

DEPARTMENT OF THE ARMY

CORPS OF ENGINEERS, NEW ORLEANS DISTRICT 7400 LEAKE AVENUE NEW ORLEANS, LOUISIANA 70118

September 9, 2021

Regulatory Division
Eastern Evaluation Branch

SUBJECT: MVN 2021-00478 EMM

CPRA Post Office Box 44027 Baton Rouge, Louisiana 70815

Gentlemen:

The proposed work, to install and maintain improvements to an access road, parking area, and a boat launch, Bayou Segnette Park, in Westwego, Louisiana, Jefferson Parish, as shown on the enclosed drawings, is authorized under **Category I** of the **Programmatic General Permit**, provided that all conditions of the permit are met.

In addition, you must comply with the following conditions:

- 1. The "Standard manatee conditions for in-water activities" are enclosed.
- 2. Please be aware that our Real Estate Division has indicated that your project is located in an area over which the federal government holds real estate interest. No work shall be performed under this permit until a real estate instrument is issued by our Real Estate Division. You may contact our Real Estate Division to initiate these procedures by emailing Robert.J.Thomson@usace.army.mil.

This authorization has a blanket water quality certification from the Louisiana Department of Environmental Quality; therefore, no additional authorization from DEQ is required.

However, prior to commencing work on your project, you must obtain approvals from state and local agencies as required by law and by terms of this permit. These approvals include, but are not limited to, a permit, consistency determination or determination of "no direct or significant impact (NDSI) on coastal waters" from the Louisiana Department of Natural Resources, Office of Coastal Management.

This approval to perform work is valid for 5 years from the date of this letter. Permittee is aware that this office may re-evaluate its decision on this permit at any time the circumstances warrant.

Should you have any further questions concerning this matter, please contact Scott Kennedy of this office at (504) 862-2259.

Sincerely,

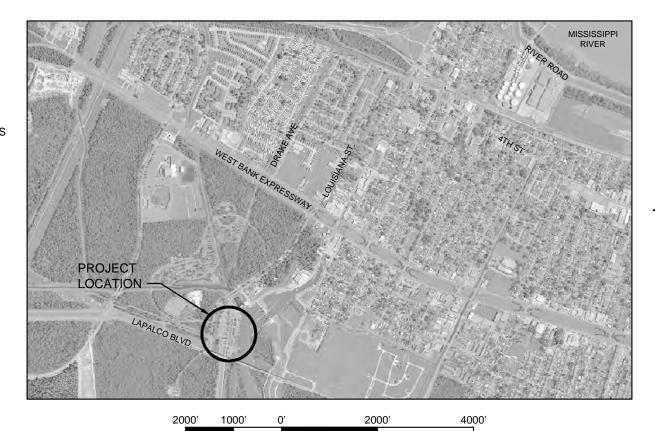
Martin S. Mayer Acting Chief, Regulatory Division

Enclosure

STATE OF LOUISIANA COASTAL PROTECTION AND RESTORATION AUTHORITY

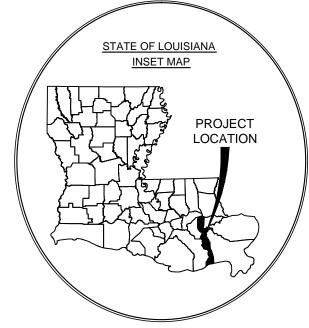
BAYOU SEGNETTE STATE PARK IMPROVEMENTS BOAT LAUNCH ENHANCEMENTS

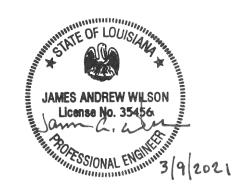
PROJECT NO. BA-0213 JEFFERSON PARISH











EXCAVATION AND FILL SUMMARY:

		<u></u>		
TYPE	CUBIC YARDS	ACRES		
EXCAVATION	235.6	0.11		
FILL	3,026.2	1.69		

FILL MATERIALS:

TYPE	CUBIC YARDS
CONCRETE	116.9
CRUSHED STONE	358.4
EXCAVATED & PLACE ON SITE	180.3
EXCAVATED & HAULED OFF SITE	55.3
HAULED IN TOPSOIL/DIRT	292.7
OTHER (ASPHALT)	2,258.2

STATE OF LOUISIANA INSET MAP						
PROJECT						
LOCATION						
	NINCHAM.	ENGINEERING, LLC	OI EADVIEW DKWV	METAIRIE, LA 70006	www.msmmengineering.com	
		4	1 02V	W W	WW	

ITTLE SHEET

DATE: MARCH, 2021

SHEET 1 OF 26

LICENSURE CLASSIFICATION REQUIREMENTS: HIGHWAY, STREET AND BRIDGE CONSTRUCTION AND HEAVY CONSTRUCTION

DESCRIPTION SHEET NO. TITLE SHEET

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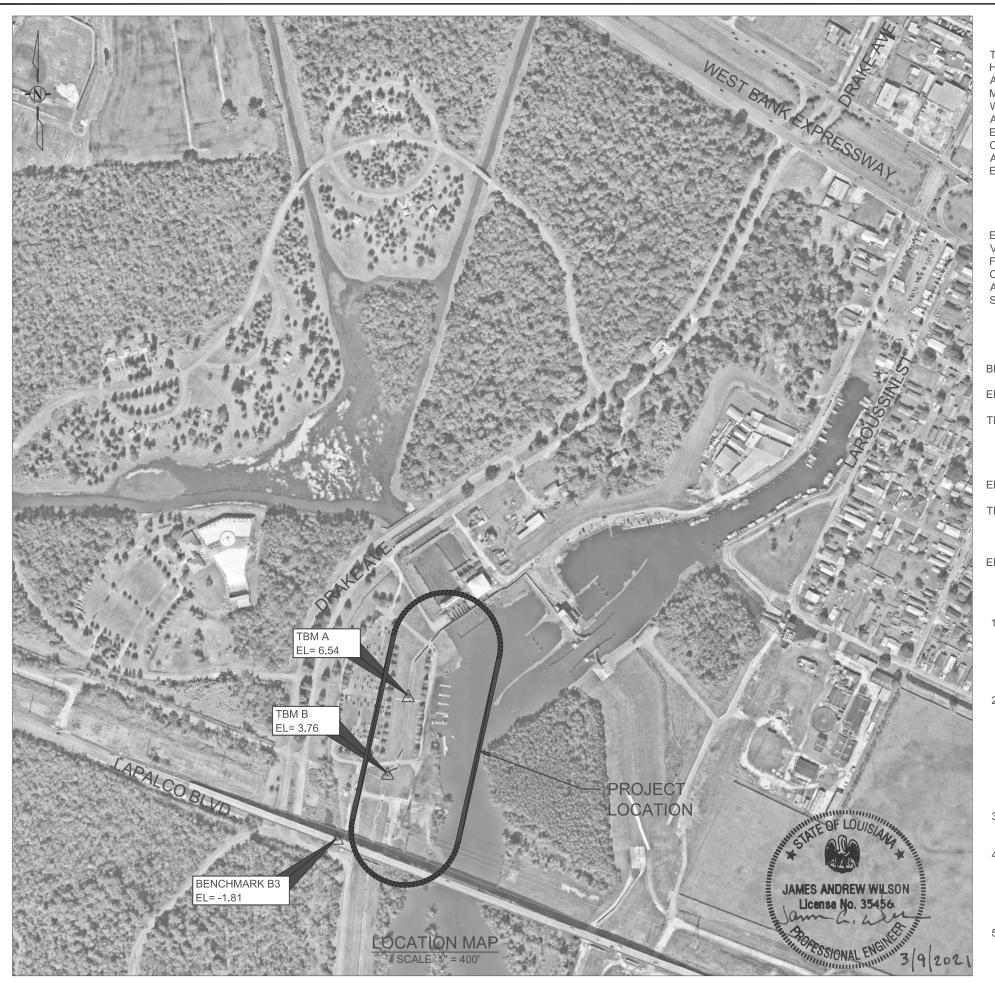
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GENERAL NOTES

THE LOCATIONS OF UNDERGROUND AND OTHER NONVISIBLE UTILITIES SHOWN HEREON HAVE BEEN DETERMINED FROM DATA EITHER FURNISHED BY THE AGENCIES CONTROLLING SUCH DATA AND/OR EXTRACTED FROM RECORDS MADE AVAILABLE TO US BY THE AGENCIES CONTROLLING SUCH RECORDS. WHERE FOUND, THE SURFACE FEATURES OF LOCATIONS ARE SHOWN. THE ACTUAL NONVISIBLE LOCATIONS MAY VARY FROM THOSE SHOWN HEREON. EACH AGENCY SHOULD BE CONTACTED RELATIVE TO THE PRECISE LOCATION OF ITS UNDERGROUND INSTALLATION PRIOR TO ANY RELIANCE UPON THE ACCURACY OF SUCH LOCATIONS SHOWN HEREON, INCLUDING PRIOR TO **EXCAVATION AND DIGGING.**

VERTICAL DATUM BASIS

ELEVATIONS SHOWN ON THIS SURVEY ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) UTILIZING GEOID 12B. THEY ARE DERIVED FROM GPS OBSERVATIONS REFERÊNCED TO THE LOUISIANA STATE UNIVERSIT CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) NETWORK IN ACCORDANCE WITH LOUISIANA R.S. 50:173.1 COVERING VERTICAL CONTROL

BENCHMARKS

BENCHMARK B3 A BRASS DISK LOCATED AT THE BASE OF THE LAPALCO BRIDGE (N: 509114.15, E: 3652713.88)

ELEVATION: -1.81' N.A.V.D. 88 GEOID 12B

TBM A CROSS CUT AT THE NORTH CORNER OF A FLAG POLE BASE WEST OF THE FLOODWALL ±13 FEET WEST OF INTERSECTION OF SIDEWALK AND FLOODWALL PAVING, ±8 FEET SOUTHWEST OF CORNER OF NEAREST FLAG POLE AND ±142 FEET WEST OF CORNER OF FLOODWALL. (N: 509707.95, E: 3653009.67)

ELEVATION: 6.54' N.A.V.D. 88 GEOID 12B

CROSS CUT AT THE CORNER OF THE FLOODWALL BASE SOUTHEAST O BS03 GATE ±31 FEET SOUTHWEST OF BACK OF CURB, ±181 FEET SOUTHEAST OF PIPE SUPPORT AND ±38 FEET EAST OF FLOODWALL BASE CORNER. (N: 509384.65, E: 3652923.62)

ELEVATION: 3.76' N.A.V.D. 88 GEOID 12B

PERMIT NOTES

- AS-BUILT DRAWINGS AND/OR PLATS SHALL HAVE WRITTEN ON THEM THE DATE OF COMPLETION OF SAID ACTIVITIES AND SHALL BE SUBMITTED TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, OFFICE OF COASTAL MANAGEMENT, P. O. BOX 44487, BATON ROUGE, LA 70804-4487 WITHIN 30 DAYS FOLLOWING PROJECT COMPLETION.
- ALL STRUCTURES BUILT UNDER THE AUTHORIZATION AND CONDITIONS OF THIS PERMIT SHALL BE REMOVED FROM THE SITE WITHIN 120 DAYS OF ABANDONMENT OF THE FACILITIES FOR THE HEREIN PERMITTED USE, OR WHEN THESE STRUCTURES FALL INTO A STATE OF DISREPAIR SUCH THAT THEY CAN NO LONGER FUNCTION AS INTENDED. THIS CONDITION DOES NOT PRECLUDE THE NECESSITY FOR REVISING THE CURRENT PERMIT OR OBTAINING A SEPARATE COASTAL USE PERMIT, SHOULD ONE BE REQUIRED, FOR SUCH REMOVAL ACTIVITIES.
- STRUCTURES MUST ALSO BE MARKED/LIGHTED IN ACCORDANCE WITH U.S. COAST GUARD REGULATIONS.
- IN ORDER TO ENSURE THE SAFETY OF ALL PARTIES, THE PERMITTEE SHALL CONTACT THE LOUISIANA ONE CALL SYSTEM (1-800-272-3020) A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION (DIGGING, DREDGING, JETTING, ETC.) OR DEMOLITION
- THE APPLICANT MUST SUBMIT FOR AND RECEIVE A LEVEE PERMIT / LETTER OF NO OBJECTION FROM THE CPRA. THE UNITED STATES ARMY CORPS OF ENGINEERS AND THE WEST JEFFERSON LEVEE DISTRICT PRIOR TO COMMENCEMENT OF THE ACTIVITY.

MSMM ENGINEERING, LLC

4508 CLEARVIEW PKWY, METAIRIE, LA 70006

TAL PROTECTION RESTORATION AND COAST

DATE: MARCH, 2021

SHEET 2 OF 26

GENERAL NOTES

- 1. CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES AND DRAINAGE FEATURES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE FAMILIAR WITH ALL EXISTING SITE CONDITIONS AND UNDERGROUND UTILITIES, PIPES, AND STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR BODILY INJURY AND/OR ANY COST INCURRED DUE TO DAMAGE OF OWNER'S PROPERTY OR SAID UTILITIES. CONTRACTOR IS RESPONSIBLE FOR CONTACTING UTILITY COMPANIES PRIOR TO ANY EXCAVATION.
- 2. THE PLANS DO NOT NECESSARILY SHOW ALL THE EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT LA-ONE CALL, PHONE 1-800-272-3020, FOR UTILITY LOCATION TO COORDINATE HIS WORK WITH THEM 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING
- 3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL OBJECTS, PIPES, CONDUITS, ETC. EXISTING ALONG THE LINE OF HIS WORK. HE SHALL BE RESPONSIBLE FOR DAMAGE TO THESE LINES RESULTING FROM HIS ACTIVITIES, AND SHALL BEAR THE FULL EXPENSE OF THEIR REPAIR WITH NO DIRECT REIMBURSEMENT FOR THE SAME FROM THE
- 4. WHEN ANY PIPE OR OTHER OBSTRUCTION IS UNEXPECTEDLY ENCOUNTERED THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE LOCALITY AND CIRCUMSTANCES. ANY CONFLICTING INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OR THE ENGINEER SHALL ASSUME THAT THE CONTRACTOR HAS INCORPORATED THE SPECIFIED ITEM. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
- 5. THE CONTRACTOR SHALL CONFINE HIS WORK LIMITS TO THE SMALLEST FEASIBLE FOOTPRINT THAT WILL ALLOW INSTALLATION OF THE WORK DESCRIBED IN THESE PLANS.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE SUBCONTRACTORS ACCOMPLISHMENT OF SCOPE OF WORK. CONTRACTOR SHALL COORDINATE CONSTRUCTION WITH OTHER TRADES WORKING ON THE SITE SIMULTANEOUSLY
- 7. SUBSTITUTION OF ANY MATERIAL SHOWN ON THE PLANS CANNOT BE MADE BY THE CONTRACTOR UNLESS APPROVED BY THE PROJECT ENGINEER.
- 8. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EXISTING DRAINAGE AND MAINTAINING SITE DRAINAGE DURING HIS CONSTRUCTION ACTIVITIES.
- 9. CONTRACTOR IS RESPONSIBLE FOR SETTING GRADES ON ALL PROPOSED CONCRETE AND ASPHALT WORK. CONTRACTOR IS RESPONSIBLE FOR POSITIVE DRAINAGE.
- 10. CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION LAYOUT BASED ON THESE PLANS.
- 11. ALL MATERIALS SHALL BE OF STANDARD, APPROVED AND FIRST GRADE QUALITY AND SHALL BE IN PRIME CONDITION WHEN INSTALLED AND ACCEPTED. ANY COMMERCIALLY PROCESSED OR PACKAGED MATERIAL SHALL BE DELIVERED TO THE SITE IN THE ORIGINAL UNOPENED PACKAGING BEARING THE MANUFACTURER'S GUARANTEED ANALYSIS.
- 12. OWNER SHALL PAY FOR SOIL TESTING AS STATED IN THE SPECIFICATIONS. THIS INCLUDES COST OF INITIAL PROCTOR OF STRUCTURAL FILL AND ALL COMPACTION TESTS.
- 13. ALL ELEVATIONS ARE IN FEET (NAVD 88 GEOID 12B).
- 14. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AND INSURING DESIGN INTENT OF DRAWINGS.
- 15. ALL SITE WORK TO MEET CPRA SPECIFICATIONS AND DETAILS. CONTRACTOR SHALL HYDROSEED ALL DISTURBED AREAS FROM ALL CONSTRUCTION ACTIVITIES AND INSURE PROPER ESTABLISHMENT OF GRASS. REFER TO SPECIFICATION SECTION 739-HYDROSEEDING.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR KNOWLEDGE OF EXISTING UTILITIES BASED ON THE PLANS PROVIDED. UTILITY LOCATIONS SHALL BE VERIFIED BY THE OWNER AND CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY UTILITIES DAMAGED AND SHALL RESULT IN NO ADDITIONAL EXPENSE TO THE OWNER.
- 17. ALL LAYOUT WORK SHALL BE APPROVED BY ENGINEER.
- 18. CONTRACTOR SHALL TAKE RESPONSIBILITY AND NECESSARY PRECAUTIONS TO PROTECT ANY EXISTING BUILDING. STRUCTURE OR SITE AMENITY ON SITE AND SHALL MAKE NECESSARY REPAIRS IF ANYTHING IS DAMAGED.
- CONTRACTOR TO MAINTAIN DAILY CLEAN UP OF SITE AT THE END OF EACH DAY AND UNTIL PROJECT COMPLETION.
- 20. CONTRACTOR SHALL PROVIDE ACCESS TO TWO DOCKS AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE A SEQUENCING PLAN FIVE DAYS BEFORE THE PRE-CONSTRUCTION MEETING FOR REVIEW AND APPROVAL BY THE OWNER AND ENGINEER.
- 21. ALL WORK SHALL BE COMPLETED IN THE DRY. THE CONTRACTOR SHALL PROVIDE WHATEVER MEANS NECESSARY TO ASSURE THE PLACEMENT OF PAVEMENTS, CURBING, SIDEWALKS, FOUNDATIONS, FOOTINGS, ETC. ARE PLACED IN DRY CONDITIONS (NO DIRECT PAY).
- 22. PRIOR TO PLACEMENT OF CLASS II BASE COURSE, IN THE BOAT LAUNCH AREA AND LEVELING COURSE IN THE OVERFLOW PARKING LOT THE CONTRACTOR SHALL PROOF ROLL TO LOCATE ANY IRREGULARITIES OR SOFT SPOTS. PROOF ROLL BY USING A LOAD OF 25 TONS IN A 12 TO 14 CUBIC YARD TANDEM DUMP TRUCK WITH A MINIMUM OF 3 PASSES IN EACH DIRECTION AT THE SAME LOCATIONS AND AT A MAXIMUM VEHICLE SPEED OF 3 MPH. ANY RAIN EVENT ON THE PROJECT SITE BETWEEN PROOF ROLLING AND PLACEMENT OF BASE COURSE WILL REQUIRE AN ADDITIONAL PROOF ROLLING, AS NOTED ABOVE. ANY SOFT SPOTS ENCOUNTERED SHALL BE REPAIRED WITH PAY ITEM 23 - UNSUITABLE SUBGRADE, EXCAVATION AND SAND BACKFILL (TRUCK MEASURE) BY THE CUBIC YARD.

EROSION CONTROL NOTES

- 1. SILT FENCING (STORMWATER POLLUTION CONTROL FENCE) SHALL BE INSTALLED AS INDICATED IN THE PROJECT AREAS.
- 2. ADDITIONAL DEVICES MAY BE REQUIRED AS DEEMED NECESSARY BY GOVERNING AUTHORITIES.
- 3. SILT FENCES SHALL BE CLEANED OR REPLACED WHEN SILT BUILDS UP TO HALF OF THE FENCE HEIGHT.
- 4. EROSION CONTROL MEASURES ARE TO BE INSPECTED WEEKLY AND AFTER EACH RAINFALL AND REPAIRED AS NECESSARY AT NO ADDITIONAL EXPENSE TO THE OWNER.
- 5. CONTRACTOR SHALL STAKE HAY BALES AT ENDS OF TRENCH DRAINS AND MAINTAIN THROUGH
- 6. ALL HAY BALES USED FOR EROSION CONTROL SHALL BE STAKED IN PLACE.

SUBSTANTIAL COMPLETION, SEE EROSION CONTROL DETAIL.

SUMMARY OF ESTIMATED QUANTITIES

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	SUMMARY OF ESTIMATED QUANTITIES	THE PORTSON OF	CINE THIRT
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ITEM NO	DESCRIPTION	UNIT	ESTIMATED QUANTITY
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
2	CONSTRUCTION LAYOUT	LUMP SUM	1
3	TREE PROTECTION FENCING	LINEAR FOOT	950
4	SILT FENCING	LINEAR FOOT	1000
5	REMOVAL AND DISPOSAL OF CONCRETE SIDEWALK	SQUARE YARD	541
6	REMOVAL AND DISPOSAL OF CONCRETE CURB AND/OR CURB & GUTTER	LINEAR FOOT	255
7	COLD MILL ASPHALT/AGGREGATE SURFACE FOR BASE (VARIABLE DEPTH)	SQUARE YARD	1625
8	REMOVAL OF LIGHT POLES	LUMP SUM	1
9	REMOVE AND SALVAGE BENCH	EACH	8
10	ASPHALTIC CONCRETE LEVELING COURSE (6" AVERAGE THICKNESS)	SQUARE YARD	5190
11A	ASPHALTIC CONCRETE BINDER COURSE (2" THICK)	SQUARE YARD	5190
11B	ASPHALTIC CONCRETE BINDER COURSE (5" THICK)	SQUARE YARD	1613
12	ASPHALTIC CONCRETE WEARING COURSE (2" THICK)	SQUARE YARD	6803
13	CONCRETE PAVEMENT (8" THICK)(HIGH EARLY STRENGTH)	SQUARE YARD	498
14	CONCRETE SIDEWALK (4" THICK)	SQUARE YARD	73
15	CONCRETE SLAB (6" THICK) FOR SHELTER AND COVERED WALKWAY	SQUARE YARD	92
16	CONCRETE CURB AND/OR CURB AND GUTTER	LINEAR FOOT	310
17	12' X 14' SHELTER, COMPLETE	EACH	1
18	COVERED WALKWAY	LUMP SUM	1
19	TRASH RECEPTACLE	EACH	2
20	NEW LIGHT POLES, COMPLETE	EACH	3
21	EMBANKMENT	LUMP SUM	1
22	DRAINAGE SWALES	LINEAR FOOT	470
23	HYDROSEEDING	LUMP SUM	1
24	UNSUITABLE SUBGRADE, EXCAVATION AND SAND FILLING	CUBIC YARD	100
25	TRENCH DRAINS	LINEAR FOOT	67.2
26	TREATED TIMBER PILES	LINEAR FOOT	360
27	TIMBER TEST PILE	EACH	1
28	CLASS II BASE COURSE (5" AVERAGE THICKNESS) (CRUSHED STONE)	SQUARE YARD	1613

1. WHERE THE QUANTITY OF WORK WITH RESPECT TO ANY ITEM IS COVERED BY A UNIT PRICE, SUCH QUANTITIES ARE ESTIMATED QUANTITIES TO BE USED WHEN COMPARING BIDS AND THE RIGHT IS RESERVED BY THE OWNER TO INCREASE/DECREASE SUCH QUANTITIES UP TO 25% WITHOUT ADJUSTMENT OF THE UNIT PRICE AS MAY BE NECESSARY TO COMPLETE THE WORK AS DESCRIBED IN THESE PLANS AND SPECIFICATIONS AND/OR REMAIN WITHIN FUNDING LIMITS.

UZERING. LLC				
A 70006				
gineering.com				
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STATE OF LOUISIANS

James andrew Wilson

License No. 35456

4508 CLEARVIE' METAIRIE, LA ΣÜ

STAL PROTECTION
D RESTORATION
AUTHORITY COAST/ AND I

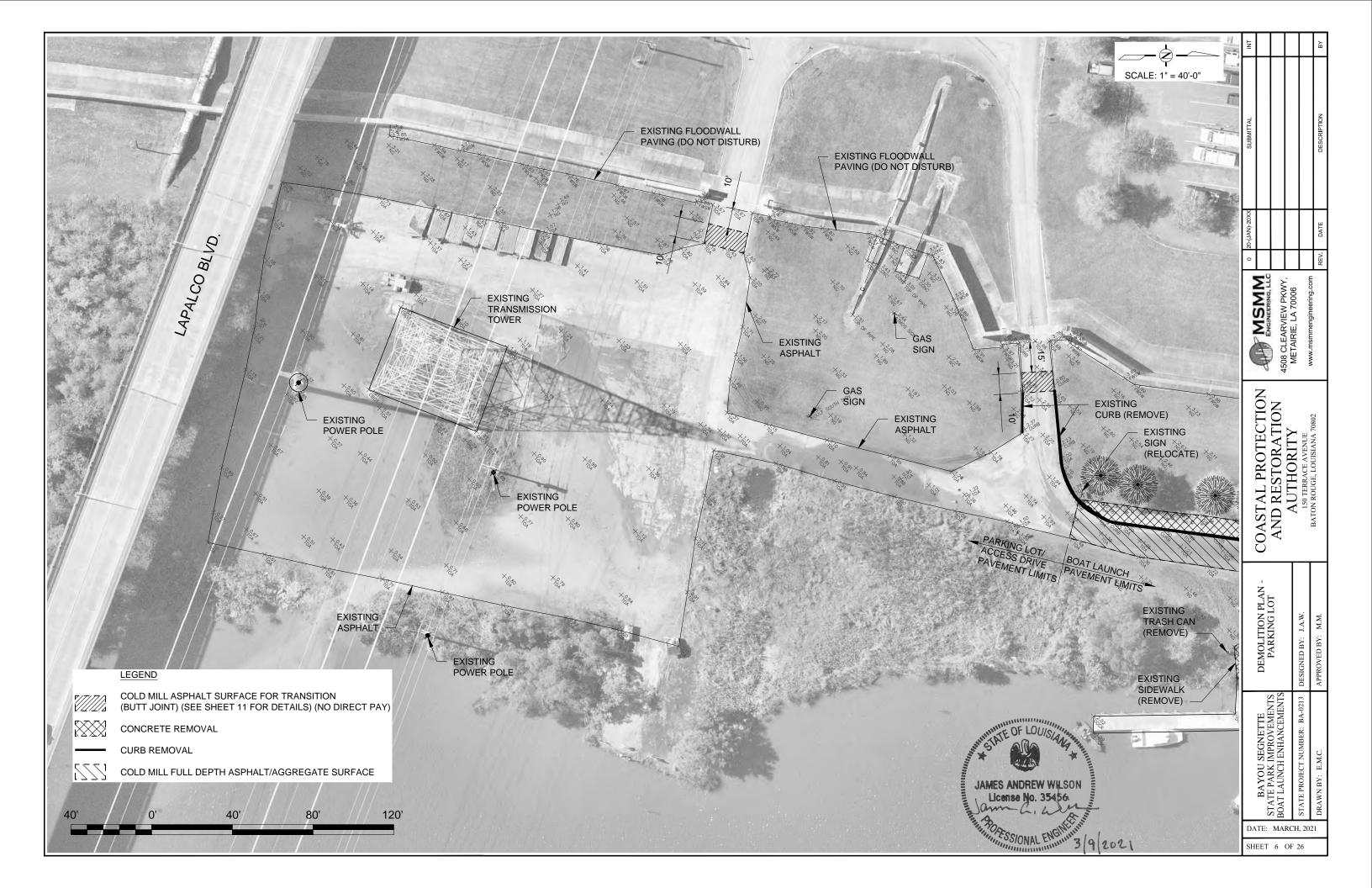
GENERAL NOTES AND ESTIMATED QUANTITIES BAYOU SEGNETTE TATE PARK IMPROVEMEN DAT LAUNCH ENHANCEMEN

DATE: MARCH, 2021

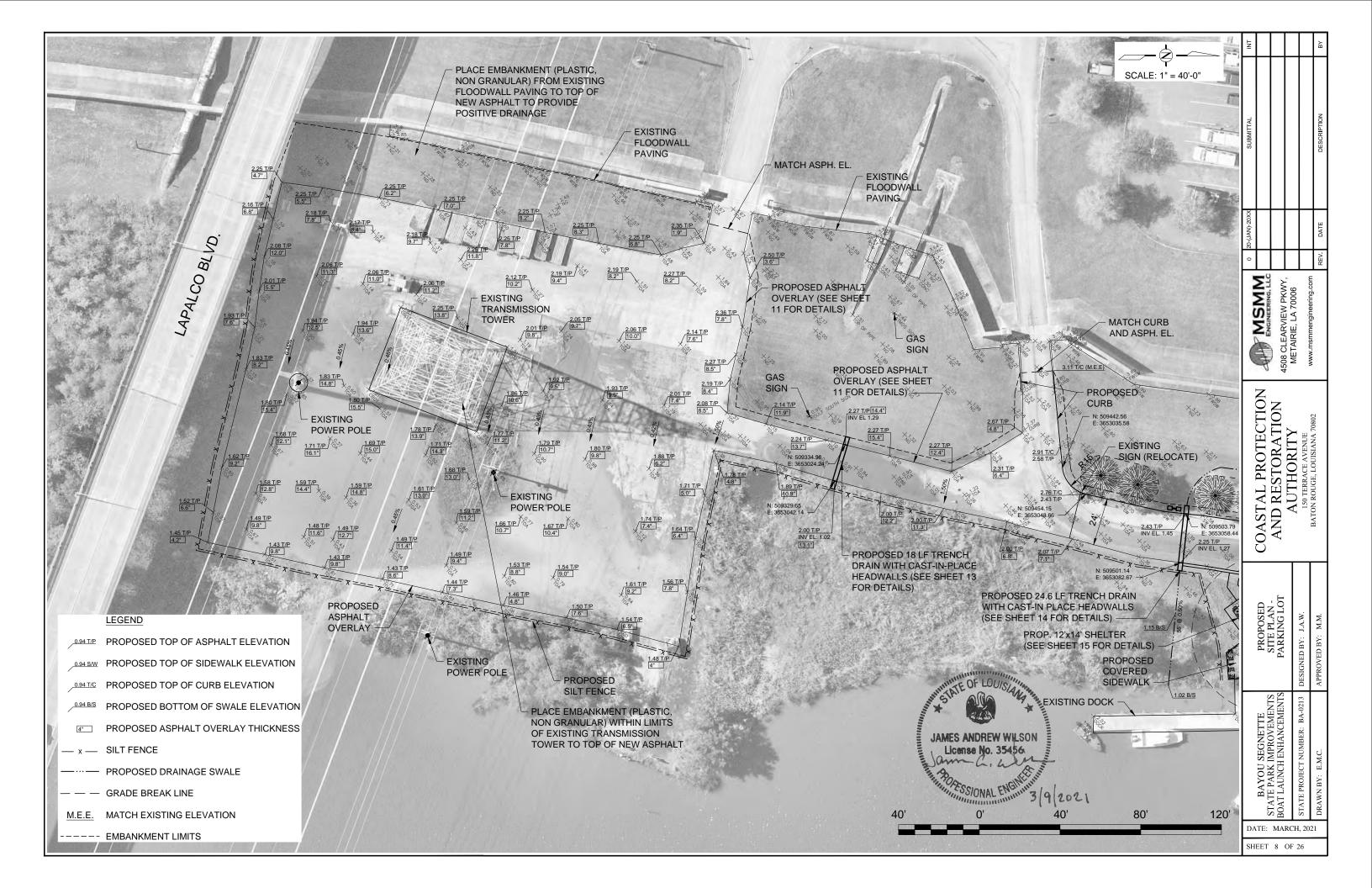
SHEET 3 OF 26

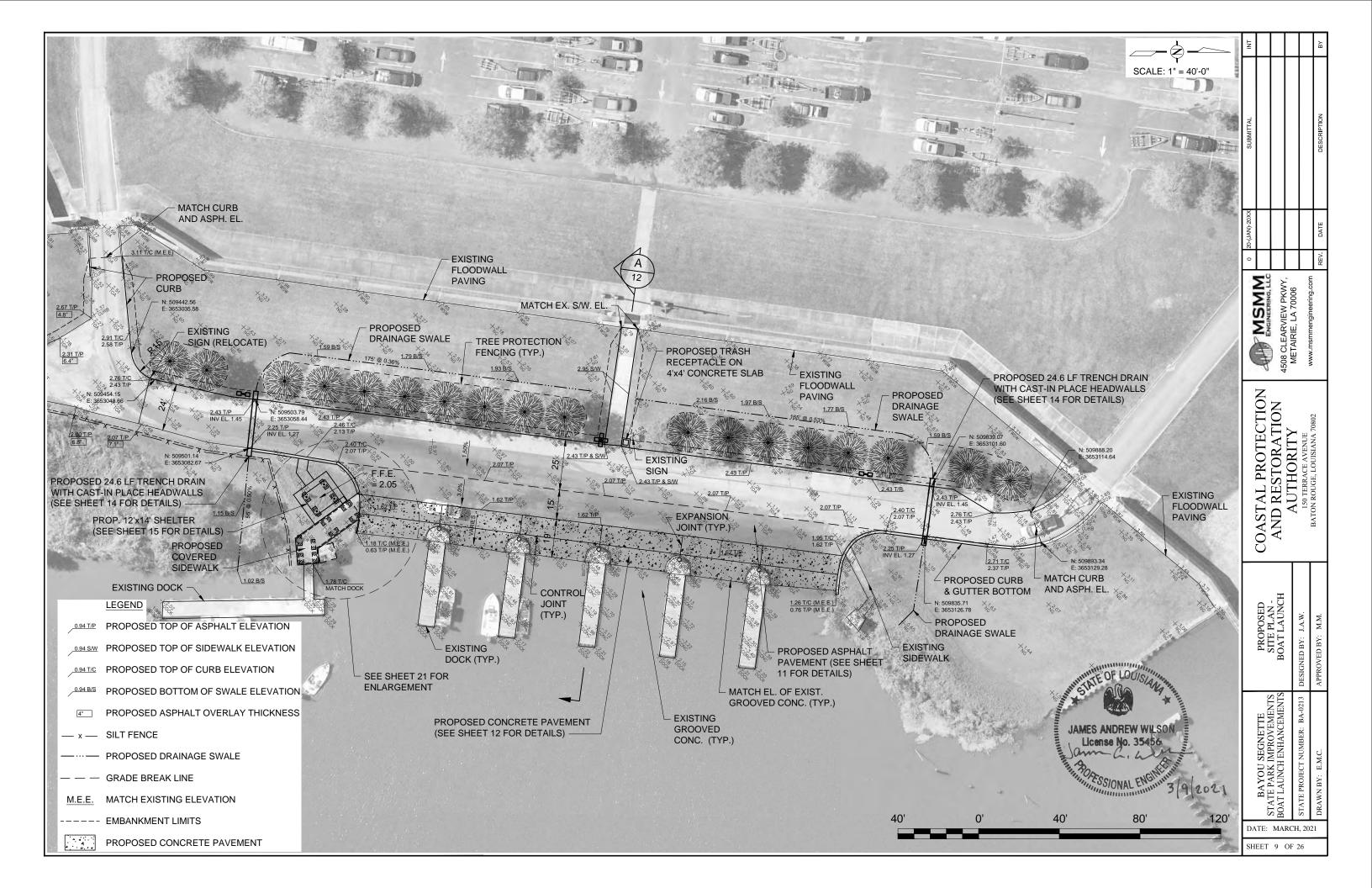




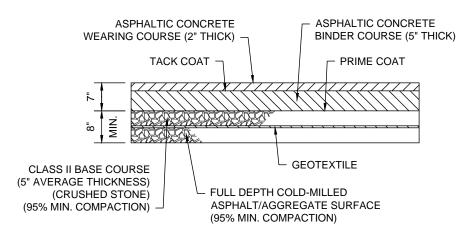






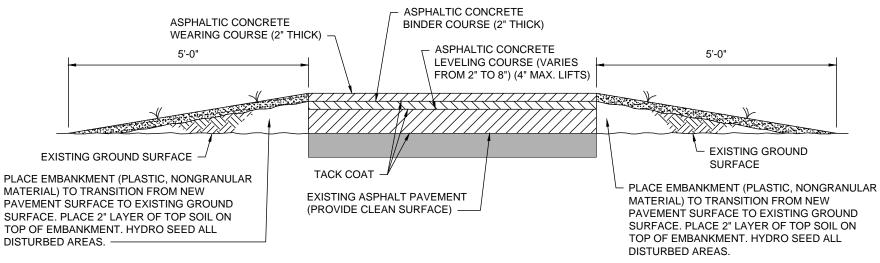






TYPICAL ASPHALT PAVEMENT DETAIL FOR BOAT LAUNCH AREA SCALE: 1/2" = 1'-0"

ASPHALTIC CONCRETE REQUIREMENTS						
LOCATION	MIX LEVEL	ASPHALT GRADE REQUIRED	NOMINAL SIZED AGGREGATE			
WEARING (2")	LEVEL A	PG 67-22	1/2"			
BINDER (2" OR 5")	LEVEL 1	PG 67-22	3/4"			
LEVELING (VARIABLE)	LEVEL 1	PG 67-22	1"			

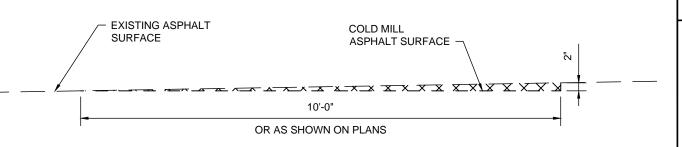


TYPICAL ASPHALT PAVEMENT DETAIL FOR EXISTING PARKING LOT AND ACCESS DRIVES

SCALE: 1/2" = 1'-0"

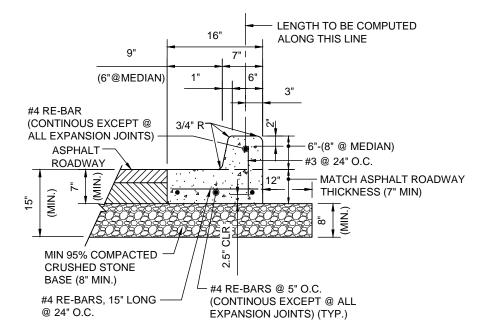
NOTE:

ALL EMBANKMENT (TOP SOIL) MATERIAL SHALL BE AS SPECIFIED IN SECTION 203.06.1 - USABLE SOILS OF THE 2016 LOUISIANA STANDARD SPECIFICATIONS FOR ROAD AND BRIDGES.



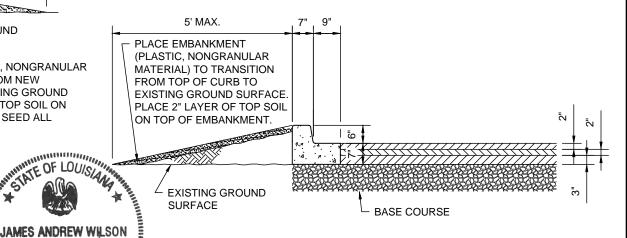
COLDMILL ASPHALT SURFACE FOR TRANSITION DETAIL (BUTT JOINT)

SCALE: 1/2" = 1'-0"



BARRIER CURB AND GUTTER BOTTOM

SCALE: N.T.S.



TYPICAL 6" BARRIER CURB AND GUTTER BOTTOM

License No. 35456

3/9/2021

SCALE: 3/8" = 1'-0"

DATE: MARCH, 2021 SHEET 11 OF 26

BAYOU S STATE PARK IN BOAT LAUNCH F

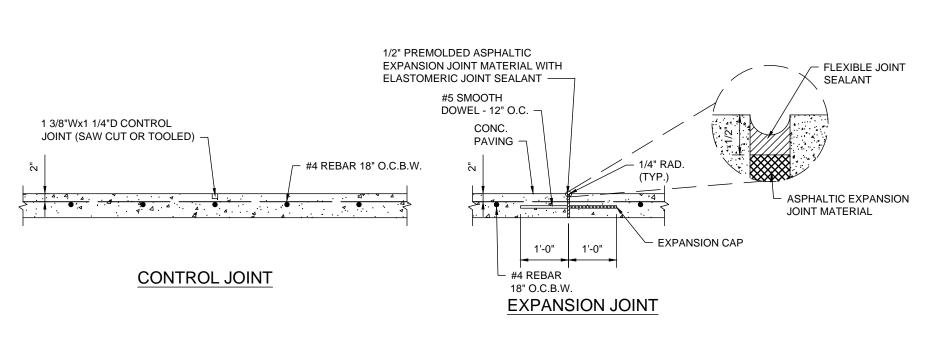
SMM NEERING, LLC

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4508 CLEARVIEW PKWY, METAIRIE, LA 70006

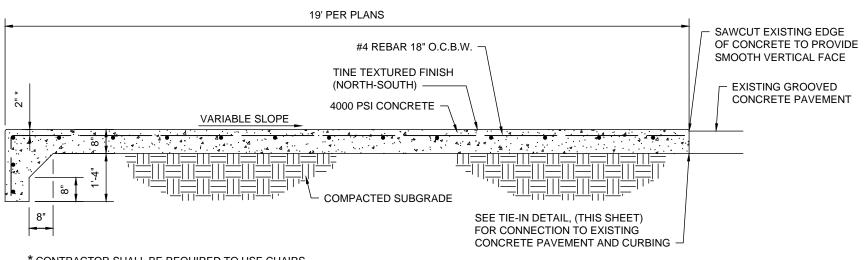
COASTAL PROTECTION AND RESTORATION AUTHORITY

PAVEMENT DETAILS



CONTROL AND EXPANSION JOINT DETAILS

SCALE: 1/2" = 1'-0"



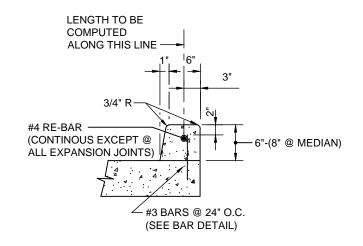
* CONTRACTOR SHALL BE REQUIRED TO USE CHAIRS TO ENSURE CONSISTENT DEPTH OF BARS IN THE SLAB

CONCRETE PAVEMENT DETAIL

SCALE: 3/8" = 1'-0"

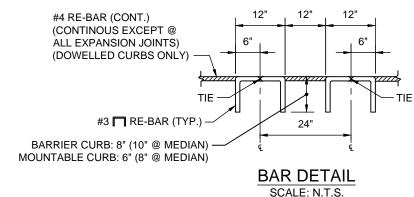
NOTE:

1. PLACEMENT OF CONCRETE PAVEMENT SHALL BE IN THE DRY.



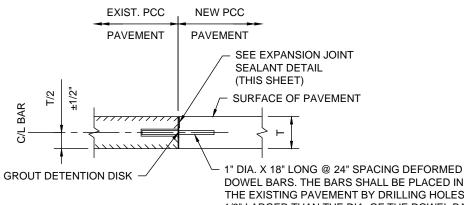
DOWELED BARRIER CURB

SCALE: N.T.S.



NOTE:

1. SHOWING DIMENSIONS AND SPACING OF DEF. REINF STEEL BARS FOR CONC. CURB



DOWEL BARS. THE BARS SHALL BE PLACED IN THE EXISTING PAVEMENT BY DRILLING HOLES 1/8" LARGER THAN THE DIA. OF THE DOWEL BAR TO A DEPTH OF 1/2 THE BAR LENGTH AND FILLING THE HOLES WITH APPROVED TYPE 1, GRADE C EPOXY RESIN BEFORE INSERTING THE DOWEL BARS.

TIE-IN AT EXISTING CONCRETE DETAIL

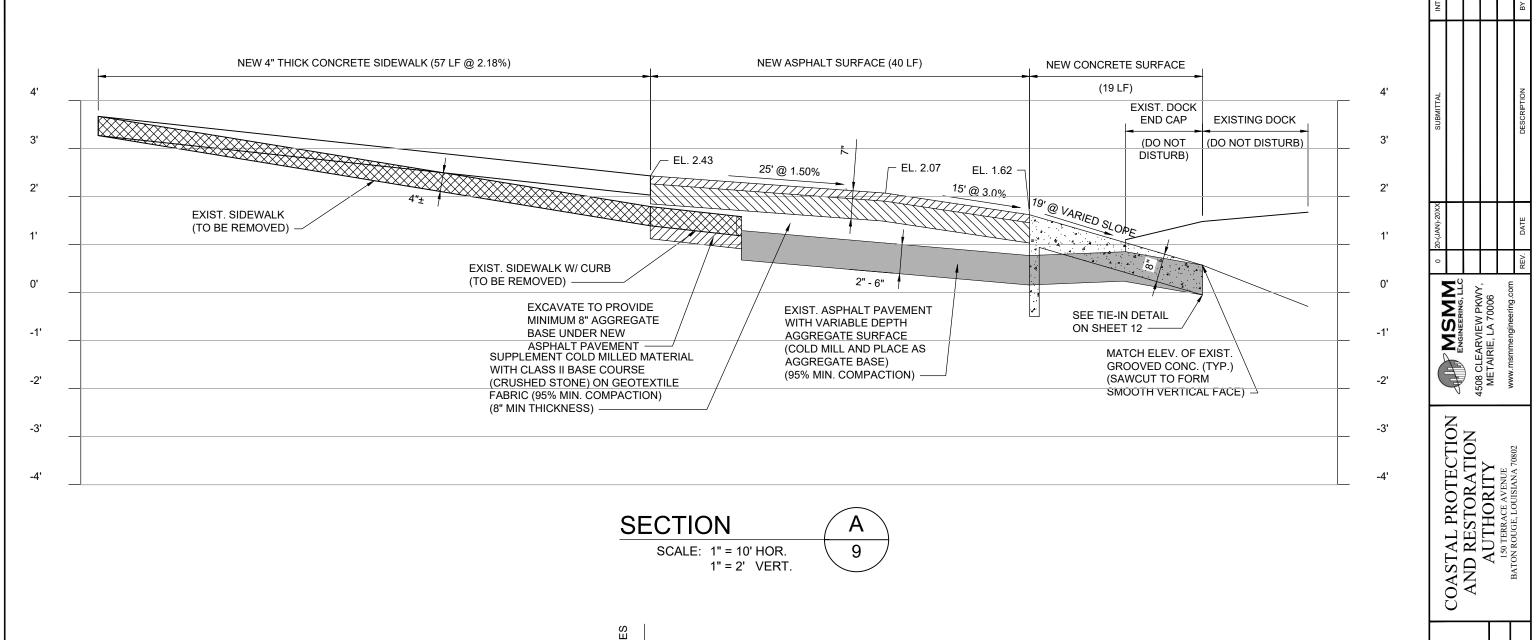
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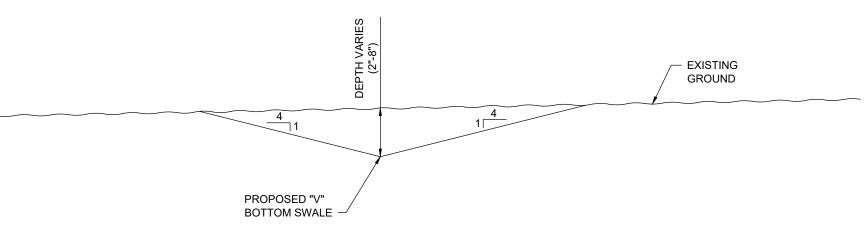
JAMES ANDREW WILSON

SCALE: 1/2" = 1'-0"

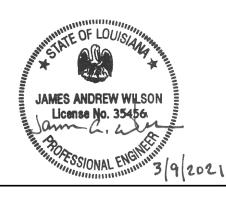
DATE: MARCH, 2021
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ENGINEERING, LLC 4508 CLEARVIEW PKWY, METAIRIE, LA 70006 COASTAL PROTECTION AND RESTORATION AUTHORITY CONCRETE PAVEMENT DETAILS BAYOU SEGNETTE STATE PARK IMPROVEMENTS BOAT LAUNCH ENHANCEMENTS



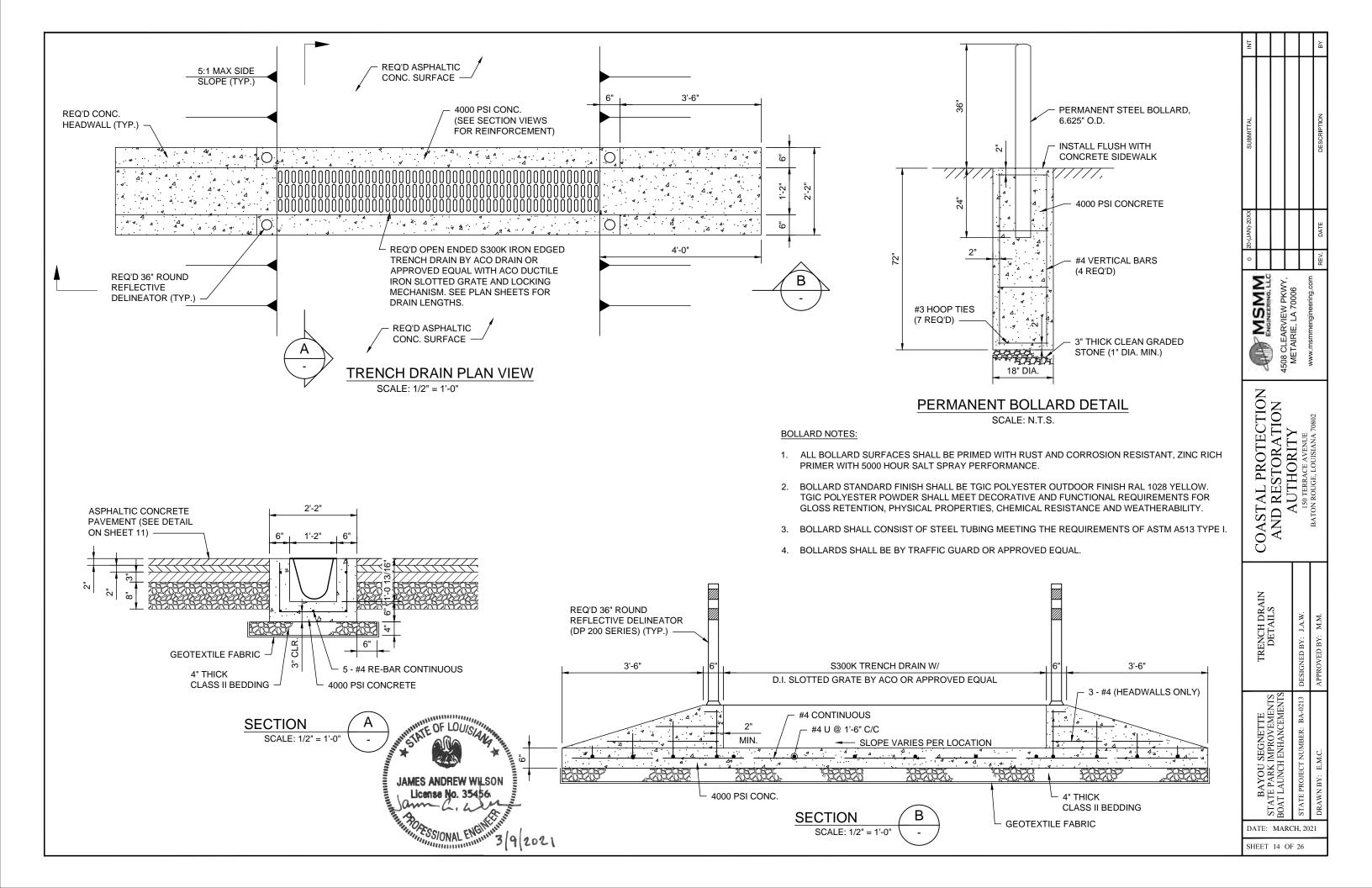


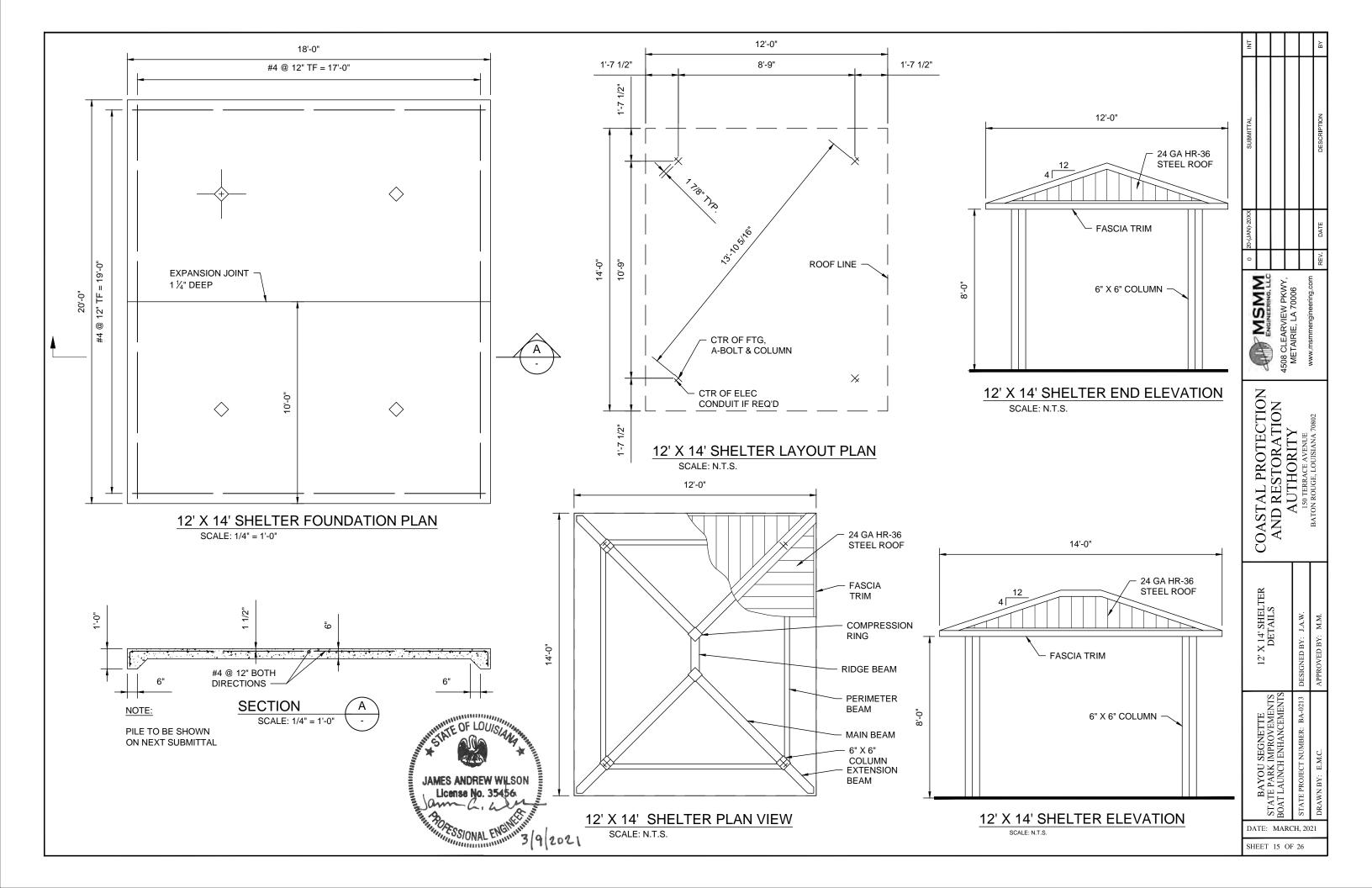
DRAINAGE SWALE TYPICAL SECTION SCALE:NTS



DATE: MARC	BAYOU SEGNETTE STATE PARK IMPROVEMENTS BOAT LAUNCH ENHANCEMENTS	PAV SEC BOAT
СН, 20	STATE PROJECT NUMBER: BA-0213	DESIGNED BY:
21	DRAWN BY: E.M.C.	APPROVED BY

SHEET 13 OF 26





GENERAL NOTES

- 1. ALL STRUCTURES SHALL BE DESIGNED AND FABRICATED TO THE IBC (LATEST EDITION) OR CURRENT LOCAL BUILDING CODE WITH STANDARD LOAD DESIGNS OF THE GREATER VALUE OF 20# PER S.F. MINIMUM LIVE LOAD AND 100 MPH SUSTAINED WIND LOAD OR SITE SPECIFIC CONDITIONS AND THE APPLICABLE ONE FOR SEISMIC LOADS.
- 2. ALL MEMBERS SHALL BE DESIGNED ACCORDING TO THE "AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)" SPECIFICATIONS AND THE AMERICAN IRON AND STEEL INSTITUTE (AISI) SPECIFICATIONS FOR COLD-FORMED MEMBERS.
- 3. ALL FABRICATION WELDS SHALL BE IN STRICT ACCORDANCE WITH THE STRUCTURAL WELDING CODE OF THE AMERICAN WELDING SOCIETY (AWS) SPECIFICATIONS. ALL STRUCTURAL WELDS SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS OF "PRE-QUALIFIED" WELDED JOINTS. ALL WELDING SHALL CONFORM TO ASTM A-233 SERIES E-70XX ELECTRODES - LOW HYDROGEN. FIELD WELDING SHALL NOT BE REQUIRED.
- 4. WHEN REQUIRED, AFTER AWARD OF BID. THE SHADE STRUCTURE MANUFACTURER SHALL SUBMIT STRUCTURAL CALCULATIONS, SEALED BY A REGISTERED ENGINEER IN THE STATE IN WHICH THE STRUCTURE IS TO BE ERECTED FOR REVIEW AND APPROVAL BY THE APPROVING AGENCY
- 5. MANUFACTURER QUALIFICATIONS: ALL MANUFACTURERS SHALL HAVE A MINIMUM OF (20) TWENTY YEARS EXPERIENCE IN THE FABRICATIONS OF TUBULAR STEEL SHADE STRUCTURES. SHADE STRUCTURE AND KIOSK FABRICATION SHALL BE THE MANUFACTURER'S PRIMARY BUSINESS. MANUFACTURER SHALL HAVE FABRICATED SIMILAR STRUCTURES TO THAT WHICH IS SPECIFIED. ALL NON-SPECIFIED MANUFACTURERS SHALL SUBMIT COMPLETE SHOP DRAWINGS INDICATING TYPE. SIZE & GAUGE OF MATERIAL USED. WITH DETAILED CONNECTIONS TO THE SPECIFYING AGENCY OR DESIGN FIRM AT LEAST 10 DAYS PRIOR APPROVAL WILL BE REJECTED.

FOOTINGS AND COLUMNS

1. FOOTINGS SHALL BE STRUCTURALLY ENGINEERED BY THE STRUCTURE MANUFACTURER TO MEET LOCAL CODES AND SITE CONDITIONS. (SAMPLE FOOTING DRAWINGS SHALL BE MADE AVAILABLE TO THE CONTRACTOR OR OWNER FROM THE MANUFACTURER). WHEN REQUIRED FOR STRUCTURE INSTALLATION, ANCHOR AND BOLTS SHALL BE SUPPLIED BY THE OWNER/CONTRACTOR. COLUMNS SHALL BE ASTM 500 GRADE B. CONCRETE FOOTING REBAR (IF REQUIRED) SHALL BE ASTM A-615 GRADE 40 #4 BARS & SMALLER, GRADE 60 #5 & LARGER. CONCRETE SHALL BE 5 SACK MIX "PORTLAND" CEMENT. MAXIMUM SLUMP SHALL NOT EXCEED 4". CONCRETE COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 2500 PSI @ 28 DAYS.

FRAME MEMBERS AND COMPRESSION RING

1. 90% AMERICAN (DOMESTIC) MADE STEEL SHALL BE USED IN THE CONSTRUCTION OF THIS SHELTER. MILL CERTIFICATION SHALL BE MADE AVAILABLE UPON REQUEST. ALL FRAME MEMBERS SHALL BE ONE PIECE STRUCTURAL STEEL TUBE WITH A MINIMUM .120 (3") WALL THICKNESS. SIZED ACCORDING TO ENGINEERING. ALL FRAME MEMBERS SHALL BE BOLTED TOGETHER WITH BOLTS TOTALLY CONCEALED. ALL TUBING FOR FRAME MEMBERS SHALL BE ASTM 500 GRADE B. BEAM END PLATES SHALL BE ASTM A36 FY= 36,000 PSI UNO. BOLTS SHALL BE A 307'S, OR 325'S UNLESS NOTED OTHERWISE. "I" BEAMS, ANGLE IRON, "C", "Z" OR "S" PURLINS OR BEAMS, OPEN OR CLOSED, SHALL NOT BE ALLOWED.

ROOFING

1. ALL ROOFING SHALL BE 24 GAUGE ZINCALUME / GALVALUME COATED STEEL PANELS, ICBO #ER-2757. "HR-36 PANELS SHALL BE 36" WIDE WITH 1 1/4" HIGH RIBS @ 7.2". ALL ROOFING SHALL BE PRE-FINISHED WITH PVF2 (POLYVINYLIDENE FLUORIDE) KYNAR 500 ON THE TOP SIDE. ALL ROOF PANELS SHALL BE PRE-CUT WITH RIBS RUNNING WITH THE SLOPE OF THE ROOF. ROOF FASCIA TRIM SHALL BE $3\frac{1}{2}$ " SQUARE FASCIA TRIM 24 GAUGE ZINCALUME / GALVALUME COATED PRE-FINISHED MATCHING THE ROOF COLOR. SCREWS & RIVETS SHALL MATCH ROOF COLOR. NO EXCEPTIONS TAKEN FOR ROOF TYPE OR TRIM.

POWDER COATING

. ALL FRAME MEMBERS SHALL BE MEDIA BLASTED TO A WHITE FINISH REMOVING ALL RUST, SCALE, OIL AND GREASE. POWDER COATINGS FOR ALL FRAME MEMBERS SHALL BE PROVISIONALLY WARRANTED FOR (5) FIVE YEARS WITH TRUZING 7520-70138 PRIMER WITH A DRY FILM THICKNESS OF (2.0-6.0 MILS) & HARDNESS OF 2H-3H WITH A SALT SPRAY RESISTANCE OF 6000 HOURS AND SUPER DURABLE GLOSS POLYESTER 9000 SERIES FINISH PAINT (2.5-3.5 MILS) WITH A HARDNESS OF H-H2 & HAS 1000 HOUR SALT SPRAY RESISTANCE. TOTAL OF PRIMER & FINISH PAINT SHALL BE 4.5-9.5 MILS OF PAINT. FINISH SHALL BE SMOOTH UNIFORM SURFACE WITH NO PITS, RUNS OR SAGS. FOR ADDITIONAL INFORMATION, PLEASE VISIT HTTP://WWW.TCIPOWDER.COM/ FOR A COMPLETE LIST OF SPECIFICATIONS.

ERECTION

1. MANUFACTURER SHALL SUPPLY COMPLETE LAYOUT AND DETAIL PLANS WITH INSTALLATION INSTRUCTIONS FOR THE STRUCTURE. THE STRUCTURE SHALL BE ERECTED IN A WORK-MAN-LIKE MANNER WITH FRAMING, ROOFING AND TRIM INSTALLED ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. CARE SHALL BE TAKEN TO AVOID DAMAGING THE STRUCTURE DURING INSTALLATION. TOUCH UP POWDER COAT PAINT WITH PAINT PROVIDED TO PREVENT RUSTING. COMPONENTS OF THE STRUCTURE SHALL BE COVERED AND KEPT DRY PRIOR TO ERECTION.

WARRANTY

1. MANUFACTURER SHALL WARRANTY THE STRUCTURE TO BE FREE FROM DEFECTS IN MATERIAL AND WORK-MAN-SHIP FOR A PERIOD OF (10) TEN YEARS FROM DATE OF ACCEPTANCE BY OWNER. WARRANTY DOES NOT INCLUDE DAMAGE FROM THEFT, FIRE, VANDALISM OR ACTS OF GOD. MANUFACTURER SHALL REPAIR OR REPLACE STRUCTURE COMPONENTS OF LIKE KIND AT HIS OPTION, TO MATCH EXISTING MATERIAL AND WORKMANSHIP. STEEL ROOF FINISH SHALL BE WARRANTED FOR (30) THIRTY YEARS UNDER A SEPARATE ROOF MANUFACTURER'S WARRANTY. POWDER COAT PAINT SHALL BE WARRANTED FOR (5) FIVE YEARS AFTER ACCEPTANCE FROM OWNER AGAINST PEELING. FLAKING AND RUSTING. WARRANTY DOES NOT COVER DAMAGE CAUSED FROM SHIPPING. ERECTION OF STRUCTURE. LACK OF TOUCHUP AND MAINTENANCE, OVERSPRAY FROM LAWN SPRINKLERS OR VANDALISM. BOLT THREADS ARE NOT POWDER COATED AND THEREFORE ARE NOT COVERED UNDER THE POWDER COAT WARRANTY.

NOTE: ENGINEERING SPECIFICATIONS TAKE PRECEDENCE OVER DRAWINGS IF DIFFERENCES OCCUR

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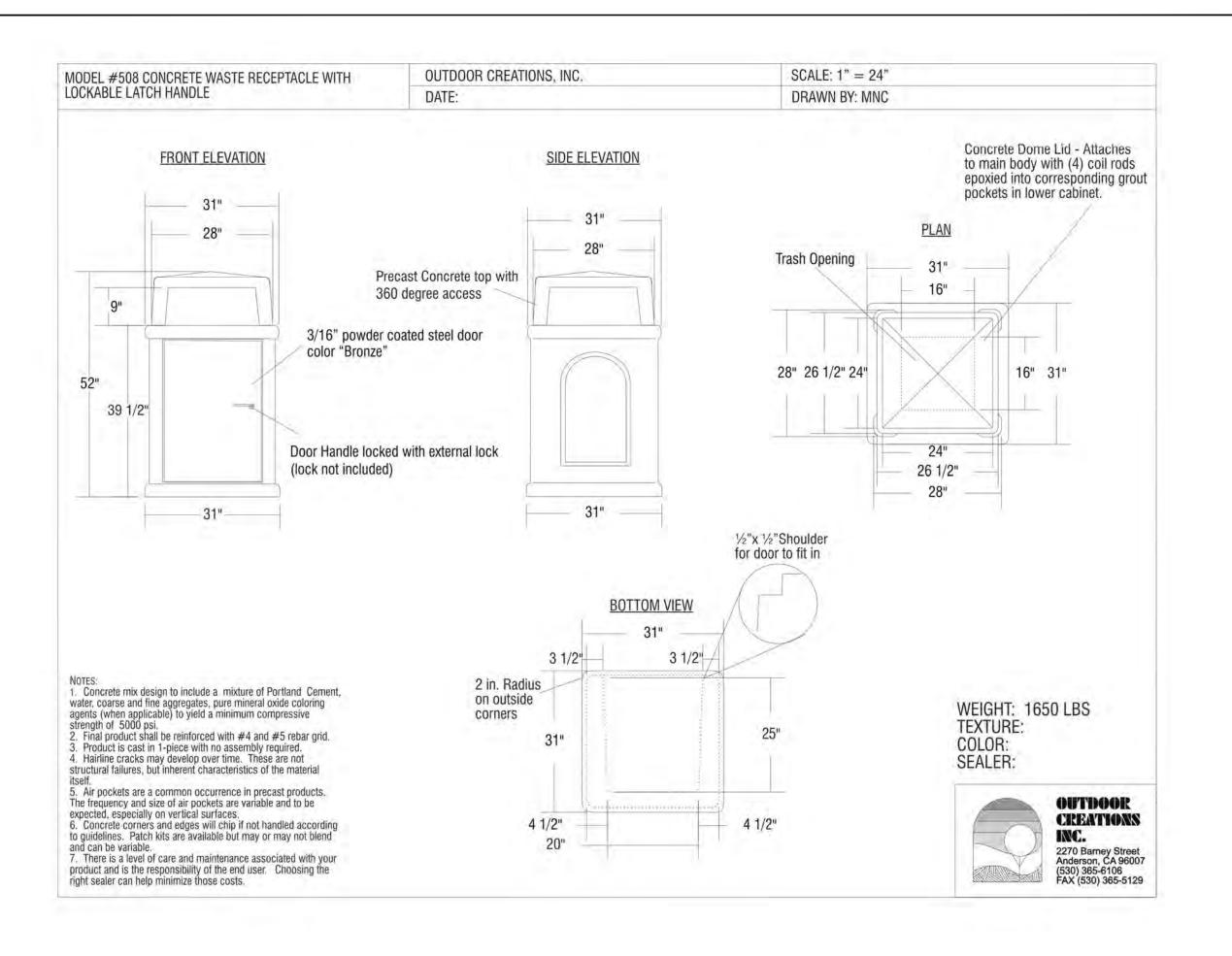
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SHELTER NOTES BAYOU S STATE PARK IN BOAT LAUNCH E

James andrew Wilson License No. 35456

> DATE: MARCH, 2021 SHEET 16 OF 26



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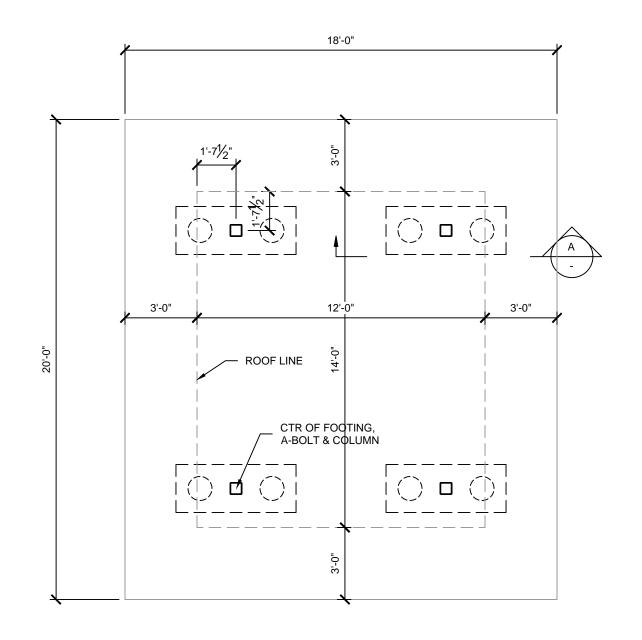
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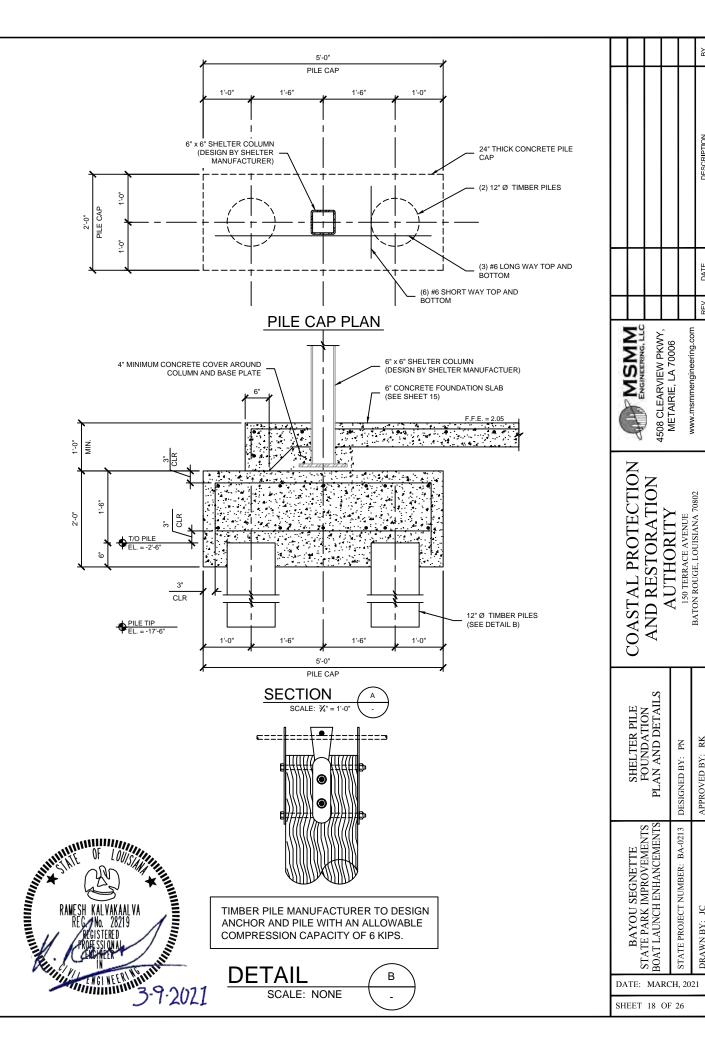
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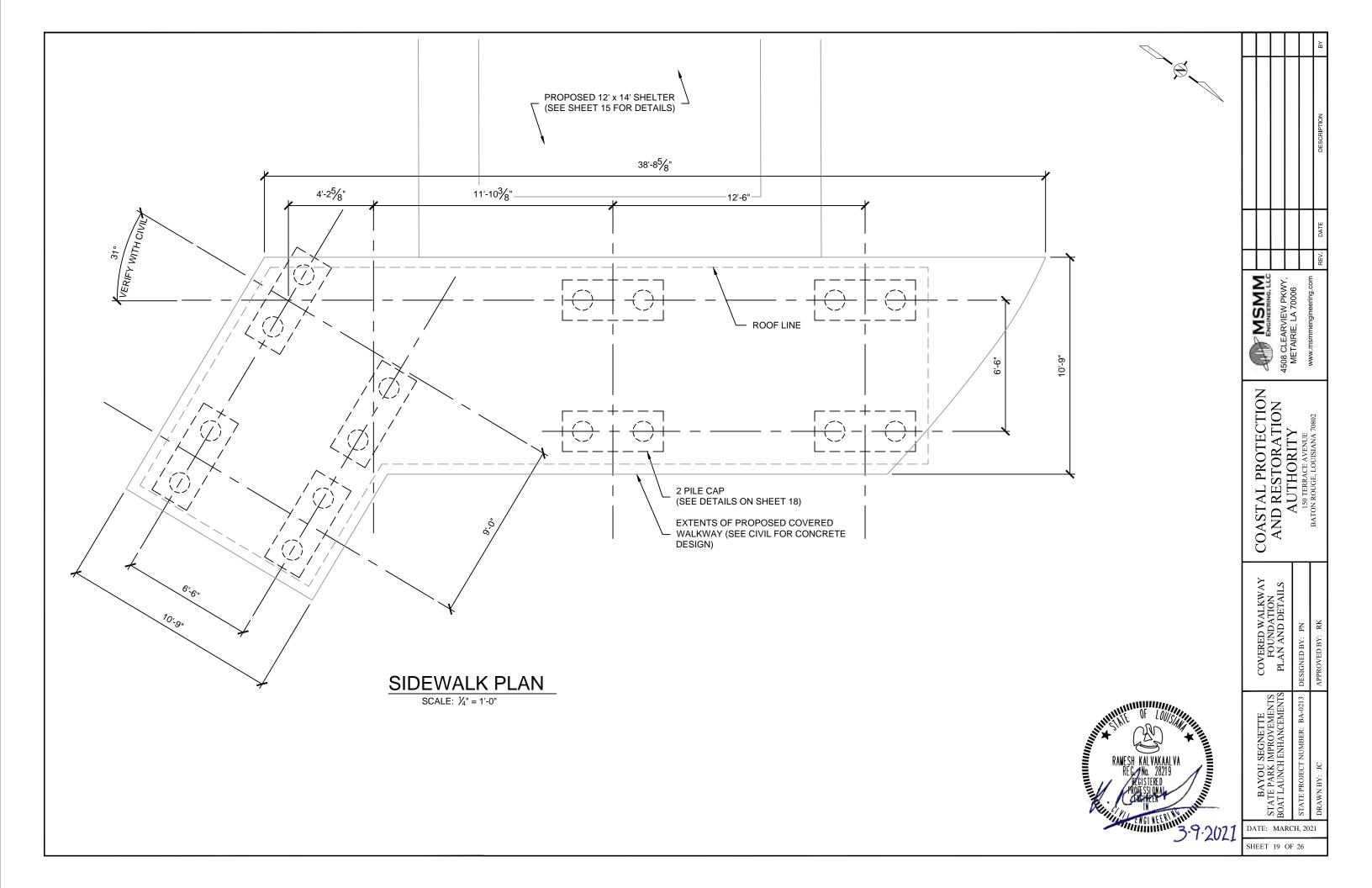
SHEET 17 OF 26

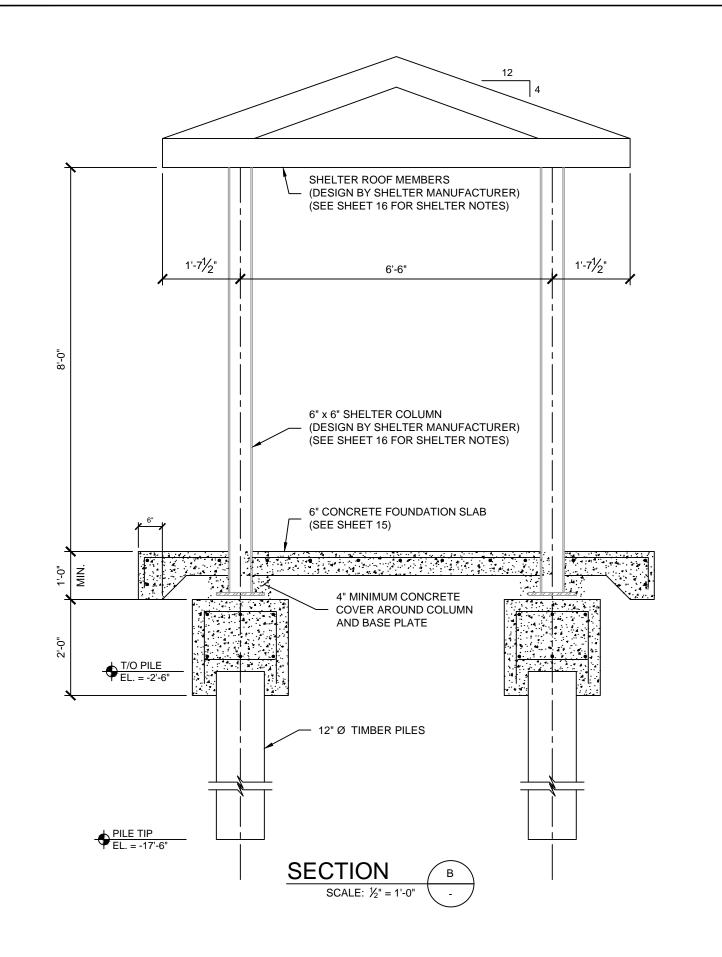




SCALE: 1/4" = 1'-0"









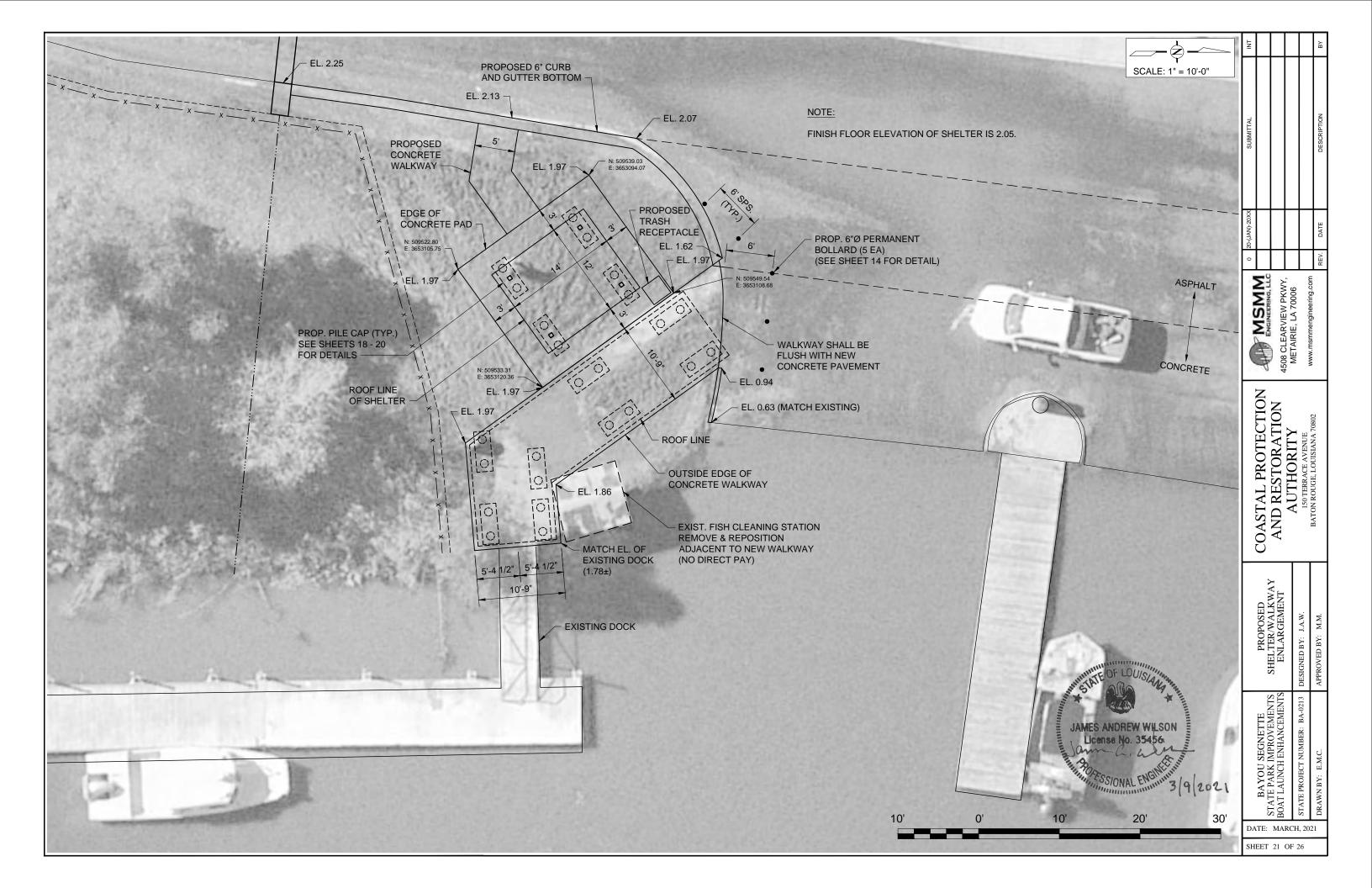
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BAYOU SEGNETTE
STATE PARK IMPROVEMENTS
BOAT LAUNCH ENHANCEMENTS
STATE PROJECT NUMBER: BA-0213
DRAWN BY: JC

WALKWAY FOUNDATION DETAILS

DATE: MARCH, 2021

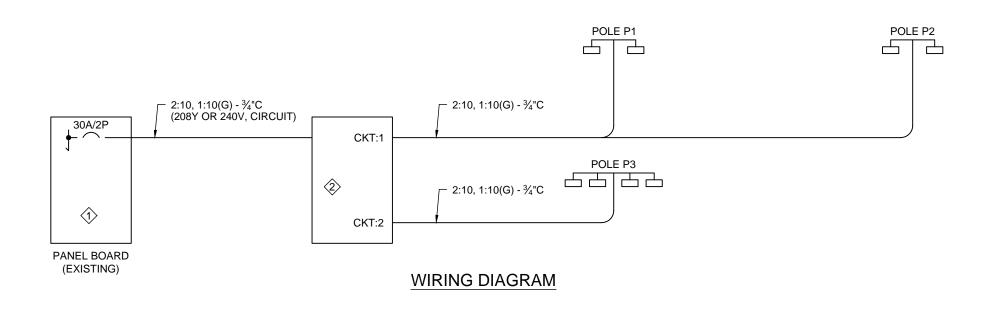
SHEET 20 OF 26



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		(>	LIGHTING FIXTURE SCHEDULE	\langle			
	TYPE	MANUFACTURER (CATALOG NO.	DESCRIPTION	LAMP QTY.	LAMP DESCRIPTION	VOLTS	WATTS
1	P1	CREE (OSQ-HO-A-NM-4ME-40L-57K-UL-BZ-R OSQ-HO-AA-BZ	OUTDOOR AREA FLOOD, 40,000 LUMENS, 70 CRI, 57K CCT, SUITABLE FOR WET LOCATION, UL LISTED, TYPE IV FORWARD THROW, ADJUSTABLE MOUNTING ARM, MULTI-VOLTAGE INPUT, CAST ALUMINUM HOUSING, CONCRETE POLE WITH BASE PLATE, 40' OVERALL LENGTH, CLASS B MEDIUM DUTY, STRESS CRETE P350-BPR-G-T TENON TOP, 2 FIXTURE MOUNTING BRACKET PB-2R2.375)) 2)	LED	208	341x2
	P2	CREE (OSQ-HO-A-NM-4ME-40L-57K-UL-BZ-R OSQ-HO-AA-BZ	OUTDOOR AREA FLOOD, 40,000 LUMENS, 70 CRI, 57K CCT, SUITABLE FOR WET LOCATION, UL LISTED, TYPE IV FORWARD THROW, ADJUSTABLE MOUNTING ARM, MULTI-VOLTAGE INPUT, CAST ALUMINUM HOUSING, CONCRETE POLE WITH BASE PLATE, 40' OVERALL LENGTH, CLASS B MEDIUM DUTY, STRESS CRETE P350-BPR-G-T TENON TOP, 2 FIXTURE MOUNTING BRACKET PB-2R2.375))) 2)	LED	208	341x2
	P3	CREE (OSQ-HO-A-NM-4ME-40L-57K-UL-BZ-R OSQ-HO-AA-BZ	OUTDOOR AREA FLOOD, 40,000 LUMENS, 70 CRI, 57K CCT, SUITABLE FOR WET LOCATION, UL LISTED, TYPE IV FORWARD THROW, ADJUSTABLE MOUNTING ARM, MULTI-VOLTAGE INPUT, CAST ALUMINUM HOUSING, CONCRETE POLE WITH BASE PLATE, 40' OVERALL LENGTH, CLASS B MEDIUM DUTY, STRESS CRETE P350-BPR-G-T TENON TOP, 4 FIXTURE MOUNTING BRACKET PB-4R2.375 (90))) 4	LED	208	341x4

- ALL POLES AND ATTACHED LIGHT FIXTURES SHALL BE RATED FOR 150 MPH WIND LOADING. SUBMIT DATA FOR ENGINEER APPROVAL.
- (2) CONTRACTOR SHALL FIELD VERIFY EXISTING PANEL BOARD POWER SOURCE PRIOR TO ORDERING EQUIPMENT.

NOTES:



NOTES:

- (1) INSTALL 30A/2P BREAKER IN EXISTING PANEL
- 7 DAY ASTRONOMIC TIME SWITCH, 30A, 2 CIRCUIT, NEMA 3R POLYCARBONATE WITH PADLOCK HASP, INTERMATIC MODEL #ET8215.
- ALL WIRING SHALL BE STRANDED COPPER. CONDUIT SHALL BE RGS ABOVE GRADE, PVC 80 30" BELOW GRADE WITH ELECTRIC "WARNING TAPE" OVER CONDUIT (MIN. 12" BELOW GRADE). ALL RISERS FROM BELOW GRADE SHALL BE RGS, PRIMED WITH 3M CORROSION TAPE PRIMER AND COVERED WITH 3M #51, 20 MIL THICK, ½" LAP, DOUBLE LAYER CORROSION TAPE AND A 3" CONCRETE ENVELOPE 12" ABOVE AND 12" BELOW GRADE. EXTEND CORROSION TAPE TO 6" ABOVE AND BELOW CONCRETE.



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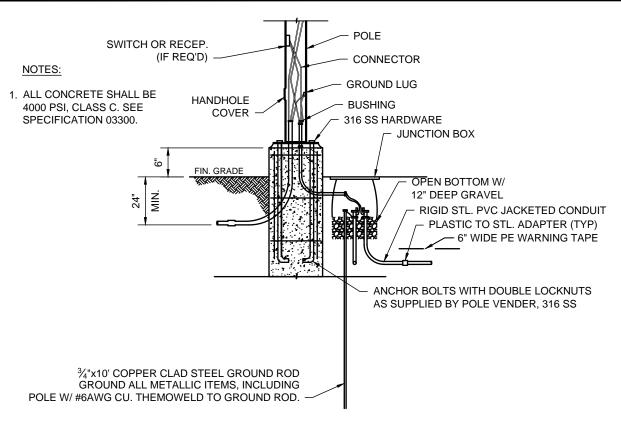
COASTAL PROTECTION
AND RESTORATION
AUTHORITY
150 TERRACE AVENUE

THE ELECTRICAL SCHEDULE
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BA-0213 DESIGNED BY: J.A.W.

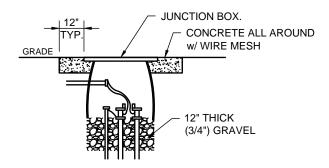
BAYOU SEGNETTE STATE PARK IMPROVEMENTS BOAT LAUNCH ENHANCEMENTS STATE PROJECT NUMBER: BA-0213

DATE: DEC., 2020

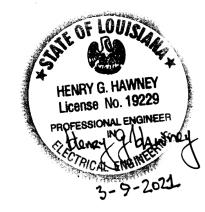
SHEET 22 OF 26



POLE MOUNTING DETAIL SCALE: NTS

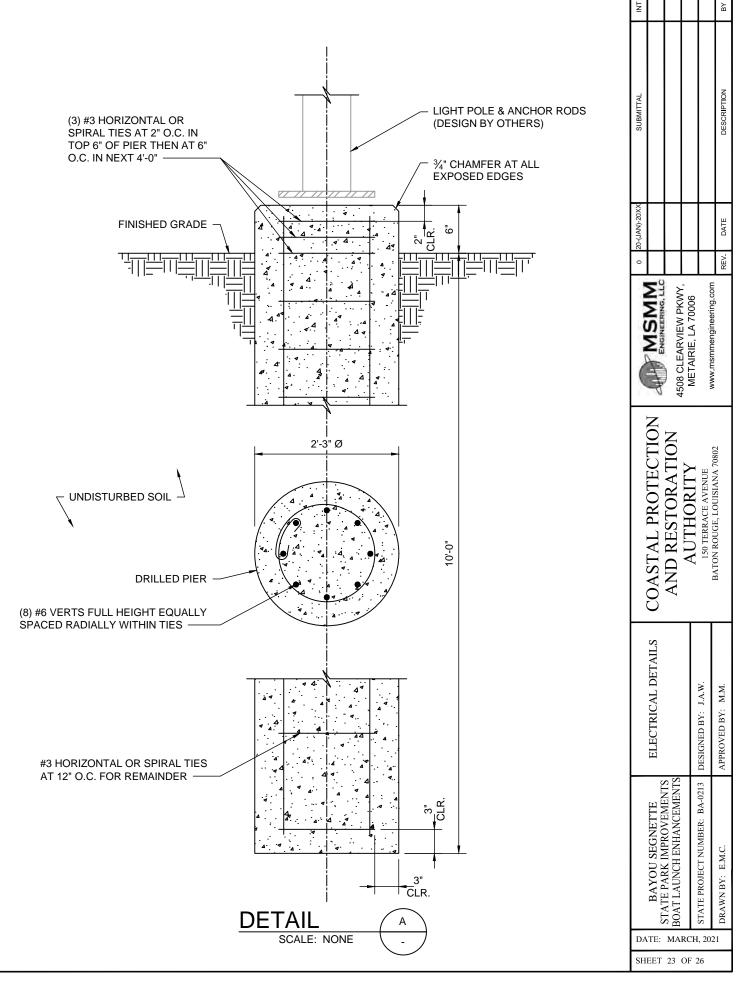


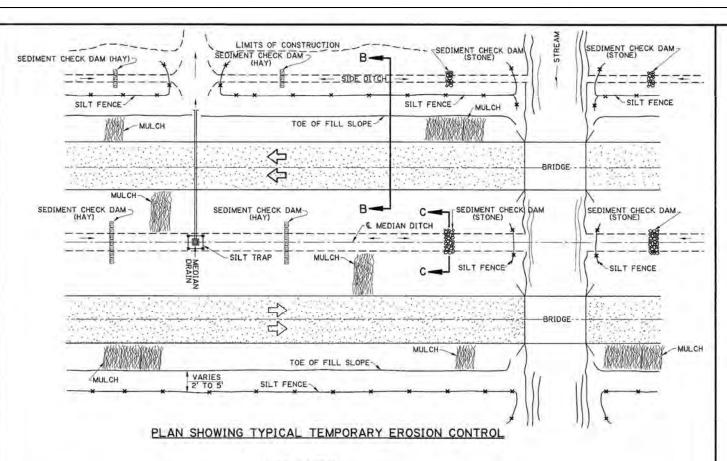
TYPICAL ROADWAY POLE CONNECTION DETAIL SCALE: NTS



NOTES:

- CONCRETE POLE AND BASE PLATE SHALL BE PROVIDED BY STRESSCRETE OR APPROVED EQUAL.
- 2. BASE PLATE SHALL BE CATALOG NUMBER P350-BPR-G-E90-C WITH TENON TOP.
- 3. LIGHT POLES SHALL BE 35 OVERALL LENGTH, CLASS B BASE PLATE CONCRETE POLE WITH TENON TOP.
- LIGHT POLES SHALL BE DESIGNED FOR 140 MPH WIND LOADING.

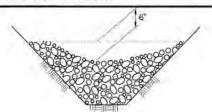




MULCHES

MULCHES ARE THE APPLICATION OF MATS OF MATERIAL PLACED ON THE SOIL SURFACE TO PREVENT EROSION BY PROTECTING THE SOIL SURFACE FROM RAINDROP IMPACT AND TO REDUCE THE VELOCITY OF OVERLAND FLOW. MULCHES CAN BE ORGANIC OR SYNTHETIC. MULCHES SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. A FEW GUIDELINES FOR THE USE OF MULCHES ARE:

- I. USE ON CUT AND EMBANKMENT SLOPES WHICH HAVE NOT BEEN COMPLETED TO PLAN GRADE OR WHERE THE WEATHER OR SOIL CONDITIONS WILL NOT PERMIT COMPLETING THEM WITHIN A REASONABLE TIME
- 2, USE ON CLEARED, GRUBBED , AND SCALPED AREAS WHERE SOIL EROSION IS LIKELY TO OCCUR
- 3. USE WITH TEMPORARY SEEDING



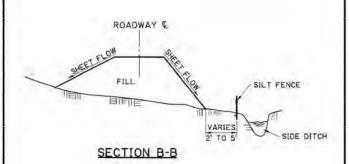
SECTION C-C

TEMPORARY SEDIMENT CHECK DAM (STONE)

PAY ITEM: TEMPORARY SEDIMENT CHECK DAM (STONE)

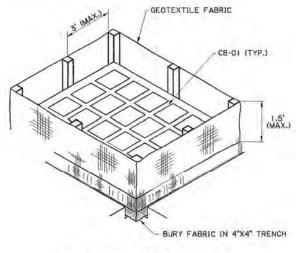
A STONE CHECK DAM IS A SMALL TEMPORARY DAM CONSTRUCTED ACROSS A SWALE OR DRAINAGE DITCH. THE PURPOSE OF THIS MEASURE IS TO REDUCE THE VELOCITY OF CONCENTRATED STORM WATER FLOWS, THEREBY REDUCING EROSION OF THE SWALE OR DITCH. THE STONE CHECK DAM WILL TRAP SMALL AMOUNTS OF SEDIMENTS GENERATED IN THE DITCH ITSELF, HOWEVER IT SHOULD NOT BE USED AS A SEDIMENT TRAPPING DEVICE. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF STONE CHECK DAMS ARE:

- I. USE IN SMALL OPEN CHANNELS WHICH DRAIN TO ACRES OR LESS
- 2. DO NOT USE IN A LIVE STREAM
- USE IN A TEMPORARY DITCH OR SWALE WHICH, BECAUSE OF THEIR SHORT LENGTH OF SERVICE, CANNOT RECEIVE A NON- ERODIBLE LINING
- USE IN PERMANENT DITCHES OR SWALES WHICH WILL NOT RECEIVE A PERMANENT LINING FOR AN EXTENDED PERIOD OF TIME
- USE IN TEMPORARY OR PERMANENT DITCHES OR SWALES WHICH NEED PROTECTION DURING THE ESTABLISHMENT OF GRASS LININGS
- FOR STONE SPECIFICATIONS, SEE PROJECT SPECIFICATIONS FOR RIPRAP, (CLASS 2 LB)



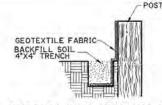
TEMPORARY SILT FENCE APPLICATION

(FOR CONSTRUCTION DETAILS AND SPECIFICATIONS SEE SHEET 2 OF 2.)

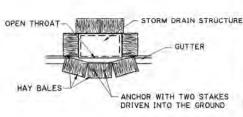


ISOMETRIC VIEW SHOWING GEOTEXTILE FABRIC

(BACKFILL SOIL NOT SHOWN)



SECTION THRU TRENCH SHOWING GEOTEXTILE FABRIC



PLAN SHOWING HAY BALES

PAY ITEM: TEMPORARY HAY OR STRAW BALES

TEMPORARY INLET SILT TRAP

THE TEMPORARY DROP INLET SILT TRAP IS TO BE USED FOR SMALL DRAINAGE AREAS (LESS THAN I ACRE) WHERE THE STORM DRAIN IS FUNCTIONAL BEFORE THE AREA IS STABILIZED. THE TRAP CAN BE EITHER GEOTEXTILE FABRIC OR HAY BALES.

- THE GEOTEXTILE FABRIC SHALL CONFORM TO PROJECT SPECIFICATIONS FOR GEOTEXTILE FABRIC (CLASS G).
- WOODEN STAKES SUPPORTING THE FABRIC SHALL BE 2" X 2" OR 2" X 4" WITH A MINIMUM LENGTH OF 3 FEET. THE STAKES SHALL BE SPACED AROUND THE INLET AT A MAXIMUM SPACING OF 3 FEET.
- 3. THE HEIGHT OF THE FABRIC ABOVE THE INLET SHALL BE LIMITED TO 1.5' AND THE BOTTOM OF THE FABRIC SHALL BE BURIED IN A TRENCH APPROXIMATELY 4" WIDE BY 4" DEEP. THE FABRIC SHALL BE STAPLED TO THE POST WITH ½" STAPLES.
- THE TRAP SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM. THE SEDIMENT SHOULD BE REMOVED AND EACH STAKE SHOULD BE FIRMLY IN THE GROUND.
- HAY BALES SHALL BE PLACED SO THAT THE BINDING WIRE OR TWINE IS NOT IN CONTACT WITH THE GROUND.



POINTS A SHOULD BE HIGHER THAN POINT B.

ELEVATION



SECTION A-A

TEMPORARY SEDIMENT CHECK DAM (HAY)

PAY ITEM: TEMPORARY SEDIMENT CHECK DAM (HAY)

NOTES:

A HAY BALE BARRIER IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED BALES OF STRAW OR HAY. THE HAY BALE BARRIER IS ALSO USED AS A CHECK DAM TO REDUCE THE VELOCITY IN SMALL DITCHES OR SWALES. THE HAY BALES SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A HAY BALE BARRIER ARE:

- I. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION
- 2. USE IN MINOR SWALES OR DITCHES WHERE THE MAXIMUM DRAINAGE AREA IS 2 ACRES
- 3. ONLY USE WHERE THE EFFECTIVENESS IS REQUIRED FOR LESS THAN 3 MONTHS
- 4. DO NOT USE IN LIVE STREAMS OR IN SWALES OR DITCHES WHERE THERE IS A POSSIBILITY OF A WASHOUT



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BAYOU SEGNETTE STATE PARK IMPROVEMENTS BOAT LAUNCH ENHANCEMENTS

DATE: MARCH, 2021

SHEET 24 OF 26

PLAN



SECTION D-D

TEMPORARY STONE CONSTRUCTION ENTRANCE

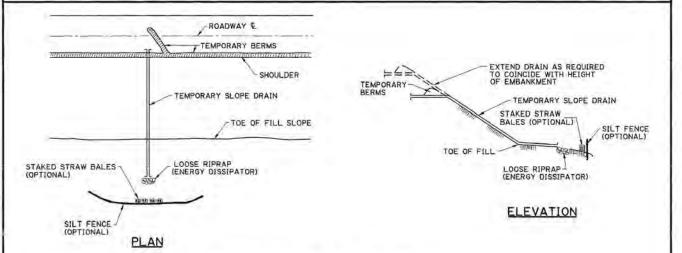
PAY ITEM: TEMPORARY STONE CONSTRUCTION ENTRANCE

NOTES:

TEMPORARY STONE CONSTRUCTION ENTRANCE AND/OR WASH RACK

A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON THE CONSTRUCTION SITE TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLE ENTERS A PUBLIC ROAD. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A STONE ENTRANCE AND/OR WASH RACKS ARE;

- I. THE STONE LAYER MUST BE AT LEAST 6 INCHES THICK.
- 2. THE STONE SHALL CONFORM TO PROJECT SPECIFICATIONS FOR RIPRAP (CLASS 2 LB).
- 3. THE LENGTH OF THE PAD MUST BE A LEAST 75 FEET AND IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS.
- A GEOTEXTILE FABRIC UNDERLINER IS REQUIRED. THE GEOTEXTILE FABRIC SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR GEOTEXTILE FABRIC (CLASS D).
- IF A WASH RACK IS NECESSARY, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE.

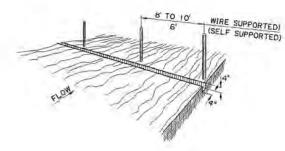


TEMPORARY SLOPE DRAIN

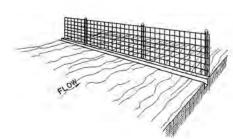
A TEMPORARY SLOPE DRAIN IS A DEVICE USED TO CARRY WATER FROM THE CONSTRUCTION WORK AREA TO A LOWER ELEVATION. SLOPE DRAINS MAY BE PLASTIC SHEET, METAL OR PLASTIC PIPE, STONE GUTTERS, FIBER MATS, OR CONCRETE OR ASPHALT DITCHES. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A TEMPORARY SLOPE DRAIN ARE:

- I. THE SPACING OF THE SLOPE DRAINS VARIES WITH THE ROAD GRADE.
 FOR GRADES: 0.0% 2.0% USE 500' SPACING
 2.1% 5.0% USE 200' SPACING
 GREATER THAN 5.0% USE 100' SPACING
- 2. SLOPE DRAIN MATERIAL: SMOOTH PIPE 8" MINIMUM 3 MILS THICK MIN. CORRUGATED PIPE 12" MINIMUM PLASTIC SHEETING 4 WIDE MINIMUM PLASTIC SHEETING 3 MILS THICK MIN.
- 3. PLASTIC SHEETING CAN BE STAKED DOWN OR WEIGHTED WITH ROCKS OR LOGS. THE AREA UNDER THE SHEETING SHOULD BE SHAPED TO PROVIDE AN ADEQUATE CHANNEL.
- 4. THE OUTLET END SHOULD BE PROTECTED OR HAVE SOME MEANS OF DISSIPATING ENERGY. THE FLOW SHOULD BE DIRECTED THROUGH A SEDIMENT TRAP SUCH AS A SILT FENCE, HAY BALES, OR OTHER APPROVED SEDIMENT CONTROL DEVICES.
- 5. TO INSURE PROPER OPERATION, TEMPORARY SLOPE DRAINS SHOULD BE INSPECTED REGULARLY AND AFTER EACH STORM, FOR CLOGGING OR DISPLACEMENT. EROSION AT THE OUTLET SHOULD BE CHECKED AND THE SILT TRAPS CLEANED IF NECESSARY.

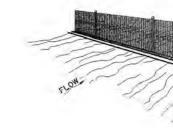
I. SET POSTS AND EXCAVATE A 4" X 4" TRENCH UPSLOPE ALONG THE LINE OF POSTS.



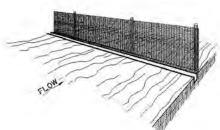
3. ATTACH THE FILTER FABRIC TO THE WIRE FENCE AND EXTEND IT INTO THE TRENCH.



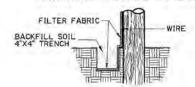
2. STAPLE WIRE FENCING TO THE POSTS.



4. BACKFILL AND COMPACT EXCAVATED SOIL.



EXTENSION OF FABRIC INTO THE TRENCH.



CONSTRUCTION OF TEMPORARY SILT FENCING

(WIRE SUPPORTED SILT FENCE IS SHOWN. SELF SUPPORTED SILT FENCE WILL BE CONSTRUCTED ACCORDING TO MANUFACTURERS SPECIFICATIONS.)

NOTES:

SILT FENCING IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC SUPPORTED BY POSTS AND STRETCHED ACROSS AN AREA TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT. THE SILT FENCING SHALL BE IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR TEMPORARY EROSION CONTROL A FEW BASIC GUIDELINES FOR THE USE OF SILT FENCING ARE:

- I. USE WHERE EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION
- USE WHERE THE MAXIMUM DRAINAGE AREA BEHIND THE SILT FENCE IS 1/4 ACRE PER 100 FEET OF SILT FENCE LENGTH
- 3. USE WHERE THE MAXIMUM SLOPE LENGTH BEHIND THE BARRIER IS 100 FEET
- 4. USE THERE THE MAXIMUM GRADIENT BEHIND THE BARRIER IS 2:1
- DO NOT USE SILT FENCES IN LIVE STREAMS OR IN DITCHES OR SWALES WHERE FLOWS EXCEED ONE CUBIC FOOT PER SECOND

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10-1-06 REMOVE SPECIFIC PAY ITEM NOS., G DATE REVISION DUSCHIPTION SHEE COUNTERS COUNTY A - T COMP	COASTAL PROTECTION AND RESTORATION	AUTHORITY 150 TERRACE AVENUE
10-1-08 DATE APPROVED BY	AST/ ND I	A
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TEMPORARY E CONTROL DI (EC-01)

HYDRAULICS SECTION

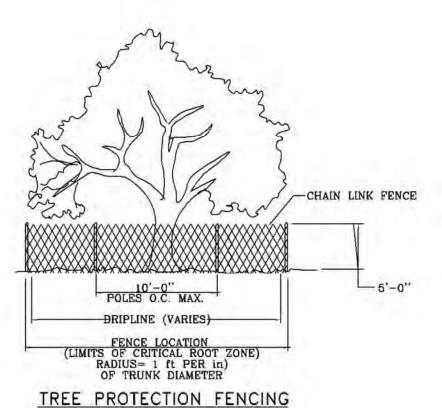
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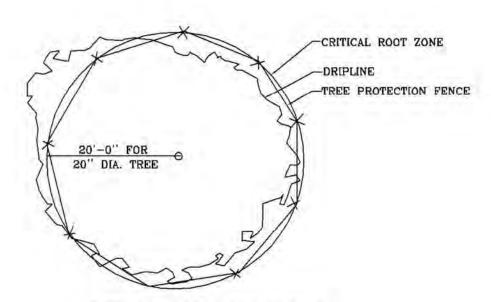
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DATE: MARCH, 2021

SHEET 25 OF 26



CHAIN LINK FENCE



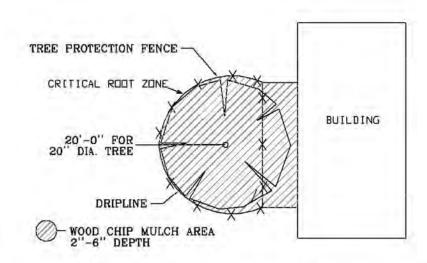
TREE PROTECTION FENCING

CHAIN LINK FENCE

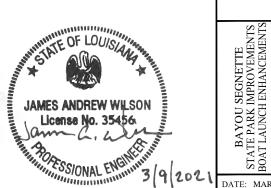
VARIES WOOD CHIP MULCH RADIUS=1 ft PER in OF TRUNK DIAMETER

*AS NEEDED TO PROVIDE MINIMUM NECESSARY WORK SPACE. IF LESS THAN 5', THEN ADD BOARDS STRAPPED TO TRUNK.

MODIFIED TREE PROTECTION FENCING CHAIN LINK FENCE



MODIFIED TREE PROTECTION FENCING CHAIN LINK FENCE



DATE: MARCH, 2021 SHEET 26 OF 26

MSMM ENGINEERING, LLC

4508 CLEARVIEW PKWY, METAIRIE, LA 70006

COASTAL PROTECTION
AND RESTORATION
AUTHORITY
150 TERRACE AVENUE
BATON ROUGE, LOUISIANA 70802

NOTE:

- 1. Activities authorized under this general permit shall not be used for piecemeal work and shall be applied to single and complete projects. All components of a single and complete project shall be treated together as constituting one single and complete project. All planned phases of multi-phased projects shall be treated together as constituting one single and complete project. This general permit shall not be used for any activity that is part of an overall project for which an individual permit is required.
- 2. No activity is authorized under this general permit which may adversely affect significant cultural resources listed or eligible for listing in the National Register of Historic Places until the requirements for Section 106 of the National Historic Preservation Act are met. Upon discovery of the presence of previously unknown historic and/or prehistoric cultural resources, all work must cease and the permittee must notify the State Historic Preservation Office and the Corps of Engineers. The authorization is suspended until it is determined whether or not the activity will have an adverse effect on cultural resources. The authorization may be reactivated or modified through specific conditions if necessary, if it is determined that the activity will have no adverse effect on cultural resources. The PGP authorization will be revoked if it is determined that cultural resources would be adversely affected, and an individual permit may be necessary.
- 3. There shall be no unreasonable interference with navigation by the existence or use of the activity authorized herein. The permittee will, at his or her expense, install and maintain any safety lights, signals, and signs prescribed by the United States Coast Guard, through regulations or otherwise, on authorized facilities or on equipment used in performing work under the authorization.
- 4. No activity may substantially disrupt the movement of those species of aquatic life indigenous to the water body, including those species which normally migrate through the area, unless the activity's primary purpose is to block or impound water.
- 5. If the **authorized** activity involves the installation of aerial transmission lines, submerged cable, or submerged pipelines across navigable waters of the United States the following is applicable:

The National Ocean Service (NOS) has been notified of this authorization. You must notify NOS and this office in writing, at least two weeks before you begin work and upon completion of the activity authorized by this permit. Your notification of completion must include a drawing which certifies the location and configuration of the completed activity (a certified permit drawing may be used). Notification to NOS will be sent to the following address: National Ocean Service, Office of Coast Survey, N/CS261, 1315 East West Highway, Silver Spring, Maryland 20910-3282.

- 6. For pipelines under an anchorage or a designated fairway in the Gulf of Mexico the following is applicable: The NOS has been notified of this authorization. You must notify NOS and this office in writing, at least two weeks before you begin work and upon completion of the activity authorized by this permit. Within 30 days of completion of the pipeline, 'as built' drawings certified by a professional engineer registered in Louisiana or by a registered surveyor shall be furnished to this office, the Commander (dpw), Eighth Coast Guard District, Hale Boggs Federal Building, 500 Poydras Street, Room 1230, New Orleans, Louisiana 70130, and to the Director, National Ocean Service, Office of Coast Survey, N/CS261, 1315 East West Highway, Silver Spring, Maryland 20910-3282. The plans must include the location, configuration and actual burial depth of the completed pipeline project.
- 7. If the **authorized** project, or future maintenance work, involves the use of floating construction equipment (barge mounted cranes, barge mounted pile driving equipment, floating dredge equipment, dredge discharge pipelines, etc.,) in the waterway, you are advised to notify the Eighth Coast Guard District so that a Notice to Mariners, if required, may be prepared. Notification with a copy of your permit approval and drawings should be mailed to the Commander (dpw), Eighth Coast Guard District, Hale Boggs Federal Building, 500 Poydras Street, Room 1230, New Orleans, Louisiana 70130, about 1 month before you plan to start work. Telephone inquiries can be directed to the Eighth Coast Guard District, Waterways Management at (504) 671-2107.
- 8. All activities authorized herein shall, if they involve, during their construction or operation, any discharge of pollutants into waters if the United States, be at all times consistent with applicable water quality standards, effluent limitations and standards of performance, prohibitions, pretreatment standards and management practices established pursuant to the Clean Water Act (PL 92-500:86 Stat 816), or pursuant to applicable state and local laws.
- 9. Substantive changes to the Louisiana Coastal Resources Program may require immediate suspension and revocation of this permit in accordance with 33 CFR 325.7.
- 10. Irrespective of whether a project meets the other conditions of this permit, the Corps of Engineers retains discretionary authority to require an individual Department of the Army permit when circumstances of the proposal warrant this requirement.
- 11. Any individual authorization granted under this permit may be modified, suspended, or revoked in whole or in part if the Secretary of the Army or his authorized representative determines that there has been a violation of any of the terms or conditions of this permit or that such action would otherwise be in the public interest.
- 12. The Corps of Engineers may suspend, modify, or revoke this general permit if it is found in the public interest to do so.
- 13. Activities proposed for authorization under the PGP must comply with all other necessary federal, state, and/or local permits, licenses, or approvals. Failure to do so would result in a violation of the terms and conditions of PGP.

- 14. The permittee shall permit the District Commander or his authorized representative(s) or designee(s) to make periodic inspections of the project site(s) and disposal site(s) if different from the project site(s) at any time deemed necessary in order to assure that the activity being performed under authority of this permit is in accordance with the terms and conditions prescribed herein.
- 15. This general permit does not convey any property rights, either in real estate or material, or any exclusive privileges; and it does not authorize any injury to property or invasion of rights or any infringement of federal, state, or local laws or regulations nor does it obviate the requirements to obtain state or local assent required by law for the activity authorized herein.
- 16. In issuing authorizations under this permit, the federal government will rely upon information and data supplied by the applicant. If, subsequent to the issuance of an authorization, such information and data prove to be false, incomplete, or inaccurate, the authorization may be modified, suspended, or revoked, in whole or in part.
- 17. For activities resulting in sewage generation at the project site, such sewage shall be processed through a municipal sewage treatment system or, in areas where tie-in to a municipal system is not practical, the on-site sewerage system must be approved by the local parish sanitarian before construction.
- 18. Any modification, suspension, or revocation of the PGP, or any individual authorization granted under this permit, will not be the basis for any claim for damages against the United States.
- 19. Additional conditions deemed necessary to protect the public interest may be added to the general permit by the District Commander at any time. If additional conditions are added, the public will be advised by public notice. Individual authorizations under the PGP may include special conditions deemed necessary to ensure minimal impact and compliance with the PGP.
- 20. The PGP is subject to periodic formal review by MVN and OCM in coordination with the Environmental Protection Agency, US Fish and Wildlife Service, the National Marine Fisheries Service, and the Louisiana Department of Wildlife and Fisheries. Comments from reviewing agencies will be considered in determination as to whether modifications to the general permit are needed. Should the District Commander make a determination not to incorporate a change proposed by a reviewing agency, after normal negotiations between the respective agencies, the District Commander will explain in writing to the reviewing agency the basis and rationale for his decision.
- 21. CEMVN retains discretion to review the PGP, its terms, conditions, and processing procedures, and decide whether to modify, reissue, or revoke the permit. If the PGP is not modified or reissued within 5 years of its effective date, it automatically expires and becomes null and void.

- 22. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.
- 23. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party as described in Special Condition 25 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.
- 24. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and State coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.
- 25. If you sell the property associated with this permit, you must provide this office with a copy of the permit and a letter noting your agreement to transfer the permit to the new owner and the new owner's agreement to accept the permit and abide by all conditions of the permit. This letter must be signed by both parties.
- 26. Many local governing bodies have instituted laws and/or ordinances in order to regulate dredge and/or fill activities in floodplains to assure maintenance of floodwater storage capacity and avoid disruption of drainage patterns that may affect surrounding properties. Your project involves dredging and/or placement of fill; therefore, you must contact the local municipal and/or parish governing body regarding potential impacts to floodplains and compliance of your proposed activities with local floodplain ordinances, regulations or permits.
- 27. In issuing authorizations under this permit, the federal government does not assume any liability for: damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes; damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest; damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit, and; design or construction deficiencies associated with the permitted work.

STANDARD MANATEE CONDITIONS FOR IN-WATER ACTIVITIES

During in-water work in areas that potentially support manatees, all personnel associated with the project shall be instructed and aware of the potential presence of manatees, manatee speed zones, and the need to avoid collisions with, and injury to, manatee. All personnel shall be advised that there are civil and criminal penalties for harming, harassing, or killing manatees which are protected under the Marine Mammal Protection Act of 1972 and the Endangered Species Act of 1973. Additionally, personnel shall be instructed not to attempt to feed or otherwise interact with the animal.

All on-site personnel are responsible for observing water-related activities for the presence of manatee(s). To minimize potential impacts to manatees in areas of their potential presence, the permittee shall insure the following are adhered to:

- All work, equipment, and vessel operation shall cease if a manatee is spotted within a 50-foot radius (buffer zone) of the active work area. Once the manatee has left the buffer zone on its own accord (manatees must not be herded or harassed into leaving), or after 30 minutes have passed without additional sightings of manatee(s) in the buffer zone, in-water work can resume under careful observation for manatee(s).
- If a manatee(s) is sighted in or near the project area, all vessels associated with the
 project shall operate at "no wake/idle" speeds within the construction area and at all
 times while in waters where the draft of the vessel provides less than a four-foot
 clearance from the bottom. Vessels shall follow routes of deep water whenever
 possible.
- If used, siltation or turbidity barriers shall be properly secured, made of material in which
 manatees cannot become entangled, and be monitored to avoid manatee entrapment or
 impeding their movement.
- Temporary signs concerning manatees shall be posted prior to and during all in-water project activities and removed upon completion. Each vessel involved in construction activities shall display at the vessel control station or in a prominent location, visible to all employees operating the vessel, a temporary sign at least 8½ " X 11" reading language similar to the following: "CAUTION BOATERS: MANATEE AREA/ IDLE SPEED IS REQUIRED IN CONSRUCTION AREA AND WHERE THERE IS LESS THAN FOUR FOOT BOTTOM CLEARANCE WHEN MANATEE IS PRESENT". A second temporary sign measuring 8½ " X 11" shall be posted at a location prominently visible to all personnel engaged in water-related activities and shall read language similar to the following: "CAUTION: MANATEE AREA/ EQUIPMENT MUST BE SHUTDOWN IMMEDIATELY IF A MANATEE COMES WITHIN 50 FEET OF OPERATION".
- Collisions with, injury to, or sightings of manatees shall be immediately reported to the U.S. Fish and Wildlife Service's, Louisiana Ecological Services Office (337/291-3100) and the Louisiana Department of Wildlife and Fisheries, Natural Heritage Program (225/765-2821). Please provide the nature of the call (i.e., report of an incident, manatee sighting, etc.); time of incident/sighting; and the approximate location, including the latitude and longitude coordinates, if possible.