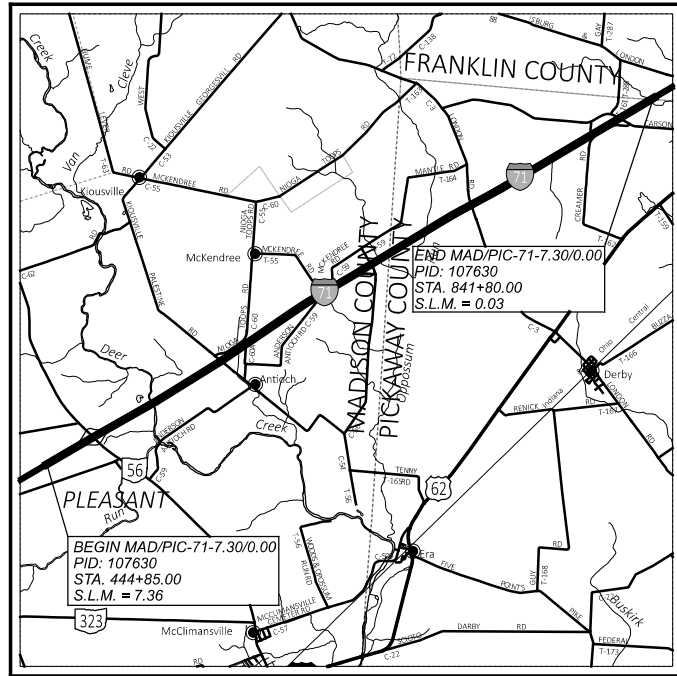


# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## MAD/PIC-71-7.30/0.00 PART 1

PLEASANT TOWNSHIP, DARBY TOWNSHIP  
MADISON COUNTY, PICKAWAY COUNTY, FRANKLIN COUNTY  
FOR PART 2, SEE MAD-71-4.56



**LOCATION MAP**

LATITUDE: 39°46'40" LONGITUDE: 83°15'48"

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

DESIGN DESIGNATION	I-71	SR-56	CR-54/ CR-3	TR-160	CR-56
CURRENT ADT (2024)	55,000	4,400	700	400	300
DESIGN YEAR ADT (2044)	84,500	4,800	800	400	300
DESIGN HOURLY VOLUME (2044)	8,400	528	96	48	36
DIRECTIONAL DISTRIBUTION	53%	10%	3%	3%	3%
TRUCKS (24 HOUR B&C)	20%	6%	1.8%	1.8%	1.8%
DESIGN SPEED	75 MPH	55 MPH	55 MPH	55 MPH	55 MPH
LEGAL SPEED	70 MPH	55 MPH	55 MPH	55 MPH	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION:					
I-71: RURAL INTERSTATE, SR-56: RURAL MAJOR COLLECTOR, CR-54, CR-3, TR-160, CR-56: RURAL LOCAL					
NHS PROJECT	----- YES				

**DESIGN EXCEPTIONS**

DESIGN FEATURE	APPROVAL DATES	SHEET NUMBERS
LANE WIDTH	7/12/21	7 & 197-200
STRUCTURE CAPACITY	7/13/21	809-898
STOPPING SIGHT DISTANCE	7/12/21	197-200

**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:



**INDEX OF SHEETS:**

TITLE SHEET	1	CROSS SECTIONS - S.R. - 56	494-497
SCHEMATIC PLAN	2-3	CROSS SECTIONS - C.R. - 54	498-501
TYPICAL SECTIONS	4-7	CROSS SECTIONS - C.R. - 56	502-505
GENERAL NOTES	8-10	CROSS SECTIONS - C.R. - 3	506-510
MAINTENANCE OF TRAFFIC	11-113	CROSS SECTIONS - T.R. - 160	511-515
GENERAL SUMMARY	114-123	SUPERELEVATION TABLES	516-518
ROADWAY SUBSUMMARY	124-130	INTERCHANGE DETAILS	519-527
DRAINAGE SUBSUMMARY	131-135	INTERSECTION DETAILS	528-531
PAVEMENT SUBSUMMARY	136-138	STORM SEWER PROFILES	532-551
EARTHWORK SUBSUMMARY	139-152	CULVERT DETAILS	552-562
PROJECT SITE PLAN	153-158	UNDERDRAIN DETAILS	563-599
PLAN & PROFILE - I.R. - 71	159-191	MISCELLANEOUS DETAILS	600
PLAN & PROFILE - S.R. - 56 RAMP A	192	TRAFFIC CONTROL	601-649
PLAN & PROFILE - S.R. - 56 RAMP B	193	STRUCTURES OVER 20' SPAN	
PLAN & PROFILE - S.R. - 56 RAMP C	194	MAD-71-08.740 L&R	650-704
PLAN & PROFILE - S.R. - 56 RAMP D	195	PIC-71-00.460 L&R	705-745
PLAN & PROFILE - S.R. - 56	196	MAD-71-08.044	746-782
PLAN & PROFILE - C.R. - 54	197	MAD-71-09.590	783-808
PLAN & PROFILE - C.R. - 56	198	MAD-71-11.450	809-836
PLAN & PROFILE - C.R. - 3	199	PIC-71-00.990	837-865
PLAN & PROFILE - T.R. - 160	200	PIC-71-02.780	866-898
CROSS SECTIONS - I.R. - 71	204-465	SOIL PROFILE	899-1003
CROSS SECTIONS - S.R. - 56 RAMP A	466-472	SHEETS NOT USED	34,55,80,201-203
CROSS SECTIONS - S.R. - 56 RAMP B	473-479		
CROSS SECTIONS - S.R. - 56 RAMP C	480-486		
CROSS SECTIONS - S.R. - 56 RAMP D	487-493		

STANDARD CONSTRUCTION DRAWINGS (PARTS 1 AND 2)								SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS		
BP-1.1	7/28/00	F-2.1	7/20/18	RM-4.4	7/19/19	MT-96.20	7/15/16	TC-12.31	4/15/22	800-2019 SEE PROPOSAL	WATERWAY
BP-2.1	1/21/22	F-3.1	7/19/13	RM-4.5	7/21/17	MT-98.10	1/17/20	TC-21.11	7/16/21	807	1/21/22
BP-2.3	7/18/14	F-3.3	7/19/13	RM-4.6	7/19/13	MT-98.11	1/17/20	TC-21.21	7/15/22	808	1/18/19
BP-3.1	1/21/22	F-3.4	7/19/13			MT-98.20	4/19/19	TC-41.10	7/19/13	821	4/20/12
BP-5.1	7/15/22			AS-1-15	7/17/15	MT-98.21	1/17/20	TC-41.20	10/18/13	829	1/20/17
BP-6.1	7/19/13	MGS-1.1	7/16/21	AS-2-15	1/18/19	MT-98.28	1/17/20	TC-41.30	10/18/13	832	7/15/22
BP-9.1	1/18/19	MGS-2.1	1/19/18	GSD-1-19	7/16/21	MT-98.30	7/16/21	TC-41.50	10/18/13	840	4/15/22
CB-3A	7/16/21	MGS-3.1	1/19/18	PCB-91	7/17/20	MT-99.20	4/19/19	TC-42.10	10/18/13	843	10/18/19
CB-4A, 5A, 8A	7/16/21	MGS-3.2	1/18/13	PSID-1-13	1/15/21	MT-99.30	1/17/20	TC-42.20	10/18/13	846	4/17/15
CB-5	7/16/21	MGS-4.1	1/20/17	SBR-1-20	7/17/20	MT-100.00	7/16/21	TC-51.11	1/15/16	850	4/15/22
CB-8	7/16/21	MGS-4.2	7/19/13	SICD-2-14	1/15/21	MT-101.60	1/17/20	TC-51.12	1/15/16	863	7/16/21
		MGS-4.3	1/18/13	VPF-1-90	7/20/18	MT-101.70	1/17/20	TC-52.10	10/18/13	867	4/15/22
		MGS-5.3	7/15/16			MT-101.75	1/17/20	TC-52.20	1/15/21	873	4/16/21
DM-1.1	7/17/20	MGS-6.1	1/19/18	HL-50.21	7/15/22	MT-101.90	7/17/20	TC-61.30	7/19/19	878	1/21/22
DM-1.2	7/16/21	MGS-6.2	7/19/19			MT-102.10	1/17/20	TC-64.10	7/16/21	908	10/20/17
DM-4.1	7/17/20			MT-95.30	7/19/19	MT-102.20	4/19/19	TC-65.10	1/17/14	921	1/20/17
DM-4.2	7/20/12	MH-3	7/16/21	MT-95.40	1/17/20	MT-102.30	10/16/15	TC-65.11	7/15/22	929	1/20/17
DM-4.3	1/15/16			MT-95.71	1/17/20	MT-103.10	1/21/22	TC-71.10	7/15/22		
DM-4.4	1/15/16	RM-1.1	1/15/21	MT-95.82	7/19/13	MT-104.10	10/16/15	TC-72.20	7/20/18		
		RM-4.2	4/17/20	MT-96.11	4/16/21	MT-105.10	1/17/20	TC-73.20	1/17/20		

**ENGINEER'S SEAL**  
BRIDGE  
SHEETS 783-808

G. T. Boyer

<p><b>ENGINEER'S SEAL</b> BRIDGE SHEETS 705-745</p> <p>James O'Leary</p>	<p><b>ENGINEER'S SEAL</b> BRIDGE SHEETS 746-782</p> <p>Ravinder Gupta</p>	<p><b>ENGINEER'S SEAL</b> BRIDGE SHEETS 809-884;888-898</p> <p>Dirk W. Williams</p>
<p><b>ENGINEER'S SEAL</b> ROADWAY SHEETS 1-600</p> <p>Matthew Cornett</p>	<p><b>ENGINEER'S SEAL</b> TRAFFIC CONTROL SHEETS 601-649</p> <p>Adam Lanier</p>	<p><b>ENGINEER'S SEAL</b> BRIDGE SHEETS 650-704;885-887</p> <p>Michael Vott</p>

TITLE SHEET

DESIGN AGENCY

**E.L. ROBINSON ENGINEERING**  
1466 West 9th St, Suite 800  
Cleveland, Ohio 44115  
950 Goodale Blvd, Suite 180  
Grandview Heights, Ohio 43121

DESIGNER  
MLL

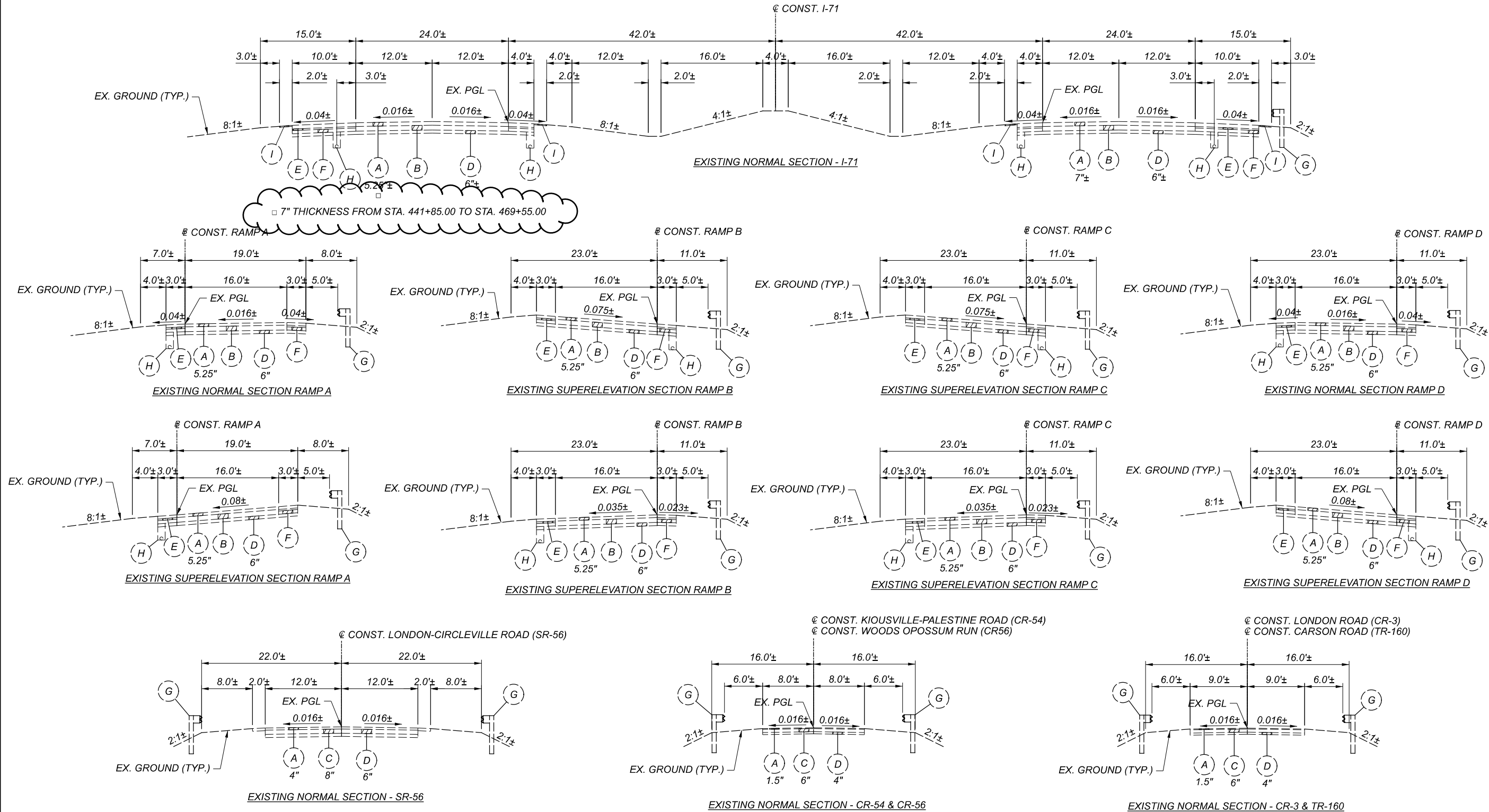
REVIEWER  
MJC 8/21/22

PROJECT ID  
107630

SHEET TOTAL  
P.1 1003

MAD/PIC-71-7.30/0.00

MODEL: Sheet PAPER: 17x11 (in.) DATE: 10/16/2022 TIME: 6:37:20 PM USER: mcomett P3\_OHDOT\_Worksets\107630\400-Engineering\Roadway\Sheets\107630\_G1001.dgn



**EXISTING LEGEND**

- (A) EX. ASPHALT CONCRETE (THICKNESS AS SHOWN)
- (B) EX. 9"± REINFORCED CONCRETE PAVEMENT
- (C) EX. AGGREGATE BASE (THICKNESS AS SHOWN)
- (D) EX. SUBBASE (THICKNESS AS SHOWN)
- (E) EX. 3"± WATERPROOFED AGGREGATE BASE COURSE
- (F) EX. 6"± POROUS BASE COURSE
- (G) EX. GUARDRAIL
- (H) EX. UNDERDRAIN
- (I) EX. 2.25"± COMPACTED AGGREGATE

**PROPOSED LEGEND**

- 1 ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447)
- 2 ITEM 407 - NON-TRACKING TACK COAT (APPLICATION RATE PER TABLE 407.06-1)
- 3 ITEM 442 - 1.75" ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)
- 4 ITEM 302 - 8.5" ASPHALT CONCRETE BASE, PG64-22 (449) (TWO LIFTS OF 4.5" AND 4"), AS PER PLAN
- 5 ITEM 304 - 6" AGGREGATE BASE
- 6 ITEM 206 - 12" CEMENT STABILIZED SUBGRADE
- 7 ITEM 204 - SUBGRADE COMPACTION
- 8 ITEM 204 - PROOF ROLLING
- 9 ITEM 605 - 6" BASE PIPE UNDERDRAINS
- 10 ITEM 605 - 6" SHALLOW PIPE UNDERDRAINS
- 11 ITEM 659 - SEEDING AND MULCHING
- 12 ITEM 452 - 13" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 WITH QC/QA, AS PER PLAN
- 13 ITEM 606 - CABLE BARRIER
- 14 ITEM 606 - GUARDRAIL, TYPE MGS
- 15 ITEM 622 - CONCRETE BARRIER, SINGLE SLOPE, TYPE D
- 16 ITEM 526 - REINFORCED CONCRETE APPROACH SLAB (T=15")
- 17 ITEM 442 - ANTI-SEGREGATION EQUIPMENT (TRAVEL LANES ONLY)
- 18 ITEM 609 - CURB, TYPE 4-C
- 19 ITEM 442 - 1.5" ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449)

DESIGN AGENCY

E.L. ROBINSON ENGINEERING  
 1466 West 9th St, Suite 800  
 Cleveland, Ohio 44115  
 950 Goodale Blvd, Suite 160  
 Grandview Heights, Ohio 44131

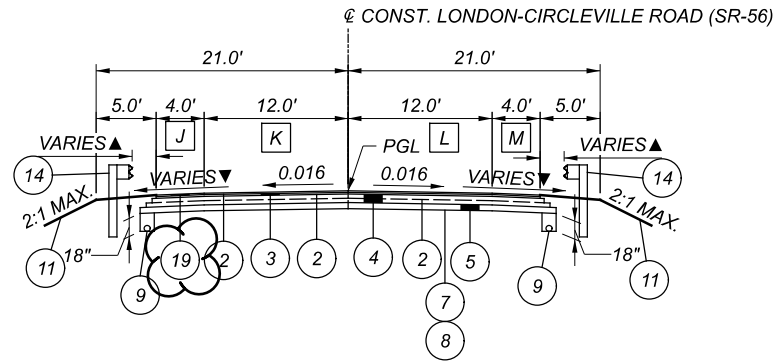
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 MLL

REVIEWER  
 MJC 04/26/22

PROJECT ID  
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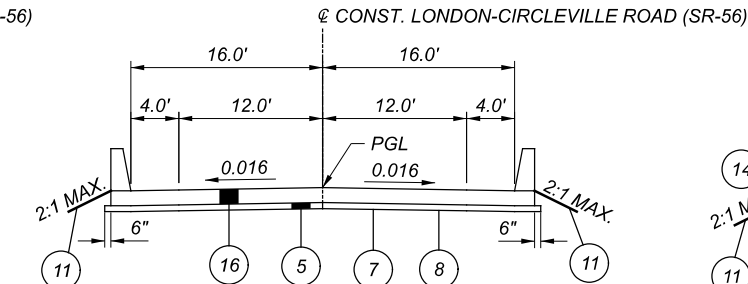
SHEET TOTAL  
 P.4 1003

▲ VARIES FROM 20.0' LT/RT TO 16.0' LT/RT



**PROPOSED NORMAL SECTION - SR-56**  
 STA. 226+51.50 TO STA. 227+50.55 = 99.05 FEET  
 STA. 230+91.25 TO STA. 231+90.50 = 99.25 FEET

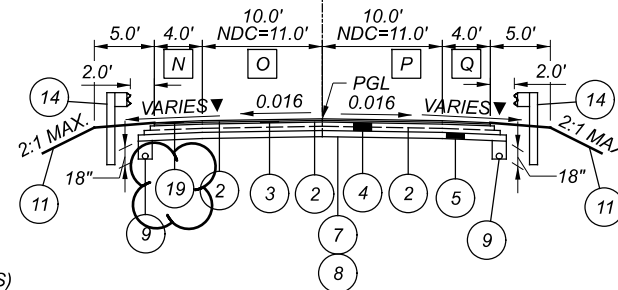
- J** VARIES FROM 3.2' TO 4.0' FROM STA. 226+51.50 TO STA. 227+36.91  
 VARIES FROM 4.0' TO 4.9' FROM STA. 231+13.61 TO STA. 231+90.50
- K** VARIES FROM 11.2' TO 12.0' FROM STA. 226+51.50 TO STA. 227+53.82  
 VARIES FROM 12.0' TO 11.5' FROM STA. 230+94.52 TO STA. 231+90.50
- L** VARIES FROM 11.0' TO 12.0' FROM STA. 226+51.50 TO STA. 227+47.27  
 VARIES FROM 12.0' TO 10.2' FROM STA. 230+87.97 TO STA. 231+90.50
- M** VARIES FROM 4.6' TO 4.0' FROM STA. 226+51.50 TO STA. 227+28.18  
 VARIES FROM 4.0' TO 4.9' FROM STA. 231+04.88 TO STA. 231+90.50



**PROPOSED APPROACH SLAB SECTION - SR-56**  
 STA. 227+50.55 TO STA. 227+75.55 = 25.00 FEET  
 STA. 227+75.55 TO STA. 230+66.25 = 290.70 FEET (BRIDGE LIMITS)  
 STA. 230+66.25 TO STA. 230+91.25 = 25.00 FEET

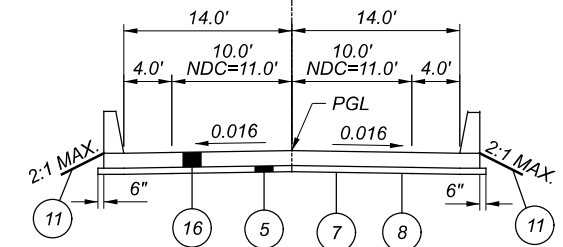
▼ TRANSITION SHOULDER CROSS SLOPE FROM EXISTING TO 0.016  
 AND FROM 0.016 TO EXISTING WITHIN FULL DEPTH PAVEMENT LIMITS.

② CONST. KIOUSVILLE-PALESTINE ROAD (CR-54)  
 ② CONST. WOODS OPOSSUM RUN (CR-56)  
 ② CONST. LONDON ROAD (CR-3)  
 ② CONST. CARSON ROAD (TR-160)



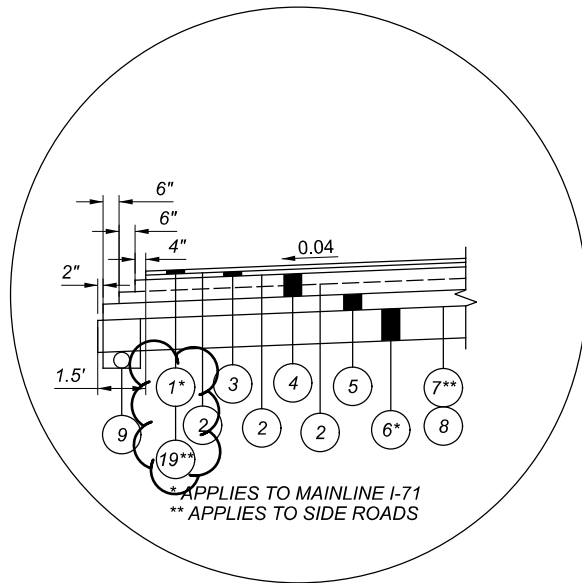
**PROPOSED NORMAL SECTION - CR-54, CR-56, CR-3, TR-160**  
 STA. 22+04.00 TO STA. 23+28.16 = 124.16 FEET (CR-54)  
 STA. 26+71.84 TO STA. 27+96.00 = 124.16 FEET (CR-54)  
 STA. 22+08.00 TO STA. 23+34.25 = 126.25 FEET (CR-56)  
 STA. 26+65.75 TO STA. 27+92.00 = 126.25 FEET (CR-56)  
 STA. 22+07.00 TO STA. 23+31.20 = 124.20 FEET (CR-3)  
 STA. 26+68.80 TO STA. 27+93.00 = 124.20 FEET (CR-3)  
 STA. 31+88.00 TO STA. 33+12.15 = 124.15 FEET (TR-160)  
 STA. 36+87.85 TO STA. 38+12.00 = 124.15 FEET (TR-160)

② CONST. KIOUSVILLE-PALESTINE ROAD (CR-54)  
 ② CONST. WOODS OPOSSUM RUN (CR-56)  
 ② CONST. LONDON ROAD (CR-3)  
 ② CONST. CARSON ROAD (TR-160)



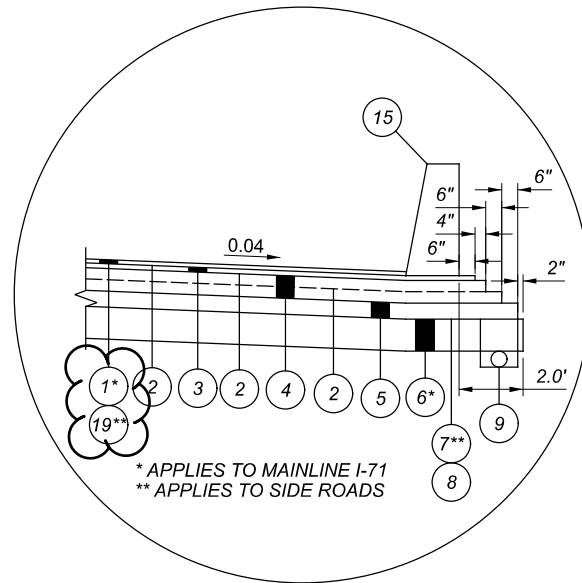
**PROPOSED APPROACH SLAB SECTION - CR-54, CR-56, CR-3, TR-160**  
 STA. 23+28.16 TO STA. 23+53.16 = 25.00 FEET (CR-54)  
 STA. 23+53.16 TO STA. 26+46.84 = 293.68 FEET (BRIDGE LIMITS)  
 STA. 26+46.84 TO STA. 26+71.84 = 25.00 FEET (CR-54)  
 STA. 23+34.25 TO STA. 23+59.25 = 25.00 FEET (CR-56)  
 STA. 23+59.25 TO STA. 26+40.75 = 281.50 FEET (BRIDGE LIMITS)  
 STA. 26+40.75 TO STA. 26+65.75 = 25.00 FEET (CR-56)  
 STA. 23+31.20 TO STA. 23+56.20 = 25.00 FEET (CR-3)  
 STA. 23+56.20 TO STA. 26+43.80 = 287.60 FEET (BRIDGE LIMITS)  
 STA. 26+43.80 TO STA. 26+68.80 = 25.00 FEET (CR-3)  
 STA. 33+12.15 TO STA. 33+37.15 = 25.00 FEET (TR-160)  
 STA. 33+37.15 TO STA. 36+62.85 = 325.70 FEET (BRIDGE LIMITS)  
 STA. 36+62.85 TO STA. 36+87.85 = 25.00 FEET (TR-160)

EDGE COURSE DETAIL #1



\* APPLIES TO MAINLINE I-71  
 \*\* APPLIES TO SIDE ROADS

EDGE COURSE DETAIL #2



\* APPLIES TO MAINLINE I-71  
 \*\* APPLIES TO SIDE ROADS

VARIES FROM 0.0 TO 4.0' FROM STA. 22+04.00 TO STA. 23+14.22 (CR-54)  
 VARIES FROM 4.0' TO 0.0' FROM STA. 26+93.91 TO STA. 27+96.00 (CR-54)

VARIES FROM 0.0 TO 4.0' FROM STA. 22+08.00 TO STA. 23+16.23 (CR-56)  
 VARIES FROM 4.0' TO 0.0' FROM STA. 26+83.75 TO STA. 27+92.00 (CR-56)

VARIES FROM 1.5' TO 4.0' FROM STA. 22+07.00 TO STA. 23+10.33 (CR-3)  
 VARIES FROM 4.0' TO 1.0' FROM STA. 26+83.88 TO STA. 27+93.00 (CR-3)

VARIES FROM 0.0' TO 4.0' FROM STA. 31+88.00 TO STA. 33+02.24 (TR-160)  
 VARIES FROM 4.0' TO 0.0' FROM STA. 37+13.93 TO STA. 38+12.00 (TR-160)

VARIES FROM 10.4 TO 10.0' FROM STA. 22+04.00 TO STA. 23+31.06 (CR-54)  
 VARIES FROM 10.0' TO 11.3' FROM STA. 26+74.75 TO STA. 27+96.00 (CR-54)

VARIES FROM 10.5 TO 10.0' FROM STA. 22+08.00 TO STA. 23+34.25 (CR-56)  
 VARIES FROM 10.0' TO 8.4' FROM STA. 26+65.75 TO STA. 27+92.00 (CR-56)

VARIES FROM 9.3' TO 10.0' FROM STA. 22+07.00 TO STA. 23+29.15 (CR-3)  
 VARIES FROM 10.0' TO 10.7' FROM STA. 26+66.74 TO STA. 27+93.00 (CR-3)

VARIES FROM 8.3' TO 10.0' FROM STA. 31+88.00 TO STA. 33+17.92 (TR-160)  
 VARIES FROM 10.0' TO 9.2' FROM STA. 36+93.62 TO STA. 38+12.00 (TR-160)

VARIES FROM 8.9 TO 10.0' FROM STA. 22+04.00 TO STA. 23+25.25 (CR-54)

VARIES FROM 7.3 TO 10.0' FROM STA. 22+08.00 TO STA. 23+34.25 (CR-56)  
 VARIES FROM 10.0' TO 8.5' FROM STA. 26+65.75 TO STA. 27+92.00 (CR-56)

VARIES FROM 9.7' TO 10.0' FROM STA. 22+07.00 TO STA. 23+33.26 (CR-3)  
 VARIES FROM 10.0' TO 8.8' FROM STA. 26+70.87 TO STA. 27+93.00 (CR-3)

VARIES FROM 11.3' TO 10.0' FROM STA. 31+88.00 TO STA. 33+06.37 (TR-160)  
 VARIES FROM 10.0' TO 9.5' FROM STA. 36+82.07 TO STA. 38+12.00 (TR-160)

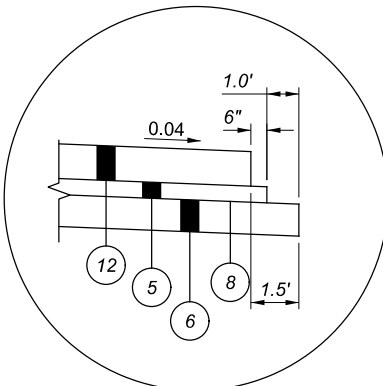
VARIES FROM 0.0 TO 4.0' FROM STA. 22+04.00 TO STA. 23+06.09 (CR-54)  
 VARIES FROM 4.0' TO 0.0' FROM STA. 26+85.78 TO STA. 27+96.00 (CR-54)

VARIES FROM 0.0 TO 4.0' FROM STA. 22+08.00 TO STA. 23+16.27 (CR-56)  
 VARIES FROM 4.0' TO 0.0' FROM STA. 26+83.75 TO STA. 27+92.00 (CR-56)

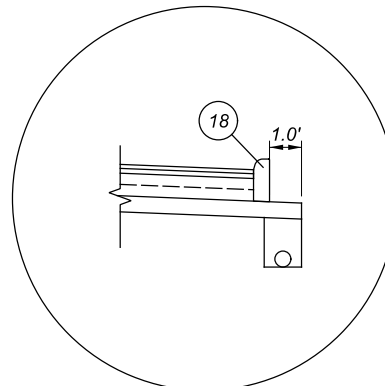
VARIES FROM 0.9' TO 4.0' FROM STA. 22+07.00 TO STA. 23+16.08 (CR-3)  
 VARIES FROM 4.0' TO 1.4' FROM STA. 26+89.72 TO STA. 27+93.00 (CR-3)

VARIES FROM 0.0' TO 4.0' FROM STA. 31+88.00 TO STA. 32+86.03 (TR-160)  
 VARIES FROM 4.0' TO 0.0' FROM STA. 36+79.76 TO STA. 38+12.00 (TR-160)

RAMP EDGE COURSE DETAIL



CURB DETAIL  
 CR-54, CR-56, CR-3, TR-160



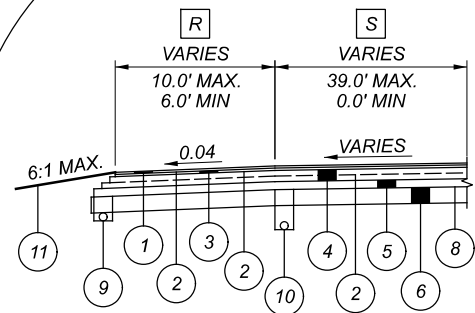
SEE PLAN & PROFILE SHEETS FOR LIMITS

VARIES FROM 10.0 TO 8.0' FROM STA. 456+05.25 TO STA. 457+05.25  
 8.0' FROM STA. 457+05.25 TO STA. 468+54.85  
 VARIES FROM 8.0 TO 6.0' FROM STA. 468+54.25 TO STA. 469+04.86  
 6.0' FROM STA. 469+04.86 TO STA. 471+55.08  
 8.0' FROM STA. 489+28.38 TO STA. 496+81.12  
 VARIES FROM 8.0 TO 10.0' FROM STA. 496+81.12 TO STA. 497+81.12

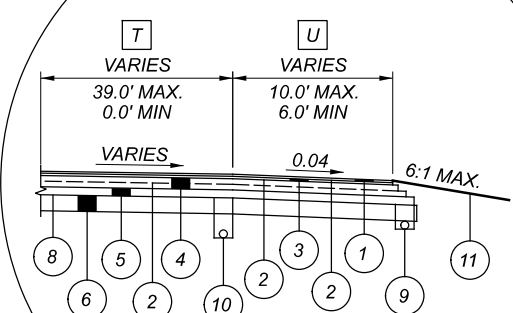
VARIES FROM 0.0' TO 12.0' FROM STA. 456+05.25 TO STA. 462+05.13  
 VARIES FROM 12.0' TO 39.0' FROM STA. 462+05.13 TO STA. 471+56.95  
 VARIES FROM 39.0' TO 12.0' FROM STA. 489+26.36 TO STA. 494+30.77  
 12.0' FROM STA. 494+30.77 TO STA. 496+81.12  
 VARIES FROM 12.0' TO 0.0' FROM STA. 496+81.12 TO STA. 497+81.12

VARIES FROM 0.0' TO 12.0' FROM STA. 465+04.73 TO STA. 466+07.73  
 12.0' FROM STA. 466+04.73 TO STA. 468+28.34  
 VARIES FROM 12.0' TO 39.0' FROM STA. 468+28.34 TO STA. 473+32.76  
 VARIES FROM 39.0' TO 12.0' FROM STA. 491+26.55 TO STA. 500+78.37  
 VARIES FROM 12.0' TO 0.0' FROM STA. 500+78.37 TO STA. 506+78.25

VARIES FROM 10.0' TO 8.0' FROM STA. 465+04.73 TO STA. 466+04.73  
 8.0' FROM STA. 466+04.73 TO STA. 473+30.73  
 6.0' FROM STA. 491+28.42 TO STA. 493+78.64  
 VARIES FROM 6.0' TO 8.0' FROM STA. 493+78.64 TO STA. 494+28.66  
 8.0' FROM STA. 494+28.66 TO STA. 505+78.25  
 VARIES FROM 8.0' TO 10.0' FROM STA. 505+78.25 TO STA. 506+78.25



SPEED CHANGE LANE DETAIL



SPEED CHANGE LANE DETAIL

DESIGN AGENCY



**E.L. ROBINSON**  
 ENGINEERING  
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DESIGNER

MLL

REVIEWER

MJC 04/26/22

PROJECT ID

107630

SHEET TOTAL

P.7 1003

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 TWO ELEVEN FOOT LANES OF TRAFFIC IN EACH DIRECTION ON I-71 SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT, THE COMPLETED PAVEMENT, ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC.
2. A MINIMUM OF ONE ELEVEN FOOT LANE OF TRAFFIC IN EACH DIRECTION ON SR-56 SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT & THE COMPLETED PAVEMENT EXCEPT ON THE STRUCTURE NO. MAD-56-2001. ONE TEN FOOT BIDIRECTIONAL LANE OF TRAFFIC SHALL BE MAINTAINED ON STRUCTURE NO. MAD-56-2001.
3. A MINIMUM OF ONE ELEVEN FOOT LANE OF TRAFFIC IN EACH DIRECTION ON ALL SIDE ROADS OVER I-71 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 SHEETS P.20-P.23. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$2500 PER DAY FOR EACH CALENDAR DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT. MULTIPLE ADJACENT CLOSURES WILL NOT BE PERMITTED.
4. NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR SPECIAL EVENTS:

TR-160 MAY BE CLOSED CONCURRENTLY WITH CR-9, CR-54 OR CR-56. CR-3 MAY NOT BE CLOSED WITH ANY OTHER CLOSURE EXCEPT CR-9. WHEN CR-56 IS CLOSED, CR-3 AND CR-54 SHALL BE OPEN. WHEN CR-54 IS CLOSED, CR-3 AND CR-56 SHALL BE OPEN.

Table with 2 columns: HOLIDAY OR SPECIAL EVENT, TIMES ALL LANES MUST BE OPEN TO TRAFFIC. Includes entries for NEW YEAR'S (OBSERVED), GENREAL/REGUALR ELECTION DAY (NOV), TOTAL SOLAR ECLIPSE (4/8/24), THANKSGIVING, MEMORIAL DAY, CHRISTMAS (OBSERVED), 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:

Table with 2 columns: DAY OF HOLIDAY OR SPECIAL EVENT, TIMES ALL LANES MUST BE OPEN TO TRAFFIC. Lists days from SUNDAY to SATURDAY with corresponding time ranges.

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

NEWLY CONSTRUCTED LAND ADDITIONS, ONCE COMPLETED AND INITIAL 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).

- 5. ALL EXISTING LANES, INCLUDING RAMPS, SHALL BE OPENED AND AVAILABLE TO TRAFFIC IN THE WINTER PHASE CONFIGURATION DESCRIBED ON SHEET 17 BETWEEN OCTOBER 1 AND APRIL 1. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$6,000 PER CALENDAR DAY.
6. NOTICE OF CLOSURE SIGNS (W20-H13) SHALL BE ERECTED BY THE CONTRACTOR PRIOR TO THE SCHEDULED ROAD OR RAMP CLOSURE IN ACCORDANCE WITH THE NOTICE OF CLOSURE TIME TABLE BELOW. [AT THE APPROVAL OF THE ENGINEER, PORTABLE CHANGEABLE MESSAGE SIGNS MAY BE USED IN LIEU OF THE STANDARD FLATSHEET SIGN FOR CLOSURE DURATIONS OF LESS THAN 1 WEEK.]

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

NOTIFICATION TIME FRAME TABLE. Table with 3 columns: ITEM, DURATION OF CLOSURE, SIGN DISPLAY TO PUBLIC. Rows for RAMP & ROAD CLOSURES with durations >=2 WEEKS, >12 HOURS & <2 WEEKS, and <=12 HOURS.

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.

7. 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.

8. 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.

COORDINATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL COORDINATE WORK WITH ODOT AND THE CONTRACTORS ON THE ADJACENT PROJECTS. FRA-71-0.00, PID 107201, WILL BE ADJACENT. COORDINATION SHALL BE MADE TO PREVENT CONFLICTING ADVANCE WARNING SIGNS. CONFLICTING DETOUR ROUTES, OVERLAPING/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.

PN 127 - LANE VALUE CONTRACT:

THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES AS DESIGNATED IN THE LANE VALUE CONTRACT TABLE FOR EACH UNIT OF TIME DESCRIBED CRITICAL LANE/RAMP IS RESTRICTED FROM FULL USE BY THE TRAVELING PUBLIC WITHIN THE RESTRICTED TIME PERIOD. THE LANE VALUE CONTRACT TABLE IS LOCATED IN THE PLAN GENERAL NOTES. THE DISINCENTIVES WILL BE ASSESSED FOR ALL RESTRICTIONS OF THE CRITICAL WORK.

CRITICAL WORK IS SHOWN IN THE LANE VALUE CONTRACT TABLE. CRITICAL WORK IS DEFINED AS HAVING THE DESIGNATED SECTIONS OPEN TO UNRESTRICTED TRAFFIC AS SHOWN IN THE TABLE, OR THE ENTIRE PROJECT IF NOT OTHERWISE LISTED.

UNRESTRICTED TRAFFIC IS DEFINED AS ALL TRAFFIC LANES BEING AVAILABLE FOR USE WITH SPECIFIED STRIPING AND SAFETY FEATURES IN PLACE.

SPEED MEASUREMENT MARKINGS

THE CONTRACTOR SHALL PLACE A SERIES OF SPEED MEASUREMENT MARKINGS ON THE ROADWAY TO ESTABLISH AN AIR SPEED CHECK ZONE TO ASSIST IN THE ENFORCEMENT OF SPEED REGULATIONS WITHIN THE WORK ZONE. EACH SPEED MEASUREMENT MARKING SHALL CONSIST OF ONE WHITE TRANSVERSE 24-INCH LINE MEASURED IN THE DIRECTION OF TRAVEL AND 4 FEET IN LENGTH. THE MARKINGS SHALL BE PLACED AT ONE-QUARTER MILE INTERVALS FOR A MINIMUM OF 1 MILE ALONG THE ROADWAY, AT LOCATIONS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. SPEED MEASUREMENT MARKINGS SHOULD AVOID BEING LOCATED IN THE VICINITY OF A TAPER, SHIFT, CROSSOVER, ENTRANCE RAMP OR EXIT RAMP.

ON MULTILANE HIGHWAYS WITH SHOULDER WIDTHS OF AT LEAST 6 FEET, CENTER THE SPEED MEASUREMENT MARKING ENTIRELY ON THE SHOULDER. IF THE SHOULDER WIDTH IS BETWEEN 2 FEET AND 6 FEET, CENTER THE MARKING ON THE EDGE LINE. IF THE SHOULDER WIDTH IS LESS THAN 2 FEET, CENTER THE MARKING IN LANE IMMEDIATELY ADJACENT TO THE EDGE LINE. TO ASSURE VISIBILITY OF THE MARKINGS AND REDUCE PARALLAX ERRORS ON MULTI-LANE HIGHWAYS, FOR EACH DIRECTION UTILIZING AN AIR SPEED CHECK ZONE, A SET OF TWO MARKINGS (LEFT AND RIGHT SIDE) SHALL BE USED AT EACH ONE-QUARTER MILE INTERVAL.

ON TWO-LANE HIGHWAYS, ONE MARKING SHOULD BE USED AT EACH ONE-QUARTER MILE INTERVAL AND INSTALLED ACROSS THE CENTER LINE.

THE MARKINGS SHALL BE LAID OUT BY A REGISTERED SURVEYOR. MEASURE EACH SET OF MARKINGS SEPARATELY TO ELIMINATE RADIAL DISTANCE ERRORS. A RECORD IS TO BE KEPT AND ONE ORIGINAL SIGNED AND SEALED DOCUMENT IS TO BE SENT TO THE DISTRICT TRAFFIC ENGINEER AND ONE COPY IS TO BE SENT TO THE DISTRICT CONSTRUCTION ENGINEER.

PAYMENT WILL BE FOR EACH 24-INCH-WIDE BY 4 FEET LONG MARKING AND SHALL INCLUDE THE PAVEMENT MARKING MATERIAL USED AND THE SURVEYING WORK. THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

ITEM 614 SPEED MEASUREMENT MARKING, 642 TRAFFIC PAINT 45 EACH

AS DIRECTED BY THE ENGINEER, PLACE AREA PATROLLED BY AIRCRAFT (D12-H15A) BLACK-ON-FLUORESCENT ORANGE SIGNS IN THE ADVANCED WORK ZONE AREA BETWEEN THE FIRST AND SECOND SIGNS IN THE SERIES AND REPEATED AT EACH ENTRANCE RAMP WITHIN THE AIR SPEED CHECK ZONE. PAYMENT FOR AIR SPEED CHECK ZONE RELATED SIGNS IS INCLUDED IN THE LUMP SUM BID PRICE FOR MAINTAINING TRAFFIC.

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SHEET TOTAL

P.11 1003

**SEQUENCE OF CONSTRUCTION**

PRE-PHASE 1:

PRIOR TO THE START OF PHASE 1, THE SOUTHBOUND OUTSIDE SHOULDER MUST BE RECONSTRUCTED IN ORDER TO CARRY SHIFTED PHASE 1 TRAFFIC. ALL TEMPORARY PAVEMENT REQUIRED FOR SOUTHBOUND TRAFFIC DURING PHASE 1 AND PHASE 2A SHALL BE CONSTRUCTED IN CONJUNCTION WITH THE SHOULDER RECONSTRUCTION.

ANY PRE-PHASE 1 WORK THAT IMPACTS TRAVEL LANES SHALL BE COMPLETED BY UTILIZING NIGHTTIME LANE CLOSURES PER ODOT SCD MT-95.30. THE LANE CLOSURES MAY ONLY BE IMPLEMENTED DURING HOURS ALLOWED AS LISTED IN THIS PLAN.

PHASE 1:

CLOSE THE INSIDE LANE OF THE THREE LANE SECTION OF I-71 SOUTHBOUND. LANE CLOSURE CONFIGURATION SHALL REMAIN FOR THE DURATION OF PHASE 1 AND PHASES 2A AND 2B. SHIFT SOUTHBOUND LANES ONTO OUTSIDE SHOULDER AND OUTSIDE LANE.

I-71 NORTHBOUND SHALL REMAIN IN EXISTING CONFIGURATION.

CONSTRUCT PROPOSED AREA OF SOUTHBOUND I-71 AS SHOWN IN THE PLANS.

WINTER 2023:

TRAFFIC SHALL BE SHIFTED INTO PHASE 2A CONFIGURATION BY NOVEMBER 1, 2023 WHICH SHALL CONSTITUTE AN INTERIM COMPLETION DATE. TO PROVIDE ADDITIONAL SPACE FOR MOTORIST DURING THE WINTER, THE PHASE 2A PORTABLE BARRIER SHALL NOT BE SET IN THE FOLLOWING LOCATIONS UNTIL APRIL 1, 2024 UNLESS APPROVED BY THE ENGINEER:

- STA. 444+85 TO STA. 470+00
- STA. 587+00 TO STA. 604+00
- STA. 630+00 TO STA. 644+00
- STA. 729+00 TO STA. 742+20

IN LEUI OF PORTABLE BARRIER IN THESE LOCATIONS, DRUMS SHALL BE PLACED ALONG THE EDGE OF TRAVEL WAY. TEMPORARY IMPACT ATTENUATORS SHALL BE USED TO PROTECT THE ENDS OF THE PORTABLE BARRIER. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY AS PAYMENT FOR THIS WORK:

ITEM 614 - WORK ZONE IMPACT ATTENUATOR, 24" WIDE - 3\_EA

WORK ON PHASE 2 MAY CONTINUE IN AREAS ADEQUATELY PROTECTED BY PORTABLE BARRIER.

EMERGENCY PULL-OFF SHOWN IN THE PLANS SHALL REMAIN OPEN OVER THE WINTER. ADDITIONALLY, A TEMPORARY PULL-OFF SHALL BE CREATED USING EXISTING PAVEMENT ON THE WEST SIDE OF THE SOUTHBOUND LANES PER THE DETAILS SHOWN ON SHEET P.26. AT THE FOLLOWING LOCATIONS:

- STA. 589+00 TO STA. 602+20
- STA. 729+00 TO STA. 742+20 -

NOTE: A 10' WIDE STRIP OF EXISTING PAVEMENT ADJACENT TO THE PHASE LINE SHALL BE MILLED 2" +/- FROM STA. 729+00 TO STA. 732+00 TO MAINTAIN APPROXIMATELY EQUAL EXISTING AND PROPOSED ELEVATIONS.

THE LOCATION OF THE TEMPORARY PULL-OFF MAY BE ADJUSTED AT THE DIRECTION OF THE ENGINEER. THE COSTS FOR ALL SIGNING, MATERIALS, AND EQUIPMENT NECESSARY TO PLACE THE TEMPORARY PULL-OFF SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

PHASE 2A:

SHIFT I-71 SOUTHBOUND LANES ONTO COMPLETED INSIDE LANE AND SHOULDER OF SOUTHBOUND I-71 CONSTRUCTED DURING PHASE 1.

CLOSE INSIDE PORTION OF EXIT RAMP B. SHIFT TRAFFIC ONTO OUTSIDE PORTION OF RAMP B AND TEMPORARY RAMP PAVEMNT.

CLOSE INSIDE PORTION OF ENTRANCE RAMP A. SHIFT TRAFFIC ONTO OUTSIDE PORTION OF RAMP A.

I-71 NORTHBOUND SHALL REMAIN IN EXISTING CONFIGURATION.

CONSTRUCT PROPOSED AREA OF I-71 SOUTHBOUND, RAMP A AND RAMP B AS SHOWN IN THE PLANS.

CONSTRUCT TEMPORARY PAVEMENT FOR RAMP A WIDENING.

PHASE 2B:

I-71 SOUTHBOUND LANES SHALL REMAIN IN PHASE 2A CONFIGURATION.

CLOSE OUTSIDE PORTION OF EXIT RAMP B. SHIFT TRAFFIC ONTO INSIDE PORTION OF RAMP B CONSTRUCTED IN PREVIOUS PHASE.

CLOSE OUTSIDE PORTION OF ENTRANCE RAMP A. SHIFT TRAFFIC ONTO INSIDE PORTION OF RAMP A CONSTRUCTED IN PREVIOUS PHASE AND TEMPORARY PAVEMENT.

I-71 NORTHBOUND SHALL REMAIN IN EXISTING CONFIGURATION.

CONSTRUCT REMAINING PROPOSED AREA OF I-71 SOUTHBOUND, RAMP A AND RAMP B AS SHOWN IN THE PLANS.

WINTER 2024:

THE PROJECT SHALL ENTER A WINTERIZATION PHASE BY OCTOBER 1, 2024 WHICH SHALL CONSTITUTE AN INTERIM COMPLETION DATE. NORTHBOUND TRAFFIC SHALL REMAIN IN EXISTING CONFIGURATION. SOUTHBOUND TRAFFIC SHALL BE RECONFIGURED TO THE PROPOSED THREE LANE CONFIGURATION. NORTHBOUND RAMPS SHALL REMAIN IN EXISTING CONFIGURATION. SOUTHBOUND RAMPS SHALL BE OPENED IN FINAL CONFIGURATION.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY IN ORDER TO COMPLETE THIS WORK:

- ITEM 614 - WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN - 734 EACH
- ITEM 648 - EDGE LINE, WHITE, 6" - 8.33 MILES
- ITEM 648 - EDGE LINE, YELLOW, 6" - 8.33 MILES
- ITEM 648 - LANE LINE, 6" - 16.66 MILES
- ITEM 648 - CHANNELINZING LINE, 12" - 1570 FEET
- ITEM 648 - DOTTED LINE, 6" - 1622 FEET

PRE-PHASE 3:

PRIOR TO THE START OF PHASE 3, THE NORTHBOUND MEDIAN CROSSOVERS AND THE NORTHBOUND TEMPORARY RAMP ACCESS FOR RAMPS C & D MUST BE COMPLETE ALONG WITH ALL SHOULDER RECONSTRUCTION AND TEMPORARY PAVEMENT ON RAMPS C & D IF NOT PREVIOUSLY COMPLETED.

ANY PRE-PHASE 3 WORK THAT IMPACTS TRAVEL LANES SHALL BE COMPLETED BY UTILIZING NIGHTTIME LANE CLOSURES PER ODOT SCD MT-95.30. THE LANE CLOSURES MAY ONLY BE IMPLEMENTED DURING HOURS ALLOWED AS LISTED IN THIS PLAN.

PHASE 3A:

CLOSE INSIDE LANE OF I-71 SOUTHBOUND. SHIFT REMAINING TWO SOUTHBOUND LANES ONTO OUTSIDE SHOULDER AND OUTSIDE LANE.

I-71 NORTHBOUND LANES SHALL REMAIN ON CONSTRUCTED I-71 SOUTHBOUND INSIDE SHOULDER AND LANES MATCHING PART 2.

USE SOUTHERN PORTION OF TEMPORARY RAMP C ACCESS TO MAINTAIN RAMP TRAFFIC. CLOSE INSIDE PORTION OF RAMP C. SHIFT TRAFFIC ONTO OUTSIDE PORTION OF RAMP C.

CLOSE INSIDE PORTION OF RAMP D. SHIFT TRAFFIC ONTO OUTSIDE PORTION OF RAMP D. USE NORTHERN PORTION OF TEMPORARY ENTRANCE RAMP D ACCESS TO MAINTAIN RAMP TRAFFIC.

CONSTRUCT PROPOSED AREAS OF I-71 NORTHBOUND, INSIDE AREA OF RAMP A, AND INSIDE AREA OF RAMP D.

CONSTRUCT TEMPORARY PAVEMENT FOR RAMP D WIDENING.

PHASE 3B:

I-71 NORTHBOUND AND SOUTHBOUND LANES, SHIFTS AND CROSSOVERS SHALL REMAIN IN PHASE 3A CONFIGURATION.

USE NORTHERN PORTION OF TEMPORARY EXIT RAMP C ACCESS TO MAINTAIN RAMP TRAFFIC. CLOSE OUTSIDE PORTION OF RAMP C. SHIFT TRAFFIC ONTO INSIDE PORTION OF RAMP C.

CLOSE OUTSIDE PORTION OF RAMP D. SHIFT TRAFFIC ONTO INSIDE PORTION OF RAMP D AND TEMPORARY PAVEMENT. USE SOUTHERN PORTION OF TEMPORARY ENTRANCE RAMP D ACCESS TO MAINTAIN RAMP TRAFFIC.

COMPLETE CONSTRUCTION OF PROPOSED AREAS OF I-71 NORTHBOUND, OUTSIDE AREA OF RAMP A, AND OUTSIDE AREA OF RAMP D.

WINTER 2025:

THE PROJECT SHALL ENTER A WINTERIZATION PHASE BY OCTOBER 1, 2025 WHICH SHALL CONSTITUTE AN INTERIM COMPLETION DATE. ALL TRAFFIC SHALL BE OPENED IN FINAL CONFIGURATION AND MAINTAINED ON INTERMEDIATE COURSE. PAVEMENT MARKINGS SHALL BE PLACED IN THEIR FINAL LOCATIONS PER THE TRAFFIC CONTROL PLAN.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY IN ORDER TO COMPLETE THIS WORK:

- ITEM 614 - WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN - 1434 EACH
- ITEM 648 - EDGE LINE, WHITE, 6" - 16.27 MILES
- ITEM 648 - EDGE LINE, YELLOW, 6" - 16.27 MILES
- ITEM 648 - LANE LINE, 6" - 32.54 MILES
- ITEM 648 - CHANNELINZING LINE, 12" - 3140 FEET
- ITEM 648 - DOTTED LINE, 6" - 3216 FEET

SHOULD WORK DELAY AND FULL COMPLETION OF PHASE 3 WORK FOR PART 1 AND PART 2 NOT BE ACHIEVABLE, THE CONTRACTOR MAY IMPLEMENT A CROSSOVER NEAR THE SOUTHERN LIMIT OF PART 1 AT THE APPROVAL OF THE ENGINEER. THE CROSSOVER WILL RETURN NORTHBOUND TRAFFIC FROM PHASE 3 TO THE COMPLETED NORTHBOUND PAVEMENT. ALL COSTS TO CONSTRUCT THE TEMPORARY CROSSOVER INCLUDING ADDITIONAL STRIPING, SIGNING AND TEMPORARY PAVEMENT SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 - MAINTAINING TRAFFIC.

PHASE 4:

AT THE CONCLUSION OF THE 2025 WINTER PHASE, COMPLETE ANY REMAINING FULL DEPTH RECONSTRUCTION WORK. THE REMAINING EXISTING I-71 PAVEMENT THAT IS TO BE RESURFACED (OUTSIDE THE FULL DEPTH LIMITS) SHALL BE MILLED TO THE DEPTH SPECIFIED IN THE PLANS. THE FINAL WEARING COURSE OF BOTH NEWLY CONSTRUCTED AND EXISTING MILLED PAVEMENTS SHALL THEN BE INSTALLED. ONCE COMPLETED, FINAL PAVEMENT MARKINGS SHALL BE APPLIED PER THE TRAFFIC CONTROL PLANS. THIS WORK SHALL BE COMPLETED BY UTILIZING ODOT SCD MT-97.11. IN ADDITION TO THIS WORK, THE MEDIAN CABLE BARRIER SHALL BE INSTALLED PER THE ROADWAY PLANS AND TEMPORARY PAVEMENT SHALL BE REMOVED BY UTILIZING ODOT SCD MT-95.45 EXCEPT DRUMS MAY BE USED IN THE PLACE OF PCB AS LONG AS DROP-OFF REQUIREMENTS ARE MET (PER ODOT SCD MT-101.90).

OVERHEAD STRUCTURE CONSTRUCTION:

OVERHEAD BRIDGE CONSTRUCTION SHALL OCCUR AT ANY TIME DURING THE PROJECT. SIDE ROADS SHALL BE CLOSED AND DETOURED AS SHOWN IN THE PLANS. THE CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC NEEDS ALONG I-71 WITH THE RESPECTIVE PHASE OF I-71 MAINTENANCE OF TRAFFIC.

SR-56 SHALL REMAIN OPEN AT ALL TIMES UTILIZING THE EXISTING LANE CONFIGURATION OR SIGNALIZED BIDIRECTIONAL TRAFFIC AS SHOWN IN THE PLANS. CONSTRUCTION OF THE SR-56 STRUCTURE MAY OCCUR AT ANY TIME DURING THE PROJECT. THE CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC NEEDS ALONG SR-56 WITH NECESSARY RAMP WORK AT THE INTERCHANGE. SHOULD THE RAMPS BE COMPLETE PRIOR TO THE STRUCTURE WORK, THE CONTRACTOR SHALL ADJUST THE TEMPORARY SIGNAL LAYOUT TO MATCH THE PROPOSED RAMPS.

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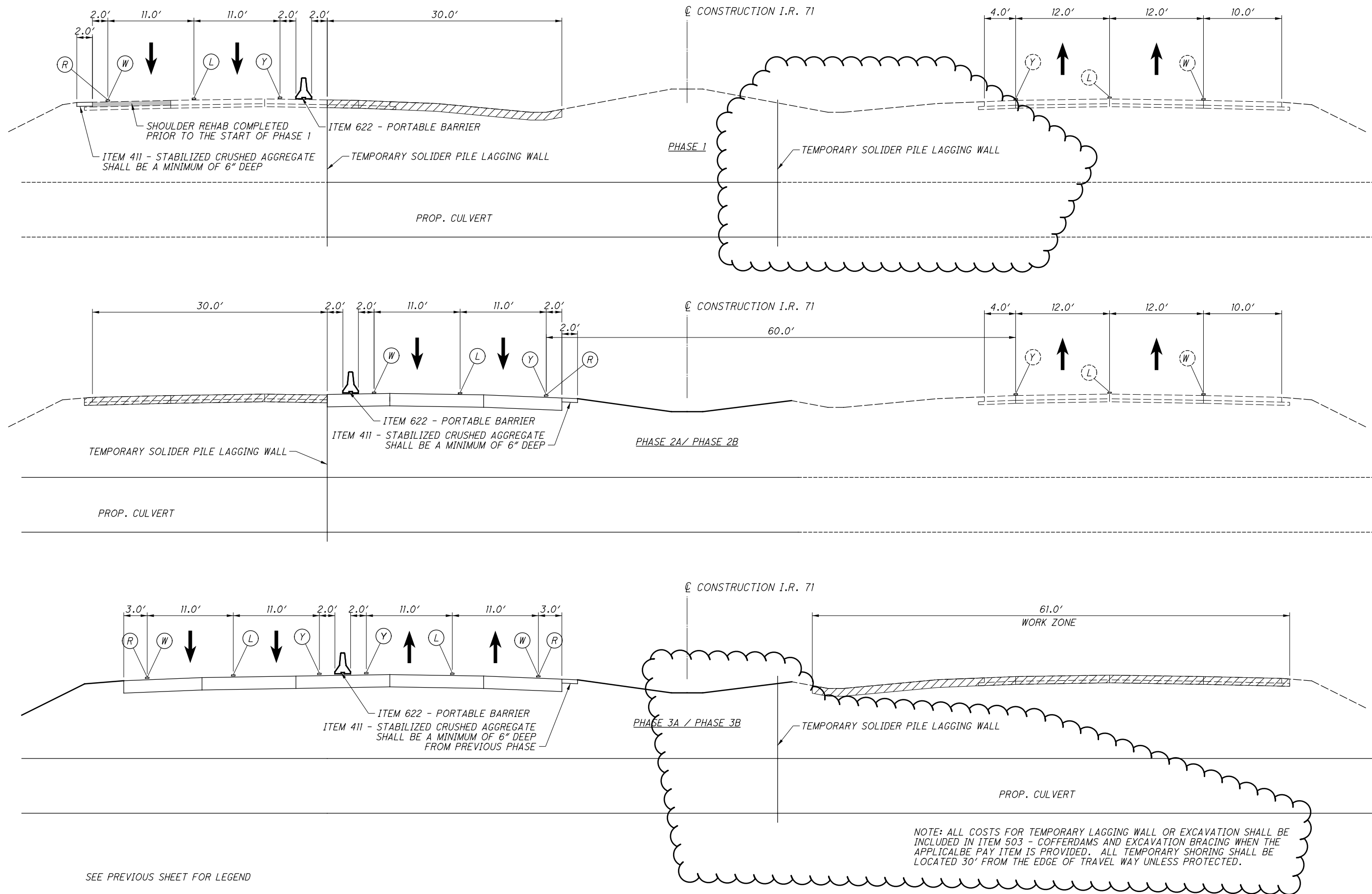
MJC 04/26/22

PROJECT ID

107630

SHEET TOTAL

P.17 1003



SEE PREVIOUS SHEET FOR LEGEND

NOTE: ALL COSTS FOR TEMPORARY LAGGING WALL OR EXCAVATION SHALL BE INCLUDED IN ITEM 503 - COFFERDAMS AND EXCAVATION BRACING WHEN THE APPLICABLE PAY ITEM IS PROVIDED. ALL TEMPORARY SHORING SHALL BE LOCATED 30' FROM THE EDGE OF TRAVEL WAY UNLESS PROTECTED.

MAINTENANCE OF TRAFFIC TYPICAL CULVERT SECTIONS

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 PROJECT ID  
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 SHEET TOTAL  
 P.19B 1003

SHEET NO.	STATION TO STATION				614	614	614	614	614	614	614	618	622	622	622	615	615	411	606	606	202	614	614	614
					WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	SPECIAL - WORK ZONE GUARDRAIL	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT (WHITE)	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT (YELLOW)	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	PORTABLE BARRIER, 50", AS PER PLAN	PORTABLE BARRIER, ANCHORED	PORTABLE BARRIER, "Y" CONNECTOR		PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN (SHOULDER RECONSTRUCTION)	STABILIZED CRUSHED AGGREGATE	ANCHOR ASSEMBLY, MGS TYPE E	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	CABLE BARRIER REMOVED, AS PER PLAN	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT	WORK ZONE CENTER LINE, CLASS I, 642 PAINT (WHITE)
					EACH	FT	FT	FT	FT	FT	FT	FT	FT	FT	SY	SY	CY	EACH	EACH	FT	MILE	MILE	FT	
<b>IR 71</b>																								
<b>PHASE 1</b>																								
35	444+85.00	TO	449+00.00			415	415	415			415	415				462	16							
36	449+00.00	TO	474+00.00			2445	2500	2500		818	2445	2500				3403	91							
37	474+00.00	TO	486+50.00			1250	1250	1250			1250	1250			117	1672	46							
38	486+50.00	TO	511+50.00			2432	2500	2500		650	2432	2500			705	2954	91							
39	511+50.00	TO	536+50.00			2500	2500	2500			2500	2210	290			2465	84							
40	536+50.00	TO	561+50.00			2500	2500	2500			2500	2500				2676	93							
41	561+50.00	TO	586+50.00			2500	2500	2500			2500	2500				2698	93							
42	586+50.00	TO	611+50.00			2500	2500	2500			2500	2500				2764	93							
43	611+50.00	TO	636+50.00			2500	2500	2500			2500	2500				2613	93							
44	636+50.00	TO	661+50.00			2500	2500	2500			2500	2500			2912	2590	93							
45	661+50.00	TO	686+50.00			2500	2500	2500			2500	2500				2608	93							
46	686+50.00	TO	711+50.00			2500	2500	2500			2500	2318	182			2477	89							
47	711+50.00	TO	736+50.00			2500	2500	2500			2500	2500				2658	93							
48	736+50.00	TO	761+50.00			2500	2500	2500			2500	2500				2615	93							
49	761+50.00	TO	786+50.00			2500	2500	2500			2500	2500				2646	93							
50	786+50.00	TO	811+50.00			2500	2500	2500			2500	2500				2695	93							
51	811+50.00	TO	836+50.00			2500	2500	2500			2500	2500				2690	93							
52	836+50.00	TO	861+50.00	1		2500	2500	2420	80		2500	960				435	134							
53	861+50.00	TO	886+50.00			760	2330		1060	840	760					0	28							
<b>PHASE 2A</b>																								
56	444+85.00	TO	449+00.00			415	415	415		415							16							
57	449+00.00	TO	474+00.00	1		5000	5000	2500	20	5000	5000	262					123							
58	474+00.00	TO	486+50.00			1870	1826	1250			1855	1570	230				46							
<b>SR-56</b>																								
58	RAMP A			2									250								0.3	0.13		
58	RAMP B			2									250								0.3	0.13		
59	486+50.00	TO	511+50.00	1		3800	3800	2500		420	3800	3080	1				154							
60	511+50.00	TO	536+50.00			2500	2500	2500			2500	2500					116							
61	536+50.00	TO	561+50.00			2500	2500	2500			2500	2500					93							
62	561+50.00	TO	586+50.00			2500	2500	2500			2500	2500					93							
63	586+50.00	TO	611+50.00			2500	2500	2500			2500	2500					93							
64	611+50.00	TO	636+50.00			2500	2500	2500			2500	2500					93							
65	636+50.00	TO	661+50.00			2500	2500	2500			2500	2500			1677		93							
66	661+50.00	TO	686+50.00			2500	2500	2500			2500	2500					93							
67	686+50.00	TO	711+50.00			2500	2500	2500			2500	2500					93							
68	711+50.00	TO	736+50.00			2500	2500	2500			2500	2500					93							
69	736+50.00	TO	761+50.00			2500	2500	2500			2500	2500					93							
70	761+50.00	TO	786+50.00			2500	2500	2500			2500	2500					93							
71	786+50.00	TO	811+50.00			2500	2500	2500			2500	2500					93							
72	811+50.00	TO	836+50.00			2500	2500	2500			2500	2500					93							
73	836+50.00	TO	861+50.00	1		2500	2500	906	1594		2500	1015					189							
74	861+50.00	TO	886+50.00			760	760		760		760						28							
<b>PHASE 2B</b>																								
76	444+85.00	TO	449+00.00			415					415	415												
77	449+00.00	TO	474+00.00			2500	655			1365	2500	2500												
78	474+00.00	TO	486+50.00	1		1275	1275				1275	295												
79	486+50.00	TO	499+00.00			1720	632			420	1720	1750												
<b>SUBTOTAL</b>					9	0	95057	93358	81656	3494	4948	94627	86823	972	1	5903	43121	3390	0	0	0	0.60	0.26	0
<b>TOTALS CARRIED TO SHEET 33</b>					9	0.0	95057	93358	81656	3494	4948	94627	86823	972	1	5903	43121	3390	0	0	0	0.60	0.26	0

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY



**E.L. ROBINSON**  
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1486 West 9th St, Suite 800  
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950 Goodale Blvd, Suite 150  
Grandview Heights, Ohio 44131

DESIGNER  
**SMB**

REVIEWER  
MJC 04/26/22

PROJECT ID  
107630

SHEET TOTAL  
P.32 | 1003

SHEET NO.	STATION TO STATION			614	614	614	614	614	614	614	618	622	622	622	615	615	411	606	606	202	614	614	614
				WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	SPECIAL - WORK ZONE GUARDRAIL	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT (WHITE)	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT (YELLOW)	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	PORTABLE BARRIER, 50", AS PER PLAN	PORTABLE BARRIER, ANCHORED	PORTABLE BARRIER, "Y" CONNECTOR		PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN (SHOULDER RECONSTRUCTION)	STABILIZED CRUSHED AGGREGATE	ANCHOR ASSEMBLY, MGS TYPE E	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1	CABLE BARRIER REMOVED, AS PER PLAN	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT	WORK ZONE CENTER LINE, CLASS I, 642 PAINT (WHITE)
PHASE 3A				EACH	FT	FT	FT	FT	FT	FT	FT	FT	FT	EACH	SY	SY	CY	EACH	EACH	FT	MILE	MILE	FT
81	444+85.00	TO	449+00.00			830	830	830			415	415											
82	449+00.00	TO	474+00.00	1		7032	7032	5000		1470	7032	3455			2341	743							
83	474+00.00	TO	486+50.00		62.5	3920	4035	2500			3860	1640				150							
SR-56 RAMP C				2																		0.2	0.09
SR-56 RAMP D				2																		0.2	0.09
84	486+50.00	TO	511+50.00	1		6698	6732	5000		1884	6698	3200			2857	319							
85	511+50.00	TO	536+50.00		75	5000	5000	5000		591	5000	2500			278			1	1				
86	536+50.00	TO	561+50.00			5000	5000	5000			5000	2500											
87	561+50.00	TO	586+50.00		50	5000	5000	5000			5000	2500											
88	586+50.00	TO	611+50.00			5000	5000	5000			5000	2500											
89	611+50.00	TO	636+50.00			5000	5000	5000			5000	2500											
90	636+50.00	TO	661+50.00		50	5000	5000	5000			5000	2500			2775								
91	661+50.00	TO	686+50.00			5000	5000	5000			5000	2500											
92	686+50.00	TO	711+50.00		75	5000	5000	5000			5000	2500						1	1				
93	711+50.00	TO	736+50.00		50	5000	5000	5000			5000	2500											
94	736+50.00	TO	761+50.00			5000	5000	5000			5000	2500											
95	761+50.00	TO	786+50.00			5000	5000	5000			5000	2500											
96	786+50.00	TO	811+50.00			5000	5000	5000			5000	2500											
97	811+50.00	TO	836+50.00		50	5000	5000	5000			5000	2500											
98	836+50.00	TO	861+50.00	1		5000	4967	3191	1809		5000	2043			1154				500				
99	861+50.00	TO	886+50.00			945	2500		1270	792	945												
100	886+50.00	TO	907+00.00				48			48													
PHASE 3B																							
101	449+00.00	TO	474+00.00	1		1387	1104			283	1387	708											
102	474+00.00	TO	486+50.00			907	907				907	326											
103	486+50.00	TO	511+50.00	1		1216	1038				1216	608											
SR 56 PHASE 1																							
105	222+00.00	TO	227+00.00	1								109										0.08	14
106	227+00.00	TO	232+00.00									160	340									0.19	
107	232+00.00	TO	237+00.00	1								69										0.07	19
SR 56 PHASE 2																							
110	222+00.00	TO	227+00.00	1								107										0.06	
111	227+00.00	TO	232+00.00									160	340									0.19	
112	232+00.00	TO	237+00.00	1								59										0.04	
SUBTOTAL				13	412.5	92935	94193	81521	3079	5068	92460	45559	1020	0	9405	1212	0	2	2	500	1.03	0.18	40
TOTALS CARRIED FROM PREVIOUS SHEET				9	0.0	95057	188386	81656	3494	4948	94627	86823	972	1	5903	43121	3390	0	0	0	0.60	0.26	0
TOTALS CARRIED TO GENERAL SUMMARY				22	412.5	89.13 MI	30.91 MI	6573	10016	35.44 MI	132382	1992	1	15308	44333	3390	2	2	500	1.63	0.44	40	

MAINTENANCE OF TRAFFIC SUBSUMMARY

DESIGN AGENCY  
  
**E.L. ROBINSON**  
 ENGINEERING  
 1466 West 9th St, Suite 800  
 Cleveland, Ohio 44115  
 950 Goodale Blvd, Suite 160  
 Grandview Heights, Ohio 44131

DESIGNER  
**SMB**

REVIEWER  
**MJC 04/26/22**

PROJECT ID  
**107630**

SHEET TOTAL  
**P.33 | 1003**



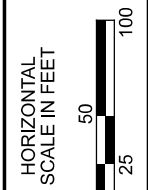
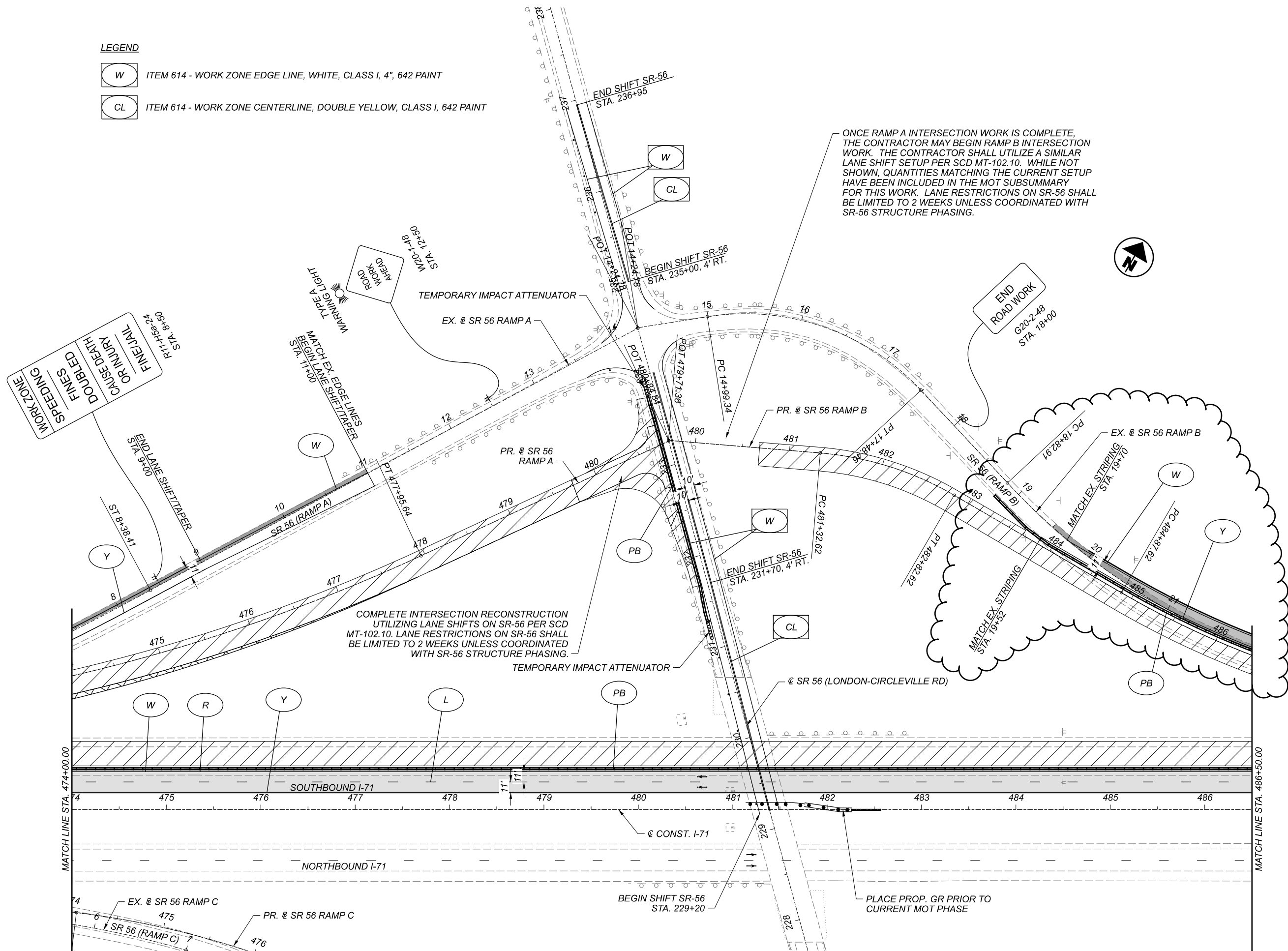
LEGEND



ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 4", 642 PAINT



ITEM 614 - WORK ZONE CENTERLINE, DOUBLE YELLOW, CLASS I, 642 PAINT



MAINTENANCE OF TRAFFIC - PHASE 2A  
STA. 474+00 TO STA. 486+50

DESIGN AGENCY

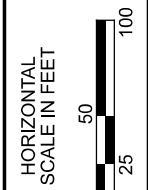
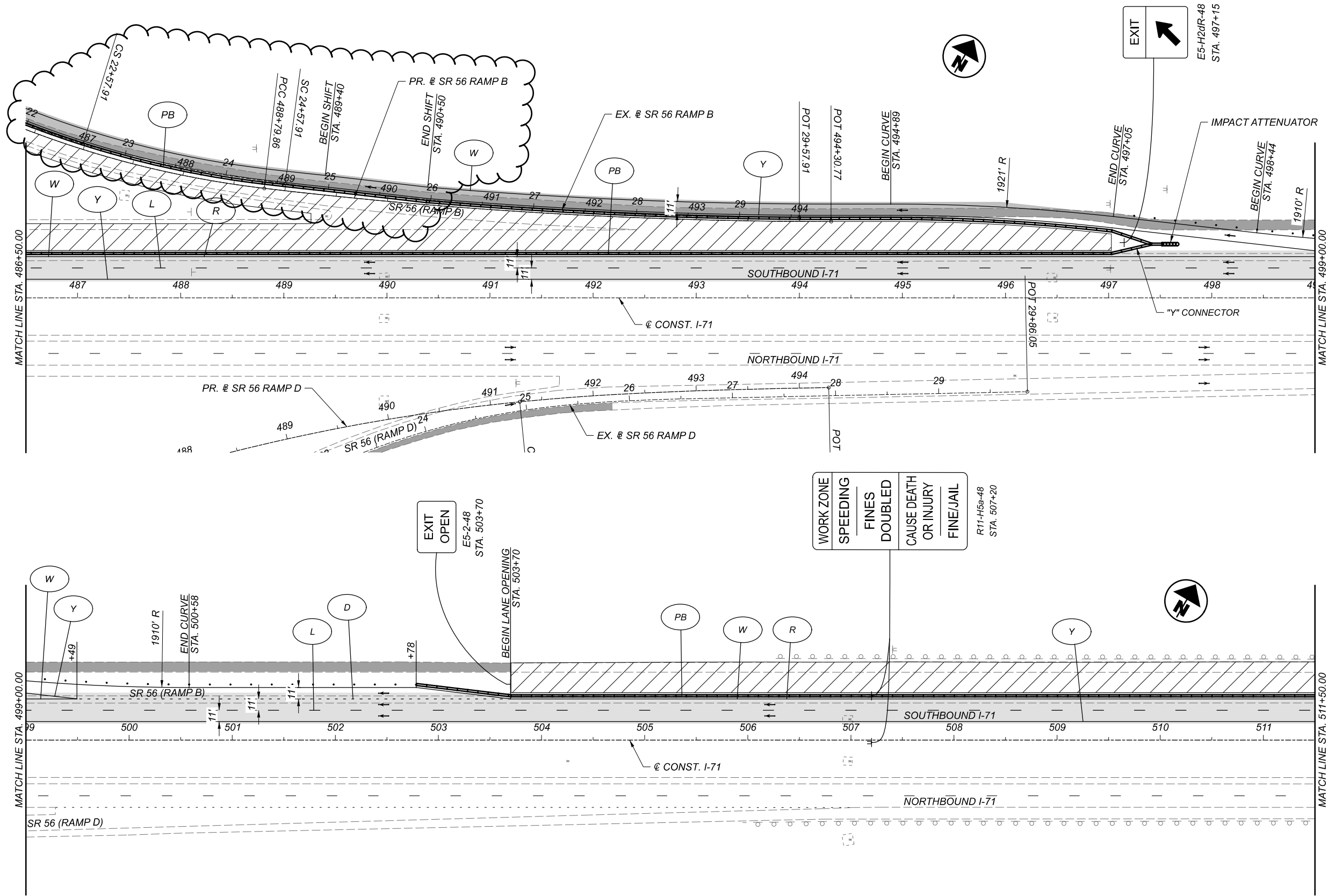
**E.L. ROBINSON**  
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1488 West 9th St, Suite 800  
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950 Goodale Blvd, Suite 180  
Grandview Heights, Ohio 44131

DESIGNER  
TDP

REVIEWER  
MJC 04/26/22

PROJECT ID  
107630

SHEET TOTAL  
P.58 1003



MAINTENANCE OF TRAFFIC - PHASE 2A  
 STA. 486+50 TO STA. 511+50

DESIGN AGENCY



**E.L. ROBINSON**  
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 1466 West 9th St, Suite 800  
 Cleveland, Ohio  
 950 Goodale Blvd, Suite 180  
 Grandview Heights, Ohio

DESIGNER

TDP

REVIEWER

MJC 04/26/22

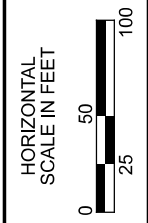
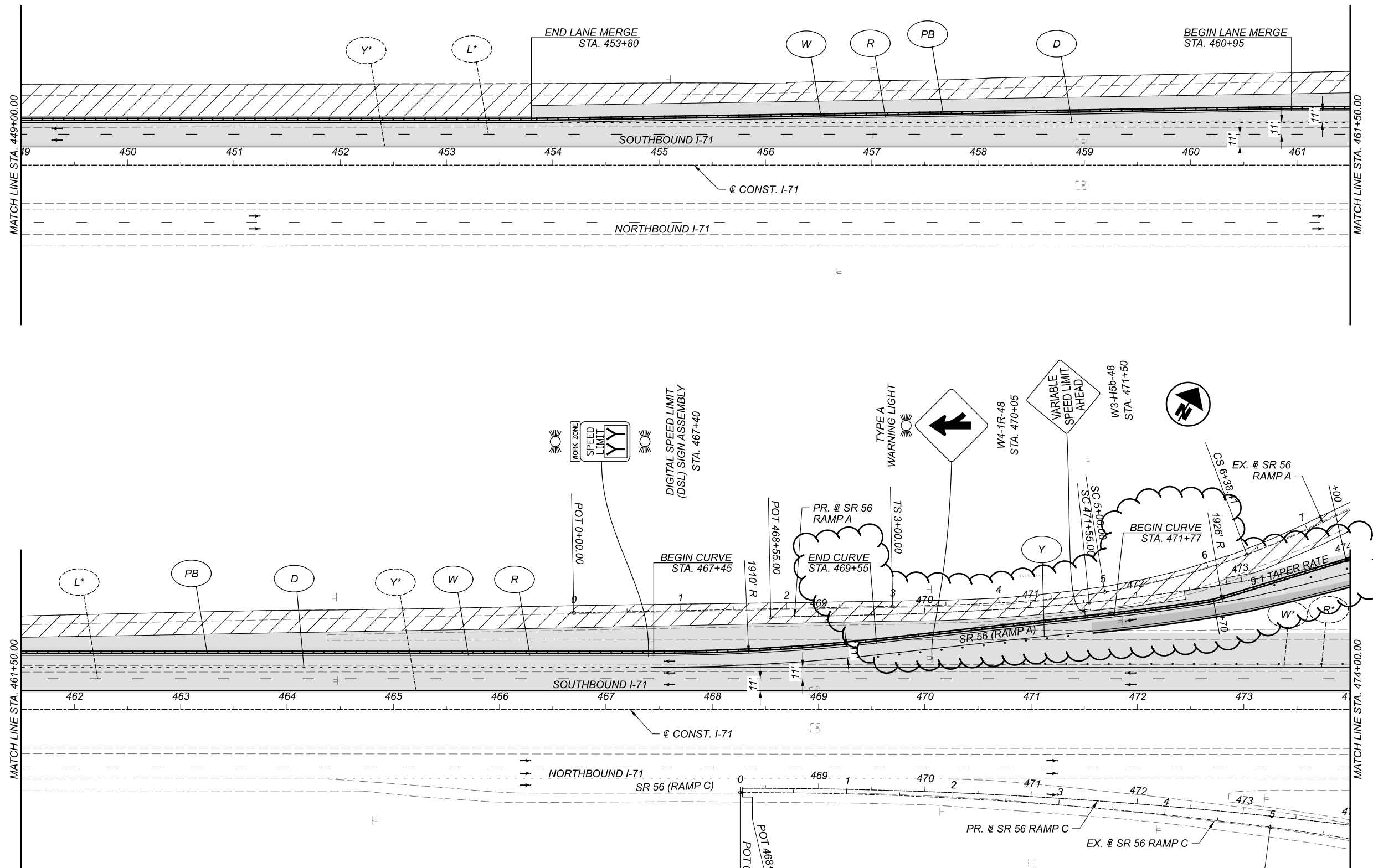
PROJECT ID

107630

SHEET TOTAL

P.59 1003

\* MATCH STRIPING FROM PHASE 2A

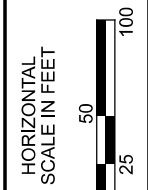
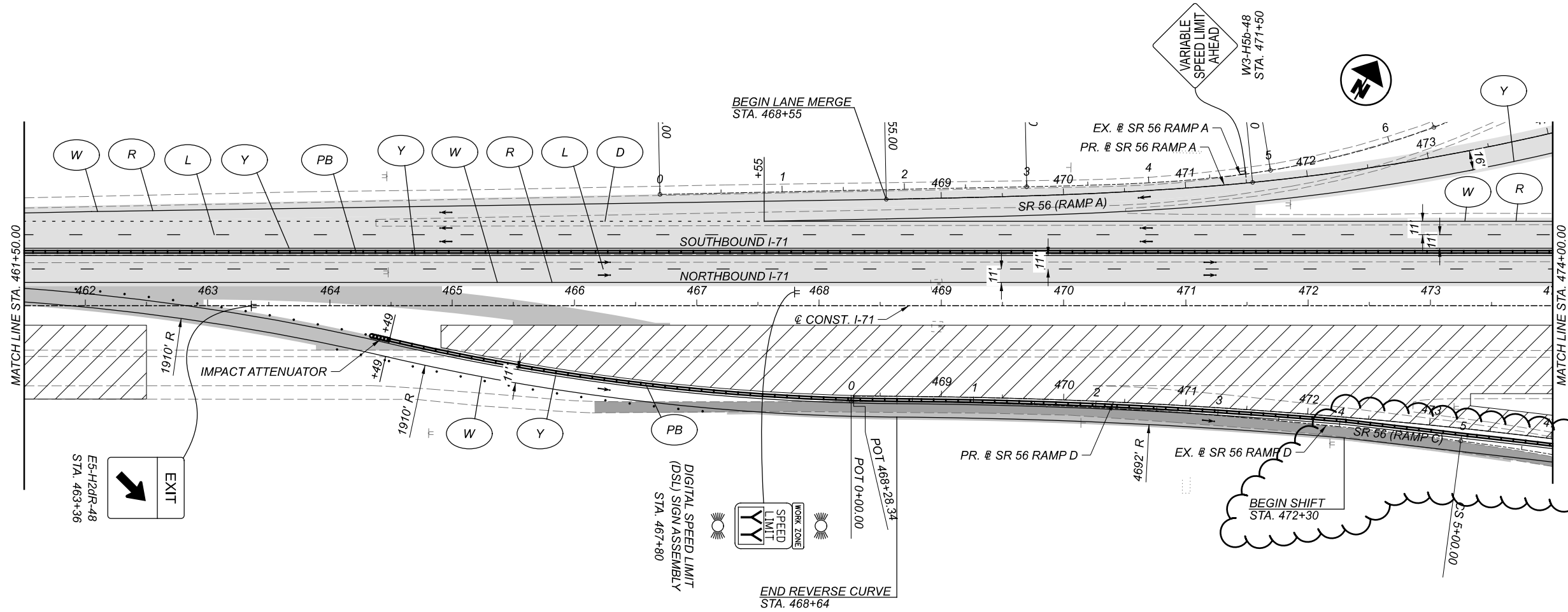
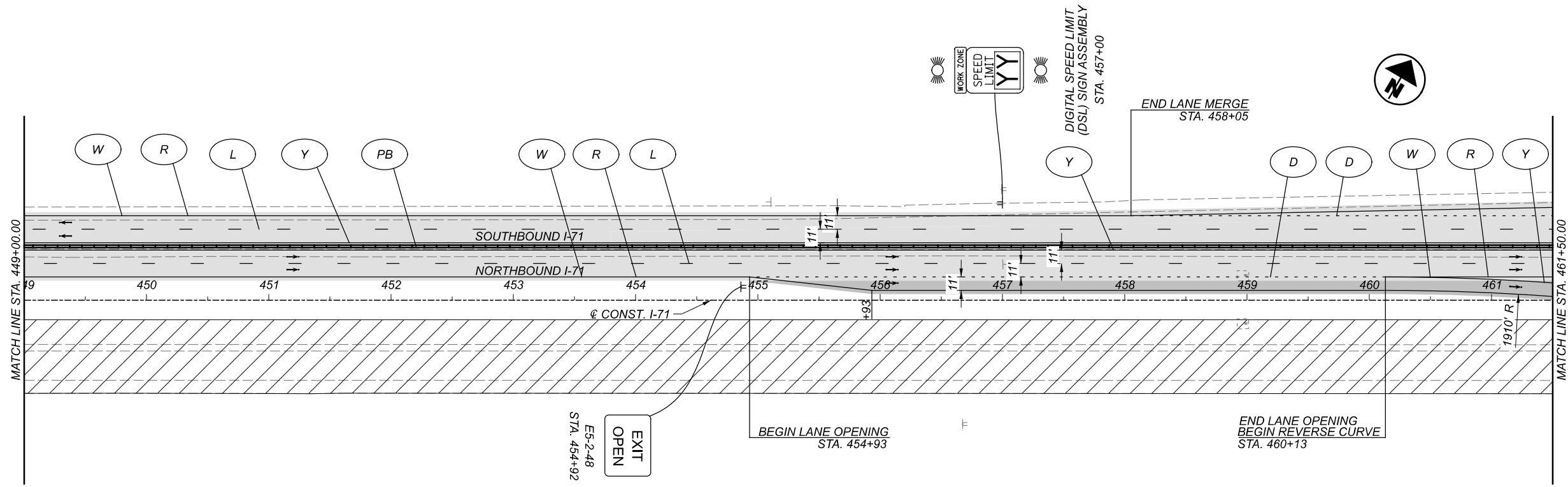


MAINTENANCE OF TRAFFIC - PHASE 2B  
STA. 449+00 TO STA. 474+00

DESIGN AGENCY  
  
**E.L. ROBINSON**  
 ENGINEERING  
 1466 West 9th St, Suite 800  
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 Grandview Heights, Ohio

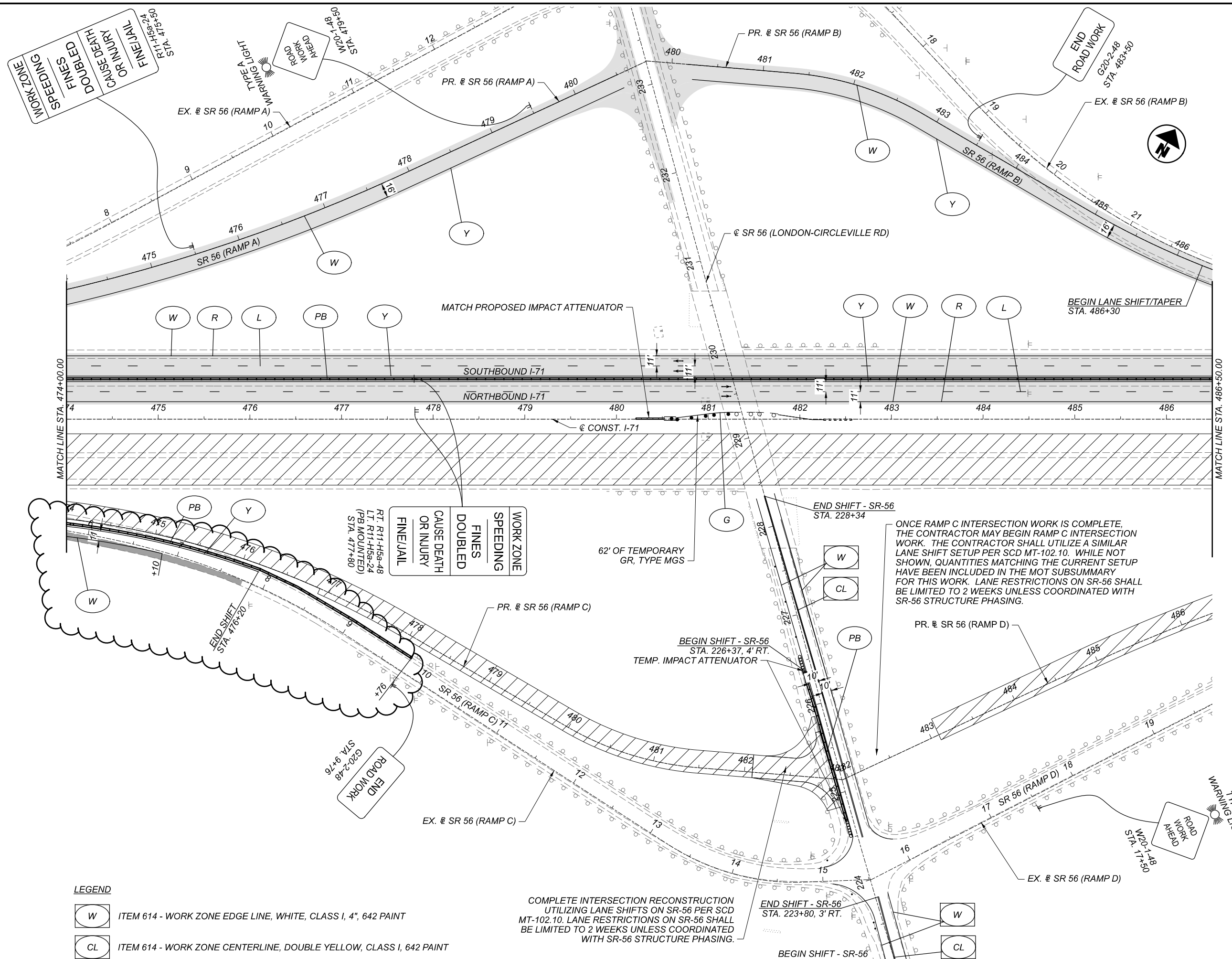
DESIGNER  
 TDP  
 REVIEWER  
 MJC 04/26/22  
 PROJECT ID  
 107630  
 SHEET TOTAL  
 P.77 1003





MAINTENANCE OF TRAFFIC - PHASE 3A  
STA. 449+00 TO STA. 474+00

DESIGN AGENCY  
  
 E.L. ROBINSON ENGINEERING  
 1468 West 9th St, Suite 800  
 Cleveland, Ohio  
 950 Goodale Blvd, Suite 100  
 Grandview Heights, Ohio  
 DESIGNER  
 TDP  
 REVIEWER  
 MJC 04/26/22  
 PROJECT ID  
 107630  
 SHEET TOTAL  
 P.82 1003



WORK ZONE  
 SPEEDING  
 FINES  
 DOUBLED  
 CAUSE DEATH  
 OR INJURY  
 FINE/JAIL  
 RT. R11-H5a-24  
 STA. 473+50

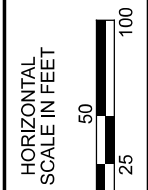
WORK ZONE  
 SPEEDING  
 FINES  
 DOUBLED  
 CAUSE DEATH  
 OR INJURY  
 FINE/JAIL  
 RT. R11-H5a-48  
 LT. R11-H5a-24  
 (PB MOUNTED)  
 STA. 477+80

ONCE RAMP C INTERSECTION WORK IS COMPLETE, THE CONTRACTOR MAY BEGIN RAMP C INTERSECTION WORK. THE CONTRACTOR SHALL UTILIZE A SIMILAR LANE SHIFT SETUP PER SCD MT-102.10. WHILE NOT SHOWN, QUANTITIES MATCHING THE CURRENT SETUP HAVE BEEN INCLUDED IN THE MOT SUBSUMMARY FOR THIS WORK. LANE RESTRICTIONS ON SR-56 SHALL BE LIMITED TO 2 WEEKS UNLESS COORDINATED WITH SR-56 STRUCTURE PHASING.

COMPLETE INTERSECTION RECONSTRUCTION UTILIZING LANE SHIFTS ON SR-56 PER SCD MT-102.10. LANE RESTRICTIONS ON SR-56 SHALL BE LIMITED TO 2 WEEKS UNLESS COORDINATED WITH SR-56 STRUCTURE PHASING.

LEGEND

- W ITEM 614 - WORK ZONE EDGE LINE, WHITE, CLASS I, 4", 642 PAINT
- CL ITEM 614 - WORK ZONE CENTERLINE, DOUBLE YELLOW, CLASS I, 642 PAINT



MAINTENANCE OF TRAFFIC - PHASE 3A  
 STA. 474+00 TO STA. 486+50

DESIGN AGENCY



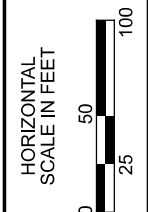
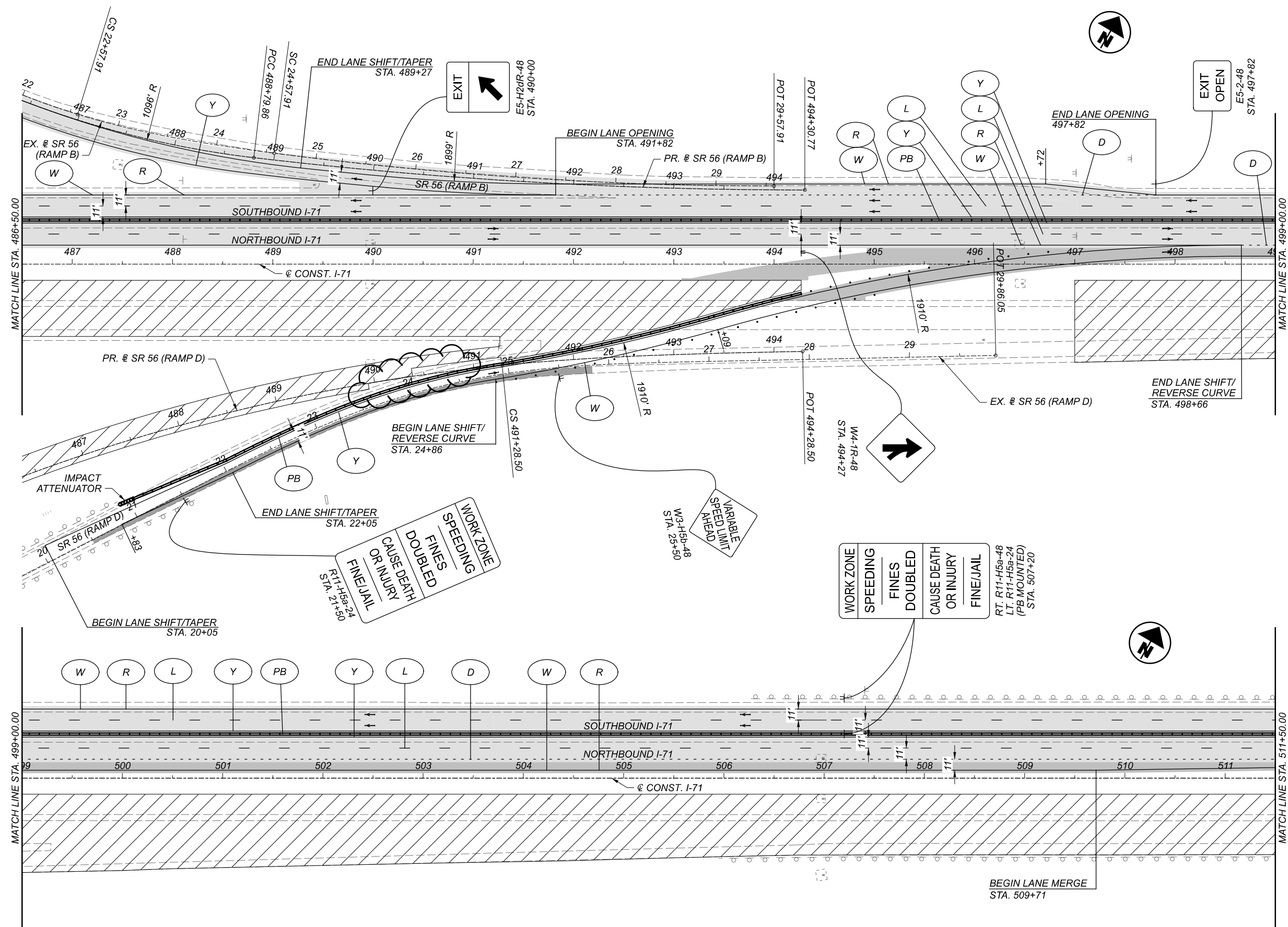
**E.L. ROBINSON**  
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 1466 West 9th St, Suite 800  
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 959 Goodale Blvd, Suite 180  
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DESIGNER  
 TDP

REVIEWER  
 MJC 04/26/22

PROJECT ID  
 107630

SHEET TOTAL  
 P.83 1003



MAINTENANCE OF TRAFFIC - PHASE 3A  
 STA. 486+50 TO STA. 511+50

DESIGN AGENCY

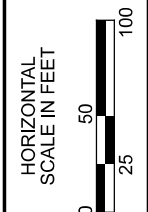
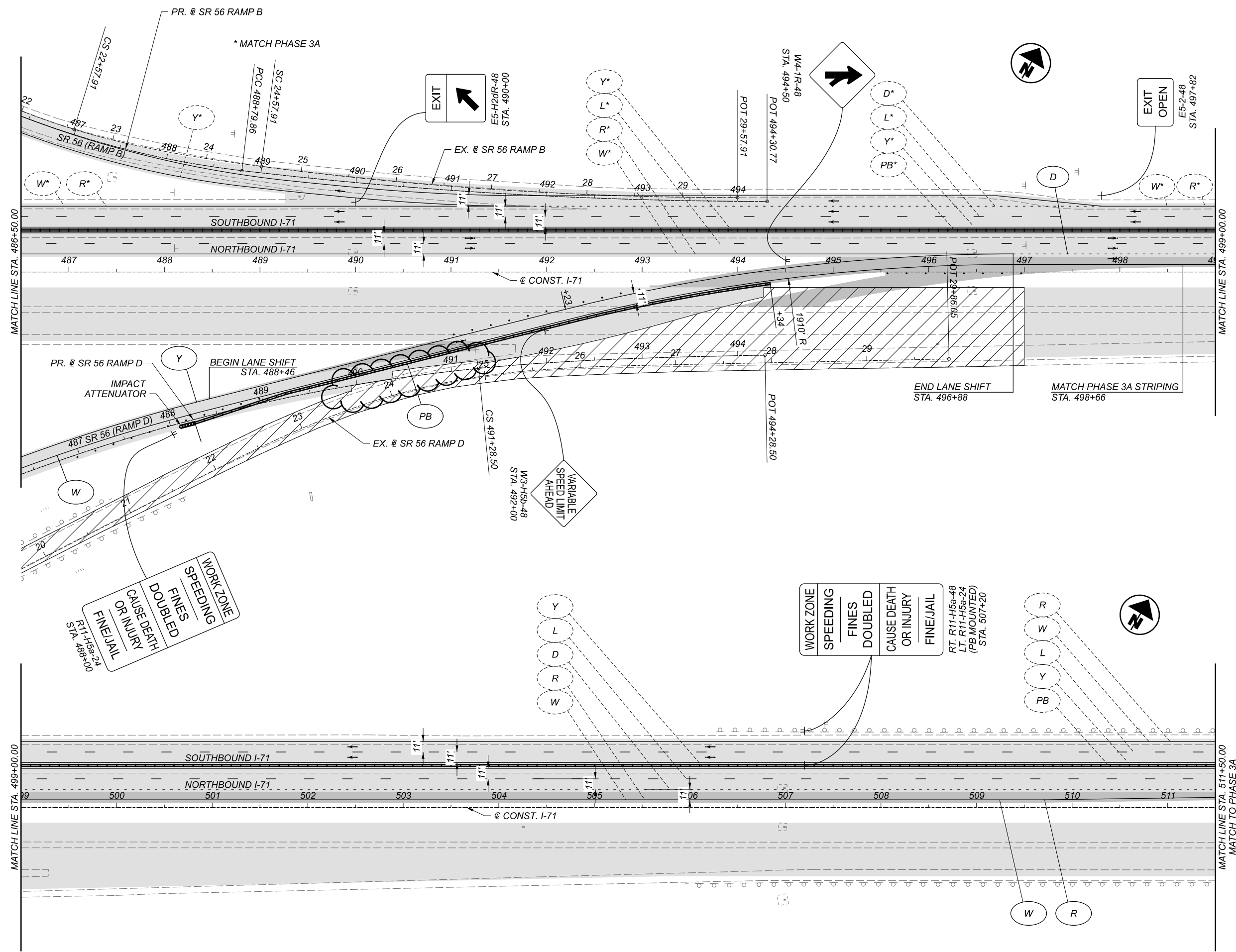
**E.L. ROBINSON**  
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1488 West 9th St, Suite 800  
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950 Goodale Blvd, Suite 180  
Grandview Heights, Ohio

DESIGNER  
TDP

REVIEWER  
MJC 04/26/22

PROJECT ID  
107630

SHEET TOTAL  
P.84 1003



MAINTENANCE OF TRAFFIC - PHASE 3B  
 STA. 486+50 TO STA. 511+50

DESIGN AGENCY



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

DESIGNER

TDP

REVIEWER

MJC 04/26/22

PROJECT ID

107630

SHEET TOTAL

P.103 1003







MAD/PIC-71-7.30/0.00

MODEL: Sheet PAPER: 17x11 (in.) DATE: 1/26/2023 TIME: 9:55:55 PM USER: mcomett  
P:\OHDOT\_Worksets\107630\400-Engineering\Roadway\Sheets\107630\_GG103.dgn

SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
16	17	130	644	645	646	647	648	643	649		01/MS/04	02/MS/03						
108						733	721		16		1,074	504	621	00100	1,578	EACH	RPM	
108						392	388		16		615	289	621	54000	904	EACH	RAISED PAVEMENT MARKER REMOVED	
				3							3		625	32000	3	EACH	GROUND ROD	
		72									49	23	626	00102	72	EACH	BARRIER REFLECTOR, TYPE 1 (ONE WAY)	
		372									253	119	626	00110	372	EACH	BARRIER REFLECTOR, TYPE 2 (ONE WAY)	
		411									280	131	626	00118	411	EACH	BARRIER REFLECTOR, TYPE 6	
				240	68						210	98	630	02100	308	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
				230.5	256						331	155.5	630	03100	486.5	FT	GROUND MOUNTED SUPPORT, NO. 3 POST	
				90	232						219	103	630	04100	322	FT	GROUND MOUNTED SUPPORT, NO. 4 POST	
					68						47	21	630	06100	68	FT	GROUND MOUNTED SUPPORT, NO. 6 POST	
				46.9	52.2						68	31.1	630	07000	99.1	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W8X18	
				38.8							27	11.8	630	07500	38.8	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X22	
				42.5							29	13.5	630	07600	42.5	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	
				113.2							77	36.2	630	08000	113.2	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W12X30	
				6	32						26	12	630	08600	38	EACH	SIGN POST REFLECTOR	
				10	2						9	3	630	09000	12	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION	
				2							2		630	72340	2	EACH	OVERHEAD SIGN SUPPORT, TYPE TC-12.31, DESIGN 12	
				176	329.8						344	161.8	630	80100	505.8	SF	SIGN, FLAT SHEET	
				665.5	219						602	282.5	630	80200	884.5	SF	SIGN, GROUND MOUNTED EXTRUSHEET	
				210							143	67	630	80224	210	SF	SIGN, OVERHEAD EXTRUSHEET	
				10	2						9	3	630	84500	12	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
				3							3		630	84510	3	EACH	RIGID OVERHEAD SIGN SUPPORT FOUNDATION	
		22							57		54	25	630	84900	79	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
		1							1		2		630	85100	2	EACH	REMOVAL OF GROUND MOUNTED SIGN AND REERECTION	
		1							8		7	2	630	85400	9	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	
			2								2		630	85600	2	EACH	REMOVAL OF GROUND MOUNTED MAJOR SIGN AND REERECTION	
		20							49		47	22	630	86002	69	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
		2							16		13	5	630	86102	18	EACH	REMOVAL OF GROUND MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
		3									3		630	87100	3	EACH	REMOVAL OF OVERHEAD MOUNTED SIGN AND REERECTION	
		3									3		630	89100	3	EACH	REMOVAL OF OVERHEAD SIGN SUPPORT AND REERECTION, TYPE TC-12.30	
									1.28		0.88	0.4	642	00100	1.28	MILE	EDGE LINE, 4", TYPE 1	
									0.64		0.44	0.2	642	00300	0.64	MILE	CENTER LINE, TYPE 1	
2.48											2	0.48	644	00104	2.48	MILE	EDGE LINE, 6"	
2.48											2	0.48	644	00204	2.48	MILE	LANE LINE, 6"	
						1,800					1,224	576	644	30000	1,800	FT	REMOVAL OF PAVEMENT MARKING	
						68	67				92	43	646	10400	135	FT	STOP LINE	
						2	2				3	1	646	20320	4	EACH	WRONG WAY ARROW	
	49.2										33.46	15.74	648	00104	49.2	MILE	EDGE LINE, 6"	
	49.2										33.46	15.74	648	00204	49.2	MILE	LANE LINE, 6"	
	4,710										3,203	1,507	648	00404	4,710	FT	CHANNELIZING LINE, 12"	
	4,838										3,290	1,548	648	01510	4,838	FT	DOTTED LINE, 6"	
						16.06	15.78				22	9.84	807	10010	31.84	MILE	WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6"	
						15.21	15.04				21	9.25	807	10110	30.25	MILE	WET REFLECTIVE TRAFFIC PAINT, LANE LINE, 6"	
						1,570	1,570				2,136	1,004	807	10310	3,140	FT	WET REFLECTIVE TRAFFIC PAINT, CHANNELIZING LINE, 12"	
						1,622	1,594				2,187	1,029	807	10410	3,216	FT	WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 6"	
						30.75	30.03				42	18.78	850	10010	60.78	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
						1,570	1,570				2,136	1,004	850	10130	3,140	FT	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
						0.84	1.1				1.32	0.62	850	20010	1.94	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)	

GENERAL SUMMARY

DESIGN AGENCY  
  
**E.L. ROBINSON**  
ENGINEERING  
1466 West 9th St, Suite 800  
Cleveland, Ohio  
950 Goodale Blvd, Suite 150  
Grandview Heights, Ohio  
DESIGNER  
**CJS**  
REVIEWER  
**ACF 04/26/22**  
PROJECT ID  
**107630**  
SHEET TOTAL  
**P.116 1003**

MAD/PIC-71-7.30/0.00

MODEL: Sheet\_PAPER: 17x11 (in.) DATE: 2/9/2023 TIME: 10:20:23 PM USER: mcomett  
P:\OH\DOT\_Worksets\107630\400-Engineering\Roadway\Sheets\107630\_GG107.dgn

SHEET NUM.										PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
786	812									05/MS/14	ITEM	EXT	TOTAL			
<b>STRUCTURE OVER 20 FOOT SPAN (MAD-71-09.590)</b>																
LS										LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	784,787-788, 798,803
156										156	202	22900	156	SY	APPROACH SLAB REMOVED	
20										20	204	30010	20	CY	GRANULAR MATERIAL, TYPE B	
313										313	204	50000	313	SY	GEOTEXTILE FABRIC	
535										535	503	21101	535	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	784, 788,796
103,072										103,072	509	10000	103,072	LB	EPOXY COATED REINFORCING STEEL	
642										642	509	25000	642	LB	UNCOATED REINFORCING STEEL	
10,588										10,588	509	30020	10,588	FT	NO. 4 GFRP DEFORMED BARS	
164										164	510	10001	164	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	784
2										2	511	33501	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN	795
31										31	511	34413	31	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN	789, 792
267										267	511	34446	267	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK	
103										103	511	34451	103	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN	806
31										31	511	46210	31	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL INCLUDING FOOTING	
1,001										1,001	512	10100	1,001	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
8										8	512	33000	8	SY	TYPE 2 WATERPROOFING	
2,904										2,904	513	20000	2,904	EACH	WELDED STUD SHEAR CONNECTORS	
24										24	513	95030	24	EACH	STRUCTURAL STEEL, MISC.: 2" DIA. FIELD DRILLED HOLES	798
11,900										11,900	514	00050	11,900	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL	
11,900										11,900	514	00056	11,900	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT	
11,800										11,800	514	00060	11,800	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT	
11,800										11,800	514	00066	11,800	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT	
19										19	514	00504	19	MNHR	GRINDING FINES, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL	
12										12	514	10000	12	EACH	FINAL INSPECTION REPAIR	
70										70	516	10010	70	FT	ARMORLESS PREFORMED JOINT SEAL	
20										20	516	13600	20	SF	1" PREFORMED EXPANSION JOINT FILLER	
140										140	516	13900	140	SF	2" PREFORMED EXPANSION JOINT FILLER	
65										65	516	14020	65	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	
8										8	516	44101	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN(11"x14"x2.948") & (12"x15"x1.5")	797
LS										LS	516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	784
32										32	518	21201	32	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN	785
65										65	518	40000	65	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	
48										48	518	40011	48	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	795
1,248										1,248	SPECIAL	51900100	1,248	SF	COMPOSITE FIBER WRAP SYSTEM	796
175										175	526	25010	175	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")	
66										66	526	90031	66	FT	TYPE C INSTALLATION, AS PER PLAN	806
100										100	601	20001	100	SY	CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN	785
570										570	607	39900	570	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC	
1										1	625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM	
227										227	840	23000	227	CY	SELECT GRANULAR BACKFILL	
971										971	863	00100	971	SY	GEOGRID, TYPE P1	
<b>STRUCTURE OVER 20 FOOT SPAN (MAD-71-11.450)</b>																
LS										LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	810-811,813-814,830
148										148	202	22900	148	SY	APPROACH SLAB REMOVED	
29										29	204	30010	29	CY	GRANULAR MATERIAL, TYPE B	
370										370	204	50000	370	SY	GEOTEXTILE FABRIC	
509										509	503	21101	509	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	811,814, 822
104,753										104,753	509	10000	104,753	LB	EPOXY COATED REINFORCING STEEL	
15										15	509	20001	15	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	811
564										564	509	25000	564	LB	UNCOATED REINFORCING STEEL	
10,078										10,078	509	30020	10,078	FT	NO. 4 GFRP DEFORMED BARS	
216										216	510	10001	216	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	811,816-817, 819-820
2										2	511	33501	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN	814, 819, 836
28										28	511	34413	28	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN	814, 819

GENERAL SUMMARY

DESIGN AGENCY



**E.L. ROBINSON**  
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REVIEWER

ACF 04/26/22

PROJECT ID

107630

SHEET TOTAL

P.120 1003

SHEET NUM.								PART.	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.
812	840						05/IMS/14	EXT	TOTAL					
<b>STRUCTURE OVER 20 FOOT SPAN (MAD-71-11.450) - CONT</b>														
271							271	511	34446	271	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK		
<del>199</del>							<del>199</del>	<del>511</del>	<del>34451</del>	<del>199</del>	<del>CY</del>	<del>CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN</del>	832	
<del>41</del>							<del>41</del>	<del>511</del>	<del>46210</del>	<del>41</del>	<del>CY</del>	<del>CLASS QC1 CONCRETE, RETAINING/WINGWALL INCLUDING FOOTING</del>		
967							967	512	10100	967	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
32							32	512	33000	32	SY	TYPE 2 WATERPROOFING		
3,336							3,336	513	20000	3,336	EACH	WELDED STUD SHEAR CONNECTORS		
32							32	513	95030	32	EACH	STRUCTURAL STEEL, MISC.: 2" DIA. FIELD DRILLED HOLES	824	
12,036							12,036	514	00050	12,036	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL		
12,036							12,036	514	00056	12,036	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT		
11,885							11,885	514	00060	11,885	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT		
11,885							11,885	514	00066	11,885	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT		
19							19	514	00504	19	MNHR	GRINDING FINES, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL		
12							12	514	10000	12	EACH	FINAL INSPECTION REPAIR		
58							58	516	10010	58	FT	ARMORLESS PREFORMED JOINT SEAL		
17							17	516	13600	17	SF	1" PREFORMED EXPANSION JOINT FILLER		
131							131	516	13900	131	SF	2" PREFORMED EXPANSION JOINT FILLER		
125							125	516	14020	125	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL		
8							8	516	44201	8	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN(14"x14"x3.436" WITH 15"x15" 1 1/2" LOAD PLATE)	823	
LS							LS	516	47001	LS		JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	811	
23							23	518	21201	23	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN	811,815,818	
66							66	518	40000	66	FT	6" PERFORATED CORRUGATED PLASTIC PIPE		
100							100	518	40011	100	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	816, 819	
1,236							1,236	SPECIAL	51900100	1,236	SF	COMPOSITE FIBER WRAP SYSTEM (SEE PROPOSAL NOTE)	822	
175							175	526	25010	175	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")		
63							63	526	90031	63	FT	TYPE C INSTALLATION, AS PER PLAN	832	
35							35	601	20001	35	SY	CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN	811	
550							550	607	39900	550	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC		
1							1	625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM		
223							223	840	23000	223	CY	SELECT GRANULAR BACKFILL		
1,130							1,130	863	00100	1,130	SY	GEOGRID, TYPE P1		
<b>STRUCTURE OVER 20 FOOT SPAN (PIC-71-00.990)</b>														
LS							LS	202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	838-839,841-843,859	
148							148	202	22900	148	SY	APPROACH SLAB REMOVED		
26							26	204	30010	26	CY	GRANULAR MATERIAL, TYPE B		
382							382	204	50000	382	SY	GEOTEXTILE FABRIC		
553							553	503	21101	553	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	839,843,851	
106,584							106,584	509	10000	106,584	LB	EPOXY COATED REINFORCING STEEL		
15							15	509	20001	15	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	839	
770							770	509	25000	770	LB	UNCOATED REINFORCING STEEL		
10,310							10,310	509	30020	10,310	FT	NO. 4 GFRP DEFORMED BARS		
216							216	510	10001	216	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, AS PER PLAN	839,845-846, 848-849	
2							2	511	33501	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN	845, 848	
28							28	511	34413	28	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN	857	
278							278	511	34446	278	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK		
101							101	511	34451	101	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN	861	
41							41	511	46210	41	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL INCLUDING FOOTING		
992							992	512	10100	992	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		
32							32	512	33000	32	SY	TYPE 2 WATERPROOFING		
3,408							3,408	513	20000	3,408	EACH	WELDED STUD SHEAR CONNECTORS		
32							32	513	95030	32	EACH	STRUCTURAL STEEL, MISC.:2" DIA. FIELD DRILLED HOLES	853	
12,296							12,296	514	00050	12,296	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL		
12,296							12,296	514	00056	12,296	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT		
12,145							12,145	514	00060	12,145	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT		
12,145							12,145	514	00066	12,145	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT		
19							19	514	00504	19	MNHR	GRINDING FINES, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL		
13							13	514	10000	13	EACH	FINAL INSPECTION REPAIR		

GENERAL SUMMARY

DESIGN AGENCY



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REVIEWER  
**ACF** 04/26/22

PROJECT ID  
**107630**

SHEET TOTAL  
P.121 | 1003

MAD/PIC-71-7.30/0.00

MODEL: Sheet PAPER: 17x11 (in.) DATE: 1/31/2023 TIME: 12:54:19 PM USER: mcomett  
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SHEET NUM.									PART.					ALT	ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	
11	12	13	14	15	16	17	33	869	01/IMS/04	02/IMS/03	03/IMS/11	04/IMS/10	05/IMS/14	(X)	EXT	TOTAL					
																		<b>STRUCTURE OVER 20 FOOT SPAN (PIC-71-0278) - CONT.</b>			
								55							601	20001	55	SY	CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN	868	
								642							607	39900	642	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC		
								1							625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM		
								320							840	23000	320	CY	SELECT GRANULAR BACKFILL		
								14							843	50000	14	SF	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR		
								1,568							863	00100	1,568	SY	GEOGRID, TYPE P1		
																			<b>STRUCTURE OVER 20 FOOT SPAN (PIC-71-0278) ALTERNATES</b>		
								122,095							X	509	10000	122,095	LB	EPOXY COATED STEEL REINFORCEMENT (ALTERNATE 1)	
								11,484							X	509	30020	11,484	FT	NO. 4 DEFORMED GFRP REINFORCEMENT (ALTERNATE 1)	
								29,781							X	509	10000	29,781	LB	EPOXY COATED STEEL REINFORCEMENT (ALTERNATE 2)	
								33,180							X	509	30020	33,180	FT	NO. 4 DEFORMED GFRP REINFORCEMENT (ALTERNATE 2)	
								54,085							X	509	30030	54,085	FT	NO. 5 DEFORMED GFRP REINFORCEMENT (ALTERNATE 2)	
								26,855							X	509	30040	26,855	FT	NO. 6 DEFORMED GFRP REINFORCEMENT (ALTERNATE 2)	
																			<b>MAINTENANCE OF TRAFFIC</b>		
								3,390	2,306	1,084						411	10000	3,390	CY	STABILIZED CRUSHED AGGREGATE	
					1,500				1,020	480						614	11110	1,500	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE	
				2					2						SPECIAL	61411300	2	EACH	WORK ZONE TRAFFIC SIGNAL	15	
			10,378						7,058	3,320						614	11630	10,378	FT	INCREASED BARRIER DELINEATION	
									281	131.5						SPECIAL	61412200	412.5	FT	WORK ZONE GUARDRAIL	14
							3		17	8						614	12380	25	EACH	WORK ZONE IMPACT ATTENUATOR, 24" WIDE HAZARDS, (UNIDIRECTIONAL)	
									LS	LS						614	12420	LS	EACH	DETOUR SIGNING	
									27	12						614	12484	39	EACH	WORK ZONE INCREASED PENALTIES SIGN	
									7	3						614	12500	10	EACH	REPLACEMENT SIGN	
									204	96						614	12600	300	EACH	REPLACEMENT DRUM	
									3							614	12756	3	EACH	WORK ZONE CROSSOVER LIGHTING SYSTEM	
									2,879	1,354						614	12801	4,233	EACH	WORK ZONE RAISED PAVEMENT MARKER, AS PER PLAN	13
									2,236	1,052						614	13310	3,288	EACH	BARRIER REFLECTOR, TYPE 1 (ONE-WAY)	
									66	31						614	13312	97	EACH	BARRIER REFLECTOR, TYPE 2 (ONE-WAY)	
									1,315	618						614	13350	1,933	EACH	OBJECT MARKER, ONE WAY	
									585	275						614	13360	860	EACH	OBJECT MARKER, TWO WAY	
									49	23						614	18601	72	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN	13
									22	8.91						614	20056	30.91	MILE	WORK ZONE LANE LINE, CLASS I, 6", 807 PAINT	
									0.3	0.44						614	21100	0.44	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PAINT	
									89.13	28.13						614	22056	89.13	MILE	WORK ZONE EDGE LINE, CLASS I, 6", 807 PAINT	
									1.11	0.52						614	22100	1.63	MILE	WORK ZONE EDGE LINE, CLASS I, 4", 642 PAINT	
									6,573	2,103						614	23110	6,573	FT	WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT	
									10,016	3,205						614	24102	10,016	FT	WORK ZONE DOTTED LINE, CLASS I, 6", 807 PAINT	
									40	12						614	26200	40	FT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	
									31	14						614	32658	45	EACH	WORK ZONE SPEED MEASUREMENT MARKING, CLASS I, 642 PAINT	
									LS	LS						615	10000	LS	EACH	ROADS FOR MAINTAINING TRAFFIC	
									15,308	4,898						615	20008	15,308	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	
									4,333	14,186						615	20001	4,333	SY	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN	16
									898	422						616	10000	1,320	MGAL	WATER	
									35.44	10.44						618	41000	35.44	MILE	RUMBLE STRIPES, EDGE LINE (ASPHALT CONCRETE)	
									1	1						622	41050	1	EACH	PORTABLE BARRIER, "Y" CONNECTOR	
									132,382	42,362						622	41011	132,382	FT	PORTABLE BARRIER, 50", AS PER PLAN	16
									1,385	637						622	41110	1,992	FT	PORTABLE BARRIER, ANCHORED	
									267	125						808	18700	392	SNMT	DIGITAL SPEED LIMIT (DSL) SIGN ASSEMBLY	
									41	19						829	00100	60	SNMT	WORK ZONE EGRESS WARNING SYSTEM	
									LS	LS	LS	LS	LS			108	10000	LS		<b>INCIDENTALS</b>	
									LS	LS	LS	LS	LS			614	11000	LS		CPM PROGRESS SCHEDULE	
									12	6	12	6	4			619	16020	40	MNTH	MAINTAINING TRAFFIC	
									LS	LS	LS	LS	LS			623	10000	LS		FIELD OFFICE, TYPE C	
									LS	LS	LS	LS	LS			624	10000	LS		CONSTRUCTION LAYOUT STAKES AND SURVEYING	
									LS	LS	LS	LS	LS			878	25000	LS		MOBILIZATION	
									39,000	19,500	39,000	19,500	13,000			100	51100	130,000	EACH	INSPECTION AND COMPACTION TESTING OF UNBOUND MATERIALS	
									3,675	1,838	3,675	1,837	1,225			SPECIAL	11110100	12,250	EACH	DEPARTMENT'S SHARE OF THE DISPUTE RESOLUTION BOARD	
																				DEPARTMENTS SHARE FACILITATED PARTNERING COSTS	

GENERAL SUMMARY

DESIGN AGENCY  
  
**E.L. ROBINSON**  
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DESIGNER  
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REVIEWER  
**ACF 04/26/22**

PROJECT ID  
**107630**

SHEET TOTAL  
**P.123 1003**

STATION TO STATION		SIDE	LENGTH (L) FT	AVERAGE WIDTH (W) FT	SURFACE AREA (A) A=L*W SQ FT	PLANIMETER AREAS SQ FT	204	202	204	206	206	206	206	302	304	407	442	442	442	452	442
FROM	TO						SQ YD	SQ YD	HOUR	SQ YD	TON	SQ YD	LUMP	CU YD	CU YD	GALLON	CU YD	CU YD	CU YD	CU YD	CU YD
<b>IR-71</b>																					
444+85.00	448+25.60	LT	341	56	19074				2233	2233	58	2233		511	370	383	88	103			
444+85.00	446+16.03	RT	131	56	7338				859	859	22	859		197	142	147	34	40			
446+16.03	448+69.40	RT	253			14833			1733	1733	45	1733		397	287	298	69	80			
448+25.60	450+78.97	LT	253			14833			1733	1733	45	1733		397	287	298	69	80			
448+69.40	465+04.73	RT	1635	56	91578				10720	10720	277	10720		2454	1777	1839	424	495			
450+78.97	456+05.25	LT	526	56	29472				3450	3450	89	3450		790	572	592	136	159			
456+05.25	471+56.95	LT	1552			108000			12517	12517	324	12517		2882	2077	2167	500	583			
465+04.73	473+32.76	RT	828			58669			6795	6795	176	6795		1565	1127	1177	272	317			
471+56.95	480+99.00	LT	942	56	52755				6176	6176	160	6176		1414	1023	1059	244	285			
480+99.00	481+48.00	LT	49	56	2744				330	330	9	330		76	55	56	13	15			
481+48.00	489+26.40	LT	778	56	43590				5103	5103	132	5103		1168	846	875	202	235			
473+32.76	481+30.00	RT	797	56	44645				5226	5226	135	5226		1196	866	896	207	241			
481+30.00	481+79.00	RT	49	56	2744				330	330	9	330		76	55	56	13	15			
481+79.00	491+26.55	RT	948	56	53063				6212	6212	161	6212		1422	1029	1065	246	287			
489+26.40	497+81.12	LT	855			60430			6999	6999	181	6999		1612	1161	1212	280	326			
491+26.55	505+78.25	RT	1452			102400			11862	11862	307	11862		2732	1968	2054	474	553			
497+81.12	517+61.32	LT	1980	56	110891				12981	12981	336	12981		2971	2151	2227	513	599			
505+78.25	517+61.32	RT	1183	56	66252				7756	7756	201	7756		1775	1285	1330	307	358			
517+61.32	517+86.32	LT/RT	25	112	2800				328	328	8	328			54						
520+22.32	520+47.32	LT/RT	25	112	2800				328	328	8	328			54						
520+47.32	523+76.87	LT	330	56	18455				2160	2160	56	2160		494	358	371	85	100			
520+47.32	521+66.53	RT	119	56	6676				781	781	20	781		179	130	134	31	36			
521+66.53	524+19.90	RT	253			14833			1733	1733	45	1733		397	287	298	69	80			
523+76.87	526+29.47	LT	253			14790			1728	1728	45	1728		396	286	297	68	80			
524+19.90	540+08.71	RT	1589	56	88973				10416	10416	270	10416		2384	1726	1787	412	481			
526+29.47	540+08.71	LT	1379	56	77237				9042	9042	234	9042		2070	1498	1551	358	417			
540+08.71	554+43.72	LT/RT	1435	112	160721				18815	18815	487	18815		4307	3118	2156	744	868			
554+43.72	562+69.00	LT/RT	825	112	92431				10820	10820	280	10820		2477	1793	1240	428	499			
562+69.00	563+18.00	LT	49	56	2744				330	330	9	330		76	55	56	13	15			
562+69.00	562+96.00	RT	27	56	1512				177	177	5	177		41	29	30	7	8			
562+96.00	563+45.00	RT	49	56	2744				330	330	9	330		76	55	56	13	15			
563+18.00	608+73.29	LT	4555	56	255096				29862	29862	773	29862		6835	4949	5122	1181	1378			
563+45.00	608+73.29	RT	4528	56	253584				29685	29685	768	29685		6795	4920	5092	1174	1370			
608+73.29	622+83.31	LT/RT	1410	112	157922				18487	18487	478	18487		4232	3064	2118	731	853			
622+83.31	661+15.00	LT/RT	3832	112	429149				50238	50238	1300	50238		11499	8326	8600	1987	2318			
661+15.00	661+36.00	LT	21	56	1176				138	138	4	138		32	23	24	5	6			
661+15.00	661+64.00	RT	49	56	2744				321	321	8	321		76	55	56	13	15			
661+36.00	661+85.00	LT	49	56	2744				321	321	8	321		76	55	56	13	15			
661+64.00	686+19.53	RT	2456	56	137510				16097	16097	417	16097		3685	2668	2761	637	743			
661+85.00	688+29.10	LT	2644	56	148070				17334	17334	449	17334		3968	2873	2973	686	800			
686+19.53	688+72.90	RT	253			14833			1733	1733	45	1733		397	287	298	69	80			
688+29.10	690+82.47	LT	253			14833			1733	1733	45	1733		397	287	298	69	80			
688+72.90	697+44.05	RT	871	56	48784				5711	5711	148	5711		1307	946	980	226	263			
690+82.47	697+74.07	LT	692	56	38730				4534	4534	117	4534		1038	751	778	179	209			
697+44.05	697+69.05	RT	25	56	1400				164	164	4	164			27						
697+74.07	697+99.07	LT	25	56	1400				164	164	4	164			27						
698+84.57	699+09.57	RT	25	56	1400				164	164	4	164			27						
TOTALS CARRIED TO SHEET 138																					
									336688	336688	8712	336688	LUMP	76868	55810	54861	13286	15503			

PAVEMENT SUBSUMMARY

DESIGN AGENCY  
  
**E.L. ROBINSON**  
 ENGINEERING  
 1466 West 9th St, Suite 800  
 Cleveland, Ohio  
 950 Goodale Blvd, Suite 160  
 Grandview Heights, Ohio

DESIGNER  
**CJS**

REVIEWER  
**ACF 07/26/22**

PROJECT ID  
**107630**

SHEET TOTAL  
**P.136 1003**

STATION TO STATION		SIDE	LENGTH (L) FT	AVERAGE WIDTH (W) FT	SURFACE AREA (A) A=L*W SQ FT	PLANIMETER AREAS SQ FT	204	202	204	206	206	206	206	302	304	407	442	442	442	452	442
FROM	TO						SUBGRADE COMPACTION SQ YD	PAVEMENT REMOVED SQ YD	PROOF ROLLING HOUR	CEMENT STABILIZED SUBGRADE 12.00" SQ YD	CEMENT TON	CURING COAT SQ YD	MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOIL LUMP	ASPHALT CONCRETE BASE, AS PER PLAN 8.50" CU YD	6" AGGREGATE BASE 6.00" CU YD	NON-TRACKING TACK COAT 0.060 G/SY GALLON	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447) 1.50" CU YD	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446) 1.75" CU YD	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449) 1.50" CU YD	13" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 WITH QC/OA SQ YD	ANTI-SEGREGATION EQUIPMENT CY
<b>IR-71</b>																					
699+14.59	699+39.59	LT	25	56	1400			164	164	4	164										
699+09.57	725+14.00	RT	2604	56	145848			17073	17073	442	17073		3908	2830	2929	675	788				
699+39.59	725+68.00	LT	2628	56	147191			17231	17231	446	17231		3944	2856	2956	681	795				
725+14.00	725+63.00	RT	49	56	2744			321	321	8	321		76	55	56	13	15				
725+68.00	726+17.00	LT	49	56	2744			321	321	8	321		76	55	56	13	15				
725+63.00	820+14.00	RT	9451	56	529256			61957	61957	1603	61957		14181	10268	10627	2450	2859				
726+17.00	819+37.00	LT	9320	56	521920			61098	61098	1581	61098		13985	10125	10480	2416	2819				
819+37.00	819+86.00	LT	49	56	2744			321	321	8	321		76	55	56	13	15				
819+86.00	840+30.00	LT	2044	56	114464			13400	13400	347	13400		3067	2221	2298	530	618				
820+14.00	820+63.00	RT	49	56	2744			321	321	8	321		76	55	56	13	15				
820+63.00	840+30.00	RT	1967	56	110152			12895	12895	334	12895		2952	2137	2212	510	595				
840+30.00	841+80.00	LT/RT	150			17400		2033	2033	53	2033		466	337	349	81	94				
<b>ALL I-71 CURB AREAS</b>		LT/RT	356					7	7	0	7		-6	1							
444+85.00	517+61.32	LT/RT	7276			619885															6242
520+47.32	697+59.06	LT/RT	17712			1275245															12792
699+24.58	841+80.00	LT/RT	14255			1026390															10296
<b>BARRIER AC INTERMEDIATE STEP</b>		LT/RT				1062															6
<b>IR-71 PAVEMENT REMOVALS</b>																					
444+85.00	470+50.85	LT/RT				265375		30753													
470+50.85	517+85.83	LT				199505		22167													
472+85.72	517+85.83	RT				204116		22680													
520+22.92	575+00.00	LT/RT				438366		48707													
575+00.00	665+00.00	LT/RT				710002		78889													
665+00.00	698+00.00	LT/RT				262682		29187													
699+00.00	780+00.00	LT/RT				638915		70991													
780+00.00	841+80.00	LT/RT				488045		54227													
<b>RAMP A</b>																					
471+55.48	478+85.61	LT/RT	730	25	18253			2272	2272	59	2272			352							2028
478+85.61	479+72.34	LT/RT	87	25	2168			270	270	7	270			42							241
479+72.34	480+40.37	LT/RT	68			6173		709	709	18	709			116							686
3+75.00	14+00.00	LT/RT				26319		2924													
<b>RAMP B</b>																					
480+23.73	480+67.48	LT/RT	44			5109		582	582	15	582			95							568
480+67.48	483+51.26	LT/RT	284	25	7094			883	883	23	883			137							788
483+51.26	488+77.39	LT/RT	526	25	13153			1637	1637	42	1637			253							1461
488+77.39	489+27.43	LT/RT	50	25	1251			156	156	4	156			24							139
14+50.00	25+00.00	LT/RT				27188		3021													
<b>Ramp C</b>																					
473+31.69	473+81.82	LT/RT	50			1307		162	162	4	162			25							145
473+81.82	479+29.29	LT/RT	547	25	13687			1703	1703	44	1703			264							1521
479+29.29	482+09.23	LT/RT	280	25	6999			871	871	23	871			135							778
482+09.23	482+53.29	LT/RT	44			5160		588	588	15	588			96							573
4+50.00	15+00.00	LT/RT				27272		3030													
<b>Ramp D</b>																					
482+36.45	483+08.90	LT/RT	72			6227		716	716	19	716			117							692
483+08.90	483+97.89	LT/RT	89	25	2225			277	277	7	277			43							247
483+97.89	491+28.02	LT/RT	730	25	18253			2272	2272	59	2272			352							2028
15+50.00	25+50.00	LT/RT				24741		2749													
<b>TOTALS CARRIED TO SHEET 138</b>								369326	200238	200238	5182	200238		42803	33072	32074	7395	8630		11896	29336

PAVEMENT SUBSUMMARY

DESIGN AGENCY  
  
**E.L. ROBINSON**  
 ENGINEERING  
 1466 West 9th St, Suite 800  
 Cleveland, Ohio 44115  
 950 Goodale Blvd, Suite 180  
 Grandview Heights, Ohio 44131  
 DESIGNER  
 CJS  
 REVIEWER  
 ACF 07/26/22  
 PROJECT ID  
 107630  
 SHEET TOTAL  
 P.137 1003



MAD/PIC-71-7.30/0.00

MODEL: Sheet PAPER: 17x11 (in.) DATE: 2/4/2023 TIME: 2:02:01 PM USER: mcomett  
P:\OH\DOT\_Worksets\107630\400-Engineering\Roadway\Sheets\107630\_GS110.dgn

STATION TO STATION		SIDE	LENGTH (L) FT	AVERAGE WIDTH (W) FT	SURFACE AREA (A) A=L*W SQ FT	PLANIMETER AREAS SQ FT	204	202	204	206	206	206	302	304	407	442	442	442	452	442	
FROM	TO						SUBGRADE COMPACTION	PAVEMENT REMOVED	PROOF ROLLING	CEMENT STABILIZED SUBGRADE	CEMENT	CURING COAT	MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOIL	ASPHALT CONCRETE BASE, AS PER PLAN	6" AGGREGATE BASE	NON-TRACKING TACK COAT	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (447)	ASPHALT CONCRETE INTERMEDIATE COURSE, 12.5MM, TYPE A (446)	ASPHALT CONCRETE SURFACE COURSE, 12.5MM, TYPE A (449)	13" NON-REINFORCED CONCRETE PAVEMENT, CLASS QC1 WITH QC/OA	ANTI-SEGREGATION EQUIPMENT
							SQ YD	SQ YD	TON	SQ YD	LUMP	CU YD	CU YD	GALLON	CU YD	CU YD	CU YD	SQ YD	CY		
<b>SR-56</b>																					
226+51.50	227+50.55	LT/RT	99			3089	373						84	62	62		17				
227+50.55	227+75.55	LT/RT	25	32	800		96							17							
230+66.25	230+91.25	LT/RT	25	32	800		96							17							
230+91.25	231+90.50	LT/RT	99			3138	378						85	63	63		17				
<b>CR-54</b>																					
22+04.00	23+28.16	LT/RT	124			3019	372						83	62	61		16				
23+28.16	23+53.16	LT/RT	25	28	700		85							15							
26+46.84	26+71.84	LT/RT	25	28	700		85							15							
26+71.84	27+96.00	LT/RT	124			3114	383						86	64	63		17				
<b>CR-56</b>																					
22+08.00	23+34.25	LT/RT	126			2980	369						82	61	60		16				
23+34.25	23+59.25	LT/RT	25	28	700		85							15							
26+40.75	26+65.75	LT/RT	25	28	700		85							15							
26+65.75	27+92.00	LT/RT	126			2932	363						81	61	59		16				
<b>CR-3</b>																					
22+07.00	23+31.20	LT/RT	124			3128	384						86	64	63		17				
23+31.20	23+56.20	LT/RT	25	28	700		85							15							
26+43.80	26+68.80	LT/RT	25	28	700		85							15							
26+68.80	27+93.00	LT/RT	124			3160	388						87	65	64		17				
<b>TR-160</b>																					
31+88.00	33+12.15	LT/RT	124			3014	372						83	62	61		16				
33+12.15	33+37.15	LT/RT	25	28	700		85							15							
36+62.85	36+87.85	LT/RT	25	28	700		85							15							
36+87.85	38+12.00	LT/RT	124			2985	369						82	61	60		16				
<b>TOTALS FROM THIS SHEET</b>							4625		4625				840	779	617		166		142		
<b>TOTALS FROM SHEET 136</b>									336688	336688	8712	336688	LUMP	76868	55810	54861	13286	15503			
<b>TOTALS FROM SHEET 137</b>								369326	200238	200238	5182	200238		42803	33072	32074	7395	8630		11896	29336
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>							4625	369326	271	536926	13894	536926	LUMP	120511	89661	87552	20681	24299		11896	29336

PAVEMENT SUBSUMMARY

DESIGN AGENCY



**E.L. ROBINSON**  
ENGINEERING  
1466 West 9th St, Suite 800  
Cleveland, Ohio 44115  
950 Goodale Blvd, Suite 180  
Grandview Heights, Ohio 44131

DESIGNER  
CJS

REVIEWER  
ACF 07/26/22

PROJECT ID  
107630

SHEET TOTAL  
P.138 1003

MAD/PIC-71-7.30/0.00

MODEL: Sheet 17 PAPER: 17x11 (in.) DATE: 1/31/2023 TIME: 2:15:40 PM USER: mcorbett  
P3\_OHDOT\_Worksets\107630\400-Engineering\Roadway\Sheets\107630\_GS100.dgn

SHEET NO.	STATION	203					
		EXCAVATION	EMBANKMENT	EMBANKMENT, AS PER PLAN			
	FROM TO	CY	CY	CY			
<b>CR-54</b>							
499	22+04.00	3	0				
500	22+50.00	69	0				
500	23+00.00	76	0				
500	23+28.16 (BEGIN REAR APPROACH SLAB)	49	0				
	23+53.16 (END REAR APPROACH SLAB)	46	0				
	26+46.84 (BEGIN FORWARD APPROACH SLAB)	42	0				
501	26+71.84 (END FORWARD APPROACH SLAB)	47	0				
501	27+00.00	48	0				
501	27+50.00	79	0				
502	27+96.00	34	0				
<b>CR-56</b>							
503	22+08.00	0	0				
504	22+50.00	30	1				
504	23+00.00	75	1				
504	23+34.25 (BEGIN REAR APPROACH SLAB)	60	0				
	23+59.25 (END REAR APPROACH SLAB)	47	0				
	26+40.75 (BEGIN FORWARD APPROACH SLAB)	48	0				
505	26+65.75 (END FORWARD APPROACH SLAB)	61	0				
505	27+00.00	28	0				
505	27+50.00	73	0				
506	27+92.00	27	0				
<b>CR-3</b>							
507	22+07.00	4	0				
507	22+50.00	55	0				
507	23+00.00	74	0				
508	23+31.20 (BEGIN REAR APPROACH SLAB)	51	0				
	23+56.20 (END REAR APPROACH SLAB)	41	0				
	26+43.80 (BEGIN FORWARD APPROACH SLAB)	44	0				
508	26+68.80 (END FORWARD APPROACH SLAB)	53	0				
508	27+00.00	54	0				
509	27+50.00	78	1				
509	27+93.00	33	1				
509	28+00.00	0	0				
510	28+50.00	0	0				
<b>TR-160</b>							
511	31+88.00	30	0				
512	32+00.00	18	1				
512	32+50.00	71	3				
512	33+00.00	80	1				
513	33+12.15 (BEGIN REAR APPROACH SLAB)	23	0				
	33+37.15 (END REAR APPROACH SLAB)	50	0				
	36+62.85 (BEGIN FORWARD APPROACH SLAB)	50	0				
513	36+87.85 (END FORWARD APPROACH SLAB)	23	0				
513	37+00.00	25	0				
514	37+50.00	80	1				
514	38+00.00	64	8				
514	38+12.00	7	2				
515	38+50.00	0	0				
515	39+00.00	0	0				
TOTALS CARRIED TO P. 152		1952	21	0			

SHEET NO.	STATION	203					
		EXCAVATION	EMBANKMENT	EMBANKMENT, AS PER PLAN			
	FROM TO	CY	CY	CY			
DEDUCT FOR PAVEMENT REMOVED (EX. TRAVELED LANES) -85899							
DEDUCT FOR PAVEMENT REMOVED (EX. SHOULDERS) -20823							
TOTALS FROM P. 139 21061 95 0							
TOTALS FROM P. 139 38712 181 0							
TOTALS FROM P. 140 24895 526 484							
TOTALS FROM P. 140 18637 1310 0							
TOTALS FROM P. 141 34149 13 0							
TOTALS FROM P. 141 20091 395 0							
TOTALS FROM P. 142 18124 573 0							
TOTALS FROM P. 143 27512 28 0							
TOTALS FROM P. 144 9688 2486 1033							
TOTALS FROM P. 145 21944 974 0							
TOTALS FROM P. 146 16119 1049 0							
TOTALS FROM P. 147 10512 2397 0							
TOTALS FROM P. 148 14389 2851 0							
TOTALS FROM P. 149 25931 5 0							
TOTALS FROM P. 150 6455 42420 0							
TOTALS FROM P. 151 8188 63900 0							
TOTALS FROM THIS SHEET 1952 21 0							
TOTALS CARRIED TO GENERAL SUMMARY 211637 119223 1518							

EARTHWORK SUBSUMMARY

DESIGN AGENCY



**E.L. ROBINSON**  
ENGINEERING  
1466 West 9th St, Suite 800  
Cleveland, Ohio  
950 Goodale Blvd, Suite 180  
Grandview Heights, Ohio

DESIGNER

CJS

REVIEWER

MJC 04/26/22

PROJECT ID

107630

SHEET

P.152

TOTAL

1003

SHEET	STATION		SIDE	CULVERT SUBSUMMARY																				
	FROM	TO		202	202	202	202	209	503	601	601	601	601	602	605	611	611	601	601	611	611	611	611	
			LS	EACH	FT	FT	FT	LS	SY	CY	CY	CY	CY	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT
553	471+00	471+00	LT/RT		2	280		100	LS	4.9		8.9		2			280							
555	48199 RAMP C	48199 RAMP C	LT/RT		2	120						3.3		1.8			120							
557	575+18	575+18	LT/RT		2	212		100	LS	16		19.8		4.8					216.00					
558	667+10	667+10	LT/RT	1	2			100	LS		117.1			25.3							212			
546	733+00	733+00	LT/RT									2		0.7			210							
559	759+00	759+00	LT/RT		2	204		100	LS			15	3.9	0.7	213									
560	833+35	833+35	LT/RT		2	16	187	100		11.8		11.1		2.6	20							200		
561	839+75	839+75	LT/RT		2	20		100		11.5	54			10.6									20	286
				*106" X 166" CONDUIT, TYPE A, 706.04 OR 706.03 OR 121"X199" CONDUIT, TYPE A, STRUCTURAL PLATE CORRUGATED STEEL PIPE ARCH 707.03 (0.109) METALLIC COATED (GALVANIZED) w/CONCRETE FIELD PAVING																				
TOTALS CARRIED TO GENERAL SUMMARY				1	14	852	187	600	LS	44	171	54	9	49	20	213	210	280	120	216	212	200	20	286

CULVERT SUBSUMMARY

DESIGN AGENCY



**E.L. ROBINSON**  
ENGINEERING

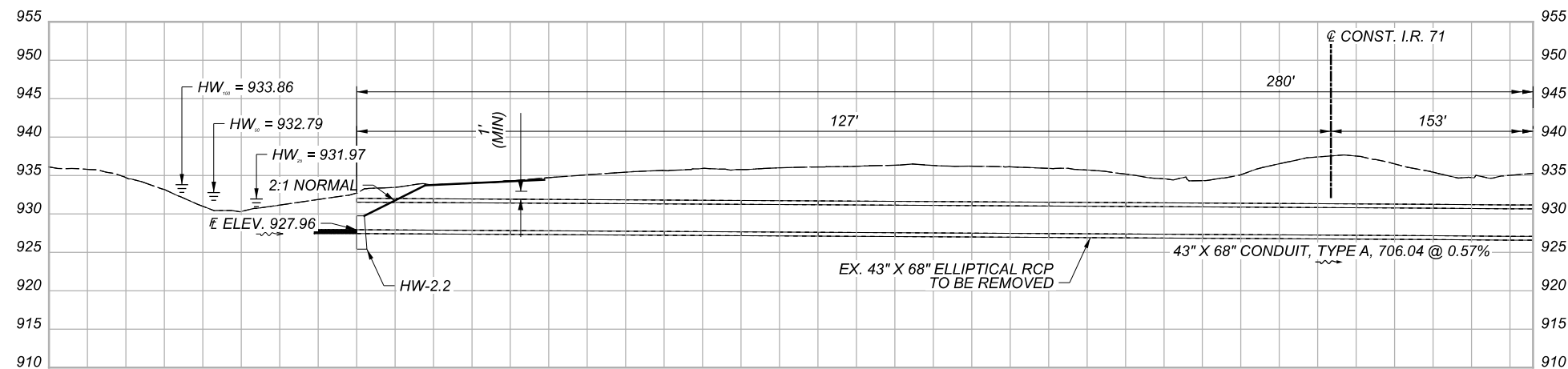
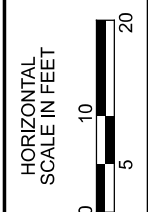
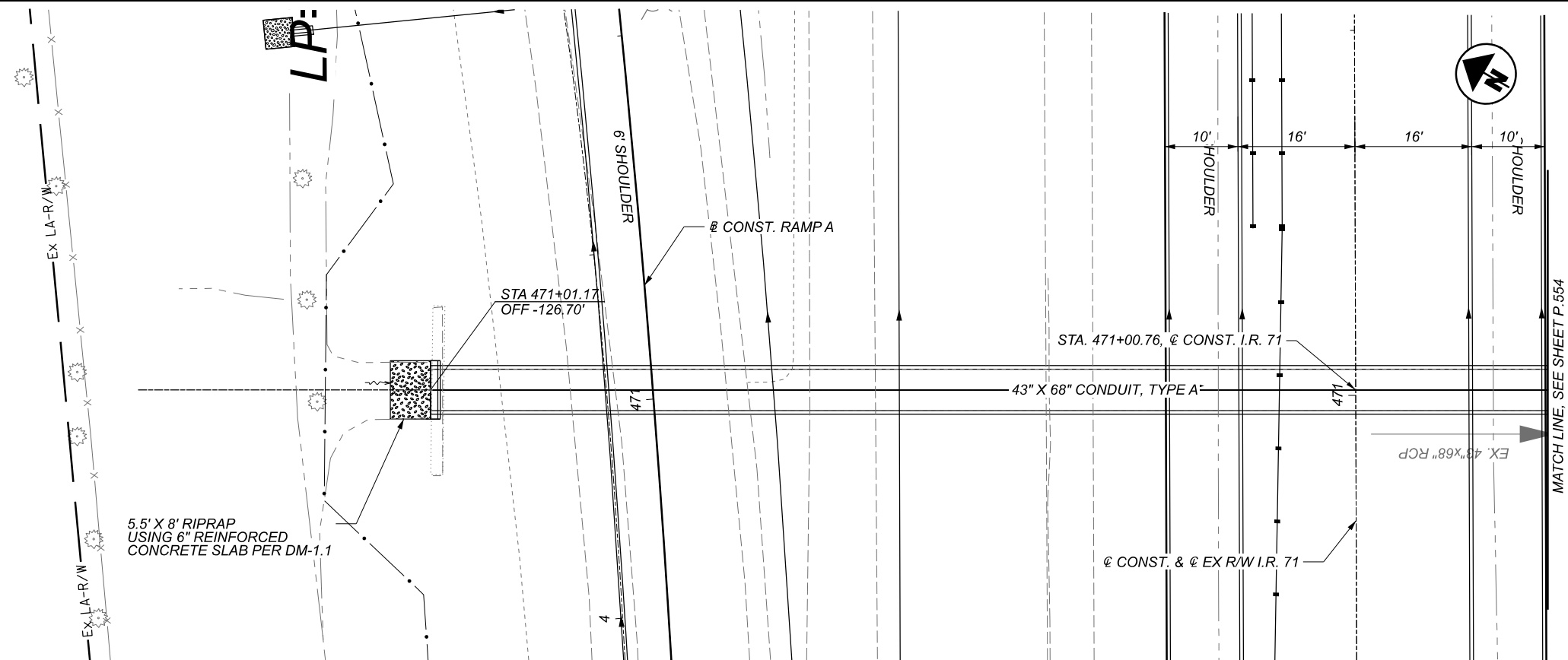
1466 West 9th St, Suite 800  
Cleveland, Ohio  
950 Goodale Blvd, Suite 160  
Grandview Heights, Ohio

DESIGNER  
JOF

REVIEWER  
ENB 04/26/22

PROJECT ID  
107630

SHEET TOTAL  
P.552 1003



EXISTING STRUCTURE	
TYPE:	68" X 43" ELLIPTICAL RCP
LENGTH:	238' +/-
SKEW:	0°
WEARING SURFACE:	ASPHALT CONCRETE
YEAR BUILT:	
CONDITION:	SATISFACTORY
CFN:	1977445

HYDRAULIC DESIGN DATA		
DRAINAGE AREA:	= 174	AC
Q25	= 105	CFS
Q100	= 156	CFS
HW25	= 931.97	
HW100	= 933.86	
V25	= 9.27	FPS
V100	= 10.43	FPS
ORDINARY HIGH WATER MARK	= 927.44	FT
SERVICE LIFE	= 75	YR
pH	= 7.2	
ABRASION LEVEL	= 1	
CFN	=	

I.R. 71 STA. 471+00 - ESTIMATED QUANTITIES			
ITEM	QUANTITY	UNIT	DESCRIPTION
202	2	EACH	HEADWALL REMOVED
202	280	FT	PIPE REMOVED, OVER 24"
209	140	FT	DITCH CLEANOUT
503	140	LS	COFFERDAMS AND EXCAVATION BRACING
601	4.9	SY	RIPRAP
601	8.9	CY	ROCK CHANNEL PROTECTION, TYPE B WITH FILTER
602	2.0	CY	CONCRETE MASONRY
611	280	FT	43" X 68" CONDUIT, TYPE A, 706.04 OR 706.03

QUANTITIES CARRIED TO DRAINAGE SUBSUMMARY, SHEET 552

CULVERT DETAILS  
 I.R. 71 STA. 471+00

DESIGN AGENCY

**E.L. ROBINSON**  
 ENGINEERING  
 1468 West 9th St, Suite 800  
 Cleveland, Ohio  
 950 Goodale Blvd, Suite 160  
 Grandview Heights, Ohio

DESIGNER  
**JAB**

REVIEWER  
**ENB 04/26/22**

PROJECT ID  
**107630**

SHEET TOTAL  
**P.553 1003**

SHEET NO.	REFERENCE NO.	LOCATION	STATION TO STATION		SIDE	LENGTH	MARKING TYPE																		
			FROM	TO			618 RUMBLE STRIPS, SHOULDER (ASPHALT CONCRETE)	621 RPM (YELLOW/RED)	621 RPM (YELLOW)	621 RPM (WHITE)	621 RPM (WHITE/RED)	621 RAISED PAVEMENT MARKER REMOVED	644 REMOVAL OF PAVEMENT MARKING	646 STOP LINE	646 WRONG WAY ARROW	807 WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6" (WHITE)	807 WET REFLECTIVE TRAFFIC PAINT, EDGE LINE, 6" (YELLOW)	807 WET REFLECTIVE TRAFFIC PAINT, LANE LINE, 6"	807 WET REFLECTIVE TRAFFIC PAINT, CHANNELIZING LINE, 12"	807 WET REFLECTIVE TRAFFIC PAINT, DOTTED LINE, 6" (WHITE)	850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	850 GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	850 GROOVING FOR 6" RECESSED PAVEMENT MARKING, (CONCRETE)		
							MILE	EACH	EACH	EACH	EACH	EACH	FT	FT	EACH	MILE	MILE	MILE	FT	FT	MILE	FT	MILE		
601-636	ELY-1	I-71 SB	444+85	850+80	RT.																				
601-603	ELW-1	I-71 SB	444+85	471+57	LT.											0.51							7.60	0.09	
	DL-1		NOT USED																						
601-636	LL-1	I-71 SB	444+85	841+80	LT.				333									7.52					7.43	0.09	
602&603	DL-3	I-71 SB	456+05	466+82	LT.														1077			0.21			
601-636	LL-2	I-71 SB	444+85	850+80	RT.				341														7.60	0.09	
603	CH-1	I-71 SB	466+82	471+57	LT.					12	12									950			950		
603&605	ELW-3	I-71 SB	471+57	489+26	LT.																		0.34		
603&605	ELW-7	RAMP A	471+57	480+75	LT.																		0.18		
603&605	ELY-3	RAMP A	471+57	480+75	RT.			14				14											0.18		
605-636	ELW-6	I-71 SB	489+26	841+80	LT.																		6.59	0.09	
605&608	CH-3	I-71 SB	489+26	492+36	LT.					15	15									620			620		
605	SL-1	RAMP B	479+95											68											
605	ELW-8	RAMP B	479+80	489+27	LT.											0.24								0.24	
605	ELY-4	RAMP B	479+80	489+27	RT.			18				18												0.24	
605	WWA-1	RAMP B	480+25												1										
605	WWA-2	RAMP B	482+60												1										
608	DL-4	I-71 SB	492+36	497+81	LT.															545			0.11		
636	MR-1	I-71 SB	841+80	850+80	RT.								900												
636	MR-2	I-71 SB	841+80	850+80	RT.								900												
601-610	RS-1	I-71 SB	444+85	517+61	RT.																		1.38		
601-603	RS-2	I-71 SB	444+85	466+82	LT.																		0.42		
603-605	RS-5	I-71 SB	466+82	489+26	LT.																		0.43		
605-610	RS-8	I-71 SB	490+26	517+61	LT.																		0.52		
610-624	RS-9	I-71 SB	520+47	697+73	RT.																		3.36		
610-624	RS-11	I-71 SB	520+47	697+95	LT.																		3.37		
624-636	RS-15	I-71 SB	699+61	841+80	LT.																		2.7		
624-636	RS-16	I-71 SB	699+39	850+80	RT.																		2.87		
601-636		EX. I-71 SB														333									
SUBTOTAL								32	0	674	27						7.95	8.11							
TOTALS CARRIED TO GENERAL SUMMARY							15.05			733		392	1800	68	2		16.06	15.21	1570	1622		30.75	1570	0.84	

PAVEMENT MARKING SUBSUMMARY

DESIGN AGENCY

**2LMN**

DESIGNER

JJR

REVIEWER

ALL 07/20/22

PROJECT ID

107630

SHEET TOTAL

P. 647 1003



**GENERAL NOTES:**

**PROPOSED WORK: MAJOR REHABILITATION**

REPLACE EXISTING FOUR SPAN BRIDGE WITH NEW FOUR SPAN PRESTRESSED CONCRETE BEAM BRIDGE FOUNDED ON SEMI-INTEGRAL ABUTMENTS AND CAP AND COLUMN PIERS. EXISTING PIER PILES ARE TO REMAIN AND WILL BE REUSED IN NEW PIERS.

**REFERENCE WILL BE MADE TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:**

AS-1-15	REVISED	7/17/15
AS-2-15	REVISED	1/18/19
PCB-91	REVISED	7/17/20
SBR-1-20	REVISED	7/17/20
SICD-1-21	DATED	1/21/22
SICD-2-14	REVISED	1/15/21
VPF-1-90	REVISED	7/20/18
PSID-1-13	REVISED	1/15/21

**AND THE FOLLOWING HIGHWAY LIGHTING DRAWINGS:**

HL-50.21	REVISED	1/15/21
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**AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:**

800	DATED	10/21/22
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**DESIGN SPECIFICATIONS:**

THIS STRUCTURE CONFORMS TO "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 9th EDITION, 2020, AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

**DESIGN LOADING:**

VEHICULAR LIVE LOAD: HL93  
FUTURE WEARING SURFACE (FWS) OF 0.060 KSF

**OPERATIONAL IMPORTANCE:**

A LOAD MODIFIER OF 1.0 HAS BEEN ASSUMED FOR THE DESIGN OF THIS STRUCTURE IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, ARTICLE 1.3.5 AND THE ODOT BRIDGE DESIGN MANUAL.

**DESIGN DATA:**

CONCRETE, QC/QA CLASS QC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)  
CONCRETE, CLASS QC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)  
REINFORCING STEEL - MINIMUM YIELD STRENGTH 60 KSI  
CONCRETE FOR PRESTRESSED BEAMS:  
COMPRESSIVE STRENGTH (FINAL): 9.5 KSI  
COMPRESSIVE STRENGTH (RELEASE): 7 KSI

**WELDED WIRE FABRIC:**

YIELD STRENGTH - 70 KSI

**PRESTRESSING STRAND:**

AREA = 0.217 SQ IN

ULTIMATE STRENGTH = 270 KSI

INITIAL STRESS = 202.5 KSI (LOW RELAXATION STRANDS)

STEEL CIP PILES - ASTM A252 GRADE 3 - YIELD STRENGTH 45 KSI

**DECK PROTECTION METHOD:**

EPOXY COATED REINFORCING STEEL  
2 1/2" CONCRETE COVER

**MONOLITHIC WEARING SURFACE:**

IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH THICK

**EXISTING BRIDGE PLANS:**

FOR INFORMATION SHOWN, EXISTING BRIDGE PLANS MAY BE INSPECTED IN THE OFFICE OF STRUCTURAL ENGINEERING IN COLUMBUS OHIO OR AT THE DISTRICT 6 OFFICE, 400 EAST WILLIAM STREET, DELAWARE, OHIO, 43015.

**MAINTENANCE OF TRAFFIC:**

FOR MAINTENANCE OF TRAFFIC PLANS, SEE ROADWAY SHEETS.

**UTILITIES:**

FOR UTILITY NOTES, SEE ROADWAY SHEETS.

**EXISTING STRUCTURE VERIFICATION:**

EXISTING STRUCTURE VERIFICATION: DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

**DECK PLACEMENT DESIGN ASSUMPTIONS:**

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

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.20 KIPS FOR A TOTAL MACHINE LOAD OF 17.60 KIPS.

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

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 INCHES.

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

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

THE SOUTHWEST PARAPET OF THE EXISTING BRIDGE HAS A TEMPORARY SUPPORT SYSTEM. CONTRACTOR SHALL REMOVE THIS SYSTEM AND RETURN IT TO THE DISTRICT 6 BRIDGE DEPARTMENT AT 400 EAST WILLIAM STREET, DELAWARE, OHIO 43015 TO THE ATTENTION OF SAM MORRISON.

**ITEM 503-COFFERDAMS AND EXCAVATION BRACING, AS PER PLAN:**

THE DESIGN SHOWN ON THE PLANS FOR TEMPORARY SUPPORT OF EXCAVATION IS ONE REPRESENTATIVE DESIGN THAT MAY BE USED TO CONSTRUCT THE PROJECT. THE CONTRACTOR MAY CONSTRUCT THE DESIGN SHOWN ON THE PLANS OR PREPARE AN ALTERNATE DESIGN FOR TEMPORARY SUPPORT OF EXCAVATION. PREPARE AND PROVIDE PLANS IN ACCORDANCE WITH C&MS 501.05. THE DEPARTMENT WILL PAY FOR THE TEMPORARY SUPPORT OF EXCAVATION AT THE CONTRACT LUMP SUM PRICE FOR COFFERDAMS AND EXCAVATION BRACING. THE DEPARTMENT WILL NOT MAKE ADDITIONAL PAYMENT FOR PROVIDING AND ALTERNATE DESIGN.

**ITEM 503- UNCLASSIFIED EXCAVATION, AS PER PLAN:**

THIS ITEM INCLUDES THE EXCAVATION AND BACKFILL REQUIRED TO CONSTRUCT THE PROPOSED PORTIONS OF THE ABUTMENT AND WINGWALLS. THE BACKFILL MATERIAL BEHIND THE ABUTMENT SHALL BE TYPE B GRANULAR MATERIAL, 703.16. PLACED AND COMPACTED IN 6 INCH LIFTS AS PER 304.05. THIS ITEM DOES NOT INCLUDE QUANTITIES INCIDENTAL TO ITEM 202 AND 518.

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

THE ULTIMATE BEARING VALUE IS 278 KIPS PER PILE FOR THE 28 ABUTMENT PILES AND 318 KIPS PER PILE FOR THE 21 PIER PILES.

**ABUTMENT PILES:**

REAR ABUTMENT - 12" DIAMETER PILES 45 FEET LONG, ORDER LENGTH  
FORWARD ABUTMENT - 12" DIAMETER PILES 75 FEET LONG, ORDER LENGTH  
1 DYNAMIC LOAD TEST

**PIER PILES:**

12" DIAMETER PILES 70 FEET LONG, ORDER LENGTH  
1 DYNAMIC LOAD TEST

PROVIDE PLAIN CYLINDRICAL CASINGS WITH A MINIMUM PILE WALL THICKNESS OF 0.375-INCH FOR THE CAST-IN-PLACE REINFORCED CONCRETE PILES.

**PILE DRIVING:**

THE MINIMUM RATED ENERGY OF THE HAMMER USED TO INSTALL THE PILES SHALL BE 42,000 FOOT-POUNDS. ENSURE THAT THE STRESSES IN THE PILES DURING DRIVING DO NOT EXCEED 40.5 KSI.

**ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN**

THE THICKNESS FOR CRUSHED AGGREGATE SLOPE PROTECTION SHALL BE 1'-0" MINIMUM. THE EXISTING STONE MATERIAL SHALL BE REUSED AND PLACED ACCORDING TO 601.06 AND PLACED ONLY IN AREAS WHERE NEEDED OR AS DIRECTED BY THE ENGINEER. ADDITIONAL MATERIAL AND FILTER FABRIC WILL BE NECESSARY. THE ESTIMATED QUANTITY IS PER SQUARE YARD AND IS CALCULATED BASED ON AN ESTIMATED REPAIR AREA OF 100 SQUARE YARDS.

**ITEM 622 - TEMPORARY BARRIER, ANCHORED, AS PER PLAN**

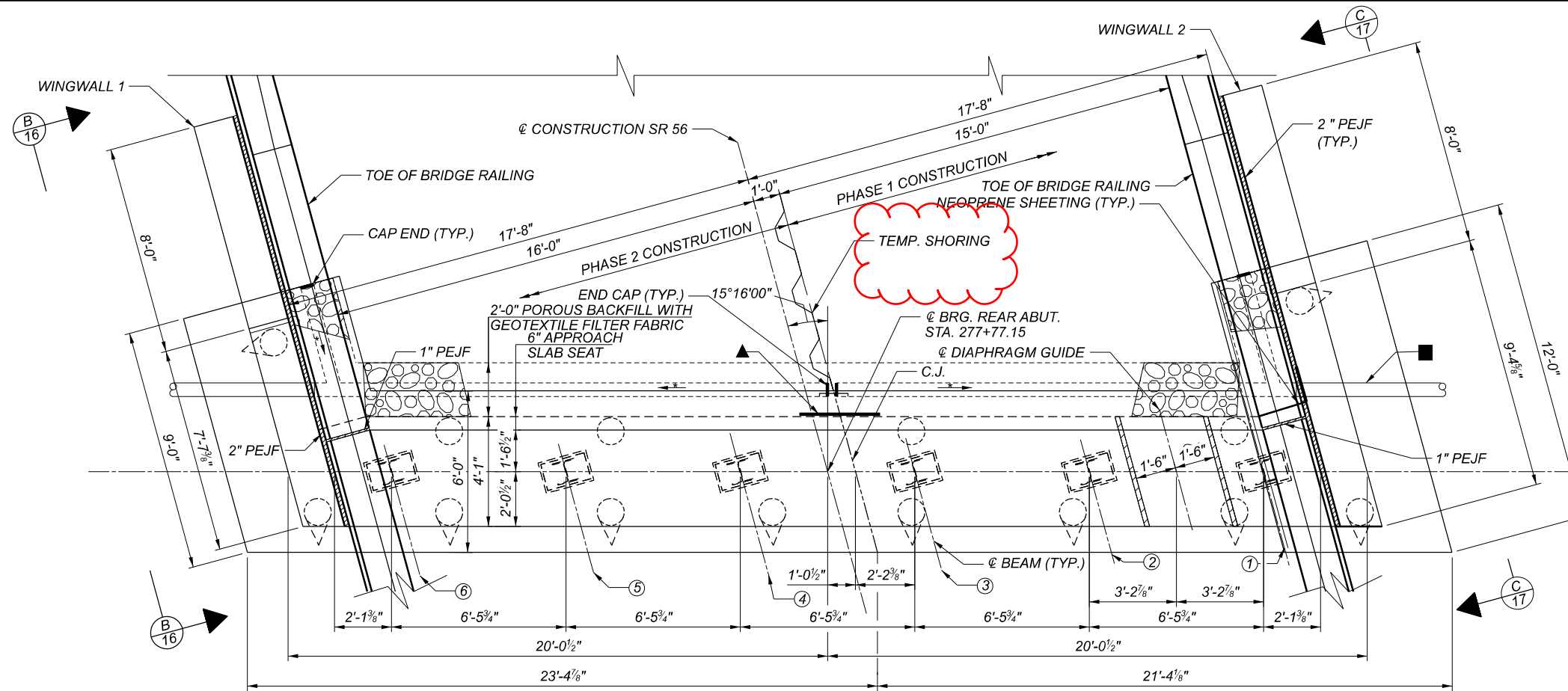
CONTRACTOR MAY USE PORTABLE CONCRETE BARRIER PER ODOT STD. DWG. PCB-91 OR EASI-SET WORLDWIDE TEMPORARY BARRIER. ANCHORING REQUIREMENTS SHOWN IN THESE PLANS IS FROM PCB-91. IF EASI-SET WORLDWIDE TEMPORARY BARRIER IS USED, CONTRACTOR SHALL FOLLOW MANUFACTURERS RECOMMENDATIONS FOR ANCHORING MORE INFORMATION CAN BE FOUND ON THE ODOT'S OFFICE OF ROADWAY ENGINEERING WEBSITE.

MAD/PIC-71-7.30/0.00

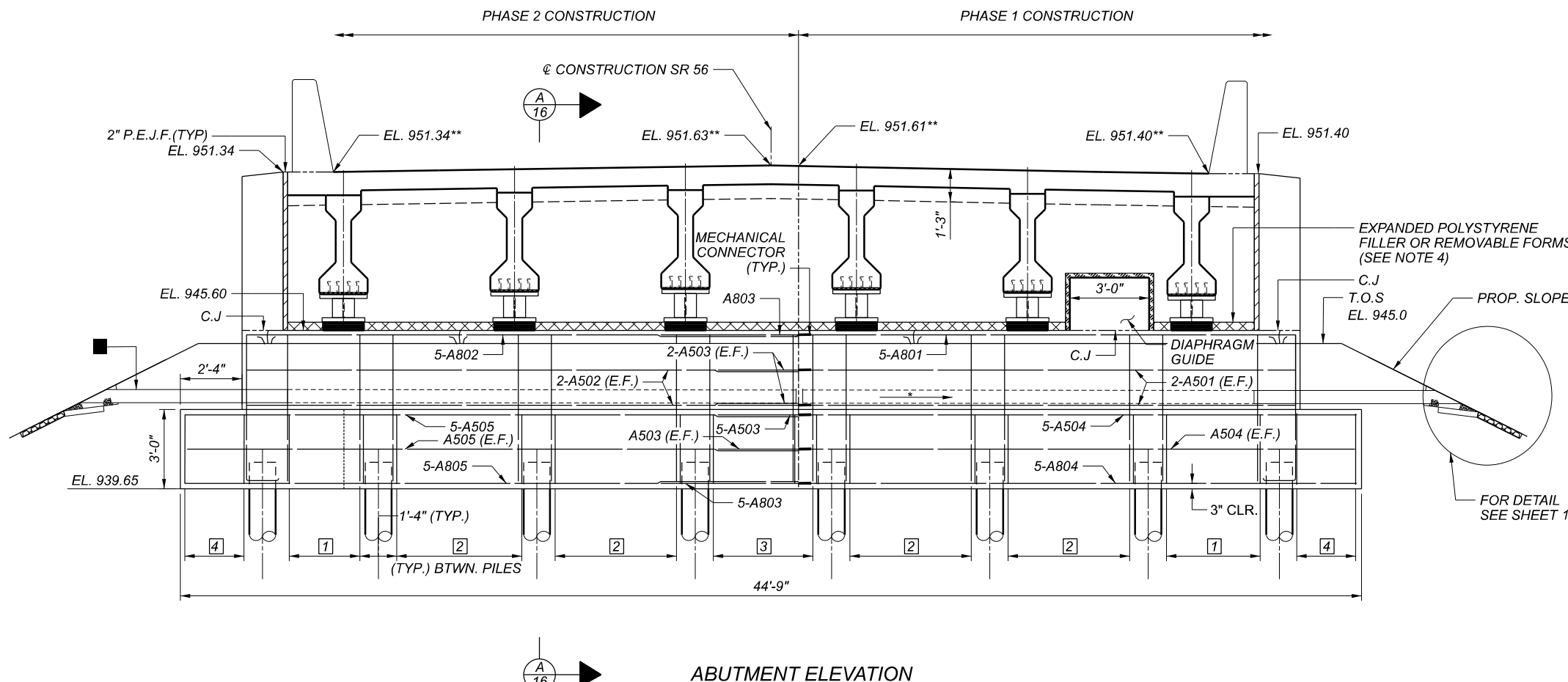
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GENERAL NOTES (1 OF 2)  
BRIDGE NO. MAD-071-08.044  
SR 56 OVER IR 71

SFN	4901960
DESIGN AGENCY	BG
DESIGNER	RG
CHECKER	CCJ
REVIEWER	
PROJECT ID	GTB 02-22-22
SUBSET	107630
SHEET	3
TOTAL	37
TOTAL	748
TOTAL	1003



ABUTMENT PLAN



ABUTMENT ELEVATION

MIN. LAP LENGTH	
NO. 5 BAR	3'-0"
NO. 8 BAR	5'-4"

LEGEND:

- (#) - BEAM DESIGNATION
- [1] - 5-A506 & 5-A507 @ 11"
- [2] - 6-A506 & 6-A507 @ 11"
- [3] - 6-A506 & 6-A507 @ 11" (+)
- [4] - 3-A506 & 1-A507 @ 14" (+)

- \* MINIMUM SLOPE OF PIPE IS 1/8"/FT.
- 6" NON-PERFORATED CORRUGATED PLASTIC PIPE (707.33, TYPE S)
- ▲ TYPE 2 WATER PROOFING 3'-0" WIDE CENTERED ON JOINT
- \*\* ELEVATIONS @ & BEARING

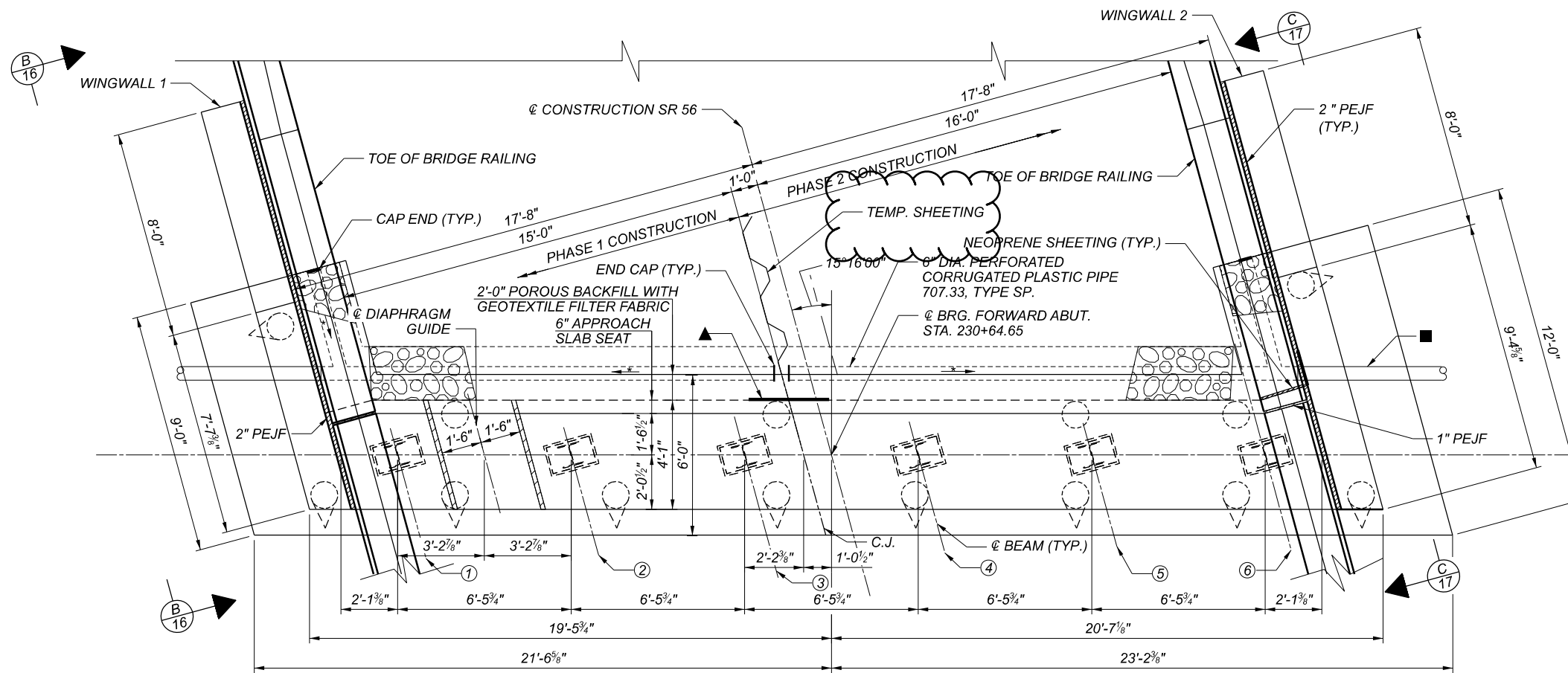
NOTES:

1. FOR DIAPHRAGM DETAILS, SEE SHEET 31 OF 37
2. FOR ADDITIONAL DETAILS NOT SHOWN, SEE STD. DWG. SICD-1-21
3. ABUTMENT DIAPHRAGM CONCRETE AND EXPANDED POLYSTYRENE FILLER OR REMOVABLE FORMS SHALL BE INCLUDED FOR PAYMENT WITH ITEM 511 CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN

REAR ABUTMENT PLAN AND ELEVATION  
 BRIDGE NO. MAD-071-08.044  
 SR 56 OVER IR 71

SFN	4901960
DESIGN AGENCY	BG
DESIGNER	RG
CHECKER	CCJ
REVIEWER	
PROJECT ID	107630
SUBSET	14
TOTAL	37
SHEET	759
TOTAL	1003





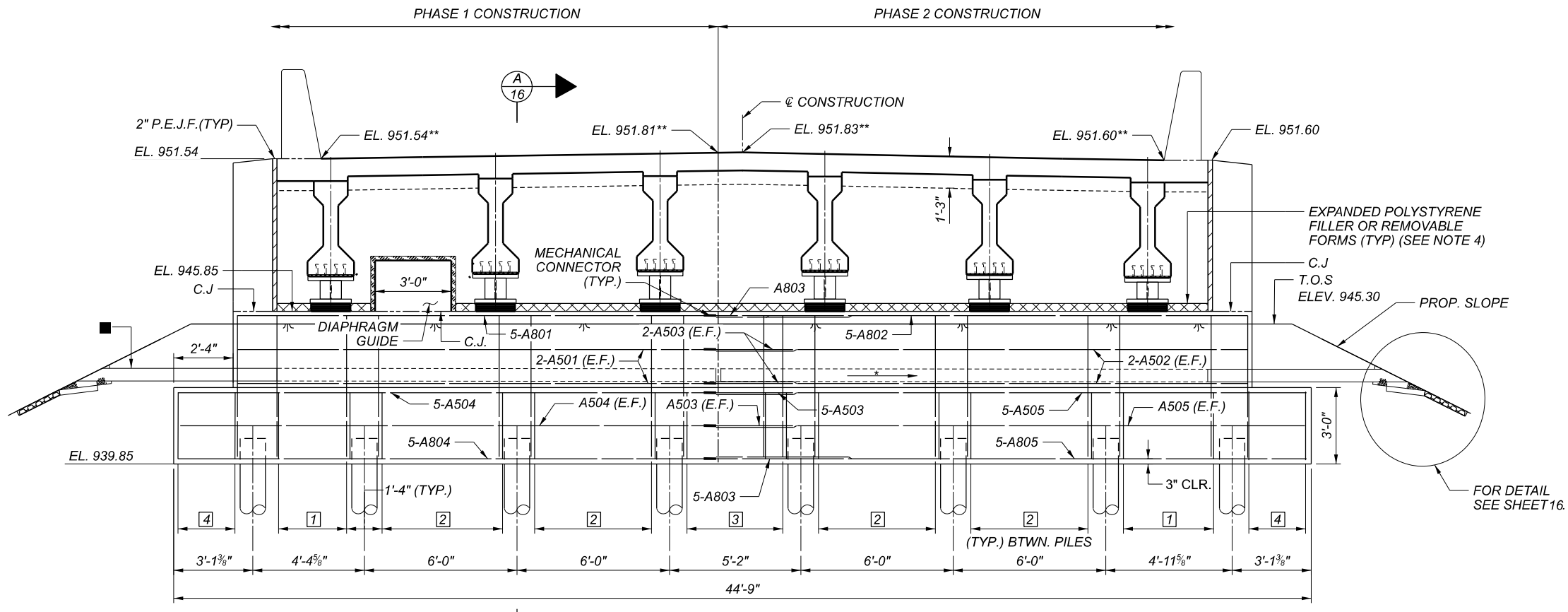
REQUIRED MIN. LAP LENGTH	
NO. 5 BAR	3'-0"
NO. 8 BAR	5'-4"

**LEGEND:**

- Ⓝ BEAM DESIGNATION
- ① 5-A506 & 5-A507 @ 11"
- ② 6-A506 & 6-A507 @ 11"
- ③ 6-A506 & 6-A507 @ 11" (+)
- ④ 3-A506 & 1-A507 @ 14" (+)
- \* MINIMUM SLOPE OF PIPE IS 1/8" FT.
- 6" NON-PERFORATED CORRUGATED PLASTIC PIPE (707.33, TYPE S)
- \*\* ELEVATIONS @ @ BEARING
- ▲ TYPE 2 WATER PROOFING 3'-0" WIDE CENTERED ON JOINT

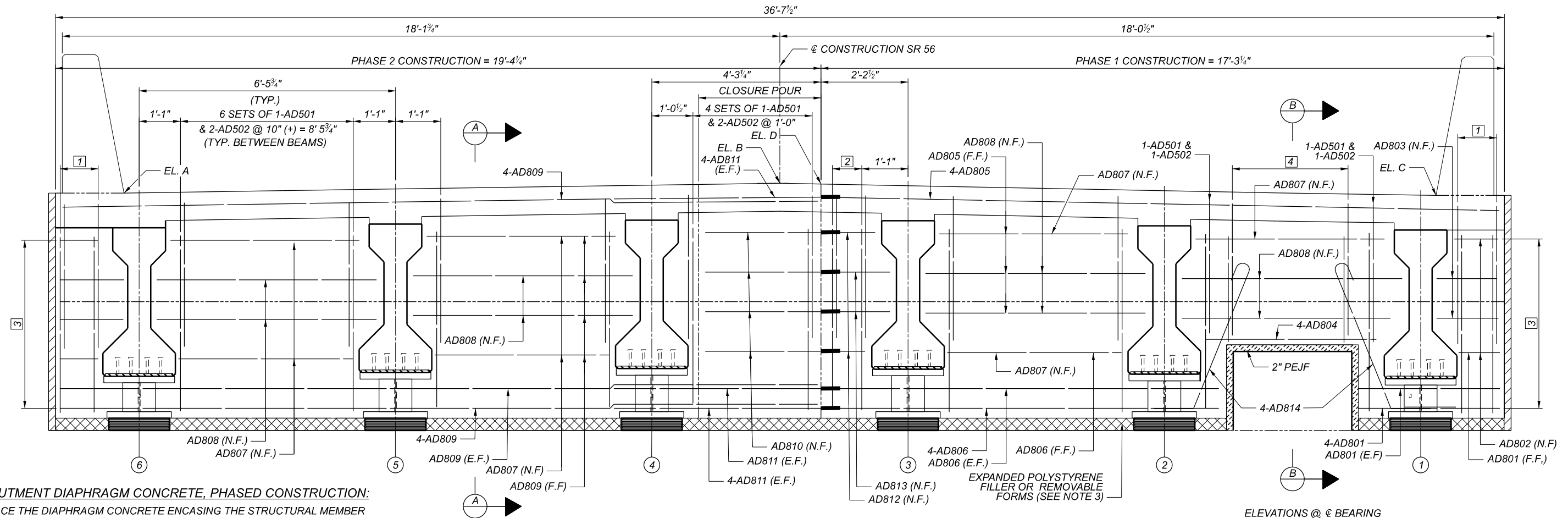
**NOTES:**

1. FOR DIAPHRAGM GUIDE DETAILS SHEET 31 OF 37
2. FOR ADDITIONAL DETAILS NOT SHOWN, SEE STD. DWG. SC1D-1-21
3. ABUTMENT DIAPHRAGM CONCRETE AND EXPANDED POLYSTYRENE FILLER OR REMOVABLE FORMS SHALL BE INCLUDED FOR PAYMENT WITH ITEM 511 CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN



FORWARD ABUTMENT PLAN AND ELEVATION  
 BRIDGE NO. MAD-071-08.044  
 SR 56 OVER IR 71

SFN 4901960	
DESIGN AGENCY	
DESIGNER	CHECKER
RG	CCJ
REVIEWER	
GTB 02-22-22	
PROJECT ID	
107630	
SUBSET	TOTAL
15	37
SHEET	TOTAL
760	1003



**ABUTMENT DIAPHRAGM CONCRETE, PHASED CONSTRUCTION:**

PLACE THE DIAPHRAGM CONCRETE ENCASING THE STRUCTURAL MEMBER ENDS OF AN INDIVIDUAL PHASE AFTER THE DECK PLACEMENT IN THE ADJACENT SPAN IS COMPLETE. PROCEDURES THAT PLACE THE ABUTMENT DIAPHRAGM WITH THE DECK CONCRETE MAY BE APPROVED BY THE ENGINEER IF THE PLACEMENT SUBMITTAL CAN ASSURE THAT THE DECK CONCRETE IN THE ADJACENT SPAN WILL BE PLACED BEFORE CONCRETE IN THE DIAPHRAGM HAS REACHED ITS INITIAL SET. PLACE CLOSURE POUR CONCRETE IN THE DIAHPRAGM AND DECK CONCURRENTLY.

**ABUTMENT DIAPHRAGM ELEVATION**

REAR ABUTMENT DIAPHRAGM SHOWN  
 FORWARD ABUTMENT IS SIMILAR  
 BUT OPPOSITE HAND

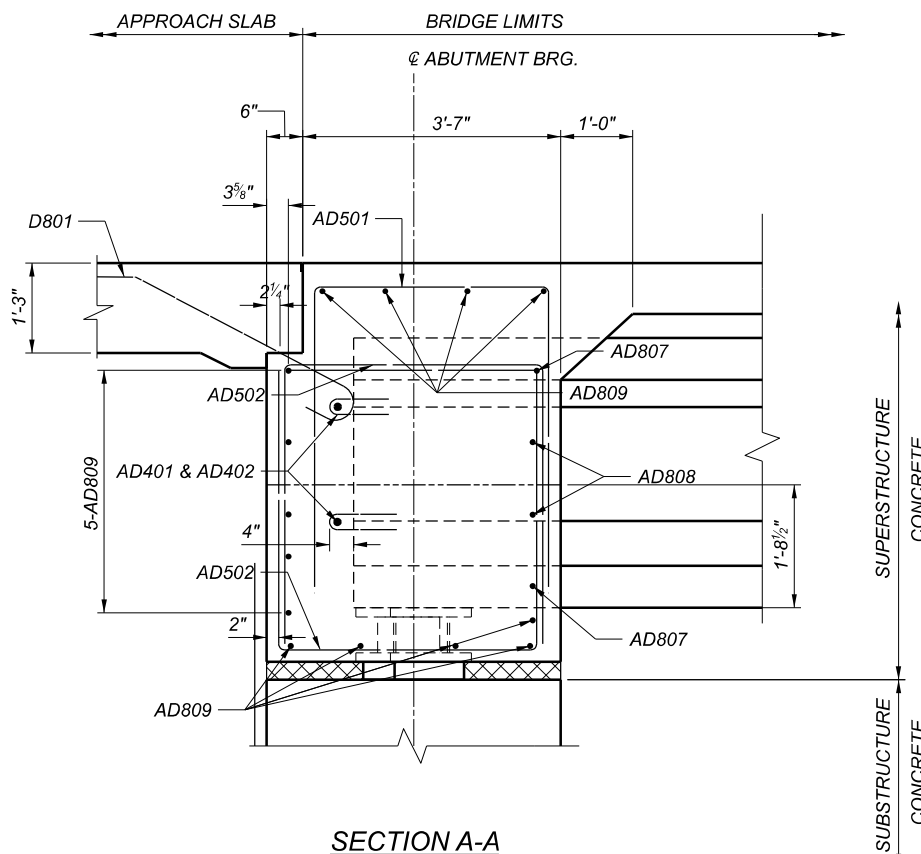
**LEGEND:**

- 1 2 SETS OF 1- AD501 & 2AD502
- 2 2 SETS OF 1-AD501 & 2 AD502
- 3 AD403 BARS LAPPED WITH AD809 OR AS801 AND AD805
- 4 4 SETS OF 1-AD501 & 2-AD503

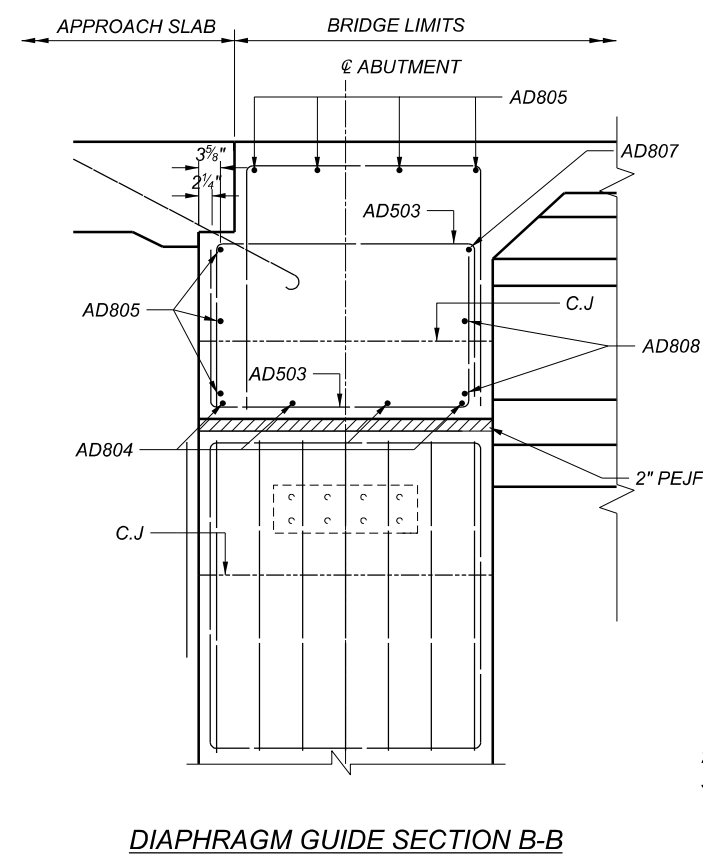
ELEVATIONS @  $\phi$  BEARING

BEAM LING DESIGNATION	A	B	C	D
R.A.	951.34	951.63	951.40	951.61
F.A.	951.54	951.83	951.60	951.81

# - BEAM LINE DESIGNATION



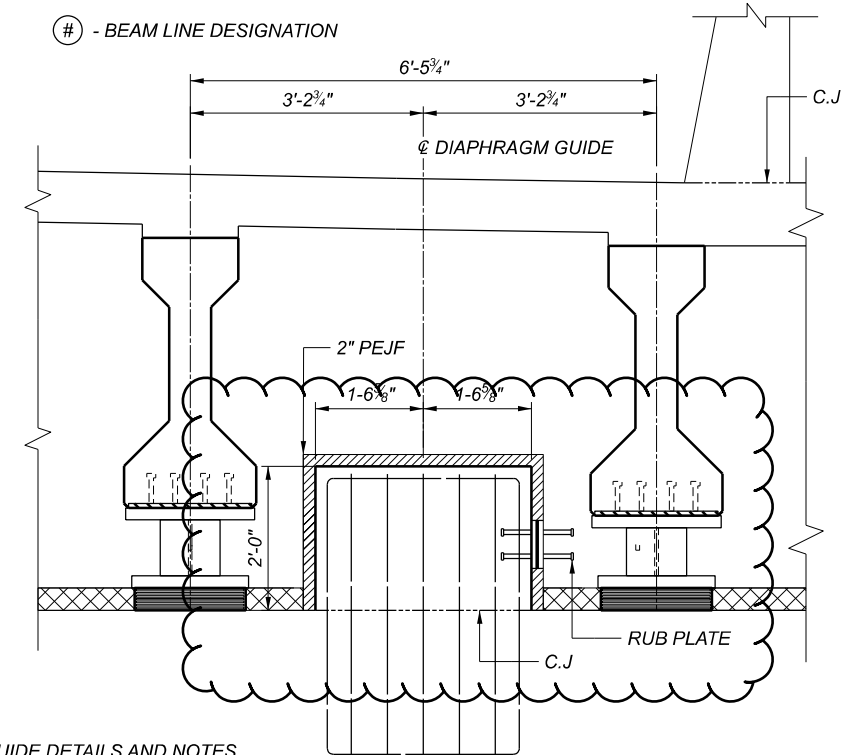
SECTION A-A



DIAPHRAGM GUIDE SECTION B-B

**NOTES:**

1. FOR ADDITIONAL DIAPHRAGM GUIDE DETAILS AND NOTES, SEE STANDARD DRAWING SICD-2-14
2. FOR ADDITIONAL DETAILS, REFER TO STD. DWG. PSID-1-13
3. ABUTMENT DIAPHRAGM CONCRETE AND EXPANDED POLYSTYRENE FILLER OR REMOVAL FORMS SHALL BE INCLUDED FOR PAYMENT WITH ITEM 511 CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN



ABUTMENT DIAPHRAGM GUIDE

MIN. LAP LENGTHS

NO. 8 BARS	5'-4"
------------	-------

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS						
					A	B	C	D	E	R	INC
<b>REAR ABUTMENT</b>											
A501*	4	18'-10"	79	STR							
A502	4	20'-11"	87	STR							
A503	11	3'-0"	34	STR							
A504*	7	21'-2"	155	STR							
A505	7	23'-3"	170	STR							
A506	59	17'-2"	1,056	3	5'-8"	2'-7"					
A507	42	19'-1"	836	3	3'-9"	5'-5 1/2"					
A508	1 SER. OF 6	4'-6" TO 8'-8"	41	STR							10"
A509	4	7'-4"	31	STR							
A510	4	7'-7"	32	STR							
A511	1 SER. OF 4	7'-4" TO 15'-1"	47	STR							2'-7"
A512	1 SER. OF 4	7'-7" TO 15'-5"	48	STR							2'-7 3/8"
A513	3	15'-1"	47	STR							
A514	3	15'-5"	48	STR							
A515	2 SER. OF 8	5'-11" TO 11'-3"	143	2	2'-6" TO 5'-2"	1'-2"	2'-6" TO 5'-2"				A = 4 5/8" C = 4 5/8"
A516	4	11'-2"	47	19	3'-0"	7'-9"	2'-7"				
A517	19	11'-3"	223	2	5'-2"	1'-2"	5'-2"				
A518	18	18'-11"	355	2	9'-0"	1'-2"	9'-0"				
A519	3	16'-11"	53	2	8'-0"	1'-2"	8'-0"				
A520	16	1'-6"	25	STR							
A521	1 SER. OF 5	10'-0" TO 11'-7"	56	STR							4 3/4"
A522	4	9'-0"	38	STR							
A523	5	8'-8"	45	STR							
A524	1 SER. OF 4	9'-0" TO 16'-7"	53	STR							2'-6 3/8"
A525	1 SER. OF 4	8'-8" TO 16'-3"	52	STR							2'-6 3/8"
A526	3	16'-7"	52	STR							
A527	3	16'-3"	51	STR							
A528	1	4'-6"	5	STR							
A529	1	11'-7"	12	STR							
A530	1	10'-0"	10	STR							
A801*	5	18'-10"	251	STR							
A802	5	20'-11"	279	STR							
A803	10	5'-4"	142	STR							
A804*	5	21'-2"	283	STR							
A805	5	23'-3"	310	STR							
A806	1 SER. OF 5	4'-6" TO 8'-8"	88	STR							1'-0 1/2"
A807	1 SER. OF 5	10'-0" TO 11'-7"	144	STR							4 3/4"
SUBTOTAL		5,428	ITEM 509 - EPOXY COATED REINFORCING STEEL								

**NOTES:**

- FOR GENERAL NOTES, SEE SHEETS 3/37 AND 4/37.
  - THE LETTER PREFIX INDICATES BAR LOCATION. THE BAR SIZE NUMBER IS SPECIFIED ON THE PLANS IN THE BAR MARK COLUMN. THE FIRST DIGIT WHERE THREE DIGITS ARE USED, AND THE TWO DIGITS WHEN FOUR DIGITS ARE USED INDICATES BAR SIZE NUMBER. ALL REINFORCING IS ASSUMED EPOXY COATED UNLESS OTHERWISE INDICATED BY A LETTER SUFFIX. IF A LETTER SUFFIX IS PROVIDED, IT INDICATES BAR OR BAR COATING TYPE. EXAMPLE: S601B  
 S: THE LOCATION OF THE BARS IN THE STRUCTURE (SUPERSTRUCTURE)  
 6: BAR SIZE DIMENSION NO. 6  
 01: SEQUENCE NUMBER  
 B: BLACK STEEL
- THE FOLLOWING IS A LIST OF BAR LOCATION PREFIXES:
- |                                |                      |
|--------------------------------|----------------------|
| S: SUPERSTRUCTURE              | RA: REAR ABUTMENT    |
| R: BRIDGE RAILING              | FA: FORWARD ABUTMENT |
| T: BRIDGE RAILING TRANSITION   | P: PIER              |
| RD: REAR ABUTMENT DIAPHRAGM    | DG: DIAPHRAGM GUIDE  |
| FD: FORWARD ABUTMENT DIAPHRAGM |                      |

MARK	NUMBER TOTAL	LENGTH	WEIGHT	TYPE	DIMENSIONS						
					A	B	C	D	E	R	INC
<b>FORWARD ABUTMENT</b>											
A501*	4	18'-10"	79	STR							
A502	4	20'-11"	87	STR							
A503	11	3'-0"	34	STR							
A504*	7	21'-2"	155	STR							
A505	7	23'-3"	170	STR							
A506	59	17'-2"	1,056	3	5'-8"	2'-7"					
A507	42	19'-1"	836	3	3'-9"	5'-5 1/2"					
A508	1 SER. OF 5	4'-6" TO 8'-8"	34	STR							1'-0 1/2"
A509	4	7'-4"	31	STR							
A510	4	7'-7"	32	STR							
A511	1 SER. OF 4	7'-4" TO 15'-1"	47	STR							2'-7"
A512	1 SER. OF 4	7'-7" TO 15'-5"	48	STR							2'-7 3/8"
A513	3	15'-1"	47	STR							
A514	3	15'-5"	48	STR							
A515	2 SER. OF 8	5'-11" TO 11'-3"	143	2	2'-6" TO 5'-2"	1'-2"	2'-6" TO 5'-2"				A = 4 5/8" C = 4 5/8"
A516	4	11'-2"	47	19	3'-0"	7'-9"	2'-7"				
A517	19	11'-3"	223	2	5'-2"	1'-2"	5'-2"				
A518	18	18'-11"	355	2	9'-0"	1'-2"	9'-0"				
A519	3	16'-11"	53	2	8'-0"	1'-2"	8'-0"				
A520	16	1'-6"	25	STR							
A521	5	10'-0"	52	STR							
A522	4	9'-0"	38	STR							
A523	5	8'-8"	45	STR							
A524	1 SER. OF 4	9'-0" TO 16'-7"	53	STR							2'-6 3/8"
A525	1 SER. OF 4	8'-8" TO 16'-3"	52	STR							2'-6 3/8"
A526	3	16'-7"	52	STR							
A527	3	16'-3"	51	STR							
A528	1	4'-6"	5	STR							
A529	1	11'-7"	133	STR							
A530	1	10'-0"	125	STR							
A801*	5	18'-10"	251	STR							
A802	5	20'-11"	279	STR							
A803	10	5'-4"	142	STR							
A804*	5	21'-2"	283	STR							
A805	5	23'-3"	310	STR							
A806	1 SER. OF 5	4'-6" TO 8'-8"	88	STR							1'-0 1/2"
A807	1 SER. OF 5	10'-0" TO 11'-7"	144	STR							4 3/4"
SUBTOTAL		5,653	ITEM 509 - EPOXY COATED REINFORCING STEEL								

THE FOLLOWING IS A LIST OF BAR LOCATION SUFFIXES:

- B: BLACK STEEL
- G: GFRP

- BAR DIMENSIONS ARE SHOWN OUT-TO-OUT UNLESS OTHERWISE NOTED. "STD." WRITTEN IN PLACE OF A DIMENSION INDICATES A STANDARD BAR BEND AT THE END OF THE BAR. STRAIGHT BARS ARE INDICATED BY "STR."

4. BAR MATERIAL:

- "STL" = GRADE 60 STEEL
- "GFRP" = GLASS FIBER REINFORCED POLYMER

- FOR BAR BENDING DIAGRAMS AND ADDITIONAL NOTES, SEE SHEET 37/37.

**LEGEND:**

- \* = BAR WITH MECHANICAL CONNECTOR

SFN	4901960
DESIGNER	C.C.J.
CHECKER	CCJ
REVIEWER	
GTB	02-22-22
PROJECT ID	107630
SUBSET	TOTAL
36	37
SHEET	TOTAL
781	1003

MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
<b>SUPERSTRUCTURE</b>											
S401	360		30'-0"	7,214	STR						
S402	36		9'-6"	228	STR						
S501*	572		16'-6"	9,844	STR						
S502	1156		3'-0"	3,617	STR						
S503	572		18'-6"	11,037	STR						
S504*	2 SER. OF 8		2'-0" TO 16'-6"	154	STR						2'-0 7/8"
S505	2 SER. OF 7		7'-7" TO 18'-6"	190	STR						1'-9 7/8"
S506	410		30'-0"	12,829	STR						
S507	41		20'-4"	870	STR						
S508*	2 SER. OF 6		7'-1" TO 16'-6"	148	STR						1'-10 5/8"
S509*	572		17'-1"	10,192	16	16'-6"					
S510	572		19'-1"	11,385	16	18'-6"					
S511	2 SER. OF 10		1'-0" TO 18'-6"	203	STR						1'-11 3/8"
S512	1144		8'-1"	9,645	2	6'-4"	6 1/2"	1'-6"			
S601	70		36'-0"	3,785	STR						
S802	35		39'-0"	3,645	STR						
			<b>SUBTOTAL</b>	<b>84,986</b>	<b>ITEM 509 - EPOXY COATED REINFORCING STEEL</b>						

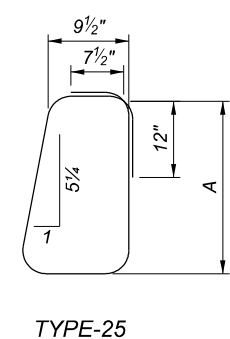
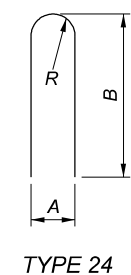
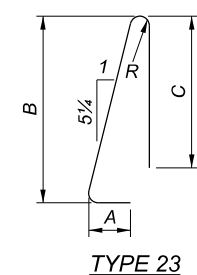
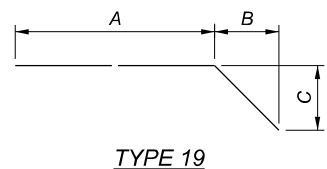
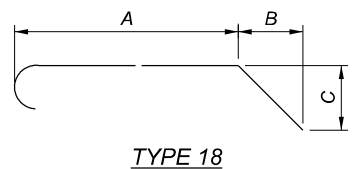
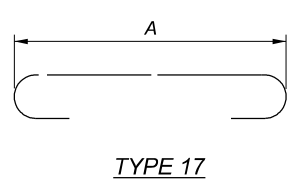
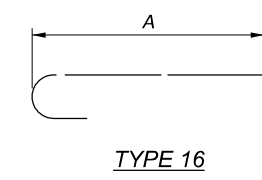
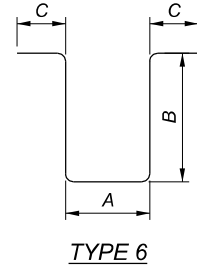
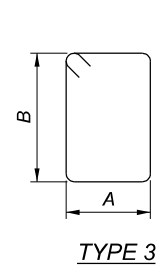
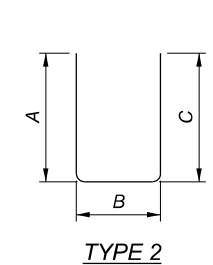
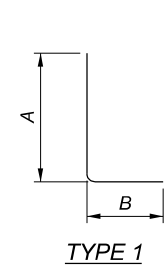
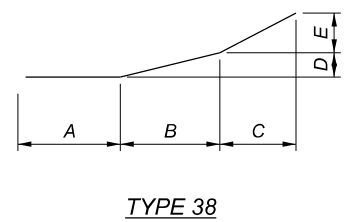
MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
<b>ABUTMENT DIAPHRAGM</b>											
AD401	24		3'-11"	63	24	4 1/2"	1'-8"				1 3/4"
AD402	24		4'-0"	64	STR						
AD403	24		5'-8"	91	2	1'-0"	3'-10"	1'-0"			
AD404	16		5'-2"	55	STR						
AD501	68		11'-0"	780	2	4'-0"	3'-3"	4'-0"			
AD502	120		11'-4"	1,418	2	3'-9"	4'-1"	3'-9"			
AD503	16		7'-5"	124	2	2'-0"	3'-8"	2'-0"			
AD801	12		3'-3"	104	STR						
AD802	4		1'-1"	12	STR						
AD803	4		1'-6"	16	STR						
AD804	8		4'-10"	103	STR						
AD805*	14		17'-1"	639	STR						
AD806*	14		10'-0"	374	STR						
AD807	14		4'-3"	159	STR						
AD808	16		5'-6"	235	STR						
AD809	28		19'-2"	1,433	STR						
AD810	8		3'-0"	64	STR						
AD811	20		5'-4"	285	STR						
AD812*	4		1'-1"	12	STR						
AD813*	4		1'-8"	18	STR						
AD814	8		5'-7"	119	18	3'-10"	5"	11"			
D801	50		4'-11"	656	18	2'-9"	1'-0"	1'-0"			
			<b>SUBTOTAL</b>	<b>6,824</b>	<b>ITEM 509 - EPOXY COATED REINFORCING STEEL</b>						

MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
<b>PIER DIAPHRAGM</b>											
PD401	90		11'-9"	706	6	1'-8"	4'-3"	1'-0"			
PD601	60		4'-8"	421	STR						
PD602	60		5'-6"	496	STR						
PD603	120		5'-10"	1,051	1	4'-0"	2'-0"				
			<b>SUBTOTAL</b>	<b>2,674</b>	<b>ITEM 509 - EPOXY COATED REINFORCING STEEL</b>						

MARK	NUMBER		LENGTH	WEIGHT	TOTAL LENGTH	TYPE	DIMENSIONS					
	TOTAL						A	B	C	D	E	R
<b>SUPERSTRUCTURE BRIDGE RAILING (GFRP REINFORCING BARS)</b>												
R401G	264		10'-0"	-	2640'-0"	STR						
R402G	24		6'-5"	-	154'-0"	25	2'-6"	2'-5"	1'-5"	1 1/2"	5"	
R403G	24		5'-1"	-	122'-0"	STR						
R404G	44		12'-1"	-	531'-8"	STR						
R405G	16		11'-0"	-	176'-0"	STR						
R406G	220		30'-0"	-	6600'-0"	STR						
R407G	16		10'-4"	-	165'-4"	STR						
			<b>SUBTOTAL</b>		<b>10389'-0"</b>	<b>NO. 4 GFRP DEFORMED BARS</b>						
<b>SUPERSTRUCTURE BRIDGE RAILING</b>												
R601	686		7'-0"	7,213		23	6"	3'-3"	3'-3"		2"	
R602	638		7'-1"	6,788		38	2'-2"					
R603	48		7'-8"	553		38	2'-5"					
R604	4 SER. OF 11		4'-4" TO 5'-2"	314		1	1'-0"	3'-6" TO 4'-4"			1"	
R605	32		4'-4"	208		1	1'-0"	3'-6"				
			<b>SUBTOTAL</b>	<b>15,076</b>	<b>ITEM 509 - EPOXY COATED REINFORCING STEEL</b>							

MARK	NUMBER		LENGTH	WEIGHT	TYPE	DIMENSIONS					
	TOTAL					A	B	C	D	E	R
<b>PIER</b>											
SP501	4		328'-2"	1,369	27	4 1/2"	2'-6"	14'-10"			
SP502	4		333'-4"	1,391	27	4 1/2"	2'-6"	15'-1"			
SP503	4		329'-10"	1,376	27	4 1/2"	2'-6"	14'-11"			
P501	294		12'-8"	3,884	3	2'-4"	3'-8"				
P502*	18		16'-2"	304	STR						
P503	18		3'-4"	63	STR						
P504	18		19'-4"	363	STR						
P601*	27		14'-8"	595	STR						
P602	27		4'-2"	169	STR						
P603	27		23'-8"	960	STR						
P604	108		11'-2"	1,811	STR						
P901*	27		17'-0"	1,561	1	14'-8"	2'-7"				
P902	75		8'-8"	2,210	STR						
P903	27		26'-0"	2,387	1	23'-8"	2'-7"				
P904*	24		14'-8"	1,197	STR						
P905*	24		18'-1"	1,476	1	14'-8"	3'-8"				
P906	24		19'-2"	1,564	STR						
P907	24		22'-7"	1,843	1	19'-2"	3'-8"				
P908	108		13'-8"	5,018	17	11'-2"					
P1001	120		18'-3"	9,424	16	16'-10"					
P1002	120		12'-1"	6,239	1	11'-5"	1'-0"				
			<b>SUBTOTAL</b>	<b>45,204</b>	<b>ITEM 509 - EPOXY COATED REINFORCING STEEL</b>						

BAR BENDING DIAGRAMS



MAD/PIC-71-7.30/0.00

MODEL: Sheet PAPER: 17x11 (in.) DATE: 2/9/2023 TIME: 8:11:07 AM USER: CJackman  
 P:\Transportation\Worksets\MAD-PIC-71-4.56-0.00-400-Engineering\Structures\SFN\_4903455\Sheets\107630\_SFN4903455\_S0001.dgn

DESIGN: GTB		DATE: 4/6/2022		ESTIMATED QUANTITIES							SFN: 4903455	
CHECK: CCJ		DATE: 4/8/2022										
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIER	SUPER.	GEN.	REFERENCE SHEET NO.			
202	11203	LUMP	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN				LUMP	2, 5, 6, 16, 21			
202	22900	156	SY	APPROACH SLAB REMOVED				156				
204	30010	20	CY	GRANULAR MATERIAL, TYPE B				20				
204	50000	313	SY	GEOTEXTILE FABRIC				313				
503	21101	535	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	447	88			2, 6, 14			
509	10000	103,072	LB	EPOXY COATED REINFORCING STEEL	7,914		95,158					
509	25000	642	LB	UNCOATED REINFORCING STEEL	642							
509	30020	10,588	FT	NO.4 GFRP DEFORMED BARS			10,588					
510	10001	164	EACH	DOWEL HOLES WITH NONSHRINK, NONMETTALIC GROUT, AS PER PLAN	164				2			
511	33501	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN	2				13			
511	34413	31	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN			31		7, 10			
511	34446	267	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK			267					
511	34451	103	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET), AS PER PLAN			103		24			
511	46210	31	CY	CLASS QC1 CONCRETE, RETAINING/WINGWALL INCLUDING FOOTING	31							
512	10100	1,001	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	88	211	703					
512	33000	8	SY	TYPE 2 WATERPROOFING	8							
513	20000	2,904	EACH	WELDED STUD SHEAR CONNECTORS			2,904					
513	95030	24	EACH	STRUCTURAL STEEL, MISC.: 2" DIA. FIELD DRILLED HOLES			24		16			
514	00050	11,900	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			11,900					
514	00056	11,900	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			11,900					
514	00060	11,800	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			11,800					
514	00066	11,800	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			11,800					
514	00504	19	MNHR	GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			19					
514	10000	12	EACH	FINAL INSPECTION REPAIR			12					
516	10010	70	LF	ARMORLESS PREFORMED JOINT SEAL	70							
516	13600	20	SF	1" PREFORMED EXPANSION JOINT FILLER	20							
516	13900	140	SF	2" PREFORMED EXPANSION JOINT FILLER	140							
516	14020	65	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	65							
516	44101	8	EACH	ELASTOMERIC BEARINGS WITH INTERNAL LAMINATES (11" X 14" X 2.948") AND LOAD PLATE (12" X 15" X 1.5") (NEOPRENE), AS PER PLAN	8				15			
516	47001	LUMP	LUMP	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN	LUMP				2			
518	21201	32	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC, AS PER PLAN	32				3			
518	40000	65	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	65							
518	40011	48	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS, AS PER PLAN	48				13			
519	00100	1,248	SF	SPECIAL - COMPOSITE FIBER WRAP SYSTEM (SEE PROPOSAL NOTE)		1,248			14			
526	25010	175	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")				175				
526	90031	66	FT	TYPE C INSTALLATION, AS PER PLAN				66	24			
601	20001	100	SY	CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN				100	3			
607	39900	570	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC			570					
625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM				1				
840	23000	227	CY	SELECT GRANULAR BACKFILL				227				
863	00100	971	SY	GEOGRID, TYPE P1				971				

ESTIMATED QUANTITIES  
 BRIDGE NO. MAD-00071-09.590  
 CR 54 OVER IR 71

SFN	4903455
DESIGN AGENCY	BG
DESIGNER	GTB
CHECKER	RG
REVIEWER	CCJ
PROJECT ID	107630
SUBSET	4
TOTAL	26
SHEET	786
TOTAL	1003

