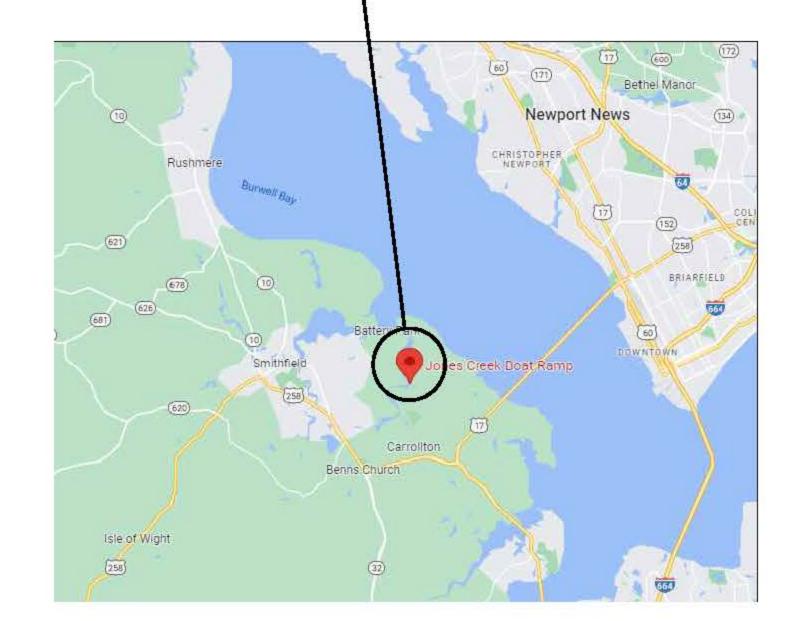
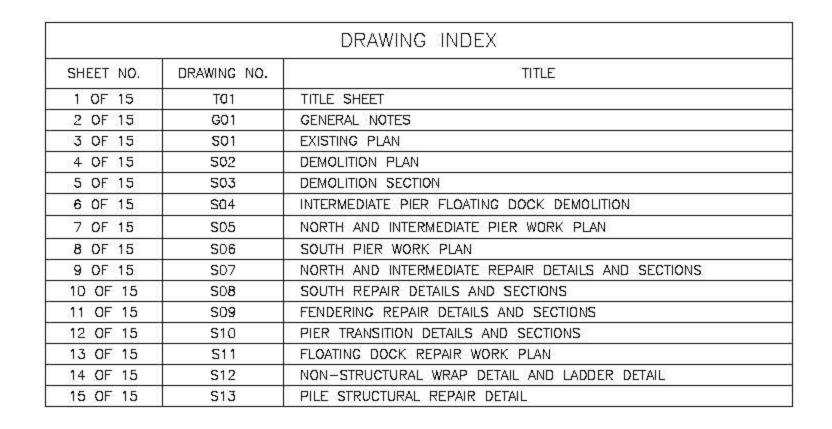
ISLE OF WIGHT COUNTY JONES CREEK BOAT RAMP PIER REPAIRS CARROLLTON, VIRGINIA

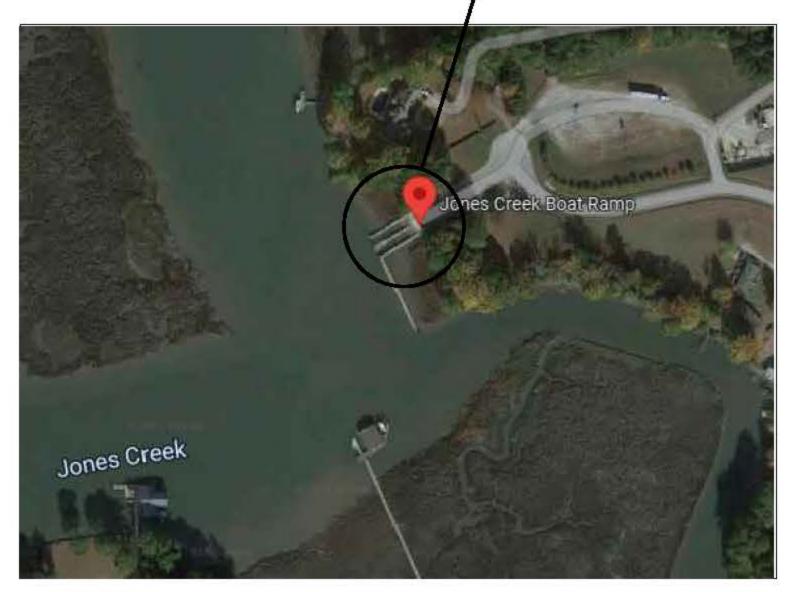
PROJECT LOCATION 7

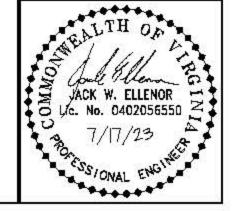


VICINITY MAP

JULY 2023 PREPARED BY: COLLINS ENGINEERS







ISSUED FOR CONSTRUCTION

LOCATION MAP

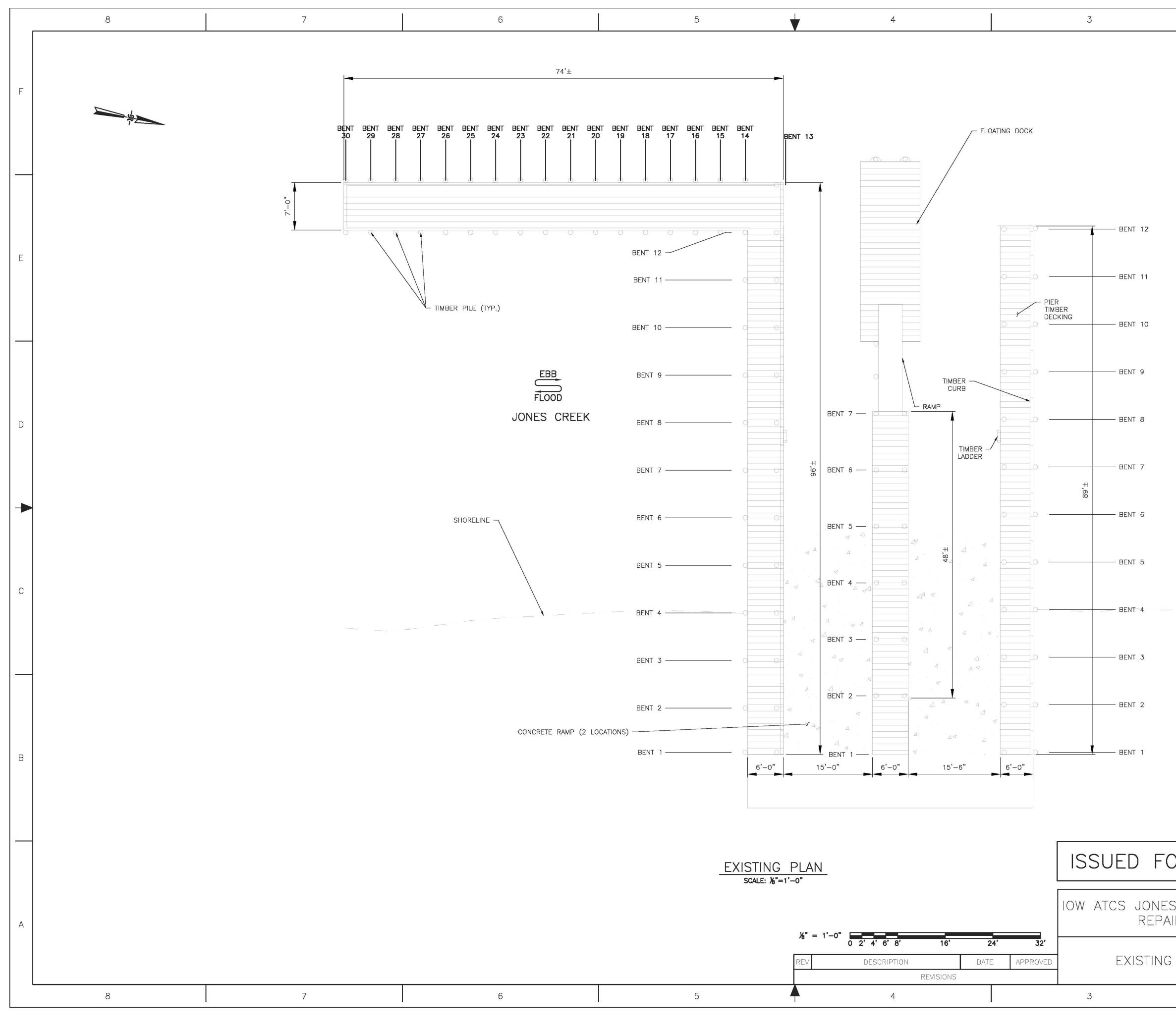
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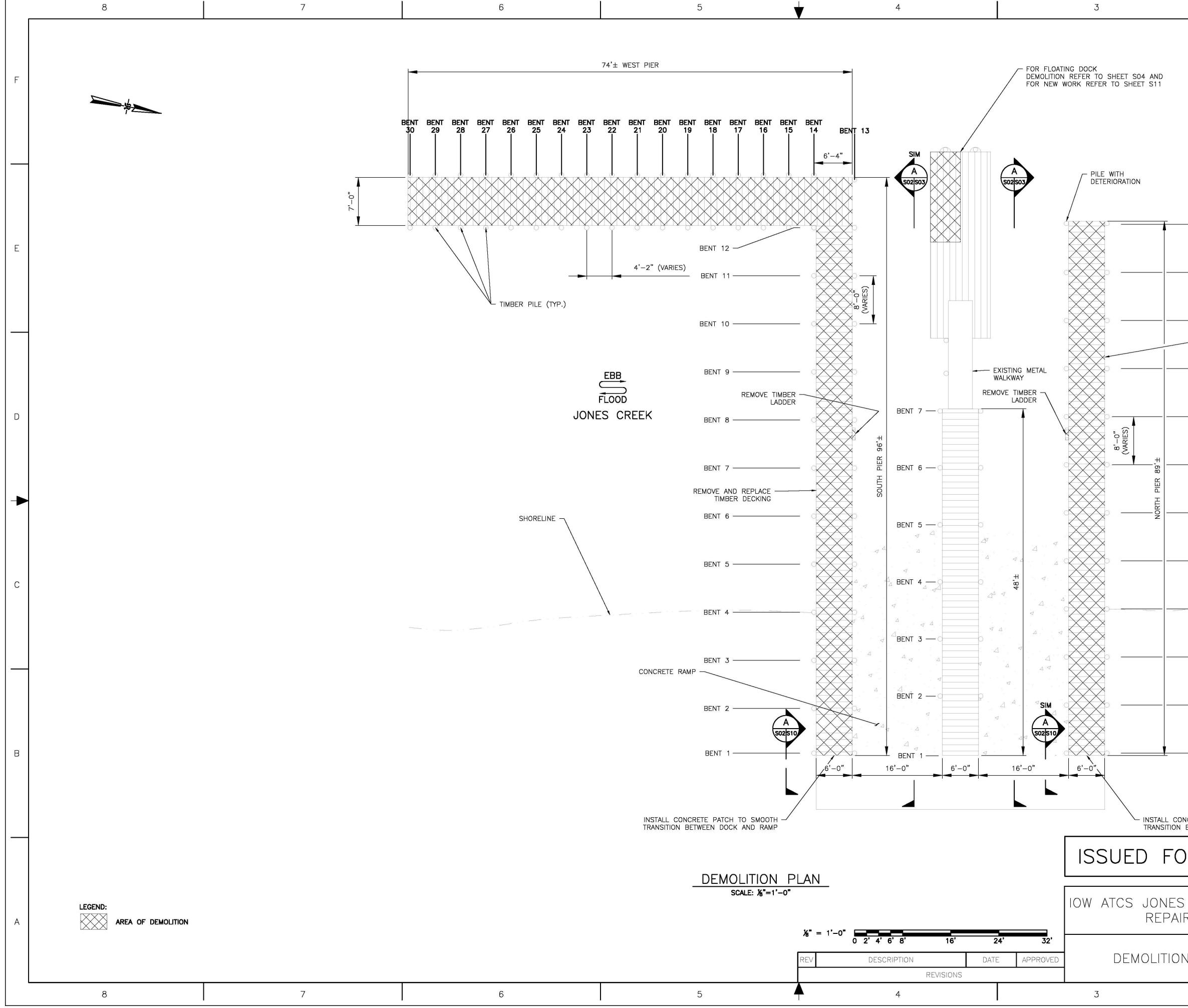
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_	DESIGN LOADS: 1. Vertical dead load: dead load cons	SISTS OF ACTUAL WEIGHT OF THE STRUCTURE AND E	QUIPMENT.									
	2. CONTRACTOR SHALL COMPLY WITH CITY, CONCERNING WORKING IN THE VICINITY THE CONTRACTOR. OWNER SHALL BE RE	NECESSARY PERMITTING PRIOR TO THE BEGINNING OF , STATE, AND FEDERAL AUTHORITIES EROSION CONTRO OF WETLANDS. ALL COSTS FOR ALL EROSION CONTRO ESPONSIBLE FOR ALL FEES AND COSTS ASSOCIATED O DN (JPA) ACQUISITION AS WELL AS LOCAL WETLAND E	DL MEASURES AND REGULATIONS OL MEASURES MUST BE INCLUDED BY WITH THE VIRGINIA MARINE RESOURCE									
E	 ANY FUEL, OIL, PAINT OR HAZARDOUS I COST OF ALL REQUIRED, PERMITS, CITY, CONTRACTOR TO PROVIDE AND PAY FOR CONTRACTOR SHALL COORDINATE ALL AC BEFORE PROCEEDING WITH ANY WORK, EXISTING STRUCTURES. THE CONTRACTOR PROPER CONSTRUCTION AND ALIGNMENT PROPER ERECTION OF STRUCTURAL MEM 	MATERIALS SHOULD BE STORED IN A SECONDARY CO 7, STATE OR FEDERAL GOVERNMENT IS THE RESPONSI R ALL UTILITIES REQUIRED FOR CONSTRUCTION OPERA CTIVITIES AND SCHEDULES WITH THE OWNER PRIOR TO THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH S R SHALL BE RESPONSIBLE FOR DIMENSIONS, ELEVATION OF THE STRUCTURES. THE CONTRACTOR SHALL MAK MBERS.	NTAINER. BILITY OF THE OWNER. ATIONS. TO CONSTRUCTION. STRUCTURAL CONDITIONS OF THE ONS, ETC. NECESSARY FOR THE									E
	 THE CONTRACTOR SHALL SUBMIT MANUF ALL WORK SHALL CONFORM TO THE RE ALL FEDERAL, STATE, AND LOCAL SAFET ALL APPLICABLE FEDERAL, STATE, AND STRICTLY FOLLOWED. MATERIALS SHALL CONFORM TO THE FO 	DIMENSIONS AS INDICATED IN DRAWINGS PRIOR TO BE FACTURER'S DATA OF ALL MATERIAL FOR OWNER APPI EQUIREMENTS OF THESE PLANS AND SPECIFICATIONS. TY REGULATIONS ARE TO BE STRICTLY FOLLOWED. LOCAL ENVIRONMENTAL PROTECTION STANDARDS, LAW DULLOWING, UNLESS OTHERWISE NOTED.	ROVAL PRIOR TO CONSTRUCTION.									
D	STANDARD U1-10, COMMODITY SPECIF PRESERVATIVE RETENTION SHALL BE 2	REATED WITH ACZA OR CCA IN ACCORDANCE WITH A FICATION G) AND T1-06 8.7 MARINE SALT WATER A	APPLICATIONS FOR MARINE PILINGS.									D
-	3. OGEE WASHERS SHALL BE USED UNDER4. BOLTS SHALL BE ASTM A307 AND ALL5. PILE PREVENTIVE WRAPS SHALL SHALL I	R ALL BOLT HEADS AND NUTS IN CONTACT WITH WOO HARDWARE SHALL BE HOT-DIPPED GALVANIZED. BE "PILING WRAP" BY DOCK BUILDERS SUPPLY OR A WITH MANUFACTURER'S RECOMMENDATIONS.	DD.									•
С	SPECIFICATIONS IN THIS SECTION. 2. STAIR ANCHORING SHALL BE FOUR 4^{11}_2	STRAIGHT DOCK LADDER" BY WEST MARINE OR APP " LONG LAG BOLTS. . BE CAPABLE OF WITHSTANDING A SINGLE CONCEN										C
	SUBMITTALS: PRIOR TO THE BEGINNING OF WORK, THE C FOLLOWING SUBMITTALS: * WASTE MANAGEMENT PLAN * SURVEY AND PROPOSED ELEVATIONS A * TIMBER BEAMS AND CROSS BRACING * TIMBER OR COMPOSITE DECKING * CONCRETE MIX * WIRE REINFORCING * CONCRETE ANCHORS	CONTRACTOR SHALL SUBMIT TO THE OWNER/ENGINEER	R FOR REVIEW AND APPROVAL THE									
В												B
									SSUED FOR	CONSTRUC	TION	ACK W. ELLENOR ACK W. ELLENOR VC. NO. 0402056550 7/17/23 SS/ONAL ENGINE
A						F1			W ATCS JONES (REPAIRS	DESIGNED BY: D.	DLLINS GINEERSE MARTINEZ	745 BLUECRAB RD, SUITE B NEWPORT NEWS, VA 23606 757—873—0251 www.collinsengr.com
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) P	LAN CHECKED BY: J. AMOR CHECKED BY: J. ELLENOR DATE: JULY 2023	scale: AS NOTED Project NO.: 13932 Drawing NO.: SO1 Sheet NO.: 3 OF 15	
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		TC 745 BLUE	CRAB RD, SUITE B	
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N PLAN	D. MARTINEZ drawn by: J. AMOR checked by: J. ELLENOR	Scale: AS NOTE[
	DULY 2023	drawing no.: SO2	^{sheet no.:} 4 OF 15 1	

7 8 6 - REMOVE EXISTING VERTICAL TIMBER FENDERING (TYP) BENT 12 BENT 11 BENT 10 - EXISTING TIMBER PILES TO REMAIN ELEV. 3.52' — 👷 NORTH PIER PILE WITH -DETERIORATION MHW ELEV. 0.95' NAVD 88 ELEV. 0.00' MLW ELEV. -1.48'





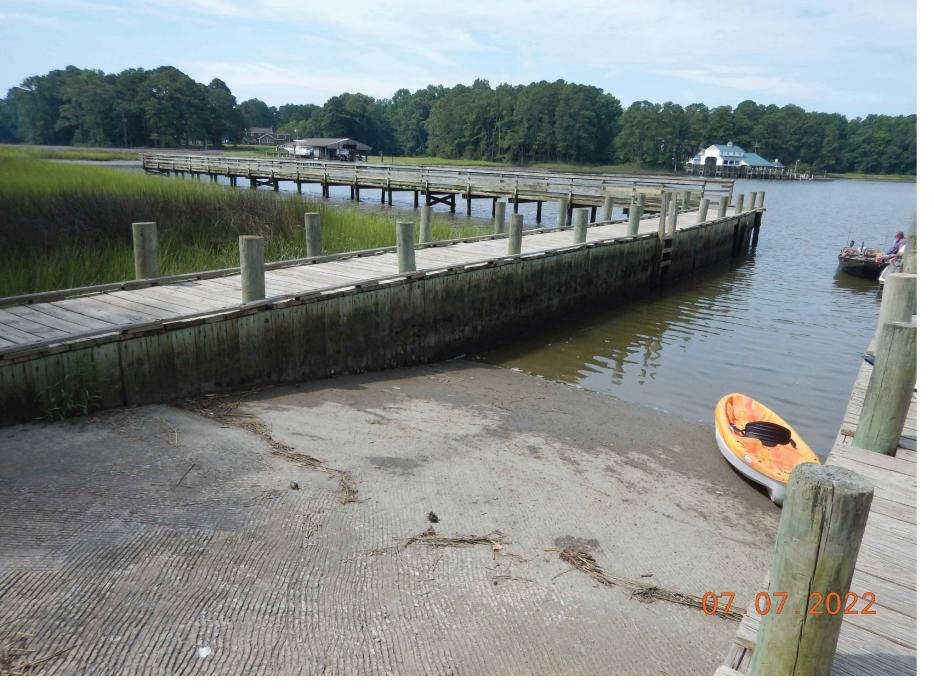
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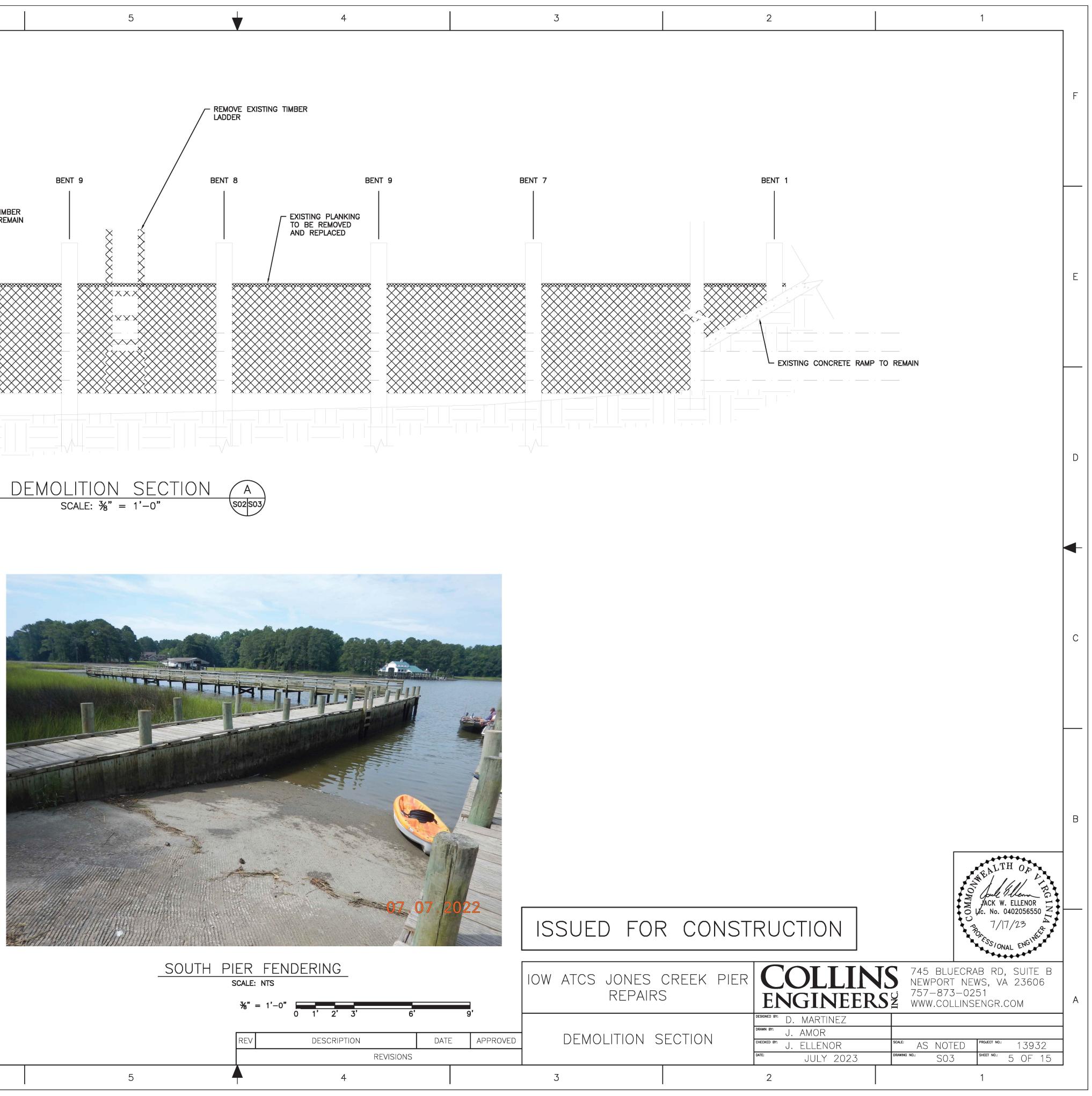
NORTH PIER FENDERING scale: nts

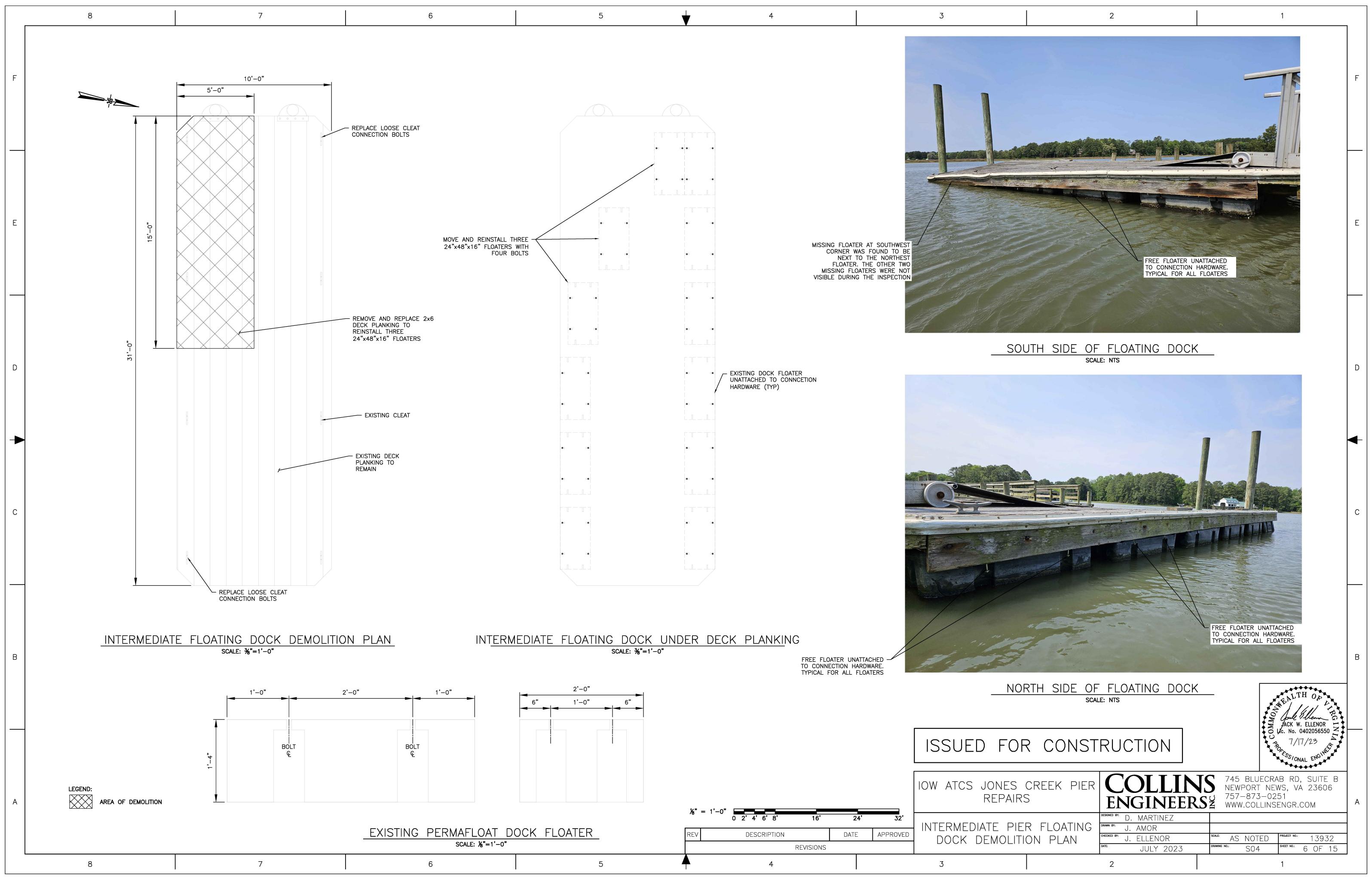
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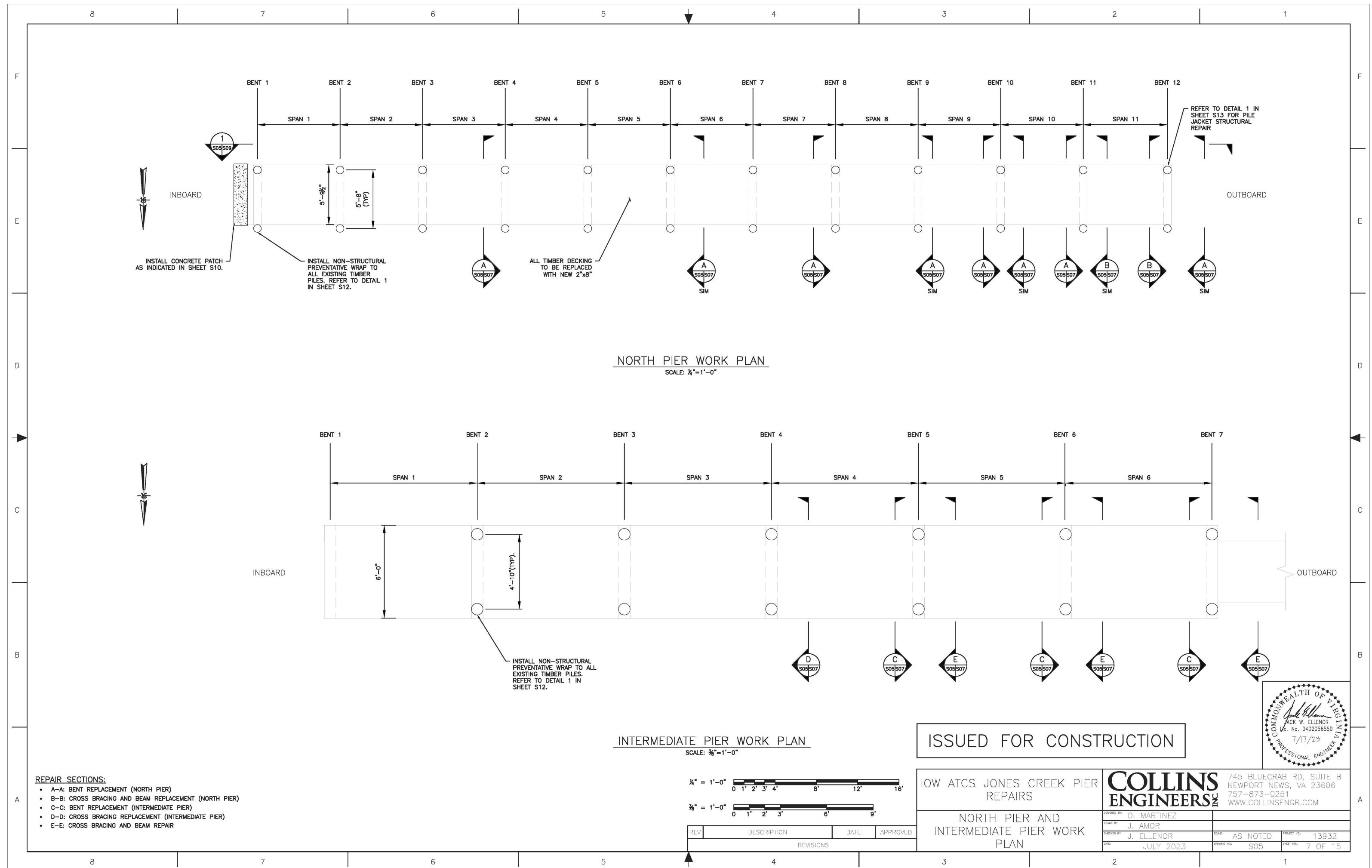
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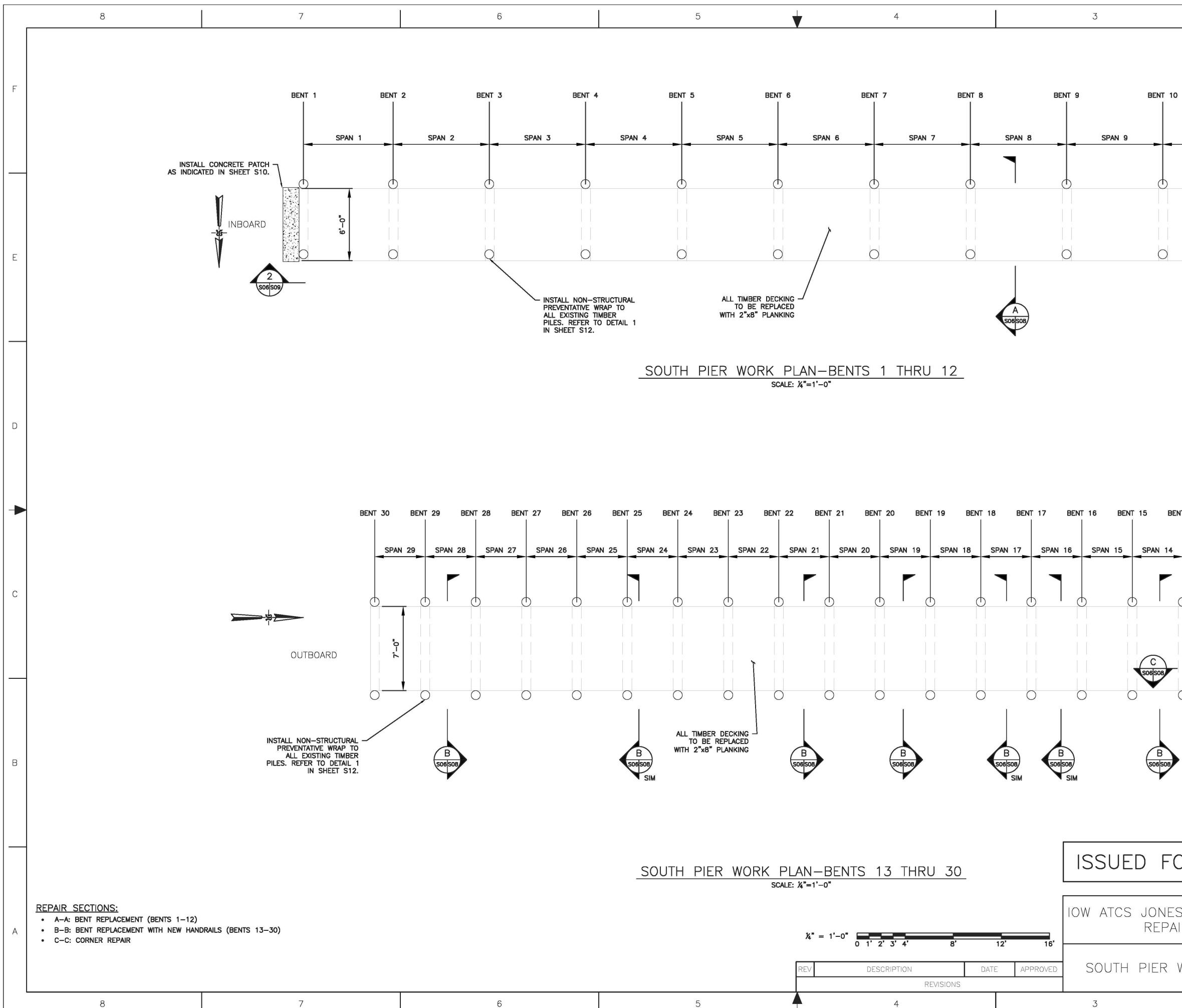




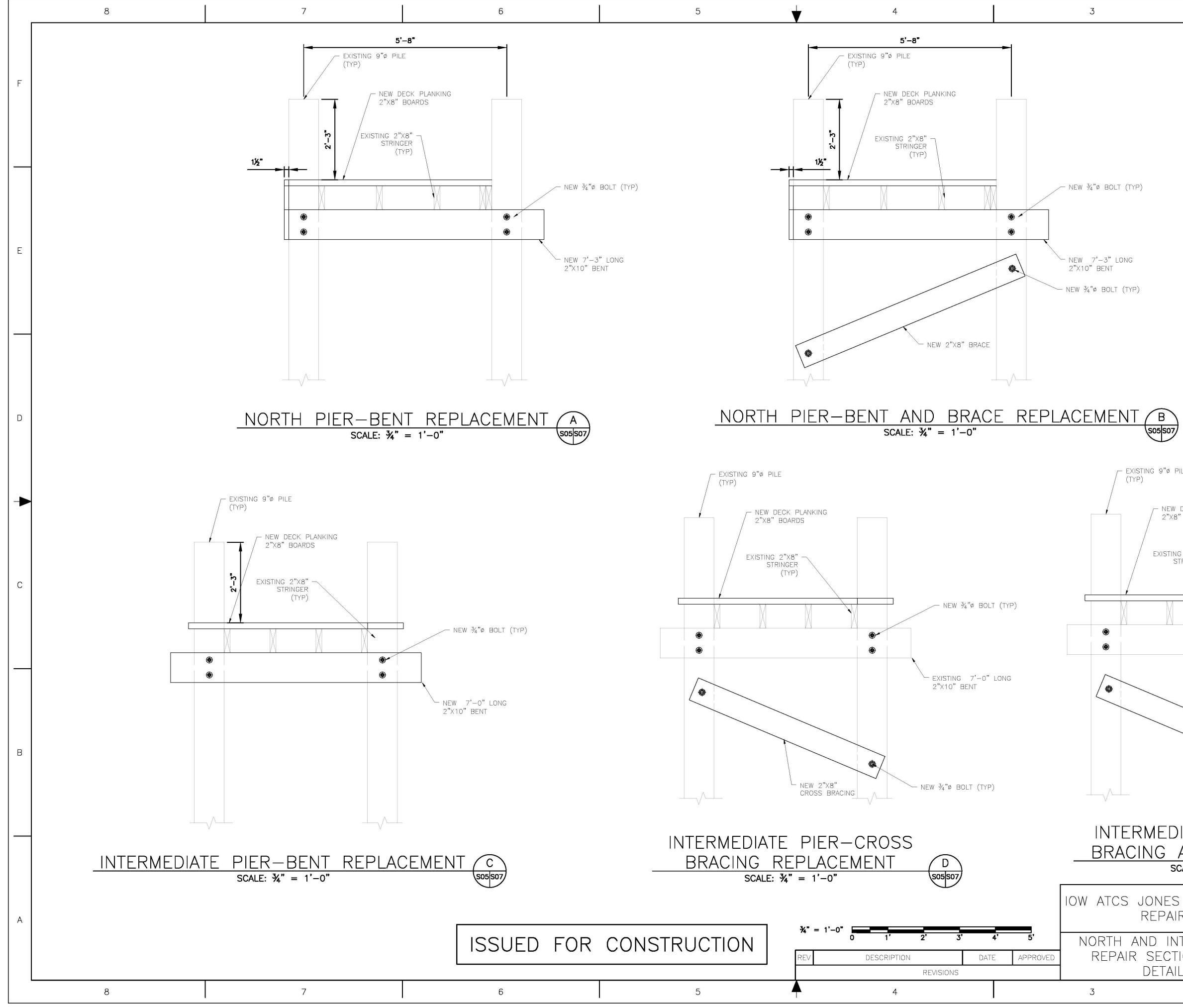




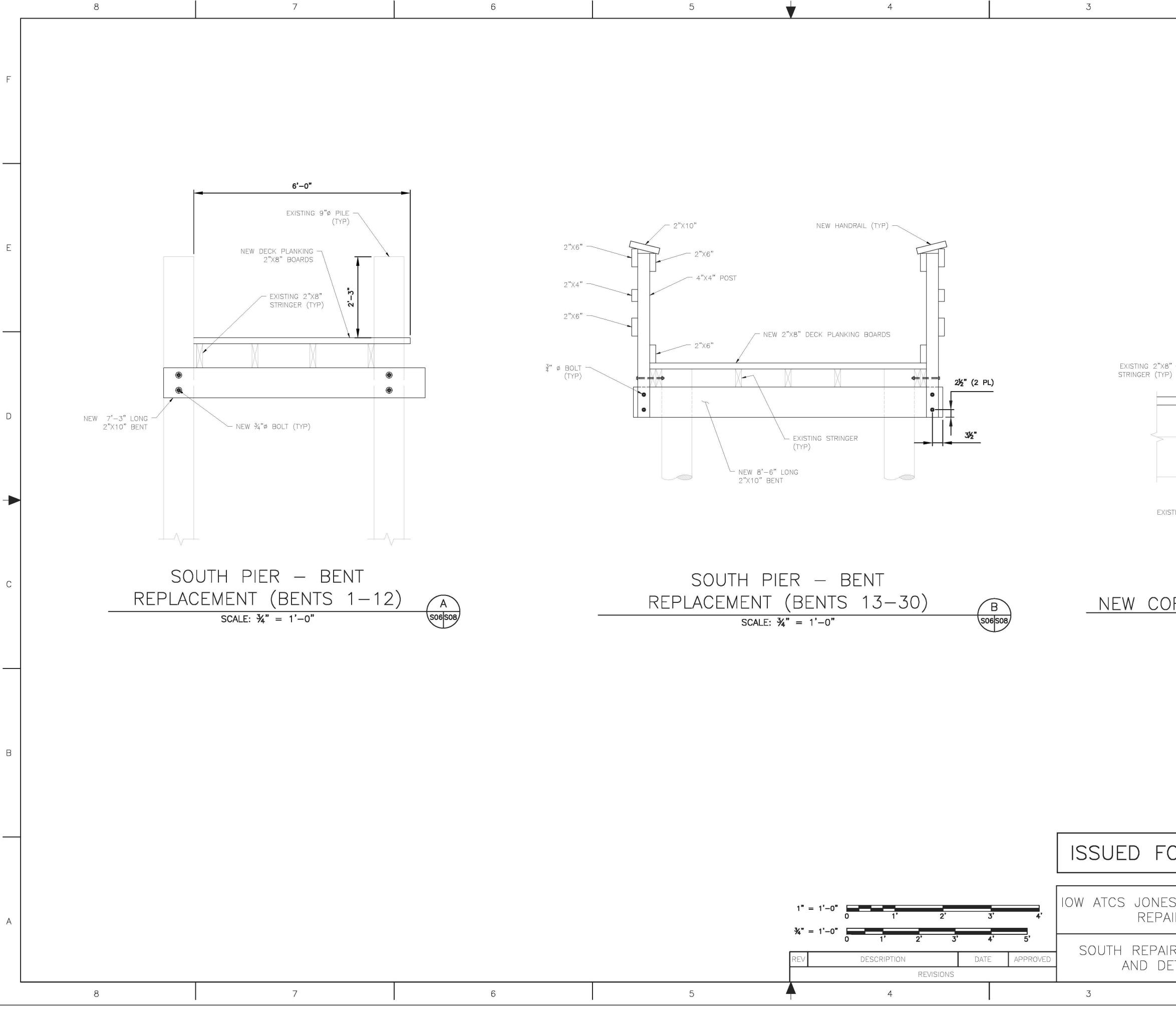




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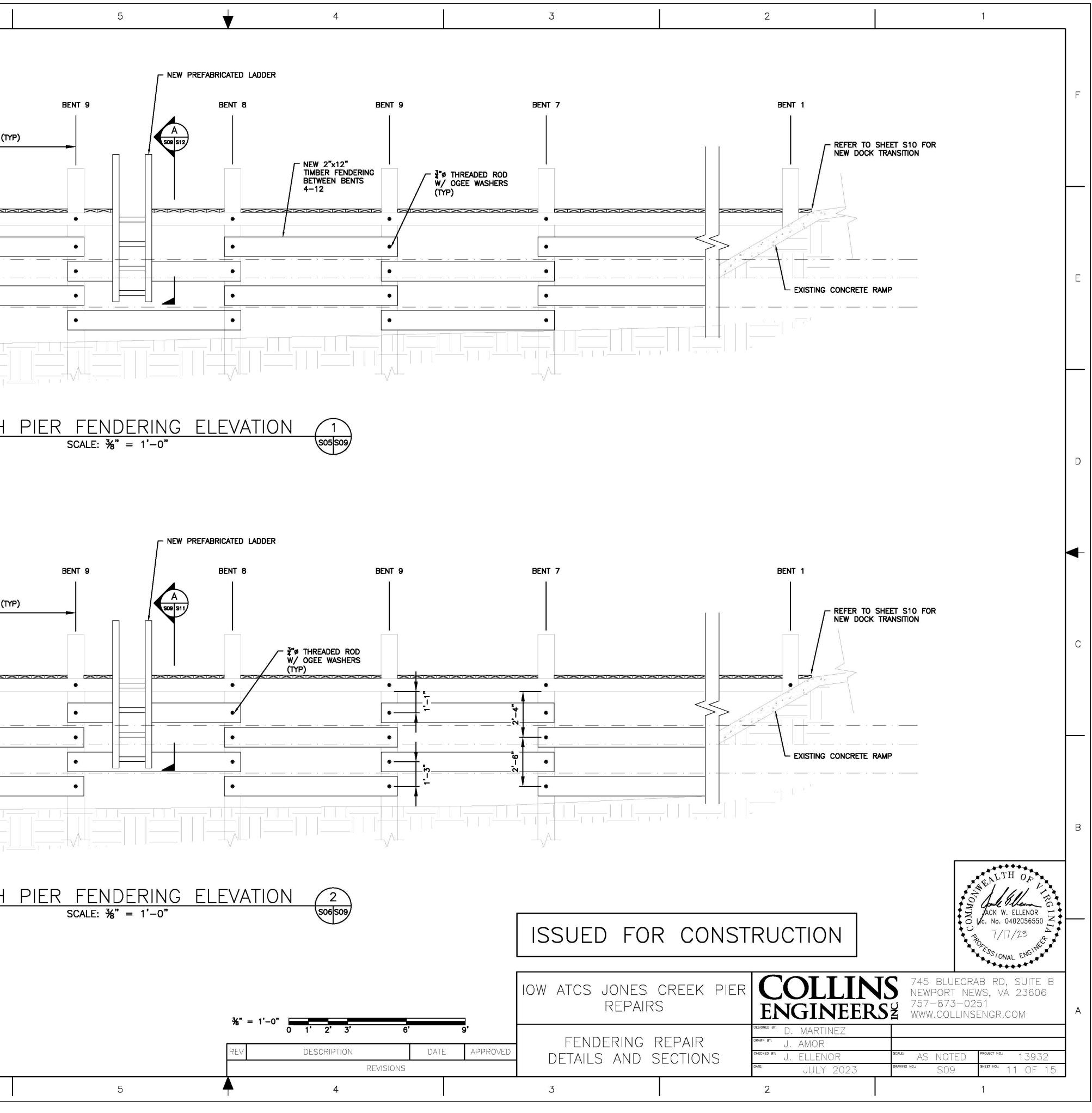


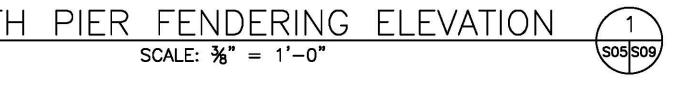
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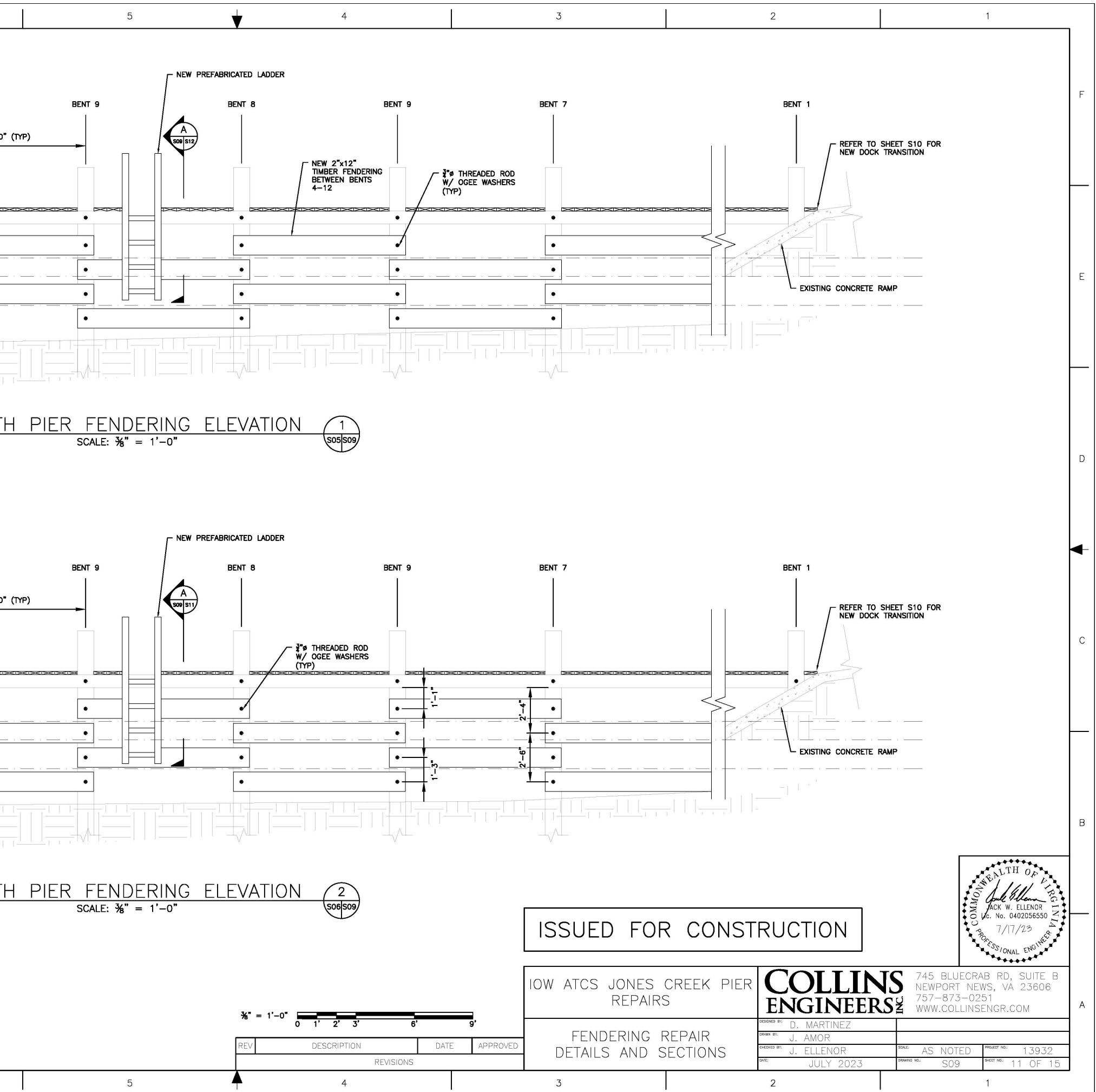


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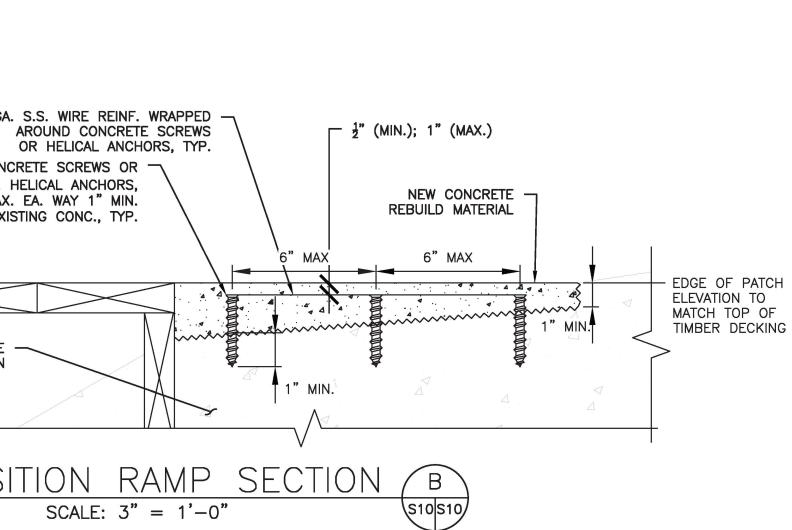
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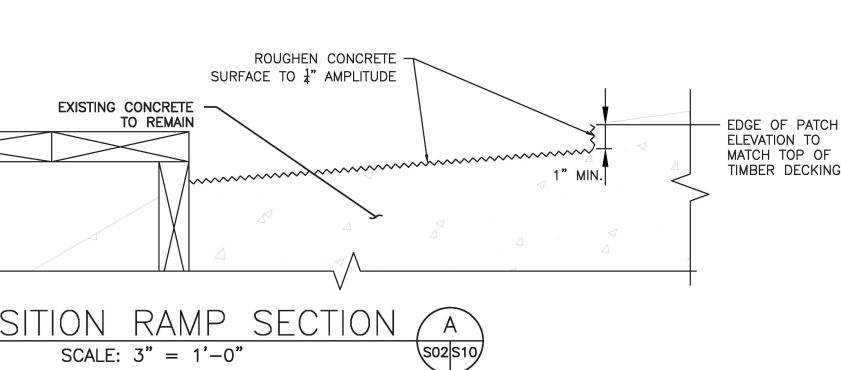


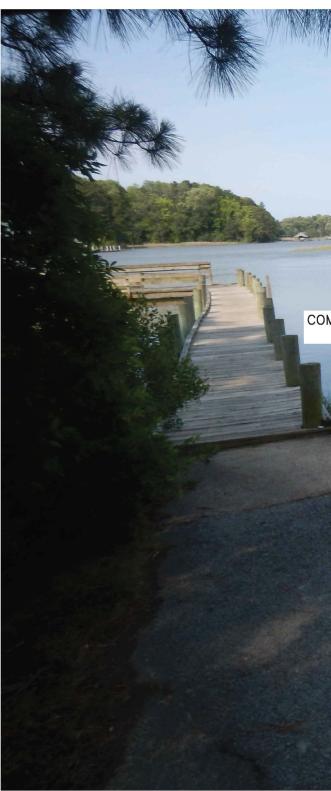


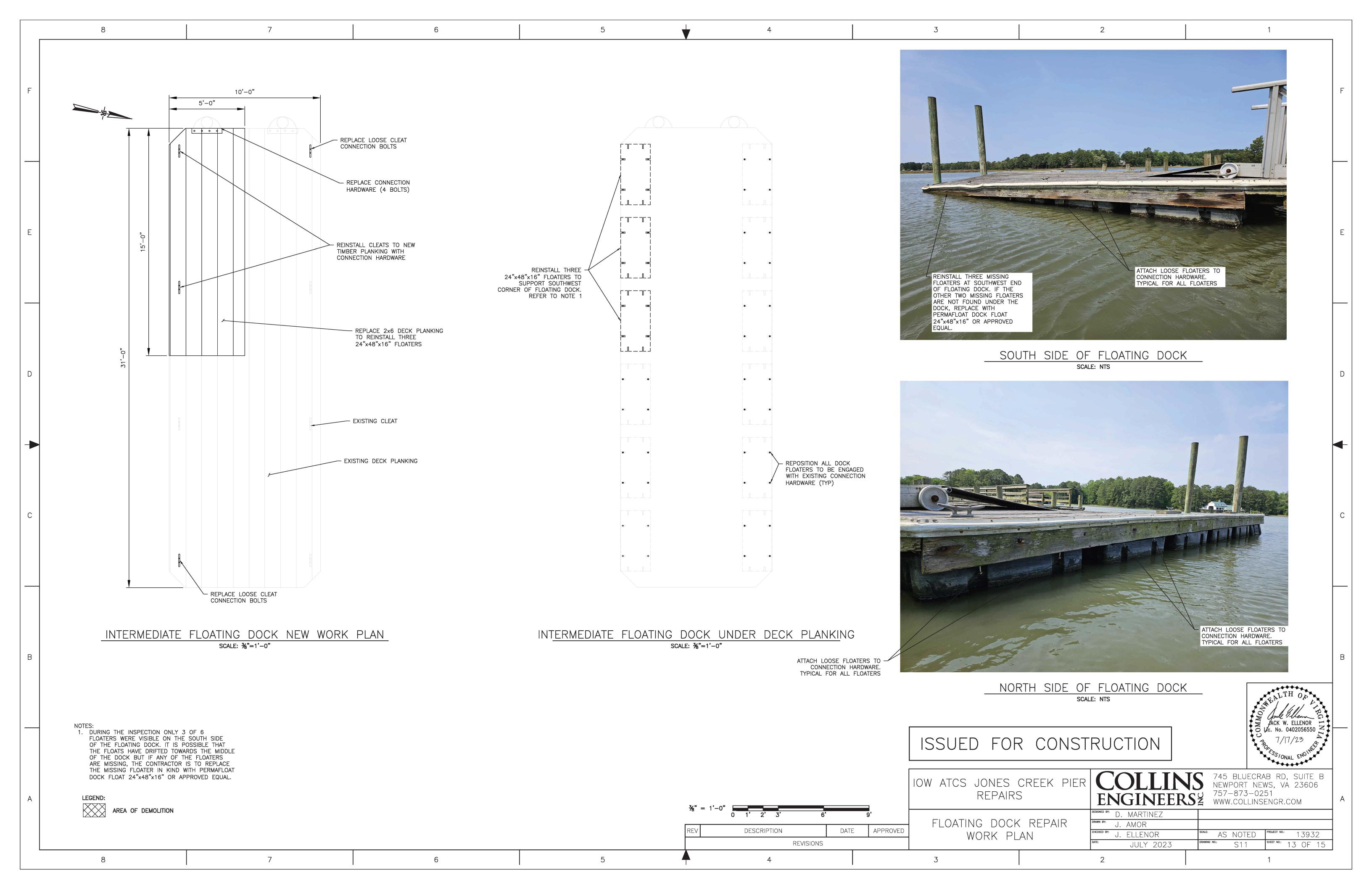


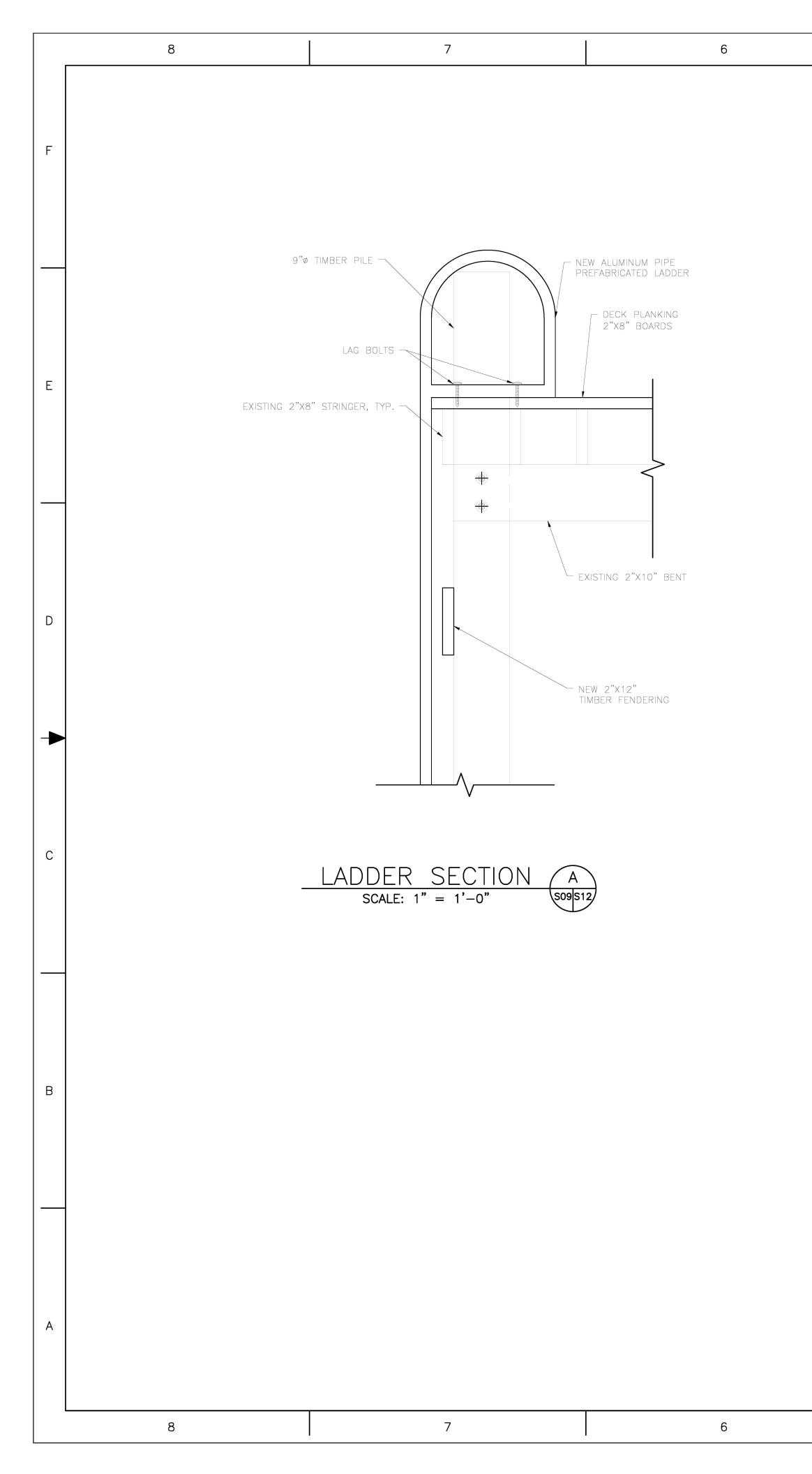
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 EXPOSED CONCRETE SURFACES, INSTALLIN INSTALLING NEW CONCRETE MATERIAL. F CONCRETE TRANSITION SHALL BE INSTALLE EXISTING CONCRETE RAMP HAS COMPOUND TOP SHALL MATCH TIMBER DOCK ELEVATION EACH ANCHORS SHALL BE EMBEDDED A M PRIOR TO PLACEMENT OF NEW MATERIAL, CLEANING, OR OTHER MEANS APPROVED E AND OTHER FOREIGN MATERIALS DETRIMEN THE CONTRACTOR SHALL REMOVE AND DIS REPAIRS IN AN APPROVED DISPOSAL AREA AND BRIDGE SPECIFICATIONS. CONCRETE REPAIR PROCEDURE: REMOVAL EDGE AND SURFACE CONDITIONING OF 1.1.1. CONCRETE PATCHES SHALL BE SQU 1.1.2. CREATE A CLEAN, SOUND SUBSTRAT CONCRETE SUBSTRATE BY HIGH PRI 1.1.3. IMMEDIATELY PRIOR TO PLACING NE CLEANED OF ALL DUST AND DEBRIS WITH WATER. A FINE SPRAY OF MO SURFACES. FACES OF EXISTING CON PRIOR TO PLACING NEW CONCRETE. CLEANING AND REPAIR OF REINFORCING S 2.1. INSTALL STAINLESS STEEL WIRE MESH A DRAWINGS. CLEAN EXPOSED REINFORCING STEEL O ALL CLEANING MEDIA AND DEBRIS BY N PLACEMENT MATERIAL AND INSTALLATION F APPROVED EQUAL. 	D SLOPE, BOTTOM OF CONCRETE PATCH WILL VARY BUT THE ON. MINIMUM OF 1" INTO THE EXISTING CONCRETE RAMP. CLEANING SHALL BE PERFORMED BY ABRASIVE BLAST BY THE ENGINEER TO REMOVE UNSOUND CONCRETE, RUST, OIL, NTAL TO ACHIEVING A BOND. SPOSE OF EXCESS MATERIAL AND DEBRIS RESULTING FROM A IN ACCORDANCE WITH SECTION 106.04 OF VDOT 2020 ROAD CONCRETE: JARE OR RECTANGULAR IN SHAPE WITH SQUARED CORNERS. TE BY REMOVING BOND-INHIBITING MATERIALS FROM THE DESSURE WATER BLASTING OR ABRASIVE BLASTING. EW CONCRETE, FACES OF EXISTING CONCRETE SHALL BE S BY BLOWING WITH OIL-FREE COMPRESSED AIR OR HOSING DISTURE SHALL BE IN A SATURATED SURFACE DRY CONDITION	TRANSITION SCA 2x2-W1.4 GA. S.S. WIRI AROUND C OR HELIC i" DIA. S.S. CONCRETE SCR " DIA. SCR TA SCR	A RAMP SECTIONER SECTIONER SCREWS AL ANCHORS, TYP. EWS OR	TUDE 1" MIN. 1" MIN. 1" MIN. 2" (MIN.); 1" (MAX.) NEW CONCRETE REBUILD MATERIAL 6" MAX 1" MIN.	EDGE OF PATCH ELEVATION TO MATCH TOP OF TIMBER DECKING		<image/> <section-header></section-header>	<image/> <section-header></section-header>	
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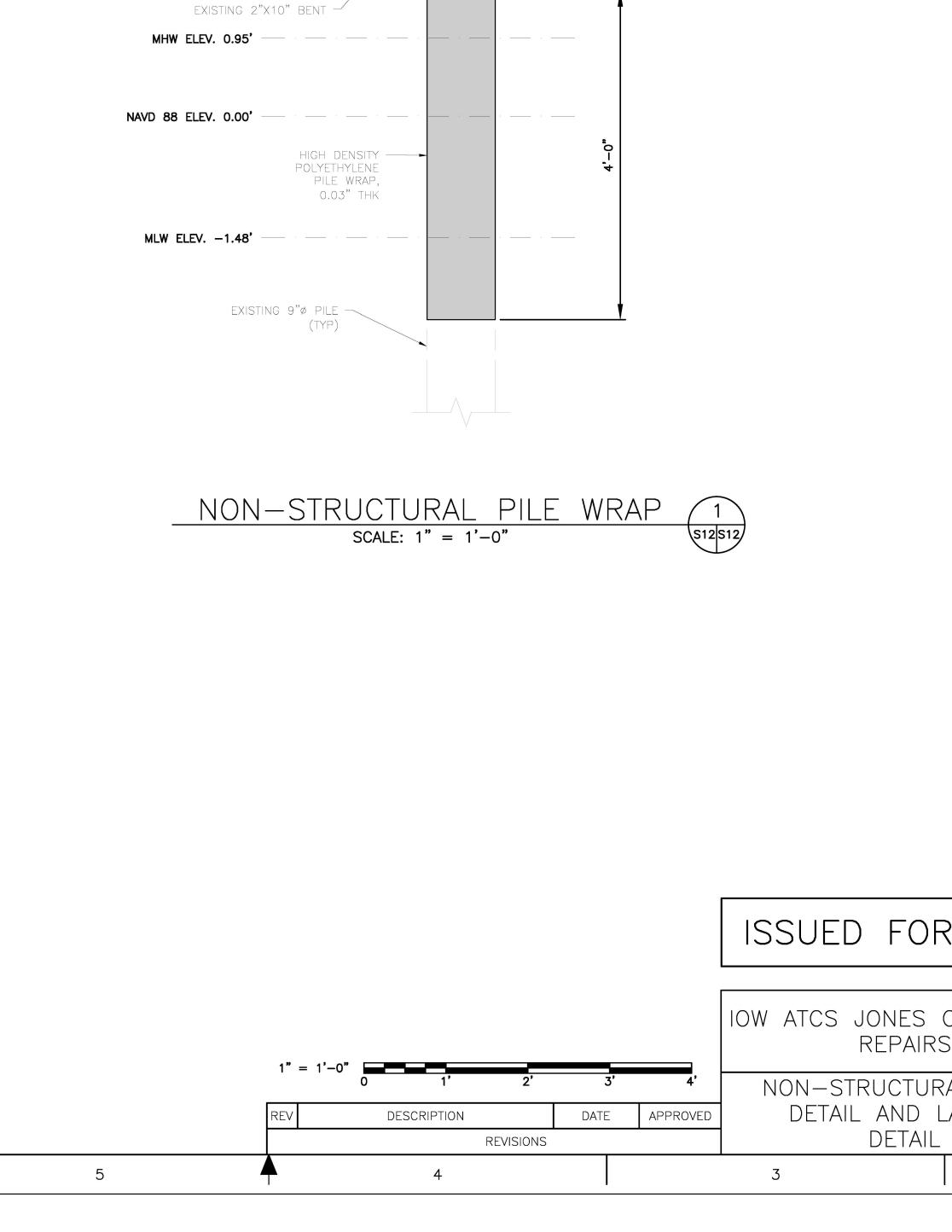












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NEW DECK PLANKING – 2"X8" BOARDS

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UR	CREEK PIER AL WRAP ADDER THECKED BY: DATE: 2	D. MARTINEZ J. AMOR J. ELLENOR JULY 2023	NEWPORT 757-873- WWW.COLL		A

r	8 7	6	5		4		3
F	8 7 PLE JACKET STRUCTURAL REPAIR NOTES: 1. The work under this section shall include Furnishing and installing a Bernaret outer Jacket, Made permanent jacket with multi-purpose marine lepacy grout and constructing a Berli at the top of the Jacket with multi-purpose marine lepacy grout and constructing a Berli at the top of the Jacket with multi-purpose marine lepacy grout and constructing a Berli at the top of the Jacket with multi-purpose marine lepacy grout and constructing a Berli at the top of the Jacket with multi-purpose marine lepacy grout and constructing a Berli at the top of the Jacket shall be FX-70 interf corrosonn-free Jackets or approved Equal, with an interlocking to a sandelasted surface and have no Bondo-Initiations adents in contact with the interlocking to a sandelasted surface and have no Bondo-Initiations adents in contact with the Hydro-ester Epoxy for a sandelasted prom on the purpose. The Jacket shall be formation of the Jacket shall be formation and the non-corroson's standorts which will be formation and the port of the Jacket shall be formation of the Jacket shall be formation adents in contact with the Hydro-ester Epoxy for a standort, its on shall share with a construction of the annular structure site of the repulsed positions. The Jacket shall be formation the Jacket shall be formation adents in the Educed and the annular structure share the place of the Bond optice, place and the annular struct mark and the formation of the Annular share with a construction of the Annular share with a Struct Stru	FROMMAINTAINED.6. CONTRACTOR S IS CURING.ACONSTRUCTION SURFACE PREPARA1. ALL PILE SURF OIL, GREASE, IDNT.2. NO PLACEMENT INSPECTOR.S OFLARPOSITION JACKETS: ININ1. PLACE FX-763 2. SPREAD JACKET 4. SET JACKET AT 5. INSTALL SELF- CENTERS.6. INSTALL SELF- CENTERS.6. INSTALL SELF- CENTERS.7. INSTALL TEMPO 8. PLACE MULTI-F 9. ALLOW TO CUR SHOWN ON THI OR0. COMPLETE FILL 11. ALLOW TO CUR SHOWN ON THI	TION: ACES TO BE COVERED WITH PILE JACKET WRT, AND ANY OTHER DELETERIOUS MATE OF THE JACKETS WILL BE ALLOWED UN TROWEL GRADE EPOXY OR APPROVED E OPEN AND PLACE AROUND PILE. TO RETURN TO ORIGINAL SHAPE ENGAGIN PROPER ELEVATION. DRILLING, SELF-TAPPING STAINLESS STEE NAL BRACING. RARY BOTTOM SEAL (MAY BE INSTALLED PURPOSE MARINE EPOXY GROUT INTO THE E OVERNIGHT. ING THE JACKET WITH EPOXY GROUT. E A MINIMUM OF 6 HOURS AND THEN C	Y TO ENSURE JACKET MAINTA TS OR PROTECTIVE COATING S TRIAL, WHICH WOULD PREVENT TIL THE PILE CLEANING HAS I TOUAL, NO FILLER, INTO FEMA NG INTERLOCKING JOINT. TL SCREWS, TO SECURING INTI PRIOR TO PLACING JACKET). E BOTTOM 6" OF THE ANNULA CONSTRUCT THE BEVEL USING ION OF WORK.	NS SHAPE WHILE THE EPOXY GROUT HALL BE THOROUGHLY CLEANED OF PROPER BONDING. BEEN APPROVED BY THE OWNER'S LE PORTION OF JOINT. ERLOCKING JOINT, AT 6 INCH AR VOID BY POURING OR PUMPING. TROWEL GRADE EPOXY MORTAR, AS	BOTTOM OF 2"x10" BENT	3
C	THE BINDER SHALL BE A TWO (2) COMPONENT (2:1 RATIO) HYDRO ESTER EPOXY OR APPROVED EQUAL MATERIAL MEETING THE FOLLOWING REQUIREMENTS: a. IT SHALL ADHERE INSENSITIVE FOR APPLICATION BOTH ABOVE AND BELOW WATER. b. IT SHALL ADHERE TO WET CONCRETE, STEEL, AND THE INSTALLED JACKETS. C COMPONENT: THE C COMPONENT SHALL BE COMPATIBLE WITH THE EPOXY BINDER AND, WHEN MIXED WITH THE EPOXY BINDER, SHALL PRODUCE A SMOOTH FLOWING POURABLE/PUMPABLE GROUT. MIXING: THE BINDER SHALL BE MECHANICALLY MIXED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION. a. COMBINE TWO (2) GALLONS A COMPONENT WITH ONE (1) GALLON B COMPONENT, MIX WITH A LOW SPEED DRIL ADD WIXING PADDLE FOR TWO MINUTES. ADD TWO (2) SO US BROSS OF THE C COMPONENT. MIX JUNI UNIF SCRAFE SIDES AND BOTTOW TO ENSURE THOROUCH MIXING. AVOID ENTRAPPING AIR WHILE MIXING. PUMP OR POUR IMMEDIATELY AFTER MIXING. HYDRO-ESTER TROWEL GRADE EPOXY GROUT: 1. THE TROWEL GRADE EPOXY GROUT SHALL BE COMPOSED OF FX-763 TROWEL GRADE EPOXY BINDER AND FX-701 FILLER OR APPROVED EQUAL AS FOLLOWS: BINDER: THE BINDER SHALL BE A TWO COMPONENT 2:1 RATIO TX-763 TROWEL GRADE HYDRO-ESTER OR APPROVED EQUA EPOXY MATERIAL MEE INSENSITIVE FOR APPLICATION BOTH ABOVE AND BELOW WATER. b. IT SHALL ADHERE TO WEL CONCRETE, STEEL, THE INSTALLED JACKETS. FILLER: THE FILLER SHALL BE TX-701 KILN-DRIED SILICA SAND OR APPROVED EQUAL. MIXING: THE BINDER SHALL BE MECHANICALLY MIXED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTION. c. ONE PART OF BINDER SHALL BE COMBINED WITH A MAXIMUM OF ONE PART OF FILLER. b. WIEN MIXED ON A RATIO OF ONE PART FILLER. TWO-INCH OURSE OF THIS WATERIAL AT SEVEN DAYS (CURING AT 66 TO 74" F) SHALL BE SAGO 2SI WHEN TESTED ACCORDING TO ASTM C-579 METHER	L DRM.	COATS OF EPOXY PROTECTIVE COATING	FROM THE TOP OF THE JACK	KET TO THE UNDERSIDE OF THE CAP		ANCHOR ANCHOR ANCHOR JACKET STRU SCALE: ³ / ₄ " =
A	 INDEROLESTER PROTECTIVE COATING FOR CONCRETE PLES: 1. THE HYDRO-ESTER PROTECTIVE COATING SHALL BE FX-70-9 PROTECTIVE COATING OR APPROVED EQUAL. a. IT SHALL BE A 100% SOLDS, MOISTURE-INSENSITIVE COATING CAPABLE OF BEING APPLIED BOTH TO DAM AND SURFACES. b. THE PROTECTIVE COATING SHALL HAVE A MINIMUM TENSILE STRENGTH OF 5,000 PSI AFTER FOLITEEN DAYS WH TESTED IN ACCORDANCE WITH ASTM D-638. CERTIFICATION AND MATERIAL TESTS: THE CONTRACTOR SHALL THENISH A CRETERICATE TO THE OWNER OR OWNER'S REPRESENTATIVE, ATTESTING THAT THE MATERIALS WEET ALL THE REQUIREMENTS CONTAINED HEREIM AND THAT THE SYSTEM SUBMITTED HAS BEEN SUCCESSFUL USED BY DIT, STATE, OR FEDERAL AGENCIES IN MARINE ENVIRONMENTS FOR A MINIMUM OF FIVE YEARS. TECHNICAL ASSISTANCE: THE CONTRACTOR SHALL PRODURE THE MANUFACTURER'S SERVICES TO PROVIDE ONSITE TECHNICAL ASSISTANCE DURING WITH THE PROCEDURE. SHOP DRAWINGS, SHOWING LOCATIONS OF STANDOFF SPACERS, METHOD OF FASTENING JACKET FORM TO PILLING, SEALING THE VIRON, AND THE VIRON, AND THE OWNER OR CONTRACTOR AND THE AND THE ENGINEER ARE SATISFING WITH THE PROCEDURE. SHOP DRAWINGS. SHOP DRAWINGS, SHOWING LOCATIONS OF STANDOFF SPACERS, METHOD OF FASTENING JACKET FORM TO PILLING, SEALING THE AND THE VISION, AND BRACING DURING PLACEMENT OF WATERIALS IN THE ANNUFAR SPACE BETWEEN TIJKKALATIONS. FRP JACKET OCONTRACTOR SHALL USE FOX INDUSTRIES FX-70 FIBERGIASS JACKET SYSTEM OR APPROVED EQUAL, THE FIBERGIASS JACKET (YX-70 FIBERGIASS JACKET OR APPROVED EQUAL, THE FIBERGIAS JACKET SYSTEM SHALL BE PROCED EQUAL. OPROVENT JACKET BULGE, STERN GRACHSS SHALL BE PLACE OUTSIDE OF THE JACKET. PROVIDE ACKET SHALL USE FOX INDUSTRIES FX-70 FIBERGIASS JACKET OR APPROVED EQUAL, THE FIBERGIAS JACKET SYSTEM OR APPROVED EQUAL, THE FIBERGIAS JACKET SYSTEM OR APPROVED EQUAL, THE FIBERGIAS JACKET SYSTEM SHALL HOUDE THE PIBERCIAS SACKET (YX-70 FIBE	EN LY THE ED IG HE) SS POXY		¥* = 1'-	-0° 0 1' 2' 3 DESCRIPTION REVISIONS	A' 5' DATE APPROV	ISSUED FC
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