# JOINT PUBLIC NOTICE

# **January 18, 2016**

United States Army Corps of Engineers New Orleans District Regulatory Branch Post Office Box 60267 New Orleans, Louisiana 70160-0267

(504) 862-1564
Stephanie.L.Castaing@usace.army.mil
Project Manager
Stephanie Castaing
Permit Application Number
MVN 2008-3657-EPP

State of Louisiana Department of Environmental Quality ATTN: Water Quality Certifications Post Office Box 4313 Baton Rouge, Louisiana 70821-4313

(225) 219-3225

Project Manager Elizabeth Hill WQC Application Number WQC 160112-05

Interested parties are hereby notified that a permit application has been received by the New Orleans District of the U.S. Army Corps of Engineers pursuant to: [X] Section 10 of the Rivers and Harbors Act of March 3, 1899 (30 Stat. 1151; 33 USC 403); and/or [X] Section 404 of the Clean Water Act (86 Stat. 816; 33 USC 1344).

Application has also been made to the Louisiana Department of Environmental Quality, Water Quality Certifications, for a Water Quality Certification (WQC) in accordance with statutory authority contained in LRS30:2047 A(3), and provisions of Section 401 of the Clean Water Act (P.L.95-17).

## REMOVAL AND REPLACEMENT OF ACCESS RAMP IN ST. BERNARD PARISH

**NAME OF APPLICANT:** St. Bernard Parish Government, c/o Burk-Kleinpeter, Inc., 4176 Canal Street, New Orleans, Louisiana 70119.

**LOCATION OF WORK:** The project is located on the left descending bank of the Mississippi River, at about 88.3 miles above Head of Passes, in Meraux, Louisiana, in St. Bernard Parish, as shown on the attached drawings.

Latitude: 29.92695/Longitude: -89.959472 Hydrologic Unit Codes: 08090100 Lower Mississippi-New Orleans.

CHARACTER OF WORK: Removal and replacement of an existing raw water in-take access ramp. The new 878.6' x 9.5' ramp will be constructed within the same footprint as the ramp being removed. Project implementation includes removal of all shrubs and limbs at the existing grade level and hauled to a non-wet location at the north end of the property. All other cleared and grubbed material will be loaded onto trucks and hauled to a landfill. Approximately 0.6 acre of jurisdictional wetlands will be temporarily impacted by the proposed activities. All matting within the work area shall be removed at the end of construction. The applicant maintains that jurisdictional wetlands will be temporarily impacted and vegetation will restore once construction is completed thus, no compensatory mitigation is anticipated.

The comment period for the Department of the Army Permit and the Louisiana Department of Environmental Quality WQC will close 20 days from the date of this joint public notice. Written comments, including suggestions for modifications or objections to the proposed work, stating reasons thereof, are being solicited from anyone having interest in this permit and/or this WQC request and must be mailed so as to be received before or by the last day of the comment period. Letters concerning the Corps of Engineers permit application must reference the applicant's name and the Permit Application Number, and be mailed to the Corps of Engineers at the address above, ATTENTION: REGULATORY BRANCH. Similar letters concerning the Water Quality Certification must reference the applicant's name and the WQC Application number and be mailed to the Louisiana Department of Environmental Quality at the address above. Individuals or parties may request an extension of time in which to comment on the proposed work by writing or e-mailing the Corps of Engineers Project Manager listed above. Any request must be specific and substantively supportive of the requested extension, and received by this office prior to the end of the initial comment period. The Section Chief will review the request and the requestor will be promptly notified of the decision to grant or deny the request. If granted, the time extension will be continuous to the initial comment period and, inclusive of the initial comment period, will not exceed a total of 30 calendar days.

The application for this proposed project is on file with the Louisiana Department of Environmental Quality and may be examined during weekdays between 8:00 a.m. and 4:30 p.m. Copies may be obtained upon payment of costs of reproduction.

## **Corps of Engineers Permit Criteria**

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people.

The U.S. Army Corps of Engineers is soliciting comments from the public, federal, state, and local agencies and officials, Indian Tribes, and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the U.S. Army Corps of Engineers to determine whether to make, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

The New Orleans District is unaware of properties listed on the National Register of Historic Places near the proposed work. The possibility exists that the proposed work may damage or destroy presently unknown archeological, scientific, prehistorical, historical sites, or data. Issuance of this public notice solicits input from the State Archeologist and State Historic Preservation Officer regarding potential impacts to cultural resources.

Our initial finding is that the proposed work will result in no effect on any threatened or endangered species. Concurrence has been received from the US Fish and Wildlife Service per the Standard Local Operating Procedure for Endangered Species in Louisiana, dated October 22, 2014.

Our initial finding is that the proposed work would not affect any species, nor affect any habitat designated as critical to the survival and recovery of such species, listed as endangered by the U.S. Department of Commerce.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. The applicant's proposal would result in the destruction or alteration of <u>0.6</u> acres of EFH utilized by various life stages of red drum and penaeid shrimp. Our initial determination is that the proposed action would not have a substantial adverse impact on EFH or federally managed fisheries in the Gulf of Mexico. Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the National Marine Fisheries Service.

If the proposed work involves deposits of dredged or fill material into navigable waters, the evaluation of the probable impacts will include the application of guidelines established by the Administrator of the Environmental Protection Agency. Also, a certification that the proposed activity will not violate applicable water quality standards will be required from the Department of Environmental Quality, Water Quality Certifications, before a permit is issued.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing.

The applicant has certified that the proposed activity described in the application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Resources Program. The Department of the Army permit will not be issued unless the applicant received approval or a waiver of the Coastal Use Permit by the Department of Natural Resources.

You are requested to communicate the information contained in this notice to any other parties whom you deem likely to have interest in the matter.

Michael V. Farabee Chief. Eastern Evaluation Section

Enclosure

#### INDEX TO SHEETS SHEET NO. DESCRIPTION

PROJECT LOCATION & DRAWING INDEX 2.0 2.1 SUMMARY OF QUANTITIES C1.0 TOPOGRAPHIC SURVEY DEMOLITION PLAN DEMOLITION SECTION C4.0 C5.0 PROJECT LAYOUT PLAN PLAN AND ELEVATION
PLAN AND ELEVATION C6.0 PLAN AND ELEVATION C7.1 C8.0 PLAN AND ELEVATION BRIDGE SPANS DETAILS BRIDGE SPANS DETAILS C9.0

BRIDGE SPANS DETAILS

BRIDGE SPANS DETAILS

BRIDGE SPANS DETAILS

C13.0 MISCELLANEOUS DETAILS PANEL SCHEDULE & LIGHTING FIXTURE SCHEDULE E2.0 LIGHTING PLAN

TOTAL NUMBER OF SHEETS = 18

C10.0

C12.0

# ST. BERNARD PARISH GOVERNMENT







PROJECT FEMA PW 16844 VICINITY MAP (N.T.S.)

PLANS PREPARED BY AND RECOMMENDED FOR APPROVAL :

BURK-KLEINPETER, INC. DATE :



BKI JOB NO.14.044



LOCATION MAP

PROJECT LOCATION

2400' 1600'

SCALE: 1"=800"

90% REVIEW ONLY

#### 1. DESIGN SPECIFICATIONS

STRUCTURE DESIGN IS IN ACCORDANCE WITH LOAD FACTOR BRIDGE DESIGN

#### 2. DESIGN CRITERIA

THE ELEVATED CONCRETE SLAB IS DESIGNED TO SATISFY BOTH SERVICE LOAD DESIGN METHOD AND LOAD FACTOR DESIGN METHOD. THE ALLOWABLE COMPRESSIVE STRESS IN CONCRETE AT SERVICE LOAD (fc) IS MODIFIED TO 0.375 fg.

#### 3. DESIGN LOADS:

#### DEAD LOADS:

THE STRUCTURE IS DESIGNED FOR THE SELF-WEIGHT OF THE ENTIRE STRUCTURE INCLUDING GUARDRAILS AND LIGHT POLES.

THE STRUCTURE IS DESIGNED FOR THE VEHICULAR TRAFFIC LIVE LOADING: HS-10.

#### 4. CONSTRUCTION SPECIFICATIONS:

CONSTRUCTION SHALL BE IN ACCORDANCE WITH "THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, OFFICE OF HIGHWAYS" "STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES", 2006, (LADOTD BLUE BOOK) EXCEPT AS SUPPLEMENTED OR AMENDED BY THE PLANS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS

#### 5. ELEVATIONS:

ALL ELEVATIONS ARE BASED ON NAD 83 (2011), 2010.0000 EPOCH REF. REFER TO PROJECT BENCH MARK FOR INFORMATION.

#### 6. DIMENSIONS:

ALL DIMENSIONS ARE HORIZONTAL UNLESS OTHERWISE NOTED ON PLANS, AND MEASURED AT NORMAL TEMPERATURE (68 F).

#### 7. YEAR PLATE:

DATE OF CONSTRUCTION IS REQUIRED AT RIGHT SIDE OF STRUCTURES, SEE STANDARD PLAN YP-01.

#### 8. CONCRETE:

UNLESS NOTED OTHERWISE, CONCRETE SHALL BE CLASS A(M) PER SECTION 805 OF LADOTD SPECIFICATIONS WITH A MIN. 28 DAYS COMPRESSIVE STRENGTH f' = 4,700 PSI (SEE TECH. SPECS.)

ALL SUPERSTRUCTURE CONCRETE TO BE CLASS "AA(M)", ALL PRECAST PRESTRESSED MEMBERS TO BE CLASS "P" OR "P(M)" CONCRETE UNLESS OTHERWISE SPECIFIED IN THE PLANS. CHAMFER ALL EXPOSED EDGES OF CONCRETE 3/4" EXCEPT ALL CORNERS OF BENTS WHICH SHALL BE CHAMFERED 1 1/2" UNLESS OTHERWISE NOTED. NO DEDUCTIONS ARE TO BE MADE IN CONCRETE QUANTITIES FOR CHAMFERS 1 1/2" OR LESS.

#### 9. STRUCTURAL METALWORK:

UNLESS OTHERWISE INDICATED IN THE PLANS, ALL STRUCTURAL STEEL AND MISCELLANEOUS STEEL SHALL BE STRUCTURAL CARBON STEEL IN ACCORDANCE WITH ASTM A36. ANY INCESSARY SUBSTITUTION MUST HAVE PRIOR APPROVAL OF THE PROJECT ENGINEER.

ALL SQUARE HOLLOW STRUCTURAL STEEL SECTIONS SHALL HAVE A MINIMUM YIELD STRENGTH Fy=46 KSI AS SPECIFIED IN ASTM A 500 STANDARD GRADE B.

ALL STEEL PIPE SHALL BE ASTM A53. ALL STEEL PIPE SHALL BE SCHEDULE 40 THICKNESS LINLESS OTHERWISE NOTED

#### 10. PILES:

ALL PILE REQUIREMENTS INCLUDING SIZE, TYPE AND MAXIMUM DESIGN LOAD SHALL BE AS DESCRIBED ON THE PLANS OR IN THE SPECIAL PROVISIONS. COMPRESSION TENSION

#### TREATED TIMBER PILE:

8 TONS 5.5 TONS

CLASS "B" TREATED TIMBER PILE. 12" Ø BUTT, 7" TIP (60' LONG)

THE CONTRACTOR SHALL PROVIDE A TEST PILES AND THE TEST PILE PROGRAM IN ACCORDANCE WITH THE SPECIFICATIONS AT THE LOCATIONS SHOWN ON THE PLANS.

TIMBER PILES SHALL MET AND BE TREATED IN ACCORDANCE WITH SECTION 1014 OF THE LADOTD BLUE BOOK SPECIFICATIONS.

#### 11. PRECAST BRIDGE PANELS:

- A. DESIGN & MANUFACTURE OF PRECAST CONCRETE MEMBERS SHALL BE BY WASKEY BRIDGES, INC. OR APPROVED EQUAL ALTERNATE DESIGN. FABRICATION TRANSFER AND ERECTION SHALL CONFORM TO THE LATEST ACI AND PCI CODES AND ACI HANDBOOK
- B. DESIGN CALCULATIONS AND SHOP DRAWINGS ARE TO BE PREPARED AND SEALED BY PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF LOUISIANA. SHALL BE A CURRENT SUBMITTED TOGETHER TO THE PROJECT ENGINEER FOR REVIEW. FABRICATE FROM APPROVED DRAWINGS ONLY. INCLUDE REQUIRED STRENGTH OF ANY STRUCTURAL TOPPINGS, CAMBER PER MANUFACTURER'S RECOMMENDATIONS IS SUBJECT TO APPROVAL BY THE PROJECT ENGINEER, CAMBERS MUST BE SHOWN ON SHOP DRAWINGS.
- C. THE PRECAST DESIGNER SHALL DESIGN. FURNISH AND INSTALL ALL CONNECTIONS AND HEADERS REQUIRED TO ATTACH PRECAST MEMBERS: UNLESS NOTED OTHERWISE ON THE DRAWINGS. PRECASTER SHALL FURNISH ALL OPENINGS, BLOCKOUTS, INSERTS ETC. REQUIRED IN THE PRECAST MEMBERS. REINFORCE ENDS OF MEMBERS TO PREVENT CRACKING DUE TO VOLUME CHANGES.

#### 12. WELDING:

WELDING OF ALL STRUCTURAL STEEL AND STEEL PIPE SHALL CONFORM TO AWS PUBLICATION D1.1 "STRUCTURAL WELDING CODE".

ALL WELDS THAT ARE TO BE MADE ON ANY STRUCTURAL STEEL MEMBERS SHALL BE ONLY AS SHOWN IN THE STRUCTURAL STEEL SHOP DRAWINGS, AND SUBJECT TO APPROVAL BY THE DESIGN ENGINEER. "ALL WELDS" IS DEFINED AS ANY WELD PLACED FROM INITIATION OF FABRICATION TO FINAL ACCEPTANCE INCLUDING FABRICATION TRANSPORTATION, ERECTION AND CONSTRUCTION, ALL WELDS SHALL BE CONTINUOUS.

#### 13. REINFORCING STEEL:

DIMENSIONS RELATING TO REINFORCING STEEL FABRICATION ARE OUT TO OUT OF BAR UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO REINFORCING STEEL SPACING ARE CENTER TO CENTER OF BAR. THE MINIMUM COVERING FROM THE SURFACE OF THE CONCRETE TO THE FACE OF ANY DEFORMED REINFORCING BAR SHALL NOT BE LESS THAN THE FOLLOWING:

TOP OF SLAB= 2";

BOTTOM OF SLAB= 1".
NO EPOXY COATED STEEL IS REQUIRED ON THIS

REINFORCING STEEL SHALL HAVE A MINIMUM YIELD STRENGTH (Fy) OF 60,000 PSI & MEET ASTM A615.

ALL BENDS OF REINFORCEMENT AND ALL BAR SPACERS AND SUPPORTS SHALL BE IN ACCORDANCE WITH SP-66, AMERICAN CONCRETE INSTITUTE DETAILING MANUAL-1994

REINFORCING BAR DESIGNATION NUMBERS CONFORM TO THE NUMBERING SYSTEM OF THE CONCRETE REINFORCING STEEL INSTITUTE. REINFORCING BARS SHALL BE CONTINUOUS AT ALL CORNERS UNLESS OTHERWISE NOTED. REINFORCEMENT, WHERE NECESSARY TO AVOID OPENING, PIPES, EMBEDDED ITEMS AND OTHER OBSTRUCTIONS, SHALL BE BENT OR SHIFTED AS DIRECTED BY THE PROJECT ENGINEER.

#### 14. BOLTED CONNECTIONS:

ALL FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS CONFORMING TO ASTM A-325 ALL BOLTS NUTS & WASHERS SHALL BE HOT DIP CALVANIZED.

BOLT SPACING SHALL BE IN ACCORDANCE WITH DESIGN DRAWINGS, SHOP DRAWINGS. AND THE REQUIREMENTS OF DESIGN SPECIFICATIONS, UNLESS OTHERWISE SHOWN.

BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER HIGH STRENGTH BOLTS. ONE STANDARD OR LOCKING WASHER WILL BE REQUIRED BENEATH THE TURNING ELEMENT. BOLTED CONNECTIONS ARE DESIGNED AS FRICTION TYPE. ALL STEEL SHALL BE SO POSITIONED IN THE MEMBERS OR SPLICE PLATES SO AS TO PLACE THE DIRECTION OF FINISH ROLLING PARALLEL TO THE DIRECTION OF PRIMARY STRESS.

#### 15. GALVANIZED STEEL:

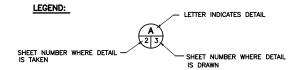
ALL MISCELLANEOUS HARDWARE WHICH IS SPECIFIED TO BE GALVANIZED SHALL BE COATED IN ACCORDANCE WITH ASTM A-153.

ALL STRUCTURAL STEEL SHAPES WHICH ARE SPECIFIED TO BE GALVANIZED SHALL BE COATED IN CONFORMANCE WITH ASTM A-123 AFTER FABRICATION.

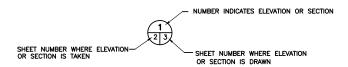
DAMAGED GALVANIZED COATS THAT ARE NOT TO BE EMBEDDED IN MORE THAN THREE (3) INCHES OF CONCRETE SHALL BE REPAIRED WITH COLD APPLIED ZINC RICH ORGANIC PAINT OR OTHER APPROVED METHOD OF REPAIR.

#### 16. CONSTRUCITON LOADING:

CONSTRUCTION LOADING FOR THE NEW ACCESS BRIDGE SHALL NOT EXCEED 100 PSF. THE BRIDGE DESIGN IS FOR HS-10 LOADING AND SHALL NOT BE USED FOR HEAVY EQUIPMENT LIVE LOAD ON THE BRIDGE DECK DURING ERECTION OF THE PRECAST CONCRETE DECK PANELS. THE CONTRACTOR SHALL SUBMIT THE ERECTION PLAN FOR THE PRECAST CONCRETE PANELS WITH THE CONSTRUCTION LOADING NOT TO EXCEED 80 PSF.



#### DETAIL CROSS REFERENCE



#### SECTION CROSS REFERENCE

## DEVELOPMENT LENGTH & LAP SPLICE TABLE (FOR 2" MIN. COVER)

242		UNC	DATED
BAR SIZE	LAP CLASS	TOP	OTHER
#4	Α	25	19
#*	В	32	25
#5	A	31	24
#5	В	40	31
#6	A	37	29
#0	В	48	37
#7	A	54	42
# /	В	70	54
#8	Α	62	48
#0	В	80	62
#9	A	70	54
#9	В	91	70
#10	Α	79	61
#10	В	102	79
#11	Α	87	67
π!!	В	113	87

LAP SPLICE LENGTHS ARE MULTIPLES OF TENSION DEVELOPEMENT LENGTHS; CLASS A =  $L_d$  AND CLASS B =  $(1.3)L_d$ 

TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 in. OF CONCRETE CAST BELOW THE BARS.

#### 17. PERMIT REQUIREMENTS:

CONTRACTOR SHALL STRICTLY FOLLOW ALL USACE PERMIT REQUIREMENTS AND SHALL STOP PILE DRIVING OR EXCAVATION WHEN THE RIVER WATER LEVEL IS AT EL. 11.00 OR HIGHER ON THE CARROLITON GAUGE.

ALL STRUCTURES, FACILITIES, WELL AND PIPELINES/FLOWLINES OCCURRING IN OPEN WATER AREAS OR IN OLIFIELD CANALS OR SLIPS SHALL BE REMOVED WITHIN 120 DAYS OF ABANDONMENT OR THE FACILITIES FOR THE HEREIN PERMITTED USE UNLESS PRIOR WRITTEN APPROVAL TO LEAVE SUCH STRUCTURES IN PLACE IS RECEIVED FROM THE COASTAL MANAGEMENT DIVISION. THIS CONDITION DOES NOT PRECLUDE THE NECESSITY FOR REVISING THE CURRENT PERMIT OR OBTAINING A SEPARATE COASTAL USE PERMIT, SHOULD ONE BE REQUIRED.

STRUCTURES SHALL 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

AS-BUILT DRAWINGS WILL BE SUBMITTED WITHIN 30 DAYS OF COMPLETION OF THIS PROJECT TO THE LOUISIANA DEPARTMENT OF NATURAL RESOURCES, OFFICE OF COASTAL MANAGEMENT, P. O. BOX 44487, BATON, ROUGE, LA 70804-4487.

Burk-Kleinpeter, Inc. Engineers, Architects, Planners, Environmental Scientist 4176 Canal Street, New Orleans Louisiana 70119

FEMA PW16844 ST. BERNARD PARISH 90% RAW WATER INTAKE ACCESS BRIDGE PRELIMINARY BURK-KLEINPETER, INC. NOT TO BE USED FOR CONSTRUCTION, GENERAL NOTES CONSTRUCTION, BIDDING, RECORDATION, CONVEYANCE, SALES OR AS THE BASIS FOR THE ISSUANCE OF A PERMIT. DESIGNED RM MCE PRES SCALE AS SHOWN LA. LICENSE #: 17937 REVIEWER DATE 04/2015 DATE: JUNE. 2015

2.0 IO.14.044 DETALED BL

## TABLE OF ESTIMATED QUANTITIES

ITEM	ITEM	UNIT	QUANTITY
S-001	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1
S-002	CONSTRUCTION LAYOUT	LUMP SUM	1
S-003	CLEARING AND GRUBBING	ACRE	0.75
S-004	REMOVAL AND DISPOSAL OF 1 1/2" STEEL GUARDRAIL	LF	1,640
S-005	REMOVAL AND DISPOSAL OF 4" THICK PRECAST CONCRETE PANELS	SF	8,200
S-006	REMOVAL AND DISPOSAL OF STRUCTURAL STEEL	TON	73.80
S-007	REMOVAL AND DISPOSAL OF TIMBER LATERAL BRACING	LF	1,312
S-008	REMOVAL AND DISPOSAL OF TREATED TIMBER PILES	EA	80
S-009	REMOVAL AND DISPOSAL OF WOODEN CURB	LF	1,800
S-010	REMOVAL AND DISPOSAL OF EXISTING CONCRETE CURB AND DECK SLAB	LF	15
S-011	REMOVAL AND DISPOSAL OF EXISTING STEEL VEHICULAR GUARDRAIL	LF	15
S-012	REMOVAL AND DISPOSAL OF EXISTING CONDUITS	LF	900
S-013	FURNISH AND INSTALL CLASS "B" TREATED TIMBER TEST PILE (60' LONG)	EA	1
S-014	FURNISH AND INSTALL CLASS "B" TREATED TIMBER PILES (60' LONG)	LF	5,280
S-015	FURNISH AND INSTALL TREATED TIMBER LATERAL BRACING	EA	46
S-016	FURNISH AND INSTALL PRECAST CONCRETE PILE CAPS	EA	45
S-017	FURNISH AND INSTALL 8" THICK PRECAST CONCRETE PANEL	SF	8,310
S-018	FURNISH AND INSTALL 1 1/2" DIA. GALV. STEEL GUARDRAIL	LF	1,770
S-019	ELECTRICAL LIGHTING - ROADWAY LUMINAIRES	EA	44
S-020	REMOVAL AND DISPOSAL OF LIGHT AND UTILITY POLES	EA	10
S-021	REMOVAL AND DISPOSAL OF 1" WATER LINE	LF	625
S-022	REMOVAL AND DISPOSAL OF SHED STRUCTURE	EA	1
S-023	REMOVAL AND DISPOSAL OF PILE CLUSTERS	EA	3
S-024	REMOVAL AND DISPOSAL OF PUMP, PLATFORM AND PIPING	EA	1
S-025	FURNISH AND INSTALL METAL BRIDGE	SF	60

REV.	DATE	DESCRIPTION	BY

Burk-Kleinpeter, Inc.
Engineers, Architects, Planners, Environmental Scientists
4178 Canal Street, New Orleans Louisiana 70119

FEMA PW16844 ST. BERNARD PARISH RAW WATER INTAKE ACCESS BRIDGE

SUMMARY OF QUANTITIES

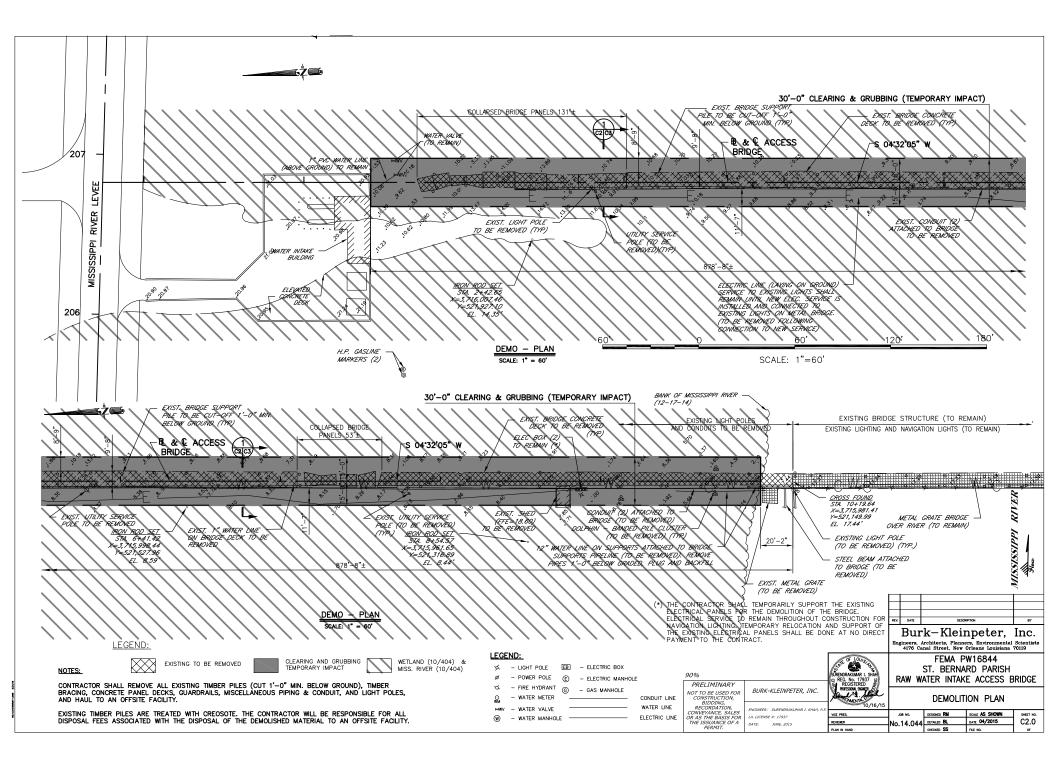
SHEET NO. 2.1

MKELIMINAKY
NOT TO BE USED FOR
CONSTRUCTION,
REDDISON,
CONVEYANCE, SALE
OR AS THE BASIS FOR
THE ISSUANCE OF A
PERMIT NO. 14.044 DESIGNED RM SCALE AS SHOWN

NO. 14.044 DETAILED BL DATE 04/2015 REVIEWER

90% PRELIMINARY

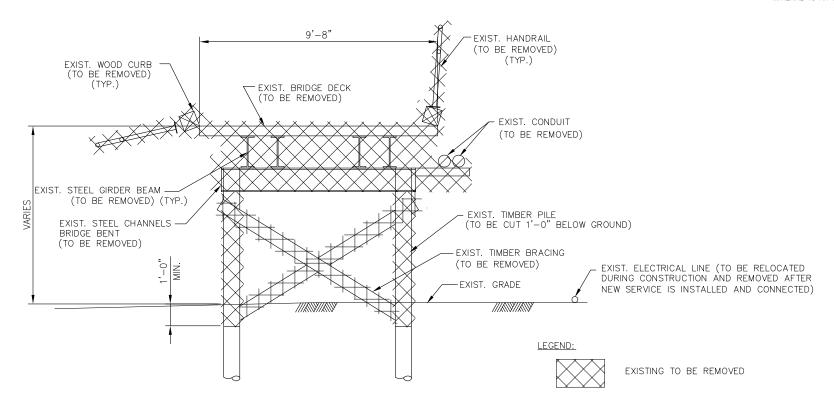
BURK-KLEINPETER, INC.



#### NOTES:

CONTRACTOR SHALL REMOVE ALL EXISTING TIMBER PILES (CUT 1'-O" MIN. BELOW GROUND), TIMBER BRACING, CONCRETE PANEL DECKS, GUARDRAILS, MISCELLANEOUS PIPING & CONDUIT, AND LIGHT POLES, AND HAUL TO AN OFFSITE FACILITY.

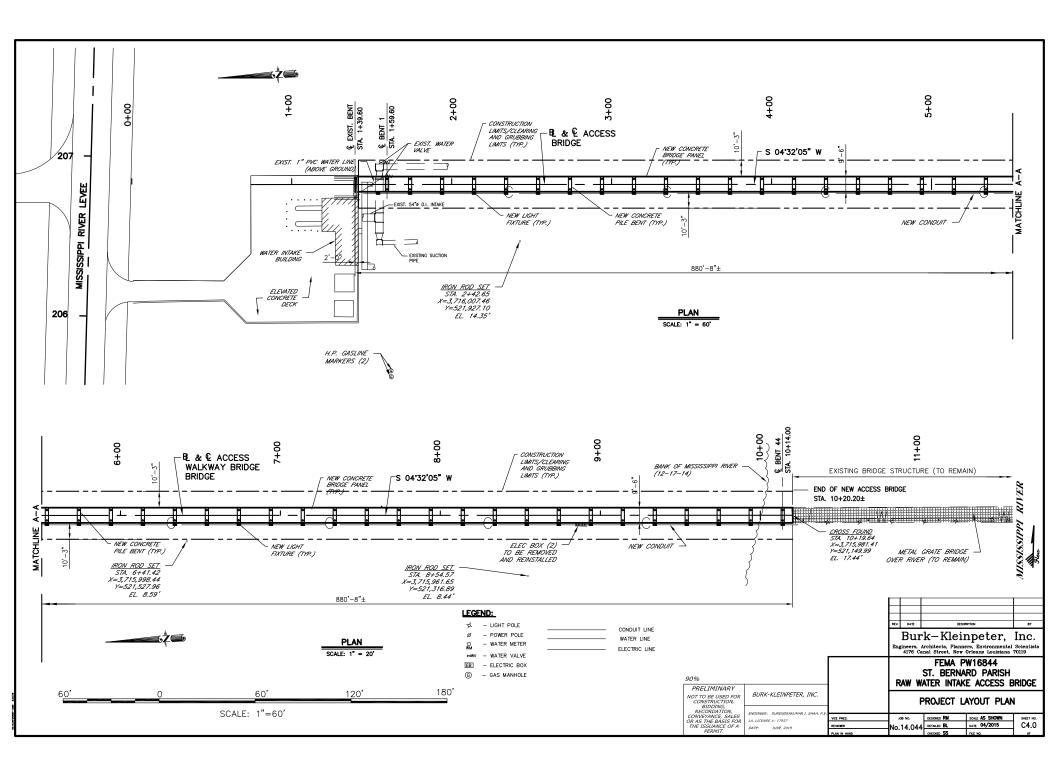
EXISTING TIMBER PILES AND TIMBER BRACING ARE TREATED WITH CREOSOTE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL DISPOSAL FEES ASSOCIATED WITH THE DISPOSAL OF THE DEMOLISHED WATERIAL TO AN OFFSITE FACILITY.

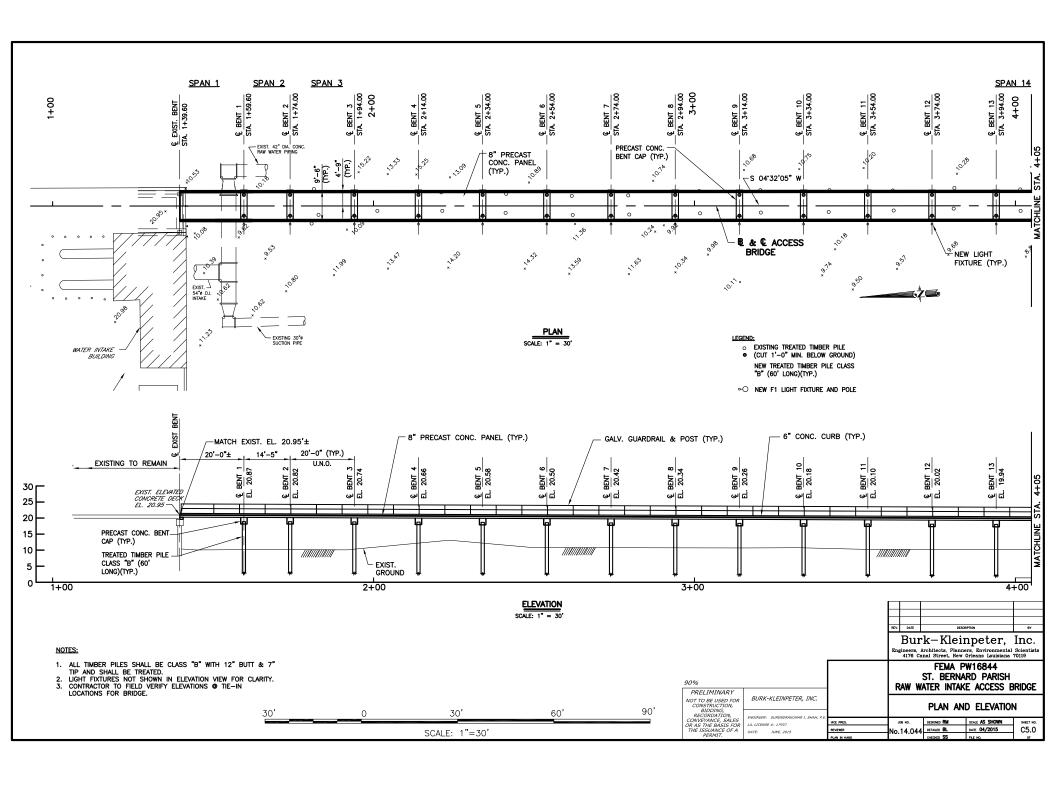


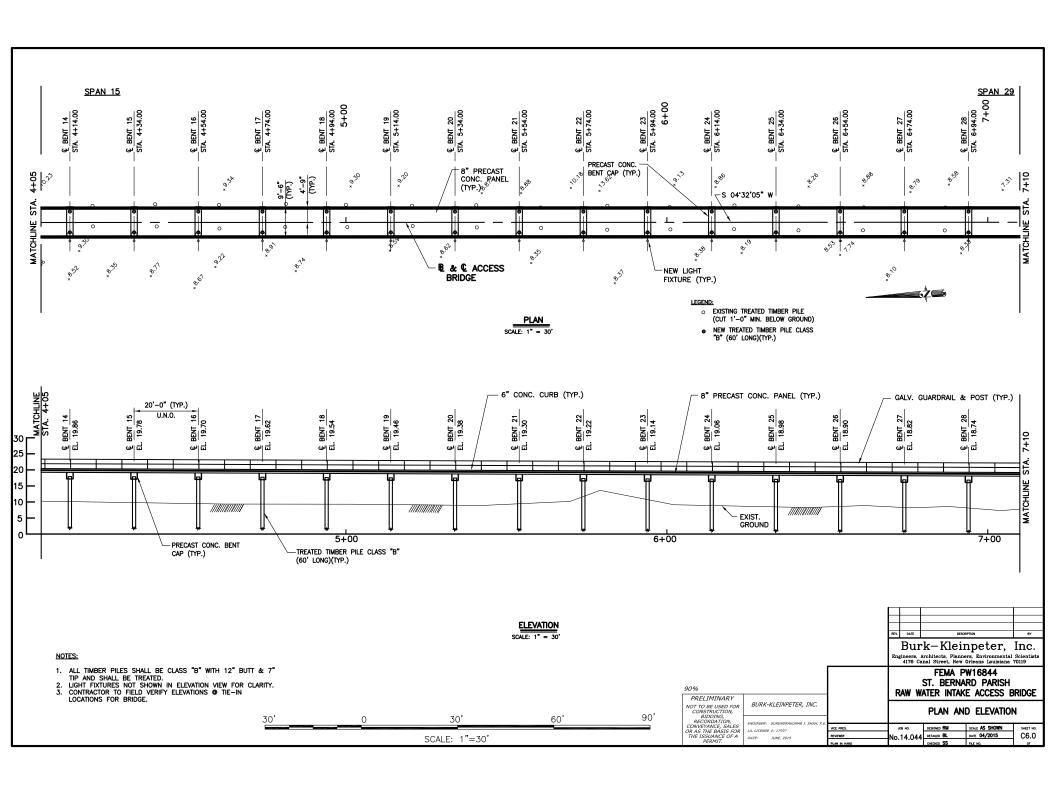
TYP. SECTION 1 SCALE: 1/4" = 1'-0" C2 C3

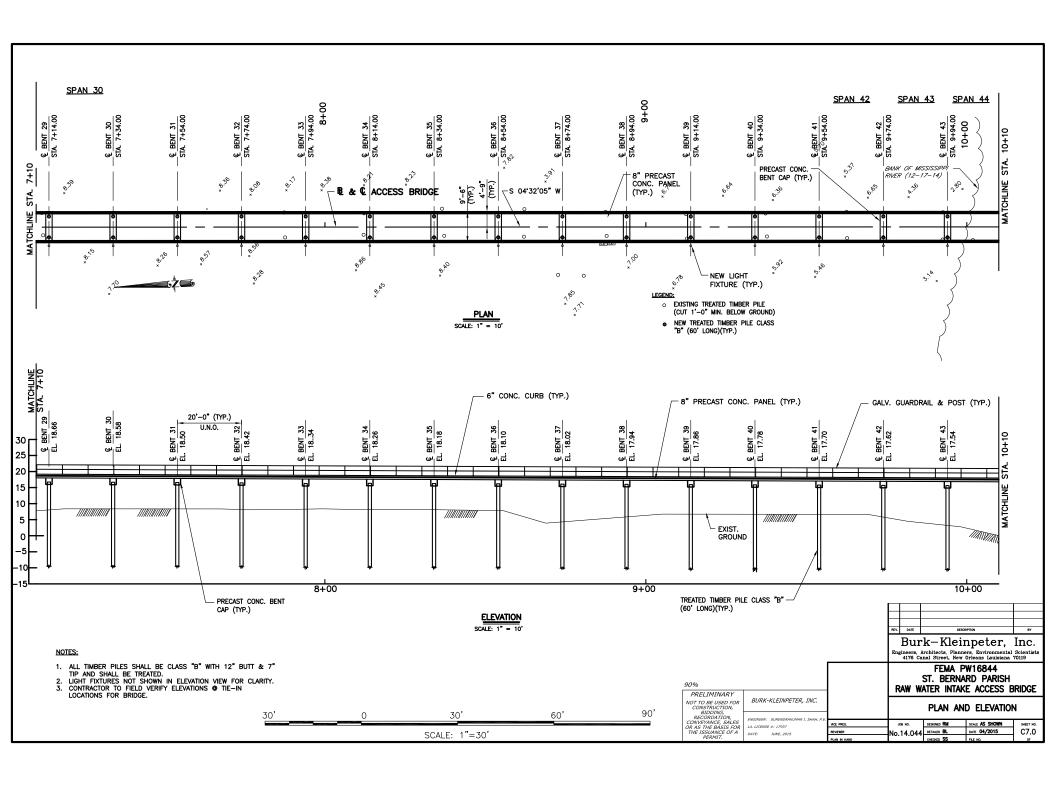
			Engineers, A	rchitects, Planne	npeter, ers, Environmental Orleans Louisiana	Scientists
90% PRELIMINARY				ST. BERNA	W16844 RD PARISH E ACCESS E	RIDGE
NOT TO BE USED FOR CONSTRUCTION, BIDDING, RECORDATION,	BURK-KLEINPETER, INC.			DEMOLIT	ION SECTIO	N
CONVEYANCE, SALES OR AS THE BASIS FOR	ENGINEER: SURENDRAKUMAR I. SHAH, P.E. LA. LICENSE #: 17937	MCE PRES.	J08 NO.	DESIGNED RM	SCALE AS SHOWN	SHEET NO.
THE ISSUANCE OF A	DATE: JUNE 2015	REVIEWER	No.14.044	DETAILED BL	DATE 04/2015	C3.0
PERMIT.	DATE: 30HC, 2023	PLAN IN HAND	1.10 1.011	CHECKED SS	FILE NO.	OF.

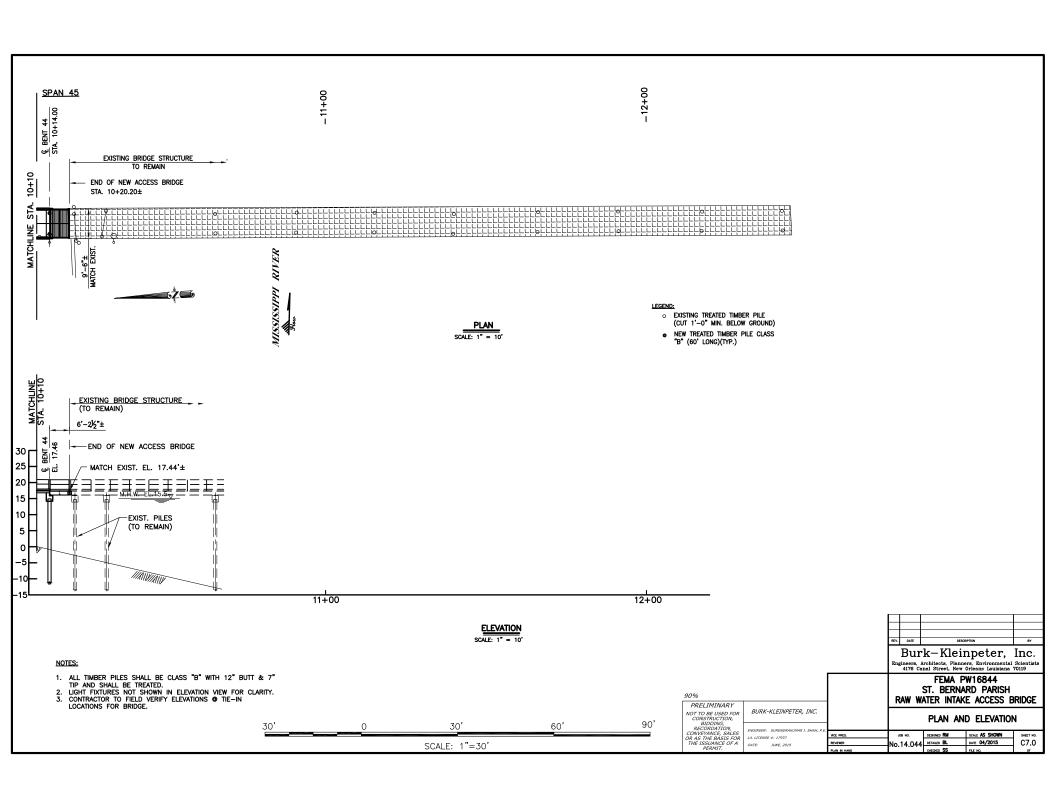
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		SCALE: 1/4"=1'-0"	•	

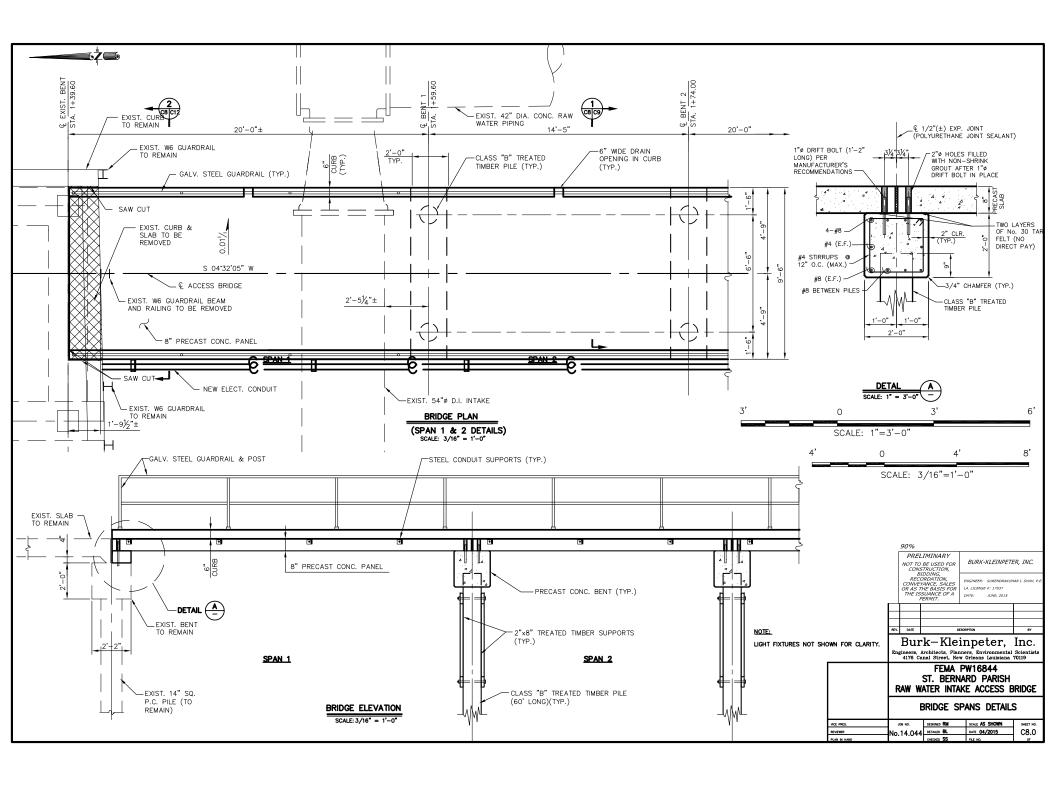


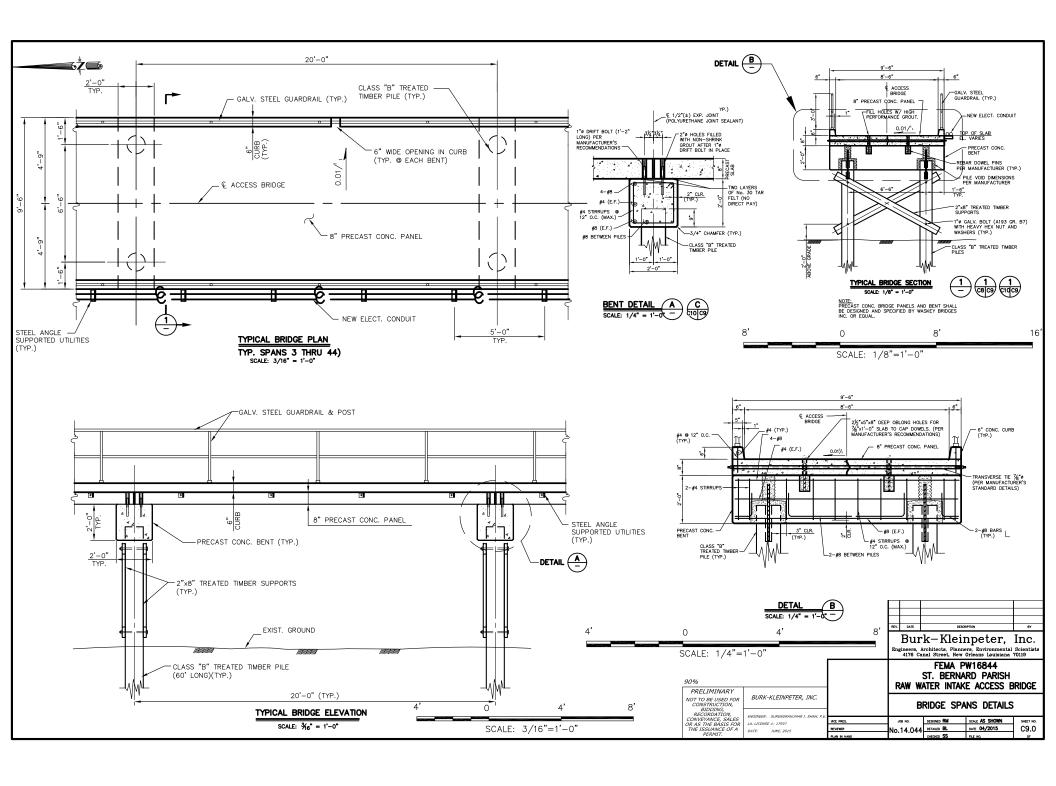


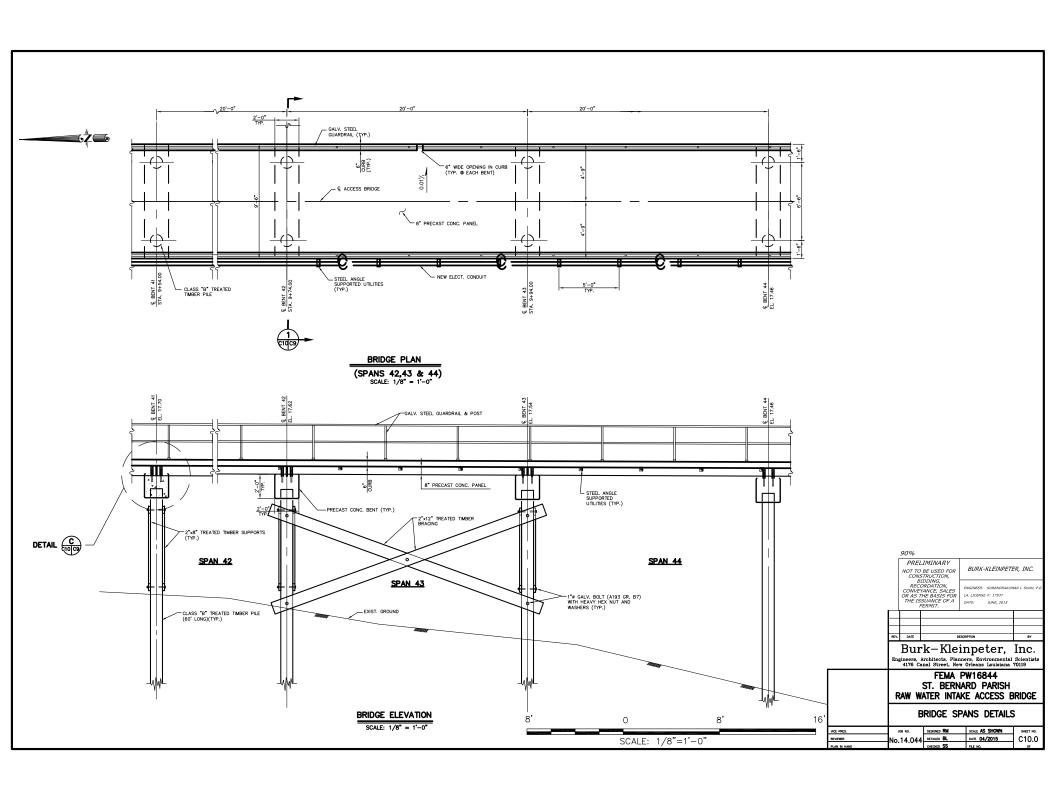


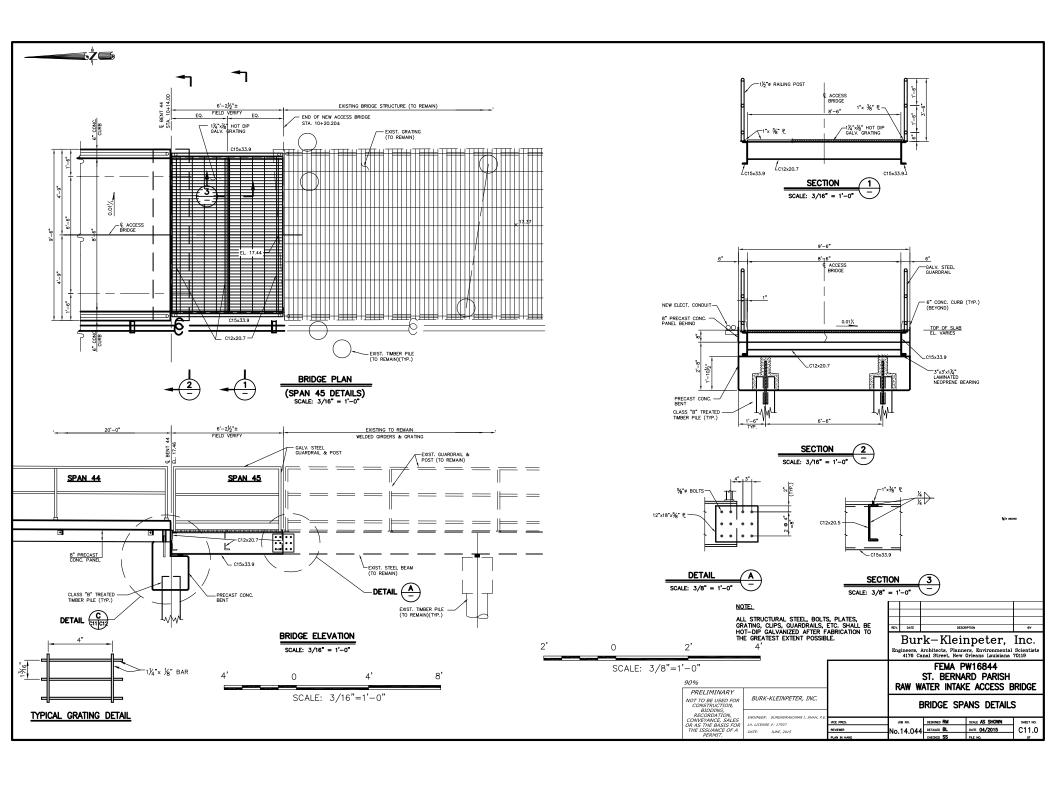


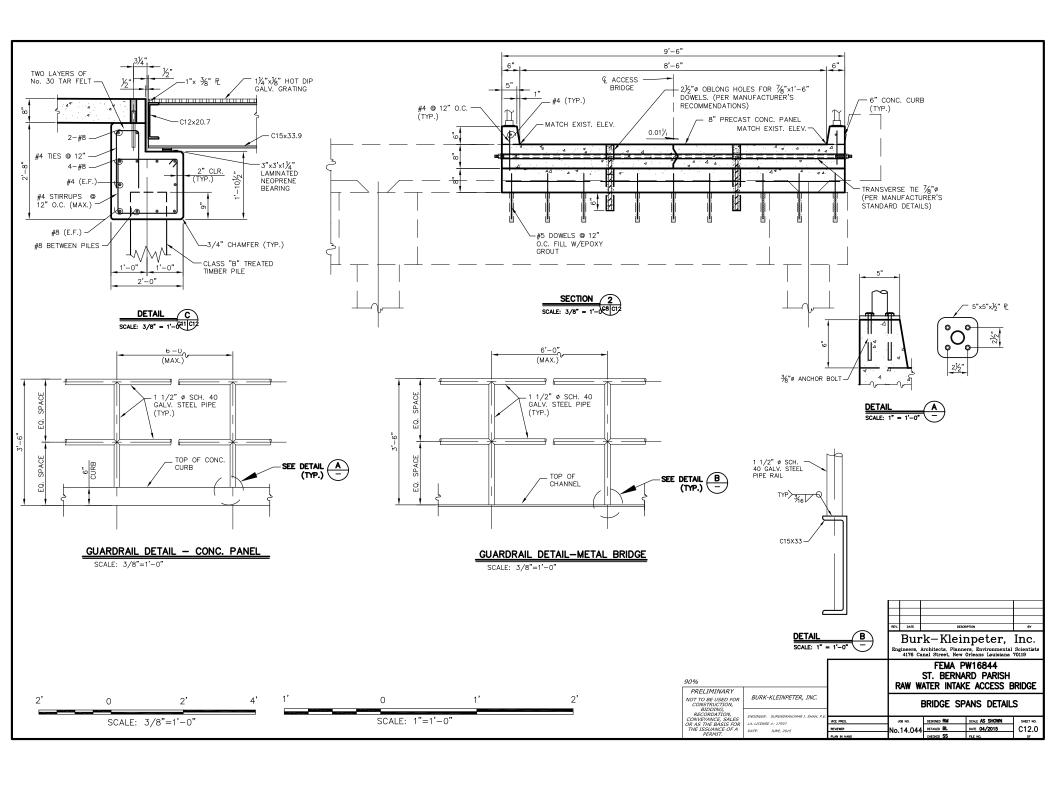


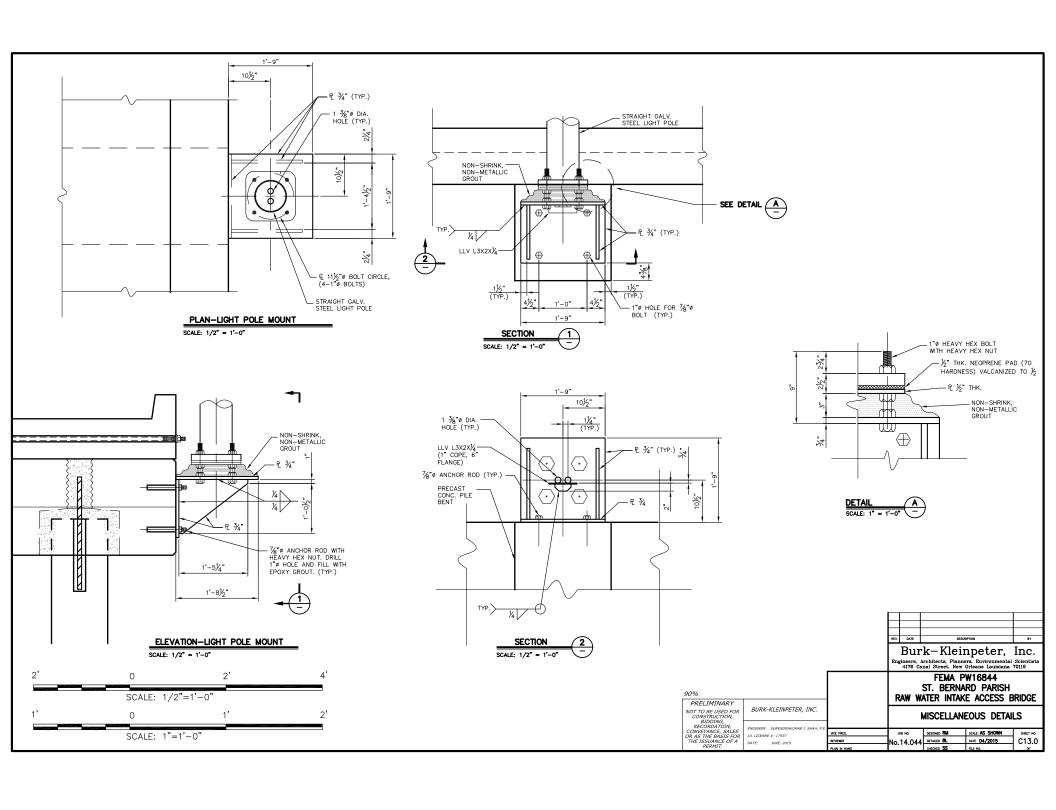












LOCA	L NAM		PANEL P1	- \	VOLTAGE	PAN 240/	′120\	V. 19	Ø 3W	CH	EΙ	UL	E	ENCLOSURE MEMA1 DNEMA3R DO LOCKABLE COVER DO TOP BOTTOM	NEMA12	NEMA STAIN STEEL	4X LESS
			NOE3	-		_ 200,		., .,						BRANCHES OX BOLT-ON, PANELBOAR  STAB-IN, LOAD CENTE	D CONSTR.		
	FROM			- N	MAINS,		)							FUSIBLE SWITCHES W/ C	K CUNSIK. LASS R FUSI ASS RK5 20	REJ.	CLIPS,
AVAI	LABLE	FAULT	CURRENT SYM. AM	IPS		☐ FACT ☐ SHUN ☐ MAIN	NT TR	RIP N	MAIN		BKE	KER		PANEL HAS FRONT ACCESS ONLY ALL COPPER BUSSING			
PANE	L AIC	RATING	G 22 KAIC				ISTEL	) FFF	FD-TI	HRU	LUGS	ISH FII	SFS.	FURNISH COPPER GROUND BAR KIT			
	FULLY		D FOR KAIC FROM			□ MAIN ≤ 60 ALL	OA, RATEI	CLAS D 20	S RK	(5, ') O AIC	600A	, CLAS	5 L,	ALSO FURNISH ADDITIONAL ISOLATED     SERVICE ENTRANCE LABEL	GROUND BA	R KII	
						□ LIGHT	NING	ARRE	STOR	WIRE	ED TO	LOAD S	IDE OF R EQUAL	USE 1/8" LETTERING FOR PANEL N	AME, ON 1 MPS. WHER	LINE	FROM.
FEED	ER				NEUTRAL MOUNTING				00% <b>×</b>	MCC				MO./YR. INSTALLED, ON 4 LII ME BLACK FIELD, WHITE LETTERS	NES		
			DTECTED BY OVERCURRENT DEVICE		MOUNTING		FLUS			WICC				□ RED FIELD, WHITE LETTERS			
	# OF POLES	TRIP AMPS	LOAD DESCRIPTION		VO A	T-AMPS	L T S	R N E I C S		I Z	R L E T C S	VOLT A	-AMPS	LOAD DESCRIPTION	TRIP AMPS	# OF POLES	CKT.
3	1	20	RAW WATER PUMP 1 CONTROL RAW WATER PUMP 3 CONTROL	PANEL PANEL				Ŧ		ĪΠ	Ħ			RAW WATER PUMP 2 CONTROL PANEL PUMP ROOM GFI	20	1	2
5	1	20	PUMP HOUSE INSIDE LIGHTING ELECTRICAL ROOM INSIDE LIGHT		770	640		ļ	1	ŀĦ				PUMP ROOM GFI ELECTRICAL ROOM GFI	20	1	6
9	1	30	FUEL RECIRCULATION PANEL	1110	100			t	╁	$\mathbb{H}$				ELECTRICAL ROOM GFI	20	1	10
11 13	1	20						+	廿	H					20	1	12
15 17	1	20						ļ	1	ŀĦ					20	1	16
19	1	20						±	ıΠ						20	1	20
21 23	1	20						+	╁	H	-				20	1	22
25 27	1	20						Ŧ	1	Ē				SPARE	20 15	1 2	26 28
29	1	20			- \$				1	H							30
31 33	2	30	LIGHTING CONT. LC-1 (OUTDOO	R LIGHTS	S)			+	╁	H				SPARE	20	2	32 34
35 37	2	20	TRANSFORMER T-2		1500	1500		$\blacksquare$	₽					HVAC - ELECTRICAL ROOM	40	2	36 38
39 41		125	WALKWAY TO RIVER FEEDER						∄	ŀĦ				GENERATOR G-1 PANEL	60	2	40
			IF FUSIBLE SWITCHES SUBT	DTAL ODD					TAL E								42
						$\smile$	7 FEE	SUBTO ED—TI	OTAL HRU I	odd Lug	SIDE			FROM PANEL			
								TOTA	AL CO	NN.	LOAD			= KVA			
														= AMPS			
EMARI	KS:																
REMARI		1#6(G	s), 2°C.														
		1#6(G	s), 2°C.														
		1#6(G	s), 2°C.														
		1#6(G	s), 2°C.														
		1#6(G	s), 2°C.														
		1#6(G	s), 2°C.														
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		1#6(G	s), 2°C.														
		1#6(G	s), 2°C.														
		1#6(G	s), 2°C.														
		1#6(G	s), 2°C.														
		1#6(Q	s), 2°C.														
		1#6(Q	s), 2°C.														
		1#6(G	s), 2°C.														
		1#6(G	s), 2°C.														
		1#6(G	s), 2°C.														

	LIGHTING FIXTURE SCHEDULE										
TYPE	MANUFACTURER & CATALOG No.	DESCRIPTION	LAMP QTY.	LAMP DESCRIPTION	VOLTS	WATTS					
F1	GE H2U-0-17P-6J-FG-Q-U-DOME	FILTE GLARD, PULSE MH, ULBA4, ULTSB OUTDOOR SALT WATER, CLASS 1, DMISION 2, 1½" ANGLE STANDION, DOME REFECTOR, TIME DELAY AUTOMATICALLY SWITCHED QUARTZ, 10" ROUND STRAIGHT STEEL POLE, HOT DIP CALVANIZED WITH 8" BASE DIA. (GENERAL STRUCTURES, NC., COOPER OR EQUAL) WITH PIXTURE MOUNTING ADAPTER.	1	МН	240	175					

#### FIXTURE SCHEDULE NOTES:

- PROMDE A SET OF FOUR (4) 1" DIAMETER ANCHOR BOLTS FOR EACH LIGHT FIXTURE AND POLE.
   STRAIGHT STEEL POLE SHALL BE RATED FOR 150 MPH 3 SECOND GUST INCLUDING THE WEIGHT OF THE FIXTURES AND BRACKET. SPECIFIED LUMINAIRES WEIGH APPROXIMATELY 25 LBS EACH WITH A 1.4 CUBIC FT EPA AT A 25 DEGREE AMINIG ANGLE.
   LUMINARIES SHALL HAVE AN IDENTIFIED GROUNDING CONDUCTOR FROM HEAD TO POLE GROUNDING CONDUCTOR.
- 4. CONTRACTOR TO PROVIDE PHOTOMETRIC CALCULATION FOR ALL AREAS ILLUMINATED BY THIS LUMINAIRE TYPE. PROVIDE CALCULATIONS POINT ON 5'

### **GENERAL NOTES:**

- 1. ALL ELECTRICAL EQUIPMENT AND THE RESULTANT INSTALLATION OF SUCH EQUIPMENT, DEVICES, ETC., SHALL BE IN STRICT COMPLIANCE WITH THE 2011 NATIONAL ELECTRIC CODE (NFPA 70), 2012 NATIONAL ELECTRICAL SAFETY CODE (NFPA 70E), AND ALL APPLICABLE STATE AND FEDERAL CODES.
- 2 DRAWINGS AND SPECIFICATIONS FORM A COMPLETE SET OF DOCUMENTS FOR THE WORK IN THIS PROJECT. NEITHER IS COMPLETE WITHOUT THE OTHER, ANY ITEM MENTIONED IN ONE SHALL BE BINDING AS MENTIONED IN BOTH.
- CONTRACTOR SHALL TAKE RESPONSIBILITY FOR FIELD VERIFICATION OF ALL DIMENSIONS AND LOCATIONS OF EXISTING, RELOCATED, AND NEW EQUIPMENT, AND SHALL BE RESPONSIBLE FOR COORDINATION WITH THE WORK OF OTHER TRADES NECESSARY TO THE PROJECT.
- 4. THESE DRAWINGS ARE INTENDED TO OUTLINE THE SCOPE OF WORK REQUIRED TO PROVIDE A COMPLETE AND OPERABLE PROJECT CONCLUSION. ALL MISCELLANEOUS COMPONENTS, PARTS, FASTENERS, SPLICES, AND OTHER INCIDENTAL ITEMS NECESSARY TO PROVIDE A COMPLETED PROJECT SHALL BE PROVIDED WHETHER OR NOT SPECIFICALLY NOTED.
- 5. ALL CONNECTIONS TO EXISTING POWER, AND ALL TESTING SHALL BE DONE WITH THE ASSISTANCE AND GUIDANCE OF OWNER,
- 6. ALL BRANCH CIRCUITS REQUIRING NEUTRAL AND GROUND CONDUCTORS SHALL HAVE DEDICATED NEUTRAL AND GROUND CONDUCTORS INSTALLED.
- 7. CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY OF ANY CONFLICTS ARISING FROM DISCOVERED CONDITIONS AT ANY PHASE OF THE PROJECT.
- 8. CONTRACTOR SHALL NOTIFY OWNER AT LEAST 2 WEEKS IN ADVANCE OF ANY WORK WHICH SHALL, OR REASONABLY COULD, RESULT IN OUTAGE OF POWER OR COMMUNICATIONS.
- 9. CONTRACTOR SHALL KEEP A CURRENT SET OF AS-INSTALLED DRAWINGS DOCUMENTING FIELD MODIFICATIONS, CHANGES, EXACT SUBSURFACE UTILITY ROUTINGS, ETC. TO BE TURNED OVER TO OWNER UPON PROJECT COMPLETION.
- 10. ALL EXTERIOR JUNCTION/PULL BOXES SHALL BE NEMA 4X.
- 11. AT ANY LOCATION WHERE EXCAVATION OR ASSOCIATED WORK CAUSES DAMAGE TO THE GROUNDING GRID, CONTRACTOR SHALL RESTORE CONNECTIONS AND GRID TO LIKE-NEW STATE.
- 12. CONTRACTOR SHALL VERIFY ALL FINAL LOCATIONS OF ELECTRICAL EQUIPMENT WITH OWNER.
- 13. CONTRACTOR SHALL PROVIDE ALL NECESSARY PARTS AND LABOR TO INSTALL ELECTRICAL EQUIPMENT.
- 14. REFER TO SPECIFICATION SECTION 16195 FOR EQUIPMENT DESIGNATIONS, LABELING OF ALL ELECTRICAL EQUIPMENT, CIRCUITS, ETC. SHALL COMPLY WITH THE REQUIREMENTS OF THIS SPECIFICATION SECTION 16195. CONTRACTOR SHALL SUBMIT AN EQUIPMENT LABEL TAG LIST FOR OWNER/ENGINEER REVIEW PRIOR TO ORDER AND INSTALLATION OF EQUIPMENT LABELS.
- 15. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED TO IDENTIFY OPERATING VOLTAGE IN COMPLIANCE WITH THE REQUIREMENTS OF SPECIFICATION SECTION 16195 AND OSHA.
- 16. ALL ELECTRICAL EQUIPMENT SUCH AS PANELBOARDS, DISCONNECTS, ETC. SHALL BE LABELED TO IDENTIFY POTENTIAL ELECTRIC ARC FLASH HAZARDS IN COMPLIANCE WITH THE REQUIREMENTS OF NFPA 70E-2012 "STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE" AND ANSI Z535.4.-1998 "PRODUCT SAFETY SIGNS AND LABELS"
- 17. ALL ELECTRICAL EQUIPMENT, CIRCUIT BREAKERS, CIRCUITS, AND CABLES ETC. MUST BE INSTALLED PER CONTRACT DOCUMENTS. NO DEVIATIONS ARE ALLOWED UNLESS WRITTEN APPROVAL IS GRANTEE BY OWNER/ENGINEER. ALL CIRCUIT BREAKERS AND BRANCH CIRCUIT LOADS IN SWITCHBOARDS, PANELBOARDS, CABLES, AND LOADBREAK SWITCHES, MUST BE INSTALLED AS INDICATED ON CONTRACT DOCUMENTS. CONTRACTOR WILL NOT BE ALLOWED TO SUBMIT AS-BUILT DRAWINGS INDICATING FIELD CIRCUIT CHANGES UNLESS PREVIOUSLY APPROVED BY OWNER/ENGINEER.
- 18. CONDUCTORS SHALL BE TYPE THHN/THWN INSULATED COPPER CONDUCTOR AMPACITY BASED ON 75' TEMPERATURE RATING IN RIGID METAL CONDUIT. CONTRACTOR SHALL USE RGS CONDUIT WITH HREADED FITTINGS FOR CONCEALED/EXPOSED INTERIOR LOCATIONS, RGS CONDUIT WITH CAST FITTINGS FOR WET EXTERIOR LOCATIONS, SCHEDULE 40 PVC FOR UNDERGROUND INSTALLATIONS.
- 19. INSTALL ½ STANLESS STEEL, RAINTIGHT, UNIVERSAL DRAIN FOR WATER DRAINAGE IN RACEWAY SYSTEM AT LOW POINT OF EACH RACEWAY INSTALLED. INSTALL DRAINS PRIOR TO TERMINATION OF ELECTRICAL EQUIPMENT OR CONTROLS DEVICE. DO NOT ENTER EQUIPMENT FROM TOP. RACEWAY SHALL BE INSTALLED FROM BELOW EQUIPMENT REQUIRING A RACEWAY TERMINATION.

#### SYMBOL SCHEDULE

	LIGHTING SYMBOLS						
	DESCRIPTION			90			
0~	LUMINAIRE, LETTER DENOTES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.			NO	PRELIMINARY  T TO BE USED FOR  CONSTRUCTION,  BIDDING.	BURK-KLEINPE	TER, INC.
	POWER SYMBOLS			co	RECORDATION, INVEYANCE, SALES AS THE BASIS FOR	ENGINEER: PERRY P.	
	DESCRIPTION				AS THE BASIS FOR HE ISSUANCE OF A PERMIT.	DATE: JULY, 2015	
ㅁ	DISCONNECT SWITCH. FUSED UNLESS OTHERWISE NOTED.						
J 0	JUNCTION BOX.		REV.	DATE	DESCRI		BY
	WIRING SYMBOLS			ineers.	rk-Kleir Architects, Planner	rs. Environmental	Scientists
	DESCRIPTION		_	4176 C	FEMA P	rleans Louisiana	70119
/\	WIRING (IN CONDUIT) RUN EXPOSED.				ST. BERNA	RD PARISH	חחסב
L:1,3	HOMERUN TO PANELBOARD WITH NOMENCLATURE (LETTERS), CIRCUIT NUMBERS (NUMBERS), NUMBER OF CIRCUITS (NUMBER OF ARROWS), EACH CIRCUIT TO HAVE GROUND.				VATER INTAKE EL SCHEDUI FIXTURE S	LE & LIGH	
=	GROUND CONNECTION	VICE PRES.		08 NO.		SCALE AS SHOWN	SHEET NO.
1	1	REVIEWER PLAN IN HAND	Mo.	14.044	+	DATE 07/2015	E1.0

