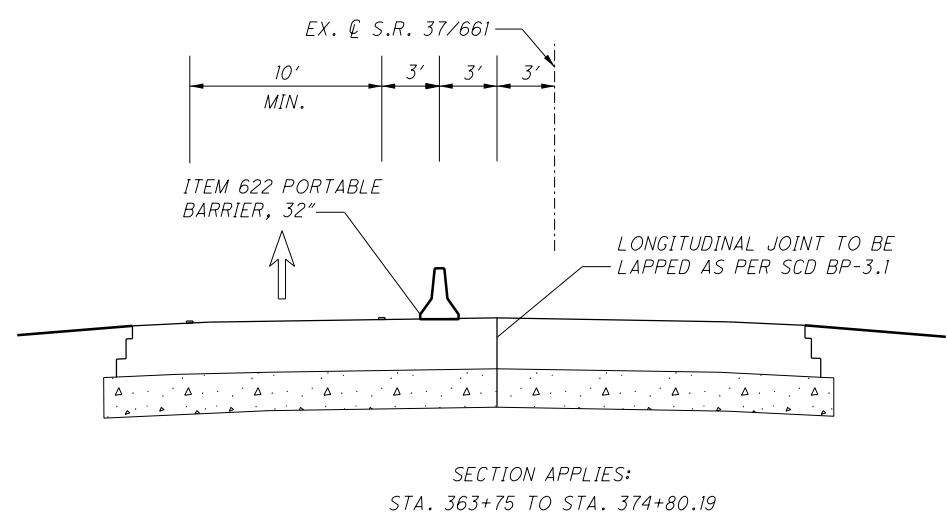
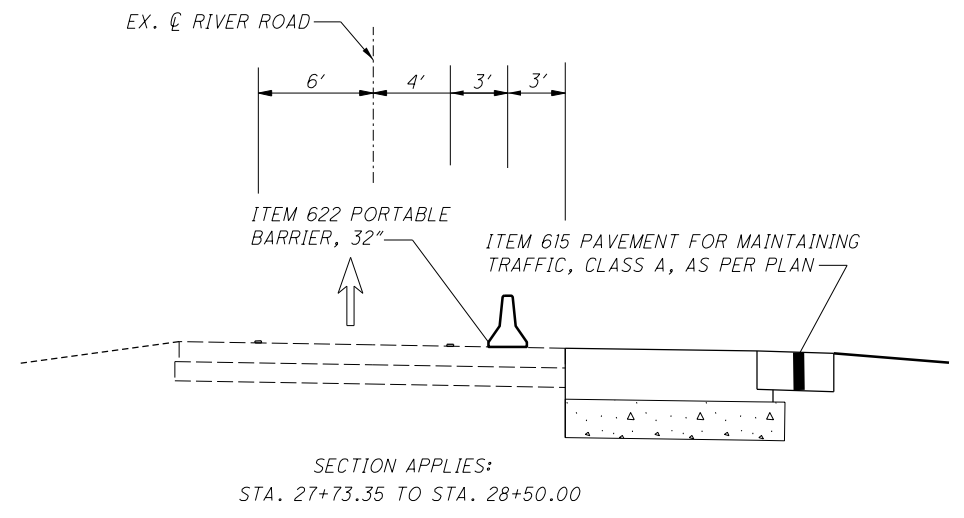
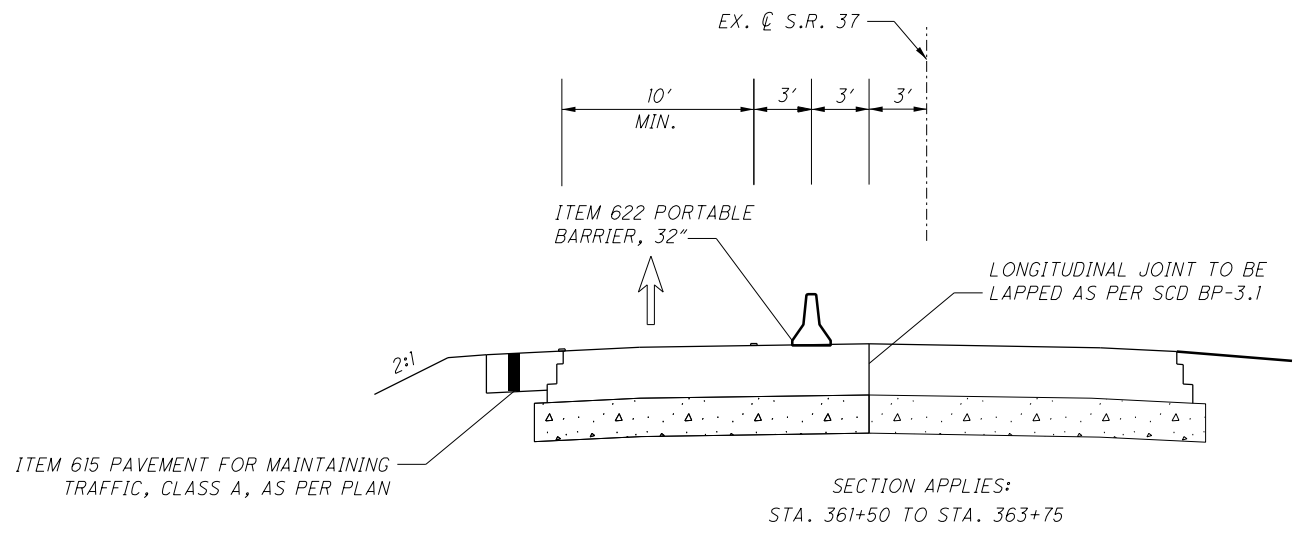
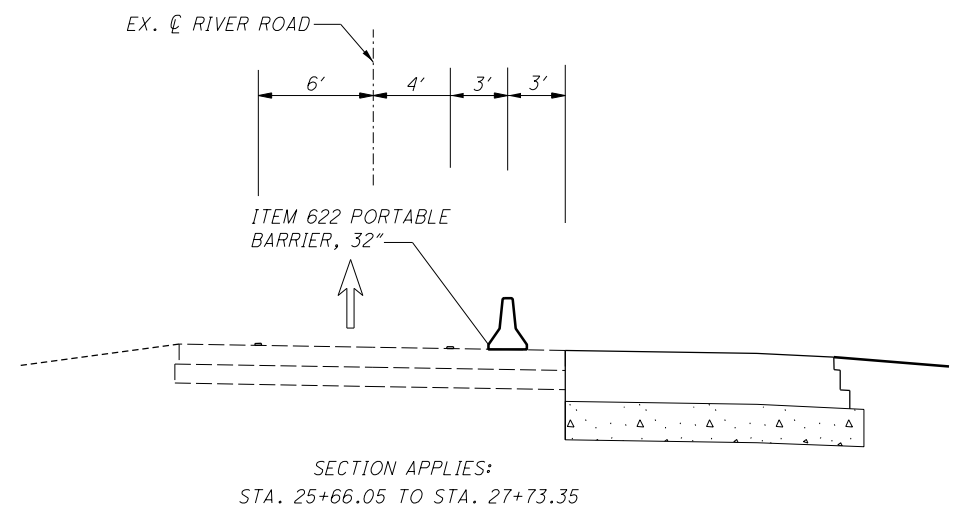
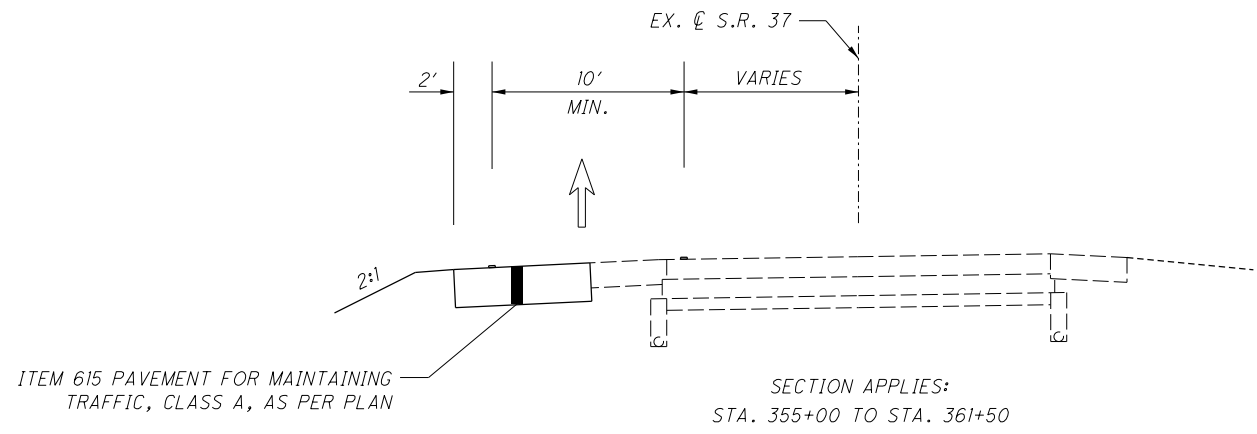
I:\Project+Data\LIC\_9241\Design\MOT\_Sheets\9241L\_MY001.dgn Sheet 1/23/2020 7:57:26 AM hgilber1



TEMPORARY PAVEMENT LIMITS RT. STA. 366+20 TO STA. 367+37.50

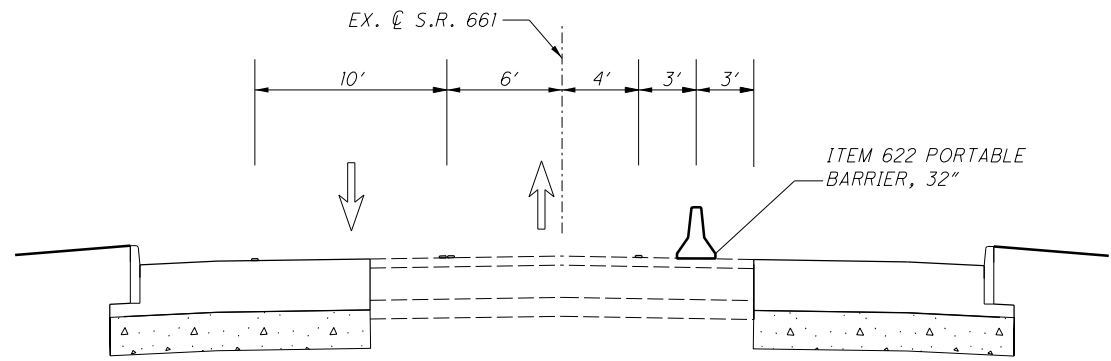
SEE BRIDGE MOT SHEET 276 FOR STA. 369+12.50 TO STA. 371+52.58

I:\Project+Data\LIC\924IL\Design\M0T\Sheets\924IL\_MY002.dgn Sheet 1/23/2020 8:00:32 AM hgliberl

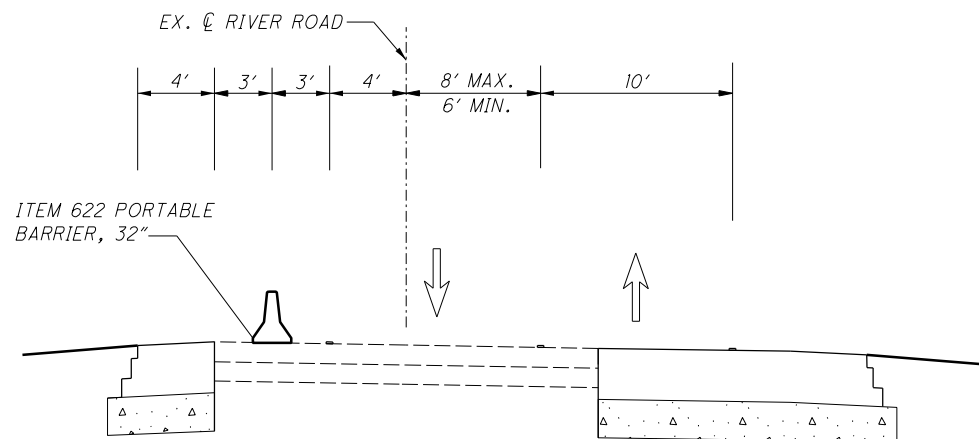


SEE BRIDGE MOT SHEETS 276 FOR STA. 369+12.50 TO STA. 371+52.58

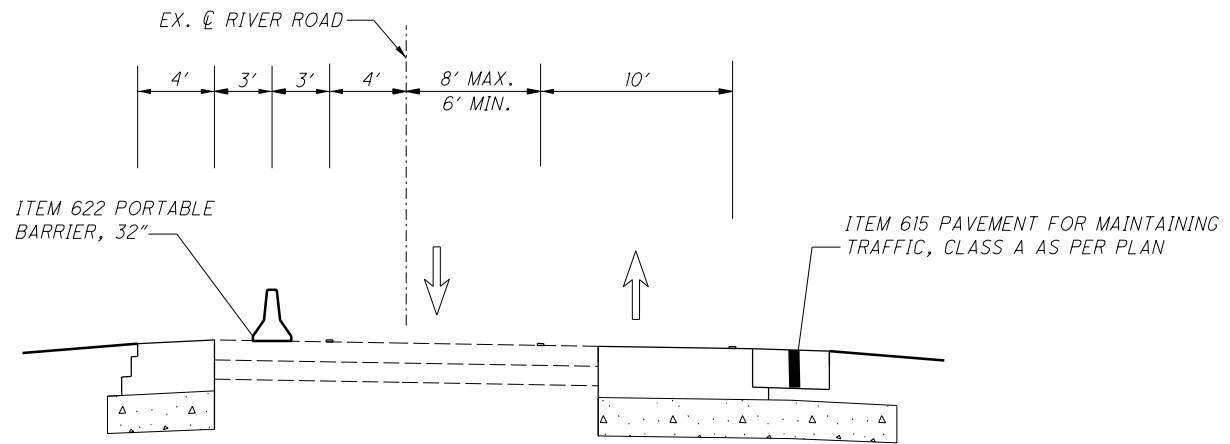
SEE BRIDGE MOT SHEET 277  
FOR STA. 369+12.50 TO STA. 371+52.58



SECTION APPLIES:  
STA. 375+76.25 TO STA. 382+18.00



SECTION APPLIES:  
STA. 25+07.20 TO STA. 27+73.35



SECTION APPLIES:  
STA. 27+73.35 TO STA. 28+39.30

I:\Project+Data\LIC\9241\Design\M0T\Sheets\9241L\MY003.dgn Sheet 1/23/2020 8:01:55 AM hgliberl

MOT TYPICAL SECTIONS PHASE 2A - S.R. 37 / S.R. 661 / RIVER RD.

LIC-37 / 661-  
16.59 / 0.00

I:\ProjectData\LIC\9241\Design\M01\Sheets\9241LMS001.dgn Sheet 1/23/2020 8:05:13 AM ngilberl

SHEET NO.	PHASING	614	614	614	614	614	614	614	614	614	614	614	614	614	614	614	615	622	622	670		
		WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL), 24"	WORK ZONE IMPACT ATTENUATOR (BIDIRECTIONAL), 24"	BARRIER REFLECTOR, TYPE 1 (UNIDIRECTIONAL)	BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)	OBJECT MARKER, ONE WAY	OBJECT MARKER, TWO WAY	WORK ZONE CENTER LINE, CLASS 1, 642 PAINT (DOUBLE SOLID)	WORK ZONE EDGE LINE, CLASS 1, 4", 642 PAINT (WHITE)	WORK ZONE EDGE LINE, CLASS 1, 4", 642 PAINT (YELLOW)	WORK ZONE EDGE LINE, CLASS 1, 6", 642 PAINT (WHITE)	WORK ZONE CHANNELIZING LINE, CLASS 1, 8", 642 PAINT	WORK ZONE DOTTED LINE, CLASS 1, 642 PAINT (WHITE)	WORK ZONE STOP LINE, CLASS 1, 642 PAINT	WORK ZONE ARROW, CLASS 1, 642 PAINT	WORK ZONE WORD ON PAVEMENT, 72", CLASS 1, 642 PAINT	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	PORTABLE BARRIER, 32"	PORTABLE BARRIER, 32", BRIDGE MOUNTED	DITCH EROSION PROTECTION MAT TYPE E		
		EACH	EACH	EACH	EACH	EACH	EACH	MILE	MILE	MILE	MILE	FT	FT	FT	EACH	EACH	SY	FT	FT	SY		
	<b>PLAN SPLIT CODE 02/NHS/PV</b>																					
39	PRE-PHASE													36								
40	PRE-PHASE													24								
37	PRE-PHASE									0.041	108				1	1	51					
42	PHASE 1A, 1B & 2A	4		40		39												2000				
44	PHASE 1A				11		10		0.071	0.104							28	350	200			
45	PHASE 1A		1		8		7	0.065	0.121	0.072				9				313	50			
54	PHASE 1A											0.057		300								
55	PHASE 1A											0.073		320								
59	PHASE 1B	1			9		8		0.087	0.087								191	250			
60	PHASE 1B				6		5	0.035	0.153	0.040				87	18			280				
65	PHASE 2A		1		6		5	0.083	0.184									63	200			
66	PHASE 2A		1		3		2	0.068	0.176					427	70			77	50			
	<b>PLAN SPLIT CODE 02/NHS/PV TOTAL</b>	5	3	40	43	39	37	0.251	0.792	0.303	0.171	108	1134	197	1	1	79	3274	750			
	<b>PLAN SPLIT CODE 03/S&lt;2/PV</b>																					
43	PHASE 1A	2			8		7		0.106	0.133							543	394		72		
46	PHASE 1A								0.186	0.350												
57	PHASE 1B								0.116	0.116				12								
58	PHASE 1B	1			13		12		0.208	0.208								641				
61	PHASE 1B								0.010	0.11												
62	PHASE 1B								0.067	0.076							159					
64	PHASE 2A								0.114	0.227												
67	PHASE 2A								0.155	0.350				22								
68	PHASE 2A								0.097	0.180												
	<b>PLAN SPLIT CODE 03/S&lt;2/PV TOTAL</b>	3			21		19	0.562	1.714	0.533				46			702	1035		72		
	<b>TOTALS CARRIED TO GENERAL SUMMARY</b>	8	3	40	64	39	56	0.81	3.34	0.17	108	1134	243	1	1	781	4309	750	72			

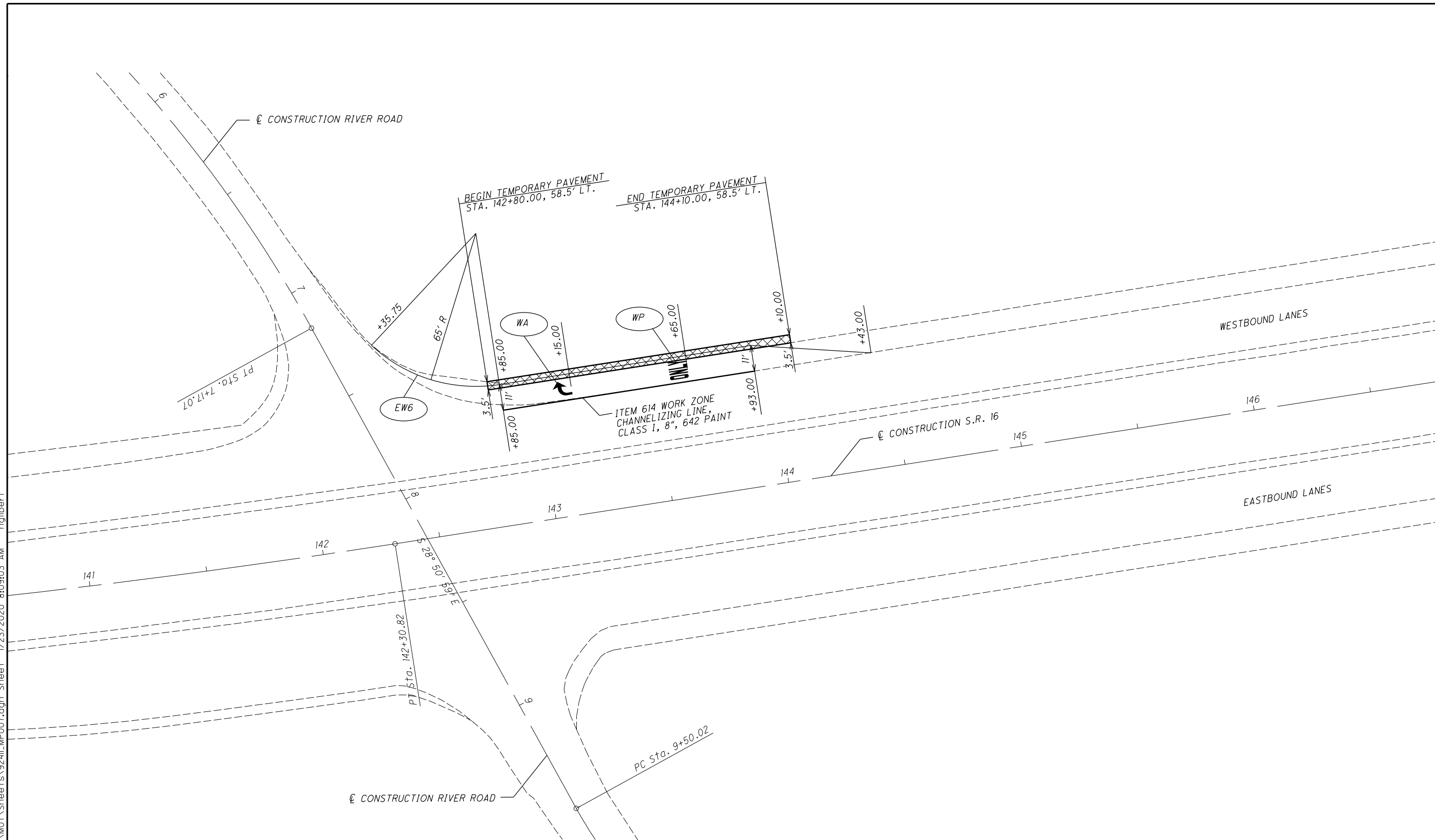
<b>MOT SUB-SUMMARY</b>	CALCULATED HG
	CHECKED HG
<b>LIC-37 / 661- 16.59 / 0.00</b>	36 341

I:\ProjectData\LIC\924IL\Design\M0T\Sheets\924IL\MP007.dgn Sheet 1/23/2020 8:09:03 AM hgiberl



0 10 20 40  
HORIZONTAL  
SCALE IN FEET

CALCULATED	BRH
CHECKED	HAG
















**MOT PRE-PHASE - S.R. 16 WB**  
**STA. 142+85 TO STA. 144+43**

**LIC-37 / 661-**  
**16.59 / 0.00**

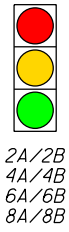
37  
341

**LEGEND**

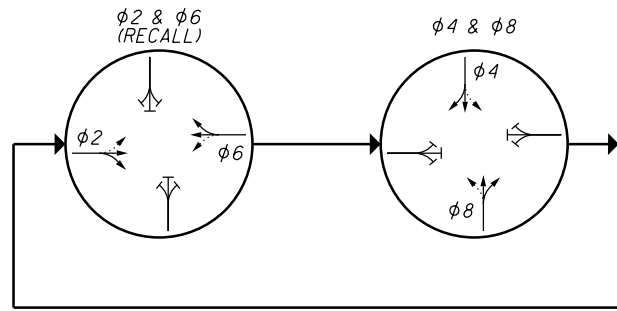
- |   |  |  |  |   |   |
|---|--|--|--|---|---|
|  | ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN |  | ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT            |  | ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)   |
|  | ITEM 622, PORTABLE BARRIER, 32"                                  |  | ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)  |  | ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT                 |
|  | DIRECTION OF TRAFFIC   |  | ITEM 614, WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT (WHITE)  |  | ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT |
|  | ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT                |  | ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW) |  | CONSTRUCTION WORK AREA  |

 TYPE III BARRICADE AS PER MT-101.60

**SIGNAL HEAD INDICATIONS**



**PHASING DIAGRAM**

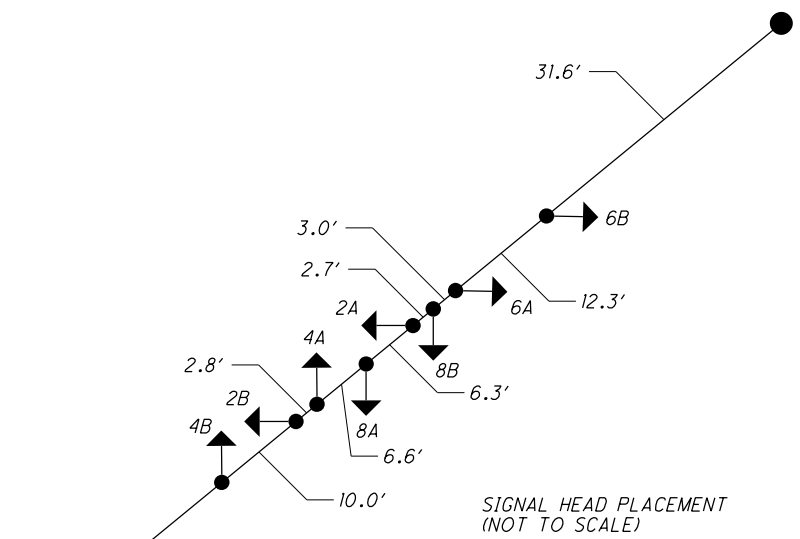
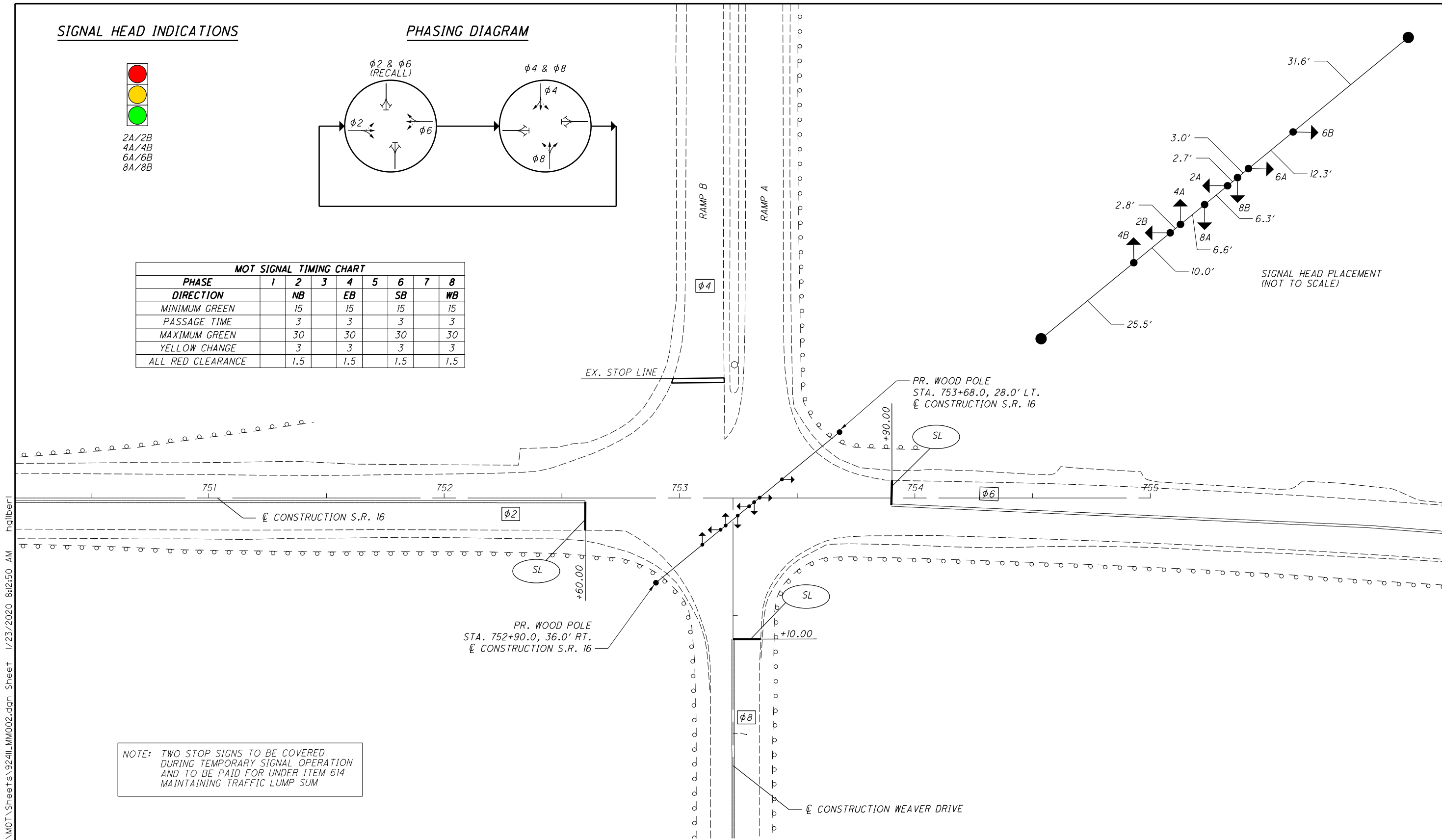


PHASE	1	2	3	4	5	6	7	8
DIRECTION		NB		EB		SB		WB
MINIMUM GREEN		15		15		15		15
PASSAGE TIME		3		3		3		3
MAXIMUM GREEN		30		30		30		30
YELLOW CHANGE		3		3		3		3
ALL RED CLEARANCE		1.5		1.5		1.5		1.5



**MOT PRE-PHASE TEMPORARY SIGNAL**  
**S.R. 16 & RAMPS A & B / WEAVER DRIVE**

**LIC-37 / 661-**  
**16.59 / 0.00**



NOTE: TWO STOP SIGNS TO BE COVERED DURING TEMPORARY SIGNAL OPERATION AND TO BE PAID FOR UNDER ITEM 614 MAINTAINING TRAFFIC LUMP SUM

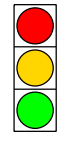
ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT	ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)
ITEM 622, PORTABLE BARRIER, 32"	ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)	ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT
DIRECTION OF TRAFFIC	ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW)	ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT
ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT		CONSTRUCTION WORK AREA

**LEGEND**

I:\ProjectData\LIC\924IL\Design\M0T\Sheets\924IL\_MM002.dgn Sheet 1/23/2020 8:21:50 AM ngilberl

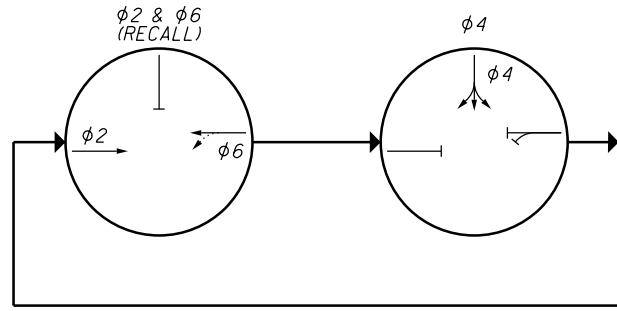


**SIGNAL HEAD INDICATIONS**



2A/2B  
4A/4B  
6A/6B

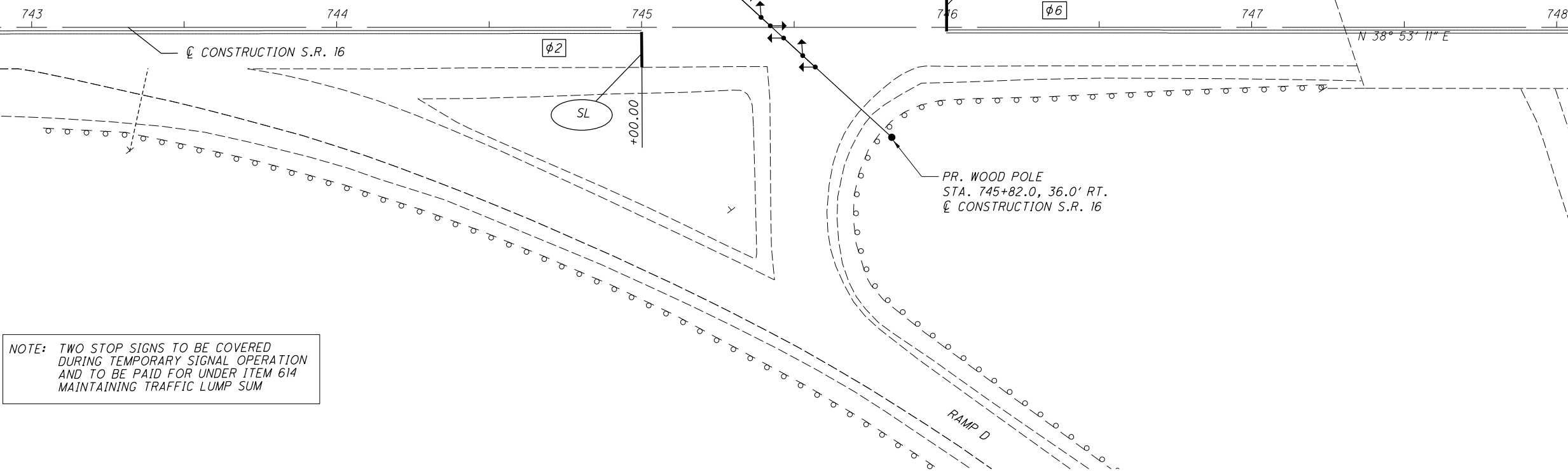
**PHASING DIAGRAM**



PHASE	1	2	3	4	5	6	7	8
DIRECTION		NB		EB		SB		
MINIMUM GREEN		15		15		15		
PASSAGE TIME		3		3		3		
MAXIMUM GREEN		30		30		30		
YELLOW CHANGE		3		3		3		
ALL RED CLEARANCE		1.5		1.5		1.5		

PR. WOOD POLE  
STA. 745+10.0, 30.0' LT.  
℄ CONSTRUCTION S.R. 16

SIGNAL HEAD PLACEMENT  
(NOT TO SCALE)



NOTE: TWO STOP SIGNS TO BE COVERED DURING TEMPORARY SIGNAL OPERATION AND TO BE PAID FOR UNDER ITEM 614 MAINTAINING TRAFFIC LUMP SUM

**LEGEND**

- ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN
- ITEM 622, PORTABLE BARRIER, 32"
- DIRECTION OF TRAFFIC
- ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT
- ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT
- ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)
- ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW)
- ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)
- ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT
- ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT

CONSTRUCTION WORK AREA

0 20 40  
 HORIZONTAL SCALE IN FEET  
 CALCULATED BRH CHECKED HAG

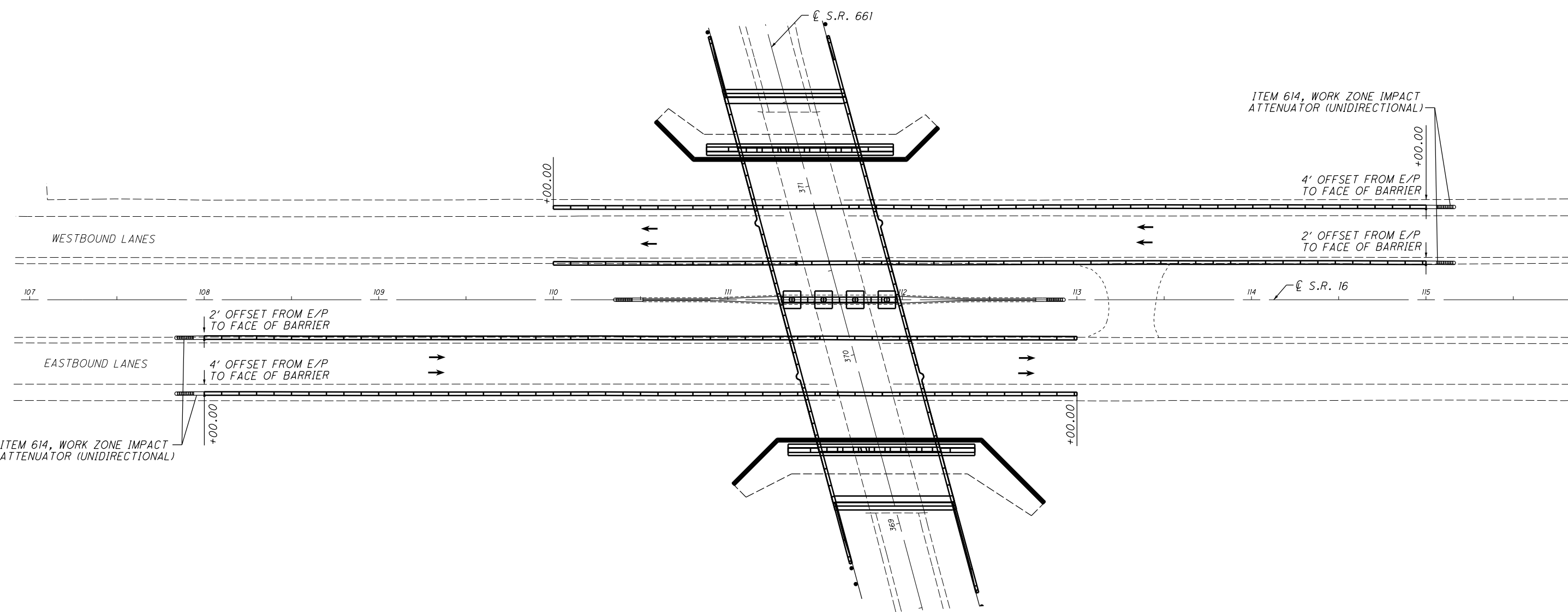
**MOT PRE-PHASE TEMPORARY SIGNAL S.R. 16 & RAMPS C & D**

**LIC-37 / 661-16.59 / 0.00**

40 / 341

I:\ProjectData\LIC-924IL\Design\M0T\Sheets\924IL\M0001.dgn Sheet 1/23/2020 8:11:42 AM ngilber

I:\ProjectData\LIC\_924IL\Design\M0T\Sheets\924IL\_MP000.dgn Sheet 1/23/2020 8:42:1AM hglibert



LEGEND			
	ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN		ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT
	ITEM 622, PORTABLE BARRIER, 32"		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)
	DIRECTION OF TRAFFIC		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW)
	ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT		ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)
			ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT
			ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT

- TYPE III BARRICADE AS PER MT-101.60
- CONSTRUCTION WORK AREA

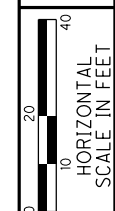
CALCULATED HG  
CHECKED HG

0 30 60  
15  
HORIZONTAL SCALE IN FEET

MOT PHASE 1A, 1B & 2A - S.R. 16  
STA. 108+00 TO STA. 115+00

LIC-37 / 661-  
16.59 / 0.00

I:\ProjectData\LIC\924IL\Design\M0T\Sheets\924IL\_MP001.dgn Sheet 1/23/2020 8:16:09 AM hgilberl



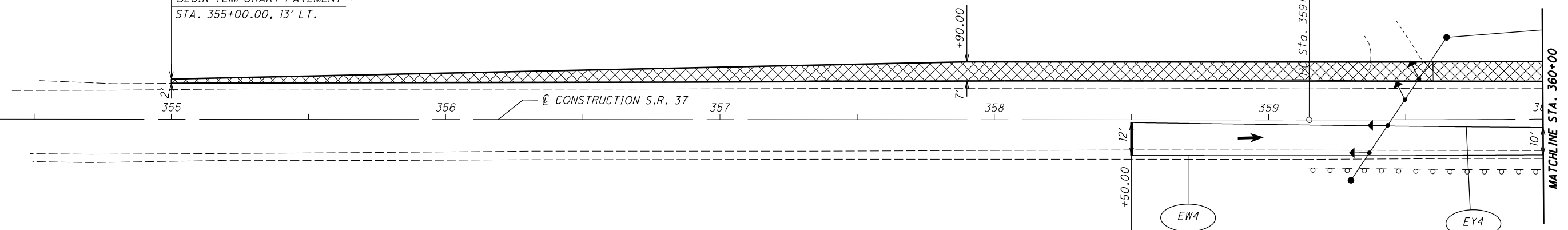
CALCULATED  
BRH  
CHECKED  
HAG

**MOT PHASE 1A - S.R. 37**  
**STA. 355+00 TO STA. 365+50**

**LIC-37 / 661-**  
**16.59 / 0.00**

FOR TEMPORARY SIGNAL DETAILS, SEE SHEET 41

BEGIN TEMPORARY PAVEMENT \*  
STA. 355+00.00, 13' LT.



EXISTING CONCRETE DITCH LINING TO BE REMOVED AND ITEM 670 DITCH EROSION PROTECTION, TYPE E 6.5' WIDE TO BE PLACED IN TEMPORARY DITCH LINE (SEE MOT CROSS-SECTION SHEETS FOR MORE DETAILS)

BEGIN FULL-DEPTH PAVEMENT  
STA. 361+50.00

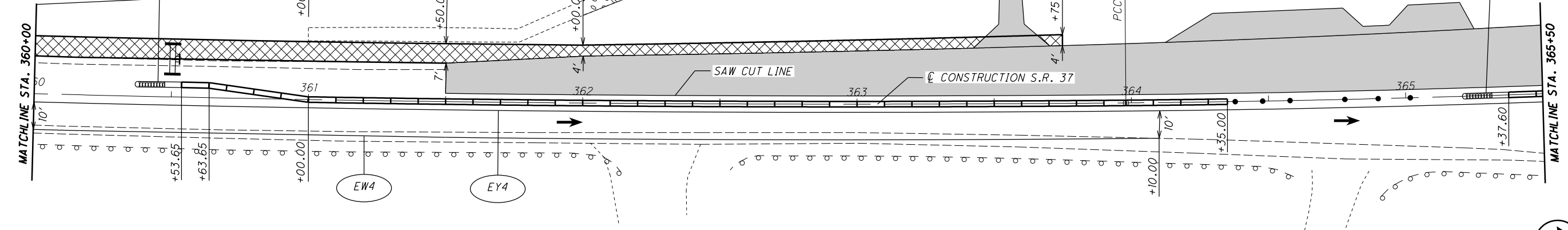
THIS PORTION OF EXISTING CONCRETE DITCH LINING TO REMAIN DURING CONSTRUCTION

\* END TEMPORARY PAVEMENT  
STA. 363+75.00, 21' LT.




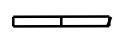
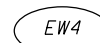







\* SEE SHEETS 47-52 FOR TEMPORARY CROSS-SECTION INFORMATION & DETAILS

ITEM 614, WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)


ITEM 614, WORK ZONE IMPACT ATTENUATOR (UNIDIRECTIONAL)



**LEGEND**

- |   |  |  |  |   |   |
|---|--|--|--|---|---|
|  | ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN |  | ITEM 614, WORK ZONE CENTER LINE, CLASS 1, 642 PAINT            |  | ITEM 614, WORK ZONE DOTTED LINE, CLASS 1, 642 PAINT (WHITE)   |
|  | ITEM 622, PORTABLE BARRIER, 32"                                  |  | ITEM 614, WORK ZONE EDGE LINE, CLASS 1, 4", 642 PAINT (WHITE)  |  | ITEM 614, WORK ZONE ARROW, CLASS 1, 642 PAINT                 |
|  | DIRECTION OF TRAFFIC   |  | ITEM 614, WORK ZONE EDGE LINE, CLASS 1, 4", 642 PAINT (YELLOW) |  | ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS 1, 642 PAINT |
|  | ITEM 614, WORK ZONE STOP LINE, CLASS 1, 642 PAINT                |  |  |  | TYPE III BARRICADE AS PER MT-101.60                           |
|   |  |  |  |  | CONSTRUCTION WORK AREA  |

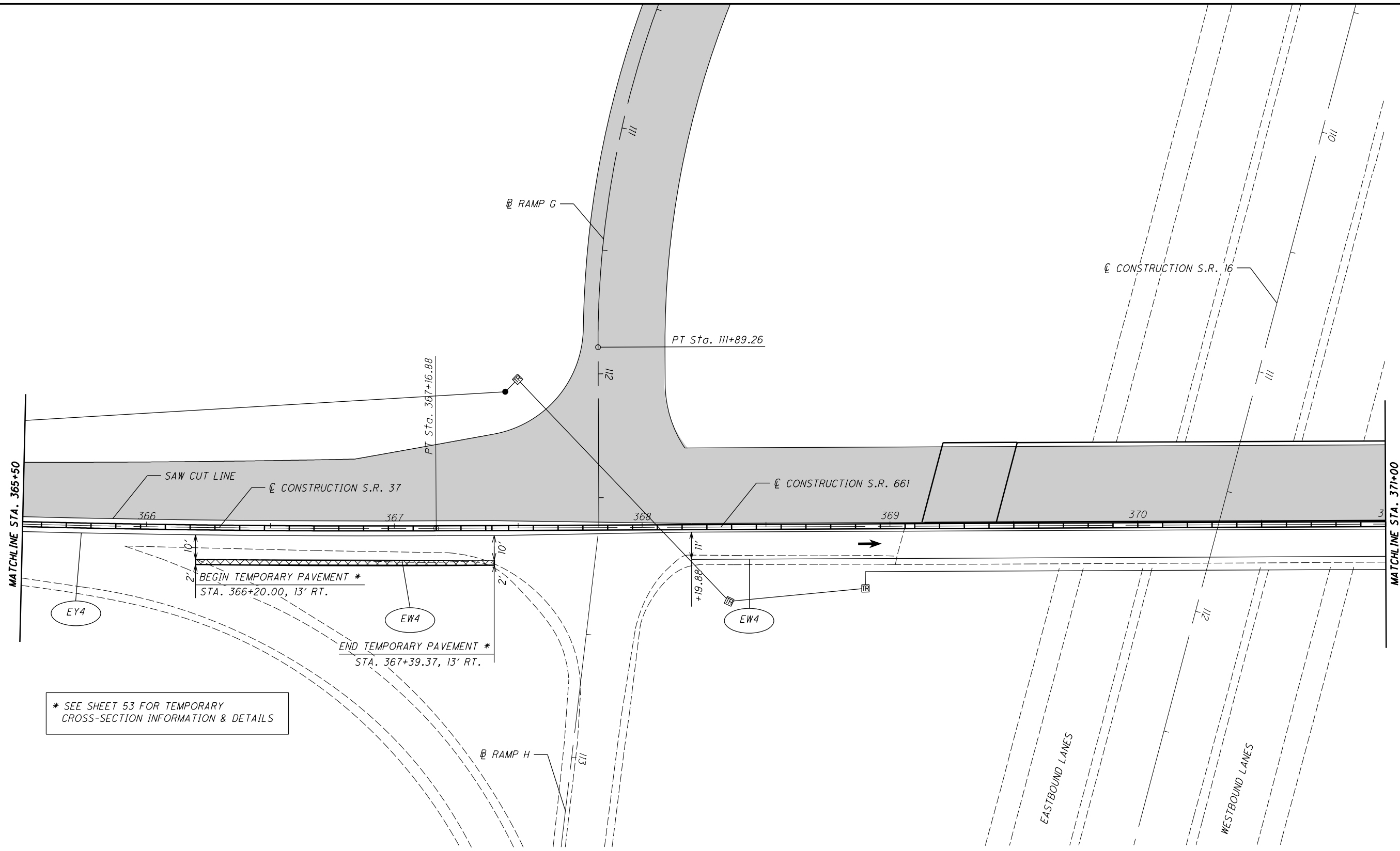
I:\ProjectData\LIC\924IL\Design\M0T\Sheets\924IL\MP002.dgn Sheet 1/23/2020 8:18:59 AM hgilber1


  

  
 HORIZONTAL SCALE IN FEET

CALCULATED BRH  
 CHECKED HAG  
**MOT PHASE 1A - S.R. 37 / S.R.661**  
**STA. 365+50 TO STA. 371+00**




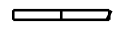








**LIC-37 / 661-**  
**16.59 / 0.00**

44  
 341



\* SEE SHEET 53 FOR TEMPORARY CROSS-SECTION INFORMATION & DETAILS

**LEGEND**

	ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN		ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT		ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)
	ITEM 622, PORTABLE BARRIER, 32"		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT (WHITE)		ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT
	DIRECTION OF TRAFFIC		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT (YELLOW)		ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT
	ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT				TYPE III BARRICADE AS PER MT-101.60
					CONSTRUCTION WORK AREA

I:\Projec+Data\LIC\924IL\Design\M0T\Sheets\924IL\_MP003.dgn Sheet 1/23/2020 8:20:34 AM hgliber1

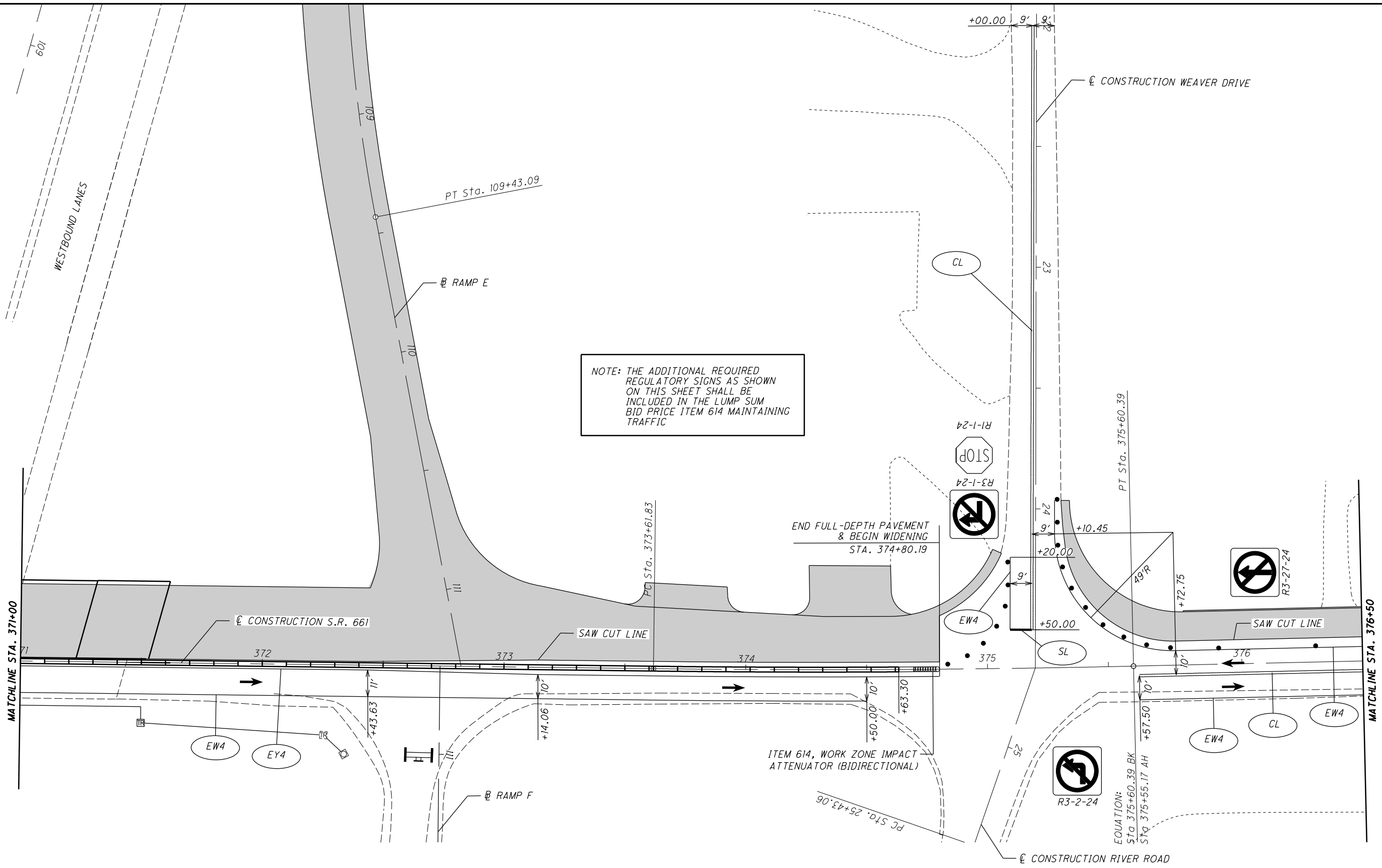


CALCULATED  
BRH  
CHECKED  
HAG

**MOT PHASE 1A - S.R. 661**  
**STA. 371+00 TO STA. 376+50**

**LIC-37 / 661-**  
**16.59 / 0.00**

45  
341

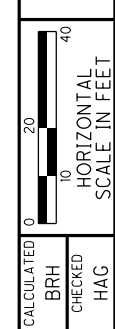
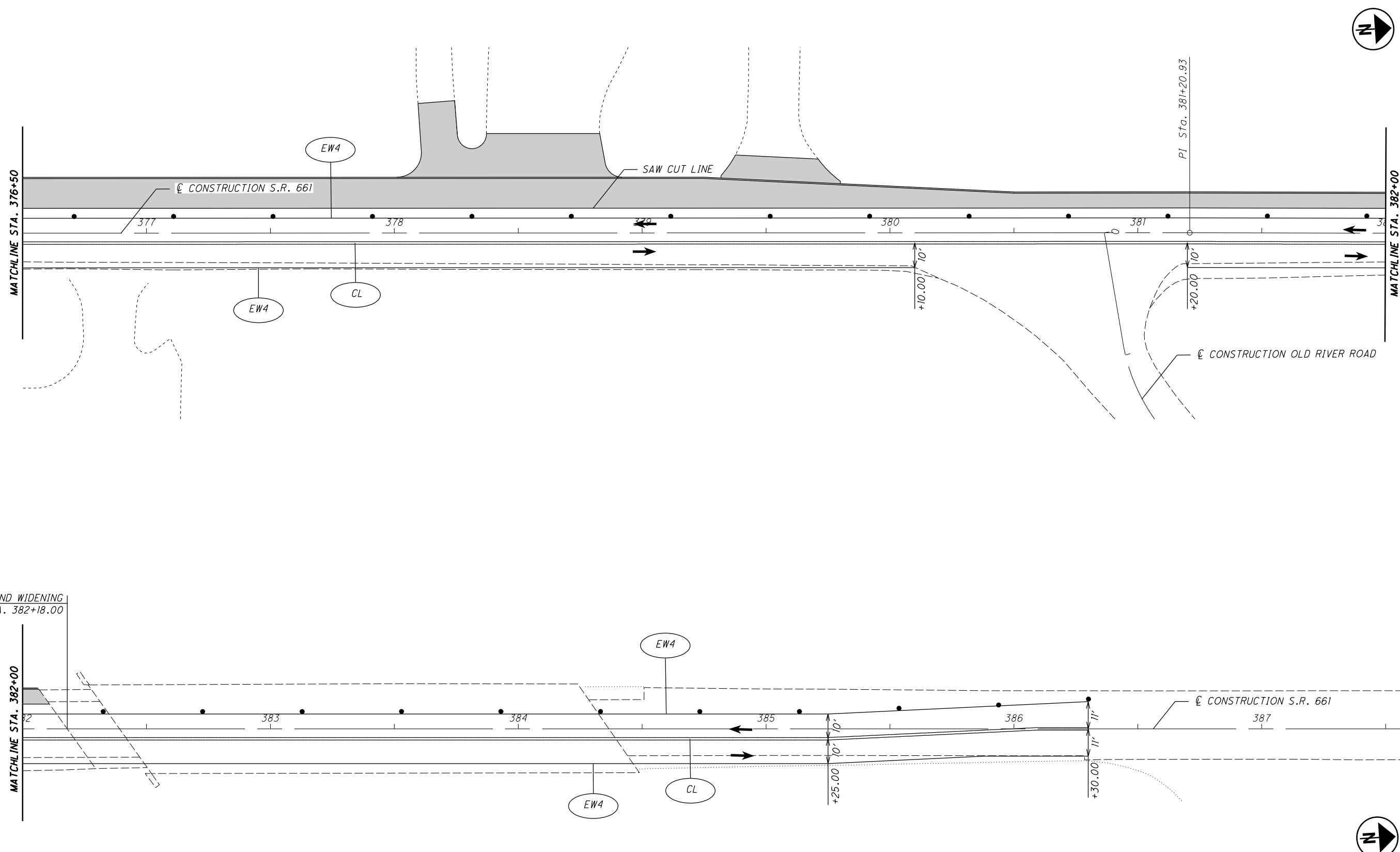


NOTE: THE ADDITIONAL REQUIRED REGULATORY SIGNS AS SHOWN ON THIS SHEET SHALL BE INCLUDED IN THE LUMP SUM BID PRICE ITEM 614 MAINTAINING TRAFFIC

**LEGEND**

- |  |  |  |  |  |   |
|--|--|--|--|--|---|
|  | ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN |  | ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT            |  | ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)   |
|  | ITEM 622, PORTABLE BARRIER, 32"                                  |  | ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)  |  | ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT                 |
|  | DIRECTION OF TRAFFIC   |  | ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW) |  | ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT |
|  | ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT                |  |  |  | TYPE III BARRICADE AS PER MT-101.60                           |
|  |  |  |  |  | CONSTRUCTION WORK AREA  |

I:\ProjectData\LIC\924IL\Design\M0T\Sheets\924IL\_MP004.dgn Sheet 1/23/2020 8:21:30 AM hgjlber1

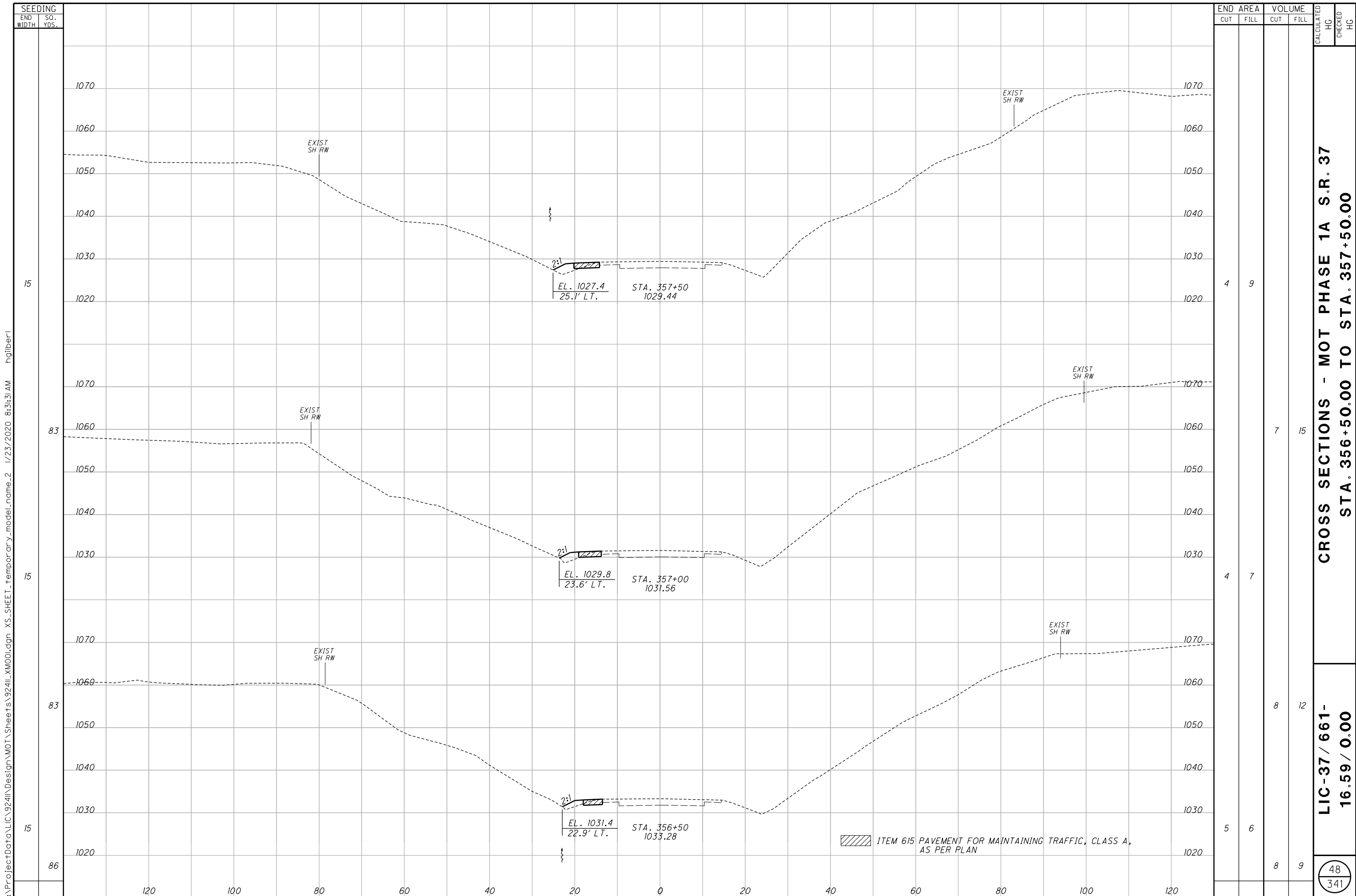


**MOT PHASE 1A - S.R. 661**  
**STA. 376+50 TO STA. 386+30**

**LIC-37 / 661-**  
**16.59 / 0.00**

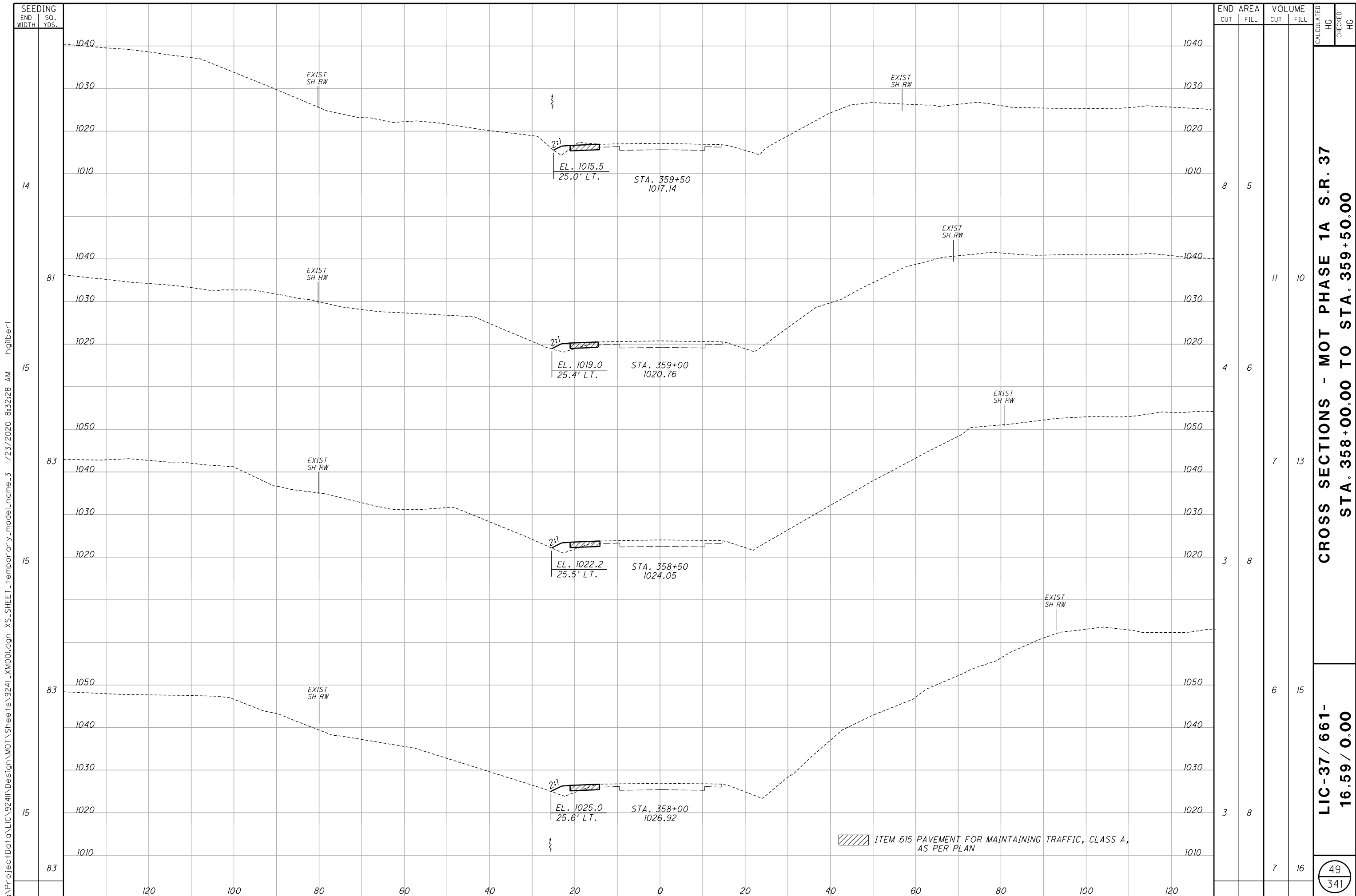
LEGEND			
	ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN		ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT
	ITEM 622, PORTABLE BARRIER, 32"		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)
	DIRECTION OF TRAFFIC		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW)
	ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT		ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)
			ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT
			ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT
	TYPE III BARRICADE AS PER MT-101.60		CONSTRUCTION WORK AREA





I:\ProjectData\LIC\9241\Design\M0T\Sheets\9241L\_XM001.dgn XS\_SHEET\_temporary\_model\_name\_2 1/23/2020 8:31:31 AM hgilber1





SEEDING	
END WIDTH	SO. YDS.
14	
81	
15	
83	
15	
83	
15	
83	

END AREA		VOLUME		CALCULATED		CHECKED	
CUT	FILL	CUT	FILL	HC	HC	HC	HC
8	5						
		11	10				
4	6						
		7	13				
3	8						
		6	15				
3	8						
		7	16				

**CROSS SECTIONS - MOT PHASE 1A S.R. 37**  
**STA. 358+00.00 TO STA. 359+50.00**

**LIC-37 / 661-**  
**16.59 / 0.00**

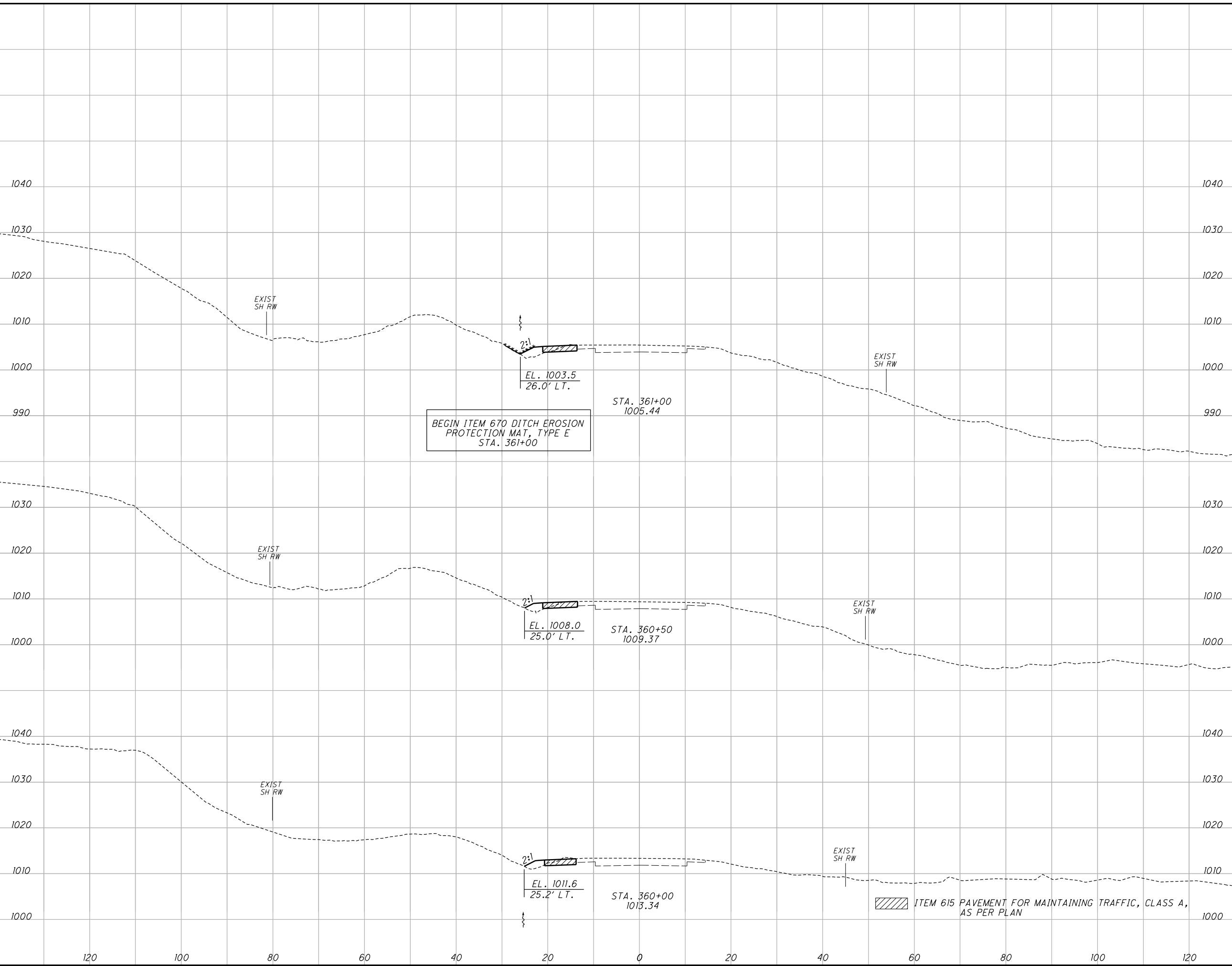
49  
341

I:\ProjectData\LIC\924IL\Design\M0T\Sheets\924IL\_XM001.dgn XS\_SHEET\_temporary\_model\_name\_3 1/23/2020 8:32:28 AM ngilber1

ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN

I:\ProjectData\LIC\924IL\Design\M0T\Sheets\924IL\_XM001.dgn XS\_SHEET\_temporary\_model\_name\_4 1/23/2020 8:33:27 AM ngilber1

SEEDING	
END WIDTH	SO. YDS.
81	12
72	14
81	15



END AREA		VOLUME		CALCULATED	CHECKED
CUT	FILL	CUT	FILL	HC	HC
6	8	11	13		
6	6	12	11		
7	6	14	10		

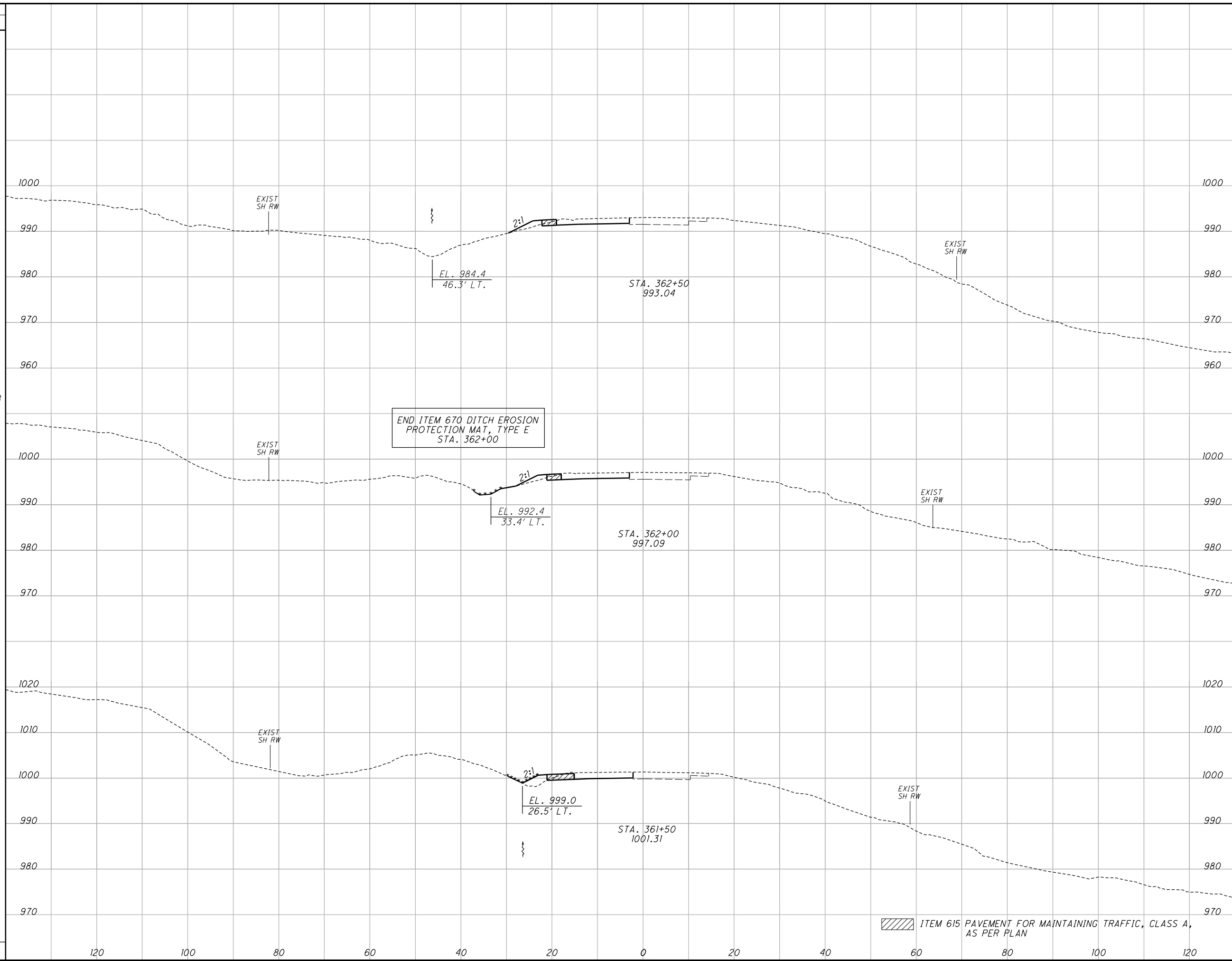
**CROSS SECTIONS - MOT PHASE 1A S.R. 37**  
**STA. 360+00.00 TO STA. 361+00.00**

**LIC-37 / 661-**  
**16.59 / 0.00**

50  
341

I:\ProjectData\LIC\9241\Design\M0T\Sheets\9241LXM001.dgn XS\_SHEET\_temporary\_model\_name\_5 1/23/2020 8:34:03 AM hgilber1

SEEDING	
END WIDTH	SO. YDS.
18	
21	
92	
12	
67	



END AREA		VOLUME	
CUT	FILL	CUT	FILL
2	6		
		5	10
3	5		
		8	13
6	9		
		11	16

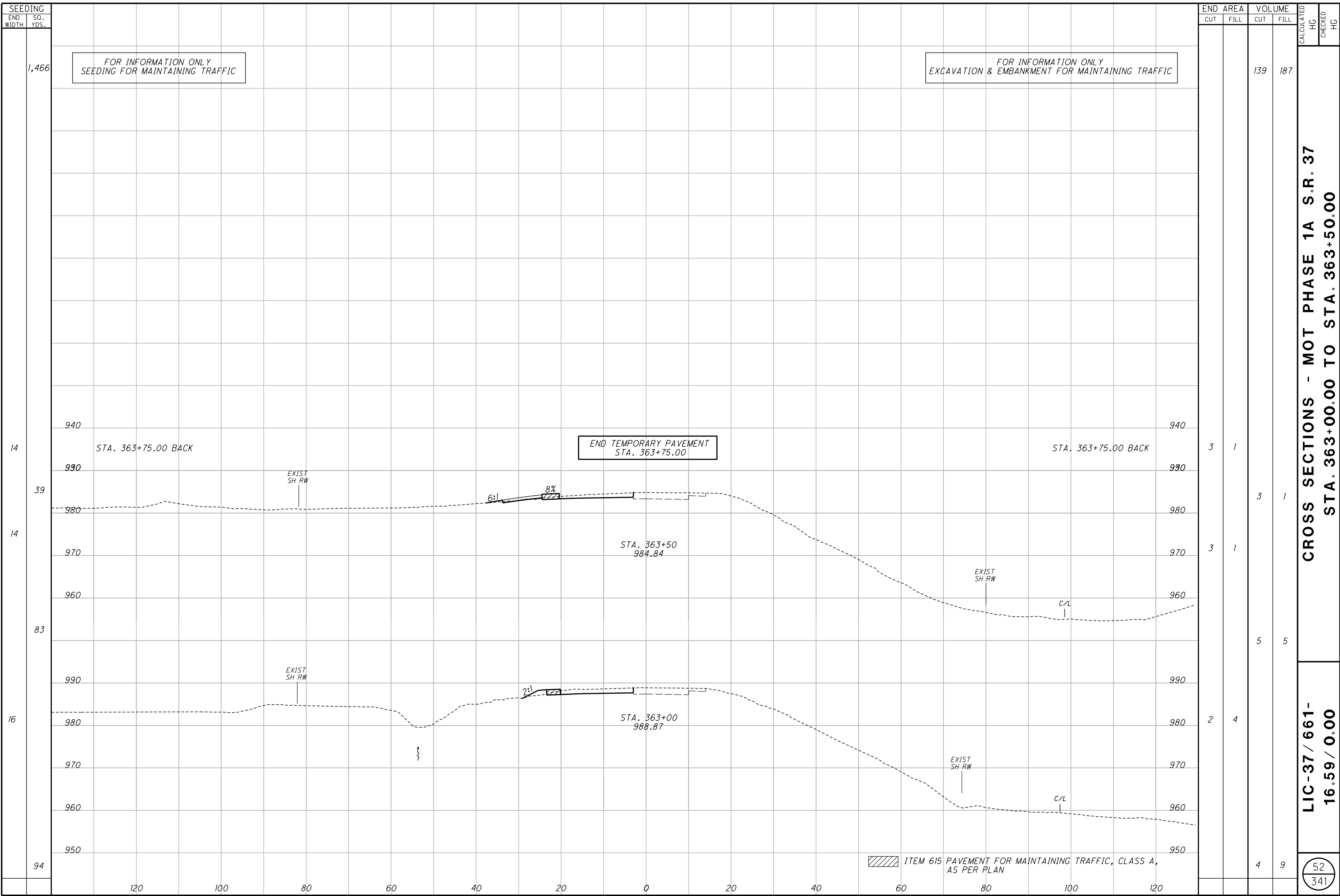
ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN

CROSS SECTIONS - MOT PHASE 1A S.R. 37  
STA. 361+50.00 TO STA. 362+50.00

LIC-37 / 661-  
16.59 / 0.00

51  
341

I:\ProjectData\LIC\_9241\Design\M0T\_Sheets\9241L\_XM001.dgn XS\_SHEET\_temporary\_model\_name\_6 1/23/2020 8:34:43 AM hgilber1



FOR INFORMATION ONLY  
SEEDING FOR MAINTAINING TRAFFIC

FOR INFORMATION ONLY  
EXCAVATION & EMBANKMENT FOR MAINTAINING TRAFFIC

END TEMPORARY PAVEMENT  
STA. 363+75.00

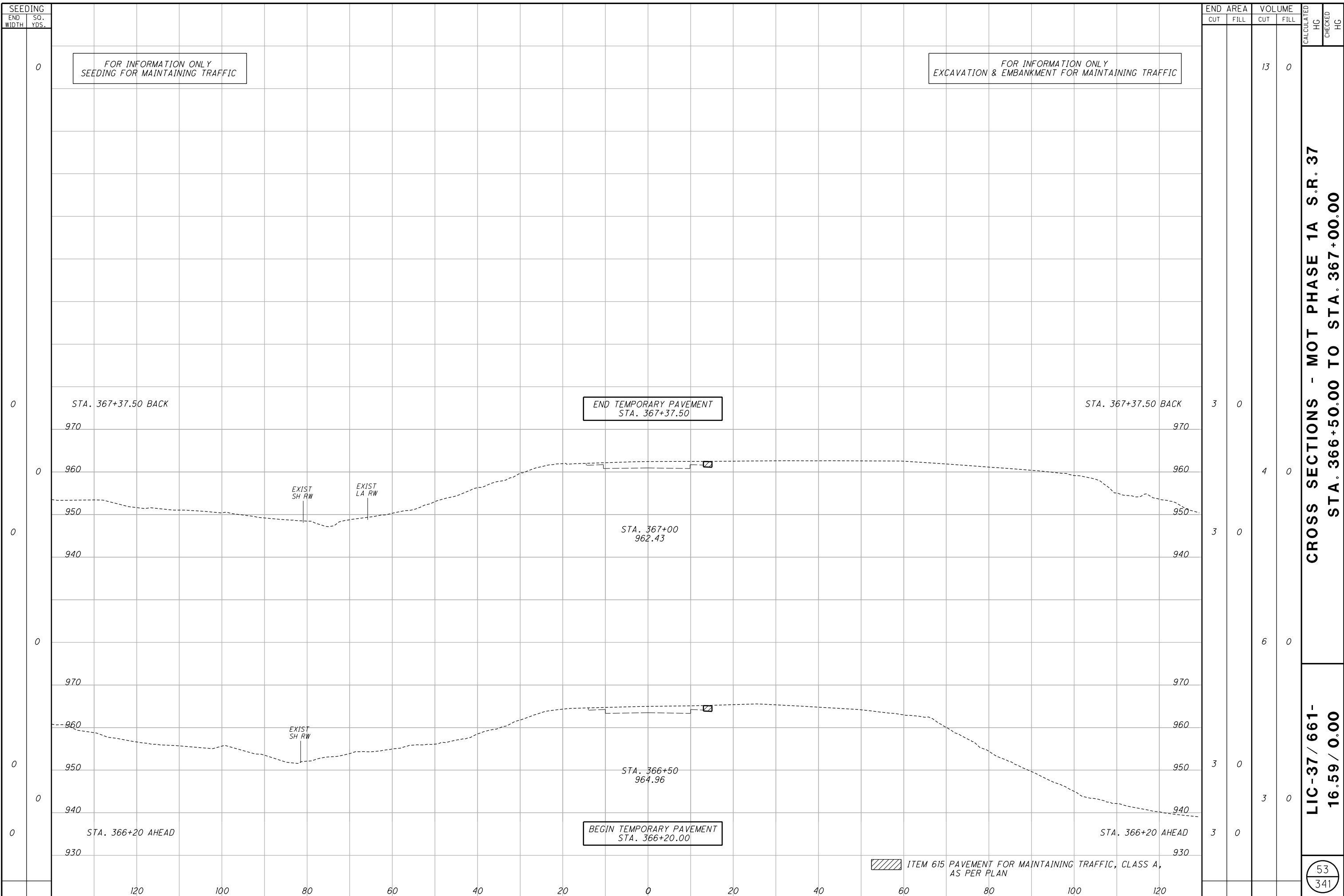
SEEDING		END AREA		VOLUME		CALCULATED		CHECKED	
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	HC	HC	HC	HC
1,466				139	187				
14		3	1						
39				3	1				
14		3	1						
83				5	5				
16		2	4						
94				4	9				

**CROSS SECTIONS - MOT PHASE 1A S.R. 37**  
**STA. 363+00.00 TO STA. 363+50.00**

**LIC-37 / 661-**  
**16.59 / 0.00**

52  
341

I:\ProjectData\LIC\9241\Design\M0T\Sheets\9241L\_XM002.dgn XS\_SHEET\_temporary\_model\_name\_1/23/2020 8:36:14 AM hgliberl



FOR INFORMATION ONLY  
SEEDING FOR MAINTAINING TRAFFIC

FOR INFORMATION ONLY  
EXCAVATION & EMBANKMENT FOR MAINTAINING TRAFFIC

END TEMPORARY PAVEMENT  
STA. 367+37.50

BEGIN TEMPORARY PAVEMENT  
STA. 366+20.00

ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A,  
AS PER PLAN

SEEDING		END AREA		VOLUME		CALCULATED	CHECKED
END WIDTH	SO. YDS.	CUT	FILL	CUT	FILL	HC	HC
0				13	0		
0		3	0	4	0		
0		3	0	6	0		
0		3	0	3	0		
0		3	0				

CROSS SECTIONS - MOT PHASE 1A S.R. 37  
STA. 366+50.00 TO STA. 367+00.00

LIC-37 / 661-  
16.59 / 0.00

53  
341

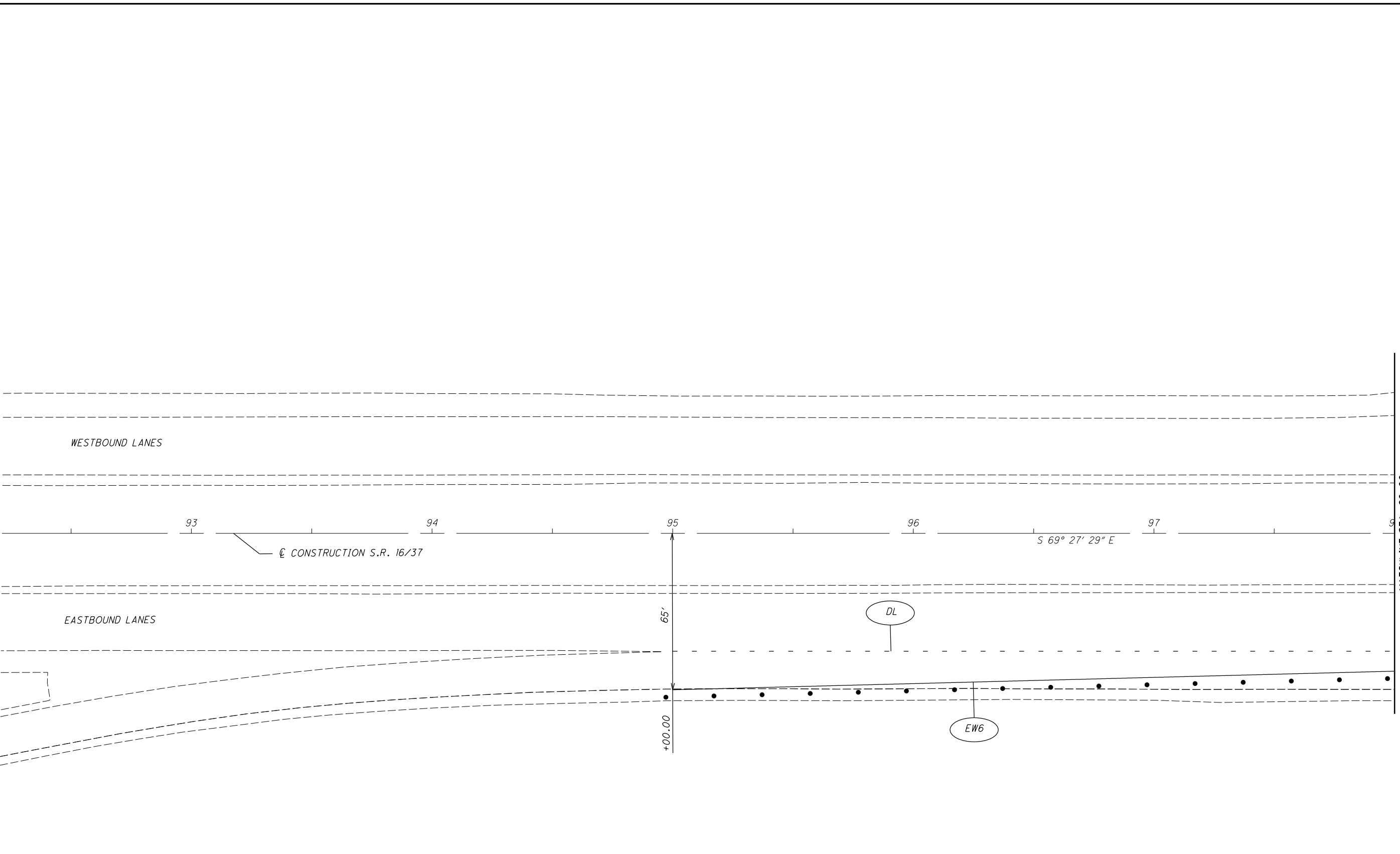
I:\ProjectData\LIC\_9241\Design\M0T\_Sheets\9241L\MP005.dgn Sheet 1/23/2020 8:38:02 AM hgilber1

CALCULATED  
BRH  
CHECKED  
HAG

0 20 40  
HORIZONTAL  
SCALE IN FEET

**MOT PHASE 1A - RAMP G CLOSURE**  
**S.R. 16 - STA. 95+00 TO STA. 98+00**

**LIC-37 / 661-**  
**16.59 / 0.00**



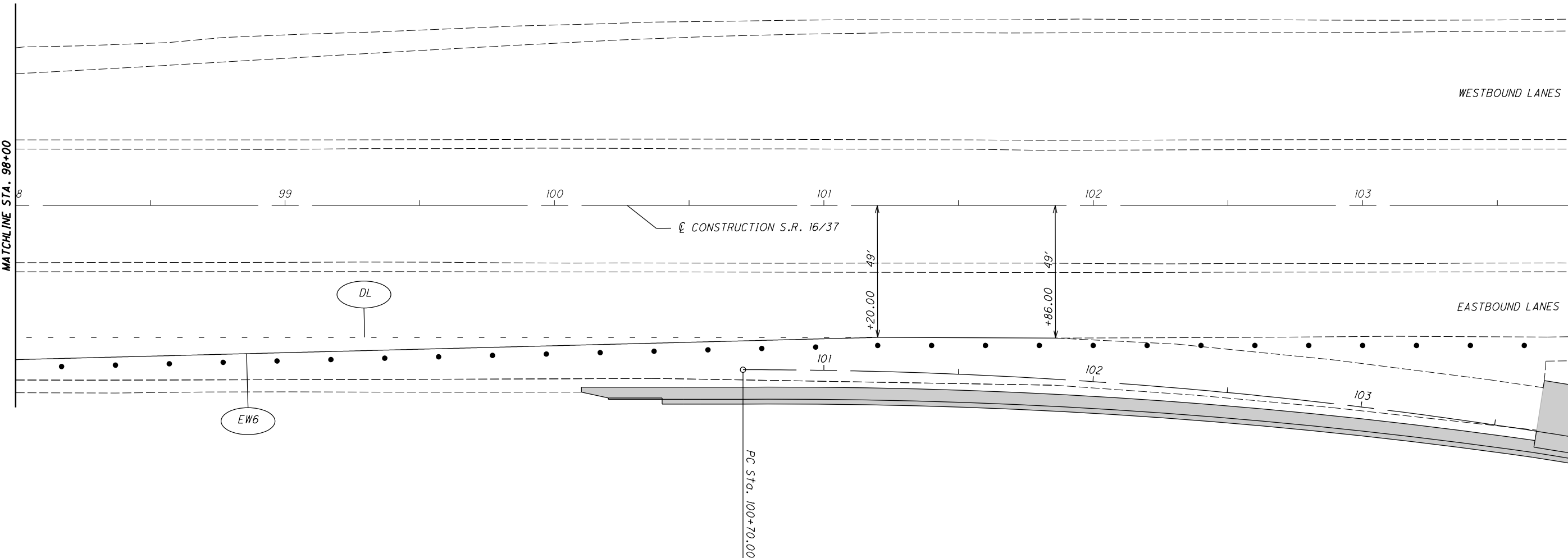
**LEGEND**

	ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN		ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT		ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)
	ITEM 622, PORTABLE BARRIER, 32"		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)		ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT
	DIRECTION OF TRAFFIC		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT (WHITE)		ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT
	ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW)		CONSTRUCTION WORK AREA














TYPE III BARRICADE  
AS PER MT-101.60

CONSTRUCTION WORK AREA



I:\ProjectData\LIC\924IL\Design\M0T\Sheets\924IL\_MP006.dgn\_Sheet 1/23/2020 8:38:46 AM hgiberl



LEGEND

- |   |  |  |  |   |   |
|---|--|--|--|---|---|
|  | ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN |  | ITEM 614, WORK ZONE CENTER LINE, CLASS 1, 642 PAINT            |  | ITEM 614, WORK ZONE DOTTED LINE, CLASS 1, 642 PAINT (WHITE)   |
|  | ITEM 622, PORTABLE BARRIER, 32"                                  |  | ITEM 614, WORK ZONE EDGE LINE, CLASS 1, 4", 642 PAINT (WHITE)  |  | ITEM 614, WORK ZONE ARROW, CLASS 1, 642 PAINT                 |
|  | DIRECTION OF TRAFFIC   |  | ITEM 614, WORK ZONE EDGE LINE, CLASS 1, 6", 642 PAINT (WHITE)  |  | ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS 1, 642 PAINT |
|  | ITEM 614, WORK ZONE STOP LINE, CLASS 1, 642 PAINT                |  | ITEM 614, WORK ZONE EDGE LINE, CLASS 1, 4", 642 PAINT (YELLOW) |  | TYPE III BARRICADE AS PER MT-101.60                           |
|   |  |  |  |  | CONSTRUCTION WORK AREA  |

CALCULATED  
BRH  
CHECKED  
HAG

HORIZONTAL SCALE IN FEET

MOT PHASE 1A - RAMP G CLOSURE  
S.R. 16 - STA. 98+00 TO STA. 101+86

LIC-37 / 661-  
16.59 / 0.00

55  
341

I:\ProjectData\LIC\924IL\Design\M0T\Sheets\924IL\_MP008.dgn\_Sheet 1/23/2020 8:40:28 AM hgilber1

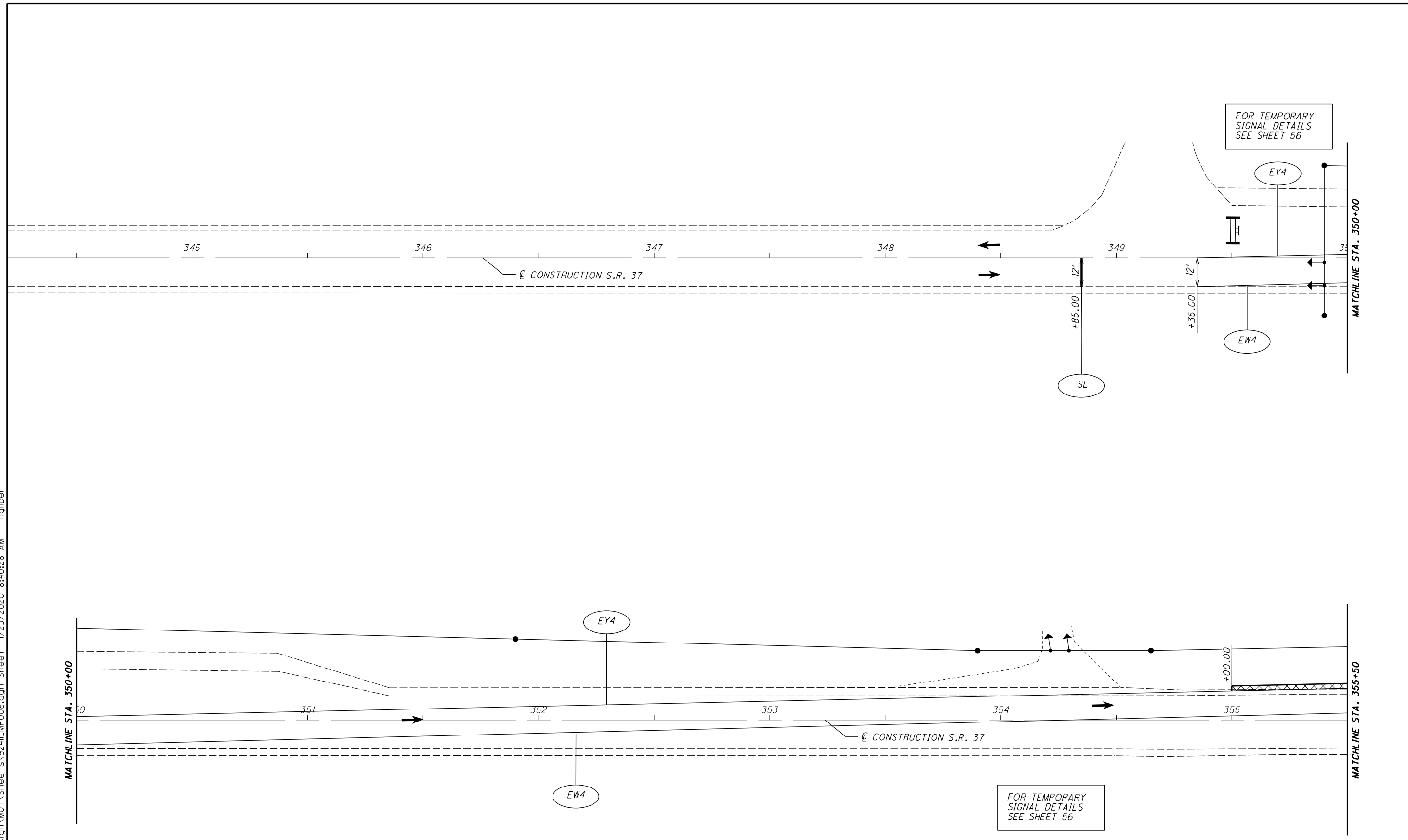
0 20 40  
HORIZONTAL SCALE IN FEET

CALCULATED	BRH	CHECKED	HAG
------------	-----	---------	-----

**MOT PHASE 1B - S.R. 37**  
**STA. 348+85 TO STA. 355+50**

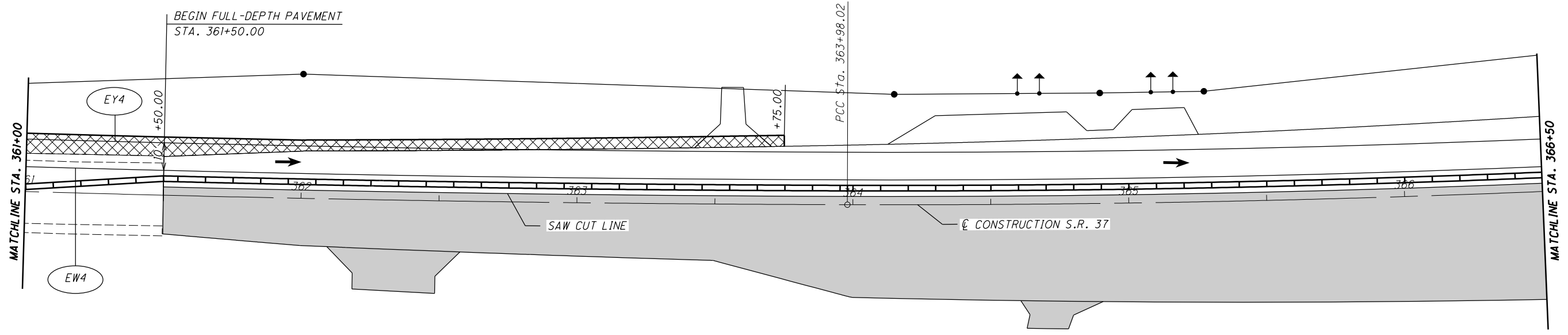
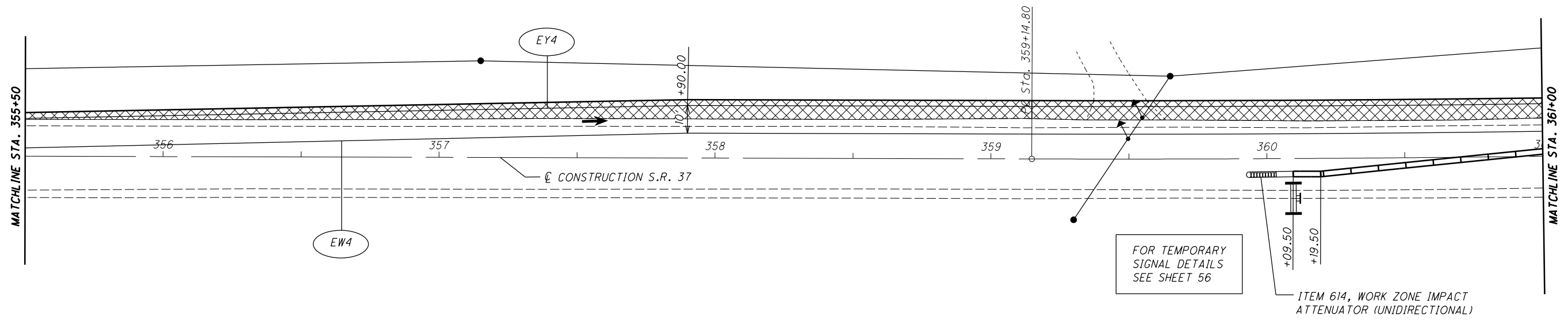
**LIC-37 / 661-**  
**16.59 / 0.00**

57  
341



LEGEND			
	ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN		ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT
	ITEM 622, PORTABLE BARRIER, 32"		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)
	DIRECTION OF TRAFFIC		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW)
	ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT		ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)
			ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT
			ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT
			TYPE III BARRICADE AS PER MT-101.60
			CONSTRUCTION WORK AREA





LEGEND			
	ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN		ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT
	ITEM 622, PORTABLE BARRIER, 32"		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)
	DIRECTION OF TRAFFIC		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW)
	ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT		ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)
			ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT
			ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT
			TYPE III BARRICADE AS PER MT-101.60
			CONSTRUCTION WORK AREA

I:\ProjectData\LIC\924IL\Design\M0T\Sheets\924IL\MP009.dgn Sheet 1/23/2020 8:41:18 AM hgilber1

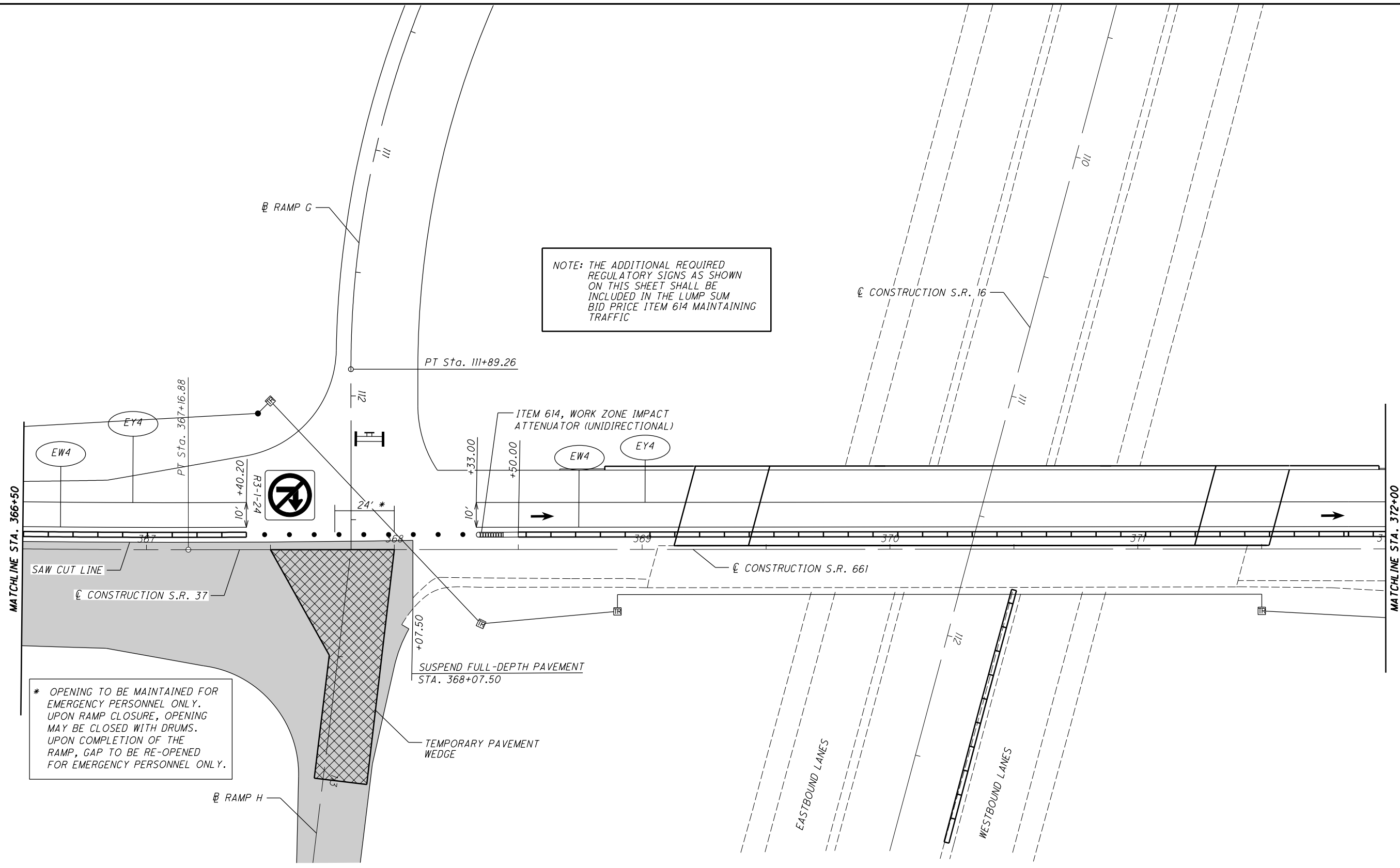
I:\ProjectData\LIC\9241\Design\01\Sheets\9241\MP010.dgn Sheet 1/23/2020 8:42:41AM ngilbert

CALCULATED  
BRH  
CHECKED  
HAG

0 20 40  
HORIZONTAL  
SCALE IN FEET

**MOT PHASE 1B - S.R. 37 / S.R. 661**  
**STA. 366+50 TO STA. 372+00**

**LIC-37 / 661-**  
**16.59 / 0.00**



NOTE: THE ADDITIONAL REQUIRED REGULATORY SIGNS AS SHOWN ON THIS SHEET SHALL BE INCLUDED IN THE LUMP SUM BID PRICE ITEM 614 MAINTAINING TRAFFIC

\* OPENING TO BE MAINTAINED FOR EMERGENCY PERSONNEL ONLY. UPON RAMP CLOSURE, OPENING MAY BE CLOSED WITH DRUMS. UPON COMPLETION OF THE RAMP, GAP TO BE RE-OPENED FOR EMERGENCY PERSONNEL ONLY.

LEGEND	
	ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN
	ITEM 622, PORTABLE BARRIER, 32"
	DIRECTION OF TRAFFIC
	ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT
	ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT
	ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)
	ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW)
	ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)
	ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT
	ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT
	TYPE III BARRICADE AS PER MT-101.60
	CONSTRUCTION WORK AREA

I:\ProjectData\LIC\9241\Design\MOT\Sheets\9241L\MPO11.dgn Sheet 1/23/2020 8:43:34 AM hgilber1

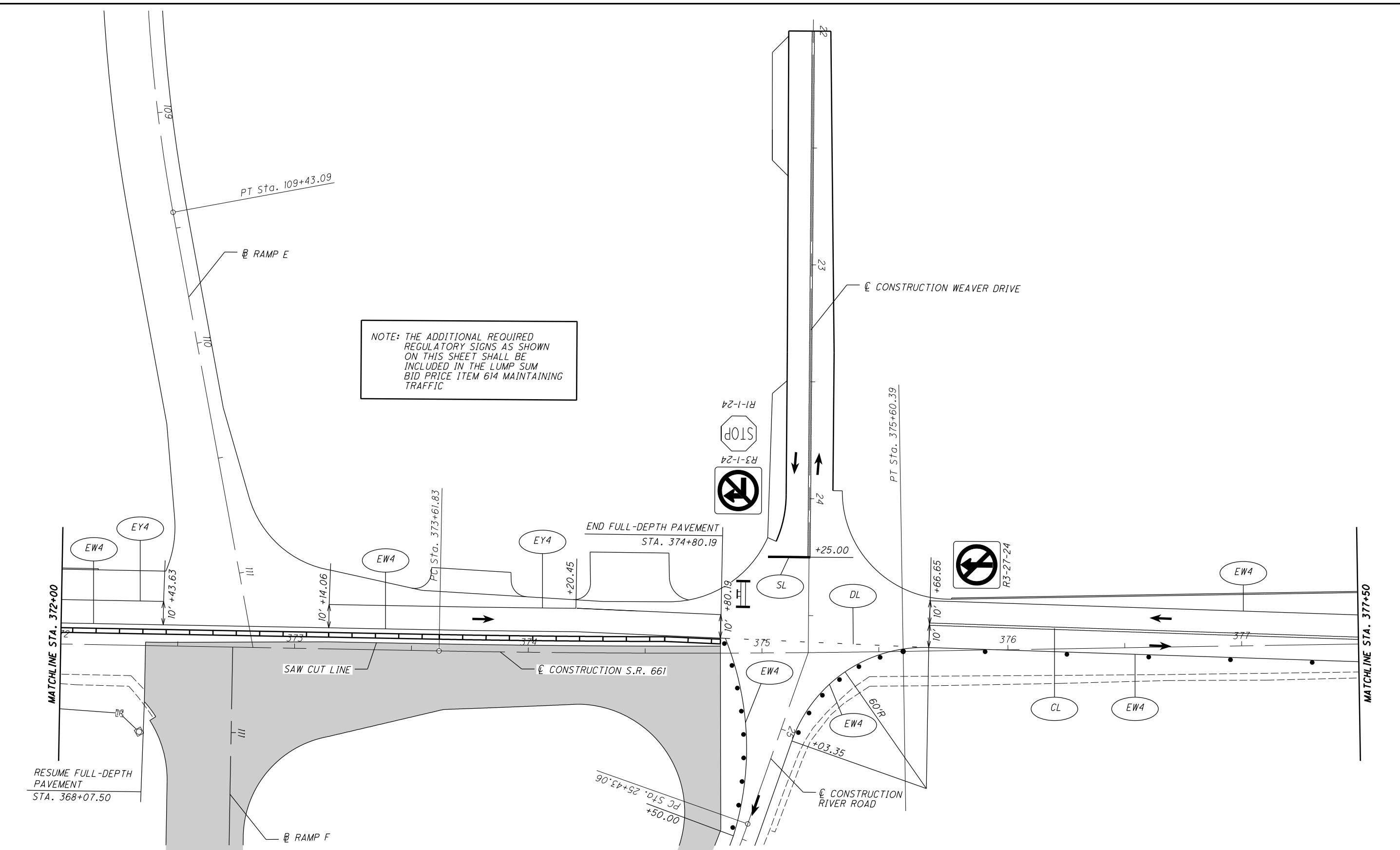
CALCULATED  
BRH  
CHECKED  
HAG

0 20 40  
10  
HORIZONTAL  
SCALE IN FEET

MOT PHASE 1B - S.R. 661  
STA. 372+00 TO STA. 377+50












LIC-37 / 661-  
16.59 / 0.00

60  
341



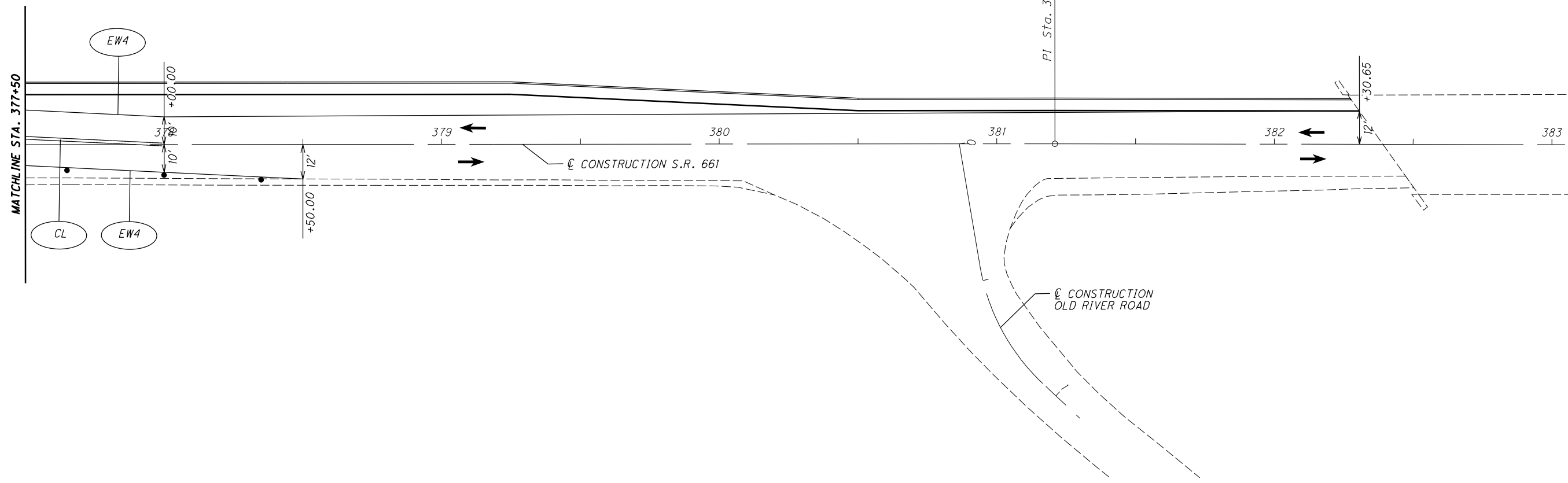
NOTE: THE ADDITIONAL REQUIRED REGULATORY SIGNS AS SHOWN ON THIS SHEET SHALL BE INCLUDED IN THE LUMP SUM BID PRICE ITEM 614 MAINTAINING TRAFFIC

LEGEND

	ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN		ITEM 614, WORK ZONE CENTER LINE, CLASS 1, 642 PAINT		ITEM 614, WORK ZONE DOTTED LINE, CLASS 1, 642 PAINT (WHITE)
	ITEM 622, PORTABLE BARRIER, 32"		ITEM 614, WORK ZONE EDGE LINE, CLASS 1, 4", 642 PAINT (WHITE)		ITEM 614, WORK ZONE ARROW, CLASS 1, 642 PAINT
	DIRECTION OF TRAFFIC		ITEM 614, WORK ZONE EDGE LINE, CLASS 1, 4", 642 PAINT (YELLOW)		ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS 1, 642 PAINT
	ITEM 614, WORK ZONE STOP LINE, CLASS 1, 642 PAINT				CONSTRUCTION WORK AREA

 TYPE III BARRICADE AS PER MT-101.60

I:\ProjectData\LIC\_9241\Design\M0T\Sheets\9241L\MF012.dgn Sheet 1/23/2020 8:46:15 AM hgliber1



CALCULATED  
BRH  
CHECKED  
HAG

0 20 40  
HORIZONTAL  
SCALE IN FEET

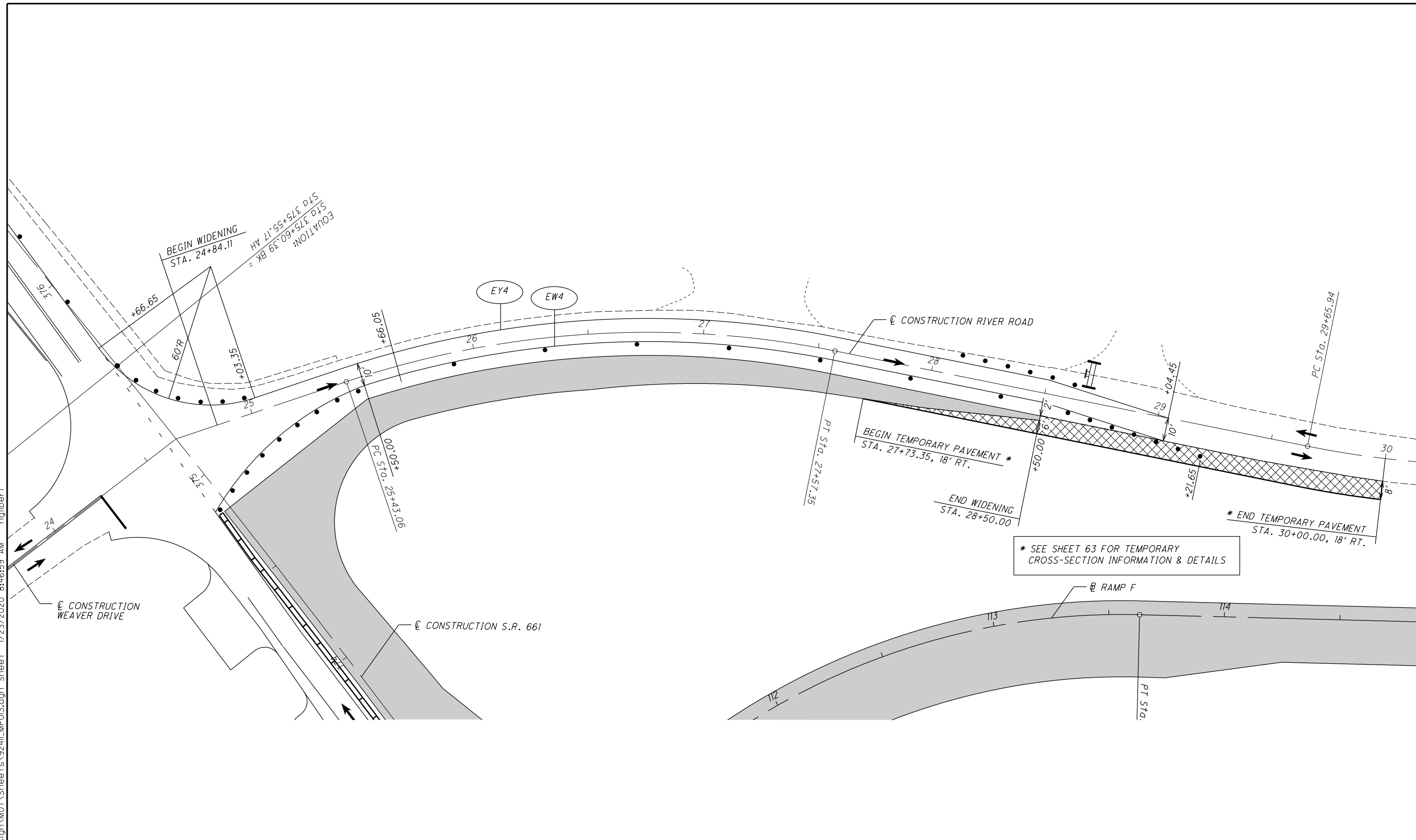
**MOT PHASE 1B - S.R. 661**  
**STA. 377+50 TO STA. 378+50**

**LIC-37 / 661-**  
**16.59 / 0.00**

61  
341

LEGEND			
	ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN		ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT
	ITEM 622, PORTABLE BARRIER, 32"		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)
	DIRECTION OF TRAFFIC		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW)
	ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT		ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)
			ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT
			ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT
			TYPE III BARRICADE AS PER MT-101.60
			CONSTRUCTION WORK AREA

I:\ProjectData\LIC\9241\Design\MOT\Sheets\9241L\MPO13.dgn Sheet 1/23/2020 8:46:59 AM hgilber1



CALCULATED  
BRH  
CHECKED  
HAG

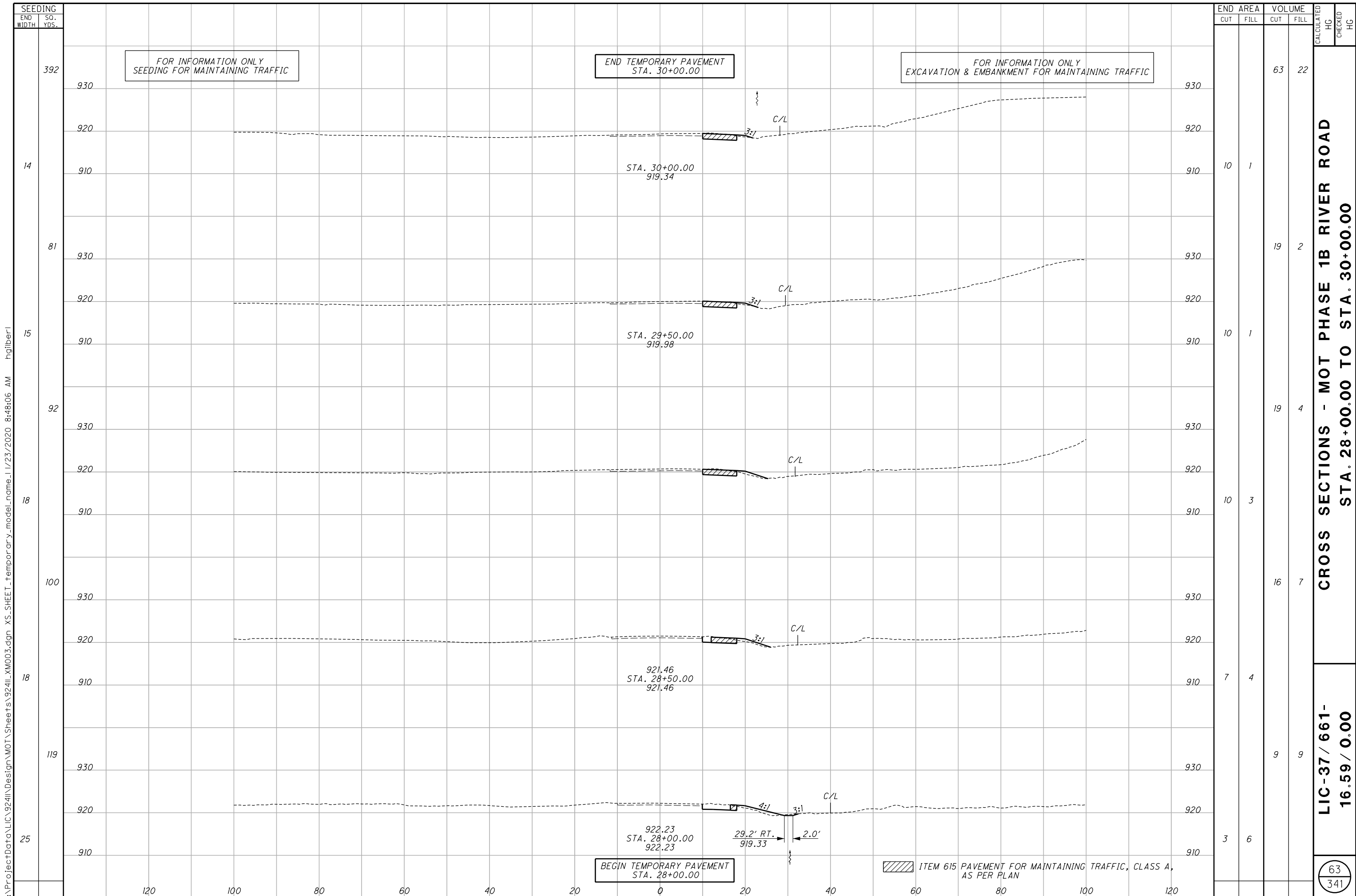
0 20 40  
10  
HORIZONTAL  
SCALE IN FEET

**MOT PHASE 1B - RIVER RD.  
STA. 24+84.11 TO STA. 30+00.00**

**LIC-37 / 661-  
16.59 / 0.00**

62  
341

LEGEND			
	ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN		ITEM 614, WORK ZONE CENTER LINE, CLASS 1, 642 PAINT
	ITEM 622, PORTABLE BARRIER, 32"		ITEM 614, WORK ZONE EDGE LINE, CLASS 1, 6", 642 PAINT (WHITE)
	DIRECTION OF TRAFFIC		ITEM 614, WORK ZONE EDGE LINE, CLASS 1, 6", 642 PAINT (YELLOW)
	ITEM 614, WORK ZONE STOP LINE, CLASS 1, 642 PAINT		ITEM 614, WORK ZONE DOTTED LINE, CLASS 1, 642 PAINT (WHITE)
			ITEM 614, WORK ZONE ARROW, CLASS 1, 642 PAINT
			ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS 1, 642 PAINT
	TYPE III BARRICADE AS PER MT-101.60		
	CONSTRUCTION WORK AREA		

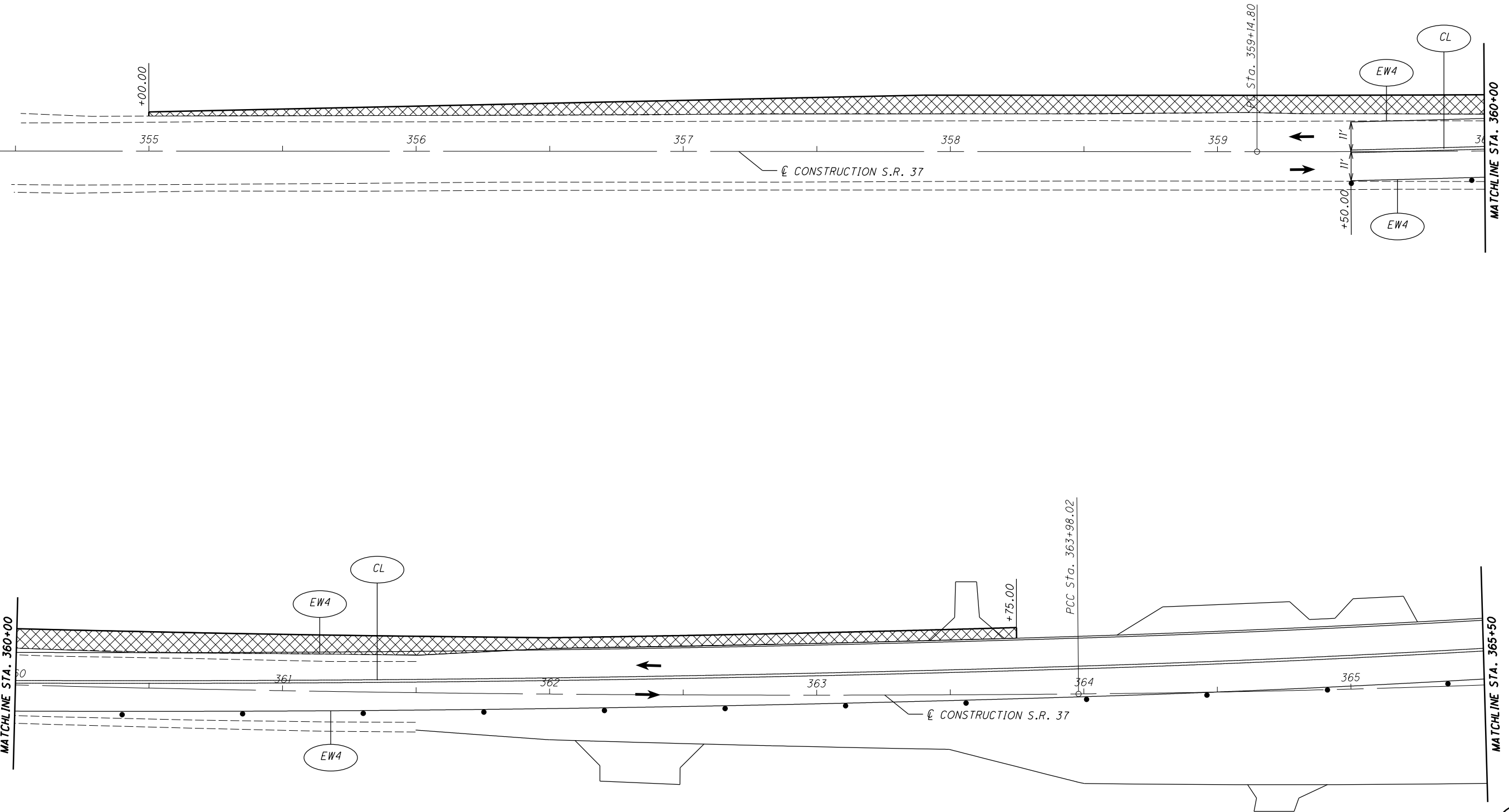


**CROSS SECTIONS - MOT PHASE 1B RIVER ROAD  
STA. 28+00.00 TO STA. 30+00.00**

**LIC-37 / 661-  
16.59 / 0.00**

I:\ProjectData\LIC\9241\Design\M0T\Sheets\9241L\_XM003.dgn XS\_SHEET\_Temporary\_model\_name\_1/23/2020 8:48:06 AM hgliberl

I:\ProjectData\LIC\_9241\Design\M0T\_Sheets\9241L\_MP014.dgn Sheet 1/23/2020 8:48:52 AM hgilber1



0 10 20  
HORIZONTAL  
SCALE IN FEET

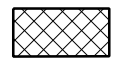


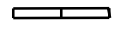
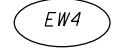

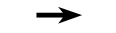





CALCULATED  
BRH  
CHECKED  
HAG

**MOT PHASE 2A - S.R. 37**  
**STA. 359+50 TO STA. 365+50**

**LIC-37 / 661-**  
**16.59 / 0.00**

64  
341

**LEGEND**

- |   |  |  |  |   |   |
|---|--|--|--|---|---|
|  | ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN |  | ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT            |  | ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)   |
|  | ITEM 622, PORTABLE BARRIER, 32"                                  |  | ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)  |  | ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT                 |
|  | DIRECTION OF TRAFFIC   |  | ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW) |  | ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT |
|  | ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT                |  |  |  | TYPE III BARRICADE AS PER MT-101.60                           |
|   |  |  |  |  | CONSTRUCTION WORK AREA  |



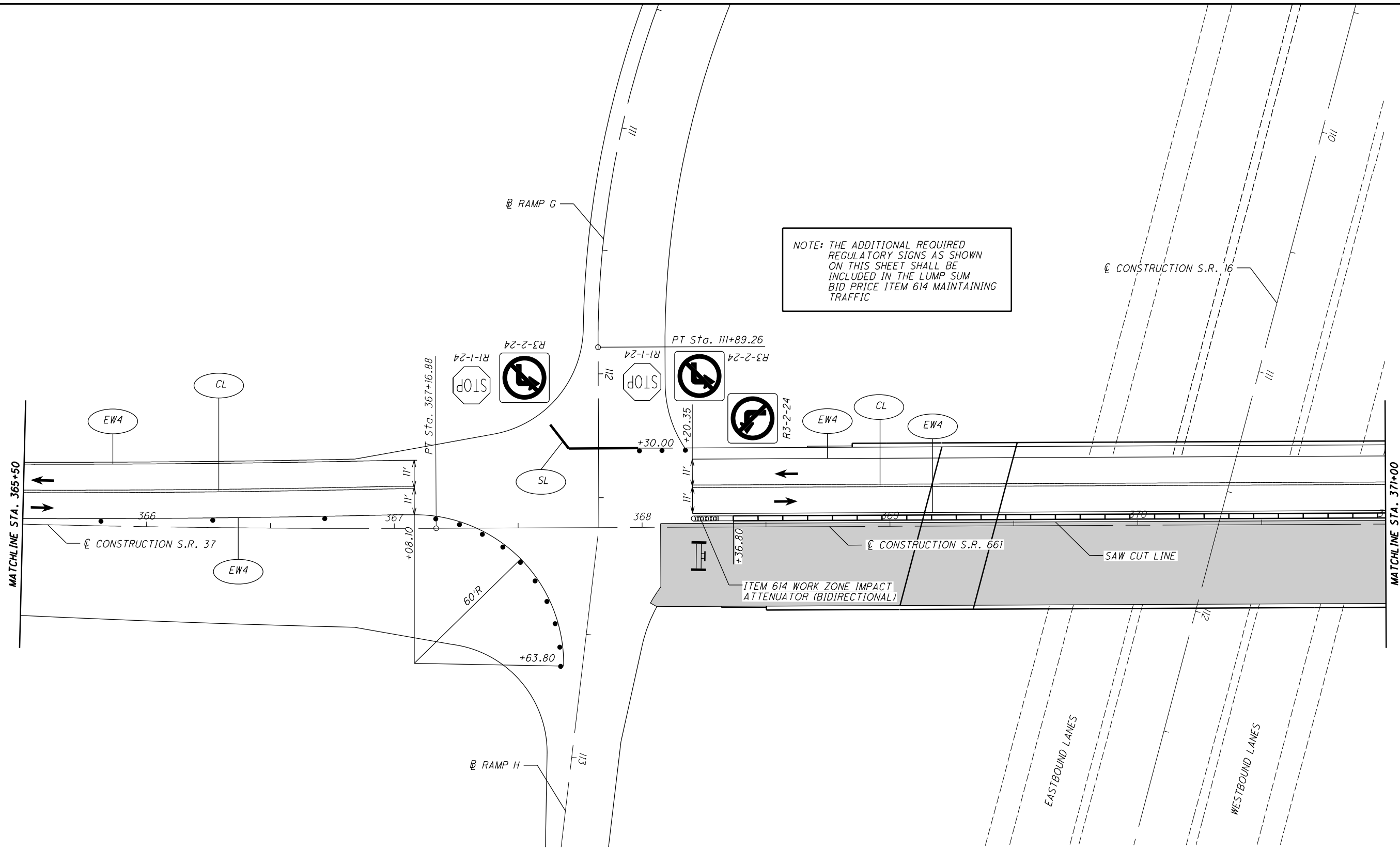
I:\ProjectData\LIC-924IL\Design\M0T\Sheets\924IL\_MP015.dgn Sheet 1/23/2020 8:49:37 AM hgliber1

CALCULATED  
BRH  
CHECKED  
HAG

0 20 40  
HORIZONTAL  
SCALE IN FEET

**MOT PHASE 2A - S.R. 37 / S.R.661  
STA. 365+50 TO STA. 371+00**

**LIC-37 / 661-  
16.59 / 0.00**





NOTE: THE ADDITIONAL REQUIRED REGULATORY SIGNS AS SHOWN ON THIS SHEET SHALL BE INCLUDED IN THE LUMP SUM BID PRICE ITEM 614 MAINTAINING TRAFFIC

**LEGEND**

	ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN		ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT		ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)
	ITEM 622, PORTABLE BARRIER, 32"		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)		ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT
	DIRECTION OF TRAFFIC		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW)		ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT
	ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT		TYPE III BARRICADE AS PER MT-101.60		CONSTRUCTION WORK AREA



I:\ProjectData\LIC\924IL\Design\01\Sheets\924IL\MP016.dgn Sheet 1/23/2020 8:50:21AM ngilbert

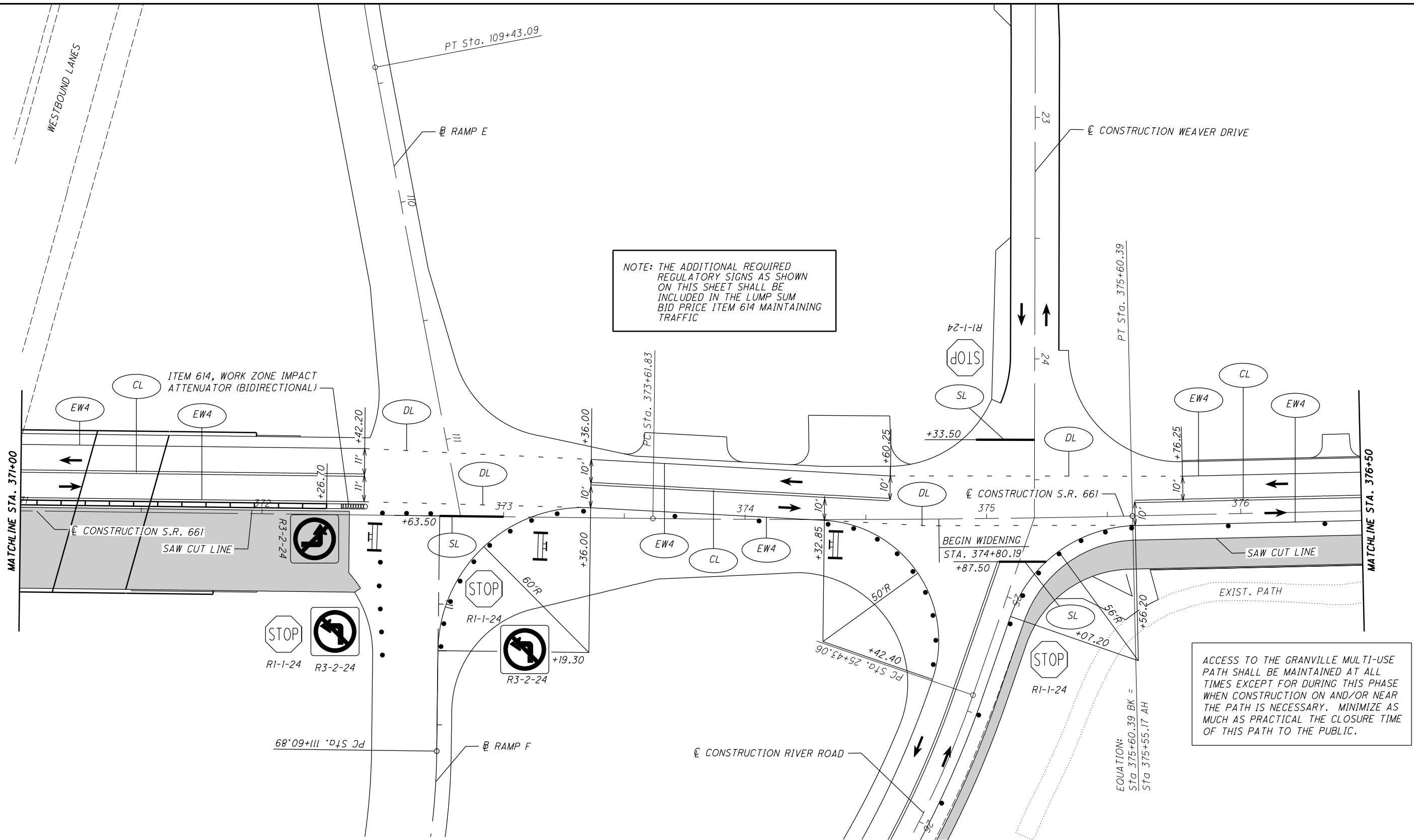

  

  
 HORIZONTAL SCALE IN FEET


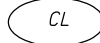
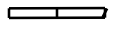
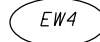








CALCULATED  
 BRH  
 CHECKED  
 HAG

**MOT PHASE 2A - S.R. 661**  
**STA. 371+00 TO STA. 376+50**

LIC-37 / 661-  
 16.59 / 0.00

66  
 341



LEGEND			
	ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN		ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT
	ITEM 622, PORTABLE BARRIER, 32"		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)
	DIRECTION OF TRAFFIC		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW)
	ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT		ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)
			ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT
			ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT
			TYPE III BARRICADE AS PER MT-101.60
			CONSTRUCTION WORK AREA

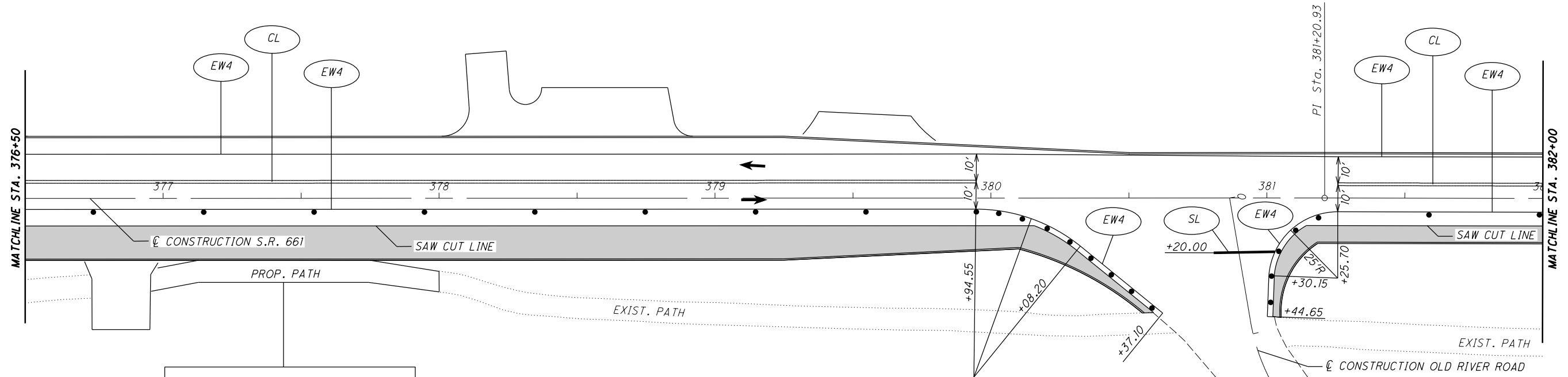


CALCULATED  
BRH  
CHECKED  
HAG

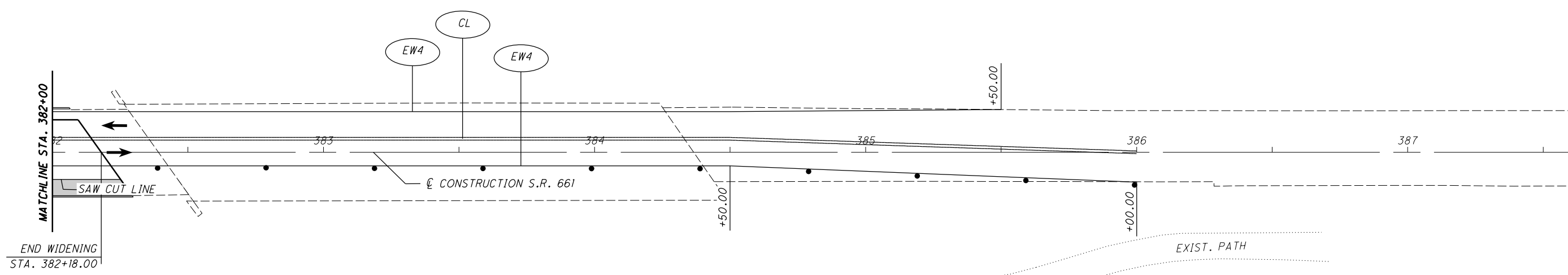
**MOT PHASE 2A - S.R. 661**  
**STA. 376+50 TO STA. 386+00**

**LIC-37 / 661-**  
**16.59 / 0.00**

67  
341



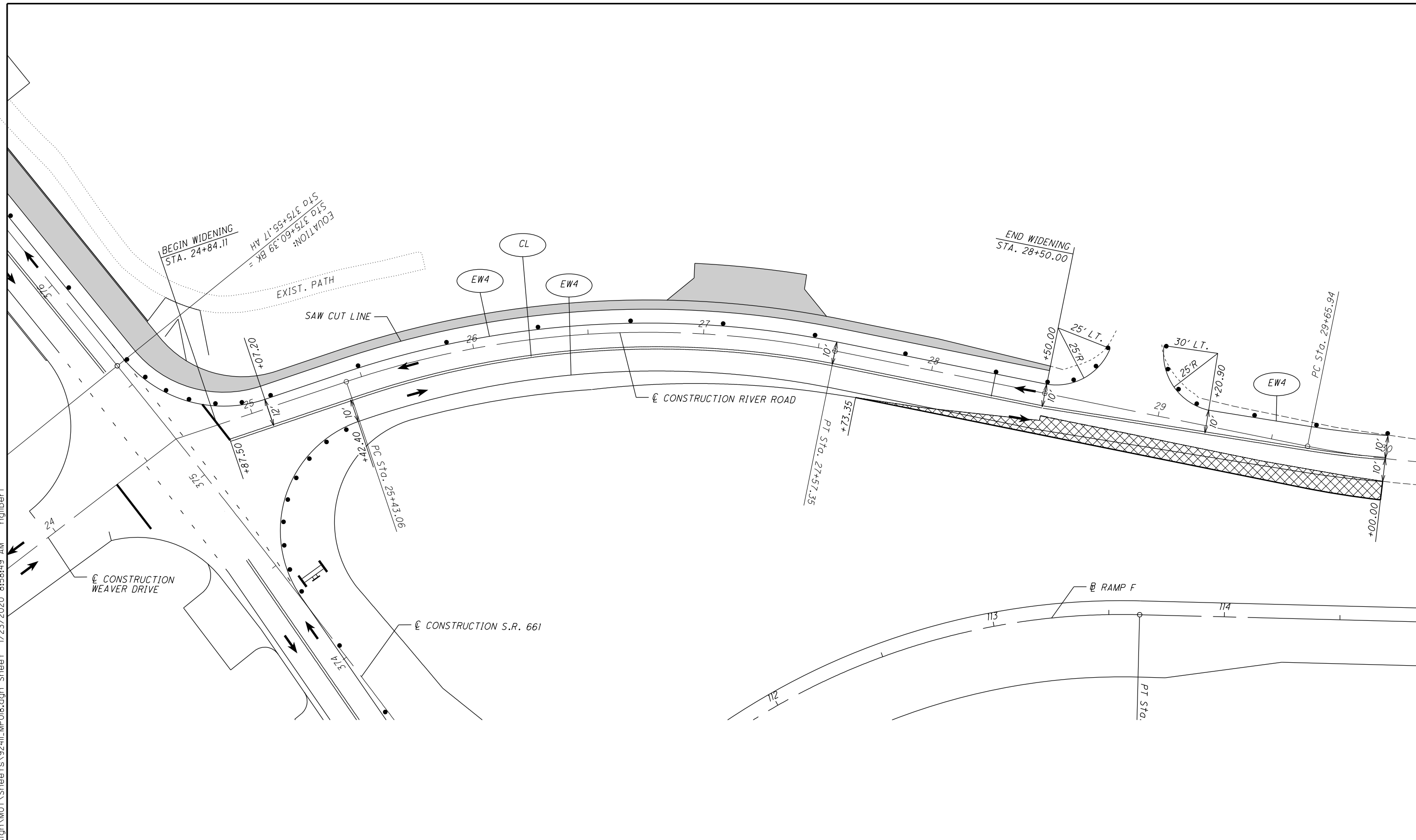
ACCESS TO THE GRANVILLE MULTI-USE PATH SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR DURING THIS PHASE WHEN CONSTRUCTION ON AND/OR NEAR THE PATH IS NECESSARY. MINIMIZE AS MUCH AS PRACTICAL THE CLOSURE TIME OF THIS PATH TO THE PUBLIC.



LEGEND			
	ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN		ITEM 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT
	ITEM 622, PORTABLE BARRIER, 32"		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (WHITE)
	DIRECTION OF TRAFFIC		ITEM 614, WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT (YELLOW)
	ITEM 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT		ITEM 614, WORK ZONE DOTTED LINE, CLASS I, 642 PAINT (WHITE)
			ITEM 614, WORK ZONE ARROW, CLASS I, 642 PAINT
			ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS I, 642 PAINT
	TYPE III BARRICADE AS PER MT-101.60		CONSTRUCTION WORK AREA

I:\ProjectData\LIC\_9241\Design\MOT\_Sheets\9241L\MPO17.dgn Sheet 1/23/2020 8:51:38 AM hgilber1

I:\ProjectData\LIC\_9241\Design\M0T\_Sheets\9241L\_MP018.dgn Sheet 1/23/2020 8:58:49 AM hgilber1



CALCULATED  
BRH  
CHECKED  
HAG

0 10 20 40  
HORIZONTAL  
SCALE IN FEET

**MOT PHASE 2A - RIVER RD.  
STA. 24+84.11 TO STA. 30+00.00**

**LIC-37 / 661-  
16.59 / 0.00**

68  
341

LEGEND			
	ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN		ITEM 614, WORK ZONE CENTER LINE, CLASS 1, 642 PAINT
	ITEM 622, PORTABLE BARRIER, 32"		ITEM 614, WORK ZONE EDGE LINE, CLASS 1, 4", 642 PAINT (WHITE)
	DIRECTION OF TRAFFIC		ITEM 614, WORK ZONE EDGE LINE, CLASS 1, 4", 642 PAINT (YELLOW)
	ITEM 614, WORK ZONE STOP LINE, CLASS 1, 642 PAINT		ITEM 614, WORK ZONE DOTTED LINE, CLASS 1, 642 PAINT (WHITE)
			ITEM 614, WORK ZONE ARROW, CLASS 1, 642 PAINT
			ITEM 614, WORK ZONE WORD ON PAVEMENT, 72", CLASS 1, 642 PAINT
			TYPE III BARRICADE AS PER MT-101.60
			CONSTRUCTION WORK AREA

I:\ProjectData\LIC\9241\Design\Roadway\Sheets\9241\_G0003.dgn\_Sheet 1/22/2020 5:07:35 PM ngilbert

SHEET NUM.				PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
20	181	182	274	01/NHS/B R	02/NHS/P V	03/S<2/O T	04/NHS/O T						
	0.84	0.21				0.84	0.21	602	20000	1.05	CY	CONCRETE MASONRY	
	6,369	2,853				6,369	2,853	605	11100	9,222	FT	6" SHALLOW PIPE UNDERDRAINS	
	294	100				294	100	605	13300	394	FT	6" UNCLASSIFIED PIPE UNDERDRAINS	
	174	54				174	54	611	00510	228	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
	112	11				112	11	611	00900	123	FT	6" CONDUIT, TYPE B	
		50					50	611	01500	50	FT	6" CONDUIT, TYPE F	
		74					74	611	04600	74	FT	12" CONDUIT, TYPE C	
	204					204		611	05200	204	FT	12" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21	
10							10	611	97400	10	FT	CONDUIT, MISC.: TYPE B FOR DRAINAGE DISCHARGE CONTINUANCE	20
10							10	611	97400	10	FT	CONDUIT, MISC.: TYPE C FOR DRAINAGE DISCHARGE CONTINUANCE	20
10							10	611	97400	10	FT	CONDUIT, MISC.: TYPE E FOR DRAINAGE DISCHARGE CONTINUANCE	20
10							10	611	97400	10	FT	CONDUIT, MISC.: TYPE F FOR DRAINAGE DISCHARGE CONTINUANCE	20
		2					2	611	98151	2	EACH	CATCH BASIN, NO. 3, AS PER PLAN	20
		2					2	611	98181	2	EACH	CATCH BASIN, NO. 3A, AS PER PLAN	20
	4						4	611	98301	4	EACH	CATCH BASIN, NO. 5, AS PER PLAN	20
			4				4	611	99115	4	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE D, AS PER PLAN	20
	6	4					6	611	99710	10	EACH	PRECAST REINFORCED CONCRETE OUTLET	
1							1	611	99720	1	EACH	INSPECTION WELL	

GENERAL SUMMARY

LIC-37 / 661-  
16.59 / 0.00

CALCULATED  
BRH  
CHECKED  
HAG



I:\ProjectData\LIC\9241\Design\Roadway\Sheets\9241\_G0006.dgn\_Sheet 1/15/2020 8:07:56 AM bharlow

SHEET NUM.											PART.				ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
24	79	167	201	203	204	205	215	216	228	229	01/NHS/B R	02/NHS/P V	03/S<2/O T	04/NHS/O T						
<b>TRAFFIC CONTROL</b>																				
						183						111	72	621	00100	183	EACH	RPM		
						35						9	26	621	54000	35	EACH	RAISED PAVEMENT MARKER REMOVED		
									1			1		625	32000	1	EACH	GROUND ROD		
	4	6										4		6	626	00102	10	EACH	BARRIER REFLECTOR, TYPE 1 (BIDIRECTIONAL)	
	21											21			626	00110	21	EACH	BARRIER REFLECTOR, TYPE 2 (UNIDIRECTIONAL)	
	43	3										24	19	3	626	00110	46	EACH	BARRIER REFLECTOR, TYPE 2 (BIDIRECTIONAL)	
									363	267		363	267		630	03100	630	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
									62	84		62	84		630	04100	146	FT	GROUND MOUNTED SUPPORT, NO. 4 POST	
									58			58			630	06100	58	FT	GROUND MOUNTED SUPPORT, NO. 6 POST	
									81	37		81	37		630	07600	118	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	
									2			2			630	08200	2	EACH	GROUND MOUNTED SUPPORT, PIPE	
									13	1		13	1		630	08600	14	EACH	SIGN POST REFLECTOR	
									4	2		4	2		630	09000	6	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION	
									2			2			630	09050	2	EACH	TRIANGULAR SLIP BASE CONNECTION	
									1			1			630	20200	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 2	
			6									6			630	75000	6	EACH	SIGN ATTACHMENT ASSEMBLY	
									361	173		361	173		630	80100	534	SF	SIGN, FLAT SHEET	
									190	51		190	51		630	80200	241	SF	SIGN, GROUND MOUNTED EXTRUSHEET	
			120						49			169			630	80224	169	SF	SIGN, OVERHEAD EXTRUSHEET	
									4	2		4	2		630	84500	6	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
									1			1			630	84510	1	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
									2			2			630	84600	2	EACH	GROUND MOUNTED PIPE SUPPORT FOUNDATION	
							65	49				65	49		630	84900	114	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
							6	5				6	5		630	85100	11	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
								2					2		630	85200	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DELIVERY	
							8	1				8	1		630	85400	9	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	
							44	40				44	40		630	86002	84	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
								1					1		630	86050	1	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DELIVERY	
							8	2				8	2		630	86103	10	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL, AS PER PLAN	
							2					2			630	86272	2	EACH	REMOVAL OF GROUND MOUNTED PIPE SUPPORT AND DISPOSAL	
							1	1				1	1		630	87400	2	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND DISPOSAL	
							8					8			630	87500	8	EACH	REMOVAL OF POLE MOUNTED SIGN AND DISPOSAL	
							1	1				1	1		630	89707	2	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-12.30, AS PER PLAN	
										1			1		631	92001	1	EACH	SIGN FLASHER ASSEMBLY, AS PER PLAN	
0.5													0.5		642	00300	0.5	MILE	CENTER LINE, TYPE 1	
				0.19									0.19		644	00100	0.19	MILE	EDGE LINE, 4"	
				1.02									1.02		644	00104	1.02	MILE	EDGE LINE, 6"	
				0.8									0.8		644	00300	0.8	MILE	CENTER LINE	
				670									670		644	00400	670	FT	CHANNELIZING LINE, 8"	
				122									122		644	00500	122	FT	STOP LINE	
				276									276		644	00600	276	FT	CROSSWALK LINE	
				437									437		644	00700	437	FT	TRANSVERSE/DIAGONAL LINE	
				12									12		644	01300	12	EACH	LANE ARROW	
				4									4		644	01400	4	EACH	WORD ON PAVEMENT, 72"	
				0.18	1.26							1.44			646	10010	1.44	MILE	EDGE LINE, 6"	
				0.11								0.11			646	10200	0.11	MILE	CENTER LINE	
				776	810							1,586			646	10300	1,586	FT	CHANNELIZING LINE, 8"	
				108	114							222			646	10400	222	FT	STOP LINE	
				180								180			646	10600	180	FT	TRANSVERSE/DIAGONAL LINE	
				492								492			646	10800	492	SF	ISLAND MARKING	
				7	14							21			646	20300	21	EACH	LANE ARROW	
					2							2			646	20320	2	EACH	WRONG WAY ARROW	
				2	2							4			646	20400	4	EACH	WORD ON PAVEMENT, 72"	

**GENERAL SUMMARY**

**LIC-37 / 661-  
16.59 / 0.00**



I:\ProjectData\LIC\9241\Design\Roadway\Sheets\9241\_LC0008.dgn\_Sheet 1/29/2020 12:55:59 PM hgilber1

Sheet No.	Reference No.	Station	Side	Drive Type	Length	Pavement Width	R1 (Left Side Radii of Drive Looking From CL)	R2 (Right Side Radii of Drive Looking From CL)	Pavement Area (Calculated Using CADD)	202	202	204	301	304		407	441	452	823	823	
										PAVEMENT REMOVED	PAVEMENT REMOVED, ASPHALT	SUBGRADE COMPACTION	5.00"	6.00"	8.00"	0.06	1.25"	8.00"	1.25"	1.75"	
										SY	SY	SY	CY	CY	CY	GAL	CY	SY	CY	CY	
<b>PLAN SPLIT CODE 03/S&lt;2/PV</b>																					
<b>S.R. 37 &amp; S.R. 661</b>																					
90	1-D	362+33.98	RT.	FIELD/BITUM. COATED.	15.1	30			59.7	59.7	59.7										
91	2-D	363+56.30	LT.	RESIDENTIAL/GRAVEL	21.7	8			33.5		33.5	4.7				2.0	1.2				
91	3-D	364+53.89	LT.	RESIDENTIAL/GRAVEL	10.0	48			69.0		69.0	9.6				4.1	2.4				
91	4-D	364+83.79	RT.	RESIDENTIAL/BITUM. COATED	10.3	15			27.8	27.8	27.8	3.9				1.7	1.0				
91	5-D	365+11.17	LT.	RESIDENTIAL/ASPHALT	10.0	19			32.6	32.6	32.6	4.5				2.0	1.1				
92	6-D	373+75.08	LT.	COMMERCIAL/ASPHALT	10.0	34	7	7	40.8	40.8	40.8	5.7				2.4	1.4				
93	7-D	374+43.38	LT.	COMMERCIAL/ASPHALT	21.0	34	7	10	82.7	82.7	82.7	11.5				5.0	2.9				
93	8-D	376+40.06	LT.	RESIDENTIAL/ASPHALT	9.5	11	5	5	13.3	13.3	13.3	1.8				0.8	0.5				
93	9-D	376+85.00	RT.	COMMERCIAL/ASPHALT	23.9	21	10	10	62.9	62.9	62.9	8.7				3.8	2.2				
93	10-D	378+21.13	LT.	RESIDENTIAL/GRAVEL	30.5	15	10	6	60.4		60.4	8.4				3.6	2.1				
93	11-D	378+60.82	LT.	COMMERCIAL/ASPHALT	17.6	46	6	7	101.8	101.8	101.8	14.1				6.1	3.5				
94	12-D	379+54.34	LT.	COMMERCIAL/CONCRETE	9.5	35	40	40	43.4	43.4	43.4							43.4			
<b>WEAVER DRIVE</b>																					
151	13-D	22+32.29	RT.	COMMERCIAL/GRAVEL	6.9	46			40.5		40.5	5.6				2.4	1.4				
151	14-D	23+85.92	RT.	COMMERCIAL/ASPHALT	7.0	62			47.9	47.9	47.9	6.7				2.9	1.7				
<b>RIVER ROAD</b>																					
154	15-D	27+17.59	LT.	COMMERCIAL/ASPHALT	14.3	49			88.3	88.3	88.3	12.3				5.3	3.1				
<b>RIVER ROAD CUL-DE-SAC</b>																					
157	16-D	5+73.62	LT.	COMMERCIAL/ASPHALT	11.7	38		12.5	34.2	34.2	34.2	4.8				2.1	1.2				
<b>MULTI-USE PATH</b>																					
93	STA. 376+96.82 TO STA. 378+00		RT.		103.2	8			91.7	91.7	91.7		17.2						3.2	4.5	
<b>Sub-Totals This Sheet</b>										135.1	592.0	930.5	102.2	17.2	13.3	44.1	25.5	43.4	3.2	4.5	
<b>Totals Carried to General Summary</b>										136	592	931	103	31		45	26	44	4	5	

CALCULATED	CMY	CHECKED	HG
<b>DRIVE CALCULATIONS</b>			
LIC-37 / 661- 16.59 / 0.00			
87 341			





I:\ProjectData\LIC\9241\Design\Drainage\Sheets\9241L\_DS001.dgn Sheet 1/22/2020 5:03:32 PM ngilber1

REFERENCE	STATION TO STATION	SIDE	601		601		602	605	605	611		611		611		611		BENDS AND CONNECTORS FOR INFORMATION ONLY									
			TIED CONCRETE BLOCK MAT, TYPE 1		ROCK CHANNEL PROTECTION, TYPE C WITH FILTER	CONCRETE MASONRY	6" SHALLOW PIPE UNDERDRAIN	6" UNCLASSIFIED PIPE UNDERDRAIN			6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	6" CONDUIT, TYPE B			12" CONDUIT, TYPE F, 707.05 TYPE C OR 707.21			CATCH BASIN, NO. 5, AS PER PLAN	PRECAST REINFORCED CONCRETE OUTLET	CAP	CROSS	TEE	45° BEND	90° BEND	45° WYE		
PLAN SPLIT CODE 02/NHS/PV			SO. YD.		CU. YD.	CU. YD.	FT.	FT.		FT.	FT.			FT.		EA.	EA.										
<b>UNDERDRAINS</b>																											
1-UD	366+89 - 367+40	LT	1.8					51		17							1				1						
2-UD	366+89 - 367+24	RT						35																			
3-UD	366+89 - 369+06	RT						185	32			8						1			1						
4-UD	367+00 - 369+19	LT						209	10			8						2			1						
6-UD	371+59 - 372+44	LT						85										1									
7-UD	371+46 - 372+36	RT						90										1									
15-UD	RAMP E 107+08 - 111+01	RT						405				17						1			1						
16-UD	RAMP E 107+08 - 111+11	LT	1.8					418		24							1			1							
17-UD	RAMP F 110+88 - 117+07	RT						597		28													1	1			
18-UD	RAMP F 110+95 - 117+07	LT	1.8					631		23	17						1				1		1	1			
19-UD	RAMP G 103+75 - 112+30	RT						884			26										1	1				1	
20-UD	RAMP G 103+75 - 112+37	LT	1.8					860		26	19						1	1	1			2					
21-UD	RAMP H 112+55-123+12	RT	1.8					960	126	16	17						1	1			2						
22-UD	RAMP H 112+98 - 123+12	LT	1.8					959	126	40							1	2	1		1						
<b>STORM SEWER</b>																											
5-SS	117+07+/- RAMP F	RT														1											
6-SS	121+92+/- S.R. 16	LT														1											
7-SS	6-95.7+/- RIVER ROAD	RT														1											
12-SS	116+86+/- RAMP F	LT														1											
8-SS	368+74.0	RT			1.4	0.21										70											
9-SS	369+09.0	LT			1.6	0.21										49											
10-SS	371+56.0	RT			1.4	0.21										41											
11-SS	371+75.7	LT			1.4	0.21										44											
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>			10.8		5.8	0.84	6369	294		174	112			204		4		6	10	3	9	3	2	2			

**DRAINAGE SUBSUMMARY**

**LIC-37 / 661-  
16.59 / 0.00**

CALCULATED  
RUG  
CHECKED  
HAG

181  
341



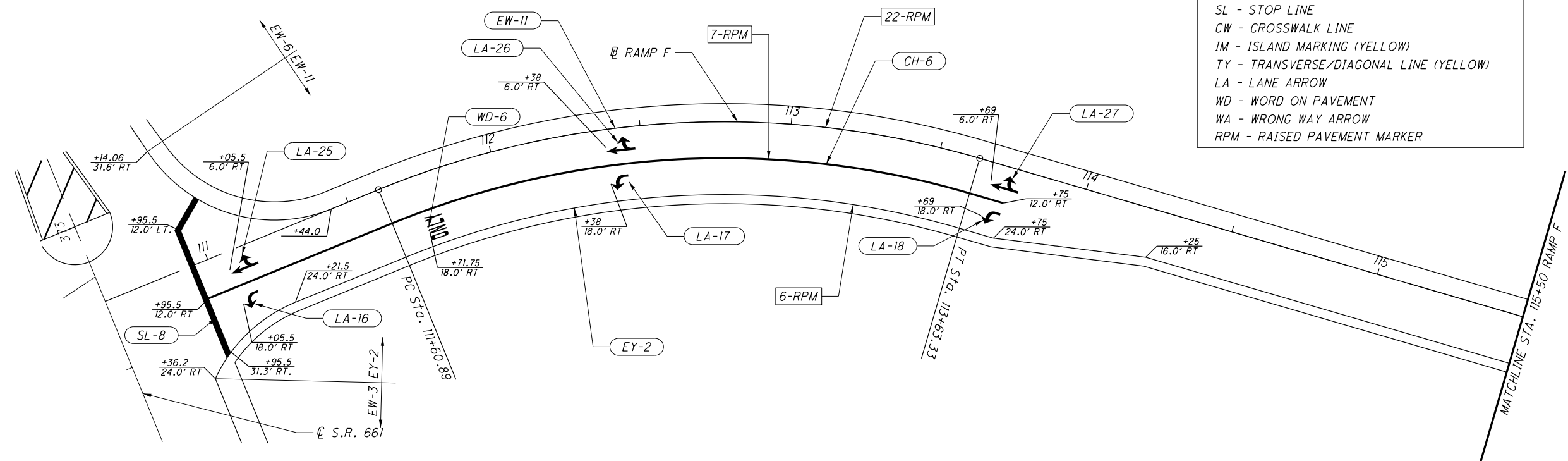


I:\ProjectData\LIC\924I\Design\Traffic\Sheets\924I\TS009.dgn Sheet 1/15/2020 8:07:57 AM bharlow

SHEET NO.	REFERENCE NO.	LOCATION	STATION		RPM 1-WAY WHITE	621			INFO ONLY	621
			FROM	TO		RPM 2-WAY WHITE/RED	RPM 2-WAY YELLOW/RED	RPM 2-WAY YELLOW/YELLOW	RPM SPACING CENTER/CENTER SEE SCD'S TC-65.10 AND TC-65.11	RAISED PAVEMENT MARKER REMOVED
						EACH	EACH	EACH	FEET	EACH
<b>PLAN SPLIT CODE 03/S&lt;2/PV</b>										
206-207	1-RPM	S.R. 37 WHITE EDGE LINE (EW-2 )	360+30	367+50	16				40/80	
206-207	2-RPM	S.R. 37 YELLOW CENTER LINE (CL-1)	349+50	367+50				23	80	23
206-207	3-RPM	S.R. 37 YELLOW CENTER LINE (CL-2)	361+50	367+50				8	80	
206-207	4-RPM	S.R. 37 CHANNELIZING LINE WHITE (CH-1)	364+00	367+50		9			40	
208	17-RPM	S.R. 661 WHITE EDGE LINE (EW-5)	373+00	374+60	4				40	
208	18-RPM	S.R. 661 YELLOW CENTER LINE (CL-4)	373+00	374+60				3	80	3
208	19-RPM	S.R. 661 WHITE EDGE LINE (EW-6)	373+14	374+22	3				40	
208	20-RPM	S.R. 661 YELLOW CENTER LINE (CL-5)	373+00	374+32				3	80	
208	21-RPM	S.R. 661 CHANNELIZING LINE WHITE (CH-4)	373+75	374+60		3			40	
<b>PLAN SPLIT CODE 03/S&lt;2/PV TOTAL</b>						23	12	37		26
<b>PLAN SPLIT CODE 02/NHS/PV</b>										
210	5-RPM	WESTBOUND ON-RAMP YELLOW EDGE LINE (EY-1) RAMP E	107+07.62	111+00			6		80	
211	6-RPM	WESTBOUND OFF-RAMP YELLOW EDGE LINE (EY-2) RAMP F	111+00	118+42			10		80	3
211	7-RPM	WESTBOUND OFF-RAMP WHITE CHANNELIZING LINE (CH-6) RAMP F	111+00	113+75		7			40	
211	22-RPM	WESTBOUND OFF-RAMP WHITE EDGE LINE (EW-11) RAMP F	111+00	119+40		16			40/80	
212	8-RPM	EASTBOUND OFF-RAMP YELLOW EDGE LINE (EY-3) RAMP G	103+65.69	112+25			11		80	
212	9-RPM	EASTBOUND OFF-RAMP WHITE CHANNELIZING LINE (CH-7) RAMP G	107+00	112+25		13			40	
212	23-RPM	EASTBOUND OFF-RAMP WHITE EDGE LINE (EW-12) RAMP G	103+60	112+20		16			40/80	
213	10-RPM	EASTBOUND ON-RAMP YELLOW EDGE LINE (EY-4) RAMP H	112+27	123+13			14		80	3
207	11-RPM	S.R. 661 WHITE EDGE LINE (EW-4)	368+20	369+20	3				40	
207	12-RPM	S.R. 661 YELLOW CENTER LINE (CL-3)	368+50	369+10				3	80	
207	13-RPM	S.R. 661 CHANNELIZING LINE WHITE (CH-2)	368+50	369+15		3			40	
208	14-RPM	S.R. 661 WHITE EDGE LINE (EW-3)	371+46	372+36	3				40	
208	15-RPM	S.R. 661 YELLOW CENTER LINE (CL-3)	371+50	372+05				3	80	3
208	16-RPM	S.R. 661 CHANNELIZING LINE WHITE (CH-3)	371+52	372+05		3			40	
<b>PLAN SPLIT CODE 02/NHS/PV TOTAL</b>						6	58	41	6	9
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>						183				35

CALCULATED RUG	CHECKED HAG		
RPM SUBSUMMARY			
LIC-37 / 661- 16.59 / 0.00			
<table border="1" style="margin: auto;"> <tr> <td style="padding: 5px;">205</td> </tr> <tr> <td style="padding: 5px;">341</td> </tr> </table>		205	341
205			
341			

I:\ProjectData\LIC\9244\Design\Traffic\Sheets\9244\_IP006.dgn Sheet 1/15/2020 8:07:58 AM bncrlow

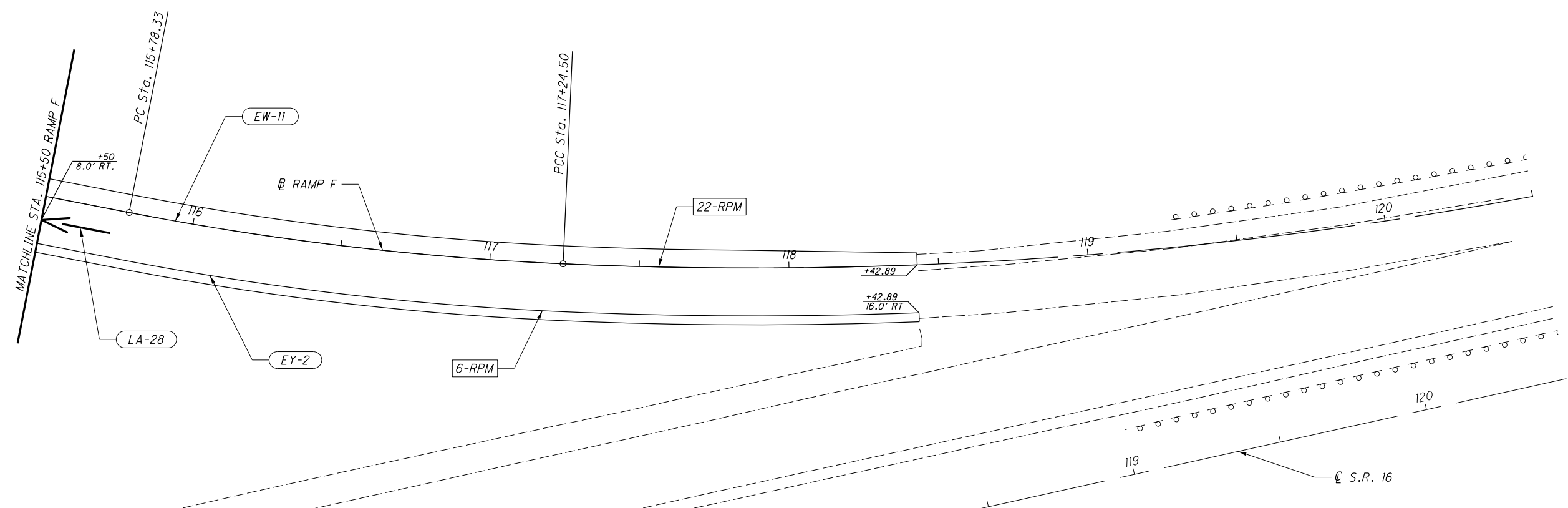


**LEGEND**

- EW - EDGE LINE (WHITE)
- EY - EDGE LINE (YELLOW)
- CL - CENTER LINE
- CH - CHANNELIZING LINE
- SL - STOP LINE
- CW - CROSSWALK LINE
- IM - ISLAND MARKING (YELLOW)
- TY - TRANSVERSE/DIAGONAL LINE (YELLOW)
- LA - LANE ARROW
- WD - WORD ON PAVEMENT
- WA - WRONG WAY ARROW
- RPM - RAISED PAVEMENT MARKER

CALCULATED  
CMY  
CHECKED  
XXX

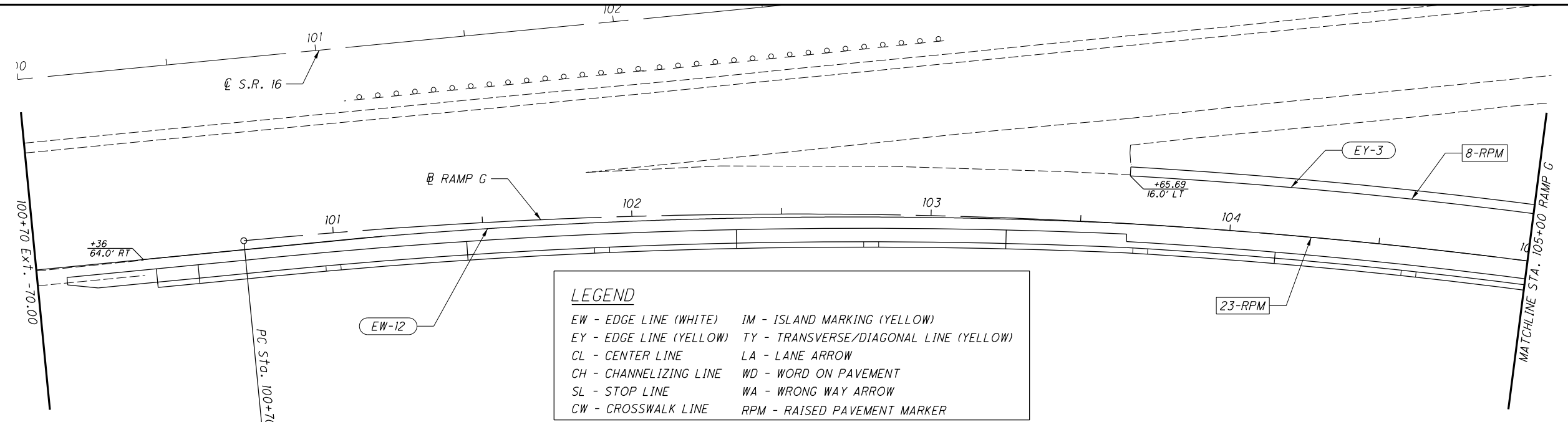
0 20 40  
HORIZONTAL  
SCALE IN FEET



**RAMP F PAVEMENT MARKING PLAN SHEET**  
**STA. 110+63 TO STA. 120+50**

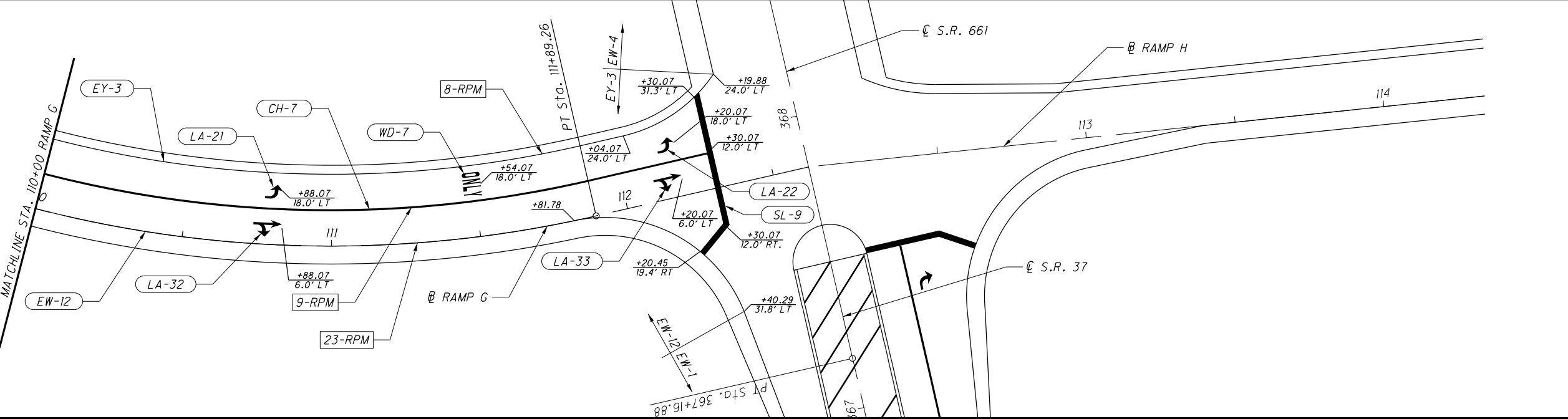
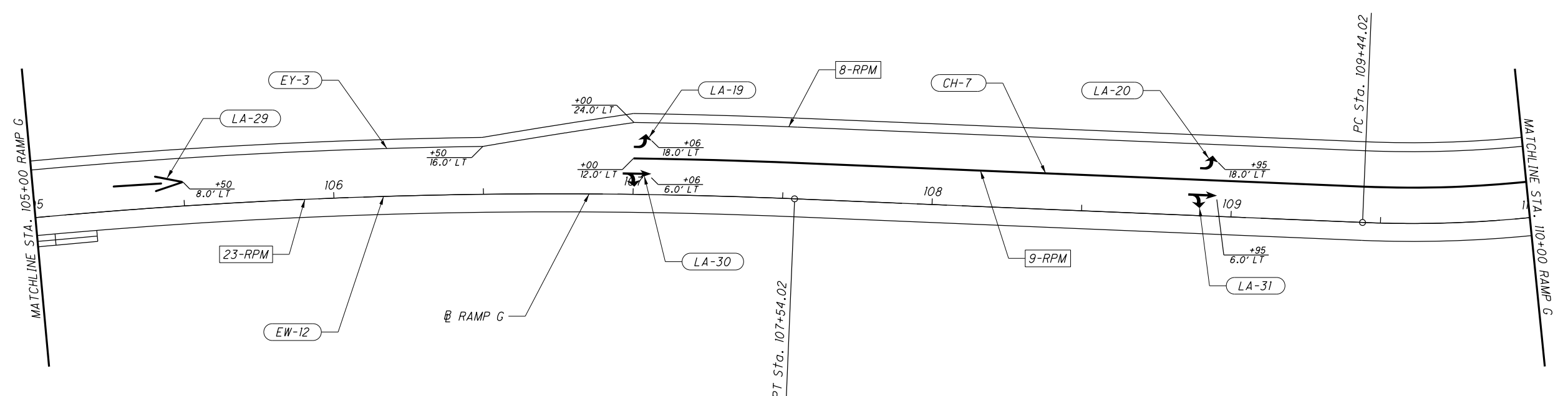
**LIC-37 / 661-**  
**16.59 / 0.00**



I:\ProjectData\LIC\_9241\Design\Traffic\Sheets\9241\_IP007.dgn Sheet 1/15/2020 8:07:59 AM bharlow



**LEGEND**

EW - EDGE LINE (WHITE)	IM - ISLAND MARKING (YELLOW)
EY - EDGE LINE (YELLOW)	TY - TRANSVERSE/DIAGONAL LINE (YELLOW)
CL - CENTER LINE	LA - LANE ARROW
CH - CHANNELIZING LINE	WD - WORD ON PAVEMENT
SL - STOP LINE	WA - WRONG WAY ARROW
CW - CROSSWALK LINE	RPM - RAISED PAVEMENT MARKER



  
  
 HORIZONTAL SCALE IN FEET  
 CALCULATED CMY  
 CHECKED XXX

**RAMP G PAVEMENT MARKING PLAN SHEET**

**STA. 100+70 TO STA. 112+50**

**LIC-37 / 661-**  
**16.59 / 0.00**

212  
 341

I:\ProjectData\LIC\9241\Design\Traffic\Sheets\9241L\_TS007.dgn Sheet 1/15/2020 8:07:59 AM bhario

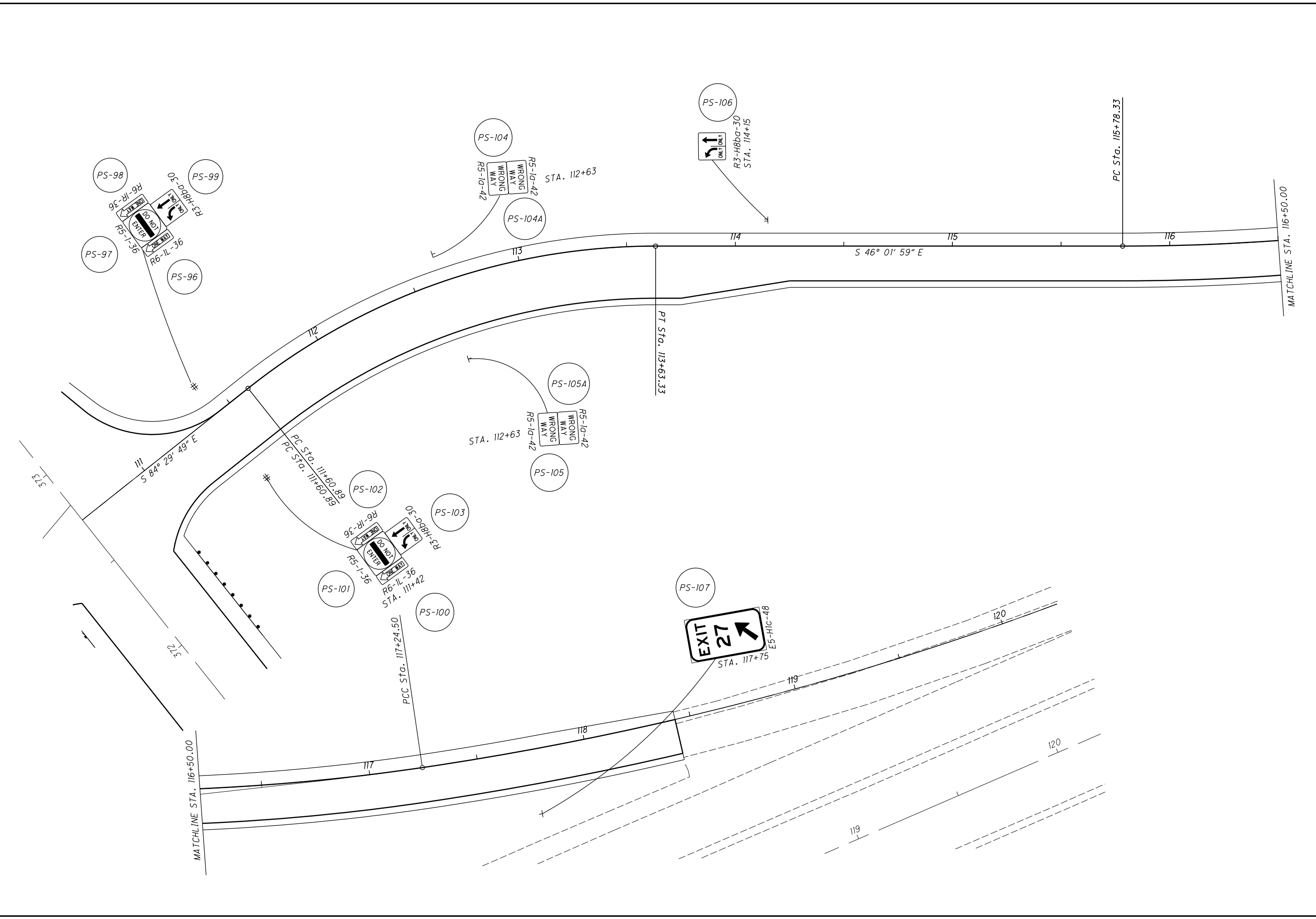
SHEET NO.	REFERENCE NO.	LOCATION	STATION	SIDE	CODE	SIZE (INCHES)	625	630	630	630	630	630	630	630	630	630	630	630	630	631							
							GROUND ROD	GROUND MOUNTED SUPPORT, NO. 3 POST	GROUND MOUNTED SUPPORT, NO. 4 POST	GROUND MOUNTED SUPPORT, NO. 6 POST	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	GROUND MOUNTED SUPPORT, PIPE	SIGN POST REFLECTOR	BREAKAWAY STRUCTURAL BEAM CONNECTION	TRIANGULAR SLIP BASE CONNECTION	OVERHEAD SIGN SUPPORT, TYPE TC-12.30 DESIGN 2	SIGN, FLAT SHEET	SIGN, GROUND MOUNTED EXTRUSHEET	SIGN, OVERHEAD EXTRUSHEET	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	GROUND MOUNTED PIPE SUPPORT FOUNDATION	SIGN FLASHER ASSEMBLY, AS PER PLAN				
PLAN SPLIT CODE 02/NHS/PV							EACH	FT	FT	FT	FT	EACH	EACH	EACH	EACH	EACH	SF	SF	SF	EACH	EACH	EACH	EACH				
234	PS-95	RAMP E	107+94	RT	W4-IR-36	36 X 36		15.7					1					9.00									
235	PS-96	RAMP F	111+42	LT	R6-IR-36	36 X 12		15.8					1					3.00									
235	PS-97	RAMP F	111+42	LT	R5-1-36	36 X 36												9.00									
235	PS-98	RAMP F	111+42	LT	R6-IR-36	36 X 12												3.00									
235	PS-99	RAMP F	111+42	LT	R3-H8ba-30	30 X 30												6.25									
235	PS-100	RAMP F	111+42	RT	R6-IR-36	36 X 12		16.2					1					3.00									
235	PS-101	RAMP F	111+42	RT	R5-1-36	36 X 36												9.00									
235	PS-102	RAMP F	111+42	RT	R6-IR-36	36 X 12												3.00									
235	PS-103	RAMP F	111+42	RT	R3-H8ba-30	30 X 30												6.25									
235	PS-104	RAMP F	112+63	LT	R5-1a-42	42 X 30		26.0					2					8.75									
235	PS-104A	RAMP F	112+63	LT	R5-1a-42	42 X 30												8.75									
235	PS-105	RAMP F	112+63	RT	R5-1a-42	42 X 30		26.0					2					8.75									
235	PS-105A	RAMP F	112+63	RT	R5-1a-42	42 X 30												8.75									
235	PS-106	RAMP F	114+15	LT	R3-H8ba-30	30 X 30		10.0										6.25									
235	PS-107	RAMP F	117+75	RT	E5-H1d-48	48 X 84						1			1				28				1				
236	PS-108	RAMP G	104+60	LT	E5-H1d-48	48 X 84						1			1				28				1				
236	PS-109	RAMP G	106+54	RT	R3-H8ba-30	30 X 30		14.5										6.25									
236	PS-110	RAMP G	109+18	LT	R5-1a-42	42 X 30		26.0					2					8.75									
236	PS-110A	RAMP G	109+18	LT	R5-1a-42	42 X 30												8.75									
236	PS-111	RAMP G	109+18	RT	R5-1a-42	42 X 30		26.0					2					8.75									
236	PS-111A	RAMP G	109+18	RT	R5-1a-42	42 X 30												8.75									
236	PS-112	RAMP G	110+58	RT	D1-H1a-72	72 X 1					28.9							6.00									
236	PS-113	RAMP G	110+58	RT	D1-H1a-72	72 X 1					28.9							6.00									
236	PS-114	RAMP G	110+58	RT	M6-1-21	21 X 15												2.19									
236	PS-115	RAMP G	110+58	RT	M1-5-30-3	30 X 24												5.00									
236	PS-116	RAMP G	110+58	RT	M3-1-24	24 X 12												2.00									
236	PS-117	RAMP G	110+58	RT	M6-1-21	21 X 15												2.19									
236	PS-118	RAMP G	110+58	RT	M1-5-24-2	24 X 24												4.00									
236	PS-119	RAMP G	110+58	RT	M3-2-24	24 X 12												2.00									
236	PS-120	RAMP G	111+94	LT	R3-H8ba-30	30 X 30			16.4				1					6.25									
236	PS-121	RAMP G	111+94	LT	R6-1L-36	36 X 12												3.00									
236	PS-122	RAMP G	111+94	LT	R5-1-36	36 X 36												9.00									
236	PS-123	RAMP G	111+94	LT	R6-1R-36	36 X 12												3.00									
236	PS-124	RAMP G	111+94	RT	R3-H8ba-30	30 X 30			15.8				1					6.25									
236	PS-125	RAMP G	111+94	RT	R6-1L-36	36 X 12												3.00									
236	PS-126	RAMP G	111+94	RT	R5-1-36	36 X 36												9.00									
236	PS-127	RAMP G	111+94	RT	R6-1R-36	36 X 12												3.00									
SUB-TOTALS								176.2	32.2	57.8		2	13		2				205.88	56					2		
TOTALS FROM SHEET 227 (PLAN SPLIT 02/NHS/PV)								1	185.9	29.0		80.9			4			1			154.625	134	49		4	1	
TOTALS CARRIED TO GENERAL SUMMARY								1	363	62	58	81	2	13	4	2	1				361	190	49		4	1	2

PROPOSED SIGNING SUBSUMMARY

LIC-37 / 661-  
16.59 / 0.00

CALCULATED  
RUG  
CHECKED  
HAG





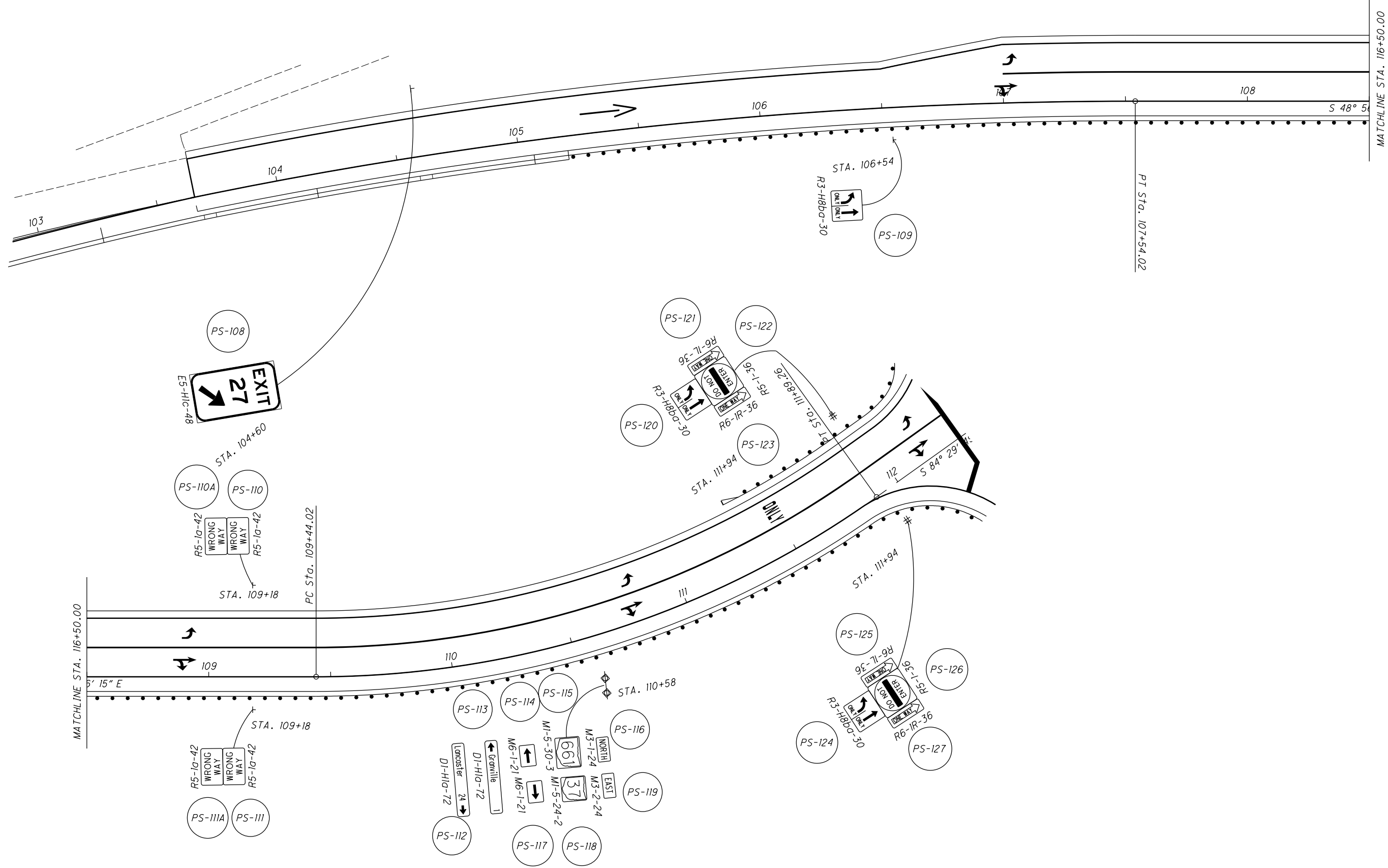
CALCULATED  
RJC  
CHECKED  
HAG

0  
0  
0  
HORIZONTAL  
SCALE IN FEET

**PROPOSED SIGNS  
RAMP F**

**LIC-37 / 661-  
16.59 / 0.00**

I:\ProjectData\LIC\_9241\Design\Traffic\Sheets\9241\_IP026.dgn Sheet 1/15/2020 8:08:01AM bharlow



CALCULATED  
RJC  
CHECKED  
HAG

0  
0  
0  
HORIZONTAL  
SCALE IN FEET

**PROPOSED SIGNS  
RAMP G**

**LIC-37 / 661-  
16.59 / 0.00**

**STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS**

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING(S):

- AS-1-15 DATED/REVISED 7/17/15
- AS-2-15 DATED/REVISED 1/18/19
- GSD-1-19 DATED/REVISED 1/18/19
- PCB-91 DATED/REVISED 1/18/13
- SBR-1-13 DATED/REVISED 7/20/18
- SICD-1-96 DATED/REVISED 7/18/14
- SICD-2-14 DATED/REVISED 7/18/14
- VFP-1-90 DATED/REVISED 7/20/18

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:

- SS 840 DATED/REVISED 1/18/19
- SS 867 DATED/REVISED 1/18/19
- SS 878 DATED/REVISED 1/18/19

**DESIGN SPECIFICATIONS**

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 8TH EDITION, NOVEMBER 2017 AND THE ODOT BRIDGE DESIGN MANUAL, 2019 EXCEPT AS NOTED ELSEWHERE IN THE PLANS.

**LOAD MODIFIER FOR OPERATIONAL IMPORTANCE**

OPERATIONAL IMPORTANCE: A LOAD MODIFIER OF 1.00 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL, 2019.

**DESIGN LOADING**

DESIGN LOADING: DESIGN LOADING: HL-93

FUTURE WEARING SURFACE (FWS) OF 0.060 KIPS/SQ.FT.

**DESIGN DATA**

- DESIGN DATA:
- CONCRETE CLASS OQC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)
- CONCRETE CLASS OSCI - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)
- REINFORCING STEEL - ASTM A615 OR A996, GRADE 60, MINIMUM YIELD STRENGTH 60,000 KSI
- STRUCTURAL STEEL - ASTM A709 GRADE 50 - YIELD STRENGTH 50 KSI

**DECK PROTECTION METHOD**

EPOXY COATED REINFORCING STEEL.  
2.5" CONCRETE COVER.  
PARAPETS.

**MONOLITHIC WEARING SURFACE**

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH THICK.

**INSPECTION FOR BATS**

PRIOR TO THE START OF DEMOLITION ACTIVITIES THE CONTRACTOR SHALL INSPECT THE UNDERSIDE OF THE BRIDGE FOR THE PRESENCE OF BATS OR NESTING BIRDS. IF ANY BATS OR BIRD NESTS ARE OBSERVED THE CONTRACTOR SHALL NOTIFY NICOLE HAFER-LIPSTREU IN THE DISTRICT 5 PLANNING DEPARTMENT @ (740) 323-5103 (NICOLE.HAFERLIPSTREU@DOT.OHIO.GOV), OR, BRIAN TATMAN @ (740) 323-5191 (BRIAN.TATMAN@DOT.OHIO.GOV) PRIOR TO STARTING ANY DEMOLITION WORK.

**EXISTING STRUCTURE VERIFICATION**

EXISTING STRUCTURE VERIFICATION: DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

**ITEM 202 STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN**

DESCRIPTION: THIS WORK CONSISTS OF THE REMOVAL OF THE EXISTING STRUCTURE. THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED IN THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING DECK REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED I.E. THE EXISTING STRUCTURE USED FOR MAINTAINING PHASE I TRAFFIC. THE USE OF EXPLOSIVES, HEADACHE BALLS, HOE-RAM TYPE EQUIPMENT, AND TRACK HOE PULVERIZER/Shear/Multi-processor ATTACHMENTS IS PROHIBITED FOR REMOVAL OF THE EXISTING ABUTMENT AND PIER FOOTINGS WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED I.E. EXISTING ABUTMENTS AND PIER FOOTING THAT IS TO REMAIN FOR MAINTAINING PHASE I TRAFFIC. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

PROTECTION OF TRAFFIC: THE CONTRACTOR SHALL SUBMIT PLANS FOR THE PROTECTION OF TRAFFIC (VEHICULAR, PEDESTRIAN, BOAT, ETC.) AS PER CMS 2010 501.05.B.2.

REMOVAL METHODS: THE CONTRACTOR MAY REMOVE THE EXISTING CONCRETE PIER FOOTINGS AND ABUTMENTS AT THE  $\frac{1}{2}$  OF CONSTRUCTION BY CUTTING AND BY MEANS OF APPROVED HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS IN THE AREA DESCRIBED ABOVE. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED.

ALL EXISTING ABUTMENT PILING SHALL BE REMOVED A MINIMUM OF 1 FOOT BELOW THE PROPOSED GROUND SURFACE AS PER CMS 202.03.

ALL EXISTING REINFORCED CONCRETE, REINFORCED CONCRETE BRIDGE DECK, STEEL BEAMS, END DAMS, CROSS FRAMES, BULB ANGLES, SCUPPERS, EXPANSION JOINTS, AND ALL OTHER ITEMS ENCOUNTERED WHILE REMOVING THE EXISTING BRIDGE, UNLESS ITEMIZED SEPARATELY, SHALL BE REMOVED AND INCLUDED PAYMENT FOR UNDER ITEM 202 STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

MEASUREMENT AND PAYMENT: THE DEPARTMENT WILL MEASURE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202 STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

**PILE DRIVING CONSTRAINTS**

PRIOR TO DRIVING ABUTMENT PILES TO THE ULTIMATE BEARING VALUE (UBV), CONSTRUCT THE MSE WALL AND THE BRIDGE APPROACH EMBANKMENT BEHIND THE ABUTMENT UP TO THE BOTTOM OF THE FOOTING FOR A MINIMUM DISTANCE OF 200 FEET BEHIND EACH ABUTMENT. THE CONTRACTOR MAY PRE-DRIVE ABUTMENT PILES BEFORE CONSTRUCTING MSE WALLS. PRE-DRIVING CONSISTS OF INSTALLING THE ABUTMENT PILES INTO THE SOIL ONLY AS FAR AS NECESSARY SO THAT THE PILE WILL REMAIN VERTICAL DURING MSE WALL CONSTRUCTION. IF PRE-DRIVING PILES, INSTALL PILE SLEEVES AROUND PILES BEFORE CONSTRUCTING THE MSE WALL. AT LEAST THREE FEET OF PILE MUST EXTEND ABOVE THE TOP OF THE PILE SLEEVE TO MEET THE REQUIREMENTS OF C&MS 507.09 REGARDING SPLICES. DO NOT DRIVE ABUTMENT PILES TO THE UBV UNTIL AFTER THE ABOVE REQUIRED MSE WALL AND EMBANKMENT HAVE BEEN CONSTRUCTED AND A 20 CALENDAR DAY WAITING PERIOD HAS ELAPSED. THE ENGINEER MAY ADJUST THE LENGTH OF THE WAITING PERIOD BASED ON SETTLEMENT PLATFORM READINGS. AFTER THE SPECIFIED WAITING PERIOD HAS ELAPSED, DRIVE ABUTMENT PILES TO THE UBV. IN ORDER TO REMOVE ANY NEGATIVE SKIN FRICTION THAT HAS DEVELOPED DURING THE WAITING PERIOD, DRIVE EACH ABUTMENT PILE A DISTANCE OF AT LEAST 0.5 INCH.

IF NOT PRE-DRIVING ABUTMENT PILES, INSTALL THE ABUTMENT PILES THROUGH PILE SLEEVES AFTER THE ABOVE REQUIRED MSE WALL AND EMBANKMENT HAVE BEEN CONSTRUCTED AND THE SPECIFIED WAITING PERIOD HAS ELAPSED.

**PILE DESIGN LOADS (ULTIMATE BEARING VALUE)**

THE ULTIMATE BEARING VALUE IS 232 KIPS PER PILE FOR THE ABUTMENT PILES. THE ULTIMATE BEARING VALUE IS 313 KIPS PER PILE FOR THE PIER PILES.

**ABUTMENT PILES:**

60 - 14" CAST-IN-PLACE PILES 50 FEET LONG, ORDER LENGTH 55 FEET  
1 DYNAMIC LOAD TESTING ITEMS

**PIER PILES:**

28 - 16" CAST-IN-PLACE PILES 30 FEET LONG, ORDER LENGTH 35 FEET  
1 DYNAMIC LOAD TESTING ITEMS

**ITEM 507 - 14" CAST-IN-PLACE REINFORCED CONCRETE PILES FURNISHED, AS PER PLAN**

THE MINIMUM STEEL PILE WALL THICKNESS FOR THE REAR AND FORWARD ABUTMENTS PILES SHALL BE 0.344 INCH.

**ITEM 511 CLASS OC2 CONCRETE WITH OC/OA. BRIDGE DECK, AS PER PLAN**

IN ADDITION TO ALL OTHER REQUIREMENTS FOR ITEM 511, ALL VERTICAL HAUNCH BRACKETS DESIGNED TO STAY IN PLACE AFTER CONCRETE IS POURED SHALL BE GALVANIZED. SEE C&MS 711.02 FOR GALVANIZATION REQUIREMENTS.

**WELD ATTACHMENT**

WELD ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE TO AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION". DO NOT WELD ATTACHMENTS TO AREAS DESIGNATED "TENSION". FILLET WELDS TO COMPRESSION FLANGES SHALL BE AT LEAST 1" FROM EDGE OF FLANGE, BE NO MORE THAN 2" LONG, AND BE AT LEAST 1/4" FOR THICKNESSES UP TO 3/4" OR 5/16" FOR GREATER THAN 3/4" THICK.

**STEEL NOTCH TOUGHNESS REQUIREMENT (CHARPY V-NOTCH)**

CVN: WHERE A SHAPE OR PLATE IS DESIGNATED (CVN), FURNISH MATERIAL THAT MEETS THE MINIMUM NOTCH TOUGHNESS REQUIREMENTS AS SPECIFIED IN 711.01

**HIGH STRENGTH BOLTS**

HIGH STRENGTH BOLTS SHALL BE 1 1/8" DIAMETER A325, TYPE 1.

**ABUTMENT DIAPHRAGM CONCRETE**

PLACE THE DIAPHRAGM CONCRETE ENCASING THE STRUCTURAL MEMBER ENDS WITH THE DECK CONCRETE OR AT LEAST 48 HOURS BEFORE PLACEMENT OF THE DECK CONCRETE. IF PLACED SEPARATELY, LOCATE THE HORIZONTAL CONSTRUCTION JOINT BETWEEN THE DIAPHRAGM AND DECK CONCRETE AT THE APPROACH SLAB SEAT.

**DECK SLAB CONCRETE QUANTITY**

DECK SLAB CONCRETE QUANTITY: THE ESTIMATED QUANTITY OF DECK SLAB CONCRETE IS BASED ON THE CONSTANT DECK SLAB THICKNESS, AS SHOWN, PLUS THE QUANTITY OF CONCRETE THAT FORMS EACH BEAM/GIRDER HAUNCH. THE ESTIMATE ASSUMES A CONSTANT HAUNCH THICKNESS OF 2 INCHES OVER THE MIDDLE BEAM SECTIONS, 2.69 INCHES OVER THE REAR BEAM SECTIONS, AND 2.69 INCHES OVER THE FORWARD BEAM SECTIONS. DEVIATE FROM THIS HAUNCH THICKNESS AS NECESSARY TO PLACE THE DECK SURFACE AT THE FINISHED GRADE.

THE HAUNCH THICKNESS WAS MEASURED AT THE CENTERLINE OF THE BEAM, FROM THE SURFACE OF THE DECK TO THE BOTTOM OF THE TOP FLANGE MINUS THE DECK SLAB THICKNESS. THE AREA OF ALL EMBEDDED STEEL PLATES HAS BEEN DEDUCTED FROM THE HAUNCH QUANTITY IN ACCORDANCE WITH 511.24.

**DECK PLACEMENT DESIGN ASSUMPTIONS:**

DECK PLACEMENT DESIGN ASSUMPTIONS: THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 1.66 KIPS FOR A TOTAL MACHINE LOAD OF 13.3 KIPS.

A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103".

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 IN.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65".

**PAINTING OF STRUCTURAL STEEL**

ALL STRUCTURAL STEEL SHALL BE PAINTED IN ACCORDANCE WITH SECTION 514 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE FINISH COAT COLOR SHALL BE BROWN FS-595C-10324 AND MATCH THE LIC-16-1718 BRIDGE, CHERRY VALLEY INTERCHANGE OVERPASS.

**ELASTOMERIC BEARINGS**

ELASTOMERIC BEARINGS: THE ELASTOMER SHALL HAVE A HARDNESS OF 50 DUROMETER. THE BEARINGS WERE DESIGNED IN ACCORDANCE WITH SECTION 14.7.5 (METHOD A) OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS. PERFORM THE LONG-TERM COMPRESSION PROOF LOAD TEST IN ACCORDANCE WITH THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, DIVISION II, SECTION 18.7.2.6 AND 18.7.4.5.

I:\ProjectData\LIC\9241\Design\Structures\0003\Sheets\661\_0003\_SNO01.dgn Bridge Notes 1/29/2020 10:48:48 AM cshonk

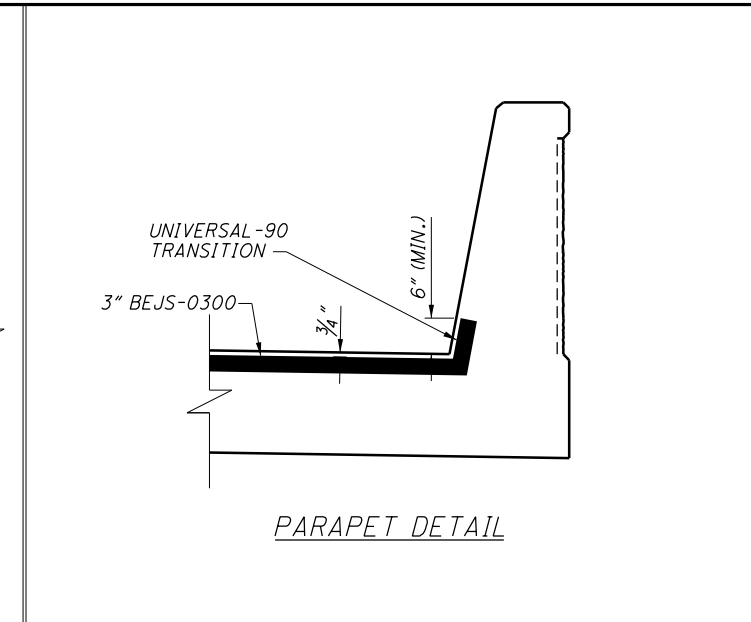
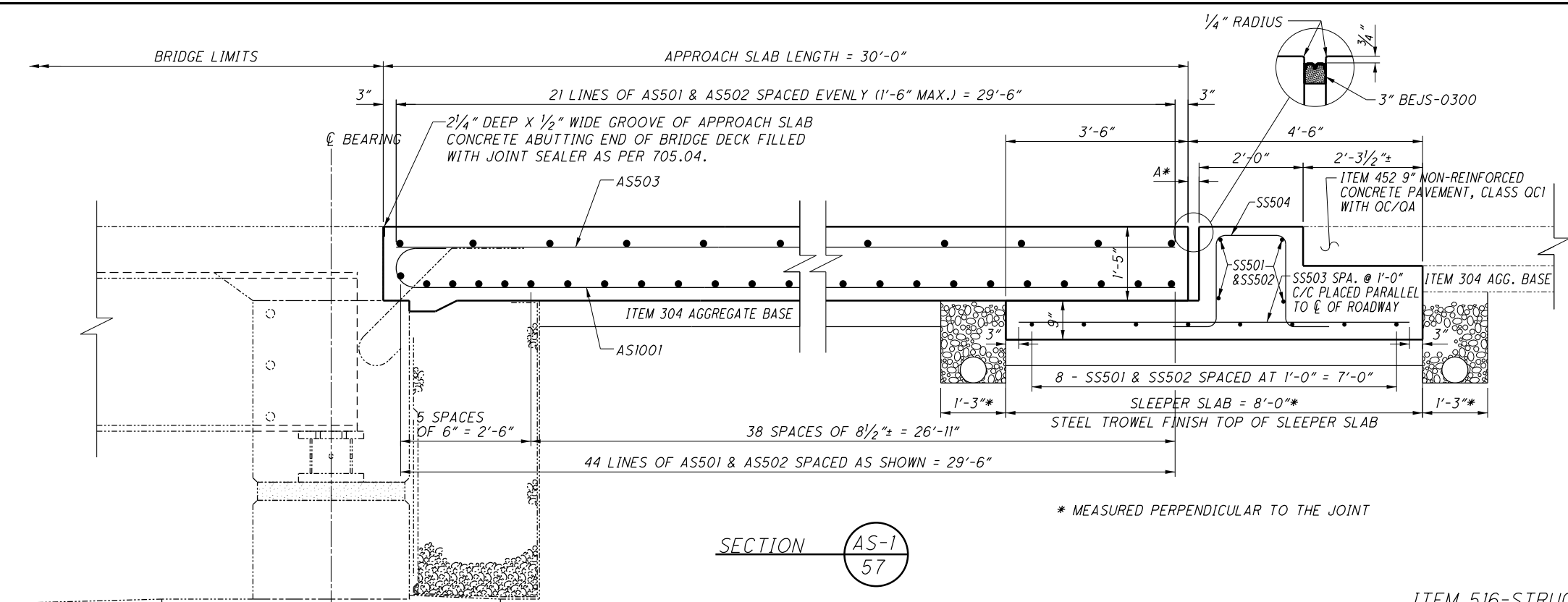
DESIGN AGENCY		OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5	
REVIEWED	DATE	MM/DD/YY	FILE NUMBER
CPS			4506333
DRAWN	CPS	REVISED	
CPS			
DESIGNED	CPS	CHECKED	TAG
<b>BRIDGE NOTES</b>			
BRIDGE NO. LIC-661-0003 OVER S.R. 16			
LIC-37 / 661-16.59 / 0.00		PID No. 92411	
3 / 65		272 341	

I:\ProjectData\LIC\924\Design\Structures\LIC661\_0003\Sheets\661\_0003\_S0001.dgn Bridge Summary 1/29/2020 10:49:59 AM cshonk

SUPER-STRUCTURE	ABUTMENT	PIER	MSE WALL	GENERAL	PART.	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
					01/NHS/B R						
<b>STRUCTURE OVER 20 FOOT SPAN (LIC-661-0003)</b>											
					LS	202	11003	LS		STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	3
				133	133	202	22900	133	SY	APPROACH SLAB REMOVED	
528					528	202	38500	528	FT	BRIDGE RAILING REMOVED	
					LS	503	11100	LS		COFFERDAMS AND EXCAVATION BRACING	
					LS	503	21300	LS		UNCLASSIFIED EXCAVATION	
					LS	505	11100	LS		PILE DRIVING EQUIPMENT MOBILIZATION	
	3,000				3,000	507	00600	3,000	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	3
	3,300				3,300	507	00650	3,300	FT	14" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	3
		840			840	507	00700	840	FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, DRIVEN	3
		980			980	507	00750	980	FT	16" CAST-IN-PLACE REINFORCED CONCRETE PILES, FURNISHED	3
112,621	12,613	23,671			148,905	509	10000	148,905	LB	EPOXY COATED REINFORCING STEEL	55/56
406					406	511	34447	406	CY	CLASS OC2 CONCRETE WITH OC/OA, BRIDGE DECK, AS PER PLAN	3
81					81	511	34463	81	CY	CLASS OC SCC CONCRETE WITH OC/OA, BRIDGE DECK (PARAPET), AS PER PLAN	4
		51			51	511	41012	51	CY	CLASS OC1 CONCRETE WITH OC/OA, PIER ABOVE FOOTINGS	
	70				70	511	45723	70	CY	CLASS OC SCC CONCRETE WITH OC/OA, ABUTMENT, AS PER PLAN (NOT INCLUDING FOOTING)	4
	155	52			207	511	46512	207	CY	CLASS OC1 CONCRETE WITH OC/OA, FOOTING	
401	148	155	665	297	1,666	512	10050	1,666	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	
	101				101	512	33000	101	SY	TYPE 2 WATERPROOFING	
LS					LS	513	10040	LS		STRUCTURAL STEEL MEMBERS, LEVEL 2	
3,984					3,984	513	20000	3,984	EACH	WELDED STUD SHEAR CONNECTORS	
17,361					17,361	514	00060	17,361	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT	
17,361					17,361	514	00066	17,361	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	3
14					14	514	10000	14	EACH	FINAL INSPECTION REPAIR	
18					18	516	13601	18	SF	1" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	4
	55				55	516	13901	55	SF	2" PREFORMED EXPANSION JOINT FILLER, AS PER PLAN	4
	156				156	516	14020	156	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
				140	140	516	14600	140	FT	STRUCTURAL JOINT OR JOINT SEALER, MISC.:EMSEAL WITH SLEEPER SLAB	58
	16				16	516	44300	16	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-6" x 1'-2" x 4.1479")	
		8			8	516	44300	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE) (1'-9" x 1'-8" x 4.1479")	
	92				92	518	21200	92	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	
	1	1			2	523	20000	2	EACH	DYNAMIC LOAD TESTING	
					449	526	30011	449	SY	REINFORCED CONCRETE APPROACH SLABS WITH OC/OA (T=17"), AS PER PLAN	57/59
			2,032		2,032	203	20000	2,032	CY	EMBANKMENT	
			681		681	203	35110	681	CY	GRANULAR MATERIAL, TYPE B	
			238		238	203	35120	238	CY	GRANULAR MATERIAL, TYPE C	
			6,410		6,410	840	20001	6,410	SF	MECHANICALLY STABILIZED EARTH WALL, AS PER PLAN	59-65
			4,242		4,242	840	21000	4,242	CY	WALL EXCAVATION	
			713		713	840	22000	713	SY	FOUNDATION PREPARATION	
			3,941		3,941	840	23000	3,941	CY	SELECT GRANULAR BACKFILL	
			666		666	840	23050	666	CY	NATURAL SOIL	
			894		894	840	25010	894	FT	6" DRAINAGE PIPE, PERFORATED	
			18		18	840	25020	18	FT	6" DRAINAGE PIPE, NON-PERFORATED	
			391		391	840	26001	391	FT	CONCRETE COPING, AS PER PLAN	63
			6,410		6,410	840	26050	6,410	SF	AESTHETIC SURFACE TREATMENT	
			5		5	840	27000	5	DAY	ON-SITE ASSISTANCE	
			LS		LS	840	28000	LS		SGB INSPECTION AND COMPACTION TESTING	
			LS		LS	867	00100	LS		TEMPORARY WIRE FACED MECHANICALLY STABILIZED EARTH WALL	
			LS		LS	878	25000	LS		INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
<b>STRUCTURE OVER 20 FOOT SPAN (LIC-661-0003) ALTERNATES</b>											
				420	420	607	39901	420	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN (ALTERNATE 1)	49
				420	420	SPECIAL	60740000	420	FT	VANDAL PROTECTION FENCE (DECORATIVE) (ALTERNATE 2)	48-54

DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
REVIEWED DATE CPS MM/DD/YY STRUCTURE FILE NUMBER 4506333
DRAIN CPS REVISED
DESIGNED CPS CHECKED TAG
<b>BRIDGE SUMMARY</b> BRIDGE NO. LIC-661-0003 OVER S.R. 16
LIC-37 / 661-16.59 / 0.00 PID No. 92411
6 / 65
275 341

I:\ProjectData\LIC\9241\Design\Structures\Sheets\661\_0003\_SMO01.dgn 2-Approach Slab Details 1/22/2020 11:45:02 AM cshonk



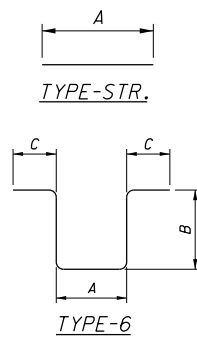
SECTION AS-1  
57

\* MEASURED PERPENDICULAR TO THE JOINT

MARK	NUMBER REQ'D.	LENGTH	WEIGHT	TYPE	DIMENSIONS		
					A	B	C
<b>SLEEPER SLABS (INFORMATIONAL PURPOSES ONLY)</b>							
SS501	24	34'-0"	851	STR.	34'-0"		
SS502	24	38'-2"	955	STR.	38'-2"		
SS503	70	7'-9"	566	STR.	7'-9"		
SS504	70	4'-4"	316	6	1'-5"	1'-9"	0'-10"
SLEEPER SLABS TOTAL			2,688 ##				

## ALL SLEEPER SLAB REINFORCING STEEL TO BE INCLUDED FOR PAYMENT WITH ITEM 516-STRUCTURAL JOINT OR JOINT SEALER, MISC: EMSEAL WITH SLEEPER SLAB

SLEEPER SLAB BENDING DIAGRAMS



ITEM 516-STRUCTURAL JOINT OR JOINT SEALER, MISC: EMSEAL WITH SLEEPER SLAB:

ITEM 516-STRUCTURAL JOINT OR JOINT SEALER, MISC: EMSEAL WITH SLEEPER SLAB: FURNISH MATERIAL CONFORMING TO 705.11. THE SEAL CONFIGURATION SHOULD BE SIMILAR TO THE DETAILS SHOWN HERIN. ACCEPTED MANUFACTURES ARE: EMSEAL JOINT SYSTEMS, LTD. (3" BEJS-0300) OR AN APPROVED EQUIVALENT. INSTALL THE SEAL ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS AND UNDER THE SUPERVISION OF THE MANUFACTURER'S DESIGNATED REPRESENTATIVE. FURNISH SEALS IN ONE CONTINUOUS PIECE UNLESS APPROVED BY THE ENGINEER.

BOND BREAKER: A BOND BREAKER CONSISTING OF TWO 4 FOOT SHEETS OF CLEAR OR OPAQUE POLYETHYLENE FILM, ITEM 705.06, SHALL BE CENTERED ABOVE THE JOINT BETWEEN THE SUBBASE AND THE SLEEPER SLAB. CARE SHALL BE TAKEN IN THE AREA BENEATH THE POLYETHYLENE FILM TO ENSURE THE SURFACE OF THE SUBBASE IS FINISHED SMOOTH AND IS FLUSH WITH OR SLIGHTLY HIGHER THAN THE SURFACE OF THE SLEEPER SLAB. THE FILM SHALL HAVE A NOMINAL THICKNESS OF 4 MILS.

PAYMENT: MEASUREMENT OF THE EXPANSION JOINT FOR PAYMENT PURPOSES SHALL BE ALONG THE CENTERLINE OF THE SLEEPER SLAB AND BETWEEN THE BACKS OF CURB. PAYMENT SHALL BE PER FOOT OF ITEM 516 - STRUCTURAL JOINT OR JOINT SEALER, MISC: JEENE SEAL WITH SLEEPER SLAB AND SHALL INCLUDE 3" BEJS-0300 AS PROVIDED BY EMSEAL, WESTBOROUGH, MASSACHUSETTS (508) 836-0280 OR AN APPROVED EQUAL, CONCRETE SLEEPER SLAB, RESTEEL AND ALL LABOR, MATERIALS AND INCIDENTALS NEEDED TO CONSTRUCT THE JOINT AS SHOWN EXCEPT FOR THE PIPE UNDERDRAIN. THE UNDERDRAINS SHALL BE PAID FOR PER FOOT OF ITEM 605- 6" SHALLOW PIPE UNDERDRAIN, ITEM 707.32 TYPE CP, OR 707.41.

MARK	NUMBER REQ'D.	LENGTH	WEIGHT	TYPE	DIMENSIONS			
					A	B	R	INC.
<b>APPROACH SLABS</b>								
AS501	130	31'-0"	4,203	STR.	31'-0"			
AS502	130	38'-2"	5,175	STR.	38'-2"			
AS503	56	29'-6"	1,723	STR.	29'-6"			
AS1001	252	30'-11"	33,525	19	29'-6"			
APPROACH SLABS TOTAL			44,626					



BENDING DIAGRAMS

NOTE: TYPE "A" WATERPROOFING SHALL NOT EXTEND ABOVE THE BOTTOM OF THE CUT GROOVE IN WHICH THE HOT APPLIED JOINT SEALER IS TO BE PLACED. IT SHALL BE APPLIED TO THE ENTIRE AREA OF THE ABUTMENT OR SUPERSTRUCTURE WHICH COMES INTO CONTACT WITH THE APPROACH SLAB.

NOTE: FOR ADDITIONAL DETAILS SEE STANDARD DRAWING AS-1-15 & AS-2-15.  
NOTE: FOR APPROACH SLAB FINISH ELEVATIONS, SEE SHEET 38/65.

ITEM	DESCRIPTION	QUANT'Y	UNIT
202	** WEARING COURSE REMOVED	134	SQ. YD.
203	** EMBANKMENT	1,603	CU. YD.
204	** SUBGRADE COMPACTION	473	SQ. YD.
304	** AGGREGATE BASE	79	CU. YD.
516	* STRUCTURAL JOINT OR JOINT SEALER, MISC: EMSEAL WITH SLEEPER SLAB	139	FT.
526	* REINFORCED CONCRETE APPROACH SLABS WITH OC/QA (T=17"), AS PER PLAN	449	SQ. YD.

CARRIED TO (\*) BRIDGE SUMMARY or (\*\*) SHEET 5/65

NOTE: ALL QUANTITIES SHOWN ARE FOR REAR AND FORWARD APPROACH SLABS.

DESIGN AGENCY	OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
DATE	MM/DD/YY
REVIEWED	CPS
STRUCTURE FILE NUMBER	4506333
DRAWN	CPS
REVIS	
DESIGNED	CPS
CHECKED	TAG
APPROACH SLAB DETAILS	
BRIDGE NO. LIC-661-0003 OVER S.R. 16	
LIC-37/661-16.59/0.00 PID No. 92411	
58/65	
327 341	