

PLANS FOR PROPOSED
IMPROVEMENTS TO

VENETIAN CAUSEWAY BRIDGE NO. 874459 AND NO. 874474 HURRICANE IRMA REPAIRS

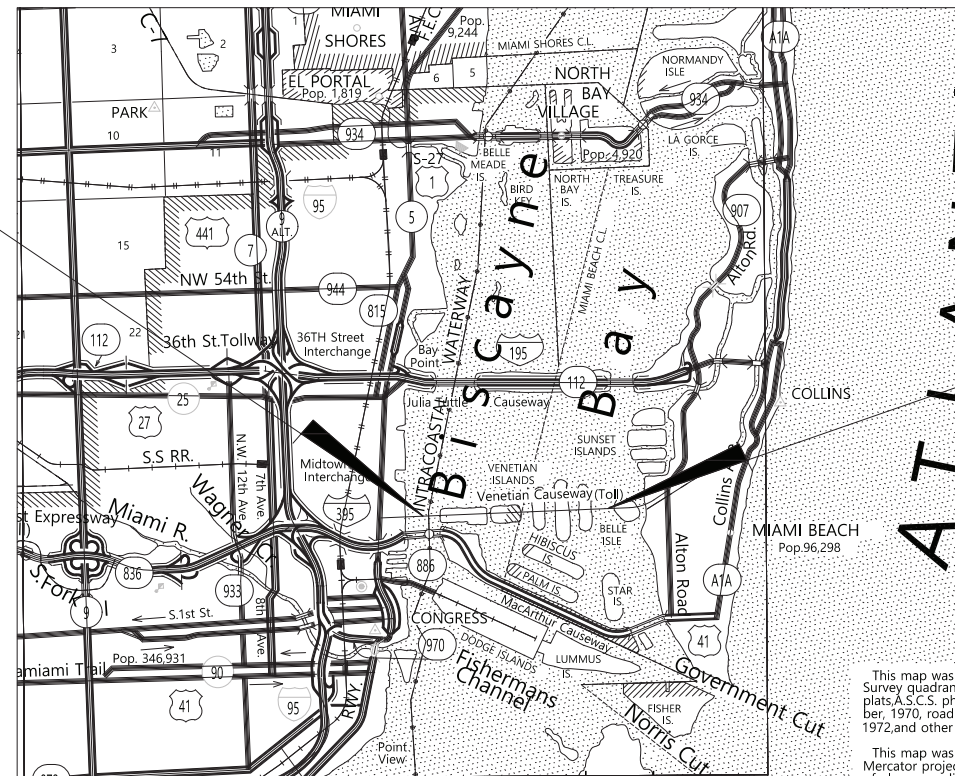
BRIDGES 874459 AND 874474 MIAMI-DADE
COUNTY PROJECT NO. EDP-MT-20200094
VENETIAN CAUSEWAY MAINTENANCE

NOTE:

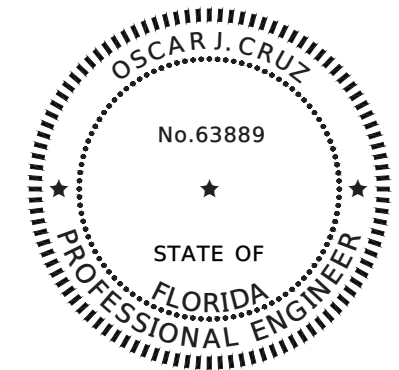
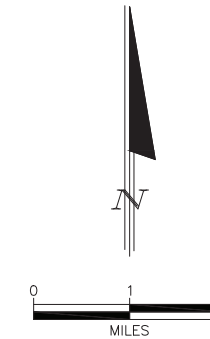
ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

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BRIDGE No. 874459
WEST VENETIAN CAUSEWAY



BRIDGE No. 874474
EAST VENETIAN CAUSEWAY



	LENGTH OF JOB	
	LIN. FT.	MILES
BRIDGE	307	0.05814
GROSS LENGTH OF JOB	307	0.05814
EXCEPTIONS	0	0
NET LENGTH OF JOB	307	0.05814

PREPARED FOR



MIAMI-DADE COUNTY
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS
HIGHWAY DIVISION

STEPHEN P. CLARK CENTER
701 NW 1 COURT
MIAMI, FLORIDA 33136

BY

ENGINEER OF RECORD:

OSCAR J. CRUZ
FLORIDA REGISTRATION P.E. No. 63889



STV INCORPORATED
6303 BLUE LAGOON DR. SUITE 400
MIAMI FL, 33126
(305)537-4673 FAX: (305)751-5311

ENGINEER OF RECORD:

JORGE LEON
FLORIDA REGISTRATION P.E. No. 68705

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS PARTS 1, 2 AND 3. THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS. THE FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, AS AMENDED BY CONTRACT DOCUMENTS.



CHROME ENGINEERING, INC.
16650 N. KENDALL DR., SUITE 205
MIAMI FL, 33196
(305) 432-6826

APPROVED	_____	COUNTY ENGINEER
RECOMMENDED	_____	ASSISTANT DIRECTOR
SUBMITTED	_____	HIGHWAY DIVISION
PROPOSED	_____	CHECK
DESIGN	_____	DRAWN
DATE	_____	SHEET B-00 OF B-15

DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS							
LEAD PROJECT: 20200094				COUNTY/SECTION :			
PROJECT(S):				COUNTY : MIAMI-DADE			
SUMMARY OF PAY ITEMS							
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY				
			874459	874474	EGB	TOTAL	
101-1-A	MOBILIZATION	LS	1	1	1	1	
104-11A	FLOATING TURBIDITY BARRIER	LF	1,000	1,000	0	2,000	
110-82	REMOVE & DISPOSE OF STRUCTURAL TIMBER	MB	4.8	4.8	0	9.6	
401-70-2	RESTORE SPALLED AREAS, LATEX MODIFIED MORTAR STYRENE-BUTADINE	CF	4.0	11.7	16.5	32.2	
455-76	WRAP PILE CLUSTERS	EA	3	2	0	5	
460-6-1	LADDERS & PLATFORMS, NEW CONSTRUCTION	LS	1	1	0	2	
470-1	TREATED TIMBER, STRUCTURAL	MB	8.0	8.8	0	16.8	
510-1	NAVIGATION LIGHTS- FIXED BRIDGE, SYSTEM	LS	1	1	0	2	
510-1-2	ELECTRICAL SYSTEM (REMOVAL)(EXISTING FIXED BRIDGE NAVAGATIONAL LIGHTS)	LS	1	1	0	2	
750-1-59	ARCHITECTUAL - BUILDING, REHAB	SF	321	172	144	637	
751-7	ARCHITECTUAL - ROOF REPAIRS	LS	1	1	1	1	

NOTE:

BRIDGE 874459 (WEST BRIDGE)
 BRIDGE 874474 (EAST BRIDGE)
 EGB = EAST GENERATOR BUILDING

PAY ITEM NOTES:

CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SUCH MISCELLANEOUS ITEMS AS NECESSARY TO COMPLETE THE REPAIRS AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ENGINEER.

CONTRACT UNIT PRICES FOR PAY ITEMS SHALL INCLUDE ADDITIONAL COSTS DUE TO ADVERSE WORK SITE CONDITIONS AND ENVIRONMENTAL COMPLIANCE COSTS.

PAY ITEM NO. 101-1-A MOBILIZATION (L.S.):

SHALL INCLUDE, BUT NOT LIMITED TO THE COST OF INSPECTION SCAFFOLDING, MOTORIZED INSPECTION VEHICLES, INSPECTION BOAT AND OPERATORS AND OTHER EQUIPMENT REQUIRED TO PROVIDE SAFE ACCESS FOR INSPECTION OR TESTING. A MANNED SAFETY BOAT SHALL BE PROVIDED AT THE BRIDGE SITE ANY TIME EMPLOYEES ARE WORKING OUTSIDE THE PROTECTION OF PERMANENT HANDRAILS OR BARRIERS.

PAY ITEM NO. 104-11A FLOATING TURBIDITY BARRIER (L.F.):

INCLUDES THE COST OF ALL CURTAINS NECESSARY TO REACH THE CHANNEL BOTTOM AND THE TEMPORARY CHANNEL MARKERS W/ LIGHTS.

PAY ITEM NO. 110-82 STRUCTURAL TIMBER REMOVAL AND DISPOSAL (MB):

ITEM INCLUDES THE COST OF THE REMOVAL AND DISPOSAL OF THE EXISTING TIMBER, WALES, SPACER BLOCKS, CATWALK PLANKS, DECK SUPPORTS AND CLEARANCE SIGN POST SUPPORTS WHICH HAS BEEN TREATED IN THE PAST WITH PRESERVATIVES AND SHALL BE CONSIDERED SPECIAL WASTE FOR DISPOSAL PURPOSES.

PAY ITEM NO. 401-70-2 RESTORE SPALLED AREAS, LATEX MODIFIED MORTAR STYRENE-BUTADINE (C.F.):

THIS PAY ITEM INCLUDES THE COST TO REPAIR SPALLED AREAS ON THE TOP OF THE CONCRETE PILES AND THE GENERATOR BUILDING ROOF DECK. REFER TO "PROJECT TECHNICAL SPECIAL PROVISIONS FOR CONCRETE SPALL REPAIRS" FOR ADDITIONAL INFORMATION. THIS PAY ITEM ALSO INCLUDES THE COST OF ADDITIONAL SPLICED REINFORCEMENT AND/OR GALVANIZED WIRE FABRIC REQUIRED FOR THE SPALL REPAIRS.

PAY ITEM 460-6-1 LADDER AND PLATFORM (LS.):

THIS PAY ITEM INCLUDES A NEW ALUMINUM CAGE LADDER CONNECTING TO THE NEW CATWALK ON THE SE SIDE OF FENDER SYSTEM. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR THE ALUMINUM CAGE LADDER SIGNED AND SEALED BY A FLORIDA LICENSED ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

PAY ITEM 470-1 TREATED STRUCTURAL TIMBER (MB):

THIS PAY ITEM INCLUDES FULL COMPENSATION FOR THE INSTALLATION OF NEW TREATED STRUCTURAL TIMBER AS SPECIFIED IN THE PLANS, INCLUDING LABOR, EQUIPMENT AND MATERIALS REQUIRED TO INSTALL ALL TREATED STRUCTURAL TIMBER, FASTENERS, AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. THIS PAY ITEM ALSO INCLUDES THE COST OF ALL HARDWARE, CABLES AND ERECTING CLEARANCE GAGE SIGNS.

PAY ITEM 510-1-2 ELECTRICAL SYSTEM (REMOVAL)(EXISTING FIXED BRIDGE NAVIGATIONAL LIGHTS) (LS):

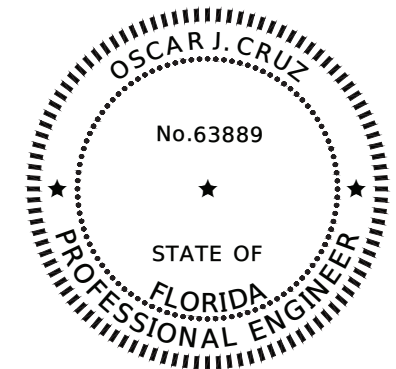
THIS PAY ITEM INCLUDES THE REMOVAL OF ALL THE EXISTING ELECTRICAL INSTALLATION TO BE REPLACED WITH NEW ONES AT EACH BRIDGE. CONTRACTOR SHALL RETURN TO MIAMI DADE COUNTY DEPARTMENT OF TRANSPORTATION PUBLIC WORKS ALL THE REMOVED EXISTING FENDER NAVIGATIONAL LIGHTS.

PAY ITEM 750-1-59 ARCHITECTURAL, BUILDING, REHAB (SF):

TENDER HOUSE: THIS ITEM INCLUDES FULL COMPENSATION FOR THE REMOVAL AND INSTALLATION OF NEW ROOF TILES, INCLUDING LABOR, EQUIPMENT AND MATERIAL REQUIRED FOR THE IN-KIND INSTALLATION OF NEW ROOF TILE. PAY ITEM ALSO INCLUDES THE REMOVAL AND DISPOSAL OF THE DAMAGED EXISTING ROOF TILES. EAST GENERATOR BUILDING: PAY ITEM INCLUDES STUCCO REPAIRS, PRESSURE CLEANING, PAINTING OF EXTERIOR WALLS AND SOFFIT, AS WELL AS THE CLEANING AND COATING OF THE STEEL DOOR GATE. COLOR TO BE COORDINATED WITH OWNER.

PAY ITEM 751-7 ARCHITECTURAL ROOF REPAIRS (LS):

EAST GENERATOR BUILDING: THIS ITEM INCLUDES FULL COMPENSATION FOR THE REMOVAL AND INSTALLATION OF 348 SF OF NEW MODIFIED BITUMEN ROOF SYSTEM INCLUDING LABOR, EQUIPMENT AND MATERIALS REQUIRED. PAY ITEM ALSO INCLUDES THE REMOVAL AND DISPOSAL OF THE EXISTING DAMAGED ROOF DECK.



BRIDGE NO. 874459, 874474

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REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



CHROME ENGINEERING, INC.
 16650 N. KENDALL DR., SUITE 205
 MIAMI FL, 33196
 (305) 432-6826
 OSCAR J. CRUZ, P.E. LICENSE # 63889

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
JAC	JAC	06/22/2020	ML	ML	08/25/2020
CHECKED BY	NAME	DATE	CHECKED BY	NAME	DATE
OC	OC	11/05/2020	OC	OC	11/05/2020

MIAMI-DADE COUNTY
 TRANSPORTATION & PUBLIC WORKS DTPW
 701 NW 1ST COURT
 MIAMI, FLORIDA 33136

B-01 SUMMARY OF PAY ITEMS

GENERAL SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION (DATED JANUARY 2020), AS AMENDED BY CONTRACT DOCUMENTS.

DESIGN SPECIFICATIONS:

JANUARY 2020 EDITION OF THE FDOT STRUCTURES MANUAL UNLESS OTHERWISE NOTED. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS (8TH EDITION) AND ALL SUBSEQUENT INTERIMS.

ENVIRONMENT:

SUPERSTRUCTURE: EXTREMELY AGGRESSIVE – COASTAL
SUBSTRUCTURE: EXTREMELY AGGRESSIVE – COASTAL

SURVEY:

ALL PUBLIC LAND CORNERS AND PRIMARY NETWORK CONTROL SURVEY MONUMENTS ARE TO BE PROTECTED BY THE CONTRACTOR. CORNERS AND MONUMENTS WITHIN THE WORK ZONE AND IN DANGER OF BEING DAMAGED, DESTROYED OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO THE BEGINNING OF WORK INCLUDE ALL COST OF REFERENCING AMONG THE VARIOUS SCHEDULED ITEMS ON THE CONTRACT.

UTILITIES:

ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.

THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND THESE LATERAL MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.

FOR THE LIST OF UTILITY OWNERS, PLEASE REFER TO GENERAL NOTES SHEET B-03.

REINFORCED CONCRETE REPAIR MATERIALS:

MATERIALS UTILIZED FOR REPAIRS TO THE REINFORCED CONCRETE EXISTING STRUCTURE SHALL BE IN ACCORDANCE WITH PROVIDED TECHNICAL SPECIAL PROVISION FOR CONCRETE REPAIRS.

REINFORCING STEEL:

ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60.

STRUCTURAL STEEL:

ALL STRUCTURAL STEEL SHALL BE ASTM A709, GRADE 36, UNLESS NOTED OTHERWISE.

PLAN DIMENSIONS:

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF REHABILITATION/REPAIR PROJECTS, THE EXACT EXTENT OF REHABILITATION/REPAIR WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE PLANS WERE DETAILED TO AGREE WITH THE EXISTING PLANS AND THE RESULTS OF A LIMITED FIELD INVESTIGATION. THE CONTRACTOR SHALL FIELD VERIFY PLAN DIMENSIONS AND ELEVATIONS PRIOR TO START OF WORK.

THE DETAILS ON THE DRAWINGS INDICATE THE LIMITS OF REMOVAL AND REPAIR BASED ON THE FIELD OBSERVATIONS PERFORMED ON JUNE 16, 2020 AND JULY 7, 2020. THE REMOVAL AND REPAIR UNITS SHOWN ON THE CONTRACT DRAWINGS INDICATE APPROXIMATE REMOVAL AND REPAIR LIMITS BASED ON THE CONDITION OF THE STRUCTURE AT THE TIME OF THE INSPECTIONS.

THE CONTRACTOR SHALL TAKE ALL SUCH FIELD MEASUREMENTS AS ARE NECESSARY TO ENSURE PROPER FIT OF THE FINISHED WORK, AND THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS MADE SHALL BE INCLUDED IN THE SHOP DRAWINGS AND SUBMITTED TO THE ENGINEER. THE CONTRACTOR SHALL USE AN ASTERISK (*) OR SIMILAR MEANS TO INDICATE A FIELD MEASUREMENT ON SHOP DRAWINGS.

NAVIGATION:

THE WATERS WITHIN THE PROJECT AREA ARE FREQUENTED BY BOAT TRAFFIC. THE CONTRACTOR SHALL NOTIFY THE UNITED STATES COAST GUARD MARINE COORDINATOR SAFETY OFFICE SIXTY (60) DAYS PRIOR TO BEGINNING CONSTRUCTION AND SUBMIT A PLAN FOR CLEARING THE CHANNEL IN THE EVENT OF HURRICANE WATCH/WARNING. AT NO TIME DURING THE CONSTRUCTION, SHALL THE WATERWAY BE CLOSED TO NAVIGATION.

EXISTING BRIDGE PLANS:

FOR ADDITIONAL DETAILS OF THE BRIDGE, SEE EXISTING BRIDGE PLANS. UNLESS OTHERWISE NOTED, THE DIMENSIONS, ELEVATIONS AND INTERSECTING ANGLES SHOWN ARE BASED ON THE INFORMATION AS DETAILED IN THE ORIGINAL CONSTRUCTION PLANS OF THE EXISTING BRIDGE AND MAY NOT REPRESENT AS-BUILT CONDITIONS.

SITE INSPECTION:

THE CONTRACTOR SHALL VISIT THE SITE BEFORE BIDDING TO BECOME FAMILIARIZED WITH THE PRESENT CONDITION AND TO JUDGE THE EXTENT AND NATURE OF THE WORK TO BE DONE UNDER THIS CONTRACT. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF FAILURE TO INCLUDE IN BID ALL ITEMS AND MATERIALS WHICH ARE REQUIRED TO BE FURNISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

WATER QUALITY:

CONTRACTOR WILL BE RESPONSIBLE TO ADHERE TO ALL CLASS I PERMIT REQUIREMENTS FROM DERM BEFORE BEGINNING WORK. THIS PROJECT IS ON THE INTRACOASTAL WATERWAY, WHICH IS DESIGNATED AS OUTSTANDING FLORIDA WATERS. NO DEGRADATION OF WATER QUALITY AND/OR INCREASED TURBIDITY OF THE WATER AND/OR THE DISCHARGE OF ANY FOREIGN MATERIAL INTO THE WATER SHALL BE PERMITTED. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREVENTING THE DISCHARGE OF ANY FOREIGN MATERIAL INTO THE WATER. THE CONTRACTOR SHALL ERECT THE BEST AVAILABLE MEANS OF EROSION AND TURBIDITY CONTROL MEASURES TO ISOLATE THE WORK AREA AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN APPROPRIATE SKIMMERS AND ABSORBENT MATERIALS AT THE WORK AREA FOR IMMEDIATE DEPLOYMENT IN THE EVENT OF AN ACCIDENTAL SPILL, THE COST SHALL BE INCLUDED IN PAY ITEM 104-11-A FLOATING TURBIDITY BARRIER.

ENVIRONMENTAL NOTES:

1. THE FOLLOWING FEDERALLY AND STATE LISTED ANIMAL SPECIES COULD INHABIT OR MIGRATE THROUGH THE CONSTRUCTION AREA: WEST INDIAN MANATEE AND SEA TURTLES. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS REGARDING ENDANGERED AND THREATENED SPECIES AND STATE LISTED SPECIES OF SPECIAL CONCERN. SHOULD THESE SPECIES BE ENCOUNTERED; THE CONTRACTOR SHALL CONTACT THE MIAMI-DADE COUNTY ENVIRONMENTAL OFFICE WITHIN 24 HOURS OF EACH ENCOUNTER.
2. SEAGRASS BEDS AND OTHER BENTHIC COMMUNITIES EXIST IN THE PROJECT AREA. THE CONTRACTOR SHALL PREVENT CONTACT WITH THE SEABED IN THESE AREAS AND ANY DISTURBANCE OF BOTTOM SEDIMENTS (E.G., FROM MOVING OR ANCHORING BARGES AND OTHER STRUCTURES). THE CONTRACTOR SHALL NOT SHADE ANY BENTHIC COMMUNITY FROM DIRECT SUNLIGHT FOR MORE THAN TWO WEEKS. ANCHORING LOCATIONS SHALL BE APPROVED BY THE ENGINEER WHO SHALL COORDINATE WITH THE MIAMI-DADE COUNTY ENVIRONMENTAL PERMITS COORDINATOR.
3. THE CONTRACTOR SHALL REVIEW ENVIRONMENTAL REQUIREMENTS OF ANY PROPOSED STAGING AREAS WITH MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS AT LEAST SEVENTY TWO (72) HOURS PRIOR TO USE.
4. THE STAGING AREA SHALL NOT BE WITHIN THE LIMITS OF THE WETLANDS.
5. ANY MATERIAL TO BE STOCKPILED FOR PERIODS GREATER THAN 24 HOURS SHALL BE PROTECTED BY APPROPRIATE EROSION CONTROL DEVICES AT NO ADDITIONAL COMPENSATION.
6. TIMBER FROM THE EXISTING FENDER SYSTEM HAS BEEN TREATED IN THE PAST WITH PRESERVATIVES AND SHALL BE CONSIDERED SPECIAL WASTE FOR DISPOSAL PURPOSES. THE CONTRACTOR SHALL PLACE THE TIMBERS ON A DRY IMPERVIOUS SURFACE. THE CONTRACTOR SHALL ADHERE TO DTPW CONSTRUCTION SPECS 110, D, 2.

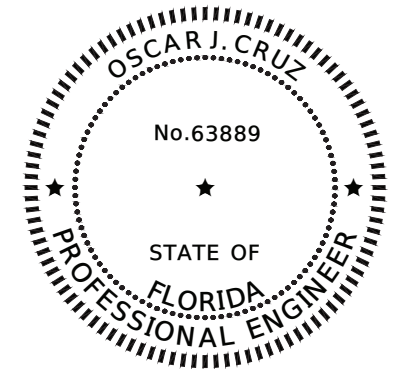
CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL PROVIDE SAFE ACCESS FOR THE ENGINEER AT ALL TIMES FOR HIS INSPECTION OF THE PROJECT. THIS INCLUDES (BUT IS NOT LIMITED TO) SCAFFOLDING, AND/OR INSPECTION BOAT WITH OPERATOR REMAINING IN PLACE UNTIL THE ENGINEER CAN PERFORM ALL NECESSARY INSPECTIONS AMONG THE VARIOUS SCHEDULED ITEMS ON THE CONTRACT.
2. ALL SALVAGEABLE MATERIALS THAT ARE TO BE REMOVED MUST BE DELIVERED AND UNLOADED AT THE MIAMI-DADE ROAD, BRIDGE AND CANAL MAINTENANCE DIVISION, 9301 NW 58TH STREET, MIAMI FL. 33178 TELEPHONE NO. (305) 592-3116.
3. CONTRACTOR SHALL BE RESPONSIBLE TO RESTORE TO EXISTING CONDITION ALL SIGNING AND MARKING DISTURBED DURING CONSTRUCTION.

SCOPE OF WORK:

THE PRIMARY TASKS TO BE COMPLETED BY THE CONTRACTOR ARE AS FOLLOWS:

1. REMOVE THE EXISTING DAMAGED TIMBER FENDER SYSTEM COMPONENTS INCLUDING, WALES, SPACER BLOCKS, CATWALK PLANKS, DECK SUPPORTS, ALL ASSOCIATED CONNECTIONS AND WIRE ROPES. INSTALL NEW WALES, SPACER BLOCKS, CATWALK PLANKS, DECK SUPPORTS, WIRE ROPES AND HANDRAIL IN ACCORDANCE WITH SHEETS B-06 THRU B-10.
2. REMOVE AND REPLACE FENDER NAVIGATIONAL LIGHT SYSTEM IN ACCORDANCE WITH SHEETS BE-01 THRU BE-06.
3. REMOVE AND REPLACE EXISTING DAMAGED LADDERS PLATFORMS IN ACCORDANCE WITH SHEET B-05, B-07 AND B-13.
4. REMOVE AND REPLACE ROOF TILES AT BOTH BRIDGE TENDER HOUSES AND THE ROOF MATERIALS AT THE EAST BRIDGE GENERATOR BUILDING IN ACCORDANCE WITH SHEETS B-05, B-07, B-14 AND B-15.
5. REPAIR SPALLS WITH EXPOSED REINFORCING AT EXISTING FENDER CONCRETE PILES, AND REPAIR CONCRETE DECK SLAB SPALLS AT EAST BRIDGE GENERATOR BUILDING IN ACCORDANCE WITH SHEETS B-14 AND B-15.
6. REPAIR EXISTING WALLS, REPAIR EXISTING ROOF DECK, CLEAN AND PAINT THE EXTERIOR WALLS AND STEEL GATE AT THE EAST GENERATOR BUILDING.



BRIDGE NO. 874459, 874474

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REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



CHROME ENGINEERING, INC.
16650 N. KENDALL DR., SUITE 205
MIAMI FL, 33196
(305) 432-6826
OSCAR J. CRUZ, P.E. LICENSE # 63889

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
JAC	JAC	06/22/2020	ML	ML	08/25/2020
CHECKED BY	OC	11/05/2020	CHECKED BY	OC	11/05/2020

MIAMI-DADE COUNTY
TRANSPORTATION & PUBLIC WORKS DTPW
701 NW 1ST COURT
MIAMI, FLORIDA 33136

ELECTRICAL NOTES:
 REFER TO SHEET BE-01 FOR ELECTRICAL GENERAL NOTES.

THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE FOLLOWING INDIVIDUALS AND/OR ENTITIES:

GENERAL CONTACTS:

COORDINATION:

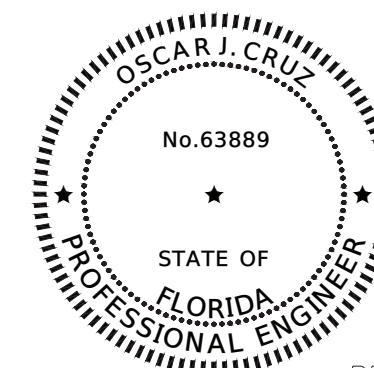
ENGINEER OF RECORD OSCAR J. CRUZ, P.E. 16650 N. KENDALL, SUITE 205 MIAMI, FL. 33196 305-432-6826 OCRUZ@CHROMEENG.COM	MIAMI-DADE COUNTY BRIDGE ENGINEER MANAGER GABRIEL DELGADO, P.E. MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS 701 NW 1ST COURT, MIAMI, FL. 33136 786-469-5371 GABRIEL.DELGADO@MIAMIDADE.GOV	UNITED STATES COAST GUARD OMAR BECEIRO WATERWAY MANAGEMENT SPECIALIST 100 MACARTHUR CAUSEWAY MIAMI BEACH, FL. 33139 305-535-4317	CITY OF MIAMI PUBLIC WORKS DEPARTMENT 444 SW 2ND AVENUE MIAMI, FL. 33130 305-416-1200
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PERMIT AGENCIES:

RER LISA SPOTALINO 701 NW 1ST CT AVENUE FLOOR, #209 MIAMI, FL. 33136 305-372-6841	FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION JENNIFER SMITH 400 N. CONGRESS AVENUE SUITE 200 WEST PALM BEACH, FL. 33401 561-681-6642	USACE AUDREY SIU MIAMI REGULATIONS FIELD OFFICE 6TH 9900 SOUTHWEST 107TH AVENUE SUITE 203 MIAMI, FL 33176 305-779-6051
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UTILITIES OWNERS:

COMPANIES	CONTACT	PHONE NUMBERS
COMCAST CABLE	LEONARD MAXWELL-NEWBOLD	954-447-8405
FPL FIBERNET LLC	DANNY HASKETT	305-552-2931
FLORIDA POWER & LIGHT-SUBAQUEOUS	TRACY STERN	800-868-9554
FLORIDA POWER & LIGHT TRANSMISSION	SEYED HAJASSADOLLAH	305-228-5290
MIAMI-DADE WATER & SEWER	SERGIO GARCIA	786-268-5320
AT&T DISTRIBUTION	STEVE LOW	305-222-8745



BRIDGE NO. 874459, 874474

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REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



CHROME ENGINEERING, INC.
 16650 N. KENDALL DR., SUITE 205
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 OSCAR J. CRUZ, P.E. LICENSE # 63889

	NAME	DATE		NAME	DATE
DESIGNED BY	JAC	06/22/2020	DRAWN BY	ML	08/25/2020
CHECKED BY	OC	11/05/2020	CHECKED BY	OC	11/05/2020
SUPERVISED BY:					



TRANSPORTATION & PUBLIC
 WORKS DTPW
 701 NW 1ST COURT
 MIAMI, FLORIDA 33136

B-03

GENERAL NOTES
 2 OF 3

STANDARD MANATEE CONDITIONS FOR IN - WATER WORK

- WEST INDIAN MANATEE (TRICHECHUS MANATUS LATIROSTRIS), A FEDERAL AND STATE LISTED ENDANGERED SPECIES, MAY MIGRATE THROUGH THE PROJECT AREA. THE PERMITTEE SHALL ADVISE ALL CONSTRUCTION PERSONNEL THAT THERE ARE CIVIL AND CRIMINAL PENALTIES FOR HARMING, HARASSING, OR KILLING MANATEES WHICH ARE PROTECTED UNDER THE MARINE MAMMAL PROTECTION ACT, THE ENDANGERED SPECIES ACT, AND THE FLORIDA MANATEE SANCTUARY ACT.
- THE CONTRACTOR SHALL POST TEMPORARY SIGN(S) IN A LOCATION PROMINENTLY VISIBLE TO WATER - RELATED CONSTRUCTION CREWS, MEASURING AT LEAST 3 BY 4 FEET THAT READS "CAUTION: MANATEE AREA", FOR A DURATION OF THE PROJECT. TEMPORARY SIGNS THAT HAVE BEEN APPROVED FOR THIS USE BY THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) MUST BE USED (SEE MYFWC.COM/MANATEE). QUESTIONS CONCERNING THESE SIGNS CAN BE SENT TO THE E-MAIL ADDRESS LISTED ABOVE.
- ALL VESSELS ASSOCIATED WITH THE CONSTRUCTION SHALL OPERATE AT "IDLE SPEED/NO WAKE" AT ALL, SIGNAGE WILL BE DISPLAYED NEXT TO THE CONTROLS ON ALL CONSTRUCTION RELATED VESSELS, MEASURE AT LEAST 8.5 BY 11 INCHES, AND READ "CAUTION: MANATEE HABITAT" AND AT ALL TIMES WHILE IN THE IMMEDIATE AREA AND WHILE IN WATER WHERE THE DRAFT OF THE VESSEL PROVIDES LESS THAN A FOUR - FT CLEARANCE FROM THE BOTTOM. ALL VESSELS WILL FOLLOW ROUTES OF DEEP WATER WHENEVER POSSIBLE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A DESIGNATED, TRAINED MANATEE OBSERVER DURING ALL WATER RELATED ACTIVITIES. THAT PERSON IS TO BE EQUIPPED WITH POLARIZED SUNGLASSES TO AID IN OBSERVATION. THAT MANATEE OBSERVER SHALL BE ON SITE DURING ALL IN - WATER CONSTRUCTION ACTIVITIES AND ADVISED PERSONNEL TO CEASE OPERATION UPON SIGHTING A MANATEE WITH 50 FEET OF ANY IN - WATER CONSTRUCTION ACTIVITY. ACTIVITIES WILL NOT RESUME UNTIL THE MANATEE(S) HAS MOVED BEYOND THE 50 - FOOT RADIUS OF THE PROJECT OPERATION, OR UNTIL 30 MINUTES ELAPSES IF THE MANATEE(S) HAS NOT REAPPEARED WITHIN 50 FEET OF OPERATION. ANIMALS MUST NOT BE HERDED AWAY OR HARASSED INTO LEAVING.
- ANY COLLISION WITH OR INJURY TO A MANATEE SHALL BE REPORTED IMMEDIATELY TO THE FISH AND WILDLIFE CONSERVATION HOTLINE AT 1-888-404-3922. COLLISION AND/OR INJURY SHOULD ALSO BE REPORTED TO THE U.S. FISH AND WILDLIFE SERVICE IN JACKSONVILLE (1-904-731-3336) FOR NORTH FLORIDA OR VERO BEACH (1-772-562-3909) FOR SOUTH FLORIDA, AND TO FWC AT IMPERILEDSPESIES@MYFWC.COM
- SITUATION OR TURBIDITY BARRIERS SHALL BE MADE OF MATERIAL IN WHICH MANATEES CANNOT BECOME ENTANGLED, SHALL BE PROPERLY SECURED, AND SHALL BE REGULARLY MONITORED TO AVOID MANATEE ENTANGLEMENT OR ENTRAPMENT. BARRIERS MUST NOT IMPEDE MANATEE MOVEMENT.
- MANATEES CAN GET ENTANGLED AND GET PAST TURBIDITY BARRIERS. THEREFORE, TURBIDITY BARRIERS SHALL BE MONITORED EACH MORNING AND EACH EVENING AT THE END OF THE WORK SHIFT TO CHECK FOR ENTANGLEMENT IN THE BARRIERS, AND ENTRAPMENT IN THE CONSTRUCTION AREA IF A MANATEE CROSSES A BARRIER. IF A MANATEE BECOMES ENTANGLED IN A BARRIER THE FWC MUST BE NOTIFIED IMMEDIATELY AT 1-888-404-FWCC. IF A MANATEE BECOMES ENTRAPPED WITHIN THE CONSTRUCTION AREA, THE BARRIER NEEDS TO BE REMOVED AND ONLY BE REPLACED ONCE THE ANIMAL LEAVES THE AREA UPON ITS OWN VOLITION.

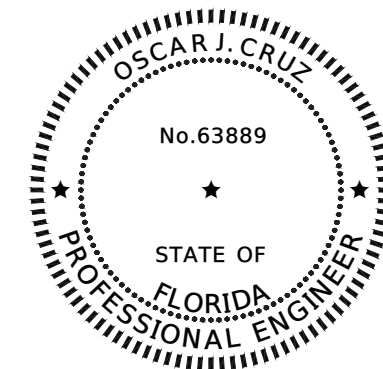
THE COST OF ALL ITEMS REQUIRED FOR THE MONITORING AND PROTECTION OF MANATEE SUCH AS, BUT NOT LIMITED TO MANATEE SIGNS, OBSERVERS, POLARIZED GLASSES, AND BINOCULARS, SHALL BE INCLUDED IN THE COST UNIT PRICE OF MOBILIZATION PAY ITEM NO. 101-1-A.

GENERAL NOTES:

- U.S. COAST GUARD NOTIFICATION: NOTIFY THE LOCAL OFFICE OF THE U.S. COAST GUARD AT LEAST 60 DAYS PRIOR TO BEGINNING CONSTRUCTION OF THE FENDER SYSTEM.
- CLEARANCE GAUGE AND LIGHT: CLEARANCE GAUGE TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR. CLEARANCE GAUGE WIDTH AND NUMERAL HEIGHT IS DEPENDANT ON VISIBILITY DISTANCE. THE REQUIRED VISIBILITY DISTANCE SHALL BE DETERMINED BY THE UNITED STATES COAST GUARD DISTRICT COMMANDER. PROVIDE AND INSTALL CLEARANCE GAUGE LIGHT IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 510 AND FDOT STANDARD PLANS 471-030.
- NAVIGATION LIGHTS: PROVIDE AND INSTALL NAVIGATION LIGHTS IN ACCORDANCE WITH PROJECT SPECIFIC DETAILS AND NOTES IN SHEETS BE-01 THROUGH BE-06. PROVIDE AND MAINTAIN TEMPORARY NAVIGATION LIGHTS DURING CONSTRUCTION UNTIL PERMANENT NAVIGATION LIGHTS ARE OPERATIONAL.
- BOLTS, THREADED BARS, NUTS, SCREWS AND WASHERS: FURNISH STAINLESS STEEL BOLTS IN ACCORDANCE WITH ASTM F593 TYPE 316. FURNISH STAINLESS STEEL THREADED BARS IN ACCORDANCE WITH ASTM A193 GRADE BB/VI. FURNISH STAINLESS STEEL NUTS IN ACCORDANCE WITH ASTM /VI F594 TYPE 316. FURNISH STAINLESS STEEL SCREWS IN ACCORDANCE WITH ASTM F593 TYPE 305. FURNISH STAINLESS STEEL WASHERS COMPATIBLE WITH BOLTS, THREADED RODS AND NUTS UNDER HEADS AND NUTS. TORQUE NUTS ON J" DIAMETER BOLTS AND THREADED BARS TO 150 LB-FT. KEEP THREADS ON BOLTS, THREADED BARS AND NUTS FREE FROM DIRT, COARSE GRIME AND SAND TO PREVENT GALLING AND SEIZING DURING TIGHTENING.
- WIRE ROPE: PROVIDE WIRE ROPE MEETING ONE OF THE FOLLOWING REQUIREMENTS:
 - 1/2" DIAMETER 6X19, 6X25 OR 6X37 CLASS IWRC TYPE 316 STAINLESS STEEL WIRE ROPE WITH A MINIMUM BREAKING STRENGTH OF 18,000 LBS.
 - 1/2" DIAMETER 6X 19 GALVANIZED WIRE ROPE WITH ULTRAVIOLET RAY RESISTANT POLYPROPYLENE IMPREGNATION HAVING AN OUTSIDE DIAMETER OF 5/8" WITH A MINIMUM BREAKING STRENGTH OF 22,000 LBS. PROTECT ALL ENDS WITH HEAT SHRINKABLE END CAPS COMPATIBLE WITH THE ROPE'S POLYPROPYLENE THAT PROVIDE AN EFFECTIVE WATER-TIGHT SEAL.

GENERAL NOTES (CONTD.):

- DURING ALL CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS, OR OTHER MATERIAL INTO THE CHANNEL BELOW THE BRIDGE. PLATFORMS, NETS, SCREENS, OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE ENGINEER DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED. THE COST OF PROVIDING SUCH PROTECTIVE DEVICES SHALL BE INCIDENTAL TO THE APPLICABLE ITEMS OF WORK HAVING AWARDED CONTRACT PRICES.
- NO SPOIL AREA IS AVAILABLE FOR THIS CONTRACT WITHIN THE MIAMI-DADE COUNTY RIGHT-OF-WAY. ALL SPOIL MATERIAL (STRUCTURAL, CONCRETE, REINFORCING STEEL, ETC.) REMOVED FROM THE JOB SITE SHALL BE DISPOSED BY THE CONTRACTOR OFF OF THE MIAMI-DADE COUNTY PROPERTY. THE CONTRACTOR SHALL COMPLY WITH THE LOCAL AND STATE REGULATIONS THAT APPLY TO THE AREA CHOSEN FOR DISPOSAL OF THIS SPOIL MATERIAL. THE COST OF THIS WORK SHALL BE INCLUDED IN OTHER RELATED ITEMS. NO SEPARATE PAYMENT WILL BE ALLOWED.
- ALL EXCESS MATERIAL AS DESIGNATED BY THE ENGINEER IS TO BE DISPOSED BY THE CONTRACTOR IN AREAS PROVIDED BY HIM WITHIN 72 HOURS OF BEING DEPOSITED IN THE CONSTRUCTION AREA AND AT THE CONTRACTOR'S EXPENSE.
- CHAMFER: ALL EXPOSED EDGES AND CORNERS OF CONCRETE SHALL BE CHAMFERED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ALL TIMBER TO BE ROUGH-CUT AND SHALL RECEIVE "SALT WATER" TREATMENT IN ACCORDANCE WITH SECTION 955 OF THE SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED.
- ALL TIMBER SHALL BE CUT TO DIMENSIONS SHOWN PRIOR TO TREATMENT.
- PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN INDIVIDUAL BID ITEMS SHALL BE INCLUDED IN THE CONTRACT PRICES FOR BID ITEMS.
- DOMEHAD BOLTS SHALL HAVE SLOTS OR HOLES ON HEADS FOR 60D NAILS.
- QUANTITIES: DUE TO THE NATURE OF THE DETERIORATION PRESENT ON THESE FENDERS, MIAMI-DADE COUNTY HAS THE AUTHORITY TO INCREASE, DECREASE, OR DELETE THE QUANTITIES OF WORK TO BE PERFORMED IN EXCESS OR BELOW THE PERCENTAGES ALLOWED BY FDOT SECTION 4-3.1 OF THE STANDARD SPECIFICATIONS AND REVISIONS THERETO WITH NO ADJUSTMENT TO THE CONTRACT UNIT PRICES AS STATED UNDER DTPW, GENERAL REQUIREMENTS, ARTICLE 1.02.B. THE WORK WILL BE ASSIGNED BY THE ENGINEER FOR A SPECIFIC GROUP OF LOCATIONS AT A TIME. IN ADDITION TO THE LOCATIONS OF CONCRETE/SPALL REPAIRS SHOWN IN THE PLANS, THE CONTRACTOR WILL PERFORM A SURVEY OF THE BRIDGE FENDER PILES AND GENERATOR BUILDING CONCRETE SLAB IN THE PRESENCE OF THE ENGINEER PRIOR TO COMMENCING ANY WORK IN ORDER TO IDENTIFY ALL LOCATIONS IN NEED OF REPAIR. NO CONCRETE REMOVAL WILL BE PERFORMED WITHOUT THE ENGINEER'S APPROVAL. THE MIAMI-DADE COUNTY WILL BE ALLOWED TO STOP WORK DUE TO POOR WORKMANSHIP, UNAPPROVED MATERIALS OR UNAPPROVED WORK PROCEDURE AT ANY TIME WITHOUT CONSEQUENCE TO MIAMI-DADE COUNTY.
- THE CONTRACTOR WILL ADHERE TO THE REQUIREMENTS OF THE TECHNICAL SPECIAL PROVISIONS FOR CONCRETE SPALL REPAIRS WITH POLYMER MODIFIED PORT/AND CEMENT MORTAR. PLACE THE POLYMER MODIFIED PORT/AND CEMENT MORTAR WITH CORROSION INHIBITORS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- IN THE EVENT THAT MORE THAN 20% OF THE CROSS SECTIONAL AREA OF ANY STRUCTURAL MEMBER NEEDS TO BE REMOVED, PRIOR TO THE REMOVAL OF MORE THAN 20% OF THE MEMBER CROSS SECTIONAL AREA, THE CONTRACTOR WILL STOP WORK AND NOTIFY THE ENGINEER FOR FURTHER INSTRUCTIONS.
- STAGING AREA: CONTRACTOR SHALL COORDINATE THE LOCATION OF ANY REQUIRED STAGING AREA WITH MIAMI-DADE PARKS, RECREATION AND OPEN SPACES DEPARTMENT LOCATED AT 275 NW 2ND STREET, 4TH FLOOR, MIAMI, FLORIDA, 33128. CONTACT NUMBER: 305-755-5464
- MAINTENANCE OF TRAFFIC: VEHICULAR, BICYCLE AND PEDESTRIAN ACCESS SHALL NOT BE CLOSED AT ANY TIME DURING CONSTRUCTION OPERATIONS. CONTRACTOR SHALL PROVIDE SIGNED AND SEALED TRAFFIC CONTROL PLANS FOR REVIEW AND APPROVAL BY MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT FOR ANY VEHICULAR LANE, BICYCLE LANE AND/OR SIDEWALK CLOSURE REQUESTS.
- UTILITIES: FOR PLAN LOCATION OF EXISTING UTILITIES, SEE THE PLAN AND ELEVATION SHEETS. CONTACT SUNSHINE ONE OF FLORIDA BEFORE BEGINNING WORK FOR LOCATIONS OF EXISTING FACILITIES AT 1-800-432-4770. THE CONTRACTOR SHALL NOTIFY ALL POTENTIALLY AFFECTED UTILITY OWNERS TWO (2) FULL WORKING DAYS IN ADVANCE PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES.



BRIDGE NO. 874459, 874474

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REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY



CHROME ENGINEERING, INC.
16650 N. KENDALL DR., SUITE 205
MIAMI FL, 33196
(305) 432-6826
OSCAR J. CRUZ, P.E. LICENSE # 63889

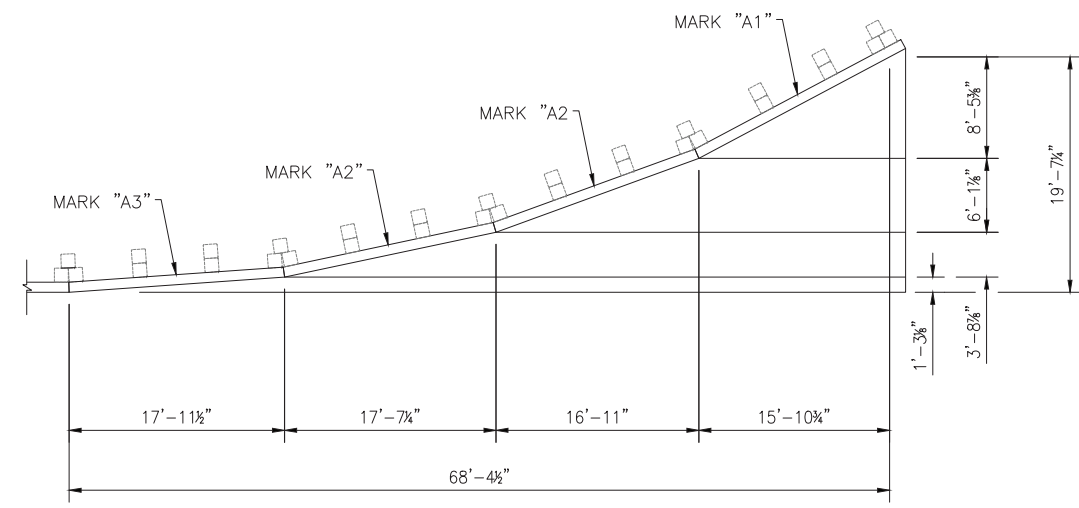
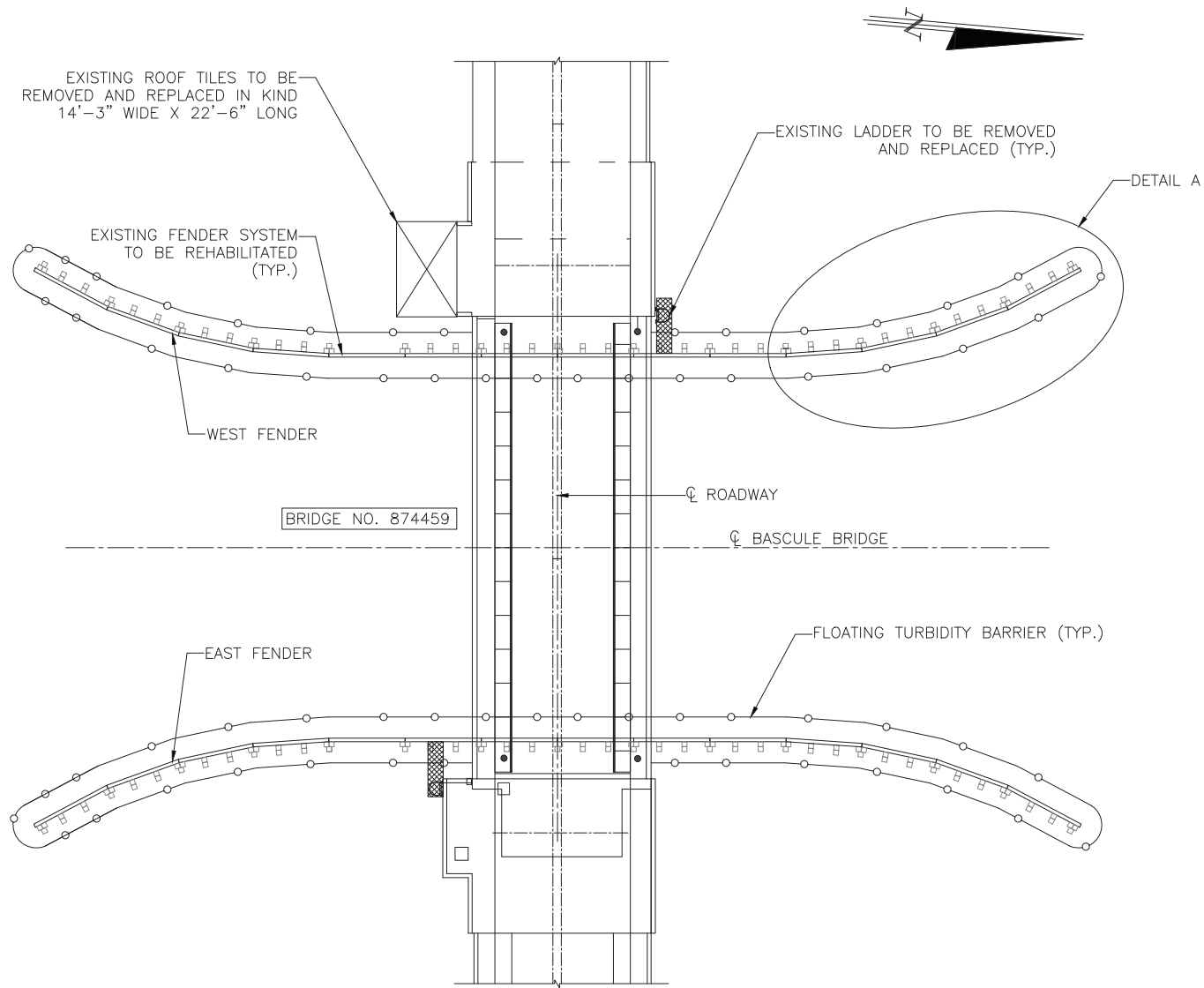
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DESIGNED BY: JAC	06/22/2020	DRAWN BY: ML	08/25/2020
CHECKED BY: OC	11/05/2020	CHECKED BY: OC	11/05/2020



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701 NW 1ST COURT
MIAMI, FLORIDA 33136

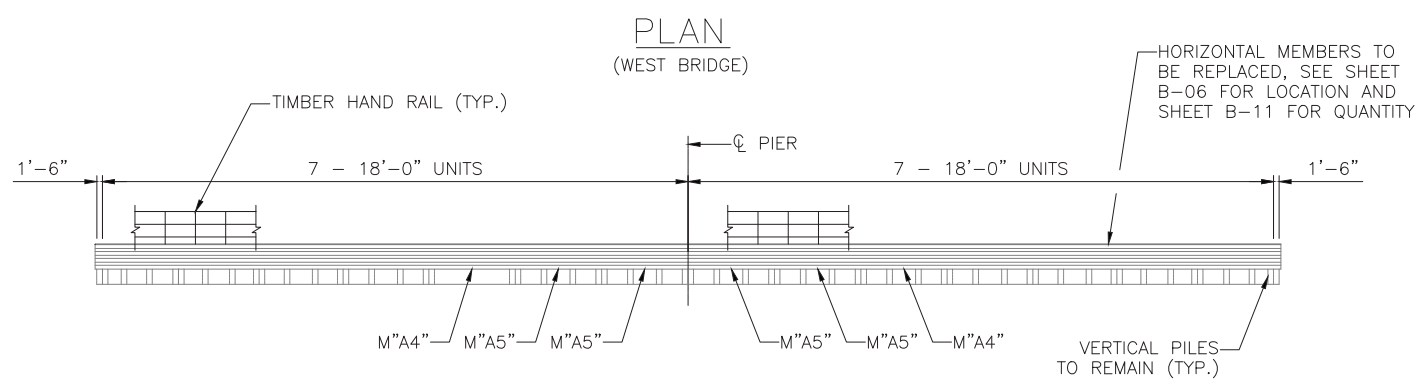
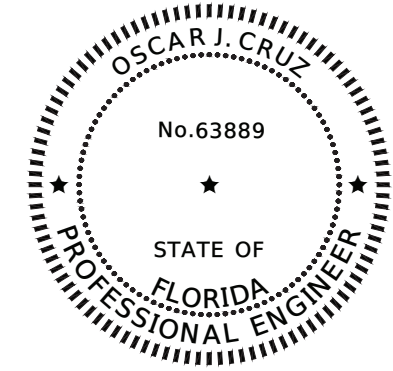
B-04

GENERAL NOTES
3 OF 3

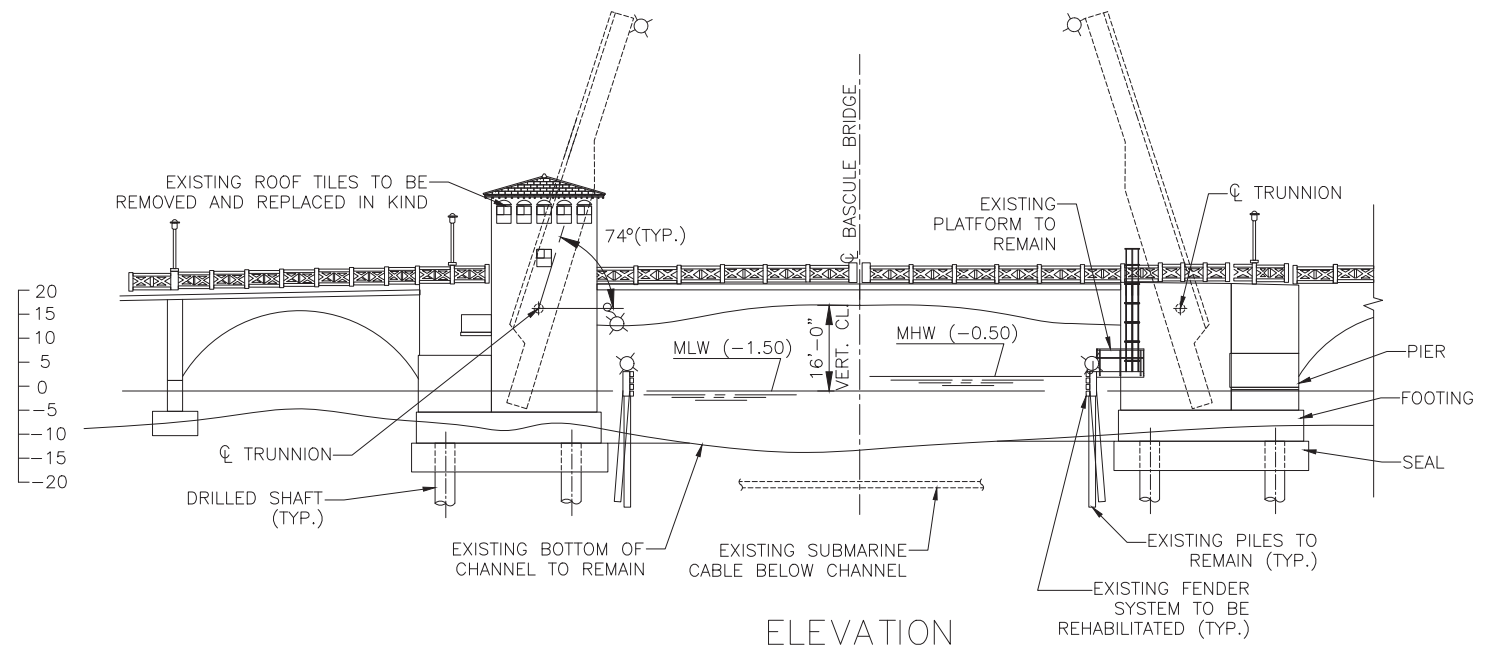


DETAIL A

- NOTES:
1. FOR FENDER CROSS SECTION SEE SHEET B-09.
 2. FOR LOCATIONS OF DAMAGED/MISSING WALES, SPACER BLOCKS, CAT WALK PLANKS, DECK SUPPORTS AND WIRE CABLES SEE SHEET B-06.
 3. FOR DETAILS OF WALES, SPACER BLOCKS, CATWALK PLANKS, DECK SUPPORTS, WIRE CABLE AND ASSOCIATED CONNECTIONS, SEE SHEET B-10.
 4. FOR NEW NAVIGATIONAL LIGHTS SEE BE-06.
 5. ALL ELEMENTS SHOWN ON THIS SHEET ARE EXISTING UNLESS OTHERWISE NOTED, AND ARE BASED ON INFORMATION OBTAINED FROM EXISTING DRAWINGS AND WITH LIMITED FIELD INVESTIGATION.
 6. OVERALL LENGTH OF EXISTING WEST FENDER = 252 LINEAR FEET
 7. OVERALL LENGTH OF EXISTING EAST FENDER = 252 LINEAR FEET



WEST AND EAST FENDER



ELEVATION

BRIDGE NO. 874459

REVISIONS							
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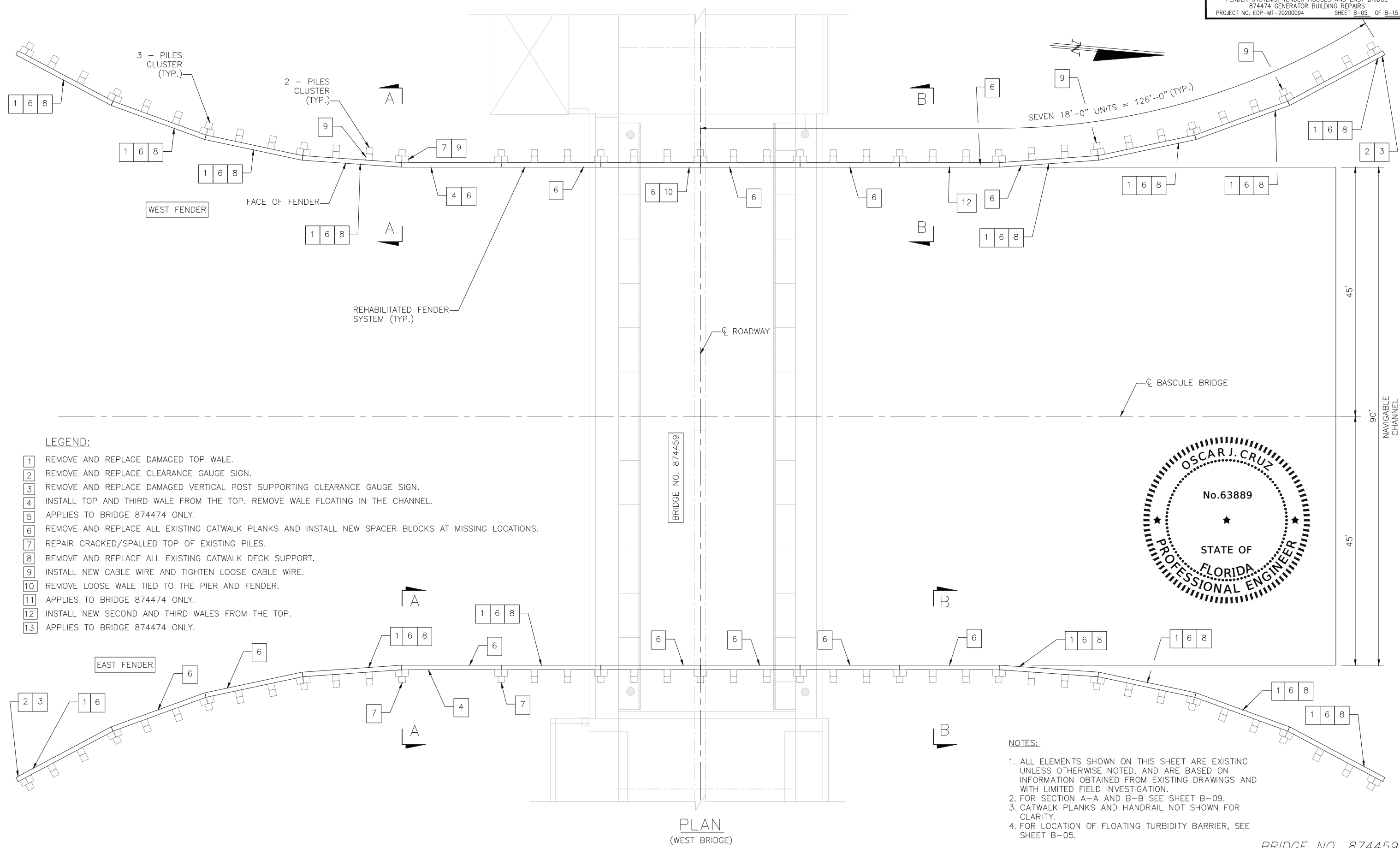
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JAC	JAC	06/22/2020	ML	ML	08/25/2020
CHECKED BY	OC	11/05/2020	CHECKED BY	OC	11/05/2020

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B-05

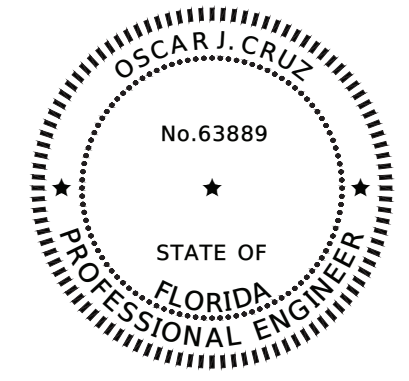
PLAN AND ELEVATION
 BRIDGE 874459

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LEGEND:

- 1 REMOVE AND REPLACE DAMAGED TOP WALE.
- 2 REMOVE AND REPLACE CLEARANCE GAUGE SIGN.
- 3 REMOVE AND REPLACE DAMAGED VERTICAL POST SUPPORTING CLEARANCE GAUGE SIGN.
- 4 INSTALL TOP AND THIRD WALE FROM THE TOP. REMOVE WALE FLOATING IN THE CHANNEL.
- 5 APPLIES TO BRIDGE 874474 ONLY.
- 6 REMOVE AND REPLACE ALL EXISTING CATWALK PLANKS AND INSTALL NEW SPACER BLOCKS AT MISSING LOCATIONS.
- 7 REPAIR CRACKED/SPALLED TOP OF EXISTING PILES.
- 8 REMOVE AND REPLACE ALL EXISTING CATWALK DECK SUPPORT.
- 9 INSTALL NEW CABLE WIRE AND TIGHTEN LOOSE CABLE WIRE.
- 10 REMOVE LOOSE WALE TIED TO THE PIER AND FENDER.
- 11 APPLIES TO BRIDGE 874474 ONLY.
- 12 INSTALL NEW SECOND AND THIRD WALES FROM THE TOP.
- 13 APPLIES TO BRIDGE 874474 ONLY.



NOTES:

1. ALL ELEMENTS SHOWN ON THIS SHEET ARE EXISTING UNLESS OTHERWISE NOTED, AND ARE BASED ON INFORMATION OBTAINED FROM EXISTING DRAWINGS AND WITH LIMITED FIELD INVESTIGATION.
2. FOR SECTION A-A AND B-B SEE SHEET B-09.
3. CATWALK PLANKS AND HANDRAIL NOT SHOWN FOR CLARITY.
4. FOR LOCATION OF FLOATING TURBIDITY BARRIER, SEE SHEET B-05.

PLAN
(WEST BRIDGE)

BRIDGE NO. 874459

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



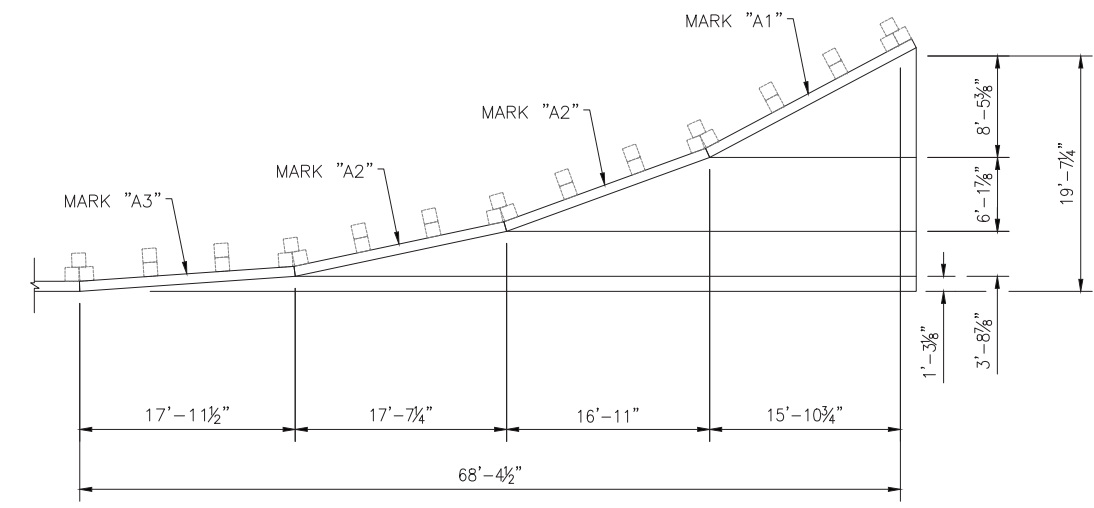
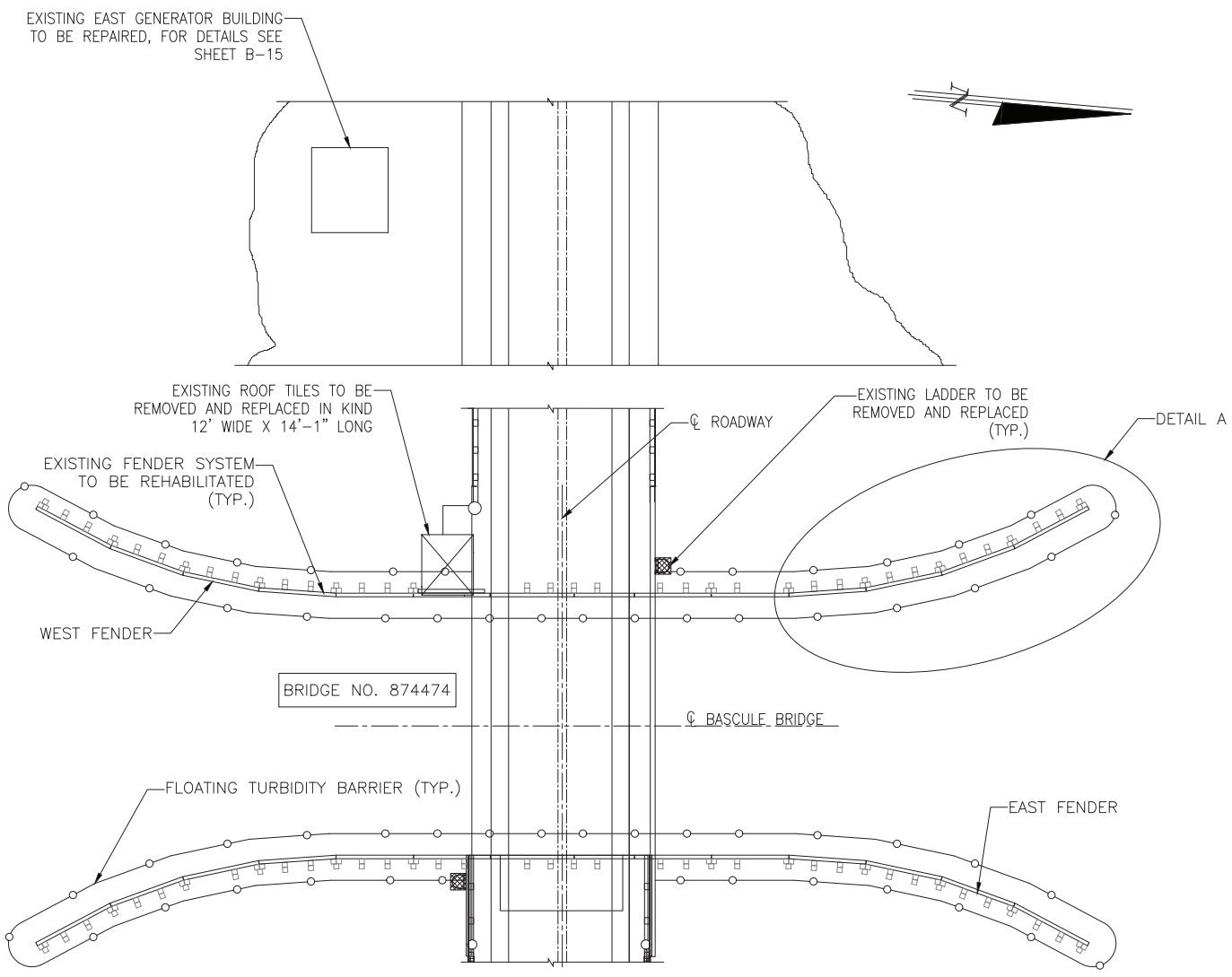
CHROME ENGINEERING, INC.
 16650 N. KENDALL DR., SUITE 205
 MIAMI FL, 33196
 (305) 432-6826
 OSCAR J. CRUZ, P.E. LICENSE # 63889

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
JAC	JAC	06/22/2020	ML	ML	08/25/2020
CHECKED BY	OC	11/05/2020	CHECKED BY	OC	11/05/2020

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 MIAMI, FLORIDA 33136

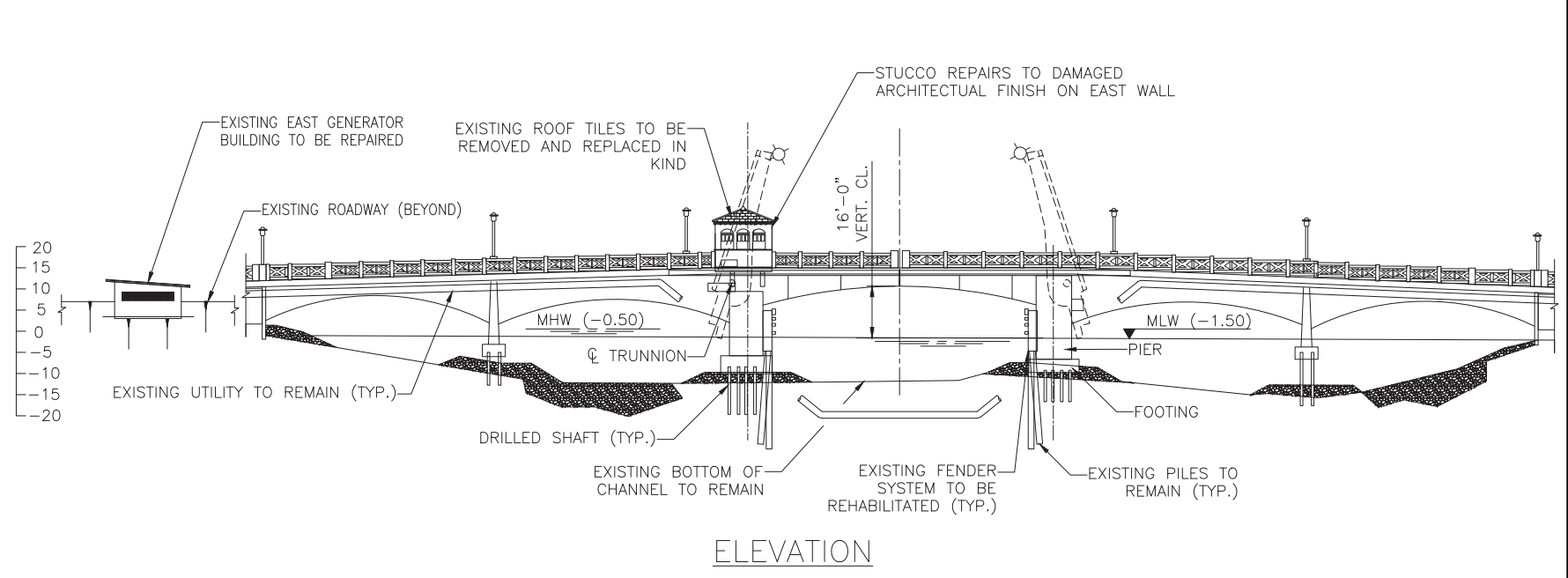
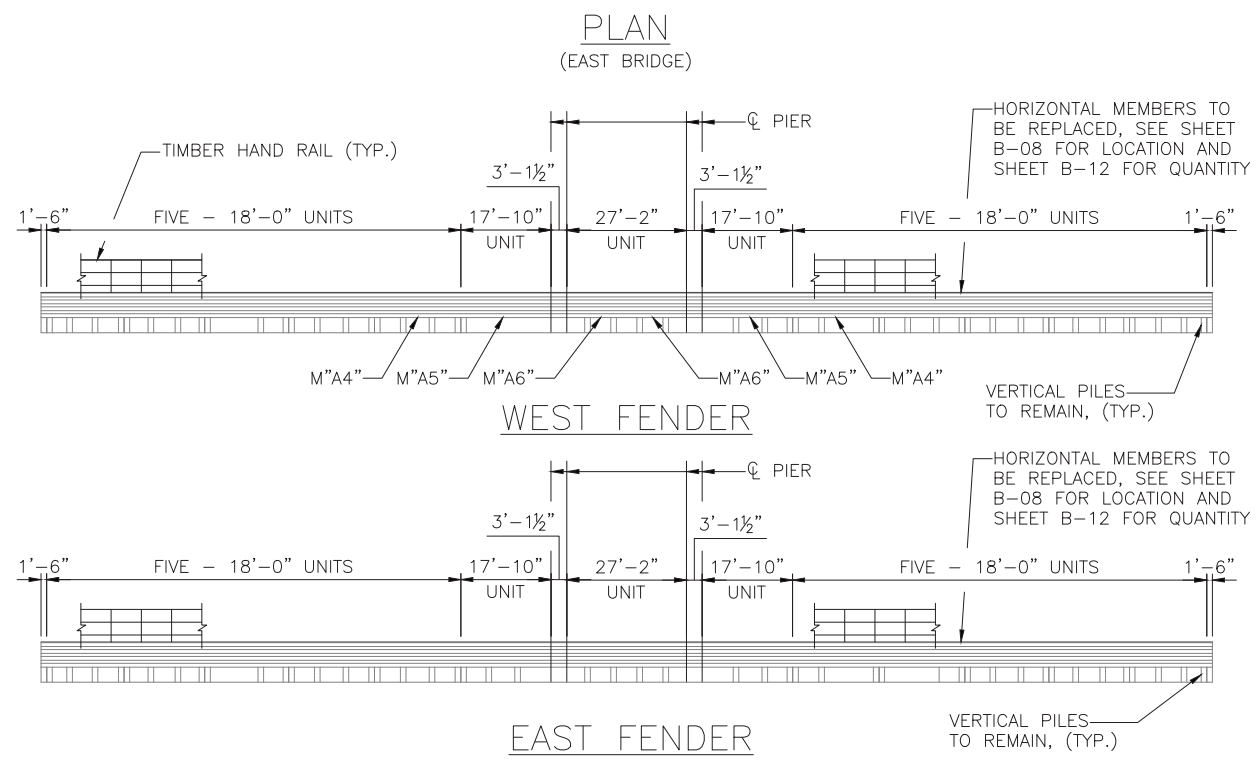
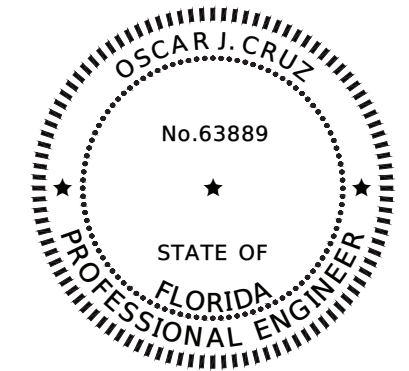
B-06
FENDER SYSTEM PLAN
 VIEW BRIDGE 874459

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DETAIL A

- NOTES:
1. FOR FENDER CROSS SECTION SEE SHEET B-10.
 2. FOR LOCATIONS OF DAMAGED/MISSING WALES, SPACER BLOCKS, CATWALK PLANKS, DECK SUPPORTS AND WIRE CABLES SEE SHEET B-08.
 3. FOR DETAILS OF WALES, SPACER BLOCKS, CATWALK PLANKS, DECK SUPPORTS, WIRE CABLE AND ASSOCIATED CONNECTIONS, SEE SHEET B-10.
 4. FOR NEW NAVIGATIONAL LIGHTS SEE SHEET BE-06.
 5. ALL ELEMENTS SHOWN ON THIS SHEET ARE EXISTING UNLESS OTHERWISE NOTED, AND ARE BASED ON INFORMATION OBTAINED FROM EXISTING DRAWINGS AND WITH LIMITED FIELD INVESTIGATION.
 6. OVERALL LENGTH OF EXISTING WEST FENDER = 250 LINEAR FEET
 7. OVERALL LENGTH OF EXISTING EAST FENDER = 250 LINEAR FEET
 8. FOR EAST GENERATOR BUILDING REPAIRS SEE SHEET B-14.



BRIDGE NO. 874474

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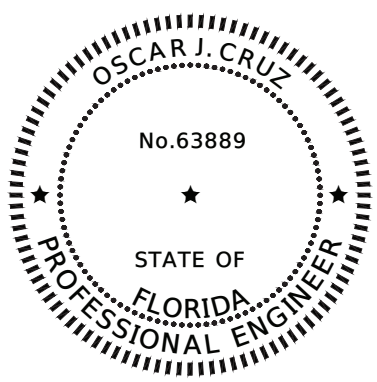
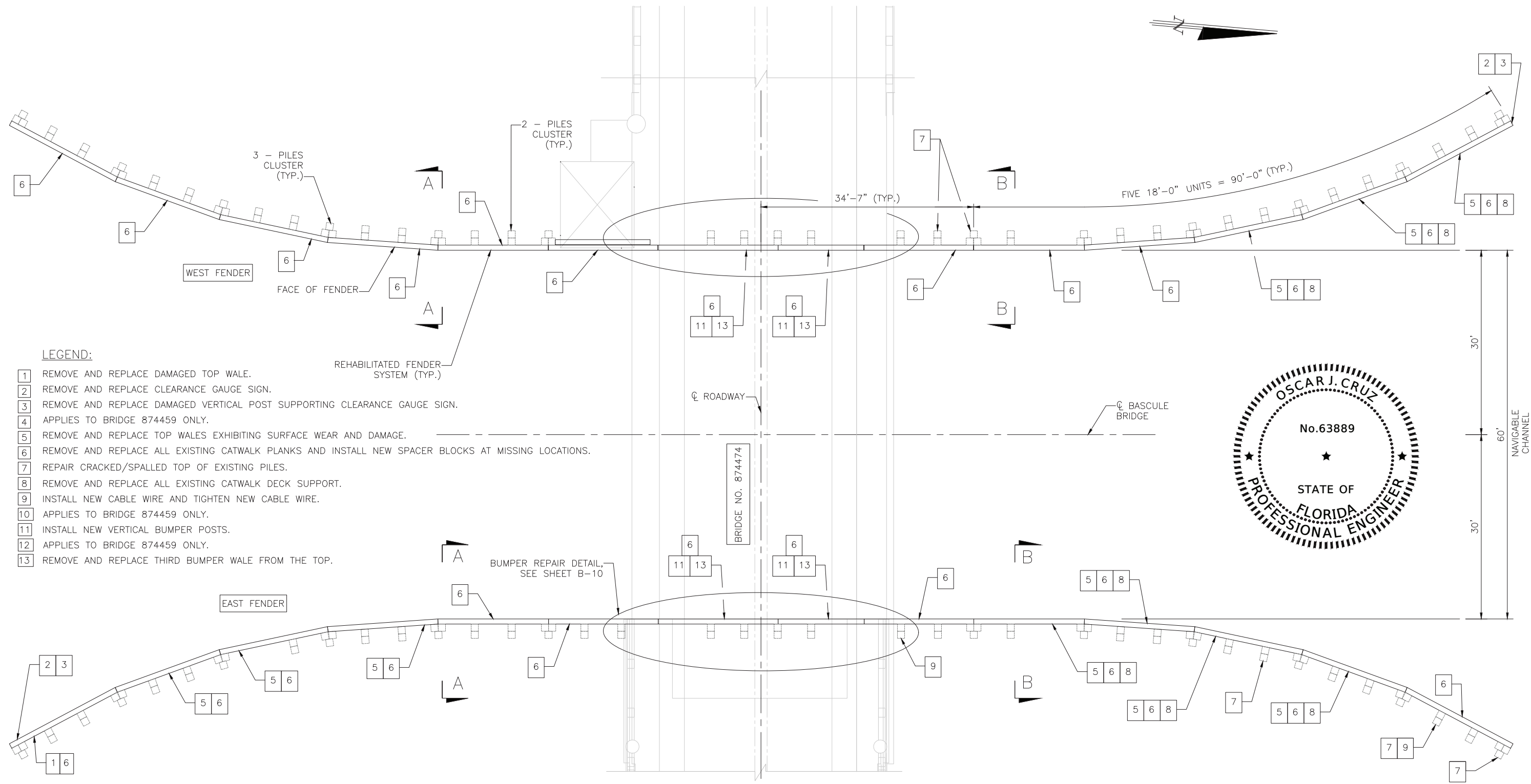
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DESIGNED BY: JAC	06/22/2020	DRAWN BY: ML	08/25/2020
CHECKED BY: OC	11/05/2020	CHECKED BY: OC	11/05/2020

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B-07

PLAN AND ELEVATION
 BRIDGE 874474

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LEGEND:

- 1 REMOVE AND REPLACE DAMAGED TOP WALE.
- 2 REMOVE AND REPLACE CLEARANCE GAUGE SIGN.
- 3 REMOVE AND REPLACE DAMAGED VERTICAL POST SUPPORTING CLEARANCE GAUGE SIGN.
- 4 APPLIES TO BRIDGE 874459 ONLY.
- 5 REMOVE AND REPLACE TOP WALES EXHIBITING SURFACE WEAR AND DAMAGE.
- 6 REMOVE AND REPLACE ALL EXISTING CATWALK PLANKS AND INSTALL NEW SPACER BLOCKS AT MISSING LOCATIONS.
- 7 REPAIR CRACKED/SPALLED TOP OF EXISTING PILES.
- 8 REMOVE AND REPLACE ALL EXISTING CATWALK DECK SUPPORT.
- 9 INSTALL NEW CABLE WIRE AND TIGHTEN NEW CABLE WIRE.
- 10 APPLIES TO BRIDGE 874459 ONLY.
- 11 INSTALL NEW VERTICAL BUMPER POSTS.
- 12 APPLIES TO BRIDGE 874459 ONLY.
- 13 REMOVE AND REPLACE THIRD BUMPER WALE FROM THE TOP.

NOTES:

- 1. ALL ELEMENTS SHOWN ON THIS SHEET ARE EXISTING UNLESS OTHERWISE NOTED, AND ARE BASED ON INFORMATION OBTAINED FROM EXISTING DRAWINGS AND WITH LIMITED FIELD INVESTIGATION.
- 2. FOR SECTION A-A AND B-B SEE SHEET B-09.
- 3. CATWALK PLANKS AND HANDRAIL NOT SHOWN FOR CLARITY.
- 4. FOR LOCATION OF FLOATING TURBIDITY BARRIER, SEE SHEET B-07.

PLAN
 (EAST BRIDGE)

BRIDGE NO. 874474

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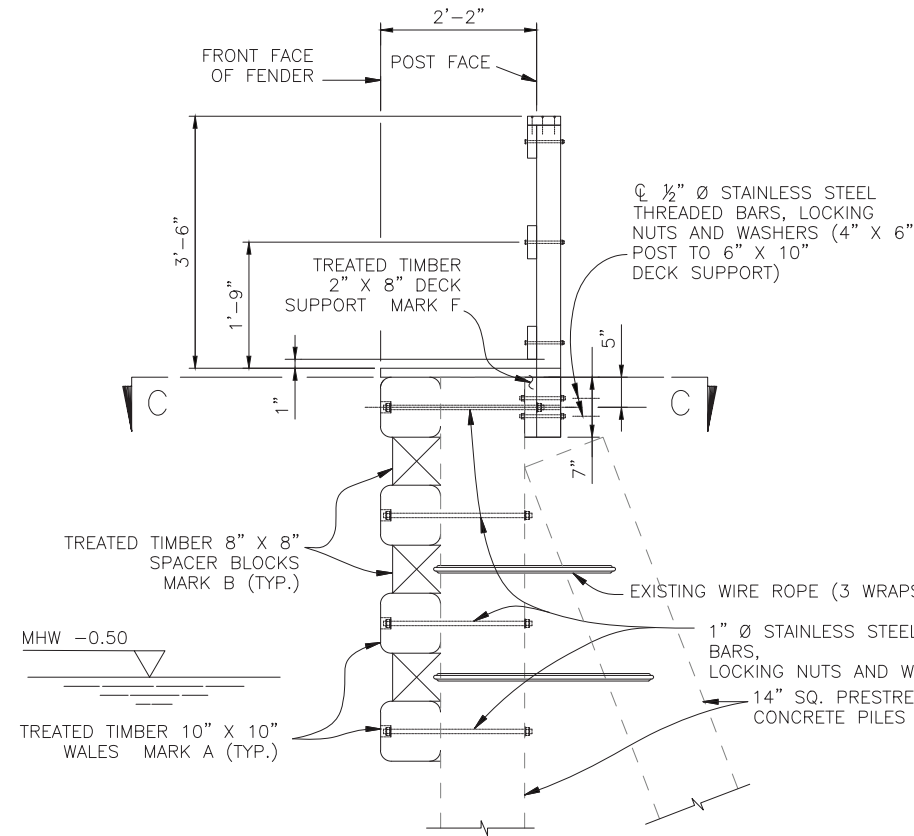


CHROME ENGINEERING, INC.
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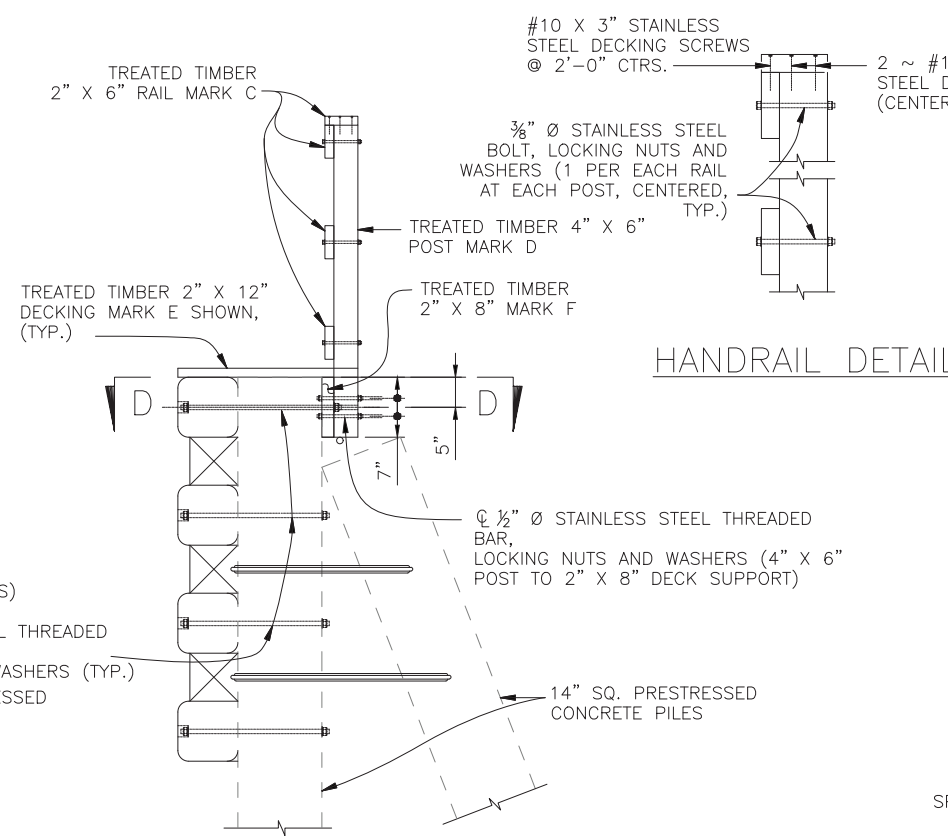
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CHECKED BY: OC	11/05/2020	CHECKED BY: OC	11/05/2020
SUPERVISED BY:			

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B-08
 FENDER SYSTEM PLAN
 VIEW BRIDGE 874474

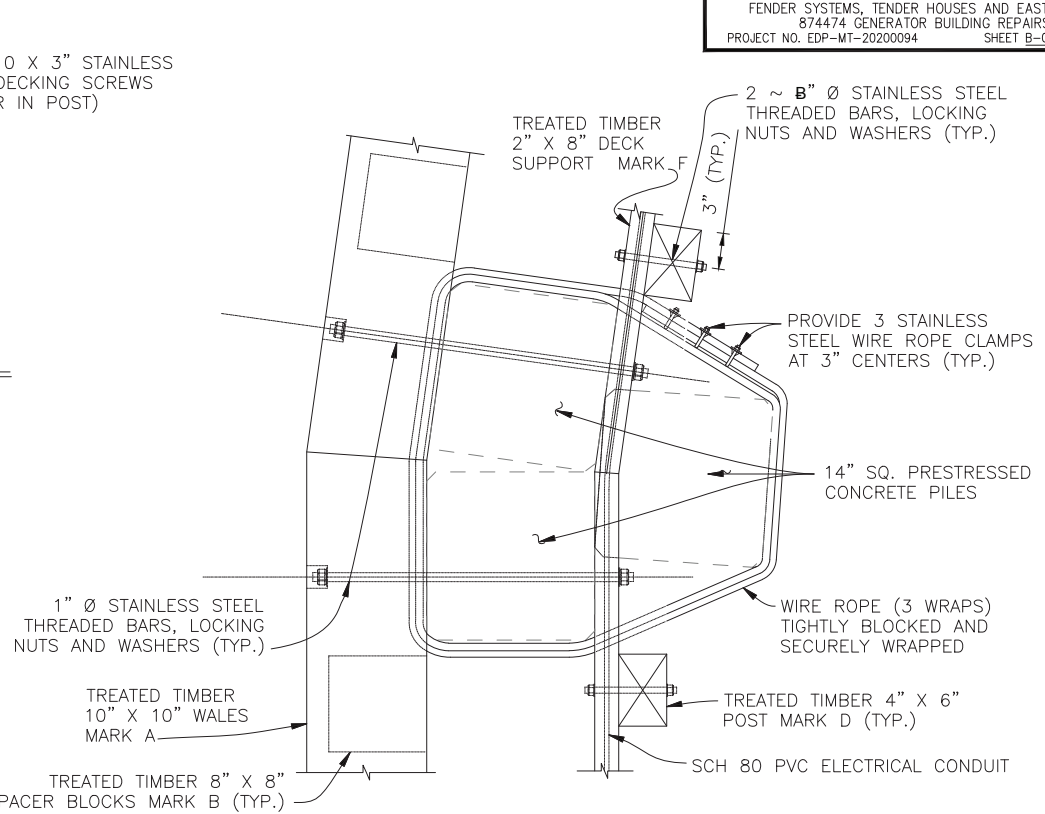


SECTION A-A

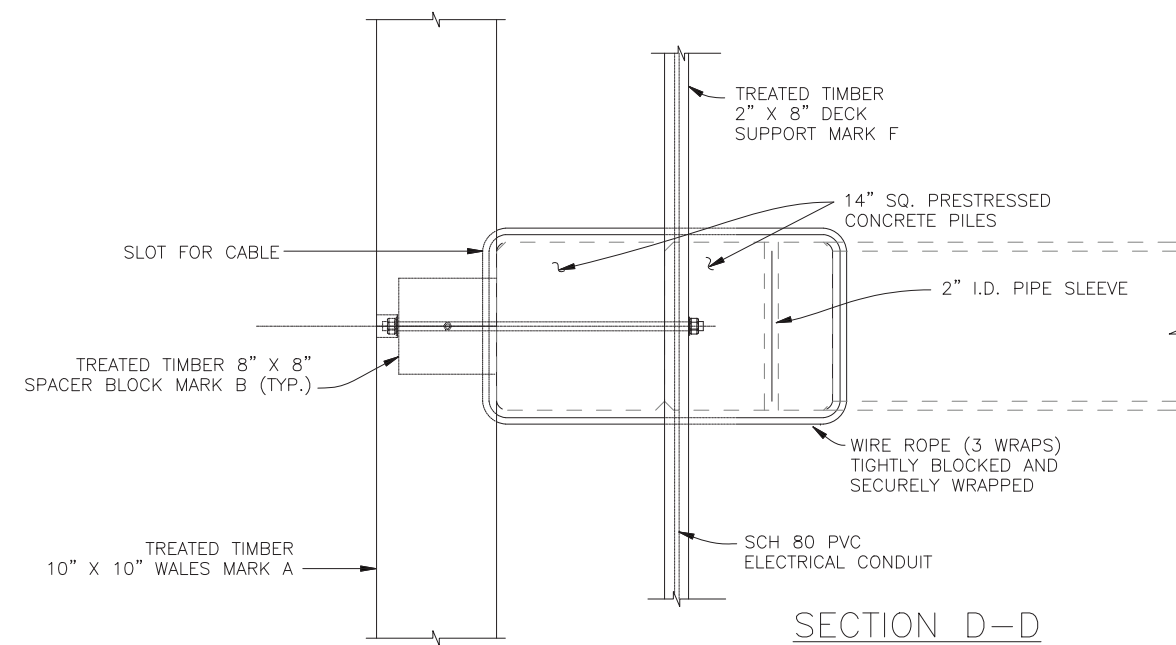


HANDRAIL DETAIL

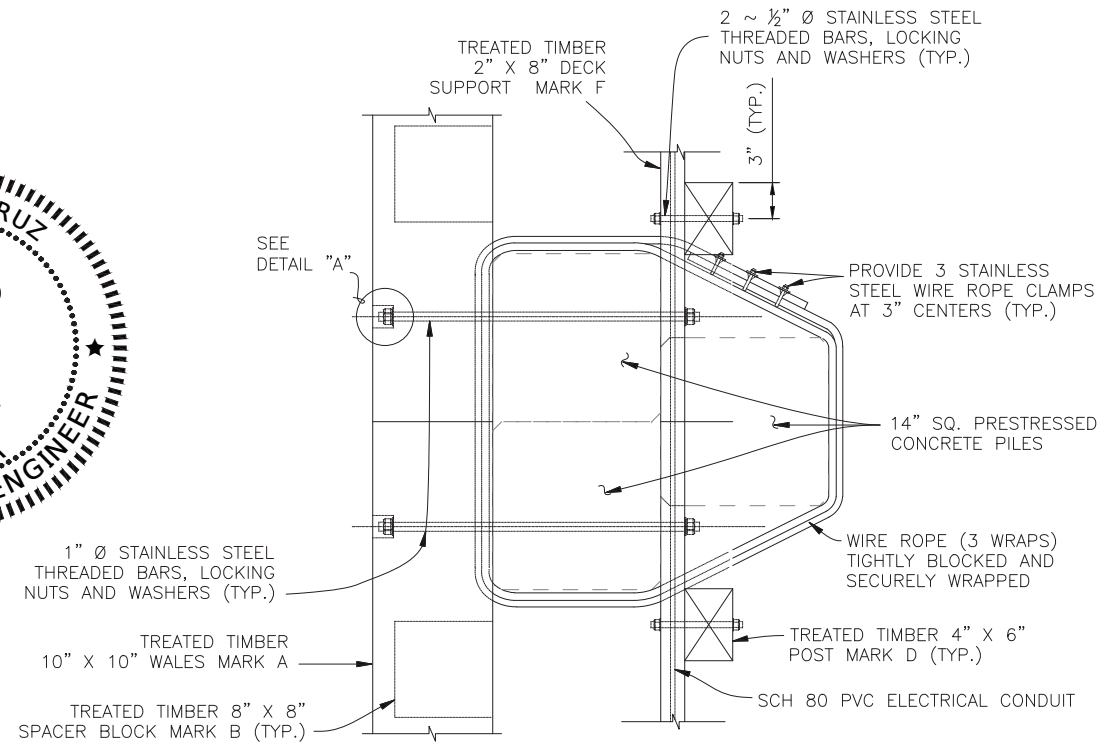
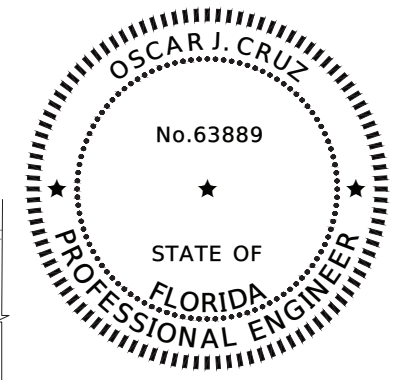
CROSS REFERENCES:
 FOR LOCATION OF SECTIONS
 A-A AND B-B SEE B-06 AND B-08.



SECTION C-C
 (3 PILES CLUSTER)
 TYPICAL FLARED SECTION



SECTION D-D
 (2 PILES CLUSTER)
 TYPICAL AT INTERMEDIATE PILES



SECTION C-C
 (3 PILES CLUSTER)
 TYPICAL STRAIGHT SECTION

BRIDGE NO. 874459, 874474

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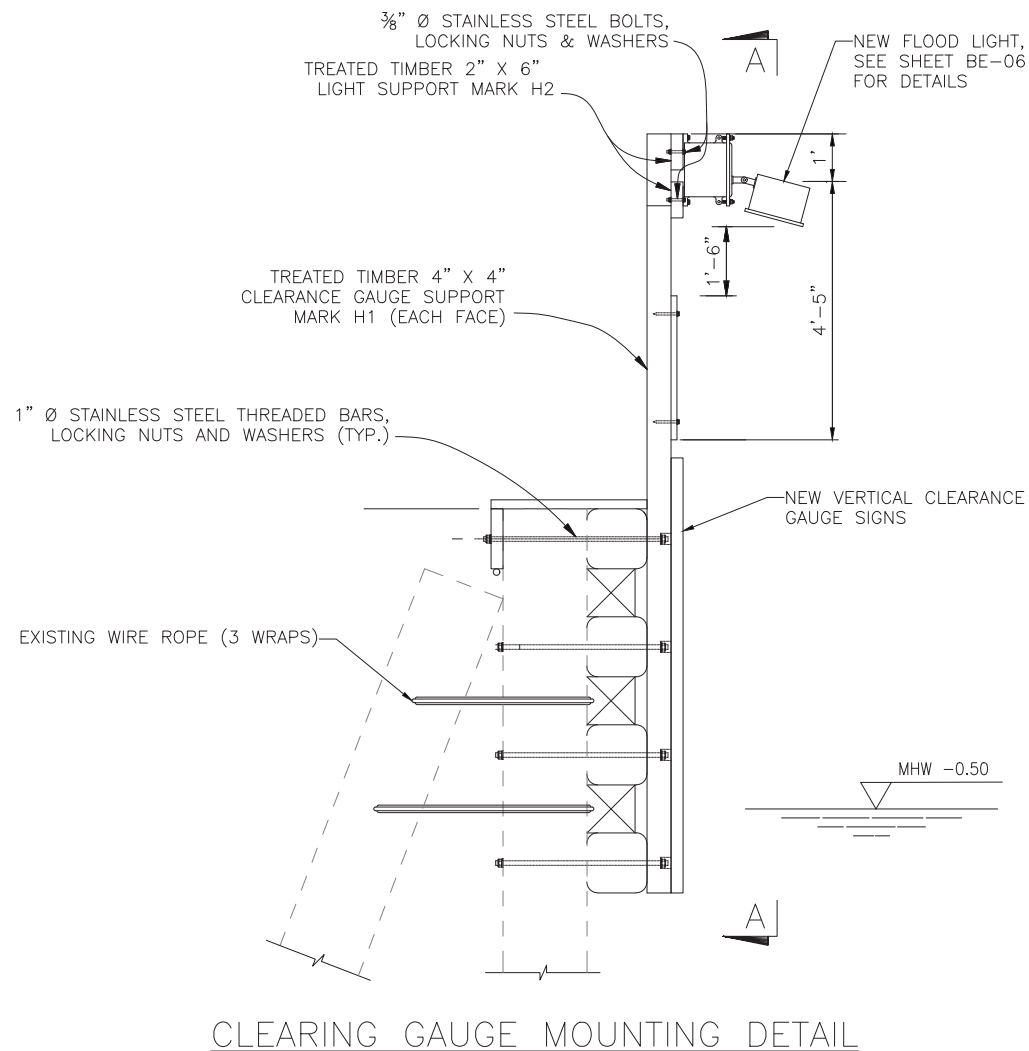
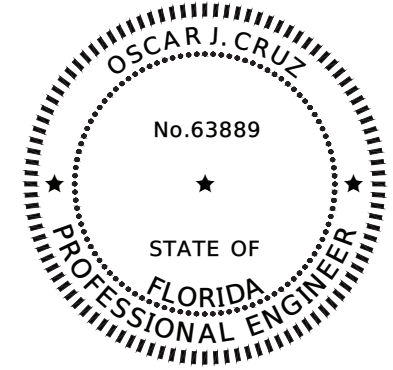
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

CHROME ENGINEERING, INC.
 16650 N. KENDALL DR., SUITE 205
 MIAMI FL, 33196
 (305) 432-6826
 OSCAR J. CRUZ, P.E. LICENSE # 63889

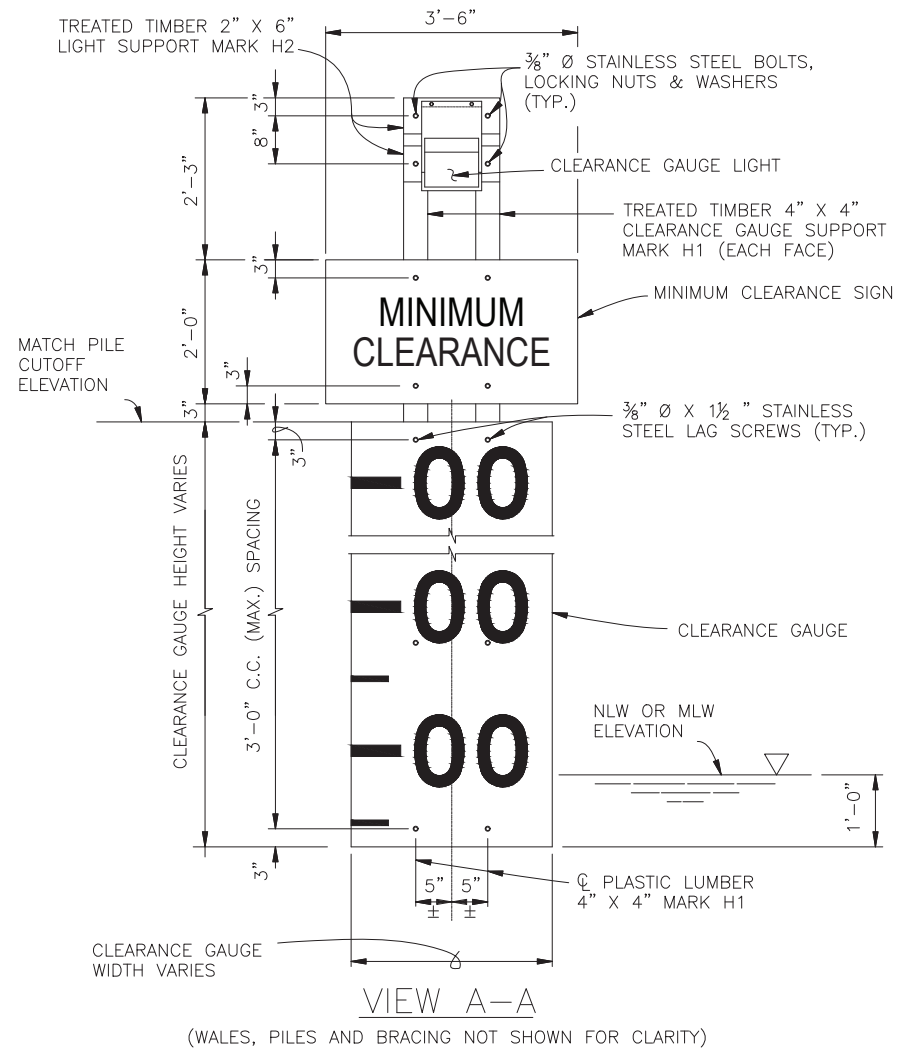
NAME	DATE	NAME	DATE
DESIGNED BY: JAC	06/22/2020	DRAWN BY: ML	08/25/2020
CHECKED BY: OC	11/05/2020	CHECKED BY: OC	11/05/2020

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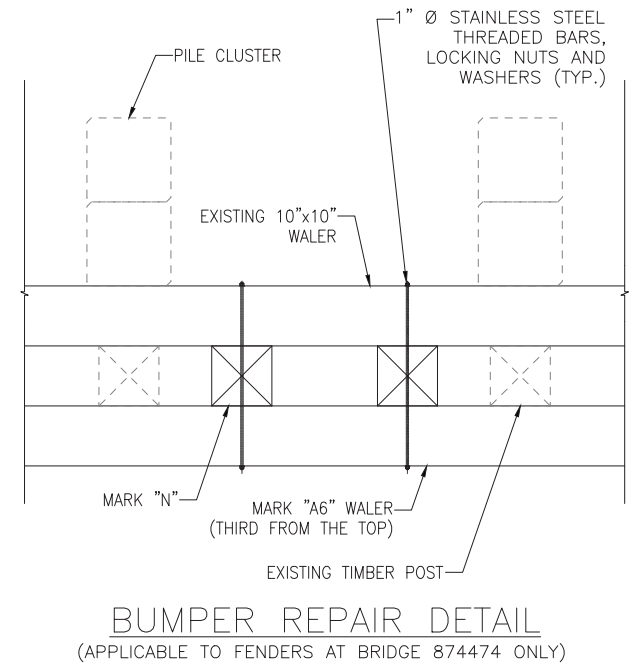
B-09
 FENDER SYSTEM DETAILS 1 OF 2



CLEARING GAUGE MOUNTING DETAIL



VIEW A-A
 (WALES, PILES AND BRACING NOT SHOWN FOR CLARITY)



BUMPER REPAIR DETAIL
 (APPLICABLE TO FENDERS AT BRIDGE 874474 ONLY)

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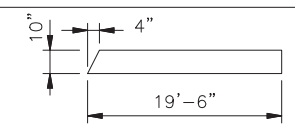
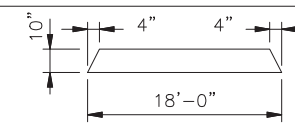
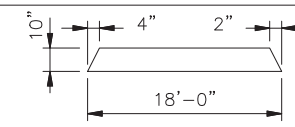
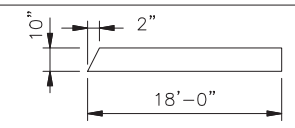
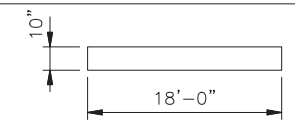
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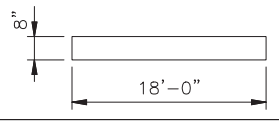
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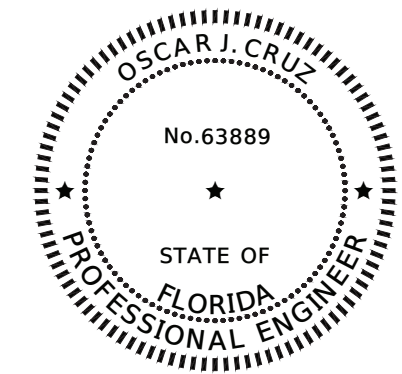
FENDER SYSTEM
 DETAILS 2 OF 2

BRIDGE NO. 874459, 874474

STRUCTURAL TREATED TIMBER BILL OF MATERIALS					
MARK	SIZE (NOMINAL)	DIMENSIONS	BOARD FT. PER EACH	NO. REQD.	QUANTITY (MB)
A1	10" X 10" TREATED TIMBER		162.5	4	0.650
A2	10" X 10" TREATED TIMBER		150.0	6	0.900
A3	10" X 10" TREATED TIMBER		150.0	4	0.600
A4	10" X 10" TREATED TIMBER		150.0	2	0.300
A5	10" X 10" TREATED TIMBER		150.0	1	0.150

* ALL TREATED TIMBER DIMENSIONS AND QUANTITIES SHOWN ARE BASED ON THE NOMINAL LUMBER DIMENSIONS AND MAY VARY DEPENDING ON ACTUAL TIMBER DIMENSION.
 ** QUANTITY SHOWN ASSUMES 10% REPLACEMENT OF ORIGINAL FENDER QUANTITY FOR BLOCK SPACERS MARK B1 AND B2.

TREATED TIMBER BILL OF MATERIALS					
MARK	SIZE (NOMINAL)	DIMENSIONS	BOARD FT. PER EACH	NO. REQD.	QUANTITY (MB)
B1	8" X 8" TREATED TIMBER	1'-2" (STRAIGHT)	6.2	40	0.249
B2	8" X 8" TREATED TIMBER	1'-10" (STRAIGHT) (TRIM & MITER ENDS AS REQUIRED)	9.8	3	0.029
C	2" X 6" TREATED TIMBER	18'-0" (STRAIGHT)	18.0	112	2.016
D	4" X 6" TREATED TIMBER	4'-4" (STRAIGHT) (HANDRAIL POST)	9.0	84	0.756
E	2" X 12" TREATED TIMBER	2'-2" (STRAIGHT)	4.3	438	1.898
F	2" X 8" TREATED TIMBER		24.0	14	0.336
H1	4" X 4" TREATED TIMBER	14'-10" (STRAIGHT)	19.8	4	0.079
H2	2" X 6" TREATED TIMBER	1'-2" (STRAIGHT)	1.2	4	0.005



BRIDGE NO. 874459

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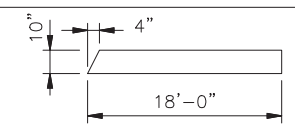
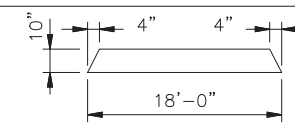
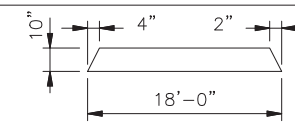
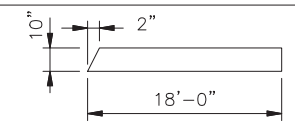
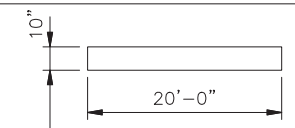
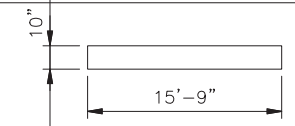
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

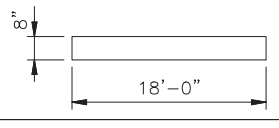


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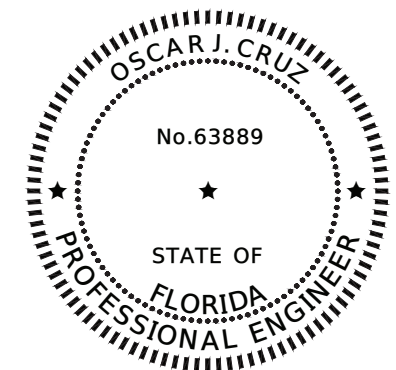
DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
JAC	JAC	06/22/2020	ML	ML	08/25/2020
CHECKED BY	OC	11/05/2020	CHECKED BY	OC	11/05/2020

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STRUCTURAL TREATED TIMBER BILL OF MATERIALS					
MARK	SIZE (NOMINAL)	DIMENSIONS	BOARD FT. PER EACH	NO. REQD.	QUANTITY (MB)
A1	10" X 10" TREATED TIMBER		150.0	2	0.300
A2	10" X 10" TREATED TIMBER		150.0	6	0.900
A3	10" X 10" TREATED TIMBER		150.0	2	0.300
A4	10" X 10" TREATED TIMBER		150.0	1	0.150
A5	10" X 10" TREATED TIMBER		166.7	0	0.000
A6	10" X 10" TREATED TIMBER		131.3	4	0.525

TREATED TIMBER BILL OF MATERIALS					
MARK	SIZE (NOMINAL)	DIMENSIONS	BOARD FT. PER EACH	NO. REQD.	QUANTITY (MB)
B1	8" X 8" TREATED TIMBER	1'-2" (STRAIGHT)	6.2	37	0.230
B2	8" X 8" TREATED TIMBER	1'-10" (STRAIGHT) (TRIM & MITER ENDS AS REQUIRED)	9.8	3	0.029
C	2" X 6" TREATED TIMBER	18'-0" (STRAIGHT)	18.0	112	2.016
D	4" X 6" TREATED TIMBER	4'-4" (STRAIGHT) (HANDRAIL POST)	9.0	84	0.756
E	2" X 12" TREATED TIMBER	2'-2" (STRAIGHT)	4.3	496	2.149
F	2" X 8" TREATED TIMBER		24.0	7	0.168
H1	4" X 4" TREATED TIMBER	14'-10" (STRAIGHT)	19.8	4	0.079
H2	2" X 6" TREATED TIMBER	1'-2" (STRAIGHT)	1.2	4	0.005
N	10" X 10" TREATED TIMBER	4'-6" (STRAIGHT - VERTICAL) (BUMPER REPAIR DETAIL)	37.5	32	1.200

* ALL TREATED TIMBER DIMENSIONS AND QUANTITIES SHOWN ARE BASED ON THE NOMINAL LUMBER DIMENSIONS AND MAY VARY DEPENDING ON ACTUAL TIMBER DIMENSION.
 ** QUANTITY SHOWN ASSUMES 10% REPLACEMENT OF ORIGINAL FENDER QUANTITY FOR BLOCK SPACERS MARK B1 AND B2.



BRIDGE NO. 874474

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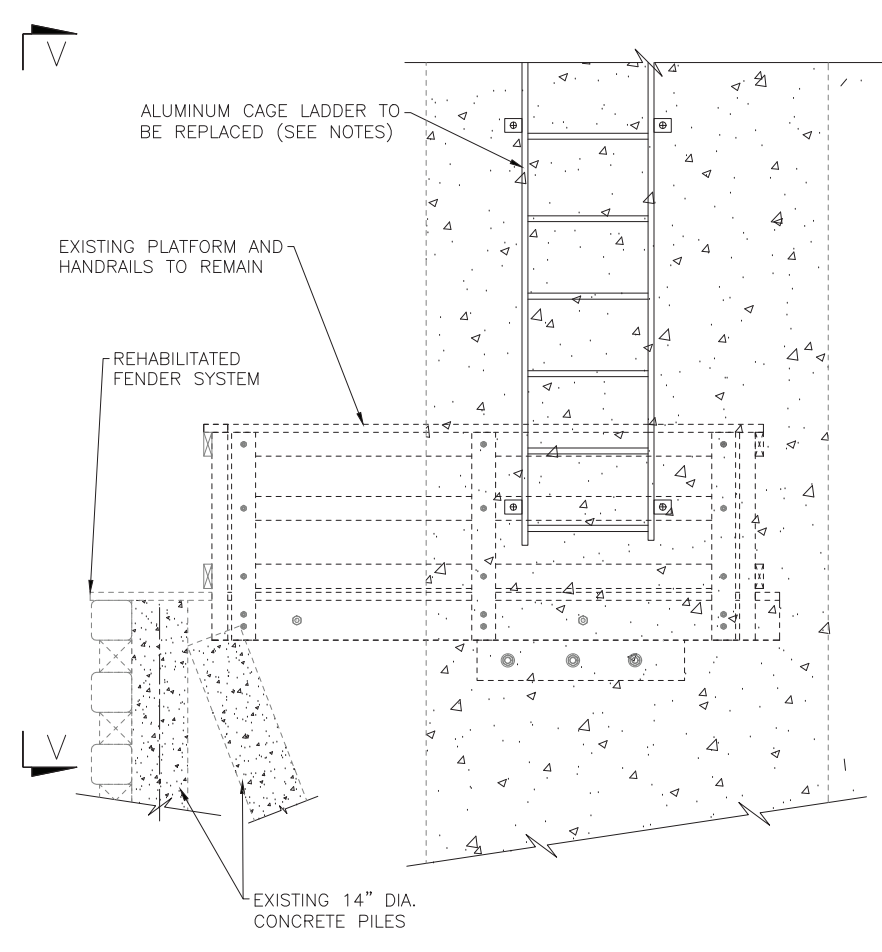
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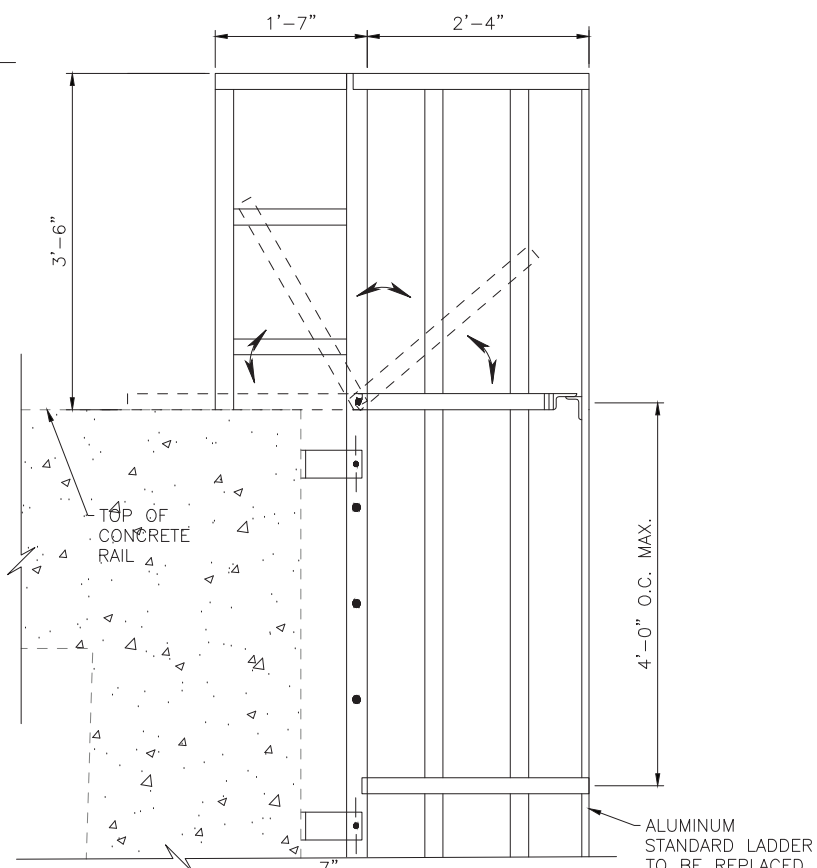
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B-12

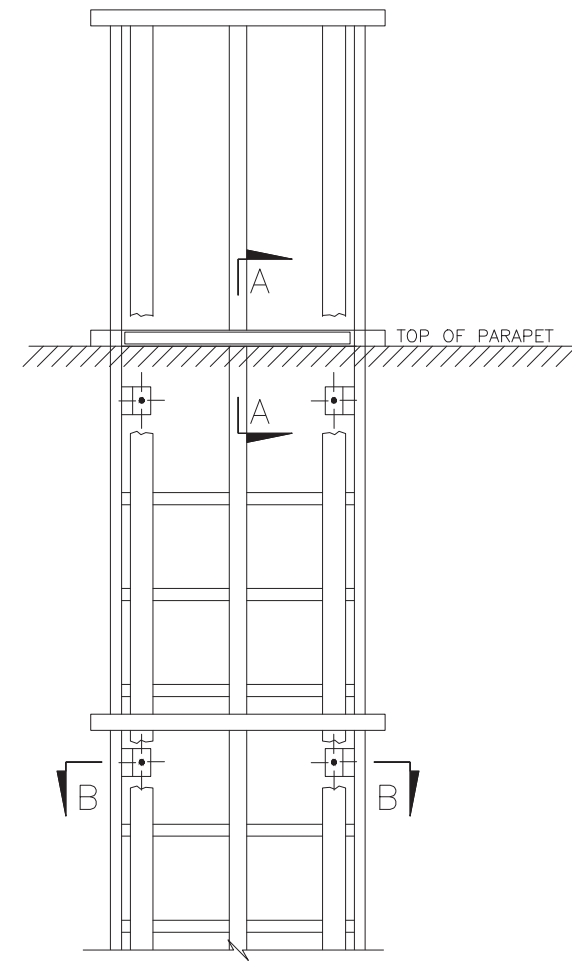
STRUCTURAL TREATED TIMBER BILL OF MATERIALS
 2 OF 2



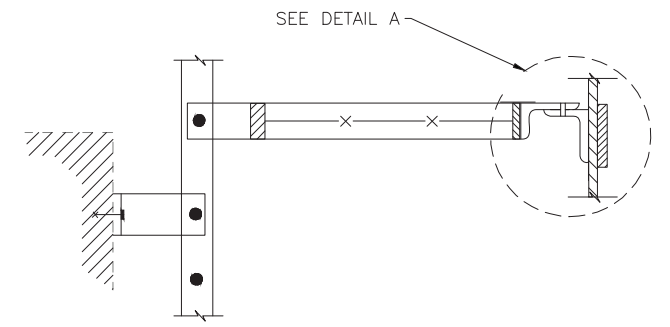
ELEVATION VIEW



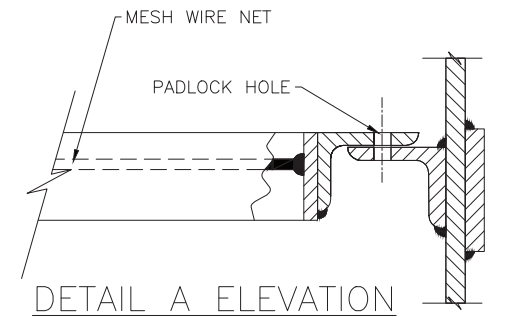
VIEW V-V



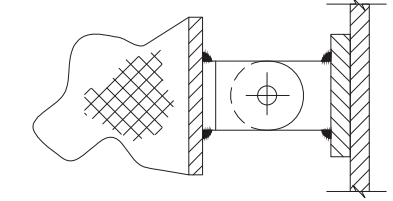
CROSS REFERENCE
 SEE VIEW V LOCATION ON SHEET B-13.



SECTION A-A

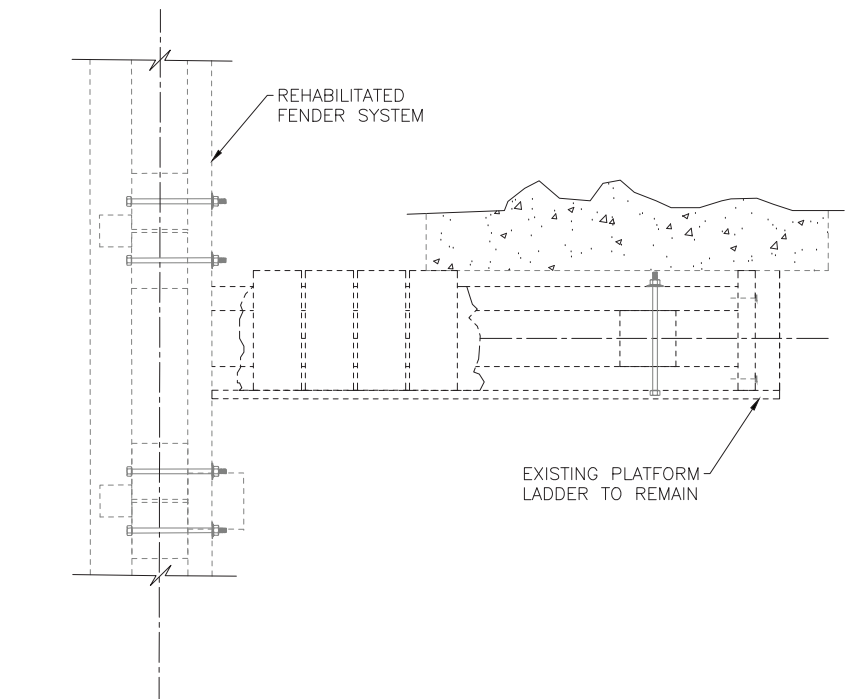


DETAIL A ELEVATION

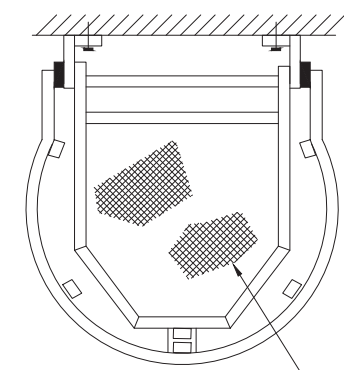
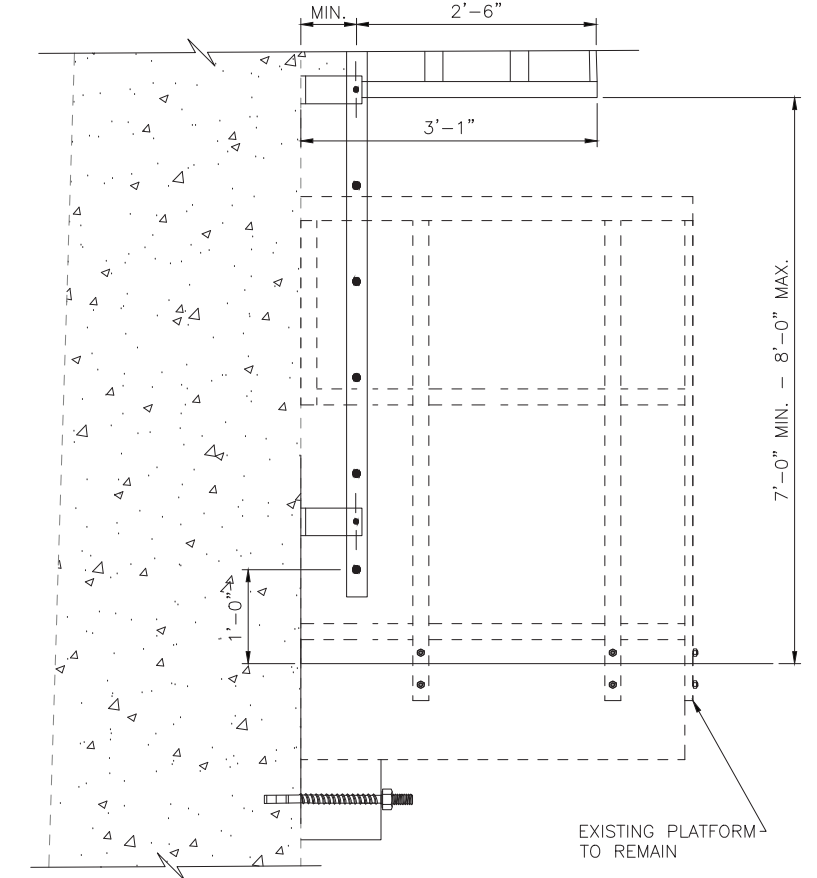


DETAIL A PLAN VIEW

PIVOT DOOR LOCK



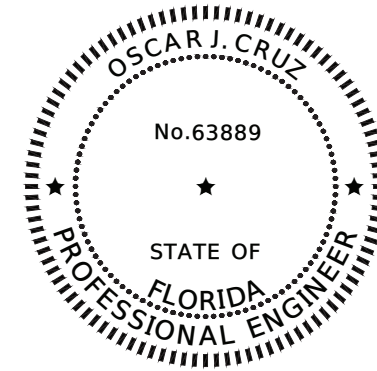
PLAN VIEW



SECTION B-B

NOTES:

1. CONTRACTOR SHALL REMOVE AND REPLACE WITH A CAGE LADDER AT THE EXISTING DAMAGED LADDER LOCATED ON THE NW AND SE OF BRIDGES 874459 AND 874474.
2. CONTRACTOR SHALL EXERCISE EXTREME CAUTION NOT TO DAMAGE THE EXISTING LADDER PLATFORMS WHILE REMOVING THE DAMAGED LADDER. ANY DAMAGE CAUSED TO THE EXISTING PLATFORM AND HANDRAILS SHALL BE REPAIRED BY THE CONTRACTOR'S EXPENSES.
3. EXISTING PLATFORM SHOWN IS FOR BRIDGE 874459 ONLY.
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS SIGNED & SEALED BY A FLORIDA LICENSED ENGINEER FOR THE NEW ALUMINUM CAGE LADDER INCLUDING CONNECTIONS WITH STAINLESS STEEL BOLTS TO EXISTING CONCRETE TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. THE REAL FIELD DIMENSIONS SHALL BE INDICATED WITH AN (*) ASTERISK IN THE SHOP DRAWINGS. ENSURE THAT LADDER DIMENSIONS ARE OSHA APPROVED.



BRIDGE NO. 874459, 874474

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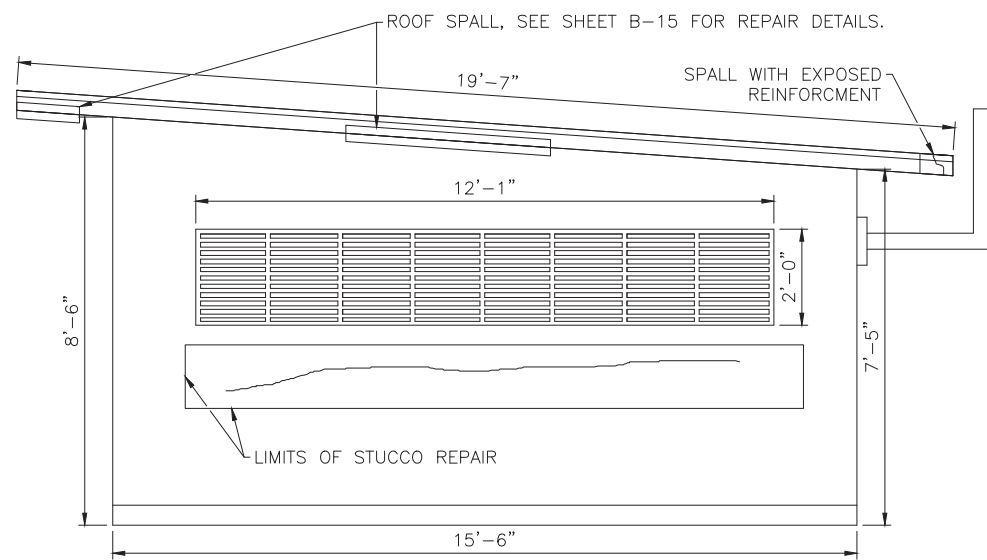
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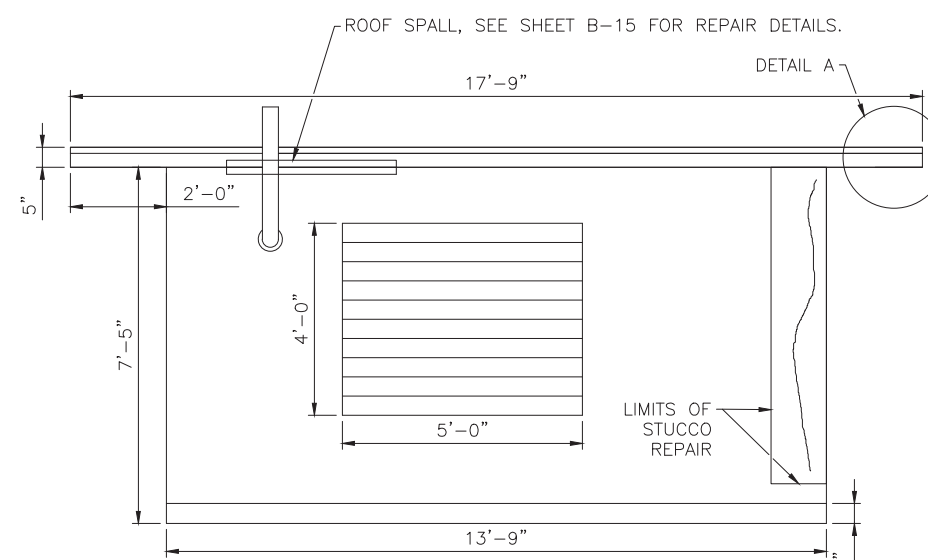
NAME	DATE	NAME	DATE
DESIGNED BY: JAC	06/22/2020	DRAWN BY: ML	08/25/2020
CHECKED BY: OC	11/05/2020	CHECKED BY: OC	11/05/2020

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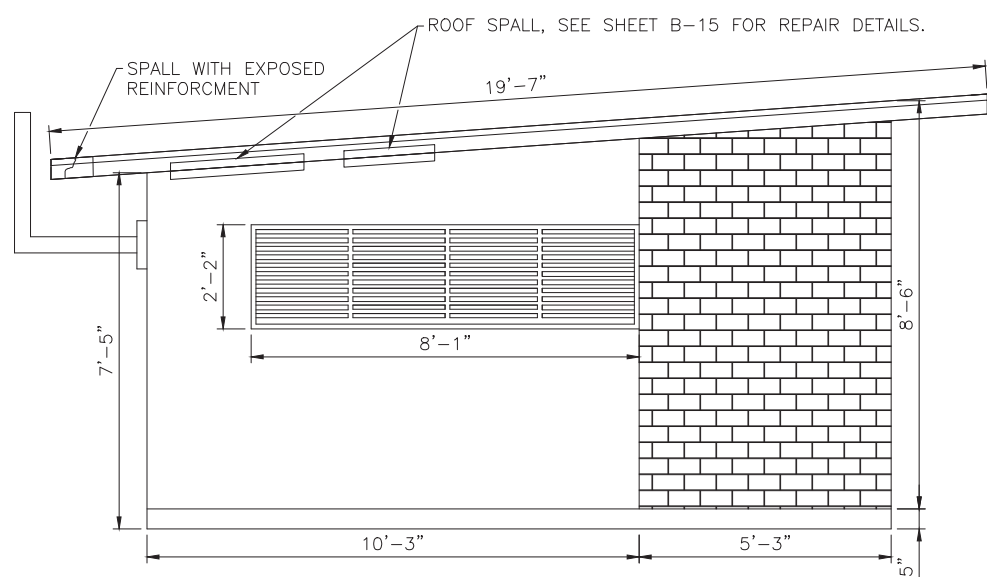
B-13 LADDER AND PLATFORM DETAILS



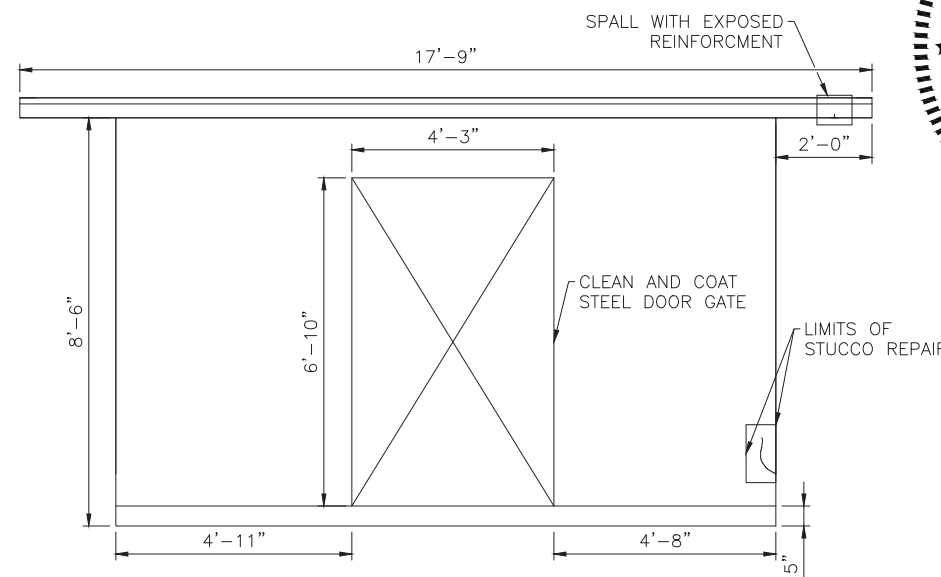
SOUTH ELEVATION



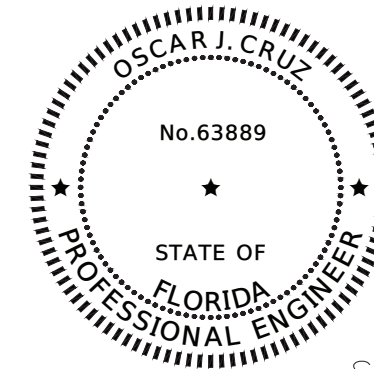
EAST ELEVATION



NORTH ELEVATION



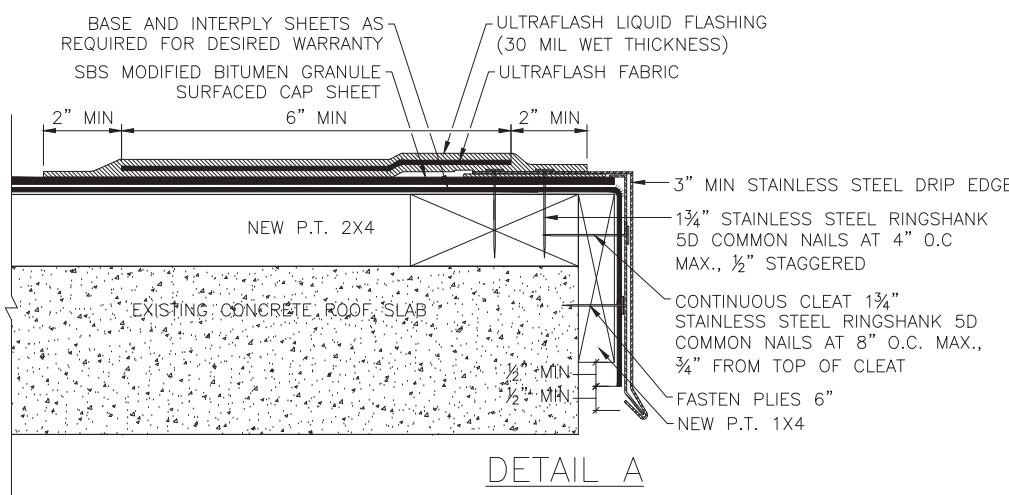
WEST ELEVATION



SPALL DAMAGE EXHIBIT
(NE CORNER)



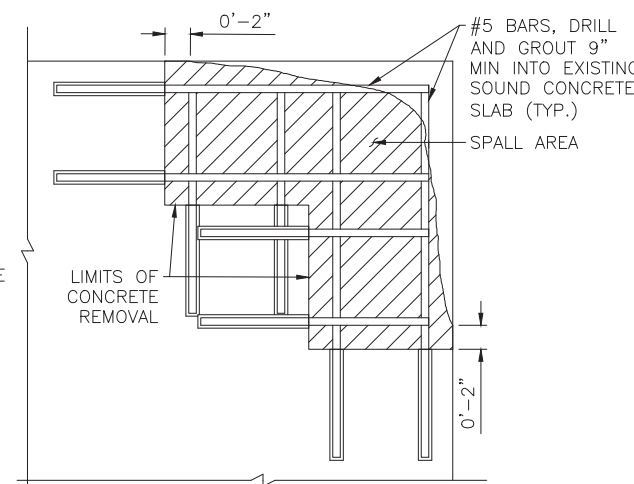
STUCCO DAMAGE EXHIBIT
(NE CORNER)



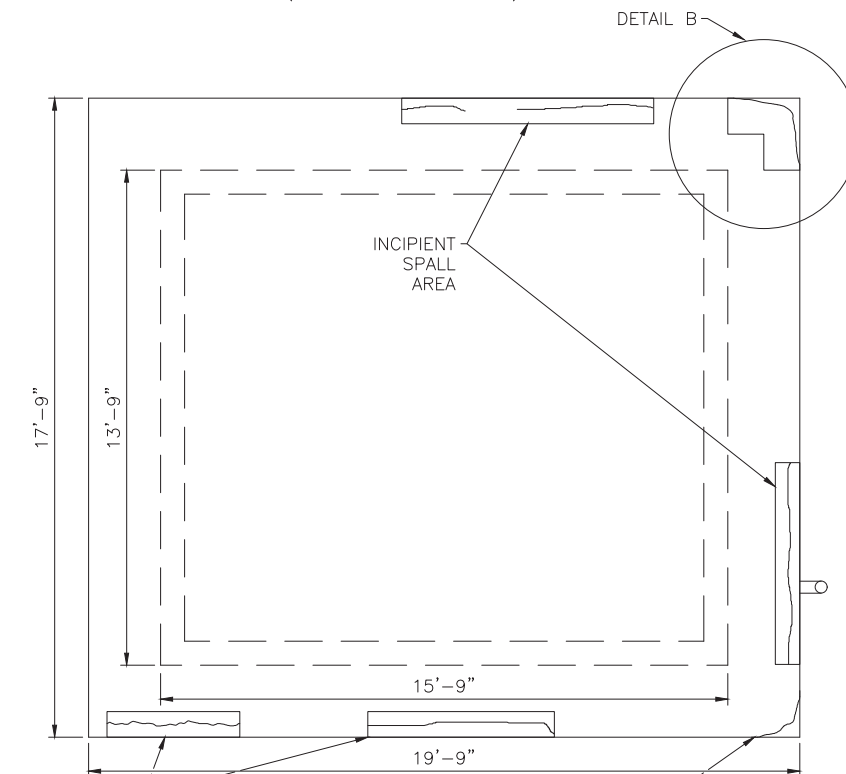
DETAIL A

NOTES:

1. NEW "MODIFIED BITUMEN ROOF SYSTEM OVER CONCRETE DECK" NOA 16-0202.10 OR A/E APPROVED EQUAL.
2. WOOD NAILERS MUST BE INSTALLED WITH SUITABLE FASTENERS TO MEET APPLICABLE BUILDING CODES (200 LBS PER LINEAR FOOT MIN IN ANY GIVEN DIRECTION).
3. GRANULES MUST BE EMBEDDED WHEN THERMALLY FUSING GRANULE SURFACED CAP SHEET.



DETAIL B
(NE CORNER SHOWN, SE CORNER SIMILAR)



PLAN VIEW

BRIDGE NO. 874474

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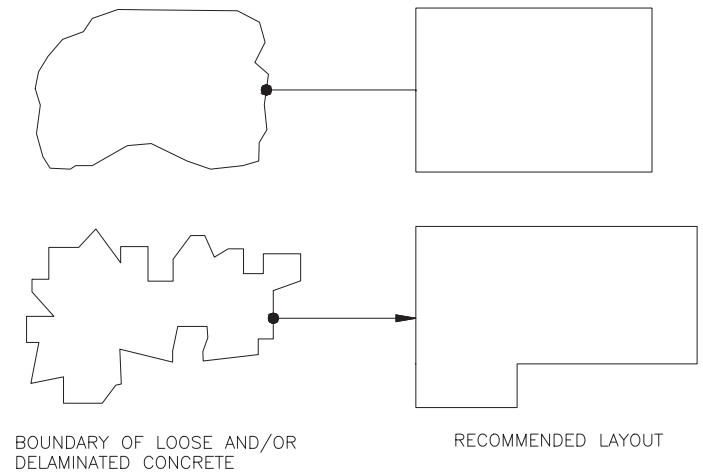
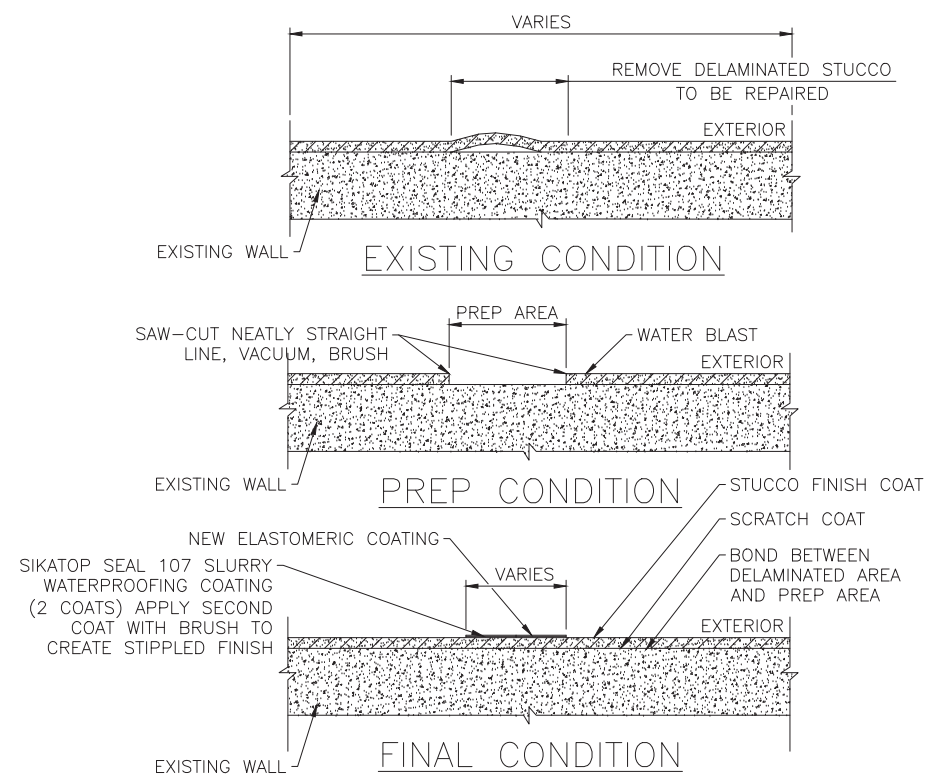
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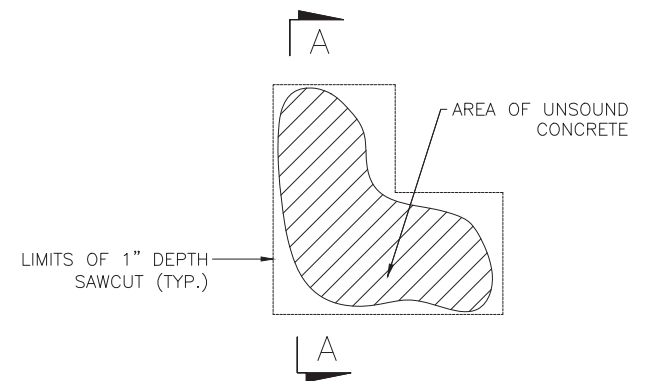
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B-14

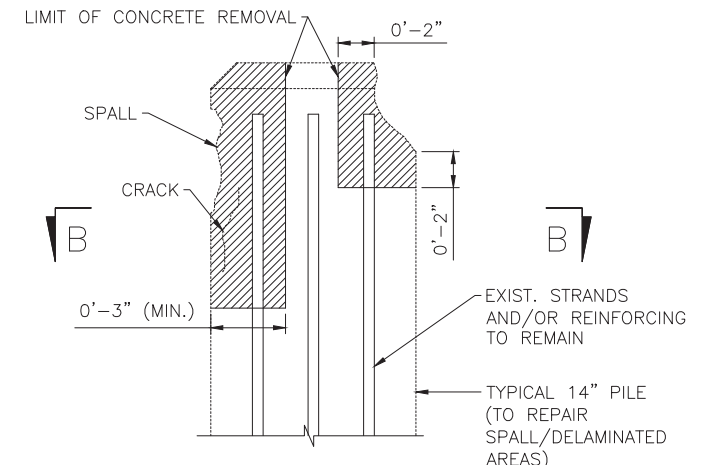
GENERATOR BUILDING
 REPAIR DETAILS



TYPICAL SPALL/DELAMINATION REPAIR CONFIGURATIONS

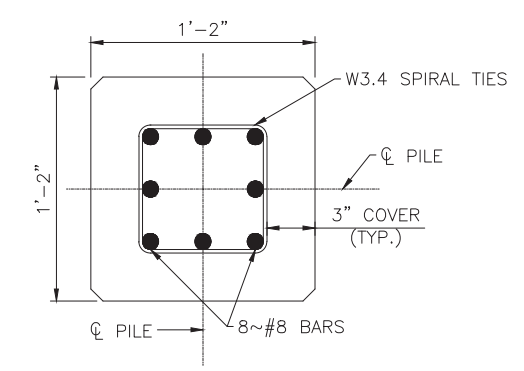


PARTIAL DEPTH REPAIR PLAN



SPALL CONCRETE PILE REPAIR DETAIL

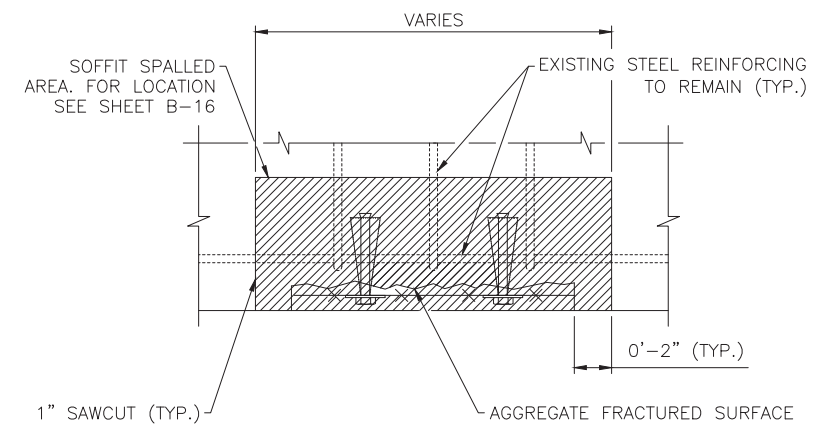
(REPAIR SPALL/DELAMINATED AREAS)



SECTION B-B

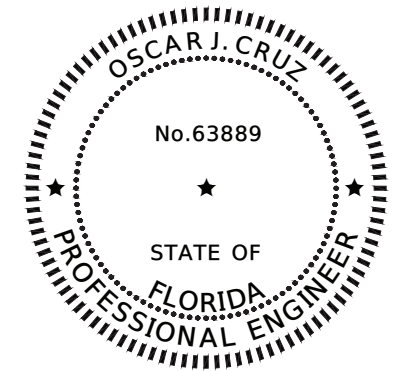
STUCCO REPAIR NOTES PROCEDURE:

- REMOVE EXISTING CRACKED AND LOOSE STUCCO INTO THE AREA BY 2" WHERE THE STUCCO IS SOLIDLY ADHERED.
 - CALL FOR ENGINEER'S INSPECTION IF BLOCK OR CONCRETE UNDER STUCCO IS CRACKED OR SPALLING REPAIR IS NEEDED.
 - BLOCK CRACKS ARE TO BE REPAIRED WITH SIKADUR 32, SIKAQUICK VOH, OR APPROVED EQUAL. IF WALL SURFACE IS BROKEN, CLEAN WALL OF LOOSE MATERIALS TO PROVIDE SOUND CONTACT FOR REPAIR PRODUCT. IF HAIRLINE CRACKS ARE PRESENT REPAIR AS PER SIKA 223 OR APPROVED EQUAL FOLLOWING THE MANUFACTURER'S RECOMMENDATIONS.
 - IF WALL CRACKS ARE PRESENT, COVER THE LENGTH OF CRACKS IN GALVANIZED MESH LATH USING 1/4"x2" LONG TAPCONS @ 6" O.C.
 - PRESSURE WASH EXISTING EXTERIOR WALLS TO RECEIVE NEW STUCCO REPAIRS AS SHOWN IN SHEET B-14.
 - REPLACE ALL EXISTING CAULK AROUND ALL EXTERIOR EXISTING DOORS AND WINDOWS WITH SIKAFLEX 15 LM OR EQUALLY APPROVED. CLEAN SURFACE AND APPLY SEALANT IN UNIFORM MANNER TO GIVE A CLEAN FINISH. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
 - CLEAN SURFACES OF ALL DIRT, DUST OR OTHER CONTAMINANTS THAT AFFECT ADHESION FOR PAINT OR APPEARANCE OF PAINT.
 - PAINT ALL EXTERIOR WALLS WITH ELASTOMERIC PAINT SUCH AS BEHR PREMIUM, ELATO HERIC, SHERWIN-WILLIAMS "SHERLASTIC", OR PITTSBURGH "MANOR TIMELESS SUPER ELASTOMERIC".
 - 1ST. COAT ACRYLIC PRIMER-SEALER OR OIL-BASE TRANSITION PRIMER SEALER.
 - 2ND. COAT ELASTOMERIC WATERPROOFER.
 - 3RD. COAT ELASTOMERIC WATERPROOFER.
- A. MINIMUM THICKNESS OF DRY FILM SHALL BE 5 MILS.
 B. PAINT SHALL BE APPLIED WITH ROLLER AND BRUSH. SPRAY PAINT IS NOT ALLOWED.
 C. COLOR SELECTION TO BE CONDUCTED BY MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT.



ROOF SPALL REPAIR DETAIL

(FOR SPALL/DELAMINATION REPAIR PROCEDURE, SEE GENERAL NOTES SHEET B-4)



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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

CHROME ENGINEERING, INC.
 16650 N. KENDALL DR., SUITE 205
 MIAMI FL, 33196
 (305) 432-6826
 OSCAR J. CRUZ, P.E. LICENSE # 63889

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
JAC	JAC	06/22/2020	ML	ML	08/25/2020
CHECKED BY	OC	11/05/2020	CHECKED BY	OC	11/05/2020

MIAMI-DADE COUNTY
 TRANSPORTATION & PUBLIC WORKS DTPW
 701 NW 1ST COURT
 MIAMI, FLORIDA 33136

B-15
 REPAIR DETAILS