

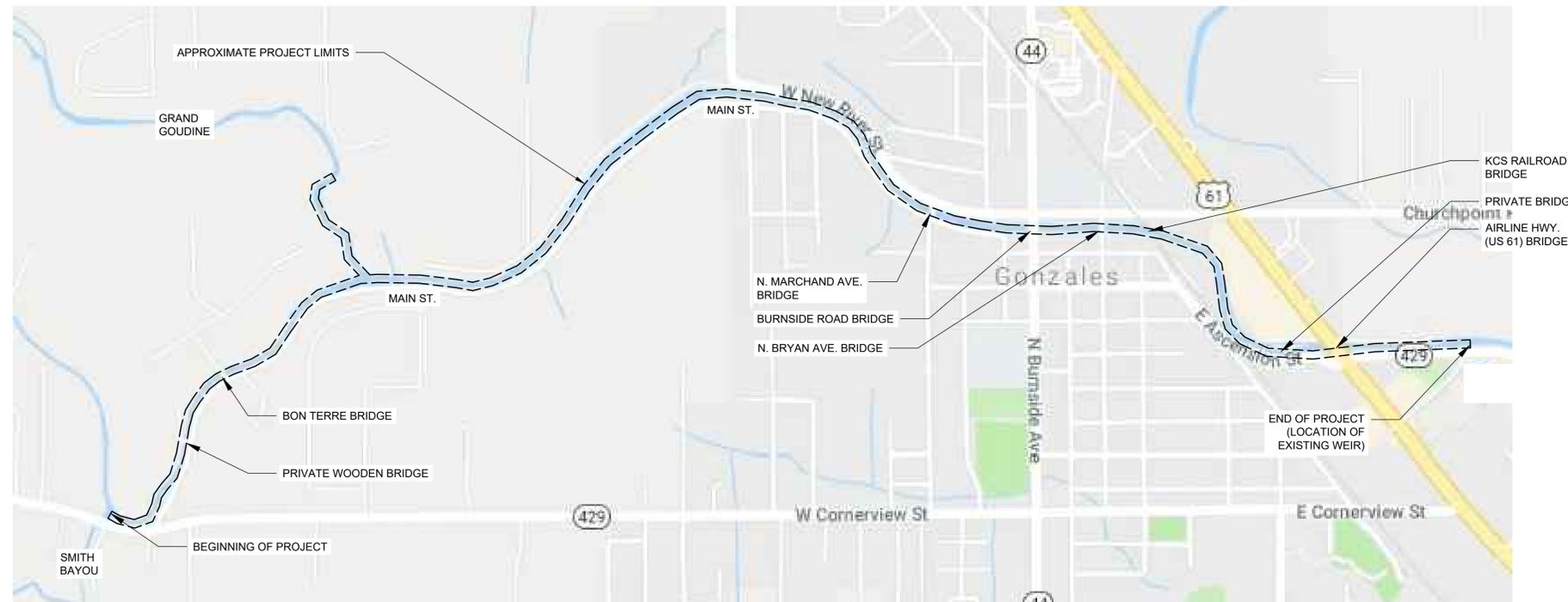
CONTRACT DRAWINGS FOR NEW RIVER CHANNEL IMPROVEMENTS EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1 ASCENSION PARISH, LOUISIANA PARISH PROJECT No. EAD 15-004 HDCA PROJECT NO. 2017-14



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
CLINT COINTMENT

DIRECTOR-ASCENSION PARISH DPW
RON RAVOY, P.E.

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

PARISH COUNCIL

ALVIN THOMAS	DISTRICT 1
JOEL ROBERT	DISTRICT 2
TRAVIS TURNER	DISTRICT 3
COREY ORGERON	DISTRICT 4
DEMPSEY LAMBERT	DISTRICT 5
CHASE MELANCON	DISTRICT 6
AARON LAWLER	DISTRICT 7
TERI CASSO	DISTRICT 8, CHAIRWOMAN
DAL WAGUESPACK	DISTRICT 9
JOHN CAGNOLATTI	DISTRICT 10
MICHAEL MASON	DISTRICT 11

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



H. DAVIS COLE, P.E.
MANAGING MEMBER/
PRINCIPAL ENGINEER

30219

LICENSE No.

DATE

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 REACKWAYS 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
MR. MICHAEL J. ENLOW
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MR. RON SAVOY
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UTILITY/OTHER FACILITY OWNERS IN PROJECT AREA

CITY OF GONZALES WATER, SEWER, GAS MS. JACKIE BAUMANN, P.E., CHIEF ENGINEER, DEPARTMENT OF PUBLIC WORKS
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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.



PROJECT MANAGER: ANDREW LEON
SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL



MARK	DATE	BY	CHKD
RELEASED FOR BIDS & CONSTRUCTION	07/20/21	RM	HDC

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 & PROJECT CONTACTS

	CONCRETE (PLAN AND SECTION)
	GROUT OR SAND (PLAN OR SECTION)
	BRICK (PLAN AND SECTION)
	CMU (PLAN AND SECTION)
	STEEL/ METAL/ FRP (SMALL SCALE SECTION)
	STEEL/ GRATING/ FRP (SMALL SCALE SECTION)
	CHECKERPLATE (SECTION)
	GRATING (PLAN)
	GRATING OR SOLID FRP GRATING (SECTION)
	SAFETY GRATING (PLAN)
	SAFETY GRATING (PLAN)
	WOOD (ELEVATION OR PLAN)
	LUMBER (NOMINAL)
	LUMBER (TRIMMED)
	GLULAM (SECTION)
	GLULAM (ELEVATION)
	PLYWOOD (SMALL SCALE)
	STRUCTURE OR FACILITY
	EXISTING STRUCTURE OR FACILITY
	FUTURE STRUCTURE OR FACILITY
	OPENING
	SPAN ARROW
	EARTH/ GRADE
	GRAVEL/ LIMESTONE/ AGGREGATE BASE
	CENTERLINE
	CENTERLINE
	PROPERTY LINE
	RIGHT OF WAY
	EASEMENT
	TEMPORARY EASEMENT
	UTILITY LINE (SEE DIRECTORY BELOW)
	GAS LINE (SIZE NOTED WHERE LARGER THAN 3")
	HIGH PRESSURE GAS
	WATER LINE (SIZE INDICATED)
	UNDERGROUND TELEPHONE
	HIGH VOLTAGE AC POWER LINE
	SANITARY SEWER (SIZE INDICATED)
	OVERHEAD WIRES
	STORM DRAIN (SIZE INDICATED)
	FIBER OPTIC CABLE
	COMMUNICATION CABLE
	FENCE (NEW)
	FENCE (EXISTING)
	WATER COURSE
	TRAIL OF DIRT ROAD
	MAJOR CONTOUR LINE (NEW)
	MAJOR CONTOUR LINE (NEW)
	MAJOR CONTOUR LINE (NEW)

	SUPPLY OR OUTSIDE AIR DUCT (FIRST DIMENSION, DUCT WIDTH)
	EXHAUST OR RETURN AIR DUCT (FIRST DIMENSION, DUCT WIDTH)
	CEILING SUPPLY DIFFUSER (SIZE IN INCHES)
	CEILING RETURN OR EXHAUST AIR GRILLE OR REGISTER (SIZE IN INCHES, WIDTH X HEIGHT)
	EXHAUST OR AIR GRILLE OR REGISTER (SIZE IN INCHES, WIDTH X HEIGHT)
	SUPPLY GRILLE OR REGISTER (SIZE IN INCHES, WIDTH X HEIGHT)
	AIR TURNING VANES IN DUCT
	DEFLECTING DAMPER
	FIRE HOSE CABINET
	FIRE EXTINGUISHER
	UNIT HEATER
	BALL VALVE
	DIAPHRAGM VALVE
	CHECK VALVE
	PRESSURE RELEASE VALVE
	BACK PRESSURE VALVE
	MOTOR OPERATOR FOR VALVE (M = ELECTRIC / P = PNEUMATIC)
	TEMPERATURE CONTROL VALVE
	SOLENOID VALVE
	MULTIPOINT VALVE - 3WAYS
	MULTIPOINT VALVE - 4WAYS
	FLOAT OPERATED VALVE
	NEEDLE VALVE
	PRESSURE RELIEF VALVE
	ANGLE VALVE
	HOSE BIBB (H/B)
	INJECTOR OR EDUCTOR
	AIR VACUUM AND AIR RELEASE ASSEMBLY
	PIPE ANCHOR
	POWER POLE
	PIPELINE (CIVIL SHEETS) 24" Ø AND LARGER
	PIPELINE (CIVIL SHEETS) 12" Ø TO 20" Ø
	PIPELINE (CIVIL SHEETS) 10" Ø AND SMALLER
	FLOW DIRECTION
	VEGETATION

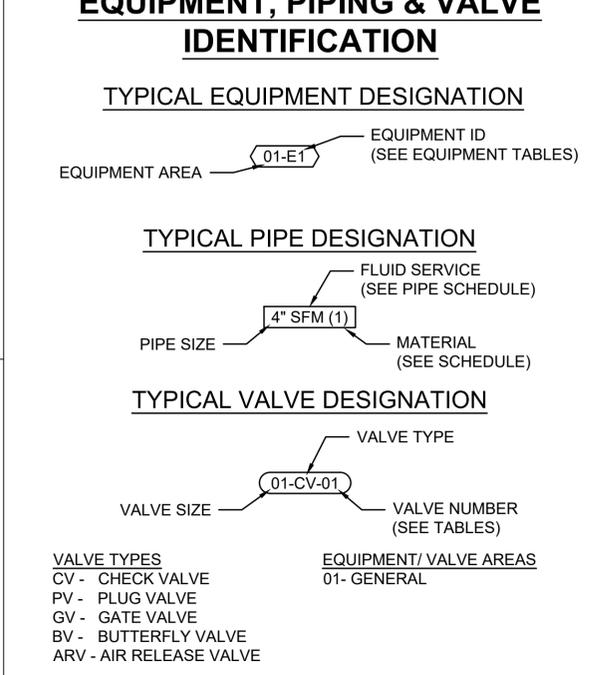
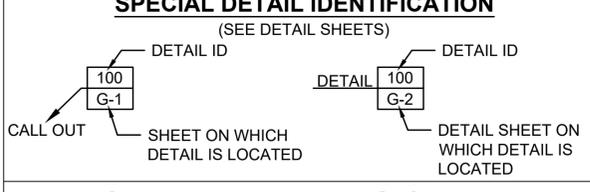
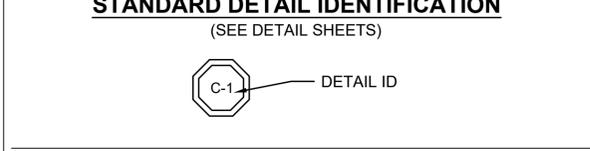
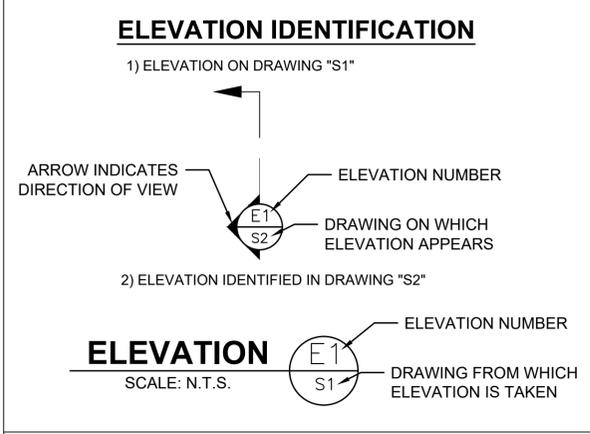
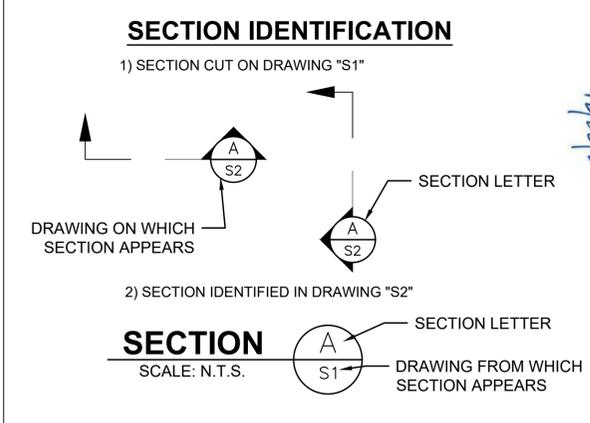
	ISOLATION VAULT & MAJOR BLOWOFF VAULT (IN PLAN)
	CATHODIC TEST STATION (IN PROFILE)
	CATHODIC TEST STATION (IN PROFILE)
	CORROSION TEST STATION
	CASING TEST STATION
	INSULATING JOINT TEST STATION
	FOREIGN PIPELINE TEST STATION
	CURRENT SPAN TEST STATION
	FIRE HYDRANT
	MANHOLE
	PRESSURE CLEANOUT TO GRADE
	CLEANOUT TO GRADE
	REDUCER OR INCREASER (PROVIDED SIZE)
	ELECTROLYSIS TEST STATION
	WALL CLEANOUT
	FLOOR CLEANOUT
	HUB DRAIN
	FLOOR DRAIN
	FLOOR SINK
	CHANGE IN PIPING MATERIAL
	BACKWATER VALVE
	BACKFLOW PREVENTER
	STOP GATE
	SLIDE GATE
	SLUICE GATE
	GATE VALVE, BURIED WITH VALVE BOX
	BUTTERFLY VALVE, BURIED WITH VALVE BOX
	ECCENTRIC PLUG VALVE, BURIED VALVE BOX
	LUBRICATED PLUG VALVE, BURIED WITH VALVE BOX
	GATE VALVE
	BUTTERFLY VALVE OR DAMPER
	ECCENTRIC PLUG VALVE
	LUBRICATED PLUG VALVE
	GLOBE VALVE
	BUBBLE LEVEL CONTROL
	CENTRIFUGAL OR TURBINE PUMP OR FAN
	METERING PUMP

	PROGRESSIVE CAVITY, POSITIVE DISPLACEMENT PUMP
	PROGRESSIVE CAVITY, POSITIVE DISPLACEMENT PUMP
	PRESSURE GAUGE
	PRESSURE GAUGE WITH DIAPHRAGM SEAL
	PRESSURE SWITCH
	PRESSURE SWITCH WITH DIAPHRAGM SEAL
	FLANGED FITTING
	MECHANICAL - TYPE FITTING (GROOVED)
	SCREWED, WELDED, SOCKET-WELD, BELL & SPIGOT OR HUBLESS FITTING
	SLEEVE TYPE COUPLING
	FLANGED ADAPTER - SET SCREW TYPE
	MECHANICAL - TYPE COUPLING
	UNION
	QUICK DISCONNECT COUPLING
	CAPPED END OR PLUGGED END
	BLIND FLANGE
	REDUCER OR INCREASER
	STRAINER OR 45° WYE
	DRAIN
	FLOW TUBE
	MAGNETIC METER
	DENSITY METER
	PROPELLER METER
	ULTRASONIC METER
	ORIFACE PLATE FLANGES
	ROTAMETER
	CONDENSATE TRAP
	PIPE SUPPORT ON PLAN

LEGEND FOR CROSS SECTION SHEETS:

- AREA OF DRAINAGE EXCAVATION

- AREA OF EMBANKMENT



LICENSE NO. 27823	LICENSE NO. 27823	SUBMITTED BY: ANDREW ERD, E.I. PROJECT MANAGER	SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL
		H. Davis Cole & Associates, LLC Consulting Engineers	
NEW RIVER CHANNEL IMPROVEMENTS LOUISIANA		EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1 42077 CHURCHPOINT ROAD, GONZALES, LA 70737	
DESIGNED BY: DAM/ARF	DRAWN BY: ARF/RMM	CHECKED BY: DAM	DATE: APRIL, 2019
DETAILED BY: ARF/RMM		HDC PROJECT NO. 2017-14	
DRAWING STANDARDS & SYMBOLS			
SHEET ID G4			
SHEET SET 5 OF 84			

A	AIR	CPLG	COUPLING	FOM	FACE OF MASONRY	LP	LOW POINT/ LOW PRESSURE/ LAMP POST	PNL	PANEL	SY	SQUARE YARD
A/C	AIR CONDITIONING	CPVG	CHLORINATED POLYVINYL CHLORIDE	FOS	FACE OF STUD	LSSRB	LOUISIANA STANDARD SPECIFICATION FOR ROADS	POB	POINT OF BEGINNING	SYM	SYMMETRICAL/ SYMBOL
AASHO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	CS	CAUSTIC SODA/ CAST STEEL	FOW	FACE OF WALL	POT	POINT OF CONNECTION	POC	POINT OF CONNECTION	SYS	SYSTEM
AB	ANCHOR BOLTS	CSP	CORRUGATED STEEL PIPE	FPC	FLEXIBLE PIPE COUPLING	LT	LEFT/ LIGHT	POT	POINT OF TANGENT	T	THERMOSTAT/ TREAD OF STAIR/ TANGENT/ TOP
ABAN	ABANDON	CSTS	CURRENT SPAN TEST STATION	FPM	FEET PER MINUTE	LTS	LIME TREATED SOIL	PP	POWER POLE/ POLYPROPYLENE	T&B	TOP AND BOTTOM
ABAND	ABANDONED	CT	CERAMIC TILE	FPS	FEET PER SECOND	LW	LOW WATER	PPD	POUNDS PER DAY	T&G	TONGUE AND GROOVE
ABBR	ABBREVIATION	CTR	CENTER	FPTS	FOREIGN PIPE TEST STATION	LWL	LOW WATER LEVEL	PPH	POUNDS PER HOUR	TAN	TANGENT
ABS	ABSOLUTE TEMPERATURE	FR	FRAME	FR	FRAME	LWR	LOWER	PPM	POUNDS PER MINUTE	TB	TACK BOARD
AC	ACTIVATED CARBON/ ASPHALTIC CONCRETE/ ALTERNATE CURRENT	FRP	FIBERGLASS REINFORCED PLASTIC	FRP	FIBERGLASS REINFORCED PLASTIC	M	METER/ MALE (PIPE THREAD)	PR	PAIR	TBE	THREAD BOTH ENDS
ACI	AMERICAN CONCRETE INSTITUTION	FS	FIBERGLASS SURFACE/ FAR SIDE/ FLOOR SINK/ FORGED STEEL/ FROTH SPRAY	FS	FIBERGLASS SURFACE/ FAR SIDE/ FLOOR SINK/ FORGED STEEL/ FROTH SPRAY	MACH	MACHINE	PRC	POINTS OF REVERSE CURVE	TBM	TEMPORARY BENCH MARK
ACOUS	ACOUSTIC/ ACOUSTICAL	FT	FEET/ FOOT	FT	FEET/ FOOT	MAG	MAGNETIC	PRCT	PRECAST/ PERCENT	TC	TOP OF CURB
ACP	ASBESTOS CEMENT PIPE/ ASPHALTIC CONCRETE PAVEMENT	FTG	FOOTING	FTG	FOOTING	MAINT	MAINTENANCE	PRESS	PRESSURE	TCV	TEMPERATURE CONTROL VALVE
ADD	ADDITION	FUR	FURRING	FUR	FURRING	MAN	MANUAL	PROF	PROFILE	TEL	TELEPHONE
ADH	ADHESIVE	FUT	FUTURE	FUT	FUTURE	MAS	MASONRY	PRV	PRESSURE REGULATING, RELIEF, OR REDUCING VALVE	TEMP	TEMPERATURE/ TEMPORARY
ADJ	ADJUSTABLE	FV	FIELD VERIFY	FV	FIELD VERIFY	MATL	MATERIAL	PRVC	POINT OF REVERSE VERTICAL CURVE	TF	TOP OF FOOTING
AER	AERATION	FWD	FORWARD	FWD	FORWARD	MAX	MAXIMUM	PS	PRESSURE SWITCH	TH	TEST HOLE
AFF	ABOVE FINISHED FLOOR	G	GAS	G	GAS	MB	MAIL BOX/ MACHINE BOLT	PSF	POUNDS PER SQUARE FOOT	THK	THICK/ THICKNESS
AFTS	AIR FLOW TEST STATION	GA	GAGE/ GAUGE	GA	GAGE/ GAUGE	MCC	MOTOR CONTROL CENTER	PSI	POUNDS PER SQUARE INCH	THR	THRESHOLD
AISC	AMERICAN INSTITUTION OF STEEL CONSTRUCTION	GAL	GALLON	GAL	GALLON	MCR	MIDDLE OF CURB RETURN	PSIA	POUNDS PER SQUARE INCH ABSOLUTE	THR'D	THREADED
ALT	ALTERNATIVE	GALV	GALVANIZED	GALV	GALVANIZED	MEAS	MEASURE	PSIG	POUNDS PER SQUARE INCH GAUGE	TK	TANK/TACK
ALUM	ALUMINIUM	GANC	GUY ANCHOR	GANC	GUY ANCHOR	MECH	MECHANICAL	PT	POINT OF TANGENCY/ PAINT/ PRESSURE TREATED	TL	TRAVERSE LINE
AMB	AMBIENT	GEN	GENERATOR	GEN	GENERATOR	MED	MEDIUM	PTFE	POLY(TETRAFLUOROETHYLENE (TEFLON))	TOC	TOP OF CONCRETE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MFRD	MANUFACTURED	MFRD	MANUFACTURED	MEMB	MEMBER	PV	PUG VALVE	TOE	THREAD ONE END
API	AMERICAN PETROLEUM INSTITUTE	GFA	GROOVED FLANGE ADAPTER	GFA	GROOVED FLANGE ADAPTER	MGD	MILLION GALLONS PER DAY	PVC	POLYVINYL CHLORIDE/ POLYVINYL CONDUIT (PIPE)	TOL	TOILET
APPD	APPROVED	GI	GALVANIZED IRON	GI	GALVANIZED IRON	MH	MANHOLE	PVDF	POLYVINYLIDENE FLUORIDE (KYNAR)	TOM	TOP OF MASONRY
APPROX	APPROXIMATE	GIP	GALVANIZED IRON PIPE	GIP	GALVANIZED IRON PIPE	MHT	MEAN HIGH TIDE	QT	QUARRY TILE	TOP	TOP OF PIPE
APPURTS	APPURTENANCES	GL	GLASS/ GROUND LINE/ GRADE LINE	GL	GLASS/ GROUND LINE/ GRADE LINE	MHW	MEAN HIGH WATER	QTY	QUANTITY	TOPO	TOPOGRAPHIC
ARCH	ARCHITECTURE	GLB	GLUE LAMINATED BEAM	GLB	GLUE LAMINATED BEAM	MI	MALLEABLE IRON/ MILE	QUAD	QUADRANGLE/ QUADRANT	TOS	TOP OF STEEL
AREA	AMERICAN RAILWAY ENGINEERING ASSOCIATION	GLV	GLOBE VALVE	GLV	GLOBE VALVE	MICRON	1/ 1,000,000 TH METER	R	RADIUS/ RISER/ RATE OF SLOPE	TOW	TOP OF WALL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	GM	GAS METER	GM	GAS METER	MIL	MILITARY/ 1/1,000 TH INCH	R&O	ROCK AND OIL	TP	TELEPHONE POLE
ASPH	ASPHALT	GP	GUY POLE	GP	GUY POLE	MIN	MINIMUM/ MINUTE	RAC	RECYCLED ASPHALT CONCRETE	TR	TRACT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	GPD	GALLONS PER DAY	GPD	GALLONS PER DAY	MIR	MIRROR	RAG	RETURN AIR GRILLE	TRANS	TRANSMITTER/ TRANSITION/ TRANSMISSION
AT	ACOUSTICAL TILE	GPH	GALLONS PER HOUR	GPH	GALLONS PER HOUR	MISC	MISCELLANEOUS	RAP	RECLAIMED ASPHALT PAVEMENT	TS	TRAFFIC SIGNAL
ATM	ATMOSPHERE	GPM	GALLONS HER MINUTE	GPM	GALLONS HER MINUTE	MK	MARK	RAS	RETURN ACTIVATED SLUDGE	TSB	TOP SET BASE
AV/RV	AIR VACUUM AND AIR RELEASE VACUUM	GR	GRADE	GR	GRADE	MLW	MEAN LOW WATER	RC	REINFORCED CONCRETE	TSC	TRAFFIC SIGNAL CONDUIT
AVE	AVENUE	GRD	GRADE/ GROUND	GRD	GRADE/ GROUND	mm	MILLIMETER	RCP	REINFORCED CONCRETE PIPE	TV	THERMOSTATIC VALVE/ TELEVISION
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION	GRTG	GRATING	GRTG	GRATING	MO	MOTOR OPERATED/ MASONRY OPENING	RD	ROAD/ ROOF DRAIN/ ROUND	TW	THERMOMETER WELL/ TRAVELED WAY
AWS	AMERICAN WELDING SOCIETY	GSP	GALVANIZED STEEL PIPE	GSP	GALVANIZED STEEL PIPE	MOD	MODEL/ MODIFICATION	RED	REDUCER/ REDUCING	TYP	TYPICAL
AWWA	AMERICAN WATER WORKS ASSOCIATION	GV	GATE VALVE	GV	GATE VALVE	MON	MONUMENT/ MONITOR	REF	REFERENCE/ REFER/ REFRIGERATOR	UB	UNION BONNET
B&S	BELL AND SPIGOT	GYP	GYP SUM	GYP	GYP SUM	MOR	MORTAR	REG	REGULATING	UC	UNDER-CROSSING
B/W	BACK OF WALL/ BACK OF WALK	H	HIGH/ HEIGHT	H	HIGH/ HEIGHT	MS	MOP SINK	REIN	REINFORCE/ REINFORCED	UG	UNDERGROUND
BC	BEGIN CURVE/ BOLT CIRCLE/ BETWEEN CENTERS	H&V	HEATING AND VENTILATING	H&V	HEATING AND VENTILATING	MSL	MEAN SEA LEVEL	REQD	REQUIRED	UGC	UNDERGROUND CONDUIT
BCR	BEGIN CURB RETURN	H/B	HOSE BIBB	H/B	HOSE BIBB	MTG	MOUNTING	RESIL	RESILIENT	UH	UNIT HEATER
BD	BOARD	H/C	HOUSE CONNECTION	H/C	HOUSE CONNECTION	MTG	MOUNTING	RET	RETAINING/ RETURN	UL	UNDERWRITER'S LABORATORIES
BDRY	BOUNDARY	HDR	HEADER	HDR	HEADER	MTR	MOTOR	REV	REVISION	UNO	UNLESS NOTED OTHERWISE
BF	BLIND FLANGE/ BOTTOM OF FOOTING	HDW	HARDWARE	HDW	HARDWARE	N	NORTH	RF	ROOF/ RAISED FOUNDATION/ ROUGH FACE	UR	URNAL
BFP	BACK FLOW PREVENTER	HDWL	HEADWALL	HDWL	HEADWALL	NaOCI	SODIUM HYPOCHLORITE	RFG	ROOFING	USA	UNDERGROUND SERVICE ALERT
BHP	BRAKE HORSEPOWER	HEX	HEXAGONAL	HEX	HEXAGONAL	NaOH	SODIUM HYDROXIDE (CAUSTIC SODA)	RH	REGISTERED GEOTECHNICAL ENGINEER	UDGS	UNITED STATES GEOLOGICAL SURVEY
BLDG	BUILDING	Hg	MERCURY	Hg	MERCURY	NBS	NATION BUREAU OF STANDARDS	RH	REDHEAD/ RIGHT HAND	V	VALVE/ VERTICAL/ VENT/ VOLT/ VOLUME
BLK	BLACK/ BLOCK	HGL	HYDRAULIC GRADE LINE	HGL	HYDRAULIC GRADE LINE	NC	NORMALLY CLOSED	RM	ROOM	VAC	VACUUM
BLKG	BLOCKING	HGR	HANGER	HGR	HANGER	NEC	NATIONAL ELECTRICAL CODE	RO	ROUGH OPENING	VAR	VARIABLE
BLVD	BOULEVARD	HM	HOLLOW METAL	HM	HOLLOW METAL	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	RPM	REVOLUTIONS PER MINUTE	VB	VALVE BOX
BM	BEAM/ BENCHMARK	HORIZ	HORIZONTAL	HORIZ	HORIZONTAL	NF	NEAR FACE	RSL	RAW SLUDGE	VC	VERTICAL CURVE
BO	BLOW-OFF ASSEMBLY	HP	HIGH POINT/ HORSE POWER/ HIGH PRESSURE	HP	HIGH POINT/ HORSE POWER/ HIGH PRESSURE	NFPA	NATION FIRE PROTECTION ASSOCIATION	RS	RAISING STEAM	VCP	VITRIFIED CLAY PIPE
BOD	BIOCHEMICAL OXYGEN DEMAND	HPG	HIGH PRESSURE GAS	HPG	HIGH PRESSURE GAS	NG	NATION GRADE/ NATURAL GAS	RT	RIGHT	VERT	VERTICAL
BOP	BOTTOM OF PIPE	HR	HEAT RETURN/ HOUR	HR	HEAT RETURN/ HOUR	NIC	NOT IN CONTRACT	RTP	REINFORCED THERMOSETTING PLASTIC	VOL	VOLUME
BOT	BOTTOM	HTG	HEATING	HTG	HEATING	NO	NORMALLY OPEN	RW	REDWOOD	VPI	VERTICAL POINT OF INSERTION
BPV	BACK PRESSURE VALVE	HTR	HEATER	HTR	HEATER	NOM	NOMINAL	RWL	RAINWATER LEADER	VTC	VENT TO CEILING
BRK	BRICK/ BREAK	HV	HORIZONTAL AND VERTICAL CONTROL POINT	HV	HORIZONTAL AND VERTICAL CONTROL POINT	NPS	NOMINAL PIPE SIZE	S	SOUTH/ SCUM/ SINK/ SECOND/ SLOPE/ SAND	VTR	VENT THROUGH ROOF
BSMT	BASEMENT	HVAC	HEATING, VENTILATION AND AIR CONDITION/ HIGH VOLTAGE AC POWER LINE	HVAC	HEATING, VENTILATION AND AIR CONDITION/ HIGH VOLTAGE AC POWER LINE	NPT	NATIONAL PIPE THREAD	S/O	SOUTH OF	VVC	VINYL WALL COVERING
BT	BOLT	HW	HOT WATER/ HEADWORK	HW	HOT WATER/ HEADWORK	NRC	NON-REINFORCED CONCRETE PIPE	SA	SAMPLE	VWM	VERIFY WITH MANUFACTURER
BTU	BRITISH THERMAL UNIT	HWD	HARDWOOD	HWD	HARDWOOD	NRS	NON-RAISING STEM	SAN	SANITARY	W	WEST/ WASTE/ WIDTH/ WIDE FLANGE
BV	BUTTERFLY VALVE	HWO	HAND WHEEL OPERATED	HWO	HAND WHEEL OPERATED	NS	NEAR SIDE	SBR	SPACE BUTADIENE (RUBBER)	W/	WITH
BVC	BEGIN VERTICAL CURVE	HYD	HYDRAULIC/ HYDRANT	HYD	HYDRAULIC/ HYDRANT	NTS	NOT TO SCALE	SC	SPACE CHEMICAL/ SECONDARY CLARIFIER	W/O	WEST OF/ WITHOUT
BVV	BACK WATER VALVE	I&O	INSIDE AND OUTSIDE	I&O	INSIDE AND OUTSIDE	OBJ	OBJECT	SCCP	STEEL CYLINDER CONCRETE PIPE	WCO	WATER COLUMN/ WATER CLOSET
C	CENTIGRADE/ CHANNEL/ CEMENT	ID	INSIDE DIAMETER	ID	INSIDE DIAMETER	OC	ON CENTER/ OVER-CROSSING	SCD	SCREWED	WD	WOOD
C&G	CURB AND GUTTER	IF	INSIDE FACE	IF	INSIDE FACE	OD	OUTSIDE DIAMETER/ OVERALL DIMENSION	SCFM	STANDARD CUBIC FEET PER MINUTE	WDW	WINDOW
CAB	CABINET/ CRUSHED AGGREGATE BASE	IJS	INSULATING JOINT TEST STATION	IJS	INSULATING JOINT TEST STATION	OE	OUTER EDGE	SCH	SCHEDULE	WH	WATER HEATER/ WALL HEATER
CAP	CAPACITY	IN	INCH	IN	INCH	OF	OVERFLOW/ OUTSIDE FACE	SD	STORM DRAIN	WI	WROUGHT IRON
CATS	CASING TEST STATION	INCL	INCLUDE/ INCLUDING	INCL	INCLUDE/ INCLUDING	OFD	OVERFLOW DRAIN	SDR	STANDARD THERMOPLASTIC PIPE DIMENSION	WM	WATER METER
CB	CATCH BASIN/ CHALK BOARD/ CURB	INFL	INFLUENT	INFL	INFLUENT	OFF	OFFICE	SER	SECONDARY/ SECTION	WOG	WATER, OIL OR GAS
CC	CLOSED CIRCUIT TV/ CENTER TO CENTER	INSL	INSULATION	INSL	INSULATION	OH	OVERHEAD	SETT	SETTING	WP	WATERPROOFING/ WORKING PRESSURE/ WEAK POINT
CD	CEILING DIFFUSER	INSP	INSPECTION	INSP	INSPECTION	OPNG	OPENING	SF	SQUARE FOOT	WPJ	WEAKEN PLANE JOINT
CEM	CEMENT	INT	INSTRUMENT	INT	INSTRUMENT	OPP	OPPOSITE	SH	SHOWER	WS	WATER SURFACE
CF	CURB FACE OR CUBIC FEET	IP	IRON PIPE	IP	IRON PIPE	ORIG	ORIGINAL	SHLV	SHELVING	WSTP	WATER STOP
CFH	CUBIC FEET PER HOUR	IPS	IRON PIPE SIZE	IPS	IRON PIPE SIZE	OS&Y	OUTSIDE SCREW & YORK	SHT	SHEET	WT	WEIGHT
CFM	CUBIC FEET PER MINUTE	IRRG	IRRIGATION	IRRG	IRRIGATION	OSA	OUTSIDE AIR	SHTG	SHEATHING/ SHEETING	WWF	WELDED WIRE FABRIC
CFS	CUBIC FEET PER SECOND	JAN	JANITOR	JAN	JANITOR	OSHA	OCCUPATIONAL SAFETY & HEALTH	SIM	SIMILAR	WWP	WATER WORKING PRESSURE
CHEM	CHEMICAL	JT	JOINT	JT	JOINT	OWG	OIL, WATER, GAS	SL	SLUDGE	WWTP	WASTE WATER TREATMENT PLANT
CHG	CHANGE	K	KELVIN/ KILO/ KARAT	K	KELVIN/ KILO/ KARAT	OZ	OUNCE	SLDG	SLIDING	XCONN	CROSS CONNECTION
CHKD	CHECKED	KG	KILOGRAM	KG	KILOGRAM	P	POLE/ PAGE/ PIPE	SLG	SLUICE GATE	XS	EXTRA STRONG
CI	CAST IRON	KM	KILOMETER	KM	KILOMETER	P/S	POLE AND SHELF	SOG	SLAB ON GRADE	XSEC	CROSS SECTION
CIP	CAST IRON PIPE/ CAST IN PLACE	KV	KILOVOLT	KV	KILOVOLT	PA	PLANTING AREA	SOLN	SOLUTION	XSS	DOUBLE EXTRA STRONG
CIPP	CAST IN PLACE PIPE	KWH	KILOWATT HOUR	KWH	KILOWATT HOUR	PART	PARTITION	SP	STATIC PRESSURE	YD	YARD
CJ	CONSTRUCTION JOINT	L	LITER/ LENGTH/ ANGLE	L	LITER/ LENGTH/ ANGLE	PAVMT	PAVEMENT	SPEC	SPECIFICATION	YR	YEAR
CL	CHLORINE GAS/ CHLORINATOR/ CENTERLINE	LAB	LABORATORY	LAB	LABORATORY	PB	POLYBUTYLENE/ PULL BOX	SPK	SPIKE	Z	ZERO/ ZONE
CLF	CHAIN LINK FENCE	LAM	LAMINATED	LAM	LAMINATED	PC	POINT OF CURVATURE/ PRIMARY CLARIFIER/ PORTLAND CEMENT	SO	SQUARE	ZN	ZINC
CLG	CEILING	LAT	LATERAL	LAT	LATERAL	PCC	PORTLAND CEMENT CONCRETE/ POINT OF COMPOUND CURVE	SST	STAINLESS STEEL	#	POUND
CLOS	CLOSET	LAV	LAVATORY	LAV	LAVATORY	PCOTG	PRE-STRESSED CONCRETE CYLINDER PIPE	SSB	SELECT SUB-BASE	&	AND
CLR	CLEAR/ CLEARANCE	LB	POUND	LB	POUND	PCVVC	POINT OF COMPOUND VERTICAL CURVE	SSPWC	STANDARD SPECIFICATION FOR PUBLIC WORKS CONSTRUCTION	@	AT
CM	CENTIMETER	LCP	LOCAL CONTROL PANEL	LCP	LOCAL CONTROL PANEL	PE	POLYETHYLENE/ PLANT EFFLUENT/ POLYELECTROLYTE POLYMER	SSU	SECONDS SAYBOLT UNIVERSAL		
CMB	CRUSHED MISCELLANEOUS BASE	LD	LOCAL DEPRESSION	LD	LOCAL DEPRESSION	PG	PRESSURE GAUGE	ST	STATION		
CMC	CEMENT MORTAR-COATED	LDG	LANDING	LDG	LANDING	pH	HYDROGEN ION CONCENTRATION	STC	SLEEVE-TYPE COUPLING		
CML	CEMENT MORTAR-LINED	LDOTD	LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT	LDOTD	LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT	PI	PLANT INFLUENT/ POINT OF INTERSECTION	STD	STANDARD		
CML&C	CEMENT LINED AND COATED	LF	LINEAR FEET	LF	LINEAR FEET	PK	PARKING	STK	STAKE		
CMP	CORRUGATED METAL PIPE	LG	LENGTH/ LONG	LG	LENGTH/ LONG	PL	PLATE/ PROPERTY LINE/ PLACE	STM	STEAM		
CMU	CONCRETE MASONRY UNIT	LH	LAMP HOLE/ LEFT HAND	LH	LAMP HOLE/ LEFT HAND	PLAS	PLASTER/ PLASTIC	STR	STRAIGHT/ STRUCTURAL		
CO	CLEANOUT	LL	LIVE LOAD	LL	LIVE LOAD	PLT	PLANT	SUCT	SUCTION		
COL	COLUMN	LLV	LONG LEG HORIZONTAL	LLV	LONG LEG HORIZONTAL	PLWD	PLYWOOD	SV	SOLENOID VALVE		
COMP	COMPRESSOR	LOC	LOCATION	LOC	LOCATION	PM	PRESSED METAL	SW	SIDEWALK		
CONC	CONCRETE/ CONCENTRIC	LOL	LAYOUT LINE	LOL	LAYOUT LINE	PNEU	PNEUMATIC	SWD	SIDEWALK DRAIN		
COND	CONDENSER/ CONDENSATE	LONG	LONGITUDINAL	LONG	LONGITUDINAL			SWGR	SWITCHGEAR		
CONN	CONNECTION							SWR	SIDEWALL REGISTER		
CONSTR	CONSTRUCT/ CONSTRUCTION										
CONT	CONTINUED/ CONTINUOUS										
CONTR	CONTRACTOR										
COORD	COORDINATE										
COR	CORNER										
COTG	CLEANOUT TO GRADE										



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

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



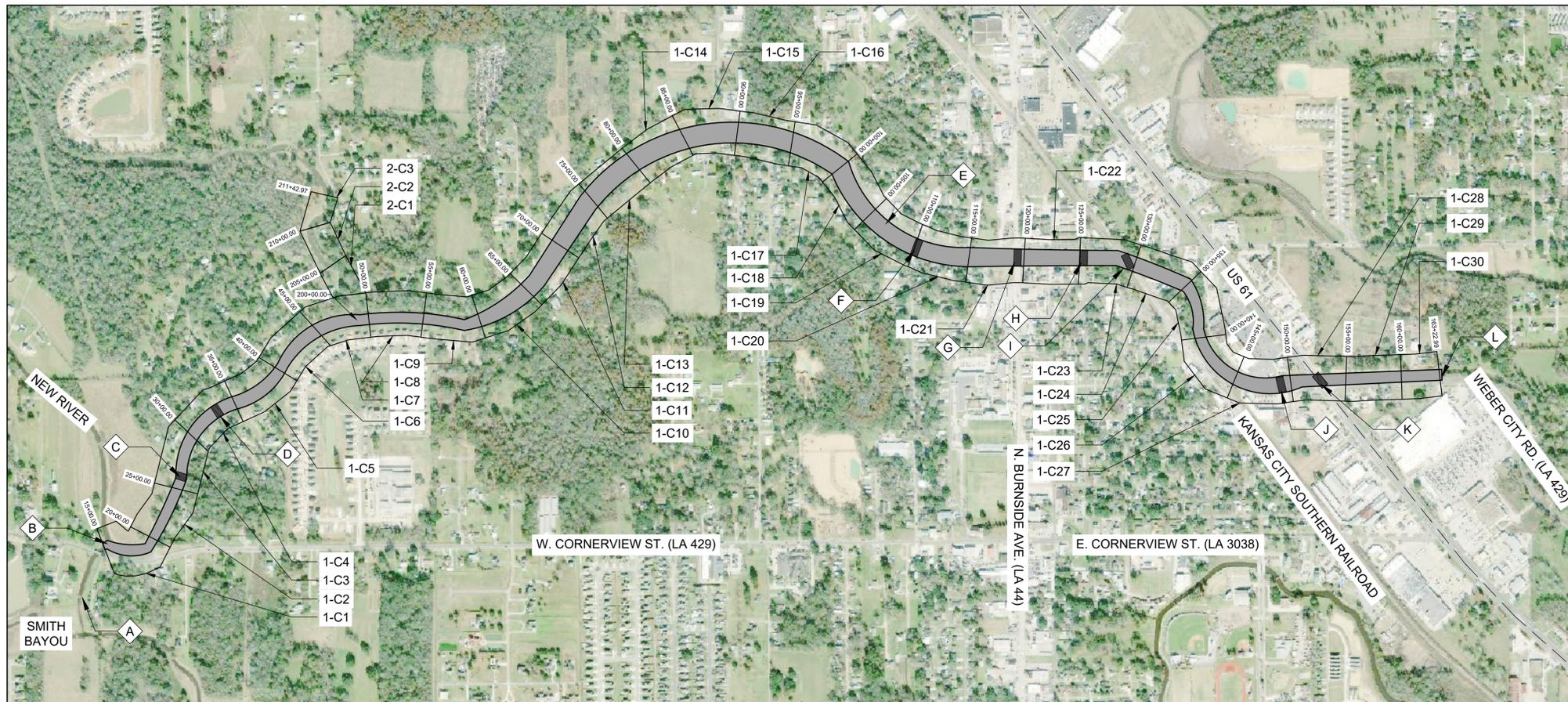
DESIGNED BY:	DAM/ARF	DRAWN BY:	ARF/RMM	CHECKED BY:	DAM
DATE:	APRIL, 2019	DATE:	07/2021	DATE:	2017-14
DESCRIPTION:	NEW RIVER CHANNEL IMPROVEMENTS	DESCRIPTION:	LOUISIANA CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1	DESCRIPTION:	42077 CHURCHPOINT ROAD, GONZALES, LA 70737
MARK:		MARK:		MARK:	

RELEASED FOR BIDS & CONSTRUCTION

REVISION RECORD

FUNCTION	PIPING MATERIALS (SEE SCH AT 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	BLACK
CLS	CHLORINE SOLUTION	16	16	16	16	125	WATER	(A)	YELLOW	YELLOW	BLACK
CLV	CHLORINE GAS UNDER VACUUM	16	16	16	16	15 IN Hg	VACUUM	(A)(E)	YELLOW	YELLOW	BLACK
CN	CENTRATE	--	26	--	26	50	WATER	(A)	NOTE 17	GREEN	WHITE
CS	CAUSTIC SODA	6	6	6	6	125	WATER	(A)	YELLOW	YELLOW	BLACK
CSL	CIRCULATED SLUDGE	--	30	--	30	50	WATER	(A)	BROWN	YELLOW	BLACK
CV	CHLORINATOR VENT AND DETECTION LINE	16	16	16	16	NOTE 8	--	--	YELLOW	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)	BROWN	YELLOW	BLACK
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
EWR	ENGINE COOLING WATER RETURN	1*	1*	1	1	125	WATER	(A)	NOTE 17	GREEN	WHITE
EWS	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	YELLOW	BLACK
FE	FINAL EFFLUENT	--	8	--	8	50	WATER	(A)	NOTE 17	GREEN	WHITE
FIW	FINISHED WATER	16	11	16	11,32	25	WATER	(A)	BLUE	BLUE	WHITE
FLW	FILTERED WATER	16	11	16	11,32	25	WATER	(A)	AQUA	AQUA	WHITE
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	--	RED	RED	WHITE
G	GRIT	--	26	--	26	50	WATER	(A)	BROWN	YELLOW	BLACK
H	HYPOCHLORITE	16	16	16	16	125	WATER	(A)	NOTE 17	YELLOW	BLACK
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)	GREEN	BLUE	WHITE
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)	ORANGE	YELLOW	BLACK
LO	LUBE OIL	9	9	9	9	125	AIR	(A)(D)	RED	YELLOW	BLACK
LPG	LIQUEFIED PETROLEUM GAS	3	3	3	3	NOTE 7	AIR	--	RED	YELLOW	BLACK
LS	LIME SLURRY	NOTE 15	NOTE 15	NOTE 15	NOTE 15	NOTE 8	--	--	LIGHT GREEN	YELLOW	BLACK
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)	BROWN	YELLOW	BLACK
MG	NATURAL GAS	9	9	9	9	NOTE 7	AIR	--	RED	YELLOW	BLACK
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)	GREEN	BLUE	WHITE
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)	GREEN	GREEN	WHITE
PEC	POLYMER - CATIONIC	16	16	16	16	125	WATER	(A)	GREEN	GREEN	WHITE
PEF	PRIMARY EFFLUENT	--	8,26	--	8,26	25	WATER	(B)	NOTE 17	YELLOW	BLACK
PEN	POLYMER - NONIONIC	16	16	16	16	125	WATER	(A)	GREEN	GREEN	WHITE
PI	PLANT INFILUENT	--	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)	AQUA	YELLOW	BLACK
PW	POTABLE WATER	2,24	2	2,24	2,11,19	125	WATER	2,11,24(A) 19(B)	BLUE	GREEN	WHITE
RAS	RETURN ACTIVATED SLUDGE	--	26	--	26	50	WATER	(A)	BROWN	YELLOW	BLACK
REW	RECLAIMED WATER	--	8	--	8	75	WATER	(A)	PURPLE	PURPLE	WHITE
RSL	RAW SLUDGE	--	30	--	30	50	WATER	(A)	BROWN	YELLOW	BLACK
RW	RAW WATER	2	8	2	8,28	125	WATER	2,8(A) 28(B)	GREEN	GREEN	WHITE
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	--	--	BLACK	YELLOW	BLACK
SDR	STORM DRAIN	--	8	--	22,28	NOTE 6	WATER	8,(A)28(B)22(C)	BLACK	GREEN	WHITE
SE	SECONDARY EFFLUENT	--	8,26	--	8,26	50	WATER	(A)	NOTE 17	YELLOW	BLACK
SF	SLUDGE FILTRATE	--	26	--	26	50	WATER	(A)	BROWN	YELLOW	BLACK
SG	SLUDGE GAS	31	31	31	31	15	AIR	(A)(D)	BROWN	YELLOW	BLACK
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)	YELLOW	RED	BLACK
SOS	SULFUR DIOXIDE SOLUTION	16	16	16	16	125	WATER	(A)	LIGHT GREEN	YELLOW	BLACK
SOV	SULFUR DIOXIDE GAS UNDER VACUUM	16	16	16	16	15 IN Hg	VACUUM	(A)(E)	LIGHT GREEN	YELLOW	BLACK
SPD	SUMP PUMP DISCHARGE	2	26	2	26	50	WATER	(A)	NOTE 17	GREEN	WHITE
SS	SANITARY SEWER	--	12	--	12,21	NOTE 7	00	--	BLACK	YELLOW	BLACK
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)	BROWN	YELLOW	BLACK
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)	PURPLE	YELLOW	BLACK
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)	BROWN	YELLOW	BLACK
WLO	WASTE LUBE OIL	9	9	9	9	50	AIR	(A)(D)	RED	YELLOW	BLACK
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 CPLG, FLGD 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 D2996, 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 C76, 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 1/2" 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 1/2" 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 FITTINGS	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, AASHTO M196, RUBBER GASKETED JOINTS WITH COUPLING BANDS	--
39	CORRUGATED ALUMINUM PIPE AND PIPE ARCH PER AASHTO M196, RUBBER GASKETED JOINTS WITH COUPLING BANDS	--
40	REINFORCED PRECAST CONCRETE BOX CULVERT PER STRUCTURAL CONCRETE SPECIFICATIONS	--



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 REMAIN)

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:
ANDREW E. COLE
PROJECT MANAGER
LICENSE NO. 27823

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL
LICENSE NO. 27823



MARK	DESCRIPTION	DATE	BY	REVISION RECORD
	RELEASED FOR BIDS & CONSTRUCTION	07/20/21	RM	HDC

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

LOUISIANA
NEW RIVER CHANNEL IMPROVEMENTS
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 **84**

STRUCTURE NUMBER	STATION	SIDE OF C/L	DESCRIPTION	TYPE	15" PLASTIC						CATCH BASINS		BEDDING MATERIAL (6" THICK)			
					15" PLASTIC LIN. FT.	18" PLASTIC LIN. FT.	24" PLASTIC LIN. FT.	36" PLASTIC LIN. FT.	48" PLASTIC LIN. FT.	48" RCP LIN. FT.	CB-01 EACH	CB-02 EACH	36" PLASTIC LIN. FT.	48" RCP LIN. FT.	CUBIC YARDS	
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			34.0									0.6
134	63+98.27	L	STORM DRAIN PIPE, 18"	SDP								1.0				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							16.0					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

- GENERAL NOTES:
- BEDDING AND BACKFILL FOR STORM DRAIN PIPE AND STRUCTURES SHALL BE PER SHEET BM-01.
 - OUTFALL PROTECTION SHALL BE PER SHEET BM-02.
 - DRAINAGE STRUCTURES SHALL BE PER SHEET CB-01 AND SHEET CB-02 RESPECTIVELY.



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

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



REVISION RECORD	
MARK	DESCRIPTION
RM	RELEASED FOR BIDS & CONSTRUCTION
DATE	07/2021
BY	HDC
CHKD	

DESIGNED BY: DAM/ARF

DRAWN BY: AR/RRM

CHECKED BY: DAM

DATE: APRIL, 2019

LOUISIANA

NEW RIVER CHANNEL IMPROVEMENTS

EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1

42077 CHURCHPOINT ROAD, GONZALES, LA 70737

SUMMARY OF DRAINAGE STRUCTURES

SUMMARY OF DRAINAGE STRUCTURES



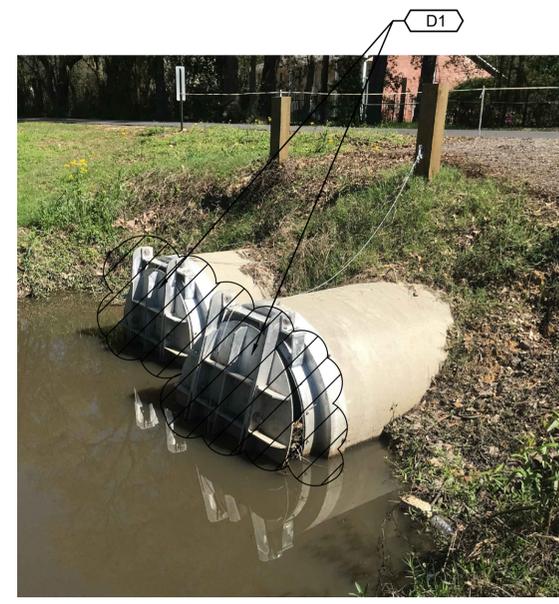
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DEMOLITION PHOTO "D-02"
SCALE: N.T.S.



DEMOLITION PHOTO "D-03"
SCALE: N.T.S.



DEMOLITION PHOTO "D-04"
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** 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.
 - 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.



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

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

LICENSE NO.
27823

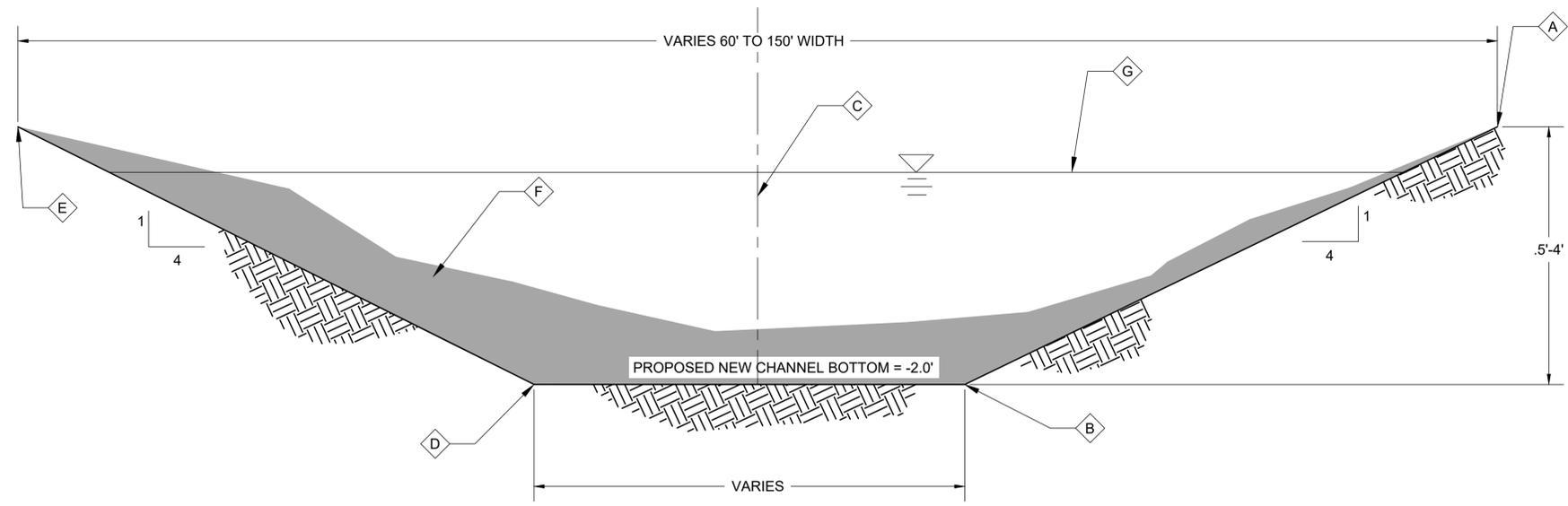


MARK	DATE	DESCRIPTION	BY	CHKD
	07/2021	RELEASED FOR BIDS & CONSTRUCTION	RM	HDC

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 \bar{C} 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(±))



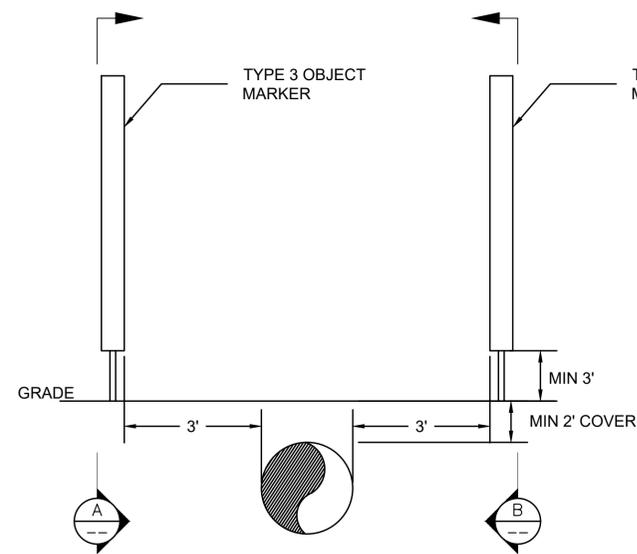
SUBMITTED BY: ANDREW FORD, E.I. PROJECT MANAGER	LICENSE NO. 27823
SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL	LICENSE NO. 27823



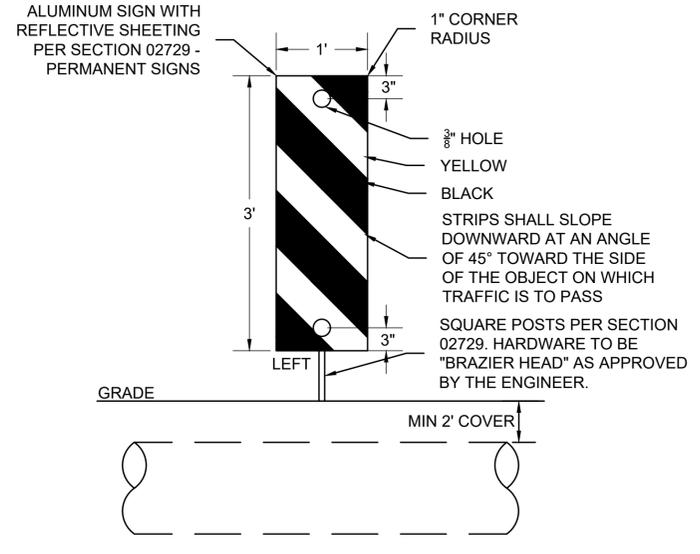
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DESIGNED BY: DAM/ARF	DRAWN BY: ARF/RMM	CHECKED BY: DAM
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LOUISIANA
NEW RIVER CHANNEL IMPROVEMENTS
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
GONZALES
CIVIL DETAILS

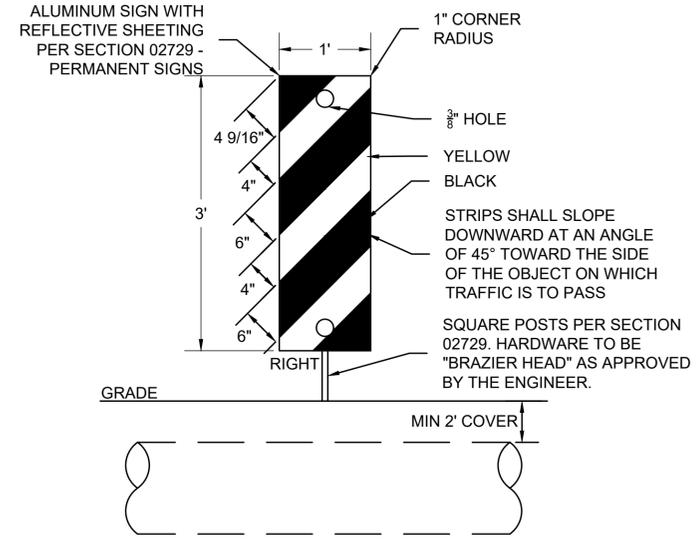


TYPE 3 OBJECT MARKER INSTALLATION



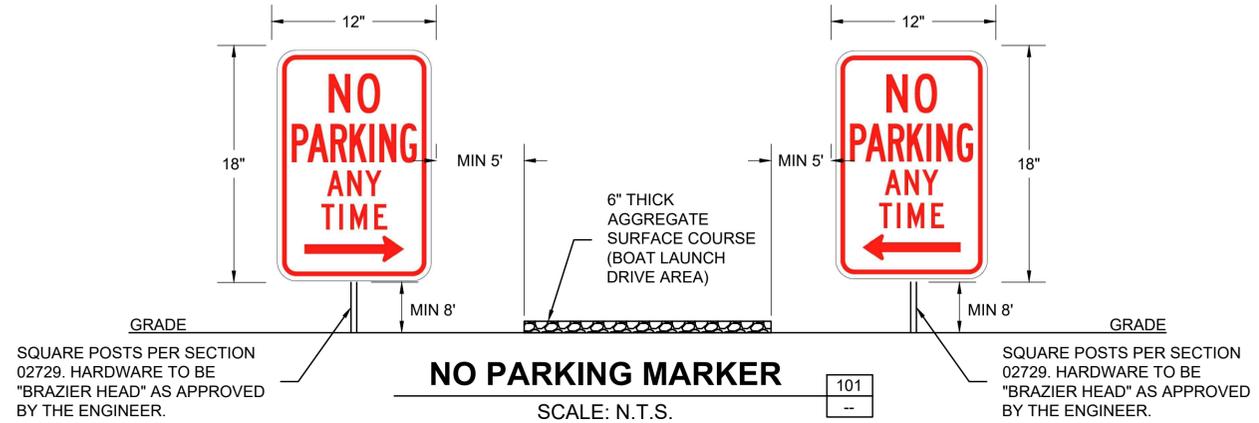
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SCALE: N.T.S.

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



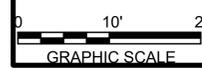
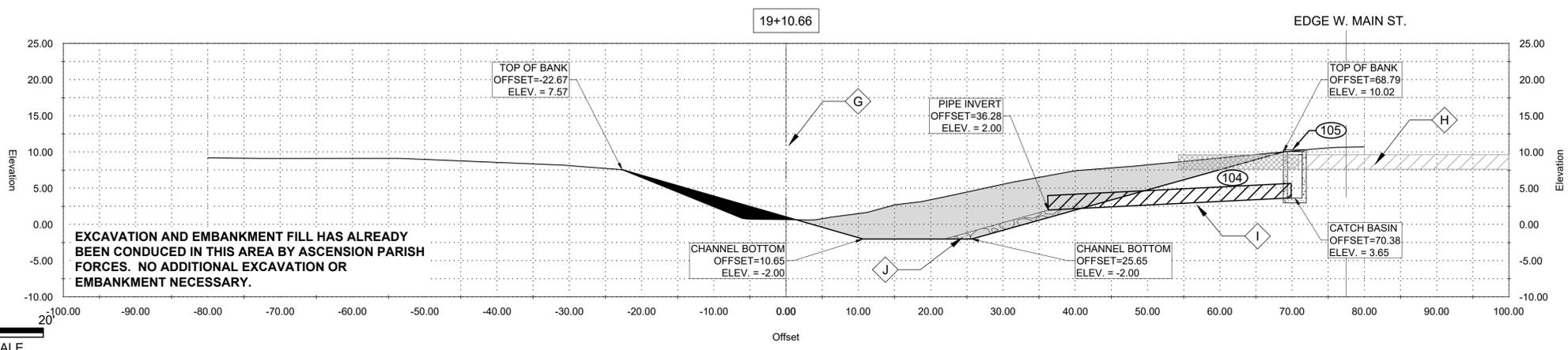
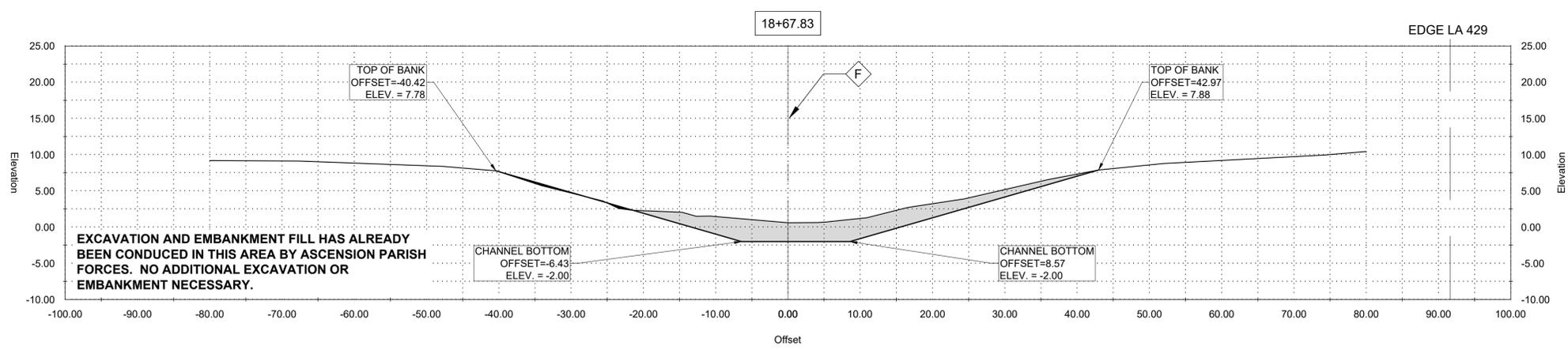
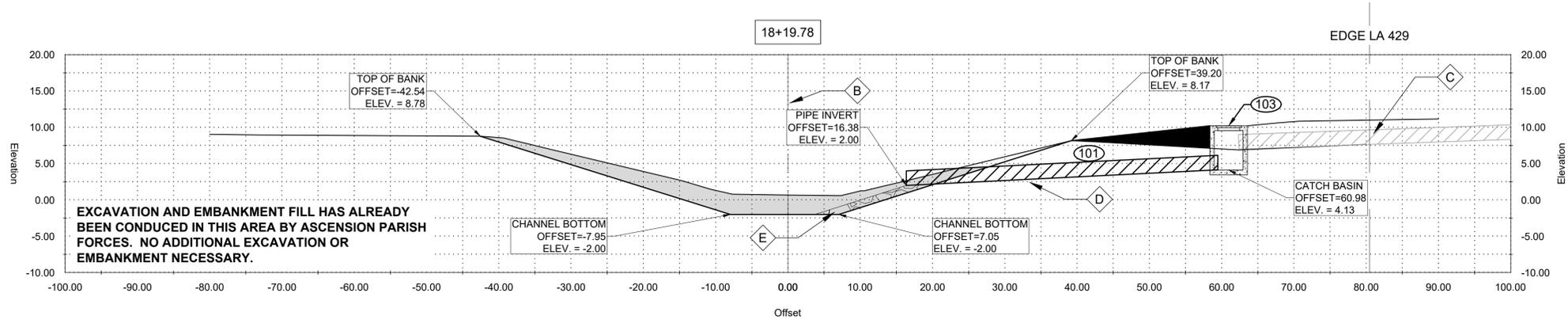
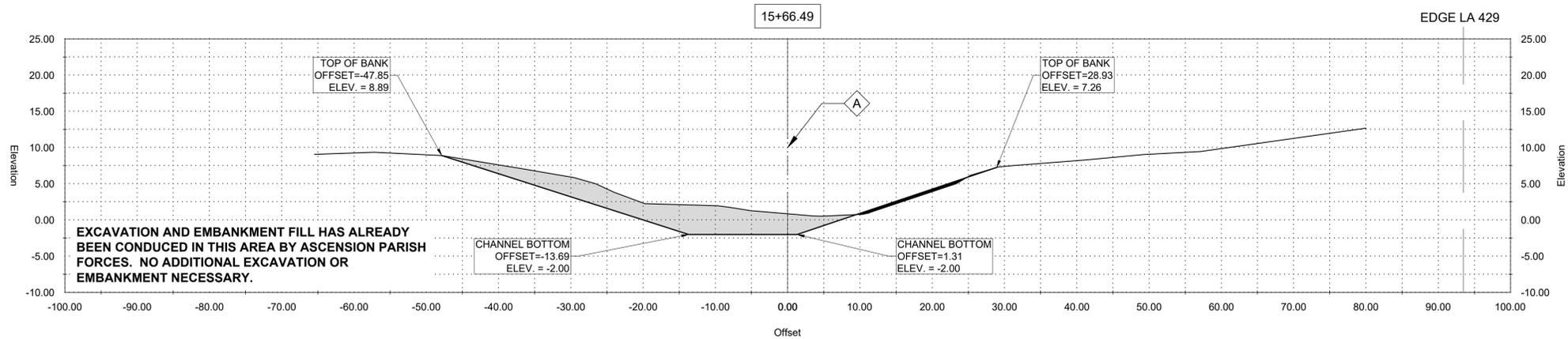
ELEVATION B
SCALE: N.T.S.

- 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.



NO PARKING MARKER
SCALE: N.T.S.

- 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.



GENERAL NOTES:

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

NOTES BY SYMBOL:

CL - SURVEYED CL

AREA DRAINAGE EXCAVATION: 14.81 SY
 AREA EMBANKMENT: 0.54 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

B - SURVEYED CL

C - EXISTING 24" RCPA

D - 24" PLASTIC PIPE EXTENSION [24" SDR (37)]

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 CL
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

F - SURVEYED CL

AREA DRAINAGE EXCAVATION: 12.89 SY
 AREA EMBANKMENT: 0.22 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

G - SURVEYED CL

H - EXISTING 24" RCPA

I - 24" PLASTIC PIPE EXTENSION [24" SDR (37)]

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: ANDREW FORD, E.I. PROJECT MANAGER

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



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/20/21	RM	HDC

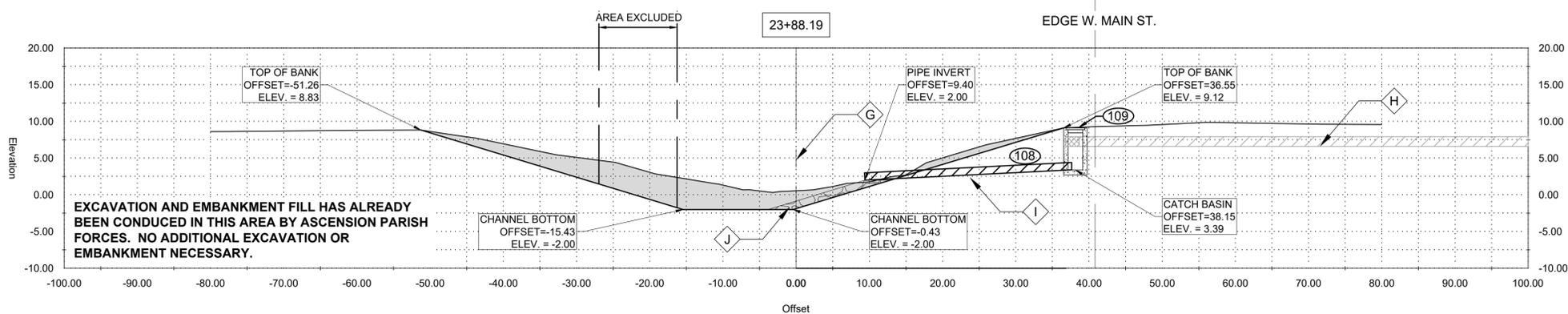
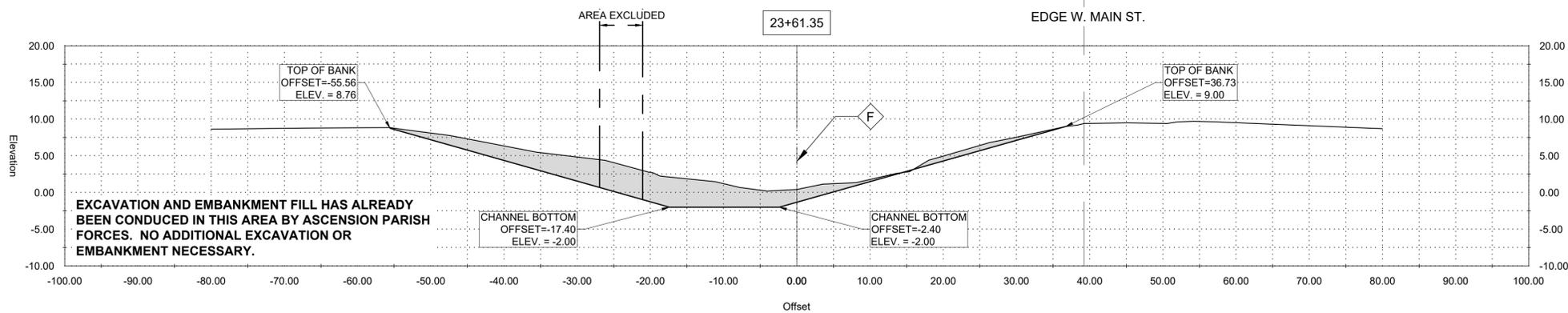
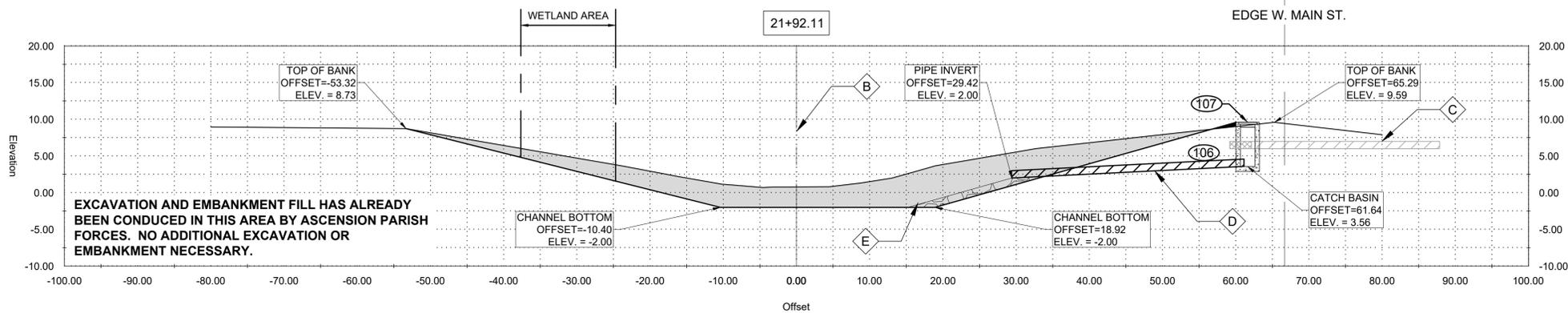
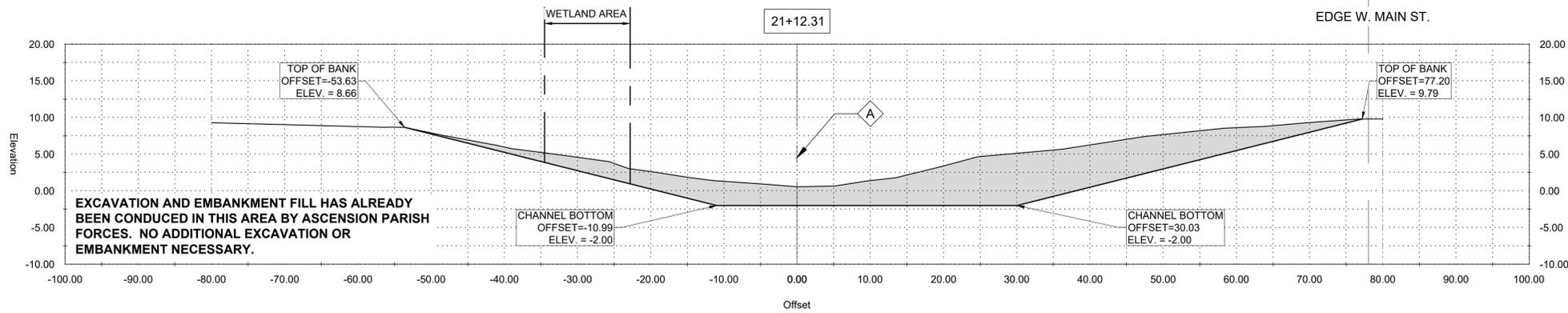
DATE	DESIGNED BY	DRAWN BY	CHECKED BY
APRIL, 2019	DAM/ARF	ARF/RMM	DAM

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

NEW RIVER CHANNEL IMPROVEMENTS

GONZALES

CROSS SECTIONS



GENERAL NOTES:

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

NOTES BY SYMBOL:

- ☒ - SURVEYED ☒

AREA DRAINAGE EXCAVATION: 46.06 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 ☒
- ☒ - EXISTING 12" RCP
- ☒ - 15" PLASTIC PIPE EXTENSION 15" SDR (37)
- ☒ - 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 ☒
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- ☒ - SURVEYED ☒

AREA DRAINAGE EXCAVATION: 18.36 SY
AREA EMBANKMENT: 0.01 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

- ☒ - SURVEYED ☒
- ☒ - EXISTING 12" RCP
- ☒ - 15" PLASTIC PIPE EXTENSION 15" SDR (37)
- ☒ - 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:
ANDREW FORD, E.I.
PROJECT MANAGER

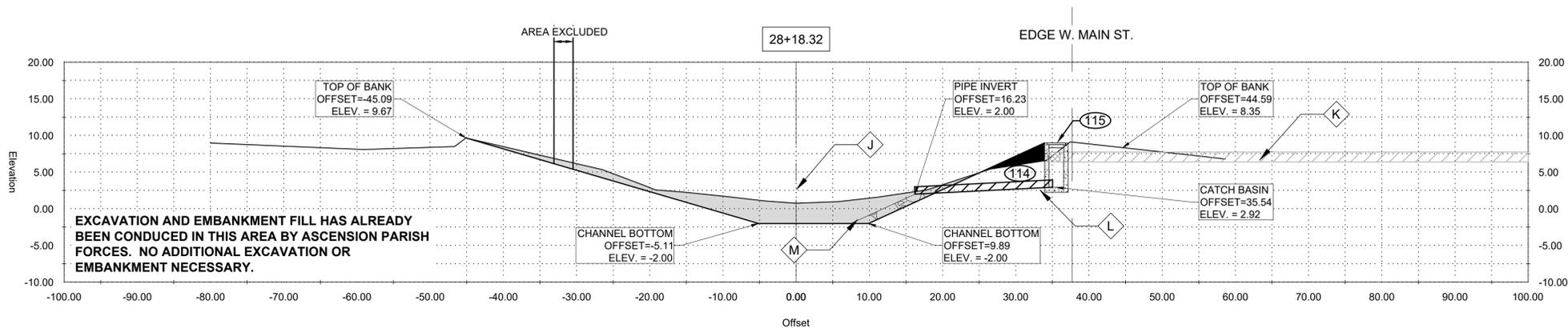
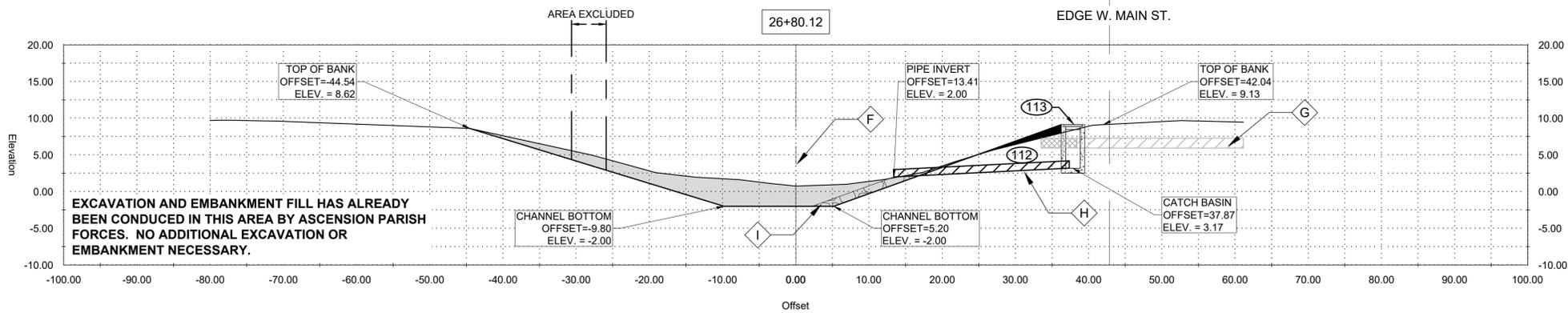
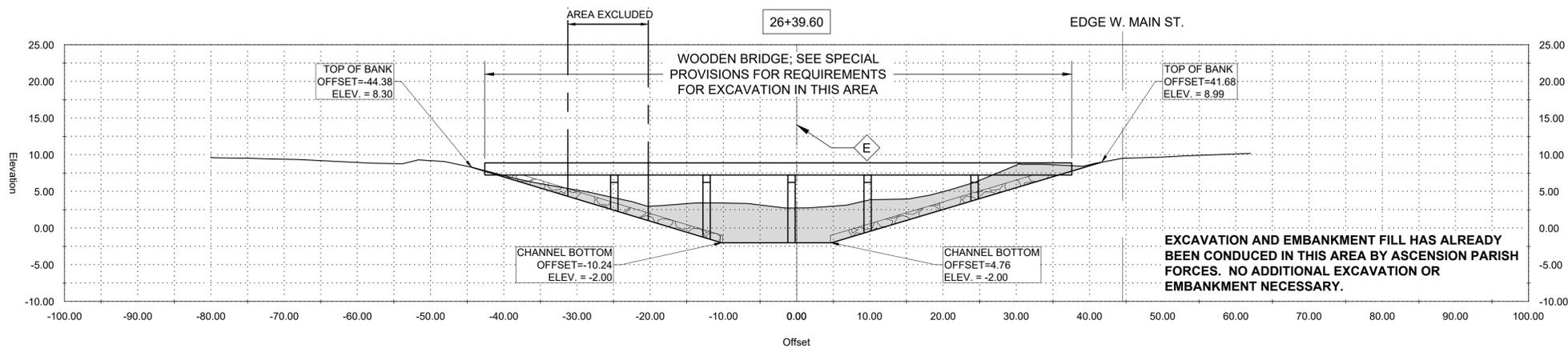
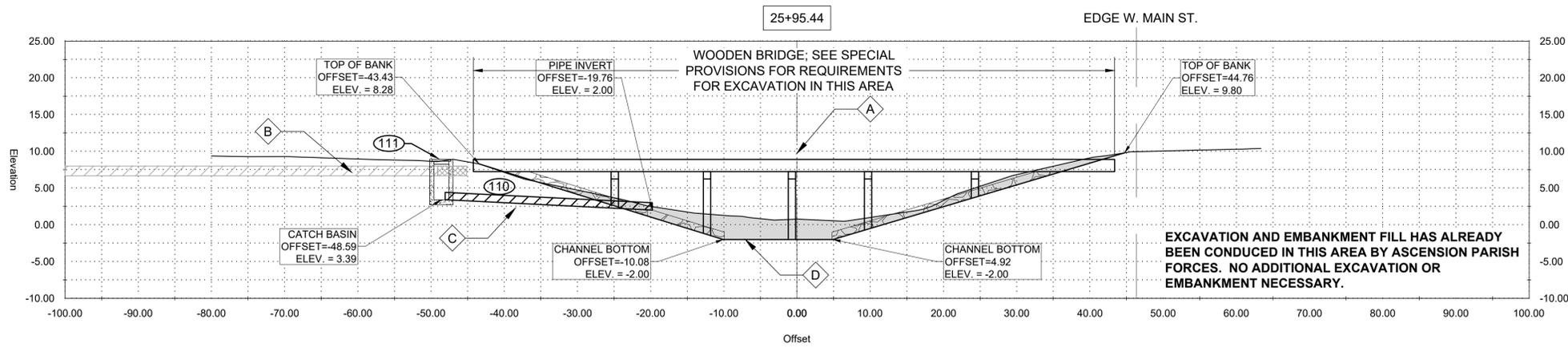
SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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



GENERAL NOTES:

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

NOTES BY SYMBOL:

- ϵ - SURVEYED ϵ
- B - EXISTING 12" RCP
- C - 15" PLASTIC PIPE EXTENSION 15" SDR (37)
- 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 - 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 - SURVEYED ϵ
- G - EXISTING 12" RCP
- H - 15" PLASTIC PIPE EXTENSION 15" SDR (37)
- 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 - SURVEYED ϵ
- K - EXISTING 12" RCP
- L - 15" PLASTIC PIPE EXTENSION 15" SDR (37)
- 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

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

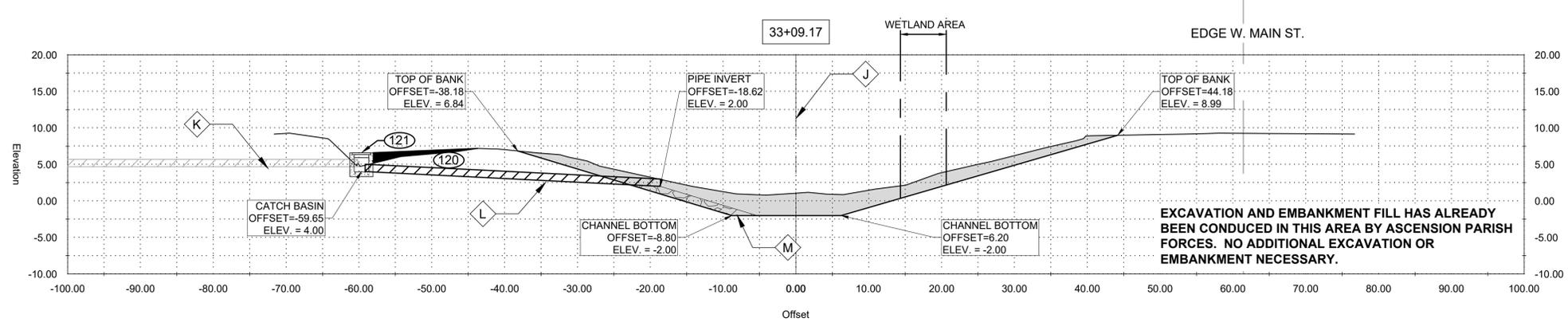
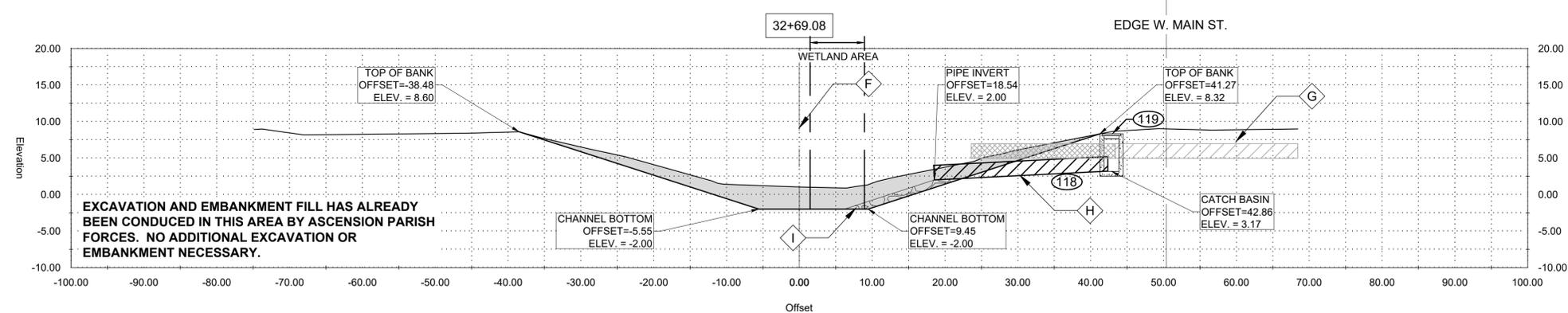
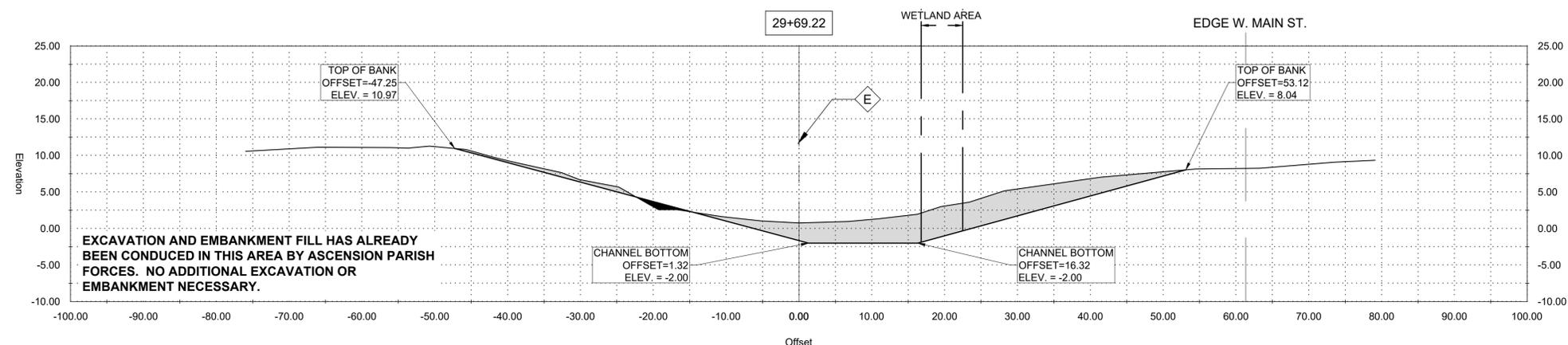
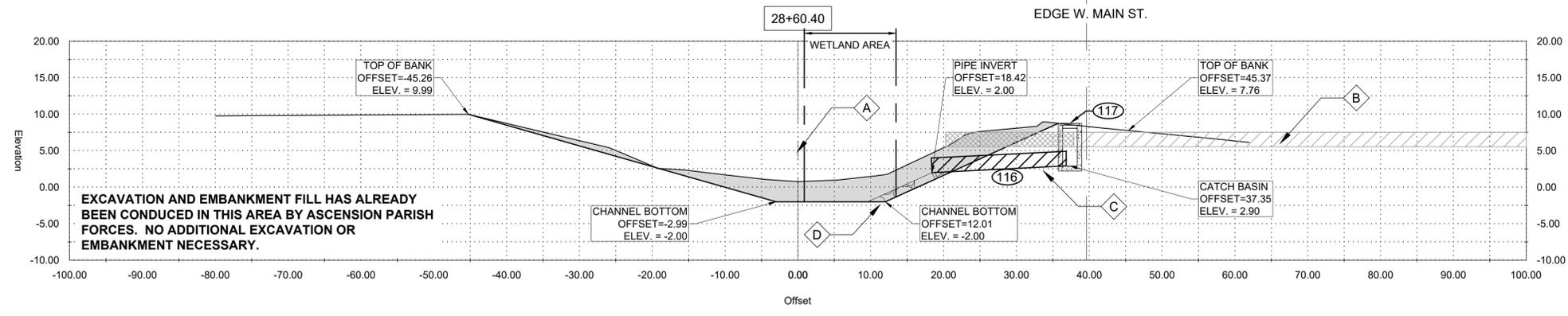


MARK	DESCRIPTION	DATE	BY
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM

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

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

REVISION RECORD



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:
 ANDREW FORD, E.I.
 PROJECT MANAGER

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



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/20/21	RM	HDC

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

LOUISIANA
 NEW RIVER CHANNEL IMPROVEMENTS

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



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

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



MARK	DATE	DESCRIPTION	BY	CHKD
	07/2021	RELEASED FOR BIDS & CONSTRUCTION	RM	HDC

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

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

SHEET ID
C6
SHEET SET
17 OF **84**

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

NOTES BY SYMBOL:
A - SURVEYED CL

AREA DRAINAGE EXCAVATION: 15.99 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:
B - SURVEYED CL

AREA DRAINAGE EXCAVATION: 14.45 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:
C - SURVEYED CL
D - EXISTING 36" CMP
E - 36" PLASTIC PIPE EXTENSION [36" SDR (37)]
F - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 13.35 SY
AREA EMBANKMENT: 0.00 SY

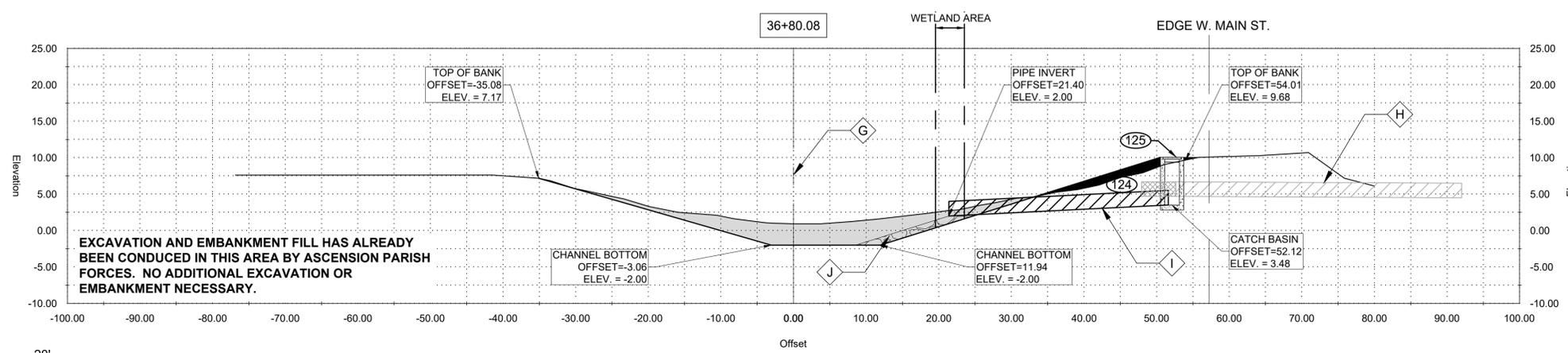
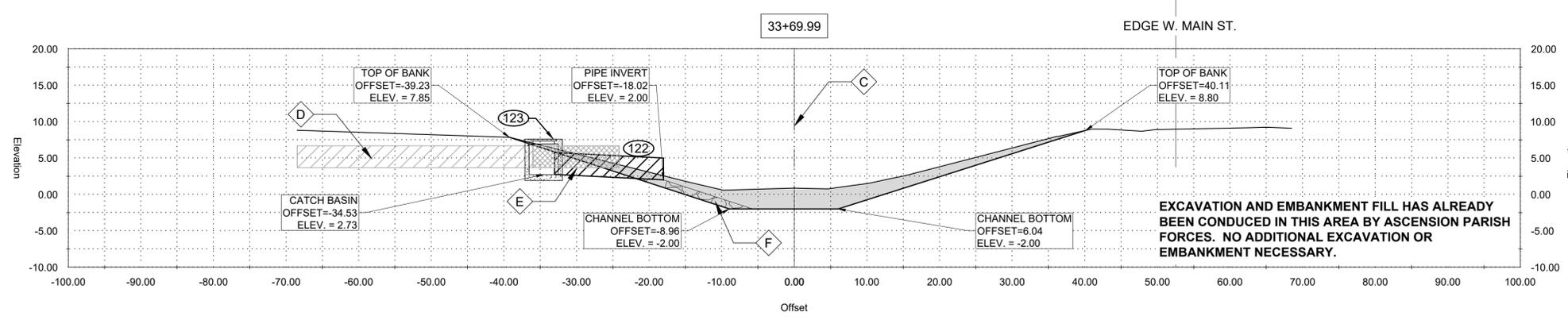
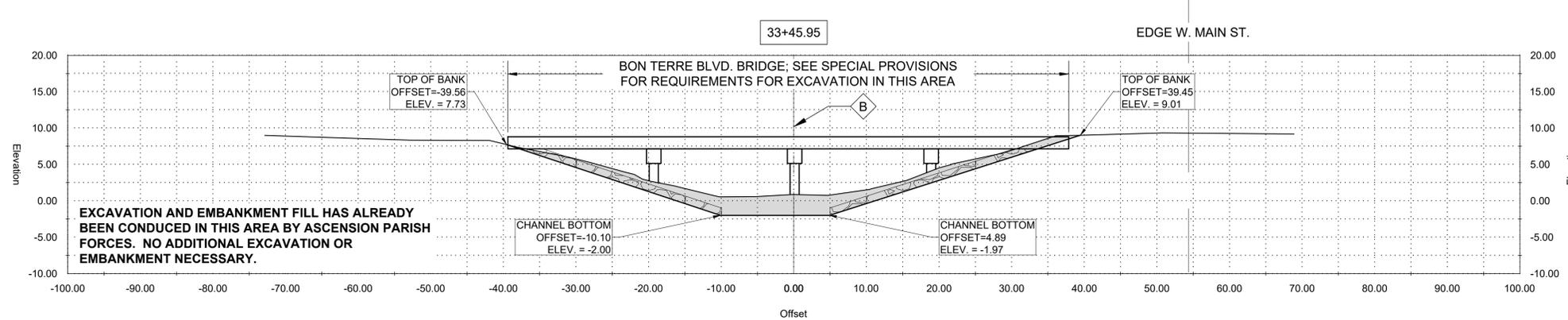
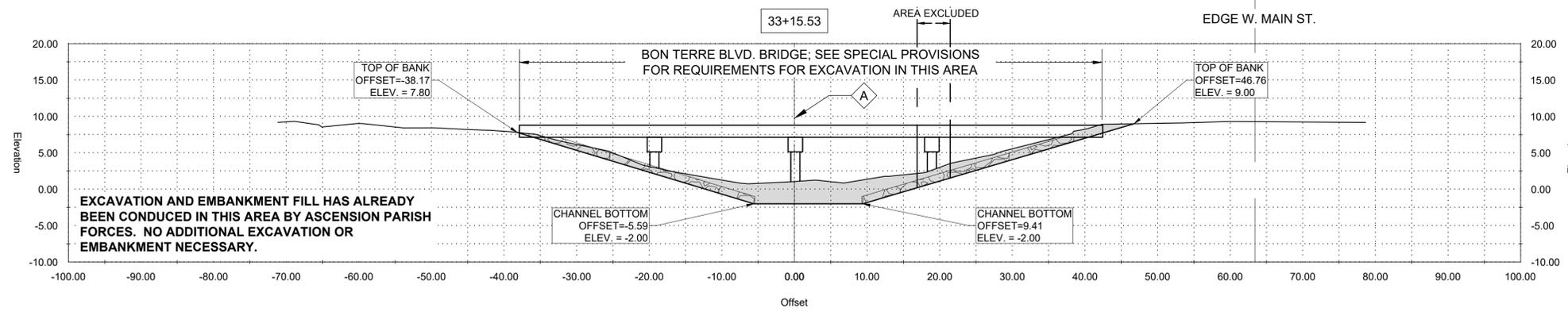
LEGEND:
[Hatched] - EXISTING DRAIN PIPE TO REMAIN
[Cross-hatched] - EXISTING DRAIN PIPE TO BE REMOVED

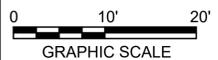
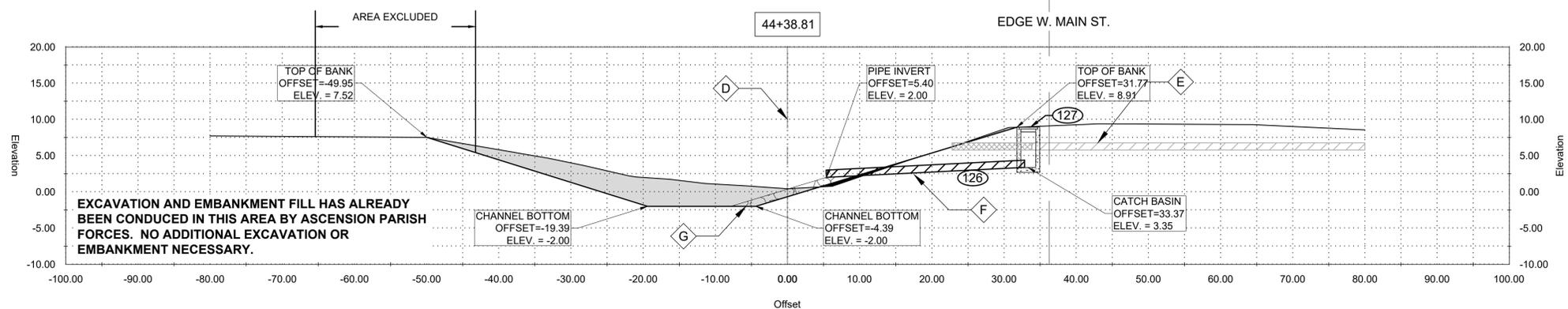
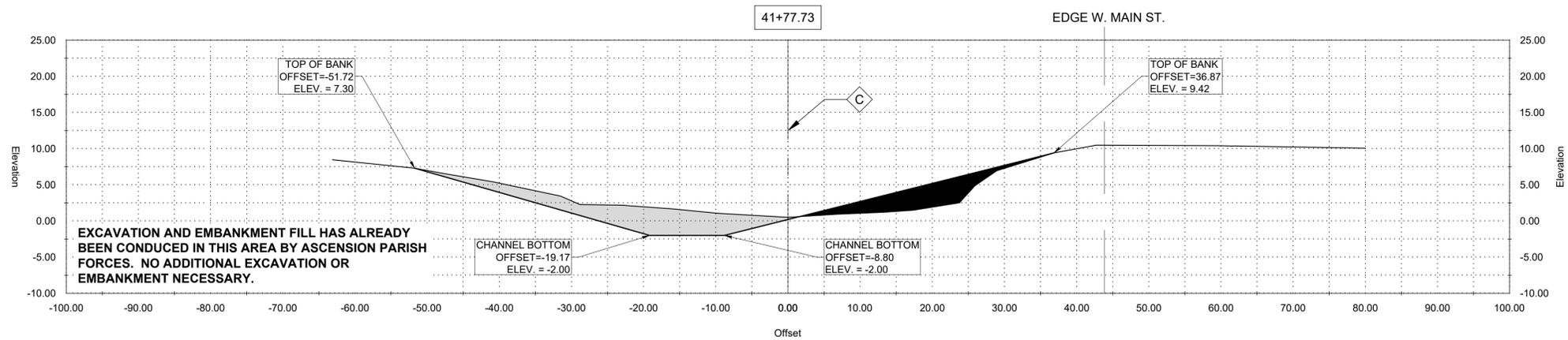
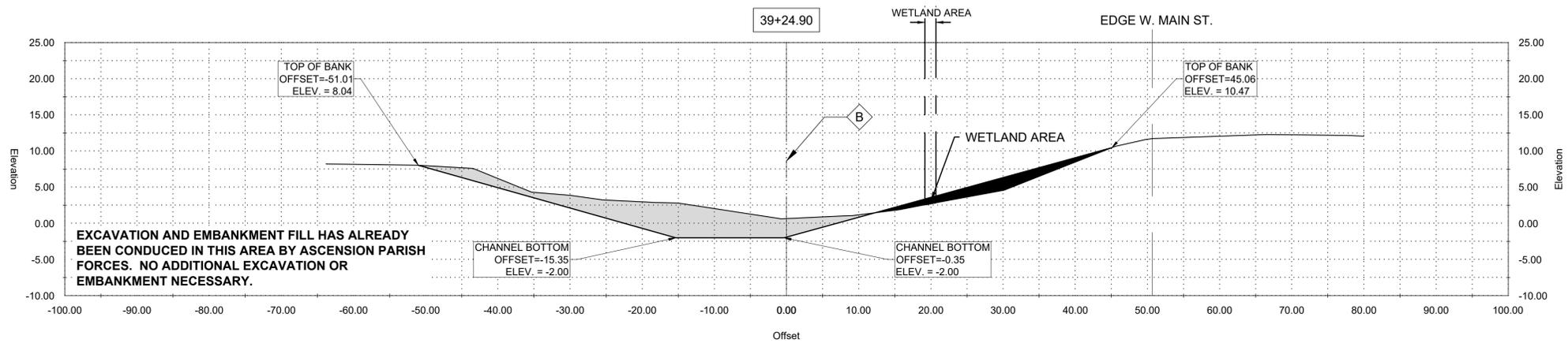
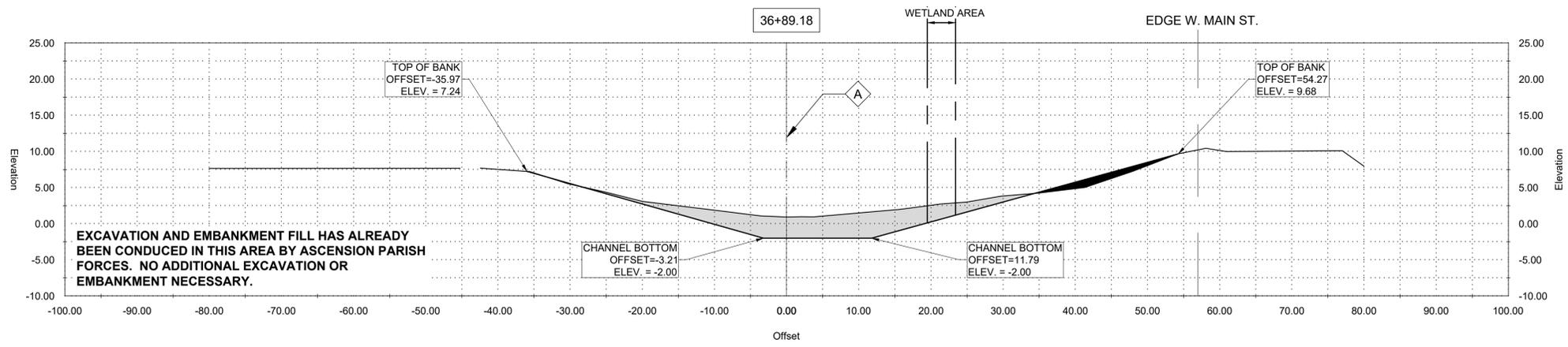
GENERAL NOTES:
1. OFFSETS SHOWN ARE TO SURVEYED CL
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
G - SURVEYED CL
H - EXISTING 24" RCP
I - 24" PLASTIC PIPE EXTENSION [24" SDR (37)]
J - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 13.09 SY
AREA EMBANKMENT: 1.36 SY

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

CL - SURVEYED CL

AREA DRAINAGE EXCAVATION: 12.80 SY
 AREA EMBANKMENT: 1.69 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

CL - SURVEYED CL

AREA DRAINAGE EXCAVATION: 15.52 SY
 AREA EMBANKMENT: 3.39 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

CL - SURVEYED CL

AREA DRAINAGE EXCAVATION: 11.47 SY
 AREA EMBANKMENT: 6.30 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

- CL - SURVEYED CL
- E - EXISTING 12" RCP
- F - 15" PLASTIC PIPE EXTENSION 15" SDR (37)
- 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:
 ANDREW FORD, E.I.
 PROJECT MANAGER

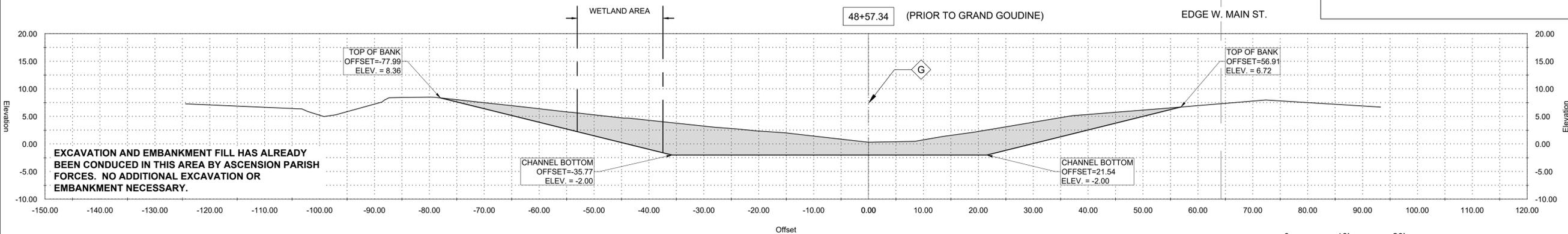
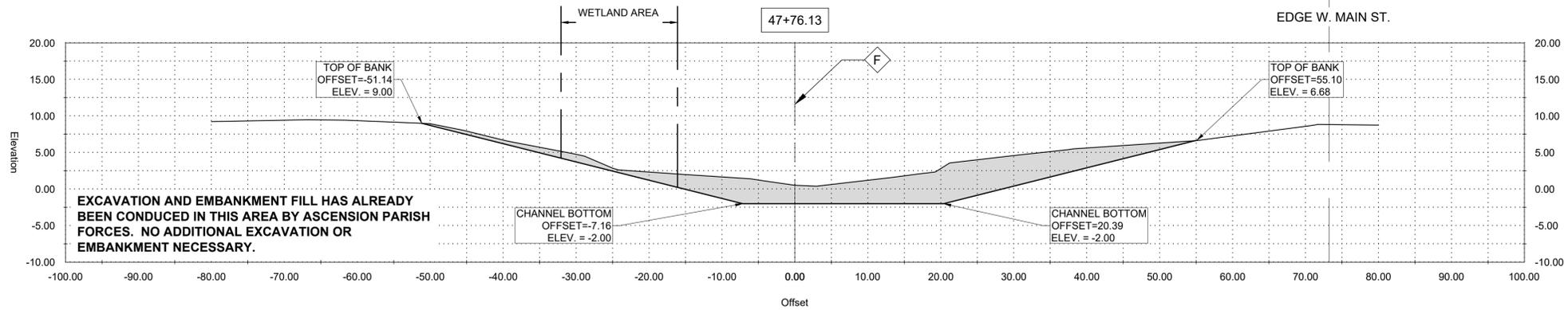
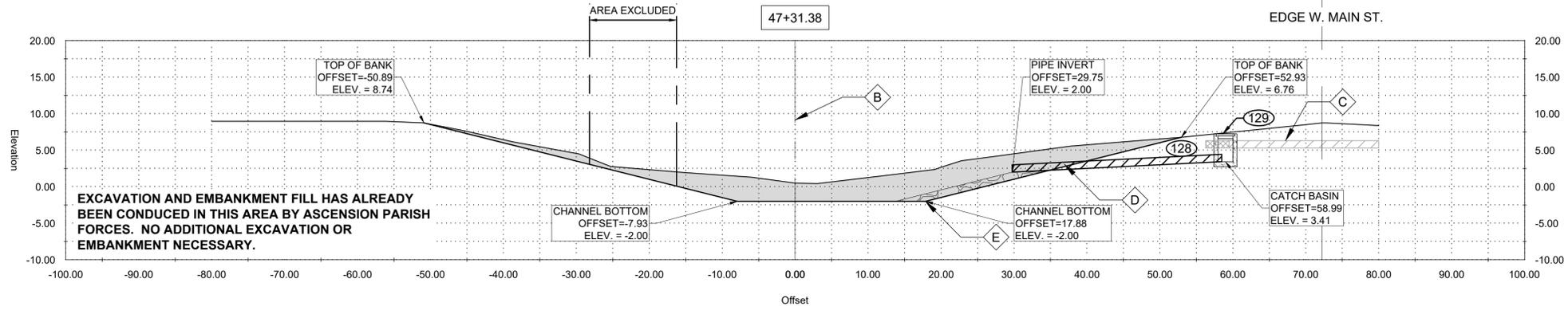
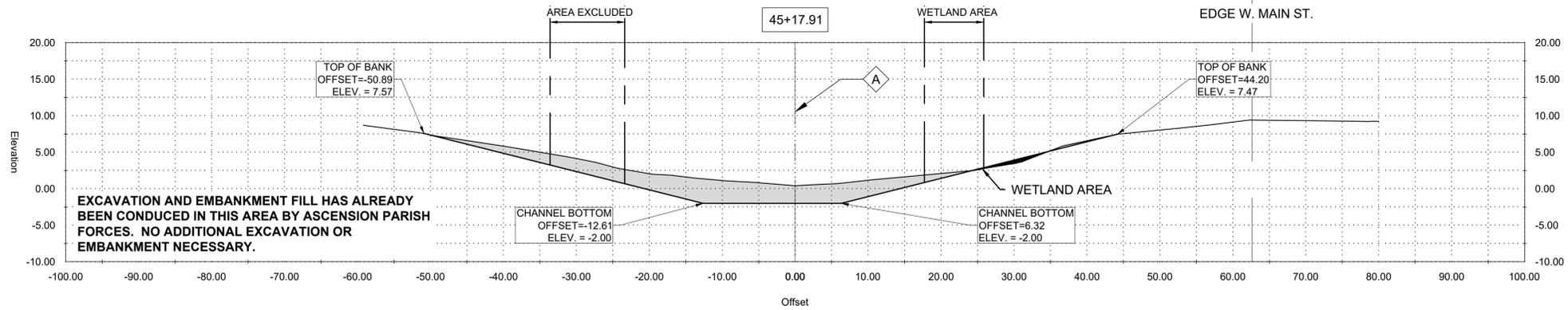
SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/20/21	RM	HDC

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

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



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

NOTES BY SYMBOL:
 A - 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:
 B - SURVEYED CL
 C - EXISTING 12" RCP
 D - 15" PLASTIC PIPE EXTENSION [15" SDR (37)]
 E - 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:
 F - 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:
 G - SURVEYED CL

AREA DRAINAGE EXCAVATION: 47.80 SY
 AREA EMBANKMENT: 0.00 SY



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

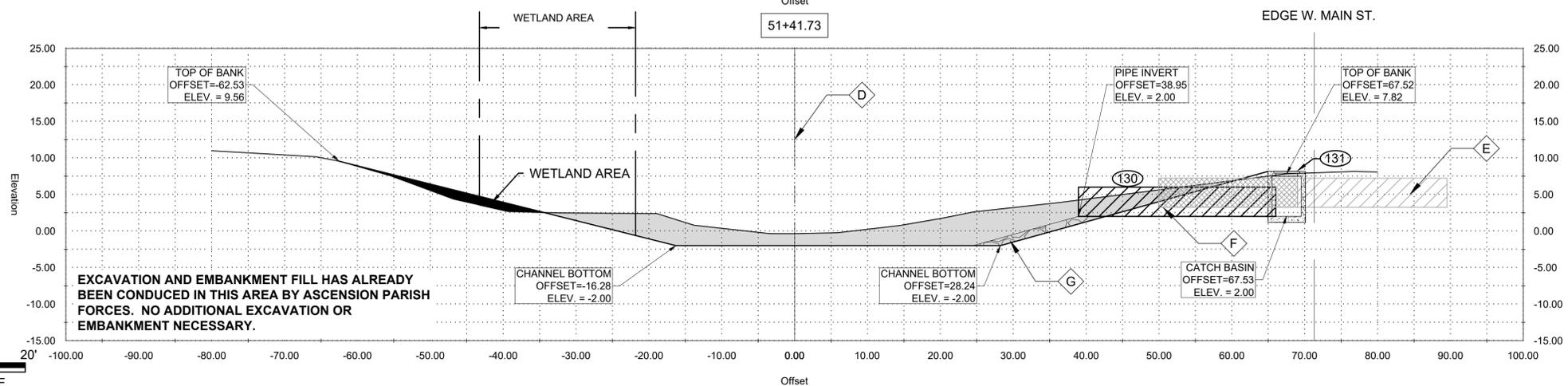
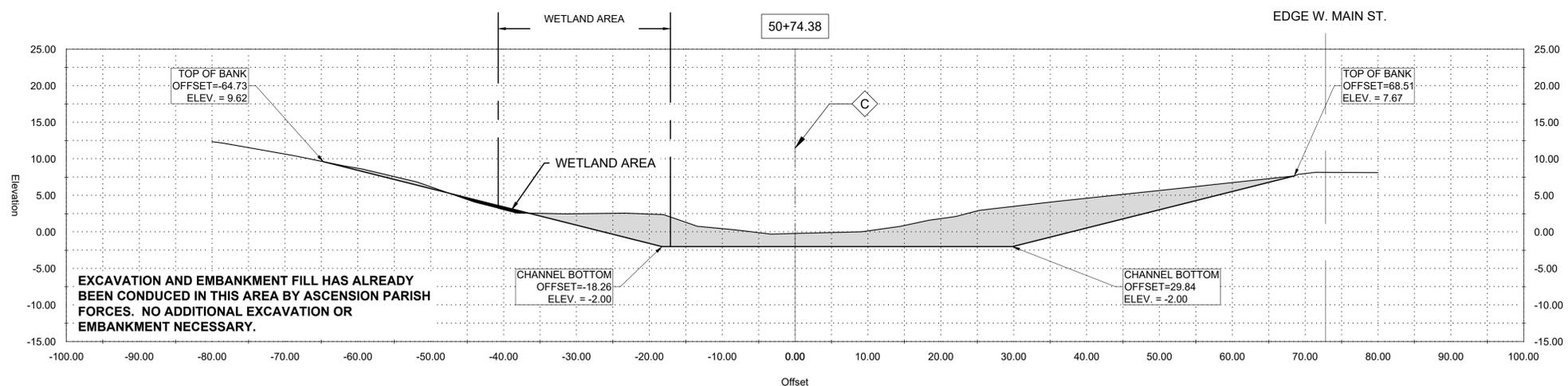
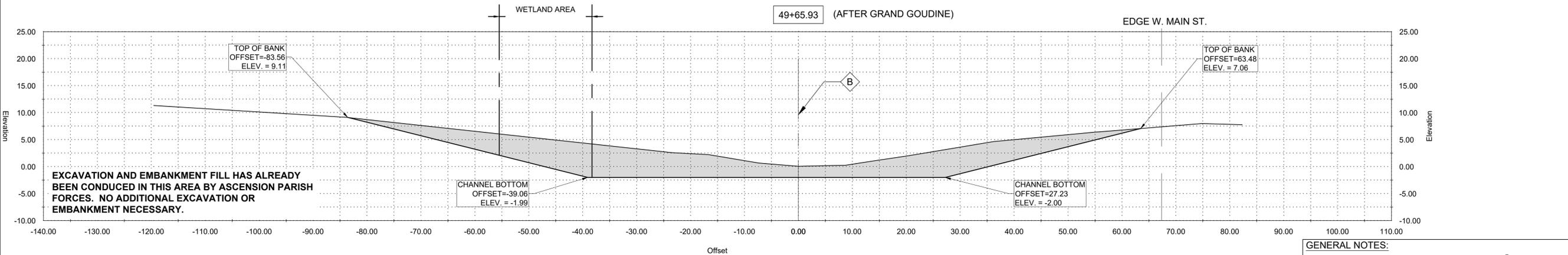
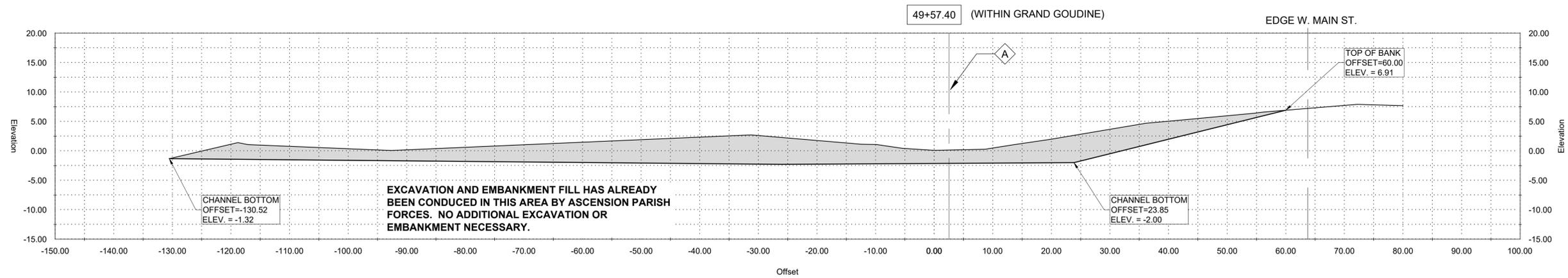
SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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

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



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

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

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

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

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

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

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

NOTES BY SYMBOL:
 ⬡ - SURVEYED ζ
 ⬢ - 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:
 ANDREW FORD, E.I.
 PROJECT MANAGER
 LICENSE NO. 27823

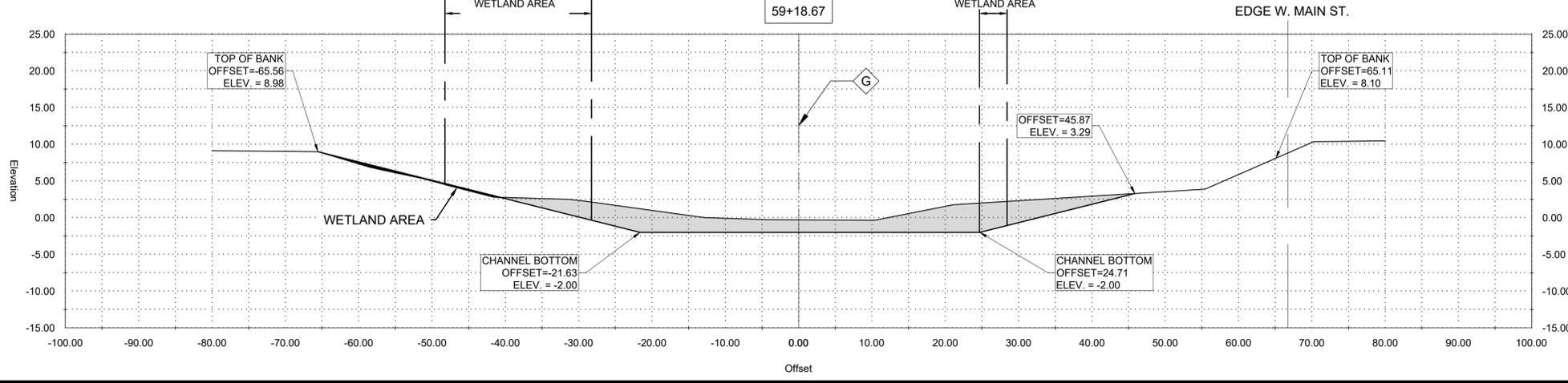
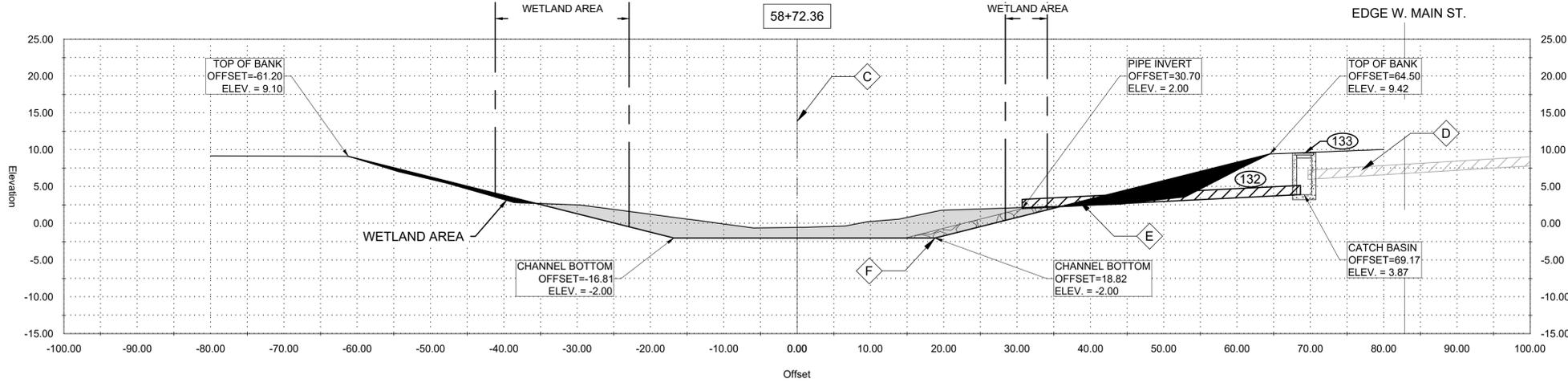
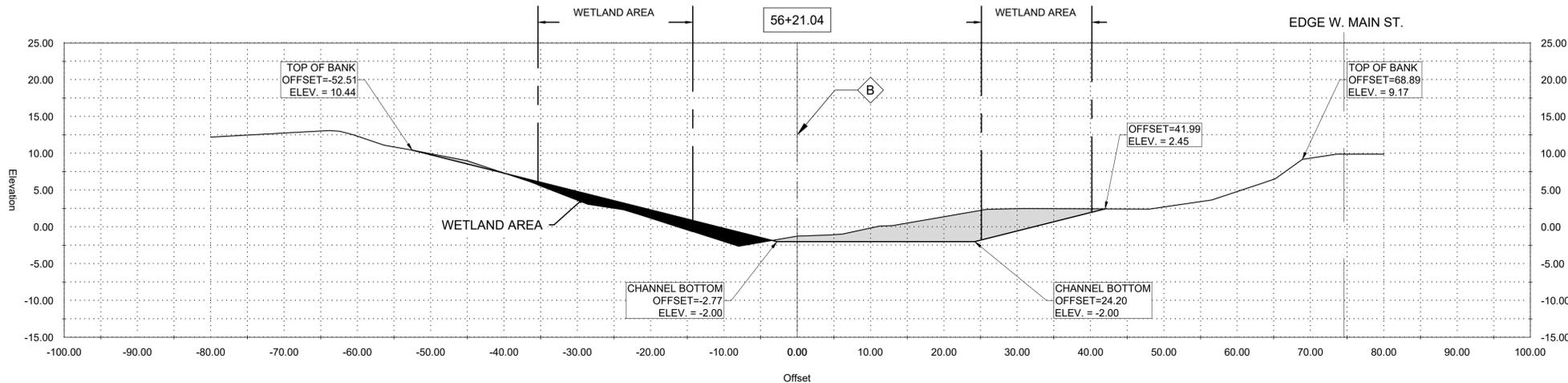
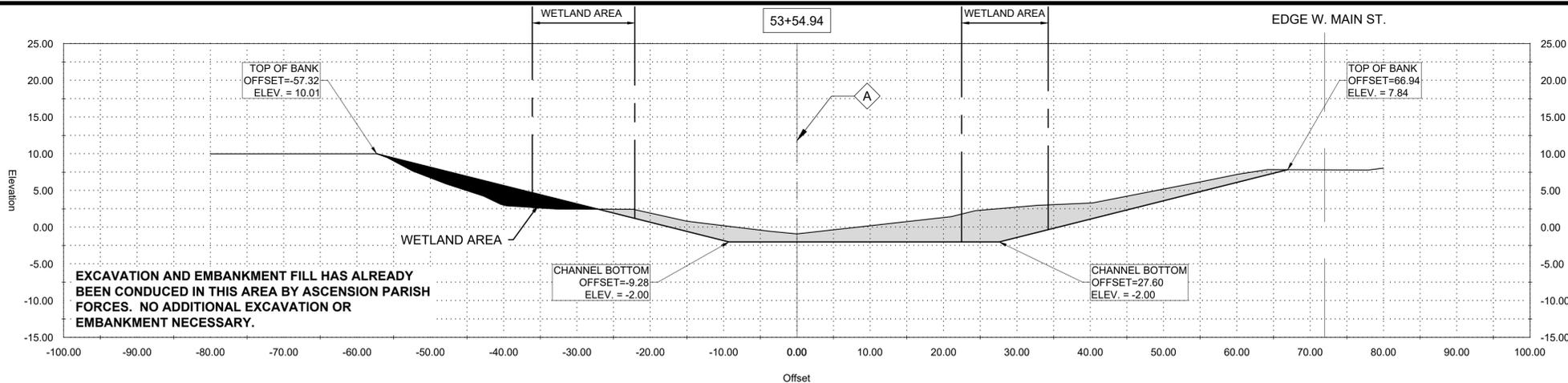
SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 27823



MARK	DESCRIPTION	DATE	BY	CHKD
RM	RELEASED FOR BIDS & CONSTRUCTION	07/20/21	RM	HDC

DESIGNED BY:	DATE:	DRAWN BY:	Detailed By:	DATE:	Checked By:	Project No.:
DAM/ARF	APRIL, 2019	ARF/RMM	ARF/RMM	2017-14	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



GENERAL NOTES:

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

NOTES BY SYMBOL:

CL - SURVEYED CL

AREA DRAINAGE EXCAVATION: 21.21 SY
 AREA EMBANKMENT: 4.90 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

CL - SURVEYED CL

AREA DRAINAGE EXCAVATION: 10.67 SY
 AREA EMBANKMENT: 4.30 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

- CL - SURVEYED CL
- D - EXISTING 12" RCP
- E - 15" PLASTIC PIPE EXTENSION [15" SDR (37)]
- 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 CL
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

CL - SURVEYED CL

AREA DRAINAGE EXCAVATION: 20.50 SY
 AREA EMBANKMENT: 0.47 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	07/20/21	RM	HDC

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

GONZALES
 CROSS SECTIONS



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	07/2021	RM	HDC

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

CROSS SECTIONS

SHEET ID

C11

SHEET SET

22 OF **84**

GENERAL NOTES:

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

NOTES BY SYMBOL:

CL - SURVEYED CL

AREA DRAINAGE EXCAVATION: 29.40 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:

CL - SURVEYED CL

CL - EXISTING 18" RCP

CL - 18" PLASTIC PIPE EXTENSION 18" SDR (37)

CL - 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 CL
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

CL - SURVEYED CL

AREA DRAINAGE EXCAVATION: 39.11 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:

CL - SURVEYED CL

CL - EXISTING 48" RCP

CL - 48" RCP PIPE EXTENSION 48" SDR (22)

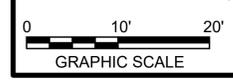
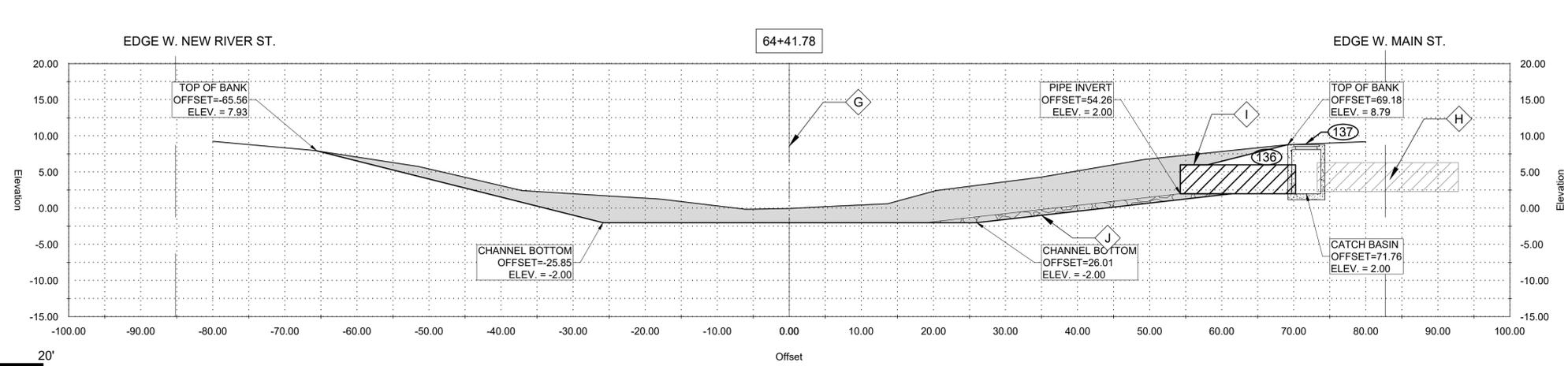
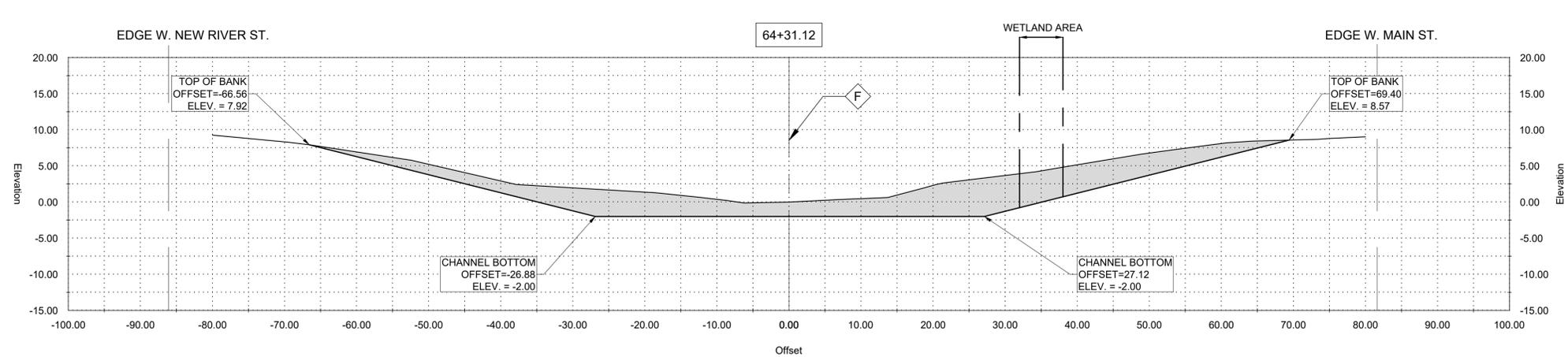
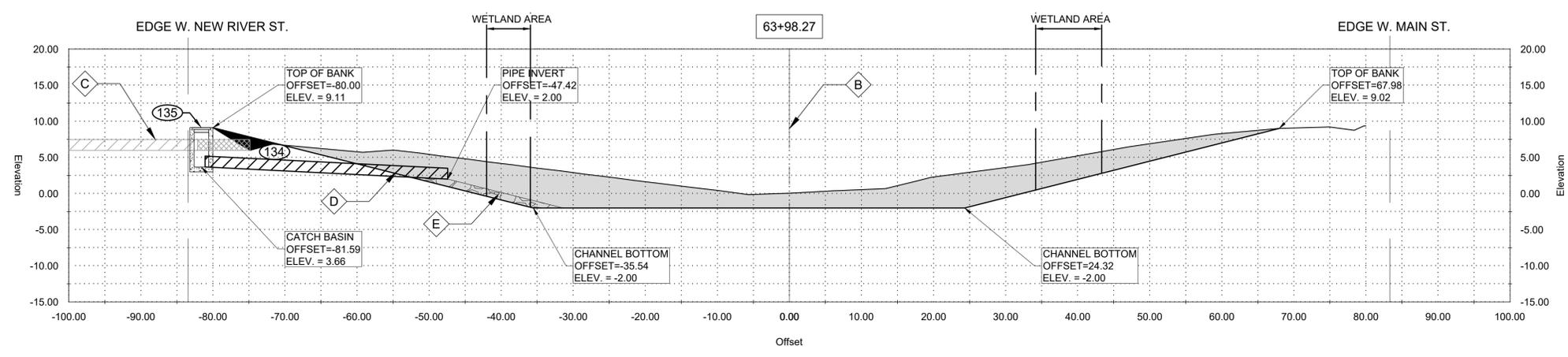
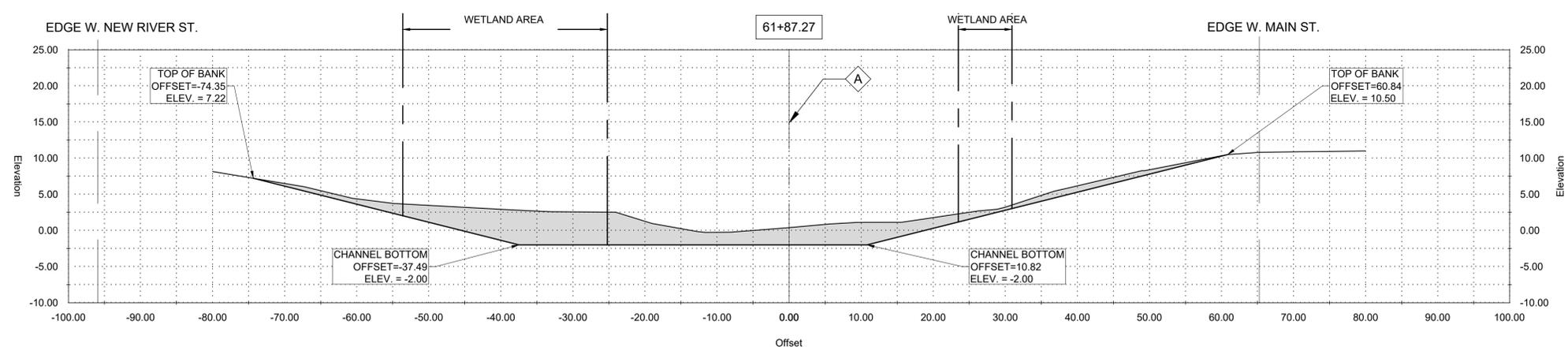
CL - OUTFALL PROTECTION PER SHEET BM-02

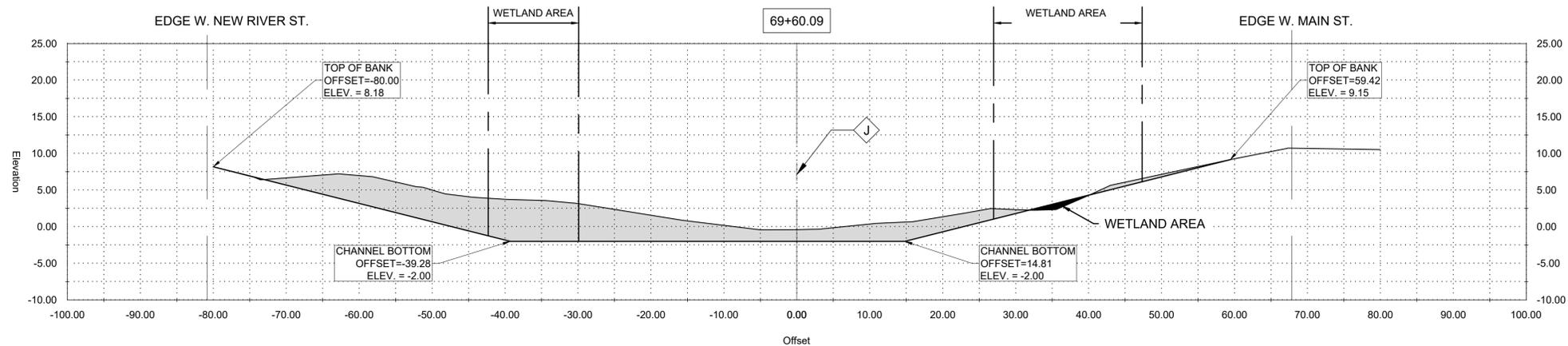
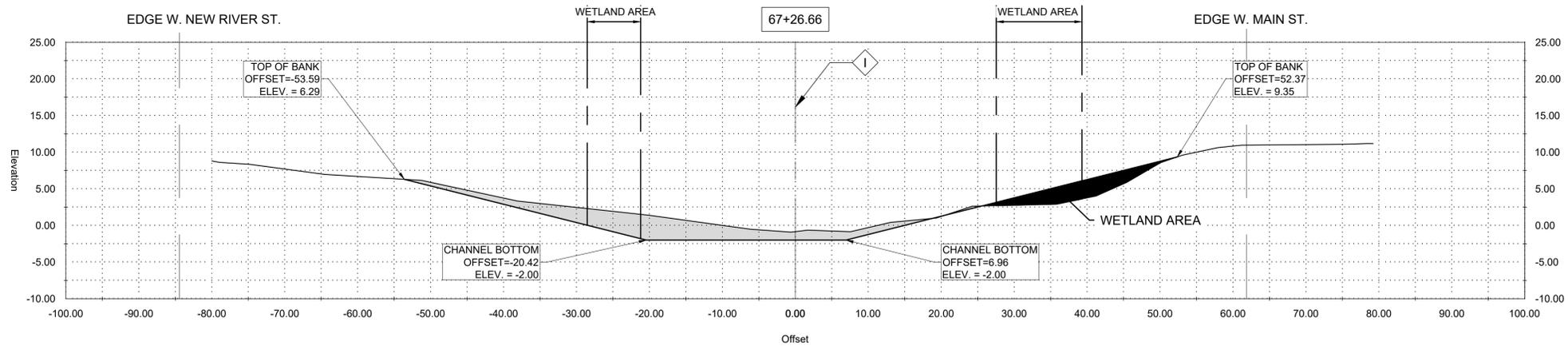
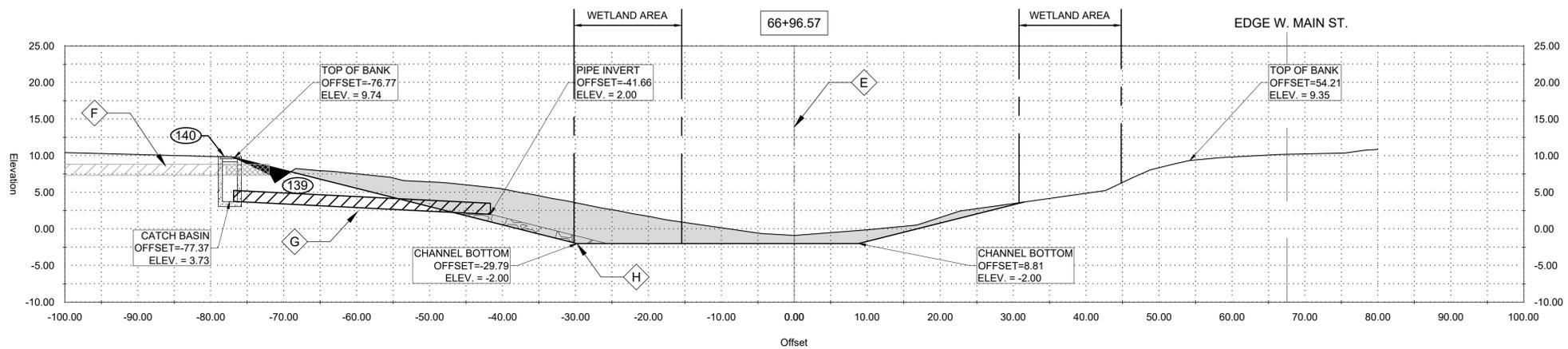
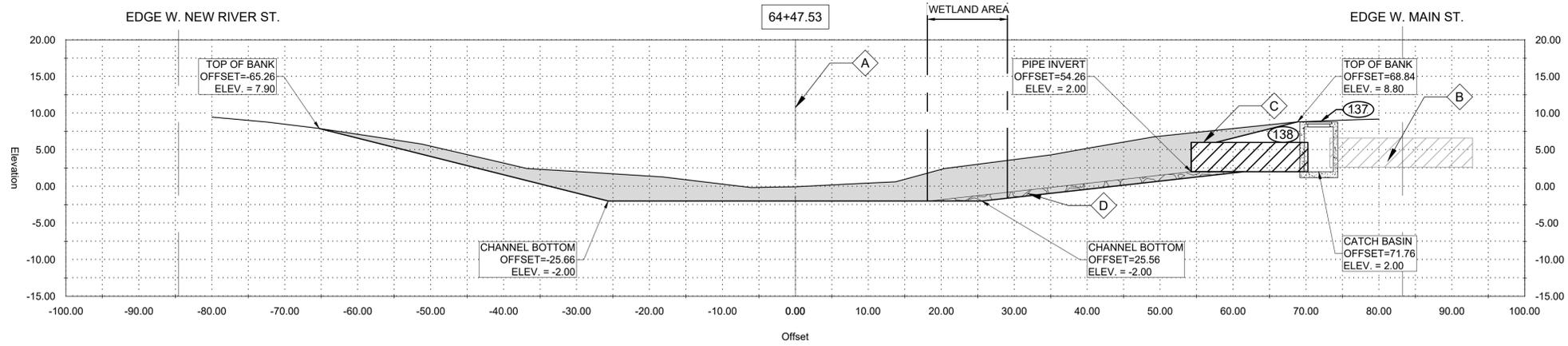
AREA DRAINAGE EXCAVATION: 43.21 SY
AREA EMBANKMENT: 0.00 SY

LEGEND:

- EXISTING DRAIN PIPE TO REMAIN

- EXISTING DRAIN PIPE TO BE REMOVED





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 48" RCP
- ϵ C - 48" RCP PIPE EXTENSION [48" SDR (22)]
- ϵ 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 ϵ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- ϵ E - SURVEYED ϵ
- ϵ F - EXISTING 18" CMP
- ϵ G - 18" PLASTIC PIPE EXTENSION [18" SDR (37)]
- ϵ 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 ϵ
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- ϵ I - SURVEYED ϵ

AREA DRAINAGE EXCAVATION: 12.05 SY
 AREA EMBANKMENT: 4.31 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

- ϵ J - SURVEYED ϵ

AREA DRAINAGE EXCAVATION: 36.15 SY
 AREA EMBANKMENT: 0.38 SY



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

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

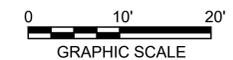


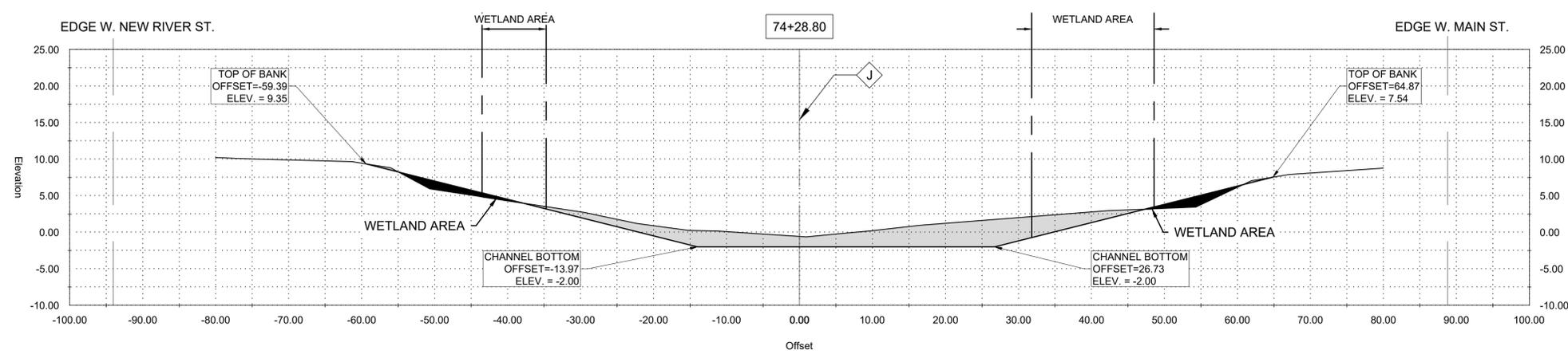
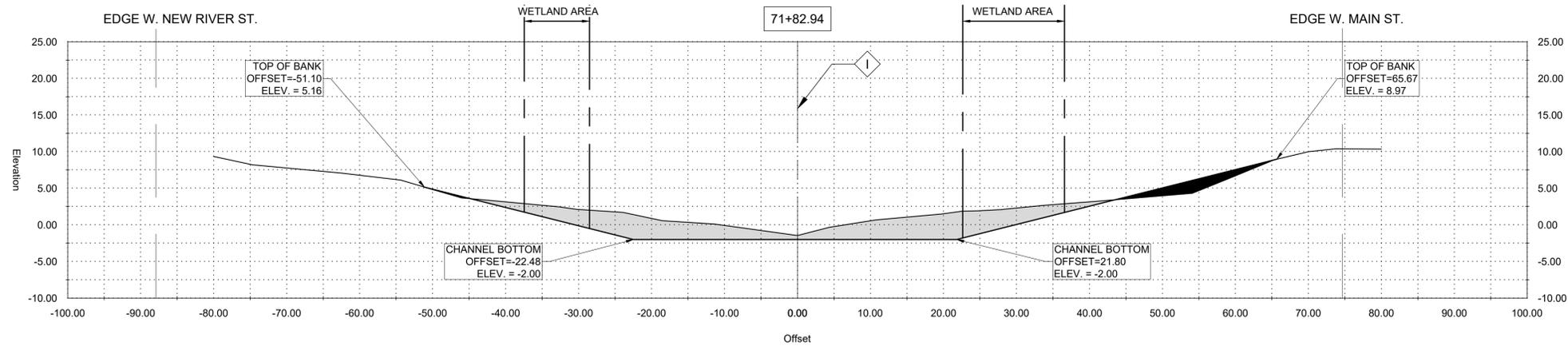
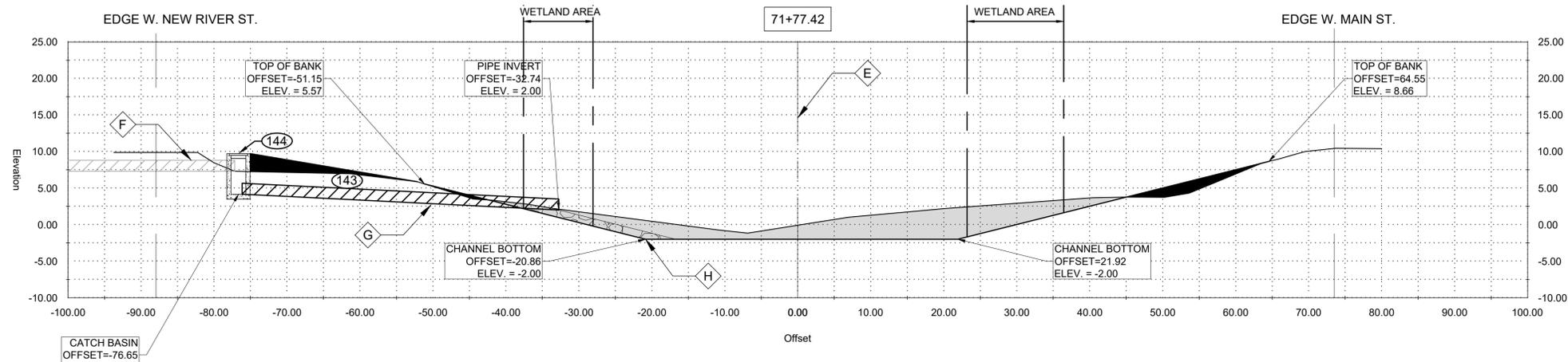
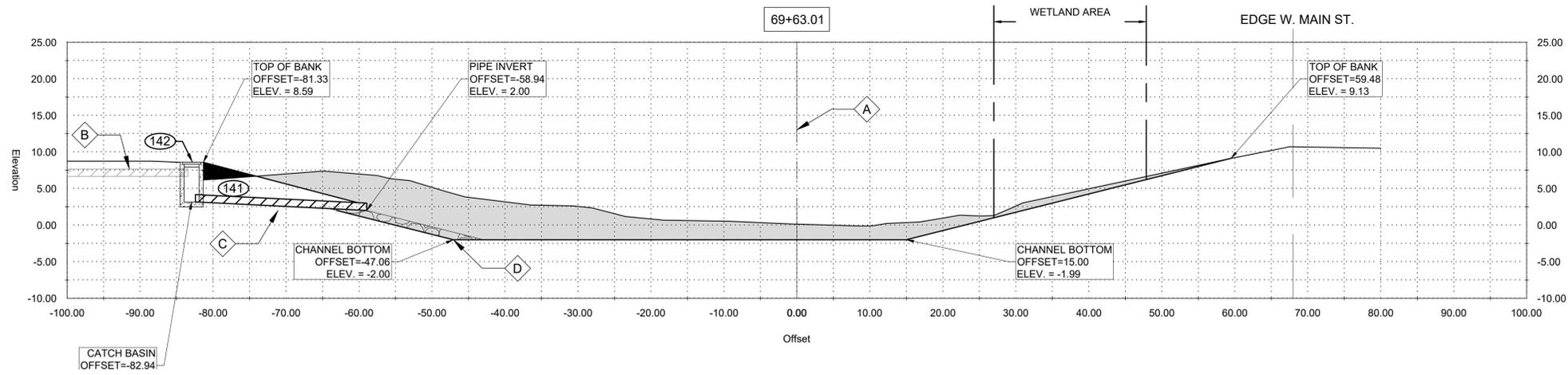
MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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





GENERAL NOTES:

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

NOTES BY SYMBOL:

- ☒ - SURVEYED ☒
- ⬡ - EXISTING 12" RCP
- ⬢ - 15" PLASTIC PIPE EXTENSION [15" SDR (37)]
- ⬤ - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 39.19 SY
 AREA EMBANKMENT: 0.99 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 ☒
- ⬡ - EXISTING 18" CMP
- ⬢ - 18" PLASTIC PIPE EXTENSION [18" SDR (37)]
- ⬤ - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 20.61 SY
 AREA EMBANKMENT: 4.50 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: 19.62 SY
 AREA EMBANKMENT: 2.21 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

- ☒ - SURVEYED ☒

AREA DRAINAGE EXCAVATION: 17.81 SY
 AREA EMBANKMENT: 2.24 SY



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 LICENSE NO. 37823

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
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 LICENSE NO. 27823



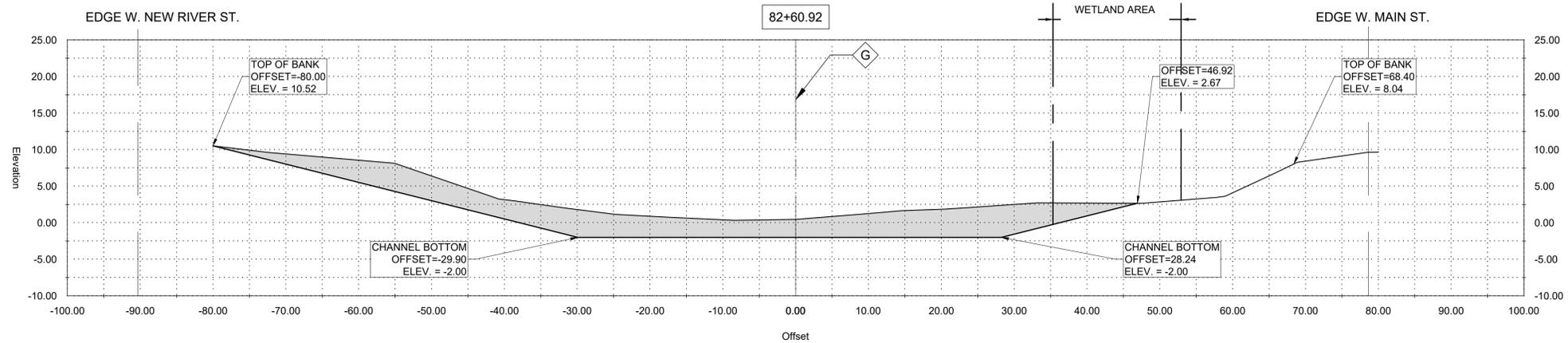
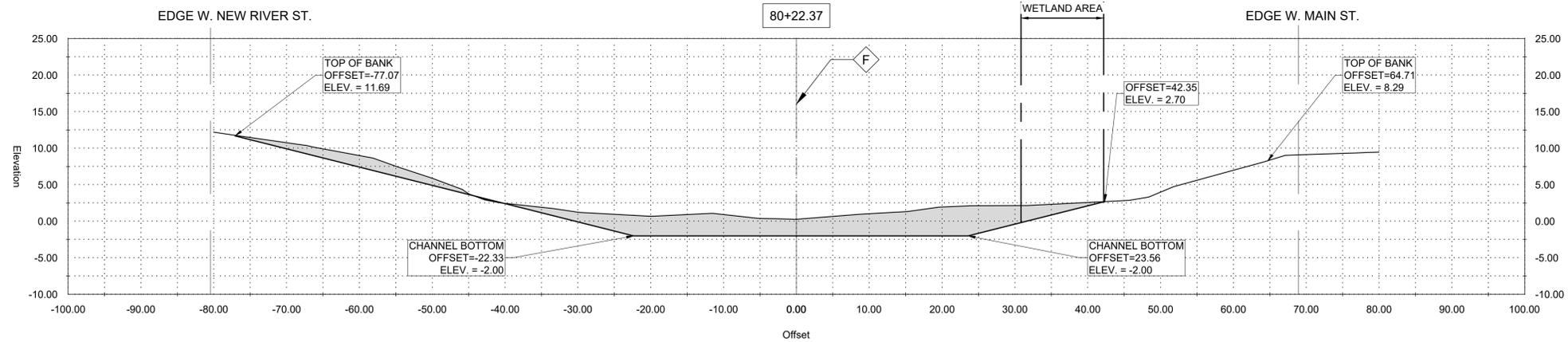
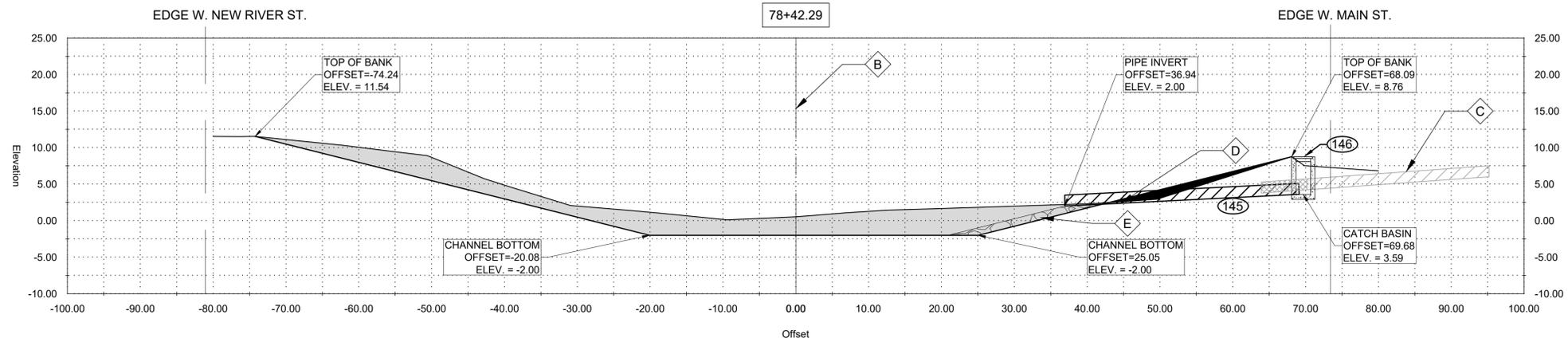
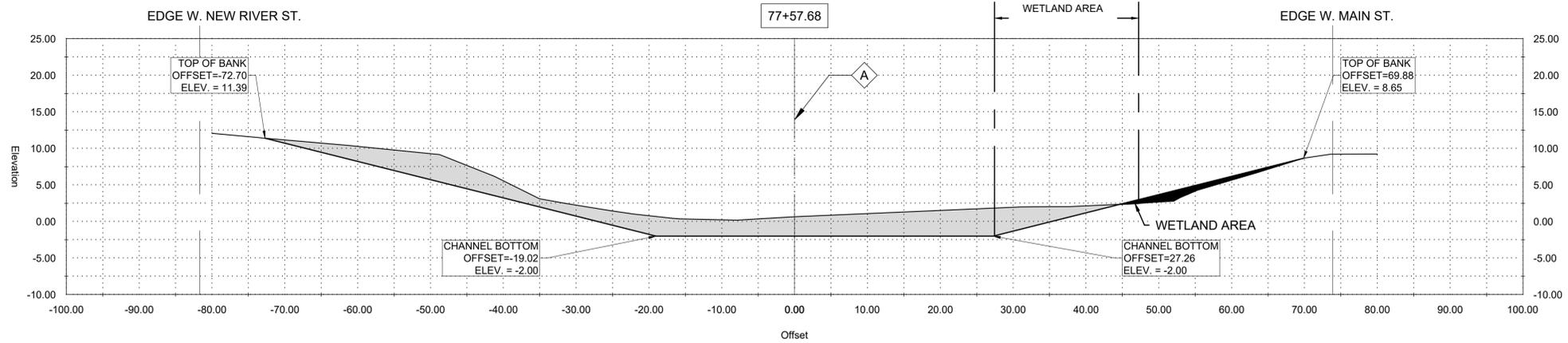
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LOUISIANA
 NEW RIVER CHANNEL IMPROVEMENTS
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737





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

NOTES BY SYMBOL:
 A - SURVEYED CL

AREA DRAINAGE EXCAVATION: 30.77 SY
 AREA EMBANKMENT: 1.61 SY

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

NOTES BY SYMBOL:
 B - SURVEYED CL
 C - EXISTING 18" RCP
 D - 18" PLASTIC PIPE EXTENSION 18" SDR (37)
 E - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 30.32 SY
 AREA EMBANKMENT: 1.66 SY

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

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

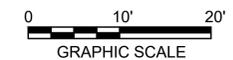
NOTES BY SYMBOL:
 F - SURVEYED CL

AREA DRAINAGE EXCAVATION: 25.20 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:
 G - SURVEYED CL

AREA DRAINAGE EXCAVATION: 38.92 SY
 AREA EMBANKMENT: 0.00 SY



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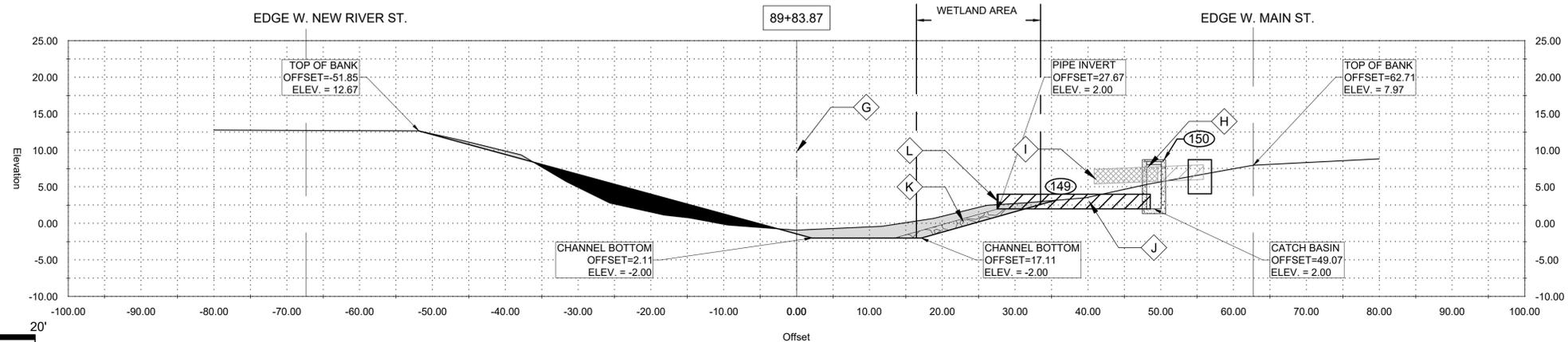
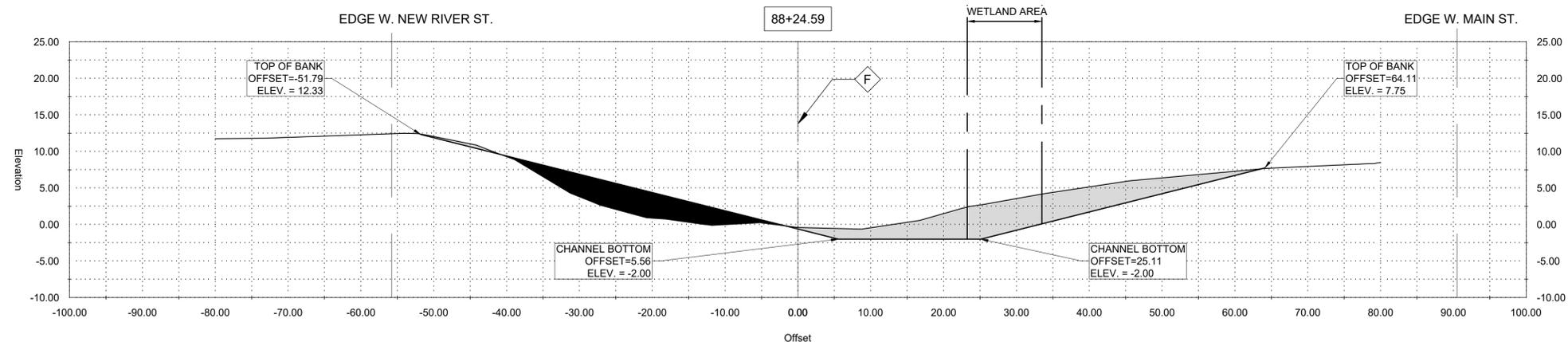
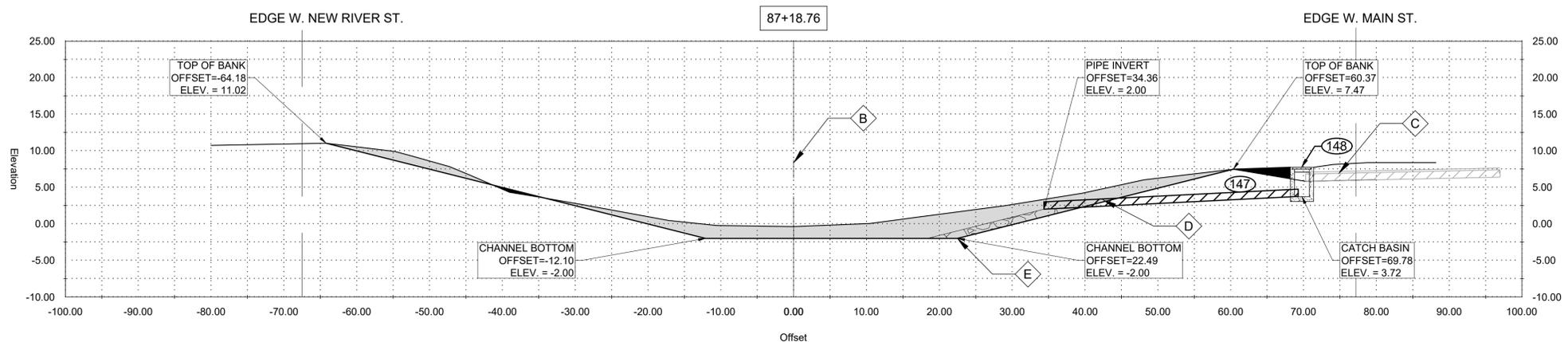
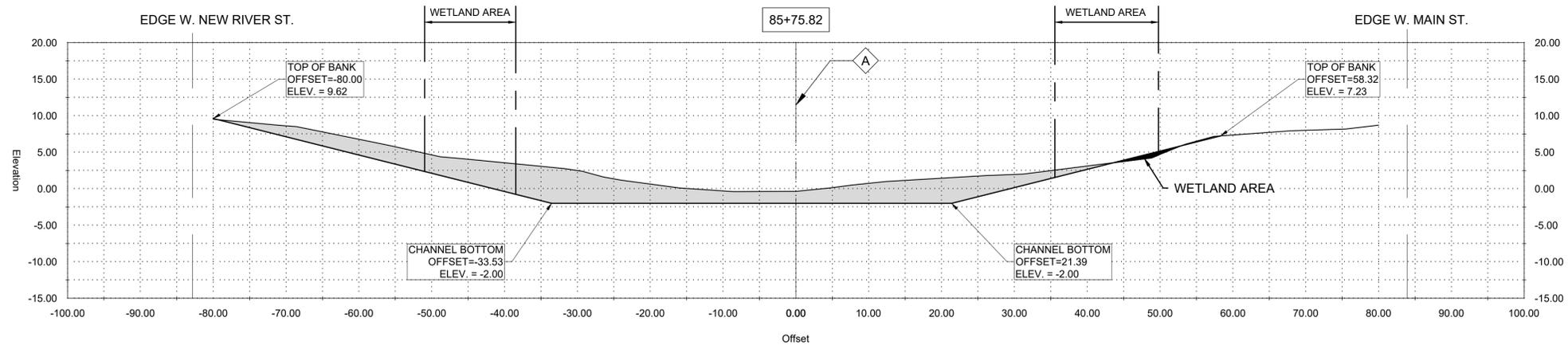


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LOUISIANA
 NEW RIVER CHANNEL IMPROVEMENTS
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737



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

NOTES BY SYMBOL:
 ☒ - SURVEYED ☒

AREA DRAINAGE EXCAVATION: 32.42 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 12" RCP
 ☒ - 15" PLASTIC PIPE EXTENSION [15" SDR (37)]
 ☒ - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 20.08 SY
 AREA EMBANKMENT: 0.68 SY

LEGEND:
 [Hatched] - EXISTING DRAIN PIPE TO REMAIN
 [Cross-hatched] - 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: 18.15 SY
 AREA EMBANKMENT: 9.47 SY

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

NOTES BY SYMBOL:
 ☒ - SURVEYED ☒
 ☒ - EXISTING 24" CMP
 ☒ - EXISTING FLAP GATE, TO BE REMOVED AND DELIVERED TO OWNER SPECIFIED LOCATION, TBD
 ☒ - 24" PLASTIC PIPE EXTENSION [24" SDR (37)]
 ☒ - OUTFALL PROTECTION PER SHEET BM-02
 ☒ - INSTALL NEW FLAP GATE ON PIPE EXTENSION

AREA DRAINAGE EXCAVATION: 6.61 SY
 AREA EMBANKMENT: 6.11 SY

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



SUBMITTED BY:
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 PROJECT MANAGER
 LICENSE NO. 27823

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 27823



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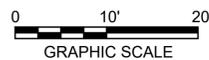
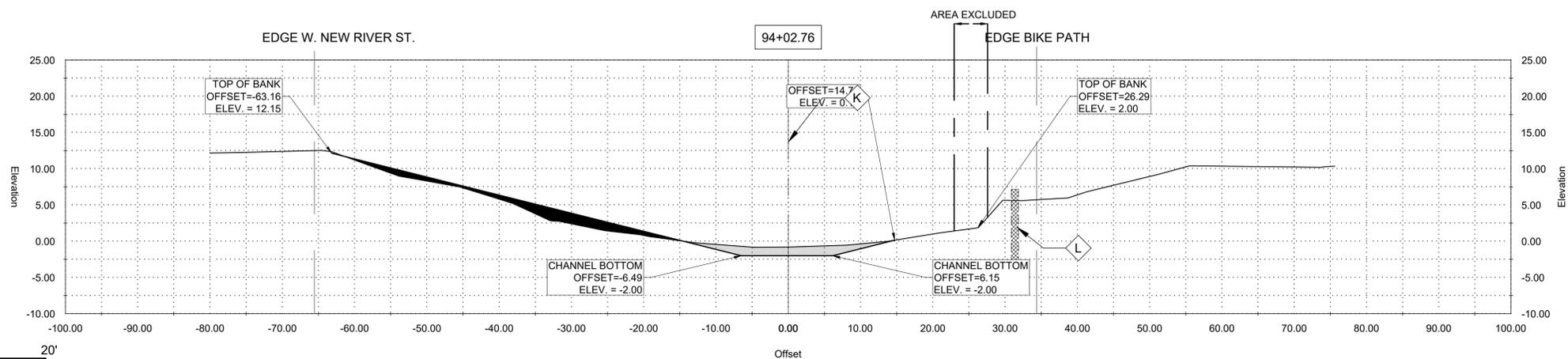
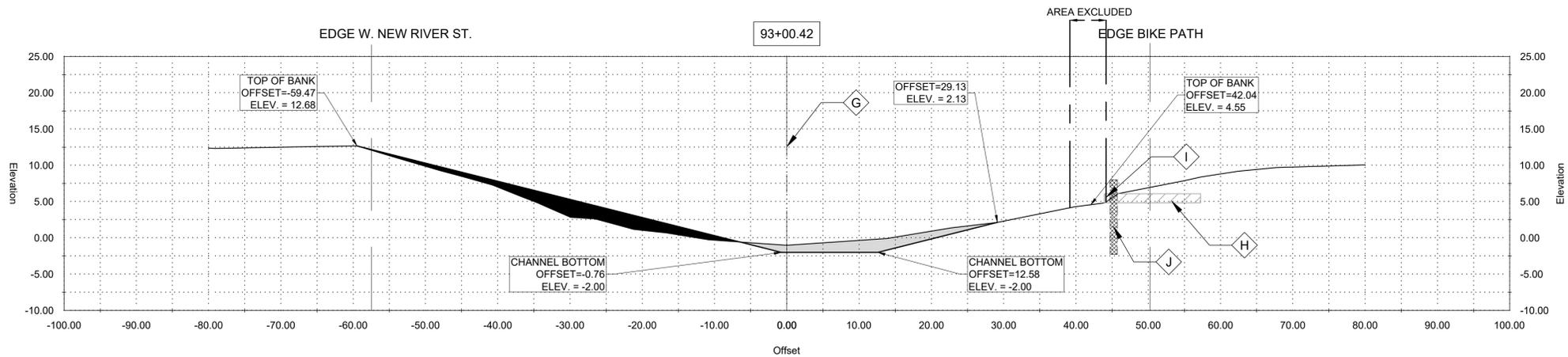
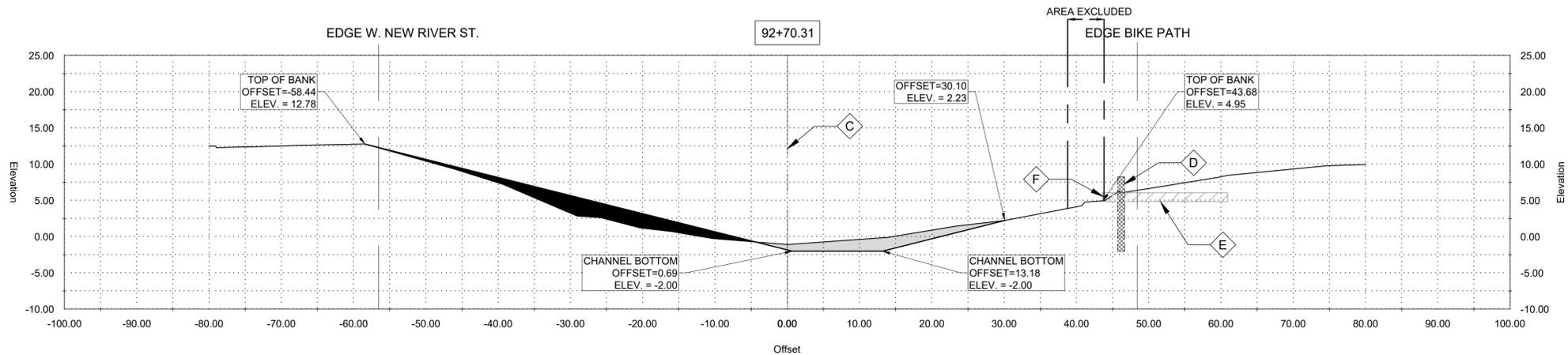
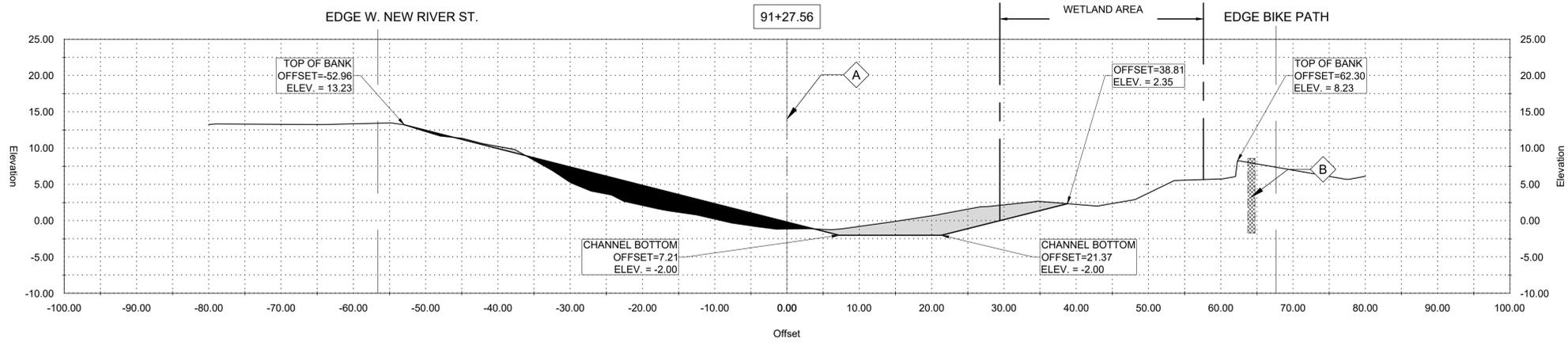
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DESIGNED BY:	DRAWN BY:	CHECKED BY:	DAM
DAM/ARF	ARF/RMM	ARF/RMM	DAM

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
 GONZALES

SHEET ID
C15
 SHEET SET
26 OF **84**
 CROSS SECTIONS



GENERAL NOTES:

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

NOTES BY SYMBOL:

- ☒ - SURVEYED ☒
- ☒ - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 6.95 SY
 AREA EMBANKMENT: 8.48 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

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

AREA DRAINAGE EXCAVATION: 4.05 SY
 AREA EMBANKMENT: 6.63 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

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

AREA DRAINAGE EXCAVATION: 4.12 SY
 AREA EMBANKMENT: 6.24 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

- ☒ - SURVEYED ☒
- ☒ - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 2.87 SY
 AREA EMBANKMENT: 3.88 SY



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 LICENSE NO. 27823

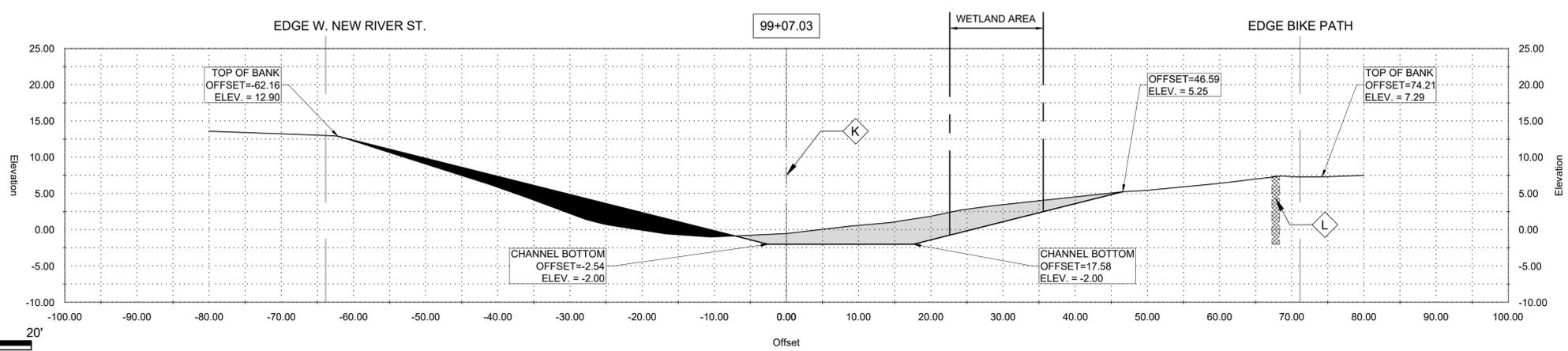
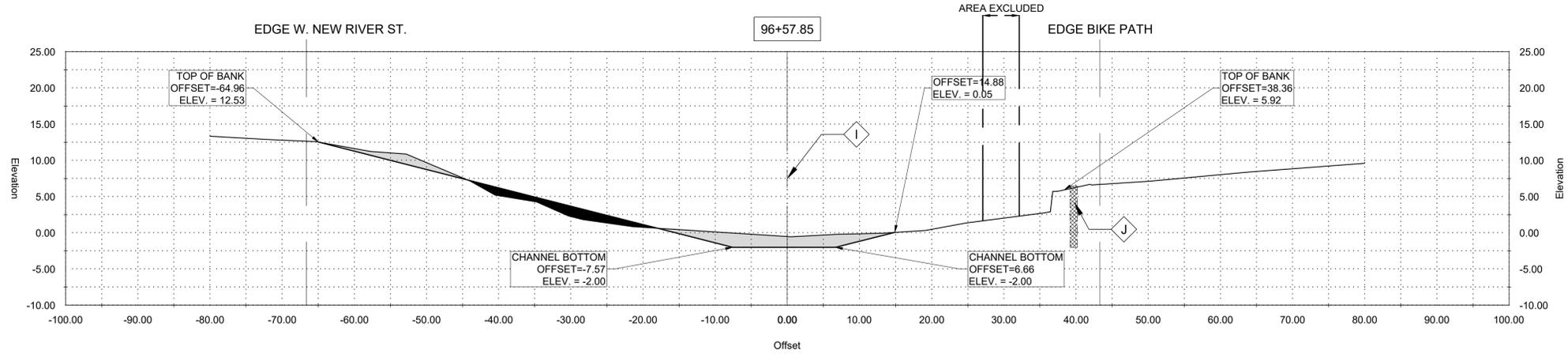
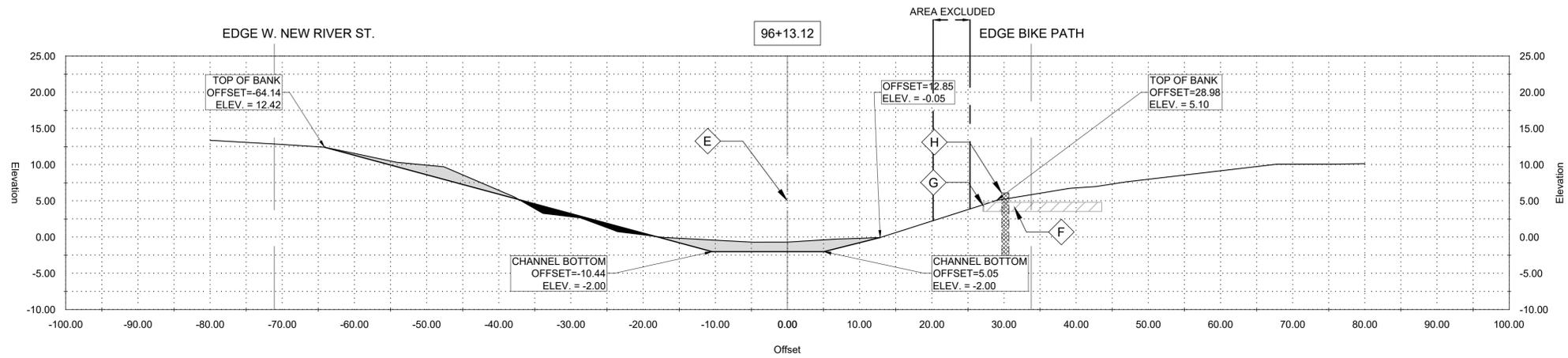
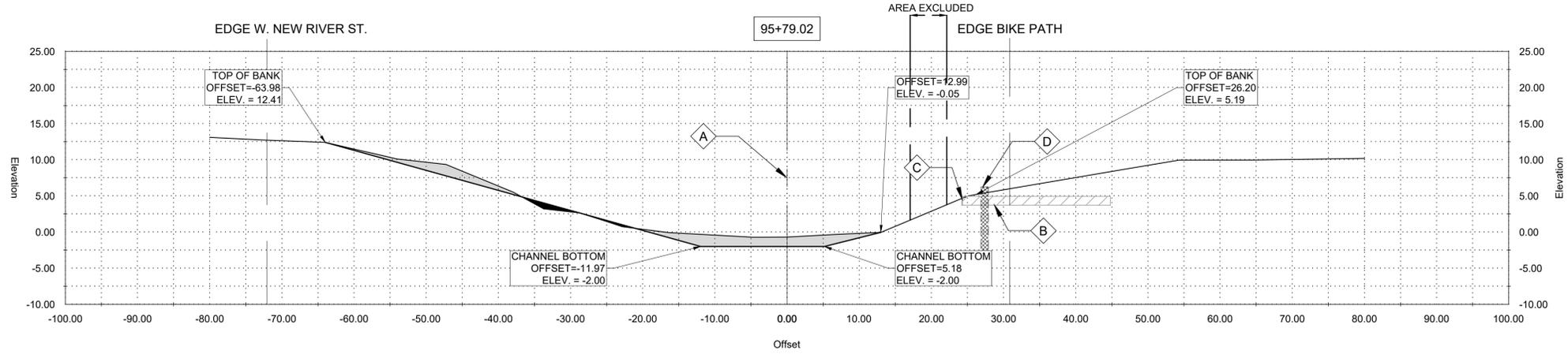
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 DAVID A. MARTIN, P.E.
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 LICENSE NO. 27823



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DATE	DESIGNED BY	DRAWN BY	CHECKED BY	DAM
APRIL, 2019	DAM/ARF	ARF/RMM	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 CL
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

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

AREA DRAINAGE EXCAVATION: 6.19 SY
 AREA EMBANKMENT: 0.47 SY

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

NOTES BY SYMBOL:

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

AREA DRAINAGE EXCAVATION: 6.07 SY
 AREA EMBANKMENT: 1.04 SY

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

NOTES BY SYMBOL:

- CL I - SURVEYED CL
- CL J - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 6.00 SY
 AREA EMBANKMENT: 2.53 SY

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

NOTES BY SYMBOL:

- CL K - SURVEYED CL
- CL L - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 11.87 SY
 AREA EMBANKMENT: 9.17 SY



SUBMITTED BY:
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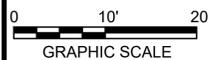
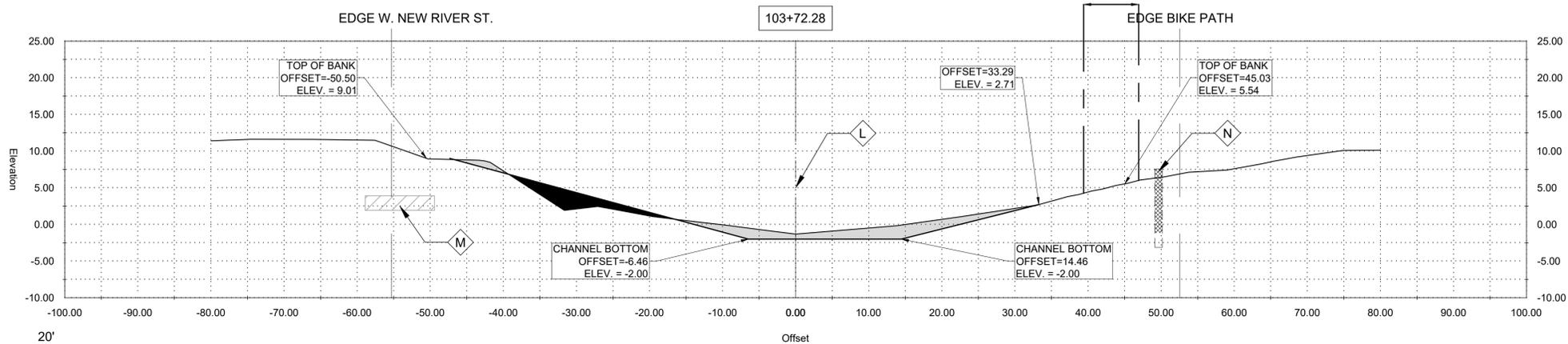
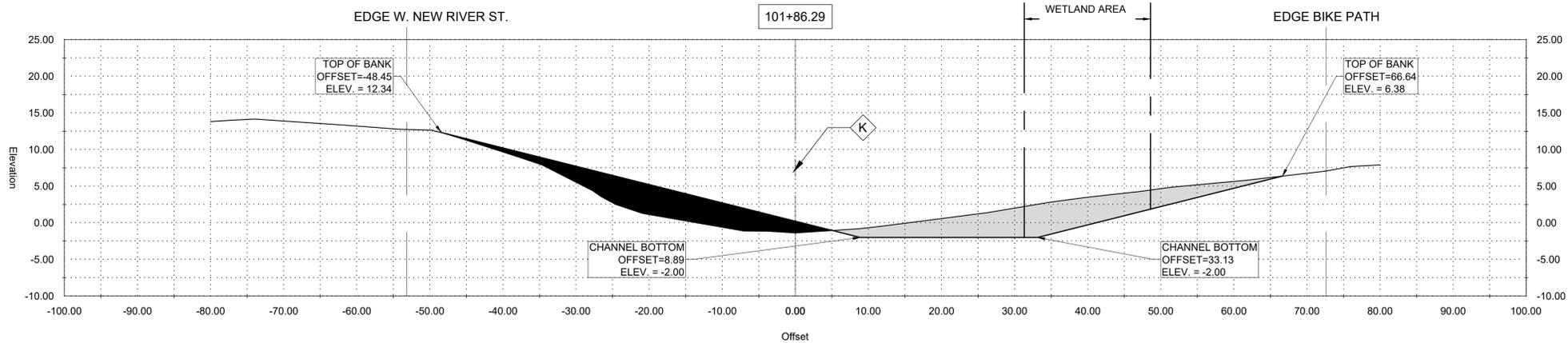
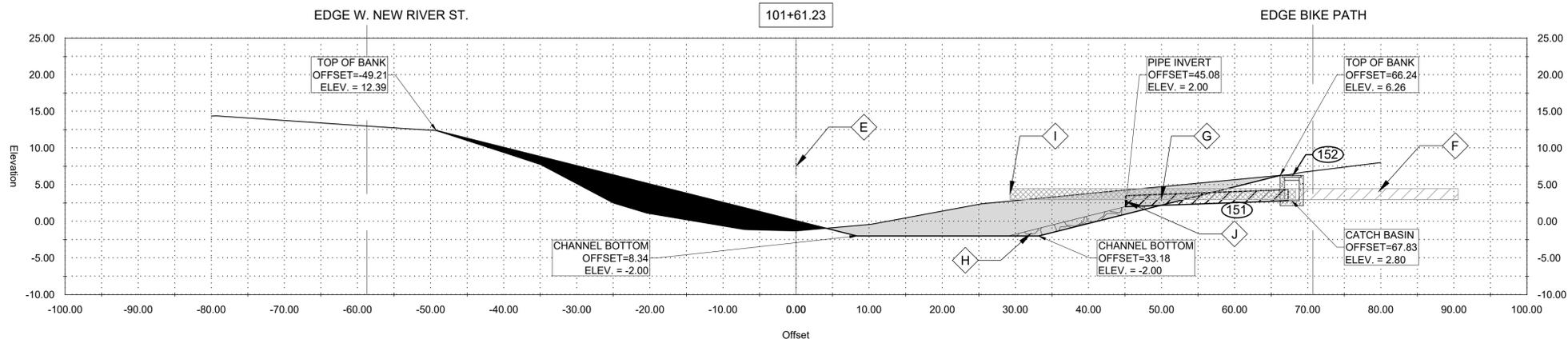
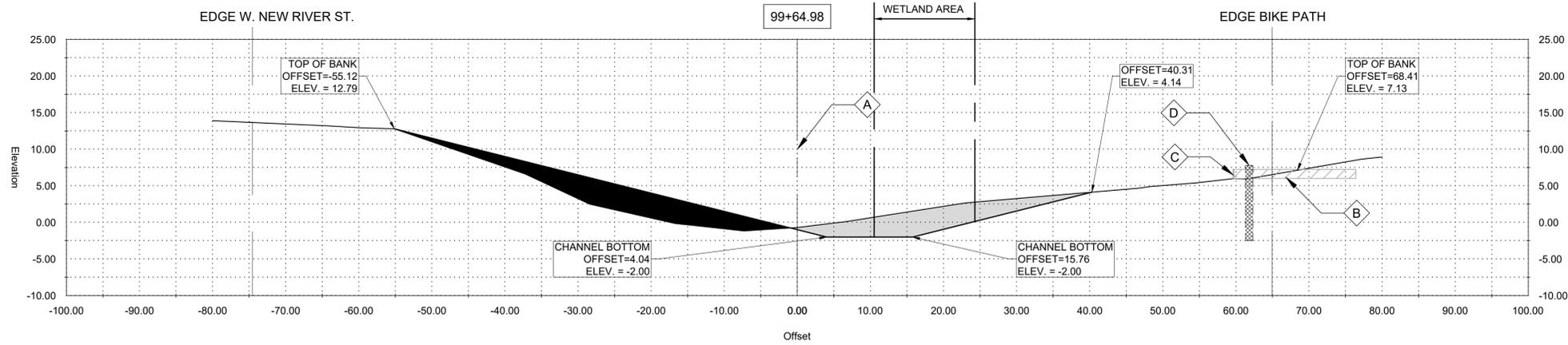


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DATE:	APRIL, 2019	DRAWN BY:	ARF/RMM
DETAILED BY:	ARF/RMM	HDC PROJECT NO.	2017-14

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



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 15" CMP
 C - EXISTING FLAP GATE, TO REMAIN
 D - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 9.22 SY
 AREA EMBANKMENT: 12.30 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 - EXISTING 18" CMP
 G - 18" PLASTIC PIPE EXTENSION 18" SDR (37)
 H - OUTFALL PROTECTION PER SHEET BM-02
 I - EXISTING FLAP GATE, TO BE REMOVED AND DELIVERED TO OWNER SPECIFIED LOCATION, TBD
 J - 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 ζ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 K - SURVEYED ζ

AREA DRAINAGE EXCAVATION: 16.52 SY
 AREA EMBANKMENT: 12.83 SY

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 24" STORM DRAIN PIPE AND STRUCTURE TO REMAIN
 N - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 6.07 SY
 AREA EMBANKMENT: 2.95 SY



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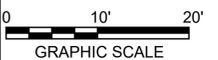
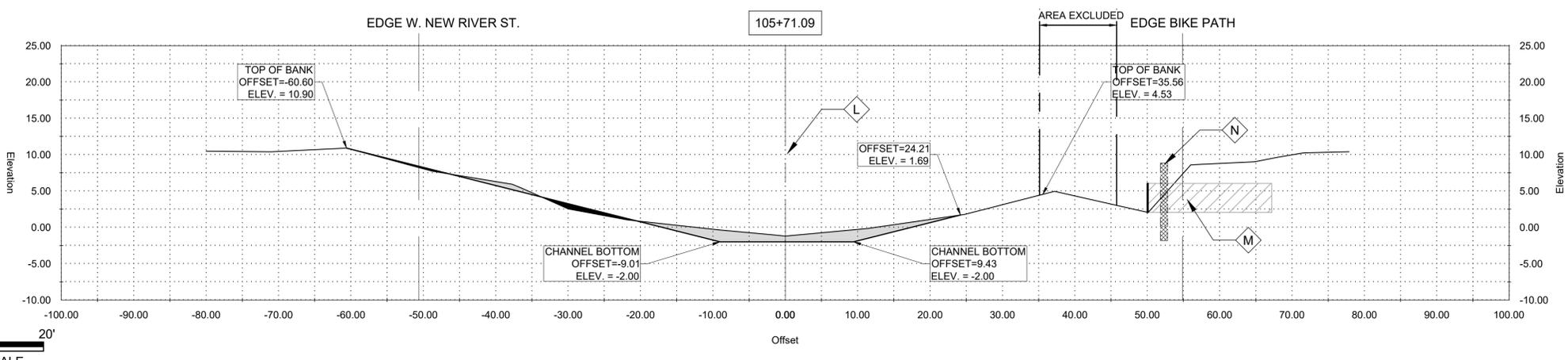
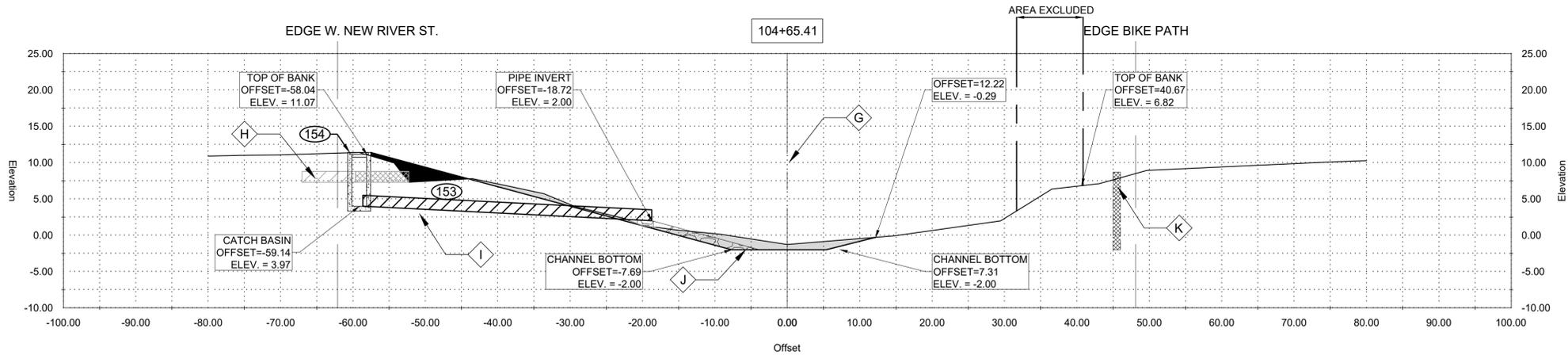
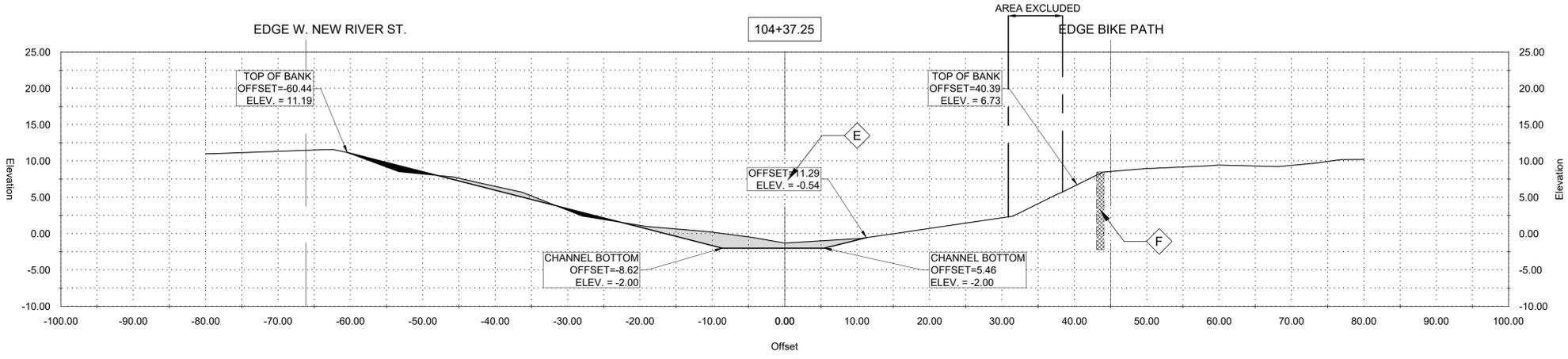
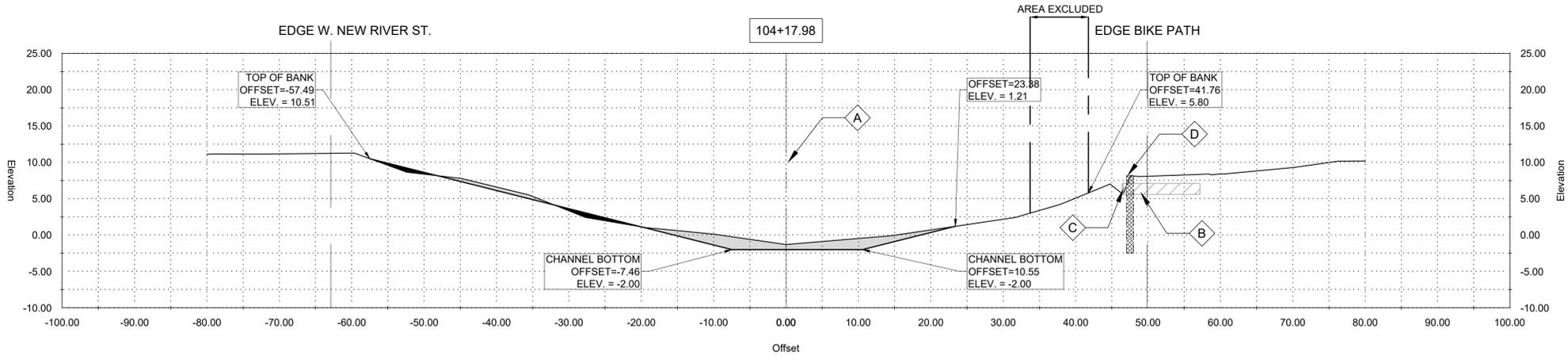
MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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
 GONZALES

SHEET ID
C18
 SHEET SET
29 OF 84
 CROSS SECTIONS



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

NOTES BY SYMBOL:

- ζ A - SURVEYED ζ
- ζ B - EXISTING 18" CMP
- ζ C - EXISTING FLAP GATE, TO REMAIN
- ζ 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:

- ζ E - SURVEYED ζ
- 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:

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

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

AREA DRAINAGE EXCAVATION: 5.35 SY
 AREA EMBANKMENT: 0.74 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	07/2021	RM	HDC

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

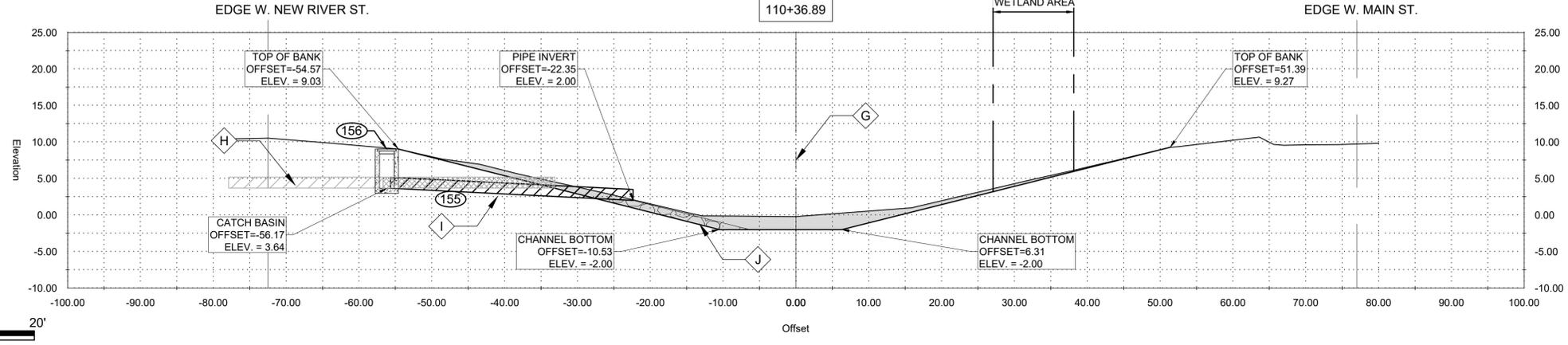
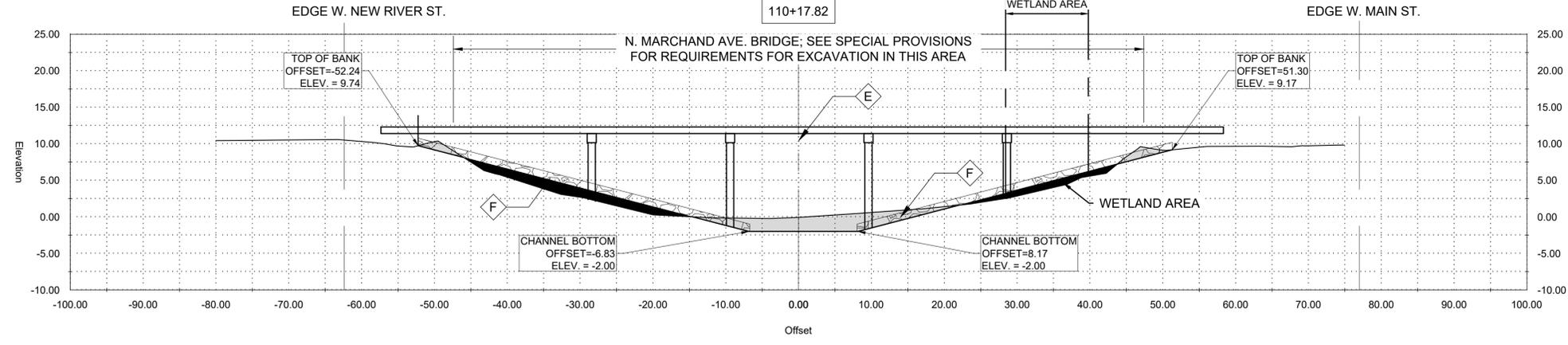
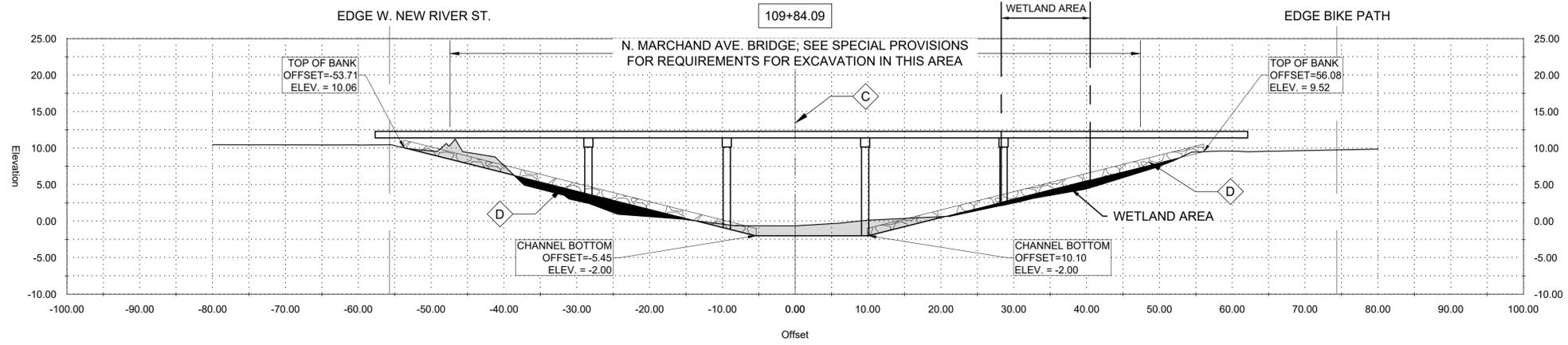
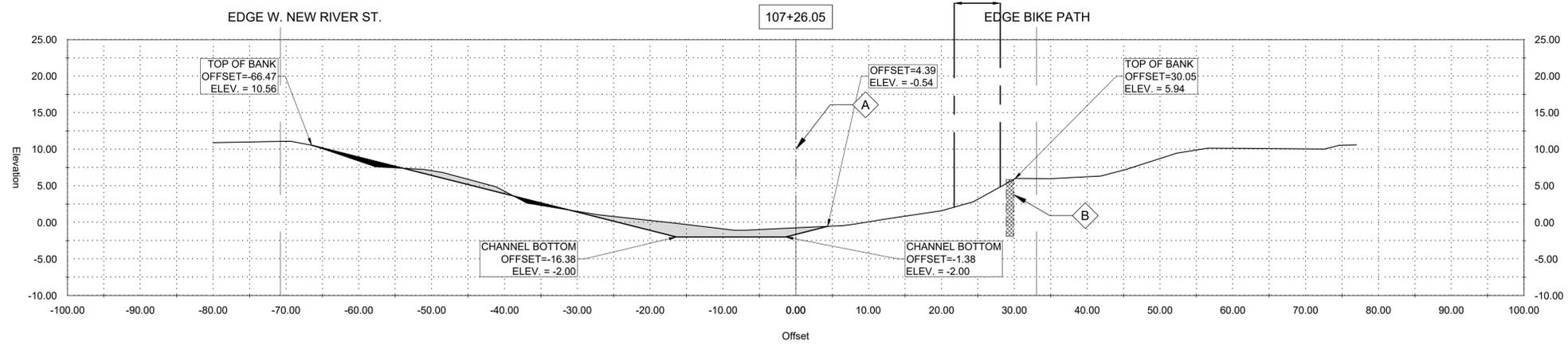
LOUISIANA

GONZALES

EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1

42077 CHURCHPOINT ROAD, GONZALES, LA 70737

CROSS SECTIONS



GENERAL NOTES:

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

NOTES BY SYMBOL:

- A - SURVEYED CL
- B - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 4.76 SY
 AREA EMBANKMENT: 0.71 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

- C - SURVEYED CL
- 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 CL
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- E - SURVEYED CL
- 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 CL
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- G - SURVEYED CL
- H - EXISTING 15" RCP
- I - 15" PLASTIC PIPE EXTENSION 15" SDR (37)
- 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



SUBMITTED BY:
 ANDREW FORD, E.I.
 PROJECT MANAGER
 LICENSE NO. 27823

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 27823



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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

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



SUBMITTED BY:
 ANDREW FORD, E.I.
 PROJECT MANAGER
 LICENSE NO. 27823
 SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 27823



MARK	DESCRIPTION	DATE	BY	CHKD
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APRIL, 2019	DAM/ARF	ARF/RMM	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

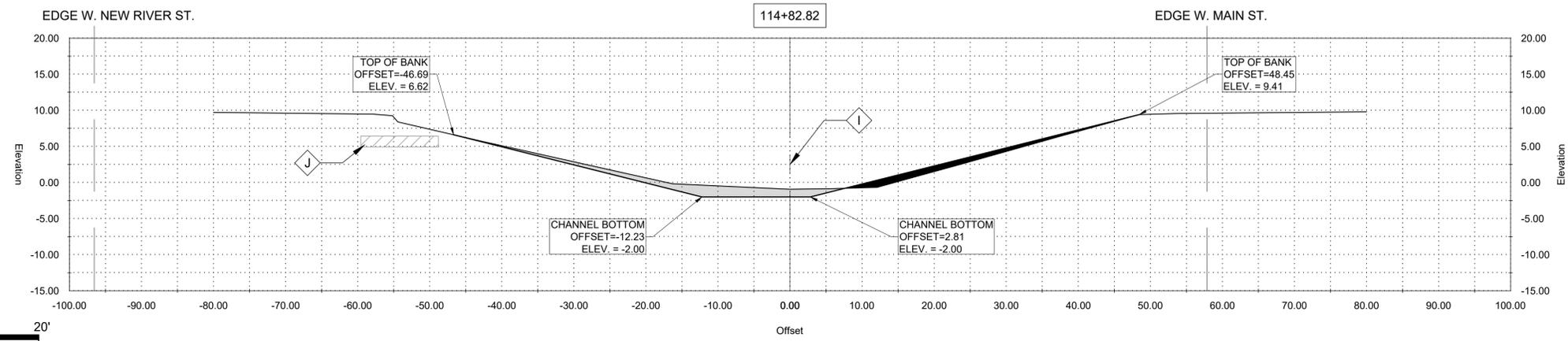
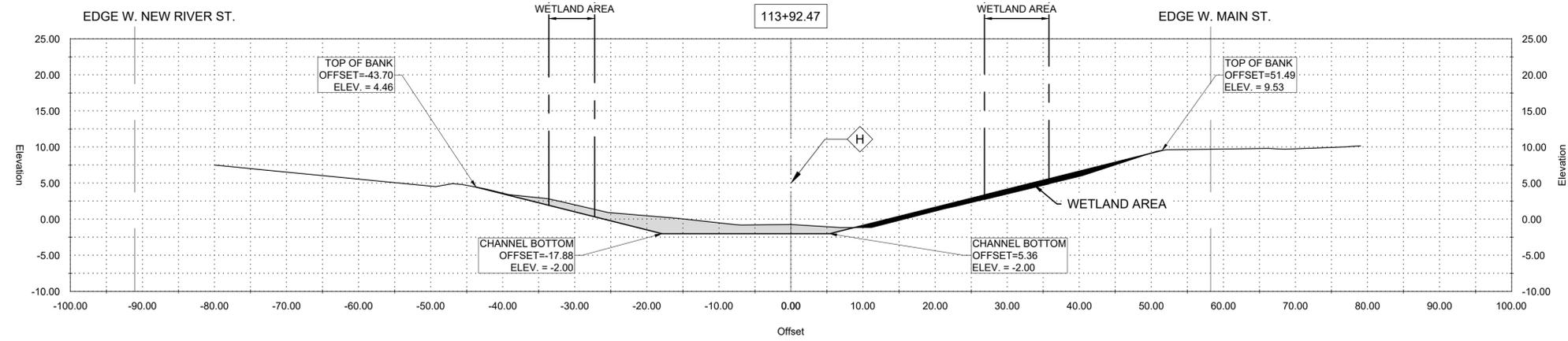
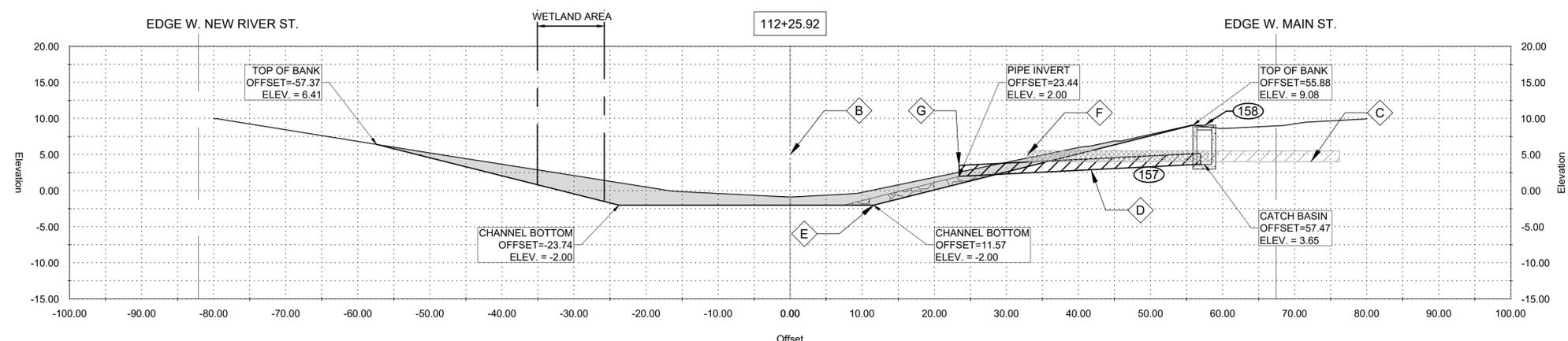
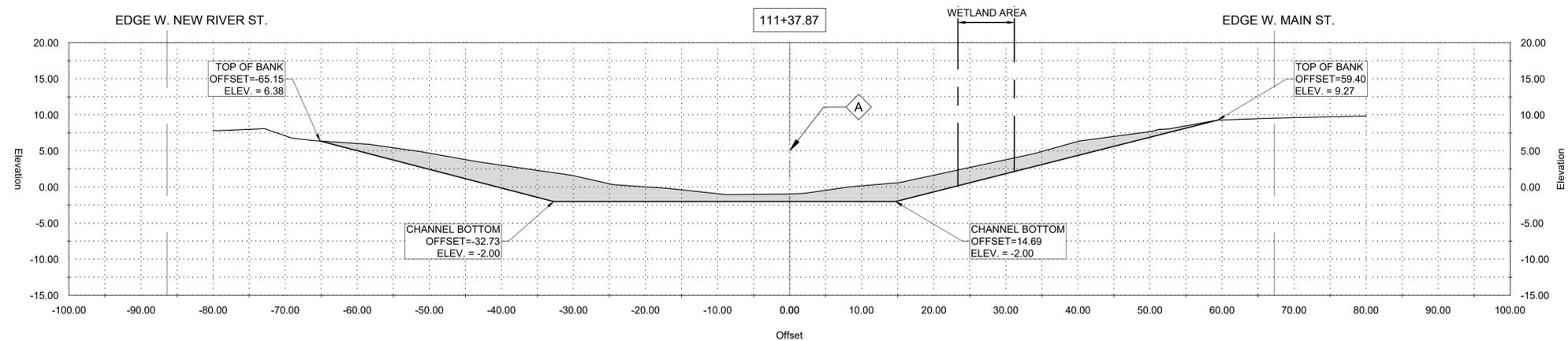
SHEET ID
C21
 SHEET SET
32 OF 84

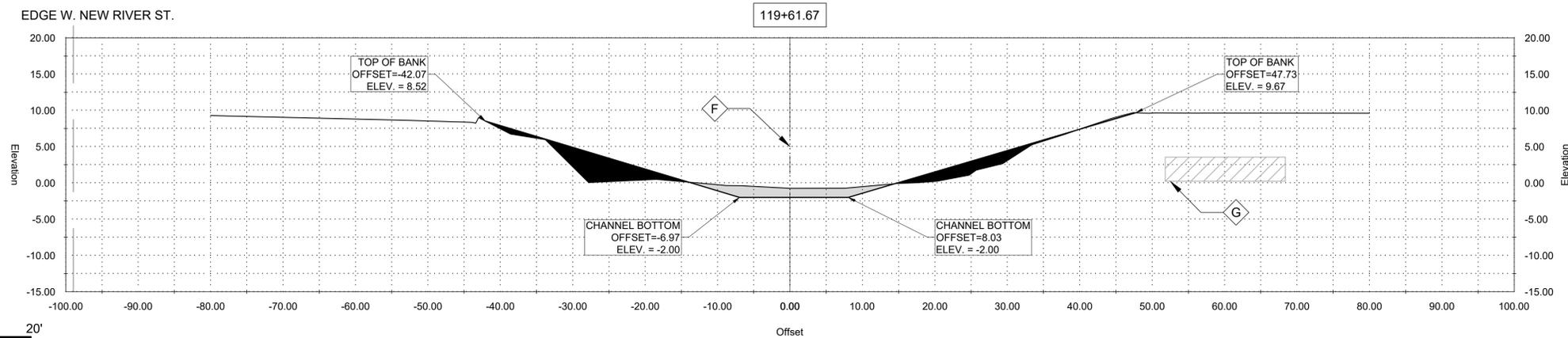
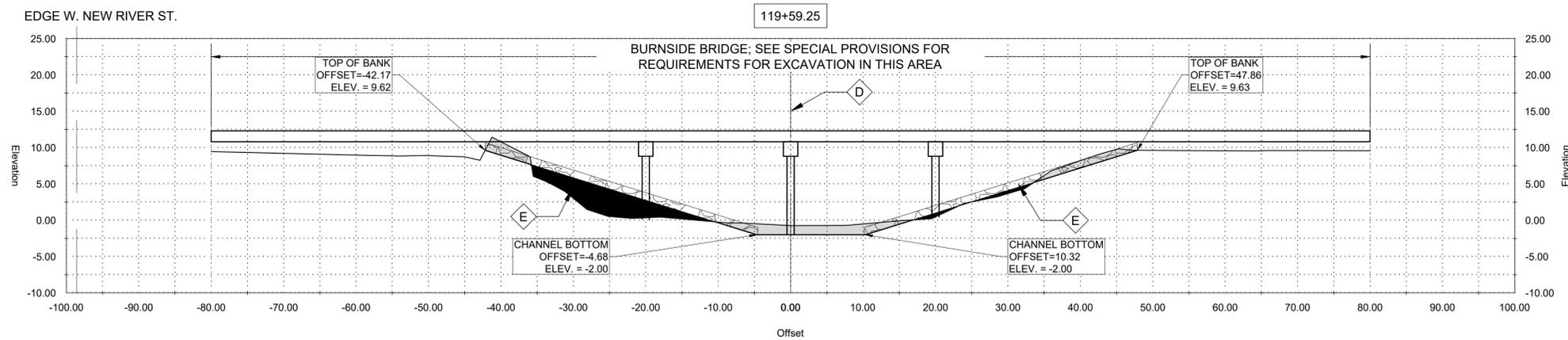
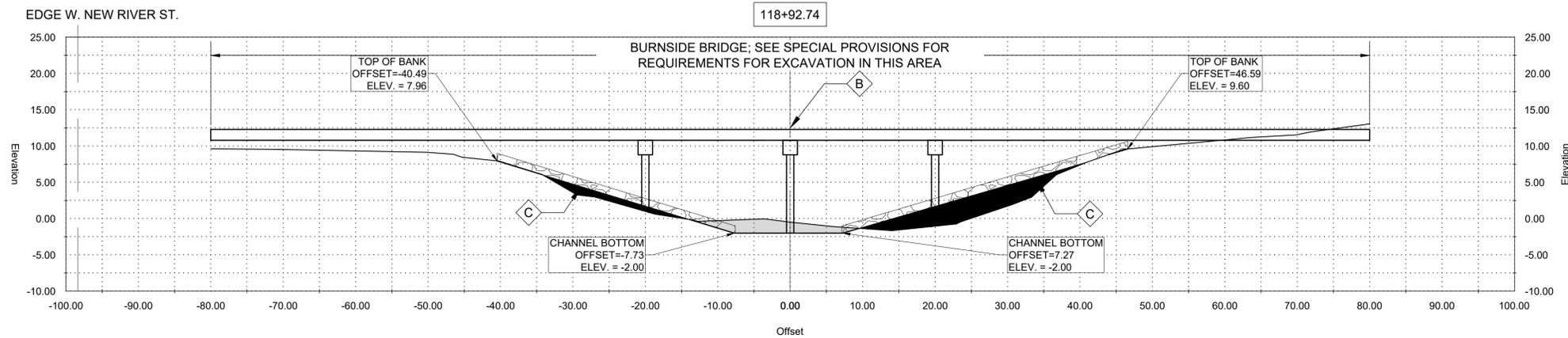
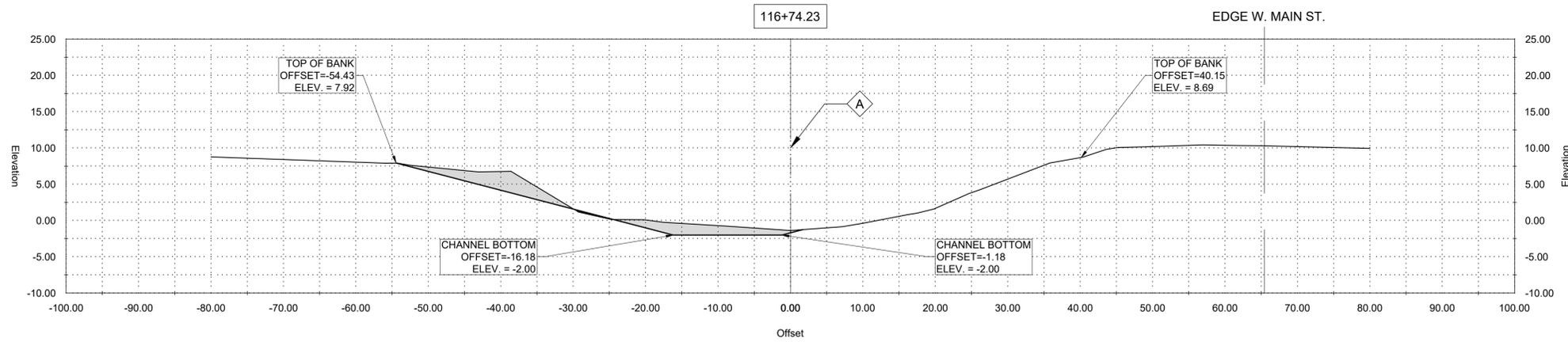
GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ζ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS
NOTES BY SYMBOL:
 ζ - SURVEYED ζ
 AREA DRAINAGE EXCAVATION: 25.68 SY
 AREA EMBANKMENT: 0.00 SY

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 18" CMP
 ζ - 18" PLASTIC PIPE EXTENSION (18" SDR (37))
 ζ - OUTFALL PROTECTION PER SHEET BM-02
 ζ - EXISTING FLAP GATE, TO BE REMOVED AND DELIVERED TO OWNER SPECIFIED LOCATION, TBD
 ζ - INSTALL NEW FLAP GATE ON PIPE EXTENSION
 AREA DRAINAGE EXCAVATION: 17.87 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:
 ζ - SURVEYED ζ
 AREA DRAINAGE EXCAVATION: 6.59 SY
 AREA EMBANKMENT: 2.43 SY

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 18" RCP TO REMAIN
 AREA DRAINAGE EXCAVATION: 4.39 SY
 AREA EMBANKMENT: 2.23 SY





GENERAL NOTES:

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

NOTES BY SYMBOL:

☒ - SURVEYED ☒

AREA DRAINAGE EXCAVATION: 6.59 SY
 AREA EMBANKMENT: 0.08 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

☒ - SURVEYED ☒

☒ - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 3.17 SY
 AREA EMBANKMENT: 8.55 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

☒ - SURVEYED ☒

☒ - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 5.55 SY
 AREA EMBANKMENT: 6.71 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

☒ - SURVEYED ☒

☒ - EXISTING 40" CMP TO REMAIN

AREA DRAINAGE EXCAVATION: 3.40 SY
 AREA EMBANKMENT: 7.24 SY



SUBMITTED BY:
 ANDREW FORD, E.I.
 PROJECT MANAGER
 LICENSE NO. 27823

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 27823

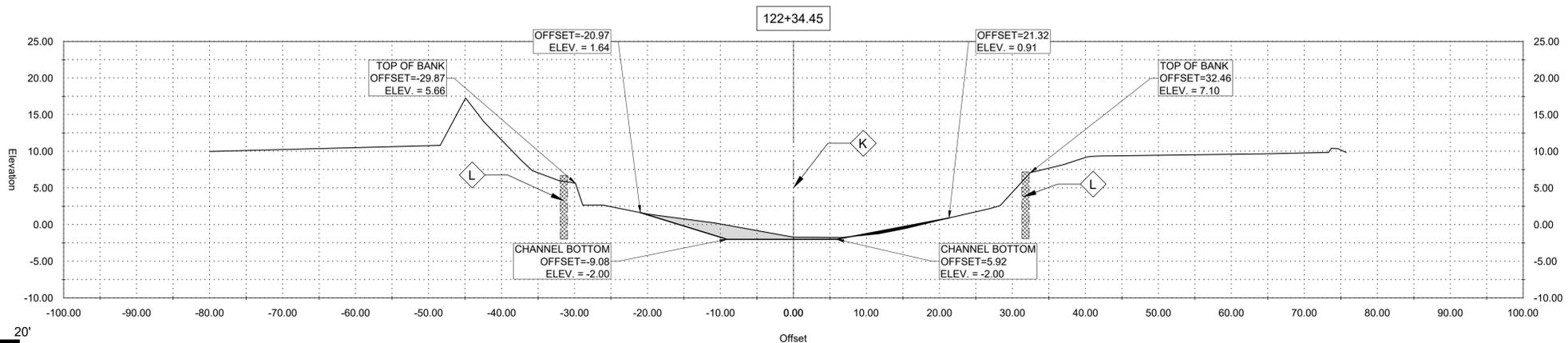
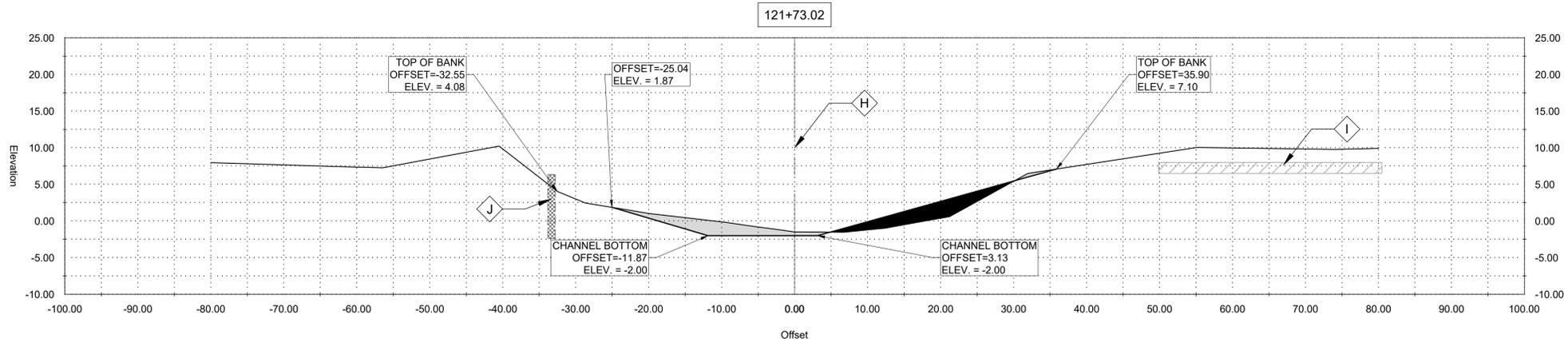
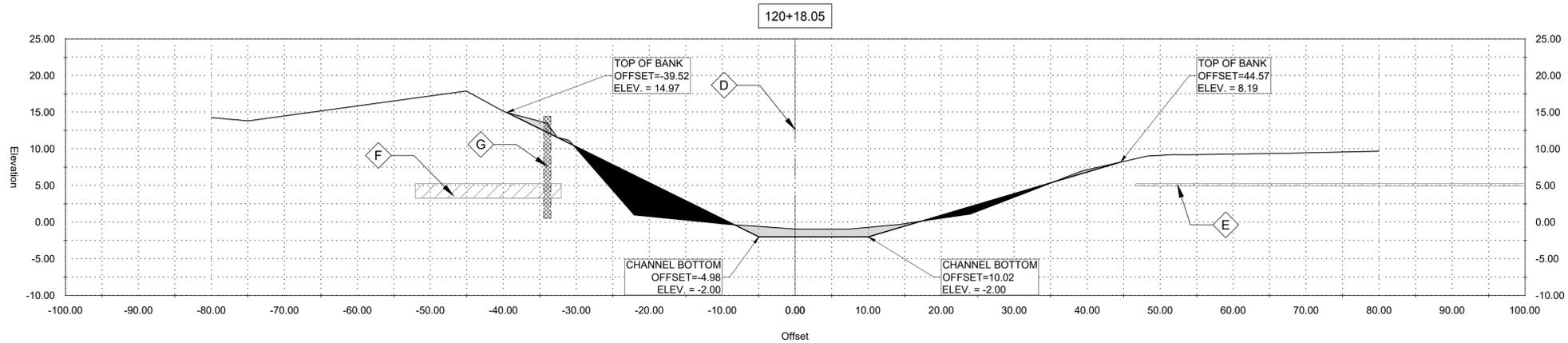
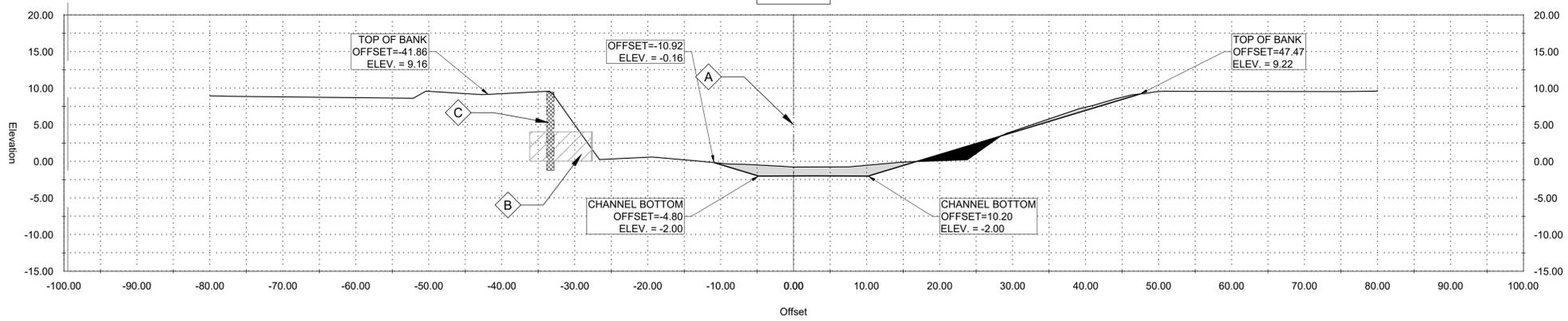


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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

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

EDGE W. NEW RIVER ST.



GENERAL NOTES:

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

NOTES BY SYMBOL:

- ☒ A - SURVEYED ☒
- ☒ 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 ☒
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- ☒ D - SURVEYED ☒
- ☒ 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 ☒
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- ☒ H - SURVEYED ☒
- ☒ 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 ☒
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

- ☒ K - SURVEYED ☒
- ☒ L - WOODEN BULKHEAD TO REMAIN

AREA DRAINAGE EXCAVATION: 2.59 SY
 AREA EMBANKMENT: 0.30 SY



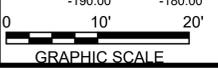
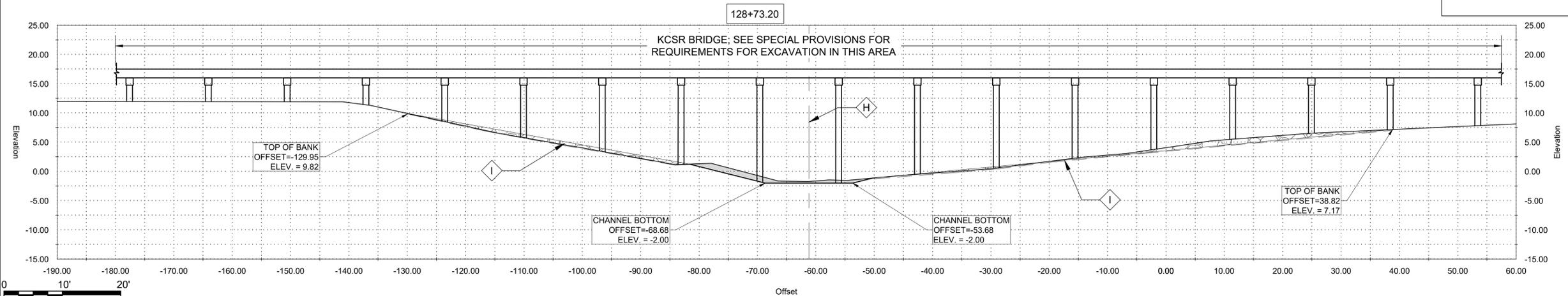
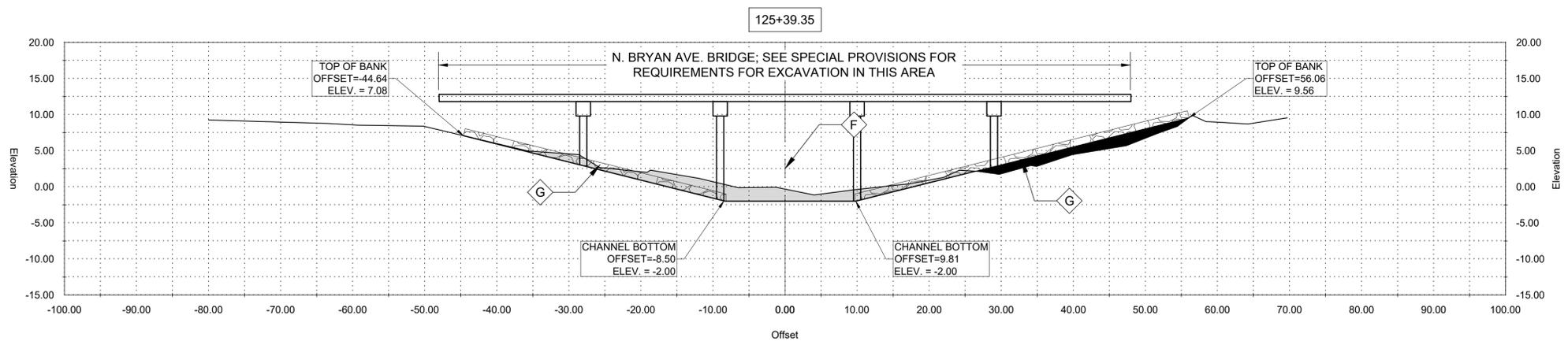
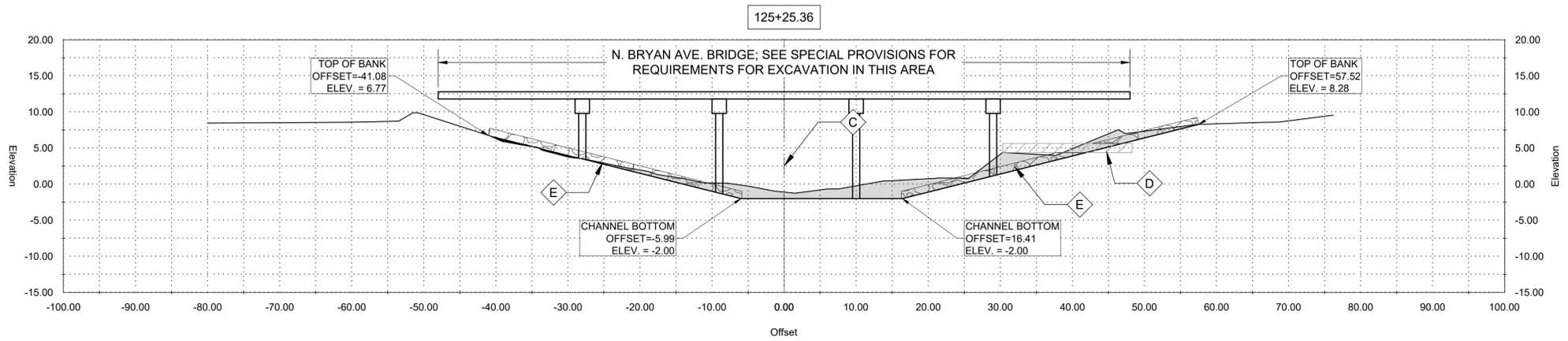
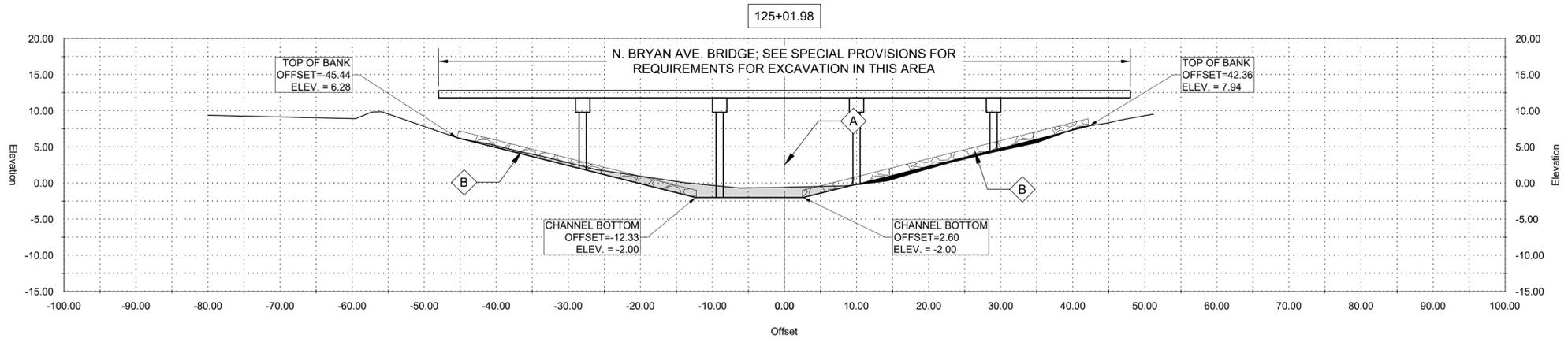
SUBMITTED BY: ANDREW FORD, E.I. PROJECT MANAGER
 SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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

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



GENERAL NOTES:

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

NOTES BY SYMBOL:

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

AREA DRAINAGE EXCAVATION: 2.10 SY
 AREA EMBANKMENT: 0.00 SY



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

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

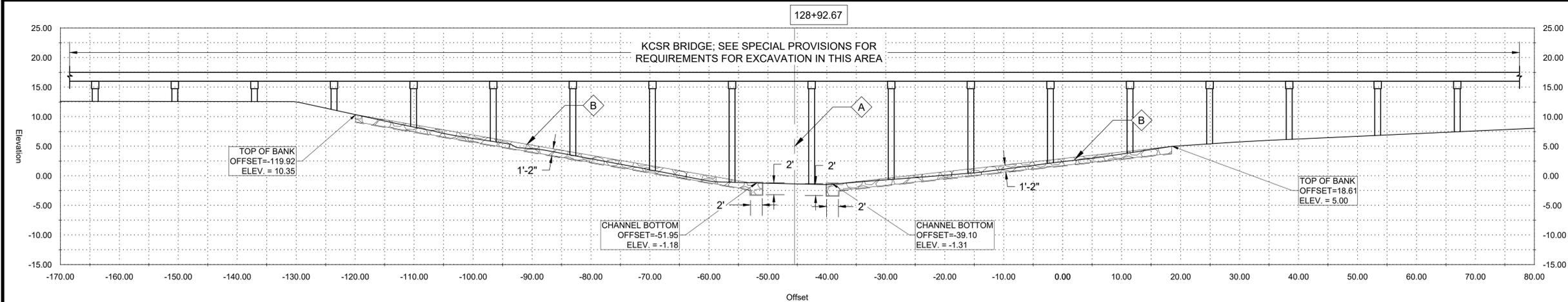


MARK	DATE	BY	DESCRIPTION
	07/2021	RM	HDC

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

REVISION RECORD



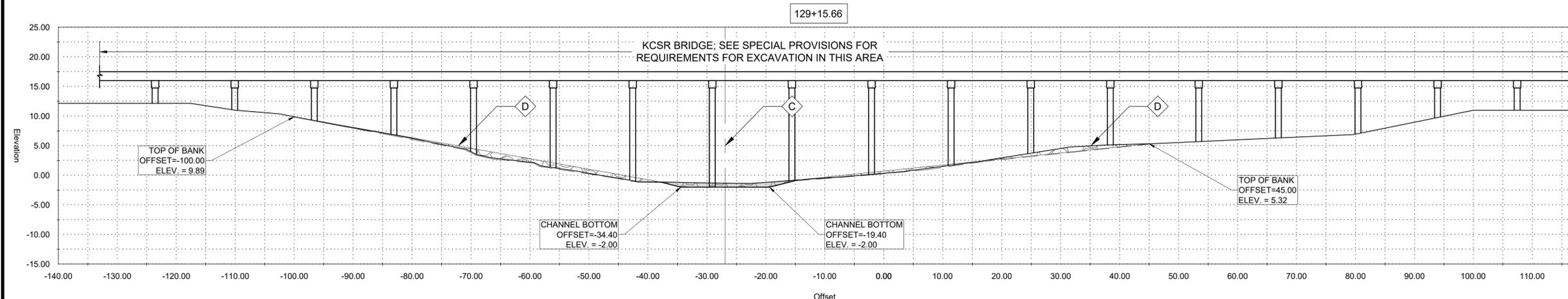
GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ϵ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 \diamond A - SURVEYED ϵ
 \diamond B - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 0.00 SY
 AREA EMBANKMENT: 0.00 SY



SUBMITTED BY: ANDREW FORD, E.I. PROJECT MANAGER
 SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL



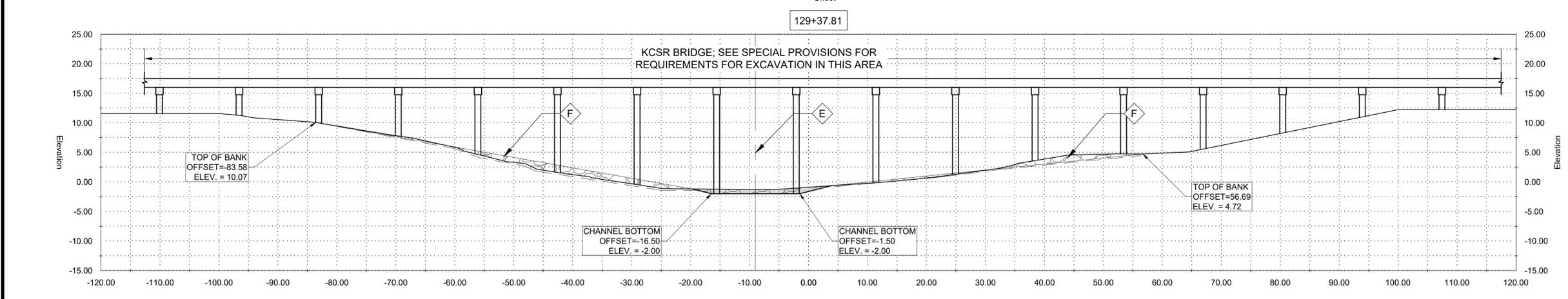
GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ϵ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 \diamond C - SURVEYED ϵ
 \diamond D - RIP RAP PER SECTION 02711 (10 LB.)

AREA DRAINAGE EXCAVATION: 1.55 SY
 AREA EMBANKMENT: 0.00 SY



MARK	DESCRIPTION	DATE	BY	CHKD
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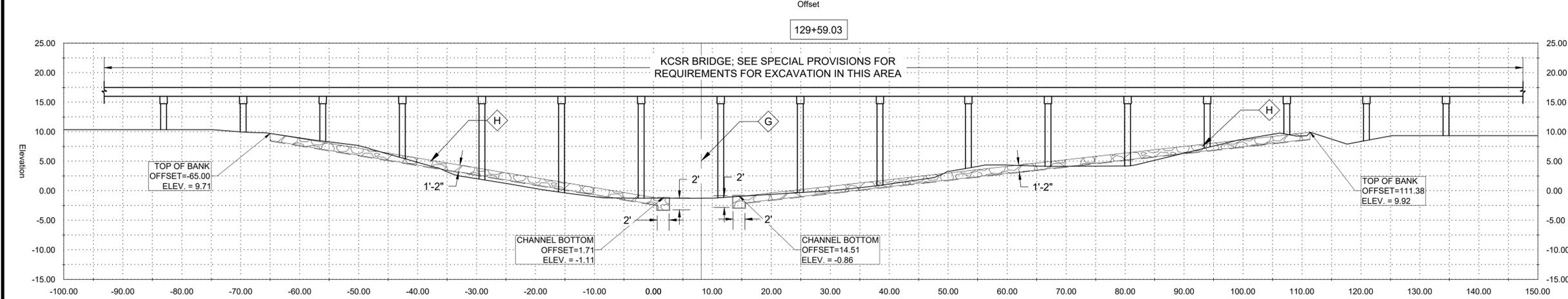


GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ϵ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 \diamond E - SURVEYED ϵ
 \diamond F - RIP RAP PER SECTION 02711 (10 LB.)

AREA DRAINAGE EXCAVATION: 1.70 SY
 AREA EMBANKMENT: 0.00 SY

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



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

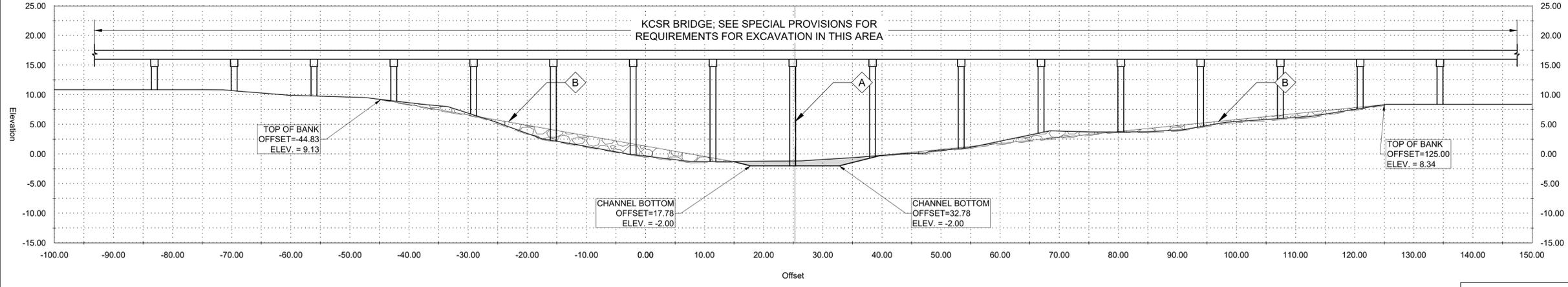
NOTES BY SYMBOL:
 \diamond G - SURVEYED ϵ
 \diamond H - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 0.00 SY
 AREA EMBANKMENT: 0.00 SY

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



129+80.24



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

NOTES BY SYMBOL:
 A - SURVEYED ϵ
 B - RIP RAP PER SECTION 02711

AREA DRAINAGE EXCAVATION: 2.11 SY
 AREA EMBANKMENT: 0.00 SY



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

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



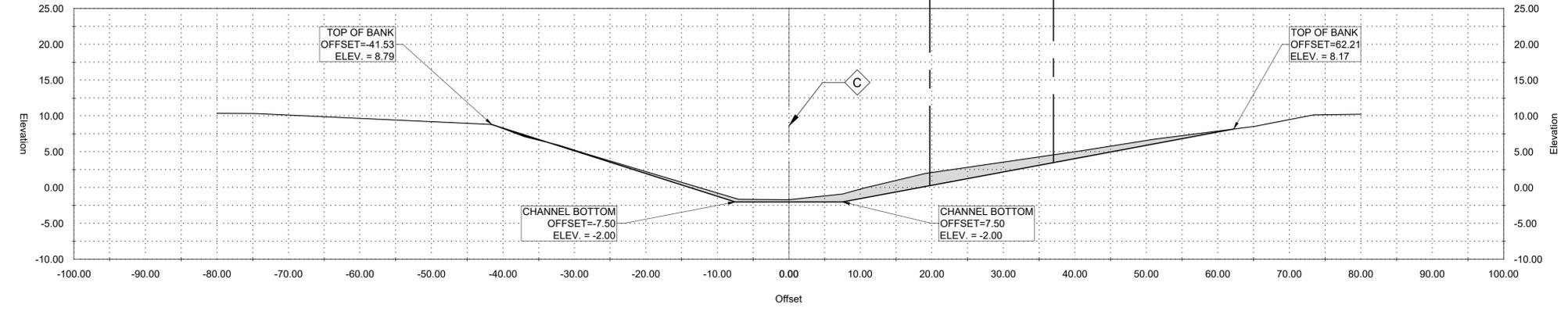
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APRIL, 2019	DAM/ARF	ARF/RMM	ARF/RMM	DAM

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

SHEET ID
C26
 SHEET SET
37 OF **84**

130+55.59

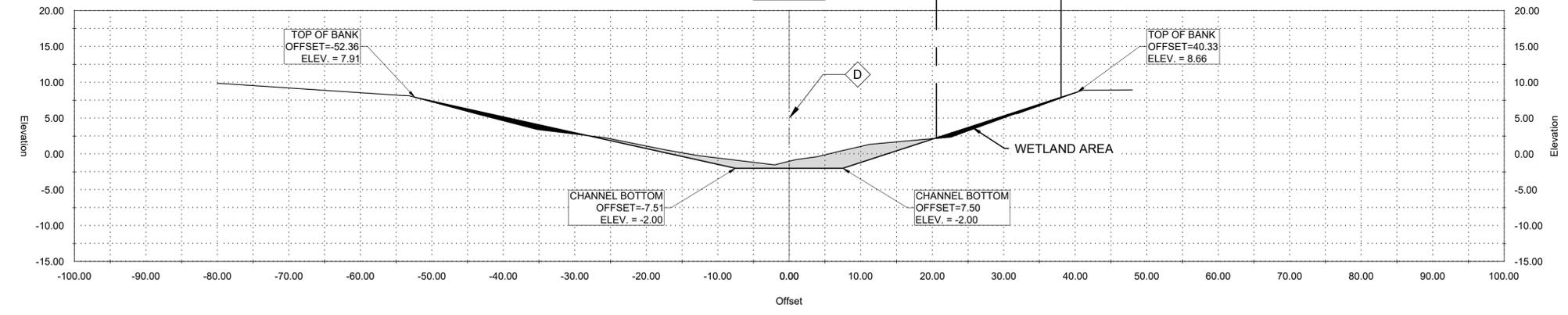


GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ϵ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 C - SURVEYED ϵ

AREA DRAINAGE EXCAVATION: 8.19 SY
 AREA EMBANKMENT: 0.00 SY

132+97.35

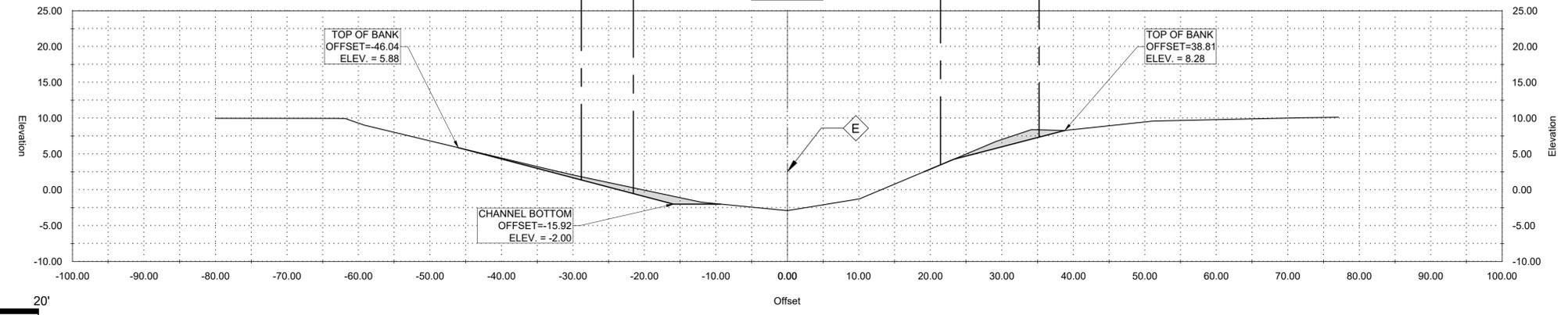


GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ϵ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 D - SURVEYED ϵ

AREA DRAINAGE EXCAVATION: 5.21 SY
 AREA EMBANKMENT: 1.56 SY

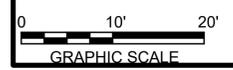
134+31.98

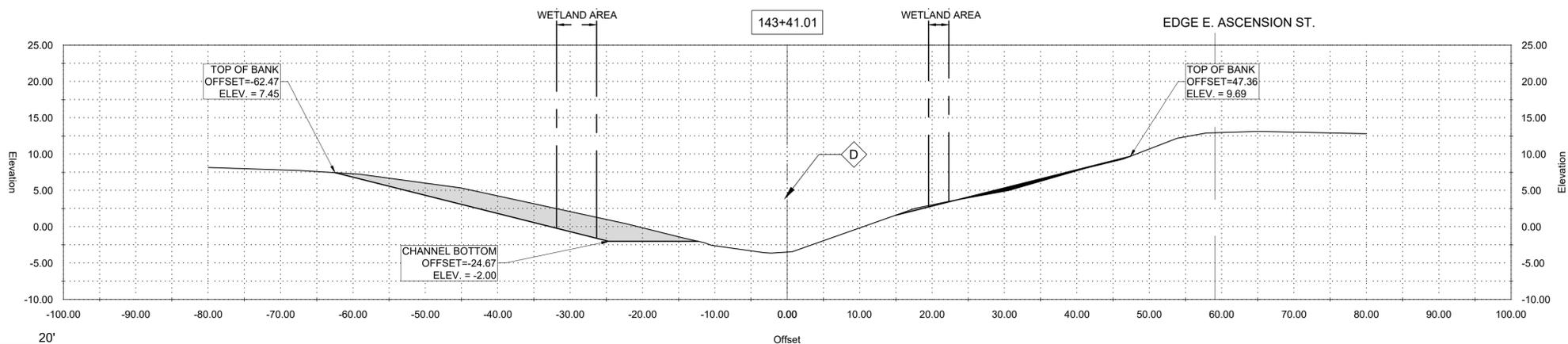
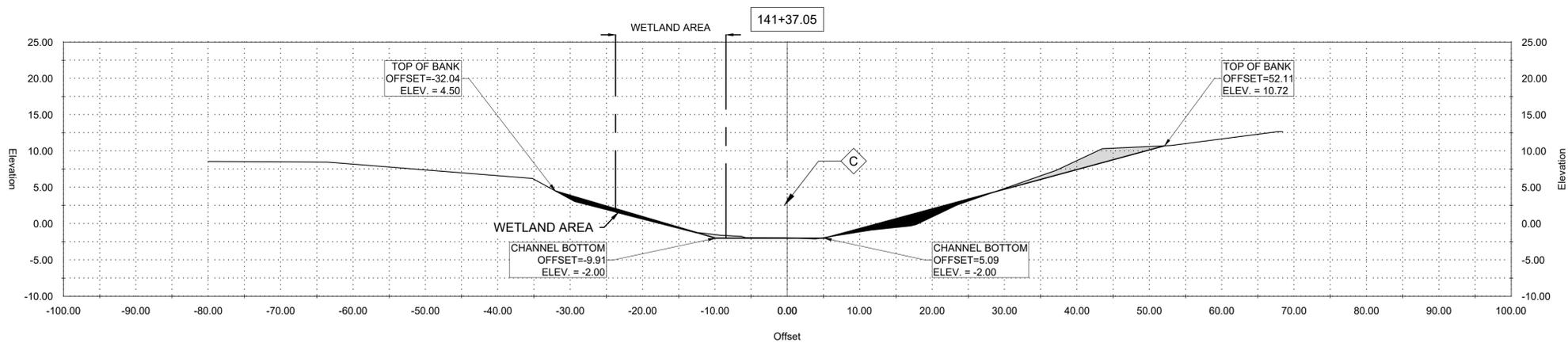
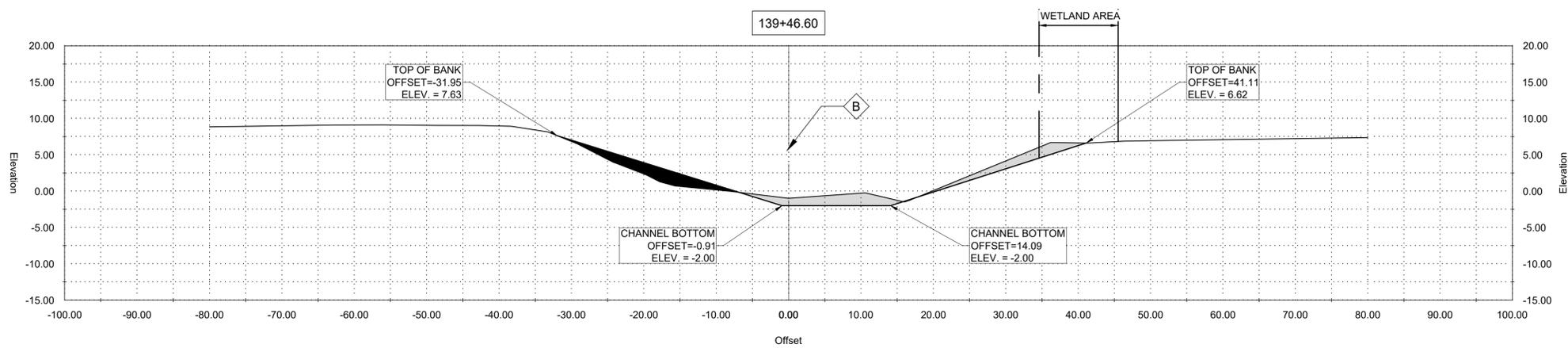
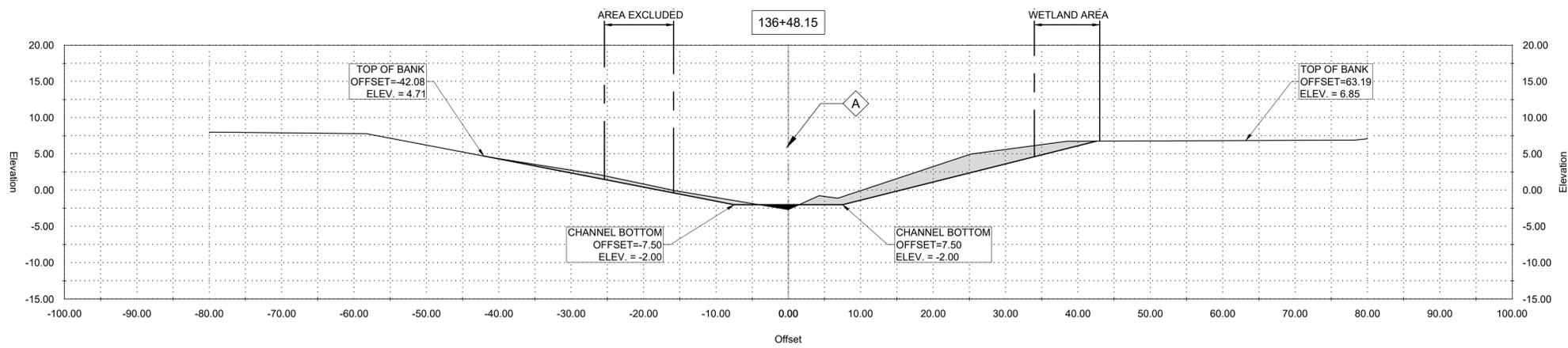


GENERAL NOTES:
 1. OFFSETS SHOWN ARE TO SURVEYED ϵ
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
 E - SURVEYED ϵ

AREA DRAINAGE EXCAVATION: 3.10 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: 8.51 SY
AREA EMBANKMENT: 0.21 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

☒ - SURVEYED ☒

AREA DRAINAGE EXCAVATION: 4.84 SY
AREA EMBANKMENT: 2.91 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

☒ - SURVEYED ☒

AREA DRAINAGE EXCAVATION: 2.42 SY
AREA EMBANKMENT: 2.50 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

☒ - SURVEYED ☒

AREA DRAINAGE EXCAVATION: 10.44 SY
AREA EMBANKMENT: 0.63 SY



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

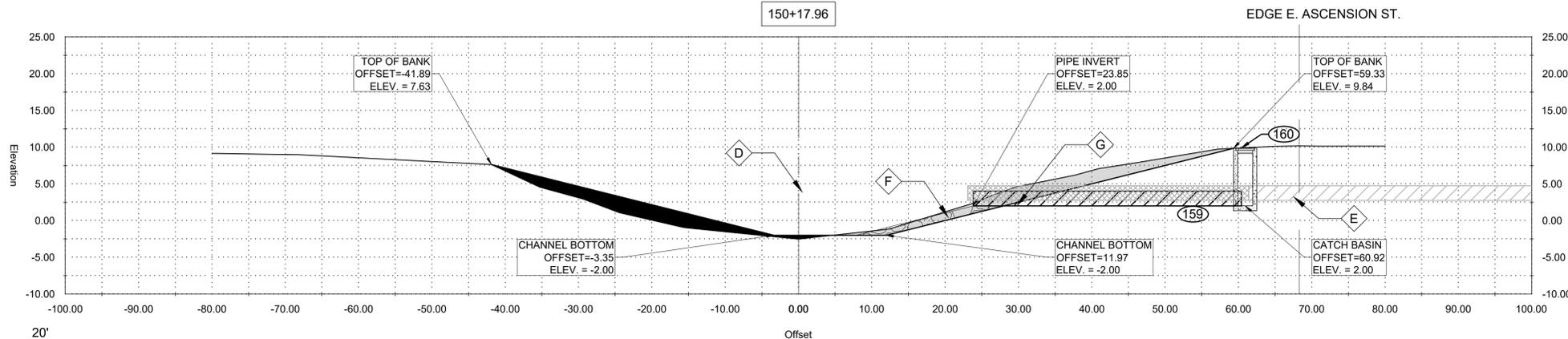
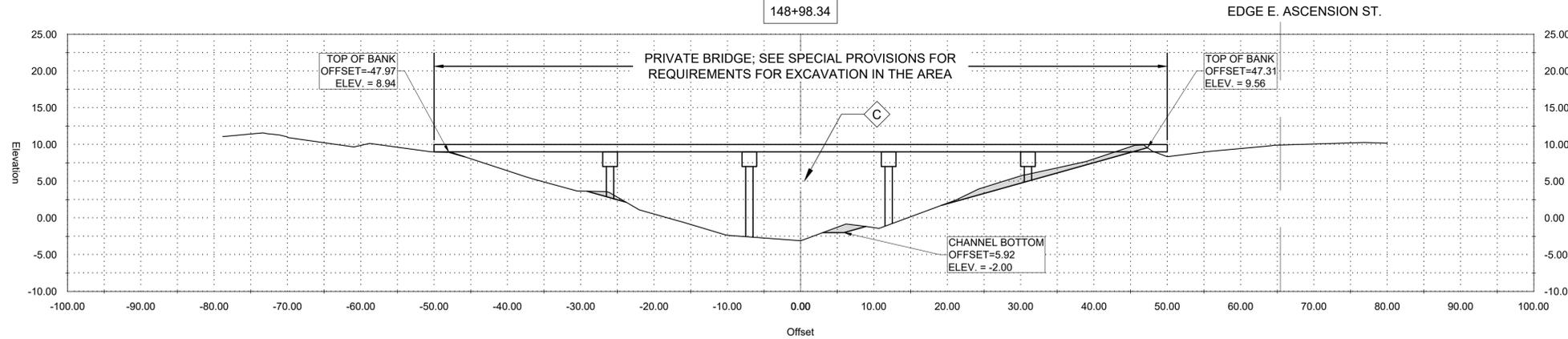
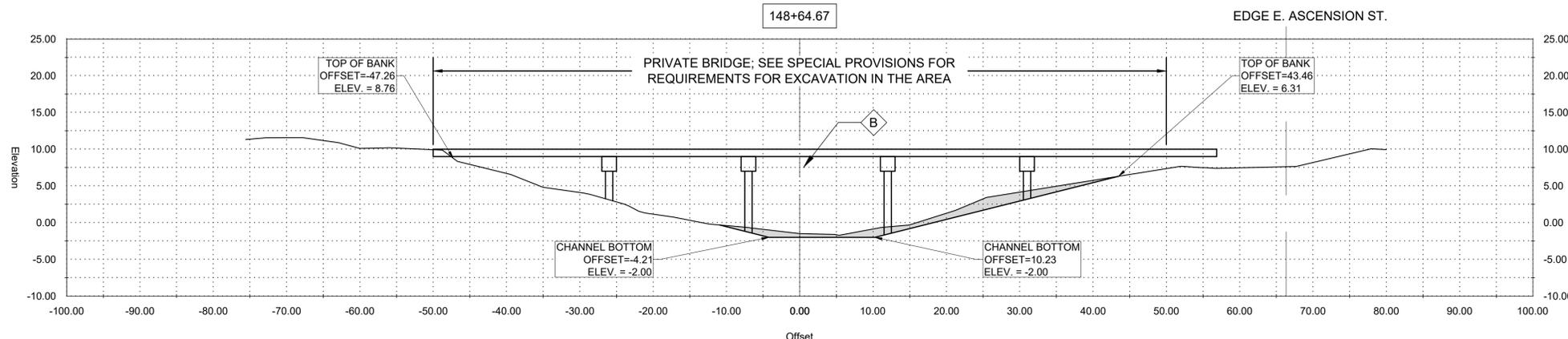
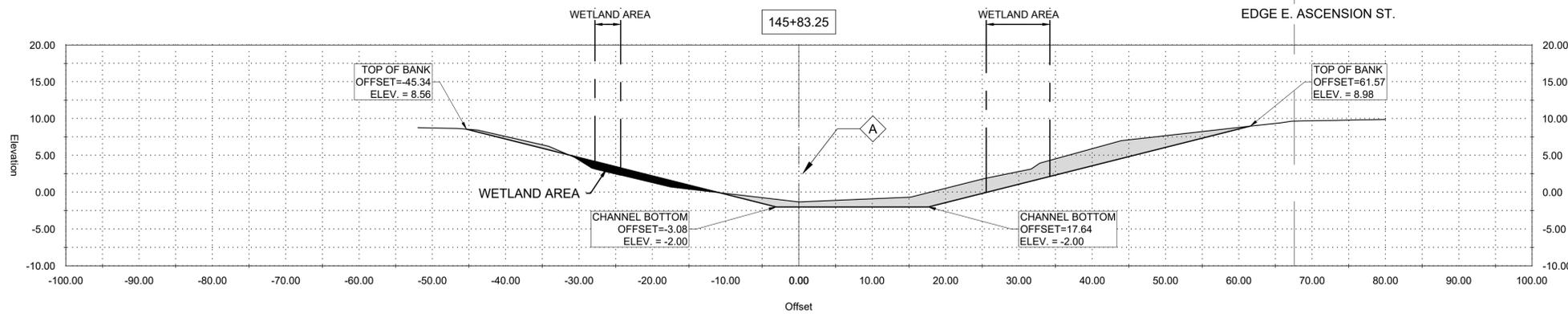
SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

DESIGNED BY:	DATE:	DETAILED 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
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: 11.74 SY
 AREA EMBANKMENT: 1.63 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: 4.56 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: 2.67 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
- ⬡ - EXISTING 24" CMP
- ⬡ - OUTFALL PROTECTION PER SHEET BM-02
- ⬡ - 24" PLASTIC PIPE EXTENSION 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: ANDREW FORD, E.I. PROJECT MANAGER
 SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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
 GONZALES



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

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



MARK	DESCRIPTION	DATE	BY	CHKD
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APRIL, 2019	DAM/ARF	ARF/RMM	ARF/RMM	DAM

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

SHEET ID
C29
SHEET SET
40 OF **84**

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

NOTES BY SYMBOL:
A - SURVEYED CL
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 CL
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:
C - SURVEYED CL
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 CL
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

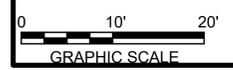
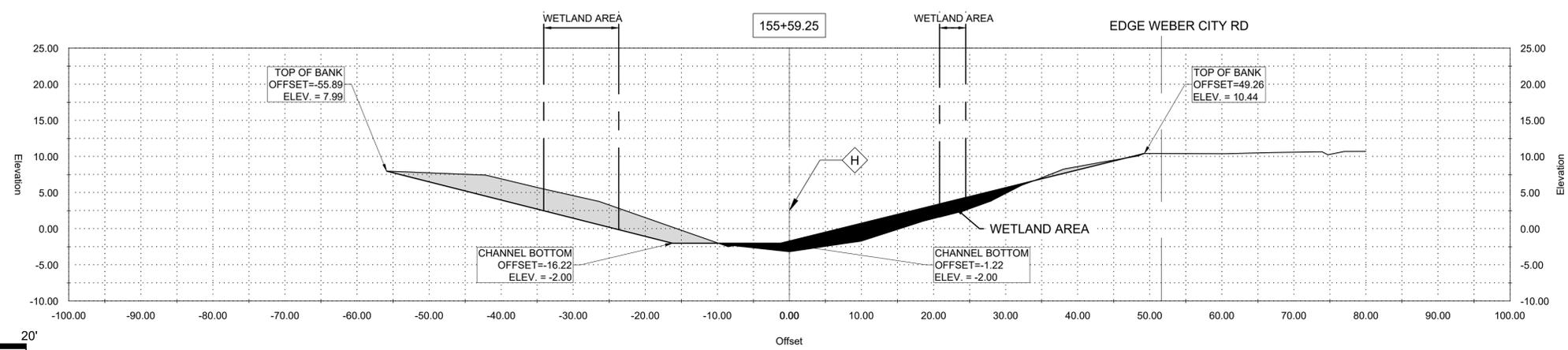
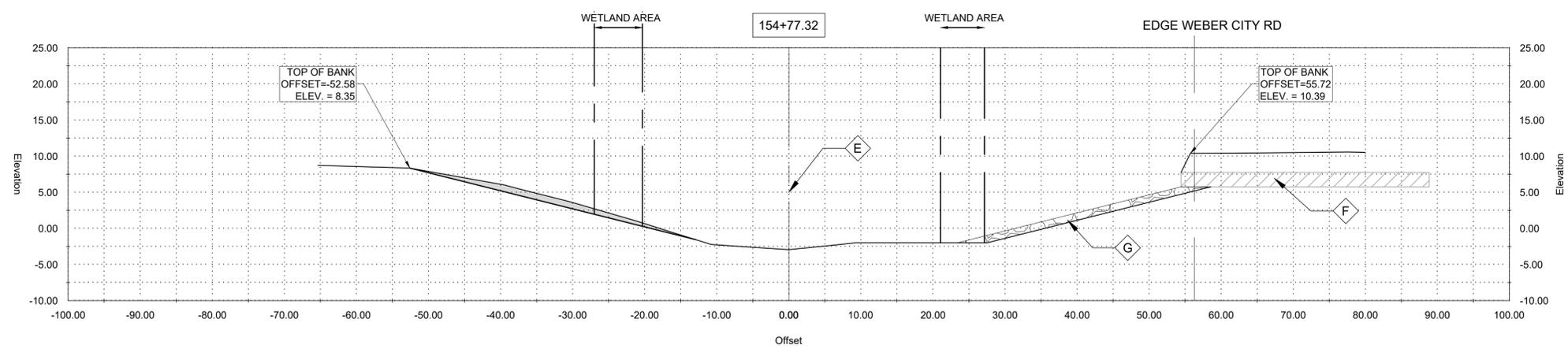
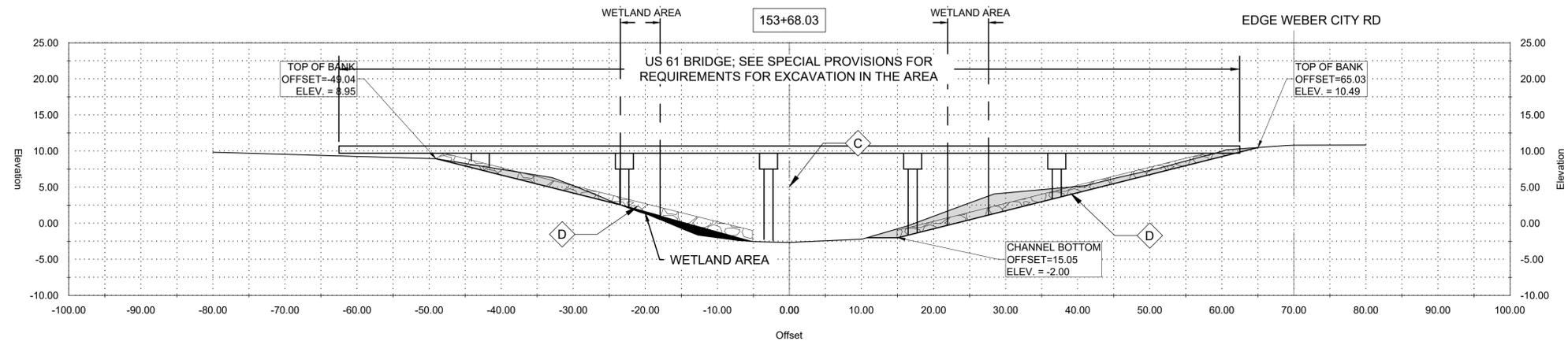
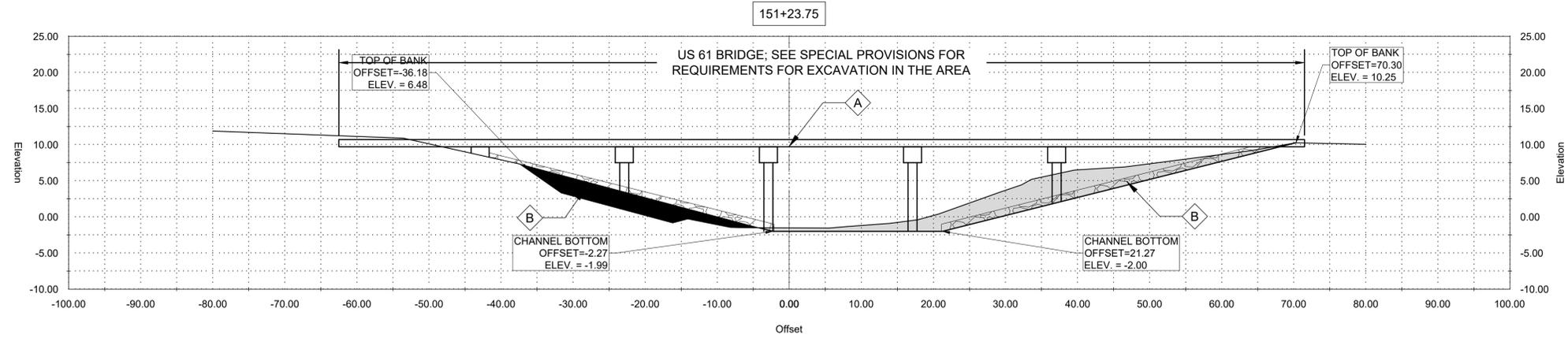
NOTES BY SYMBOL:
E - SURVEYED CL
F - EXISTING 24" RCP TO REMAIN
G - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 2.56 SY
AREA EMBANKMENT: 0.00 SY

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

NOTES BY SYMBOL:
H - SURVEYED CL

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



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

DESIGNED BY:	DRAWN BY:	CHECKED BY:	DAM
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

SHEET ID
C30
SHEET SET
41 OF **84**

REVISION RECORD

GENERAL NOTES:

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

NOTES BY SYMBOL:

☒ - SURVEYED ☒

AREA DRAINAGE EXCAVATION: 6.37 SY
AREA EMBANKMENT: 4.23 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

☒ - SURVEYED ☒

AREA DRAINAGE EXCAVATION: 4.55 SY
AREA EMBANKMENT: 7.69 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

- ☒ - SURVEYED ☒
- ☒ - EXISTING 24" RCP TO REMAIN
- ☒ - OUTFALL PROTECTION PER SHEET BM-02

AREA DRAINAGE EXCAVATION: 4.44 SY
AREA EMBANKMENT: 0.00 SY

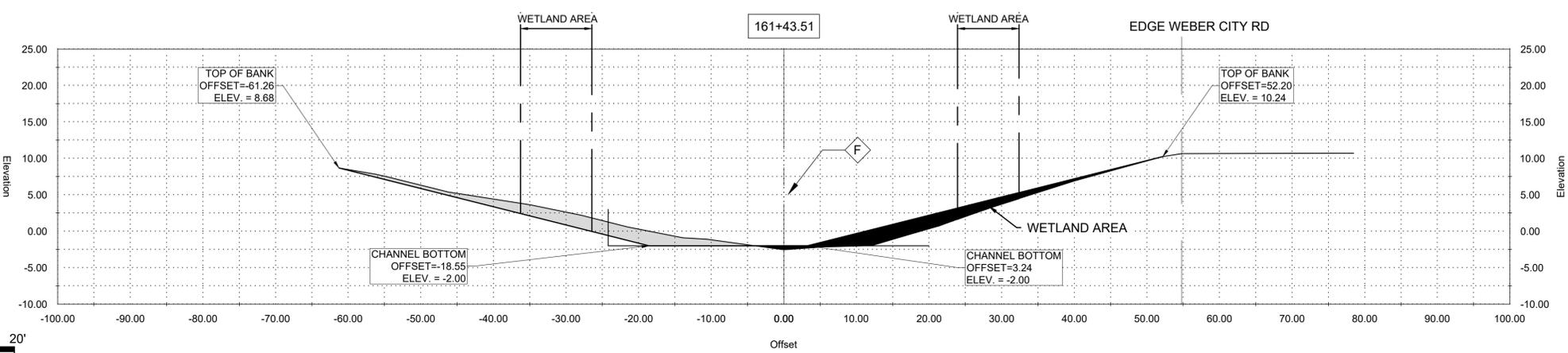
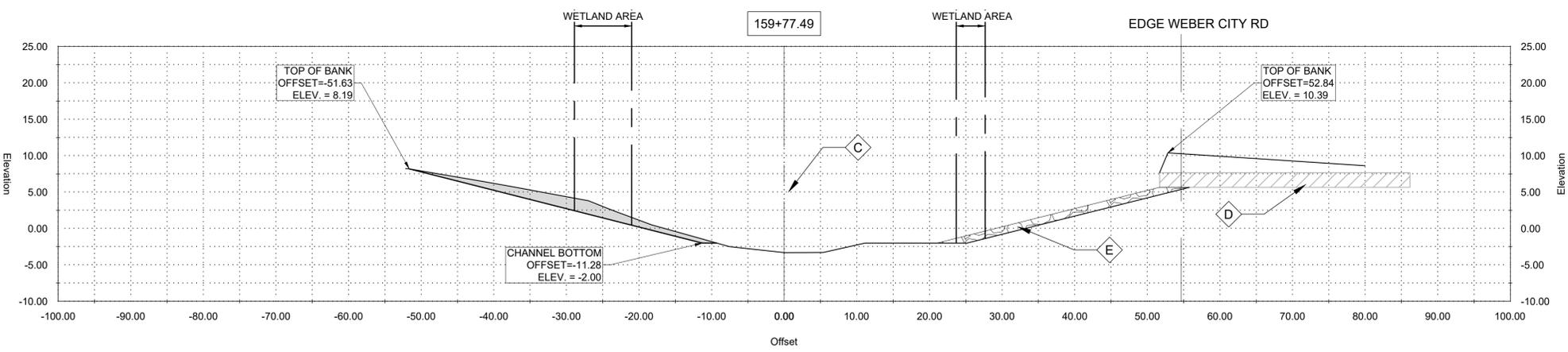
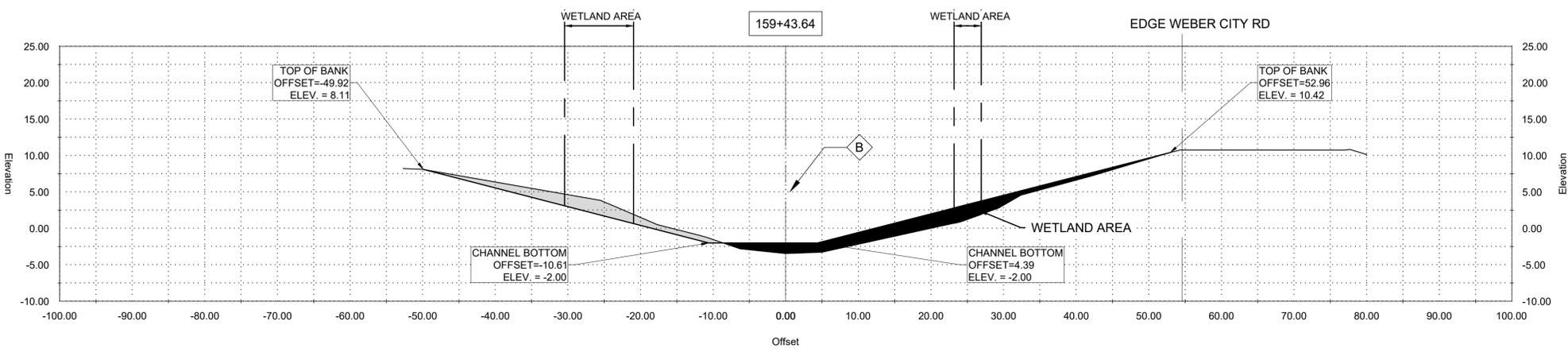
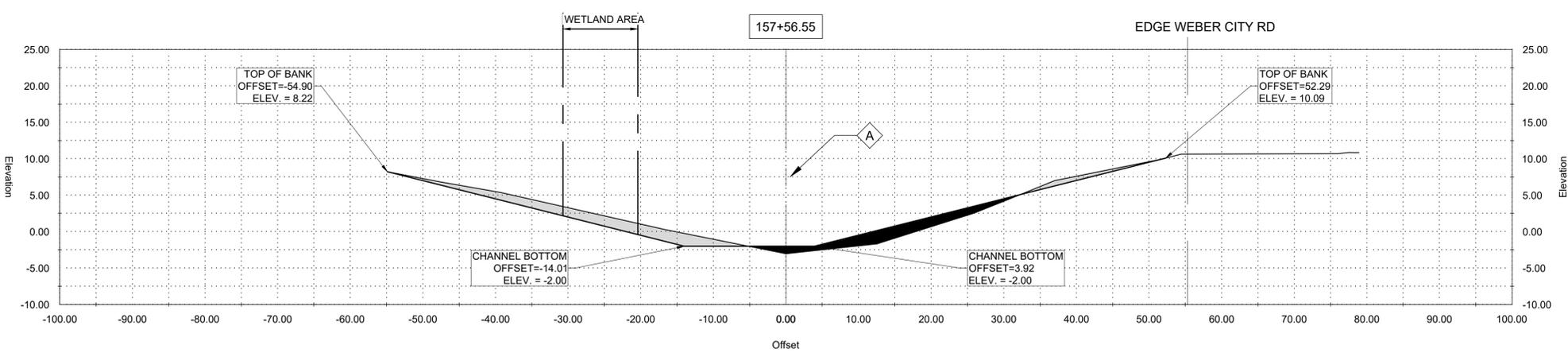
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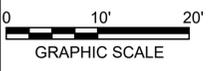
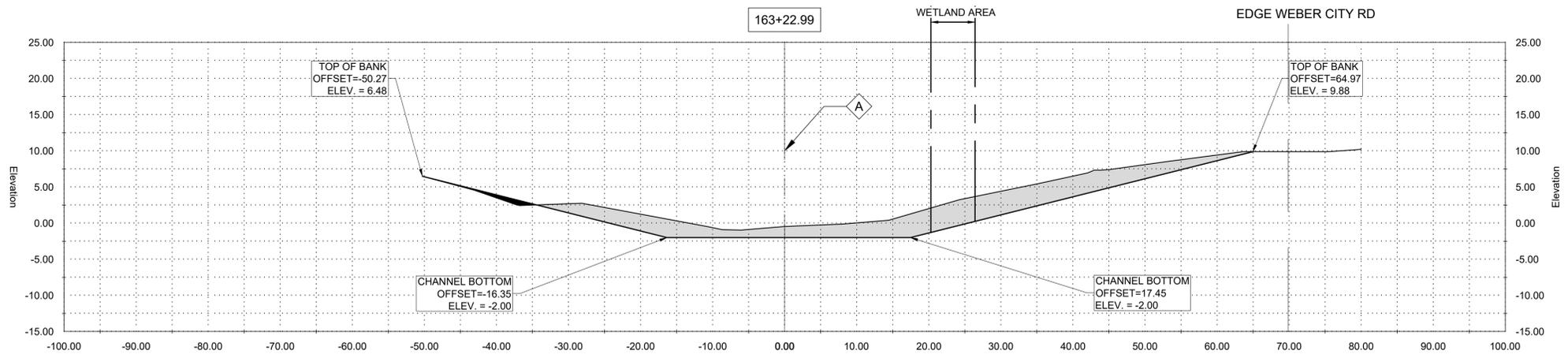
1. OFFSETS SHOWN ARE TO SURVEYED ☒
2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

☒ - SURVEYED ☒

AREA DRAINAGE EXCAVATION: 6.64 SY
AREA EMBANKMENT: 5.74





GENERAL NOTES:

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

NOTES BY SYMBOL:

A - SURVEYED CL

AREA DRAINAGE EXCAVATION: 22.91 SY
 AREA EMBANKMENT: 0.44 SY



SUBMITTED BY:
 ANDREW FORD, E.I.
 PROJECT MANAGER
 LICENSE NO. 27823

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 27823



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

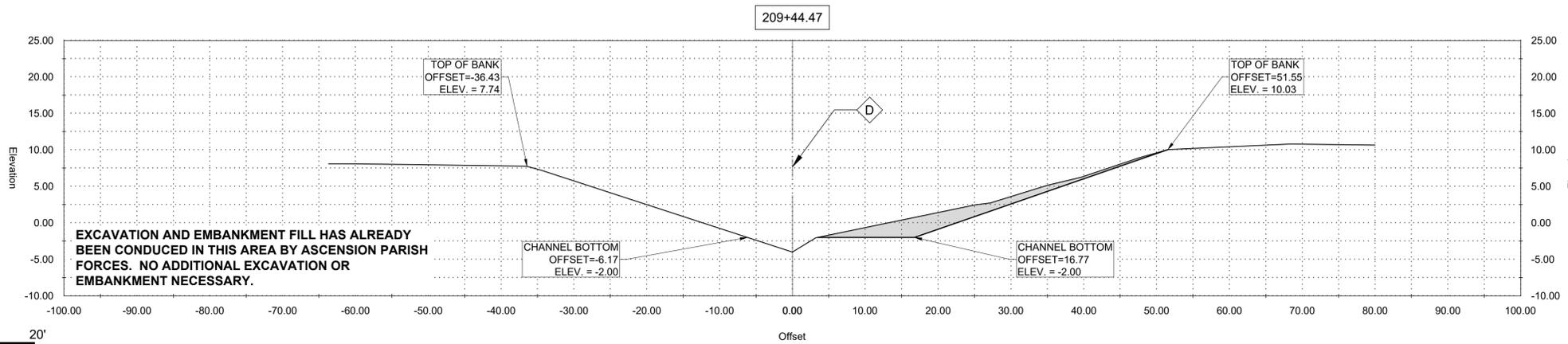
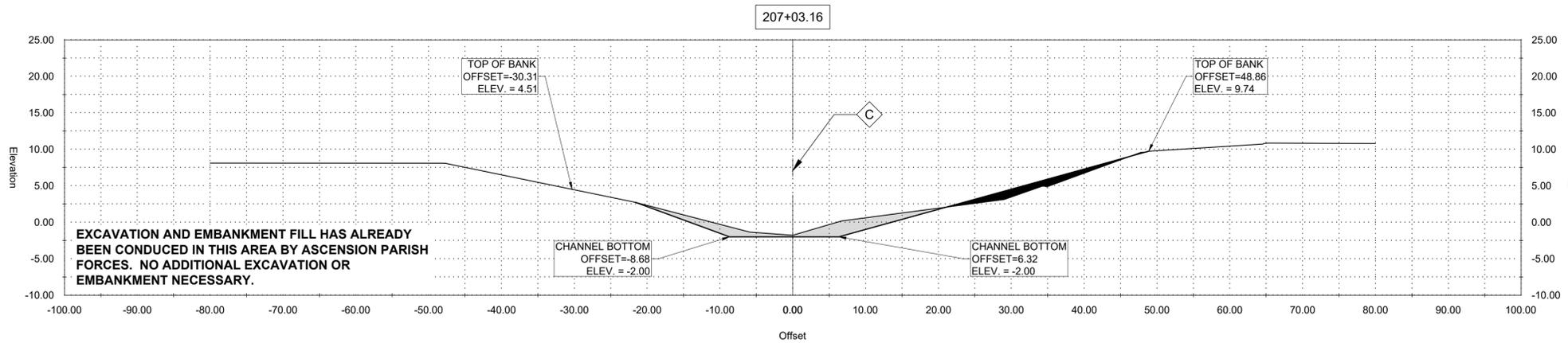
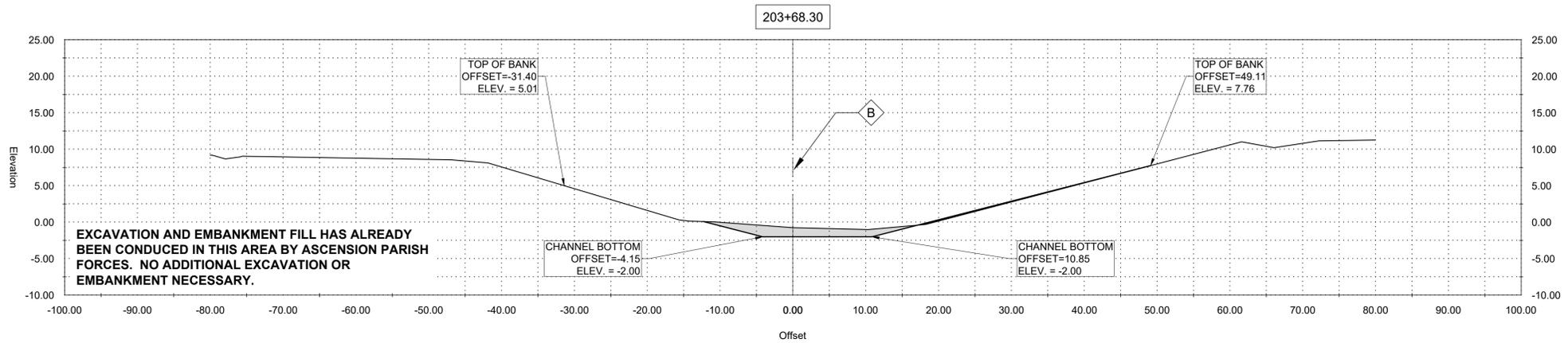
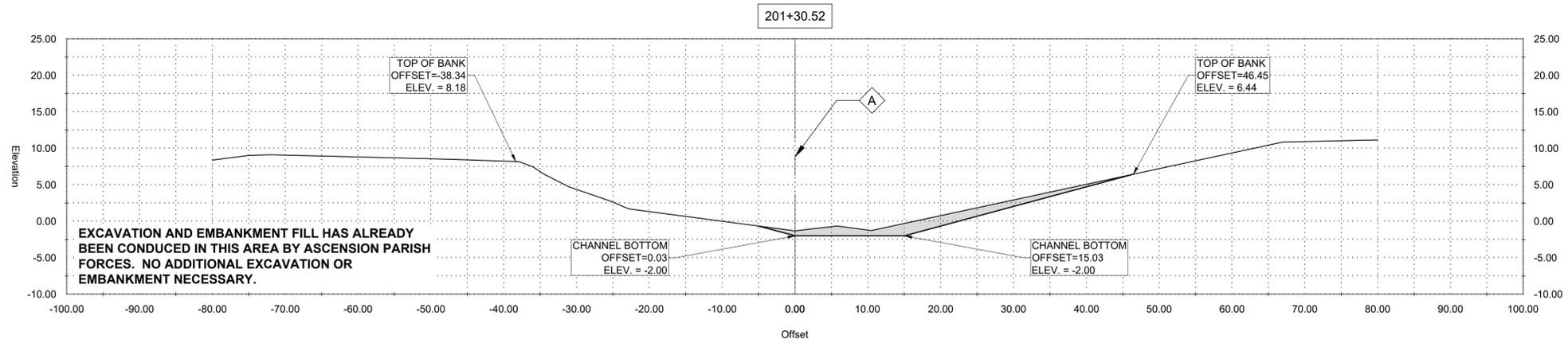
DESIGNED BY: DAM/ARF
 DRAWN BY: ARF/RMM
 CHECKED BY: DAM

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 **84**



GENERAL NOTES:

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

NOTES BY SYMBOL:

☒ - SURVEYED ☒

AREA DRAINAGE EXCAVATION: 3.59 SY
AREA EMBANKMENT: 5.62 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

☒ - SURVEYED ☒

AREA DRAINAGE EXCAVATION: 2.80 SY
AREA EMBANKMENT: 1.48 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

☒ - SURVEYED ☒

AREA DRAINAGE EXCAVATION: 2.00 SY
AREA EMBANKMENT: 3.13 SY

GENERAL NOTES:

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

NOTES BY SYMBOL:

☒ - SURVEYED ☒

AREA DRAINAGE EXCAVATION: 5.29 SY
AREA EMBANKMENT: 5.80



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

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL
LICENSE NO. 27823

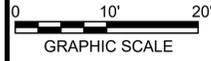
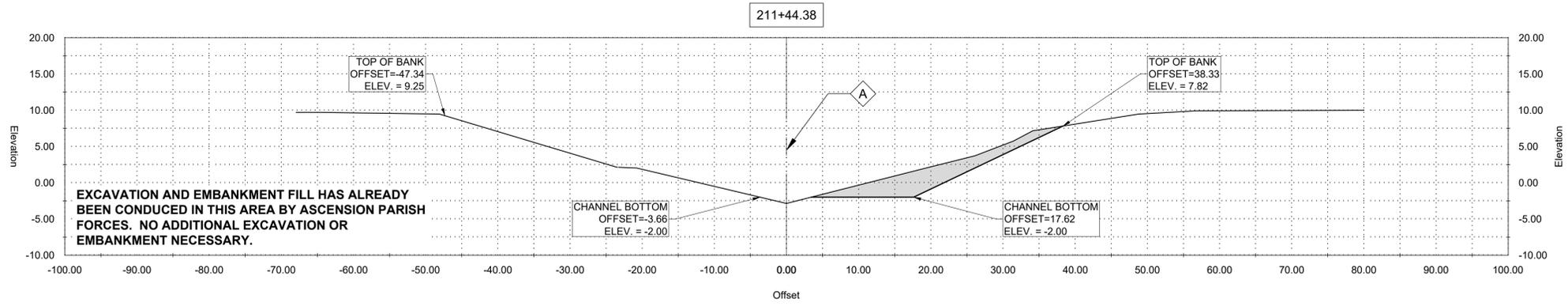


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

REVISION RECORD

DESIGNED BY:	DAM/ARF	CHECKED BY:	DAM
DATE:	APRIL, 2019	DRAWN BY:	ARF/RMM
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 C
 2. SEE PLAN AND PROFILE FOR ADDITIONAL REQUIREMENTS

NOTES BY SYMBOL:

A - SURVEYED C

AREA DRAINAGE EXCAVATION: 6.86 SY
 AREA EMBANKMENT: 3.02 SY



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

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

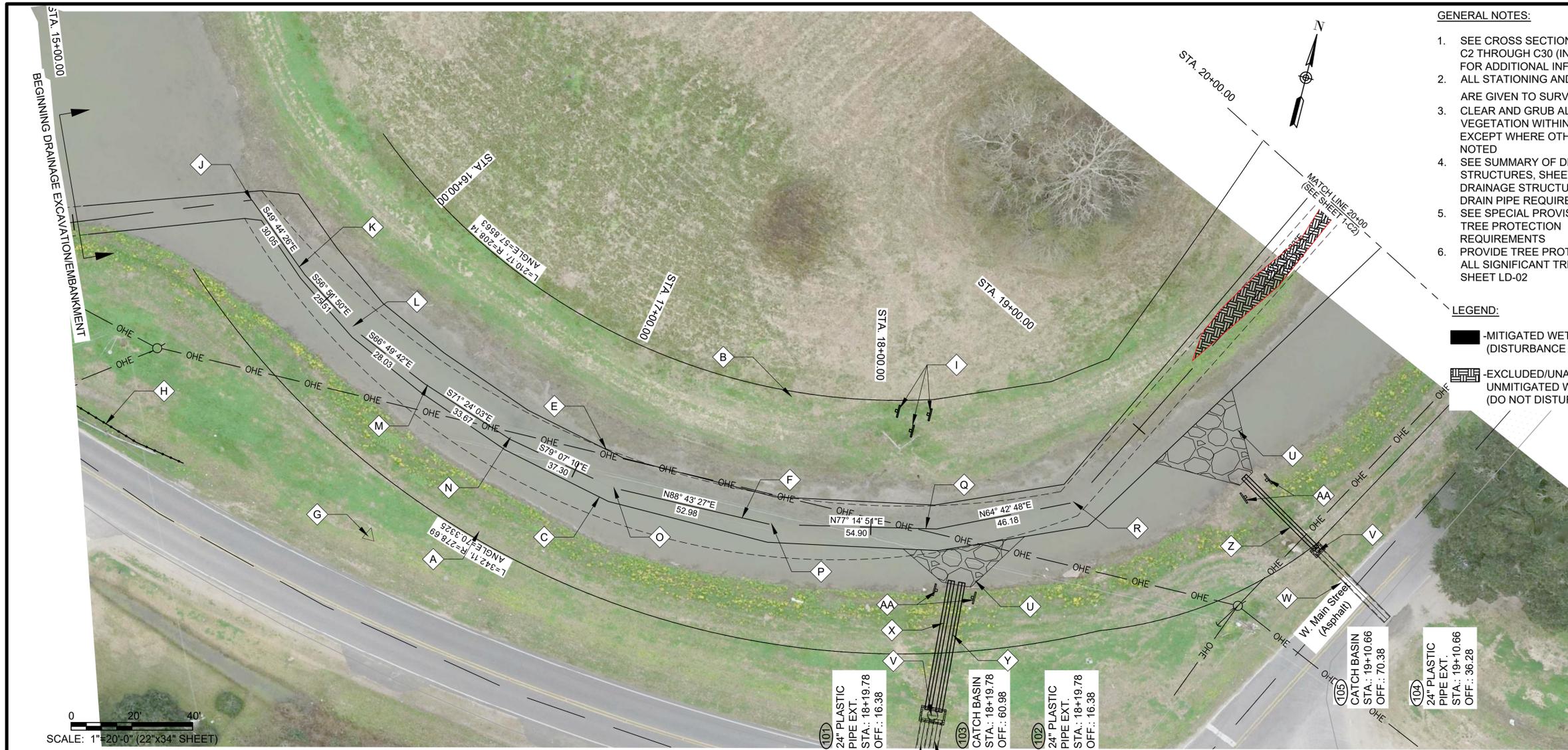


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DESIGNED BY:	DAM/ARF
DRAWN BY:	ARF/RMM
CHECKED BY:	DAM

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
 CROSS SECTIONS



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

LEGEND:

- MITIGATED WETLANDS (DISTURBANCE ALLOWED)
- EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)

NOTES BY SYMBOL:

- TOP OF BANK (R.T.)
- TOP OF BANK (L.T.)
- BOTTOM OF CHANNEL (R.T.)
- BOTTOM OF CHANNEL (EL. -2.0, \bar{C} OF NEW RIVER)
- BOTTOM OF CHANNEL (L.T.)
- SURVEYED \bar{C} OF NEW RIVER
- CONTROL POINT (BY SURVEYOR), SEE SURVEY FOR GEOMETRY
- EXISTING GUARD RAIL (TO REMAIN)
- EXISTING OBJECT MARKERS (TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING)
- P.I. STA. 15+59.21 (N: 630345.9378, E: 3402986.8922)
- P.I. STA. 15+89.26 (N: 630326.5207, E: 3403009.8210)
- P.I. STA. 16+14.77 (N: 630312.5755, E: 3403031.1834)
- P.I. STA. 16+42.79 (N: 630301.5470, E: 3403056.9501)
- P.I. STA. 16+76.47 (N: 630290.8076, E: 3403088.8632)
- P.I. STA. 17+13.77 (N: 630283.7666, E: 3403125.4938)
- P.I. STA. 17+66.75 (N: 630284.9463, E: 3403178.4606)
- P.I. STA. 18+21.65 (N: 630297.0652, E: 3503232.0073)
- P.I. STA. 18+67.83 (N: 630316.7930, E: 3403273.7669)
- EXISTING 24" RCPA TO REMAIN, INV. 6.89
- EXISTING 24" RCPA TO REMAIN, INV. 7.12
- OUTLET PROTECTION PER SHEET BM-02
- CATCH BASIN
- EXISTING 24" RCPA TO REMAIN, INV. 7.63
- (101)
- (102)
- (104)
- OBJECT MARKER PER DETAIL



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

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

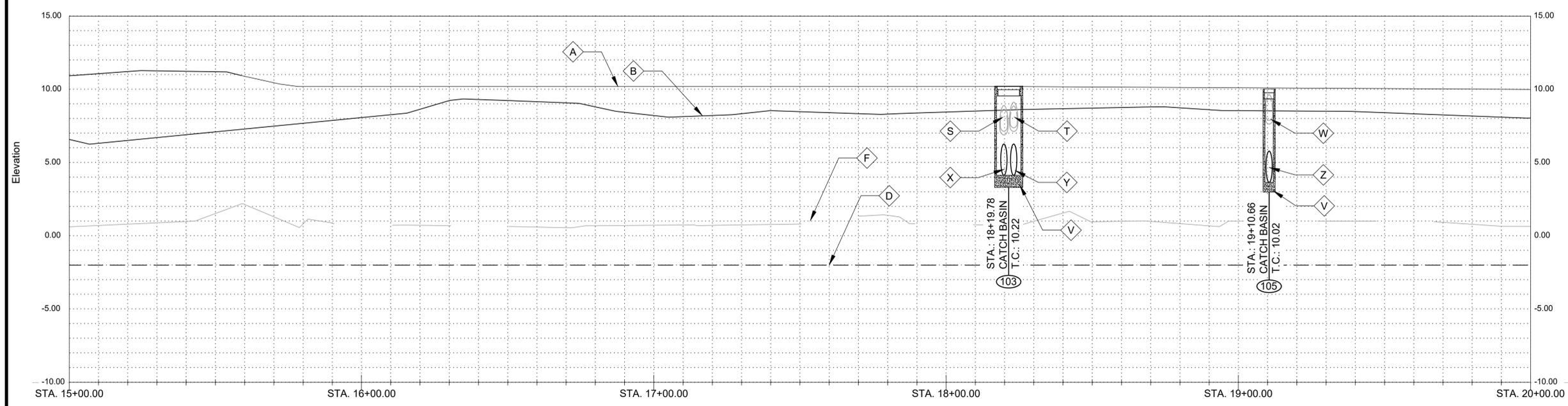


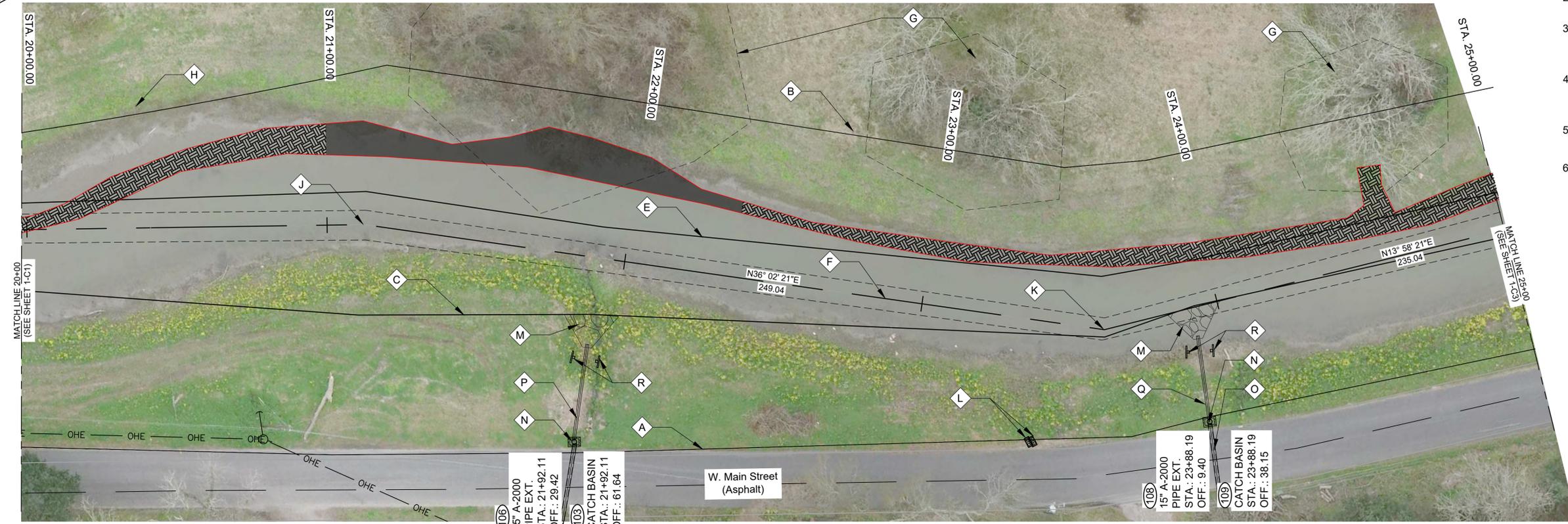
MARK	DESCRIPTION	DATE	BY	REVISION RECORD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	

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

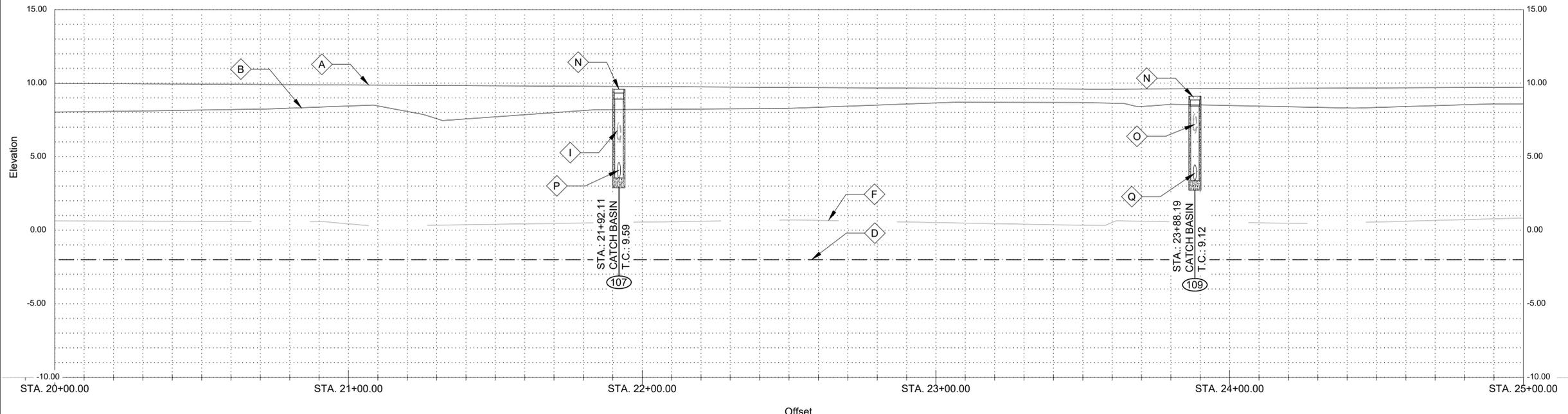
NEW RIVER CHANNEL IMPROVEMENTS
LOUISIANA
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
PLAN & PROFILE

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





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



- GENERAL NOTES:**
- SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ∇ .
 - 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 - VEGETATION (SEE NOTE #3)
 - ∇ H - EXISTING GAS LINE, GULF SOUTH PIPELINE, TO REMAIN. DEPTH AND SIZE UNKNOWN
 - ∇ I - EXISTING 12" RCP, TO REMAIN, INV. 6.00
 - ∇ J - P.I. STA. 21+12.31 (N: 630534.3791, E: 3403385.2349)
 - ∇ K - P.I. STA. 23+61.35 (N: 630735.7552, E: 3403531.7536)
 - ∇ L - MAILBOX, TO REMAIN
 - ∇ M - OUTLET PROTECTION PER SHEET BM-02
 - ∇ N - CATCH BASIN
 - ∇ O - EXISTING 12" RCP, TO REMAIN, INV. 6.60
 - ∇ P - (106)
 - ∇ Q - (108)
 - ∇ R - OBJECT MARKER PER DETAIL 100 C-1

- LEGEND:**
- MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 - EXCLUDED/UNAFFECTED/UNMITIGATED WETLANDS (DO NOT DISTURB)



SUBMITTED BY:
 ANDREW E. COLE, E.I.
 PROJECT MANAGER
 LICENSE NO. 27823

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 27823

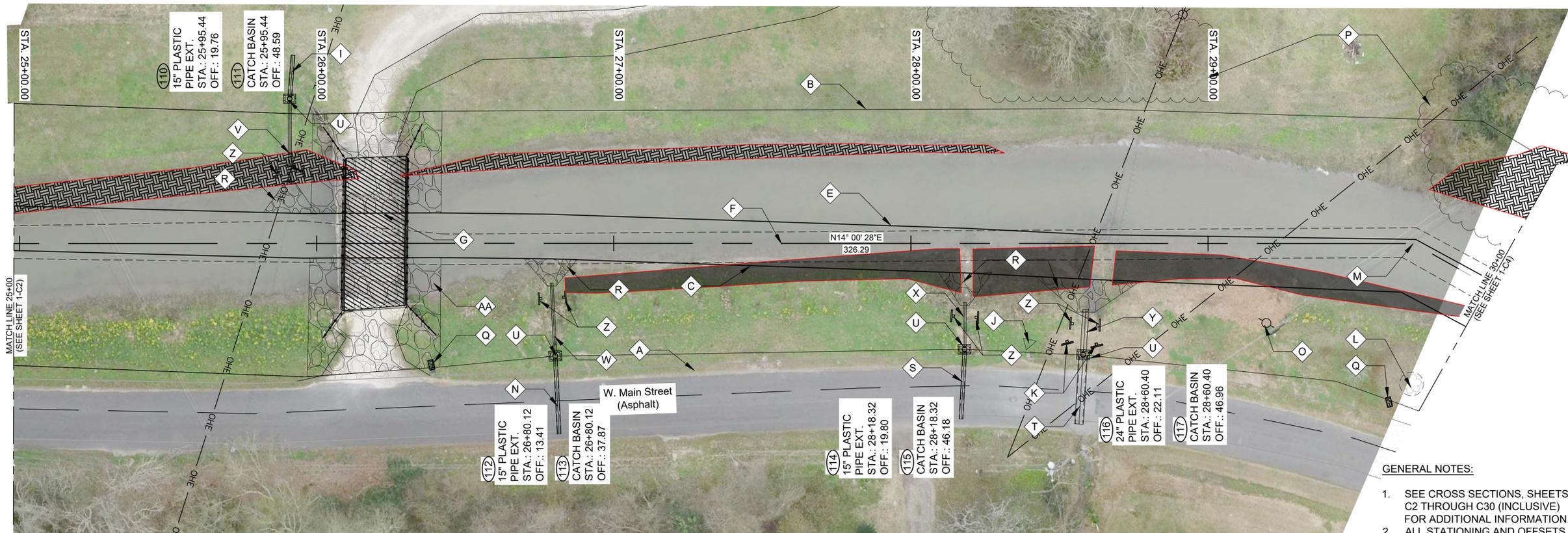


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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

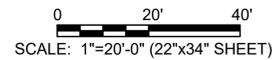
DATE: APRIL, 2019
 DETAILED BY: ARF/RMM
 HDC PROJECT NO. 2017-14

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

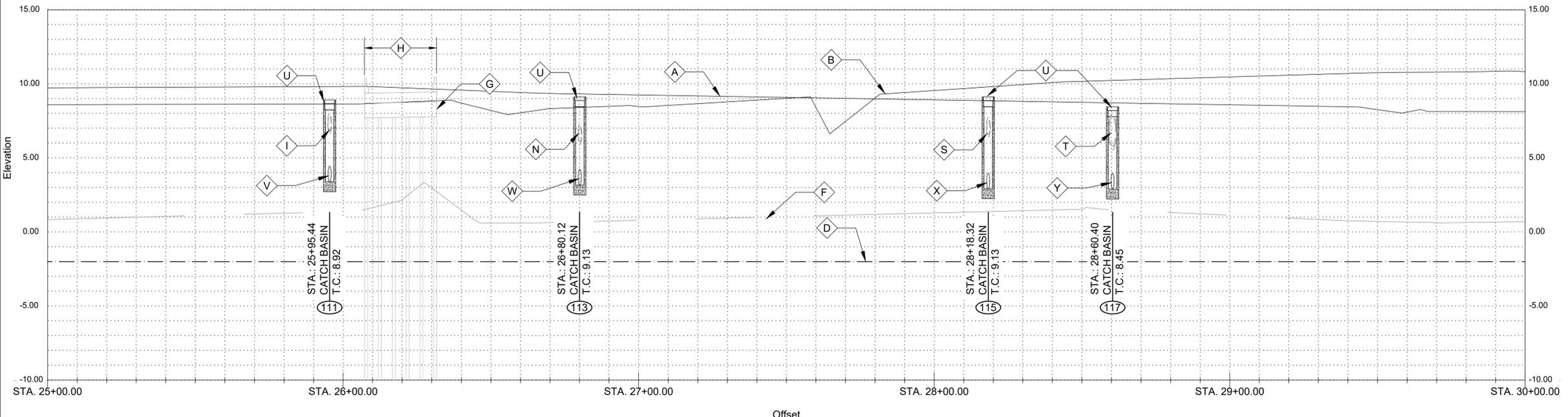


- GENERAL NOTES:**
1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED CL.
 2. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
 3. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE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

- LEGEND:**
- -MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 - ▨ -EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)



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



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

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

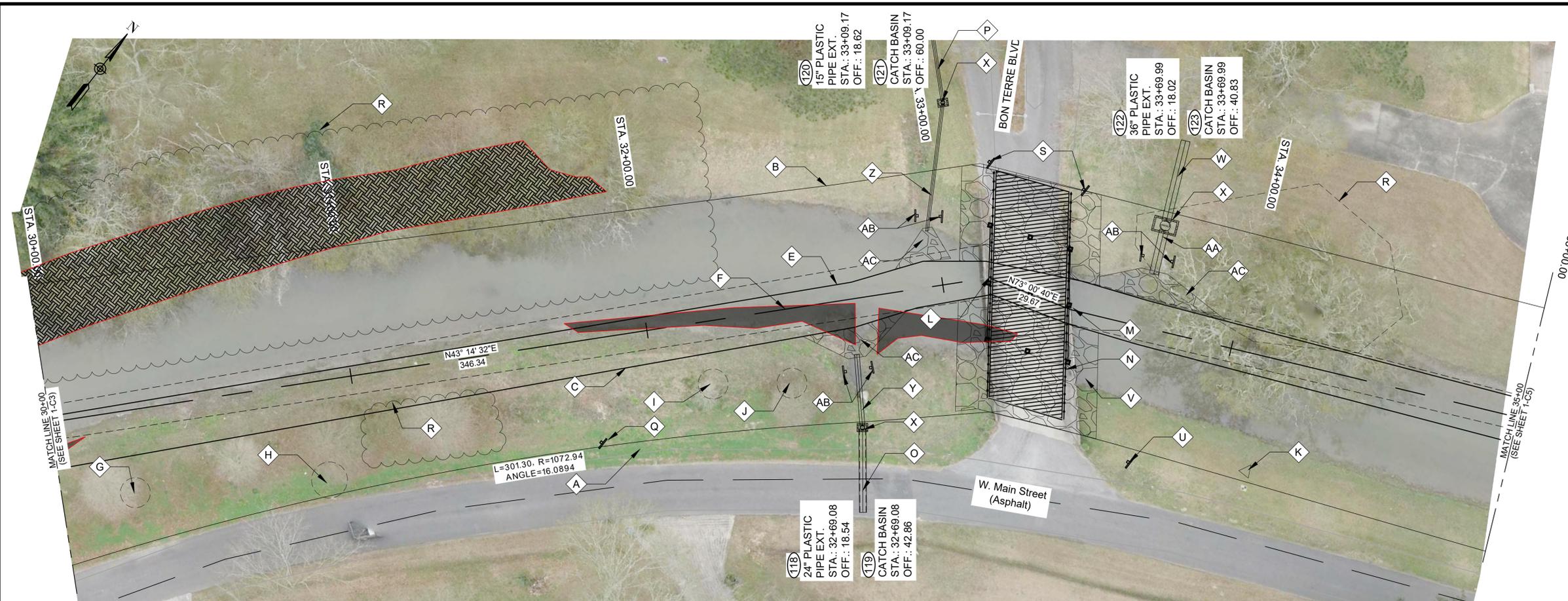


DATE	DESCRIPTION	BY	CHKD
07/2021	RELEASED FOR BIDS & CONSTRUCTION	RM	HDC

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

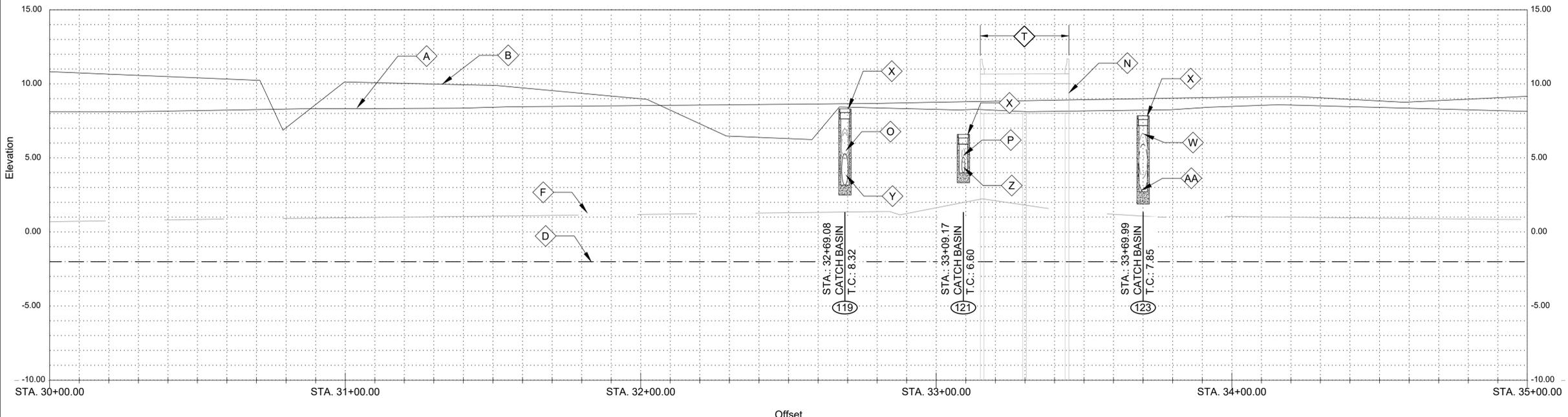


- NOTES BY SYMBOL:**
- ◇ A - TOP OF BANK (R.T.)
 - ◇ B - TOP OF BANK (L.T.)
 - ◇ C - BOTTOM OF CHANNEL (R.T.)
 - ◇ D - BOTTOM OF CHANNEL (EL. -2.0, \bar{C} OF NEW RIVER)
 - ◇ E - BOTTOM OF CHANNEL (L.T.)
 - ◇ F - SURVEYED \bar{C} OF NEW RIVER
 - ◇ G - 18" CYPRESS, TO REMAIN
 - ◇ H - 24" CYPRESS, TO REMAIN
 - ◇ 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:**
- 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
- LEGEND:**
- -MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 - ▨ -EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)



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



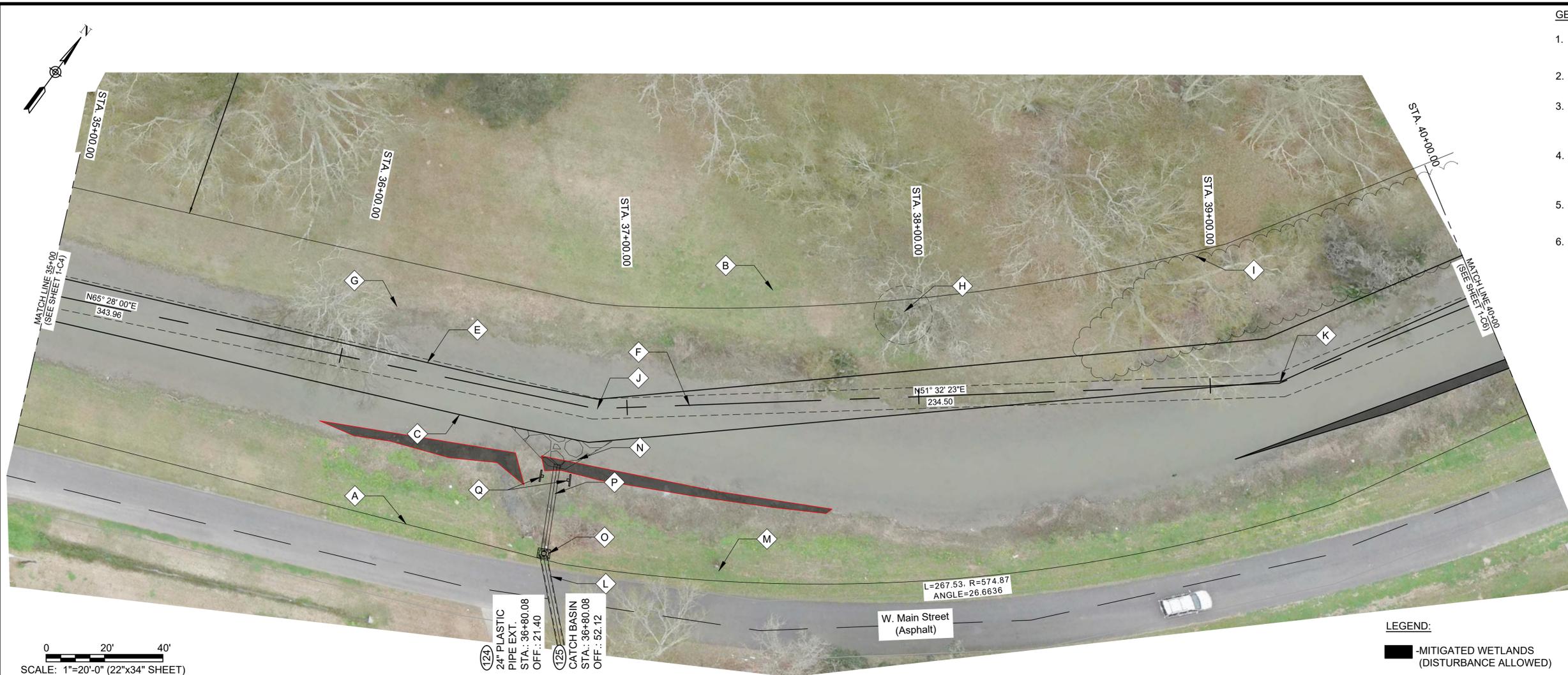
SUBMITTED BY: ANDREW LEON, E.I. PROJECT MANAGER	LICENSE NO. 37823
SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL	LICENSE NO. 27823



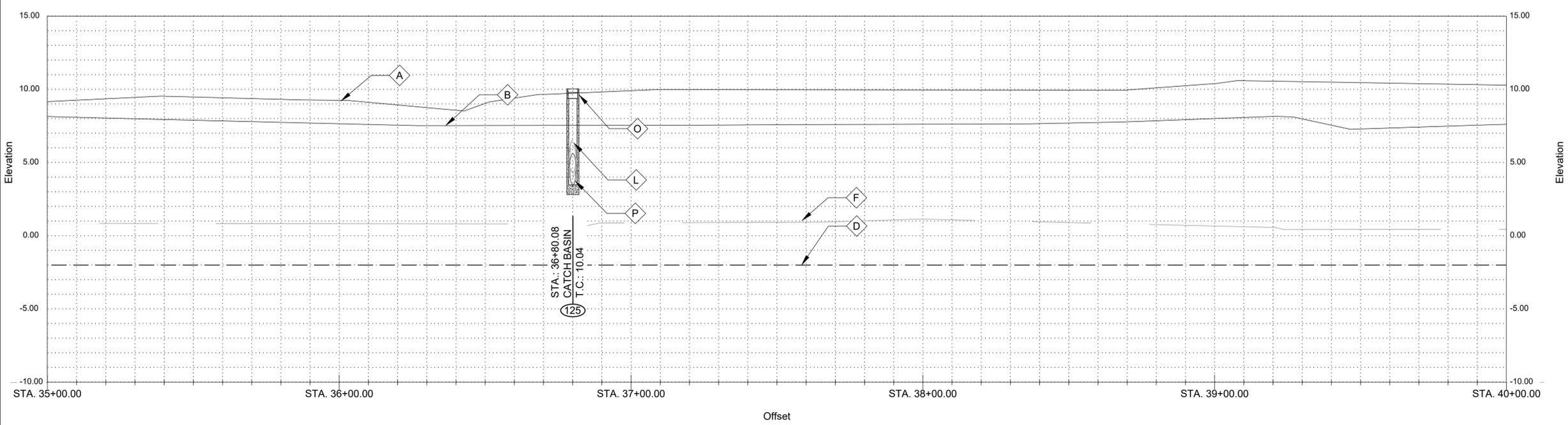
MARK	DESCRIPTION	DATE	BY	REVISION RECORD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

DESIGNED BY: DAM/ARF	DATE: APRIL, 2019
DRAWN BY: ARF/RMM	DETAILED BY: ARF/RMM
CHECKED BY: HDC	PROJECT NO. 42077
	DATE: 2017-14

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" (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} .
 - 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, \bar{C} OF NEW RIVER)
 - ◊ E - BOTTOM OF CHANNEL (L.T.)
 - ◊ F - SURVEYED \bar{C} OF NEW RIVER
 - ◊ G - 24" SYCAMORE, TO REMAIN
 - ◊ H - 48" SYCAMORE, TO REMAIN
 - ◊ I - VEGETATION (SEE NOTE #3)
 - ◊ J - P.I. STA. 36+89.18 (N: 631729.3852, E: 3404257.2308)
 - ◊ K - P.I. STA. 39+23.68 (N: 631875.2357, E: 3404440.8505)
 - ◊ L - EXISTING 24" RCP, TO REMAIN, INV. 4.50
 - ◊ M - TELEPHONE POLE, TO REMAIN
 - ◊ N - OUTFALL PROTECTION PER SHEET BM-02
 - ◊ O - CATCH BASIN
 - ◊ P - (124)
 - ◊ Q - OBJECT MARKER PER DETAIL 100 C-1

- LEGEND:**
- - MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 - ▨ - EXCLUDED/UNAFFECTED/UNMITIGATED WETLANDS (DO NOT DISTURB)



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

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

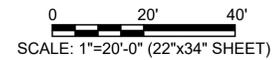
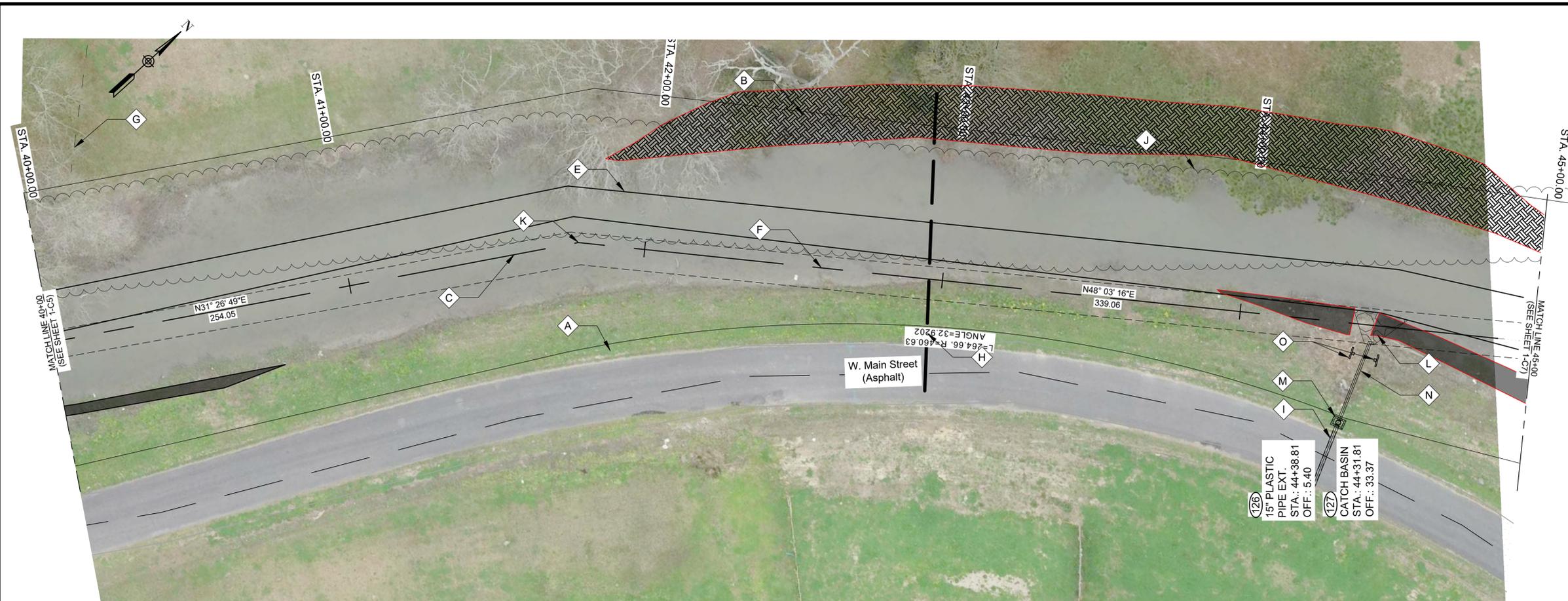


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

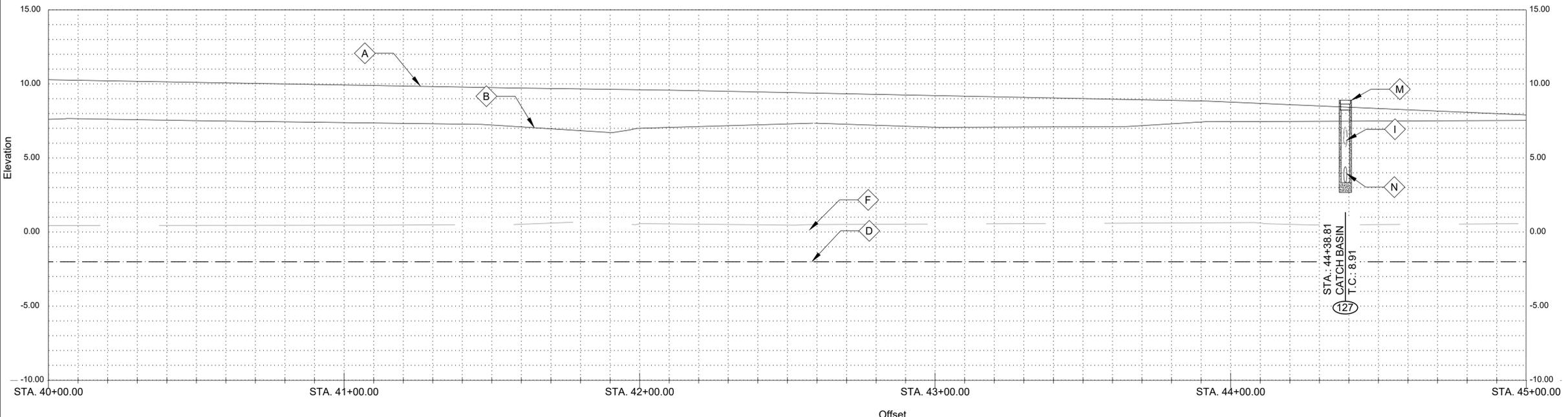
DESIGNED BY:	DRAWN BY:	CHECKED BY:
DAM/ARF	ARF/RMM	DAM

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
 PLAN & PROFILE



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 - 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

- LEGEND:**
- MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 - EXCLUDED/UNAFFECTED/UNMITIGATED WETLANDS (DO NOT DISTURB)



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

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

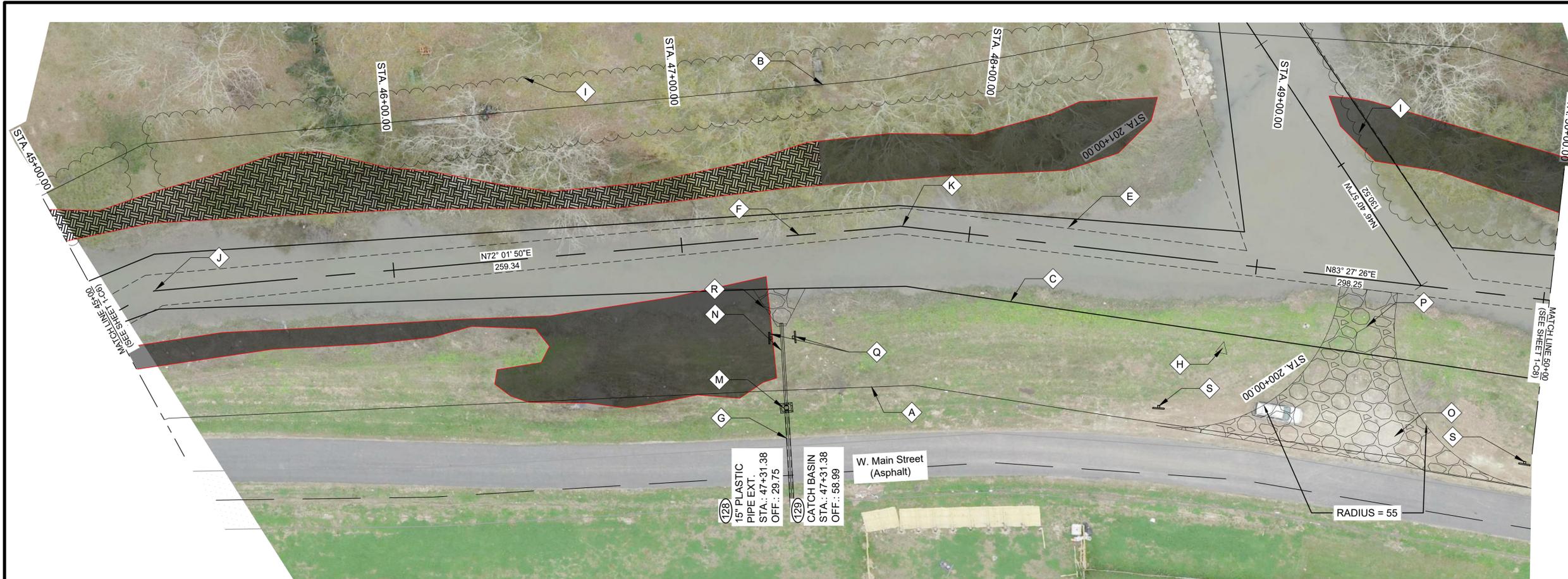


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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
 PLAN & PROFILE



- 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 - 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

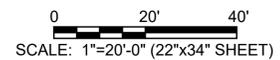
GENERAL NOTES:

1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION. 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.

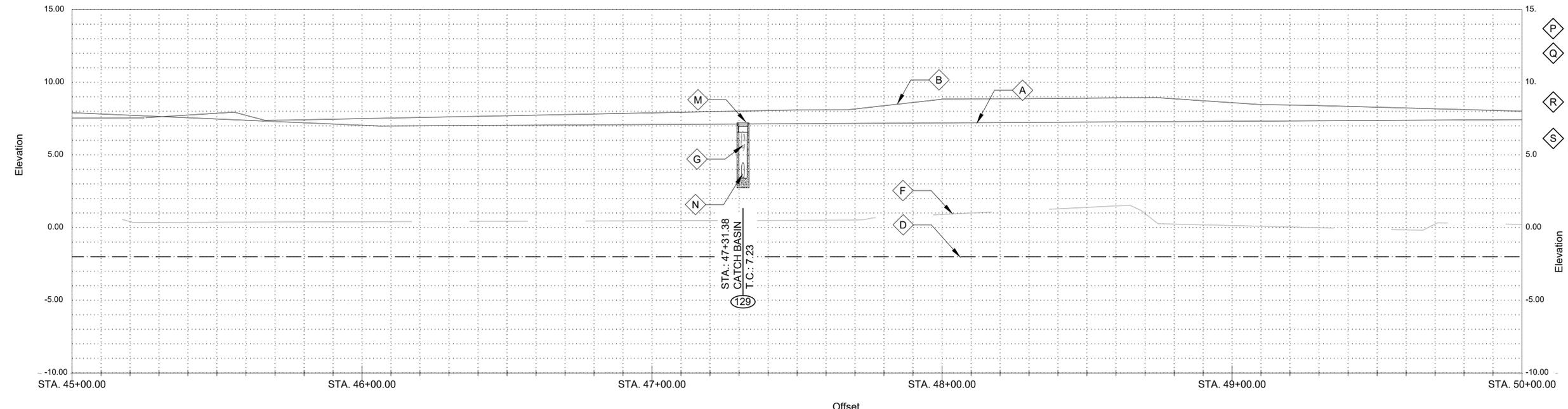
5. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
6. PROVIDE TREE PROTECTION AT ALL SIGNIFICANT TREES PER SHEET LD-02

LEGEND:

- -MITIGATED WETLANDS (DISTURBANCE ALLOWED)
- ▨ -EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)



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



SUBMITTED BY:
 ANDREW E. COLE, E.I.
 PROJECT MANAGER
 LICENSE NO. 27823

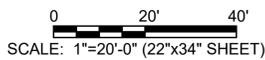
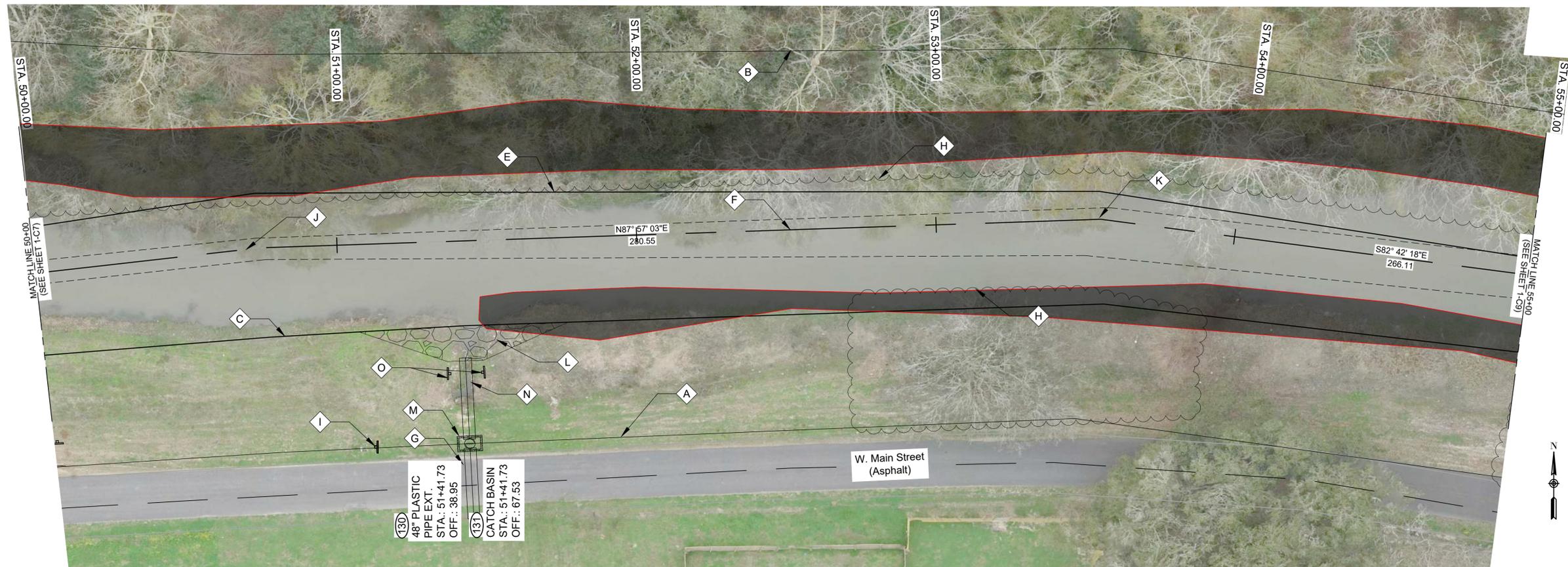
SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 27823



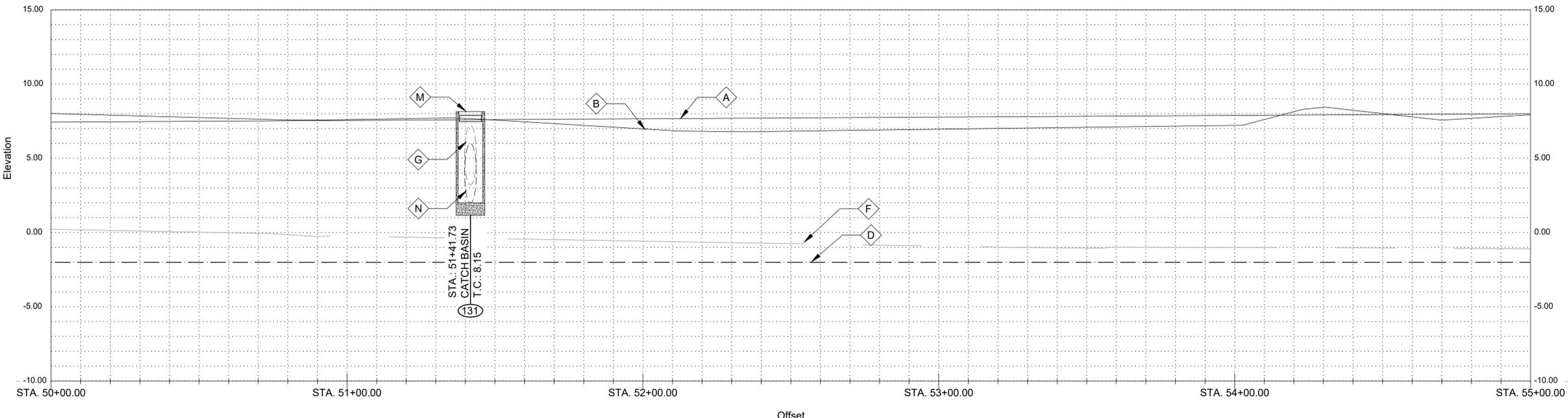
MARK	DESCRIPTION	DATE	BY	REVISION RECORD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

DESIGNED BY:	DAM/ARF	CHECKED BY:	DAM
DATE:	APRIL, 2019	DATE:	2017-14
DRAWN BY:	ARF/RMM	PROJECT NO.:	HDC PROJECT NO. 70737
DATE:	APRIL, 2019	PROJECT NO.:	HDC PROJECT NO. 70737

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



LEGEND:
 [Solid Black Area] - MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 [Hatched Area] - EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)

GENERAL NOTES:

- SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
- ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ϵ .
- 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, ϵ OF NEW RIVER)
- \diamond E - BOTTOM OF CHANNEL (L.T.)
- \diamond F - SURVEYED ϵ OF NEW RIVER
- \diamond G - EXISTING 48" STEEL PIPE, TO REMAIN, INV. 3.23
- \diamond H - VEGETATION (SEE NOTE #3)
- \diamond I - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
- \diamond J - P.I. STA. 50+74.38 (N: 632432.6002, E: 3405368.5784)
- \diamond K - P.I. STA. 53+54.94 (N: 632442.6320, E: 3405648.9502)
- \diamond L - OUTLET PROTECTION PER SHEET BM-02
- \diamond M - CATCH BASIN
- \diamond N - (130)
- \diamond O - OBJECT MARKER PER DETAIL 100 C-1



SUBMITTED BY: ANDREW E. BOYD, E.I. PROJECT MANAGER
 SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL

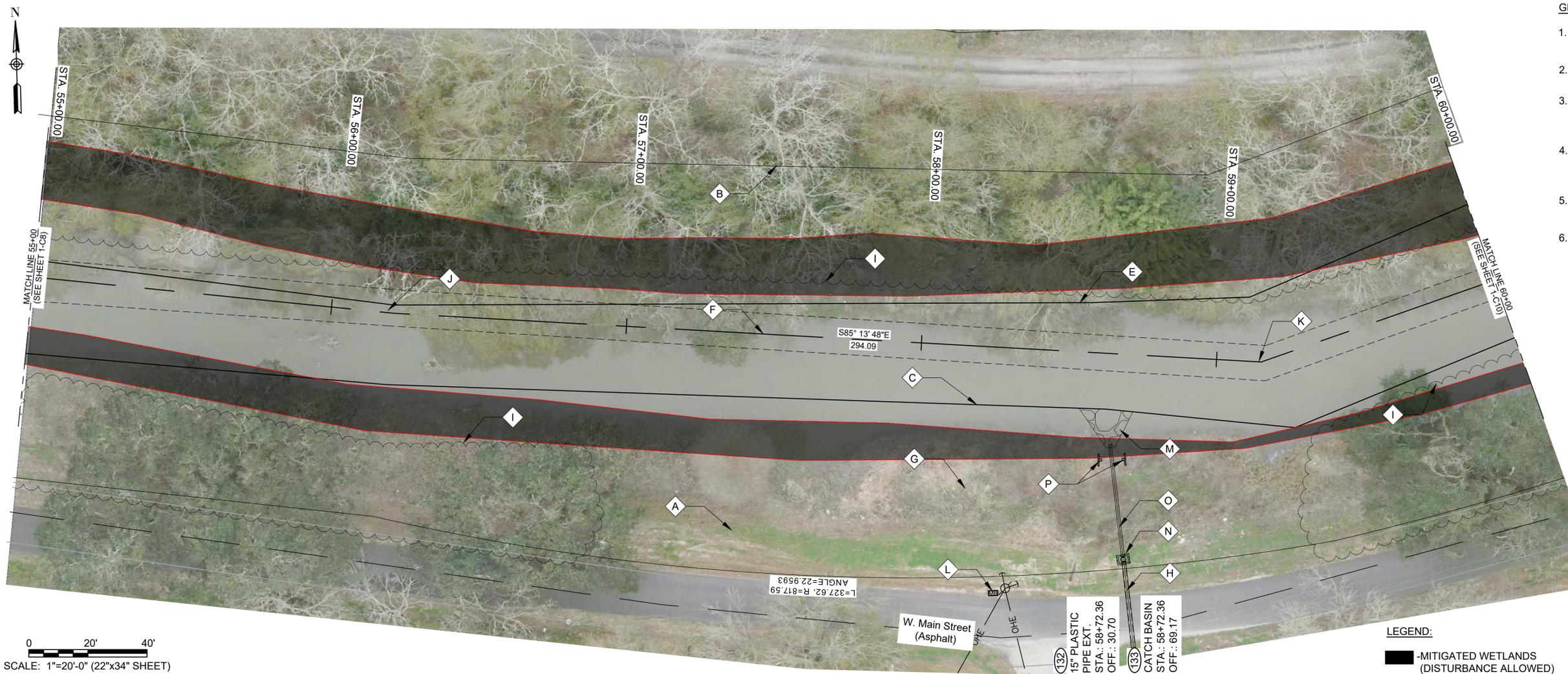


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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

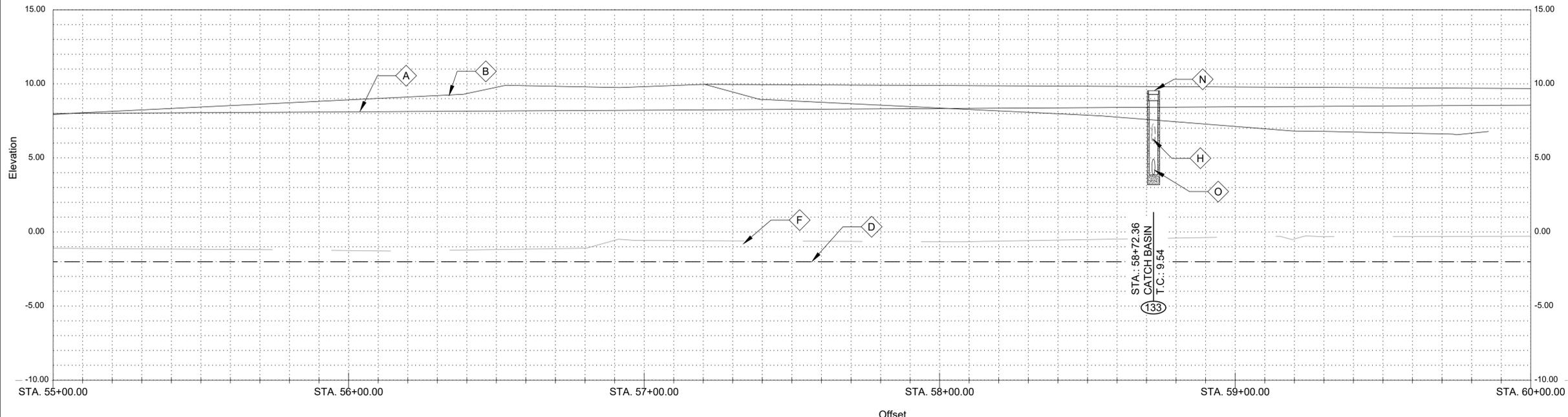
DATE: APRIL, 2019
 DETAILED BY: ARF/RMM
 HDC PROJECT NO. 2017-14

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)

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



LEGEND:
 -MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 -EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)

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.)
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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 - 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 - $\textcircled{132}$
- \diamond P - OBJECT MARKER PER DETAIL $\textcircled{100}$ C-1



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

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

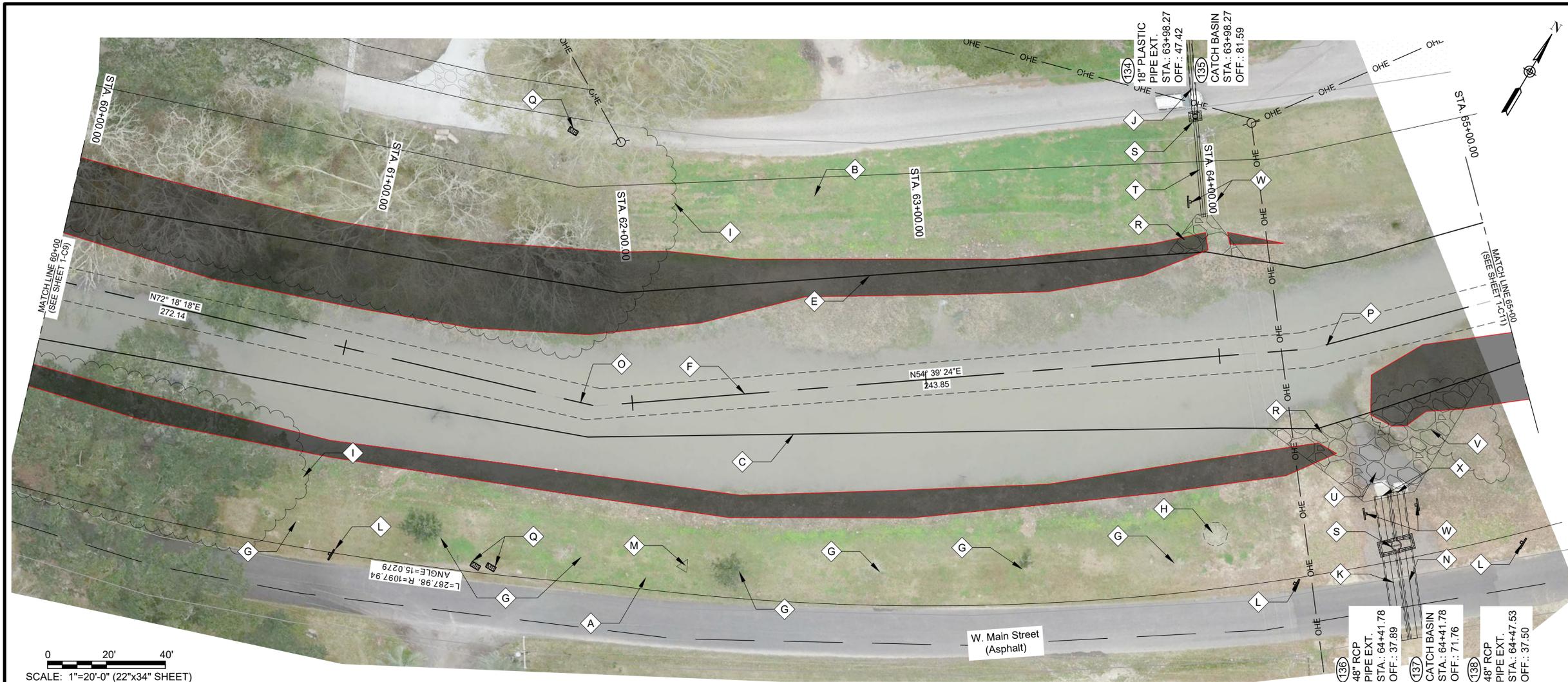


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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

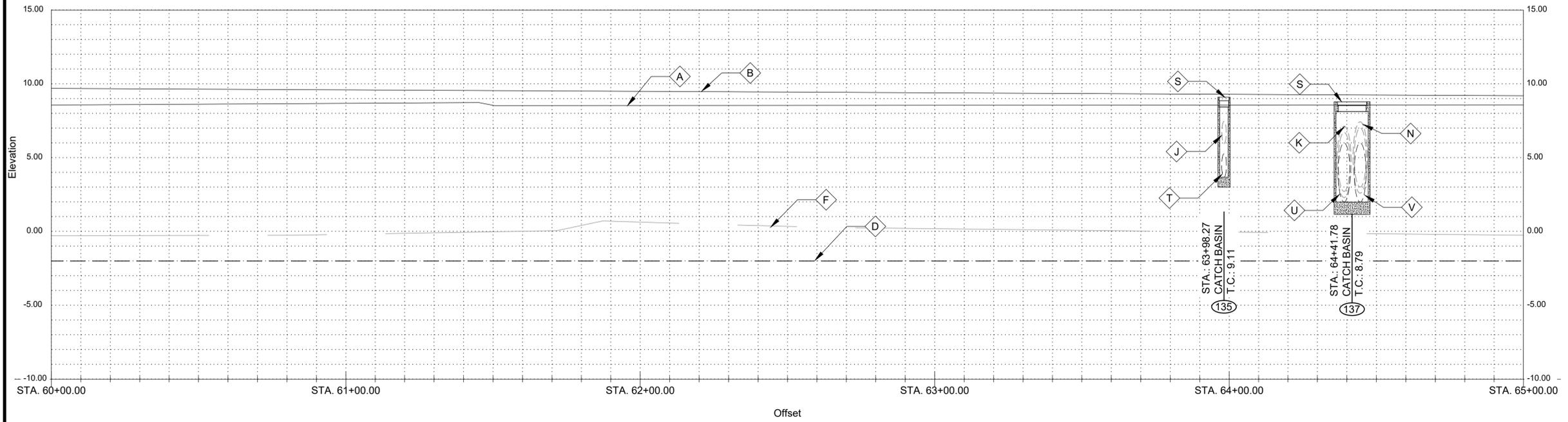
DATE: APRIL, 2019
 DETAILED BY: ARF/RMM
 DATE: APRIL, 2019
 PROJECT NO.: HDC PROJECT NO. 2017-14

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



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)



LEGEND:
 -MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 -EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)

- GENERAL NOTES:
- SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
 - ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED \mathcal{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, \mathcal{C} OF NEW RIVER)
 - \diamond E - BOTTOM OF CHANNEL (L.T.)
 - \diamond F - SURVEYED \mathcal{C} 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



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

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

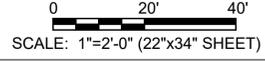
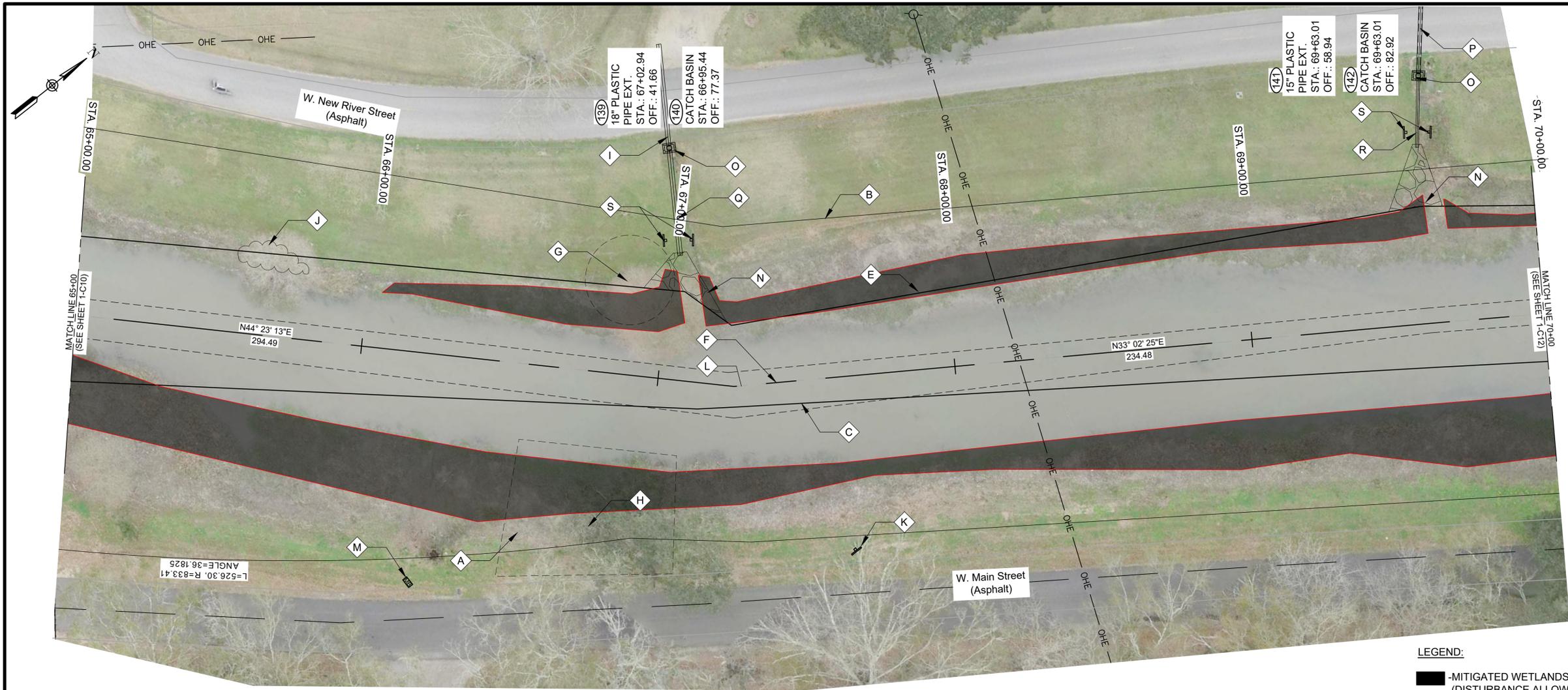


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

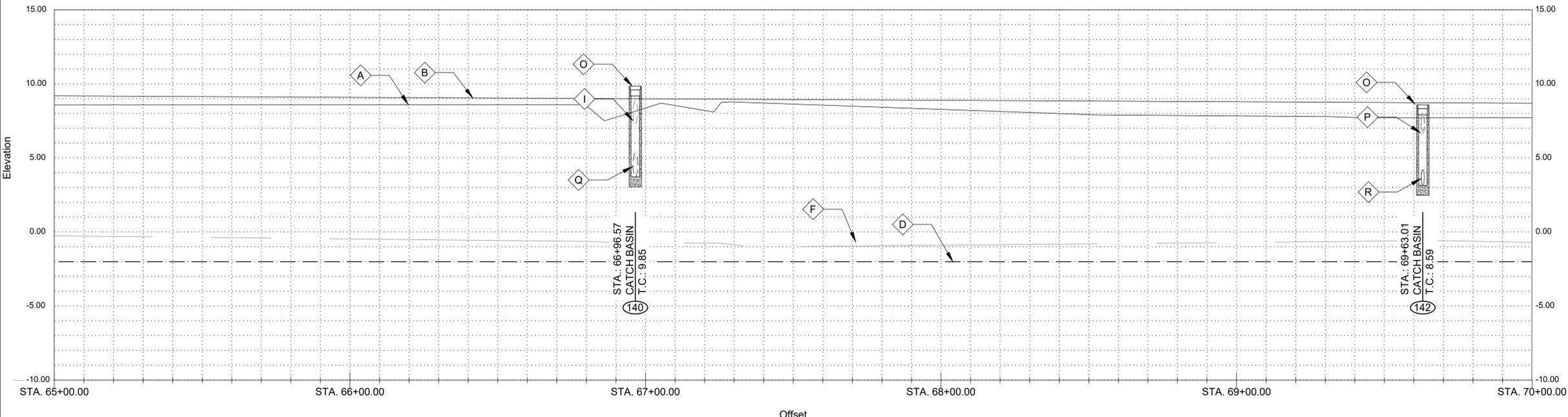
DESIGNED BY:	DRAWN BY:	CHECKED BY:
DAM/ARF	ARF/RMM	DAM

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

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



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



LEGEND:
 -MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)

- 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:
- TOP OF BANK (R.T.)
 - TOP OF BANK (L.T.)
 - BOTTOM OF CHANNEL (R.T.)
 - BOTTOM OF CHANNEL (EL. -2.0, \bar{C} OF NEW RIVER)
 - BOTTOM OF CHANNEL (L.T.)
 - SURVEYED \bar{C} OF NEW RIVER
 - 48" CYPRESS, TO REMAIN
 - 48" OAK, TO REMAIN
 - EXISTING 18" CMP, TO REMAIN, INV. 7.34
 - VEGETATION (SEE NOTE #3)
 - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
 - P.I. STA. 67+25.61 (N: 632818.6168, E: 340870.1406)
 - MAILBOX, TO REMAIN
 - OUTFALL PROTECTION PER SHEET BM-02
 - CATCH BASIN
 - EXISTING 12" RCP, TO REMAIN, INV. 6.67
 - (139)
 - (141)
 - OBJECT MARKER PER DETAIL



SUBMITTED BY:
 ANDREW FORD, E.I.
 PROJECT MANAGER
 LICENSE NO. 37823

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 27823



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

DESIGNED BY:	DAM/ARF	DRAWN BY:	AR/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



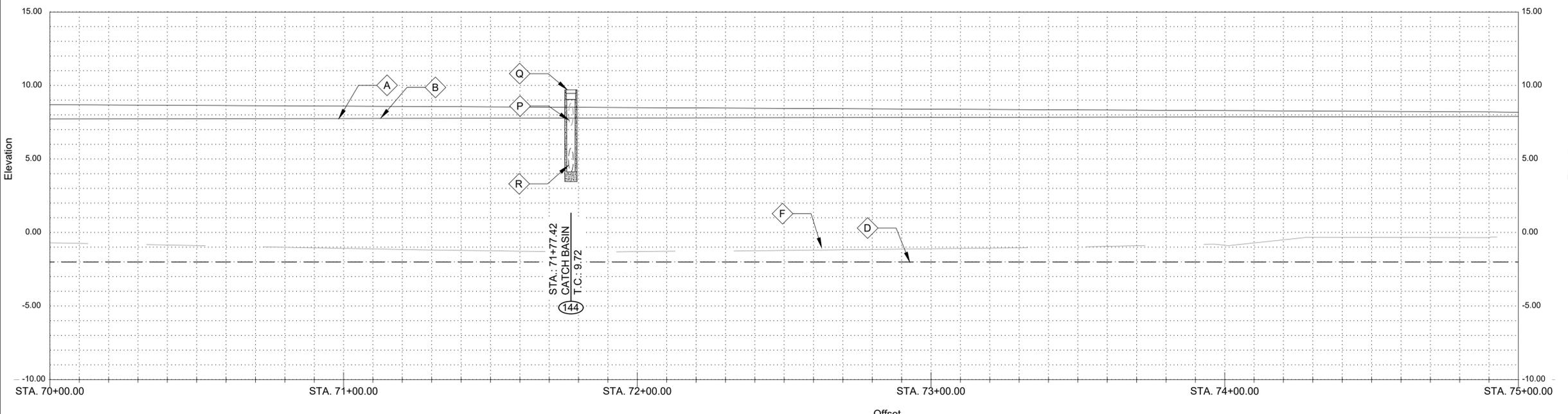
SCALE: 1"=20'-0" (22"x34" SHEET)

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

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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, \bar{C} OF NEW RIVER)
 - \diamond E - BOTTOM OF CHANNEL (L.T.)
 - \diamond F - SURVEYED \bar{C} 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 $\frac{100}{C-1}$



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

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



REVISION RECORD	
MARK	DESCRIPTION

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

DATE: APRIL, 2019

LOUISIANA

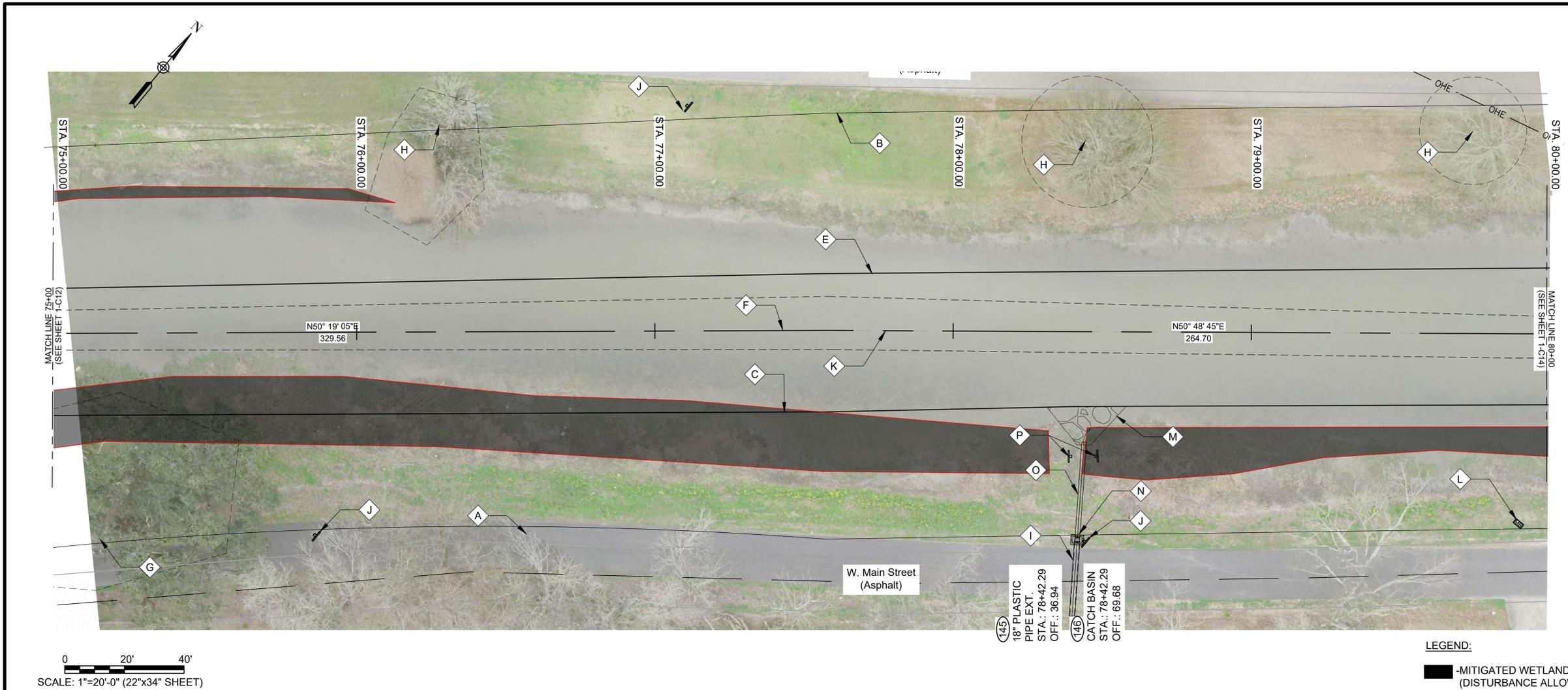
NEW RIVER CHANNEL IMPROVEMENTS

EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1

42077 CHURCHPOINT ROAD, GONZALES, LA 70737

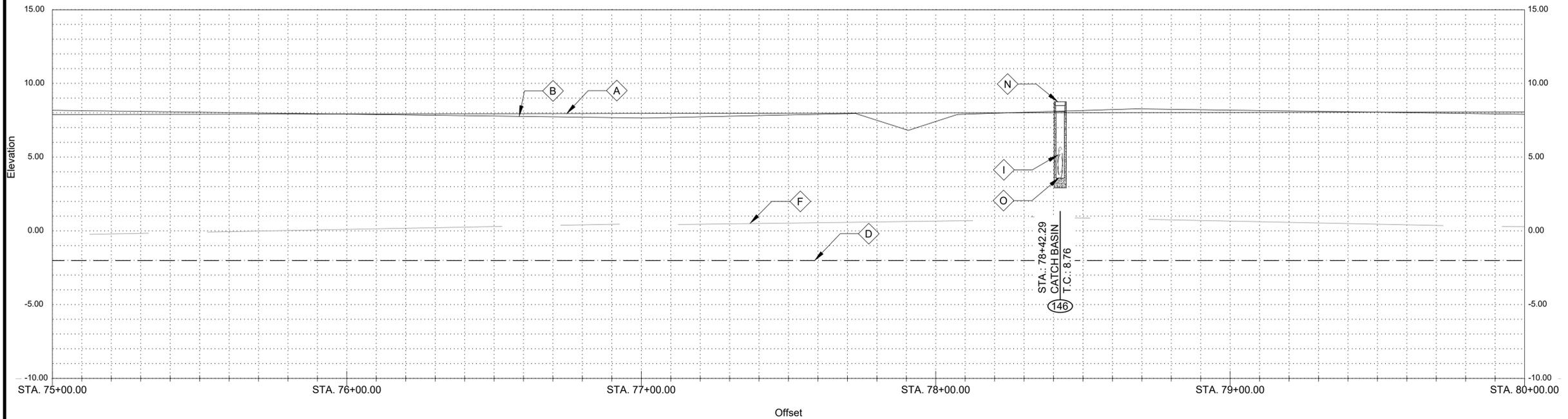
GONZALES

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)



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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.)
 - \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 - 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



SUBMITTED BY:
ANDREW FORD, E.I.
PROJECT MANAGER
LICENSE NO. 37823

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL
LICENSE NO. 37823

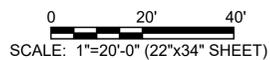
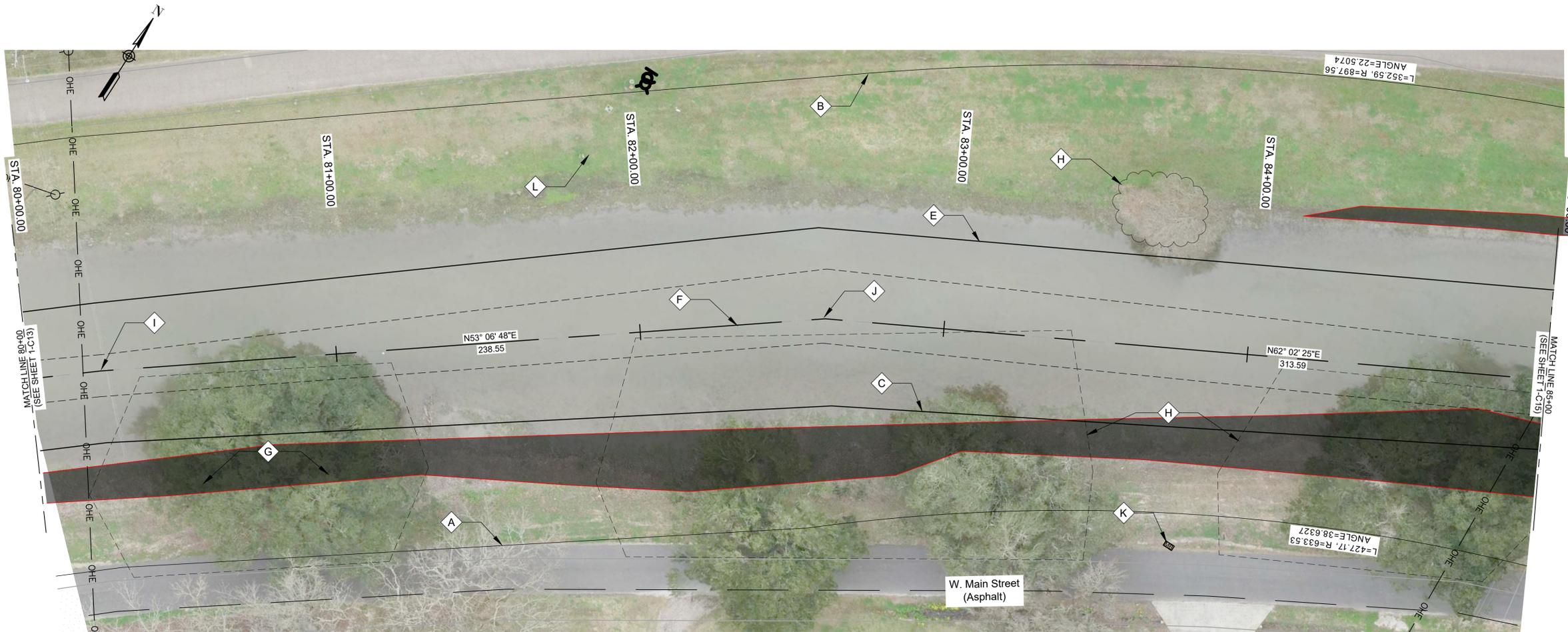


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

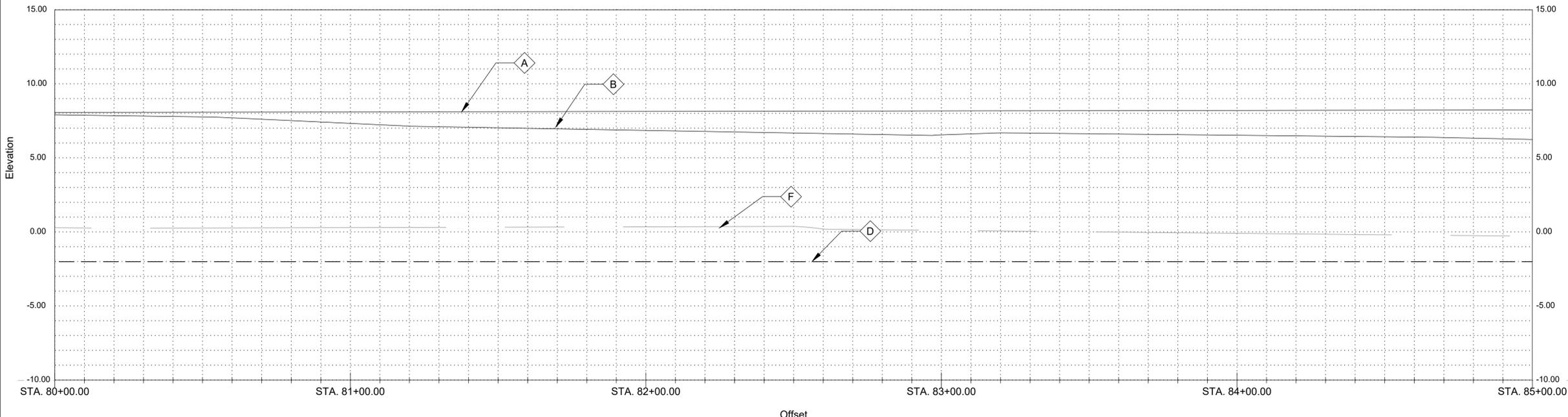
DESIGNED BY:	DRAWN BY:	CHECKED BY:	DAM
DAM/ARF	ARF/RMM	ARF/RMM	DAM

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
 PLAN & PROFILE



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



LEGEND:
 -MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 -EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)

- 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:
- TOP OF BANK (R.T.)
 - TOP OF BANK (L.T.)
 - BOTTOM OF CHANNEL (R.T.)
 - BOTTOM OF CHANNEL (EL. -2.0, \bar{C} OF NEW RIVER)
 - BOTTOM OF CHANNEL (L.T.)
 - SURVEYED \bar{C} OF NEW RIVER
 - 48" TREE, TO REMAIN
 - VEGETATION (SEE NOTE #3)
 - P.I. STA. 80+22.37 (N: 633779.5036, E: 3407720.4189)
 - P.I. STA. 82+60.92 (N: 633922.6885, E: 3407911.2161)
 - MAILBOX, TO REMAIN
 - TELEPHONE POLE, TO REMAIN



SUBMITTED BY:
 ANDREW E. BOYD, E.I.
 PROJECT MANAGER
 LICENSE NO. 27823

SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL
 LICENSE NO. 27823

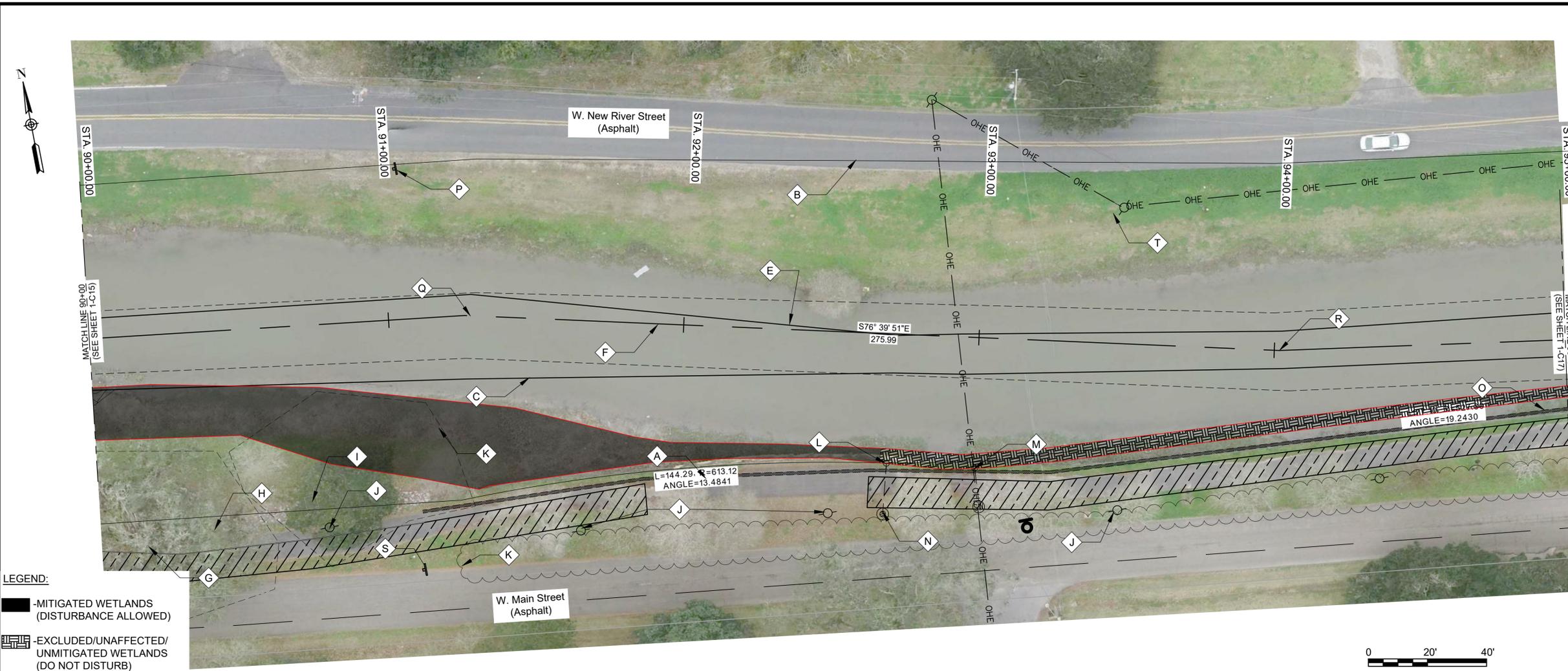


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

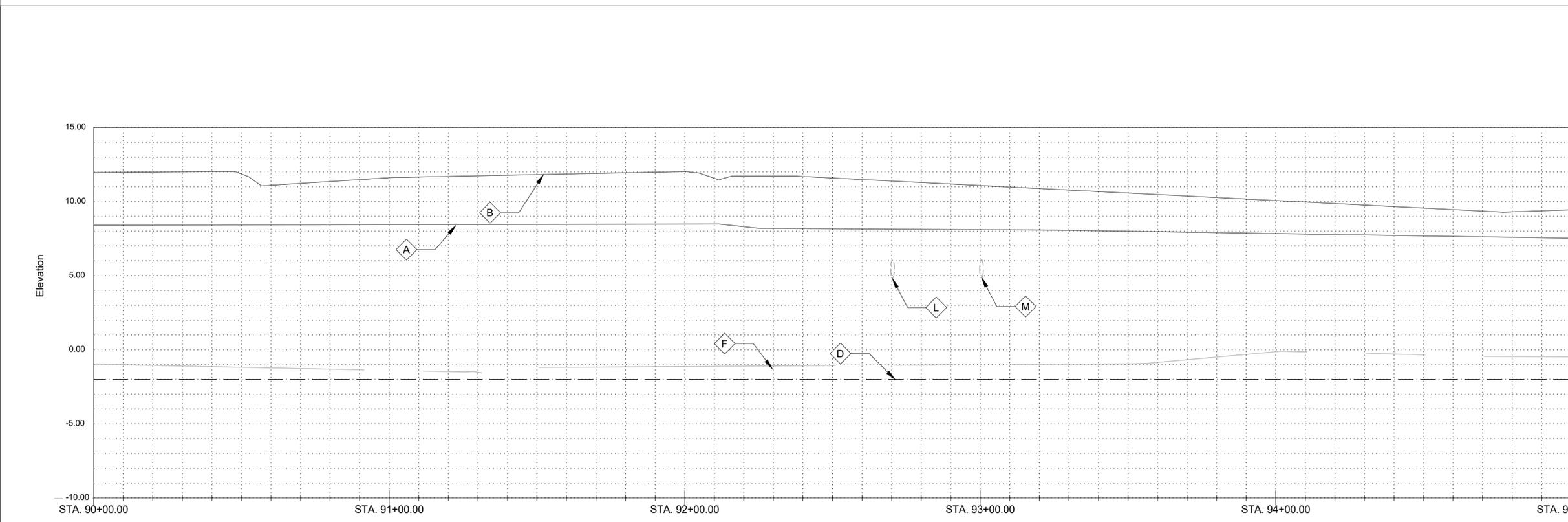
DESIGNED BY:	DRAWN BY:	CHECKED BY:
DAM/ARF	ARF/RMM	DAM

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



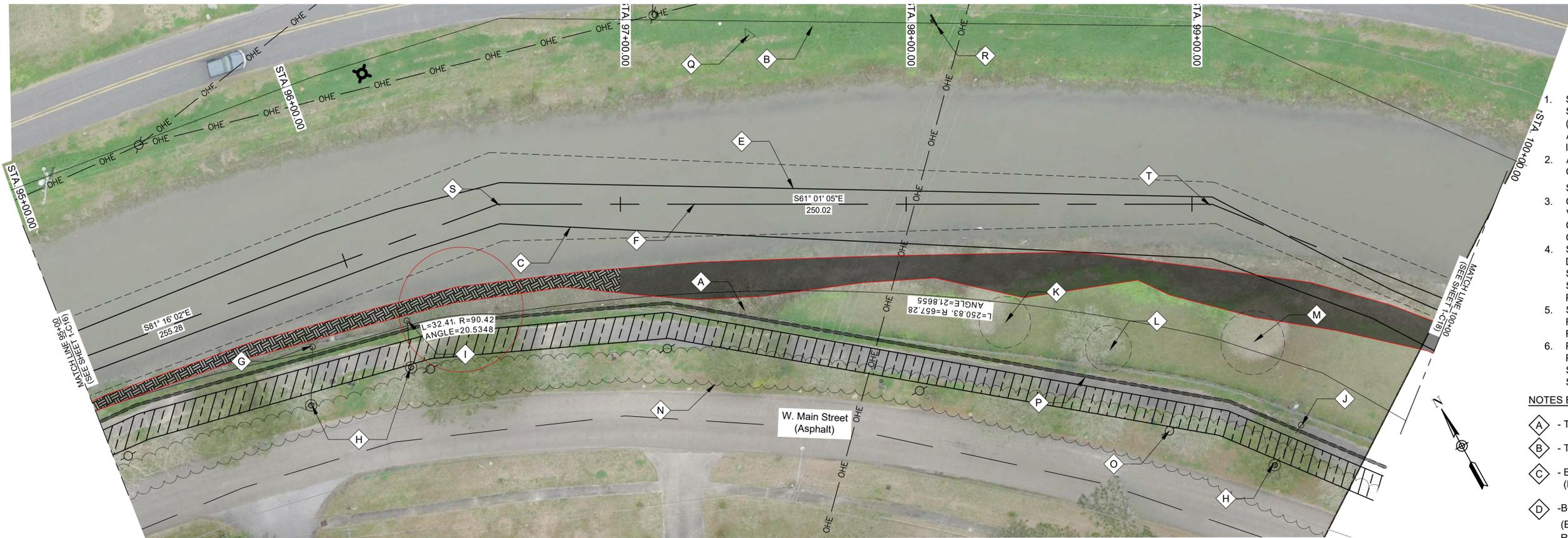
- GENERAL NOTES:**
- SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
 - ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ℓ .
 - CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED.
 - SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE 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 - 48" OAK, TO REMAIN
 - \diamond H - CONCRETE RIP-RAP
 - \diamond I - STREET LIGHTBOX
 - \diamond J - LIGHT POLE
 - \diamond K - VEGETATION (SEE NOTE #3)
 - \diamond L - EXISTING 15" CMP, TO REMAIN, INV. 4.83
 - \diamond M - EXISTING 15" CMP, TO REMAIN, INV. 4.84
 - \diamond N - DRAIN INLET WITH 15" CMP, TO REMAIN
 - \diamond O - WOODEN BULKHEAD
 - \diamond P - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
 - \diamond Q - P.I. STA. 91+25.74 (N: 634038.6374, E: 3408736.8548)
 - \diamond R - P.I. STA. 94+01.73 (N: 633974.9783, E: 3409005.4043)
 - \diamond S - EXISTING OBJECT MARKER, TO REMAIN
 - \diamond T - TELEPHONE POLE, TO REMAIN



- LEGEND:**
- MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 - EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)
- DESIGNED BY:** DAM/ARF
DRAWN BY: AR/RMM
CHECKED BY: DAM
- DATE:** APRIL, 2019
DETAILED BY: AR/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
PLAN & PROFILE

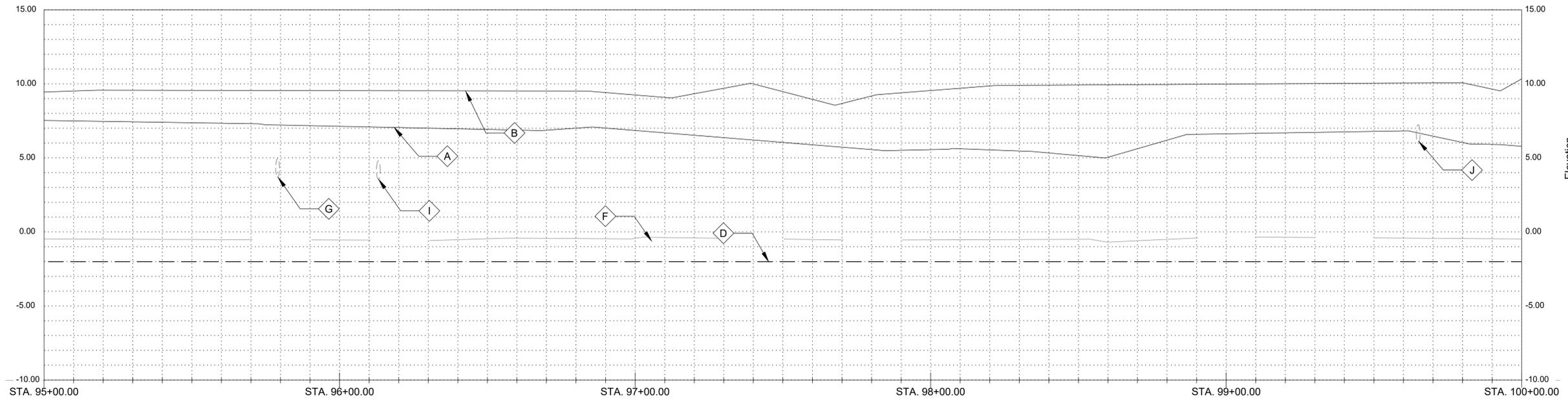
SUBMITTED BY: ANDREW FORD, E.I. PROJECT MANAGER	SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL
	H. Davis Cole & Associates, LLC Consulting Engineers NEW ORLEANS, LA
RELEASED FOR BIDS & CONSTRUCTION 07/2021	REVISION RECORD
DATE: APRIL, 2019	DAM
DETAILED BY: AR/RMM	CHECKED BY: DAM
HDC PROJECT NO. 2017-14	PLAN & PROFILE
SHEET ID: 1-C16	
SHEET SET: 60 OF 84	

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)

LEGEND:
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- NOTES BY SYMBOL:**
- TOP OF BANK (R.T.)
 - TOP OF BANK (L.T.)
 - BOTTOM OF CHANNEL (R.T.)
 - BOTTOM OF CHANNEL (EL. -2.0', ℓ OF NEW RIVER)
 - BOTTOM OF CHANNEL (L.T.)
 - SURVEYED ℓ OF NEW RIVER
 - EXISTING 15" CMP, TO REMAIN, INV. 3.70
 - EXISTIN DRAIN INLET WITH 15" CMP, TO REMAIN
 - EXISTING 15" CMP, TO REMAIN, INV. 3.65
 - EXISTING 15" CMP, TO REMAIN, INV. 6.00
 - 12" TREE, TO REMAIN
 - 18" CREPE MYRTLE, TO REMAIN
 - 24" TREE, TO REMAIN
 - VEGETATION (SEE NOTE #3)
 - LIGHT POLE
 - BENCH
 - CONTROL POINT (BY SURVEYOR), SEE SURVEY FOR GEOMETRY
 - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
 - P.I. STA. 96+57.01 (N: 633936.2198, E: 3409257.7254)
 - P.I. STA. 99+07.03 (N: 633815.0746, E: 3409476.4384)



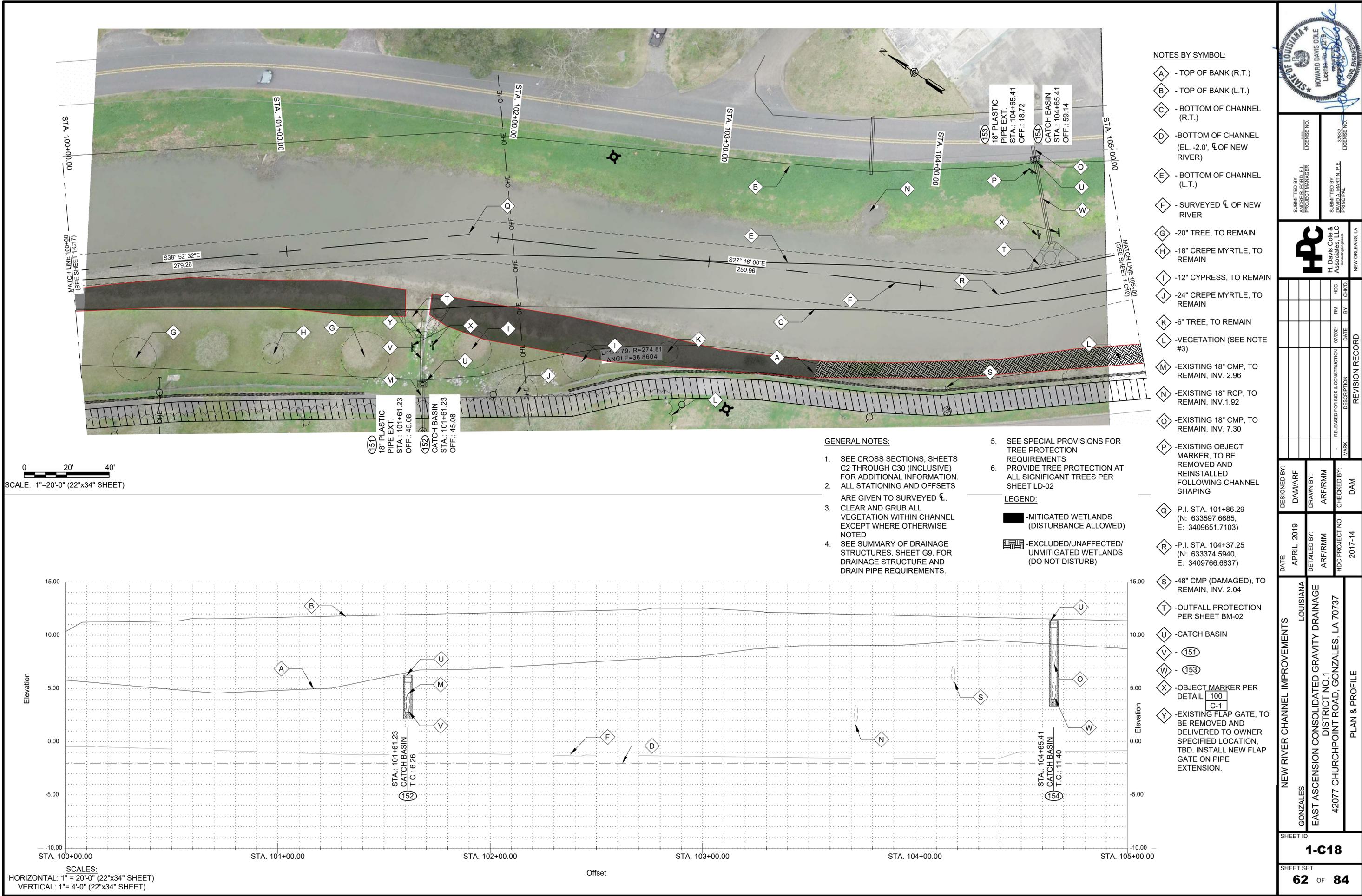
SUBMITTED BY: ANDREW FORD, E.I. PROJECT MANAGER
 SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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
 PLAN & PROFILE



- 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 - 20" TREE, TO REMAIN
 - ⬡ H - 18" CREPE MYRTLE, TO REMAIN
 - ⬡ I - 12" CYPRESS, TO REMAIN
 - ⬡ J - 24" CREPE MYRTLE, TO REMAIN
 - ⬡ K - 6" TREE, TO REMAIN
 - ⬡ L - VEGETATION (SEE NOTE #3)
 - ⬡ M - EXISTING 18" CMP, TO REMAIN, INV. 2.96
 - ⬡ N - EXISTING 18" RCP, TO REMAIN, INV. 1.92
 - ⬡ O - EXISTING 18" CMP, TO REMAIN, INV. 7.30
 - ⬡ P - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
 - ⬡ Q - P.I. STA. 101+86.29 (N: 633597.6685, E: 3409651.7103)
 - ⬡ R - P.I. STA. 104+37.25 (N: 633374.5940, E: 3409766.6837)
 - ⬡ S - 48" CMP (DAMAGED), TO REMAIN, INV. 2.04
 - ⬡ T - OUTFALL PROTECTION PER SHEET BM-02
 - ⬡ U - CATCH BASIN
 - ⬡ V - (151)
 - ⬡ W - (153)
 - ⬡ X - OBJECT MARKER PER DETAIL 100 C-1
 - ⬡ Y - 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.
 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

- LEGEND:**
- -MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 - ▨ -EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)

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 E. COLE
PROJECT MANAGER
LICENSE NO. 27823

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL
LICENSE NO. 27823

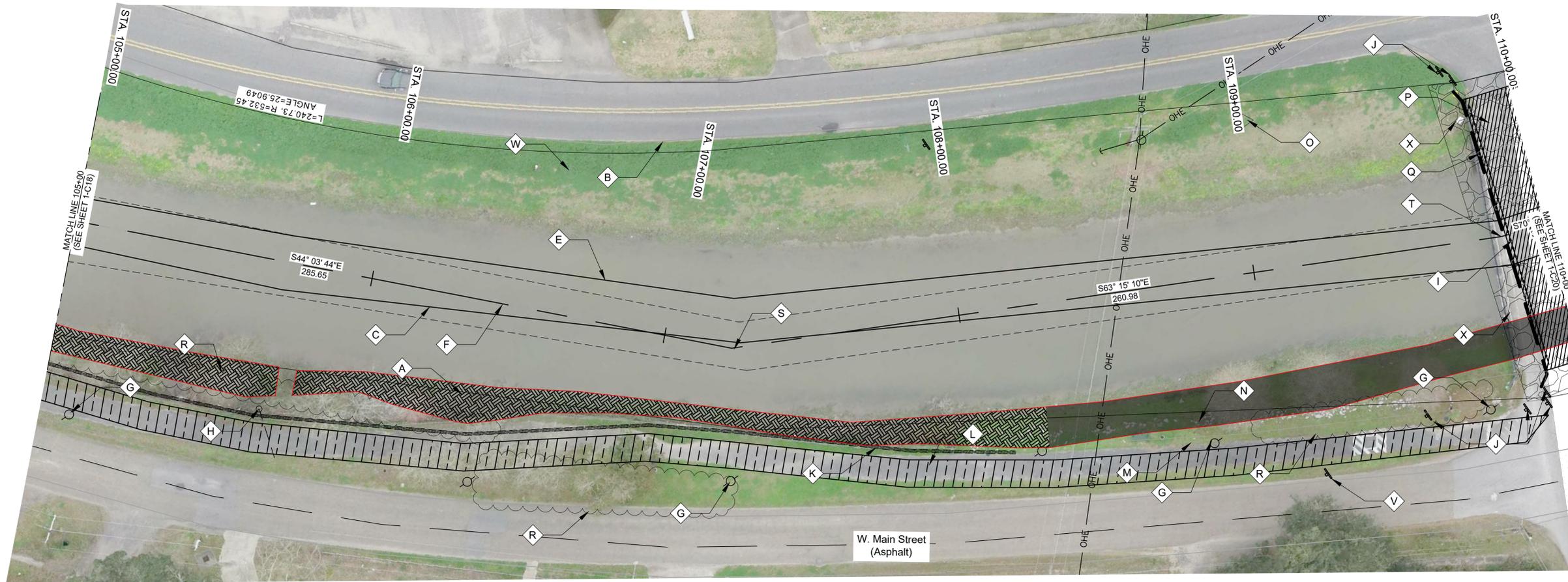


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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



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 - 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 - EXISTING 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

GENERAL NOTES:

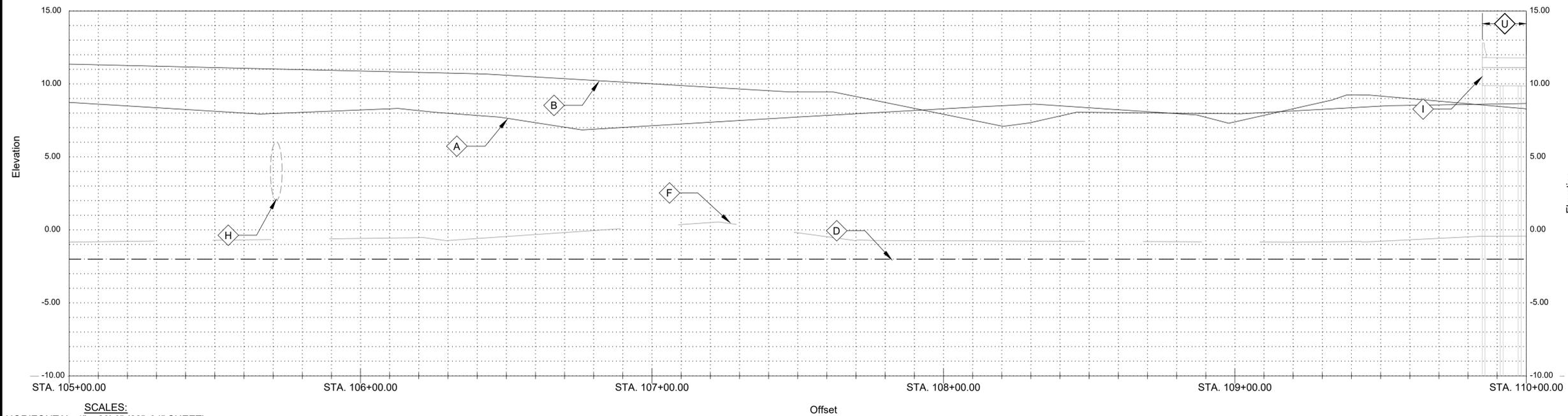
1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
2. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED CL.
3. CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
4. SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN PIPE REQUIREMENTS.

5. SEE SPECIAL PROVISIONS FOR TREE PROTECTION REQUIREMENTS
6. RELEASED FOR BIDS & CONSTRUCTION 07/2021

LEGEND:

- MITIGATED WETLANDS (DISTURBANCE ALLOWED)
- EXCLUDED/UNAFFECTED/UNMITIGATED WETLANDS (DO NOT DISTURB)

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 FORD, E.I.
PROJECT MANAGER

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

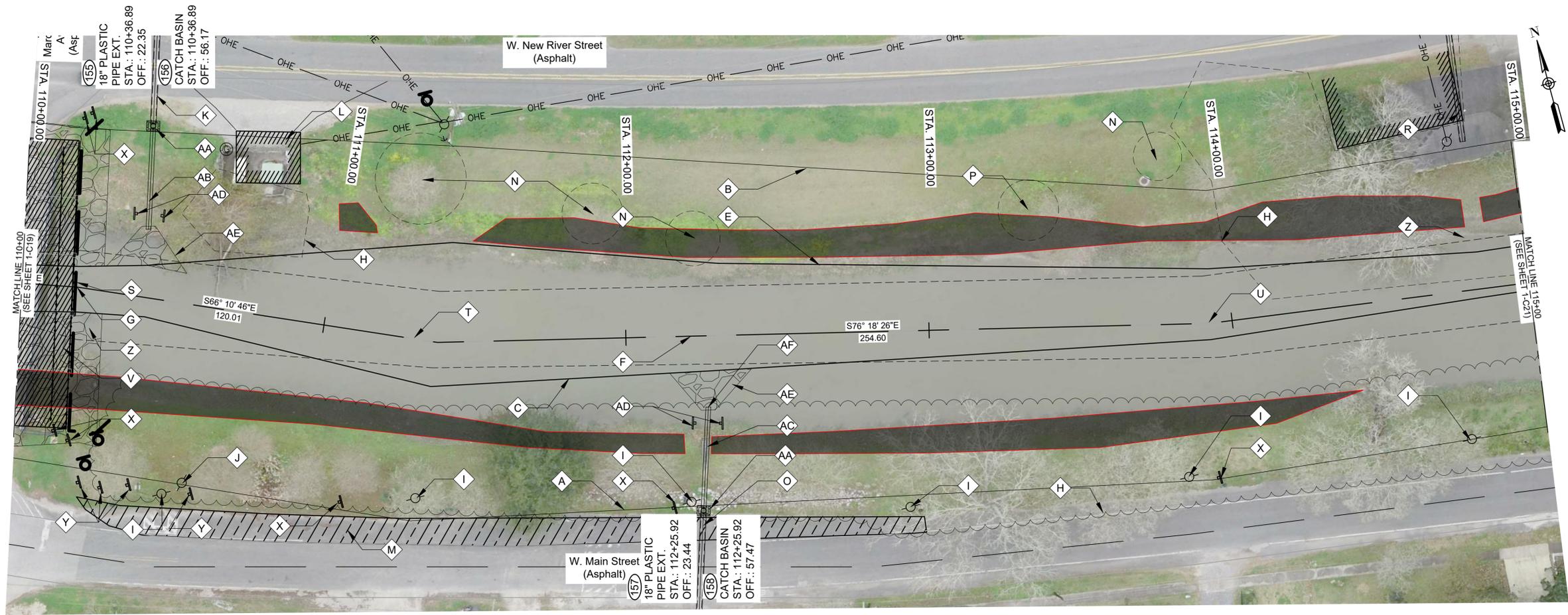


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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
PLAN & PROFILE



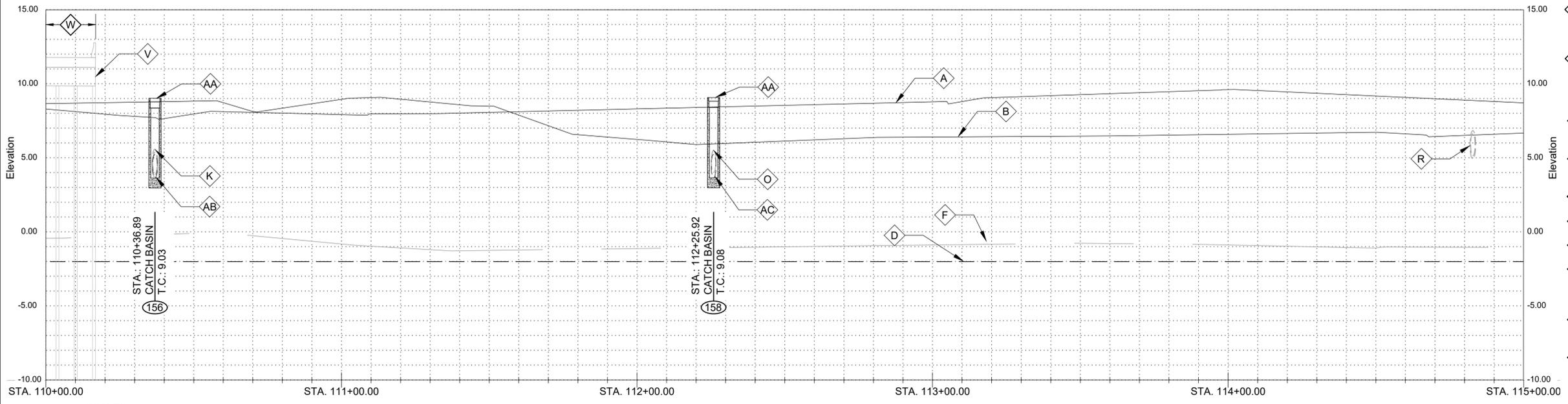
- NOTES BY SYMBOL:**
- ⬠ - TOP OF BANK (R.T.)
 - ⬠ - TOP OF BANK (L.T.)
 - ⬠ - BOTTOM OF CHANNEL (R.T.)
 - ⬠ - BOTTOM OF CHANNEL (EL. -2.0', \bar{C} OF NEW RIVER)
 - ⬠ - BOTTOM OF CHANNEL (L.T.)
 - ⬠ - SURVEYED \bar{C} OF NEW RIVER
 - ⬠ - 8" WATERLINE CROSSING ALONG BRIDGE DECK, TO REMAIN
 - ⬠ - VEGETATION (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 \bar{C} .
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

LEGEND:

- - MITIGATED WETLANDS (DISTURBANCE ALLOWED)
- ▤ - EXCLUDED/UNAFFECTED/UNMITIGATED WETLANDS (DO NOT DISTURB)



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



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

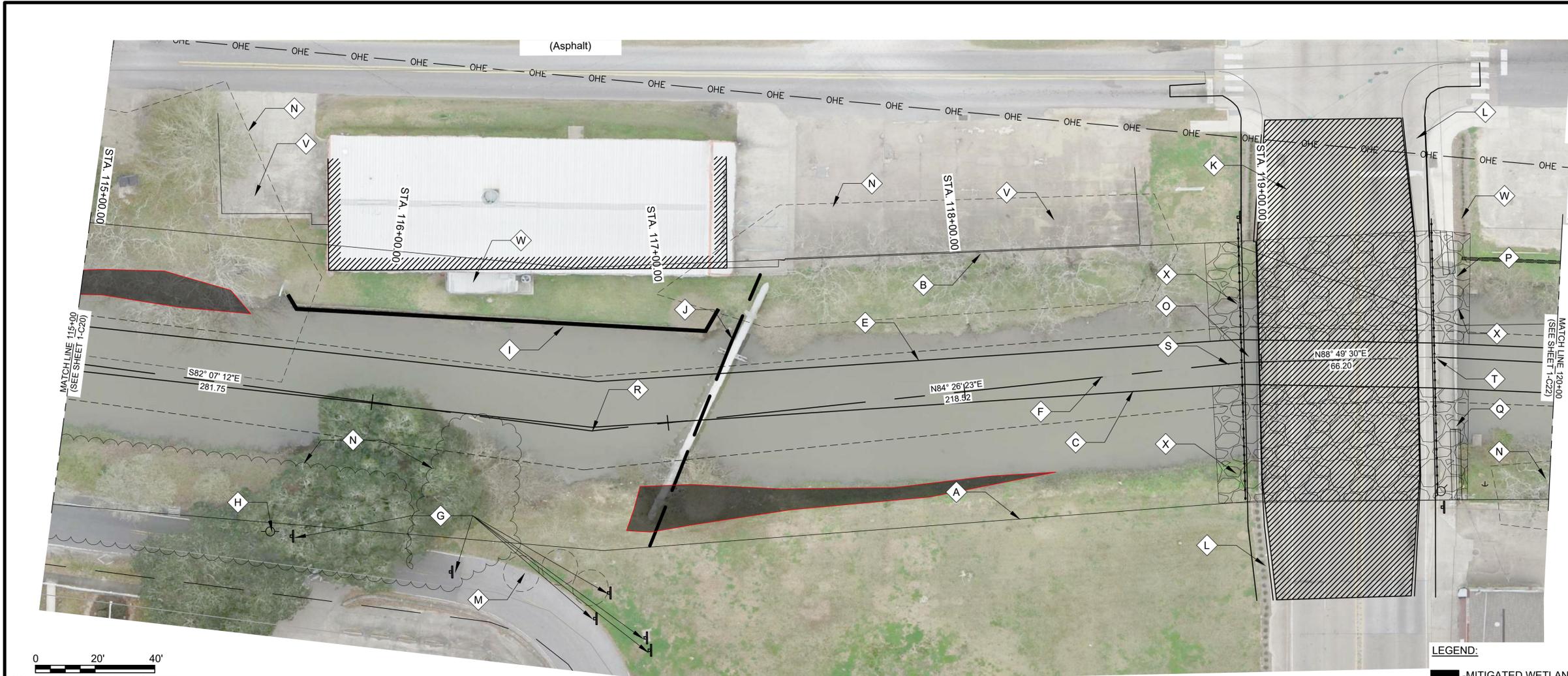
SUBMITTED BY:
 DAVID A. MARTIN, P.E.
 PRINCIPAL



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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

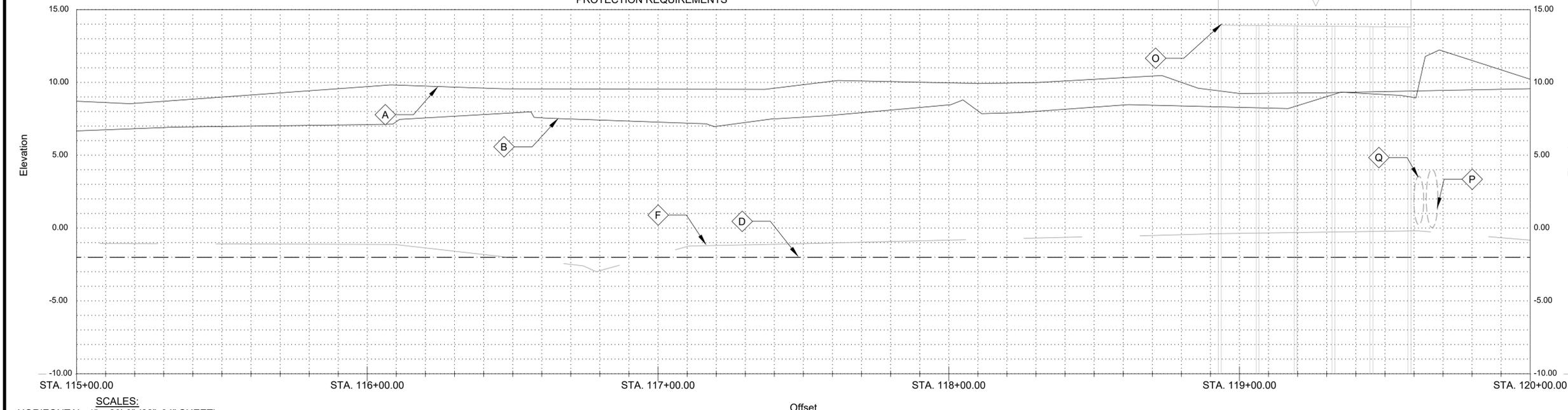
NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 PLAN & PROFILE



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

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:**
- 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 OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
 - H - LIGHT POLE
 - I - EXISTING WOODEN BULKHEAD
 - J - EXISTING OVERHEAD WATERLINE CROSSING, TO REMAIN. ELEVATION UNKNOWN
 - K - CONCRETE BRIDGE DECK
 - L - CONCRETE WALKWAY
 - M - 8" CREPE MYRTLE, TO REMAIN
 - N - VEGETATION (SEE NOTE #3)
 - O - BURNSIDE ROAD BRIDGE, BRIDGE PILES, 24"x24" CONCRETE CAP WITH 12" WOOD PILES
 - P - EXISTING 48" CMP, TO REMAIN, INV. 0.05
 - Q - EXISTING 40" CMP, TO REMAIN, INV. 0.23
 - R - P.I. STA. 116+74.23 (N: 632893.3526, E: 3410866.7337)
 - S - P.I. STA. 118+92.74 (N: 632914.5250, E: 3411084.2214)
 - T - P.I. STA. 119+58.95 (N: 632915.8825, E: 3411150.4113)
 - U - SEE SPECIAL PROVISIONS FOR REQUIREMENTS FOR EXCAVATION IN THIS AREA
 - V - ASPHALT
 - W - CONCRETE
 - X - RIP RAP PER SECTION 02711
- LEGEND:**
- MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 - EXCLUDED/UNAFFECTED/UNMITIGATED WETLANDS (DO NOT DISTURB)



SUBMITTED BY:
ANDREW E. COLE
PROJECT MANAGER
LICENSE NO. 37823

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL
LICENSE NO. 37823



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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

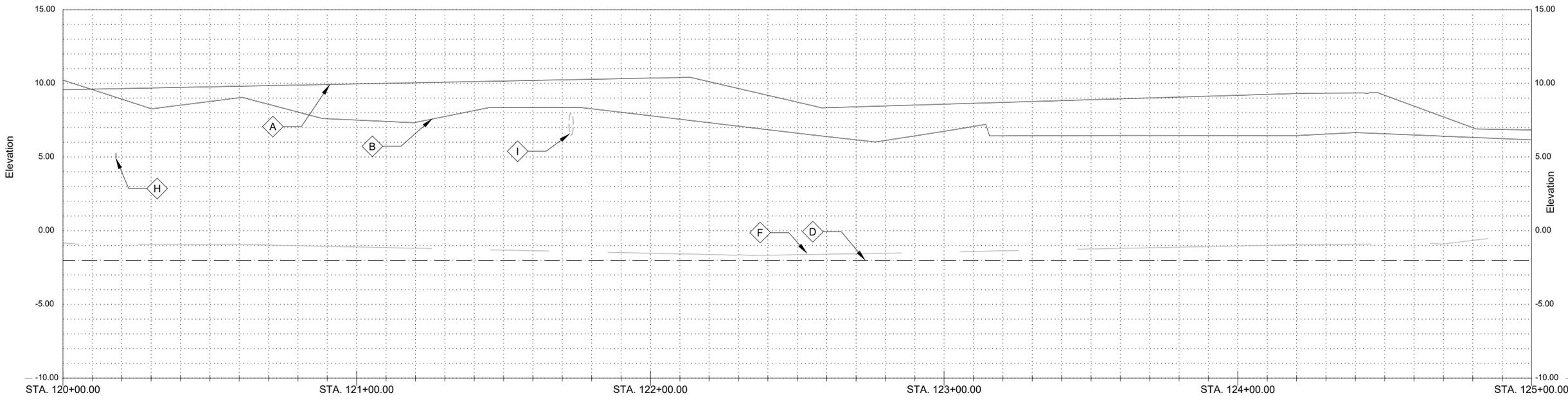
DATE: APRIL, 2019
DETAILED BY: ARF/RMM
HDC PROJECT NO. 2017-14

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)

LEGEND:
 -MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 -EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)



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



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

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

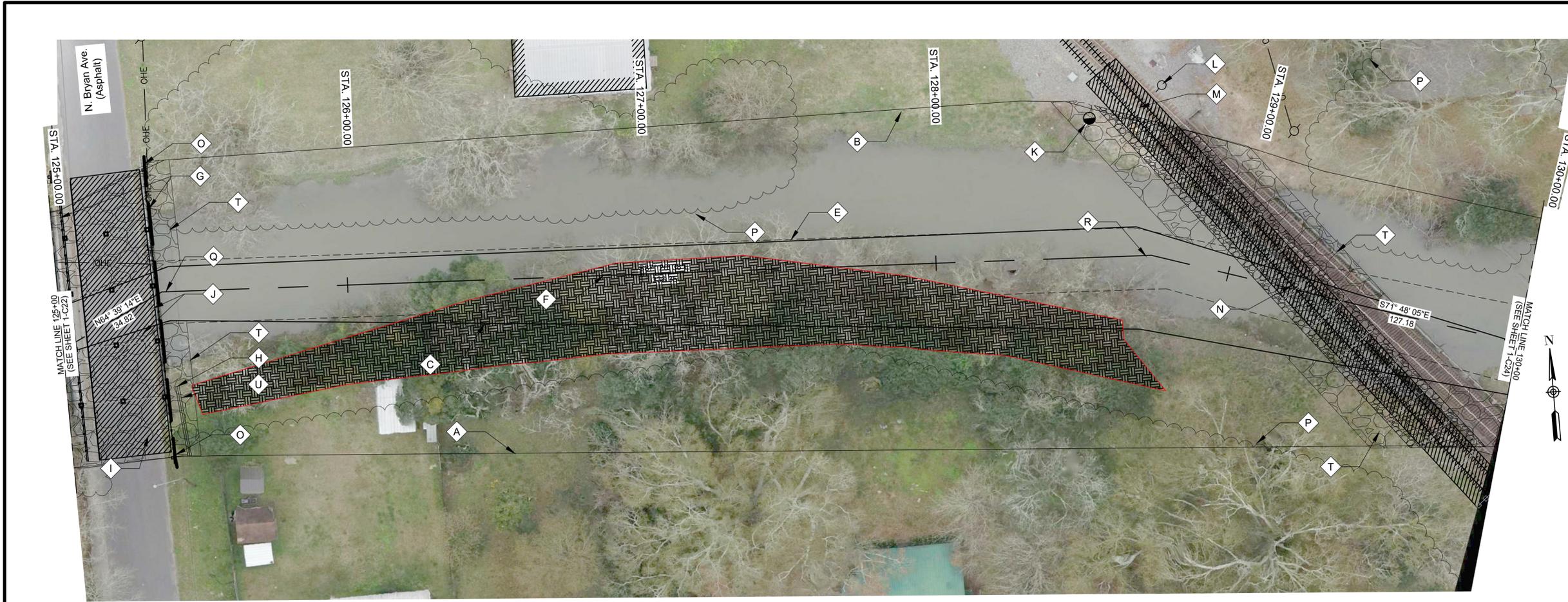


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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

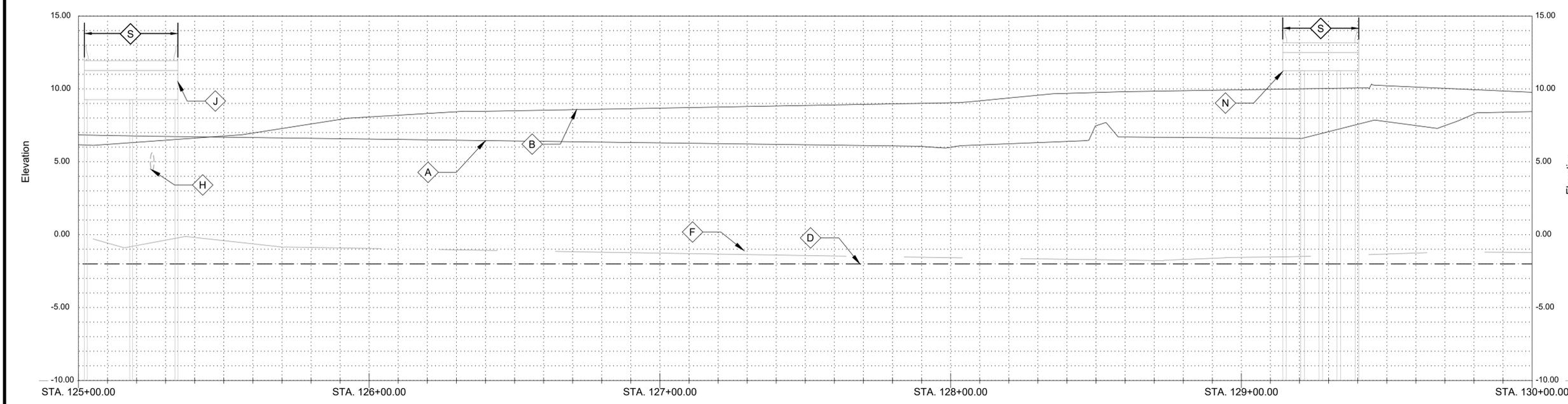
DATE:	DETAILED BY:	HDC PROJECT NO.
APRIL, 2019	ARF/RMM	2017-14

LOUISIANA
 NEW RIVER CHANNEL IMPROVEMENTS
 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)

LEGEND:
 -MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 -EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)



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:

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



SUBMITTED BY:
ANDREW FORD, E.I.
PROJECT MANAGER
LICENSE NO. 37823

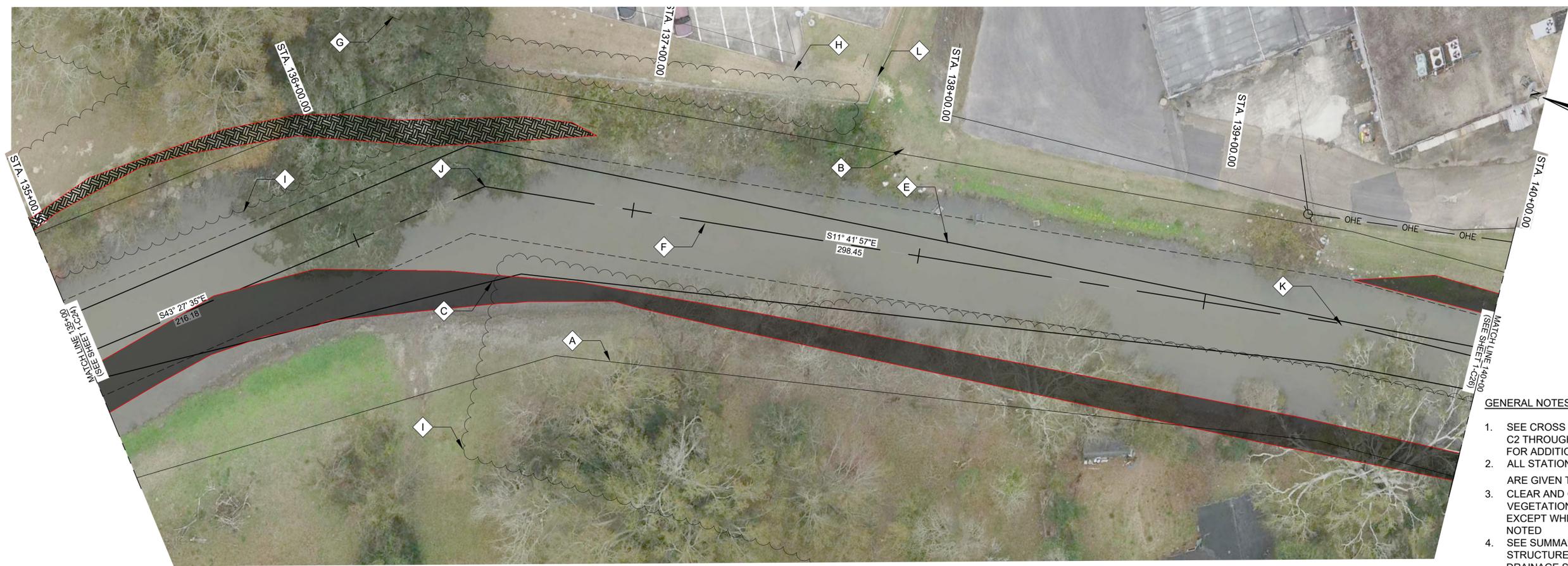
SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL
LICENSE NO. 37823



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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

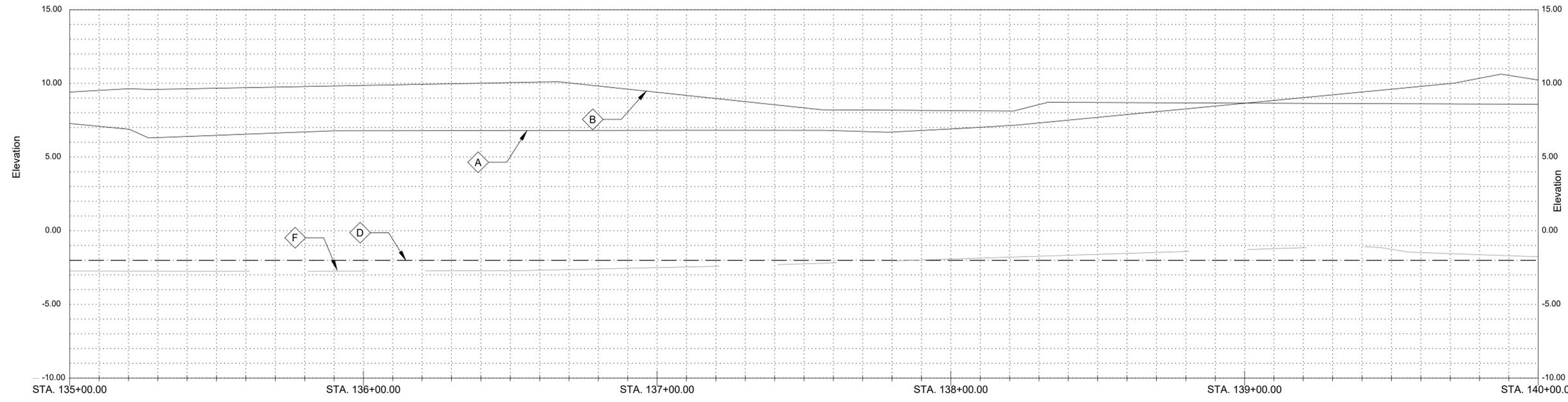


0 20' 40'
SCALE: 1"=20'-0" (22"x34" SHEET)

LEGEND:
 -MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 -EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)

- GENERAL NOTES:**
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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:**
- TOP OF BANK (R.T.)
 - TOP OF BANK (L.T.)
 - BOTTOM OF CHANNEL (R.T.)
 - BOTTOM OF CHANNEL (L.T.) (EL. -2.0', ℓ OF NEW RIVER)
 - BOTTOM OF CHANNEL (L.T.)
 - SURVEYED ℓ OF NEW RIVER
 - 6' WOOD FENCE
 - 8" OAK, TO REMAIN
 - VEGETATION (SEE NOTE #3)
 - P.I. STA. 136+48.15 (N: 632568.6593, E: 3412739.5028)
 - P.I. STA. 139+46.60 (N: 632276.4100, E: 3412800.0197)
 - TELEPHONE POLE, TO REMAIN



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



SUBMITTED BY:
ANDREW COLE, E.I.
PROJECT MANAGER
LICENSE NO. 27883

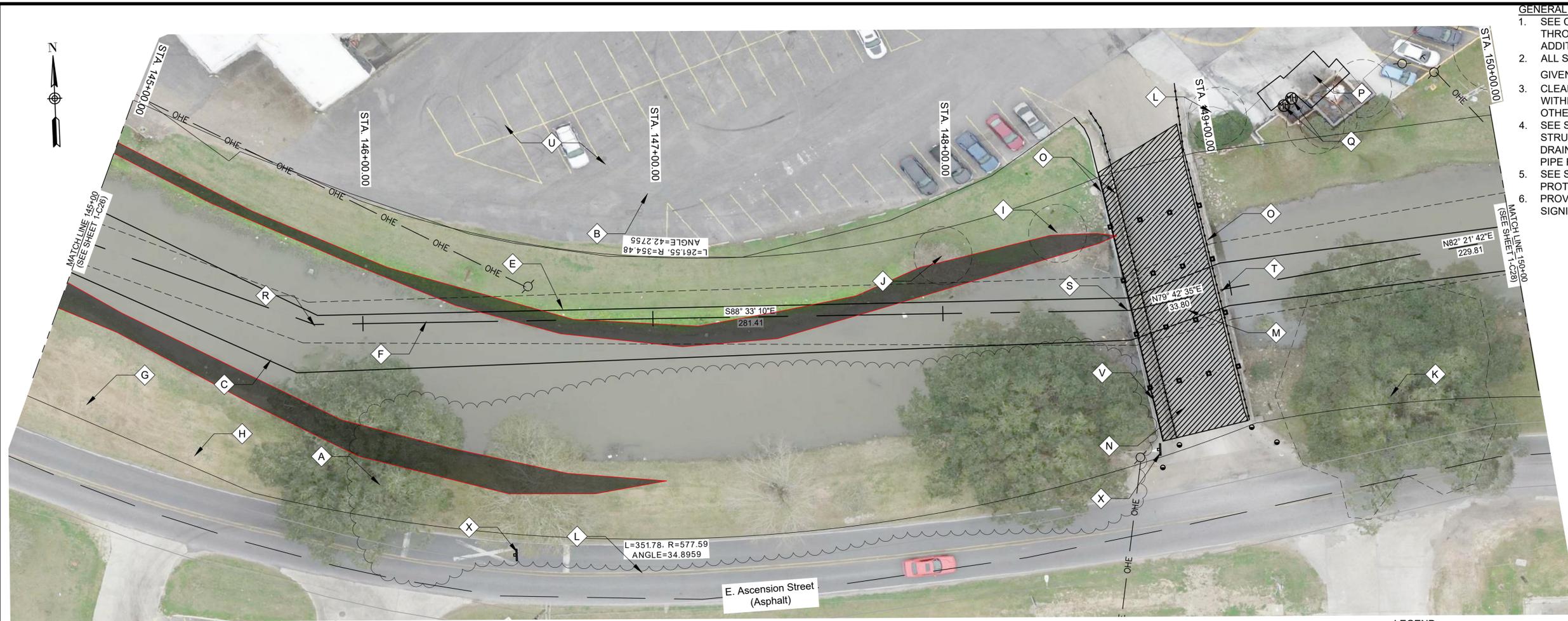
SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL
LICENSE NO. 27883



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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

LEGEND:
 [Solid Black] -MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 [Hatched] EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)

- 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:**
- [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] -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 D. BOYD, E.I. PROJECT MANAGER
 SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL

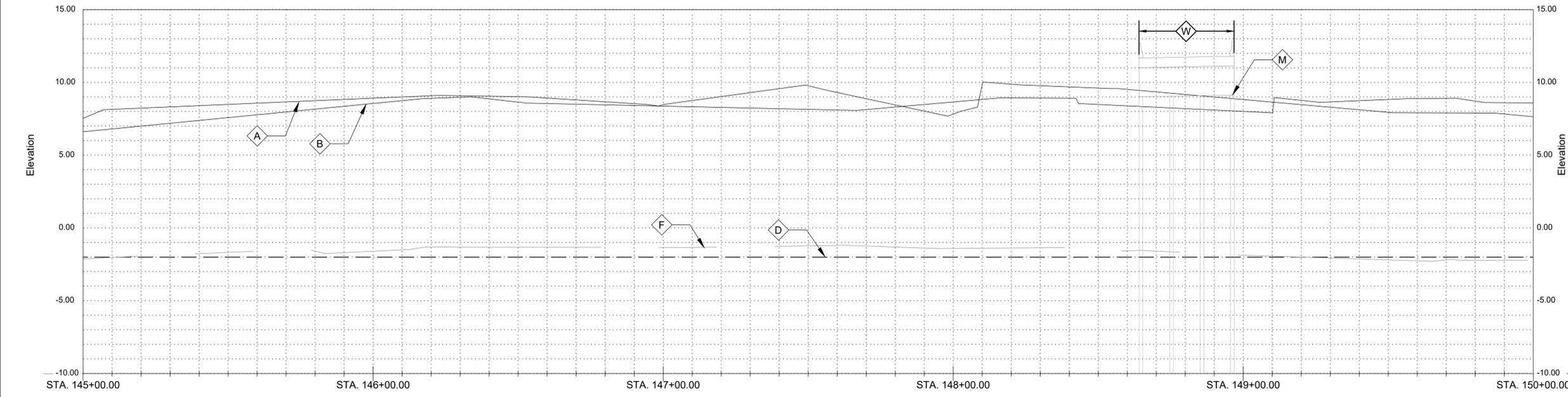


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

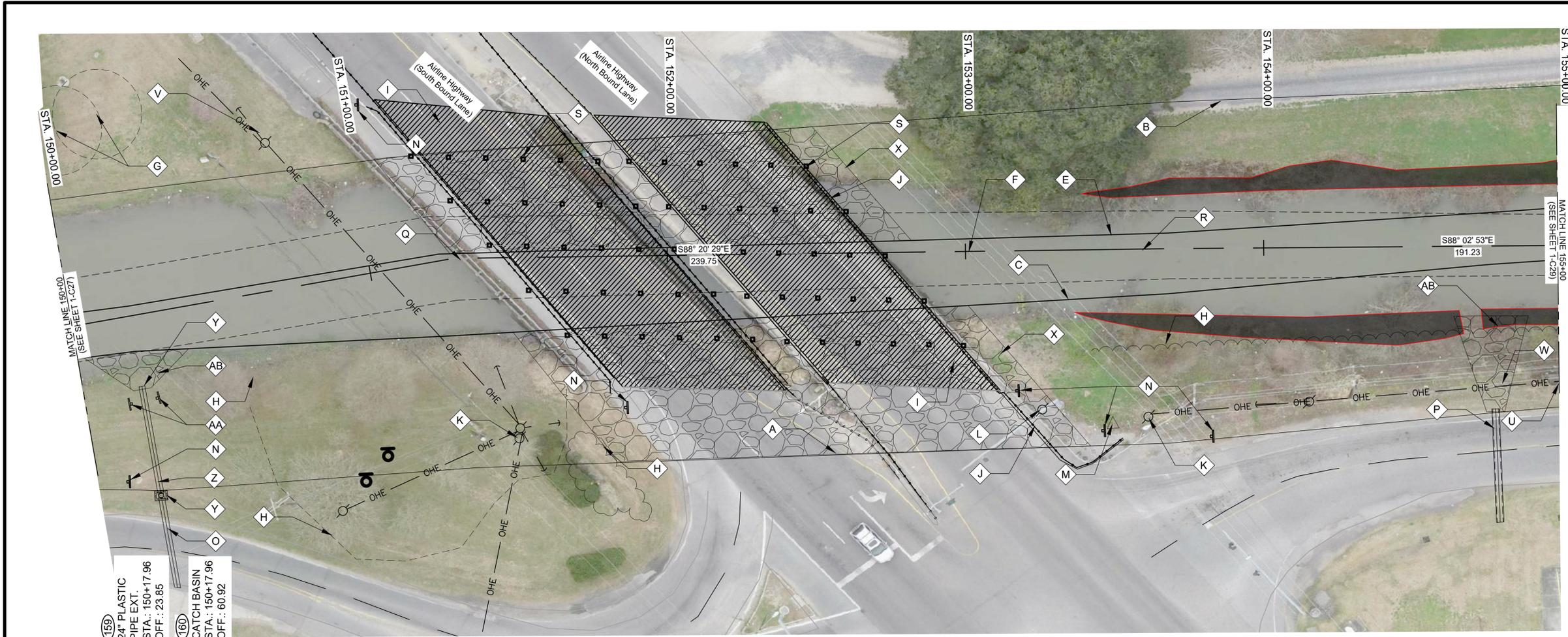
DESIGNED BY:	DRAWN BY:	CHECKED BY:
DAM/ARF	ARF/RMM	DAM

DATE:	LOUISIANA
APRIL, 2019	LOUISIANA

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



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



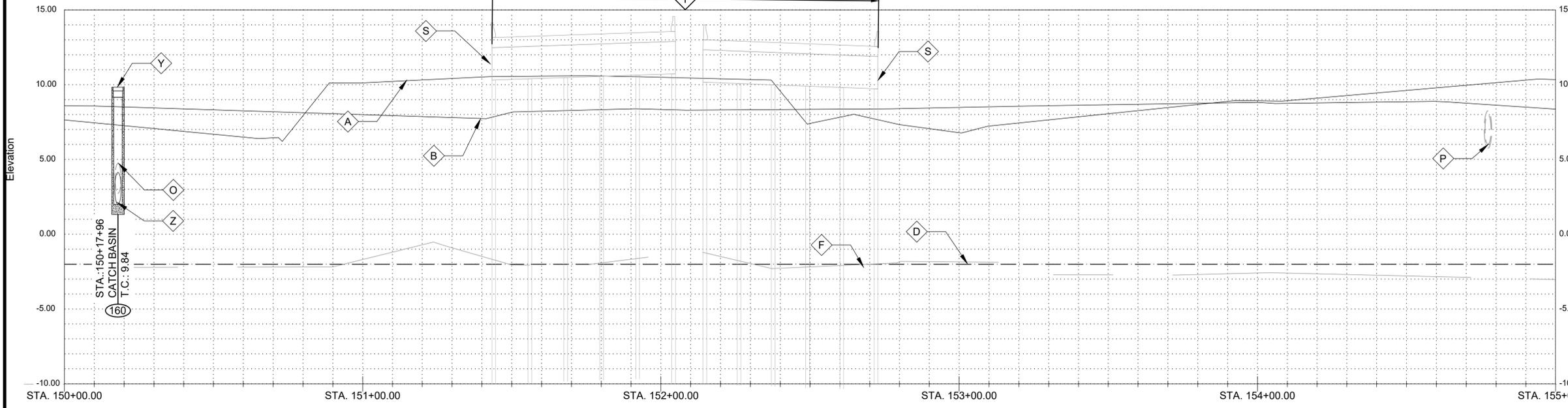
0 20' 40'
SCALE: 1"=20'-0" (22"x23" SHEET)

LEGEND:

- MITIGATED WETLANDS (DISTURBANCE ALLOWED)
- EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)

GENERAL NOTES:

1. SEE CROSS SECTIONS, SHEETS C2 THROUGH C30 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
2. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED CL.
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:**
- 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
 - 18" CYPRESS, TO REMAIN
 - VEGETATION (SEE NOTE #3)
 - CONCRETE BRIDGE DECK
 - GUARDRAIL
 - POWER POLE WITH UNDERGROUND ELECTRIC LINE
 - TRAFFIC LIGHT
 - CONTROL POINT (BY SURVEYOR) SEE SURVEY FOR GEOMETRY
 - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
 - EXISTING 24" CMP, TO REMAIN, INV. 2.74
 - EXISTING 24" RCP, TO REMAIN, INV. 5.76
 - P.I. STA. 151+28.27 (N: 631863.5914, E: 3413714.4871)
 - P.I. STA. 153+68.03 (N: 631856.6514, E: 3413954.1408)
 - US 61 BRIDGE, 30 BRIDGE PILES, 26"x30" CONCRETE CAP WITH 15" CONCRETE PILE
 - SEE SPECIAL PROVISIONS FOR REQUIREMENTS FOR EXCAVATION IN THIS AREA
 - 12"x24" TRAFFIC BOX
 - BRASS DISK, SEE SURVEY FOR GEOMETRY
 - CONCRETE HEADWALL
 - RIP RAP PER SECTION 02711
 - CATCH BASIN
 - 163
 - OBJECT MARKER PER DETAIL 100 C-1
 - OUTFALL PROTECTION PER SHEET BM-02



SUBMITTED BY: ANDREW BORD, E.I. PROJECT MANAGER
SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL

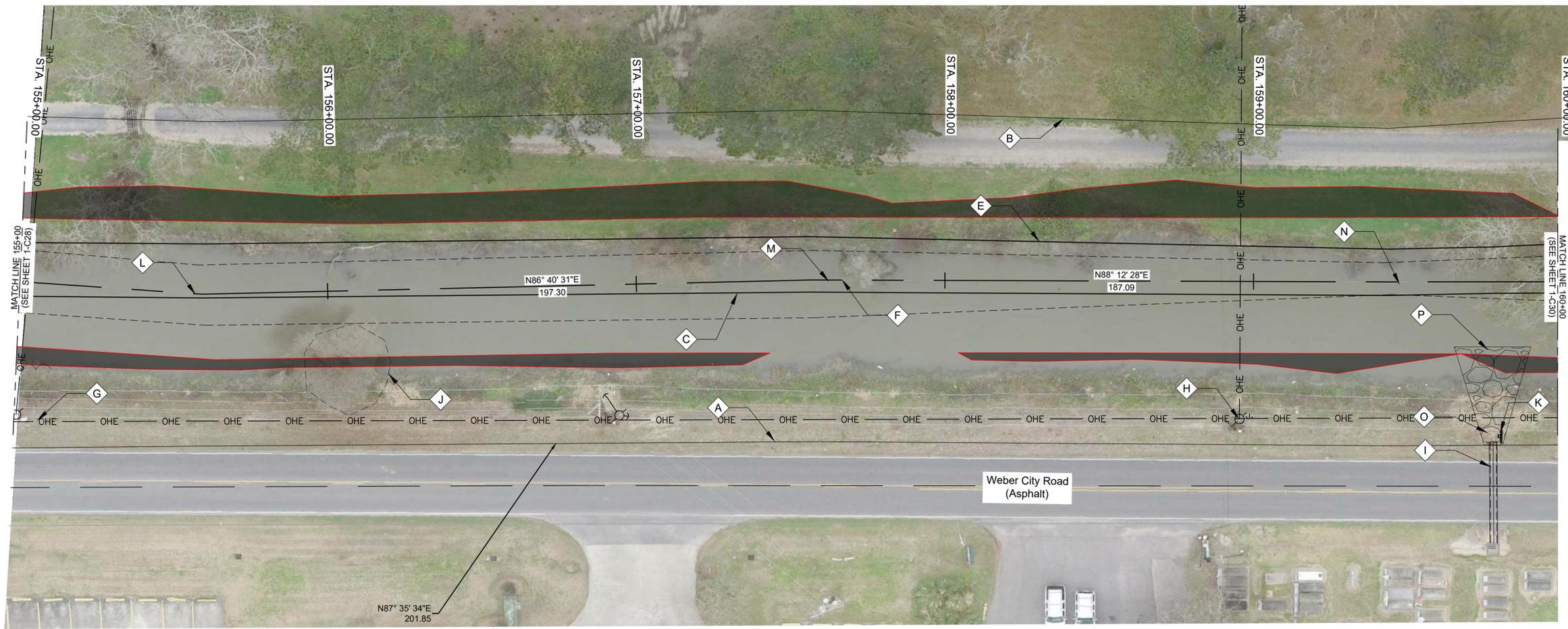


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/20/21	RM	HDC

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

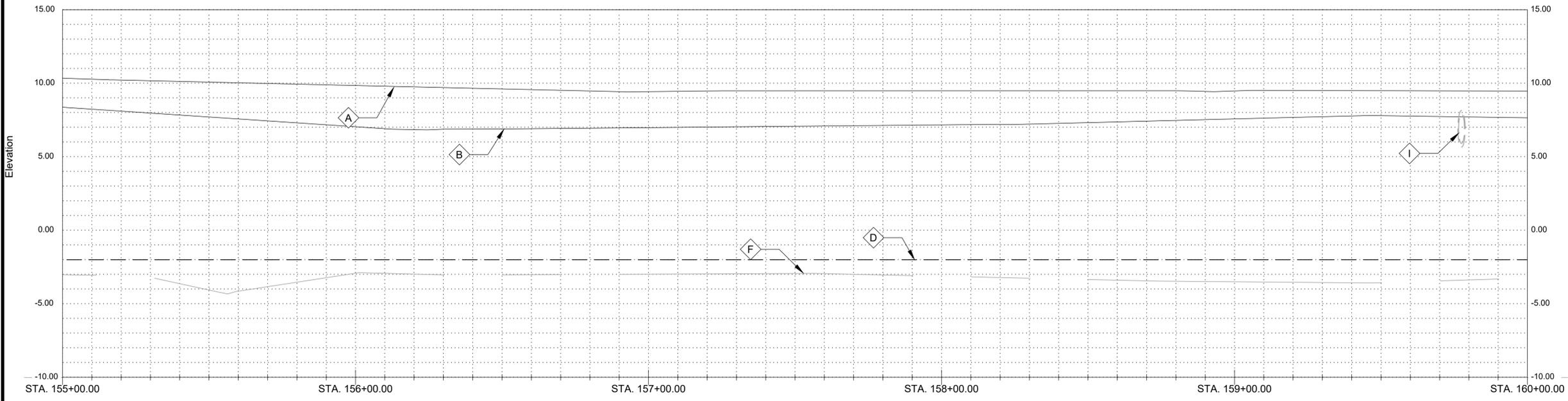
DATE: APRIL, 2019
DETAILED BY: ARF/RMM
HDC PROJECT NO. 2017-14

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)

LEGEND:
 -MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 -EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)



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



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

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



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

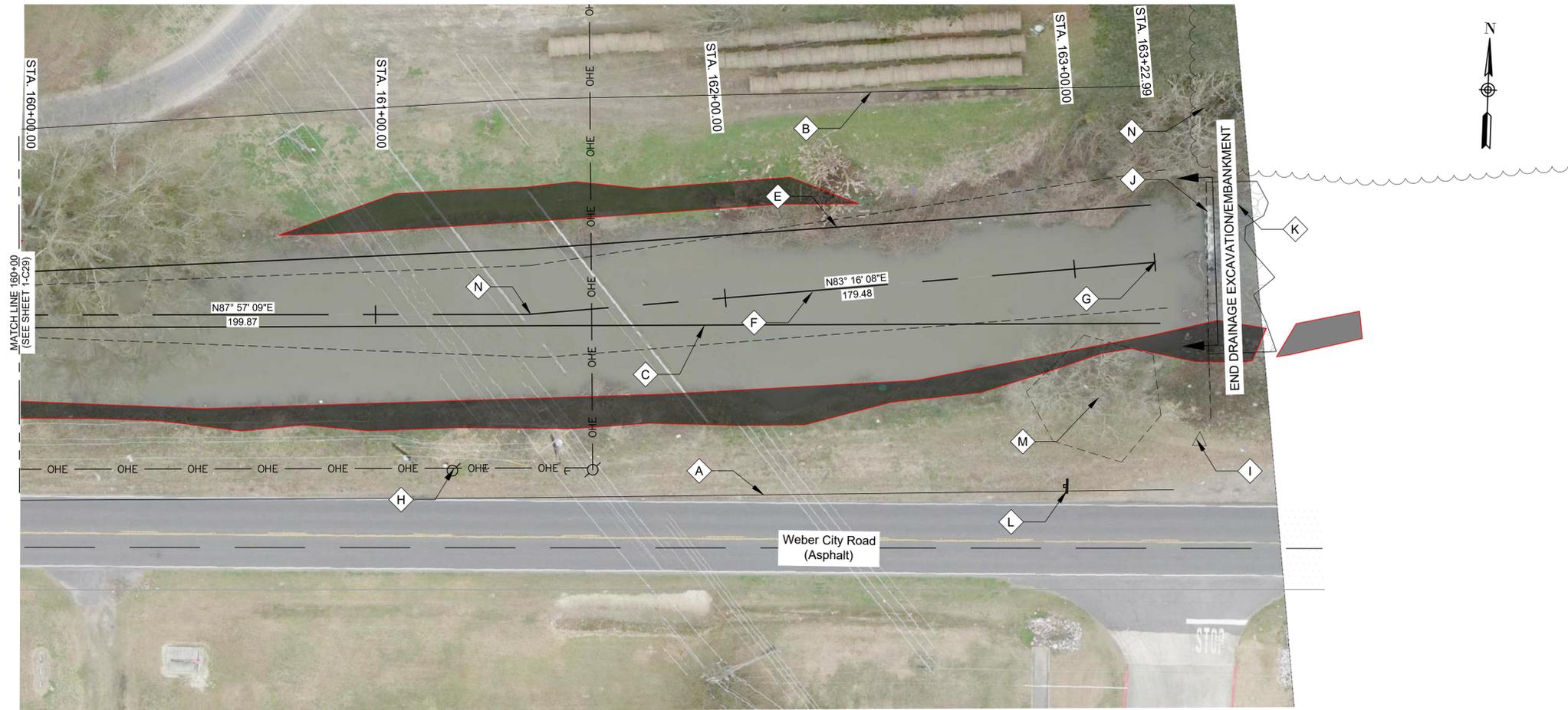
DESIGNED BY:	DRAWN BY:	CHECKED BY:
DAM/ARF	ARF/RMM	DAM

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

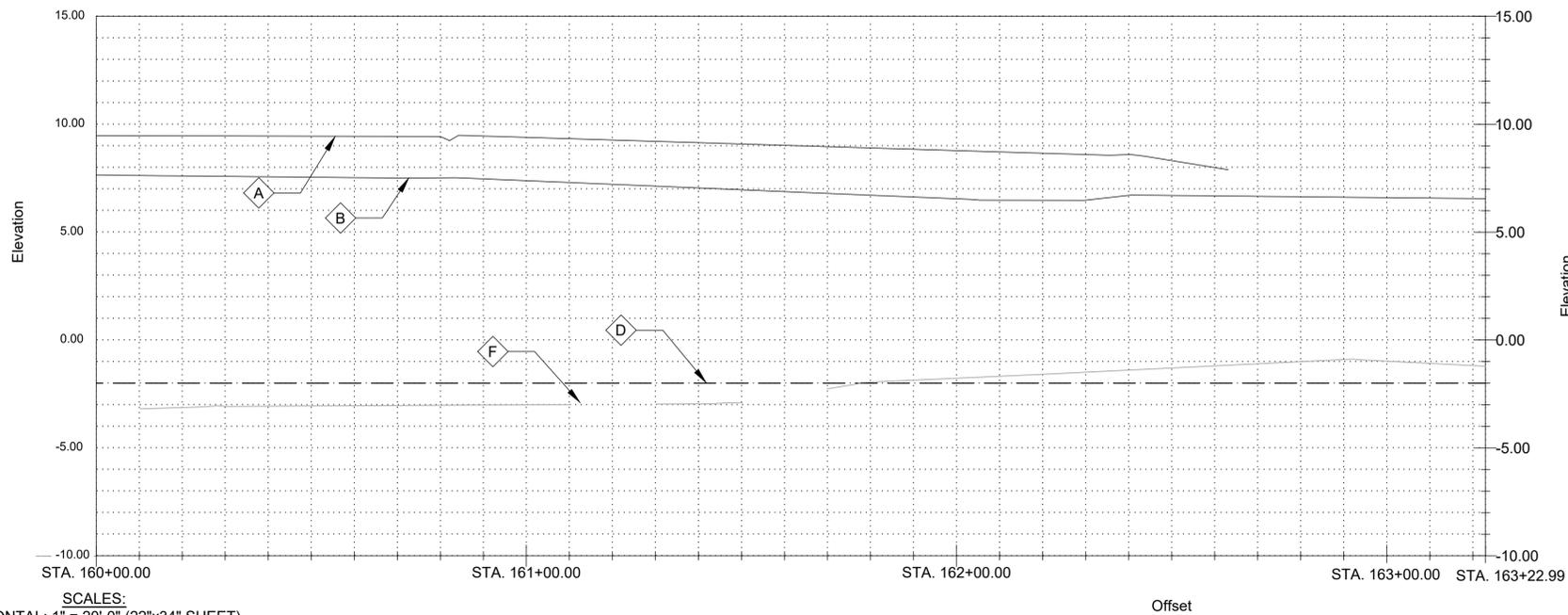
NEW RIVER CHANNEL IMPROVEMENTS
 LOUISIANA
 GONZALES
 EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
 42077 CHURCHPOINT ROAD, GONZALES, LA 70737
 PLAN & PROFILE

SHEET ID
1-C29

SHEET SET
73 OF **84**



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 ϵ .
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', ϵ OF NEW RIVER)
- \diamond E - BOTTOM OF CHANNEL (L.T.)
- \diamond F - SURVEYED ϵ OF NEW RIVER
- \diamond G - END OF PROJECT, STA. 163+22.99 (N: 631895.61, E: 3414907.21)
- \diamond H - POWER POLE WITH UNDERGROUND ELECTRIC LINE
- \diamond I - CONTROL POINT (BY SURVEYOR), SEE SURVEY FOR GEOMETRY
- \diamond J - EXISTING SHEET PILE WEIR TO REMAIN
- \diamond K - RIP-RAP
- \diamond L - EXISTING OBJECT MARKER, TO BE REMOVED AND REINSTALLED FOLLOWING CHANNEL SHAPING
- \diamond M - 24" TREE, TO REMAIN
- \diamond N - P.I. STA. 161+43.51 (N: 631874.5718, E: 3414728.9627)

LEGEND:

- MITIGATED WETLANDS (DISTURBANCE ALLOWED)
- EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)



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

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

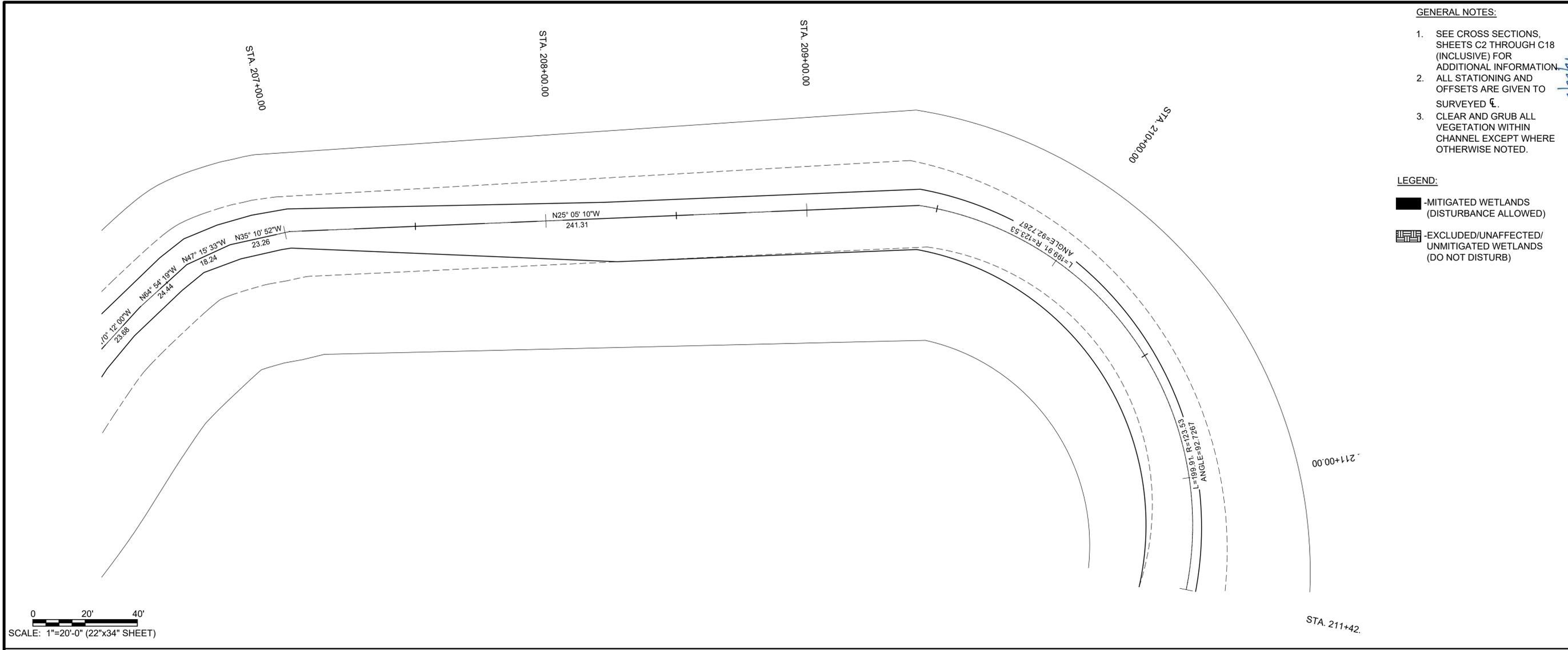


MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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)

- GENERAL NOTES:**
- SEE CROSS SECTIONS, SHEETS C2 THROUGH C18 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
 - ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ϵ .
 - CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED.

- LEGEND:**
- MITIGATED WETLANDS (DISTURBANCE ALLOWED)
 - EXCLUDED/UNAFFECTED/UNMITIGATED WETLANDS (DO NOT DISTURB)



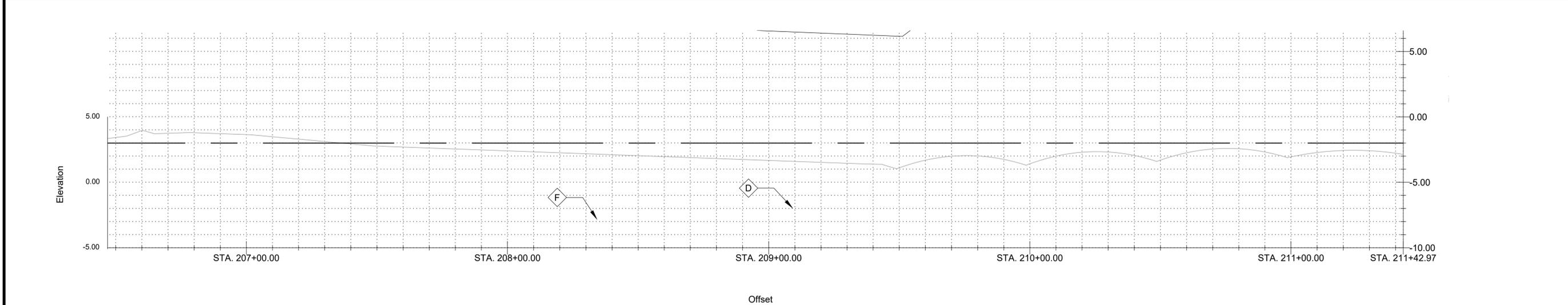
SUBMITTED BY: ANDREW FORD, E.I. PROJECT MANAGER
 LICENSE NO. 27823
 SUBMITTED BY: DAVID A. MARTIN, P.E. PRINCIPAL
 LICENSE NO. 27823



REVISION RECORD	
MARK	DESCRIPTION
	RELEASED FOR BIDS & CONSTRUCTION
	DATE: 07/2021
	BY: RM
	DATE: 07/2021
	BY: HDC
	DATE: 07/2021
	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



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

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-C32**
 SHEET SET: **76** OF **84**



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	07/2021	RM	HDC

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

EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1

42077 CHURCHPOINT ROAD, GONZALES, LA 70737

PLAN & PROFILE (GRAND GOUDINE)

SHEET ID: **2-C1**

SHEET SET: **77** OF **84**

GENERAL NOTES:

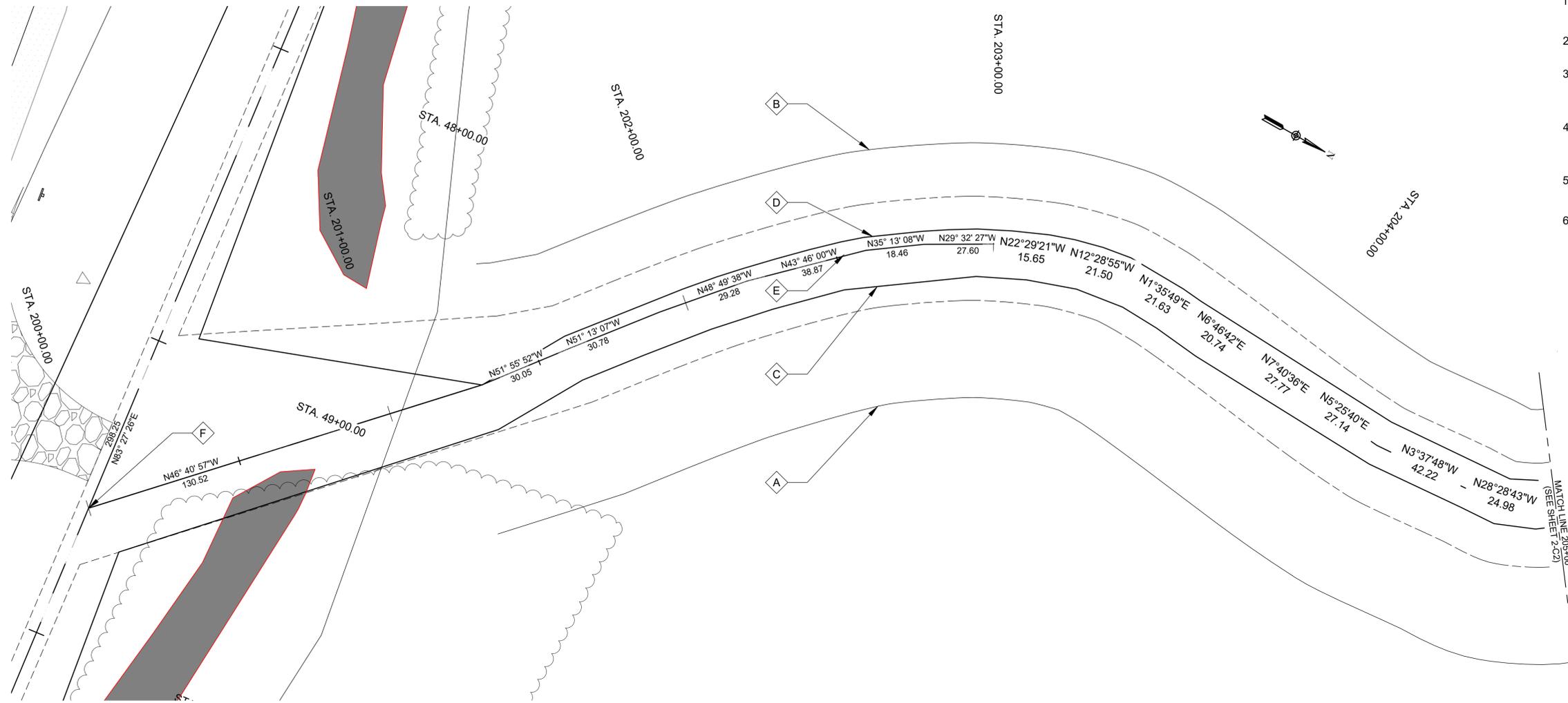
- SEE CROSS SECTIONS, SHEETS C31 THROUGH C32 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
- ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED \bar{C} .
- CLEAR AND GRUB ALL VEGETATION WITHIN CHANNEL EXCEPT WHERE OTHERWISE NOTED
- SEE SUMMARY OF DRAINAGE STRUCTURES, SHEET G9, FOR DRAINAGE STRUCTURE AND DRAIN 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 (L.T.)
- \diamond E - SURVEYED \bar{C} OF GRAND GOUDINE
- \diamond F - EQUATION, STA. 49+57.40 (NEW RIVER) AT STA. 200+00.00 (GRAND GOUDINE) (N: 632419.27, E: 3405252.35)
- \diamond G - BOTTOM OF CHANNEL (EL. -2.00)

LEGEND:

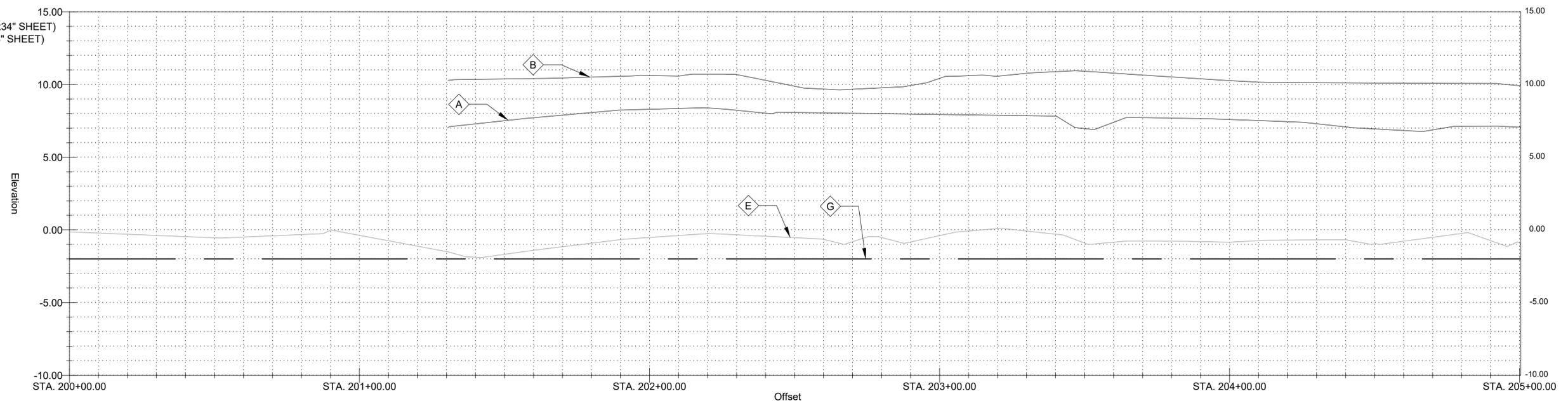
- MITIGATED WETLANDS (DISTURBANCE ALLOWED)
- EXCLUDED/UNAFFECTED/ UNMITIGATED WETLANDS (DO NOT DISTURB)



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)



Elevation

Offset

GENERAL NOTES:

1. SEE CROSS SECTIONS, SHEETS C31 THROUGH C32 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
2. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ∇ .
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 (L.T.)
- \diamond E - SURVEYED ∇ OF GRAND GOUDINE
- \diamond F - BOTTOM OF CHANNEL (EL. -2.00)



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

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



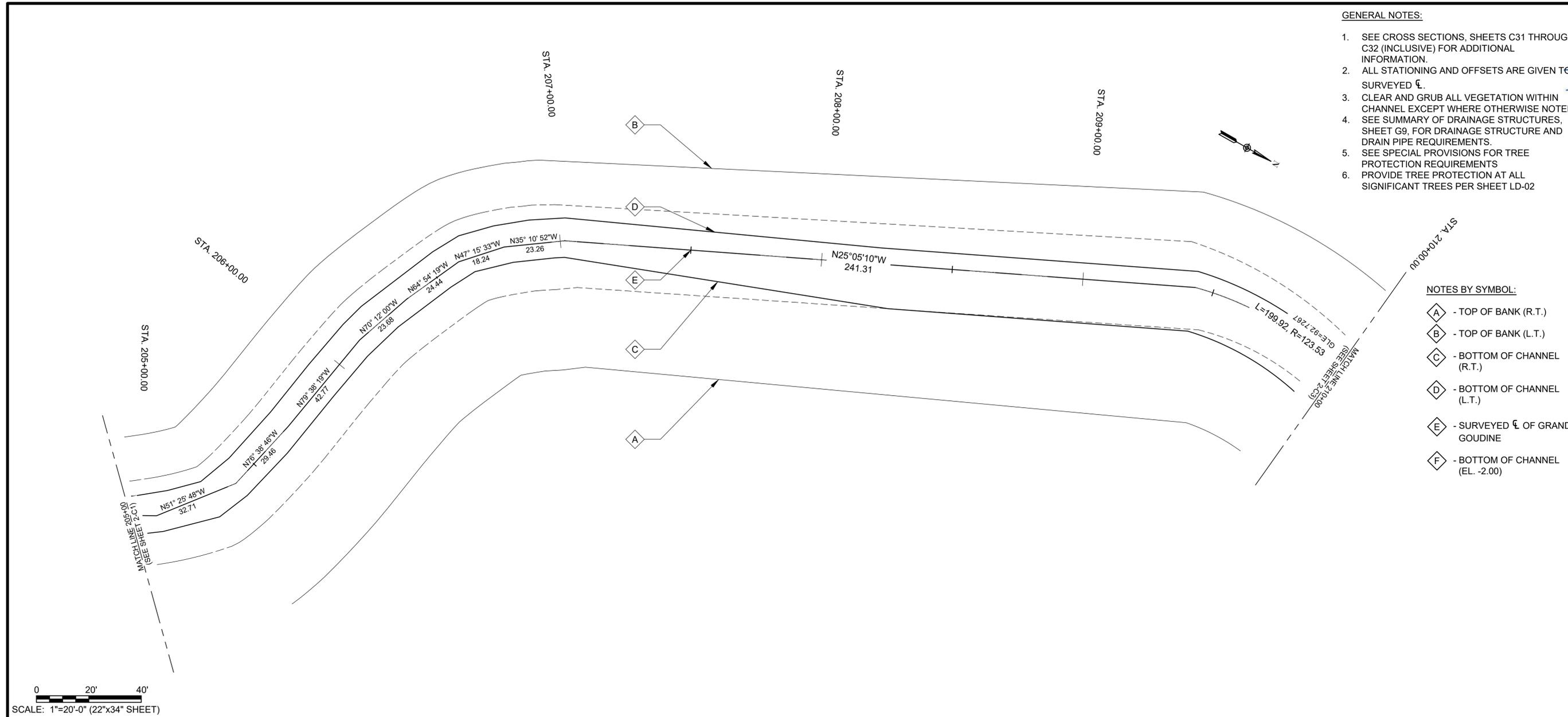
MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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

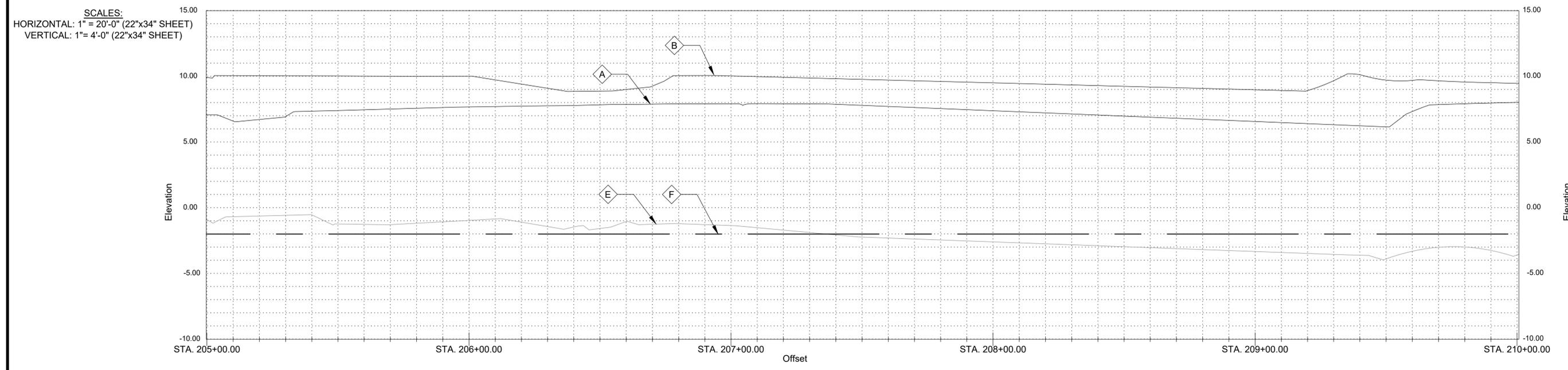
LOUISIANA
NEW RIVER CHANNEL IMPROVEMENTS
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
PLAN & PROFILE (GRAND GOUDINE)

SHEET ID
2-C2

SHEET SET
78 OF 84



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 C31 THROUGH C32 (INCLUSIVE) FOR ADDITIONAL INFORMATION.
2. ALL STATIONING AND OFFSETS ARE GIVEN TO SURVEYED ∇ .
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 (L.T.)
- \diamond E - SURVEYED ∇ OF GRAND GOUDINE
- \diamond F - BOTTOM OF CHANNEL (EL. -2.00)



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

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



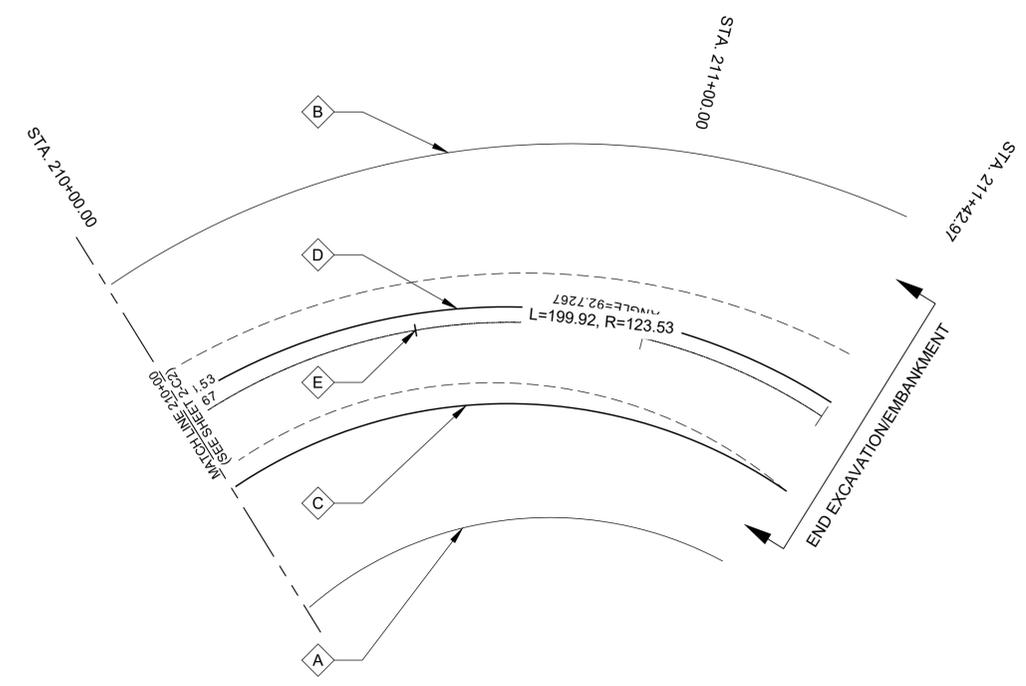
MARK	DESCRIPTION	DATE	BY	CHKD
-	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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)

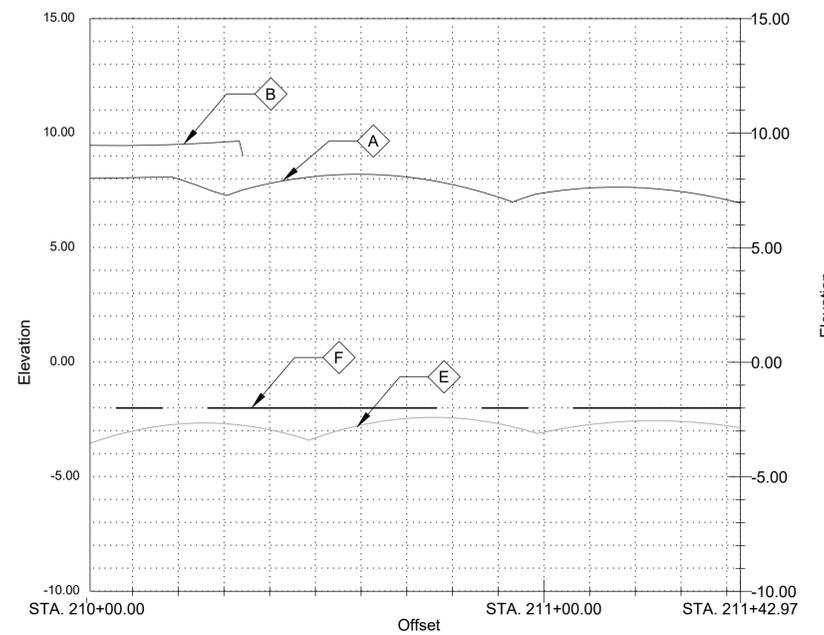
SHEET ID
2-C3

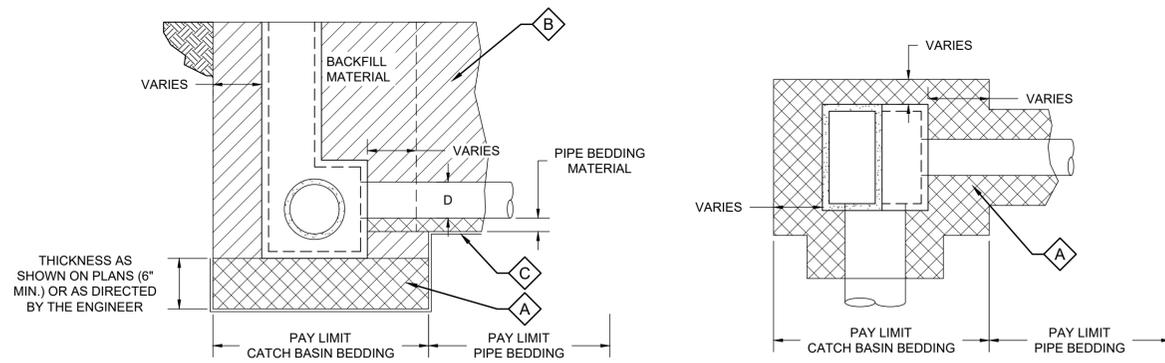
SHEET SET
79 OF **84**



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

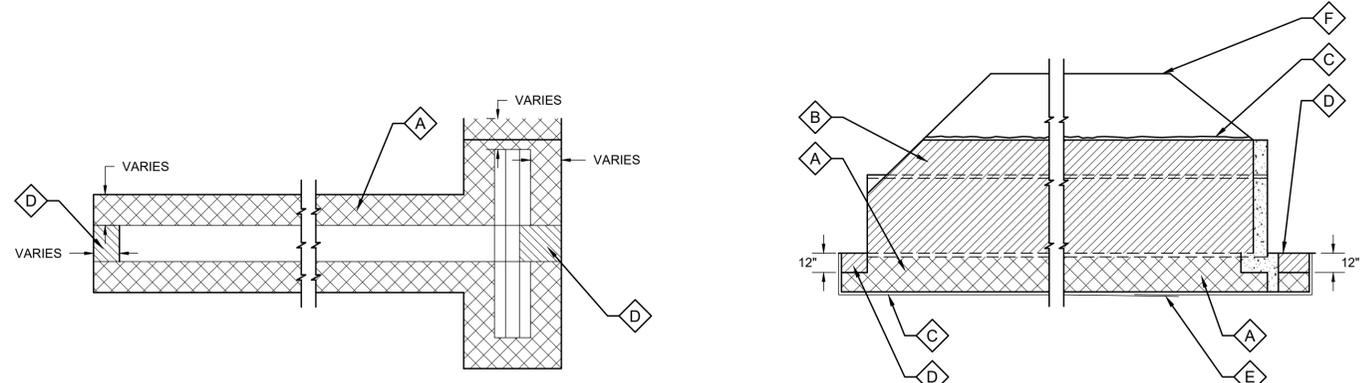
SCALES:
HORIZONTAL: 1" = 20'-0" (22"x34" SHEET)
VERTICAL: 1" = 4'-0" (22"x34" SHEET)





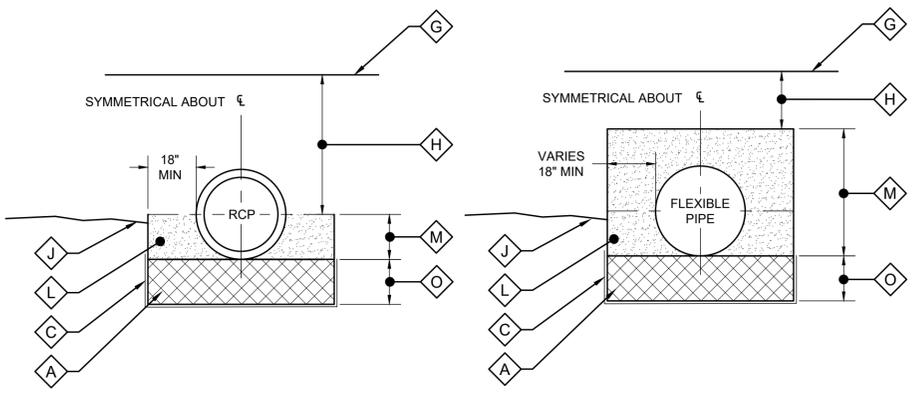
TYPICAL CATCH BASIN AND STORM DRAIN PIPE INSTALLATION

SCALE: N.T.S.



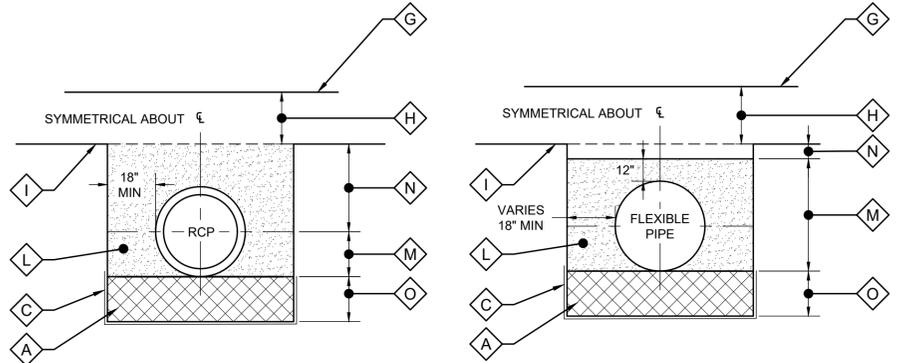
TYPICAL CROSS DRAIN INSTALLATION

SCALE: N.T.S.



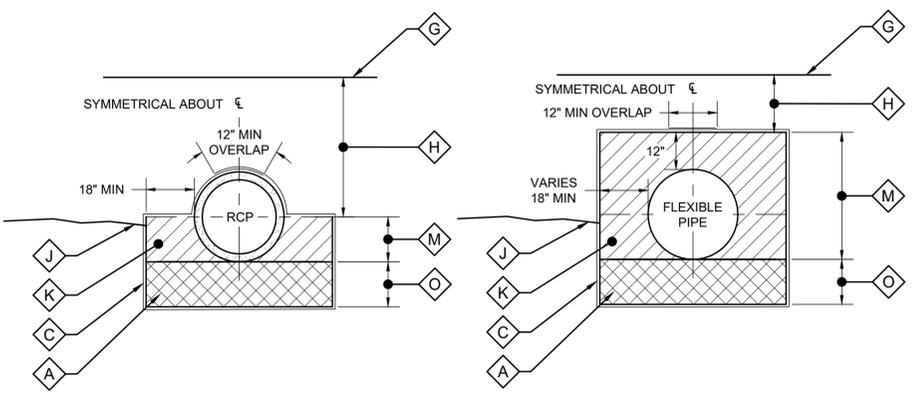
PIPE INSTALLATION FOR RIGID PAVEMENT OR OTHER AREA WHERE TOP OF PIPE IS ABOVE EXISTING GROUND

SCALE: N.T.S.



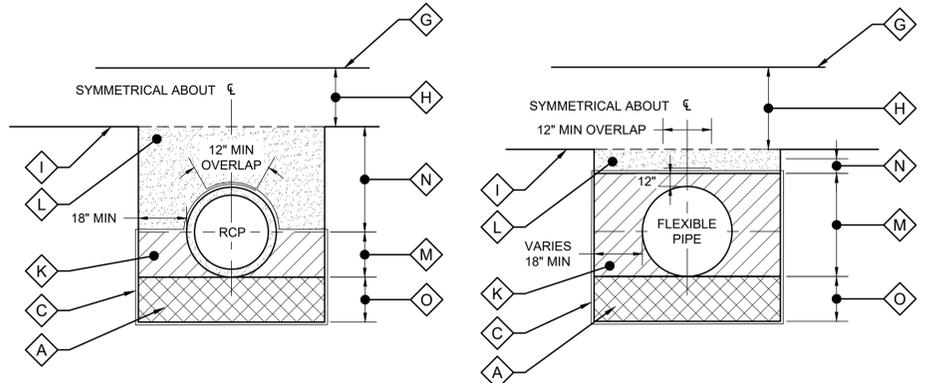
PIPE INSTALLATION FOR RIGID PAVEMENT OR OTHER AREA WHERE TOP OF PIPE IS BELOW EXISTING GROUND

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:

1. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND MATERIAL DEFINITIONS.
2. 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:
ANDREW L. COLE, E.I.
PROJECT MANAGER

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



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/20/21	RM	HDC

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

DATE: APRIL, 2019

DETAILED BY: ARF/RMM

HDC PROJECT NO. 2017-14

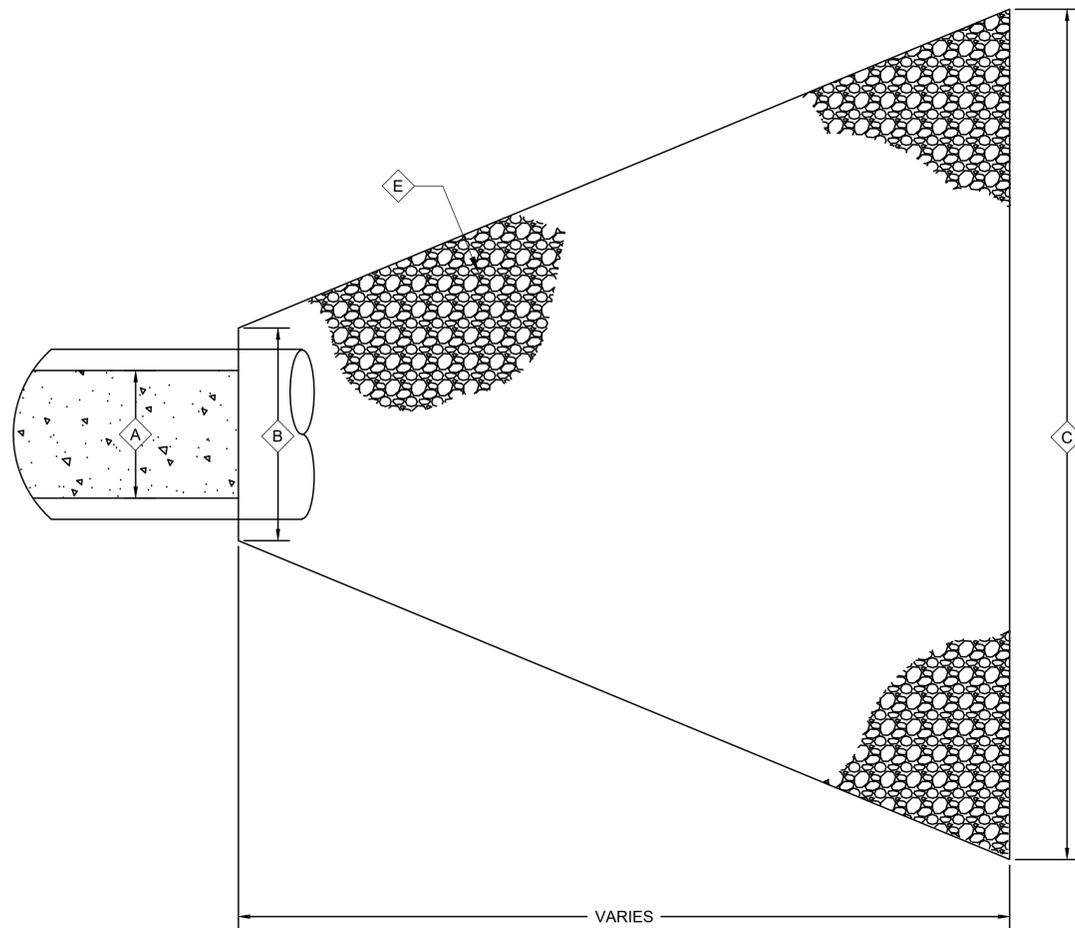
LOUISIANA

NEW RIVER CHANNEL IMPROVEMENTS

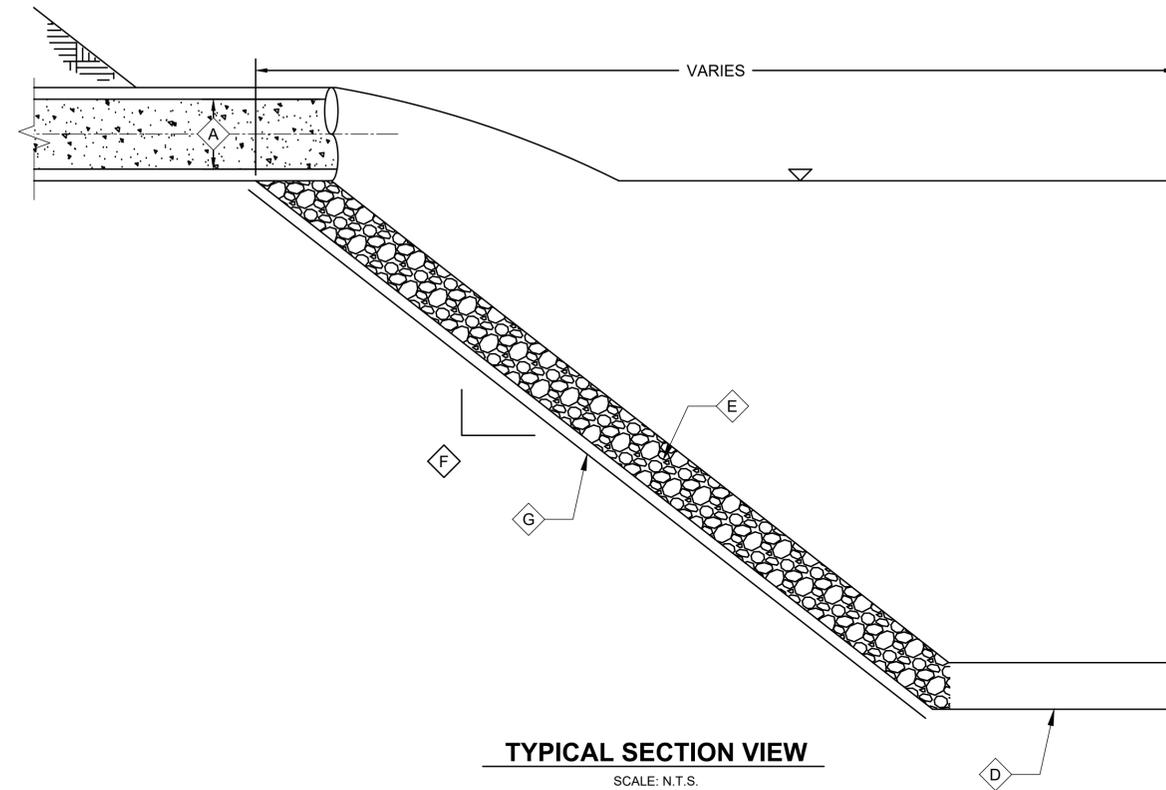
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1

42077 CHURCHPOINT ROAD, GONZALES, LA 70737

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:

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



SUBMITTED BY:
ANDREW L. COLE, E.I.
PROJECT MANAGER

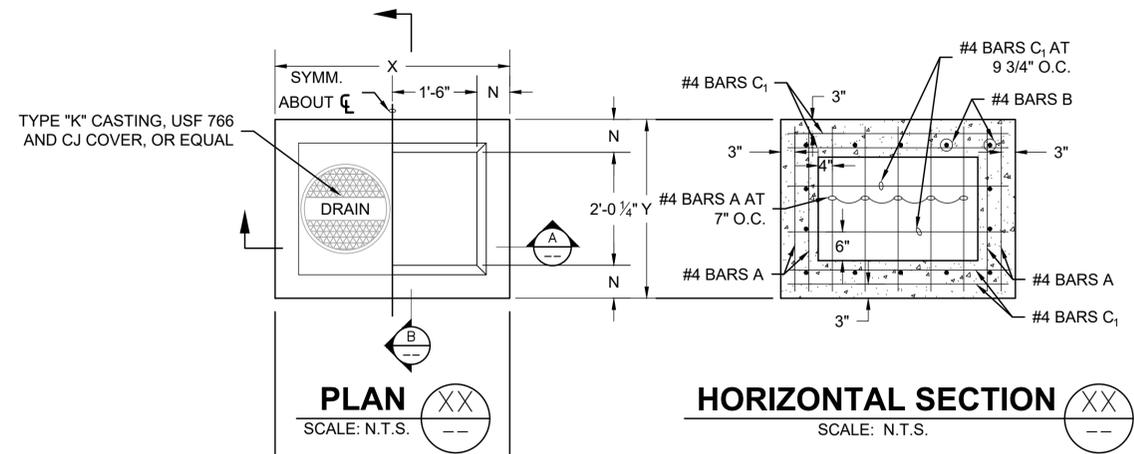
SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

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

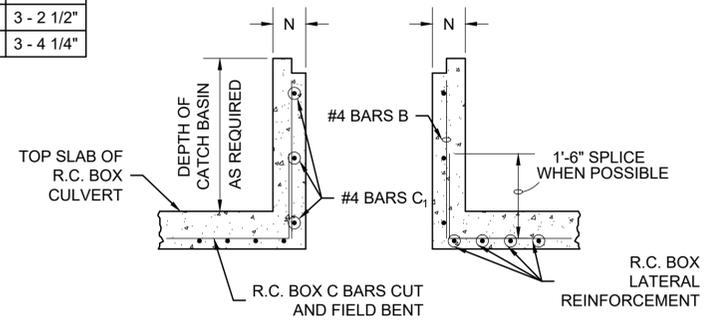
LOUISIANA
NEW RIVER CHANNEL IMPROVEMENTS
GONZALES
EAST ASCENSION CONSOLIDATED GRAVITY DRAINAGE DISTRICT NO.1
42077 CHURCHPOINT ROAD, GONZALES, LA 70737
OUTFALL PROTECTION FOR PIPE EXTENSIONS



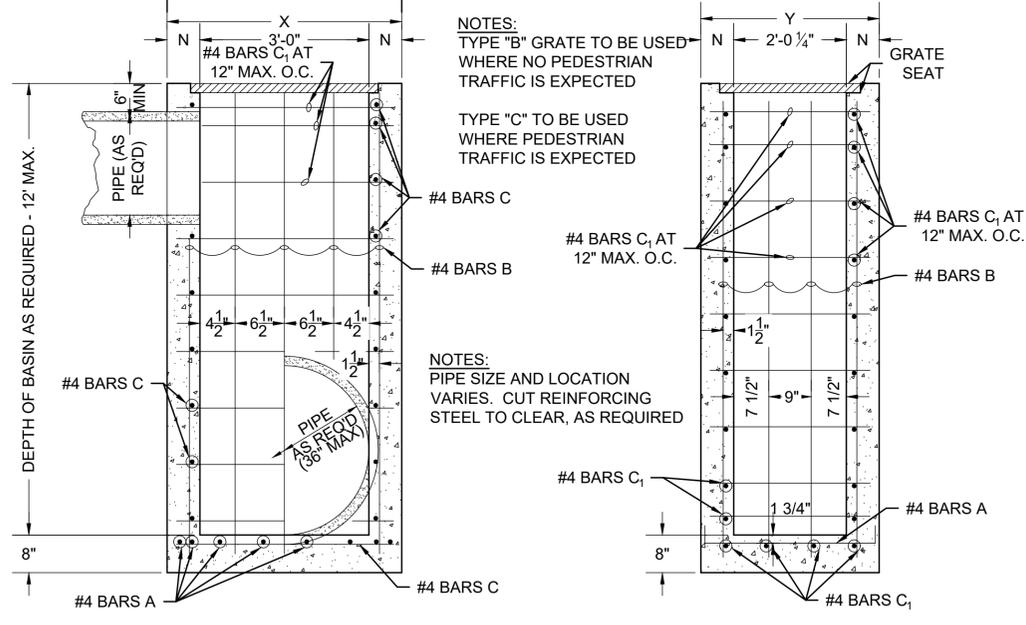
PLAN
SCALE: N.T.S.

HORIZONTAL SECTION
SCALE: N.T.S.

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"

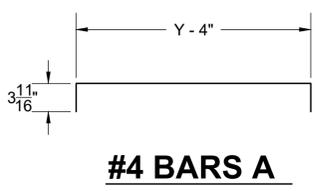


LONGITUDINAL SECTION
SCALE: N.T.S.

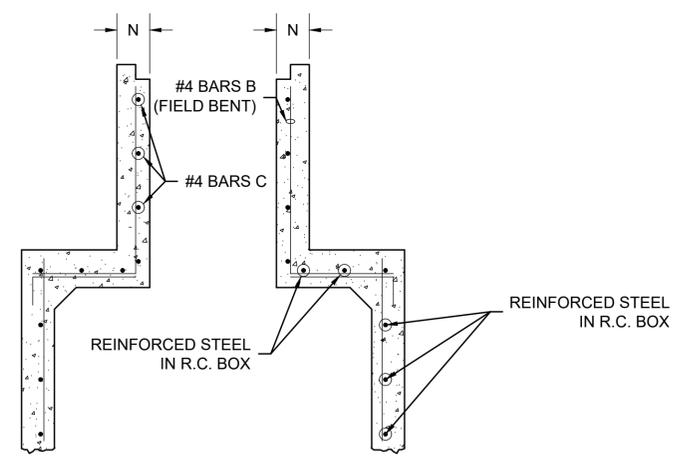


SECTION A
SCALE: N.T.S.

SECTION B
SCALE: N.T.S.



#4 BARS A



TRANSVERSE SECTION
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 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:
ANDREW FORD, E.I.
PROJECT MANAGER

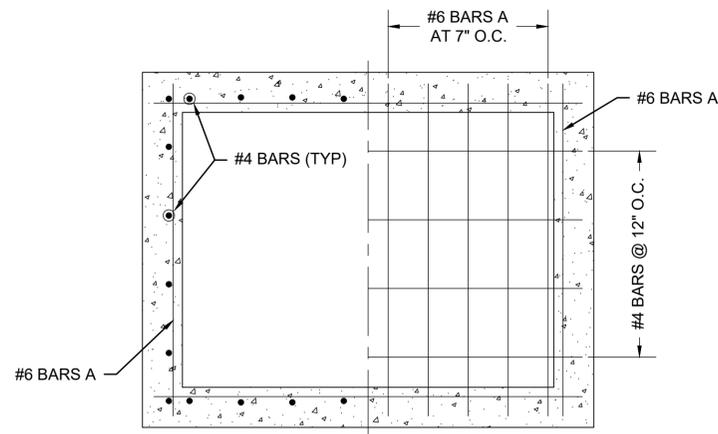
SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

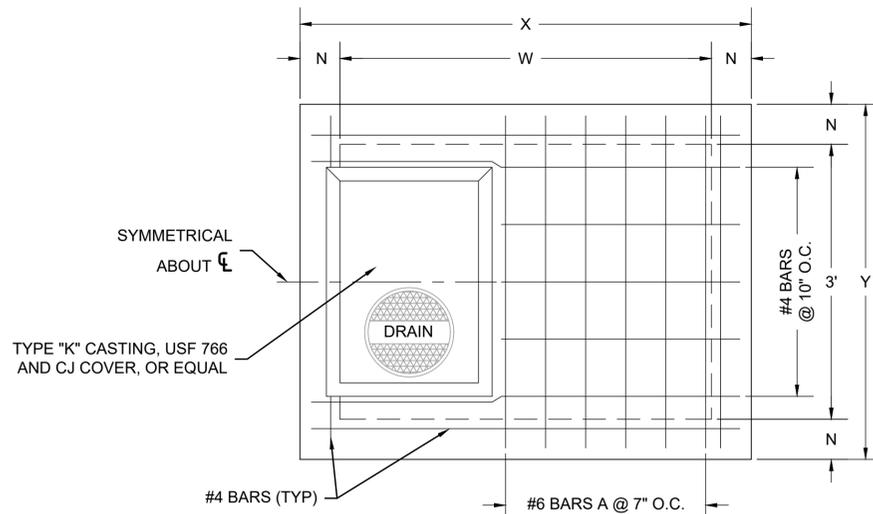
DESIGNED BY:	DATE:	DETAILED BY:	DATE:	CHECKED BY:	DATE:
DAM/ARF	APRIL, 2019	ARF/RMM	APRIL, 2019	ARF/RMM	APRIL, 2019

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

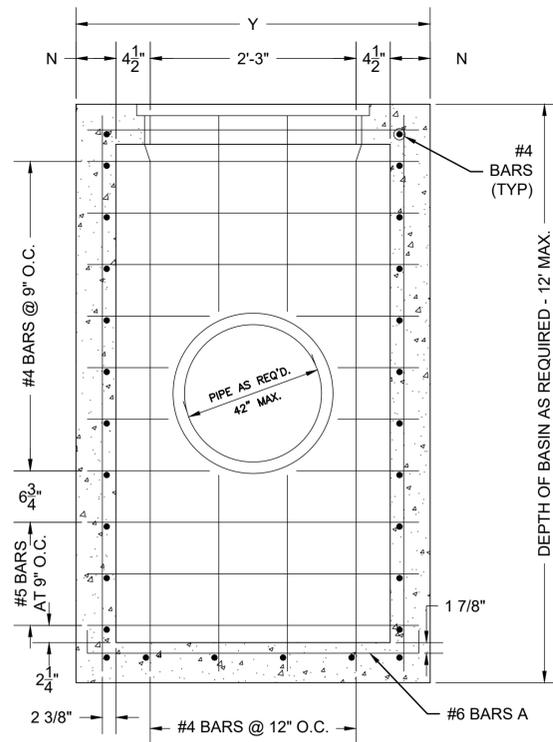
(GRATE TO BE TYPE "B" OR "C". TYPE "B" SHOWN)
SCALE: N.T.S. (22"x34" SHEET)

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

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

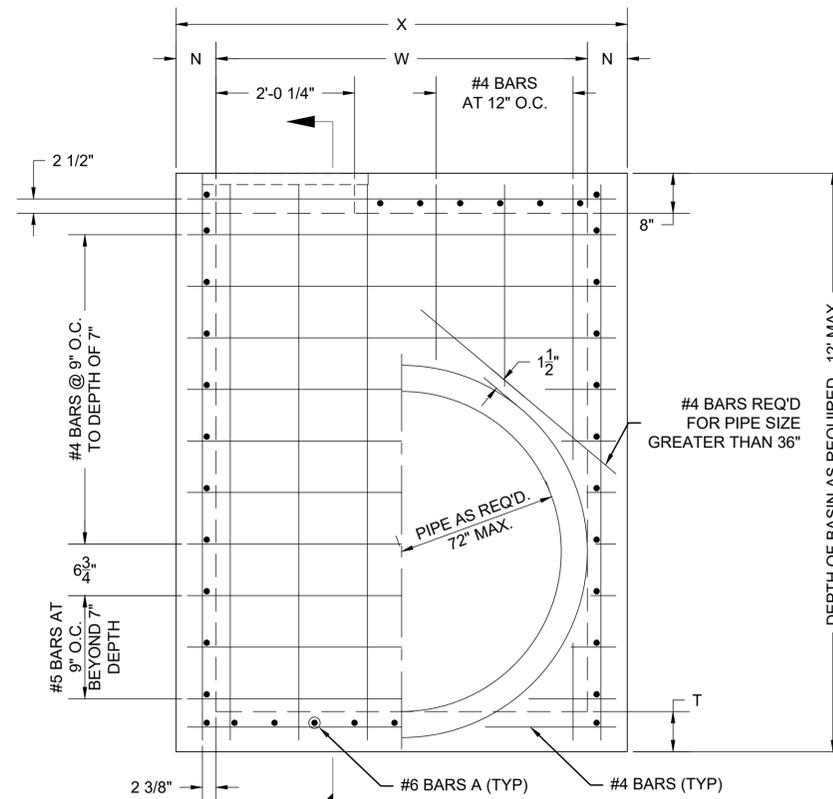
TRUNK PIPE	DIMENSIONS									
	DEPTH TO 8'					DEPTH 8' TO 12'				
	N	T	W	X	Y	N	T	W	X	Y
42	7	9	4-3	5-5	5-2	8	9	4-3	5-7	5-4
48	7	9	4-10	6-0	5-2	8	9	4-10	6-2	5-4
54	7	9	5-5	6-7	5-2	8	9	5-5	6-9	5-4
60	7	10	6-0	7-2	5-2	8	10	6-0	7-4	5-4
66	7	10	6-7	7-9	5-2	8	10	6-7	7-11	5-4
72	7	10	7-2	8-4	5-2	8	10	7-2	8-6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

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



SECTION

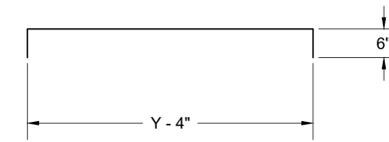
SCALE: N.T.S. (22"x34" SHEET)



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:
ANDREW FORD, E.I.
PROJECT MANAGER

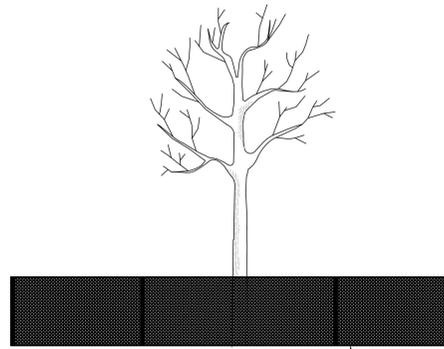
SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL



MARK	DESCRIPTION	DATE	BY	CHKD
	RELEASED FOR BIDS & CONSTRUCTION	07/2021	RM	HDC

DESIGNED BY:	DATE:	DETAILED BY:	DATE:
DAM/ARF	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
CB-02 (MODIFIED)

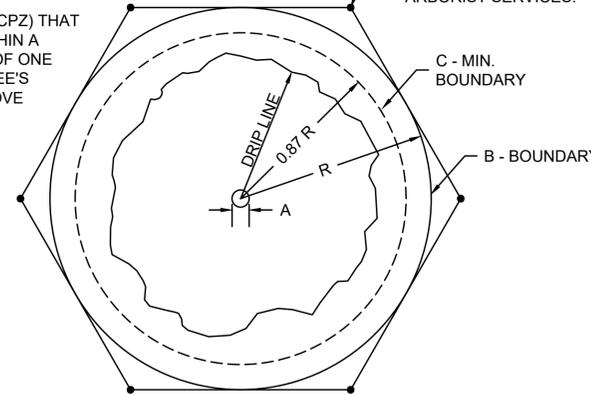


CONSTRUCTION/BARRIER FENCING TO BE MIN. 4' HT. AND ANCHORED WITH 'U' OR 'T' STYLE STEEL FENCE POSTS. THE BARRICADES SHALL BE PLACED TO ENCOMPASS THE CRITICAL PROTECTION ZONE (CPZ) OF THE TREE. (ALL LABOR, MATERIALS, INCIDENTALS SHALL BE INCLUDED IN THE COST OF ARBORIST SERVICES.)

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:
ANDREW FORD, E.I.
PROJECT MANAGER
LICENSE NO. 27823

SUBMITTED BY:
DAVID A. MARTIN, P.E.
PRINCIPAL
LICENSE NO. 27823

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

MARK	DESCRIPTION	DATE	BY	CHKD
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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: **84** OF **84**