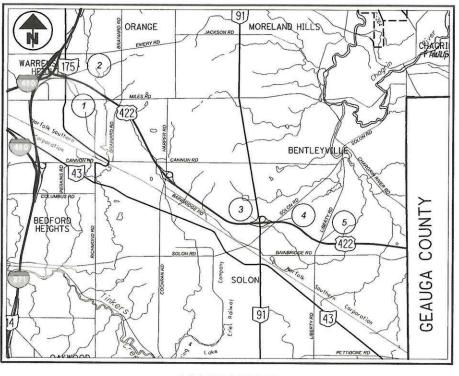
Paint

**CUY-422-13.90/VAR PAINT** 



## **LOCATION MAP**

LATITUDE: 41°23'41.48" LONGITUDE: 81°26'16.19" NOTE: FOR COORDINATES PER LOCATION, SEE SHEET 2.

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

## **DESIGN EXCEPTIONS**

NONE REQUIRED

## ADA DESIGN WAIVERS

NONE REQUIRED



PLAN PREPARED BY:





	SHEETS 4 TO 10	
	TONY W. GRIESHOP E-70196  **GOISTERED STONAL ENGINEERS	0.0000000000000000000000000000000000000
SIGNED:	The late	

SIGNED:	s	SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS	
DATE:11/17/2021	GSD-1-19 1/15/21		SS800 10/15/21	
ENGINEEDIO OF M			SS821 4/20/12	
ENGINEER'S SEAL:	MT-95.30 7/19/19		SS921 4/20/12	
FOR ENTIRE PLAN EXCEPT	MT-95.31 7/19/19		SS961 4/17/20	
SHEETS OTHERWISE NOTED	MT-95.32 4/19/19			
Sec. 100	MT-96.11 4/16/21			
	MT-96.20 7/15/16			
/ P/ DAVIN \C\	MT-96.26 1/18/19			
NG P	MT-97.10 4/19/19			
101,0000 /31	MT-98.22 1/17/20			
	MT-105.10 1/17/20			
	MT-110.10 7/19/13			
M				
	TC-42.20 10/18/13			
SIGNED:	TC-52.10 10/18/13			
DATE: 11/19/2021	TC-52.20 1/15/21			

# **STATE OF OHIO DEPARTMENT OF TRANSPORTATION** CUY-422-13.90/VAR PAINT

LOCATION	BRIDGE NUMBER	STRUCTURAL FILE NUMBER	CITY
1	CUY-422-1390R CUY-480-0140WE	1814745 1814753	WARRENSVILLE HEIGHTS
2	CUY-422-1390L	1814788	WARRENSVILLE HEIGHTS
3	CUY-422-1804L/R	1814923 1814931	SOLON
4	CUY-422-1827L/R	1814958 1814966	SOLON
5	CUY-422-1911L/R	1815172 1815180	SOLON

## INDEX OF SHEETS:

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LOCATION 1 - CUY-422-1390R & CUY-480-0140WE	14 - 15
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## FEDERAL PROJECT NUMBER

E191 (785)

## RAILROAD INVOLVEMENT

NONE

## **PROJECT DESCRIPTION**

PAINT THE STRUCTURAL STEEL ON MULTIPLE MAINLINE BRIDGES ALONG US-422 CORRIDOR: CUY-422-1390L/R, CUY-480-0140WE, CUY-422-1804L/R, CUY-422-1827L/R,

## EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 0.0 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.0 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: N/A

## **2019 SPECIFICATIONS**

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

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

APPROVED.

DATE / 18/2022 DIRECTOR, DEPARTMENT OF TRANSPORTATION



ATR OGN 11-19-21

ROJECT ID 105260

## LOCATION 1 - CUY-422-1390R & CUY-480-0140WE

SFN: 1814745 (1390R), 1814753 (0140WE) 3-SPAN CONTINUOUS STEEL (1390R) 3-SPAN CONTINUOUS STEEL (0140WE) LATITUDE: 41°25'45.57" N LONGITUDE: 81°29'52.36" W

## **LOCATION 2 - CUY-422-1390L**

SFN: 1814788 3-SPAN CONTINUOUS STEEL LATITUDE: 41°25'47.20" N LONGITUDE: 81°29'52.31" W

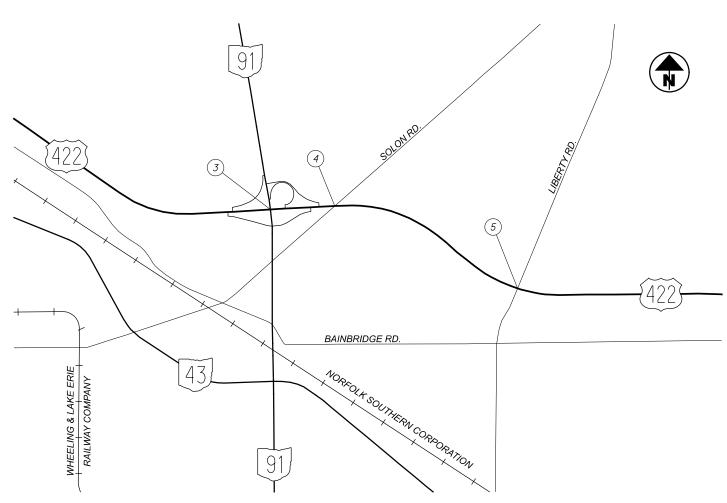
## **LOCATION 3 - CUY-422-1804L/R**

SFN: 1814923 (LT.), 1814931 (RT.) 3-SPAN CONTINUOUS STEEL (LT.) 3-SPAN CONTINUOUS STEEL (RT.) LATITUDE: 41°23'41.48" N LONGITUDE: 81°26'16.19" W

## <u>LOCATION 4 - CUY-422-1827L/R</u> SFN: 1814958 (LT.), 1814966 (RT.)

3-SPAN CONTÌNUOUS STEEL (LT.) 3-SPAN CONTINUOUS STEEL (RT.) LATITUDE: 41°23'41.97" N LONGITUDE: 81°25'58.75" W

LOCATION 5 - CUY-422-1911L/R SFN: 1815172 (LT.), 1815180 (RT.) 3-SPAN CONTINUOUS STEEL (LT.) 3-SPAN CONTINUOUS STEEL (RT.) LATITUDE: 41°23'24.69" N LONGITUDE: 81°25'09.27" W





MOJ DGN 11-19-21 105260

## UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS:

ODOT D12

5500 TRANSPORTATION BLVD.

GARFIELD HEIGHTS, OH 44125

PUBLIC WORKS TERRITORIES -

13630 LORAIN AVE., 2ND FLOOR

CHARTER COMMUNICATIONS

THE ILLUMINATING COMPANY

6896 MILLER RD., SUITE 101

BRECKSVILLE OH 44141

ATTN: JOHN M. ZASSICK

PHONE: (440) 546-8706

CLEVELAND, OH 44111

PHONE: (216) 476-6057

ATTN: SCOTT KLEBE

7820 DIVISION DR.

MENTOR, OH 44060

ATTN: EMIL C. SYMISTER

PHONE: (440) 343-1530

AT&T OHIO

ATTN: STEVEN SASALA

PHONE: (216) 584-2181

CEI FIRST ENERGY

ODOT D12 5500 TRANSPORTATION BLVD. GARFIELD HEIGHTS, OH 44125 ATTN: KEITH HAMILTON PHONE: (216) 584-2220

#### **ELECTRIC**

CEI FIRST ENERGY PUBLIC WORKS TERRITORIES -THE ILLUMINATING COMPANY 7755 AUBURN RD. CONCORD, OH 44077 ATTN: FREDRICK E. RANDOLPH PHONE: (440) 358-4991

## COMMUNICATIONS

AT&T OHIO 13630 LORAIN AVE., 2ND FLOOR CLEVELAND, OH 44111 ATTN: JAMES JANIS PHONE: (216) 476-6142

CHARTER COMMUNICATIONS 578 TERNES LN. ELYRIA, OH 44035 ATTN: DAVID SOBOTKA PHONE: (216) 854-0899

EVERSTREAM 1228 EUCLID AVE., SUITE 250 CLEVELAND, OH 44115 ATTN: STACEY DASHER PHONE: (216) 408-9205

VERIZON 12300 RIDGE RD. NORTH ROYALTON, OH 44133 ATTN: DAN ARZ PHONE: (440) 457-4832

#### GAS

DOMINION ENERGY OHIO 320 SPRINGSIDE DR., SUITE 320 AKRON, OH 44333 ATTN: GREGORY R. TOMPKINS PHONE: (330) 664-2409

## WATER

CITY OF CLEVELAND DIVISION OF WATER 1201 LAKESIDE AVE. CLEVELAND, OH 44114 ATTN: FRED ROBERTS PHONE: (216) 664-2444 X75590 ONE CALL CONCEPTS LOCATING SERVICES, INC. 12438 PLAZA DR. PARMA, OH 44130 ATTN: WILLIAM HUNT III PHONE: (216) 645-5051

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

## **WORK LIMITS**

ALL WORK SHALL BE WITHIN THE EXISTING RIGHT-OF-WAY, AND NO WORK SHALL TAKE PLACE IN STREAMS, WETLANDS, OR POLLINATOR INITIATIVE SITES.

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

## **EXISTING STRUCTURE VERIFICATION**

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURES AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURES AND THE PROPOSED WORK BUT SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO SECTIONS 102.05, 105.02, AND 513.04 OF THE 2019 CONSTRUCTION AND MATERIAL SPECIFICATIONS. BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PRE-BID EXAMINATION OF THE EXISTING STRUCTURES BY THE CONTRACTOR.

THE EXISTING STRUCTURE PLANS MAY BE REVIEWED AT THE

OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 12 OFFICE 5500 TRANSPORTATION BOULEVARD GARFIELD HEIGHTS, OH 44125

OR

HTTP://WWW.DOT.STATE.OH.US/DIVISIONS/CONTRACTADMIN/CONTRACTS/PAGES/ DESIGNFILES.ASPX

## STAGING AREA ON/WITHIN STATE RIGHT-OF-WAY

THERE ARE NO SPECIFIC AREAS GIVEN IN THE PLANS FOR THE CONTRACTOR TO USE AS STAGING AREAS. STAGING ANYWHERE WITHIN THE U.S. 422 / S.R. 91 INFIELDS IS PROHIBITED. IF THE CONTRACTOR WANTS TO USE ANY OTHER AREA FOR STAGING, REGARDLESS IF IT FALLS WITHIN THE PROJECT LIMITS OR NOT, THE CONTRACTOR IS TO CONTACT MELVIN STAFFORD AT 216-584-2137 AT DISTRICT 12 IN ORDER TO APPLY FOR A PERMIT PER SECTION 107.02 OF THE C&MS. IF A PERMIT IS GRANTED, ALL CONDITIONS OF THE PERMIT SHALL BE MET IN ADDITION TO THE REQUIREMENTS OF 104.04 OF THE C&MS, AT NO COST TO THE STATE. IF THE PROJECT ENGINEER DEEMS THAT ALL THE CONDITIONS OF THE PERMIT WERE NOT MET, THEN 10% OF THE CONTRACT BID AMOUNT FOR MOBILIZATION SHALL BE WITHHELD UNTIL ALL CONDITIONS OF THE PERMIT ARE SATISFIED.

## **EQUIPMENT AND MATERIAL STORAGE**

IN ORDER TO PROVIDE FOR THE SAFETY OF THE TRAVELING PUBLIC THE CONTRACTOR'S ATTENTION IS DIRECTED TO C&MS 614.035. IN ADDITION, THE FOLLOWING PROVISIONS SHALL

- ANY REMOVED ITEMS SHALL NOT BE STORED ON THE RIGHT OF WAY FOR MORE THAN THIRTY DAYS
- ALL DISTURBED AREAS SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT NO EXPENSE TO THE STATE

## R/W FENCE

R/W FENCES EXIST AT LOCATIONS 1, 2, 4, AND 5. ANY EXISTING FENCE DISTURBED BY THE CONTRACTOR FOR THEIR OPERATIONS SHALL BE CAREFULLY REMOVED AND REINSTALLED. ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO PERFORM THE WORK ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 – MAINTAINING TRAFFIC. ANY FENCE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT NO ADDITIONAL COST

## ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN

TREES AND OTHER VEGETATION SHOWN ON THE SITE PLANS ARE INDICATIVE OF CONDITIONS AT THE TIME OF EXISTING PLAN DEVELOPMENT AND MAY NOT REPRESENT ACTUAL CONDITIONS. HOWEVER, THE SITE PLANS HAVE BEEN SUPPLEMENTED WITH CURRENT TREE LOCATIONS AND SIZES (>6" DBH) IN THE VICINITY OF THE BRIDGES AND JUST OUTSIDE OF THE CONSTRUCTION LIMITS. ALL TREES (>6" DBH) WITHIN THE CONSTRUCTION LIMITS (NOT SHOWN ON THE SITE PLANS) WILL BE FELLED AND REMOVED BY OTHERS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL TRIM ALL REMAINING BRANCHES THAT ARE WITHIN 10'-0" OF ANY LOCATION TO HAVE A PAINTED SURFACE AND CLEAR/REMOVE ALL BRANCHES AND BRUSH WITHIN THE SAME LIMITS. NO TREE REMOVAL BY THE CONTRACTOR IS ALLOWED. GRUBBING, SCALPING, AND STUMP REMOVAL ARE NOT REQUIRED.

ALL WORK DESCRIBED ABOVE SHALL BE INCLUDED UNDER THE LUMP SUM BID FOR ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN.

## ITEM 623 - CONSTRUCTION LAYOUT STAKES, AS PER PLAN

AN OHIO PROFESSIONAL SURVEYOR SHALL DETERMINE THE MINIMUM VERTICAL CLEARANCES OF ALL EXISTING AND NEW BRIDGES WITHIN THE PROJECT LIMITS. AT A MINIMUM, MEASUREMENTS SHALL BE TAKEN ALONG EACH FASCIA BEAM AT THE EDGE OF SHOULDERS, EDGE LINES, LANE LINES, AND CROWN OF THE ROADWAY BELOW. THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM SHALL BE USED, WHERE APPLICABLE, TO DOCUMENT THE MEASUREMENTS, WHERE THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM IS NOT APPLICABLE, THE MEASUREMENTS SHALL BE DOCUMENTED ON A CONTRACTORDEVELOPED FORM THAT CLOSELY RESEMBLES THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM AND ACCURATELY DEPICTS THE BRIDGE AND BELOW LANE AND SHOULDER CONFIGURATION. THE COMPLETED FORM SHALL BEAR THE STAMP OR SEAL OF THE OHIO PROFESSIONAL SURVEYOR WHO HAS TAKEN THE MEASUREMENTS AND SHALL BE SUBMITTED TO THE PROJECT ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.

THE ODOT DISTRICT 12 VERTICAL CLEARANCE SURVEY FORM CAN BE DOWNLOADED FROM THE FOLLOWING WEBSITE:

HTTP://WWW.DOT.STATE.OH.US/DISTRICTS/D12/HIGHWAYMANAGEMENT/PAGES/PERMITS.ASPX

## ITEM 832 - EROSION CONTROL

ALTHOUGH NO SPECIFIC EROSION CONTROL MEASURES OR PROJECT SITE PLANS HAVE BEEN INCLUDED IN THESE PLANS, THE FOLLOWING QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 832 - EROSION CONTROL <u>5,000</u> EACH

## ENDANGERED BAT HABITAT REMOVAL

THE PROJECT IS LOCATED WITHIN THE KNOWN HABITAT RANGES OF THE FEDERALLY LISTED AND PROTECTED INDIANA BAT AND NORTHERN LONG-EARED BAT. NO TREES SHALL BE REMOVED UNDER THIS PROJECT FROM APRIL 1 THROUGH SEPTEMBER 30. ALL NECESSARY TREE REMOVAL SHALL OCCUR FROM OCTOBER 1 THROUGH MARCH 31. THIS REQUIREMENT IS NECESSARY TO AVOID AND MINIMIZE IMPACTS TO THESE SPECIES AS REQUIRED BY THE ENDANGERED SPECIES ACT. FOR THE PURPOSES OF THIS NOTE, A TREE IS DEFINED AS A LIVE, DYING, OR DEAD WOODLY PLANT, WITH A TRUNK THREE INCHES OR GREATER IN DIAMETER AT A HEIGHT OF 4.5 FEET ABOVE THE GROUND SURFACE, AND WITH A MINIMUM HEIGHT OF 13 FEET.

DESIGN AGENC



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3 TOTAL 30

## ITEM 614 - MAINTAINING TRAFFIC

GENERALLY, THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS AS TO MAKE THE PROPOSED REPAIR WITH A MINIMUM OF HAZARD. DELAY. AND INCONVENIENCE TO THE MOTORISTS USING THE HIGHWAY AFFECTED BY THE WORK ZONE UNDER THIS CONTRACT. IN ADDITION TO THE CONSTRUCTION AND MATERIAL SPECIFICATIONS THE FOLLOWING SPECIFIC PROVISIONS ARE MANDATORY.

#### NOTIFICATION

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE (SEE NEXT COLUMN) TO INFORM THE FOLLOWING:

DISTRICT PUBLIC INFORMATION OFFICER BY EMAIL AT (D12.PUBLIC.INFROMATION@DOT.OHIO.GOV)

DISTRICT PERMIT SECTION BY EMAIL AT (DISTRICT12.PERMITS@DOT.OHIO.GOV)

CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY EMAIL AT (HAULING.PERMITS@DOT.OHIO.GOV)

CITY OF SOLON ENGINEERING DEPARTMENT JOHN J. BUSCH, PE PHONE: 440-349-6745 JBUSCH@SOLONOHIO.ORG

CITY OF SOLON POLICE DEPARTMENT RICHARD TONELLI, CHIEF PHONE: 440-248-1234 EMAIL: RTONELLI@SOLONOHIO.ORG

CITY OF SOLON FIRE DEPARTMENT MARK VEDDER, CHIEF

PHONE: 440-349-6333 EMAIL: FIRECHIEF@SOLONOHIO.ORG

SOLON BOARD OF EDUCATION DEBBIE SIEGEL

PHONE: 440-248-1600

CITY OF WARRENSVILLE HEIGHTS PUBLIC SERVICE DEPARTMENT

TED SIMS. SERVICE DIRECTOR

PHONE: 216-587-6570

EMAIL: TSIMS@CITYOFWARRENSVILLE.COM

CITY OF WARRENSVILLE HEIGHTS POLICE DEPARTMENT

WESLEY HAYNES, CHIEF PHONE: 216-581-1234

EMAIL: WHAYNES@,CITYOFWARRENSVILLE.COM

CITY OF WARRENSVILLE HEIGHTS FIRE DEPARTMENT HERB WAUGH, CHIEF

PHONE: 216-587-6525

EMAIL: HWAUGH@CITYOF WARRENSVILLE.COM

WARRENSVILLE HEIGHTS BOARD OF EDUCATION SAVANNAH HECK, COMMUNICATIONS COORDINATOR

PHONE: 216-364-1006

EMAIL: SAVANNAH.HECK@WHCSD.ORG

THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT. DETOUR ROUTES. IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

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

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

## LANE CLOSURE RESTRICTIONS

1. ALL LANE CLOSURE MAY ONLY BE IMPLEMENTED AT THE TIMES PERMITTED BY THE "DISTRICT 12 PERMITTED LANE CLOSURE TIMES" LIST, WHICH IS LOCATED AT THE ODOT WEBSITE:

HTTPS://WWW.DOT.STATE.OH.US/DISTRICTS/D12/ HIGHWAYMANAGEMENT/PAGES/ PERMITTEDLANECLOSURES.ASPX

THE LATEST REVISION, AT 14 DAYS PRIOR TO THE BID DATE, SHALL BE IN EFFECT FOR THIS PROJECT.

NO LANE OR SHOULDER CLOSURES SHALL BE IN PLACE WHEN NO WORK IS BEING PERFORMED, UNLESS DIRECTED BY THE ENGINEER. SHOULDER CLOSURES SHALL ONLY BE ALLOWED AT THE TIME SPECIFIED FOR LANE CLOSURES.

ANY ROADWAY NOT LISTED SHALL NOT HAVE ANY LANE CLOSURES ON WEEKDAYS FROM 6:30 AM TO 9:00 AM AND 3:00 PM TO 6:00 PM. CONTACT TROY ONESTI, DISTRICT 12 WORK ZONE TRAFFIC MANAGER, AT (216) 584-2204 IF THERE ARE ANY QUESTIONS.

ALL NOTES ON THE PERMITTED LANE CLOSURE TIMES SHALL BE PART OF THE PROJECT.

- UNLESS OTHERWISE NOTED, EXIT AND ENTRANCE RAMP LANES SHALL REMAIN OPEN AT ALL TIMES AND EXHIBIT A MINIMUM WIDTH OF ELEVEN (11) FEET.
- 3. MAINTENANCE OF TRAFFIC SHALL FOLLOW THE INSTRUCTION OF THE STANDARD CONSTRUCTION DRAWINGS LISTED ON THE TITLE SHEET AND THE LATEST REVISION OF THE OMUTCD.

- 4. PEDESTRIAN TRAFFIC SHALL BE PERMITTED AND ACCOMMODATED ON AT LEAST ONE SIDE AT A TIME AT LOCATIONS WHERE PEDESTRIAN TRAFFIC IS CURRENTLY MAINTAINED.
- ALL DRIVES SHALL BE MAINTAINED

## LOCATION 1 (CUY-422-1390R & CUY-480-0140WE): LOCATION 2 (CUY-422-1390L):

THE CONTRACTOR SHALL STORE PAINTING EQUIPMENT ALONG SR 175 (RICHMOND STREET). PAINTING IS TO BE PERFORMED DURING THE WEEKEND (FRIDAY 8PM TO MONDAY 8AM). ALL LANES OF TRAFFIC ON SR 175 SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING PAINTING OPERATION WHEN A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED. PEDESTRIANS SHALL MAINTAINED AND DETOURED TO THE OPPOSITE SIDE PER SCD MT-110.10.

## LOCATION 3 (CUY-422-1804L/R):

THE CONTRACTOR SHALL STORE PAINTING EQUIPMENT ALONG SR 91 (SOM CENTER ROAD). PAINTING IS TO BE PERFORMED DURING THE WEEKEND (FRIDAY 8PM TO MONDAY 8AM). ALL LANES OF TRAFFIC ON SR 91 SHALL BE MAINTAINED AT ALL TIMES EXCEPT DURING PAINTING OPERATION WHEN A MINIMUM OF ONE LANE OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED. RAMPS SHALL BE MAINTAINED AT ALL TIMES PEDESTRIANS SHALL MAINTAINED AND PROTECTED DURING PAINTING OPERATIONS. CROSS FRAME REPAIRS SHALL MADE MONDAY THRU FRIDAY BETWEEN THE HOURS OF 9AM TO 3PM UTILIZING LANES CLOSURES. RAMPS SHALL BE MAINTAINED AT ALL TIMES.

#### LOCATION 4 (CUY-422-1827L/R):

THE CONTRACTOR SHALL STORE PAINTING EQUIPMENT ALONG CR 51 (SOLON ROAD). PAINTING IS TO BE PERFORMED BETWEEN THE HOURS OF 8AM TO 8PM. NO WORK IS TO BE PERFORMED ON SUNDAY. ONE LANE TWO-WAY TRAFFIC SHALL BE MAINTAINED UTILIZING TEMPORARY SIGNALS PER SCD MT-96.11, MT-96.20 AND SHEETS 7-8. TWO WAY TRAFFIC SHALL BE MAINTAINED ON ERICO DRIVE AT ALL TIMES.

## LOCATION 5 (CUY-422-1911L/R):

THE CONTRACTOR SHALL STORE PAINTING EQUIPMENT ALONG CR 148 (LIBERTY ROAD). PAINTING IS TO BE PERFORMED BETWEEN THE HOURS OF 8AM TO 8PM. NO WORK IS TO BE PERFORMED ON SUNDAY. ONE LANE TWO-WAY TRAFFIC SHALL BE MAINTAINED UTILIZING TEMPORARY SIGNALS PER SCD MT-96.11, MT-96.20 AND SHEETS 9-10.

## MAINTENANCE OF TRAFFIC SYSTEMS

WHEN REQUIRED

WHENEVER ANY PART OF THE TRAVELED SURFACE IS BEING WORKED UPON OR IS OTHERWISE NOT SUITABLE FOR SAFE AND CONVENIENT USE BY VEHICLES, TRAFFIC CONTROL DEVICES SUFFICIENT TO PROTECT SUCH AREAS TO ASSURE THE SAFE AND CONVENIENT PASSAGE OF VEHICULAR TRAFFIC SHALL BE INSTALLED AND MAINTAINED. SUCH TRAFFIC CONTROL DEVICES AND THE MANNER IN WHICH THEY ARE USED SHALL BE CONSISTENT WITH THESE PLANS AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, HEREINAFTER REFERRED TO AS THE "MANUAL". THE TRAFFIC CONTROL DEVICE SYSTEM SHALL CONSTITUTE THE MINIMUM PROVISIONS FOR TRAFFIC CONTROL FOR EACH PARTICULAR SITUATION. WHENEVER THE ENGINEER DEEMS IT NECESSARY ESPECIALLY WHERE A GRADE, CURVE. OR MERGE CONDITIONS EXISTS. HE MAY DIRECT THAT ADDITIONAL OR ALTERNATIVE DEVICES BE USED.

#### CONDITIONS

DURING ALL PARTS OF THIS PROJECT FLAGGERS SIGNING, BARRICADES, FLASHING ARROWS, ETC. SHALL BE LOCATED AS INDICATED IN THE "MANUAL" OR AS SHOWN IN THE STANDARD DRAWINGS.

#### ADVANCE WARNING SIGNS

ALL ADVANCE WARNING SIGNS FOR ANY CONDITIONS WHICH RESTRICTS TRAFFIC SHALL BE ERECTED BEFORE ANY SUCH RESTRICTION IS PUT INTO EFFECT. ALL SUCH SIGNS SHALL BE COVERED OR REMOVED FROM THE VIEW OF TRAFFIC WHENEVER THEY ARE NOT APPLICABLE.

#### FLAGGERS

AT LEAST ONE FLAGGER IS REQUIRED FOR CLOSURE. THE CONTRACTOR SHALL FURNISH ADDITIONAL FLAGGERS AS DIRECTED BY THE ENGINEER.

PROTECTION OF PUBLIC

PERSONAL CARS SHALL NOT BE PARKED WITHIN THE RIGHT OF WAY.

6. FAILURE TO COMPLY

IF THERE IS ANY FAILURE TO COMPLY WITH PROVISIONS OF THE "MANUAL", THE HIGHWAY IN THE VICINITY OF THE WORK AREA SHALL NOT BE CONSIDERED IN A CONDITION FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC. ANY FAILURE TO KEEP THE HIGHWAY, IN THE VICINITY OF THE WORK AREA, IN A CONDITION FOR THE SAFE AND CONVENIENT USE BY THE TRAVELING PUBLIC SHALL BE CONSIDERED A BREACH OF THIS CONTRACT. WORK SHALL BE SUSPENDED UNTIL THE CONTRACTOR COMPLIES WITH THE PROVISIONS OF THE AFOREMENTIONED ITEMS.

## IV. MAINTENANCE OF TRAFFIC MATERIALS

SIGN DIMENSIONS AND SPECIFICATIONS, INCLUDING LETTER SIZES ARE TO BE AS PROVIDED IN THE "MANUAL", OR IN DESIGN DRAWINGS PROVIDED BY THE DEPARTMENT OF TRANSPORTATION. THE SIGNS SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER PRIOR TO THE START OF THE PROJECT.

SIGN SUPPORT

SIGN SUPPORTS SHALL BE OF SUFFICIENT SIZE AND MASS AS TO SUPPORT THE SIGNS AT THE APPROPRIATE HEIGHT. SUPPORTS SHALL BE AS SHOWN ON THE STANDARD DRAWINGS.

3. FLASHING ARROW REQUIREMENT

WHENEVER ANY PART OF THE TRAVELED SURFACE IS CLOSED. THE MOTORISTS SHALL BE WARNED AND DIRECTED BY THE CONTRACTOR THROUGH THE USE OF ONE FLASHING ARROW PANEL FOR EACH LANE CLOSED. THE CONTRACTOR SHALL REFER TO SUPPLEMENTAL SPECIFICATION 821, 921 AND THE PROVISIONS SET FORTH IN THE "MANUAL" FOR ALL INFORMATION REGARDING FURNISHING, MAINTAINING, AND USE OF FLASHING ARROW PANELS.



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#### 3. FLASHING ARROW REQUIREMENT

WHENEVER ANY PART OF THE TRAVELED SURFACE IS CLOSED, THE MOTORISTS SHALL BE WARNED AND DIRECTED BY THE CONTRACTOR THROUGH THE USE OF ONE FLASHING ARROW PANEL FOR EACH LANE CLOSED. THE CONTRACTOR SHALL REFER TO SUPPLEMENTAL SPECIFICATION 821, 921 AND THE PROVISIONS SET FORTH IN THE "MANUAL" FOR ALL INFORMATION REGARDING FURNISHING, MAINTAINING, AND USE OF FLASHING ARROW PANELS.

#### 4. DRUMS

DRUMS SHALL BE IN ACCORDANCE WITH PERTINENT SECTIONS OF THE "MANUAL". ALL COSTS FOR INSTALLING, MAINTAINING, AND SUBSEQUENT REMOVAL OF SAID DRUMS IS TO BE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614 - MAINTAINING TRAFFIC.

#### 5. CONES

CONES, IF UTILIZED, ARE TO BE LOCATED AS SHOWN IN THE "MANUAL" AND THE STANDARD DRAWINGS.

## BARRIER

PORTABLE BARRIER IF NECESSARY IS TO BE LOCATED AS SHOWN IN THE "MANUAL" AND THE STANDARD DRAWINGS.

## 7. FLASHERS

FLASHERS SHALL BE 12 VOLT BATTERY-OPERATED MODELS WITH 7 INCH DIAMETER YELLOW LENSES ILLUMINATED BY RAPID INTERMITTENT FLASHERS OF SHORT DURATION AND ARE TO BE PLACED ON ALL SIGNS AT ALL TIMES AS REQUIRED BY THE "MANUAL" AND THE STANDARD CONSTRUCTION DRAWINGS.

## 8. FLOODLIGHTING

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

## 9. WORK VEHICLES

ALL WORK VEHICLES LICENSED TO OPERATE ON THE HIGHWAY, SHALL BE EQUIPPED WITH A FLASHING, ROTATING, OR OSCILLATING AMBER LIGHT VISIBLE TO ALL DIRECTIONS OF TRAFFIC FOR A MINIMUM OF ONE-QUARTER MILE IN BRIGHT SUNLIGHT AND SHALL BE OPERATED WITH LIGHTED HEAD AND TAIL LAMPS. THE AMBER LIGHT SHALL BE IN OPERATION AT ALL TIMES WITHIN THE WORK ZONE AND WHILE TRAVELING TO AND FROM THE WORK ZONE WHENEVER THE VEHICLE SPEED IS BELOW THE POSTED LEGAL LIMIT. VEHICLE HAZARD LIGHTS DO NOT SATISFY THIS REQUIREMENT. ALL OTHER EQUIPMENT SHALL BE EQUIPPED WITH A FLASHING, ROTATING, OR OSCILLATING AMBER LIGHT VISIBLE TO ALL DIRECTIONS OF TRAFFIC FOR A MINIMUM OF ONE-QUARTER MILE IN BRIGHT SUNLIGHT. THE AMBER LIGHT SHALL BE IN OPERATION WHILE THE EQUIPMENT IS WITHIN THE WORK ZONE.

## PAYMENT

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, INCLUDING R/W FENCE WORK DESCRIBED ON SHEET 3. SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

## MAINTENANCE OF TRAFFIC SCHEME

THE CONTRACTOR SHALL DEVISE A SIMPLE MAINTENANCE OF TRAFFIC SCHEME, WHICH SHALL BE DEVISED BY THE WORKSITE TRAFFIC SUPERVISOR (SCHEME MAY BE A HAND SKETCH) AND PRESENT IT TO THE DISTRICT WORK ZONE TRAFFIC CONTROL ENGINEER, PROJECT ENGINEER, WARRENSVILLE HEIGHTS CITY ENGINEER (LOCATIONS 1 AND 2), AND SOLON CITY ENGINEER FOR ACCEPTANCE AT LEAST TWO WEEKS PRIOR TO IMPLEMENTATION. IN GENERAL, THE METHODS FOR MAINTAINING TRAFFIC THAT THE CONTRACTOR PROPOSES TO USE FOR CONDUCTING THE REQUIRED WORK IN A SAFE AND FEEICIENT MANNER CAN BE SHOWN BY HAND SKETCHES AS NECESSARY. THE MAINTENANCE OF TRAFFIC SCHEME SHALL BE IN CONFORMANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST REVISION) THE REFERENCED STANDARD CONSTRUCTION DRAWINGS, THE ATTACHED MAINTENANCE OF TRAFFIC SHEETS, AND THE SPECIFICATIONS. THE CONTRACTOR SHALL NOT COMMENCE WORK UNTIL THE MAINTENANCE OF TRAFFIC SCHEME HAS BEEN ACCEPTED.

IF DURING THE PROJECT THE ENGINEER DETERMINES THAT THE APPROVED MAINTENANCE OF TRAFFIC PLAN IS NOT PERFORMING AS DESIRED. THE WORK SHALL BE SUSPENDED UNTIL THE PROBLEM IS RESOLVED TO THE SATISFACTION OF THE ENGINEER, WARRENSVILLE HEIGHTS CITY ENGINEER (LOCATIONS 1 AND 2) AND SOLON CITY ENGINEER AND THE MAINTENANCE OF TRAFFIC PLAN IS REVISED ACCORDINGLY. ANY COSTS OR DELAYS INCURRED AS A RESULT OF THE FAILURE OF THE SATISFACTION OF THE ENGINEER SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR.

PAYMENT FOR ALL THE ITEMS REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THESE REQUIREMENTS IS INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 614-MAINTAINING TRAFFIC.

#### ITEM 614, MAINTAINING TRAFFIC (ESTIMATED QUANTITIES)

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 614. ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

20 CU. YD.

## ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, **AS PER PLAN**

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE. WHEN NO LONGER NEEDED. A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY THE PCMS. SHALL BE DELINEATED IN ACCORDANCE WITH C&MS 614.03.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS SHALL BE DETERMINED BY THE ENGINEER. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE. THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRECONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE

THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT. MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS. TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR. MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE. HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 20 SIGN MONTH ASSUMING 2 PCMS SIGN(S) FOR 10 MONTH(S)

## ITEM SPECIAL, WORK ZONE TRAFFIC SIGNAL

PROVIDE A WORK ZONE TRAFFIC SIGNAL UNDER THE STRUCTURE FOR PAINTING. THE SIGNAL SHALL REMAIN IN OPERATION UNTIL THE PAINTING IS COMPLETE. REMOVAL OF THE TRAFFIC SIGNAL SHALL BE INCIDENTAL TO THIS ITEM.

ALL WORK ZONE TRAFFIC SIGNAL ITEMS SHALL BE AS PER C&MS 632 AND 633. PROVIDE A CONTROLLER CAPABLE OF OPERATING THE PHASING SHOWN IN THE PLANS AND CAPABLE OF UTILIZING A RADAR DETECTION SYSTEM.

#### FULLY-ACTUATED OPERATION OF WORK ZONE TRAFFIC SIGNAL

THE WORK ZONE SIGNAL CONTROL REQUIRED FOR THIS PROJECT AND SHOWN ON THE PLAN SHEETS AND TRAFFIC SCDS MT-96.11, 96.20 AND 96.26 SHALL BE FULLY TRAFFIC-ACTUATED AND OPERATE IN A MANNER SIMILAR TO THAT DESCRIBED IN SECTION 733.02 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

THE INITIAL CONTROLLER TIMING SHALL BE AS SHOWN ON THE PLAN SHEETS.

PROVIDE TIMING APPROPRIATE FOR THE SIGNAL LOCATION UNDER CONSIDERATION. TYPICAL FLOW RATES ARE DISPLAYED IN TABLE 697-2 IN THE ODOT TRAFFIC ENGINEERING MANUAL (TEM).

THE CONTRACTOR SHALL ALSO DESIGN, FURNISH, INSTALL AND MAINTAIN A TRAFFIC DETECTOR ON EACH TRAFFIC APPROACH WHICH WILL RELIABLY DETECT ALL LEGAL TRAFFIC APPROACHING (BUT NOT LEAVING) THE SIGNAL AS IT PASSES OR WAITS IN THE DESIGNATED DETECTOR ZONE SHOWN IN THE PLANS. DETECTOR DESIGNS WHICH DO NOT PROVIDE RELIABLE DETECTION, FREE FROM FALSE CALLS, SHALL BE IMMEDIATELY REPLACED BY THE CONTRACTOR.



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## ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC, OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS. SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

FOR OPERATIONS WITHOUT POSITIVE PROTECTION OCCURRING WITHIN 10 FEET OF AN OPEN TRAVELED LANE THAT MEET ALL OF THE FOLLOWING CRITERIA:

ON A MULTI-LANE DIVIDED INTERSTATE, OTHER FREEWAY OR EXPRESSWAY; AND

AN AUTHORIZED SPEED LIMIT OF 45 MPH OR GREATER THAT IS IN EFFECT AT THE TIME OF THE OPERATION;

AADT OF 50,000 (OR AADT OF 30,000 WITH 25% OR HIGHER PERCENT TRUCKS)

"WITHOUT POSITIVE PROTECTION" MEANS USE OF DRUMS. CONES, SHADOW VEHICLE, ETC, WITHOUT PROTECTION FROM PORTABLE BARRIER OR OTHER RIGID BARRIER ALONG THE WORK AREA. THIS PHRASE DOES NOT APPLY TO CASES WHERE POSITIVE PROTECTION IS REQUIRED. MOBILE OPERATIONS ARE REGARDED AS "WITHOUT POSITIVE PROTECTION". FOR WORK ZONES USING A COMBINATION OF BARRIER AND TEMPORARY TRAFFIC CONTROL DEVICES (CONES, DRUMS, ETC), THE DESIGNATION SHALL BE BASED UPON THE TYPE OF DEVICES USED IN THE AREA THAT WORKERS ARE LOCATED.

IF MULTIPLE ACTIVE LOCALIZED QUALIFYING WORK AREAS OCCUR WITHOUT POSITIVE PROTECTION, PER MAINLINE TRAFFIC DIRECTION, PROVIDE A UNIFORMED LEO AND OFFICIAL PATROL CAR IN ADVANCE OF:

THE FIRST ACTIVE WORK AREA THAT DRIVERS WILL ENCOUNTER: OR

THE ACTIVE WORK AREA LATERALLY CLOSEST TO THE OPEN TRAVELED LANE; OR OTHER LOCATION AS APPROVED BY THE ENGINEER.

THE UNIFORMED LEO AND OFFICIAL PATROL CAR MAY RELOCATE AMONG THE LISTED LOCATIONS AS APPROPRIATE AS THE OPERATIONS PROCEED IN THE LOCALIZED QUALIFYING WORK AREAS.

IN GENERAL, LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION (OR AT THE POINT OF ROAD CLOSURE), AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS, HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

ENSURE PROVIDED LEOS HAVE BEEN TRAINED APPROPRIATE TO THE JOB DECISIONS THEY ARE REQUIRED TO MAKE WHILE ON THE PROJECT, IN ACCORDANCE WITH C&MS 614.03.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE THAT SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 100 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF A LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

#### **HOLIDAY CLOSURES**

SUNDAY

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

CHRISTMAS MOTHER'S DAY MEMORIAL DAY FOURTH OF JULY **EASTER** LABOR DAY **THANKSGIVING** 

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

DAY OF THE WEEK TIMES ALL LANES MUST BE OPEN TO

12:00 NOON FRIDAY THROUGH

6:00 AM MONDAY

MONDAY 12:00 NOON FRIDAY THROUGH

6:00 AM TUESDAY

12:00 NOON MONDAY THROUGH TUESDAY 6:00 AM WEDNESDAY

12:00 NOON TUESDAY THROUGH WEDNESDAY

6:00 AM THURSDAY

**THURSDAY** THURSDAY (THANKSGIVING ONLY)

12:00 NOON WEDNESDAY THROUGH 6:00 AM MONDAY 6:00AM WEDNESDAY THROUGH

6:00 AM MONDAY

FRIDAY 12:00 NOON THURSDAY THROUGH

6:00 AM MONDAY

12:00 NOON FRIDAY THROUGH SATURDAY

6:00 AM MONDAY

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

### LANE CLOSURE DISINCENTIVE

A LANE CLOSURE IS DEFINED AS ANY RESTRICTION OF A LANE OF TRAFFIC INCLUDING, BUT NOT LIMITED TO, SET-UP AND TEAR-DOWN OF TRAFFIC CONTROL ZONES. THE CONTRACTOR WILL BE ASSESSED A DISINCENTIVE FEE AS PER THE LANE VALUE CONTRACT TABLE FOR LANES THAT ARE CLOSED TO TRAFFIC DURING TIMES DESIGNATED AS "LANE CLOSURE NOT PERMITTED" AS STATED IN THESE PLANS AND ON THE ODOT PLCM WEBSITE.

## LANE VALUE CONTRACT TABLE

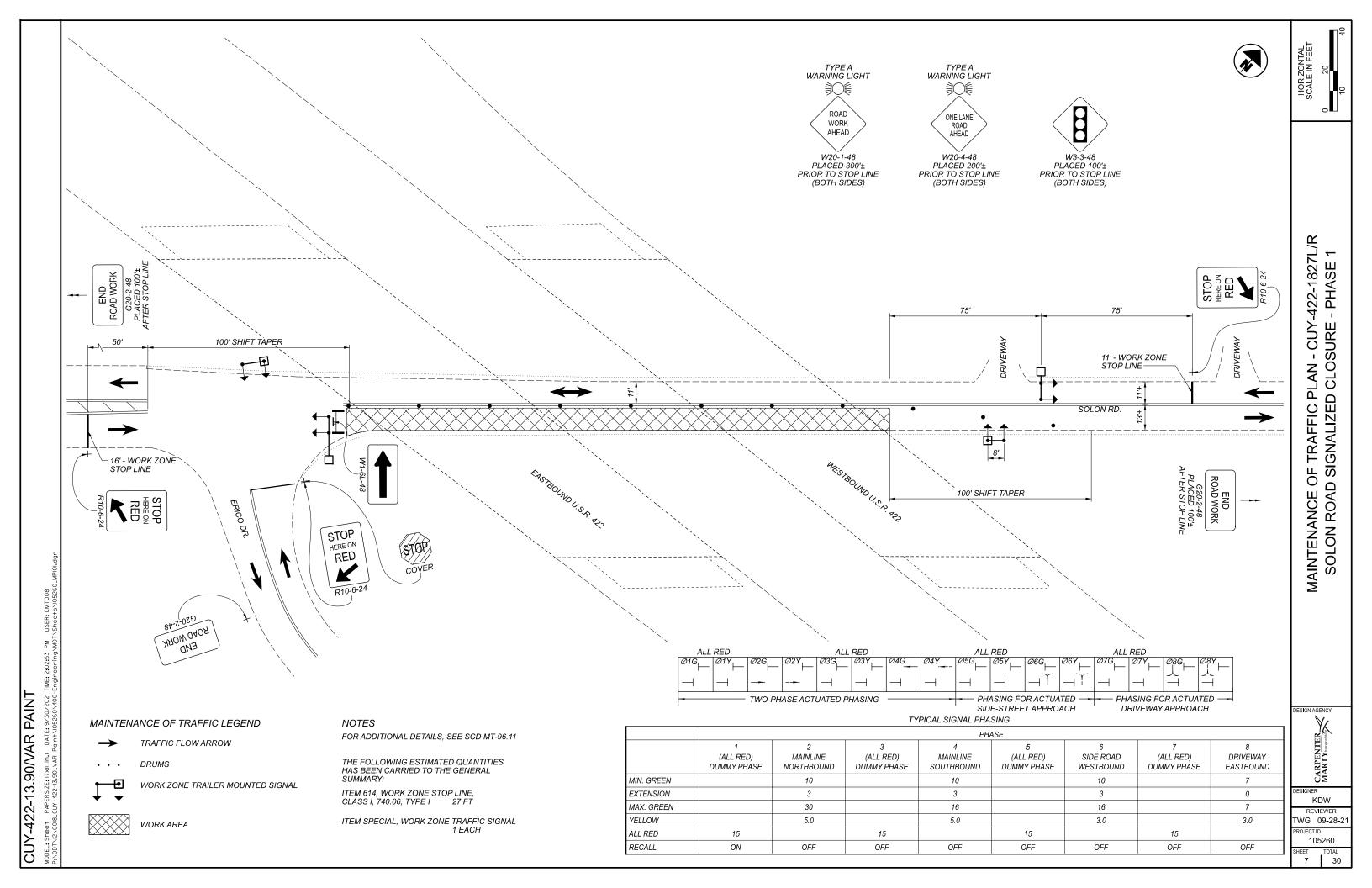
Location	Description of Critical Lane/Ramp to be Maintained	Restricted Time Period	Time Unit	Disincentive \$ per Time Unit per Lane
1	CUY-422-1390R Over SR-175	As per the D12 Permitted Lane Closure Schedule	Each Minute	\$135
2	CUY-480-0140WE Over SR-175	As per the D12 Permitted Lane Closure Schedule	Each Minute	\$95
3	CUY-422-1390L Over SR-175	As per the D12 Permitted Lane Closure Schedule	Each Minute	\$145
4	CUY-422-1804L Over SR-91	As per the D12 Permitted Lane Closure Schedule	Each Minute	\$105
5	CUY-422-1804R Over SR-91	As per the D12 Permitted Lane Closure Schedule	Each Minute	\$60
6	CUY-422-1827L Over Solon Rd	As per the D12 Permitted Lane Closure Schedule	Each Minute	\$75
7	CUY-422-1827R Over Solon Rd	As per the D12 Permitted Lane Closure Schedule	Each Minute	\$75
8	CUY-422-1911L Over Liberty Rd	As per the D12 Permitted Lane Closure Schedule	Each Minute	\$75
9	CUY-422-1911R Over Liberty Rd	As per the D12 Permitted Lane Closure Schedule	Each Minute	\$75

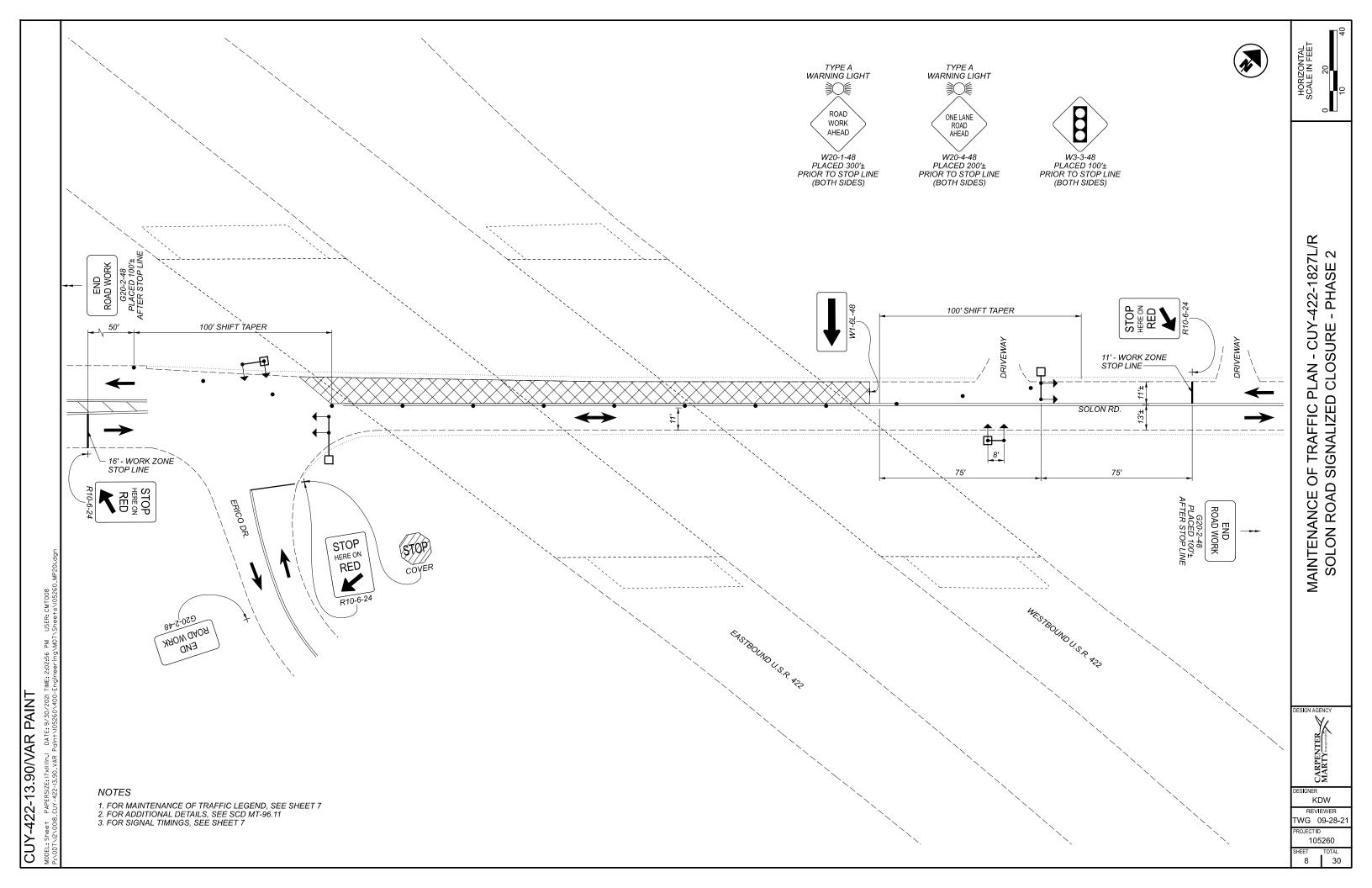
THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE EQUAL TO THE LARGEST DISINCENTIVE WITHIN ALL SECTIONS IMPACTED BY THE PHYSICAL LANE RESTRICTION, INCLUDING THE TRANSITION AREA, ACTIVITY AREA, AND TERMINATION AREA AS DEFINED BY THE OMUTCD. HOLIDAY DISINCENTIVES SHALL BE APPLIED PER SECTION PER LANE PER TIME UNIT.

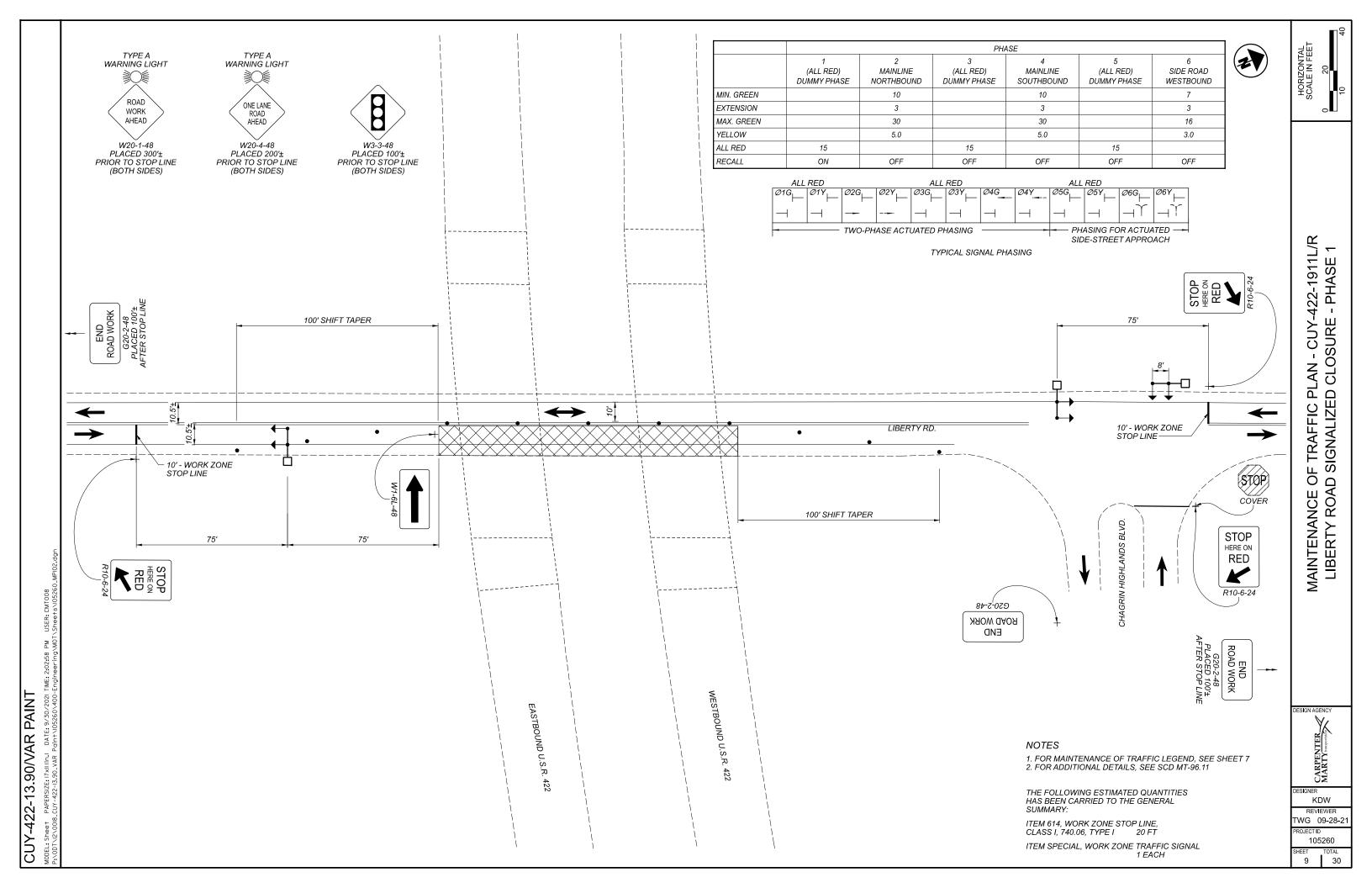


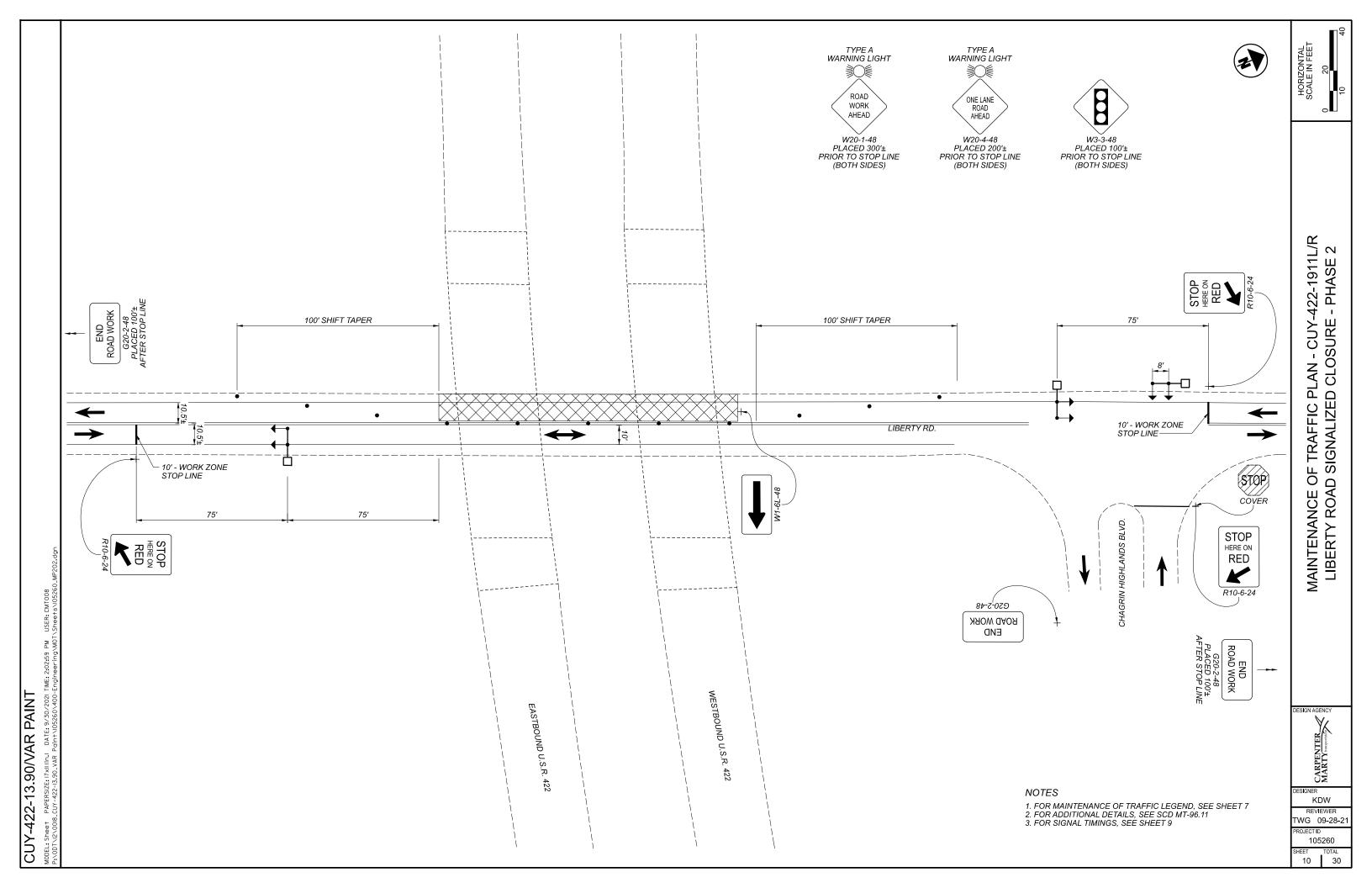
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## STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWING: GSD-1-19 REVISED 1-15-21

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION: DATED 10-15-21

#### BRIDGE NO. CUY-422-1804L/R

## ITEM 513 - REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN

EXISTING DAMAGED OR DETERIORATED ANGLES ARE TO BE REMOVED AND REPLACED AS PER THE PLANS OR DIRECTED BY THE ENGINEER. THE EXISTING END CROSSFRAME MEMBERS SHALL BE REMOVED FLUSH WITH THE BEAM WEB, WHERE APPLICABLE. ALL END CROSSFRAME MEMBERS DESIGNATED FOR REPLACMENT IN ONE BAY SHALL BE REMOVED AND REPLACED PRIOR TO REMOVING ANY END CROSSFRAME MEMBERS IN ANOTHER BAY.

EXCEPT AS NOTED IN THE PLANS, EXISTING GUSSET PLATES ARE TO BE REUSED AS WELD CONNECTION POINTS FOR THE NEW STEEL CROSSFRAME MEMBERS. CUT OR GRIND EXISTING GUSSET PLATES TO HAVE A 11/2" TAB REMAINING FOR WELDING PURPOSES.

FOR EXISTING DETAILS NOT SHOWN IN THE PLANS, REFER TO ARCHIVED SCD SD-1-69 ON SHEET

THE NEW END CROSSFRAMES SHALL BE IN ACCORDANCE WITH ODOT STANDARD DRAWING

ALL EQUIPMENT, LABOR, AND MATERIALS REQUIRED TO REMOVE AND INSTALL THE END CROSSFRAMES SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 513 - REPLACEMENT OF DETERIORATED END CROSSFRAMES, AS PER PLAN.

BRIDGE NO. CUY-422-1390L/R

BRIDGE NO. CUY-422-1804L/R

BRIDGE NO. CUY-422-1827L/R

BRIDGE NO. CUY-422-1911L/R

BRIDGE NO. CUY-480-0140WE

## ITEM 514 - FIELD PAINTING

THE CONTRACTOR SHALL NOT OVERSPRAY ONTO THE CONCRETE SUPERSTRUCTURE COMPONENTS OR CONCRETE SUBSTRUCTURE COMPONENTS (E.G. DECK, RAILINGS, BACKWALLS, ABUTMENTS, AND PIERS). PAINTING SHALL BE CONFINED TO THE STRUCTURAL STEEL COMPONENTS, UTILITY SUPPORTS, AND SIGN SUPPORTS ATTACHED TO THE BEAMS. DRAINAGE SYSTEM DOWNSPOUTS SHALL BE PAINTED FROM DECK BOTTOM TO TOP OF PIER CAP, ALONG

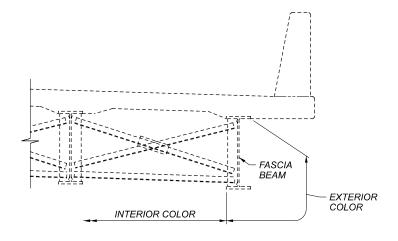
LIGHT FIXTURES, UTILITY CONDUITS, AND ASSOCIATED BRACKETS SHALL NOT BE PAINTED. THE CONTRACTOR SHALL PHYSICALLY PROTECT THEM FROM DAMAGE DURING PAINTING OPERATIONS. THE CONTRACTOR SHALL ALSO COORDINATE WITH UTILITY COMPANIES AND PHYSICALLY PROTECT ALL UTILITY LINES THAT ARE TO BE TEMPORARILY MOVED/SHIFTED BY OTHERS. ANY COST TO REPAIR A UTILITY DAMAGED BY THE CONTRACTOR DURING PAINTING OPERATIONS SHALL BE AT NO ADDITIONAL COST TO THE PROJECT OR UTILITY COMPANY. STEEL UTILITY SUPPORTS ATTACHED TO THE BEAMS/CROSSFRAMES, DRAINAGE SCUPPERS, BEARING ASSEMBLIES, AND PORTIONS OF SIGN SUPPORTS ATTACHED TO THE BEAMS SHALL BE PAINTED.

THE STRUCTURES AT ALL LOCATIONS SHALL HAVE A TWO-COLOR SCHEME FOR THE STRUCTURAL STEEL. THE COLOR OF THE FINISH COAT SHALL BE AMS-STD-595A COLOR NO. 14533 (LIGHT GREEN, GLOSS) FOR ALL STEEL SURFACES EXCEPT FOR THE EXTERIOR SURFACES OF THE FASCIA BEAMS AND SIGN SUPPORTS ATTACHED TO THE EXTERIOR SURFACES OF THE FASCIA BEAMS. THE COLOR OF THE FINISH COAT SHALL BE AMS-STD-595A COLOR NO. 24108 (GREEN, GLOSS) FOR THE EXTERIOR SURFACES OF THE FASCIA BEAMS (AS DETAILED ON THIS SHEET) AND SÍGN SUPPORTS ATTACHED TO THE EXTERIOR SURFACES OF THE FASCIA BEAMS.

PAINT THE INTERIOR MEMBERS' FINISH COAT FIRST. MINIMAL OVERSPRAY FROM THE FASCIA BEAM FINISH COAT IS PERMITTED ONTO THE INTERIOR MEMBERS.

THE CONTRACTOR SHALL PROVIDE AN ADDITIONAL DRAWDOWN CARD (TWO TOTAL) AS SPECIFIED IN CMS 708.02 FOR THE URETHANE FINISH COATS.

ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO PERFORM THE WORK DESCRIBED ABOVE SHALL BE INCLUDED IN THE APPROPRIATE 514 ITEM BID PRICES



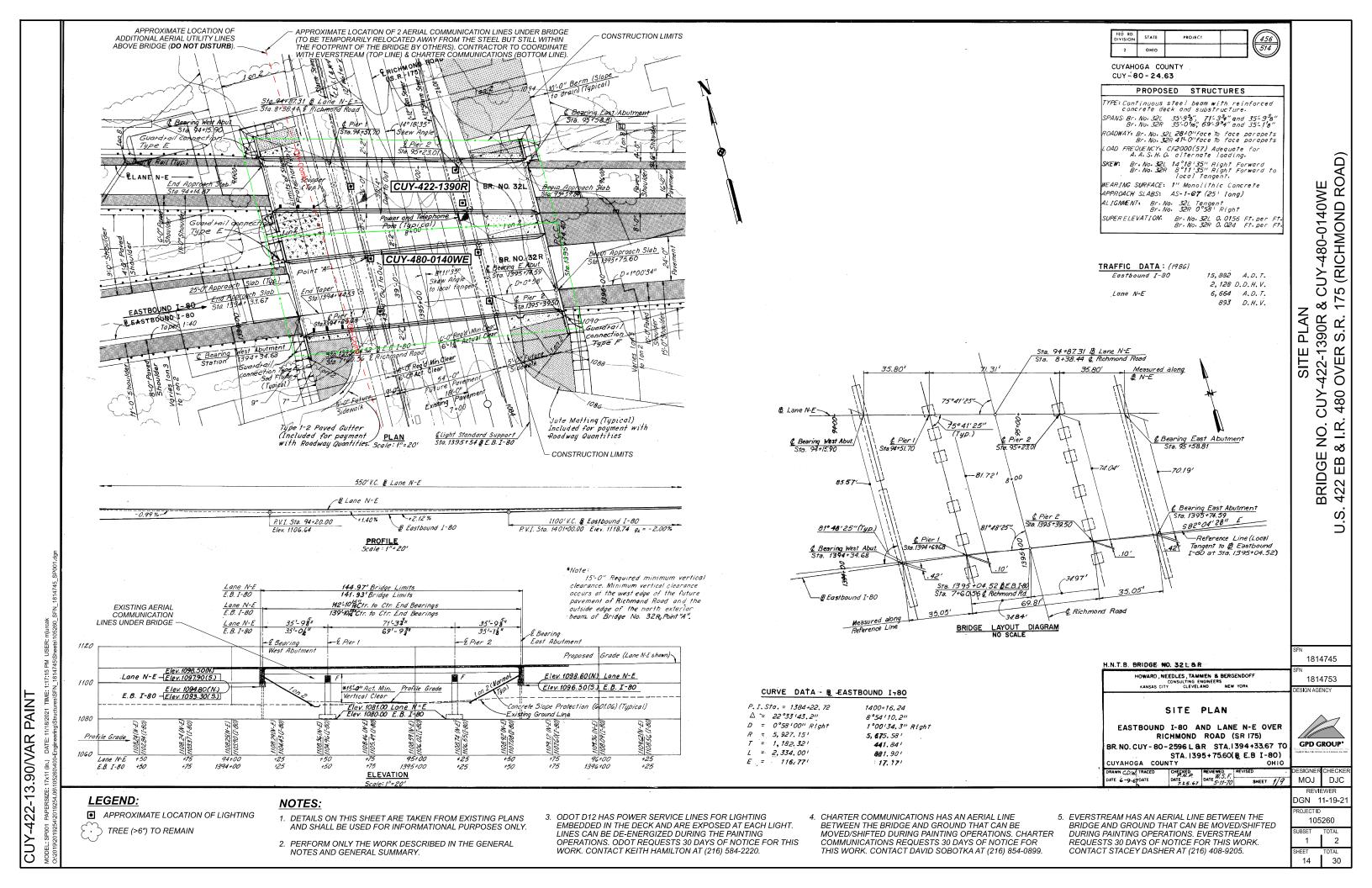
## FASCIA BEAM PAINTING DETAIL

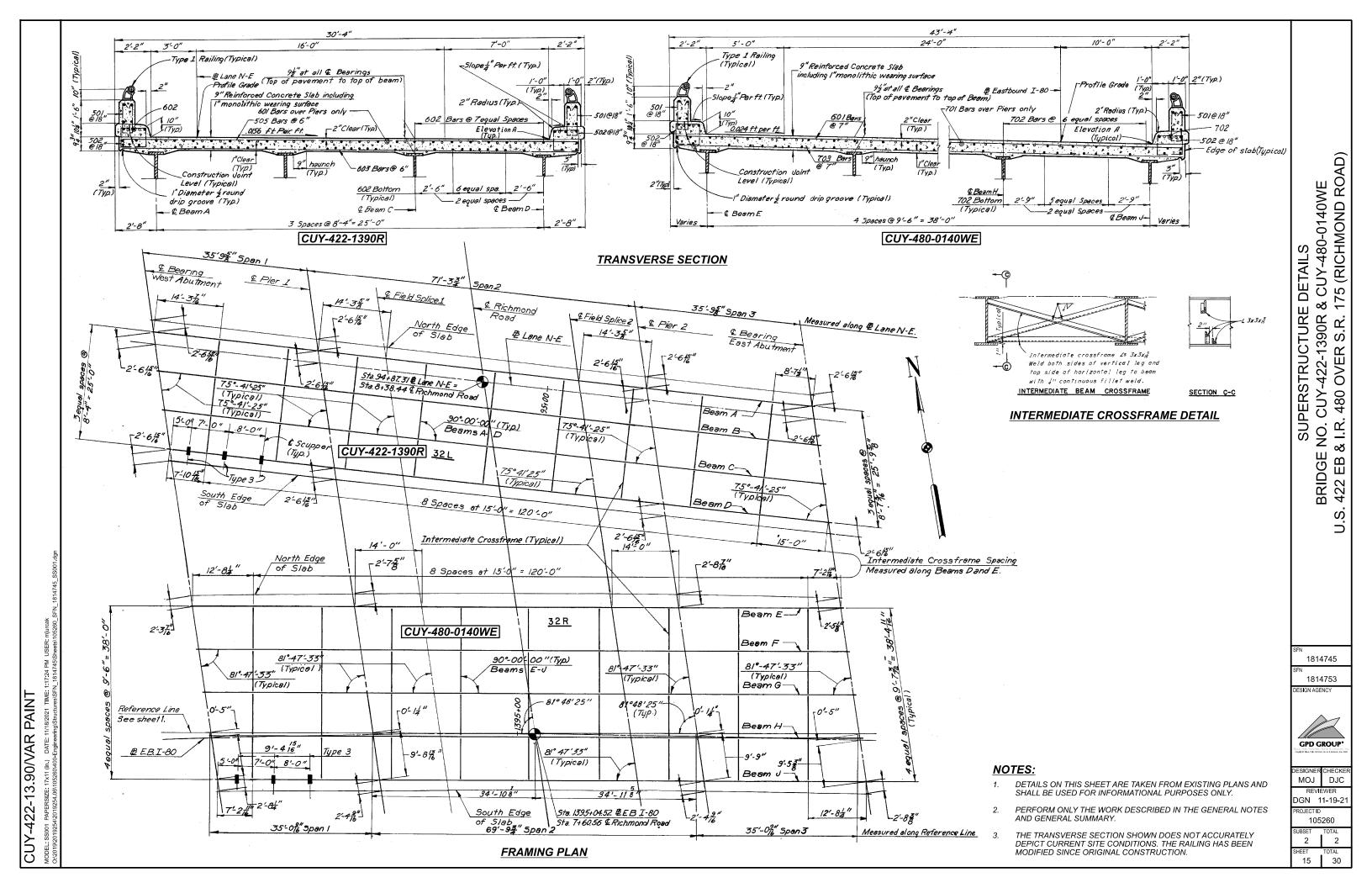
ALL LOCATIONS

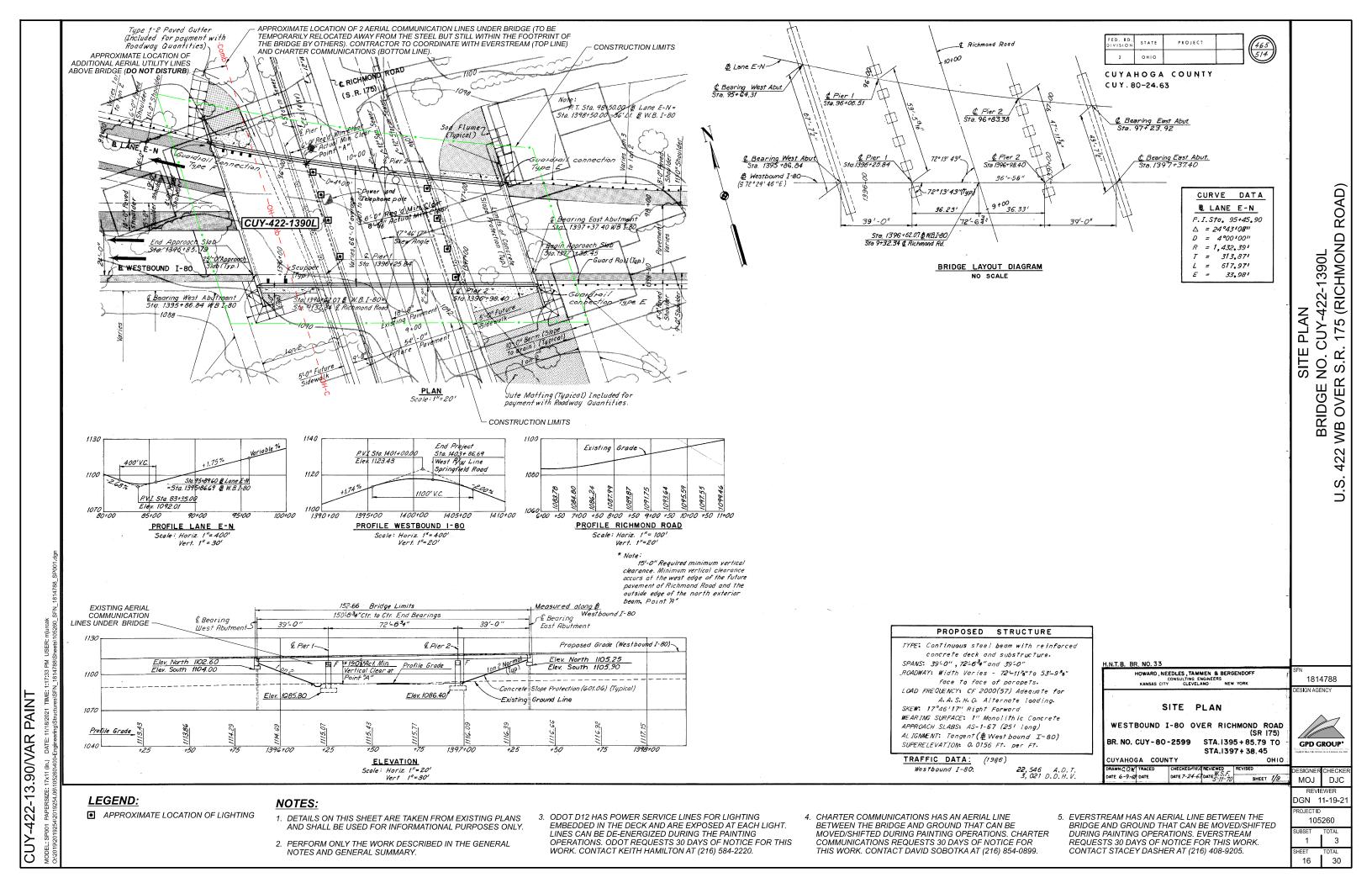
VARIES

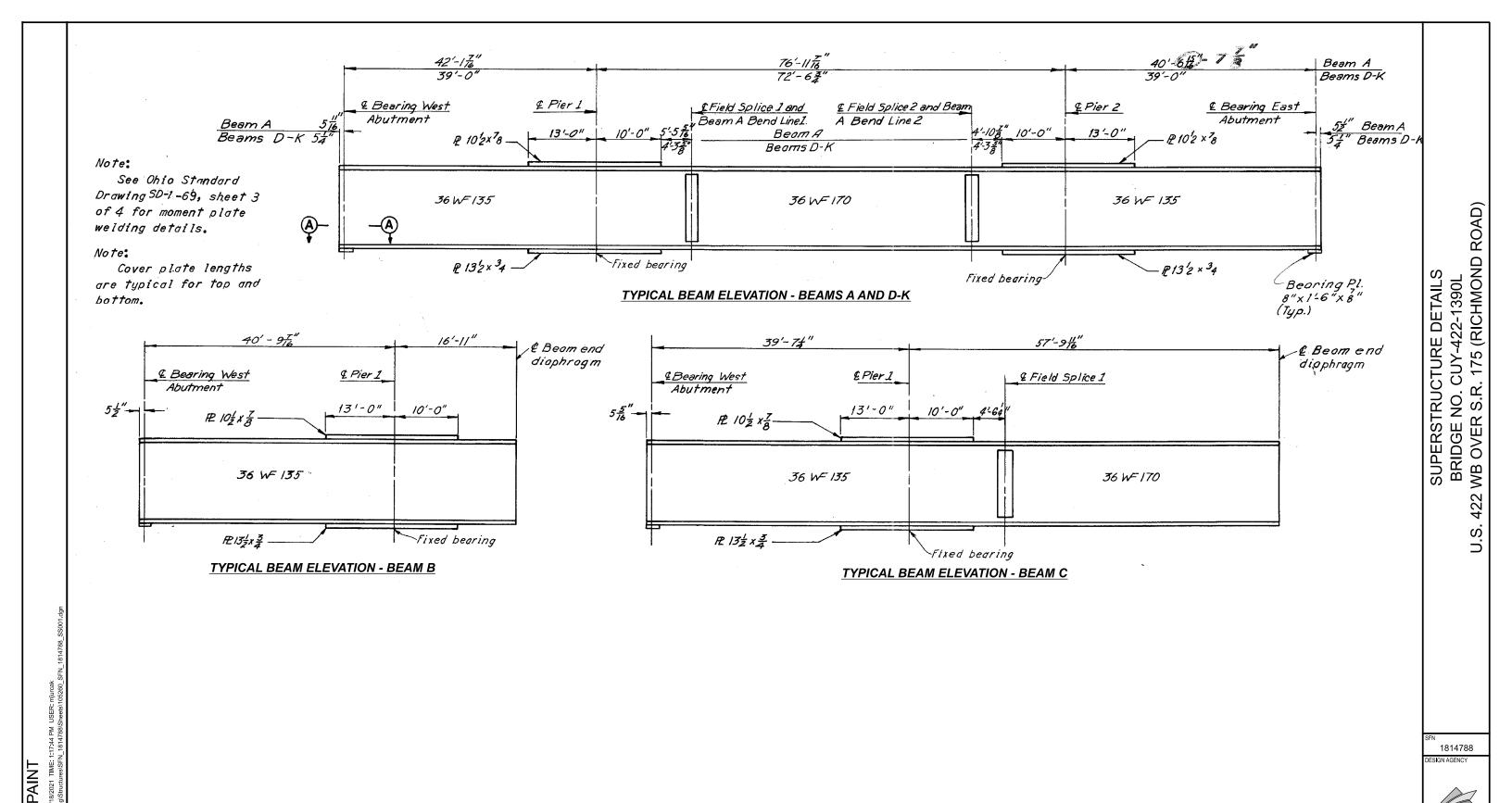


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CUY-422-13.90/VAR PAINT

## **NOTES:**

- DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS AND SHALL BE USED FOR INFORMATIONAL PURPOSES ONLY.
- 2. PERFORM ONLY THE WORK DESCRIBED IN THE GENERAL NOTES AND GENERAL SUMMARY.

1814788
DESIGN AGENCY

CPD GROUP\*
Institute to the second control of the second control

MOJ DJC

REVIEWER

DGN 11-19-21

PROJECT ID

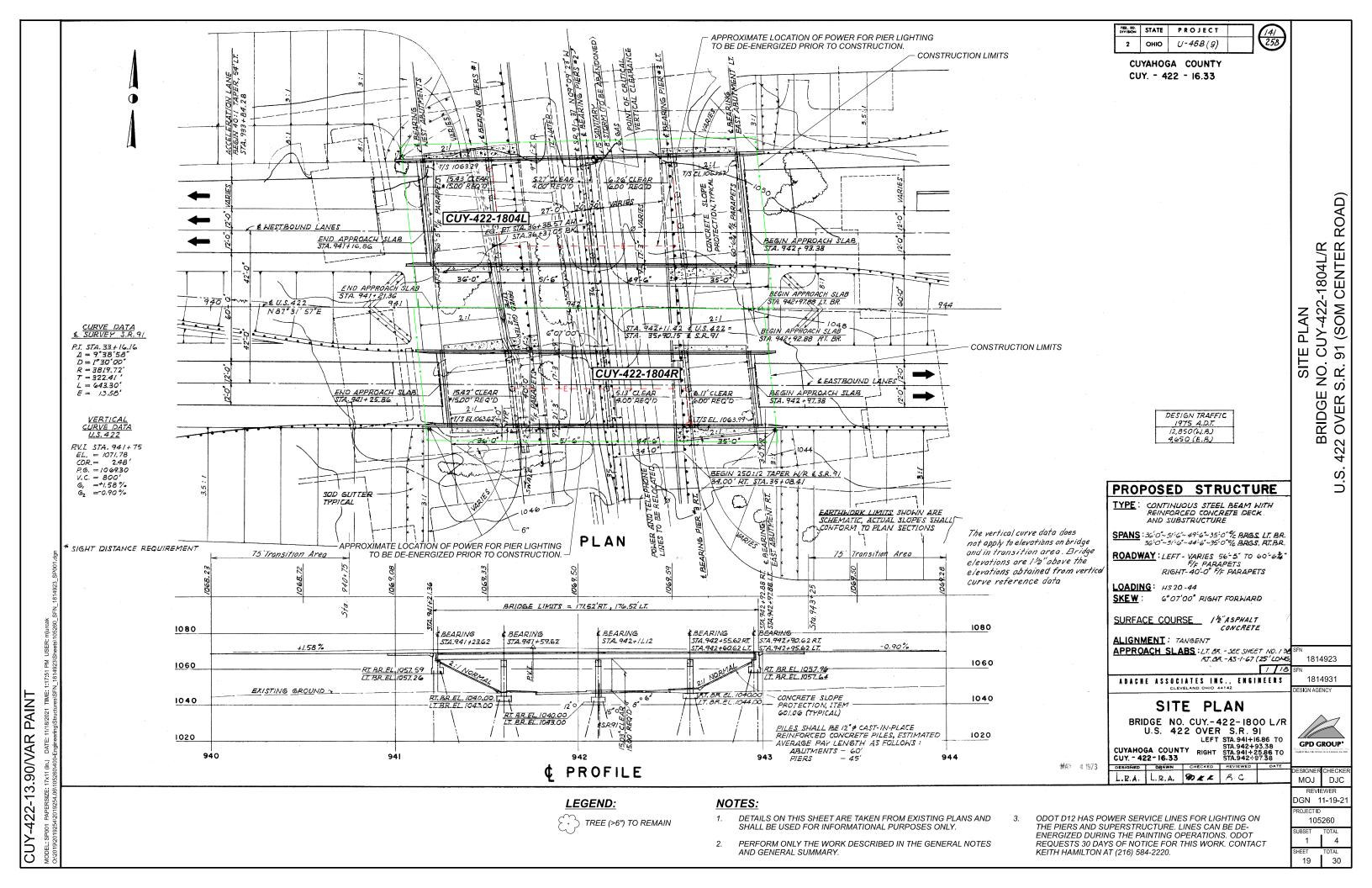
105260

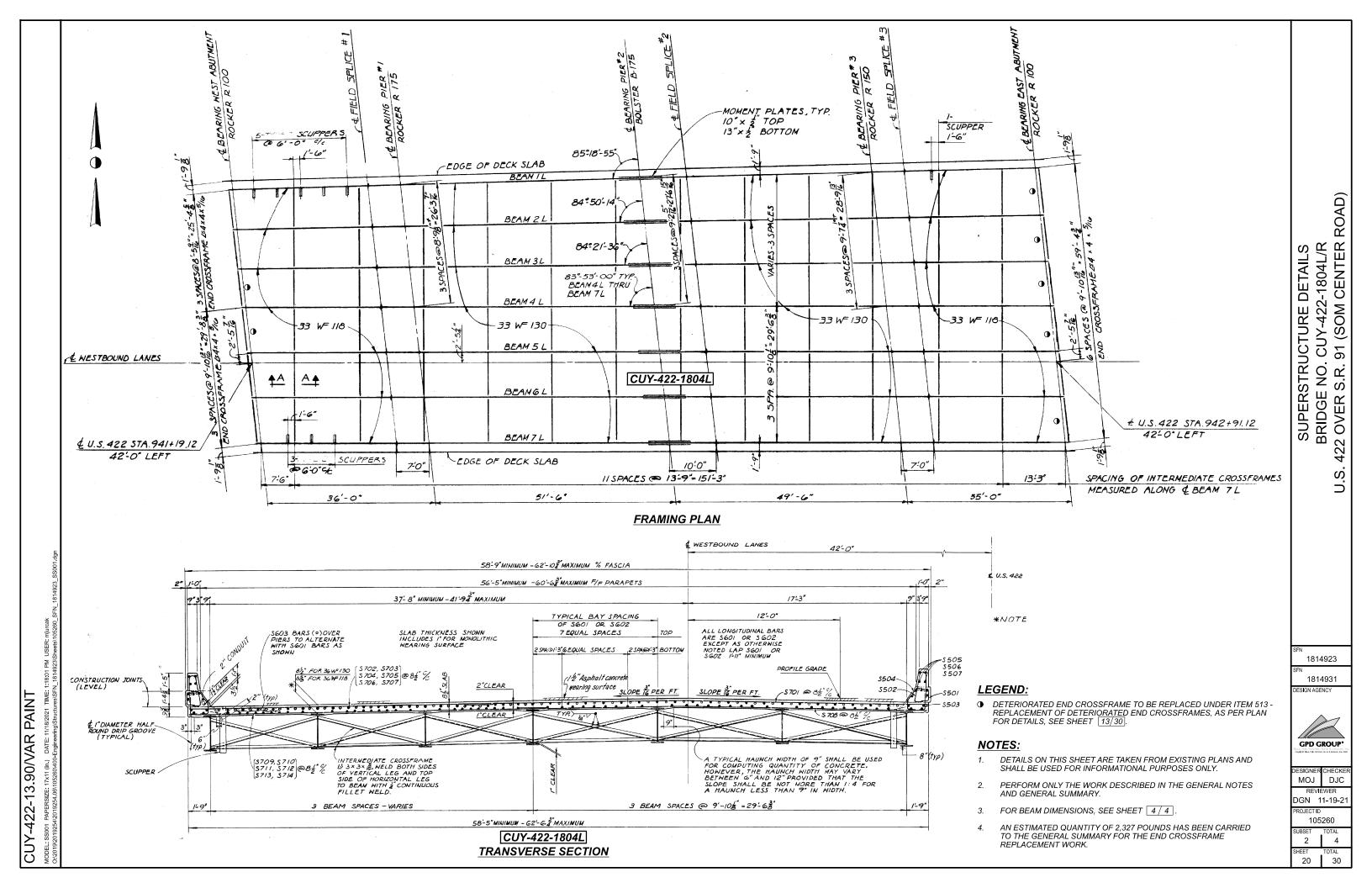
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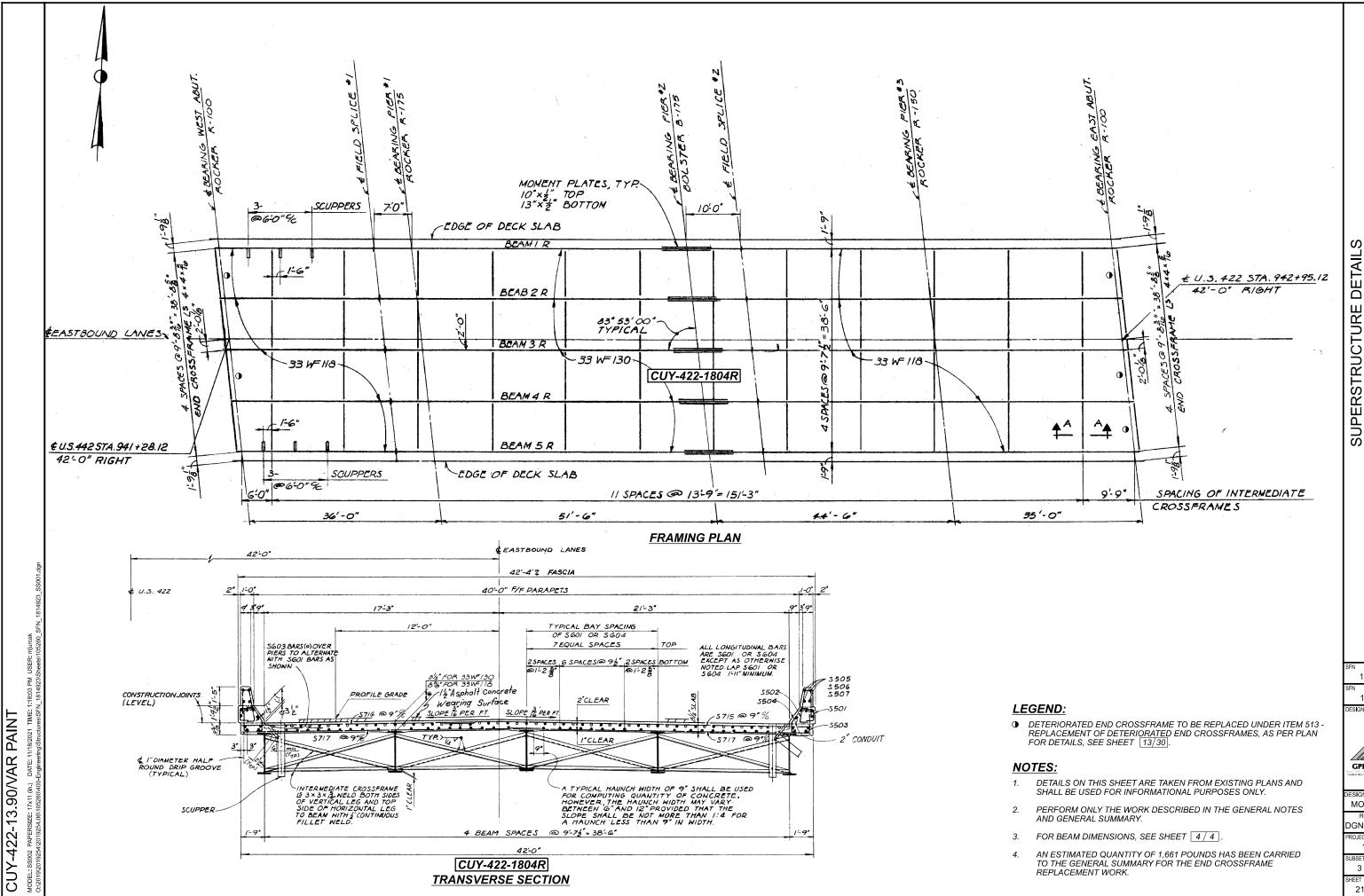
3 3

SHEET TOTAL

18 30







SUPERSTRUCTURE DETAILS BRIDGE NO. CUY-422-1804L/R U.S. 422 OVER S.R. 91 (SOM CENTER ROAD)

SFN 1814923 SFN 1844024

1814931 DESIGN AGENCY

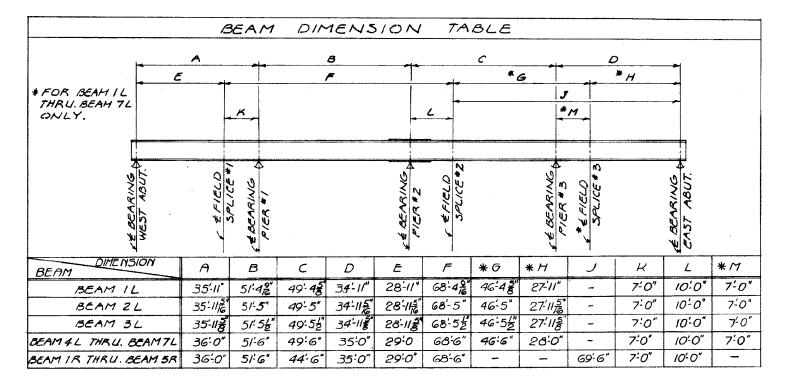


DESIGNER CHECKER
MOJ DJC

REVIEWER
DGN 11-19-21
PROJECT ID

105260
SUBSET TOTAL
3 4
SHEET TOTAL
21 30



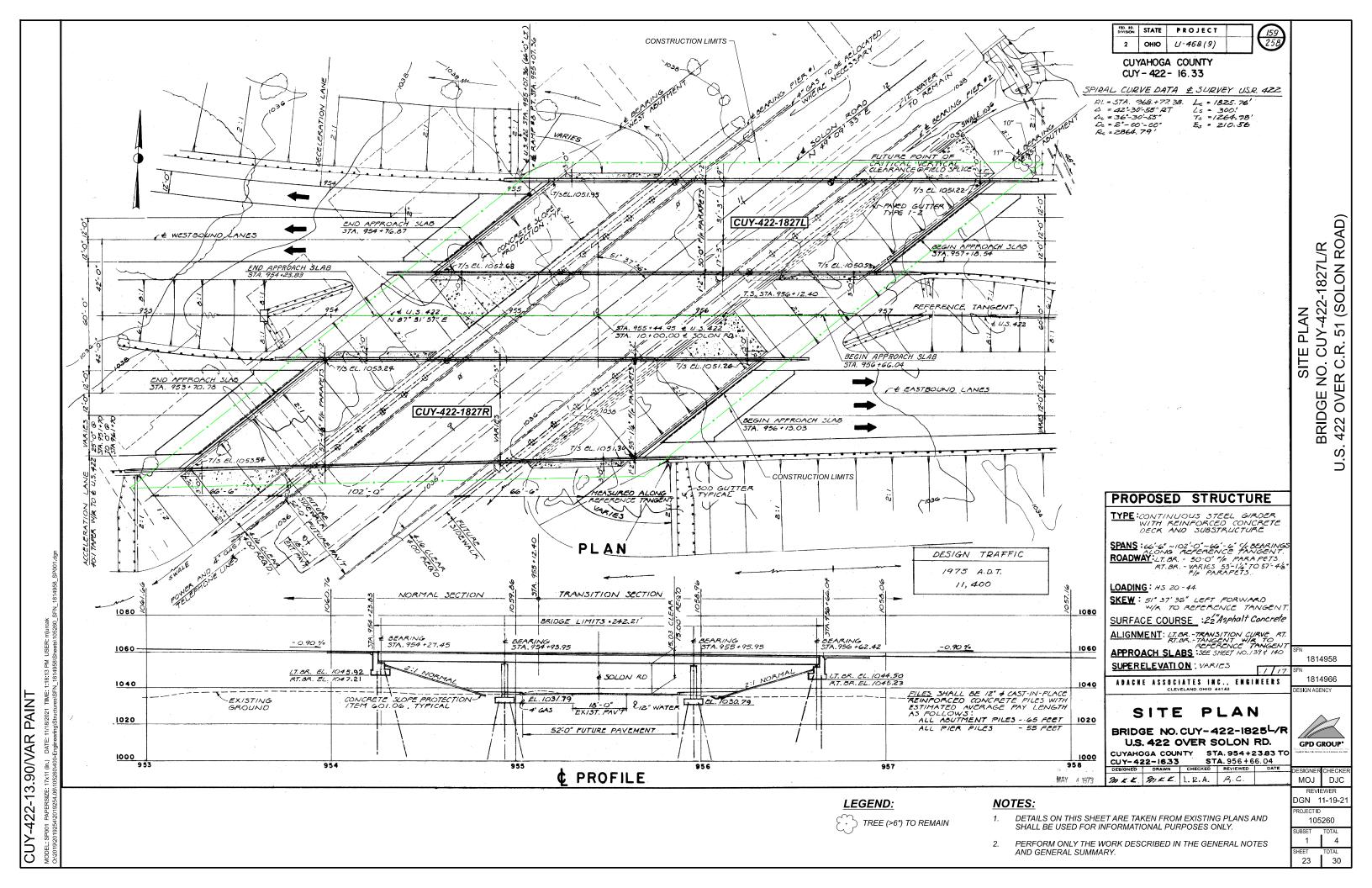


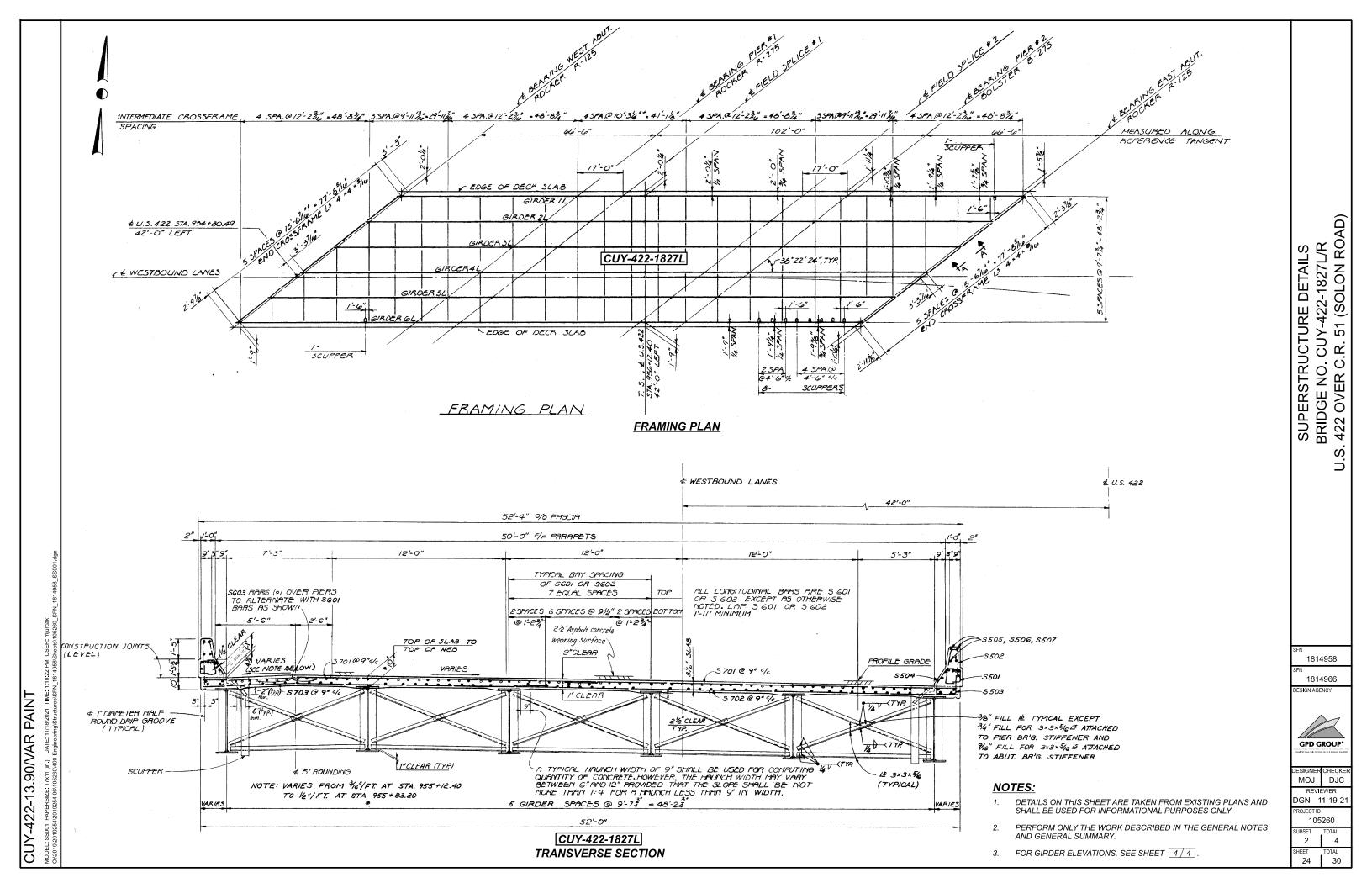
## **NOTES:**

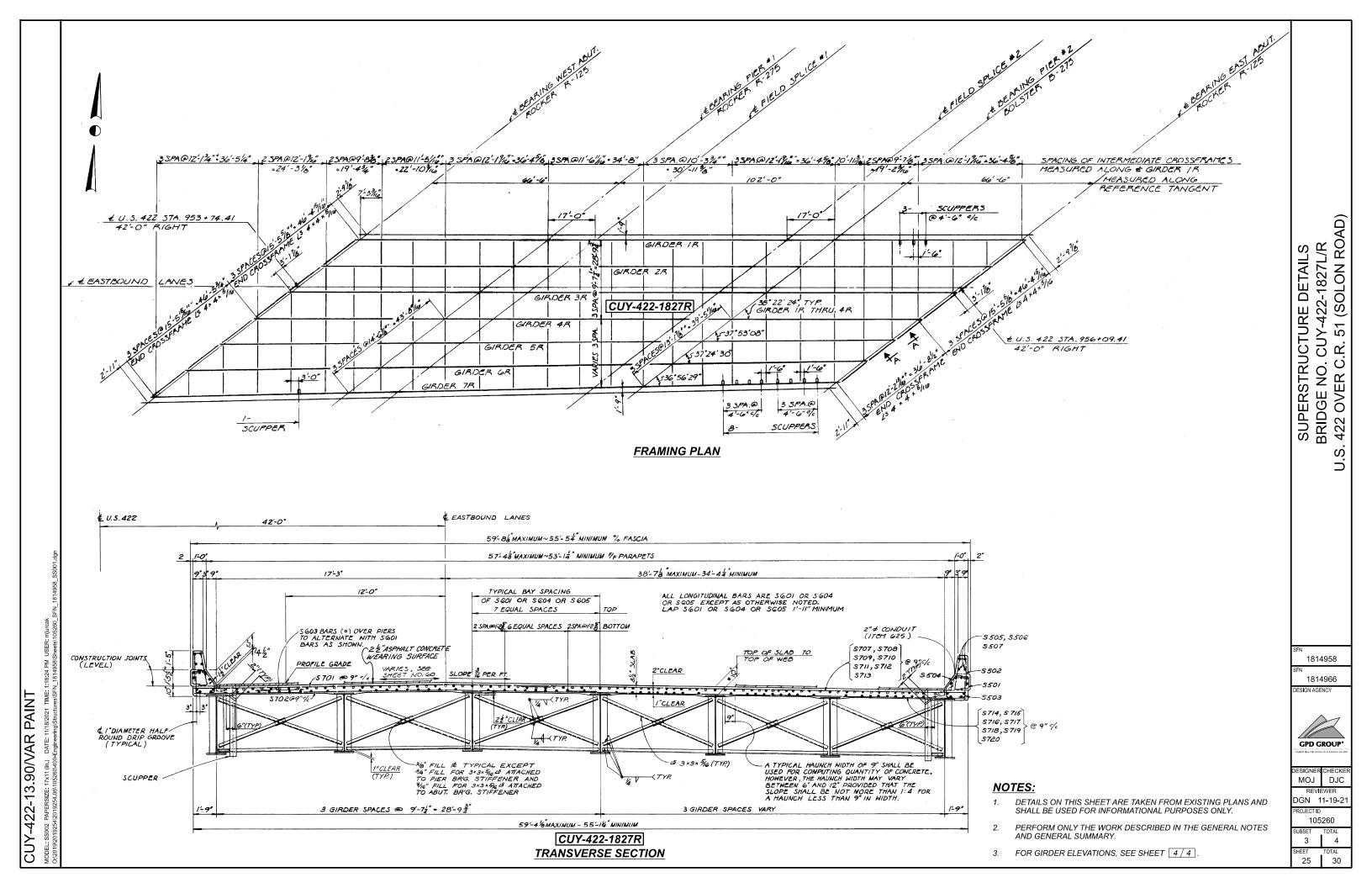
- DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS AND SHALL BE USED FOR INFORMATIONAL PURPOSES ONLY.
- PERFORM ONLY THE WORK DESCRIBED IN THE GENERAL NOTES AND GENERAL SUMMARY.

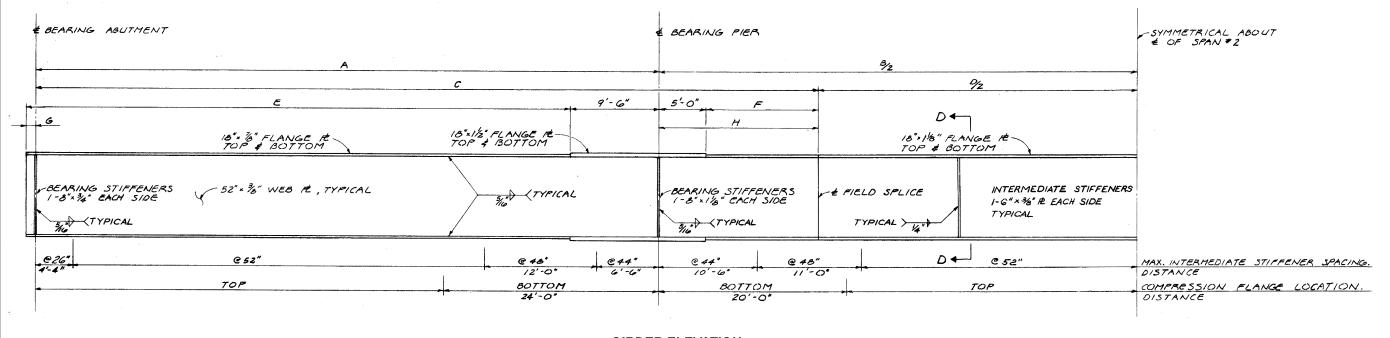


MOJ DJC DGN 11-19-21 105260 4 SHEET TOTAL 22 30









## GIRDER ELEVATION

GIRDER DIMENSION TABLE								
OIMENSION GIRDER	Α	B	С	D	E	F	G	Н
GIRDERS IL THRU GL GIRDERS IR THRU 4R	66'-6"	102'-0"	83'-6"	68'-0"	58'-2/2	12'-0"	1'-2/2"	17'-0"
GIRDER 5R	67'-2116	103'-1%"	84'-4'5"	68'-87g"	58:11%	12'-2'4"	1'-2%"	17'-24
GIRDER GR	67-11/16	104'-234"	85'-37g"	69'-5%"	59'-8/4"	12'-4716	1'-2136	17'-4716
GIRDER TR	68-84"	105'-4/4	86-015	70'-276"	60'-5'4"	12'-6/16	1'-3"	17'-6'h

DATE: 11/18/2021 TIME: 1:18:27 PM USER: Engineering\Structures\SFN 1814958\Sheets\1

CUY-422-13.90/VAR PAINT

## **NOTES:**

- DETAILS ON THIS SHEET ARE TAKEN FROM EXISTING PLANS AND SHALL BE USED FOR INFORMATIONAL PURPOSES ONLY.
- PERFORM ONLY THE WORK DESCRIBED IN THE GENERAL NOTES AND GENERAL SUMMARY.

SUPERSTRUCTURE DETAILS BRIDGE NO. CUY-422-1827L/R U.S. 422 OVER C.R. 51 (SOLON ROAD)

1814958 SFN 1814966 DESIGN AGENCY



	DESIGNER	CHECKER				
	MOJ	DJC				
	REVI	EWER				
	DGN 1	1-19-21				
	PROJECT ID 105260					
	SUBSET	TOTAL				
	4	4				
	SHEET	TOTAL				
	26	30				

