CONTRACT DOCUMENTS, SPECIFICATIONS AND CONTRACT DRAWINGS

FOR

HUEY P. LONG DECORATIVE LIGHTING 2ND TO 5TH STREETS PROJECT

BKI PROJECT NO: 9344-8350-1

ADDENDUM NO. 2
DATE ISSUED: April 6, 2025

BID CLOSE DATE: APRIL 11, 2025 at 9:45 AM

BID LOCATION: Council Chambers, Gretna City Hall
740 2nd Street, Gretna, LA 70053

This addendum shall be part of the Contract Documents as provided in the Instruction to Bidders.

The following items are issued to add to, modify, and clarify the Contract Documents. These items shall have full force and effect as the Contract Documents, and the cost involved shall be included in the bid prices.

Acknowledge receipt of the addendum by inserting its number on the Bid Form of the Bid Documents. Failure to do so will subject the bidder to rejection.

This Addendum No. 1 consists of 61 pages including all attachments.

UPDATES:

1. Revised bid form is included in response to pre-bid meeting questions received.

2. DZS400BP spec is being issued for reference only. Lighting control cabinet was locked at time of pre-bid meeting. Engineer believes this time clock was installed.

3. Three (3) sets of record/as-built drawings are being provided for contractor's reference.

ATTACHMENTS:

1. Cover (1 sheet).
2. Table of Contents (1 sheet).
3. Pre-bid meeting agenda 04-04-25 (2 sheets)
4. Pre-bid meeting sign-in 04-04-25 (1 sheet)
5. Bid Form 04-06-25 (3 sheets)
6. DZS400BP spec (1 sheet)
7. Downtown Drainage Redlines (35 sheets)
8. Gretna Downtown Drainage Improvements Phase 2 As-builts Revised (7 sheets)
9. Gretna Downtown Drainage Improvements Phase 1-AS-BUILTS (10 sheets)

Huey P. Long Avenue Decorative Lighting 2nd 5th Streets Project

Pre-Bid Meeting Agenda

Friday, April 4, 2025, 1:00 pm, 2nd Street at Huey P. Long Avenue / Council Chambers - Gretna City Hall

BKI Project No.9344-8350-1

I. PROJECT GENERAL INFORMATION

The project includes the installation of underground electrical components and sidewalk paving for decorative lighting between 2nd and 5th Street along Huey P. Long Avenue

The construction duration is 90 calendar days.

II. SIGN-IN SHEET

This pre-bid conference is MANDATORY. However, please sign the official sign-in sheet before you leave at the conclusion of the meeting.

III. BIDDING PROCEDURES AND INFORMATION

Sealed Bids will be received by the City of Gretna, Gretna City Hall, 740 2nd Street, Gretna, LA, 70053, **no later than 9:45 am local time on Friday, April 11, 2025**. All bids received will be publicly opened at 10:00 am, in the council room at City Hall. The Owner reserves the right to reject any and all bids in accordance with the Public Bid Law, and to disregard all nonconforming, nonresponsive, unbalanced or conditional Bids.

The Bidding Documents (the Contract Documents, Specifications, and Drawings) are available for purchase at the office of the Engineer, Burk-Kleinpeter Inc., located at 2400 Veterans Memorial Blvd, Suite 310, Kenner, LA, 70062 or at publicpurchase.com. Phone No. 504-483-6271.

IV. PROJECT WORK HIGHLIGHTS

a. **Underground Electrical Component Installation**
   Install electrical infrastructure only to power decorative lighting. Bases, poles and luminaires will be installed by city personnel.

b. **Concrete Paving**
   Concrete paving of driveways and sidewalks.

V. BIDDER QUESTIONS

All questions are to be addressed in writing directly to the Project Manager and Project Engineer, Burk-Kleinpeter.

Contact info: David Boyd, PE (Project Manager), dboyd@bkiusa.com
504-975-7735 or 504-463-6271

Perry Hogan, PE (Project Engineer), phogan@bkiusa.com

VI. QUESTIONS

Question 1: Will as-built drawings be provided for the 1st-2nd Memorial Park project.

Response: Yes. Refer to Addendum #2.

Question 2: For street light foundations that do not have in-grade hand holes adjacent, what are contractors to do with the copper conductors that will be coiled up at each pole base?

Response: Contractor to install conductors in a properly sized junction box to capture raceway and conceal conductors. Contractor to provide 24" of conductor length per conductor. Conductors shall be terminated in junction box with insulated mechanical multi-tap connectors, 6061-T6 aluminum construction, set-screw, number of ports as required, black insulated, UL Listed, ILSCO PBTS series, POLARIS series, or approved equal.

VII. CONCLUDING REMARKS

Bidders are encouraged to visit the sites along Huey P. Long Avenue and familiarize themselves with existing conditions prior to bidding.

VIII. ADJOURN

Huey P. Long Decorative Lighting 2nd to 5th Streets
Mandatory Pre-Bid Meeting Attendance Record

March 21, 2025
BKI PROJECT NO. 9344-8350

NAME	COMPANY	EMAIL	PHONE
DAVE STOEHR	FRISCHHERTZ	DAVIDS@FRISCHHERTZ.COM	(504) 482-1146
KIRK Boudreaux	Hi-Tech Electric	Kboudreaux@hitechelectric.com	(504) 416-7435
Betsy Morgan	Gretna	bmorgan@gretnala.com	363-1566
PERRY HOGAN	BURK-KLEIN PETER INC.	phogan@bkiusa.com	504-486-5901

LOUISIANA UNIFORM PUBLIC WORK BID FORM

TO: City of Gretna
2nd St. and Huey P. Long Avenue
Gretna, LA 70053
(Owner to provide name and address of owner)

BID FOR: Huey P. Long Lighting 2nd-5th Streets

(*Owner to provide name of project and other identifying information)*

The undersigned bidder hereby declares and represents that she/he; a) has carefully examined and understands the Bidding Documents, b) has not received, relied on, or based his bid on any verbal instructions contrary to the Bidding Documents or any addenda, c) has personally inspected and is familiar with the project site, and hereby proposes to provide all labor, materials, tools, appliances and facilities as required to perform, in a workmanlike manner, all work and services for the construction and completion of the referenced project, all in strict accordance with the Bidding Documents prepared by: Burk Kleinpeter Inc., and dated: January 15,2025.
(Owner to provide name of entity preparing bidding documents.)

Bidders must acknowledge all addenda. The Bidder acknowledges receipt of the following **ADDENDA:** (Enter the number the Designer has assigned to each of the addenda that the Bidder is acknowledging) _____ .

TOTAL BASE BID: For all work required by the Bidding Documents (including any and all unit prices designated "Base Bid" * but not alternates) the sum of:

_____Dollars ($ _____)

ALTERNATES: For any and all work required by the Bidding Documents for Alternates including any and all unit prices designated as alternates in the unit price description.

Alternate No. 1 *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

_____Dollars ($ _____)

Alternate No. 2 *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

_____Dollars ($ _____)

Alternate No. 3 *(Owner to provide description of alternate and state whether add or deduct)* for the lump sum of:

_____Dollars ($_____)

NAME OF BIDDER: _____

ADDRESS OF BIDDER:_____

_____

LOUISIANA CONTRACTOR'S LICENSE NUMBER: _____

NAME OF AUTHORIZED SIGNATORY OF BIDDER: _____

TITLE OF AUTHORIZED SIGNATORY OF BIDDER: _____

SIGNATURE OF AUTHORIZED SIGNATORY OF BIDDER **: _____

DATE: _____

* The Unit Price Form shall be used if the contract includes unit prices. Otherwise it is not required and need not be included with the form. The number of unit prices that may be included is not limited and additional sheets may be included if needed.
** If someone other than a corporate officer signs for the Bidder/Contractor, a copy of a corporate resolution or other signature authorization shall be required for submission of bid. Failure to include a copy of the appropriate signature authorization, if required, may result in the rejection of the bid unless bidder has complied with La. R.S. 38:2212(B)5.
BID SECURITY in the form of a bid bond, certified check or cashier's check as prescribed by LA RS 38:2218.A is attached to and made a part of this bid.

LOUISIANA UNIFORM PUBLIC WORK BID FORM
UNIT PRICE FORM

TO: City of Gretna
2nd St. and Huey P. Long Avenue
Gretna, LA 70053
(Owner to provide name and address of owner)

BID FOR: Huey P. Long Lighting 2nd-5th Streets
_____
(*Owner to provide name of project and other identifying information)*

UNIT PRICES: This form shall be used for any and all work required by the Bidding Documents and described as unit prices. Amounts shall be stated in figures and only in figures.

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ MOBILIZATION AND DEMOBILIZATION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
1	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ TRAFFIC CONTROL AND COORDINATION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
2	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ PULL BOX			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
3	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ POLE FOUNDATION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
4	52	EACH		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ TRENCHING			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
5	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ RACEWAY			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
6	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ CONCRETE DEMOLITION			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
7	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ CONCRETE FLATWORK			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
8	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ DIRECTIONAL DRILL			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
9	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ SODDING			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
10	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ ELECTRICAL SERVICE AND DISTRIBUTION EQUIPMENT			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
11	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ CONDUCTORS, GROUNDING, ELECTRICAL CONNECTORS/TAPS			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
12	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___ TEMPORARY JUNCTION BOX MOUNTED ON POLE FOUNDATIONS TO CONCEAL CONDUCTORS			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
13	1	LS		

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
14				

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
15				

DESCRIPTION:	☒ Base Bid or ❑ Alt.# ___			
REF. NO.	QUANTITY:	UNIT OF MEASURE:	UNIT PRICE	UNIT PRICE EXTENSION *(Quantity times Unit Price)*
16				

Wording for "DESCRIPTION" is to be provided by the Owner.
All quantities are estimated. The contractor will be paid based upon actual quantities as verified by the Owner

TORK® nsi INDUSTRIES

SPECIFICATION SHEET

Project Info:	Type:
Job Ref:	Catalog Number:
Approvals:	Date:

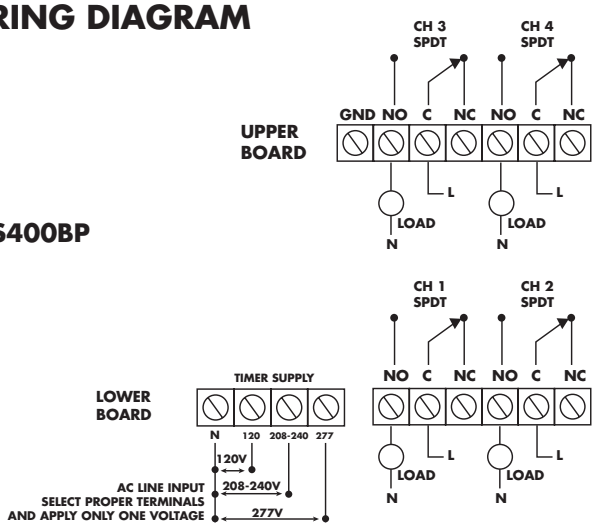
DZS SERIES
365/7 DAY ADVANCED LIGHTING CONTROLLER

APPLICATIONS
- HVAC equipment, horns and bells.
- Interior lighting, electric motors.
- Outdoor lighting and signs.

FEATURES
SCHEDULING:
99 ON & OFF set points allow individual programs for each day of the week at a minimum 1 minute apart.
SunSet ASTRONOMIC:
Adjusts daily to changes in sunset times. Adjustable 10˚ - 60˚ Northern or Southern latitudes can be individually offset +/-1 to 240 minutes from both sunset and sunrise times.
SEASONS:
1 to 4 with different daily schedules which can wrap around into the new year.
HOLIDAYS:
1 to 24 individual dates.
SIGNAL/PULSE DURATION:
2 different settings per channel: 1-99 seconds.
DAYLIGHT SAVING:
Automatic adjustment (can be omitted).
LEAP YEAR:
Automatic Compensation.
MANUAL OVERRIDE:
Until the next regularly scheduled ON or OFF, automatic operation then resumes. In signal mode, activates pulse.
CLOCK FORMAT:
AM/PM or 24 Hour Format.
POWER OUTAGE BACKUP:
Permanent schedule retention with memory module. Supercapacitor provides 7 days of real time backup.
MEMORY MODULE: Removable MM can be programmed at any one location and inserted into another DZS series unit.
COPY FEATURE:
Unit can be configured to copy program schedule to multiple memory modules.
OPTION:
Memory Module Programmer with software for computer connection programming. Also allows stand alone battery operation for portable copy feature.

SPECIFICATIONS
TIMING ACCURACY:
Line frequency.
INPUT VOLTAGE:
120/208-240/277VAC, 50/60Hz.
TERMINAL RANGE:
#14-#16AWG for line input. #12-#16AWG load outputs.
OPERATING TEMPERATURE:
-40 °F to +158 °F (-40 °C to 70 °C).
POWER CONSUMPTION:
6VA Max: DZS400BP.
ENCLOSURE: Noryl® Indoor/Outdoor NEMA 3R. 5" x 9 1/8" x 4 1/2". Suffix -0 metal Indoor/Outdoor NEMA 3 5 1/4" x 8 1/4" x 4 5/16". All with lockable hasp.

WIRING DIAGRAM



ORDERING INFO

CAT. NO.	UPC CODE	TIMER SUPPLY (VAC) 50/60Hz	NO. OF CHANNELS	DRY CONTACTS (UNPOWERED)
DZS400BP	82184	120/208-240/277	4	SPDT
USB-MMP	82196		Memory Module Programmer	Includes software

CONTACT RATINGS

TYPE	VOLTAGE (VAC)	RATING NO	RATING NC
General Purpose	24-277	20A	20A
Ballast	120-277	13A	-
Tungsten	120	8A	-
Motor Load	120/240	1/2HP	1/2 HP
Pilot Duty	120-277	720VA	360VA

nsi INDUSTRIES
9730 Northcross Center Court
Huntersville, NC 28078
P: 888-500-4598
www.nsiindustries.com

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

FOR THE
CITY OF GRETNA, LOUISIANA

STATE PROJECT 50–MBS–14–02

BKI PROJECT 9344–8320
DECEMBER 2021

CITY OF GRETNA

MAYOR
BELINDA C. CONSTANT

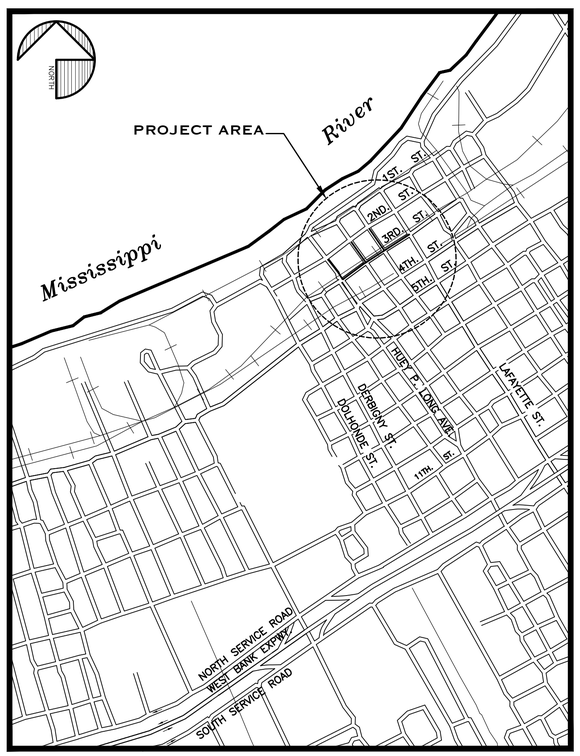
COUNCIL MEMBERS

WAYNE A. RAU–COUNCILMAN AT–LARGE
RUDY S. SMITH– COUNCILMAN DISTRICT 1
MICHAEL A. HINYUB – COUNCILMAN DISTRICT 2
MARK K. MILLER – COUNCILMAN DISTRICT 3
JACKIE J. BERTHELOT – COUNCILMAN DISTRICT 4

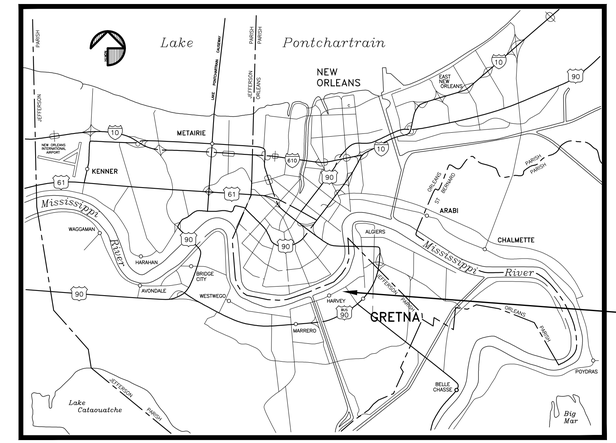
DIRECTOR OF PUBLIC WORKS
DANNY LASYONE

INDEX OF DRAWINGS

TOTAL NUMBER OF SHEETS: 35



LOCATION MAP
N.T.S.



SEE LOCATION MAP

VICINITY MAP
N.T.S.

STATE OF LOUISIANA
HENRY M. PICARD, III
REG. No. 22289
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

APPROVAL

HENRY M. PICARD III — DATE
SENIOR VICE PRESIDENT, BURK–KLEINPETER, INC.

BELINDA C. CONSTANT, MAYOR — DATE
CITY OF GRETNA, LOUISIANA

DANNY LASYONE, DIRECTOR — DATE
CITY OF GRETNA, DEPARTMENT OF PUBLIC WORKS

LANDSCAPE ARCHITECT: — DATE
Dana Brown & Associates, Inc.

BURK–KLEINPETER, INC. *4176 CANAL STREET* *NEW ORLEANS, LA.*

GENERAL NOTES:

1. ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).
2. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE PROJECT TEMPORARY BENCHMARKS SHOWN ON THE PLANS WITH PERMANENT BENCHMARK INDICATED ON INDEX SHEET.
3. DIMENSIONS AND/OR ELEVATIONS MARKED THUS (N.T.S.) ARE NOT SHOWN TO SCALE.
4. DRAWINGS ARE GENERALLY TO SCALE, BUT SHOULD NOT BE SCALED. N.T.S. IS SHOWN ONLY WHERE DRAWING IS OBVIOUSLY OUT OF SCALE.
5. LOCATION OF EXISTING UTILITIES INDICATED ON THE PLAN SHEETS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE BASED, IN PART, ON INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION, WHETHER OR NOT THEY ARE SHOWN ON THE PLANS.
6. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES, YARDS, OR STRUCTURES CAUSED BY CONSTRUCTION OPERATIONS. THE DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND VERIFYING ALL MEASUREMENTS AND GRADES PRIOR TO BEGINNING OF CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH PROJECT CENTERLINE AND ADDITIONAL TEMPORARY BENCHMARKS FOR CONSTRUCTION PURPOSES BEFORE DESTROYING EXISTING MONUMENTS/NAILS/ CROSS CUTS, ETC.
8. NO SIGNS OR SIGNALS SHALL BE REMOVED WITHOUT THE ENGINEER'S APPROVAL. THE CONTRACTOR ACCEPTS ALL RESPONSIBILITIES DURING THE TIME OF REMOVAL. THE CONTRACTOR WILL NOTIFY THE CITY OF GRETNA PUBLIC WORKS DEPT. A MINIMUM OF THREE (3) WORKING DAYS IN ADVANCE OF WHEN CONTROLS ARE TO BE REMOVED AND REINSTALLED. ALL SIGNS, SIGNALS, AND MARKINGS REMOVED WILL BE IN PLACE AT THE TIME OF FINAL INSPECTION.
9. THE CONTRACTOR MUST VERIFY ELEVATIONS OF ALL EXISTING INVERTS THAT ARE A PART OF THIS JOB. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
10. NOISE CONTROL – CONTRACTOR SHALL TAKE REASONABLE MEASURES TO AVOID UNNECESSARY NOISE APPROPRIATE FOR THE AMBIENT SOUND LEVELS IN THE AREA DURING WORKING HOURS. ALL CONSTRUCTION MACHINERY & VEHICLES SHALL BE EQUIPPED WITH PRACTICAL SOUND MUFFLING DEVICES, AND OPERATED IN A MANNER TO CAUSE THE LEAST NOISE.
11. DUST CONTROL – CONTRACTOR SHALL TAKE REASONABLE MEASURES TO PREVENT UNNECESSARY DUST. EACH SURFACE SUBJECT TO DUSTING SHALL BE KEPT MOIST WITH WATER OR BY APPLICATION OF CHEMICAL DUST SUPPRESSANT AS OFTEN AS REQUIRED TO MINIMIZE DUST. DUSTY MATERIALS IN PILES OR IN TRANSIT SHALL BE COVERED TO PREVENT BLOWING.
12. VIBRATION CONTROL – CONTRACTOR TO KEEP VIBRATIONS FROM CONSTRUCTION PROCESSES AND EQUIPMENT TO A MINIMUM.
13. CONTRACTOR IS TO NOTIFY RESIDENTS OR ADJACENT COMMERCIAL BUSINESSES OF CONSTRUCTION A MINIMUM OF ONE WEEK PRIOR TO START OF CONSTRUCTION.
14. CONTRACTOR SHALL VISIT THE SITE OF WORK AND COMPLETELY INFORM HIMSELF RELATIVE TO THE EXISTING CONDITIONS PRIOR TO THE START OF CONSTRUCTION.
15. CONTRACTOR SHALL GIVE 24–HOUR NOTICE TO THOSE AFFECTED PRIOR TO DISRUPTION OF WATER, SEWER OR OTHER SERVICE. UTILITY SHALL BE PROMPTLY REPAIRED.
16. ALL EXISTING MATERIALS OR EQUIPMENT AS INDICATED TO BE REMOVED ON PLANS, FROM THE CONSTRUCTION SITE, WILL BECOME CONTRACTORS PROPERTY. CONTRACTOR SHALL DISPOSE OF THE MATERIAL OR EQUIPMENT PROPERLY. CONTRACTOR SHALL DISPOSE OF THE MATERIAL OR EQUIPMENT IN A SAFE MANNER. CONTRACTOR SHALL SUBMIT A HAUL ROUTE TO THE ENGINEER FOR APPROVAL.
17. CONTRACTOR TO SEED AND FERTILIZE ALL DISTURBED NON–PAVED AREAS WITHIN THE PROJECT RIGHT–OF–WAY.
18. CONTRACTOR SHALL NOT REMOVE ANY TREES UNLESS CALLED TO BE REMOVED ON PLAN AND PROFILE SHEETS OR AS DIRECTED BY THE ENGINEER.
19. IN ACCORDANCE WITH SPECIFICATIONS, THE CONTRACTOR IS ENTIRELY RESPONSIBLE FOR PROTECTION OF HIS EXCAVATION AGAINST CAVING OR SETTLING OF THE BANKS AND FOR ALL DAMAGE TO PAVEMENTS, BUILDINGS, HOUSES, FENCES, AND OTHER PROPERTY CAUSED BY HIS EXCAVATION. CONTRACTOR SHALL PROTECT THE SIDES OF THE EXCAVATION BY AN INTERLOCKED SHEETING AND BRACING SYSTEM OR OTHER SHORING AS MAY BE NECESSARY. THE CONTRACTOR IS ALSO RESPONSIBLE FOR DEWATERING, CONTROL OF GROUNDWATER, AND MAINTENANCE OF EXISTING DRAINAGE CAPACITY VIA SUMPS, AND PUMPS AS REQUIRED. (NO DIRECT MEASUREMENT OR PAYMENT)
20. THE LINES AND GRADES SHOWN ON THE PLANS MAY BE VARIED SLIGHTLY BY THE ENGINEER IN THE FIELD IF CONDITIONS JUSTIFY SUCH A VARIATION. THE CONTRACTOR SHALL NOT BE ENTITLED TO AN EXTRA PAYMENT OTHER THAN WHATEVER INCREASE IN CONTRACT QUANTITIES IS INVOLVED.
21. RESERVED
22. RESERVED
23. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER CONSTRUCTION SIGNAGE. CONSTRUCTION TRAFFIC CONTROL SIGNS, BARRICADES, WARNING LIGHTS, DEVICES AND METHODS, SHALL COMPLY WITH PART VI OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT "TRAFFIC CONTROL DEVICES MANUAL" UNLESS OTHERWISE DIRECTED IN THE FIELD.
24. CONTACT THE FOLLOWING AT LEAST THREE (3) WORKING DAYS PRIOR TO ANY STREET CUTTING OPERATIONS OR OTHER TYPE EXCAVATION.

A.	WATER	CITY OF GRETNA DEPT. OF PUBLIC WORKS	363–1542
B.	SEWER	CITY OF GRETNA DEPT. OF PUBLIC WORKS	363–1542
C.	ELECTRIC	ENTERGY, INC. MR. TONY TRAPANI (GRETNA) MRS. JONI BATHEL	593–3477 460–5546
D.	DRAINAGE	CITY OF GRETNA DRAINAGE DEPARTMENT	363–1520
E.	TELEPHONE	BELL SOUTH MR. LLOYD MASSEY	364–6801
F.	BURIED CABLE	LOUISIANA ONE CALL	1–800–272–3020
G.	GAS	ATMOS ENERGY MR. BRIAN BLUM	362–5258
H.	CABLE	COX COMMUNICATIONS MR. ED HERRERA (GRETNA)	304–8093

25. ALL EXCAVATED MATERIAL NOT USED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE HAULED OFF SITE AND DISPOSED OF LEGALLY AND PROPERLY.
26. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HOUSEKEEPING OF THE PROJECT SITE ON A DAILY BASIS AND SHALL KEEP THE AREA CLEAN AND FREE OF ALL TRASH AND DEBRIS. (NO DIRECT MEASUREMENT OR PAYMENT)
28. CONTRACTOR SHALL CONDUCT PRE–CONSTRUCTION VIDEO AND PHOTOGRAPHIC DOCUMENTATION OF EXISTING CONDITIONS, PER SPECIFICATIONS. (NO DIRECT MEASUREMENT OR PAYMENT)
29. ALL REINFORCING STEEL SHALL BE ASTM A–615, WITH A MINIMUM YIELD STRENGTH (Fy) OF 60,000 PSI.
30. ALL PRIMARY REINFORCEMENT SHALL HAVE A MINIMUM COVER OF 2" UNLESS OTHERWISE NOTED. THE COVER FOR SECONDARY REINFORCEMENT MAY BE REDUCED FROM THE ABOVE BY THE DIAMETER OF THE BAR.
31. ALL WORK AROUND HIGH VOLTAGE POWER LINES SHALL BE IN ACCORDANCE WITH OSHA AND ENTERGY REQUIREMENTS.

    ALL OVERHEAD POWER POLES IN CLOSE PROXIMITY TO THE ALIGNMENT OF THE PROPOSED WORK SHALL BE SUPPORTED WITH MUD JACKS OR BY OTHER MEANS OF BRACING AS REQUIRED TO MAINTAIN THEM IN A STABLE CONDITION. THE TEMPORARY SUPPORT AND SUBSEQUENT STABILITY OF THESE POLES WILL BE THE CONTRACTOR'S RESPONSIBILITY. (NO DIRECT MEASUREMENT OR PAYMENT)

    IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE REQUIREMENTS OF HIS WORK (DRIVING SHEETING, HANDLING CULVERTS, ETC.) BENEATH OR IN THE VICINITY OF THE POWER LINES AND HIS ABILITY TO WORK SAFELY UNDER THESE CONDITIONS. ANY RELOCATION, DE–ENERGIZING, ETC. MUST BE ARRANGED WITH ENTERGY BY THE CONTRACTOR. THE CONTRACTOR SHALL PAY FOR ALL COSTS ASSOCIATED WITH ANY RELOCATION, DE–ENERGIZING, RE–ENERGIZING, ETC. OF ALL LINES.

    THE CONTRACTOR SHALL MAINTAIN A FIFTEEN (15) FOOT CLEARANCE FROM THE TOP OF HIS EQUIPMENT TO THE BOTTOM PHASE ATTACHMENT AT ALL TIMES.
32. UPON PLACEMENT OF BACKFILL, ANY SHEETING AND BRACING SHALL BE CUT OFF OR DRIVEN ONE FOOT (1') BELOW PAVEMENT SECTION. THERE WILL BE NO DIRECT PAY FOR ADDITIONAL MATERIALS REQUIRED.
33. ANY EXISTING PAVEMENT MARKERS AND STRIPING DESTROYED DURING STREET REMOVAL MUST BE REPLACED IN–KIND UPON COMPLETION OF PAVEMENT WORK.
34. DRAIN LINE FIELD TAPS SHALL BE PERFORMED AT NO DIRECT PAY.
35. CONCRETE:

    A) REINFORCING BAR DESIGNATION NUMBERS CONFORM TO THE NUMBERING SYSTEM OF THE CONCRETE REINFORCING STEEL INSTITUTE.
36. 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 2" UNLESS OTHERWISE NOTED. ALL REINFORCING STEEL SHALL BE GRADE 60. PROVIDE CLASS B LAP SPLICED IN ACCORDANCE WITH ACI 318–11, UNLESS OTHERWISE NOTED.
37. GALVANIZED STEEL

    A. ALL STEEL MEMBERS SHALL BE HOT DIPPED GALVANIZED.
    B. ALL ANCHOR BOLTS SHALL BE HOT DIPPED GALVANIZED.
    C. ALL ITEMS THAT ARE HOT DIPPED GALVANIZED SHALL BE DIPPED AFTER FABRICATION.
    D. ALL MISCELLANEOUS HARDWARE WHICH IS SPECIFIED TO BE GALVANIZED SHALL BE COATED IN ACCORDANCE WITH ASTM A153, AND COATED IN CONFORMANCE WITH ASTM–A123 AFTER FABRICATION.

CONSTRUCTION SIGNING GENERAL NOTES

1. THE DESIGN AND APPLICATION OF ALL SIGNALS, PAVEMENT MARKINGS, CHANNELIZING DEVICES, AND WARNING SIGNS SHALL CONFORM TO "THE LOUISIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", LATEST EDITION.
2. CHANNELIZING AND DELINEATION DEVICES SHALL BE USED TO MARK ALL CONSTRUCTION AREAS. THESE SHALL BE TYPE III BARRICADES, AND BARRELS, AND FULLY REFLECTORIZED WITH LIGHTS.
3. ANY TRAFFIC CONTROL DEVICES (SIGNS, SIGNALS, MARKINGS) WHICH EXIST AS PART OF THE NORMAL PRE–CONSTRUCTION SCHEME, AND THAT DO NOT APPLY TO AN APPROPRIATE SITUATION, OR ARE IN THE WAY OF CONSTRUCTION, SHALL BE COVERED, REMOVED, OR RELOCATED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE ENGINEER.
4. ANY TEMPORARY DEVICES NOT APPLYING TO AN APPROPRIATE SITUATION, OR THAT ARE NO LONGER REQUIRED, SHALL BE COVERED, REMOVED, OR OBLITERATED BY THE CONTRACTOR.
5. THE ROADWAY AND ALL TRAFFIC CONTROL DEVICES SHALL BE RESTORED TO ORIGINAL CONDITIONS BY THE CONTRACTOR.
6. ALL EXCAVATION SHALL BE COVERED, BACKFILLED, OR PROTECTED AS DIRECTED BY THE PROJECT ENGINEER, FULLY DELINEATED (SEE NOTE 2) AT NIGHT AND WHEN WORK IS NOT IN PROGRESS. EXCAVATED PITS, ETC. SHALL BE FULLY FENCED OR BARRICADED (SEE NOTE 2) TO PREVENT ACCESS BY PEDESTRIANS.
7. ALL MATERIALS/MACHINES SHALL BE STORED OUTSIDE OF THE RESIDENTIAL PROPERTY LINES AND THE ROAD SURFACE, CREATING NO SITE DISTANCE PROBLEMS, AND FULLY DELINEATED AS IN NOTE 2.
8. IF SECTIONS OF ROADWAY ARE TOTALLY CLOSED, THE CONTRACTOR SHALL NOTIFY THE CITY POLICE DEPARTMENT, 911 OPERATIONS, THE MAYOR'S OFFICE, THE FIRE DEPARTMENT, AND ANY MAJOR TRAFFIC GENERATORS (i.e. SCHOOLS, ETC.). A THREE WORKING DAY, MINIMUM, ADVANCE NOTICE WILL BE REQUIRED.
9. ON TOTALLY CLOSED SECTIONS OF THE ROADWAY, THE CONTRACTOR SHALL PROVIDE ACCESS FOR LOCAL TRAFFIC ONLY.
10. BARRELS USED FOR CHANNELIZING AND DELINEATION DEVICES AS PART OF THIS TRAFFIC CONTROL DEVICE PLAN SHALL BE WEIGHTED WITH SAND BAGS, FULLY REFLECTORIZED, WITH LIGHTS.
11. THE CONTRACTOR SHALL CHECK TRAFFIC CONTROL DEVICES ON A DAILY BASIS AS A MINIMUM WHEN BEGINNING AND ENDING THE WORK DAY, TO ENSURE ADHERENCE TO THE PLANS AND PROPER ADEQUACY OF DEVICES FOR DAY AND NIGHT VISIBILITY. ON WEEKENDS, DEVICES SHALL BE CHECKED A MINIMUM ONCE PER DAY.
12. ALL DEFICIENCIES NOTED BY THE ENGINEER REGARDING TRAFFIC CONTROL OR VEHICULAR OR PEDESTRIAN SAFETY ISSUES SHALL BE CORRECTED BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY SIGNIFICANT CHANGES TO THE TRAFFIC CONTROL DEVICES AND OPERATING CONDITIONS.
13. FLAGMAN AND/OR POLICE TRAFFIC CONTROL SHALL BE PROVIDED AS NEEDED AND SPECIFIED BY THE ENGINEER.
14. AT THE TIME OF CONSTRUCTION, ANY ADDITIONAL TRAFFIC CONTROL DEVICES WHICH MAY BE REQUIRED BY THE ENGINEER, THE CITY OF GRETNA DEPARTMENT OF PUBLIC WORKS, OR THE CONTRACTOR SHALL BE PROVIDED BY CONTRACTOR AT NO DIRECT PAY.
15. YELLOW, HIGH VISIBILITY PENNANT BARRIER FLAGGING (NYLON ROPE WITH PLASTIC PENNANTS) SHALL NOT BE STRUNG BETWEEN TYPE II BARRICADES AND BARRELS/DRUMS UNLESS DIRECTED BY THE ENGINEER.
18. CONTRACTOR SHALL PROVIDE FOR THE MOVEMENT OF PEDESTRIANS FOR THE ENTIRE LENGTH OF THE CONTRACT. AS MUCH AS POSSIBLE, THE CONTRACTOR SHALL NOT OBSTRUCT EXISTING SIDEWALKS, THEREBY OBSTRUCTING PEDESTRIAN MOVEMENTS. IF EXISTING SIDEWALKS MUST BE OBSTRUCTED, THE CONTRACTOR SHALL PROVIDE FOR THE MOVEMENT OF PEDESTRIANS BY POSTING APPROPRIATE SIGNING, SUCH AS, "SIDEWALK CLOSED–USE OTHER SIDE OF STREET". SIGNING SHALL BE REFLECTORIZED, AND LIGHTED AT NIGHT. ALSO, WHERE TRENCHES ARE EXCAVATED OUTSIDE THE ROADWAY SURFACE, THE CONTRACTOR SHALL PROVIDE EACH DWELLING AT LEAST ONE ACCESSIBLE CROSSING OF THE BACKFILLED TRENCH AREA, FOR USE BY PEDESTRIANS.
19. AT ALL TIMES THE CONTRACTOR SHALL PROVIDE ACCESS TO AREA BUSINESSES. DRIVEWAY WORK (INCLUDING CURBING) SHALL BE COORDINATED SO THAT AT LEAST ONE LANE OF ACCESS IS PROVIDED AT ALL TIMES.
20. CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL/DETOUR PLAN PREPARED BY A LICENSED PE FOR CITY APPROVAL PRIOR TO CONSTRUCTION.
21. CONTRACTOR MUST USE BEST MANAGEMENT PRACTICES TO ENSURE RUNOFF FROM CONSTRUCTION SITE TO MEET GRETNA'S MS4 PERMIT – STORMWATER MANAGEMENT PROGRAM.

STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

SHEET NUMBER C2

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)
GENERAL NOTES

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119–5994
PHONE (504)486–5901•FAX (504)488–1714

BKI JOB # – 9344–8320 BASE BID

DESIGNED	R.P
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC., 2021
SHEET	1 OF 2

NO.	DATE	REVISION DESCRIPTION	BY

GENERAL NOTES

1. THE CONTRACTOR IS ADVISED THAT HE MUST COMPLY WITH ALL SPECIAL PROVISIONS AND TECHNICAL SPECIFICATIONS AS STATED IN THE PROJECT CONSTRUCTION SPECIFICATIONS AND CONTRACT DOCUMENTS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TEMPORARY DRAINAGE WITHIN THE PROJECT AREA DURING CONSTRUCTION AND SHALL NOT RESTRICT DRAINAGE FLOW OR IMPEDE DRAINAGE DURING RAIN EVENTS (NO DIRECT PAY).
3. THE CONTRACTOR SHALL PROVIDE A PROPOSED HAUL ROUTE FOR ALL EQUIPMENT OR MATERIALS HAULED TO OR FROM THE CONSTRUCTION SITE PRIOR TO THE START OF CONSTRUCTION. THE ROUTE MUST BE APPROVED BY THE PARISH TRAFFIC ENGINEERING DIVISION PRIOR TO THE START OF CONSTRUCTION. ALL DUMP TRUCKS SHALL BE COVERED TO PREVENT MATERIAL FROM FALLING ON ROADWAY.

UTILITIES

1. THE JOINING OF NEW AND EXISTING DRAINAGE PIPES SHALL BE IN ACCORDANCE WITH THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES 2016 EDITION SECTION 701.
2. LOUISIANA 1-CALL MUST BE CONTACTED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.

TRAFFIC CONTROL

1. ALL WORK PERFORMED UNDER THIS SECTION SHALL BE PAID FOR UNDER ITEM NO. 713 TEMPORARY SIGNS AND BARRICADES UNLESS SPECIFICALLY NOTED.
2. NO LESS THAN FIFTEEN (15) WORKING DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A DETAILED TEMPORARY TRAFFIC CONTROL PLAN, TO BE PAID UNDER THE TEMPORARY SIGNS AND BARRICADES ITEM, TO THE CITY ENGINEER FOR REVIEW AND APPROVAL. THE PLAN WILL INCLUDE A COMPLETE CONSTRUCTION SIGNAGE, TRAFFIC MAINTENANCE AND PUBLIC SAFETY PLAN, WHICH AT A MINIMUM INCLUDES THE FOLLOWING:

a. A SIGN INVENTORY A LIST OF ALL EXISTING TRAFFIC CONTROL DEVICES (SIGNS, RAISED PAVEMENT MARKINGS, ETC.) ACCURATELY LOCATED ON THE PLANS.

b. A PLAN FOR THE PROPOSED ROUTE ON WHICH CONSTRUCTION MATERIAL AND EQUIPMENT ARE TO BE TRANSPORTED TO OR FROM THE CONSTRUCTION SITE.

c. A DETOUR PLAN SHOWING PROPOSED ROUTES FOR LOCAL AND TRANSIENT TRAFFIC ON WHICH LOCATIONS OF DETOUR TRAFFIC CONTROL DEVICES AND CONSTRUCTION ZONE OR WORK ZONE TRAFFIC CONTROL DEVICES ARE SHOWN. TRAFFIC CONTROL DEVICE APPLICATIONS AND METHODS SHALL BE IN COMPLIANCE WITH PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) UNLESS OTHERWISE DIRECTED IN THE FIELD BY JEFFERSON PARISH TRAFFIC ENGINEERING.

d. THE CONTRACTOR SHALL PROVIDE WEEKLY PROGRESS UPDATES TO THE OWNER. THIS INCLUDES, BUT IS NOT LIMITED TO, CURRENT AND PROJECTED ROAD CLOSURES, ALTERNATE ROUTES, IMPLEMENTED DETOUR ROUTES, ESTIMATED DURATION OF ROAD CLOSURES AND PROGRESS OF CONSTRUCTION FOR ALL CONSTRUCTION LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ACCURATE SCHEDULES THAT SHOW ANTICIPATED ROAD CLOSURES, ROAD CONSTRUCTION BEGINNING AND ENDING DATES AND ANY RESULTING DETOUR LOCATIONS AND DATES TO THE PROJECT ENGINEER AND THE OWNER. THIS INFORMATION WILL BE UPLOADED TO THE OWNER'S WEBSITE TO INFORM RESIDENTS OF CONSTRUCTION ACTIVITIES. THESE SCHEDULES SHALL BE ACCURATE AND UPDATED AS REQUIRED IF ANTICIPATED DATES CHANGE DUE TO WEATHER, DELAYS, ETC. CONTRACTOR SHALL SUBMIT ROAD CLOSURE FORMS FOR APPROVAL NO LESS THAN FIFTEEN (15) WORKING DAYS PRIOR TO CLOSING ANY ROADWAY

3. THE CONSTRUCTION TRAFFIC CONTROL SIGNS, BARRICADES, WARNING LIGHTS, DEVICES, AND METHODS SHALL ADHERE TO PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION, AS REVISED, UNLESS OTHERWISE NOTED IN THE FIELD BY THE CITY ENGINEER.
4. ANY DAMAGE TO EXISTING TRAFFIC DEVICES CAUSED BY THE CONTRACTOR'S WORK SHALL BE IMMEDIATELY REPORTED BY THE CONTRACTOR TO THE CITY ENGINEER. REPAIRS SHALL BE PERFORMED BY THE CONTRACTOR.
5. PAVEMENT MARKINGS, STRIPING, AND TRAFFIC CONTROL DEVICES SHALL CONFORM AND BE INSTALLED AS SHOWN ON THE STRIPING PLANS OR AS DIRECTED BY THE CITY ENGINEER. ALL INSTALLATIONS SHALL BE AS PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), (LATEST EDITION) AS REVISED. (THERE SHALL BE NO DIRECT PAYMENT FOR REMOVAL OF EXISTING MARKINGS.)
6. FOR WORK LOCATED ALONG STATE AND FEDERAL HIGHWAY RIGHTS-OF-WAY, PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE LA DOTD FOR REVIEW AND APPROVAL A UTILITY PERMIT APPLICATION INCLUDING BUT NOT LIMITED TO A TRAFFIC CONTROL PLAN. CONTACT DOTD FOR A LISTING OF STATE AND FEDERAL HIGHWAYS.
7. IF BOTH ROADWAY LANES ARE TO BE REPLACED, ONE LANE OF TRAFFIC MUST BE OPEN AT ALL TIMES UNLESS APPROVED BY THE OWNER IN WRITING.

ROADWAYS

1. CONCRETE PANELS SHALL BE REMOVED AND REPLACED FROM JOINT TO JOINT (WHETHER FOR ROADWAYS, DRIVEWAYS OR SIDEWALKS). THE CONTRACTOR SHALL SAWCUT TO PRESERVE THE INTEGRITY OF THE JOINT. SAWCUTTING SHALL BE STRAIGHT AND FULL DEPTH AT NO DIRECT PAY UNLESS OTHERWISE STATED IN THE CONTRACT SPECIFICATIONS
2. CONTRACTOR SHALL EXERCISE CAUTION WHEN REMOVING CONCRETE OR ASPHALT PAVEMENT ADJACENT TO PAVEMENT THAT IS TO REMAIN (WHETHER FOR ROADWAYS, DRIVEWAYS OR SIDEWALKS). ANY DAMAGE TO THE ADJACENT PAVEMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF JEFFERSON PARISH AT THE CONTRACTOR'S EXPENSE. THIS MAY INCLUDE MILL/OVERLAY, PATCHING OR FULL REPLACEMENT OF DAMAGED AREAS.
3. CONTRACTOR SHALL CONSTRUCT THE NEW PAVEMENT TO MATCH THE ADJACENT PAVEMENT ELEVATIONS AND ENSURE THAT THE EDGE OF THE PAVEMENT PROFILE IS SMOOTH IN ACCORDANCE WITH THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES LATEST EDITION. A STRAIGHT EDGE SHALL BE USED IN LIEU OF A PROFILOGRAPH.
4. WHEN WIDENING EXISTING PAVEMENT, THE CONTRACTOR SHALL SET THE ROADWAY CROSS SLOPE AND GUTTER PROFILE TO ENSURE POSITIVE DRAINAGE.

STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

SHEET NUMBER C2A

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)
GENERAL NOTES

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # - 9344-8320 BASE BID

DESIGNED	R.P
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC., 2021
SHEET	2 OF 2

NO.	DATE	REVISION DESCRIPTION	BY

SUMMARY OF QUANITIES

ITEM	DESCRIPTION	UNITS	TOTAL
1	Mobilization and Demobilization	L.S.	1
2	Traffic Control and Coordination	L.S.	1
3	Removal of Portland Cement Concrete Pavment	S.Y.	4,822
4	Removal of Asphaltc Pavement	S.Y.	1,124
5	Geotextile Fabric	S.Y.	4,601
6	Portland Cement Concrete Pavement (8" Thick)	S.Y.	3,453
7	Class II Base Course	C.Y.	1,108
8	Curb	L.F.	120
9	Sawcut	L.F.	3,630
10	Replace Striping In Kind	L.F.	256
11	Concrete Drainage Channel	L.F.	30
12	Removal of Existing Concrete Drainage Channel	L.F.	30
13	26.63"x43.75" RCPA	L.F.	991
14	36" RCP	L.F.	18
15	18" RCP	L.F.	1,279
16	15" RCP	L.F.	84
17	12" RCP	L.F.	114
18	Drain Manhole	EACH	13
19	Drain Arch Pipe Manhole	EACH	7
20	Special Drain Manhole	EACH	2
21	Tie-in to Existing Drain Manhole (12" Diam. and Larger)	EACH	4
22	Plug and Reseal Exist Drain Manhole	EACH	6
23	Removal of Existing Drainline (Outside of New Drain Trench)	L.F.	264
24	Drain Siphon	EACH	1
25	CB-06 Catch Basin	EACH	5
26	Tie-in to Existing Catch Basin	EACH	9
27	Waterline Offset (4" DIA. TO 8" DIA.)	EACH	15
28*	Waterline Offset (OVER 8" DIA.)	EACH	1
29	Adjust and Reconnect Existing Water House Connections	EACH	26
30	Adjust and Reconnect Existing Sewer House Connections	EACH	16
31	Temporary Traffic Maintance Aggragate	C.Y.	50
32	Soil Excavation	C.Y.	227
33	Demo Concrete Curb & Gutter	L.F.	10
34	6" PVC Pipe	L.F.	36
35	6" Perforated PVC	L.F.	200
36	Overflow Stand Pipe	EACH	3
37	Tie-in to Existing Drain Manhole (Less than 12" Diam.)	EACH	1
38	Concrete Curb Wall	L.F.	345
39	Concrete Pavers - Vehicular	S.F.	1,170
40	Concrete Banding	L.F.	618
41	Portland Cement Concrete Pavement, 6"	S.Y.	13
42	Concrete Pervious Pavers - Pedestrian	S.F.	250
43	Paver Subbase, No. 8	C.Y.	2
44	Paver Subbase, No. 57	C.Y.	34
45	Paver Subbase, No. 2	C.Y.	5
46	Truncated Dome Pavers	S.F.	67
47	Paver Bedding Sand	S.F.	1,170
48	Shrubs, 2.5 qt.	EACH	583
49	Shrubs, 1 gal.	EACH	232
50	Bioretention Soil	C.Y.	27
51	Mulch	S.Y.	108

CONTENGENCY ITEMS, MARKED WITH (*), ARE TO BE USED AS NEEDED. NO OVERHEAD AND PROFIT ARE TO BE INCLUDED IN THESE ITEMS.

LEGEND

BUILDING
TRAFFIC SIGNAL POLE
TELEPHONE MANHOLE
SEWER MANHOLE
SEWER CLEANOUT
DRAIN MANHOLE
UTILITY METER
UTILITY VALVE
FIRE HYDRANT
CATCH BASIN
SIGN
TREE
LIGHT STANDARD
UTILITY POLE
POWER POLE DEADMAN
PARKING METER
CANOPY SUPPORT
DROP INLET
D — EXIST. DRAIN LINE
W — EXIST. WATER LINE
G — EXIST. GAS LINE
FO — FIBER OPTIC LINE
X — EXIST. FENCE LINE
E — ELECTRIC LINE
OHE — EXIST. OVERHEAD ELECTRIC LINE
MAIL BOX
ENTERGY LIGHTS
REMOVAL OF EXIST. DRAIN LINE

HATCH LEGEND

CONCRETE PAVING

UTILITY NOTE:
LOUISIANA ONE CALL TICKET No.: 160097905 AND 160099596

General Notes:

1) 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 NONVISIBILE 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. ALL DAMAGES MADE TO EXISTING UTILITIES BY THE OWNER OR THE OWNER'S AGENT SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER, OR THE OWNER'S AGENT; I.E. UNDERGROUND TANKS, GAS LINES, WATER LINES, SEWER LINES, ETC.

2) RIGHT OF WAY INFORMATION SHOWN ON MAP/SURVEY IS BASED ON FIELD COLLECTED EVIDENCE. SURVEY SHOWN IS INTENDED FOR TOPOGRAPHIC USES ONLY AND IS NOT A BOUNDARY SURVEY.

3) DATUM REFERENCE– ALL ELEVATIONS SHOWN ARE BASED ON N.A.V.D 88 DATUM. ALL HORIZONTAL DATA SHOWN IS BASED ON LOUISIANA STATE PLANE COORDINATES SYSTEM, SOUTH ZONE, NAD 1983.

Reference N.G.S. Bench Mark

Designation – 1601
PID – AU0965
State/County – LA/Jefferson
USGS Quad – New Orleans East (1992)
Lat.: 29° 54' 34.72178" N
Long.: 90° 05' 03.11094" W
Elev.: 21.3
Bench Mark Description: Brass Cap in Concrete

Benchmark: The station is located in Harvey at the Harvey Locks on the West Banks of the Mississippi.
Ownship – COE

To reach the station from the intersection of SR 18 (4th St.) and Bark Dr., go North on Bark Dr., crossing railroad tracks. Then turn left, heading to Corps of Engineers Lock Office. Passing through a gate, continue ahead to office and parking.

The station is on the West side of Harvey Canal Locks, 158' East of the Avenue centerline, 135.5' East of a chainlink fence, 20.3' West of the west edge of Locks, 8.9' Southwest of the 3rd light pole from the north end.

T.B.M. Descriptions

TBM 51 – "X" chiseled in concrete, 27' South of the intersection of Lafayette St. and First St.

TBM 52 - "X" chiseled in concrete, 26' North of the intersection of Lafayette St. and Second St.

TBM 53 - "X" chiseled in concrete, 25' West of the intersection of Lafayette St. and Third St.

TBM 54 - "X" chiseled in concrete, 24' North of the intersection of Lafayette St. and Fourth St.

TBM 55 - "X" chiseled in concrete, 28' West of the intersection of Lavoisier St. and Fourth St.

TBM 56 - "X" chiseled in concrete, 17' East of the intersection of Lavoisier St. and Third St.

TBM 57 - "X" chiseled in concrete, 25' South of the intersection of Lavoisier St. and Second St.

TBM 58 - "X" chiseled in concrete, 19' North of the intersection of Lavoisier St. and First St.

TBM 59 - "X" chiseled in concrete, 17' North of the intersection of Newton St. and First St.

TBM 60 - "X" chiseled in concrete, 24' East of the intersection of Newton St. and Second St.

TBM 61 - "X" chiseled in concrete, 22' South of the intersection of Newton St. and Third St.

TBM 62 - "X" chiseled in concrete, 26' North of the intersection of Newton and Fourth St.

TBM 65 - "X" chiseled in concrete, 28' East of the intersection of Huey P. Long Ave. (Northwest Bound Lane) and Fourth St.

TBM 66 – "X" chiseled in concrete, 15' West of the intersection of Huey P. Long Ave. (Northwest Bound Lane) and Third St.

TBM 67 - "X" chiseled in concrete, 24' East of the intersection of Huey P. Long Ave. (Northwest Bound Lane) and Second St.

TBM 68 - "X" chiseled in concrete, 15' North of the intersection of Huey P Long Ave. (Northwest Bound Lane) and First St.

STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

SHEET NUMBER C3

CITY OF GRETNA LOUISIANA

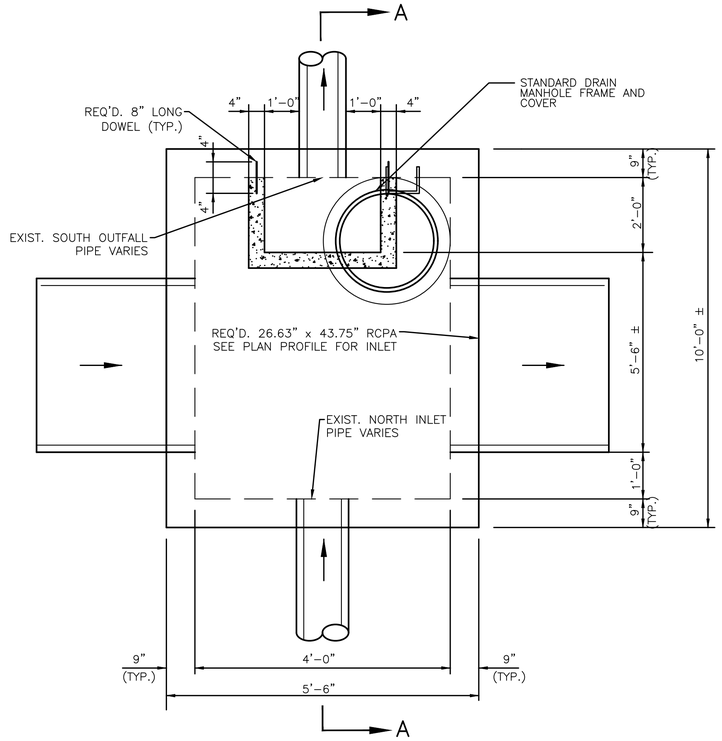
GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)
LEGEND, ABBREVIATIONS, SUMMARY OF QUANTITIES

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

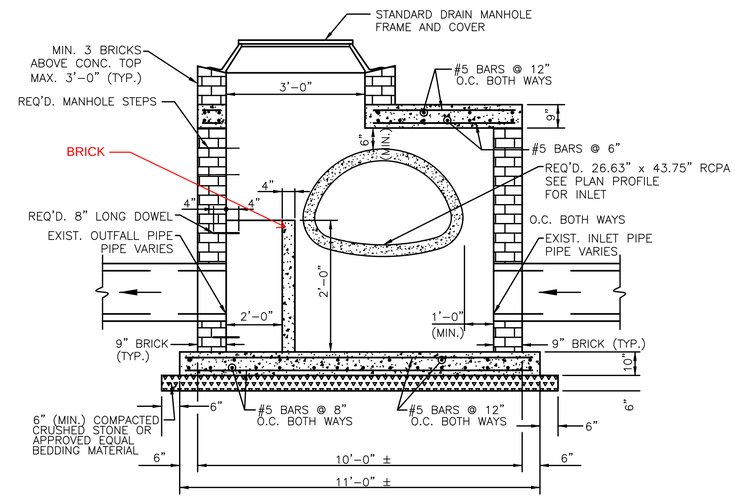
BKI JOB # – 9344-8320 BASE BID

DESIGNED	R.P.
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC., 2021
SHEET	1 OF 1

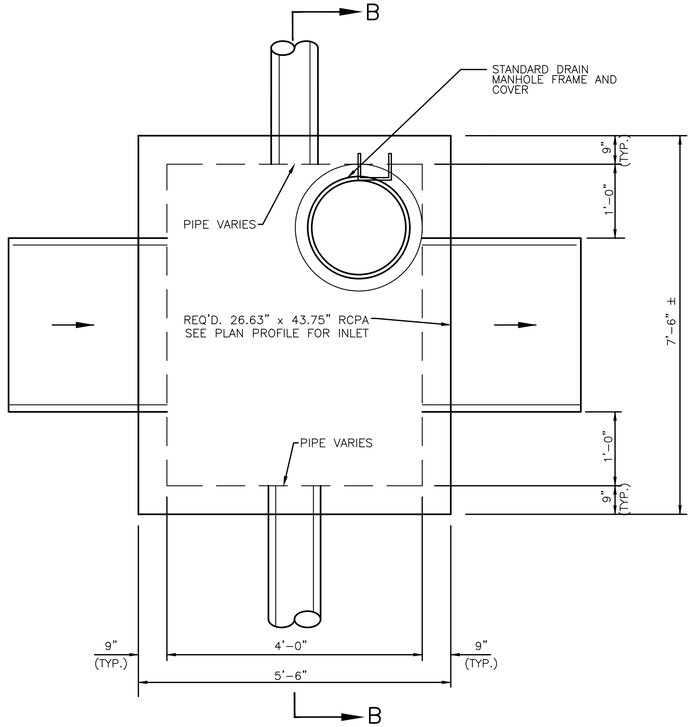
NO.	DATE	REVISION DESCRIPTION	BY



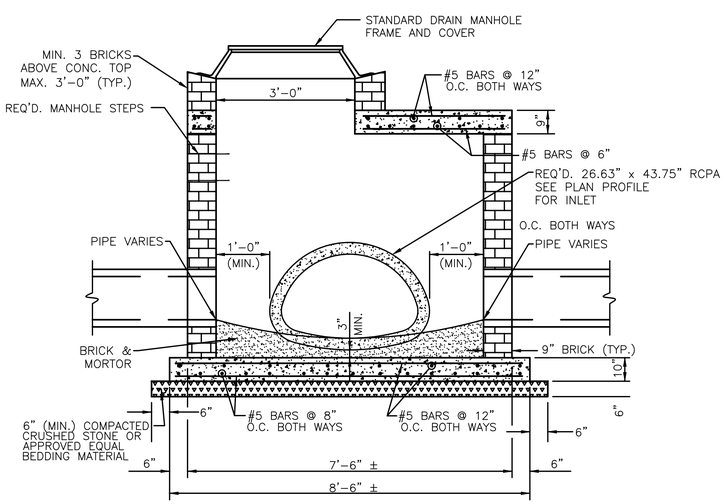
PLAN OF SPECIAL MANHOLE
N.T.S.



SECTION "A"–"A"
N.T.S.



PLAN OF DRAIN ARCH PIPE MANHOLE
N.T.S.



SECTION "B"–"B"
N.T.S.

STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

SHEET NUMBER C3A

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)
SPECIAL DETAILS

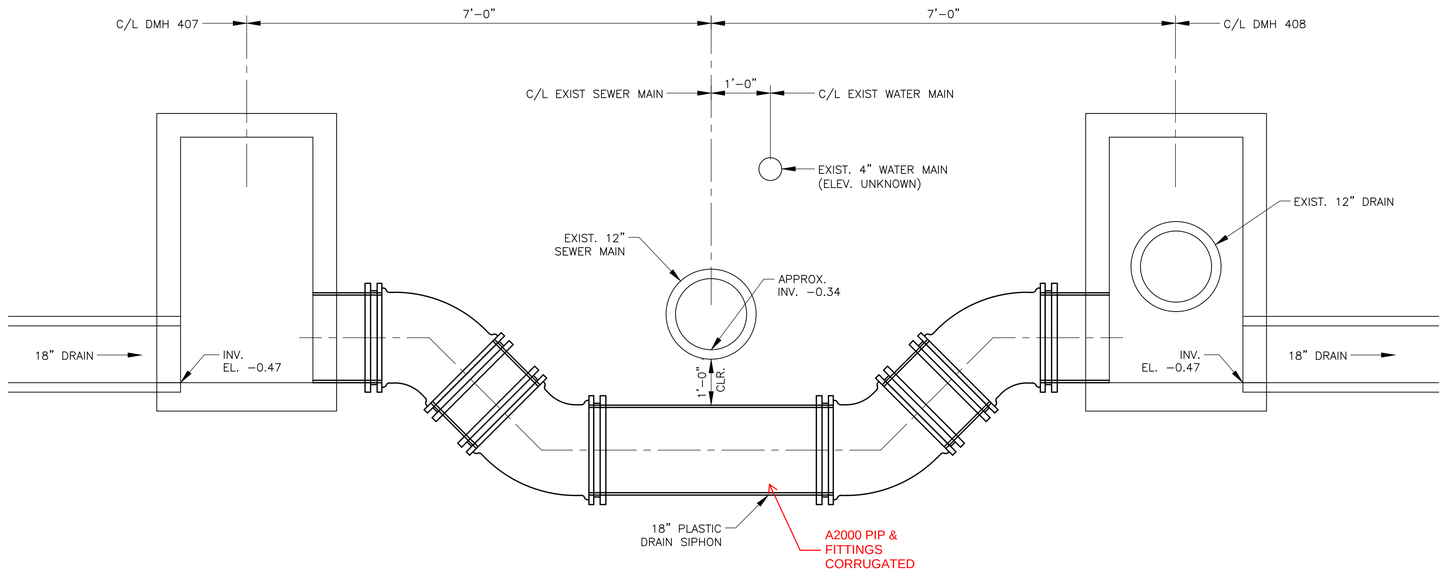
BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901 • FAX (504)488-1714

BKI JOB # – 9344-8320 BASE BID

DESIGNED	R.P.
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC. 2021
SHEET	1 of 2

NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: C:\USERS\SGALATAS\DESKTOP\NO.16.010_ARCHIVE COPY_DRAWINGS\C3A-SPECIAL DETAILS.DWG



DRAIN SIPHON DETAIL

N.T.S.

SHEET NUMBER C3B

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

DRAIN SIPHON DETAIL

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901 • FAX (504)488-1714

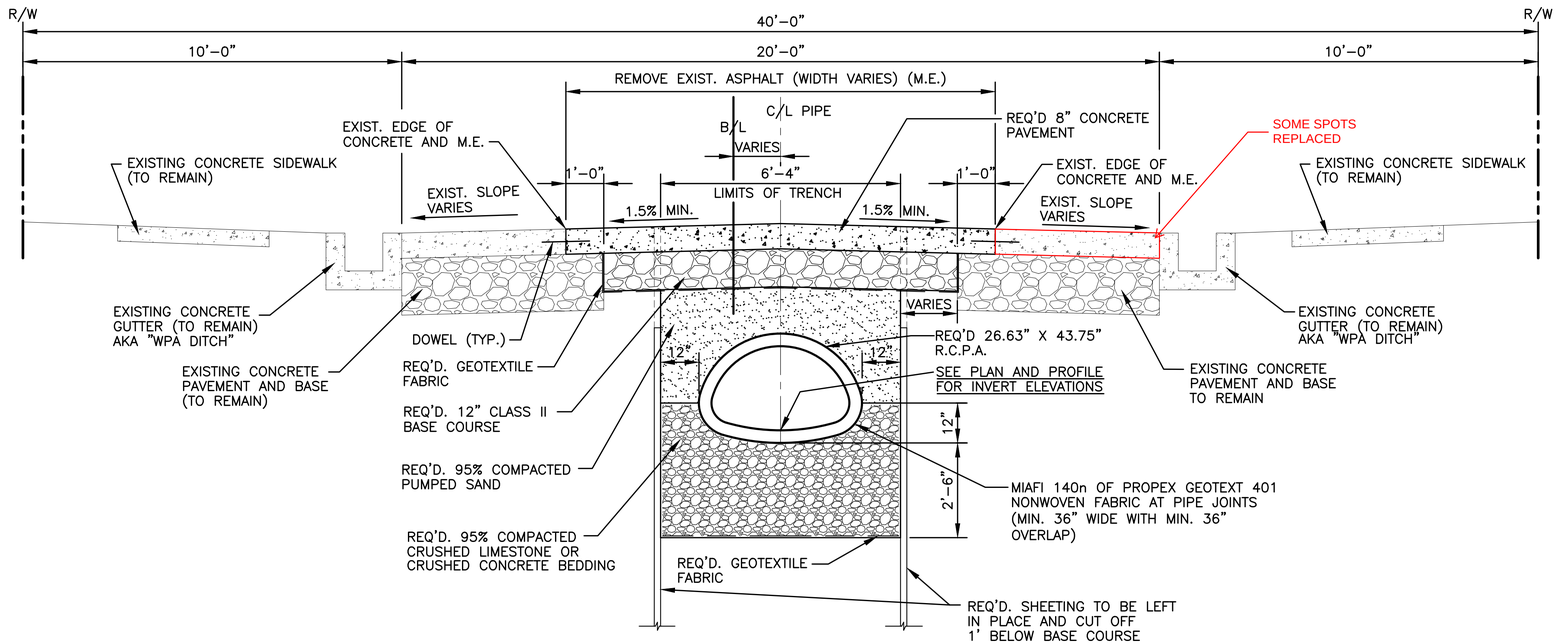
BKI JOB # – 9344-8320 BASE BID

DESIGNED	R.P.
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC. 2021
SHEET	2 OF 2

NO.	DATE	REVISION DESCRIPTION	BY

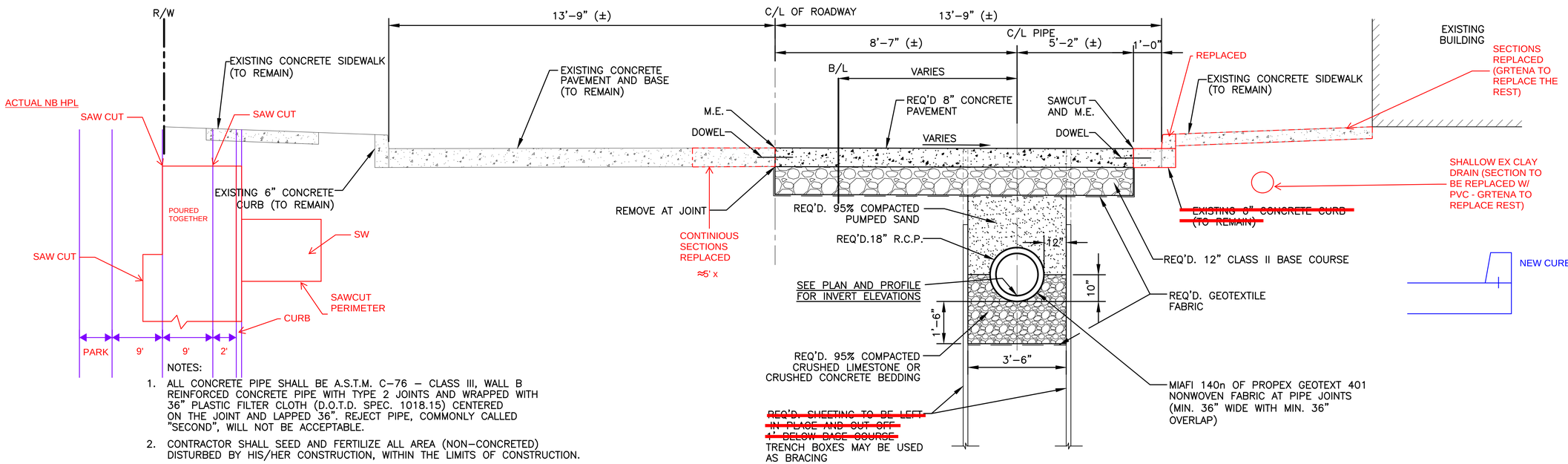
STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

FILE NAME: C:\USERS\SGALATAS\DESKTOP\NO.16.010_ARCHIVE COPY_DRAWINGS\C3B-SPECIAL DETAILS.DWG



TYPICAL SECTION – THIRD STREET
STA. 11+15 TO 20+87

SCALE: N.T.S.



NOTES:

1. ALL CONCRETE PIPE SHALL BE A.S.T.M. C–76 – CLASS III, WALL B REINFORCED CONCRETE PIPE WITH TYPE 2 JOINTS AND WRAPPED WITH 36" PLASTIC FILTER CLOTH (D.O.T.D. SPEC. 1018.15) CENTERED ON THE JOINT AND LAPPED 36". REJECT PIPE, COMMONLY CALLED "SECOND", WILL NOT BE ACCEPTABLE.
2. CONTRACTOR SHALL SEED AND FERTILIZE ALL AREA (NON–CONCRETED) DISTURBED BY HIS/HER CONSTRUCTION, WITHIN THE LIMITS OF CONSTRUCTION.
3. UNLESS OTHERWISE NOTED ON THE PLAN–PROFILE DRAWINGS, ALL EXISTING SIDEWALKS, DRIVEWAYS AND CURBS ARE NOT TO BE DISTURBED.
4. CROSS SLOPES VARY – SEE PLAN–PROFILES FOR REQ'D. CENTERLINE GRADES.
5. SEE PLAN–PROFILE SHEETS FOR HORIZONTAL ALIGNMENT OF REQ'D. DRAIN PIPE.
6. CONTRACTOR TO LOCATE AND PROTECT ALL EXIST. UTILITIES TO REMAIN.
7. SIDE BEDDING WIDTH MAY BE REDUCED WITH CITY ENGINEER APPROVAL.

TYPICAL SECTION – HUEY P. LONG (NORTHBOUND)
STA. 13+75 TO 16+96

SCALE: N.T.S.

BARRIERE SIDE

CA NOTE:
- BEDDING UP TO TOP OF PIPE IN CONFLICT LOCATIONS.

STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

SHEET NUMBER C4

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)
TYPICAL SECTIONS

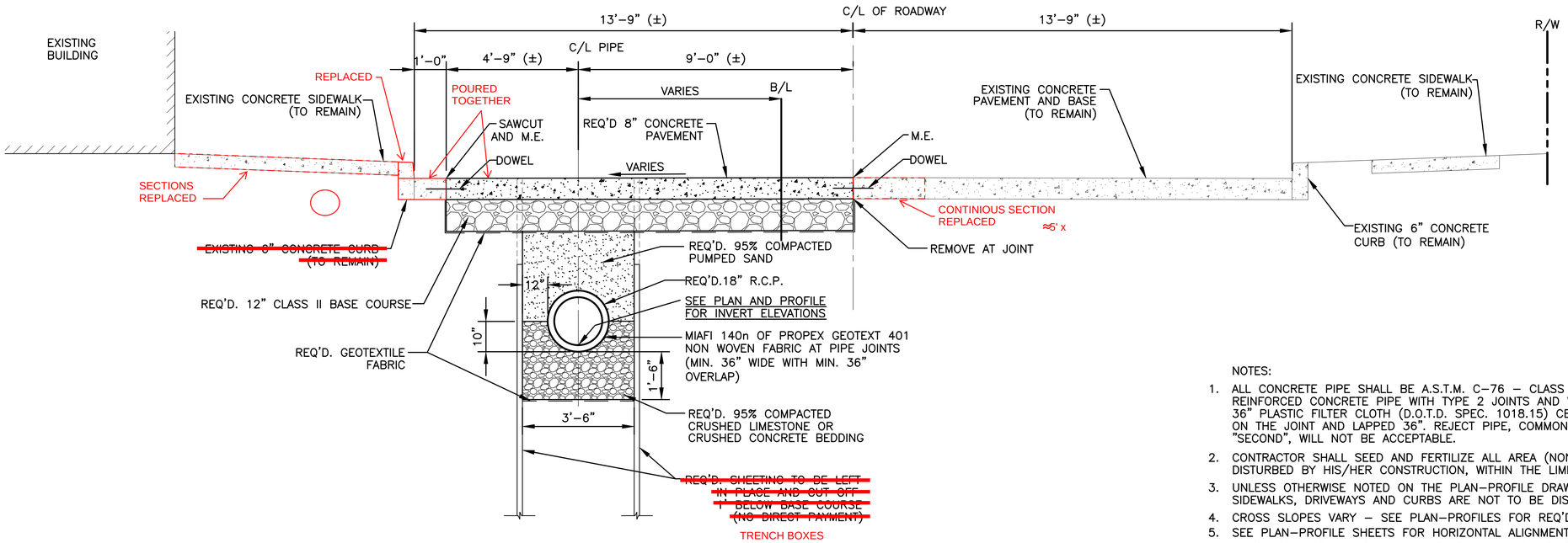
BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119–5994
PHONE (504)486–5901•FAX (504)488–1714

BKI JOB # –9344–8320 BASE BID

DESIGNED R.P.	DETAILED S.G.	DATE DEC. 2021
CHECKED D.B.	CHECKED D.B.	SHEET 1 OF 3

NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: C:\USERS\SGALATAS\DESKTOP\NO.16.010_ARCHIVE COPY_DRAWINGS\C4-C6-TYPICAL SECTIONS.DWG



TYPICAL SECTION – HUEY P. LONG (SOUTHBOUND)
STA. 13+75 TO 16+96

SCALE: N.T.S.

KASS SIDE

NOTES:

1. ALL CONCRETE PIPE SHALL BE A.S.T.M. C–76 – CLASS III, WALL B REINFORCED CONCRETE PIPE WITH TYPE 2 JOINTS AND WRAPPED WITH 36" PLASTIC FILTER CLOTH (D.O.T.D. SPEC. 1018.15) CENTERED ON THE JOINT AND LAPPED 36". REJECT PIPE, COMMONLY CALLED "SECOND", WILL NOT BE ACCEPTABLE.
2. CONTRACTOR SHALL SEED AND FERTILIZE ALL AREA (NON–CONCRETED) DISTURBED BY HIS/HER CONSTRUCTION, WITHIN THE LIMITS OF CONSTRUCTION.
3. UNLESS OTHERWISE NOTED ON THE PLAN–PROFILE DRAWINGS, ALL EXISTING SIDEWALKS, DRIVEWAYS AND CURBS ARE NOT TO BE DISTURBED.
4. CROSS SLOPES VARY – SEE PLAN–PROFILES FOR REQ'D. CENTERLINE GRADES.
5. SEE PLAN–PROFILE SHEETS FOR HORIZONTAL ALIGNMENT OF REQ'D. DRAIN PIPE.
6. CONTRACTOR TO LOCATE AND PROTECT ALL EXIST. UTILITIES TO REMAIN.
7. SIDE BEDDING WIDTH MAY BE REDUCED WITH CITY ENGINEER APPROVAL.

CA NOTE:
- BEDDING UP TO TOP OF PIPE IN CONFLICT LOCATIONS.

STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

SHEET NUMBER C5

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)
TYPICAL SECTIONS

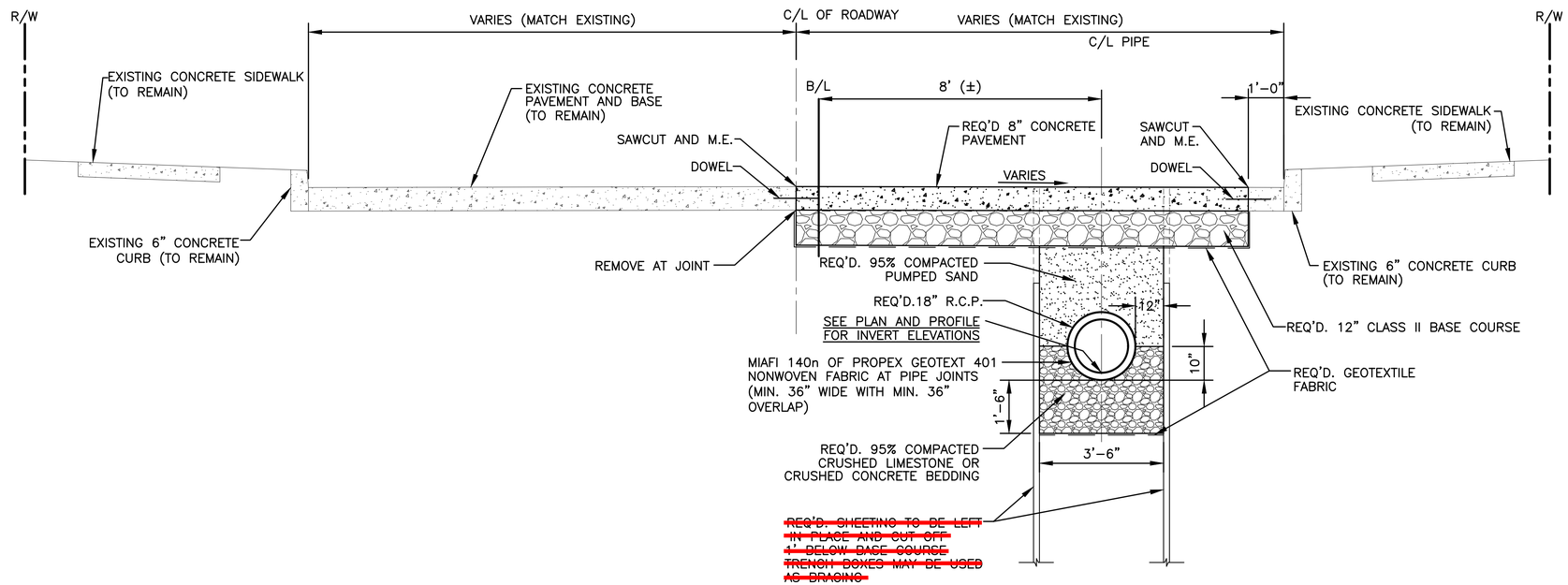
BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # – 9344-8320 BASE BID

DESIGNED	R.P.
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC. 2021
SHEET	2 OF 3

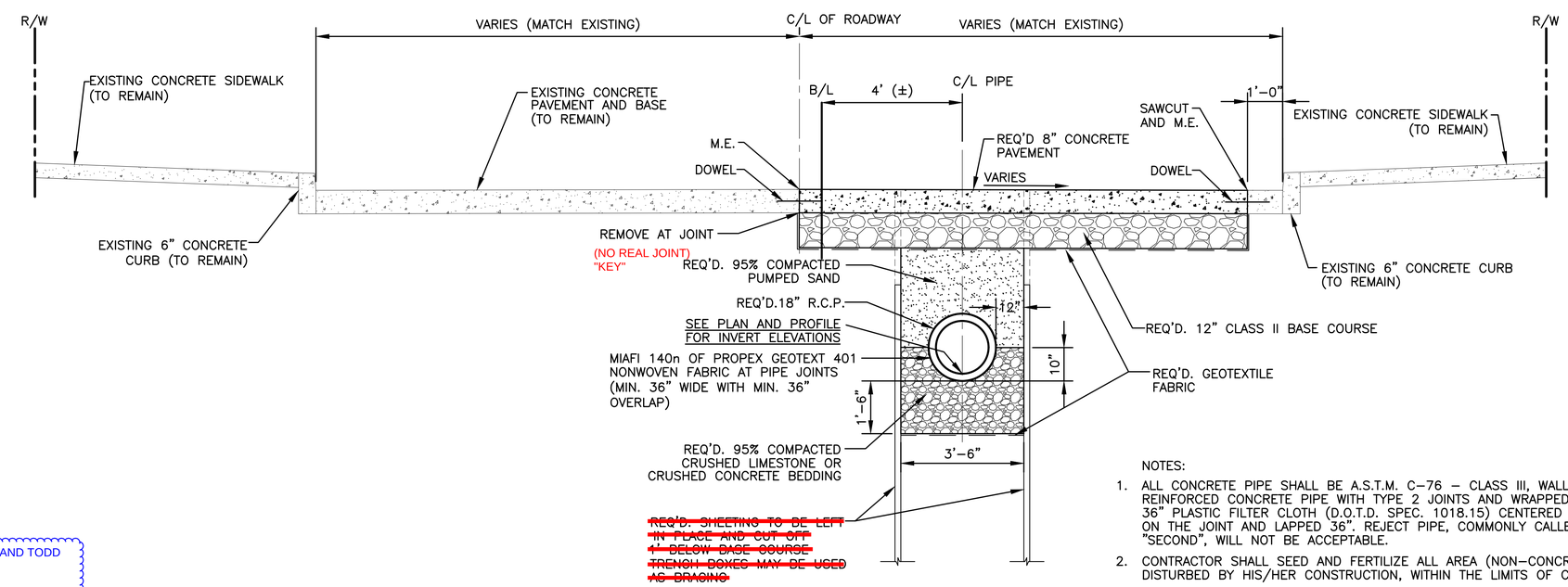
NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: C:\USERS\SGALATAS\DESKTOP\NO.16.010_ARCHIVE COPY_DRAWINGS\C4-C6-TYPICAL SECTIONS.DWG



TYPICAL SECTION – LAVOISIER ST.
STA. 13+46.91 TO 17+06.63

SCALE: N.T.S.



TYPICAL SECTION – NEWTON ST.
STA. 13+47.24 TO 17+08.54

SCALE: N.T.S.

KASS SIDE

07/25/22 - SITE DISCUSSION WITH CODY AND TODD

- ONLY 8-9' TRENCH
- REPLACE PAVEMENT ONLY (IF/WHEN CRACKED)
- SAWCUT ≈3-4' OFF DW/ WRB
- CODY IS TO SEND SKETCH WITH FINAL DIMENSIONS

NOTES:

1. ALL CONCRETE PIPE SHALL BE A.S.T.M. C–76 – CLASS III, WALL B REINFORCED CONCRETE PIPE WITH TYPE 2 JOINTS AND WRAPPED WITH 36" PLASTIC FILTER CLOTH (D.O.T.D. SPEC. 1018.15) CENTERED ON THE JOINT AND LAPPED 36". REJECT PIPE, COMMONLY CALLED "SECOND", WILL NOT BE ACCEPTABLE.
2. CONTRACTOR SHALL SEED AND FERTILIZE ALL AREA (NON–CONCRETED) DISTURBED BY HIS/HER CONSTRUCTION, WITHIN THE LIMITS OF CONSTRUCTION.
3. UNLESS OTHERWISE NOTED ON THE PLAN–PROFILE DRAWINGS, ALL EXISTING SIDEWALKS, DRIVEWAYS AND CURBS ARE NOT TO BE DISTURBED.
4. CROSS SLOPES VARY – SEE PLAN–PROFILES FOR REQ'D. CENTERLINE GRADES.
5. SEE PLAN–PROFILE SHEETS FOR HORIZONTAL ALIGNMENT OF REQ'D. DRAIN PIPE.
6. CONTRACTOR TO LOCATE AND PROTECT ALL EXIST. UTILITIES TO REMAIN.
7. SIDE BEDDING WIDTH MAY BE REDUCED WITH CITY ENGINEER APPROVAL.

STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

SHEET NUMBER C6

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)
TYPICAL SECTIONS

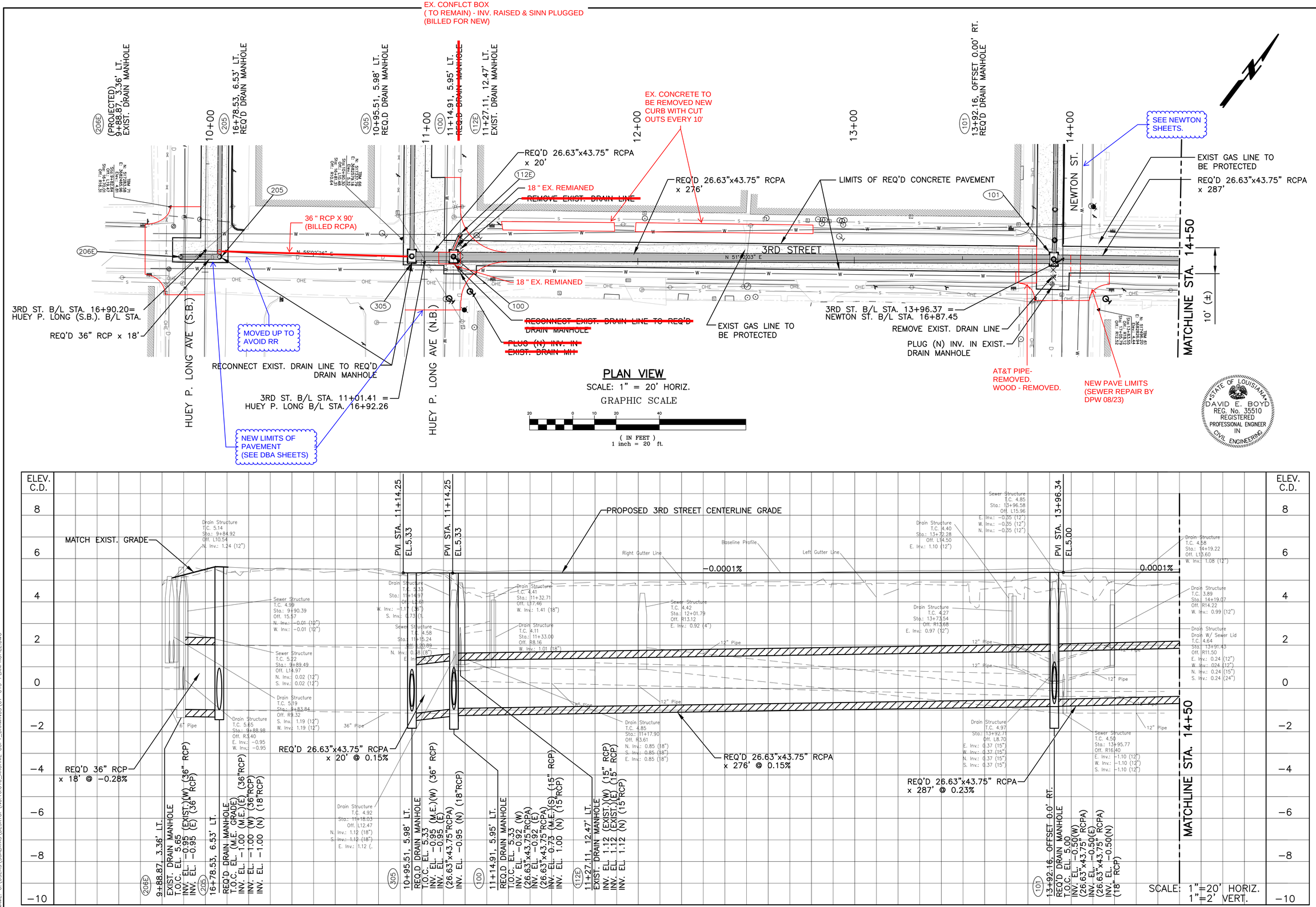
BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # – 9344-8320 BASE BID

DESIGNED	R.P.
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC. 2021
SHEET	3 OF 3

NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: C:\USERS\SGALATAS\DESKTOP\NO.16.010_ARCHIVE COPY_DRAWINGS\C4-C6-TYPICAL SECTIONS.DWG



SHEET NUMBER C7

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

PLAN PROFILE

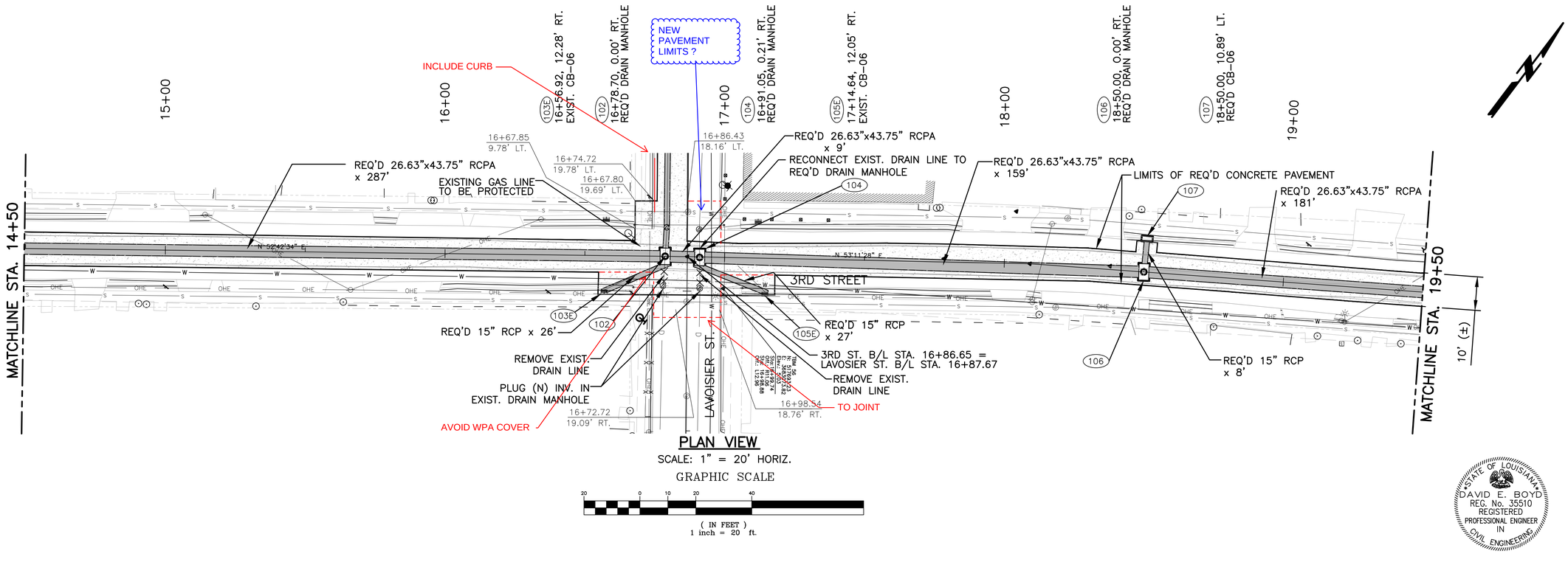
BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # - 9344-8320- BASE BID

DESIGNED	R.P.	DETAILED	S.G.	DATE	DEC. 2021
CHECKED	D.B.	CHECKED	D.B.	SHEET	1 OF 9

NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: C:\USERS\SGALATAS\DESKTOP\V0.16.010_ARCHIVE COPY_DRAWINGS\C7-C15-PLANPROFILE.DWG



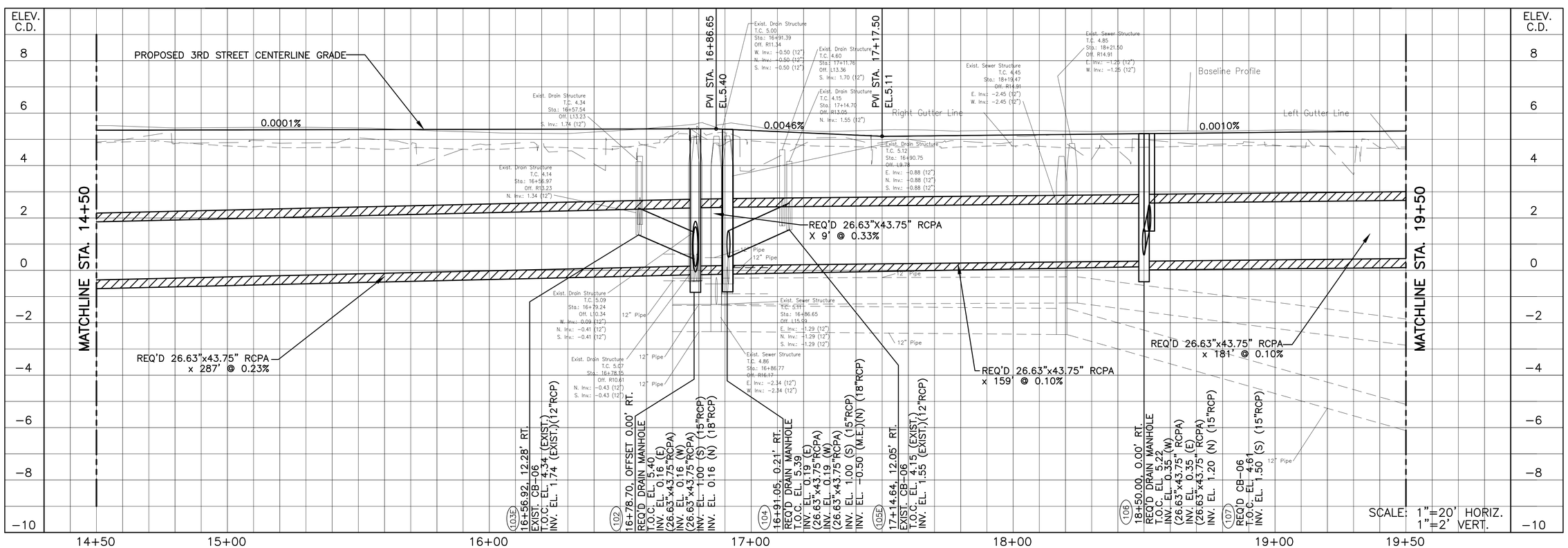
PLAN VIEW

SCALE: 1" = 20' HORIZ.

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

SHEET NUMBER C8

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

PLAN PROFILE

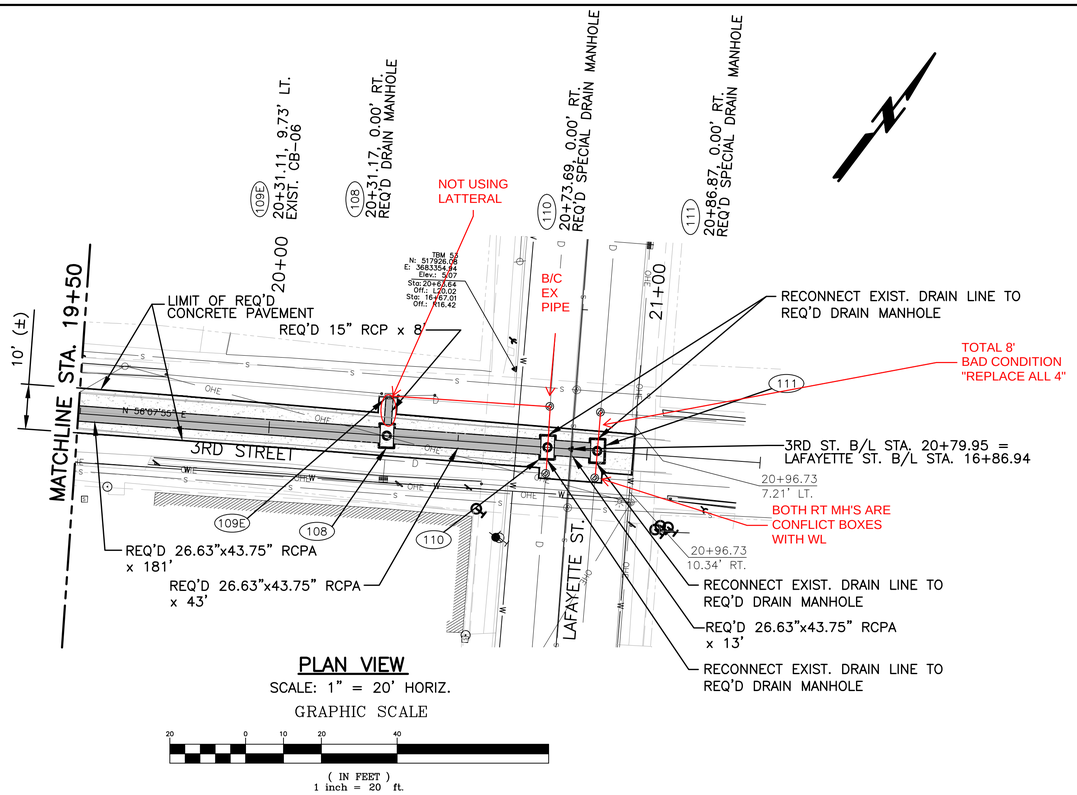
BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # – 9344-8320– BASE BID

DESIGNED	R.P	DETAILED	S.G.
CHECKED	D.B.	CHECKED	D.B.
DATE	DEC. 2021	SHEET	2 OF 9

NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: C:\USERS\SGALATAS\DESKTOP\N0.16.010_ARCHIVE COPY_DRAWINGS\C7-C15-PLANPROFILE.DWG



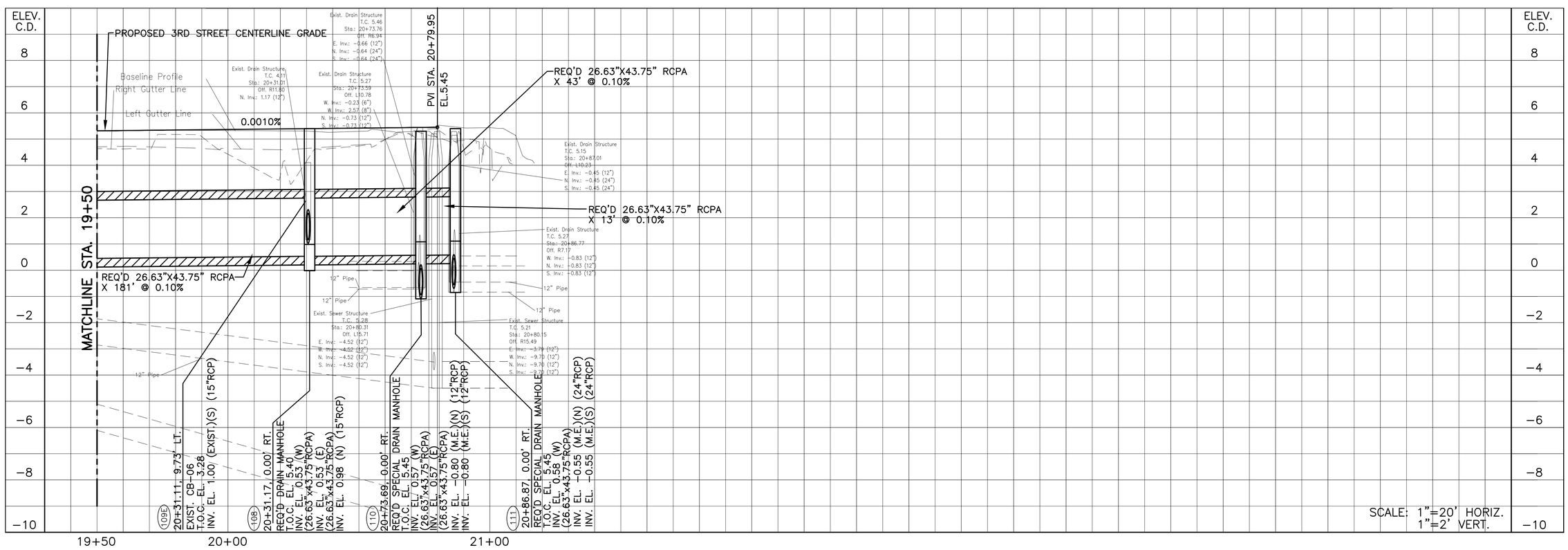
PLAN VIEW

SCALE: 1" = 20' HORIZ.

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

SHEET NUMBER C9

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

PLAN PROFILE

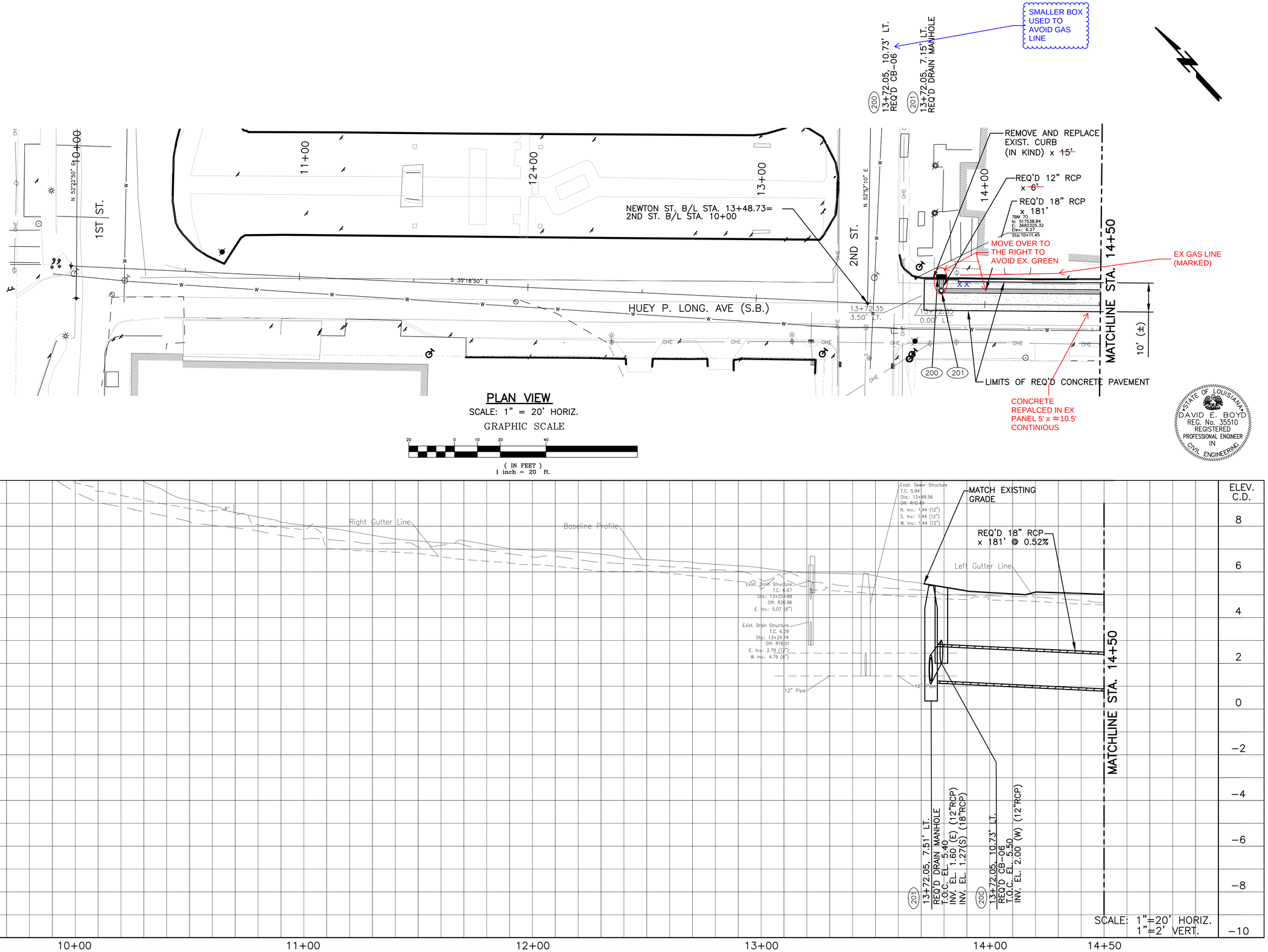
BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # – 9344-8320– BASE BID

DESIGNED	R.P	
CHECKED	D.B.	
DETAILED	S.G.	
CHECKED	D.B.	
DATE	DEC. 2021	
SHEET	3 OF 9	

NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: C:\USERS\SGALATAS\DESKTOP\NO.16.010_ARCHIVE COPY_DRAWINGS\C7-C15-PLANPROFILE.DWG



STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

SHEET NUMBER C10

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

PLAN PROFILE

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # – 9344-8320– BASE BID

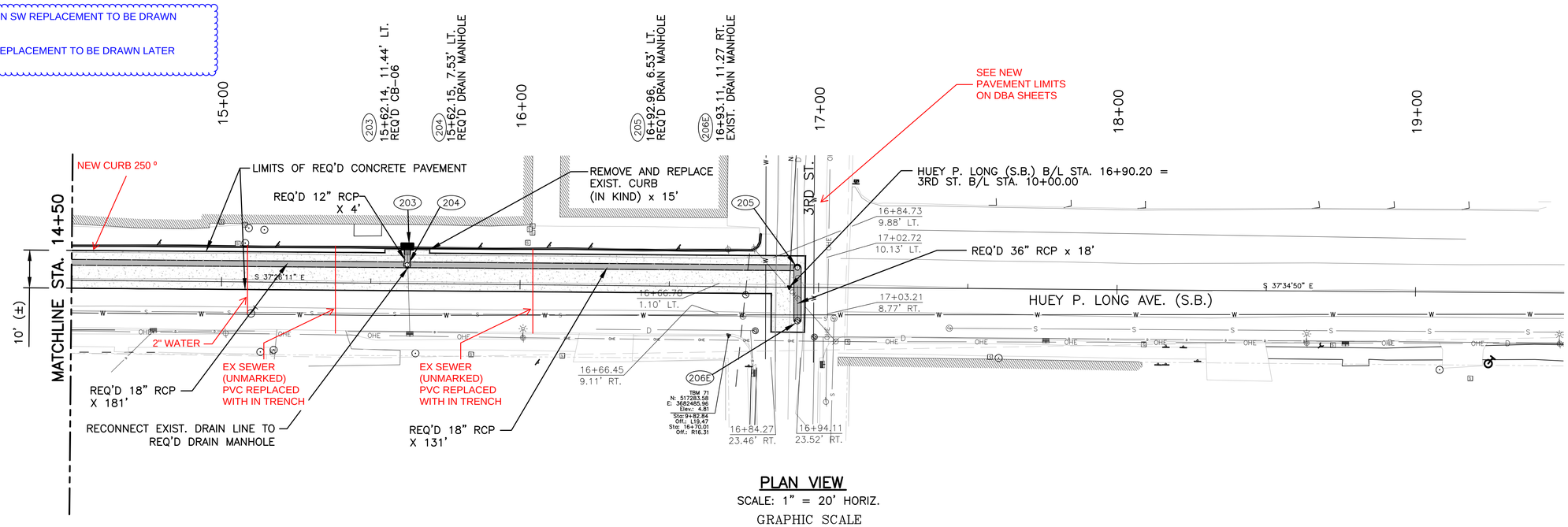
DESIGNED	R.P
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC. 2021
SHEET	4 OF 9

NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: C:\USERS\SGALATAS\DESKTOP\NO.16.010_ARCHIVE COPY_DRAWINGS\C7-C15-PLANPROFILE.DWG

- COPY PIPE IN SW REPLACEMENT TO BE DRAWN LATER

- EX PANEL REPLACEMENT TO BE DRAWN LATER



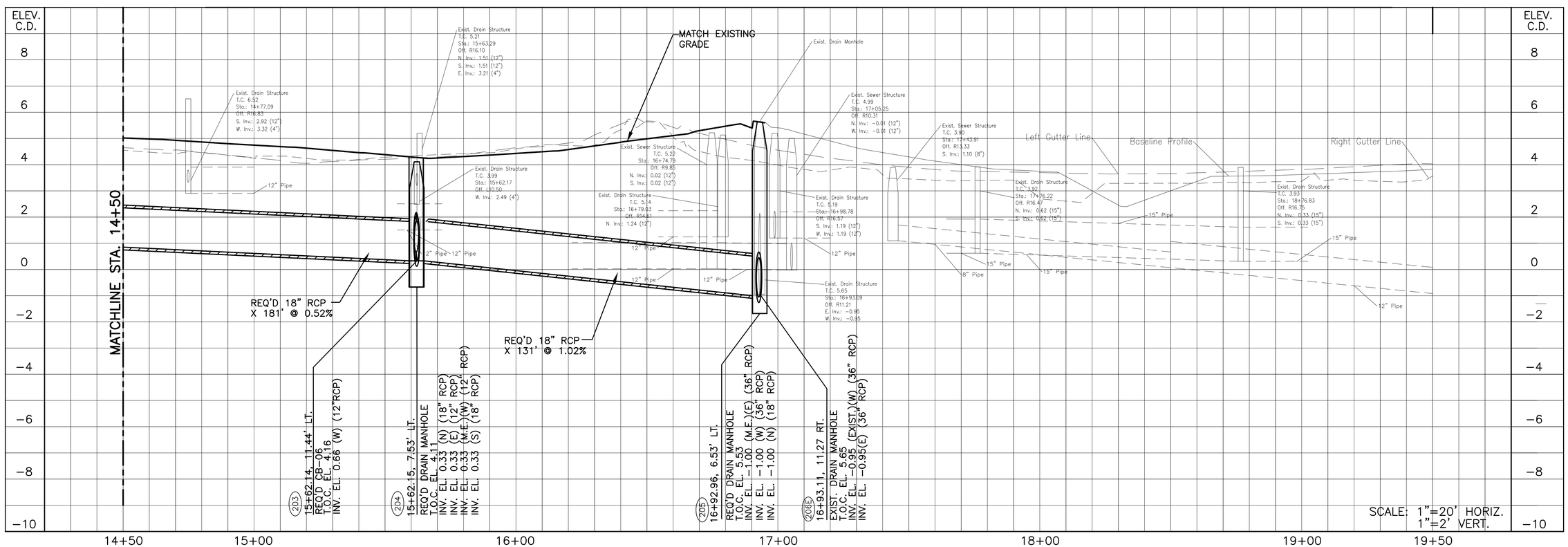
PLAN VIEW

SCALE: 1" = 20' HORIZ.

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

SHEET NUMBER C11

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

PLAN PROFILE

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

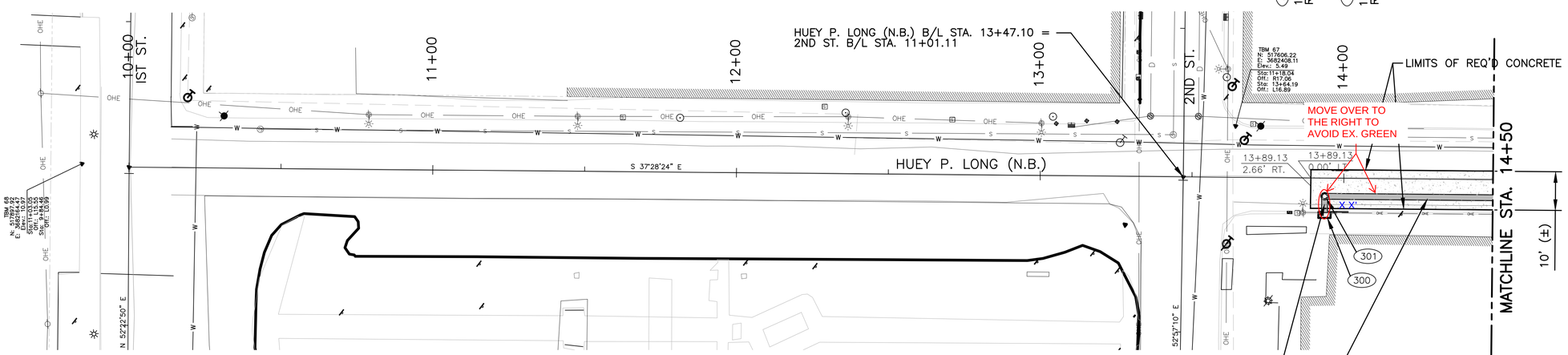
BKI JOB # – 9344-8320– BASE BID

DESIGNED	R.P	DETAILED	S.G.
CHECKED	D.B.	CHECKED	D.B.
DATE	DEC. 2021		
SHEET	5 OF 9		

NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: C:\USERS\SGALATAS\DESKTOP\NO.16.010_ARCHIVE COPY_DRAWINGS\C7-C15-PLANPROFILE.DWG

- EX PANEL REPLACEMENT TO BE DRAWN LATER



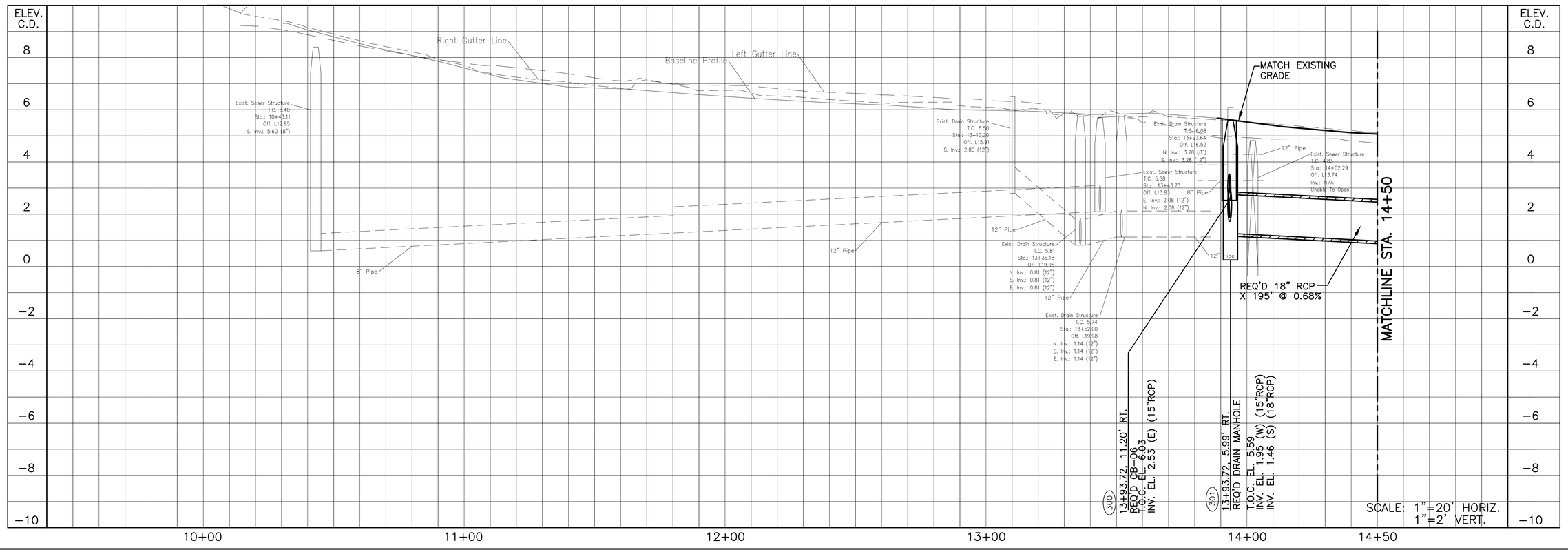
PLAN VIEW

SCALE: 1" = 20' HORIZ.

GRAPHIC SCALE

20 0 10 20 40

(IN FEET)
1 inch = 20 ft.



STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED
PROFESSIONAL ENGINEER
IN
CIVIL ENGINEERING

SHEET NUMBER C12

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

PLAN PROFILE

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

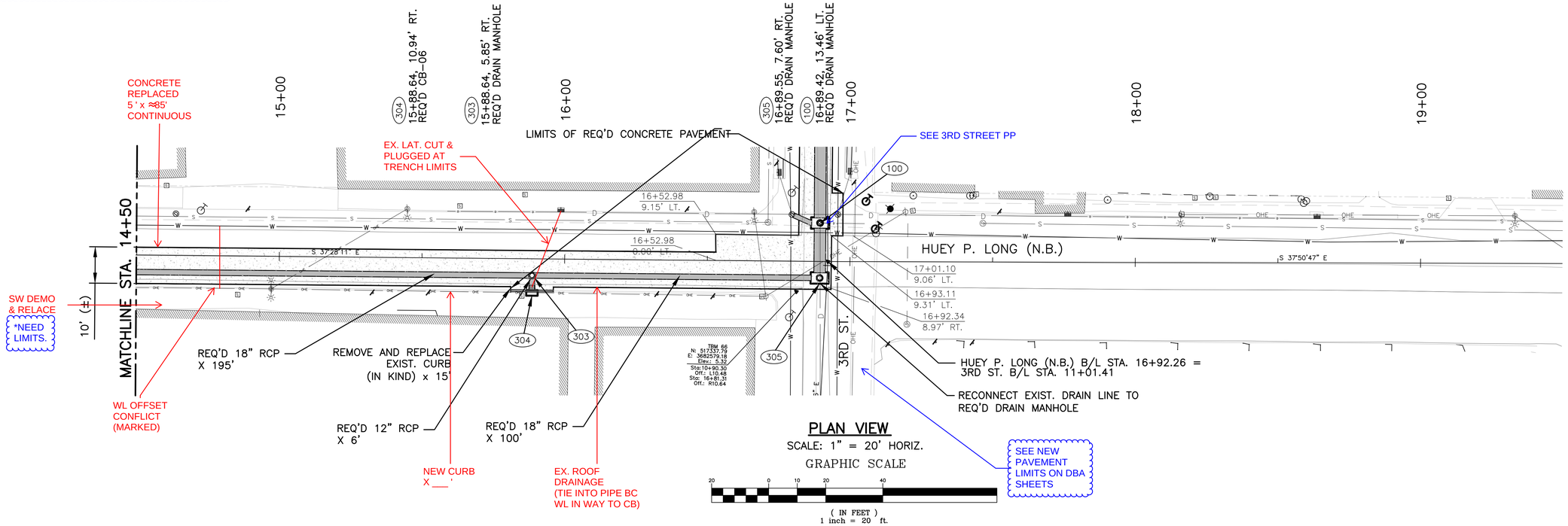
BKI JOB # – 9344-8320– BASE BID

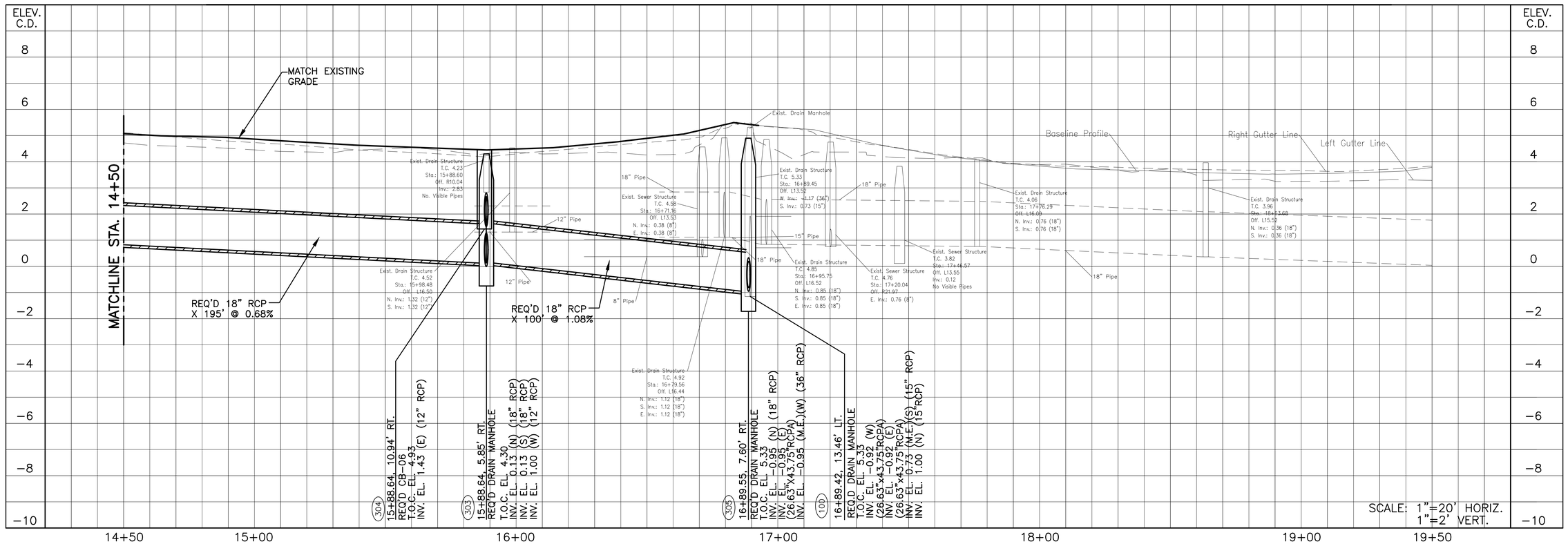
DESIGNED R.P.	DETAILED S.G.
CHECKED D.B.	CHECKED D.B.
DATE DEC. 2021	SHEET 6 OF 9

NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: C:\USERS\SGALATAS\DESKTOP\NO.16.010_ARCHIVE COPY_DRAWINGS\C7-C15-PLANPROFILE.DWG

- CLAY PIPE & SW REPLACEMENT TO BE DRAWN LATER.





SHEET NUMBER C13

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

PLAN PROFILE

STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

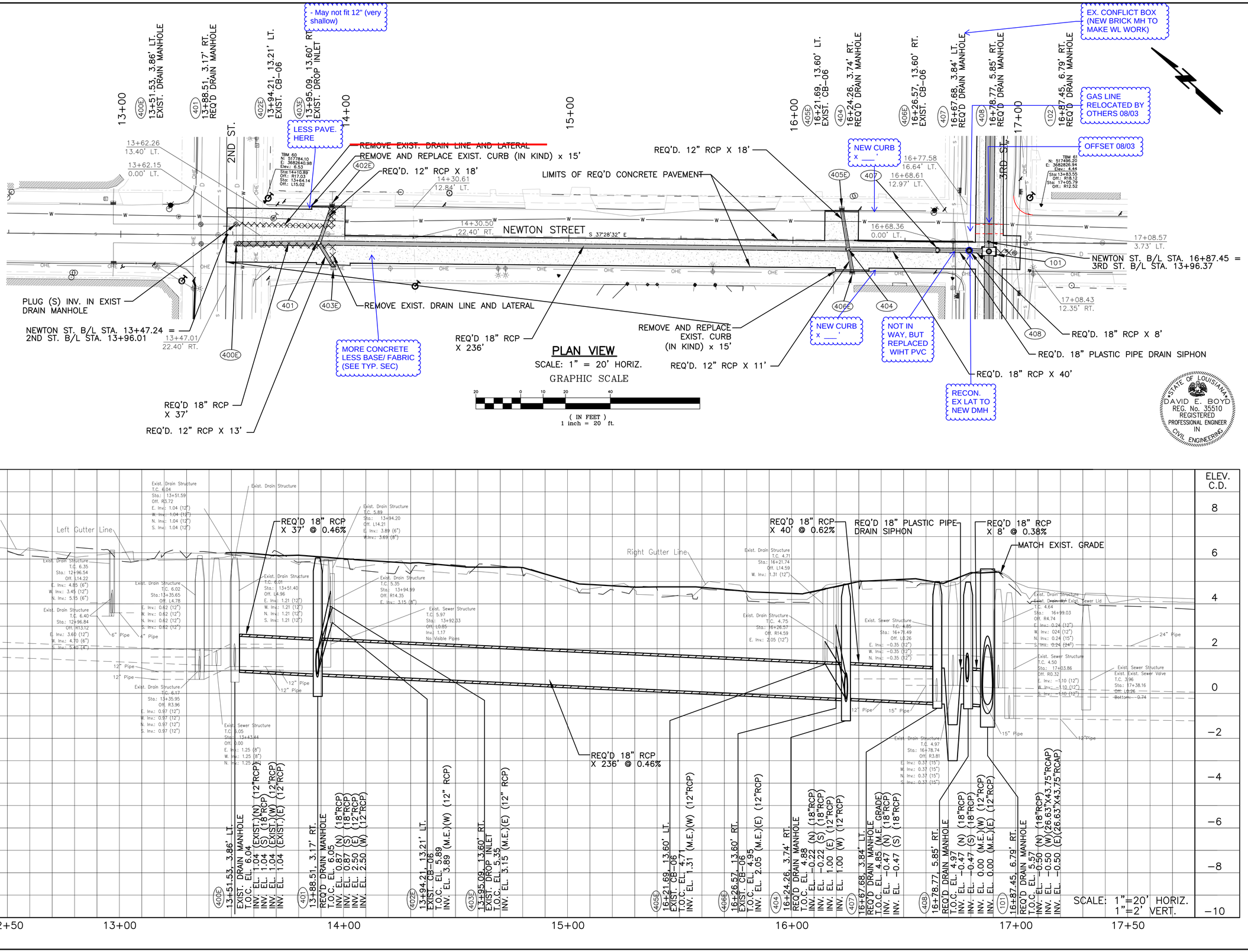
BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # – 9344-8320– BASE BID

DESIGNED	R.P.
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC. 2021
SHEET	7 OF 9

NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: G:\USERS\SGALATAS\DESKTOP\NO.16.010_ARCHIVE COPY_DRAWINGS\C7-C15-PLANPROFILE.DWG



SHEET NUMBER C14

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

PLAN PROFILE

STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

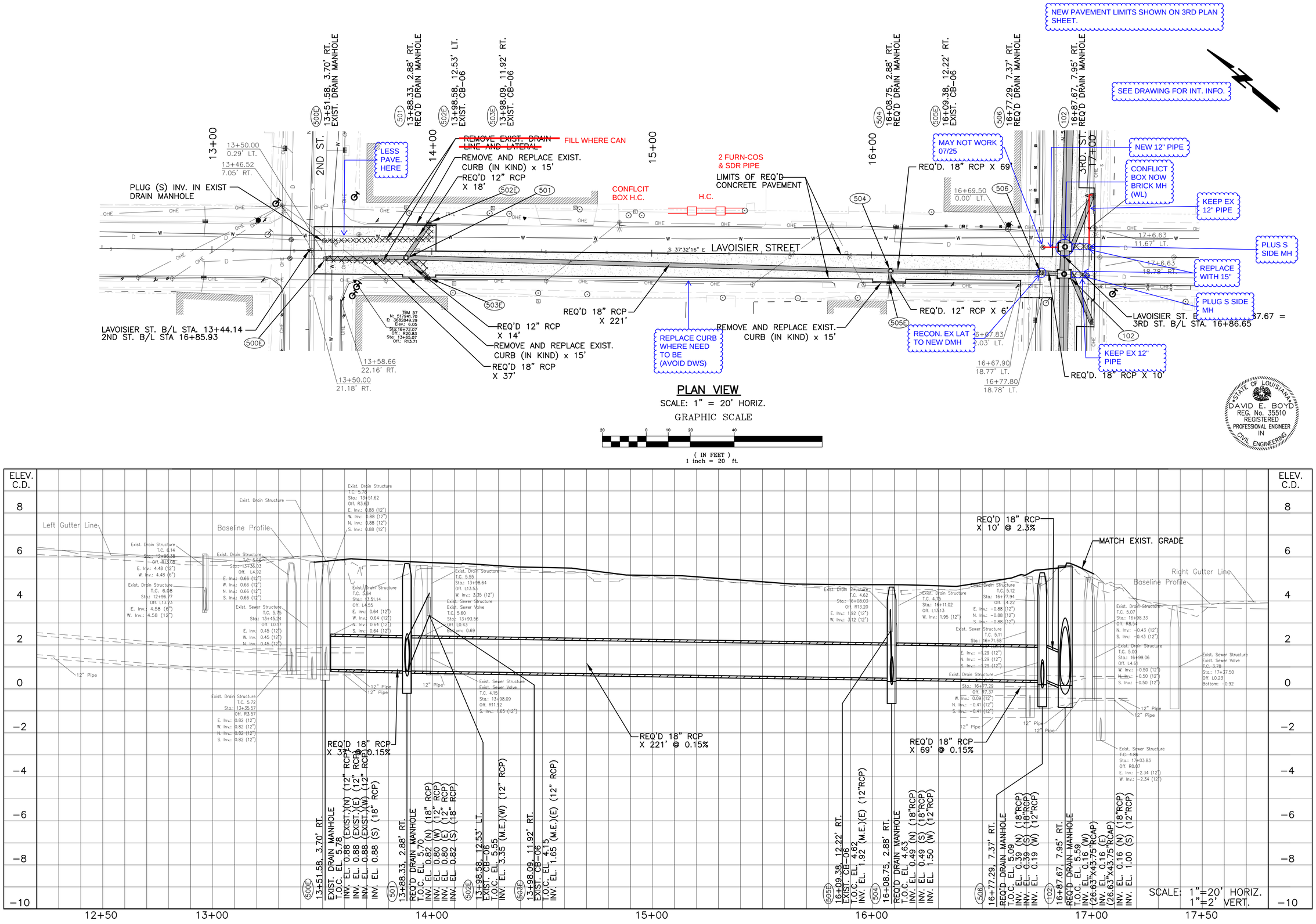
BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901 • FAX (504)488-1714

BKI JOB # – 9344-8320– BASE BID

DESIGNED	R.P.	DETAILED	S.G.	DATE	DEC. 2021
CHECKED	D.B.	CHECKED	D.B.	SHEET	8 OF 9

NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: C:\USERS\SGALATAS\DESKTOP\NO.16.010_ARCHIVE COPY_DRAWINGS\C7-C15-PLANPROFILE.DWG



STATE OF LOUISIANA
DAVID E. BOYD
REG. No. 35510
REGISTERED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

SHEET NUMBER C15

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

PLAN PROFILE

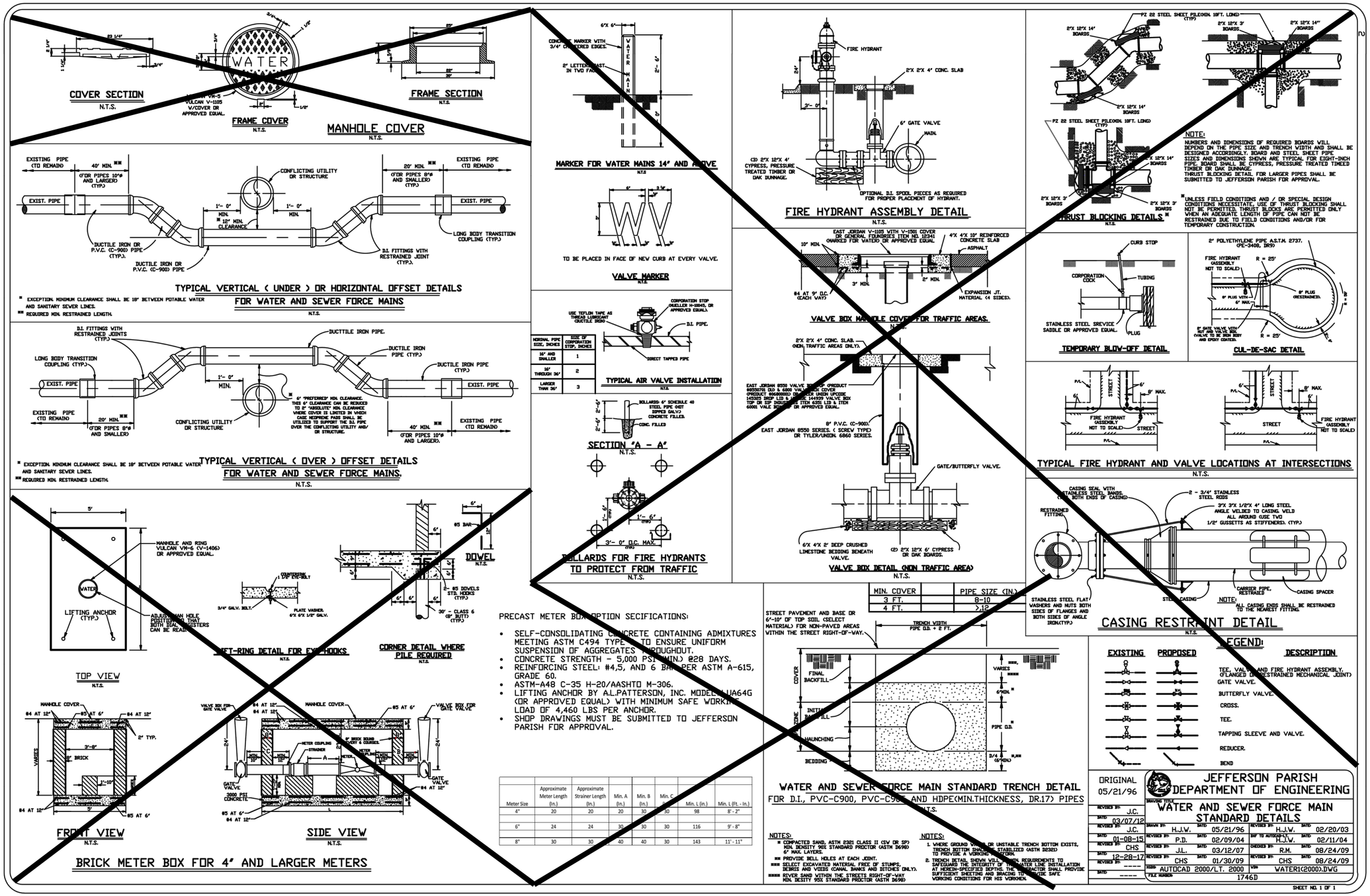
BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # - 9344-8320-BASE BID

DESIGNED	R.P
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC. 2021
SHEET	9 OF 9

NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: G:\USERS\SGALATAS\DESKTOP\NO.16.010_ARCHIVE COPY_DRAWINGS\C7-C15-PLANPROFILE.DWG



MIN. COVER	PIPE SIZE (IN.)
3 FT.	8-10
4 FT.	>,12

Meter Size	Approximate Meter Length (In.)	Approximate Strainer Length (In.)	Min. A (In.)	Min. B (In.)	Min. C (In.)	Min. L (In.)	Min. L (Ft. - In.)
4"	20	20	20	30	30	98	8' - 2"
6"	24	24	30	30	30	116	9' - 8"
8"	30	30	40	40	30	143	11' - 11"

NORMAL PIPE SIZE, INCHES	SIZE OF CORPORATION STOP, INCHES
16" AND SMALLER	1
16" THROUGH 36"	2
LARGER THAN 36"	3

SHEET NUMBER STD1

CITY OF GRETNA LOUISIANA

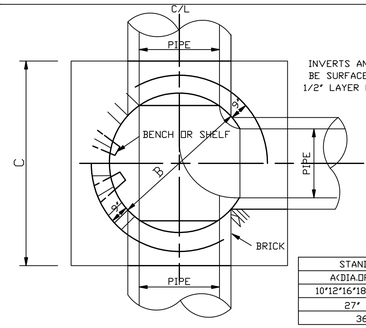
GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)
WATER & SEWER FORCE MAIN STANDARD DETAILS

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # - 9344-8320 BASE BID

DESIGNED	R.P
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC., 2021
SHEET	1 OF 9

NO.	DATE	REVISION DESCRIPTION	BY

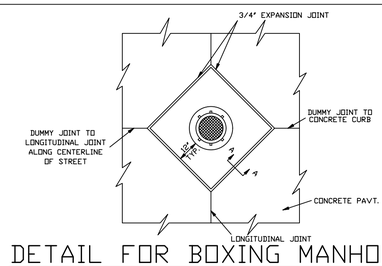


NOTE:
INVERTS AND BENCHES SHALL BE SURFACED WITH A MIN. OF 1/2" LAYER OF CEMENT MORTAR.

STANDARD M.H. SCHEDULE		
A(DIA.OF PIPE)	B	C
10"12"16"18"21"24"	4'0"	6'4"
27" 30"	4'6"	6'10"
36"	5'0"	7'4"

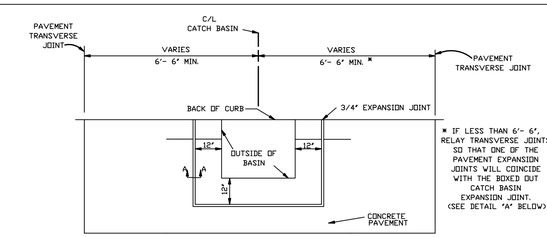
PLAN OF DRAINAGE MANHOLE

N.T.S.



DETAIL FOR BOXING MANHOLE

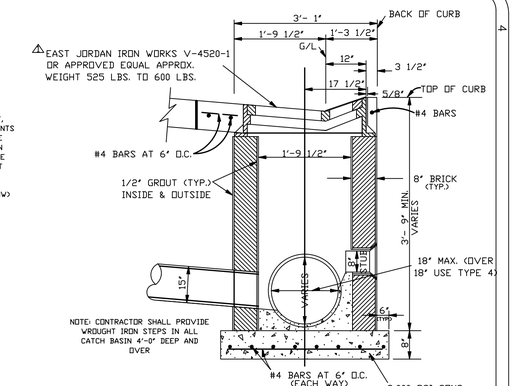
N.T.S.



* IF LESS THAN 6'- 6", RELAY TRANSVERSE JOINTS SO THAT ONE OF THE PAVEMENT EXPANSION JOINTS WILL COINCIDE WITH THE BOXED OUT CATCH BASIN EXPANSION JOINT. (SEE DETAIL "A" BELOW)

DETAIL FOR BOXING CATCH BASIN (TYPES 2 & 3)

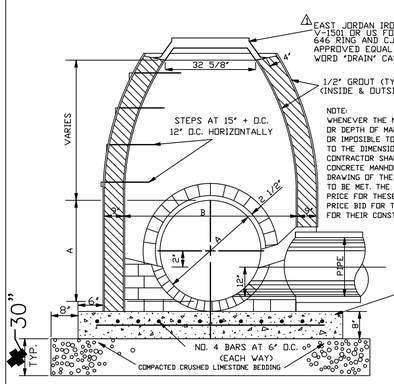
N.T.S.



NOTE: CONTRACTOR SHALL PROVIDE WROUGHT IRON STEPS IN ALL CATCH BASIN 4'-0" DEEP AND OVER

SIDE ELEVATION OF ROLLOVER CATCH BASIN TYPE 2

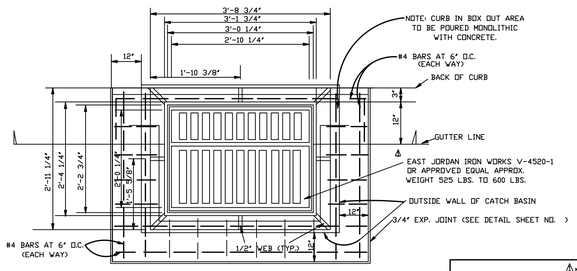
N.T.S.



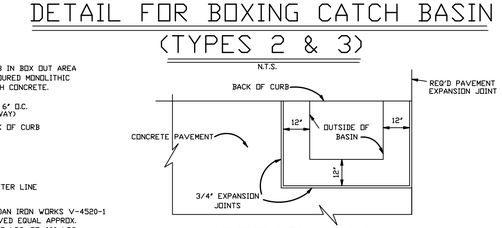
NOTE:
WHENEVER THE NUMBER OF OR SIZE OF PIPES OR DEPTH OF MANHOLE MAKE IT IMPRACTICAL OR IMPOSIBLE TO CONSTRUCT A SOUND M.H. TO THE DIMENSIONS OR SHAPE SHOWN. THE CONTRACTOR SHALL CONSTRUCT A REINFORCED CONCRETE MANHOLE IN ACCORDANCE WITH THE DRAWING OF THE DOTD FOR THE CONDITIONS TO BE MET. THE CONTRACTOR SHALL INCLUDE THE PRICE FOR THESE SPECIAL MANHOLES IN HIS PRICE BID FOR THE WORK AND NO EXTRA WILL BE PAID FOR THEIR CONSTRUCTION WHEN REQUIRED.

DRAINAGE MANHOLE

N.T.S.



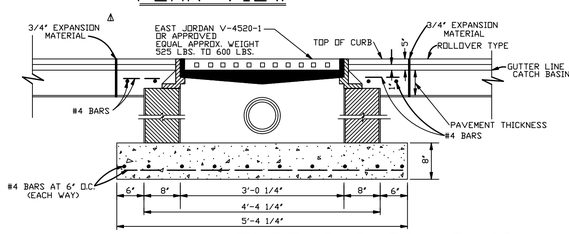
TYPE 2 CATCH BASIN PLAN VIEW



DETAIL "A"

(N.T.S.)
(USE THIS DETAIL WHEN THE DISTANCE BETWEEN CENTERLINE OF CATCH BASIN AND THE NEAREST TRANSVERSE JOINT IS LESS THAN 6'- 6").

NOTE:
ALL GREY IRON CASTINGS FOR MANHOLES, AND CATCH BASINS OF ALL TYPES SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A-48, CLASS 30. AND SHALL BE FURNISHED WITHOUT PAINT (AASHTO#M306-89).

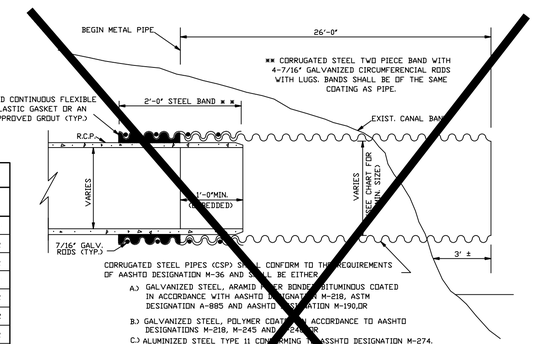


TYPE 2 CATCH BASIN SECTION ALONG GUTTER LINE

N.T.S.

CANAL DISCHARGE PIPE CHART (C.S.P.)				
R.C.P. NOM. DIA.	WALL THICKNESS	R.C.P. O.D.	REQ'D C.S.P. I.D.	GAGE REQ'D
12"	2"	16"	16.5"	△ 14
15"	2.25"	19.5"	20"	△ 12
18"	2.5"	23"	23.5"	△ 12
21"	2.75"	26.5"	27"	△ 12
24"	3"	30"	30.5"	△ 12
27"	3.25"	33.5"	34"	△ 12
30"	3.50"	37"	37.5"	△ 12
36"	4"	44"	44.5"	△ 12
42"	4.5"	51"	51.5"	△ 12
48"	5"	58"	58.5"	△ 12
54"	5.5"	65"	65.5"	✱ 12
60"	6"	72"	72.5"	✱ 12
66"	6.5"	79"	79.5"	✱ 12
72"	7"	86"	86.5"	✱ 12
78"	7.5"	93"	93.5"	✱ 12
84"	8"	100"	100.5"	✱ 12
90"	8.5"	107"	107.5"	✱ 12
96"	9"	114"	114.5"	✱ 12

△ 2 2/3" X 1 1/2" CORRUGATION REQUIRED.
✱ 3" X 1" CORRUGATION REQUIRED.



CORRUGATED STEEL PIPES (CSP) SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M-36 AND SHALL BE EITHER:

A.) GALVANIZED STEEL, ARAMID FIBER BONDED BITUMINOUS COATED IN ACCORDANCE WITH AASHTO DESIGNATION M-218, ASTM DESIGNATION A-885 AND AASHTO DESIGNATION M-190,OR

B.) GALVANIZED STEEL, POLYMER COATED IN ACCORDANCE TO AASHTO DESIGNATIONS M-218, M-245 AND M-246,OR

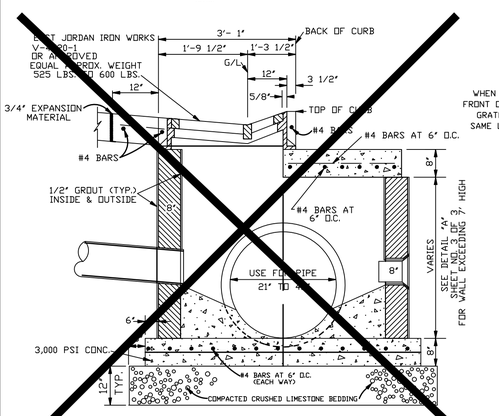
C.) ALUMINIZED STEEL TYPE 11 CONFORMING TO AASHTO DESIGNATION M-274. A ONE FOOT LONG SECTION OF RIVETED LONGITUDINAL SEAM IS TO BE PROVIDED ON THE END OF THE CORRUGATED STEEL PIPE THAT IS TO BE ATTACHED TO THE CONCRETE PIPE.

NOTES:

1. GAGES SHOWN IN THE CHART AT LEFT ARE MINIMUM REQUIREMENTS. LIGHTER GAGES MAY BE ALLOWED SUBJECT TO APPROVAL OF THE DIRECTOR OF ENGINEERING BASED ON SOILS/WATER TABLE AND RESISTIVITY ANALYSIS TAKEN ON SITE BY OTHERS.IN THE EVENT THAT A LIGHTER GAGE IS ALLOWED, THE DESIGN ENGINEER SHALL SPECIFY SUCH GAGE IN THE PLANS AND SPECIFICATIONS.
2. GAGES AND CORRUGATIONS SHOWN ABOVE ARE APPLICABLE TO ROUND PIPES OR ARCH PIPE EQUIVALENTS
3. METAL ARCH PIPE CONNECTIONS TO CONCRETE ARCH OR CIRCULAR PIPE WILL NOT BE PERMITTED.
4. A SET OF LIFTING LUGS SHALL BE PROVIDED ON EACH INDEPENDENT SECTION OF PIPE.
5. PIPE SHALL BE FABRICATED WITH CIRCUMFERENTIAL PARALEL CORRUGATIONS AND SHALL UTILIZE THE RIVETING PROCESS AS OUTLINED IN SECTION 1007.03 OF LADOTA SPECIFICATIONS (1982 EDITION). HELICAL PIPES MIGHT BE USED PROVIDED THEIR ENDS SHALL BE REROLLED TO ACCOMODATE ANNULA BANDS.

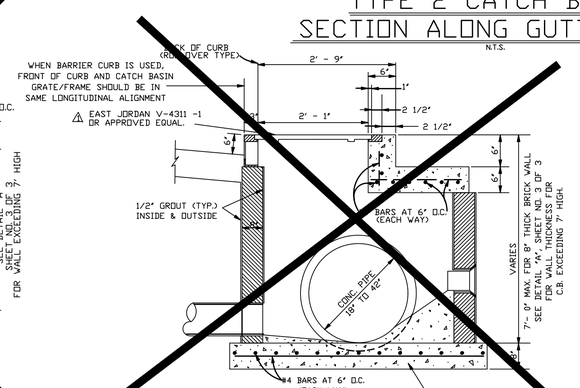
CANAL DISCHARGE PIPE

N.T.S.



TYPE 4 CATCH BASIN

N.T.S.



OFFSET CATCH BASIN TYPE NO. 5

N.T.S.

POLICY STATEMENT

REQUIRED TECHNICAL INFORMATION FOR DRAINAGE DITCHES OR CANALS WHICH ABUT OR LIE IN THE PROPOSED SUBDIVISIONS:

1). FURNISH A MINIMUM OF TWO (2) CROSS-SECTIONS. ONE AT THE UPSTREAM AND THE OTHER AT THE DOWNSTREAM OF ALL EXISTING DITCHES OR CANALS. THESE CROSS-SECTIONS SHALL BE TIED-IN WITH THE PROPERTY LINE/LINES.

2). SUPERIMPOSE THE MASTER DRAINAGE PLAN'S RECOMMENDED DITCH OR CANAL CROSS-SECTIONS ON THE EXISTING CROSS-SECTIONS, THEN DELINEATE THE REQUIRED MAINTENANCE SERVITUDE ON BOTH SIDES OF THE CANALS OR DITCHES, THESE SERVITUDES ARE THE DISTANCES BETWEEN PROPERTY LINES AND THE TOP OF THE PROPOSED DITCH OR CANAL BANKS. (20 FEET MINIMUM SERVITUDE FOR THE TOP WIDTH OF A DITCH LESS THAN 35 FEET AND 35 FEET MINIMUM SERVITUDE FOR THE TOP WIDTH OF A CANAL LARGER THAN 35 FEET).

3). IF NO RECOMMENDATIONS ARE GIVEN FOR THE PROPOSED CROSS-SECTIONS OF THE DITCHES OR CANALS IN THE MASTER DRAINAGE PLAN THEN FURNISH THE FOLLOWING INFORMATION. :

(A). DETERMINE FLOW OF RUN OFF AT THE UPSTREAM REACH OF THE DITCH OR CANAL .

(B). CALCULATE RUN OFF GENERATED FROM THE PROPOSED SITE.

(C). CALCULATE THE PROPOSED CROSS-SECTIONS FOR THE DITCH OR CANAL BASED ON THE SUM OF THESE FLOWS THEN PROCEED AS STEP 2.

4). IF THE EXISTING DITCH IS PROPOSED TO BE RELOCATED OR ABANDONED, THEN A SUITABLE CULVERT/CULVERTS SHALL BE SIZED AND AN ADEQUATE MAINTENANCE SERVITUDE SHALL BE SHOWN.

5). IN CALCULATING RUN OFF OR SIZING CULVERTS FOLLOW THE PROCEDURES OUTLINED IN THE JEFFERSON PARISH DRAINAGE DESIGN MANUAL.

JEFFERSON PARISH
DEPARTMENT OF ENGINEERING

DRAWING TITLE: DRAINAGE STANDARD DETAILS

DRAWN BY	D.J.D.	DATED 12/11/92	REVISED BY	H.J.W.	DATED 03/10/97
REVISED BY	H.J.W.	DATED 06/06/97	DRF TO AUTOCAD	P.D.	DATED 12/22/03
REVISED BY	J.C	DATED 07/11/13	REVISED BY	–	DATED –
REVISED BY	–	DATED –	REVISED BY	–	DATED –
SOFTWARE	AUTOCAD LT. 2004		VISE	DRAIN1.DWG	
FILE NUMBER	0025				

SHEET NO. 1 OF 3

SHEET NUMBER STD2

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

DRAINAGE STRUCTURES

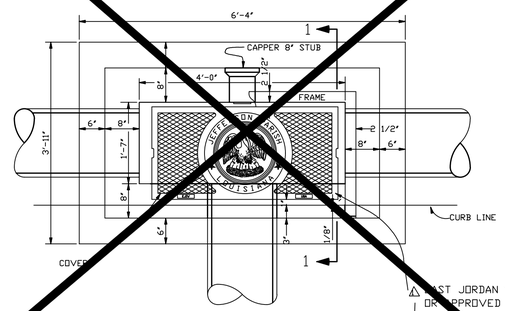
BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)486-1714

BKI JOB # – 9344-8320 BASE BID

DESIGNED R.P.	CHECKED D.B.	DATE DEC., 2021	SHEET 2 OF 9
DETAILED S.G.	CHECKED D.B.		

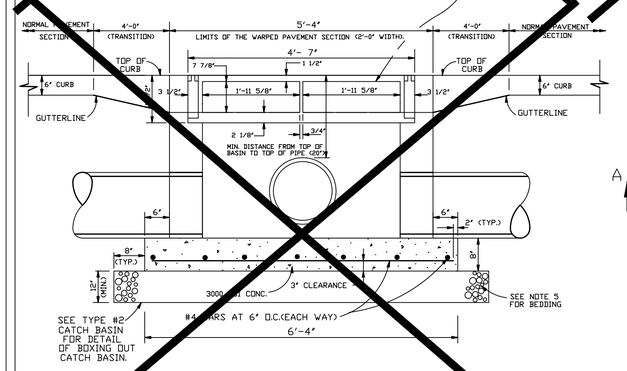
NO.	DATE	REVISION DESCRIPTION	BY

NOTE: ALL GREY IRON CASTINGS FOR MANHOLES AND CATCH-BASINS OF ALL TYPES SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A-48, CLASS 30 AND SHALL BE FURNISHED WITHOUT PAINT. (M306-891) CASTING MUST BE OF DOMESTIC UNITED STATES MANUFACTURE ONLY.



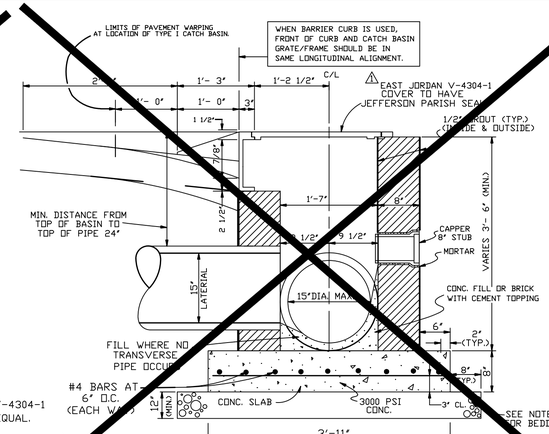
PLAN OF TYPE 1 CATCH BASIN

N.T.S.



FRONT ELEVATION TYPE 1 CATCH BASIN

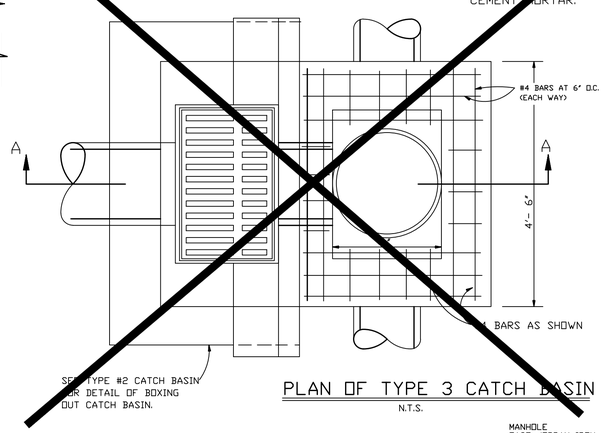
N.T.S.



TYPE 1 CATCH BASIN SECTION 1

N.T.S.

NOTE: INVERTS SHALL BE SURFACED WITH A MINIMUM 1/2" LAYER OF CEMENT MORTAR.



PLAN OF TYPE 3 CATCH BASIN

N.T.S.

NOTES

1-CONCRETE STRENGTH TO BE 3,000 PSI (MIN.) AT 28 DAYS.

2-WALL THICKNESS SHALL BE BASED UPON BASIN HEIGHT. REFER TO DETAIL "A" (SEE BELOW).

3-ALL MASONRY TO BE LAID WITH RUNNING BOND AND HEADER COURSE (EVERY FOURTH LAYER).

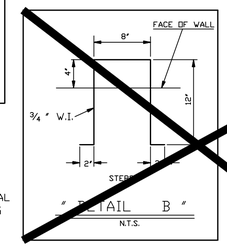
4-ALL WALLS TO BE PLASTERED 1/2" THICK INSIDE AND OUTSIDE.

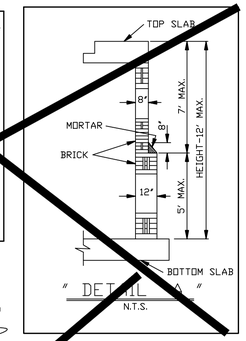
5-12" THICK CRUSHED LIMESTONE BEDDING FOUNDATION SHALL BE REQUIRED UNDER MANHOLES AND CATCH BASINS.

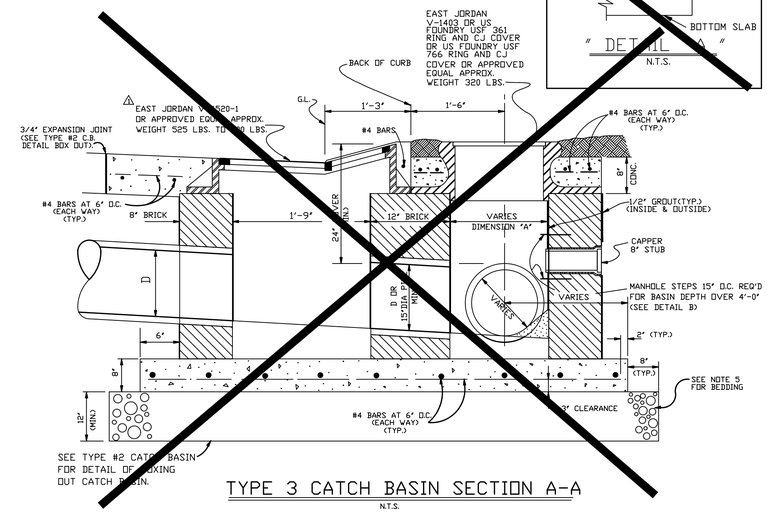
6-ALL CATCH BASINS AND MANHOLES GREATER THAN 4'- 0" DEEP ARE REQUIRED TO HAVE IRON STEPS.

DIMENSION "A"	REINFORCING	
	# SIZE	# EA. WAY
24" (STANDARD)	# 4	4
24" - 27"	# 5	4
27" - 30"	# 5	6
30" - 36"	# 5	8
36" - 48"	# 6	10

NOTE: STANDARD FOR DIMENSION "A" IS 24". WHEN DIMENSION "A" EXCEEDS 24" CASTING BECOMES PATTERN NO. V - 1406 AS MANUFACTURED BY EAST JORDAN OR USF 765 RING AND CJ COVER AS MANUFACTURED BY US FOUNDRY OR APPROVED EQUAL AND 8" REINFORCED CONCRETE SLAB IS REQUIRED AS CASTING SEAT.

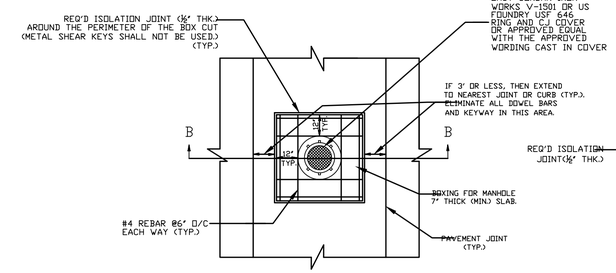






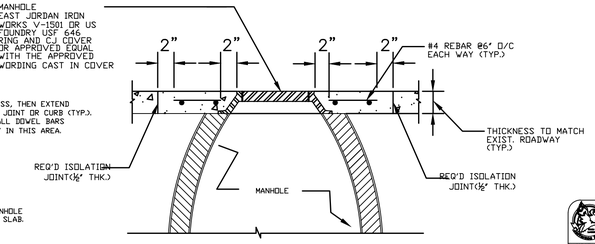
TYPE 3 CATCH BASIN SECTION A-A

N.T.S.



DETAIL FOR BOXING MANHOLE

N.T.S.



SECTION B-B

N.T.S.

JEFFERSON PARISH DEPARTMENT OF ENGINEERING

DRAWN TITLE: DRAINAGE STANDARD DETAIL

REVISED BY:	C.J.	DATED:	01/25/12	DRAWN BY:	H.J.W.	DATED:	03/12/91
REVISED BY:	C.J.	DATED:	07/11/13	REVISED BY:	H.J.W.	DATED:	06/04/01
				REVISED BY:	H.J.W.	DATED:	07/24/01
				REVISED BY:	H.J.W.	DATED:	09/21/01
				DXF TO AUTOCAD BY:	H.J.W.	DATED:	12/14/03
				REVISED BY:	H.J.W.	DATED:	07/26/05
				REVISED BY:	J.L.	DATED:	04/12/07
				REVISED BY:	C.J.	DATED:	09/07/11
				USED:	AUTOCAD LT. 2004	V.Ø#	DRAIN2.DWG
				FILE NUMBER:	0025A		

SHEET NO. 2 OF 3

SHEET NUMBER: STD3

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

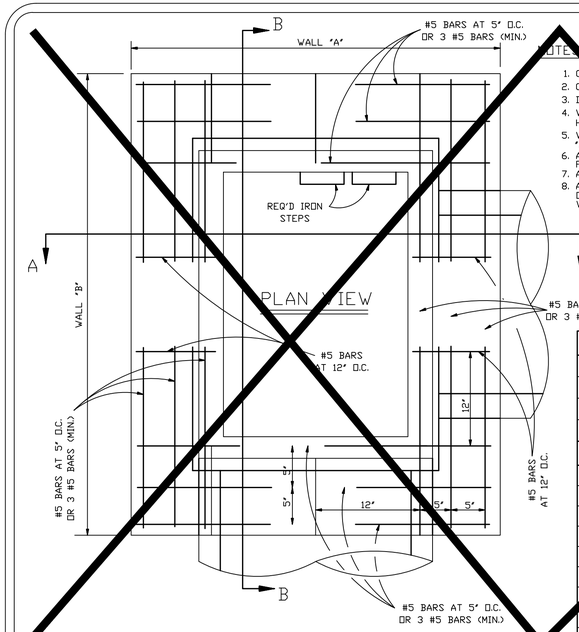
DRAINAGE STANDARDS

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # - 9344-8320 BASE BID

DESIGNED	R.P.
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC., 2021
SHEET	3 OF 9

NO.	DATE	REVISION DESCRIPTION	BY



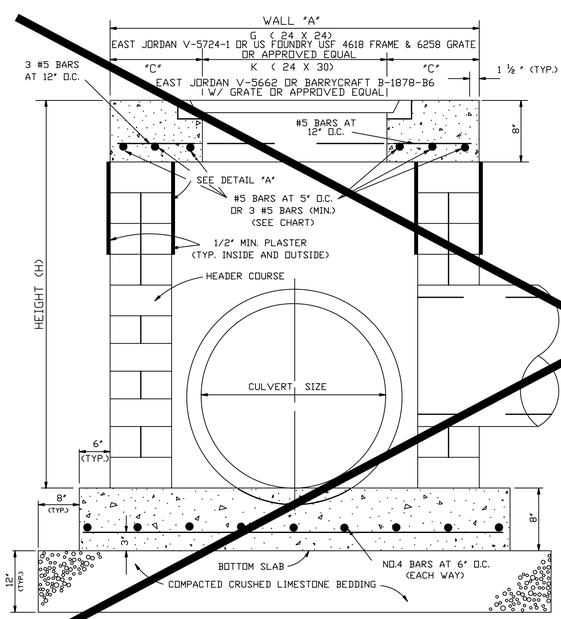
NOTES:

1. CULVERT SIZE SHOWN PERTAIN TO B & S PIPE. (UNLESS OTHERWISE SPECIFIED).
2. CONCRETE STRENGTH TO BE 3,000 PSI (MINIMUM) AT 28 DAYS.
3. DIMENSIONS FOR BOTTOM SLAB AS PER DIMENSIONS FOR WALLS "A" AND "B".
4. WHEN BOX IS 7'- 0" OR LESS IN HEIGHT, WALLS TO BE 8" THICK. WHEN BOX HEIGHT IS GREATER THAN 7'- 0" BUT LESS 12'- 0". SEE DETAIL "A".
5. WIDTH OF SHELF BEDDING SHALL BE AS PER DIMENSIONS SHOWN FOR WALLS "A" AND "B" PLUS 2'- 0".
6. ALL MASONARY TO BE LAID WITH RUNNING BOND AND HEADER COURSE (EVERY FOURTH LAYER).
7. ALL WALLS TO BE PLASTERED INSIDE AND OUTSIDE (1/2" MIN. THICKNESS).
8. ALL GRATES AND FRAMES SHALL BE EAST JORDAN, US FOUNDRY, BARRYCRAFT, NEENAH OR APPROVED EQUAL. ALL GRATES AND FRAMES SHALL BE CAST IRON TYPE AND WITHOUT PAINT.

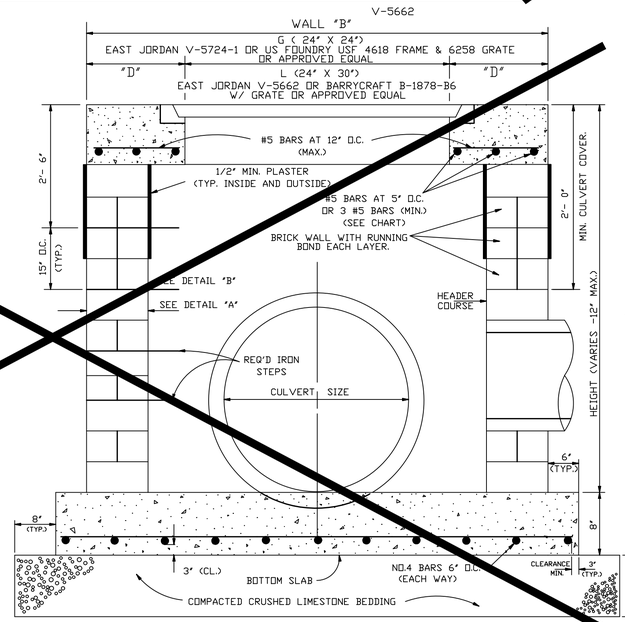
⚠ NOTE:
ALL GREY CASTINGS FOR MANHOLES, AND CATCH BASINS OF ALL TYPES SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. A-48, CLASS 30. AND SHALL BE FURNISHED WITHOUT PAINT (AASHTO#306-891).

SQUARE " GRATE " EAST JORDAN V-5724-1 OR US FOUNDRY USF 4618 FRAME & 6258 GRATE OR APPROVED EQUAL							
CULVERT SIZE	BOTTOM SLAB	TOP SLAB (A & B)	C & D	CULVERT SIZE	BOTTOM SLAB	TOP SLAB	C & D
12"DIA.	4'-2"X 4'-2"	3'-2"X 3'-2"	7 7/8"	21"DIA.X24"DIA.	5'-0"X 5'-0"	4'-6"X 4'-6"	15 7/8"
15"DIA.	4'-4"X 4'-4"	3'-4"X 3'-4"	9 7/8"	27"DIA.X30"DIA.	6'-0"X 6'-0"	5'-0"X 5'-0"	18 7/8"
18"DIA.	4'-6"X 4'-6"	3'-6"X 3'-6"	9 7/8"	36"DIA.	7'-0"X 6'-6"	5'-6"X 5'-6"	21 7/8"

RECTANGULAR "GRATE" EAST JORDAN V-5662 OR BARRYCRAFT B-1878-B6 W/GRATE OR APPROVED EQUAL				
CULVERT SIZE ON WALLS A & B	WALL "A"	" C "	WALL "B"	" D "
21"DIA.& 24"DIA. B& S	4'- 6"	15" (3 NO.5 BARS)	4'- 6"	15" (3 NO.5 BARS)
27"DIA.& 30"DIA. B& S	5'- 0"	18" (3 NO.5 BARS)	5'- 0"	18" (3 NO.5 BARS)
36"DIA. B& S	5'- 9"	22 1/2" (3 NO.5 BARS)	5'- 9"	22 1/2" (3 NO.5 BARS)
42"DIA. B& S	6'- 6"	27" (4 NO.5 BARS)	6'- 6"	24" (4 NO.5 BARS)
48"DIA. B& S	7'- 0"	30" (5 NO.5 BARS)	7'- 0"	27" (4 NO.5 BARS)
54"DIA. T& G	7'- 3"	31 1/2" (5 NO.5 BARS)	7'- 3"	28 1/2" (5 NO.5 BARS)
60"DIA. T& G	7'- 9"	35" (6 NO.5 BARS)	7'- 9"	32" (6 NO.5 BARS)
72"DIA. T& G	9'- 0"	42" (7 NO.5 BARS)	9'- 0"	39" (7 NO.5 BARS)

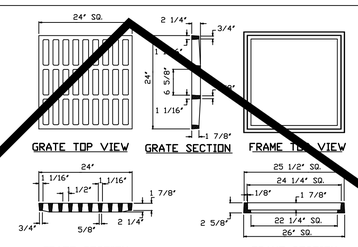


SECTION " A - A "
N.T.S.



SECTION " B - B "
N.T.S.

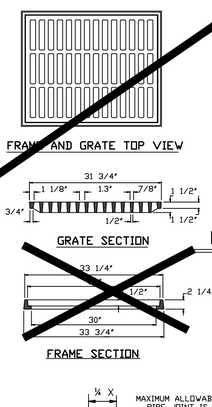
DROP INLET DETAIL



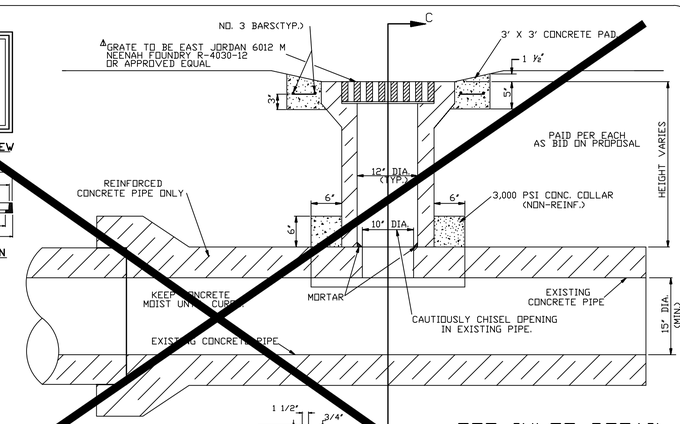
NOTE:
SOLID COVERS ARE AVAILABLE ON REQUEST.

SQUARE D.I.
N.T.S.

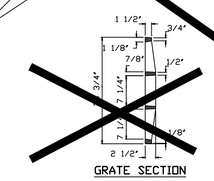
B & S = BELL & SPIGOT
T & G = TONGUE & GROOVE
W.I. = WROUGHT IRON



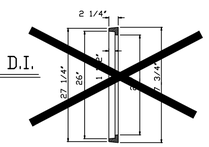
RECTANGULAR D.I.
N.T.S.



TEE INLET DETAIL
N.T.S.

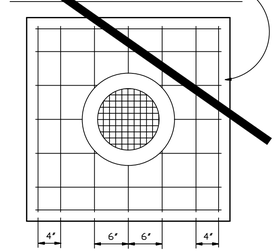


GRATE SECTION

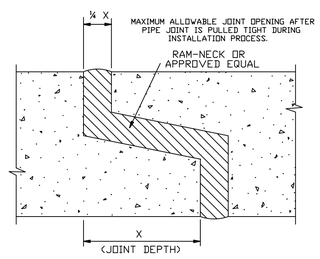


FRAME SECTION

3'X 3' CONCRETE PAD



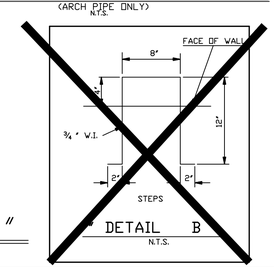
TOP VIEW
7 NO.3 BARS SPACED AS SHOWN
(EACH WAY)
N.T.S.



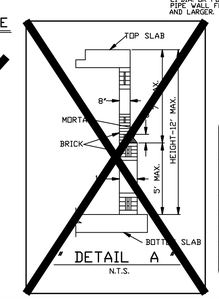
APPLICABLE TO TONGUE AND GROOVE PIPE
(ARCH PIPE ONLY)
N.T.S.

ARCH PIPE (RISE X SPAN)	X (INCHES)	¼ X (INCHES)
13 ½" X 22"	2"	½"
15 ½" X 26"	2 ¼"	9/16"
18" X 28 7/8"	3"	¾"
22 9/16" X 36 ¼"	3 3/4"	15/16"
26 5/8" X 43 3/4"	3"	¾"
31 5/16" X 51 7/8"	3 ½"	⅞"
36" X 58 ½"	4 ½"	1 1/8"
40 1/4" X 65"	5 ¼"	1 3/16"
45" X 73 ½"	5"	1 ¼"
54" X 88"	6"	1 ½"
62 3/4" X 102"	6 ½"	1 ½"
77 3/4" X 122"	7"	1 ¾"

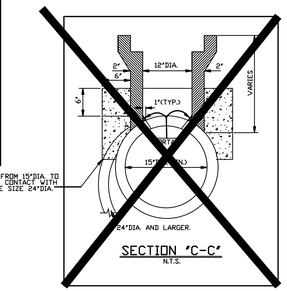
MID-POINT OF PIPE FROM 15"DIA. TO 21"DIA. OR POINT OF CONTACT WITH PIPE WALL FOR PIPE SIZE 24"DIA. AND LARGER.



DETAIL B
N.T.S.



DETAIL A
N.T.S.



SECTION "C-C"
N.T.S.

JEFFERSON PARISH
DEPARTMENT OF ENGINEERING

DRAWING TITLE
DRAINAGE STANDARD DETAILS

DRAWN BY	H.J.W.	DATED 08/07/92	REVISED BY	H.J.W.	DATED 06/13/94
REVISED BY	H.J.W.	DATED 07/25/97	DWF TO AUTOCAD BY	H.J.W.	DATED 01/04/04
REVISED BY	J.L.	DATED 11/26/07	REVISED BY	–	DATED –
REVISED BY	C.J.	DATED 07/11/13	REVISED BY	–	DATED –
USED	AUTOCAD LT. 2004		VIEW	DRAIN3.DWG	
FILE NUMBER	0025				

SHEET NO. 3 OF 3

SHEET NUMBER STD4

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

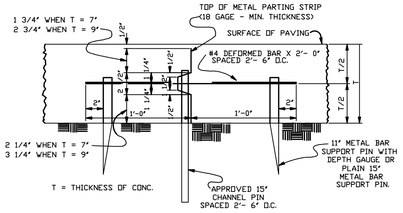
DRAINAGE STANDARDS

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # – 9344-8320 BASE BID

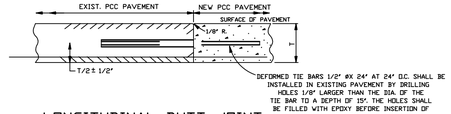
DESIGNED	R.P.	DATE	DEC., 2021
CHECKED	D.B.	SHEET	4 OF 9
DETAILED	S.G.		
CHECKED	D.B.		

NO.	DATE	REVISION DESCRIPTION	BY



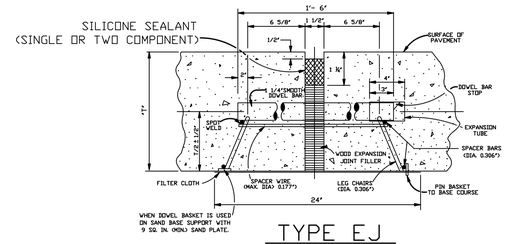
DEFORMED LONGITUDINAL JOINT

(ALSO CALLED METAL KEYED JOINT)
N.T.S.



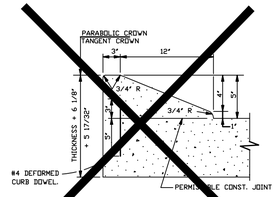
LONGITUDINAL BUTT JOINT

(APPLICABLE TO MAJOR STREETS)
N.T.S.



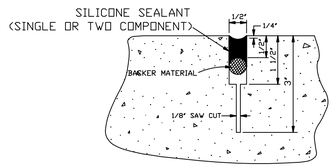
TYPE EJ

(TRANSVERSE EXPANSION JOINT)
(SECTION "A-A")
N.T.S.



5" HIGH ROLLOVER TYPE CONCRETE CURB

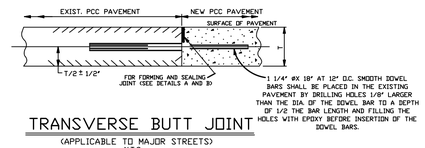
(CONCRETE PAVEMENT ROADWAY)
N.T.S.



DETAIL "A"

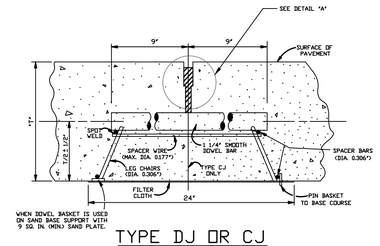
N.T.S.

DETAILS "A" AND "B" ARE USED IN CONJUNCTION WITH TRANSVERSE DUMMY JOINT OR CONST. JOINT.



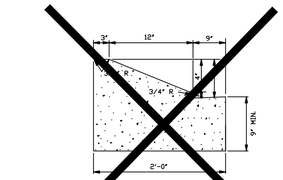
TRANSVERSE BUTT JOINT

(APPLICABLE TO MAJOR STREETS)
N.T.S.



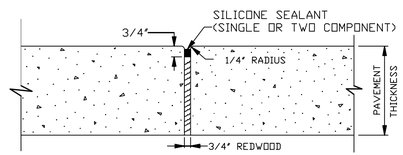
TYPE DJ OR CJ

(TRANSVERSE DUMMY JOINT OR CONSTRUCTION JOINT)
(SECTION "B-B")
N.T.S.



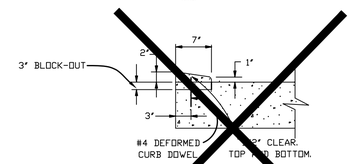
5" HIGH ROLLOVER TYPE CONCRETE CURB & GUTTER

(ASPHALT PAVEMENT ROADWAY)
N.T.S.



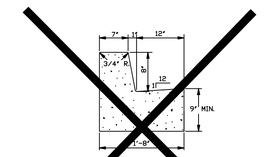
EXPANSION JOINT

(FOR CONCRETE SIDEWALK & RAMP FOR HANDICAPPED)
N.T.S.



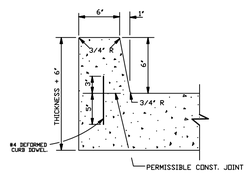
MODIFIED BARRIER CURB

N.T.S.



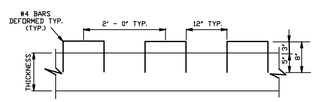
8" HIGH BARRIER TYPE CONCRETE CURB & GUTTER

(ASPHALT PAVEMENT ROADWAY)
N.T.S.



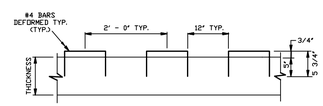
6" HIGH BARRIER TYPE CONCRETE CURB.

(CONCRETE PAVEMENT ROADWAY)
N.T.S.



CURB DOWELS

N.T.S.

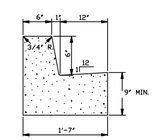


MODIFIED CURB DOWELS

(USED ON MODIFIED BARRIER CURB)
N.T.S.

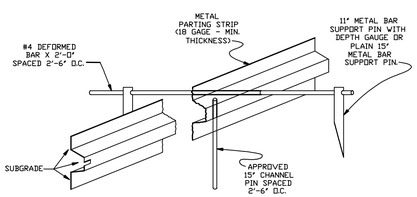
MODIFIED BARRIER CURB AND GUTTER

N.T.S.



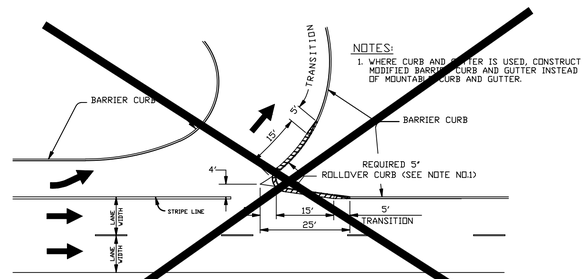
6" HIGH BARRIER TYPE CONCRETE CURB & GUTTER

(ASPHALT PAVEMENT ROADWAY)
N.T.S.



OBLIQUE VIEW METAL PARTING STRIP FOR DEFORMED LONGITUDINAL JOINT

N.T.S.



NOTES:
1. WHERE CURB AND GUTTER IS USED, CONSTRUCT MODIFIED BARRIER CURB AND GUTTER INSTEAD OF MOUNTABLE CURB AND GUTTER.

ROLLOVER CURB IN THE GORE AREA

(U-TURN, LEFT TURN LANE OR ROADWAY SPLIT)
N.T.S.

NOTE:
ALL JOINTS FOR CONCRETE PAVEMENT SHOWN IN LA. D.O.T.D. STANDARD PLANS CP-01 CAN BE USED AT THE REQUEST OF THE ENGINEER WHO SHALL PROVIDE CONSTRUCTION DETAILS TO CONTRACTOR.

JEFFERSON PARISH
DEPARTMENT OF ENGINEERING

DRAWING TITLE: TYPICAL ROADWAY DETAILS

REVISED BY:	DATE:	DRAWN BY:	DATE:	REVISED BY:	DATE:
C.J.	04/11/13	W.V.N.	03/12/91	H.J.W.	08/18/00
REVISED BY:	DATE:	REVISED BY:	DATE:	REVISED BY:	DATE:
C.J.	09/24/15	P.D.	10/13/00	H.J.W.	01/30/01
REVISED BY:	DATE:	REVISED BY:	DATE:	DWF TO AUTOCAD V14	DATE:
		H.J.W.	05/21/03	H.J.W.	08/14/03
REVISED BY:	DATE:	REVISED BY:	DATE:	REVISED BY:	DATE:
		C.J.	05/13/11	C.J.	07/18/12

SOFTWARE: AUTOCAD LT. 2004 VER: ROAD1.DWG
FILE NUMBER: 2925

SHT 1 OF 2

SHEET NUMBER: STD5

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

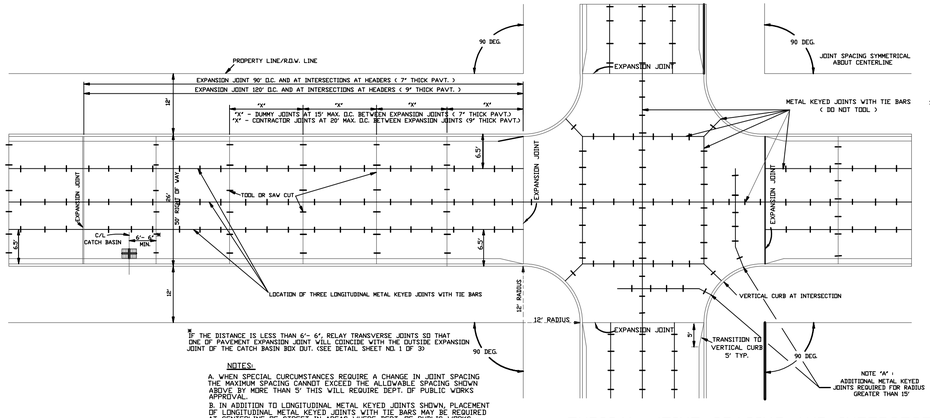
ROADWAY DETAILS

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # - 9344-8320 BASE BID

DESIGNED	R.P.
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC., 2021
SHEET	5 OF 9

NO.	DATE	REVISION DESCRIPTION	BY



IF THE DISTANCE IS LESS THAN 6'- 6', RELAY TRANSVERSE JOINTS SO THAT ONE OF PAVEMENT EXPANSION JOINT WILL COINCIDE WITH THE OUTSIDE EXPANSION JOINT OF THE CATCH BASIN BOX OUT. (SEE DETAIL SHEET NO. 1 OF 3)

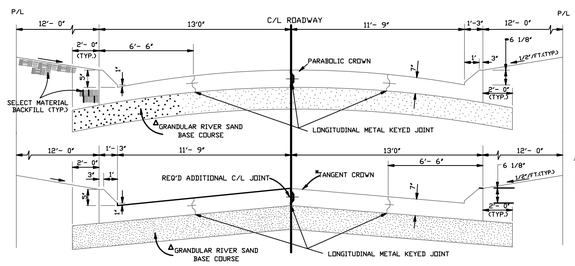
NOTES:

A. WHEN SPECIAL CIRCUMSTANCES REQUIRE A CHANGE IN JOINT SPACING THE MAXIMUM SPACING CANNOT EXCEED THE ALLOWABLE SPACING SHOWN ABOVE BY MORE THAN 5' THIS WILL REQUIRE DEPT. OF PUBLIC WORKS APPROVAL.

B. IN ADDITION TO LONGITUDINAL METAL KEYED JOINTS SHOWN, PLACEMENT OF LONGITUDINAL METAL KEYED JOINTS WITH TIE BARS MAY BE REQUIRED AT CENTERLINE OF STREET IN AREAS WHERE DEPT. OF PUBLIC WORKS CONSIDERS SOIL CONDITIONS TO BE POOR.

TYPICAL JOINT SPACING AND INTERSECTION DETAILS FOR 90 DEG. INTERSECTIONS

(SHOWN FOR 26' STREET IN 50' R/W)
N.T.S.

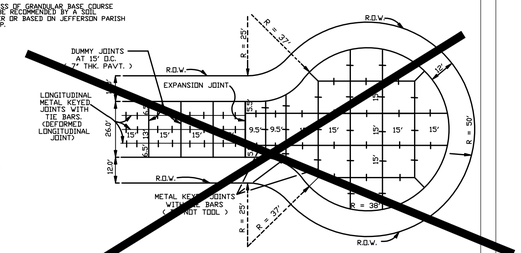


TYPICAL SECTION OF 26' ROADWAY

(WITH WRITTEN PERMISSION OF THE DEPT. OF ENGINEERING ONLY)
N.T.S.

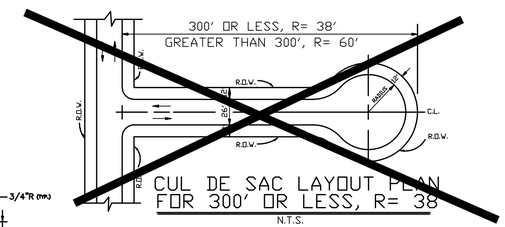
△ NOTE: THICKNESS OF GRANULAR BASE COURSE SHOULD BE RECOMMENDED BY A SOIL ENGINEER OR BASED ON JEFFERSON PARISH SOIL MAP.

PAVEMENT WIDTH	NUMBER OF UNITS	X	Y
18'	10	10'	1'- 10'
20'	12	7.5'	1'- 9'
22'	12	11'	1'- 10'
24'	14	9'	1'- 9'
26'	14	10.5'	1'- 10.5'



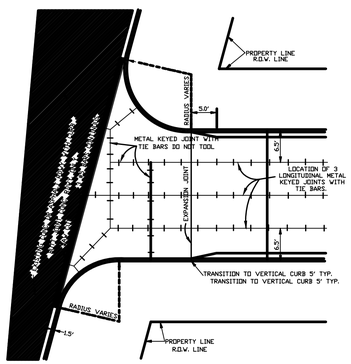
FULL CUL DE SAC (R= 38'/50')

(JOINT DETAIL)
REQUIRED IN DEAD-END STREETS BETWEE 150' TO 300', MEASURED ALONG CENTERLINE FROM INTERSECTION OF PROJECTED EDGE OF ROAD OF NEAREST INTERSECTING STREET TO END OF R.O.W.
N.T.S.



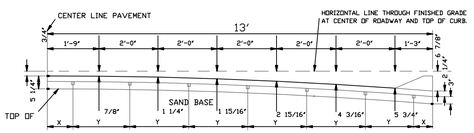
CUL DE SAC LAYOUT PLAN FOR 300' OR LESS, R= 38

N.T.S.



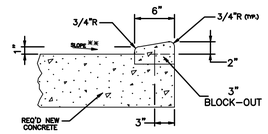
TYPICAL INTERSECTION

(EXISTING STREET WITH CURB)
N.T.S.



ELEVATION OF EXPANSION JOINT SHOWING ORDINATES AND SPACING OF STARLUG UNITS.

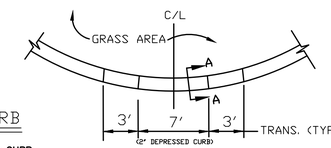
FOR 26' PARABOLIC CROWN
N.T.S.



DETAIL "A - A"

MODIFIED DEPRESSED BARRIER CURB

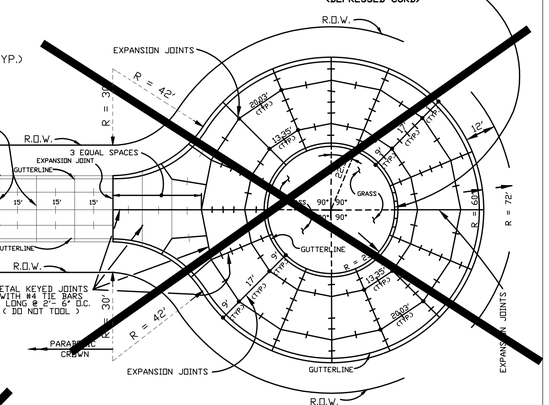
(DRAINAGE TO CURB SHOWN) TO BE USED ON DRIVEWAYS & OTHER AREAS WHICH REQUIRE THE DEPRESSION OF A BARRIER CURB
N.T.S.



DETAIL "A"

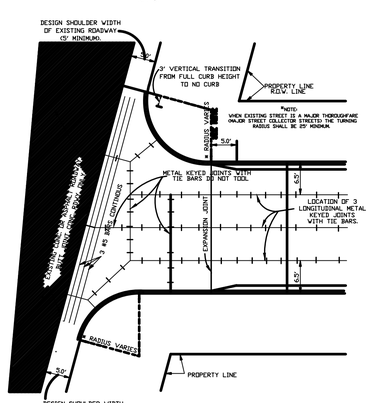
(DEPRESSED CURB)
N.T.S.

SEE: DETAIL "A"
(DEPRESSED CURB)



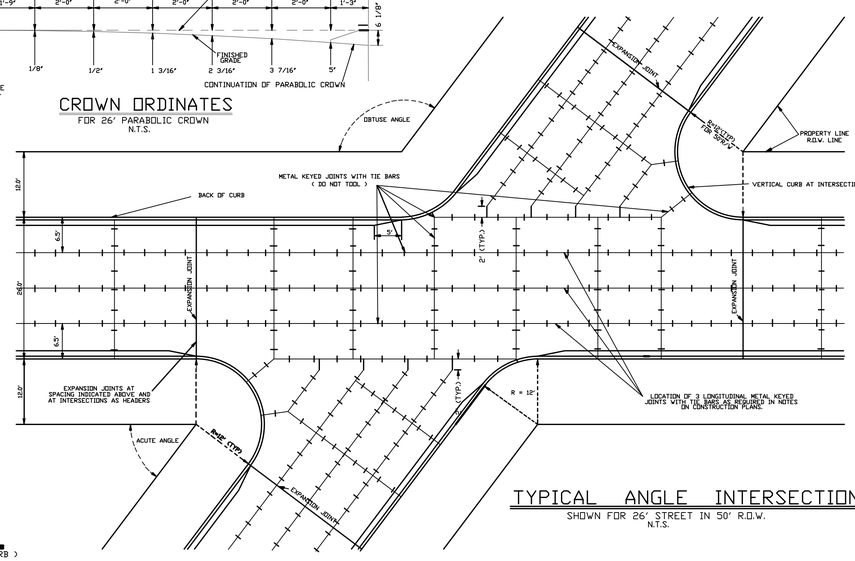
FULL CUL DE SAC (R= 60'/72')

(JOINT DETAIL)
REQUIRED ON DEAD-END STREETS OVER 300' IN LENGTH, MEASURED ALONG CENTERLINE FROM INTERSECTION OF PROJECTED EDGE OF ROAD OF NEAREST INTERSECTING STREET TO END OF R.O.W.
SCALE: N.T.S.



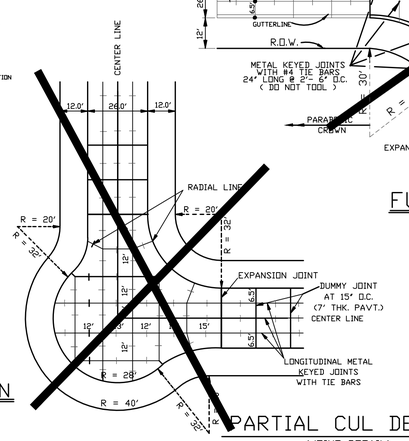
TYPICAL INTERSECTION

(EXISTING STREET WITH SHOULDER / WITHOUT CURB)
N.T.S.



TYPICAL ANGLE INTERSECTION

SHOWN FOR 26' STREET IN 50' R.O.W.
N.T.S.



PARTIAL CUL DE SAC

(JOINT DETAIL)
N.T.S.

JEFFERSON PARISH
DEPARTMENT OF ENGINEERING

DRAWING TITLE: TYPICAL ROADWAY DETAILS

DRAWN BY: D.J.D.	DATE: 07/17/92		DWG TO AUTOCAD-LT: H.J.W.	DATE: 12/02/03	
REVISED BY: H.J.W.	DATE: 06/03/04		REVISED BY: H.J.W.	DATE: 07/13/04	
REVISED BY: H.J.W.	DATE: 10/29/04		REVISED BY: J.L.	DATE: 05/04/07	
REVISED BY: C.J.	DATE: 09/24/15		REVISED BY: J.W.	DATE: 07/25/16	
USED: AUTOCAD LT. 2004			VDN: ROAD2.DWG		
FILE NUMBER: 2925A					

SHT 2 OF 2

SHEET NUMBER: STD6

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

ROADWAY DETAILS

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # - 9344-8320 BASE BID

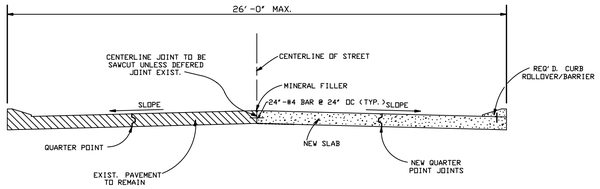
DESIGNED	R.P.
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC., 2021
SHEET	6 OF 9

NO.	DATE	REVISION DESCRIPTION	BY

ROADWAY RESTORATION

CONCRETE PAVEMENTS

A. REPLACEMENT OF QUARTER POINT JOINTED SLABS



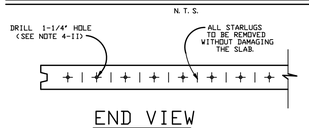
SECTION THRU STREET
(REPLACEMENT OF CENTERLINE)
N. T. S.

NOTE:

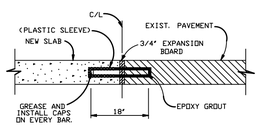
1. IF TRENCH IS BETWEEN THE EDGE OF THE ROAD AND 1ST. QUARTER POINT, REMOVE SLABS TO THE QUARTER POINT AND REPLACE THE SECTION TO GRADE AND THICKNESS AS SPECIFIED, AND FORM BUTT JOINT.
2. IF TRENCH IS BETWEEN THE CURB AND CENTERLINE OF SLAB, PAST THE QUARTER POINT, SAW CUT THE PAVEMENT ALONG CENTERLINE, REMOVE HALF THE SLAB, REPLACE HALF SLAB WITH NEW CONCRETE TO SPECIFIED THICKNESS AND FORM A BUTT JOINT ALONG CENTERLINE.
3. EXISTING SLOPE MAY BE PARABOLIC OR TANGENT. SLOPE OF THE NEW SLAB SHALL MATCH THE EXISTING SLAB.

B. REPLACING JOINT WITH DAMAGED STARLUG SITUATION

N. T. S.



END VIEW
N. T. S.



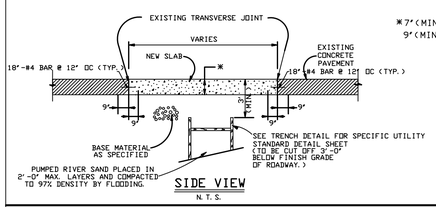
DOWEL BAR DETAIL
N. T. S.

NOTE: (CONT.)

4. INSTALLING DOWEL BARS AT JOINTS.
   I. REMOVE ALL OF THE STARLUGS FROM THE EXISTING SECTION OF CONCRETE WITHOUT DAMAGING THE SLAB.
   II. DRILL 1-1/4" HOLE 12" IN LENGTH BETWEEN STARLUG LOCATIONS IN THE EXISTING SLAB AT CENTER OF SLAB.
   III. INSERT A 1 1/8" ROUND SMOOTH DOWEL BAR, 18" LONG, 9" DEEP INTO THE DRILLED HOLE AND GROUT WITH APPROVED EPOXY GROUT.
   IV. GREASE THE REMAINDER OF THE DOWEL BAR AND SLIP A 4" PLASTIC SLEEVE FILLED WITH GREASE OVER END OF BAR AS SHOWN IN DETAIL.
   V. POUR THE NEW SLAB WITH SMOOTH DOWEL BARS IN POSITION.
   VI. DO NOT TOE CONCRETE UNDER EXPANSION JOINT.
   VII. IF THE EXPANSION BOARD IS DAMAGED AND CANNOT BE SALVAGED, REMOVE THE BOARD AND REPLACE.

C. CONCRETE REPLACEMENT OVER TRENCH

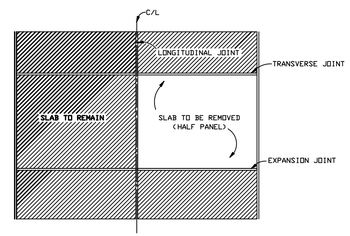
N. T. S.



*7' (MIN.) THK. (MINOR STREET)
9' (MIN.) THK. (MAJOR STREET)

SIDE VIEW
N. T. S.

D. REPLACEMENT OF HALF PANEL SLABS

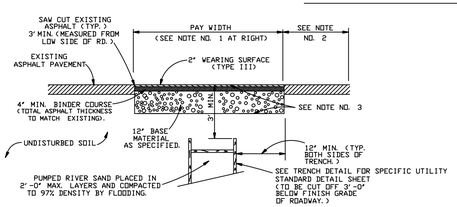


PLAN VIEW
N. T. S.

NOTES: (CONT.)

5. REMOVE THE SLAB JOINT TO JOINT.
6. REPLACE EXPANSION JOINT, TRANSVERSE OR LONGITUDINAL JOINT AS NEEDED.
7. REWORK THE BASE TO GRADE.
8. FILL UNEVEN SPOTS, DRESS THE AREA WITH RIVER SAND AND RECOMPACT..
9. POUR THE NEW SLAB TO REQUIRED GRADE AND APPROPRIATE THICKNESS.
10. REPAIR THE ADJOINING DAMAGED AREAS. AS NEEDED, WITH EPOXY OR OTHER APPROVED MEANS.
11. REMOVE CONCRETE SLAB, JOINT TO JOINT.
12. LONGITUDINAL JOINTS SHALL BE RESTORED IN ACCORDANCE WITH JEFFERSON PARISH STANDARD PLANS.

ASPHALT PAVEMENTS



ASPHALT REPLACEMENT OVER TRENCH
N. T. S.

NOTES:

1. DAMAGE TO STREET CAUSED BY CONTRACTOR'S OPERATIONS BEYOND PAY LIMITS SHALL BE REMOVED AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
2. IF LESS THAN 2' FROM EDGE OF CUT TO EDGE OF ROAD, REMOVE ALL ROAD FROM WITHIN THE STRIP AND INCLUDE IN THE PAY WIDTH.
3. CONTRACTOR SHALL BACKFILL WITH BASE MATERIAL AND 6" OF ASPHALT BINDER COURSE TO EXISTING GRADE AND MAINTAIN AREA AS A RIDING SURFACE FOR A MINIMUM OF ONE MONTH OR AS DIRECTED BY THE ENGINEER AND APPROVED BY JEFFERSON PARISH DEPARTMENT OF PUBLIC WORKS. ASPHALT BINDER MATERIAL SHALL BE REMOVED FROM TRENCH AND EXPOSED SURFACE MECHANICALLY COMPACTED TO REQUIRED COMPACTION PRIOR TO ASPHALT PLACEMENT.
4. WEARING COURSE MIX MAY BE USED AS A BINDER BUT NOT VICE-VERSA.

GENERAL:

1. CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ALL DIRT OFF THE STREET AS A RESULT OF HIS CONSTRUCTION ACTIVITIES DURING CONTRACT PERIOD.
2. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO ADJOINING PAVEMENT WHICH RESULTED FROM HIS CONSTRUCTION ACTIVITIES.
3. BRIDGE APPROACH SLABS OR SLABS AT SPECIAL LOCATIONS SHALL BE DESIGNED TO ACCOMMODATE FIELD REQUIREMENTS AND CONDITIONS, SUBJECT TO APPROVAL BY THE DEPARTMENT OF PUBLIC WORKS.
4. CONTRACTOR IS REQUIRED TO EXTEND SAND BASE/SUB-BASE MINIMUM OF 2 FEET BEYOND THE EDGE OF CONCRETE PAVEMENT OR ONE FOOT OF BASE COURSE (STONE) - 95% FOR ASPHALTIC PAVEMENTS.
5. CONCRETE MIX FOR CURBING SHALL BE THE SAME AS THAT OF THE ROADWAY.
6. AS IS POSSIBLE WITHOUT COST, THE GUTTER LINE OF THE ROADWAY SHALL BE ADJUSTED FOR SMOOTH FLOW OF SURFACE RUN-OFF TO THE NEAREST DRAINAGE INLET.
7. ALL TRAFFIC CONTROL DETAILS SHALL BE APPROVED BY THE TRAFFIC ENGINEERING DIVISION OF THE OFFICE OF PUBLIC WORKS ENGINEERING.

CONCRETE ROADWAY

1. ALL CONCRETE ROADWAY DIRECTLY AFFECTED BY CONSTRUCTION OR DAMAGED AS THE RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REMOVED AND REPLACED FROM JOINT TO JOINT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER AND APPROVED BY JEFFERSON PARISH DEPARTMENT OF PUBLIC WORKS.
2. TRANSVERSE (EXPANSION OR CONTRACTION) LONGITUDINAL AND CONSTRUCTION JOINTS SHALL ALL BE INSTALLED IN ACCORDANCE WITH JEFFERSON PARISH DEPARTMENT OF PUBLIC WORKS STANDARD DETAILS. IN CASES WHERE THE SECTION OF ROADWAY TO BE RESTORED ABUTS AN EXISTING ROADWAY. ALL TRANSVERSE AND LONGITUDINAL JOINTS SHALL LINE UP AND BE OF THE SAME TYPE AS THE EXISTING JOINTS (EXPANSION, CONTRACTION, ETC.) AND, IN ADDITION, INCLUDE THE MINIMUM NUMBER AND SPACING OF EXPANSION JOINTS SHOWN IN THE STANDARDS.
3. PRIOR TO RESTORATION OF THE ROADWAY, THE ENGINEER SHALL FORWARD TO THE DEPARTMENT OF PUBLIC WORKS A CONCRETE MIX SUBMITTAL PREPARED BY A REPUTABLE TESTING LABORATORY FOR THEIR APPROVAL.
4. THE THICKNESS OF THE CONCRETE PAVEMENT IS SEVEN INCHES FOR MINOR STREETS AND NINE INCHES FOR MAJOR STREES. ALL CONCRETE PAVEMENT SHALL BE NON-REINFORCED.
5. THE FINAL ROADWAY SHALL HAVE 'DRAG FINISH' AS STIPULATED UNDER LOUISIANA "STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES" LATEST EDITION, UNLESS A TINE FINISH EXIST.
6. DENSITY TESTS WILL BE REQUIRED FOR ALL ROADWAY BASE MATERIALS WHERE REQUIRED IN THE CONTRACT. THE CONTRACTOR SHALL NOT BE ALLOWED TO RESTORE THE ROADWAY UNTIL ALL DENSITY TESTS HAVE BEEN COMPLETED AND THE RESULTS MEET DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS.
7. THE CONTRACTOR SHALL GIVE A MINIMUM NOTICE OF 24 HOURS (EXCLUDING WEEKENDS AND HOLIDAYS) TO THE ENGINEER AND THE ASSIGNED TESTING LABORATORY PRIOR TO THE POURING OF ANY CONCRETE FOR ROADWAY RESTORATION.
8. CONCRETE REQUIREMENTS:
   A. 7 SACKS OF CEMENT PER CUBIC YARD
   B. 2" TO 4" SLUMP RANGE
   C. THE ATTAINMENT OF A COMPRESSIVE STRENGTH OF 4,000 PSI MIN. IS DESIRABLE WITHIN THREE (3) DAYS OF THE POUR (IF STREET IS TO BE OPENED)
9. THE PAVEMENT SHALL NOT BE OPENNED TO TRAFFIC UNTIL A COMPRESSIVE STRENGTH OF 4,000 PSI IS ATTAINED. IN NO CASE SHALL THE PAVEMENT BE OPENED TO TRAFFIC WITHIN A THREE (3) DAY PERIOD AFTER THE CONCRETE HAS BEEN PLACED.
10. DENSITY REQUIREMENTS (STANDARD PROCTOR)
    A. BASE COURSE (SAND) - 97%
    B. BASE COURSE (STONE) - 95%
    C. SUB-BASE (SAND) - 97%
11. TESTING REQUIREMENTS:
    A. ONE BASE THICKNESS VERIFICATION PER 600 SQUARE YARDS OR FRACTION THEREOF.
    B. ONE DENSITY TEST ON SUB-BASE (IF APPLICABLE) AND BASE MATERIAL PER 600 SQUARE YARDS OR FRACTION THEREOF.
    C. ONE SLUMP TEST MINIMUM PER 100 CUBIC YARDS OF CONCRETE OR FRACTION THEREOF.
    D. FOUR (4) CYLINDERS MINIMUM PER 100 CUBIC YARDS OF CONCRETE OR FRACTION THEREOF.
    E. ONE PAVEMENT CORE FOR THICKNESS VERIFICATION PER 600 SQUARE YARDS OF PAVEMENT OR FRACTION THEREOF.

   ADDITIONAL DENSITIES, SLUMP, CYLINDERS, CORES, ETC., WILL BE REQUIRED FOR ISOLATED AREAS.
12. THERE SHALL BE NO COST ADJUSTMENT OR ACCEPTANCE FOR PAVEMENT THICKNESS DEFICIENCIES. IF THE CONCRETE CORE IS LESS THAN SPECIFIED, TWO ADDITIONAL CORES ON THE SAME SLAB WITHIN A 5' RADIUS MUST BE TAKEN. IF ONE OF THESE CORES IS LESS THAN SPECIFIED, THEN THE ENTIRE PANEL (JOINT TO JOINT) MUST BE REMOVED AND ADDITIONAL CORES ON OTHER ADJACENT PANELS WITHIN THE CORE RANGE (600 SQUARE YARDS) MUST BE TAKEN AND THE SAME PROCEDURE FOLLOWED.
13. ALL CONSTRUCTION MATERIAL AND PROCEDURES SHALL CONFORM TO THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (DOTD) LATEST EDITION UNLESS OTHERWISE SPECIFIED. DEVIATIONS FROM THESE SPECIFICATIONS SHALL HAVE TO BE APPROVED BY JEFFERSON PARISH DEPARTMENT OF PUBLIC WORKS.
14. ALL STRUCTURES WITHIN THE PAVEMENT AREA SHALL BE ISOLATED (BOXED OUT) BY MEANS OF AN APPROVED CIRCULAR, SQUARE OR RECTANGULAR JOINT AROUND THEM.

ASPHALT ROADWAY

1. SAW CUTTING USING A CONCRETE CUTTING TYPE SAW TO MAKE A TRUE STRAIGHT LINE TO A MINIMUM DEPTH OF ONE (1) INCH SHALL BE REQUIRED ALONG THE ENTIRE LIMITS OF THE AFFECTED AREA OF REMOVAL, UNLESS OTHER METHODS ARE AUTHORIZED BY THE ENGINEER AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS.
2. REQUIREMENTS 3 AND 10 SPECIFIED UNDER CONCRETE ROADWAY (ABOVE) SHALL ALSO APPLY FOR ASPHALT.
3. JOB MIX FORMULA (PER LA. D.O.T.D. STANDARDS)
4. ALL CONSTRUCTION MATERIALS, PROCEDURES, TESTING, FINISHING, ETC., SHALL CONFORM TO THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES (DOTD) LATEST EDITION. DEVIATIONS FROM THESE SPECIFICATIONS SHALL HAVE TO BE APPROVED BY JEFFERSON PARISH DEPARTMENT OF PUBLIC WORKS.

NOTES:

THIS TYPICAL ROADWAY RESTORATION PLAN WILL BE IN CONJUNCTON WITH THE FOLLOWING:

TYPICAL ROADWAY DETAILS
SHEET 1 OF 2 REVISED 04/11/13
SHEET 2 OF 2 REVISED 05/04/11

TYPICAL DRAINAGE DETAILS
SHEET 1 OF 3 REVISED 07/11/13
SHEET 2 OF 3 REVISED 07/11/13
SHEET 3 OF 3 REVISED 7/11/13

TYPICAL SIDEWALK DETAIL
SHEET 1 OF 1 REVISED 05/13/11

TYPICAL WATER DETAILS
SHEET 1 OF 1 REVISED 07/11/19

TYPICAL SEWER DETAIL
SHEET 1 OF 1 REVISED 07/11/13

TYPICAL (RCP), (RCPA) & PVC) PIPE TRENCH DETAILS
SHEET 1 OF 1 REVISED 07/11/13

REVISED BY	DATE
C.J.	07/11/13

JEFFERSON PARISH
DEPARTMENT OF ENGINEERING

DRAWING TITLE: TYPICAL ROADWAY RESTORATION DETAIL

DRAWN BY: T.V.C.	DATE: 05/18/94	REVISED BY: H.J.W.	DATE: 07/13/01
REVISED BY: H.J.W.	DATE: 04/29/03	DWF TO AUTOCAD BY: H.J.W.	DATE: 01/21/04
REVISED BY: H.J.W.	DATE: 08/18/04	REVISED BY: H.J.W.	DATE: 04/20/05
REVISED BY: C.J.	DATE: 05/13/11	REVISED BY: C.J.	DATE: 07/18/12
SOFTWARE: AUTOCAD LT. 2004		VER: ROADRES1.DWG	
FILE NUMBER: 2925C			

SHT 1 OF 1

SHEET NUMBER: STD7

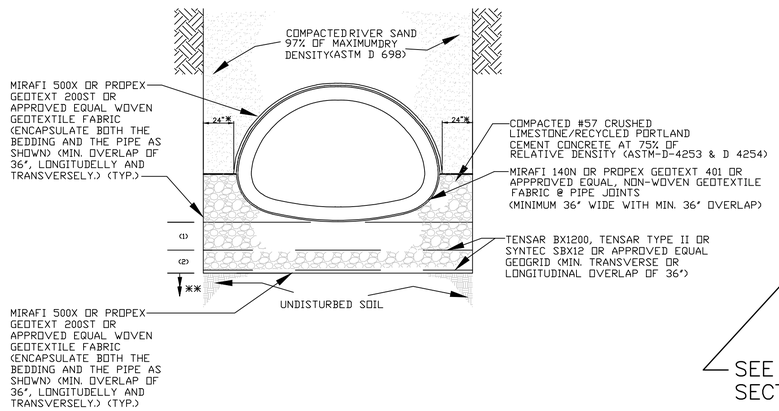
GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)
ROADWAY RESTORATION

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # - 9344-8320 BASE BID

DESIGNED	R.P.
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC., 2021
SHEET	7 OF 9

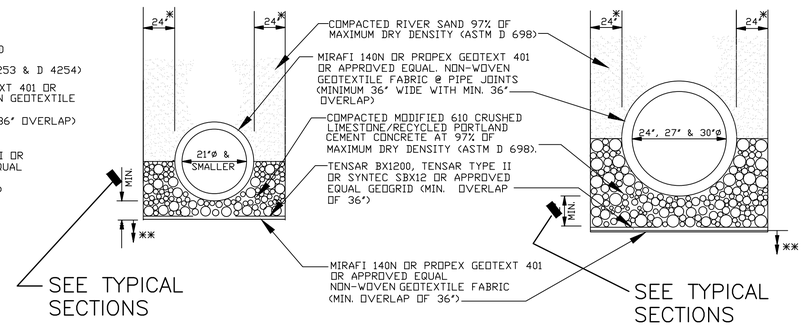
NO.	DATE	REVISION DESCRIPTION	BY



TYPICAL CONCRETE DRAINAGE PIPE TRENCH DETAIL

(36"-72" RCP) AND [42"-96" RCPA]

N.T.S.



SMALL (RCP) & [RCPA] PIPE TRENCH DETAILS

N.T.S.

NOTES:

*1. SIDE BEDDING WIDTH MAY BE REDUCED WITH JEFFERSON PARISH PROJECT ENGINEER'S APPROVAL.

2. THE DEPARTMENT OF ENGINEERING RESERVES THE RIGHT TO MODIFY PIPE BEDDING REQUIREMENTS IN ACCORDANCE WITH EXISTING FIELD CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

3. TRENCH SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. THE PARISH OR ITS REPRESENTATIVES RESERVE THE RIGHT TO REQUIRE THE CONTRACTOR TO MODIFY ANY PORTIONS OF SHORING SYSTEM DEEMED UNSAFE, BUT THE FINAL RESPONSIBILITY FOR THE WORKER'S SAFETY REMAINS WITH THE CONTRACTOR. TRENCH DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST OSHA STANDARDS AND REQUIREMENTS.

4. TIMBER SHEETING, IF USED, MUST REMAIN IN PLACE AND BE CUT OFF A MINIMUM OF 3 FEET BELOW FINISHED GRADE.

5. ALL CONCRETE PIPE SHALL BE A.S.T.M. C-76 (RCP) AND A.S.T.M. C-506 [RCPA], CLASS III, WALL B, REINFORCED CONCRETE PIPE WITH TYPE 2 JOINTS.

6. THE CONTRACTOR MUST REVIEW ALL DETAILS AND CHARTS INCLUDED ON THIS STANDARD DRAWING SHEET PRIOR TO BIDDING. FOR PIPES 36" AND LARGER, THE TRENCH DESIGN AND BEDDING THICKNESSES WILL VARY DEPENDING ON THE "UNDISTURBED SUBGRADE NET ALLOWABLE SOIL BEARING CAPACITY" VALUE. THE "DESCRIPTION SECTION" OF "TECHNICAL SPECIFICATIONS" FOR "CULVERTS AND STORM DRAINS" MUST REFERENCE THIS JEFFERSON PARISH STANDARD DRAWING AND MUST PROVIDE THE "UNDISTURBED SUBGRADE NET ALLOWABLE SOIL BEARING CAPACITY". VALUE.

**7 WHERE GROUND WATER OR AN UNSTABLE TRENCH BOTTOM EXISTS, THE TRENCH BOTTOM SHALL BE STABILIZED (ASTM D2321) TO PROVIDE A WORKING PLATFORM. REMOVE MUCK OR OTHER SOFT MATERIAL, TREE ROOTS, AND/OR ANY OTHER UNDESIRABLE MATERIAL FROM THE TRENCH BOTTOM TO A DEPTH NECESSARY TO ESTABLISH A FIRM FOUNDATION.

***8. GEOTECHNICAL REPORT'S RECOMMENDATIONS FOR PIPE BEDDING, IF MORE STRINGENT, SHALL SUPERSEDE THESE MINIMUM THICKNESSES.

(RCP) & [RCPA] MINIMUM BEDDING THICKNESS (IN.) **

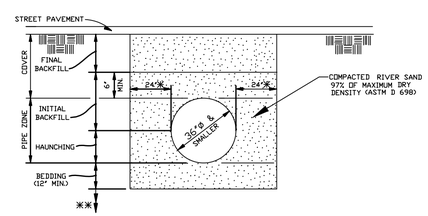
		UNDISTURBED SUBGRADE NET ALLOWABLE SOIL BEARING CAPACITY (psf.)				
		300–400	401–500	501–600	601–700	>700
PIPE SIZE (RCP) (RCPA)	BEDDING LAYER					
(36" & 42")	(1)	14"	18"	16"	14"	12"
[42" & 48"]	(2)	8"	8"	8"	8"	8"
TOTAL THICKNESS		28"	26"	24"	22"	20"
(48" & 54")	(1)	22"	20"	18"	14"	12"
[54" & 60"]	(2)	10"	10"	10"	10"	10"
TOTAL THICKNESS		32"	30"	28"	24"	22"
(60" & 72")	(1)	34"	30"	26"	16"	14"
[72",84"& 96"]	(2)	10"	10"	10"	10"	10"
TOTAL THICKNESS		44"	40"	36"	26"	24"

SEE TYPICAL SECTIONS

PIPE BEDDING LIMESTONE

57 LIMESTONE		
U.S. SIEVE	METRIC SIEVE	PERCENT PASSING
1½"	37.5 mm	100
1"	25 mm	95–100
½"	12.5 mm	25–60
#4	4.75 mm	0–10
#8	2.36 mm	0–5

MODIFIED 610 LIMESTONE		
U.S. SIEVE	METRIC SIEVE	PERCENT PASSING
1½"	37.5 mm	100
1"	25 mm	90–100
¾"	19 mm	70–100
½"	12.5 mm	60–90
⅜"	9.5 mm	50–80
#4	4.75 mm	35–65
#40	425 μm	12–32
#200	75 μm	5–12



PVC PIPE DRAIN LINE STANDARD TRENCH DETAIL

FOR PVC PIPE SDR-21, AND ULTRA CORR PVC PIPE (ASTM F-794 AND ASTM D2321) N.T.S.

MIN. COVER (PVC PIPE)	PAVEMENT TYPE
12"	CONCRETE
18"	ASPHALT
24"	NON-PAVED

LEGEND:

(1) BEDDING LAYER

(RCP) REINFORCED CONCRETE CIRCULAR (ROUND) PIPE.

[RCPA] REINFORCED CONCRETE ARCH PIPE

JEFFERSON PARISH
DEPARTMENT OF ENGINEERING

DRAWING TITLE: TYPICAL (RCP), (RCPA) & (PVC) PIPE TRENCH DETAILS

DRAWN BY C.J.	DATE 11/04/2011	DESIGNED BY M.R.M.	DATE 11/04/2011
REVISED BY C.J.	DATE 05/10/2012	REVISED BY –	DATE –
REVISED BY C.J.	DATE 07/11/2013	REVISED BY –	DATE –
REVISED BY C.J.	DATE 02/10/2015	REVISED BY ---	DATE ---
TOOLS AUTOCAD LT. 2008		VIEW TYPICAL PIPE TRENCH DETAILS	
FILE NUMBER –			

SHEET NUMBER STD8

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

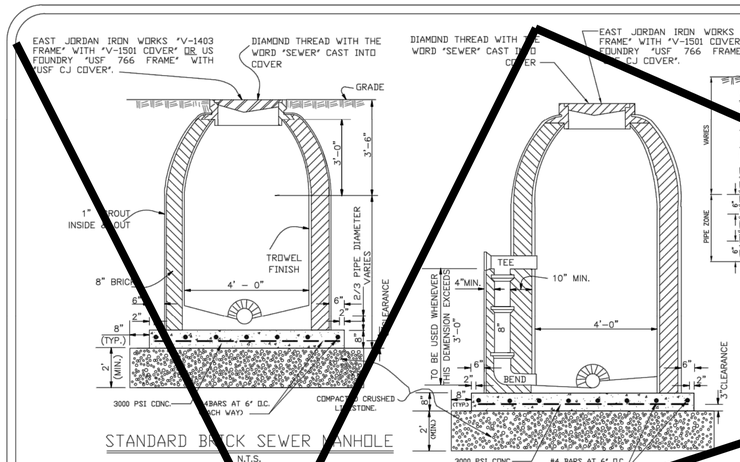
PIPE TRENCH DETAILS

BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # – 9344-8320 BASE BID

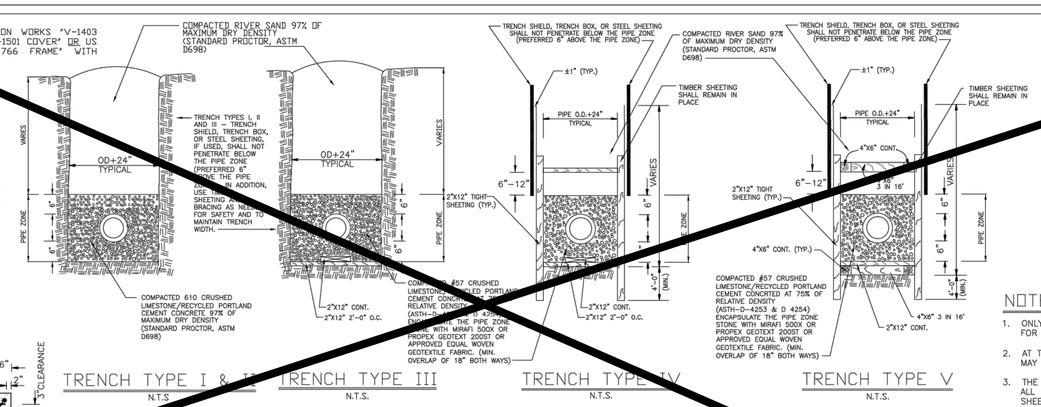
DESIGNED	R.P
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC., 2021
SHEET	8 OF 9

NO.	DATE	REVISION DESCRIPTION	BY



STANDARD BRICK SEWER MANHOLE
N.T.S.

DROP BRICK SEWER MANHOLE
N.T.S.



SANITARY SEWER STANDARD TRENCH DETAILS
N.T.S.

NOTE:
TIMBER SHEETING AND BRACING SHOWN ABOVE ARE MIN. REQUIREMENTS TO CONTROL THE WIDTH OF THE EXCAVATED TRENCH AND TO SAFEGUARD THE INTEGRITY OF THE SEWER FOUNDATION, BEDDING AND BACKFILL. IN ADDITION TO THESE MIN. REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE SUFFICIENT SHEETING AND BRACING TO PROVIDE SAFE WORKING CONDITIONS FOR HIS WORKMEN.

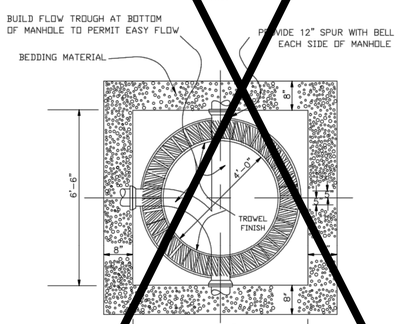
SEWERAGE TRENCH TYPE VS DEPTH (FEET)

SOIL TYPE	DEPTH 0-6	6-8	8-10
17	I	II	III	V
16	II	II	III	V
14	II	II	III	V
13	II	II	III	V
3	II	III	IV	V
9	II	III	IV	V
5	II	III	IV	V
20	II	III	IV	V
18	II	III	IV	V
4	II	III	IV	V
1	II	III	IV	V
11	II	III	IV	V
2	II	III	IV	V
8	II	III	IV	V

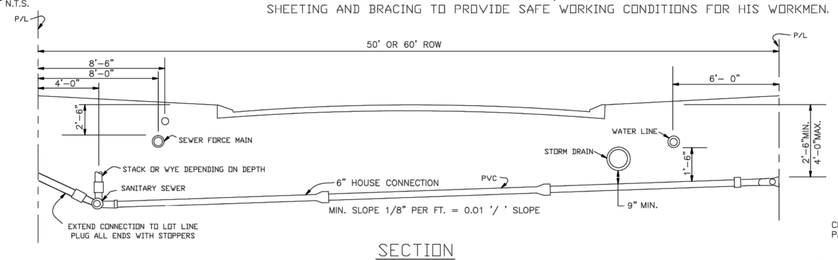
NOTES:

1. ONLY HARDWOOD SUCH AS OAK SHALL BE ALLOWED FOR SHEETING, BRACING, AND FOUNDATION LUMBER.
2. AT THE CONTRACTOR'S OPTION, FOUNDATION LUMBER MAY BE USED IN TRENCH TYPES I & II.
3. THE CONTRACTOR MUST REVIEW AND UNDERSTAND ALL DETAILS AND TABLES ON THIS STANDARD DRAWING SHEET PRIOR TO BIDDING. THE ABOVE TABLE DICTATES THE TYPE OF REQUIRED TRENCHES (TYPES I, II, III, IV, AND V) BASED ON THE SOIL TYPE (TYPES 1 – 20). THE SPECIFIC SOIL TYPE MUST BE IDENTIFIED IN THE BID DOCUMENTS FOR EACH CONSTRUCTION PROJECT. THIS, SIMPLY, CAN BE ACCOMPLISHED BY CIRCLING THE SOIL TYPE AND THE ASSOCIATED TRENCH TYPES (BOX THE ENTIRE ROW).
4. BEDDING MATERIALS FOR HOUSE CONNECTION TO BE IN CONFORMANCE WITH THE FOLLOWING SCHEDULE:

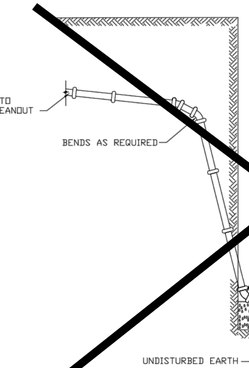
TYPE OF MAIN SEWER TRENCH BEDDING	TYPE OF REQUIRED HOUSE CONNECTION TRENCH BEDDING
V	IV
IV	III
III	II
II	I
I	CRUSHED LIME STONE OR GRAVEL ONLY



TYPICAL SEWER MANHOLE BOTTOM
N.T.S.



SECTION
N.T.S.

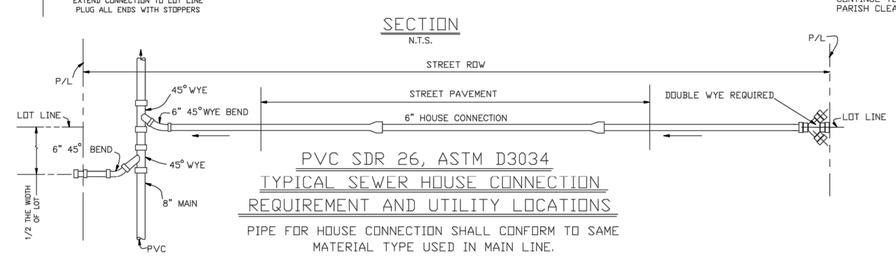


NOTE:
VERTICAL RISERS SHALL BE AVOIDED IF POSSIBLE. IF CONSTRUCTED, SPECIAL VERTICAL RISER SYSTEMS COMPONENTS (CONTROLLED SETTLEMENT JOINT, VERTICAL RISER ADAPTER, DEEP SOCKET 90 BEND, ETC.) SHALL BE USED AS PER 'ROYAL PLASTIC TRENDS MUNICIPAL SOLUTIONS' VERTICAL RISER SYSTEMS', OR APPROVED EQUAL. TEES OR TEE-WYES, WHICH ARE USED IN CONSTRUCTION OF A VERTICAL RISERS SHALL BE SDR26 FITTINGS.

SET WYE ON ANGLE REQUIRED. MINIMUM ANGLE 15° AND MAXIMUM ANGLE 45° MEASURED FROM HORIZONTAL TO CENTERLINE OF WYE BRANCH.

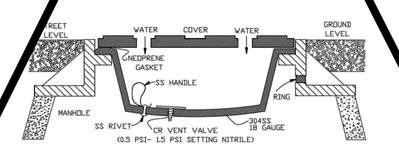
PIPE TRENCH TO JEFFERSON PARISH STANDARDS INCLUDING STONE, FOUNDATION LUMBER, FABRIC, ETC.

DEEP SEWER SERVICE CONNECTION
N.T.S.

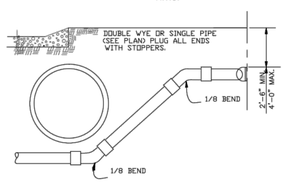


PVC SDR 26, ASTM D3034
TYPICAL SEWER HOUSE CONNECTION REQUIREMENT AND UTILITY LOCATIONS

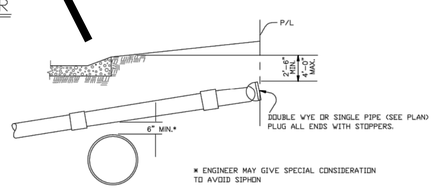
PIPE FOR HOUSE CONNECTION SHALL CONFORM TO SAME MATERIAL TYPE USED IN MAIN LINE.



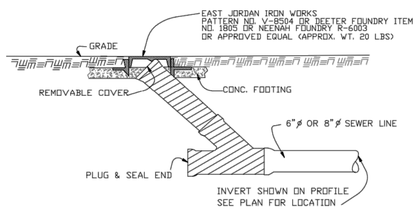
LIFESAVER STAINLESS STEEL STOPPER
N.T.S.



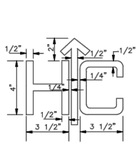
HOUSE CONNECTION UNDER DEEP DRAIN
N.T.S.



HOUSE CONNECTION OVER DRAIN
N.T.S.



CLEANOUT DETAIL
N.T.S.



NOTE:
1. CONTRACTOR TO HAVE BRAND FABRICATED & SUBMIT TO ENGINEER FOR APPROVAL.
2. LETTERS TO BE IMPRESSED IN FACE OF ROLL OVER CURB AT EACH SEWER HOUSE CONNECTION. IMPRESSIONS SHALL NOT BE MORE THAN 1/2" NOR LESS THAN 1/4"

LETTER DETAIL FOR HOUSE CONNECTION MARKING DEVICE
N.T.S.

JEFFERSON PARISH
DEPARTMENT OF ENGINEERING

DRAWING TITLE: SEWER STANDARD DETAILS

DRAWN BY: T.V.C.	DATE: 03/05/92	CHECKED BY: L.L.	DATE: 03/06/92		
REVISED BY: G.L.	DATE: 08/30/95	REVISED BY: P.D.	DATE: 05/30/00		
REVISED BY: H.J.W.	DATE: 07/27/00	DWF TO AUTOCAD BY: P.D.	DATE: 02/09/04		
REVISED BY: J.L.	DATE: 10/05/06	REVISED BY: C.J.	DATE: 07/11/13		
REVISED BY: R.A.B/C.J.	DATE: 03/23/15				
SOFTWARE: AUTOCAD LT. 2008		VIN: SEWER1.DWG			
FILE NUMBER: 003					

SCALE: AS SHOWN

SHEET NO. 1 OF 2

SHEET NUMBER: STD9

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

SEWER STANDARD DETAILS

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)486-1714

BKI JOB # – 9344-8320 BASE BID

DESIGNED	R.P
CHECKED	D.B.
DETAILED	S.G.
CHECKED	D.B.
DATE	DEC., 2021
SHEET	9 OF 9

NO.	DATE	REVISION DESCRIPTION	BY

GENERAL SITE NOTES

1. ALL EXISTING SURFACE AND SUBSURFACE UTILITIES ARE TO BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO CONSTRUCTION.
2. CONTRACTOR TO CALL "LOUISIANA ONE CALL" AT 1-800-272-3020 AT LEAST 5 WORKING DAYS BEFORE SCHEDULED DIGGING IN ORDER TO HAVE UNDERGROUND UTILITIES AND FACILITIES MARKED.
3. CONTRACTOR SHALL BEAR THE FULL RESPONSIBILITY OF VERIFYING LOCATIONS OF EXISTING SURFACE AND SUB-SURFACE SITE ELEMENTS AND UTILITIES.
   - 3.1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO SAID UTILITIES.
   - 3.2. CONTRACTOR SHALL ALLOW ADEQUATE TIME, IN THE CONSTRUCTION SCHEDULE, FOR FIELD VERIFICATION AND POTENTIAL DESIGN REVISIONS.
4. REFER TO WRITTEN SPECIFICATION FOR MORE DETAILED MATERIAL AND CONSTRUCTION REQUIREMENTS.
5. AFTER BIDDING, CALL THE LANDSCAPE ARCHITECT AT (504) 345-2639 TO ASK ANY QUESTIONS.
6. ALL PLANTED AREAS (WITHIN THE LANDSCAPE LIMIT-OF-WORK LINE) SHALL BE WATERED BY CONTRACTOR THROUGHOUT CONSTRUCTION.

SITE DEMOLITION AND PROTECTION NOTES

1. EXISTING SITE ELEMENTS SHALL REMAIN AND BE PROTECTED UNLESS DESIGNATED TO BE REMOVED AND/OR SALVAGED.
2. PROTECTION OF EXISTING FACILITIES AND SITE FEATURES SHALL INCLUDE ENTIRETY OF STRUCTURE, BOTH SURFACE AND SUB-SURFACE, UNLESS OTHERWISE NOTED.
   - 2.1. PROVIDE PROTECTION TO ALL FINISHED WORK UNTIL ACCEPTED BY OWNER.
   - 2.2. ALL EXISTING SITE ELEMENTS DESIGNATED AS REMAINING AND/OR PROTECTED SHALL BE CLEANED BY THE CONTRACTOR PRIOR TO FINAL ACCEPTANCE OF SITE WORK.
   - 2.3. WHEN CLEANING EXISTING SITE ELEMENTS, THE CONTRACTOR SHALL UTILIZE INDUSTRY STANDARDS AND RECOMMENDED PRACTICES FOR THE MATERIAL.
3. VERIFY THE LOCATION AND DIMENSION OF ITEMS TO BE REMOVED PRIOR TO COMMENCEMENT OF THE WORK.
4. DEMOLITION AND REMOVAL OF EXISTING FACILITIES SHALL INCLUDE ENTIRETY OF STRUCTURE, BOTH SURFACE AND SUB-SURFACE, UNLESS OTHERWISE NOTED.
5. ALL CONCRETE AND ASPHALT REMOVAL SHALL BE SAW CUT. EDGES OF MATERIAL TO REMAIN SHALL BE SHORED UP AND PROTECTED DURING CONSTRUCTION TO PRESERVE EDGE INTACT. REPAIRS TO DAMAGED EDGES TO BE DONE WITH CARE AND AT NO COST TO THE OWNER.
6. REMOVE DEMOLISHED MATERIALS FROM SITE.
7. DISPOSAL BY BURNING AND/OR BURYING IS PROHIBITED.
8. ITEMS ENCOUNTERED BELOW GRADE AND NOT SHOWN ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT IMMEDIATELY, PRIOR TO CONTINUATION OF WORK.

SITE MATERIALS NOTES

1. REFER TO THE JEFFERSON PARISH DEPARTMENT OF ENGINEERING STANDARD DRAWINGS FOR THE FOLLOWING SITE IMPROVEMENTS:
   - 1.1. ADA CURB RAMPS
     - 1.1.1. CURB RAMP FOR THE HANDICAPPED
       - 1.1.1.1. JP FILE NUMBER: 2925C
     - 1.1.2. HANDICAPPED REQUIREMENTS
       - 1.1.2.1. COMMERCIAL PLAN DETAIL NO. 5
       - 1.1.2.2. JP FILE NUMBER: ENV-09
   - 1.2. CONCRETE SIDEWALKS
     - 1.2.1. TYPICAL SIDEWALK DETAIL
       - 1.2.1.1. JP FILE NUMBER: 2922
   - 1.3. CONCRETE CURB AND GUTTER
     - 1.3.1. CURB AND CURB & GUTTER DETAILS
       - 1.3.1.1. JP FILE NUMBER: 3508
     - 1.3.2. DETAILS OF ROADWAY CURB AND GUTTER BOTTOM
       - 1.3.2.1. COMMERCIAL PLAN DETAIL NO.8
       - 1.3.2.2. JP FILE NUMBER: ENV-09
   - 1.4. LAYOUT AND CONSTRUCTION OF ASPHALT AND PORTLAND CEMENT CONCRETE ROADWAYS
     - 1.4.0.0. TYPICAL ROADWAY DETAILS SHT 1
       - 1.4.0.0.1. JP FILE NUMBER: 2925
     - 1.4.0.0. TYPICAL ROADWAY DETAILS SHT 2
       - 1.4.0.0.1. JP FILE NUMBER: 2925A
   - 1.5. DEMOLITION OF EXST. ROADWAY/UTILITY TRENCHING
     - 1.5.1. TYPICAL DETAILS FOR PATCHING CUT ACROSS PARISH STREETS
       - 1.5.1.1. COMMERCIAL PLAN DETAIL NO. 11
       - 1.5.1.2. JP FILE NUMBER: ENV-09
   - 1.6. RESTORATION OF ROADWAY PAVEMENT
     - 1.6.1. TYPICAL ROADWAY RESTORATION DETAIL
       - 1.6.1.1. JP FILE NUMBER: 2925C
   - 1.7. INSTALLATION OF PIPE WITHIN UTILITY TRENCH
     - 1.7.1. TYPICAL (RCP), (RCPA) & (PVC) PIPE TRENCH DETAILS
   - 1.8. STANDARD DIMENSIONS PARKING STALLS
     - 1.8.1. TYPICAL SPACE REQUIREMENTS FOR SELF-PARKING AT VARIOUS ANGLES
       - 1.8.1.1. COMMERCIAL PLAN DETAIL NO. 3
       - 1.8.1.2. JP FILE NUMBER: ENV-09
2. CONTRACTOR TO ENSURE LANDSCAPE ARCHITECT IS PRESENT AT THE COMMENCEMENT OF PAVER INSTALLATION TO CONFIRM ORIENTATION, ALIGNMENT, AND PATTERN OF PAVERS.

LAYOUT AND STAKING NOTES

1. ON-SITE VERIFICATION OF ALL DIMENSIONS AND CONDITIONS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
2. DISCREPANCIES BETWEEN NOTED DIMENSIONS, DRAWING SCALE, AND/OR FIELD CONDITIONS MUST BE RESOLVED WITH THE LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION OF THE SITE ELEMENT(S) IN QUESTION.
3. DIMENSIONS ANNOTATED ON ADDENDA AND CLARIFICATIONS TAKE PRECEDENT OVER PREVIOUS DOCUMENTS.
4. CONTRACTOR TO LAY OUT SITE ELEMENTS AND VERIFY LAYOUT IN THE FIELD WITH LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. CONTRACTOR TO GIVE LANDSCAPE ARCHITECT 24 HOURS NOTICE.
   - 4.1. CONTRACTOR TO LAY OUT LANDSCAPE ARCHITECTURAL SITE ELEMENTS IN CONJUNCTION, AS PART OF THE VERIFICATION PROCESS.
   - 4.2. SITE ELEMENTS ARE DIMENSIONED ON THE MATERIALS PLANS, LAYOUT PLAN, AND/OR PLANTING PLANS.
5. WHERE DIMENSIONS ARE CALLED AS "EQUAL," SPACE REFERENCED ITEMS EQUALLY, MEASURED TO THEIR CENTERLINES.
6. MEASUREMENTS ARE TO FACE OF BUILDING, WALL, OR FIXED SITE IMPROVEMENT. DIMENSIONS TO CENTERLINES IS AS INDICATED.
7. INSTALL INTERSECTING ELEMENTS AT 90 DEGREE ANGLES TO EACH OTHER, UNLESS OTHERWISE NOTED.
8. PROVIDE EXPANSION JOINTS WHERE CONCRETE FLATWORK MEETS VERTICAL STRUCTURES SUCH AS WALLS, CURBS, STEPS AND BUILDING ELEMENTS.

GRADING AND DRAINAGE NOTES

1. CONTRACTOR SHALL FIELD VERIFY EXISTING GROUND AND/OR SUB-DECK LINE PROFILE. PROPOSED ELEVATIONS FOR CONTOURS & DRAINAGE STRUCTURES ARE SUBJECT TO CHANGE BASED ON FIELD VERIFICATION OF EXISTING ELEVATIONS.
2. ALL GRADED SURFACES SHALL BE FINISHED TO UNIFORM LEVELS, SLOPED AND SMOOTHED WITHIN THE FOLLOWING TOLERANCES:
   - 2.1. FINISHED SURFACE SHALL BE WITHIN $\frac{1}{8}$ INCH OF SPECIFIED ELEVATION.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SET ALL NEW DRAIN LINES SO THAT POSITIVE DRAINAGE WILL OCCUR.
4. WATER (RAIN WATER, PLUMBING, SEWERAGE, ETC.) MAY NOT DRAIN ONTO ADJACENT SITES/PROPERTIES.
5. AT ENTRYWAYS TO BUILDINGS ALL WALKWAYS SHALL MEET THE FINISHED FLOOR ELEVATION WITH A MAXIMUM TRANSITION OF A $\frac{1}{2}$ INCH.
6. IN THE PUBLIC R.O.W. DIRECT THE SURFACE FLOW OF STORMWATER TOWARDS THE BIORETENTION CELLS.

SITE SOIL PREPARATION NOTES

1. DURING THE DEMOLITION AND EXCAVATION PHASE, REMOVE EXISTING SITE SOIL AND DISPOSE OF THE SOIL IN ACCORDANCE WITH SPECIFICATIONS. NOTIFY THE LANDSCAPE ARCHITECT ONCE THE SOIL HAS BEEN EXCAVATED AND REMOVED.
   - 1.1. NO EXCAVATED OR DISTURBED SITE SOILS MAY BE REUSED. NEW SOILS MUST BE BROUGHT TO THE SITE.
   - 1.2. NEW SOILS MAY REQUIRE AMENDMENT PRIOR TO INSTALLATION SO THAT THE SOIL MEETS THE SPECIFICATION REQUIREMENTS. THE ADDITION OF SOIL AMENDMENTS IS DETERMINED FROM SOIL TESTS CONDUCTED PRIOR TO WORK COMMENCING. SOIL AMENDMENT MAY INCLUDE:
     - 1.2.1. INORGANIC MATERIAL SUCH AS SAND, SILT, OR CLAY
     - 1.2.2. ORGANIC MATERIAL SUCH AS COMPOST, MANURE, ETC. PEAT MOSS IS NOT ALLOWED.
2. PRIOR TO THE INSTALLATION OF PLANTING , CONTRACTOR TO PREPARE AND TEST SITE SOILS TO ENSURE A PROPER ENVIRONMENT FOR PLANT ROOT DEVELOPMENT.
3. CONTRACTOR TO ENSURE SOILS LOCATED WITHIN PLANTING AREAS ARE DE-COMPACTED. DE-COMPACTION MAY BE ACHIEVED USING A ROTO-TILLING, DISKING, OR RIPPING TO A DEPTH OF 18 INCHES.
   - 3.1. WHEN PERFORMING SOIL DE-COMPACTION, MULTIPLE PASSES ACROSS THE AREA WILL BE REQUIRED AND, WHEN POSSIBLE, SHOULD BE AT VARYING ANGLES TO ENSURE ADEQUATE COVERAGE.
   - 3.2. WHEN USING DISC OR RIPPING EQUIPMENT, IT IS REQUIRED THAT THE FINAL PASSES OVER THE AREA BE MADE WITH A ROTO-TILLER TO BREAK UP ANY LARGE CLUMPS IN ORDER TO FACILITATE IN FINE GRADING ACTIVITIES.
4. CONTRACTOR TO ENSURE ALL DEBRIS OVER 2" IN DIAMETER HAS BEEN REMOVED FROM THE SOIL(S).
5. CONTRACTOR TO ENSURE THAT ALL SOIL AMENDMENTS ARE MIXED THOROUGHLY WITH THE EXISTING SOIL.
6. DURING THE REMAINDER OF THE PLANTING INSTALLATION, VARIOUS AREAS OF THE SITE MAY BE RE-COMPACTED DUE TO THE USE OF EQUIPMENT AND VEHICLES. THIS COMPACTION IS TYPICALLY ISOLATED WITHIN THE UPPER 4-6" OF THE SOIL. CONTRACTOR TO ENSURE THAT PRIOR TO THE INSTALLATION OF PLANT MATERIAL IN THESE AREAS, THE COMPACTION IS REDUCED TO 80% OR LESS USING PREVIOUSLY DESCRIBED METHODS.

WATERING NOTES

1. CONTRACTOR RESPONSIBLE FOR MAINTAINING AND WATERING PLANT MATERIAL AT DELIVERY, PRIOR TO INSTALLATION, ONCE INSTALLED, AND THROUGHOUT CONSTRUCTION.
2. CONTRACTOR TO ENSURE THAT THE SOILS WITHIN PLANT STORAGE NURSERY BE SATURATED SEMI-WEEKLY (TWICE EVERY 7 DAYS).
3. PLANTING AREAS AND PLANTERS TO RECEIVE 2 ½ TO (3) THREE INCHES OF WATER PER SATURATION.
   - 3.1. WATERING MAY BE APPLIED TO SINGLE-TRUNK TREES VIA TREE WATERING BAGS
   - 3.2. WATERING MAY BE APPLIED TO ALL OTHER PLANT MATERIALS VIA HAND WATERING.
4. WATER MEASUREMENTS MAY INCLUDE RAIN WATER DOCUMENTED BY THE NATIONAL WEATHER SERVICE OR PRE-APPROVED THIRD PARTY.
5. THE SCHEDULED WATERING MUST BE EVENLY DISPERSED WITHIN THE WEEK. THE CONTRACTOR MAY NOT WATER THE PLANTS ON CONSECUTIVE DAYS.

PLANTING NOTES

1. THE LOCATION OF ALL PLANTING AREAS AND THE SHRUBS WITHIN THEM ARE TO BE LAID OUT IN THE FIELD BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. GIVE LANDSCAPE ARCHITECT 72 HOURS NOTICE.
2. QUANTITIES ARE GIVEN FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING AN INDEPENDENT QUANTITIES TAKE-OFF TO DETERMINE QUANTITIES THAT MEET SPECIFIED SPACING, COVERAGE, AND THE DESIGN INTENT.
3. ALL SHRUBS SHALL BE CONTAINER GROWN UNLESS NOTED OTHERWISE.
4. PLANT MATERIAL MAY ONLY BE PRUNED BY THE NURSERY AT A MINIMUM THREE MONTHS PRIOR TO DELIVERY. THIS WILL HELP ENSURE ALL PLANTS ARE IN GOOD HEALTH WHEN DELIVERED TO THE SITE.
5. ONCE DELIVERED, PLANT MATERIALS MAY NOT BE PRUNED PRIOR TO INSTALLATION.
6. CONTRACTOR TO ENSURE THE LANDSCAPE ARCHITECT IS PRESENT DURING ALL SHRUB INSTALLATION AS WELL AS ALL POST INSTALLATION PRUNING SESSIONS.
7. CONTRACTOR TO ENSURE THAT THE PRUNING OF INSTALLED PLANT MATERIAL BE CONDUCTED BY THE FOLLOWING PROFESSIONALS. THESE PROFESSIONALS MUST ALSO HAVE A THOROUGH KNOWLEDGE OF THE DESIGN INTENT.
   - 7.1. SHRUBS AND HEDGES BY A LOUISIANA LICENSED LANDSCAPE HORTICULTURIST.
8. PRIOR TO INSTALLATION, ALL PLANT MATERIALS SHALL BE IRRIGATED AND STORED UPRIGHT (VERTICAL) WITH SUFFICIENT SUN PROTECTION TO PREVENT WILT, DIE BACK, AND/OR DRY OUT.
9. ALL PLANT MATERIAL MUST BE PROPERLY IDENTIFIED WITH NURSERY TAGS.
10. ALL PLANT MATERIAL MUST BE FREE OF DISEASE AND PESTS.
11. ALL PLANT MATERIAL MUST SHOW NO SIGNS OF PHYSICAL ROOT, ROOT FLARE, TRUNK, BRANCH, AND/OR CROWN DAMAGE.
12. PRIOR TO FINAL ACCEPTANCE, THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL THAT DOES NOT MEET THE STANDARDS DESCRIBED IN AMERICAN STANDARD FOR NURSERY STOCK, APPROVED BY ANSI.
13. REFER TO THE FOLLOWING SPECIFICATION SECTIONS FOR ALL REQUIREMENTS PERTAINING TO PLANTING:
   - 13.1. SECTION 32 93 00 PLANTS

DANA BROWN& Associates
1836 Valence Street New Orleans, LA 70115
504.345.2639

SHEET NUMBER G1

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)
GENERAL AND PLANTING NOTES

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # – 9344–8320– ADD ALT

DESIGNED	T.F.
CHECKED	D.D
DETAILED	T.F.
CHECKED	D.D.
DATE	DEC. 2021
SHEET	1 OF 1

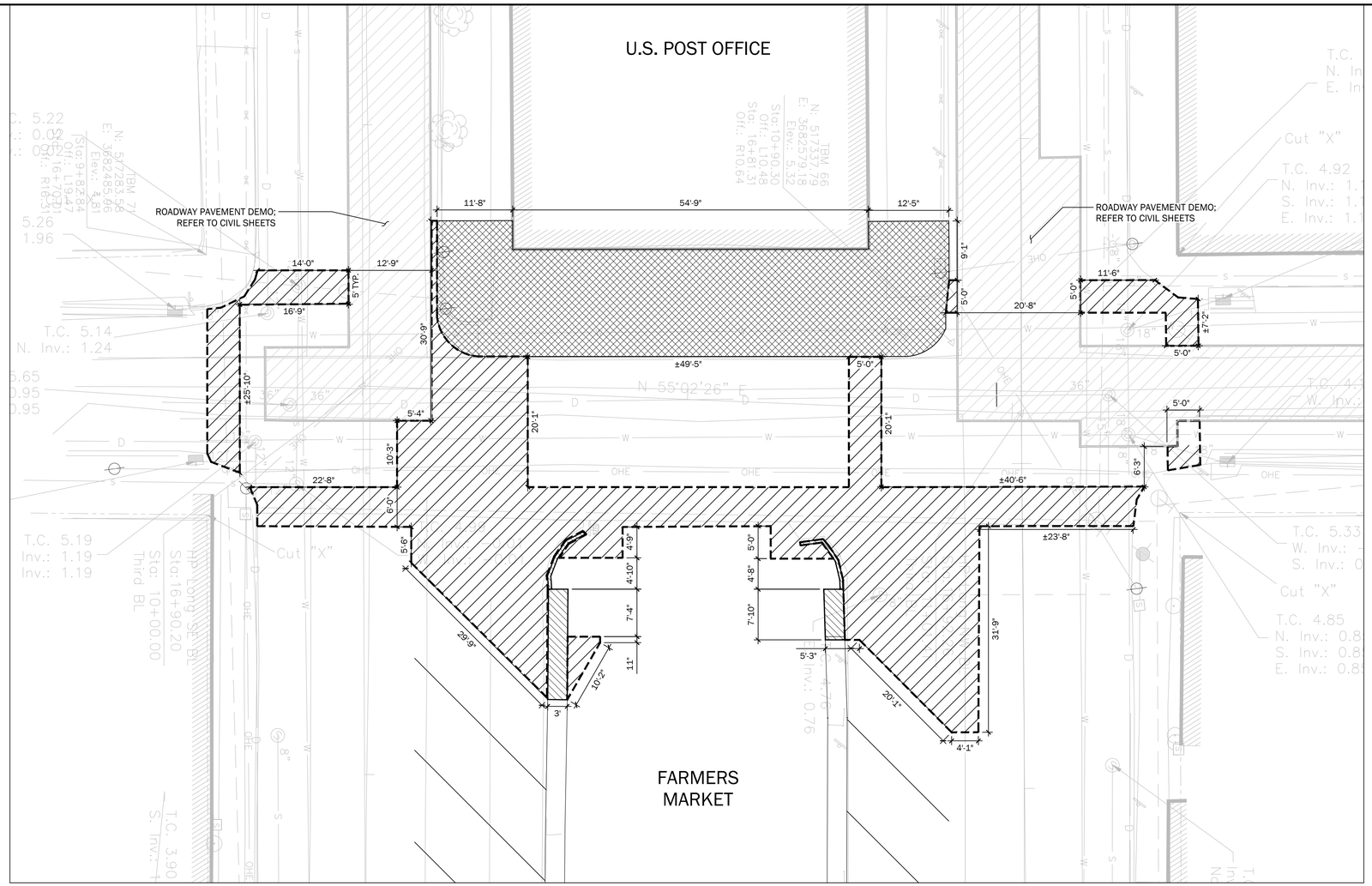
NO.	DATE	REVISION DESCRIPTION	BY

LEGEND:

- ROADWAY AND SUBBASE TO BE REMOVED
- CURB AND/OR GUTTER TO BE REMOVED
- STAMPED SIDEWALK TO BE REMOVED

NOTES:

1. REMOVAL OF ROADWAY SHALL INCLUDE ALL BASE COURSE AND SUBBASE MATERIALS, UNLESS OTHERWISE NOTED.



1 DEMOLITION PLAN

scale: 1" = 10' - 0"

0 5 10 20 40

SCALE: 1"=10'-0"

NORTH

DANA BROWN& Associates
1836 Valence Street New Orleans, LA 70115
504.345.2639

SHEET NUMBER G2

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

DEMOLITION PLAN

STATE OF LOUISIANA
DANA M. BROWN
NO. 23,000
REGISTERED PROFESSIONAL ENGINEER

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # – 9344-8320– ADD ALT

DESIGNED	T.F.
CHECKED	D.D
DETAILED	T.F.
CHECKED	D.D.
DATE	DEC. 2021
SHEET	1 OF 1

NO.	DATE	REVISION DESCRIPTION	BY

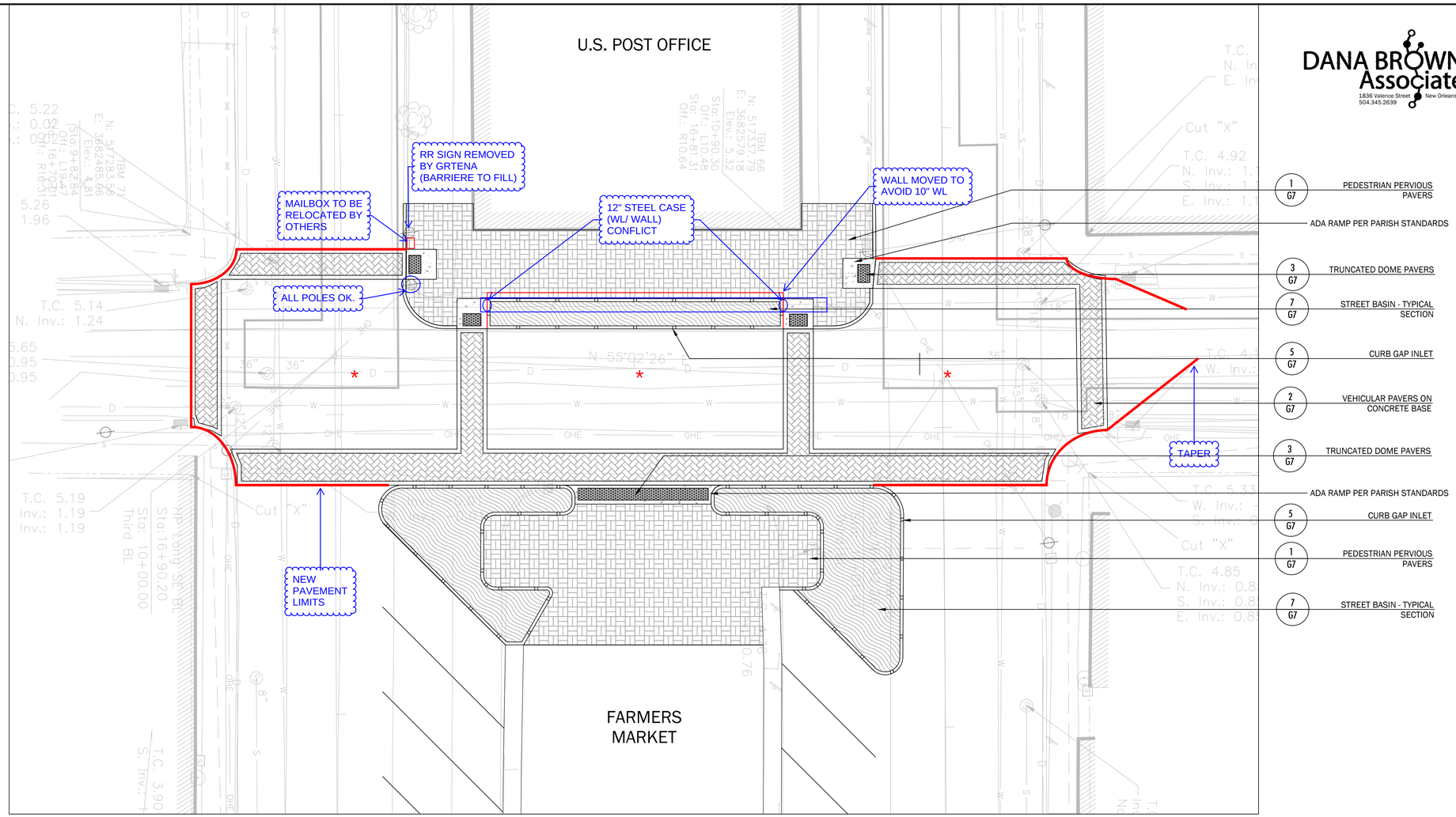
FILE NAME: T:\GRETNA DOWNTOWN DRAINAGE PHASE II (19-15)\CDS\3 - BID SET\1915_BID SET.DWG

LEGEND:

- VEHICULAR PAVERS: HERRINGBONE W/ SOLIDER COURSE
- PEDESTRIAN PAVERS: BASKETWEAVE W/ SOLIDER COURSE
- BIORETENTION AREA
- TRUNCATED DOME PAVERS

NOTES:

1. REMOVAL OF ROADWAY SHALL INCLUDE ALL BASE COURSE AND SUBBASE MATERIALS, UNLESS OTHERWISE NOTED.



1 MATERIALS PLAN

scale: 1" = 10' - 0"

0 5 10 20 40

SCALE: 1"=10'-0"

NORTH

* PAVEMENT CHANGES

DANA BROWN& Associates
1836 Valence Street New Orleans, LA 70115
504.345.2639

SHEET NUMBER G3

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)
MATERIALS PLAN

STATE OF LOUISIANA DANA M. BROWN 23 REGISTERED PROFESSIONAL ENGINEER

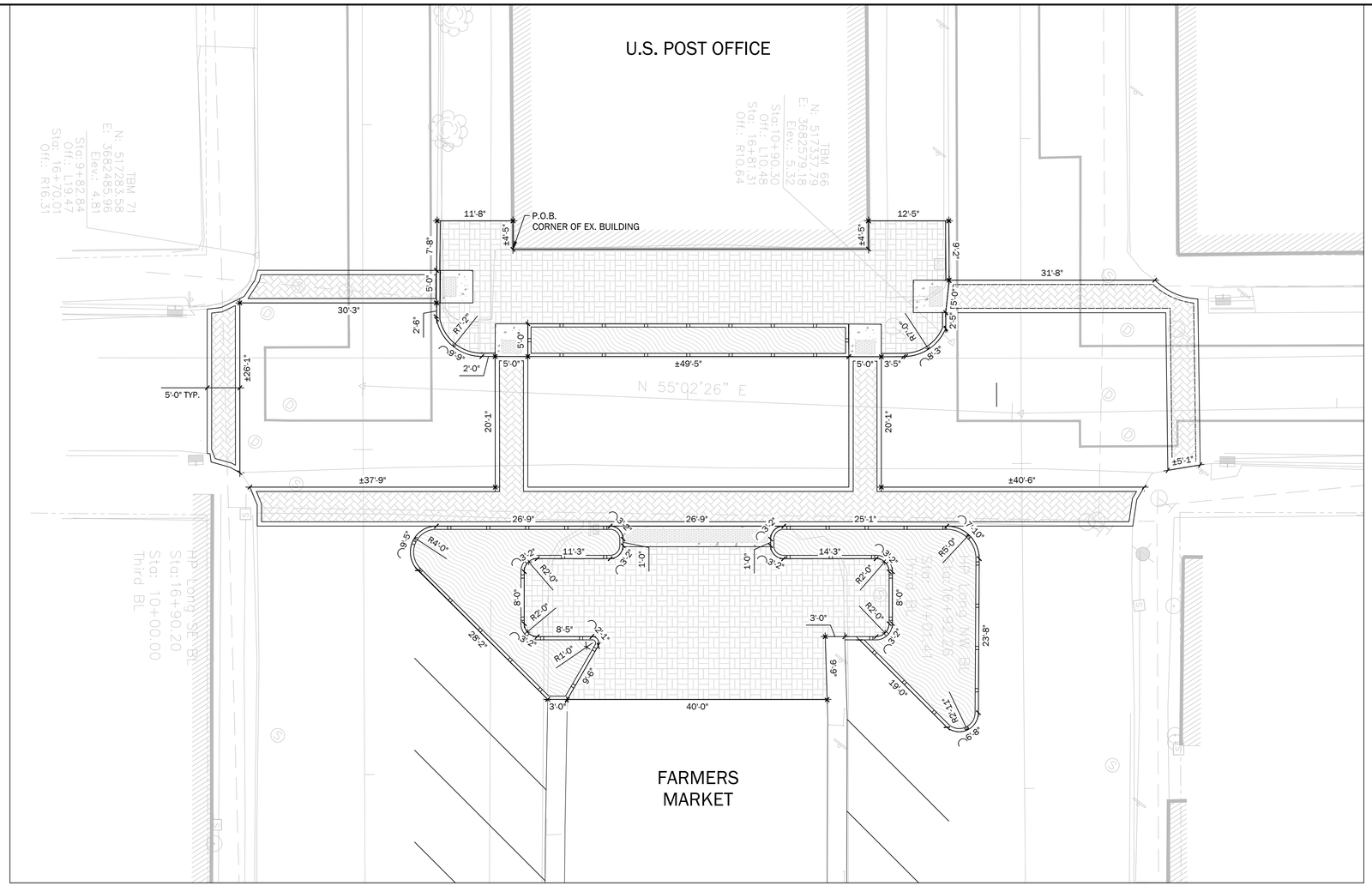
BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # – 9344-8320– ADD ALT

DESIGNED	T.F.
CHECKED	D.D
DETAILED	T.F.
CHECKED	D.D.
DATE	DEC. 2021
SHEET	1 OF 1

NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: T:\GRETNA DOWNTOWN DRAINAGE PHASE II (19-15)\CDS\3 - BID SET\1915_BID SET.DWG



1 LAYOUT PLAN

scale: 1" = 10' - 0"

0 5 10 20 40

SCALE: 1"=10'-0"

NORTH

DANA BROWN& Associates
1836 Valence Street New Orleans, LA 70115
504.345.2639

SHEET NUMBER G4

CITY OF GRETNA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

LAYOUT PLAN

STATE OF LOUISIANA
DANA M. BROWN
NO. 31788
LICENSED PROFESSIONAL ENGINEER

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # – 9344–8320– ADD ALT

DESIGNED	T.F.
CHECKED	D.D
DETAILED	T.F.
CHECKED	D.D.
DATE	DEC. 2021
SHEET	1 OF 1

NO.	DATE	REVISION DESCRIPTION	BY

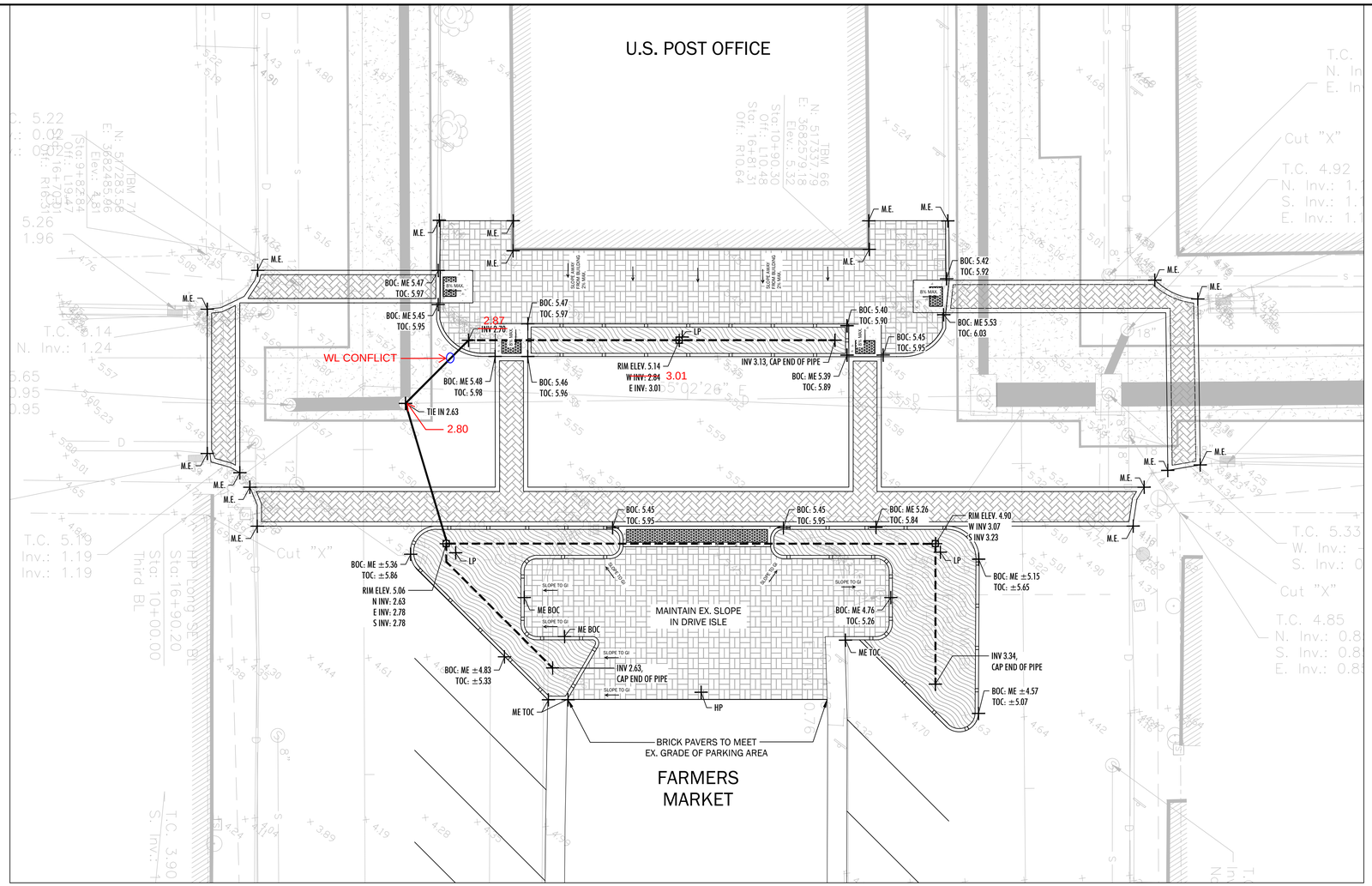
FILE NAME: T:\GRETNA DOWNTOWN DRAINAGE PHASE II (19-15)\CDS\3 - BID SET\1915_BID SET.DWG

LEGEND:

- SOLID PVC PIPE (6 INCH)
- PERFORATED PVC PIPE (6 INCH)
- STAND PIPE (6 / G7)
- 0.00 — PROPOSED ELEVATION
- M.E. — MEET EXISTING
- BOC / TOC — BOC: BOTTOM OF CURB; TOC: TOP OF CURB

NOTES:

1. ALL CROSSWALKS TO FOLLOW THE SLOPE OF THE ROADWAY PROFILE.
   1.1. MAX CROSS SLOPE ON CROSSWALKS SHALL BE 2%.
2. CROSSWALKS SHALL MEET THE EXISTING GRADE OF THE SIDEWALKS OR ADA RAMP.



1 GRADING & STORMWATER PLAN

scale: 1" = 10' - 0"

0 5 10 20 40

SCALE: 1"=10'-0"

NORTH

DANA BROWN& Associates
1836 Valence Street New Orleans, LA 70115
504.345.2639

SHEET NUMBER G5

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)

GRADING & STORMWATER PLAN

STATE OF LOUISIANA DANA M. BROWN 32 REGISTERED PROFESSIONAL ENGINEER

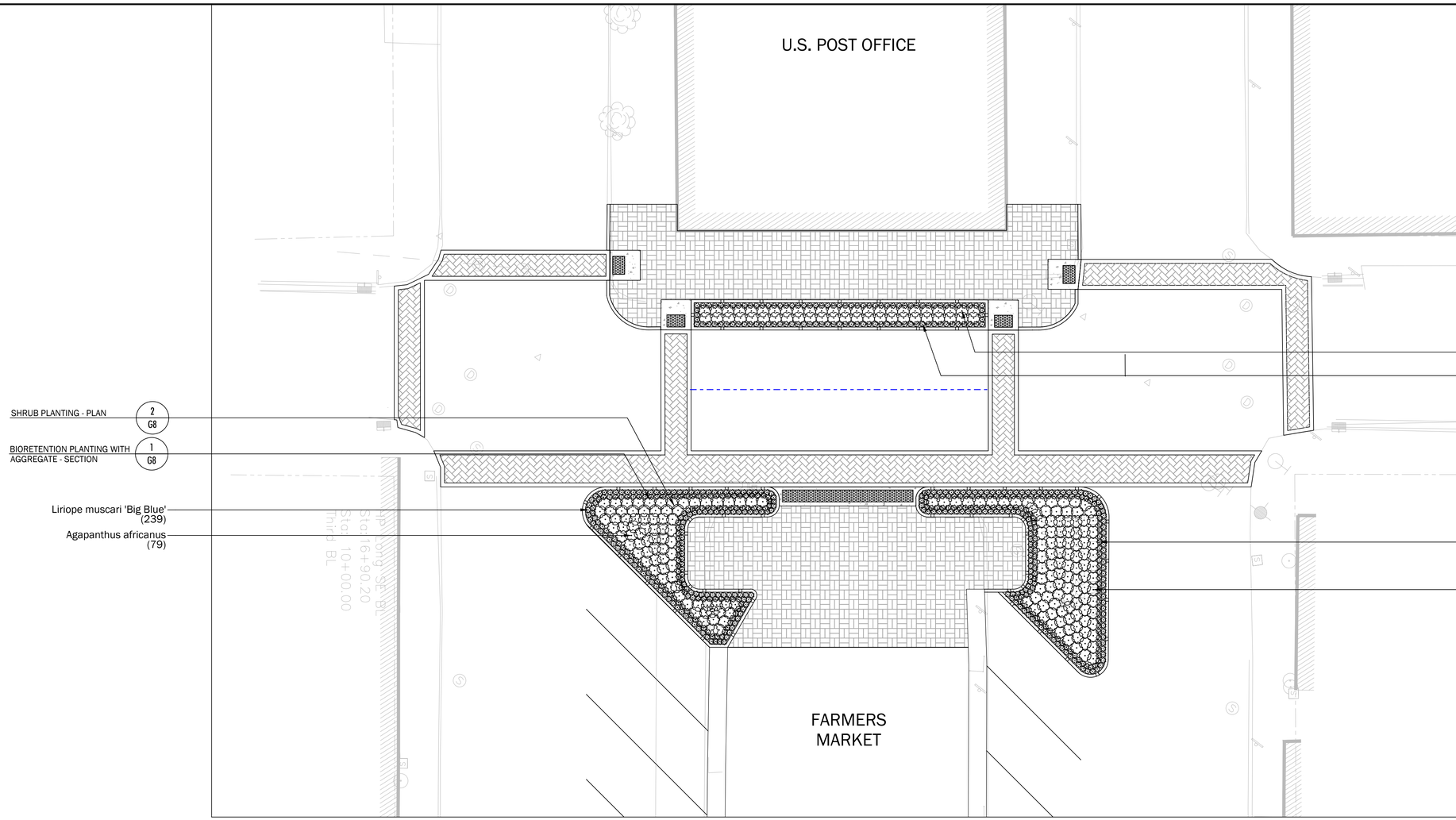
BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119–5994
PHONE (504)486–5901•FAX (504)488–1714

BKI JOB # – 9344–8320– ADD ALT

DESIGNED	T.F.
CHECKED	D.D
DETAILED	T.F.
CHECKED	D.D.
DATE	DEC. 2021
SHEET	1 OF 1

NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: T:\GRETNA DOWNTOWN DRAINAGE PHASE II (19–15)\CDS\3 – BID SET\1915_BID SET.DWG



1 PLANTING PLAN

scale: 1" = 10' - 0"

0 5 10 20 40

SCALE: 1"=10'-0"

NORTH

PLANT SCHEDULE			
SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE
	Agapanthus africanus	African Lily	1 gal.
	Liriope muscari 'Big Blue'	Big Blue Lilyturf	2.5 qt.

DANA BROWN& Associates
1836 Valence Street New Orleans, LA 70115
504.345.2639

SHEET NUMBER G6

CITY OF GRETNA LOUISIANA

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)
PLANTING PLAN

STATE OF LOUISIANA DANA M. BROWN LANDSCAPE ARCHITECT REGISTRATION NO. 0811 LICENSED PROFESSIONAL

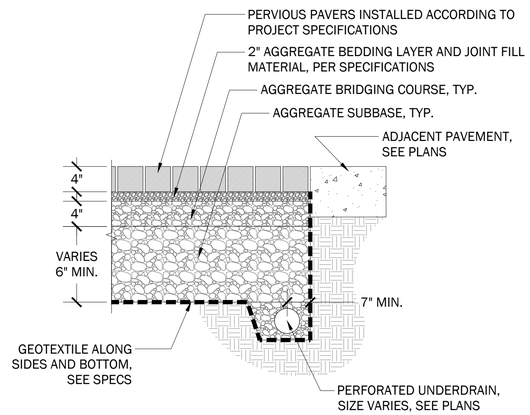
BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # - 9344-8320- ADD ALT

DESIGNED	T.F.
CHECKED	D.D
DETAILED	T.F.
CHECKED	D.D.
DATE	DEC. 2021
SHEET	1 OF 1

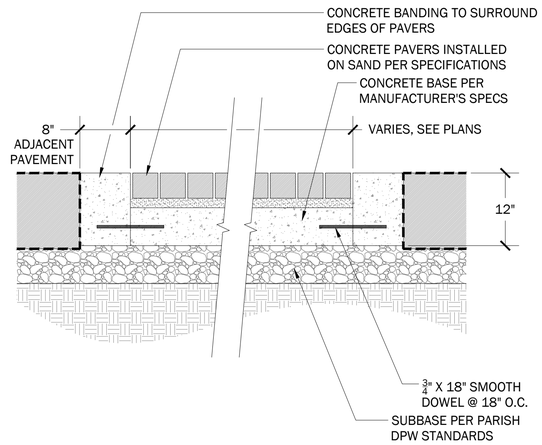
NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: T:\GRETNA DOWNTOWN DRAINAGE PHASE II (19-15)\CDS\3 - BID SET\1915_BID SET.DWG



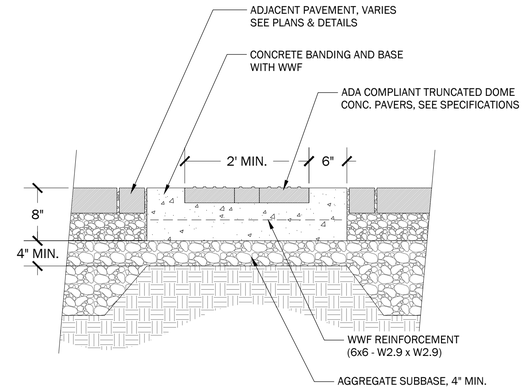
1 PEDESTRIAN PERVIOUS PAVERS

1" = 1'-0" PC-16XX-1608-02



2 VEHICULAR PAVERS ON CONCRETE BASE

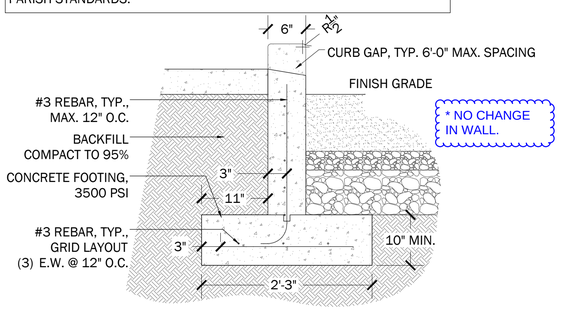
1" = 1'-0" PC-16XX-1608-11



3 TRUNCATED DOME PAVERS

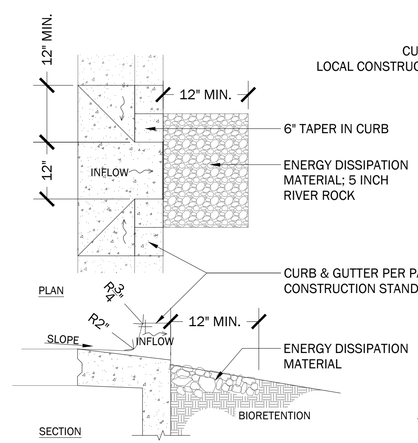
1" = 1'-0" P-1915-05

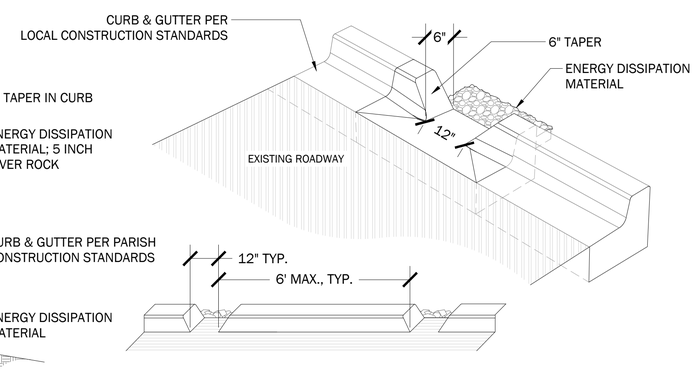
NOTE: CONCRETE CURB WALL IS TYPICAL AT ALL SITE WALLS ENCLOSING BIORETENTION AREAS. WHEN ADJACENT TO ROADWAYS, WALL CAP SHALL BE CONCRETE CURB AND GUTTER PER JEFFERSON PARISH STANDARDS.



4 CONCRETE CURB WALL

1" = 1'-0" P-1915-03

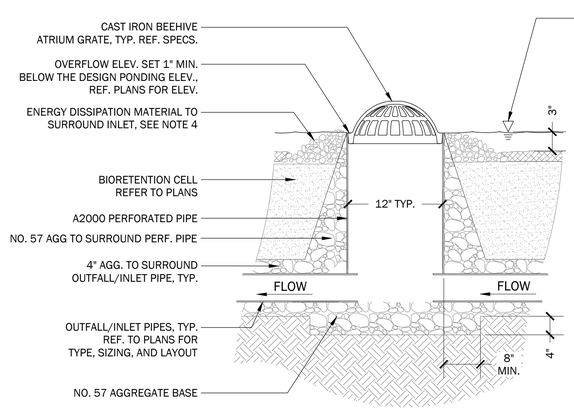




NOTE:
CURB GAP INLETS ARE TO BE PROVIDED AT ALL BARRIER CURBS ADJACENT TO BIORETENTION CELLS TO ALLOW FOR INFLOW OF STORMWATER, UNLESS OTHERWISE NOTED.

5 CURB GAP INLET

3/4" = 1'-0" P-1915-06

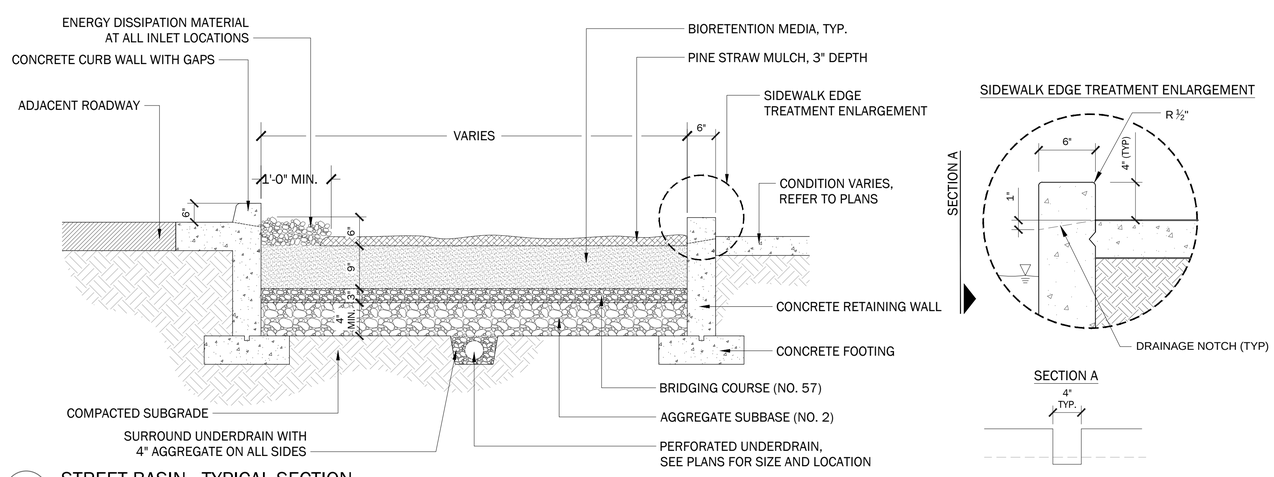


DESIGN PONDING ELEV. TO BE 1" BELOW THE LOWEST GRADE OF THE ADJACENT HARDSCAPE EDGE

NOTES:
1. SIZE OF GRATE SHALL MATCH SIZE OF RISER (APPROX. 12" TYP.) GRATE SHALL BE REMOVABLE TO PROVIDE MAINTENANCE ACCESS, AND SHALL BE BOLTED IN PLACE OR OUTFITTED WITH TAMPER-RESISTANT LOCKING MECHANISM. GRATE OPENING 4" MAX.
2. 12" TYP. CLEARANCE WITHIN OVERFLOW STRUCTURE SHALL BE PROVIDED FOR MAINTENANCE ACCESS.
3. INSTALL CAST IRON TRAP/HOOD PER MANUFACTURER'S RECOMMENDATIONS.
4. DISSIPATION MATERIAL DIAMETER SHALL BE LARGER THAN MAX. GRATE OPENINGS.

6 OVERFLOW STANDPIPE - SECTION

3/4" = 1'-0" P-1915-01



7 STREET BASIN - TYPICAL SECTION

3/4" = 1'-0" P-1915-02

FILE NAME: T:\GRETNA DOWNTOWN DRAINAGE PHASE II (19-15)\CDS\3 - BID SET\1915_BID SET.DWG

DANA BROWN & Associates
1836 Valence Street New Orleans, LA 70115
504.345.2639

SHEET NUMBER G7

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)
LANDSCAPE DETAILS

STATE OF LOUISIANA DANA M. BROWN LA REG. NO. 0081 LICENSED PROFESSIONAL ENGINEER

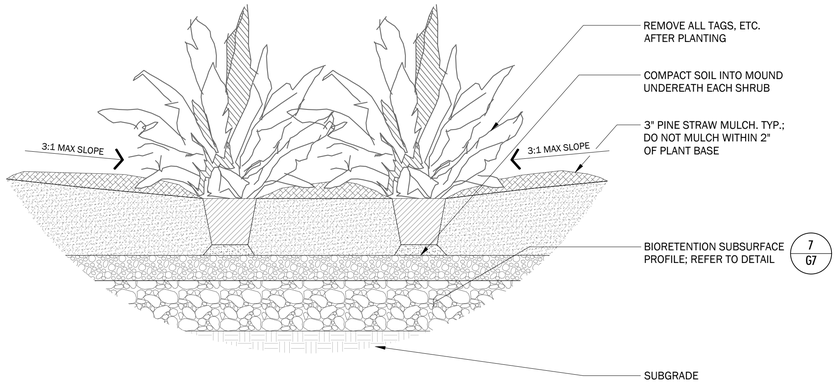
BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)486-1714

BKI JOB # - 9344-8320- ADD ALT

DESIGNED	T.F.
CHECKED	D.D
DETAILED	T.F.
CHECKED	D.D.
DATE	DEC. 2021
SHEET	1 OF 1

NO.	DATE	REVISION DESCRIPTION	BY

NOTES:
1. ENSURE ADJACENT SURFACES FLOW INTO PLANTING AREA

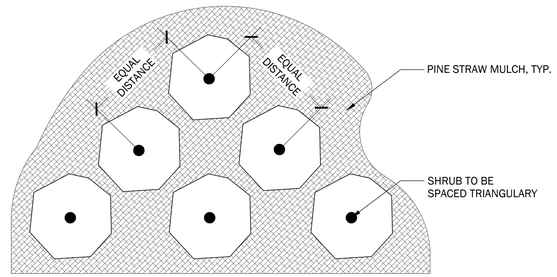


1 BIORETENTION PLANTING WITH AGGREGATE - SECTION

1" = 1'-0"

P-1915-04

NOTES:
1. SEE PLANTING LEGEND FOR SHRUB SPECIES, SIZE, AND SPACING.
2. SETTLE SOIL AROUND ROOT BALL OF EACH PLANT PRIOR TO MULCHING.



2 SHRUB PLANTING - PLAN

3/4" = 1'-0"

32 9333-01

DANA BROWN& Associates
1836 Valence Street New Orleans, LA 70115
504.345.2639

SHEET NUMBER G8

GRETNA DOWNTOWN DRAINAGE IMPROVEMENTS (PHASE 2)
LANDSCAPE DETAILS

STATE OF LOUISIANA DANA M. BROWN LICENSED LANDSCAPE ARCHITECT

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

BKI JOB # - 9344-8320- ADD ALT

DESIGNED	T.F.
CHECKED	D.D
DETAILED	T.F.
CHECKED	D.D.
DATE	DEC. 2021
SHEET	1 OF 1

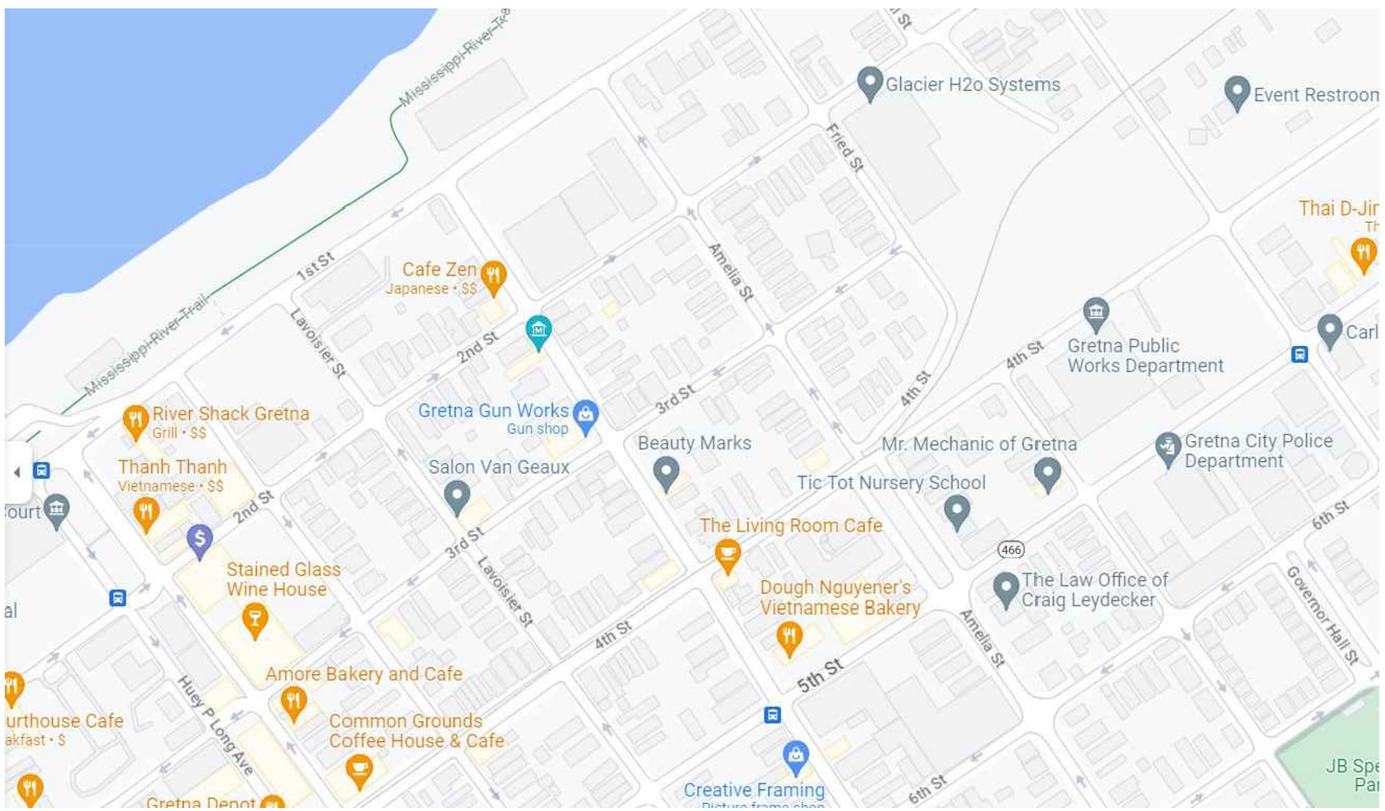
NO.	DATE	REVISION DESCRIPTION	BY

FILE NAME: T:\GRETNA DOWNTOWN DRAINAGE PHASE II (19-15)\CD9\3 - BID SET\1915_BID SET.DWG

GRETNA DOWNTOWN

DRAINAGE IMPROVEMENTS (PHASE 2)

ASBUILT PLANS



VICINITY MAP

INDEX

BARRIERE CONSTRUCTION
A CRH COMPANY

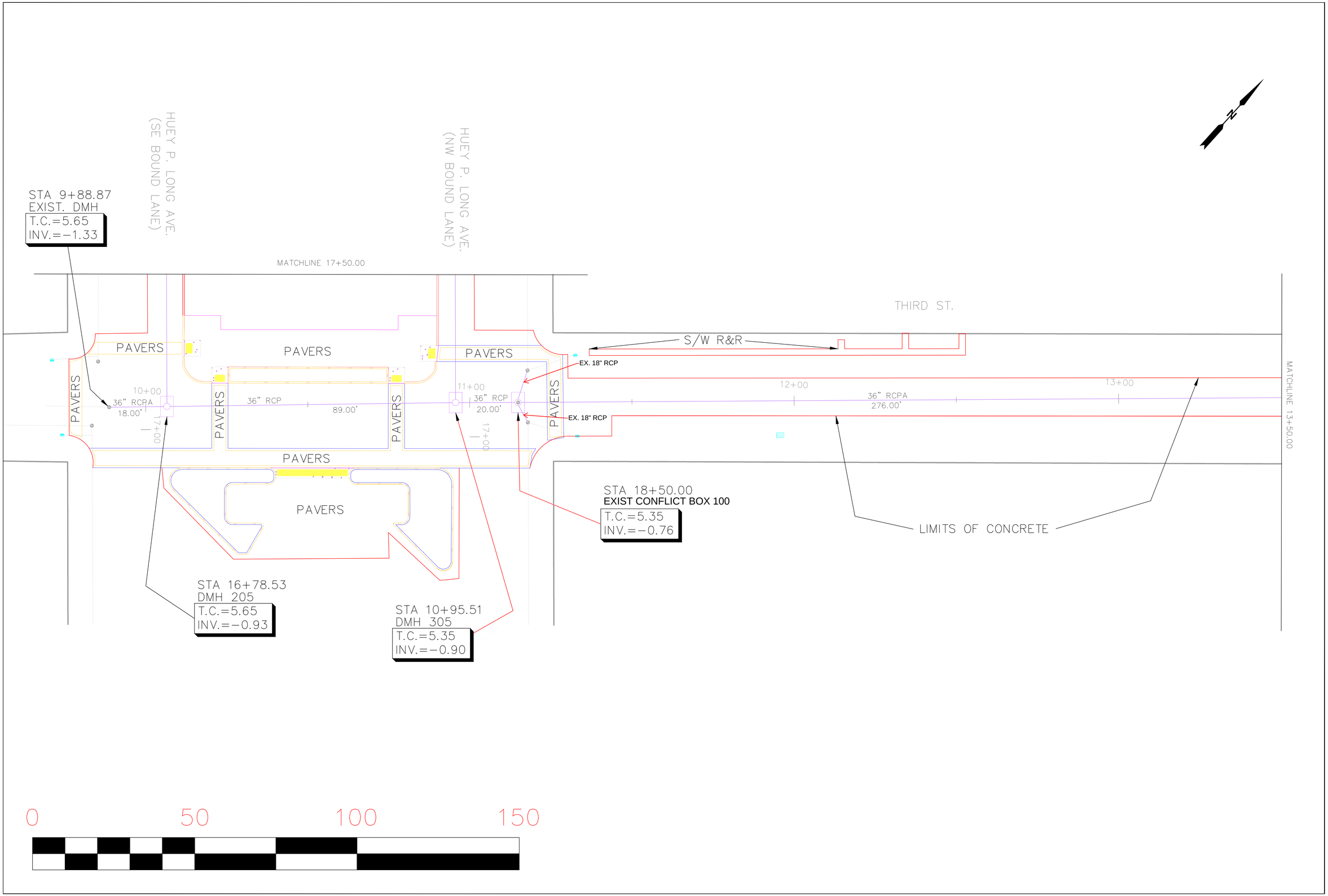
Jon Number: 220057.000

Gretna Downtown Drainage Improvements
Gretna, La 70053

Drawing Title: Cover Sheet

Notes:

C001



BARRIERE CONSTRUCTION
A CRH COMPANY

Jon Number: 220057.000

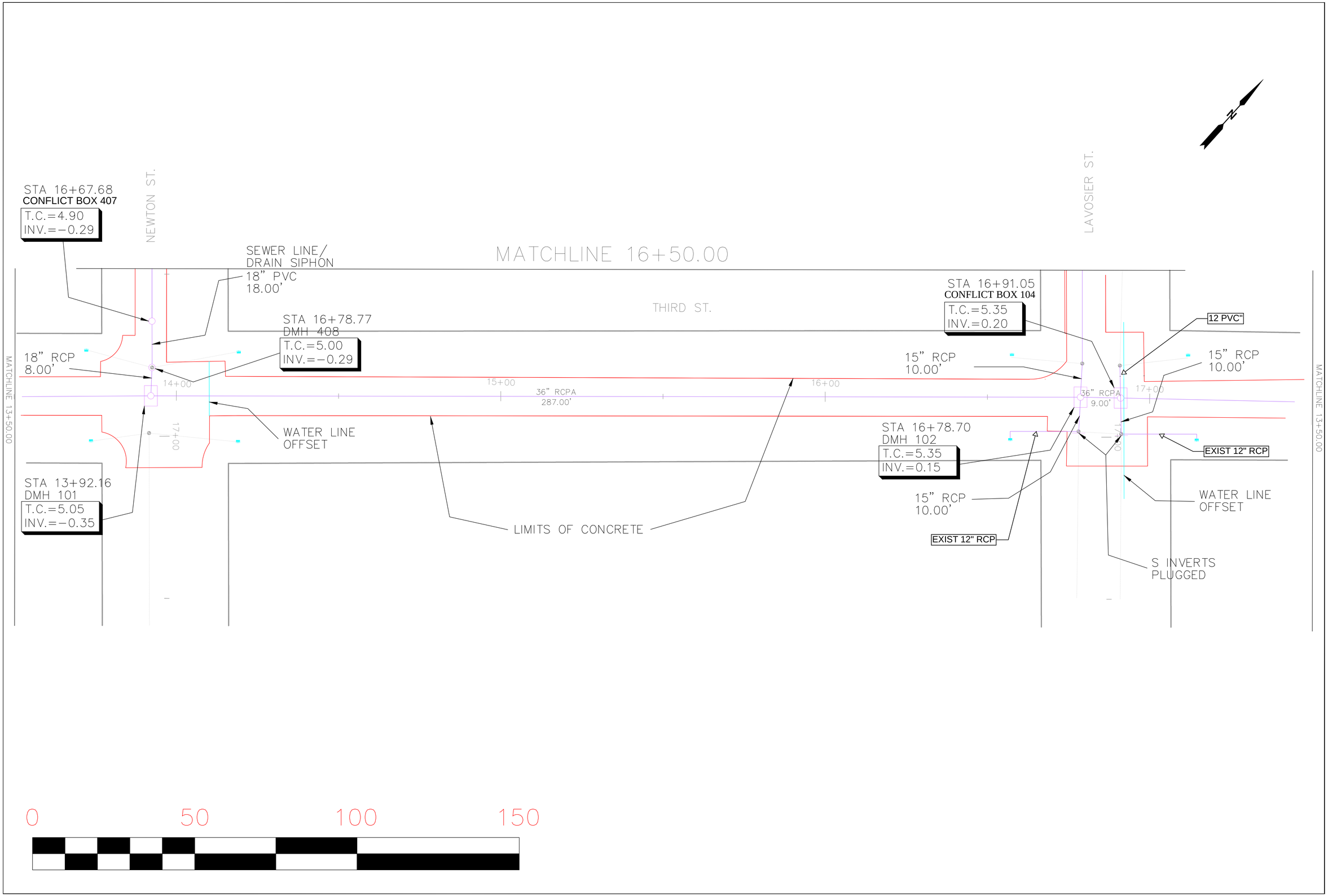
Gretna Downtown Drainage Improvements

Gretna, La 70053

Drawing Title: Utility & Roadway Asbuilts

Notes:

A001



BARRIERE CONSTRUCTION
A CRH COMPANY

Jon Number: 220057.000

Gretna Downtown Drainage Improvements

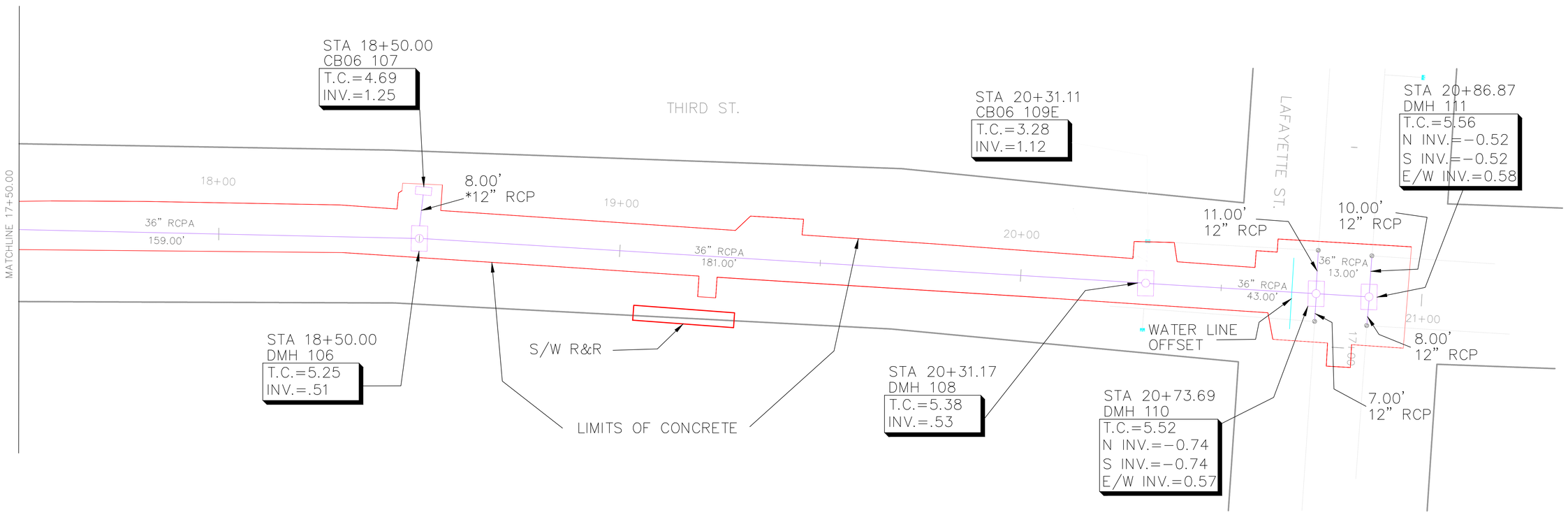
Gretna, La 70053

Drawing Title: Utility & Roadway Asbuilts

Notes:

A002

*size of pipe was changed from 15" to 12" rcp due to an existing waterline conflict in the invert elevation.



0 50 100 150

BARRIERE CONSTRUCTION
A CRH COMPANY

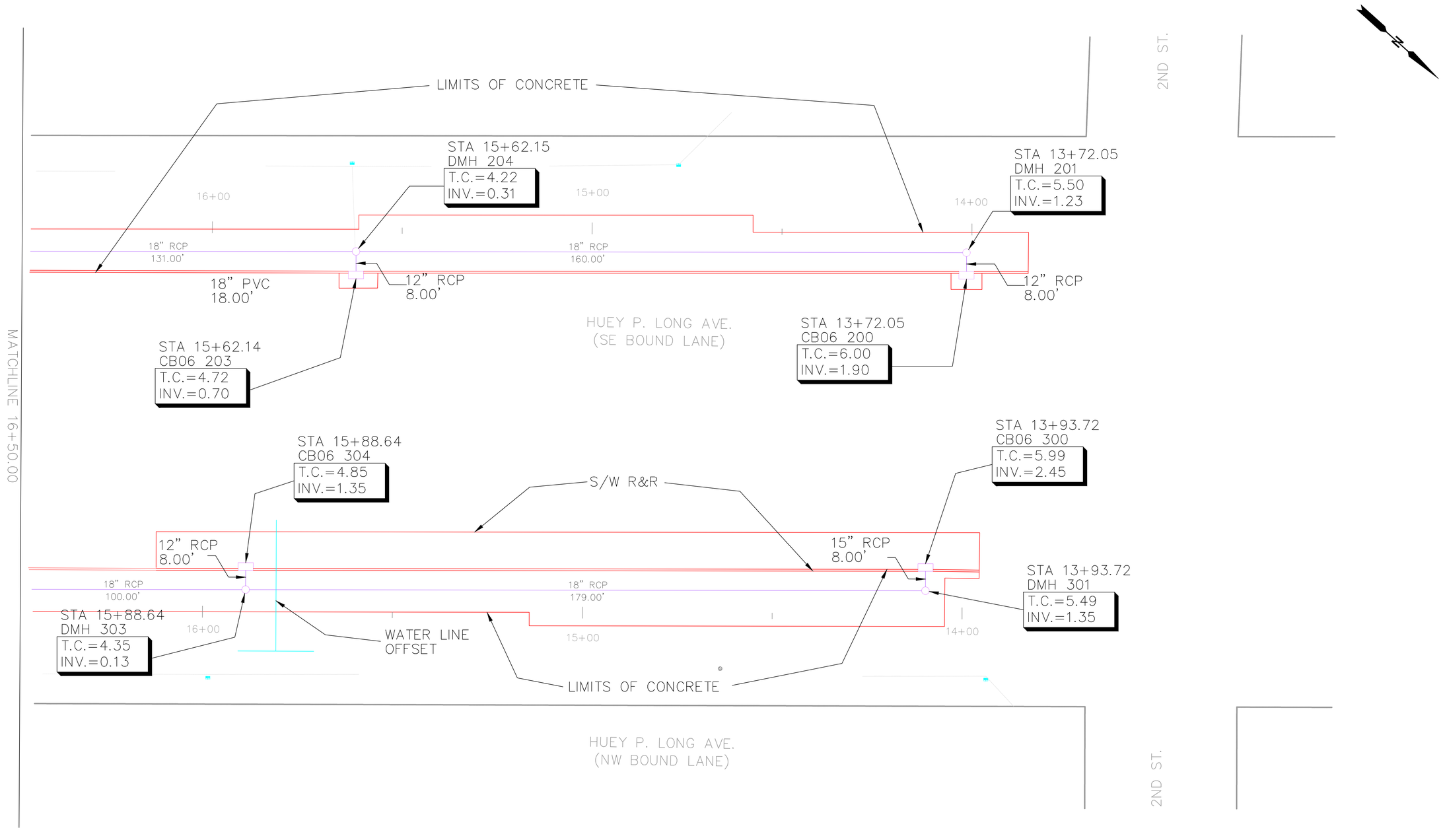
Jon Number: 220057.000

Gretna Downtown Drainage Improvements
Gretna, La 70053

Drawing Title: Utility & Roadway Asbuilts

Notes:

A003



BARRIERE CONSTRUCTION
A CRH COMPANY

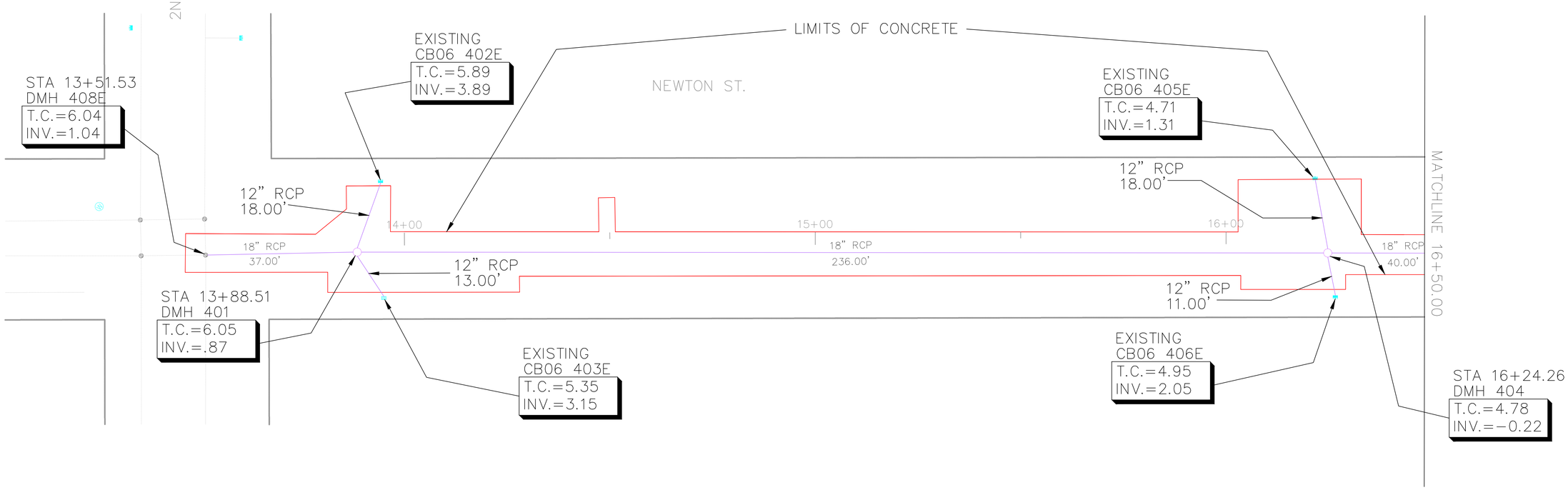
Jon Number: 220057.000

Gretna Downtown Drainage Improvements
Gretna, La 70053

Drawing Title: Utility & Roadway Asbuilts

Notes:

A004



0 50 100 150

BARRIERE CONSTRUCTION
A CRH COMPANY

Jon Number: 220057.000

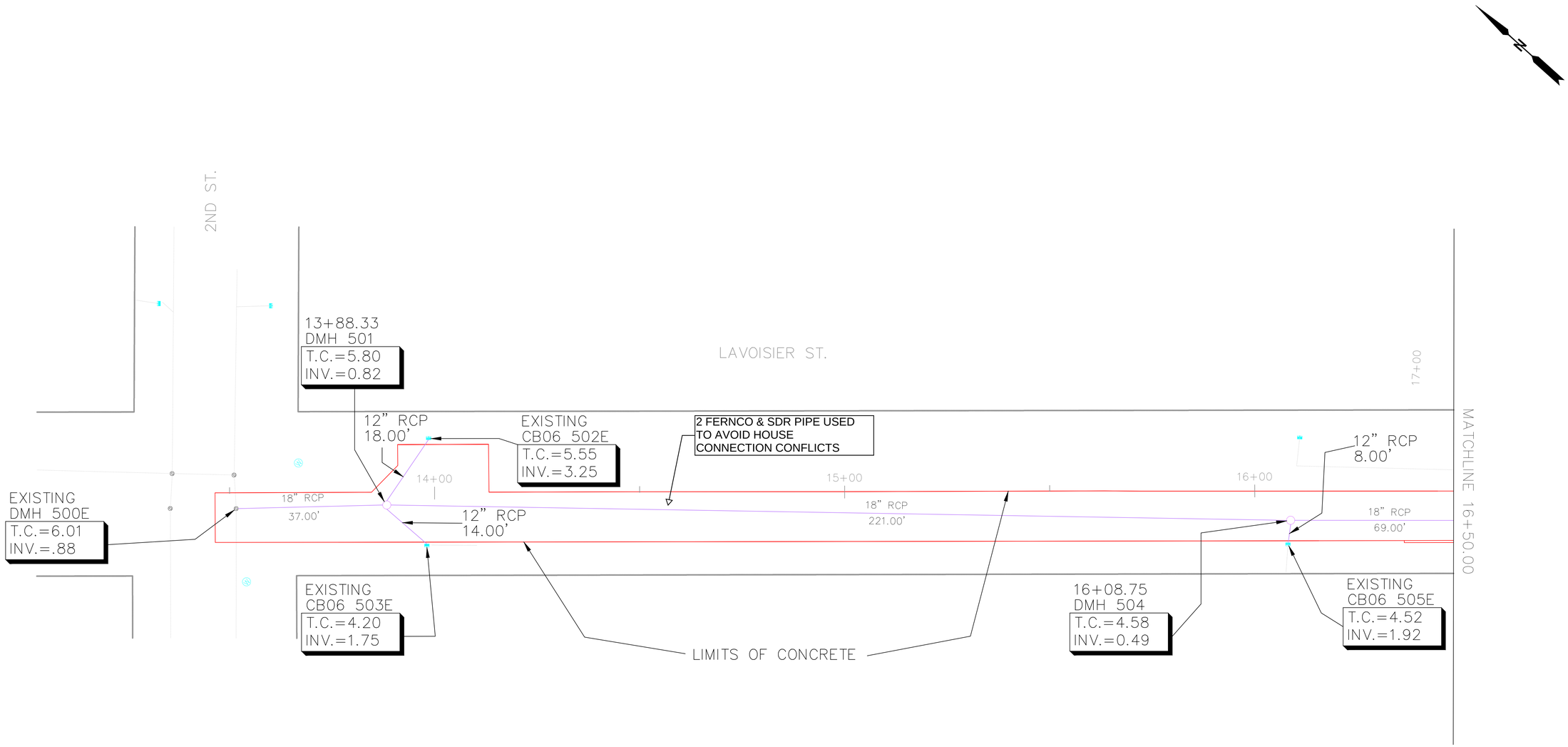
Gretna Downtown Drainage Improvements

Gretna, La 70053

Drawing Title: Utility & Roadway Asbuilts

Notes:

A005



BARRIERE CONSTRUCTION
A CRH COMPANY

Jon Number: 220057.000

Gretna Downtown Drainage Improvements

Gretna, La 70053

Drawing Title: Utility & Roadway Asbuilts

Notes:

A006

SYMBOL SCHEDULE

LIGHTING SYMBOLS

	DESCRIPTION
	SINGLE ARM ROADWAY LUMINAIRE. LETTER DENOTES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.
	POST TOP LUMINAIRE. LETTER DENOTES LUMINAIRE TYPE. SEE LUMINAIRE SCHEDULE.

POWER SYMBOLS

	DESCRIPTION
	DISCONNECT SWITCH. FUSED UNLESS OTHERWISE NOTED.
J J	JUNCTION BOX.
T	TRANSFORMER

WIRING SYMBOLS

	DESCRIPTION
	WIRING (IN CONDUIT) RUN EXPOSED.
UG	WIRING UNDERGROUND (SITE WORK).
OHP	WIRING OVERHEAD (SITE WORK).
S	SEWER LINE.
D	DRAIN LINE.
W	WATER LINE.
L:1,3	HOMERUN TO PANELBOARD WITH NOMENCLATURE (LETTERS), CIRCUIT NUMBERS (NUMBERS), NUMBER OF CIRCUITS (NUMBER OF ARROWS), EACH CIRCUIT TO HAVE GROUND.
	GROUND CONNECTION
	CONDUIT TURNED UP.
	CONDUIT TURNED DOWN.
	CONDUIT STUBBED OUT.
	PULL BOX. NEMA CONFIGURATION AS NOTED.
	6" SCH. 80 PVC CONDUIT 'CASING' (UNDERGROUND) WITH 2" PVC CONDUIT AND CONDUCTORS AS INDICATED

ONE-LINE SYMBOLS

	DESCRIPTION
M	METER ENCLOSURE.
M	METER.
	CIRCUIT BREAKER.
	SWITCH, SINGLE POLE-SINGLE THROW.
	FUSE.
	DRY TYPE TRANSFORMER.
•	EXOTHERMIC WELD CONNECTION

REFERENCE SYMBOLS

	DESCRIPTION
1	REFERENCE NOTE.
1	SPECIFIC NOTE REFERENCE.
1	CALL OUT REFERENCE.
1	REVISION REFERENCE.
A E1 E2	DETAIL REFERENCE: "A" DENOTES DETAIL "E1" DENOTES SHEET NUMBER WHERE DETAIL IS TAKEN "E2" DENOTES SHEET NUMBER WHERE DETAIL IS DRAWN

MISC. SYMBOLS

	DESCRIPTION
X	TO BE REMOVED

GENERAL NOTES:

1. ALL WIRING, DUCT LINE CONDUIT, APPARATUS, DEVICES, LUMINAIRES, EQUIPMENT AND FOUNDATIONS SHALL CONFORM TO CITY OF GRETNA REQUIREMENTS, APPLICABLE ORDINANCES OR RESOLUTIONS AND THEIR STANDARD DETAILS FOR CONSTRUCTION OF SAME. ALL WIRING SHALL BE IN CONDUIT.
2. THE ELECTRICAL CONTRACTOR SHALL SECURE ALL PERMITS FOR HIS WORK AND ARRANGE FOR ALL INSPECTIONS REQUIRED.
3. THE ELECTRICAL CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO CONSTRUCT A COMPLETE STREET LIGHTING SYSTEM AS SHOWN IN THE PLANS AND AS COMPLYING WITH CITY OF GRETNA REQUIREMENTS.
4. THE ELECTRICAL CONTRACTOR SHALL SECURE APPROVALS FOR HIS WORK IN WRITING FROM THE CITY OF GRETNA AND SHALL PRESENT THE APPROVAL TO THE OWNER BEFORE FINAL PAYMENT.
5. THE LOCATION SHOWN ON PLANS OF EXISTING UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL CAREFULLY VERIFY THESE LOCATIONS AND TAKE WHATEVER PRECAUTIONS NECESSARY TO AVOID DAMAGE TO EXISTING UTILITIES.
6. THE CONTRACTOR WILL BE REQUIRED TO FURNISH HIS OWN CONSTRUCTION LAYOUT FOR THE STREET LIGHT STANDARDS.
7. CITY OF GRETNA HAS EXAMINED THE LOCATION OF THE STREET LIGHTS AND APPROVES OF THESE LOCATIONS. IT IS HEREBY UNDERSTOOD THAT CITY OF GRETNA RESERVES THE RIGHT TO REQUIRE RELOCATION OF SAID STREET LIGHTS, THE SAME ARE TO BE RELOCATED AT THE COST AND EXPENSE OF THE PARTY DESIRING RELOCATION. ALL RELOCATION OF STREET LIGHTS MUST HAVE THE PRIOR APPROVAL OF CITY OF GRETNA.
8. ALL UTILITIES SHALL MEET WITH THE REQUIREMENTS OF THE LOCAL UTILITY PROVIDER AND SHALL ALSO COMPLY WITH ALL GROUNDING REQUIREMENTS AS SPECIFIED BY THE PLANS, SPECIFICATIONS, AND THE 2014 NATIONAL ELECTRICAL CODE (N.E.C.)
9. WHEN ANY PART OF A WIRING INSTALLATION IS TO BE CONCEALED FROM VIEW OR NOT READILY ACCESSIBLE, THE PERSON SUPERVISING AND INSTALLING THE DUCT OR WIRING SHALL NOTIFY CITY OF GRETNA LOCAL CODE ENFORCEMENT. ANY SUCH PARTS OF THE WIRING INSTALLATION SHALL NOT BE CONCEALED UNTIL THEY HAVE BEEN INSPECTED AND APPROVED, PROVIDED THAT ON SUCH INSTALLATION THE CONCEALMENT OF PARTS OF THE WIRING MUST, AT THE DISCRETION OF THE ELECTRICAL INSPECTOR, NECESSARILY PROCEED CONTINUOUSLY.
10. UNLESS NOTED OTHERWISE IN THE PLANS, THERE SHALL BE RUN THE LENGTH OF THE SYSTEM, AN EQUIPMENT GROUNDING CONDUCTOR A MINIMUM OF NO. 10 AWG COPPER FOR GROUNDING ALL SERVICE FEEDERS, LIGHT STANDARDS, POLES AND HEADS, RECEPTACLES, METALLIC SECTIONS OF RACEWAYS, AND OTHER METALLIC EQUIPMENT. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED CONDUCTORS.
11. THE CONTRACTOR SHALL PROVIDE AND INSTALL 2-10 AMP IN-LINE FUSES IN FUSE HOLDERS WITH BOOTS IN THE BASE OF EACH POLE PER LUMINAIRE WITH CIRCUITS FEEDING LUMINAIRES (EACH CONNECTION SHALL BE COVERED WITH INSULATION EQUAL TO THE INSULATION OF THE CONDUCTOR)
12. ALL CONDUIT FOR STREET LIGHTING SYSTEMS WHERE EXPOSED SHALL BE GALVANIZED RIGID STEEL CONDUIT. ALL SUPPORT MATERIALS (EXCLUDING FASTENERS AND HARDWARE) SHALL BE HOT DIP GALVANIZED OR STAINLESS STEEL.
13. EQUIPMENT AND MATERIAL SHALL NOT BE ORDERED OR INSTALLED UNTIL IT IS APPROVED BY THE ENGINEER.
14. EQUIPMENT LAYOUTS ARE DIAGRAMMATIC, AND THEY DO NOT SHOW EXACT EQUIPMENT LOCATIONS. THE EXACT LOCATIONS OF LIGHT POLES, CONDUITS, JUNCTION BOXES, ECT., SHALL BE AS DIRECTED BY THE PROJECT ENGINEER. THE CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS WHICH SHOW THE FINAL INSTALLED LOCATIONS OF THE EQUIPMENT.
15. ALL SUPPORT MATERIALS, INCLUDING FASTENERS AND HARDWARE, SHALL BE HOT DIP GALVANIZED OR TYPE 316 STAINLESS STEEL.
16. THE PLANS DO NOT NECESSARILY SHOW ALL UNDERGROUND FACILITIES. BEFORE BEGINNING EXCAVATION, THE CONTRACTOR SHALL CHECK THE AREA FOR EVIDENCE OF UNDERGROUND FACILITIES. THE CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGE TO ANY UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR'S OPERATION.

GENERAL NOTES (CONTINUED):

17. ALL EXPOSED CONDUIT FITTINGS AND COUPLINGS SHALL BE THREADED SCREW TYPE. THREADLESS, COMPRESSION, OR SPLIT BOLT ON COUPLINGS ARE NOT ACCEPTABLE.
18. THE CONTRACTOR SHALL MAINTAIN PROPER CLEARANCES FROM ALL OVERHEAD AND UNDERGROUND UTILITIES, AND SHALL CONTACT EACH UTILITY FOR SPECIFIC REQUIREMENTS. NEW ELECTRICAL SHALL BE ROUTED UNDER EXISTING UTILITY.
19. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERE TO. THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND PIPE LINES, CONDUITS, AND OTHER STRUCTURES BY CONTACTING OWNERS OF UNDERGROUND UTILITIES AND BY PROSPECTING IN ADVANCE OF EXCAVATION OPERATIONS.
20. THE CONTRACTOR PER THE DIRECTION OF CITY OF GRETNA SHALL USE THE EXPLORATORY ITEM TO DETERMINE THE EXACT LOCATION AND DEPTH OF EXISTING CITY/PARISH UTILITIES AND POTENTIAL CONFLICTS. ALL EXCAVATION FOR THIS ITEM SHALL BE IN THE PRESENCE OF A REPRESENTATIVE OF CITY OF GRETNA.
21. EQUIPMENT LOCATIONS MAY BE ADJUSTED ONLY WITH THE PERMISSION OF THE ENGINEER. THE CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS WHICH SHOW THE FINAL INSTALLED LOCATIONS.
22. THE CONTRACTOR IS RESPONSIBLE FOR SATISFACTORLY MAINTAINING THE IMMEDIATE WORK AREA IN A NEAT AND ORDERLY MANNER.
23. FOUNDATIONS FOR STREET LIGHT STANDARDS SHALL BE AS DETAILED IN THE DRAWINGS.
24. UNLESS OTHERWISE NOTED, ALL UNDERGROUND CABLE SHALL BE MINIMUM SIZE #10 C.U. STANDARD. INSULATION TYPE RHH/RHW-2 U.S.E. IN PVC/HDPE SCHEDULE 40 CONDUIT BURIED AT MINIMUM 24" BELOW FINISHED GRADE. FURNISH WARNING TAPE IF OPEN TRENCH INSTALLATION.
25. A COPPER WELD GROUND ROD MINIMUM 10' X 5/8" DIAMETER WILL BE REQUIRED AT EACH LIGHT STANDARD.
26. THE SERVICE EQUIPMENT SHALL BE GROUNDED AT THE FIRST DISCONNECTING MEANS FROM THE UTILITY COMPANY'S POLE TO A DRIVEN ELECTRODE.
27. THE UNDERGROUND FEEDER CONDUCTORS AND THE GROUNDING CONDUCTORS SHALL BE COPPER INSULATION TYPE RHH/RHW-2 U.S.E. AND SHALL BE OF SUFFICIENT SIZE SO THAT THE VOLTAGE DROP TO THE LAST LIGHT STANDARD WILL NOT EXCEED FIVE PERCENT (5%). ALL UNDERGROUND CONDUITS WITH CABLES SHALL BE BURIED TO A MINIMUM OF TWENTY-FOUR INCHES (24").
28. ALL UNDERGROUND CONDUCTORS SUPPLYING CURRENT FOR STREET LIGHTING SYSTEMS SHALL BE INSTALLED IN A NON-METALLIC PVC/HDPE SCHEDULE 40 CONDUIT. WHEN RUN UNDER UNDEVELOPED OR NEWLY CUT STREETS (NOT YET PAVED, BLACKTOPPED, OR GRAVELED) THEY SHALL BE RUN IN A NON-METALLIC PVC SCHEDULE 40 (OR BETTER) ENCASED IN CONCRETE AND THROUGH A FOUR INCH (4") CONDUIT UNDER SAID STREET. AN "E" SHALL BE ETCHED IN THE CURB AT ANY AND ALL ELECTRICAL CROSSINGS UNDER STREETS. ALL RACEWAYS SHALL HAVE A MINIMUM TRADE SIZE OF 2 INCHES (2") AND BE BURIED A MINIMUM OF TWENTY-FOUR INCHES (24") BELOW GRADE. WHERE THE RACEWAY RISES UP TO THE LIGHT STANDARDS, IT MUST COME ABOVE THE FOUNDATION A MINIMUM OF 4 INCHES (4"). ALL ELBOWS OR BENDS USED IN THE SYSTEM SHALL BE 2-INCH (2") MINIMUM PVC SCHEDULE 40 (OR BETTER).
29. STREET LIGHT FOUNDATIONS SHALL BE OF CONCRETE CAST IN PLACE TO BE IN ACCORDANCE WITH THE TYPICAL FOUNDATION PLAN FOR STREET LIGHT STANDARDS FOR CITY OF GRETNA.
30. ALL STREET LIGHT INSTALLATION SHALL AVOID CONFLICTS WITH HANDICAPPED ACCESSIBILITY RAMPS AND THE LOCATION OF THESE RAMPS WILL GOVERN THE EXACT LOCATION OF THE STREETLIGHTS. PRIOR TO INSTALLATION, THE CONTRACTOR WILL COORDINATE THEIR ACTIVITIES WITH THE DEPARTMENT OF ENGINEER'S FIELD INSPECTOR.
31. STREET LIGHT STANDARDS WILL BE SERVED FROM ENTERGY, INC. FEED POINTS.
32. LIMITS OF REMOVAL FOR CONCRETE PAVEMENT AND SIDEWALKS TO EXISTING JOINT OR REQUIRED SAW JOINT TO BE COORDINATED WITH CITY OF GRETNA. PAYMENT FOR REMOVALS SHALL BE PER APPLICABLE BID ITEMS. FULL DEPTH SAW CUTS TO BE INCLUDED IN THE UNIT PRICES FOR EACH REMOVAL ITEM.
33. VERIFICATION AND PROTECTION OF ALL UTILITIES AND SERVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
34. THE CONTRACTOR SHALL SUPPLY AND MAINTAIN CONSTRUCTION SIGNS AS REQUIRED BY THE CITY OF GRETNA.
35. THE CONTRACTOR SHALL CLOSE ONLY ONE LANE OF TRAFFIC AT A TIME. CONTRACTOR SHALL COORDINATE ANY LANE CLOSURES WITH THE CITY OF GRETNA 48 HOURS BEFORE EXPECTED CLOSURE PRIOR TO COMMENCING ANY WORK.
36. SHEETS E.101, E.102, ABBREVIATIONS, SCHEDULES, DETAILS, ETC., APPLY TO ALL SHEETS UNLESS INDICATED OTHERWISE.

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
03/01/19

LA One Call

CALL BEFORE YOU DIG:
Always dial 811 or 800 272-3020 first.
The call and the service are FREE.

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

DANA BROWN & Associates
DANA BROWN & ASSOCIATES, INC.
NEW ORLEANS - 504-345-2639
www.danabrownassociates.com

seal

DOWNTOWN DRAINAGE IMPROVEMENTS
740 2nd Street
Gretna, Louisiana 70053

NOTES:

- PROTECT ALL EXISTING TREES ON SITE DURING CONSTRUCTION

REVISIONS

no.	date/yr/d/m	by/w

AS BUILT
Fleschhertz Electric Co., Inc.
by
date

PROJECT NUMBER:
DBA 1603

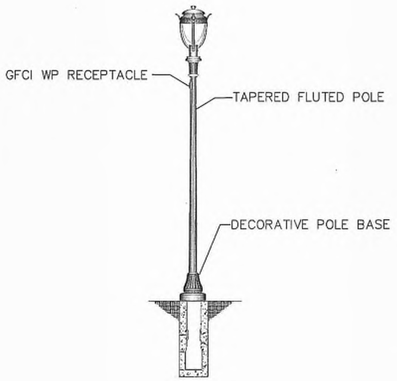
DATE:
01 MARCH 2019

ISSUE:
100% CONSTRUCTION DOCUMENTS

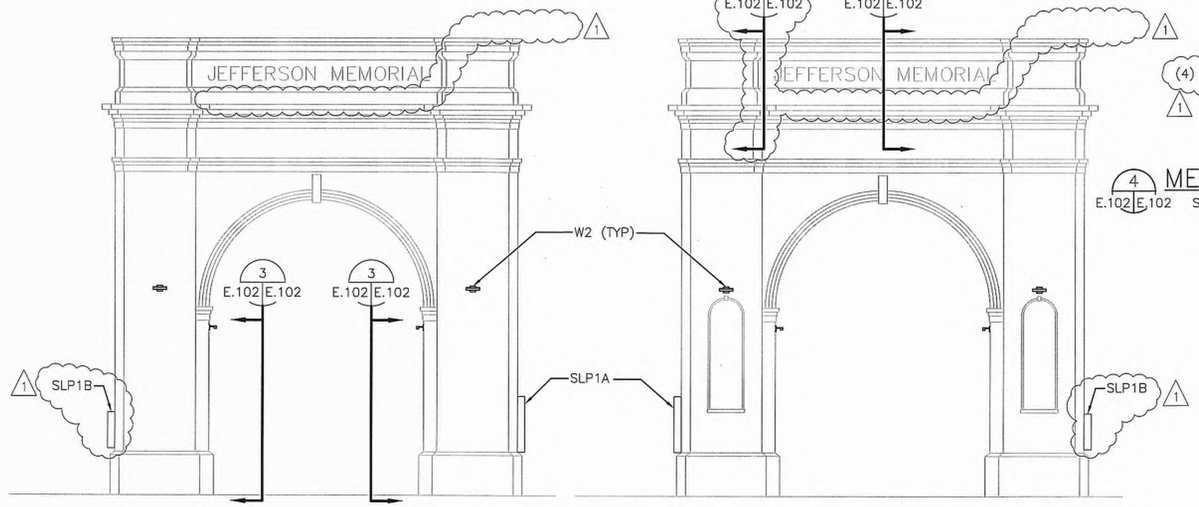
SHEET TITLE:
SCHEDULES AND NOTES

SHEET NO.
E.101

cwnpp. 20 February 2019 8:35am P:\Revit\9344-8350 HPI_LIGHTING\DESIGN\ELEC_1st-2nd\9344-8350-E.101.dwg Layout = E.101

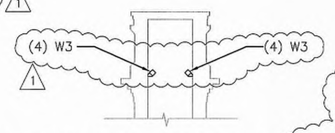


TYPE F1
N.T.S.

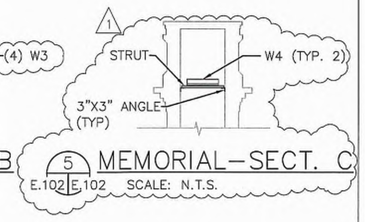


1 MEMORIAL–SOUTH FACE DETAIL
E.201 E.102 SCALE: N.T.S.

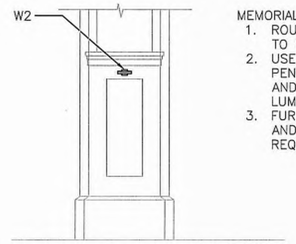
2 MEMORIAL–NORTH FACE DETAIL
E.201 E.102 SCALE: N.T.S.



4 MEMORIAL–SECT. B
E.102 E.102 SCALE: N.T.S.



5 MEMORIAL–SECT. C
E.102 E.102 SCALE: N.T.S.



3 MEMORIAL–SECTION A
E.102 E.102 SCALE: N.T.S.

MEMORIAL NOTES:
1. ROUTE ALL CONDUIT INTERNAL TO STRUCTURE.
2. USE EXISTING WALL PENETRATIONS ON NORTH AND SOUTH FACES FOR W2 LUMINAIRES WHERE POSSIBLE.
3. FURNISH NEW BACK BOXES AND JUNCTION BOXES AS REQUIRED FOR LUMINAIRES.

LUMINAIRE SCHEDULE

TAG	NOTES	DESCRIPTION	CATALOG	VOLTAGE	LAMP
B1	1 2	DECORATIVE BOLLARD TYPE V MED DISTRIBUTION POST TOP BLACK FLUTED RISER	SUN VALLEY MOZB–FL SERIES	120	LED 23W
F1	1 2 3 4,10	DECORATIVE TEARDROP TYPE IV POST TOP POLYCARBONATE LENS	SUN VALLEY LCW–APA SERIES	240	LED 45W
W1	1 2	RECESSED LED WALL LIGHT CONCRETE COVER	BEGA 33046 SERIES	120	LED 5.8W
W2	1 2 5 6,8	12" EXTERIOR LINEAR LED WALL WASH BRACKET MOUNT 70 X 70 BEAM	TROV ECOSENSE L50 SERIES	120	LED 4W/FT
W3	1 6 7	4' NARROW BODY EXTERIOR LINEAR LED, DIFFUSED LENS, INDUSTRIAL GRADE, THREADED HUBS	GE ALBEO LED ALR2 SERIES	120	LED 5000 LUMENS 4000K
W4	1 6 9	2' BODY EXTERIOR LINEAR LED, DIFFUSED LENS, INDUSTRIAL GRADE, THREADED HUBS	GE ALBEO LED ALR2 SERIES	120	LED 4000 LUMENS 4000K

1

LUMINAIRE SCHEDULE NOTES

1. UL LISTED AND APPROVED FOR WET LOCATIONS AT A MAXIMUM OF 40 DEGREES C AMBIENT TEMPERATURE.
2. LUMINARIES SHALL HAVE AN IDENTIFIED GROUNDING CONDUCTOR FROM HEAD TO POLE GROUNDING CONDUCTOR.
3. MOUNTING HEIGHT: 15'–0" ABOVE FINISHED GRADE.
4. ROUND TAPERED FLUTED ALUMINUM POLE SHAFT WITH DECORATIVE BASE. FURNISHED BY OWNER, INSTALLED BY CONTRACTOR.
5. SINGLE ARM WALL BRACKET MOUNT.
6. IP66 RATED. 1
7. INSTALLED IN INTERNAL WALL OF MEMORIAL STRUCTURE WITH 45° WALL MOUNTED BRACKET.
8. L50 E 12 04 30 90 70X70.
9. WALL MOUNT HOT–DIPPED GALVANIZED (HDG) ANGLE SUPPORTS ON EACH SIDE OF INTERNAL WALL AND MOUNT HDG STRUT BETWEEN ANGLE SUPPORTS TO INSTALL W4 LUMINAIRE ON TOP OF STRUT. INSTALL WITH 45° WALL MOUNTED BRACKET. 1
10. LCW–APA–IV–40LED–NW–PT–CP BLACK TEXTURED FINISH.

ABBREVIATIONS

A
A AMPERE(S)
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
ALUM ALUMINUM
AWG AMERICAN WIRE GAGE

C
C CONDUIT
CB CATCH BASIN
CL CENTER LINE
CU COPPER
COMM COMMUNICATION

E
EXIST EXISTING

F
FT. FOOT; FEET

G
GALV GALVANIZED

H
HPS HIGH PRESSURE SODIUM
HID HIGH INTENSITY DISCHARGE
HPL HUEY P. LONG AVENUE

J
JB JUNCTION BOX

L
LBS. POUNDS
LTG. LIGHTING
LV LOW VOLTAGE

M
MH METAL HALIDE

N
NEC NATIONAL ELECTRICAL CODE
NIC NOT IN CONTRACT
NTS NOT TO SCALE

P
P POLE
ø PHASE
PRI PRIMARY
PVC POLYVINYL CHLORIDE

R
RCPA REINFORCED CONCRETE PIPE ARCH
REC RECEPTACLE
RGS RIGID GALVANIZED STEEL

S
SEC SECONDARY
SFM SEWERAGE FORCE MAIN
SMH SEWER MAN HOLE

T
TELE TELEPHONE
TMH TELECOMMUNICATION MANHOLE
TYP TYPICAL

U
UG UNDERGROUND
U.L. UNDERWRITER'S LABORATORIES

V
V VOLTS

W
W WATTS, WIRE, WIDTH

X
XFMR TRANSFORMER

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
7/10/20

LA One Call
CALL BEFORE YOU DIG:
Always dial 811 or 800 272-3020 first.
The call and the service are FREE.

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119–5994
PHONE (504)486–5901 • FAX (504)488–1714

DANA BROWN & ASSOCIATES
DANA BROWN & ASSOCIATES, INC.
NEW ORLEANS - 504-345-2639
www.danabrownassociates.com

seal

DOWNTOWN DRAINAGE IMPROVEMENTS
740 2nd Street
Gretna, Louisiana 70053

NOTES:
- PROTECT ALL EXISTING TREES ON SITE DURING CONSTRUCTION

AS BUILT
Frischhertz Electric Co., Inc.
by
date 7/15/20

REVISIONS

No.	DESCRIPTION	DATE
1	PANEL ADD./LIGHT MOD.	01/XX/20

PROJECT NUMBER:
DBA 1603

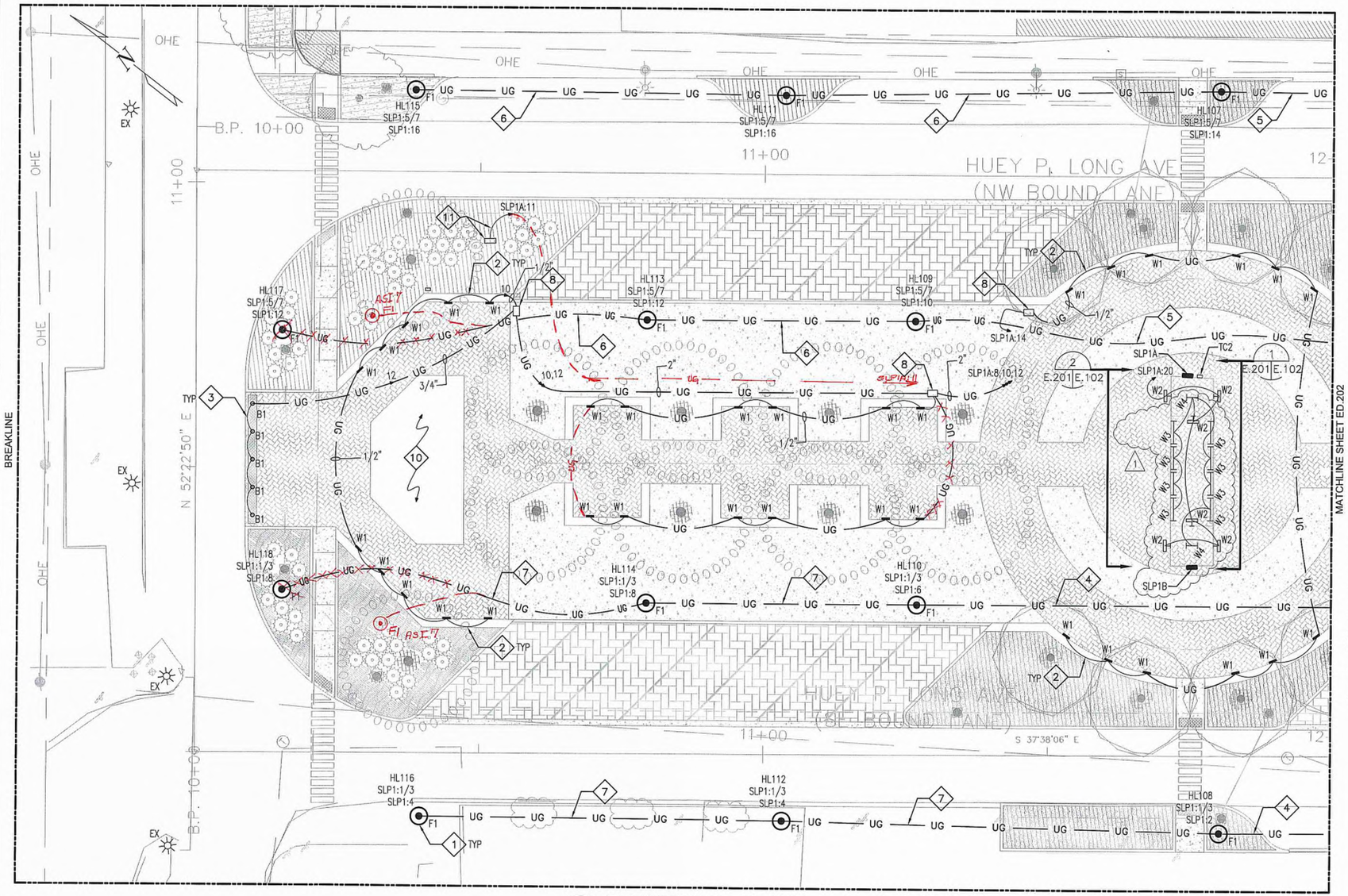
DATE:
01 MARCH 2019

ISSUE:
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
SCHEDULES AND ABBREVIATIONS

SHEET NO.
E.102

omega 10 January 2020 10:24am P:\Boxc\63449\63449-63530 HPL LIGHTING\DESIGN\ELEC_ts1-2\ed\63449-63530-E-102.dwg Layout = E.102



1 ELECTRICAL PLAN
E.201 E.201

10' 5' 0 10' 20'
1"= 10'

SHEET E.201 NOTES:

1. PROJECT INVOLVES PLACING POLE FOUNDATIONS IN CLOSE PROXIMITY TO OVERHEAD POWER AND COMMUNICATIONS LINES AND UNDERGROUND UTILITIES. CONTRACTOR SHALL EXERCISE CAUTION AND MAINTAIN PROPER UTILITY STANDARD CLEARANCES.
2. UNLESS OTHERWISE STATED, PROVIDE 1" SCHEDULE 40 PVC/HDPE CONDUIT FOR UNDERGROUND LIGHTING AND RECEPTACLE CIRCUITING.
3. CONDUIT ROUTING AND BOX LOCATIONS ARE SCHEMATIC, ROUTING MAY BE ADJUSTED TO AVOID INTERFERENCES. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF POLES.
4. ALL TRENCHING/BORING/DRILLING WITHIN EXISTING TREE CANOPY SHALL BE COORDINATED WITH AND APPROVED BY PROJECT ARBORIST PRIOR TO COMENCING ANY WORK AROUND TREES.
5. UNLESS NOTED OTHERWISE, PROVIDE #10 AWG COPPER CONDUCTORS FOR ALL LUMINAIRE CIRCUITS.
6. POLE SETBACK SHALL BE AS SHOWN ON ARCHITECTURAL DRAWINGS, MINIMUM SET BACK 2' C.L. OF POLE TO CURB.

SHEET E.201 SPECIFIC NOTES:

1. REFERENCE DETAIL 1/E.301 AND 2/E.301 TYPICAL EXCEPT WHERE NOTED OTHERWISE.
2. EMBED 1/2" CONDUIT IN WALL BETWEEN LUMINAIRES. TYPE W1 BACKBOX/HOUSING INSTALLATION MUST BE COORINATED WITH BRICK INSTALLATION (SEE SHEET LS.505). BACKBOX/HOUSING AND RACEWAY INSTALLATION WILL OCCUR IN WALL SEAT CMU CONSTRUCTION PRIOR TO BRICK INSTALLATION THEREFORE PROPER CONSTRUCTION COORDINATION IS CRITICAL. CMU BLOCK WILL HAVE TO BE CUT/NOTCHED TO ALLOW THE INSTALLATION OF THE BACKBOX/HOUSING AND RACEWAY INSTALLATION.
3. ROUTE CONDUIT UNDERGROUND BETWEEN BOLLARDS.
4. 1- 1 1/4"C, 2 #10, 4 #8, 1 #8 GND.
5. 1- 1 1/2"C, 2 #10, 4 #6, 1 #6 GND.
6. 1- 1 1/4"C, 2 #10, 2 #6, 1 #6 GND.
7. 1- 1 1/4"C, 2 #10, 2 #8, 1 #8 GND.
8. 11" X 18" QUAZITE PG STYLE PULL BOX.
9. NOT USED.
10. FOUNTAIN FEATURE BY OTHERS, REFERENCE LANDSCAPE DRAWINGS..
11. FOUNTAIN CONTROL PANEL FURNISHED AND INSTALLED BY OTHERS, LOCATION AS SHOWN ON LANDSCAPE DRAWINGS. FURNISH AND INSTALL, 1" SCHEDULE 40 PVC WITH 2 #8, 1 #8 GND. THWN CONDUCTORS, AND 20A GFCI RECEPTACLE FOR CONTROL PANEL WITHIN FOUNTAIN EQUIPMENT ENCLOSURE. COORDINATE INSTALLATION WITH FOUNTAIN EQUIPMENT INSTALLER.

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
01/10/20

LA One Call

CALL BEFORE YOU DIG:
Always dial 811 or 800 272-3020 first.
The call and the service are FREE.

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901 • FAX (504)488-1714

DANA BROWN & ASSOCIATES
DANA BROWN & ASSOCIATES, INC.
NEW ORLEANS - 504-345-2639
www.danabrownassociates.com

seal

DOWNTOWN DRAINAGE IMPROVEMENTS
740 2nd Street
Gretna, Louisiana 70053

NOTES:

- PROTECT ALL EXISTING TREES ON SITE DURING CONSTRUCTION

REVISIONS

NO.	DESCRIPTION	DATE
1	PANEL ADD./LIGHT MOD.	01/XX/20

AS BUILT
Frischhorn Electric Co., Inc.
by
date

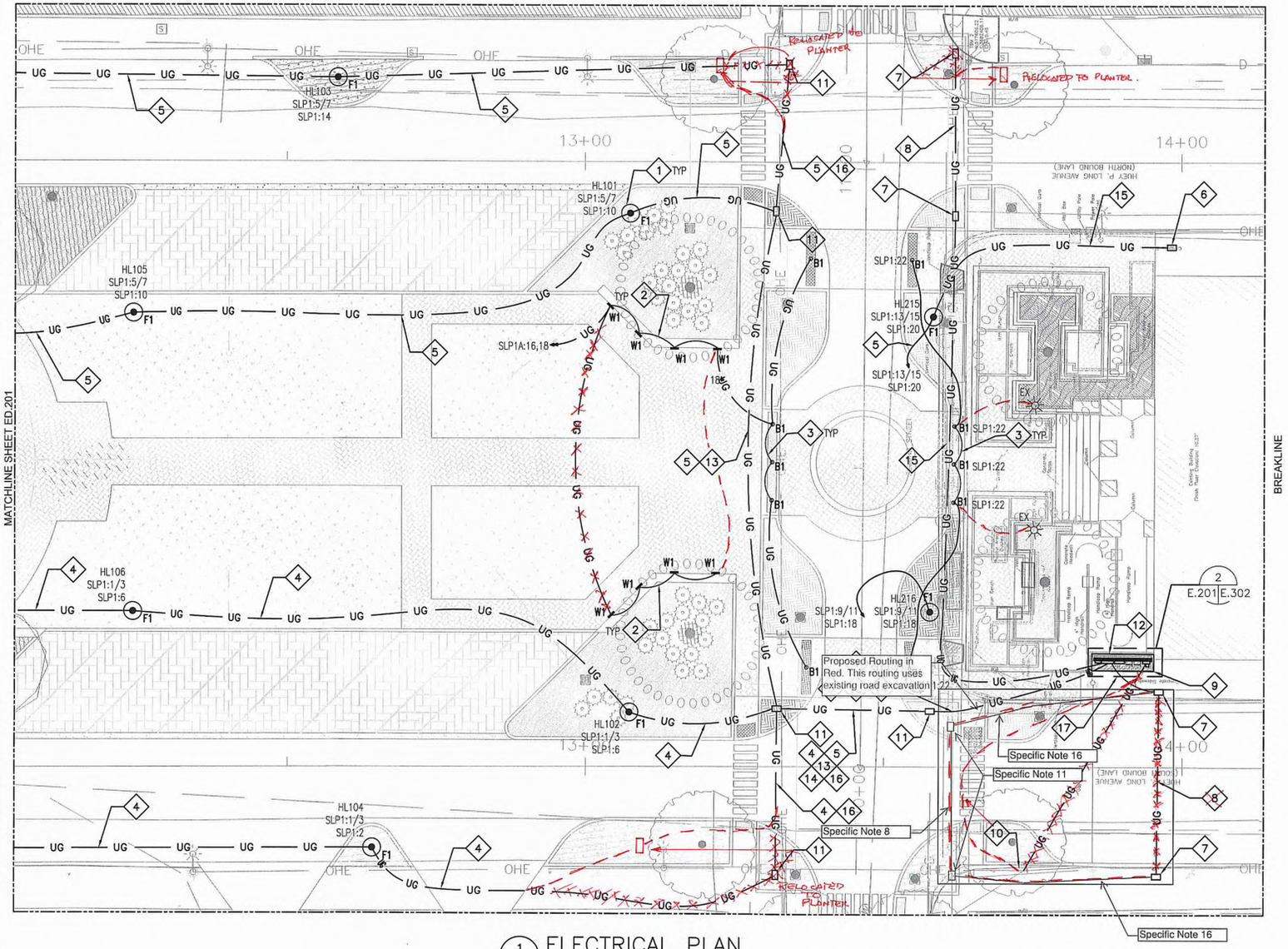
PROJECT NUMBER:
DBA 1603

DATE:
01 MARCH 2019

ISSUE:
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
ELECTRICAL PLAN

SHEET NO.
E.201



1 ELECTRICAL PLAN
E.202|E.202

10' 5' 0 10' 20'
1"= 10'

SHEET E.202 NOTES:

1. PROJECT INVOLVES PLACING POLE FOUNDATIONS IN CLOSE PROXIMITY TO OVERHEAD POWER AND COMMUNICATIONS LINES AND UNDERGROUND UTILITIES. CONTRACTOR SHALL EXERCISE CAUTION AND MAINTAIN PROPER UTILITY STANDARD CLEARANCES.
2. UNLESS OTHERWISE STATED, PROVIDE 1" SCHEDULE 40 PVC/HDPE CONDUIT FOR UNDERGROUND LIGHTING AND RECEPTACLE CIRCUITING.
3. CONDUIT ROUTING AND BOX LOCATIONS ARE SCHEMATIC, ROUTING MAY BE ADJUSTED TO AVOID INTERFERENCES. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATIONS OF POLES.
4. ALL TRENCHING/BORING/DRILLING WITHIN EXISTING TREE CANOPY SHALL BE COORDINATED WITH AND APPROVED BY PROJECT ARBORIST PRIOR TO COMENCING ANY WORK AROUND TREES.
5. UNLESS NOTED OTHERWISE, PROVIDE #10 AWG COPPER CONDUCTORS FOR ALL LUMINAIRE CIRCUITS.
6. POLE SETBACK SHALL BE AS SHOWN ON ARCHITECTURAL DRAWINGS, MINIMUM SET BACK 2' C.L. OF POLE TO CURB.

SHEET E.202 SPECIFIC NOTES:

1. REFERENCE DETAIL 1/E.301 AND 2/E.301 TYPICAL EXCEPT WHERE NOTED OTHERWISE.
2. EMBED 1/2" CONDUIT IN WALL BETWEEN LUMINAIRES. TYPE W1 BACKBOX/HOUSING INSTALLATION MUST BE COORINATED WITH BRICK INSTALLATION (SEE SHEET LS.505). BACKBOX/HOUSING AND RACEWAY INSTALLATION WILL OCCUR IN WALL SEAT CMU CONSTRUCTION PRIOR TO BRICK INSTALLATION THEREFORE PROPER CONSTRUCTION COORDINATION IS CRITICAL. CMU BLOCK WILL HAVE TO BE CUT/NOTCHED TO ALLOW THE INSTALLATION OF THE BACKBOX/HOUSING AND RACEWAY INSTALLATION.
3. ROUTE CONDUIT UNDERGROUND BETWEEN BOLLARDS.
4. 1- 1 1/4"C, 2 #10, 4 #8, 1 #8 GND.
5. 1- 1 1/2"C, 2 #10, 4 #6, 1 #6 GND.
6. QUAZITE 13" X 24" PG STYLE PULL BOX FURNISHED AND INSTALLED BY CONTRACTOR, SIMILAR TO DETAIL 3/E.301.
7. PROVIDE QUAZITE 13" X 24" PG STYLE PULL BOX AT END OF UNDER ROAD BORE. STUB INDICATED CONDUIT AND 2" SPARE CONDUIT (FURNISHED AND INSTALLED BY CONTRACTOR) INTO BOX. REFERENCE DETAIL 3/E.301.
8. 2" CONDUIT AND 2" SPARE CONDUIT BORED UNDER ROADWAY. BORE, AND CONDUIT FURNISHED AND INSTALLED BY CONTRACTOR.
9. LIGHTING CONTROL PANEL AND SERVICE PAD LOCATION. COORDINATE CONDUIT STUB-UPS WITH CITY OF GRETNA.
10. UTILITY ELECTRICAL SERVICE FEED LOCATION. 3" SCHED. 80 PVC/HDPE CONDUIT FROM POLE TO PAD LOCATION DESIGNATED IN SPECIFIC NOTE 3. COORDINATE INSTALLATION WITH ENTERGY AND CITY OF GRETNA. BORE, AND CONDUIT SHALL BE FURNISHED AND INSTALLED CONTRACTOR.
11. QUAZITE 13" X 24" PG STYLE PULL BOX AT END OF UNDER ROAD BORE FURNISHED AND INSTALLED BY CONTRACTOR PER DETAIL 3/E.301.
12. ELECTRICAL SERVICE PULL BOX SHALL BE IN ACCORDANCE WITH ENTERGY SPECIFICATIONS AND APPROVED BY ENTERGY PRIOR TO INSTALLATION.
13. 1- 1 1/4"C, 4 #6, 1 #6 GND.
14. 1- 1 1/4"C, 4 #8, 1 #8 GND.
15. 1- 1 1/2"C EMPTY WITH PULL WIRE.
16. 1- 2"C EMPTY WITH PULL WIRE.
17. 2- 1 1/2"C EMPTY PVC/HDPE WITH PULL WIRE.

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
03/01/19

LA One Call

CALL BEFORE YOU DIG:
Always dial 811 or 800 272-3020 first.
The call and the service are FREE.

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

DANA BROWN & ASSOCIATES
DANA BROWN & ASSOCIATES, INC.
NEW ORLEANS - 504-345-2639
www.danabrownassociates.com

seal

DOWNTOWN DRAINAGE IMPROVEMENTS
740 2nd Street
Gretna, Louisiana 70053

NOTES:

- PROTECT ALL EXISTING TREES ON SITE DURING CONSTRUCTION

AS BUILT
Frischhertz Electric Co., Inc.
by
date 8/15/03

REVISIONS

no.	description	date

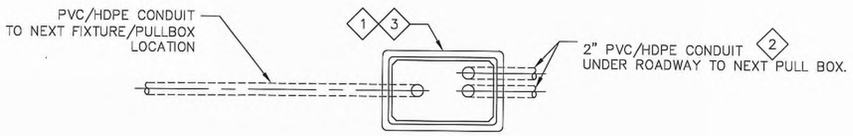
PROJECT NUMBER:
DBA 1603

DATE:
01 MARCH 2019

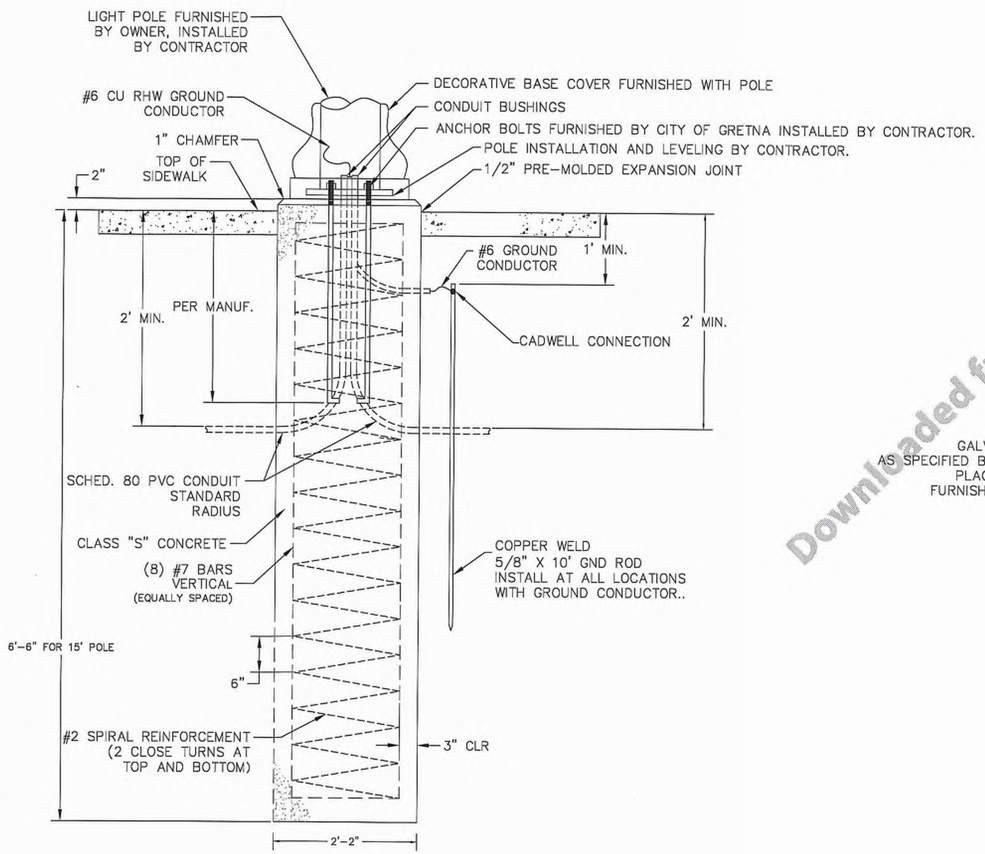
ISSUE:
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
ELECTRICAL PLAN

SHEET NO.
E.202

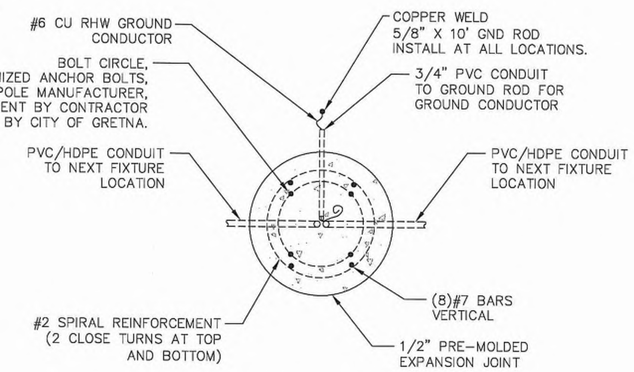


3 TYPICAL PULL BOX AT ROAD CROSSING
E.301 E.301 N.T.S.



ELEVATION VIEW

1 TYPICAL STREET LIGHT FOUNDATION
E.301 E.301 N.T.S.



PLAN VIEW

2 TYPICAL STREET LIGHT FOUNDATION
E.301 E.301 N.T.S.

SHEET E.301 NOTES:

1. FOUNDATIONS SHALL BE OF CONCRETE CAST IN PLACE. 90 DEGREE PVC SCHEDULE 80 CONDUIT RADIUS FITTINGS (QUANTITY AS SHOWN IN DETAILS) WITH BUSHING AT TOP SHALL BE PROVIDED FOR RACEWAY AND SHALL BE PLACED WITH THE RACEWAY EXTENDING FOUR INCHES (4") ABOVE THE TOP OF THE FOUNDATION, AND SHALL EXTEND SIX INCHES (6") FROM SIDES OF THE FOUNDATION, BELOW GRADE, MINIMUM TWO FEET (2') BELOW GRADE.
2. INSTALLERS SHALL ALWAYS EXCAVATE THE PULL BOX HOLE AT LEAST 6"–8" DEEPER THAN THE DEPTH OF THE ENCLOSURE TO ALLOW FOR THE PLACEMENT OF A MINIMUM 6" OF GRAVEL IN THE BOTTOM OF THE HOLE. THE GRAVEL BASE SHOULD EXTEND 6" BEYOND THE SIDEWALLS OF THE ENCLOSURE.

SHEET E.301 SPECIFIC NOTES:

1. QUAZITE 13" X 24" PG STYLE (STACKABLE) ASSEMBLY. OPEN BOTTOM W/2 MOUSEHOLES (PG1324BB18), WITH GASKET HEAVY DUTY TRAFFIC RATED COVER AND TWO BOLTS (PG1324HG00), IMPRINTED. "LIGHTING" ON TOP.
2. RACEWAY CROSSING ROADWAYS SHALL HAVE AT LEAST TWO (2) FEET OF COVER BELOW THE ROADWAY, AND TWO (2) FEET OF COVER BELOW DITCHES OR DRAINAGE STRUCTURES.
3. PROVIDE BOX ONLY WHERE SHOWN ON PLANS.

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
03/01/19

LA One Call

CALL BEFORE YOU DIG:
Always dial 811 or 800 272-3020 first.
The call and the service are FREE.

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901 • FAX (504)488-1714

DANA BROWN & Associates
DANA BROWN & ASSOCIATES, INC.
NEW ORLEANS - 504-345-2639
www.danabrownassociates.com

seal

DOWNTOWN DRAINAGE IMPROVEMENTS
740 2nd Street
Gretna, Louisiana 70053

NOTES:

- PROTECT ALL EXISTING TREES ON SITE DURING CONSTRUCTION

AS BUILT
Frischhertz Electric Co., Inc.
by
date 10/5/20

REVISIONS

No.	Description	Date

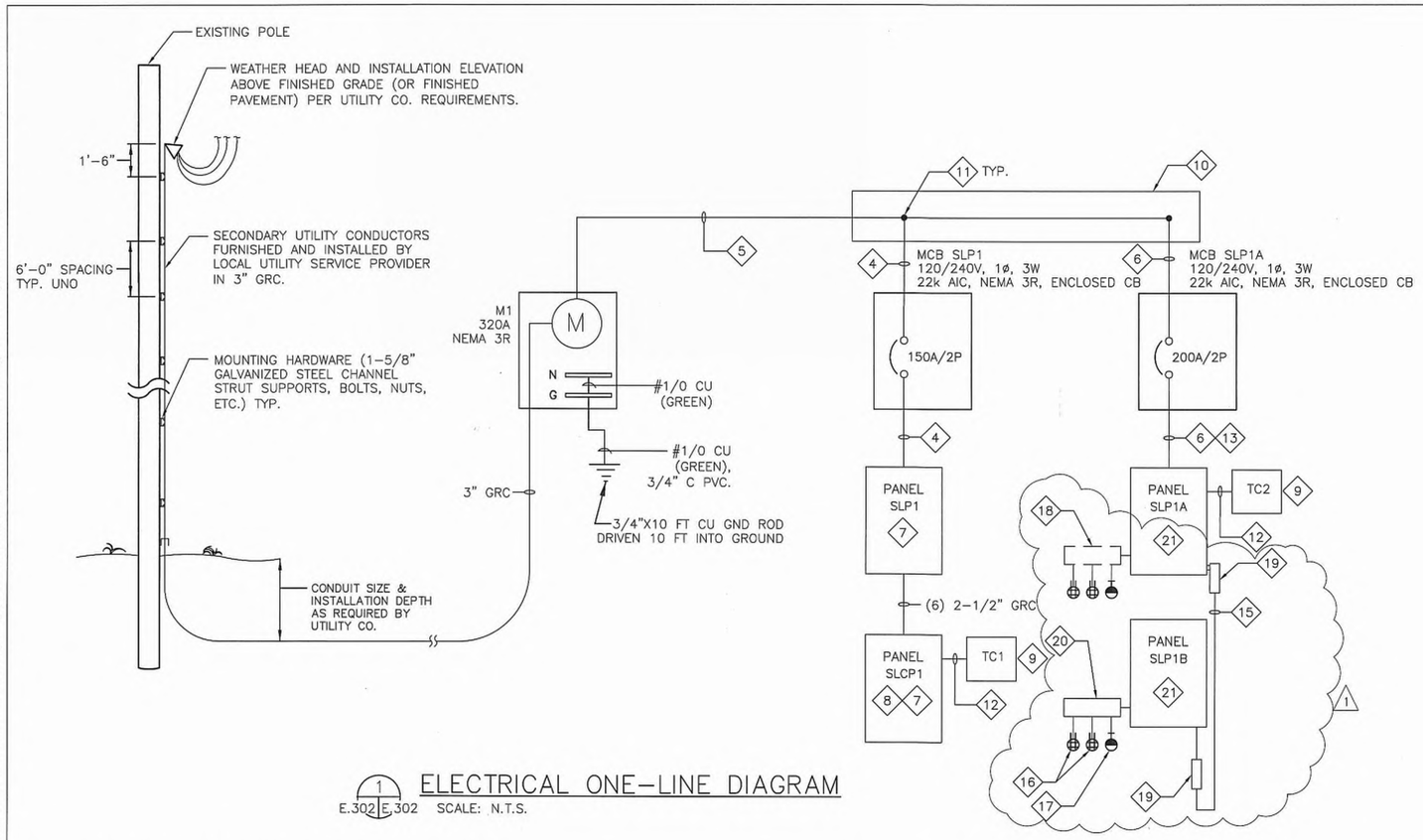
PROJECT NUMBER:
DBA 1603

DATE:
01 MARCH 2019

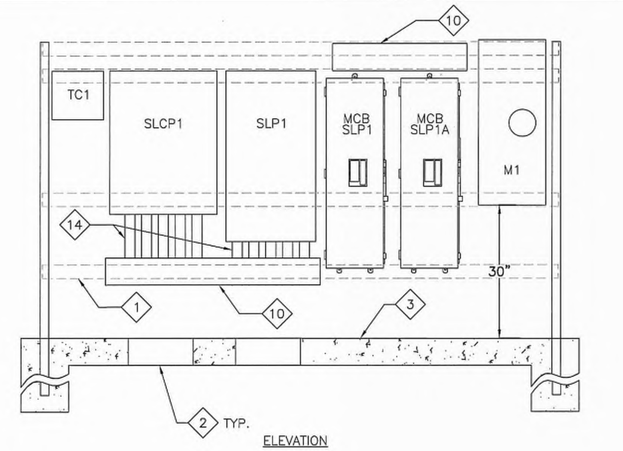
ISSUE:
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
ELECTRICAL TYPICAL DETAILS

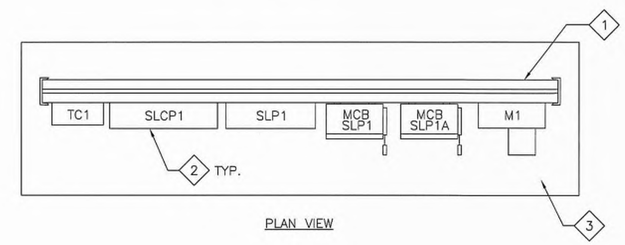
SHEET NO.
E.301



1 ELECTRICAL ONE-LINE DIAGRAM
E.302 E.302 SCALE: N.T.S.



ELEVATION



PLAN VIEW

2 PANEL MOUNTING DETAILS
E.202 E.302 SCALE: N.T.S.

SHEET E.302 SPECIFIC NOTES:

1. PAINT ALL STRUCTURAL SUPPORTS, FASTENING MATERIALS, PANELS, CANS, CONDUIT, ETC. AND ANY EXPOSED MATERIALS, COLOR AS SELECTED BY ARCHITECT. SUBMIT SAMPLE COLOR CHIPS FOR ARCHITECT AND OWNER APPROVAL. ALL EQUIPMENT (INCLUDING BUT NOT LIMITED TO ALL METER, TROUGH, PANELBOARD, CIRCUIT BREAKER, AND LIGHTING CONTROL PANEL) SHALL BE FACTORY PAINTED OR PROFESSIONALLY PAINTED WITH SUPER TGIC THERMOSET POLYESTER POWDER COAT PAINT, WITH MINIMUM OF 2 COATS PRIMER, 2 COATS RUST INHIBITOR & 2 FINAL COATS. ALL STRUCTURAL SUPPORTS, FASTENING MATERIALS, CONDUIT, ETC. SHALL BE PROFESSIONALLY PAINTED WITH SUPER TGIC THERMOSET POLYESTER POWDER COAT PAINT, WITH MINIMUM OF 2 COATS PRIMER & 2 FINAL COATS. AFTER INSTALLATION AND TESTING IS COMPLETE, ALL STRUCTURAL SUPPORTS, FASTENING MATERIALS, EQUIPMENT, CONDUIT, ETC. SHALL HAVE TOUCH-UP PAINT APPLIED TO ANY AREA WHERE THE FACTORY OR PROFESSIONAL PAINT IS DAMAGED.
2. PROVIDE BLOCK OUT FOR CONDUIT INCLUDING ROOM FOR SPARES. FILL IN BLOCK OUT WITH LIGHT WEIGHT CONCRETE AFTER ALL CONDUIT HAS BEEN INSTALLED.
3. PAD TO BE REINFORCED 3000# PSI CONCRETE MINIMUM WITH MAXIMUM 10" DEPTH BELOW PANELS AND NO REINFORCEMENT IN CONDUIT BLOCK OUT BELOW PANELS. ALL STRUCTURAL SUPPORTS SHALL BE GALVANIZED C-CHANNEL & ANGLE ONLY AND ALL FASTENING MATERIALS SHALL BE STAINLESS STEEL NUTS, BOLTS, ETC. ONLY. CONSULT LICENSED PROFESSIONAL STRUCTURAL ENGINEER IN THE STATE OF LOUISIANA FOR DESIGN OF STRUCTURAL SUPPORTS WITH COST INCLUDED IN THIS CONTRACT.
4. 3 #1/0 + #6 GROUND IN 1-1/2" RGS CONDUIT.
5. 3 #500 + #3 GROUND IN 3" RGS CONDUIT.
6. 3 #4/0 + #4 GROUND IN 2-1/2" RGS CONDUIT.
7. FURNISH AND INSTALL (2) 1" PVC AND (2) 2" PVC SPARE CONDUITS. CONDUITS SHALL RUN FROM PANEL AND STUB OUT 3 FEET FROM PANEL HORIZONTALLY AT MINIMUM DEPTH OF 36".
8. PROVIDE BASIC CONTACTOR LIGHTING CONTROL PANEL. PANEL SHALL CONSIST OF NEMA 3R ENCLOSURE WITH FACTORY ASSEMBLED INTERIOR WITH TUB, COVER, AND POWER SUPPLY. PROVIDE CONTACTOR RELAYS FOR A MINIMUM OF 24 CIRCUITS/RELAYS. SYSTEM SHALL CONSIST OF RELAY PANEL, SYSTEM ASTRONOMICAL TIME CLOCK, CONTROLLER AND GROUP SWITCHING CARD. SHALL INCLUDE ALL MEETINGS WITH USER GROUP TO DEFINE SCHEDULE REQUIREMENT, ON SITE PROGRAMMING AND 2 HOUR INSTRUCTIONS. CONTRACTOR IS RESPONSIBLE FOR ALL HARDWARE, SOFTWARE, WIRING, CONDUIT, EQUIPMENT, ETC. AS REQUIRED TO PROVIDE A COMPLETE AND FUNCTIONAL LIGHTING CONTROL PANEL SYSTEM INSTALLATION WITHOUT ANY ADDITIONAL COST TO THE OWNER. FINAL EQUIPMENT OPTIONS, ACCESSORIES, CAPACITY, ETC. SHALL BE DETERMINED DURING SHOP DRAWINGS REVIEW PROCESS AT NO ADDITIONAL COSTS. WATTSTOPPER MODEL #LP24S SERIES OR APPROVED EQUIVALENT.
9. PROVIDE SYSTEM ASTRONOMICAL TIME CLOCK, 8 CIRCUIT, NEMA 3R HEAVY DUTY ENCLOSURE WITH LOCKABLE HASP, 4000 EVENTS, 1 MINUTE TO 7 DAY TIME INTERVALS, 120-240V. INTERMATIC MODEL #ET70815CR OR APPROVED EQUIVALENT.
10. NEMA 3R HINGED COVER WIREWAY, 6" X 6" X LENGTH AS REQUIRED.
11. INSULATED IN-LINE CABLE TAP, BURNDY OR EQUIVALENT.
12. 6#12 + 1#12 GROUND IN 3/4" CONDUIT.
13. RACEWAY IS NOT SHOWN IN PLAN VIEW. RACEWAY SHALL BE RGS ABOVE GROUND, SCHED. 80 PVC/HDPE UNDERGROUND. RACEWAY SHALL BE BORED FOR CROSSING BELOW 2ND STREET. FURNISH PULL BOXES AT EACH END OF UNDER STREET BORE AND AS REQUIRED TO ACCOMMODATE PULLING OF FEEDER, SIMILAR TO DETAIL 3/E.301. BOXES SHALL BE QUAZITE 13" X 24" PG STYLE.
14. 10 - 2" RGS CONDUITS BETWEEN SLCP1, SLP1 AND WIREWAY, 5 FOR EACH PANEL.
15. 3 #1 + #6 GND., 1 1/2"C
16. QUADPLEX GFI RECEPTACLES IN TYPE FD BOXES WITH WEATHERPROOF COVERS, EACH ON SEPARATE CIRCUITS, SIMILAR TO EXISTING, REFER TO DETAIL 2, SHEET ED.101.
17. L14-30R, 30A, 125/250V TWIST-LOCK RECEPTACLE IN TYPE FD BOX WITH WEATHERPROOF COVER, HUBBELL 2710, SIMILAR TO EXISTING, REFER TO DETAIL 2, SHEET ED.101.
18. EXISTING RECEPTACLES AND WIREWAY TO REMAIN, RELOCATE AS NEEDED TO FACILITATE RECONNECTION TO NEW PANEL SLP1A. REFER TO DETAIL 2, SHEET ED.101. REWIRE AS NECESSARY.
19. RACEWAY SHALL EXIT PANEL SLP1A DIRECTLY ADJACENT TO 125A/2P BREAKER USING MOGUL LB FITTING AND UNION. OFFSET CONDUIT DOWN AND ROUTE UNDERGROUND TO PANEL SLP1B ON WEST SIDE OF ARCH. INSTALL MOGUL PULL FITTING WHERE CONDUIT EXITS GRADE AND OFFSET INTO PANEL SLP1B. UNDERGROUND PORTION SHALL BE SHCEDULE 80 PVC.
20. NEMA 3R WIREWAY, 6" X 6" X LENGTH AS REQUIRED, SIMILAR TO EXISTING, REFER TO DETAIL 3, SHEET ED.101.
21. INSTALL PANELS ON UNISTRUT STANDOFFS AS REQUIRED TO ALLOW CONDUIT TO CLEAR BASE OF ARCH AND ENTER BOTTOM OF PANELBOARDS. MOUNT PANELBOARDS SUCH THAT THE TOP CIRCUIT BREAKERS ARE NO HIGHER THAN 6'7" AFG.

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
01/10/20

LA One Call
CALL BEFORE YOU DIG:
Always dial 811 or 800 272-3020 first.
The call and the service are FREE.

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901 • FAX (504)488-1714

DANA BROWN & ASSOCIATES
DANA BROWN & ASSOCIATES, INC.
NEW ORLEANS - 504-345-2639
www.danabrownassociates.com

seal

DOWNTOWN DRAINAGE IMPROVEMENTS
740 2nd Street
Gretna, Louisiana 70053

NOTES:

- PROTECT ALL EXISTING TREES ON SITE DURING CONSTRUCTION

REVISIONS

no	description	date
1	PANEL ADD./LIGHT MOD.	01/XX/20

AS BUILT
Frischhertz Electric Co., Inc.
by
date 11/15/20

PROJECT NUMBER:
DBA 1603

DATE:
01 MARCH 2019

ISSUE:
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
ONE-LINE DIAGRAM & DETAILS

SHEET NO.
E.302

CKT 42 | NEMA 3R | SYM RMS AMPS 22000

MAIN MLO 225 | SYSTEM VOLTAGE 120/240 1ph, 3wire

SCHEDULE OF PANEL

SLP1

MOUNTING MOUNTING | LOCATION HPL @ 2ND

CIR NO.	CIRCUIT DESCRIPTION	C/B TRIP	POLE	KVA	PHASES A		PHASES B	KVA	POLE	C/B TRIP	CIRCUIT DESCRIPTION	CIR NO.
1	LIGHTING	20	2	0.80	0.76			0.36	1	20	RECEPTACLES	2
3							0.76	0.36	1	20	RECEPTACLES	4
5	LIGHTING	20	2	0.80	0.94			0.54	1	20	RECEPTACLES	6
7							0.76	0.36	1	20	RECEPTACLES	8
9	LIGHTING	20	2	0.09	0.58			0.54	1	20	RECEPTACLES	10
11							0.40	0.36	1	20	RECEPTACLES	12
13	LIGHTING	20	2	0.09	0.40			0.36	1	20	RECEPTACLES	14
15							0.40	0.36	1	20	RECEPTACLES	16
17	SPARE	20	2		0.18			0.18	1	20	RECEPTACLES	18
19							0.18	0.18	1	20	RECEPTACLES	20
21	SPARE	20	2		0.12			0.12	1	20	BOLLARD LIGHTS	22
23									1	20	TIME CLOCK ~~SPARE~~	24
25	SPARE	20	2						1	20	SPARE	26
27									1	20	SPARE	28
29	SPARE	20	2						1	20	SPARE	30
31									1	20	SPARE	32
33	SPARE	20	2						1	20	SPARE	34
35									1	20	SPARE	36
37	SPARE	20	2						1	20	SPARE	38
39									1	20	SPARE	40
41	SPARE	20	1						1	20	SPARE	42
					2.99		2.51					

TOTAL KVA CONNECTED : 5.50 KVA

CKT 30 | NEMA 3R | SYM RMS AMPS 22000

MAIN MCB 200 | SYSTEM VOLTAGE 120/240 1ph, 3wire

SCHEDULE OF PANEL

SLP1A

MOUNTING SURFACE | LOCATION 1ST

CIR NO.	CIRCUIT DESCRIPTION	C/B TRIP	POLE	KVA	PHASES A		PHASES B	KVA	POLE	C/B TRIP	CIRCUIT DESCRIPTION	CIR NO.
	1 POWER SUPPLY										2 CONTROLLER	
1	3	N/A	1						1	N/A	4	2
3	5 WALL LIGHTS NORTH	N/A	1						1	N/A	6	4
5	7 WALL LIGHTS SEATING	N/A	1						1	N/A	8 SPARE	6
7	9 BOLLARD LIGHTS NORTH	30	2	1.80			0.96	0.06	1	20	10 OUTLETS	8*
9	11 WALL LIGHTS CENTER				0.95			0.05	1	20	12 OUTLETS	10*
11	13 WALL LIGHTS SOUTH	20	1	1.80			1.92	0.12	1	20	14 OUTLETS	12*
13	15 BOLLARD LIGHTS SOUTH	20	1	0.72	0.78			0.06	1	20	16 OUTLETS	14*
15	17 MONUMENT LIGHTS	20	1				0.04	0.04	1	20	18 TWISTLOCK	16*
17	19 TIME CLOCK POWER	20	1		0.12			0.12	1	20	20 FOUNTAIN	18*
19	21 SPARE	20	1				0.17	0.17	1	20	22 SPARE	20*
21	23 SPARE	20	1						1	20	24 SPARE	22
23	25 SPACE	100	2						1	20	26 SPARE	24
25	27 SPACE								1	20	28 SLP1B	26
27	29		1				1.26	2.52	2	125	30	28
29	31		1		1.26						32	30
	33										34	
	35										36	
	37										38	
	39										40	
	41										42	
	43										44	
	45										46	
	47										48	
	49										50	
	51										52	
	53										54	
					3.10		4.34					

TOTAL KVA CONNECTED : 7.44 KVA

1 PANEL SCHEDULES
E.401 E.401 SCALE: N.T.S.

SHEET E.401 SPECIFIC NOTES:

1. ASTERISK (*) INDICATES BOLT–ON REMOTELY OPERATED ECB–G3 SERIES 14,000 AIR CIRCUIT BREAKER FOR POWER LINK LIGHTING CONTROL PANELS.

SHEET E.401 SPECIFIC NOTES:

1 FURNISHED WITH 18 CIRCUIT CONTROL BUS FOR POWERLINK BREAKERS.

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
01/10/20

LA One Call

CALL BEFORE YOU DIG:
Always dial 811 or 800 272-3020 first.
The call and the service are FREE.

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119–5994
PHONE (504)486–5901•FAX (504)488–1714

DANA BROWN & ASSOCIATES
DANA BROWN & ASSOCIATES, INC.
NEW ORLEANS - 504-345-2639
www.danabrownassociates.com

seal

DOWNTOWN DRAINAGE IMPROVEMENTS
740 2nd Street
Gretna, Louisiana 70053

NOTES:

- PROTECT ALL EXISTING TREES ON SITE DURING CONSTRUCTION

REVISIONS

no	description	date
1	PANEL ADD./LIGHT MOD.	01/XX/20

AS BUILT
Frischhertz Electric Co., Inc.
by
date 1-8-20

PROJECT NUMBER:
DBA 1603

DATE:
01 MARCH 2019

ISSUE:
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
PANEL SCHEDULES

SHEET NO.
E.401

ongo 10 January 2020 10:27am P:\Boox\8344\8344-8300-HPL LIGHTING\DESIGN\ELEC_16-2\ed\8344-8300-E.401-401A.dwg Layout = E.401

CKT 30 NEMA 3R

MAIN MLO 125

SYSTEM VOLTAGE 120/240 1ph, 3wire

SCHEDULE OF PANEL

SLP1B

SYM RMS AMPS 22000

MOUNTING SURFACE

LOCATION 1ST

CIR NO.	CIRCUIT DESCRIPTION	C/B TRIP	POLE	KVA	PHASES A	PHASES B	KVA	POLE	C/B TRIP	CIRCUIT DESCRIPTION	CIR NO.
	1 TWISTLOCK	30	2					1	20	2 SPARE	
1	3	~~20~~	~~1~~	~~0.36~~	1.26		1.80	~~2~~	~~30~~	4	2
3	5 OUTLETS	20	1	0.36		1.26		1	20	6	4
5	7 OUTLETS	20	1					1	20	8	6
7	9 OUTLETS	20	2					2	20	10	8
9	11 OUTLETS									12	10
11	13 SPARE	20	1					1	20	14	12
13	15	20	1					1	20	16	14
15	17 SPACE	20	1					1	20	18	16
17	19 SPACE	20	1					1	20	20	18
19	21 SPACE	20	1					1	20	22	20
21	23	20	1					1	20	24	22
23	25	20	1					1	20	26	24
25	27		1					1		28	26
27	29		1					1		30	28
29	31		1					1		32	30
	33									34	
	35									36	
	37									38	
	39									40	
	41									42	
	43									44	
	45									46	
	47									48	
	49									50	
	51									52	
	53									54	
					1.26	1.26					

TOTAL KVA CONNECTED : 2.52 KVA

1

1 PANEL SCHEDULES
E.401 E.401 SCALE: N.T.S.

AS BUILT
Frischhertz Electric Co., Inc.
by
date 7/15/20

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
01/10/20

LA One Call

CALL BEFORE YOU DIG:
Always dial 811 or 800 272-3020 first.
The call and the service are FREE.

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901•FAX (504)488-1714

DANA BROWN & Associates
DANA BROWN & ASSOCIATES, INC.
NEW ORLEANS - 504-345-2639
www.danabrownassociates.com

seal

DOWNTOWN DRAINAGE IMPROVEMENTS
740 2nd Street
Gretna, Louisiana 70053

NOTES:

- PROTECT ALL EXISTING TREES ON SITE DURING CONSTRUCTION

REVISIONS

no	description	date
1	PANEL ADD./LIGHT MOD.	01/XX/20

PROJECT NUMBER: DBA 1603

DATE: 01 MARCH 2019

ISSUE: 100% CONSTRUCTION DOCUMENTS

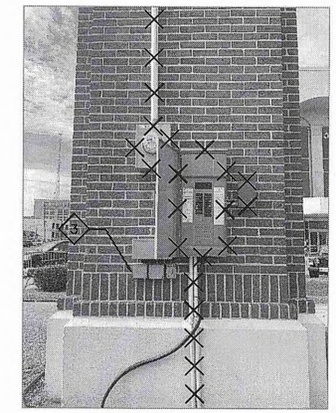
SHEET TITLE: PANEL SCHEDULES

SHEET NO. E.401A 1

cmgb 10 January 2020 10:27am P:\docs\2534\2534-4330 HPL LIGHTING\DSB\ONELEC_1&2-\d\5344-E350-E-401-401A.dwg Layout = E.401A

1 ED.101 ED.101 ELECTRICAL DEMOLITION PLAN

10' 5' 0 10' 20'
1"= 10'



2 ED.101 ED.101 METER DEMOLITION

SHEET ED.101 SPECIFIC NOTES:

1. CONTRACTOR TO COORDINATE THE REMOVAL OF LUMINAIRES FACING MEMORIAL PARK WITH ENTERGY. LUMINAIRES NOT FACING MEMORIAL PARK ARE TO REMAIN.
2. EXISTING LIGHTING TO BE CAREFULLY REMOVED AND TURNED OVER TO OWNER. REMOVE CONDUCTORS AND RACEWAY BACK TO SOURCE.
3. RECEPTACLES TO REMAIN, RECONNECT TO NEW PANELBOARD.

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
03/01/19

LA One Call

CALL BEFORE YOU DIG:
Always dial 811 or 800 272-3020 first.
The call and the service are FREE.

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901 • FAX (504)488-1714

DANA BROWN & Associates
DANA BROWN & ASSOCIATES, INC.
NEW ORLEANS - 504-345-2639
www.danabrownassociates.com

seal

DOWNTOWN DRAINAGE IMPROVEMENTS
740 2nd Street
Gretna, Louisiana 70053

NOTES:

- PROTECT ALL EXISTING TREES ON SITE DURING CONSTRUCTION

AS BUILT
Friechbertz Electric Co., Inc.
by
date 8/30/00

REVISIONS

no	description	date

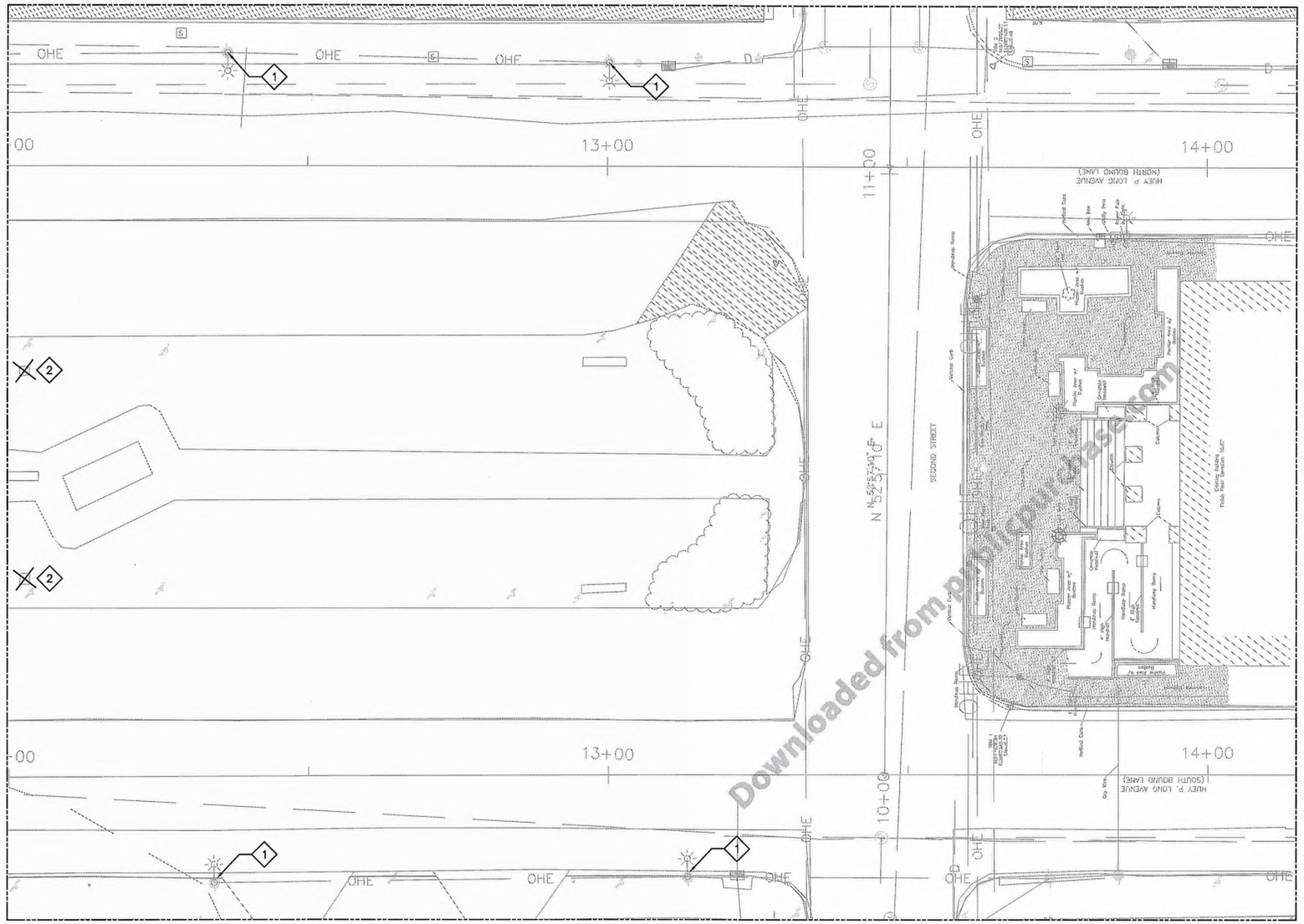
PROJECT NUMBER:
DBA 1603

DATE:
01 MARCH 2019

ISSUE:
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
ELECTRICAL DEMOLITION PLAN

SHEET NO.
ED.101



1 ED.102 | ED.102 ELECTRICAL DEMOLITION PLAN

10' 5' 0 10' 20'

1"= 10'

SHEET ED.102 SPECIFIC NOTES:

1. CONTRACTOR TO COORDINATE THE REMOVAL OF LUMINAIRES FACING MEMORIAL PARK WITH ENTERGY. LUMINAIRES NOT FACING MEMORIAL PARK ARE TO REMAIN.
2. EXISTING LIGHTING TO BE CAREFULLY REMOVED AND TURNED OVER TO OWNER. REMOVE CONDUCTORS AND RACEWAY BACK TO SOURCE.

STATE OF LOUISIANA
PERRY P. HOGAN
REG. NO. 31042
REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL ENGINEERING
03/01/19

LA One Call

CALL BEFORE YOU DIG:
Always dial 811 or 800 272-3020 first.
The call and the service are FREE.

BKI BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4176 CANAL STREET, NEW ORLEANS, LA 70119-5994
PHONE (504)486-5901 • FAX (504)488-1714

DANA BROWN & Associates
DANA BROWN & ASSOCIATES, INC.
NEW ORLEANS - 504-345-2639
www.danabrownassociates.com

seal

DOWNTOWN DRAINAGE IMPROVEMENTS

740 2nd Street
Gretna, Louisiana 70053

NOTES:

- PROTECT ALL EXISTING TREES ON SITE DURING CONSTRUCTION

REVISIONS

AS BUILT
Friaschierz Electric Co., Inc.
by
date

PROJECT NUMBER:
DBA 1603

DATE:
01 MARCH 2019

ISSUE:
100% CONSTRUCTION DOCUMENTS

SHEET TITLE:
ELECTRICAL DEMOLITION PLAN

SHEET NO.
ED.102