

CONTRACT DRAWINGS FOR NEW RIVER CHANNEL IMPROVEMENTS EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1 ASCENSION PARISH, LOUISIANA PARISH PROJECT No. EAD 15-004 HDCA PROJECT NO. 2017-14



H. Davis Cole & Associates, LLC
Consulting Engineers

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PROJECT AREA
SCALE: N.T.S.

EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD
GONZALES, LA 70737

APPROXIMATE PROJECT SITE GPS COORDINATES
BEGINNING OF PROJECT: 30° 13' 53.59" N, 90° 56' 50.99" W
END OF PROJECT: 30° 14' 12.91" N, 90° 54' 31.40" W

PREPARED FOR



EAST ASCENSION CONSOLIDATED
GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD
GONZALES, LA 70737

PARISH PRESIDENT
KENNY MATASSA

CHIEF ENGINEER-ASCENSION PARISH DPW
JOEY TUREAU, P.E.

CHIEF ENGINEER-CITY OF GONZALES DPW
JACKIE BAUMANN, P.E.

PARISH COUNCIL

- | | |
|------------------------|---------------------------|
| OLIVER JOSEPH | DISTRICT 1, VICE-CHAIRMAN |
| BILL DAWSON | DISTRICT 2, CHAIRMAN |
| TRAVIS TURNER | DISTRICT 3 |
| DANIEL "DOC" SATTERLEE | DISTRICT 4 |
| DEMPSEY LAMBERT | DISTRICT 5 |
| RANDY CLOUTRE | DISTRICT 6 |
| AARON LAWLER | DISTRICT 7 |
| TERI CASSO | DISTRICT 8 |
| TODD LAMBERT | DISTRICT 9 |
| JOHN CAGNOLATTI | DISTRICT 10 |
| BENNY JOHNSON | DISTRICT 11 |

PREPARED BY AND RECOMMENDED FOR APPROVAL BY:
H. DAVIS COLE & ASSOCIATES, LLC

DAVID A. MARTIN, P.E.	37832	DATE
PROJECT MANAGER	LICENSE No.	

HOWARD H. DAVIS COLE, P.E. License No. 30219 REGISTERED PROFESSIONAL ENGINEER MANAGING MEMBER CIVIL ENGINEERING	6/4/19	DATE
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APPROVED BY:
ASCENSION PARISH GOVERNMENT

JOEY TUREAU, P.E. CHIEF ENGINEER	DATE
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LIST OF DRAWINGS

COVER SHEET

CO-1 COVER SHEET

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 1-C13 PLAN & PROFILE
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 LD-02 STANDARD TREE PROTECTION DETAILS

MECHANICAL

- NOT USED

STRUCTURAL

- NOT USED

ELECTRICAL

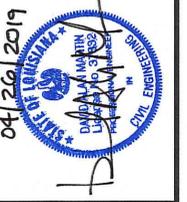
- NOT USED

SUPPLEMENTAL

- SURVEY PREPARED BY BRYANT HAMMETT & ASSOCIATES, LLC

**PROJECT AREA INDEX
 (FOR SHEET IDENTIFICATION)**

1 - NEW RIVER CANAL
 2 - GRAND GOUDINE CANAL



SUBMITTED BY:
 DANIEL FORDE
 PROJECT MANAGER
 LICENSE NO. 27832

SUBMITTED BY:
 DANIEL MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 37832



MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/2018	ARF	DAM

REVISION RECORD

DESIGNED BY:	DAM/ARF
DRAWN BY:	ARF/RMM
CHECKED BY:	DAM

DATE: APRIL, 2019
 DETAILED BY: ARF/RMM
 HDC PROJECT NO: 2017-14

NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 LIST OF DRAWINGS

SHEET ID
G1

SHEET SET
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GENERAL

- 1) THESE NOTES AND SPECIFICATIONS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT UNLESS THERE ARE SPECIFIC INDICATIONS OTHERWISE. NOTES AND SPECIFICATIONS ARE CONTINUED THROUGHOUT THE PLANS.
2) THE CONTRACTOR SHALL NOTIFY THE OWNER/ENGINEER CONTACTS, AND UTILITY/OTHER CONTACTS IN THE PROJECT AREA LISTED ON THIS SHEET OF CONSTRUCTION A MINIMUM OF ONE WEEK PRIOR TO THE BEGINNING OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT THE CONCLUSION OF CONSTRUCTION TO ALLOW FOR INSPECTION OF THE PROJECT.
3) IN THE EVENT OF DISCREPANCIES, CONFLICTS, OR OMISSIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OBTAIN WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH AFFECTED WORK.
4) THE CONTRACTOR SHALL HAVE THE COMPLETE AND SOLE RESPONSIBILITY FOR THE JOB SITE INCLUDING THE SAFETY OF PERSONS, PROPERTY, AND ADJACENT IMPROVEMENTS. ANY INSPECTION BY THE ENGINEER WILL BE SOLELY TO DETERMINE COMPLIANCE WITH THE PLANS AND SPECIFICATIONS AND WILL NOT INCLUDE ANY REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES.
5) THESE DRAWINGS ARE SCALED FOR PRODUCTION ON 22" X 34" MEDIA (ANSI - D SHEET SIZE). PRINTS ON OTHER SIZED MEDIA SHALL BE SCALED ACCORDINGLY.
6) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL TEMPORARY UTILITIES HE DEEMS NECESSARY FOR THE PROPER EXECUTION OF THE WORK IN THE MOST EFFICIENT MANNER PRACTICAL. THE COST OF PROVISION OF THESE TEMPORARY UTILITIES SHALL BE BORNE BY THE CONTRACTOR AND SHALL BE INCLUDED IN THE PRICE OF THE WORK.
7) TEMPORARY UTILITIES SHALL BE OF NEW OR USED MATERIALS AND EQUIPMENT, WHICH ARE IN SUBSTANTIALLY UNDAMAGED CONDITION AND WITHOUT SIGNIFICANT DETERIORATION AND WHICH ARE RECOGNIZED IN THE CONSTRUCTION INDUSTRY, BY COMPLIANCE WITH APPROPRIATE STANDARDS, AS BEING SUITABLE FOR INTENDED USE IN EACH CASE. WHERE A PORTION OF TEMPORARY UTILITY IS PROVIDED BY UTILITY COMPANY, THE CONTRACTOR SHALL PROVIDE THE REMAINING PORTION WITH MATCHING AND COMPATIBLE MATERIALS AND EQUIPMENT AND SHALL COMPLY WITH REQUIREMENTS OF THE SERVING UTILITY COMPANY(IES).
8) POWER: THE CONTRACTOR SHALL PROVIDE POWER REQUIRED FOR ITS OPERATIONS UNDER THE CONTRACT, AND SHALL PROVIDE AND MAINTAIN ALL TEMPORARY POWER LINES REQUIRED TO PERFORM THE WORK IN A SAFE AND SATISFACTORY MANNER.
9) TEMPORARY POWER DISTRIBUTION: THE CONTRACTOR SHALL PROVIDE A WEATHERPROOF, GROUNDED, TEMPORARY POWER DISTRIBUTION SYSTEM SUFFICIENT FOR PERFORMANCE OF ENTIRE WORK OF PROJECT, INCLUDING TEMPORARY ELECTRICAL HEATING WHERE REQUIRED, OPERATION OF TEST EQUIPMENT AND TEST OPERATION OF EQUIPMENT AND SYSTEMS WHICH CANNOT BE DELAYED UNTIL PERMANENT POWER CONNECTIONS ARE OPERABLE, TEMPORARY OPERATION OF OTHER TEMPORARY FACILITIES, INCLUDING PERMANENT EQUIPMENT AND SYSTEMS WHICH MUST BE PLACED IN OPERATION PRIOR TO USE OF PERMANENT POWER CONNECTIONS, AND POWER FOR TEMPORARY OPERATION OF EXISTING FACILITIES (IF ANY) AT THE SITE DURING CHANGE-OVER TO NEW PERMANENT POWER SYSTEM. PROVIDE CIRCUITS OF ADEQUATE SIZE AND PROPER POWER CHARACTERISTICS FOR EACH USE; RUN CIRCUIT WIRING GENERALLY OVERHEAD, AND RISE VERTICALLY IN LOCATIONS WHERE IT WILL BE LEAST EXPOSED TO POSSIBLE DAMAGE FROM CONSTRUCTION OPERATIONS AND WILL RESULT IN MINIMAL INTERFERENCE WITH PERFORMANCE OF THE WORK; PROVIDE RIGID STEEL CONDUIT OR EQUIVALENT RACEWAYS FOR WIRING WHICH MUST BE EXPOSED ON GRADE, FLOORS, DECKS, OR OTHER EXPOSURES TO DAMAGE OR ABUSE. WIRING FOR TEMPORARY ELECTRIC LIGHT AND POWER SHALL BE PROPERLY INSTALLED AND MAINTAINED AND SHALL BE SECURELY FASTENED IN PLACE. ELECTRICAL FACILITIES SHALL CONFORM TO THE REQUIREMENTS OF SUBPART K OF THE OSHA SAFETY AND HEALTH STANDARDS FOR CONSTRUCTION.
10) CONSTRUCTION LIGHTING: WORK CONDUCTED AT NIGHT OR UNDER CONDITIONS OF DEFICIENT DAYLIGHT SHALL BE SUITABLY LIGHTED TO INSURE PROPER WORK AND TO AFFORD ADEQUATE FACILITIES FOR INSPECTION AND SAFE WORKING CONDITIONS.
11) TEMPORARY LIGHTING: THE CONTRACTOR SHALL PROVIDE A GENERAL, WEATHERPROOF, GROUNDED TEMPORARY LIGHTING SYSTEM IN EVERY AREA OF CONSTRUCTION WORK, AS SOON AS IS PRACTICAL TO ENSURE SAFE WORK AND TRAFFIC CONDITIONS. RUN CIRCUIT WIRING GENERALLY OVERHEAD, AND RISE VERTICALLY IN LOCATIONS WHERE IT WILL BE LEAST EXPOSED TO POSSIBLE DAMAGE FROM CONSTRUCTION OPERATIONS ON GRADE, FLOORS, DECKS, OR OTHER AREAS OF POSSIBLE DAMAGE OR ABUSE.
12) THE CONTRACTOR SHALL PROVIDE AN ADEQUATE SUPPLY OF WATER OF A QUALITY SUITABLE FOR ALL DOMESTIC AND CONSTRUCTION PURPOSES. THE CONTRACTOR SHALL NOT MAKE CONNECTION TO OR DRAW WATER FROM ANY FIRE HYDRANT OR PIPELINE WITHOUT FIRST OBTAINING PERMISSION OF THE AUTHORITY HAVING JURISDICTION OVER THE USE OF SAID FIRE HYDRANT OR PIPELINE AND FROM THE AGENCY OWNING THE AFFECTED WATER SYSTEM. FOR EACH SUCH CONNECTION MADE, THE CONTRACTOR SHALL FIRST ATTACH TO THE FIRE HYDRANT OR PIPELINE A VALVE AND A METER, IF REQUIRED BY THE SAID AUTHORITY, OF A SIZE AND TYPE ACCEPTABLE TO SAID AUTHORITY AND AGENCY. THE CONTRACTOR SHALL PAY ALL PERMIT AND WATER CHARGES.

- 13) THE CONTRACTOR SHALL MAKE ITS OWN INVESTIGATION OF THE CONDITION OF AVAILABLE PUBLIC AND PRIVATE ROADS AND OF CLEARANCES, RESTRICTIONS, BRIDGE LOAD LIMITS, AND OTHER LIMITATIONS AFFECTING TRANSPORTATION AND INGRESS AND EGRESS TO THE SITE OF THE WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONSTRUCT AND MAINTAIN ANY HAUL ROADS REQUIRED FOR ITS CONSTRUCTION OPERATIONS.
14) WHEREVER NECESSARY, TO MAINTAIN VEHICULAR CROSSINGS, THE CONTRACTOR SHALL PROVIDE SUITABLE TEMPORARY BRIDGES OR STEEL PLATES OVER UNFILLED EXCAVATIONS, EXCEPT IN SUCH CASES AS THE CONTRACTOR SHALL SECURE THE WRITTEN CONSENT OF THE RESPONSIBLE INDIVIDUALS OR AUTHORITIES TO OMIT SUCH TEMPORARY BRIDGES OR STEEL PLATES, WHICH WRITTEN CONSENT SHALL BE DELIVERED TO THE ENGINEER PRIOR TO EXCAVATION. ALL SUCH BRIDGES OR STEEL PLATES SHALL BE MAINTAINED IN SERVICE UNTIL ACCESS IS PROVIDED ACROSS THE BACKFILLED EXCAVATION. TEMPORARY BRIDGES OR STEEL PLATES FOR STREET AND HIGHWAY CROSSING SHALL CONFORM TO THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION IN EACH CASE, AND THE CONTRACTOR SHALL ADOPT DESIGNS FURNISHED BY SAID AUTHORITY FOR SUCH BRIDGES OR STEEL PLATES, OR SHALL SUBMIT DESIGNS TO SAID AUTHORITY FOR APPROVAL, AS MAY BE REQUIRED.
15) THE CONTRACTOR SHALL MAKE ITS OWN ARRANGEMENTS FOR ANY NECESSARY OFF-SITE STORAGE OR SHOP AREAS NECESSARY FOR THE PROPER EXECUTION OF THE WORK.
16) THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND IMPROVEMENTS NOT DESIGNATED FOR REMOVAL AND SHALL RESTORE DAMAGED OR TEMPORARILY RELOCATED UTILITIES AND IMPROVEMENTS TO A CONDITION EQUAL TO OR BETTER THAN PRIOR TO SUCH DAMAGE OR TEMPORARY RELOCATION.
17) THE CONTRACTOR'S OPERATIONS ADJACENT TO PROPERTIES OF RAILWAY AND UTILITY COMPANIES OR ADJACENT TO OTHER PROPERTY, DAMAGE TO WHICH MIGHT RESULT IN CONSIDERABLE EXPENSE, LOSS OR INCONVENIENCE, SHALL NOT COMMENCE UNTIL AFTER ALL ARRANGEMENTS NECESSARY FOR THE PROTECTION THEREOF HAVE BEEN MADE.
18) THE CONTRACTOR SHALL COOPERATE WITH OWNERS OF UTILITY LINES IN THEIR REMOVAL AND REARRANGEMENT, IN ORDER THAT THESE OPERATIONS MAY PROGRESS IN A REASONABLE MANNER, THAT DUPLICATION OF REARRANGEMENT WORK MAY BE MINIMIZED AND THAT SERVICES RENDERED BY THOSE PARTIES WILL NOT BE UNNECESSARILY INTERRUPTED.
19) IN THE EVENT OF INTERRUPTION OF UTILITY SERVICES DUE TO ACCIDENTAL BREAKAGE OR BEING EXPOSED OR UNSUPPORTED, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE PROPER AUTHORITY AND SHALL COOPERATE WITH SUCH AUTHORITY IN RESTORATION OF SERVICE. IF UTILITY SERVICE IS INTERRUPTED, CONTINUOUS COOPERATION WILL BE REQUIRED UNTIL SERVICE IS RESTORED. NO WORK SHALL BE UNDERTAKEN AROUND FIRE HYDRANTS UNTIL PROVISIONS FOR CONTINUED SERVICE HAVE BEEN APPROVED BY THE LOCAL FIRE AUTHORITY.
20) THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN AN EFFECTIVE QUALITY CONTROL PROCESS. THE QUALITY CONTROL PROCESS SHALL CONSIST OF PLANS, PROCEDURES, AND ORGANIZATION NECESSARY TO PROVIDE MATERIALS, EQUIPMENT, WORKMANSHIP, FABRICATION, CONSTRUCTION AND OPERATIONS WHICH COMPLY WITH THE CONTRACT REQUIREMENTS. THE PROCESS SHALL COVER CONSTRUCTION OPERATIONS BOTH ONSITE AND OFFSITE, AND SHALL BE KEYED TO THE PROPOSED CONSTRUCTION SEQUENCE.
21) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE SITE, AND ALL WORK, MATERIALS, EQUIPMENT AND EXISTING FACILITIES THEREON, AGAINST THEFT, VANDALS, AND OTHER UNAUTHORIZED PERSONS.
22) NO CLAIM SHALL BE MADE AGAINST OWNER BY REASON OF ANY ACT OF AN EMPLOYEE OR TRESPASSER, AND CONTRACTOR SHALL MAKE GOOD ALL DAMAGE TO OWNER'S PROPERTY RESULTING FROM HIS FAILURE TO PROVIDE SECURITY MEASURES AS SPECIFIED.
23) SECURITY MEASURES SHALL BE AT LEAST EQUAL TO THOSE USUALLY PROVIDED TO PROTECT THE EXISTING FACILITIES DURING NORMAL OPERATION, BUT SHALL ALSO INCLUDE SUCH ADDITIONAL SECURITY FENCING, BARRICADES, LIGHTING, WATCHMAN SERVICES AND OTHER MEASURES AS REQUIRED TO PROTECT THE SITE.
24) THE CONTRACTOR SHALL PROMPTLY REMOVE FROM THE VICINITY OF THE COMPLETED WORK, ALL RUBBISH, UNUSED MATERIALS, CONSTRUCTION EQUIPMENT, AND TEMPORARY STRUCTURES AND FACILITIES USED DURING CONSTRUCTION. FINAL ACCEPTANCE OF THE WORK BY THE OWNER WILL BE WITHHELD UNTIL THE CONTRACTOR HAS SATISFACTORILY PERFORMED THE FINAL CLEANUP OF THE SITE.

PROJECT LAYOUT

- 1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYING OUT THE WORK AND VERIFYING ALL MEASUREMENTS PRIOR TO AND DURING THE ENTIRE PERIOD OF CONSTRUCTION. MEASUREMENTS SHALL BE CONTINUOUSLY VERIFIED.
2) THE MEASUREMENTS, EQUIPMENT ARRANGEMENTS, LINES, AND GRADES SHOWN ON THE PLANS MAY BE VARIED SLIGHTLY BY THE ENGINEER IN THE FIELD IF CONDITIONS JUSTIFY SUCH A VARIATION.

UTILITIES

- 1) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES BEFORE STARTING CONSTRUCTION.
2) THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING UTILITIES WHICH OCCURS DURING CONSTRUCTION AND SHALL IMMEDIATELY REPORT ANY DAMAGE TO THE AFFECTED UTILITY OWNERS. ALL REPAIRS OF THE DAMAGED UTILITIES SHALL BE REPAIRED IN ACCORDANCE WITH THE INSTRUCTIONS OF THE AFFECTED UTILITY AND ALL COSTS ASSOCIATED THEREWITH SHALL BE BORNE BY THE CONTRACTOR.

EARTHWORK

- 1) THE CONTRACTOR SHALL PERFORM EARTHWORK INDICATED AND REQUIRED FOR CONSTRUCTION OF THE WORK, COMPLETE AND IN PLACE, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. EXCEPT WHEN SPECIFICALLY PROVIDED TO THE CONTRARY, EXCAVATION SHALL INCLUDE THE REMOVAL OF MATERIALS, INCLUDING OBSTRUCTIONS THAT WOULD INTERFERE WITH THE PROPER EXECUTION AND COMPLETION OF THE WORK. THE REMOVAL OF SUCH MATERIALS SHALL CONFORM TO THE LINES AND GRADES INDICATED OR ORDERED. UNLESS OTHERWISE INDICATED, THE ENTIRE SITE SHALL BE STRIPPED OF VEGETATION AND DEBRIS AND SHALL BE GRUBBED, AND SUCH MATERIAL SHALL BE REMOVED FROM THE SITE PRIOR TO PERFORMING ANY EXCAVATION OR PLACING ANY FILL.
2) THE CONTRACTOR SHALL FURNISH, PLACE, AND MAINTAIN SUPPORTS AND SHORING THAT MAY BE REQUIRED FOR THE SIDES OF EXCAVATIONS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE STABILITY AND SAFETY OF ALL EXCAVATIONS. EXCAVATIONS SHALL BE SLOPED OR OTHERWISE SUPPORTED IN A SAFE MANNER IN ACCORDANCE WITH APPLICABLE STATE SAFETY REQUIREMENTS AND THE REQUIREMENTS OF OSHA SAFETY AND HEALTH STANDARDS FOR CONSTRUCTION (29CFR1926).
3) THE CONTRACTOR SHALL SUBMIT AN EXCAVATION PLAN, DETAILING METHODS OF BRACING, SHEETING, AND/OR SHORING OF ALL EXCAVATIONS. THIS PLAN SHALL BE PREPARED UNDER THE SUPERVISION OF A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF LOUISIANA, AND SHALL BE SEALED BY SUCH.
4) THE CONTRACTOR SHALL REMOVE AND EXCLUDE WATER, INCLUDING STORMWATER, GROUNDWATER, IRRIGATION WATER, AND WASTEWATER, FROM EXCAVATIONS. DEWATERING WELLS, WELL-POINTS, SUMP PUMPS, OR OTHER MEANS SHALL BE USED TO REMOVE WATER AND CONTINUOUSLY MAINTAIN GROUNDWATER AT A LEVEL AT LEAST 2 FEET BELOW THE BOTTOM OF EXCAVATIONS BEFORE THE EXCAVATION WORK BEGINS AT EACH LOCATION. WATER SHALL BE REMOVED AND EXCLUDED UNTIL BACKFILLING IS COMPLETE AND FIELD SOILS TESTING HAS BEEN COMPLETED.
5) THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN, DETAILING METHODS OF DEWATERING ALL EXCAVATIONS.
6) SOILS WHICH DO NOT MEET LIQUID LIMIT OR PLASTICITY INDEX REQUIREMENTS SHALL NOT BE BLENDED TO REDUCE LIQUID LIMIT OR PLASTICITY INDEX. SOILS MAY BE TREATED WITH LIME TO REDUCE PLASTICITY INDEX ONLY WITH THE APPROVAL OF THE ENGINEER.
7) USABLE SOILS SHALL HAVE A MAXIMUM PI OF 25 AND A MAXIMUM ORGANIC CONTENT OF 5 PERCENT. SOILS WITH A SILT CONTENT OF 50 PERCENT OR GREATER AND ALSO A PI OF 10 OR LESS WILL NOT BE ALLOWED.
8) GRANULAR MATERIAL SHALL BE MATERIAL SHALL BE MISSISSIPPI RIVER "PUMPED SAND", DOTD CLASSIFICATION OF A-4 OR BETTER HAVING A MAXIMUM LIQUID LIMIT OF 25 AND A MAXIMUM PLASTICITY INDEX OF 6. ALL SANDS SHALL BE FREE OF TRASH, WEEDS, LUMPS, HUMUS, PIECES OF WOOD OR ANY OTHER DELETERIOUS MATERIAL. GRANULAR MATERIAL SHALL HAVE A GROUP INDEX NUMBER NOT TO EXCEED 6. MATERIALS SHALL BE PLACED, PROPERLY SHAPED AND UNIFORMLY COMPACTED BY APPROVED METHODS TO A MINIMUM OF 95 PERCENT OF MAXIMUM DRY DENSITY. MAXIMUM DRY DENSITY WILL BE DETERMINED IN ACCORDANCE WITH DOTD TR 415 OR TR 418 AND IN-PLACE DENSITY WILL BE DETERMINED IN ACCORDANCE WITH DOTD TR 401. GRANULAR MATERIALS SHALL NOT BE DISPLACED DURING SUBSEQUENT OPERATIONS.
9) WHERE AREAS ARE INDICATED TO BE OVER-EXCAVATED, EXCAVATION SHALL BE TO THE DEPTH INDICATED, AND BACKFILL SHALL BE INSTALLED TO THE GRADE INDICATED. WHEN ORDERED TO OVER-EXCAVATE AREAS DEEPER AND/OR WIDER THAN REQUIRED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL OVER-EXCAVATE TO THE DIMENSIONS ORDERED AND BACKFILL TO THE INDICATED GRADE ANY OVER-EXCAVATION CARRIED BELOW THE GRADE ORDERED OR INDICATED SHALL BE BACKFILLED AND COMPACTED TO THE REQUIRED GRADE WITH GRANULAR MATERIAL OR NON-PLASTIC EMBANKMENT AS PART OF THE WORK.
10) UNLESS OTHERWISE INDICATED, EXCESS EXCAVATED MATERIAL SHALL BE THE PROPERTY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF EXCESS EXCAVATED MATERIAL. MATERIAL SHALL BE DISPOSED OF AT AN APPROVED OFF-SITE LOCATION ARRANGED BY THE CONTRACTOR IN ACCORDANCE WITH LAWS AND REGULATIONS REGARDING DISPOSAL OF SUCH MATERIAL. THE CONTRACTOR SHALL HAVE A SIGNED HOLD HARMLESS AGREEMENT FROM ALL PROPERTY OWNERS RECEIVING EXCESS MATERIAL INCLUDING EXCAVATED SOIL, STATING THEY ACCEPT THE MATERIAL AS-IS, DO NOT HOLD THE PARISH LIABLE FOR THE MATERIAL AND VERIFY THAT THE MATERIAL WILL NOT BE PLACED ON WETLAND AREAS.

OWNER/ENGINEER CONTACTS
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RESIDENT PROJECT REPRESENTATIVE (RPR) TBD PRIOR TO CONSTRUCTION

OWNER EAST ASCENSION CONSOLIDATED GRAVITY DISTRICT NO. 1
C/O ASCENSION PARISH GOVERNMENT
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UTILITY/OTHER FACILITY OWNERS IN PROJECT AREA

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REGIONAL NOTIFICATION CENTER LOUISIANA ONE CALL
811
louisiana811.com

THE CONTRACTOR SHALL CONTACT EACH AGENCY AND/OR COMPANY LISTED PRIOR TO CONSTRUCTION TO ENSURE THAT THE FOLLOWING REQUIREMENTS ARE MET:
A) THE CONTRACTOR SHALL CONTACT EACH AGENCY AND COMPANY RELATIVE TO THE EXACT LOCATION OF ANY UNDERGROUND INSTALLATIONS PRIOR TO THE RELIANCE UPON THE ACCURACY OF SUCH LOCATIONS SHOWN ON THE DRAWINGS;
B) THE CONTRACTOR SHALL CONTACT EACH AGENCY AND COMPANY TO NOTIFY EACH AGENCY AND COMPANY OF THE START OF CONSTRUCTION;
C) THE CONTRACTOR SHALL CONTACT EACH AGENCY AND COMPANY TO VERIFY ANY PROPOSED CONSTRUCTION OR MODIFICATION BY ANY AGENCY AND COMPANY IN THE PROJECT AREA;
D) THE CONTRACTOR SHALL CONTACT EACH AGENCY AND COMPANY TO VERIFY ANY SPECIAL CONSTRUCTION REQUIREMENTS RELATED TO EACH COMPANY OR AGENCY'S FACULTY(IES).
THE CONTRACTOR SHALL CONTACT THE REGIONAL NOTIFICATION CENTER PRIOR TO CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF STATE LAW.

Professional Engineer Seal for David A. Martin, P.E., License No. 57832. Project Information: NEW RIVER CHANNEL IMPROVEMENTS, GONZALES, EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1, 42077 CHURCHPOINT ROAD, GONZALES, LA 70737. Design Date: APRIL, 2019. Project No: 2017-14. Sheet No: 3 OF 82.

EXCAVATION IN VICINITY OF BRIDGES

- SEE THE SPECIAL PROVISIONS FOR REQUIREMENTS RELATED TO EXCAVATION UNDER BRIDGES. THE CONTRACTOR SHALL UNDERSTAND AND INCORPORATE THESE REQUIREMENTS AND LIMITATIONS INTO THE CONSTRUCTION SERVICE.
- PERMITS MUST BE SECURED FROM DOTD AND KCS RAILROAD FOR AN APPROVED METHOD OF EXCAVATION WITHIN DOTD OR KCS RAILROAD PROPERTY. SEE CONTACTS SHOWN ON SHEET 3 OF THE PLANS FOR THE PERMIT FORM REQUIRED.

ARBORIST SERVICES

- THE CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A LICENSED ARBORIST REGISTERED BY AND IN GOOD STANDING WITH THE LOUISIANA HORTICULTURE COMMISSION. THE ARBORIST WILL BE RESPONSIBLE FOR DIRECTING EXCAVATION AND FILL OPERATIONS IN THE VICINITY OF SIGNIFICANT TREES IN THE PROJECT AREA. THE ARBORIST SHALL ALSO BE RESPONSIBLE FOR DIRECTING TREE TRIMMING OF ANY TREE TO BE TRIMMED WITHIN THE PROJECT AREA. SEE THE SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.

TEMPORARY DAMS

- THE CONTRACTOR MAY CONSTRUCT TEMPORARY DAMS TO AID IN THE CONSTRUCTION. SEE THE SPECIAL PROVISIONS FOR CONSTRAINTS RELATED TO TEMPORARY DAMS.

EQUIPMENT ON PUBLIC ROADS

- EQUIPMENT ON ANY PARISH-MAINTAINED, CITY OF GONZALES-MAINTAINED, STATE-MAINTAINED, OR ANY OTHER PUBLIC ROAD OR DRIVE SHALL BE LIMITED TO RUBBER TIRE EQUIPMENT. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE REPAIR OF DAMAGED ROAD OR DRIVES TO THE SATISFACTION OF THE AUTHORITY HAVING JURISDICTION OVER THE DAMAGED PAVEMENT.

METALS

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHALL MAKE ANY FIELD MEASUREMENTS NECESSARY AND SHALL BE FULLY RESPONSIBLE FOR ACCURACY AND LAYOUT OF WORK. THE CONTRACTOR SHALL REVIEW THE DRAWINGS, AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER FOR CLARIFICATION PRIOR TO STARTING FABRICATION.
- BOLTS, NUTS, AND WASHERS IN THE LOCATIONS LISTED BELOW SHALL BE STAINLESS STEEL AS INDICATED.
 - BURIED LOCATIONS.
 - SUBMERGED LOCATIONS.
 - LOCATIONS SUBJECT TO SEASONAL OR OCCASIONAL FLOODING.
 - INSIDE HYDRAULIC STRUCTURES BELOW THE TOP OF THE STRUCTURE.
 - INSIDE TRENCHES, CONTAINMENT WALLS, AND CURBED AREAS.
 - LOCATIONS INDICATED BY THE CONTRACT DOCUMENTS OR DESIGNATED BY THE ENGINEER TO BE PROVIDED WITH STAINLESS STEEL BOLTS.
- UNLESS OTHERWISE INDICATED, STAINLESS STEEL BOLTS, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE TYPE 316 STAINLESS STEEL, CLASS 2, CONFORMING TO ASTM A 193 FOR BOLTS AND TO ASTM A 194 FOR NUTS. THREADS ON STAINLESS STEEL BOLTS SHALL BE PROTECTED WITH AN ANTI-SEIZE LUBRICANT SUITABLE FOR SUBMERGED STAINLESS STEEL BOLTS, TO MEET GOVERNMENT SPECIFICATION MIL-A-907E. BURIED BOLTS IN POORLY DRAINED SOIL SHALL BE COATED THE SAME AS THE BURIED PIPE. ANTI - SEIZE LUBRICANT SHALL BE CLASSIFIED AS ACCEPTABLE FOR POTABLE WATER USE BY THE NSF.
- BOLT AND NUT MATERIAL SHALL BE FREE-CUTTING STEEL.
- NUTS SHALL BE CAPABLE OF DEVELOPING THE FULL STRENGTH OF THE BOLTS. THREADS SHALL BE COARSE THREAD SERIES CONFORMING TO THE REQUIREMENTS OF THE AMERICAN STANDARD FOR SCREW THREADS. BOLTS AND CAP SCREWS SHALL HAVE HEXAGON HEADS AND NUTS SHALL BE HEAVY HEXAGON SERIES.
- BOLTS AND NUTS SHALL BE INSTALLED WITH WASHERS FABRICATED OF MATERIAL MATCHING THE BASE MATERIAL OF BOLTS, EXCEPT THAT HARDENED WASHERS FOR HIGH STRENGTH BOLTS SHALL CONFORM TO THE REQUIREMENTS OF THE AISC SPECIFICATION. LOCK WASHERS FABRICATED OF MATERIAL MATCHING THE BOLTS SHALL BE INSTALLED WHERE INDICATED.
- THE LENGTH OF EACH BOLT SHALL BE SUCH THAT THE BOLT EXTENDS AT LEAST 1/8-INCH BEYOND THE OUTSIDE FACE OF THE NUT BEFORE TIGHTENING, EXCEPT FOR ANCHOR BOLTS, WHICH SHALL BE FLUSH WITH THE FACE OF THE NUT BEFORE TIGHTENING.
- ADHESIVE ANCHORS AND RODS: UNLESS OTHERWISE INDICATED, DRILLED CONCRETE OR MASONRY ANCHORS SHALL BE ADHESIVE ANCHOR AND ROD SYSTEMS AS SPECIFIED BELOW.
 - ANCHORS AND RODS SHALL EMPLOY AN INJECTABLE ADHESIVE. ADHESIVE SHALL BE FURNISHED IN SIDE-BY-SIDE REFILL PACKETS THAT KEEP COMPONENTS SEPARATE PRIOR TO INSTALLATION. SIDE - BY - SIDE REFILL PACKETS SHALL ACCEPT STATIC MIXING NOZZLES WHICH THOROUGHLY COMBINES COMPONENTS AND ALLOWS INJECTION DIRECTLY INTO DRILLED HOLE. ONLY INJECTION TOOLS AND STATIC MIXING NOZZLES AS RECOMMENDED BY MANUFACTURER SHALL BE USED. MANUFACTURER'S RECOMMENDED INSTRUCTIONS SHALL BE FOLLOWED. INJECTION ADHESIVE SHALL BE HILTI - HY 500 MAX - SD OR EQUAL.
 - ANCHOR RODS SHALL BE FURNISHED WITH CHAMFERED ENDS SO THAT EITHER END WILL ACCEPT A NUT AND WASHER. ALTERNATIVELY, ANCHOR

RODS SHALL BE FURNISHED WITH AT 45 DEGREE CHISEL END ON ONE END TO ALLOW FOR EASY INSERTION INTO AN ADHESIVE - FILLED HOLE. ANCHOR RODS SHALL BE MANUFACTURED TO MEET ISO 898 CLASS 5.8, ASTM A193 GRADE B7 (HIGH STRENGTH CARBON STEEL ANCHOR). ANCHOR RODS SHALL BE HILTI HAS RODS OR EQUAL.

- EXPANDING-TYPE ANCHORS IF INDICATED OR PERMITTED, SHALL BE GALVANIZED STEEL EXPANSION TYPE ITW RAMSET/REDHEAD "TRUBOLT" ANCHORS; MCCULLOCK INDUSTRIES "KWICK-BOLT;" OR EQUAL. LEAD CAULKING ANCHORS WILL NOT BE PERMITTED. SIZE SHALL BE AS INDICATED. EMBEDMENT DEPTH SHALL BE AS THE MANUFACTURER RECOMMENDS FOR THE LOAD TO BE SUPPORTED. EXPANSION TYPE ANCHORS THAT ARE TO BE EMBEDDED IN GROUT MAY BE STEEL. NON-EMBEDDED BURIED OR SUBMERGED ANCHORS SHALL BE STAINLESS STEEL.
- POWER-DRIVEN PINS INSTALLATION IN CONCRETE OR STEEL SHALL BE HEAT-TREATED STEEL ALLOY. IF THE PINS ARE NOT INHERENTLY SUFFICIENTLY CORROSION-RESISTANT FOR THE CONDITIONS TO WHICH THEY WILL BE EXPOSED, THEY SHALL BE PROTECTED IN AN ACCEPTABLE MANNER. PINS SHALL HAVE CAPPED OR THREADED HEADS CAPABLE OF TRANSMITTING THE LOADS THE SHANKS ARE REQUIRED TO SUPPORT. PINS THAT ARE CONNECTED TO STEEL SHALL HAVE LONGITUDINAL SERRATIONS AROUND THE CIRCUMFERENCE OF THE SHANK. POWER-DRIVEN PINS SHALL BE INSTALLED BY A CRAFTSPERSON CERTIFIED BY THE MANUFACTURER AS BEING QUALIFIED TO INSTALL THE MANUFACTURER'S PINS. PINS SHALL BE DRIVEN IN ONE INITIAL MOVEMENT BY AN INSTANTANEOUS FORCE THAT HAS BEEN CAREFULLY SELECTED TO ATTAIN THE REQUIRED PENETRATION. DRIVEN PINS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS WHERE "D" = PIN'S SHANK DIAMETER.

MATERIAL PENETRATED BY PIN	MATERIAL MINIMUM THICKNESS	PIN SHANK PENETRATION IN SUPPORTING MATERIAL	MINIMUM SPACE FROM PIN'S CL TO EDGE OF PENETRATED MATERIAL	MINIMUM PIN SPACING
CONCRETE	16D	6D MINIMUM	14D	20D
STEEL	1/4"	STEEL THICKNESS	4D	7D
- IMPACT ANCHORS SHALL BE AN EXPANSION TYPE ANCHOR IN WHICH A NAIL TYPE PIN IS DRIVEN TO PRODUCE THE EXPANSIVE FORCE. THE PIN SHALL HAVE A ZINC SLEEVE WITH A MUSHROOM STYLE HEAD AND STAINLESS STEEL NAIL PIN. ANCHORS SHALL BE METAL HIT ANCHORS, MANUFACTURED BY HILTI, INC., RAWL ZAMAC NAILIN, MANUFACTURED BY THE RAWLPLUG COMPANY; OR EQUAL.
- STRUCTURAL STEEL SHALL BE FABRICATED IN ACCORDANCE WITH THE DRAWINGS, AISC SPECIFICATIONS, AND AS SHOWN ON THE SHOP DRAWINGS. MATERIALS SHALL BE PROPERLY MARKED AND MATCH MARKED FOR FIELD ASSEMBLY. WHERE FINISHING IS REQUIRED, ASSEMBLY SHALL BE COMPLETED INCLUDING BOLTING AND WELDING OF UNITS, BEFORE START OF FINISHING OPERATIONS. SHOP AND FIELD CONNECTIONS SHALL BE BOLTED OR WELDED AS INDICATED. ALL CONNECTIONS SHALL DEVELOP FULL STRENGTH OF MEMBERS JOINED AND SHALL CONFORM TO AISC STANDARD CONNECTIONS. UNLESS OTHERWISE INDICATED, WELDS SHALL CONFORM TO AISC LRFD SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS.
- WELDING SHALL BE BY THE METAL-ARC METHOD OR GAS-SHIELDED ARC METHOD AS DESCRIBED IN THE AMERICAN WELDING SOCIETY'S "WELDING HANDBOOK" AS SUPPLEMENTED BY OTHER PERTINENT STANDARDS OF THE AWS. QUALIFICATION OF WELDERS SHALL BE IN ACCORDANCE WITH THE AWS STANDARDS GOVERNING SAME. IN ASSEMBLY AND DURING WELDING, THE COMPONENT PARTS SHALL BE ADEQUATELY CLAMPED, SUPPORTED, AND RESTRAINED TO MINIMIZE DISTORTION AND FOR CONTROL OF DIMENSIONS. WELD REINFORCEMENT SHALL BE AS INDICATED BY THE AWS CODE. UPON COMPLETION OF WELDING, WELD SPATTER, FLUX, SLAG, AND BURRS LEFT BY ATTACHMENTS SHALL BE REMOVED. WELDS SHALL BE REPAIRED TO PRODUCE A WORKMANLIKE APPEARANCE, WITH UNIFORM WELD CONTOURS AND DIMENSIONS. SHARP CORNERS OF MATERIAL THAT IS TO BE PAINTED OR COATED SHALL BE GROUND TO A MINIMUM OF 1/32-INCH ON THE FLAT.
- DRILLED ANCHORS AND REINFORCING BARS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. HOLES SHALL BE ROUGHENED WITH A BRUSH ON A POWER DRILL, CLEANED AND DRY. DRILLED ANCHORS SHALL NOT BE INSTALLED UNTIL THE CONCRETE HAS REACHED THE REQUIRED 28-DAY COMPRESSIVE STRENGTH. ADHESIVE ANCHORS SHALL NOT BE LOADED UNTIL THE ADHESIVE HAS REACHED ITS INDICATED STRENGTH IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

MATERIAL PENETRATED BY PIN	MATERIAL MINIMUM THICKNESS	PIN SHANK PENETRATION IN SUPPORTING MATERIAL	MINIMUM SPACE FROM PIN'S CL TO EDGE OF PENETRATED MATERIAL	MINIMUM PIN SPACING
CONCRETE	16D	6D MINIMUM	14D	20D
STEEL	1/4"	STEEL THICKNESS	4D	7D

STRUCTURAL CONCRETE AND REINFORCEMENT

- UNLESS NOTED OTHERWISE OR SPECIFIED OTHERWISE, ALL STRUCTURAL CONCRETE SHALL BE CAST IN PLACE AND SHALL, WHEN MOLDED AND CURED IN ACCORDANCE WITH DOTD TR 226 AND TESTED IN ACCORDANCE WITH DOTD TR 230, SHALL SHOW A MINIMUM COMPRESSIVE STRENGTH NOT LESS THAN 4,000 PSI AT 28 DAYS. REINFORCING STEEL FOR CONCRETE SHALL COMPLY WITH THE FOLLOWING UNLESS OTHERWISE SPECIFIED.
- REINFORCING STEEL USED IN STRUCTURES SHALL BE GRADE 60. BARS SMALLER THAN NO. 3 NEED NOT BE DEFORMED. ALL DEFORMED BARS SHALL COMPLY WITH ITEMS 1, 2, OR 3 BELOW. SIZE W 5 WIRE COMPLYING WITH ITEM 4 BELOW MAY BE USED IN LIEU OF BARS SMALLER THAN NO. 3. BILLET-STEEL DEFORMED AND PLAIN BARS SHALL COMPLY WITH ASTM 615 AND SHALL BE PRODUCED AT A MILL LISTED ON THE LDOTD AML (FORMERLY QPL 71). RAIL-STEEL AND AXLE-STEEL DEFORMED AND PLAIN BARS SHALL COMPLY WITH ASTM A 996. COLD-DRAWN STEEL WIRE SHALL COMPLY WITH ASTM A

1064 WITH THE FOLLOWING AMENDMENT: FOR MATERIAL TESTING OVER 110,000 PSI TENSILE STRENGTH IN HIGH STRENGTH APPLICATIONS SUCH AS SPIRALS AND TIES, THE 25 PERCENT MINIMUM REDUCTION IN AREA SHALL BE REDUCED 5 PERCENT FOR EACH 10,000 PSI INCREMENT OF TENSILE STRENGTH EXCEEDING 110,000 PSI. WELDED STEEL WIRE FABRIC SHALL CONFORM TO ASTM A 1064. EPOXY COATED REINFORCING STEEL AND PATCHING MATERIALS SHALL COMPLY WITH AASHTO M 284 AND SHALL BE LISTED ON THE LDOTD AML (FORMERLY QPL 51).

- TOLERANCES IN PLACING REINFORCING SHALL BE:
 - ± 3/8" FOR MEMBERS WITH THICKNESS ≤ 8"
 - ± 1/2" FOR MEMBERS WITH THICKNESS > 8"
- CONCRETE COVER SHALL BE AS FOLLOWS:
 - FOR CONCRETE PLACED AGAINST EARTH ----- 3"
 - FOR SURFACES IN CONTACT WITH WATER ----- 2 1/2"
 - FOR FORMED SURFACES IN CONTACT WITH EARTH ----- 2"
 - FOR UNDERSIDE OF SLABS OVER WATER, BEAMS, AND COLUMNS NOT IN CONTACT WITH WATER OR EARTH --- 2"
 - FOR ALL OTHER SURFACES ----- 2"
- WALLS AND SLABS WITH A SINGLE LAYER OF REINFORCEMENT SHALL HAVE THAT REINFORCEMENT CENTERED, UNLESS NOTED OTHERWISE.
- ALL JOINT SURFACES SHALL BE ROUGH AND THOROUGHLY CLEANED.
- DOWELS, PIPES, WATERSTOPS, AND OTHER EMBEDDED MATERIALS SHALL BE HELD SECURELY IN POSITION WHILE CONCRETE IS BEING PLACED.
- REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY PIPE, PIPE FLANGE, METAL CONDUIT, OR OTHER METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM OF 2 INCHES CLEARANCE SHALL BE PROVIDED IN ALL CASES.
- ALL ITEMS EMBEDDED IN CONCRETE SHALL BE PLACED ON CENTER AT LEAST 4 TIMES THEIR OUTSIDE DIMENSION. THE OUTSIDE DIMENSION SHALL NOT EXCEED ONE THIRD OF THE MEMBER THICKNESS.
- SLABS WITH SLOPING SURFACES SHALL HAVE THE INDICATED SLAB THICKNESS MAINTAINED AS THE MINIMUM. SLAB BOTTOMS CAN EITHER SLOPE WITH THE TOP SURFACE OR BE LEVEL. REINFORCEMENT IN SLAB WITH SLOPING SURFACES SHALL BE PLACED AT THE REQUIRED CLEARANCE FROM THE SLAB SURFACE.
- ASIDE FROM NORMAL ACCESSORIES USED TO HOLD REINFORCING BARS FIRMLY IN POSITION, THE FOLLOWING SHALL BE ADDED WHERE TWO CURTAINS OF REINFORCEMENT ARE REQUIRED:
 - A. IN SLABS, #4 RISER OR Z SHAPE SPACER BARS AT 36 INCHES O.C. MAXIMUM EACH WAY TO SUPPORT TOP BARS.
 - B. IN WALLS, #3 U OR Z SHAPE SPACERS AT 72 INCHES O.C. MAXIMUM EACH WAY
- VERTICAL REINFORCEMENT FOR CONCRETE OR MASONRY SHALL BE SPLICED WITH DOWEL BARS OF THE SAME SIZE AND SPACING FROM THE FOUNDATION USING A STANDARD SPLICE LENGTH. HORIZONTAL CORNER BARS, WITH FULL TENSION LAPS, MATCHING CONTINUOUS BAR SIZE AND SPACING SHALL BE PROVIDED.
- SEALANT SHALL BE PLACED AT THE TOP OF ALL JOINTS RECEIVING EXPANSION JOINT FILLER. SEALANT DEPTH SHALL NOT EXCEED JOINT FILLER THICKNESS.
- ALL EXPOSED CONCRETE CORNERS SHALL HAVE A 1/4" CHAMFER.
- FABRICATIONS AND PLACING OF REINFORCING BARS SHALL CONFORM TO THE MANUAL OF STANDARDS PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI 315, LATEST EDITION.
- ALL LAP SPLICES SHALL BE A MINIMUM OF 40 BARS DIAMETER UNLESS OTHERWISE NOTED. SPLICES SHALL BE STAGGERED SUCH THAT NOT MORE THAN 50% ARE SPLICED WITHIN THE LAP LENGTH.
- SLAB SHALL BE GIVEN A SMOOTH TROWEL FINISH.
- CONCRETE SHALL BE PLACED PER THE REQUIREMENTS OF ACI 305 (HOT WEATHER CONCRETE PLACEMENT) AND ACI 306 (COLD WEATHER CONCRETE PLACEMENT.)
- CONCRETE SHALL BE CURED AND TESTED PER REQUIREMENTS OF ACI 318, LATEST EDITION.
- CALCIUM CHLORIDE AND/OR CHLORIDE CONTAINING ADMIXTURES SHALL NOT BE USED.
- CONTRACTOR SHALL SUBMIT MIX DESIGN INCLUDING PROPORTIONS OF ALL COMPONENTS FOR REVIEW.
- THIS PROJECT WILL BE FUNDED BY A LDEQ CWSRF LOAN WHICH REQUIRES THE USE OF AMERICAN IRON AND STEEL BASED ON THE AMERICAN IRON AND STEEL ACT. DOCUMENTATION MUST BE SUBMITTED ACCORDING TO THE SPECIFICATIONS.

GROUT

- UNLESS NOTED OTHERWISE, GROUT SHALL BE NON - SHRINK GROUT HAVING A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5000 PSI WHEN MIXED AT A FLUID CONSISTENCY. NON NON-SHRINK GROUT SHALL MEET THE REQUIREMENTS OF ASTM C 1107, GRADE B OR C, WHEN MIXED TO FLUID, FLOWABLE, AND PLASTIC CONSISTENCIES. NON-SHRINK GROUT SHALL BE MASTERFLOW 713 PLUS BY MBT-CHEMREX; FIVE STAR GROUT BY FIVE STAR PRODUCTS; SIKAGROUT 212 BY SIKA CORPORATION; PREMIER BY L&M CONSTRUCTION CHEMICALS; HIGH-FLOW GROUT BY EUCLID CHEMICAL COMPANY; CG 200 PC BY HILTI, OR EQUAL.

- WHERE INDICATED, EPOXY GROUT SHALL BE UTILIZED. EPOXY GROUT SHALL BE A FLOWABLE, NON-SHRINK, 100 PERCENT SOLIDS SYSTEM. THE EPOXY GROUT SYSTEM SHALL HAVE 3 COMPONENTS: RESIN, HARDENER, AND SPECIALLY BLENDED AGGREGATE, EACH PREMEASURED AND PREPACKAGED. THE RESIN COMPONENT SHALL NOT CONTAIN ANY NON-REACTIVE DILUENTS. RESINS CONTAINING BUTYL GLYCIDYL ETHER (BGE) OR OTHER HIGHLY VOLATILE AND HAZARDOUS REACTIVE DILUENTS ARE NOT ACCEPTABLE. VARIATION OF COMPONENT RATIOS IS NOT PERMITTED UNLESS SPECIFICALLY RECOMMENDED BY THE MANUFACTURER. MANUFACTURER'S INSTRUCTIONS SHALL BE PRINTED ON EACH CONTAINER IN WHICH THE MATERIALS ARE PACKAGED. NON-SHRINK EPOXY GROUT SHALL BE FIVE STAR DP EPOXY GROUT BY FIVE STAR PRODUCTS, INC.; MASTERFLOW 648 CP PLUS BY MBT-CHEMREX; SIKADUR 42 GROUT-PAK BY SIKA CORPORATION; OR EQUAL.

PIPING

- REFER TO THE PIPING SCHEDULE FOR SPECIFIC REQUIREMENTS.
- THE DRAWINGS DEFINE THE GENERAL LAYOUT, CONFIGURATION, ROUTING, METHOD OF SUPPORT, PIPE SIZE, AND PIPE TYPE. THE DRAWINGS ARE NOT PIPE CONSTRUCTION OR FABRICATION DRAWINGS.
- WELDING SHALL BE DONE BY SKILLED WELDERS AND WELDING OPERATORS WHO HAVE ADEQUATE EXPERIENCE IN THE METHODS AND MATERIALS TO BE USED. WELDERS SHALL BE QUALIFIED UNDER THE PROVISIONS OF AWS D1.1 OR THE ASME BOILER AND PRESSURE VESSEL CODE, SECTION 9, BY AN INDEPENDENT LOCAL, APPROVED TESTING AGENCY NOT MORE THAN 6 MONTHS PRIOR TO COMMENCING WORK ON THE PIPING. MACHINES AND ELECTRODES SIMILAR TO THOSE USED IN THE WORK SHALL BE USED IN QUALIFICATION TESTS. QUALIFICATION TESTING OF WELDERS AND MATERIALS USED DURING TESTING IS PART OF THE WORK.



SUBMITTED BY:
ANDRE R. FORD, E.I.
PROJECT MANAGER

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL

LICENSE NO. 37892



MARK	DESCRIPTION	DATE	ARF	DAM	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	04/2019				

DESIGNED BY: DAM/ARF

DRAWN BY: ARF/RMM

CHECKED BY: DAM

DATE: APRIL, 2019

DETAILED BY: ARF/RMM

HDC PROJECT NO. 2017-14

NEW RIVER CHANNEL IMPROVEMENTS

LOUISIANA

GONZALES

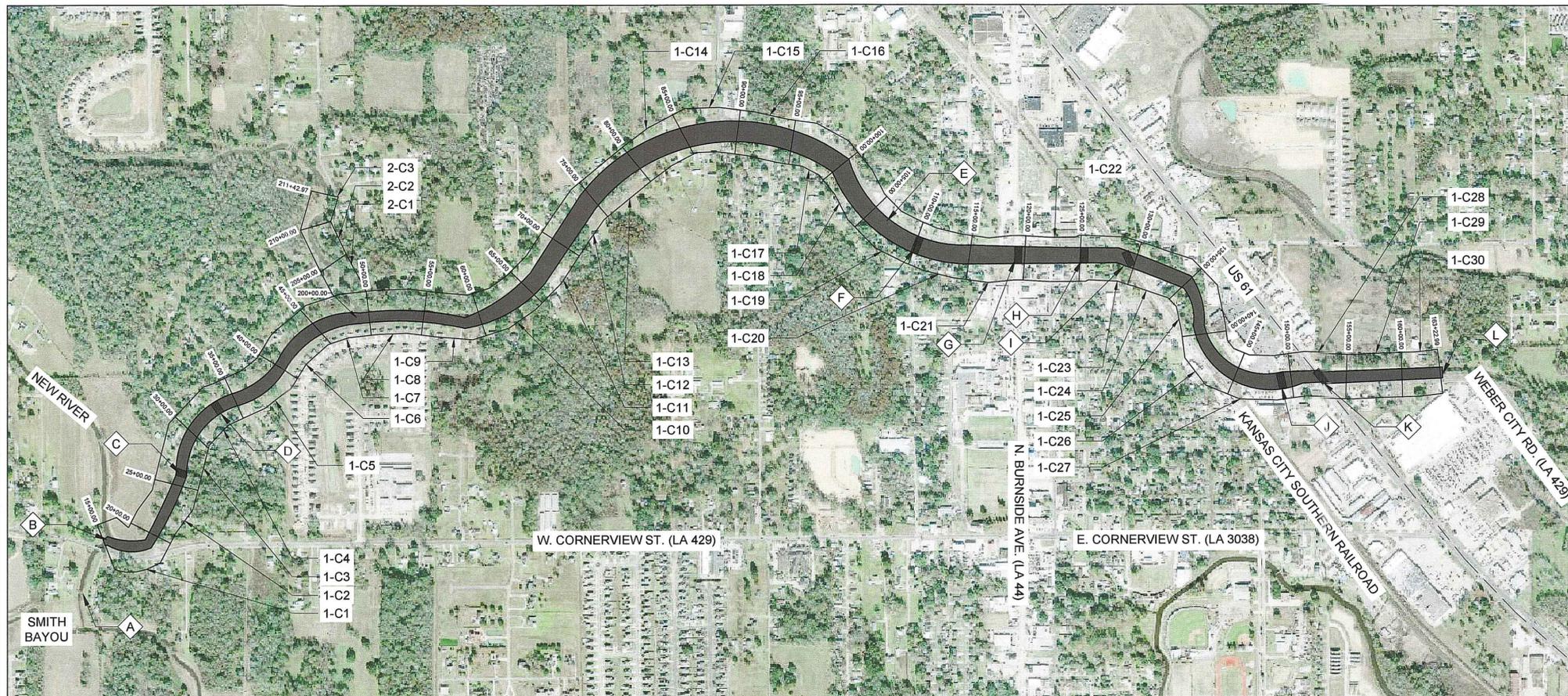
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1

42077 CHURCHPOINT ROAD, GONZALES, LA 70737

GENERAL NOTES & SPECIFICATIONS

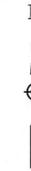
FUNCTION	PIPING MATERIALS (SEE SCH A1 RIGHT)				FIELD TEST REQUIREMENTS (SEE NOTE AND NOTE 4)			PIPE COLOR (EXPOSED PIPE)	PIPE MARKER (EXPOSED PIPE)	LETTER COLOR (EXPOSED PIPE)	
	EXPOSED PIPING (SEE NOTE 14)		BURNED PIPING (SEE NOTE 13)		MINIMUM TEST PRESSURE (PSI)	TEST MEDIUM	LEAKAGE ALLOWANCE (SEE NOTE 2)				
	2" DIA AND SMALLER	2 1/2" DIA AND LARGER	2" DIA AND SMALLER	2 1/2" DIA AND LARGER							
A	AERATION	1,16,18	5,11,16,18	1,16,18	5,11,16,18	25	AIR	(A)(D)	NOTE 17	BLUE	WHITE
AW	AERATED WATER	16	11	16	11,32	25	AIR	(A)(D)	AQUA	BLUE	WHITE
BD	BOTTOM DRAIN	--	26	--	26	50	WATER	(A)	NOTE 17	GREEN	WHITE
BP	BYPASS	--	8	--	8	25	WATER	(A)	NOTE 17	GREEN	WHITE
BW	FILTER BACKWASH	--	8	--	8	75	WATER	(A)	NOTE 17	GREEN	WHITE
C	CONDENSATE	29*	29*	29*	29*	125	WATER	(A)	NOTE 17	YELLOW	BLACK
CAW	CHANNEL AGITATION WATER	16	16	16	16	25	WATER	(A)	NOTE 17	YELLOW	BLACK
CD	CHEMICAL DRAIN AND VENT	13,17,23	13,17,23	13,17,23	13,17,23	NOTE 7	--	--	NOTE 17	YELLOW	BLACK
CL	CHLORINE (GAS OR LIQUID STATE)	10	--	10	--	300	DRY AIR	(A)(D)	--	YELLOW	YELLOW
CLS	CHLORINE SOLUTION	16	16	16	16	125	WATER	(A)	NOTE 17	YELLOW	BLACK
CLV	CHLORINE GAS UNDER VACUUM	16	16	16	16	15 IN Hg	VACUUM	(A)(E)	NOTE 17	YELLOW	BLACK
CN	CENTRATE	--	26	--	26	50	WATER	(A)	NOTE 17	GREEN	WHITE
CS	CAUSTIC SODA	6	6	6	6	125	WATER	(A)	NOTE 17	YELLOW	BLACK
CSL	CIRCULATED SLUDGE	--	30	--	30	50	WATER	(A)	NOTE 17	BROWN	YELLOW
CV	CHLORINATOR VENT AND DETECTION LINE	16	16	16	16	NOTE 8	--	--	NOTE 17	YELLOW	BLACK
DCS	DEFOAMING CHEMICAL SOLUTION	16	16	16	16	125	WATER	(A)	NOTE 17	GREEN	WHITE
DN	DECANT	--	26	--	26	50	WATER	(A)	NOTE 17	GREEN	WHITE
DSL	DIGESTED SLUDGE	--	30	--	30	50	WATER	(A)	NOTE 17	BROWN	YELLOW
DW	DEMINERALIZED WATER	16,18	16,18	16,18	16,18	125	WATER	(A)	NOTE 17	GREEN	WHITE
EE	ENGINE EXHAUST	14*	14*	14	14	NOTE 8	--	--	NOTE 17	YELLOW	BLACK
EWV	ENGINE COOLING WATER RETURN	1*	1*	1	1	125	WATER	(A)	NOTE 17	GREEN	WHITE
EVWS	ENGINE COOLING WATER SUPPLY	1*	1*	1	1	125	WATER	(A)	NOTE 17	GREEN	WHITE
F	FROTH	30	30	30	30	50	WATER	(A)	NOTE 17	YELLOW	BLACK
FA	FOUL AIR	--	18	--	18	10	AIR	(A)(D)	NOTE 17	YELLOW	BLACK
FAW	FILTERED AIR WASH	16	11	16	11,32	25	AIR	(A)(D)	NOTE 17	GREEN	WHITE
FE	FINAL EFFLUENT	--	8	--	8	50	WATER	(A)	NOTE 17	GREEN	WHITE
FIW	FINISHED WATER	16	11	16	11,32	25	WATER	(A)	NOTE 17	BLUE	BLUE
FLW	FILTERED WATER	16	11	16	11,32	25	WATER	(A)	NOTE 17	AQUA	AQUA
FM	FORCE MAIN	--	8,26	--	8,26	125	WATER	(A)	NOTE 17	YELLOW	BLACK
FOR	FUEL OIL RETURN	9	9	9	9	125	AIR	(A)(D)	NOTE 17	YELLOW	BLACK
FOS	FUEL OIL SUPPLY	9	9	9	9	125	AIR	(A)(D)	NOTE 17	YELLOW	BLACK
FS	FROTH SPRAY	2	2	2	2	125	WATER	(A)	NOTE 17	GREEN	WHITE
FSP	FIRE PROTECTION SPRINKLER SYSTEM	NOTE 10	NOTE 10	NOTE 10	NOTE 10	NOTE 9	WATER	--	NOTE 17	RED	RED
G	GRIT	--	26	--	26	50	WATER	(A)	NOTE 17	BROWN	YELLOW
H	HYPOCHLORITE	16	16	16	16	125	WATER	(A)	NOTE 17	ORANGE	ORANGE
HR	HEATING WATER RETURN	1*	1*	1*	1*	125	WATER	(A)	NOTE 17	YELLOW	BLACK
HS	HEATING WATER SUPPLY	1*	1*	1*	1*	125	WATER	(A)	NOTE 17	YELLOW	BLACK
HWR	DOMESTIC HOT WATER RETURN	24*	2*	24*	2*	125	WATER	(A)	NOTE 17	YELLOW	BLACK
HWS	DOMESTIC HOT WATER SUPPLY	24*	2*	24*	2*	125	WATER	(A)	NOTE 17	YELLOW	BLACK
IA	INSTRUMENT AIR	24	2	24	2	125	AIR	(A)(D)	NOTE 17	GREEN	BLUE
IE	INTERMEDIATE EFFLUENT	--	8	--	8,28	50	WATER	8(A)(28)(B)	NOTE 17	GREEN	WHITE
LA	LIQUID ALUM	16	16	16	16	125	WATER	(A)	NOTE 17	ORANGE	YELLOW
LO	LUBE OIL	9	9	9	9	125	AIR	(A)(D)	NOTE 17	RED	YELLOW
LPG	LIQUEFIED PETROLEUM GAS	3	3	3	3	NOTE 7	AIR	--	NOTE 17	RED	YELLOW
LS	LIME SLURRY	NOTE 15	NOTE 15	NOTE 15	NOTE 15	NOTE 8	--	--	NOTE 17	LIGHT GREEN	YELLOW
LSP	LANDSCAPING SPRINKLER SYSTEM	2,16	2,16	2,16	2,16	NOTE 7	--	--	NOTE 17	GREEN	WHITE
ML	MIXED LIQUOR	2	2,8,26,28	2	2,8,26,28	50	WATER	2,3,26(A) 28(B)	NOTE 17	BROWN	YELLOW
MG	NATURAL GAS	9	9	9	9	NOTE 7	AIR	--	NOTE 17	RED	YELLOW
OF	OVERFLOW	--	8	--	8	25	WATER	2,8(A)12,28(B) 22(C)	NOTE 17	GREEN	WHITE
PA	PLANT AIR	7	7	7	7	300	AIR	(A)	NOTE 17	GREEN	BLUE
PD	PLANT DRAIN	2	8,12	2	8,12,22,28	NOTE 6	WATER	(A)	NOTE 17	GREEN	WHITE
PEA	POLYMER - ANIONIC	16	16	16	16	125	WATER	(A)	NOTE 17	GREEN	GREEN
PEC	POLYMER - CATIONIC	16	16	16	16	125	WATER	(A)	NOTE 17	GREEN	GREEN
PEF	PRIMARY EFFLUENT	--	8,26	--	8,26	25	WATER	(B)	NOTE 17	YELLOW	BLACK
PEN	POLYMER - NONIONIC	16	16	16	16	125	WATER	(A)	NOTE 17	GREEN	GREEN
PI	PLANT INFLENT	--	21,26	--	21,26	NOTE 6	WATER	(B)	NOTE 17	YELLOW	BLACK
PO	PLANT OVERFLOW	2	8	2	8,28	NOTE 6	WATER	2,8(A) 28(B)	NOTE 17	GREEN	WHITE
PTW	PRE-TREATED WATER	16	11	16	11,32	25	WATER	(A)	NOTE 17	AQUA	YELLOW
PW	POTABLE WATER	2,24	2	2,24	2,11,19	125	WATER	2,11,24(A) 19(B)	NOTE 17	BLUE	GREEN
RAS	RETURN ACTIVATED SLUDGE	--	26	--	26	50	WATER	(A)	NOTE 17	BROWN	YELLOW
REW	RECLAIMED WATER	--	8	--	8	75	WATER	(A)	NOTE 17	PURPLE	PURPLE
RSL	RAW SLUDGE	--	30	--	30	50	WATER	(A)	NOTE 17	BROWN	YELLOW
RW	RAW WATER	2	8	2	8,28	125	WATER	2,8(A) 28(B)	NOTE 17	GREEN	GREEN
RWL	RAINWATER LEADER	4,12	4,12	12	12	NOTE 7	--	--	NOTE 17	GREEN	WHITE
S	SCUM	--	30	--	26	50	WATER	(A)	NOTE 17	YELLOW	BLACK
SA	SAMPLE LINE (SEE LIST AT RIGHT)	16,18,24	--	16,18,24	--	125	WATER	(A)	NOTE 17	YELLOW	BLACK
SC	SPARE CHEMICAL	16	16	16	16	125	WATER	(A)	NOTE 17	YELLOW	BLACK
SD	SANITARY DRAIN AND VENT	4,12	12	12	12,21	NOTE 7	--	--	NOTE 17	BLACK	YELLOW
SDR	STORM DRAIN	--	8	--	22,28	NOTE 6	WATER	8,(A)28(B)22(C)	NOTE 17	BLACK	GREEN
SE	SECONDARY EFFLUENT	--	8,26	--	8,26	50	WATER	(A)	NOTE 17	YELLOW	BLACK
SF	SLUDGE FILTRATE	--	26	--	26	50	WATER	(A)	NOTE 17	BROWN	YELLOW
SG	SLUDGE GAS	31	31	31	31	15	AIR	(A)(D)	NOTE 17	BROWN	YELLOW
SI	SODIUM SILICATE	6,16	6,16	6,16	6,16	125	WATER	(A)	NOTE 17	YELLOW	BLACK
SN	SUPERNATANT	--	26	--	26	50	WATER	(A)	NOTE 17	YELLOW	BLACK
SO	SULFUR DIOXIDE (GAS OR LIQUID STATE)	10	--	10	--	300	DRY AIR	(A)(D)	NOTE 17	YELLOW	BLACK
SOA	SULFURIC ACID	25	25	--	--	125	AIR	(A)(D)	NOTE 17	LIGHT GREEN	RED
SOS	SULFUR DIOXIDE SOLUTION	16	16	16	16	125	WATER	(A)	NOTE 17	YELLOW	BLACK
SOV	SULFUR DIOXIDE GAS UNDER VACUUM	16	16	16	16	15 IN Hg	VACUUM	(A)(E)	NOTE 17	LIGHT GREEN	YELLOW
SPD	SUMP PUMP DISCHARGE	2	26	2	26	50	WATER	(A)	NOTE 17	GREEN	WHITE
SS	SANITARY SEWER	--	12	--	12,21	NOTE 7	00	--	NOTE 17	BLACK	YELLOW
ST	STEAM (LOW PRESSURE TO 10 PSI)	29*	29*	29*	29*	125	WATER	(A)	NOTE 17	YELLOW	BLACK
SU	STRUCTURE UNDERDRAIN	--	--	--	20	NO	TEST	REQUIRED	NOTE 17	GREEN	WHITE
SUC	STRUCTURE UNDERDRAIN COLLECTOR	--	12	--	12,21	NOTE 6	WATER	(C)	NOTE 17	GREEN	WHITE
SW	FILTER SURFACE WASHWATER	14,16,18	8,14,15,16,18	2,16,18	2,8,15,16,18	125	WATER	(A)	NOTE 17	GREEN	WHITE
TPR	THICKENER PRESSURIZED RECYCLE	--	26	--	26	50	WATER	(A)	NOTE 17	NOTE 17	NOTE 17
TS	THICKENER SUBNATANT	--	26	--	26	50	WATER	(A)	NOTE 17	NOTE 17	NOTE 17
TSL	THICKENED SLUDGE	--	30	--	30	50	WATER	(A)	NOTE 17	BROWN	YELLOW
TSO	THICKENER SUBNATANT OVERFLOW	--	26	--	26	50	WATER	(A)	NOTE 17	YELLOW	BLACK
UW	UTILITY WATER (NON-POTABLE WATER)	2,24	2,11	2,24	2,11,19	125	WATER	2,11,24(A) 19(B)	NOTE 17	PURPLE	YELLOW
V	VACUUM	24	2	24	2	15 IN Hg	VACUUM	(A)(E)	NOTE 17	BLUE	WHITE
WAS	WASTE ACTIVATED SLUDGE	--	26	--	26	50	WATER	(A)	NOTE 17	BROWN	YELLOW
WLO	WASTE LUBE OIL	9	9	9	9	50	AIR	(A)(D)	NOTE 17	RED	YELLOW
WW	FILTER WASTE WASHWATER	--	8	--	8	NOTE 6	WATER	(A)	NOTE 17	YELLOW	BLACK

PIPING MATERIAL SCHEDULE (SEE NOTE 14)		
GROUP No.	PIPING (SEE NOTE 13)	FITTINGS
1	STEEL, ASTM A53, SCH 40, BLACK WELDED	2 1/2" AND SMALLER, MALLEABLE IRON, ANSI B16.3, THREADED, BANDED, BLACK, 15 PSI OR STEEL, ANSI B16.9, BUTT-WELDED, 3" AND LARGER, CAST IRON, ANSI B16.1, 125 PSI FLGD OR MECH CPLG
2	STEEL, ASTM A53, SCH 40, BLACK WELDED, GALVANIZED	2 1/2" AND SMALLER, MALLEABLE IRON, ANSI B16.3, THREADED, BANDED, GALVANIZED 150 PSI, 3" AND LARGER, CAST IRON, ANSI B16.1, 125 PSI FLGD OR MECH CPLG
3	STEEL, ASTM A106 OR A53, SCH 80, SEAMLESS, BLACK	FORGED STEEL, ANSI B16.11, SOCKET WELDED OR THREADED, BLACK, 2000 PSI, OR STEEL, ANSI B16.9, BUTT-WELDED, SCH 80
4	SAME AS GROUP 1	CAST IRON, ANSI B16.12, THREADED, DRAINAGE PATTERN
5	WELDED STEEL, AWWA C200, UNLINED	WELDED STEEL, FABRICATED, AWWA C200, UNLINED
6	STEEL, ASTM A106, OR A53, SCH 40, SEAMLESS, BLACK	STEEL, ANSI B16.9, BUTT-WELDED, CAST IRON, ANSI B16.1, 125 PSI FLGD, FORGED STEEL, SOCKET WELDED, ANSI B16.11, 2000 PSI OR STEEL, ANSI B16.5, 150 PSI FLGD
7	SAME AS GROUP NO. 2	MALLEABLE IRON, ANSI B16.3, THREADED, BANDED, GALVANIZED, 300 PSI
8	WELDED STEEL, AWWA C200	WELDED STEEL, AWWA C200, FABRICATED
9	SAME AS GROUP NO. 1	2 1/2" AND SMALLER, MALLEABLE IRON, ANSI B16.3, THREADED, BANDED, BLACK, 150 PSI, 3" AND LARGER, STEEL, ANSI B16.9, BUTT-WELDED
10	SAME AS GROUP NO. 3	1 1/4" AND SMALLER, FORGED STEEL, ANSI B16.11, THREADED OR SOCKET WELDED, BLACK, 3000 PSI, WITH FLGD AMMONIA UNIONS, 1 1/2" AND LARGER, STEEL, ANSI B16.9, BUTT-WELDED OR FLGD, SCH 80
11	DUCTILE IRON, ANSI A21.51, (AWWA C151), 150 PSI, BELL AND SPIGOT, MECH JTS, MECH CPLG, OR 125 PSI FLGD (TYPICAL SERVICE- WATER LINES)	DUCTILE IRON OR CAST IRON, ANSI A21.10, OR AWWA C110, BELL AND SPIGOT, MECH JTS, MECH CPLG, OR MECH JTS, 250 PSI, (PRESSURE RATING)12" AND SMALLER, 150 PSI, (PRESSURE RATING)14" AND LARGER, WITH 125 PSI ANSI B16.1 FLANGES
12	CAST IRON SOIL, ANSI/ASTM A-74, SERVICE WEIGHT, BELL AND SPIGOT OR HUBLESS. AT THE OPTION OF THE CONTRACTOR, DUCTILE IRON (GROUP NO 11) MAY BE SUBSTITUTED	CAST IRON SOIL, ANSI/ASTM A-74, SERVICE WEIGHT, BELL AND SPIGOT OR HUBLESS. AT THE OPTION OF THE CONTRACTOR, DUCTILE IRON (GROUP NO 11) MAY BE SUBSTITUTED
13	CORROSION RESISTANT (HIGH SILICON CONTENT) CAST IRON, SERVICE WEIGHT, BELL AND SPIGOT OR HUBLESS	CORROSION RESISTANT (HIGH SILICON CONTENT) CAST IRON, SERVICE WEIGHT, BELL AND SPIGOT OR HUBLESS
14	STAINLESS STEEL, TYPE 316, ASTM A 312, SCH 40S	STAINLESS STEEL, TYPE 316 ANSI B16.3, SCREWED, 150 PSI ANSI B16.9, BUTT-WELDED, SCH 40S, OR 150 PSI FLGD
15	STAINLESS STEEL, TYPE 316, ASTM A 312, SCH 10S	STAINLESS STEEL, TYPE 316 ANSI B16.9 BUTT-WELDED SCH 150 PSI FLGD
16	POLYVINYL CHLORIDE, SCH 80, NORMAL IMPACT, ASTM D1785	POLYVINYL CHLORIDE, SCH 80, NORMAL IMPACT, SOCKET SOLVENT WELD JTS, ASTM D2467
17	POLYPROPYLENE, ASTM D2146, SCH 40, WITH HEAT FUSED JTS	POLYPROPYLENE, SCH 40, DRAINAGE TYPE WITH HEAT FUSED SOCKET JTS
18	FIBERGLASS REINFORCED PLASTIC, ASTM D2998, FILAMENT-WOUND, SOCKET AND SPIGOT ENDS, ADHESIVE BONDED, SEE SPECIFICATION 15860	FIBERGLASS REINFORCED PLASTIC, FILAMENT-WOUND, SOCKET ENDS, ADHESIVE BONDED, OR FIBERGLASS FLGD
19	POLYVINYL CHLORIDE PRESSURE PIPE ASTM D2241 WITH BELL AND SPIGOT JTS	CAST IRON, 150 PSI, FOR POLYVINYL CHLORIDE PIPE, AWWA C110 CEMENT MORTAR LINED, AWWA C104
20	VITRIFIED CLAY, PERFORATED, ASTM C 700, EXTRA STRENGTH, FLEXIBLE COMPRESSION JTS FOR BELL AND SPIGOT PIPE OR PLAIN END WITH MECH COMPRESSION JTS	VITRIFIED CLAY, ASTM C700, FLEXIBLE JTS FOR BELL AND SPIGOT PIPE OR PLAIN END WITH MECH COMPRESSION JTS
21	VITRIFIED CLAY, ASTM C700, EXTRA STRENGTH, FLEXIBLE COMPRESSION JTS FOR BELL AND SPIGOT PIPE OR PLAIN END WITH MECH COMPRESSION JTS	VITRIFIED CLAY, ASTM C700, FLEXIBLE JTS FOR BELL AND SPIGOT PIPE OR PLAIN END WITH MECH COMPRESSION JTS
22	REINFORCED CONCRETE, ASTM C78, T&G JTS. (TYPICAL SERVICE-CULVERTS)	SAME AS GROUP NO. 8
23	TEMPERED GLASS (ARMORED WHERE BURIED) ANSI/ASTM C599	TEMPERED GLASS DRAINAGE TYPE WITH COMPRESSION COUPLING & TEFLON JTS, ANSI/ASTM C599
24	COPPER, ASTM B88, TYPE K, SOFT TEMPERED WHERE BURIED, HARD TEMPERED WHERE EXPOSED	EXISTING
25	STEEL, ASTM A106 OR A53, SCH 40, SEAMLESS, BLACK, SARAN OR POLYPROPYLENE-LINED	STEEL, ANSI B16.5, 150 PSI FLGD, SARAN OR POLYPROPYLENE-LINED
26	SAME AS GROUP NO. 11 (TYPICAL SERVICE-SLUDGE AND SEWAGE LINES)	SAME AS GROUP NO. 11
27	POLYVINYL CHLORIDE GRAVITY SEWER PIPE, ASTM D3034, BELL AND SPIGOT	POLYVINYL CHLORIDE, ANSI/ASTM D3034, BELL AND/OR SPIGOT
28	REINFORCED CONCRETE, AWWA C302, CLASS-SEE DRAWINGS. (TYPICAL SERVICE-PRESSURE PIPELINES)	SAME AS GROUP NO. 8
29	SAME AS GROUP NO.1	2" AND SMALLER, MALLEABLE IRON, ANSI B16.3, THREADED, BANDED, BLACK, 150 PSI, 2 1/2" AND LARGER, STEEL ANSI B16.9, BUTT-WELDED
30	SAME AS GROUP NO. 11, GLASS-LINED OR STEEL ASTM A53, SCH 40, GLASS LINED	SAME AS GROUP NO. 11, GLASS-LINED OR STEEL, ANSI B16.9, SCH 40, GROOVED WITH MECH CPLG, GLASS-LINED
31	2-2 1/4" AND SMALLER, STEEL, ASTM A106 OR A53, SCH 80, SEAMLESS, BLACK, 3" AND LARGER DUCTILE IRON, ANSI A21.51 (AWWA C151), OR CAST IRON ANSI A21.6 OR 21.8 MECH CPLG OR 125 PSI FLGD	2 3/4" AND SMALLER, FORGED STEEL, ANSI B16.11, SOCKET WELDED OR THREADED, BLACK 2000 PSI, OR STEEL ANSI B16.9 BUTT-WELDED SCH 80, 3" AND LARGER, DUCTILE IRON OR CAST IRON, ANSI A21.20 AWWA C110, MECH COUPLING OR 125 PSI FLGD
32	12" AND SMALLER, AWWA C-900 WITH RESTRAINED JOINTS, DR 18, 14" AND LARGER, AWWA C-905 WITH RESTRAINED JOINTS, DR 25	SAME AS GROUP NO. 11
33	HIGH DENSITY POLYETHYLENE, DUCTILE IRON PIPE (DIPS), DR 11 AWWA C-906, FUSION BUTT WELDED JOINTS AND FULLY RESTRAINED FITINGS	SAME AS GROUP NO. 11
34	POLYETHYLENE SERVICE TUBE, PE 4710, COPPER TUBE SIZE ASTM, D2737, PRESSURE CLASS 250, DR9	--
35	CHLORINATED POLYVINYL CHLORIDE PRESSURE PIPE, ASTM F441, SCHEDULE 40 WITH SOLVENT WELDED JOINTS PER ASTM F493, SCREWED OR FLANGED JOINTS	SOLVENT WELDED: ASTM F439, SCHEDULE 80, THREADED FITTINGS: ASTM F437, SCHEDULE 80, FLANGED FITTINGS: ANSI / ASME B16.5
36	REINFORCED CONCRETE PIPE ARCH, LDOTD AML, ASTM C506 AS MODIFIED, RUBBER GASKETED JOINTS	--
37	PLASTIC DRAINAGE PIPE, RIBBED POLYVINYL CHLORIDE DRAINAGE PIPE, ASTM F794 OR F949 SERIES 46 WITH UV INHIBITORS, RUBBER GASKETED JOINTS	--
38	BITUMINOUS COATED CORRUGATED STEEL PIPE AND PIPE ARCH, A	



PROJECT OVERVIEW MAP

SCALE: N.T.S.



GENERAL NOTES:

1. AERIAL PHOTOGRAPH COURTESY OF AUTOCAD GEOLOCATION MAPS.
2. AERIAL PHOTOGRAPH FOR REFERENCE ONLY. SEE DRAWINGS FOR FURTHER GEOMETRIC LAYOUT.

NOTES BY SYMBOL:

- ⬡ A - EXISTING WEIR (TO REMAIN)
- ⬡ B - CONFLUENCE OF NEW RIVER & SMITH BAYOU
- ⬡ C - PRIVATE WOODEN BRIDGE
- ⬡ D - BON TERRE BOULEVARD BRIDGE
- ⬡ E - EXISTING NEW RIVER CANAL (MODIFICATIONS TO APPROXIMATELY 2.7 MILES OF CANAL, FROM EXISTING WEIR STRUCTURE TO CONFLUENCE OF SMITH BAYOU AND NEW RIVER)
- ⬡ F - N. MARCHAND AVENUE BRIDGE
- ⬡ G - BURNSIDE ROAD BRIDGE
- ⬡ H - N. BRYAN AVENUE BRIDGE
- ⬡ I - KANSAS CITY SOUTHERN RAILROAD BRIDGE
- ⬡ J - OFFICE DEPOT ACCESS BRIDGE
- ⬡ K - US 61 BRIDGES
- ⬡ L - EXISTING WEIR TO BE REMOVED

LEGEND:

- 1-C1 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 15+00.00 - STA. 20+00.00
- 1-C2 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 20+00.00 - STA. 25+00.00
- 1-C3 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 25+00.00 - STA. 30+00.00
- 1-C4 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 30+00.00 - STA. 35+00.00
- 1-C5 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 35+00.00 - STA. 40+00.00
- 1-C6 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 40+00.00 - STA. 45+00.00
- 1-C7 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 45+00.00 - STA. 50+00.00
- 1-C8 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 50+00.00 - STA. 55+00.00
- 1-C9 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 55+00.00 - STA. 60+00.00
- 1-C10 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 60+00.00 - STA. 65+00.00
- 1-C11 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 65+00.00 - STA. 70+00.00
- 1-C12 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 70+00.00 - STA. 75+00.00
- 1-C13 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 75+00.00 - STA. 80+00.00
- 1-C14 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 80+00.00 - STA. 85+00.00
- 1-C15 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 85+00.00 - STA. 90+00.00
- 1-C16 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 90+00.00 - STA. 95+00.00
- 1-C17 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 95+00.00 - STA. 100+00.00
- 1-C18 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 100+00.00 - STA. 105+00.00
- 1-C19 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 105+00.00 - STA. 110+00.00
- 1-C20 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 110+00.00 - STA. 115+00.00
- 1-C21 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 115+00.00 - STA. 120+00.00
- 1-C22 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 120+00.00 - STA. 125+00.00
- 1-C23 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 125+00.00 - STA. 130+00.00
- 1-C24 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 130+00.00 - STA. 135+00.00
- 1-C25 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 135+00.00 - STA. 140+00.00
- 1-C26 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 140+00.00 - STA. 145+00.00
- 1-C27 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 145+00.00 - STA. 150+00.00
- 1-C28 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 150+00.00 - STA. 155+00.00
- 1-C29 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 155+00.00 - STA. 160+00.00
- 1-C30 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 160+00.00 - STA. 163+22.99
- 2-C1 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 200+00.00 - STA. 205+00.00
- 2-C2 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 205+00.00 - STA. 210+00.00
- 2-C3 SHEET DEPICTING WORK TO BE DONE BETWEEN STA. 210+00.00 - STA. 211+42.97



SUBMITTED BY:
ANDRE E. FORD, E.I.
PROJECT MANAGER

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL



MARK	DESCRIPTION	DATE	BY	CHKD.
-	RELEASED FOR BIDS & CONSTRUCTION	04/20/19	ARF	DAM

DESIGNED BY:	DAM/ARF	DRAWN BY:	ARF/RMM	CHECKED BY:	DAM
DATE:	APRIL, 2019	DETAILED BY:	ARF/RMM	HDC PROJECT NO.	2017-14

NEW RIVER CHANNEL IMPROVEMENTS
LOUISIANA
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
PROJECT OVERVIEW MAP

SHEET ID
G7

SHEET SET
8 OF **82**

SUMMARY OF ESTIMATED QUANTITIES

REF. NO.	DESCRIPTION	UNIT	QUANTITY	REMARKS
1	MOBILIZATION	LUMP SUM	1	
2	TEMPORARY ENVIRONMENTAL CONTROLS	LUMP SUM	1	
3	TEMPORARY TRAFFIC CONTROL	LUMP SUM	1	
4	CONSTRUCTION LAYOUT	LUMP SUM	1	
5	SITE PREPARATION	LUMP SUM	1	
6	REMOVAL OF STRUCTIONS AND OBSTRUCTIONS	LUMP SUM	1	
7	DRAINAGE EXCAVATION	CUBIC YARD	80000	
8	EMBANKMENT	CUBIC YARD	20000	
9	ARBORIST SERVICES	LUMP SUM	1	
10	TREE TRIMMING	LUMP SUM	1	
11	15" PLASTIC PIPE STORM DRAIN, OUTFALL	LINEAR FOOT	360	
12	18" PLASTIC PIPE STORM DRAIN, OUTFALL	LINEAR FOOT	240	
13	24" PLASTIC PIPE STORM DRAIN, OUTFALL	LINEAR FOOT	260	
14	36" PLASTIC PIPE STORM DRAIN, OUTFALL	LINEAR FOOT	20	
15	48" PLASTIC PIPE STORM DRAIN, OUTFALL	LINEAR FOOT	40	
16	48" RCP STORM DRAIN, OUTFALL	LINEAR FOOT	40	
17	MODIFIED CB-01 DRAINAGE STRUCTURE	EACH	25	
18	MODIFIED CB-02 DRAINAGE STRUCTURE	EACH	4	
19	BEDDING MATERIAL	CUBIC YARD	200	
20	RIP RAP (30 LB CLASS) (PIPES)	SQUARE YARD	900	
21	RIP RAP (30 LB CLASS) (BRIDGES)	SQUARE YARD	4200	
22	RIP RAP (10 LB CLASS) (RAILROAD BRIDGE)	SQUARE YARD	350	
23	GEOTEXTILE FABRIC	SQUARE YARD	5800	
24	TYPE 3 OBJECT MARKERS AND POSTS	EACH	58	
25	NO PARKING SIGNS AND POSTS	EACH	2	
26	MOBILIZATION COST FOR STEEL SHEET PILE DRIVING	LUMP SUM	1	
27	STEEL SHEET PILE WALL	SQUARE FOOT	9000	
28	INITIAL INSTALLATION AND FINAL REMOVAL OF TEMPORARY DAMS	LUMP SUM	1	
29	TEMPORARY DEWATERING DAM REMOVAL AND REPLACEMENT	EACH	1	
30	FURNISH AND INSTALL 18" FLAP GATE FOR DRAIN PIPE OUTFALL	EACH	2	
31	FURNISH AND INSTALL 24" FLAP GATE FOR DRAIN PIPE OUTFALL	EACH	1	
32	REMOVE AND RE-INSTALL 48" FLAP GATE FOR DRAIN PIPE OUTFALL	EACH	2	
33	AGGREGATE SURFACE COURSE	CUBIC YARD	50	
34	HYDRO-SEEDING	LUMP SUM	1	

GENERAL NOTES:

- 1) BEDDING AND BACKFILL FOR STORM DRAIN PIPE AND STRUCTURES SHALL BE PER SHEET BM-01.
- 2) OUTFALL PROTECTION SHALL BE PER SHEET BM-02.
- 3) DRAINAGE STRUCTURES SHALL BE PER SHEET CB-01 AND SHEET CB-02 RESPECTIVELY.

STRUCTURE NUMBER	STATION	SIDE OF C/L	DESCRIPTION	TYPE	15" PLASTIC						CATCH BASINS						BEDDING MATERIAL (6" THICK) CUBIC YARDS
					15" LIN. FT.	18" LIN. FT.	24" LIN. FT.	36" LIN. FT.	48" LIN. FT.	48" RCP LIN. FT.	CB-01 EACH	CB-02 EACH					
101	18+19.78	R	STORM DRAIN PIPE, 24"	SDP			43.0										8.0
102	18+19.78	R	STORM DRAIN PIPE, 24"	SDP			43.0										8.0
103	18+19.78	R	CB-02 MODIFIED	CB-02									1.0				1.6
104	19+10.66	R	STORM DRAIN PIPE, 24"	SDP			34.0										6.5
105	19+10.66	R	CB-01 MODIFIED	CB-01								1.0					0.6
106	21+92.11	R	STORM DRAIN PIPE, 15"	SDP	32.0												5.0
107	21+92.11	R	CB-01 MODIFIED	CB-01								1.0					0.6
108	23+88.19	R	STORM DRAIN PIPE, 15"	SDP	28.0												4.4
109	23+88.19	R	CB-01 MODIFIED	CB-01								1.0					0.6
110	25+95.44	L	STORM DRAIN PIPE, 15"	SDP	28.0												4.4
111	25+95.44	L	CB-01 MODIFIED	CB-01								1.0					0.6
112	26+80.12	R	STORM DRAIN PIPE, 15"	SDP	24.0												3.8
113	26+80.12	R	CB-01 MODIFIED	CB-01								1.0					0.6
114	28+18.32	R	STORM DRAIN PIPE, 15"	SDP	15.0												2.4
115	28+18.32	R	CB-01 MODIFIED	CB-01								1.0					0.6
116	28+60.40	R	STORM DRAIN PIPE, 24"	SDP			15.0										2.8
117	28+60.40	R	CB-01 MODIFIED	CB-01								1.0					0.6
118	32+69.08	R	STORM DRAIN PIPE, 24"	SDP			24.0										4.5
119	32+69.08	R	CB-01 MODIFIED	CB-01								1.0					0.6
120	33+09.17	L	STORM DRAIN PIPE, 15"	SDP	43.0												6.8
121	33+09.17	L	CB-01 MODIFIED	CB-01								1.0					0.6
122	33+69.99	L	STORM DRAIN PIPE, 36"	SDP				15.0									3.4
123	33+69.99	L	CB-02 MODIFIED	CB-01									1.0				1.6
124	36+80.08	R	STORM DRAIN PIPE, 24"	SDP			30.0										5.6
125	36+80.08	R	CB-01 MODIFIED	CB-01								1.0					0.6
126	44+38.81	R	STORM DRAIN PIPE, 15"	SDP	28.0												4.4
127	44+38.81	R	CB-01 MODIFIED	CB-01								1.0					0.6
128	47+31.38	R	STORM DRAIN PIPE, 15"	SDP	29.0												4.6
129	47+31.38	R	CB-01 MODIFIED	CB-01								1.0					0.6
130	51+41.73	R	STORM DRAIN PIPE, 48"	SDP					27.0								7.1
131	51+41.73	R	CB-02 MODIFIED	CB-02									1.0				1.6
132	58+72.36	R	STORM DRAIN PIPE, 15"	SDP	38.0												6.0
133	58+72.36	R	CB-01 MODIFIED	CB-01								1.0					0.6
134	63+98.27	L	STORM DRAIN PIPE, 18"	SDP		34.0											5.6
135	63+98.27	L	CB-01 MODIFIED	CB-01								1.0					0.6
136	64+41.78	R	STORM DRAIN PIPE, 48"	SDP									1.0				4.3
137	64+41.78	R	CB-02 MODIFIED	CB-02									1.0				1.6
138	64+47.53	R	STORM DRAIN PIPE, 48"	SDP									16.0				4.3
139	66+96.57	L	STORM DRAIN PIPE, 18"	SDP		36.0											6.0
140	66+96.57	L	CB-01 MODIFIED	CB-01								1.0					0.6
141	69+63.01	L	STORM DRAIN PIPE, 15"	SDP	23.0												3.6
142	69+63.01	L	CB-01 MODIFIED	CB-01								1.0					0.6
143	71+77.42	L	STORM DRAIN PIPE, 18"	SDP		43.0											7.3
144	71+77.42	L	CB-01 MODIFIED	CB-01								1.0					0.6
145	78+42.29	R	STORM DRAIN PIPE, 18"	SDP		32.0											5.4
146	78+42.29	R	CB-01 MODIFIED	CB-01								1.0					0.6
147	87+18.76	R	STORM DRAIN PIPE, 15"	SDP	35.0												5.5
148	87+18.76	R	CB-01 MODIFIED	CB-01								1.0					0.6
149	89+83.87	R	STORM DRAIN PIPE, 24"	SDP			21.0										3.9
150	89+83.87	R	CB-01 MODIFIED	CB-01								1.0					0.6
151	101+61.23	R	STORM DRAIN PIPE, 18"	SDP		22.0											3.8
152	101+61.23	R	CB-01 MODIFIED	CB-01								1.0					0.6
153	104+65.41	L	STORM DRAIN PIPE, 18"	SDP		40.0											6.7
154	104+65.41	L	CB-01 MODIFIED	CB-01								1.0					0.6
155	110+36.89	L	STORM DRAIN PIPE, 15"	SDP	33.0												5.2
156	110+36.89	L	CB-01 MODIFIED	CB-01								1.0					0.6
157	112+25.92	R	STORM DRAIN PIPE, 18"	SDP		34.0											5.6
158	112+25.92	R	CB-01 MODIFIED	CB-01								1.0					0.6
159	150+17.96	R	STORM DRAIN PIPE, 24"	SDP			37.0										6.8
160	150+17.96	R	CB-01 MODIFIED	CB-01								1.0					0.6
PROJECT TOTALS					356.0	240.0	246.0	15.0	27.0	32.0	25.0	4.0					183.1

SUMMARY OF DRAINAGE STRUCTURES

DATE: APRIL, 2019
DESIGNED BY: DAM/ARF
DRAWN BY: ARF/RMM
CHECKED BY: DAM
HDC PROJECT NO. 2017-14

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DRAWN BY: ARF/RMM
CHECKED BY: DAM

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DRAWN BY: ARF/RMM
CHECKED BY: DAM
HDC PROJECT NO. 2017-14

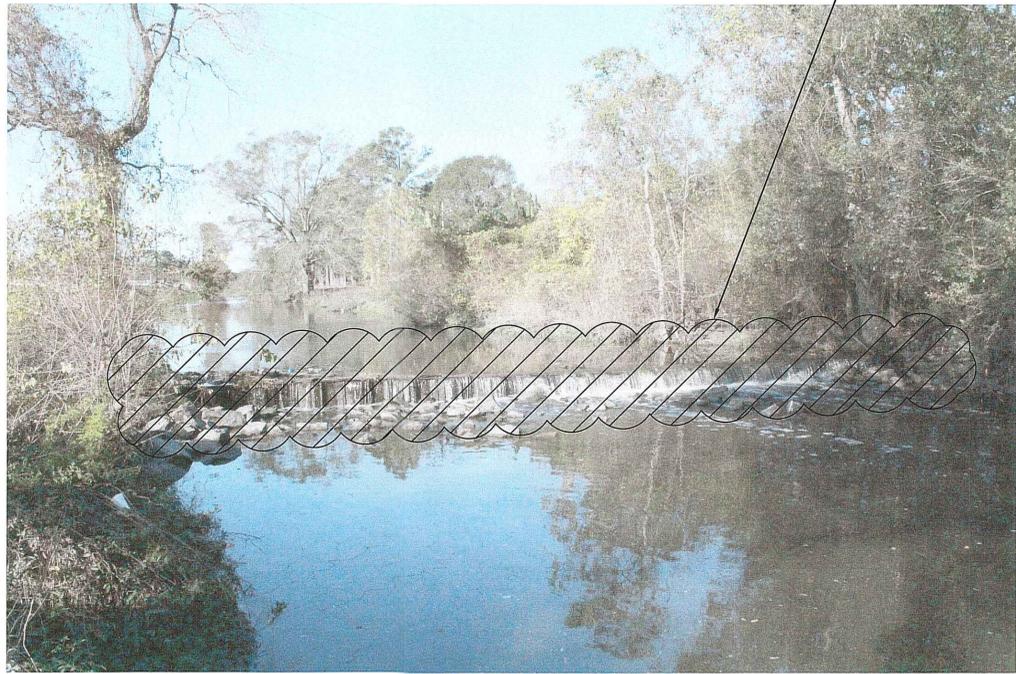
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DRAWN BY: ARF/RMM
CHECKED BY: DAM

DATE: APRIL, 2019
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HDC PROJECT NO. 2017-14

DESIGNED BY: DAM/ARF
DRAWN BY: ARF/RMM
CHECKED BY: DAM



DEMOLITION PHOTO "D-01"

SCALE: N.T.S.



DEMOLITION PHOTO "D-02"

SCALE: N.T.S.



DEMOLITION PHOTO "D-03"

SCALE: N.T.S.



DEMOLITION PHOTO "D-04"

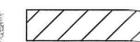
SCALE: N.T.S.



DEMOLITION PHOTO "D-05"

SCALE: N.T.S.

LEGEND:

 DEMOLISH AND DISPOSE OF AS INDICATED BELOW AND IN ACCORDANCE WITH SECTION 02202 - DEMOLITION AND REMOVAL.

SCOPE OF DEMOLITION:

- D1** DEMOLISH AND DISPOSE OF EXISTING NEW RIVER CONTROL STRUCTURE (SHEET PILE WEIR) PER SECTION 02202 AND DELIVER TO PARISH SPECIFIED LOCATION, TBD. LOCATION OF WEIR: N=631910.6338, E=3414937.3407
- D2** TREE LIMBS TO BE TRIMMED AND/OR REMOVED FROM TREE LOCATED AT STA. 80+66.07, OFFSET 39.80 RT, BY THE CONTRACTOR'S LICENSED ARBORIST PER THE SPECIAL PROVISIONS. PRECISE LIMITS OF REMOVAL TO BE VERIFIED BY THE CONTRACTOR'S LICENSED ARBORIST.
- D3** DEMOLISH AND DISPOSE OF CONCRETE WALL LOCATED AT STA. 51+41.73, OFFSET 46.98 RT. SALVAGE FLAP GATE AND DELIVER TO PARISH-SPECIFIED LOCATION.
- D4** REMOVE EXISTING FLAP GATES LOCATED AT STA. 64+42.19, OFFSET 71.76 RT, AND INSTALL ON REQUIRED PIPE EXTENSION. EXTEND WIRE ROPE TO NEW GATE LOCATION.



SUBMITTED BY:
ANDRE R. FORD, P.E.
PROJECT MANAGER

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL

LICENSE NO. 37832



MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

DESIGNED BY: DAM/ARF

DRAWN BY: ARF/RMM

CHECKED BY: DAM

DATE: APRIL, 2019

DETAILED BY: ARF/RMM

HDC PROJECT NO: 2017-14

NEW RIVER CHANNEL IMPROVEMENTS

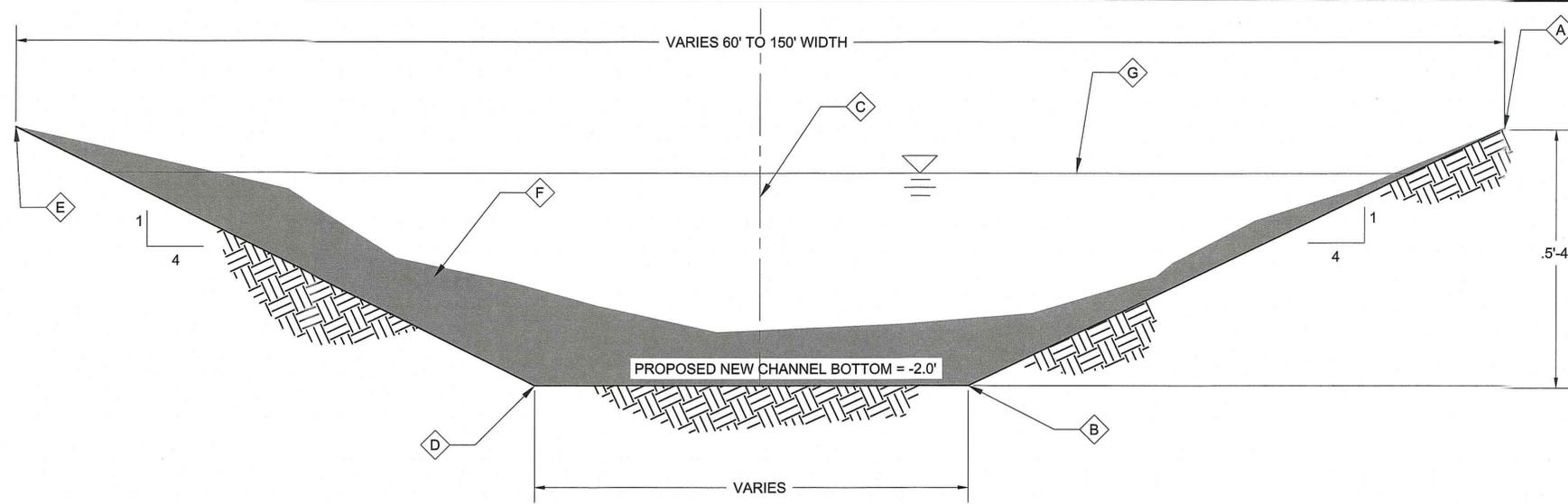
LOUISIANA

GONZALES

EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1

42077 CHURCHPOINT ROAD, GONZALES, LA 70737

DEMOLITION PHOTOS



PROPOSED TYPICAL CROSS SECTION
SCALE: N.T.S.

GENERAL NOTES:

- SEE CROSS SECTIONS, SHEETS C2 THROUGH C32 FOR ADDITIONAL INFORMATION
- SEE PLAN AND PROFILE, SHEETS 1-C1 THROUGH 1-C30, AND 2-C1 - 2-C3 FOR ADDITIONAL INFORMATION

NOTES BY SYMBOL:

- ◊ A - EXISTING/PROPOSED TOP OF BANK
- ◊ B - BOTTOM OF CHANNEL (R.T.)
- ◊ C - SURVEYED CL OF NEW RIVER CHANNEL
- ◊ D - BOTTOM OF CHANNEL (L.T.)
- ◊ E - EXISTING/PROPOSED TOP OF BANK
- ◊ F - AREA CUT (VARIES)
- ◊ G - NORMAL W.S.E. (+ 2.0 EL(±))



SUBMITTED BY:
ANDRE R. FORD, P.E.
PROJECT MANAGER
LICENSE NO. 37832

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL
LICENSE NO. 37832



DATE	DESCRIPTION	MARK	DATE	REVISION RECORD

OBJECT MARKER GENERAL NOTES:

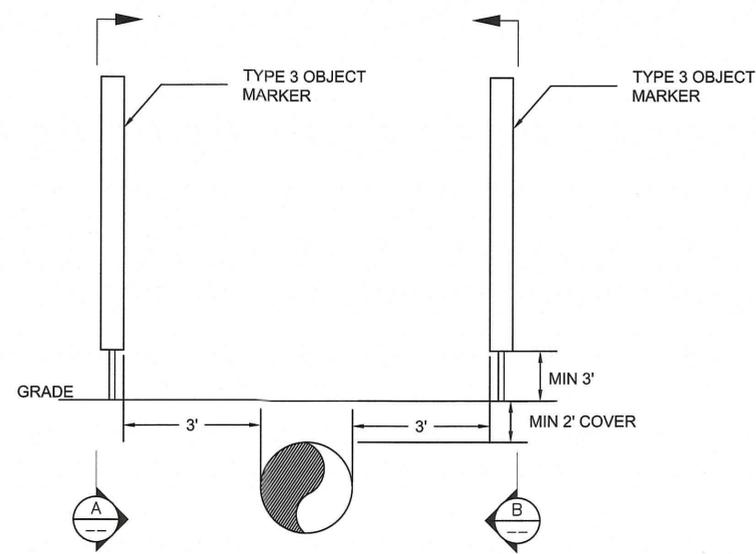
- THE MARKINGS ON THE OBJECT MARKERS SHALL BE DIAGONAL, BLACK AND YELLOW STRIPS. THE SHEETING SHALL BE IN ACCORDANCE WITH SECTION 02729.
- POST PENETRATION IN GROUND SHALL BE A MINIMUM OF 3'.
- WHEN USED FOR MARKING OBJECTS IN THE ROADWAY OR OBJECTS THAT ARE 8' OR LESS FROM THE SHOULDER OR CURB, THE MOUNTING HEIGHT TO THE BOTTOM OF THE OBJECT MARKER SHOULD BE AT LEAST 4' ABOVE THE SURFACE OF THE NEAREST TRAFFIC LANE.
- WHEN USED TO MARK OBJECTS MORE THAN 8' FROM THE SHOULDER OR CURB, THE MOUNTING HEIGHT TO THE BOTTOM OF THE OBJECT MARKER SHOULD BE AT LEAST 4' ABOVE THE GROUND.
- SEE PLANS FOR LOCATIONS.

DESIGNED BY:	DRAWN BY:	CHECKED BY:	DATE:
DAM/ARF	ARF/RMM	DAM	APRIL, 2019

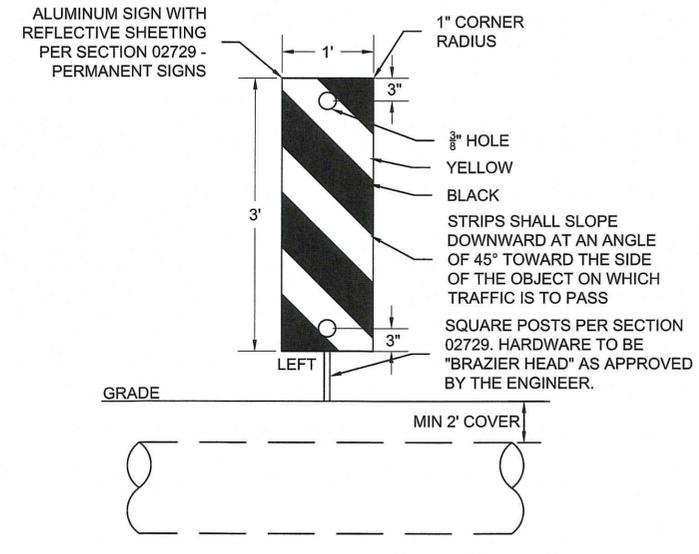
LOUISIANA
NEW RIVER CHANNEL IMPROVEMENTS
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
CIVIL DETAILS

NO PARKING MARKER GENERAL NOTES:

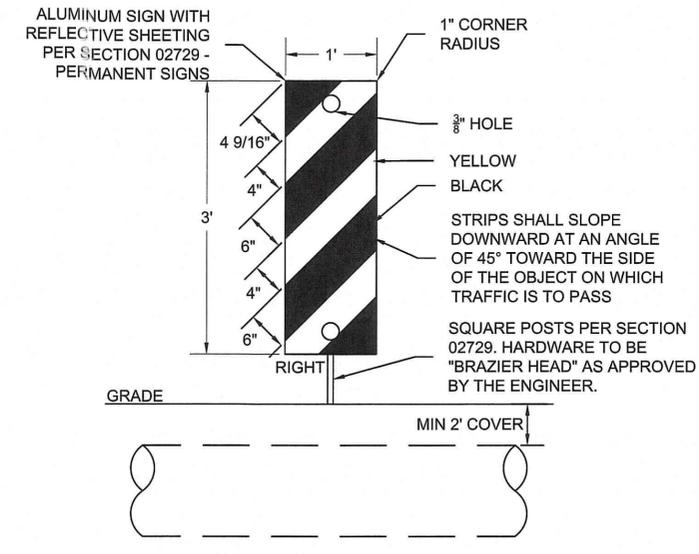
- THE SIGN SHALL BE MUTCD R7-1 IN ACCORDANCE WITH SPECIFICATIONS SECTION 02729.
- POST PENETRATION IN GROUND SHALL BE A MINIMUM OF 8'.
- WHEN USED, MARKERS SHALL BE PLACED AT A MINIMUM OF 12' FROM THE ROADWAY AND 5' FROM THE EDGE OF AGGREGATE SURFACE COURSE (BOAT LAUNCH DRIVE AREA).
- SEE PLANS FOR LOCATIONS.



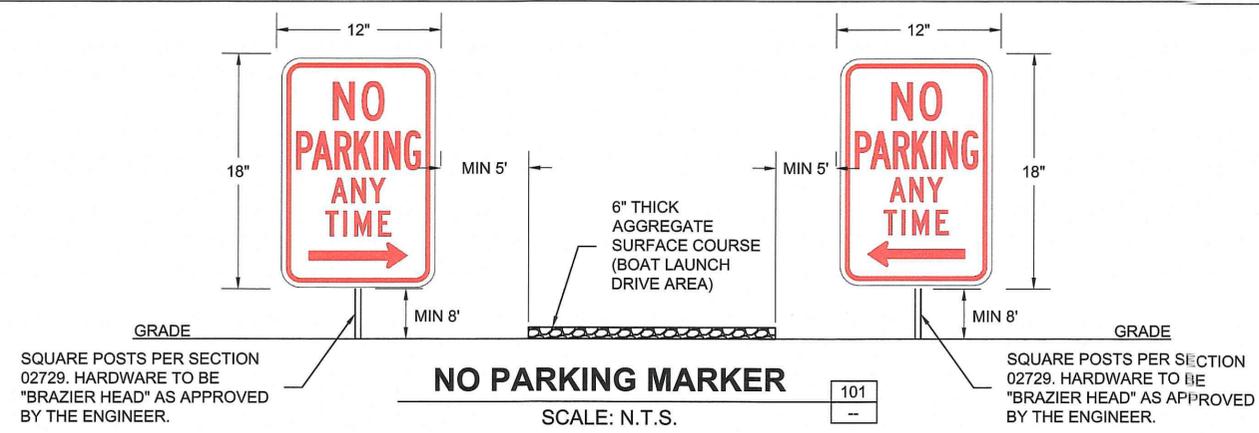
TYPE 3 OBJECT MARKER INSTALLATION



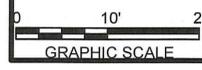
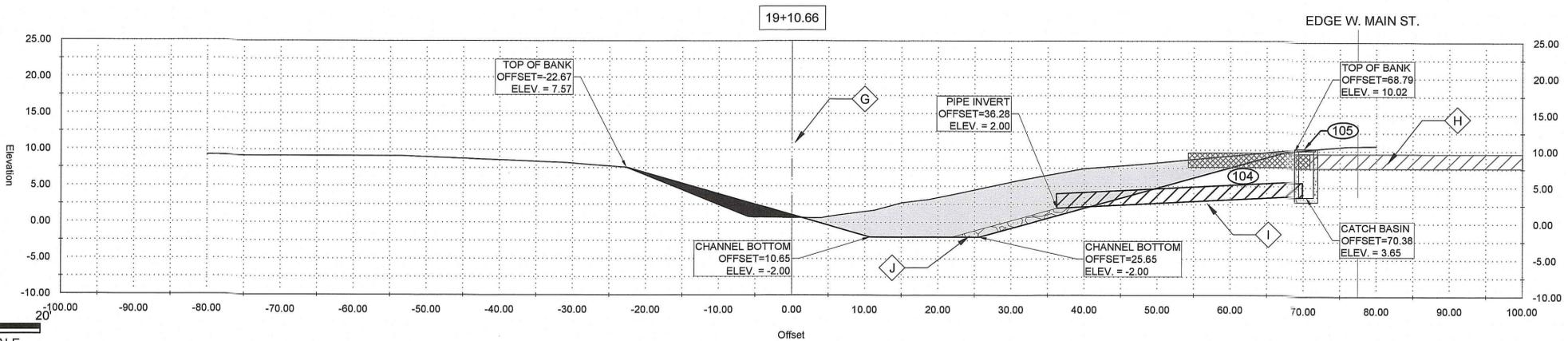
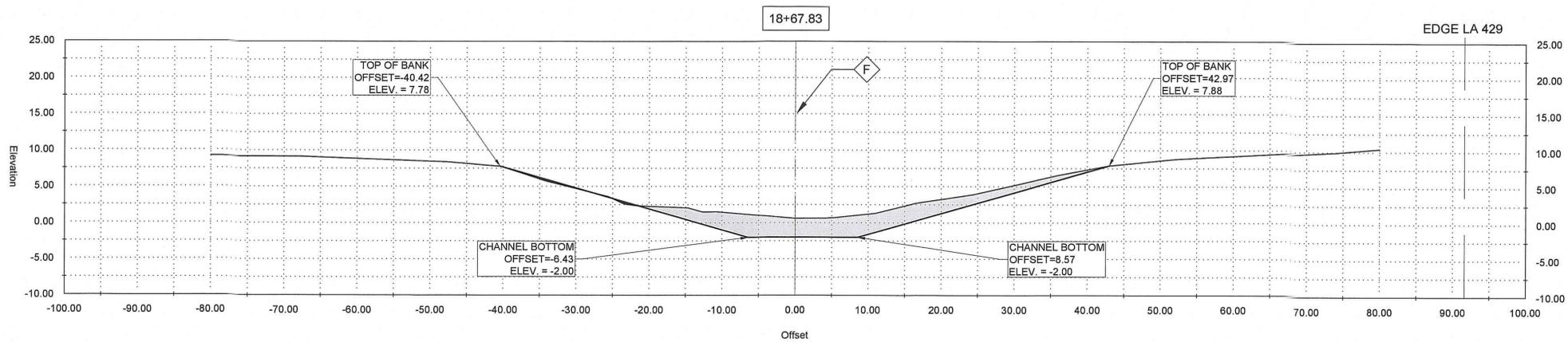
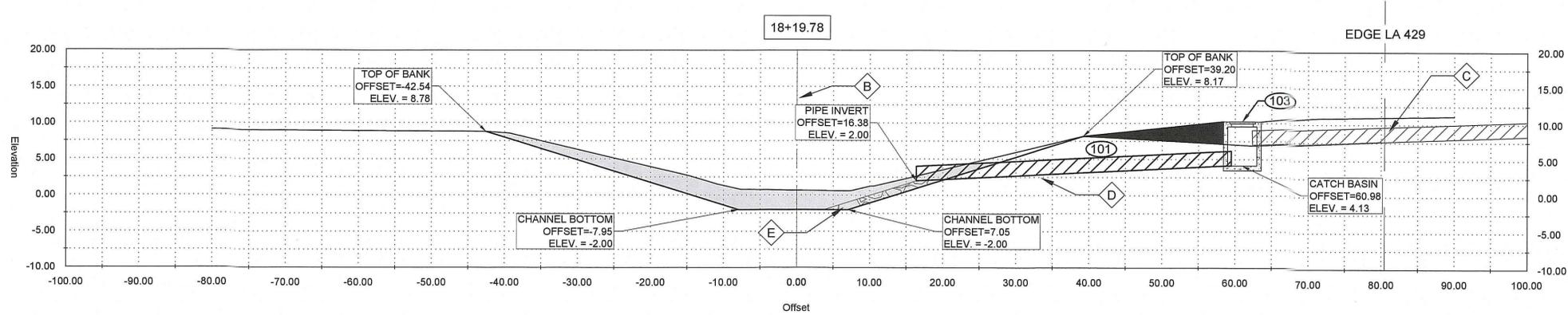
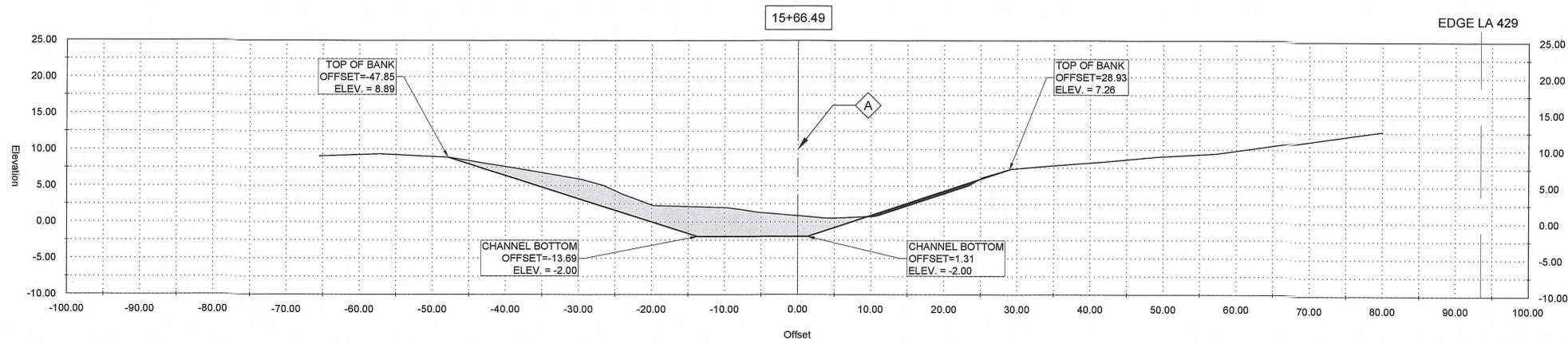
TYPE 3 OBJECT MARKER
SCALE: N.T.S.



ELEVATION B
SCALE: N.T.S.



NO PARKING MARKER
SCALE: N.T.S.



GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{A} - SURVEYED \mathcal{C}

AREA DRAINAGE EXCAVATION: 14.81 SY
 AREA EMBANKMENT: 0.54 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{B} - SURVEYED \mathcal{C}

\mathcal{C} - EXISTING 24" RCPA

\mathcal{D} - 24" PLASTIC PIPE EXTENSION 24" SDR (37)

\mathcal{E} - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 14.72 SY
 AREA EMBANKMENT: 3.28 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN

- EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{F} - SURVEYED \mathcal{C}

AREA DRAINAGE EXCAVATION: 12.89 SY
 AREA EMBANKMENT: 0.22 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{G} - SURVEYED \mathcal{C}

\mathcal{H} - EXISTING 24" RCPA

\mathcal{I} - 24" PLASTIC PIPE EXTENSION 24" SDR (37)

\mathcal{J} - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 28.48 SY
 AREA EMBANKMENT: 2.65 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN

- EXISTING DRAIN PIPE TO BE REMOVED



SUBMITTED BY:
 ANDRE R. FORD, E.L.
 PROJECT MANAGER
 LICENSE NO. 37832

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 37832



MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/20/19	ARF/RMM	DAM

DESIGNED BY:	DRAWN BY:	CHECKED BY:
DAM/ARF	ARF/RMM	DAM

DATE:	DETAILED BY:	HDC PROJECT NO.
APRIL, 2019	ARF/RMM	2017-14

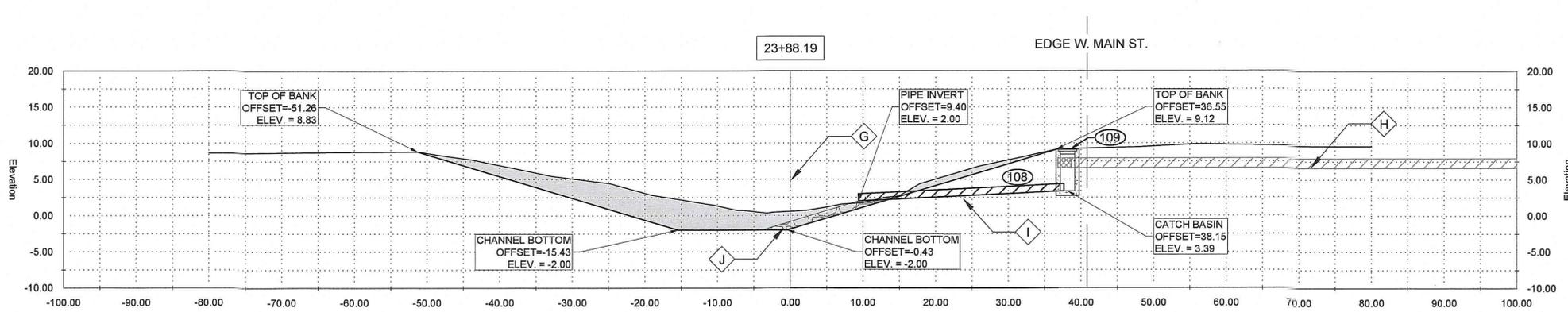
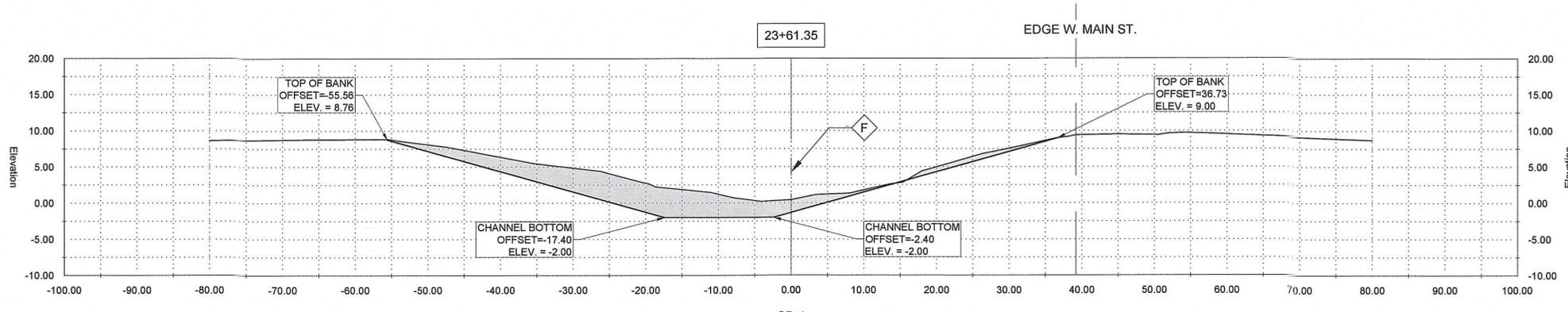
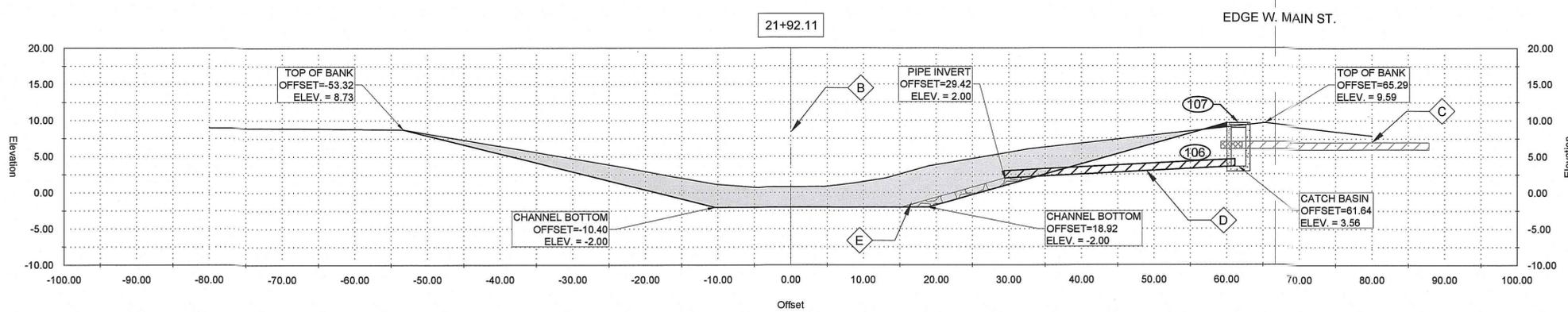
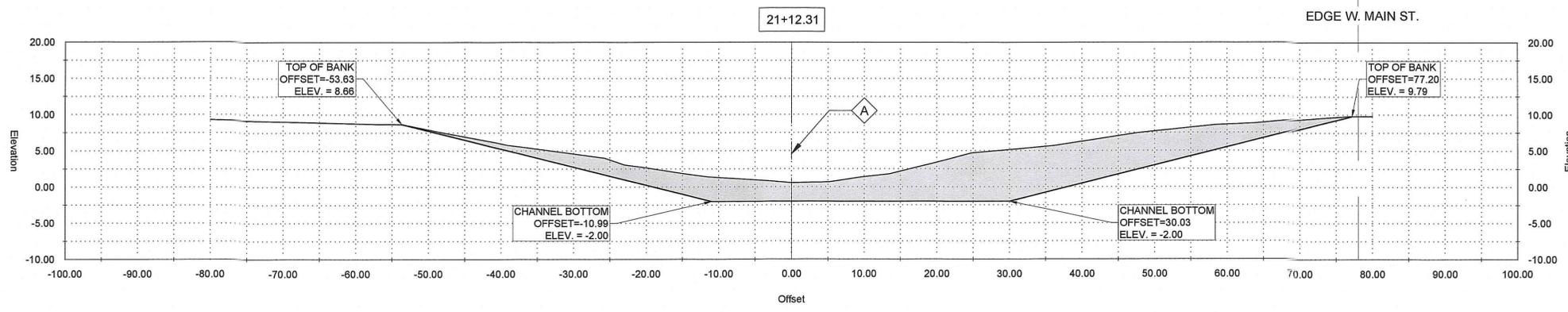
LOUISIANA
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737

NEW RIVER CHANNEL IMPROVEMENTS
 GONZALES

CROSS SECTIONS

SHEET ID
C2

SHEET SET
13 OF **82**



GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ℓ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 \diamond A - SURVEYED ℓ

AREA DRAINAGE EXCAVATION: 46.06 SY
 AREA EMBANKMENT: 0.00 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ℓ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 \diamond B - SURVEYED ℓ
 \diamond C - EXISTING 12" RCP
 \diamond D - 15" PLASTIC PIPE EXTENSION 15" SDR (37)
 \diamond E - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 31.84 SY
 AREA EMBANKMENT: 0.00 SY

LEGEND:
 - EXISTING DRAIN PIPE TO REMAIN
 - EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ℓ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 \diamond F - SURVEYED ℓ

AREA DRAINAGE EXCAVATION: 18.36 SY
 AREA EMBANKMENT: 0.01 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ℓ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 \diamond G - SURVEYED ℓ
 \diamond H - EXISTING 12" RCP
 \diamond I - 15" PLASTIC PIPE EXTENSION 15" SDR (37)
 \diamond J - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 17.69 SY
 AREA EMBANKMENT: 0.00 SY

LEGEND:
 - EXISTING DRAIN PIPE TO REMAIN
 - EXISTING DRAIN PIPE TO BE REMOVED

SUBMITTED BY: ANDRE R. FORD, E.L. PROJECT MANAGER
 LICENSE NO. _____

SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL
 LICENSE NO. 37832

HPC H. Davis Cole & Associates, LLC
 Consulting Engineers
 NEW ORLEANS, LA

MARK	DESCRIPTION	DATE	BY	CHKD.

REVISION RECORD

DESIGNED BY: DAM/ARF
 DRAWN BY: AR/RMM
 CHECKED BY: DAM

DATE: APRIL, 2019
 DETAILED BY: AR/RMM
 HDC PROJECT NO.: 2017-14

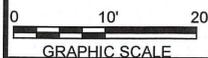
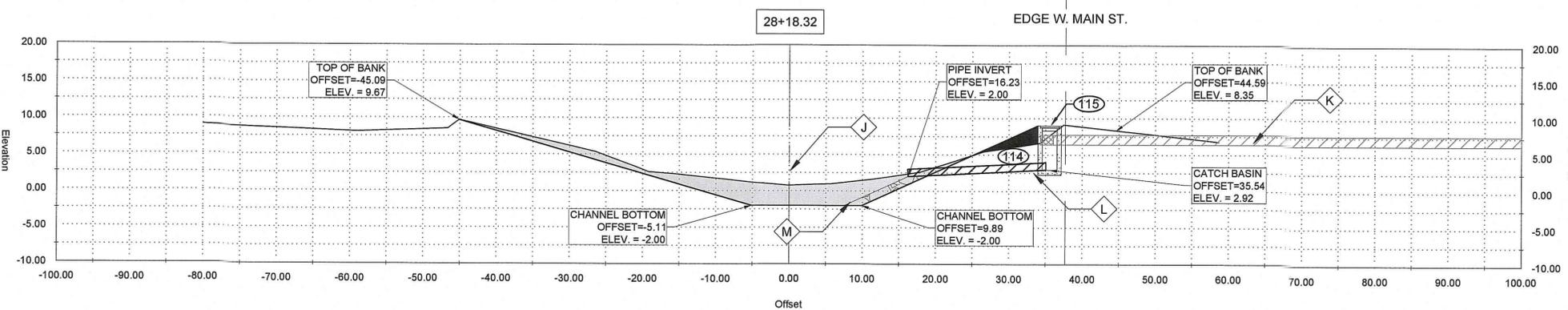
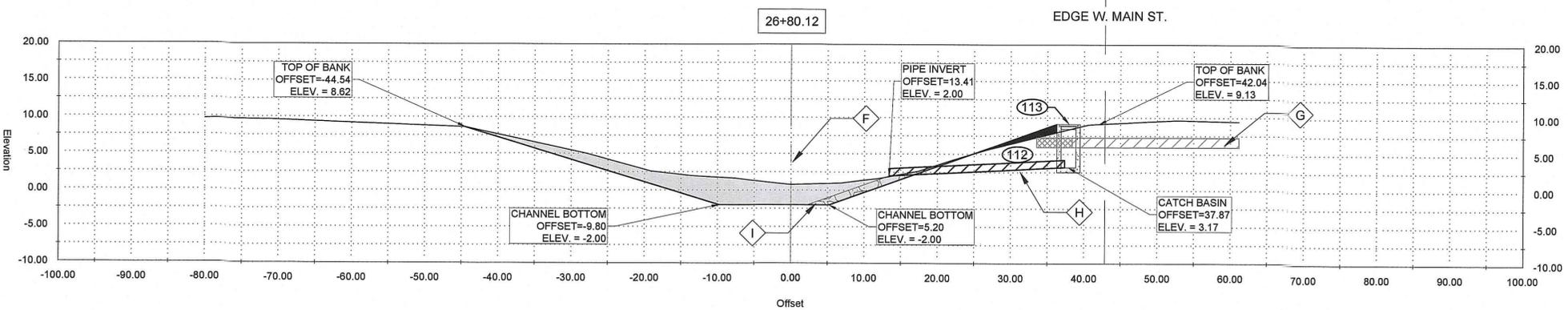
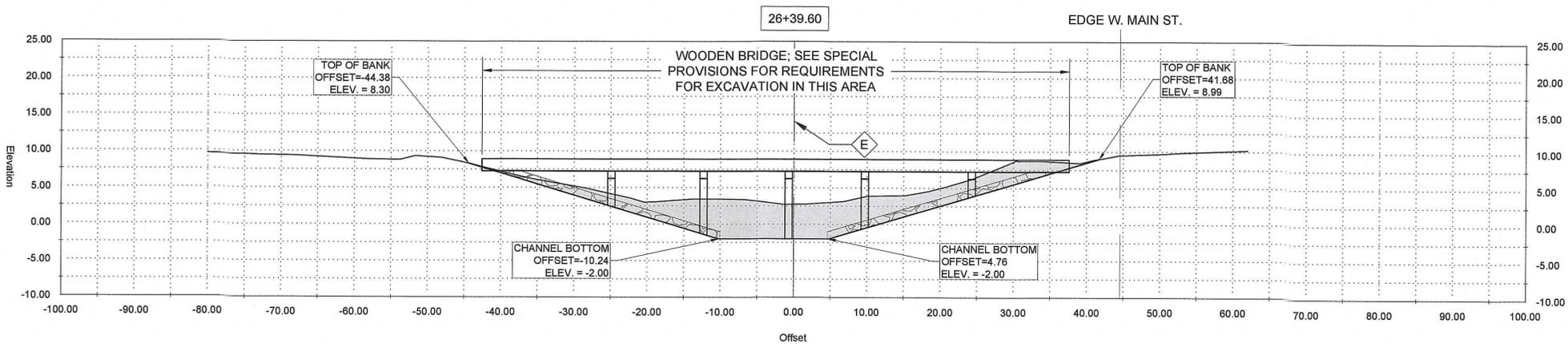
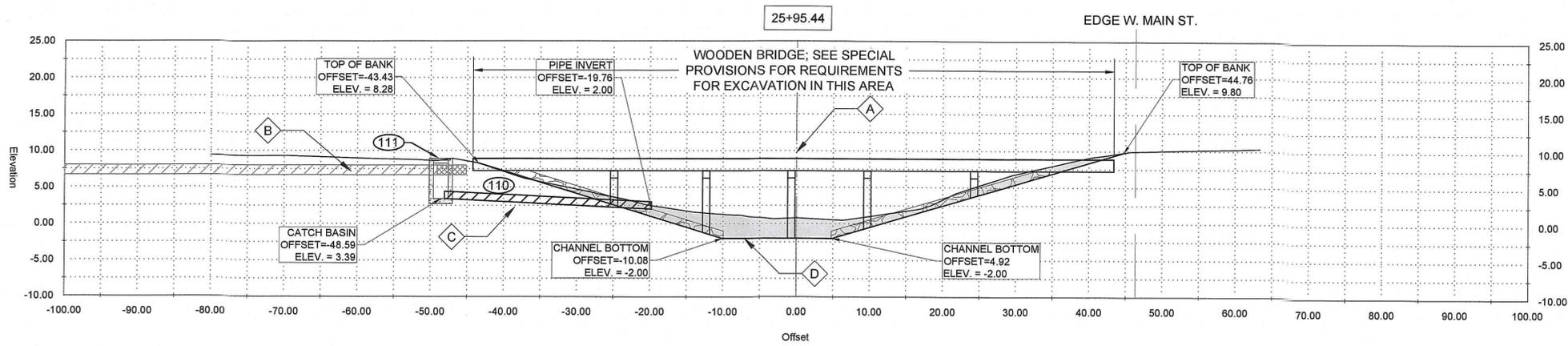
NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 CROSS SECTIONS

SHEET ID

C3

SHEET SET

14 OF **82**



GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ϵ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- ϵ A - SURVEYED ϵ
- ϵ B - EXISTING 12" RCP
- ϵ C - 15" PLASTIC PIPE EXTENSION 15" SDR (37)
- ϵ D - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 13.42 SY
 AREA EMBANKMENT: 0.00 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN
- EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ϵ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- ϵ E - SURVEYED ϵ

AREA DRAINAGE EXCAVATION: 25.93 SY
 AREA EMBANKMENT: 0.00 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ϵ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- ϵ F - SURVEYED ϵ
- ϵ G - EXISTING 12" RCP
- ϵ H - 15" PLASTIC PIPE EXTENSION 15" SDR (37)
- ϵ I - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 12.97 SY
 AREA EMBANKMENT: 0.68 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN
- EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ϵ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- ϵ J - SURVEYED ϵ
- ϵ K - EXISTING 12" RCP
- ϵ L - 15" PLASTIC PIPE EXTENSION 15" SDR (37)
- ϵ M - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 12.00 SY
 AREA EMBANKMENT: 1.10 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN
- EXISTING DRAIN PIPE TO BE REMOVED



SUBMITTED BY:
 ANDREW FORD, E.I.
 PROJECT MANAGER
 LICENSE NO. 37892

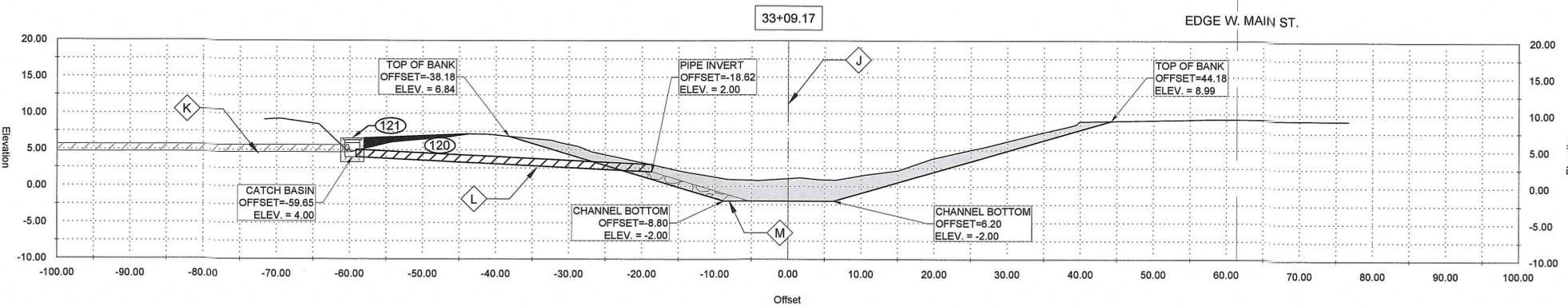
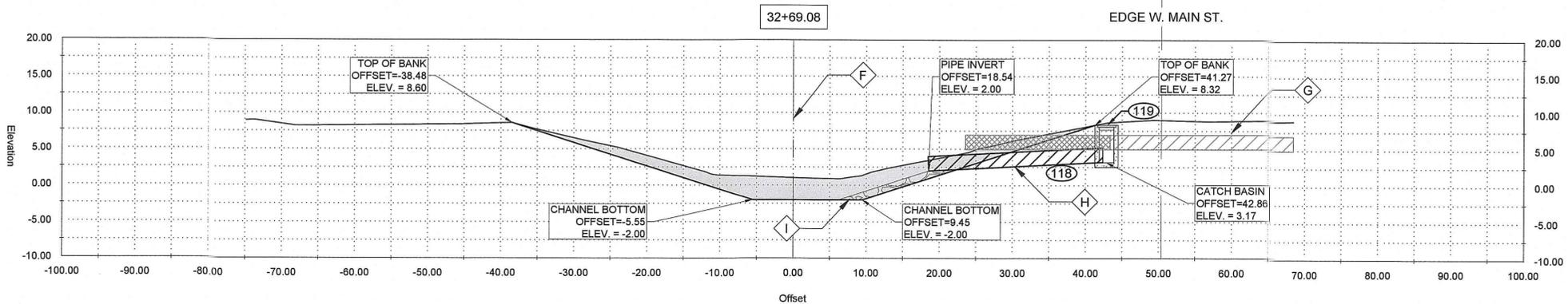
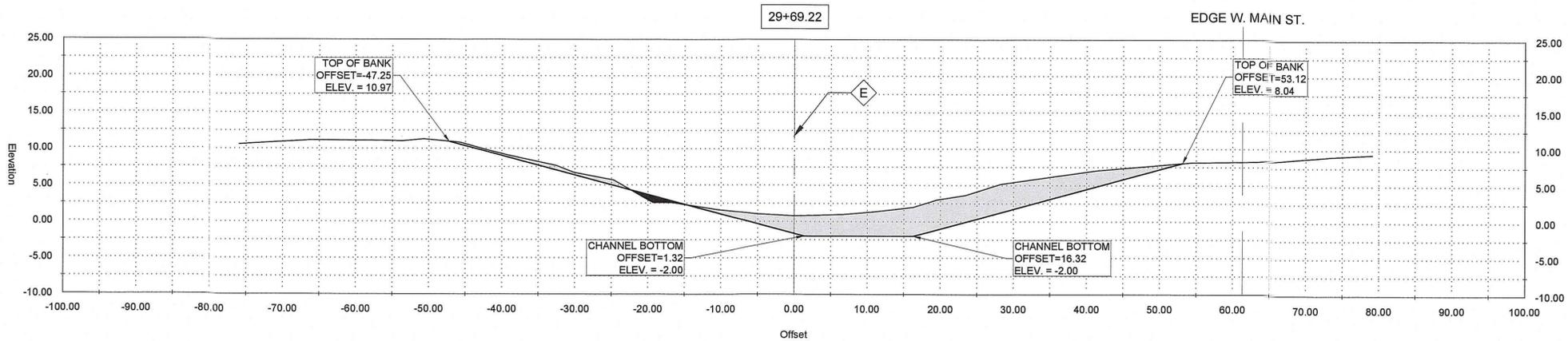
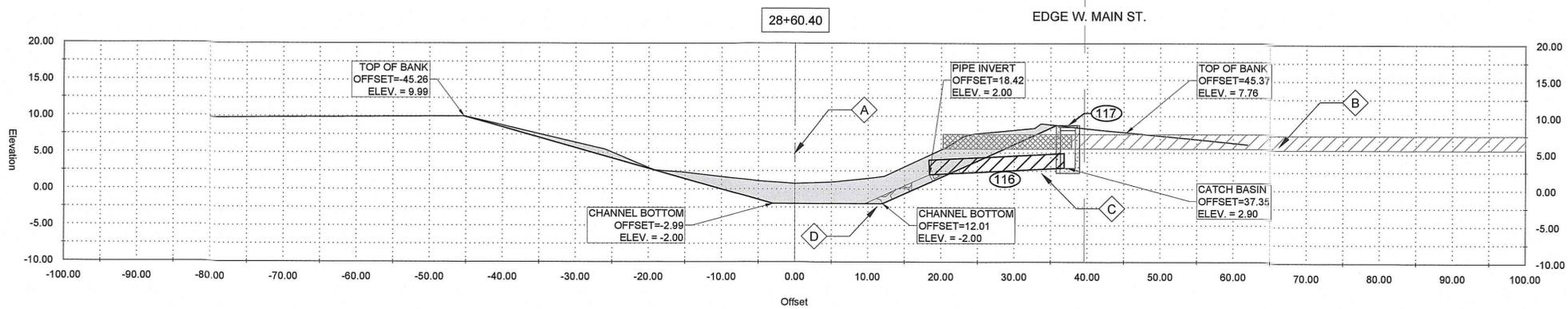
SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 37892



DATE	DESCRIPTION	BY	CHKD.
04/2019	RELEASED FOR BIDS & CONSTRUCTION	ARF	DAM

DATE	DESIGNED BY:	DRAWN BY:	CHECKED BY:
APRIL, 2019	DAM/ARF	ARF/RMM	DAM

NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 CROSS SECTIONS



GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ℓ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond A$ - SURVEYED ℓ
- $\diamond B$ - EXISTING 24" RCP
- $\diamond C$ - 24" PLASTIC PIPE EXTENSION [24" SDR (37)]
- $\diamond D$ - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 16.93 SY
 AREA EMBANKMENT: 0.00 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN
- EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ℓ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond E$ - SURVEYED ℓ

AREA DRAINAGE EXCAVATION: 19.58 SY
 AREA EMBANKMENT: 0.35 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ℓ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond F$ - SURVEYED ℓ
- $\diamond G$ - EXISTING 24" RCPA
- $\diamond H$ - 24" PLASTIC PIPE EXTENSION [24" SDR (37)]
- $\diamond I$ - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 16.15 SY
 AREA EMBANKMENT: 0.00 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN
- EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ℓ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond J$ - SURVEYED ℓ
- $\diamond K$ - EXISTING 12" METAL PIPE
- $\diamond L$ - 15" PLASTIC PIPE EXTENSION [15" SDR (37)]
- $\diamond M$ - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 16.81 SY
 AREA EMBANKMENT: 0.93 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN
- EXISTING DRAIN PIPE TO BE REMOVED



SUBMITTED BY:
 ANDRE R. FORD, E.L.
 PROJECT MANAGER
 LICENSE NO. 37832

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 37832



MARK	DESCRIPTION	DATE	BY	CHKD.
ARF	RELEASED FOR BIDS & CONSTRUCTION	04/20/19	ARF	DAM

DESIGNED BY: DAM/ARF
 DRAWN BY: ARF/RMM
 CHECKED BY: DAM

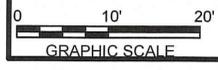
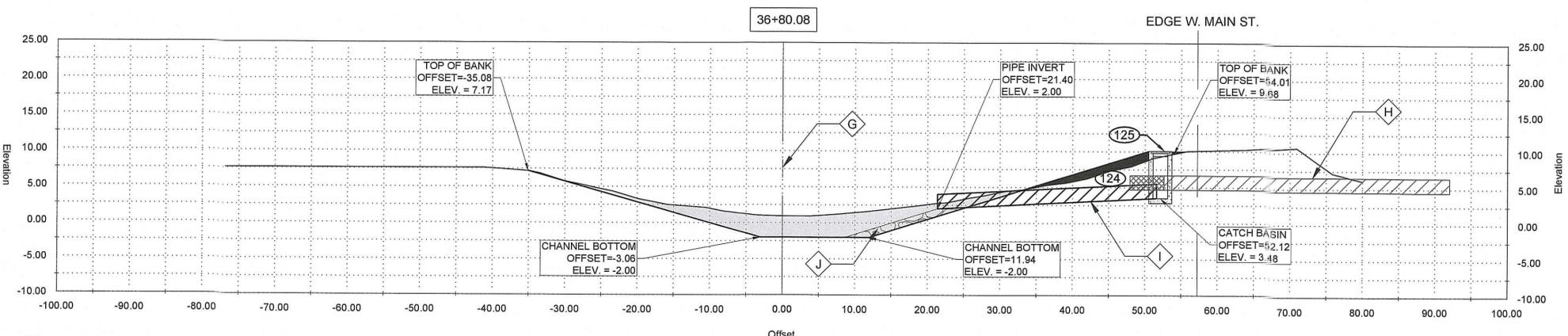
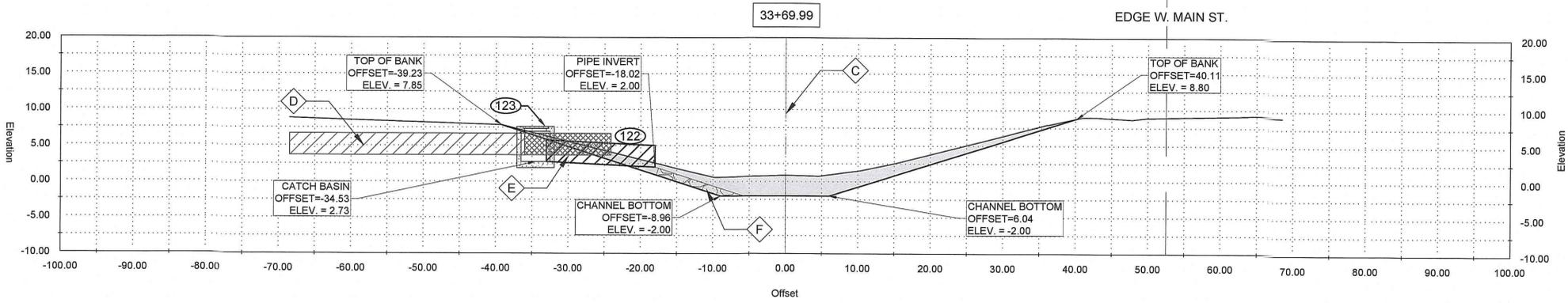
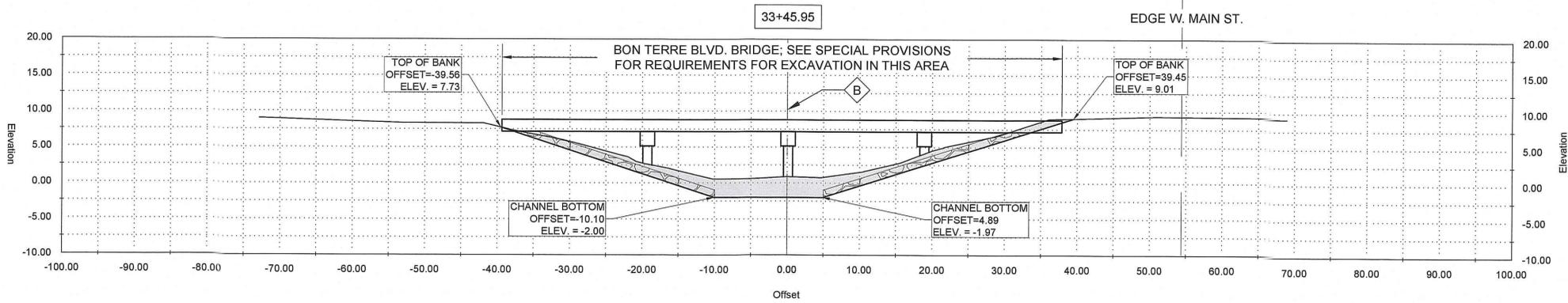
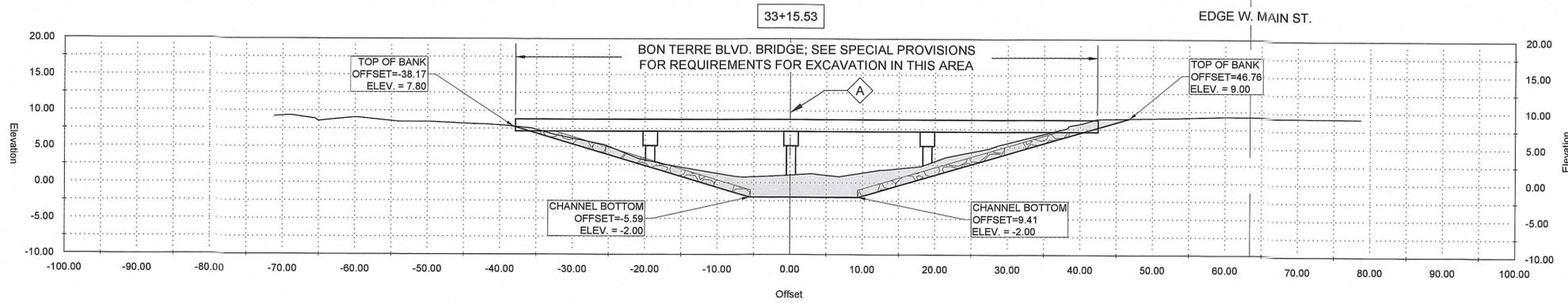
DATE: APRIL, 2019
 DETAILED BY: ARF/RMM
 HDC PROJECT NO. 2017-14

LOUISIANA
 NEW RIVER CHANNEL IMPROVEMENTS
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737

CROSS SECTIONS

SHEET ID
G5

SHEET SET
16 OF **82**



GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{A} - SURVEYED \mathcal{C}

AREA DRAINAGE EXCAVATION: 15.99 SY
AREA EMBANKMENT: 0.00 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{B} - SURVEYED \mathcal{C}

AREA DRAINAGE EXCAVATION: 14.45 SY
AREA EMBANKMENT: 0.00 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{C} - SURVEYED \mathcal{C}

\mathcal{D} - EXISTING 36" CMP

\mathcal{E} - 36" PLASTIC PIPE EXTENSION [36" SDR (37)]

\mathcal{F} - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 13.35 SY
AREA EMBANKMENT: 0.00 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN

- EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{G} - SURVEYED \mathcal{C}

\mathcal{H} - EXISTING 24" RCP

\mathcal{I} - 24" PLASTIC PIPE EXTENSION [24" SDR (37)]

\mathcal{J} - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 13.09 SY
AREA EMBANKMENT: 1.36 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN

- EXISTING DRAIN PIPE TO BE REMOVED



SUBMITTED BY:
ANDRÉ R. FORD, P.E.
PROJECT MANAGER
LICENSE NO. 37832

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL
LICENSE NO. 37832



MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/20/19	ARF/RMM	DAM

DESIGNED BY: DAM/ARF
DRAWN BY: ARF/RMM
CHECKED BY: DAM

DATE: APRIL, 2019
DETAILED BY: ARF/RMM
HDC PROJECT NO. 2017-14

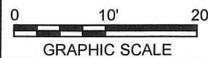
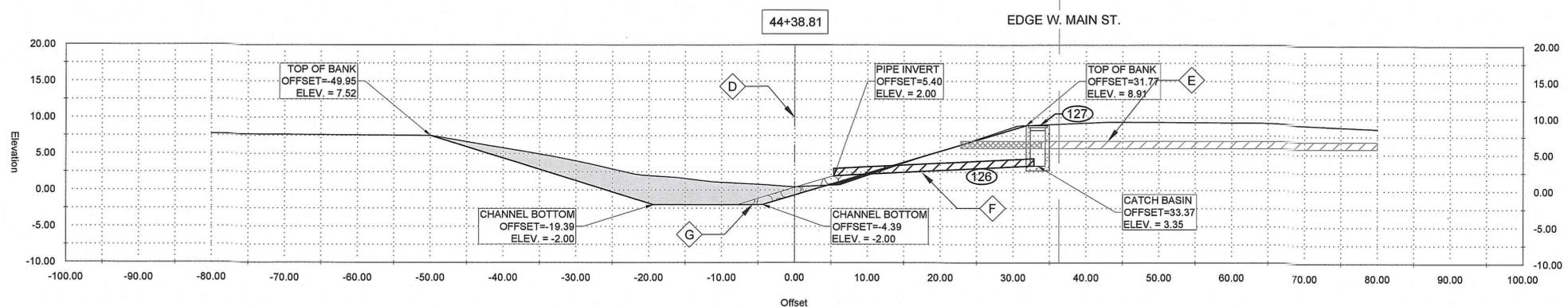
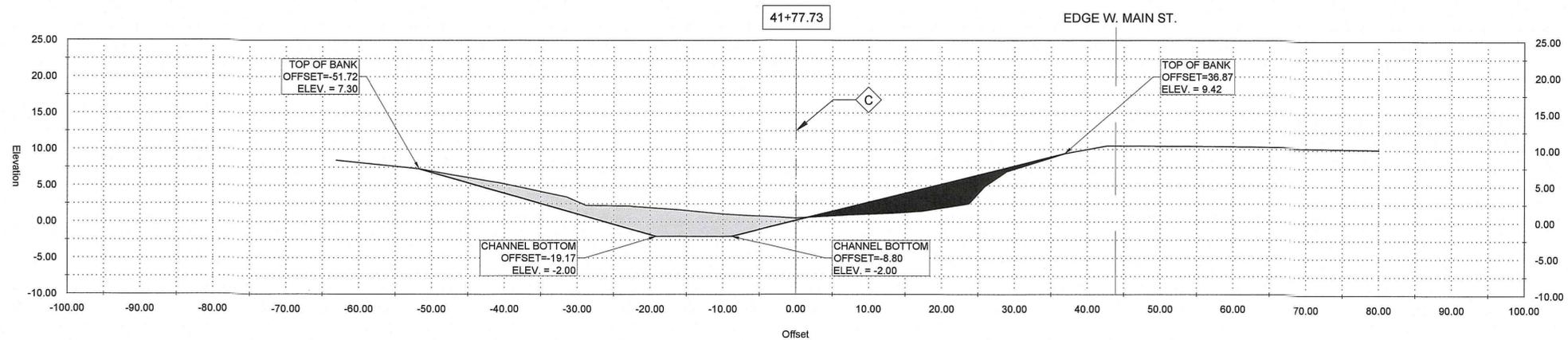
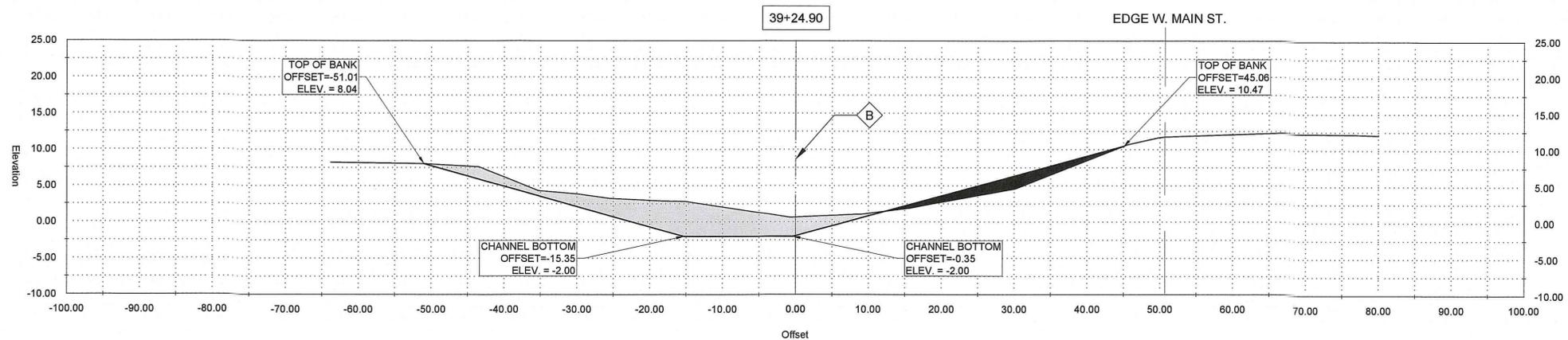
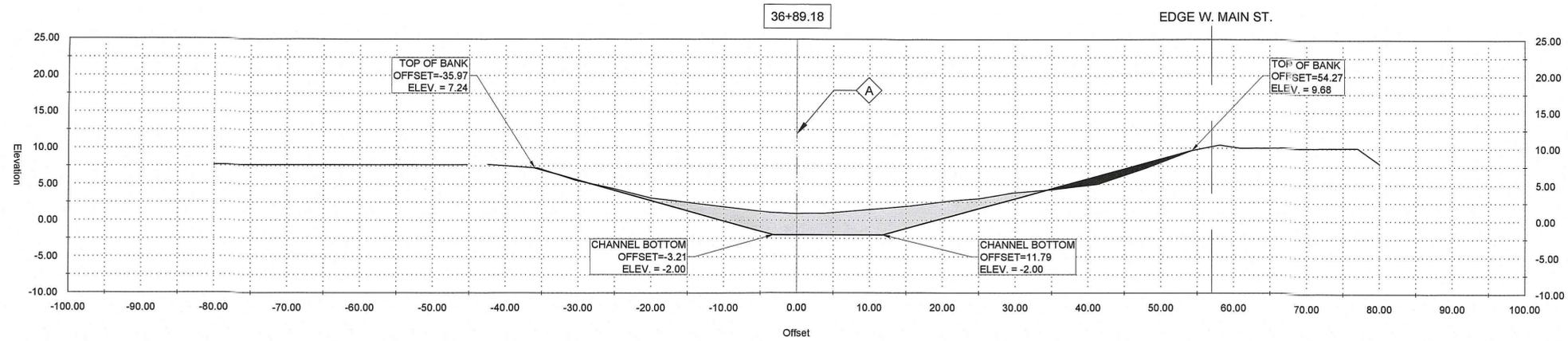
LOUISIANA
NEW RIVER CHANNEL IMPROVEMENTS
GONZALES

EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737

CROSS SECTIONS

SHEET ID
C6

SHEET SET
17 OF 82



GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{A} - SURVEYED \mathcal{C}

AREA DRAINAGE EXCAVATION: 12.80 SY
 AREA EMBANKMENT: 1.69 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{B} - SURVEYED \mathcal{C}

AREA DRAINAGE EXCAVATION: 15.52 SY
 AREA EMBANKMENT: 3.39 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{C} - SURVEYED \mathcal{C}

AREA DRAINAGE EXCAVATION: 11.47 SY
 AREA EMBANKMENT: 6.30 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{D} - SURVEYED \mathcal{C}

\mathcal{E} - EXISTING 12" RCP

\mathcal{F} - 15" PLASTIC PIPE EXTENSION 15" SDR (37)

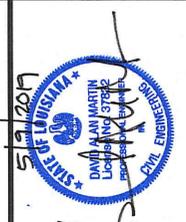
\mathcal{G} - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 13.71 SY
 AREA EMBANKMENT: 0.31 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN

- EXISTING DRAIN PIPE TO BE REMOVED



SUBMITTED BY:
 ANDRE R. FORD, P.E.
 PROJECT MANAGER

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL



MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/20/19	ARF	DAM

DESIGNED BY: DAM/ARF
 DRAWN BY: ARF/RMM
 CHECKED BY: DAM

DATE: APRIL, 2019
 DETAILED BY: ARF/RMM
 HDC PROJECT NO.: 2017-14

LOUISIANA
 GONZALES

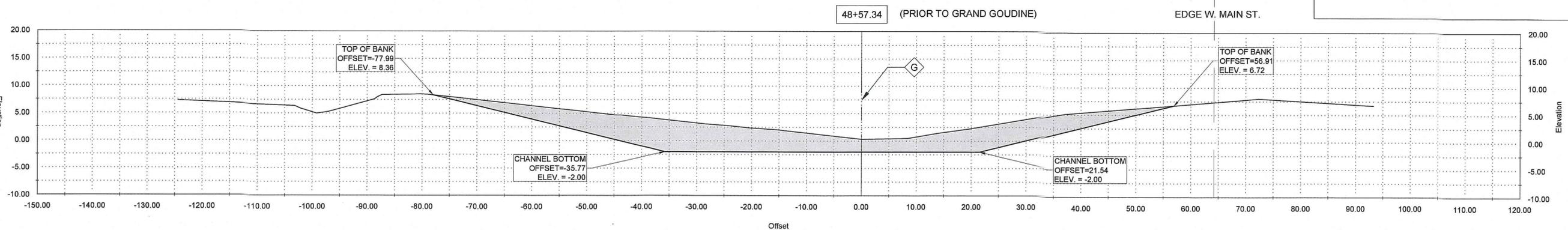
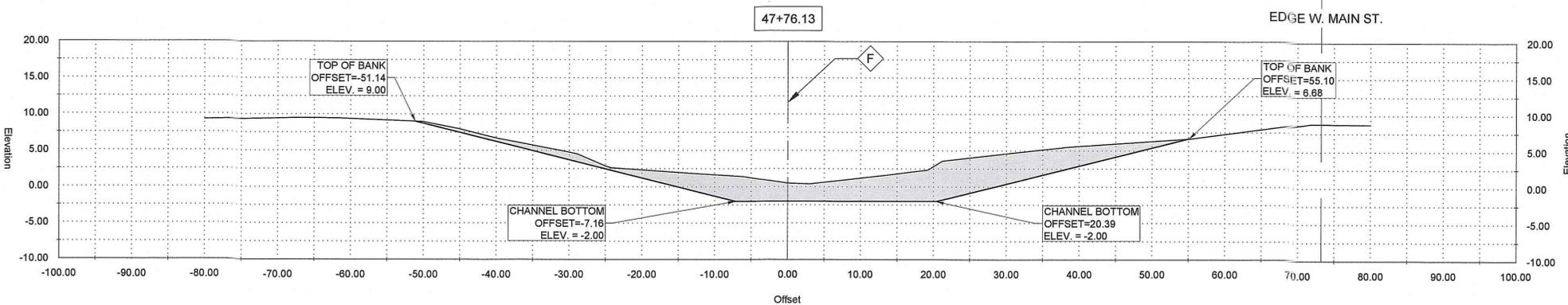
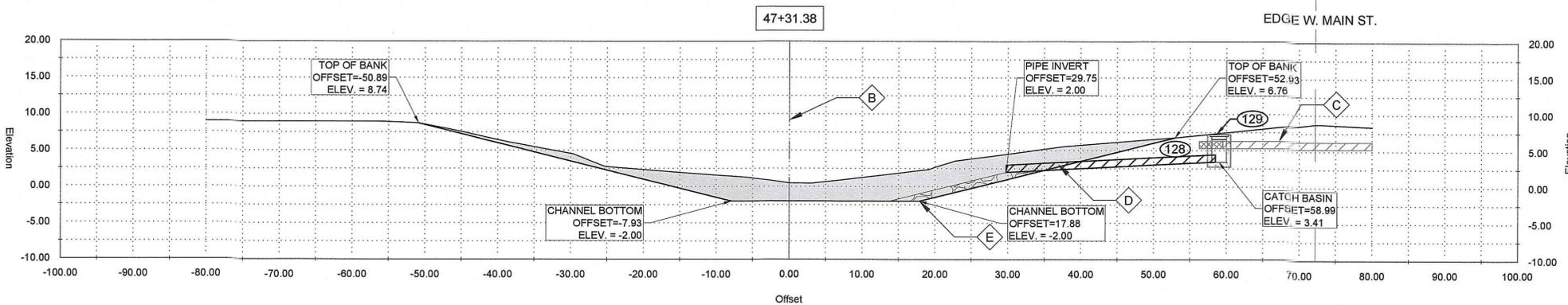
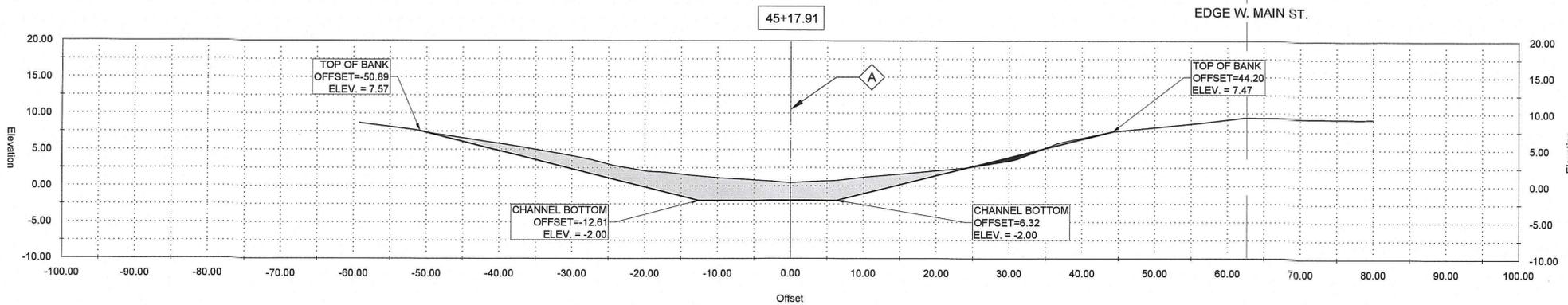
NEW RIVER CHANNEL IMPROVEMENTS

EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737

CROSS SECTIONS

SHEET ID
C7

SHEET SET
18 OF 82



GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED CL
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS
NOTES BY SYMBOL:
 ⬡ - SURVEYED CL

AREA DRAINAGE EXCAVATION: 15.36 SY
 AREA EMBANKMENT: 0.31 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED CL
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS
NOTES BY SYMBOL:
 ⬡ - SURVEYED CL
 ⬢ - EXISTING 12" RCP
 ⬢ - 15" PLASTIC PIPE EXTENSION 15" SDR (37)
 ⬢ - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 24.35 SY
 AREA EMBANKMENT: 0.00 SY

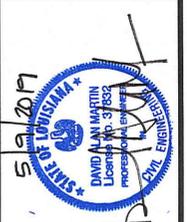
LEGEND:
 ▨ - EXISTING DRAIN PIPE TO REMAIN
 ▩ - EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED CL
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS
NOTES BY SYMBOL:
 ⬡ - SURVEYED CL

AREA DRAINAGE EXCAVATION: 26.53 SY
 AREA EMBANKMENT: 0.00 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED CL
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS
NOTES BY SYMBOL:
 ⬡ - SURVEYED CL

AREA DRAINAGE EXCAVATION: 47.80 SY
 AREA EMBANKMENT: 0.00 SY



SUBMITTED BY:
 ANDRE E. FORDELL
 PROJECT MANAGER
 LICENSE NO. 37832

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 37832



MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

DESIGNED BY: DAM/ARF
 DRAWN BY: ARF/RMM
 CHECKED BY: DAM

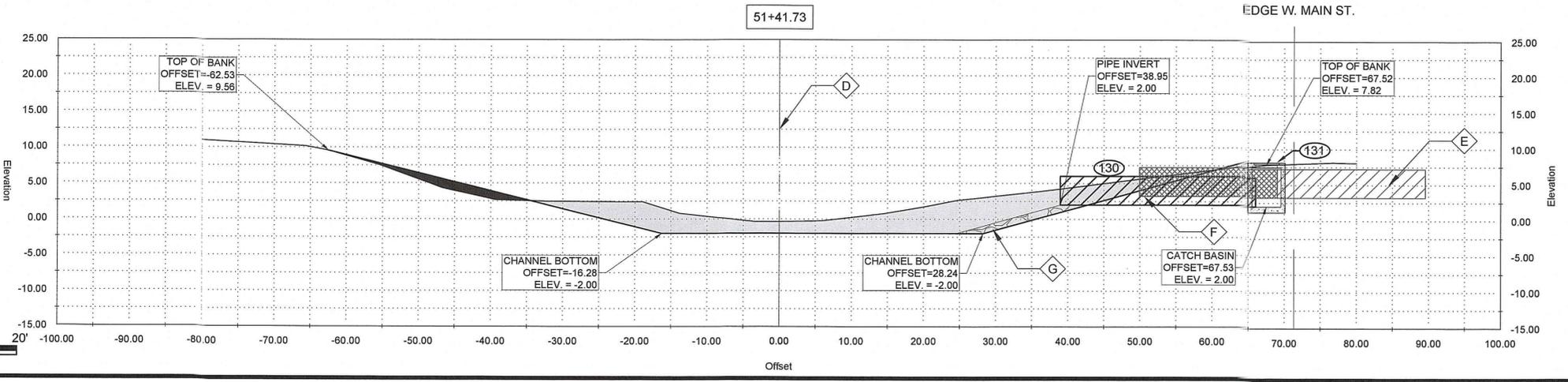
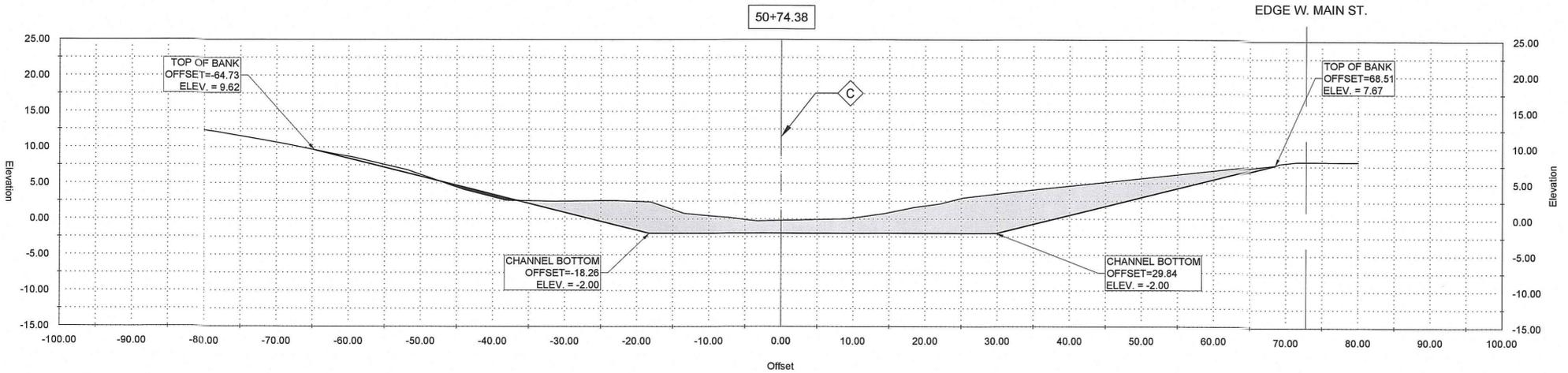
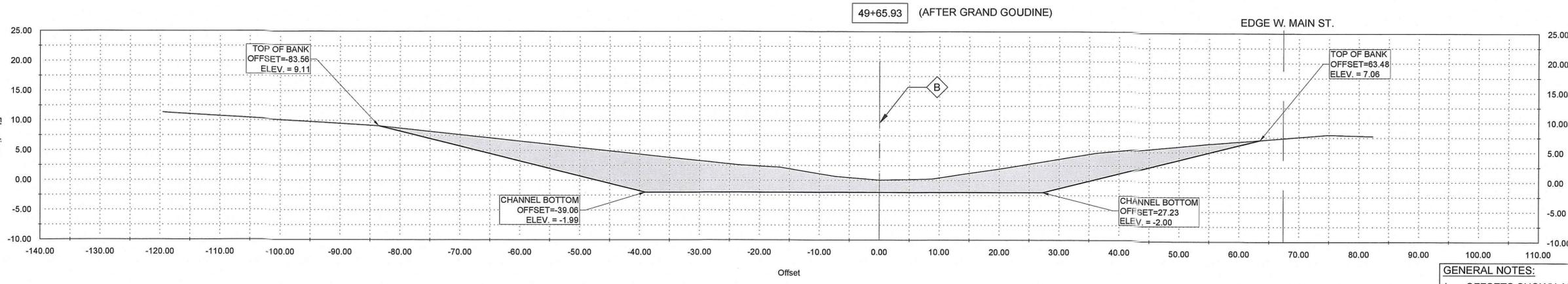
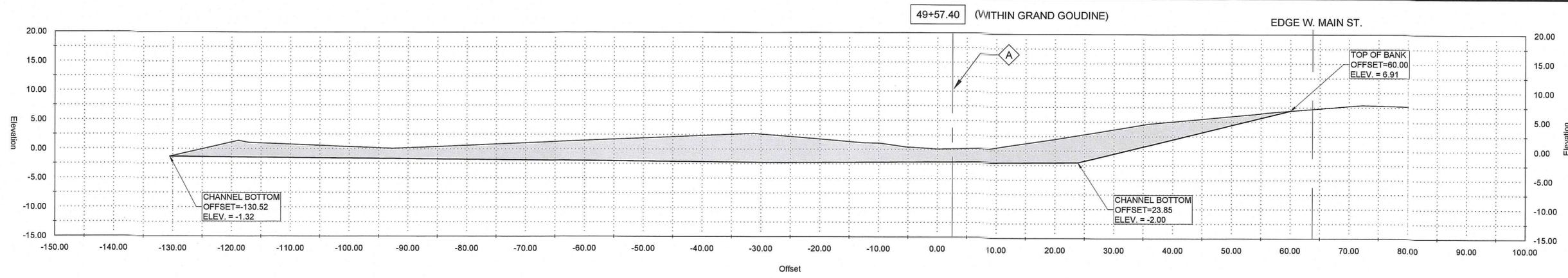
DATE: APRIL, 2019
 DETAILED BY: ARF/RMM
 HDC PROJECT NO. 2017-14

LOUISIANA
 NEW RIVER CHANNEL IMPROVEMENTS
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737

SHEET ID
C8

SHEET SET
 19 OF 82





GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ☒
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 ☒ - SURVEYED ☒
 AREA DRAINAGE EXCAVATION: 63.03 SY
 AREA EMBANKMENT: 0.00 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ☒
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 ☒ - SURVEYED ☒
 AREA DRAINAGE EXCAVATION: 54.94 SY
 AREA EMBANKMENT: 0.00 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ☒
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

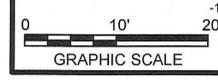
NOTES BY SYMBOL:
 ☒ - SURVEYED ☒
 AREA DRAINAGE EXCAVATION: 32.65 SY
 AREA EMBANKMENT: 0.32 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ☒
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

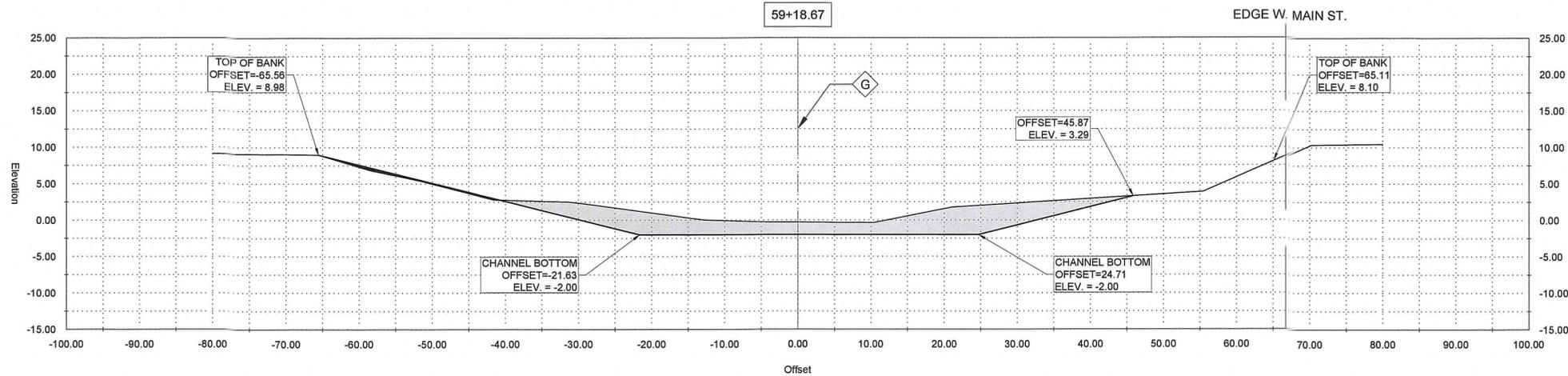
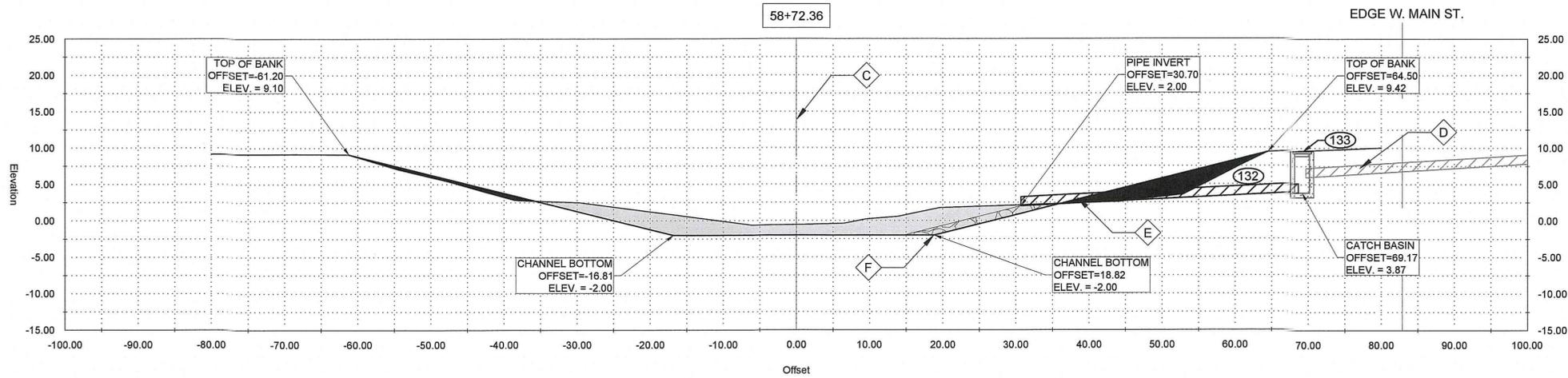
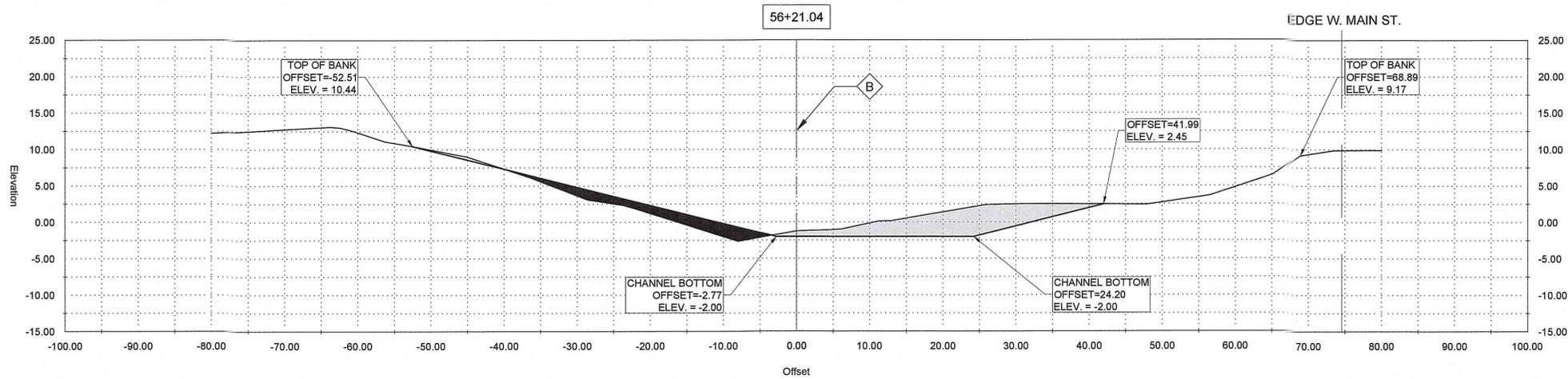
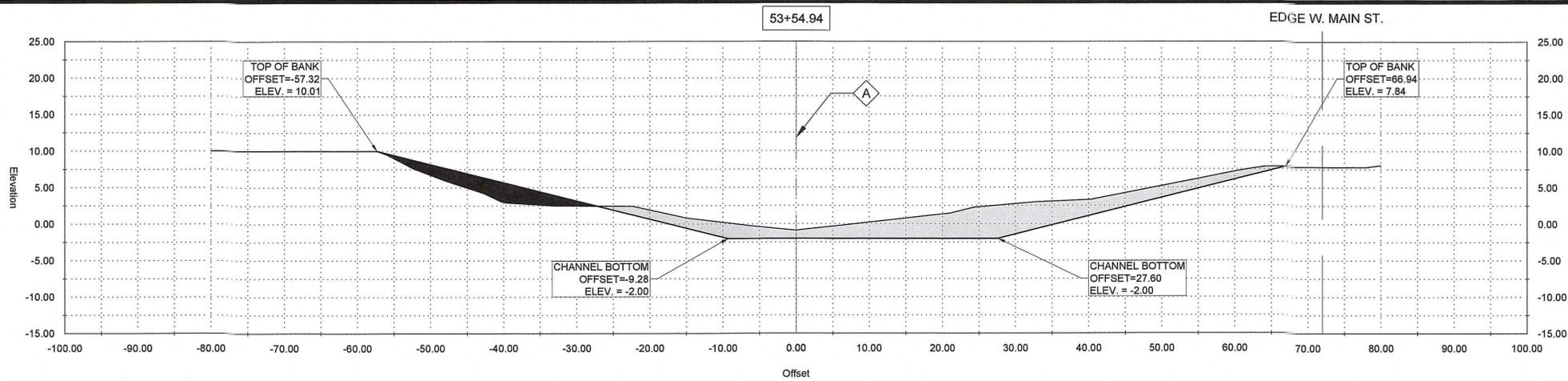
NOTES BY SYMBOL:
 ☒ - SURVEYED ☒
 ☒ - EXISTING 48" STEEL PIPE
 ☒ - 48" PLASTIC PIPE EXTENSION 48" SDR (37)
 ☒ - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 26.53 SY
 AREA EMBANKMENT: 2.07 SY

LEGEND:
 ☒ - EXISTING DRAIN PIPE TO REMAIN
 ☒ - EXISTING DRAIN PIPE TO BE REMOVED



SUBMITTED BY: ANDRÉ FORD, LEI PROJECT MANAGER LICENSE NO. 37832	SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL LICENSE NO. 37832
H. Davis Cole & Associates, LLC ENGINEERS NEW ORLEANS, LA	
RELEASED FOR BIDS & CONSTRUCTION DATE: 04/29/19 MARK: ARF / DAM	
REVISION RECORD	
DESIGNED BY: DAM/ARF	DRAWN BY: ARF/RMM CHECKED BY: DAM
DATE: APRIL, 2019	DETAILED BY: ARF/RMM HDC PROJECT NO. 2017-14
NEW RIVER CHANNEL IMPROVEMENTS LOUISIANA GONZALES EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1 42077 CHURCHPOINT ROAD, GONZALES, LA 70737 CROSS SECTIONS	
SHEET ID C9	
SHEET SET 20 OF 82	



GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ξ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\diamond A - SURVEYED ξ

AREA DRAINAGE EXCAVATION: 21.21 SY
 AREA EMBANKMENT: 4.90 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ξ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\diamond B - SURVEYED ξ

AREA DRAINAGE EXCAVATION: 10.67 SY
 AREA EMBANKMENT: 4.30 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ξ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- \diamond C - SURVEYED ξ
- \diamond D - EXISTING 12" RCP
- \diamond E - 15" PLASTIC PIPE EXTENSION [15" SDR (37)]
- \diamond F - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 14.97 SY
 AREA EMBANKMENT: 5.82 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN
- EXISTING DRAIN PIPE TO BE REMOVED

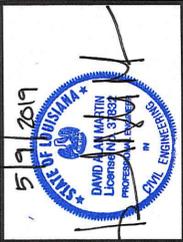
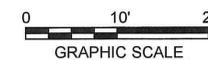
GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ξ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\diamond G - SURVEYED ξ

AREA DRAINAGE EXCAVATION: 20.50 SY
 AREA EMBANKMENT: 0.47 SY



SUBMITTED BY:
 ANDRE R. FORD, E.I.
 PROJECT MANAGER
 LICENSE NO. 37432

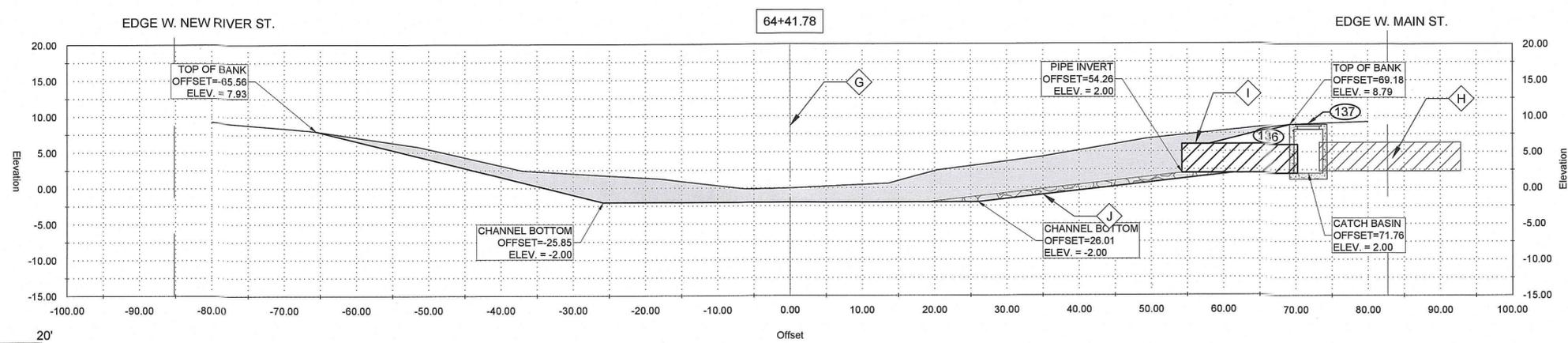
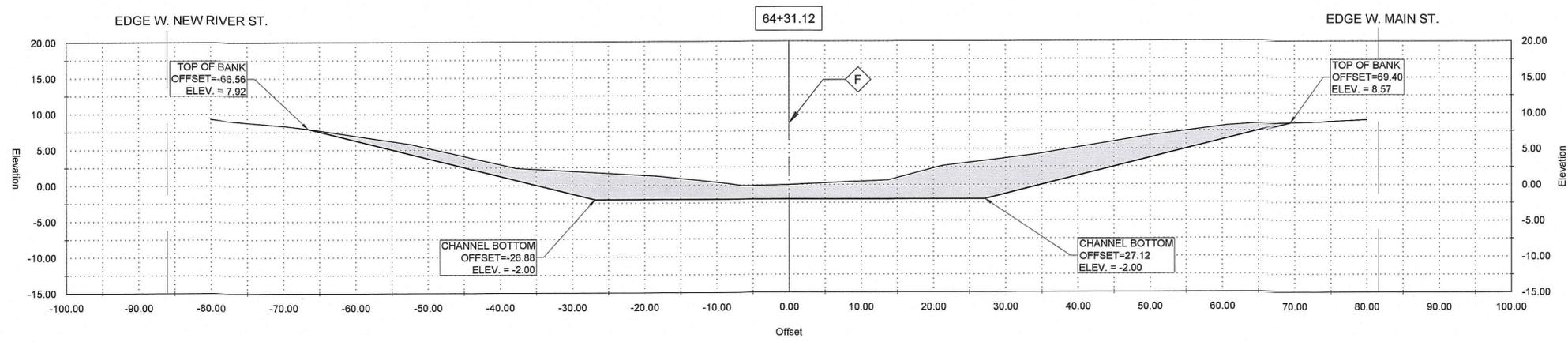
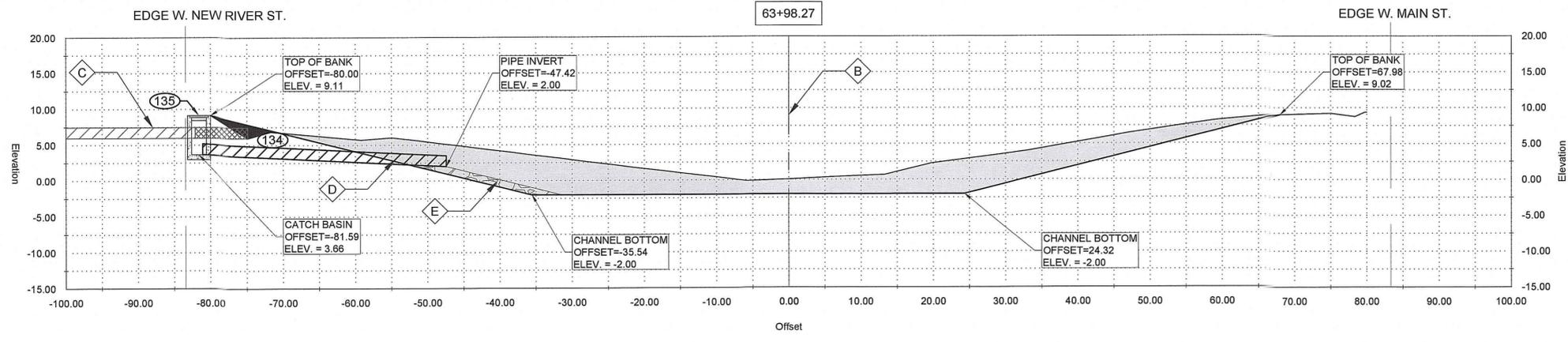
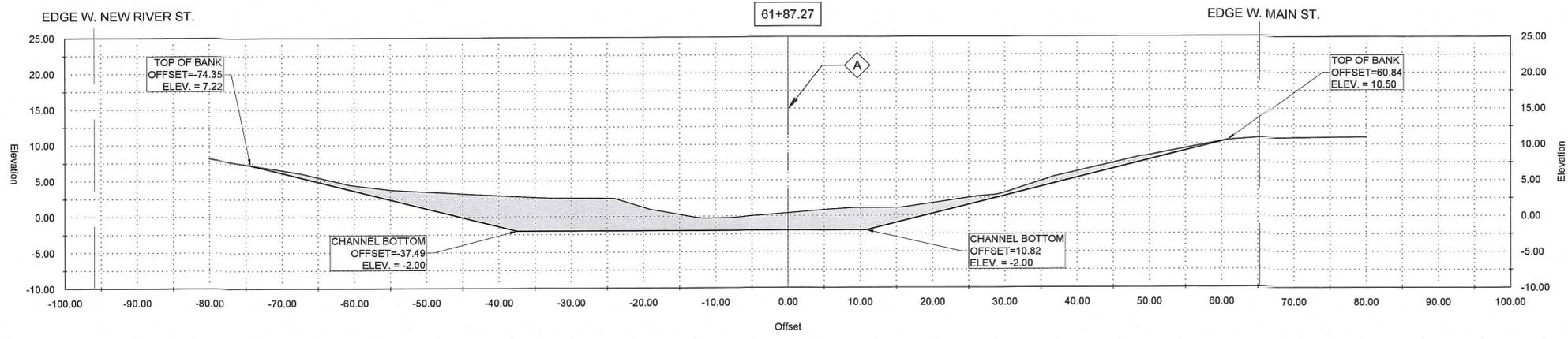
SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 37432



MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

DESIGNED BY:	DAM/ARF	DRAWN BY:	ARF/RMM	CHECKED BY:	DAM
DATE:	APRIL, 2019	DETAILED BY:	ARF/RMM	HDC PROJECT NO.:	2017-14

NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 CROSS SECTIONS



GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{L}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{A} - SURVEYED \mathcal{L}

AREA DRAINAGE EXCAVATION: 29.40 SY
 AREA EMBANKMENT: 0.00 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{L}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{B} - SURVEYED \mathcal{L}

\mathcal{C} - EXISTING 18" RCP

\mathcal{D} - 18" PLASTIC PIPE EXTENSION 18" SDR (37)

\mathcal{E} - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 46.52 SY
 AREA EMBANKMENT: 0.91 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN

- EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{L}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{F} - SURVEYED \mathcal{L}

AREA DRAINAGE EXCAVATION: 39.11 SY
 AREA EMBANKMENT: 0.00 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{L}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{G} - SURVEYED \mathcal{L}

\mathcal{H} - EXISTING 48" RCP

\mathcal{I} - 48" RCP PIPE EXTENSION 48" SDR (22)

\mathcal{J} - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 43.21 SY
 AREA EMBANKMENT: 0.00 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN

- EXISTING DRAIN PIPE TO BE REMOVED



DATE: 04/26/2019
 SUBMITTED BY: E.L. PROJECT MANAGER
 SUBMITTED BY: H. Davis Coles & Associates, LLC PRINCIPAL



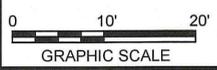
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	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

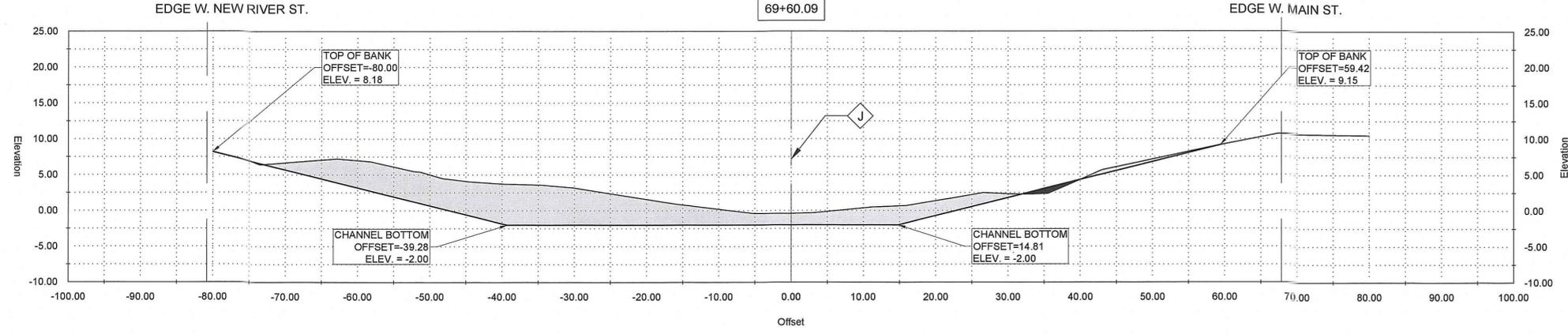
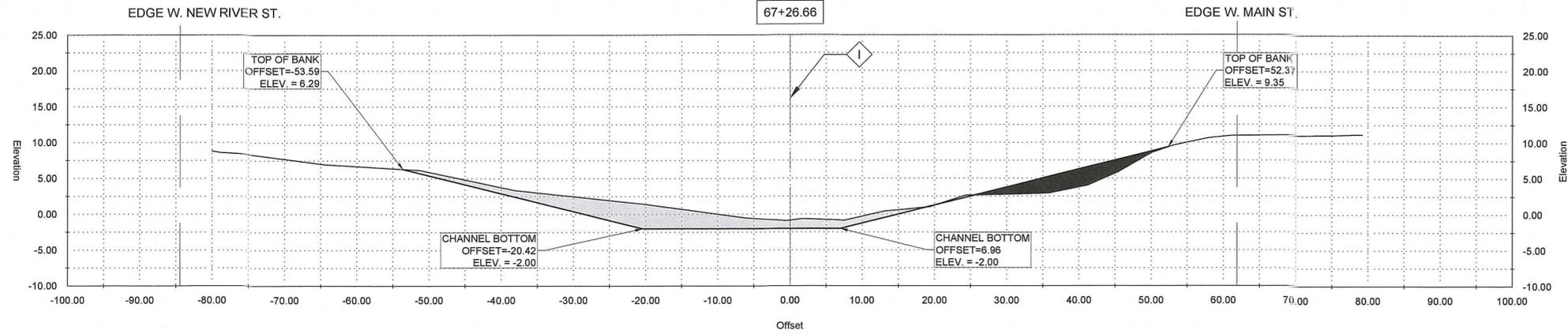
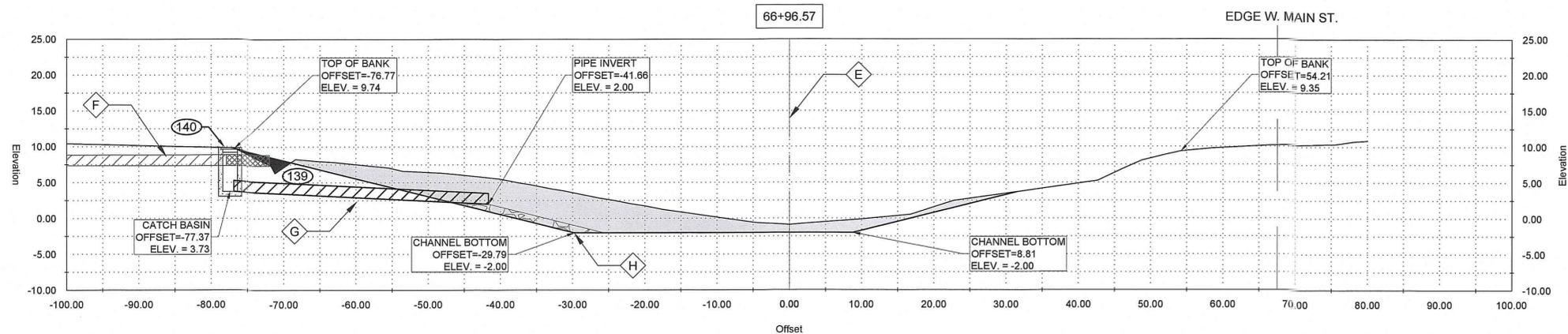
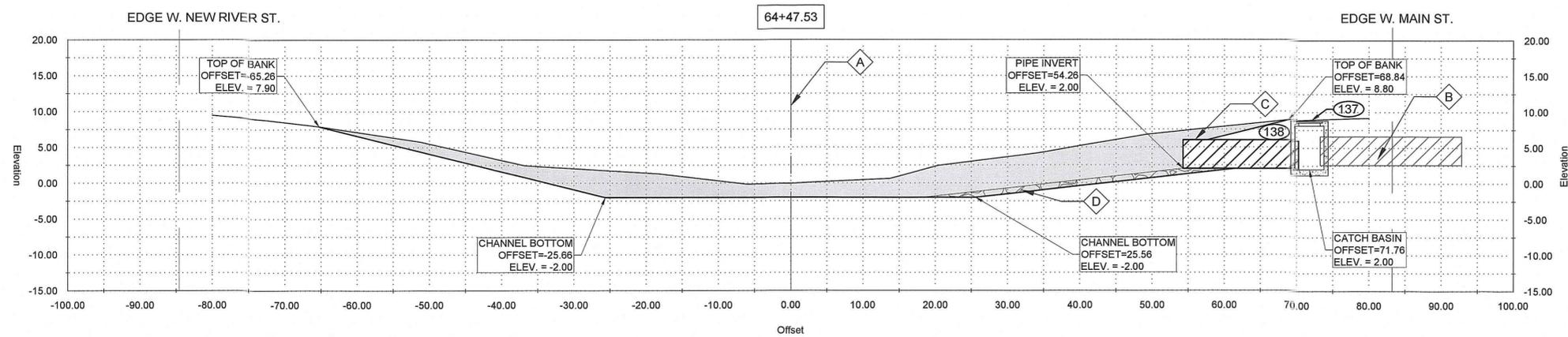
DATE	DESIGNED BY:	DRAWN BY:	CHECKED BY:
APRIL, 2019	DAM/ARF	AR/FRMM	DAM

LOUISIANA
 GONZALES

NEW RIVER CHANNEL IMPROVEMENTS
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737

SHEET ID: **C11**
 SHEET SET: **22** OF **82**





GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- \diamond A - SURVEYED ζ
- \diamond B - EXISTING 48" RCP
- \diamond C - 48" RCP PIPE EXTENSION [48" SDR (22)]
- \diamond D - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 43.10 SY
 AREA EMBANKMENT: 0.00 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN
- EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- \diamond E - SURVEYED ζ
- \diamond F - EXISTING 18" CMP
- \diamond G - 18" PLASTIC PIPE EXTENSION [18" SDR (37)]
- \diamond H - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 28.11 SY
 AREA EMBANKMENT: 0.66 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN
- EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- \diamond I - SURVEYED ζ

AREA DRAINAGE EXCAVATION: 12.05 SY
 AREA EMBANKMENT: 4.31 SY

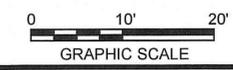
GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- \diamond J - SURVEYED ζ

AREA DRAINAGE EXCAVATION: 36.15 SY
 AREA EMBANKMENT: 0.38 SY



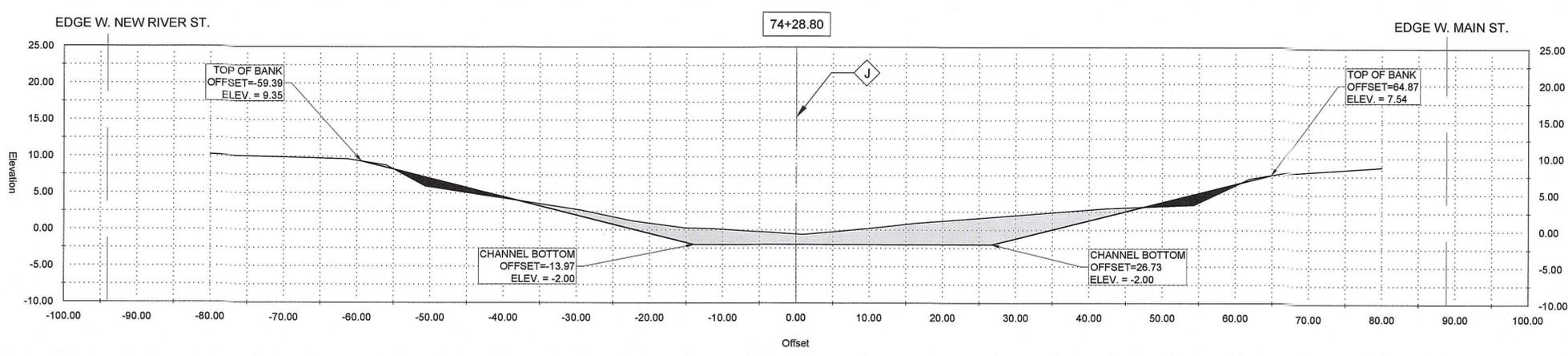
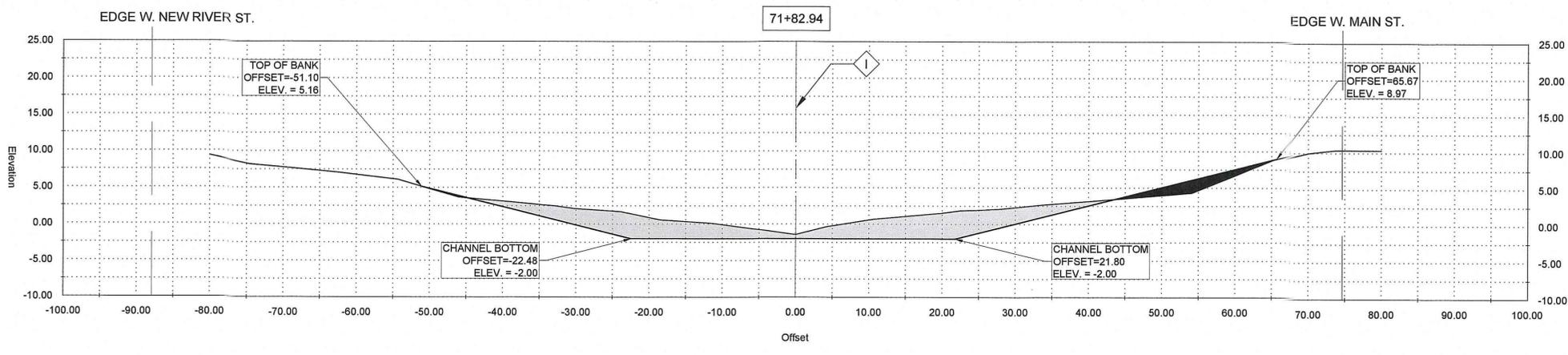
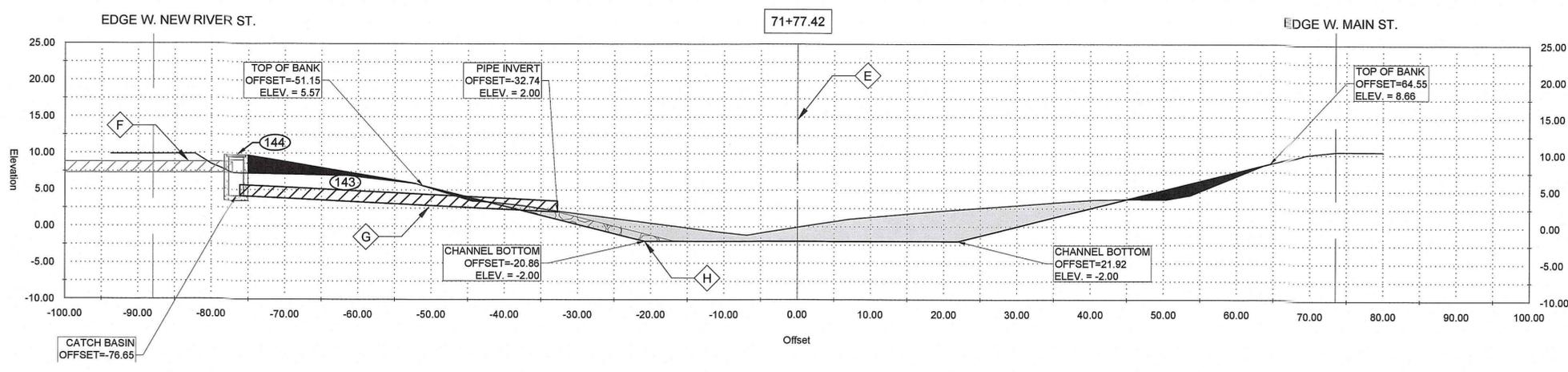
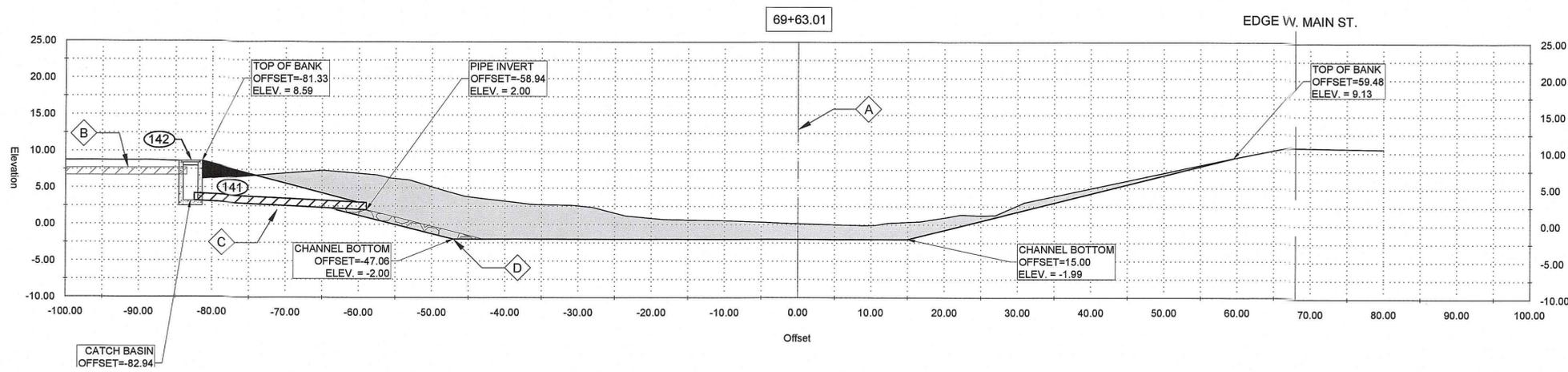
PROJECT MANAGER: ANDRE FORBES, LICENSE NO. 97852
 PRINCIPAL: H. DAVIS COLE & ASSOCIATES, INC., LICENSE NO. 37432



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF/RMM	DAM

DESIGNED BY:	DAM/ARF
DRAWN BY:	ARF/RMM
CHECKED BY:	DAM
DATE:	APRIL, 2019
DETAILED BY:	ARF/RMM
HDC PROJECT NO.:	2017-14

NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 CROSS SECTIONS



GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ζ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 A - SURVEYED ζ
 B - EXISTING 12" RCP
 C - 15" PLASTIC PIPE EXTENSION 15" SDR (37)
 D - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 39.19 SY
 AREA EMBANKMENT: 0.99 SY

LEGEND:
 [Hatched] - EXISTING DRAIN PIPE TO REMAIN
 [Cross-hatched] - EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ζ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 E - SURVEYED ζ
 F - EXISTING 18" CMP
 G - 18" PLASTIC PIPE EXTENSION 18" SDR (37)
 H - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 20.61 SY
 AREA EMBANKMENT: 4.50 SY

LEGEND:
 [Hatched] - EXISTING DRAIN PIPE TO REMAIN
 [Cross-hatched] - EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ζ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

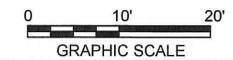
NOTES BY SYMBOL:
 I - SURVEYED ζ

AREA DRAINAGE EXCAVATION: 19.62 SY
 AREA EMBANKMENT: 2.21 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ζ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 J - SURVEYED ζ

AREA DRAINAGE EXCAVATION: 17.81 SY
 AREA EMBANKMENT: 2.24 SY



SUBMITTED BY: ANDRE R. FORD, P.E. PROJECT MANAGER	SUBMITTED BY: DAVID MARTIN, P.E. PRINCIPAL
LICENSE NO. 10000	LICENSE NO. 37839

H. Davis Cole & Associates, Inc.
 Consulting Engineers
 NEW ORLEANS, LA

DATE	DESCRIPTION	BY	CHKD.
04/20/19 <td>RELEASED FOR BIDS & CONSTRUCTION <td>ARF <td>DAM </td></td></td>	RELEASED FOR BIDS & CONSTRUCTION <td>ARF <td>DAM </td></td>	ARF <td>DAM </td>	DAM

DESIGNED BY:	DAM/ARF	CHECKED BY:	DAM
DATE:	APRIL, 2019	DATE:	2017-14
DETAILED BY:	ARF/RMM	DATE:	2017-14

NEW RIVER CHANNEL IMPROVEMENTS

LOUISIANA

GONZALES

EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1

42077 CHURCH-POINT ROAD, GONZALES, LA 70737

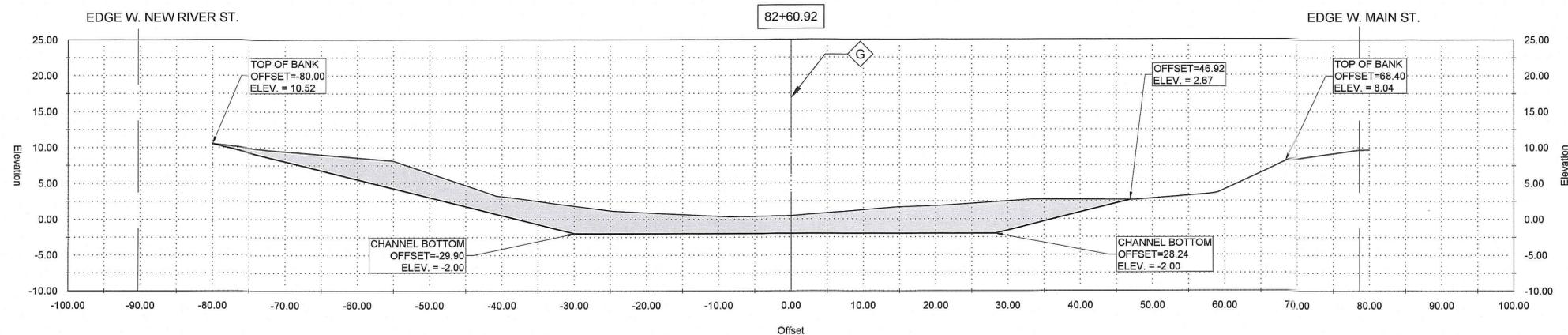
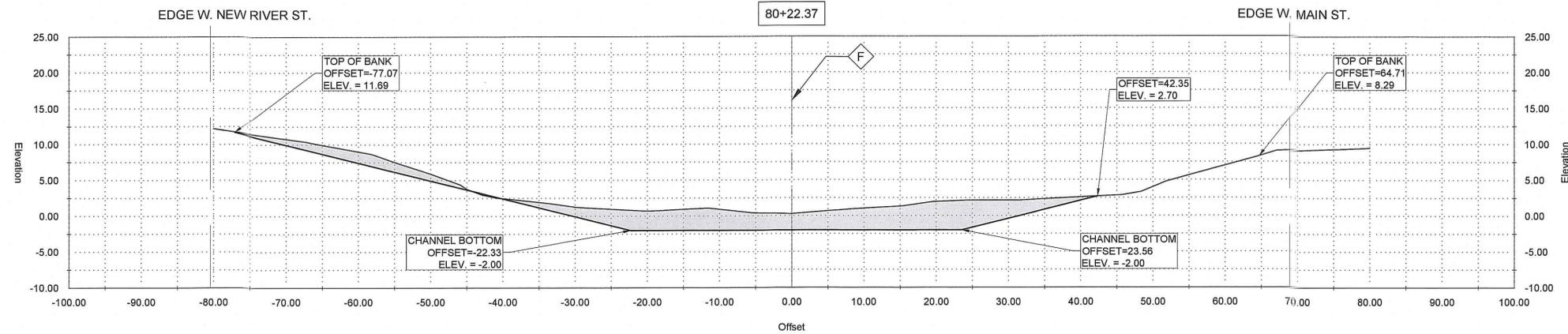
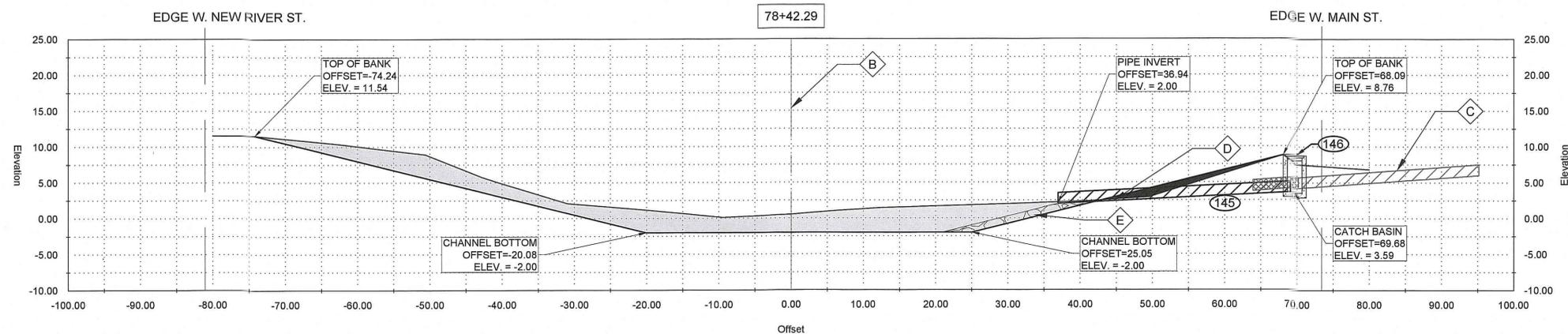
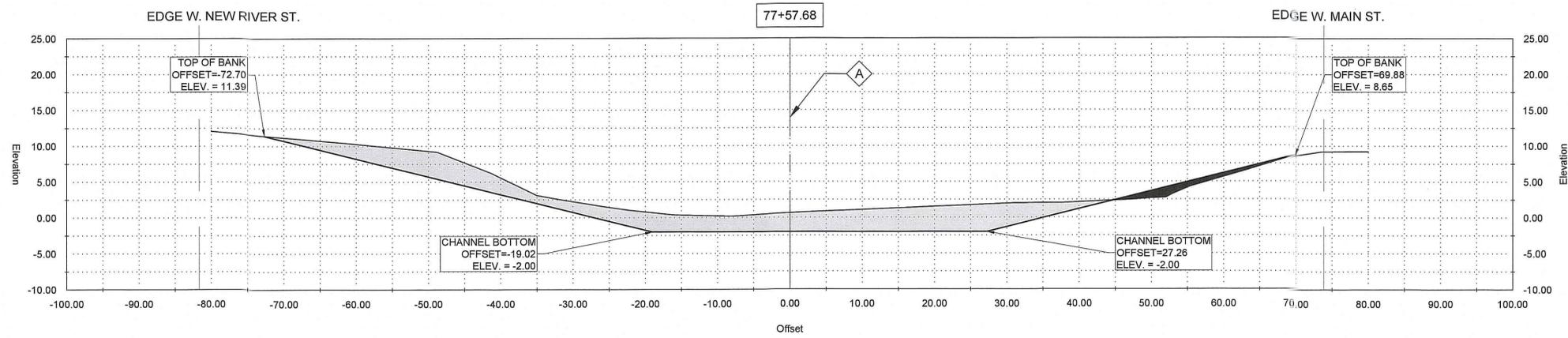
CROSS SECTIONS

SHEET ID

C13

SHEET SET

24 OF **82**



GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ∇
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 ∇ - SURVEYED ∇

AREA DRAINAGE EXCAVATION: 30.77 SY
 AREA EMBANKMENT: 1.61 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ∇
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 ∇ - SURVEYED ∇
 \diamond - EXISTING 18" RCP
 \diamond - 18" PLASTIC PIPE EXTENSION 18" SDR (37)
 \diamond - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 30.32 SY
 AREA EMBANKMENT: 1.66 SY

LEGEND:
 - EXISTING DRAIN PIPE TO REMAIN
 - EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ∇
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

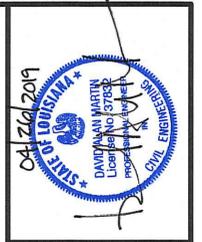
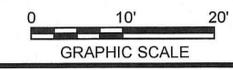
NOTES BY SYMBOL:
 ∇ - SURVEYED ∇

AREA DRAINAGE EXCAVATION: 25.20 SY
 AREA EMBANKMENT: 0.00 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ∇
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 ∇ - SURVEYED ∇

AREA DRAINAGE EXCAVATION: 38.92 SY
 AREA EMBANKMENT: 0.00 SY



SUBMITTED BY:
 PROJECT MANAGER
 LICENSE NO.

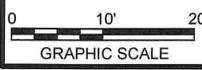
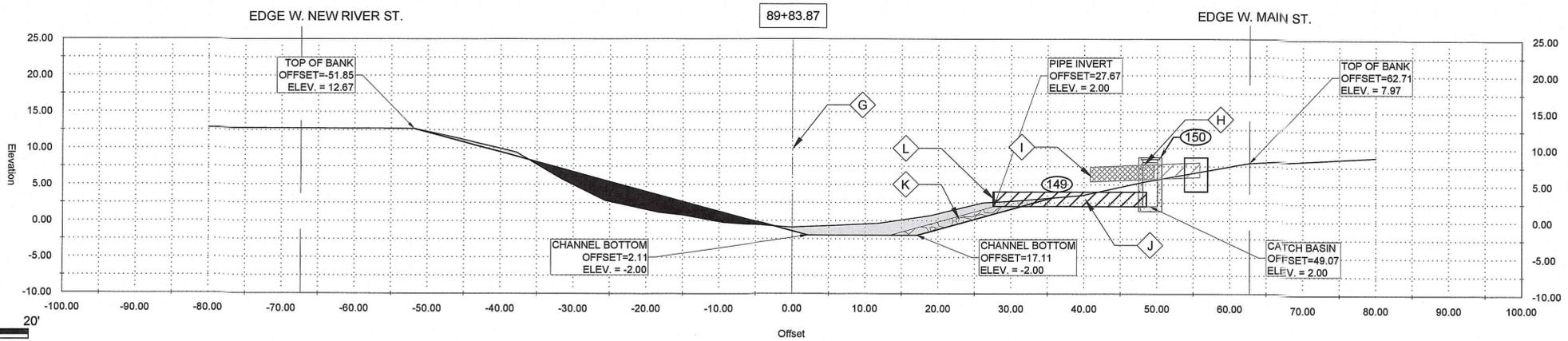
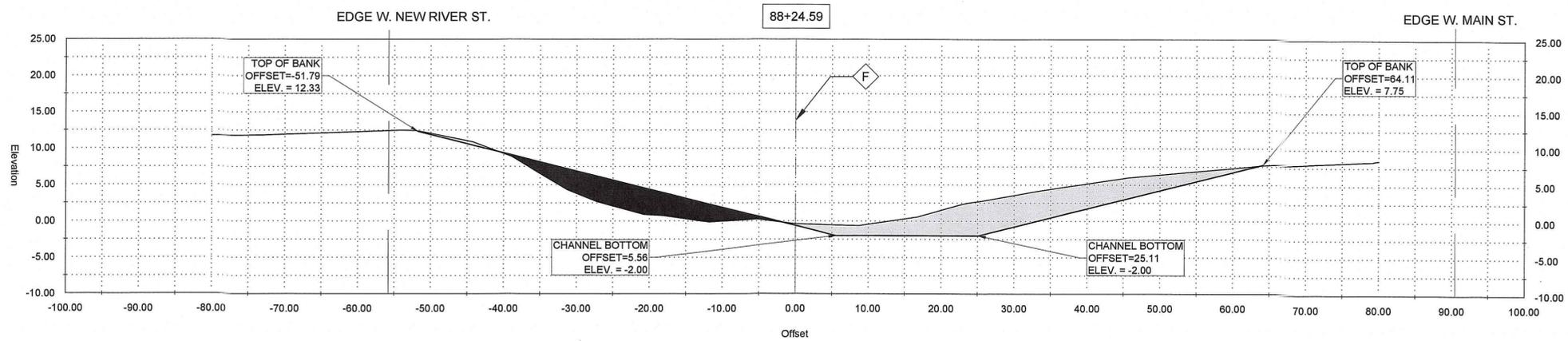
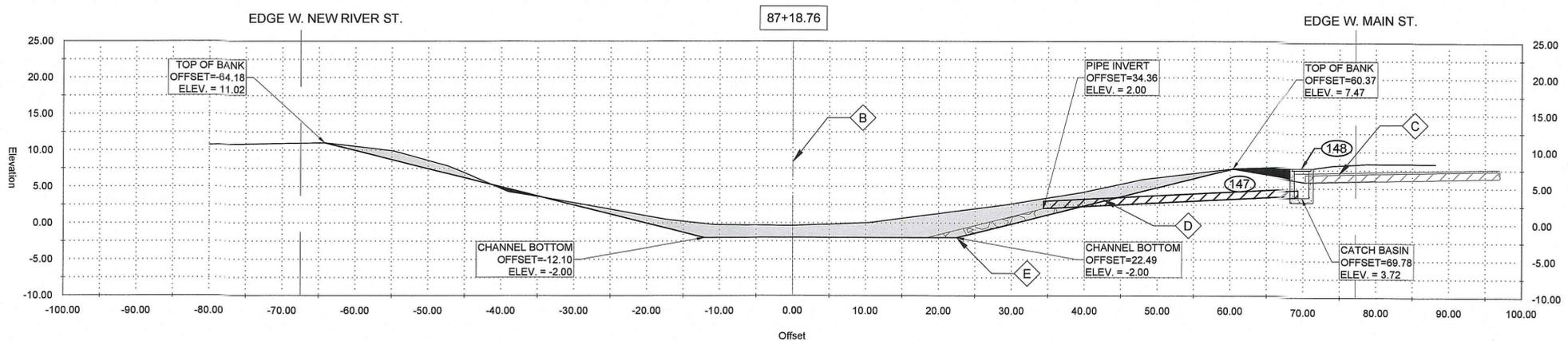
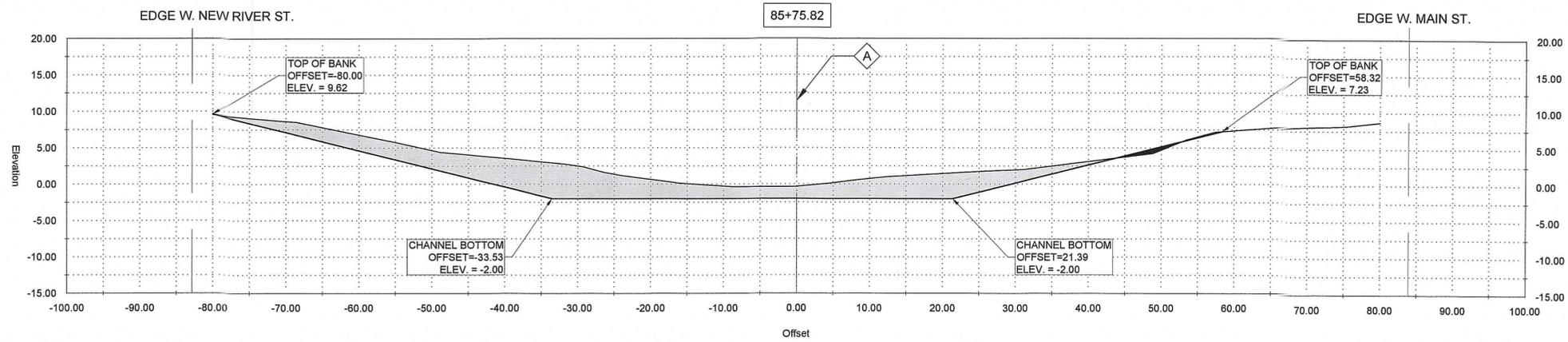
SUBMITTED BY:
 PRINCIPAL
 LICENSE NO.



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

DATE	DESIGNED BY	DRAWN BY	CHECKED BY
APRIL, 2019	DAM/ARF	AR/FRMM	DAM

NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737



GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ϵ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

$\diamond A$ - SURVEYED ϵ

AREA DRAINAGE EXCAVATION: 32.42 SY
 AREA EMBANKMENT: 0.32 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ϵ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

$\diamond B$ - SURVEYED ϵ

$\diamond C$ - EXISTING 12" RCP

$\diamond D$ - 15" PLASTIC PIPE EXTENSION 15" SDR (37)

$\diamond E$ - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 20.08 SY
 AREA EMBANKMENT: 0.68 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN

- EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ϵ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

$\diamond F$ - SURVEYED ϵ

AREA DRAINAGE EXCAVATION: 18.15 SY
 AREA EMBANKMENT: 9.47 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ϵ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

$\diamond G$ - SURVEYED ϵ

$\diamond H$ - EXISTING 24" CMP

$\diamond I$ - EXISTING FLAP GATE, TO BE REMOVED AND DELIVERED TO OWNER SPECIFIED LOCATION, TBD

$\diamond J$ - 24" PLASTIC PIPE EXTENSION 24" SDR (37)

$\diamond K$ - OUTFALL PROTECTION PER SHEET BM-02

$\diamond L$ - INSTALL NEW FLAP GATE ON PIPE EXTENSION

AREA DRAINAGE EXCAVATION: 6.61 SY
 AREA EMBANKMENT: 6.11 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN

- EXISTING DRAIN PIPE TO BE REMOVED



SUBMITTED BY:
 ANDREW R. FORD, E.L.
 PROJECT MANAGER
 LICENSE NO. _____

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 37832

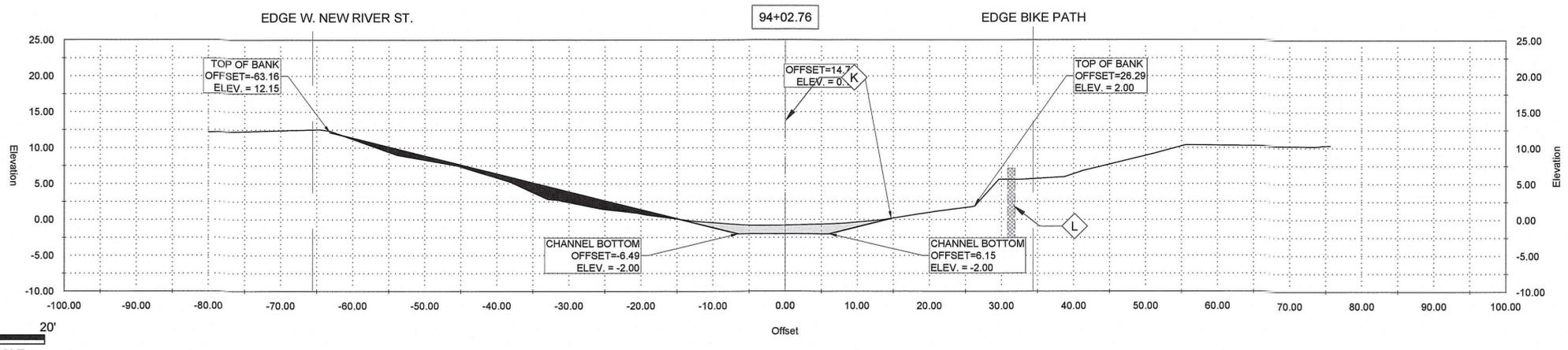
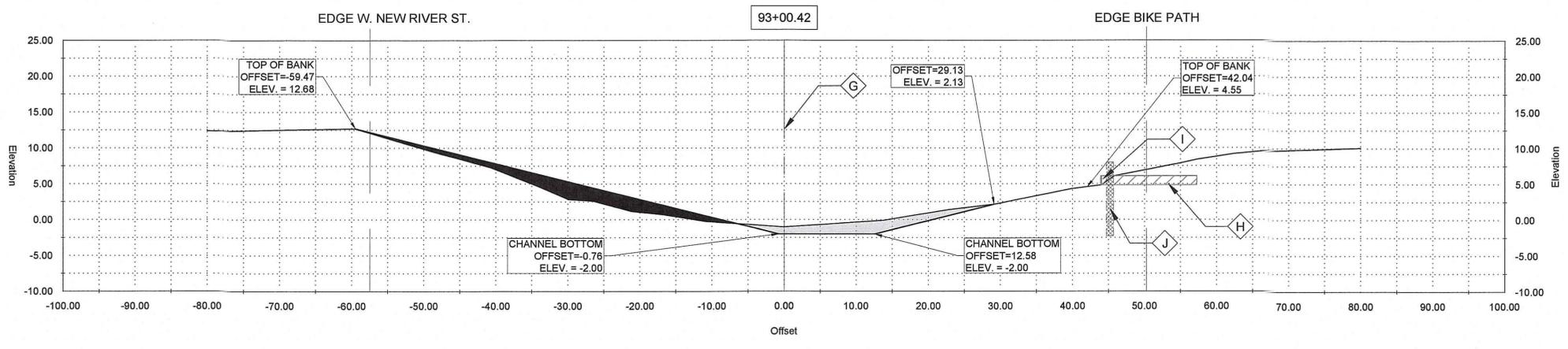
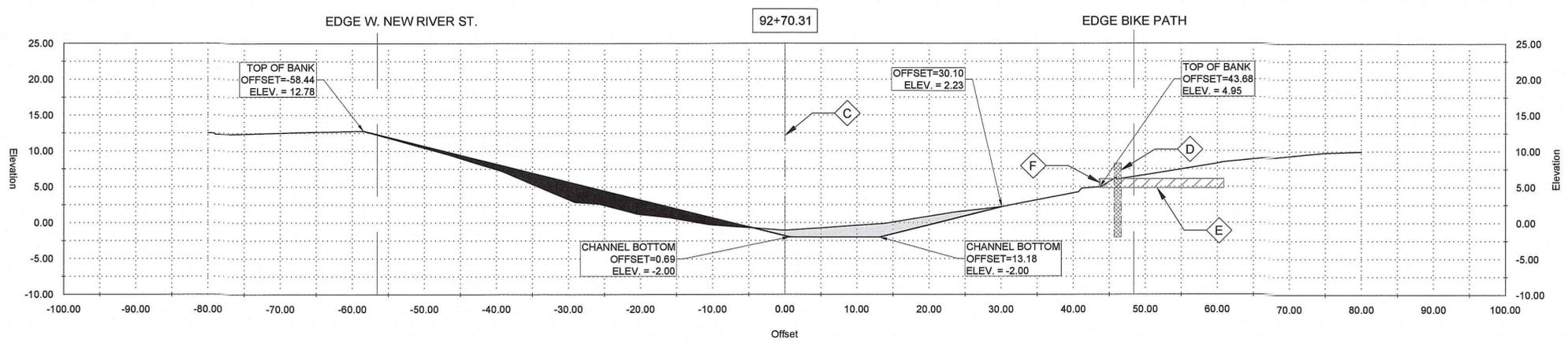
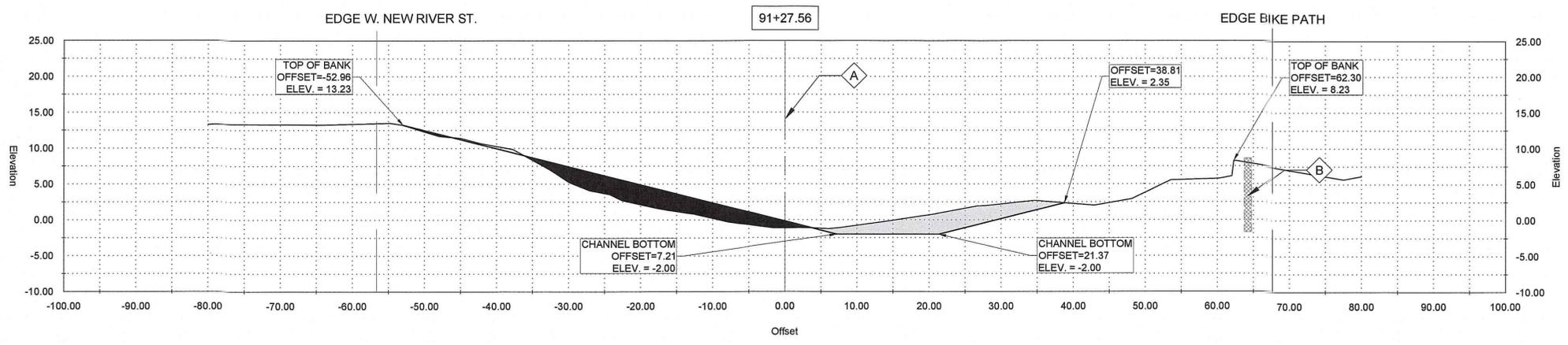


DATE	DESCRIPTION	BY	CHKD.
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DATE	DESIGNED BY	DRAWN BY	CHECKED BY
APRIL, 2019 <td>DAM/ARF <td>ARF/RMM <td>DAM </td></td></td>	DAM/ARF <td>ARF/RMM <td>DAM </td></td>	ARF/RMM <td>DAM </td>	DAM

LOUISIANA
 NEW RIVER CHANNEL IMPROVEMENTS
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 CROSS SECTIONS

SHEET ID
C15
 SHEET SET
26 OF 82



GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ξ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 \diamond A - SURVEYED ξ
 \diamond B - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 6.95 SY
 AREA EMBANKMENT: 8.48 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ξ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 \diamond C - SURVEYED ξ
 \diamond D - WOODEN BULKHEAD TO REMAIN
 \diamond E - EXISTING 15" CMP
 \diamond F - EXISTING FLAP GATE, TO REMAIN

AREA DRAINAGE EXCAVATION: 4.05 SY
 AREA EMBANKMENT: 6.63 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ξ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

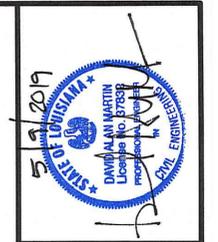
NOTES BY SYMBOL:
 \diamond G - SURVEYED ξ
 \diamond H - EXISTING 15" CMP
 \diamond I - EXISTING FLAP GATE, TO REMAIN
 \diamond J - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 4.12 SY
 AREA EMBANKMENT: 6.24 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ξ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 \diamond K - SURVEYED ξ
 \diamond L - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 2.87 SY
 AREA EMBANKMENT: 3.88 SY



SUBMITTED BY:
 ANDRE E. FORD, E.I.
 PROJECT MANAGER
 LICENSE NO. 37382

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 37382

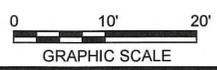


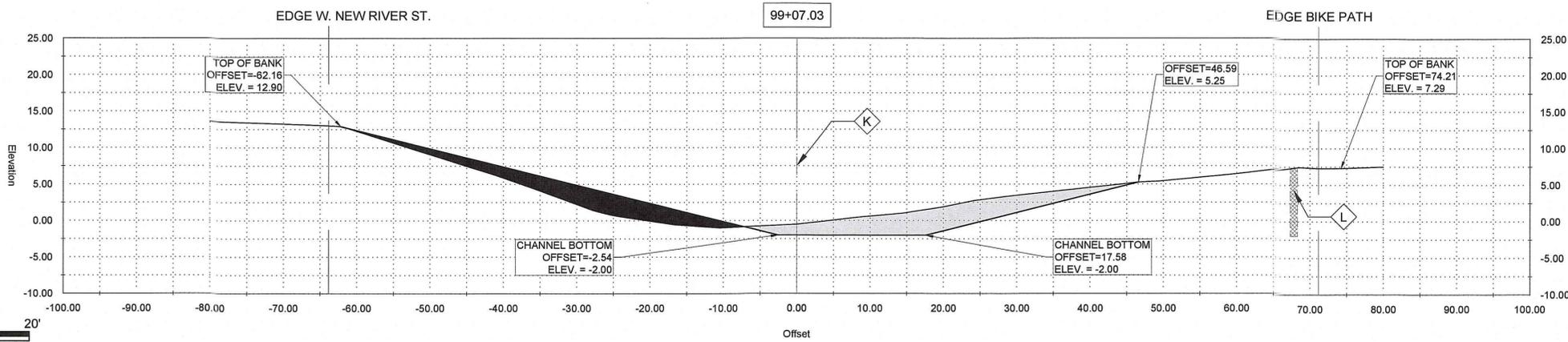
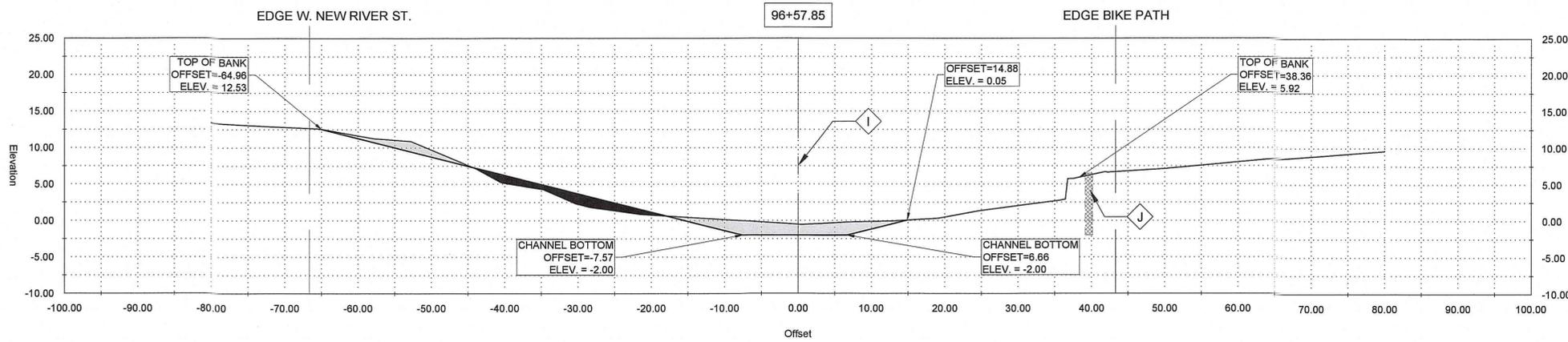
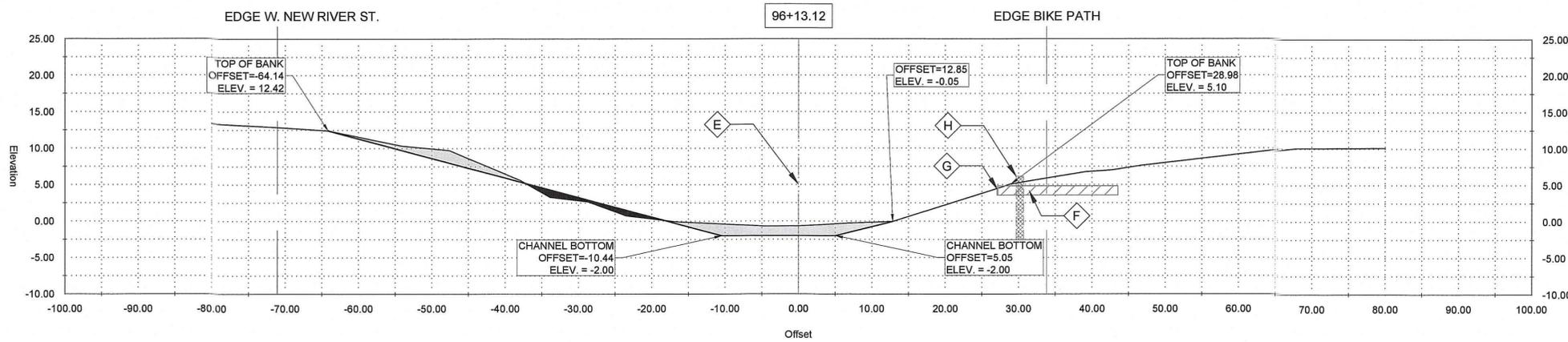
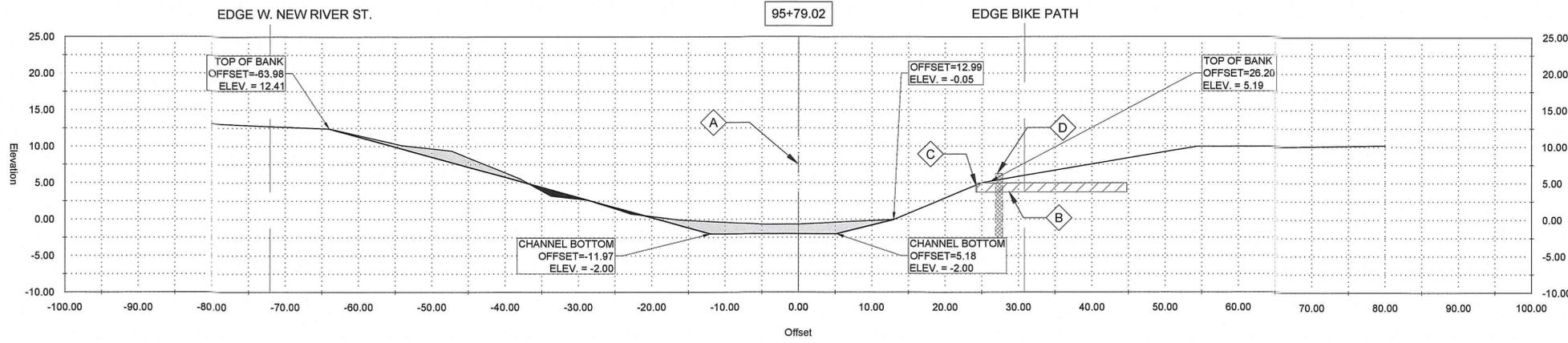
MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	

DESIGNED BY:	DRAWN BY:	CHECKED BY:
DAM/ARF	ARF/RMM	DAM

DATE:	DETAILED BY:	HDC PROJECT NO.
APRIL, 2019	ARF/RMM	2017-14

NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 CROSS SECTIONS



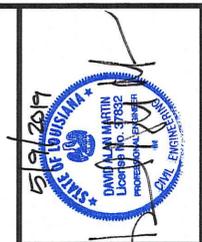


GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ϵ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- \diamond A - SURVEYED ϵ
- \diamond B - EXISTING 15" CMP
- \diamond C - EXISTING FLAP GATE, TO REMAIN
- \diamond D - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 6.19 SY
 AREA EMBANKMENT: 0.47 SY



SUBMITTED BY:
 ANDRE F. FORD, E.I.
 PROJECT MANAGER

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ϵ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- \diamond E - SURVEYED ϵ
- \diamond F - EXISTING 15" CMP
- \diamond G - EXISTING FLAP GATE, TO REMAIN
- \diamond H - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 6.07 SY
 AREA EMBANKMENT: 1.04 SY

MARK	DESCRIPTION	DATE	BY	CHKD.
-	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ϵ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- \diamond I - SURVEYED ϵ
- \diamond J - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 6.00 SY
 AREA EMBANKMENT: 2.53 SY

DESIGNED BY:	DAM/ARF	DRAWN BY:	ARF/RMM	CHECKED BY:	DAM
DATE:	APRIL, 2019	DETAILED BY:	ARF/RMM	HDC PROJECT NO.:	2017-14

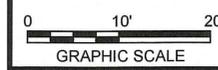
GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ϵ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

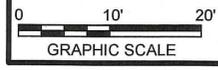
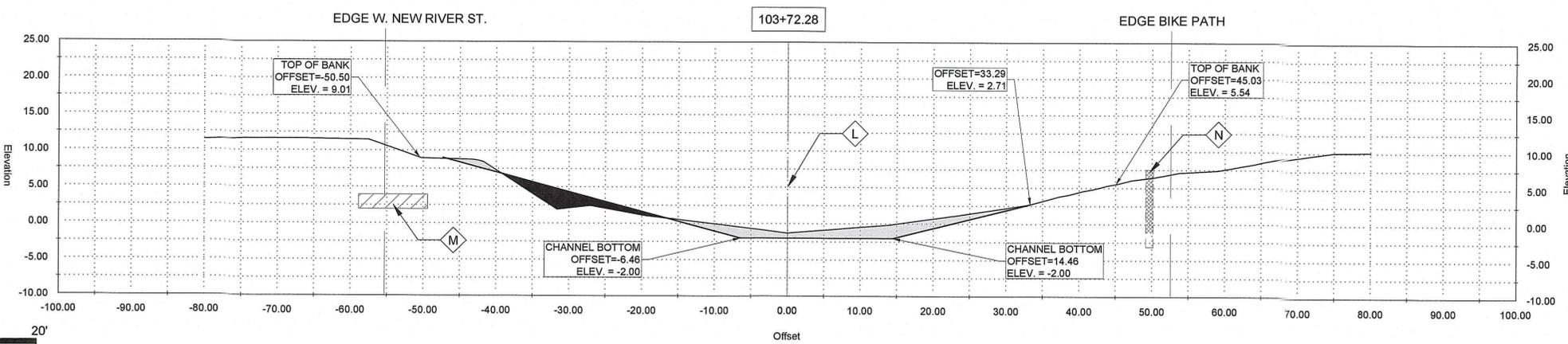
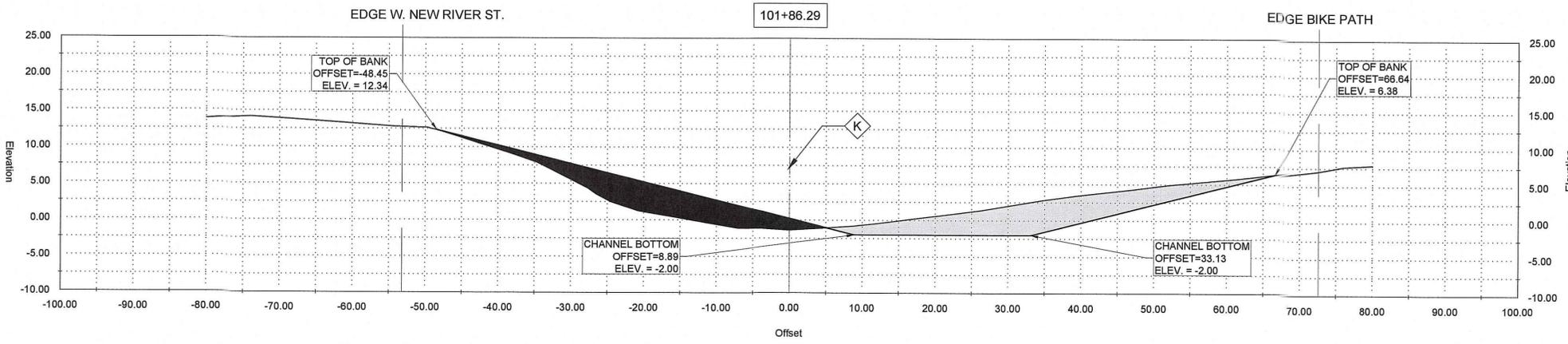
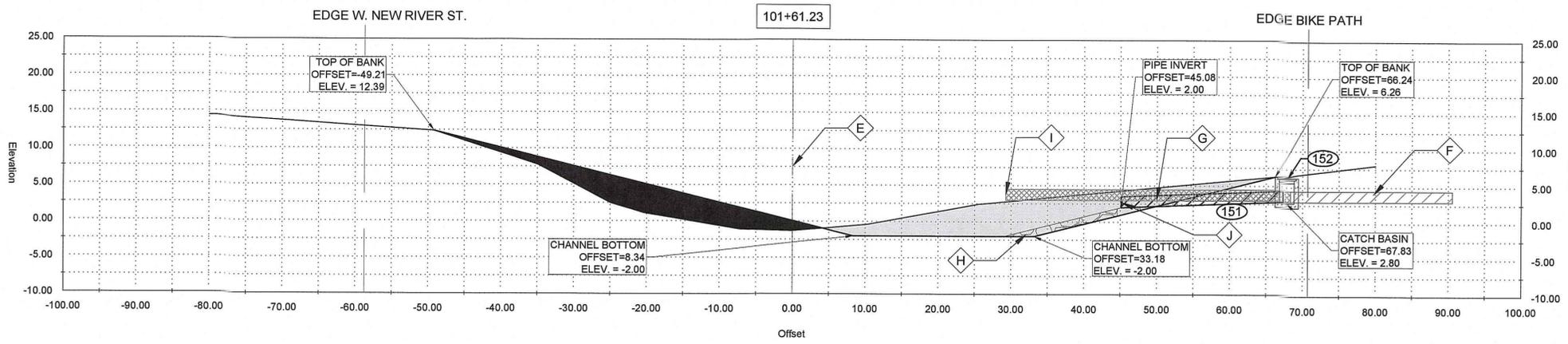
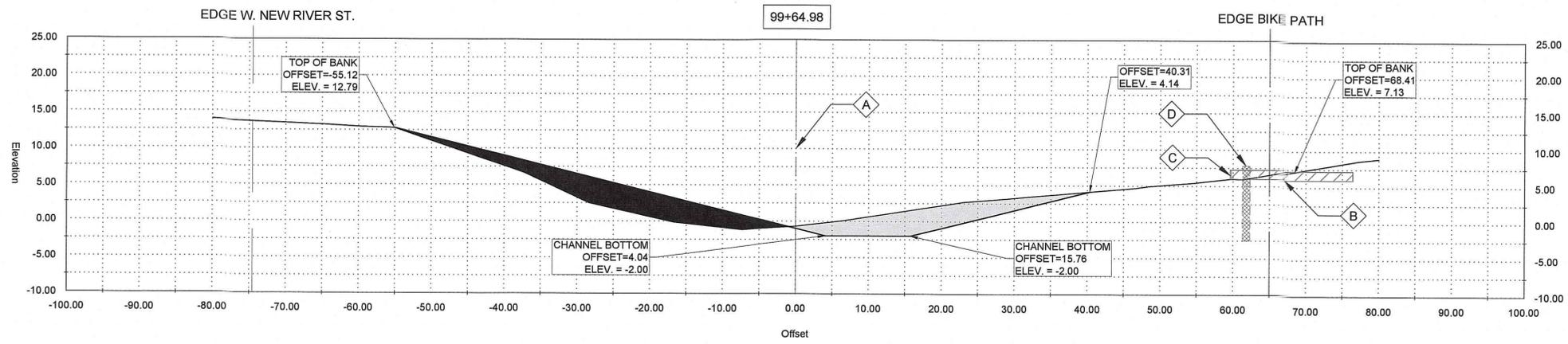
NOTES BY SYMBOL:

- \diamond K - SURVEYED ϵ
- \diamond L - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 11.87 SY
 AREA EMBANKMENT: 9.17 SY

NEW RIVER CHANNEL IMPROVEMENTS	LOUISIANA
GONZALES	EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
	42077 CHURCHPOINT ROAD, GONZALES, LA 70737
CROSS SECTIONS	
SHEET ID	
C17	
SHEET SET	
28 OF 82	





GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED CL
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- ⬡ - SURVEYED CL
- ⬡ - EXISTING 15" CMP
- ⬡ - EXISTING FLAP GATE, TO REMAIN
- ⬡ - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 9.22 SY
 AREA EMBANKMENT: 12.30 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED CL
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- ⬡ - SURVEYED CL
- ⬡ - EXISTING 18" CMP
- ⬡ - 18" PLASTIC PIPE EXTENSION 18" SDR (37)
- ⬡ - OUTFALL PROTECTION PER SHEET BM-02
- ⬡ - EXISTING FLAP GATE, TO BE REMOVED AND DELIVERED TO OWNER SPECIFIED LOCATION, TBD
- ⬡ - INSTALL NEW FLAP GATE ON PIPE EXTENSION

AREA DRAINAGE EXCAVATION: 19.23 SY
 AREA EMBANKMENT: 12.81 SY

LEGEND:

- ▨ - EXISTING DRAIN PIPE TO REMAIN
- ▩ - EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED CL
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- ⬡ - SURVEYED CL

AREA DRAINAGE EXCAVATION: 16.52 SY
 AREA EMBANKMENT: 12.83 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED CL
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- ⬡ - SURVEYED CL
- ⬡ - EXISTING 24" STORM DRAIN PIPE AND STRUCTURE TO REMAIN
- ⬡ - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 6.07 SY
 AREA EMBANKMENT: 2.95 SY



SUBMITTED BY:
 ANDREW FORD, P.E.
 PROJECT MANAGER
 LICENSE NO. 57325

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 57325



MARK	DATE	BY	CHKD.	DESCRIPTION
	04/2019	ARF	DAM	RELEASED FOR BIDS & CONSTRUCTION

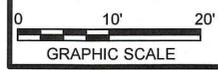
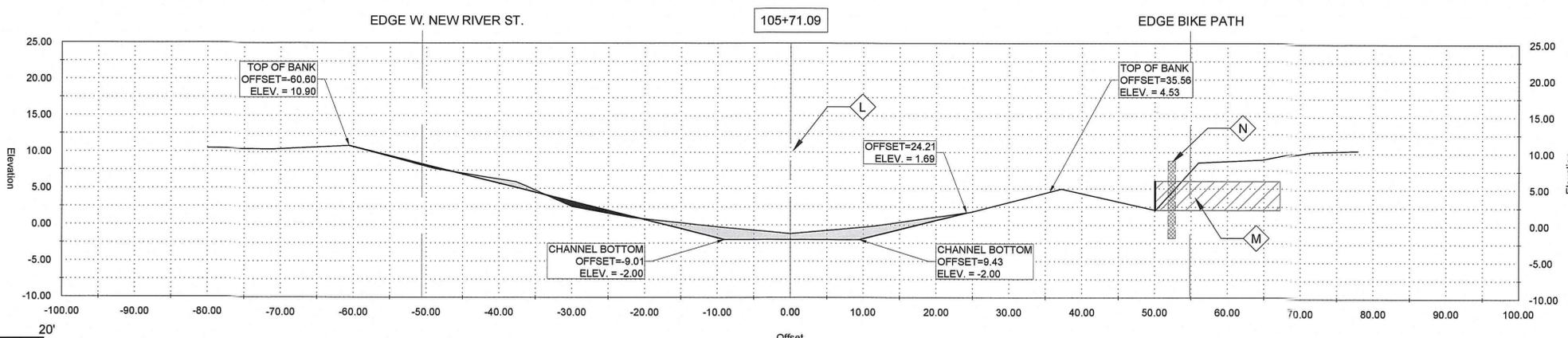
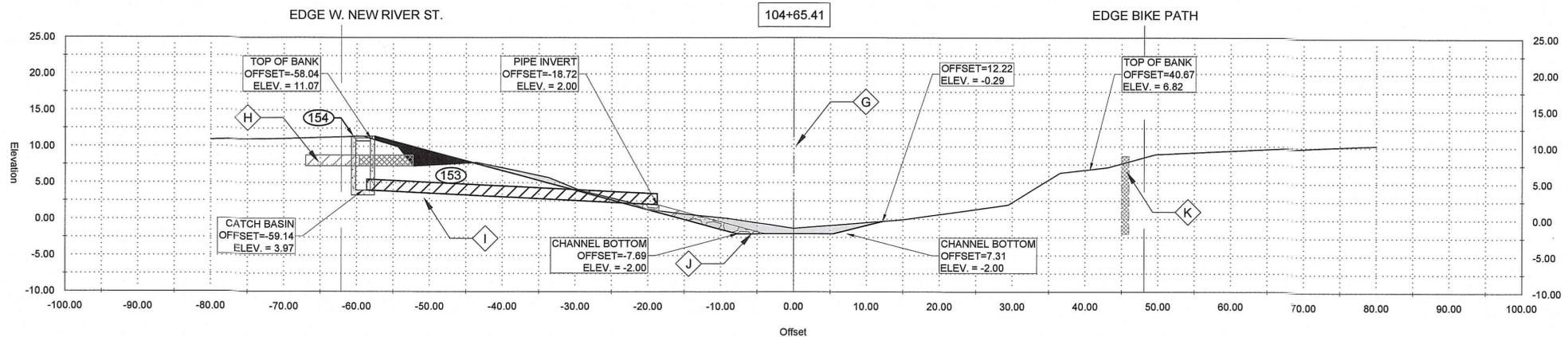
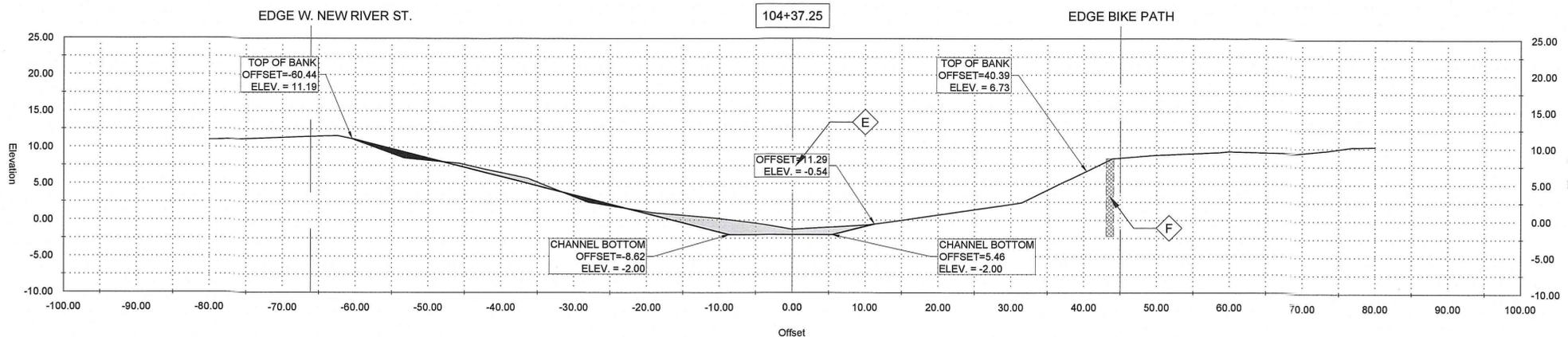
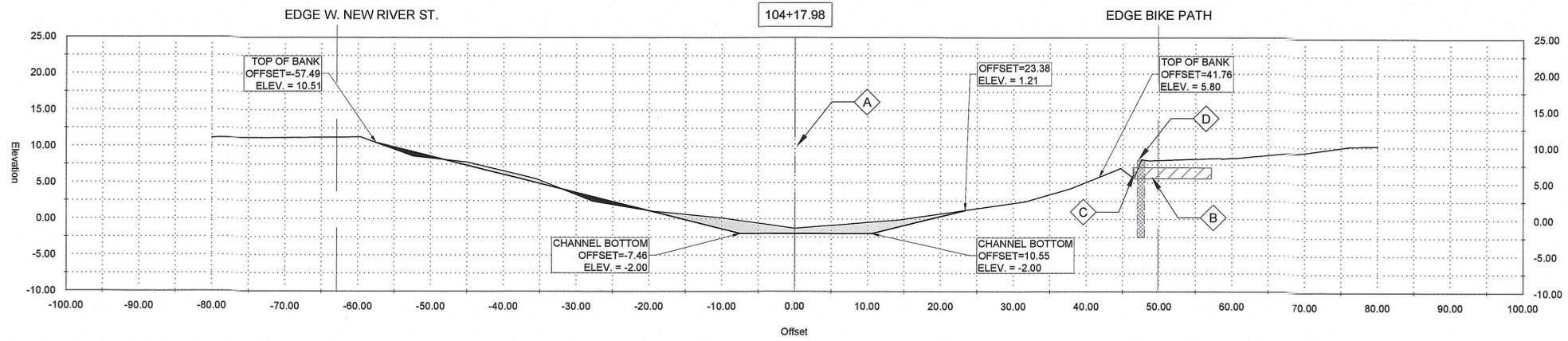
DESIGNED BY: DAM/ARF
 DRAWN BY: ARF/RMM
 CHECKED BY: DAM

DATE: APRIL, 2019
 DETAILED BY: ARF/RMM
 HDC PROJECT NO.: 2017-14

NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737

REVISION RECORD

CROSS SECTIONS



GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ζ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- A - SURVEYED ζ
- B - EXISTING 18" CMP
- C - EXISTING FLAP GATE, TO REMAIN
- D - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 5.30 SY
 AREA EMBANKMENT: 0.72 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ζ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- E - SURVEYED ζ
- F - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 4.41 SY
 AREA EMBANKMENT: 0.83 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ζ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- G - SURVEYED ζ
- H - EXISTING 18" CMP
- I - 18" PLASTIC PIPE EXTENSION 18" SDR (37)
- J - OUTFALL PROTECTION PER SHEET BM-02
- K - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 4.37 SY
 AREA EMBANKMENT: 1.79 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN
- EXISTING DRAIN PIPE TO BE REMOVED

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ζ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- L - SURVEYED ζ
- M - EXISTING 48" CMP
- N - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 5.35 SY
 AREA EMBANKMENT: 0.74 SY

STATE OF LOUISIANA
 PROFESSIONAL ENGINEER
 LICENSE NO. 37101

STATE OF LOUISIANA
 PROFESSIONAL ENGINEER
 LICENSE NO. 37102

DATE: APRIL, 2019
 DESIGNED BY: DAM/ARF
 DRAWN BY: ARF/RMM
 CHECKED BY: DAM

LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737

REVISION RECORD

MARK	DESCRIPTION	DATE	BY	CHKD.
ARF	RELEASED FOR BIDS & CONSTRUCTION	04/20/19	ARF	DAM

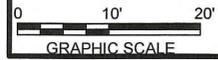
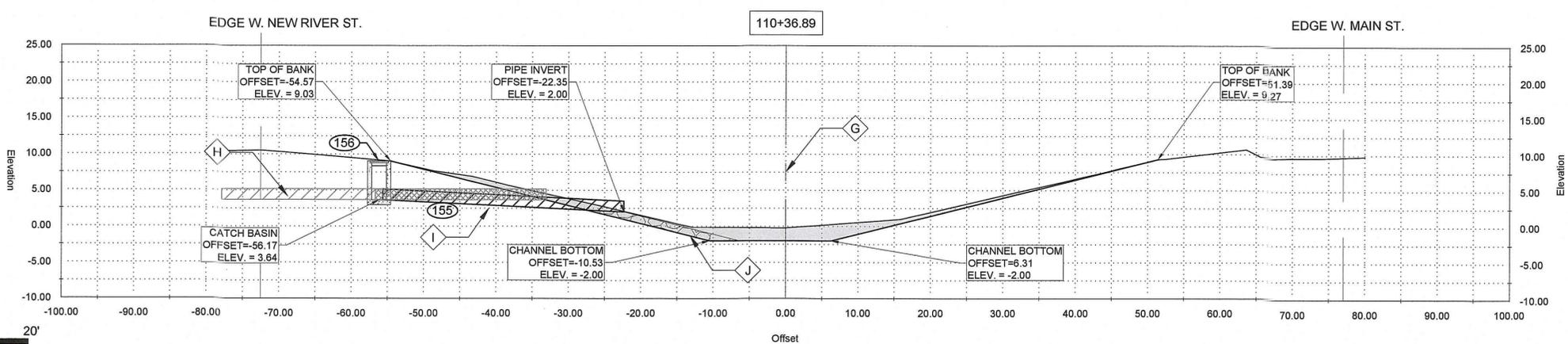
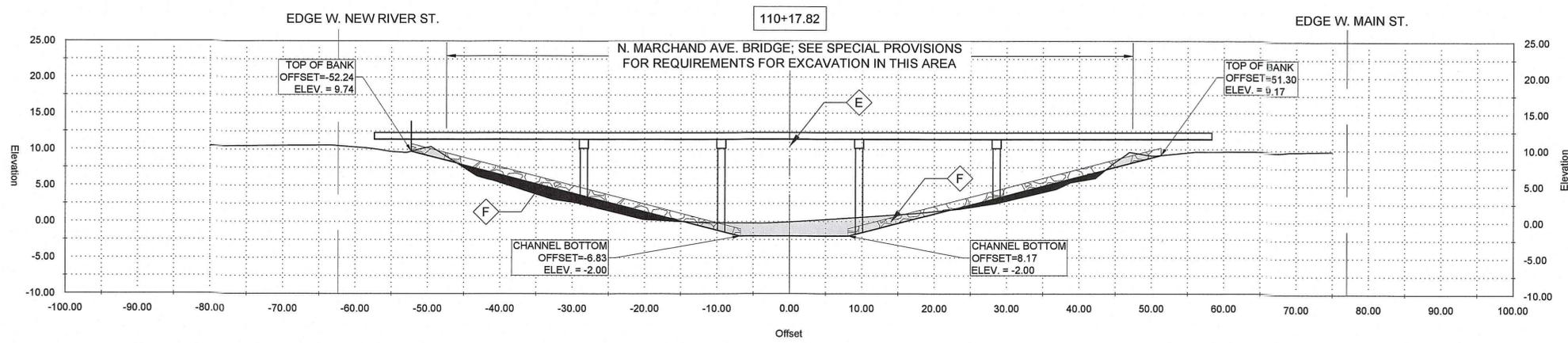
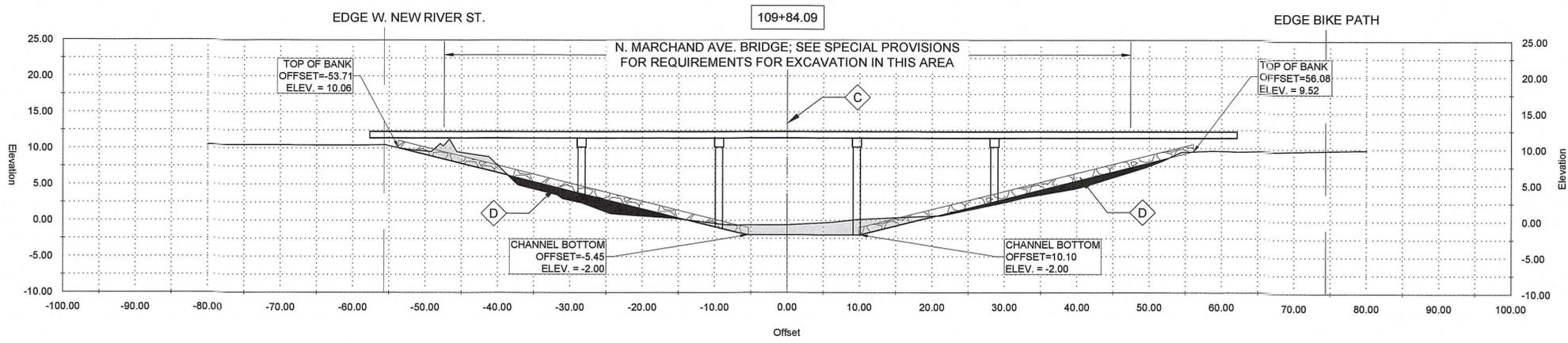
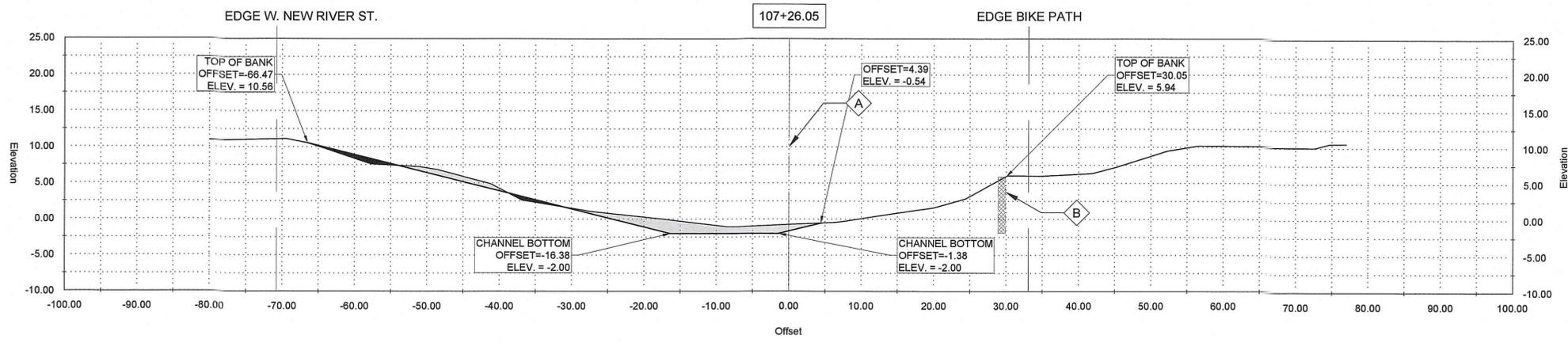
HDC PROJECT NO. 2017-14

NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737

CROSS SECTIONS

SHEET ID
C19

SHEET SET
30 OF 82



GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond A$ - SURVEYED ζ
- $\diamond B$ - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 4.76 SY
AREA EMBANKMENT: 0.71 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond C$ - SURVEYED ζ
- $\diamond D$ - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 6.44 SY
AREA EMBANKMENT: 4.97 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond E$ - SURVEYED ζ
- $\diamond F$ - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 7.04 SY
AREA EMBANKMENT: 5.36 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond G$ - SURVEYED ζ
- $\diamond H$ - EXISTING 15" RCP
- $\diamond I$ - 15" PLASTIC PIPE EXTENSION (15" SDR (37))
- $\diamond J$ - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 10.12 SY
AREA EMBANKMENT: 0.00 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN
- EXISTING DRAIN PIPE TO BE REMOVED

REVISION RECORD

MARK	DATE	DESCRIPTION	BY	CHKD
ARF	04/2019	RELEASED FOR BIDS & CONSTRUCTION	ARF	DAM

DESIGNED BY: DAM/ARF
DRAWN BY: ARF/RMM
CHECKED BY: DAM

DATE: APRIL, 2019
DETAILED BY: ARF/RMM
HDC PROJECT NO.: 2017-14

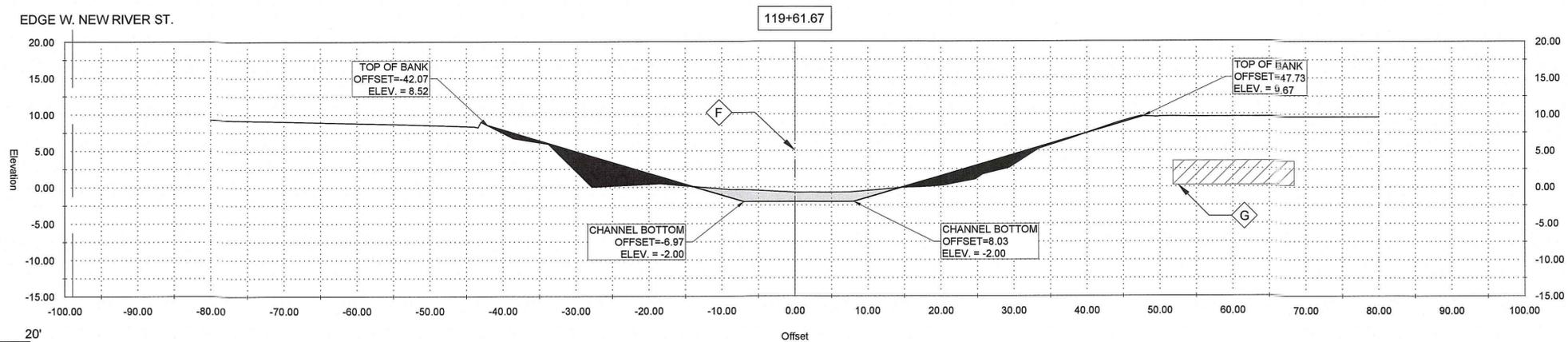
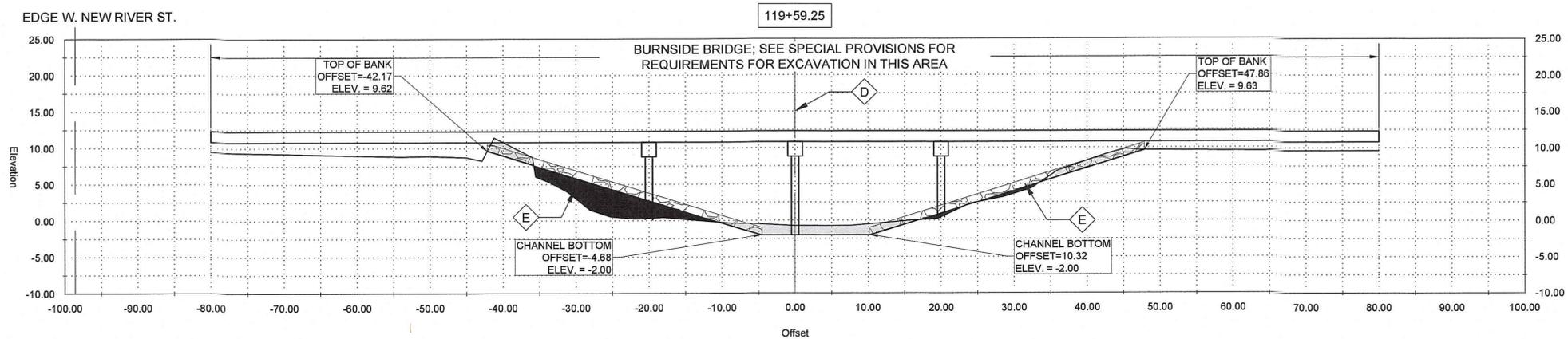
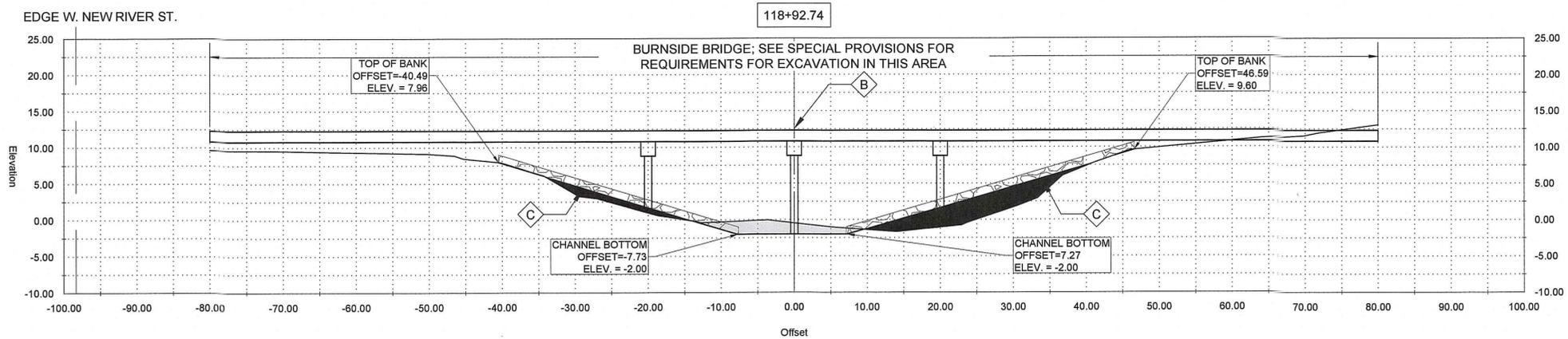
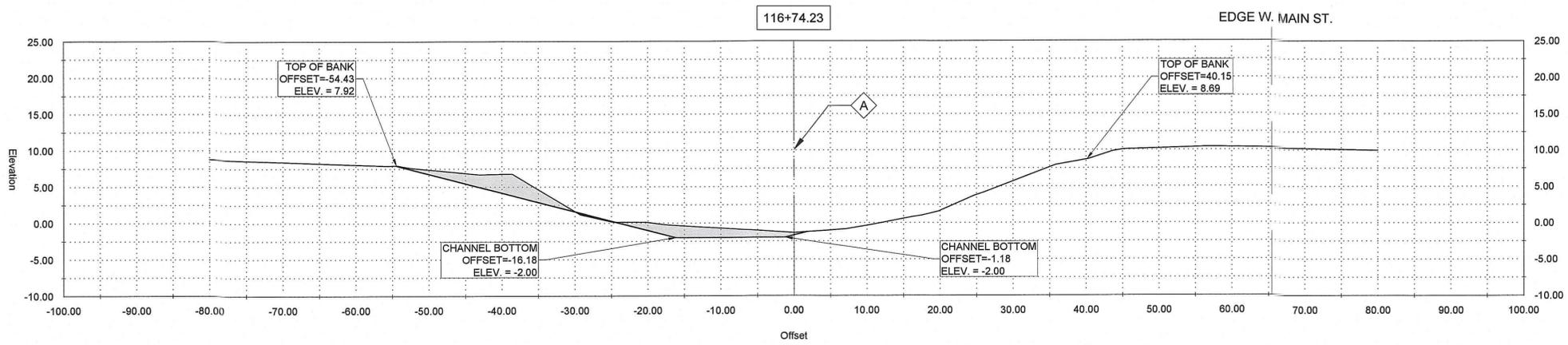
LOUISIANA
NEW RIVER CHANNEL IMPROVEMENTS
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737

STATE OF LOUISIANA
DAVID A. MARTIN, P.E.
Professional Engineer License No. 37552

HDC
H. Davis Cole & Associates, LLC
Consulting Engineers
NEW ORLEANS, LA

SHEET ID
C20

SHEET SET
31 OF 82



GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ξ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\diamond A - SURVEYED ξ

AREA DRAINAGE EXCAVATION: 6.59 SY
AREA EMBANKMENT: 0.08 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ξ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\diamond B - SURVEYED ξ

\diamond C - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 3.17 SY
AREA EMBANKMENT: 8.55 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ξ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\diamond D - SURVEYED ξ

\diamond E - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 5.55 SY
AREA EMBANKMENT: 6.71 SY

GENERAL NOTES:

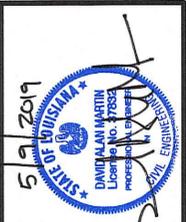
1. OFFSETS SHOWN ARE TO SURVEYED ξ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\diamond F - SURVEYED ξ

\diamond G - EXISTING 40" CMP TO REMAIN

AREA DRAINAGE EXCAVATION: 3.40 SY
AREA EMBANKMENT: 7.24 SY



SUBMITTED BY:
ANDRE R. FORD, E.I.
PROJECT MANAGER

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL

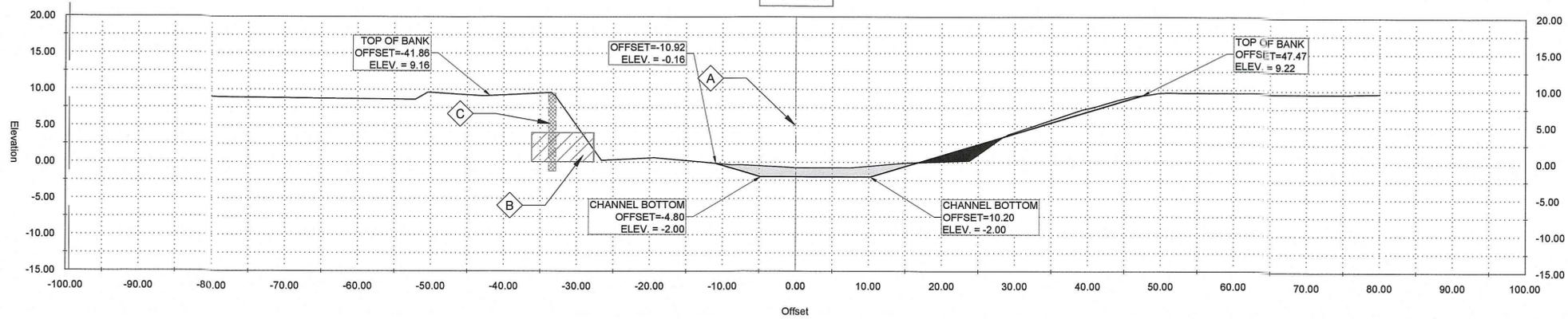


MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

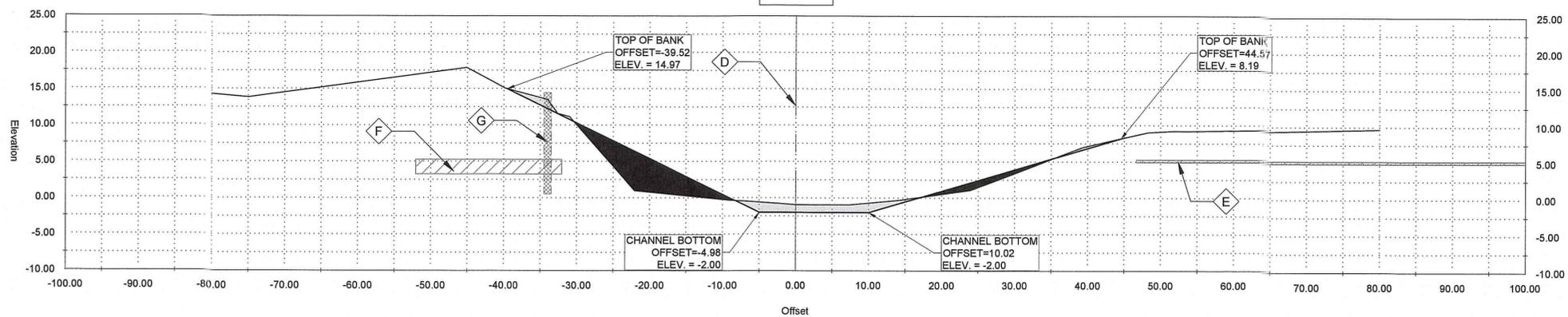
DESIGNED BY:	DAM/ARF	DRAWN BY:	ARF/RMM	CHECKED BY:	DAM
DATE:	APRIL, 2019	DETAILED BY:	ARF/RMM	HDC PROJECT NO.	2017-14

LOUISIANA
GONZALES
NEW RIVER CHANNEL IMPROVEMENTS
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737

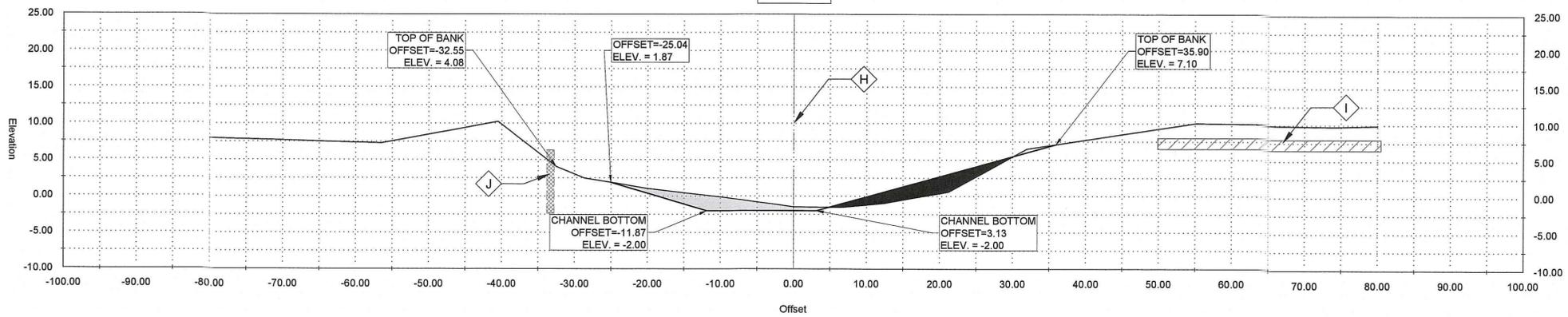
EDGE W. NEW RIVER ST.



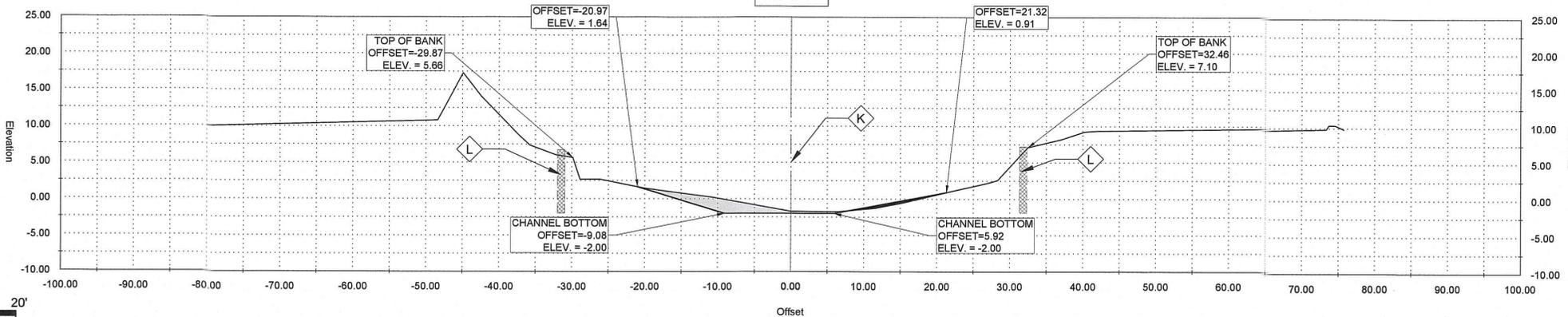
120+18.05



121+73.02



122+34.45



GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED CL
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 A - SURVEYED CL
 B - EXISTING 48" CMP TO REMAIN
 C - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 3.88 SY
 AREA EMBANKMENT: 1.20 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED CL
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 D - SURVEYED CL
 E - EXISTING 4" RCP TO REMAIN
 F - EXISTING 24" CMP TO REMAIN
 G - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 3.33 SY
 AREA EMBANKMENT: 7.67

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED CL
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

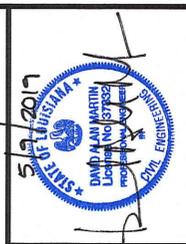
NOTES BY SYMBOL:
 H - SURVEYED CL
 I - EXISTING 18" PVC TO REMAIN
 J - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 3.54 SY
 AREA EMBANKMENT: 3.86 SY

GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED CL
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 K - SURVEYED CL
 L - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 2.59 SY
 AREA EMBANKMENT: 0.30 SY



SUBMITTED BY: EL PROJECT MANAGER
 LICENSE NO.
 SUBMITTED BY: SRSS PRINCIPAL
 LICENSE NO.



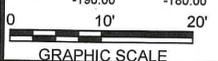
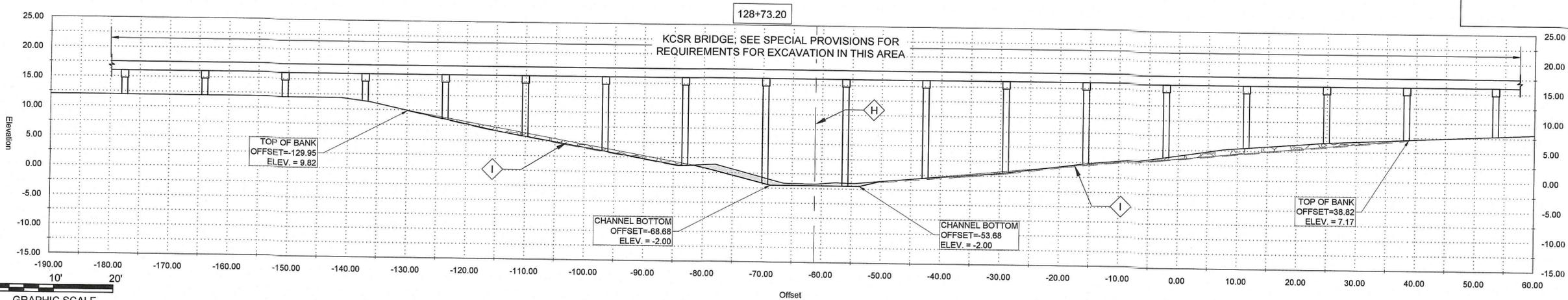
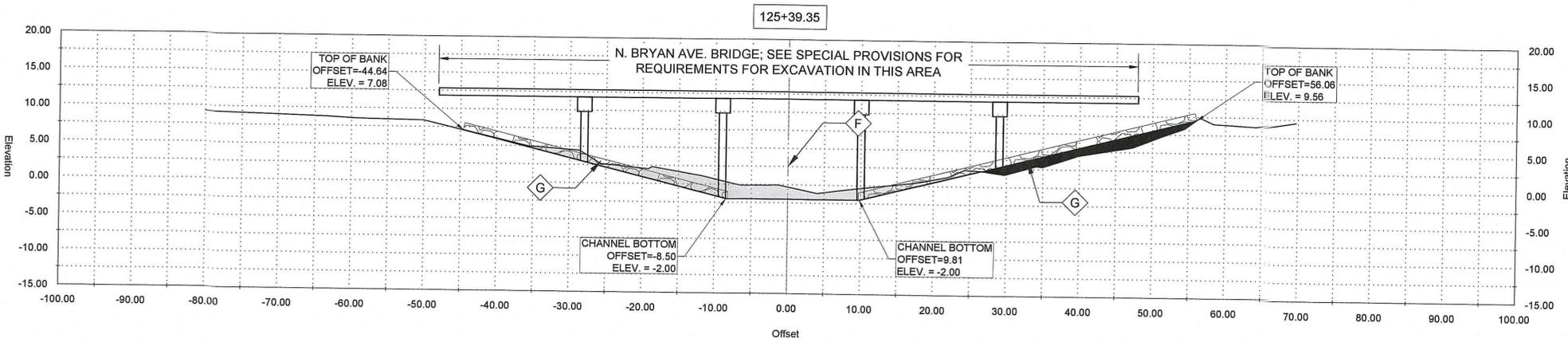
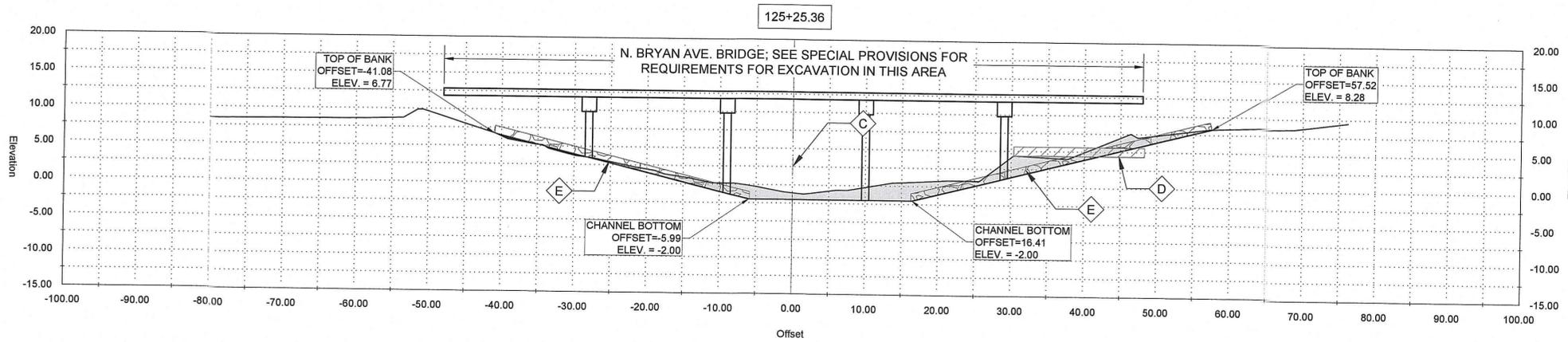
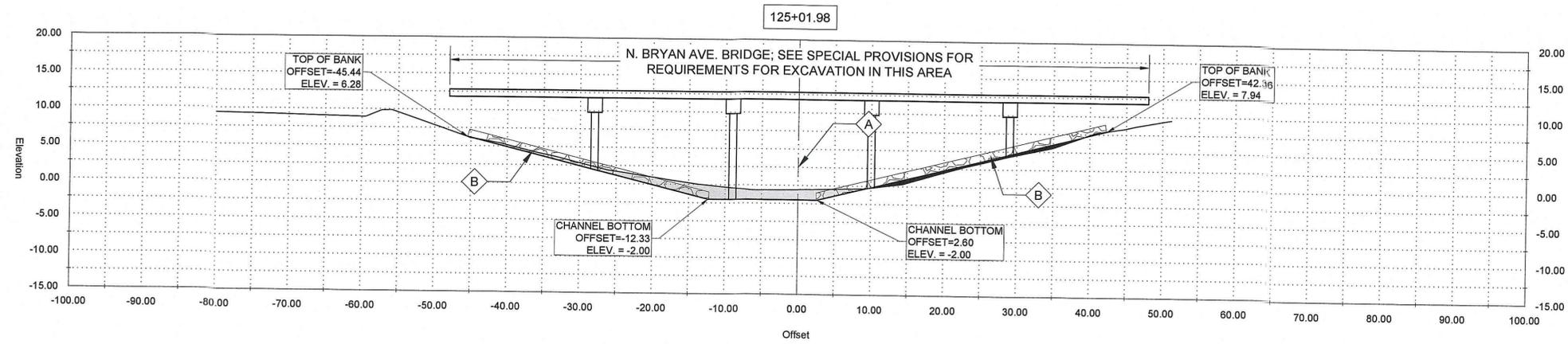
MARK	DATE	DESCRIPTION	BY	CHKD.
	04/20/19	RELEASED FOR BIDS & CONSTRUCTION	ARF	DAM

DATE	DESIGNED BY:	DRAWN BY:	CHECKED BY:
APRIL, 2019	DAM/ARF	ARF/RMM	DAM

LOUISIANA
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737

NEW RIVER CHANNEL IMPROVEMENTS
 GONZALES
 CROSS SECTIONS

SHEET ID
G23
 SHEET SET
34 OF **82**



GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond A$ - SURVEYED ζ
- $\diamond B$ - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 5.38 SY
 AREA EMBANKMENT: 1.17 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond C$ - SURVEYED ζ
- $\diamond D$ - EXISTING 15" CMP TO REMAIN
- $\diamond E$ - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 11.68 SY
 AREA EMBANKMENT: 0.25 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond F$ - SURVEYED ζ
- $\diamond G$ - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 8.43 SY
 AREA EMBANKMENT: 3.79 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond H$ - SURVEYED ζ
- $\diamond I$ - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 2.10 SY
 AREA EMBANKMENT: 0.00 SY



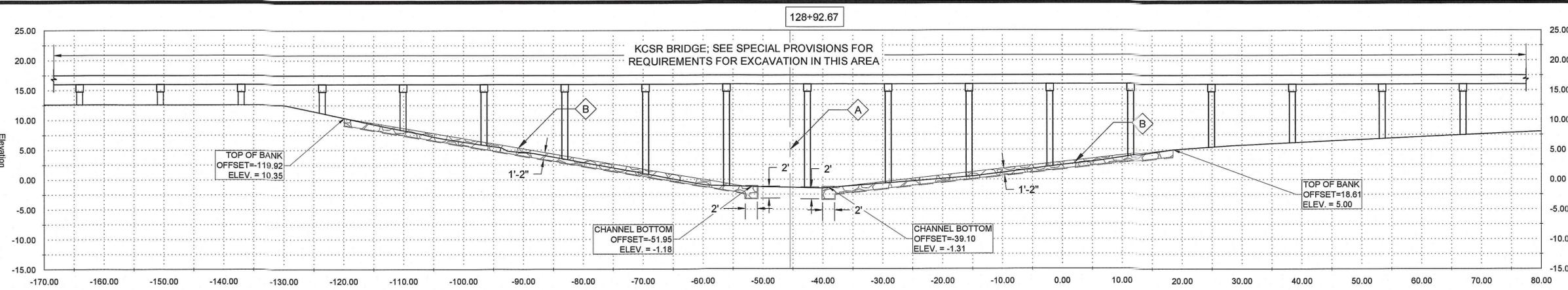
SUBMITTED BY:
 ANDRE R. FORD, E.L.
 PROJECT MANAGER
 LICENSE NO. 37832
 SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 37832



MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/20/19	ARF	DAM

DATE	DESIGNED BY	DRAWN BY	CHECKED BY
APRIL, 2019	DAM/ARF	ARF/RMM	DAM

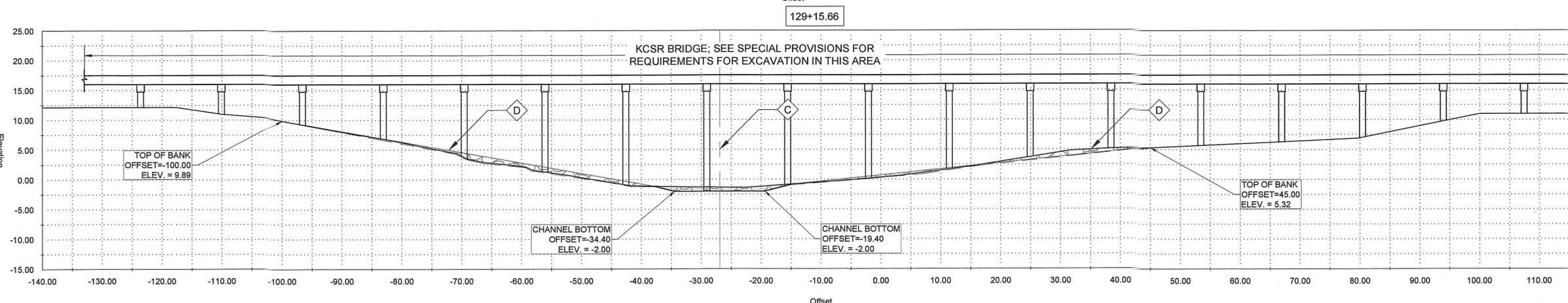
NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 CROSS SECTIONS



GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{L}
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 $\diamond A$ - SURVEYED \mathcal{L}
 $\diamond B$ - RIP RAP PER SECTION 02711

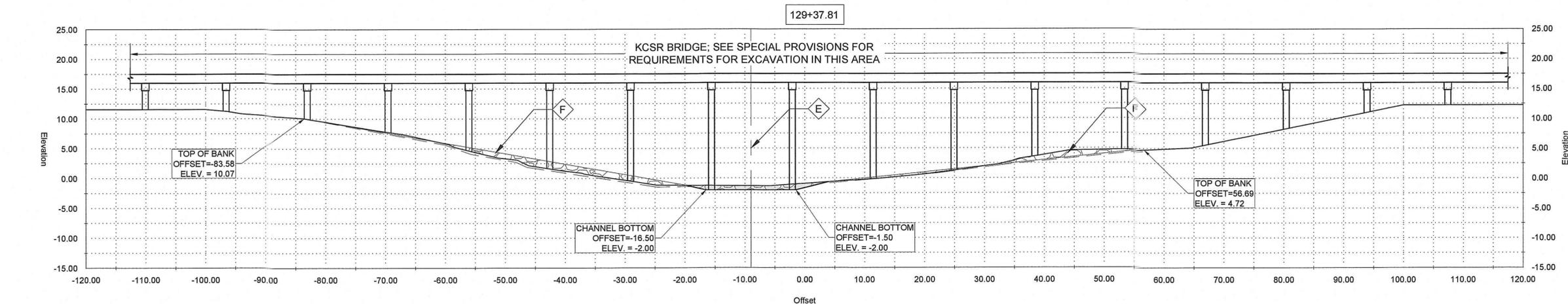
AREA DRAINAGE EXCAVATION: 0.00 SY
 AREA EMBANKMENT: 0.00 SY



GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{L}
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 $\diamond C$ - SURVEYED \mathcal{L}
 $\diamond D$ - RIP RAP PER SECTION 02711 (10 LB.)

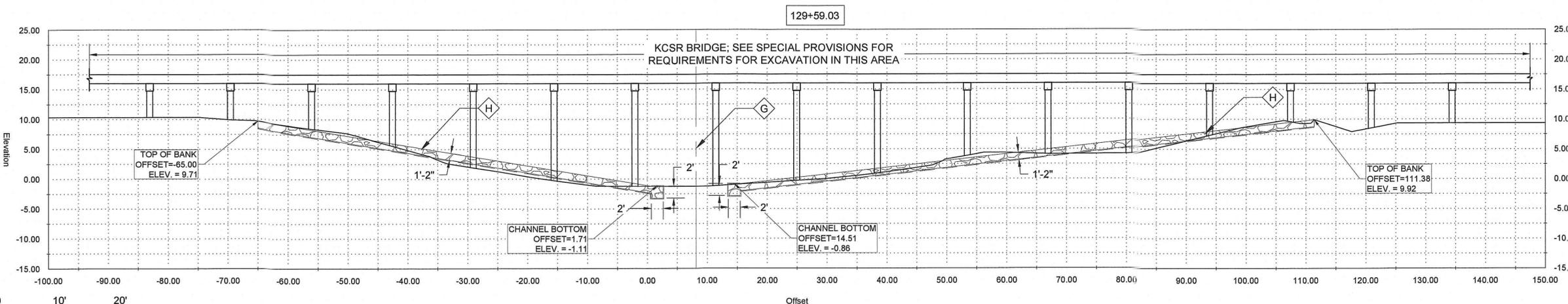
AREA DRAINAGE EXCAVATION: 1.55 SY
 AREA EMBANKMENT: 0.00 SY



GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{L}
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 $\diamond E$ - SURVEYED \mathcal{L}
 $\diamond F$ - RIP RAP PER SECTION 02711 (10 LB.)

AREA DRAINAGE EXCAVATION: 1.70 SY
 AREA EMBANKMENT: 0.00 SY



GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{L}
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 $\diamond G$ - SURVEYED \mathcal{L}
 $\diamond H$ - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 0.00 SY
 AREA EMBANKMENT: 0.00 SY



SUBMITTED BY: ANDRÉ R. FORD, E.I. PROJECT MANAGER
 LICENSE NO. 37832

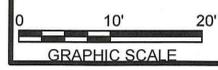
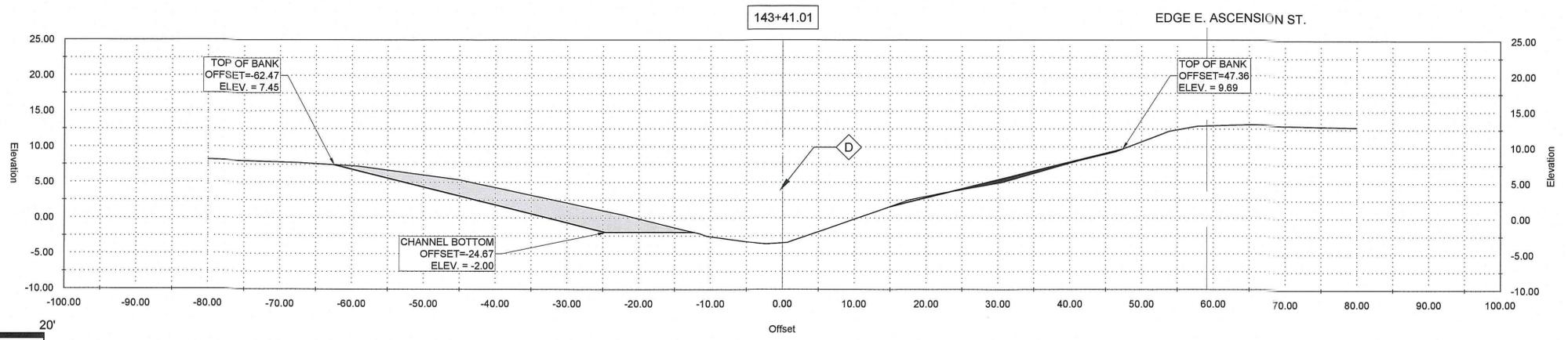
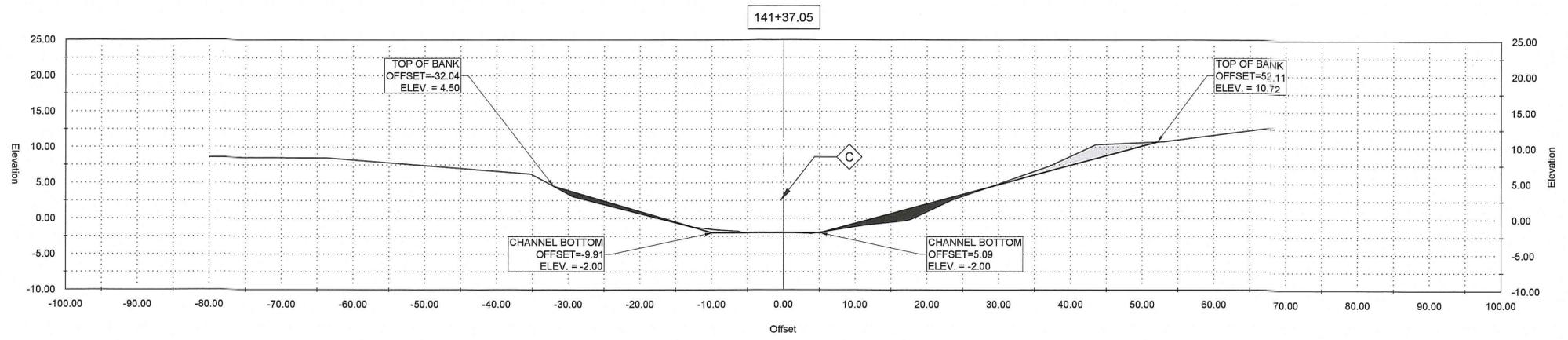
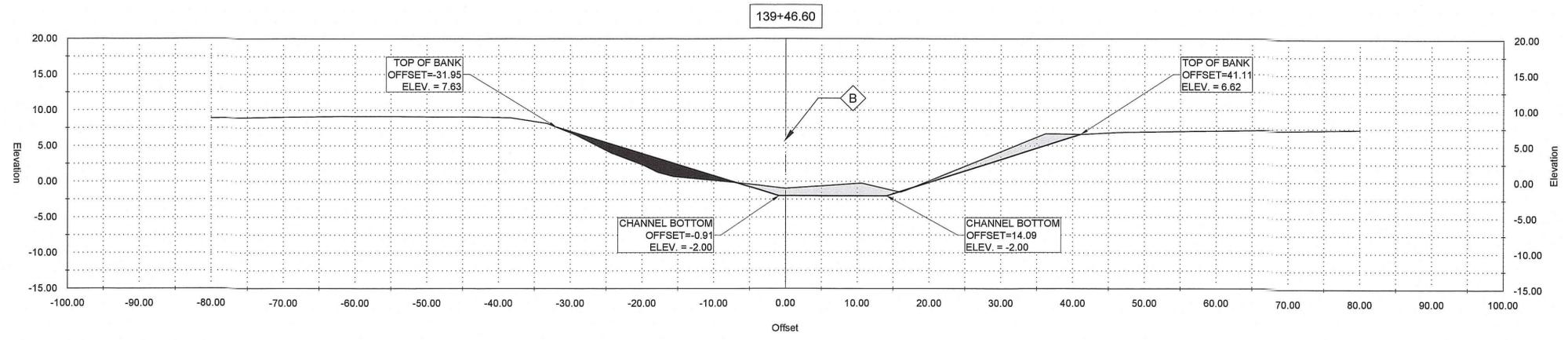
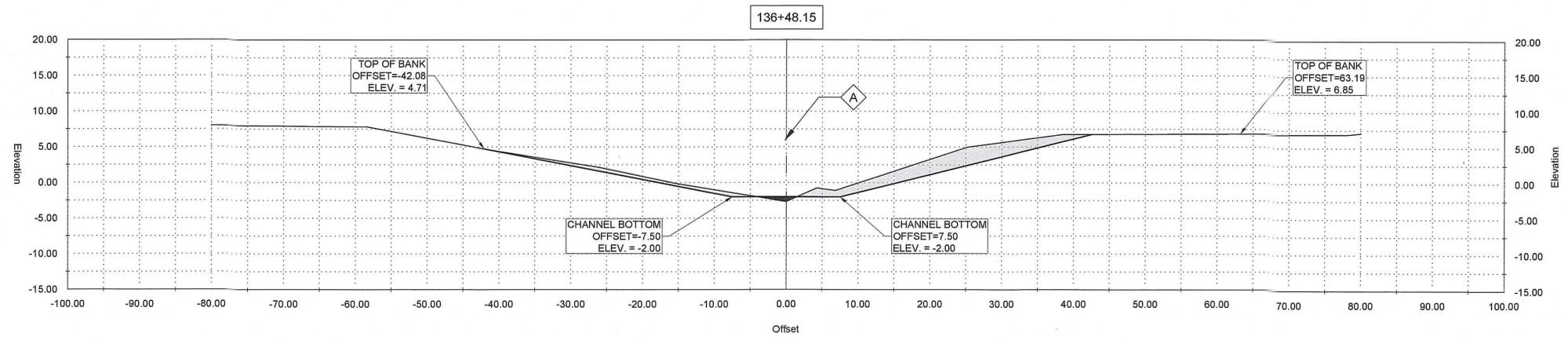
SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL
 LICENSE NO. 37832



MARK	DESCRIPTION	DATE	BY	CHK'D
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

DATE	DESIGNED BY	DRAWN BY	CHECKED BY
APRIL, 2019	DAM/ARF	ARF/RMM	DAM

NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 CROSS SECTIONS



GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED CL
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

◊ - SURVEYED CL

AREA DRAINAGE EXCAVATION: 8.51 SY
 AREA EMBANKMENT: 0.21 SY

04/26/2019

04/26/2019

DAVID ALAN MARTIN
 License No. 37892
 CIVIL ENGINEER

37892
 LICENSE NO.

DAVID ALAN MARTIN
 License No. 37892
 CIVIL ENGINEER

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED CL
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

◊ - SURVEYED CL

AREA DRAINAGE EXCAVATION: 4.84 SY
 AREA EMBANKMENT: 2.91 SY

H. Davis Cole &
 Associates, LLC
 Civil Engineers

37892
 LICENSE NO.

H. DAVIS COLE
 License No. 37892
 CIVIL ENGINEER

REVISION RECORD

MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED CL
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

◊ - SURVEYED CL

AREA DRAINAGE EXCAVATION: 2.42 SY
 AREA EMBANKMENT: 2.50 SY

DESIGNED BY: DAM/ARF
 DRAWN BY: ARF/RMM
 CHECKED BY: DAM

DATE: APRIL, 2019
 DETAILED BY: ARF/RMM
 HDC PROJECT NO.: 2017-14

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED CL
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

◊ - SURVEYED CL

AREA DRAINAGE EXCAVATION: 10.44 SY
 AREA EMBANKMENT: 0.63 SY

NEW RIVER CHANNEL IMPROVEMENTS

LOUISIANA

GONZALES

EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1

42077 CHURCHPOINT ROAD, GONZALES, LA 70737

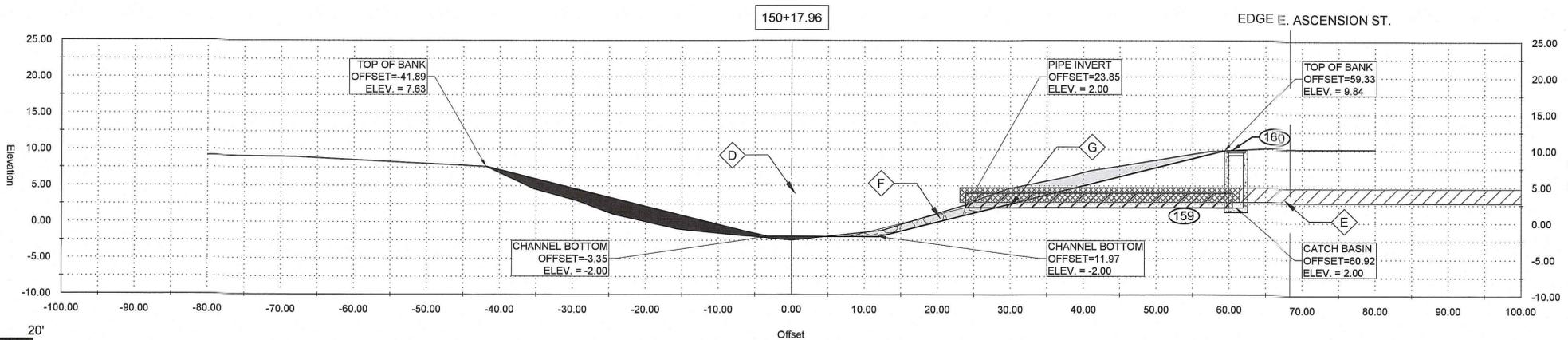
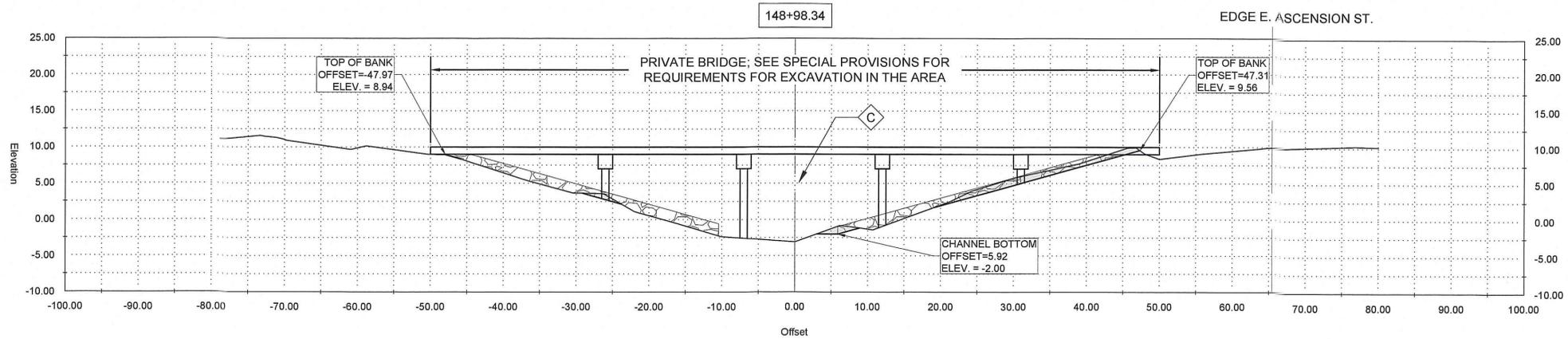
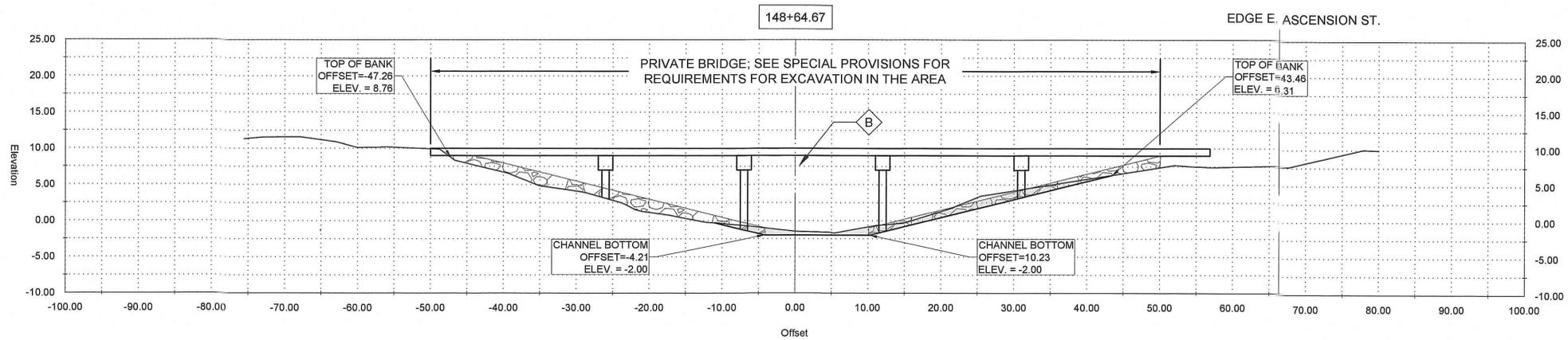
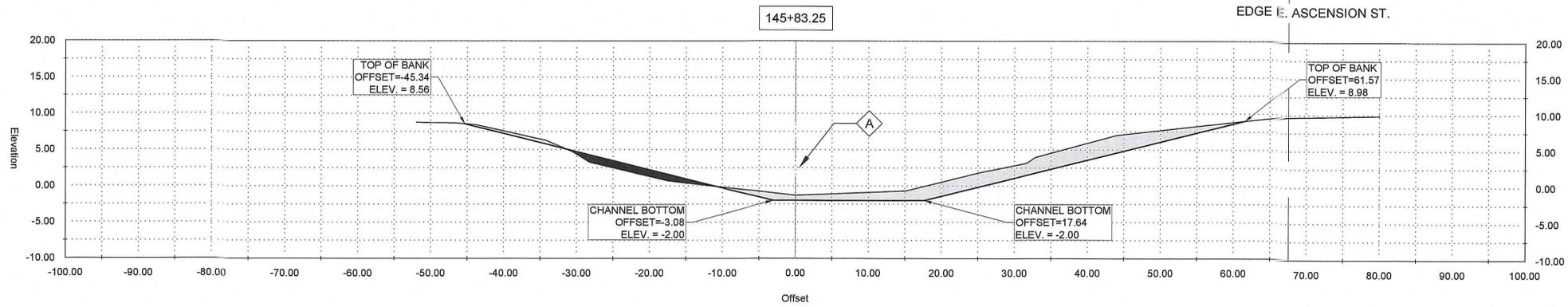
CROSS SECTIONS

SHEET ID

C27

SHEET SET

38 OF **82**



GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{A} - SURVEYED \mathcal{C}

AREA DRAINAGE EXCAVATION: 11.74 SY
AREA EMBANKMENT: 1.63 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{B} - SURVEYED \mathcal{C}

AREA DRAINAGE EXCAVATION: 4.56 SY
AREA EMBANKMENT: 0.00 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{C} - SURVEYED \mathcal{C}

AREA DRAINAGE EXCAVATION: 2.67 SY
AREA EMBANKMENT: 0.00 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED \mathcal{C}
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

\mathcal{D} - SURVEYED \mathcal{C}

\mathcal{E} - EXISTING 24" CMP

\mathcal{F} - OUTFALL PROTECTION PER SHEET BM-02

\mathcal{G} - 24" PLASTIC PIPE EXTENSION \mathcal{C} 24" SDR (37)

AREA DRAINAGE EXCAVATION: 7.35 SY
AREA EMBANKMENT: 6.39 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN

- EXISTING DRAIN PIPE TO BE REMOVED



SUBMITTED BY:
ANDRE R. FORDE, LEI
PROJECT MANAGER

SUBMITTED BY:
DAVID A. MARTIN, LEI
PRINCIPAL

LICENSE NO. 37832



MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

REVISION RECORD

DATE	DESIGNED BY:	DRAWN BY:	CHECKED BY:
APRIL, 2019	DAM/ARF	ARF/RMM	DAM

LOUISIANA

NEW RIVER CHANNEL IMPROVEMENTS

GONZALES

EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1

42077 CHURCHPOINT ROAD, GONZALES, LA 70737

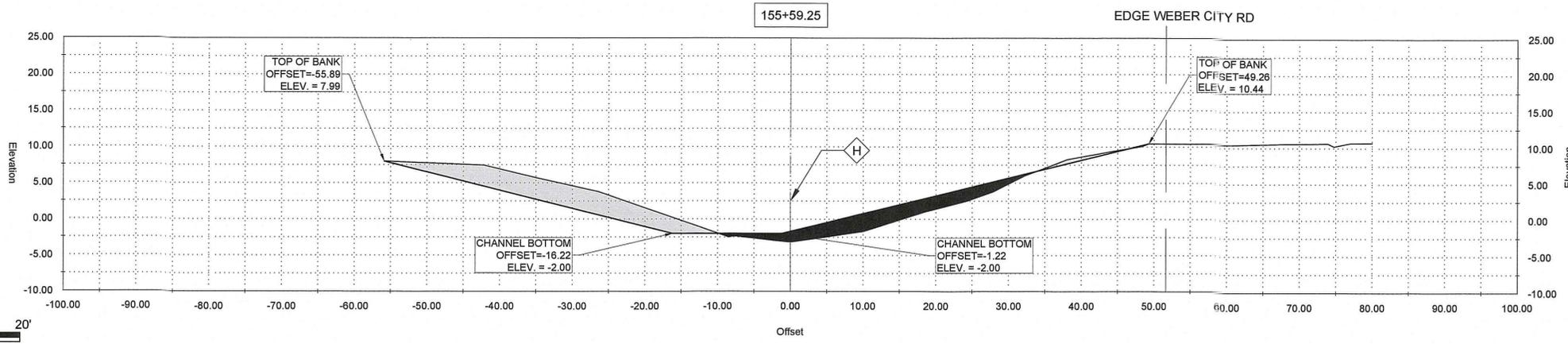
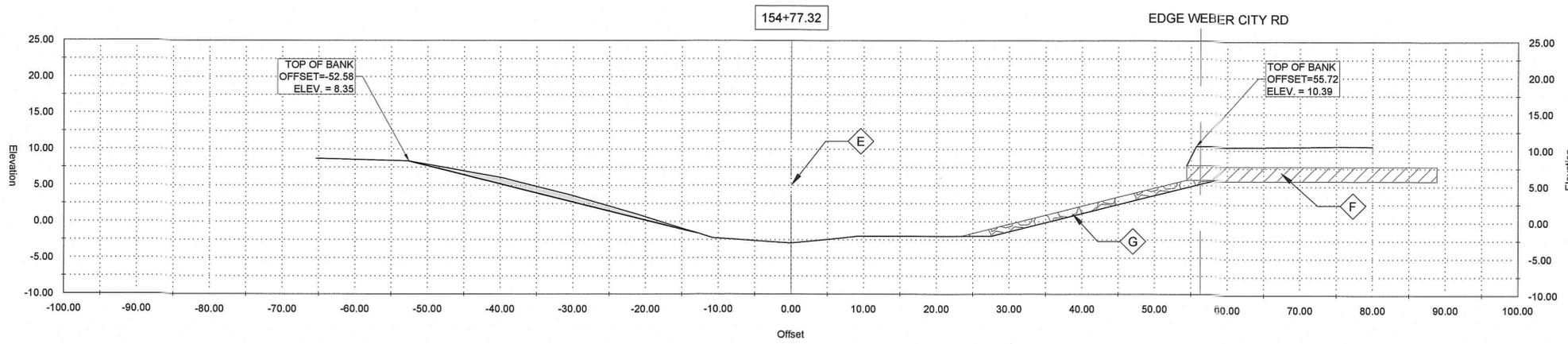
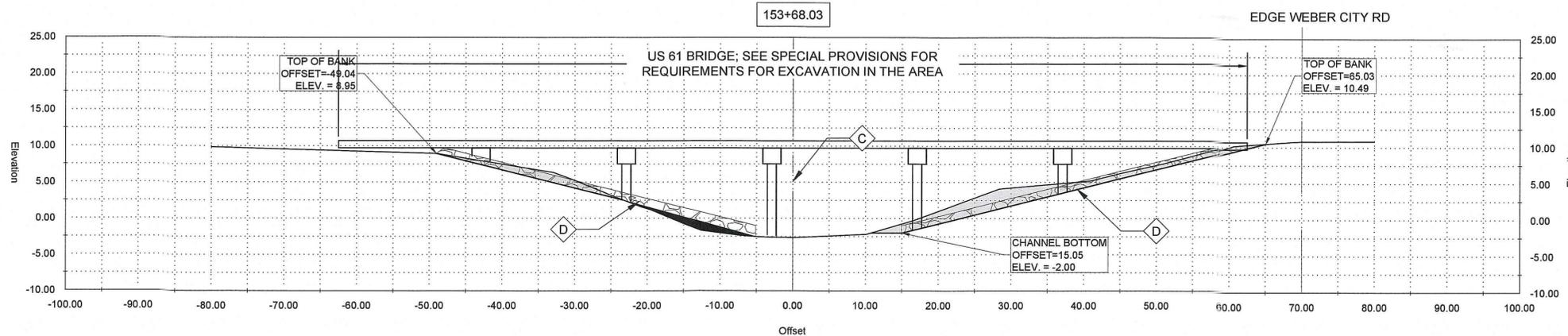
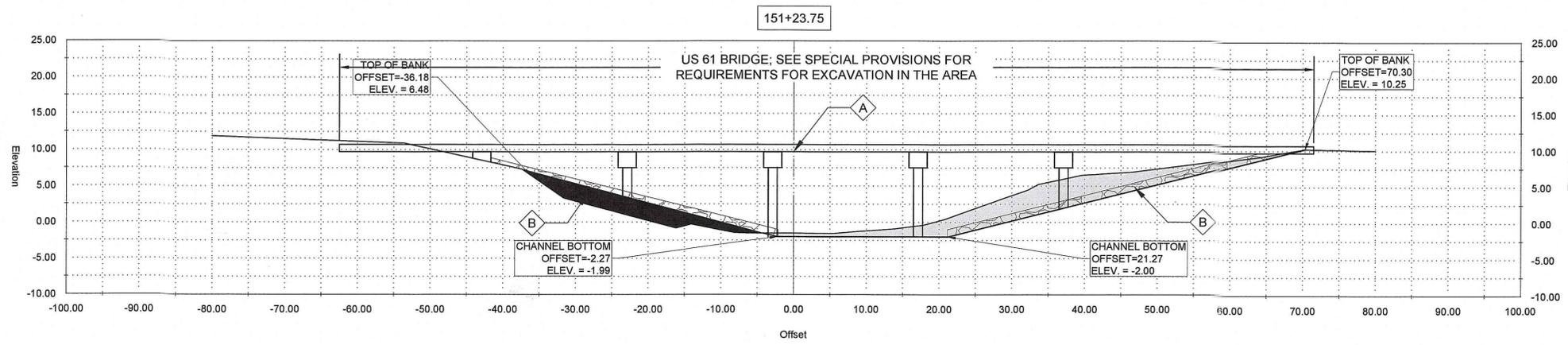
CROSS SECTIONS

SHEET ID

C28

SHEET SET

39 OF **82**



GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ℓ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond A$ - SURVEYED ℓ
- $\diamond B$ - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 15.33 SY
 AREA EMBANKMENT: 6.50 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ℓ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond C$ - SURVEYED ℓ
- $\diamond D$ - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 9.26 SY
 AREA EMBANKMENT: 1.19 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ℓ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond E$ - SURVEYED ℓ
- $\diamond F$ - EXISTING 24" RCP TO REMAIN
- $\diamond G$ - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 2.56 SY
 AREA EMBANKMENT: 0.00 SY

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ℓ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- $\diamond H$ - SURVEYED ℓ

AREA DRAINAGE EXCAVATION: 11.82 SY
 AREA EMBANKMENT: 7.10



SUBMITTED BY:
 ANDREW FORD, E.I.
 PROJECT MANAGER

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL

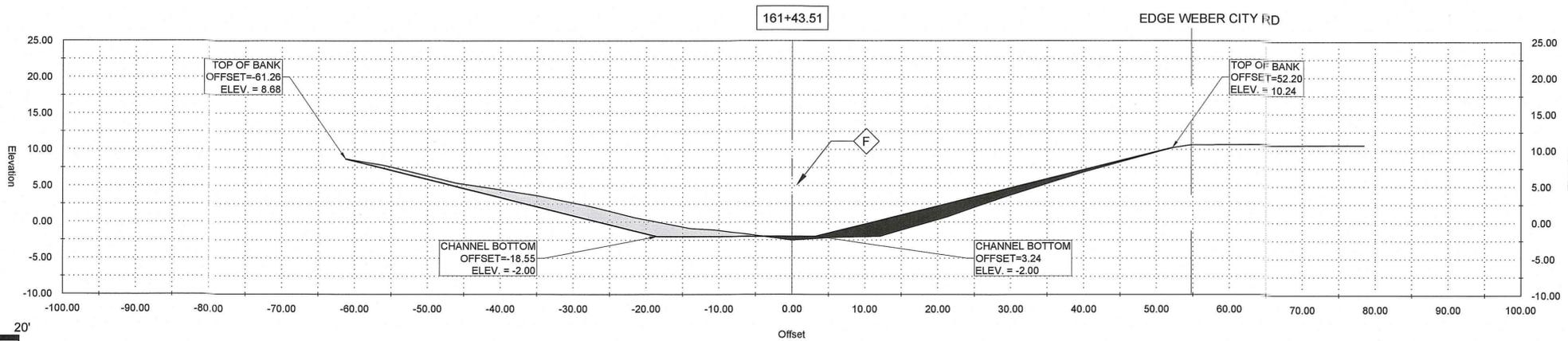
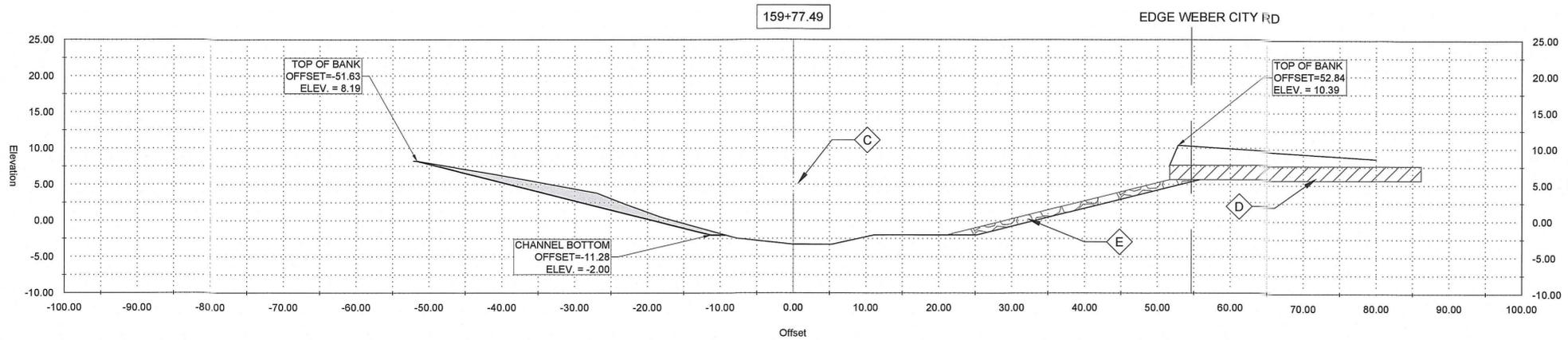
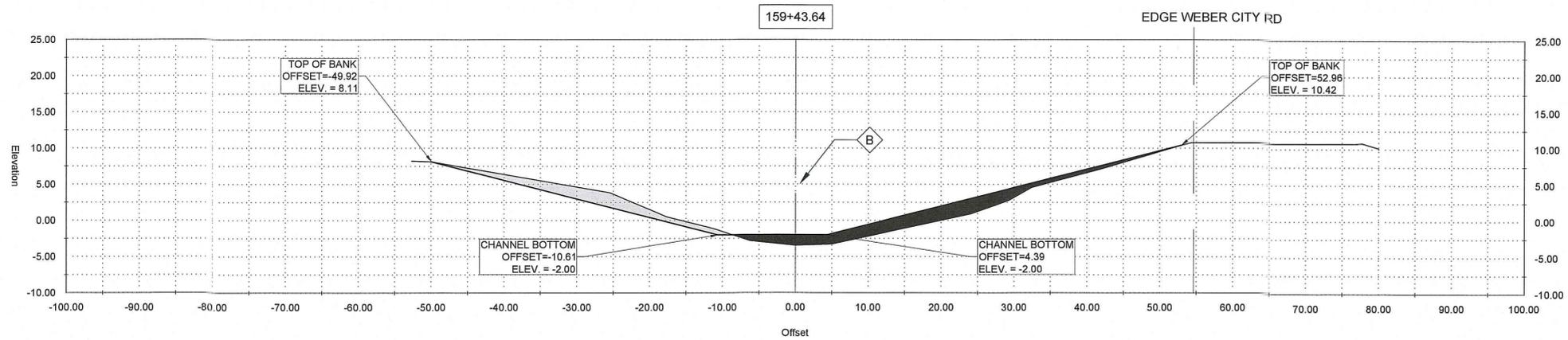
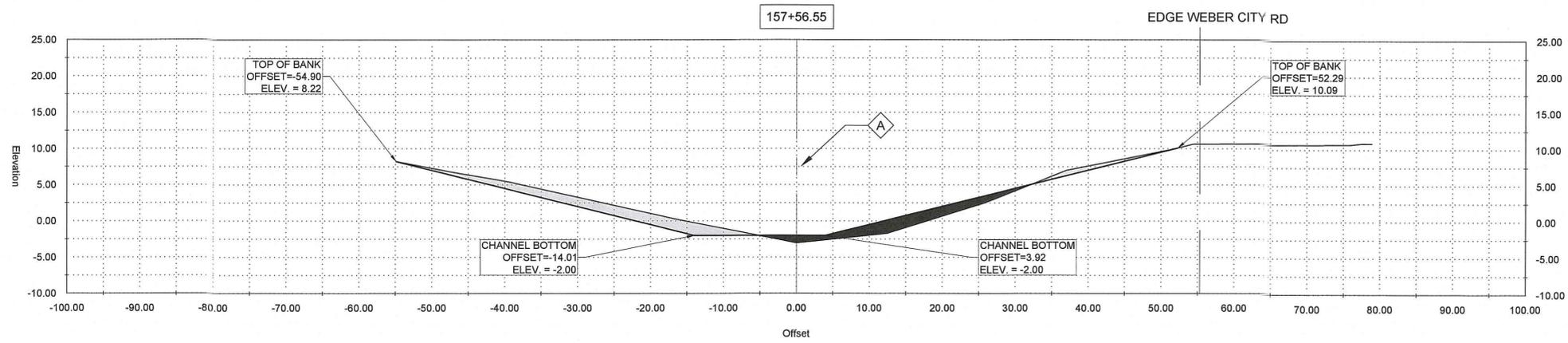


DATE	DESCRIPTION	DATE	BY	CHKD.
04/20/19	RELEASED FOR BIDS & CONSTRUCTION		ARF	DAM

DESIGNED BY:	DAM/ARF	DRAWN BY:	ARF/RMM	CHECKED BY:	DAM
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DATE:	APRIL, 2019	DETAILED BY:	ARF/RMM	HDC PROJECT NO.	2017-14
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NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 CROSS SECTIONS



GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

ζ - SURVEYED ζ

AREA DRAINAGE EXCAVATION: 6.37 SY
 AREA EMBANKMENT: 4.23 SY



SUBMITTED BY: DAVID L. MARTIN, PROJECT MANAGER, LICENSE NO. 3782
 SUBMITTED BY: DAVID L. MARTIN, PRINCIPAL, LICENSE NO. 3782

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

ζ - SURVEYED ζ

AREA DRAINAGE EXCAVATION: 4.55 SY
 AREA EMBANKMENT: 7.69 SY



MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF/RMM	DAM

GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

ζ - SURVEYED ζ

ζ - EXISTING 24" RCP TO REMAIN

ζ - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 4.44 SY
 AREA EMBANKMENT: 0.00 SY

DATE	DESIGNED BY	DRAWN BY	CHECKED BY
APRIL, 2019	DAM/ARF	ARF/RMM	DAM

LOUISIANA
 NEW RIVER CHANNEL IMPROVEMENTS
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 CROSS SECTIONS

GENERAL NOTES:

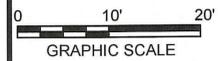
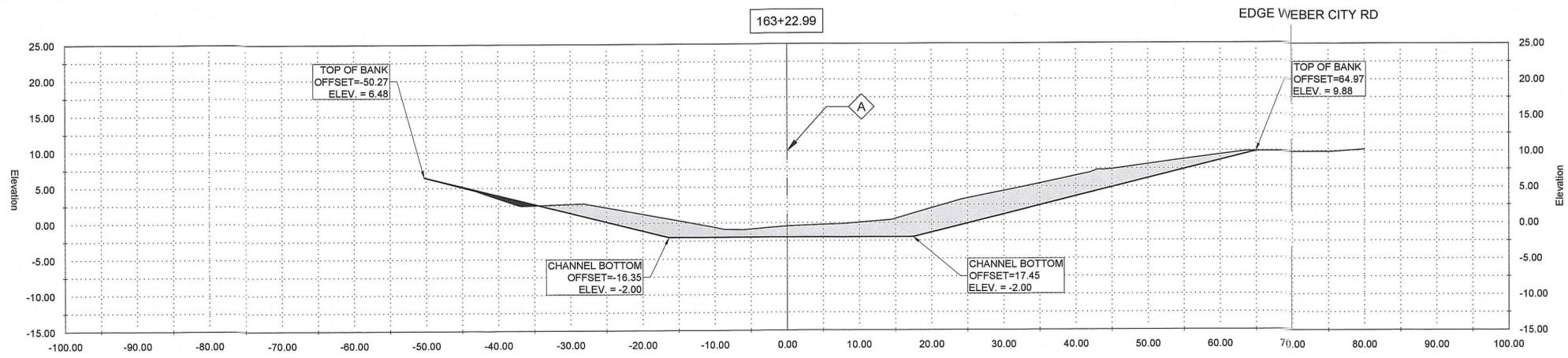
1. OFFSETS SHOWN ARE TO SURVEYED ζ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

ζ - SURVEYED ζ

AREA DRAINAGE EXCAVATION: 6.64 SY
 AREA EMBANKMENT: 5.74

LOUISIANA
 NEW RIVER CHANNEL IMPROVEMENTS
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 CROSS SECTIONS



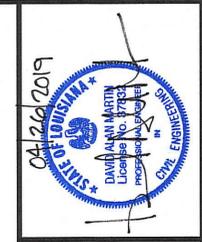
GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED ϵ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

ϵ - SURVEYED ϵ

AREA DRAINAGE EXCAVATION: 22.91 SY
 AREA EMBANKMENT: 0.44 SY



SUBMITTED BY:
 ANDREW FORD, E.I.
 PROJECT MANAGER

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL



MARK	DESCRIPTION	DATE	BY	CHKD.
-	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

DESIGNED BY: DAM/ARF
 DRAWN BY: ARF/RMM
 CHECKED BY: DAM

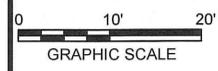
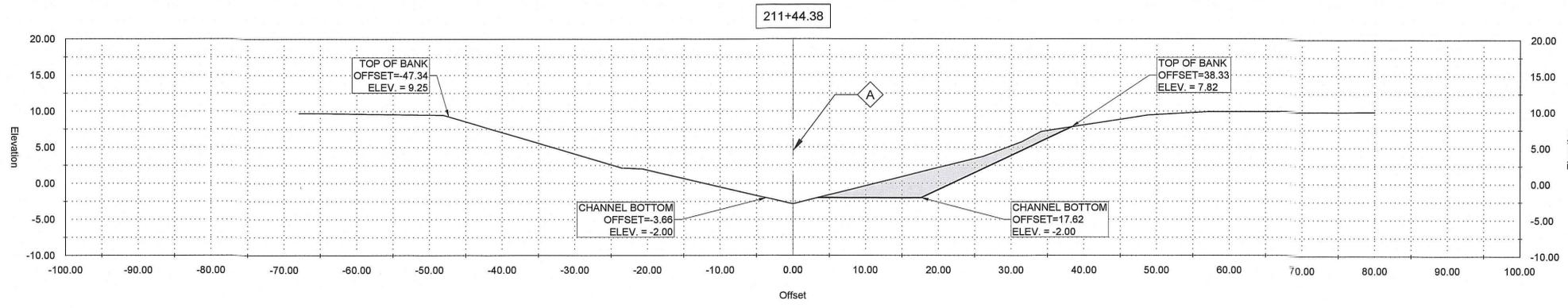
DATE: APRIL, 2019
 DETAILED BY: ARF/RMM
 HDC PROJECT NO.: 2017-14

NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE
 DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737

CROSS SECTIONS

SHEET ID
C31

SHEET SET
 42 OF 82



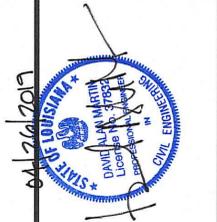
GENERAL NOTES:

1. OFFSETS SHOWN ARE TO SURVEYED CL
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

◊ - SURVEYED CL

AREA DRAINAGE EXCAVATION: 6.86 SY
AREA EMBANKMENT: 3.02 SY



SUBMITTED BY:
DAVID A. MARTIN
PROJECT MANAGER
LICENSE NO. 37852

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL
LICENSE NO. 37852



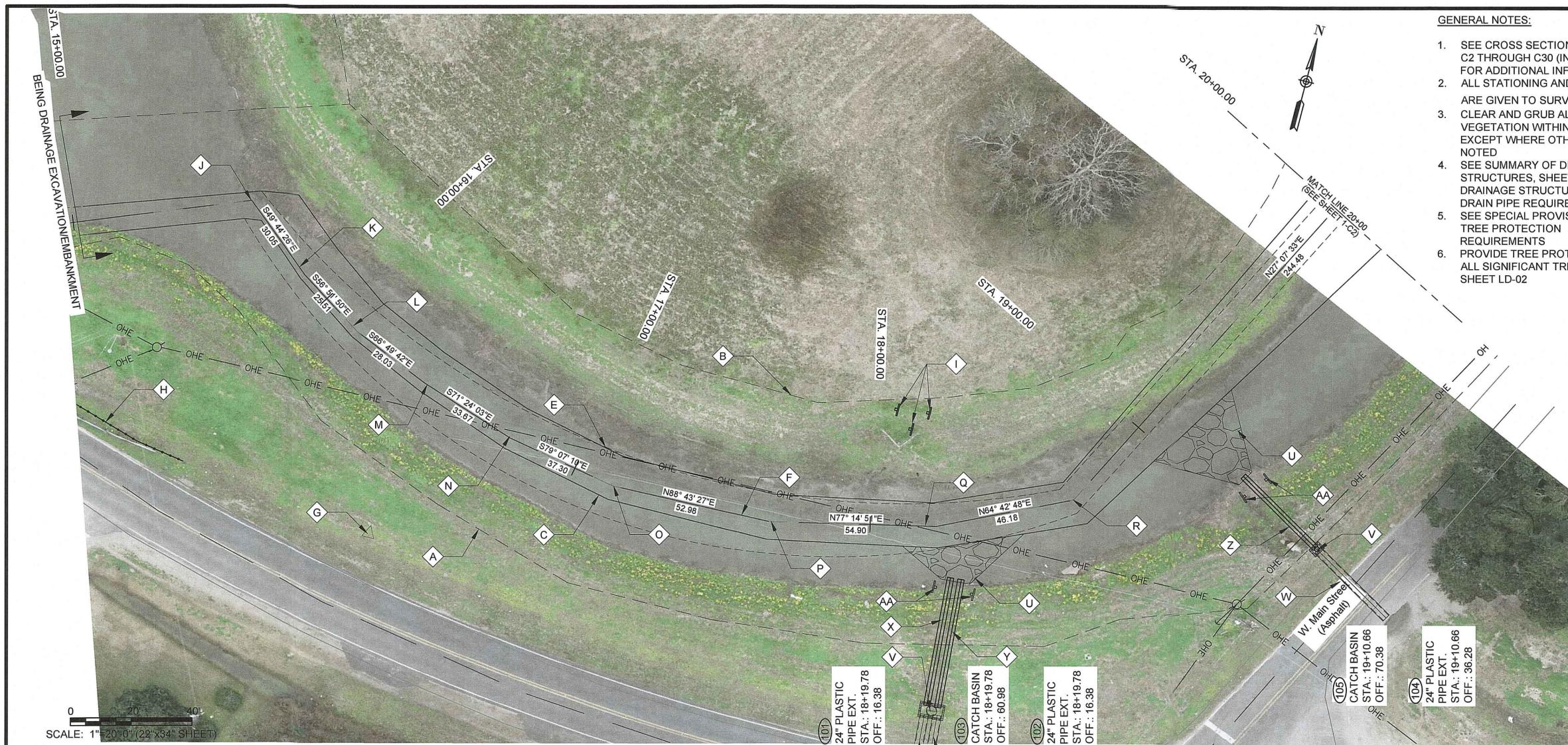
MARK	DATE	BY	CHKD	DESCRIPTION
*	04/2019	ARF	DAM	RELEASED FOR BIDS & CONSTRUCTION

REVISION RECORD

DESIGNED BY: DAM/ARF
DRAWN BY: ARF/RMM
CHECKED BY: DAM

DATE: APRIL, 2019
DETAILED BY: ARF/RMM
HDC PROJECT NO. 2017-14

NEW RIVER CHANNEL IMPROVEMENTS
LOUISIANA
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE
DISTRICT NO.1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
CROSS SECTIONS



GENERAL NOTES:

1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
2. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED \mathcal{C} .
3. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
4. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
5. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
6. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

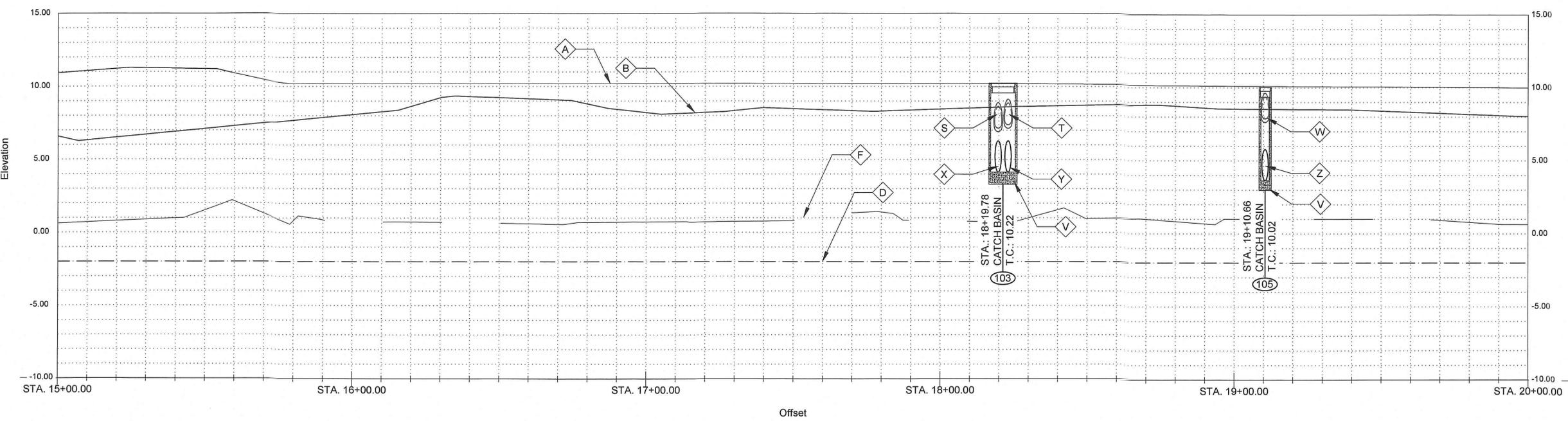
NOTES BY SYMBOL:

- \mathcal{A} - TOP OF BANK (R.T.)
- \mathcal{B} - TOP OF BANK (L.T.)
- \mathcal{C} - BOTTOM OF CHANNEL (R.T.)
- \mathcal{D} - BOTTOM OF CHANNEL (L.T.) (EL. -2.0, \mathcal{C} OF NEW RIVER)
- \mathcal{E} - BOTTOM OF CHANNEL (L.T.)
- \mathcal{F} - SURVEYED \mathcal{C} OF NEW RIVER
- \mathcal{G} - CONTROL POINT (BY SURVEYOR), SEE SURVEY FOR GEOMETRY
- \mathcal{H} - EXISTING GUARD RAIL (TO REMAIN)
- \mathcal{I} - EXISTING OBJECT MARKERS (TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING)
- \mathcal{J} - P.I. STA. 15+59.21 (N: 630345.9378, E: 3402986.8922)
- \mathcal{K} - P.I. STA. 15+89.26 (N: 630326.5207, E: 3403009.8210)
- \mathcal{L} - P.I. STA. 16+14.77 (N: 630312.5755, E: 3403031.1834)
- \mathcal{M} - P.I. STA. 16+42.79 (N: 630301.5470, E: 3403056.9501)
- \mathcal{N} - P.I. STA. 16+76.47 (N: 630290.8076, E: 3403088.8632)
- \mathcal{O} - P.I. STA. 17+13.77 (N: 630283.7666, E: 3403125.4938)
- \mathcal{P} - P.I. STA. 17+66.75 (N: 630284.9463, E: 3403178.4606)
- \mathcal{Q} - P.I. STA. 18+21.65 (N: 630297.0652, E: 3503232.0073)
- \mathcal{R} - P.I. STA. 18+67.83 (N: 630316.7930, E: 3403273.7669)

- \mathcal{S} - EXISTING 24" RCPA TO REMAIN, INV. 6.89
- \mathcal{T} - EXISTING 24" RCPA TO REMAIN, INV. 7.12
- \mathcal{U} - OUTLET PROTECTION PER SHEET BM-02
- \mathcal{V} - CATCH BASIN
- \mathcal{W} - EXISTING 24" RCPA TO REMAIN, INV. 7.63
- \mathcal{X} - (101)
- \mathcal{Y} - (102)
- \mathcal{Z} - (104)
- \mathcal{AA} - OBJECT MARKER PER DETAIL

100
C-1

SCALES:
HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
VERTICAL: 1" = 4'-0" (22"x34" SHEET)



04/24/2019

STATE OF LOUISIANA
DAVID A. MARTIN
Lic. No. 37892
Professional Engineer

STATE OF LOUISIANA
DAVID A. MARTIN, P.E.
Lic. No. 37892
Principal

PROJECT MANAGER
ANDRE F. FORD, E.I.

PRINCIPAL
DAVID A. MARTIN, P.E.

HDC
H. Davis Cole & Associates, LLC
Consulting Engineers

MARK	DESCRIPTION	DATE	BY	CHKD.

DESIGNED BY:	DAM/ARF	DRAWN BY:	ARF/RMM	CHECKED BY:	DAM
DATE:	APRIL, 2019	DETAILED BY:	ARF/RMM	HDC PROJECT NO.:	2017-14

LOUISIANA
NEW RIVER CHANNEL IMPROVEMENTS
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
PLAN & PROFILE

SHEET ID
1-C1

SHEET SET
45 OF **82**

GENERAL NOTES:

- SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
- ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ℓ .
- CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
- SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
- SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
- PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

NOTES BY SYMBOL:

- \diamond A - TOP OF BANK (R.T.)
- \diamond B - TOP OF BANK (L.T.)
- \diamond C - BOTTOM OF CHANNEL (R.T.)
- \diamond D - BOTTOM OF CHANNEL (EL. -2.0, ℓ OF NEW RIVER)
- \diamond E - BOTTOM OF CHANNEL (L.T.)
- \diamond F - SURVEYED ℓ OF NEW RIVER
- \diamond G - VEGETATION (SEE NOTE #3)
- \diamond H - EXISTING GAS LINE, GULF SOUTH PIPELINE, TO REMAIN. DEPTH AND SIZE UNKNOWN
- \diamond I - EXISTING 12" RCP, TO REMAIN, INV. 6.00
- \diamond J - P.I. STA. 21+12.31 (N: 630534.3791, E: 3403385.2349)
- \diamond K - P.I. STA. 23+61.35 (N: 630735.7552, E: 3403531.7536)
- \diamond L - MAILBOX, TO REMAIN
- \diamond M - OUTLET PROTECTION PER SHEET BM-02
- \diamond N - CATCH BASIN
- \diamond O - EXISTING 12" RCP, TO REMAIN, INV. 6.60
- \diamond P - \circ 106
- \diamond Q - \circ 108
- \diamond R - OBJECT MARKER PER DETAIL 100 C-1



SUBMITTED BY:
DAMIEN MARTIN
PROJECT MANAGER

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL

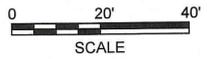


MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

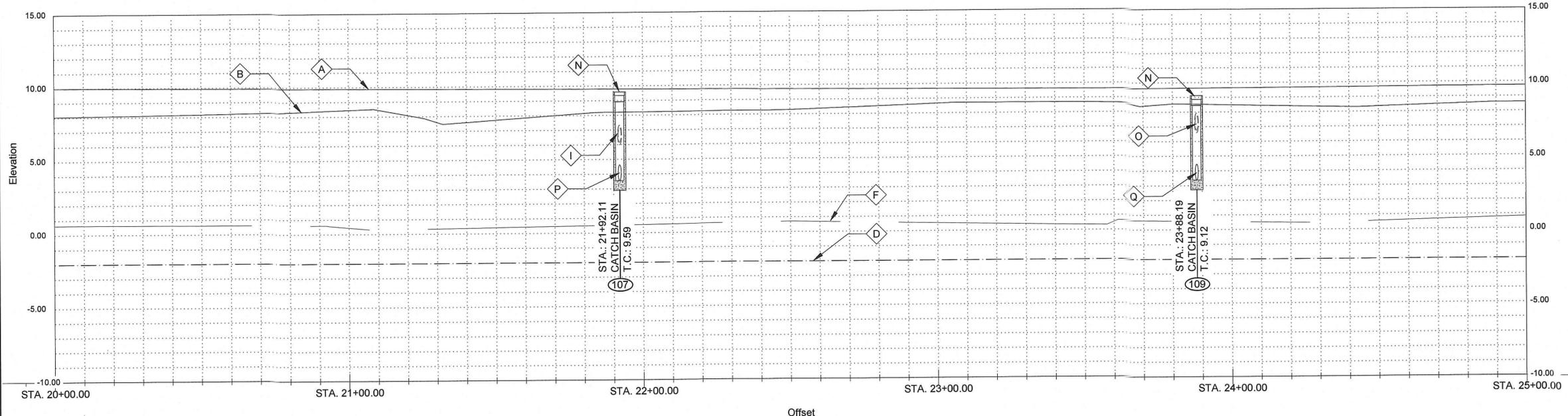
DESIGNED BY:	DRAWN BY:	CHECKED BY:
DAM/ARF	ARF/RMM	DAM

DATE:	APRIL, 2019	DATE:	2017-14
DETAILED BY: <td>ARF/RMM <td>HDC PROJECT NO.: <td>42077</td> </td></td>	ARF/RMM <td>HDC PROJECT NO.: <td>42077</td> </td>	HDC PROJECT NO.: <td>42077</td>	42077

NEW RIVER CHANNEL IMPROVEMENTS
LOUISIANA
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
PLAN & PROFILE

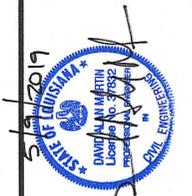


SCALES:
HORIZONTAL: 1" = 20'-0"
VERTICAL: 1" = 4'-0"



Elevation

Offset



SUBMITTED BY:
ANDRE B. FORD, LEI
PROJECT MANAGER
LICENSE NO. 37352

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL
LICENSE NO. 37352



H. Davis Cole & Associates, LLC
37352
NEW ORLEANS, LA

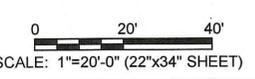
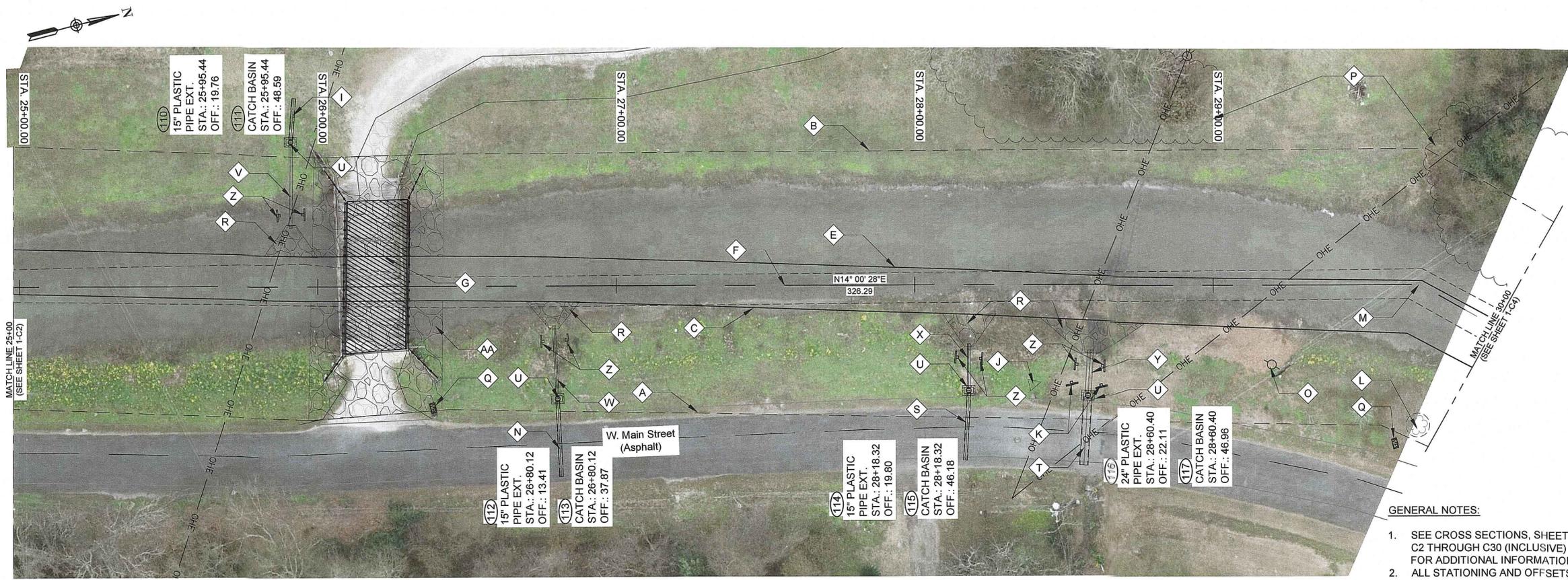
REVISION RECORD	
MARK	DESCRIPTION
-	RELEASED FOR BIDS & CONSTRUCTION
DATE	BY / CHKD.
04/2019	ARF / DAM

DATE	DESIGNED BY:	DRAWN BY:	CHECKED BY:
APRIL, 2019	DAM/ARF	ARF/RMM	DAM

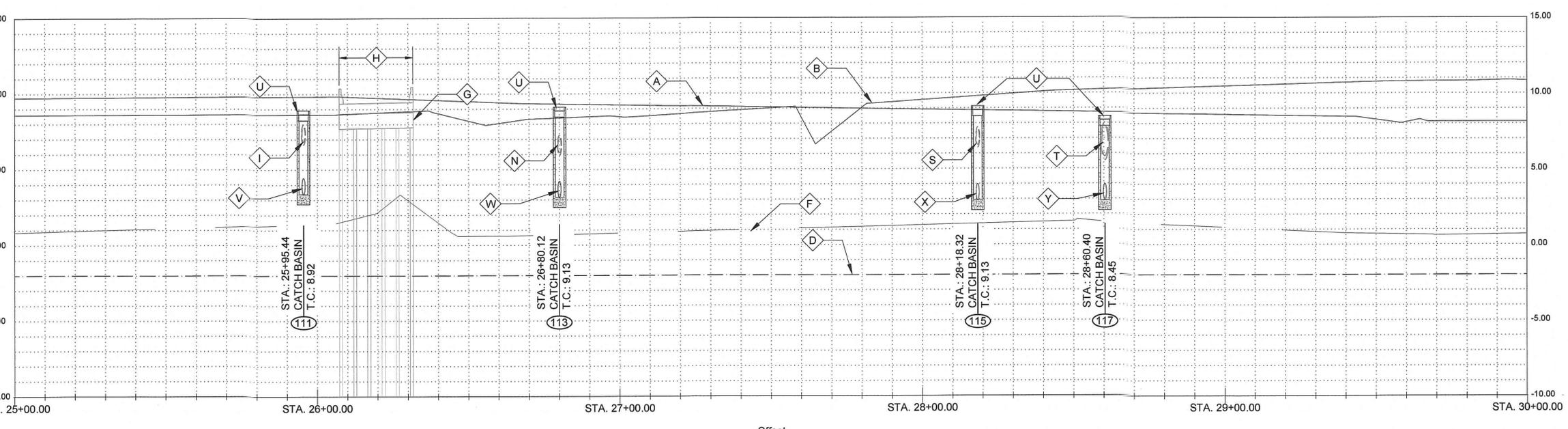
NEW RIVER CHANNEL IMPROVEMENTS
LOUISIANA
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
PLAN & PROFILE

SHEET ID
1-C3

SHEET SET
47 OF 82

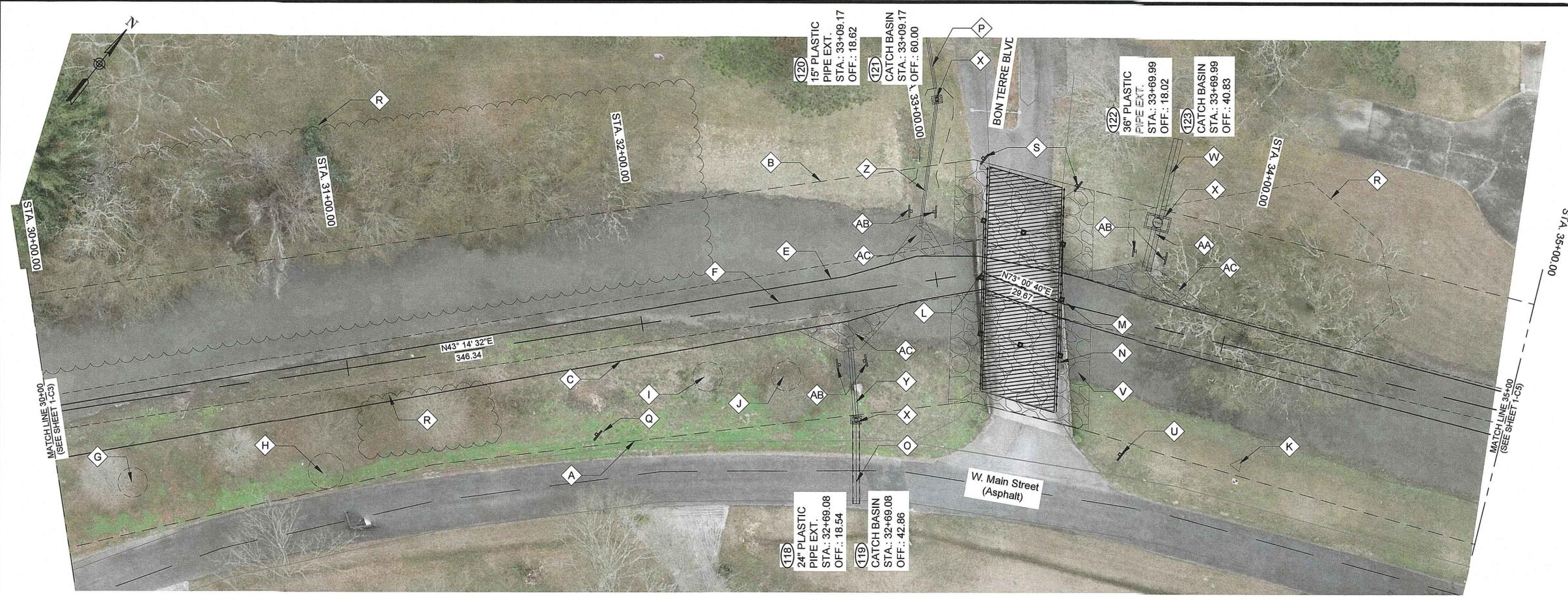


SCALES:
HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
VERTICAL: 1" = 4'-0" (22"x34" SHEET)



- NOTES BY SYMBOL:
- A - TOP OF BANK (R.T.)
 - B - TOP OF BANK (L.T.)
 - C - BOTTOM OF CHANNEL (R.T.)
 - D - BOTTOM OF CHANNEL (EL. -2.0, CL OF NEW RIVER)
 - E - BOTTOM OF CHANNEL (L.T.)
 - F - SURVEYED CL OF NEW RIVER
 - G - EXISTING WOODEN BRIDGE (PRIVATE OWNER), TO REMAIN, 29 BRIDGE PILES, 12" x 12" CAP WITH 12" WOOD PILES
 - H - SEE SPECIAL PROVISIONS FOR REQUIREMENTS FOR EXCAVATION IN THIS AREA
 - I - EXISTING 12" RCP, TO REMAIN, INV. 6.66
 - J - CONTROL POINT BY SURVEYOR, SEE SURVEY FOR GEOMETRY
 - K - HAZARD SIGNS, TYP. OF 2, TO BE REMOVED AND REPLACED
 - L - 24" CYPRESS, TO REMAIN
 - M - P.I. STA. 29+69.22 (N: 631325.6033, E: 3403678.6820)
 - N - EXISTING 12" RCP, TO REMAIN, INV. 5.94
 - O - POWER POLE WITH UNDERGROUND ELECTRIC LINE, TO REMAIN
 - P - VEGETATION (SEE NOTE #3)
 - Q - MAILBOX, TO REMAIN
 - R - OUTLET PROTECTION PER SHEET BM-02
 - S - EXISTING 12" RCP, TO REMAIN, INV. 6.40
 - T - EXISTING 24" RCPA, TO REMAIN, INV. 5.53
 - U - CATCH BASIN
 - V - (110)
 - W - (112)
 - X - (114)
 - Y - (116)
 - Z - OBJECT MARKER PER DETAIL 100 C-1
 - AA - RIP RAP PER SECTION 02711

- GENERAL NOTES:
- SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED CL.
 - CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
 - SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
 - SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
 - PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

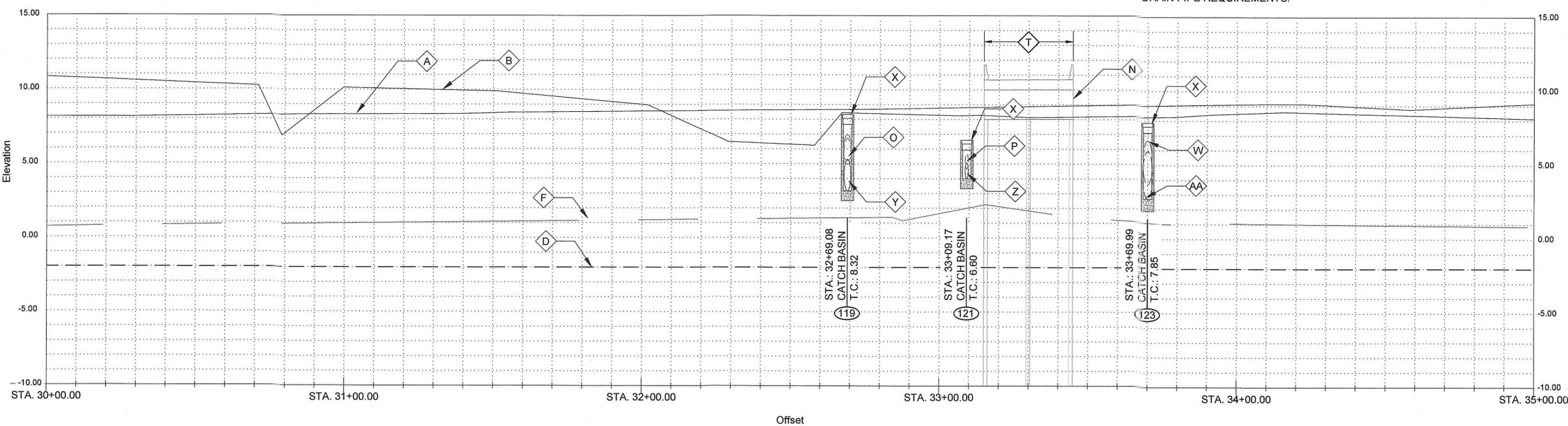


- NOTES BY SYMBOL:**
- ⬢ A - TOP OF BANK (R.T.)
 - ⬢ B - TOP OF BANK (L.T.)
 - ⬢ C - BOTTOM OF CHANNEL (R.T.)
 - ⬢ D - BOTTOM OF CHANNEL (EL. -2.0, ∇ OF NEW RIVER)
 - ⬢ E - BOTTOM OF CHANNEL (L.T.)
 - ⬢ F - SURVEYED ∇ OF NEW RIVER
 - ⬢ G - 18" CYPRESS, TO REMAIN
 - ⬢ H - 24" CYPRESS, TO REMAIN
 - ⬢ I - 8" CYPRESS, TO REMAIN
 - ⬢ J - 12" CYPRESS, TO REMAIN
 - ⬢ K - CONTROL POINT BY SURVEYOR. SEE SURVEY FOR GEOMETRY
 - ⬢ L - P.I. STA. 33+15.56 (N: 631577.8982, E: 3403915.9250)
 - ⬢ M - P.I. STA. 33+45.23 (N: 631586.5671, E: 3403944.3262)
 - ⬢ N - BON TERRE BLVD BRIDGE (CITY OF GONZALES), 9 BRIDGE PILES, 24" x 24" CONCRETE CAP WITH 15" CONCRETE PILES
 - ⬢ O - EXISTING 24" RCPA, TO REMAIN, INV. 4.96
 - ⬢ P - EXISTING 12" SMOOTH METAL PIPE, TO REMAIN, INV. 4.68
 - ⬢ Q - OBJECT MARKER, TO BE REMOVED AND REPLACED
 - ⬢ R - VEGETATION (SEE NOTE #3)
 - ⬢ S - HAZARD SIGNS
 - ⬢ T - SEE SPECIAL PROVISIONS FOR REQUIREMENTS FOR EXCAVATION IN THIS AREA
 - ⬢ U - EXISTING OBJECT MARKER, TO REMAIN
 - ⬢ V - RIP RAP PER SECTION 02711
 - ⬢ W - EXISTING 36" CMP, TO REMAIN, INV. 3.68
 - ⬢ X - CATCH BASIN
 - ⬢ Y - (118)
 - ⬢ Z - (120)
 - ⬢ AA - (122)
 - ⬢ AB - OBJECT MARKER PER DETAIL 100 C-1
 - ⬢ AC - OUTFALL PROTECTION PER BM-02

- GENERAL NOTES:**
1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ∇ .
 2. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
 3. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
 4. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
 5. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

0 20' 40'
SCALE: 1"=20'-0" (22"x34" SHEET)

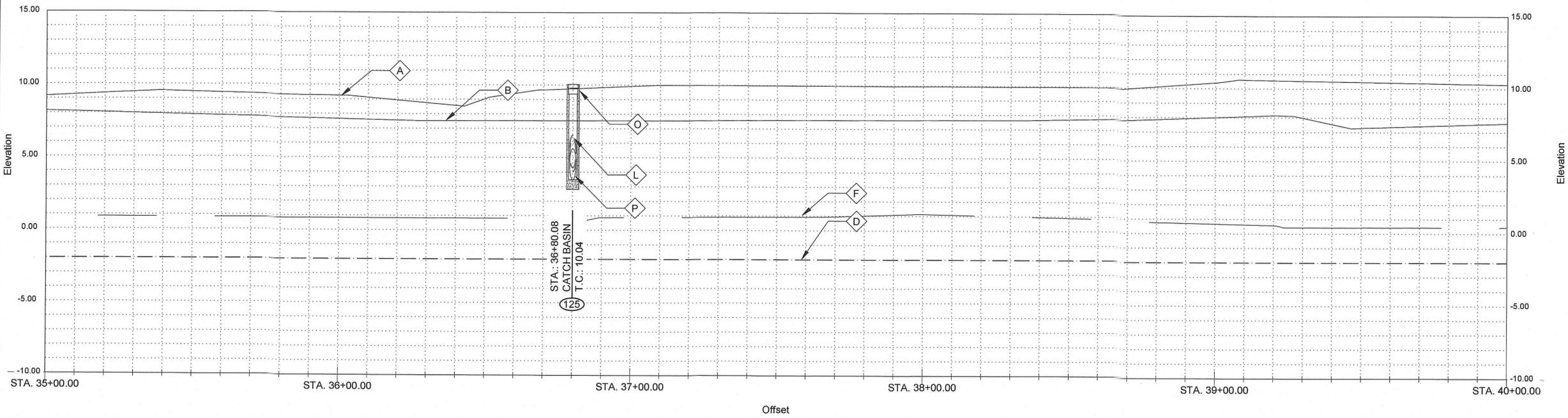
SCALES:
HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
VERTICAL: 1" = 4'-0" (22"x34" SHEET)



SUBMITTED BY: ANDREW CAROL ELLIOTT PROJECT MANAGER LICENSE NO.	SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL LICENSE NO.
H. Davis Cole & Associates, LLC Consulting Engineers NEW ORLEANS, LA	
DESIGNED BY: DAM/ARF	DRAWN BY: ARF/RMM
DATE: APRIL, 2019	CHECKED BY: DAM
DETAILED BY: ARF/RMM	
HDC PROJECT NO.: 2017-14	
LOUISIANA NEW RIVER CHANNEL IMPROVEMENTS GONZALES EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1 42077 CHURCHPOINT ROAD, GONZALES, LA 70737 PLAN & PROFILE	
SHEET ID 1-C4	
SHEET SET 48 OF 82	



SCALES:
 HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
 VERTICAL: 1" = 4'-0" (22"x34" SHEET)



- GENERAL NOTES:**
- SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
 - ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ℓ .
 - CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
 - SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
 - SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
 - PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

- NOTES BY SYMBOL:**
- \diamond A - TOP OF BANK (R.T.)
 - \diamond B - TOP OF BANK (L.T.)
 - \diamond C - BOTTOM OF CHANNEL (R.T.)
 - \diamond D - BOTTOM OF CHANNEL (EL. -2.0, ℓ OF NEW RIVER)
 - \diamond E - BOTTOM OF CHANNEL (L.T.)
 - \diamond F - SURVEYED ℓ OF NEW RIVER
 - \diamond G - 24" SYCAMORE, TO REMAIN
 - \diamond H - 48" SYCAMORE, TO REMAIN
 - \diamond I - VEGETATION (SEE NOTE #3)
 - \diamond J - P.I. STA. 36+89.18 (N: 631729.3852, E: 3404257.2308)
 - \diamond K - P.I. STA. 39+23.68 (N: 631875.2357, E: 3404440.8505)
 - \diamond L - EXISTING 24" RCP, TO REMAIN, INV. 4.50
 - \diamond M - TELEPHONE POLE, TO REMAIN
 - \diamond N - OUTFALL PROTECTION PER SHEET BM-02
 - \diamond O - CATCH BASIN
 - \diamond P - (124) OBJECT MARKER PER DETAIL 100 C-1

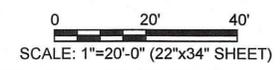
SUBMITTED BY: ANDREER FORD, E.L. PROJECT MANAGER LICENSE NO.	SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL LICENSE NO. 37832
H. Davis Cole & Associates, LLC ENGINEERS-ARCHITECTS NEW ORLEANS, LA	
DESIGNED BY: DAM/ARF	DRAWN BY: ARF/RMM
DATE: APRIL, 2019	CHECKED BY: DAM
RELEASED FOR BIDS & CONSTRUCTION DATE: 04/2019 BY: ARF DAM	
REVISION RECORD	

NEW RIVER CHANNEL IMPROVEMENTS LOUISIANA GONZALES	EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
PLAN & PROFILE	
SHEET ID 1-C5	
SHEET SET 49 OF 82	

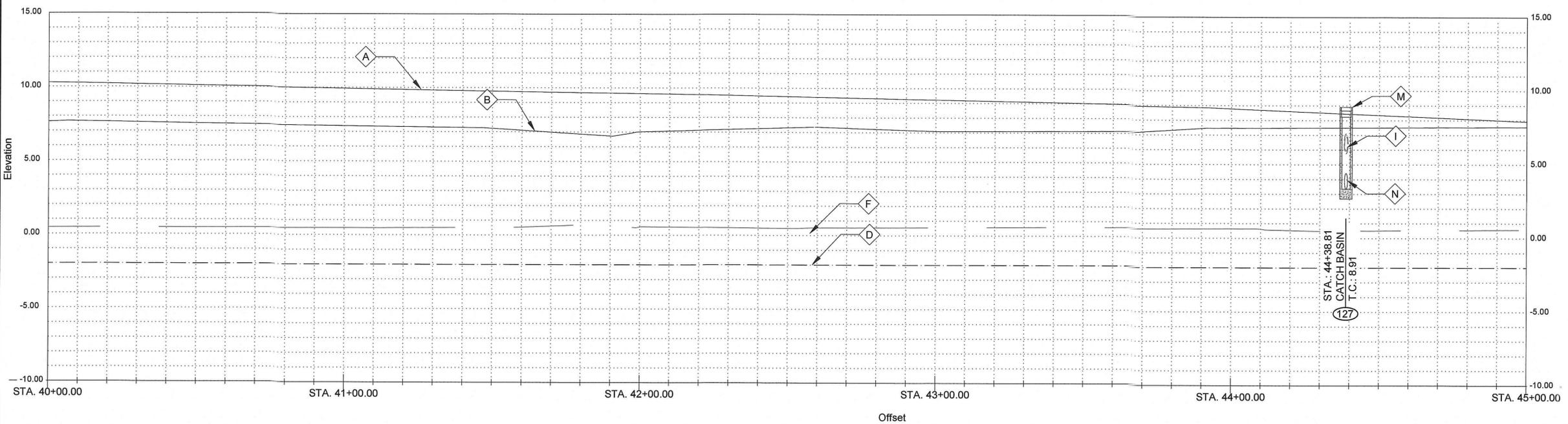


- GENERAL NOTES:**
- SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
 - ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ℓ .
 - CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
 - SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
 - SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
 - PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

- NOTES BY SYMBOL:**
- \diamond A - TOP OF BANK (R.T.)
 - \diamond B - TOP OF BANK (L.T.)
 - \diamond C - BOTTOM OF CHANNEL (R.T.)
 - \diamond D - BOTTOM OF CHANNEL (EL. -2.0, ℓ OF NEW RIVER)
 - \diamond E - BOTTOM OF CHANNEL (L.T.)
 - \diamond F - SURVEYED ℓ OF NEW RIVER
 - \diamond G - 4' CHAIN LINK FENCE
 - \diamond H - EXISTING 24" WATERLINE BATON ROUGE WATER COMPANY, TO REMAIN. DEPTH UNKNOWN
 - \diamond I - EXISTING 12" RCP (BROKEN PIPE), TO REMAIN, INV. 5.77
 - \diamond J - VEGETATION (SEE NOTE #3)
 - \diamond K - P.I. STA. 41+77.73 (N: 632091.9714, E: 3404573.3910)
 - \diamond L - OUTFALL PROTECTION PER SHEET BM-02
 - \diamond M - CATCH BASIN
 - \diamond N - (126)
 - \diamond O - OBJECT MARKER PER DETAIL 100 C-1



SCALES:
 HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
 VERTICAL: 1" = 4'-0" (22"x34" SHEET)



15/12/17

STATE OF LOUISIANA
 DAVID J. MARTIN
 LICENSE NO. 37892
 PROFESSIONAL ENGINEER

37892
 LICENSE NO.

37892
 LICENSE NO.

DAVID J. MARTIN
 PROJECT MANAGER

DAVID J. MARTIN, P.E.
 PRINCIPAL

HDC

H. Davis Cole & Associates, LLC
 500 Poydras Street, Suite 2000
 New Orleans, LA 70112

DATE	DESCRIPTION	BY	CHKD.
04/20/18	RELEASED FOR BIDS & CONSTRUCTION	ARF	DAM

DATE	DESIGNED BY	DRAWN BY	CHECKED BY
APRIL, 2019	DAM/ARF	ARF/RMM	DAM

LOUISIANA
 GONZALES

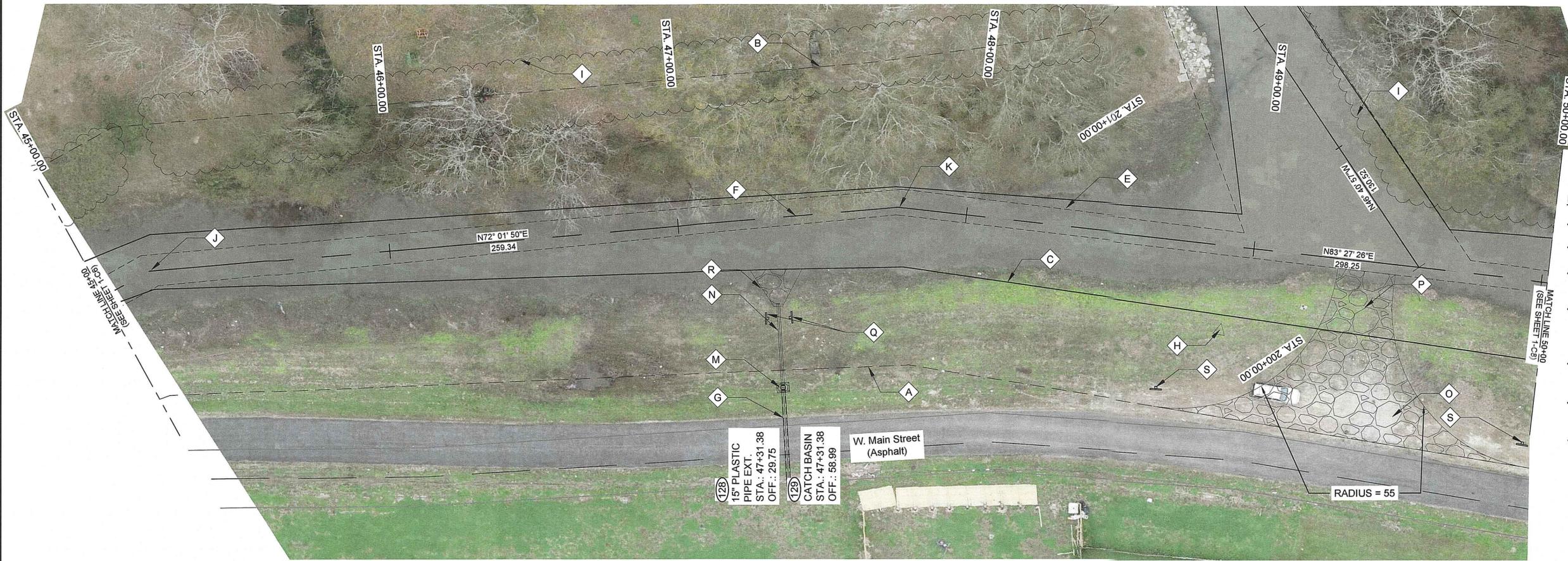
NEW RIVER CHANNEL IMPROVEMENTS

EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737

PLAN & PROFILE

SHEET ID
1-C6

SHEET SET
50 OF 82

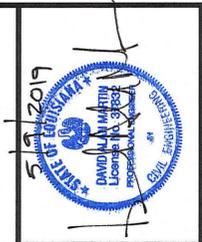
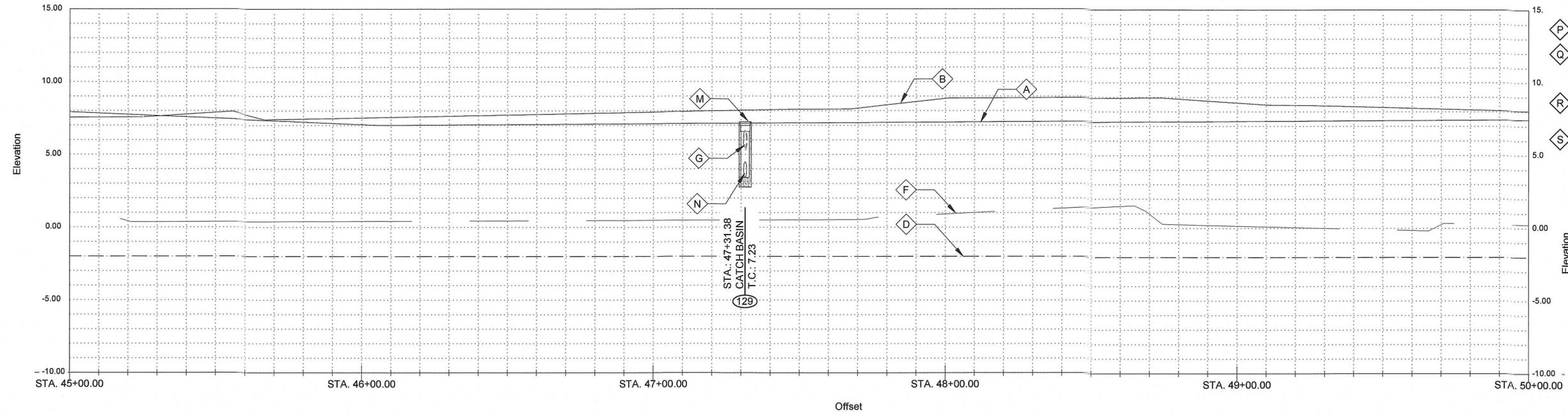


- NOTES BY SYMBOL:**
- ⬠ A - TOP OF BANK (R.T.)
 - ⬠ B - TOP OF BANK (L.T.)
 - ⬠ C - BOTTOM OF CHANNEL (R.T.)
 - ⬠ D - BOTTOM OF CHANNEL (EL. -2.0, \bar{C} OF NEW RIVER)
 - ⬠ E - BOTTOM OF CHANNEL (L.T.)
 - ⬠ F - SURVEYED \bar{C} OF NEW RIVER
 - ⬠ G - EXISTING 12" RCP, TO REMAIN, INV. 5.31
 - ⬠ H - CONTROL POINT BY SURVEYOR, SEE SURVEY FOR GEOMETRY
 - ⬠ I - VEGETATION (SEE NOTE #3)
 - ⬠ J - P.I. STA. 45+16.79 (N: 632318.6074, E: 3404825.5767)
 - ⬠ K - P.I. STA. 47+76.13 (N: 632398.6165, E: 3405072.2681)
 - ⬠ L - RIP RAP PER SECTION 02711
 - ⬠ M - CATCH BASIN
 - ⬠ N - (128)
 - ⬠ O - AGGREGATE SURFACE COURSE, 6" THICK, APPROX. 45.7 CY
 - ⬠ P - BOAT LAUNCH
 - ⬠ Q - OBJECT MARKER PER DETAIL 100 C-1
 - ⬠ R - OUTFALL PROTECTION PER SHEET BM-02
 - ⬠ S - OBJECT MARKER PER DETAIL 101 C-1

- GENERAL NOTES:**
1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
 2. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED \bar{C} .
 3. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
 4. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
 5. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
 6. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02



SCALES:
 HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
 VERTICAL: 1" = 4'-0" (22"x34" SHEET)



SUBMITTED BY:
 ANDRE F. FORD, EL
 PROJECT MANAGER
 LICENSE NO. 37832

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 37832



MARK	RELEASED FOR BIDS & CONSTRUCTION	DATE	BY	CHKD.

DESIGNED BY:	DAM/ARF	DRAWN BY:	ARF/RMM	CHECKED BY:	DAM

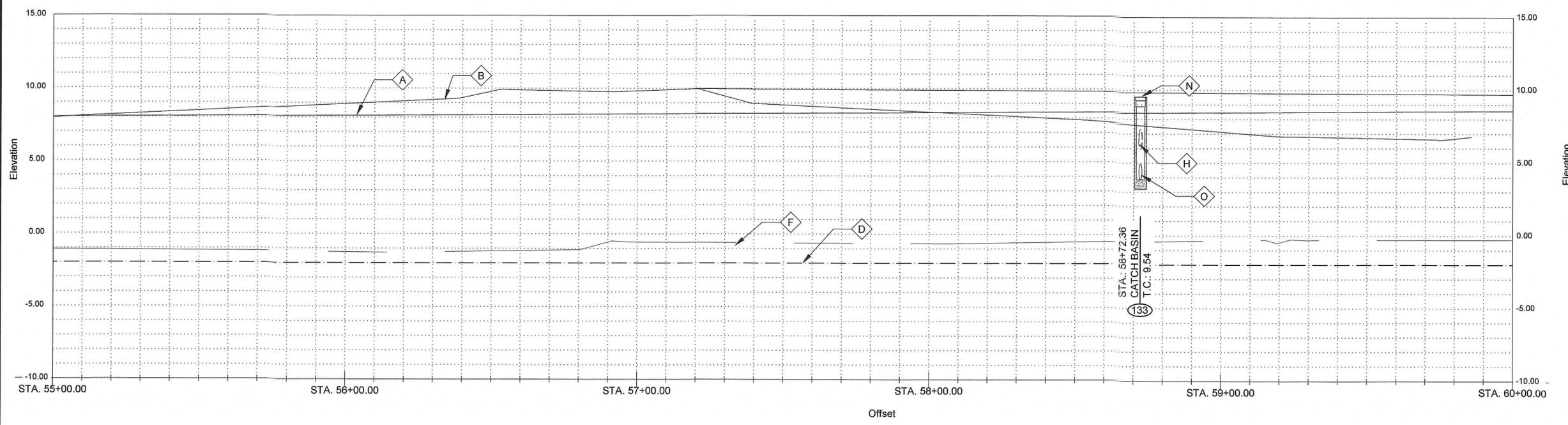
DATE: APRIL, 2019
 DETAILED BY: ARF/RMM
 HDC PROJECT NO. 2017-14

LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 PLAN & PROFILE



0 20' 40'
SCALE: 1"=20'-0" (22"x34" SHEET)

SCALES:
HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
VERTICAL: 1" = 4'-0" (22"x34" SHEET)



- GENERAL NOTES:**
1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
 2. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ℓ .
 3. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
 4. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
 5. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
 6. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

- NOTES BY SYMBOL:**
- \diamond A - TOP OF BANK (R.T.)
 - \diamond B - TOP OF BANK (L.T.)
 - \diamond C - BOTTOM OF CHANNEL (R.T.)
 - \diamond D - BOTTOM OF CHANNEL (EL. -2.0, ℓ OF NEW RIVER)
 - \diamond E - BOTTOM OF CHANNEL (L.T.)
 - \diamond F - SURVEYED ℓ OF NEW RIVER
 - \diamond G - 12" TREE, TO REMAIN
 - \diamond H - EXISTING 12" RCP, TO REMAIN, INV. 5.98
 - \diamond I - VEGETATION (SEE NOTE #3)
 - \diamond J - P.I. STA. 56+21.04 (N: 632408.8420, E: 3405912.9040)
 - \diamond K - P.I. STA. 59+15.13 (N: 632384.3869, E: 3406205.9715)
 - \diamond L - MAILBOX, TO REMAIN
 - \diamond M - OUTFALL PROTECTION PER SHEET BM-02
 - \diamond N - CATCH BASIN
 - \diamond O - 132
 - \diamond P - OBJECT MARKER PER DETAIL 100 C-1

SUBMITTED BY: ANDRE R. FORD, E.L. PROJECT MANAGER LICENSE NO. 37832	SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL LICENSE NO. 37832												
H. Davis Cole & Associates, LLC 42077 Churchpoint Road, Gonzales, LA 70737 NEW ORLEANS, LA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">MARK</th> <th style="width: 15%;">DESCRIPTION</th> <th style="width: 10%;">DATE</th> <th style="width: 10%;">BY</th> <th style="width: 10%;">CHKD.</th> <th style="width: 10%;">REVISION RECORD</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>		MARK	DESCRIPTION	DATE	BY	CHKD.	REVISION RECORD						
MARK	DESCRIPTION	DATE	BY	CHKD.	REVISION RECORD								
DESIGNED BY: DAM/ARF DATE: APRIL, 2019	DRAWN BY: ARF/RMM DETAILED BY: ARF/RMM												
CHECKED BY: DAM HDC PROJECT NO. 2017-14													
NEW RIVER CHANNEL IMPROVEMENTS LOUISIANA GONZALES EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1 42077 CHURCHPOINT ROAD, GONZALES, LA 70737 PLAN & PROFILE													
SHEET ID 1-C9													
SHEET SET 53 OF 82													



GENERAL NOTES:

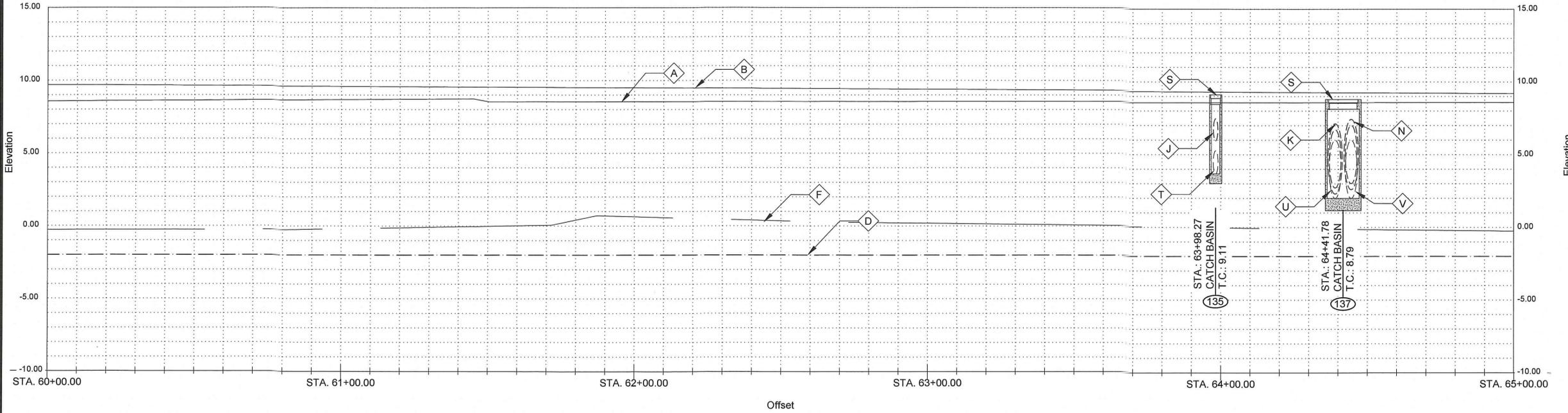
- SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
- ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ℓ .
- CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
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- SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
- PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

NOTES BY SYMBOL:

- \diamond A - TOP OF BANK (R.T.)
- \diamond B - TOP OF BANK (L.T.)
- \diamond C - BOTTOM OF CHANNEL (R.T.)
- \diamond D - BOTTOM OF CHANNEL (EL. -2.0, ℓ OF NEW RIVER)
- \diamond E - BOTTOM OF CHANNEL (L.T.)
- \diamond F - SURVEYED ℓ OF NEW RIVER
- \diamond G - 6" TREE, TO REMAIN
- \diamond H - 8" TREE, TO REMAIN
- \diamond I - VEGETATION (SEE NOTE #3)
- \diamond J - EXISTING 18" CMP, TO REMAIN, INV. 5.97
- \diamond K - EXISTING 48" RCP, TO REMAIN, INV. 2.60
- \diamond L - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
- \diamond M - CONTROL POINT (BY SURVEYOR), SEE SURVEY FOR GEOMETRY
- \diamond N - EXISTING 48" RCP, TO REMAIN, INV. 2.60
- \diamond O - P.I. STA. 61+87.27 (N: 632467.1034, E: 3406465.2355)
- \diamond P - P.I. STA. 64+31.12 (N: 632608.1651, E: 3406664.1442)
- \diamond Q - MAILBOX, TO REMAIN
- \diamond R - OUTFALL PROTECTION PER SHEET BM-02
- \diamond S - CATCH BASIN
- \diamond T - (134)
- \diamond U - (136)
- \diamond V - (138)
- \diamond W - OBJECT MAKER PER DETAIL 100 C-1
- \diamond X - REINSTALL EXISTING FLAP GATE ON EXTENDED PIPE (SEE DEMOLITION SHEET). EXTEND WIRE ROPE



SCALES:
 HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
 VERTICAL: 1" = 4'-0" (22"x34" SHEET)



04/26/2019

STATE OF LOUISIANA
 CIVIL ENGINEERING
 DAVID ALAN WIRTH
 License No. 37852
 PROJECT MANAGER

STATE OF LOUISIANA
 CIVIL ENGINEERING
 H. Davis Cole & Associates, LLC
 License No. 37852
 PRINCIPAL

HPC
 H. Davis Cole & Associates, LLC
 Consulting Engineers
 NEW ORLEANS, LA

MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

DESIGNED BY:	DAM/ARF
DRAWN BY:	ARF/RMM
CHECKED BY:	DAM

DATE:	APRIL, 2019
DETAILED BY:	ARF/RMM
HDC PROJECT NO.:	2017-14

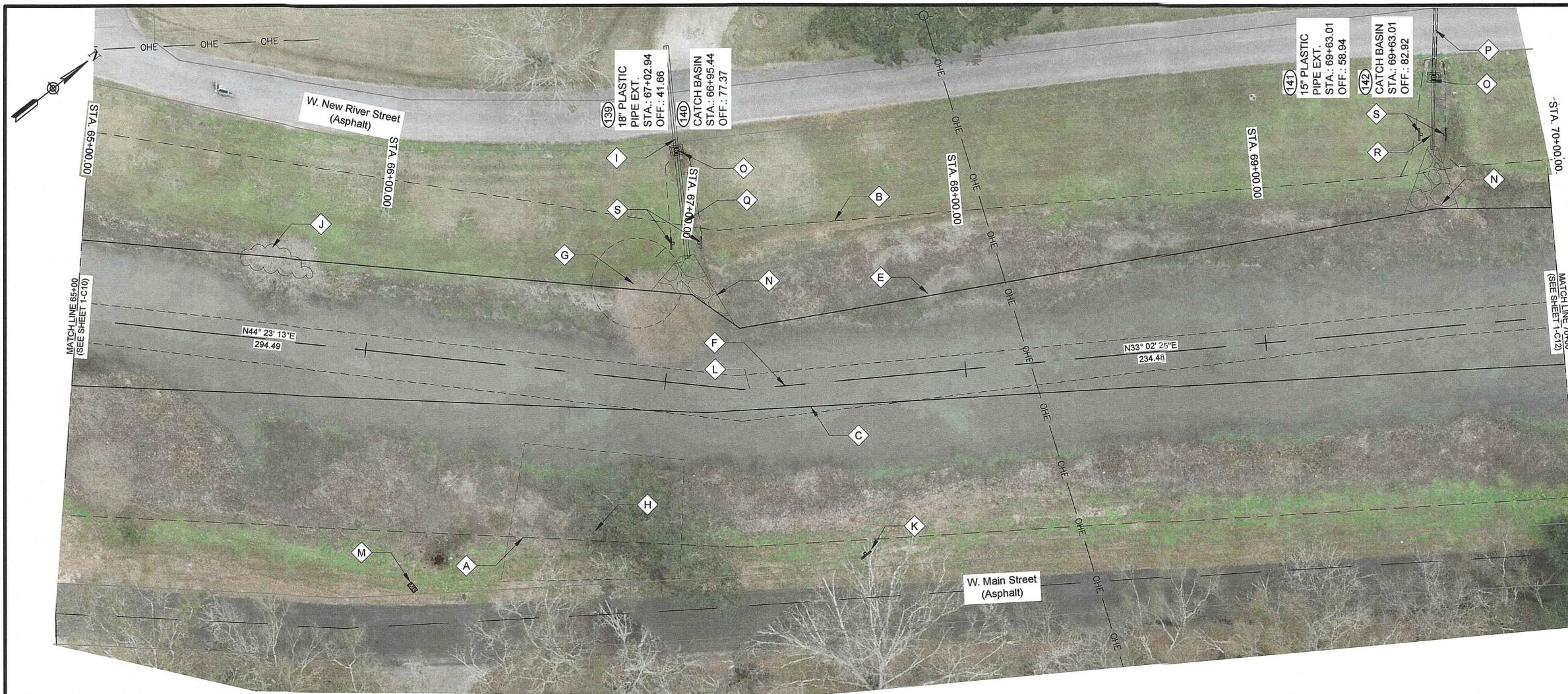
NEW RIVER CHANNEL IMPROVEMENTS

LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737

PLAN & PROFILE

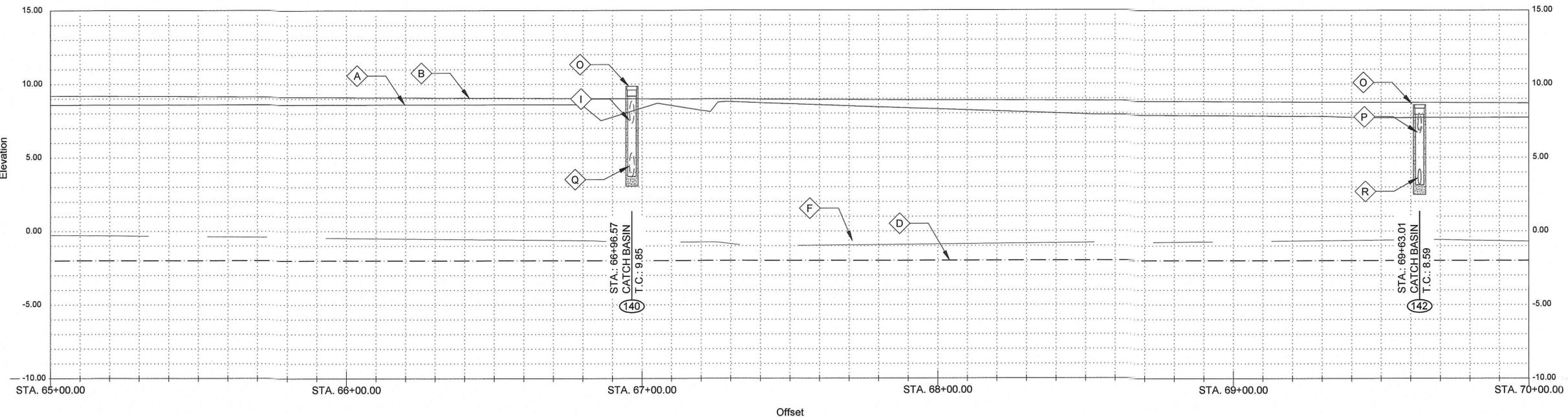
SHEET ID
1-C10

SHEET SET
54 OF **82**



0 20' 40'
SCALE: 1"=20'-0" (22"x34" SHEET)

SCALES:
HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
VERTICAL: 1" = 4'-0" (22"x34" SHEET)



- GENERAL NOTES:**
- SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
 - ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED CL.
 - CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
 - SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
 - SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
 - PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

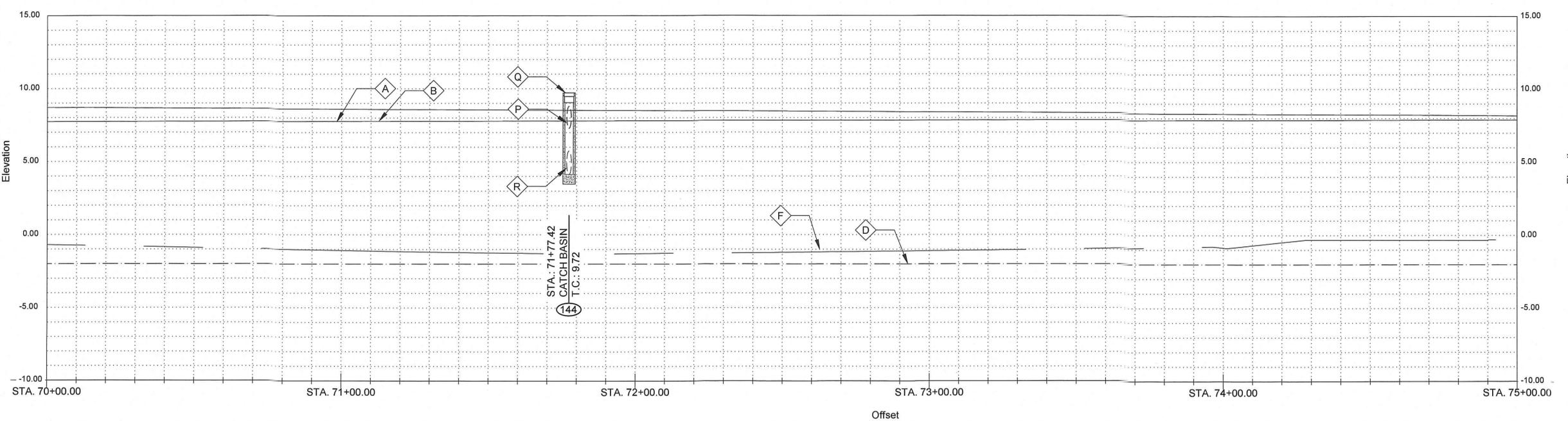
- NOTES BY SYMBOL:**
- ⬡ A - TOP OF BANK (R.T.)
 - ⬡ B - TOP OF BANK (L.T.)
 - ⬡ C - BOTTOM OF CHANNEL (R.T.)
 - ⬡ D - BOTTOM OF CHANNEL (EL. -2.0, CL OF NEW RIVER)
 - ⬡ E - BOTTOM OF CHANNEL (L.T.)
 - ⬡ F - SURVEYED CL OF NEW RIVER
 - ⬡ G - 48" CYPRESS, TO REMAIN
 - ⬡ H - 48" OAK, TO REMAIN
 - ⬡ I - EXISTING 18" CMP, TO REMAIN, INV. 7.34
 - ⬡ J - VEGETATION (SEE NOTE #3)
 - ⬡ K - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
 - ⬡ L - P.I. STA. 67+25.61 (N: 632818.6168, E: 340870.1406)
 - ⬡ M - MAILBOX, TO REMAIN
 - ⬡ N - OUTFALL PROTECTION PER SHEET BM-02
 - ⬡ O - CATCH BASIN
 - ⬡ P - EXISTING 12" RCP, TO REMAIN, INV. 6.67
 - ⬡ Q - (139)
 - ⬡ R - (141)
 - ⬡ S - OBJECT MARKER PER DETAIL 100 C-1

SUBMITTED BY: ANDRIE R. FORD, E.L. PROJECT MANAGER LICENSE NO.	SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL LICENSE NO. 37832
H. Davis Cole & Associates, LLC <small>Consulting Engineers</small> NEW ORLEANS, LA	
DESIGNED BY: DAM/ARE	CHECKED BY: DAM
DATE: APRIL, 2019	HDC PROJECT NO. 2017-14
DRAWN BY: ARF/RMM	REVISION RECORD
NEW RIVER CHANNEL IMPROVEMENTS LOUISIANA EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1 42077 CHURCHPOINT ROAD, GONZALES, LA 70737 PLAN & PROFILE	
SHEET ID 1-C11	
SHEET SET 55 OF 82	



SCALE: 1"=20'-0" (22"x34" SHEET)

SCALES:
 HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
 VERTICAL: 1" = 4'-0" (22"x34" SHEET)



GENERAL NOTES:

1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
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5. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
6. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

NOTES BY SYMBOL:

- \diamond A - TOP OF BANK (R.T.)
- \diamond B - TOP OF BANK (L.T.)
- \diamond C - BOTTOM OF CHANNEL (R.T.)
- \diamond D - BOTTOM OF CHANNEL (EL. -2.0, ℓ OF NEW RIVER)
- \diamond E - BOTTOM OF CHANNEL (L.T.)
- \diamond F - SURVEYED ℓ OF NEW RIVER
- \diamond G - CONTROL POINT (BY SURVEYOR), SEE SURVEY FOR GEOMETRY
- \diamond H - 48" LIVE OAK, TO REMAIN
- \diamond I - VEGETATION (SEE NOTE #3)
- \diamond J - P.I. STA. 71+82.94 (N: 633201.2515, E: 3407120.6177)
- \diamond K - P.I. STA. 74+28.12 (N: 633401.8212, E: 3407261.6290)
- \diamond L - 36" OAK, TO REMAIN
- \diamond M - 24" CYPRESS, TO REMAIN
- \diamond N - MAILBOX, TO REMAIN
- \diamond O - OUTFALL PROTECTION PER SHEET BM-02
- \diamond P - EXISTING 18" CMP, TO REMAIN, INV. 7.30
- \diamond Q - CATCH BASIN
- \diamond R - 143
- \diamond S - OBJECT MARKER PER DETAIL 100 C-1



SUBMITTED BY:
 SHREVE FORD ELLIOTT
 PROJECT MANAGER

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

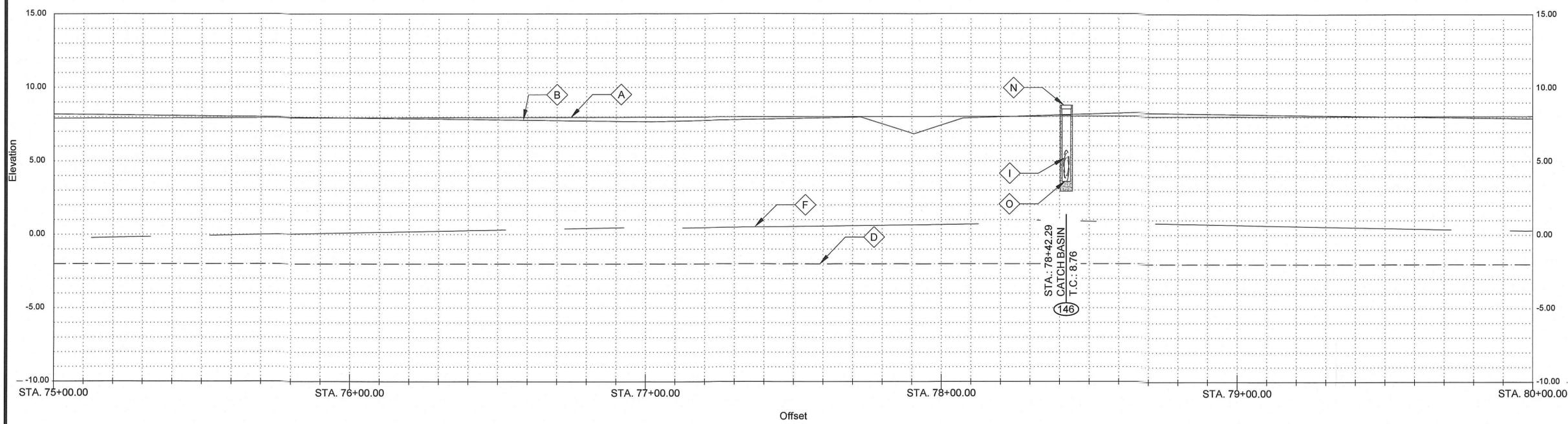
DESIGNED BY:	DATE:	DRAWN BY:	CHECKED BY:
DAM/ARF	APRIL, 2019	ARF/RMM	DAM

NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 PLAN & PROFILE



0 20' 40'
SCALE: 1"=20'-0" (22"x34" SHEET)

SCALES:
HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
VERTICAL: 1" = 4'-0" (22"x34" SHEET)

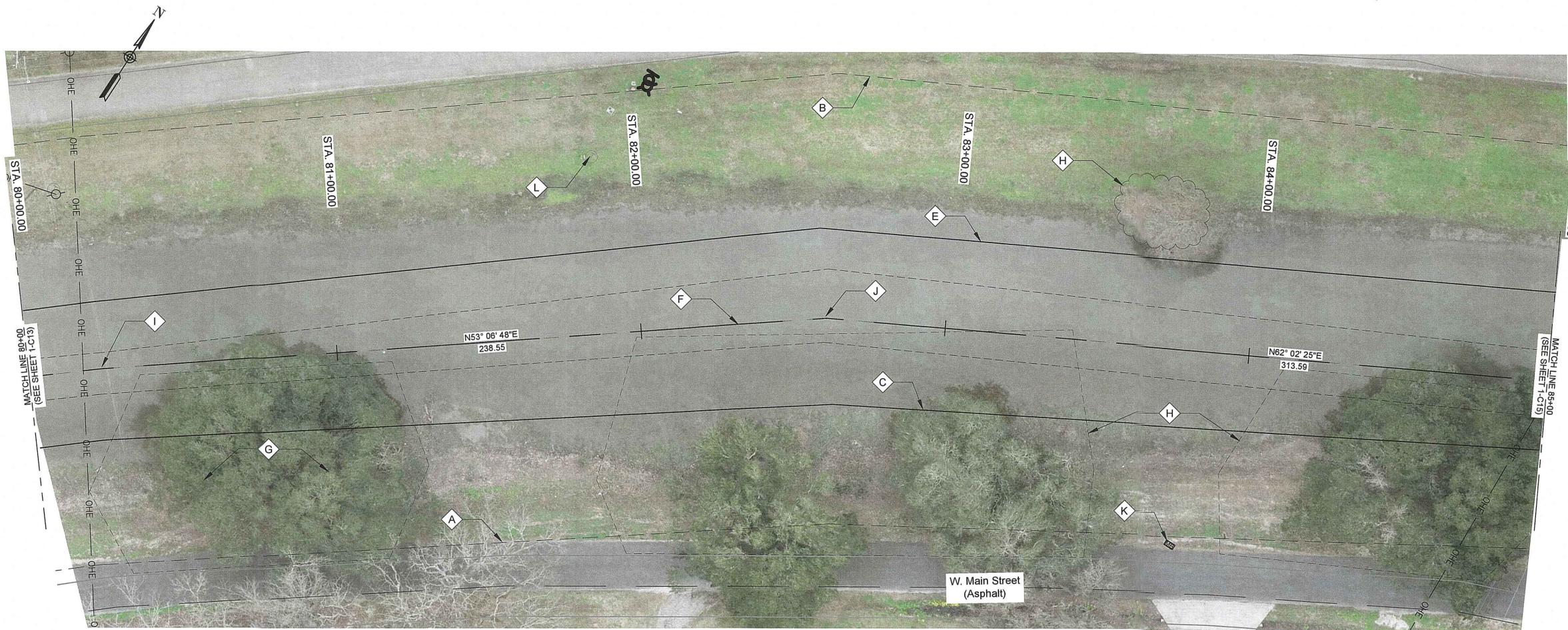


- GENERAL NOTES:**
- SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
 - ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED \bar{C} .
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 - SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
 - SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
 - PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

- NOTES BY SYMBOL:**
- \diamond A - TOP OF BANK (R.T.)
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 - \diamond C - BOTTOM OF CHANNEL (R.T.)
 - \diamond D - BOTTOM OF CHANNEL (EL. -2.0, \bar{C} OF NEW RIVER)
 - \diamond E - BOTTOM OF CHANNEL (L.T.)
 - \diamond F - SURVEYED \bar{C} OF NEW RIVER
 - \diamond G - 84" LIVE OAK, TO REMAIN
 - \diamond H - 24" OAK, TO REMAIN
 - \diamond I - EXISTING 18" RCP, TO REMAIN, INV. 3.78
 - \diamond J - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
 - \diamond K - P.I. STA. 77+57.68 (N: 633612.2527, E: 3407515.2579)
 - \diamond L - MAILBOX, TO REMAIN
 - \diamond M - OUTFALL PROTECTION PER SHEET BM-02
 - \diamond N - CATCH BASIN
 - \diamond O - (145)
 - \diamond P - OBJECT MARKER PER DETAIL 100 C-1

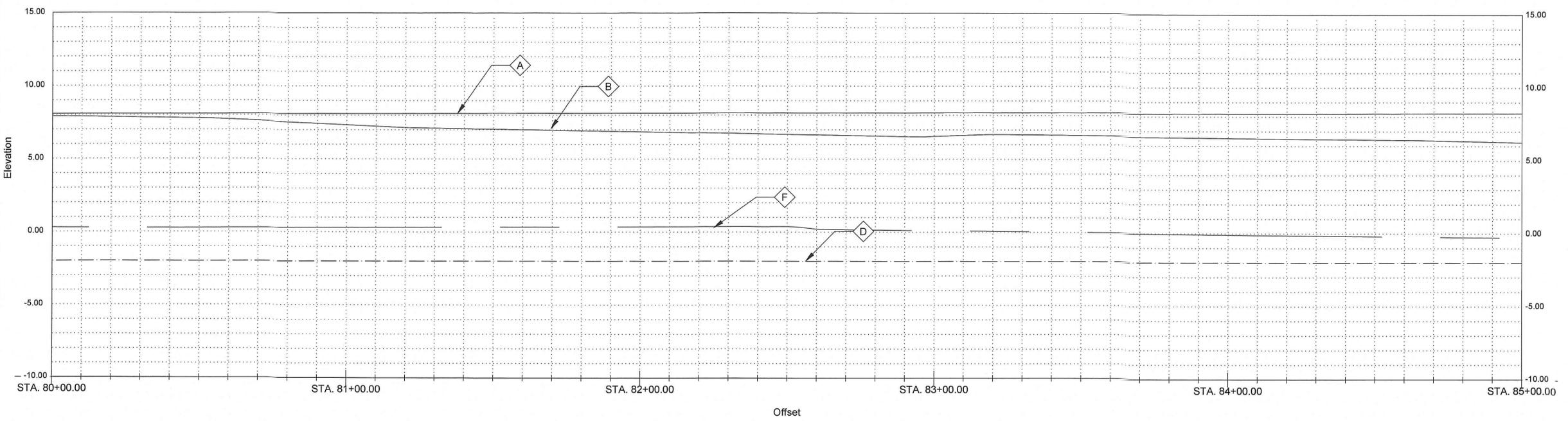
HDC
H. Davis Cole & Associates, LLC
Consulting Engineers
NEW ORLEANS, LA

SUBMITTED BY: ANDREW FORD, E.I. PROJECT MANAGER LICENSE NO. 37892	SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL LICENSE NO. 37892		
RELEASED FOR BIDS & CONSTRUCTION DATE: 04/2019 DESCRIPTION:			
REVISION RECORD			
DESIGNED BY:	DAM/ARF	DRAWN BY:	ARF/RMM
DATE:	APRIL, 2019	CHECKED BY:	DAM
DETAILED BY:	ARF/RMM	HDC-PROJECT NO.:	2017-14
NEW RIVER CHANNEL IMPROVEMENTS LOUISIANA GONZALES		EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1 42077 CHURCHPOINT ROAD, GONZALES, LA 70737 PLAN & PROFILE	
SHEET ID 1-C13			
SHEET SET 57 OF 82			



0 20' 40'
SCALE: 1"=20'-0" (22"x34" SHEET)

SCALES:
HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
VERTICAL: 1" = 4'-0" (22"x34" SHEET)



- GENERAL NOTES:**
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 2. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
 3. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
 4. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

- NOTES BY SYMBOL:**
- ◇ A - TOP OF BANK (R.T.)
 - ◇ B - TOP OF BANK (L.T.)
 - ◇ C - BOTTOM OF CHANNEL (R.T.)
 - ◇ D - BOTTOM OF CHANNEL (EL. -2.0, ℓ OF NEW RIVER)
 - ◇ E - BOTTOM OF CHANNEL (L.T.)
 - ◇ F - SURVEYED ℓ OF NEW RIVER
 - ◇ G - 48" TREE, TO REMAIN
 - ◇ H - VEGETATION (SEE NOTE #3)
 - ◇ I - P.I. STA. 80+22.37 (N: 633779.5036, E: 3407720.4189)
 - ◇ J - P.I. STA. 82+60.92 (N: 633922.6885, E: 3407911.2161)
 - ◇ K - MAILBOX, TO REMAIN
 - ◇ L - TELEPHONE POLE, TO REMAIN



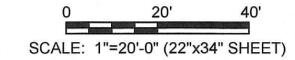
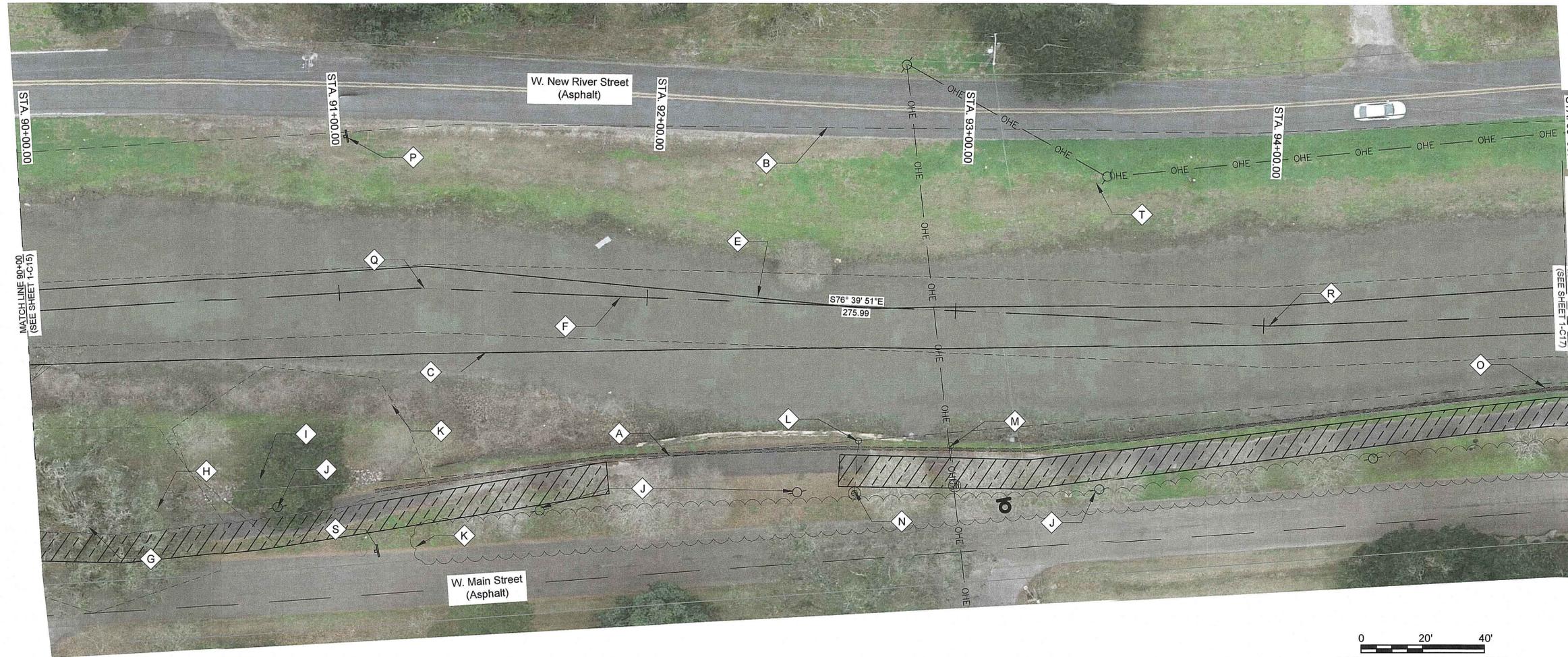
SUBMITTED BY: PROJECT MANAGER
SUBMITTED BY: PRINCIPAL
LICENSE NO. 37852



MARK	DESCRIPTION	DATE	BY	CHKD.

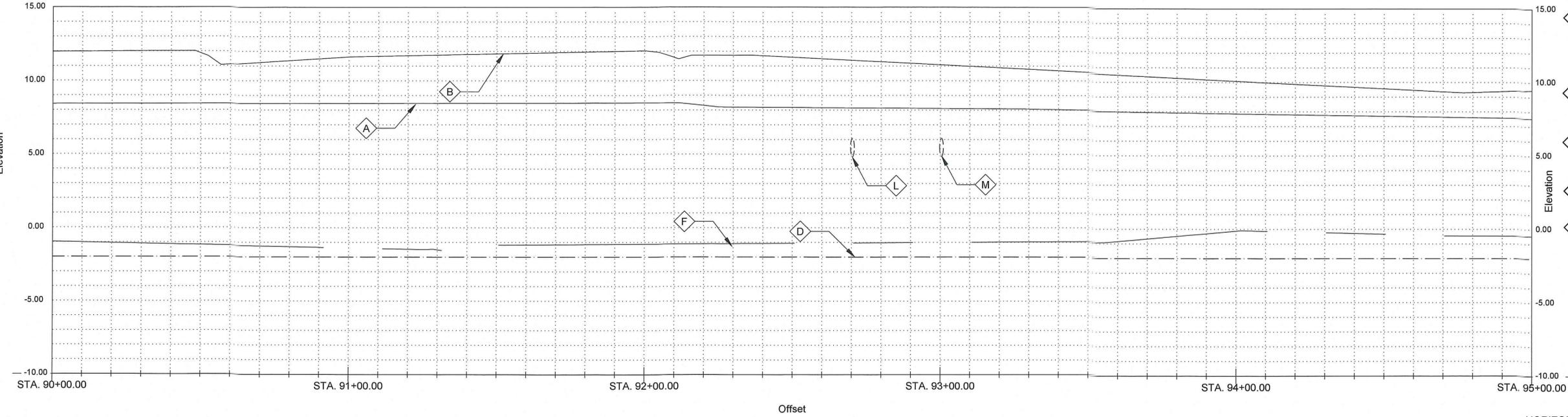
DESIGNED BY: DAM/ARF	DRAWN BY: ARF/RMM	CHECKED BY: DAM
DATE: APRIL, 2019	DETAILED BY: ARF/RMM	HDC PROJECT NO: 2017-14

NEW RIVER CHANNEL IMPROVEMENTS
LOUISIANA
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
PLAN & PROFILE



- GENERAL NOTES:**
1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
 2. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED \bar{C} .
 3. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
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- NOTES BY SYMBOL:**
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 - ◊ B - TOP OF BANK (L.T.)
 - ◊ C - BOTTOM OF CHANNEL (R.T.)
 - ◊ D - BOTTOM OF CHANNEL (EL. -2.0', \bar{C} OF NEW RIVER)
 - ◊ E - BOTTOM OF CHANNEL (L.T.)
 - ◊ F - SURVEYED \bar{C} OF NEW RIVER
 - ◊ G - 48" OAK, TO REMAIN
 - ◊ H - CONCRETE RIP-RAP
 - ◊ I - STREET LIGHTBOX
 - ◊ J - LIGHT POLE
 - ◊ K - VEGETATION (SEE NOTE #3)
 - ◊ L - EXISTING 15" CMP, TO REMAIN, INV. 4.83
 - ◊ M - EXISTING 15" CMP, TO REMAIN, INV. 4.84
 - ◊ N - DRAIN INLET WITH 15" CMP, TO REMAIN
 - ◊ O - WOODEN BULKHEAD
 - ◊ P - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
 - ◊ Q - P.I. STA. 91+25.74 (N: 634038.6374, E: 3408736.8548)
 - ◊ R - P.I. STA. 94+01.73 (N: 633974.9783, E: 3409005.4043)
 - ◊ S - EXISTING OBJECT MARKER, TO REMAIN
 - ◊ T - TELEPHONE POLE, TO REMAIN



- REVISION RECORD**
- | MARK | DESCRIPTION | DATE | BY | CHKD |
|------|----------------------------------|---------|-----|------|
| * | RELEASED FOR BIDS & CONSTRUCTION | 04/2019 | ARF | DAM |

SUBMITTED BY: **DAVID AL MARTIN**, PROJECT MANAGER, LICENSE NO. 37852
 SUBMITTED BY: **H. Davis Cole & Associates, LLC**, PRINCIPAL, LICENSE NO. 37852

HDC
 H. Davis Cole & Associates, LLC
 Consulting Engineers
 NEW ORLEANS, LA

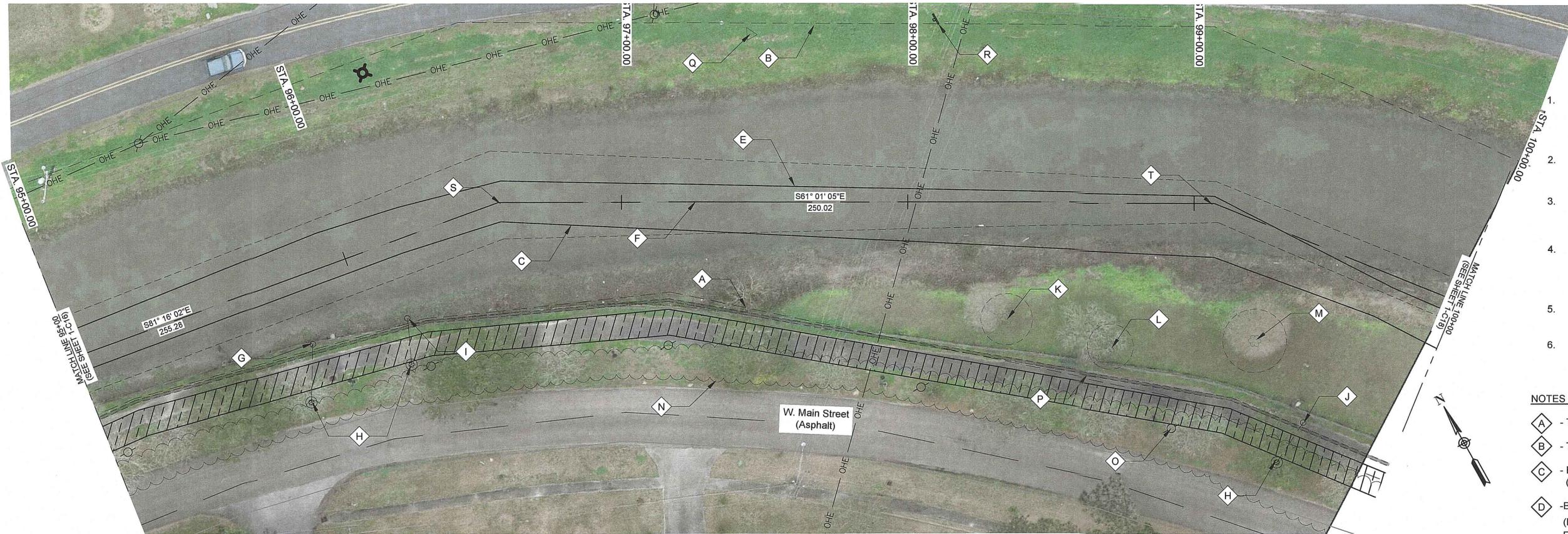
DESIGNED BY:	DAM/ARF
DRAWN BY:	ARF/RMM
CHECKED BY:	DAM

DATE:	APRIL, 2019
DETAILED BY:	ARF/RMM
HDC PROJECT NO.:	2017-14

LOUISIANA
 NEW RIVER CHANNEL IMPROVEMENTS
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 PLAN & PROFILE

SHEET ID: **1-C16**
 SHEET SET: **60** OF **82**

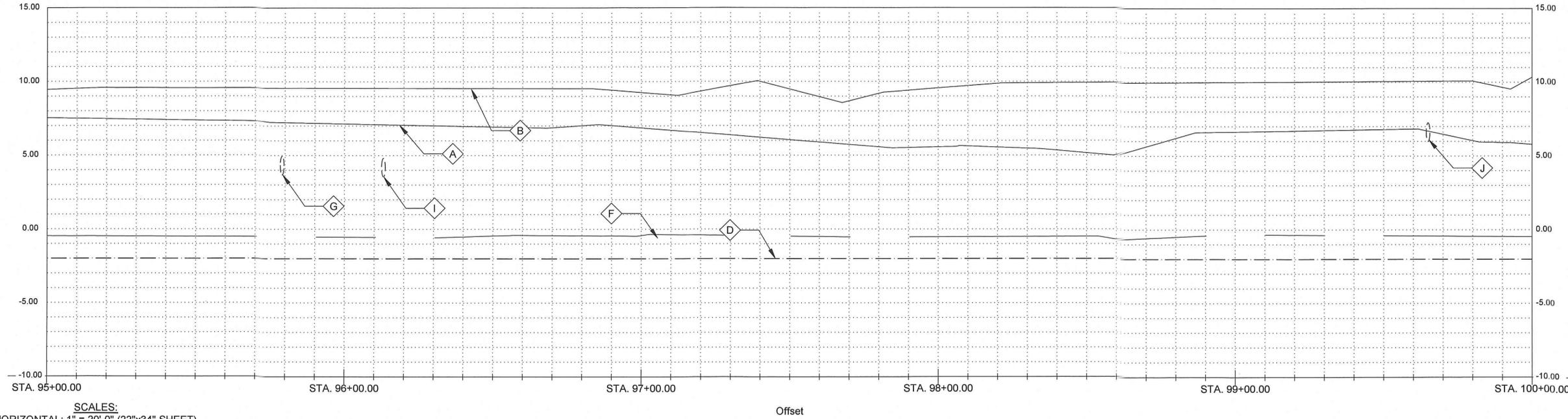
SCALES:
 HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
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0 20' 40'
SCALE: 1"=20'-0" (22"x34" SHEET)

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 - \mathcal{E} - BOTTOM OF CHANNEL (L.T.)
 - \mathcal{F} - SURVEYED \mathcal{C} OF NEW RIVER
 - \mathcal{G} - EXISTING 15" CMP, TO REMAIN, INV. 3.70
 - \mathcal{H} - EXISTING DRAIN INLET WITH 15" CMP, TO REMAIN
 - \mathcal{I} - EXISTING 15" CMP, TO REMAIN, INV. 3.65
 - \mathcal{J} - EXISTING 15" CMP, TO REMAIN, INV. 6.00
 - \mathcal{K} - 12" TREE, TO REMAIN
 - \mathcal{L} - 18" CREPE MYRTLE, TO REMAIN
 - \mathcal{M} - 24" TREE, TO REMAIN
 - \mathcal{N} - VEGETATION (SEE NOTE #3)
 - \mathcal{O} - LIGHT POLE
 - \mathcal{P} - BENCH
 - \mathcal{Q} - CONTROL POINT (BY SURVEYOR), SEE SURVEY FOR GEOMETRY
 - \mathcal{R} - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
 - \mathcal{S} - P.I. STA. 96+57.01 (N: 633936.2198, E: 3409257.7254)
 - \mathcal{T} - P.I. STA. 99+07.03 (N: 633815.0746, E: 3409476.4384)



SCALES:
HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
VERTICAL: 1" = 4'-0" (22"x34" SHEET)

04/26/2017

SUBMITTED BY: **EL PROJECT MANAGER** LICENSE NO. _____
 SUBMITTED BY: **H. Davis Cole & Associates, LLC** LICENSE NO. 27892
CONSULTING ENGINEER PRINCIPAL

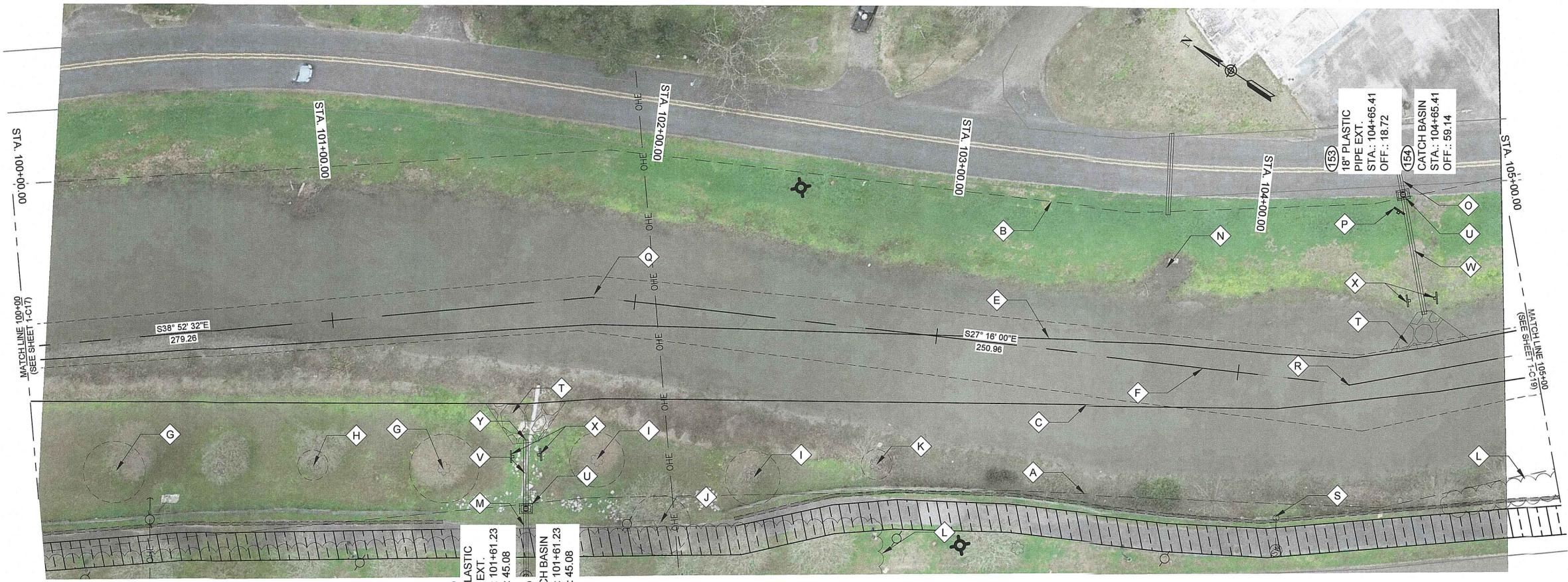
H. Davis Cole & Associates, LLC
Consulting Engineers
NEW ORLEANS, LA

REVISION	DATE	BY	CHKD

DESIGNED BY: DAM/ARF	DRAWN BY: ARF/RMM	CHECKED BY: DAM
DATE: APRIL, 2019	DETAILED BY: ARF/RMM	HDC PROJECT NO. 2017-14

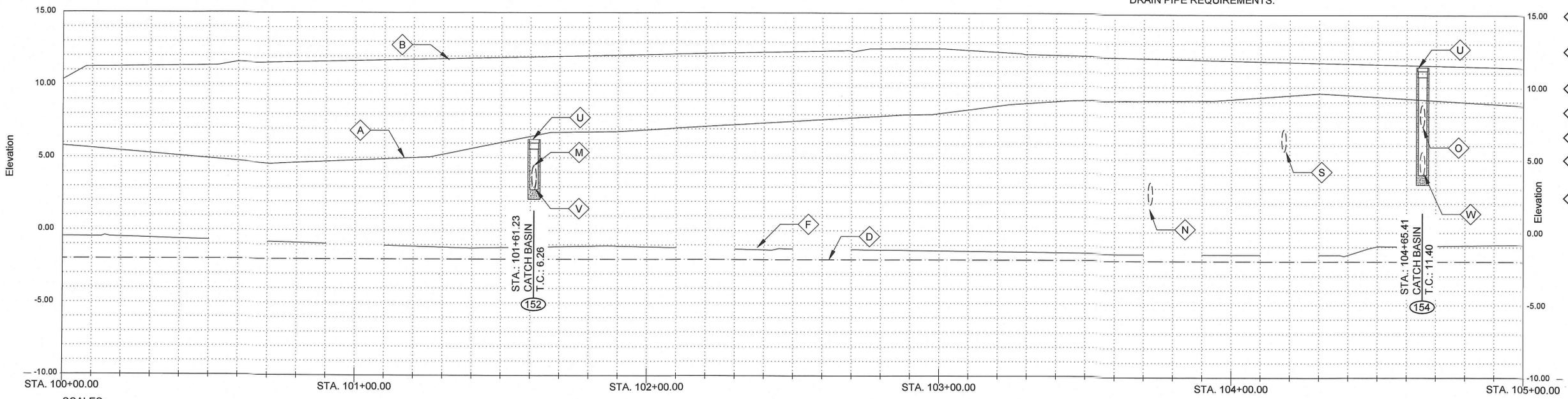
NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 PLAN & PROFILE

SHEET ID: **1-C17**
 SHEET SET: **61** OF **82**



0 20' 40'
SCALE: 1"=20'-0" (22"x34" SHEET)

- GENERAL NOTES:**
- SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
 - ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED CL.
 - CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
 - SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
 - SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
 - PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02



SCALES:
HORIZONTAL: 1"=20'-0" (22"x34" SHEET)
VERTICAL: 1"=4'-0" (22"x34" SHEET)

- NOTES BY SYMBOL:**
- ⬡ - TOP OF BANK (R.T.)
 - ⬡ - TOP OF BANK (L.T.)
 - ⬢ - BOTTOM OF CHANNEL (R.T.)
 - ⬢ - BOTTOM OF CHANNEL (L.T.)
 - ⬢ - SURVEYED CL OF NEW RIVER
 - ⬢ - 20" TREE, TO REMAIN
 - ⬢ - 18" CREPE MYRTLE, TO REMAIN
 - ⬢ - 12" CYPRESS, TO REMAIN
 - ⬢ - 24" CREPE MYRTLE, TO REMAIN
 - ⬢ - 6" TREE, TO REMAIN
 - ⬢ - VEGETATION (SEE NOTE #3)
 - ⬢ - EXISTING 18" CMP, TO REMAIN, INV. 2.96
 - ⬢ - EXISTING 18" RCP, TO REMAIN, INV. 1.92
 - ⬢ - EXISTING 18" CMP, TO REMAIN, INV. 7.30
 - ⬢ - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
 - ⬢ - P.I. STA. 101+86.29 (N: 633597.6685, E: 3409651.7103)
 - ⬢ - P.I. STA. 104+37.25 (N: 633374.5940, E: 3409766.6837)
 - ⬢ - 48" CMP (DAMAGED), TO REMAIN, INV. 2.04
 - ⬢ - OUTFALL PROTECTION PER SHEET BM-02
 - ⬢ - CATCH BASIN
 - ⬢ - (151)
 - ⬢ - (153)
 - ⬢ - OBJECT MARKER PER DETAIL 100 C-1
 - ⬢ - EXISTING FLAP GATE, TO BE REMOVED AND DELIVERED TO OWNER SPECIFIED LOCATION, TBD. INSTALL NEW FLAP GATE ON PIPE EXTENSION.



SUBMITTED BY:
ANDRE F. FORD, P.E.
PROJECT MANAGER
LICENSE NO. 37839

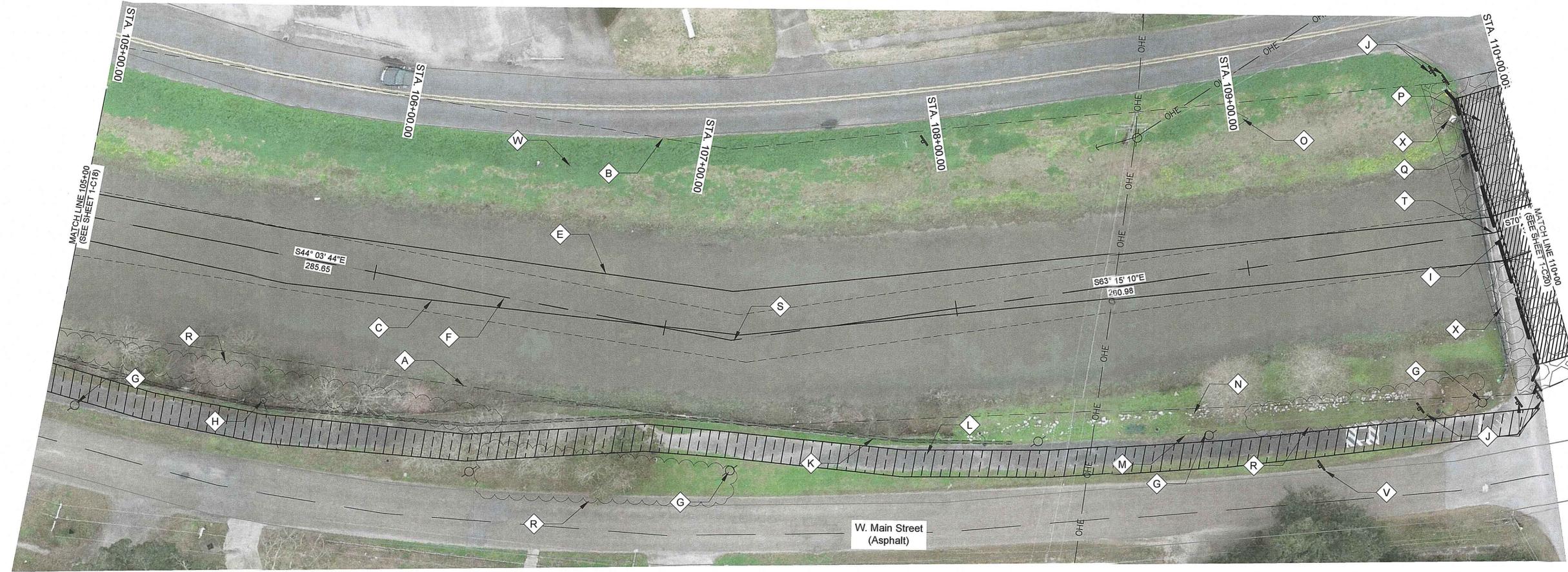
SUBMITTED BY:
H. DAVIS COLE & ASSOCIATES, LLC
PRINCIPAL ENGINEER
LICENSE NO. 37839



MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/20/19	ARF	DAM

DATE	DESIGNED BY:	DRAWN BY:	CHECKED BY:
APRIL, 2019	DAM/ARF	ARF/RMM	DAM

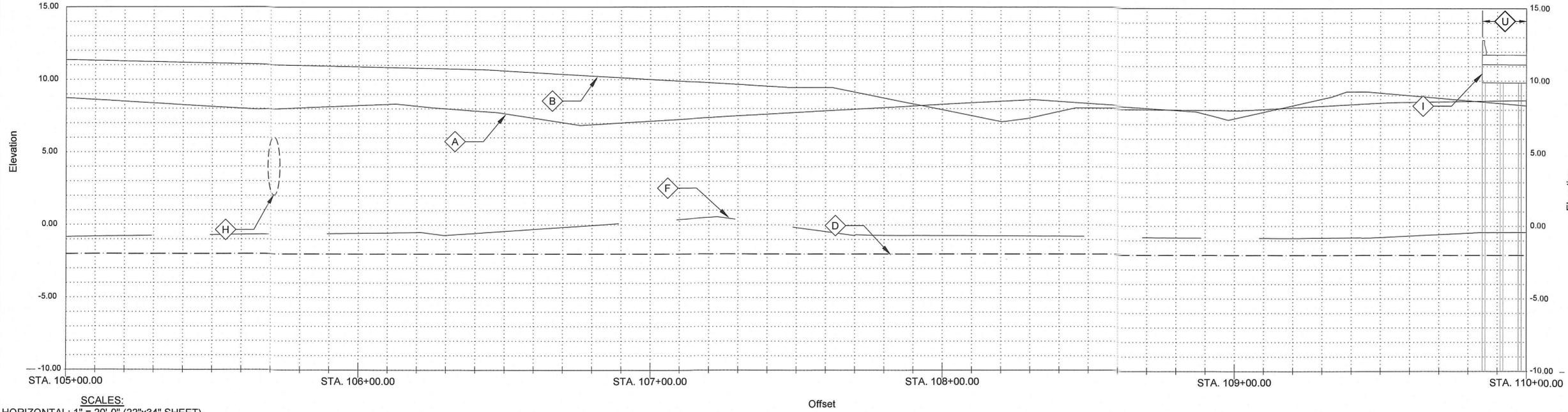
NEW RIVER CHANNEL IMPROVEMENTS
LOUISIANA
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
PLAN & PROFILE



0 20' 40'
SCALE: 1"=20'-0" (22"x34" SHEET)

GENERAL NOTES:

1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
2. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED \bar{C} .
3. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED.
4. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
5. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
6. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02



SCALES:
HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
VERTICAL: 1" = 4'-0" (22"x34" SHEET)

NOTES BY SYMBOL:

- A - TOP OF BANK (R.T.)
- B - TOP OF BANK (L.T.)
- C - BOTTOM OF CHANNEL (R.T.)
- D - BOTTOM OF CHANNEL (EL. -2.0', \bar{C} OF NEW RIVER)
- E - BOTTOM OF CHANNEL (L.T.)
- F - SURVEYED \bar{C} OF NEW RIVER
- G - LIGHT POLE
- H - EXISTING 48" CMP, TO REMAIN, INV. 2.04
- I - N. MARCHAND AVE BRIDGE, 24 BRIDGE PILES, 15" x 15" CONCRETE CAP WITH 12" WOOD PILES
- J - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
- K - WOODEN BULKHEAD
- L - ASPHALT BIKE PATH
- M - BENCH
- N - CONCRETE RIP-RAP
- O - CONTROL POINT (BY SURVEYOR), SEE SURVEY FOR GEOMETRY
- P - CONCRETE BRIDGE DECK
- Q - 8" ABOVE GROUND SEWER LINE
- R - VEGETATION (SEE NOTE #3)
- S - P.I. STA. 107+22.90 (N: 633169.3321, E: 3409965.3340)
- T - P.I. STA. 109+83.88 (N: 633051.8745, E: 3410198.3935)
- U - SEE SPECIAL PROVISIONS FOR REQUIREMENTS FOR EXCAVATION IN THIS AREA
- V - EXISTING OBJECT MARKER, TO REMAIN
- W - TELEPHONE POLE, TO REMAIN
- X - RIP RAP PER SECTION 02711



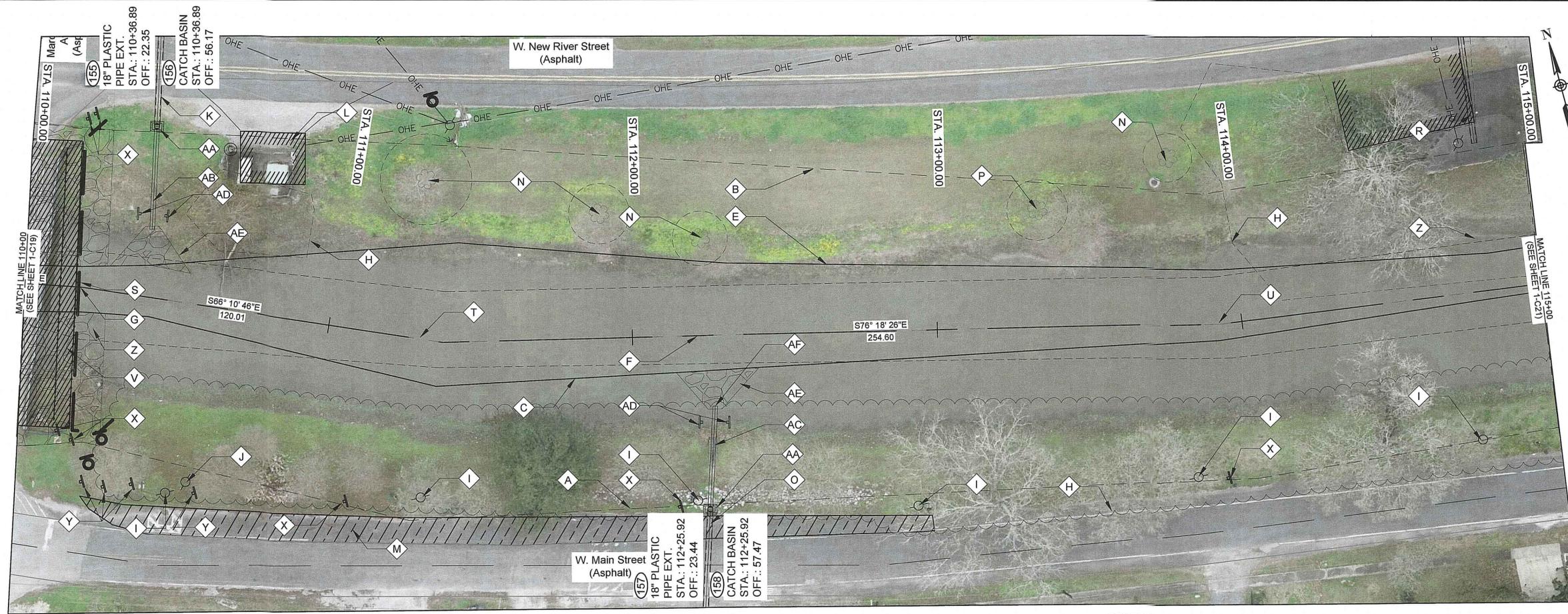
SUBMITTED BY: PROJECT MANAGER
SUBMITTED BY: PRINCIPAL
LICENSE NO.
LICENSE NO.



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF/RMM	

DATE	DESIGNED BY:	DRAWN BY:	CHECKED BY:
APRIL, 2019	DAM/ARF	ARF/RMM	DAM

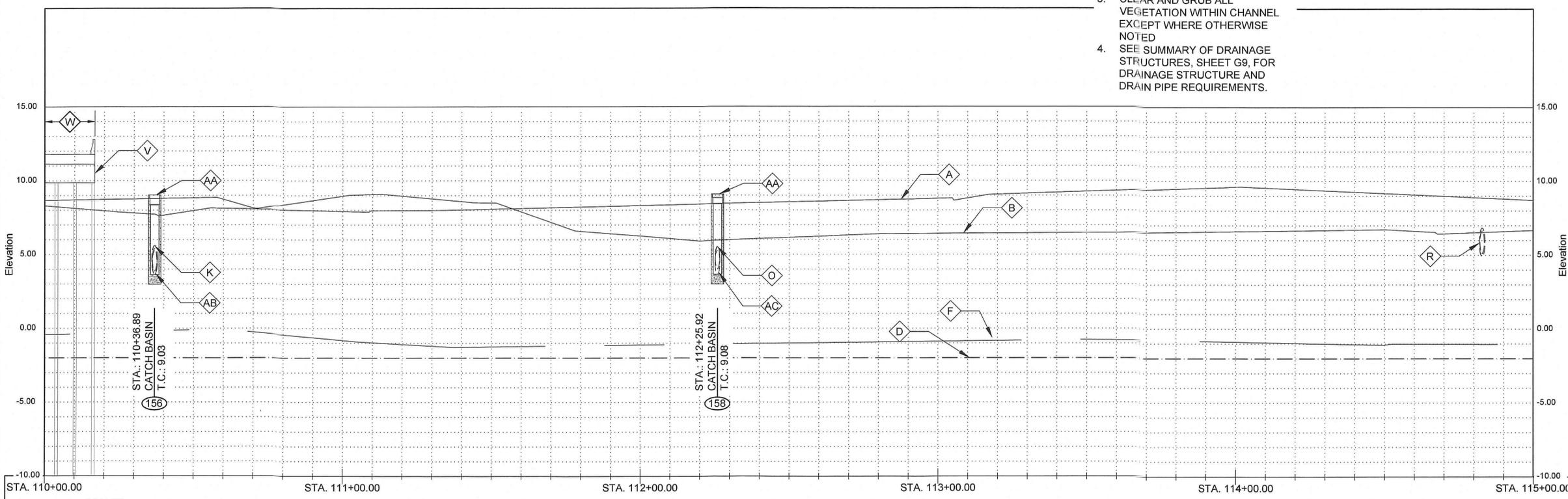
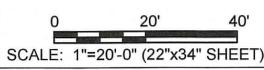
NEW RIVER CHANNEL IMPROVEMENTS
LOUISIANA
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
PLAN & PROFILE



- NOTES BY SYMBOL:**
- △ - TOP OF BANK (R.T.)
 - △ - TOP OF BANK (L.T.)
 - △ - BOTTOM OF CHANNEL (R.T.)
 - △ - BOTTOM OF CHANNEL (EL. -2.0', CL OF NEW RIVER)
 - △ - BOTTOM OF CHANNEL (L.T.)
 - △ - SURVEYED CL OF NEW RIVER
 - △ - 8" WATERLINE CROSSING ALONG BRIDGE DECK, TO REMAIN
 - △ - VEGETATION (SEE NOTE #3)
 - △ - LIGHT POLE
 - △ - POWER POLE WITH UNDERGROUND ELECTRIC LINE, TO REMAIN
 - △ - EXISTING 15" RCP, TO REMAIN, INV. 3.68
 - △ - SEWER LIFT STATION
 - △ - ASPHALT BIKE PATH
 - △ - 18" CYPRESS, TO REMAIN
 - △ - EXISTING 18" CMP, TO REMAIN, INV. 4.02
 - △ - 24" CYPRESS, TO REMAIN
 - △ - CONCRETE HEADWALL
 - △ - EXISTING 18" RCP, TO REMAIN, INV. 4.93
 - △ - P.I. STA. 110+17.86 (N: 633040.7195, E: 3410230.4838)
 - △ - P.I. STA. 111+37.87 (N: 632992.2488, E: 3410340.2750)
 - △ - P.I. STA. 113+92.47 (N: 632931.9805, E: 3410587.6410)
 - △ - N. MARCHAND AVE BRIDGE, 24 BRIDGE PILES, 15" x 15" CONCRETE CAP WITH 12" WOOD PILES
 - △ - SEE SPECIAL PROVISIONS FOR REQUIREMENTS FOR EXCAVATION IN THIS AREA
 - △ - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
 - △ - EXISTING OBJECT MARKER, TO REMAIN
 - △ - RIP RAP PER SECTION 02711
 - △ - CATCH BASIN
 - △ - (155)
 - △ - (157)
 - △ - OBJECT MARKER PER DETAIL 100 C-1
 - △ - OUTFALL PROTECTION PER SHEET BM-02
 - △ - EXISTING FLAP GATE, TO BE REMOVED AND DELIVERED TO OWNER SPECIFIED LOCATION, TBD. INSTALL NEW FLAP GATE ON PIPE EXTENSION.

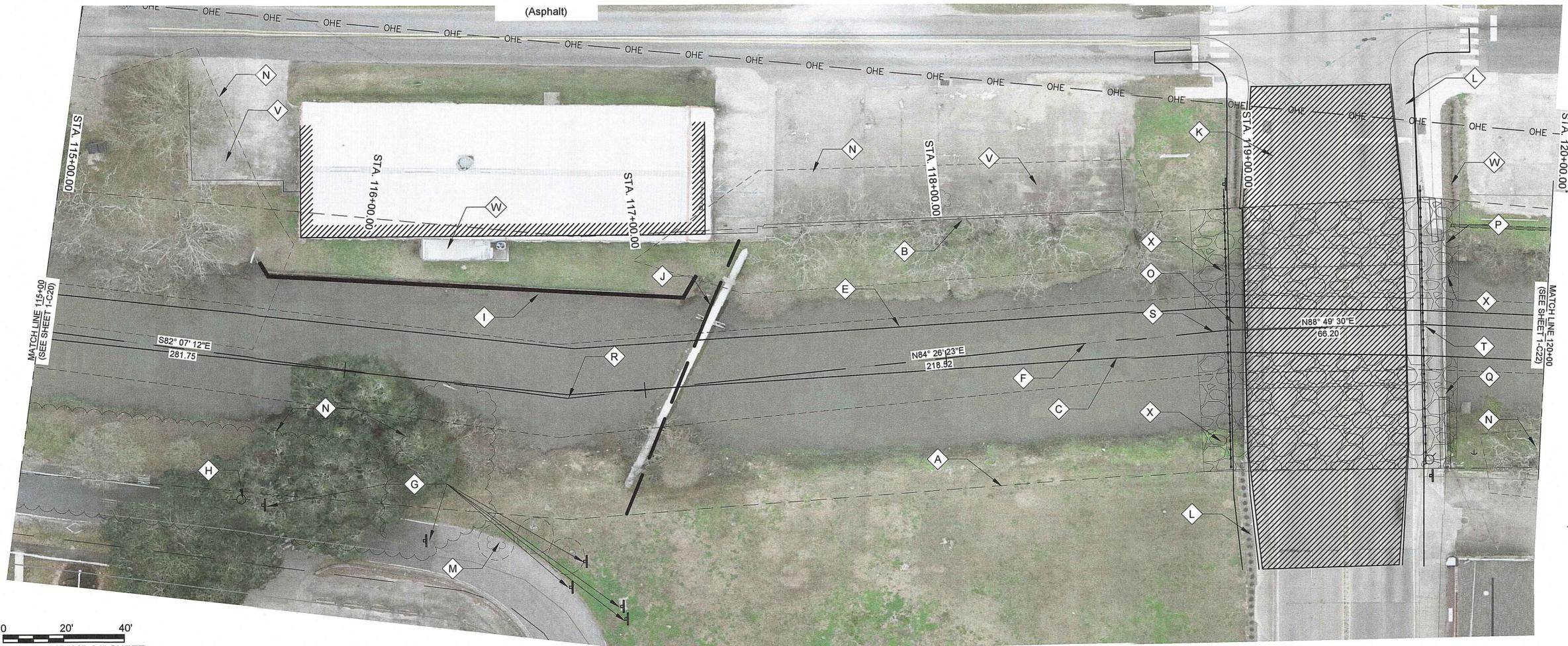
GENERAL NOTES:

1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED CL.
2. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
3. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
4. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
5. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02
6. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS



SCALES:
 HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
 VERTICAL: 1" = 4'-0" (22"x34" SHEET)

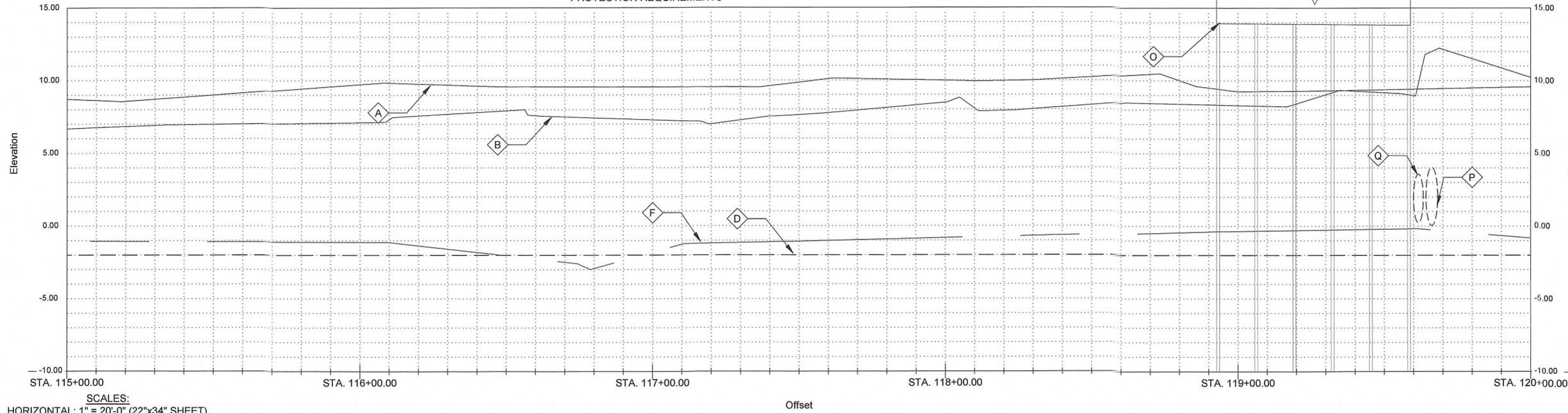
SUBMITTED BY: PROJECT MANAGER LICENSE NO.	SUBMITTED BY: PRINCIPAL LICENSE NO.
H. Davis Cole & Associates, LLC Consulting Engineers NEW ORLEANS, LA	
DESIGNED BY: DAM/ARF	DRAWN BY: ARF/RMM
DATE: APRIL, 2019	CHECKED BY: DAM
DETAILED BY: ARF/RMM	
HPC PROJECT NO. 2017-14	
NEW RIVER CHANNEL IMPROVEMENTS LOUISIANA GONZALES EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1 42077 CHURCHPOINT ROAD, GONZALES, LA 70737 PLAN & PROFILE	
SHEET ID 1-C20	
SHEET SET 64 OF 82	



- NOTES BY SYMBOL:**
- ⬡ - TOP OF BANK (R.T.)
 - ⬡ - TOP OF BANK (L.T.)
 - ⬡ - BOTTOM OF CHANNEL (R.T.)
 - ⬡ - BOTTOM OF CHANNEL (L.T.)
 - ⬡ - SURVEYED ℓ OF NEW RIVER
 - ⬡ - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
 - ⬡ - LIGHT POLE
 - ⬡ - WOODEN BULKHEAD
 - ⬡ - EXISTING OVERHEAD WATERLINE CROSSING, TO REMAIN. ELEVATION UNKNOWN
 - ⬡ - CONCRETE BRIDGE DECK
 - ⬡ - CONCRETE WALKWAY
 - ⬡ - 8" CREPE MYRTLE, TO REMAIN
 - ⬡ - VEGETATION (SEE NOTE #3)
 - ⬡ - BURNSIDE ROAD BRIDGE, BRIDGE PILES, 24"x24" CONCRETE CAP WITH 12" WOOD PILES
 - ⬡ - EXISTING 48" CMP, TO REMAIN, INV. 0.05
 - ⬡ - EXISTING 40" CMP, TO REMAIN, INV. 0.23
 - ⬡ - P.I. STA. 116+74.23 (N: 632893.3526, E: 3410866.7337)
 - ⬡ - P.I. STA. 118+92.74 (N: 632914.5250, E: 3411084.2214)
 - ⬡ - P.I. STA. 119+58.95 (N: 632915.8825, E: 3411150.4113)
 - ⬡ - SEE SPECIAL PROVISIONS FOR REQUIREMENTS FOR EXCAVATION IN THIS AREA
 - ⬡ - ASPHALT
 - ⬡ - CONCRETE
 - ⬡ - RIP RAP PER SECTION 02711

GENERAL NOTES:

1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
2. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ℓ .
3. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
4. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
5. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
6. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02



- ⬡ - CONCRETE BRIDGE DECK
- ⬡ - CONCRETE WALKWAY
- ⬡ - 8" CREPE MYRTLE, TO REMAIN
- ⬡ - VEGETATION (SEE NOTE #3)
- ⬡ - BURNSIDE ROAD BRIDGE, BRIDGE PILES, 24"x24" CONCRETE CAP WITH 12" WOOD PILES
- ⬡ - EXISTING 48" CMP, TO REMAIN, INV. 0.05
- ⬡ - EXISTING 40" CMP, TO REMAIN, INV. 0.23
- ⬡ - P.I. STA. 116+74.23 (N: 632893.3526, E: 3410866.7337)
- ⬡ - P.I. STA. 118+92.74 (N: 632914.5250, E: 3411084.2214)
- ⬡ - P.I. STA. 119+58.95 (N: 632915.8825, E: 3411150.4113)
- ⬡ - SEE SPECIAL PROVISIONS FOR REQUIREMENTS FOR EXCAVATION IN THIS AREA
- ⬡ - ASPHALT
- ⬡ - CONCRETE
- ⬡ - RIP RAP PER SECTION 02711

SCALES:
 HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
 VERTICAL: 1" = 4'-0" (22"x34" SHEET)

04/26/2019

SUBMITTED BY: PROJECT MANAGER LICENSE NO.	SUBMITTED BY: PRINCIPAL LICENSE NO.
H. Davis Cole & Associates, LLC Consulting Engineers NEW ORLEANS, LA	
DESIGNED BY: DAM/ARF	DRAWN BY: ARF/RMM
DATE: APRIL, 2019	CHECKED BY: DAM
DETAILED BY: ARF/RMM	
HDC PROJECT NO. 2017-14	
NEW RIVER CHANNEL IMPROVEMENTS LOUISIANA CONZALES EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1 42077 CHURCHPOINT ROAD, GONZALES, LA 70737 PLAN & PROFILE	
SHEET ID 1-C21	
SHEET SET 65 OF 82	



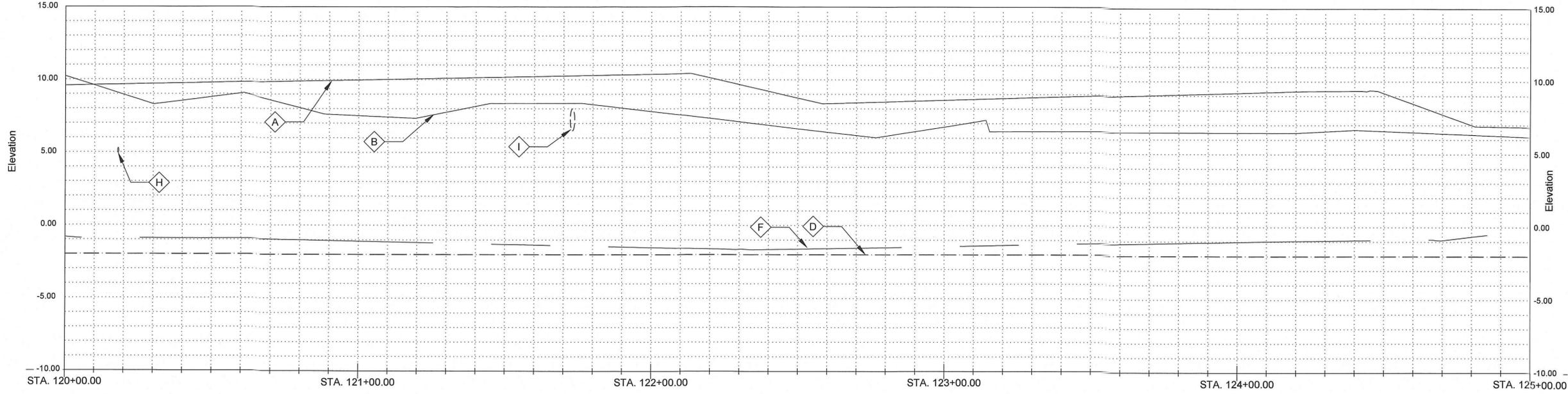
0 20' 40'
SCALE: 1"=20'-0" (22"x34" SHEET)

GENERAL NOTES:

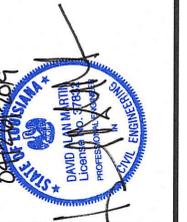
1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
2. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ℓ .
3. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
4. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
5. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

NOTES BY SYMBOL:

- \diamond A - TOP OF BANK (R.T.)
- \diamond B - TOP OF BANK (L.T.)
- \diamond C - BOTTOM OF CHANNEL (R.T.)
- \diamond D - BOTTOM OF CHANNEL (EL. -2.0', ℓ OF NEW RIVER)
- \diamond E - BOTTOM OF CHANNEL (L.T.)
- \diamond F - SURVEYED ℓ OF NEW RIVER
- \diamond G - CONTROL POINT (BY SURVEYOR), SEE SURVEY FOR GEOMETRY
- \diamond H - EXISTING 4" RCP, TO REMAIN, INV. 4.94
- \diamond I - EXISTING 18" PVC, TO REMAIN, INV.6.50
- \diamond J - 4' CHAIN LINK FENCE
- \diamond K - RETAINING WALL
- \diamond L - WOODEN BULKHEAD
- \diamond M - 20" TREE, TO REMAIN
- \diamond N - 15" TREE, TO REMAIN
- \diamond O - VEGETATION (SEE NOTE #3)
- \diamond P - CONCRETE/GRAVEL PARKING LOT
- \diamond Q - WOODEN PAVILION
- \diamond R - P.I. STA. 122+34.45 (N: 632900.0474, E: 3411425.4534)
- \diamond S - 6' CHAIN LINK FENCE
- \diamond T - RIP RAP PER SECTION 02711



SCALES:
HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
VERTICAL: 1" = 4'-0" (22"x34" SHEET)



SUBMITTED BY: PROJECT MANAGER
 LICENSE NO.:
 SUBMITTED BY: PRINCIPAL
 LICENSE NO.:



DATE	DESCRIPTION	MARK	DATE	BY	CHKD.

DESIGNED BY:	DAM/ARF	DRAWN BY:	ARF/RMM	CHECKED BY:	DAM
DATE:	APRIL, 2019	DETAILED BY:	ARF/RMM	HDC PROJECT NO.:	2017-14

LOUISIANA
 GONZALES
 NEW RIVER CHANNEL IMPROVEMENTS
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 PLAN & PROFILE



- GENERAL NOTES:**
- SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
 - ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED \bar{C} .
 - CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
 - SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
 - SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
 - PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

- NOTES BY SYMBOL:**
- \diamond A - TOP OF BANK (R.T.)
 - \diamond B - TOP OF BANK (L.T.)
 - \diamond C - BOTTOM OF CHANNEL (R.T.)
 - \diamond D - BOTTOM OF CHANNEL (EL. -2.0', \bar{C} OF NEW RIVER)
 - \diamond E - BOTTOM OF CHANNEL (L.T.)
 - \diamond F - SURVEYED \bar{C} OF NEW RIVER
 - \diamond G - GUARDRAIL
 - \diamond H - EXISTING 15" CMP, TO REMAIN, INV. 4.38
 - \diamond I - ASPHALT BRIDGE DECK
 - \diamond J - N. BRYAN AVE. BRIDGE, 12 BRIDGE PILES, 24"x24" CONCRETE CAP WITH 12" CONCRETE PILES
 - \diamond K - METAL POST
 - \diamond L - RAILROAD LIGHT POLE
 - \diamond M - RAILROADS TRACKS
 - \diamond N - KANSAS CITY SOUTHERN RAILROAD BRIDGE, 60 BRIDGE PILES, 15" CONCRETE CAP WITH 15" WOOD PILE
 - \diamond O - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
 - \diamond P - VEGETATION (SEE NOTE #3)
 - \diamond Q - P.I. STA. 125+36.85 (N: 632916.8452, E: 3411724.4972)
 - \diamond R - P.I. STA. 128+73.20 (N: 632901.2588, E: 3412060.4846)
 - \diamond S - SEE SPECIAL PROVISIONS FOR REQUIREMENTS FOR EXCAVATION IN THIS AREA
 - \diamond T - RIP RAP PER SECTION 02711



SUBMITTED BY: ANDRE R. POPE, PROJECT MANAGER
 LICENSE NO. [blank]
 SUBMITTED BY: DAVID A. MARTIN, P.E., PRINCIPAL
 LICENSE NO. 87892



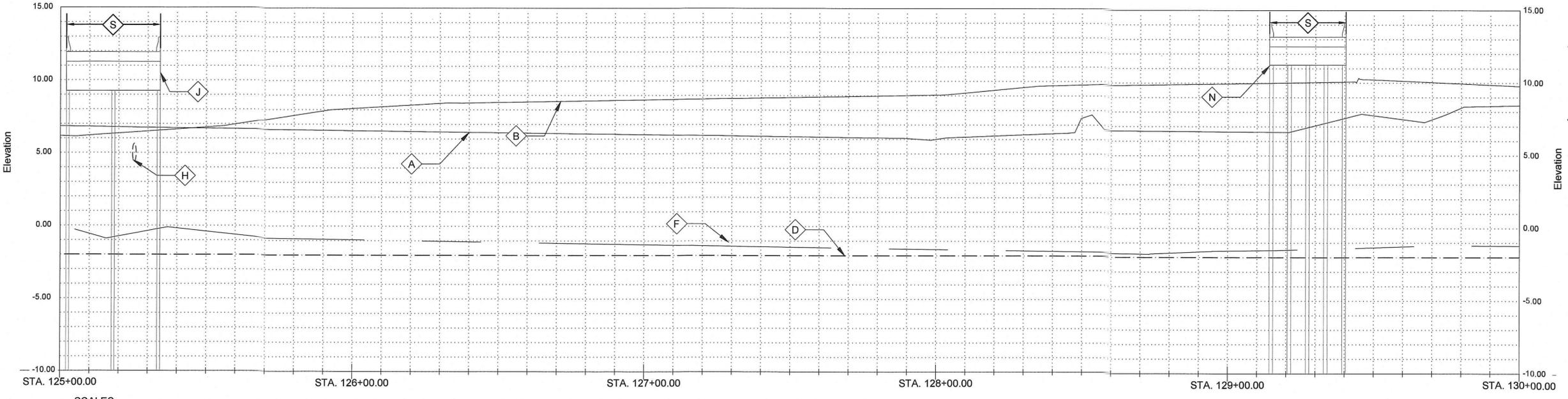
MARK	DESCRIPTION	DATE	BY	CHKD.

DESIGNED BY:	DAM/ARF	DRAWN BY:	ARF/RMM	CHECKED BY:	DAM

DATE:	APRIL, 2019	DETAILED BY:	ARF/RMM	HDC PROJECT NO.:	2017-14

NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 PLAN & PROFILE

0 20' 40'
 SCALE: 1"=20'-0" (22"x34" SHEET)



SCALES:
 HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
 VERTICAL: 1" = 4'-0" (22"x34" SHEET)



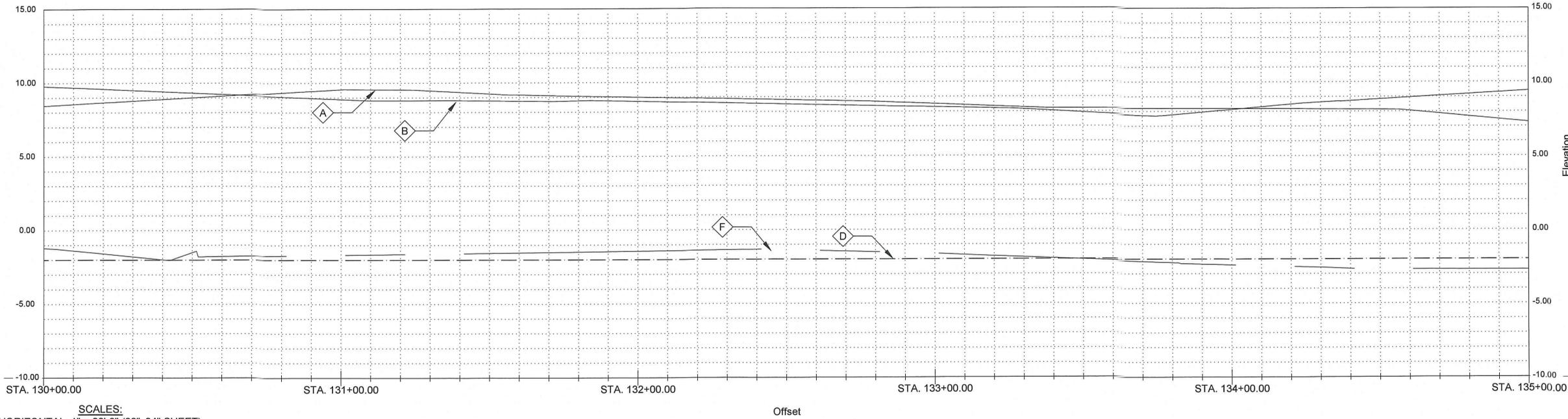
0 20' 40'
SCALE: 1"=20'-0" (22"x34" SHEET)

GENERAL NOTES:

1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
2. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED \mathcal{C} .
3. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
4. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
5. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
6. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

NOTES BY SYMBOL:

- $\diamond A$ - TOP OF BANK (R.T.)
- $\diamond B$ - TOP OF BANK (L.T.)
- $\diamond C$ - BOTTOM OF CHANNEL (R.T.)
- $\diamond D$ - BOTTOM OF CHANNEL (EL. -2.0', \mathcal{C} OF NEW RIVER)
- $\diamond E$ - BOTTOM OF CHANNEL (L.T.)
- $\diamond F$ - SURVEYED \mathcal{C} OF NEW RIVER
- $\diamond G$ - WOODEN RAILROAD BRIDGE
- $\diamond H$ - CONTROL POINT (BY SURVEYOR), SEE SURVEY FOR GEOMETRY
- $\diamond I$ - FIBER OPTIC MARKER
- $\diamond J$ - 4' CHAIN LINK FENCE
- $\diamond K$ - VEGETATION (SEE NOTE #3)
- $\diamond L$ - P.I. STA. 130+00.37 (N: 632861.5395, E: 3412181.3012)
- $\diamond M$ - P.I. STA. 130+55.59 (N: 632846.9235, E: 3412234.5477)
- $\diamond N$ - P.I. STA. 132+96.50 (N: 632767.2154, E: 3412461.8844)
- $\diamond O$ - P.I. STA. 134+31.98 (N: 632725.5720, E: 3412590.8082)
- $\diamond P$ - EXISTING CONCRETE, TO REMAIN



SCALES:
HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
VERTICAL: 1" = 4'-0" (22"x34" SHEET)



SUBMITTED BY:
DAVID A. MARTIN
PROJECT MANAGER
LICENSE NO. 63282

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL
LICENSE NO. 63282



MARK	DESCRIPTION	DATE	BY	CHKD

DESIGNED BY:	DAM/ARF	DATE:	APRIL, 2019	DRAWN BY:	ARF/RMM	CHECKED BY:	DAM

DATE:	APRIL, 2019	DETAILED BY:	ARF/RMM	HDC PROJECT NO.:	2017-14

NEW RIVER CHANNEL IMPROVEMENTS
LOUISIANA
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
PLAN & PROFILE

SHEET ID
1-C24

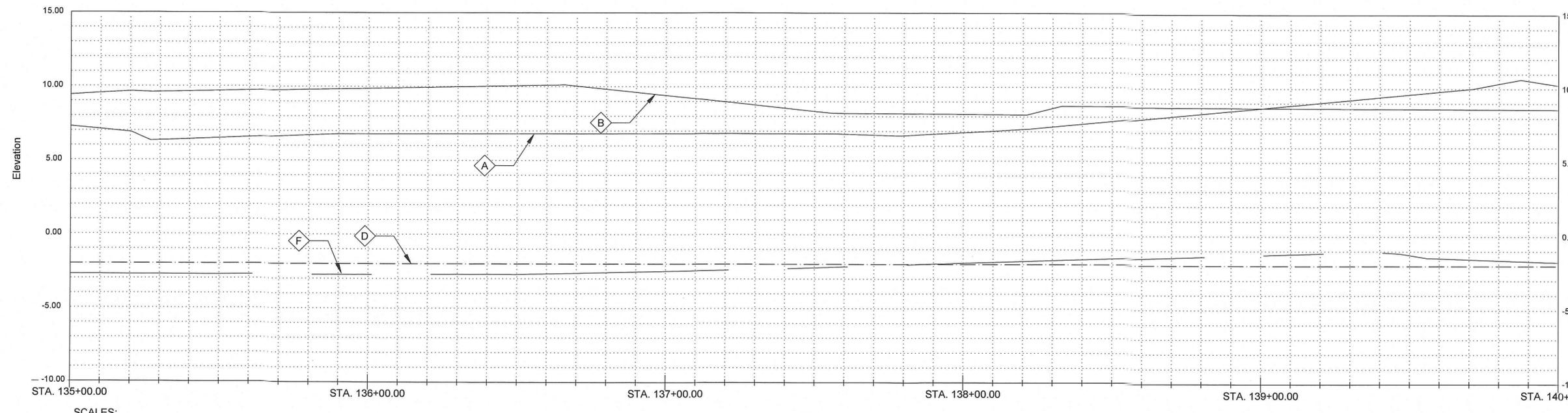
SHEET SET
68 OF **82**



0 20' 40'
SCALE: 1"=20'-0" (22"x34" SHEET)

- GENERAL NOTES:**
- SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
 - ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ℓ .
 - CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED.
 - SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
 - SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS.
 - PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02.

- NOTES BY SYMBOL:**
- \diamond A - TOP OF BANK (R.T.)
 - \diamond B - TOP OF BANK (L.T.)
 - \diamond C - BOTTOM OF CHANNEL (R.T.)
 - \diamond D - BOTTOM OF CHANNEL (EL. -2.0', ℓ OF NEW RIVER)
 - \diamond E - BOTTOM OF CHANNEL (L.T.)
 - \diamond F - SURVEYED ℓ OF NEW RIVER
 - \diamond G - 6' WOOD FENCE
 - \diamond H - 8" OAK, TO REMAIN
 - \diamond I - VEGETATION (SEE NOTE #3)
 - \diamond J - P.I. STA. 136+48.15 (N: 632568.6593, E: 3412739.5028)
 - \diamond K - P.I. STA. 139+46.60 (N: 632276.4100, E: 3412800.0197)
 - \diamond L - TELEPHONE POLE, TO REMAIN



SCALES:
HORIZONTAL: 1"= 20'-0" (22"x34" SHEET)
VERTICAL: 1"= 4'-0" (22"x34" SHEET)



SUBMITTED BY:
ANDRE FORDELL
PROJECT MANAGER
LICENSE NO. 37852

SUBMITTED BY:
DANIEL MARTIN
PRINCIPAL
LICENSE NO. 37852



MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/20/19	ARF	DAM

DESIGNED BY:	DRAWN BY:	CHECKED BY:
DAM/ARF	ARF/RMM	DAM

DATE: APRIL, 2019
DETAILED BY: ARF/RMM
HDC PROJECT NO. 2017-14

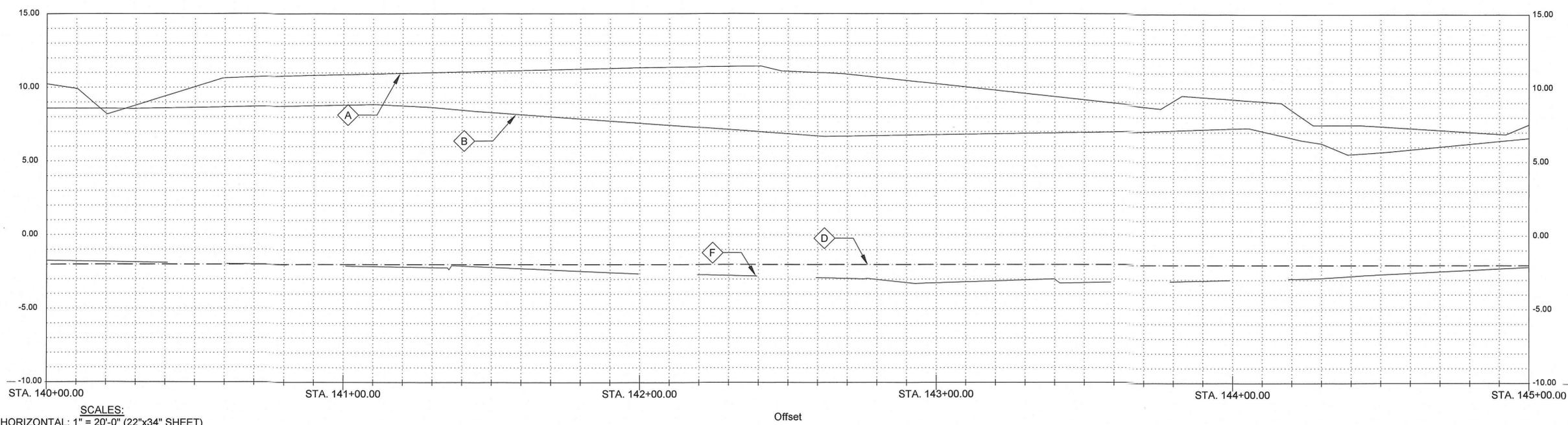
LOUISIANA
NEW RIVER CHANNEL IMPROVEMENTS
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
PLAN & PROFILE



0 20' 40'
SCALE: 1"=20'-0" (22"x34" SHEET)

- GENERAL NOTES:**
1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
 2. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ℓ .
 3. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
 4. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
 5. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
 6. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

- NOTES BY SYMBOL:**
- \diamond A - TOP OF BANK (R.T.)
 - \diamond B - TOP OF BANK (L.T.)
 - \diamond C - BOTTOM OF CHANNEL (R.T.)
 - \diamond D - BOTTOM OF CHANNEL (EL. -2.0', ℓ OF NEW RIVER)
 - \diamond E - BOTTOM OF CHANNEL (L.T.)
 - \diamond F - SURVEYED ℓ OF NEW RIVER
 - \diamond G - 24" OAK, TO REMAIN
 - \diamond H - VEGETATION (SEE NOTE #3)
 - \diamond I - FIBER OPTIC MARKER, TO REMAIN
 - \diamond J - RAILROAD SIGNAL WITH GUARDRAILS, TO REMAIN
 - \diamond K - POWER POLE WITH UNDERGROUND ELECTRIC LINE
 - \diamond L - CONTROL POINT (BY SURVEYOR), SEE SURVEY FOR GEOMETRY
 - \diamond M - P.I. STA. 141+36.36 (N: 632088.0961, E:3412823.4088)
 - \diamond N - P.I. STA. 143+39.90 (N: 631926.3281, E: 3412946.9347)
 - \diamond O - TELEPHONE POLE, TO REMAIN



SCALES:
HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
VERTICAL: 1" = 4'-0" (22"x34" SHEET)



SUBMITTED BY:
ANDRE H. FORB, P.E.
PROJECT MANAGER

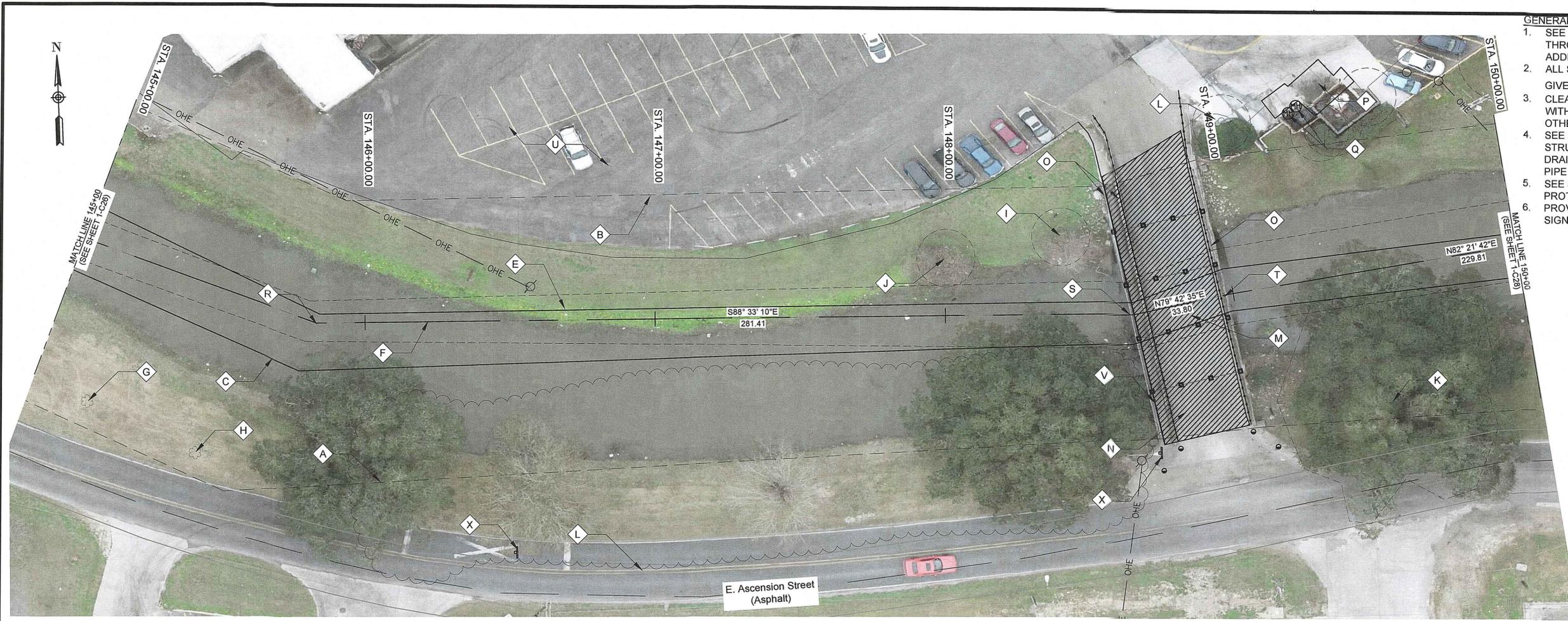
SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL



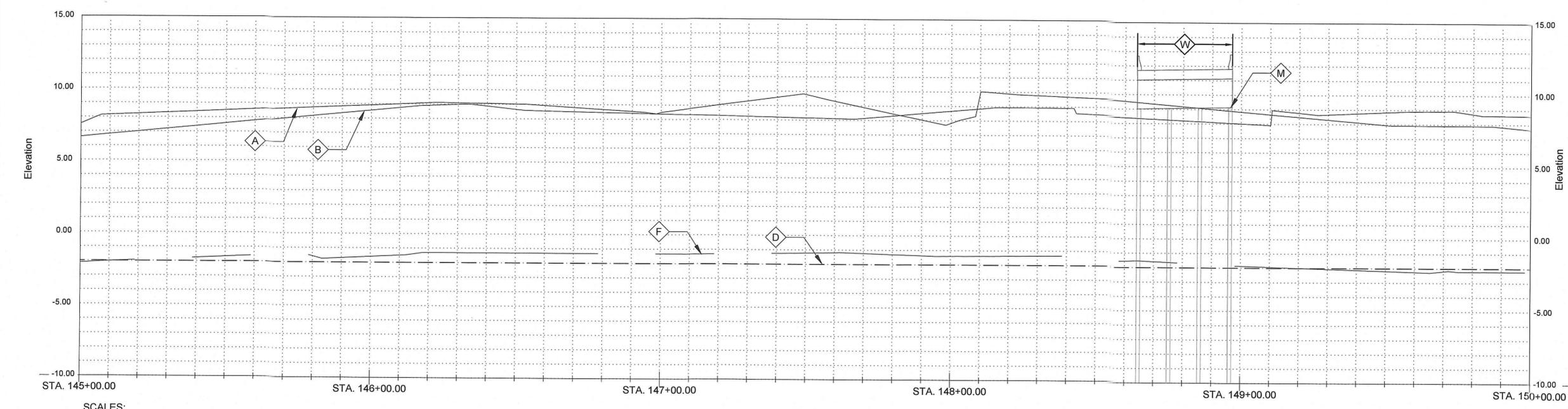
REVISION RECORD				
NO.	DESCRIPTION	DATE	BY	CHKD.

DESIGNED BY:	DAM/ARF	CHECKED BY:	DAM
DRAWN BY:	ARF/RMM	DATE:	APRIL, 2019
RELEASED FOR BIDS & CONSTRUCTION:	04/2019	DETAILED BY:	ARF/RMM
MARK		HDC PROJECT NO.:	2017-14

NEW RIVER CHANNEL IMPROVEMENTS
LOUISIANA
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
PLAN & PROFILE



0 20' 40'
SCALE: 1"=20'-0" (22"x34" SHEET)

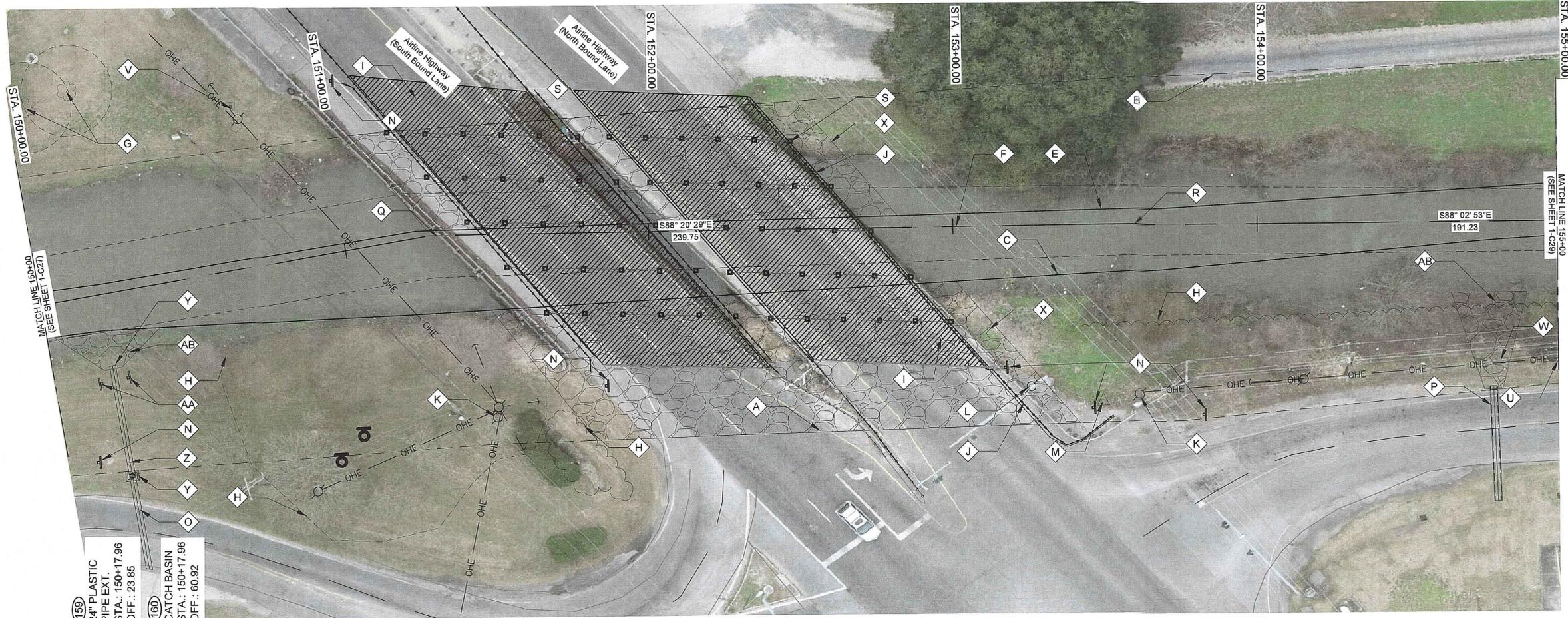


SCALES:
HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
VERTICAL: 1" = 4'-0" (22"x34" SHEET)

- GENERAL NOTES:**
1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ℓ .
 2. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
 3. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
 4. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
 5. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

- NOTES BY SYMBOL:**
- ◇ A - TOP OF BANK (R.T.)
 - ◇ B - TOP OF BANK (L.T.)
 - ◇ C - BOTTOM OF CHANNEL (R.T.)
 - ◇ D - BOTTOM OF CHANNEL (EL. -2.0', ℓ OF NEW RIVER)
 - ◇ E - BOTTOM OF CHANNEL (L.T.)
 - ◇ F - SURVEYED ℓ OF NEW RIVER
 - ◇ G - 30" CREPE MYRTLE, TO REMAIN
 - ◇ H - 18" CREPE MYRTLE, TO REMAIN
 - ◇ I - 12" CYPRESS, TO REMAIN
 - ◇ J - 24" CYPRESS, TO REMAIN
 - ◇ K - 72" LIVE OAK, TO REMAIN
 - ◇ L - VEGETATION (SEE NOTE #3)
 - ◇ M - PRIVATE ACCESS BRIDGE, 16 BRIDGE PILES, 24"x24" CONCRETE CAP WITH PILES
 - ◇ N - CONCRETE BRIDGE DECK
 - ◇ O - GUARDRAIL
 - ◇ P - BRICK ENCLOSURE FOR DUMPSTER
 - ◇ Q - GREASE TRAP MAN HOLES
 - ◇ R - P.I. STA. 145+83.25 (N: 631834.1155, E: 3413172.1402)
 - ◇ S - P.I. STA. 148+64.67 (N: 631827.0080, E: 3413453.4649)
 - ◇ T - P.I. STA. 148+98.47 (N: 631833.0457, E: 3413486.7202)
 - ◇ U - ASPHALT PARKING LOT
 - ◇ V - CONCRETE WALKWAY
 - ◇ W - SEE SPECIAL PROVISIONS FOR REQUIREMENTS FOR EXCAVATION IN THIS AREA
 - ◇ X - EXISTING OBJECT MARKER, TO REMAIN

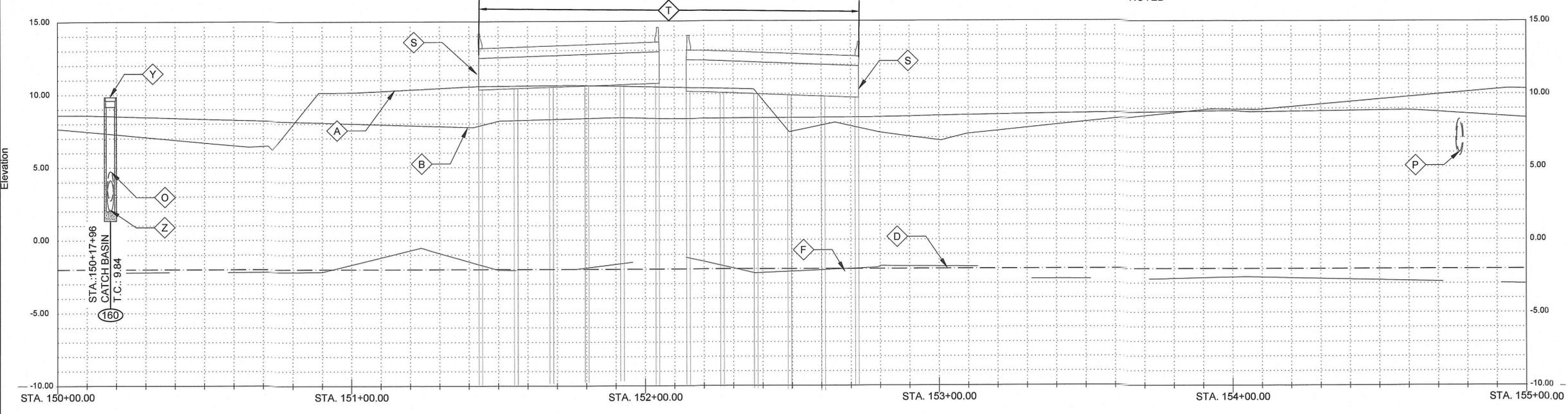
SUBMITTED BY: ANDREW R. FORD, E.I. PROJECT MANAGER	LICENSE NO. 37832	SUBMITTED BY: DAVID ALAN MARTIN, P.E. PRINCIPAL	LICENSE NO. 87323
H. Davis Cole & Associates, L.L.C. Professional Engineers NEW ORLEANS, LA			
DESIGNED BY: DAM/ARF		DRAWN BY: ARF/RMM	
DATE: APRIL, 2019		HDC PROJECT NO. 2017-14	
DETAILED BY: ARF/RMM		CHECKED BY: DAM	
NEW RIVER CHANNEL IMPROVEMENTS LOUISIANA GONZALES EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1 42077 CHURCHPOINT ROAD, GONZALES, LA 70737 PLAN & PROFILE			
SHEET ID 1-C27			
SHEET SET 71 OF 82			



- NOTES BY SYMBOL:**
- ⬠ A - TOP OF BANK (R.T.)
 - ⬠ B - TOP OF BANK (L.T.)
 - ⬠ C - BOTTOM OF CHANNEL (R.T.)
 - ⬠ D - BOTTOM OF CHANNEL (L.T.) (EL. -2.0', CL OF NEW RIVER)
 - ⬠ E - BOTTOM OF CHANNEL (L.T.)
 - ⬠ F - SURVEYED CL OF NEW RIVER
 - ⬠ G - 18" CYPRESS, TO REMAIN
 - ⬠ H - VEGETATION (SEE NOTE #3)
 - ⬠ I - CONCRETE BRIDGE DECK
 - ⬠ J - GUARDRAIL
 - ⬠ K - POWER POLE WITH UNDERGROUND ELECTRIC LINE
 - ⬠ L - TRAFFIC LIGHT
 - ⬠ M - CONTROL POINT (BY SURVEYOR) SEE SURVEY FOR GEOMETRY
 - ⬠ N - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
 - ⬠ O - EXISTING 24" CMP, TO REMAIN, INV. 2.74
 - ⬠ P - EXISTING 24" RCP, TO REMAIN, INV. 5.76
 - ⬠ Q - P.I. STA. 151+28.27 (N: 631863.5914, E: 3413714.4871)
 - ⬠ R - P.I. STA. 153+68.03 (N: 631856.6514, E: 3413954.1408)
 - ⬠ S - US 61 BRIDGE, 30 BRIDGE PILES, 26"x30" CONCRETE CAP WITH 15" CONCRETE PILE
 - ⬠ T - SEE SPECIAL PROVISIONS FOR REQUIREMENTS FOR EXCAVATION IN THIS AREA
 - ⬠ U - 12"x24" TRAFFIC BOX
 - ⬠ V - BRASS DISK, SEE SURVEY FOR GEOMETRY
 - ⬠ W - CONCRETE HEADWALL
 - ⬠ X - RIP RAP PER SECTION 02711
 - ⬠ Y - CATCH BASIN
 - ⬠ Z - (163)
 - ⬠ AA - OBJECT MARKER PER DETAIL 100 C-1
 - ⬠ AB - OUTFALL PROTECTION PER SHEET BM-02

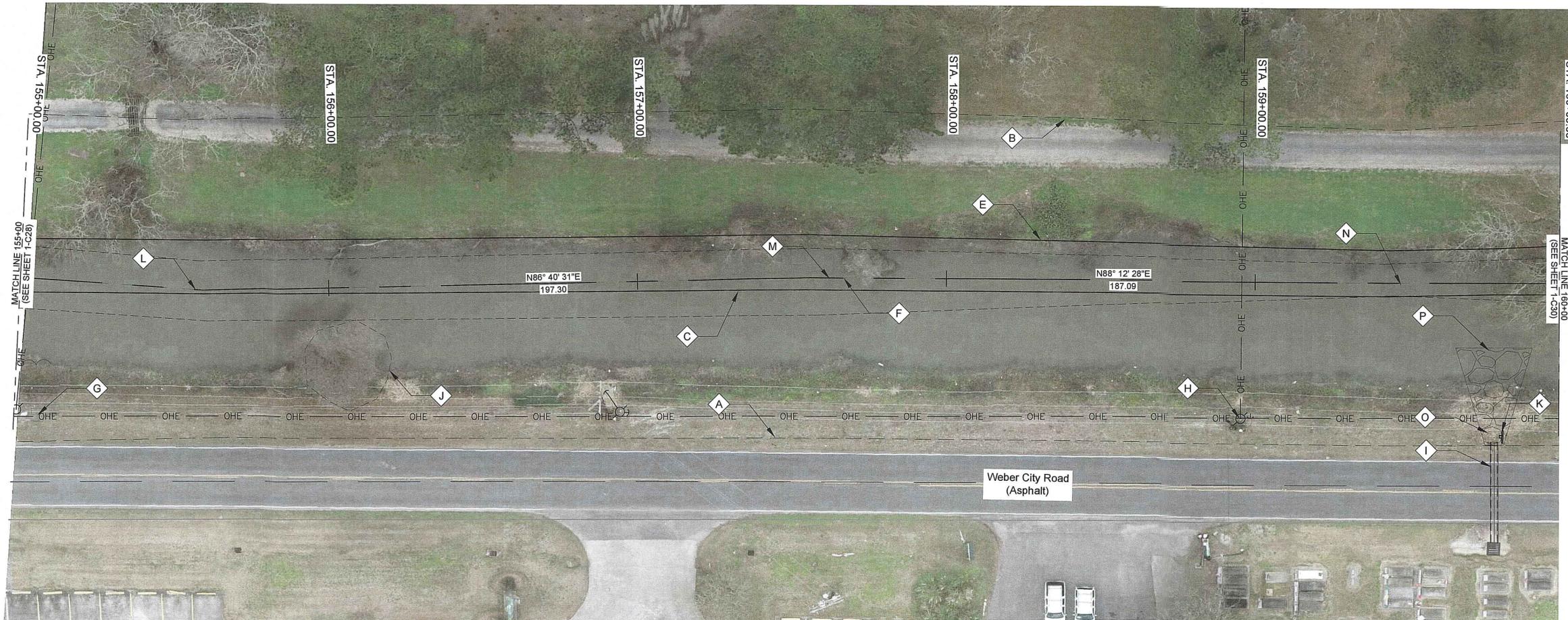
0 20' 40'
SCALE: 1"=20'-0" (22"x23" SHEET)

- GENERAL NOTES:**
1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED CL.
 2. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
 3. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
 4. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
 5. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

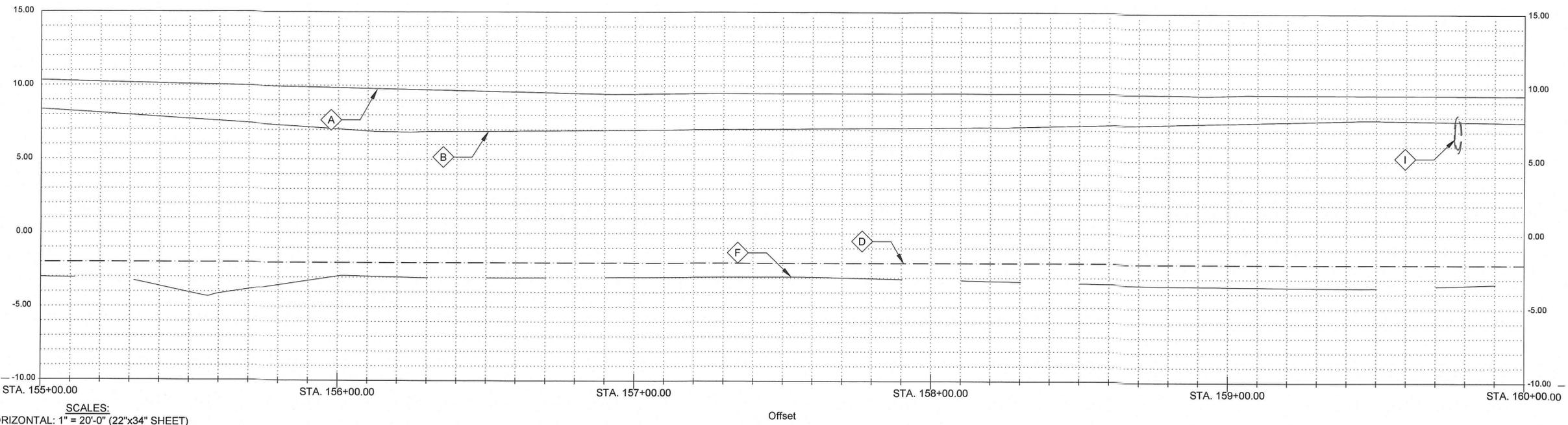


SCALES:
HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
VERTICAL: 1" = 4'-0" (22"x34" SHEET)

SUBMITTED BY: ANDRE B. FORD, E.I. PROJECT MANAGER LICENSE NO.	SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL LICENSE NO. 37832	
RELEASED FOR BIDS & CONSTRUCTION DATE: 04/20/19 DESCRIPTION:		
REVISION RECORD		
DESIGNED BY:	DAM/ARF	DAM
DATE:	APRIL, 2019	
DRAWN BY:	ARF/RMM	
DETAILED BY:	ARF/RMM	
DATE:	APRIL, 2019	
CHECKED BY:		
HDC PROJECT NO.:	2017-14	
LOUISIANA NEW RIVER CHANNEL IMPROVEMENTS EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO. 1 42077 CHURCHPOINT ROAD, GONZALES, LA 70737 PLAN & PROFILE		
SHEET ID 1-C28		
SHEET SET 72 OF 82		



0 20' 40'
SCALE: 1"=20'-0" (22"x34" SHEET)



SCALES:
HORIZONTAL: 1"= 20'-0" (22"x34" SHEET)
VERTICAL: 1"= 4'-0" (22"x34" SHEET)

GENERAL NOTES:

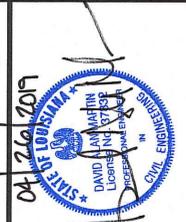
1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
2. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED \bar{C} .
3. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
4. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
5. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
6. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

NOTES BY SYMBOL:

- \diamond A - TOP OF BANK (R.T.)
- \diamond B - TOP OF BANK (L.T.)
- \diamond C - BOTTOM OF CHANNEL (R.T.)
- \diamond D - BOTTOM OF CHANNEL (EL. -2.0', \bar{C} OF NEW RIVER)
- \diamond E - BOTTOM OF CHANNEL (L.T.)
- \diamond F - SURVEYED \bar{C} OF NEW RIVER
- \diamond G - 12"x24" COMMUNICATION BOX
- \diamond H - POWER POLE WITH UNDERGROUND ELECTRIC LINE
- \diamond I - EXISTING 24" RCP, TO REMAIN, INV. 5.66
- \diamond J - VEGETATION (SEE NOTE #3)
- \diamond K - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALL FOLLOWING CHANNEL SHAPING
- \diamond L - P.I. STA. 155+59.25 (N: 631850.1375, E: 3414145.2570)
- \diamond M - P.I. STA. 157+56.55 (N: 631861.5799, E: 3414342.2236)
- \diamond N - P.I. STA. 159+43.64 (N: 631867.4308, E: 3414529.2176)
- \diamond O - CONCRETE HEADWALL
- \diamond P - OUTFALL PROTECTION PER SHEET BM-02

SUBMITTED BY: PROJECT MANAGER	SUBMITTED BY: PRINCIPAL
LICENSE NO. _____	STATE LICENSE NO. _____
H. Davis Cole & Associates, LLC Consulting Engineers NEW ORLEANS, LA	
DESIGNED BY: DAM/ARF	DRAWN BY: ARF/RMM
DATE: APRIL, 2019	CHECKED BY: DAM
DETAILED BY: ARF/RMM	HPC PROJECT NO. 2017-14
NEW RIVER CHANNEL IMPROVEMENTS LOUISIANA GONZALES EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1 42077 CHURCHPOINT ROAD, GONZALES, LA 70737 PLAN & PROFILE	
SHEET ID 1-C29	
SHEET SET 73 OF 82	

- GENERAL NOTES:**
- SEE CROSS SECTIONS, SHEETS C31 THROUGH C32 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
 - ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ℓ .
 - CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
 - SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
 - SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
 - PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02



SUBMITTED BY: DAVID J. MARTIN, P.E.
 LICENSE NO. 37829
 PROJECT MANAGER

SUBMITTED BY: DAVID J. MARTIN, P.E.
 LICENSE NO. 37829
 PRINCIPAL



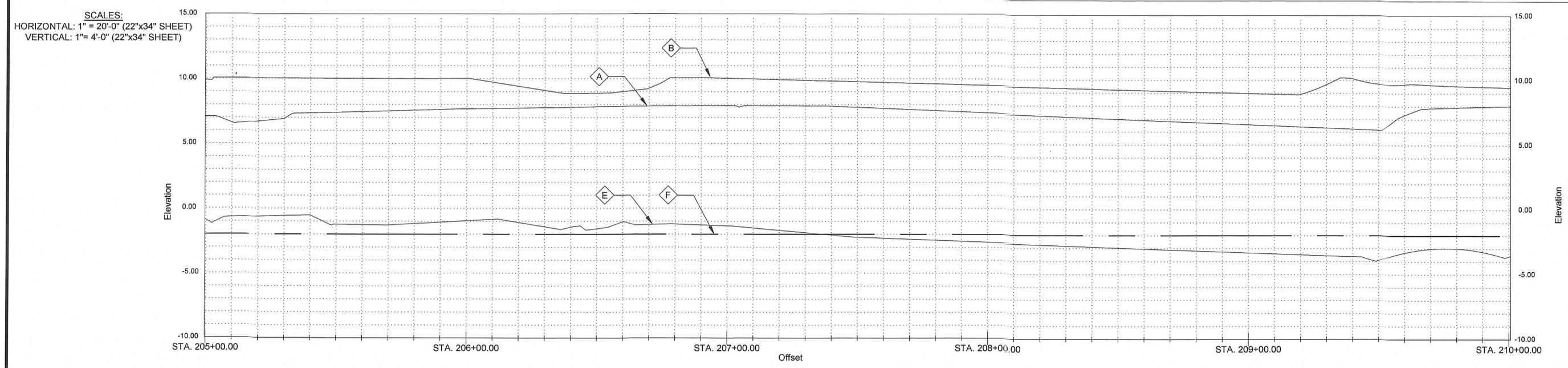
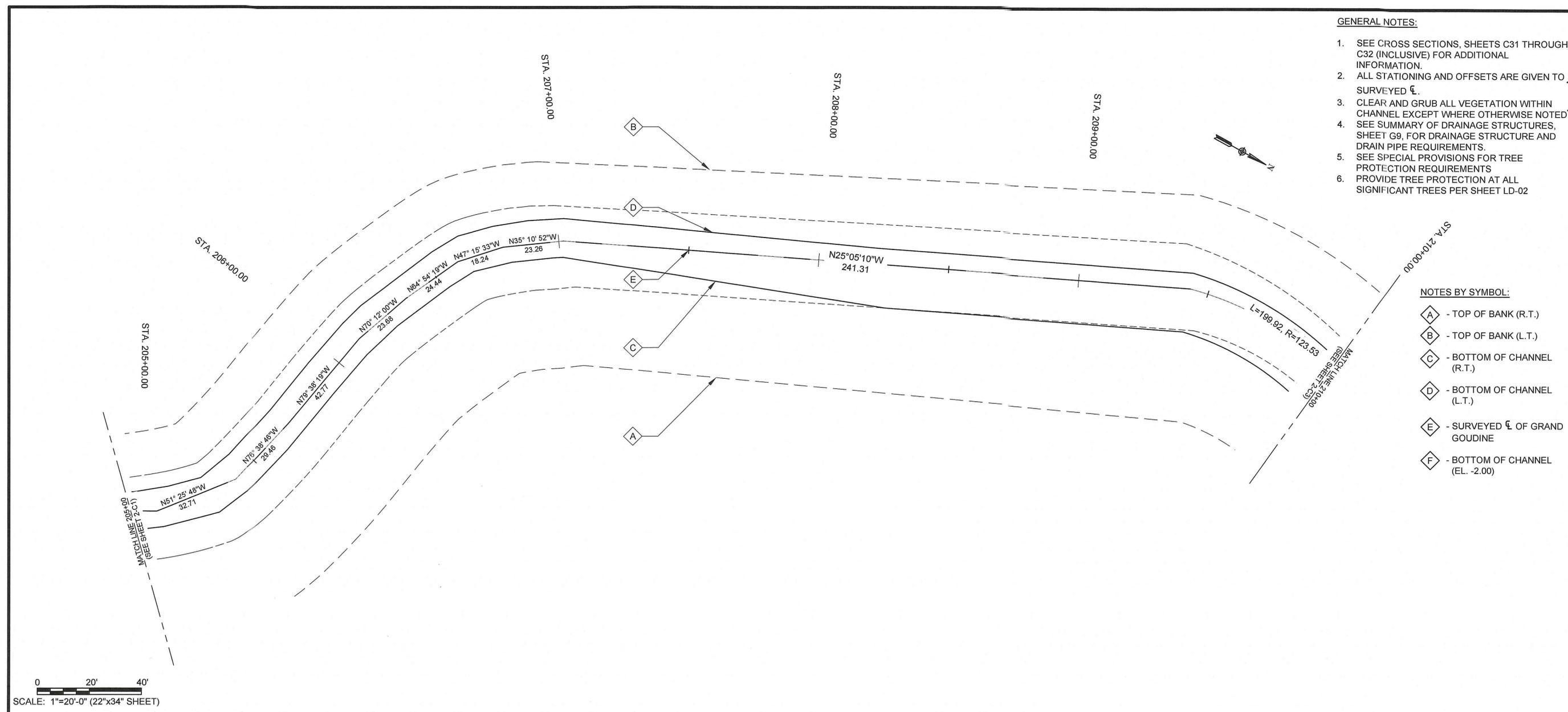
MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

DATE	DESIGNED BY	DRAWN BY	CHECKED BY
APRIL, 2019	DAM/ARF	ARF/RMM	DAM

LOUISIANA
 NEW RIVER CHANNEL IMPROVEMENTS
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 PLAN & PROFILE (GRAND GOUDINE)

SHEET ID
2-C2
 SHEET SET
 76 OF 82

- NOTES BY SYMBOL:**
- \diamond A - TOP OF BANK (R.T.)
 - \diamond B - TOP OF BANK (L.T.)
 - \diamond C - BOTTOM OF CHANNEL (R.T.)
 - \diamond D - BOTTOM OF CHANNEL (L.T.)
 - \diamond E - SURVEYED ℓ OF GRAND GOUDINE
 - \diamond F - BOTTOM OF CHANNEL (EL. -2.00)



SCALE: 1"=20'-0" (22"x34" SHEET)

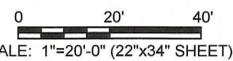
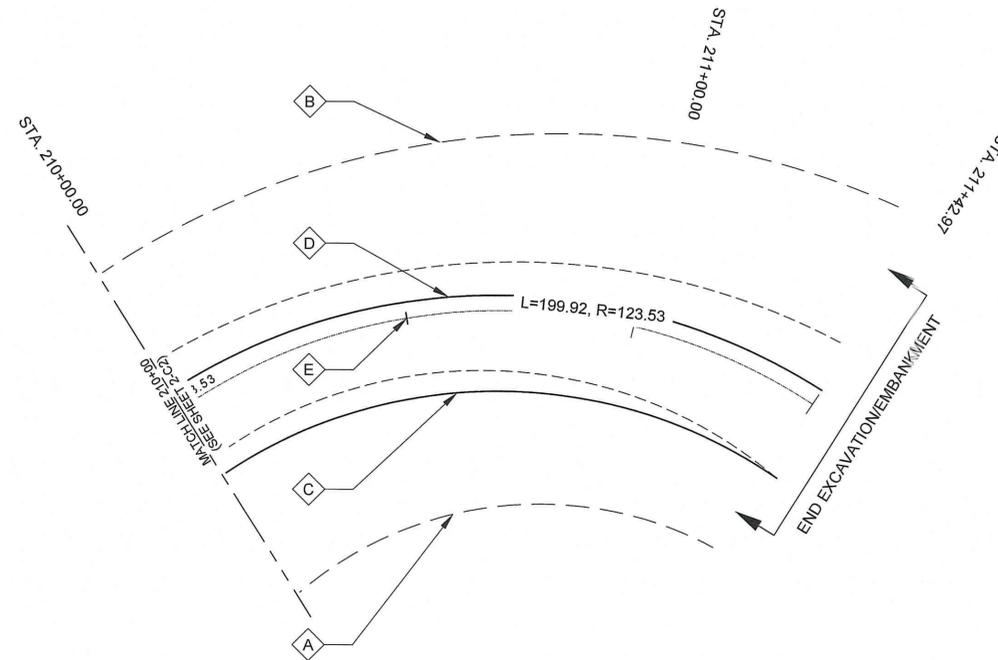
SCALES:
 HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
 VERTICAL: 1" = 4'-0" (22"x34" SHEET)

GENERAL NOTES:

1. SEE CROSS SECTIONS, SHEETS C31 THROUGH C32 (INCLUSIVE) FOR ADDITIONAL INFORMATION. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ℓ .
2. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
3. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.
4. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
5. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

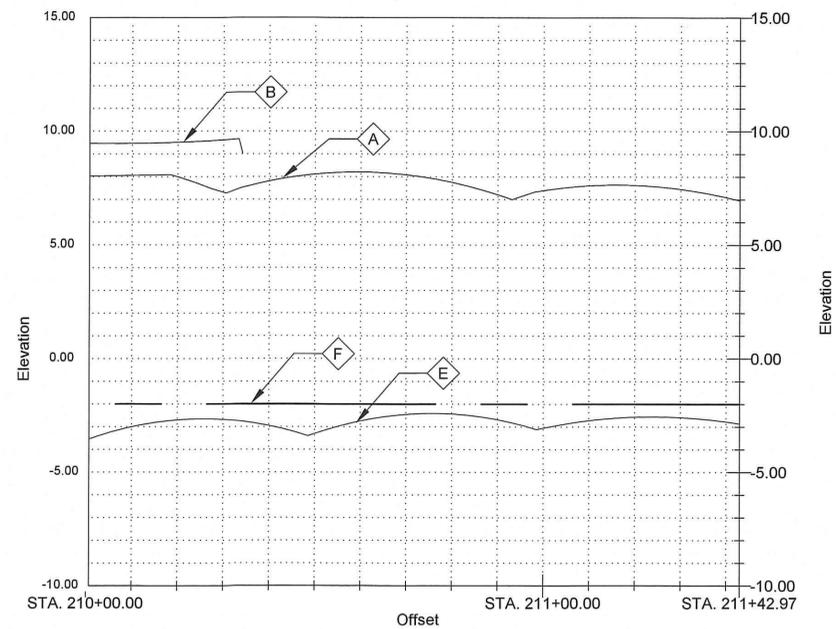
NOTES BY SYMBOL:

- \diamond A - TOP OF BANK (R.T.)
- \diamond B - TOP OF BANK (L.T.)
- \diamond C - BOTTOM OF CHANNEL (R.T.)
- \diamond D - BOTTOM OF CHANNEL (L.T.)
- \diamond E - SURVEYED ℓ OF GRAND GOUDINE
- \diamond F - BOTTOM OF CHANNEL (EL. -2.00)



SCALE: 1"=20'-0" (22"x34" SHEET)

SCALES:
 HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
 VERTICAL: 1" = 4'-0" (22"x34" SHEET)



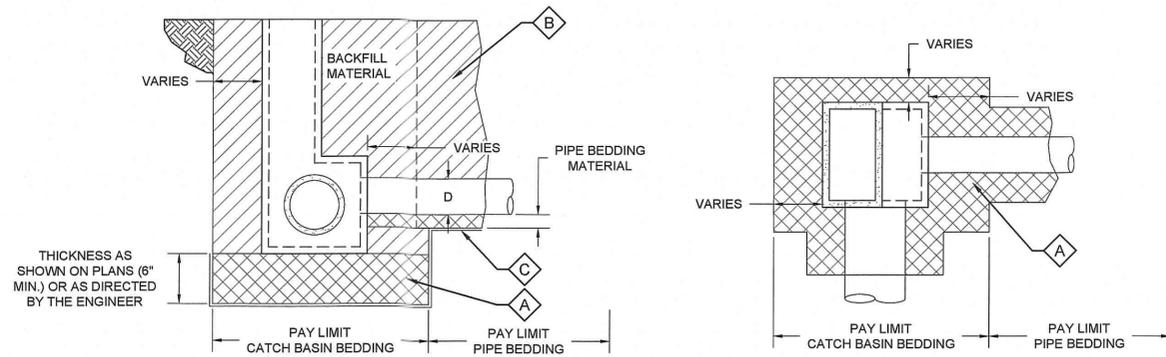
SUBMITTED BY: ANDREW FORD, LEI PROJECT MANAGER
 LICENSE NO. 37839
 SUBMITTED BY: JUSTIN A. MARTIN, P.E. PRINCIPAL
 LICENSE NO. 37839



MARK	DESCRIPTION	DATE	BY	CHKD.
*	RELEASED FOR BIDS & CONSTRUCTION	04/20/19	ARF	DAM

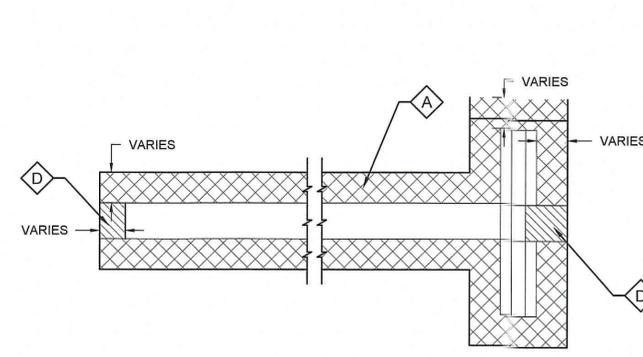
DATE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:
APRIL, 2019	DAM/ARF	ARF/RMM	DAM

NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 PLAN & PROFILE (GRAND GOUDINE)



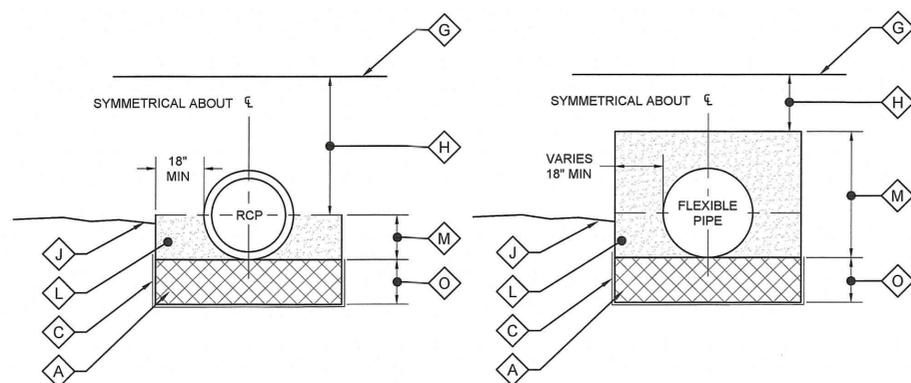
TYPICAL CATCH BASIN AND STORM DRAIN PIPE INSTALLATION

SCALE: N.T.S.



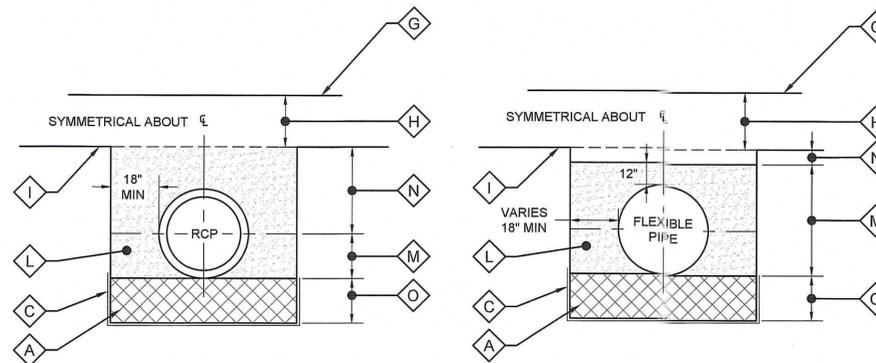
TYPICAL CROSS DRAIN INSTALLATION

SCALE: N.T.S.



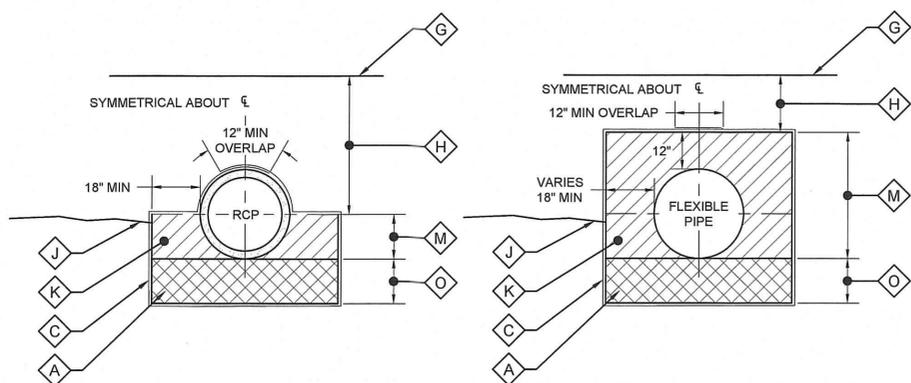
PIPE INSTALLATION FOR RIGID PAVEMENT OR OTHER AREA WHERE TOP OF PIPE IS ABOVE EXISTING GROUND

SCALE: N.T.S.



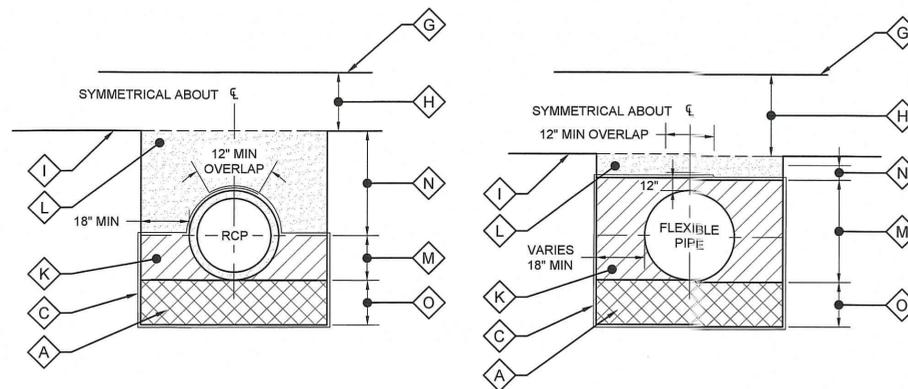
PIPE INSTALLATION FOR RIGID PAVEMENT OR OTHER AREA WHERE TOP OF PIPE IS BELOW EXISTING GROUND

SCALE: N.T.S.



PIPE INSTALLATION FOR FLEXIBLE PAVEMENT WHERE TOP OF PIPE IS ABOVE EXISTING GROUND

SCALE: N.T.S.



PIPE INSTALLATION FOR FLEXIBLE PAVEMENT WHERE TOP OF PIPE IS BELOW EXISTING GROUND

SCALE: N.T.S.

GENERAL NOTES:

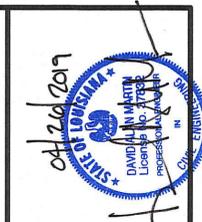
- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND MATERIAL DEFINITIONS.
- FLEXIBLE PIPE CONSISTS OF ALL PLASTIC AND CORRUGATED PLASTIC AND CORRUGATED METAL PIPE.

NOTES BY SYMBOL:

- ◊ A - BEDDING MATERIAL
- ◊ B - BACKFILL MATERIAL
- ◊ C - GEOTEXTILE FABRIC, AS REQUIRED
- ◊ D - PLASTIC SOIL BLANKET (TO BE INCLUDED AND PAID FOR AS BEDDING MATERIAL)
- ◊ E - MINIMUM 18" OVERLAP, ALL GEOTEXTILE FABRIC JOINTS
- ◊ F - TOP OF EMBANKMENT
- ◊ G - SUBGRADE
- ◊ H - EMBANKMENT AS REQUIRED
- ◊ I - NATURAL GROUND
- ◊ J - EXISTING GROUND
- ◊ K - TYPE "A" BACKFILL MATERIAL
- ◊ L - TYPE "B" BACKFILL MATERIAL
- ◊ M - INITIAL BACKFILL
- ◊ N - FINAL BACKFILL
- ◊ O - 12" THICK UNLESS OTHERWISE NOTED

BEDDING AND BACKFILL FOR DRAINAGE STRUCTURES

(FOR D.I., PVC-900, PVC-C905, AND HDPE (MIN. THICKNESS, DR17) PIPES)



SUBMITTED BY: **ELI PROJECT MANAGER**
 LICENSE NO.

SUBMITTED BY: **DAVID J. MARTIN**
 LICENSE NO. **17171**
 PROFESSIONAL ENGINEER

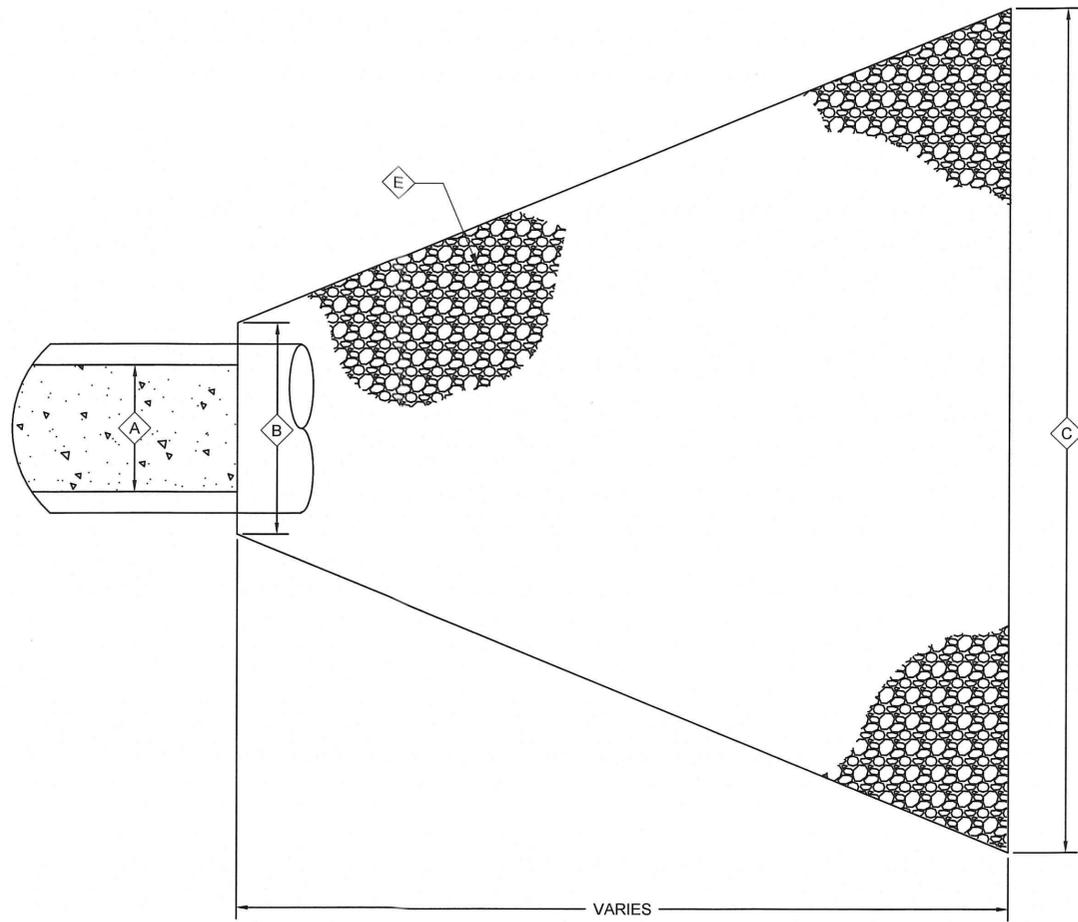
HDC
 H. Davis Cole & Associates, L.L.C.
 Consulting Engineers
 NEW ORLEANS, LA

DATE	DESCRIPTION	DATE	BY	CHKD.
04/26/2019	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	

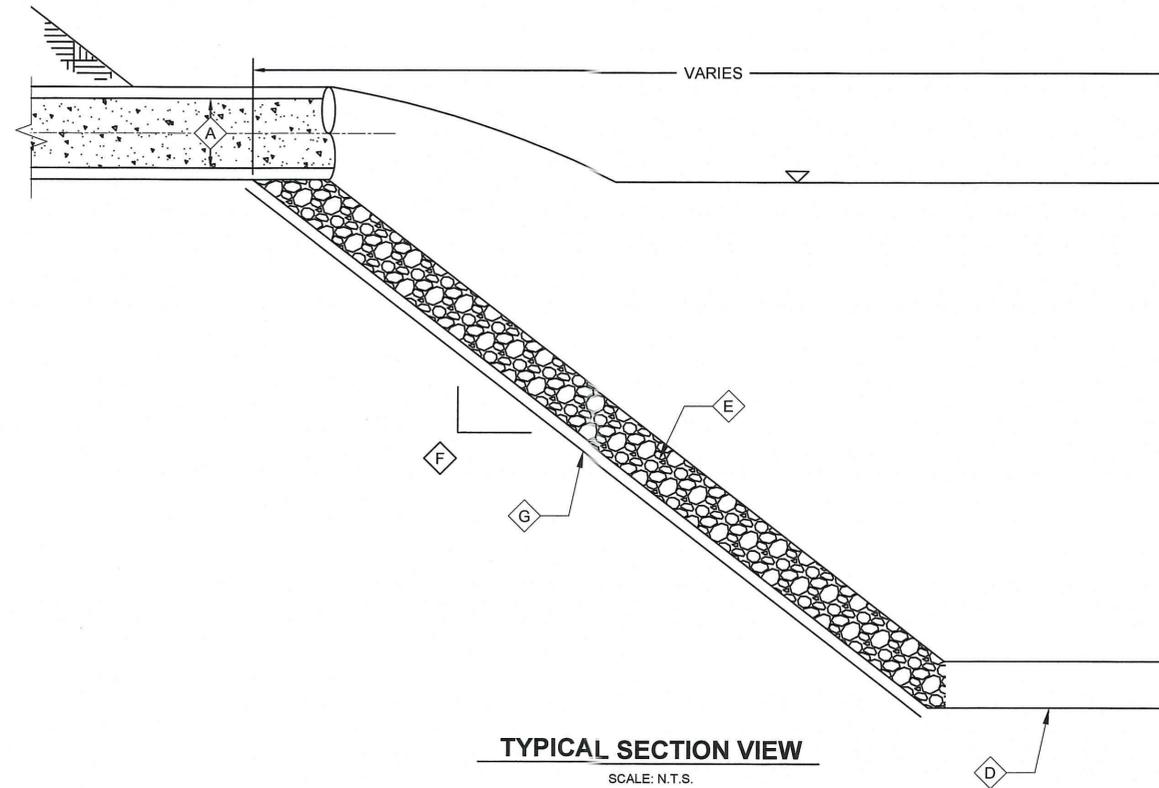
DESIGNED BY:	DRAWN BY:	CHECKED BY:
DAM/ARF	ARF/RMM	DAM

DATE: APRIL, 2019
 DETAILED BY: ARF/RMM
 HDC PROJECT NO. 2017-14

NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 BEDDING & BACKFILL FOR DRAIN PIPES



TYPICAL PLAN VIEW
SCALE: N.T.S.



TYPICAL SECTION VIEW
SCALE: N.T.S.

OUTLET PROTECTION TABLE

D ₀ (INCHES)	D ₀ (FEET)	3D ₀	RIP-RAP CLASS PER SECTION 02711	REQUIRED THICKNESS (IN)	W = D ₀ + La
12	1.00	3.00	30	6	18.00
15	1.25	3.75	30	6	22.25
18	1.50	4.50	30	6	26.50
21	1.75	5.25	30	6	30.75
24	2.00	6.00	30	6	35.00
27	2.25	6.75	30	6	39.25
30	2.50	7.50	30	6	43.50
36	3.00	9.00	30	12	53.00
42	3.50	10.50	30	12	60.50
48	4.00	12.00	30	12	70.00
54	4.50	13.50	30	12	78.50

GENERAL NOTES:

- SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND MATERIAL DEFINITIONS.
- PIPE INVERTS, SIZES, TYPES AND LENGTHS VARY.

NOTES BY SYMBOL:

- ⬡ A - OUTLET PIPE DIAMETER (D₀)
- ⬡ B - 3 D₀
- ⬡ C - WIDTH OF APRON (W = D₀ + La)
- ⬡ D - CHANNEL BOTTOM ELEVATION = -2
- ⬡ E - RIP-RAP PER OUTLET PROTECTION TABLE AND SECTION 02711
- ⬡ F - SEE PLAN AND PROFILE FOR SIDE SLOPE
- ⬡ G - GEOTEXTILE FABRIC PER SECTION 02200



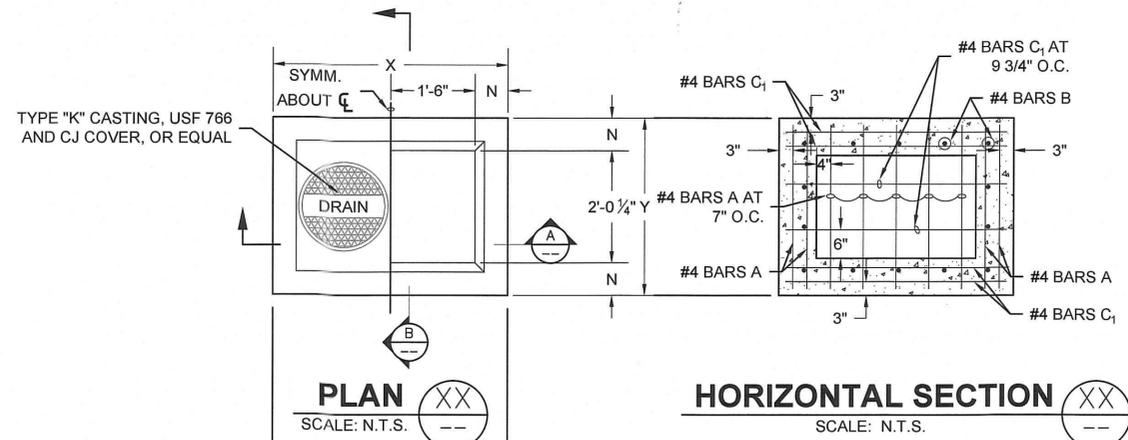
LICENSE NO. 37839
 SUBMITTED BY: DAVID ALAN MARTIN, P.E. PRINCIPAL
 SUBMITTED BY: ANDRE R. FORD, P.E. PROJECT MANAGER



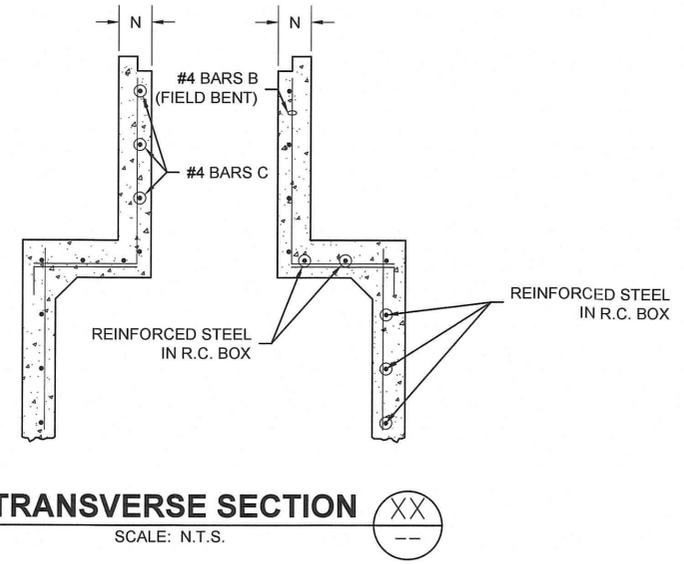
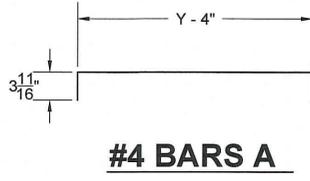
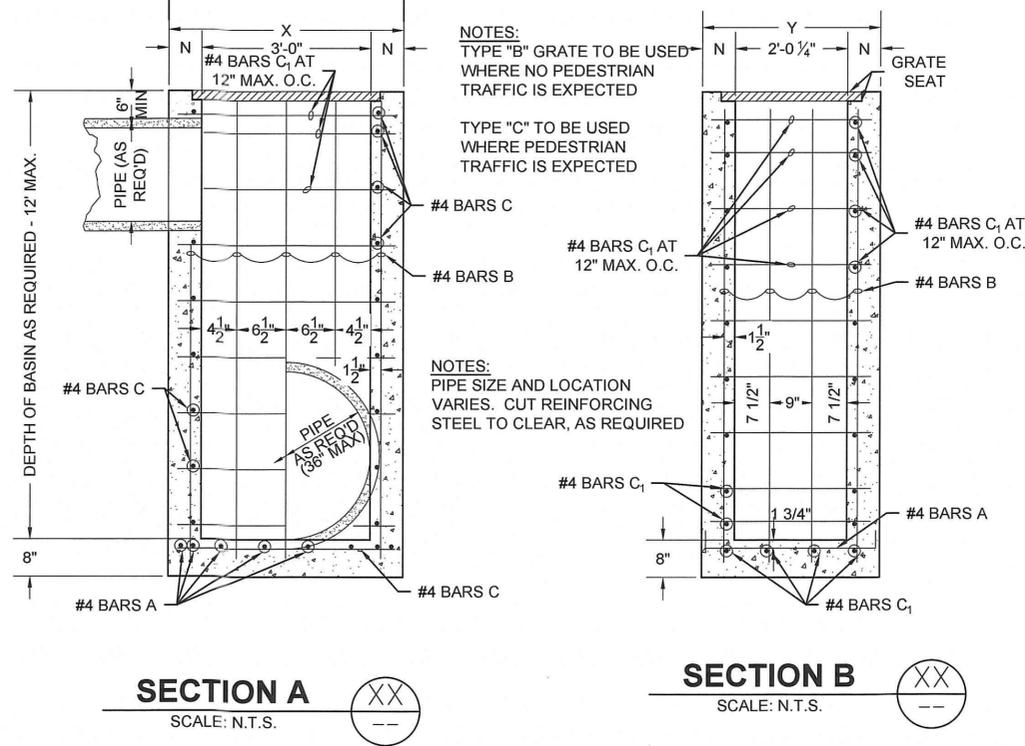
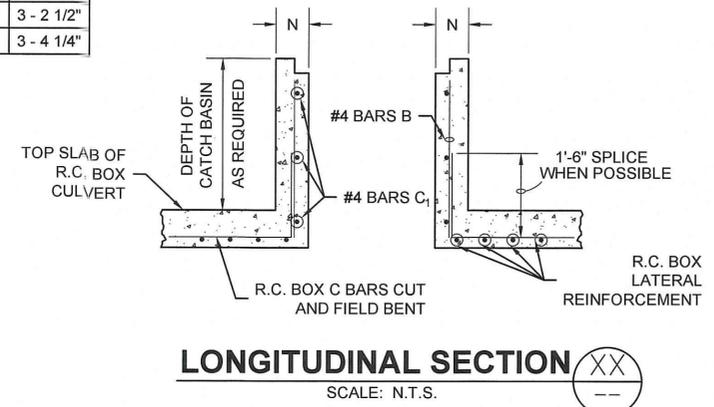
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	RELEASED FOR BIDS & CONSTRUCTION	04/20/19	ARF	DAM

DATE	DESIGNED BY	DRAWN BY	CHECKED BY
APRIL, 2019	DAM/ARF	ARF/RMM	DAM

LOUISIANA
 NEW RIVER CHANNEL IMPROVEMENTS
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 OUTFALL PROTECTION FOR PIPE EXTENSIONS

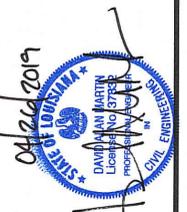


DIMENSIONS			
DEPTH OF BASIN	N	X	Y
FT	IN	FT - IN	FT - IN
0 - 8	7	4 - 2	3 - 2 1/2"
8.1 - 12	8	4 - 4	3 - 4 1/4"



TRANSVERSE SECTION (XX)
SCALE: N.T.S.

- NOTES:
- 1) DRAINAGE STRUCTURES SHALL BE PER SECTION 02701 - STORM DRAIN SYSTEMS
 - 2) DIMENSIONS RELATING TO REINFORCING STEEL ARE TO BAR CENTERS
 - 3) VERTICAL REINFORCING STEEL MAY BE SPLICED. SPLICE LENGTH IS 35 DIAMETERS
 - 4) CONCRETE SHALL BE PER SECTIONS 03805 - STRUCTURAL CONCRETE AND 03901 - PORTLAND CEMENT CONCRETE
 - 5) REINFORCING SHALL BE PER SECTION 03806 - REINFORCING



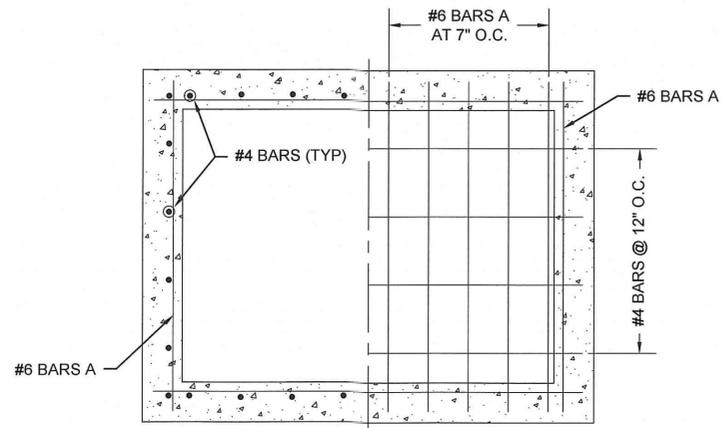
DATE: 04/26/2019
 SUBMITTED BY: DAVID M. MARTIN
 PROJECT MANAGER
 LICENSE NO. 37852
 SUBMITTED BY: DAVID M. MARTIN
 PRINCIPAL
 LICENSE NO. 37852



DATE	DESCRIPTION	MARK	DATE	BY	CHKD.
04/2019 <td>RELEASED FOR BIDS & CONSTRUCTION <td></td> <td></td> <td>ARF <td>DAM</td> </td></td>	RELEASED FOR BIDS & CONSTRUCTION <td></td> <td></td> <td>ARF <td>DAM</td> </td>			ARF <td>DAM</td>	DAM

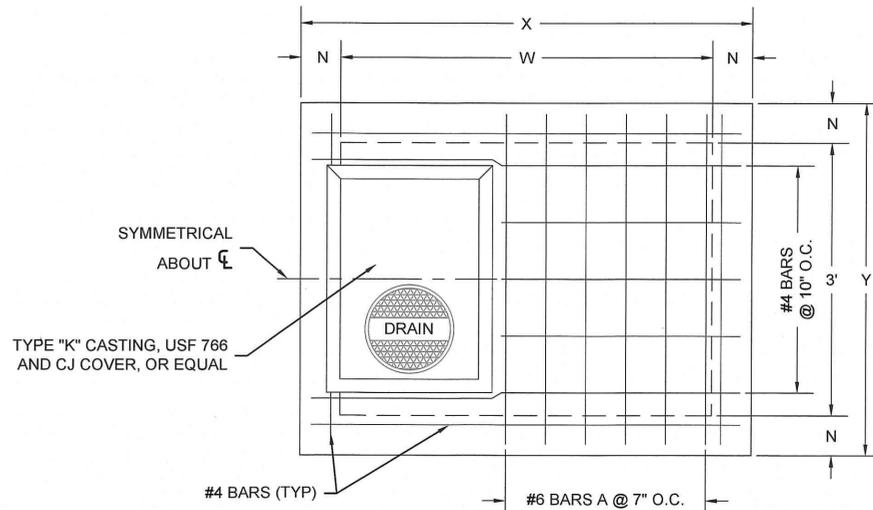
DESIGNED BY: DAM/ARF
 DRAWN BY: ARF/RMM
 CHECKED BY: DAM
 DATE: APRIL, 2019
 DETAILED BY: ARF/RMM
 HDC PROJECT NO.: 2017-14

NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 CB-01 (MODIFIED)



SECTIONAL PLAN

(SHOWING BOTTOM SLAB AND WALLS)
SCALE: N.T.S. (22"x34" SHEET)



PLAN

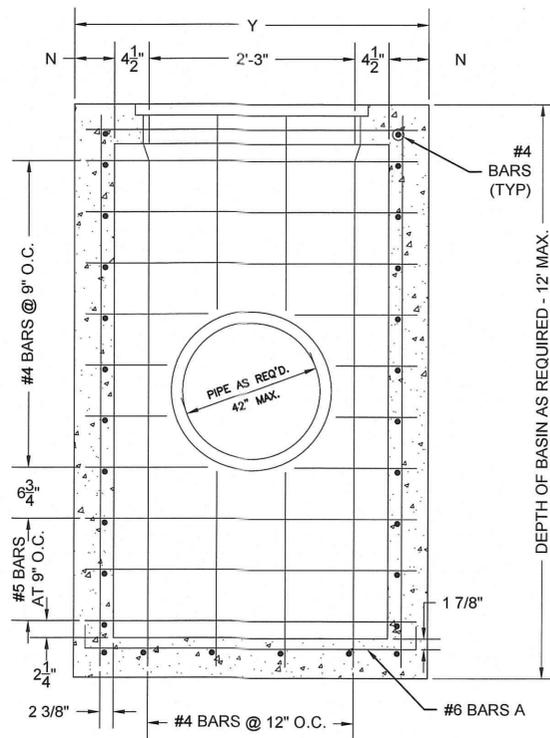
(GRATE TO BE TYPE "B" OR "C". TYPE "B" SHOWN)
SCALE: N.T.S. (22"x34" SHEET)

NOTES:
TYPE 'B' GRATE TO BE USED WHERE
NO PEDESTRIAN TRAFFIC IS EXPECTED

TYPE 'C' GRATE TO BE USED WHERE
PEDESTRIAN TRAFFIC IS EXPECTED

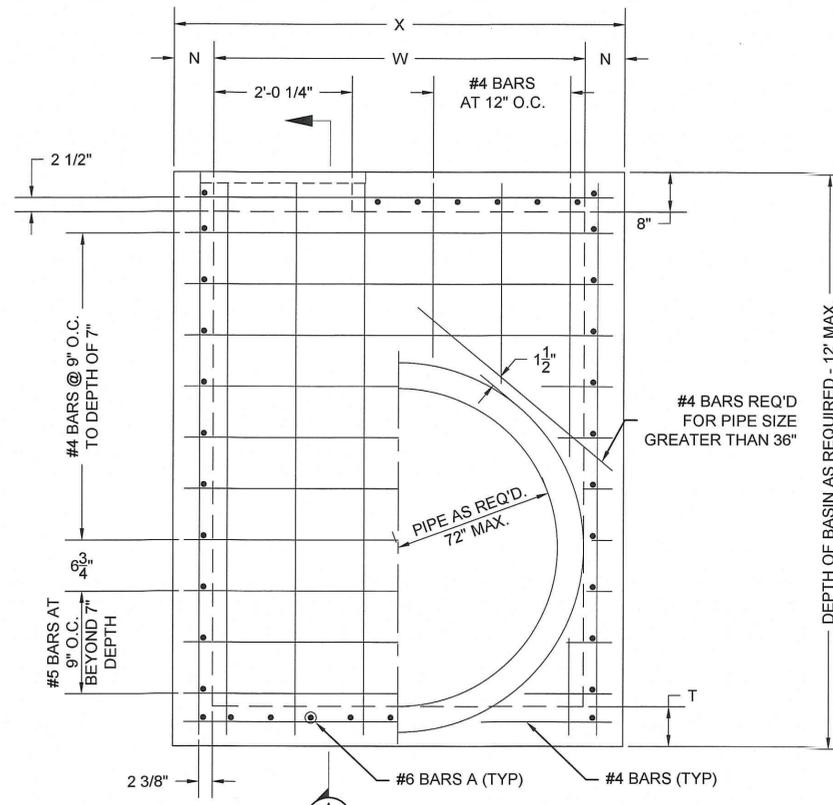
TRUNK PIPE	DIMENSIONS									
	DEPTH TO 8'					DEPTH 8' TO 12'				
	N	T	W	X	Y	N	T	W	X	Y
42	7	9	4-3	5-5	5-2	8	9	4-3	5-7	5-4
48	7	9	4-10	6-0	5-2	8	9	4-10	6-2	5-4
54	7	9	5-5	6-7	5-2	8	9	5-5	6-9	5-4
60	7	10	6-0	7-2	5-2	8	10	6-0	7-4	5-4
66	7	10	6-7	7-9	5-2	8	10	6-7	7-11	5-4
72	7	10	7-2	8-4	5-2	8	10	7-2	8-6	5-4

NOTE: X AND W DIMENSIONS MAY BE VARIED FOR SKEWED PIPE, BUT W SHALL NOT EXCEED 7'2"



SECTION

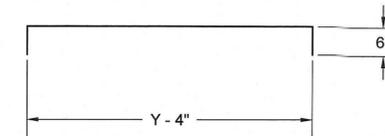
SCALE: N.T.S. (22"x34" SHEET)



ELEVATION

SCALE: N.T.S. (22"x34" SHEET)

NOTES:
PIPE SIZE AND LOCATION VARIES. CUT
REINFORCING STEEL TO CLEAR AS
REQUIRED



#6 BARS A

NOTES:

- 1) DRAINAGE STRUCTURES SHALL BE PER SECTION 02701 - STORM DRAIN SYSTEMS
- 2) DIMENSIONS RELATING TO REINFORCING STEEL ARE TO BAR CENTERS
- 3) VERTICAL REINFORCING STEEL MAY BY SPLICED. SPLICE LENGTH IS 35 DIAMETERS
- 4) CONCRETE SHALL BE PER SECTIONS 03805 - STRUCTURAL CONCRETE AND 03901 - PORTLAND CEMENT CONCRETE
- 5) REINFORCING SHALL BE PER SECTION 03806 - REINFORCING



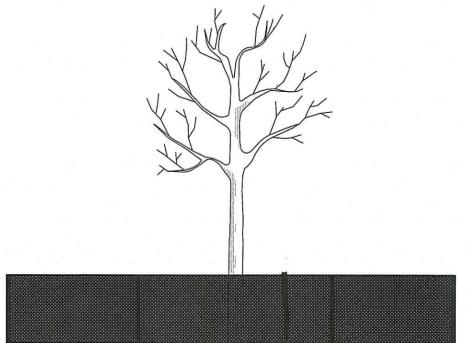
SUBMITTED BY: DAVID MARTIN, PROJECT MANAGER, LICENSE NO. 3782
 SUBMITTED BY: PAUL A. MARTIN, P.E., LICENSE NO. 3782



MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/2019	ARF	DAM

DESIGNED BY:	DATE:	APRIL, 2019	DETAILED BY:	DATE:	APRIL, 2019	PROJECT NO.:	2017-14
DAM/ARF			ARF/RMM			HDC PROJECT NO.	2017-14

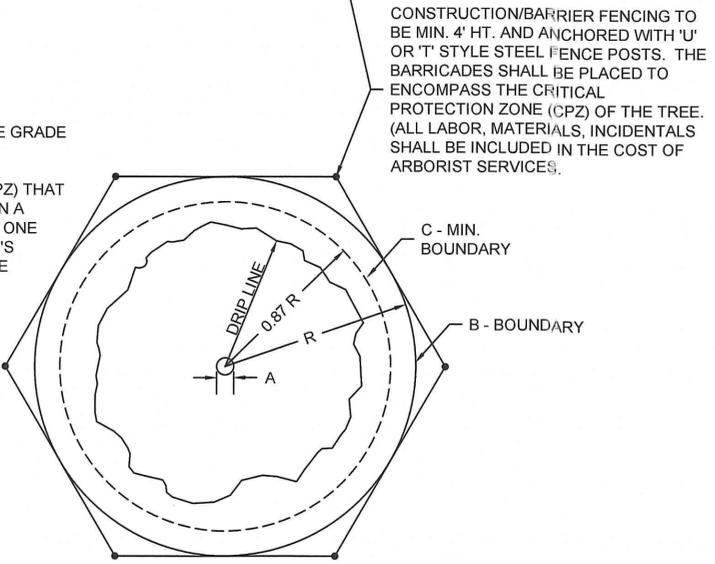
NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 CB-02 (MODIFIED)



A - DIAMETER IN INCHES 4'-6" ABOVE GRADE OF PROTECTED TREE

B - CRITICAL PROTECTION ZONE (CPZ) THAT AREA SURROUNDING A TREE WITHIN A CIRCLE INSCRIBED BY A RADIUS OF ONE FOOT FOR EACH INCH OF THE TREE'S DIAMETER MEASURED AT 4'6" ABOVE GRADE

C - MIN. 75% OF B AREA



CONSTRUCTION FENCING FOR TREE PROTECTION

TREE PROTECTION DETAILS FOR CONSTRUCTION AROUND EXISTING TREES

SCALE: N.T.S. (22"x34" SHEET)



SUBMITTED BY: DAVID M. ARF, PROJECT MANAGER, LICENSE NO. 37832

SUBMITTED BY: DAVID M. ARF, LICENSE NO. 37832



MARK	DESCRIPTION	DATE	BY	CHKD.
	RELEASED FOR BIDS & CONSTRUCTION	04/20/19	ARF	DAM

DESIGNED BY:	DAM/ARF
DRAWN BY:	ARF/RMM
CHECKED BY:	DAM

DATE: APRIL, 2019

DETAILED BY: ARF/RMM

HDC PROJECT NO. 2017-14

NEW RIVER CHANNEL IMPROVEMENTS
LOUISIANA
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
STANDARD TREE PROTECTION DETAILS

SHEET ID: **LD-02**

SHEET SET: **82 OF 82**

REVISION RECORD

NEW RIVER CANAL SURVEY

DATE:	7/2018
DRAWN BY:	PES
DESIGNED BY:	PES
CHECKED BY:	BKD:JC

BRYANT HAMMETT & ASSOCIATES, LLC
 CIVIL ENGINEERING & LAND SURVEYING

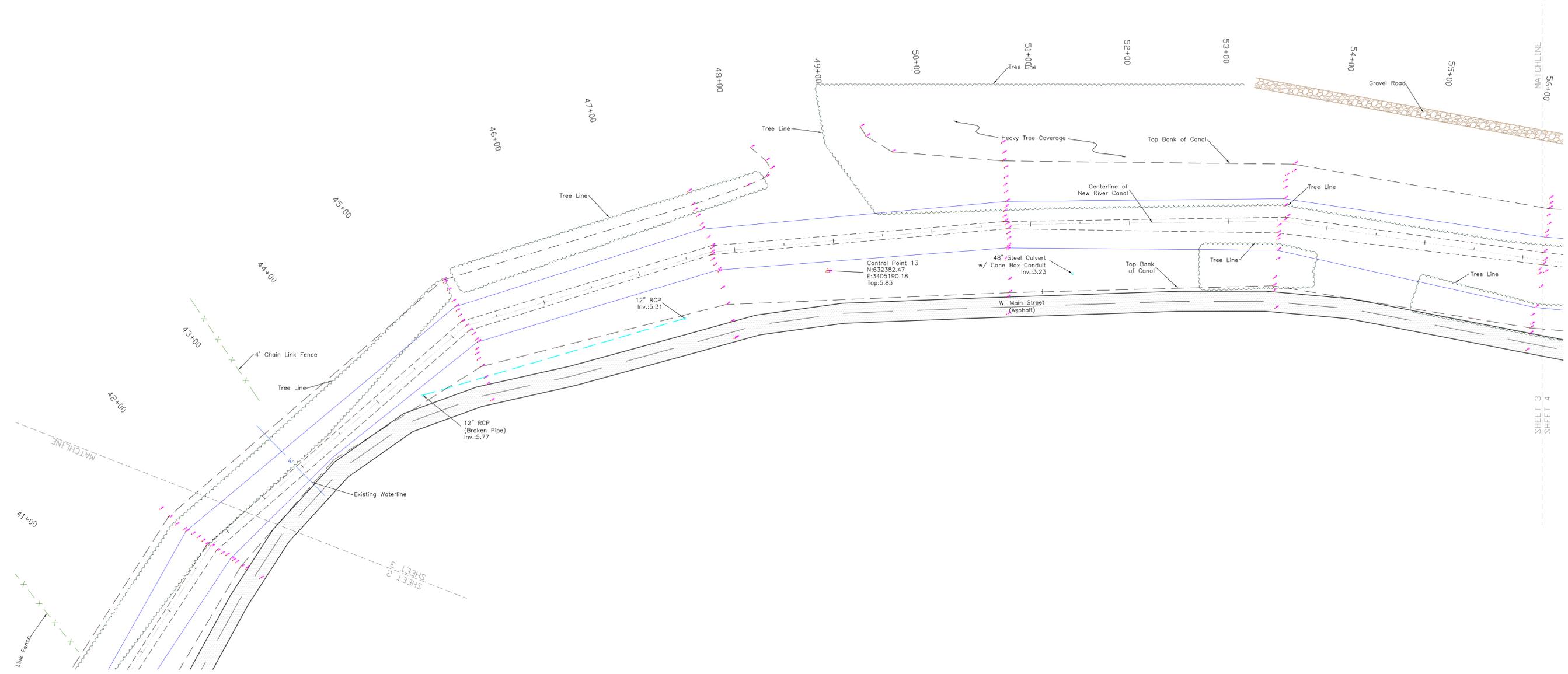


NO.	DESCRIPTION	BY

STATE OF LOUISIANA
 BRUCE K. DYSON
 REG. No. 4670
 REGISTERED PROFESSIONAL SURVEYOR
 7/24/18



- LEGEND**
- Utility/Light Pole
 - Guy
 - Telephone Pedestal
 - Sewer Manhole
 - Drain Manhole
 - Sign
 - Fire Hydrant
 - Water Valve
 - Water Meter
 - Existing Tree
 - Telephone Manhole
 - Gas Valve
 - Existing Post
 - Bridge Piling
- LEGEND**
- T Existing Fiber Optic Line
 - W Existing Waterline
 - G Existing Gas Line
 - OHE Existing Overhead Electric Line
 - X Existing Fence
 - Existing Guardrail
 - Edge of Water
 - Tree Drip Line
 - Tree Line



NEW RIVER CANAL SURVEY

DATE:	7/2018
DRAWN BY:	PES
DESIGNED BY:	PES
CHECKED BY:	BKD,JC

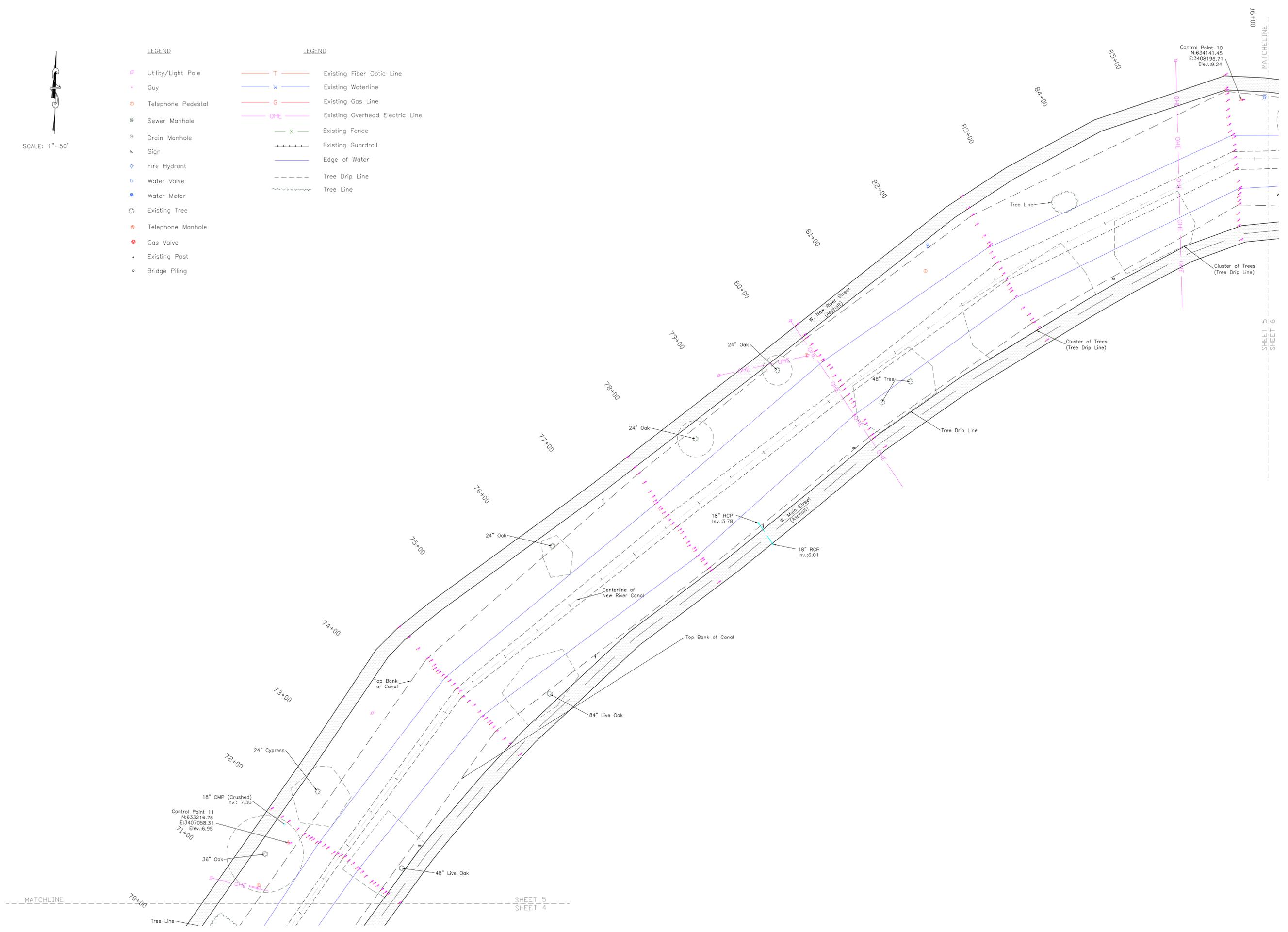
BRYANT HAMMETT & ASSOCIATES, LLC
 CIVIL ENGINEERING & LAND SURVEYING



NO.	DESCRIPTION	BY



- LEGEND**
- Utility/Light Pole
 - Guy
 - Telephone Pedestal
 - Sewer Manhole
 - Drain Manhole
 - Sign
 - Fire Hydrant
 - Water Valve
 - Water Meter
 - Existing Tree
 - Telephone Manhole
 - Gas Valve
 - Existing Post
 - Bridge Piling
- LEGEND**
- T Existing Fiber Optic Line
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 - X Existing Fence
 - Existing Guardrail
 - Edge of Water
 - Tree Drip Line
 - Tree Line



MATCHLINE

SHEET 5
SHEET 4

SHEET 5
SHEET 6

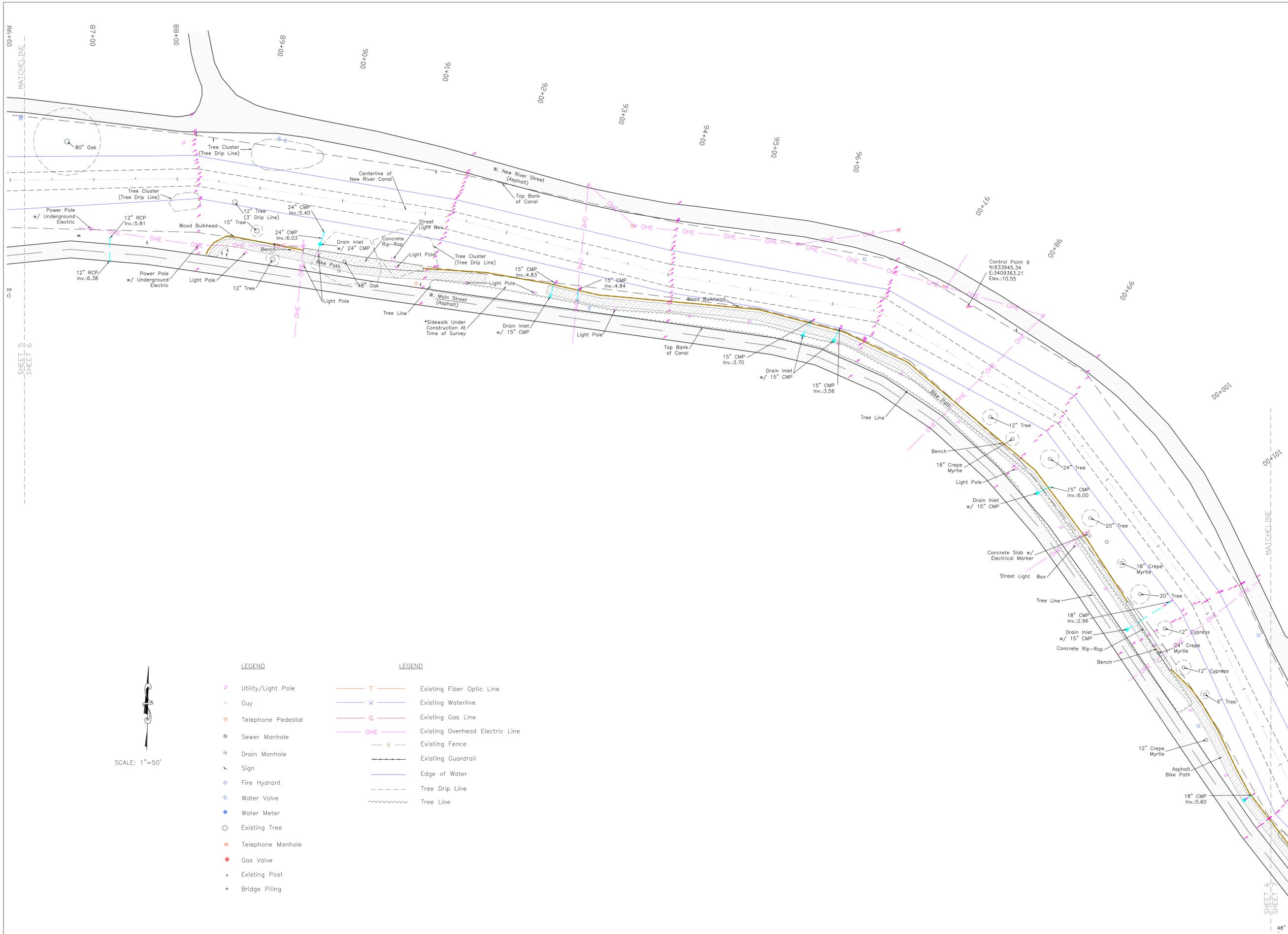
NEW RIVER CANAL SURVEY

DATE: 7/20/18
 DRAWN BY: PES
 DESIGNED BY: PES
 CHECKED BY: BKD,JC

BRYANT HAMMETT & ASSOCIATES, LLC
 CIVIL ENGINEERING & LAND SURVEYING



NO.	DESCRIPTION	BY



SCALE: 1"=50'

- | LEGEND | | LEGEND | |
|--------|--------------------|---------|---------------------------------|
| □ | Utility/Light Pole | T | Existing Fiber Optic Line |
| • | Guy | W | Existing Waterline |
| ○ | Telephone Pedestal | G | Existing Gas Line |
| ⊙ | Sewer Manhole | OHE | Existing Overhead Electric Line |
| ⊙ | Drain Manhole | X | Existing Fence |
| ▲ | Sign | —+—+—+— | Existing Guardrail |
| ◆ | Fire Hydrant | — | Edge of Water |
| ⊕ | Water Valve | - - - - | Tree Drip Line |
| ⊕ | Water Meter | ~~~~~ | Tree Line |
| ⊙ | Existing Tree | | |
| ⊙ | Telephone Manhole | | |
| ● | Gas Valve | | |
| • | Existing Post | | |
| • | Bridge Piling | | |

48"

DATE:	7/2018
DRAWN BY:	PES
DESIGNED BY:	PES
CHECKED BY:	BKD,JC

BRYANT HAMMETT & ASSOCIATES, LLC
 CIVIL ENGINEERING & LAND SURVEYING



NO.	DESCRIPTION	BY



SCALE: 1"=50'

- LEGEND**
- Utility/Light Pole
 - Guy
 - Telephone Pedestal
 - Sewer Manhole
 - Drain Manhole
 - Sign
 - Fire Hydrant
 - Water Valve
 - Water Meter
 - Existing Tree
 - Telephone Manhole
 - Gas Valve
 - Existing Post
 - Bridge Piling

- LEGEND**
- T Existing Fiber Optic Line
 - W Existing Waterline
 - G Existing Gas Line
 - OHE Existing Overhead Electric Line
 - X Existing Fence
 - Existing Guardrail
 - Edge of Water
 - Tree Drip Line
 - Tree Line

SHEET 6
SHEET 7

MATCHLINE
SHEET 7
SHEET 8

NEW RIVER CANAL SURVEY

DATE: 7/2018
 DRAWN BY: PES
 DESIGNED BY: PES
 CHECKED BY: BKDJC

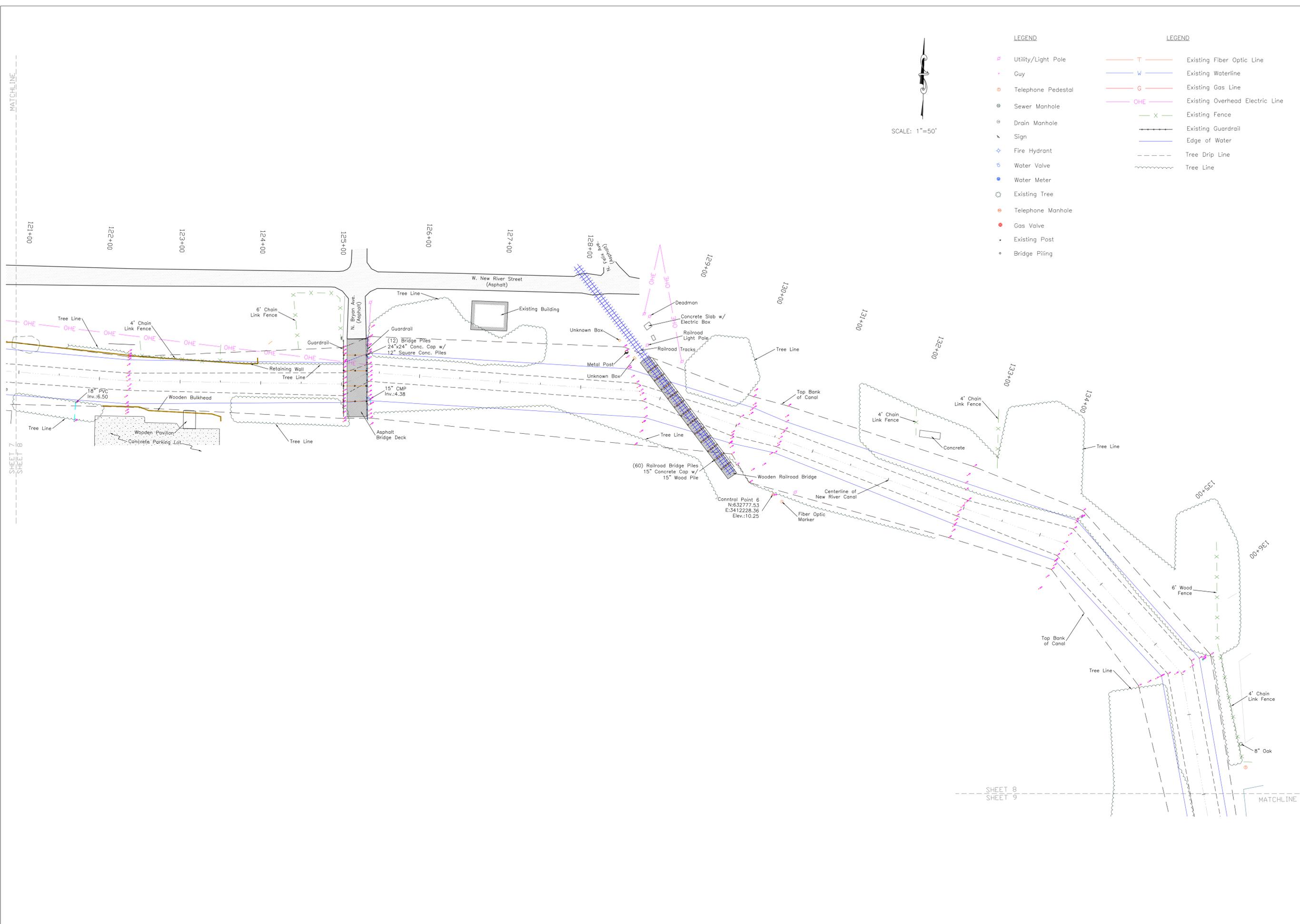
BRYANT HAMMETT & ASSOCIATES, LLC
 CIVIL ENGINEERING & LAND SURVEYING



NO.	DESCRIPTION	BY



FILE NO.:



LEGEND

- Utility/Light Pole
- Guy
- Telephone Pedestal
- Sewer Manhole
- Drain Manhole
- Sign
- Fire Hydrant
- Water Valve
- Water Meter
- Existing Tree
- Telephone Manhole
- Gas Valve
- Existing Post
- Bridge Piling

LEGEND

- Existing Fiber Optic Line
- Existing Waterline
- Existing Gas Line
- Existing Overhead Electric Line
- Existing Fence
- Existing Guardrail
- Edge of Water
- Tree Drip Line
- Tree Line

MATCHLINE

SHEET 7
SHEET 8

SHEET 8
SHEET 9

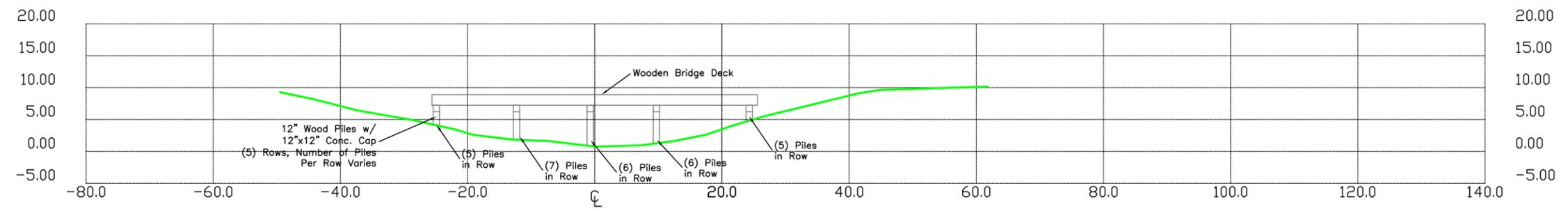
MATCHLINE

DATE: 7/2018
 DRAWN BY: PES
 DESIGNED BY: PES
 CHECKED BY: J.C. BKO

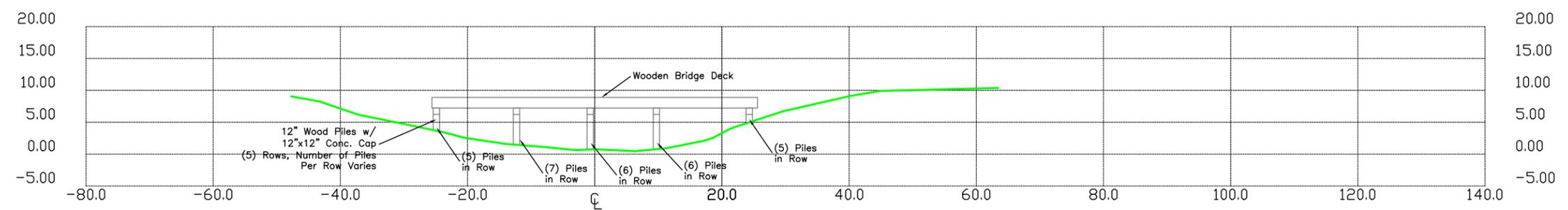
BRYANT HAMMETT & ASSOCIATES, LLC
 CIVIL ENGINEERING & LAND SURVEYING



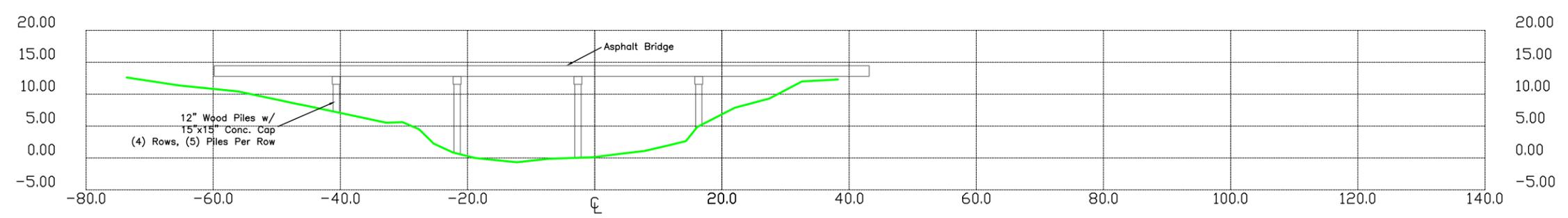
NO.	DESCRIPTION	BY



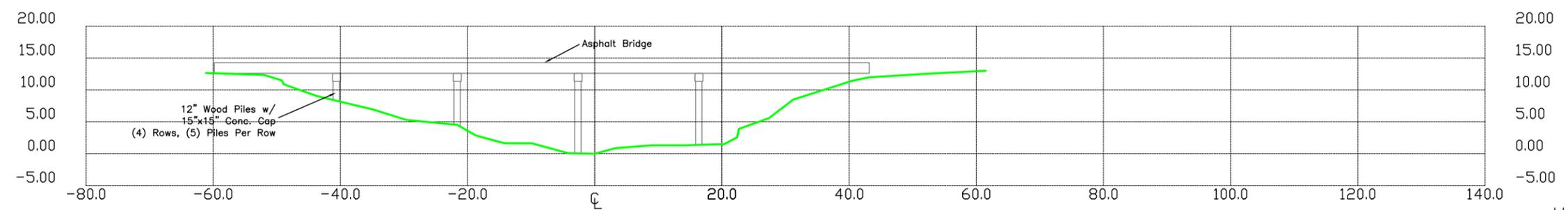
26+40.60
 Bridge #2



25+98.24
 Bridge #2



14+27.60
 Bridge #1



13+89.10
 Bridge #1

Hori. & Vert.
 Scale: 1"=20'



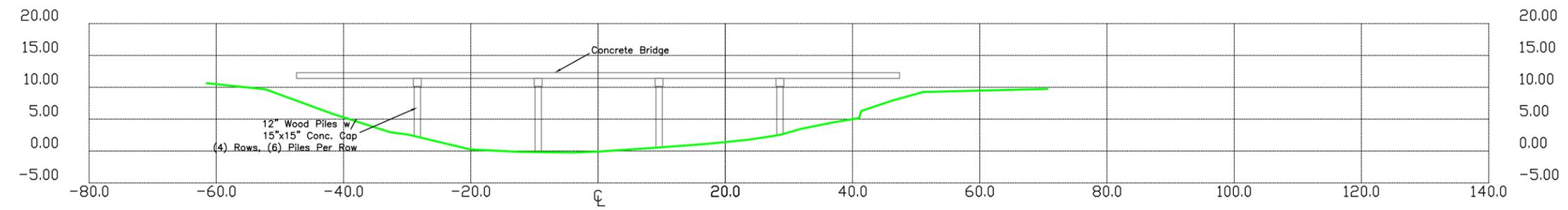
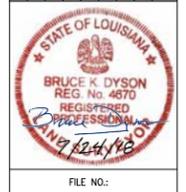
NEW RIVER CANAL SURVEY

DATE: 7/2018
 DRAWN BY: PES
 DESIGNED BY: PES
 CHECKED BY: JC, BK

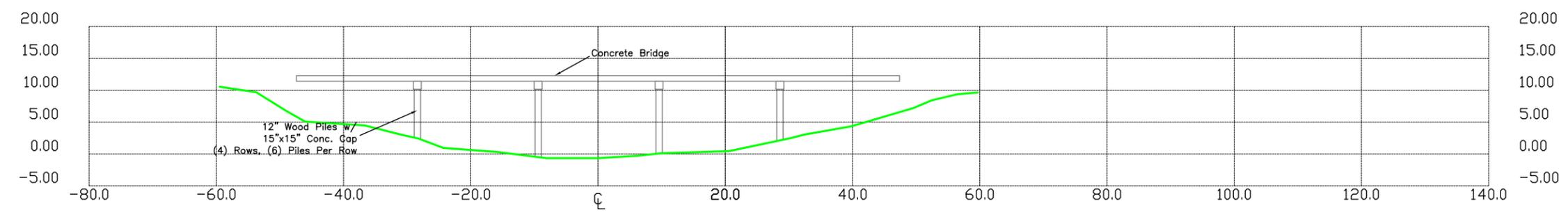
BRYANT HAMMETT & ASSOCIATES, LLC
 CIVIL ENGINEERING & LAND SURVEYING



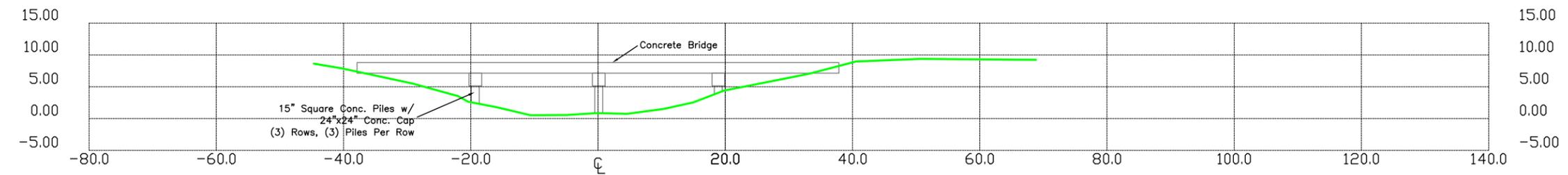
NO.	DESCRIPTION	BY



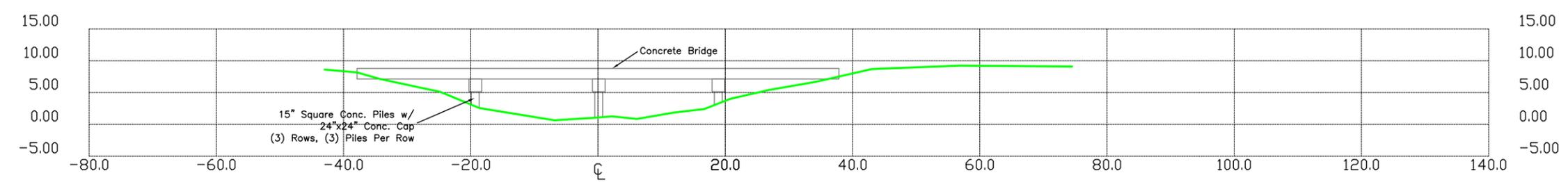
110+17.81
 Bridge #4



109+83.42
 Bridge #4

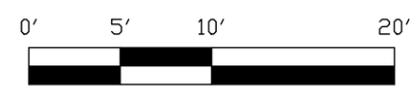


33+46.16
 Bridge #3



33+11.99
 Bridge #3

Hori. & Vert.
 Scale: 1"=20'

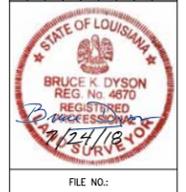


DATE:	7/2018
DRAWN BY:	PES
DESIGNED BY:	PES
CHECKED BY:	JC, BK

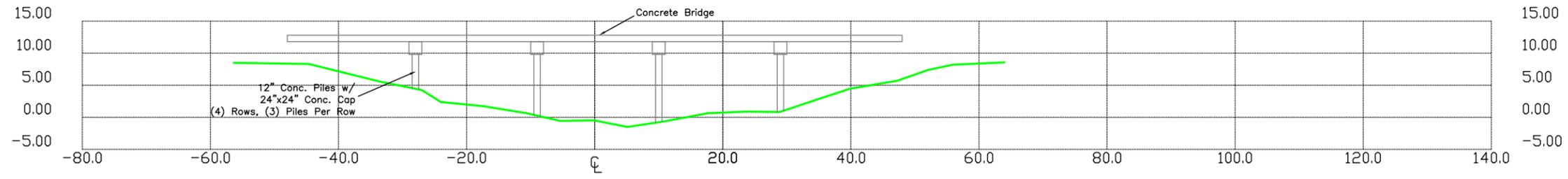
BRYANT HAMMETT & ASSOCIATES, LLC
 CIVIL ENGINEERING & LAND SURVEYING



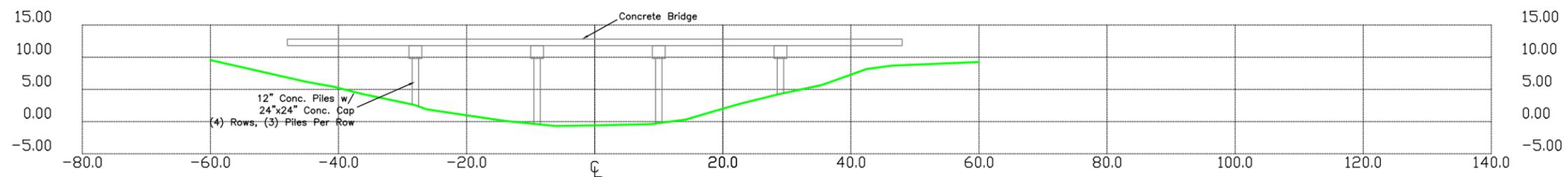
NO.	DESCRIPTION	BY



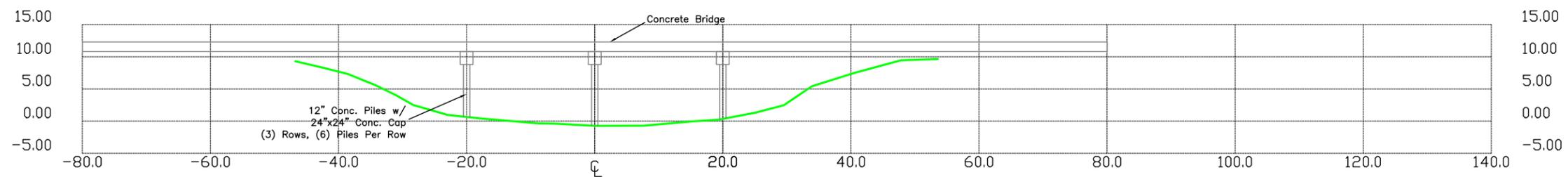
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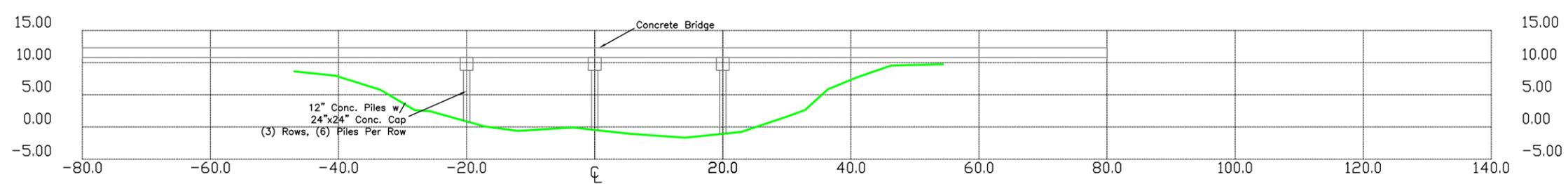
125+39.04
Bridge #6



125+01.99
Bridge #6



119+58.92
Bridge #5

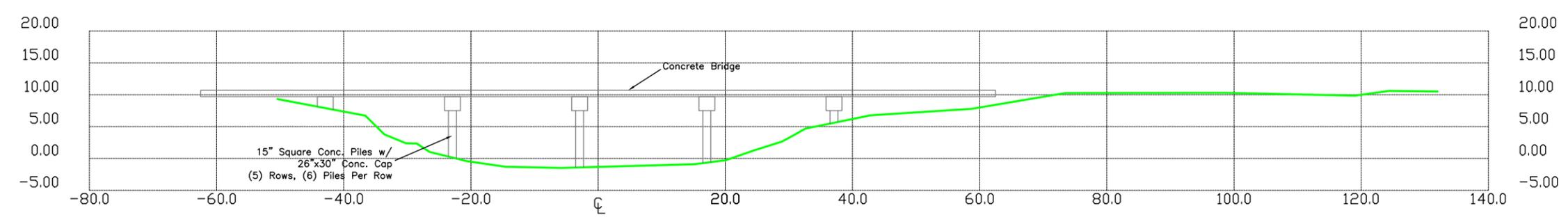


118+92.10
Bridge #5

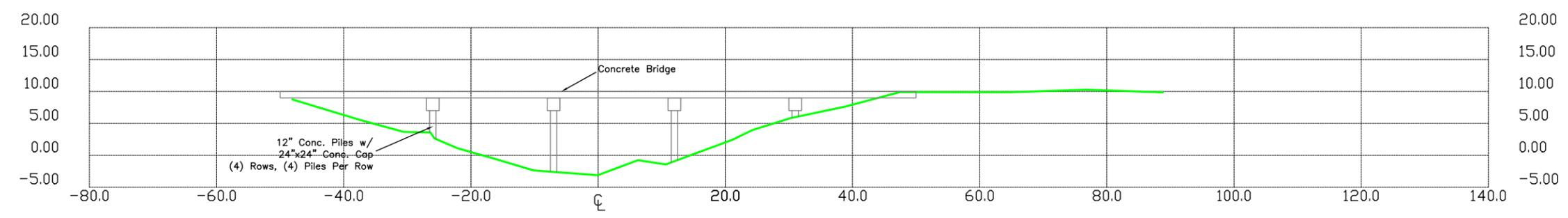
Hori. & Vert.
Scale: 1"=20'



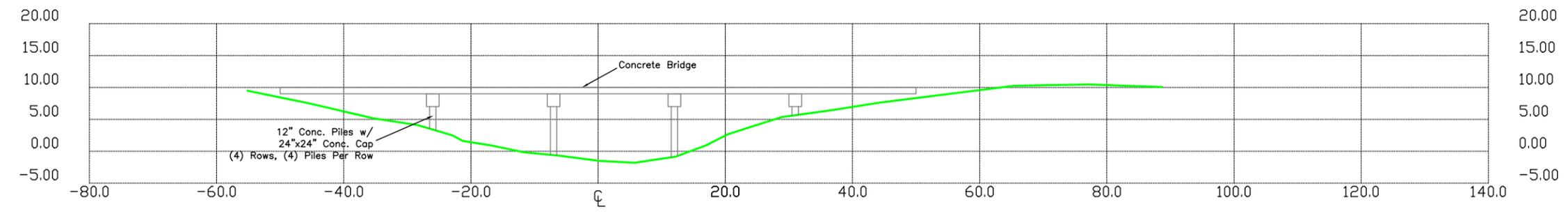
NEW RIVER CANAL SURVEY



151+20.53
Bridge #8



148+99.34
Bridge #7



148+64.17
Bridge #7

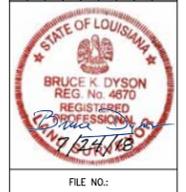
Hori. & Vert.
Scale: 1"=20'



DATE:	7/2018
DRAWN BY:	PES
DESIGNED BY:	PES
CHECKED BY:	JC, BK

BRYANT HAMMETT & ASSOCIATES, LLC
CIVIL ENGINEERING & LAND SURVEYING

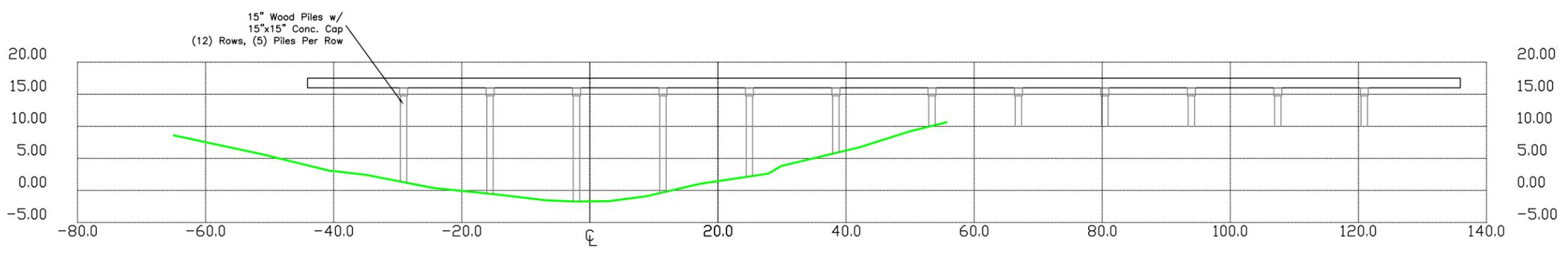
NO.	DESCRIPTION	BY



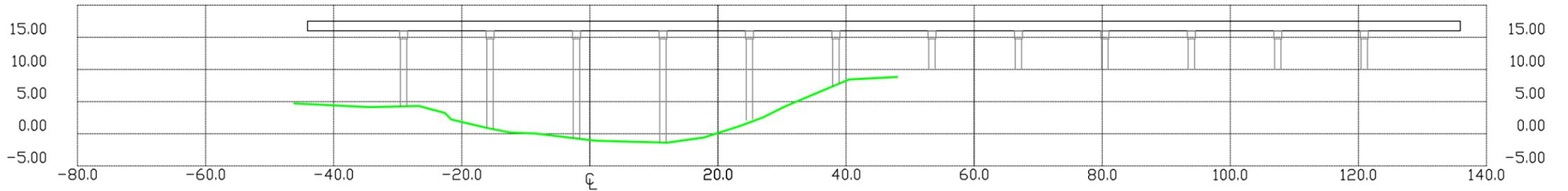
NEW RIVER CANAL SURVEY

DATE: 7/2018
DRAWN BY: PES
DESIGNED BY: PES
CHECKED BY: J.C. BKO

BRYANT HAMMETT & ASSOCIATES, LLC
 CIVIL ENGINEERING & LAND SURVEYING



130+13.35
Railroad Bridge



128+69.91
Railroad Bridge

Hori. & Vert.
Scale: 1"=20'



NO.	DESCRIPTION	BY

