

WORKSITE TRAFFIC SUPERVISOR

SUBJECT TO APPROVAL OF THE ENGINEER, THE CONTRACTOR SHALL EMPLOY AND IDENTIFY (SOMEONE OTHER THAN THE SUPERINTENDENT) A PREQUALIFIED WORKSITE TRAFFIC SUPERVISOR (WTS) BEFORE STARTING WORK IN THE FIELD. THE WTS SHALL BE TRAINED IN ACCORDANCE WITH CMS 614.03, SHALL HAVE SUCCESSFULLY COMPLETED ODOT ADMINISTERED WTS TESTING (AND RE-TESTING WHEN APPLICABLE) AND BE LISTED ON THE ODOT PREQUALIFIED WTS ROSTER. PREQUALIFICATION EXPIRES EVERY 5 YEARS. RE-TESTING SHALL BE SUCCESSFULLY REPEATED EVERY 5 YEARS TO REMAIN PREQUALIFIED.

THE NAME OF THE PREQUALIFIED WTS AND RELATED 24-HOUR CONTACT INFORMATION SHALL BE PROVIDED TO THE ENGINEER AT THE PRECONSTRUCTION CONFERENCE. IF THE DESIGNATED WTS WILL NOT BE AVAILABLE FULL TIME (24/7), THE CONTRACTOR MAY DESIGNATE AN ALTERNATE (SECONDARY) WTS TO BE AVAILABLE WHEN THE PRIMARY IS OFF DUTY; HOWEVER THE PRIMARY WTS SHALL REMAIN THE POINT OF CONTACT AT ALL TIMES. ANY ALTERNATE (SECONDARY) WTS IS SUBJECT TO THE SAME TRAINING, PREQUALIFICATION AND OTHER REQUIREMENTS OUTLINED WITHIN THIS PLAN NOTE. AT ALL TIMES THE ENGINEER, OR ENGINEER'S REPRESENTATIVES, MUST BE INFORMED OF WHO THE PRIMARY WTS (AND SECONDARY WTS, IF APPLICABLE) IS AT THE CURRENT TIME.

THE WTS POSITION HAS THE PRIMARY RESPONSIBILITY OF IMPLEMENTING THE TRAFFIC MANAGEMENT PLAN (TMP), MONITORING THE SAFETY AND MOBILITY OF THE ENTIRE WORK ZONE, AND CORRECTING TEMPORARY TRAFFIC CONTROL (TTC) DEFICIENCIES FOR THE ENTIRE WORK ZONE. THE WTS, AND ALTERNATE WTS WHEN ON DUTY, SHALL HAVE SUFFICIENT AUTHORITY TO EFFECTIVELY CARRY OUT THE IDENTIFIED WTS RESPONSIBILITIES AND DUTIES. THE DUTIES OF THE WTS ARE AS FOLLOWS:

1. BE AVAILABLE ON A 24-HOUR PER DAY BASIS.
2. BE ON SITE FOR ALL EMERGENCY TTC NEEDS WITHIN ONE HOUR OF NOTIFICATION BY POLICE OR PROJECT STAFF, AND EFFECT CORRECTIVE MEASURES IMMEDIATELY ON EXISTING WORK ZONE TTC DEVICES.
3. ATTEND PRECONSTRUCTION MEETING AND ALL PROJECT MEETINGS WHERE TTC MANAGEMENT IS DISCUSSED.
4. BE AVAILABLE ON SITE FOR OTHER MEETINGS OR DISCUSSIONS WITH THE ENGINEER UPON REQUEST.
5. BE AWARE OF ALL EXISTING AND PROPOSED TTC OPERATIONS OF THE CONTRACTOR, SUBCONTRACTORS AND SUPPLIERS, AND ENSURE COORDINATION OCCURS BETWEEN THEM TO ELIMINATE CONFLICTING TEMPORARY AND/OR PERMANENT TRAFFIC CONTROL.
6. COORDINATE PROJECT ACTIVITIES WITH ALL LAW ENFORCEMENT OFFICERS (LEOS). THE WTS SHALL ALSO BE THE MAIN CONTACT PERSON WITH THE LEOS WHILE LEOS ARE ON THE PROJECT.
7. COORDINATE AND FACILITATE MEETINGS WITH ODOT PERSONNEL, LEOS AND OTHER APPLICABLE ENTITIES BEFORE EACH PLAN PHASE SWITCH TO DISCUSS THE WORK ZONE TTC FOR IMPLEMENTING THE PHASE SWITCH. SUBMIT A WRITTEN DETAIL OF MOT OPERATIONS AND SCHEDULE OF EVENTS TO IMPLEMENT THE SWITCH BETWEEN PHASE PLANS TO THE ENGINEER 5 CALENDAR DAYS PRIOR TO THIS MEETING.
8. BE PRESENT, ON SITE FOR, AND INVOLVED WITH, EACH TTC SET UP/TAKE DOWN AND EACH PHASE CHANGE IN ACCORDANCE WITH CMS 614.03.

9. ON A CONTINUAL BASIS ENSURE THAT THE TTC ZONE AND ALL RELATED DEVICES ARE INSTALLED, MAINTAINED AND REMOVED IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.

10. ON A CONTINUAL BASIS FACILITATE CORRECTIVE ACTION(S) NECESSARY TO BRING DEFICIENT TTC ZONES AND ALL RELATED DEVICES INTO COMPLIANCE WITH CONTRACT DOCUMENTS IN THE TIMEFRAME DETERMINED BY THE ENGINEER.

11. INSPECT, EVALUATE, PROPOSE NECESSARY MODIFICATIONS TO, AND DOCUMENT THE EFFECTIVENESS OF, THE TTC DEVICES AND TRAFFIC OPERATIONS ON A DAILY BASIS (7 DAYS A WEEK). IN ADDITION, PERFORM ONE WEEKLY NIGHT INSPECTION OF THE WORK ZONE SETUP FOR DAYTIME WORK OPERATIONS; AND ONE DAYTIME INSPECTION PER WEEK FOR NIGHTTIME PROJECTS. THIS SHALL INCLUDE (BUT NOT BE LIMITED TO) DOCUMENTATION ON THE FOLLOWING PROJECT EVENTS:

- A. INITIAL TTC SETUP (DAY AND NIGHT REVIEW).
- B. DAILY TTC SETUP AND REMOVAL.
- C. WHEN CONSTRUCTION STAGING CAUSES A CHANGE IN THE TTC SETUP.
- D. CRASH OCCURRENCES WITHIN THE CONSTRUCTION AREA AND WITHIN THE INFLUENCE AREA(S) APPROACHING THE WORK ZONE.
- E. REMOVAL OF TTC DEVICES AT THE END OF A PHASE OR PROJECT.
- F. ALL OTHER EMERGENCY TTC NEEDS.

12. COMPLETE THE DEPARTMENT APPROVED LONG TERM INSPECTION FORM (CA-D-8) AFTER EACH INSPECTION AS REQUIRED IN # 11 AND SUBMIT IT TO THE ENGINEER THE FOLLOWING WORKDAY. THESE REPORTS SHALL INCLUDE A CHECKLIST OF ALL TTC MAINTENANCE ITEMS TO BE REVIEWED. A COPY OF THE FORM WILL BE PROVIDED AT THE PRE-CONSTRUCTION MEETING. ANY DEFICIENCIES OBSERVED SHALL BE NOTED, ALONG WITH RECOMMENDED OR COMPLETED CORRECTIVE ACTIONS AND THE DATES BY WHICH SUCH CORRECTIONS WERE, OR WILL BE, COMPLETED. A COPY OF THE CURRENT CA-D-8 DOCUMENT CAN BE FOUND ON THE OFFICE OF CONSTRUCTION ADMINISTRATION'S INSPECTION FORMS WEBSITE.

13. HAVE COPIES OF THE ODOT TEMPORARY TRAFFIC CONTROL MANUAL AND CONTRACT DOCUMENTS AVAILABLE AT ALL TIMES ON THE PROJECT.

THE DEPARTMENT WILL DEDUCT:

- A. THE PRORATED DAILY AMOUNT OF ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY IN WHICH THE WTS FAILS TO PERFORM THE DUTIES SET FORTH ABOVE. THE PRORATED DAILY AMOUNT WILL BE EQUAL TO THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC DIVIDED BY THE DIFFERENCE BETWEEN THE ORIGINAL COMPLETION DATE AND THE FIRST DAY OF WORK, IN CALENDAR DAYS.
- B. 1% OF THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A TTC ISSUE IS IDENTIFIED IN THE FIELD AND IS NOT CORRECTED IN THE GIVEN TIMEFRAME PER THE ENGINEER. DEDUCTION B SHALL NOT APPLY TO SITUATIONS COVERED BY DEDUCTION C.

C. 1% OF THE ORIGINAL BID AMOUNT FOR ITEM 614 MAINTAINING TRAFFIC FOR ANY DAY THAT A LANE OR RAMP IS BLOCKED (FULLY OR PARTIALLY) WITHOUT TTC, AS DETERMINED BY THE ENGINEER. THIS DEDUCTION SHALL BE IN ADDITION TO ANY OTHER DISINCENTIVES ESTABLISHED FOR UNAUTHORIZED LANE USE.

FOR DAYS IN WHICH MORE THAN ONE DEDUCTION LISTED ABOVE OCCUR, THE HIGHEST DEDUCTION AMOUNT WILL APPLY.

IF THREE OR MORE TOTAL DAYS RESULT IN TTC ISSUES DESCRIBED IN DEDUCTION B OR C ABOVE, THE PRIMARY WTS SHALL BE IMMEDIATELY REMOVED FROM THE WORK IN ACCORDANCE WITH C&MS 108.05. UPON REMOVAL THE ENGINEER SHALL NOTIFY ODOT CENTRAL OFFICE (WTSPREQUALIFICATION@DOT.OHIO.GOV) TO REGISTER A REMOVAL AGAINST THE STATEWIDE PREQUALIFICATION FOR THE PRIMARY WTS. THREE REMOVALS SHALL CAUSE STATEWIDE DISQUALIFICATION FOR ANY PREVIOUSLY PREQUALIFIED WTS.

PAYMENT FOR THE ABOVE REQUIREMENTS, RESPONSIBILITIES AND DUTIES SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

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.

ESTIMATED QUANTITIES ARE TABULATED ON THE SUB-SUMMARIES INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY FOR:

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

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO PERFORM THE RESURFACING WORK:

ITEM 254, PAVEMENT PLANING, ASPHALT CONCRETE, 1 1/2" 124,944 SY

ITEM 407, NON-TRACKING TACK COAT 10,620 GAL

ITEM 442, 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (446), AS PER PLAN, PG76-22M 5,206 CY

DELINEATION OF PORTABLE AND PERMANENT BARRIER

DELINEATION OF PORTABLE AND PERMANENT 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 ALONG TAPERS.

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 MT-101.70.

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 TRIPLESTACKED BARRIER REFLECTORS SHALL CONFORM TO C&MS 626, EXCEPT THAT THEY SHALL BE SPACED AND ALIGNED PER TRAFFIC SCD MT-101.70.

ESTIMATED QUANTITIES FOR THIS WORK ARE TABULATED ON THE SUBSUMMARIES INCLUDED IN THE PLANS AND CARRIED TO THE GENERAL SUMMARY FOR:

ITEM 614, BARRIER REFLECTOR, TYPE 1, ONE WAY
ITEM 614, OBJECT MARKER, ONE WAY
ITEM 614, OBJECT MARKER, TWO WAY
ITEM 614, INCREASED BARRIER DELINEATION

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 SPACES BETWEEN THE INDIVIDUAL DELINEATION PANELS OR STACKS OF BARRIER REFLECTORS.

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MAINTENANCE OF TRAFFIC GENERAL NOTES

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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 87 EACH
ITEM 614, OBJECT MARKER, ONE WAY 87 EACH

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

ITEM 614 - WORK ZONE PAVEMENT MARKINGS, SPRAY THERMOPLASTIC, AS PER PLAN

THE CONTRACTOR SHALL PLACE THE WORK ZONE PAVEMENT MARKINGS, SPRAY THERMOPLASTIC, AS PER PLAN PER ODOT SPECIFICATION 614.11 AND ODOT SPECIFICATION 648 WITH THE EXCEPTION ODOT SPECIFICATION 648.05 SHALL BE MODIFIED TO ALLOW PLACEMENT OF THE MATERIAL AT A TEMPERATURE OF NOT LESS THAN 35 DEGREES FAHRENHEIT.



WORK ZONE SPEED ZONES (WZSZS)

THE FOLLOWING WORK ZONE SPEED ZONE (WZSZ) SPEED LIMIT REVISIONS HAVE BEEN APPROVED FOR USE ON THIS PROJECT WHEN WORK ZONE CONDITIONS AND FACTORS ARE MET AS DESCRIBED BELOW:

WZSZ REVISION NUMBERS COUNTY-ROUTE-SECTIONS DIRECTIONS:
WZ- 26162 SUM-77-21.20 TO 23.03 NB
WZ- 26162 SUM-77-21.50 TO 23.35 SB

POTENTIAL WZSZ LOCATIONS SHALL HAVE AN ORIGINAL (PRE-CONSTRUCTION) POSTED SPEED LIMIT OF 55 MPH OR GREATER, A QUALIFYING WORK ZONE CONDITION OF AT LEAST 0.5 MILE IN LENGTH, AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS, AND A WORK ZONE CONDITION IN PLACE THAT REDUCES THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS (I.E., LANE CLOSURE, LANE SHIFT, CROSSOVER, CONTRAFLOW AND/OR SHOULDER CLOSURE). THE LENGTH OF THE WORK ZONE CONDITION IS MEASURED FROM THE BEGINNING OF THE TAPER FOR THE SUBJECT WORK ZONE CONDITION IMPACTING THE TRAVEL LANES AND/OR SHOULDER TO THE END OF THE DOWNSTREAM TAPER, WHERE DRIVERS ARE RETURNED TO TYPICAL ALIGNMENT. AN EXPECTED WORK DURATION OF AT LEAST THREE HOURS IS REQUIRED TO BALANCE THE ADDITIONAL EXPOSURE CREATED BY INSTALLING AND REMOVING WZSZ SIGNING WITH THE TIME NEEDED TO COMPLETE THE WORK.

IF THE WORK ZONE MEETS THESE MINIMUM CRITERIA, IT SHALL BE ANALYZED FURTHER USING TABLE 1 BELOW TO DETERMINE IF AND WHEN IT QUALIFIES FOR A SPEED LIMIT REDUCTION. DEPENDING ON THE ORIGINAL POSTED SPEED LIMIT, THE TYPE OF TEMPORARY TRAFFIC CONTROL USED, AND WHETHER OR NOT WORKERS ARE PRESENT, A WARRANTED WZSZ WILL VARY IN THE APPROVED SPEED LIMIT TO BE POSTED OVER TIME.

C&MS ITEM 614, PARAGRAPH 614.02(B), INDICATES THAT TWO DIRECTIONS OF A DIVIDED HIGHWAY ARE CONSIDERED SEPARATE HIGHWAY SECTIONS. THEREFORE, IF THE WORK ON A MULTI-LANE DIVIDED HIGHWAY IS LIMITED TO ONLY ONE DIRECTION, A SPEED LIMIT REDUCTION IN THE DIRECTION OF THE WORK DOES NOT AUTOMATICALLY CONSTITUTE A SPEED LIMIT REDUCTION IN THE OPPOSITE DIRECTION. EACH DIRECTION SHALL BE ANALYZED INDEPENDENTLY FROM EACH OTHER.

ALL WZSZS FLUCTUATE BETWEEN TWO APPROVED REDUCED SPEED LIMITS OR BETWEEN AN APPROVED REDUCED SPEED LIMIT AND THE ORIGINAL POSTED SPEED LIMIT. ONLY ONE OF TWO SIGNING STRATEGIES SHALL BE USED TO IMPLEMENT A WZSZ.

WZSZS USING DSL SIGN ASSEMBLIES SHALL BE IN ACCORDANCE WITH THIS NOTE, APPROVED LIST, SUPPLEMENTAL SPECIFICATIONS (SS) 808 AND 908, AND TRAFFIC SCD MT-104.10.

WZSZS USING TEMPORARY FLATSHEET SPEED LIMIT SIGNS SHALL BE IN ACCORDANCE WITH THIS NOTE AND SCD MT-104.10. ADDITIONALLY PAYMENT MAY BE REMOVED, OR A DISINCENTIVE APPLIED, FOR WZSZS USING TEMPORARY FLATSHEET SPEED LIMIT SIGNS THE SAME AS DESCRIBED IN THE MOST RECENT PUBLICATION OF SS 808 IN REGARDS TO WZSZS USING DSL SIGN ASSEMBLIES (SEE SS 808.06 PARAGRAPHS 4 THROUGH 7, INCLUDING TABLE 1).

ONLY ONE WARRANTED SPEED LIMIT APPLIES AT ANY ONE TIME; SPEED LIMIT REDUCTIONS ARE NOT CUMULATIVE. WZSZS SHALL NOT BE USED FOR MOVING/MOBILE ACTIVITIES, AS DEFINED IN ODOTCD PART 6.

WHEN LOOKING UP THE WARRANTED WORK ZONE SPEED LIMITS, ALWAYS USE THE ORIGINAL, PRECONSTRUCTION, POSTED SPEED LIMIT. DO NOT USE A PRIOR OR CURRENT WORK ZONE SPEED LIMIT AS A LOOK UP VALUE IN THE TABLE. POSITIVE PROTECTION IS GENERALLY REGARDED AS PORTABLE BARRIER OR OTHER RIGID BARRIER IN USE ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WITHOUT POSITIVE PROTECTION IS GENERALLY REGARDED AS USING DRUMS, CONES, SHADOW VEHICLE, ETC., ALONG THE WORK AREA WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WORKERS ARE CONSIDERED AS BEING PRESENT WHEN ON-SITE, WORKING WITHIN THE SUBJECT WARRANTED WORK ZONE CONDITION. WHEN THE WORK ZONE CONDITION REDUCING THE EXISTING FUNCTIONALITY OF THE TRAVEL LANES OR SHOULDERS IS REMOVED, THE SPEED LIMIT DISPLAYED SHALL RETURN TO THE ORIGINAL POSTED SPEED LIMIT.

TABLE 1: WARRANTED WORK ZONE SPEED LIMITS (MPH) FOR WORK ZONES ON HIGH-SPEED (55 MPH OR GREATER) MULTI-LANE HIGHWAYS:

ORIGINAL POSTED SPEED LIMIT	WITH POSITIVE PROTECTION		WITHOUT POSITIVE PROTECTION	
	WORKERS PRESENT	WORKERS NOT PRESENT	WORKERS PRESENT	WORKERS NOT PRESENT
70	60	65	55	65
65	55	60	50	60
60	55	60	50	60
55	50	55	45	55

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 808, DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY
102 SIGN MNTH
ASSUMING 6 DSL SIGN ASSEMBLIES FOR
17 MONTHS

ITEM 614, MAINTAINING TRAFFIC MISC.: BRIDGE DECK AND PAVEMENT PATCHING

THIS WORK WILL BE AS DIRECTED BY THE ENGINEER AND WILL INCLUDE ALL ASSOCIATED MOT COSTS WITH THE ACTIVITY. THE COST FOR EACH ITEM SHALL BE \$1.00. THE FIXED AMOUNT SHOWN IN THE PROPOSAL IS INCLUDED (AS ANY OTHER BID ITEMS) IN THE TOTAL BID AMOUNT. THIS FIXED AMOUNT IS THE DEPARTMENT'S ESTIMATE OF THE TOTAL COST OF BRIDGE DECK AND PAVEMENT PATCHING WORK REQUIRED TO BE PERFORMED WITHIN THE WORK LIMITS AS DIRECTED BY THE ENGINEER. C&MS TABLE 104.02-2 DOES NOT APPLY TO REDUCTIONS IN THIS CONTRACT ITEM. FORCE ACCOUNT RECORDS SHALL BE KEPT TO TRACK AND ULTIMATELY DETERMINE THE AMOUNT OF THE PAY ITEM USED. THE WORK ITEM SHALL INCLUDE ALL WORK, AS DIRECTED BY THE ENGINEER, NEEDED TO RE-ESTABLISH A REASONABLY SAFE AND PASSABLE CONDITION OF THE DECK AND/OR PAVEMENT FOR THE DURATION OF THE REQUIRED UPCOMING MOT PHASES. THE CONTRACTOR SHALL MEET WITH THE ENGINEER TO ESTABLISH THE WORK AFTER EXECUTION OF THE CONTRACT. THE CONTRACTOR'S PROPOSED PHASING AND PHASING DURATIONS WILL ASSIST THE ENGINEER IN DETERMINING THE EXTENT OF THE WORK. THIS WORK IS ONLY INTENDED TO ESTABLISH A SAFE AND DRIVABLE CONDITION FOR THE DURATION OF THE PROJECT. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITIES OF 614.02B.

ITEM 614 MAINTAINING TRAFFIC MISC: BRIDGE DECK AND PAVEMENT PATCHING = \$100,000.00 EACH

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

THE FULL DEPTH PAVEMENT COMPOSITION FOR THIS ITEM SHALL BE:

- ITEM 442 - 1 1/2" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449), AS PER PLAN
- ITEM 407 - NON-TRACKING TACK COAT
- ITEM 442 - 1 3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (449)
- ITEM 407 - NON-TRACKING TACK COAT
- ITEM 302 - 9" ASPHALT CONCRETE BASE, PG64-22, (449)
- ITEM 304 - 6" AGGREGATE BASE
- ITEM 204 - SUBGRADE COMPACTION

WHERE SHOULDER RECONSTRUCTION IS PROPOSED, DO NOT DISTURB THE EXISTING UNDERDRAINS AND DRAINAGE AGGREGATE. THE CROSS SLOPE OF THE SHOULDER RECONSTRUCTION SHALL BE AS SHOWN ON THE PAVEMENT FOR MAINTAINING TRAFFIC TYPICAL SECTIONS SHEETS 38 - 43.

PAVEMENT FOR M.O.T., SHALL BE LEFT IN PLACE IN AREAS INDICATED ON PAVEMENT FOR MAINTAINING TRAFFIC TYPICAL SECTIONS. VARY THE CROSS SLOPE OF THE SHOULDER AS SHOWN ON PAVEMENT FOR MAINTAINING TRAFFIC TYPICAL SECTIONS. IN AREAS WHERE THE CROSS SLOPE WAS MODIFIED TO ACCOMMODATE TEMPORARY TRAFFIC, RESTORE THE ORIGINAL PAVEMENT CROSS SLOPE AS INDICATED ON TYPICAL SECTIONS.

THE PAVEMENT RESURFACING WORK FOR THIS ITEM SHALL BE AS SHOWN ON PAVEMENT FOR MAINTAINING TRAFFIC TYPICAL SECTIONS SHEETS 38 - 43. IN AREAS WHERE THE CROSS SLOPE WAS MODIFIED TO ACCOMMODATE TEMPORARY TRAFFIC, RESTORE THE ORIGINAL PAVEMENT CROSS SLOPE AS INDICATED ON PAVEMENT FOR MAINTAINING TRAFFIC TYPICAL SECTIONS.

FULL DEPTH BUILD-UP, RESURFACING, AND PAVEMENT FOR M.O.T. REMOVAL, WORK SHALL BE INCLUDED IN THE UNIT BID PRICE PER SY FOR ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, AS PER PLAN. CROSS SLOPE RESTORATION, SAWCUTS, PARTIAL PAVEMENT FOR M.O.T., REMOVAL AND ALL INCIDENTAL WORK REQUIRED SHALL BE INCLUDED IN THE LUMP SUM UNIT BID PRICE FOR ITEM 615, ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN.

ALL OTHER REQUIREMENTS OF CMS 615 SHALL APPLY. ALTHOUGH ESTIMATES FOR TEMPORARY EXCAVATION, EMBANKMENT, SEEDING AND OTHER WORK ARE SHOWN, THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO, AND INCLUDED WITH PAYMENT FOR ITEM 615 - ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN.

TEMPORARY DRAINAGE FACILITIES SHOWN ON THE PLANS ARE PAID UNDER ITEM 611.

TEMPORARY GUARDRAIL INSTALLATION SHOWN ON THE PLANS ARE PAID UNDER ITEM 614.

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MAINTENANCE OF TRAFFIC GENERAL NOTES

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PHASE 2 M.O.T. QUANTITIES

REF. NO.	PHASE NO.	SHEET NO.	STATION		SIDE/ LOCATION	LENGTH	614															622				
			FROM	TO			INCREASED BARRIER DELINEATION	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE IMPACT ATTENUATOR, OVER 24" AND LESS THAN 36" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE SIGN SUPPORT	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (WHITE)	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (YELLOW)	BARRIER REFLECTOR, TYPE I, ONE WAY	OBJECT MARKER, ONE WAY	OBJECT MARKER, TWO WAY	WORK ZONE LANE LINE, CLASS I, 6", 648, AS PER PLAN	WORK ZONE EDGE LINE, CLASS I, 6", 648, AS PER PLAN (WHITE)	WORK ZONE EDGE LINE, CLASS I, 6", 648, AS PER PLAN (YELLOW)	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 648, AS PER PLAN (WHITE)	WORK ZONE DOTTED LINE, CLASS I, 6", 648, AS PER PLAN (WHITE)	WORK ZONE PAVEMENT MARKING, MISC.: CORE MARKING, CLASS II, 24", 648 (WHITE)	PORTABLE BARRIER, 50" AS PER PLAN (GLARE SHIELD)	PORTABLE BARRIER, 4" CONNECTOR	PORTABLE BARRIER, UNANCHORED	PORTABLE BARRIER, ANCHORED	
						FEET	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	MILE	MILE	MILE	FEET	FEET	FEET	FT	EACH	FT	FT	
DL5	2	54,55	449+85.00	457+65.00	IR 77 NB	780																				
WZIA5	2	55	472+00.00					1																		
EY5	2	54,55	449+85.00	477+00.00	IR 77 NB	2715							62					0.52								
WZIA6	2	55	471+90.00				1																			
PB7	2	55	471+90.00	476+00.00	IR 77 NB	410	400							9	9										410	
CHI1	2	55	474+25.00	477+25.00	IR 77 NB	300							16													
PG2	2	55,56	476+00.00	484+00.00	IR 77 NB	800																			800	
CHI2	2	55	1143+84.00	1150+00.00	IR 77 SB	616																				
CHI3	2	55	1146+84.00	1153+77.00	IR 77 SB -RAMP FROM SR 21 NB	693																				
RPM10	2	55	1143+84.00	1146+84.00	IR 77 SB	300							16													
CHI4	2	55,56	1143+84.00	486+30.00	IR 77 SB/IR 77 NB	1834																				
EY6	2	55-58	1146+84.00	529+75.00	IR 77 SB	6020																				
EW5	2	55-57	1150+00.00	518+18.00	IR 77 SB	4200												0.80								
LL2	2	56	486+30.00	509+00.00	IR 77 SB	2270										0.43										
PB8	2	56	501+00.00	501+80.00	IR 77 SB	80								2	2											
PBA1	2	56	501+80.00	504+70.00	IR 77 SB	290								6	6											290
PB9	2	56,57	504+70.00	519+63.00	IR 77 SB	1320	563							27	27											1320
WZIA7	2	57	504+70.00	519+63.00	IR 77 SB			1																		
CHI5	2	57,58	509+00.00	532+75.00	IR 77 SB	2730																				2730
PB10	2	57	517+15.00	521+95.00	IR 77 SB	480	210							20	10											480
CHI6	2	57	518+18.00	519+70.00	IR 77 SB	495																				495
RPM12	2	56,57	504+00.00	507+00.00	SR 21 SB	300																				
RPM13	2	56,57	504+00.00	507+00.00	SR 21 SB	300																				
RPM14	2	56,57	504+00.00	509+55.00	SR 21 SB	555																				
EW6	2	57,58	507+00.00	535+25.00	SR 21 SB	2825												0.54								
CHI7	2	57	507+00.00	511+00.00	SR 21 SB	400																				400
CHI8	2	57	507+00.00	511+00.00	SR 21 SB	400																				400
EY7	2	57	509+55.00	516+57.00	SR 21 SB	702																				
EY8	2	57,58	511+00.00	535+85.00	SR 21 SB	2485																				
EW7	2	57,58	511+00.00	533+84.00	SR 21 SB	2284																				
PB11	2	57,58	511+00.00	537+40.00	SR 21 SB	2640	105																			2640
WZIA8	2	58	537+40.00		SR 21 SB			1																		
CHI9	2	57	516+57.00	519+70.00	SR 21 SB	313																				313
DL6	2	57	519+70.00	526+50.00	IR 77 SB/SR 21 SB	680																				680
CH20	2	57,58	526+50.00	532+75.00	IR 77 SB/SR 21 SB	625																				625
RPM11	2	57,58	529+75.00	532+75.00	SR 21 SB	300																				300
PHASE 2 TOTALS CARRIED TO SHEET						47	1278	3	1				1081	202	97	26	0.43	4.07	8406	1460		800		4930	290	

MAINTENANCE OF TRAFFIC SUBSUMMARY

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PHASE 4 M.O.T. QUANTITIES AND TOTALS

REF. NO.	PHASE NO.	SHEET NO.	STATION		SIDE/ LOCATION	LENGTH	614														622					
			FROM	TO			INCREASED BARRIER DELINEATION	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE IMPACT ATTENUATOR, OVER 24" AND LESS THAN 36" WIDE HAZARDS, (UNIDIRECTIONAL)	WORK ZONE SIGN SUPPORT	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (WHITE)	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN (YELLOW)	BARRIER REFLECTOR, TYPE 1, ONE WAY	OBJECT MARKER, ONE WAY	OBJECT MARKER, TWO WAY	WORK ZONE LANE LINE, CLASS 1, 6", 648, AS PER PLAN	WORK ZONE EDGE LINE, CLASS 1, 6", 648, AS PER PLAN (WHITE)	WORK ZONE EDGE LINE, CLASS 1, 6", 648, AS PER PLAN (YELLOW)	WORK ZONE CHANNELIZING LINE, CLASS 1, 12", 648, AS PER PLAN (WHITE)	WORK ZONE DOTTED LINE, CLASS 1, 6", 648, AS PER PLAN (WHITE)	WORK ZONE PAVEMENT MARKING, MISC.: GORE MARKING, CLASS II, 24", 648 (WHITE)	PORTABLE BARRIER, 50" AS PER PLAN (GLARE SHIELD)	PORTABLE BARRIER, 7" CONNECTOR	PORTABLE BARRIER, UNANCHORED	PORTABLE BARRIER, ANCHORED	
							FEET	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FEET	FEET	FEET	FT	EACH	FT	FT	
			☉ EX R/W IR 77	B.L. EX IR 77 NB																						
PB18	4	65	469+62.00	479+00.00	IR 77 NB	938	30																		938	
WZIA13	4	65	469+62.00		IR 77 NB			1																		
			B.L. EX IR 77 SB																							
PB19	4	67	509+80.00	522+50.00	IR 77 NB	1270	60																		1270	
WZIA14	4	67	509+80.00		IR 77 NB			1																		
			B.L. EX RELOC IR 77 SB																							
PB20	4	65	1146+50.00	1148+50.00	IR 77 SB	200	200																		200	
			B.L. EX RELOC IR 77 SB ☉ EX R/W IR 77																							
PB21	4	67	515+95.00	521+95.00	IR 77 SB	600	95																		600	
WZIA15	4	67		521+95.00	IR 77 SB			1																		
PHASE 4 TOTALS							385	3					61	61											3008	
PHASE 1 TOTALS (SEE SHEET 44)							390	4		1	1273	247	113	64	0.68	3.56	17364	5815		3200			5557			
PHASE 2 TOTALS (SEE SHEET 45)							1278	3	1		1081	202	97	26	0.43	4.07	8406	1460		800			4930	290		
PHASE 3 TOTALS (SEE SHEET 46)							1207	4		1	1138	259	61	99	0.87	4.58	14641	500	132	4935	1		2646	212		
TOTALS CARRIED TO GENERAL SUMMARY							3260	14	1	2	3492	769	332	189	1.98	12.21	40411	7775	132	8935	1		16141	502		

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ITEM 615- PAVEMENT FOR MAINTAINING TRAFFIC, AS PER PLAN QUANTITIES

STATION	SIDE/ LOCATION	AVG WIDTH	LENGTH	PLAN AREA	615			
					PAVEMENT FOR M.O.T., CLASS A, AS PER PLAN (FULL DEPTH PAVEMENT AND REMOVAL)	PAVEMENT FOR M.O.T., CLASS A, AS PER PLAN (FULL DEPTH PAVEMENT TO REMAIN IN PLACE)	PAVEMENT FOR M.O.T., CLASS A, AS PER PLAN (FULL DEPTH PAVEMENT AND CROSS SLOPE RESTORATION)	PAVEMENT FOR M.O.T., CLASS A, AS PER PLAN (RESURFACING AND CROSS SLOPE RESTORATION)
FROM	TO	FT	FT	SF	SY	SY	SY	SY
EX R/W IR 77								
470+64.36	472+00.00	10.9	135.6	1472				164
472+00.00	475+15.50	12.0	315.5	3786				421
B.L. EX RELOC IR 77 SB								
1147+50.00	1147+85.85	24.5	35.9	878				98
1147+85.85	1151+01.30	28.4	315.4	8943				994
1151+01.30	1152+73.50	8.9	172.2	1524				170
1150+01.30	1154+76.70			7290	810			
1152+73.50	1154+76.70	9.5	203.2	1920				214
1154+76.70	1156+75.00	3.3	198.3	654		73		
1156+75.00	1159+34.75	2.7	259.8	688		77		
1159+34.75	1161+97.50	2.0	262.8	526		59		
1161+97.50	1168+79.50	10.0	682.0	6820				758
1168+79.50	1168+98.50	10.9	19.0	207				24
1168+98.50	1170+42.50	11.8	144.0	1692				188
1170+42.50	1170+60.00	10.9	17.5	190				22
1170+60.00	1173+00.00	10.0	240.0	2400				267
1173+00.00	1177+91.95	9	491.9	4428				492
1173+00.00	1177+91.95	2.9	491.9	1427			159	
EX R/W IR 77								
475+15.50	479+15.00	6.6	399.5	2643			294	
B.L. EX IR 77 NB								
484+22.00	497+70.00	8.0	1348.0	10784		1199		
497+70.00	497+78.00	11.4	8.0	91		11		
497+78.00	500+00.00	11.6	222.0	2575		287		
498+25.00	501+25.00	11.5	300.0	3450		384		
500+00.00	501+25.00	11.8	125.0	1475		164		
B.L. EX IR 77 SB								
502+13.50	502+79.68	9.1	66.2	602				67
502+13.50	502+79.68	2.9	66.2	192		22		
502+13.50	502+79.68	11.3	66.2	748		84		
507+00.00	507+25.00	4.2	25.0	105		12		
507+25.00	510+50.00	5.8	325.0	1885		210		
507+25.00	511+00.00	11.8	375.0	4425		492		
510+50.00	511+13.50	5.6	63.5	356		40		
510+50.00	511+13.50	8.9	63.5	565				63
511+00.00	513+00.00	11.8	200.0	2360			263	
511+00.00	513+00.00	11.8	200.0	2360				263
511+13.50	512+68.00	11.0	154.5	1692				188
512+68.00	512+98.50	10.2	30.5	311				35
512+23.50	513+13.84	2.0	90.3	181	21			
513+00.00	521+75.00	13.0	875.0	11375			1264	
513+00.00	521+75.00	13.0	875.0	11375			1264	
513+13.84	515+94.00	4.9	280.2	1373	153			
515+94.00	518+23.80	10.9	229.8	2505	279			
518+23.80	520+05.00	14.9	181.2	2691	299			
521+75.00	522+50.00	11.8	75.0	885	99			
521+75.00	522+50.00	11.8	75.0	885	99			
SUB-TOTALS					1760	3052	3306	4428
TOTAL CARRIED TO GENERAL SUMMARY					12546			

NOTE: PAYMENT FOR CROSS SLOPE RESTORATION AND PARTIAL REMOVAL SHALL BE INCLUDED UNDER ITEM 615 - ROADS FOR MAINTAINING TRAFFIC.

WORK ZONE GUARDRAIL

REFERENCE NO.	SHEET NO.	LOCATION	BEGIN STATION	END STATION	614			INFO. ONLY
					SPECIAL - WORK ZONE GUARDRAIL	BARRIER REFLECTOR, TYPE 2, ONE WAY	OBJECT MARKER, ONE WAY	ANCHOR ASSEMBLY, TYPE T
					FEET	EACH	EACH	EACH
PHASE 2								
GRI	55	B.L. EX IR 77 NB - NB MEDIAN SHOULDER	478+34.20	478+46.70	12.5	1	1	1
TOTALS CARRIED TO GENERAL SUMMARY					12.5	1	1	

DRAINAGE FOR M.O.T. QUANTITIES

REF. NO.	SHEET NO.	STATION	SIDE/ LOCATION	LENGTH	611		
					INLET RECONSTRUCTED TO GRADE	SLOTTED DRAIN, TYPE 1	CATCH BASIN, NO. 6
		FROM	TO	EACH	FT	FT	
		EX R/W IR 77					
D1	72	472+99.92	IR 77 MEDIAN - SOUTH CROSSOVER		1		
		EX R/W IR 77 B.L. EX IR 77 SB					
D2	72	472+99.92	1152+73.50	IR 77 MEDIAN - SOUTH CROSSOVER	386	386	
		B.L. EX IR 77 SB					
D3	73	514+75.62	IR 77 MEDIAN - NORTH CROSSOVER		1		
D4	73	516+00.00	IR 77 MEDIAN - NORTH CROSSOVER			1	
D5	73	516+00.00	521+38.95	IR 77 MEDIAN - NORTH CROSSOVER	539	539	
D6	73	521+38.95	IR 77 MEDIAN - NORTH CROSSOVER		1		
TOTALS CARRIED TO GENERAL SUMMARY					3	925	1

PREMARKING QUANTITIES

PHASE NO.	LOCATION	614 CLASS III - PAINT				
		WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT (WHITE)	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT (YELLOW)	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT (WHITE)	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT (WHITE)	WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT (WHITE)
		MILE	MILE	MILE	FEET	FEET
5	IR 77 NB	1.69	1.61	3.29	2431	1480
5	IR 77 SB	1.59	1.45	3.59	3444	974
5	SR 21 NB		0.04			
5	SR 21 SB		0.05			
TOTALS CARRIED TO GENERAL SUMMARY		6.43	6.88	5875	2454	

MAINTENANCE OF TRAFFIC SUBSUMMARY

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SHEET NUM.											PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
21	22	23	27	89	90	91	142	145	150	OFFICE CALCS	01/IMS/BR	02/IMS/OT	03/NHS/CV						
DRAINAGE																			
							0.6						0.6	602	20000	0.6	CY	CONCRETE MASONRY	
								1,210			1,210			605	11110	1,210	FT	6" SHALLOW PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.31	
		200						390			590			605	13410	590	FT	6" UNCLASSIFIED PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.31	
								1,091			1,091			605	14020	1,091	FT	6" BASE PIPE UNDERDRAINS WITH GEOTEXTILE FABRIC, 707.31	
		20						40			60			611	00510	60	FT	6" CONDUIT, TYPE F FOR UNDERDRAIN OUTLETS	
											127			611	00900	127	FT	6" CONDUIT, TYPE B	
					289								289	611	04400	289	FT	12" CONDUIT, TYPE B	
						69							69	611	05900	69	FT	15" CONDUIT, TYPE B	
					4								4	611	05900	4	FT	15" CONDUIT, TYPE B, 706.02	
					8								8	611	05900	8	FT	15" CONDUIT, TYPE B, 707.11	
													14	611	05900	14	FT	15" CONDUIT, TYPE B, 707.33	
						4					4			611	08900	4	FT	21" CONDUIT, TYPE B, 706.01	
						130					130			611	10600	130	FT	24" CONDUIT, TYPE C	
						74					74			611	12100	74	FT	27" CONDUIT, TYPE C	
							17						17	611	13200	17	FT	30" CONDUIT, TYPE A, 706.02	
								1,092			1,092			611	13600	1,092	FT	30" CONDUIT, TYPE C	
							136						136	611	96600	136	FT	CONDUIT, BORED OR JACKED, 30", TYPE A, 748.06	
					1								1	611	98150	1	EACH	CATCH BASIN, NO. 3	
					1								1	611	98300	1	EACH	CATCH BASIN, NO. 5	
						5					5			611	98341	5	EACH	CATCH BASIN, NO. 5A	
						1					1			611	98350	1	EACH	CATCH BASIN, NO. 5A, AS PER PLAN	
						1							1	611	98470	1	EACH	CATCH BASIN, NO. 2-2B	
					1								1	611	98634	1	EACH	CATCH BASIN RECONSTRUCTED TO GRADE	
					2								2	611	98791	2	EACH	INLET, NO. 3A, AS PER PLAN	
					1						1			611	99100	1	EACH	INLET, NO. 3 FOR SINGLE SLOPE BARRIER, TYPE B1	
					1								1	611	99155	1	EACH	INLET RECONSTRUCTED TO GRADE, AS PER PLAN	
						1	1	1			1		1	611	99574	2	EACH	MANHOLE, NO. 3	
					1								1	611	99660	1	EACH	MANHOLE RECONSTRUCTED TO GRADE	
		2									2			611	99710	2	EACH	PRECAST REINFORCED CONCRETE OUTLET	
PAVEMENT																			
			124,944								124,944			254	01000	124,944	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1 1/2"	
										1,797	1,797			254	01001	1,797	SY	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, 3" AVG.	
	23									987	1,010			302	56000	1,010	CY	ASPHALT CONCRETE BASE, PG64-22, (449)	
	15									826	841			304	20000	841	CY	AGGREGATE BASE	
										126	126			407	13900	126	GAL	TACK COAT, 702.13	
108	8		10,620							525	11,261			407	20000	11,261	GAL	NON-TRACKING TACK COAT	
										15	15			408	10001	15	GAL	PRIME COAT, AS PER PLAN	
										69	69			441	70801	69	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (449), (UNDER GUARDRAIL), AS PER PLAN	
			5,206							236	5,442			442	10001	5,442	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, PG76-22M	
										333	333			442	10080	333	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)	
	4										4			442	22101	4	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (449), AS PER PLAN, PG76-22M	
50											50			442	22200	50	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 9.5 MM, TYPE A (449)	
	5										5			442	22300	5	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (449)	
				484		18					502			609	24510	502	FT	CURB, TYPE 4-C	
21											21			617	10101	21	CY	COMPACTED AGGREGATE, AS PER PLAN	
										375	375			617	20000	375	SY	SHOULDER PREPARATION	
											6.28			618	40600	6.28	MILE	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	

GENERAL SUMMARY

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SHEET NUM.				PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	DAM	CHECKED	DCJ
148	150	159	160	01/IMS/B R	02/IMS/ OT	03/NHS/ CV										
											LIGHTING					
							625	00470	46	EACH	CONNECTION, UNFUSED BOLTED					
							625	00480	18	EACH	CONNECTION, UNFUSED PERMANENT					
				900			625	23200	5,325	FT	NO. 4 AWG 2400 VOLT DISTRIBUTION CABLE					
							625	23300	1,365	FT	NO. 2 AWG 2400 VOLT DISTRIBUTION CABLE					
				330			625	23400	330	FT	NO. 10 AWG POLE AND BRACKET CABLE					
							625	25400	1,233	FT	CONDUIT, 2", 725.04					
							625	25902	146	FT	CONDUIT, JACKED OR DRILLED, 725.04, 3"					
							625	27503	10	EACH	LUMINAIRE, UNDERPASS, SOLID STATE (LED), AS PER PLAN	159				
							625	29002	444	FT	TRENCH, 24" DEEP					
							625	29900	19	EACH	JUNCTION BOX					
							625	30706	7	EACH	PULL BOX, 725.08, 24"					
							625	31510	12	EACH	PULL BOX REMOVED					
							625	33000	2	EACH	STRUCTURE GROUNDING SYSTEM					
							625	34001	1	EACH	POWER SERVICE, AS PER PLAN	159				
							625	36011	444	FT	UNDERGROUND WARNING/MARKING TAPE, AS PER PLAN	159				
				LS			SPECIAL	62540000	LS		MAINTAIN EXISTING LIGHTING	159				
							625	75506	6	EACH	LUMINAIRE REMOVED					
							625	75800	2	EACH	DISCONNECT CIRCUIT					
				1			625	76000	1	EACH	ARC FLASH CALCULATIONS AND LABEL (EXISTING CC-A)					
							625	98000	2	EACH	LIGHTING, MISC.: DISCONNECT SWITCH	159				
											TRAFFIC CONTROL					
							621	00100	437	EACH	RPM					
							621	54000	437	EACH	RAISED PAVEMENT MARKER REMOVED					
							625	32000	1	EACH	GROUND ROD					
							626	00102	4	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY					
							626	00102	11	EACH	BARRIER REFLECTOR, TYPE 1, BI-DIRECTIONAL					
							626	00110	24	EACH	BARRIER REFLECTOR, TYPE 2, ONE WAY					
							626	00110	7	EACH	BARRIER REFLECTOR, TYPE 2, BI-DIRECTIONAL					
							630	02100	76.5	FT	GROUND MOUNTED SUPPORT, NO. 2 POST					
							630	03100	36	FT	GROUND MOUNTED SUPPORT, NO. 3 POST					
							630	06400	77.4	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7					
							630	08600	3	EACH	SIGN POST REFLECTOR					
							630	09000	4	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION					
							630	72420	1	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-15.116, DESIGN 2					
							630	80100	23.3	SF	SIGN, FLAT SHEET					
							630	80100	2	SF	SIGN, FLAT SHEET, 730.20					
							630	84000	1	EACH	CONCRETE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION, TYPE TC-21.40					
							630	84500	4	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION					
							630	84510	1	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION					
							630	84900	4	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL					
							630	85100	6	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION					
							630	85600	2	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION					
							630	86002	8	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL					
							630	86102	2	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL					
							630	86292	2	EACH	REMOVAL OF GROUND MOUNTED WOODEN BOX BEAM SUPPORT AND DISPOSAL					
							630	87100	3	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION					
							630	89802	1	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND DISPOSAL, TYPE TC-7.65					
							646	10620	6.37	FT	CHEVRON MARKING					
							807	12010	6.43	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6"					
							807	12110	6.88	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"					
							807	12310	5.875	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12"					
							807	12410	2,454	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 6"					
							850	10010	12.7	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)					
							850	10110	2,454	FT	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)					
							850	10130	5,875	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)					

GENERAL SUMMARY

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SHEET NUM.								PART.			ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED	DAM	CHECKED	DCJ
25	26	28	29	47	48	01/IMS/B R	02/IMS/ OT	03/NHS/ CV												
														STRUCTURE OVER 20 FOOT SPAN (SFN 7704039) ESTIMATED QUANTITIES	172					
														STRUCTURE OVER 20 FOOT SPAN (SFN 7704047) ESTIMATED QUANTITIES	226					
														MAINTENANCE OF TRAFFIC						
									925	925	611	97000	925	FT	SLOTTED DRAIN, TYPE 1					
									1	1	611	98370	1	EACH	CATCH BASIN, NO. 6					
									3	3	611	99154	3	EACH	INLET RECONSTRUCTED TO GRADE					
			120						120	120	614	11111	120	HOURL	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE, AS PER PLAN	29				
									3,260	3,260	614	11630	3,260	FT	INCREASED BARRIER DELINEATION					
									12.5	12.5	SPECIAL	61412200	12.5	FT	WORK ZONE GUARDRAIL					
									14	14	614	12380	14	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)					
									1	1	614	12390	1	EACH	WORK ZONE IMPACT ATTENUATOR, OVER 24* AND LESS THAN 36* WIDE HAZARDS, (UNIDIRECTIONAL)					
LS									2	2	614	12420	LS	LS	DETOUR SIGNING					
4									2	2	614	12440	2	EACH	WORK ZONE SIGN SUPPORT					
									4	4	614	12484	4	EACH	WORK ZONE INCREASED PENALTIES SIGN					
									2	2	614	12756	2	EACH	WORK ZONE CROSSOVER LIGHTING SYSTEM					
									3,492	3,492	614	12801	3,492	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	27				
									769	769	614	13310	769	EACH	BARRIER REFLECTOR, TYPE 1, ONE WAY					
									87	88	614	13312	88	EACH	BARRIER REFLECTOR, TYPE 2, ONE WAY					
									87	420	614	13350	420	EACH	OBJECT MARKER, ONE WAY					
									189	189	614	13360	189	EACH	OBJECT MARKER, TWO WAY					
		100,000							100,000	100,000	614	18000	100,000	EACH	MAINTAINING TRAFFIC, MISC.: BRIDGE DECK AND PAVEMENT PATCHING	28				
		68							68	68	614	18601	68	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	26				
									1.98	1.98	614	20367	1.98	MILE	WORK ZONE LANE LINE, CLASS I, 6", 648, AS PER PLAN	28				
									6.88	6.88	614	20560	6.88	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT					
									12.21	12.21	614	22337	12.21	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 648, AS PER PLAN	28				
									6.43	6.43	614	22360	6.43	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT					
									40,411	40,411	614	23151	40,411	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 648, AS PER PLAN	28				
									5,875	5,875	614	23690	5,875	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT					
									7,775	7,775	614	24143	7,775	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 648, AS PER PLAN	28				
									2,454	2,454	614	24612	2,454	FT	WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT					
									132	132	614	98100	132	FT	WORK ZONE PAVEMENT MARKING, MISC.: GORE MARKING, CLASS II, 24", 648	28				
									LS	LS	615	10001	LS	LS	ROADS FOR MAINTAINING TRAFFIC, AS PER PLAN	28				
									12,546	12,546	615	20001	12,546	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	28				
									31	31	616	10000	31	MGAL	WATER					
31									8,935	8,935	622	41011	8,935	FT	PORTABLE BARRIER, 50", AS PER PLAN	25				
									1	1	622	41050	1	EACH	PORTABLE BARRIER, "Y" CONNECTOR					
									16,141	16,141	622	41100	16,141	FT	PORTABLE BARRIER, UNANCHORED					
									502	502	622	41110	502	FT	PORTABLE BARRIER, ANCHORED					
		102							102	102	808	18700	102	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY					
														INCIDENTALS						
									LS	LS	SPECIAL	10899000	LS		CPM PROGRESS SCHEDULE					
									LS	LS	614	11000	LS	LS	MAINTAINING TRAFFIC					
									24	24	619	16020	24	MNTH	FIELD OFFICE, TYPE C					
									LS	LS	623	10000	LS	LS	CONSTRUCTION LAYOUT STAKES AND SURVEYING					
									LS	LS	624	10000	LS	LS	MOBILIZATION					

GENERAL SUMMARY

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SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	LENGTH (FT)	646			807			618	RPM SPACING	621				BR SPACING	626				850						
			FROM	TO			CHEVRON MARKING	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6" (W)	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6" (Y)	WET REFLECTIVE EPOXY PAVEMENT MARKING, LAINE LINE, 6" (W)	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12" (W)	WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 6" (W)	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)		RPM (ONE WAY (W))	RPM (TWO WAY (W/R))	RAISED PAVEMENT MARKER REMOVED (ONE WAY (W))	RAISED PAVEMENT MARKER REMOVED (TWO WAY (W/R))		BARRIER REFLECTOR, TYPE 1, ONE WAY	BARRIER REFLECTOR, TYPE 1, BI-DIRECTIONAL (Y/Y)	BARRIER REFLECTOR, TYPE 2, ONE WAY	BARRIER REFLECTOR, TYPE 2, BI-DIRECTIONAL (W/R)	BRIDGE & APPROACH SLAB LENGTH	GROOVING FOR 6 INCH RECESSED PAVEMENT MARKING, (ASPHALT)	GROOVING FOR 6 INCH RECESSED PAVEMENT MARKING, (ASPHALT)	GROOVING FOR 12 INCH RECESSED PAVEMENT MARKING, (ASPHALT)			
							FEET	MILE	MILE	MILE	FEET	FEET	MILE		EACH	EACH	EACH	EACH		EACH	EACH	EACH	EACH	MILE	MILE	FT	FT			
152	YE1	CL EX. R/W IR 77			CL	0																			0.00					
152	YE2	BL RELOC. IR 77 SB			CL	0																				0.00				
152-155	YE3	CL EX. R/W IR 77	458+00.00	535+85.00	CL	7609																			0.08	1.37				
151-153	YE4	CL EX. R/W IR 77 TO BL EX. IR 77 NB	448+85.00	484+21.00	RT.	3536																			0.04	0.63				
153	YE5	BL EX. IR 77 NB			LT.	0																				0.00				
153-155	YE6	BL EX. IR 77 NB TO CL EX. R/W IR 77	484+22.00	532+05.00	RT.	4951																			0.04	0.90				
154	YE7	BL EX. SR 21 NB	518+00.00	520+05.00	RT.	205																				0.04				
154	YE8	CL EX. R/W IR 77			LT.	0																				0.00				
155	YE9	CL EX. R/W IR 77			LT.	0																				0.00				
154	YE10	CL EX. R/W SR21	507+00.00	509+52.00	LT.	252																				0.05				
151-154	WE1	CL EX. R/W IR 77 TO BL EX. IR 77 SB	452+12.36	520+05.00	RT.	6961		1.32																	0.08	1.24				
152-154	WE2	CL EX. R/W IR 77 TO BL RELOC. IR 77 SB	458+00.00	1161+97.50	LT.	2811		0.53																	0.04	0.50				
153-154	WE3	BL RELOC. IR 77 SB TO BL EX. IR 77 SB	1161+98.00	512+99.00	LT.	2679		0.51																	0.04	0.47				
154-155	WE4	CL EX. R/W SR 21 TO CL EX. R/W IR 77	507+00.00	535+85.00	LT.	2885		0.55																		0.55				
151	WE5	CL EX. R/W IR 77	448+85.00	451+11.03	RT.	226		0.04																		0.04				
154-155	WE6	BL EX. SR 21 NB TO CL EX. R/W IR 77	518+00.00	532+05.00	RT	1746		0.33																		0.33				
151-155	LL1	CL EX. R/W IR 77	448+85.00	532+05.00	RT.	8488			1.61			120	72	72											0.08	1.53				
152-154	LL2	CL EX. R/W IR 77 TO BL EX. IR 77 SB	448+85.00	512+00.00	RT.	6483			1.23			120	55	55											0.08	1.15				
152-155	LL3	CL EX. R/W IR 77	458+00.00	535+85.00	LT.	8119			1.54			120	69	69											0.07	1.47				
152-155	LL4	CL EX. R/W IR 77	458+00.00	535+85.00	LT.	8119			1.54			120	69	69											0.07	1.47				
154-155	LL5	BL EX. SR 21 NB TO CL EX. R/W IR 77	518+00.00	532+05.00	RT.	1404			0.27			120	13	13												0.27				
154-155	LL6	CL EX. R/W IR 77	522+59.00	532+05.00	RT.	946			0.18			120	9	9												0.18				
154-155	LL7	CL EX. R/W SR 21 TO CL EX. R/W IR 77	507+00.00	533+84.00	LT.	2684			0.51			120	23	23												0.51				
152-153	CH1	BL EX. IR 77 NB	476+34.00	484+22.00	RT.	788				788		40	20	20													788			
152-153	CH2	BL EX. IR 77 NB	478+42.00	484+21.00	LT.	579				579		40	14	14													579			
152-153	CH3	BL RELOC. IR 77 SB	1153+76.00	1161+98.00	LT.	822				822																	822			
154	CH4	BL RELOC. IR 77 SB TO CL EX. R/W IR 77	520+05.00	522+59.00	RT.	595				595		40	15	15													595			
154	CH5	BL EX. SR 21 SB TO CL EX. R/W IR 77	520+05.00	522+59.00	RT.	595				595		40	15	15													595			
154	CH6	CL EX. R/W SR 21	509+52.00	513+64.00	LT.	412				412		40	10	10													412			
154	CH7	BL EX. IR 77 SB	512+99.00	517+07.00	LT.	408				408		40	10	10													408			
155	CH8	CL EX. R/W IR 77	533+84.00	535+85.00	LT.	201				201		40	5	5													201			
155	CH9	CL EX. R/W IR 77	533+84.00	535+85.00	LT.	201				201		40	5	5													201			
151	CH10	CL EX. R/W IR 77	448+85.00	451+12.36	RT.	227				227		40	6	6													227			
151	CH11	CL EX. R/W IR 77	448+85.00	451+11.03	RT.	226				226		40	6	6													226			
152-153	CH12	BL RELOC. IR 77 SB	1153+76.65	1161+97.50	LT.	821				821		40	21	21													821			
152	DL1	CL EX. R/W IR 77 TO BL EX. IR 77 NB	461+54.08	476+34.00	RT.	1480					1480																1480			
152	DL2	BL RELOC. IR 77 SB	1144+02.00	1153+76.00	LT.	974					974																974			
152-153	CM1	BL EX. IR 77 NB	478+42.00	484+22.00	LT.	211	260																							
154	CM2	BL EX. IR 77 SB	512+99.00	517+07.50	LT.	160	160																							
154	CM3	BL EX. IR 77 SB TO CL EX. R/W IR 77	520+05.00	522+59.00	RT.	217	217																							
SUBTOTAL CARRIED TO SHEET 150							637	6.43	6.88	5875	2454				437	437											12.70	2454	5875	

PAVEMENT MARKING SUBSUMMARY

SUM-77-22.30

CALCULATED
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MAM

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SHEET NO.	REFERENCE NO.	LOCATION	STATION		SIDE	LENGTH (FT)	646		807					618	RPM SPACING	621				BR SPACING	626				850														
			FROM	TO			FT	MILE	MILE	MILE	FT	FT	MILE	EACH		EACH	EACH	EACH	EACH		EACH	EACH	EACH	MILE	MILE	FT	FT												
																												WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6" (W)	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6" (Y)	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6" (W)	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12" (W)	WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 6" (W)	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	RPM (ONE WAY (W))	RPM (TWO WAY (W/R))	RAISED PAVEMENT MARKER REMOVED (ONE WAY (W))	RAISED PAVEMENT MARKER (TWO WAY (W/R))	BARRIER REFLECTOR, TYPE 1, ONE WAY	BARRIER REFLECTOR, TYPE 1, BI-DIRECTIONAL (Y/Y)
152-153	RS1	CL EX. R/W IR 77 TO BL EX. IR 77 NB	461+35.63	502+70.00	RT.	4134							0.78																										
152-154	RS2	CL EX. R/W IR 77 TO BL EX. RELOC. IR 77 SB	461+77.00	1161+97.50	LT.	2434							0.46																										
152	RS3	CL EX. R/W IR 77 TO BL EX. RELOC. IR 77 SB	461+60.59	1146+84.00	RT.	937							0.18																										
152-153	RS4	CL EX R/W IR 77 TO BL EX. IR 77 NB	461+51.72	484+21.00	RT.	2269							0.43																										
152-153	RS5	BL EX. RELOC. IR 77 SB TO BL EX. IR 77 SB	1146+84.00	503+64.00	LT.	3258							0.62																										
153	RS6	BL EX. RELOC. IR 77 SB TO BL EX. IR 77 SB	1161+00.00	503+19.00	LT.	1797							0.34																										
153	RS7	BL EX. IR 77 NB	483+23.00	502+29.00	BL.	1906							0.36																										
153-155	RS8	BL EX. IR 77 NB TO CL R/W IR 77	504+39.00	532+05.00	RT.	2934							0.56																										
153-154	RS9	BL EX. IR 77 NB TO CL R/W IR 77	505+00.00	519+17.00	RT.	1585							0.30																										
153-154	RS10	BL EX. IR 77 SB	505+20.00	513+99.00	LT.	879							0.17																										
153-155	RS11	BL EX. IR 77 SB TO CL R/W IR 77	505+72.00	535+85.00	LT.	3354							0.64																										
154-155	RS12	CL EX. R/W SR 21 TO CL EX R/W IR 77	507+00.00	535+85.00	LT.	3226							0.61																										
154	RS13	CL EX. R/W IR 77			LT.	0							0.00																										
155	RS14	CL EX. R/W IR 77	534+85.00	535+85.00	LT.	100							0.02																										
155	RS15	CL EX. R/W IR 77			LT.	0							0.00																										
151-152	RS16	CL EX. R/W IR 77	448+85.00	459+58.10	RT.	1073							0.20																										
151-152	RS17	CL EX. R/W IR 77	450+12.35	459+41.99	RT.	930							0.18																										
151	RS18	CL EX. R/W IR 77	448+85.00	451+08.91	RT.	224							0.04																										
152	RS19	CL EX. R/W IR 77	458+00.00	459+82.42	LT.	182							0.03																										
152	RS20	CL EX. R/W IR 77	458+00.00	459+66.95	LT.	167							0.03																										
154-155	RS21	BL EX. SR 21 NB TO CL EX. R/W IR 77	518+00.00	532+05.00	RT	1746							0.33																										
152	BR1	CL EX. R/W IR 77 TO BL EX. IR 77 NB PROP NB BARR. & GR	472+00.00	478+51.00	RT.	338													100			5		4															
152	BR2	BL EX. RELOC. IR 77 SB	1154+64.20	1154+76.7	RT	6													100				1																
153-154	BR3	PROP NB RT GR & BR	500+61.50	511+77.36	RT	1116													100	2			10																
153	BR4	BR MEDIAN RAIL & WALL	502+14.66	504+22.19	LT.	208													100			4																	
153-154	BR5	PROP SB LT GR & BR	502+74.42	511+15.42	LT	841													100	2			8																
153	BR6	PROP GR RT & CONC. BARRIER (SR 21 NB)	501+54.78	505+56.00	RT.	401													100			2		3															
154	BR7	PROP NB GR	512+21.50	515+92.00	RT.	371													100				5																
TOTALS THIS SHEET													6.28									4		11		24		7											
							149	637	6.43	6.88	5875	2454				437		437												12.70	2454	5875							
TOTALS CARRIED TO GENERAL SUMMARY								637	6.43	6.88	5875	2454	6.28				437		437				4		11		24		7		12.70	2454	5875						

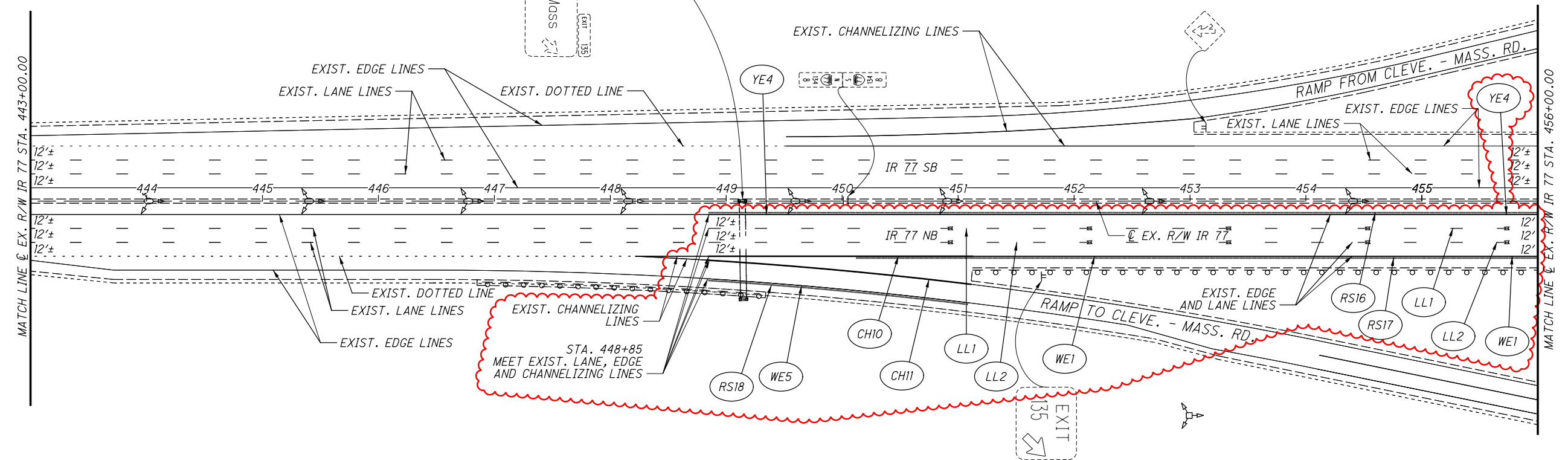
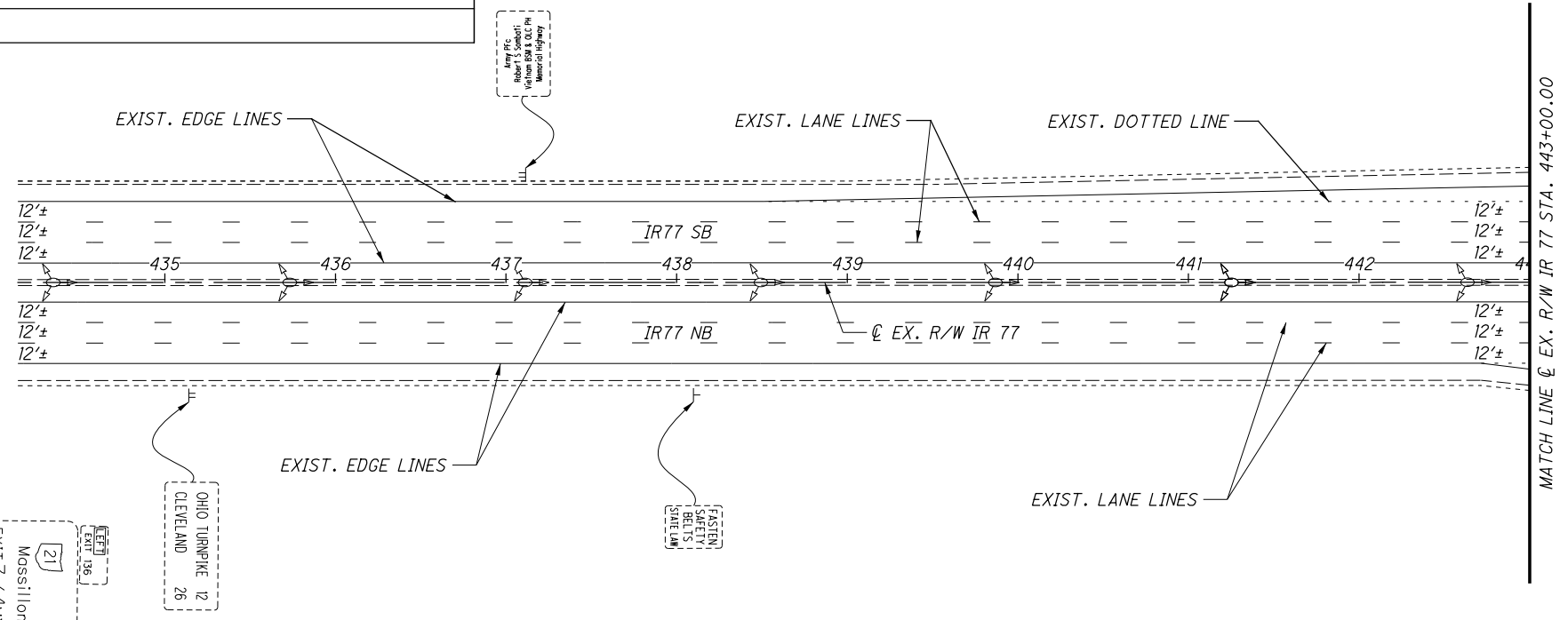
PAVEMENT MARKING SUBSUMMARY

SUM-77-22.30

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ODOT LINE SPECIFICATIONS AND LEGEND			
ITEM 807	(YE) EDGE LINE, YELLOW, 6"	(LL) LANE LINE WHITE, 6"	
	(WE) EDGE LINE, WHITE, 6"	(CH) CHANNELIZING LINE, WHITE, 12"	
ITEM 646	(DL) DOTTED LINE, WHITE, 6"	(CM) CHEVRON MARKING, WHITE, 24"	
ITEM 621	(RPM) RPM, ONE-WAY, WHITE	(RPM) RPM, TWO-WAY, WHITE/RED	
ITEM 626	(BR) BARRIER RELECTORS		
ITEM 618	(RS) RUMBLE STRIPS, SHOULDER		

SIGN LEGEND	
(X) REMOVE AND DISPOSE OF EXISTING SIGN	() EXISTING SIGN TO REMAIN
() PROPOSED SIGN	() REMOVE & RESET SIGN ON NEW SUPPORTS



CALCULATED VND CHECKED MAM

TRAFFIC CONTROL PLAN
STA. 435+00 TO STA. 456+00

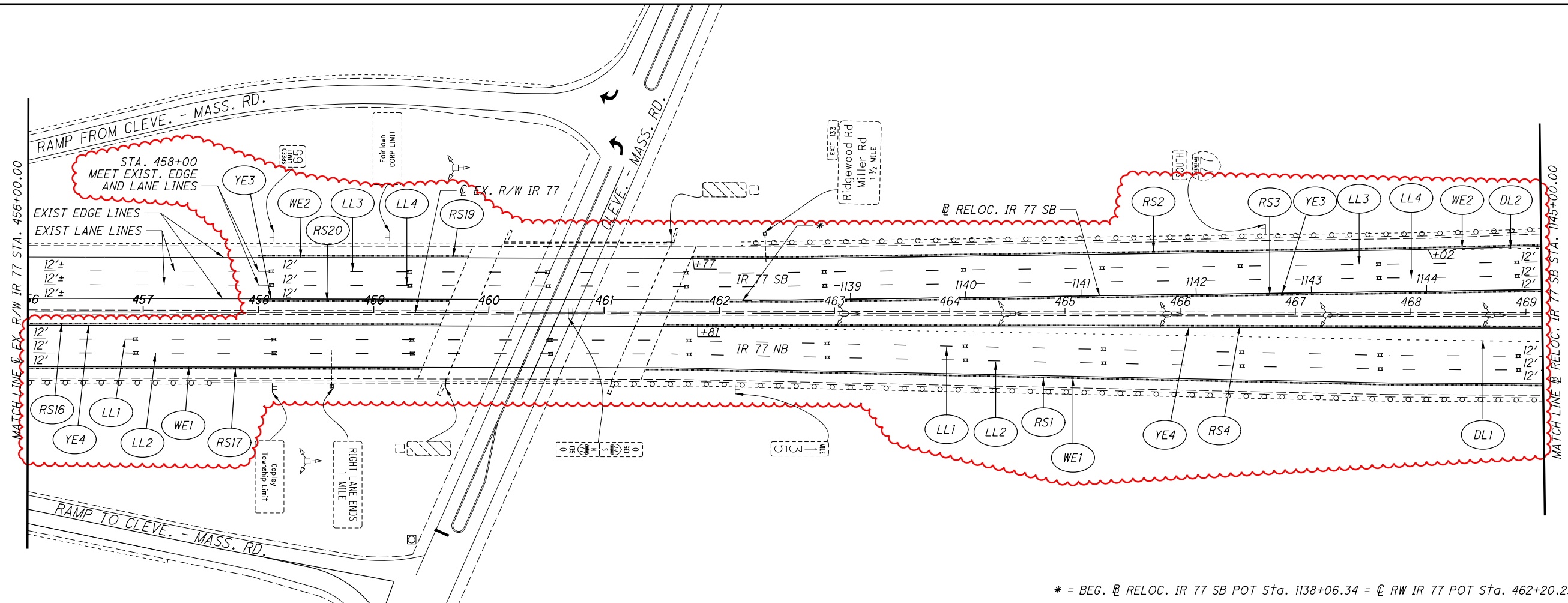
SUM-77-22.30
151
284

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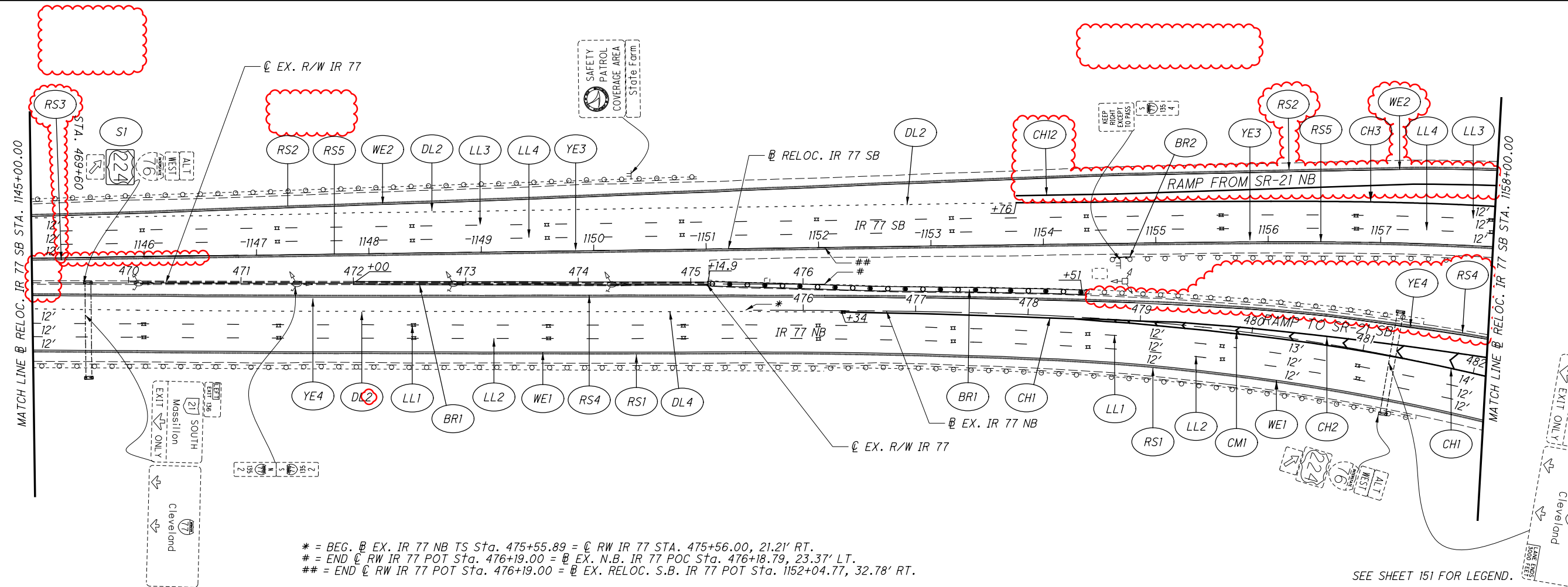


TRAFFIC CONTROL PLAN
STA. 456+00 TO STA. 1158+00

SUM-77-22.30



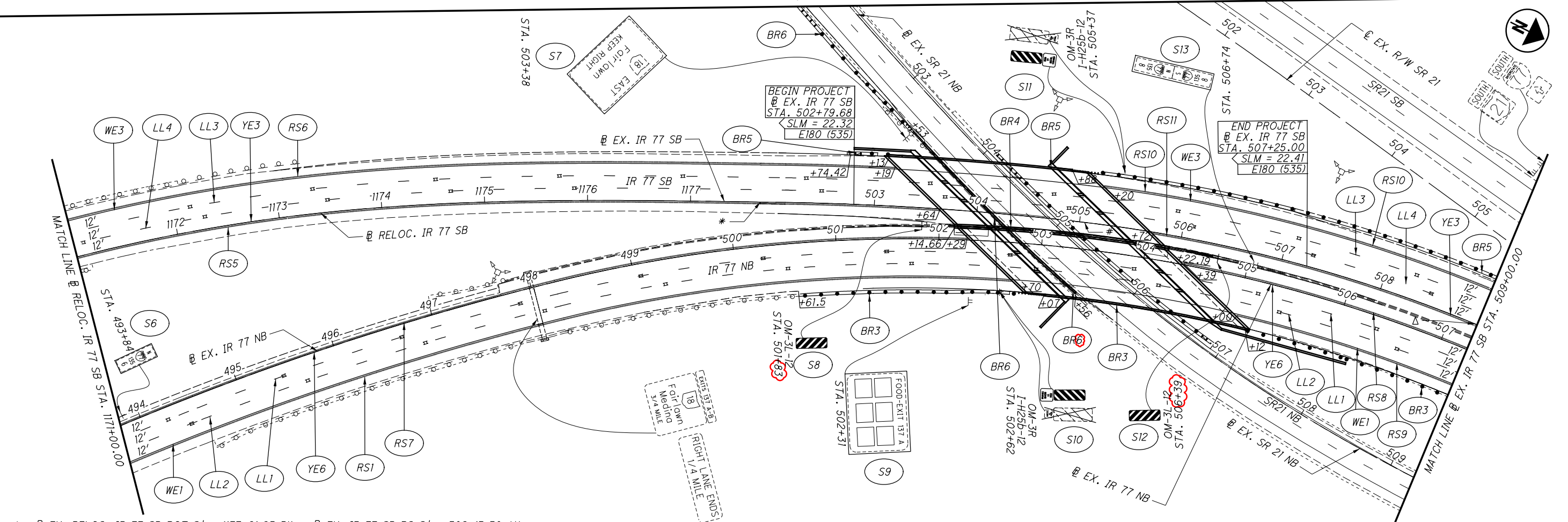
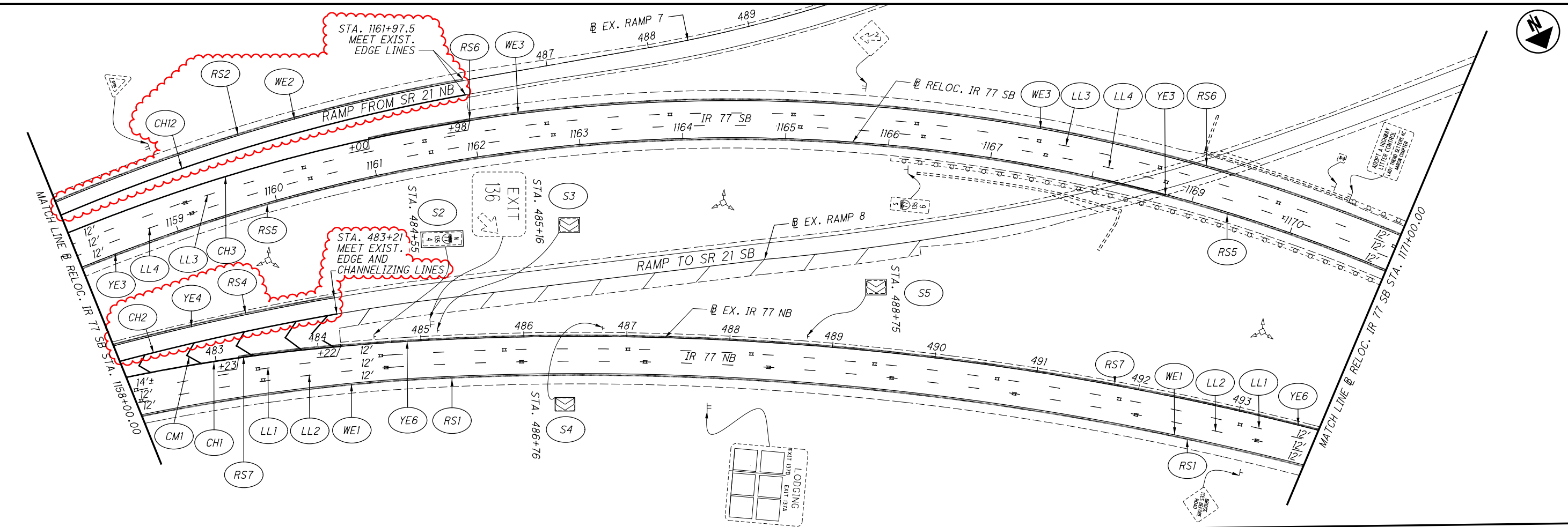
* = BEG. @ RELOC. IR 77 SB POT Sta. 1138+06.34 = @ RW IR 77 POT Sta. 462+20.23, 10.83' LT.



* = BEG. @ EX. IR 77 NB TS Sta. 475+55.89 = @ RW IR 77 STA. 475+56.00, 21.21' RT.
 # = END @ RW IR 77 POT Sta. 476+19.00 = @ EX. N.B. IR 77 POC Sta. 476+18.79, 23.37' LT.
 ## = END @ RW IR 77 POT Sta. 476+19.00 = @ EX. RELOC. S.B. IR 77 POT Sta. 1152+04.77, 32.78' RT.

SEE SHEET 151 FOR LEGEND.

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* = EX. RELOC. IR 77 SB POT Sta. 1177+91.95 BK. = EX. IR 77 SB PC Sta. 502+13.50 AH.
 # = EX. IR 77 SB PCC Sta. 505+04.94 = EX. IR 77 NB PCC Sta. 503+38.84, 26.00' LT.
 Δ = EX. IR 77 SB CS Sta. 508+97.59 = EX. IR 77 NB PT Sta. 507+24.36, 26.00' LT.

SEE SHEET 151 FOR LEGEND

CALCULATED VND CHECKED MAM

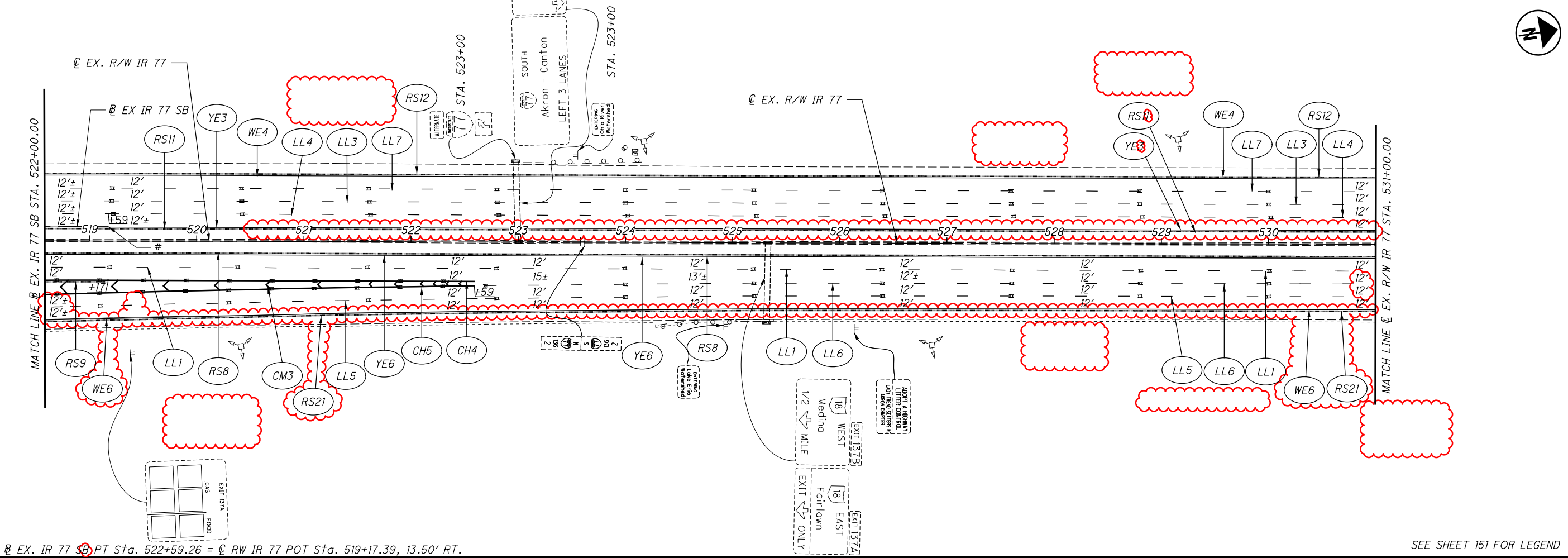
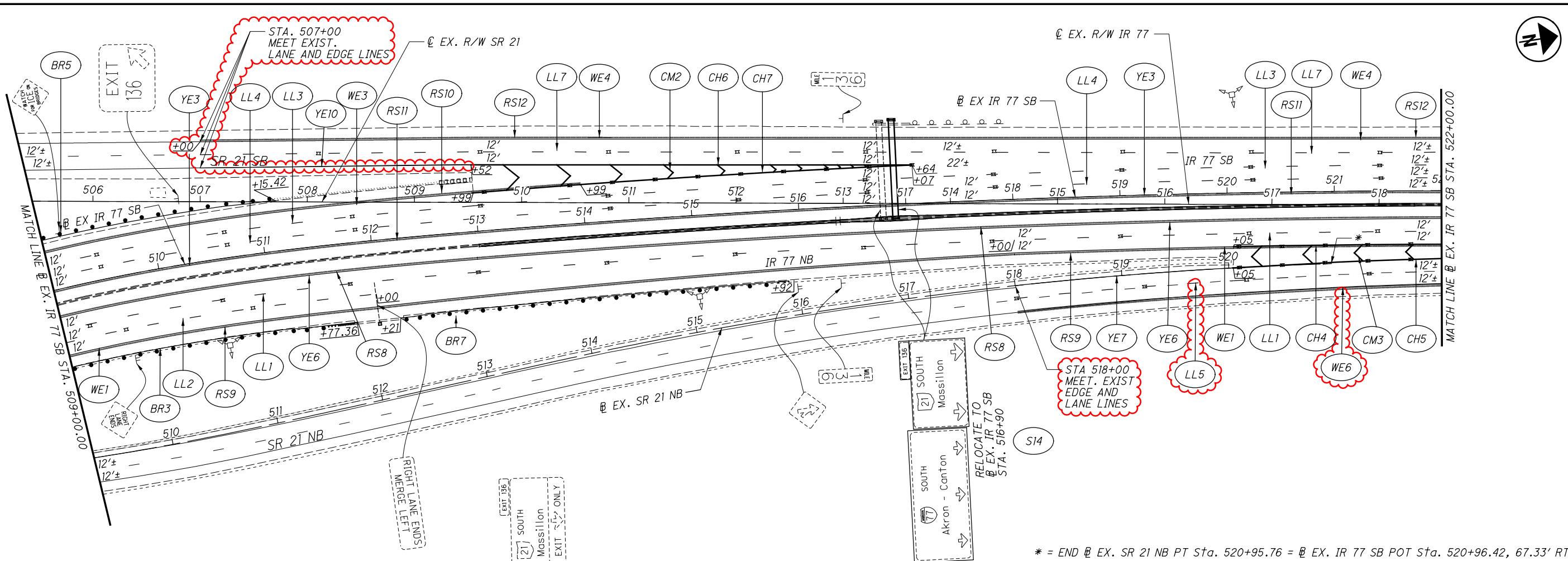
0 50 100
 25
 HORIZONTAL SCALE IN FEET

TRAFFIC CONTROL PLAN
 STA. 1158+00 TO STA. 509+00

SUM-77-22.30

153
 284

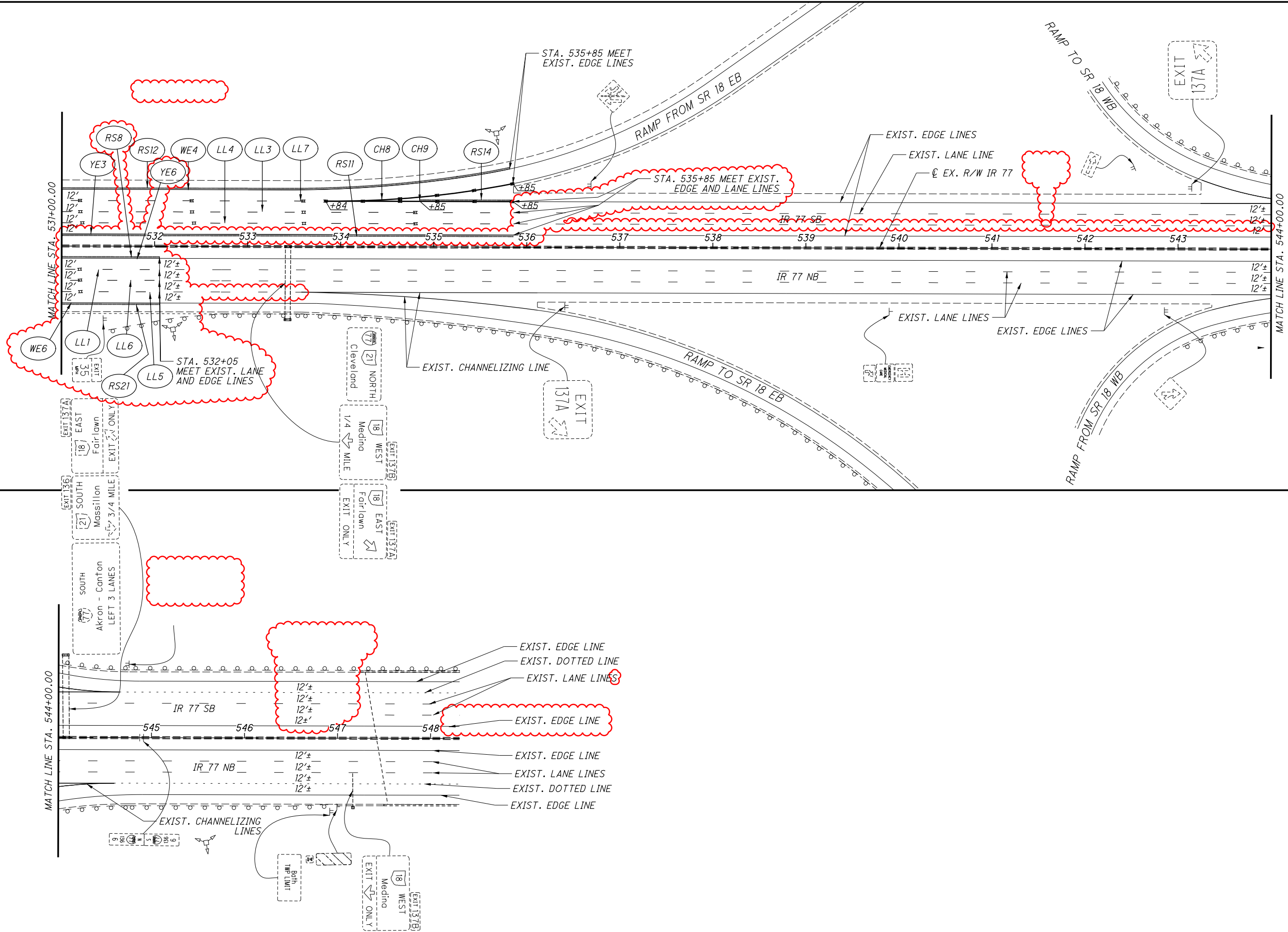
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TRAFFIC CONTROL PLAN
STA. 509+00 TO STA. 531+00

SUM-77-22.30

SEE SHEET 151 FOR LEGEND



CALCULATED	VND
CHECKED	MAM



TRAFFIC CONTROL PLAN
STA. 531+00 TO STA. 548+00

SUM-77-22.30

SEE SHEET 151 FOR LEGEND

