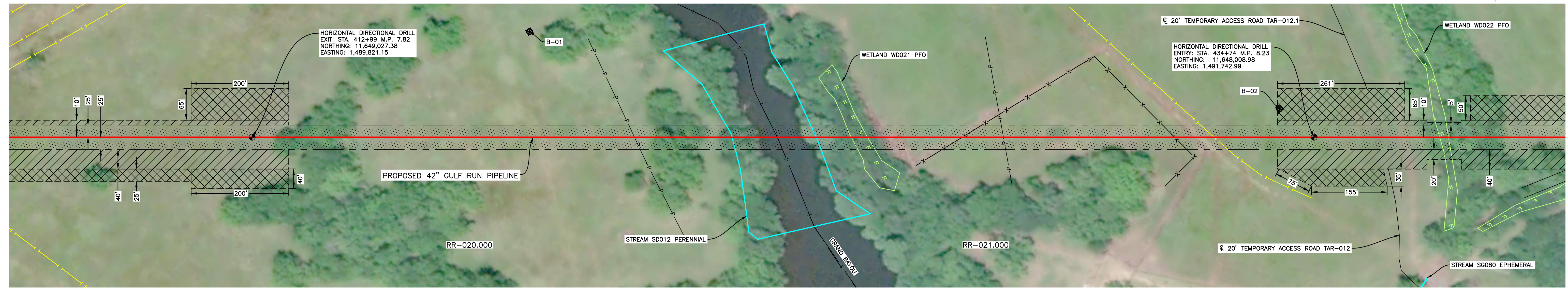
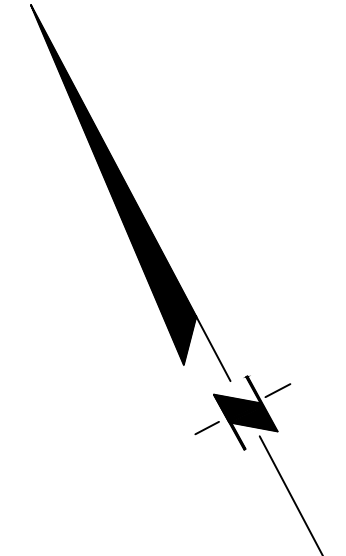


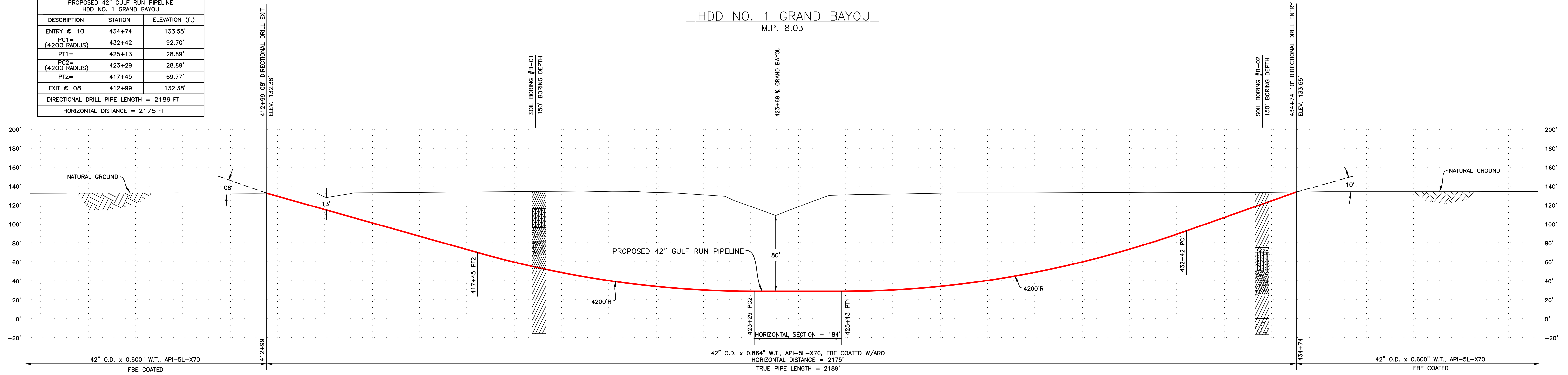
RED RIVER PARISH, LOUISIANA
SECTION 27, T13N – R11W

- 420+89 POWER LINE
- 421+07 POWER POLE 53' RT.
- 421+16 CUT ANCHOR 70' RT.
- 422+67 TOP BANK
- 422+82 ENTER STREAM
- 422+87 WATERS EDGE
- 423+68 E GRAND BAYOU
- 424+53 WATERS EDGE
- 424+54 EXIT STREAM
- 424+87 TOP BANK
- 425+28 ENTER WETLAND
- 425+60 EXIT WETLAND
- 427+53 FENCE, BARBED WIRE
- 428+38 POWER LINE
- 431+89 FENCE, BARBED WIRE
- 432+69 EXISTING PIPELINE



PLAN
SCALE: 1" = 100'
HDD NO. 1 GRAND BAYOU
M.P. 8.03

DIRECTIONAL DRILL DATA PROPOSED 42" GULF RUN PIPELINE HDD NO. 1 GRAND BAYOU		
DESCRIPTION	STATION	ELEVATION (ft)
ENTRY @ 10'	434+74	133.55'
(4200 RADIUS)	432+42	92.70'
PT1 =	425+13	28.89'
PC2 =	423+29	28.89'
(4200 RADIUS)	417+45	69.77'
PT2 =	412+99	132.38'
EXIT @ 08'	412+99	132.38'
DIRECTIONAL DRILL PIPE LENGTH = 2189 FT		
HORIZONTAL DISTANCE = 2175 FT		



PROFILE
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 50'

- NOTES:
- VERTICAL DATUM: NAVD 88, HORIZONTAL DATUM: NAD83 UTM15, NORTH ZONE, US FOOT.
 - CONTRACTOR TO DETERMINE PILOT BORE AND FINAL REAMED DIAMETER TO ACCOMMODATE THEIR MEANS AND METHODS.
 - ABSOLUTE MINIMUM ALLOWABLE DRILLING RADIUS SHALL BE 2,800 FEET BASED ON A 3 JOINT AVERAGE.
 - THE ENTRY POINT SHALL BE AS SHOWN ON THE DRAWINGS. THE EXIT POINT SHALL BE NO MORE THAN 0 FEET SHORT OR 20 FEET LONG RELATIVE TO THE EXIT POINT SHOWN ON THE DRAWINGS.
 - THE PILOT BORE SHALL DEVIATE NO MORE THAN 3 FEET HORIZONTALLY OFF THE ALIGNMENT AS SHOWN ON THE DRAWINGS.
 - THE PILOT BORE SHALL NOT EXCEED MORE THAN 2 FEET ABOVE AND 10 FEET BELOW THE ELEVATION SHOWN ON THE DRAWINGS.
 - HDD OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH ALL PERMIT REQUIREMENTS AND COMPANY SPECIFICATIONS.
 - THROUGHOUT THE PILOT BORE DRILLING FLUID PRESSURES SHALL BE MEASURED AT ALL TIMES AND AT A POINT AS CLOSE AS POSSIBLE BEHIND THE DRILL BIT.
 - THE PILOT BORE SHALL BE CONTINUOUSLY TRACKED AT ALL TIMES. NO BLIND SECTIONS SHALL BE PERMITTED, EVEN WHEN THE BIT IS UNDER WATER.
 - IF THE CONTRACTOR ENCOUNTERS AN OBSTRUCTION WHICH PREVENTS THE INSTALLATION ACCORDING TO THE SPECIFICATIONS, THE BORE SHALL BE ABANDONED IN PLACE AND IMMEDIATELY FILLED WITH GROUT. WORK SHALL NOT RESUME UNTIL REVISED PLANS AND PROCEDURES HAVE BEEN SUBMITTED TO AND APPROVED BY OWNER.
 - THE CONTRACTOR SHALL IDENTIFY AND PROTECT ANY FOREIGN UTILITY THAT MAY BE AFFECTED BY THE HDD OPERATIONS. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR CALLING THE APPROPRIATE ONE-CALL AND LOCATING ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION. IF ANY UTILITY IS LOCATED WITHIN 15 FEET OF THE PROPOSED HDD PROFILE AND ALIGNMENT, CONTRACTOR SHALL GAIN APPROVAL FROM ENABLE GULF RUN TRANSMISSION PRIOR TO BEGINNING HDD OPERATIONS.

BORE LEGEND

LEAN CLAY WITH SAND (CL)	SANDY FAT CLAY (CH)
LEAN CLAY (CL)	SILTY SAND (SM)
SILTY CLAY (CL-ML)	SANDY LEAN CLAY (CL)
CLAYEY SAND (SC)	FAT CLAY WITH SAND (CH)
FAT CLAY (CH)	

LEGEND

[Pattern]	PROPOSED PERMANENT EASEMENT
[Pattern]	PROPOSED TEMPORARY WORKSPACE
[Pattern]	EXTRA TEMPORARY WORKSPACE
[Symbol]	WETLAND

1.) EXCAVATE WITH CAUTION! EXACT LOCATIONS OF EXISTING UNDERGROUND PIPES AND UTILITIES ARE UNKNOWN.

2.) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

M M
MOTT MACDONALD

101 CROSLY STREET,
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LOUISIANA ENGINEERING
FIRM NO. EF-0003450

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PROPRIETARY
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REV	LEVEL	DATE	BY	DESCRIPTION	CK.	APP.	CK.	APP.	CK.	APP.
B		01/31/20	MM	ISSUED FOR FERC APPLICATION	JOI	CKF				
A		11/15/19	JRC	ISSUED FOR FERC	JOI	CKF				
					CK.	APP.	CK.	APP.	CK.	APP.
					MM DRAFT.	DEPT.	EGT PRJ.	MGT.	DESIGN	ENG.

ENABLE **Enable Gulf Run Transmission, LLC**
OKLAHOMA CITY, OK

GULF RUN

**GULF RUN PIPELINE
PROPOSED 42" GULF RUN PIPELINE
HDD NO. 1 GRAND BAYOU
STA. NO. 412+99 TO STA. NO. 434+74
RED RIVER PARISH, LOUISIANA**

SCALE	CREATED ON	LAST EDIT	DRAWN BY	D PL	EGRT-GR	008 F B
AS NOTED	07/15/19	01/30/20	JRC-MM			

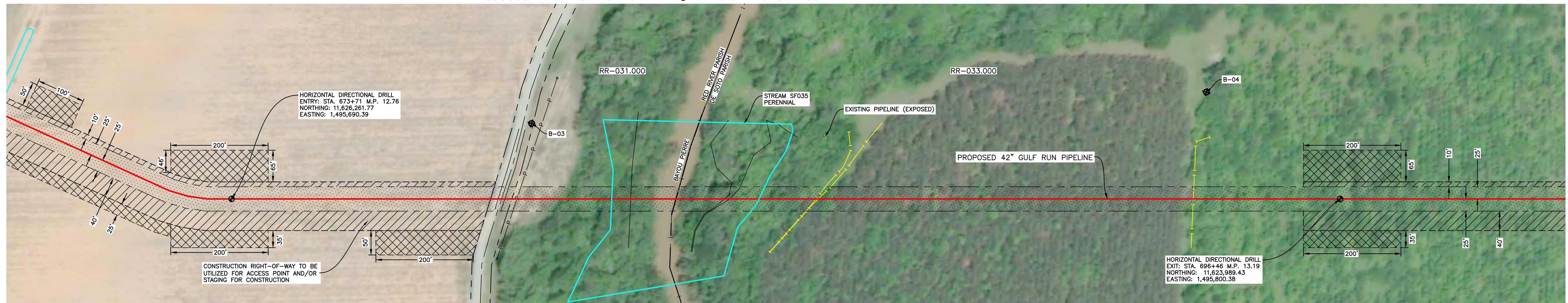
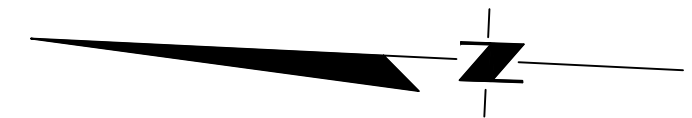
RED RIVER & DE SOTO PARISHES, LOUISIANA
SECTION 14, T12N - R11W

679+02 R/W OF ROAD
679+08 EDGE OF ROAD
679+12 PARISH ROAD 609
679+32 EDGE OF ROAD
679+46 R/W, POWER LINE
679+56 POWER LINE

680+94 TOP BANK
681+51 ENTER STREAM
681+90 WATERS EDGE
TOE OF SLOPE
683+02 & BAYOU PIERRE
683+83 WATERS EDGE
683+93 TOE OF SLOPE
684+53 EXIT STREAM
684+91 TOP BANK

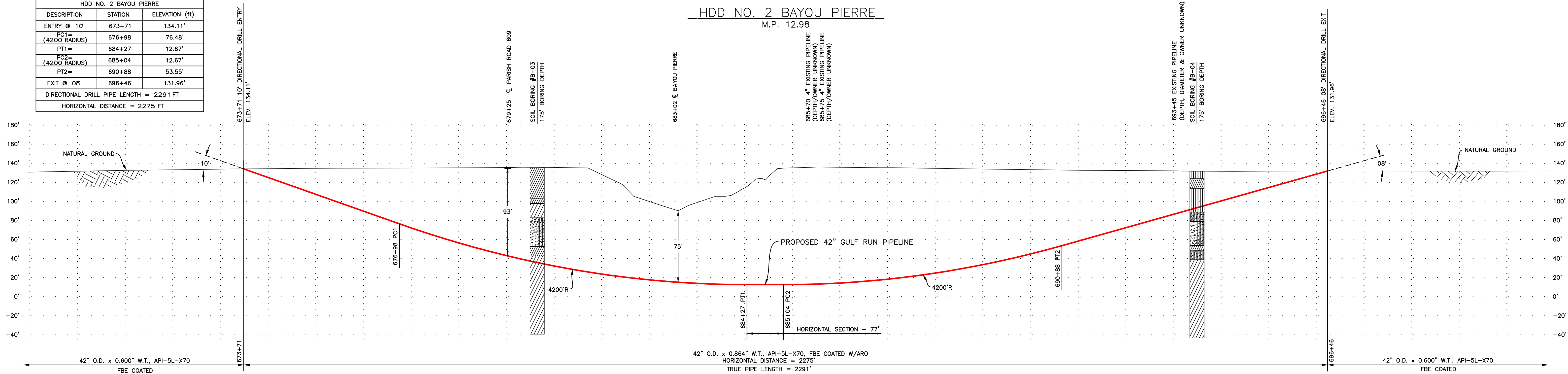
686+70 4" EXISTING PIPELINE
685+75 4" EXISTING PIPELINE

693+45 EXISTING PIPELINE



PLAN
SCALE: 1" = 100'
HDD NO. 2 BAYOU PIERRE
M.P. 12.98

DIRECTIONAL DRILL DATA PROPOSED 42" GULF RUN PIPELINE HDD NO. 2 BAYOU PIERRE		
DESCRIPTION	STATION	ELEVATION (ft)
ENTRY @ 10'	673+71	134.11'
(4200' RADIUS)	676+98	76.48'
PT1 =	684+27	12.67'
PC2 =	685+04	12.67'
(4200' RADIUS)	690+88	53.55'
PT2 =	696+46	131.96'
EXIT @ 08'		
DIRECTIONAL DRILL PIPE LENGTH = 2291 FT		
HORIZONTAL DISTANCE = 2275 FT		



PROFILE
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 50'

NOTES:

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BORE LEGEND

- LEAN CLAY WITH SAND (CL)
- LEAN CLAY (CL)
- FAT CLAY (CH)
- SILTY SAND (SM)
- POORLY GRADED SAND WITH SILT (SP-SM)
- SILT (ML)

- LEGEND
- PROPOSED PERMANENT EASEMENT
 - PROPOSED TEMPORARY WORKSPACE
 - EXTRA TEMPORARY WORKSPACE
 - WETLAND

- EXCAVATE WITH CAUTION! EXACT LOCATIONS OF EXISTING UNDERGROUND PIPES AND UTILITIES ARE UNKNOWN.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

M M
MOTT MACDONALD

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FIRM NO. EF-0003450

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					CK.	APP.	CK.	APP.	CK.	APP.
					MM DRAFT.	DEPT.	EGT PRJ.	MGT.	DESIGN	ENG.

REVISIONS

ENABLE OKLAHOMA CITY, OK

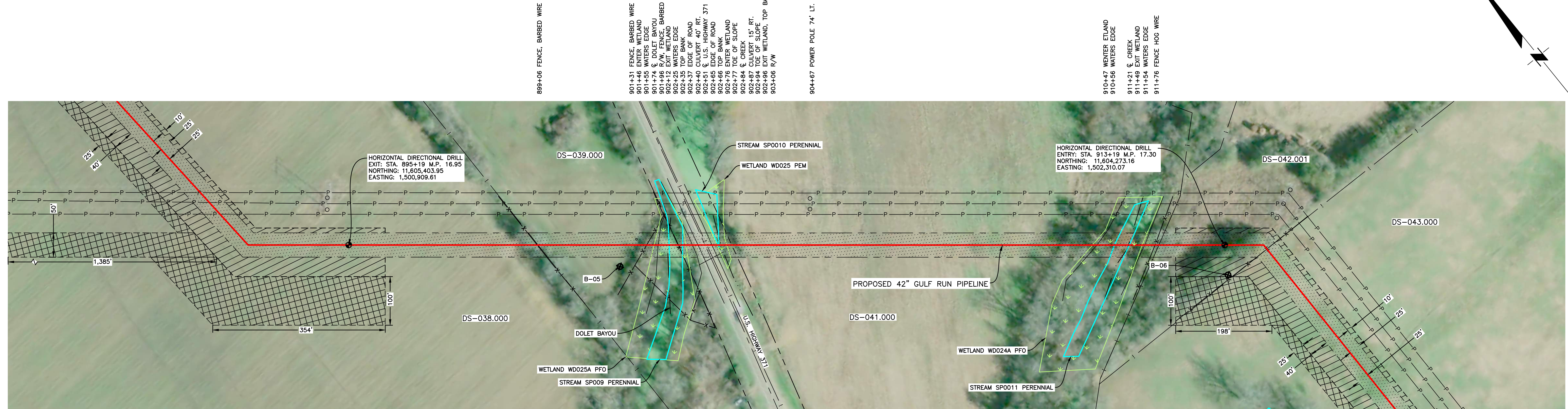
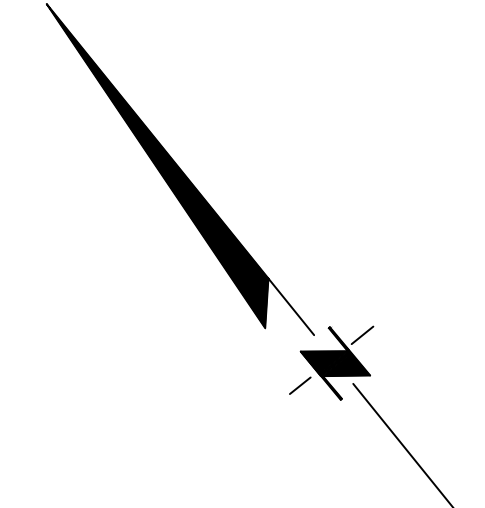
Enable Gulf Run Transmission, LLC

GULF RUN

GULF RUN PIPELINE
PROPOSED 42" GULF RUN PIPELINE
HDD NO. 2 BAYOU PIERRE
STA. NO. 673+71 TO STA. NO. 696+46
RED RIVER & DE SOTO PARISHES, LOUISIANA

SCALE	CREATED ON	LAST EDIT	DRAWN BY	D	PL	EGRT-GR	012	F	B
AS NOTED	07/15/19	01/30/20	JRC-MM	SHT	JOB	NO.	DWG	SHEET	REF
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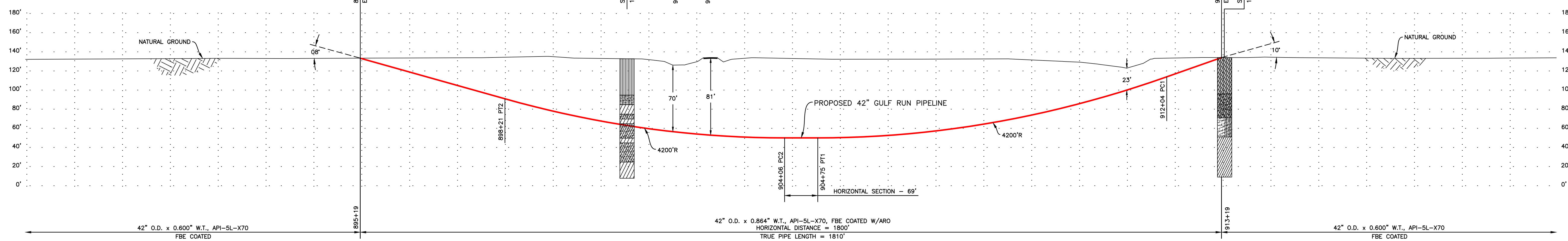
DE SOTO PARISH, LOUISIANA
SECTION 1, T11N - R11W



DIRECTIONAL DRILL DATA PROPOSED 42" GULF RUN PIPELINE HDD NO. 3 DOLET BAYOU		
DESCRIPTION	STATION	ELEVATION (ft)
ENTRY @ 10'	913+19	133.99'
PC1 = (4200' RADIUS)	912+04	113.78'
PT1 =	904+75	49.98'
PC2 = (4200' RADIUS)	904+06	49.98'
PT2 =	898+21	90.85'
EXIT @ 08'	895+19	133.33'
DIRECTIONAL DRILL PIPE LENGTH = 1810 FT		
HORIZONTAL DISTANCE = 1800 FT		

PLAN
SCALE: 1" = 100'

HDD NO. 3 DOLET BAYOU
M.P. 17.13



PROFILE
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 50'

- NOTES:
- VERTICAL DATUM: NAVD 88, HORIZONTAL DATUM: NAD83 UTM15, NORTH ZONE, US FOOT.
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BORE LEGEND

SILTY CLAY (CL-ML)	POORLY GRADED SAND WITH SILT (SP-SM)
CLAYEY SAND (SC)	SILT (ML)
FAT CLAY (CH)	SILTY CLAY WITH SAND (CL-ML)
SILTY SAND (SM)	

LEGEND

[Symbol]	PROPOSED PERMANENT EASEMENT
[Symbol]	PROPOSED TEMPORARY WORKSPACE
[Symbol]	EXTRA TEMPORARY WORKSPACE
[Symbol]	WETLAND

1.) EXCAVATE WITH CAUTION!! EXACT LOCATIONS OF EXISTING UNDERGROUND PIPES AND UTILITIES ARE UNKNOWN.
2.) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

M M
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LOUISIANA ENGINEERING
FIRM NO. E7-0003450

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					CK.	APP.	CK.	APP.	CK.	APP.
					MM	DRAFT.	DEPT.	EGT	PRJ.	MGT.
									DESIGN	ENG.

REVISIONS

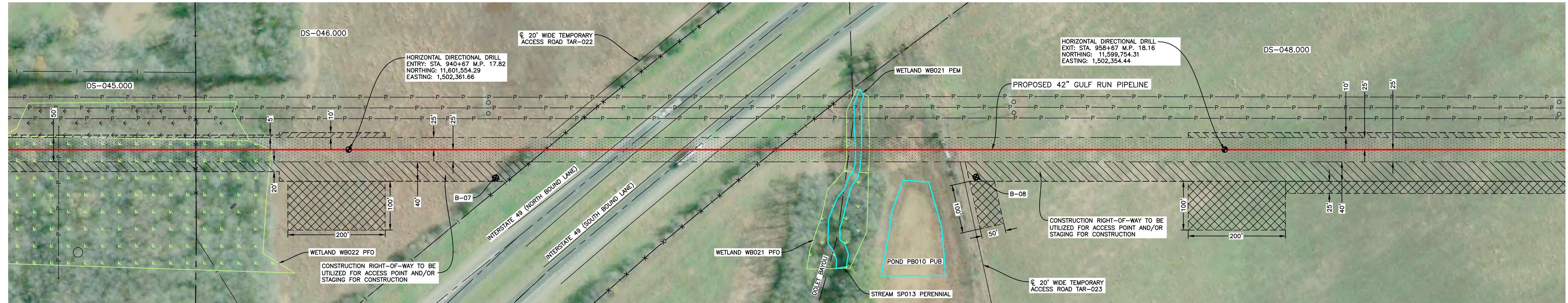
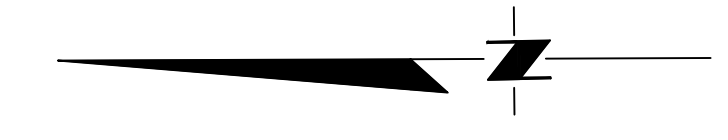
ENABLE **Enable Gulf Run Transmission, LLC**
OKLAHOMA CITY, OK

GULF RUN PIPELINE
PROPOSED 42" GULF RUN PIPELINE
HDD NO. 3 DOLET BAYOU
STA. NO. 895+19 TO STA. NO. 913+19
DE SOTO PARISH, LOUISIANA

SCALE	CREATED ON	LAST EDIT	DRAWN BY	D I P L	EGRT-GR	016 F B
AS NOTED	07/15/19	01/31/20	JRC-MM	SHT SIZE	JOB NUMBER	DWG AREA

DE SOTO PARISH, LOUISIANA
SECTION 12, T11N, R11W

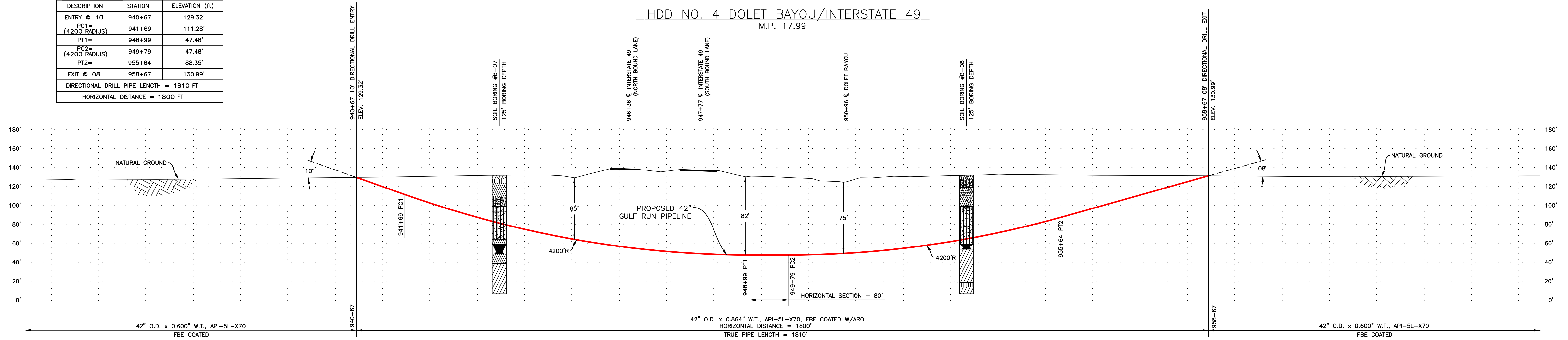
943+55 POWER POLE, 74' LT.
944+72 FENCE, HOG WIRE
944+72 R/W
945+09 TOP BANK
945+30 & BAR DITCH
945+50 TOP BANK
946+04 EDGE OF ROAD
946+36 & INTERSTATE 49 (NORTH BOUND LANE) EDGE OF ROAD
946+63
947+51 EDGE OF ROAD
947+77 & INTERSTATE 49 (SOUTH BOUND LANE)
948+29 EDGE OF ROAD
948+69 TOP BANK
948+84 & BAR DITCH
948+95 TOP BANK
949+44 R/W, FENCE, HOG WIRE
950+80 WETLAND
950+86 & DOLET BAYOU
951+38 WETLAND
954+34 POWER POLE, 76' LT.



DIRECTIONAL DRILL DATA PROPOSED 42" GULF RUN PIPELINE HDD NO. 4 DOLET BAYOU/INTERSTATE 49		
DESCRIPTION	STATION	ELEVATION (ft)
ENTRY @ 10'	940+67	129.32'
PC1 = (4200' RADIUS)	941+69	111.28'
PT1 =	948+99	47.48'
PC2 = (4200' RADIUS)	949+79	47.48'
PT2 =	955+64	88.35'
EXIT @ 08'	958+67	130.99'
DIRECTIONAL DRILL PIPE LENGTH = 1810 FT		
HORIZONTAL DISTANCE = 1800 FT		

PLAN
SCALE: 1" = 100'

HDD NO. 4 DOLET BAYOU/INTERSTATE 49
M.P. 17.99



PROFILE
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 50'

NOTES:

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BORE LEGEND

	FAT CLAY WITH SAND (CH)		SILTY SAND (SM)
	SILT (ML)		LIGNITE BLACK
	LEAN CLAY (CL)		FAT CLAY (CH)
	SANDY SILT (SM)		CLAYEY SAND (SC)
	SILT WITH SAND (SM)		LEAN CLAY WITH SAND (CL)

	PROPOSED PERMANENT EASEMENT
	PROPOSED TEMPORARY WORKSPACE
	EXTRA TEMPORARY WORKSPACE
	WETLAND

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M M
MOTT MACDONALD

101 CROSLY STREET
WEST MONROE, LA 71291
318.529.0095
LOUISIANA ENGINEERING
FIRM NO. EF-0003450

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A		11/15/19	JRC	ISSUED FOR FERC	JOI	CKF		
					CK.	APP.	CK.	APP.
					MM DRAFT.	DEPT.	EGT PRJ.	MGT. DESIGN ENG.

REVISIONS

ENABLE
OKLAHOMA CITY, OK

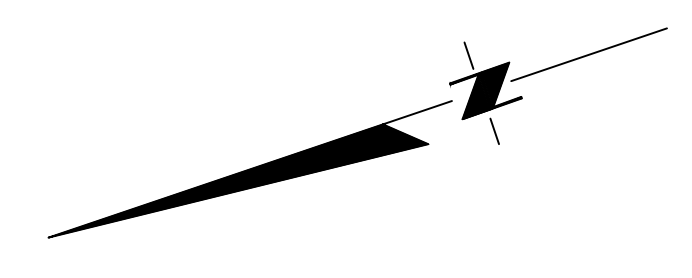
Enable Gulf Run Transmission, LLC
OKLAHOMA CITY, OK

GULF RUN

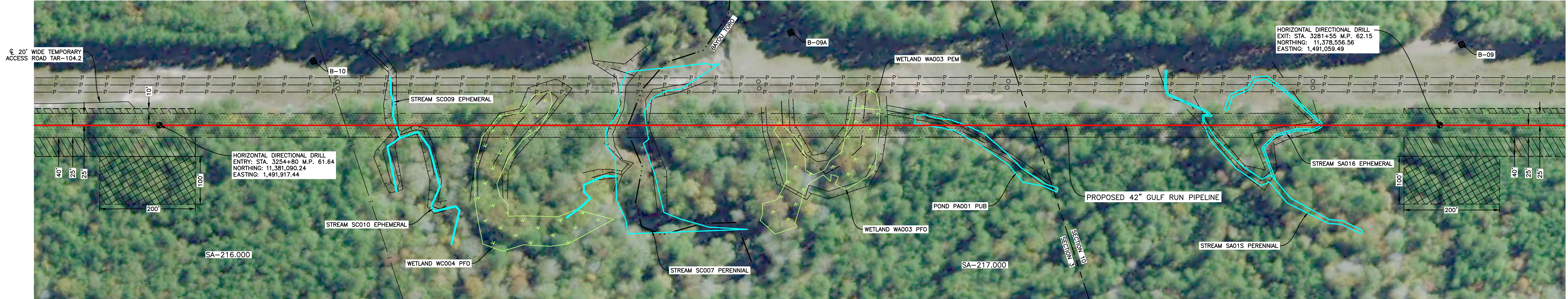
**PROPOSED 42" GULF RUN PIPELINE
HDD NO. 4 DOLET BAYOU/INTERSTATE 49
STA. NO. 940+67 TO STA. NO. 958+67**
DE SOTO PARISH, LOUISIANA

SCALE	CREATED ON	LAST EDIT	DRAWN BY	DWG. NUMBER	SHEET NUMBER	REF. SHEET
AS NOTED	07/15/19	01/31/20	JRC-MM	EGRT-GR	017	F B

SABINE PARISH, LOUISIANA
SECTIONS 3 & 10, T4N - R11W

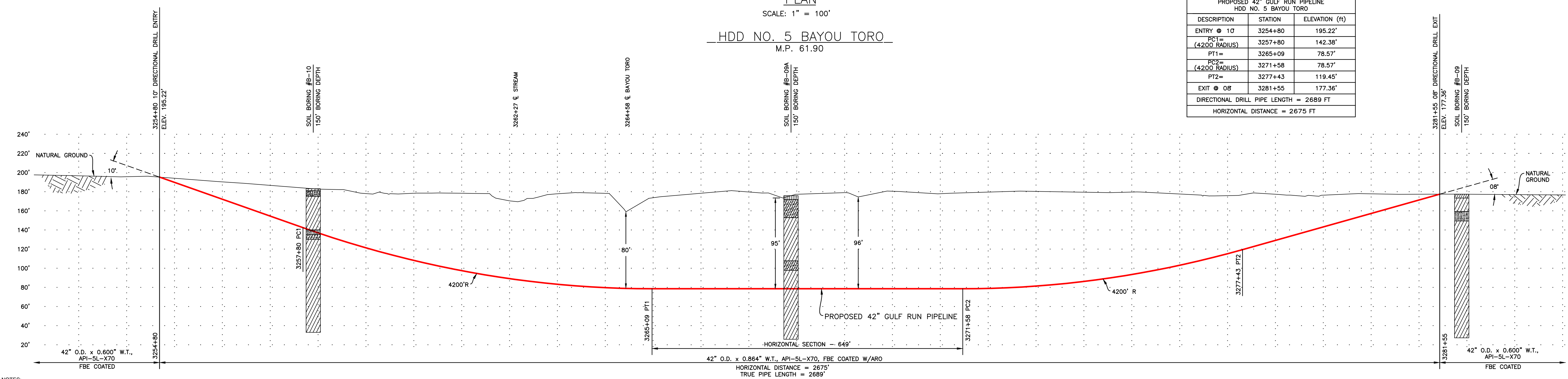


- 3258+53 POWER POLE 77' LT.
- 3259+55 TOP BANK
- 3259+72 CREEK
- 3259+73 ENTER STREAM
- 3259+75 EXIT STREAM
- 3260+11 TOP BANK
- 3260+13 TOP BANK
- 3260+15 TOP BANK
- 3261+70 TOP BANK
- 3261+73 ENTER WETLAND
- 3261+82 WATERS EDGE
- 3262+27 C. STREAM
- 3262+28 C. STREAM
- 3262+29 C. STREAM
- 3262+76 EXIT WETLAND
- 3262+81 TOP BANK
- 3264+18 ENTER STREAM
- 3264+19 TOP BANK
- 3264+34 WATERS EDGE
- 3264+58 BAYOU TORO
- 3264+59 EXIT STREAM
- 3264+86 WATERS EDGE
- 3265+02 TOP BANK
- 3267+33 POWER POLE 77' LT.
- 3267+39 TOP BANK
- 3267+40 ENTER WETLAND
- 3267+42 C. SLOUGH, EXIT WETLAND
- 3267+46 WATERS EDGE
- 3268+08 TOP BANK
- 3269+11 TOP BANK
- 3269+18 ENTER WETLAND
- 3269+29 WATERS EDGE
- 3270+01 TOP BANK
- 3270+01 TOP BANK
- 3270+81 ENTER POND
- 3271+14 WATERS EDGE
- 3271+32 C. DITCH
- 3271+64 EXIT POND
- 3272+51 POWER POLE 79' LT.
- 3273+03 SECTION LINE
- 3276+57 TOP BANK
- 3276+62 ENTER STREAM
- 3276+66 C. DITCH
- 3276+85 TOP BANK
- 3276+74 TOP BANK
- 3278+42 TOP BANK
- 3278+89 POWER POLE 78' LT.
- 3279+04 ENTER STREAM
- 3279+05 TOP BANK
- 3279+08 EXIT STREAM



PLAN
SCALE: 1" = 100'
HDD NO. 5 BAYOU TORO
M.P. 61.90

DIRECTIONAL DRILL DATA PROPOSED 42" GULF RUN PIPELINE HDD NO. 5 BAYOU TORO		
DESCRIPTION	STATION	ELEVATION (ft)
ENTRY @ 10'	3254+80	195.22'
PC1 = (4200' RADIUS)	3257+80	142.38'
PT1 =	3265+09	78.57'
PC2 = (4200' RADIUS)	3271+58	78.57'
PT2 =	3277+43	119.45'
EXIT @ 08'	3281+55	177.36'
DIRECTIONAL DRILL PIPE LENGTH = 2689 FT		
HORIZONTAL DISTANCE = 2675 FT		



PROFILE
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 50'

BORE LEGEND

	LEAN CLAY WITH SAND (CL)		CLAYEY SAND (SC)
	FAT CLAY (CH)		SANDY SILT (SM)
	SILTY SAND (SM)		SANDY LEAN CLAY (CL)
	SILT (ML)		

- NOTES:
- VERTICAL DATUM: NAVD 88. HORIZONTAL DATUM: NAD83 UTM15. NORTH ZONE, US FOOT.
 - CONTRACTOR TO DETERMINE PILOT BORE AND FINAL REAMED DIAMETER TO ACCOMMODATE THEIR MEANS AND METHODS.
 - ABSOLUTE MINIMUM ALLOWABLE DRILLING RADIUS SHALL BE 2,800 FEET BASED ON A 3 JOINT AVERAGE.
 - THE ENTRY POINT SHALL BE AS SHOWN ON THE DRAWINGS. THE EXIT POINT SHALL BE NO MORE THAN 0 FEET SHORT OR 20 FEET LONG RELATIVE TO THE EXIT POINT SHOWN ON THE DRAWINGS.
 - THE PILOT BORE SHALL DEVIATE NO MORE THAN 3 FEET HORIZONTALLY OFF THE ALIGNMENT AS SHOWN ON THE DRAWINGS.
 - THE PILOT BORE SHALL NOT EXCEED MORE THAN 2 FEET ABOVE AND 10 FEET BELOW THE ELEVATION SHOWN ON THE DRAWINGS.
 - HDD OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH ALL PERMIT REQUIREMENTS AND COMPANY SPECIFICATIONS.
 - THROUGHOUT THE PILOT BORE DRILLING FLUID PRESSURES SHALL BE MEASURED AT ALL TIMES AND AT A POINT AS CLOSE AS POSSIBLE BEHIND THE DRILL BIT.
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- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY WORKSPACE
- EXTRA TEMPORARY WORKSPACE
- WETLAND

1.) EXCAVATE WITH CAUTION!! EXACT LOCATIONS OF EXISTING UNDERGROUND PIPES AND UTILITIES ARE UNKNOWN.

2.) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

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FIRM NO. EF-0003450

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				MM DRAFT.	DEPT.	EGT PRJ.	MGT. DESIGN ENG.

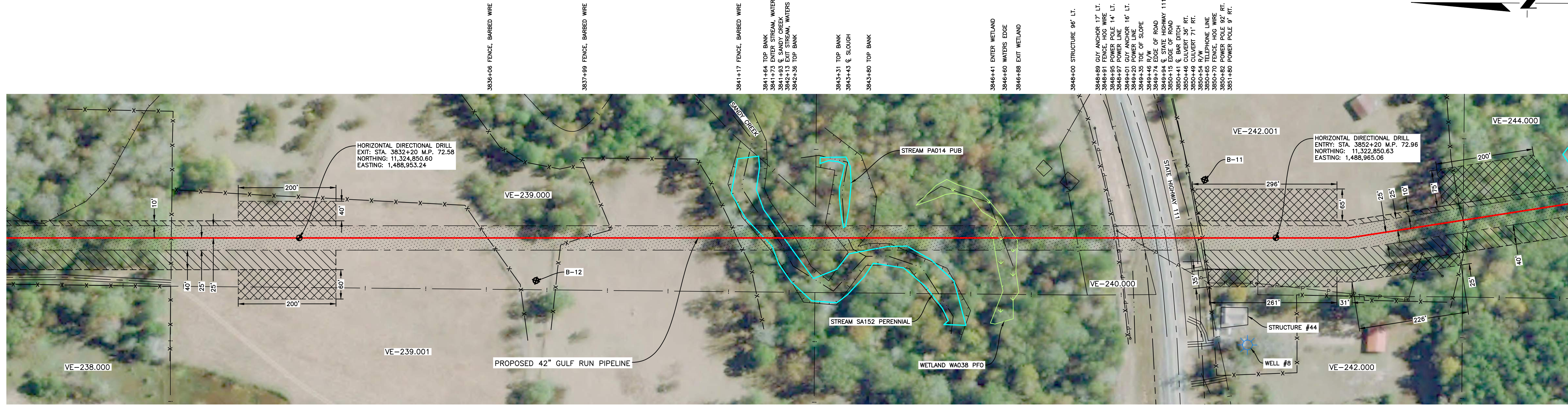
REVISIONS

ENABLE GULF RUN TRANSMISSION, LLC
OKLAHOMA CITY, OK

GULF RUN PIPELINE
PROPOSED 42" GULF RUN PIPELINE
HDD NO. 5 BAYOU TORO
STA. NO. 3254+80 TO STA. NO. 3281+55
SABINE PARISH, LOUISIANA

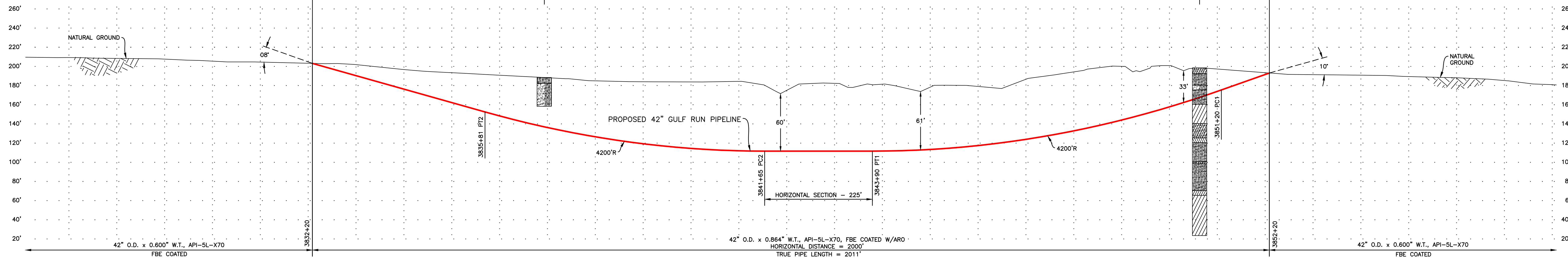
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AS NOTED	07/15/19	01/30/20	JRC-MM	055 F B		

VERNON PARISH, LOUISIANA
SECTION 34, T3N - R11W



DIRECTIONAL DRILL DATA		
PROPOSED 42" GULF RUN PIPELINE		
HDD NO. 6 SANDY CREEK/STATE HIGHWAY 111		
DESCRIPTION	STATION	ELEVATION (ft)
ENTRY @ 10"	3852+20	193.14'
PC1 = (4200' RADIUS)	3851+20	175.45'
PT1 =	3843+90	111.64'
PC2 = (4200' RADIUS)	3841+65	111.64'
PT2 =	3835+81	152.51'
EXIT @ 08"	3832+20	203.20'
DIRECTIONAL DRILL PIPE LENGTH = 2011 FT		
HORIZONTAL DISTANCE = 2000 FT		

PLAN
SCALE: 1" = 100'
HDD NO. 6 SANDY CREEK/STATE HIGHWAY 111
M.P. 72.77



PROFILE
HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 50'

- NOTES:
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BORE LEGEND	
	LEAN CLAY WITH SAND (CL)
	LEAN CLAY (LC)
	CLAYEY SAND (SC)
	FAT CLAY (CH)
	SILTY SAND (SM)
	POORLY GRADED SAND WITH SILT (SP-SM)

- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY WORKSPACE
- EXTRA TEMPORARY WORKSPACE
- WETLAND

1.) EXCAVATE WITH CAUTION!!! EXACT LOCATIONS OF EXISTING UNDERGROUND PIPES AND UTILITIES ARE UNKNOWN.
2.) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

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FIRM NO. EF-0003450

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					CK.	APP.	CK.	APP.
					MM DRAFT.	DEPT.	EGT PRJ.	MGT. DESIGN ENG.

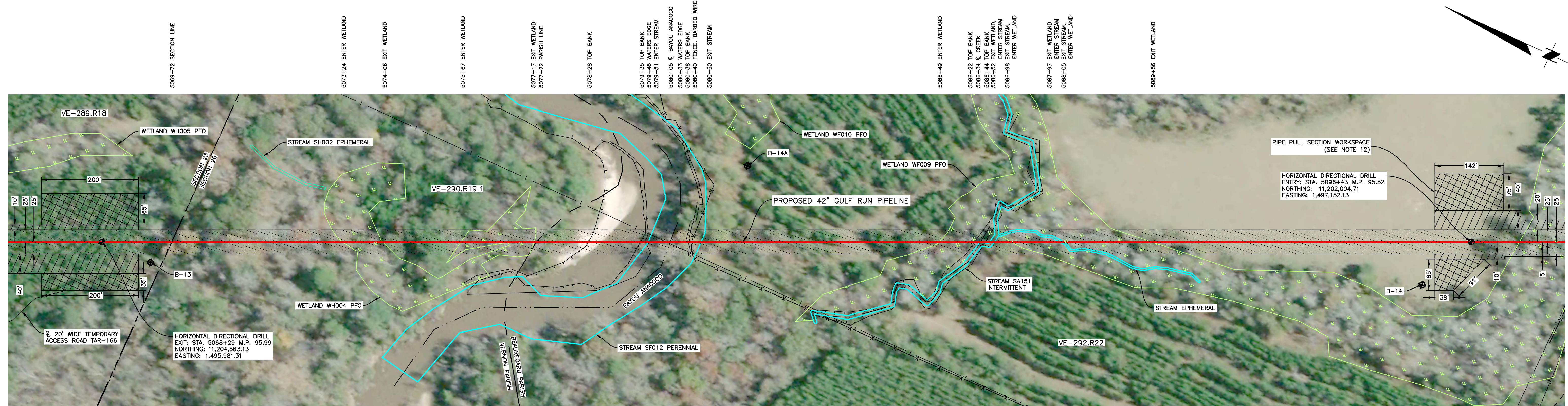
ENABLE **Enable Gulf Run Transmission, LLC**
OKLAHOMA CITY, OK

GULF RUN

PROPOSED 42" GULF RUN PIPELINE
HDD NO. 6 SANDY CREEK/STATE HIGHWAY 111
STA. NO. 3832+20 TO STA. NO. 3852+20
VERNON PARISH, LOUISIANA

SCALE	CREATED ON	LAST EDIT	DRAWN BY	D PL	EGRT-GR	065 F B
AS NOTED	07/15/19	01/30/20	JRC-MM	SHT SIZE	JOB TYPE	JOB NUMBER
				DWG AREA	SHEET AREA	REF SHIT

VERNON & BEAUREGARD PARISHES, LOUISIANA
SECTIONS 23 & 26, T2S - R11W

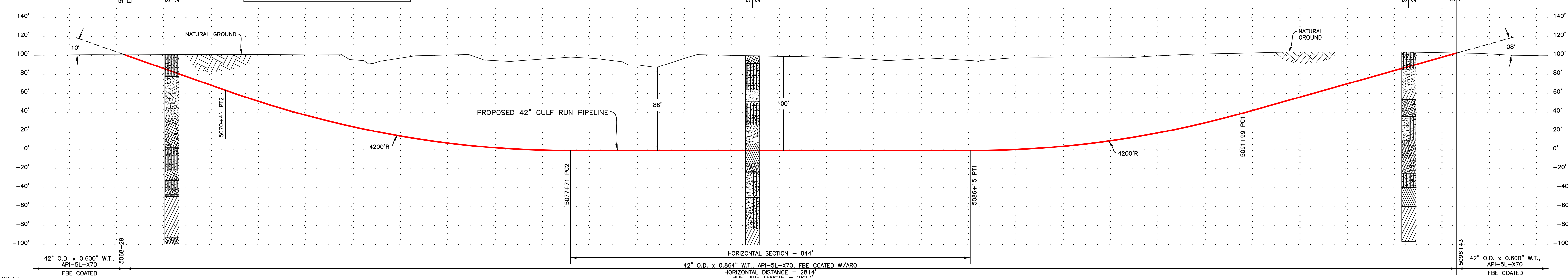


DIRECTIONAL DRILL DATA
PROPOSED 42" GULF RUN PIPELINE
HDD NO. 7 BAYOU ANACOCO

DESCRIPTION	STATION	ELEVATION (ft)
ENTRY @ 08'	5096+43	102.49'
PC1 = (4200 RADIUS)	5091+99	40.19'
PT1 =	5086+15	-0.68'
PC2 = (4200 RADIUS)	5077+71	-0.68'
PT2 =	5070+41	63.12'
EXIT @ 10'	5068+29	100.57'

DIRECTIONAL DRILL PIPE LENGTH = 2827 FT
HORIZONTAL DISTANCE = 2814 FT

PLAN
SCALE: 1" = 100'
HDD NO. 7 BAYOU ANACOCO
M.P. 96.26



PROFILE

HORIZONTAL SCALE: 1" = 100'
VERTICAL SCALE: 1" = 50'

BORE LEGEND

LEAN CLAY (CL)	SANDY LEAN CLAY (CL)
FAT CLAY (CH)	POORLY GRADED SAND WITH SILT (SP-SM)
SILTY SAND (SM)	POORLY GRADED SAND (SP)
FAT CLAY WITH SAND (CH)	POORLY GRADED SAND WITH GRAVEL (SP)

- NOTES:
- VERTICAL DATUM- NAVD 88. HORIZONTAL DATUM- NAD83 UTM15, NORTH ZONE, US FOOT.
 - CONTRACTOR TO DETERMINE PILOT BORE AND FINAL REAMED DIAMETER TO ACCOMMODATE THEIR MEANS AND METHODS.
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 - CONTRACTOR SHALL MOBILIZE DRILL RIG AT THE DESIGN EXIT POINT FOR PIPE PULL SECTION INSTALLATION AFTER COMPLETING PILOT HOLE AND REMAINING OPERATIONS FROM THE DESIGNED ENTRY POINT.

- EXCAVATE WITH CAUTION!! EXACT LOCATIONS OF EXISTING UNDERGROUND PIPES AND UTILITIES ARE UNKNOWN.
- CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

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FIRM NO. E7-0003450

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A	11/15/19	JRC	ISSUED FOR FERC	JOI	CKF				
				MM DRAFT.	DEPT.	EGT PRJ.	MGT.	DESIGN ENG.	

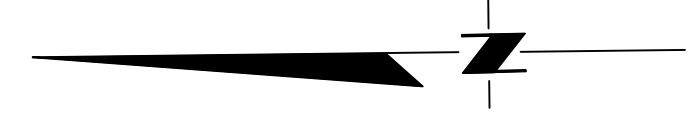
REVISIONS

ENABLE GULF RUN TRANSMISSION, LLC
OKLAHOMA CITY, OK

GULF RUN PIPELINE
PROPOSED 42" GULF RUN PIPELINE
HDD NO. 7 BAYOU ANACOCO
STA. NO. 5068+29 TO STA. NO. 5096+43
VERNON & BEAUREGARD PARISHES, LOUISIANA

SCALE	CREATED ON	LAST EDIT	DRAWN BY	DATE	JOB NUMBER	DWG NUMBER	SHEET AREA	REF SHEET
AS NOTED	07/15/19	01/30/20	JRC-MM			086 F B		

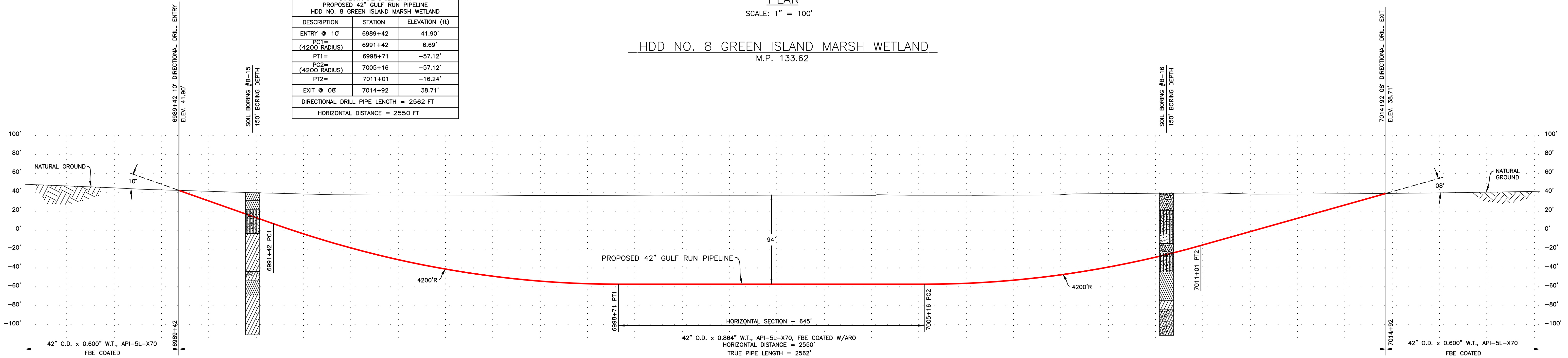
CALCASIEU PARISH, LOUISIANA
SECTIONS 8 & 9, T8S - R12W



DIRECTIONAL DRILL DATA
PROPOSED 42" GULF RUN PIPELINE
HDD NO. 8 GREEN ISLAND MARSH WETLAND

DESCRIPTION	STATION	ELEVATION (H)
ENTRY @ 10"	6989+42	41.90'
PC1 = (4200' RADIUS)	6991+42	6.69'
PT1 =	6998+71	-57.12'
PC2 = (4200' RADIUS)	7005+16	-57.12'
PT2 =	7011+01	-16.24'
EXIT @ 08"	7014+92	38.71'
DIRECTIONAL DRILL PIPE LENGTH = 2562 FT		
HORIZONTAL DISTANCE = 2550 FT		

PLAN
SCALE: 1" = 100'
HDD NO. 8 GREEN ISLAND MARSH WETLAND
M.P. 133.62



- NOTES:
- VERTICAL DATUM: NAVD 88, HORIZONTAL DATUM: NAD83 UTM15, NORTH ZONE, US FOOT.
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BORE LEGEND

LEAN CLAY WITH SAND (CL)	SILTY SAND (SM)
LEAN CLAY (CL)	SANDY LEAN CLAY (CL)
CLAYEY SAND (SC)	POORLY GRADED SAND WITH SILT (SP-SM)
FAT CLAY (CH)	

- PROPOSED PERMANENT EASEMENT
- PROPOSED TEMPORARY WORKSPACE
- EXTRA TEMPORARY WORKSPACE
- WETLAND

- EXCAVATE WITH CAUTION!!! EXACT LOCATIONS OF EXISTING UNDERGROUND PIPES AND UTILITIES ARE UNKNOWN.
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FIRM NO. EF-0003450

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				CK.	APP.	CK.	APP.	CK.	APP.
				MM DRAFT.	DEPT.	EGT PRJ.	MGT.	DESIGN	ENG.

REVISIONS

ENABLE
OKLAHOMA CITY, OK

Enable Gulf Run Transmission, LLC
OKLAHOMA CITY, OK

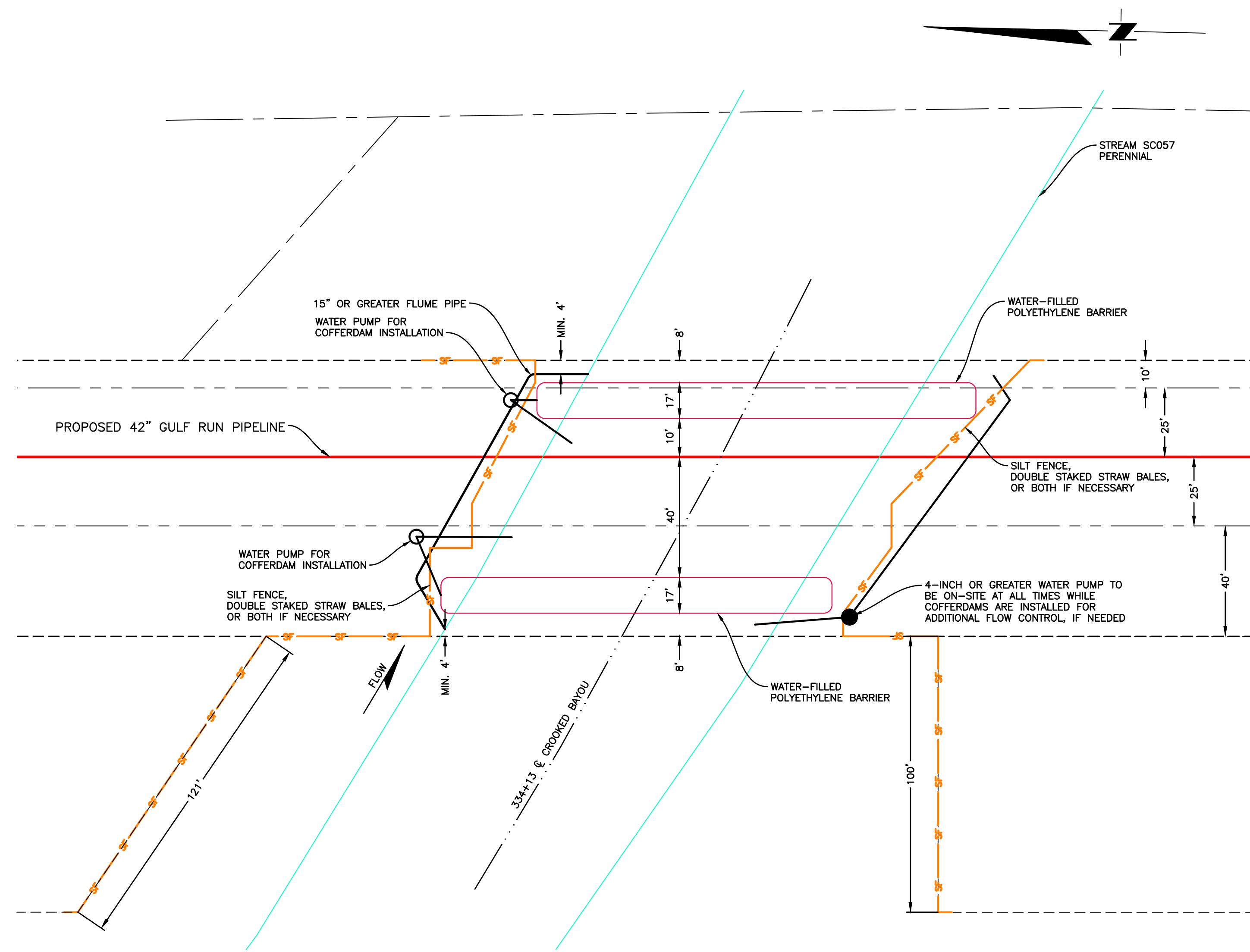
GULF RUN PIPELINE
HDD NO. 8 GREEN ISLAND MARSH WETLAND
STA. NO. 6989+42 TO STA. NO. 7014+92
CALCASIEU PARISH, LOUISIANA

SCALE	CREATED ON	LAST EDIT	DRAWN BY	JOB NUMBER	DWG AREA	SHEET AREA	REF SHEET
AS NOTED	07/15/19	01/30/20	JRC-MM	119 F B			

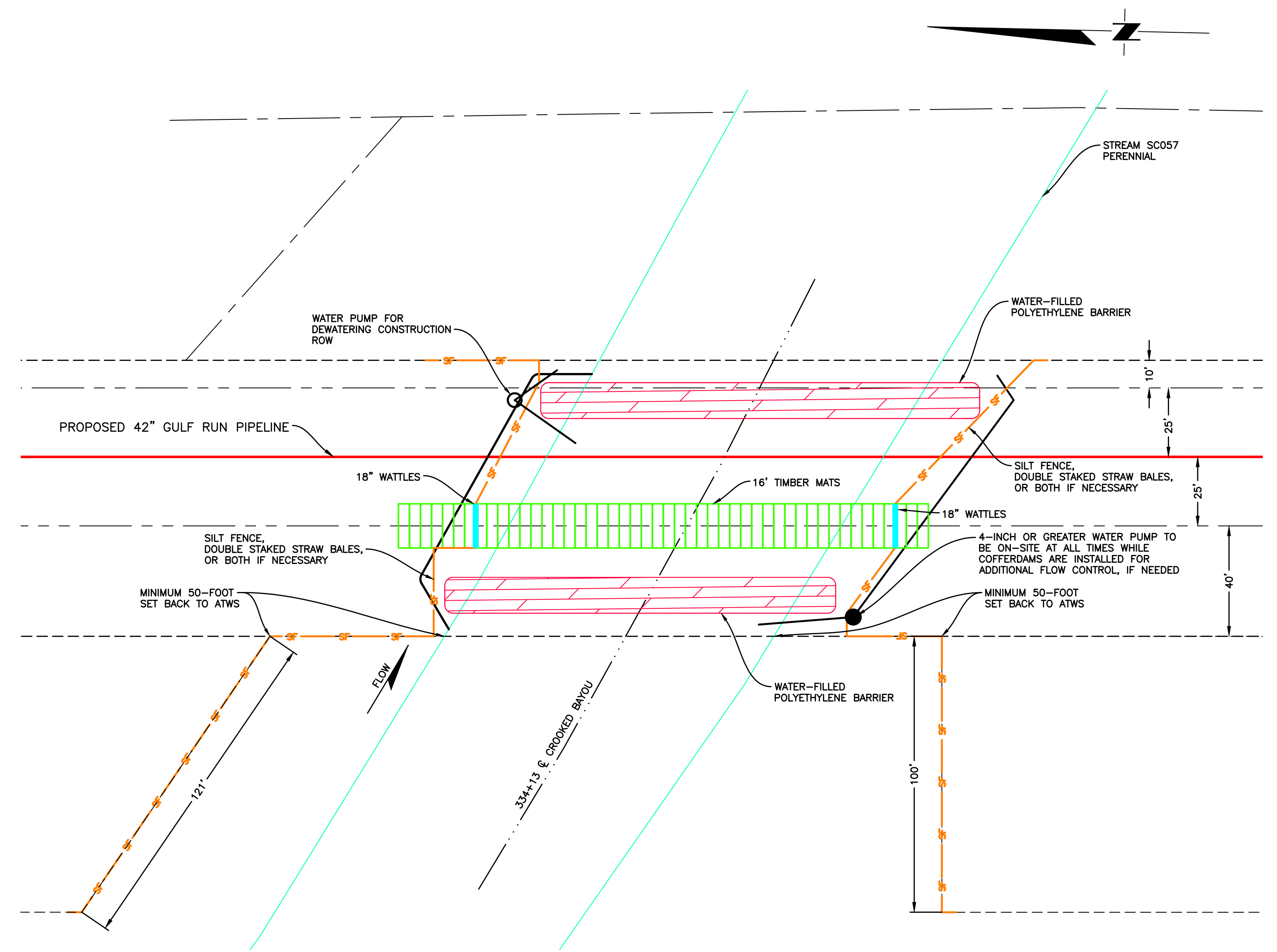
Individual Permit Application
Enable Gulf Run Transmission, LLC
Gulf Run Pipeline

Crooked Bayou Crossing Plan

RED RIVER PARISH, LOUISIANA
SECTION 16, T13N, R11W



COFFERDAM INSTALLATION PLAN
(DAY 1 AND 2)
SCALE: 1" = 30'



WATERBODY CONSTRUCTION ACCESS
(DAY 2 AND 3)
SCALE: 1" = 30'

NOTES:

1. FLUME PIPE SIZING ESTABLISHED BY INSTALLING ONE SIZE GREATER THAN EXISTING DOWNSTREAM CULVERT OF 12 INCHES.
2. NO FUELING WITHIN 100 FEET OF WATERBODY UNLESS NECESSARY FOR WATER PUMPING ACTIVITIES. IN THE CASE FUELING IS REQUIRED WITHIN 100 FEET OF WATERBODY, EQUIPMENT SHALL CONTAIN SECONDARY CONTAINMENT.
3. EQUIPMENT OR HAZARDOUS MATERIALS SHALL NOT BE STORED/STAGED WITHIN 100 FEET OF WATERBODY.
4. FLUME PIPE SHALL BE INSTALLED TO MAINTAIN FLOW AS DEPICTED ON THIS DRAWING.
5. FLOWLINE OF FLUME PIPE SHALL BE INSTALLED AT A MAXIMUM ELEVATION OF 133.7 FEET.
6. FLUME PIPE SHALL BE 15-INCH OR GREATER IN DIAMETER.
7. WATER PUMPS SHALL CONTAIN SECONDARY CONTAINMENT WHEN WITHIN 100 FEET OF WATER BODY.
8. ALL ENVIRONMENTAL CONTROL DEVICES SHALL BE INSTALLED AS DEPICTED ON THIS DRAWING AND MONITORED.
9. WATER PUMP(S) SHALL BE ON-SITE WHEN DAMS ARE INSTALLED.
10. PIPE SHALL BE INSTALLED AT A MINIMUM OF 5 FEET UNDER BED OF WATERBODY.
11. 12,500 POUND WEIGHTS SHALL BE INSTALLED AT A CENTER-TO-CENTER SPACING OF 25 FEET.
12. DITCH SPOIL STORAGE SHALL BE A MINIMUM OF 10 FEET FROM WATERBODY.

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				DRAFT.	DEPT.	MM	DEPT.	DESIGN	ENG.
0	01/28/20	MM	ISSUED FOR REVIEW						

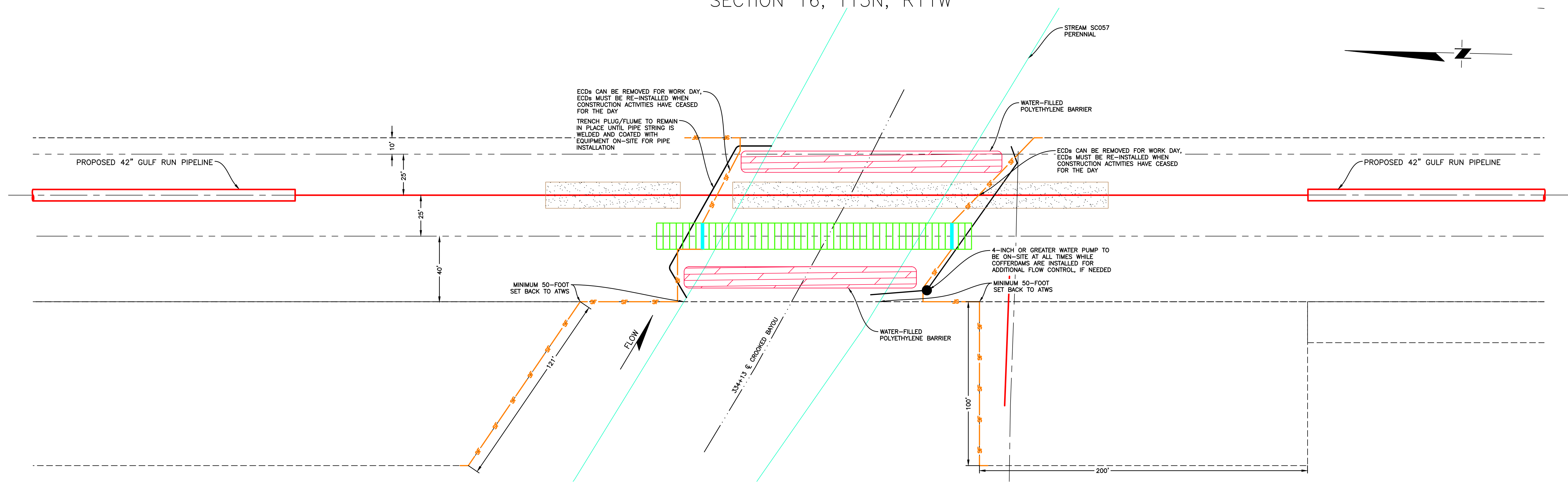
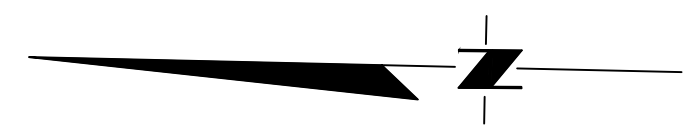
REVISIONS

ENABLE **Enable Gulf Run Transmission, LLC** **GULFRUN**
OKLAHOMA CITY, OK

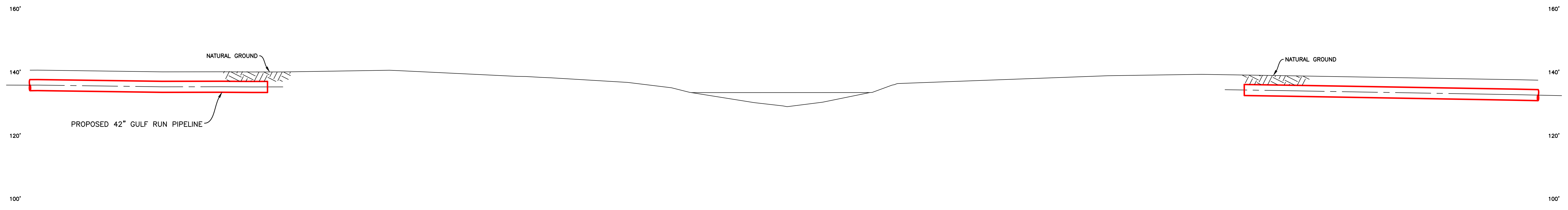
GULF RUN PIPELINE
PROPOSED 42" GULF RUN PIPELINE
SITE SPECIFIC NO. 1 CROOKED BAYOU

RED RIVER PARISH, LOUISIANA
SCALE: AS NOTED
CREATED ON: 01/08/20
LAST EDIT: 01/28/20
DRAWN BY: D PL
JOB NUMBER: EGRT-GR
JOB AREA: 006 F 0
DWG AREA: SHEET REF: 0

RED RIVER PARISH, LOUISIANA
SECTION 16, T13N, R11W



PLAN
SCALE: 1" = 30'



PIPE INSTALLATION PREPARATION
(DAY 4)

PROFILE
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 20'

- NOTES:
1. FLUME PIPE SIZING ESTABLISHED BY INSTALLING ONE SIZE GREATER THAN EXISTING DOWNSTREAM CULVERT OF 12 INCHES.
 2. NO FUELING WITHIN 100 FEET OF WATERBODY UNLESS NECESSARY FOR WATER PUMPING ACTIVITIES. IN THE CASE FUELING IS REQUIRED WITHIN 100 FEET OF WATERBODY, EQUIPMENT SHALL CONTAIN SECONDARY CONTAINMENT.
 3. EQUIPMENT OR HAZARDOUS MATERIALS SHALL NOT BE STORED/STAGED WITHIN 100 FEET OF WATERBODY.
 4. FLUME PIPE SHALL BE INSTALLED TO MAINTAIN FLOW AS DEPICTED ON THIS DRAWING.
 5. FLOWLINE OF FLUME PIPE SHALL BE INSTALLED AT A MAXIMUM ELEVATION OF 133.7 FEET.
 6. FLUME PIPE SHALL BE 15-INCH OR GREATER IN DIAMETER.
 7. WATER PUMPS SHALL CONTAIN SECONDARY CONTAINMENT WHEN WITHIN 100 FEET OF WATER BODY.
 8. ALL ENVIRONMENTAL CONTROL DEVICES SHALL BE INSTALLED AS DEPICTED ON THIS DRAWING AND MONITORED.
 9. WATER PUMP(S) SHALL BE ON-SITE WHEN DAMS ARE INSTALLED.
 10. PIPE SHALL BE INSTALLED AT A MINIMUM OF 5 FEET UNDER BED OF WATERBODY.
 11. 12,500 POUND WEIGHTS SHALL BE INSTALLED AT A CENTER-TO-CENTER SPACING OF 25 FEET.
 12. DITCH SPOIL STORAGE SHALL BE A MINIMUM OF 10 FEET FROM WATERBODY.

1.) EXCAVATE WITH CAUTION!!! EXACT LOCATIONS OF EXISTING UNDERGROUND PIPES AND UTILITIES ARE UNKNOWN.
2.) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

M M
MOTT MACDONALD
101 CROSLY STREET
WEST MONROE, LA 71291
T 318 329 0095
LOUISIANA ENGINEERING
FIRM NO. EF-0003450

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PROPRIETARY
This drawing is confidential and is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential and exempt from disclosure under applicable law.

REV LEVEL	DATE	BY	DESCRIPTION	CK.	APP.	CK.	APP.	CK.	APP.
				DRAFT.	DEPT.	MM	DEPT.	DESIGN	ENG.
0	01/28/20	JRC	ISSUED FOR REVIEW						

REVISIONS

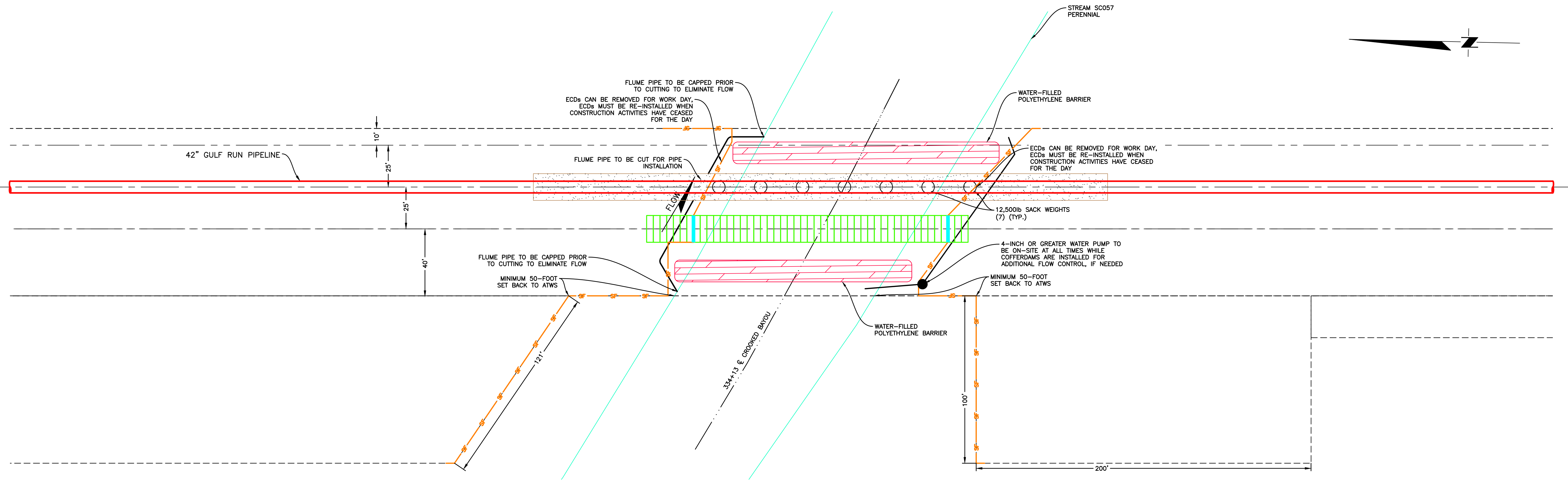
ENABLE **Enable Gulf Run Transmission, LLC** **GULFRUN**
OKLAHOMA CITY, OK

GULF RUN PIPELINE
PROPOSED 42" GULF RUN PIPELINE
SITE SPECIFIC NO. 1 CROOKED BAYOU

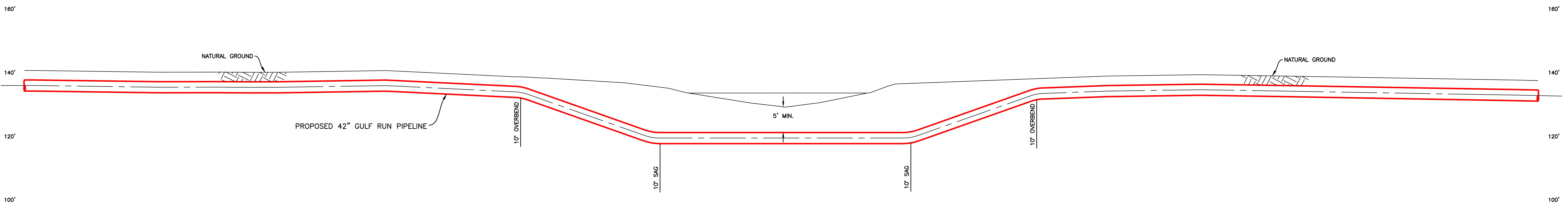
RED RIVER PARISH, LOUISIANA

SCALE	CREATED ON	LAST EDIT	DRAWN BY	D PL	EGRT-GR	006	G 0
AS NOTED	12/12/19	01/28/20	JRC-MM	SHT SIZE	JOB TYPE	JOB NUMBER	DWG AREA

RED RIVER PARISH, LOUISIANA
SECTION 16, T13N, R11W



PLAN
SCALE: 1" = 30'



PIPE INSTALLATION
(DAY 5)

PROFILE
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 20'

- NOTES:
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- 2.) CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.

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LOUISIANA ENGINEERING
FIRM NO. EF-0003450

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REV	LEVEL	DATE	BY	DESCRIPTION	CK.	APP.	CK.	APP.	CK.	APP.
					DRAFT.	DEPT.	MM	DEPT.	DESIGN	ENG.
0		01/28/20	JRC	ISSUED FOR REVIEW			JOI		CKF	

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ENABLE Enable Gulf Run Transmission, LLC
OKLAHOMA CITY, OK

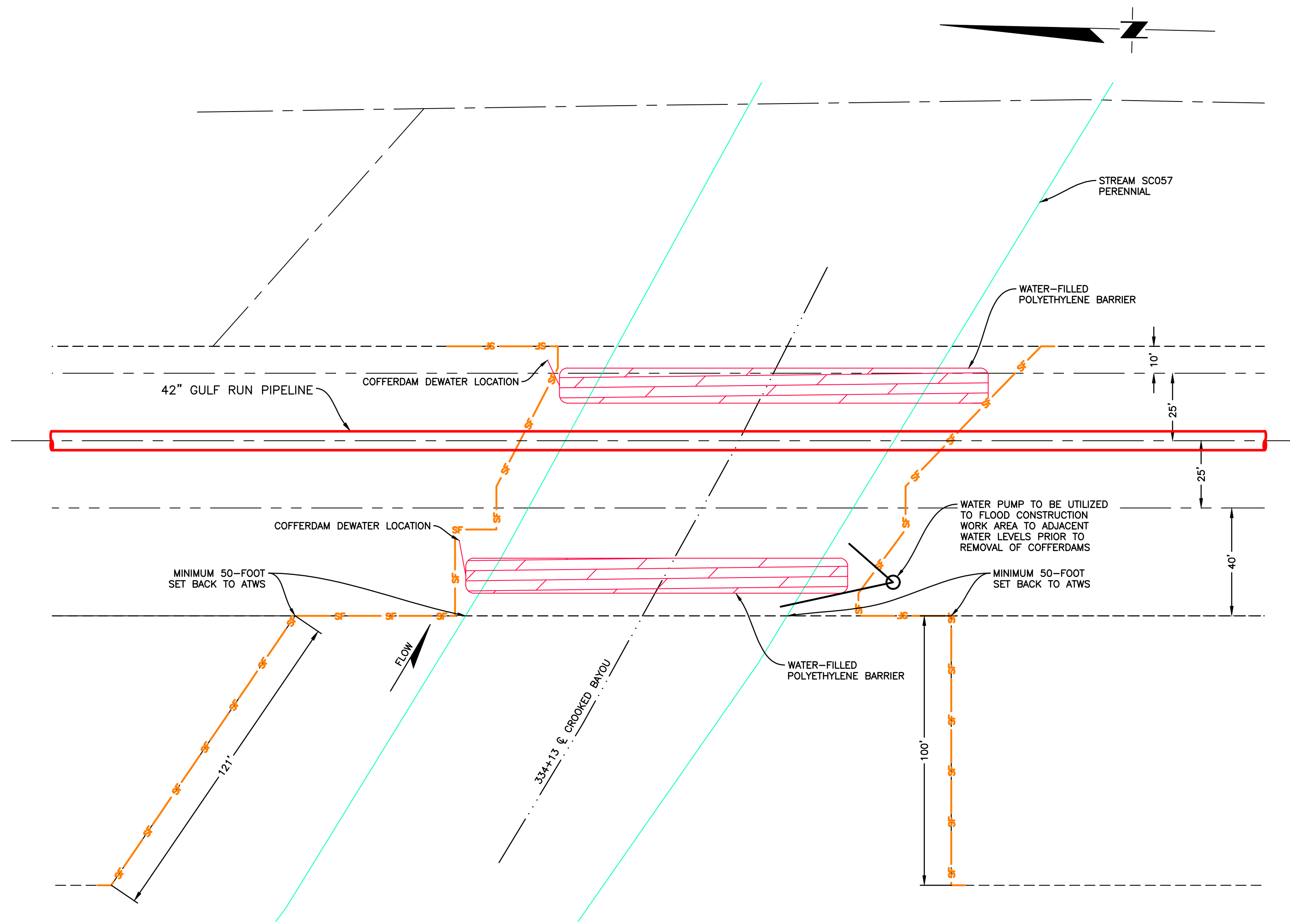
GULF RUN

GULF RUN PIPELINE
PROPOSED 42" GULF RUN PIPELINE
SITE SPECIFIC NO. 1 CROOKED BAYOU

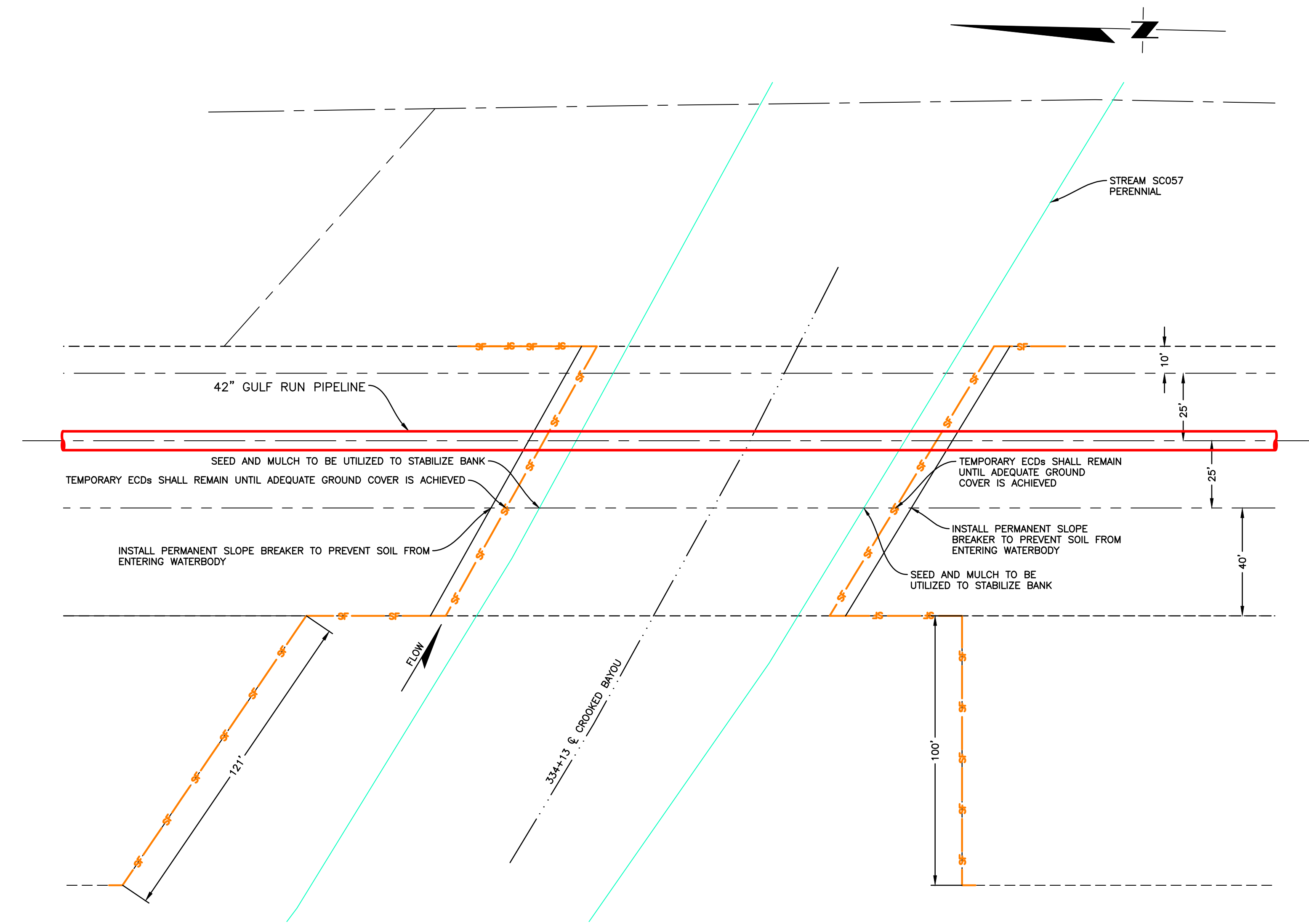
RED RIVER PARISH, LOUISIANA

SCALE	CREATED ON	LAST EDIT	DRAWN BY	D PL	EGRT-GR	006 H 0
AS NOTED	12/12/19	01/28/20	JRC-MM	SHT SIZE	JOB NUMBER	DWG AREA

RED RIVER PARISH, LOUISIANA
SECTION 16, T13N, R11W



COFFERDAM DEWATERING PLAN
(DAY 6)
SCALE: 1" = 30'



WATERBODY RESTORATION PLAN
(DAY 6)
SCALE: 1" = 30'

NOTES:

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				DRAFT.	DEPT.	MM	DEPT.	DESIGN	ENG.
0	01/28/20	MM	ISSUED FOR REVIEW						

REVISIONS

ENABLE **Enable Gulf Run Transmission, LLC** **GULF RUN PARTNERS**
OKLAHOMA CITY, OK

GULF RUN PIPELINE
PROPOSED 42" GULF RUN PIPELINE
SITE SPECIFIC NO. 1 CROOKED BAYOU

SCALE	CREATED ON	LAST EDIT	DRAWN BY	D	PL	EGRT-GR	006	1	0
AS NOTED	01/08/20	01/28/20	MM	SHT	JOB	JOB	DWG	SHEET	REF
				SIZE	TYPE	NUMBER	AREA	AREA	SHT