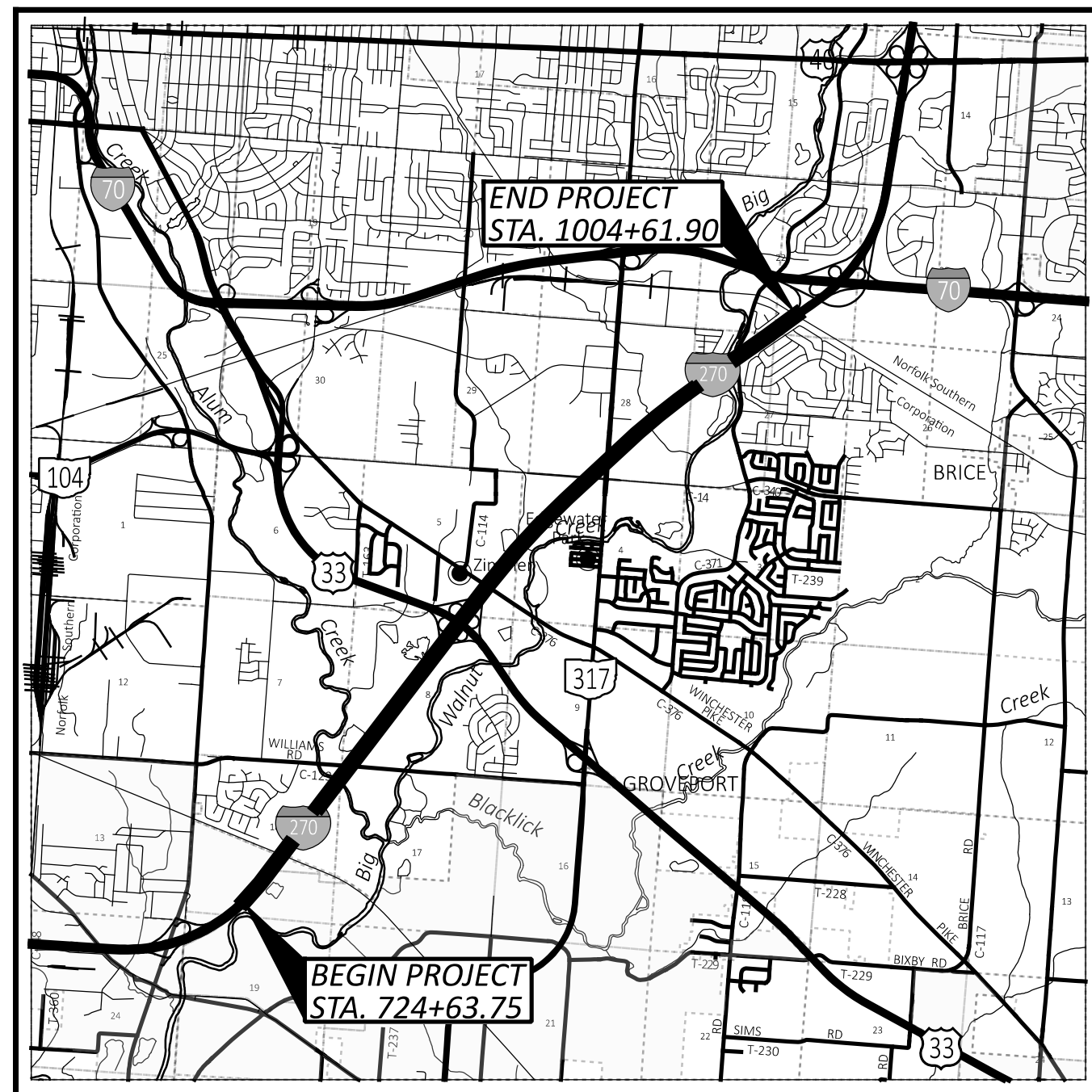


STATE OF OHIO DEPARTMENT OF TRANSPORTATION

FRA-270-43.18

CITY OF COLUMBUS, VILLAGE OF OBETZ
TRURO TOWNSHIP, MADISON TOWNSHIP
FRANKLIN COUNTY



LOCATION MAP

LATITUDE: 39°54'29"N LONGITUDE: 82°53'34"



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

DESIGN DESIGNATION

CURRENT ADT (2023)	108000
DESIGN YEAR ADT (2035)	121000
DESIGN HOURLY VOLUME (2035)	14000
DIRECTIONAL DISTRIBUTION	68%
TRUCKS (24 HOUR B&C)	12960
DESIGN SPEED	65 MPH
LEGAL SPEED	65 MPH
DESIGN FUNCTIONAL CLASSIFICATION:	
01 INTERSTATE (URBAN)	
NHS PROJECT	YES

DESIGN EXCEPTIONS

NONE REQUIRED

ADA DESIGN WAIVERS

NONE REQUIRED

UNDERGROUND UTILITIES
Contact Two Working Days
Before You Dig

OHIO811.org
Before You Dig

OHIO811, 8-1-1, or 1-800-362-2764
(Non members must be called directly)

PLAN PREPARED BY:
E.L. ROBINSON
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STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS	
BP-2.5	1/21/22	MH-3	7/21/23	MT-95.30	7/19/19	TC-42.20	10/18/13	800-2023	1/19/24		
BP-3.1	1/21/22			MT-95.40	7/21/23	TC-52.20	1/15/21	808	1/18/19		
BP-3.2	1/18/19	RM-4.2	4/17/20	MT-95.70	7/21/23	TC-61.30	7/19/19	809	10/20/23		
BP-5.1	7/15/22			MT-95.72	7/21/23	TC-65.10	1/17/14	821	4/20/12		
BP-9.1	1/18/19	AS-1-15	1/20/23	MT-95.73	7/21/23	TC-65.11	7/15/22	829	1/20/17		
		AS-2-15	7/21/23	MT-98.20	4/19/19	TC-71.10	4/21/23	832	7/21/23		
CB-2-3, 2-4	1/20/23	BR-1-13	1/17/14	MT-99.20	4/19/19	TC-72.20	7/21/23	833	7/21/23		
		EXJ-4-87	7/21/23	MT-99.30	1/17/20			840	7/21/23		
DM-1.1	7/17/20	GSD-1-19	1/15/21	MT-100.00	10/20/23			844	4/20/18		
DM-4.1	7/17/20	PCB-91	7/17/20	MT-101.60	4/21/23			848	1/15/21		
		SBR-1-20	7/21/23	MT-101.70	4/21/23			850	7/21/23		
MGS-1.1	7/16/21	SICD-1-21	1/21/22	MT-101.75	7/21/23			863	7/21/23		
MGS-2.1	1/19/18	SICD-2-14	1/15/21	MT-101.80	7/17/20			875	1/18/19		
MGS-3.1	1/19/18	VPF-1-90	7/21/23	MT-101.90	7/17/20			896	7/21/17		
MGS-3.2	1/18/13			MT-102.10	7/21/23			899	1/20/23		
MGS-4.2	7/19/13	HL-50.21	7/15/22	MT-102.20	4/19/19			908	10/20/17		
MGS-4.3	1/18/13			MT-102.30	10/16/15			921	4/20/12		
MGS-5.2	7/15/16	ITS-14.50	7/21/23	MT-103.10	1/21/22			929	7/21/23		
MGS-5.3	7/15/16			MT-104.10	4/21/23			996	7/21/23		

FEDERAL PROJECT NUMBER

E200816

RAILROAD INVOLVEMENT

NORFOLK SOUTHERN AND IORY RR

PROJECT DESCRIPTION

REHABILITATION OF 5.3 MILES OF I-270 IN FRANKLIN COUNTY INCLUDING PAVEMENT REPAIR AND RESURFACING AND BRIDGE REHABILITATION. PROJECT INCLUDES UPGRADES TO GUARDRAIL.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA:	14.85 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA:	1.00 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA:	15.85 ACRES

LIMITED ACCESS

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

2023 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HERBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY EXCEPT AS NOTED ON SHEETS P.30-P.34, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

Anthony C. Turowski

Anthony C. Turowski, P.E.
District 06 Deputy Director

Jack Marchbanks

Jack Marchbanks, PhD
Director, Department of Transportation

ENGINEER'S SEAL BRIDGE SHEETS 382A-382AB 	ENGINEER'S SEAL ROADWAY SHEETS 321-334, 342-343
ENGINEER'S SEAL ROADWAY ALL OTHER SHEETS EXCEPT AS NOTED 	ENGINEER'S SEAL BRIDGE SHEETS 345-382, 383-617
ENGINEER'S SEAL ROADWAY SHEETS 5-6, 8-13, 16, 276-280, 282-284, 288-311 	

TITLE SHEET

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Grandview Heights, Ohio 43121

DESIGNER
GKE

REVIEWER
ACF 01/05/24

PROJECT ID
112798

SHEET TOTAL
P.1 617

FRA-270-43.18

MODEL: Sheet PAPER SIZE: 34x22 (in.) DATE: 7/19/2024 TIME: 3:54:25 PM USER: atedak P:\OHDOTCE02_Works\112798\40b-Engineering\Roadway\Sheets\112798_GTO01.dgn

ITEM 614 - MAINTAINING TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS, AND THE FOLLOWING:

1. A MINIMUM OF THREE ELEVEN FOOT LANES OF TRAFFIC IN EACH DIRECTION ON IR 270 SHALL BE MAINTAINED BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC UNLESS PERMITTED BY NOTES OR SHOWN OTHERWISE IN THE PLANS.

2. NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

NEW YEAR'S (OBSERVED)	GENERAL/REGULAR ELECTION DAY (NOV)
PRESIDENTIAL PRIMARY (MARCH)	SPECIAL ELECTIONS (MARCH/MAY/AUG/NOV)
TOTAL SOLAR ECLIPSE (4/8/24)	THANKSGIVING
PRIMARY ELECTION (MAY)	CHRISTMAS (OBSERVED)
MEMORIAL DAY	
FOURTH OF JULY (OBSERVED)	
LABOR DAY	

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 SPECIAL EVENT	TIMES ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00 NOON FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00 NOON FRIDAY THROUGH 6:00 AM TUESDAY
MONDAY (TOTAL SOLAR ECLIPSE)	12:00 NOON FRIDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY	12:00 NOON MONDAY THROUGH 6:00 AM WEDNESDAY
TUESDAY (PRESIDENTIAL PRIMARY) (PRIMARY ELECTION) (GEN./REG. ELECTION) (SPECIAL ELECTIONS)	5:00 AM TUESDAY THROUGH 12:00 AM WEDNESDAY
WEDNESDAY	12:00 NOON TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00 NOON WEDNESDAY THROUGH 6:00 AM FRIDAY
THANKSGIVING	5:00 AM WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00 NOON THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00 NOON FRIDAY THROUGH 6:00 AM MONDAY

DURING THE SAME PERIODS, MAINTAIN PEDESTRIAN ACCESS IF PEDESTRIAN ACCESS WAS PRESENT PRIOR TO CONSTRUCTION.

NEWLY CONSTRUCTED LANE ADDITIONS, ONCE COMPLETED AND INITIALLY OPENED TO TRAFFIC, SHALL BE OPEN TO TRAFFIC DURING ALL SUBSEQUENT DESIGNATED HOLIDAYS AND SPECIAL EVENTS, AND RELATED PERIODS OF TIME, SPECIFIED ABOVE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE PER THE LANE VALUE CONTRACT (PN 127).

3. ALL EXISTING LANES, INCLUDING RAMPS, SHALL BE OPENED AND AVAILABLE TO TRAFFIC IN THE ORIGINAL OR PROPOSED FINAL ALIGNMENT BETWEEN OCTOBER 15 AND APRIL 1. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$3,000 PER CALENDAR DAY.

4. 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.

ITEM	DURATION OF CLOSURE	SIGN DISPLAY TO PUBLIC
RAMP & ROAD CLOSURES	>=2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	>12 HOURS & <2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	<=12 HOURS	4 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.

5. LENGTH AND DURATION OF LANE CLOSURE 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.

6. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH C&MS 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 SEPARATELY ITEMIZED IN THE PLAN.

ITEM 614, MAINTAINING TRAFFIC (TIME LIMINATION ON A DETOUR) PROPOSAL NOTE 129

A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION ON WILLIAMS RD. (CR123) SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR A PERIOD NOT TO EXCEED 90 CONSECUTIVE CALENDAR DAYS, WHEN THROUGH TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 34. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT AS SHOWN IN THE TABLE BELOW PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

DESCRIPTION OF CRITICAL WORK	CALENDAR DAYS TO COMPLETE	DISINCENTIVE \$ PER DAY	WORK WINDOW	
			START	END
FULL CLOSURE WITH DETOUR COMPLETING ALL WORK PER CMS 108.07.B	90	\$8,500 PER DAY	CONTRACT EXECUTION DATE	PROJECT COMPLETION DATE

COORDINATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL COORDINATE WORK WITH ODOT AND THE CONTRACTORS ON THE ADJACENT PROJECTS. COORDINATION SHALL BE MADE TO PREVENT CONFLICTING ADVANCE WARNING SIGNS, CONFLICTING DETOUR ROUTES, OVERLAPPING/CONFLICTING LANE CLOSURES, AND TO ENSURE THAT A MINIMUM DISTANCE OF 2 MILES BETWEEN ADJACENT LANE CLOSURES IS MAINTAINED. THIS IS NOT AN EXHAUSTED LIST OF COORDINATION ITEMS THAT MAY NEED TO BE RESOLVED BETWEEN PROJECTS. THE DEPARTMENT RESERVES THE RIGHT TO DECIDE WHICH PROJECT'S ACTIVITIES TAKE PRECEDENCE. PROJECTS THAT HAVE ACTIVITIES DELAYED DUE TO CONFLICTS WILL CONSIDER THIS AN EXCUSABLE, NON-COMPENSABLE DELAY PER 108.06.B. ON PROJECTS THAT HAVE ACTIVITIES DELAYED DUE TO CONFLICTS WHERE THE CONTRACTOR FAILED TO MEET THE NOTIFICATION REQUIREMENTS, THE DELAYS SHALL NOT BE CONSIDERED EXCUSABLE OR COMPENSABLE. ATTENDANCE AT DEPARTMENT ORDERED TRAFFIC COORDINATION MEETINGS BETWEEN ADJACENT PROJECTS SHALL BE CONSIDERED MANDATORY FOR EACH PROJECT'S SUPERINTENDENT AND WORKSITE TRAFFIC SUPERVISOR (WTS)*, AND INCIDENTAL TO THE LUMP SUM MAINTENANCE OF TRAFFIC PAYMENT ITEM.

THE FOLLOWING PROJECTS MAY HAVE CONFLICTS:

FRA-70-22.61 - 95639

FRA-70-22.85 - 98232

FRA-33-21.71 - 113744

FRA-33-24.687 - 121811

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.

SHOULDER RESURFACING FOR MAINTAINING TRAFFIC

SHOULDER RESURFACING OF I-270 MAINLINE FOR PRE-PHASE STEP 1, WORKZONE 1 AND WORKZONE 4 SHALL BE CONSTRUCTED PRIOR TO SHIFTING TRAFFIC AS SHOWN IN THE PLAN. THIS SHOULDER RESURFACING WORK IS NOT SHOWN ON THE PLANS BUT THE ITEMS NECESSARY TO COMPLETE THE WORK IS AS FOLLOWS:

PREPHASE – STEP 1:
ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE , 3” 24,146 SY
ITEM 442 – 3” ASPHALT CONCRETE INTERMEDIATE COURSE, 19mm, TYPE A, (446) 2,012 CY

WORKZONE 1:
ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE , 3” 11,264 SY
ITEM 442 – 3” ASPHALT CONCRETE INTERMEDIATE COURSE, 19mm, TYPE A, (446) 939 CY

WORKZONE 4:
ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE , 3” 1,480 SY
ITEM 442 – 3” ASPHALT CONCRETE INTERMEDIATE COURSE, 19mm, TYPE A, (446) 124 CY

THE FOLLOWING TOTALS WILL BE CARRIED TO THE GENERAL SUMMARY:
ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE , 3” 36,890 SY
ITEM 442 – 3” ASPHALT CONCRETE INTERMEDIATE COURSE, 19mm, TYPE A, (446) 3,075 CY

WORK ZONE INCREASED PENALTIES SIGN (R11-H5A)

R11-H5A-48 SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED IN GOOD CONDITION AND/OR REPLACED AS NECESSARY AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. SIGNS SHALL BE MOUNTED AT THE APPROPRIATE OFFSETS AND ELEVATIONS AS PRESCRIBED BY THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THEY SHALL BE MAINTAINED ON SUPPORTS MEETING CURRENT SAFETY CRITERIA.

THE SIGNS MAY BE ERECTED OR UNCOVERED NO MORE THAN FOUR HOURS BEFORE THE ACTUAL START OF WORK. THE SIGNS SHALL BE REMOVED OR COVERED NO LATER THAN FOUR HOURS FOLLOWING RESTORATION OF ALL LANES TO TRAFFIC WITH NO RESTRICTIONS, OR SOONER AS DIRECTED BY THE ENGINEER. TEMPORARY SIGN COVERING AND UNCOVERING DUE TO TEMPORARY LANE RESTORATIONS SHALL BE GUIDED BY THE FOUR-HOUR LIMITATIONS STATED ABOVE. SUCH LANE RESTORATIONS SHOULD BE EXPECTED TO REMAIN IN EFFECT FOR 30 OR MORE CONSECUTIVE CALENDAR DAYS, SUCH AS DURING WINTER SHUT-DOWNS.

THE R11-H5A-48 SIGNS SHALL BE MOUNTED ON 2 NO. 3 POSTS WHEN LOCATED WITHIN CLEAR ZONES.

THE CONTRACTOR MAY USE SIGNS AND SUPPORTS IN USED, BUT GOOD, CONDITION PROVIDED THE SIGNS MEET CURRENT ODOT SPECIFICATIONS. SIGN FACES SHALL BE RETROREFLECTORIZED WITH TYPE G SHEETING COMPLYING WITH THE REQUIREMENTS OF C&MS 730.19.

WORK ZONE INCREASED PENALTIES SIGNS AND SUPPORTS WILL BE MEASURED AS THE NUMBER OF SIGN INSTALLATIONS, INCLUDING THE SIGN AND NECESSARY SUPPORTS. IF A SIGN AND SUPPORT COMBINATION IS REMOVED AND REERECTED AT ANOTHER LOCATION AS DIRECTED BY THE ENGINEER, IT SHALL BE CONSIDERED ANOTHER UNIT.

PAYMENT FOR ACCEPTED QUANTITIES, COMPLETE, IN PLACE WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL BE FULL COMPENSATION FOR ALL MATERIALS, LABOR, INCIDENTALS AND EQUIPMENT FOR FURNISHING, ERECTING, MAINTAINING, COVERING DURING SUSPENSION OF WORK, AND REMOVAL OF THE SIGN AND SUPPORT.

ITEM 614, WORK ZONE INCREASED PENALTIES SIGN 110 EACH

WORK ZONE INCREASED PENALTIES SIGNS WILL BE PLACED AT THE LOCATIONS SHOWN IN THE PLANS.

DESIGN AGENCY



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DESIGNER
GKE

REVIEWER
MJC 01/05/24

PROJECT ID
112798

SHEET TOTAL
P.17 | 617

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.

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

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 CALENDER 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 THE ADDITIONAL 2 WEEKS OF UPCOMING WORK ACTIVITIES. THIS WILL INCLUDE ANY NOTIFICATION REQUIREMENTS FOR RESTRICTIONS THAT HAVE A DURATION GREATER THAN 12 HOURS.

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.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. PLACEMENT OF PROPOSED SUBBASE AND BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO APPROVAL OF THE ENGINEER.

ITEM 614, WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARDS APPROVED PRODUCTS WEB PAGE.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT.

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE TRANSITIONS.

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT AND MAINTAIN A COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

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, LAW ENFORCEMENT OFFICERS AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

EARTHWORK FOR MAINTAINING TRAFFIC

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE PLAN FOR INFORMATION ONLY.

CROSSOVER INFORMATION:

EXCAVATION FOR MAINTAINING TRAFFIC 65 CU. YD.
 EMBANKMENT FOR MAINTAINING TRAFFIC 1545 CU. YD.

SHOULDER WIDENING INFORMATION:

EXCAVATION FOR MAINTAINING TRAFFIC 3,534 CU. YD.

WHEN UNDERCUTS ARE NECESSARY FOR MAINLINE PAVEMENT OR EMBANKMENT CONSTRUCTION, EVALUATE THE NEED FOR TEMPORARY ROAD UNDERCUTS IF WITHIN A CLOSE PROXIMITY TO THE MAINLINE UNDERCUTS. A GEOTECHNICAL EVALUATION SHOULD BE CONSIDERED TO DETERMINE IF THE EXISTING SOIL CONDITIONS ARE ADEQUATE TO SUPPORT THE TEMPORARY ROAD. ADDITIONAL SOIL BORINGS ALONG THE TEMPORARY ROAD ARE NOT NORMALLY REQUIRED.

ITEM 622, PORTABLE BARRIER, 50", AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING, MAINTAINING, AND SUBSEQUENTLY REMOVING A 50-INCH PORTABLE BARRIER AT THE LOCATIONS SHOWN ON THE PLANS. FOR DETAILS, SEE SCD RM-4.1.

PORTABLE STEEL BARRIER IS AN APPROVED ALTERNATIVE TO PORTABLE CONCRETE BARRIER. FOR INFORMATION ON APPROVED VENDORS, SEE THE APPROVED PRODUCTS LIST MAINTAINED BY THE OFFICE OF ROADWAY ENGINEERING.

PORTABLE BARRIER, 32 INCHES HIGH WITH AN 18-INCH MINIMUM HEIGHT GLARE SCREEN MAY BE USED AT THE OPTION OF THE CONTRACTOR. THE GLARE SCREEN SHALL BE CONSTRUCTED USING ONE OF THE SCREENS PROVIDED ON THE APPROVED LIST, AVAILABLE ON THE OFFICE OF ROADWAY ENGINEERING WEBSITE.

PADDLE OR INTERMITTENT TYPE GLARE SCREENS SHALL BE DESIGNED USING A 20 DEGREE CUT-OFF ANGLE BASED ON TANGENT ALIGNMENT. THAT SPACING SHALL BE USED THROUGHOUT THE BARRIER LENGTH WITHOUT REGARD TO BARRIER CURVATURE.

THE GLARE SCREEN SYSTEM SHALL BE SECURELY FASTENED TO THE 32-INCH PORTABLE BARRIER USING THE HARDWARE AND PROCEDURES SPECIFIED BY THE MANUFACTURER.

FOR DIRECTIONS ON HOW TO INSTALL THE GLARE SCREEN AND THE BARRIER, SEE THE MANUFACTURER'S INSTRUCTIONS.

PAYMENT SHALL INCLUDE ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO PERFORM THE WORK AND SHALL BE PAID FOR AT THE CONTRACT PRICE PER FOOT FOR ITEM 622, PORTABLE BARRIER, 50", AS PER PLAN.

ITEM 202 - CABLE BARRIER REMOVAL, AS PER PLAN

THE CONTRACTOR SHALL REMOVE PORTIONS OF THE EXISTING CABLE BARRIER SYSTEM IMPACTED BY MAINTENANCE OF TRAFFIC CROSSOVERS. THE CONTRACTOR SHALL PLACE A TEMPORARY ANCHORAGE AT THE LIMITS OF DISTURBANCE. IF A CROSSOVER IS NOT IN USE FOLLOWING REMOVAL OF THE CABLE BARRIER, THE CONTRACTOR SHALL ERECT PORTABLE BARRIER TO PREVENT CROSSOVER COLLISIONS. UPON THE COMPLETION OF THE CONSTRUCTION AND REMOVAL OF THE CROSSOVER, THE CONTRACTOR SHALL RESTORE THE BARRIER SYSTEM TO THE ORIGINAL CONFIGURATION. ALL COSTS INCLUDING LABOR, MATERIALS, AND EQUIPMENT TO TEMPORARILY RECONFIGURE THE SYSTEM AND RESTORE THE ORIGINAL LAYOUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 202 - CABLE BARRIER REMOVED, AS PER PLAN.

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

PRE-PHASE STEP 2 WORK DETAILS EXISTING SHOULDERS THAT SHALL BE RECONSTRUCTED PRIOR TO SHIFTING TRAFFIC. ADDITIONALLY PORTIONS OF WORK ZONE 1 AND WORK ZONE 4 MUST HAVE EXISTING SHOULDERS RECONSTRUCTED PRIOR TO SHIFTING TRAFFIC THAT ARE NOT COVERED BY THE PREPHASE WORKZONE.

A CONTINGENCY QUANTITY IS INCLUDED FOR PORTIONS OF THE EXISTING OUTSIDE SHOULDER THAT ARE IN POOR CONDITION AND FOR AREAS WHERE THE EXISTING PAVEMENT NEEDS REPLACED AFTER MILLING THE SHOULDER SURFACE. THE EXISTING SHOULDER WILL BE REPLACED IN THESE AREAS WITH ITEM 615 – PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, APP.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.
 ITEM 615 – PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN 6,806 CU. YD

THE PAVEMENT COMPOSITION SHALL CONFORM TO C&MS 615.05 AND NO SUBSTITUTIONS FOR ITEM 304 SHALL BE ALLOWED UNLESS APPROVED BY THE PROJECT ENGINEER. THESE SHOULDERS SHALL REMAIN IN PLACE AT THE COMPLETION OF THE PROJECT. ALL COSTS ASSOCIATED WITH RECONSTRUCTING THE EXISTING SHOULDERS SHALL BE INCIDENTAL TO ITEM 615, PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN UNLESS ITEMIZED SEPARATELY.

I-270 NORTHBOUND				I-270 SOUTHBOUND			
INSIDE SHOULDER				INSIDE SHOULDER			
733+20.36	TO	746+95.96	Min. 7 ft.	740+81.11	TO	746+81.19	Min. 5 ft.
748+73.22	TO	777+89.09	Min. 7 ft.**	748+58.66	TO	778+14.36	Min. 6 ft. **
780+51.59	TO	785+81.59	Min. 5 ft. **	780+28.09	TO	792+66.59	Min. 6 ft.
841+94.97	TO	845+46.15	Min. 4 ft.	835+90.12	TO	839+28.77	Min. 4 ft.
848+80.30	TO	859+97.15	Min. 4 ft.	848+53.60	TO	865+50.00	Min. 4 ft.
859+97.15	TO	878+38.76	Min. 9 ft. **	865+50.00	TO	878+38.76	Min 10 ft. **
878+38.76	TO	881+24.64	Min. 4 ft. **	878+38.76	TO	881+31.96	Min. 4 ft.
882+17.09	TO	884+96.97	Min. 4 ft.	882+24.55	TO	885+14.11	Min. 4 ft. **
884+96.97	TO	909+91.80	Min. 8 ft. **	885+14.11	TO	909+00.00	Min. 9 ft. **
909+91.80	TO	912+70.26	Min. 4 ft. **	909+00.00	TO	912+18.52	Min. 4 ft. **
915+08.72	TO	920+69.07	Min. 4 ft.	914+31.87	TO	921+29.20	Min. 4 ft.
923+09.66	TO	926+09.97	Min. 4 ft. **	923+70.91	TO	927+49.78	Min. 4 ft. **
926+09.97	TO	949+97.58	Min. 9 ft. **	927+49.78	TO	951+48.31	Min. 10 ft. **

I-270 NORTHBOUND				I-270 SOUTHBOUND			
OUTSIDE SHOULDER				OUTSIDE SHOULDER			
730+17.81	TO	747+07.98	Min 10 ft.	739+86.11	TO	746+69.15	Min 10 ft.
748+85.38	TO	748+89.09	Min 10 ft.	748+46.91	TO	778+14.36	Min 10 ft.
780+51.59	TO	788+41.59	Min 10 ft.	780+27.09	TO	797+60.33	Min 10 ft.
824+27.71	TO	836+79.75	Min. 8 ft.	848+51.85	TO	849+13.94	Min. 4 ft.
865+69.25	TO	881+18.28	Min. 10 ft.	849+57.57	TO	862+15.89	Min. 15 ft. **
882+11.12	TO	913+08.49	Min. 10 ft.	861+24.77	TO	881+38.50	Min. 6 ft.
915+23.45	TO	920+21.92	Min. 10 ft.	882+30.27	TO	911+79.93	Min. 10 ft.
922+64.19	TO	955+82.35	Min. 10 ft.	913+94.68	TO	921+75.86	Min. 10 ft.
				923+19.05	TO	968+66.38	Min. 10 ft.

** NOTE: DENOTES SHOULDER WIDENING FROM THE EXISTING SHOULDER WIDTH. ALL OTHER STATION RANGES TO MATCH EXISTING SHOULDER WIDTH.

MAINTENANCE OF TRAFFIC GENERAL NOTES

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P.23 | 617

ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM

THIS WORK SHALL CONSIST OF FURNISHING, ERECTING, OPERATING, MAINTAINING AND REMOVING A WORK ZONE LIGHTING SYSTEM FOR A SINGLE CROSSOVER, OR OVERLAPPING A PAIR OF CROSSOVERS. THE SYSTEM SHALL BE AS SHOWN ON TRAFFIC SCD MT-100.00. THE CONTRACTOR SHALL ARRANGE FOR AND PAY FOR POWER. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE PORTIONS OF 625 AND 725 EXCEPT: THE PERFORMANCE TEST OF 625.19F, AND CERTIFIED DRAWING REQUIREMENT OF 625.06, ARE WAIVED AND USED MATERIALS IN GOOD CONDITION ARE ACCEPTABLE.

POLES WHICH ARE NOT PROTECTED BY GUARDRAIL OR PORTABLE BARRIER SHALL BE LOCATED OUTSIDE THE CLEAR ZONE, AND SHOULD BE LOCATED AT LEAST 30 FEET (PREFERABLY 40 FEET) FROM THE EDGE OF PAVEMENT WHEN POSSIBLE. ADDITIONAL POLE LINES, CABLES AND APPURTENANCES NECESSARY TO FURNISH POWER TO THE LIGHTING SYSTEM SHALL BE INCLUDED IN THIS ITEM. SERVICE POLES SHALL BE POSITIONED WITH THE SAME CONSTRAINTS AS THE LIGHTING POLES AS A MINIMUM.

PAYMENT WILL BE MADE AT THE UNIT PRICE PER EACH FOR ITEM 614, WORK ZONE CROSSOVER LIGHTING SYSTEM THROUGHOUT ALL PHASES OF WORK WHEN THE CROSSOVER ROADWAYS ARE USED. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR IMPLEMENTATION OF A WORK ZONE CROSS OVER LIGHTING SYSTEM.

ITEM 614 - WORK ZONE CROSSOVER LIGHTING SYSTEM - 3 EACH

ITEM 618 - RUMBLE STRIPS (ASPHALT CONCRETE) REMOVAL, AS PER PLAN

THE CONTRACTOR SHALL MILL 2 INCHES DEEP BY 2 FEET WIDE OF THE EXISTING ASPHALT SHOULDER IN ORDER TO REMOVE THE EXISTING RUMBLE STRIPS AT THE FOLLOWING LOCATIONS:

ALONG SOUTHBOUND I.R. 270 CD LANES

STA. 998+66 TO STA. 1002+70 (INSIDE SHOULDER) = 404 FT.
STA. 1004+15 TO STA. 1010+84 (INSIDE SHOULDER) = 669 FT.

ALONG SOUTHBOUND I.R. 270 MAINLINE LANES

STA. 971+90 TO STA. 975+41 (OUTSIDE SHOULDER) = 351 FT.
STA. 979+97 TO STA. 982+32 (OUTSIDE SHOULDER) = 235 FT.
STA. 971+05 TO STA. 975+19 (INSIDE SHOULDER) = 414 FT.
STA. 979+72 TO STA. 993+17 (INSIDE SHOULDER) = 1,345 FT.

ALONG NORTHBOUND I.R. 270 MAINLINE LANES

STA. 961+33 TO STA. 974+63 (OUTSIDE SHOULDER) = 1,330 FT.
STA. 979+17 TO STA. 984+13 (OUTSIDE SHOULDER) = 496 FT.
STA. 961+72 TO STA. 974+85 (INSIDE SHOULDER) = 1,313 FT.
STA. 979+41 TO STA. 982+18 (INSIDE SHOULDER) = 277 FT.

THE CONTRACTOR SHALL THEN COAT ALL MILLED SURFACES (HORIZONTAL AND VERTICAL) WITH APPROVED AC LIQUID. NEXT THE CONTRACTOR SHALL PLACE 2 INCHES OF ITEM 442 - ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A, (448).

AN ESTIMATED QUANTITY OF 6,834 FEET HAS BEEN CARRIED TO THE GENERAL SUMMARY.

WORK ZONE QUEUE DETECTION WARNING SYSTEM

THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN AN APPROVED WORK ZONE QUEUE DETECTION WARNING SYSTEM (WZQDWS) AS PER SUPPLEMENTAL SPECIFICATION 896.

THE INITIAL LOCATIONS OF THE PORTABLE NON-INTRUSIVE TRAFFIC SENSOR SHALL BE AT THE BEGINNING OF THE TAPER, 0.5 MILES FROM THE TAPER, 1 MILE FROM THE TAPER AND 1.5 MILES FROM THE TAPER. THE INITIAL LOCATION OF PCMS SHALL BE AT 2.5 MILES FROM THE TAPER. IT IS EXPECTED THAT THESE LOCATIONS WILL VARY BASED ON PLANNED OR UNPLANNED PHASE AND TRAFFIC PATTERN CHANGES. THE LOCATIONS AND PLACEMENT OF THE SENSORS AND PCMS SHALL BE DISCUSSED AT THE PRE-MAINTENANCE OF TRAFFIC MEETING. PLACEMENT, OPERATION, AND MAINTENANCE AND ALL ACTIVATION OF THE DEVICES BY THE CONTRACTOR SHALL BE DIRECTED BY THE ENGINEER.

THE FOLLOWING TRAFFIC SENSOR THRESHOLDS AND PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) MESSAGES SHALL BE USED:
GREATER THAN OR EQUAL TO 50 MPH - USE FOUR CORNER CAUTION MODE
BETWEEN 50 MPH AND 25 MPH - TRAFFIC AHEAD XX MPH/ SLOW DOWN
BELOW OR EQUAL TO 25 MPH - TRAFFIC AHEAD XX MPH/ PREPARE TO STOP

FOUR CORNER FLASHING CAUTION MODE SHALL CONSIST OF THE USE OF ONE ASTERISK IN EACH CORNER OF THE PCMS DISPLAY (4 TOTAL ASTERISKS).

XX SHALL BE ROUNDED UP TO THE NEAREST MULTIPLE OF 5 MPH MINUS 1. OCCUPANCY MAY BE DIRECTED TO BE USED BASED ON CERTAIN TRAFFIC CONDITIONS AND SCENARIOS. ODOT WILL DIRECT THE CONTRACTOR OF THE THRESHOLDS TO BE USED FOR THOSE AREAS WHERE OCCUPANCY IS DIRECTED TO BE USED.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 896, PORTABLE NON-INTRUSIVE TRAFFIC SENSOR, CLASS II 30 SIGN MONTHS

ASSUMING 3 SENSORS FOR 1 MONTH FOR WORK ZONE 0 WORK

ASSUMING 3 SENSORS FOR 4 MONTHS FOR WORK ZONE 2 WORK

ASSUMING 3 SENSORS FOR 4 MONTHS FOR WORK ZONE 3 WORK

ASSUMING 3 SENSORS FOR 1 MONTH FOR WORK ZONE 5 WORK

ITEM 896, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 10 SIGN MONTHS

ASSUMING 1 PCMS SIGN FOR 1 MONTH FOR WORK ZONE 0 WORK

ASSUMING 1 PCMS SIGN FOR 4 MONTHS FOR WORK ZONE 2 WORK

ASSUMING 1 PCMS SIGN FOR 4 MONTHS FOR WORK ZONE 3 WORK

ASSUMING 1 PCMS SIGN FOR 1 MONTH FOR WORK ZONE 5 WORK

MAINTENANCE OF TRAFFIC FOR JOINT REPAIRS:

THE CONTRACTOR MAY PERFORM JOINT REPAIRS LOCATED WITHIN THE PREVIOUSLY DESCRIBED WORK ZONES DURING THE INDIVIDUAL PHASE SETUPS SHOWN IN THE PLANS AS LONG AS THE REPAIRS DO NOT VIOLATE THE LANE VALUE CONTRACT TABLES HEREIN, EXTEND PREVIOUSLY APPROVED WEEKEND CLOSURES, AND MEET THE REQUIREMENTS OF SCD MT-101.90. REPAIRS NOT COMPLETED WITHIN THE WORK ZONES ABOVE SHALL BE COMPLETED PRIOR TO FINAL RESURFACING USING LANE SHIFTS OR LANE CLOSURES PER THE LANE VALUE CONTRACT TABLES AND APPLICABLE STANDARD CONSTRUCTION DRAWINGS.

WORK ZONE EGRESS WARNING SYSTEM

THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN AN APPROVED WORK ZONE EGRESS WARNING SYSTEM (WZEWS) AS PER SUPPLEMENTAL SPECIFICATION 829.

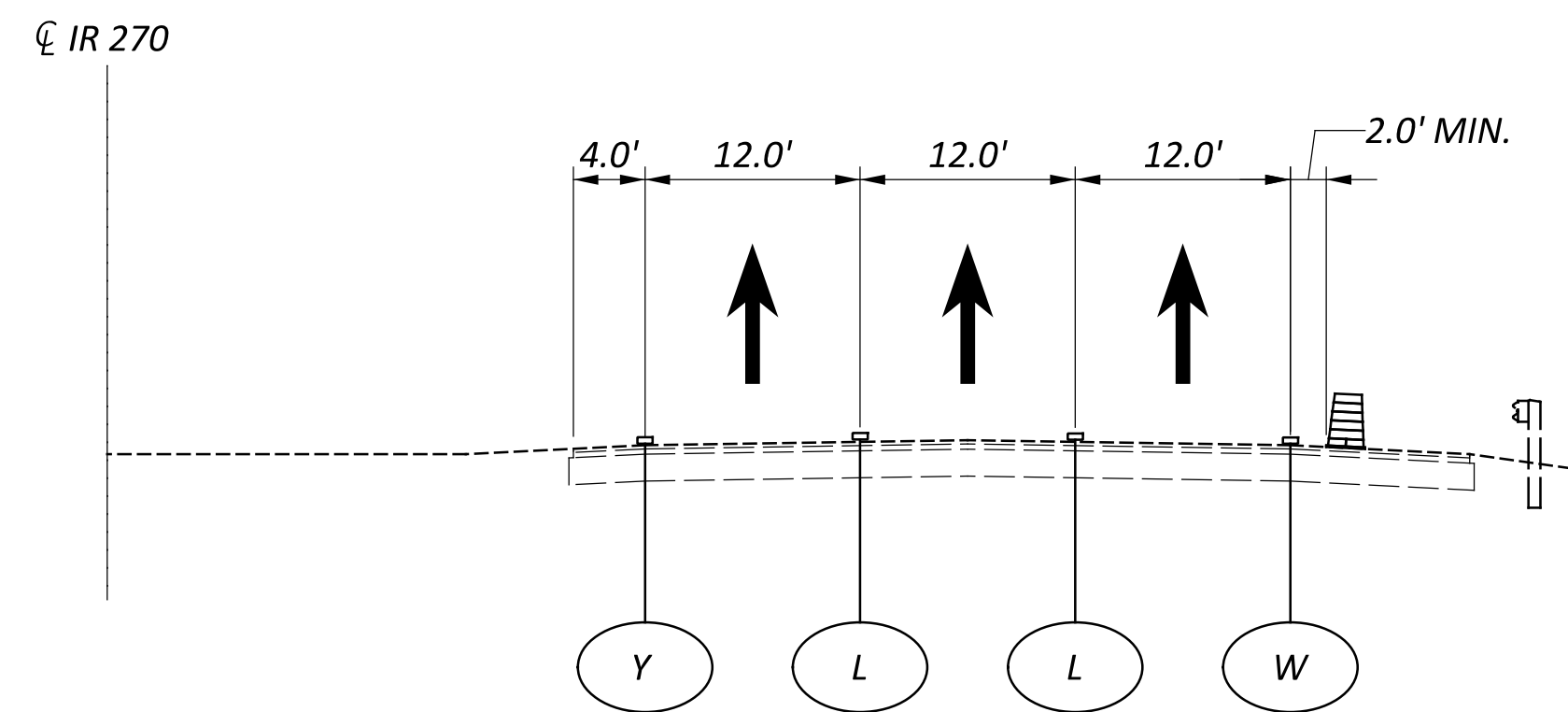
THE PROBABLE INITIAL LOCATIONS OF THE WZEWS DEVICES ARE SHOWN IN THE PRE-PHASE PAVEMENT OPERATIONS OF THE PLAN. IT IS EXPECTED THAT THESE LOCATIONS WILL VARY BASED ON PLANNED OR UNPLANNED PHASE AND TRAFFIC PATTERN CHANGES. PLACEMENT, OPERATION, AND MAINTENANCE AND ALL ACTIVATION OF THE DEVICES BY THE CONTRACTOR SHALL BE DIRECTED BY THE ENGINEER.

WZEWS SHALL BE USED IN ACCORDANCE WITH MT-103.10. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY.

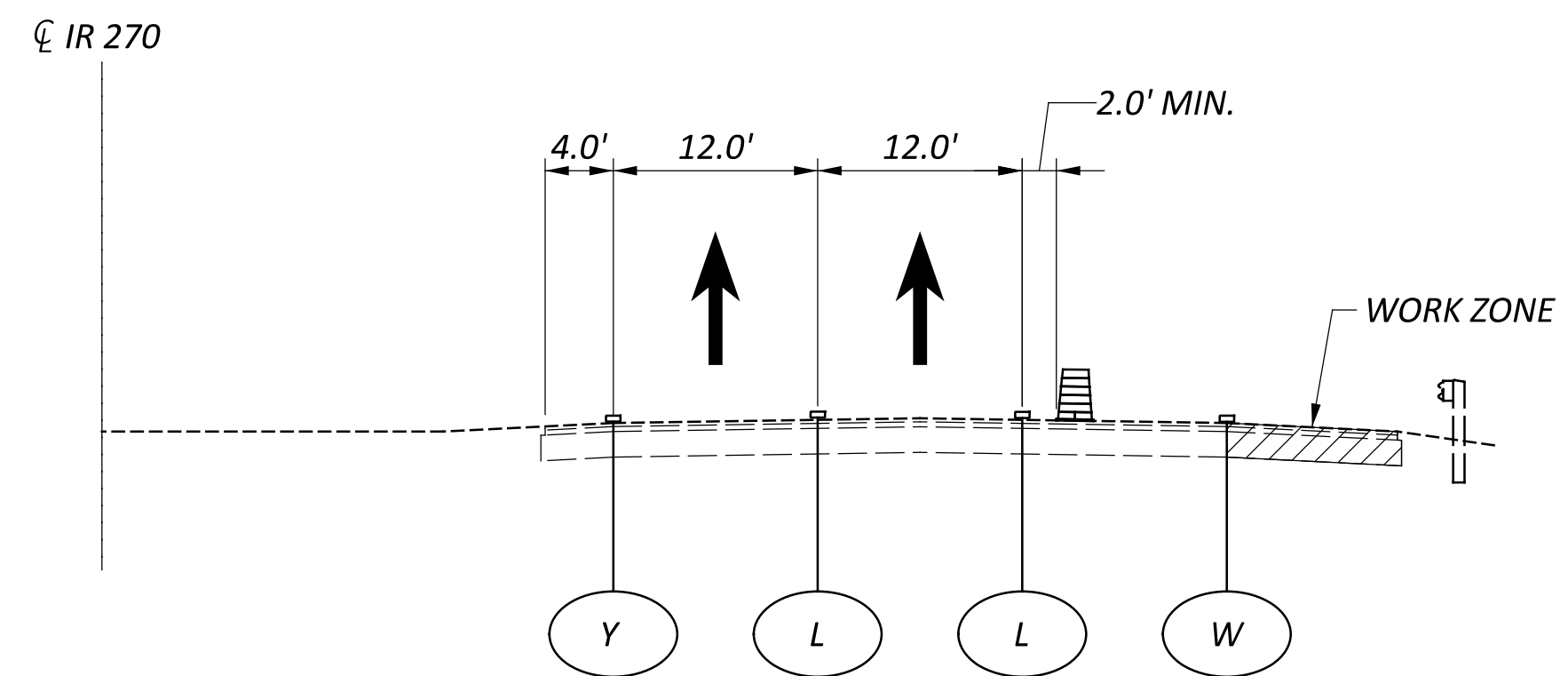
ITEM 829, WORK ZONE EGRESS WARNING SYSTEM 3 SIGN MONTHS

ASSUMING 3 WORK ZONE EGRESS WARNING SYSTEMS FOR 1 MONTH FOR PRE-PHASE STEP 2 WORK

SHOULDER WORK NOT OTHERWISE SPECIFIED IN THE PLANS



NON-WORKING HOURS



WORKING HOURS

NOTE: DURING THE HOURS LISTED IN THIS PLAN, NIGHTTIME LANE CLOSURES SHALL BE IMPLEMENTED PER MT 95.30 FOR SHOULDER WORK AND TEMPORARY PAVEMENT WORK ADJACENT TO IR 270. SEE THE WORKING AND NON-WORKING HOURS IN THE LANE VALUE CONTRACT TABLES FOR DETAILS. SHOULDER WORK SHALL BE LIMITED TO THE LENGTH OF WORK THAT CAN BE COMPLETED IN THE SAME DAY.

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SHEET TOTAL

P.24 617

SEQUENCE OF CONSTRUCTION

THE FOLLOWING DESIGNATED WORK ZONES HAVE BEEN ESTABLISHED TO BE CONSTRUCTED INDEPENDENTLY OF EACH OTHER. WORK ZONE 0 SHALL BE COMPLETED PRIOR TO OR ALONG WITH PRE-PHASE PAVEMENT OPERATIONS. WORK ZONE 1 AND 4 CAN BE COMPLETED AT ANY TIME, INCLUDING CONCURRENTLY WITH WORK ZONE 2 OR WORK ZONE 3. WORK ZONE 2 AND WORK ZONE 3 SHALL NOT BE CONSTRUCTED AT THE SAME TIME DUE TO OVERLAP OF THE LANE SHIFTS/CLOSURES. PAVEMENT RESURFACING SHALL ONLY OCCUR ONCE ALL WORK ZONES ARE COMPLETE AND ALL PAVEMENT REPAIRS ARE FINISHED.

PRE-PHASE PAVEMENT OPERATIONS

PRIOR TO SHIFTING TRAFFIC FOR ANY CONSTRUCTION ACTIVITIES WITHIN WORK ZONE 2 AND WORK ZONE 3, ALL OUTSIDE SHOULDERS MUST BE RESURFACED AND ALL INSIDE SHOULDERS REPLACED/WIDENED. PRE-PHASE STEP 1 (NOT SHOWN IN THE PLANS) CALLS FOR THE OUTSIDE SHOULDERS TO BE RESURFACED UTILIZING LANE CLOSURES AS PER THE LANE VALUE CONTRACT TABLE. SEE SHEET 17 FOR DETAILS REGARDING SHOULDER RESURFACING FOR MAINTAINING TRAFFIC. FOLLOWING THE OUTSIDE SHOULDER RESURFACING, TRAFFIC WILL THEN BE SHIFTED TO THE OUTSIDE AND THE INSIDE SHOULDERS SHALL BE RECONSTRUCTED/WIDENED AS SHOWN IN THE PLANS (PRE-PHASE STEP 2). SIMILARLY, ALL OUTSIDE SHOULDERS MUST BE RESURFACED AND INSIDE SHOULDERS REPLACED PRIOR TO SHIFTING TRAFFIC IN WORK ZONE 1 AND WORK ZONE 4. SHOULDER WORK FOR WORK ZONE 1 AND WORK ZONE 4 SHALL BE DONE DURING ALLOWABLE LANE CLOSURE TIMES AS SHOWN IN THE LANE VALUE CONTRACT TABLE.

WORK ZONE 0 (SOUTHBOUND NOE BIXBY)

PHASE 1A

DROP THE INSIDE LANE OF SOUTHBOUND I-270 MAINLINE ALONG WITH THE INSIDE LANE OF SOUTHBOUND I-270 COLLECTOR DISTRIBUTOR AS SHOWN. COMPLETE PHASE 1A WORK ON THE SOUTHBOUND NOE BIXBY STRUCTURE. THESE LANE REDUCTIONS SHALL LAST ONE WEEKEND AS PER PROPOSAL NOTE 140.

PHASE 1B

CLOSE THE SOUTHBOUND I-270 MAINLINE LANES NORTH OF MAIN STREET AND DIVERT ALL TRAFFIC TO THE SOUTHBOUND I-270 COLLECTOR DISTRIBUTOR. CLOSE RAMP C AND REDUCE THE SOUTHBOUND COLLECTOR DISTRIBUTOR TO A SINGLE LANE AS SHOWN IN THE PLANS. COMPLETE PHASE 1B WORK ON THE SOUTHBOUND NOE BIXBY STRUCTURE. THESE LANE CLOSURES/REDUCTIONS SHALL LAST ONE WEEKEND AS PER PROPOSAL NOTE 140.

PHASE 2A

DROP THE OUTSIDE LANE OF SOUTHBOUND I-270 MAINLINE ALONG WITH THE OUTSIDE LANE OF SOUTHBOUND I-270 COLLECTOR DISTRIBUTOR AND SHIFT LANES TO THE INSIDE. COMPLETE PHASE 1B WORK ON THE SOUTHBOUND NOE BIXBY STRUCTURE. THESE LANE REDUCTIONS SHALL LAST ONE WEEKEND AS PER PROPOSAL NOTE 140.

PHASE 2B

DROP THE OUTSIDE LANE OF SOUTHBOUND I-270 MAINLINE ALONG WITH THE OUTSIDE LANE OF SOUTHBOUND I-270 COLLECTOR DISTRIBUTOR AND SHIFT LANES TO THE INSIDE. COMPLETE PHASE 1B WORK ON THE SOUTHBOUND NOE BIXBY STRUCTURE. THESE LANE REDUCTIONS SHALL LAST ONE WEEKEND AS PER PROPOSAL NOTE 140.

WORK ZONE 1 (IORY RAILROAD AND ALUM CREEK)

PHASE 1

DROP THE INSIDE LANE OF NORTHBOUND I-270 AND SHIFT REMAINING 2 LANES ONTO THE OUTSIDE SHOULDER. COMPLETE WORK ON THE IORY RAILROAD AND ALUM CREEK STRUCTURES AS SHOWN IN THE PLANS. THIS LANE REDUCTION SHALL LAST ONE WEEKEND AS PER THE LANE VALUE CONTRACT TABLE.

PHASE 2A

DROP THE OUTSIDE LANE OF NORTHBOUND I-270 AND SHIFT REMAINING 2 LANES ONTO THE INSIDE SHOULDER. COMPLETE WORK ON THE IORY RAILROAD AND ALUM CREEK STRUCTURES AS SHOWN IN THE PLANS. THIS LANE REDUCTION SHALL LAST ONE WEEKEND AS PER THE LANE VALUE CONTRACT TABLE.

PHASE 2B

REOPEN THE OUTSIDE LANE OF NORTHBOUND I-270 IN THE SHIFTED PHASE 2A CONFIGURATION AS SHOWN IN THE PLANS. COMPLETE ANY REMAINING WORK NOT FINISHED DURING THE PHASE 2A WEEKEND LANE CLOSURE.

PHASE 3

DROP THE INSIDE LANE OF SOUTHBOUND I-270 AND SHIFT REMAINING 2 LANES ONTO THE OUTSIDE SHOULDER. COMPLETE WORK ON THE IORY RAILROAD AND ALUM CREEK STRUCTURES AS SHOWN IN THE PLANS. THIS LANE REDUCTION SHALL LAST ONE WEEKEND AS PER THE LANE VALUE CONTRACT TABLE.

PHASE 4A

DROP THE OUTSIDE LANE OF SOUTHBOUND I-270 AND SHIFT REMAINING 2 LANES ONTO THE INSIDE SHOULDER. COMPLETE WORK ON THE IORY RAILROAD AND ALUM CREEK STRUCTURES AS SHOWN IN THE PLANS. THIS LANE REDUCTION SHALL LAST ONE WEEKEND AS PER THE LANE VALUE CONTRACT TABLE.

PHASE 4B

REOPEN THE OUTSIDE LANE OF SOUTHBOUND I-270 IN THE SHIFTED PHASE 4A CONFIGURATION AS SHOWN IN THE PLANS. COMPLETE ANY REMAINING WORK NOT FINISHED DURING THE PHASE 2A WEEKEND LANE CLOSURE.

WORK ZONE 2 (US 33)

PHASE 1

REDIRECT MIDDLE LANE OF NORTHBOUND I-270 ONTO THE CD RAMP AT THE US 33 INTERCHANGE. ENTRANCE RAMP FROM US 33 EAST TO I-270 NORTH SHALL BE CLOSED FOR PHASES 1-5 AND DETOURED AS SHOWN IN THE PLANS. CROSSOVER INSIDE LANE OF SOUTHBOUND I-270 TRAFFIC. SHIFT REMAINING TWO LANES OF SOUTHBOUND TRAFFIC ONTO THE OUTSIDE SHOULDER AND COMPLETE WORK ON THE SOUTHBOUND I-270 STRUCTURE AS SHOWN. ENTRANCE RAMP FROM US 33 EAST TO I-270 SOUTH SHALL BE CLOSED FOR PHASES 1-2 AND DETOURED AS SHOWN.

PHASE 2

NORTHBOUND I-270 TRAFFIC REMAINS IN THE PHASE 1 CONFIGURATION FOR PHASE 2. INSIDE SOUTHBOUND I-270 LANE CROSSES OVER IN THE SAME CONFIGURATION AS PHASE 1. SHIFT 2 REMAINING OUTSIDE I-270 SOUTHBOUND LANES ONTO THE INSIDE SHOULDER AND COMPLETE REMAINING WORK ON THE SOUTHBOUND STRUCTURE AS SHOWN.

PHASE 3

I-270 SOUTHBOUND TRAFFIC SHALL BE RETURNED TO ORIGINAL LANE CONFIGURATION PRIOR TO THE START OF PHASE 3. I-270 NORTHBOUND TRAFFIC REMAINS IN THE PHASE 1 CONFIGURATION. COMPLETE WORK ON THE I-270 NORTHBOUND STRUCTURE AS SHOWN IN THE PLANS.

PHASE 4

THE TWO OUTSIDE I-270 NORTHBOUND TRAFFIC REMAINS IN THE PHASE 1 CONFIGURATION. SHIFT THE INSIDE I-270 NORTHBOUND LANE TO THE INSIDE SHOULDER AND COMPLETE WORK ON THE I-270 NORTHBOUND STRUCTURE AS SHOWN IN THE PLANS.

PHASE 5 (NOT SHOWN)

RETURN NORTHBOUND I-270 TRAFFIC TO ORIGINAL CONFIGURATION PRIOR TO THE START OF PHASE 5. FULLY CLOSE THE I-270 CD STRUCTURE AND DETOUR US 33 EAST TO I-270 NORTH AND US 33 WEST TO I-270 NORTH. COMPLETE ALL STRUCTURES WORK AS SHOWN IN THE PLANS.

WORK ZONE 3 (MASON RUN, REFUGEE ROAD AND HAMILTON ROAD)

PHASE 1

DROP THE OUTSIDE LANE OF NORTHBOUND I-270 AND CROSSOVER REMAINING NORTHBOUND LANE AS SHOWN IN THE PLANS. SHIFT THE NORTHBOUND I-270 CD LANE TO THE OUTSIDE AND COMPLETE WORK ON THE MASON RUN, REFUGEE ROAD AND HAMILTON ROAD STRUCTURES AS SHOWN.

PHASE 2

CROSSOVER INSIDE NORTHBOUND LANE IN THE PHASE 1 CONFIGURATION. SHIFT OUTSIDE MAINLINE NORTHBOUND LANE AND THE I-270 CD LANE TO THE INSIDE AND COMPLETE WORK ON THE MASON RUN, REFUGEE ROAD AND HAMILTON ROAD STRUCTURES AS SHOWN.

PHASE 3

DROP THE OUTSIDE LANE OF SOUTHBOUND I-270 AND CROSSOVER INSIDE SOUTHBOUND LANE AS SHOWN IN THE PLANS. SHIFT REMAINING SOUTHBOUND LANE TO THE INSIDE AND COMPLETE WORK ON THE MASON RUN, REFUGEE ROAD AND HAMILTON ROAD STRUCTURES AS SHOWN.

PHASE 4

CROSSOVER I-270 INSIDE SOUTHBOUND LANE IN THE PHASE 3 CONFIGURATION. SHIFT REMAINING TWO SOUTHBOUND LANES TO THE OUTSIDE AND COMPLETE WORK ON THE MASON RUN, REFUGEE ROAD AND HAMILTON ROAD STRUCTURES AS SHOWN.

WORK ZONE 4 (NORFOLK SOUTHERN RAILROAD)

PHASE 1A

DROP THE OUTSIDE LANE OF SOUTHBOUND I-270 AND SHIFT REMAINING INSIDE LANE ONTO THE INSIDE SHOULDER. COMPLETE WORK ON THE NORFOLK SOUTHERN STRUCTURE AS SHOWN IN THE PLANS. THIS LANE REDUCTION SHALL LAST ONE WEEKEND AS PER PROPOSAL NOTE 140.

IN LIEU OF THE 2:1 LANE REDUCTION THE CONTRACTOR MAY ELECT TO UTILIZE A FULL CLOSURE OF THE I-270 MAINLINE WITH TRAFFIC DIVERTED TO THE CD ROAD TO COMPLETE THE PHASE 1A WORK. SEE THE APPROVED MAINTENANCE OF TRAFFIC (MOT) POLICY EXCEPTIONS NOTE ALONG WITH PROPOSAL NOTE 140 FOR ADDITIONAL DETAILS. THE I-270 SOUTHBOUND MAINLINE CLOSURE SHALL LAST ONE WEEKEND. SEE SHEETS 73M-73O FOR THE I-270 SOUTHBOUND MAINLINE CLOSURE DETAILS.

PHASE 1B

INSIDE LANE OF I-270 SOUTHBOUND REMAINS IN THE 1A CONFIGURATION. OPEN THE OUTSIDE LANE AND COMPLETE OUTSIDE BARRIER WORK AS SHOWN. ANY LANE CLOSURES DURING THE BARRIER WORK SHALL ONLY OCCUR DURING THE ALLOWABLE TIMES IN THE LANE VALUE CONTRACT TABLES.

PHASE 2A

DROP THE INSIDE LANE OF SOUTHBOUND I-270 AND SHIFT REMAINING OUTSIDE LANE ONTO THE OUTSIDE SHOULDER. COMPLETE WORK ON THE NORFOLK SOUTHERN RAILROAD STRUCTURE AS SHOWN IN THE PLANS. THIS LANE REDUCTION SHALL LAST ONE WEEKEND AS PER PROPOSAL NOTE 140.

IN LIEU OF THE 2:1 LANE REDUCTION THE CONTRACTOR MAY ELECT TO UTILIZE A FULL CLOSURE OF THE I-270 MAINLINE WITH TRAFFIC DIVERTED TO THE CD ROAD TO COMPLETE THE PHASE 2A WORK. SEE THE APPROVED MAINTENANCE OF TRAFFIC (MOT) POLICY EXCEPTIONS NOTE ALONG WITH PROPOSAL NOTE 140 FOR ADDITIONAL DETAILS. THE I-270 SOUTHBOUND MAINLINE CLOSURE SHALL LAST ONE WEEKEND. SEE SHEETS 73M-73O FOR THE I-270 SOUTHBOUND MAINLINE CLOSURE DETAILS.

PHASE 2B

OUTSIDE LANE OF I-270 SOUTHBOUND REMAINS IN THE 2A CONFIGURATION. OPEN THE INSIDE LANE AND COMPLETE INSIDE BARRIER WORK AS SHOWN. ANY LANE CLOSURES DURING THE BARRIER WORK SHALL ONLY OCCUR DURING THE ALLOWABLE TIMES IN THE LANE VALUE CONTRACT TABLES.

PHASE 2C (NOT SHOWN)

CLOSE I-270 SOUTHBOUND MAINLINE AND DIVERT TRAFFIC TO THE CD ROAD. COMPLETE FINAL BRIDGE DECK OVERLAY. SEE THE APPROVED MAINTENANCE OF TRAFFIC (MOT) POLICY EXCEPTIONS NOTE ALONG WITH PROPOSAL NOTE 140 FOR ADDITIONAL DETAILS. THE I-270 SOUTHBOUND MAINLINE CLOSURE SHALL LAST ONE WEEKEND. SEE SHEETS 73M-73O FOR THE I-270 SOUTHBOUND MAINLINE CLOSURE DETAILS.

PHASE 3A

CLOSE THE ENTRANCE RAMP FROM I-70 EAST TO I-270 SOUTH PRIOR TO THE START OF PHASE 3 AND DETOUR AS SHOWN IN THE PLANS. DROP INSIDE LANE OF THE SOUTHBOUND I-270 CD PRIOR TO THE I-70 INTERCHANGE. SHIFT REMAINING OUTSIDE SOUTHBOUND I-270 CD LANE TO THE INSIDE AND COMPLETE WORK ON THE NORFOLK SOUTHERN STRUCTURE AS SHOWN. THIS LANE REDUCTION SHALL LAST TWO WEEKENDS AS PER PROPOSAL NOTE 140.

PHASE 3B

OPEN THE ENTRANCE RAMP FROM I-70 EAST TO I-270 SOUTH AND OPEN INSIDE LANE OF THE SOUTHBOUND I-270 CD PRIOR TO THE I-70 INTERCHANGE. SHIFT RAMP TRAFFIC AS SHOWN IN THE PLANS AND COMPLETE OUTSIDE BARRIER WORK. ANY LANE CLOSURES DURING THE BARRIER WORK SHALL ONLY OCCUR DURING THE ALLOWABLE TIMES IN THE LANE VALUE CONTRACT TABLES. ANY RAMP CLOSURES DURING THE BARRIER WORK SHALL ONLY OCCUR DURING THE ALLOWABLE TIMES IN THE RAMP CLOSURE RESTRICTIONS TABLES.

PHASE 4A

DROP THE INSIDE LANE OF THE SOUTHBOUND I-270 CD PRIOR TO THE I-70 INTERCHANGE. SHIFT REMAINING OUTSIDE SOUTHBOUND I-270 CD LANE TO THE OUTSIDE AND COMPLETE WORK ON THE NORFOLK SOUTHERN STRUCTURE AS SHOWN. THIS LANE REDUCTION SHALL LAST TWO WEEKENDS AS PER PROPOSAL NOTE 140.

PHASE 4B

OUTSIDE SOUTHBOUND I-270 CD LANE REMAINS IN THE PHASE 4A CONFIGURATION. OPEN INSIDE SOUTHBOUND I-270 CD LANE. COMPLETE INSIDE BARRIER WORK ON THE NORFOLK SOUTHERN RAILROAD STRUCTURE AS SHOWN. ANY LANE CLOSURES DURING THE BARRIER WORK SHALL ONLY OCCUR DURING THE ALLOWABLE TIMES IN THE LANE VALUE CONTRACT TABLES. ANY RAMP CLOSURES DURING THE BARRIER WORK SHALL ONLY OCCUR DURING THE ALLOWABLE TIMES IN THE RAMP CLOSURE RESTRICTIONS TABLES.

DESIGN AGENCY



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DESIGNER

GKE

REVIEWER

MJC 01/05/24

PROJECT ID

112798

SHEET

P.25

TOTAL

617

REF NO.	SHEET NO.	STATION	DESCRIPTION	614	614	614	614	614	614	622	202	202			411	615	615	202	202	611	611	611	611	611	611	
				EACH	FT	FT	FT	FT	FT	FT	SY	FT			CY	SY	SY	FT	EACH	EACH	EACH	EACH	FT	FT	FT	
I-270 PRE-PHASE																										
SS-1	35	838+87.00 C/L	840+66.00 LT															180	1	1			180			
SS-2	36	868+00.00 LT	869+00.00 RT															115	1	1		1			115	
SS-3	36	870+11.00 LT	870+25.00 RT															37	2	2		1	1	27	10	
SS-4	36	870+07.00 RT	870+42.00 RT															20				1	1		16	
SS-5	37	943+75.00 C/L	945+93.00 LT															218	1	1			218			
SS-6	37	945+93.00 RT	945+93.00 LT															29	1	1			29			
SS-7	37	945+93.00 LT	950+00.00 C/L															409	1	1					409	
STEP 2																										
		815+00.00 TO	827+50.00					215																		
		827+50.00 TO	840+00.00	1	2383	1988	2124	775		548	161	100			16	162	345									
		840+00.00 TO	852+50.00		4466	1520	2500			2500	322	370			19	436	599									
		852+50.00 TO	865+00.00		3750	2420	2500			2500	1138					1874										
		865+00.00 TO	877+50.00	1	4150	2496	2500	316	80	2395	1385	900			67	2711	1375									
		877+50.00 TO	890+00.00		5000	2500	2500			2500	1425					2092										
		890+00.00 TO	902+50.00	1	5000	2500	2500			2393	1362					2540										
		902+50.00 TO	915+00.00		5000	2500	2500			2500	1061					1991										
		915+00.00 TO	927+50.00		5000	2500	2500			2500	1108					1274										
		927+50.00 TO	940+00.00		5000	2500	2500			2500	1671					2542										
		940+00.00 TO	952+50.00	1	5000	2500	2500			2141	1945	790			54	2379	1389									
		952+50.00 TO	965+00.00	1	2199	1582	1582	908		405																
		965+00.00 TO	977+50.00			366	366	1333																		
		977+50.00 TO	990+00.00																							
SUBTOTAL				5	46948	25372	26572	3547	444	22882	11579	2160			156	18002	3709	1008	7	7	1	2	454	10	524	16
TOTALS CARRIED TO GENERAL SUMMARY				5	8.9 MI	9.84 MI	3547	444	22882	11579	2160				156	18002	3709	1008	7	7	1	2	454	10	524	16

MAINTENANCE OF TRAFFIC SUBSUMMARY

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MJC 01/05/24

PROJECT ID
112798

SHEET TOTAL
P.38 | 617

REF NO.	SHEET NO.	STATION	614 WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	622 PORTABLE BARRIER, UNANCHORED	622 PORTABLE BARRIER, ANCHORED	614 WORK ZONE EDGE LINE, CLASS 1, 6", 642 PAINT(WHITE)	614 WORK ZONE EDGE LINE, CLASS 1, 6", 642 PAINT(YELLOW)	614 WORK ZONE CHANNELIZING LINE, CLASS 1, 12", 642 PAINT	614 WORK ZONE LANE LINE, CLASS 1, 6", 642 PAINT	614 WORK ZONE DOTTED LINE, CLASS 1, 6", 642 PAINT	615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	202 PAVEMENT REMOVED
			EACH	FT	FT	FT	FT	FT	FT	FT	SY	SY
I-270 - WORK ZONE 1												
PHASE 1												
76		718+48.00 TO 727+50.00				600				600		
77		727+50.00 TO 740+00.00				1250	680	980		180		
78		740+00.00 TO 752+50.00	1	521	72	1250	1250	1250				
79		752+50.00 TO 765+00.00				1250	1250	1250				
80		765+00.00 TO 777+50.00	1	295		1250	1250	1250				
81		777+50.00 TO 790+00.00		240	72	1092	1250	1250				
82		790+00.00 TO 791+42.00					142	142				
PHASE 2A												
85		721+50.00 TO 727+50.00				600				600		
86		727+50.00 TO 740+00.00				1250	680	980		180		
87		740+00.00 TO 752+50.00	1	568	72	1250	1250	1250			611	488
88		752+50.00 TO 765+00.00				1250	1250	1250			970	832
89		765+00.00 TO 777+50.00	1	381		1250	1250	1250			969	662
90		777+50.00 TO 788+82.00		240	72	1132	832	1132			923	786
											370	294
PHASE 2B												
92		727+50.00 TO 740+00.00				680		980				
93		740+00.00 TO 752+50.00	1	550		1250		1250				
94		752+50.00 TO 765+00.00				1250		1250				
95		765+00.00 TO 777+50.00	1	253		1250		1250				
96		777+50.00 TO 790+00.00		312		832		1132				
PHASE 3												
98		736+86.00 TO 742+50.00				264	564	564				
99		742+50.00 TO 755+00.00	1	575	72	1250	1250	1250				
100		755+00.00 TO 767+50.00				1250	1250	1250				
101		767+50.00 TO 780+00.00		185	36	1250	1250	1250				
102		780+00.00 TO 792+50.00	1	414	36	1250	1250	1250				
103		792+50.00 TO 805+00.00				510	1250	810		350		
104		805+00.00 TO 809+30.00					430			430		
PHASE 4A												
108		737+81.00 TO 742+50.00				469	169	469			109	73
109		742+50.00 TO 755+00.00	1	551	72	1250	1250	1250			764	675
110		755+00.00 TO 767+50.00				1250	1250	1250			910	745
111		767+50.00 TO 780+00.00		185	36	1250	1250	1250			755	635
112		780+00.00 TO 792+50.00	1	386	36	1250	1250	1250			907	808
113		792+50.00 TO 804+37.00				1187	17	317		780	13	10
PHASE 4B												
117		730+00.00 TO 742+50.00				169		469				
118		742+50.00 TO 755+00.00	1	528		1250		1250				
119		755+00.00 TO 767+50.00				1250		1250				
120		767+50.00 TO 780+00.00		221		1250		1250				
121		780+00.00 TO 792+50.00	1	322		1250		1250				
122		792+50.00 TO 805+00.00				17		317				
SUBTOTAL			12	6727	576	36303	23513	35792		3120	7303	6009
TOTALS CARRIED TO GENERAL SUMMARY			12	6727	576	11.33 MI		35792		3120	7303	6009

MAINTENANCE OF TRAFFIC SUBSUMMARY

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DESIGNER

CJS

REVIEWER

MJC 01/05/24

PROJECT ID

112798

SHEET TOTAL

P.39 | 617

REF NO.	SHEET NO.	STATION TO STATION	614		622		622		614		614		614		614		606					
			WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	EACH	PORTABLE BARRIER, UNANCHORED	FT	PORTABLE BARRIER, 50", AS PER PLAN	FT	PORTABLE BARRIER, ANCHORED	FT	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT(WHITE)	FT	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT(YELLOW)	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	FT	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	FT	ANCHOR ASSEMBLY, TYPE E	EACH
I-270 - WORK ZONE 3																						
PHASE 1																						
	166	817+50.00 TO 830+00.00							929	357	1602											
	167	830+00.00 TO 842+50.00							1948	698	698											
	168	842+50.00 TO 855+00.00							1250													
	169	855+00.00 TO 867+50.00	1	517					1633	691	1482							463				
	170	867+50.00 TO 880+00.00	2	671	1041				3403	3512	2500											
	171	880+00.00 TO 892+50.00		310	1250	72			3750	3750	1628	872										
	172	892+50.00 TO 905+00.00			1250				3750	3750		2500										
	173	905+00.00 TO 917+50.00	2	1076	1250	72			3750	3750	2300	200										
	174	917+50.00 TO 930+00.00	1	671	1250	72			3557	3750	2500											
	175	930+00.00 TO 942+50.00			1250				2500	3750	1048	2400										
	176	942+50.00 TO 955+00.00	1		398				2000	2449	2630	1518										
	177	955+00.00 TO 962+90.00							459	459	1580											
PHASE 2																						
	182	842+50.00 TO 855+00.00										170										
	183	855+00.00 TO 867+50.00							471	138	500	610										
	184	867+50.00 TO 880+00.00	1	174					1964	1918	345	191										
	185	880+00.00 TO 892+50.00		179		72			1250	1250		1250										
	186	892+50.00 TO 905+00.00							1250	1250		1250										
	187	905+00.00 TO 917+50.00		688		72			1250	1250		1250										
	188	917+50.00 TO 930+00.00		628		72			1250	1250	850	400										
	189	930+00.00 TO 942+50.00							490	490	490											
PHASE 3																						
	195	851+56.00 TO 855+00.00							44	44	344											
	196	855+00.00 TO 867+50.00							1450	1450	1471	279										
	197	867+50.00 TO 880+00.00	1		1165				3323	3442	1492	1089										
	198	880+00.00 TO 892+50.00	2	498	1250	72			3750	3750	1596	904										
	199	892+50.00 TO 905+00.00			1250				3750	3750		2500										
	200	905+00.00 TO 917+50.00	1	714	1250	72			3750	3750	2116	384										
	201	917+50.00 TO 930+00.00	1	1105	1250	72			3750	3750	2500			1								
	202	930+00.00 TO 942+50.00		1250					3750	3750	20	2480										
	203	942+50.00 TO 955+00.00			387				3250	2898	2330	174										
	204	955+00.00 TO 963+49.00							849		303			811								
PHASE 4																						
	212	855+00.00 TO 867+50.00										500										
	213	867+50.00 TO 880+00.00							422	1150	1350											
	214	880+00.00 TO 892+50.00	1	522		72			1250	1250	98	1152										
	215	892+50.00 TO 905+00.00							1250	1250		1250										
	216	905+00.00 TO 917+50.00		518		72			1250	1250	591	659										
	217	917+50.00 TO 930+00.00		883		72			1250	1250	1250											
	218	930+00.00 TO 942+50.00							1250	1250	1250											
	219	942+50.00 TO 955+00.00							378	898	1602											
	220	955+00.00 TO 967+50.00									1698											
SUBTOTAL			14	10404	14241	864		71571	69344	40665	23482	1274	1									
TOTALS CARRIED TO GENERAL SUMMARY			14	10404	14241	864		26.69 MI		40665	4.45 MI	1274	1									

MAINTENANCE OF TRAFFIC SUBSUMMARY			
DESIGN AGENCY			
DESIGNER		CIS	
REVIEWER		MJC 01/05/24	
PROJECT ID		112798	
SHEET	TOTAL	P.41	617

REF NO.	SHEET NO.	STATION TO STATION	614	622	622	614	614	614	614	614
			WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	PORTABLE BARRIER, UNANCHORED	PORTABLE BARRIER, ANCHORED	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT(WHITE)	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT(YELLOW)	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT
			EACH	FT	FT	FT	FT	FT	FT	FT
I-270 - WORK ZONE 4										
PHASE 1A										
226	990+50.00	TO 1003+00.00		19	36	315	315			
227	1003+00.00	TO 1015+50.00	1	485	36	1250	1250			
228	1015+50.00	TO 1028+00.00				1250	181		679	
229	1028+00.00	TO 1040+50.00				101			101	
PHASE 1B										
232	990+50.00	TO 1003+00.00		55		315	315			
233	1003+00.00	TO 1015+00.00	1	357		1250	1250			
234	1015+50.00	TO 1028+00.00				231	531			
PHASE 2A										
236	990+50.00	TO 1003+00.00		20	36	1250	1250			
237	1003+00.00	TO 1015+50.00	1	618	36	1250	1250			
238	1015+50.00	TO 1028+00.00				419	1250		441	
239	1028+00.00	TO 1040+50.00				1250			339	
PHASE 2B										
242	990+50.00	TO 1003+00.00		55			445	445		
243	1003+00.00	TO 1015+50.00	1	618			1250	1250		
244	1015+50.00	TO 1028+00.00					494	494		
PHASE 3A										
246	990+00.00	TO 1003+00.00		29	36	1300	1300			
247	1003+00.00	TO 1015+50.00	1	348	36	1250	1250			
248	1015+50.00	TO 1028+00.00				67	1250			
249	1028+00.00	TO 1040+50.00				781			781	
PHASE 3B										
252	990+50.00	TO 1003+00.00		93		548	150			
253	1003+00.00	TO 1010+00.00	1	175		624	444			
PHASE 4A										
254	989+91.00	TO 990+50.00				59	59			
255	990+50.00	TO 1003+00.00		37	36	1250	1250			
256	1003+00.00	TO 1015+50.00	1	497	36	1250	1250			
257	1015+50.00	TO 1028+00.00				66	1250			
258	1028+00.00	TO 1040+50.00				781			780	
PHASE 4B										
261	990+50.00	TO 1003+00.00		73		438	438			
262	1003+00.00	TO 1015+50.00	1	496		1250	1250			
263	1015+50.00	TO 1028+00.00				67	67			
SUBTOTAL			8	3976	288	14046	20456	4285	1755	3121
TOTALS CARRIED TO GENERAL SUMMARY			8	3976	288	6.54 MI	4285	0.34 MI	3121	

MAINTENANCE OF TRAFFIC SUBSUMMARY

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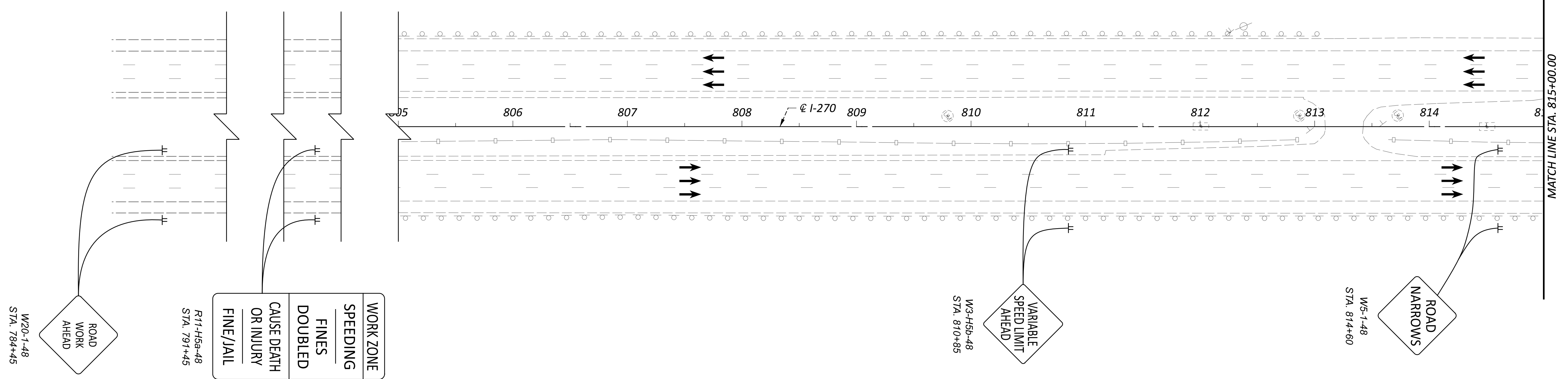
MJC 01/05/24

PROJECT ID

112798

SHEET TOTAL

P.42 617



WZ0-1-48
STA. 78+45

R11-H58-48
STA. 791+45

WORK ZONE
SPEEDING
FINES DOUBLED
CAUSE DEATH OR INJURY
FINE/JAIL

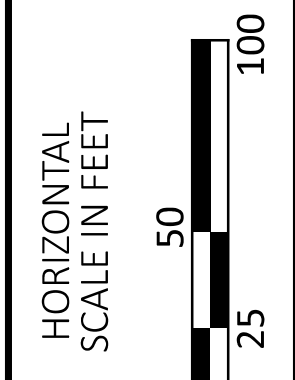
W3-H58-48
STA. 810+85

W5-1-48
STA. 814+60

MATCH LINE STA. 815+00.00

LEGEND

- | | | | | | | | |
|---|--|----|--|--|-------------------------------|---|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | ○ | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | ➔ | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - BEGIN WORK TO STA. 815+00

DESIGN AGENCY



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SMB

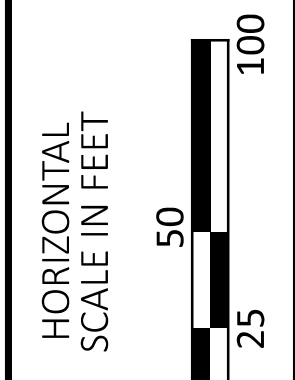
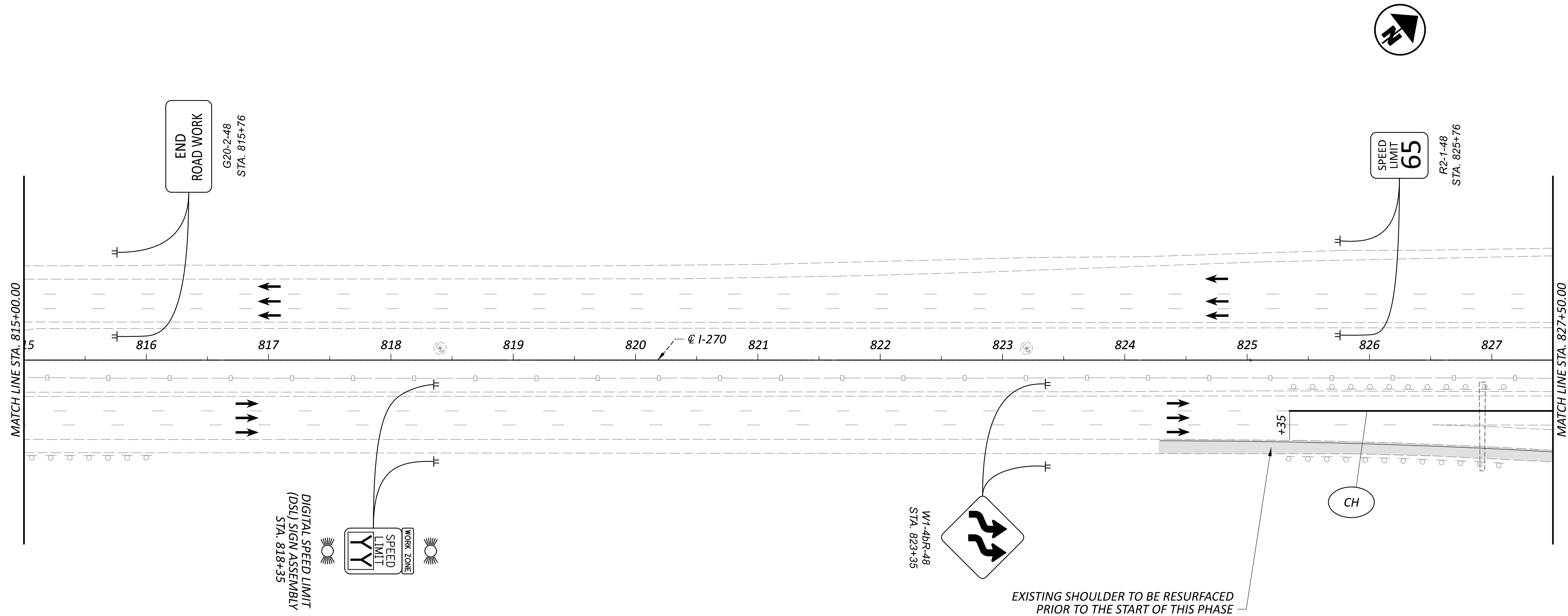
REVIEWER
MJC 07/09/24

PROJECT ID
112798

SHEET	TOTAL
P.42B	617

LEGEND

- | | | | | | | | |
|--|--|--|--|--|-------------------------------|--|---------------------|
| | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 815+00 TO STA. 827+50

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DESIGNER
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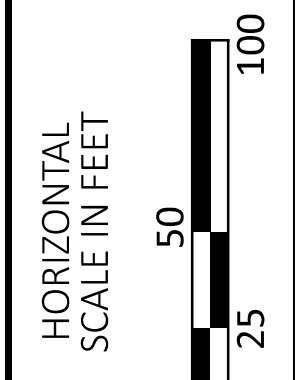
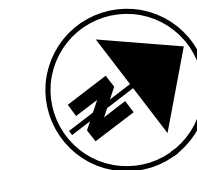
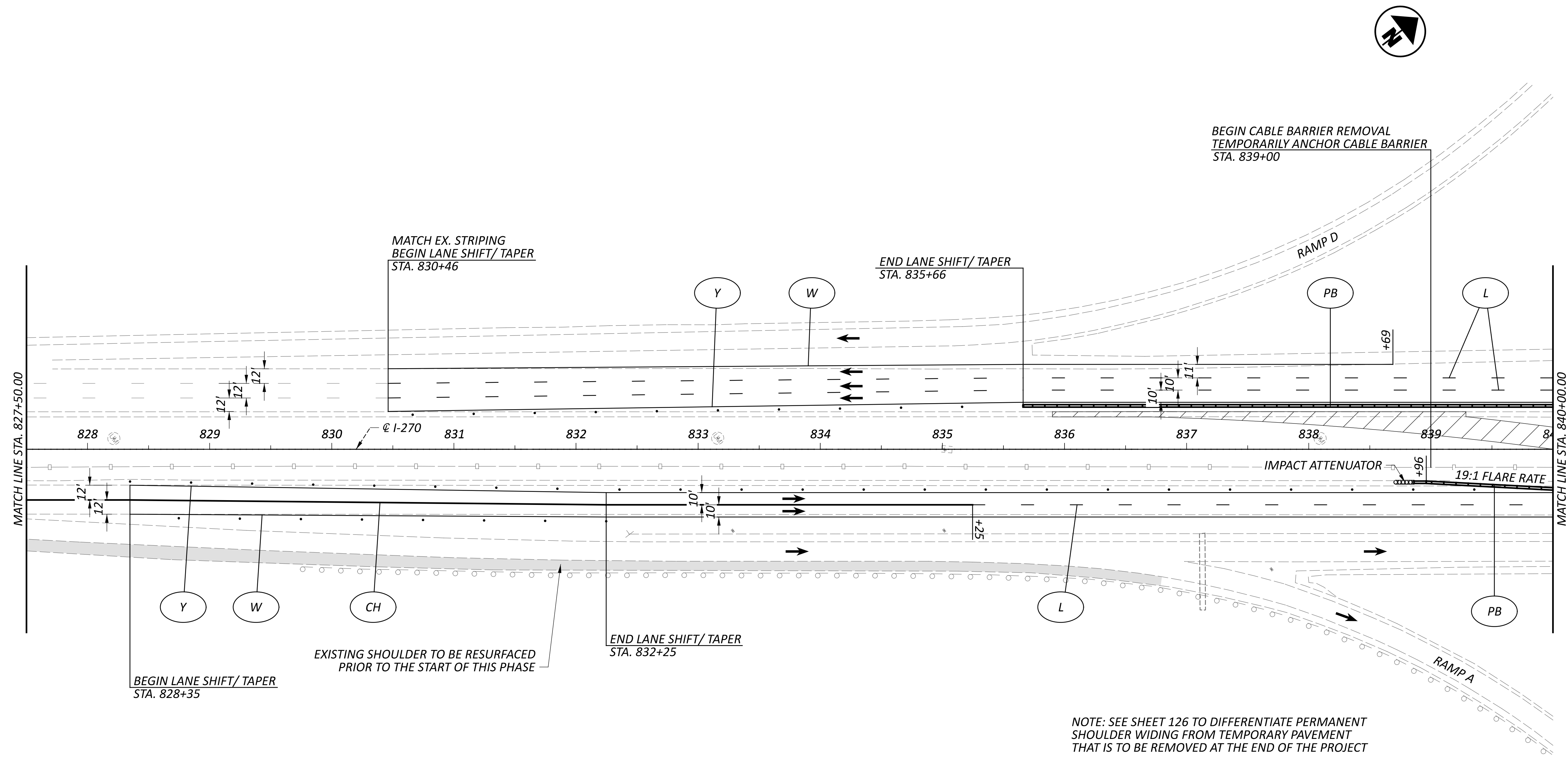
REVIEWER
MJC 07/09/24

PROJECT ID
112798

SHEET TOTAL
P.42C 617

LEGEND

- | | | | | | | | |
|--|--|--|--|--|-------------------------------|--|---------------------|
| | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



**MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 827+50 TO STA. 840+00**

DESIGN AGENCY

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950 Goodale Blvd, Suite 180
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DESIGNER

SMB

REVIEWER

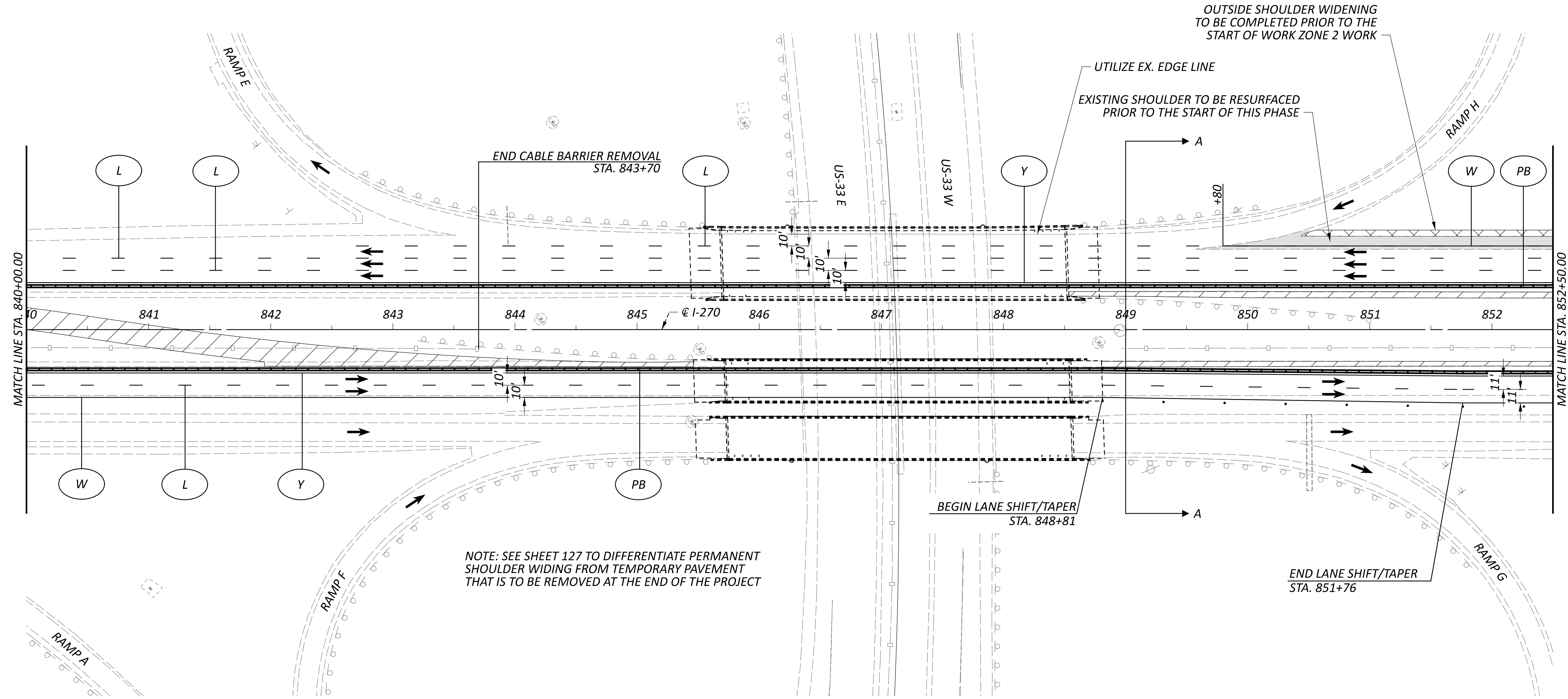
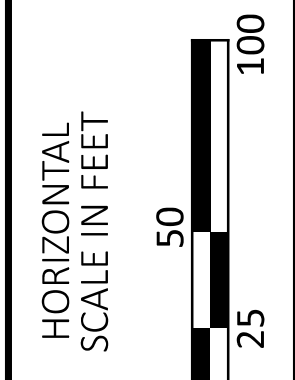
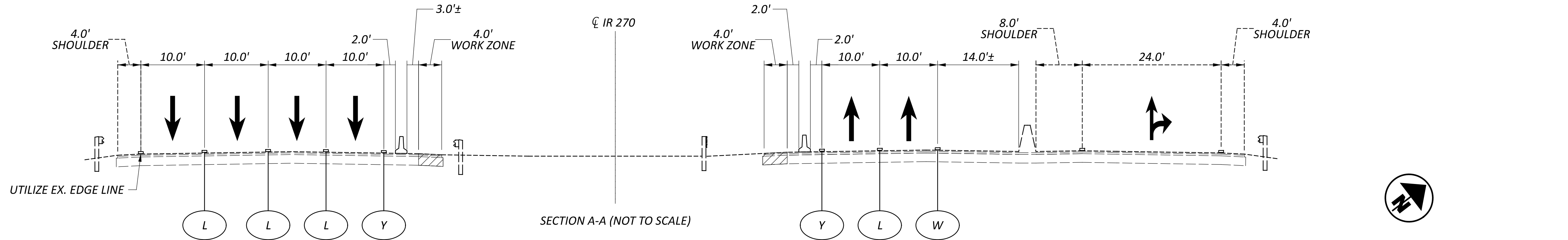
MJC 07/09/24

PROJECT ID

112798

SHEET TOTAL

P.42D 617



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 840+00 TO STA. 852+50

LEGEND

- | | | | | | | | |
|-----|--|------|--|----------------------|-------------------------------|-----|---------------------|
| (W) | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | (CH) | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | [Hatched Box] | SHOULDER REPLACEMENT/WIDENING | (O) | CONSTRUCTION BARREL |
| (Y) | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | (D) | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | [Solid Grey Box] | TEMPORARY PAVEMENT | (→) | DIRECTION OF TRAVEL |
| (L) | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | (PB) | ITEM 622 - PORTABLE BARRIER | [Diagonal Lines Box] | WORK ZONE | (=) | PORTABLE BARRIER |

DESIGN AGENCY

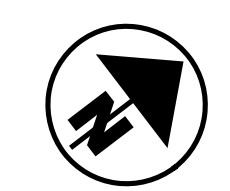
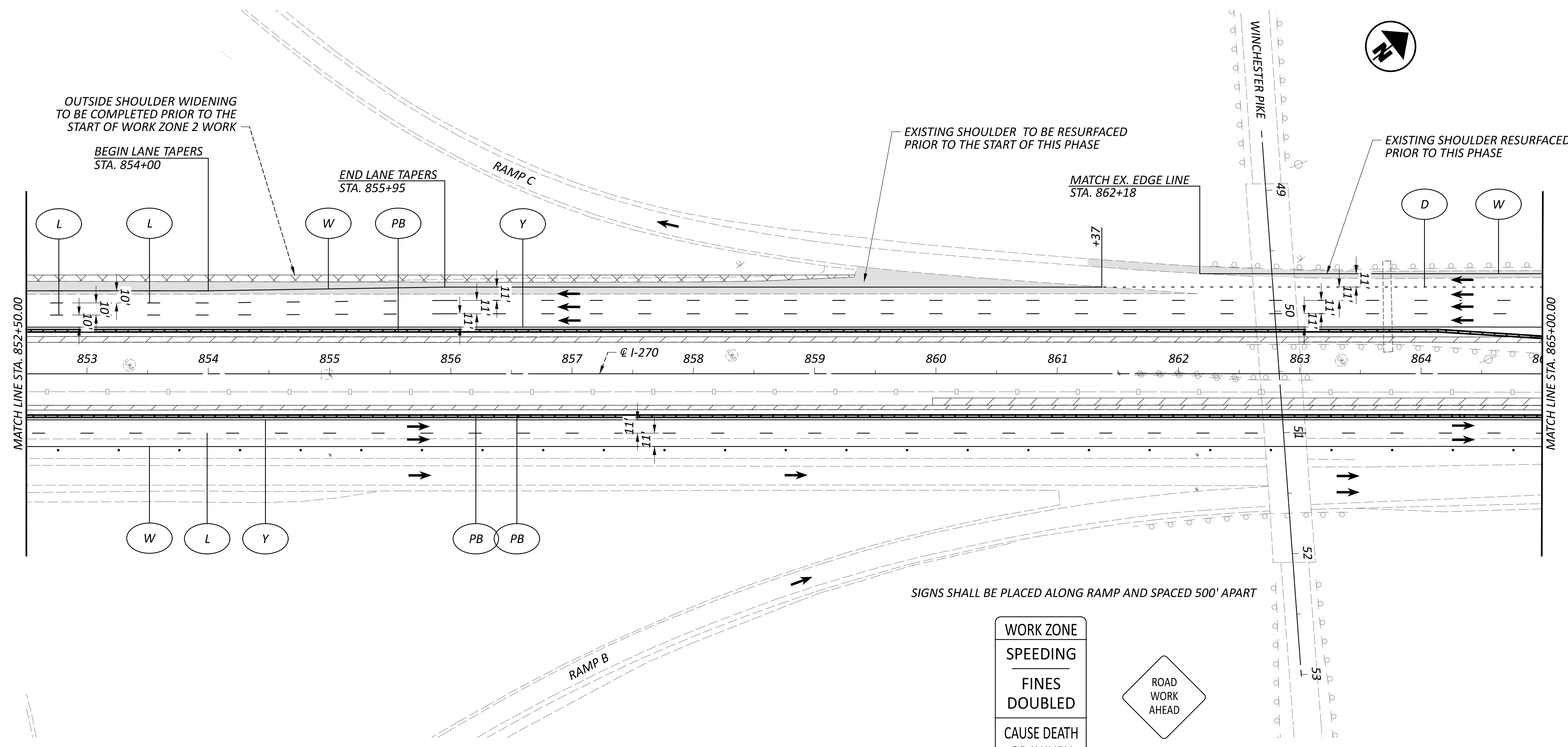
 E.L. ROBINSON ENGINEERING
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DESIGNER
 SMB

REVIEWER
 MJC 07/09/24

PROJECT ID
 112798

SHEET TOTAL
 P.42E 617



LEGEND

- ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT
- ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT
- ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT

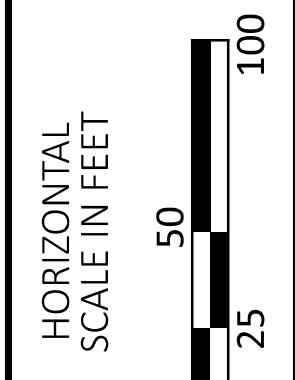
- ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT
- ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT
- ITEM 622 - PORTABLE BARRIER

- SHOULDER REPLACEMENT/WIDENING
- TEMPORARY PAVEMENT
- WORK ZONE

- CONSTRUCTION BARREL
- DIRECTION OF TRAVEL
- PORTABLE BARRIER

WORK ZONE
 SPEEDING
 FINES
 DOUBLED
 CAUSE DEATH
 OR INJURY
 FINE/JAIL
 R11-H5a-48

ROAD
 WORK
 AHEAD
 W20-1-48

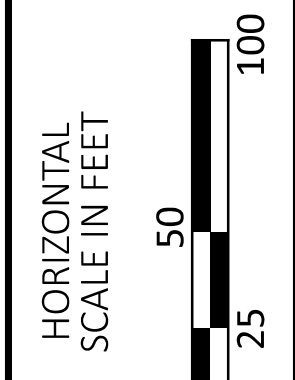
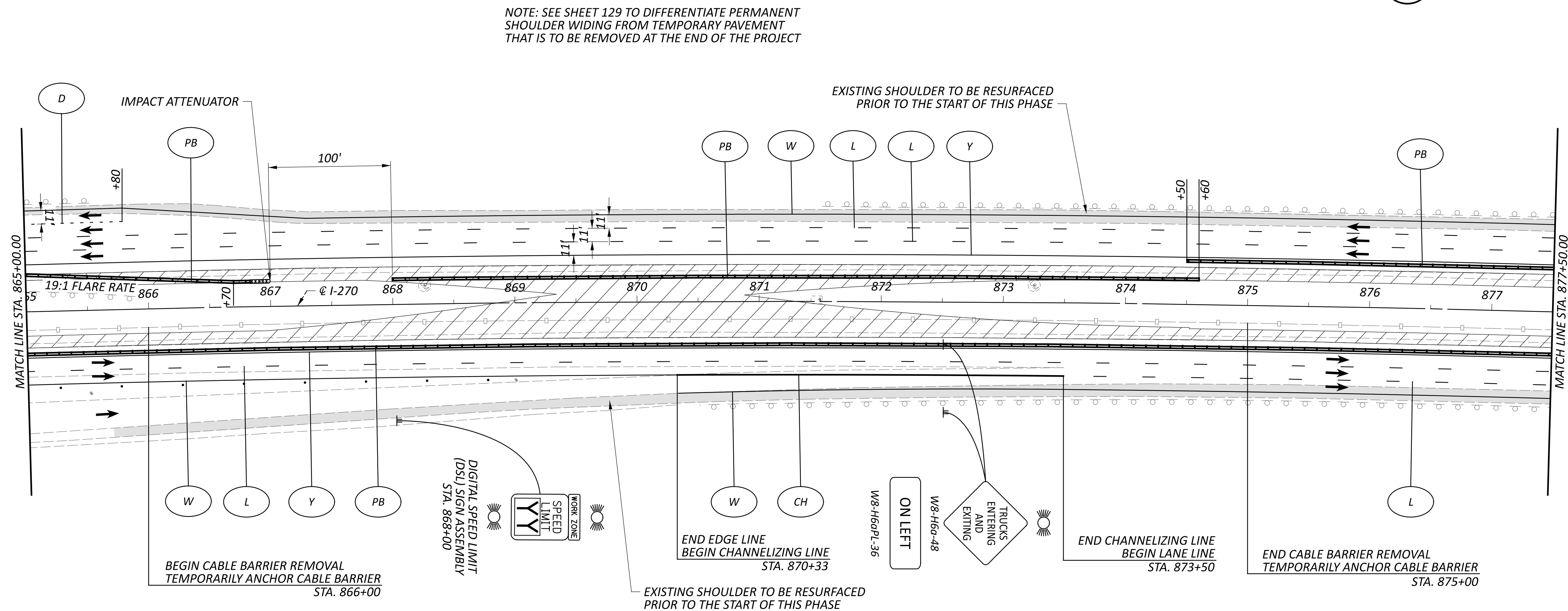


**MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 852+50 TO STA. 865+00**

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SMB	
REVIEWER	
MJC 07/09/24	
PROJECT ID	
112798	
SHEET	TOTAL
P.42F	617

LEGEND

- | | | | | | | | |
|--|--|--|--|--|-------------------------------|--|---------------------|
| | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 865+00 TO STA. 877+50

DESIGN AGENCY

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DESIGNER

SMB

REVIEWER

MJC 07/09/24

PROJECT ID

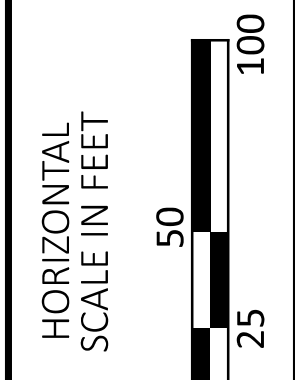
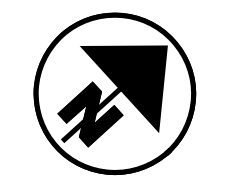
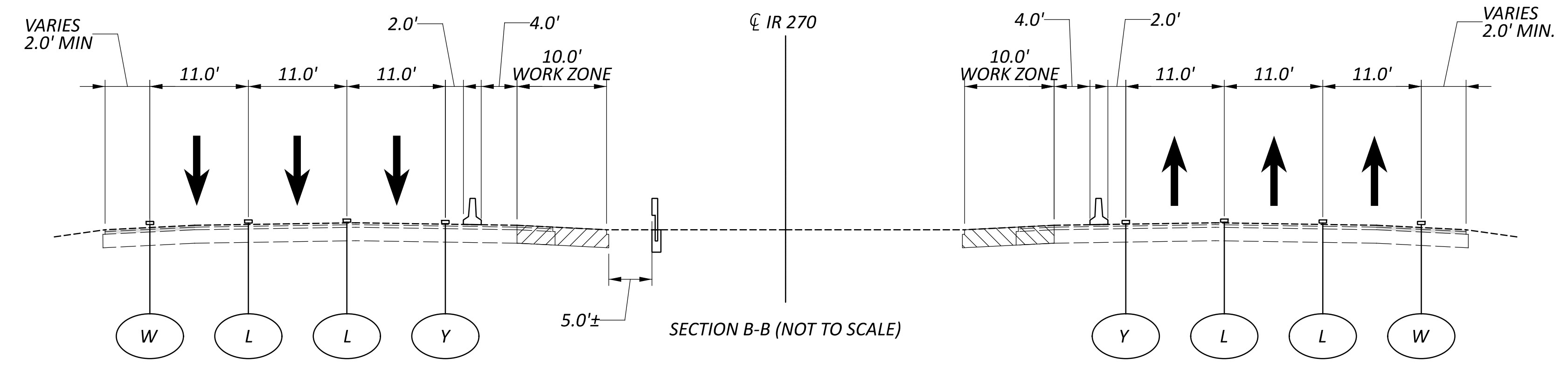
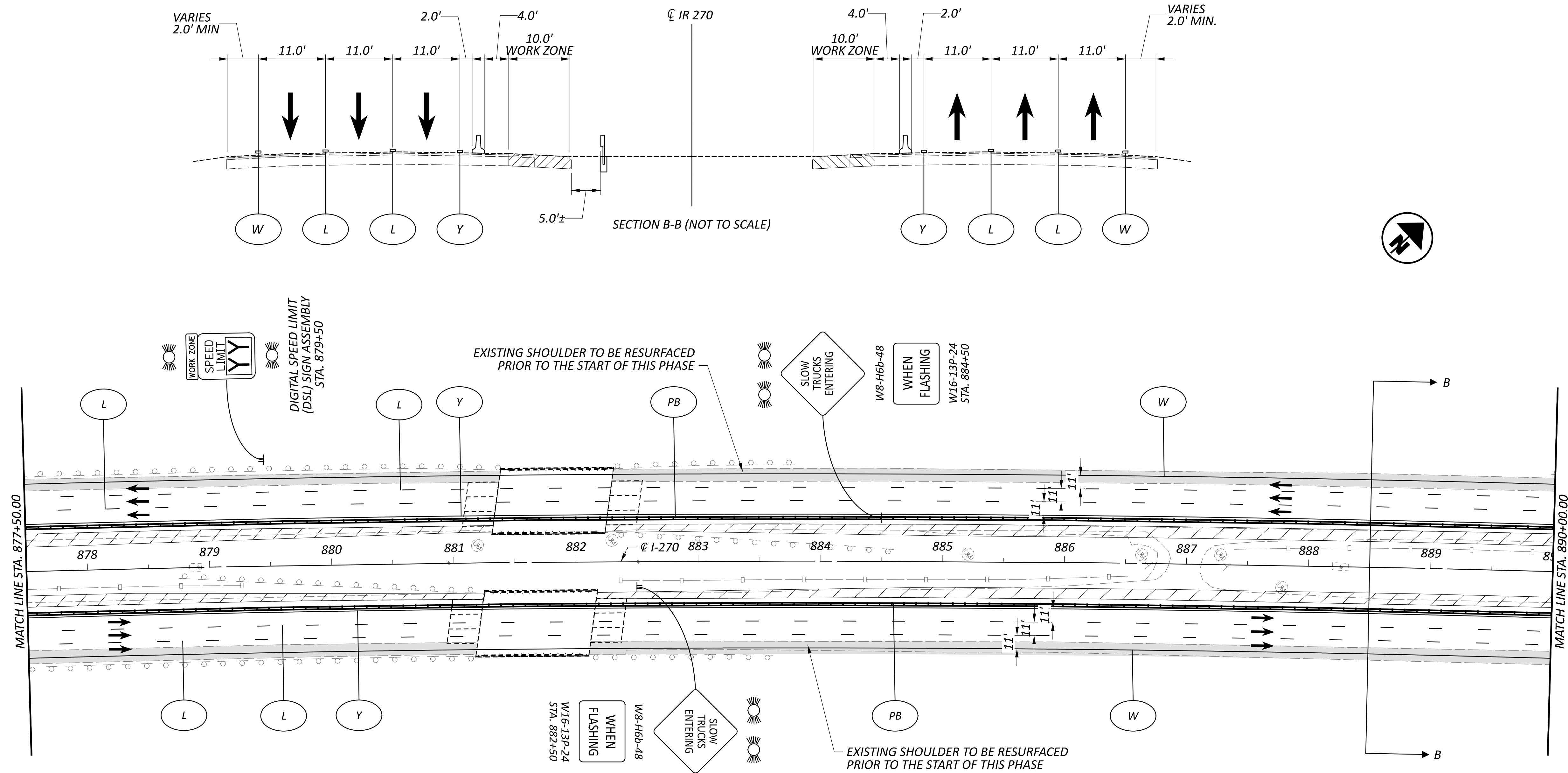
112798

SHEET TOTAL

P.42G 617

LEGEND

- | | | | | | | | |
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| | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



**MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 877+50 TO STA. 890+00**

DESIGN AGENCY

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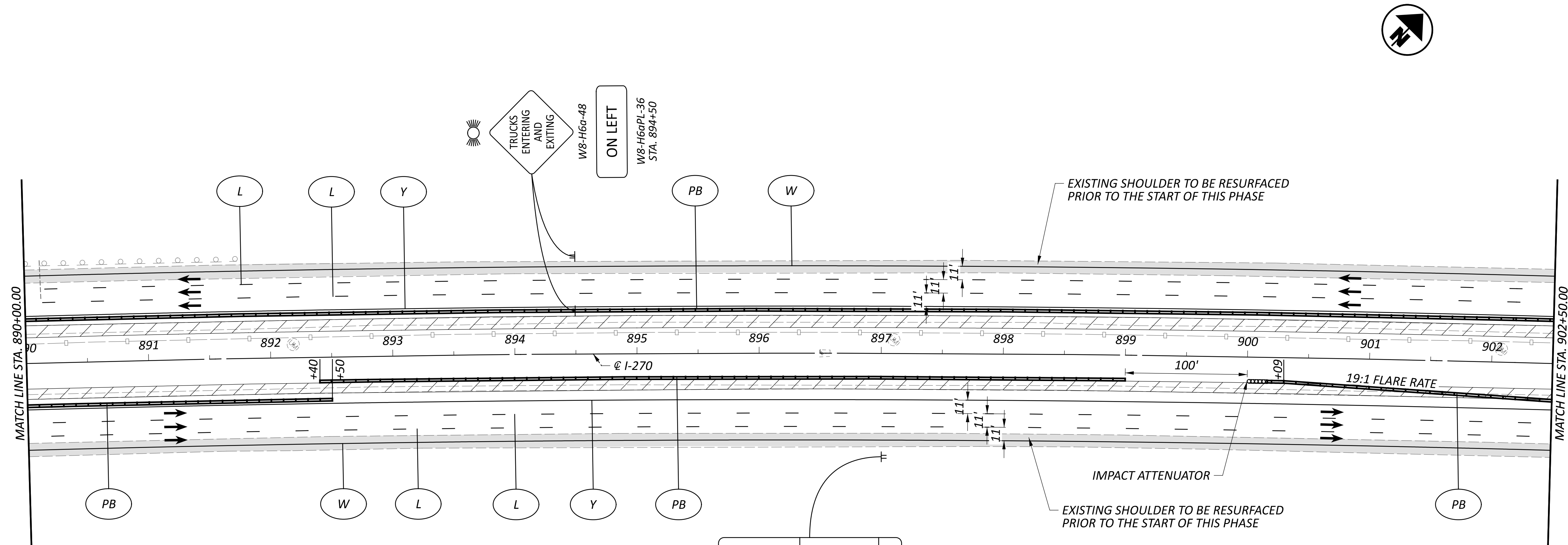
REVIEWER
 MJC 07/09/24

PROJECT ID
 112798

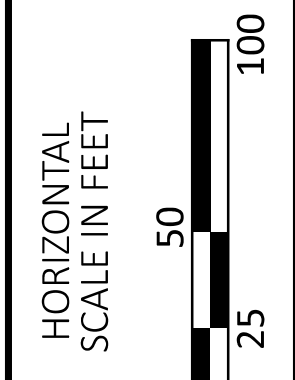
SHEET TOTAL
 P.42H 617

LEGEND

- | | | | | | | | |
|---|--|----|--|--|-------------------------------|--|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



R11-H5d-48
 STA. 897+00
 CAUSE DEATH
 OR INJURY
 FINE/JAIL
 WORK ZONE
 SPEEDING
 FINES
 DOUBLED



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 890+00 TO STA. 902+50

DESIGN AGENCY



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SMB

REVIEWER

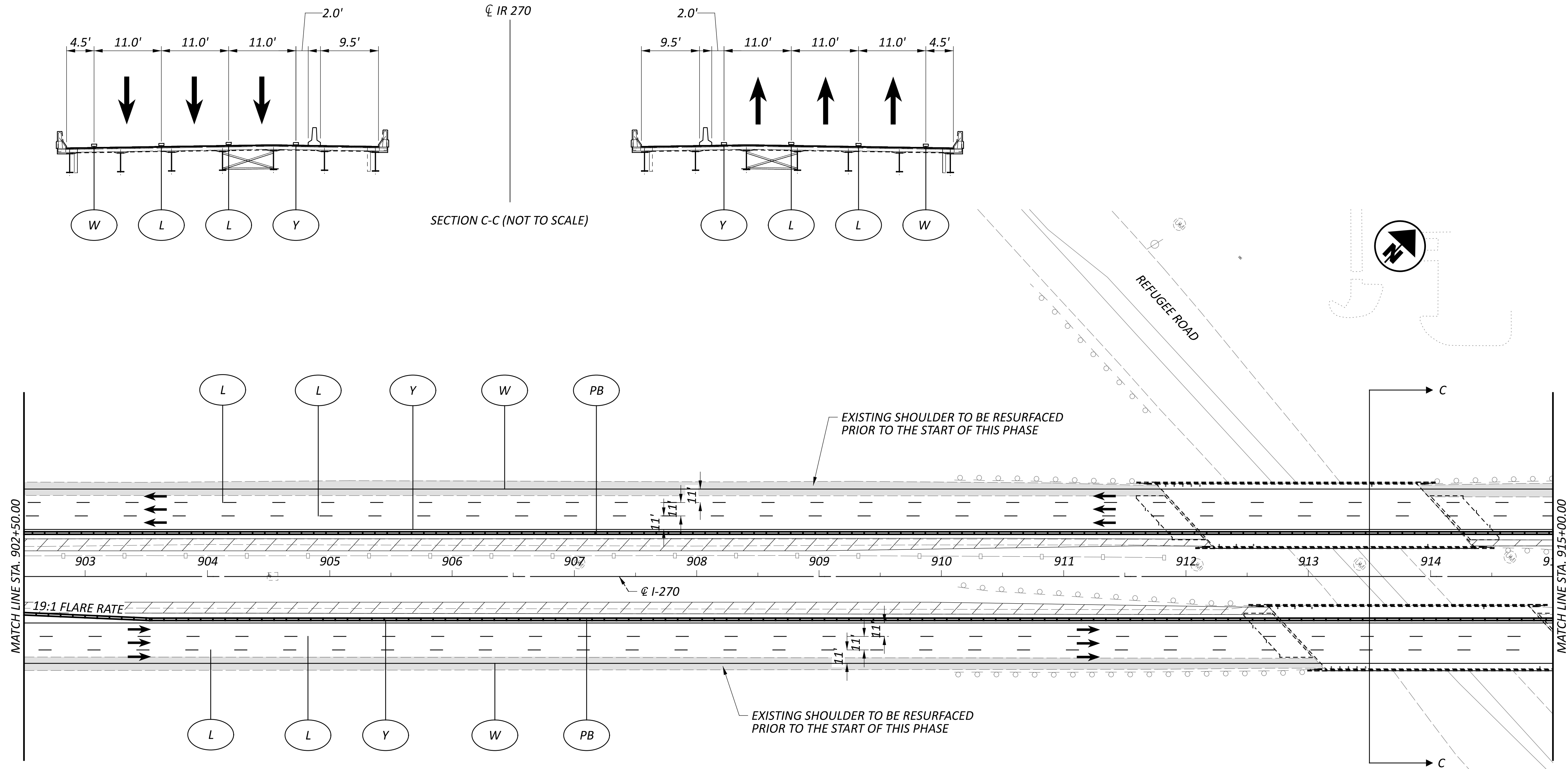
MJC 07/09/24

PROJECT ID

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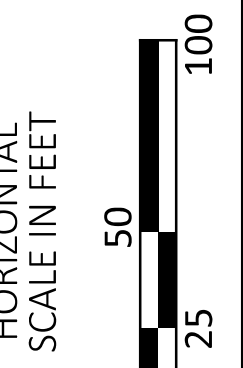
SHEET TOTAL

P.421 617



LEGEND

- | | | | | | | | |
|-----|--|------|--|----------------------|-------------------------------|-----|---------------------|
| (W) | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | (CH) | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | [Hatched Box] | SHOULDER REPLACEMENT/WIDENING | (O) | CONSTRUCTION BARREL |
| (Y) | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | (D) | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | [Dark Grey Box] | TEMPORARY PAVEMENT | (→) | DIRECTION OF TRAVEL |
| (L) | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | (PB) | ITEM 622 - PORTABLE BARRIER | [Diagonal Lines Box] | WORK ZONE | (=) | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 902+50 TO STA. 915+00

DESIGN AGENCY



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SMB

REVIEWER

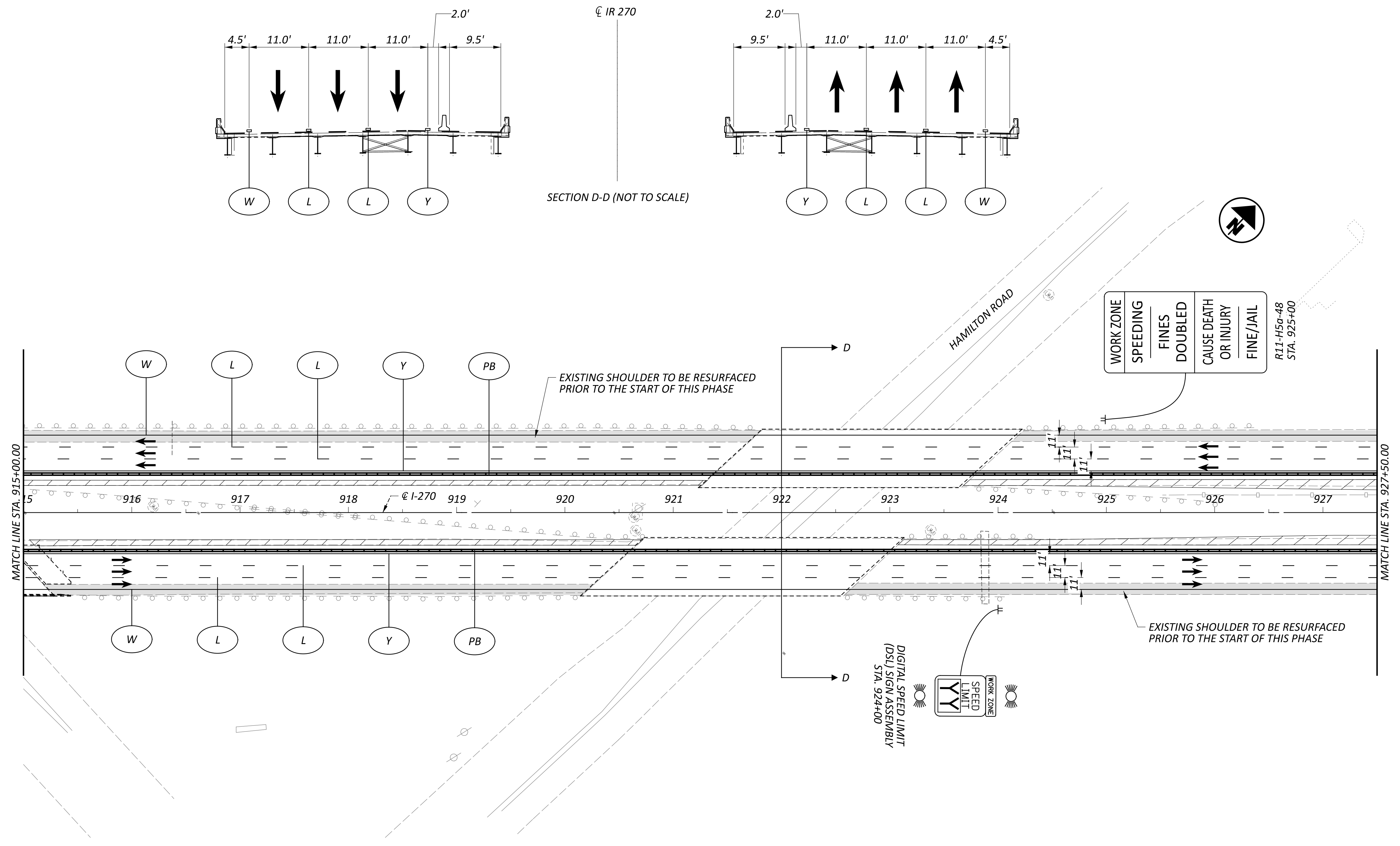
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PROJECT ID

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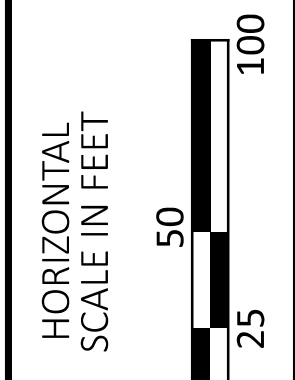
SHEET TOTAL

P.421 617



LEGEND

- | | | | | | | | |
|---|--|----|--|--|-------------------------------|--|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



**MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 915+00 TO STA. 927+50**

DESIGN AGENCY

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




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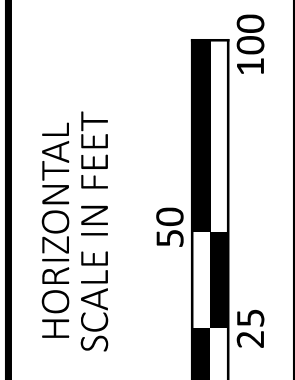
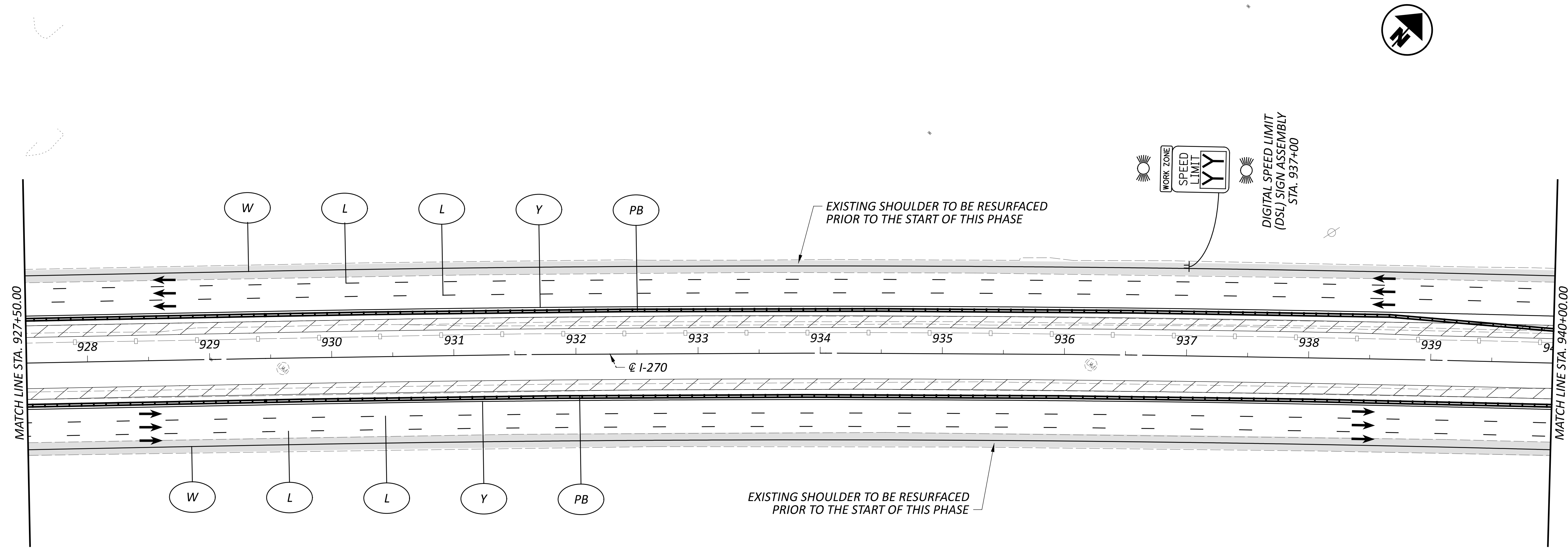
REVIEWER
MJC 07/09/24

PROJECT ID
112798

SHEET TOTAL
P.42K 617

LEGEND

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|  W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT |  CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  O | CONSTRUCTION BARREL |
|  Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT |  D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT |  | TEMPORARY PAVEMENT |  → | DIRECTION OF TRAVEL |
|  L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT |  PB | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  ——— | PORTABLE BARRIER |



**MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 927+50 TO STA. 940+00**

DESIGN AGENCY

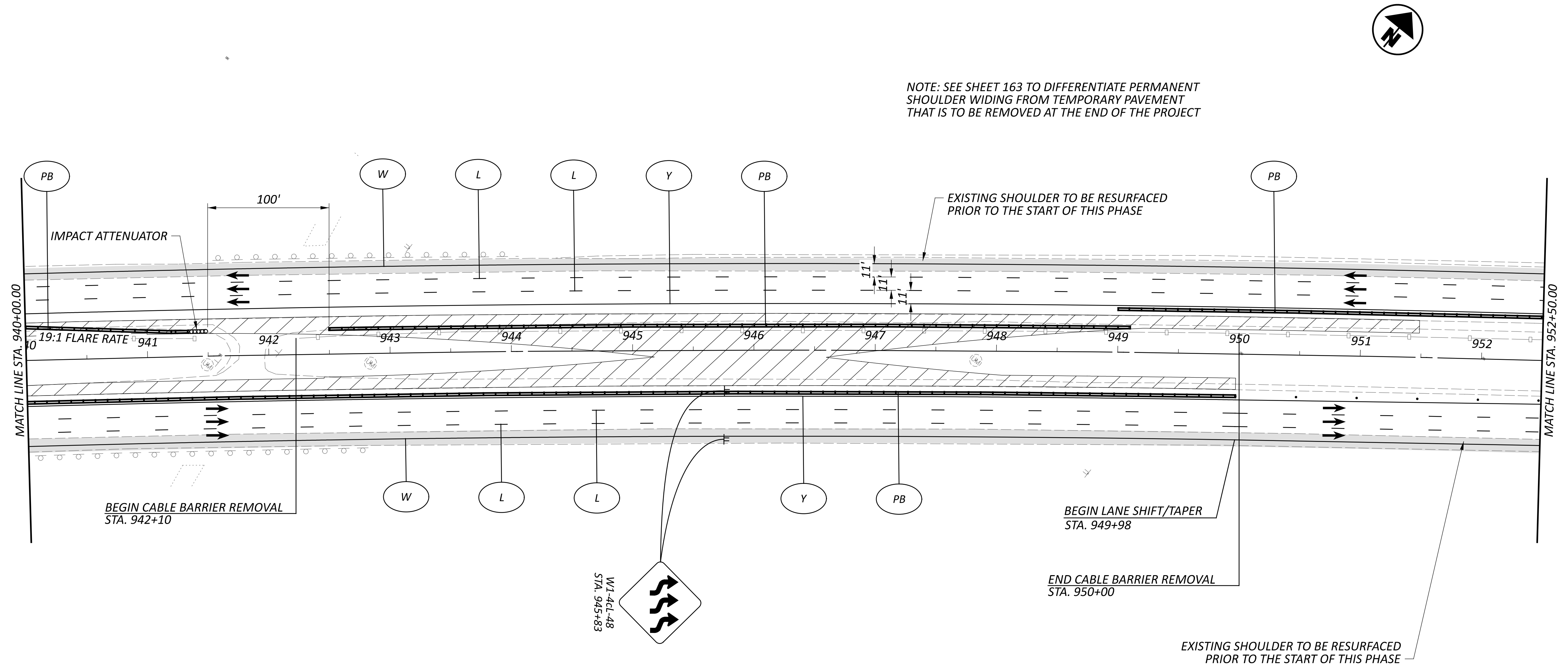
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MJC 07/09/24

PROJECT ID
112798

SHEET TOTAL
P.42L 617



NOTE: SEE SHEET 163 TO DIFFERENTIATE PERMANENT SHOULDER WIDING FROM TEMPORARY PAVEMENT THAT IS TO BE REMOVED AT THE END OF THE PROJECT

LEGEND

- | | | | | | | | |
|---|--|----|--|--|-------------------------------|--|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |

DESIGN AGENCY

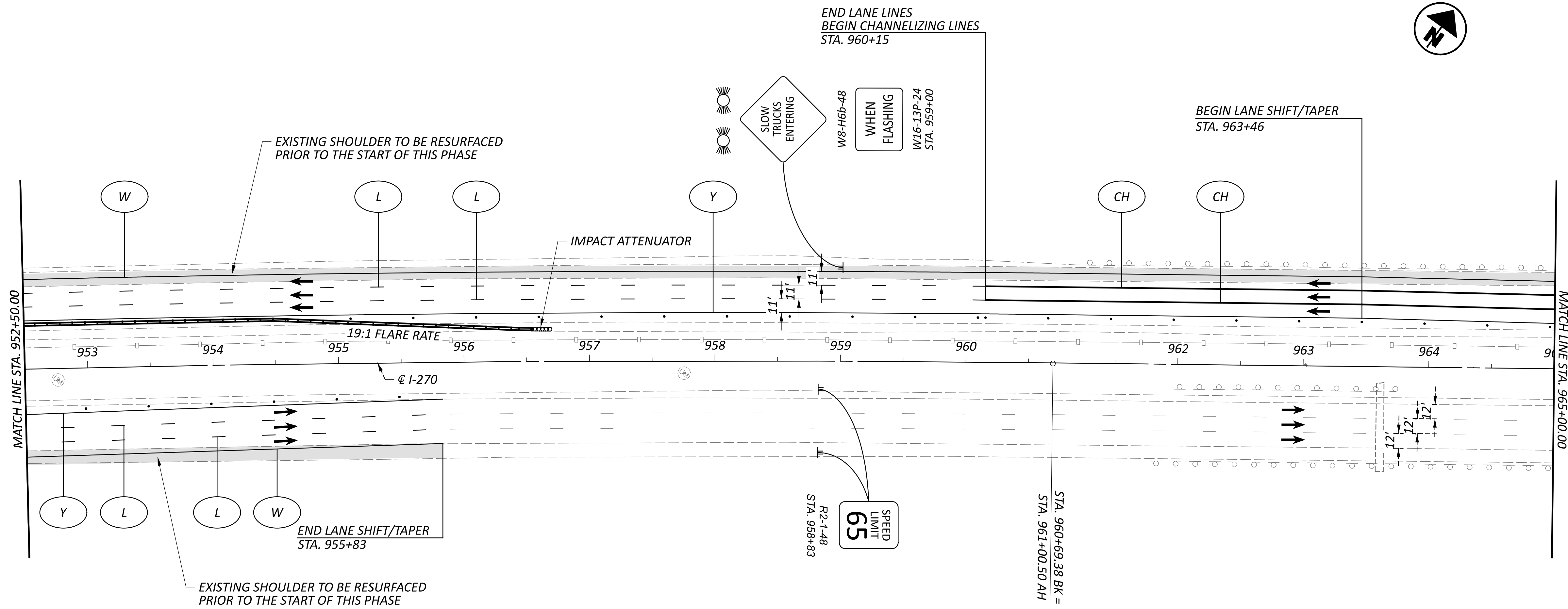
E.L. ROBINSON
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SMB

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MJC 07/09/24

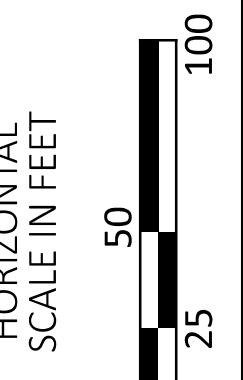
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SHEET TOTAL
P.42M 617



LEGEND

- | | | | | | | | | | |
|---|--|----|--|----|--|--|-------------------------------|--|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL | | PORTABLE BARRIER |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | | | |



**MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 952+50 TO STA. 965+00**

DESIGN AGENCY



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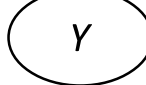







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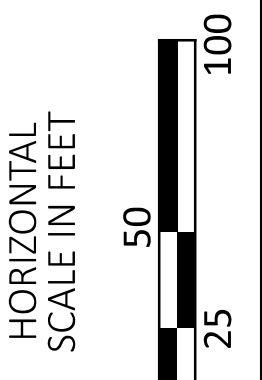
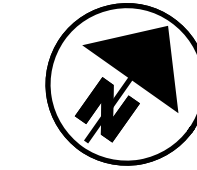
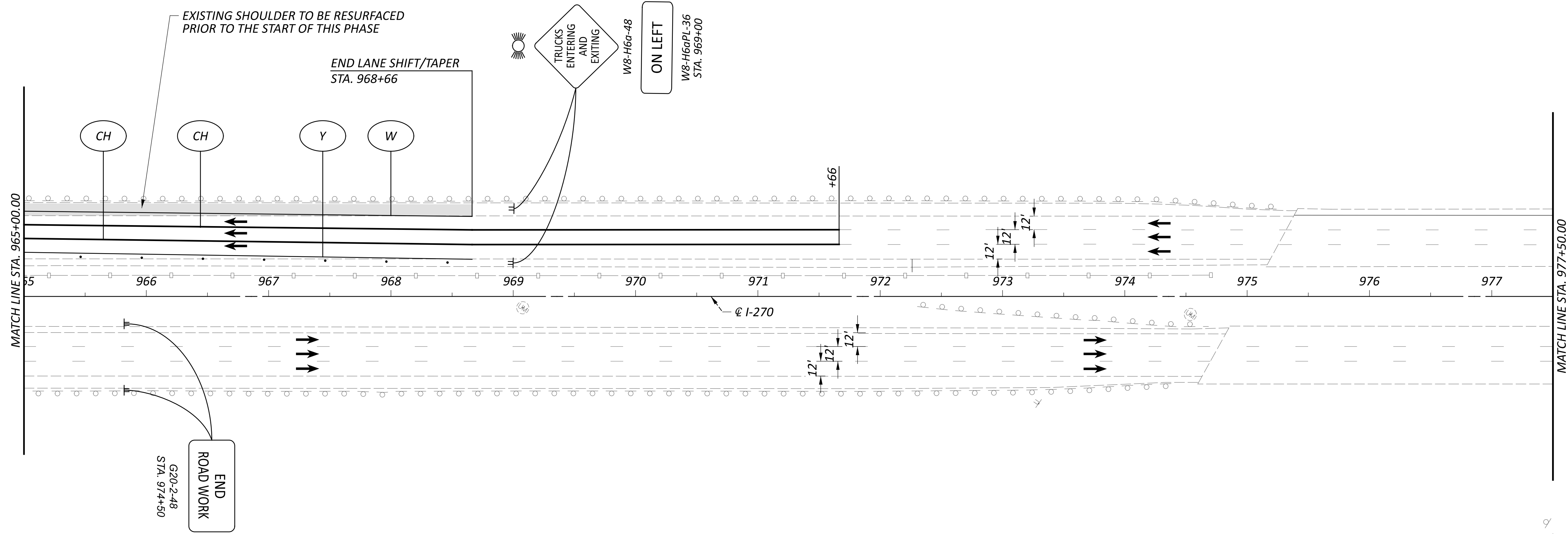
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MJC 07/09/24

PROJECT ID
112798

SHEET TOTAL
P.42N 617

LEGEND










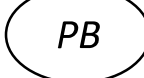


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|---|--|---|--|---|-------------------------------|---|---------------------|
|  W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT |  CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  O | CONSTRUCTION BARREL |
|  Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT |  D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT |  PB | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |

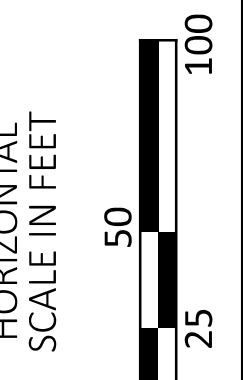
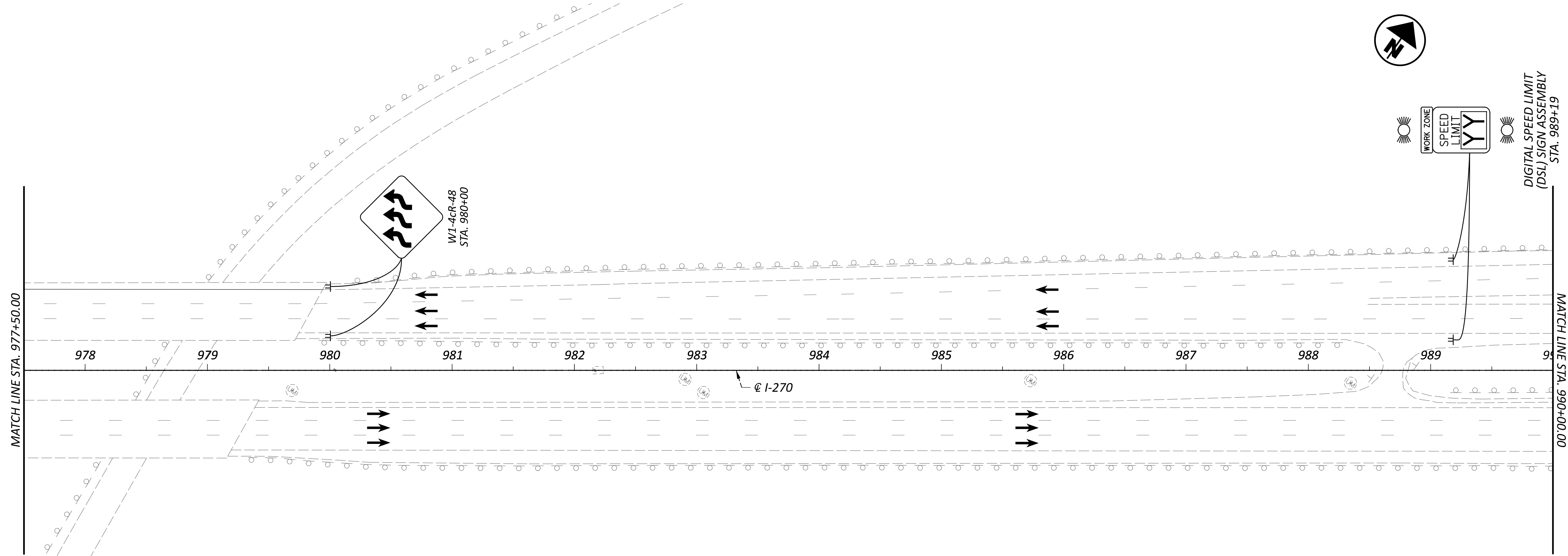


MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 965+00 TO STA. 977+50

DESIGN AGENCY	
	
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REVIEWER	
MJC 07/09/24	
PROJECT ID	
112798	
SHEET	TOTAL
P.420	617

LEGEND

- | | | | | | | | |
|---|--|--|--|---|-------------------------------|---|---------------------|
|  | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  | CONSTRUCTION BARREL |
|  | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT |  | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |



**MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 977+50 TO STA. 990+00**

DESIGN AGENCY



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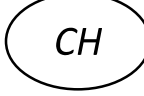


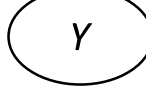





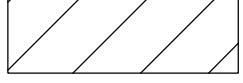

DESIGNER
SMB

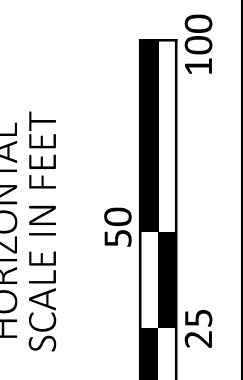
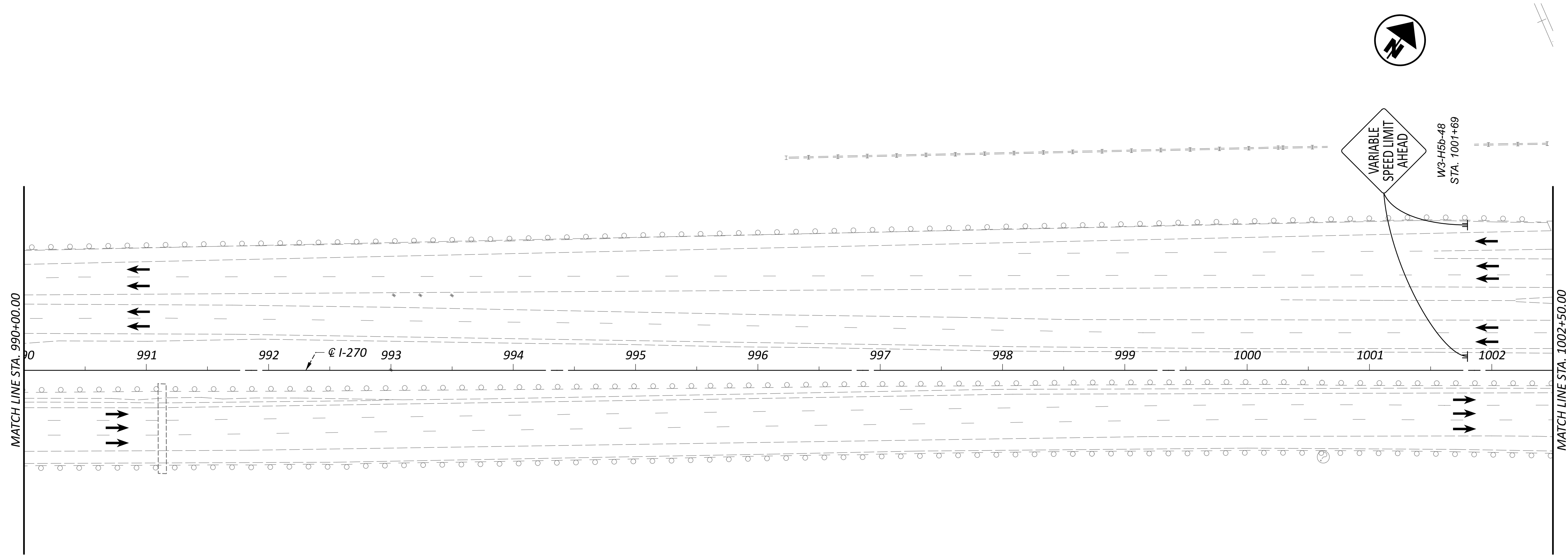
REVIEWER
MJC 07/09/24

PROJECT ID
112798

SHEET TOTAL
P.42P 617

LEGEND

- | | | | | | | | |
|---|--|--|--|---|-------------------------------|---|---------------------|
|  | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 642 PAINT |  | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  | CONSTRUCTION BARREL |
|  | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 642 PAINT |  | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 642 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  | ITEM 614 - WORK LANE LINE, CLASS I, 642 PAINT |  | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |



**MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 990+00 TO STA. 1002+50**

DESIGN AGENCY



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 950 Goodale Blvd, Suite 180
 Grandview Heights, Ohio 44131

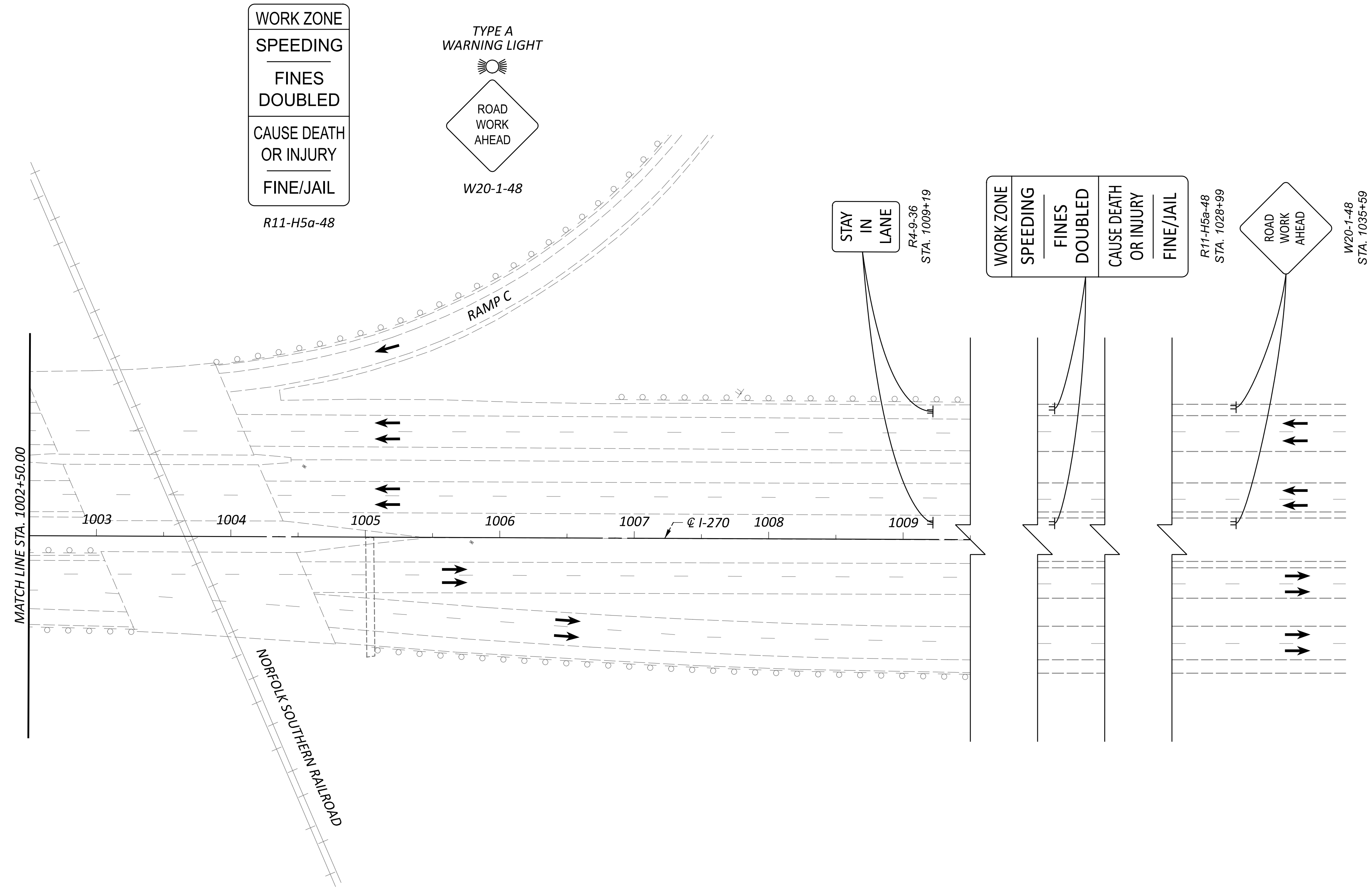
DESIGNER
SMB

REVIEWER
MJC 07/09/24

PROJECT ID
112798

SHEET TOTAL
P.42Q 617

SIGNS SHALL BE PLACED ALONG RAMP AND SPACED 500' APART



WORK ZONE
 SPEEDING
 FINES DOUBLED
 CAUSE DEATH OR INJURY
 FINE/JAIL
 R11-H5a-48

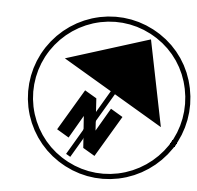
TYPE A WARNING LIGHT

 ROAD WORK AHEAD
 W20-1-48

STAY IN LANE
 R4-9-36
 STA. 1009+19

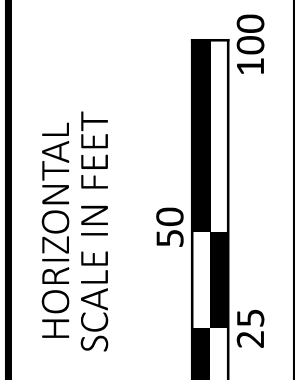
WORK ZONE
 SPEEDING
 FINES DOUBLED
 CAUSE DEATH OR INJURY
 FINE/JAIL
 R11-H5a-48
 STA. 1028+99

ROAD WORK AHEAD
 W20-1-48
 STA. 1035+59



LEGEND

- | | | | | | | | |
|---|--|----|--|--|-------------------------------|--|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 642 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 642 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 642 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 642 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 1002+50 TO END WORK

DESIGN AGENCY



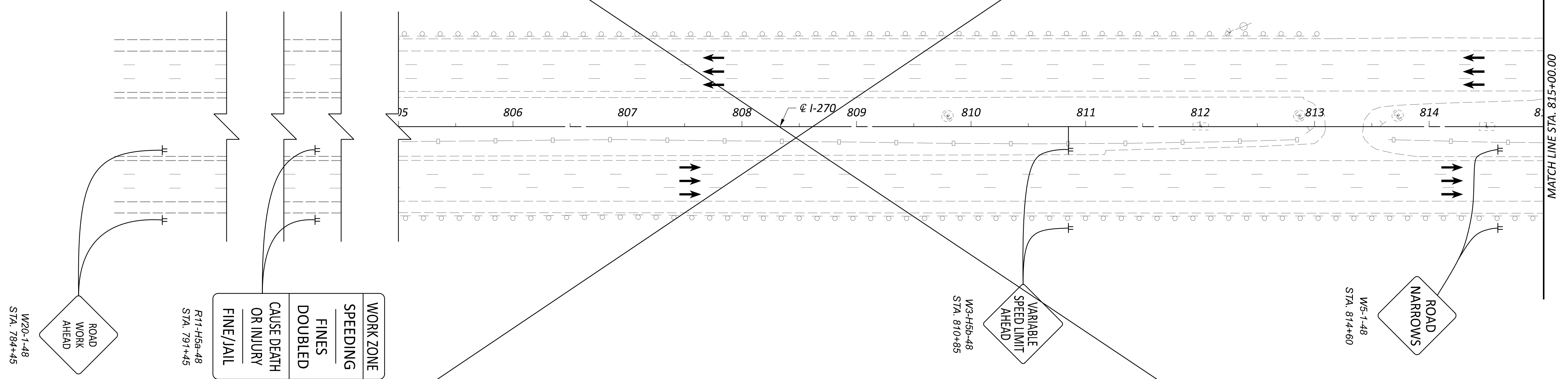
DESIGNER
 SMB

REVIEWER
 MJC 07/09/24

PROJECT ID
 112798

SHEET TOTAL
 P.42R 617

SHEET REMOVED



LEGEND

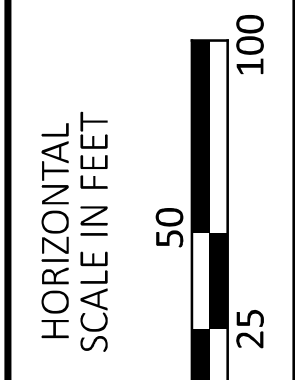
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|---|--|----|--|--|-------------------------------|---|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | O | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |

WORK ZONE
 SPEEDING
 FINES
 DOUBLED
 CAUSE DEATH
 OR INJURY
 FINE/JAIL
 R11-H58-48
 STA. 791+45

ROAD
 WORK
 AHEAD
 W20-148
 STA. 784+45

VARIABLE
 SPEED LIMIT
 AHEAD
 W3-H58-48
 STA. 810+85

ROAD
 NARROWS
 W5-F-48
 STA. 814+60



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - BEGIN WORK TO STA. 815+00

DESIGN AGENCY



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SMB

REVIEWER

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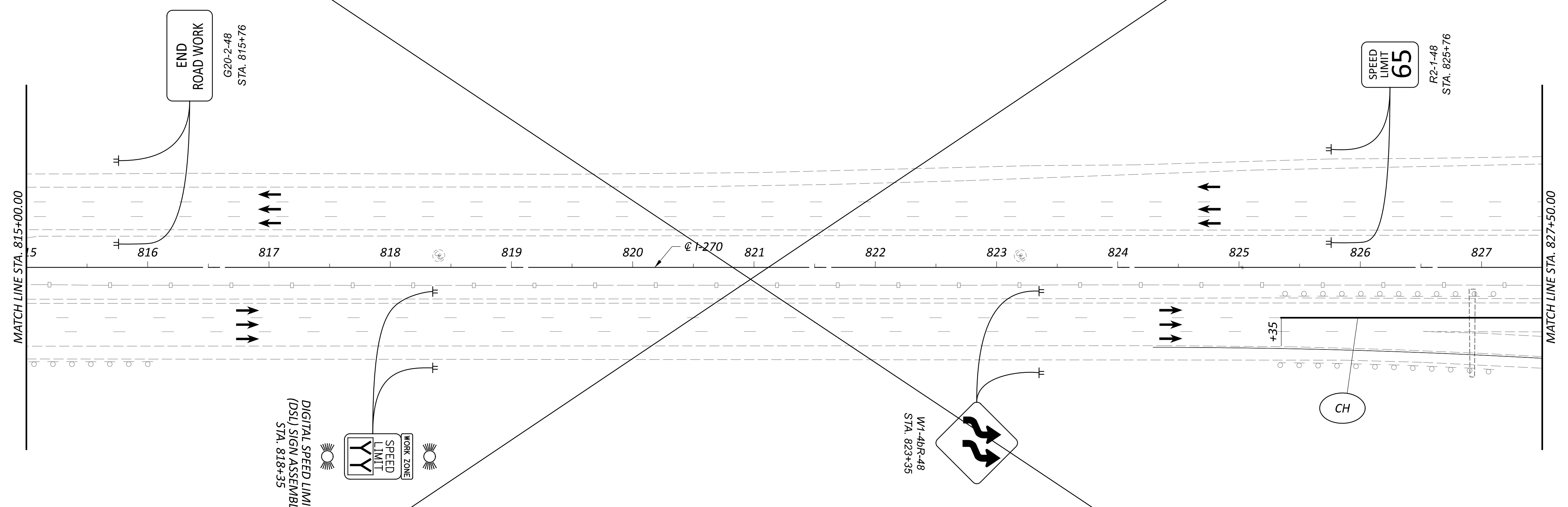
PROJECT ID

112798











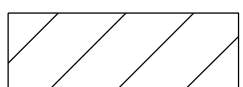

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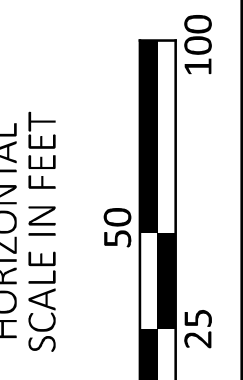
P.43 617

SHEET REMOVED



LEGEND

- | | | | | | | | |
|---|--|--|--|---|-------------------------------|---|---------------------|
|  | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  | CONSTRUCTION BARREL |
|  | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT |  | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - STA. 815+00 TO STA. 827+50

DESIGN AGENCY



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DESIGNER

SMB

REVIEWER

MJC 01/05/24

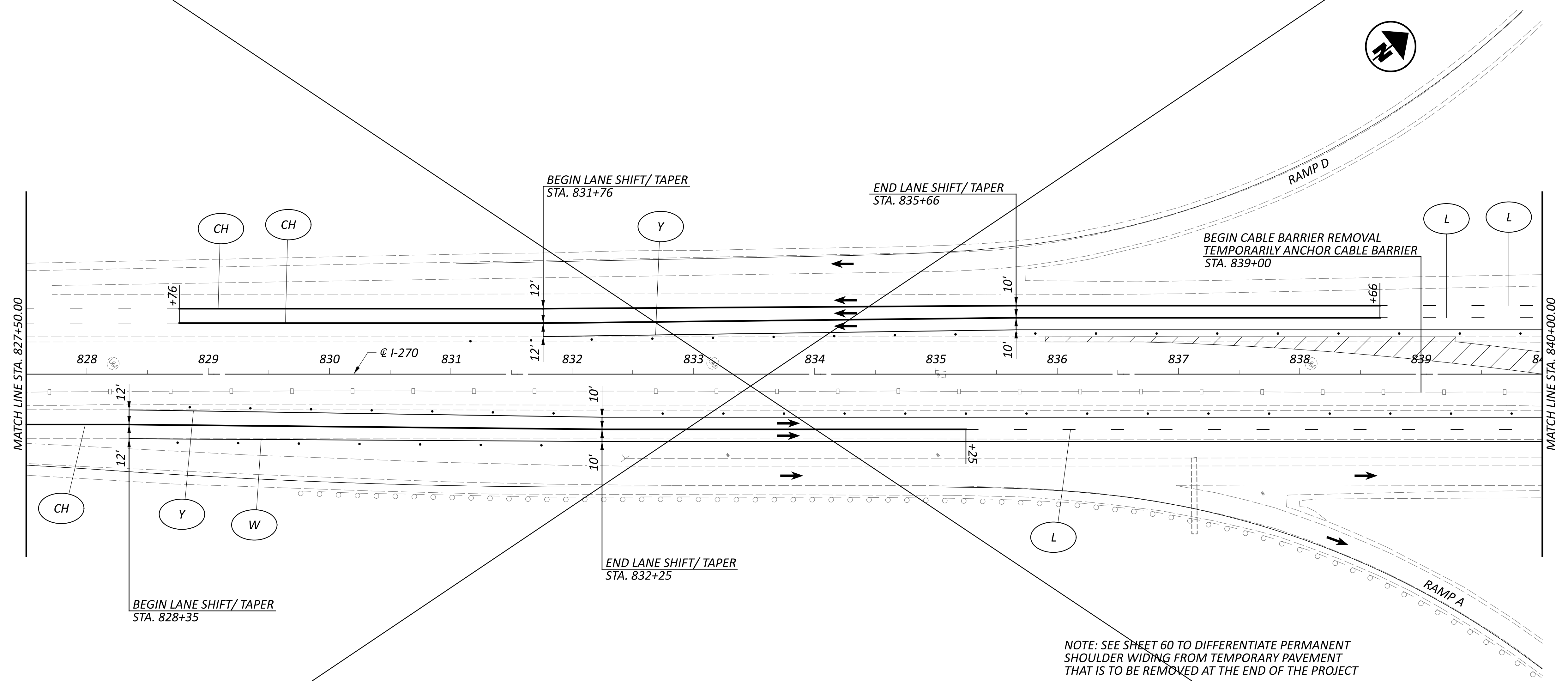
PROJECT ID

112798

SHEET TOTAL













P.44 617

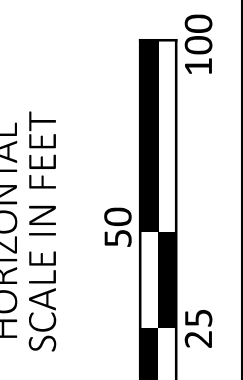
SHEET REMOVED



NOTE: SEE SHEET 60 TO DIFFERENTIATE PERMANENT SHOULDER WIDING FROM TEMPORARY PAVEMENT THAT IS TO BE REMOVED AT THE END OF THE PROJECT

LEGEND

- | | | | | | | | |
|---|--|--|--|---|-------------------------------|---|---------------------|
|  | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  | CONSTRUCTION BARREL |
|  | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT |  | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - STA. 827+50 TO STA. 840+00

DESIGN AGENCY

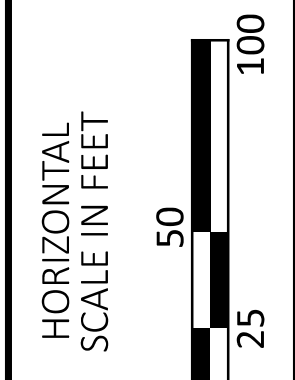
E.L. ROBINSON
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 Grandview Heights, Ohio 44131

DESIGNER
SMB

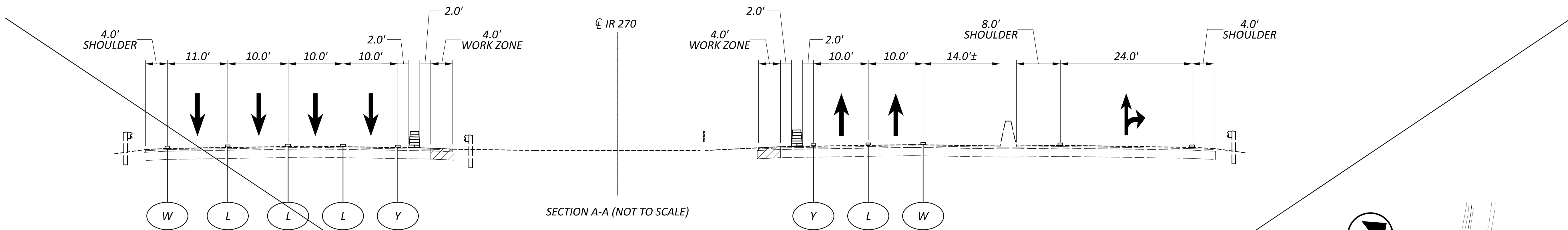
REVIEWER
MJC 01/05/24

PROJECT ID
112798

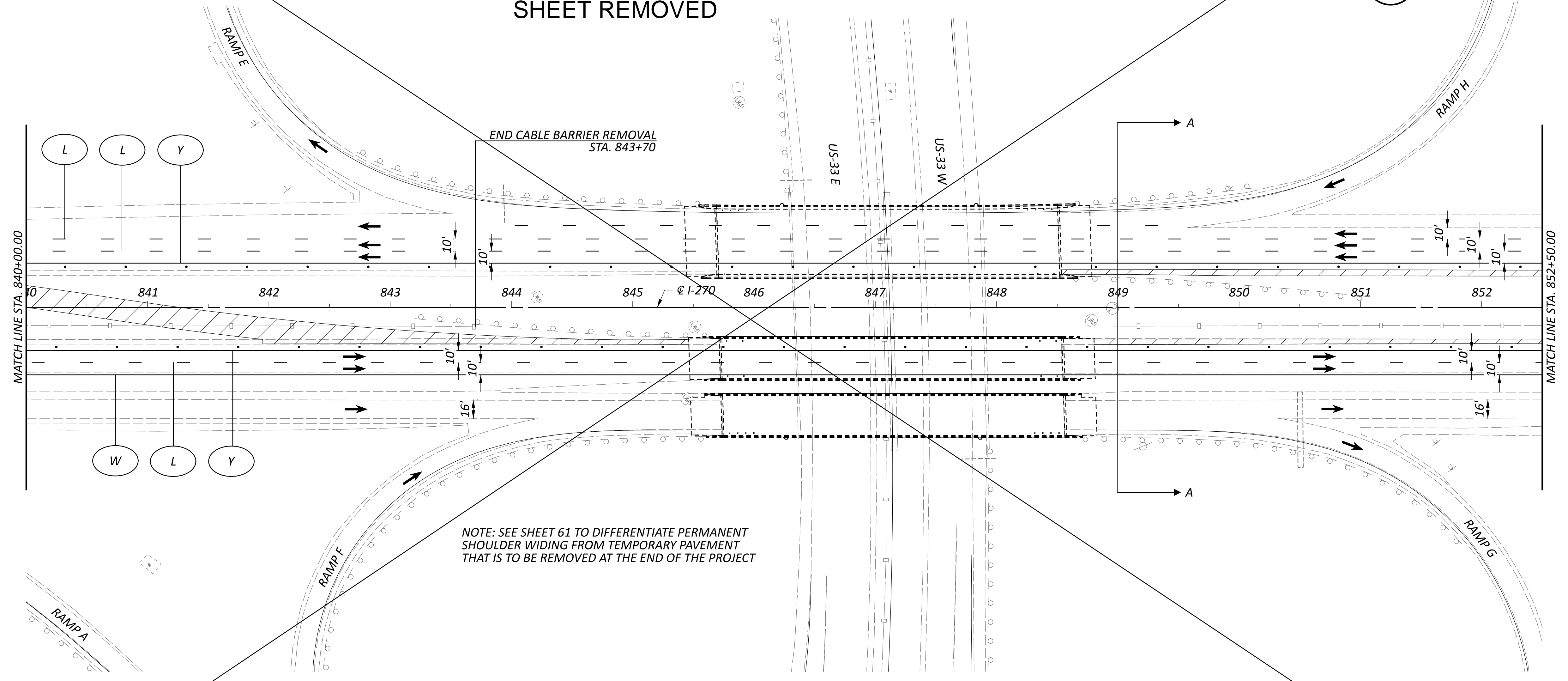
SHEET TOTAL
P.45 617



**MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - STA. 840+00 TO STA. 852+50**



SHEET REMOVED



NOTE: SEE SHEET 61 TO DIFFERENTIATE PERMANENT SHOULDER WIDING FROM TEMPORARY PAVEMENT THAT IS TO BE REMOVED AT THE END OF THE PROJECT

LEGEND

- | | | | |
|--|--|-------------------------------|---------------------|
| ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | SHOULDER REPLACEMENT/WIDENING | CONSTRUCTION BARREL |
| ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | TEMPORARY PAVEMENT | DIRECTION OF TRAVEL |
| ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | ITEM 622 - PORTABLE BARRIER | WORK ZONE | PORTABLE BARRIER |

DESIGN AGENCY

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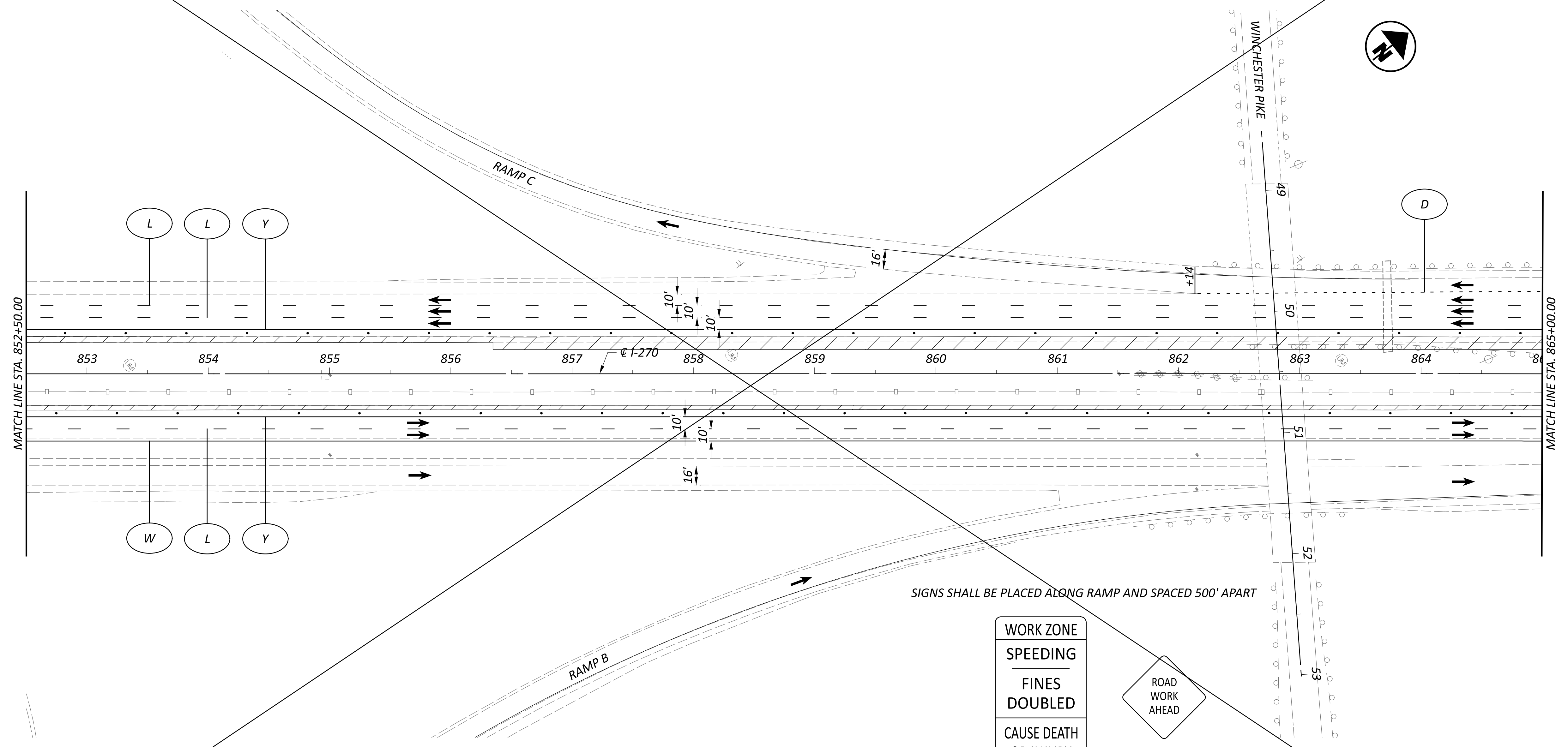
DESIGNER
SMB

REVIEWER
MJC 01/05/24

PROJECT ID
112798

SHEET TOTAL
P.46 617

SHEET REMOVED



LEGEND

- ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT
- ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT
- ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT

- ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT
- ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT
- ITEM 622 - PORTABLE BARRIER

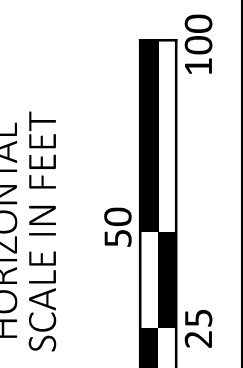
- SHOULDER REPLACEMENT/WIDENING
- TEMPORARY PAVEMENT
- WORK ZONE

- CONSTRUCTION BARREL
- DIRECTION OF TRAVEL
- PORTABLE BARRIER

WORK ZONE
 SPEEDING
 FINES
 DOUBLED
 CAUSE DEATH
 OR INJURY
 FINE/JAIL
 R11-H5a-48

ROAD
 WORK
 AHEAD
 W20-1-48

SIGNS SHALL BE PLACED ALONG RAMP AND SPACED 500' APART



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - STA. 852+50 TO STA. 865+00

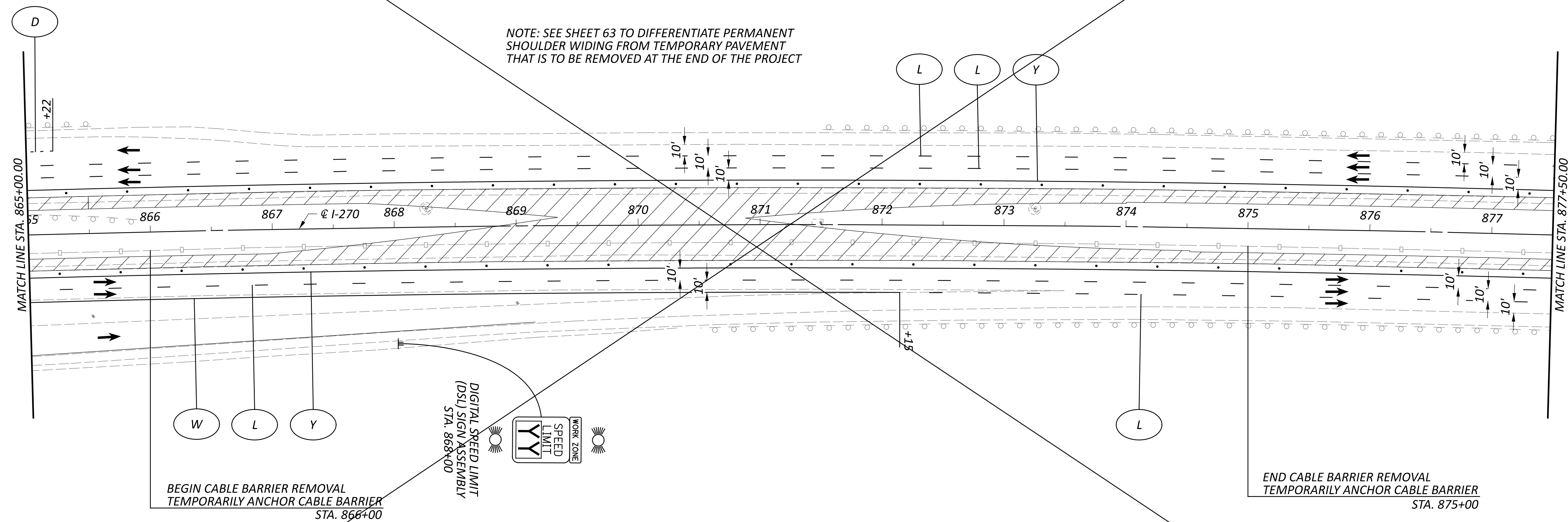
DESIGN AGENCY



DESIGNER
 SMB
 REVIEWER
 MJC 01/05/24
 PROJECT ID
 112798
 SHEET TOTAL
 P.47 617

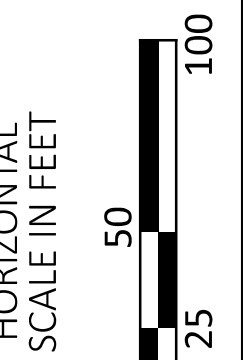
SHEET REMOVED

NOTE: SEE SHEET 63 TO DIFFERENTIATE PERMANENT SHOULDER WIDING FROM TEMPORARY PAVEMENT THAT IS TO BE REMOVED AT THE END OF THE PROJECT



LEGEND

- | | | | |
|--|--|-------------------------------|---------------------|
| ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | SHOULDER REPLACEMENT/WIDENING | CONSTRUCTION BARREL |
| ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | TEMPORARY PAVEMENT | DIRECTION OF TRAVEL |
| ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | ITEM 622 - PORTABLE BARRIER | WORK ZONE | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - STA. 865+00 TO STA. 877+50

DESIGN AGENCY



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 Grandview Heights, Ohio

DESIGNER

SMB

REVIEWER

MJC 01/05/24

PROJECT ID

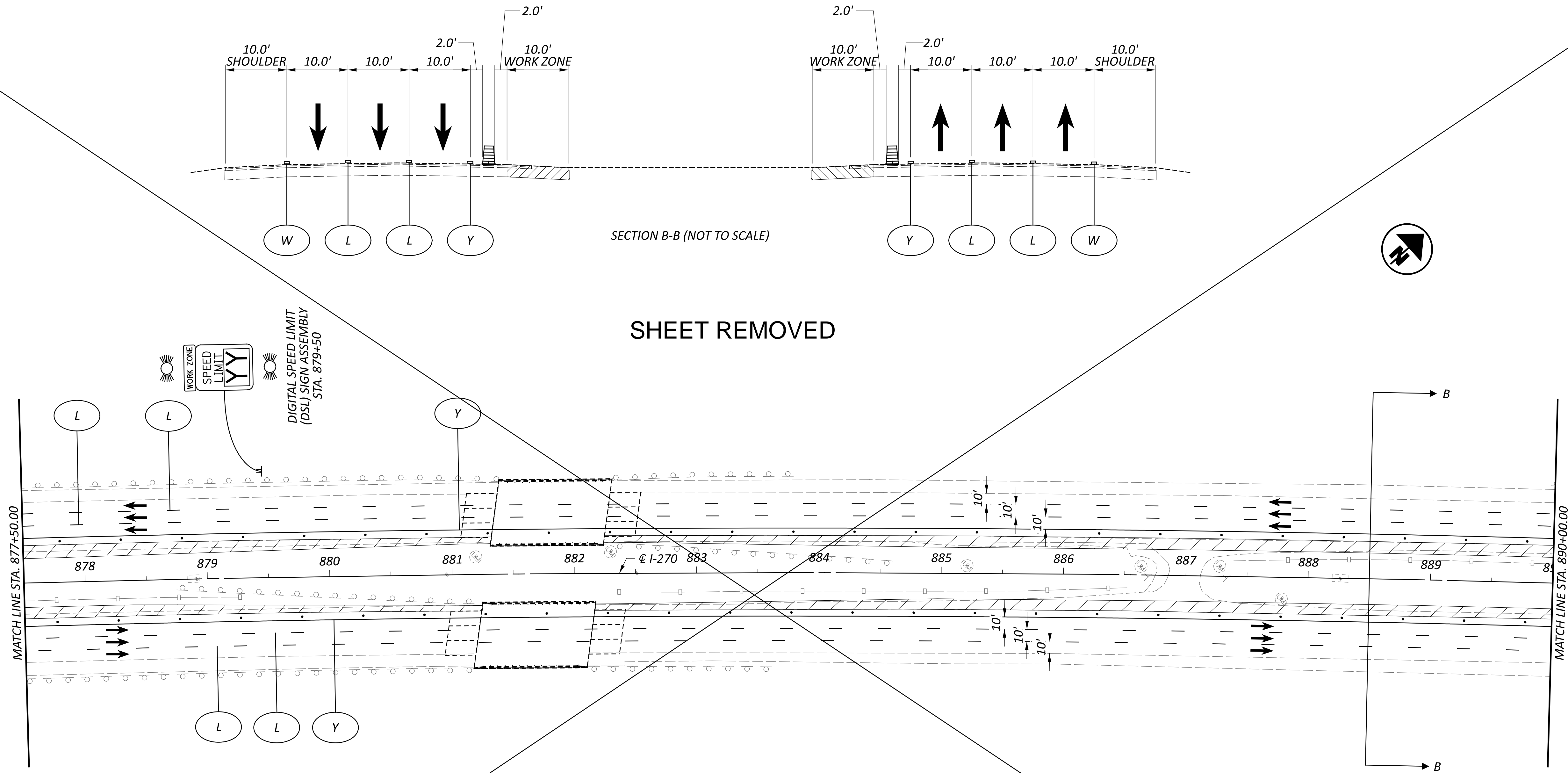
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SHEET TOTAL

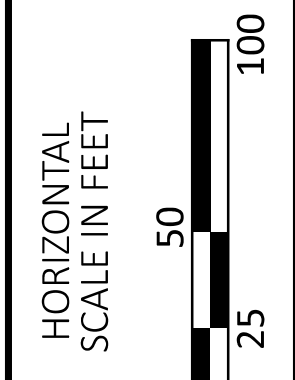
P.48 617

LEGEND

- | | | | | | | | |
|---|--|----|--|--|-------------------------------|--|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



SHEET REMOVED



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - STA. 877+50 TO STA. 890+00

DESIGN AGENCY

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 Grandview Heights, Ohio

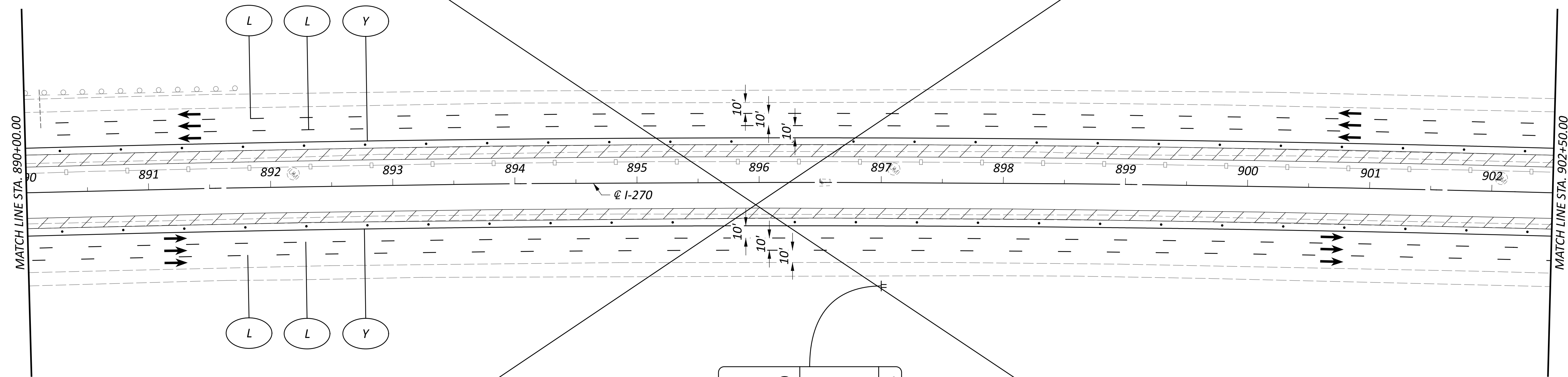
DESIGNER
SMB

REVIEWER
MJC 01/05/24

PROJECT ID
112798













SHEET TOTAL
P.49 617

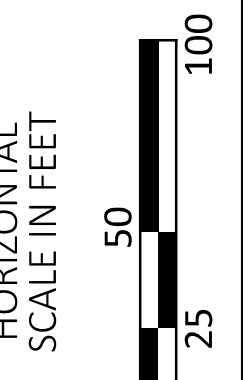
SHEET REMOVED



R11-H5d-48
 STA. 897+00
 CAUSE DEATH
 OR INJURY
 FINE/JAIL
 WORK ZONE
 SPEEDING
 FINES
 DOUBLED

LEGEND

- | | | | | | | | |
|---|--|--|--|---|-------------------------------|---|---------------------|
|  | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  | CONSTRUCTION BARREL |
|  | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT |  | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - STA. 890+00 TO STA. 902+50

DESIGN AGENCY



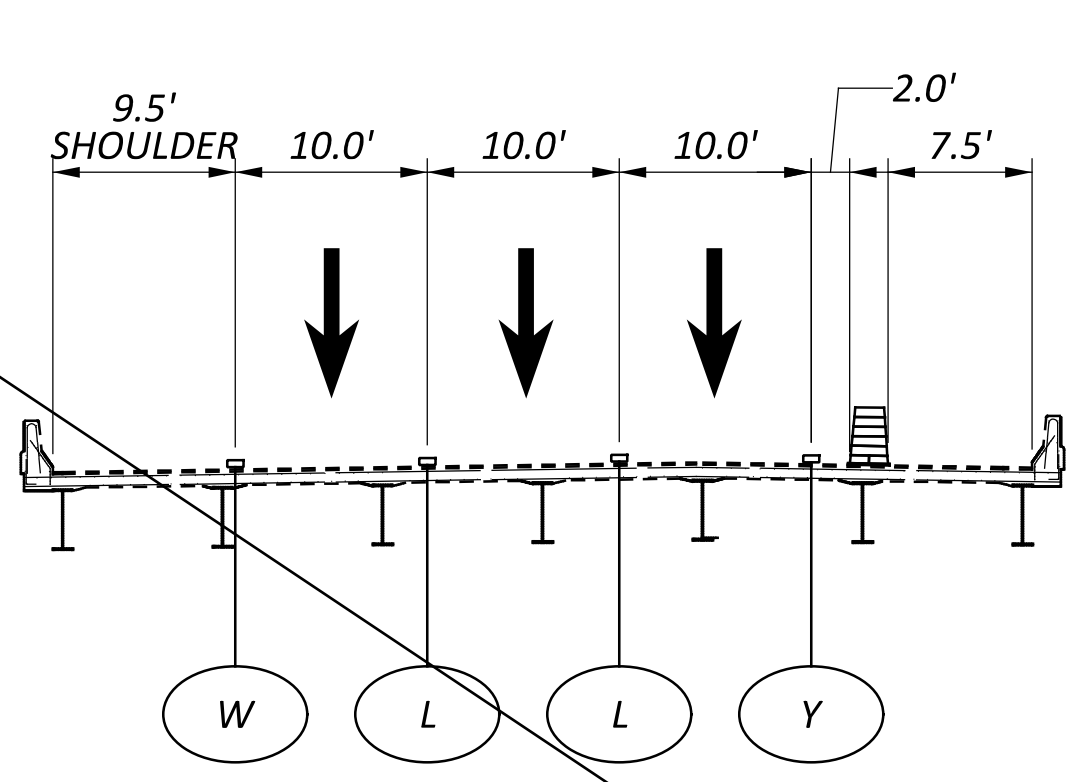
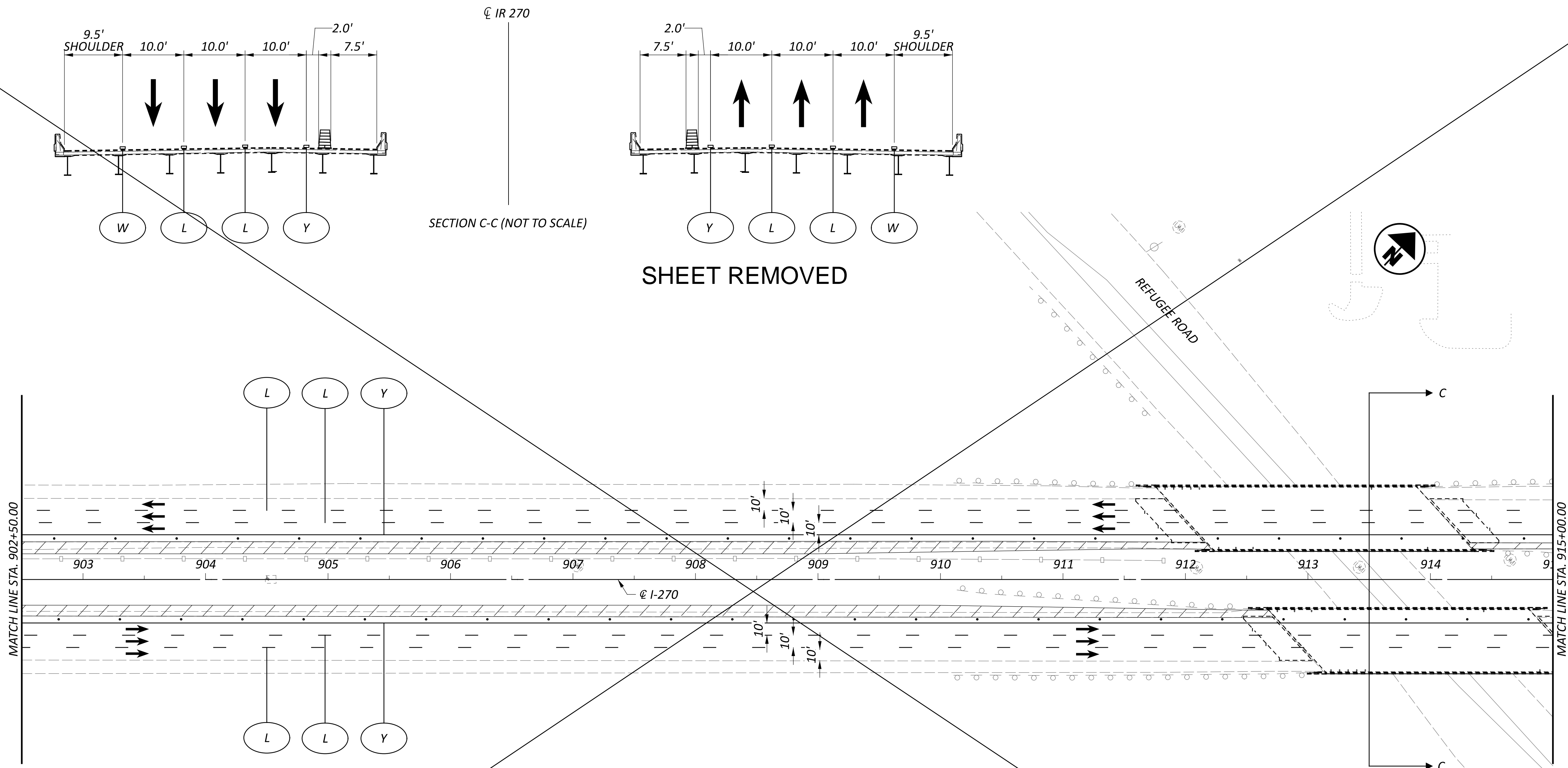
E.L. ROBINSON
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 1468 West 9th St, Suite 800
 Cleveland, Ohio
 950 Goodale Blvd, Suite 180
 Grandview Heights, Ohio

DESIGNER
 SMB

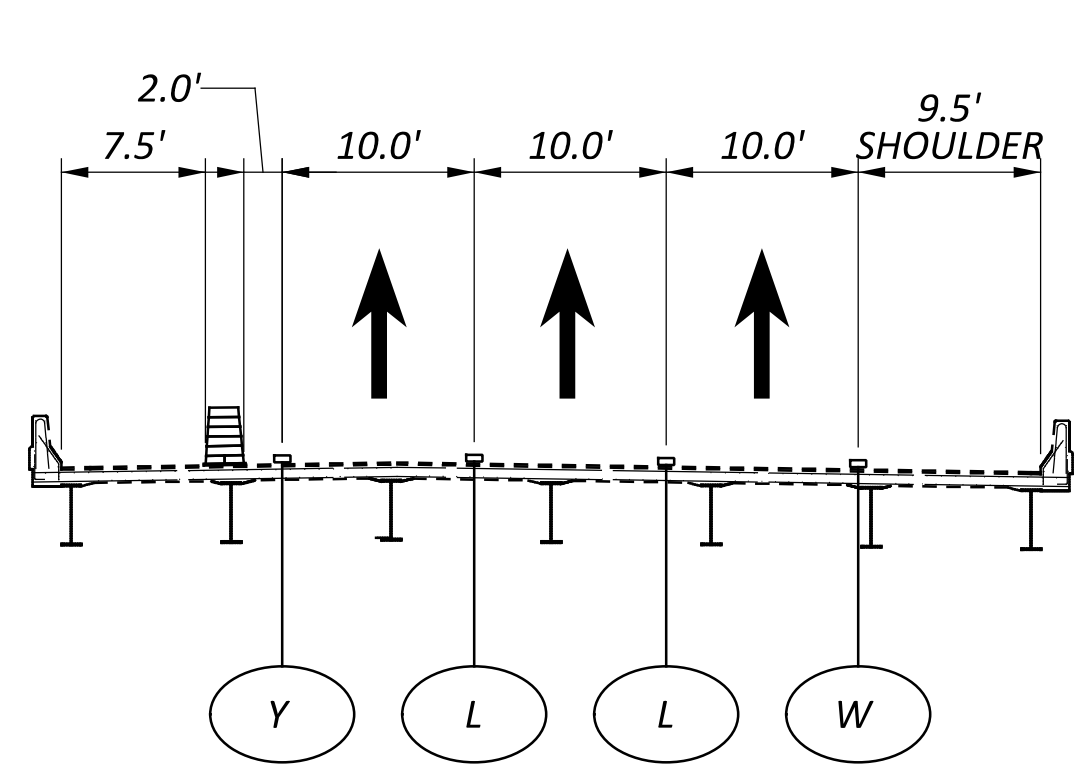
REVIEWER
 MJC 01/05/24

PROJECT ID
 112798

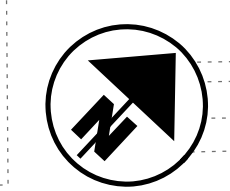
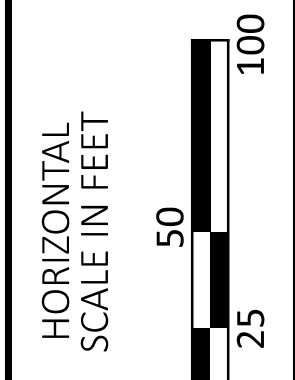
SHEET	TOTAL
P.50	617



SECTION C-C (NOT TO SCALE)
 CL IR 270



SHEET REMOVED



LEGEND

- | | | | | | | | |
|---|--|----|--|--|-------------------------------|--|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |

MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - STA. 902+50 TO STA. 915+00

DESIGN AGENCY

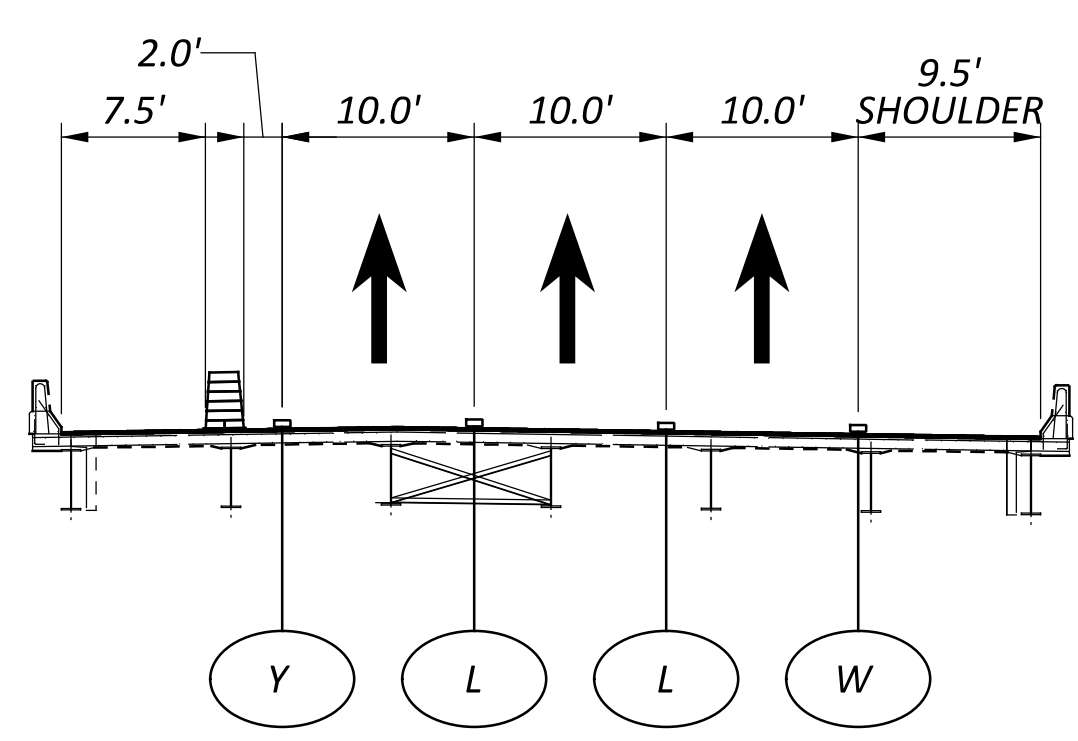
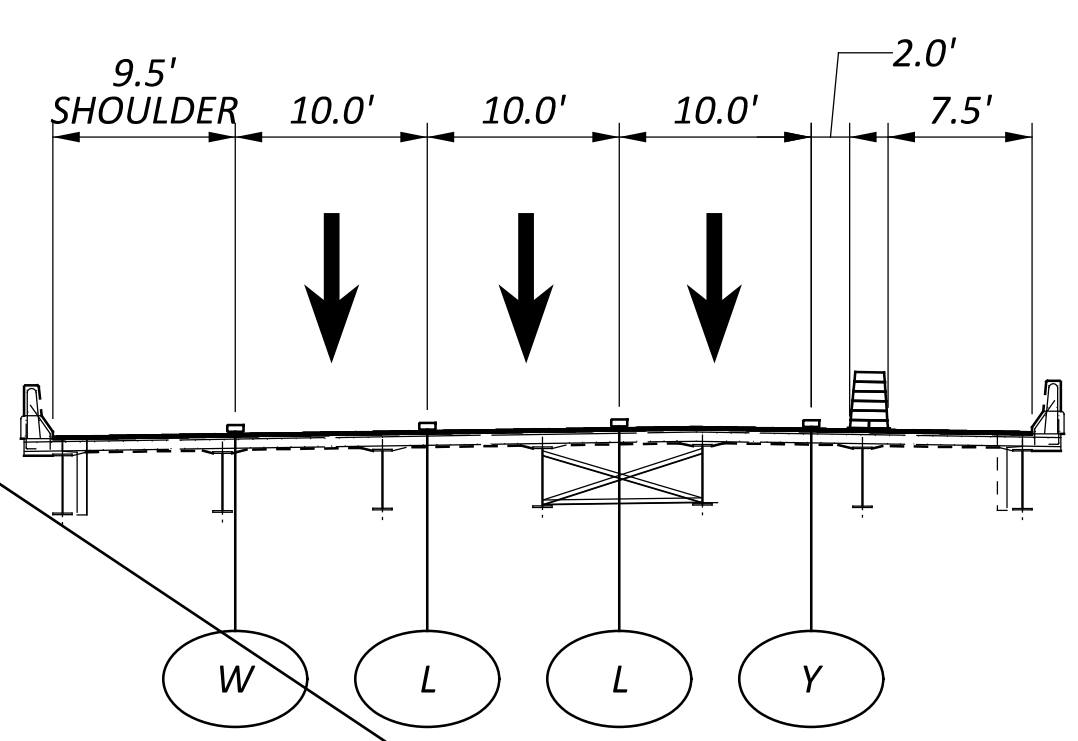
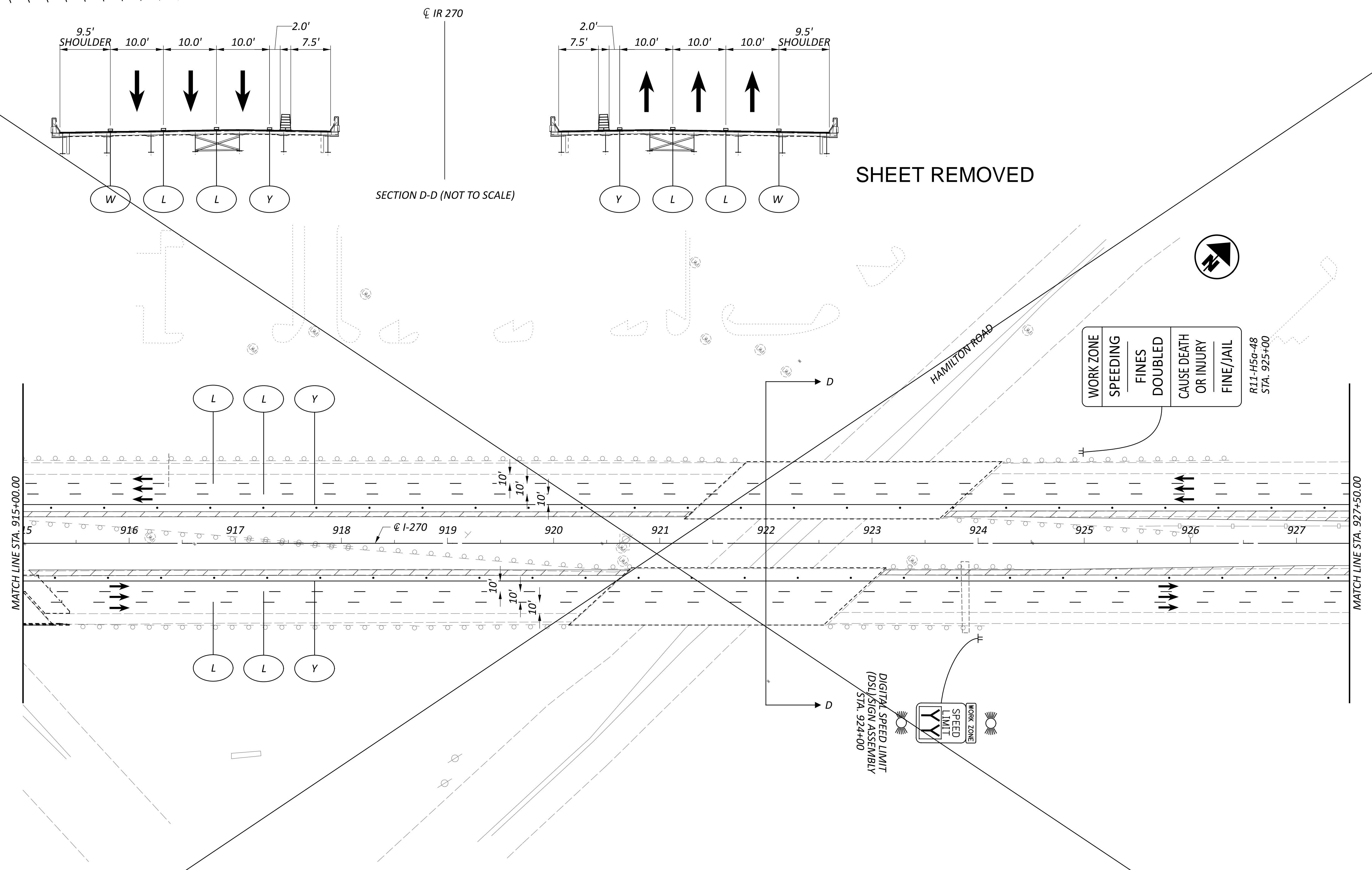
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DESIGNER
SMB

REVIEWER
MJC 01/05/24

PROJECT ID
112798

SHEET TOTAL
P.51 617



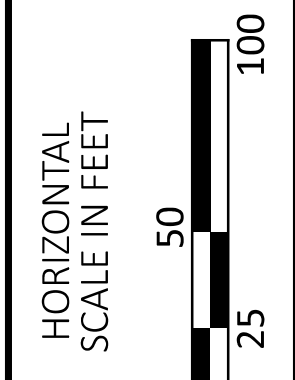
SHEET REMOVED

WORK ZONE
 SPEEDING
 FINES
 DOUBLED
 CAUSE DEATH
 OR INJURY
 FINE/JAIL
 R11-H5a-48
 STA. 925+00

WORK ZONE
 SPEED
 LIMIT
 YYY
 DIGITAL SPEED LIMIT
 (DSL) SIGN ASSEMBLY
 STA. 924+00

LEGEND

- | | | | | | |
|---|--|----|--|-------------------------------|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | SHOULDER REPLACEMENT/WIDENING | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | TEMPORARY PAVEMENT | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | WORK ZONE | PORTABLE BARRIER |



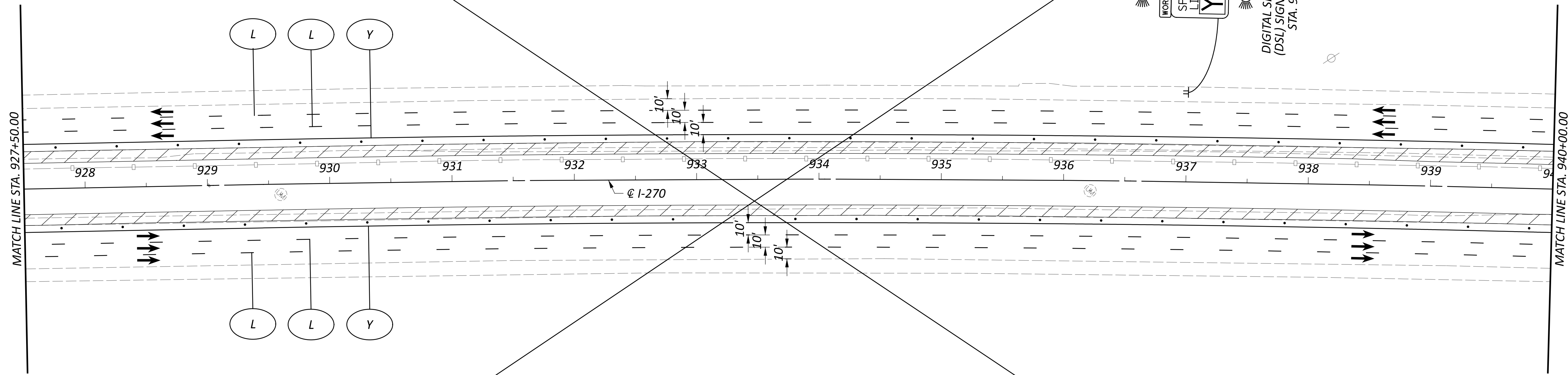
MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - STA. 915+00 TO STA. 927+50

DESIGN AGENCY

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 950 Goodale Blvd, Suite 180
 Grandview Heights, Ohio

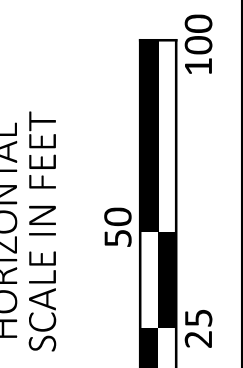
DESIGNER	SMB
REVIEWER	MJC 01/05/24
PROJECT ID	112798
SHEET	TOTAL
P.52	617

SHEET REMOVED



LEGEND

- | | | | | | | | |
|---|--|----|--|--|-------------------------------|---|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | O | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - STA. 927+50 TO STA. 940+00

DESIGN AGENCY



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DESIGNER

SMB

REVIEWER

MJC 01/05/24

PROJECT ID

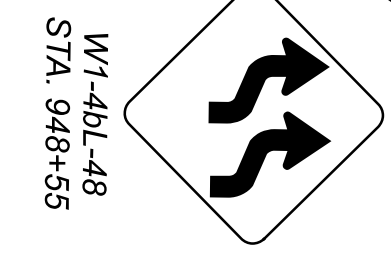
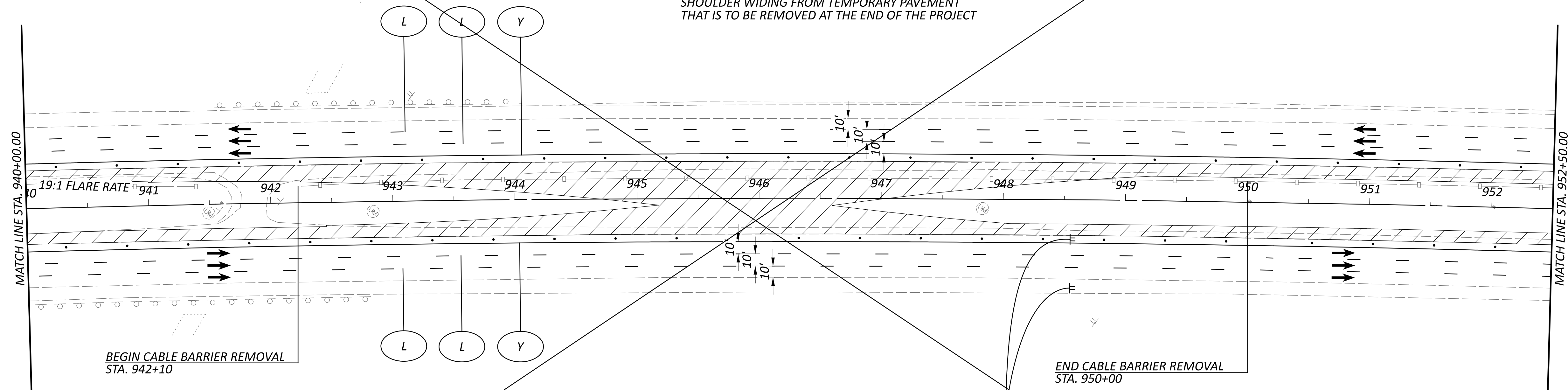
112798

SHEET TOTAL













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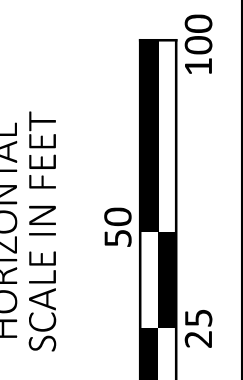
SHEET REMOVED

NOTE: SEE SHEET 69 TO DIFFERENTIATE PERMANENT SHOULDER WIDING FROM TEMPORARY PAVEMENT THAT IS TO BE REMOVED AT THE END OF THE PROJECT



LEGEND

- | | | | | | | | |
|---|--|--|--|---|-------------------------------|---|---------------------|
|  | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  | CONSTRUCTION BARREL |
|  | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT |  | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - STA. 940+00 TO STA. 952+50

DESIGN AGENCY



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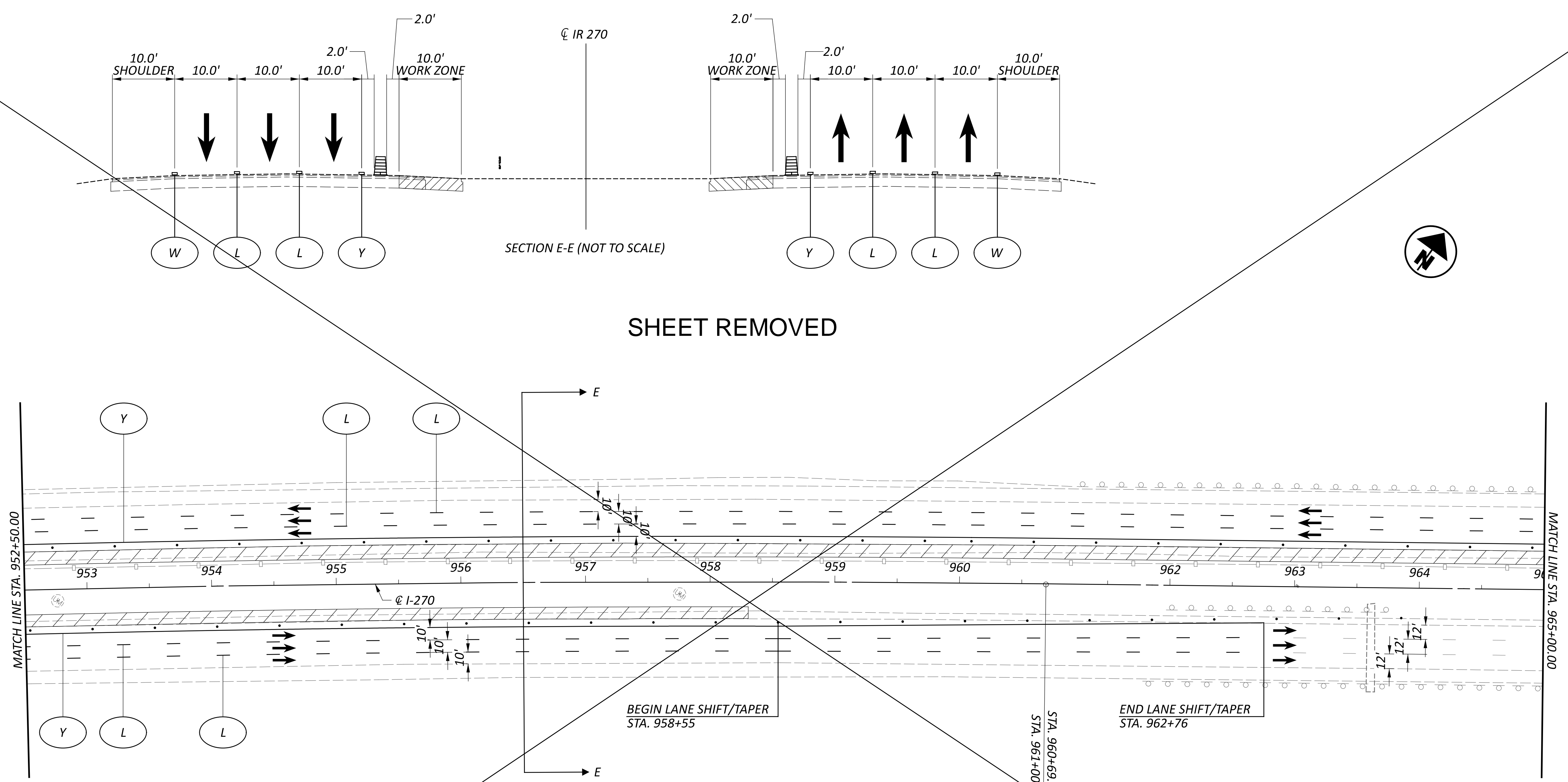
MJC 01/05/24

PROJECT ID

112798

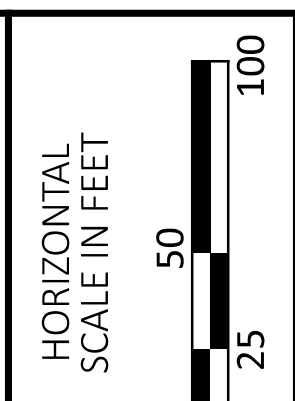
SHEET TOTAL

P.54 617



LEGEND

- | | | | |
|--|--|-------------------------------|---------------------|
| ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | SHOULDER REPLACEMENT/WIDENING | CONSTRUCTION BARREL |
| ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | TEMPORARY PAVEMENT | DIRECTION OF TRAVEL |
| ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | ITEM 622 - PORTABLE BARRIER | WORK ZONE | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
STEP 1 - STA. 952+50 TO STA. 965+00

DESIGN AGENCY

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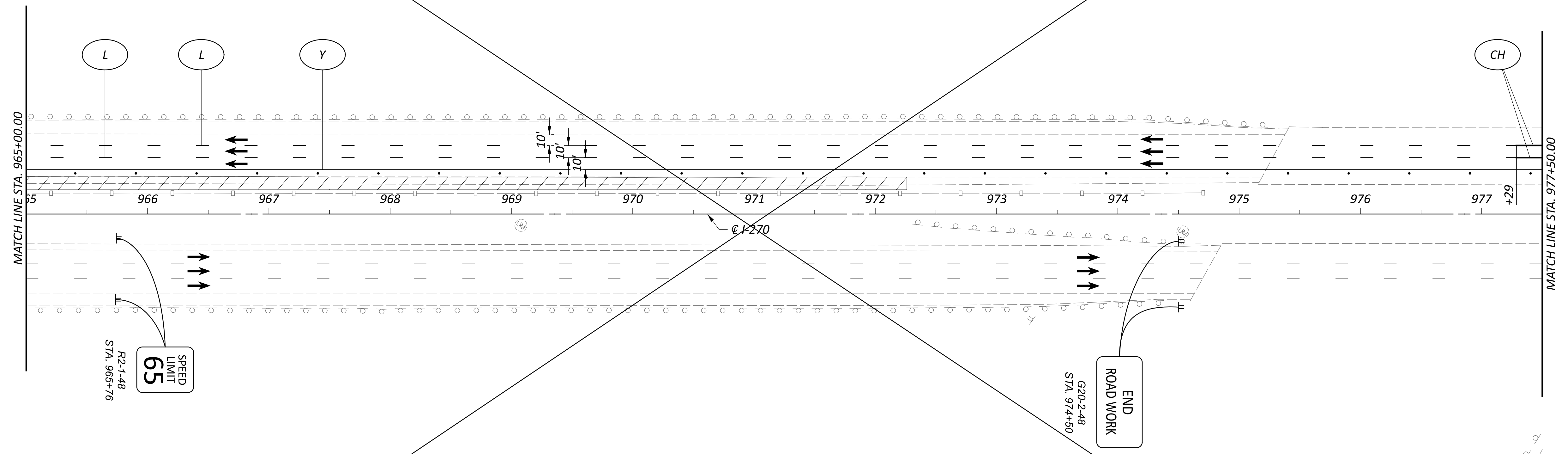
DESIGNER
SMB

REVIEWER
MJC 01/05/24

PROJECT ID
112798

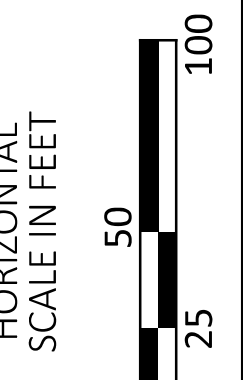
SHEET TOTAL
 P.55 | 617

SHEET REMOVED



LEGEND

- | | | | | | | | |
|---|--|----|--|--|-------------------------------|--|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - STA. 965+00 TO STA. 977+50

DESIGN AGENCY



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DESIGNER

SMB

REVIEWER

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PROJECT ID

112798

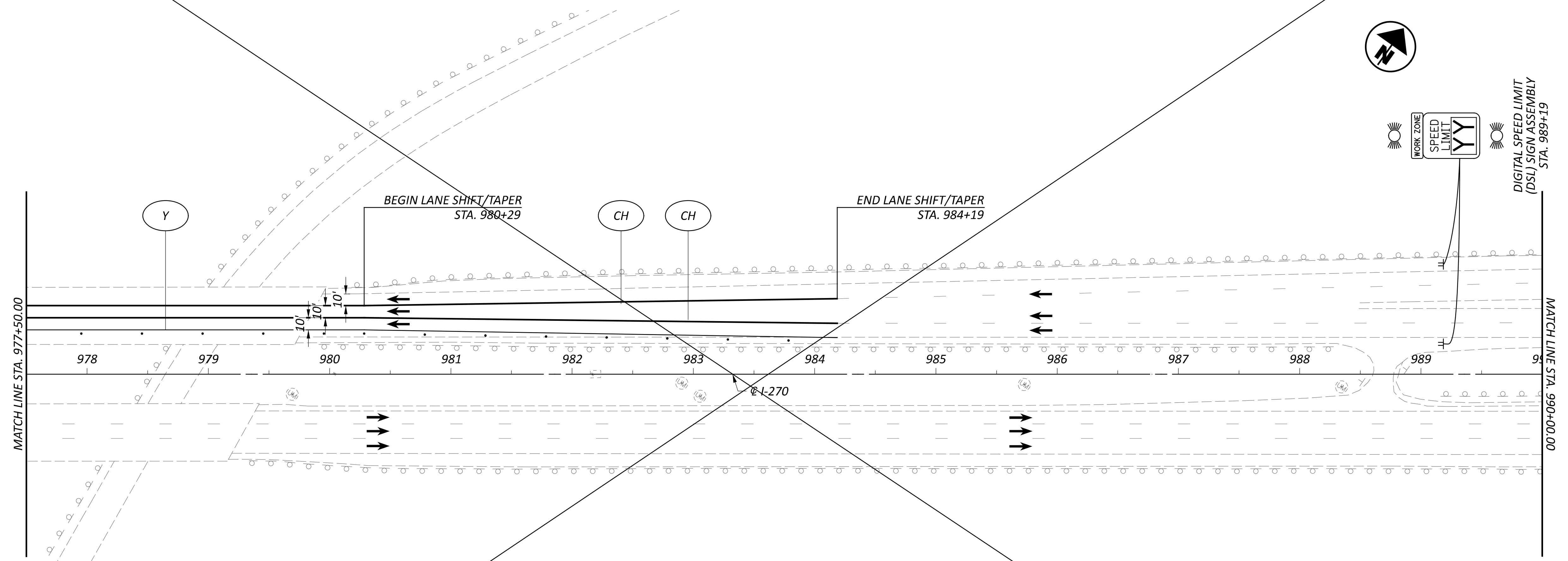
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P.56

TOTAL

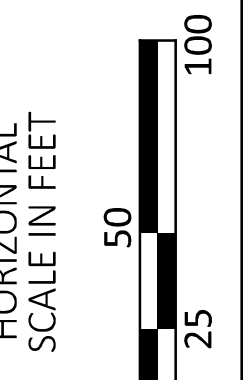
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SHEET REMOVED



LEGEND

- | | | | | | | | |
|---|--|----|--|--|-------------------------------|--|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - STA. 977+50 TO STA. 990+00

DESIGN AGENCY



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DESIGNER

SMB

REVIEWER

MJC 01/05/24

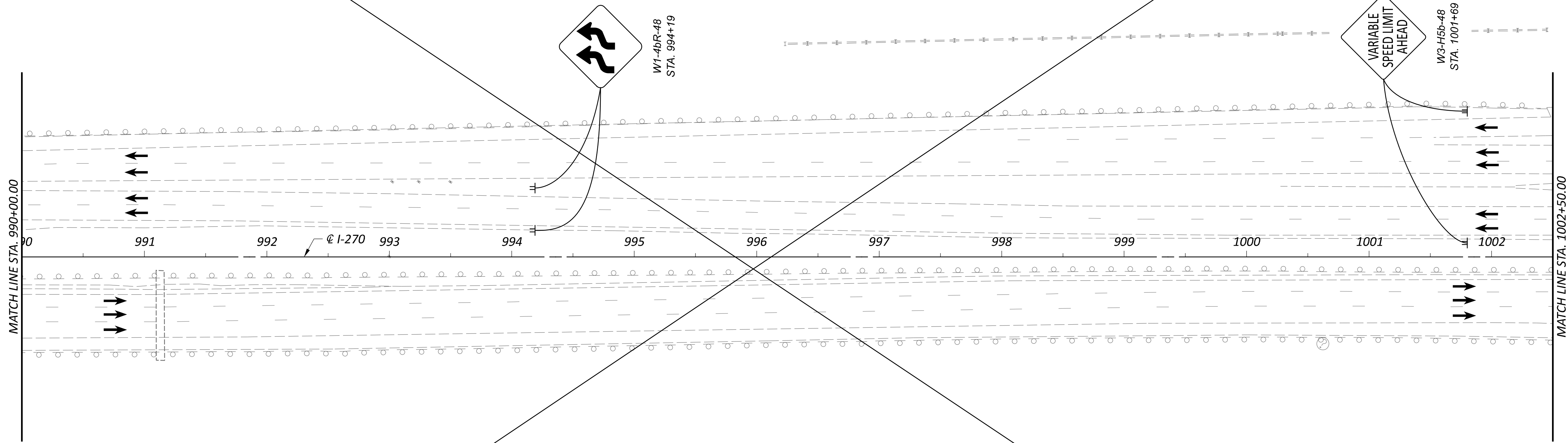
PROJECT ID

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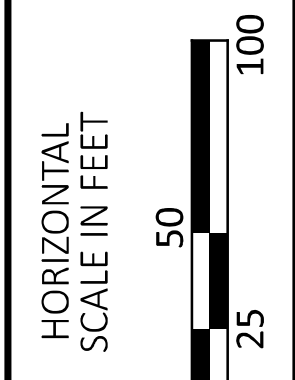
P.57 617

SHEET REMOVED



LEGEND

- | | | | |
|--|--|-------------------------------|---------------------|
| ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 642 PAINT | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT | SHOULDER REPLACEMENT/WIDENING | CONSTRUCTION BARREL |
| ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 642 PAINT | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 642 PAINT | TEMPORARY PAVEMENT | DIRECTION OF TRAVEL |
| ITEM 614 - WORK LANE LINE, CLASS I, 642 PAINT | ITEM 622 - PORTABLE BARRIER | WORK ZONE | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - STA. 990+00 TO STA. 1002+50

DESIGN AGENCY



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DESIGNER

SMB

REVIEWER

MJC 01/05/24

PROJECT ID

112798

SHEET TOTAL

P.58 617

SIGNS SHALL BE PLACED ALONG RAMP AND SPACED 500' APART

WORK ZONE
 SPEEDING
 FINES DOUBLED
 CAUSE DEATH OR INJURY
 FINE/JAIL

R11-H5a-48

TYPE A
 WARNING LIGHT



W20-1-48

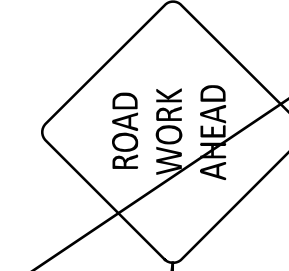
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STAY IN LANE

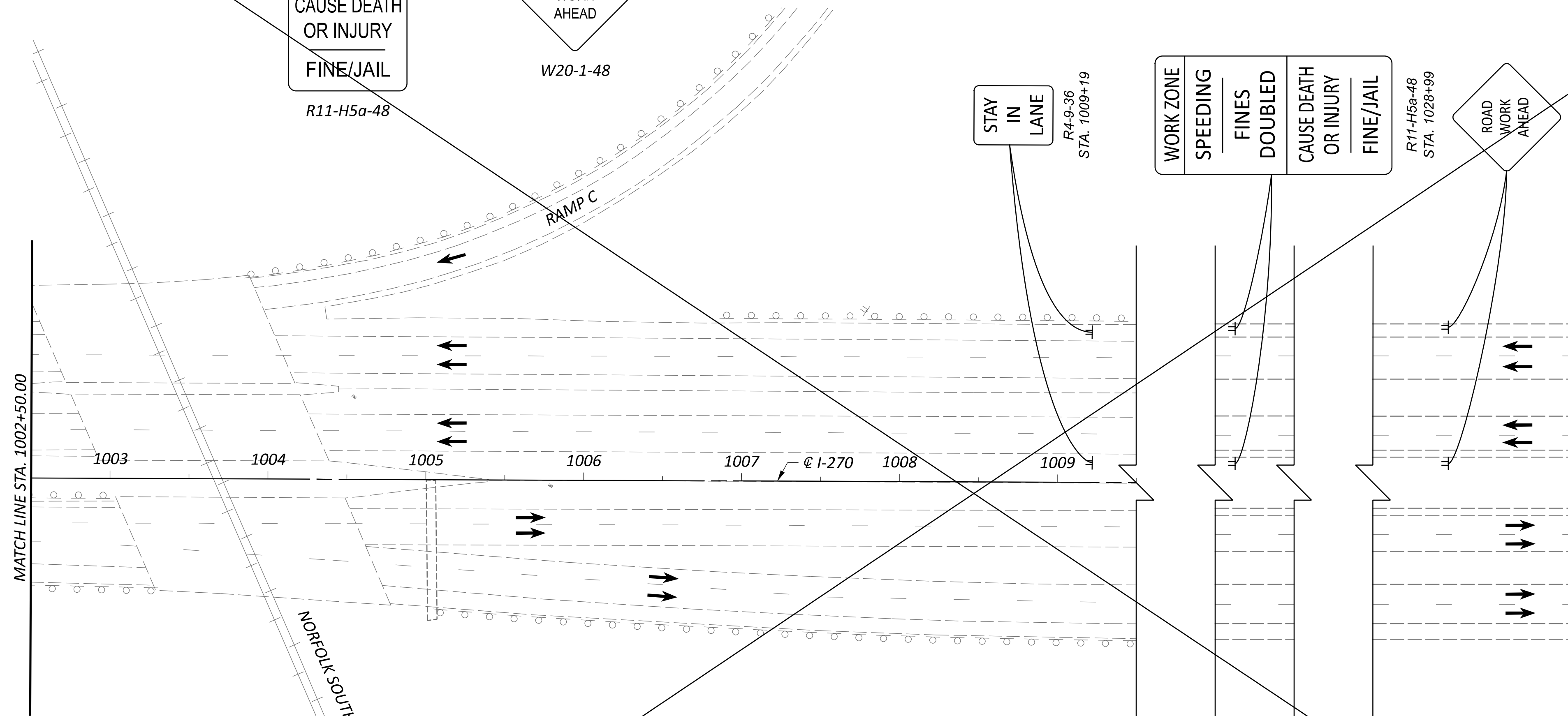
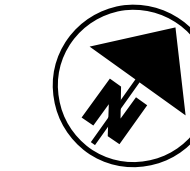
R4-9-36
 STA. 1009+19

WORK ZONE
 SPEEDING
 FINES DOUBLED
 CAUSE DEATH OR INJURY
 FINE/JAIL

R11-H5a-48
 STA. 1028+99



W20-1-48
 STA. 1035+58



LEGEND

- W ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 642 PAINT
- Y ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 642 PAINT
- L ITEM 614 - WORK LANE LINE, CLASS I, 642 PAINT

- CH ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT
- D ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 642 PAINT
- PB ITEM 622 - PORTABLE BARRIER

- SHOULDER REPLACEMENT/WIDENING
- TEMPORARY PAVEMENT
- WORK ZONE

- CONSTRUCTION BARREL
- DIRECTION OF TRAVEL
- PORTABLE BARRIER



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 1 - STA. 1002+50 TO END WORK

DESIGN AGENCY



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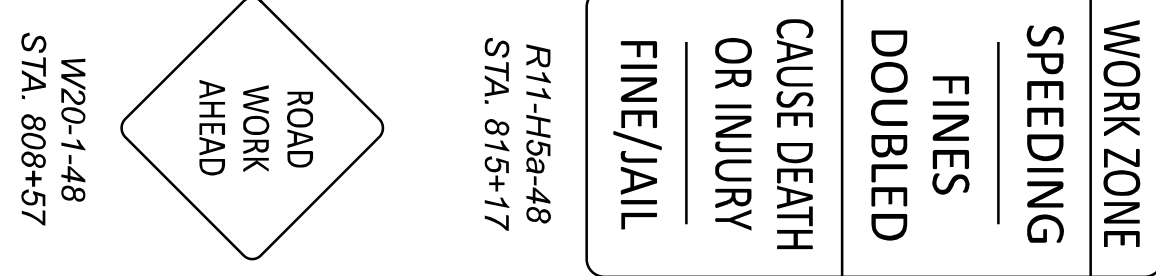
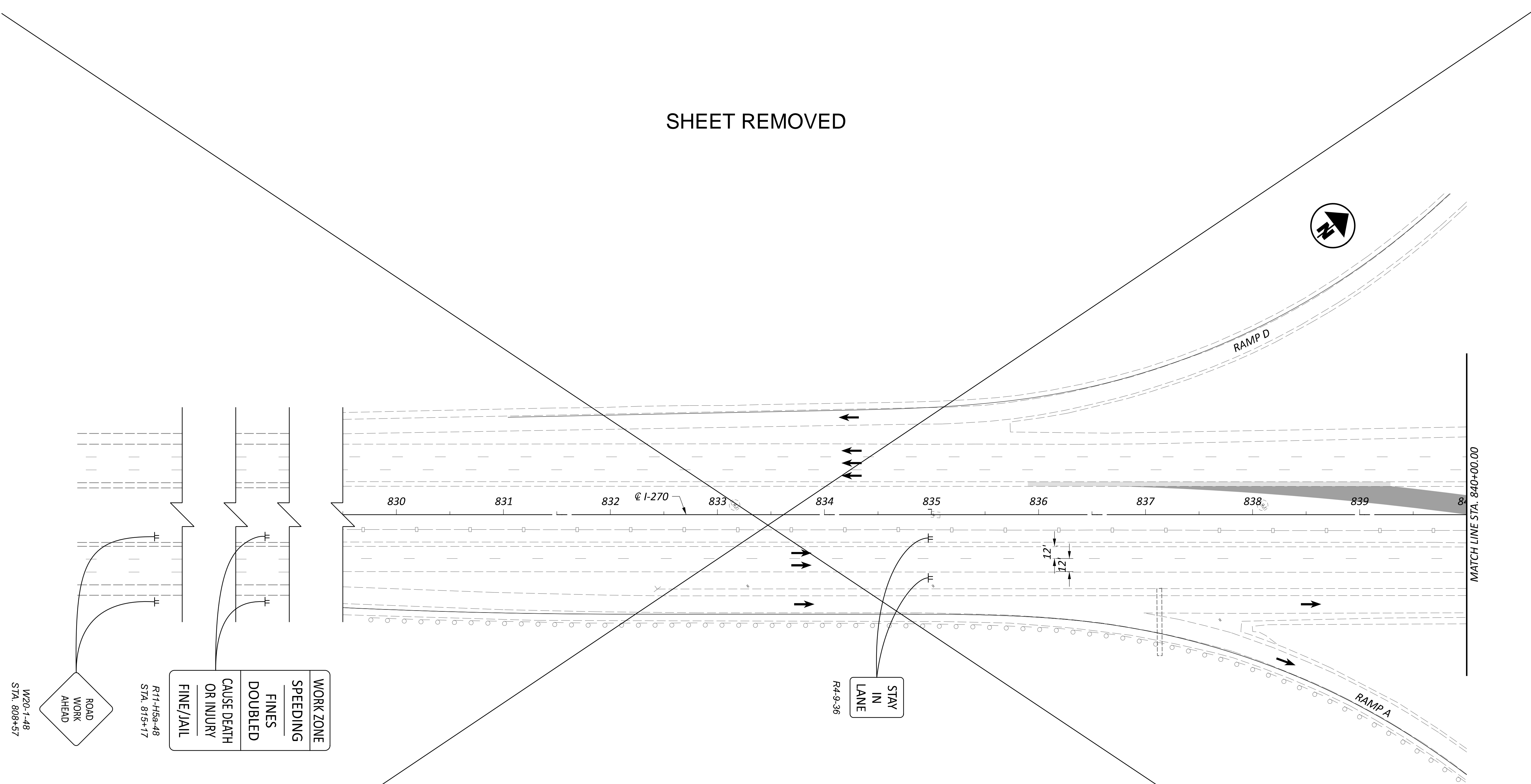
DESIGNER
 SMB

REVIEWER
 MJC 01/05/24

PROJECT ID
 112798

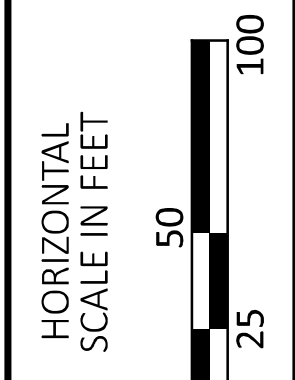
SHEET TOTAL
 P.59 617

SHEET REMOVED



LEGEND

- | | | | |
|--|--|-------------------------------|---------------------|
| ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | SHOULDER REPLACEMENT/WIDENING | CONSTRUCTION BARREL |
| ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | TEMPORARY PAVEMENT | DIRECTION OF TRAVEL |
| ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | ITEM 622 - PORTABLE BARRIER | WORK ZONE | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - BEGIN WORK TO STA. 840+00

DESIGN AGENCY



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DESIGNER

SMB

REVIEWER

MJC 01/05/24

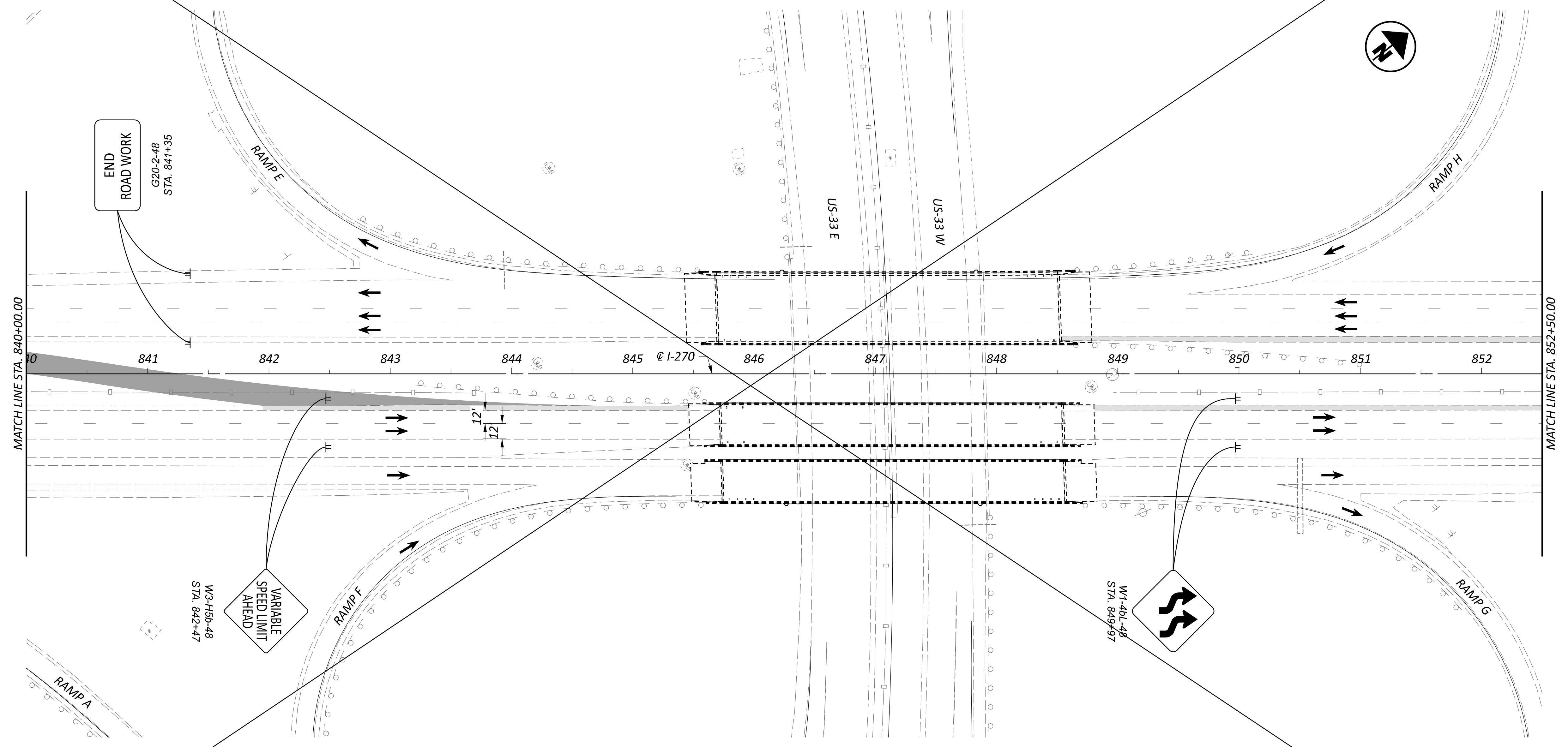
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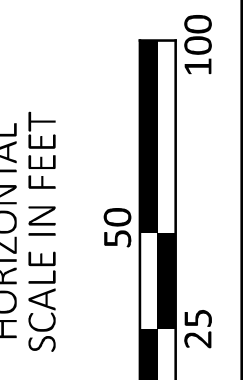
P.60 617

SHEET REMOVED



LEGEND

- | | | | | | | | |
|---|--|----|--|--|-------------------------------|--|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 840+00 TO STA. 852+50

DESIGN AGENCY



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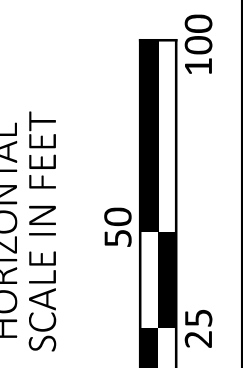
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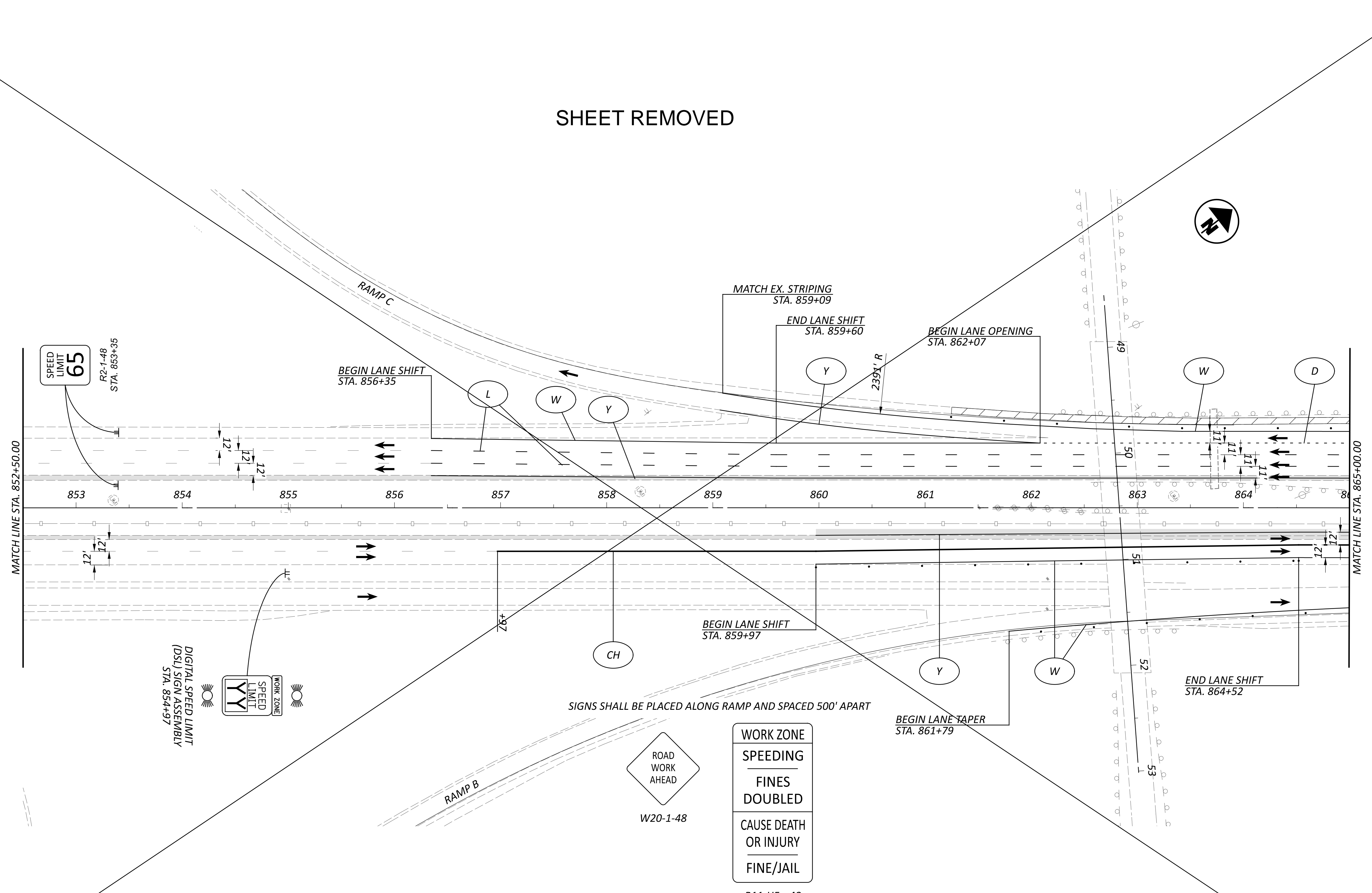
SHEET TOTAL

P.61 617

SHEET REMOVED



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 852+50 TO STA. 865+00



SIGNS SHALL BE PLACED ALONG RAMP AND SPACED 500' APART

LEGEND

- | | | | |
|--|--|-------------------------------|---------------------|
| ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | SHOULDER REPLACEMENT/WIDENING | CONSTRUCTION BARREL |
| ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | TEMPORARY PAVEMENT | DIRECTION OF TRAVEL |
| ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | ITEM 622 - PORTABLE BARRIER | WORK ZONE | PORTABLE BARRIER |

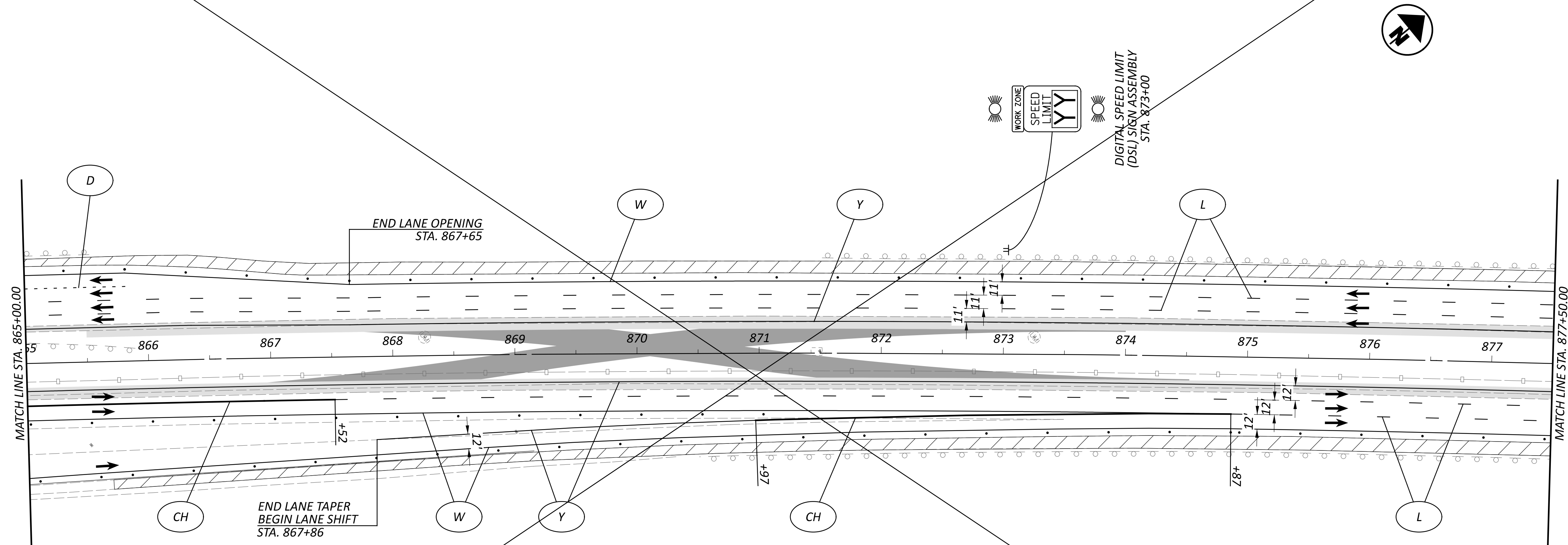
WORK ZONE
 SPEEDING
 FINES DOUBLED
 CAUSE DEATH OR INJURY
 FINE/JAIL
 R11-H5a-48

ROAD WORK AHEAD
 W20-1-48











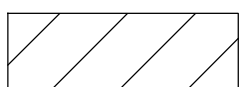

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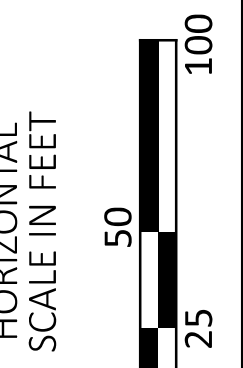
 E.L. ROBINSON ENGINEERING
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 950 Goodale Blvd, Suite 180
 Grandview Heights, Ohio 44131
 DESIGNER
 SMB
 REVIEWER
 MJC 01/05/24
 PROJECT ID
 112798
 SHEET TOTAL
 P.62 617

SHEET REMOVED



LEGEND

- | | | | | | | | |
|---|--|--|--|---|-------------------------------|---|---------------------|
|  | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  | CONSTRUCTION BARREL |
|  | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT |  | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 865+00 TO STA. 877+50

DESIGN AGENCY



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SMB

REVIEWER

MJC 01/05/24

PROJECT ID

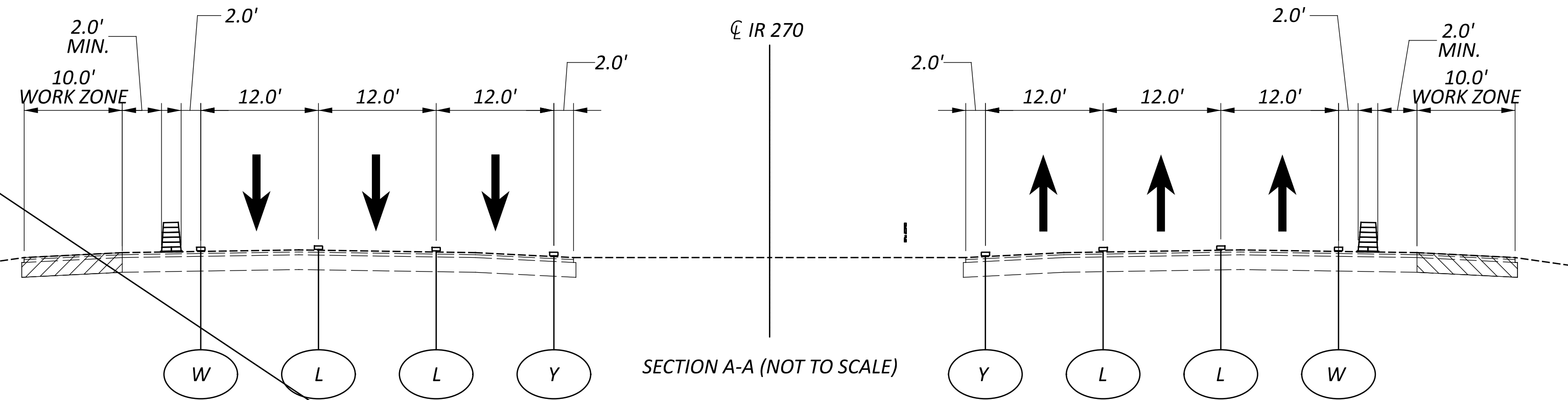
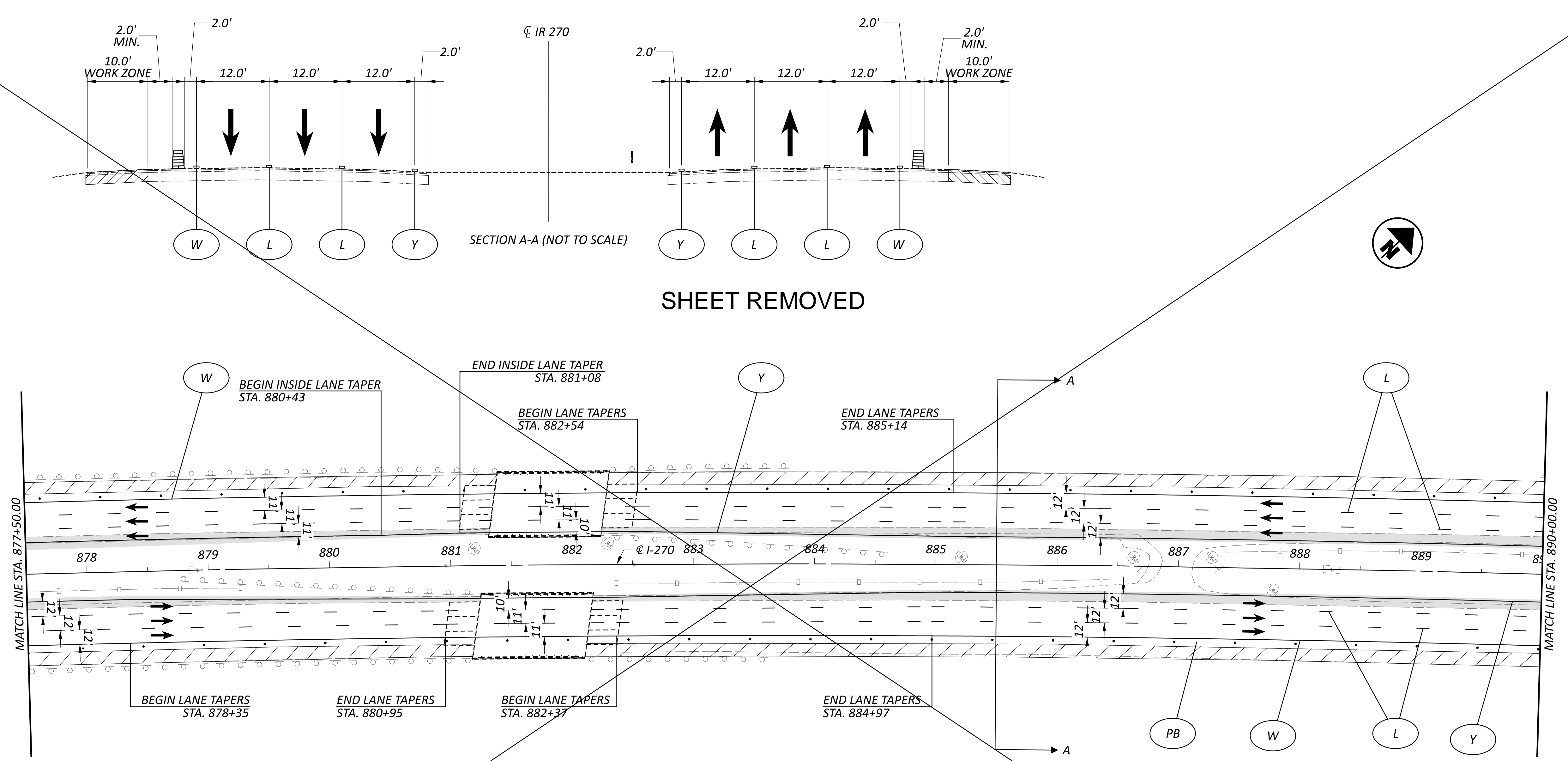
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P.63

TOTAL

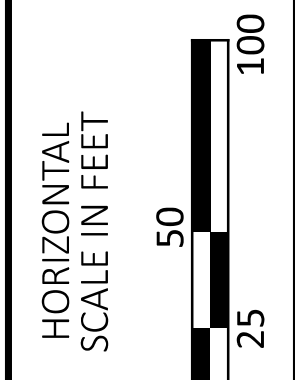
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SHEET REMOVED

LEGEND

- | | | | |
|--|--|-------------------------------|---------------------|
| ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | SHOULDER REPLACEMENT/WIDENING | CONSTRUCTION BARREL |
| ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | TEMPORARY PAVEMENT | DIRECTION OF TRAVEL |
| ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | ITEM 622 - PORTABLE BARRIER | WORK ZONE | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 877+50 TO STA. 890+00

DESIGN AGENCY



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DESIGNER

SMB

REVIEWER

MJC 01/05/24

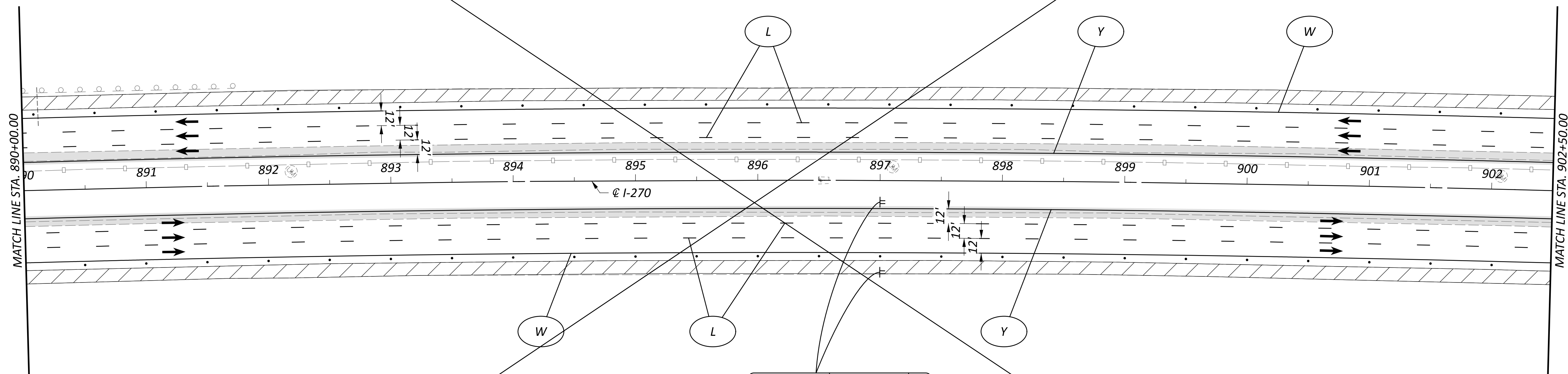
PROJECT ID

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SHEET TOTAL

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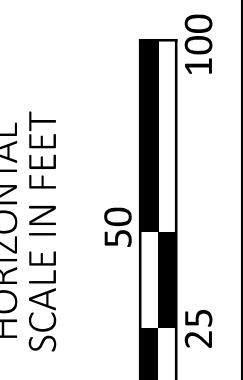
SHEET REMOVED



R11-H50-48
 897+00
 CAUSE DEATH
 OR INJURY
 FINE/JAIL
 WORK ZONE
 SPEEDING
 FINES
 DOUBLED

LEGEND

- | | | | |
|--|--|-------------------------------|---------------------|
| ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | SHOULDER REPLACEMENT/WIDENING | CONSTRUCTION BARREL |
| ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | TEMPORARY PAVEMENT | DIRECTION OF TRAVEL |
| ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | ITEM 622 - PORTABLE BARRIER | WORK ZONE | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 890+00 TO STA. 902+50

DESIGN AGENCY



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DESIGNER

SMB

REVIEWER

MJC 01/05/24

PROJECT ID

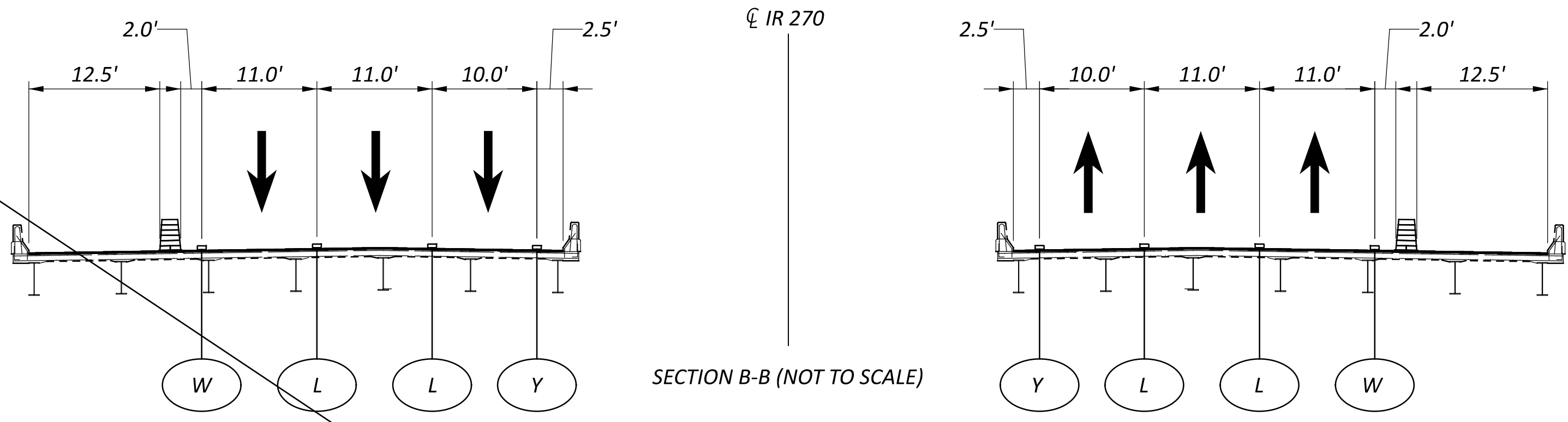
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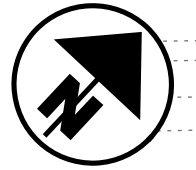
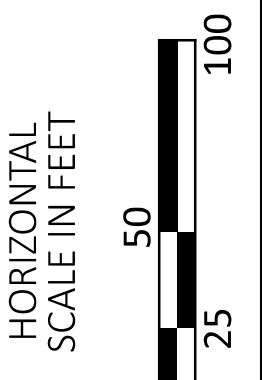
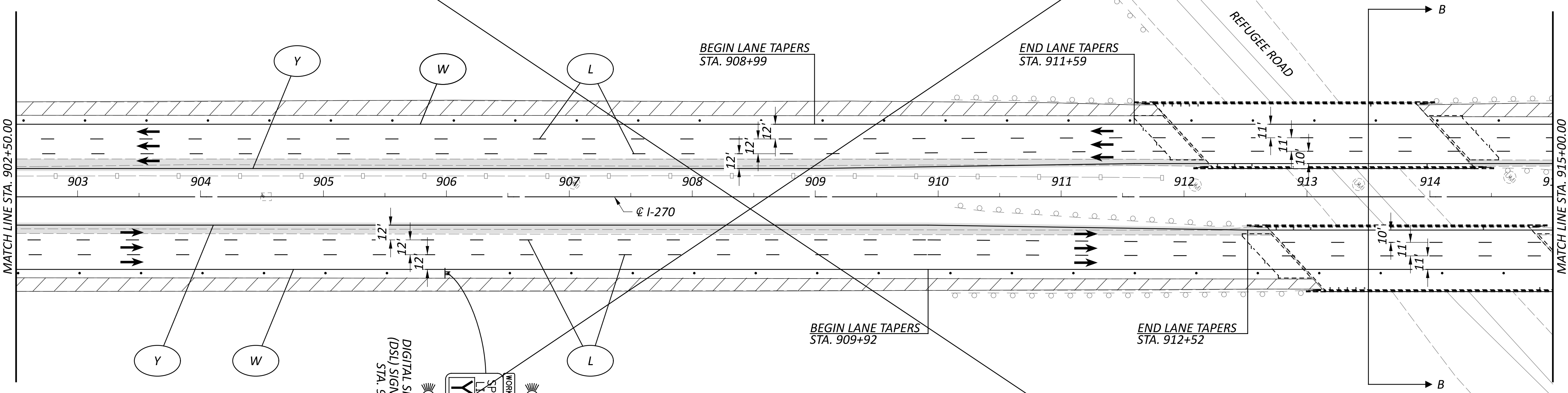
P.65

TOTAL

617



SHEET REMOVED



LEGEND

- | | | | | | | | |
|---|--|----|--|--|-------------------------------|--|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |

MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 902+50 TO STA. 915+00

DESIGN AGENCY

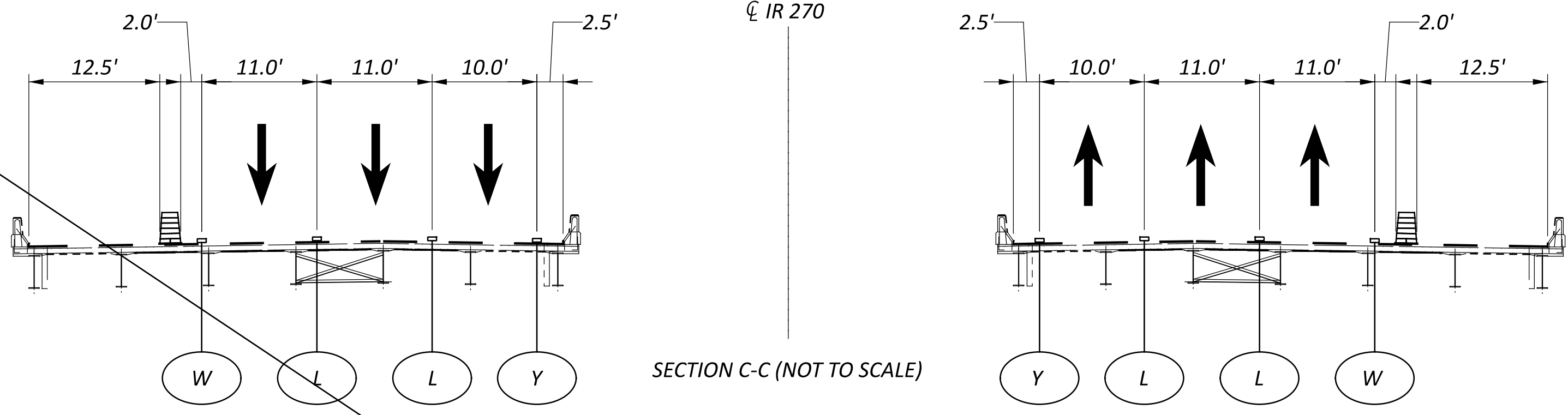
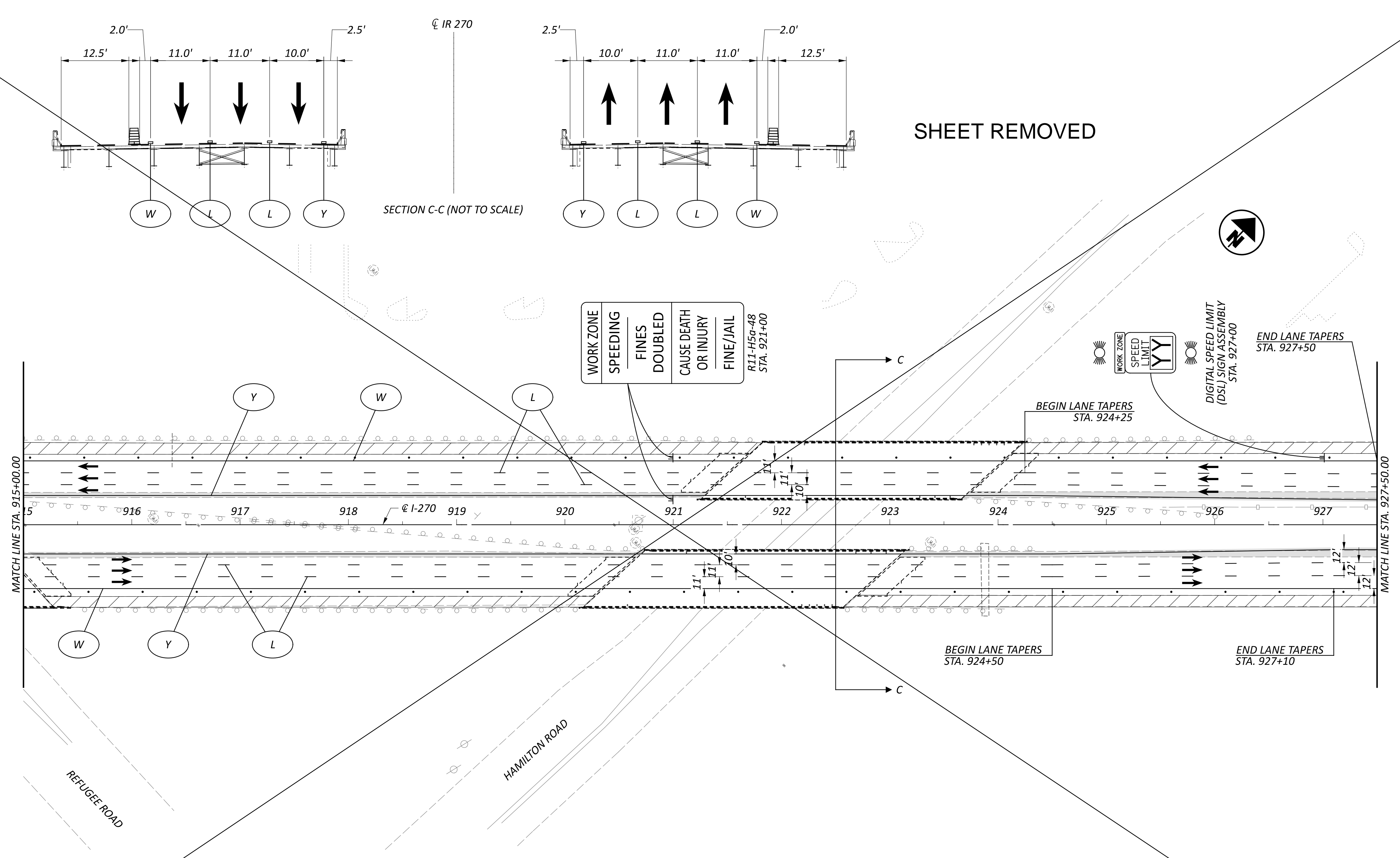
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 Grandview Heights, Ohio 44131

DESIGNER
SMB

REVIEWER
MJC 01/05/24

PROJECT ID
112798

SHEET TOTAL
P.66 617



WORK ZONE
 SPEEDING
 FINES
 DOUBLED
 CAUSE DEATH
 OR INJURY
 FINE/JAIL
 R11-H5a-48
 STA. 921+00

WORK ZONE
 SPEED
 LIMIT
 YY

DIGITAL SPEED LIMIT
 (DSL) SIGN ASSEMBLY
 STA. 927+00

END LANE TAPERS
 STA. 927+50

BEGIN LANE TAPERS
 STA. 924+25

BEGIN LANE TAPERS
 STA. 924+50

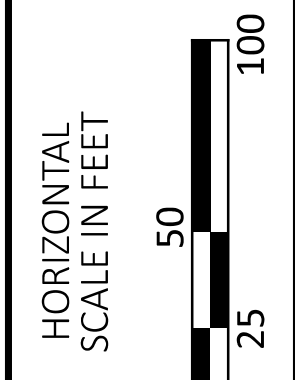
END LANE TAPERS
 STA. 927+10

MATCH LINE STA. 915+00.00

MATCH LINE STA. 927+50.00

LEGEND

- | | | | |
|--|--|-------------------------------|---------------------|
| ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | SHOULDER REPLACEMENT/WIDENING | CONSTRUCTION BARREL |
| ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | TEMPORARY PAVEMENT | DIRECTION OF TRAVEL |
| ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | ITEM 622 - PORTABLE BARRIER | WORK ZONE | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 915+00 TO STA. 927+50

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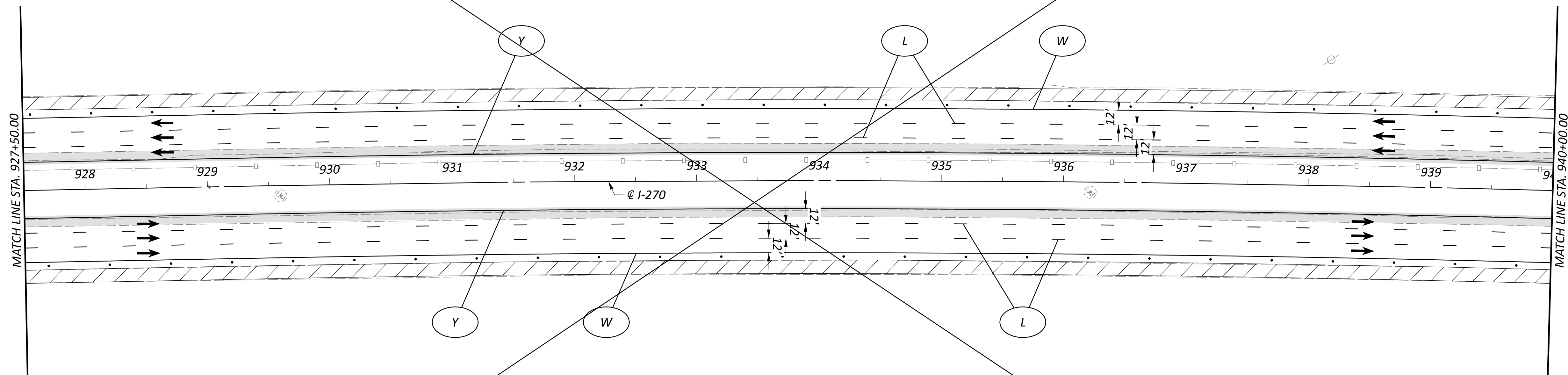
PROJECT ID

112798











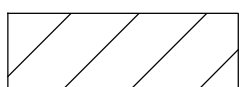

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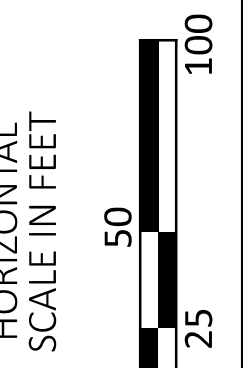
P.67 617

SHEET REMOVED



LEGEND

- | | | | | | | | |
|---|--|--|--|---|-------------------------------|---|---------------------|
|  | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  | CONSTRUCTION BARREL |
|  | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT |  | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 927+50 TO STA. 940+00

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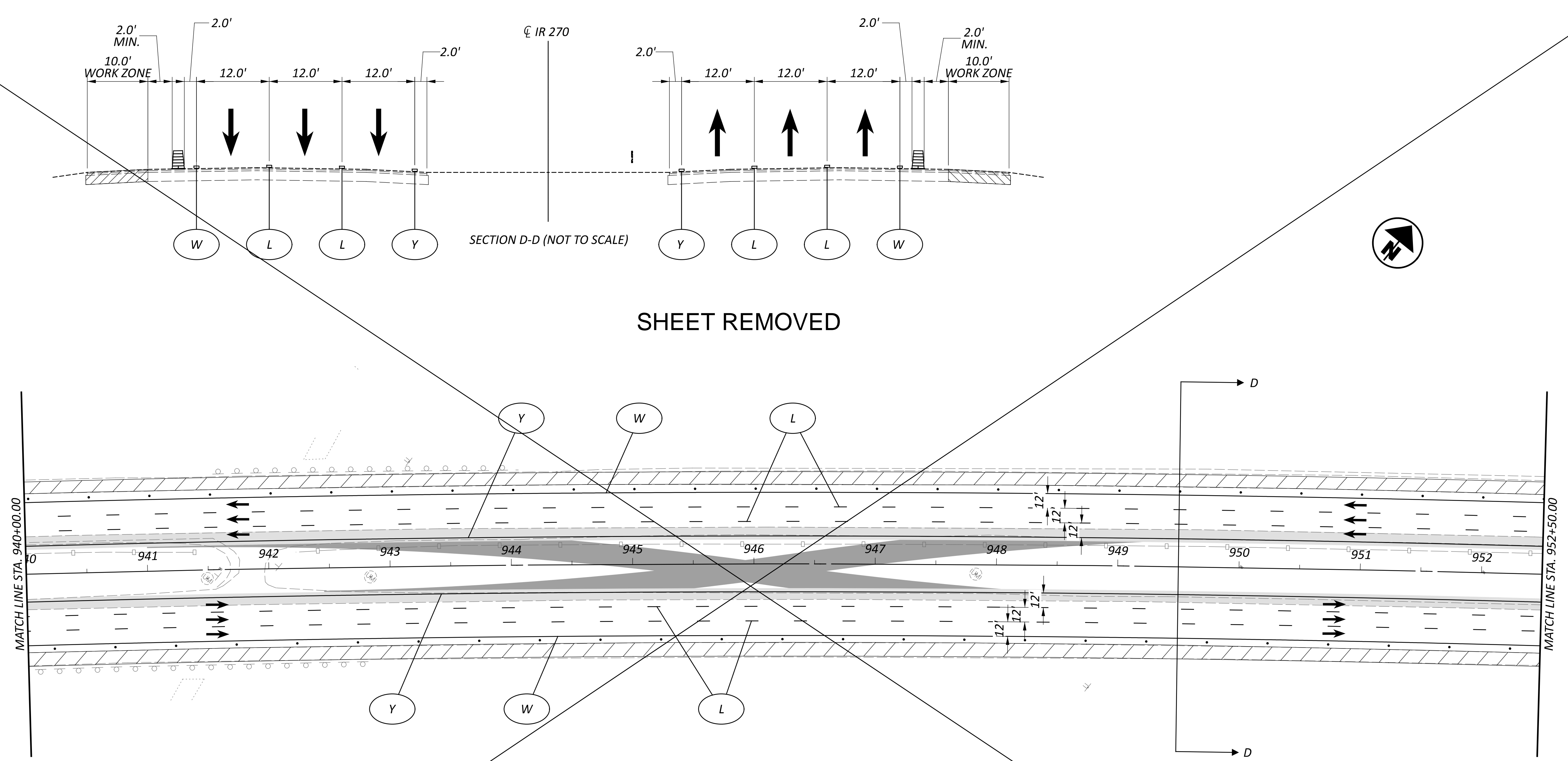
MJC 01/05/24

PROJECT ID

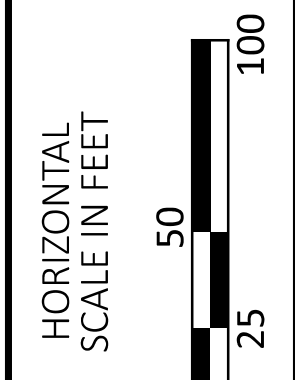
112798

SHEET TOTAL

P.68 617



SHEET REMOVED



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 940+00 TO STA. 952+50

LEGEND

- | | | | | | | | |
|---|--|----|--|--|-------------------------------|--|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |

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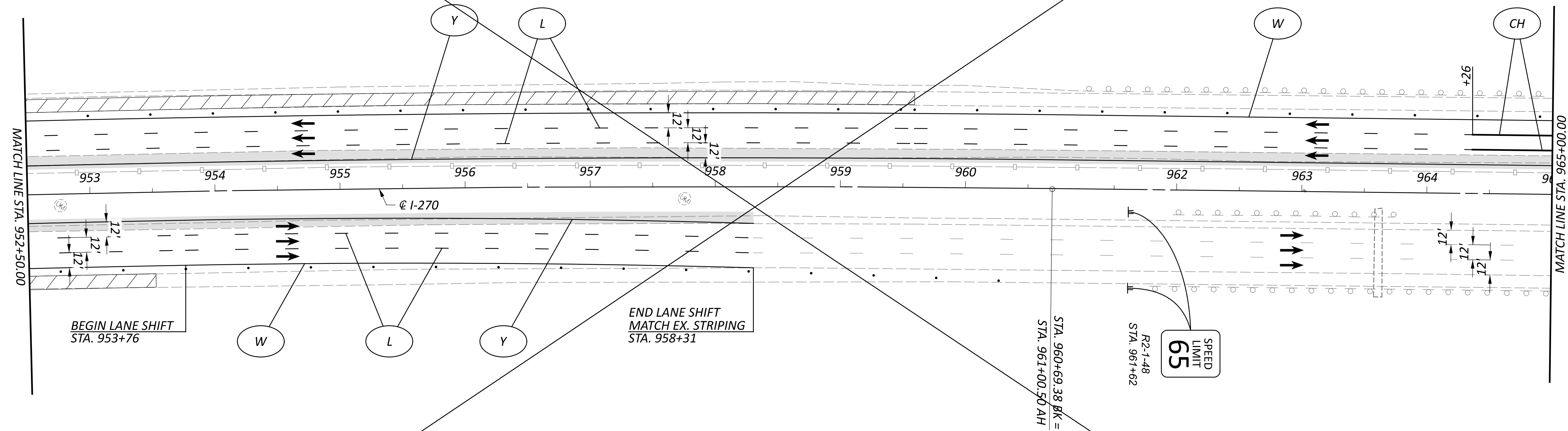
DESIGNER
 SMB

REVIEWER
 MJC 01/05/24











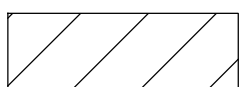

PROJECT ID
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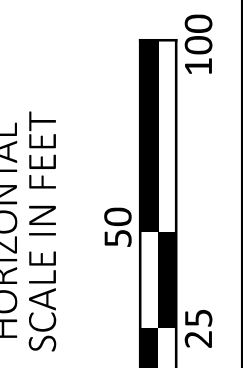
SHEET TOTAL
 P.69 617

SHEET REMOVED



LEGEND

- | | | | | | | | |
|---|--|--|--|---|-------------------------------|---|---------------------|
|  | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  | CONSTRUCTION BARREL |
|  | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT |  | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 952+50 TO STA. 965+00

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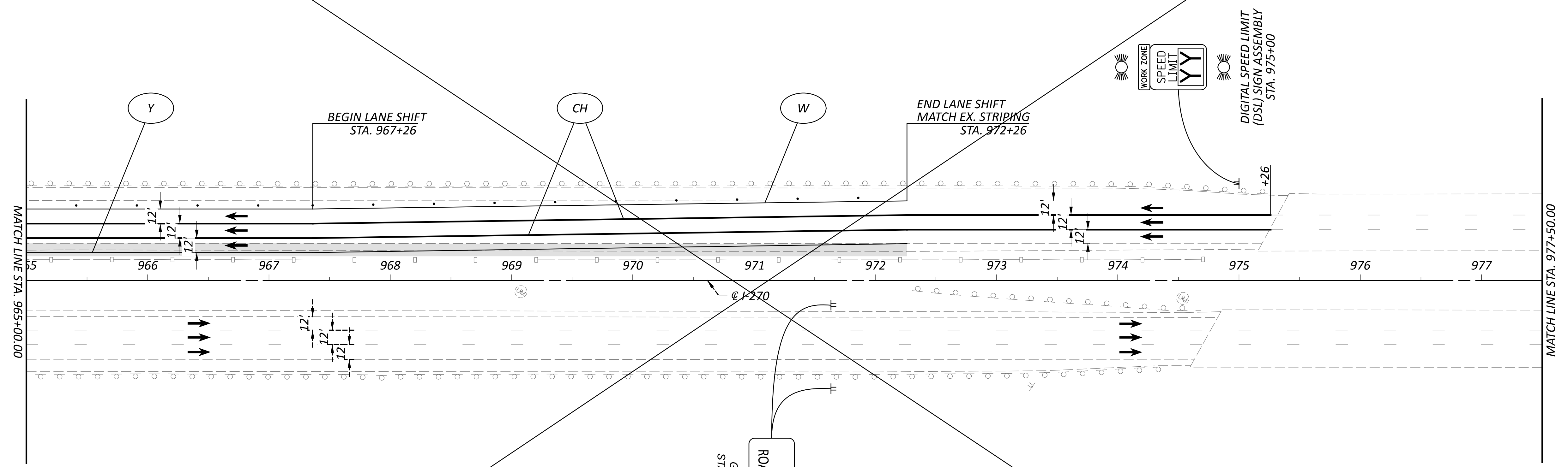
PROJECT ID

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

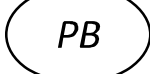


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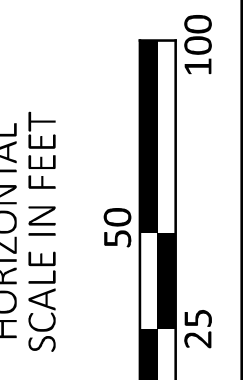
P.70 617

SHEET REMOVED



LEGEND

- | | | | | | | | |
|---|--|--|--|---|-------------------------------|---|---------------------|
|  | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  | CONSTRUCTION BARREL |
|  | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT |  | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 965+00 TO STA. 977+50

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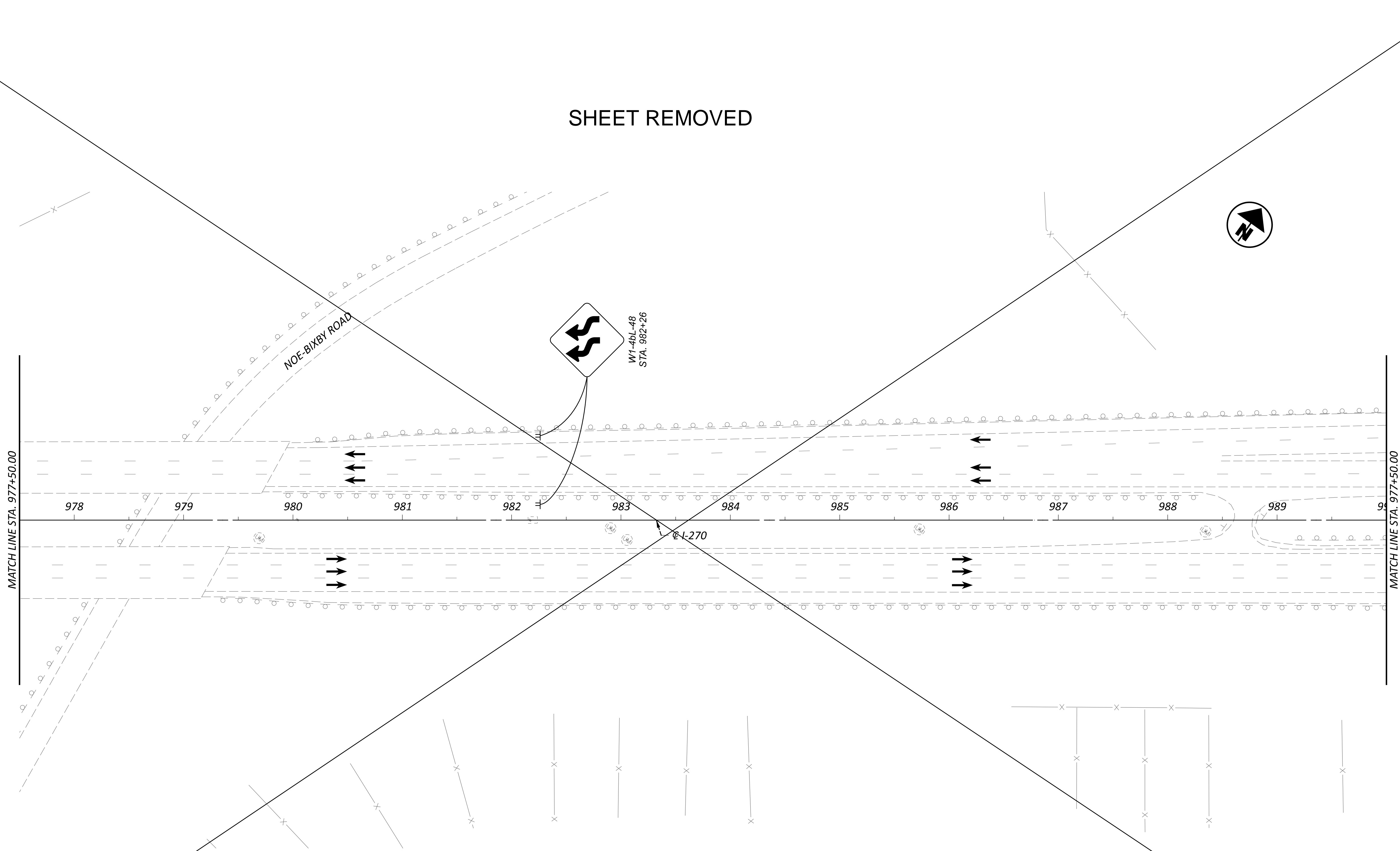
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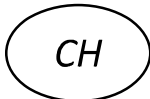







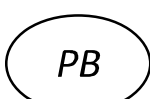


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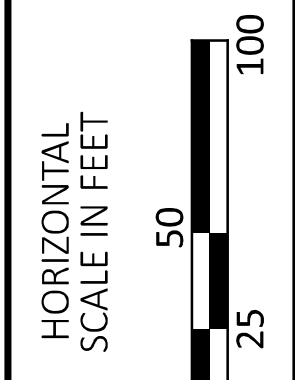
P.71 617

SHEET REMOVED



LEGEND

- | | | | | | | | |
|---|--|--|--|---|-------------------------------|---|---------------------|
|  | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  | CONSTRUCTION BARREL |
|  | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT |  | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT |  | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 977+50 TO STA. 990+00

DESIGN AGENCY



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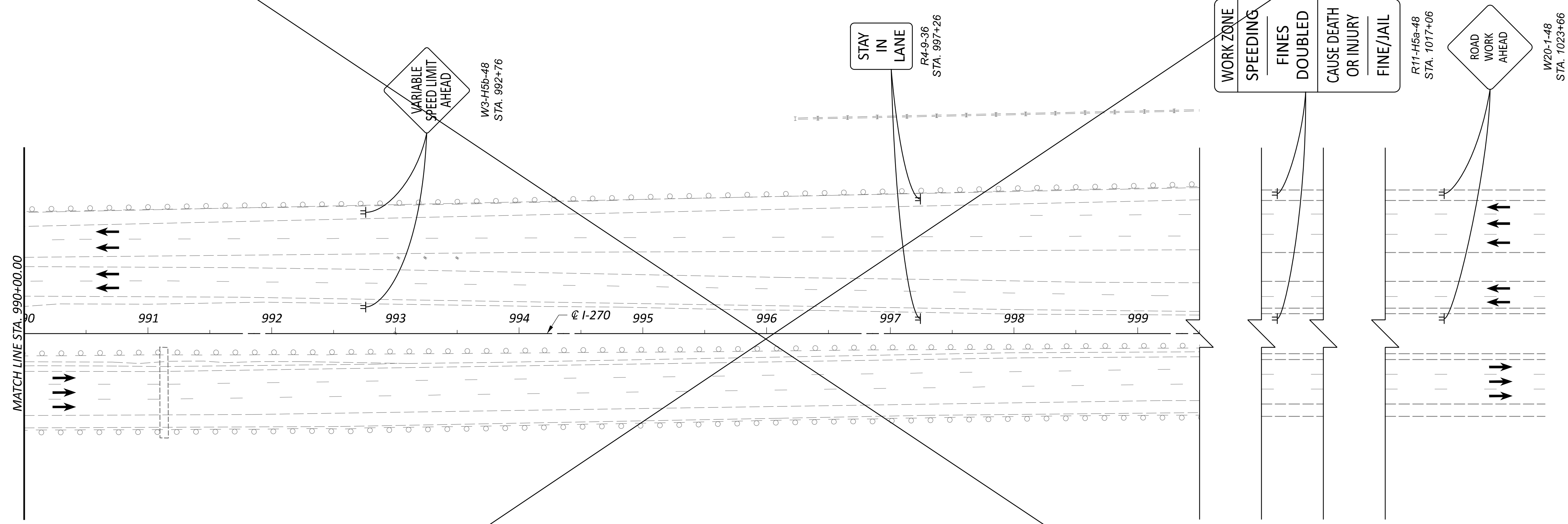
DESIGNER
SMB

REVIEWER
MJC 01/05/24

PROJECT ID
112798

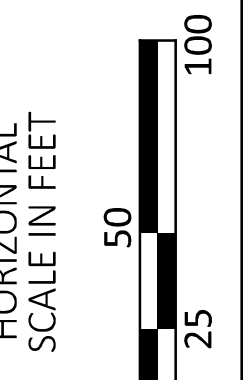
SHEET TOTAL
 P.72 617

SHEET REMOVED



LEGEND

- | | | | | | | |
|---|--|----|--|-------------------------------|------------------|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 807 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 807 PAINT | SHOULDER REPLACEMENT/WIDENING | O | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 807 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 807 PAINT | TEMPORARY PAVEMENT | → | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 807 PAINT | PB | ITEM 622 - PORTABLE BARRIER | WORK ZONE | PORTABLE BARRIER | |



MAINTENANCE OF TRAFFIC - IR 270 PRE-PHASE
 STEP 2 - STA. 990+00 TO END WORK

DESIGN AGENCY



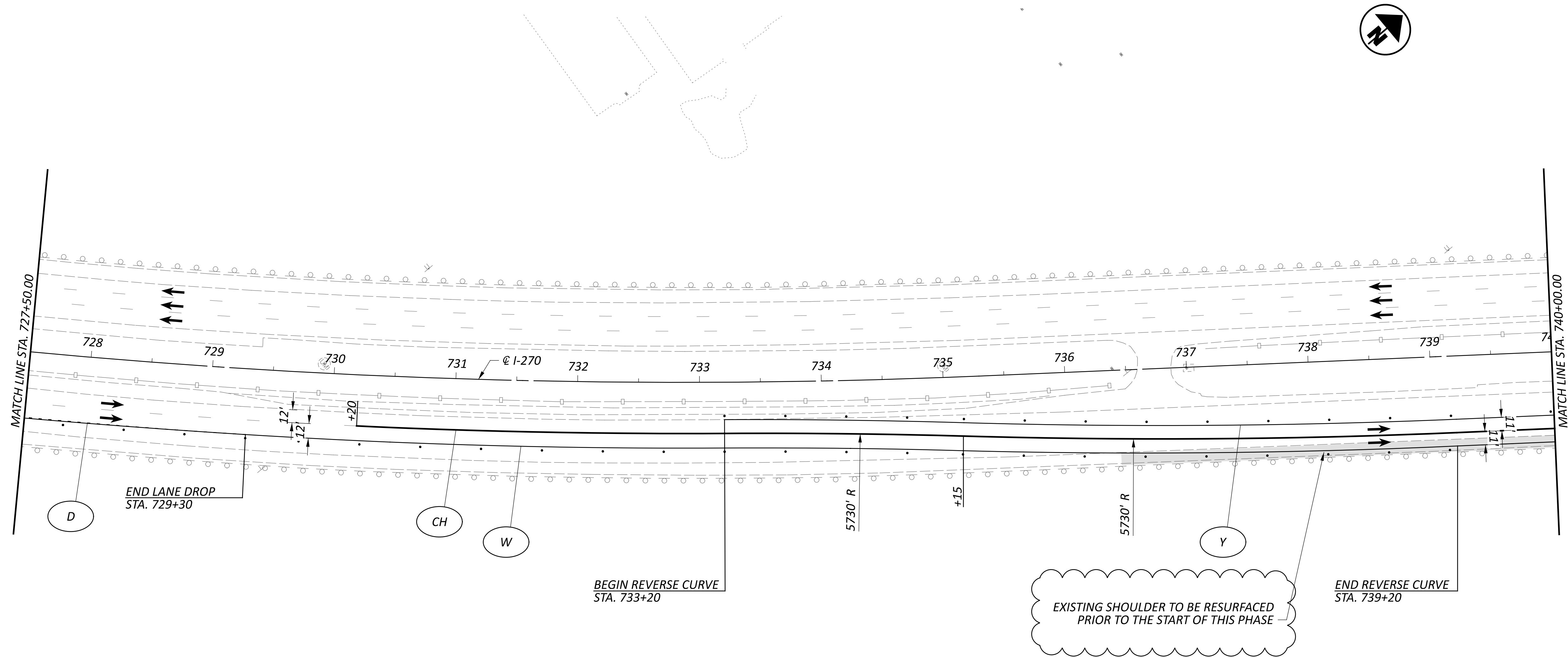
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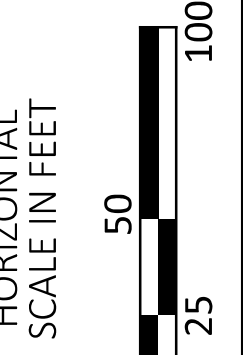
PROJECT ID
112798

SHEET TOTAL
P.73 617



LEGEND

- | | | | | | | | |
|---|--|----|--|--|-------------------------------|--|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 642 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 642 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 642 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 642 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 WORK ZONE 1
PHASE 1 - STA. 727+50 TO STA. 740+00

DESIGN AGENCY



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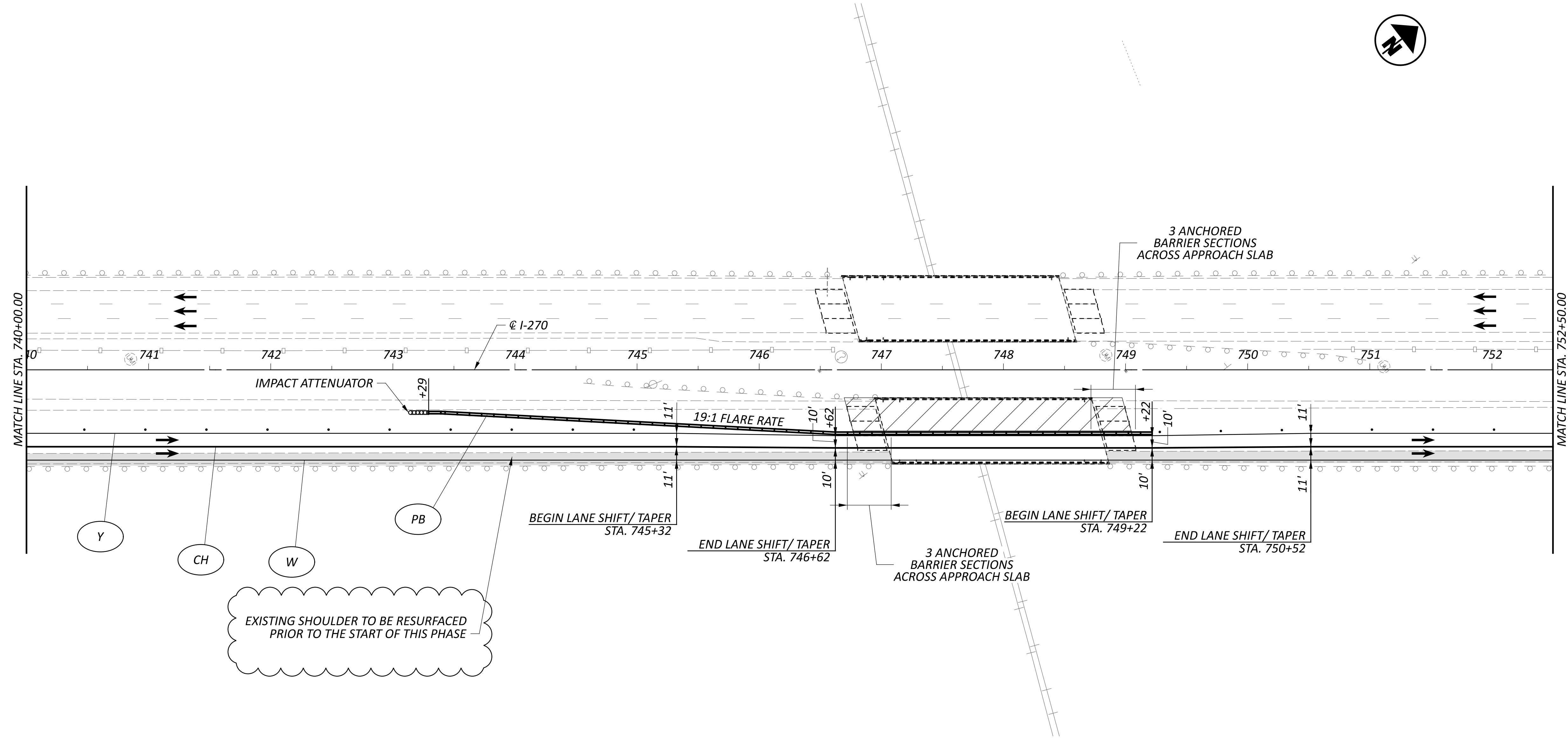
PROJECT ID

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SHEET TOTAL

P.77 617

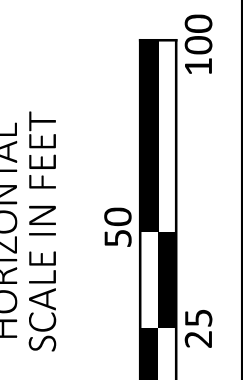
NOTE: SEE BRIDGE PLANS FOR MOT SECTION OVER THE STRUCTURE.



EXISTING SHOULDER TO BE RESURFACED PRIOR TO THE START OF THIS PHASE

LEGEND

- | | | | | | | | |
|-----|--|------|--|------------------|-------------------------------|-------|---------------------|
| (W) | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 642 PAINT | (CH) | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT | [Light Gray Box] | SHOULDER REPLACEMENT/WIDENING | (O) | CONSTRUCTION BARREL |
| (Y) | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 642 PAINT | (D) | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 642 PAINT | [Dark Gray Box] | TEMPORARY PAVEMENT | (→) | DIRECTION OF TRAVEL |
| (L) | ITEM 614 - WORK LANE LINE, CLASS I, 642 PAINT | (PB) | ITEM 622 - PORTABLE BARRIER | [Hatched Box] | WORK ZONE | (— —) | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 WORK ZONE 1
 PHASE 1 - STA. 740+00 TO STA. 752+50

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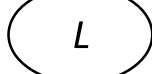
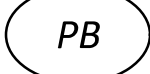


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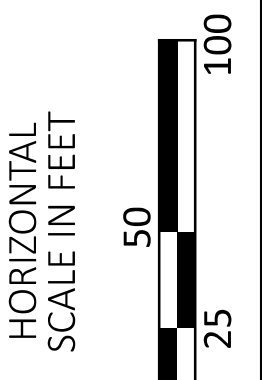
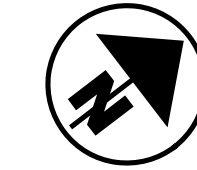
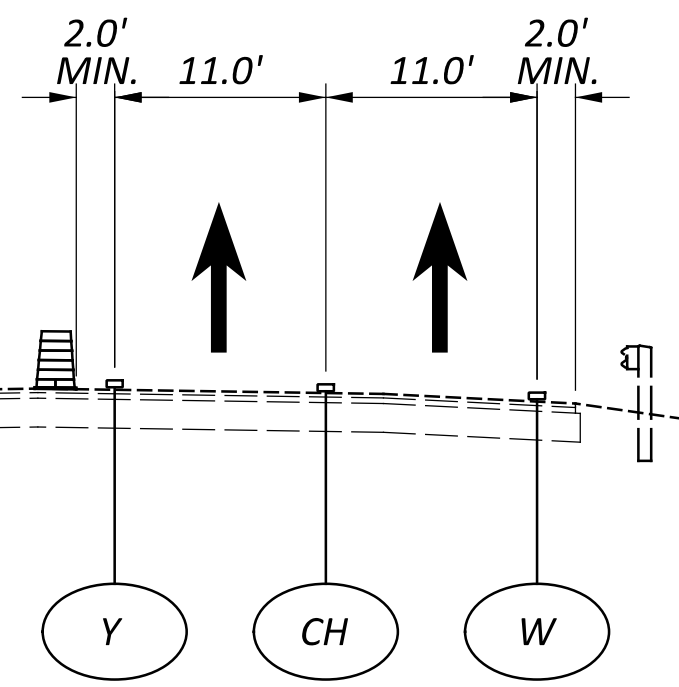
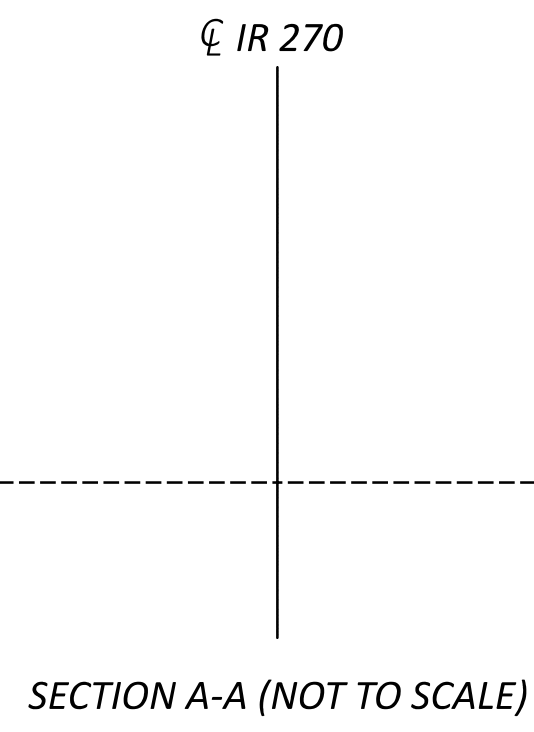
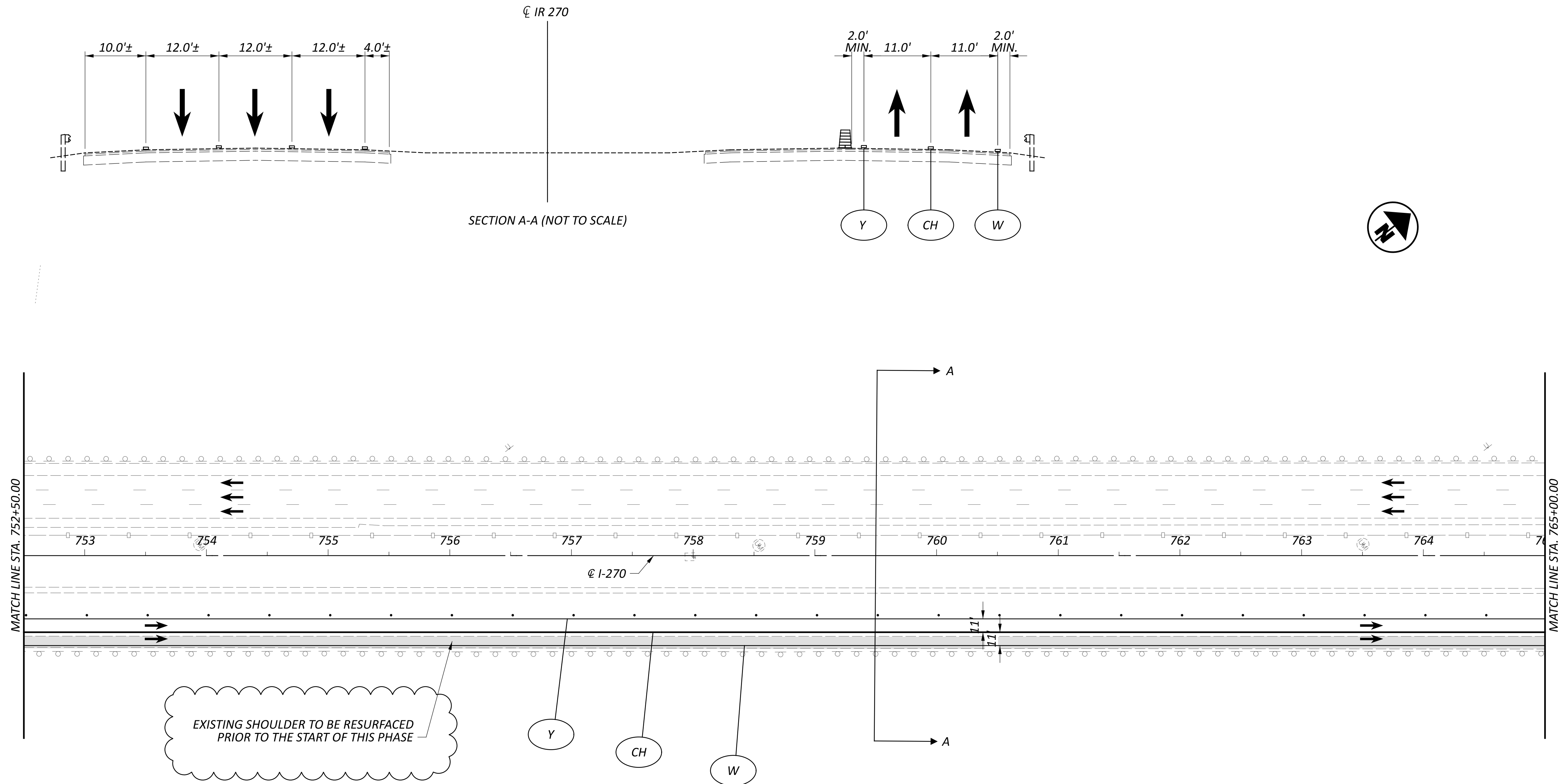
112798

SHEET TOTAL

P.78 617

LEGEND

- | | | | | | | | |
|---|--|--|--|---|-------------------------------|---|---------------------|
|  | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 642 PAINT |  | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  | CONSTRUCTION BARREL |
|  | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 642 PAINT |  | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 642 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  | ITEM 614 - WORK LANE LINE, CLASS I, 642 PAINT |  | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 WORK ZONE 1
PHASE 1 - STA. 752+50 TO STA. 765+00

DESIGN AGENCY



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REVIEWER

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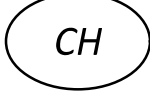










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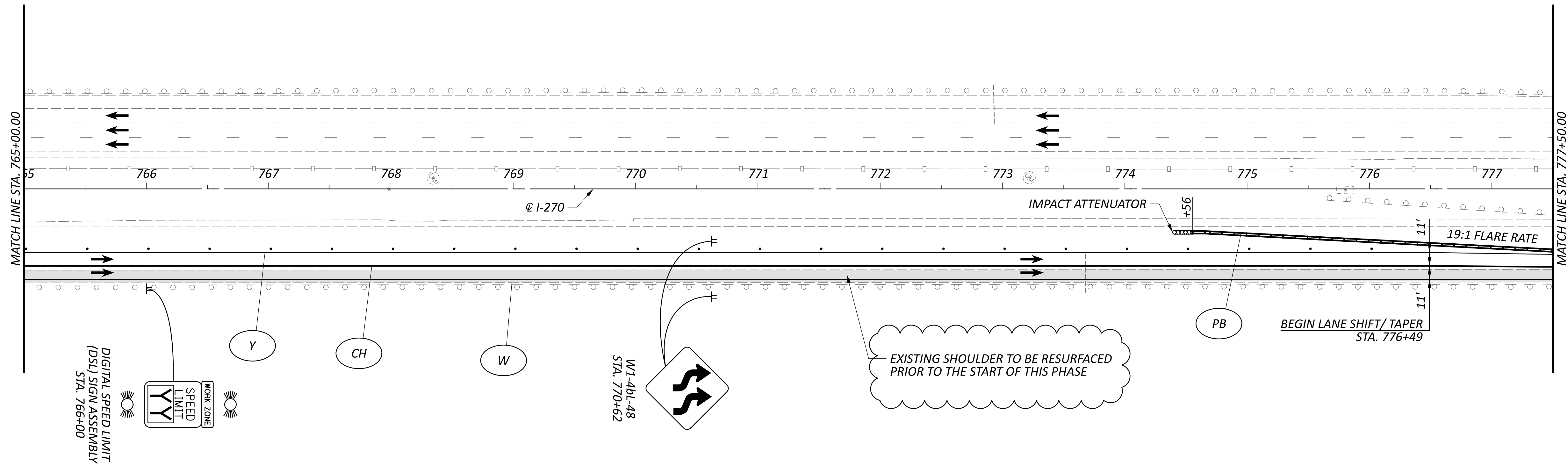
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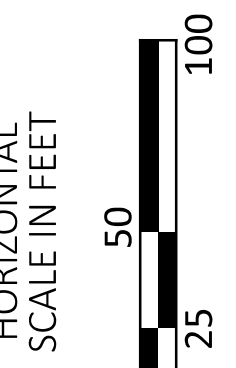
P.79 | 617

LEGEND

- | | | | | | | | |
|---|--|---|--|---|-------------------------------|---|---------------------|
|  W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 642 PAINT |  CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  | CONSTRUCTION BARREL |
|  Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 642 PAINT |  D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 642 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  L | ITEM 614 - WORK LANE LINE, CLASS I, 642 PAINT |  PB | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 WORK ZONE 1
 PHASE 1 - STA. 765+00 TO STA. 777+50



DESIGN AGENCY



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DESIGNER

SMB

REVIEWER

MJC 01/05/24

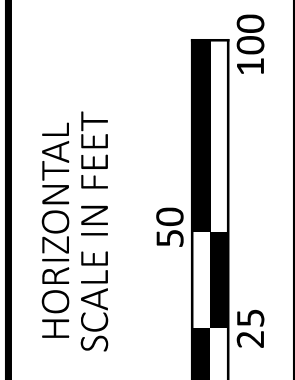
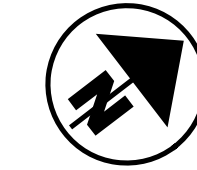
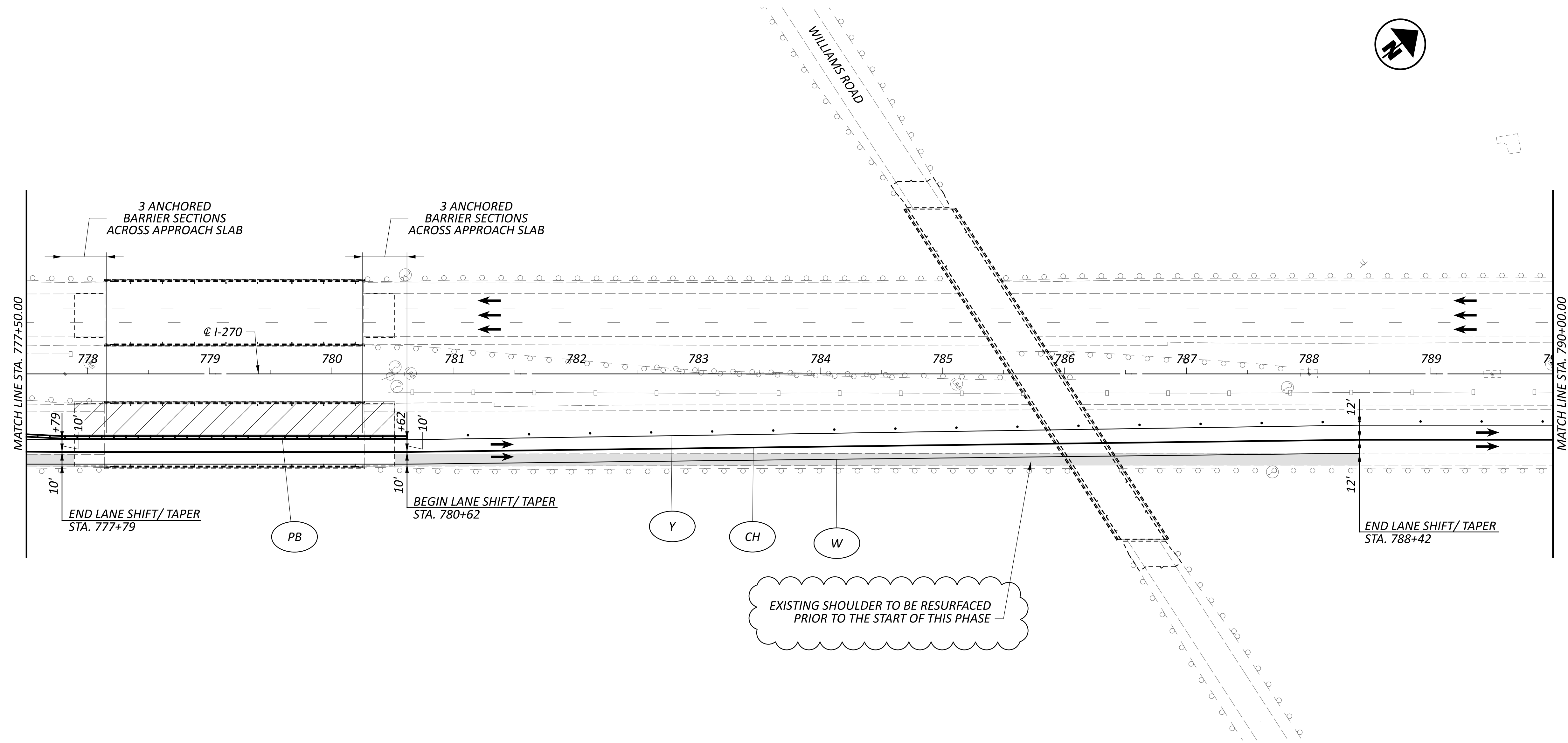
PROJECT ID

112798

SHEET TOTAL

P.80 617

NOTE: SEE BRIDGE PLANS FOR MOT SECTION OVER THE STRUCTURE.



MAINTENANCE OF TRAFFIC - IR 270 WORK ZONE 1
PHASE 1 - STA. 777+50 TO STA. 790+00

LEGEND

- | | | | | | | | |
|---|--|----|--|--|-------------------------------|--|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 642 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 642 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 642 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 642 PAINT | PB | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |

DESIGN AGENCY



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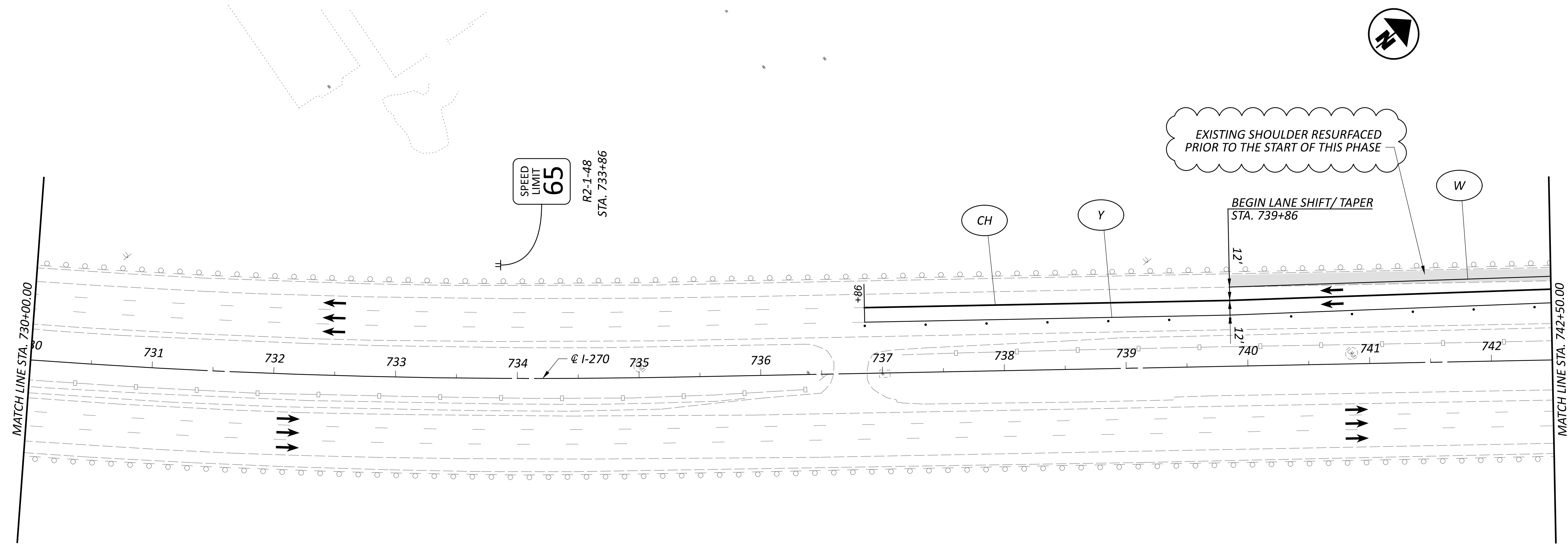
MJC 01/05/24

PROJECT ID

112798

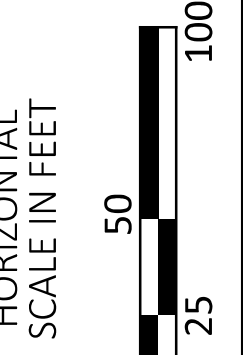
SHEET TOTAL

P.81 617



LEGEND

- | | | | | | | | |
|--|--|--|--|--|-------------------------------|--|---------------------|
| | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 642 PAINT | | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 642 PAINT | | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 642 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| | ITEM 614 - WORK LANE LINE, CLASS I, 642 PAINT | | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 WORK ZONE 1
PHASE 3 - STA. 730+00 TO STA. 742+50

DESIGN AGENCY



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SMB

REVIEWER

MJC 01/05/24

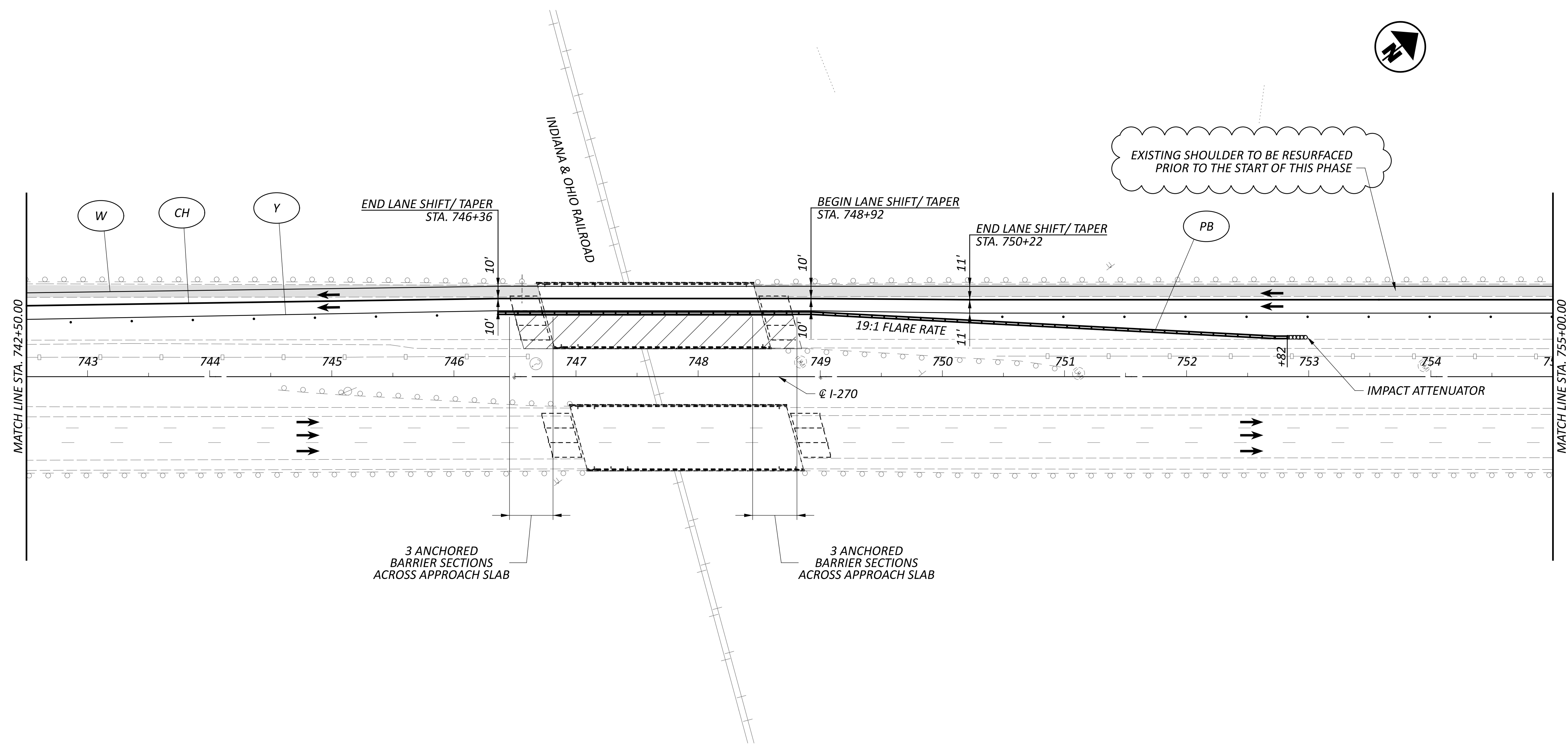
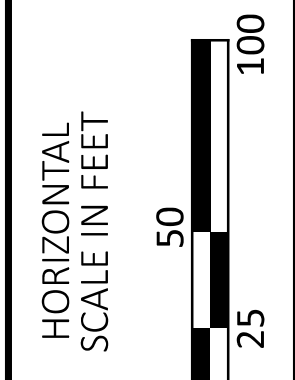
PROJECT ID

112798

SHEET TOTAL

P.98 617

NOTE: SEE BRIDGE PLANS FOR MOT SECTION OVER THE STRUCTURE.



MAINTENANCE OF TRAFFIC - IR 270 WORK ZONE 1
 PHASE 3 - STA. 742+50 TO STA. 755+00

FRA-270-43.18

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LEGEND

- | | | | | | | |
|---|--|----|--|-------------------------------|-------|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 642 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT | SHOULDER REPLACEMENT/WIDENING | O | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 642 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 642 PAINT | TEMPORARY PAVEMENT | → | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 642 PAINT | PB | ITEM 622 - PORTABLE BARRIER | WORK ZONE | — — — | PORTABLE BARRIER |

DESIGN AGENCY

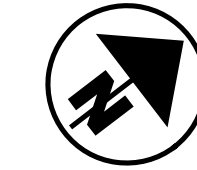
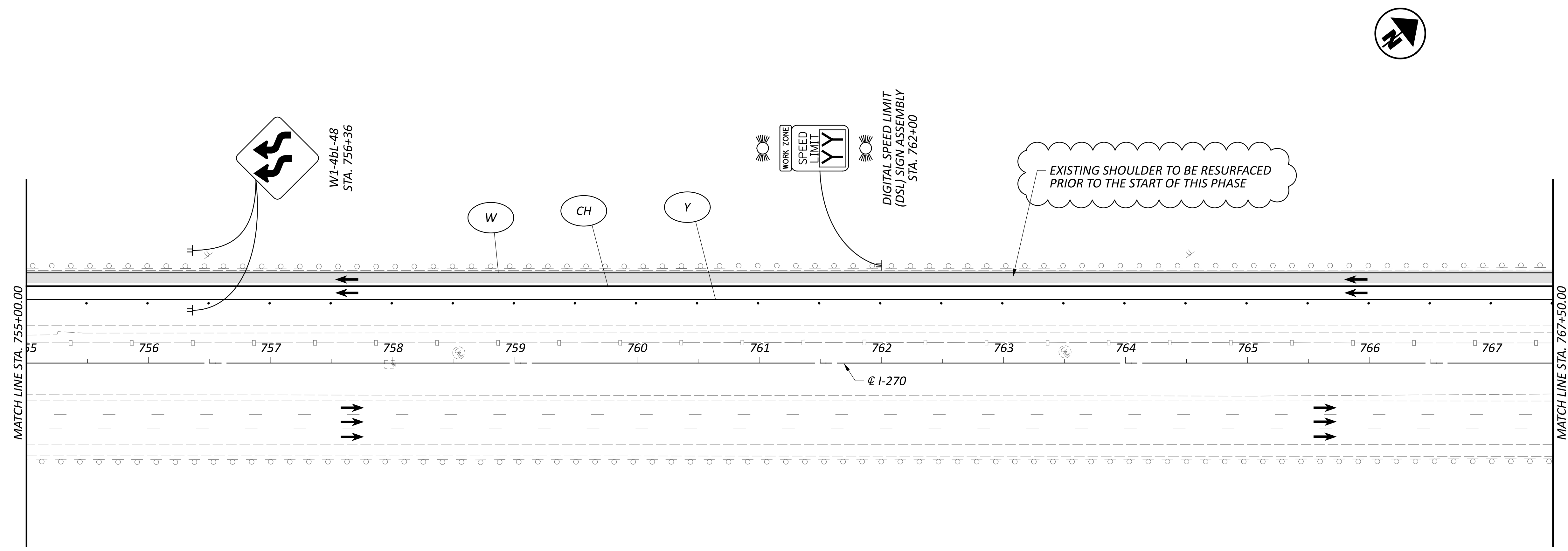
E.L. ROBINSON
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 Grandview Heights, Ohio

DESIGNER
SMB


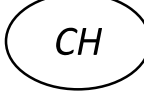


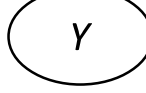




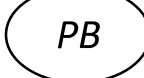


REVIEWER
MJC 01/05/24

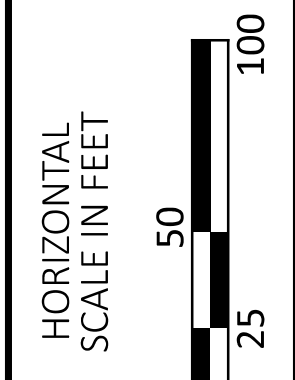
PROJECT ID
112798

SHEET TOTAL
P.99 617



LEGEND

- | | | | | | | | |
|---|--|--|--|---|-------------------------------|---|---------------------|
|  | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 642 PAINT |  | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  | CONSTRUCTION BARREL |
|  | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 642 PAINT |  | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 642 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  | ITEM 614 - WORK LANE LINE, CLASS I, 642 PAINT |  | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 WORK ZONE 1
PHASE 3 - STA. 755+00 TO STA. 767+50

DESIGN AGENCY



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REVIEWER

MJC 01/05/24

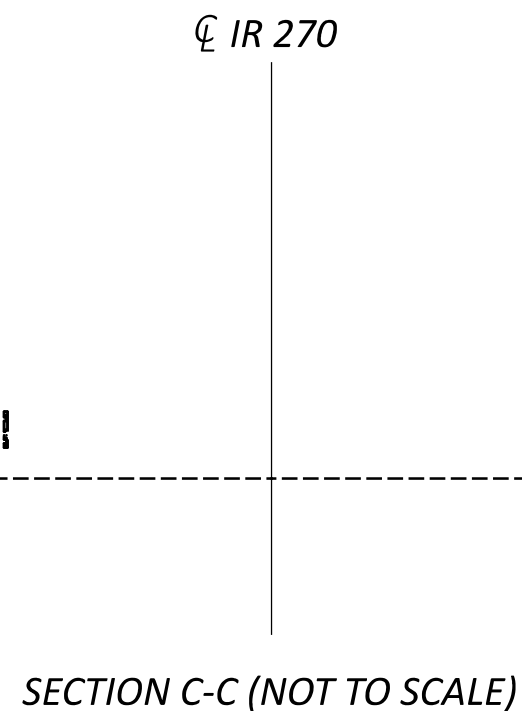
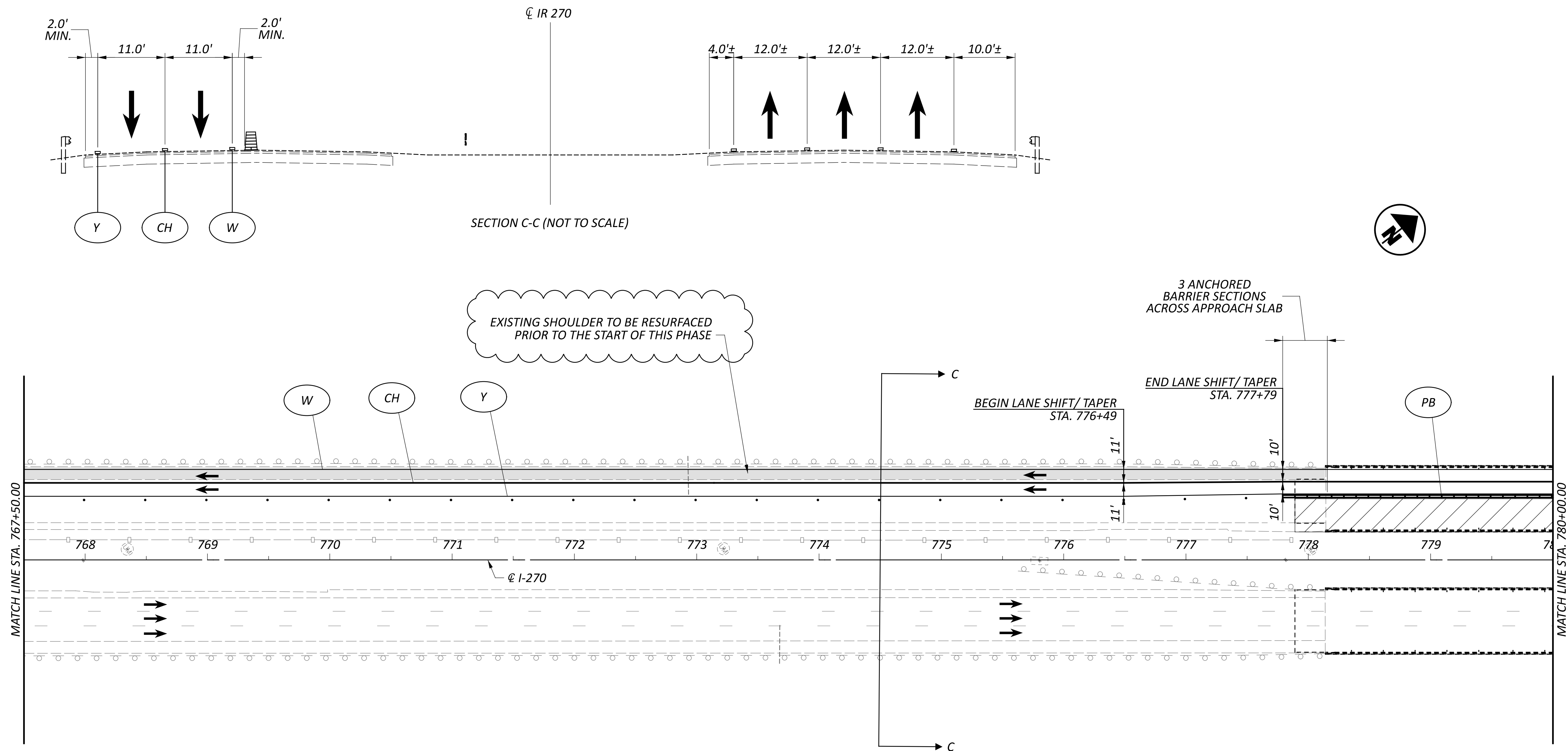
PROJECT ID

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SHEET TOTAL

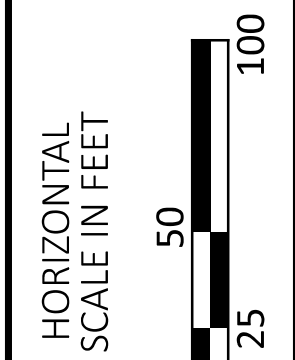
P.100 617

NOTE: SEE BRIDGE PLANS FOR MOT SECTION OVER THE STRUCTURE.



LEGEND

- | | | | | | |
|---|--|----|--|-------------------------------|---------------------|
| W | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 642 PAINT | CH | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT | SHOULDER REPLACEMENT/WIDENING | CONSTRUCTION BARREL |
| Y | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 642 PAINT | D | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 642 PAINT | TEMPORARY PAVEMENT | DIRECTION OF TRAVEL |
| L | ITEM 614 - WORK LANE LINE, CLASS I, 642 PAINT | PB | ITEM 622 - PORTABLE BARRIER | WORK ZONE | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 WORK ZONE 1
 PHASE 3 - STA. 767+50 TO STA. 780+00

DESIGN AGENCY



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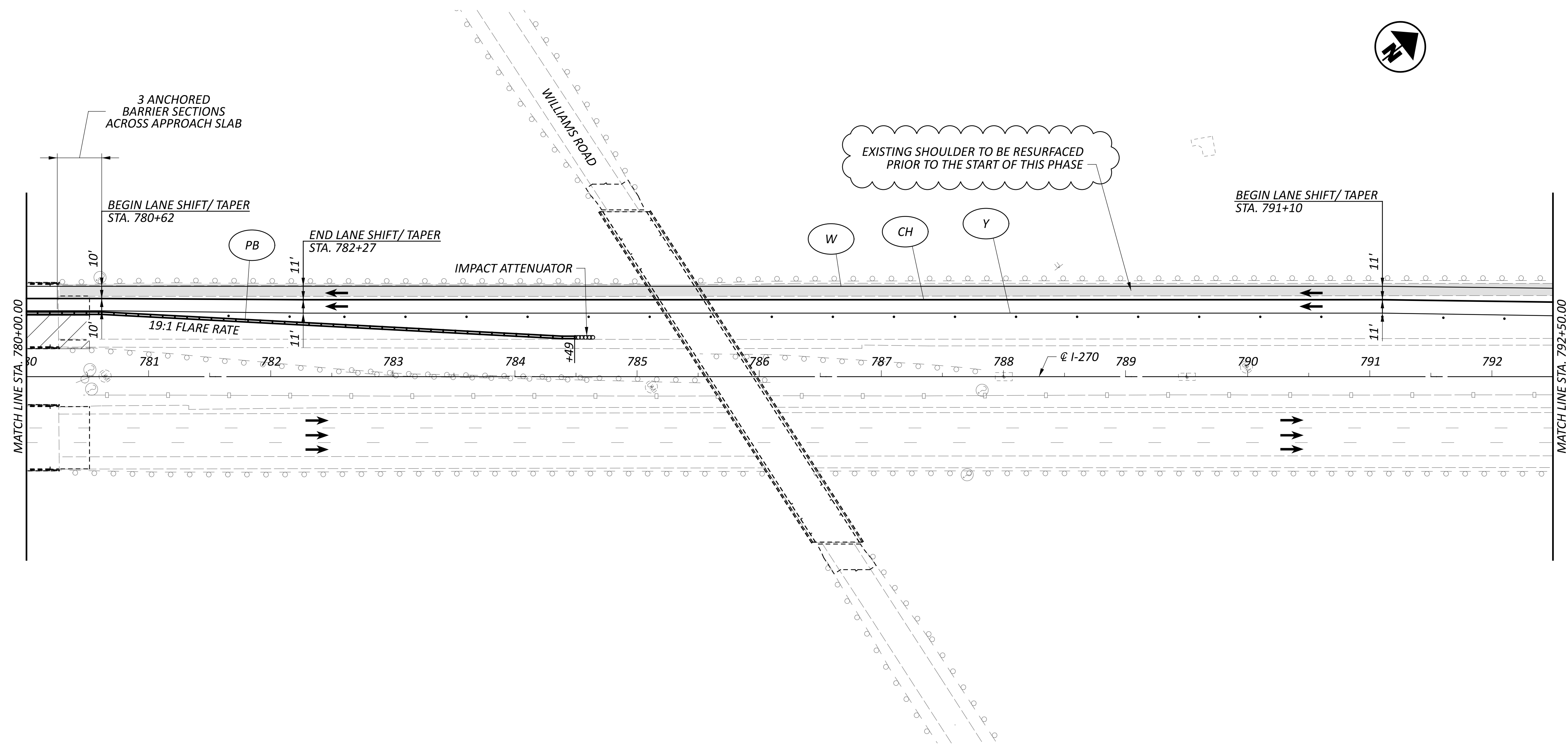
MJC 01/05/24

PROJECT ID













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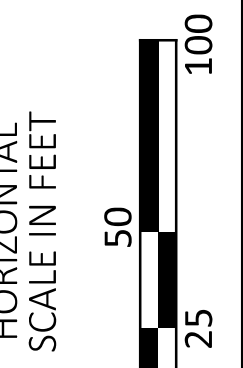
SHEET TOTAL

P.101 617



LEGEND

- | | | | | | | | |
|---|--|--|--|---|-------------------------------|---|---------------------|
|  | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 642 PAINT |  | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT |  | SHOULDER REPLACEMENT/WIDENING |  | CONSTRUCTION BARREL |
|  | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 642 PAINT |  | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 642 PAINT |  | TEMPORARY PAVEMENT |  | DIRECTION OF TRAVEL |
|  | ITEM 614 - WORK LANE LINE, CLASS I, 642 PAINT |  | ITEM 622 - PORTABLE BARRIER |  | WORK ZONE |  | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 WORK ZONE 1
PHASE 3 - STA. 780+00 TO STA. 792+50

DESIGN AGENCY



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MJC 01/05/24

PROJECT ID

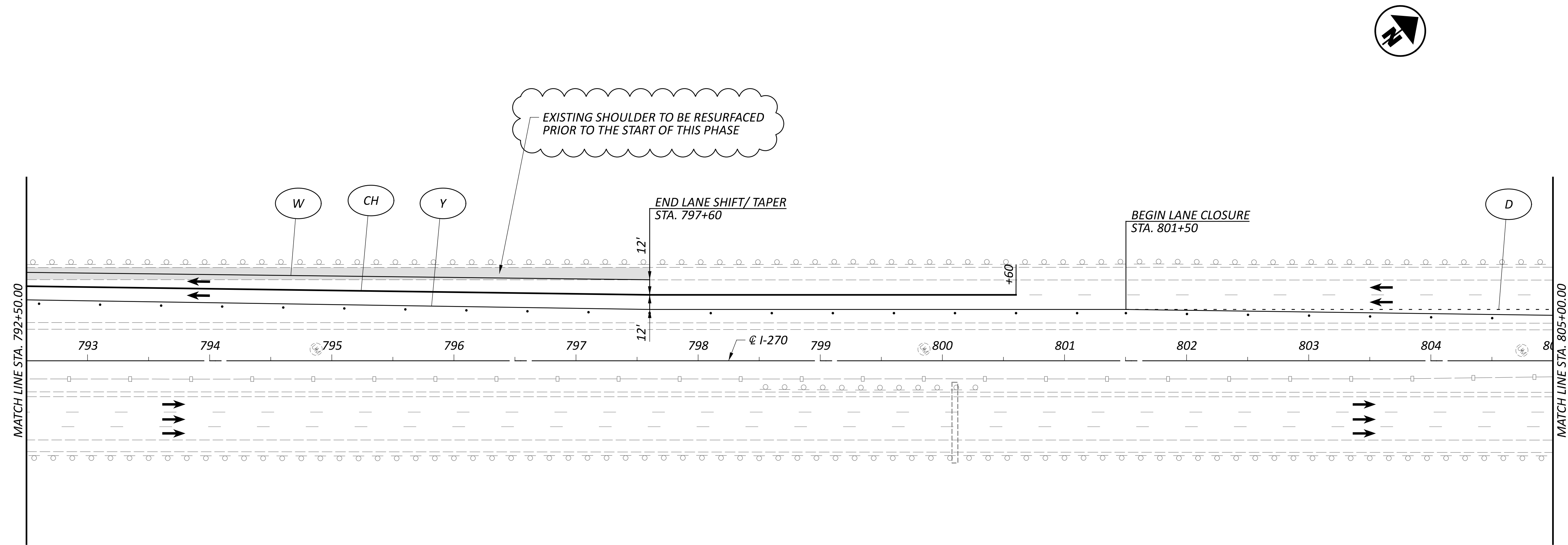
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SHEET TOTAL

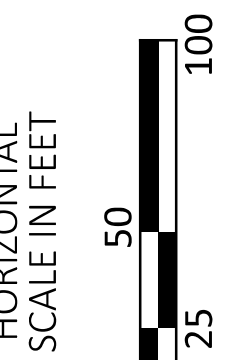
P.102 617

LEGEND

- | | | | | | | | |
|--|--|--|--|--|-------------------------------|--|---------------------|
| | ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 642 PAINT | | ITEM 614 - WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT | | SHOULDER REPLACEMENT/WIDENING | | CONSTRUCTION BARREL |
| | ITEM 614 - WORK ZONE EDGE LINE, YELLOW, CLASS I, 642 PAINT | | ITEM 614 - WORK ZONE DOTTED LINE, CLASS I, 642 PAINT | | TEMPORARY PAVEMENT | | DIRECTION OF TRAVEL |
| | ITEM 614 - WORK LANE LINE, CLASS I, 642 PAINT | | ITEM 622 - PORTABLE BARRIER | | WORK ZONE | | PORTABLE BARRIER |



MAINTENANCE OF TRAFFIC - IR 270 WORK ZONE 1
PHASE 3 - STA. 792+50 TO STA. 805+00



DESIGN AGENCY



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SMB

REVIEWER

MJC 01/05/24

PROJECT ID

112798

SHEET TOTAL

P.103 617

SHEET NUM.														PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.		
14	15	38	39	41	42	276	277	278	279	280	285	319	320	01/IMS/05	02/IMS/13								
														LUMP		201	11000	LS		CLEARING AND GRUBBING			
														LUMP		202	23000	18,578	SY	PAVEMENT REMOVED			
														LUMP		202	35100	1,008	FT	PIPE REMOVED, 24" AND UNDER			
														LUMP		202	38001	29,978	FT	GUARDRAIL REMOVED, AS PER PLAN	16		
														LUMP		202	42011	15	EACH	ANCHOR ASSEMBLY REMOVED, TYPE E, AS PER PLAN	16		
														LUMP		202	42041	12	EACH	ANCHOR ASSEMBLY REMOVED, TYPE T, AS PER PLAN	16		
														LUMP		202	42051	7	EACH	ANCHOR ASSEMBLY REMOVED, TYPE B, AS PER PLAN	16		
														LUMP		202	47001	51	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED, AS PER PLAN	16		
														LUMP		202	48001	2,160	FT	CABLE BARRIER REMOVED, AS PER PLAN	24		
														LUMP		202	58100	7	EACH	CATCH BASIN REMOVED			
														LUMP		SPECIAL	20270110	16	FT	PIPE CLEANOUT, 24" AND UNDER	15		
														LUMP		203	20001	952	CY	EMBANKMENT, AS PER PLAN	16		
														LUMP		204	10000	589	SY	SUBGRADE COMPACTION			
														LUMP		209	15001	145	STA	RESHAPING UNDER GUARDRAIL, AS PER PLAN	16		
														LUMP		209	60200	607	STA	LINEAR GRADING			
														LUMP		606	15050	29,947	FT	GUARDRAIL, TYPE MGS			
														LUMP		606	26050	7	EACH	ANCHOR ASSEMBLY, MGS TYPE B	16		
														LUMP		606	26150	16	EACH	ANCHOR ASSEMBLY, MGS TYPE E, (MASH 2016)	16		
														LUMP		606	26550	12	EACH	ANCHOR ASSEMBLY, MGS TYPE T			
														LUMP		606	35002	36	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1			
														LUMP		606	35102	15	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2			
														LUMP		622	10200	3	EACH	BARRIER TRANSITION			
														LUMP		SPECIAL	69071000	LS		ASBESTOS ABATEMENT (FRA-00270-46.130R, FRA-C0123-0.00)	14		
														LUMP							EROSION CONTROL		
														LUMP		601	21060	909	SY	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT			
														LUMP		660	25000	6,400	SY	SODDING STAKED			
														LUMP		670	00500	6,400	SY	SLOPE EROSION PROTECTION			
														LUMP		832	15000	LS		STORM WATER POLLUTION PREVENTION PLAN			
														LUMP		832	15002	LS		STORM WATER POLLUTION PREVENTION INSPECTIONS			
														LUMP		832	15010	LS		STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE			
														LUMP		832	30000	260,000	EACH	EROSION CONTROL			
														LUMP							DRAINAGE		
														LUMP		611	04400	454	FT	12" CONDUIT, TYPE B			
														LUMP		611	04600	10	FT	12" CONDUIT, TYPE C			
														LUMP		611	05900	524	FT	15" CONDUIT, TYPE B			
														LUMP		611	10400	16	FT	24" CONDUIT, TYPE B, 706.02			
														LUMP		611	98470	7	EACH	CATCH BASIN, NO. 2-2B			
														LUMP		611	99574	1	EACH	MANHOLE, NO. 3			
														LUMP		611	99660	2	EACH	MANHOLE RECONSTRUCTED TO GRADE			
														LUMP		833	10000	345	FT	CONDUIT RENEWAL USING SPRAY APPLIED STRUCTURAL LINER, ROUND CONDUIT (42" DIAMETER)			
														LUMP		899	10000	192	FT	CURED-IN-PLACE PIPE LINER (15" DIAMETER)			

GENERAL SUMMARY

DESIGN AGENCY



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ACF

REVIEWER
MJC 01/05/24

PROJECT ID
112798

SHEET TOTAL
P.264 | 617

SHEET NUM.														PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
15	16	17	38	276	277	279	280	281	284	334	343	344	01/IMS/05	02/IMS/13							
PAVEMENT																					
20									3,520				3,540		251	01021	3,540	SY	PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN, 2" - 2' W	15	
20									3,377				3,397		251	01021	3,397	SY	PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN, 4"	15	
	250												250		251	01031	250	CY	PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN, 5.25"	16	
						203,791	109,723	24,642					338,156		254	01000	338,156	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.50"		
						4,131	2,660	466					7,257		254	01000	7,257	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 1.75" AVG.		
						588	502						1,090		254	01000	1,090	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 2.00"		
		36,890											36,890		254	01000	36,890	SY	PAVEMENT PLANING, ASPHALT CONCRETE, 3.00"		
20													277		255	10501	277	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS QC MS, AS PER PLAN, 13"	15	
20													20		255	10501	20	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS RRCM, AS PER PLAN, 13"	15	
	21												21		255	10501	21	SY	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT, CLASS RRCM, AS PER PLAN	16	
													772		255	20000	772	FT	FULL DEPTH PAVEMENT SAWING		
	27												257		257	10001	284	SY	DIAMOND GRINDING PORTLAND CEMENT CONCRETE PAVEMENT, AS PER PLAN	15	
						43	94						137		302	56000	137	CY	ASPHALT CONCRETE BASE, PG64-22, (449)		
						27	71						98		304	20000	98	CY	AGGREGATE BASE		
						12,539	6,988	1,507					21,034		407	20000	21,034	GAL	NON-TRACKING TACK COAT		
			156										156		411	10000	156	CY	STABILIZED CRUSHED AGGREGATE		
						7,015	3,949	1,775					12,739		442	00100	12,739	CY	ANTI-SEGREGATION EQUIPMENT		
								1,395					1,395		442	10001	1,395	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (446), AS PER PLAN, 76-22M	15	
						8	18						26		442	10080	26	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5 MM, TYPE A (446)		
		3,075											3,075		442	10100	3,075	CY	ASPHALT CONCRETE INTERMEDIATE COURSE, 19 MM, TYPE A (446)		
													40		442	10300	40	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447)		
						11,593	6,239						17,832		442	10301	17,832	CY	ASPHALT CONCRETE SURFACE COURSE, 12.5 MM, TYPE A (447), AS PER PLAN	16	
						288	360						648		609	24510	648	FT	CURB, TYPE 4-C		
								211	132				343		617	10100	343	CY	COMPACTED AGGREGATE		
1,814								33,920	17,745				53,479		618	40100	53,479	FT	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)		
TRAFFIC CONTROL																					
												981	123	1,104	621	00100	1,104	EACH	RPM		
												1,025	123	1,148	621	54000	1,148	EACH	RAISED PAVEMENT MARKER REMOVED		
						29							29		626	00102	29	EACH	BARRIER REFLECTOR, TYPE 1, (ONE-WAY)		
						3							3		626	00102	3	EACH	BARRIER REFLECTOR, TYPE 1, (BI-DIRECTIONAL)		
					255	171							426		626	00110	426	EACH	BARRIER REFLECTOR, TYPE 2, (ONE- WAY)		
												33		33	630	04100	33	FT	GROUND MOUNTED SUPPORT, NO. 4 POST		
												1		1	630	79610	1	EACH	SIGN SUPPORT ASSEMBLY, BARRIER MOUNTED		
												32		32	630	80100	32	SF	SIGN, FLAT SHEET		
												200		200	644	00700	200	FT	TRANSVERSE/DIAGONAL LINE, 20" (YELLOW)		
												1		1	644	01350	1	EACH	LANE REDUCTION ARROW		
20													20		644	40000	20	EACH	SPEED MEASUREMENT MARKING		
											1.05	1.05	807		807	12010	1.05	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6" (WHITE)		
											0.88	0.88	807		807	12010	0.88	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, EDGE LINE, 6" (YELLOW)		
											1.49	1.49	807		807	12110	1.49	MILE	WET REFLECTIVE EPOXY PAVEMENT MARKING, LANE LINE, 6"		
											435	435	807		807	12310	435	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, CHANNELIZING LINE, 12"		
											644	644	807		807	12410	644	FT	WET REFLECTIVE EPOXY PAVEMENT MARKING, DOTTED LINE, 6"		
											10.64	1.81	807		807	14010	12.45	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (WHITE)		
											10.62	1.81	807		807	14010	12.43	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, EDGE LINE, 6" (YELLOW)		
											17.91	17.91	807		807	14110	17.91	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"		
											5,989	5,989	807		807	14310	5,989	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CHANNELIZING LINE, 12"		
											7,595	7,595	807		807	14410	7,595	FT	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, DOTTED LINE, 6"		
											40.61	3.62	850		850	10010	44.23	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)		
											5,989	5,989	850		850	10130	5,989	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)		
											3.55	3.55	850		850	20010	3.55	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)		
											435	435	850		850	20130	435	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (CONCRETE)		
TRAFFIC SIGNALS																					
LUMP													LUMP		809	70000	LS		MAINTAINING ITS DURING CONSTRUCTION		

GENERAL SUMMARY

DESIGN AGENCY

E.L. ROBINSON
 ENGINEERING
 1468 West 9th St, Suite 800
 Cleveland, Ohio 44115
 950 Goodale Blvd, Suite 180
 Grandview Heights, Ohio

DESIGNER
 ACF

REVIEWER
 MJC 01/05/24

PROJECT ID
 112798

SHEET TOTAL
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SHEET NUM.														PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
17	19	20	21	23	24	25A	38	38A	39	40	41	42	42A	01/IMS/05	02/IMS/13						
MAINTENANCE OF TRAFFIC																					
			1,325												1,325	614	11110	1,325	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
			84,810												84,810	614	11630	84,810	FT	INCREASED BARRIER DELINEATION	
							5	4	12	5	14	8	4		52	614	12380	52	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
110															LUMP	614	12420	LS		DETOUR SIGNING	
															110	614	12484	110	EACH	WORK ZONE INCREASED PENALTIES SIGN	
		13													13	614	12500	13	EACH	REPLACEMENT SIGN	
		250													250	614	12600	250	EACH	REPLACEMENT DRUM	
					3										3	614	12756	3	EACH	WORK ZONE CROSSOVER LIGHTING SYSTEM	
		5,065													5,065	614	12801	5,065	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	20
		368													368	614	13312	368	EACH	BARRIER REFLECTOR, TYPE 2, (ONE-WAY)	
		368													368	614	13350	368	EACH	OBJECT MARKER, ONE WAY	
		48													48	614	18601	48	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	20
						61.27	8.9			0.63	4.45				75.25	614	20056	75.25	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
												0.34			0.34	614	20110	0.34	MILE	WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT	
						19.25									19.25	614	20560	19.25	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT	
						33.34	9.84			8.02	26.69				77.89	614	22056	77.89	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	
								3.97	11.33			6.54	2.92		24.76	614	22110	24.76	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 642 PAINT	
						23.25									23.25	614	22360	23.25	MILE	WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT	
							3,547			7,723	40,665				51,935	614	23110	51,935	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
								3,584	35,792			4,285	2,280		45,941	614	23210	45,941	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 642 PAINT	
					6,289										6,289	614	23690	6,289	FT	WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
							444			1,086	1,274				2,804	614	24102	2,804	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	
								5,460	3,120			3,121	3,120		14,821	614	24202	14,821	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 642 PAINT	
						10,211									10,211	614	24612	10,211	FT	WORK ZONE DOTTED LINE, CLASS III, 6", 642 PAINT	
							3,709								LS	615	10000	LS		ROADS FOR MAINTAINING TRAFFIC	
			6,806				18,002		7,303						3,709	615	20000	3,709	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
					6,834										32,111	615	20001	32,111	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	23
										2,890	14,241				6,834	618	40101	6,834	FT	RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE), AS PER PLAN	24
															17,131	622	41011	17,131	FT	PORTABLE BARRIER, 50", AS PER PLAN	23
							22,882	3,445	6,727	2,404	10,404	3,976	3,234		53,072	622	41100	53,072	FT	PORTABLE BARRIER, UNANCHORED	
									576	288	864	288			2,016	622	41110	2,016	FT	PORTABLE BARRIER, ANCHORED	
54					3										54	808	18700	54	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
					30										3	829	00100	3	SNMT	WORK ZONE EGRESS WARNING SYSTEM	
															30	896	00012	30	SNMT	PORTABLE NON-INTRUSIVE TRAFFIC SENSOR, CLASS II	
					10										10	896	00021	10	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	24
															125,332	900	00100	125,332	EACH	RAILROAD FLAGGING SERVICES	
INCIDENTALS																					
															LUMP	108	10000	LS		CPM PROGRESS SCHEDULE	
															LUMP	614	11000	LS		MAINTAINING TRAFFIC	
															18	619	16020	18	MNTH	FIELD OFFICE, TYPE C	
															LUMP	623	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
															LUMP	624	10000	LS		MOBILIZATION	

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