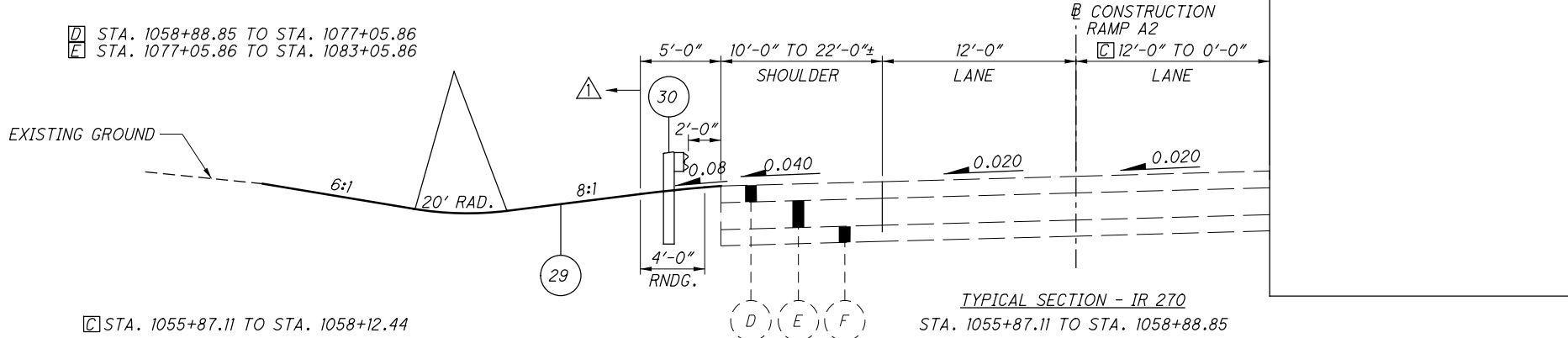
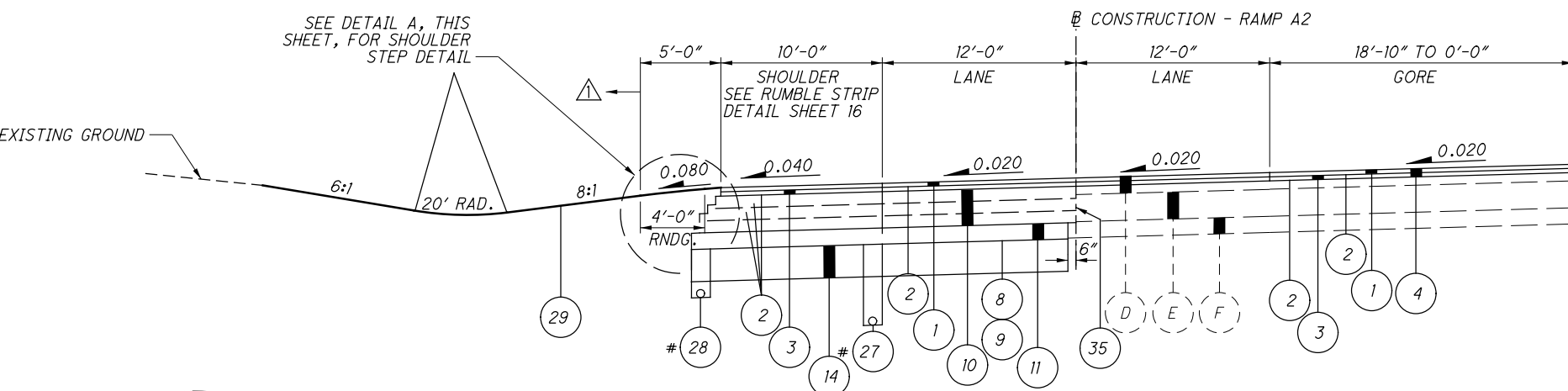


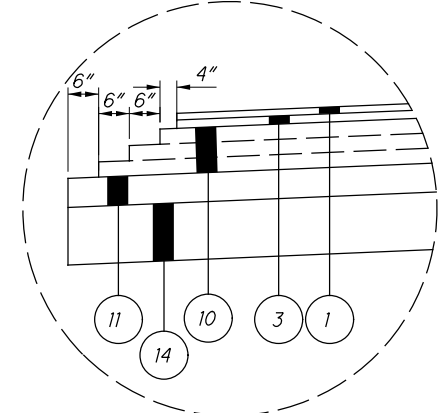
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STA. 1058+88.85 TO STA. 1083+05.86



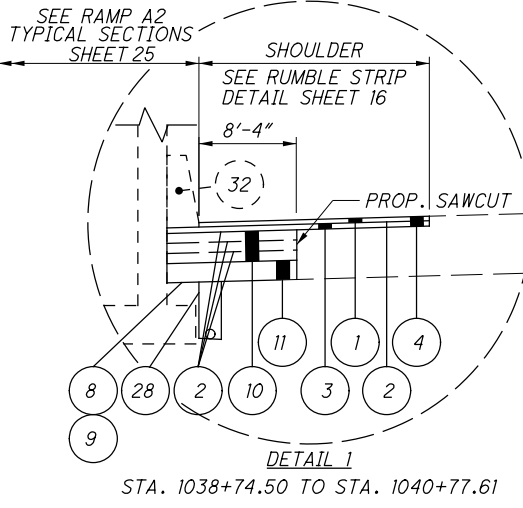
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STA. 1055+87.11 TO STA. 1058+88.85



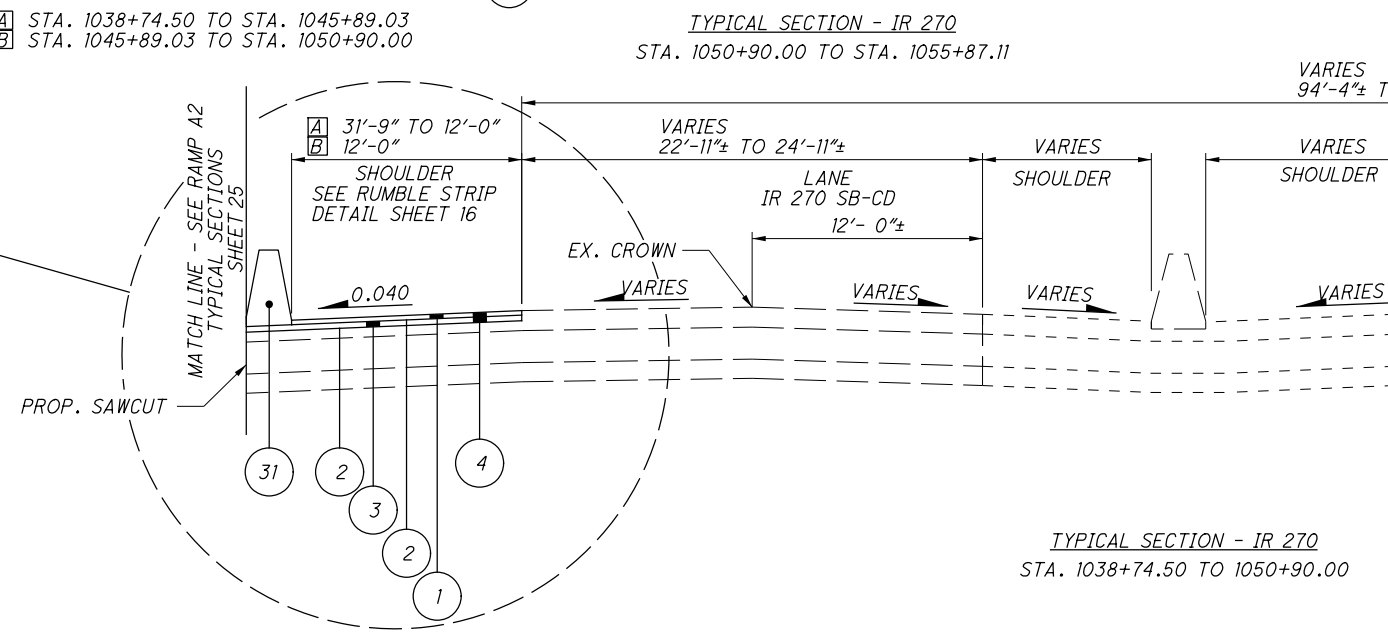
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STA. 1050+90.00 TO STA. 1055+87.11



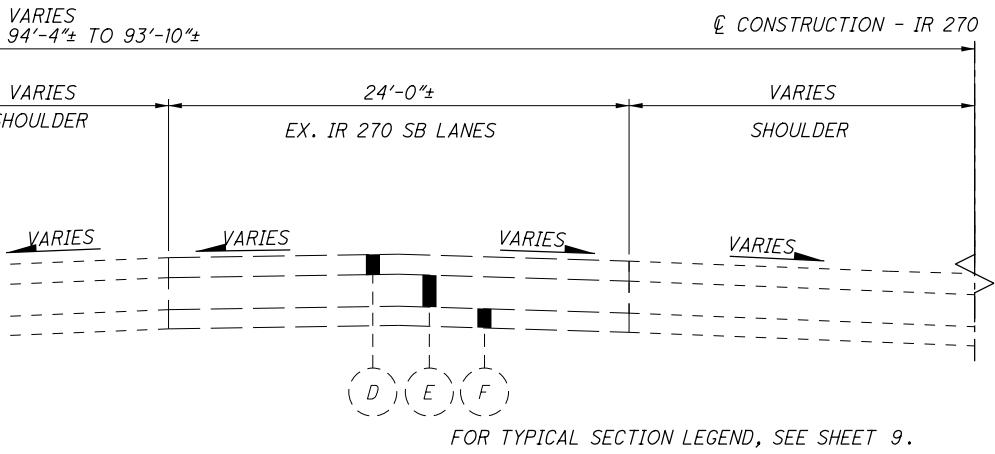
DETAIL A - SHOULDER STEP DETAIL



DETAIL 1  
STA. 1038+74.50 TO STA. 1040+77.61



TYPICAL SECTION - IR 270  
STA. 1038+74.50 TO 1050+90.00



TYPICAL SECTION - IR 270  
STA. 1038+74.50 TO 1050+90.00

FOR TYPICAL SECTION LEGEND, SEE SHEET 9.  
 ▲ FOR GRADING DETAILS SEE CROSS SECTIONS.  
 SEE SHEETS 362 TO 399.  
 # UNDERDRAIN WITHIN LIMITS OF UNDERCUT TO BE PLACED  
 A MINIMUM OF 6" BELOW BOTTOM OF UNDERCUT.

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**ITEM 614 - MAINTAINING TRAFFIC**

CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY ODOT PERSONNEL. THE PROJECT ENGINEER SHALL APPROVE ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR CONDITION AND LOCATION BEFORE THE CONTRACTOR WILL BE ALLOWED TO BEGIN WORK. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, HIS PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED.

ALL SIGNS, BARRACADES, SIGN SUPPORTS, DRUMS, FLAGGERS, WORK ZONE TRAFFIC SIGNALS AND INCIDENTALS FOR TRAFFIC CONTROL SHALL BE FURNISHED, ERECTED, MAINTAINED AND REMOVED BY THE CONTRACTOR IN CONFORMANCE WITH THE MOST RECENT REVISIONS, CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (OMUTCD). ALL SIGNS USED FOR THE MAINTENANCE OF TRAFFIC SHALL BE NEW OR LIKE NEW CONDITION SUBJECT TO THE APPROVAL OF THE ENGINEER. DEVICES USED TO MAINTAIN TRAFFIC SHALL BE REMOVED IMMEDIATELY AFTER THE TERMINATION OF SAID WORK. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC.

FOR WORK WHICH IS CONFINED TO THE SHOULDER, TRAFFIC CONTROL SHALL CONFORM TO FIGURES TA-1, TA-3, TA-4, AND TA-6 OF THE OMUTCD AND SCD MT-95.45. IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS AND PROVISIONS OF THE OMUTCD AND FAILURE RESULTS IN A CONDITION AT THE WORK SITE WHICH IS UNSAFE FOR TRAFFIC, THE ENGINEER HAS THE AUTHORITY TO SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 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 SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC, UNLESS SEPERATELY ITEMIZED IN THE PLAN.

**NOTIFICATION OF CONSTRUCTION INITIATION**

AT LEAST FOURTEEN DAYS PRIOR TO STARTING INITIAL CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADVISE THE DISTRICT OFFICE OF COMMUNICATIONS VIA EMAIL AT D06.PIO@DOT.OHIO.GOV, THE DISTRICT WORK ZONE TRAFFIC MANAGER VIA EMAIL AT D06.MOT@DOT.OHIO.GOV AND THE CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION VIA EMAIL AT HAULING.PERMITS@DOT.OHIO.GOV OF THE ANTICIPATED START DATE OF ANY CONSTRUCTION ACTIVITIES INCLUDING BUT NOT LIMITED TO THE PLACING OF WORK ZONE SIGNS. THE NOTIFICATION SHALL ALSO INCLUDE THE PROJECT NUMBER, PID, NAME AND PHONE NUMBER OF THE CONTRACTOR, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE DISTRICT WORK ZONE TRAFFIC MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE.

**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.

**PRE-MAINTENANCE OF TRAFFIC MEETING**

A PRE-MAINTENANCE OF TRAFFIC MEETING SHALL BE HELD (MINIMUM OF 10 WORK DAYS) PRIOR TO WORK BEGINNING OR ANY CHANGE OF PHASING. THIS MEETING SHALL INCLUDE THE DISTRICT WORK ZONE TRAFFIC MANAGER (d06.mot@dot.ohio.gov) AS WELL AS THE CONTRACTOR AND ANY OF HIS SUB-CONTRACTORS INVOLVED WITH TEMPORARY TRAFFIC CONTROL. FOR COLUMBUS SECTIONS OF ROADWAY, ALSO INCLUDE THE TEMPORARY TRAFFIC CONTROL COORDINATOR (614-645-6269 OR 614-645-5845) FROM THE CITY OF COLUMBUS TRANSPORTATION DIVISION.

**WEEKLY MAINTENANCE OF TRAFFIC MEETING**

AFTER THE INITIAL PRE-MAINTENANCE OF TRAFFIC MEETING, THE CONTRACTOR SHALL MEET WITH THE PROJECT ENGINEER ON A WEEKLY BASIS TO GO OVER A DETAILED MAINTENANCE OF TRAFFIC REPORT OF AT LEAST 7 CALENDAR DAYS. THIS MEETING SHOULD BE HELD ON THE SAME DAY AND TIME OF EACH WEEK.

THE CONTRACTOR WILL PROVIDE TO THE PROJECT ENGINEER A WRITTEN DETAIL OF THE INFORMATION REQUIRED BY THE NOTIFICATION OF TRAFFIC RESTRICTIONS NOTE PRIOR TO THE MEETING.

IN ADDITION TO THE DETAILED MAINTENANCE OF TRAFFIC REPORT THE CONTRACTOR SHALL GIVE A GENERAL LOOK AHEAD OF AN ADDITIONAL 2 WEEKS OF UPCOMING WORK ACTIVITIES. THIS WILL INCLUDE ANY NOTIFICATION REQUIREMENTS FOR RESTRICTIONS THAT HAVE A DURATION GREATER THAN 12 HOURS.

**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 OF CLOSURE SIGN TIME TABLE		
ITEM	DURATION OF CLOSURE	SIGN DISPLAYED TO PUBLIC
RAMP AND ROAD CLOSURES	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 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.

**DUST CONTROL**

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE ENGINEER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616 - WATER 1007 M. GAL.

**ITEM 614 MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)**

NO WORK SHALL BE PERFORMED AND THE SAME NUMBER OF LANES AS WERE AVAILABLE AT THE START OF THE PROJECT SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS FOURTH OF JULY  
NEW YEARS LABOR DAY  
MEMORIAL DAY THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	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)	6:00AM 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 DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

**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 DISTRICT PUBLIC INFORMATION OFFICE (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 CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTIFICATION DUE TO PERMITS AND PIO
RAMP AND ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	> 12 HOURS AND < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<= 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES/RESTRICTIONS	>= 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

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

**DRUM REQUIREMENTS**

IN ADDITION TO THE REQUIREMENTS OF THE PLANS, SPECIFICATION AND PROPOSAL, DRUMS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND UNUSED AT THE TIME OF ARRIVAL ON THE PROJECT. ANY DRUMS BROUGHT ON THE PROJECT, WHICH HAVE PREVIOUSLY BEEN USED ELSEWHERE, WILL NOT BE ACCEPTED. DRUMS SHALL ALSO BE DOUBLE BALLASTED.

PAYMENT FOR DRUMS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR MAINTAINING TRAFFIC UNLESS SEPARATELY ITEMIZED.

**ITEM 614 - REPLACEMENT SIGN**

FLATSHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC.

AN ESTIMATED QUANTITY OF 50 EACH HAS BEEN CARRIED TO THE GENERAL SUMMARY.

**ITEM 614 - REPLACEMENT DRUM**

DRUMS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WHICH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT DRUMS SHALL BE NEW.

PAYMENT FOR THE NEW DRUMS SHALL BE MADE AT THE CONTRACT PRICE PER EACH FOR ITEM 614, REPLACEMENT DRUM, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF THE DAMAGED DRUM, AND PROVIDING AND MAINTAINING THE REPLACEMENT DRUM IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS FOR THE ORIGINAL DRUM.

AN ESTIMATED QUANTITY OF 300 EACH HAS BEEN CARRIED TO THE GENERAL SUMMARY.

**FLOODLIGHTING**

FLOODLIGHTING OF THE WORK SITE FOR OPERATIONS CONDUCTED DURING NIGHTTIME PERIODS SHALL BE ACCOMPLISHED SO THAT THE LIGHTS DO NOT CAUSE GLARE TO THE DRIVERS ON THE ROADWAY. TO ENSURE THE ADEQUACY OF THE FLOODLIGHT PLACEMENT, THE CONTRACTOR AND THE ENGINEER SHALL DRIVE THROUGH THE WORK SITE EACH NIGHT WHEN THE LIGHTING IS IN PLACE AND OPERATIVE PRIOR TO COMMENCING ANY WORK. IF GLARE IS DETECTED, THE LIGHT PLACEMENT AND SHIELDING SHALL BE ADJUSTED TO THE SATISFACTION OF THE ENGINEER BEFORE WORK PROCEEDS.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

**MAINTENANCE OF TRAFFIC FOR MARKING PAVEMENT REPAIRS**

PROVIDE LANE CLOSURES AS PER THE MAINTENANCE OF TRAFFIC NOTES IN THESE PLANS A MINIMUM OF 24 HOURS PRIOR TO PERFORMING PAVEMENT REPAIRS TO ALLOW THE ENGINEER TO IDENTIFY AND MARK THE AREAS OF THE PAVEMENT IN NEED OF REPAIRS.

PAYMENT FOR ALL LABOR, EQUIPMENT, MATERIALS, LEO HOURS, AND INCIDENTALS NEEDED TO PERFORM THE ABOVE LISTED WORK IS CONSIDERED INCIDENTAL TO MAINTAINING TRAFFIC ON THE PROJECT AND WILL BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 MAINTAINING TRAFFIC.

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**DELINEATION OF PORTABLE AND PERMANENT BARRIER**

BARRIER REFLECTORS AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE BARRIER (PB) USED FOR TRAFFIC CONTROL; AND, ON PERMANENT CONCRETE BARRIER (INCLUDING BRIDGE PARAPETS) LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE.

BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THE SPACING SHALL BE AS PER TRAFFIC SCD MT-101.70. OBJECT MARKERS AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614.03 AND SCD MT-101.70. WHEN THE PB CONTAINS GLARE SCREEN, ONE SET OF THREE VERTICAL STRIPES OF SHEETING SHALL BE CONSIDERED EQUIVALENT TO AN OBJECT MARKER, ONE-WAY.

INCREASED BARRIER DELINEATION, AS SPECIFIED HEREIN, SHALL BE INSTALLED ON ALL PB AND PERMANENT CONCRETE BARRIER LOCATED WITHIN 5 FEET OF THE EDGE OF THE TRAVELED LANE UNDER EITHER OF THE FOLLOWING CONDITIONS: ALONG TAPERS AND TRANSITION AREAS; OR ALONG CURVES (OUTSIDE ONLY) WITH DEGREE OF CURVATURE GREATER THAN OR EQUAL TO 3 DEGREES.

THE INCREASED BARRIER DELINEATION SHALL CONSIST OF EITHER DELINEATION PANELS OR THE TRIPLE STACKING OF WORK ZONE BARRIER REFLECTORS.

DELINEATION PANELS SHALL CONSIST OF PANELS OF DELINEATION, APPROXIMATELY 34 INCHES LONG AND 6 INCHES WIDE AND SHALL BE "CRIMPED." PANELS SHALL BE INSTALLED AND SPACED PER TRAFFIC SCD MT101.70.

TRIPLE-STACKED BARRIER REFLECTORS SHALL CONSIST OF ALIGNING THREE BARRIER REFLECTORS VERTICALLY, AT LOCATIONS WHERE A SINGLE BARRIER REFLECTOR WOULD BE OTHERWISE ATTACHED. THERE SHALL BE NO OPEN SPACE BETWEEN THE ADJACENT BARRIER REFLECTORS. THE TRIPLE-STACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT101.70.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 1 (ONE-WAY OR BI-DIRECTIONAL) 2425 EACH  
 ITEM 614, OBJECT MARKER, ONE-WAY 832 EACH  
 ITEM 614, INCREASED BARRIER DELINEATION 41560 FEET

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING EACH OF THE ABOVE ITEMS.

ALONG RUNS OF INCREASED BARRIER DELINEATION WHERE THIS ITEM IS PROVIDED, THE QUANTITY SHALL BE MEASURED AS THE ENTIRE LENGTH OF THE RUN OF INCREASED BARRIER DELINEATION, INCLUDING THE SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.

**DELINEATION OF TEMPORARY AND PERMANENT GUARDRAIL**

BARRIER REFLECTORS SHALL BE INSTALLED ON ALL TEMPORARY GUARDRAIL USED FOR TRAFFIC CONTROL; AND, ON ALL PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. BARRIER REFLECTORS SHALL CONFORM TO C&MS 626 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET.

OBJECT MARKERS SHALL BE INSTALLED ON ALL TEMPORARY AND PERMANENT GUARDRAIL LOCATED WITHIN 5 FEET OF THE EDGE OF THE ADJACENT TRAVEL LANE. GUARDRAIL-MOUNTING OF OBJECT MARKERS SHALL BE MADE BY INSTALLING THE OBJECT MARKERS ON THE EXTENSION BLOCKS RATHER THAN DIRECTLY ONTO THE GUARDRAIL ITSELF. OBJECT MARKERS SHALL CONFORM TO C&MS 614.03 AND THE SPACING SHALL BE APPROXIMATELY 50 FEET WITH A 25 FOOT OFFSET FROM THE BARRIER REFLECTORS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY:

ITEM 614, BARRIER REFLECTOR, TYPE 2, ONE-WAY 497 EACH  
 ITEM 614, OBJECT MARKER, ONE-WAY 497 EACH

PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIAL, LABOR, INCIDENTALS AND EQUIPMENT NECESSARY FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING THE ABOVE ITEMS.

**ITEM 614 - WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN**

WORK ZONE RAISED PAVEMENT MARKERS, AS PER PLAN, AND THEIR INSTALLATION SHALL CONFORM TO C&MS 614 OR C&MS 621 AS SPECIFIED HEREIN.

- RAISED PAVEMENT MARKERS IN USE DURING THE SNOW-PLOWING SEASON SHALL CONFORM TO 621.  
 - RAISED PAVEMENT MARKERS IN USE DURING THE NON-SNOW-PLOW SEASON SHALL CONFORM TO EITHER 614 OR TO 621.

THE SNOW-PLOWING SEASON SHALL RUN FROM OCTOBER 15 THROUGH APRIL 1.

IF PROJECT DELAYS, NOT THE FAULT OF ODOT, CAUSE THE WORK TO EXTEND INTO THE SNOW-PLOWING SEASON, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING WORK ZONE RAISED PAVEMENT MARKERS (WZRPMS) CONFORMING TO C&MS 614, WITH RAISED PAVEMENT MARKERS CONFORMING TO 621, AS DETERMINED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

THIS ITEM SHALL INCLUDE PURCHASE, INSTALLATION AND REMOVAL OF ITEM 614 WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN, INCLUDING FILLING OF ANY DEPRESSIONS CREATED IN THE PAVEMENT AS PER C&MS 621.08.

RESURFACING OF THE TRANSITION AREAS SHALL BE PERFORMED AT THE TIME THAT THE SURFACE COURSE IS BEING APPLIED TO THE ENTIRE PROJECT. PRIOR TO APPLICATION OF THE SURFACE COURSE ON THE PROJECT, THE EXISTING PAVEMENT WITHIN THE TRANSITION AREA SHALL BE REMOVED TO A DEPTH NECESSARY TO REACH THE LEVEL OF THE INTERMEDIATE COURSE OF THE PAVEMENT, AS DETERMINED BY THE ENGINEER.

AN ESTIMATED QUANTITY HAS BEEN PROVIDED IN THE MAINTENANCE OF TRAFFIC SUBSUMMARY.

**ITEM 614 - WORK ZONE PAVEMENT MARKING MISC.: DOTTED LINE, CLASS 1, 12", 807 PAINT**

IN ADDITION TO THE REQUIREMENT OF ITEM 614 THE PAVEMENT MARKINGS SHALL BE PER ODOT ITEM 807 PAINT.

PAYMENT FOR THIS ITEM SHALL BE AT THE CONTRACT UNIT PRICE BID PER FT, INSTALLED AND MAINTAINED.

**LANE VALUE CONTRACT TABLE**

THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE AS DESIGNATED IN THE LANE VALUE CONTRACT TABLE FOR EACH UNIT OF TIME A LANE/SHOULDER/RAMP IS CLOSED BY THE CONTRACTOR'S ACTION WHILE NOT OTHERWISE PERMITTED BY THE LANE VALUE CONTRACT TABLE.

LANE VALUE CONTRACT TABLE						
Section (SLM)	Existing Number of Lanes per Direction	Lane closures are NOT permitted:				Disincentive Amounts per minute per lane
		Lane Reduction	Mon to Fri	Sat	Sun	
FRA-70						
College Avenue (18.67) to Hamilton Road (21.33)	3	3 to 2	5AM-7PM	No Restriction	No Restriction	\$305
		3 to 1	5AM-10PM	8AM-11PM	8AM-11PM	\$305
Hamilton Road (21.33) to I-270 (East) (22.34)	3	3 to 2	5AM-7PM	3PM-6PM	3PM-6PM	\$335
		3 to 1	5AM-10PM	6AM-9PM	6AM-9PM	\$335
I-270 (East side) (22.34 to 23.17)	2	2 to 1	5AM-11PM	6AM-10PM	6AM-10PM	\$380
I-270 (East) (23.17) to Brice Road (24.27)	3	3 to 2	5AM-8PM	10AM-7PM	10AM-7PM	\$460
		3 to 1	5AM-12M	7AM-11PM	7AM-11PM	\$460
Brice Road (24.27) to Fairfield County line(24.94)	3	3 to 2	5AM-7PM	7AM-7PM	7AM-7PM	\$370
		3 to 1	5AM-10PM	6AM-11PM	6AM-11PM	\$370
FAI-70						
Franklin County line (0.00) to SR-256 (1.19)	3	3 to 2	5AM-7PM	7AM-7PM	7AM-7PM	\$370
		3 to 1	5AM-10PM	6AM-11PM	6AM-11PM	\$370
Short term shoulder closures are permitted any time except 5AM-9AM and 3PM-6PM Monday-Friday.						

LANE VALUE CONTRACT TABLE						
Section (SLM)	Existing Number of Lanes per Direction	Lane closures are NOT permitted:				Disincentive Amounts per minute per lane
		Lane Reduction	Mon to Fri	Sat	Sun	
FRA-270						
SR 317 (37.36) to US 40 (40.90)	4	4 to 3	5AM-9AM & 3PM-7PM	No Restriction	No Restriction	\$290
		4 to 2	5AM-8PM	7AM-9AM & 2PM-7PM	7AM-9AM & 2PM-7PM	\$290
		4 to 1	5AM-11PM	6AM-10PM	6AM-10PM	\$290
US 40 (40.90) to Livingston Avenue (42.13) Main line	2	2 to 1	5AM-8PM	6AM-7PM	6AM-7PM	\$220
US 40 (40.90) to Livingston Avenue (42.13) Collector Distributor	4	4 to 3	5AM-9AM & 3PM-7PM	No Restriction	No Restriction	\$185
		4 to 2	5AM-8PM	7AM-9AM & 2PM-7PM	7AM-9AM & 2PM-7PM	\$185
		4 to 1	5AM-11PM	6AM-10PM	6AM-10PM	\$185
Livingston Avenue (42.13) to Noe Bixby Road (43.65) Main line	2	2 to 1	5AM-8PM	6AM-7PM	6AM-7PM	\$250
Livingston Avenue (42.13) to Noe Bixby Road (43.65) Collector Distributor	2	2 to 1	5AM-11PM	6AM-10PM	6AM-10PM	\$250
Noe Bixby Road (43.65) to north of Winchester Pike (45.49)	3	3 to 2	3PM-6PM	No Restriction	No Restriction	\$190
		3 to 1	5AM-8PM	6AM-7PM	6AM-7PM	\$190
Short term shoulder closures are not permitted 5AM-9AM and 3PM-7PM Monday-Friday.						

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ITEM	EXTENSION	TOTAL FROM SHEET					TOTAL	UNIT	DESCRIPTION	SEE SHEET
		55	56	57	58	59				
202	35100			68			68	FT	PIPE REMOVED, 24" AND UNDER	
611	04400			68			68	FT	12" CONDUIT, TYPE B	
614	11000						LS		MAINTAINING TRAFFIC	46
614	11110						1000	HOURL	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	50
614	11630						41560	FT	INCREASED BARRIER DELINEATION	47
614	12380						33	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	51
614	12420						LS		DETOUR SIGNING	
614	12484						42	EACH	WORK ZONE INCREASED PENALTIES SIGN	50
614	12500						50	EACH	REPLACEMENT SIGN	46
614	12600						300	EACH	REPLACEMENT DRUM	46
614	12801						2487	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	47
614	13310						2425	EACH	BARRIER REFLECTOR, TYPE 1, ONE-WAY	47
614	13312						497	EACH	BARRIER REFLECTOR, TYPE 2, ONE-WAY	47
614	13350						1329	EACH	OBJECT MARKER, ONE WAY	47
614	18601						2	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	49
614	20056	0.43	1.93	2.82	4.77	4.77	14.72	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
614	21050	0.81					0.81	MILE	WORK ZONE CENTER LINE, CLASS I, 807 PAINT, DOUBLE SOLID	
614	22056	1.81	3.88	2.10	3.82	3.76	15.37	MILE	WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, WHITE	
614	22056	1.08	3.98	1.88	3.96	3.19	14.09	MILE	WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, YELLOW	
614	23110	4898	16160	8727	9886	6846	46517	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
614	24102	907			2290	12110	15307	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	
614	25200	397	294	399	126		1216	FT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT	
614	98000				0.05	3.10	3.15	MILE	WORK ZONE PAVEMENT MARKING, MISC.: LANE LINE, CLASS I, 5" 642 PAINT	48
614	98000	0.94			0.09		1.03	MILE	WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5", 642 PAINT, WHITE	48
614	98000	0.02					0.02	MILE	WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5", 740.06, TYPE I, YELLOW	48
614	98100				394		394	FT	WORK ZONE PAVEMENT MARKING, MISC.: CHANNELIZING LINE, CLASS I, 10" PAINT	48
614	98100	69					69	FT	WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, 5", 740.06, TYPE I	48
614	98100	1659	1703	977	1308		5647	FT	WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, CLASS I, 12" 807 PAINT	47
614	98100	12					12	FT	WORK ZONE PAVEMENT MARKING, MISC.: STOP LINE, 20", 642 PAINT	48
615	10000						LS		ROADS FOR MAINTAINING TRAFFIC	47
615	25000						10106	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS B	
616	10000						1007	MGAL	WATER	
622	41050						2	EACH	PORTABLE BARRIER, "Y" CONNECTOR	
622	41100	4050	8900	8640	14490	5480	41560	FT	PORTABLE BARRIER, UNANCHORED	
808	18700						120	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	49
TOTALS CARRIED TO GENERAL SUMMARY, SHEET 210										

CALCULATED  
BPT  
CHECKED  
EMW

MAINTENANCE OF TRAFFIC SUBSUMMARY

FRA - 70 - 22.61

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REF NO.	SHEET NO.		LOCATION	STATION TO STATION		614	614	614	614	614	614	614	614	614	614	614	614	614	622				
				TO	TO	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	WORK ZONE CENTER LINE, CLASS I, 807 PAINT, DOUBLE SOLID	WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, WHITE	WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, YELLOW	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, CLASS I, 12" 807 PAINT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT	WORK ZONE PAVEMENT MARKING, MISC.: LANE LINE, CLASS I, 5" 642 PAINT	WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5", 740.06, TYPE I, YELLOW	WORK ZONE PAVEMENT MARKING, MISC.: CHANNELIZING LINE, CLASS I, 10" PAINT	WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, 5", 740.06, TYPE I	WORK ZONE PAVEMENT MARKING, MISC.: STOP LINE, 20", 642 PAINT	PORTABLE BARRIER, UNANCHORED				
	TO					MILE	MILE	MILE	MILE	FT	FT	FT	FT	MILE	MILE	MILE	FT	FT	FT	FT			
PHASE 1																							
ELW-1	68	TO	81	RAMP	2055+25.00	TO	1083+09.00																
PB-1	70	TO	70	RAMP	100+31.00	TO	103+31.00															320	
ELW-2	70	TO	72	RAMP	1016+93.00	TO	104+31.00				0.18												
PB-1	70	TO	70	IR-70	531+49.00	TO	534+89.00															340	
CH-1	72	TO	73	IR-270	1028+17.00	TO	1039+89.00						1156										
ELY-1	73	TO	75	IR-270	1031+17.00	TO	1069+97.00					0.73											
ELW-3	73	TO	73	IR-270	1031+17.00	TO	1035+92.00				0.09												
CH-2	73	TO	74	IR-270	1035+92.00	TO	1046+00.00						990										
CV-1	73	TO	73	IR-270	1035+92.00	TO	1043+09.00							397									
CH-3	73	TO	73	IR-270	1035+94.00	TO	1043+09.00						704										
ELY-2	73	TO	81	RAMP	1035+94.00	TO	2039+08.00				0.35												
PB-3	73	TO	81	RAMP	2035+10.00	TO	1059+29.00															3390	
LL-1	73	TO	75	IR-270	1039+89.00	TO	1062+75.00	0.43															
DL-1	74	TO	75	IR-270	1046+00.00	TO	1062+75.00							1659									
CH-4	75	TO	76	IR-270	1062+75.00	TO	1073+98.00						1024										
CH-5	75	TO	76	IR-270	1062+75.00	TO	1073+98.00						1024										
DL6-1	76	TO	77	IR-270	1077+05.00	TO	1086+12.00							907									
ELW-4	82	TO	83	SCARBOROUGH BLVD	30+29.07	TO	36+00.00										0.12						
CL-1	82	TO	87	SCARBOROUGH BLVD	30+29.07	TO	55+67.00				0.49												
ELW-5	82	TO	87	SCARBOROUGH BLVD	30+29.07	TO	55+67.00										0.49						
DL6-1	87	TO	87	SCARBOROUGH BLVD	55+67.00	TO	56+33.00															69	
ELY-3	87	TO	87	SCARBOROUGH BLVD	56+33.00	TO	57+12.00										0.02						
PHASE 1A																							
ELW-6	90	TO	91	SCARBOROUGH BLVD	29+68.00	TO	37+00.00										0.14						
CL-2	90	TO	93	SCARBOROUGH BLVD	29+68.00	TO					0.32												
ELW-7	91	TO	93	SCARBOROUGH BLVD	39+36.00	TO	47+70.00										0.16						
SL-1	93	TO	93	SCARBOROUGH BLVD	46+44.00	TO	46+44.00															12	
ELW-8	93	TO	93	SCARBOROUGH BLVD	55+59.00	TO	56+66.00										0.03						
TOTALS CARRIED TO SUMMARY SHEET						54		0.43	0.81	1.81	1.08	4898	907	1659	397		0.94	0.02		69	12	4050	

<p><b>MAINTENANCE OF TRAFFIC PHASE 1 SUBSUMMARY</b></p>	<p>55 1199</p>
<p>CALCULATED BY: BPT CHECKED BY: EMW</p>	



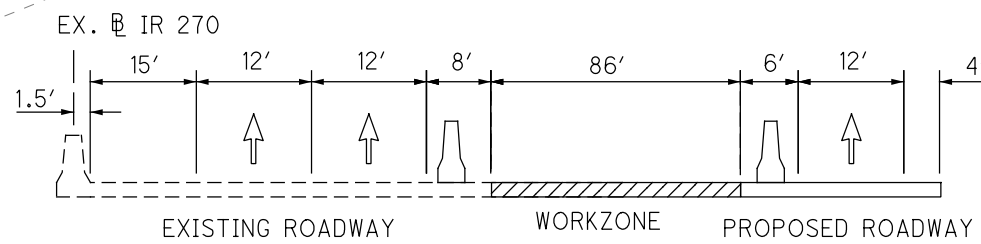
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REF NO.	SHEET NO.			LOCATION	STATION TO STATION		614	614	614	614	614	614	614	614	614	614	614	614	622			
							WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	WORK ZONE CENTER LINE, CLASS I, 807 PAINT, DOUBLE SOLID	WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, WHITE	WORK ZONE, EDGE LINE, CLASS I, 6", 807 PAINT, YELLOW	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, CLASS I, 12" 807 PAINT	WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I, 642 PAINT	WORK ZONE PAVEMENT MARKING, MISC.: LANE LINE, CLASS I, 5" 642 PAINT	WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5", 740.06, TYPE I, YELLOW 642 PAINT, WHITE	WORK ZONE PAVEMENT MARKING, MISC.: EDGE LINE, CLASS I, 5", 740.06, TYPE I, YELLOW	WORK ZONE PAVEMENT MARKING, MISC.: CHANNELIZING LINE, CLASS I, 10" PAINT	WORK ZONE PAVEMENT MARKING, MISC.: DOTTED LINE, 5", 740.06, TYPE I	WORK ZONE PAVEMENT MARKING, MISC.: STOP LINE, 20", 642 PAINT	PORTABLE BARRIER, UNANCHORED	
PHASE 4																						
MILE	MILE	MILE	MILE	FT	FT	FT	FT	FT	FT	MILE	MILE	MILE	FT	FT	FT	FT	FT	FT				
ELY-1	159	TO	171	IR-70	494+20.00	TO	644+05.00															
CH-1	159	TO	160	IR-70	491+24.00	TO	505+97.00															
CH-2	159	TO	160	IR-70	497+20.00	TO	501+99.00															
CH-3	159	TO	160	IR-70	497+20.00	TO	499+89.00															
CV-1	159	TO	160	IR-70	497+20.00	TO	500+99.00															
LL-1	160	TO	170	IR-70	505+97.00	TO	638+15.00	2.53														
ELW-1	160	TO	163	IR-70	501+99.00	TO	539+37.00															
PB-1	160	TO	161	IR-70	501+90.00	TO	522+29.00															
PB-2	160	TO	160	IR-70	501+90.00	TO	505+58.00														2040	
																					390	
PB-3	162	TO	162	IR-70	531+59.00	TO	534+88.00														320	
ELY-2	162	TO	174	RAMP	1016+93.00	TO	532+00.00															
PB-4	162	TO	162	RAMP	527+93.00	TO	531+02.00														320	
LL-2	162	TO	176	RAMP A2	3011+50.00	TO	3033+20.00	0.4														
CH-4	163	TO	164	IR-70	539+37.00	TO	549+36.00															
CH-5	163	TO	164	RAMP	539+37.00	TO	549+36.00															
ELW-2	163	TO	164	RAMP	539+37.00	TO	557+52.00															
LL-3	163	TO	176	RAMP C1	3011+50.00	TO	6033+97.00	0.15														
DL6-1	163	TO	164	RAMP C1	6033+97.00	TO	6039+98.00															
ELW-3	163	TO	180	RAMP C1	6033+97.00	TO	8+31.00															
LL-4	164	TO	170	IR-70	549+36.00	TO	638+15.00	1.69														
CH-6	164	TO	165	IR-70	557+52.00	TO	569+34.00															
CH-7	164	TO	165	RAMP A2	557+52.00	TO	569+34.00															
DL6-2	164	TO	165	RAMP A2	557+52.00	TO	564+77.00															
ELW-4	164	TO	180	RAMP A2	3041+72.00	TO	8599+00.00															
ELY-3	164	TO	180	RAMP C2	3048+17.00	TO	8+58.00															
DL-1	165	TO	166	IR-70	569+34.00	TO	582+92.00															
PB-5	165	TO	180	IR-70	570+92.00	TO	8598+19.00															
PB-6	165	TO	180	RAMP C1	6059+55.00	TO	11+96.00															
CH-8	166	TO	167	RAMP G1	582+92.00	TO	590+51.00															
CH-9	166	TO	167	RAMP G1	582+92.00	TO	590+51.00															
ELW-5	167	TO	167	IR-70	590+51.00	TO	597+89.00															
ELY-4	167	TO	180	RAMP G1	590+51.00	TO	8599+65.00															
CH-10	167	TO	167	IR-70	597+89.00	TO	600+14.00															
CH-11	167	TO	167	RAMP G2	597+89.00	TO	600+14.00															
DL6-3	167	TO	168	IR-70	600+14.00	TO	506+74.00															
ELY-5	167	TO	180	RAMP G2	1107+76.00	TO	1113+84.00															
ELW-6	167	TO	180	RAMP G2	1107+76.00	TO	648+05.00															
PB-7	167	TO	180	RAMP G2	1106+16.00	TO	612+84.00															
PB-8	168	TO	169	IR-70	612+74.00	TO	619+34.00															
PB-9	169	TO	171	IR-70	620+74.00	TO	641+05.00															
CH-12	170	TO	171	IR-70	638+15.00	TO	648+05.00															
CH-13	170	TO	171	IR-70	638+15.00	TO	648+05.00															
PB-11	174	TO	174	IR-270 SB	1013+74.00	TO	1017+56.00															
PB-10	179	TO	180	BRICE RD	10+04.00	TO	14+63.00															
ELW-7	179	TO	180	BRICE RD	9+28.00	TO	13+85.00															
LL-5	179	TO	180	BRICE RD	13+13.00	TO	10+53.00															
CH-14	180	TO	180	BRICE RD	6+96.00	TO	9+28.00															
CH-15	180	TO	180	BRICE RD	6+96.00	TO	8+58.00															
TOTALS CARRIED TO SUMMARY SHEET							54	4.77		3.82	3.96	9886	2290	1308	126	0.05	0.09		232	162	394	14490

CALCULATED	BPT
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EMW	
<b>MAINTENANCE OF TRAFFIC PHASE 4 SUBSUMMARY</b>	
<b>FRA-70-22.61</b>	
58	
1199	



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NOTES:  
 1. FOR MAINTENANCE OF TRAFFIC LEGEND SEE SHEET 66 .

CALCULATED  
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 EMW

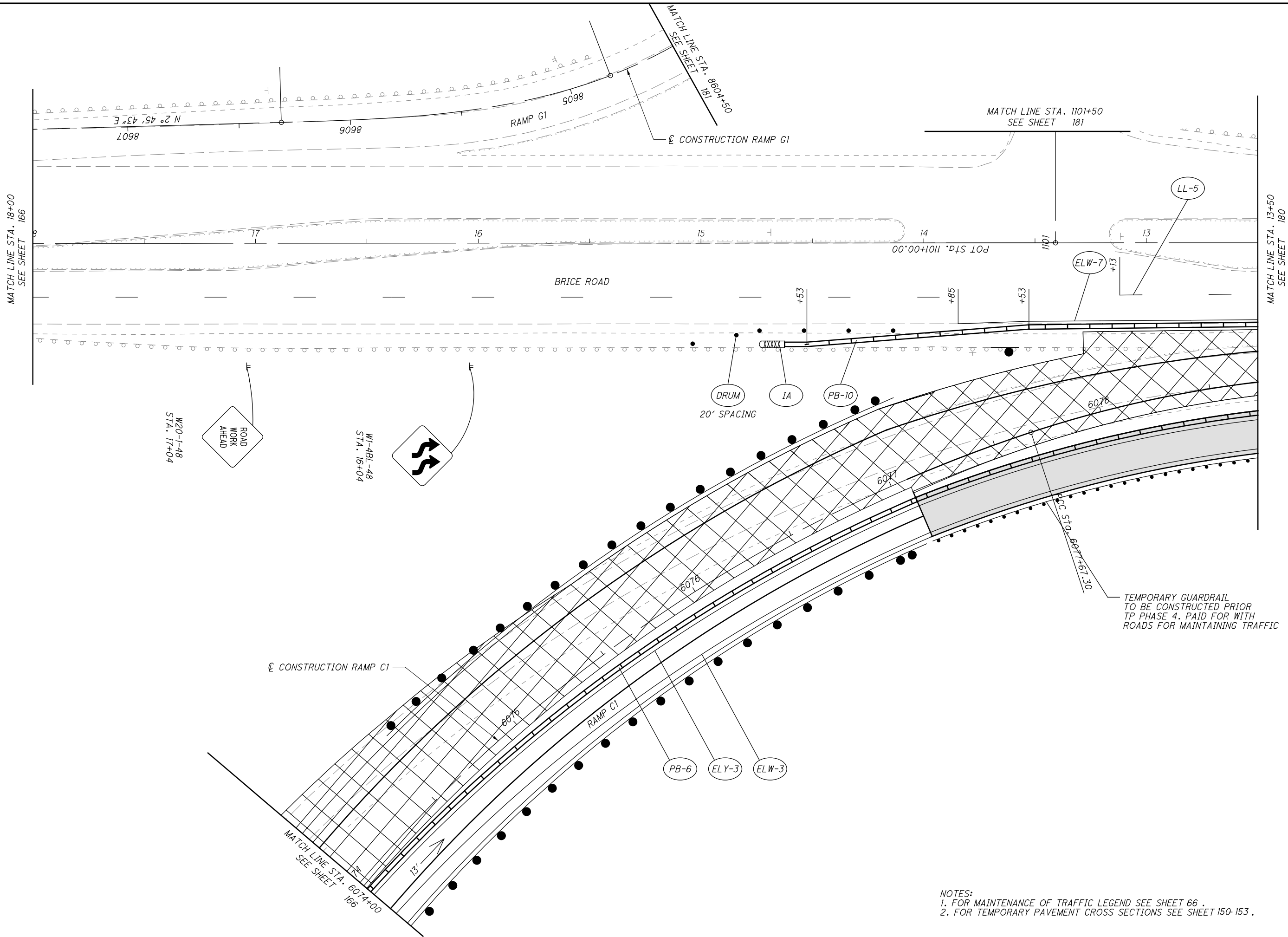
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**MAINTENANCE OF TRAFFIC PLAN - PHASE 2**  
**STA. 1031+00 TO STA. 1044+00**

**FRA-70-22.61**



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NOTES:  
 1. FOR MAINTENANCE OF TRAFFIC LEGEND SEE SHEET 66.  
 2. FOR TEMPORARY PAVEMENT CROSS SECTIONS SEE SHEET 150-153.



CALCULATED	BPT
CHECKED	EMW

**MAINTENANCE OF TRAFFIC PLAN - PHASE 4**  
**STA. 18+00 TO STA. 13+50**

**FRA-70-22.61**

179  
1199







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STATION TO STATION		SIDE	LENGTH L (FT)	AVERAGE WIDTH W (FT)	SURFACE AREA A = LxW (SF)	CADD MEASURED AREAS (SF)	202	204	204	254	255	301	304	407	407	442	442	442	
							PAVEMENT REMOVED SY	SUBGRADE COMPACTION SY	PROOF ROLLING HOUR	PAVEMENT PLANING, ASPHALT CONCRETE SY	FULL DEPTH PAVEMENT SAWING, AS PER PLAN FT	ASPHALT CONCRETE BASE, PG64-22 CY	AGGREGATE BASE CY	NON-TRACKING TACK COAT GAL	NON-TRACKING TACK COAT GAL	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446) CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN CY	ANTI-SEGREGATION EQUIPMENT CY	
FROM	TO																		
IR 270																			
979+14.42	981+39.00	RT	224.58	0.50	112				12	225				1		1	1		
				8.40	1886						79			50		10	9		
				2.98	669						12								
				11.88	2668	1742	194	296.4	0				49						
981+39.00	982+39.00	RT	100.00	0.50	50				6	106				1		0	0		
				6.50	650														7
				15.00	1500						63			40		8	7		
				2.98	298						6								
				18.48	1848	995	111	205.3	0				34						
982+39.00	987+81.18	RT	542.18	6.00	3253				361	542				22	33	18	15		
				12.00	6506														65
				14.00	7591						181			202		41	35		
				2.00	1084								20						
						2843	316	120.5	0										
987+81.18	990+45.51	RT	264.33	6.00	1586				176	264				11	16	9	7		
				14.00	3701														37
				16.03	4237						110			56		23	20		
				4.03	1065								20						
						1438	160	118.4	0										
990+45.51	995+26.44	RT	480.93	7.62	3665				407	482				24	37	20	17		
				28.00	13466														135
				29.34	14110						468			188		76	65		
				17.34	8339								154						
						1016	113	926.6	0										
978+28.25	980+00.00	RT	171.75	11.26	1934								36						
980+00.00	995+26.44	RT	1526.44	10.00	15264								283						
1013+16.39	1018+93.81	LT	577.42			8039				893	256			54	80	43	37		
						3104	345												
1035+93.00	1038+74.50	LT	281.50	12.00	3378					375	282			23	34	18	16		
							7074	786											
1038+74.50	1040+77.61	LT	203.11							361	218			22	33	18	15		
				1.67	339							14	6	7		2			
				8.33	1693							71	31	45		9	8		
1040+77.61	1050+90.00	LT	1012.39	13.00	13161					1462	1012			88	132	71	61		
				2.70	2731										27	15			
1050+90.00	1055+87.11	LT	497.11	12.00	5965						528	249	110	159		32	28		
				10.00	4971									33		27	23		
				10.33	5137							71		34					
				10.83	5385							75		36					
				11.33	5634							78		38					
				11.83	5882			653.6	0				109						
						11737				1304				78	117	63	54		
				24.00	11931														120
						6057	673												
<b>TOTALS CARRIED TO SUBSUMMARY SHEET 223</b>							2885	5120	2	5359	3914	1475	853	1720		504	417	364	

CALCULATED TJS CHECKED CO	<b>PAVEMENT SUBSUMMARY - IR 270</b>	<b>FRA - 70 - 22.61</b>	222 1199
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STATION TO STATION		SIDE	LENGTH L (FT)	AVERAGE WIDTH W (FT)	SURFACE AREA A=LxW (SF)	CADD MEASURED AREAS (SF)	202	204	204	254	255	301	304	407	407	442	442	442
							PAVEMENT REMOVED SY	SUBGRADE COMPACTION SY	PROOF ROLLING HOUR	PAVEMENT PLANING, ASPHALT CONCRETE SY	FULL DEPTH PAVEMENT SAWING, AS PER PLAN FT	ASPHALT CONCRETE BASE, PG64-22 CY	AGGREGATE BASE CY	NON-TRACKING TACK COAT GAL	NON-TRACKING TACK COAT GAL	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446) CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN CY	ANTI-SEGREGATION EQUIPMENT CY
FROM	TO																	
IR 270 (CONTINUED)																		
985+10.35	989+89.65	LT/RT				1779 2242 3192 3462 3998	198			249			64	15 21	22	12 17	10 15	
1028+16.18	1030+57.75	RT	241.57 241.57	24.50 29.20	5918 7054	6372	708	783.8	0	568	294	131	188			38	27	
1029+47.30	1032+24.05	LT	276.75 276.75	21.30 25.60	5895 7085	6447	716	787.2	0	643	295	131	189			38	27	
1054+53.66	1056+45.55	LT	191.89 191.89	5.30 8.00	1017 1535	1096	122	170.6	0	392	64	28	41			8	5	
<b>SUBTOTALS THIS SHEET</b>							1744	2185.8	1	249	1603	653	354	477		114	85	0
<b>TOTALS CARRIED FROM SUBSUMMARY SHEET 222</b>							2885	5120	2	5359	3914	1475	853	1720		504	417	364
<b>TOTALS CARRIED TO SUBSUMMARY SHEET 234</b>							4629	7306.1	4	5609	5518	2129	1208	2197		618	502	364

CALCULATED TJS CHECKED CO
<b>PAVEMENT SUBSUMMARY - IR 270</b>
<b>FRA - 70 - 22.61</b>
223 1199



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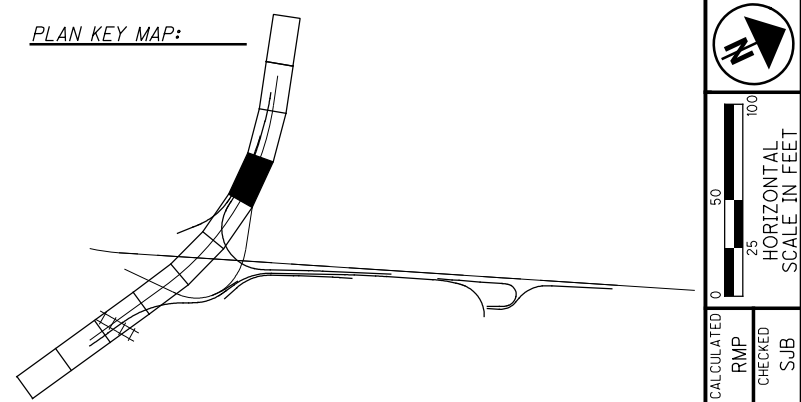
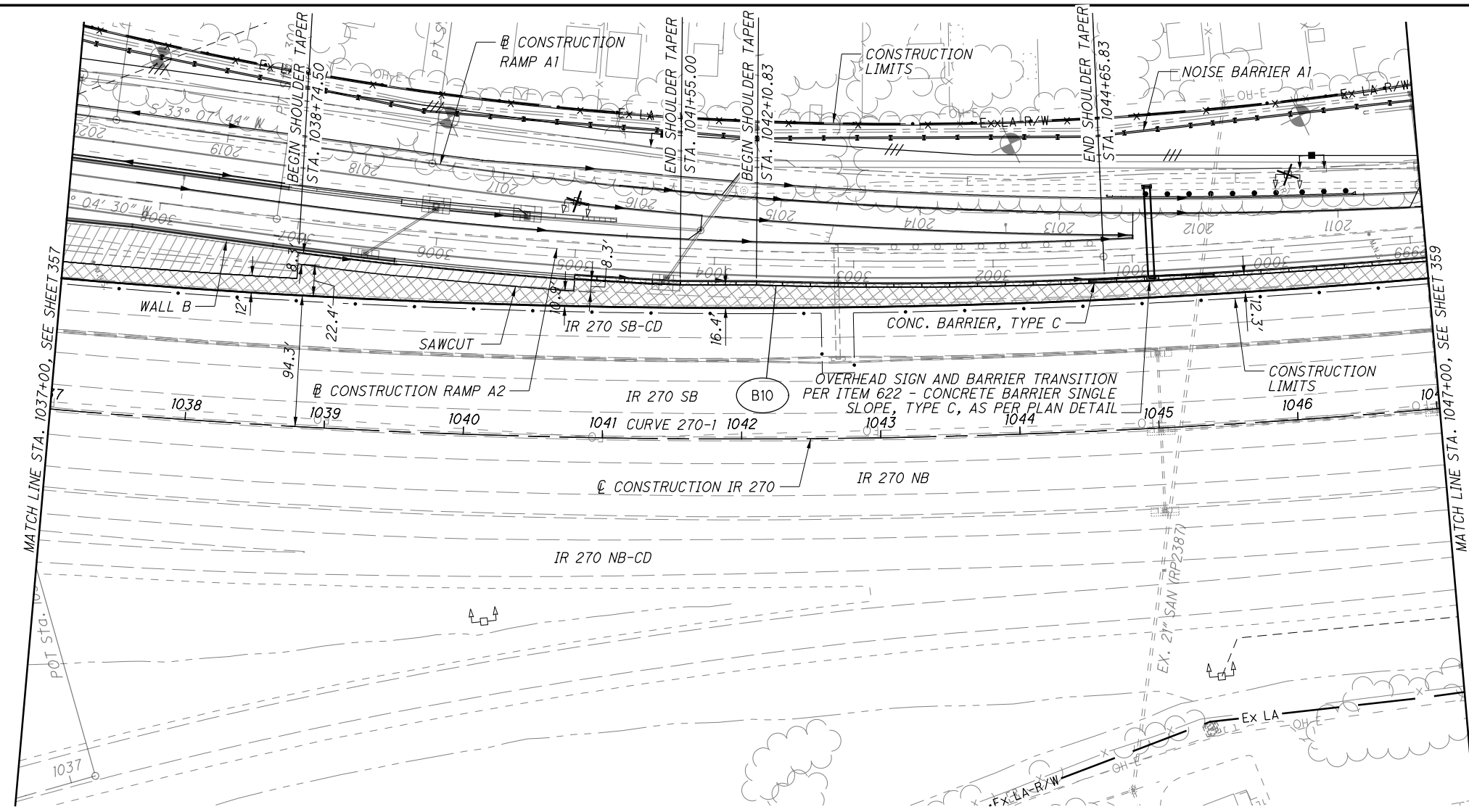
STATION TO STATION		SIDE	LENGTH L (FT)	AVERAGE WIDTH W (FT)	SURFACE AREA A=LxW (SF)	CADD MEASURED AREAS (SF)	202	204	204	301	304	407	442	442	442						
							PAVEMENT REMOVED SY	SUBGRADE COMPACTION SY	PROOF ROLLING HOUR	ASPHALT CONCRETE BASE, PG64-22 CY	AGGREGATE BASE CY	NON-TRACKING TACK COAT GAL	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446) CY	ANTI-SEGREGATION EQUIPMENT CY						
FROM	TO																				
RAMP A1																					
2016+16.59	2017+70.14	LT/RT	153.55	33.60	5159								20								
				36.80	5650							38	31								
				37.13	5702				92		38										
				37.63	5778				94		39										
				38.13	5855			651	0.3		108										
				16.00	2457															23	
2017+70.14	2022+00.00	LT/RT	429.86	36.40	15647								60								
				38.07	16363			1818	0.9	265	303	327		88							
				16.00	6878															64	
2022+00.00	2031+00.00	LT/RT	900.00	26.00	23400							156	90	126							
				26.67	24000					389		160									
				27.67	24900					403		166									
				28.67	25800			2867	1.4		478										
				16.00	14400															133	
						31801	3533														
RAMP A2																					
2995+09.95	3004+72.03	LT/RT	962.08	0.00	50761	50761						338	196	274							
				0.33	51082					828		341									
				0.83	51883					841		346									
				1.33	53166			5907	3.0		985									305	
2995+09.96	3012+04.22	LT/RT	1694.26			40683	4520														
3000+98.97	3004+72.03	RT	373.06	16.00	5969			663	0.3	193	111	119	23	32	55						
3004+72.03	3008+17.84	LT/RT	345.81	40.00	13832			1537	0.8	448	256	277	53	75						77	
				24.00	8299																
3008+17.84	3008+83.41	LT/RT	65.57	41.21	2702			300	0.2	88	50	54	10	15						15	
				24.00	1574																
3008+83.41	3011+05.33	LT/RT	221.92	44.50	9875			1097	0.5	320	183	198	38	53						49	
				24.00	5326																
3028+34.17	3030+79.11	LT/RT	244.94	43.50	10655			1184	0.6	345	197	213	41	58						58	
				25.50	6246																
3030+79.11	3030+99.11	LT/RT	20.00	44.00	880			98	0.1	29	16	18	3	5						4	
				24.00	480																
3030+99.11	3031+45.19	LT/RT	46.08	46.00	2120			236	0.1	69	39	42	8	11						10	
				24.00	1106																
3031+45.19	3038+44.46	LT/RT	699.27	29.33	20512			2279	1.1	665	380	410	79	111						78	
				12.00	8391																
3031+45.19	3037+07.37	LT	562.18	12.00	6746			750	0.4	219	125	135	26	36							
3037+07.37	3038+44.46	LT	137.09	9.25	1268			141	0.1	41	23	25	5	7							
3031+45.19	3037+69.15	LT	623.96	14.00	8735			971	0.5	283	162	175	34	47	81						
3037+69.15	3038+44.46	LT	75.31	16.00	1205			134	0.1	39	22	24	5	7	11						
3038+44.46	3038+57.64	LT/RT	13.18	30.25	399			44	0.1	13	7	8	2	2							
<b>TOTALS CARRIED TO SUBSUMMARY SHEET</b>						<b>234</b>	8054	20676	10.5	5664.0	3446	3647	694	979	963						

CALCULATED TJS CHECKED CO	PAVEMENT SUBSUMMARY - RAMPS A1 & A2
224	1199

	202	204	204	254	255	301	302	304	305	407	441	441	442	442	442	442	442	452	452	608	875	
	PAVEMENT REMOVED	SUBGRADE COMPACTION	PROOF ROLLING	PAVEMENT PLANING, ASPHALT CONCRETE	FULL DEPTH PAVEMENT SAWING, AS PER PLAN	ASPHALT CONCRETE BASE, PG64-22	ASPHALT CONCRETE BASE, PG64-22.	AGGREGATE BASE	8" CONCRETE BASE, CLASS QC IP	NON-TRACKING TACK COAT	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), (DRIVEWAYS), (PG64-22)	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), (DRIVEWAYS), (PG64-22)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (448), (PG70-22M)	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (448)	ANTI-SEGREGATION EQUIPMENT	8" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP	9" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC IP	8" CONCRETE SIDEWALK	LONGITUDINAL JOINT ADHESIVE
<b>TOTALS CARRIED FROM SUBSUMMARY SHEET 221</b>	17288	29599	14.8	12349	12489	2687	9326	6670		8820				1931	1621			2189				
<b>TOTALS CARRIED FROM SUBSUMMARY SHEET 223</b>	4629	7307	3.6	5609	5518	2129		1208		2197				618	502			364				
<b>TOTALS CARRIED FROM SUBSUMMARY SHEET 224</b>	8054	20676	10.5			5664		3446		3647			694	979				963				
<b>TOTALS CARRIED FROM SUBSUMMARY SHEET 227</b>		47747	24.4	101	310	8273		9721		7123			1295	1914				1998		5382		
<b>TOTALS CARRIED FROM SUBSUMMARY SHEET 228</b>	2165	725	1.0	675	556	252		121		261			46	65				36				74
<b>TOTALS CARRIED FROM SUBSUMMARY SHEET 229</b>	1106	4969	2.5					829												4865		
<b>TOTALS CARRIED FROM SUBSUMMARY SHEET 231</b>	1379	2777	1.4	837	724	241	878	765		777			92	118	50			165				
<b>TOTALS CARRIED FROM SUBSUMMARY SHEET 233</b>	14872	11089	7.8			148		1854	7225	1247	45	60				407	407		99		70	
<b>TOTALS CARRIED TO GENERAL SUBSUMMARY</b>	49493	124889	66.0	19571	19597	19394	10204	24614	7225	24072	45	60	2127	5625	2173	407	407	5715	99	10247	70	74

<b>FRA - 70 - 22.61</b>	CALCULATED	<b>PAVEMENT SUBSUMMARY</b>	TJS
	CHECKED		CO

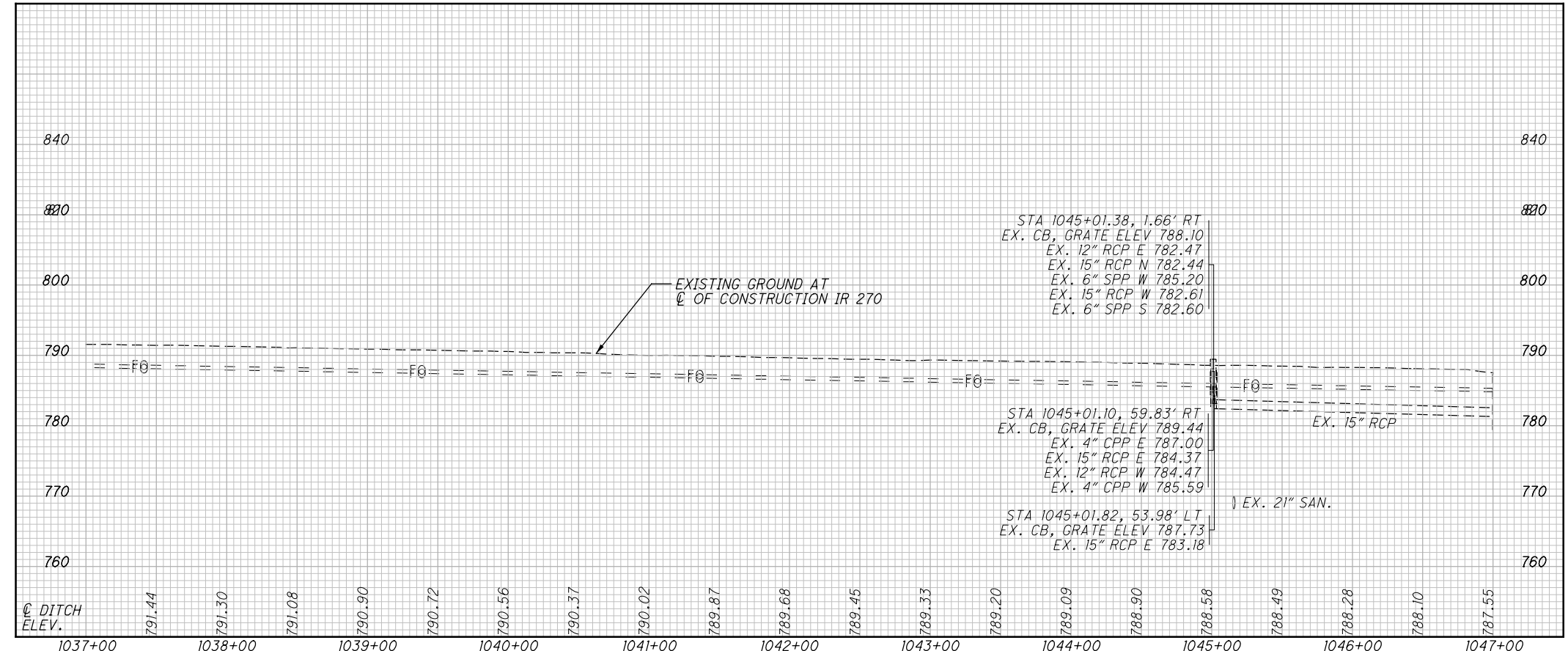
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CROSS REFERENCES	
SHEET NO.	DESCRIPTION
3 - 7	☉ REFERENCE & BENCHMARKS
212 - 213	ESTIMATED QUANTITIES
362 - 399	IR 270 CROSS SECTIONS
400 - 406	RAMP A1 PLAN AND PROFILES
407 - 422	RAMP A1 CROSS SECTIONS
423 - 438	RAMP A2 PLAN AND PROFILES
439 - 466	RAMP A2 CROSS SECTIONS
703 - 753	DRAINAGE
701 - 702	GRADING PLAN
670 - 683	TERMINAL DETAILS

**GEOMETRIC DATA:**

☉ CONSTRUCTION IR 270  
 CURVE 270-1  
 P.I. Sta. 1036+65.35  
 $\Delta = 45^\circ 38' 24" (LT)$   
 $Dc = 1^\circ 00' 00"$   
 $R = 5,729.58'$   
 $T = 2,410.85'$   
 $L = 4,564.00'$   
 $E = 486.55'$   
 $C = 4,444.29'$   
 $C.B. = N 31^\circ 53' 44" E$   
 $eMAX = 0.033$



**NOTES:**

**LEGEND:**

- PAVEMENT PLANING
- PAVEMENT REMOVED
- EXISTING WETLAND

NOTES:

LEGEND:

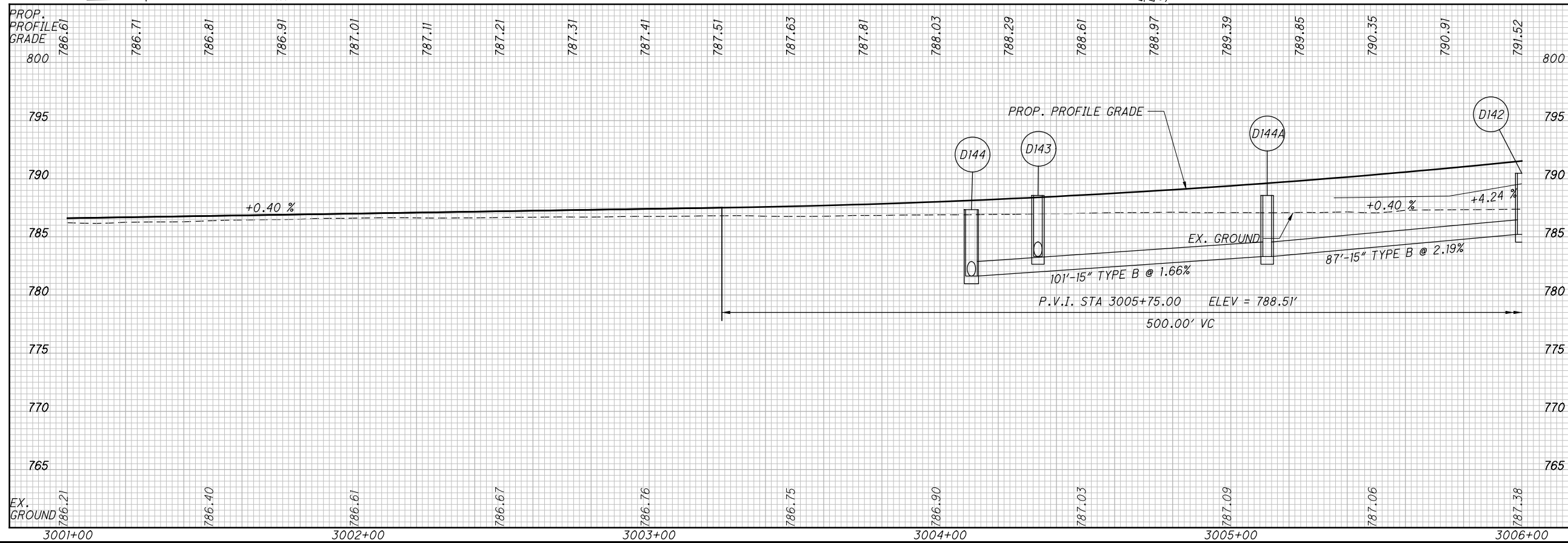
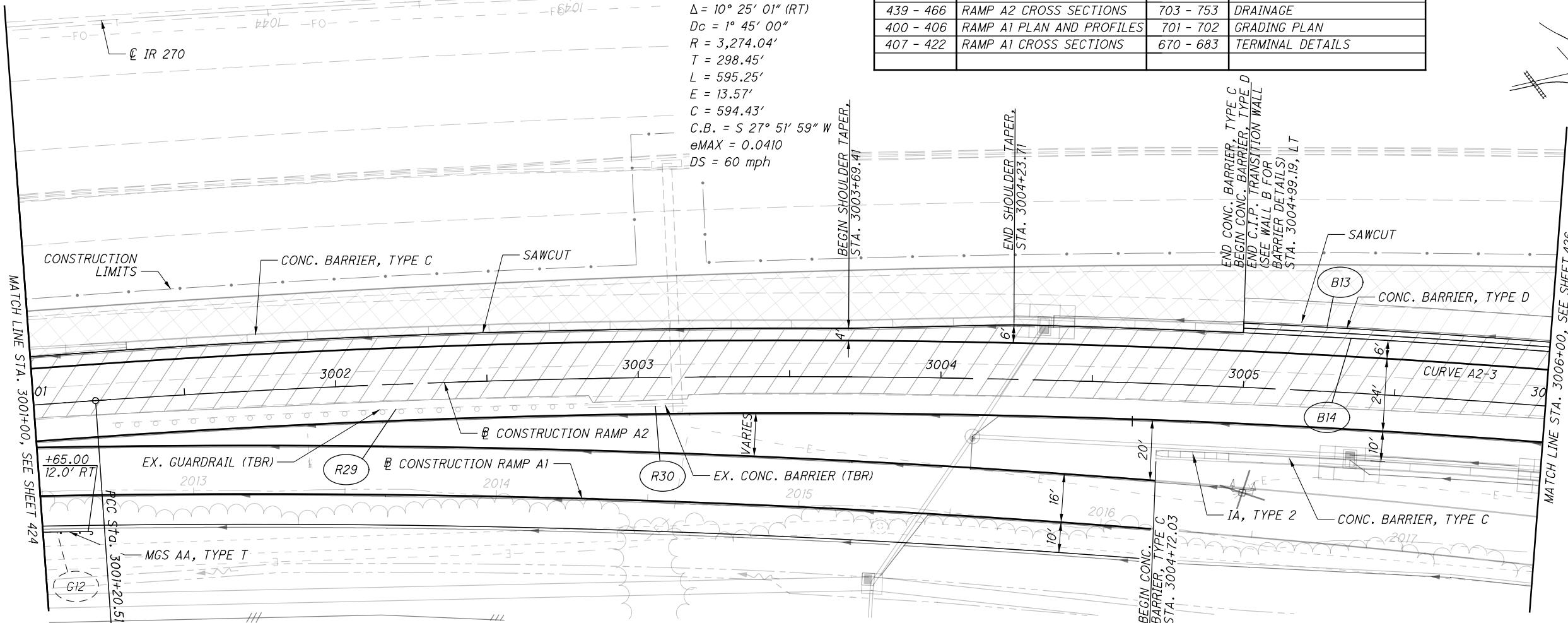
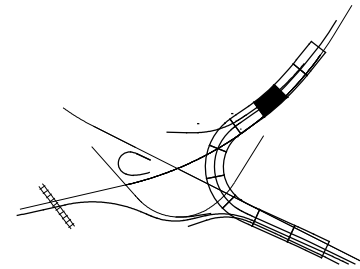
PAVEMENT REMOVED

GEOMETRIC DATA:

@ CONSTRUCTION RAMP A2  
 CURVE DATA A2-3  
 P.I. Sta. 3004+18.96  
 $\Delta = 10^\circ 25' 01''$  (RT)  
 $D_c = 1^\circ 45' 00''$   
 $R = 3,274.04'$   
 $T = 298.45'$   
 $L = 595.25'$   
 $E = 13.57'$   
 $C = 594.43'$   
 $C.B. = S 27^\circ 51' 59'' W$   
 $e_{MAX} = 0.0410$   
 $DS = 60$  mph

CROSS REFERENCES			
SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
3 - 7	@ REFERENCE & BENCHMARKS	352 - 361	IR 270 PLAN AND PROFILES
212 - 213	ESTIMATED QUANTITIES	362 - 399	IR 270 CROSS SECTIONS
439 - 466	RAMP A2 CROSS SECTIONS	703 - 753	DRAINAGE
400 - 406	RAMP A1 PLAN AND PROFILES	701 - 702	GRADING PLAN
407 - 422	RAMP A1 CROSS SECTIONS	670 - 683	TERMINAL DETAILS

PLAN KEY MAP:



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PLAN AND PROFILE - RAMP A2  
STA. 3001+00 TO STA. 3006+00

FRA-70-22.61

425  
1199

NOTES:

LEGEND:

PAVEMENT REMOVED

TRANSITION TOP WIDTH OF CONCRETE BARRIER, SINGLE SLOPE, TYPE D FROM 12" TO 19.5" OVER 20'

**GEOMETRIC DATA:**

CONSTRUCTION RAMP A2  
 CURVE DATA A2-3  
 P.I. Sta. 3004+18.96  
 $\Delta = 10^\circ 25' 01''$  (RT)  
 $D_c = 1^\circ 45' 00''$   
 $R = 3,274.04'$   
 $T = 298.45'$   
 $L = 595.25'$   
 $E = 13.57'$   
 $C = 594.43'$   
 C.B. = S 27° 51' 59" W  
 $e_{MAX} = 0.0410$   
 DS = 60 mph

**GEOMETRIC DATA:**

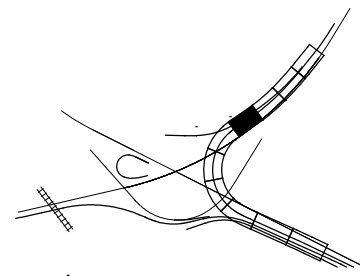
CONSTRUCTION RAMP A2  
 SPIRAL 1 DATA A2-4  
 P.I. STA. 3011+28.88  
 $L_s = 224.00'$   
 $f_s = 7^\circ 28' 00''$   
 $LT = 149.47'$   
 $ST = 74.79'$   
 $x = 223.62'$   
 $y = 9.72'$   
 $k = 111.94'$   
 $p = 2.43'$

**GEOMETRIC DATA:**

CONSTRUCTION RAMP A2  
 CURVE DATA A2-4  
 P.I. Sta. 3026+28.01  
 $\Delta = 121^\circ 18' 47''$  (LT)  
 $D_c = 6^\circ 40' 00''$   
 $R = 859.44'$   
 $\Delta c = 102^\circ 38' 47''$  (LT)  
 $L_c = 1,539.70'$   
 $E = 902.42'$   
 $C = 1,341.90'$   
 C.B.1 = S 30° 35' 11" W  
 C.B. = S 25° 42' 54" E  
 C.B.2 = N 84° 30' 22" W  
 $e_{MAX} = 0.0600$   
 DS = 50 mph

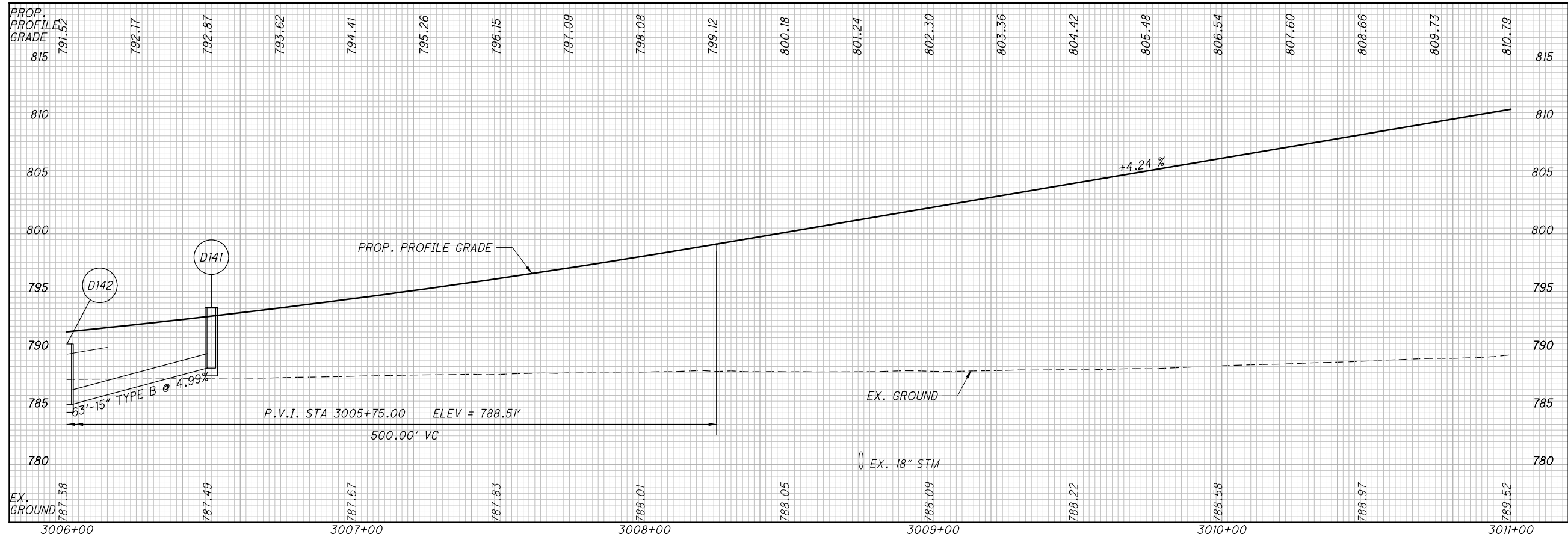
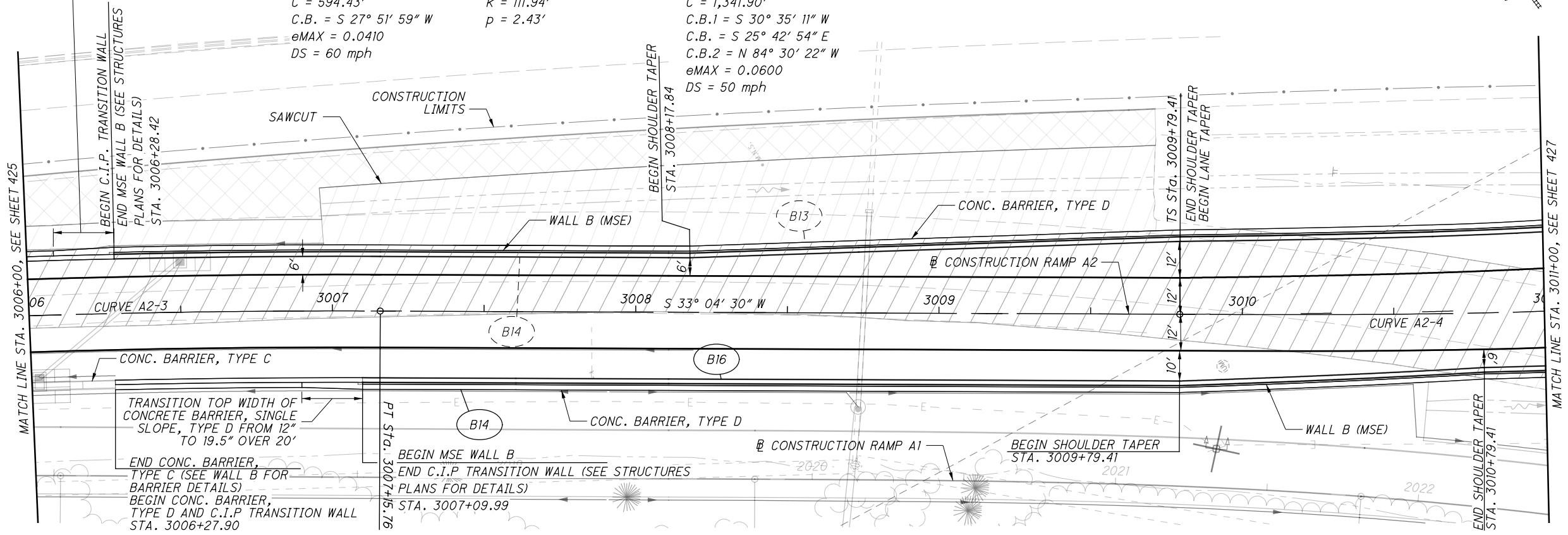
CROSS REFERENCES			
SHEET NO.	DESCRIPTION	SHEET NO.	DESCRIPTION
3 - 7	REFERENCE & BENCHMARKS	352 - 361	IR 270 PLAN AND PROFILES
212 - 213	ESTIMATED QUANTITIES	362 - 399	IR 270 CROSS SECTIONS
439 - 466	RAMP A2 CROSS SECTIONS	703 - 753	DRAINAGE
400 - 406	RAMP A1 PLAN AND PROFILES	670 - 683	TERMINAL DETAILS
407 - 422	RAMP A1 CROSS SECTIONS		

PLAN KEY MAP:



CALCULATED RMP CHECKED SUB

0 20 40  
 HORIZONTAL SCALE IN FEET



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PLAN AND PROFILE - RAMP A2  
 STA. 3006+00 TO STA. 3011+00

FRA-70-22.61

426  
 1199