

PREPARED BY THE CONSULTING FIRM OF

**TYLIN**INTERNATIONAL DOVER, DELAWARE



08/20/2018

**RECOMMENDED** 

9 MG lustos

08/27/2018

# THE STATE OF DELAWARE **DEPARTMENT OF TRANSPORTATION**



**CONSTRUCTION PLANS FOR:** 

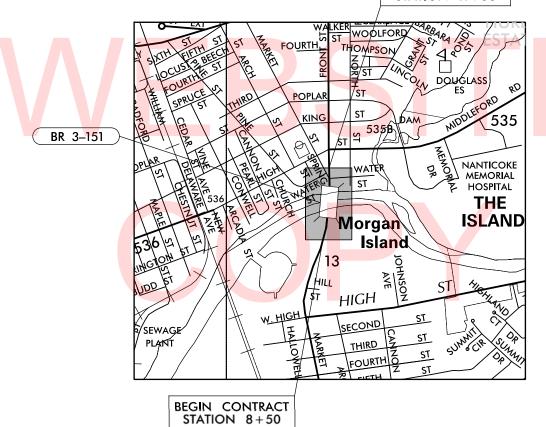
# STRUCTURE MAINTENANCE CONTRACT BRIDGE 3-151, FY19

CONTRACT NUMBER: T201807601 FEDERAL AID PROJECT NUMBER: EBHOS-013(05)

COUNTY: SUSSEX

M.R. #: S13

END CONTRACT **STATION** 11 + 50



#### PROJECT LOCATION

**RECOMMENDED** 

Styrm ORuli BRIDGE MAINTENANCE ENGINEER

DATE \_\_\_08/21/2018



**RECOMMENDED** 



DATE \_\_\_08/28/2018



RECOMMENDED

**U.S. CUSTOMARY** 

**UNITS** 

ASSISTANT DIRECTOR, BRIDGE

DATE \_\_\_08/28/2018



CONTRACT NO.

**APPROVED** 

DESIGN DESIGNATION

INDEX OF SHEETS TABLE OF CONTENTS

YEAR:

INDEX OF DRAWINGS, LOAD RATINGS AND QUANTITIES

TRUNNION TIE PLATE REPAIR DETAIL & MISC. REPAIR DETAILS

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN

TOTAL SHEETS: 14

APPROVED DESIGN EXCEPTIONS

**ADDENDA & REVISIONS** 

**ASSOCIATED CONTRACTS** 

TRUNNION BASCULE BRIDGE OVER NANTICOKE RIVER

REHABILITATION OF SEAFORD MOVABLE BRIDGE

DESIGN SPEED: 30 M.P.H.

DIRECTION OF DISTRIBUTION: %

FUNCTIONAL CLASS: MAJOR COLLECTOR

LEGEND

DETOUR PLAN

DESIGN PARAMETER

GENERAL AND PROJECT NOTES

BRIDGE PLAN AND ELEVATION

ENVIRONMENTAL COMPLIANCE PLAN

PEDESTRIAN DETOUR PLAN

A.A.D.T. CURRENT: 12210

A.A.D.T. PROJECTED:

SHEET Nº

TYPE OF CONSTRUCTION: BRIDGE REHABILITATION

DATE \_\_\_08/28/2018

DATE

SEAFORD BRIDGE REFLOORING

# **EXISTING SYMBOLS**

DRAINAGE		
	DITCH OR STREAM CENTERLINE	
	DIRECTIONAL STREAM FLOW ARROW	
C.B. D.I.	DRAINAGE INLET	
J.B.	DRAINAGE JUNCTION BOX	
0	DRAINAGE MANHOLE	
SIZE/TYPE_LABEL	DRAINAGE PIPE AND FLOW ARROW	
	DRAINAGE PIPE HEADWALL	
	RIPRAP - AREA FEATURE	
<b>∞</b>	RIPRAP - LINEAR FEATURE	

BOLLARD - STEEL POLE  BOLLARD - WOOD POST  CURB  CURB AND GUTTER  FENCE - CHAINLINK OR STRANDED  FENCE - STOCKADE OR SPLIT RAIL  FLAG POLE  GUARDRAIL - STEEL BEAM  GUARDRAIL - WIRE ROPE
CURB  CURB AND GUTTER  FENCE - CHAINLINK OR STRANDED  FENCE - STOCKADE OR SPLIT RAIL  FLAG POLE  GUARDRAIL - STEEL BEAM
CURB AND GUTTER  FENCE - CHAINLINK OR STRANDED  FENCE - STOCKADE OR SPLIT RAIL  FLAG POLE  GUARDRAIL - STEEL BEAM
FENCE - CHAINLINK OR STRANDED  FENCE - STOCKADE OR SPLIT RAIL  FLAG POLE  GUARDRAIL - STEEL BEAM
FENCE - STOCKADE OR SPLIT RAIL FLAG POLE GUARDRAIL - STEEL BEAM
FLAG POLE GUARDRAIL - STEEL BEAM
GUARDRAIL - STEEL BEAM
GUARDRAIL - WIRE ROPE
LAMP AND POST - RESIDENTIAL
MAILBOX
PARKING METER AND POST
PAVEMENT - FLEXIBLE
PAVEMENT - RIGID
PILE - BRIDGE
PILLAR OR MISCELLANEOUS POST
TRAFFIC SIGN AND POST
WALL - BRICK OR BLOCK

NATURAL ROADSIDE FEATURES	
7/V	GRASS LAWN
ananana	HEDGEROW OR THICKET
	MARSH BOUNDARY LINE
*	TREE - CONIFEROUS
	TREE - DECIDUOUS
я	TREE STUMP
<b>©</b>	SHRUBBERY
	DELINEATED WETLAND BOUNDARY LINE
	WOODS LINE BOUNDARY

ı	RIGHT-OF-WAY SYMBOLS
C.M.	PROPERTY MARKER - CONCRETE MON.
I.P.	PROPERTY MARKER - IRON PIPE
100+00	HISTORIC RIGHT-OF-WAY BASELINE
	EXISTING RIGHT-OF-WAY
—— <del>—</del> ——	EXISTING PROPERTY LINE
EASEMENT TYPE	EXISTING EASEMENT
——— DA ———	EXISTING DENIAL OF ACCESS
	EXISTING R/W & DENIAL OF ACCESS

SURVEY C	ONTROL & MONUMENTATION
В.М.	SURVEY BENCHMARK LOCATION
T.P.	SURVEY TIE POINT LOCATION
$\triangle$	SURVEY TRAVERSE POINT
0	POINT OF CURVATURE OR TANGENCY
<b>©</b>	POINT OF INTERSECTING TANGENTS

<b>.</b>	POINT OF INTERSECTING TANGENTS
	UTILITY
•	SOIL BORING LOCATION
•	UTILITY TEST HOLE LOCATION
TV	CABLE TV DISTRIBUTION BOX
E	ELECTRIC MANHOLE
EM	ELECTRIC METER
E	ELECTRIC TRANSFORMER
<u> </u>	POLE MOUNTED LUMINAIRE
©	GAS MANHOLE
G.M.	GAS METER
G.V.	GAS VALVE
G.P.	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
S	SANITARY SEWER MANHOLE
S.V.	SANITARY SEWER VALVE
SÇO	SANITARY SEWER CLEANOUT OR VENT
[S.D.F]	SEPTIC DRAIN FIELD
В	TELEPHONE BOOTH
	TELEPHONE MANHOLE
T	TELEPHONE TEST POINT
J.W.	TRAFFIC - CONDUIT JUNCTION WELL
(0)	TRAFFIC - LIGHT POLE AND BASE
	TRAFFIC - PEDESTRIAN POLE & BASE
	TRAFFIC - SIGNAL CABINET & BASE
⊗	TRAFFIC - SIGNAL POLE AND BASE
U	UTILITY BOX
o→	UTILITY POLE GUY WIRE ANCHOR
Ø	UTILITY POLE
F.H.	WATER - FIRE HYDRANT
W.M.	WATER METER
W.V.	WATER VALVE
WELL	WELL HEAD
?	MANHOLE - UNDETERMINED OWNER

UTILITY COMPANY FACILITIES		
—— CS-S ——	CITY OF SEAFORD (SEWER)	
CS-W	CITY OF SEAFORD (WATER)	
—— DP-E ——	DELMARVA POWER (ELECTRIC)	
—— G ——	UNKNOWN (GAS)	

# PROPOSED SYMBOLS

		1 1101	OOLD CIMIDO
	CONSTRUCTION		IDENTIFIERS
	CONCRETE SAFETY BARRIER - PERMANENT	A C	ADJUST BY CONTRACTOR
——BFS——×	BIOFILTRATION SWALE	A	ADJUST BY OTHERS
	BRICK PATTERNED SURFACE	<u>B</u>	CONCRETE SAFETY BARRIER
	BUTT JOINT	<u>©</u>	CURB OR CURB & GUTTER
cz	CLEAR ZONE	<u>CJB</u>	CONVERT TO JUNCTION BOX
100+00	CONSTRUCTION BASELINE	<u>CMH</u>	CONVERT TO DRAINAGE MANHO
CSF	CONSTRUCTION SAFETY FENCE	6	CURB OPENING
	CURB, TYPE 1 & TYPE 3	<u>CR</u>	CURB RAMP / TYPE
	CURB, TYPE 2	(CR-N)	CURB RAMP / TYPE - WITHOUT S
	CURB & GUTTER, TYPE 1	<u>(SP</u>	CONSTRUCTION SAFETY FENCE
	CURB & GUTTER, TYPE 2	DI	DRAINAGE INLET
	CURB & GUTTER, TYPE 3	(DND)	DO NOT DISTURB
	CURB & GUTTER, TYPE 4	(ED)	ENERGY DISSIPATOR
<b>_</b>	CURB OPENING	F	FENCE
-	DRAINAGE INLET	(FES)	FLARED END SECTION
÷×	DITCH	FF C	FILL WITH FLOWABLE FILL
· · · ·	FENCE - METAL	FS	FILTRATION STRUCTURE
•	FENCE - WOOD	<u>GR</u>	GUARDRAIL
	FLARED END SECTION	JB)	JUNCTION BOX
* * *	GUARDRAIL, TYPE 1	MH	MANHOLE
* * * * * *	GUARDRAIL, TYPE 2	M	MONUMENT - RIGHT-OF-WAY
X X X	GUARDRAIL, TYPE 3	P	PIPE
Cn h	GUARDRAIL END ANCHORAGE	(RL) C	RELOCATE BY CONTRACTOR
	GUARDRAIL END TREATMENT, TYPE 1	(RL)	RELOCATE BY OTHERS
	GUARDRAIL END TREATMENT, TYPE 2	(RL) PO	RELOCATE BY PROPERTY OWN
	GUARDRAIL END TREATMENT, TYPE 3	RMC	REMOVE BY CONTRACTOR
	IMPACT ATTENUATOR	RM TC	REMOVE BY TRAFFIC CONTRAC
	JUNCTION BOX - DRAINAGE	RMO	REMOVE BY OTHERS
	LATERAL OFFSET	Øb.	UNDERDRAIN / LENGTH
LOC	LIMIT OF CONSTRUCTION	(IDD)	UNDERDRAIN OUTLET PIPE
MB <b>I</b>	MAILBOX		
•	MANHOLE	18	LANDSCAPING
	PAVEMENT PATCH	<u>(LS)</u>	LANDSCAPE PLANTINGS
		/* <b>*\</b>	

(A)	ADJUST BY CONTRACTOR	
(A)	ADJUST BY OTHERS	
<u>B</u>	CONCRETE SAFETY BARRIER	
Č.	CURB OR CURB & GUTTER	
<u> </u>	CONVERT TO JUNCTION BOX	
<u>CM</u> +)	CONVERT TO DRAINAGE MANHOLE	
Co	CURB OPENING	
<u>CR</u>	CURB RAMP / TYPE	
(CR-N)	CURB RAMP / TYPE - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	
<u>(SF</u>	CONSTRUCTION SAFETY FENCE	
<u>Di</u>	DRAINAGE INLET	
DND	DO NOT DISTURB	
(ED)	ENERGY DISSIPATOR	
(F)	FENCE	
	FLARED END SECTION	
FF C	FILL WITH FLOWABLE FILL	
	FILTRATION STRUCTURE	
<u>GR</u>	GUARDRAIL	
<b>₽</b>	JUNCTION BOX	
MH	MANHOLE	
M	MONUMENT - RIGHT-OF-WAY	
P	PIPE	
(RL) C	RELOCATE BY CONTRACTOR	
(RLO)	RELOCATE BY OTHERS	
RL	RELOCATE BY PROPERTY OWNER	
RMC	REMOVE BY CONTRACTOR	
RM	REMOVE BY TRAFFIC CONTRACTOR	
RM	REMOVE BY OTHERS	
	UNDERDRAIN / LENGTH	
<u> UDO</u>	UNDERDRAIN OUTLET PIPE	

TC	REMOVE BY TRAFFIC CONTRACTOR	
RM	REMOVE BY OTHERS	
	UNDERDRAIN / LENGTH	
	UNDERDRAIN OUTLET PIPE	
LANDSCAPING		
<u>(IS)</u>	LANDSCAPE PLANTINGS	
	SHRUBBERY	
$\otimes$	CONIFEROUS TREE	
$\overline{\left(\cdot\right)}$	DECIDUOUS TREE	
	BESIDOGG TILE	

TRAFFIC	
ITMS-CON	ITMS CONDUIT
SIG-CON	SIGNAL CONDUIT
•	CONDUIT JUNCTION WELL
	LUMINAIRE
<b>→</b>	PAVEMENT MARKINGS
	PAVEMENT STRIPING
	TRAFFIC SIGN

EROSIO	N & SEDIMENT CONTROL
—— CFL——	COMPOST FILTER LOG
-DWBAG	DEWATERING BAG
- DWB	DEWATERING BASIN
ED	EARTH DIKE
	INLET SEDIMENT CONTROL
·=====================================	PERIMETER DIKE/SWALE
· · · · · · · · · · · · · · · · · · ·	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB SB	SANDBAG DIVERSION
	STONE CHECK DAM
SCE SCE	STABILIZED CONSTRUCTION ENTRANCE
<u>SF</u>	SILT FENCE / LENGTH
——SF——	SILT FENCE
RSF	SILT FENCE - REINFORCED
SP	SUMP PIT
<u> </u>	SEDIMENT TRAP / NUMBER
ST	SEDIMENT TRAP
<b>S</b>	SEDIMENT TRAP WITH INLET AS OUTLET
<u></u>	SEDIMENT TRAP PIPE OUTLET
SW	STILLING WELL
·====	TEMPORARY SWALE
<i>TSD</i>	TEMPORARY SLOPE DRAIN
	TURBIDITY CURTAIN / LENGTH
	TURBIDITY CURTAIN

**DELAWARE** DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

STRUCTURE MAINTENANCE CONTRACT, BRIDGE 3–151, FY19

BR 3-151 T201807601 DESIGNED BY: JWS COUNTY SUSSEX CHECKED BY: DEF

**LEGEND** 

OTAL SHTS

NOT TO SCALE

PAVEMENT REMOVAL -TOPSOIL, SEED AND MULCH

UNDERDRAIN

--- PE---- PROPOSED PERMANENT EASEMENT

---TCE--- TEMPORARY CONSTRUCTION EASEMENT

RIPRAP

100+00

- PIPE & DIRECTIONAL FLOW ARROW

RIGHT-OF-WAY SYMBOLS

PROPOSED DENIAL OF ACCESS

PROPOSED RIGHT-OF-WAY MONUMENT

PROPOSED RIGHT-OF-WAY BASELINE

P.C.C. SIDEWALK - 6" (USE 8" DEPTH FOR CHANNELIZATION ISLANDS.)

P.C.C. SIDEWALK - 4"

UNDERDRAIN OUTLET

# GENERAL NOTES

- 1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2016 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2017, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.
- ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR, INCLUDE:

( )	NONE
( )	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
(X)	ALL PLAN SHEETS, IN PDF FORMAT.
( )	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
( )	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
( )	DESIGN FILE, IN .DGN FILE FORMAT, CONTAINING ONLY THE PROPOSED 3D TRIANGLES OF THE PROPOSED DIGITAL TERRAIN MODEL (DTM).

NOTE: THE DOCUMENT ENTITLED "RELEASE FOR DELIVERY OF DOCUMENTS IN ELECTRONIC FORM TO A CONTRACTOR" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

3. PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR. INCLUDE:

( )	CROSS SECTIONS
( )	RIGHT-OF-WAY PLANS (WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR)

# BRIDGE PROJECT NOTES

### SECTION 100

1. ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

### SECTION 200

- 2. ITEMS TO BE REMOVED UNDER ITEM 211000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
  - a. WOOD PLANK SIDEWALKS
  - b. WOOD SIDEWALK STRINGERS AND ATTACHMENT ANGLES

### SECTION 600

3. STRUCTURAL STEEL:

PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M270 (ASTM A709), GRADE 36, EXCEPT WHEN NOTED OTHERWISE.

PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH AASHTO/AWS D1.5 BRIDGE WELDING CODE AND CONTRACT DOCUMENTS. MAKE TACK WELDS WITH THE SAME TYPE OF ELECTRODE AND INCORPORATE IN THE FINAL WELD.

ALL BOLTED CONNECTIONS SHALL BE MADE WITH ASTM A325. TYPE 1. HIGH STRENGTH BOLTS UNLESS OTHERWISE NOTED. NUTS SHALL MEET ASTM A563 AND WASHER SHALL MEET ASTM F436.

STRUCTURAL STEEL DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT CONTRACTOR'S SOLE EXPENSE.

COATINGS:

ALL EXISTING STRUCTURAL STEEL AS DIRECTED IN THE PLANS. SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH ITEM 616000 - CLEANING AND PAINTING EXISTING STEEL.

PAINTING OF NEW STRUCTURAL STEEL SHALL BE INCIDENTAL TO ITEM 615001 - STEEL STRUCTURES AND ITEM 615006 - STEEL STRUCTURES REPAIR.

THE FINAL COLOR SHALL BE FEDERAL STANDARD COLOR NO. 24172 (GREEN) OF FED-STD-595C, OR MATCH EXISTING. THE COLOR SHALL BE SUBMITTED FOR APPROVAL.

NOTE THAT THE EXISTING PAINT MAY CONTAIN LEAD.

## SECTION 800

5. MAINTENANCE OF TRAFFIC: MAINTENANCE OF TRAFFIC WILL BE IN ACCORDANCE WITH THE APPROVED DETOUR PLAN. ALL MOT ITEMS WILL BE INCLUDED IN ITEM 801500 - MAINTENANCE OF TRAFFIC, ALL INCLUSIVE.

# **MISCELL** ANEOUS

- 6. DESIGN SPECIFICATIONS:
  - 2017 DELDOT BRIDGE DESIGN MANUAL
  - 2014 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH ED., U.S. CUSTOMARY UNITS
  - PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH THE 2016 DELDOT STANDARD **SPECIFICATIONS**

#### 7. EXISTING CONDITIONS:

ALL EXISTING DIMENSIONS AND ELEVATIONS ARE BASED ON THE BEST AVAILABLE INFORMATION AND ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, GEOMETRY, AND ELEVATIONS AS NECESSARY PRIOR TO ORDERING ANY MATERIALS AND COMMENCING CONSTRUCTION TO ENSURE PROPER FIT OF THE PROPOSED CONSTRUCTION, PAYMENT SHALL BE INCIDENTAL TO ITEM 763501 - CONSTRUCTION ENGINEERING.

THE CONTRACTOR SHALL NOT CONSIDER ANY OF THE DATA ON THE EXISTING STRUCTURE SUPPLIED IN THE ORIGINAL DESIGN DRAWINGS OR MADE AVAILABLE BY THE DEPARTMENT OR ITS AUTHORIZED AGENTS AS ACCURATE REPRESENTATION OF ANY OF THE CONDITIONS THAT WILL BE ENCOUNTERED IN THE FIELD.

THE INFORMATION SHOWN ON THESE PLANS FOR THE EXISTING BRIDGE MAY NOT BE ACCURATE AND SHOULD NOT BE CONSIDERED THE SOLE BASIS FOR COMPUTATION OF UNIT PRICES FOR BIDDING PURPOSED. THE CONTRACTOR SHALL ASSUME THAT CONDITIONS AFFECTING THE COST AND/OR QUANTITITES OF THE WORK TO BE PERFORMED MAY DIFFER FROM THOSE INDICATED AND MAY NEED TO BE VERIFIED.

PLANS OF THE EXISTING STRUCTURE ARE AVAILABLE AND CAN BE OBTAINED THROUGH THE DEPARTMENT, ALL STATIONING AND DIMENSIONS SHOWN ON THESE DRAWINGS WERE TAKEN FROM THE EXISTING PLANS AND SHOWN BE VERIFIED IN THE FIELD. THE EXISTING PLANS ARE AS FOLLOWS:

CONTRACT NO. **DESCRIPTION** SEAFORD BRIDGE *42B* TRUNNION BASCULE BRIDGE OVER NANTICOKE RIVER SEAFORD BRIDGE REFLOORING 67-10-005 REHABILITATION OF SEAFORD MOVABLE BRIDGE 89-076-02 REHABILITATION OF BRIDGE NO. 151 AT SEAFORD, DELAWARE

#### UTILITIES:

SEE UTILITY STATEMENT FOR FURTHER INFORMATION ON UTILITY COORDINATION.

9. RIGHT-OF-WAY:

ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY.

10. LOAD RATING:

LOAD RATING PERFORMED USING LOAD AND RESISTANCE FACTOR RATING METHOD.

- 11. STORAGE OR STOCKPILING OF MATERIALS OR EQUIPMENT ON THE BRIDGE DECK IS PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF THE ENGINEER. TO REQUEST STORAGE OR STOCKPILING AREAS ON THE BRIDGE, THE CONTRACTOR SHALL SUBMIT THE SPECIFIC LOCATIONS, DIMENSIONS, AND WEIGHTS OF EQUIPMENT OR MATERIALS TO BE STORED, REFER TO DELDOT STANDARD SPECIFICATIONS SECTION 104.16.
- 12. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE. OR WHICH ARE TO REMAIN THE PROPERTY OF THE STATE. WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE OR WHICH ARE TO REMAIN THE PROPERTY OF THE STATE, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- 13. THE CONTRACTOR SHALL CONTACT THE CHIEF OF SCHEDULING FOR DART FIRST STATE, 14 DAYS TO THE START OF CONSTRUCTION AT 302-576-6191.
- 14. CONSTRUCTION SCHEDULE:

PHASE 1 OF THIS PROJECT TO BEGIN AFTER THE END OF THE SCHOOL YEAR ON JUNE 17, 2019 AND MUST BE COMPLETE BEFORE JULY 12, 2019. THE BRIDGE MUST BE FULLY OPEN AND OPERATIONAL FOR VEHICLE, PEDESTRIAN AND MARINE TRAFFIC FOR NANTICOKE RIVERFEST ON JULY 13, 2019. PHASE 2 OF THIS PROJECT TO BEGIN AFTER NANTICOKE RIVERFEST ON JULY 15, 2019 AND MUST BE COMPLETE BEFORE THE BEGINNING OF THE SCHOOL YEAR ON AUGUST 26, 2019.



NTRACT	BRIDGE NO.	BR 3-151	
1007001		DIT 0 101	
1807601	DESIGNED BY: JWS		
YTNUC	DESIGNED DIO	UWS	
JSSEX	CHECKED BY: I	DEF	

LOAD RATING SUMMARY (BRIDGE 3-151)							
DESIGN VEHICLE	RATING FACTOR	RATING WEIGHT (TON)	CONTROLLING MEMBER	CONTROLLING POINT	LOAD EFFECT		
HL-93 TRUCK (INVENTORY)	0.97	N/A	SPAN 3: GIRDER	106	FLANGE STRESS		
HL-93 TANDEM (INVENTORY)	0.88	N/A	SPAN 3: INTERIOR FLOORBEAM	105	FLEXURE		
HS-20 (INVENTORY)	1.08	38.71	SPAN 3: INTERIOR STRINGER	105	FLEXURE		
HL-93 TRUCK (OPERATING)	1. 26	N/A	SPAN 3: GIRDER	106	FLANGE STRESS		
HL-93 TANDEM (OPERATING)	1.14	N/A	SPAN 3: INTERIOR FLOORBEAM	105	FLEXURE		
HS-20 (OPERATING)	1.39	50.19	SPAN 3: INTERIOR STRINGER	105	FLEXURE		
DE S220 (LEGAL)	1.97	<i>39.50</i>	SPAN 3: GIRDER	106	FLANGE STRESS		
DE S335 (LEGAL)	1.11	3 <mark>8.8</mark> 8	SPAN 3: GIRDER	106	FLANGE STRESS		
DE S437 (LEGAL)	1.05	<i>3</i> 8.64	SPAN 3: GIRDER	106	FLANGE STRESS		
DE T330 (LEGAL)	1.73	5 <mark>1.</mark> 77	SPAN 3: GIRDER	106	FLANGE STRESS		
DE T435 (LEGAL)	1.47	51.49	SPAN 3: GIRDER	106	FLAN <mark>GE</mark> STRESS		
DE T540 (LEGAL)	1 <b>.</b> 35	<i>53. 95</i>	SPAN 3: GIRDER	106	FLANGE STRESS		

INDEX OF BRIDGE SHEETS			
SHEET NO.	TITLE		
4	INDEX OF DRAWINGS, LOAD RATINGS AND QUANTITIES		
5	BRIDGE PLAN AND ELEVATION		
6	FRAMING PLAN - SPAN 3		
7	FLOORBEAM RETROFIT DETAILS		
8	WEB PLATE REPAIR DETAILS - 1		
9	WEB PLATE REPAIR DETAILS - 2		
10	TRUNNION TIE PLATE REPAIR DETAIL & MISC. REPAIR DETAILS		
	TOTAL BRIDGE SHEETS: 7		

BRIDGE QUANTITIES					
ITEM NO.	ITEM TITLE	UNIT	QUANTITY		
211000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1		
615001	STEEL STRUCTURES	LS	1		
615004	R <mark>EPL</mark> ACING STEEL RIVETS/BOLTS	EACH	8		
615006	STEEL STRUCTURE REPAIR	LS	1		
615007	WELDING REPAIR	LF	4		
616000	CLEANING AND PAINTING EXISTING STEEL	LS	1		
616003	TESTING AND DISPOSAL OF EXISTING HAZARDOUS STEEL COATING	LS	1		
621507	TIMBER SIDEWALK (COMPOSITE)	SF	584		

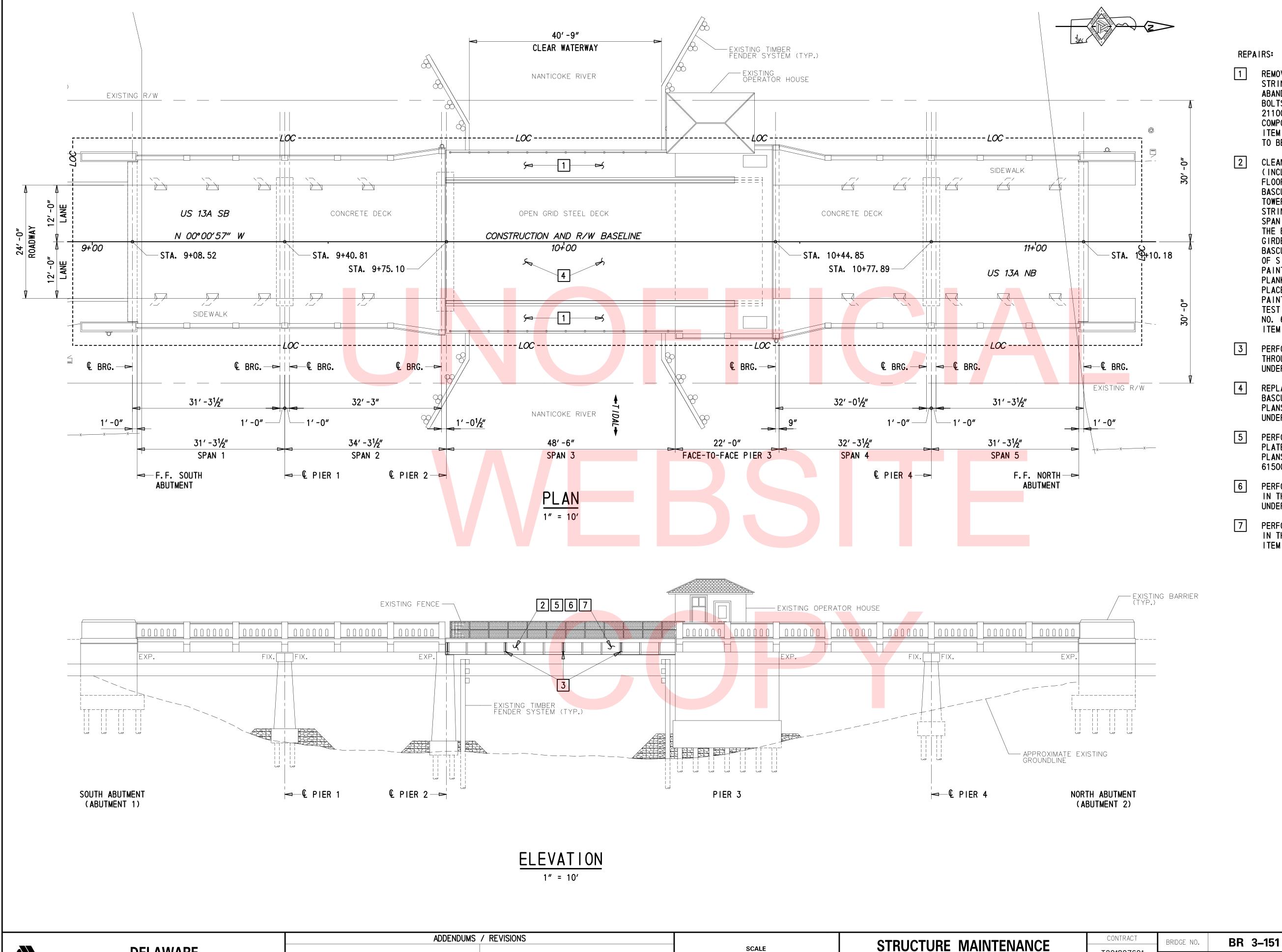
DELAWARE DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

STRUCTURE MAINTENANCE CONTRACT, BRIDGE 3-151, FY19

BR 3-151 T201807601 DESIGNED BY: JWS COUNTY CHECKED BY: DEF SUSSEX

INDEX OF DRAWINGS, LOAD RATINGS AND QUANTITIES



**SCALE** 

FEET

REPAIRS:

T201807601

COUNTY

SUSSEX

DESIGNED BY: JWS

CHECKED BY: **DEF** 

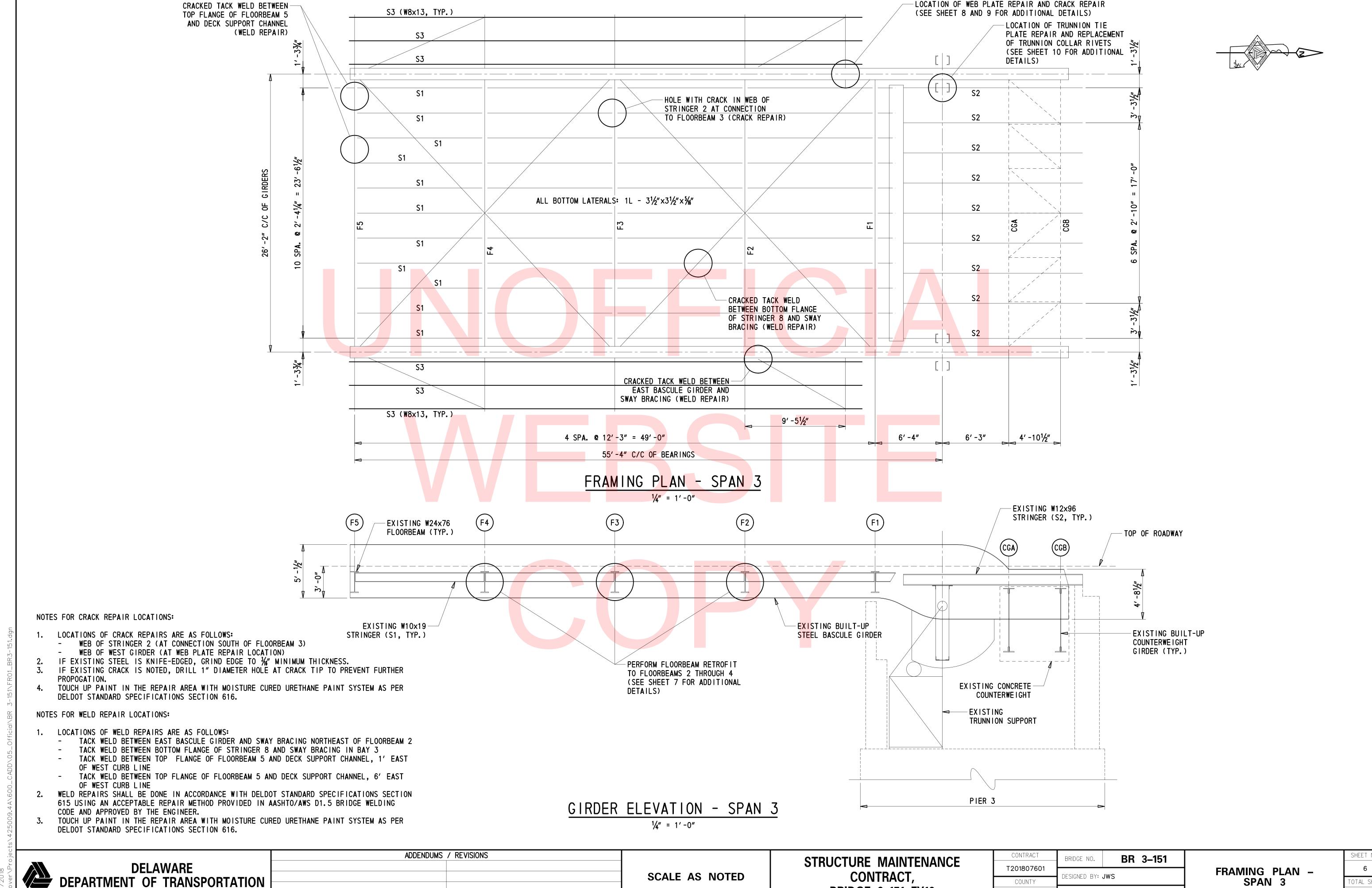
CONTRACT,

BRIDGE 3-151, FY19

- REMOVE AND REPLACE EXISTING WOOD SIDEWALK STRINGERS AND WOOD SIDEWALK PLANKING. ABANDONED BOLT HOLES TO BE FILLED WITH HS BOLTS. REMOVAL TO BE PAID UNDER ITEM NO. 211000. FURNISH AND PLACEMENT OF NEW COMPOSITE SIDEWALK PLANKING TO BE PAID UNDER ITEM NO. 621507. SIDEWALK STRINGERS AND BOLTS TO BE PAID UNDER ITEM NO. 615001.
- CLEAN AND PAINT ENTIRE STEEL BASCULE GIRDERS (INCLUDING TOP AND BOTTOM FLANGES, WEB AND FLOORBEAM CONNECTIONS), ALL FACES OF THE BASCULE RACK SUPPORTS AND TRUNNION SUPPORT TOWERS, STEEL SIDEWALK BRACKETS, SIDEWALK STRINGERS, AND SIDEWALK PEDESTRIAN RAILING IN SPAN 3. CAULK ALONG ALL BUILT-UP PORTIONS OF THE BASCULE GIRDERS AND CONNECTIONS TO GIRDERS. (MECHANICAL EQUIPMENT AND GEARING IN BASCULE PIT IS NOT TO BE PAINTED.) TOP FLANGE OF SIDEWALK BRACKETS SHALL BE CLEANED AND PAINTED AFTER REMOVAL OF EXISTING SIDEWALK PLANKING AND STRINGERS, BUT PRIOR TO PLACEMENT OF NEW SIDEWALK. CLEANING AND PAINTING TO BE PAID UNDER ITEM NO. 616000. TESTING AND DISPOSAL TO BE PAID UNDER ITEM NO. 616003. CAULKING SHALL BE INCIDENTAL TO ITEM NO. 616000.
- PERFORM FLOORBEAM RETROFIT ON FLOORBEAMS 2 THROUGH 4. FLOORBEAM RETROFIT TO BE PAID UNDER ITEM NO. 615001.
- REPLACE RIVETS WITH SECTION LOSS IN THE STEEL BASCULE GIRDERS TO THE LIMITS SHOWN IN THESE PLANS. REPLACING STEEL RIVETS TO BE PAID UNDER ITEM NO. 615004.
- PERFORM WEB PLATE REPAIR AND TRUNNION TIE PLATE REPAIR AT THE LOCATIONS SHOWN IN THESE PLANS. REPAIRS TO BE PAID UNDER ITEM NO. 615006.
- PERFORM CRACK REPAIRS AT THE LOCATIONS SHOWN IN THESE PLANS. CRACK REPAIRS TO BE PAID UNDER ITEM NO. 615006.
- PERFORM WELD REPAIRS AT THE LOCATIONS SHOWN IN THESE PLANS. WELD REPAIRS TO BE PAID UNDER ITEM NO. 615007.

**DELAWARE** 

**DEPARTMENT OF TRANSPORTATION** 

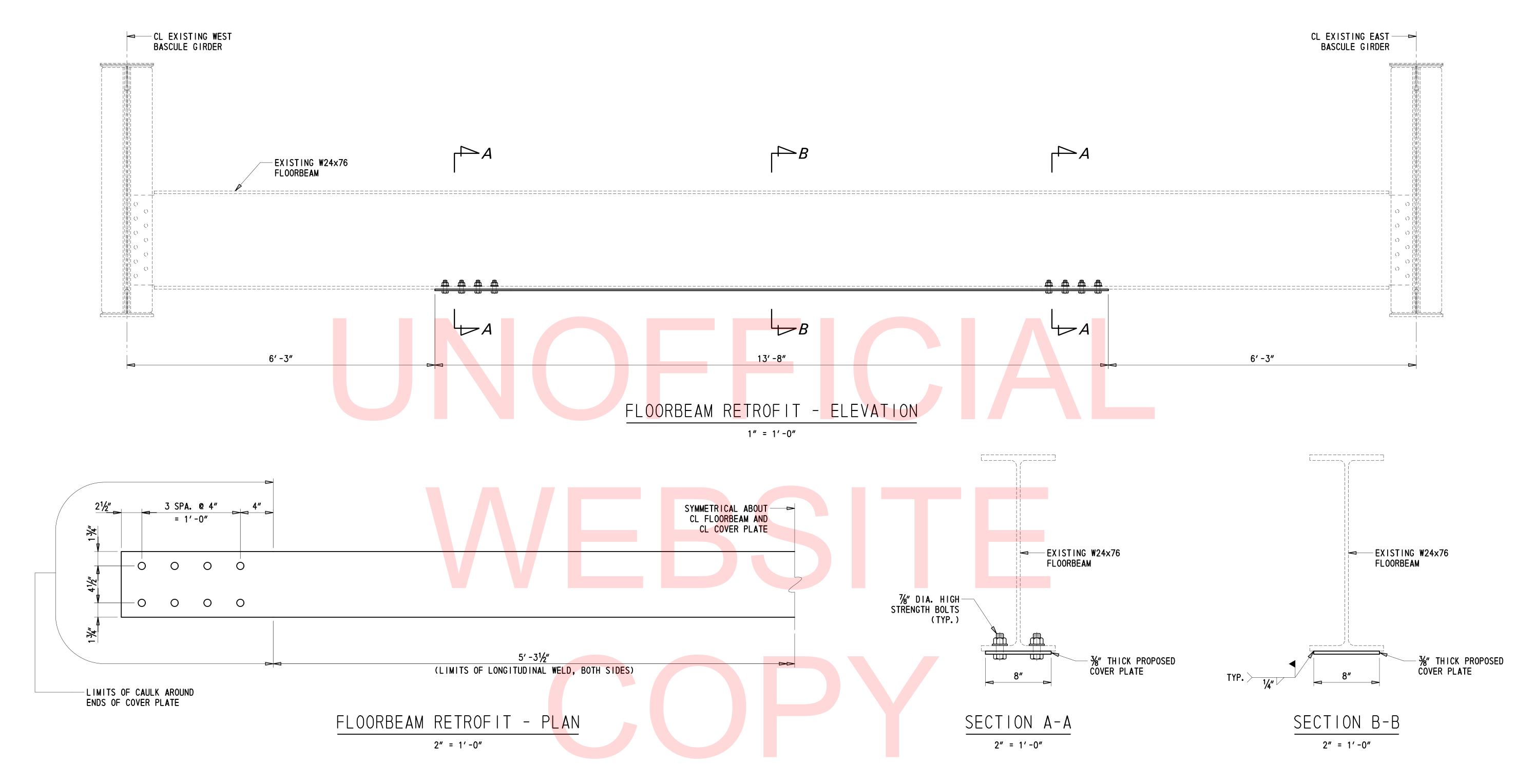


BRIDGE 3-151, FY19

CHECKED BY: **DEF** SUSSEX

SPAN 3

OTAL SHTS



### NOTES FOR FLOORBEAM RETROFIT REPAIR:

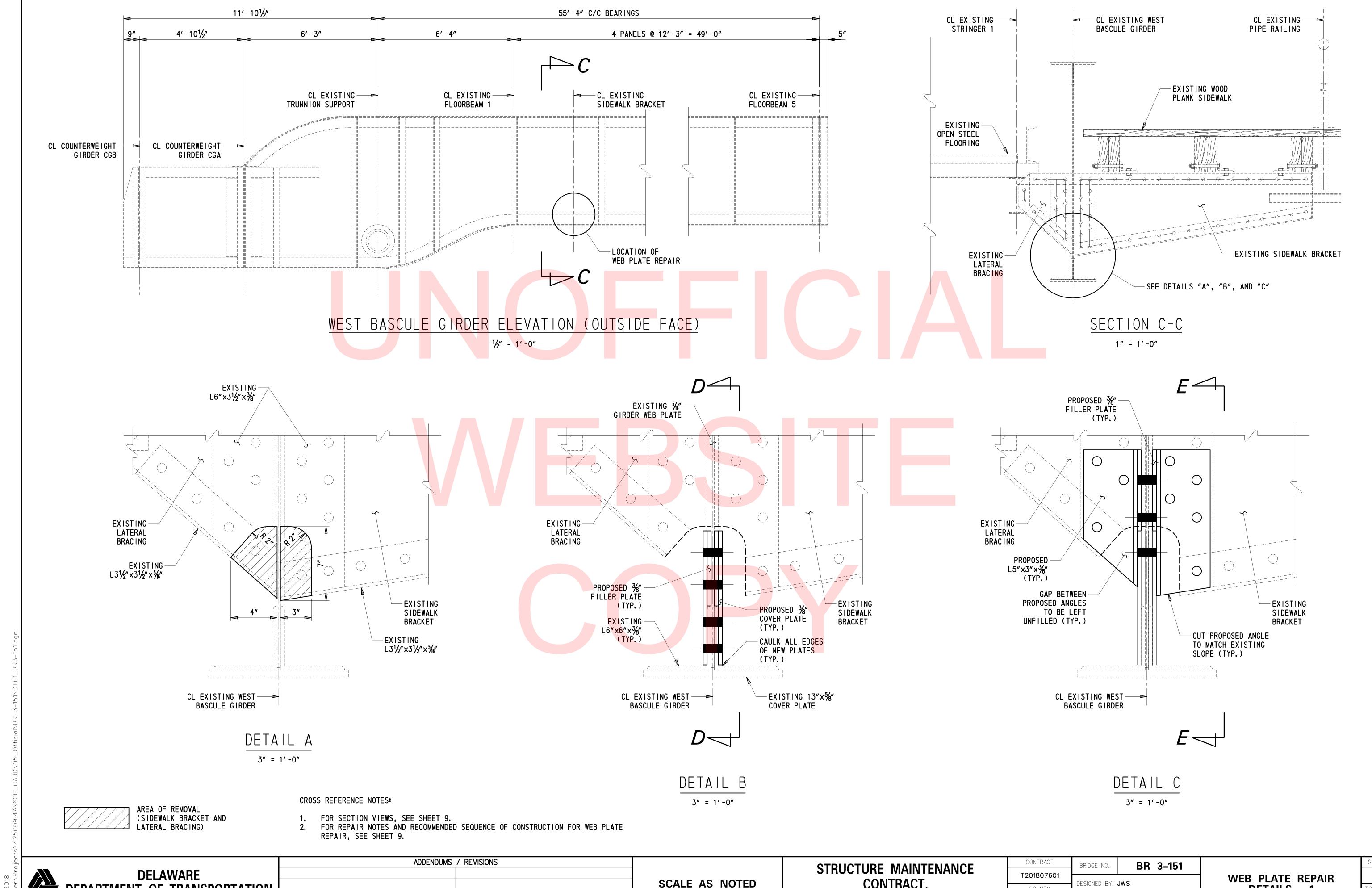
- 1. FLOORBEAM RETROFIT REPAIR APPLIES TO FLOORBEAMS 2 THROUGH 4.
- 2. ALL WORK SHALL CONFORM TO SECTION 615 OF THE DELDOT STANDARD SPECIFICATIONS.
- 3. ALL NEW STEEL PLATES SHALL CONFORM TO ASTM A709, GRADE 50.
- 4. ALL BOLTS SHALL BE 1/8" HIGH STRENGTH BOLTS IN ACCORDANCE WITH ASTM A325 TYPE 1. A HARDENED WASHER SHALL BE INSTALLED UNDERNEATH BOTH THE HEAD AND THE NUT AND SHALL BE IN CONFORMANCE WITH ASTM F436. NUTS SHALL BE IN CONFORMANCE WITH ASTM A563. BOLTS LENGTHS TO BE DETERMINED BY THE CONTRACTOR.
- 5. ALL BOLT HOLES SHALL BE 1/4". FIELD DRILLED HOLES SHALL BE GROUND OR REAMED SMOOTH TO REMOVE ROUGH EDGES OR SURFACES.
- 6. ALL EXISTING MATERIAL IN CONTACT WITH NEW MATERIAL SHALL BE CLEANED IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATIONS SECTION 616. PRIME ALL MATING SURFACES & EXPOSED STEEL PRIOR TO THE INSTALLATION OF NEW COMPONENTS. AFTER INSTALLATION, AN APPROVED MOISTURE-CURED URETHANE COATING CONFORMING TO SECTION 616 SHALL BE APPLIED TO THE REPAIRED AREA WITH A TOP COATING MATCHING THE EXISTING GIRDER COLOR.
- 7. EDGES OF NEW PLATES SHALL BE CAULKED TO THE LIMITS INDICATED IN THE PLANS.
- 8. EXISTING GIRDERS MAY CONTAIN LEAD-BASED PAINT. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTAINING AND DISPOSING OF THE MATERIALS PROPERLY IN ACCORDANCE WITH THE DELDOT STANDARD SPECIFICATIONS.

### RECOMMENDED SEQUENCE OF CONSTRUCTION FOR FLOORBEAM RETROFIT REPAIR:

- 1. PRIOR TO STARTING WORK, VERIFY DIMENSIONS OF EXISTING STEEL FOR PROPER FIT OF ALL COMPONENTS.
- DRILL HOLES IN BOTTOM FLANGE OF FLOORBEAMS THAT ARE TO BE RETROFITTED.
   BLAST CLEAN FAYING SURFACE TO REMOVE LOOSE DIRT, RUST, AND DEBRIS.
- PRIME ALL MATING SURFACES AND EXPOSED STEEL.

  4. BOLT NEW STEEL COVER PLATE ON FLOORBEAMS.
- 5. WELD INTERFACE OF FLOORBEAM BOTTOM FLANGE AND COVER PLATE TO THE
- LIMITS INDICATED IN THE PLANS.
- CAULK REMAINING EDGES OF NEW COVER PLATE.
   APPLY URETHANE COATING AND TOP COAT TO BOTTOM FLANGE OF FLOORBEAM AND COVER PLATE.

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE AS NOTED	STRUCTURE MAINTENANCE CONTRACT, BRIDGE 3-151 EV19	CONTRACT BRIDGE NO. BR 3-151  COUNTY  DESIGNED BY: JWS	FLOORBEAM RETROFIT DETAILS	SHEET NO. 7 TOTAL SHTS.
			BRIDGE 3-151, FY19	SUSSEX CHECKED BY: DEF		14



**DEPARTMENT OF TRANSPORTATION** 

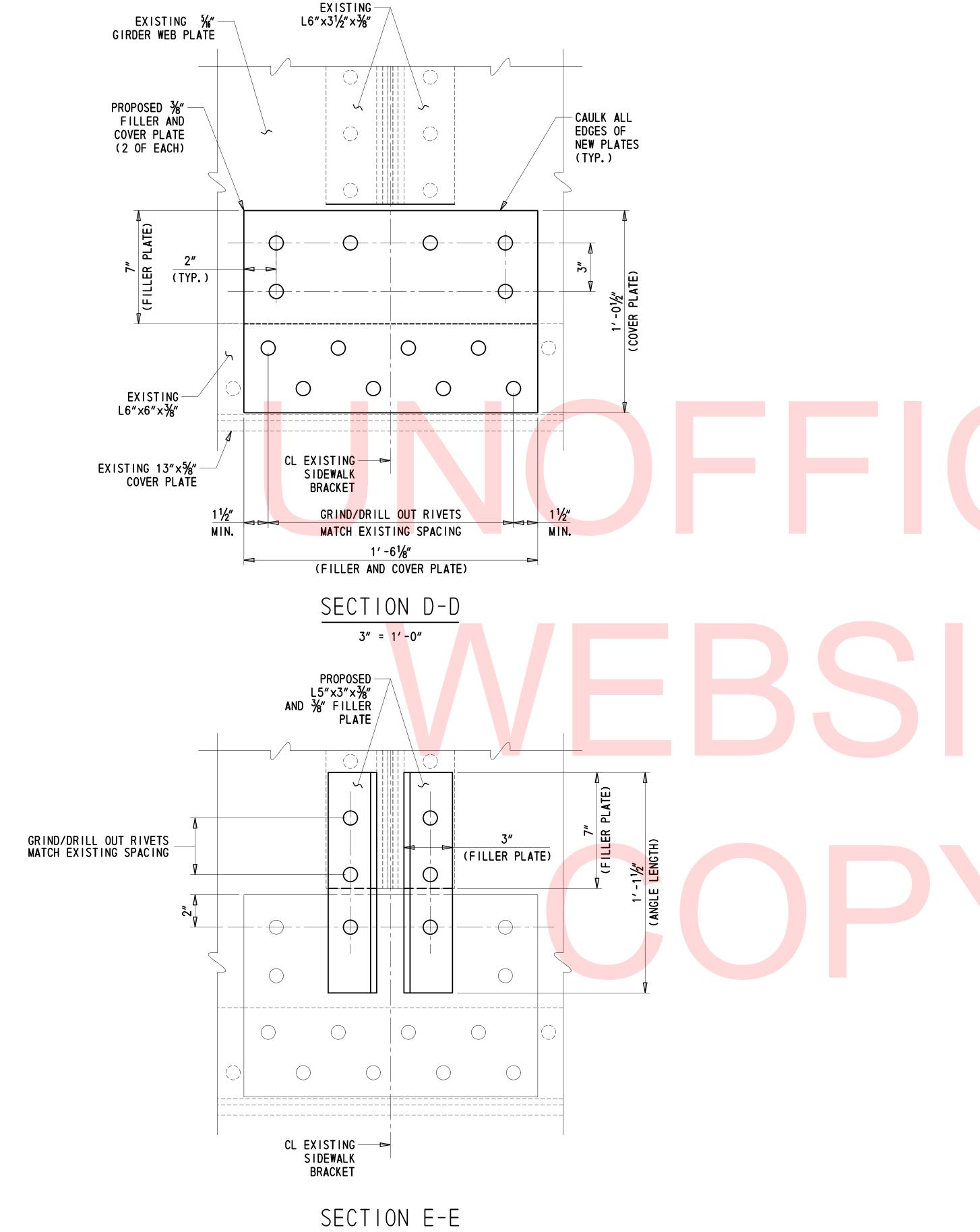
**SCALE AS NOTED** 

CONTRACT, BRIDGE 3–151, FY19

COUNTY SUSSEX CHECKED BY: **DEF** 

**DETAILS - 1** 

OTAL SHTS



#### NOTES FOR WEB PLATE REPAIR:

- WEB PLATE REPAIR APPLIES TO WEST GIRDER AT THE SIDEWALK SUPPORT BETWEEN FLOORBEAM 1 AND 2.
- ALL WORK SHALL CONFORM TO SECTION 615 OF THE DELDOT STANDARD SPECIFICATIONS.
- ALL NEW STEEL PLATES SHALL CONFORM TO ASTM A709, GRADE 36.
- ALL BOLTS SHALL BE 1/8" HIGH STRENGTH BOLTS IN ACCORDANCE WITH ASTM A325 TYPE 1. A HARDENED WASHER SHALL BE INSTALLED UNDERNEATH BOTH THE HEAD AND THE NUT AND SHALL BE IN CONFORMANCE WITH ASTM F436. NUTS SHALL BE IN CONFORMANCE WITH ASTM A563. BOLTS LENGTHS TO BE DETERMINED BY THE CONTRACTOR.
- 5. ALL BOLT HOLES SHALL BE 156". FIELD DRILLED HOLES SHALL BE GROUND OR REAMED

SMOOTH TO REMOVE ROUGH EDGES OR SURFACES.

- ALL EXISTING MATERIAL IN CONTACT WITH NEW MATERIAL SHALL BE CLEANED IN ACCORDANCE WITH DELDOT STANDARD SPECIFICATIONS SECTION 616. THIS INCLUDES BOTH SIDES OF THE WEB PLATE. PRIME ALL MATING SURFACES & EXPOSED STEEL PRIOR TO THE INSTALLATION OF NEW COMPONENTS. AFTER INSTALLATION, AN APPROVED MOISTURE-CURED URETHANE COATING CONFORMING TO SECTION 616 SHALL BE APPLIED TO THE REPAIRED AREA WITH A TOP COATING MATCHING THE EXISTING GIRDER COLOR.
- IF EXISTING STEEL IS KNIFE-EDGED, GRIND EDGE TO 1/6" MINIMUM THICKNESS.
- IF EXISTING CRACK IS NOTED, DRILL 1" DIAMETER HOLE AT CRACK TIP TO PREVENT
- THE AREAS OF SECTION LOSS AND PITTING SHALL BE FILLED WITH AN APPROVED METAL REINFORCED EPOXY FILLER JUST PRIOR TO INSTALLING NEW STEEL PLATES AND NEW FABRICATED SECTIONS.
- 10. PRIOR TO PREPARATION OF SHOP DRAWINGS, FABRICATION, AND CONSTRUCTION, THE CONTRACTOR SHALL CHECK THE ACCURACY OF THE DIMENSIONS OF THE EXISTING FASCIA GIRDER. IF THESE DIMENSIONS DO NOT AGREE WITH THOSE SHOWN ON THE DRAWINGS OR OTHER EXISTING DRAWINGS, THE CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TO THE DIMENSIONS SHOWN ON THE PLANS TO ENSURE THAT CONSTRUCTION OF THE NEW COMPONENTS WILL PROPERLY FIT ONTO THE BASCULE GIRDER, AT NO ADDITIONAL COST TO THE DEPARTMENT.
- ALL EDGES OF NEW PLATES SHALL BE CAULKED AS INDICATED IN DETAILS.
- 12. EXISTING GIRDERS MAY CONTAIN LEAD-BASED PAINT. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTAINING AND DISPOSING OF THE MATERIALS PROPERLY IN ACCORDANCE WITH THE DELDOT STANDARD SPECIFICATIONS.

#### RECOMMENDED SEQUENCE OF CONSTRUCTION FOR WEB PLATE REPAIR:

- PRIOR TO STARTING WORK, VERIFY DIMENSIONS OF EXISTING STEEL FOR PROPER FIT OF
- REMOVE PORTION OF EXISTING SIDEWALK BRACKET AND LATERAL BRACING AS SHOWN IN
- BLAST CLEAN REPAIR AREAS TO REMOVE LOOSE DIRT, RUST, AND DEBRIS. PRIME ALL MATING SURFACES AND EXPOSED STEEL.
- FILL ALL AREAS OF SECTION LOSS AND PITTING IN THE REPAIR AREA ACCORDING TO MANUFACTURERS INSTRUCTIONS WITH ONE OF THE FOLLOWING EPOXY GEL REPAIR PRODUCTS OR APPROVED EQUIVALENT: DEVCON PLASTIC STEEL PUTTY (A). BELZONA 1111 OR BELZONA
- INSTALL NEW STEEL COMPONENTS ON EXISTING GIRDER AND APPLY URETHANE COATING AND TOP COAT. CAULK EDGES OF NEW PLATES.

**DELAWARE** DEPARTMENT OF TRANSPORTATION ADDENDUMS / REVISIONS

3'' = 1' - 0''

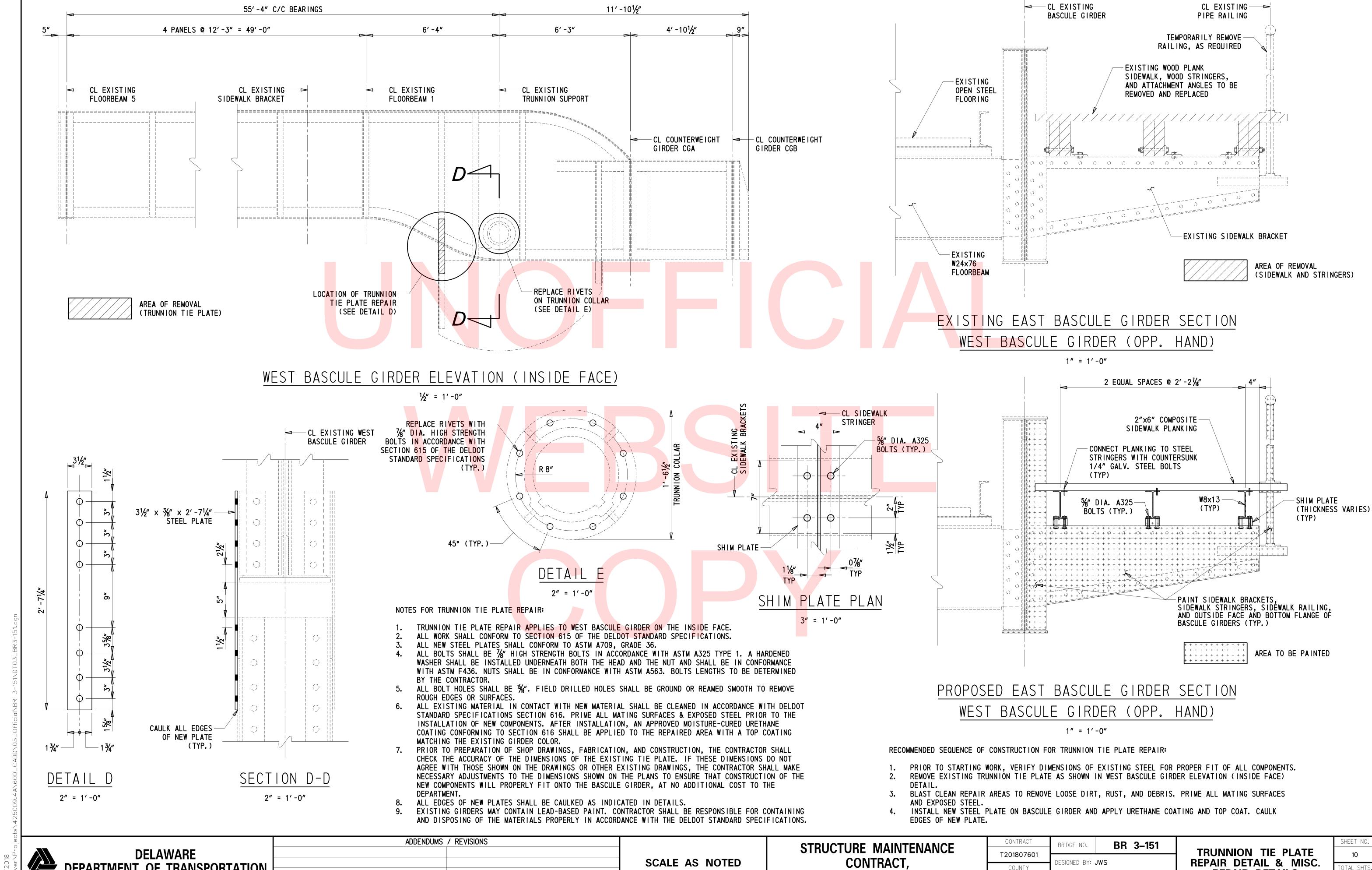
SCALE AS NOTED

STRUCTURE MAINTENANCE CONTRACT, BRIDGE 3-151, FY19

CONTRACT BR 3-151 BRIDGE NO. T201807601 DESIGNED BY: JWS COUNTY CHECKED BY: **DEF** SUSSEX

WEB PLATE REPAIR DETAILS - 2

OTAL SHTS



TAL SHTS

**REPAIR DETAILS** 

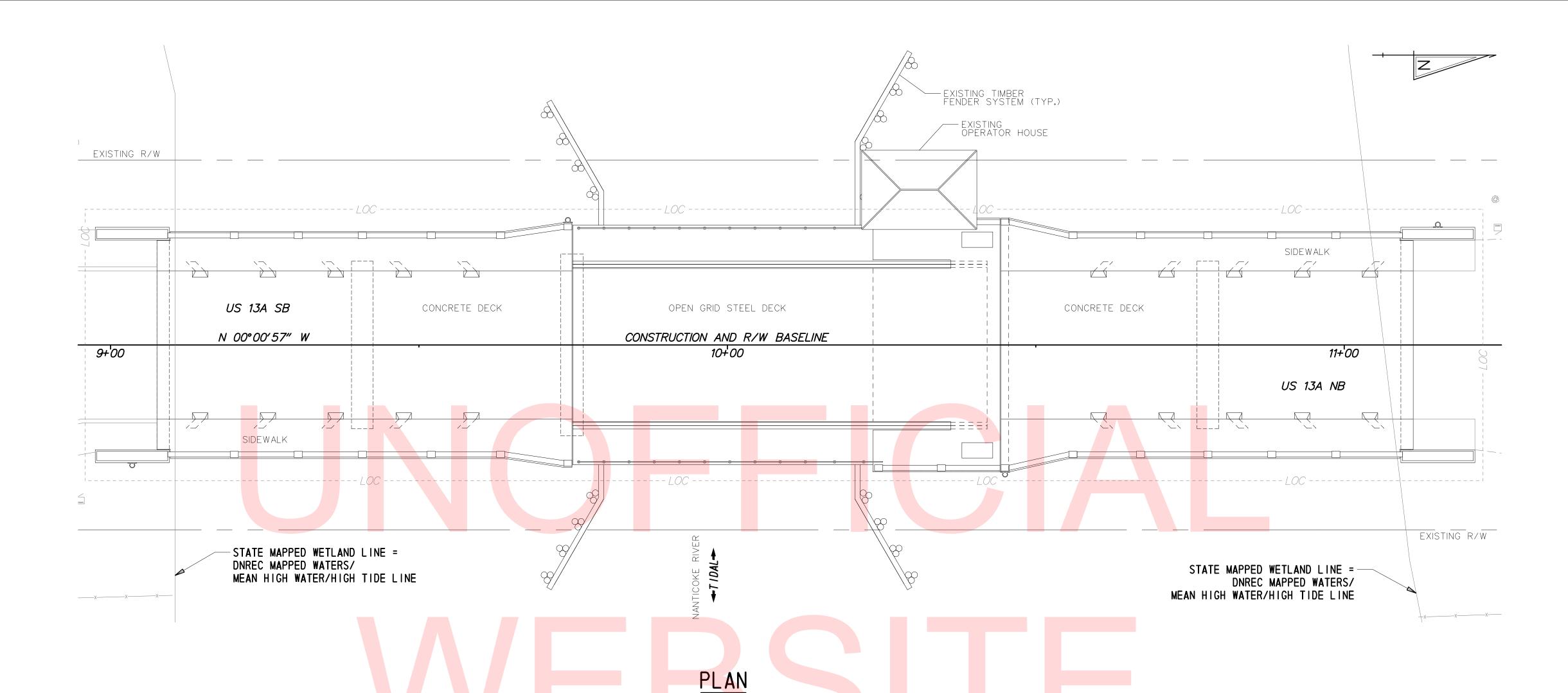
COUNTY

SUSSEX

CHECKED BY: **DEF** 

BRIDGE 3-151, FY19

**DEPARTMENT OF TRANSPORTATION** 



# ENVIRONMENTAL COMPLIANCE NOTES

#### 1. GENERAL NOTES:

- A. THE PURPOSE OF THESE SHEETS IS TO IDENTIFY THOSE ITEMS ASSOCIATED WITH ENVIRONMENTAL COMPLIANCE. IMPACT CALCULATIONS ARE FOR THE AGENCY PERMIT REPORTING PURPOSES ONLY AND ARE NOT TO BE USED FOR BIDDING PURPOSES.
- B. IF A DEPARTURE FROM THE APPROVED PLANS (WHICH WOULD AFFECT ANY NATURAL AND/OR CULTURAL RESOURCES) IS NECESSARY, THE ENVIRONMENTAL STUDIES SECTION SHALL BE CONTACTED AT (302)760-2264 TO ALLOW FOR COORDINATION WITH THE APPROPRIATE RESOURCE AGENCIES AND APPROVAL.
- C. USE OF THIS SHEET DOES NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL CONDITIONS SET FORTH IN THE ENVIRONMENTAL STATEMENT AND PERMITS.
- 2. NATURAL RESOURCE ISSUES:
- A. PERMIT REQUIREMENTS/APPROVALS\*:

  U.S. ARMY CORPS OF ENGINEERS (COE): NONE

  DNREC WETLANDS & SUBAQUEOUS LANDS (WLSL): NONE

  DNREC WATER QUALITY (WQC) & COASTAL ZONE CONSISTENCY (CZM): NONE

  U.S. COAST GUARD: NOTIFICATION 30 DAY
- \* THE PERMITS/APPROVALS LISTED ARE THOSE REQUIRED FOR THIS PROJECT. THE ENVIRONMENTAL STUDIES SECTION IS RESPONSIBLE FOR COORDINATING AND/OR OBTAINING THIS APPROVAL.
- B. CONSTRUCTION RESTRICTIONS:
  FISHERIES MARCH 1 TO JUNE 30
  ENDANGERED SPECIES NONE
  MIGRATORY BIRDS NONE

#### 3. CULTURAL RESOURCE ISSUES:

A. BRIDGE 3-151 IS ELIGIBLE FOR LISTING ON THE NATIONAL REGISTER OF HISTORIC PLACES. DELDOT ENVIRONMENTAL STUDIES MUST BE NOTIFIED AT 302-760-4887 IF THERE ARE ANY PROPOSED CHANGES TO THE PROJECT METHODS, FOOTPRINT, MATERIALS, OR DESIGNS TO ALLOW THE DEPARTMENT TO COORDINATE WITH THE APPROPRIATE RESOURCES AGENCY FOR APPROVAL. IF UNFORESEEN DAMAGE OCCURS TO THE BRIDGE (AS A DIRECT RESULT OF THE UNDERTAKING) DELDOT QUALIFIED STAFF MUST BE CONTACTED IMMEDIATELY TO ENSURE THAT THE DE SHPO, FHWA, AND/OR OTHERS ARE CONSULTED ON WAYS TO REPAIR THE DAMAGE CONSISTENT WITH THE SECRETARY OF THE INTERIOR'S STANDARDS.

1" = 10'

- 4. PROTECTION OF RESOURCES:
- A. NO RESOURCES WILL BE IMPACTED.

ORIGINAL SHEET PREPARED BY T.Y. LIN INTERNATIONAL ON 08-15-2018. SHEET LAST UPDATED ON 08-25-2018.

NO WETLANDS EXIST WITHIN THE PROJECT LIMITS.

DELAWARE
DEPARTMENT OF TRANSPORTATION

ADDENDUMS / REVISIONS

O 10 20 3

FEET

STRUCTURE MAINTENANCE CONTRACT, BRIDGE 3–151, FY19

CONTRACT
BRIDGE NO. BR 3-151

T201807601
COUNTY

DESIGNED BY: RMB

CHECKED BY: DEF

ENVIRONMENTAL COMPLIANCE PLAN

11 TOTAL SHTS.

#### SEQUENCE OF CONSTRUCTION: GENERAL EROSION AND SEDIMENT CONTROL NOTES: GENERAL MOT NOTES AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR PHASE 1: THE SEDIMENT AND STORMWATER MANAGEMENT PLANS HAVE BEEN APPROVED BY DELDOT'S REQUIREMENT FOR THIS PROJECT. STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE SEDIMENT AND STORMWATER INSTALL MOT DEVICES AND CLOSE US13A (S13) IN ACCORDANCE WITH THE APPROVED MANAGEMENT PLANS ARE VALID FOR A FIVE YEAR PERIOD, BEGINNING ON THE DATE THE THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED STORMWATER ENGINEER SIGNED THE CONSTRUCTION TITLE SHEET. IF THE FINAL ACCEPTANCE OF THE (X)TO THIS PROJECT. PROJECT IS ANTICIPATED TO EXTEND BEYOND THE FIVE YEARS, THE CONTRACTOR WILL INFORM THE CLOSE THE NORTHBOUND SIDEWALK IN ACCORDANCE WITH THE APPROVED PEDESTRIAN ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE APPROVED SEDIMENT AND STORMWATER DETOUR PLAN. THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE MANAGEMENT PLANS. THE STORMWATER ENGINEER WILL REVIEW THE CURRENT SEDIMENT AND CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA STORMWATER MANAGEMENT PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS. REMOVE WOOD PLANK SIDEWALK, WOOD SIDEWALK STRINGERS AND ATTACHMENT ANGLES. CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 801000. BLAST CLEAN AND PAINT EAST BASCULE GIRDER, RACK SUPPORT, TRUNNION SUPPORT **EROSION POTENTIAL** CONTRACTOR ESC SUPERVISOR REQUIREMENT TOWER, SIDEWALK BRACKETS AND SIDEWALK PEDESTRIAN RAILING. CAULK ALL BUILT-UP FOR THIS PROJECT PORTIONS OF THE GIRDER AND CONNECTIONS TO THE GIRDER PRIOR TO PAINTING. NONE (X) INSIGNIFICANT INSTALL NEW STEEL SIDEWALK STRINGERS AND COMPOSITE SIDEWALK PLANKING. PHASE 2: CONTRACTOR TRAINING PROGRAM, AS DEFINED IN SECTION 6.2 OF THE ) MINOR DELAWARE SEDIMENT AND STORMWATER REGULATIONS. RE-OPEN NORTHBOUND SIDEWALK AND CLOSE SOUTHBOUND SIDEWALK IN ACCORDANCE WITH THE APPROVED PEDESTRIAN DETOUR PLAN. CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 6.3 OF ) MAJOR THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS. REMOVE WOOD PLANK SIDEWALK, WOOD SIDEWALK STRINGERS AND ATTACHMENT ANGLES. PERFORM WEB PLATE REPAIR AND TRUNNION TIE PLATE REPAIR. 3. THE DISTURBED AREA FOR THIS PROJECT IS 0.0 ACRES. BLAST CLEAN AND PAINT WEST BASCULE GIRDER, RACK SUPPORT, TRUNNION SUPPORT TOWER, SIDEWALK BRACKETS AND SIDEWALK PEDESTRIAN RAILING. CAULK ALL BUILT-UP 4. THE ADDITIONAL IMPERVIOUS AREA FOR THIS PROJECT IS 0.0 SQUARE FEET. PORTIONS OF THE GIRDER AND CONNECTIONS TO THE GIRDER PRIOR TO PAINTING. INSTALL NEW STEEL SIDEWALK STRINGERS AND COMPOSITE SIDEWALK PLANKING. TEMPORARY PAVEMENT MARKINGS LEGEND PERFORM FLOORBEAM RETROFIT. CAULK JOINT BETWEEN COVER PLATE AND BOTTOM LANDS N/F FLANGE. SPOT PAINT RETROFIT, AS NECESSARY. SYMBOL ITEM QUANT ITY THE GALLERIA AT RIVERWALK, LLC. T.P. 431-5.00-300.00 D.R. 4477-272 2' x6' SOLID WHITE TEMPORARY TAPE PERFORM REMAINING CRACK AND WELD REPAIRS, AND REPLACE RIVETS WITH SECTION 180 SF PAVEMENT SYMBOL (ITEM 817010) LOSS AS DIRECTED IN THE PLANS. SPOT PAINT REPAIRED AREAS, AS NECESSARY. UPON COMPLETION OF ALL CONSTRUCTION ACTIVITIES ON BRIDGE 3-151, REMOVE PEDESTRIAN AND VEHICULAR DETOURS AND RETURN TRAFFIC TO NORMAL ROUTE. LANDS N/F TOWN OF SEAFORD T.P. 431-5.00-291.00 BOLLARD (TYP.) - LIGHT POLE NANTICOKE RIVER **(**) PENINSULA OIL CO. INC. T.P. 132-1.11-32.00 XXXXX LANDS N/F - WOOD POST CITY OF SEAFORD $\bigcirc$ T.P. 431-5.00-301.00 TRAFFIC SIGNAL POLE-D.R. 2080-167 TRAFFIC SIGNAL POLE — $RCP = = = -\frac{1}{XXXXX}$ XXXXX <sup>-</sup>46637-XXXXX Ø 🕸 03131 🛇 -----LOC -----FRONT ST. & NO0°00′57″W SURVEY & (HISTORIC) R R R R 12+00 /∕ ℚ D.P.L. 13+00 11+00 =*10+00=* 14+00 8+00 D.P.L. 📎 46645 — TRAFFIC SIGNAL POLE TRAFFIC SIGNAL POLE -03132 LIGHT POLE -- LIGHT POLE - STA. 12+09.81 SURVEY 🛭 = STA. 20+00.00 MARKET ST. Q LANDS N/F LANDS N/F LANDS N/F CITY OF SEAFORD NANTICOKE MEMORIAL HOSPITAL, INC. PENINSULA OIL CO. INC. T.P. 431-5.00-314.02 T.P. 431-5.00-303.00 T.P. 132-1.11-33.00 D.R. 3458-99 D.R. 3458-99 LANDS N/F THE RESIDENCES AT RIVER PLACE, LLC. T.P. 431-5.00-314.00 D.R. 4589-86 ADDENDUMS / REVISIONS BR 3-151 STRUCTURE MAINTENANCE SCALE CONSTRUCTION PHASING, **DELAWARE** T201807601 CONTRACT, M.O.T., AND EROSION DESIGNED BY: JWS DEPARTMENT OF TRANSPORTATION TAL SHTS COUNTY **CONTROL PLAN** FEET BRIDGE 3-151, FY19 CHECKED BY: DEF SUSSEX

