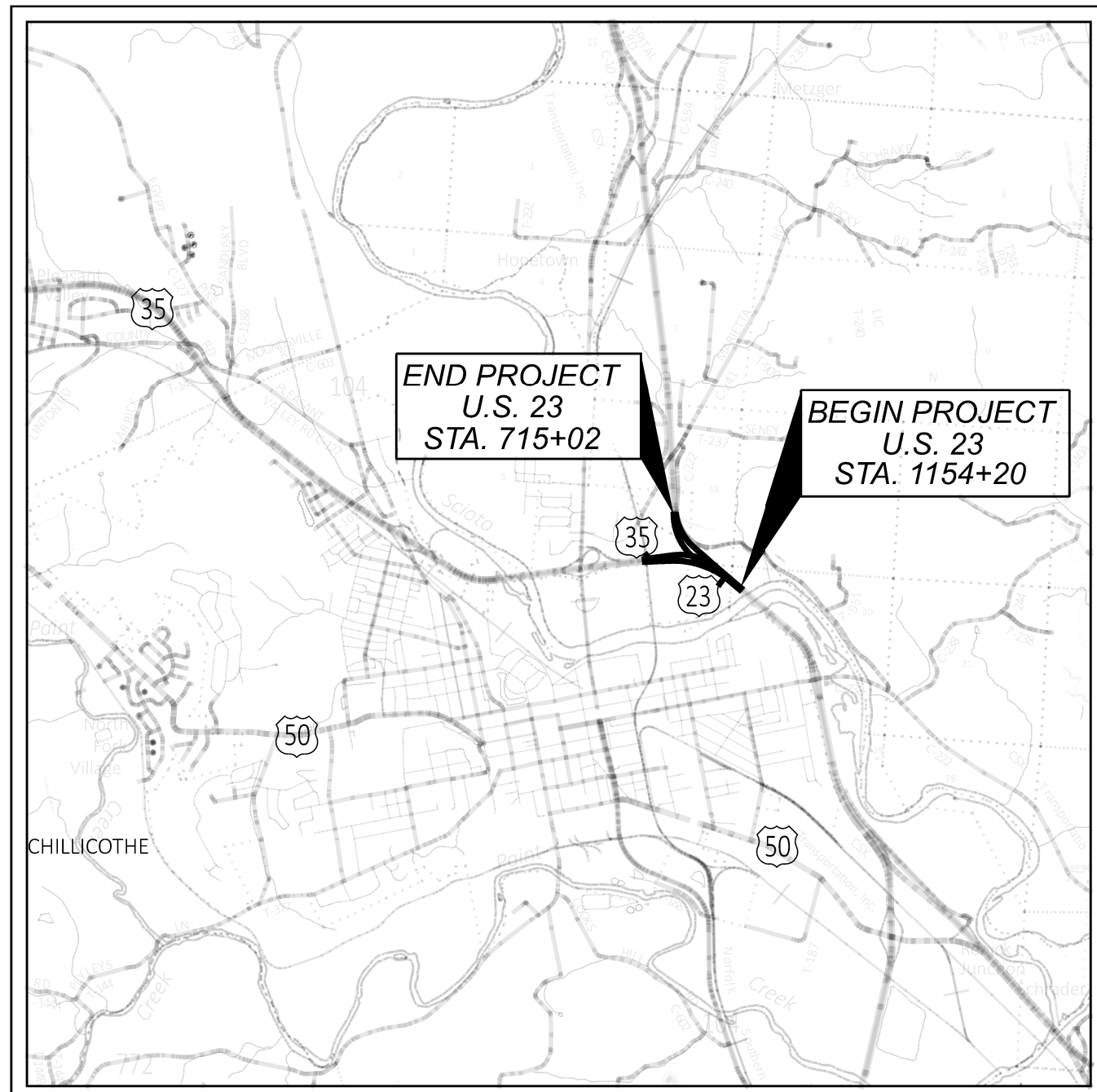


# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

## ROS-23-13.06

SCIOTO TOWNSHIP  
SPRINGFIELD TOWNSHIP  
ROSS COUNTY



**LOCATION MAP**

LATITUDE: 39°20'56.47" LONGITUDE: -82°57'42.13"  
SCALE: 1" = 1 MILE



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

**DESIGN DESIGNATION**

CURRENT ADT (2023) \_\_\_\_\_ 21740  
 DESIGN YEAR ADT (2033) \_\_\_\_\_ 24738  
 DESIGN HOURLY VOLUME (2033) \_\_\_\_\_ 2474  
 DIRECTIONAL DISTRIBUTION \_\_\_\_\_ 50%  
 TRUCKS (24 HOUR B&C) \_\_\_\_\_ 12%  
 DESIGN SPEED \_\_\_\_\_ 70 MPH  
 LEGAL SPEED \_\_\_\_\_ 60 MPH  
 DESIGN FUNCTIONAL CLASSIFICATION:  
 FREEWAY AND EXPRESSWAY \_\_\_\_\_  
 NHS PROJECT \_\_\_\_\_ NO

**DESIGN EXCEPTIONS**

NONE

**ADA DESIGN WAIVERS**

NONE

**UNDERGROUND UTILITIES**  
 Contact Two Working Days  
 Before You Dig

**OHIO811.org**  
 Before You Dig

OHIO 811, 8-1-1, or 1-800-362-2764  
 (Non members must be called directly)

PLAN PREPARED BY:  
 143ENGINEERS  
 3249 PLATEAU PLACE  
 CINCINNATI, OHIO 45241

**INDEX OF SHEETS:**

TITLE ..... P.01  
 LIGHTING GENERAL NOTES..... P.02, P.02A 2  
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 LIGHTING SUBSUMMARIES..... P.05-P.06  
 SCHEMATIC PLAN / SHEET INDEX..... P.07  
 SURVEY MONUMENTS..... P.08  
 LIGHTING PLAN..... P.09-P.12  
 CIRCUIT DIAGRAM..... P.13  
 TOWER ELEVATIONS..... P.14-P.18  
 UNDERPASS LIGHTING DETAIL ..... P.19-P.20

**ENGINEER'S SEAL**

LIGHTING

**ENGINEER'S SEAL**

FOUNDATIONS

STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
HL-10.11	7/15/22	MT-95.30	7/19/19			800 SEE PROPOSAL	
HL-10.12	1/20/17	MT-95.31	7/19/19			808 1/18/19	
HL-10.13	4/17/20	MT-95.32	4/19/19			813 10/19/18	
HL-10.31	7/15/22	MT-95.45	1/17/20			821 4/20/12	
HL-20.11	10/21/22	MT-98.10	1/17/20			825 1/17/20	
HL-20.21	1/15/21	MT-98.11	1/17/20			832 7/15/22	
HL-30.11	1/15/21	MT-98.20	4/19/19			908 10/20/17	
HL-30.21	4/17/20	MT-104.10	10/16/15			913 4/16/21	
HL-30.22	1/15/21					921 4/20/12	
HL-40.20	7/15/22						
HL-50.11	1/16/15						
HL-60.11	7/21/17						
HL-60.21	7/20/18						
HL-60.31	1/17/20						

FEDERAL PROJECT NUMBER

NON-FEDERAL

RAILROAD INVOLVEMENT

CSX TRANSPORTATION

PROJECT DESCRIPTION

UPGRADE OF HIGHWAY LIGHTING AT THE ROS U.S. 23 / U.S. 35 NORTH MERGE/SPLIT TO PROVIDE FULL INTERCHANGE LIGHTING. THE PROJECT WILL INCLUDE REMOVAL OF EXISTING POLES, FOUNDATIONS, POWER SERVICES, AND CIRCUITRY WHILE SALVAGING ALL BREAKAWAY BASES. THE PROPOSED LIGHTING IS LED AND POWER SERVICE IS 240V/480V SPLIT PHASE. CONDUITS UNDER PAVEMENT SHALL BE JACKED OR DRILLED UNDER THE ROAD.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 1.2 ACRES  
 ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.1 ACRES  
 NOTICE OF INTENT EARTH DISTURBED AREA: N/A (NOI NOT REQUIRED)

LIMITED ACCESS

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

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.

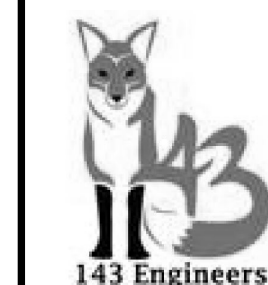
I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

DISTRICT DEPUTY DIRECTOR

DIRECTOR, DEPARTMENT OF TRANSPORTATION

ROS-23-13.06

DESIGN AGENCY



DESIGNER	
CMB	
REVIEWER	
CFD 02-06-23	
PROJECT ID	
115446	
SHEET	TOTAL
P.01	P.20



**CSX TRANSPORTATION COORDINATION NOTE**

REFER TO THE CSX TRANSPORTATION PUBLIC PROJECT INFORMATION MANUAL FOR ADDITIONAL REQUIREMENTS NEEDED FOR WORKING ON/ABOVE/ADJACENT TO CSXT. SPECIFIC SECTIONS THAT PERTAIN TO THIS PROJECT ARE SPECIAL PROVISIONS FOR CONSTRUCTION NEAR CSXT PROPERTY, CONSTRUCTION SUBMISSION CRITERIA, AND INSURANCE REQUIREMENTS FOR PUBLIC PROJECTS.

CONTRACTOR ACCESS WILL BE LIMITED TO THE IMMEDIATE PROJECT AREA ONLY. THE CSXT RIGHT-OF-WAY OUTSIDE THE PROJECT AREA MAY NOT BE USED FOR CONTRACTOR ACCESS TO THE PROJECT SITE AND NO TEMPORARY AT-GRADE CROSSINGS WILL BE ALLOWED.

THE CONTRACTOR WILL BE REQUIRED TO ABIDE BY THE PROVISIONS OF THE AGENCY/CSXT CONSTRUCTION AGREEMENT. PERIODICALLY, THROUGHOUT THE PROJECT DURATION, THE CONTRACTOR WILL BE REQUIRED TO MEET, DISCUSS AND, IF NECESSARY, TAKE IMMEDIATE ACTION AT THE DISCRETION OF CSXT PERSONNEL AND/OR THEIR AUTHORIZED REPRESENTATIVE, TO COMPLY WITH PROVISIONS OF THAT AGREEMENT AND THESE SPECIFICATIONS.

THE CONTRACTOR MAY NOT USE CSXT RIGHT-OF-WAY FOR STORAGE OF MATERIALS OR EQUIPMENT DURING CONSTRUCTION WITHOUT PRIOR CSXT APPROVAL. THE CSXT RIGHT-OF-WAY MUST ALWAYS REMAIN CLEAR FOR RAILROAD USE. EQUIPMENT MAY NOT BE POSITIONED TO BLOCK THE RAILROAD ACCESS ROAD, TRACK AREA OR ANY PART OF THE CSXT RIGHT-OF-WAY WITHOUT PRIOR CSXT APPROVAL.

IT IS THE RESPONSIBILITY OF THE INDIVIDUAL OWNERS OF WIRELINES, PIPELINES, UTILITIES, ETC TO COORDINATE DIRECTLY WITH CSXT REAL ESTATE AND FACILITIES MANAGEMENT (REFM) GROUP. THIS INCLUDES ALL NEW INSTALLATIONS AND THE ADJUSTMENT, MODIFICATION, REMOVAL OR RETIREMENT IN PLACE OF ALL EXISTING FACILITIES.

CSXT SHALL BE NOTIFIED AT LEAST FIVE (5) DAYS IN ADVANCE OF THE PRE-CONSTRUCTION MEETING.

THE CONTRACTOR SHALL COORDINATE ALL WORK ON, OVER OR ADJACENT TO THE RAILROADS WITHIN THE PROJECT'S LIMITS. THE CONTRACTOR SHALL CONTACT CSX RAILROAD, AT LEAST THIRTY (30) DAYS IN ADVANCE, IN ORDER TO COORDINATE THE NECESSARY WORK. UNDER NO CIRCUMSTANCES SHALL THERE BE ANY WORK WITHIN THE RAILROAD RIGHT-OF-WAY WITHOUT THE PROPER AUTHORIZATION AND/OR FLAG PROTECTION FROM THE RAILROAD.

CSXT REQUIRES THAT THE CONTRACTOR SUBMIT AND RECEIVE ACCEPTANCE OF A COMPREHENSIVE MEANS & METHODS SUBMITTAL (CSXT CONSTRUCTION SUBMISSION CRITERIA, ISSUED APRIL 2022) DETAILING SCOPE WORK WITHIN CSXT TRACKS OR RIGHT-OF-WAY, OR OTHER WORK WHICH PRESENTS THE POTENTIAL TO AFFECT CSXT PROPERTY OR OPERATIONS TO UNDERTAKING THE WORK.

ALL LIFTING EQUIPMENT AND CONNECTION DEVICES SHALL HAVE A CAPACITY FOR 150% OF THE ACTUAL LIFTING LOAD. THE FACTOR OF SAFETY PROVIDED BY THE MANUFACTURER IN THE LIFTING CAPACITY DATA SHALL NOT BE CONSIDERED IN THE 150% REQUIREMENT.

TEMPORARY CONSTRUCTION CLEARANCES (HORIZONTAL & VERTICAL) PROPOSED - FOR EXISTING OR LESS THAN STANDARD CONDITIONS - SHALL BE SUBJECT TO APPROVAL BY CSXT. TYPICALLY REDUCTION IN CONSTRUCTION CLEARANCES ARE NOT PERMITTED.

DURING AND AFTER COMPLETION OF CONSTRUCTION, THE OUTSIDE PARTY OR ITS CONTRACTOR SHALL CLEAR CSXT'S DRAINAGE DITCHES OF ALL DEBRIS TO THE SATISFACTION OF CSXT'S CONSTRUCTION MONITORING REPRESENTATIVE.

A WORK SITE SAFETY PLAN THAT INCLUDES A RECOGNITION TO KEEP ALL PERSONNEL FROM FOULING CSXT RAIL OPERATIONS, A FALL PROTECTION PLAN DESCRIBING THE MEASURES TO BE TAKEN WHEN REQUIRED, AND A FIRE PROTECTION PLAN SHALL BE PRESENTED AND ACCEPTED BY CSXT FOR WORK ON, OVER OR ADJACENT CSXT PROPERTY.

ALL WASTE MATERIALS GENERATED BY THIS PROJECT, INCLUDING WASHING WITH CLEANING SOLVENTS, BLASTING, SCRAPING, BRUSHING AND/OR PAINTING OPERATIONS, SHALL BE THE RESPONSIBILITY OF THE STATE OR ITS CONTRACTOR, AND SHALL BE CONTAINED, COLLECTED AND PROPERLY DISPOSED OF BY THE STATE OR ITS CONTRACTOR. THE STATE AND ITS CONTRACTOR AGREE TO FULLY COMPLY WITH ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL LAWS, REGULATIONS, STATUTES AND ORDINANCES AT ALL TIMES.

CSXT MAY REQUIRE FULL TIME RAILROAD FLAGGING FOR ANY PROJECT TASKS THAT MAY HAVE THE POTENTIAL TO FOUL THE TRACK OR CAUSE A HAZARD TO TRAIN MOVEMENTS.

CSXT HAS SOLE AUTHORITY TO DETERMINE THE NEED FOR TRACK PROTECTION REQUIRED TO PROTECT ITS OPERATIONS AND PROPERTY. IN GENERAL, TRACK PROTECTION WILL BE REQUIRED WHENEVER CONTRACTOR OR EQUIPMENT ARE, OR ARE LIKELY TO BE, WORKING WITHIN FIFTY (50) FEET OF TRACK OR OTHER TRACK CLEARANCES AS SPECIFIED BY CSXT.

UPON COMPLETION OF THE WORK ON CSXT PROPERTY, THE CONTRACTOR SHALL REQUEST THE OWNER TO ARRANGE A FINAL INSPECTION OF THE PROJECT WITH THE RAILROAD'S PROJECT ENGINEER OR THEIR AUTHORIZED REPRESENTATIVE.

2

DESIGN AGENCY











DESIGNER  
CMB

REVIEWER  
CFD 02-06-23

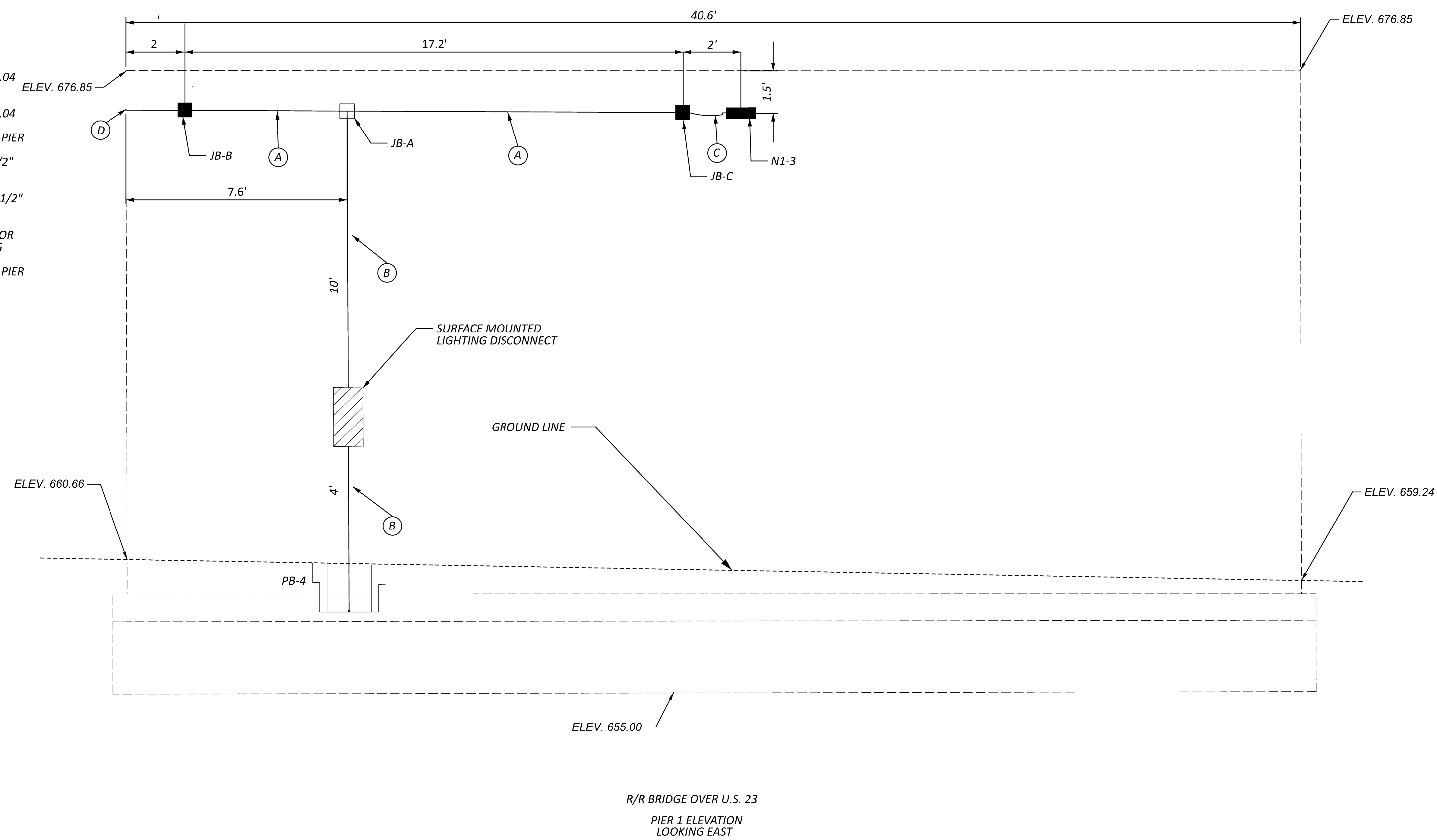
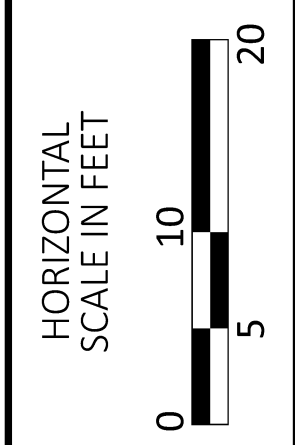
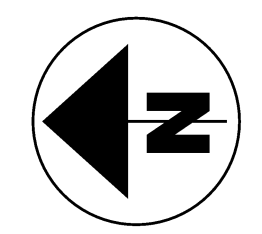
PROJECT ID  
115446

SHEET TOTAL  
P.02A P.20

LEGEND

-  UNDERPASS LUMINAIRE SURFACE MOUNTED, N1-3
-  SURFACE MOUNTED JUNCTION BOX 6" X 6" MOUNTED ON THE WEST SIDE OF THE PIER, JB-B, JB-C
-  SURFACE MOUNTED JUNCTION BOX 6" X 6" MOUNTED ON THE EAST SIDE OF THE PIER, JB-A
-  CONDUIT 1 1/2", 725.04 SURFACE MOUNTED
-  CONDUIT 1 1/2", 725.04 SURFACE MOUNTED ON THE EAST SIDE OF PIER
-  FLEXIBLE CONDUIT 1/2" SURFACE MOUNTED
-  FLEXIBLE CONDUIT 1 1/2" SURFACE MOUNTED
-  DISCONNECT SWITCH FOR UNDERPASS LIGHTING SURFACE MOUNTED ON THE EAST SIDE OF PIER

NOTE: CONTRACTOR ARE RESPONSIBLE FOR THE MEANS AND METHODS FOR ATTACHING THE JUNCTION BOX TO THE RAILROAD PIER PER ODOT STANDARDS. THE MAXIMUM DEPTH OF THE ENTRY HOLE SHOULD NOT BE OVER 2" IN DEPTH. THE EDGE OF THE REBAR IS 3" FROM THE EDGE OF THE PIER FACE.










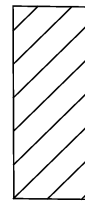
UNDERPASS LIGHTING DETAILS  
 ROS-23-13.06 PIER 1 ELEVATION



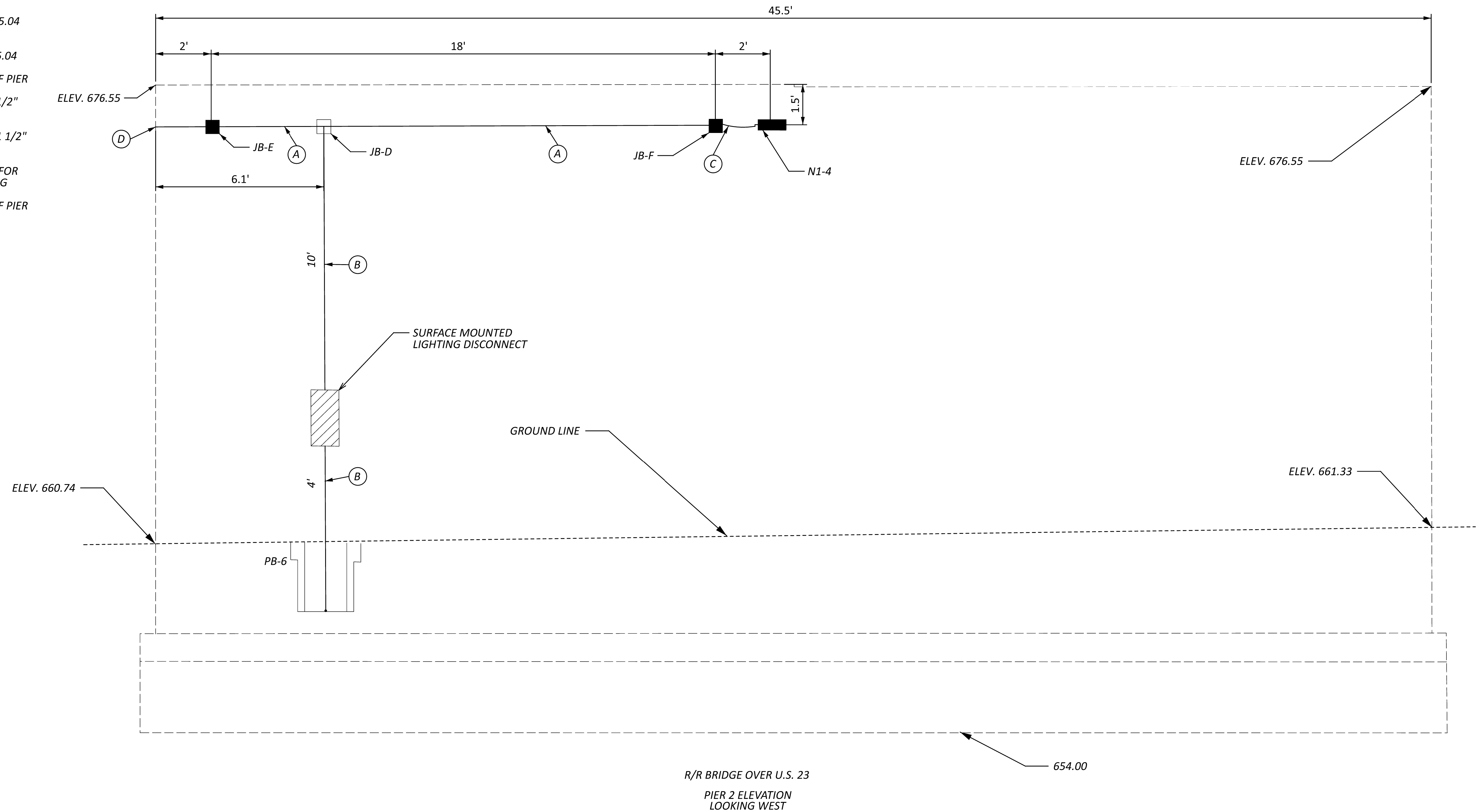
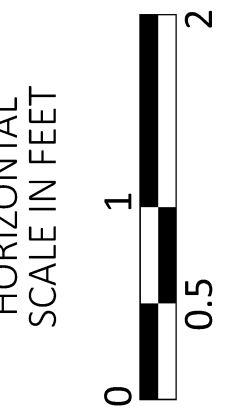
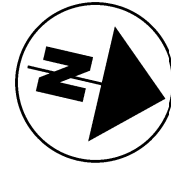
DESIGN AGENCY	143 Engineers
DESIGNER	CDS
REVIEWER	CFD
PROJECT ID	115446
SHEET	P.19
TOTAL	20



LEGEND

-  UNDERPASS LUMINAIRE SURFACE MOUNTED, N1-4
-  SURFACE MOUNTED JUNCTION BOX 6" X 6" MOUNTED ON THE WEST SIDE OF THE PIER, JB-E, JB-F
-  SURFACE MOUNTED JUNCTION BOX 6" X 6" MOUNTED ON THE EAST SIDE OF THE PIER, JB-D
-  CONDUIT 1 1/2", 725.04 SURFACE MOUNTED
-  CONDUIT 1 1/2", 725.04 SURFACE MOUNTED ON THE EAST SIDE OF PIER
-  FLEXIBLE CONDUIT 1/2" SURFACE MOUNTED
-  FLEXIBLE CONDUIT 1 1/2" SURFACE MOUNTED
-  DISCONNECT SWITCH FOR UNDERPASS LIGHTING SURFACE MOUNTED ON THE EAST SIDE OF PIER

NOTE: CONTRACTOR ARE RESPONSIBLE FOR THE MEANS AND METHODS FOR ATTACHING THE JUNCTION BOX TO THE RAILROAD PIER PER ODOT STANDARDS. THE MAXIMUM DEPTH OF THE ENTRY HOLE SHOULD NOT BE OVER 2" IN DEPTH. THE EDGE OF THE REBAR IS 3" FROM THE EDGE OF THE PIER FACE.



UNDERPASS LIGHTING DETAILS  
 ROS-23-13.06, PIER 2 ELEVATION



DESIGNER	CDS
REVIEWER	CFD
PROJECT ID	115446
SHEET	P.20
TOTAL	P.20