CITY OF ORANGE BEACH

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BLVD
WIDENING, ROUNDABOUT, ACCESS MANAGEMENT AND MULTI-USE TRAIL

RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00
STATE EXPENDITURE PLAN #22
CANAL ROAD IMPROVEMENTS E OF SR-161

&

CITY PROJECT
ACCESS IMPROVEMENTS AND MULTI-USE TRAIL CONNECTIONS
FROM CALLAWAY DR TO WILSON BLVD

MARCH 2022
ISSUED FOR BID

VICINITY MAP

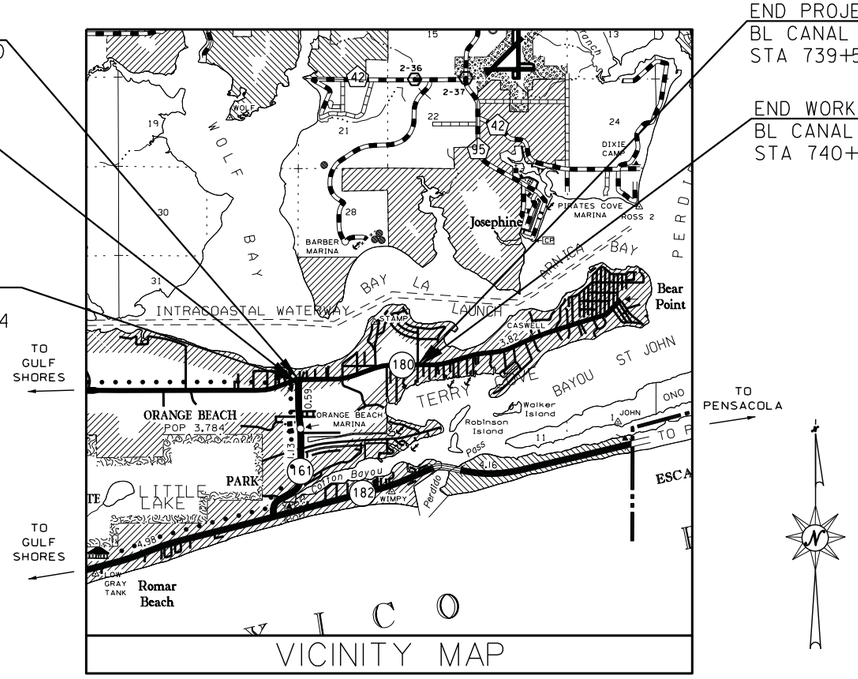
BEGIN PROJECT
BL CANAL ROAD
STA 667+54.83

BEGIN WORK
BL CANAL RD (SR-180)
M.P. 28.32
STA 665+00.00

END WORK
BL SR-161
M.P. 1.70
STA 88+20.44

END PROJECT
BL CANAL ROAD
STA 739+50.00

END WORK
BL CANAL ROAD
STA 740+00.00



INDEX TO SHEETS

SHEET NO.	SHEET TITLE
1	TITLE SHEET
1-A	INDEX TO PLAN SHEETS
193	LAST SHEET

TOTAL NO. SHEETS = 156

These plans have been prepared to conform to the Alabama Department of Transportation Standard Specifications for Highway Construction, 2018 Edition.

* Design Exceptions - N/A

EXISTING BRIDGES:
N/A

EXISTING BRIDGE CULVERTS:
N/A

EQUATIONS AND EXCEPTIONS:
N/A

Total Stationing of Project	7195.17 FT	
Equations & Exceptions	0.00 FT	
Net Length of Project	7195.17 FT	1.363 MI
Net Length of Bridges	0.00 FT	0.000 MI
Net Length of Roadways	7195.17 FT	1.363 MI

CITY OF ORANGE BEACH

MAYOR TONY KENNON
ANNETTE MITCHELL, PLACE 1
JEFF BOYD, PLACE 2
JERRY JOHNSON, PLACE 3
JEFF SILVERS, PLACE 4
JONI BLALOCK, PLACE 5

SUBMITTED BY:

ALABAMA LICENSED No. 34057 PROFESSIONAL ENGINEER CHARLES WEBER

3-21-2022

CHARLES D. WEBER, P.E. — DATE
AL PROFESSIONAL REGISTRATION NO. 34057

PREPARED BY:

thompson ENGINEERING
THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE F-212
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

SHEET NO. : 1-A

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

INDEX TO SHEETS

DATE : DEC 2021
JOB NO. : 20-1101-0085
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :
thompson ENGINEERING
THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE F-212
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SCALE: --
DRAWN BY: --
CHECKED BY: --
APPROVED BY: --

REVISION NO.	DESCRIPTION	DATE	BY:

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THE FOLLOWING ARE SPECIAL OR STANDARD DRAWINGS CONTAINED IN THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIAL & STANDARD HIGHWAY DRAWINGS BOOK (U.S. CUSTOMARY UNITS OF MEASUREMENTS) DATED 2021 WHICH APPLY TO THIS PROJECT:

INDEX NO. NEW	INDEX NO. OLD	DRAWING NO.		DESCRIPTION
20900	MAILBOX RESET			
20901	1231	MB-209-1	(SHEET 1 OF 3)	DETAILS OF MOUNTING MAILBOXES
20902	1232	MB-209-1	(SHEET 2 OF 3)	DETAILS OF MOUNTING MAILBOXES
20903	1233	MB-209-1	(SHEET 3 OF 3)	DETAILS OF MOUNTING MAILBOXES
45000	PORTLAND CEMENT CONCRETE PAVEMENT			
45013	110	CPJ-450	(SHEET 1 OF 2)	DETAILS OF STANDARD PLAIN AND REINFORCED CEMENT CONCRETE PAVEMENT AND BRIDGE END SLAB JOINTS
45014	110-A	CPJ-450	(SHEET 2 OF 2)	DETAILS OF STANDARD PLAIN AND REINFORCED CEMENT CONCRETE PAVEMENT AND BRIDGE END SLAB JOINTS
45017	127	DSA-450	(SHEET 1 OF 3)	DOWEL SUPPORT ASSEMBLY FOR CONCRETE PAVEMENT FOR 10" and 13" THICK SLABS
45018	128	DSA-450	(SHEET 2 OF 3)	DOWEL SUPPORT ASSEMBLY FOR CONCRETE PAVEMENT FOR 10" and 13" THICK SLABS
45019	129	DSA-450	(SHEET 3 OF 3)	DOWEL SUPPORT ASSEMBLY FOR CONCRETE PAVEMENT FOR 10" and 13" THICK SLABS
45400	CLEANING AND SEALING JOINTS AND CRACKS IN CONCRETE PAVEMENT			
45401	133	JC-454	(SHEET 1 OF 2)	TYPE-I EXISTING CONCRETE PAVEMENT JOINT AND CRACK SEAL
53000	ROADWAY PIPE CULVERTS			
53001	450	HEP-1		HYDRAULICALLY EQUIVALENT ROUND PIPE (STORM SEWER)
53004	447	RPC-530	(SHEET 1 OF 3)	BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS (RCP AND CMP)
53005	448	RPC-530	(SHEET 2 OF 3)	BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS (CMP AND RCP)
53006	449	RPC-530	(SHEET 3 OF 3)	BEDDING AND FILL HEIGHTS FOR ALL ROADWAY PIPE CULVERTS (H.D.P.E. PIPE)
53200	SLOTTED DRAINS			
53201	405	CSP-532		DETAILS OF CORRUGATED SLOTTED DRAIN PIPE 12" - 36" DIAMETER
53204		HDSD-532		DETAILS OF HEAVY DUTY CORRUGATED SLOTTED DRAIN PIPE 12" - 36" DIAMETER FOR USE UNDER TRAFFIC
60200	RIGHT OF WAY AND LAND SURVEY MARKERS			
60201	221	M-602		DETAILS OF MONUMENTS TO BE USED FOR REFERENCE OF CARDINAL POINTS OF HIGHWAY R.O.W. LINE AND LAND SURVEY CORNERS
60204	222	M-602-E		DETAILS OF MONUMENTS TO BE USED FOR PERMANENT EASEMENT POINTS
61800	CONCRETE SIDEWALKS AND DRIVEWAYS			
61801	750	SW-618	(SHEET 1 OF 4)	CURB RAMP DETAIL CALLOUTS, GENERAL NOTES FOR CURB RAMPS & SIDEWALKS, AND DETAILS
61802	751	SW-618	(SHEET 2 OF 4)	CORNER CURB RAMPS
61803	752	SW-618	(SHEET 3 OF 4)	MIDBLOCK CURB RAMPS
61804	753	SW-618	(SHEET 4 OF 4)	SIDEWALKS & CURB RAMPS AT DRIVEWAYS RAILROAD, MEDIAN, & ISLAND CROSSINGS
61900	PIPE CULVERT END TREATMENTS			
61901	408	FE-619	(SHEET 1 OF 2)	DETAILS OF CONCRETE FLARED END SECTION W/ GRATE FOR CONCRETE AND METAL PIPE
61902	409	FE-619	(SHEET 2 OF 2)	DETAILS OF CONCRETE FLARED END SECTION W/ GRATE FOR CONCRETE AND METAL PIPE
61905	411	HW-614-B (PC)	(SHEET 1 OF 2)	PRECAST SLOPE PAVED HEADWALL DETAILS FOR RCP AND CMP ROADWAY PIPE
61906	412	HW-614-B (PC)	(SHEET 2 OF 2)	PRECAST SLOPE PAVED HEADWALL DETAILS FOR RCP AND CMP ROADWAY PIPE
61909	413	HW-614-B	(SHEET 1 OF 2)	SLOPE PAVED HEADWALL DETAILS FOR REINFORCED CONCRETE AND CORRUGATED METAL ROADWAY PIPE
61910	414	HW-614-B	(SHEET 2 OF 2)	SLOPE PAVED HEADWALL DETAILS FOR REINFORCED CONCRETE AND CORRUGATED METAL ROADWAY PIPE
61913	415	HW-614-SP		CONCRETE SLOPE PAVED HEADWALL AND GRATE FOR SIDEDRAIN PIPE
61916	416	HW-614-SP (PC)		PRECAST CONCRETE SLOPE PAVED HEADWALL AND GRATE FOR SIDEDRAIN PIPE, 18" THRU 30", 15 DEGREES MAX SKEW
62000	MINOR STRUCTURE CONCRETE			
62001	401	CC-530		DETAILS OF CONCRETE COLLAR FOR CONNECTING CONCRETE PIPE OF DIFFERENT SHELL THICKNESS OR CONNECTING CONCRETE TO CORRUGATED METAL PIPE
62100	INLETS, JUNCTION BOXES, MANHOLES, AND MISCELLANEOUS DRAINAGE STRUCTURES			
	INLETS			
62107	613	I-621-B	(SHEET 1 OF 2)	SEWER INLET TYPE B (SURFACE DRAIN) FOR USE IN INTERSECTIONS AND OTHER LOCATIONS WHERE A SURFACE TYPE DRAIN IS REQUIRED ON THE TRAVEL WAY
62108	614	I-621-B	(SHEET 2 OF 2)	SEWER INLET TYPE B (SURFACE DRAIN) FOR USE IN INTERSECTIONS AND OTHER LOCATIONS WHERE A SURFACE TYPE DRAIN IS REQUIRED ON THE TRAVEL WAY
62111	618	I-621-C	(SHEET 1 OF 2)	DETAILS OF INLET TYPE C FOR USE IN ROADSIDE DITCHES (18" - 30" PIPE)
62112	619	I-621-C	(SHEET 2 OF 2)	DETAILS OF INLET TYPE C FOR USE IN ROADSIDE DITCHES (18" - 30" PIPE)
62115	623	I-621-D		SPECIAL DROP INLETS TYPE 1, TYPE 2, AND TYPE 3
62118	627	I-621-E	(SHEET 1 OF 3)	DETAILS OF CURB INLET TYPE E FOR USE WITH TYPE N CURB OR COMBINATION CURB & GUTTER TYPE C
62119	628	I-621-E	(SHEET 2 OF 3)	DETAILS OF CAST DUCTILE OR MALLEABLE IRON GRATE SEAT, CAST DUCTILE OR GRAY IRON COVER AND RING, WELDED STEEL GRATE, AND STEEL LADDER BARS FOR CURB INLET TYPE E
62120	629	I-621-E	(SHEET 3 OF 3)	DETAILS OF WELDED FRAME No CIGS-20 & STEEL WELDED CURVED VANE GRATE USED ON CURB INLETS TYPE E
62133	645	I-621-S		REINFORCED CONCRETE STORM SEWER INLET TYPES S3 AND S4
62137	649	I-621-SP	(SHEET 1 OF 3)	PRECAST CONCRETE STORM SEWER INLET TYPES S1 AND S2
62138	649-A	I-621-SP	(SHEET 2 OF 3)	PRECAST CONCRETE STORM SEWER INLET TYPES S1 AND S2
62139	649-B	I-621-SP	(SHEET 3 OF 3)	PRECAST CONCRETE STORM SEWER INLET TYPES S1 AND S2
	JUNCTION BOXES			
62160	501	JB-620-B		DETAILS OF JUNCTION BOX TYPE - 1 FOR 15" -60" PIPE (0 - 10' FILL HEIGHT)
62163	507	JB-621-P	(SHEET 1 OF 2)	DETAILS OF PRECAST ROUND JUNCTION BOX TYPES - 1P & 2P
62164	507-A	JB-621-P	(SHEET 2 OF 2)	DETAILS OF RECTANGULAR PRECAST JUNCTON BOX TYPES - 1P & 2P

INDEX NO. NEW	INDEX NO. OLD	DRAWING NO.		DESCRIPTION
	MANHOLES			
62180	511	MH-621-1		MANHOLE MODIFICATION DETAILS FOR INCREASING OR REDUCING HEIGHTS OF EXISTING MANHOLES
62183	515	MH-621-2	(SHEET 1 OF 5)	DETAILS OF CONCRETE OR BRICK MANHOLE (TYPE L) CONSTRUCTED IN PLACE FOR 6" - 42" PIPE
62184	516	MH-621-2	(SHEET 2 OF 5)	DETAILS FOR PRECAST AND BRICK & CONCRETE (CONSTRUCTED IN PLACE) MANHOLES FOR 6" - 84" PIPE
62185	517	MH-621-2	(SHEET 3 OF 5)	DETAILS OF BRICK MANHOLE (TYPE O) CONSTRUCTED IN PLACE FOR 48" - 84" PIPE
62186	518	MH-621-2	(SHEET 4 OF 5)	DETAILS OF PRECAST CONCRETE MANHOLE (TYPE M) FOR 6" - 72" PIPE
62187	519	MH-621-2	(SHEET 5 OF 5)	DETAILS OF PRECAST CONCRETE MANHOLE (TYPE M) FOR 6" - 72" PIPE
62300	CURB, GUTTER, AND COMBINATION CURB AND GUTTER			
62301	701	623-N SPEC		DETAILS OF MEDIAN OPENING AND SAFETY GORES AT TRAFFIC CHANNEL ISLANDS
62307	703	623-XY		DETAILS OF CONCRETE CURBS AND CONCRETE CURB & GUTTER COMBINATIONS, SLOPING AND VERTICAL TYPES
62310	730	PC (ACG-71)		DETAILS OF CURB & GUTTER MACHINE MOLDS (THIS SHEET FOR USE IN SELECTING MACHINE MADE CONCRETE CURBS OR CONCRETE CURB & GUTTER COMBINATIONS)
66500	TEMPORARY SEDIMENT AND EROSION CONTROL			
66501	1160	ESC-100-1		BEST MANAGEMENT PRACTICE REFERENCE MATRIX
66502	1160-A	ESC-100-2		BEST MANAGEMENT PRACTICE REFERENCE MATRIX
66505	1161	ESC-200-1		TYPICAL TEMPORARY EROSION / SEDIMENT CONTROL APPLICATIONS
66506	1161-A	ESC-200-2		DETAILS OF TEMPORARY SLOPE DRAIN, BERMS, AND ENERGY DISSIPATOR
66507	1161-B	ESC-200-3		DETAILS OF SEDIMENT BARRIER APPLICATIONS
66508	1161-C	ESC-200-4		DETAILS OF SILT FENCE INSTALLATION
66509	1161-D	ESC-200-5		DETAILS OF SEDIMENT RETENTION BARRIER
66512	1162	ESC-300-1		DITCH CHECK STRUCTURES, TYPICAL APPLICATIONS AND DETAILS
66513	1162-A	ESC-300-2		DETAILS OF HAY BALE DITCH CHECKS
66514	1162-B	ESC-300-3		DETAILS OF SANDBAG DITCH CHECK
66515	1162-C	ESC-300-4		DETAILS OF EROSION CONTROL WATTLE DITCH CHECKS
66516	1162-D	ESC-300-5		DETAILS OF SILT DIKE DITCH CHECKS
66517	1162-E	ESC-300-6		DETAILS OF ROCK DITCH CHECKS
66518	1162-F	ESC-300-7		DETAILS OF ROCK DITCH CHECKS WITH SUMP EXCAVATION
66519	1162-G	ESC-300-8		DETAILS OF SILT FENCE DITCH CHECKS
66522	1163	ESC-400-1		INLET PROTECTION TYPICAL APPLICATIONS AND DETAILS
66523	1163-A	ESC-400-2		INLET PROTECTION DETAILS FOR COARSE AGGREGATE ON GRADES AND SAGS
66524	1163-B	ESC-400-3		INLET PROTECTION DETAILS OF WATTLES
66525	1163-C	ESC-400-4		INLET PROTECTION DETAILS OF SILT FENCE
66526	1163-D	ESC-400-5		INLET PROTECTION DETAILS OF SAND BAGS
66529	1164	ESC-501		FLOATING BASIN BOOM
66532	1165	ESC-502		STABILIZED CONSTRUCTION ENTRANCE
66535	1166	ESC-503		TEMPORARY DEWATERING STRUCTURES
66548	1170	ESC-507		TEMPORARY SEDIMENTATION BASIN
68000	GEOMETRIC CONTROLS			
68001	801	GN-2 NOTES		STANDARD DESIGN NOTES FOR PLAN ASSEMBLIES
68004	738	TO-107		DETAILS OF INTERSECTIONS AND TURNOUTS
68007	715	LTL-623		GEOMETRIC DESIGN DETAILS FOR SPEED CHANGE LANES WITH MEDIAN CROSSOVERS WITH AND WITHOUT CURBED GORE AREAS
68016	807	SSEC-1	(SHEET 1 OF 14)	STANDARD SUPERELEVATION OF CURVES
68017	808	SSEC-1	(SHEET 2 OF 14)	STANDARD SUPERELEVATION OF CURVES
70100	TRAFFIC STRIPE			
70133	1038	PS-701-7		STRIPING DETAILS FOR DROP LANES AND TURN LANES
70140	1036	PS-701-4		STRIPING DETAILS FOR 5 LANE ROADWAYS
70150	1039	PS-701-8		STRIPING DETAILS FOR ACCELERATION AND DECELERATION LANES ON CONVENTIONAL ROADS AND EXPRESSWAYS
70300	TRAFFIC CONTROL MARKINGS AND LEGENDS			
70301	1048	TCM-703	(SHEET 1 OF 2)	PAVEMENT LEGENDS AND MARKINGS
70302	1049	TCM-703	(SHEET 2 OF 2)	PAVEMENT LEGENDS AND MARKINGS
70308	754	CW-703		TYPICAL CROSSWALK LAYOUTS AND DETAILS
70311	755	SC-703		TYPICAL SCHOOL ZONE CROSSING PROTECTION SIGNING AND MARKINGS
70500	PAVEMENT MARKERS			
70501	1027	PM-705-1		DETAILS OF PAVEMENT MARKERS CLASS A, A-H, AND B
70504	1028	PM-705-2		DETAILS SHOWING APPLICATION OF PAVEMENT MARKERS
70511	1033	PM-705-6		DETAILS SHOWING APPLICATION OF PAVEMENT MARKERS FOR 5 LANE ROADWAYS
70700	DELINEATORS AND HAZARD MARKERS			
70701	1001	HMI-707		DETAILS OF CENTERMOUNT DELINEATORS AND HAZARD MARKERS
71000	ROADWAY SIGNS INSTALLATION			
71001	1201	IHS-710-1	(SHEET 1 OF 2)	WIND VELOCITY CHART FOR ROADSIDE SIGNS
71002	1202	IHS-710-1	(SHEET 2 OF 2)	DESIGN CHARTS FOR BEAM SIGN SUPPORTS AND FOOTINGS
71017	1214	IHS-710-12		DETAILS OF ROADWAY SIGN POST (SMALL CHANNEL AND TUBULAR SECTION)
71023	1216	IHS-710-14		HIGHWAY SIGN MOUNTING FOR STANDARD SIGNS
71032	1225	IHS-710-21		DETAILS FOR LOCATION AND MOUNTING OF STANDARD FLAT PANEL SIGNS ON U-CHANNEL AND TUBULAR POSTS
71035	1229	IHS-710-23		LIGHTWEIGHT STRUCTURAL SIGN SUPPORT INSTALLATIONS
71041	1238	SL-710		TYPICAL STOP AND YIELD SIGN LOCATIONS

SHEET NO.: 1-B

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

INDEX TO SPECIAL AND STANDARD DRAWINGS

JOB NO.: 20-1101-0085 | REVISION NO.: --
DATE: DEC 2021 | APPROVED BY: -- | CHECKED BY: -- | DRAWN BY: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY:
THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE 5
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

SCALE: --

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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INDEX NO. NEW	INDEX NO. OLD	DRAWING NO.		DESCRIPTION
	SIGN FACE DETAILS			
71050	1300-A	SHS-0	(SHEET 1 OF 4)	STANDARD HIGHWAY SIGNS INDEX
71051	1300-B	SHS-0	(SHEET 2 OF 4)	STANDARD HIGHWAY SIGNS INDEX
71052	1300-C	SHS-0	(SHEET 3 OF 4)	STANDARD HIGHWAY SIGNS INDEX
71053	1300-D	SHS-0	(SHEET 4 OF 4)	STANDARD HIGHWAY SIGNS INDEX
71060	1301	SHS-1		STANDARD HIGHWAY SIGNS
71061	1302	SHS-2		STANDARD HIGHWAY SIGNS
71062	1303	SHS-3		STANDARD HIGHWAY SIGNS
71063	1304	SHS-4		STANDARD HIGHWAY SIGNS
71065	1306	SHS-6		STANDARD HIGHWAY SIGNS
71066	1307	SHS-7		STANDARD HIGHWAY SIGNS
71067	1308	SHS-8		STANDARD HIGHWAY SIGNS
71069	1310	SHS-10		STANDARD HIGHWAY SIGNS
71072	1311	SHS-11		STANDARD HIGHWAY SIGNS
71075	1313	SHS-13		STANDARD HIGHWAY SIGNS
71077	1315	SHS-15		STANDARD HIGHWAY SIGNS
71078	1316	SHS-16		STANDARD HIGHWAY SIGNS
71079	1317	SHS-17		STANDARD HIGHWAY SIGNS
71080	1318	SHS-18		STANDARD HIGHWAY SIGNS
71082	1319	SHS-19		STANDARD HIGHWAY SIGNS
71083	1320	SHS-20		STANDARD HIGHWAY SIGNS
71084	1321	SHS-21		STANDARD HIGHWAY SIGNS
71090	1326	SHS-26		STANDARD HIGHWAY SIGNS
71091	1327	SHS-27		STANDARD HIGHWAY SIGNS
71092	1328	SHS-28		STANDARD HIGHWAY SIGNS
71093	1329	SHS-29		STANDARD HIGHWAY SIGNS
71094	1330	SHS-30		STANDARD HIGHWAY SIGNS
71095	1331	SHS-31		STANDARD HIGHWAY SIGNS
74000	TRAFFIC CONTROL DEVICES FOR CONSTRUCTION WORK ZONES			
74001	902	B-107-2		PERFORATED SQUARE STEEL TUBING (PSST) BARRICADES TYPE I, TYPE II, AND TYPE III & VERTICAL PANELS TYPE I AND TYPE II
74004	905	LCS-107		DETAILS SHOWING REQUIREMENTS FOR LIGHTING CONSTRUCTION SIGNS
74200	PORTABLE CHANGEABLE MESSAGE SIGNS			
74201	1239	PCMS-710	(SHEET 1 OF 3)	DETAILS OF PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)
74202	1240	PCMS-710	(SHEET 2 OF 3)	DETAILS OF PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)
74203	1241	PCMS-710	(SHEET 3 OF 3)	DETAILS OF PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS)

SHEET NO.: 1-C

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

INDEX TO SPECIAL
AND STANDARD DRAWINGS

DATE: DEC 2021 | JOB NO.: 20-1101-0085 | REVISION NO.: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY: thompson ENGINEERING

THOMPSON ENGINEERING, INC.
27351 MARCELL STREET, SUITE 2-252
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

CHECKED BY: -- | APPROVED BY: -- | DRAWN BY: --

SCALE: --

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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ROADWAY

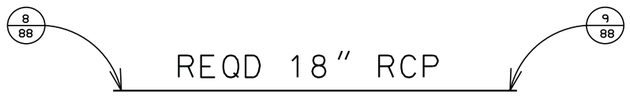
55+00

CENTER LINE .....
STATE BOUNDARY LINE .....
COUNTY BOUNDARY LINE .....
CITY OR TOWN LIMITS .....
SECTION LINES ..... SEC 22 / SEC 23
QUARTER-SECTION LINES .....
RANGE-TOWNSHIP LINES ..... R-17-E / R-18-E
PROPERTY LINES ..... PL
PRESENT ROW .....
ACQUIRED ROW .....
DENIED ACCESS .....
REQUIRED FENCE .....
CONSTRUCTION LIMITS ..... CONST LIM
CLEARING LIMITS .....
RAILROAD .....
EXISTING WOOD FENCE .....
EXISTING BARBED WIRE FENCE .....
EXISTING CHAIN LINK FENCE .....
EXISTING ELECTRIC FENCE .....
EXISTING HOG WIRE FENCE .....
TREES .....
WOODS LINE .....
MARSH .....
EXISTING DITCH.....
REQUIRED DITCH.....
GRAVEL ROAD .....
EXISTING GUARDRAIL .....
REQUIRED GUARDRAIL .....
SATELLITE DISH .....
TRAFFIC LIGHT .....
BENCH MARK .....
SURVEY POINT .....
ENVIRONMENTAL CLEARED LIMITS ..... ENV

EXISTING PIPE .....
REQUIRED PIPE (WITH PIPE END TREATMENT).....
REQUIRED PIPE END TREATMENT.....
EXISTING BOX CULVERT .....
REQUIRED BOX CULVERT .....
EXTENDED CULVERT .....
DROP INLET OR JUNCTION BOX (SEE PLANS DESCRIPTION).....
BRIDGE .....
PIPE CULVERT (ELEVATION VIEW) .... FL=410.25
BOX CULVERT (ELEVATION VIEW) ..... FL=420.55

DRAINAGE STRUCTURE INDEX NUMBERS

DRAINAGE STRUCTURE WRITE-UPS ARE LOCATED ON THE DRAINAGE CROSS-SECTION SHEETS. STRUCTURES WITH WRITE-UPS ARE INDEXED AT EACH END, WITH NUMBERS ASSIGNED BY DIRECTION OF FLOW. THE NUMBER IN THE UPPER HALF OF THE CIRCLE (EXAMPLE 8 OR 9) IS THE DRAINAGE STRUCTURE INDEX NUMBER. THE NUMBER IN THE LOWER HALF (EXAMPLE 88) IS THE SHEET REFERENCE NUMBER.



ROADWAY PIPE EXAMPLE

ALL INFORMATION CONCERNING THE DISPOSITION OF SIDE DRAIN PIPE IS SHOWN ON THE SUMMARY OF QUANTITIES BOX SHEET. THE TOP LETTERS (SD) ARE FOR SIDE DRAIN AND THE BOTTOM NUMBER IS THE DRAINAGE STRUCTURE INDEX NUMBER.

SIDE DRAIN PIPE EXAMPLE

DIRECTION OF FLOW .....

UTILITIES

	EXISTING	PROPOSED
POWER POLE		
LIGHT POLE		
TELEPHONE POLE		
ANCHOR		
STUB (POWER)		
STUB (TELEPHONE)		
ELECTRIC DUCT	EL 4MTD	EL 4MTD
BURIED ELECTRIC CABLE	BE	BE
OVERHEAD ELECTRIC CABLE	OE	OE
ELECTRIC MANHOLE	E	E
TOWER		
TELEPHONE PEDESTAL		T
TELEPHONE DUCT	TP 4MTD	TP 4MTD
BURIED TELEPHONE CABLE	BTC	BTC
OVERHEAD TELEPHONE CABLE	OTC	OTC
TELEPHONE MANHOLE	TMH	TMH
SANITARY SEWER	S	SS
WATER LINE	W	W
WATER MAIN	WM	WM
WATER VALVE		
FIRE HYDRANT		
WATER METER		
GAS LINE	G	G
GAS MAIN	GM	GM
GAS VALVE		
GAS REGULATOR		
BURIED CABLE TELEVISION.....	BTV	BTV
OVERHEAD CABLE TELEVISION.....	OTV	OTV

EXISTING PAVEMENT (RETAIN).....

EXISTING PAVEMENT (REMOVE).....

EXISTING PAVEMENT (RETAIN AND OVERLAY)..

CONCRETE (EXISTING OR REQUIRED).....

EXISTING CONCRETE (REMOVE).....

RIP RAP (EXISTING OR REQUIRED).....

REQUIRED PAVEMENT WIDENING.....

SHEET NO. : 1-D

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PLANS LEGEND

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: NTS
PREPARED BY :

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
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ORANGE BEACH, ALABAMA 36561
(251) 378-6990

thompson ENGINEERING

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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ABANDON(ED)	ABAN
ABUTMENT	ABUT
ACCELERATION	ACCL
ACQUIRED	ACQD
ACRE	AC
AHEAD	AH
ALABAMA	AL
ALABAMA DEPARTMENT OF TRANSPORTATION	ALDOT
ALTERNATE	ALT
APPROXIMATE(LY)	APP
AREA	A
ASPHALT	ASP
AVERAGE ANNUAL DAILY TRAFFIC	AADT
BACK	BK
BACK OF GUARDRAIL	BK-GR
BACKSIGHT	BS
BARBED WIRE	B/W
BARREL	BBL
BARRIER	BAR
BASE LINE	BL or ℄
BEARING	BRNG
BEGIN	BEG
BEGINNING OF PROJECT	BOP
BETWEEN	BTW
BILLBOARD	BBD
BENCH MARK	BM
BITUMINOUS	BIT
BITUMINOUS COATED CORRUGATED METAL PIPE	BCCMP
BOUNDARY	BDY
BRIDGE	BRG
BRIDGE END SLAB	BES
CAPACITY	CAPY
CAST IRON	CI
CAST IN PLACE	CIP
CATCH BASIN	CB
CENTER LINE	℄
CHAIN LINK	C/L
CLASS	CLS
CONCRETE	CONC
CONNECTION	CONN
CONSTRUCTION LIMITS	CONST LIM
CORNER	COR
CORRECTION	CORR
CORRUGATED IRON	CORI
CORRUGATED METAL	CM
CORRUGATED METAL PIPE	CMP
CORRUGATED PLASTIC PIPE	CPP
COUNTY	CO
COUNTY ROAD	CO-RD
CREEK	CK
CROSS SECTION	X-SECT
CROWN REMOVED	CR
CUBIC FEET	FT3 or CU FT
CUBIC FEET PER SECOND	CFS
CUBIC YARD	YD3 or CU YD
CUBIC METERS	M3
CULVERT	CULV
CULTIVATED	CULT
CURB FACE	CF
CURB AND GUTTER	C&G
CUT	C
CURVE TO SPIRAL	CS
DECELERATION	DECEL
DECLINATION	DECL
DEGREE OF CURVE	D
DENIED ACCESS	D/A
DEPARTURE	DEP
DIAMETER	DIA
DIRECTION	DIR
DISTANCE	DIST
DOUBLE	DBL
DOUBLE BARREL CULVERT	CD
DRAINAGE AREA	DA
DRIVE	DR
DROP INLET	DI
EACH	EA
EASEMENT	ESMT
EAST	E
EAST BOUND ROADWAY	EBR
EDGE OF PAVEMENT	EP
ELEVATION	EL or ELEV
END OF RETURN	ER
END ANCHOR	E/A
END OF PROJECT	EOP
EQUATION	EQ
EROSION CONTROL PRODUCTS	ECP
EXCAVATION	EXCAV
EXISTING	EX
EXPANSION	EXP
EXTENSION	EXT
EXTERNAL	E
EXTRA STRENGTH	EXT STR
FEET	FT
FILL	F
FILTER BLANKET	FLT BLNK
FINISHED GRADE	FG
FINISHED SURFACE	FS
FISCAL YEAR	FY
FIXED	FIX
FLAT BOTTOM	FB
FLOW LINE	FL or ℄
FORESIGHT OR FRONTSIGHT	FST
FRACTIONAL	FRAC
FULL SUPERELEVATION	FS
GALLON	GAL
GASOLINE PUMPS	GPP
GARAGE	GAR
GAUGE	GA
GIRDER	GDR
GOVERNMENT	GOV
GRASS	GRS
GRADE CHANGE	GC
GRADE POINT	GP
GRADE ROD	GRD
GRAVEL	GRV
GUARDRAIL	GR
HEADWALL	HDWL
HECTARE	HA
HIGH WATER MARK	HWM
HEIGHT	HT
HEIGHT OF INSTRUMENT	HI
HIGH WATER	HW
HIGHWAY	HWY
HOGWIRE	H/W
HORIZONTAL	HOR
HUB & TACK	H&T
HYDRANT	HYD
IMPACT ATTENUATOR	IA
IN ACCORDANCE WITH	I/A/W
IN PLACE	IN-PL
INCHES	IN
INCLUDING	INCL
INCORPORATED	INC
INSTRUMENT	INST
ISLAND	ISL
JOINT	JT
JUNCTION	JCT
JUNCTION BOX	JB
KILOMETER	KM
KILOMETER POST	KMP
KILOMETERS PER HOUR	KPH
LANE	LN
LATITUDE	LAT
LEFT	LT
LEFT AHEAD	LA
LEFT BACK	LB
LENGTH OF CURVE	L
LINK	LK
LIMIT	LIM
LINEAR	LIN
LINEAR FEET	LIN FT
LONGITUDE	LONG
MANHOLE	MH
MARKER	MRK
MAXIMUM	MAX
MEAN HIGH WATER	MHW
MEAN LOW WATER	MLW
MEASUREMENT	MEAS
MEDIAN	MED
METER	M
MERIDIAN	MER
MILE POST	MP
MILES	MI
MILES PER HOUR	MPH
MILLIMETER	MM
MINIMUM	MIN
MONUMENT	MON
MULTIPLE	MULT
NORMAL	NORM
NORMAL CROWN	NC
NORMAL CROWN SLOPE	NCS
NORTH	N
NORTH BOUND ROADWAY	NBR
NORTHING-EASTING	NE
NOT IN CONTRACT	NIC
NOT TO SCALE	NTS
NUMBER	NO
OBSERVATION	OBS
ON CENTER	OC
ORIGINAL	ORIG
OVERHEAD	OHD
OVERHAUL	OH
OUT TO OUT	OO
PAINT	PNT
PAVED	PVD
PAVED SHOULDER	PVD SH
PAVEMENT	PVMT
PIPE END TREATMENT	PET
PIPE ENTERING CULVERT	PEC
PLATE GIRDER	PL GDR
POINT OF BEGINNING	POB
POINT OF COMPOUND CURVE	PCC
POINT OF CURVATURE	PC
POINT OF REVERSE CURVATURE	PRC
POINT OF ENDING	POE
POINT OF INTERSECTION	PI
POINT OF TANGENCY	PT
POINT ON CURVE	POC
POUND	LB
PRESENT	PRES
PROFILE GRADE	PG
PROJECT	PROJ
PROJECT CONTROL	PJC
PROPERTY LINE	P
PROPOSED	PROP
QUADRUPLE	QUAD
QUADRUPLE BARREL CULVERT	CQ
QUANTITY	QUANT
RADIUS	R
RAILROAD	RR
RANGE	RGE
RECORD	REC
REDUCTION	RED
REFERENCE	REF
REFERENCE POINT	RP
REFERENCE POINT FOR POINT ON TANGENT	RPPOT
REINFORCED	REINF
REINFORCED CONCRETE	RC
REINFORCED CONCRETE DECK GIRDER	RCDG
REINFORCED CONCRETE PIPE	RCP
REINFORCING STEEL	REINF STL
RELOCATE	RELC
REMOVE	REM
REQUIRED	REQD
RETAIN(ING)	RET
REVERSE CROWN	RC
REVISION	REV
RIGHT	RT
RIGHT AHEAD	RA
RIGHT BACK	RB
RIGHT OF WAY	ROW
RIGHT OF WAY MARKER	ROWM
RIVER	RIV
ROAD	RD
ROADWAY	RDWY
SECTION	SEC
SERVICE ROAD	SER RD
SHEET	SHT
SHEET PILING	SHT PILE
SHOULDER	SHLD
SIDE DRAIN	SD
SIDEWALK	SW
SIGHT DISTANCE	S DIST
SINGLE BARREL CULVERT	CS
SKEW	SK
SLOPE STAKE	SST
SOLID SODDING	SOL SOD
SOUTH	S
SOUTH BOUND ROADWAY	SBR
SPECIAL	SP
SPECIAL DITCH	SP-DT
SPECIAL DITCH LEFT	SDL
SPECIAL DITCH MEDIAN	SDM
SPECIAL DITCH RIGHT	SDR
SPECIAL DRAWING	SP-DWG
SPECIFICATIONS	SPEC
SPRING LINE	SL
SPIRAL TO CURVE	SC
SPIRAL POINT OF INTERSECTION	SPI
SPIRAL TO TANGENT	ST
SQUARE	SQ
SQUARE FEET	FT2 or SQ FT
SQUARE METERS	M2
SQUARE YARD	YD2 or SQ YD
STAKE	STK
STANDARD	STD
STANDARD DRAWING	STD-DWG
STANDARD STRENGTH	STD STR
STATION	STA
STATION & ELEVATION	S/E
STATION & OFFSET	SO
STOPPING SIGHT DISTANCE	SSD
STREET	ST
STRUCTURE	STR
SUB-GRADE	SG
SUPERELEVATION	SE, se or e
SURVEY	SRV
SYMMETRICAL	SYM
TANGENT	TAN
TANGENT LENGTH (CURVE DATA)	T
TANGENT TO SPIRAL	TS
TEMPORARY	TEMP
TEMPORARY BENCH MARK	TBM
THROAT	TH
TOWNSHIP	TSHP
TRIPLE	TR
TRIPLE BARREL CULVERT	CT
TURN OUT	TO
TURNING POINT	TP
TYPE	TY
UNIT	U
UNKNOWN	UNK
UNPAVED	UNPVD
VALLEY GUTTER	VG
VARIABLE	VAR
VERTICAL	VERT
VERTICAL CURVE	VC
VERTICAL POINT OF CURVATURE	PVC
VERTICAL POINT OF INTERSECTION	PVI
VERTICAL POINT OF TANGENCY	PVT
VITRIFIED	VIT
VOLUME	VOL
WEST	W
WEST BOUND ROADWAY	WBR
WING WALL	WW
WITNESS CORNER	WC
WOOD	WD
WORKING POINT	WP
WOVEN WIRE	W/W
YARD	YD

STRUCTURES

NUMBER OF STORIES	1, 2, 3, 4
FRAME	FR
BUILDING	BLDG
BLOCK	BLK
BRICK	BR
STUCCO	STU
METAL	MET
RESIDENCE	RES
BUSINESS	BUS
WAREHOUSE	WHSE
CHICKEN HOUSE	CH HSE
CHURCH	CH
SCHOOL	SCH
DOUBLE WIDE MOBILE HOME	DW MH
MOBILE HOME	MH

UTILITIES

ANCHOR WIRE	AW
BURIED ELECTRIC	BE
BURIED FIBER OPTIC	BFO
BURIED TELEPHONE CABLE	BTC
BURIED CABLE TELEVISION	BTV
CAST IRON	CI
CIRCUIT	CKT
DUCTILE IRON	DUC IRON
EASEMENT	ESMT
FIBER OPTIC	FO
FIRE HYDRANT	FH
FORCED MAIN (SANITARY SEWER)	FM
GAS MAIN	GM
GAS METER	GMET
GAS VALVE	GV
GUY WIRE	GUY
HIGH PRESSURE	HP
KILOVOLT AMPS	KVA
MANHOLE	MH
MERCURY VAPOR LIGHT	MVL
OVERHEAD FIBER OPTIC	OFO
OVERHEAD TELEPHONE CABLE	OTC
OVERHEAD ELECTRIC CABLE	OE
OVERHEAD CABLE TELEVISION	OTV
PAIR	PR
PEDESTAL	PED
POLY-VINYL CHLORIDE PIPE	PVC
POWER POLE	PP
SANITARY SEWER	SS
SERVICE	SERV
STEEL	STL
STORM DRAIN	STM
STORM SEWER	STMS
SWITCH	SW
TELEPHONE	TEL
TELEPHONE MANHOLE	TMH
TRANSFORMER	TRAN
TRANSMISSION LINE	TR LN
TRIAXIAL CABLE (SERVICE)	TRIX
VITRIFIED CLAY PIPE	VCP
WATER MAIN	WM
WATER METER	WMET
WATER VALVE	WV

PROPERTY

DEED BOOK	DB
REAL PROPERTY BOOK	RP
PLAT BOOK	PB
MAP BOOK	MB
PAGE	PG
OFFICIAL RECORD	OR
CAPPED (TYPICAL PLASTIC SURVEYORS CAP)	CAP
ALUMINUM CAP	ALUM CAP
BRASS CAP	BR CAP
IRON PIPE	IP
CRIMPED	CR
REINFORCING STEEL	REBAR
CONCRETE MONUMENT	CM
DAMAGED	DAM
CHISELED X	CH "X"
HUB AND TACK	H&T
NAIL AND BOTTLE TOP	N&BT
PARKER-KALON (MASONARY NAILS)	PK NAIL
FENCE POST	F-POST
RAILROAD IRON	RR IRON
COTTON SPINDLE	COT SP
ANGLE IRON	ANGLE IRON

SHEET NO. : 1-E

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PLANS ABBREVIATIONS

JOB NO. : 20-1101-0085 | REVISION NO. : --

DATE : DEC 2021 | APPROVED BY: -- | CHECKED BY: -- | DRAWN BY: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
4701 MAIN STREET, SUITE 2
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(251) 378-6980

thompson ENGINEERING

SCALE: NTS

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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2021.12.31 14:10:21 0010-E_1E6.dgn

BEGIN WORK
BL CANAL RD (SR-180)
M.P. 28.32
STA 665+00.00

665+00

BEGIN PROJECT
BL CANAL RD
STA 667+54.83

RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00
STATE EXPENDITURE PLAN #22
CANAL ROAD IMPROVEMENTS E OF SR-161

670+00

675+00

END WORK
BL CALLAWAY DRIVE
STA 11+59.77

12+00

BL CALLAWAY DRIVE

CITY PROJECT
ACCESS IMPROVEMENTS AND MULTI-USE TRAIL
CONNECTIONS FROM CALLAWAY DR TO WILSON BLVD

END WORK
BL NORTH ACCESS
STA 30+15.00

30+00

680+00

685+00

BL NORTH ACCESS

28+00

BL CANAL ROAD

BL CANAL ROAD

687+50

MATCHLINE STA 687+50
SHEET 1-G

660+00

BL CANAL ROAD (SR-180)

88+00

BL SR-161

86+00

END WORK
BL SR-161
M.P. 1.70
STA 88+20.44

10+00

8+00

BL CALLAWAY DRIVE

6+00

4+00

210+00

208+00

BL TRAIL CONNECTION

206+00

202+00

204+00

BL TRAIL CONNECTION

END WORK
BL CALLAWAY DRIVE
STA 4+22.96

RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00
STATE EXPENDITURE PLAN #22
CANAL ROAD IMPROVEMENTS E OF SR-161

CITY PROJECT
ACCESS IMPROVEMENTS AND MULTI-USE TRAIL
CONNECTIONS FROM CALLAWAY DR TO WILSON BLVD

NOTES:
1. SEE SHEETS 1-H THRU 1-J FOR SURVEY CONTROL AND GEOMETRIC LAYOUT.

SHEET NO. : 1-F

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PROJECT KEY SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :
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DRAWN BY: -- CHECKED BY: -- APPROVED BY: --

SCALE: HORIZ 1"=100'

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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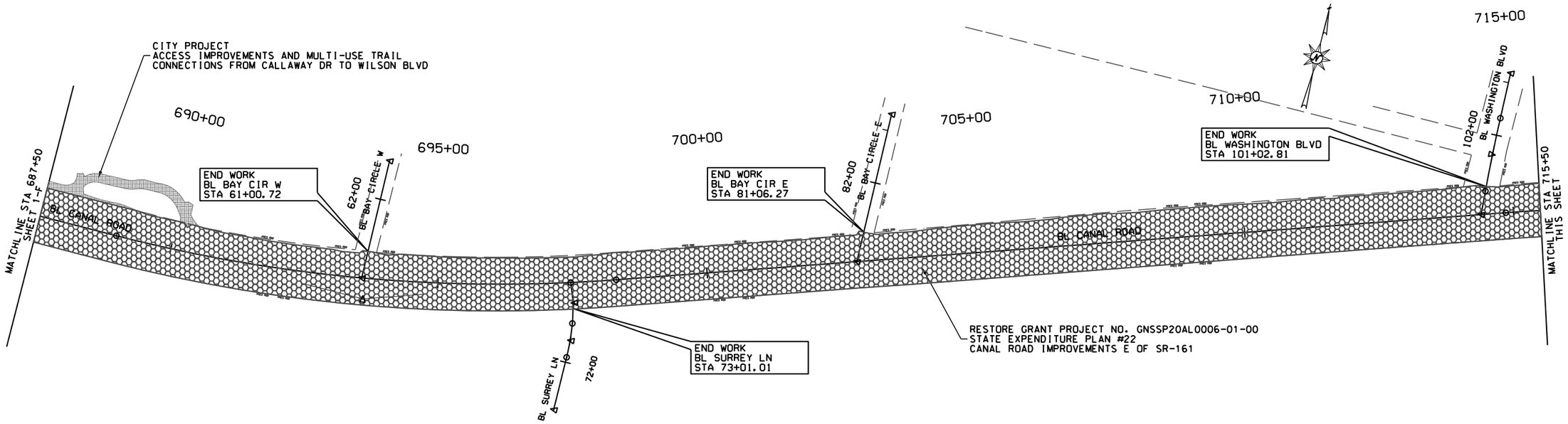
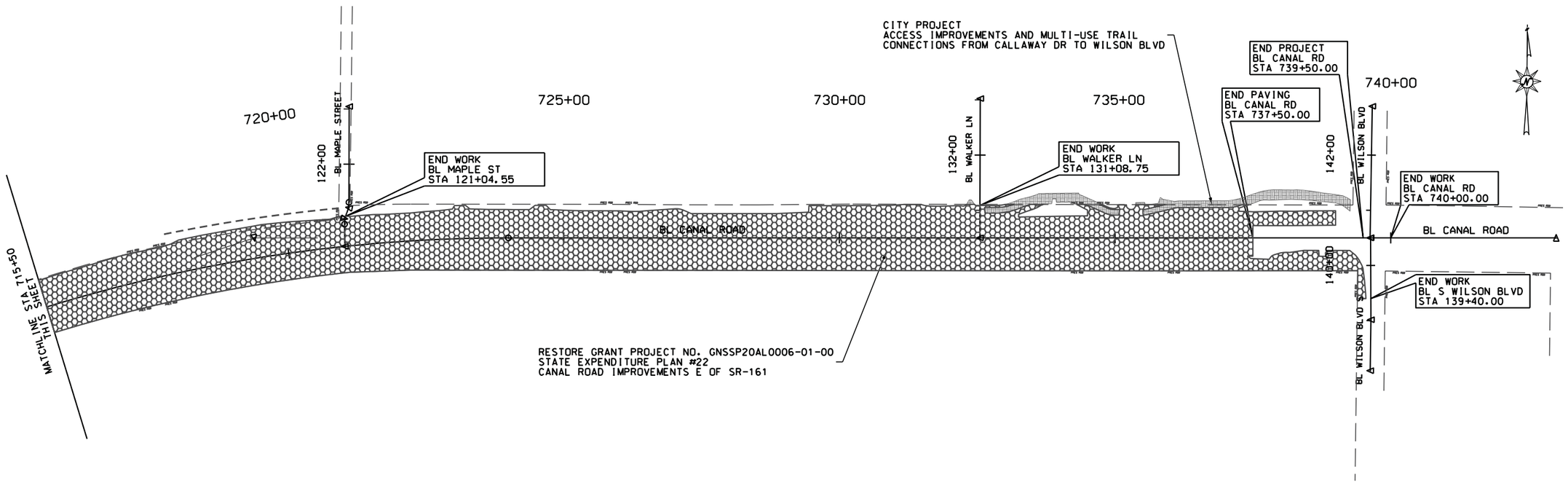
001F_KEY.dgn



NOTES:
1. SEE SHEETS 1-H THRU 1-J FOR SURVEY CONTROL AND GEOMETRIC LAYOUT.



SHEET NO. : 1-G

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PROJECT KEY SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

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CHECKED BY: --
APPROVED BY: --

SCALE: HORIZ 1"=100'
DRAWN BY: --

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REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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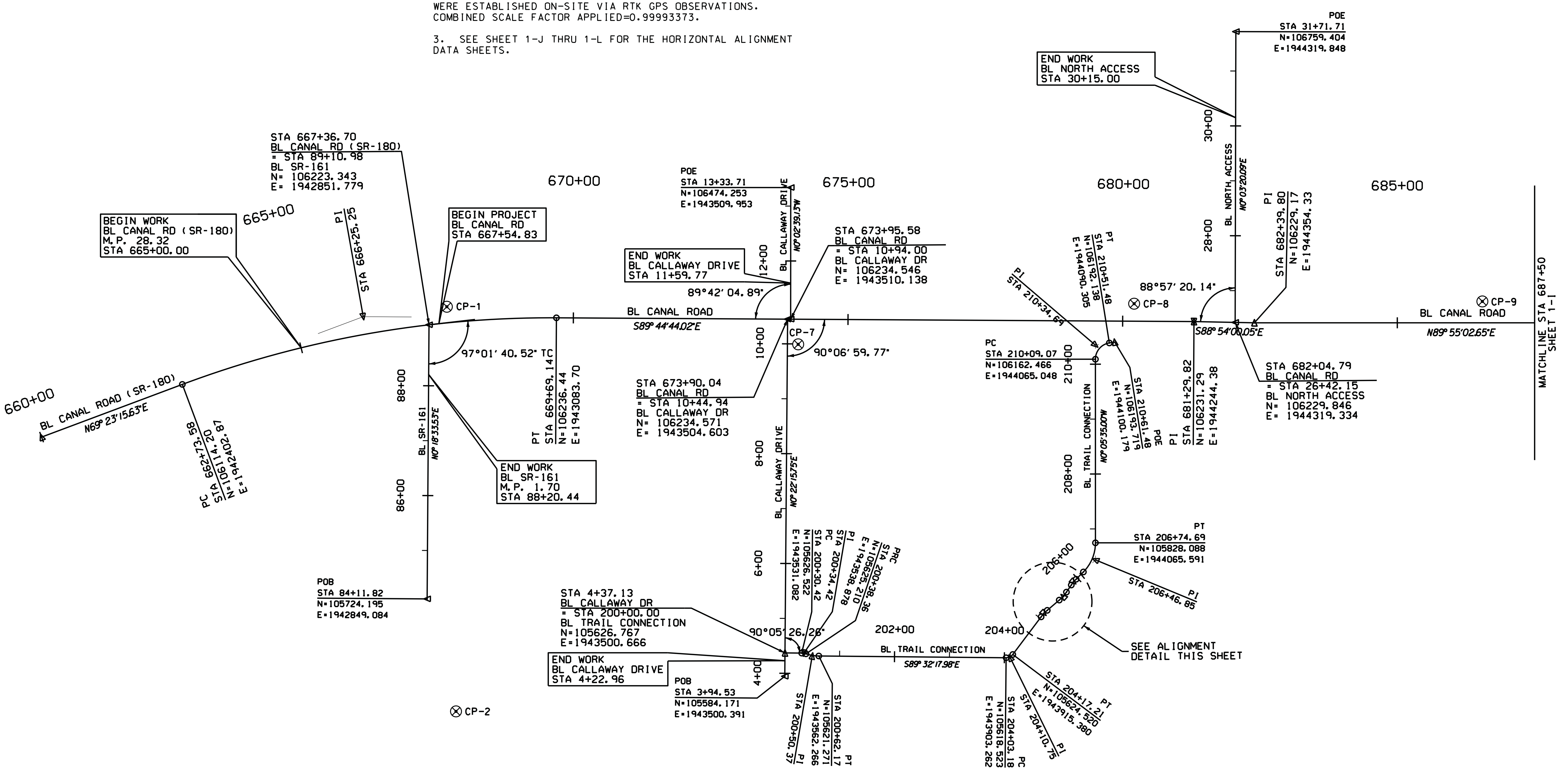
0016_KEY.dgn
2021.12.31 14:10:29

HORIZONTAL AND VERTICAL CONTROL POINTS						
POINT NO.	STA	OFFSET	NORTHING	EASTING	ELEVATION (FT)	DESCRIPTION
1	667+72.22	29.28' LT	106256.313	1942884.209	18.90	RED CAPPED REBAR (WATTIER)
2	666+85.14	704.50' RT	105519.440	1942901.938	12.94	RED CAPPED REBAR (WATTIER)
7	674+09.58	45.72' RT	106188.763	1943523.935	16.72	RED CAPPED REBAR (WATTIER)
8	680+20.70	31.89' LT	106263.659	1944135.393	15.86	4" MAG HUB
9	686+54.88	38.94' LT	106268.710	1944769.354	15.87	4" MAG HUB

NOTES:
1. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND WERE ESTABLISHED ON-SITE VIA RTK GPS OBSERVATIONS

2. HORIZONTAL COORDINATES SHOWN HEREON ARE REFERENCED TO STATE PLANE COORDINATES, ALABAMA WEST ZONE, NAD 83 AND WERE ESTABLISHED ON-SITE VIA RTK GPS OBSERVATIONS. COMBINED SCALE FACTOR APPLIED=0.99993373.

3. SEE SHEET 1-J THRU 1-L FOR THE HORIZONTAL ALIGNMENT DATA SHEETS.



SHEET NO. : 1-H

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PRIMARY SURVEY CONTROL AND GEOMETRIC LAYOUT SHEET

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

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SCALE: HORIZ 1"=100' | DRAWN BY: -- | CHECKED BY: -- | APPROVED BY: --

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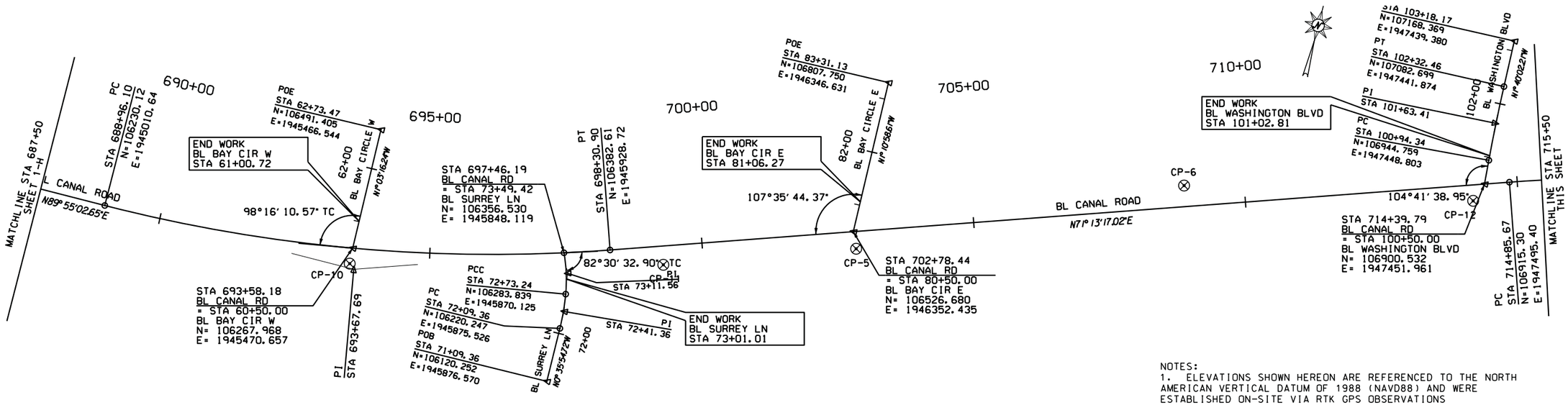


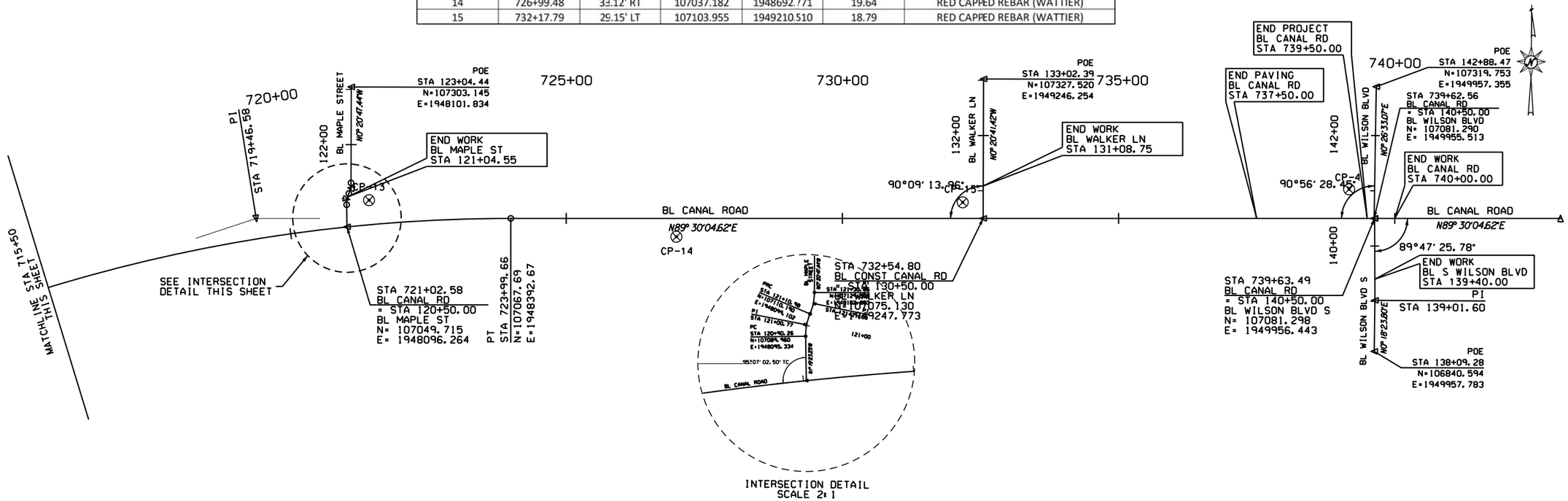
NOTES:
1. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND WERE ESTABLISHED ON-SITE VIA RTK GPS OBSERVATIONS

2. HORIZONTAL COORDINATES SHOWN HEREON ARE REFERENCED TO STATE PLANE COORDINATES, ALABAMA WEST ZONE, NAD 83 AND WERE ESTABLISHED ON-SITE VIA RTK GPS OBSERVATIONS. COMBINED SCALE FACTOR APPLIED=0.99993373.

3. SEE SHEET 1-J THRU 1-L FOR THE HORIZONTAL ALIGNMENT DATA SHEETS.

HORIZONTAL AND VERTICAL CONTROL POINTS

POINT NO.	STA	OFFSET	NORTHING	EASTING	ELEVATION (FT)	DESCRIPTION
3	739+74.60	781.48' RT	106299.941	1949974.356	5.52	RED CAPPED REBAR (WATTIER)
4	739+17.35	52.66' LT	107133.552	1949909.848	18.90	RED CAPPED REBAR (WATTIER)
5	702+81.36	31.69' RT	106497.619	1946365.395	17.92	RED CAPPED REBAR (WATTIER)
6	708+90.01	38.74' LT	106760.227	1946918.973	17.48	RED CAPPED REBAR (WATTIER)
10	693+55.28	28.85' RT	106239.025	1945472.439	18.61	RED CAPPED REBAR (WATTIER)
11	699+26.31	34.47' RT	106380.690	1946030.139	17.02	4" MAG HUB
12	714+16.76	25.12' RT	106865.550	1947439.536	18.13	RED CAPPED REBAR (WATTIER)
13	721+46.65	44.43' LT	107098.541	1948135.794	18.78	RED CAPPED REBAR (WATTIER)
14	726+99.48	33.12' RT	107037.182	1948692.771	19.64	RED CAPPED REBAR (WATTIER)
15	732+17.79	29.15' LT	107103.955	1949210.510	18.79	RED CAPPED REBAR (WATTIER)



CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PRIMARY SURVEY CONTROL AND GEOMETRIC LAYOUT SHEET

SHEET NO.: 1-I

PREPARED BY: thompson ENGINEERING

THOMPSON ENGINEERING, INC.
2970 AMERICA'S BOULEVARD, SUITE A
PANAMA CITY BEACH, FLORIDA 32408
(251) 378-6900

DRAWN BY: -- CHECKED BY: -- APPROVED BY: -- DATE: DEC 2021 JOB NO.: 20-1101-0085 REVISION NO.: --

SCALE: HORIZ 1"=100'

REVISION NO. DESCRIPTION BY: DATE

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2021.12.31 14:10:36

Project Name: Canal Rd Alignments
Description:
Horizontal Alignment Name: BL CANAL RD
Description:

		STATION	NORTHING	EASTING
	Element: Linear			
POB	( )	659+99.98	106017.880	1942146.788
PC	( )	662+73.58	106114.197	1942402.867
	Tangent Direction:	N 69°23'15.63" E		
	Tangent Length:	273.59		
	Element: Circular			
PC	( )	662+73.58	106114.197	1942402.867
PI	( )	666+25.25	106238.002	1942732.029
CC	( )		104326.599	1943075.220
PT	( )	669+69.14	106236.440	1943083.701
	Radius:	1909.86		
	Delta:	20°52'00.35" Right		
	Degree of Curvature(Arc):	3°00'00.00"		
	Length:	695.56		
	Tangent:	351.68		
	Chord:	691.72		
	Middle Ordinate:	31.58		
	External:	32.11		
	Tangent Direction:	N 69°23'15.63" E		
	Radial Direction:	S 20°36'44.37" E		
	Chord Direction:	N 79°49'15.81" E		
	Radial Direction:	S 0°15'15.98" W		
	Tangent Direction:	S 89°44'44.02" E		
	Element: Linear			
PT	( )	669+69.14	106236.440	1943083.701
PI	( )	681+29.82	106231.285	1944244.377
	Tangent Direction:	S 89°44'44.02" E		
	Tangent Length:	1160.69		
	Element: Linear			
PI	( )	681+29.82	106231.285	1944244.377
PI	( )	682+39.80	106229.174	1944354.333
	Tangent Direction:	S 88°54'00.05" E		
	Tangent Length:	109.98		
	Element: Linear			
PI	( )	682+39.80	106229.174	1944354.333
PC	( )	688+96.10	106230.120	1945010.636
	Tangent Direction:	N 89°55'02.65" E		
	Tangent Length:	656.30		
	Element: Circular			
PC	( )	688+96.10	106230.120	1945010.636
PI	( )	693+67.69	106230.800	1945482.228
CC	( )		109094.906	1945006.506
PT	( )	698+30.90	106382.611	1945928.717
	Radius:	2864.79		
	Delta:	18°41'45.63" Left		
	Degree of Curvature(Arc):	2°00'00.00"		
	Length:	934.80		
	Tangent:	471.59		
	Chord:	930.66		
	Middle Ordinate:	38.04		
	External:	38.56		
	Tangent Direction:	N 89°55'02.65" E		
	Radial Direction:	S 0°04'57.35" E		
	Chord Direction:	N 80°34'09.84" E		
	Radial Direction:	S 18°46'42.98" E		
	Tangent Direction:	N 71°13'17.02" E		
	Element: Linear			
PT	( )	698+30.90	106382.611	1945928.717
PC	( )	714+85.67	106915.301	1947495.400
	Tangent Direction:	N 71°13'17.02" E		
	Tangent Length:	1654.77		
	Element: Circular			
PC	( )	714+85.67	106915.301	1947495.400
PI	( )	719+46.58	107063.675	1947931.779
CC	( )		104203.006	1948417.610
PT	( )	723+99.66	107067.687	1948392.675
	Radius:	2864.79		
	Delta:	18°16'47.59" Right		
	Degree of Curvature(Arc):	2°00'00.00"		
	Length:	913.99		
	Tangent:	460.91		
	Chord:	910.12		
	Middle Ordinate:	36.37		
	External:	36.84		
	Tangent Direction:	N 71°13'17.02" E		
	Radial Direction:	S 18°46'42.98" E		
	Chord Direction:	N 80°21'40.82" E		
	Radial Direction:	S 0°29'55.38" E		
	Tangent Direction:	N 89°30'04.62" E		
	Element: Linear			
PT	( )	723+99.66	107067.687	1948392.675
POE	( )	743+00.00	107084.227	1950292.938
	Tangent Direction:	N 89°30'04.62" E		
	Tangent Length:	1900.34		

Project Name: Canal Rd Alignments
Description:
Horizontal Alignment Name: BL SR-161
Description:

		STATION	NORTHING	EASTING
	Element: Linear			
POB	( )	84+11.82	105724.195	1942849.084
POE	( )	89+10.98	106223.343	1942851.779
	Tangent Direction:	N 0°18'33.53" E		
	Tangent Length:	499.16		

Project Name: Canal Rd Alignments
Description:
Horizontal Alignment Name: BL CALLAWAY DR N
Description:
Style: CI Construction

		STATION	NORTHING	EASTING
	Element: Linear			
POB	( )	10+94.00	106234.546	1943510.138
POE	( )	13+33.71	106474.253	1943509.953
	Tangent Direction:	N 0°02'39.13" W		
	Tangent Length:	239.71		

Project Name: Canal Rd Alignments
Description:
Horizontal Alignment Name: BL CALLAWAY DR S
Description:

		STATION	NORTHING	EASTING
	Element: Linear			
POB	( )	3+94.53	105584.171	1943500.391
POE	( )	10+44.94	106234.571	1943504.603
	Tangent Direction:	N 0°22'15.75" E		
	Tangent Length:	650.41		

Project Name: Canal Rd Alignments
Description:
Horizontal Alignment Name: BL TRAIL CONNECTION
Description:
Style: CI Construction

		STATION	NORTHING	EASTING
	Element: Linear			
POB	( )	200+00.00	105626.767	1943500.666
PC	( )	200+30.42	105626.522	1943531.082
	Tangent Direction:	S 89°32'17.98" E		
	Tangent Length:	30.42		
	Element: Circular			
PC	( )	200+30.42	105626.522	1943531.082
PI	( )	200+34.42	105626.490	1943535.085
CC	( )		105601.523	1943530.880
PRC	( )	200+38.36	105625.210	1943538.878
	Radius:	25.00		
	Delta:	18°11'41.54" Right		
	Degree of Curvature(Arc):	229°10'59.22"		
	Length:	7.94		
	Tangent:	4.00		
	Chord:	7.91		
	Middle Ordinate:	0.31		
	External:	0.32		
	Tangent Direction:	S 89°32'17.98" E		
	Radial Direction:	S 0°27'42.02" W		
	Chord Direction:	S 80°26'27.21" E		
	Radial Direction:	S 18°39'23.56" W		
	Tangent Direction:	S 71°20'36.44" E		
	Element: Circular			
PRC	( )	200+38.36	105625.210	1943538.878
PI	( )	200+50.37	105621.368	1943550.256
CC	( )		105696.269	1943562.870
PT	( )	200+62.17	105621.271	1943562.266
	Radius:	75.00		
	Delta:	18°11'41.54" Left		
	Degree of Curvature(Arc):	76°23'39.74"		
	Length:	23.82		
	Tangent:	12.01		
	Chord:	23.72		
	Middle Ordinate:	0.94		
	External:	0.96		
	Tangent Direction:	S 71°20'36.44" E		
	Radial Direction:	S 18°39'23.56" W		
	Chord Direction:	S 80°26'27.21" E		
	Radial Direction:	S 0°27'42.02" W		
	Tangent Direction:	S 89°32'17.98" E		
	Element: Linear			
PT	( )	200+62.17	105621.271	1943562.266
PC	( )	204+03.18	105618.523	1943903.262
	Tangent Direction:	S 89°32'17.98" E		
	Tangent Length:	341.01		
	Element: Circular			
PC	( )	204+03.18	105618.523	1943903.262
PI	( )	204+10.75	105618.462	1943910.835
CC	( )		105633.523	1943903.382
PT	( )	204+17.21	105624.520	1943915.380
	Radius:	15.00		
	Delta:	53°34'44.93" Left		
	Degree of Curvature(Arc):	381°58'18.71"		
	Length:	14.03		
	Tangent:	7.57		
	Chord:	13.52		
	Middle Ordinate:	1.61		
	External:	1.80		
	Tangent Direction:	S 89°32'17.98" E		
	Radial Direction:	S 0°27'42.02" W		
	Chord Direction:	N 63°40'19.55" E		
	Radial Direction:	S 53°07'02.91" E		
	Tangent Direction:	N 36°52'57.09" E		
	Element: Linear			
PT	( )	204+17.21	105624.520	1943915.380
PC	( )	205+02.94	105693.093	1943966.833
	Tangent Direction:	N 36°52'57.09" E		
	Tangent Length:	85.73		

		STATION	NORTHING	EASTING
	Element: Circular			
PC	( )	205+02.94	105693.093	1943966.833
PI	( )	205+11.16	105699.674	1943971.772
CC	( )		105648.079	1944026.823
PT	( )	205+19.33	105705.028	1943978.020
	Radius:	75.00		
	Delta:	12°31'17.99" Right		
	Degree of Curvature(Arc):	76°23'39.74"		
	Length:	16.39		
	Tangent:	8.23		
	Chord:	16.36		
	Middle Ordinate:	0.45		
	External:	0.45		
	Tangent Direction:	N 36°52'57.09" E		
	Radial Direction:	S 53°07'02.91" E		
	Chord Direction:	N 43°08'36.08" E		
	Radial Direction:	S 40°35'44.92" E		
	Tangent Direction:	N 49°24'15.08" E		
	Element: Linear			
PT	( )	205+19.33	105705.028	1943978.020
PC	( )	205+48.02	105723.699	1943999.806
	Tangent Direction:	N 49°24'15.08" E		
	Tangent Length:	28.69		
	Element: Circular			
PC	( )	205+48.02	105723.699	1943999.806
PI	( )	205+57.89	105730.124	1944007.304
CC	( )		105780.648	1943951.003
PT	( )	205+67.65	105738.271	1944012.883
	Radius:	75.00		
	Delta:	15°00'00.00" Left		
	Degree of Curvature(Arc):	76°23'39.74"		
	Length:	19.63		
	Tangent:	9.87		
	Chord:	19.58		
	Middle Ordinate:	0.64		
	External:	0.65		
	Tangent Direction:	N 49°24'15.08" E		
	Radial Direction:	S 40°35'44.92" E		
	Chord Direction:	N 41°54'15.08" E		
	Radial Direction:	S 55°35'44.92" E		
	Tangent Direction:	N 34°24'15.08" E		
	Element: Linear			
PT	( )	205+67.65	105738.271	1944012.883
PC	( )	205+83.30	105751.181	1944021.724
	Tangent Direction:	N 34°24'15.08" E		
	Tangent Length:	15.65		
	Element: Circular			
PC	( )	205+83.30	105751.181	1944021.724
PI	( )	205+90.20	105756.869	1944025.619
CC	( )		105708.804	1944083.605
PT	( )	205+97.05	105761.751	1944030.486
	Radius:	75.00		
	Delta:	10°30'09.92" Right		
	Degree of Curvature(Arc):	76°23'39.74"		
	Length:	13.75		
	Tangent:	6.89		
	Chord:	13.73		
	Middle Ordinate:	0.31		
	External:	0.32		
	Tangent Direction:	N 34°24'15.08" E		
	Radial Direction:	S 55°35'44.92" E		
	Chord Direction:	N 39°39'20.04" E		
	Radial Direction:	S 45°05'35.00" E		
	Tangent Direction:	N 44°54'25.00" E		
	Element: Linear			
PT	( )	205+97.05	105761.751	1944030.486
PC	( )	206+15.78	105775.019	1944043.711
	Tangent Direction:	N 44°54'25.00" E		
	Tangent Length:	18.73		
	Element: Circular			
PC	( )	206+15.78	105775.019	1944043.711
PI	( )	206+46.85	105797.022	1944065.642
CC	( )		105827.966	1943990.592
PT	( )	206+74.69	105828.088	1944065.591
	Radius:	75.00		
	Delta:	45°00'00.00" Left		
	Degree of Curvature(Arc):	76°23'39.74"		
	Length:	58.90		
	Tangent:	31.07		
	Chord:	57.40		
	Middle Ordinate:	5.71		
	External:	6.18		
	Tangent Direction:	N 44°54'25.00" E		
	Radial Direction:	S 45°05'35.00" E		
	Chord Direction:	N 22°24'25.00" E		
	Radial Direction:	N 89°54'25.00" E		
	Tangent Direction:	N 0°05'35.00" W		
	Element: Linear			
PT	( )	206+74.69	105828.088	1944065.591
PC	( )	210+09.07	106162.466	1944065.048
	Tangent Direction:	N 0°05'35.00" W		
	Tangent Length:	334.38		
	Element: Circular			
PC	( )	210+09.07	106162.466	1944065.048
PI	( )	210+34.69	106188.087	1944065.007
CC	( )		106162.515	1944095.048
PT	( )	210+51.48	106192.138	1944090.305
	Radius:	30.00		
	Delta:	80°59'42.60" Right		
	Degree of Curvature(Arc):	190°59'09.35"		
	Length:	42.41		
	Tangent:	25.62		
	Chord:	38.96		
	Middle Ordinate:	7.19		
	External:	9.45		
	Tangent Direction:	N 0°05'35.00" W		
	Radial Direction:	N 89°54'25.00" E		
	Chord Direction:	N 40°24'16.30" E		
	Radial Direction:	S 9°05'52.40" E		
	Tangent Direction:	N 80°54'07.60" E		
	Element: Linear			
PT	( )	210+51.48	106192.138	1944090.305
POE	( )	210+61.48	106193.719	1944100.179
	Tangent Direction:	N 80°54'07.60" E		
	Tangent Length:	10.00		

SHEET NO. : 1-K

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

HORIZONTAL ALIGNMENT DATA SHEET

PREPARED BY : thompson ENGINEERING
THOMPSON ENGINEERING, INC.
1970 GAUSS BLVD., SUITE 1
ORANGE BEACH, AL 36561
(251) 378-6980

SCALE: --
DRAWN BY: --
CHECKED BY: --
APPROVED BY: --
DATE : DEC 2021
JOB NO. : 20-1101-0085
REVISION NO. : --

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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Project Name: Canal Rd Alignments
Description:
Horizontal Alignment Name: BL NORTH ACCESS
Description:

		STATION	NORTHING	EASTING
Element: Linear				
POB	( )	26+42.15	106229.846	1944319.334
POE	( )	31+71.71	106759.404	1944319.848
Tangent Direction:		N 0°03'20.09" E		
Tangent Length:		529.56		

Project Name: Canal Rd Alignments
Description:
Horizontal Alignment Name: BL BAY CIR W
Description:

		STATION	NORTHING	EASTING
Element: Linear				
POB	( )	60+50.00	106267.968	1945470.657
POE	( )	62+73.47	106491.405	1945466.544
Tangent Direction:		N 1°03'16.24" W		
Tangent Length:		223.47		

Project Name: Canal Rd Alignments
Description:
Horizontal Alignment Name: BL SURREY LN
Description:

		STATION	NORTHING	EASTING
Element: Linear				
POB	( )	71+09.36	106120.252	1945876.570
PC	( )	72+09.36	106220.247	1945875.526
Tangent Direction:		N 0°35'54.72" W		
Tangent Length:		100.00		
Element: Circular				
PC	( )	72+09.36	106220.247	1945875.526
PI	( )	72+41.36	106252.244	1945875.191
CC	( )		106215.755	1945445.549
PCC	( )	72+73.24	106283.839	1945870.125
Radius:		430.00		
Delta:		8°30'42.32" Left		
Degree of Curvature(Arc):		13°19'28.56"		
Length:		63.88		
Tangent:		32.00		
Chord:		63.82		
Middle Ordinate:		1.19		
External:		1.19		
Tangent Direction:		N 0°35'54.72" W		
Radial Direction:		N 89°24'05.28" E		
Chord Direction:		N 4°51'15.87" W		
Radial Direction:		N 80°53'22.97" E		
Tangent Direction:		N 9°06'37.03" W		
Element: Circular				
PCC	( )	72+73.24	106283.839	1945870.125
PI	( )	73+11.56	106321.679	1945864.057
CC	( )		106239.150	1945591.445
PT	( )	73+49.42	106356.530	1945848.119
Radius:		282.24		
Delta:		15°27'53.52" Left		
Degree of Curvature(Arc):		20°18'01.35"		
Length:		76.18		
Tangent:		38.32		
Chord:		75.95		
Middle Ordinate:		2.57		
External:		2.59		
Tangent Direction:		N 9°06'37.03" W		
Radial Direction:		N 80°53'22.97" E		
Chord Direction:		N 16°50'33.79" W		
Radial Direction:		N 65°25'29.45" E		
Tangent Direction:		N 24°34'30.55" W		

Project Name: Canal Rd Alignments
Description:
Horizontal Alignment Name: BL BAY CIR E
Description:
Style: CI Construction

		STATION	NORTHING	EASTING
Element: Linear				
POB	( )	80+50.00	106526.680	1946352.435
POE	( )	83+31.13	106807.750	1946346.631
Tangent Direction:		N 1°10'58.61" W		
Tangent Length:		281.13		

Project Name: Canal Rd Alignments
Description:
Horizontal Alignment Name: BL WASHINGTON BLVD
Description:

		STATION	NORTHING	EASTING
Element: Linear				
POB	( )	100+50.00	106900.532	1947451.961
PC	( )	100+94.34	106944.759	1947448.803
Tangent Direction:		N 4°05'04.02" W		
Tangent Length:		44.34		
Element: Circular				
PC	( )	100+94.34	106944.759	1947448.803
PI	( )	101+63.41	107013.656	1947443.883
CC	( )		107177.958	1950714.532
PT	( )	102+32.46	107082.699	1947441.874
Radius:		3274.04		
Delta:		2°25'01.82" Right		
Degree of Curvature(Arc):		1°45'00.00"		
Length:		138.12		
Tangent:		69.07		
Chord:		138.11		
Middle Ordinate:		0.73		
External:		0.73		
Tangent Direction:		N 4°05'04.02" W		
Radial Direction:		N 85°54'55.98" E		
Chord Direction:		N 2°52'33.11" W		
Radial Direction:		N 88°19'57.79" E		
Tangent Direction:		N 1°40'02.21" W		
Element: Linear				
PT	( )	102+32.46	107082.699	1947441.874
POE	( )	103+18.17	107168.369	1947439.380
Tangent Direction:		N 1°40'02.21" W		
Tangent Length:		85.71		

Project Name: Canal Rd Alignments
Description:
Horizontal Alignment Name: BL MAPLE ST
Description:

		STATION	NORTHING	EASTING
Element: Linear				
POB	( )	120+50.00	107049.715	1948096.264
PC	( )	120+90.26	107089.960	1948095.334
Tangent Direction:		N 1°19'23.25" W		
Tangent Length:		40.26		
Element: Circular				
PC	( )	120+90.26	107089.960	1948095.334
PI	( )	121+00.77	107100.471	1948095.091
CC	( )		107091.115	1948145.321
PRC	( )	121+10.98	107110.190	1948099.102
Radius:		50.00		
Delta:		23°45'00.61" Right		
Degree of Curvature(Arc):		114°35'29.61"		
Length:		20.73		
Tangent:		10.51		
Chord:		20.58		
Middle Ordinate:		1.07		
External:		1.09		
Tangent Direction:		N 1°19'23.25" W		
Radial Direction:		N 88°40'36.75" E		
Chord Direction:		N 10°33'07.05" E		
Radial Direction:		S 67°34'22.64" E		
Tangent Direction:		N 22°25'37.36" E		
Element: Circular				
PRC	( )	121+10.98	107110.190	1948099.102
PI	( )	121+21.05	107119.498	1948102.944
CC	( )		107129.265	1948052.884
PT	( )	121+30.86	107129.568	1948102.883
Radius:		50.00		
Delta:		22°46'24.80" Left		
Degree of Curvature(Arc):		114°35'29.61"		
Length:		19.87		
Tangent:		10.07		
Chord:		19.74		
Middle Ordinate:		0.98		
External:		1.00		
Tangent Direction:		N 22°25'37.36" E		
Radial Direction:		S 67°34'22.64" E		
Chord Direction:		N 11°02'24.96" E		
Radial Direction:		N 89°39'12.56" E		
Tangent Direction:		N 0°20'47.44" W		
Element: Linear				
PT	( )	121+30.86	107129.568	1948102.883
POE	( )	123+04.44	107303.145	1948101.834
Tangent Direction:		N 0°20'47.44" W		
Tangent Length:		173.58		

Project Name: Canal Rd Alignments
Description:
Horizontal Alignment Name: BL WALKER LN
Description:

		STATION	NORTHING	EASTING
Element: Linear				
POB	( )	130+50.00	107075.130	1949247.773
POE	( )	133+02.39	107327.520	1949246.254
Tangent Direction:		N 0°20'41.42" W		
Tangent Length:		252.39		

Project Name: Canal Rd Alignments
Description:
Horizontal Alignment Name: BL WILSON BLVD
Description:

		STATION	NORTHING	EASTING
Element: Linear				
POB	( )	140+50.00	107081.290	1949955.513
POE	( )	142+88.47	107319.753	1949957.355
Tangent Direction:		N 0°26'33.07" E		
Tangent Length:		238.47		

Project Name: Canal Rd Alignments
Description:
Horizontal Alignment Name: BL WILSON BLVD S
Description:

		STATION	NORTHING	EASTING
Element: Linear				
POB	( )	138+09.28	106840.594	1949957.783
PI	( )	139+01.60	106932.906	1949958.277
Tangent Direction:		N 0°18'23.80" E		
Tangent Length:		92.31		
Element: Linear				
PI	( )	139+01.60	106932.906	1949958.277
POE	( )	140+50.00	107081.298	1949956.443
Tangent Direction:		N 0°42'29.60" W		
Tangent Length:		148.40		

SHEET NO. : 1-L

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

HORIZONTAL ALIGNMENT DATA SHEET

REVISION NO. : --
JOB NO. : 20-1101-0085
DATE : DEC 2021
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
4701 MAIN STREET, SUITE 4
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

NOTE: ALL ITEMS OF WORK PERFORMED ON CITY PROPERY AND OUTSIDE OF CANAL ROAD RIGHT-OF-WAY SHALL BE MEASURED AND PAID FOR UNDER THE CITY PROJECT PAY ITEMS AND EXCLUDED FROM THE RESTORE GRANT PROJECT PAY ITEMS.

PROJECT NOTES

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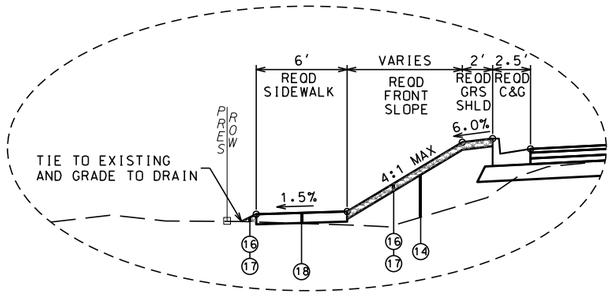
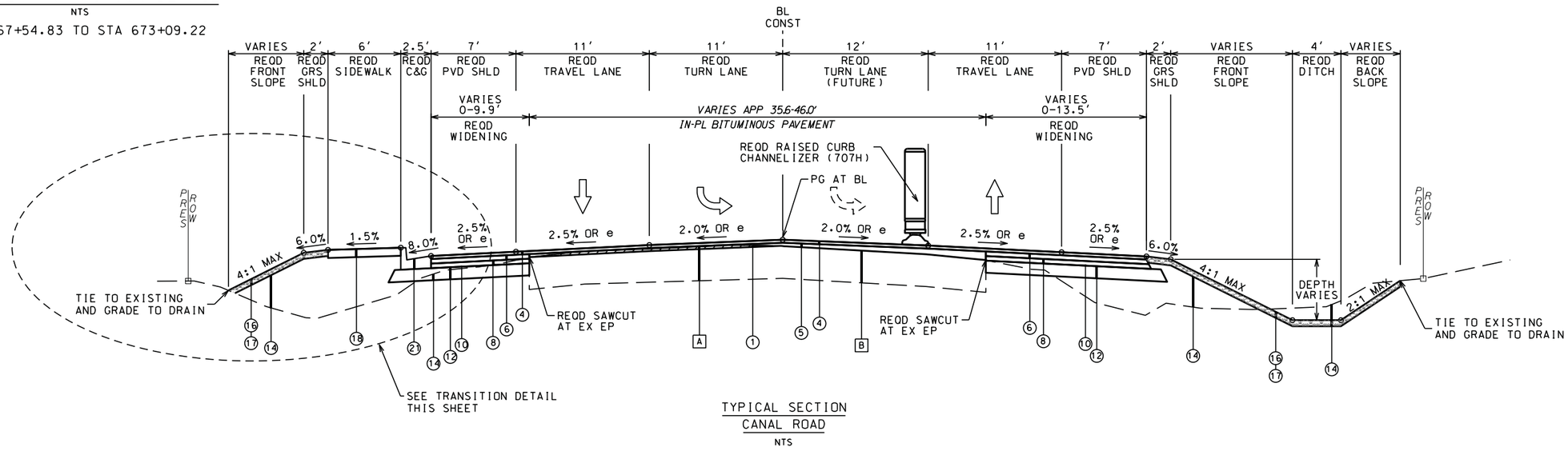


SIDEWALK TRANSITION DETAIL

NTS

STA 667+54.83 TO STA 673+09.22



TYPICAL SECTION

CANAL ROAD

NTS

SR-161 (BEGIN PAVING & PROFILE GRADE CORRECTIONS) TO STA 673+09.22

	EXISTING MATERIALS LEGEND
A	IN PLACE: BITUMINOUS PAVEMENT (RETAIN, PLANE, LEVEL AND OVERLAY)
B	IN PLACE: BITUMINOUS PAVEMENT (RETAIN AND OVERLAY)
	REQUIRED MATERIALS LEGEND
(1)	REOD: (408A-052) PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)
(4)	REOD: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
(5)	REOD: (424A-366) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 0-250 LBS/SY)
(6)	REOD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(8)	REOD: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(10)	REOD: (401A-000) BITUMINOUS TREATMENT A
(12)	REOD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
(14)	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR
	(210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
(16)	REOD: (650A-000) TOPSOIL
(17)	REOD: (654A-001) SOLID SODDING (BERMUDA)
(18)	REOD: (618A-000) CONCRETE SIDEWALK, 4" THICK
(20)	REOD: (623C-000) COMBINATION CURB & GUTTER, TYPE C

NOTES:

1. THE IN-PLACE PAVED SHOULDERS IN THIS SECTION WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
2. SEE PAVING LAYOUTS ON SHEETS 20-21.
3. SEE STRIPING LAYOUTS ON SHEETS 30-31.

SHEET NO.: 2

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TYPICAL SECTIONS

JOB NO.: 20-1101-0085

DATE: DEC 2021

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
25761 MARCK STREET, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

PREPARED BY:

DRAWN BY: -- CHECKED BY: -- APPROVED BY: -- DATE: -- REVISION NO.: --

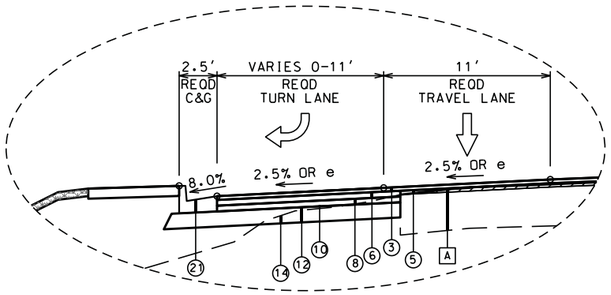
SCALE: --

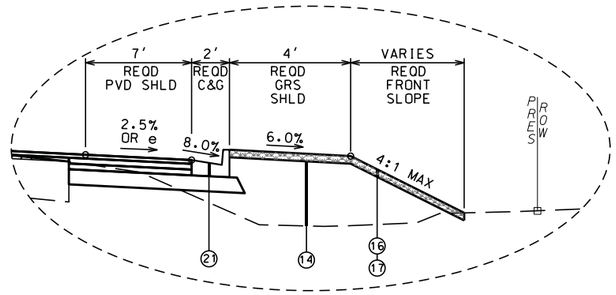
REVISION NO.	DESCRIPTION	DATE	BY:

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THE PROJECT AND IS NOT TO BE LOANED, REPRODUCED, OR USED WITHOUT THE EXPRESS WRITTEN CONSENT OF THOMPSON ENGINEERING. NO REPRODUCTIONS TO BE MADE BY ANY PROCESS WHATSOEVER, NOR ANY PART THEREOF TO BE LOANED, OR ANY USE WHATSOEVER TO BE MADE BY ANY PERSON, FIRM OR CORPORATION WITHOUT THE EXPRESS PERMISSION AND APPROVAL IN WRITING OF THOMPSON ENGINEERING, INC.

RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

NOTE: ALL ITEMS OF WORK PERFORMED ON CITY PROPERY AND OUTSIDE OF CANAL ROAD RIGHT-OF-WAY SHALL BE MEASURED AND PAID FOR UNDER THE CITY PROJECT PAY ITEMS AND EXCLUDED FROM THE RESTORE GRANT PROJECT PAY ITEMS.





TURN LANE DETAIL

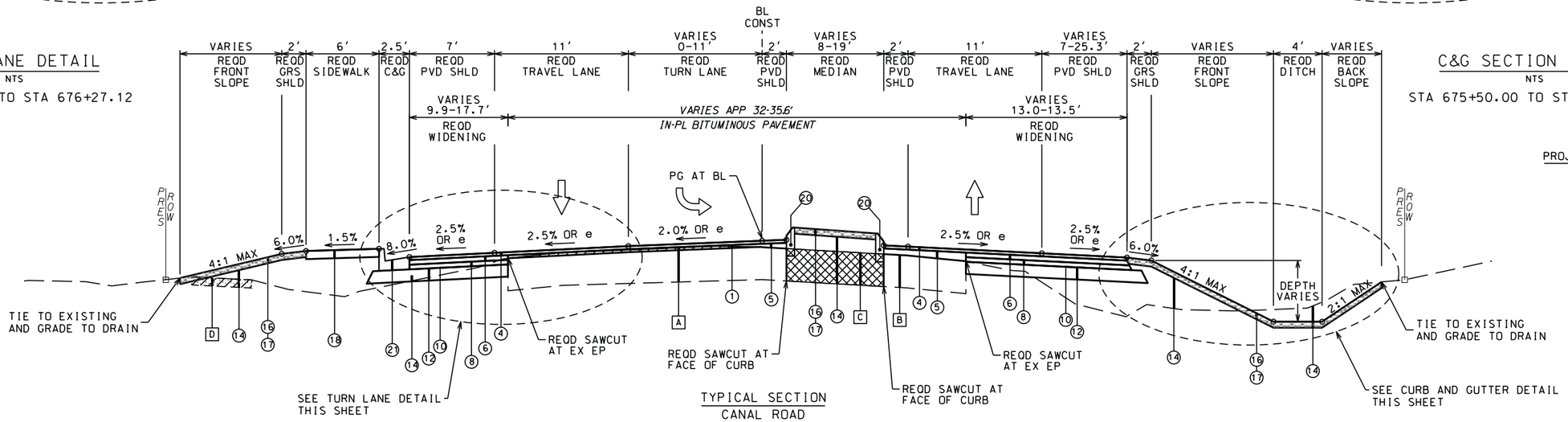
NTS

CALLAWAY DR TO STA 676+27.12

C&G SECTION DETAIL

NTS

STA 675+50.00 TO STA 677+89.95



TYPICAL SECTION CANAL ROAD

NTS

STA 673+09.22 (BEGIN RAISED MEDIAN) TO STA 677+89.95

PROJECT NOTES

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	EXISTING MATERIALS LEGEND
A	IN PLACE: BITUMINOUS PAVEMENT (RETAIN, PLANE, LEVEL AND OVERLAY)
B	IN PLACE: BITUMINOUS PAVEMENT (RETAIN AND OVERLAY)
C	IN PLACE: BITUMINOUS PAVEMENT (SAWCUT AND REMOVE)
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)
	REQUIRED MATERIALS LEGEND
1	REOD: (408A-052) PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)
4	REOD: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
5	REOD: (424A-366) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 0-250 LBS/SY)
6	REOD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
8	REOD: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
10	REOD: (401A-000) BITUMINOUS TREATMENT A
12	REOD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
14	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR
	(210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
16	REOD: (650A-000) TOPSOIL
17	REOD: (654A-001) SOLID SODDING (BERMUDA)
18	REOD: (618A-000) CONCRETE SIDEWALK, 4" THICK
20	REOD: (623B-000) CONCRETE CURB, TYPE N
21	REOD: (623C-003) COMBINATION CURB & GUTTER, TYPE C

NOTES:

1. THE IN-PLACE PAVED SHOULDERS IN THIS SECTION WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
2. SEE PAVING LAYOUTS ON SHEET 21.
3. SEE STRIPING LAYOUTS ON SHEET 31.

SHEET NO.: 2-A

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TYPICAL SECTIONS

JOB NO.: 20-1101-0085
DATE: DEC 2021
REVISION NO.: --
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
251 MAGNOLIA AVENUE, SUITE 252
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

PREPARED BY:

SCALE: --

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

NOTE: ALL ITEMS OF WORK PERFORMED ON CITY PROPERY AND OUTSIDE OF CANAL ROAD RIGHT-OF-WAY SHALL BE MEASURED AND PAID FOR UNDER THE CITY PROJECT PAY ITEMS AND EXCLUDED FROM THE RESTORE GRANT PROJECT PAY ITEMS.

PROJECT NOTES

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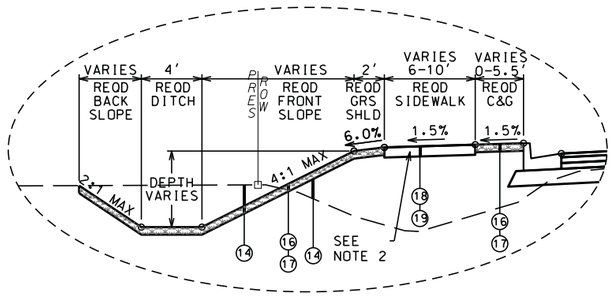
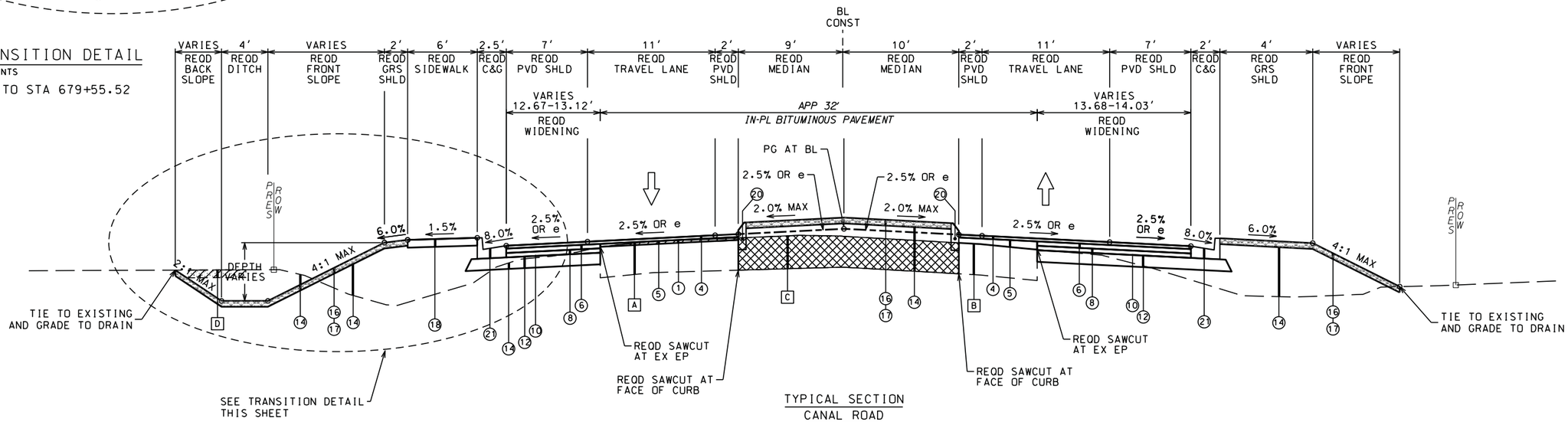


SIDEWALK TRANSITION DETAIL

NTS

STA 678+76.21 TO STA 679+55.52



TYPICAL SECTION CANAL ROAD

NTS

STA 677+89.95 TO STA 679+55.52

	EXISTING MATERIALS LEGEND
A	IN PLACE: BITUMINOUS PAVEMENT (RETAIN, PLANE, LEVEL AND OVERLAY)
B	IN PLACE: BITUMINOUS PAVEMENT (RETAIN AND OVERLAY)
C	IN PLACE: BITUMINOUS PAVEMENT (SAWCUT AND REMOVE)
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)
	REQUIRED MATERIALS LEGEND
(1)	REQD: (408A-052) PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)
(4)	REQD: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
(5)	REQD: (424A-366) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 0-250 LBS/SY)
(6)	REQD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(8)	REQD: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(10)	REQD: (401A-000) BITUMINOUS TREATMENT A
(12)	REQD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
(14)	REQD: (210A-000) UNCLASSIFIED EXCAVATION OR
	(210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
(16)	REQD: (650A-000) TOPSOIL
(17)	REQD: (654A-001) SOLID SODDING (BERMUDA)
(18)	REQD: (618A-000) CONCRETE SIDEWALK, 4" THICK
(19)	REQD: (618A-001) CONCRETE SIDEWALK, 6" THICK
(20)	REQD: (623B-000) CONCRETE CURB, TYPE N
(21)	REQD: (623C-003) COMBINATION CURB & GUTTER, TYPE C

NOTES:

1. THE IN-PLACE PAVED SHOULDERS IN THIS SECTION WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
2. CONCRETE SIDEWALK THAT IS SIX (6) FEET OR LESS IN WIDTH SHALL BE 4" THICK AND PAID FOR AS ITEM 618A-000. CONCRETE SIDEWALK THAT EXCEEDS SIX (6) FEET IN WIDTH SHALL BE 6" THICK AND PAID FOR AS ITEM NO. 618A-001.
3. SEE PAVING LAYOUTS ON SHEETS 21-22.
4. SEE STRIPING LAYOUTS ON SHEETS 31-32.

SHEET NO.: 2-B

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TYPICAL SECTIONS

JOB NO.: 20-1101-0085
DATE: DEC 2021
REVISION NO.: --
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY:

THOMPSON ENGINEERING, INC.
1731 GULF BLVD, SUITE
ORANGE BEACH, ALABAMA 36561
(251) 370-6990

thompson ENGINEERING

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

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PROJECT NOTES

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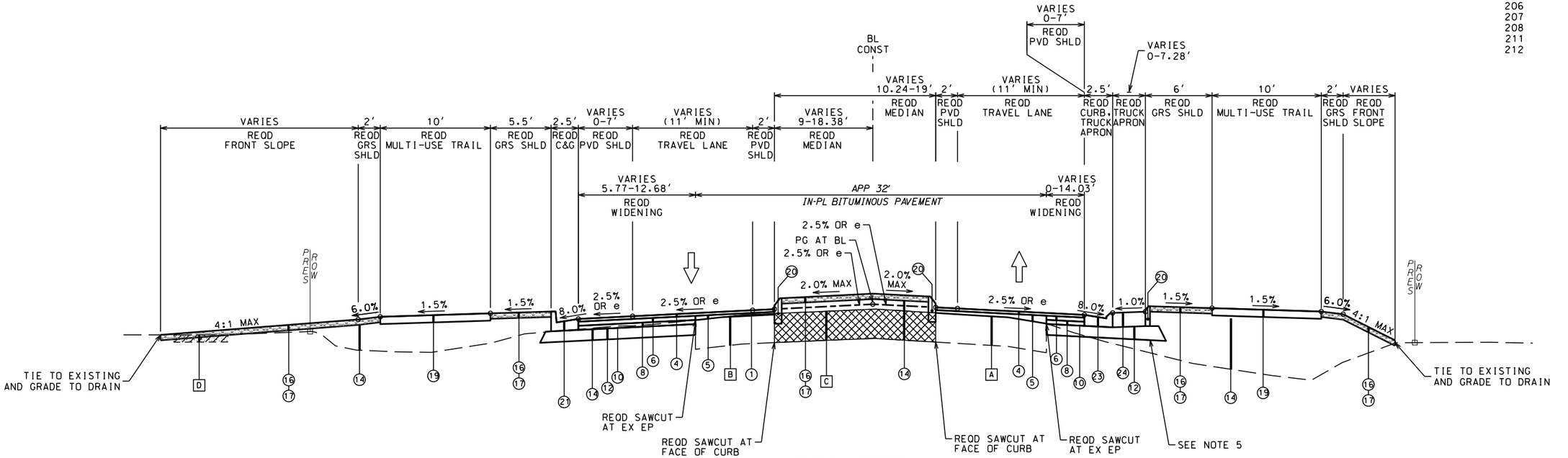


TYPICAL SECTION
CANAL ROAD
NTS

STA 679+55.52 TO ROUNDABOUT

	EXISTING MATERIALS LEGEND
A	IN PLACE: BITUMINOUS PAVEMENT (RETAIN, PLANE, LEVEL AND OVERLAY)
B	IN PLACE: BITUMINOUS PAVEMENT (RETAIN AND OVERLAY)
C	IN PLACE: BITUMINOUS PAVEMENT (SAWCUT AND REMOVE)
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)

	REQUIRED MATERIALS LEGEND
(1)	REQD: (408A-052) PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)
(4)	REQD: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
(5)	REQD: (424A-366) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 0-250 LBS/SY)
(6)	REQD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(8)	REQD: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(10)	REQD: (401A-000) BITUMINOUS TREATMENT A
(12)	REQD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
(14)	REQD: (210A-000) UNCLASSIFIED EXCAVATION OR
	(210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
(16)	REQD: (650A-000) TOPSOIL
(17)	REQD: (654A-001) SOLID SODDING (BERMUDA)
(19)	REQD: (618A-001) CONCRETE SIDEWALK, 6" THICK
(20)	REQD: (623B-000) CONCRETE CURB, TYPE N
(21)	REQD: (623C-000) COMBINATION CURB & GUTTER, TYPE C
(23)	REQD: (623B-151) CONCRETE CURB, TYPE TRUCK APRON
(24)	REQD: (450A-006) REINFORCED CEMENT CONCRETE PAVEMENT, 10 INCHES THICK

NOTES:

1. THE IN-PLACE PAVED SHOULDERS IN THIS SECTION WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
2. CONCRETE SIDEWALK THAT IS SIX (6) FEET OR LESS IN WIDTH SHALL BE 4" THICK AND PAID FOR AS ITEM 618A-000. CONCRETE SIDEWALK THAT EXCEEDS SIX (6) FEET IN WIDTH SHALL BE 6" THICK AND PAID FOR AS ITEM NO. 618A-001.
3. GRADE THE ROADBED AND PROVIDE ADDITIONAL THICKNESS ON CRUSHED AGGREGATE BASE COURSE LAYER AS NEEDED UNDER TRUCK APRONS IN ORDER TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE ROADBED. PAYMENT FOR ADDITIONAL THICKNESSES SHALL BE A SUBSIDIARY OBLIGATION OF PAY ITEM 301A-012.
4. SEE PAVING LAYOUTS ON SHEETS 21-22.
5. SEE STRIPING LAYOUTS ON SHEETS 31-32.

SHEET NO. : 2-C

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TYPICAL SECTIONS

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

thompson ENGINEERING

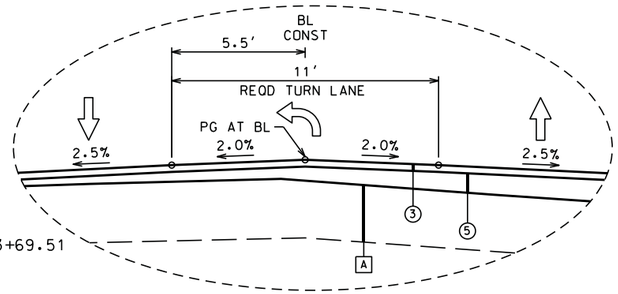
ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE USED IN WHOLE OR IN PART FOR ANY OTHER PROJECT WITHOUT THE EXPRESS WRITTEN CONSENT OF THOMPSON ENGINEERING. REPRODUCTION OF THESE DRAWINGS FOR ANY PURPOSE WITHOUT THE WRITTEN CONSENT OF THOMPSON ENGINEERING, INC. IS PROHIBITED. ANY REUSE, MODIFICATION OR ADAPTATION OF THESE DRAWINGS WITHOUT THE WRITTEN CONSENT OF THOMPSON ENGINEERING, INC. SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THOMPSON ENGINEERING, INC.

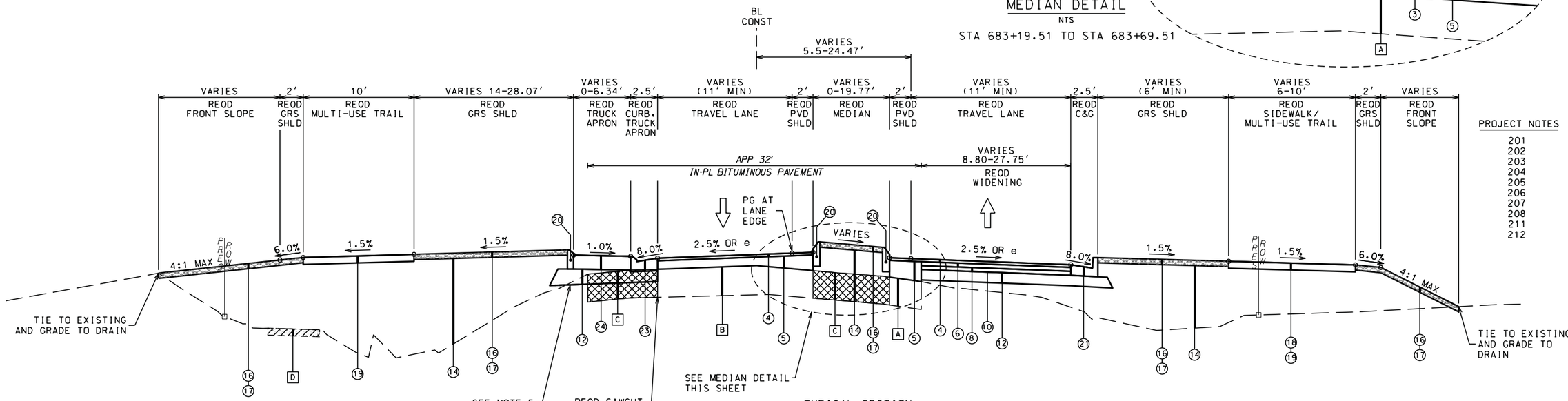
RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

NOTE: ALL ITEMS OF WORK PERFORMED ON CITY PROPERY AND OUTSIDE OF CANAL ROAD RIGHT-OF-WAY SHALL BE MEASURED AND PAID FOR UNDER THE CITY PROJECT PAY ITEMS AND EXCLUDED FROM THE RESTORE GRANT PROJECT PAY ITEMS.



MEDIAN DETAIL
NTS

STA 683+19.51 TO STA 683+69.51



TYPICAL SECTION
CANAL ROAD
NTS

ROUNDABOUT TO STA 683+69.51 (END RAISED MEDIAN)

PROJECT NOTES

201
202
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	EXISTING MATERIALS LEGEND
A	IN PLACE: BITUMINOUS PAVEMENT (RETAIN, PLANE, LEVEL AND OVERLAY)
B	IN PLACE: BITUMINOUS PAVEMENT (RETAIN AND OVERLAY)
C	IN PLACE: BITUMINOUS PAVEMENT (SAWCUT AND REMOVE)
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)
	REQUIRED MATERIALS LEGEND
4	REQD: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
5	REQD: (424A-366) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 0-250 LBS/SY)
6	REQD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
8	REQD: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
10	REQD: (401A-000) BITUMINOUS TREATMENT A
12	REQD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
14	REQD: (210A-000) UNCLASSIFIED EXCAVATION OR
	(210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
16	REQD: (650A-000) TOPSOIL
17	REQD: (654A-001) SOLID SODDING (BERMUDA)
18	REQD: (618A-000) CONCRETE SIDEWALK, 4" THICK
19	REQD: (618A-001) CONCRETE SIDEWALK, 6" THICK
20	REQD: (623B-000) CONCRETE CURB, TYPE N
21	REQD: (623C-000) COMBINATION CURB & GUTTER, TYPE C
23	REQD: (623B-151) CONCRETE CURB, TYPE TRUCK APRON
24	REQD: (450A-006) REINFORCED CEMENT CONCRETE PAVEMENT, 10 INCHES THICK

NOTES:

1. UNLESS REQUIRED FOR THE PAVING LAYOUT, THE IN-PLACE PAVED SHOULDERS IN THIS SECTION WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
2. CONCRETE SIDEWALK THAT IS SIX (6) FEET OR LESS IN WIDTH SHALL BE 4" THICK AND PAID FOR AS ITEM 618A-000. CONCRETE SIDEWALK THAT EXCEEDS SIX (6) FEET IN WIDTH SHALL BE 6" THICK AND PAID FOR AS ITEM NO. 618A-001.
3. GRADE THE ROADBED AND PROVIDE ADDITIONAL THICKNESS ON CRUSHED AGGREGATE BASE COURSE LAYER AS NEEDED UNDER TRUCK APRONS IN ORDER TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE ROADBED. PAYMENT FOR ADDITIONAL THICKNESSES SHALL BE A SUBSIDIARY OBLIGATION OF PAY ITEM 301A-012.
4. SEE PAVING LAYOUTS ON SHEETS 22-23.
5. SEE STRIPING LAYOUTS ON SHEETS 32-33.

SHEET NO. : 2-D

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TYPICAL SECTIONS

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
4334 MAIN STREET, SUITE 102
ORANGE BEACH, ALABAMA 36561
(251) 370-6990

thompson ENGINEERING

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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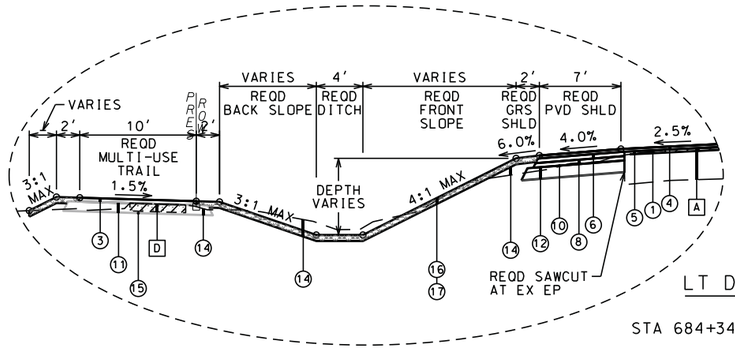
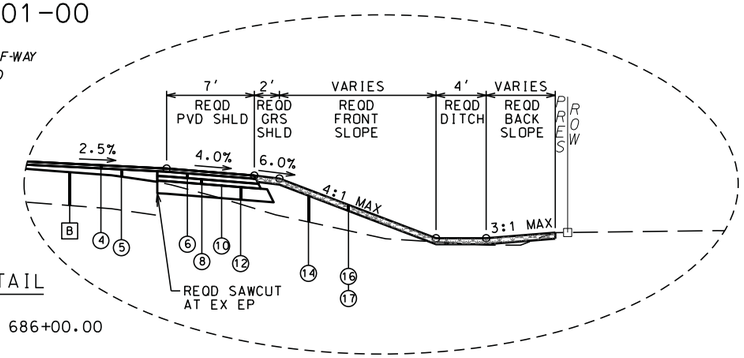
RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

NOTE: ALL ITEMS OF WORK PERFORMED ON CITY PROPERY AND OUTSIDE OF CANAL ROAD RIGHT-OF-WAY SHALL BE MEASURED AND PAID FOR UNDER THE CITY PROJECT PAY ITEMS AND EXCLUDED FROM THE RESTORE GRANT PROJECT PAY ITEMS.



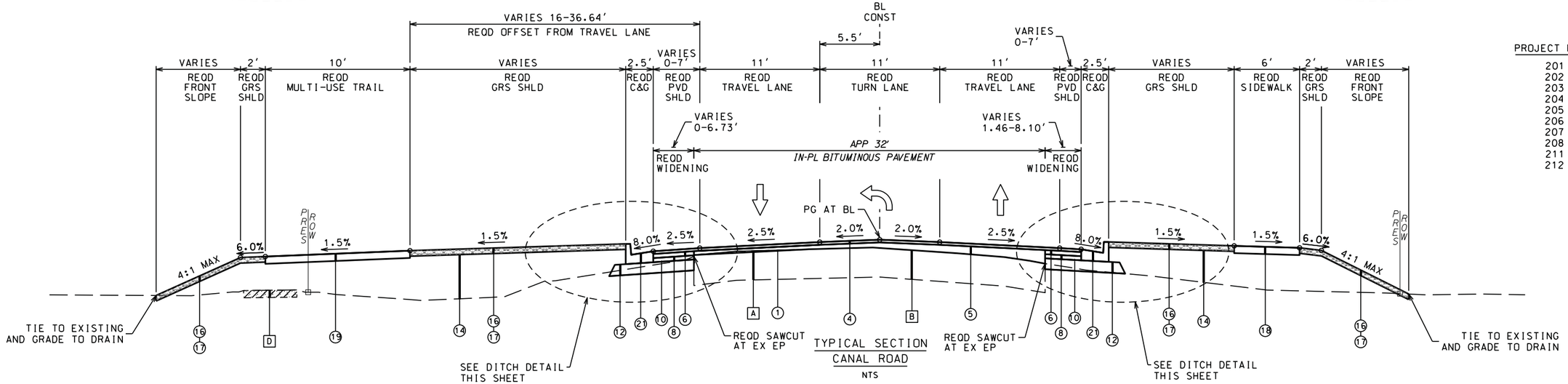
LT DITCH DETAIL
NTS

STA 684+34.51TO STA 686+00.00



RT DITCH DETAIL
NTS

STA 684+50.93 TO STA 686+00.00



TYPICAL SECTION
CANAL ROAD
NTS

STA 683+69.51 TO STA 686+00.00

PROJECT NOTES

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	EXISTING MATERIALS LEGEND
A	IN PLACE: BITUMINOUS PAVEMENT (RETAIN, PLANE, LEVEL AND OVERLAY)
B	IN PLACE: BITUMINOUS PAVEMENT (RETAIN AND OVERLAY)
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)
	REQUIRED MATERIALS LEGEND
3	REQD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (165 LBS/SY)
4	REQD: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
5	REQD: (424A-366) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 0-250 LBS/SY)
6	REQD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
8	REQD: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
10	REQD: (401A-000) BITUMINOUS TREATMENT A
11	REQD: (301A-008) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
12	REQD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
14	REQD: (210A-000) UNCLASSIFIED EXCAVATION OR
	(210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
15	REQD: (608A-000) SEPERATION GEOTEXTILE
16	REQD: (650A-000) TOPSOIL
17	REQD: (654A-001) SOLID SODDING (BERMUDA)
18	REQD: (618A-000) CONCRETE SIDEWALK, 4" THICK
19	REQD: (618A-001) CONCRETE SIDEWALK, 6" THICK
21	REQD: (623C-000) COMBINATION CURB & GUTTER, TYPE C

NOTES:

1. THE IN-PLACE PAVED SHOULDERS IN THIS SECTION WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
2. CONCRETE SIDEWALK THAT IS SIX (6) FEET OR LESS IN WIDTH SHALL BE 4" THICK AND PAID FOR AS ITEM 618A-000. CONCRETE SIDEWALK THAT EXCEEDS SIX (6) FEET IN WIDTH SHALL BE 6" THICK AND PAID FOR AS ITEM NO. 618A-001.
3. SEE PAVING LAYOUTS ON SHEET 23.
4. SEE STRIPING LAYOUTS ON SHEET 33.

SHEET NO. : 2-E

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TYPICAL SECTIONS

REVISION NO. : --
JOB NO. : 20-1101-0085
DATE : DEC 2021
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
1731 GULF STATES PARK ROAD, SUITE 252
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

thompson ENGINEERING

PREPARED BY: --
SCALE: --

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

NOTE: ALL ITEMS OF WORK PERFORMED ON CITY PROPERY AND OUTSIDE OF CANAL ROAD RIGHT-OF-WAY SHALL BE MEASURED AND PAID FOR UNDER THE CITY PROJECT PAY ITEMS AND EXCLUDED FROM THE RESTORE GRANT PROJECT PAY ITEMS.

PROJECT NOTES

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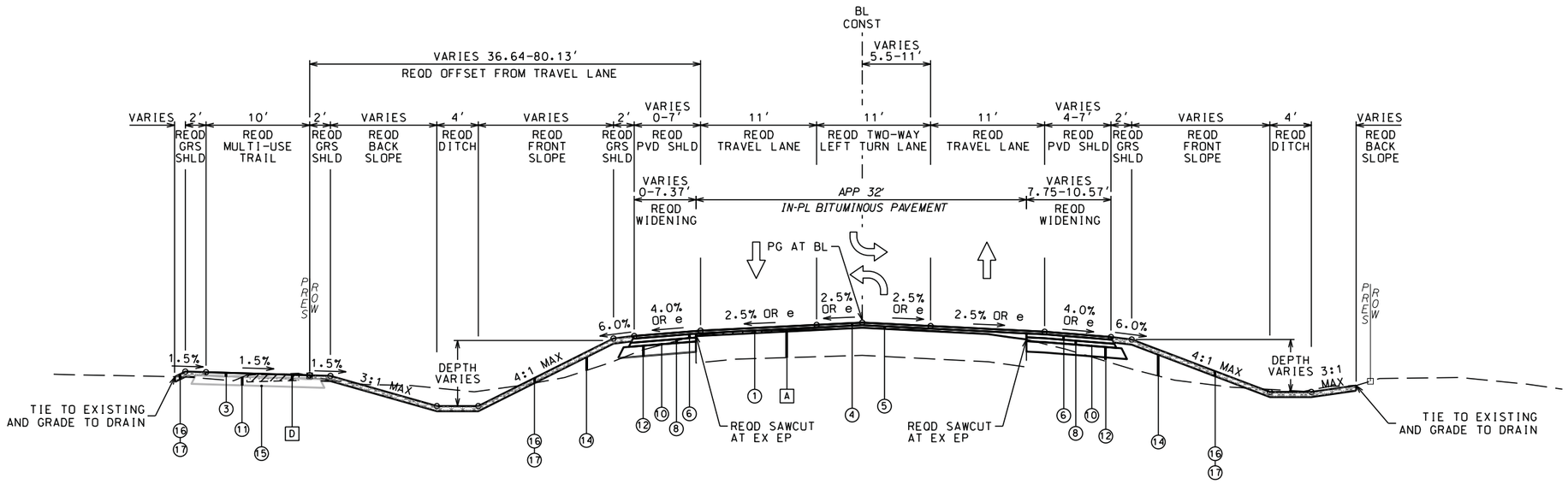

TYPICAL SECTION
CANAL ROAD
NTS

STA 686+00.00 (BEGIN LANE TRANSITION) TO STA 688+50.00 (END LANE TRANSITION & END PROFILE GRADE CORRECTIONS)

	EXISTING MATERIALS LEGEND
A	IN PLACE: BITUMINOUS PAVEMENT (RETAIN, PLANE, LEVEL AND OVERLAY)
B	IN PLACE: BITUMINOUS PAVEMENT (RETAIN AND OVERLAY)
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)
	REQUIRED MATERIALS LEGEND
(1)	REQD: (408A-052) PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)
(3)	REQD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (165 LBS/SY)
(4)	REQD: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
(5)	REQD: (424A-366) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 0-250 LBS/SY)
(6)	REQD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(8)	REQD: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(10)	REQD: (401A-000) BITUMINOUS TREATMENT A
(11)	REQD: (301A-008) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
(12)	REQD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
(14)	REQD: (210A-000) UNCLASSIFIED EXCAVATION OR
	(210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
(15)	REQD: (608A-000) SEPERATION GEOTEXTILE
(16)	REQD: (650A-000) TOPSOIL
(17)	REQD: (654A-001) SOLID SODDING (BERMUDA)

NOTES:

1. THE IN-PLACE PAVED SHOULDERS IN THIS SECTION WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
2. SEE PAVING LAYOUTS ON SHEET 23.
3. SEE STRIPING LAYOUTS ON SHEET 33.

SHEET NO.: 2-F

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TYPICAL SECTIONS

JOB NO.: 20-1101-0085
DATE: DEC 2021
REVISION NO.: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY: thompson ENGINEERING
THOMPSON ENGINEERING, INC.
1331 GULF BEACH HWY, SUITE 1
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

SCALE: --
DRAWN BY: --
CHECKED BY: --
APPROVED BY: --

REVISION NO. | DESCRIPTION | DATE | BY:

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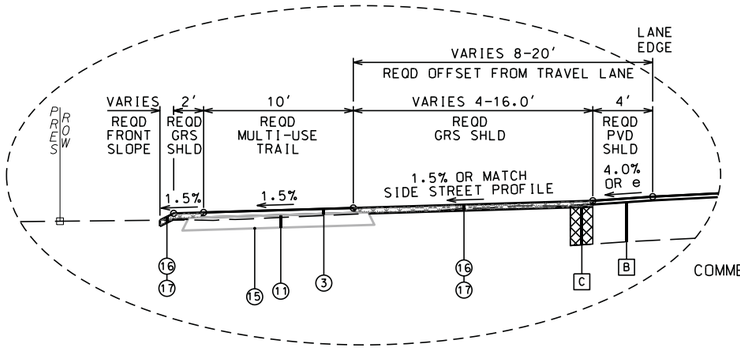
RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

NOTE: ALL ITEMS OF WORK PERFORMED ON CITY PROPERY AND OUTSIDE OF CANAL ROAD RIGHT-OF-WAY SHALL BE MEASURED AND PAID FOR UNDER THE CITY PROJECT PAY ITEMS AND EXCLUDED FROM THE RESTORE GRANT PROJECT PAY ITEMS.



TRAIL "BEND-OUT" DETAIL

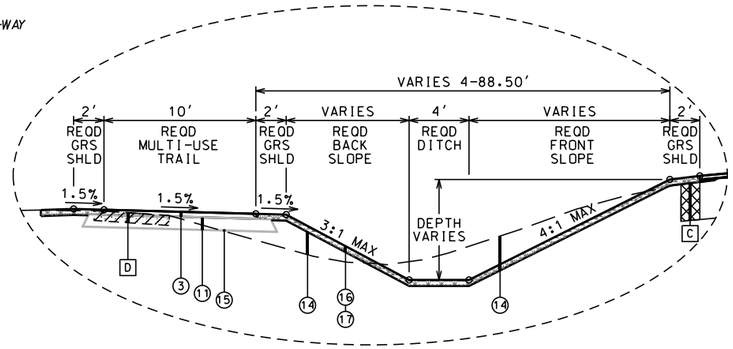
NTS

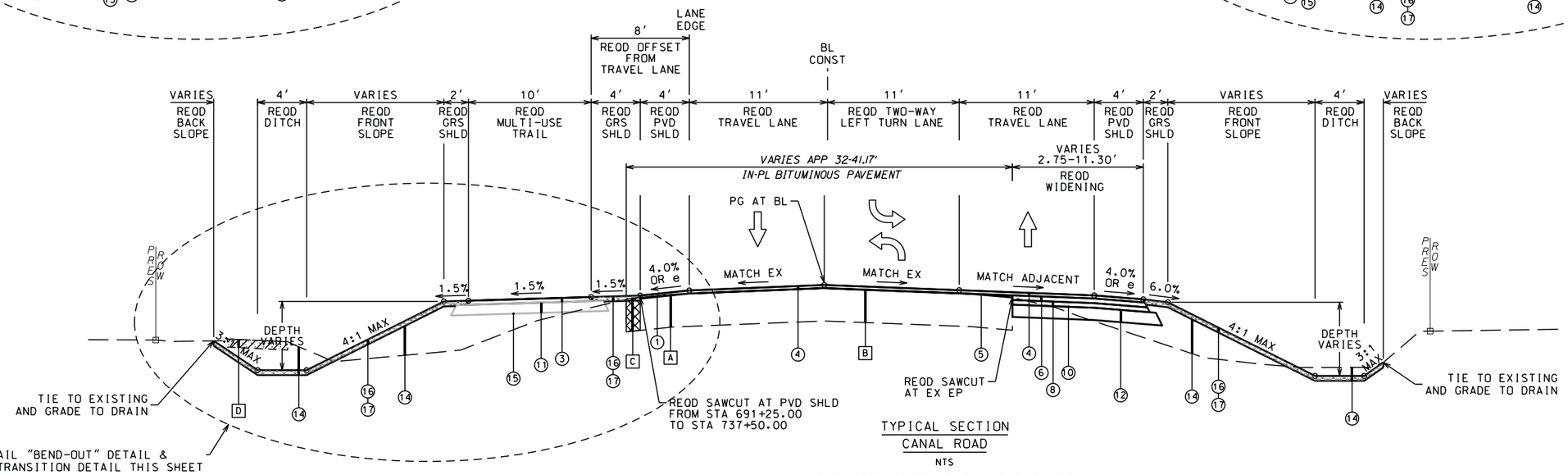
BAY CIRCLE W
BAY CIRCLE E
WASHINGTON BLVD
COMMERCIAL ACCESS AT SAM'S BAIT AND TACKLE

TRAIL TRANSITION DETAIL

NTS

STA 688+50.00 TO STA 691+00.00
STA 729+50.00 TO STA 732+31.00





TYPICAL SECTION
CANAL ROAD

NTS

STA 688+50.00 TO STA 732+31.00

PROJECT NOTES

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	EXISTING MATERIALS LEGEND
A	IN PLACE: BITUMINOUS PAVEMENT (RETAIN, PLANE, LEVEL AND OVERLAY)
B	IN PLACE: BITUMINOUS PAVEMENT (RETAIN AND OVERLAY)
C	IN PLACE: BITUMINOUS PAVEMENT (SAWCUT AND REMOVE)
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)
	REQUIRED MATERIALS LEGEND
(1)	REOD: (408A-052) PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)
(3)	REOD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (165 LBS/SY)
(4)	REOD: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
(5)	REOD: (424A-366) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 0-250 LBS/SY)
(6)	REOD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(8)	REOD: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(10)	REOD: (401A-000) BITUMINOUS TREATMENT A
(11)	REOD: (301A-008) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
(12)	REOD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
(14)	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR
	(210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
(15)	REOD: (608A-000) SEPERATION GEOTEXTILE
(16)	REOD: (650A-000) TOPSOIL
(17)	REOD: (654A-001) SOLID SODDING (BERMUDA)

NOTES:

1. THE IN-PLACE PAVED SHOULDER ON THE LT SIDE SHALL BE SAWCUT AND REMOVED TO MATCH THE PAVING LAYOUT FOR A 4' WIDE SHOULDER.
2. THE IN-PLACE PAVED SHOULDER ON THE RT SIDE WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
3. A 12' WIDE WOODEN BOARDWALK SHALL BE CONSTRUCTED IN PLACE OF THE 10' WIDE ASPHALT TRAIL FROM STA 731+15.00 TO STA 731+45.00. SEE DETAILS ON SHEETS ?-?.
4. SEE PAVING LAYOUTS ON SHEETS 23-25.
5. SEE STRIPING LAYOUTS ON SHEETS 33-35.

SHEET NO.: 2-G

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TYPICAL SECTIONS

JOB NO.: 20-1101-0085
DATE: DEC 2021
REVISION NO.: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

thompson ENGINEERING

DRAWN BY: --
CHECKED BY: --
APPROVED BY: --
PREPARED BY: --
SCALE: --

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE COPIED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE THOMPSON ENGINEERING REPRESENTATIVE TO WHOM IT WAS ISSUED. USE OF SUBJECT TO LICENSE, CITY OF ORANGE BEACH GENERAL USE.

RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

NOTE: ALL ITEMS OF WORK PERFORMED ON CITY PROPERY AND OUTSIDE OF CANAL ROAD RIGHT-OF-WAY SHALL BE MEASURED AND PAID FOR UNDER THE CITY PROJECT PAY ITEMS AND EXCLUDED FROM THE RESTORE GRANT PROJECT PAY ITEMS.

PROJECT NOTES

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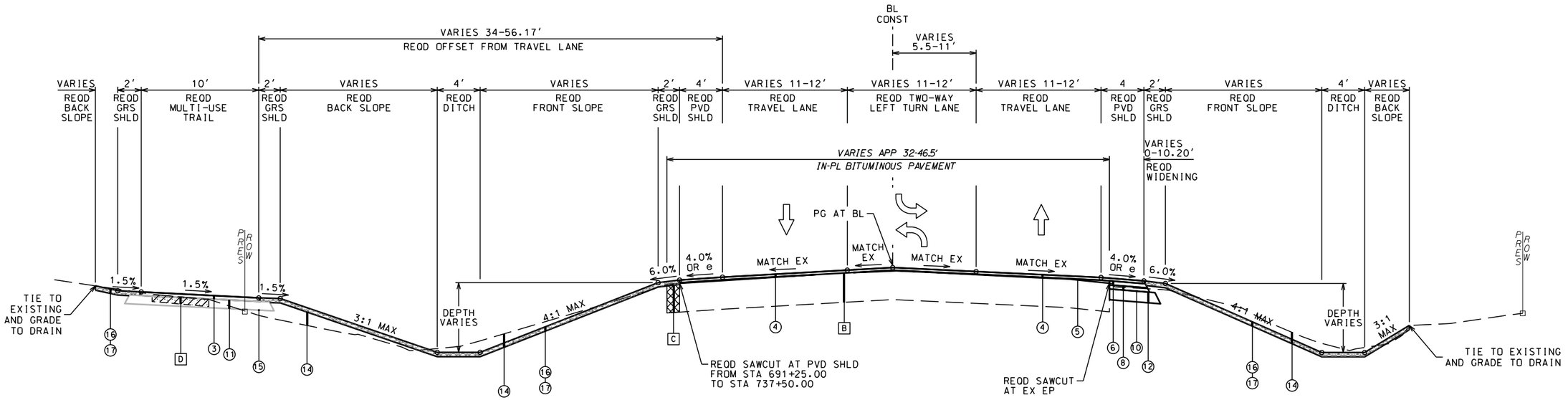

TYPICAL SECTION
CANAL ROAD
NTS

STA 732+31.00 (BEGIN LANE TRANSITION) TO STA 735+46.00 (END LANE TRANSITION)

	EXISTING MATERIALS LEGEND
B	IN PLACE: BITUMINOUS PAVEMENT (RETAIN AND OVERLAY)
C	IN PLACE: BITUMINOUS PAVEMENT (SAWCUT AND REMOVE)
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)
	REQUIRED MATERIALS LEGEND
(3)	REOD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (165 LBS/SY)
(4)	REOD: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
(5)	REOD: (424A-366) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 0-250 LBS/SY)
(6)	REOD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(8)	REOD: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
(10)	REOD: (401A-000) BITUMINOUS TREATMENT A
(11)	REOD: (301A-008) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
(12)	REOD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
(14)	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR
	(210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
(15)	REOD: (608A-000) SEPERATION GEOTEXTILE
(16)	REOD: (650A-000) TOPSOIL
(17)	REOD: (654A-001) SOLID SODDING (BERMUDA)

NOTES:

1. THE IN-PLACE PAVED SHOULDER ON THE LT SIDE SHALL BE SAWCUT AND REMOVED TO MATCH THE PAVING LAYOUT FOR A 4' WIDE SHOULDER.
2. THE IN-PLACE PAVED SHOULDER ON THE RT SIDE WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
3. SEE PAVING LAYOUTS ON SHEETS 25-26.
4. SEE STRIPING LAYOUTS ON SHEETS 35-36.

SHEET NO.: 2-H

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TYPICAL SECTIONS

JOB NO.: 20-1101-0085
DATE: DEC 2021
REVISION NO.: --
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY:

THOMPSON ENGINEERING, INC.
FISH RIVER STREET, SUITE 2-252
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

thompson ENGINEERING

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	BY:
REVISION NO.	DESCRIPTION	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	BY:
REVISION NO.	DESCRIPTION	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	BY:
REVISION NO.	DESCRIPTION	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:	BY:

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THE PROJECT AND IS NOT TO BE LOANED, REPRODUCED, OR USED WITHOUT THE EXPRESS WRITTEN CONSENT OF THOMPSON ENGINEERING. THE DRAWINGS ARE NOT TO BE CONSIDERED AS CONSTRUCTION DOCUMENTS UNLESS SIGNED AND SEALED BY A REGISTERED ENGINEER. THE DRAWINGS ARE SUBJECT TO REVISION AS REQUIRED TO APPROVED BY THE CITY, WHICHEVER IS GREATER. ANY USE, UNAUTHORIZED USE OR REUSE OF THESE DRAWINGS WITHOUT THE EXPRESS WRITTEN CONSENT OF THOMPSON ENGINEERING, INC. SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THOMPSON ENGINEERING, INC. AND THE USER SHALL INDEMNIFY AND HOLD HARMLESS THOMPSON ENGINEERING, INC. FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

NOTE: ALL ITEMS OF WORK PERFORMED ON CITY PROPERY AND OUTSIDE OF CANAL ROAD RIGHT-OF-WAY SHALL BE MEASURED AND PAID FOR UNDER THE CITY PROJECT PAY ITEMS AND EXCLUDED FROM THE RESTORE GRANT PROJECT PAY ITEMS.

PROJECT NOTES

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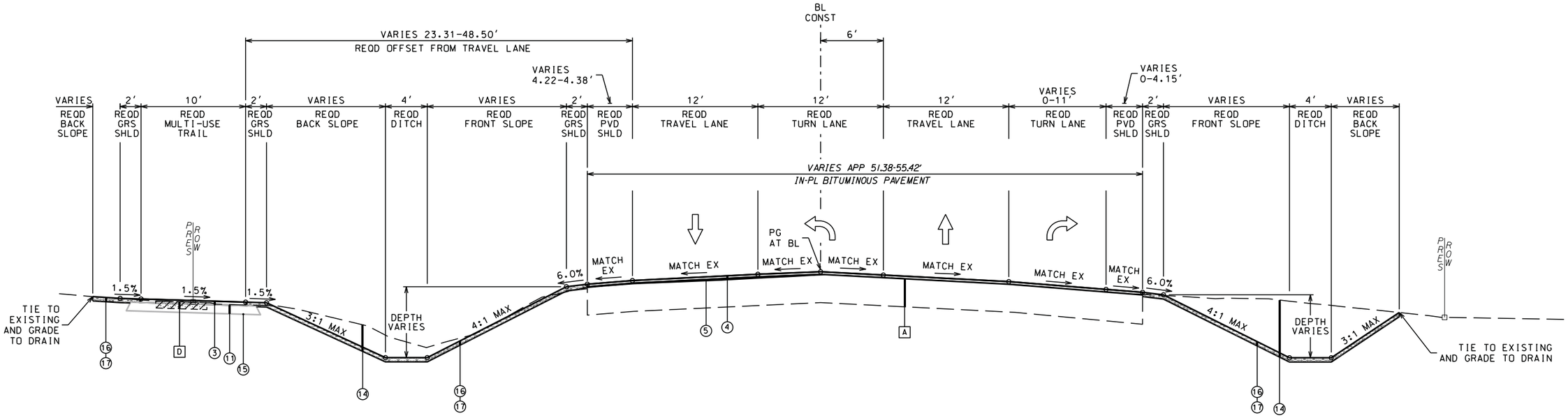

TYPICAL SECTION
CANAL ROAD
NTS

STA 735+46.00 TO STA 737+50.00 (END PAVING)

	EXISTING MATERIALS LEGEND
A	IN PLACE: BITUMINOUS PAVEMENT (RETAIN, PLANE, LEVEL AND OVERLAY)
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)
	REQUIRED MATERIALS LEGEND
3	REOD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (165 LBS/SY)
4	REOD: (424A-360) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (165 LBS/SY)
5	REOD: (424A-366) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (APP 0-250 LBS/SY)
6	REOD: (424B-651) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
8	REOD: (424B-681) SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D (250 LBS/SY)
10	REOD: (401A-000) BITUMINOUS TREATMENT A
11	REOD: (301A-008) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
12	REOD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
14	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR
	(210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
15	REOD: (608A-000) SEPERATION GEOTEXTILE
16	REOD: (650A-000) TOPSOIL
17	REOD: (654A-001) SOLID SODDING (BERMUDA)

NOTES:

1. THE IN-PLACE PAVED SHOULDER IN THIS SECTION WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
2. SEE PAVING LAYOUTS ON SHEET 26.
3. SEE STRIPING LAYOUTS ON SHEET 36.

SHEET NO. : 2-1

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TYPICAL SECTIONS

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
251 MAGNOLIA STREET, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 370-6990

thompson ENGINEERING

DRAWN BY: -- CHECKED BY: -- APPROVED BY: -- DATE : --

PREPARED BY :

SCALE: --

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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RESTORE GRANT PROJECT NO. GNSSP20AL0006-01-00

NOTE: ALL ITEMS OF WORK PERFORMED ON CITY PROPERY AND OUTSIDE OF CANAL ROAD RIGHT-OF-WAY SHALL BE MEASURED AND PAID FOR UNDER THE CITY PROJECT PAY ITEMS AND EXCLUDED FROM THE RESTORE GRANT PROJECT PAY ITEMS.

PROJECT NOTES

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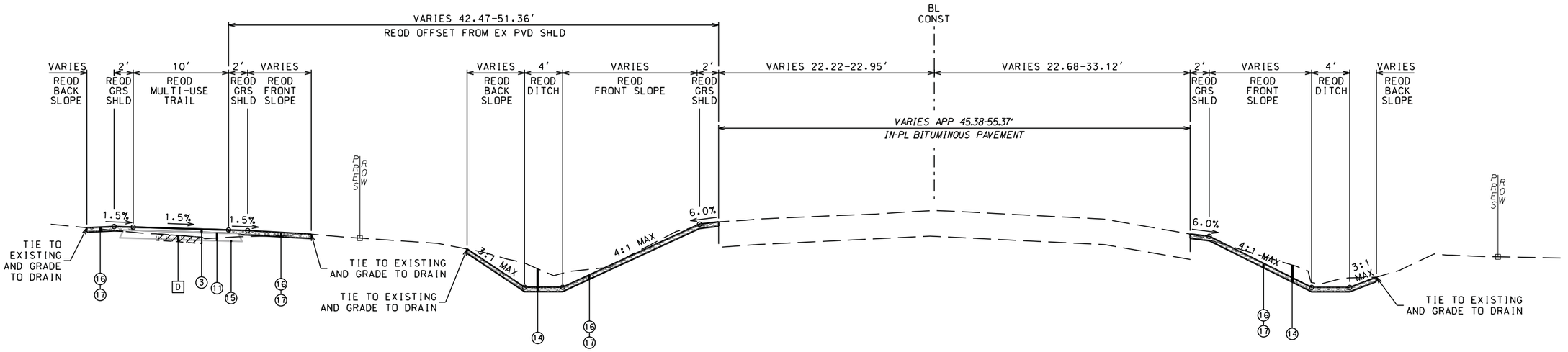

TYPICAL SECTION
CANAL ROAD
NTS

STA 737+50.00 TO STA 739+00.00

	EXISTING MATERIALS LEGEND
D	IN PLACE: CONCRETE SIDEWALK (REMOVE)
E	IN PLACE: BITUMINOUS PAVEMENT (RETAIN)
	REQUIRED MATERIALS LEGEND
(11)	REQD: (301A-008) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
(14)	REQD: (210A-000) UNCLASSIFIED EXCAVATION OR
	(210D-020) BORROW EXCAVATION (A-2 OR BETTER)(LOOSE TRUCKBED MEASUREMENT)
(15)	REQD: (608A-000) SEPERATION GEOTEXTILE
(16)	REQD: (650A-000) TOPSOIL
(17)	REQD: (654A-001) SOLID SODDING (BERMUDA)

NOTES:

1. THE IN-PLACE PAVED SHOULDER IN THIS SECTION WILL NOT REQUIRE REMOVAL PRIOR TO WIDENING. SHOULD IT BECOME APPARENT DURING CONSTRUCTION THAT THE THICKNESS OF THE ASPHALT SHOULDER IS LESS THAN 5 INCHES, THE SHOULDER SHOULD BE SAWCUT AND REMOVED PRIOR TO WIDENING.
2. SEE PAVING LAYOUTS ON SHEET 26.
3. SEE STRIPING LAYOUTS ON SHEET 36.

SHEET NO.: 2-J

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TYPICAL SECTIONS

JOB NO.: 20-1101-0085
DATE: DEC 2021
REVISION NO.: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
251 MAGNOLIA PLACE, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 370-6990

thompson ENGINEERING

DRAWN BY: --
CHECKED BY: --
APPROVED BY: --
PREPARED BY: --
SCALE: --

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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NOTE NO.	100
	OMIT

NOTE NO.	200
201	THE CONTRACTOR SHALL USE THE TYPICAL SECTIONS IN CONJUCTION WITH THE PAVING LAYOUT SHEETS AND CROSS SECTIONS FOR REQUIRED PAVEMENT WIDTHS, TRANSITIONS, RADII, TAPER LENGTHS, ROADSIDE GEOMETRY, SLOPES, DITCH LOCATIONS, ETC.
202	ROADBED PROCESSING FOR THE SUBGRADE IN AREAS SIX (6) FEET WIDE OR LESS SHALL BE WAIVED. THE DENSITY OF SUBGRADE IN THESE AREAS SHALL BE TO 100% COMPACTION MEETING AASHTO T-99 STANDARDS, AND THE PAYMENT OF THIS WORK SHALL BE A SUBSIDIARY OBLIGATION OF THE OVERLYING LAYER.
203	PAY ITEM 230A-000 SHOULD EXTEND A MINIMUM OF TWELVE (12) INCHES BEYOND THE LIMITS OF THE ABOVE BASE LAYER.
204	PAY ITEM 301A-012 SHOULD EXTEND A MINIMUM OF SIX (6) INCHES BEYOND THE ABOVE BINDER LAYER.
205	OFFSITE BORROW SHALL MEET THE CITY OF ORANGE BEACH REQUIREMENTS FOR FILL MATERIALS PLACED IN THIS AREA.
206	THE FULL BUILDUP SHALL EXTEND THROUGH ALL SIDE STREETS AND DRIVEWAYS. ON SIDE STREETS, THE FULL BUILDUP SHALL EXTEND TO THE BACK OF RADILS.
207	WORK ASSOCIATED WITH THE NOTCHING OF THE CRUSHED AGGREGATE BASE COURSE TO ACCOMMODATE THE REQUIRED CURB & GUTTER SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 623C.
208	JOB MIX AND L.A. ABRASION DATA NOT AVAILABLE FOR THIS PROJECT.
209	THE EXISTING PAVEMENT AT THE BEGINNING AND END OF PROJECT AND INTERSECTING STREETS AND DRIVEWAYS SHALL BE PLANED TO THE DEPTH REQUIRED TO PLACE THE WEARING SURFACE LAYER. PAVEMENT PLANING DEPTH AND LENGTH SHALL BE AS DETAILED OR DIRECTED BY THE ENGINEER. THE COST OF THIS WORK, INCLUDING THE REMOVAL AND THE DISPOSAL OF THE PLANED MATERIAL, SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 424A.
210	WHEN DROPOFFS ARE PRESENT AT PAVEMENT TIE-IN LOCATIONS, A TEMPORARY BITUMINOUS WEDGE OF EFFECTIVE LENGTH SHALL BE PLACED. THE COST SHALL BE PAID FOR UNDER ITEM 424A.
211	THE CONTRACTOR SHALL MAKE PROVISIONS NECESSARY TO PREVENT MILLED ASPHALT MATERIAL FROM ENTERING INLETS. ANY MATERIAL THAT ACCUMULATES IN GUTTERS OR INLETS SHALL BE REMOVED BEFORE PAVING OPERATIONS ARE COMPLETED.
212	IN CASES WHERE PAVEMENT AND/OR PAVED APRONS TO BE REMOVED ARE ADJACENT TO RETAINED PAVEMENT, A FULL DEPTH SAWCUT ALONG THE EDGE TO BE REMOVED SHALL BE MADE PRIOR TO REMOVAL. ALL COSTS RELATING TO THIS SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 424B.

NOTE NO.	300
301	THE COST OF CONSTRUCTION FUEL SHALL BE AN INCIDENTAL COST TO ASPHALT PAY ITEMS INCLUDED IN THIS PROJECT.
302	THE REMOVAL AND DISPOSAL OF IN-PLACE ASPHALT PAVEMENT SHALL BE PAID FOR AS 210A UNCLASSIFIED EXCAVATION.
303	ANY REQUIRED PLANING, REGARDLESS OF DEPTH, SHALL BE PAID FOR AS 408A-052.
304	TEMPORARY PAVEMENT MARKERS SHALL BE OF THE PERMANENT TYPE MEETING THE REQUIREMENTS OF SUBARTICLE 882.02(b) OF THE STANDARD SPECIFICATIONS.
305	APPROXIMATELY 2,000 TONS OF AGGREGATE SURFACING ITEM 430B HAS BEEN SETUP FOR USE AS DIRECTED BY THE ENGINEER FOR TEMPORARY CONNECTIONS TO DRIVEWAY AND AS A TEMPORARY WEDGE WHEN CUTS ARE LEFT OPEN OVERNIGHT ADJACENT TO THE TRAVELWAY. NO TESTING IS REQUIRED BUT THE MATERIAL SHALL BE ACCEPTED BY VISUAL INSPECTION OF THE ENGINEER.
306	ITEM 621H INLET TOP WILL BE MEASURED AS AN INDIVIDUAL UNIT THAT INLCUDES PAYMENT THE INLET TOPS, RISERS AND STRUCTURE TOP SLABS REQUIRED AT EACH LOCATION. INLET TOPS INCLUDE THE FRAMES, GRATES AND CURB HOODS OF THE TYPE SHOWN IN THE PLANS.

NOTE NO.	300 CONT'D
307	THE CURB INLETS USED FOR 621H INLET TOPS, CURB AND GUTTER SHALL MEET MINIMUM AASHTO HS-20 OR HL-93 LOAD RATINGS AND THE TYPE OF GRATE USED SHALL SAFELY ALLOW BICYCLE TRAFFIC FROM ALL ACCESSIBLE DIRECTIONS. CURB INLETS SHALL BE EITHER NEENAH FOUNDRY R-3067-L WITH HIGH CAPACITY VANE STYLE TYPE "L" GRATES, U.S. FOUNDRY 5130 FRAME & HOOD & 6016 GRATE, U.S. FOUNDRY 5130-2 FRAME & HOOD & 6130 GRATES, OR OTHER APPROVED EQUIVALENT.
308	THE GUTTER INLETS USED FOR 621H-003 INLET TOPS, GUTTER SHALL MEET MINIMUM AASHTO HS-20 OR HL-93 LOAD RATINGS AND THE TYPE OF GRATE USED SHALL SAFELY ALLOW BICYCLE TRAFFIC FROM ALL ACCESSIBLE DIRECTIONS. GUTTER INLETS SHALL BE NEENAH FOUNDRY R-3067-C WITH HIGH CAPACITY VANE STYLE TYPE "L" GRATES OR OTHER APPROVED EQUIVALENT.
309	ITEM 516D-000 PEDESTRIAN BRIDGE WILL BE MEASURED AS AN INDIVIDUAL UNIT THAT INCLUDES PAYMENT FOR THE TRANSITION SLABS, FOUNDATION WALLS AND FOOTINGS REQUIRED ON BOTH APPROACHES.

NOTE NO.	400
401	ALL PERMANENT AND/OR TEMPORARY STRIPING PLACED ON A FINAL WEARING SURFACE THAT DOES NOT MEET THE TOLERANCES SPECIFIED SHALL BE REMOVED BY HYDRAULIC MEANS ONLY AND REPLACED WITHOUT COMPENSATION. THIS INCLUDES AREAS WHERE THE PERMANENT STRIPING DOES NOT MATCH THE ALIGNMENT, SPACING, ETC. OF THE TEMPORARY STRIPE, LEAVING THE TEMPORARY STRIPE EXPOSED.
402	ANY ITEMS OF WORK PERFORMED IN RESIDENTIAL OR COMMERCIAL AREAS TO REPLACE OR TIE TO EXISTING STRUCTURES SHALL BE DONE IN KIND, TO MATCH EXISTING CONDITIONS.

NOTE NO.	500
	OMIT

NOTE NO.	600
	OMIT

NOTE NO.	700
	SEE SHEET 2-Q FOR GENERAL TRAFFIC CONTROL PLAN NOTES

NOTE NO.	800
801	IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY OWNERS AND DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES ON THIS PROJECT WHETHER SHOWN ON THE PLANS OR NOT. THE LOCATION OF ANY REQUIRED GUARDRAIL, SIGNS, FOOTINGS OF ANY NATURE AND/OR ELECTRICAL/COMMUNICATIONS CONDUIT MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO PREVENT ANY CONFLICTS WITH THESE UTILITIES.

NOTE NO.	900
901	A NOTICE OF INTENT FOR NPDES PERMIT COVERAGE HAS BEEN FILED WITH ADEM FOR THIS PROJECT. A COPY OF THE CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN (CBMPP) IS AVAILABLE THROUGH THE CITY PRIOR TO BIDDING.
902	THERE SHALL BE NO FUEL TANKS STORED ON THE RIGHT OF WAY. IN ADDITION, FUEL TRUCKS OR VEHICLES TRANSPORTING CHEMICALS, FERTILIZER, ETC., SHALL NOT BE LEFT UNATTENDED ON THE RIGHT OF WAY.
903	1,500 SQ YD OF POLYETHYLENE AND 750 SANDBAGS ARE SETUP FOR USE AS DIRECTED BY THE ENGINEER TO COVER EXPOSED ERODIBLE SOIL PRIOR TO RAINFALL EVENTS.

NOTE NO.	1000
	OMIT

NOTE NO.	1100
	OMIT

SHEET NO. : 2-N

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PROJECT NOTES

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
7351 WEST FRONT ST., SUITE 101
ORANGE BEACH, ALABAMA 36561
(251) 370-6990

DRAWN BY: -- CHECKED BY: -- APPROVED BY: --

SCALE: --

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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1. GENERAL REQUIREMENTS:

1.1. THESE STRUCTURAL DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. ALL CONSTRUCTION SHALL CONFORM TO THE EDITION OF THE INTERNATIONAL BUILDING CODE REFERENCED. REFERENCE TO OTHER SPECIFICATIONS OR CODES SHALL MEAN THE VERSION INDICATED IN THE INTERNATIONAL BUILDING CODE.

1.2. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE A PORTION OF THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR AND SUBCONTRACTORS SHALL REFERENCE AND COORDINATE WITH ALL OTHER DISCIPLINES DRAWINGS. ANY DISCREPANCIES OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT/ENGINEER.

1.3. STRUCTURAL DRAWINGS SHOW TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY AND SHALL APPLY FOR LIKE OR SIMILAR CONDITIONS UNLESS NOTED OTHERWISE. FOR CONDITIONS NOT SPECIFICALLY SHOWN, PROVIDE DETAILS SIMILAR TO THOSE SHOWN. IF THERE IS A QUESTION REGARDING THE APPLICABILITY OF A DETAIL, CONTACT THE ENGINEER IN WRITING REQUESTING CLARIFICATION.

1.4. STRUCTURAL MEMBERS SHALL NOT BE CUT, NOTCHED, CHANGED OR MODIFIED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

1.5. DO NOT SCALE FOR DIMENSIONS NOT SHOWN ON THE DRAWINGS. SEND A WRITTEN REQUEST FOR INFORMATION TO THE ENGINEER FOR DIMENSIONS NOT PROVIDED.

1.6. THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.

1.7. THE STRUCTURE SHOWN ON THESE DRAWINGS IS STRUCTURALLY SOUND ONLY IN ITS COMPLETED FORM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. THE ENGINEER WILL NOT ADVISE ON OR ISSUE DIRECTION RELATED TO SAFETY REQUIREMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE OSHA REGULATIONS.

1.8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOAD.

1.9. DISSIMILAR METALS MUST BE SEPARATED BY A COATING SUCH AS ECK CORROSION COATING OR AN APPROVED EQUIVALENT, OR NEOPRENE GASKET MATERIAL TO PREVENT GALVANIC ACTION.

1.10. WHERE SPECIFIED, POST INSTALLED ANCHORING SYSTEMS SUCH AS MANUFACTURED BY SIMPSON OR HILTI, SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. SPECIAL ATTENTION SHALL BE GIVEN TO THE DRILLING, CLEANING, AND PREPARATION OF HOLES. WHERE ADHESIVE ANCHORS ARE SHOWN, SPECIAL ATTENTION SHALL BE GIVEN TO THE REQUIRED MIXING, APPLICATION, AND CURING TIME OF THE ADHESIVE SPECIFIED.

1.11. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION THAT MIGHT BE AFFECTED BY, OR OTHERWISE INTERFERE WITH, INSTALLATION OF NEW WORK. THIS INCLUDES THOSE THAT MIGHT BE DAMAGED BY NEW FOUNDATIONS OR OTHER WORK, AND THOSE WHOSE PRESENCE MIGHT LEAD DAMAGE TO THE NEW WORK (e.g. DIFFERENTIAL SETTLEMENT).

2. EXISTING CONDITIONS:

2.1. EXISTING CONDITIONS DEPICTED ON THESE DRAWINGS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO FABRICATION OR CONSTRUCTION AND AS THEY ARE UNCOVERED DURING CONSTRUCTION. IN THE EVENT EXISTING CONDITIONS ARE DIFFERENT THAN SHOWN ON THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IMMEDIATELY.

2.2. DIMENSIONS RELATIVE TO AN EXISTING STRUCTURE ARE APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO MATERIALS PURCHASE, FABRICATION, OR CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER IN WRITING OF DISCREPANCIES.

3. DESIGN CRITERIA:

3.1. GENERAL BUILDING CODE:

3.1.1. INTERNATIONAL BUILDING CODE, IBC 2018 EDITION. ALL CODES BELOW ARE THE EDITION REFERENCED IN THE IBC.

3.2. DESIGN LOAD CRITERIA:

3.2.1. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS, ASCE 7.

3.3. CONCRETE:

3.3.1. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, AMERICAN CONCRETE INSTITUTE, ACI 318.

3.4. TIMBER:

3.4.1. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, AMERICAN FOREST & PAPER ASSOCIATION/AMERICAN WOOD COUNCIL, NDS.

4. DESIGN LOADS:

4.1. DESIGN DEAD LOAD IS ACTUAL WEIGHT OF THE STRUCTURE. ANY CHANGES IN CONSTRUCTION MATERIALS FROM THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER FOR VERIFICATION OF LOAD-CARRYING CAPACITY OF THE STRUCTURE.

4.2. LIVE LOADS (PSF):

FLOOR	100
VEHICLE	SEE GOLF CART LOADS DIAGRAM

5. DEMOLITION:

5.1. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL NECESSARY BRACING, SHORING AND OTHER SAFEGUARDS TO MAINTAIN ALL PARTS OF THE EXISTING WORK IN A SAFE AND UNDAMAGED CONDITION DURING THE PROCESS OF DEMOLITION AND NEW CONSTRUCTION.

5.2. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION, AND AS INDICATED.

5.3. SURVEY EXISTING CONDITIONS AND CORRELATE WITH REQUIREMENTS INDICATED TO DETERMINE EXTENT OF SELECTIVE DEMOLITION REQUIRED.

5.4. CONDUCT SELECTIVE DEMOLITION AND DEBRIS-REMOVAL OPERATIONS TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, WALKWAYS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES.

5.5. PROVIDE AND MAINTAIN SHORING, BRACING, AND STRUCTURAL SUPPORTS AS REQUIRED TO PRESERVE STABILITY AND PREVENT MOVEMENT OF CONSTRUCTION BEING DEMOLISHED AND STRUCTURE TO REMAIN.

6. SOILS, SLABS, WALLS, AND SHALLOW FOUNDATIONS:

6.1. A GEOTECHNICAL ENGINEER SHALL PROVIDE COMPACTED FILL REQUIREMENTS FOR THE BUILDING PAD AND REVIEW THE FOUNDATION BEARING SURFACE TO VERIFY THE ASSUMED ALLOWABLE BEARING PRESSURE NOTED. DO NOT PLACE CONCRETE PRIOR TO GEOTECHNICAL ENGINEER'S APPROVAL.

6.2. ASSUMED MAXIMUM ALLOWABLE BEARING PRESSURES (PSF):

CONTINUOUS WALL FOOTINGS	1500

6.3. THE FOUNDATION AND SLAB ON GRADE DESIGN IS BASED ON CRITERIA ESTABLISHED IN THE GEOTECHNICAL REPORT BY THOMPSON ENGINEERING TITLED "SR-180 SHARED USE PATH PROJECT ON CANAL ROAD, PROJECT NO.20-1101-0105 DATED JANUARY 21, 2021." THE CONTRACTOR SHALL OBTAIN A COPY OF THE GEOTECHNICAL REPORT FROM THE OWNER AND FOLLOW ALL REQUIREMENTS AND RECOMMENDATIONS.

6.4. MAX ALLOWABLE BEARING PER GEOTECHNICAL REPORT (PSF):

UNLESS NOTED OTHERWISE	1500

6.5. ALL FOUNDATION BEARING SURFACES SHALL BE REVIEWED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING CONCRETE TO ENSURE THEIR COMPLIANCE WITH THE PRESSURES NOTED, THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS, AND THE GEOTECHNICAL REPORT. IN THE ABSENCE OF SPECIFIC REQUIREMENTS, A DYNAMIC CONE PENETROMETER TEST (ASTM STP-399) SHALL BE PROVIDED AT EACH ISOLATED COLUMN FOOTING AND A MAXIMUM OF EVERY 50' OF CONTINUOUS FOUNDATION AND/OR THICKENED SLAB TO VERIFY BEARING CAPACITY. SOILS DEEMED UNSUITABLE SHALL BE UNDERCUT TO COMPETENT MATERIAL, BACKFILLED WITH AN APPROVED AND PROPERLY COMPACTED MATERIAL, AND RETESTED.

6.6. ALL FOOTING ELEVATIONS ARE ESTIMATED AND MAY BE ADJUSTED IN THE FIELD BY THE GEOTECHNICAL ENGINEER.

6.7. COMPACTED FILL SHALL MEET THE REQUIREMENTS NOTED IN THE GEOTECHNICAL REPORT.

6.8. WHEN EXCAVATIONS APPROACH THE GROUND WATER TABLE, THE WATER LEVEL SHALL BE LOWERED BY AN ACCEPTABLE DEWATERING SYSTEM SO THAT THE WATER LEVEL IS MAINTAINED CONTINUOUSLY A MINIMUM OF 2' BELOW THE EXCAVATION DURING CONSTRUCTION.

6.9. CONTRACTOR SHALL FOLLOW THE SITE WORK AND SUBGRADE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL REPORT.

6.10. EARTH SUPPORTED SLAB:

SUBGRADE MODULUS	100 PCI

6.11. PROVIDE 4" COMPACTED GRANULAR FILL BENEATH ALL EARTH SUPPORTED SLABS.

6.12. PROVIDE ½" P.E.J FILLER AROUND PERIMETER OF SLABS WHERE THEY ABUT VERTICAL SURFACES AND AT COLUMN ISOLATION JOINTS AS DETAILED.

6.13. BACKFILL FOR FOUNDATION AND RETAINING WALLS SHALL BE A FREE DRAINING GRANULAR MATERIAL. BACKFILL SHALL BE COMPACTED SUFFICIENTLY TO PREVENT SUBSIDENCE OF SURFACE ADJACENT TO WALL. THE GRANULAR MATERIAL SHALL BE PLACED IN A 45 DEGREE WEDGE EXTENDING FROM THE BASE OF THE FOOTING.

6.14. FOUNDATION AND RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL CONCRETE HAS ATTAINED THE REQUIRED 28 DAY COMPRESSIVE STRENGTH.

6.15. BACKFILLING OF WALLS AND PIERS SHALL BE PLACED SUCH THAT SYMMETRICAL LOADING SHALL BE MAINTAINED ON BOTH SIDES. WHERE DESIGN CONDITIONS REQUIRE BACKFILLING EACH SIDE TO UNEQUAL HEIGHTS, THEN WALLS OR PIERS SHALL BE FIRMLY SHORED IN POSITION, AND SHORES SHALL REMAIN UNTIL FLOORS OR OTHER PERMANENT BRACING ELEMENTS ARE PLACED AND PROPERLY SET TO PROVIDE FULL SUPPORT.

6.16. HEAVY EQUIPMENT FOR SPREADING AND COMPACTING BACKFILL SHALL NOT BE OPERATED CLOSER TO WALL, GRADE BEAM, ETC., THAN A DISTANCE EQUAL TO THE HEIGHT OF BACKFILL ABOVE THE TOP OF WALL FOOTING AND BOTTOM OF GRADE BEAM, ETC. THE AREA REMAINING SHALL BE COMPACTED BY HAND TAMPERS.

6.17. SIDES OF FOUNDATIONS SHALL BE FORMED UNLESS CONDITIONS PERMIT EARTH FORMING.

6.18. HORIZONTAL BARS IN FOOTINGS AND STEM WALLS SHALL BE CONTINUOUS. PROVIDE CORNER BARS AT ALL INTERSECTIONS UNLESS NOTED OTHERWISE.

6.19. SUPPORT BOTTOM REINFORCING IN FOOTINGS WITH CONCRETE BRICKS OR PLASTIC CHAIRS SPACED A MAXIMUM OF 3'-0" EACH WAY. SUPPORTS SHALL BE POSITIONED TO PROVIDE A MINIMUM OF 3" CLEAR TO BOTTOM OF LOWEST REINFORCING BAR.

6.20. CONSTRUCTION JOINTS IN CONTINUOUS FOOTINGS SHALL BE FORMED VERTICALLY WITH A CLASS B LAP IN HORIZONTAL REINFORCING.

6.21. POUR A 2" MUD MAT OF LEAN CONCRETE IN THE BOTTOM OF A FOOTING EXCAVATION THAT WILL BE EXPOSED TO RAIN OR REMAIN OPEN OVERNIGHT.

6.22. ALL REINFORCING SHALL BE TIED IN PLACE PRIOR TO PLACING CONCRETE.

6.23. FOUNDATION PENETRATIONS SHALL BE SUBJECT TO APPROVAL BY THE STRUCTURAL ENGINEER.

6.24. WHERE FOOTING STEPS ARE REQUIRED, THEY SHALL BE NO STEEPER THAN ONE VERTICAL TO TWO HORIZONTAL.

6.25. WHERE GRAVITY PLUMBING LINES OCCUR BELOW TOP OF WALL FOOTING, STEP FOOTING DOWN TO PROVIDE CLEARANCE. COORDINATE WITH PLUMBING DRAWINGS FOR LOCATIONS, SIZES, AND INVERTS.

6.26. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT, AND OTHER HAZARDS CREATED BY EARTHWORK OPERATIONS.

6.27. PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCAVATIONS AND FROM PONDING ON PREPARED SUBGRADES AND SLABS. DO NOT USE EXCAVATED TRENCHES AS TEMPORARY DRAINAGE DITCHES.

6.28. DEWATER EXCAVATIONS AND REMOVE ANY WET MATERIAL PRIOR TO THE PLACING OF CONCRETE.

6.29. IMMEDIATELY NOTIFY THE OWNERS REPRESENTATIVE AND ENGINEER IF UNUSUAL SOIL CONDITIONS ARE FOUND.

7. OMITTED:

8. DRIVEN TIMBER PILES:

8.1. TIMBER PILE CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, AMERICAN WOOD COUNCIL, AND ASTM D25 STANDARD SPECIFICATION FOR ROUND TIMBER PILES.

8.2. ALL TIMBER PILING SHALL BE SOUTHERN PINE.

8.3. ALL TIMBER PILING SHALL CONFORM TO ASTM D25, CLASS A WITH A MINIMUM TIP DIAMETER OF 8" AND MINIMUM BUTT DIMENSION OF 10" THREE FEET FROM THE BUTT.

8.4. EACH PILE SHALL BE IDENTIFIED WITH A QUALITY MARK BY AN APPROVED INSPECTION AGENCY CERTIFIED BY THE AMERICAN LUMBER STANDARDS COMMITTEE (ALSO).

8.5. ALL TIMBER PILES SHALL BE TREATED IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD UC4B TO 0.6 PCF CCA FOR HEAVY DUTY GROUND CONTACT FOUNDATION SYSTEMS.

8.6. ALL TIMBER MEMBERS IN CONTACT WITH MARINE ENVIRONMENT SHALL BE TREATED IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD UC5C TO 2.5 PCF CCA AND BE DUAL TREATED.

8.7. PILING CONTRACTOR SHALL CUT OFF PILES CLEAN AND HORIZONTAL AT THE PILE ELEVATIONS SHOWN ON THE DRAWINGS.

8.8. PILING CONTRACTOR SHALL COMPACT SOIL AROUND PILING TO THE BOTTOM OF THE CAP ELEVATIONS SHOWN ON THE DRAWINGS.

8.9. JETTING SHALL NOT BE PERMITTED UNLESS APPROVED BY THE ENGINEER.

8.10. ALL PILES SHALL BE DRIVEN TO REFUSAL OR THE DEPTHS GIVEN IN THE GEOTECHNICAL REPORT. IF REFUSAL IS ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ANY OBSTRUCTION TO DRIVING TO THE SPECIFIED PENETRATION SHALL BE REMOVED.

8.11. PILES SHALL BE CAREFULLY LOCATED AS SHOWN IN THE PROJECT PLANS WITH A TOLERANCE OF 3 INCHES. PILING SHALL BE PLACED PLUMB WITH OUT-OF-PLUMBNESS NOT EXCEEDING 1/8 INCH PER FOOT.

8.12. PILINGS SHALL NOT BE DRIVEN WITHIN 100 FEET OF CONCRETE LESS THAN 7 DAYS OLD.

8.13. SPLICING OF THE PILES IS NOT PERMITTED.

9. CONCRETE:

9.1. ALL CONCRETING OPERATIONS SHALL COMPLY WITH ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS".

9.2. DETAIL CONCRETE REINFORCEMENT AND ACCESSORIES IN ACCORDANCE WITH ACI 315 "DETAILING MANUAL".

9.3. THE CONTRACTOR SHALL SUBMIT FOR THE STRUCTURAL ENGINEER'S REVIEW SHOP DRAWINGS FOR THE FOLLOWING ITEMS.

9.3.1. CONCRETE MIX DESIGNS

9.3.2. CONCRETE REINFORCING

9.4. CONTRACTOR SHALL NOT FABRICATE OR PLACE REINFORCEMENT UNTIL REINFORCEMENT SHOP DRAWINGS, REVIEWED AND STAMPED BY THE STRUCTURAL ENGINEER, ARE RECEIVED ON THE JOB SITE. SHOP DRAWINGS SHALL CONSIST OF BOTH "CUT" AND PLACEMENT SHEETS. PLACEMENT SHEETS SHALL CONTAIN ALL INFORMATION NECESSARY TO POSITION ALL REINFORCING STEEL IN THE FIELD WITHOUT HAVING TO REFER TO THE STRUCTURAL DRAWINGS. STRUCTURAL DRAWINGS SHALL NOT BE COPIED OR REPRODUCED FOR USE AS SHOP DRAWINGS.

9.5. A QUALITY ASSURANCE PROGRAM CONSISTING OF SUBMITTALS, TESTING, AND INSPECTIONS SHALL BE USED TO VERIFY THAT CONSTRUCTION IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. MATERIAL QUALITY, HANDLING, STORAGE, PREPARATION, PLACEMENT, AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CODE.

9.6. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE OWNER'S TESTING LABORATORY. RESPONSIBILITY FOR OBTAINING THE REQUIRED CONCRETE DESIGN STRENGTH IS THE CONTRACTOR'S.

9.7. REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.

9.8. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706.

9.9. WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064. MINIMUM LAP AND EMBEDMENT TO BE THE GREATER OF ONE CROSS WIRE SPACING PLUS 2" OR 8". WWR SHALL BE SUPPLIED IN FLAT SHEETS (NOT ROLLS).

9.10. DEFORMED BAR ANCHORS (DBA'S) SHALL CONFORM TO ASTM A496. DBA'S SHALL BE AUTOMATICALLY END WELDED USING MANUFACTURERS RECOMMENDED PROCEDURES, EQUIPMENT, FLUX, AND FERRULES. DBA'S SHALL BE NELSON FLUXED DBA'S OR APPROVED ALTERNATE.

9.11. SEE CONCRETE COVER SCHEDULE FOR REQUIRED STEEL COVERAGE.

9.12. SEE CONCRETE MIX DESIGN SCHEDULE FOR REQUIRED CONCRETE STRENGTH AND PROPERTIES.

9.13. USE OF CALCIUM CHLORIDE, CHLORIDE IONS, OR OTHER SALTS IN CONCRETE IS NOT PERMITTED.

9.14. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4 INCH CHAMFER.

9.15. CONSTRUCTION JOINTS IN A HORIZONTAL PLANE ARE NOT PERMITTED.

9.16. ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL BULKHEADS AND HORIZONTAL KEYS. MAKE ALL REINFORCING CONTINUOUS THROUGH CONSTRUCTION JOINTS. CONTROL JOINTS FOR CONCRETE SLABS ON GRADE SHALL BE AS DETAILED AND LOCATED AS SHOWN IN THE CONSTRUCTION DOCUMENTS.

9.17. COAT ALL SLABS WITH CURING COMPOUND WITHIN 24 HOURS OF PLACING. PRODUCT USED SHALL CONFORM WITH ASTM C309, AND SHALL BE COMPATIBLE WITH ADHERED FINISHES. A DISSIPATING FORMULATION SHALL BE USED AT CEMENTITIOUS FINISHES.

9.18. REINFORCING STEEL SHOWN IN SECTIONS AND DETAILS ARE A SCHEMATIC INDICATION THAT REINFORCING EXISTS. SEE SCHEDULES, SECTION NOTES, AND GENERAL NOTES FOR ACTUAL REINFORCING REQUIRED.

9.19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING AND PLACING ALL SLEEVES, EMBEDDED ITEMS, ACCESSORIES, ETC.

9.20. DO NOT PLACE PIPES OR DUCTS EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS WITHIN THE SLAB UNLESS SPECIFICALLY SHOWN AND DETAILED ON THE STRUCTURAL DRAWINGS.

9.21. REINFORCING BAR PLACING ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI MANUAL OF STANDARD PRACTICE. WHERE CONCRETE IS EXPOSED IN FINISHED BUILDING, PROVIDE ACCESSORIES WITH RUSTPROOF LEGS. WHERE CONCRETE IS SAND-BLASTED OR BUSH-HAMMERED, PROVIDE ACCESSORIES OF STAINLESS STEEL.

9.22. ALL SPLICES SHALL BE CLASS "B" TENSION LAP SPLICE, UNLESS NOTED OTHERWISE.

9.23. TIE ALL REINFORCING STEEL AND EMBEDMENT'S SECURELY IN PLACE PRIOR TO PLACING CONCRETE. PROVIDE SUFFICIENT SUPPORTS TO MAINTAIN POSITION OF REINFORCEMENT WITHIN SPECIFIED TOLERANCES DURING ALL CONSTRUCTION ACTIVITIES. "STICKING" DOWELS INTO WET CONCRETE IS NOT PERMITTED.

9.24. ADDITIONAL REINFORCING AND THE QUANTITY OF REINFORCING OCCURRING AT OPENINGS SHALL BE PLACED EQUALLY EACH SIDE OF OPENINGS AS DETAILED.

9.25. HOOKS IN REINFORCING ARE IN ADDITION TO LENGTH SHOWN.

9.26. FIELD BENDING OF BARS LARGER THAN #4 IS NOT PERMITTED. ALL BENDS FOR BARS LARGER THAN #4 SHALL BE SHOP MADE COLD BENDS.

9.27. FOR PEDESTAL, COLUMN, AND WALL VERTICAL REINFORCING, DOWEL TO FOUNDATION WITH HOOKED BARS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING.

10. WOOD FRAMING:

10.1. WOOD CONSTRUCTION SHALL COMPLY WITH THE INTERNATIONAL BUILDING CODE AND THE AMERICAN WOOD COUNCIL REQUIREMENTS.

10.2. A QUALITY ASSURANCE PROGRAM CONSISTING OF SUBMITTALS AND INSPECTIONS SHALL BE USED TO VERIFY THAT THE CONSTRUCTED WOOD IS IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. MATERIAL QUALITY, HANDLING, STORAGE, PREPARATION, PLACEMENT, AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE CODE.

10.3. WOOD FRAMING MEMBERS: VISUALLY GRADED DIMENSIONED #2 SOUTHERN PINE.

10.4. SILL PLATES, SOLE PLATES AND TOP PLATES SHALL BE OF THE SAME SIZE AS THE STUDS TO WHICH THEY ARE CONNECTED. GRADE SHALL BE AS SPECIFIED ABOVE.

10.5. ALL PRESSURE TREATED LUMBER SHALL BE PRESSURE TREATED WITH ALKALINE COPPER QUATERNARY (ACQ) OR MICRONIZED COPPER AZOLE (MCA) IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD.

10.5.1. ALL 3X12 STRINGERS TO BE TREATED IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD UC4B.

10.5.2. ALL DECKING AND RAILING TO BE TREATED IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD UC4A.

10.6. PRESERVATION RETENTION:

10.6.1. 0.60 LBS/FT3 PERMANENT WOOD FOUNDATIONS

10.6.2. 0.40 LBS/FT3 GROUND CONTACT

10.6.3. 0.25 LBS/FT3 ABOVE GROUND

10.7. ALL FASTENERS, NAILS AND OTHER METAL PRODUCTS USED WITH LUMBER PRESSURE TREATED WITH ACQ SHALL BE HOT-DIP GALVANIZED, STAINLESS STEEL OR AS RECOMMENDED BY THE ACQ MANUFACTURER. PRESSURE TREATED LUMBER SHALL NOT BE IN DIRECT CONTACT WITH ALUMINUM PRODUCTS.

10.8. DIMENSIONED LUMBER FLOOR JOISTS AND BEAMS SHALL BE LATERALLY BRACED AT ENDS, POINTS OF BEARING AND MAXIMUM INTERVALS OF 8'-0" BY SOLID BLOCKING, BRIDGING OR TRANSVERSE BEAMS IN ORDER TO PREVENT ROTATION.

10.9. ALL MANUFACTURED WOOD FRAMING CONNECTORS TO BE BY SIMPSON STRONG-TIE COMPANY, INC. OR APPROVED EQUAL. ALL CONNECTORS SHALL BE FASTENED TO FRAMING MEMBERS FILLING THE REQUIRED NUMBER OF CONNECTOR HOLES WITH THE TYPE AND SIZE FASTENERS SPECIFIED BY THE MANUFACTURER.

10.10. GLUE LAMINATED TIMBER SHALL NOT BE USED WITHOUT APPROVAL BY THE ENGINEER.

10.11. BOLTED CONNECTIONS BEARING ON TIMBER FRAMING OR PILING SHALL INCORPORATED GALVANIZED OGEE WASHERS, MATCHING THE BOLT SIZE.

11. POST INSTALLED ANCHORS:

11.1. POST INSTALLED ANCHORS SHALL COMPLY WITH ACI-318.

11.2. POST INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE GENERAL CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USING POST INSTALLED ANCHORS FOR MISSING OR MISPLACED CAST-IN-PLACE ANCHORS.

11.3. ACCEPTABLE MANUFACTURERS SHALL INCLUDE BUT ARE NOT LIMITED TO HILTI, INC. AND SIMPSON STRONG-TIE COMPANY, INC.

11.4. CARE SHALL BE TAKEN IN PLACING POST INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR.

11.5. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SHOWN SHALL BE SUBMITTED BY THE CONTRACTOR ALONG WITH PREPARED DOCUMENTATION DEMONSTRATING EQUAL SUBSTITUTION THAT THE PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

11.6. THE CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S INSTALLATION GUIDELINES, SPECIFICATIONS, AND RECOMMENDATIONS.

11.7. ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI355.4 AND ICC-ES AC308.

12. FOUNDATION QUALITY CONTROL:

12.1. BEARING ELEVATIONS: THE TOP ELEVATION OF ALL FOOTINGS IS SHOWN ON THE DRAWINGS FOR BID PURPOSES. THE FINAL BEARING ELEVATIONS MAY VARY AS REQUIRED TO PROVIDE PROPER BEARING CAPACITY IN AN APPROVED BEARING STRATUM AS DETERMINED BY THE GEOTECHNICAL ENGINEER.

12.2. FIELD INSPECTION OF BEARING STRATUM: THE BEARING STRATUM OF EACH SPREAD FOOTING SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO POURING OF CONCRETE.

12.3. FOOTINGS SHALL BE NEATLY EXCAVATED WHERE POSSIBLE WITH SIDES AND TOP EDGES FREE OF LOOSE OR WET MATERIALS. WHERE NEAT EXCAVATION IS NOT POSSIBLE, FOOTING EXCAVATION SHALL BE OPEN CUT WITH EDGES FORMED AND BRACED. ALL FOOTINGS WITH FORMED EDGES SHALL BE BACKFILLED FROM BOTTOM TO TOP OF FOOTING WITH LEAN CONCRETE. THE BOTTOM EXCAVATION SHALL BE CLEAN AND DRY WITH ALL LOOSE MATERIAL REMOVED FOR AN ESSENTIALLY FLAT BEARING SURFACE. EXCAVATIONS SHALL NOT BE LEFT OVERNIGHT UNLESS A 2" UNREINFORCED CONCRETE SEAL (MUD) SLAB IS PLACED AT THE BOTTOM OF THE FOOTING EXCAVATION. WHERE SOFT OR UNSUITABLE BEARING SURFACES ARE ENCOUNTERED, THE AREA SHALL BE UNDERCUT AS REQUIRED AND REPLACED WITH LEAN CONCRETE OR COMPACTED DENSE GRADED CRUSHED STONE AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

12.4. ALL BACKFILL SHALL BE ENGINEERED FILL AS DEFINED IN THE GEOTECHNICAL REPORT. EXCAVATED MATERIAL MAY BE USED AS BACKFILL MATERIAL WITH WRITTEN APPROVAL FROM THE GEOTECHNICAL ENGINEER STATING THAT SUCH MATERIAL IS SUITABLE AS BACKFILL AND INSTRUCTIONS ARE GIVEN FOR PROPER MOISTURE CONTENT AND COMPACTION. THE TESTING AGENCY APPROVAL AND INSTRUCTIONS FOR COMPACTION SHALL BE SUBMITTED TO THE GEOTECHNICAL ENGINEER FOR REVIEW.

13. CONCRETE QUALITY CONTROL:

13.1. ALL CONCRETE TO BE AIR ENTRAINED SHALL USE AIR-ENTRAINING ADMIXTURE AT THE MANUFACTURER'S PRESCRIBED RATE TO RESULT IN CONCRETE AT THE POINT OF PLACEMENT HAVING A TOTAL AIR CONTENT AS NOTED ABOVE.

13.2. CONCRETE AGGREGATES SHALL CONFORM TO ASTM C33. NORMAL WEIGHT CONCRETE AGGREGATES MAY BE EITHER GRAVEL OR LIMESTONE UNLESS SPECIFIED.

13.3. WATER FOR CONCRETE SHALL BE CLEAN, FRESH, AND DRINKABLE.

13.4. CEMENT SHALL CONFORM TO THE SPECIFICATION FOR PORTLAND CEMENT, ASTM C150, TYPE I (NORMAL).

13.5. UNLESS ACCEPTED BY THE STRUCTURAL ENGINEER, USE ONE BRAND OF CEMENT THROUGHOUT THE PROJECT.

13.6. AN INDEPENDENT TESTING AGENCY SHALL PREPARE DESIGN MIXES FOR EACH TYPE AND STRENGTH OF CONCRETE BY EITHER LABORATORY TRIAL MIXTURES OR FIELD EXPERIENCE METHODS AS SPECIFIED IN ACI 318.

13.7. CONCRETE MIX DESIGNS MUST BE SUBMITTED A MINIMUM OF 15 DAYS PRIOR TO THE START OF THE WORK FOR STRUCTURAL ENGINEER'S ACCEPTANCE. ANY ADJUSTMENT IN APPROVED MIX DESIGNS INCLUDING CHANGES IN ADMIXTURES MUST BE SUBMITTED IN WRITING TO THE STRUCTURAL ENGINEER FOR ACCEPTANCE PRIOR TO USE IN THE FIELD.

13.8. CONCRETE DESIGNED TO BE PUMPED SHALL BE SO NOTED ON THE MIX DESIGNS AND SHALL HAVE MIX PROPORTIONS COMPATIBLE WITH THE PUMPING PROCESS.

13.9. USE ONLY ADMIXTURES APPROVED BY THE STRUCTURAL ENGINEER AND CONTAINING NO CHLORIDE IONS.

13.10. THE CONTRACTOR SHALL EMPLOY A TESTING AGENCY TO PERFORM THE REQUIRED TESTS AND TO SUBMIT THE TEST REPORTS.

13.11. DURING PLACEMENT OF CONCRETE SAMPLE AND TEST CONCRETE FOR QUALITY CONTROL AS FOLLOWS:

13.11.1. CONCRETE SAMPLING: ASTM C172, EXCEPT MODIFIED FOR SLUMP TO COMPLY WITH ASTM C94.

13.11.2. CONCRETE SLUMP: ASTM C143, ONE TEST FOR EACH SET OF COMPRESSIVE STRENGTH TEST SPECIMENS.

13.11.3. AIR CONTENT: ASTM C173, VOLUMETRIC METHOD FOR LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE; ASTM C231 PRESSURE FOR NORMAL WEIGHT CONCRETE; ONE FOR EACH SET OF COMPRESSIVE STRENGTH TEST SPECIMENS.

13.11.4. CONCRETE TEMPERATURE: TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEGREES F (4 DEGREES C) AND BELOW, AND WHEN 80 DEGREES F (27 DEGREES C) AND ABOVE, AND EACH TIME A SET OF COMPRESSION TEST SPECIMENS ARE MADE.

13.11.5. COMPRESSIVE TEST SPECIMEN: ASTM C31, ONE SET OF FOUR STANDARD CYLINDERS FOR EACH COMPRESSIVE STRENGTH TEST,UNLESS DIRECTED OTHERWISE. MOLD AND STORE CYLINDERS FOR LABORATORY CURED TEST SPECIMENS EXCEPT WHEN FIELD-CURE TEST SPECIMENS ARE REQUIRED.

13.11.6. COMPRESSIVE STRENGTH TESTS: ASTM C39, ONE SET FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF, OF EACH CONCRETE CLASS PLACED IN ANY ONE DAY OR FOR EACH 5,000 SQ. FT. OF SURFACE AREA PLACED. TEST ONE SPECIMEN AT 7 DAYS, TWO SPECIMENS AT 28 DAYS, AND RETAIN ONE SPECIMEN IN RESERVE FOR LATER TESTING IF REQUIRED.

13.11.7. WHEN FREQUENCY OF TESTING WILL PROVIDE LESS THAN 5 STRENGTH TESTS FOR A GIVEN CLASS OF CONCRETE, CONDUCT TESTING FROM AT LEAST 5 RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN 5 ARE USED.

13.11.8. WHEN STRENGTH OF FIELD-CURED CYLINDERS IS LESS THAN 85 PERCENT OF COMPANION LABORATORY-CURED CYLINDERS, EVALUATE CURRENT OPERATIONS AND PROVIDE CORRECTIVE PROCEDURES FOR PROTECTING AND CURING THE IN-PLACE CONCRETE.

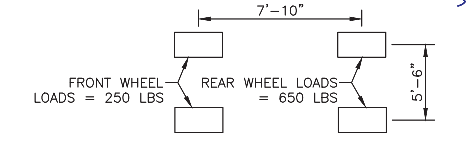
13.11.9. STRENGTH LEVEL OF CONCRETE WILL BE CONSIDERED SATISFACTORY IF AVERAGES OF SETS OF THREE CONSECUTIVE STRENGTH TEST RESULTS EQUAL OR EXCEED SPECIFIED COMPRESSIVE STRENGTH, AND NO INDIVIDUAL STRENGTH TEST RESULT FALLS BELOW SPECIFIED COMPRESSIVE STRENGTH BY MORE THAN 500 PSI.

13.12. TEST RESULTS WILL BE REPORTED IN WRITING TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND CONTRACTOR. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING AGENCY, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE BATCH IN STRUCTURE, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIX PROPORTIONS AND MATERIAL; COMPRESSIVE BREAKING STRENGTH AND TYPE OF BREAK FOR BOTH 7-DAY TESTS AND 28-DAY TESTS.

13.13. NONDESTRUCTIVE TESTING: IMPACT HAMMER, SONOSCOPE, OR OTHER NONDESTRUCTIVE DEVICE MAY BE PERMITTED BUT SHALL NOT BE USED AS THE SOLE BASIS FOR ACCEPTANCE OR REJECTION.

13.14. ADDITIONAL TESTS: THE TESTING AGENCY SHALL MAKE ADDITIONAL TESTS OF IN-PLACE CONCRETE WHEN TEST RESULTS INDICATE SPECIFIED CONCRETE STRENGTHS AND OTHER CHARACTERISTICS HAVE NOT BEEN ATTAINED IN THE STRUCTURE, AS DIRECTED BY THE STRUCTURAL ENGINEER. CONTRACTOR SHALL PAY FOR SUCH TESTS CONDUCTED AND ANY OTHER ADDITIONAL TESTING AS MAY BE REQUIRED WHEN UNACCEPTABLE CONCRETE IS VERIFIED.

ALABAMA LICENSED No.36284 PROFESSIONAL ENGINEER BRYAN A. COOLEY
Bryan A. Cooley
3-21-22



GOLF CART LOADS

SHEET NO. : 2-0

CANAL ROAD IMPROVEMENTS FROM SR-161 TO WILSON BOULEVARD

WOODEN PEDESTRIAN BOARDWALK STRUCTURAL PROJECT NOTES

REVISION NO. : 1
JOB NO. : 20-1101-0085
DATE : DEC 2021

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :
thompson ENGINEERING
THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE F-212
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

SCALE:	DRAWN BY:	CHECKED BY:	APPROVED BY:
—	BAC	RAH	BAC

REVISION NO.	DESCRIPTION	DATE	BY:
0	ISSUED FOR APPROVAL	4/9/21	BAC
1	ISSUED FOR BID	12/17/21	BAC

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1. ALL METERS SHALL BE INSTALLED OFF OF ALDOT RIGHT-OF WAY.

2. ALL MANHOLES, VALVE BOXES, AND HAND HOLES SHOULD BE FLUSH WITH EXISTING GROUND.

3. APPLICANT SHALL CONTACT THE DISTRICT ADMINISTRATOR 48 HOURS PRIOR TO BEGINNING WORK ON ALDOT RIGHT-OF-WAY. THE DISTRICT ADMINISTRATORS ARE AS FOLLOWS:

   AREA-9
   (91) MOBILE COUNTY - DAVID A. HOLLOWELL, (251) 470-8219
   (92) BALDWIN COUNTY - DAVID M. STYRON, (251) 937-2086
   (93) ESCAMBIA AND CONECUH COUNTIES - MICKEY T. JONES, (251) 578-7540

4. THE ENGINEER OF RECORD SHALL PROMPTLY WRITE AN AS-BUILT CERTIFICATION LETTER TO THE DISTRICT ADMINISTRATOR REQUESTING AN INSPECTION UPON COMPLETION OF THE PERMITTED WORK. ANY PUNCH LIST ITEMS SHALL BE COMPLETED PRIOR TO PROVISIONAL ACCEPTANCE OF WORK.

5. BONDS SUBMITTED FOR PERMITS SHALL BE HELD FOR A (1) ONE-YEAR MAINTENANCE PERIOD WHICH BEGINS ON THE PROVISIONAL ACCEPTANCE DATE ISSUED BY THE DEPARTMENT. DURING THIS TIME ANY FAILURES, DEFICIENCIES, OR MAINTENANCE CARE SHALL BE THE RESPONSIBILITY OF THE APPLICANT. AT THE END OF THE MAINTENANCE PERIOD THE APPLICANT OR ENGINEER OF RECORD SHALL SUBMIT A BOND RELEASE REQUEST LETTER TO THE DISTRICT ADMINISTRATOR. BONDS ARE NOT RELEASED WITHOUT REQUEST.

6. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) 2009 EDITION. (IF PROJECT NECESSITATES LANE CLOSURE, LANE CLOSURE MUST BE MADE PART OF THE PERMIT.)

7. ONSITE REPRESENTATIVES & CONTACT INFORMATION: TIM TUCKER, (251) 974-5492

8. ONSITE REPRESENTATIVES WILL HAVE ON HAND, AT ALL TIMES:
   (1) APPROVED PERMIT AND PLANS STAMPED BY THE REGION ENGINEER
   (2) TRAFFIC CONTROL PLANS
   (3) EROSION CONTROL PLANS

9. ALL DISTURBED AREAS ON ROW SHALL RECEIVE 4" OF TOPSOIL AND BE SODDED OR SEEDED AS DIRECTED BY THE DEPARTMENT.

10. ALL WORK ON THE ROW WILL BE IN CONFORMANCE WITH THE LATEST EDITION OF ALDOT STANDARD SPECIFICATIONS.

11. ELECTRIC POWER AND COMMUNICATION FACILITIES WILL CONFORM TO THE CURRENT APPLICABLE *NATIONAL ELECTRCAL SAFETY CODE*.

12. A BEST MANAGEMENT PLAN SHALL AT A MINIMUM RETURN ALL EXPOSED AREAS TO ORIGINAL OR BETTER CONDITION AND REQUIRE STAND OF GRASS AND/OR SOD BEFORE ACCEPTANCE. SILT FENCE AND ANY OTHER EROSION CONTROL ITEMS NEEDED SHALL BE USED TO PREVENT EROSION. (NO HAYBALES ARE ALLOWED IN ROW).

13. ALL TREES OVER 4" DBH SHALL NOT BE CUT/REMOVED WITHOUT WRITTEN PERMISSION FROM ALDOT.

14. ABSOLUTELY NO BORE PITS SHALL BE ALLOWED TO BE UNFILLED AND/OR UNCOVERED OVERNIGHT UNLESS PROTECTED. (BORE PITS HAVE A MAXIMUM OF 72 HOURS TO BE OPEN BEFORE FILLED.)

15. UPON COMPLETION & ANY TIME THEREAFTER, ALDOT RETAINS THE RIGHT TO REQUEST AN AS-BUILT PLAN OF ANY PERMITTED WORK IN SAID DEPARTMENT'S RIGHTS-OF-WAY (ROW).

16. WARNING: DO NOT DISTURB SURVEY MARKERS LOCATED ON ALDOT RIGHT-OF-WAY. ANY PROPERTY MARKERS DISTURBED DURING CONSTRUCTION SHALL BE RE-ESTABLISHED BY AN ALABAMA LICENSED PROFESSIONAL LAND SURVEYOR AT THE EXPENSE OF THE PERMIT APPLICANT.

17. THE TOTAL AREA TO BE DISTURBED DURING CONSTRUCTION OF THIS PERMIT: 12.72 ACRE(S). (ON & OFF ROW COMBINED)

18. WATER LINES SHALL CONFORM TO THE CURRENTLY APPLICABLE STANDARDS OF THE *AMERICAN WATER WORKS ASSOCIATION*.

19. PRESSURE PIPE LINES SHALL CONFORM TO THE CURRENTLY APPLICABLE SECTIONS OF AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).

20. AS REQUIRED BY ALABAMA ACT 94-487: CALL TWO WORKING DAYS BEFORE EXCAVATION 1-800-292-8525, ALABAMA LINE LOCATION CENTER, INC.

21. ALL EXISTING UTILITY FACILITIES IN THE PROPOSED WORK AREA HAVE BEEN PHYSICALLY LOCATED BOTH HORIZONTALLY AND VERTICALLY.
    A. THE UTILITY FACILITES IN THE AREA OF WORK ARE REPRESENTED TO THE BEST OF MY KNOWLEDGE, ACCORDING TO LOCATES PROVIDED BY 811 AND INDIVIDUAL DUE DILLIGENCE. ENGINEER INITIALS: C.D.W.
    B. 811 LOCATE REQUEST #MULTIPLE

22. ANY ORNAMENTAL VEGETATIVE LANDSCAPING (SHRUBS, FLOWERS, ORNAMENTAL GRASS, ETC.) DISTURBED DURING CONSTRUCTION SHALL BE REPLACED, TRANSPLANTED OR SODDED BY THE APPLICANT AS DIRECTED BY THE ALABAMA DEPARTMENT OF TRANSPORTATION DISTRICT ADMINISTRATOR.

23. ALL FILL MATERIAL OR ONSITE DEBRIS DEPOSITED IN THE RIGHT-OF-WAY SHALL BE REMOVED PRIOR TO ISSUANCE OF FINAL ACCEPTANCE TO BEGIN THE ONE YEAR MAINTENANCE PERIOD OF THE PERMIT CONTRACT.

24. THE APPLICANT SHALL SEE THAT ALL SOLID WASTE (I.E., WOOD, STUMPS, ETC.) IS DISPOSED OF IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM).

25. PROPERTY OBSTRUCTIONS WHICH ARE TO REMAIN IN PLACE, SUCH AS HISTORICAL STRUCTURES, TREES, DRAINS, WATER OR GAS PIPES, POLES, WALL, ETC., ARE NOT TO BE DISTURBED UNLESS NOTED AND APPROVED BY SHPO, ALDOT, ADEM, EPA, ETC.

26. THE APPLICANT IS RESPONSIBLE TO SEE THAT STREETS ARE CLEANED IMMEDIATELY AFTER CONCRETE OR OTHER DELIVERY TRUCKS LEAVE THE SITE. MUD AND DEBRIS ARE TO BE KEPT OFF STREETS AND OUT OF INLETS, DITCHES, ETC.

27. FUEL TANKS SHALL NOT BE STORED ON THE RIGH-OF-WAY OVERNIGHT. VEHICLES TRANSPORTING FUEL, CHEMICALS, FERTILIZERS, ETC. ONTO RIGHT-OF-WAY SHALL NOT BE LEFT UNATTENDED.

28. THE APPLICANT OR ENGINEER OF RECORD SHALL PROMPTLY NOTIFY ALDOT OF ANY PERCEIVED CONFLICTS, AMBIGUOUS ITEMS OR DEFICIENCIES IN THE PLANS, SPECIFICATIONS, GENERAL NOTES OR RELATED CONTRACT DOCUMENTS.

29. FOR WORK WITHIN INTERSTATE ROW, ALL INGRESS AND EGRESS TO WORKSITE SHALL BE FROM APPLICANT'S PROPERTY. NO ACCESS SHALL BE GAINED FROM THE INTERSTATE ROW. EQUIPMENT AND MATERIALS SHALL NOT BE STORED ON INTERSTATE ROW.

30. MILEPOSTS 28.32 TO 22.32 SPEED LIMIT 35 STOPPING SIGHT DISTANCE 250 FT

31. IS DRAINAGE/RUNOFF FROM THIS SITE DIRECTED ONTO STATE ROW? (CIRCLE) YES OR (NO)
    ENGINEER INITIALS: C.D.W.

32. ARE UTILITY, SIGNALS OR LIGHT POLE, RELATED CONFLICTS PRESENT OR ARE ANY RELOCATIONS REQUIRED FOR THIS PROJECT TO BE CONSTRUCTED AS PROPOSED IN THESE PLANS? (CIRCLE) (YES) OR NO
    ENGINEER INITIALS: C.D.W.

33. SHALL MINIMUM COVER OVER UTILITIES BE MAINTAINED UPON COMPLETION OF WORK? (CIRCLE) (YES) OR NO
    ENGINEER INTIALS: C.D.W.

34. THE LEGAL PERMIT APPLICANT IS HELD RESPONSIBLE AND LIABLE FOR ALL DAMAGES, ACTIONS, OR RESPONSIBILITES OF THEIR APPOINTED CONTRACTORS, ASSIGNS, OR APPOINTEES.

UTILITY OWNERS

ORANGE BEACH WATER AUTHORITY
25097 CANAL ROAD
ORANGE BEACH, AL 36561
CONTACT: JUDY SULLIVAN
251-981-4233

CITY OF ORANGE BEACH-SEWER
P.O. BOX 2432
ORANGE BEACH, AL 36561
CONTACT: JEFF HARTLEY
251-974-5617

HARBOR COMMUNICATIONS
P.O. BOX 2063
MOBILE, AL 36652
CONTACT: KEVIN POLK
251-753-6102

CENTURYLINK
19812 UNDERWOOD ROAD
FOLEY, AL 36535
CONTACT: FOREST CHERNEY
251-952-5286

MEDIACOM
25508 CABINET SHOP ROAD
LOXLEY, AL 36551
CONTACT: SCOTT MILLER
850-525-6863

SOUTHERN LIGHT, LLC
201 ST. JOSEPH STREET
SUITE E
MOBILE, AL 36602
CONTACT: JOHN HIXON
251-510-0080

POWER SOUTH
P.O. BOX 550
ANDALUSIA, AL 36420
CONTACT: PETE STONE
334-427-3306

BALDWIN EMC
P.O. DRAWER 220
SUMMERDALE, AL 36580
CONTACT: KEN PIMPERL
251-989-0134

CLARK-MOBILE COUNTIES GAS DISTRICT
P.O. BOX 3069
ORANGE BEACH, AL 36561
CONTACT: JEFF WHITE
251-974-5432

SHEET NO.: 2-P

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

ALDOT STANDARD NOTES

DATE: DEC 2021 | JOB NO.: 20-1101-0085 | REVISION NO.: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY: thompson ENGINEERING
THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE 102
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

CHECKED BY: -- | APPROVED BY: -- | DRAWN BY: -- | SCALE: --

REVISION NO.	DESCRIPTION	DATE	BY:
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(OVAL) DENOTES NOTES THAT APPLY TO THIS PROJECT

(700) THE TRAFFIC CONTROL PLAN IS DEVELOPED IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PART 6, 2009 EDITION. THE TRAFFIC CONTROL DEVICES INDICATED REPRESENT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS WARRANT ADDITIONAL TRAFFIC CONTROL DEVICES, THEY SHALL BE INSTALLED IN CONFORMANCE WITH THE M.U.T.C.D. PART 6 AS DIRECTED BY THE ENGINEER. COST SHALL BE PAID FOR UNDER THE APPROPRIATE PAY ITEM.

(701) ALL BLACK ON ORANGE CONSTRUCTION SIGNS SHALL BE FABRICATED USING TYPE XI FLUORESCENT ORANGE REFLECTIVE SHEETING MATERIAL FOR THE SIGN BACKGROUND.

(702) DURING NON-WORKING HOURS NO EQUIPMENT OR MATERIAL SHALL BE PARKED OR STORED CLOSER THAN 30 FEET TO THE EDGE OF ANY ROADWAY CARRYING TRAFFIC. WHEN THIS IS NOT PRACTICAL, IT SHALL BE PLACED IN AN AREA APPROVED BY THE ENGINEER AND DELINEATED BY REFLECTORIZED DRUMS. THIS INCLUDES STORAGE OF TRAFFIC CONTROL DEVICES SUCH AS TRAILER MOUNTED OR OTHER TEMPORARY SIGNS, BARRICADES, DRUMS, ETC., WHICH ARE NOT IN USE DURING NON-WORKING HOURS. TO BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE ALDOT. (SEE SKETCH ON SHEET_____)

(703) WHERE THE LOCATION OF A REQUIRED SIGN FALLS IN A DRIVEWAY, SIDEWALK, BRIDGE, ETC. OR WHERE THE VISIBILITY OF A SIGN IS LIMITED TO THE TRAVELING PUBLIC, THE LOCATION SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER.

(704) THE CONTRACTOR IS TO REMOVE, RELOCATE OR COVER DURING CONSTRUCTION AND THEN RESET OR UNCOVER UPON COMPLETION OF A PARTICULAR SECTION ANY CONFLICTING IN-PLACE ROADWAY SIGNS AND DELINEATORS, AS DIRECTED BY THE ENGINEER. SIGNS REQUIRING REMOVAL SHALL BE STOCKPILED AS DIRECTED BY THE ENGINEER AND SHALL BECOME PROPERTY OF THE ALDOT. COST SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740B.

(705) DURING ALL PHASES OF WORK, NON-APPLICABLE PAVEMENT STRIPING OR MARKINGS SHALL BE REMOVED AND APPROPRIATE PAVEMENT STRIPING OR MARKINGS SHALL BE PLACED AS EXPEDITIOUSLY AS PRACTICAL, BUT IN ALL CASES, SHALL BE IN PLACE BY NIGHTFALL ON ANY ROADWAY CARRYING TRAFFIC. EXCEPT ON SHORT TERM OPERATIONS WHERE IT IS DETERMINED BY THE ENGINEER, THAT SUCH REMOVAL AND REPLACEMENT IS MORE HAZARDOUS THAN LEAVING EXISTING MARKINGS IN PLACE. COST OF ANY REMOVAL SHALL BE PAID FOR UNDER ITEM 701D OR AS A SUBSIDIARY OBLIGATION OF ITEM 701C.

706 OMITTED

(707) THE CONTRACTOR SHALL PLACE ALL ADVANCE WARNING SIGNS BEFORE PROCEEDING WITH HIS WORK. SIGNS SHALL BE PLACED IN ORDER, IN THE DIRECTION OF TRAFFIC AND REMOVED IN REVERSE ORDER.

708 ALL VEHICLES, EQUIPMENT, PERSONNEL (EXCEPT FLAGGERS), AND THEIR ACTIVITIES, ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

(709) THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS TO BUSINESSES AND RESIDENCES DURING ALL PHASES OF CONSTRUCTION.

(710) CONSTRUCTION SIGNS MOUNTED ON TEMPORARY SUPPORTS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5 FEET.

(711) FLAGGERS SHALL BE PROPERLY ATTIRED, EQUIPPED WITH STAFF MOUNTED STOP/SLOW PADDLES IN SIGHT OF EACH OTHER, OR HAVE DIRECT COMMUNICATION AT ALL TIMES. FLAGGER STATION LOCATION MAY BE VARIED FROM THOSE SHOWN BASED ON ROADWAY ALIGNMENT AND CONDITIONS AT THE TIME OF THE LANE CLOSURE.

(712) FLAGGERS ARE TO BE USED WHEN DIRECTED BY THE ENGINEER. SIGNS SHALL BE PLACED AT THE APPROPRIATE TIME, AND SHALL BE COVERED OR REMOVED WHEN FLAGGERS ARE NOT ON DUTY AND DURING NON-WORKING HOURS.

(713) FOR MOVING OPERATIONS, THE TRAFFIC CONES MAY BE DELETED IF THE FLAGGERS ARE IN SIGHT OF EACH OTHER, OR IF A PILOT CAR IS USED ON A TWO LANE ROADWAY.

714 OMITTED

(715) ALL CONTRACTOR'S EMPLOYEES' PERSONAL VEHICLES, AND CONTRACTOR'S EQUIPMENT NOT IN OPERATION, SHALL BE PARKED A MINIMUM OF THIRTY (30) FEET FROM THE TRAVELED WAY DURING WORKING HOURS, AS NOT TO CREATE A HAZARD.

(716) THE TRAFFIC CONTROL PLAN IS NOT ALL INCLUSIVE. THE TCP PROVIDES SEVERAL DETAILED DRAWINGS INDICATING THE TRAFFIC CONTROL NECESSARY FOR THE DIFFERENT CONSTRUCTION ACTIVITIES ANTICIPATED FOR THIS PROJECT. THE CONTRACTOR SHALL SELECT THE DETAILED DRAWING THAT BEST FITS THE ACTIVITY TO BE PERFORMED.

717 OMITTED

718 REQUIRED TEMPORARY ROUTE MARKER ASSEMBLIES THAT ARE TO BE LOCATED IN THE VICINITY OF EXISTING ROUTE MARKERS SHOULD BE PLACED ALONG SIDE OF THOSE ALREADY IN PLACE. SOME EXISTING ROUTE MARKERS MAY HAVE TO BE COVERED OR REMOVED, AS DIRECTED BY THE ENGINEER. COST SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740B.

719 RA-1 (REBUILD ALABAMA) SIGNS SHALL BE REQUIRED FOR EVERY PROJECT. RA-1 SIGNS SHALL BE PLACED AT THE BEGINNING OF THE WORK LIMITS OF THE SUBJECT PROJECT ROUTE. RA-1 SIGNS SHALL BE POSTED ON THE RIGHT-HAND SIDE OF THE ROADWAY ON THEIR OWN SUPPORT SYSTEM. THE RA-1 SIGNS SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.

(720) ALL TRAFFIC CONTROL DEVICES THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

721 OMITTED

722 OMITTED

(723) THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SAFETY OF PEDESTRIAN TRAFFIC CROSSING THE WORK ZONES DURING CONSTRUCTION.

724 OMITTED

(725) ALL SIGNS SHALL BE POST-MOUNTED IF THE WORK PERIOD EXCEEDS FOUR DAYS, EXCEPT FOR THOSE SIGNS WHICH ARE MOUNTED ON BARRICADES. FOR REPEATED DAY OPERATIONS, SIGNS MAY BE MOUNTED ON TEMPORARY SUPPORTS AND REMOVED AT THE COMPLETION OF THE DAY'S OPERATION.

(726) W8 SIGNS INTENDED TO WARN MOTORISTS OF SURFACE CONDITIONS EXTENDING FOR GREATER THAN 1 MILE SHALL BE PLACED PRIOR TO THE BEGINNING OF SURFACE CONDITION AND AT ONE MILE INCREMENTS THEREAFTER, WITH THE EXCEPTION SPECIFIED IN NOTE 727.

(727) DURING THE WIDENING OR RESURFACING OF ANY ROADWAY CARRYING TRAFFIC, THE CONTRACTOR SHALL ADVISE THE MOTORISTS OF ANY EDGE OF PAVEMENT DROP-OFFS 3 INCHES OR GREATER BY PLACING SHOULDER DROP-OFF SIGNS EVERY 1/2 MILE BEGINNING PRIOR TO THE WIDENING OR RESURFACING. REQUIRED SHOULDER WORK TO ELIMINATE THE DROP-OFFS SHALL BE PURSUED IN AN EXPEDITIOUS MANNER FOLLOWING THE WIDENING AND/OR RESURFACING.

(728) A DIFFERENCE IN ELEVATION OF APPROXIMATELY 2 INCHES OR LESS AT THE CENTERLINE MAY BE ALLOWED DURING NON-WORKING HOURS WITHOUT ADDITIONAL TRAFFIC CONTROL. SPECIAL CONDITIONS MAY EXIST WHERE PROTECTION SHOULD BE PROVIDED WHERE THE DIFFERENCE IS 2 INCHES OR LESS.

(729) SIGNS ON TEMPORARY SUPPORTS ARE TO BE REMOVED OR COVERED WHEN NO WORK IS BEING PERFORMED OR AT THE COMPLETION OF THE DAY'S OPERATION.

730 OMITTED

731 OMITTED

(732) CHANNELIZING DRUMS SHOULD BE PLACED ON 10 FOOT INTERVALS IN RADII.

(733) CHANNELIZING DRUMS PLACED TO PROTECT COMPLETED WORK NOT OPEN TO TRAFFIC, SHOULD BE SPACED AT 50 FOOT INTERVALS.

(734) CHANNELIZING DRUMS PLACED IN THE EXCAVATED AREA AHEAD OF PAVING OPERATIONS, SHOULD BE SPACED AT 50 FOOT INTERVALS.

(735) CHANNELIZING DRUMS PLACED ON PAVEMENT DURING WORKING HOURS SHALL BE SHIFTED TO THE EDGE OF SHOULDER DURING NON-WORKING HOURS AND DURING PEAK PERIODS.

(736) CHANNELIZING DRUMS SHOULD BE PLACED ON 25 FOOT INTERVALS THROUGHOUT ALL TAPERS.

(737) CHANNELIZING DEVICES SHALL EXTEND TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.

738 OMITTED

739 OMITTED

740 OMITTED

741 FOR DIVIDED ROADWAYS, THE REQUIRED ADVANCE WARNING SIGNS SHALL BE POSTED ON BOTH THE RIGHT AND LEFT SIDE OF THE ROADWAY.

(742) THE CONTRACTOR SHALL CLOSE THE LANE ADJACENT TO THE WORK AREA ANYTIME WORK OUTSIDE THE EXISTING TRAVEL LANES ENCROACHES WITHIN 2 FEET OF THE EXISTING EDGE OF PAVEMENT.

743 OMITTED

(744) THE TRANSITION TAPER LENGTH (L) IS SHOWN IN TABLE 6C-4, AND THE BUFFER LENGTH IS SHOWN IN TABLE 6C-2 OF THE MUTCD, PART 6, 2009 EDITION.

745 OMITTED

746 UNEVEN LANES SIGNS SHALL BE COVERED OR REMOVED WHEN NO UNEVEN PAVEMENT CONDITIONS EXIST.

(747) MOVING OPERATIONS SHALL BE CONFINED TO ONE LANE IN THE DIRECTION OF TRAFFIC.

748 R16-3 (WHEN WORKERS ARE PRESENT BEGIN HIGHER FINES) AND R16-3a (END HIGHER FINES) SIGNS SHALL BE REQUIRED FOR EVERY PROJECT ON STATE ROUTES AND INTERSTATE HIGHWAYS. THESE SIGNS SHALL BE POSTED AT THE BEGINNING AND END OF THE PROJECT WITH AN R2-1 (REGULATORY SPEED SIGN) ALWAYS FOLLOWING THE R16-3 SIGN. ADDITIONAL R16-3 AND R2-1 SIGNS SHALL BE POSTED AT MAXIMUM INTERVALS OF THREE MILES THROUGHOUT THE PROJECT LIMITS.

(749) WHEN A CONSTRUCTION WORK ZONE SPEED LIMIT REDUCTION IS NOT REQUIRED AT THE END OF THE WORK DAY, THE CONTRACTOR SHALL COVER OR REMOVE THE REDUCED R2-1 (REGULATORY SPEED SIGNS) AND THE W3-5b (REDUCED SPEED AHEAD) SIGNS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

750 DURING REPLACEMENT OF GUARDRAIL AND/OR GUARDRAIL END ANCHORS, A REFLECTORIZED DRUM SHALL BE PLACED BEFORE THE END OF ANY EXPOSED GUARDRAIL AT NIGHT WHERE THE GUARDRAIL END CANNOT BE REPLACED IN ONE DAY'S TIME.

(751) CONSTRUCTION SIGNS MOUNTED ON A SINGLE OR DUAL SQUARE TUBULAR OR U-CHANNEL POST SHALL BE INSTALLED AS SHOWN ON SPECIAL DRAWING NOS. IHS-710-21 AND IHS-710-23.

(752) THE CONTRACTOR AND THE ENGINEER SHALL DISCUSS AND PLAN FOR THE HANDLING OF TRAFFIC FOR ALL HOLIDAYS BEFORE ANY WORK BEGINS. UNLESS OTHERWISE PRE-APPROVED BY THE REGION ENGINEER, THE FOLLOWING SHALL HOLD:

THE CONTRACTOR SHALL NOT HAVE A LANE CLOSURE DURING THE FOLLOWING PERIODS UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR ALDOT:

FOR CHRISTMAS AND NEW YEARS DAY:
FROM 11:59 PM DECEMBER 23 THROUGH 6:00 AM JANUARY 2.

FOR NATIONAL MEMORIAL DAY AND LABOR DAY:
FROM 12:00 NOON THE FRIDAY BEFORE THE HOLIDAY THROUGH 11:59 PM THE DAY OF THE HOLIDAY.

FOR INDEPENDENCE DAY (THE 4TH OF JULY)
FROM 12:00 NOON THE DAY BEFORE THE HOLIDAY THROUGH 11:59 PM THE DAY OF THE HOLIDAY.

FOR THANKSGIVING DAY:
FROM 12:00 NOON THE WEDNESDAY BEFORE THANKSGIVING DAY THROUGH 11:59 PM THE SUNDAY FOLLOWING THANKSGIVING DAY.

ANY OTHER STATE HOLIDAYS WILL BE HANDLED AS APPROVED BY THE ENGINEER.

THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND LOCAL GOVERNMENT ON TRAFFIC AND/OR WORK RESTRICTIONS FOR LOCAL HOLIDAYS OR EVENTS NOT LISTED ON ALDOT'S LIST OF OFFICIAL STATE HOLIDAYS.

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REVISIONS

DRAWN BY: _____
DATE DRAWN: 3/24/21

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

GENERAL TRAFFIC CONTROL PLAN NOTES

SPECIAL DRAWING NO. SPECIAL PROJECT DETAIL

INDEX NO. 2000

SHEET NO.: 2-Q

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

GENERAL TRAFFIC CONTROL PLAN NOTES

JOB NO.: 20-1101-0085
DATE: DEC 2021
REVISION NO.: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
251 MAGNOLIA AVENUE, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

PREPARED BY: thompson ENGINEERING
CHECKED BY: --
APPROVED BY: --
DRAWN BY: --
SCALE: --

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ITEM NUMBER	DESCRIPTION	UNIT	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL PLAN QUANTITY
201A-002	CLEARING AND GRUBBING (MAXIMUM ALLOWABLE BID $ 8,000 PER ACRE) (APPROXIMATELY 12.0 ACRES)	LUMP SUM	0.8	0.2	1
206C-000	REMOVING CONCRETE SIDEWALK	SQUARE YARD	2630	1091	372.
206C-010	REMOVING CONCRETE DRIVEWAY	SQUARE YARD	285	17	302
206C-017	REMOVING CONCRETE PAD	SQUARE YARD	0	17	17
206D-000	REMOVING PIPE	LINEAR FOOT	2705	0	2705
206D-002	REMOVING CURB	LINEAR FOOT	189	936	1125
206D-003	REMOVING CURB AND GUTTER	LINEAR FOOT	83	44	127
206D-011	REMOVING FENCE	LINEAR FOOT	0	303	303
206E-000	REMOVING HEADWALLS	EACH	47	0	47
206E-002	REMOVING JUNCTION BOXES	EACH	2	0	2
209A-000	MAILBOX RESET, SINGLE	EACH	16	0	16
209A-002	MAILBOX RESET, MULTIPLE	EACH	2	0	2
210A-000	UNCLASSIFIED EXCAVATION	CUBIC YARD	4556	2421	6977
210D-020	BORROW EXCAVATION (LOOSE TRUCKBED MEASUREMENT)(A2 OR BETTER)	CUBIC YARD	10932	4190	15122
214A-000	STRUCTURE EXCAVATION	CUBIC YARD	1636	664	2300
214B-001	FOUNDATION BACKFILL, COMMERCIAL	CUBIC YARD	677	261	938
230A-000	ROADBED PROCESSING	ROADBED STATION	70	0	70
301A-008	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 5" COMPACTED THICKNESS	SQUARE YARD	4800	4565	9365
301A-012	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS	SQUARE YARD	16307	0	16307
401A-000	BITUMINOUS TREATMENT A	SQUARE YARD	21106	4565	25671
405A-000	TACK COAT	GALLON	6440	758	7198
408A-052	PLANING EXISTING PAVEMENT (APPROXIMATELY 1.10" THRU 2.0" THICK)	SQUARE YARD	8858	3439	12297
410H-000	MATERIAL REMIXING DEVICE	EACH	1	0	1
424A-336	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 3/8" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B	TON	500	306	806
424A-360	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	4657	490	5147
424B-651	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	1852	217	2069
424B-655	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, PATCHING, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	251	12	263
424B-657	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, LEVELING, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	996	0	996
424B-681	SUPERPAVE BITUMINOUS CONCRETE LOWER BINDER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D	TON	1930	0	1930
430B-040	AGGREGATE SURFACING (CRUSHED AGGREGATE BASE, TYPE B)	TON	1698	500	2198
450A-006	REINFORCED CEMENT CONCRETE PAVEMENT,10 INCHES THICK	SQUARE YARD	664	0	664
516D-000	PEDESTRIAN BRIDGE	LUMP SUM	1	0	1
530A-001	18" ROADWAY PIPE (CLASS 3 R.C.)	LINEAR FOOT	218	18	236
530B-014	36" SPAN, 23" RISE ROADWAY PIPE (CLASS 3 R.C.) (EXTENSION)	LINEAR FOOT	0	18	18
532A-030	12" SLOTTED DRAIN PIPE	LINEAR FOOT	0	40	40
532A-032	18" SLOTTED DRAIN PIPE	LINEAR FOOT	100	60	160
533A-855	12" STORM SEWER PIPE	LINEAR FOOT	0	125	125
533A-097	15" STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	0	24	24
533A-098	18" STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	1546	90	1636
533A-099	24" STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	577	864	1441
533A-900	4" STORM SEWER PIPE (PVC)	LINEAR FOOT	22	0	22
533B-099	29" SPAN, 18" RISE STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	152	0	152
533B-100	36" SPAN, 23" RISE STORM SEWER PIPE (CLASS 3 R.C.)	LINEAR FOOT	13	0	13
535B-088	22" SPAN, 14" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	LINEAR FOOT	904	0	904
535B-090	18" SPAN, 11" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	LINEAR FOOT	56	0	56
535B-091	29" SPAN, 18" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	LINEAR FOOT	1532	0	1532
600A-000	MOBILIZATION	LUMP SUM	1	0	1
602A-000	RIGHT OF WAY MARKERS	EACH	9	0	9
608A-000	SEPARATION GEOTEXTILE	SQUARE YARD	4800	4565	9365
610A-004	LOOSE RIPRAP,CLASS 2,24" THICK	SQUARE YARD	0	11	11
610D-003	FILTER BLANKET, GEOTEXTILE	SQUARE YARD	0	16	16
614A-000	SLOPE PAVING	CUBIC YARD	1	0	1
618A-000	CONCRETE SIDEWALK, 4" THICK	SQUARE YARD	578	76	654
618A-001	CONCRETE SIDEWALK, 6" THICK	SQUARE YARD	1121	222	1343
618B-003	CONCRETE DRIVEWAY, 6" THICK (INCLUDES WIRE MESH)	SQUARE YARD	452	0	452
618C-002	DIRECTIONAL TACTILE WARNING SURFACE INDICATORS	SQUARE FOOT	56	0	56
618D-000	CURB RAMP	SQUARE YARD	375	97	472
619A-000	12" ROADWAY PIPE END TREATMENT, CLASS 1	EACH	0	1	1
619A-001	15" ROADWAY PIPE END TREATMENT, CLASS 1	EACH	0	1	1
619A-002	18" ROADWAY PIPE END TREATMENT, CLASS 1	EACH	5	0	5
619A-101	18" SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	5	1	6
619A-202	24" ROADWAY PIPE END TREATMENT, CLASS 1 (DOUBLE LINE)	EACH	0	1	1
619B-018	36" SPAN, 23" RISE ROADWAY PIPE END TREATMENT, CLASS 1	EACH	0	1	1
619B-115	18" SPAN, 11" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	2	0	2
619B-116	22" SPAN, 14" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	30	0	30
619B-117	29" SPAN, 18" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	EACH	38	0	38
619B-267	29" SPAN, 18" RISE ROADWAY PIPE END TREATMENT, CLASS 1 (DOUBLE LINE)	EACH	1	0	1
620A-000	MINOR STRUCTURE CONCRETE	CUBIC YARD	1	1	2
621A-011	JUNCTION BOXES, TYPE 1 OR 1P	EACH	37	0	37
621A-019	JUNCTION BOXES, TYPE 1 OR 2P	EACH	2	0	2
621C-140	INLETS, OPEN THROAT	EACH	4	0	4
621E-004	MANHOLES, TYPE L OR M (STORM)	EACH	3	2	5
621H-001	INLET TOPS, CURB & GUTTER	EACH	24	0	24
621H-002	INLET TOPS, CURB & GUTTER (DOUBLE)	EACH	7	0	7
621H-003	INLET TOPS, GUTTER	EACH	3	0	3

SHEET NO. : 3

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

SUMMARY OF QUANTITIES

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
27351 MARLYN STREET, SUITE
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

thompson ENGINEERING

CHECKED BY: --
APPROVED BY: --
SCALE: --
DRAWN BY: --

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

THIS DRAWING, REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE LOANED, REPRODUCED OR ALTERED WITHOUT EXPRESS WRITTEN CONSENT OF THE THOMPSON ENGINEERING REPRESENTATIVE RESPONSIBLE FOR ITS PREPARATION. ANY UNAUTHORIZED USE SHALL BE SUBJECT TO LEGAL ACTION UNDER STATE AND FEDERAL LAW.

003_SUM.dgn
2021.12.21 14:13:10

ITEM NUMBER	DESCRIPTION	UNIT	RESTORE GRANT QUANTITY	CITY PROJECT QUANTITY	TOTAL PLAN QUANTITY
623A-000	CONCRETE GUTTER	LINEAR FOOT	368	0	368
623B-000	CONCRETE CURB, TYPE N	LINEAR FOOT	2209	897	3106
623B-001	CONCRETE CURB, TYPE N SPECIAL	LINEAR FOOT	208	0	208
623B-150	CONCRETE CURB, TYPE RIBBON	LINEAR FOOT	242	0	242
623B-151	CONCRETE CURB, TYPE TRUCK APRON	LINEAR FOOT	633	0	633
623C-000	COMBINATION CURB & GUTTER, TYPE C	LINEAR FOOT	1599	102	1701
623C-003	COMBINATION CURB & GUTTER, TYPE C (MODIFIED)	LINEAR FOOT	22	0	22
645J-500	MANHOLE CONE RESET	EACH	4	0	4
645K-500	MANHOLE FRAME AND COVER RESET	EACH	4	0	4
650A-000	TOPSOIL	CUBIC YARD	1890	2100	3990
654A-001	SOLID SODDING (BERMUDA)	SQUARE YARD	31200	4700	35900
665A-000	TEMPORARY SEEDING	ACRE	7	1	8
665B-001	TEMPORARY MULCHING	TON	21	3	24
665E-000	POLYETHYLENE	SQUARE YARD	1000	500	1500
665G-000	SAND BAGS	EACH	500	250	750
665I-000	TEMPORARY RIPRAP, CLASS 2	TON	500	250	750
665J-002	SILT FENCE	LINEAR FOOT	13728	1000	14728
665N-001	TEMPORARY COARSE AGGREGATE,ALDOT NUMBER 4	TON	600	300	900
665O-001	SILT FENCE REMOVAL	LINEAR FOOT	13728	1000	14728
665P-005	INLET PROTECTION, STAGE 3 OR 4	EACH	80	0	80
665Q-002	WATTLE	LINEAR FOOT	1500	100	1600
666A-001	PEST CONTROL TREATMENT	ACRE	7	1	8
674A-000	CONSTRUCTION SAFETY FENCE	LINEAR FOOT	1000	500	1500
680A-001	GEOMETRIC CONTROLS	LUMP SUM	1	0	1
701A-227	SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	MILE	3	1	4
701A-230	SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	MILE	4	1	5
701A-244	BROKEN YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	MILE	2	0	2
701B-207	DOTTED, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	LINEAR FOOT	3356	0	3356
701C-003	SOLID TEMPORARY TRAFFIC STRIPE (PAINT)	MILE	13	0	13
701D-005	SOLID TRAFFIC STRIPE REMOVED	MILE	7	0	7
703A-002	TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A	SQUARE FOOT	8911	1391	10302
703B-002	TRAFFIC CONTROL LEGENDS, CLASS 2, TYPE A	SQUARE FOOT	292	45	337
703D-002	TEMPORARY TRAFFIC CONTROL MARKINGS (PAINT)	SQUARE FOOT	4456	696	5152
705A-030	PAVEMENT MARKERS, CLASS A-H, TYPE 2-C	EACH	214	0	214
705A-031	PAVEMENT MARKERS, CLASS A-H, TYPE 1-A	EACH	40	0	40
705A-032	PAVEMENT MARKERS, CLASS A-H, TYPE 1-B	EACH	70	0	70
705A-037	PAVEMENT MARKERS, CLASS A-H, TYPE 2-D	EACH	188	7	195
705A-038	PAVEMENT MARKERS, CLASS A-H, TYPE 2-E	EACH	11	0	11
707F-001	FLEXIBLE DELINEATOR POST WITH BASE, YELLOW	EACH	21	3	24
707H-000	RAISED CURB CHANNELIZER, YELLOW	LINEAR FOOT	462	0	462
710A-160	CLASS 10 ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE XI BACKGROUND)	SQUARE FOOT	177	0	177
710A-165	CLASS 10 ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE XI BACKGROUND, FLUORESCENT)	SQUARE FOOT	119	0	119
710A-170	CLASS 4, ALUMINUM FLAT SIGN PANELS 0.08" THICK (TYPE IV BACKGROUND)	SQUARE FOOT	216	0	216
710B-021	ROADWAY SIGN POST (#3 U CHANNEL, GALVANIZED STEEL OR 2 ", 14 GA SQUARE TUBULAR STEEL)	LINEAR FOOT	1092	98	1190
710C-000	REMOVAL OF EXISTING ROADWAY SIGNS	LUMP SUM	1	0	1
711A-000	ROADWAY SIGN RELOCATION	LUMP SUM	1	0	1
740B-000	CONSTRUCTION SIGNS	SQUARE FOOT	750	500	1250
740D-000	CHANNELIZING DRUMS	EACH	500	250	750
740E-000	CONES (36 INCHES HIGH)	EACH	250	125	375
740F-001	BARRICADES, TYPE II	EACH	10	50	60
740F-002	BARRICADES, TYPE III	EACH	10	0	10
740I-002	WARNING LIGHTS, TYPE B	EACH	20	50	70
740M-001	BALLAST FOR CONE	EACH	250	125	375
741C-010	PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT	EACH	2	0	2
742A-001	PORTABLE CHANGEABLE MESSAGE SIGN, TYPE 2	EACH	2	0	2

SHEET NO. : 3-A

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

SUMMARY OF QUANTITIES

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :
THOMPSON ENGINEERING, INC.
3531 MAIN STREET, SUITE 2-202
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

thompson ENGINEERING

CHECKED BY: --
APPROVED BY: --
DRAWN BY: --
SCALE: --

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE USED FOR ANY OTHER PROJECT OR PURPOSE WITHOUT THE EXPRESS, WRITTEN CONSENT OF THE THOMPSON ENGINEERING REPRESENTATIVE RESPONSIBLE FOR THE DESIGNS. ANY UNAUTHORIZED USE IS SUBJECT TO LEGAL ACTION UNDER STATE AND FEDERAL LAW.

003_SUM.dgn
2021.12.21 14:11:17

SHEET NO. : 4

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PLAN SHEET

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251 MAGNOLIA STREET, SUITE 2-D
ORANGE BEACH, ALABAMA 36561
(251) 370-6990

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. :
APPROVED BY: -- | CHECKED BY: -- | DRAWN BY: --
SCALE: HORIZ 1"=30'

BEGIN WORK
BL CANAL RD (SR-180)
M.P. 28.32
STA 665+00.00

BEGIN PROJECT
BL CANAL RD
STA 667+54.83

STA 666+25.25

664+00 665+00 666+00 667+00 668+00 669+00

662+00 663+00 88+00 89+00

"ACE HARDWARE"
"BEACHES"
"THE COMMONS"
"FBX"
"WEST 180"
"ASB"
"CURVE"
"TPNR"
"JUNC"
"BUSINESS SIGNS"
"CHURCH"
"STREET"
"NP"
"YIELD"
"LIBRARY"
"I-10 TOLL"
I-S-BR-BUS

PRES ROW
FENCE WOOD
CONST LIM

BL CANAL ROAD
N69° 23'15.63"E

S89° 44'44.02"E

BL SR-161
N0° 18'33.53"E

PC 1
N=1062290.725
E=1942040.288

MATCHLINE STA 670+00
SHEET 5

PT
STA 669+69.14
N=1062336.440
E=1943083.701

IN-PL 22"SX13"R
RCP & HDWL (RET)
INV (W) = 15.27'
INV (E) = 15.42'

IN-PL 29"SX18"R
RCP & 2-HDWL (RET)
INV (W) = 15.11'
INV (E) = 15.08'

IN-PL 22"SX13"R
RCP & 2-HDWL (RET)
INV (S) = 14.92'
INV (N) = 14.47'

IN-PL 36"SX23"R RCP
& 2-HDWL (REM)
INV (W) = 15.40'
INV (E) = 15.13'

IN-PL CONC DRIVEWAY
(SAWCUT & REM)

IN-PL 9" PVC (RET)
INV (W) = 14.85'
IN-PL GRATE INLET (RET)
RIM = 16.17'
INV = 13.83

SD 2

END WORK
BL SR-161
M.P. 1.70
STA 88+20.44

54.9' 45.8' 40.58' 39.22' 54.8' 45.8'

SCALE (FEET) 30 0 30

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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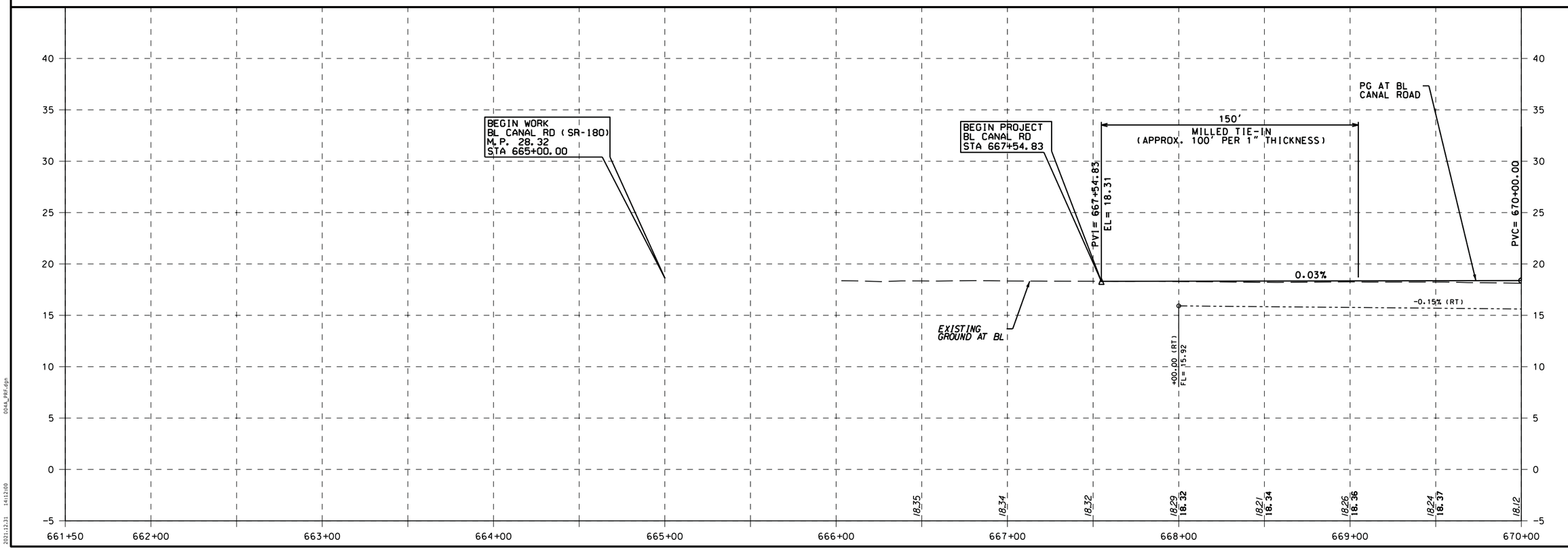
2021.12.31 14:11:57

SEE SHEET 4 FOR PLAN VIEW

SCALE (FEET) 30 HORIZ 0 30 5 VERT 0 5



SHEET NO. : 4-A

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PROFILE SHEET

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

CHECKED BY: -- | APPROVED BY: -- | DRAWN BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

THOMPSON ENGINEERING, INC.
2731 MAIN STREET, SUITE 2-202
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

REVISION NO.	DESCRIPTION	DATE	BY:

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2021.12.21 14:12:00
0944_PRF.dgn

SHEET NO. : 5

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PLAN SHEET

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
4171 MAIN STREET, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

thompson ENGINEERING

DATE :	JOB NO. :	REVISION NO. :
DEC 2021	20-1101-0085	--

DRAWN BY:	CHECKED BY:	APPROVED BY:
--	--	--

PREPARED BY :

SCALE: HORIZ 1"=30'

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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END WORK
BL CALLAWAY DRIVE
STA 11+59.77

END WORK
BL CALLAWAY DRIVE
STA 9+13.94

BL CANAL ROAD
S89° 44' 44.02"E

BL CALLAWAY DR
N0° 02' 39.15"W

BL CALLAWAY DR
N0° 22' 15.75"E

MATCHL INE STA 670+00
SHEET 4

MATCHL INE STA 678+50
SHEET 6

IN-PL 15" CPP (REM)
INV (W) = 14.89'
INV (E) = 14.83'

IN-PL 24" CPP (RET)
INV (N) = 7.15'
INV (S) = 13.75'

IN-PL 15" RCP (REM)
INV (W) = 14.96'
INV (E) = 14.76'

IN-PL CONC SIDEWALK (REM)

IN-PL 15" CMP (REM)
INV (W) = 15.90'
INV (E) = 15.44'

IN-PL DRIVEWAY (PERMANENTLY REM)

IN-PL 29"SX18"R RCP (REM)
INV (W) = 15.51'
INV (E) = 15.44'

IN-PL DRIVEWAY (PERMANENTLY REM)

IN-PL 2-29"SX18"R RCP (REM)
INV (N) = 14.44'
INV (S) = 14.59'
INV (N) = 14.13'
INV (S) = 14.58'

IN-PL CONC SIDEWALK (SAWCUT & REM)

IN-PL CONC SIDEWALK (RET)

IN-PL CONC SIDEWALK (REM)

IN-PL 15" CMP & 2-HDWL (REM)
INV (W) = 15.45'
INV (E) = 15.10'

IN-PL 15" RCP (REM)
INV (W) = 14.48'
INV (E) = 14.27'

IN-PL CONC SIDEWALK (REM)

IN-PL CONC DRIVEWAY (SAWCUT & REM)

IN-PL CONC DRIVEWAY (RET)

IN-PL 18"SX11"R RCP (REM)
INV (W) = 15.13'
INV (E) = 14.70'

IN-PL CONC DRIVEWAY (SAWCUT & REM)

IN-PL 18" RCP (REM)
INV (W) = 14.63'
INV (E) = 14.53'

671+00 672+00 673+00 674+00 675+00 676+00 677+00 678+00
13+00 12+00 11+00 10+00 9+00 8+00

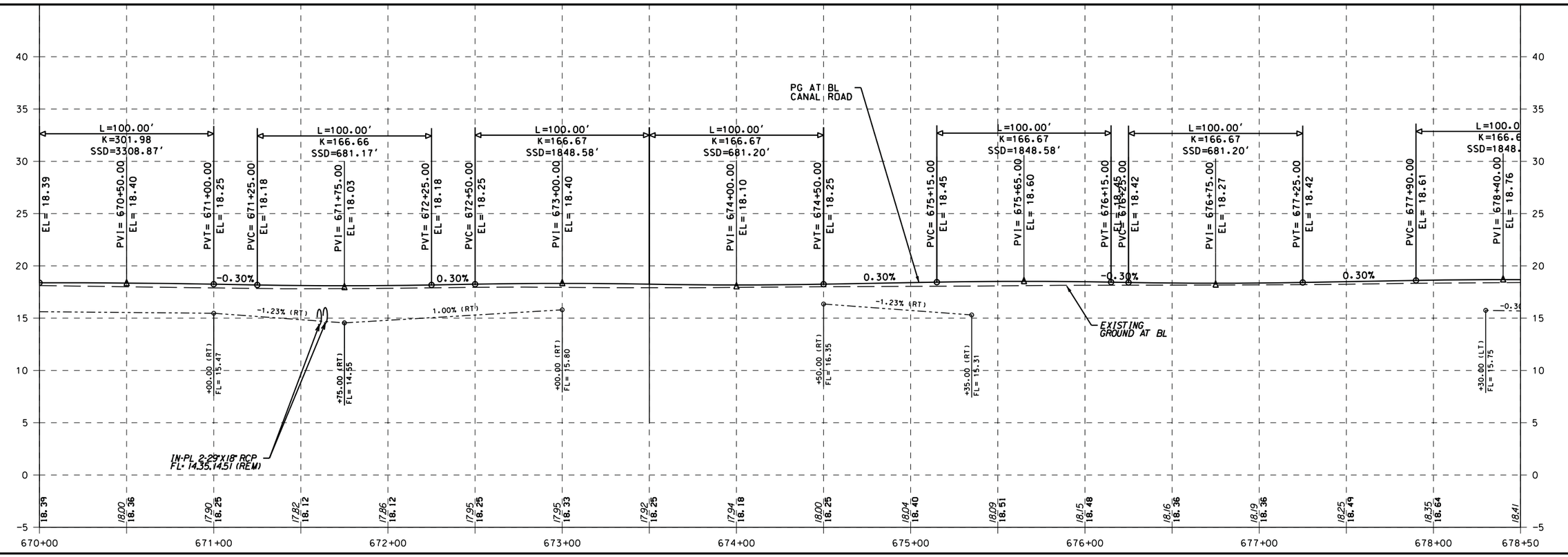
PRES ROW
CONST LIM
FENCE WOOD
"DNE" "UAHR" "SIGN" "REST" "SL50" "TYSTREET" "TYS" "STOP" "HPGL"

SCALE (FEET) 30 0 30

2021.12.31 14:12:04 003_PLN.dgn

SEE SHEET 5 FOR PLAN VIEW

SCALE (FEET) 30 HORIZ 0 30 — 5 VERT 0 5



SHEET NO.: 5-A

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PROFILE SHEET

DATE: DEC 2021 | JOB NO.: 20-1101-0085 | REVISION NO.:

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY:

DRAWN BY: | CHECKED BY: -- | APPROVED BY: -- | DATE: --

SCALE: HORIZ 1"=30' VERT 1"=5'

THOMPSON ENGINEERING, INC.
7731 MAIN STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

REVISION NO.	DESCRIPTION	BY:	DATE
REVISION NO.	DESCRIPTION	BY:	DATE
REVISION NO.	DESCRIPTION	BY:	DATE
REVISION NO.	DESCRIPTION	BY:	DATE

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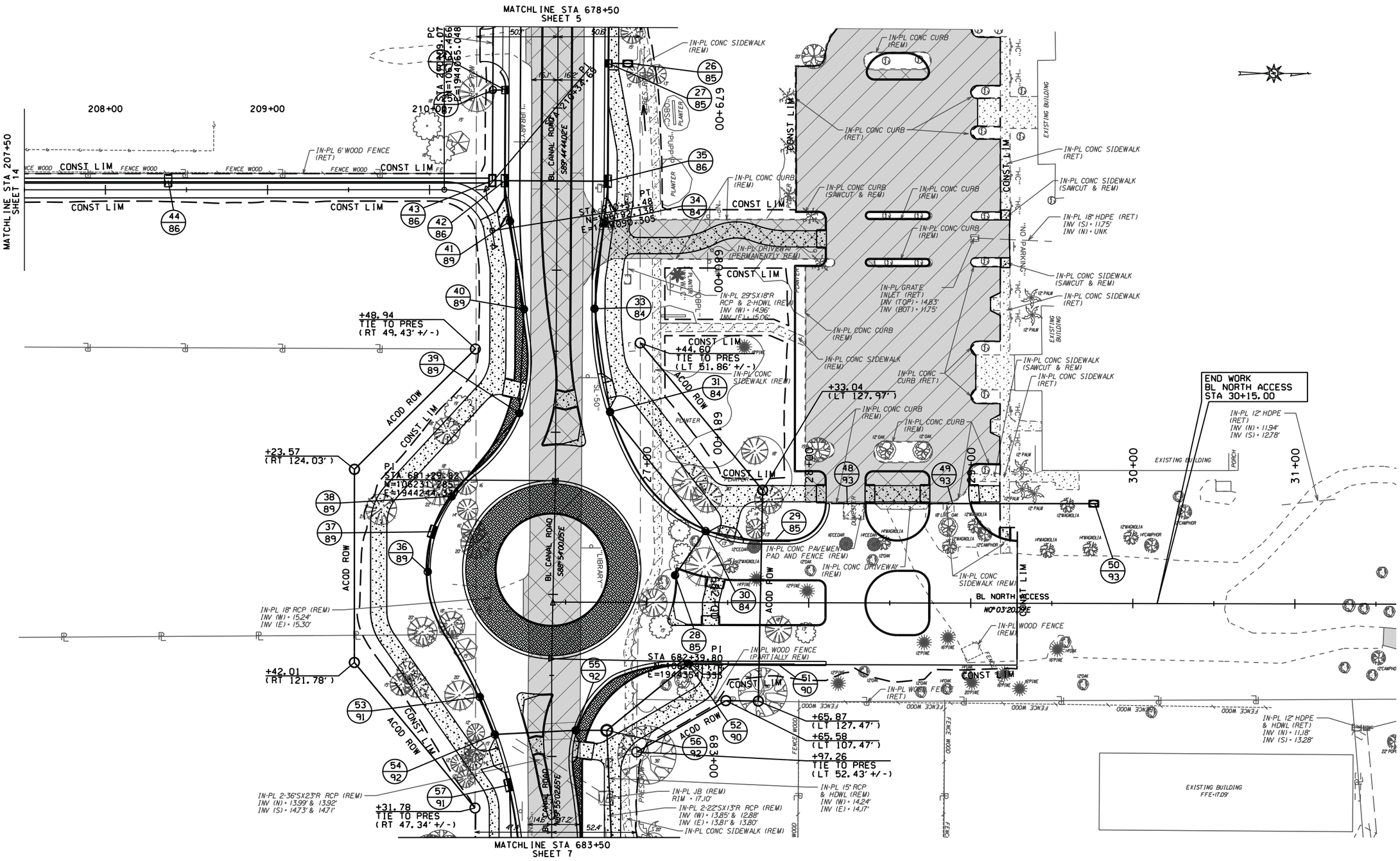
2021.12.21 14:12:06 055A_PRF.dgn



SHEET NO. : 6

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PLAN SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. :
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'
PREPARED BY :

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE 2-202
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

thompson ENGINEERING

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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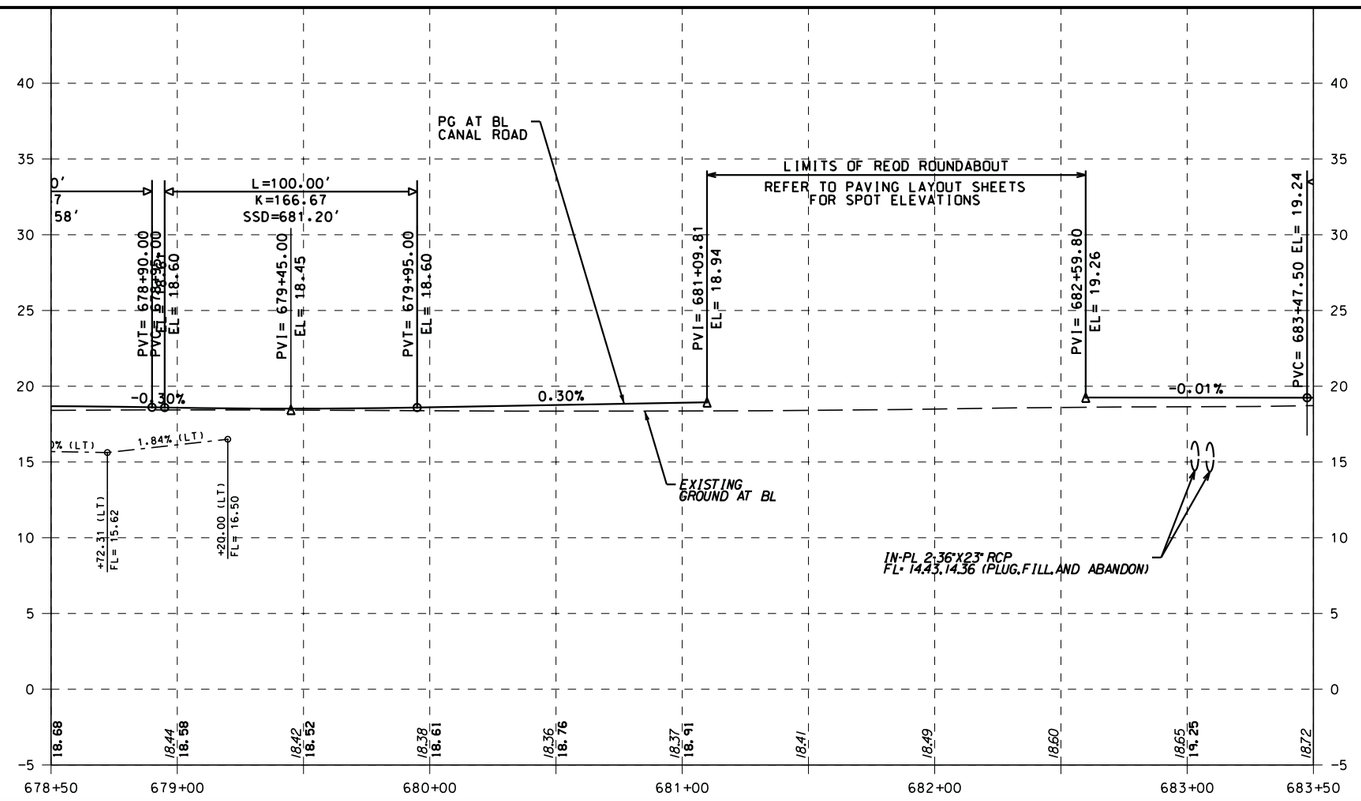
006_PLN.dgn
2021.12.31 14:12:09

SEE SHEET 6 FOR PLAN VIEW

SCALE (FEET) 30 HORIZ 0 30 — 5 VERT 0 5



SHEET NO. : 6-A

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PROFILE SHEET

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
7731 MAIN STREET, SUITE 2-232
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

CHECKED BY: -- | APPROVED BY: -- | DRAWN BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

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REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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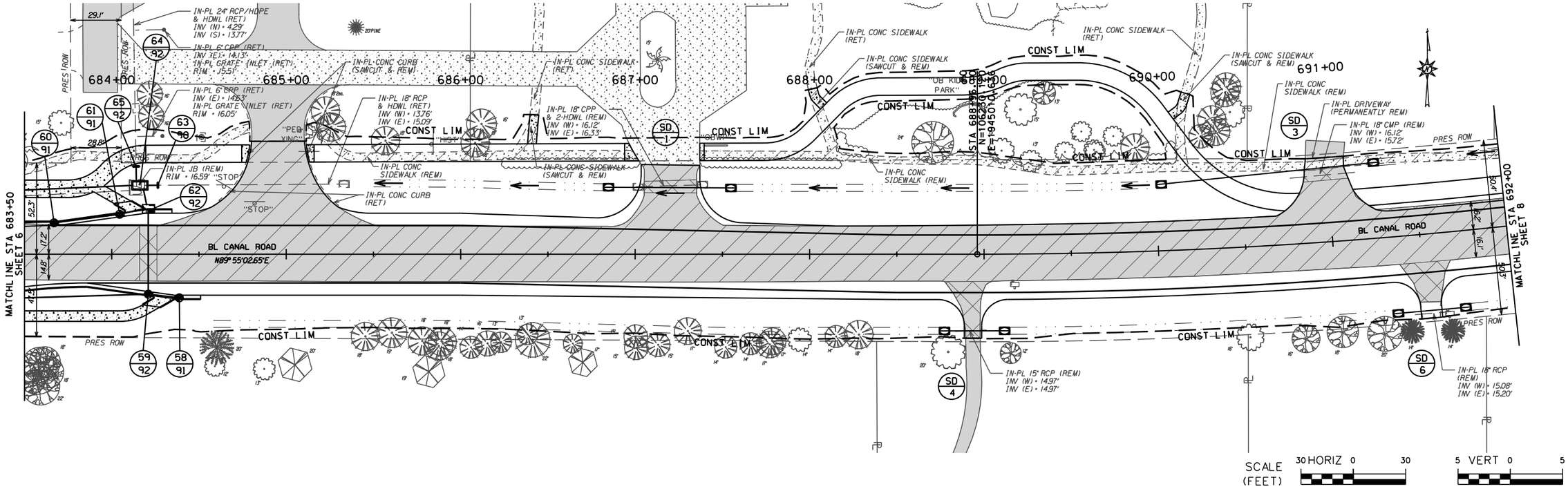
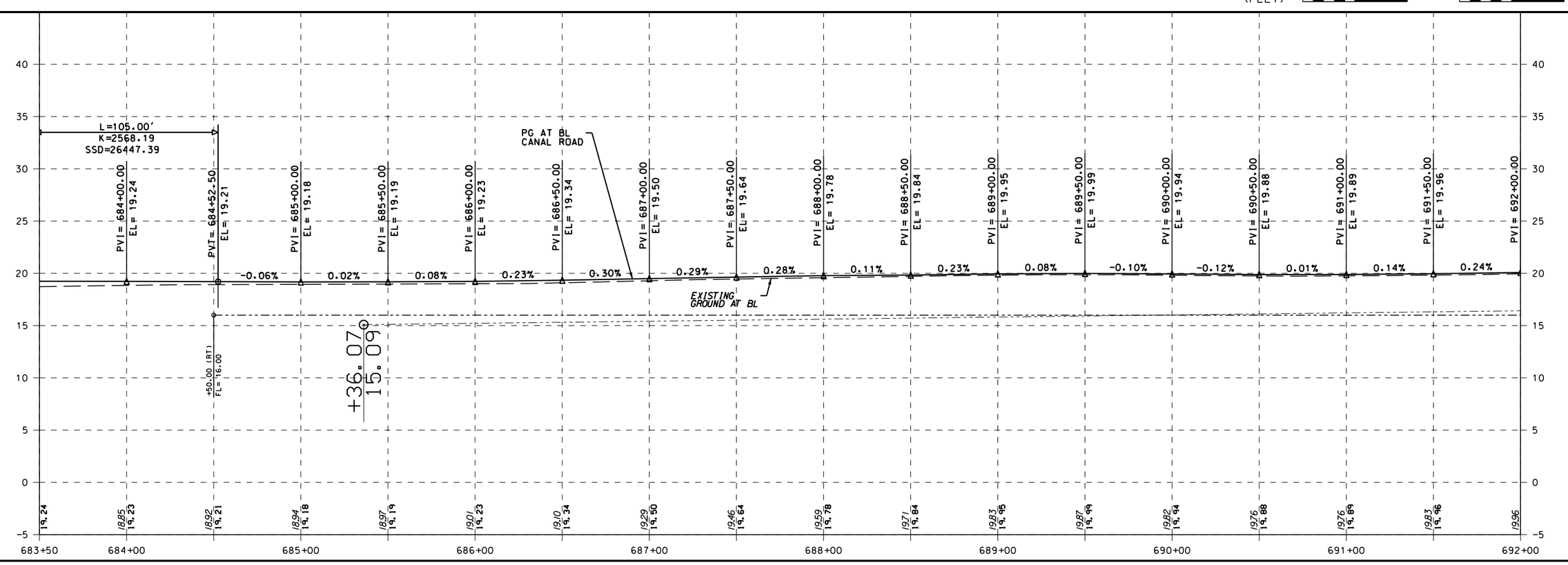
2021.12.31 14:12:13 066A_PRF.dgn





SHEET NO. : 7

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PLAN AND PROFILE SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
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CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'
VERT 1"=5'

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
25351 ARNOLD STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

thompson ENGINEERING

ORANGE BEACH ALABAMA

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REVISION NO.	DESCRIPTION	DATE	BY:

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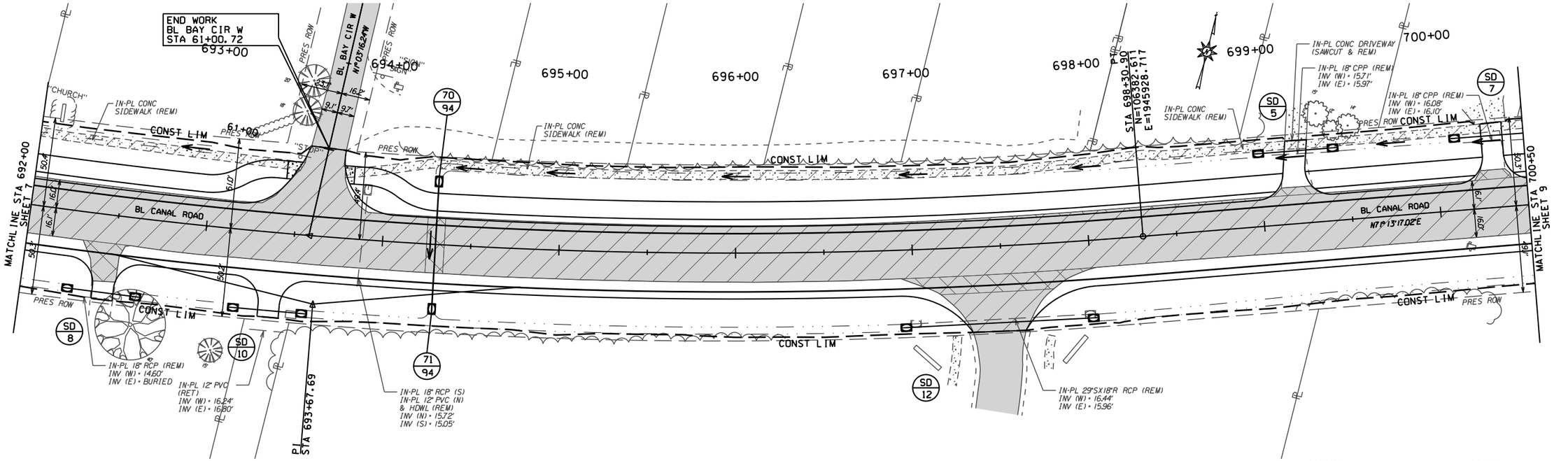
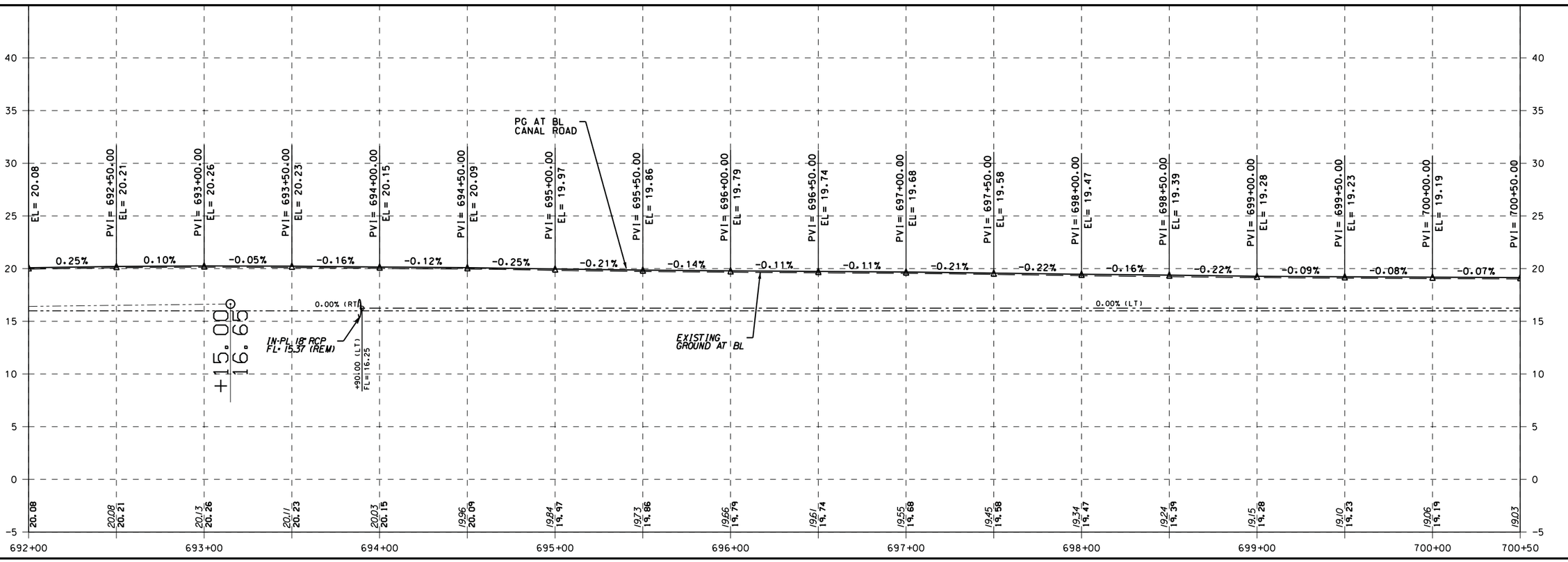
007_PPR.dgn





SHEET NO. : 8

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PLAN AND PROFILE SHEET

REVISION NO. : --
JOB NO. : 20-1101-0085
DATE : DEC 2021
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SCALE: HORIZ 1"=30'
VERT 1"=5'

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
25761 MARCK STREET, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

thompson ENGINEERING

ORANGE BEACH ALABAMA

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REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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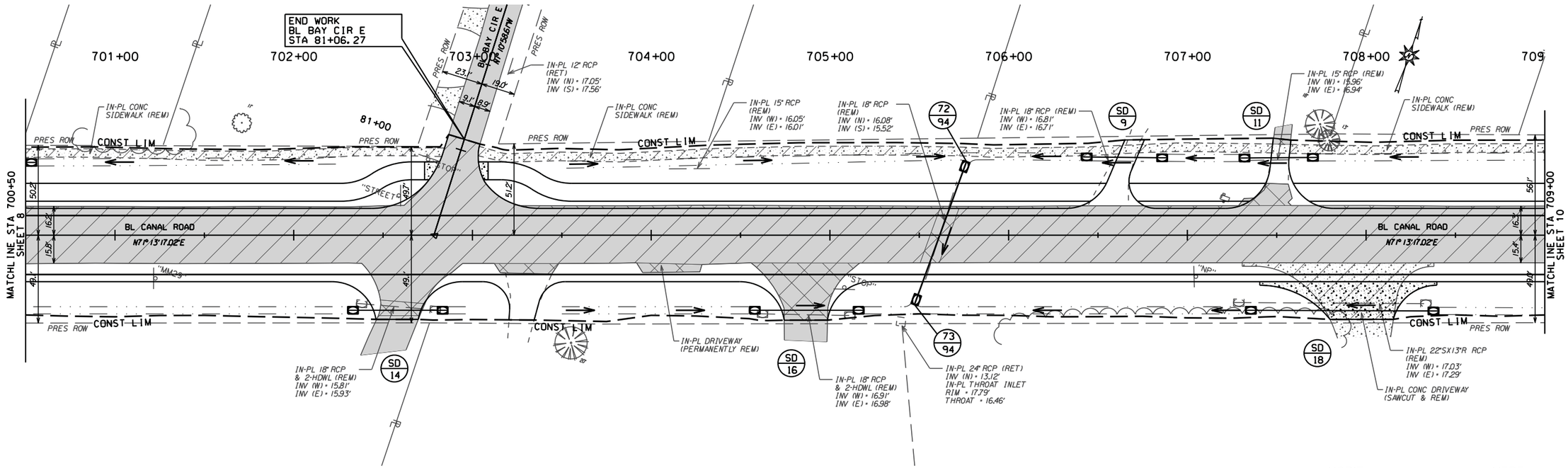
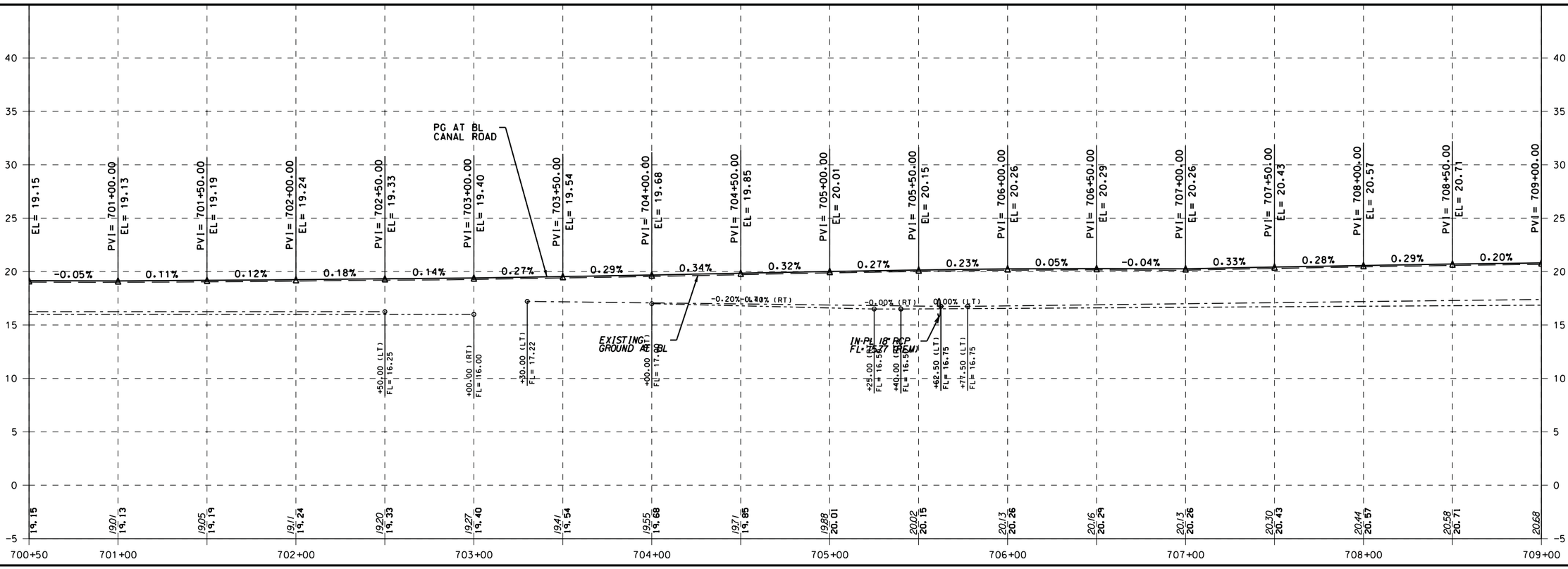
008_PPR.dgn
2021.12.21 14:12:18





CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PLAN AND PROFILE SHEET

SHEET NO. : 9

JOB NO. : 20-1101-0085

DATE : DEC 2021

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251 MAGNOLIA AVENUE, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

CHECKED BY: -- APPROVED BY: --

DRAWN BY: -- SCALE: HORIZ 1"=30' VERT 1"=5'

REVISION NO. : --

REVISION NO.	DESCRIPTION	DATE	BY:
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009_PPR.dgn
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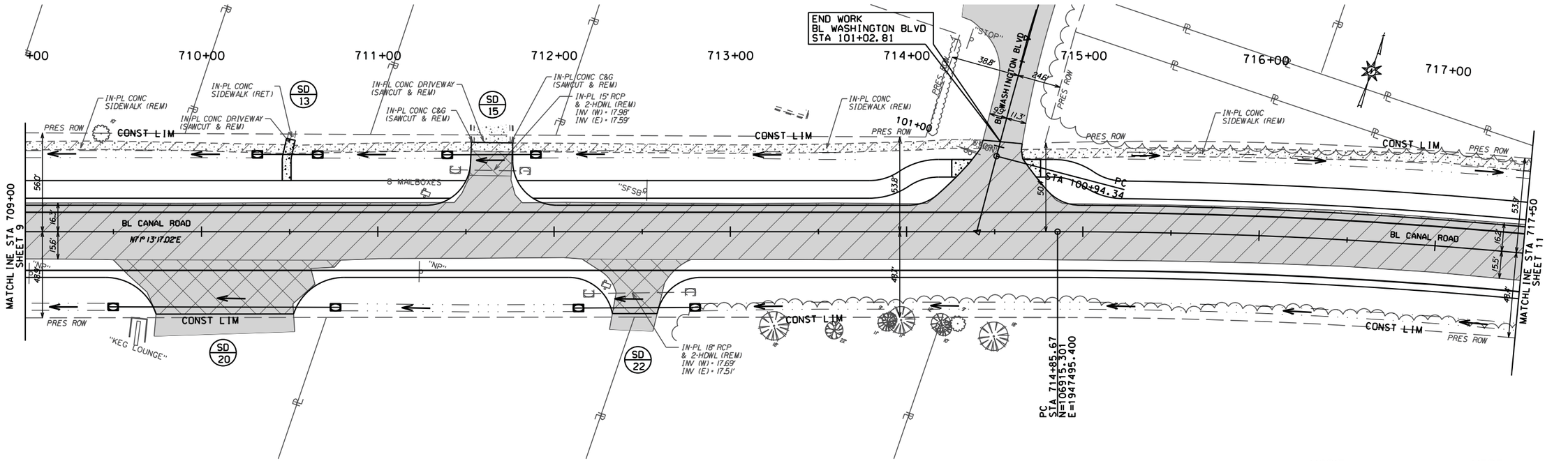

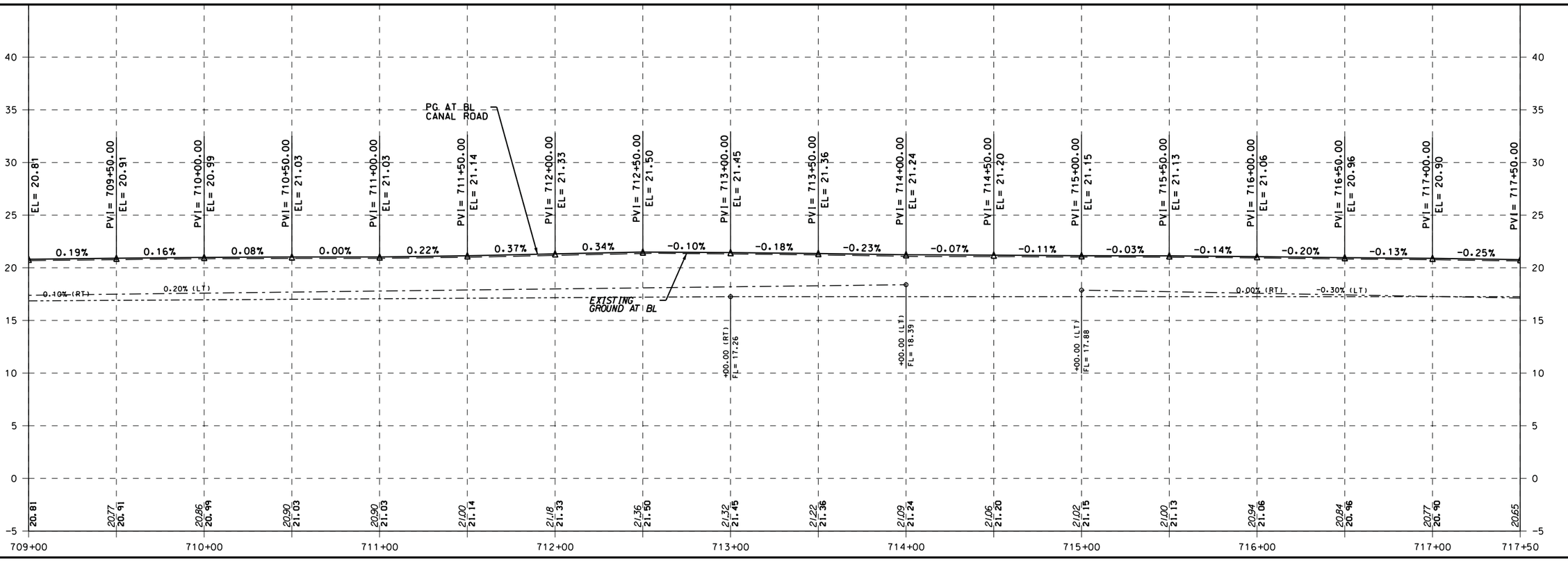

SHEET NO. : 10

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PLAN AND PROFILE SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
25351 ARCH STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

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SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	BY:	DATE

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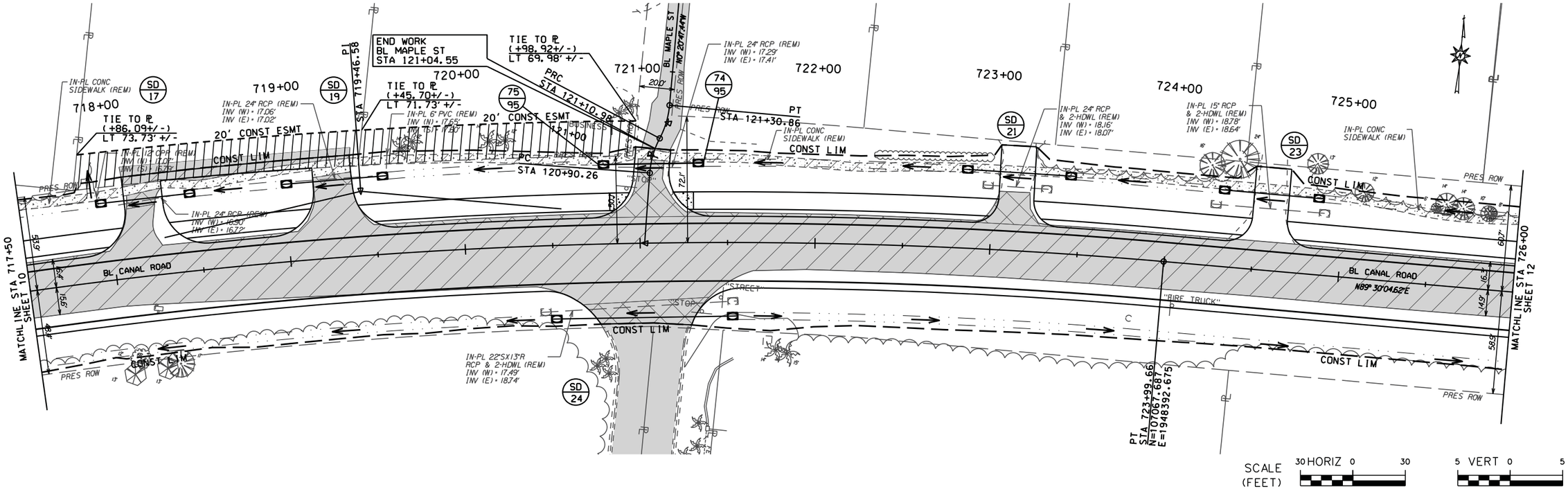

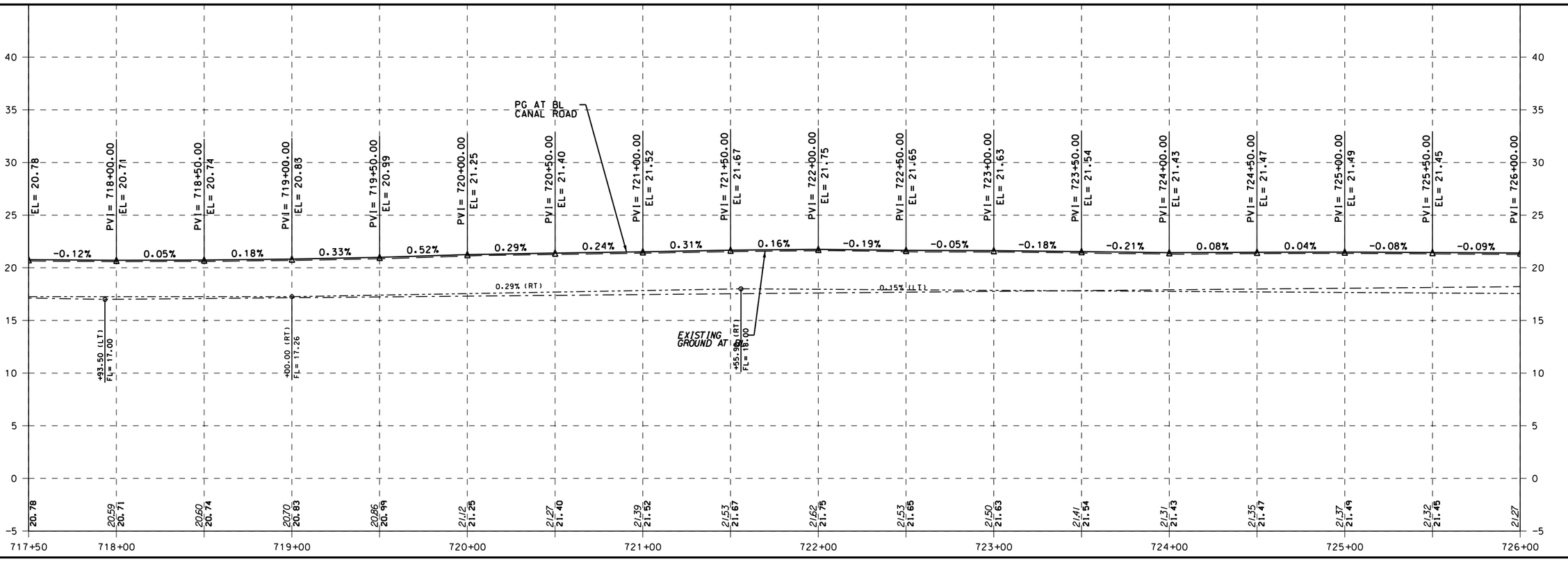

SHEET NO. : 11

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PLAN AND PROFILE SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
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CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251 McMEANS AVENUE, SUITE 2
DAPHNE, ALABAMA 36526
(251) 378-6990

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SCALE: HORIZ 1"=30'
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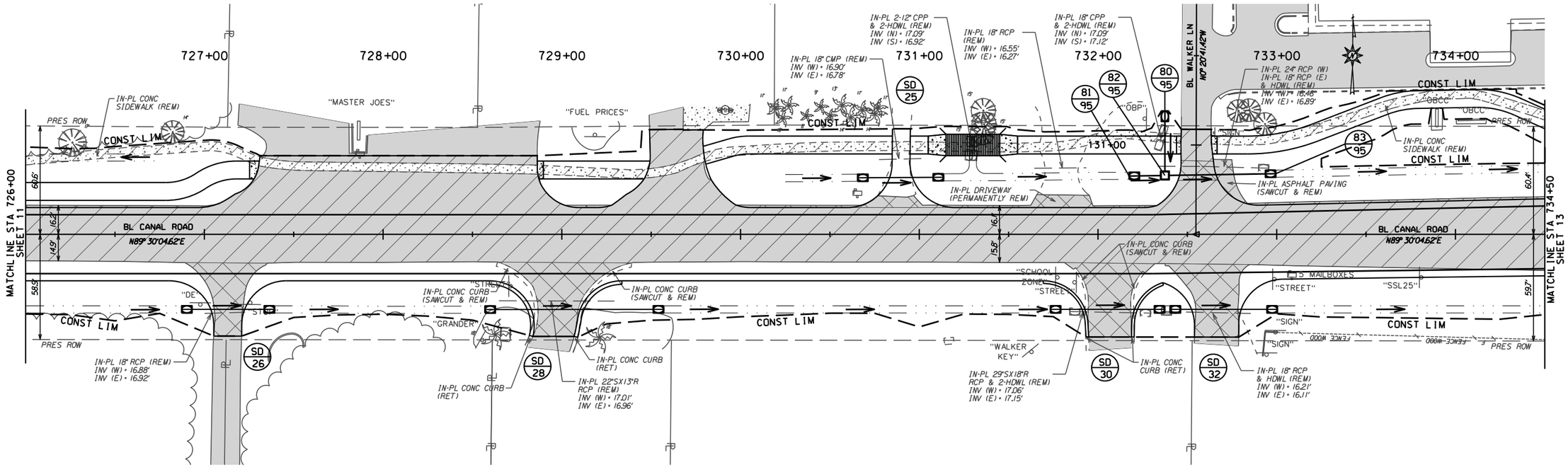

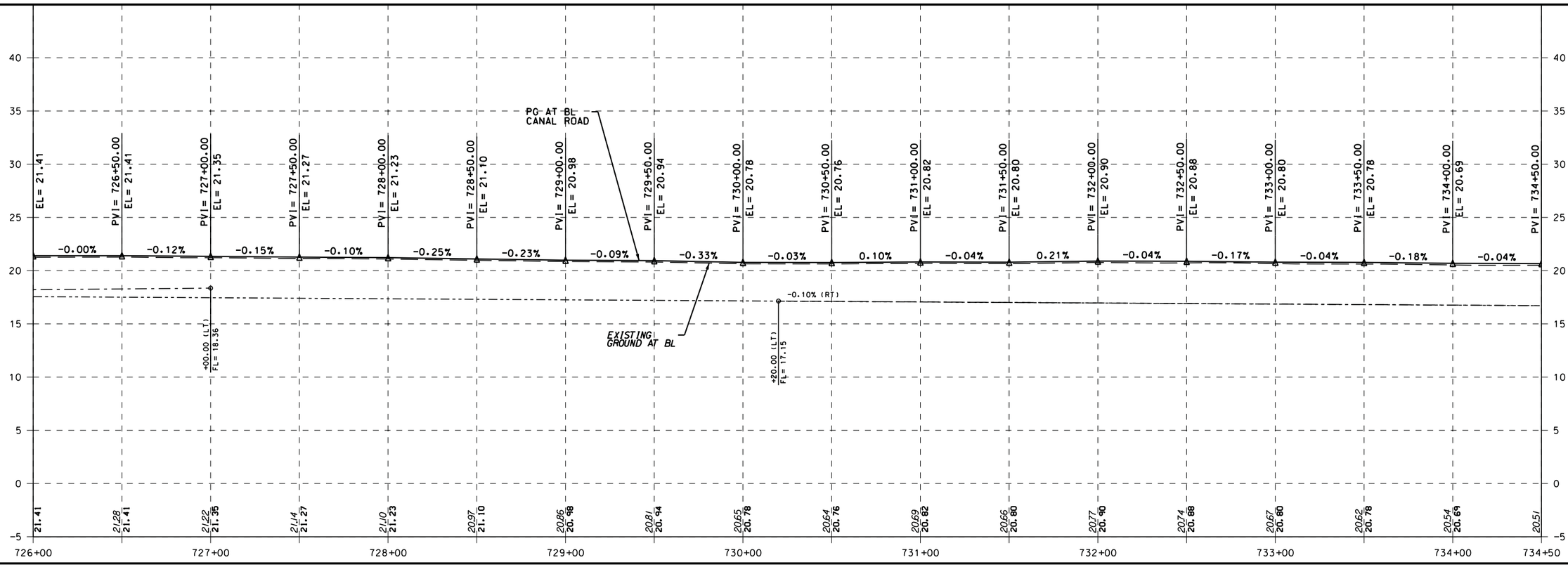

SHEET NO. : 12

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PLAN AND PROFILE SHEET

REVISION NO. : --
JOB NO. : 20-1101-0085
DATE : DEC 2021
APPROVED BY: --
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SCALE: HORIZ 1"=30'
VERT 1"=5'

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
27351 MARLYN ROSE BLVD, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

thompson ENGINEERING

ORANGE BEACH ALABAMA

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REVISION NO.	DESCRIPTION	DATE	BY:
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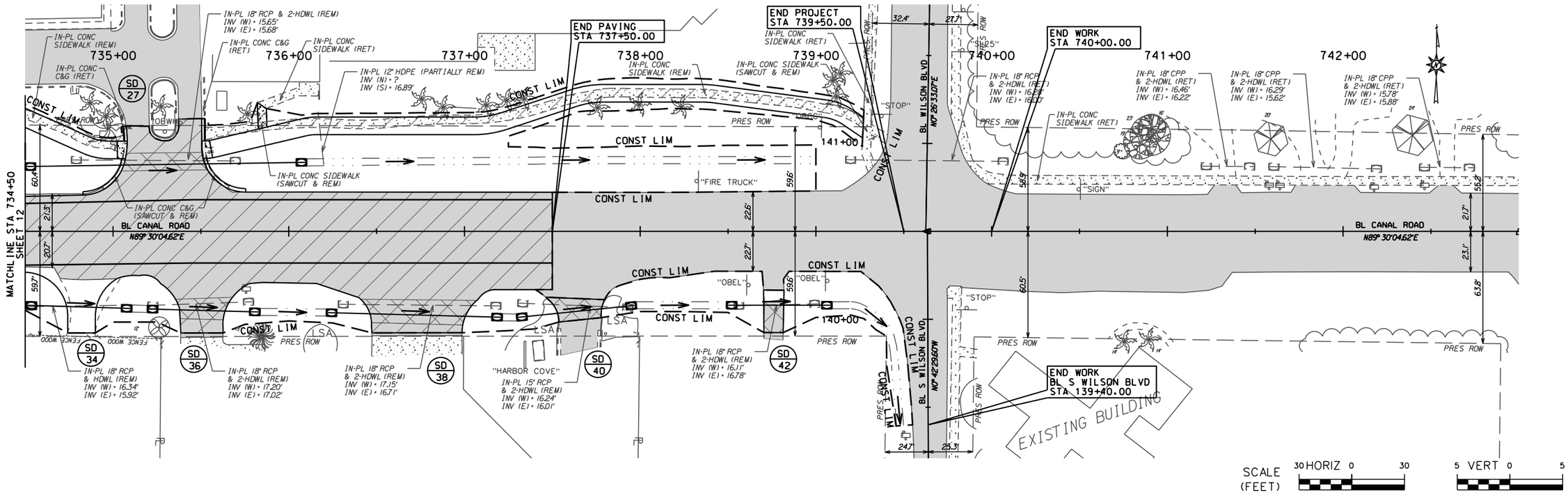

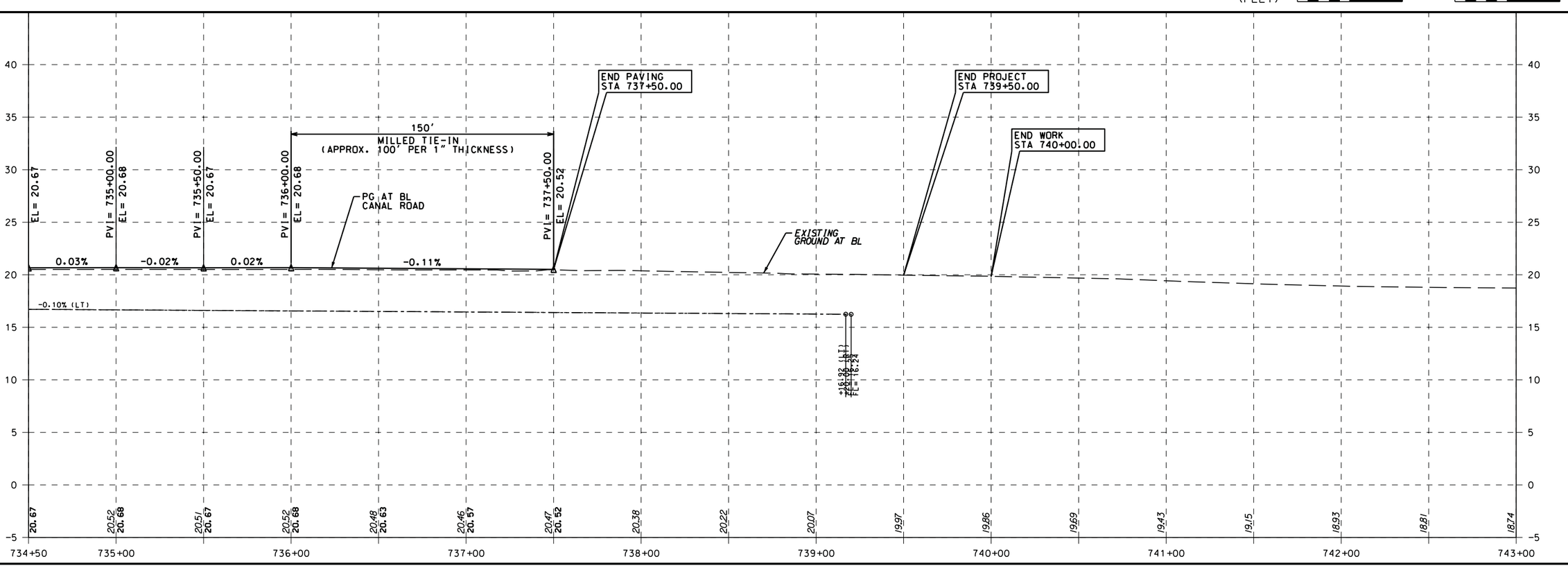

SHEET NO. : 13

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PLAN AND PROFILE SHEET

REVISION NO. : --
JOB NO. : 20-1101-0085
DATE : DEC 2021
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CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

SCALE: HORIZ 1"=30'
VERT 1"=5'

THOMPSON ENGINEERING, INC.
CA #0012
27351 MARLYN STREET, SUITE
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

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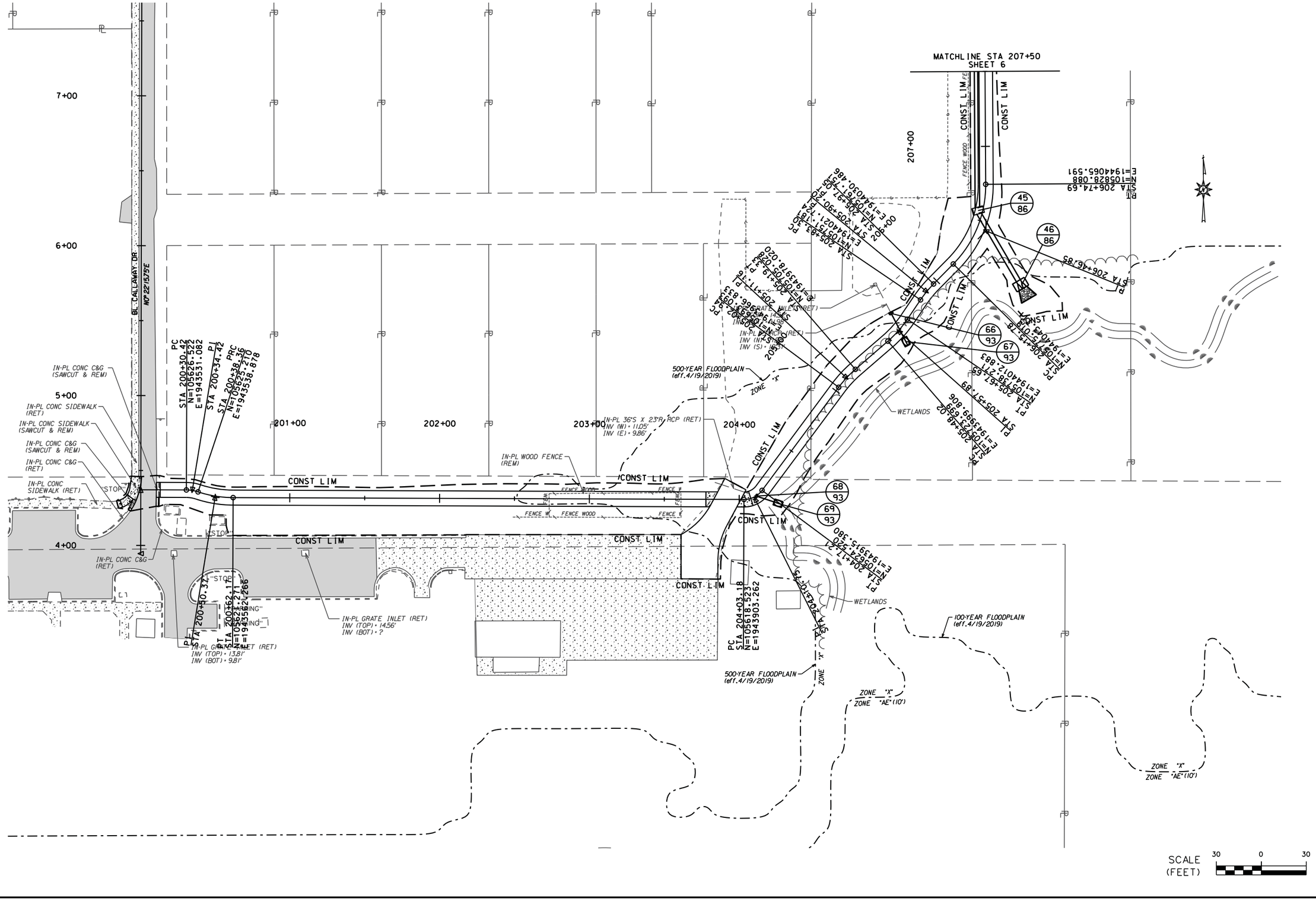

SHEET NO. :	14

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PLAN SHEET

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
4334 MAIN STREET, SUITE 102
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

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SCALE: HORIZ 1"=30'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
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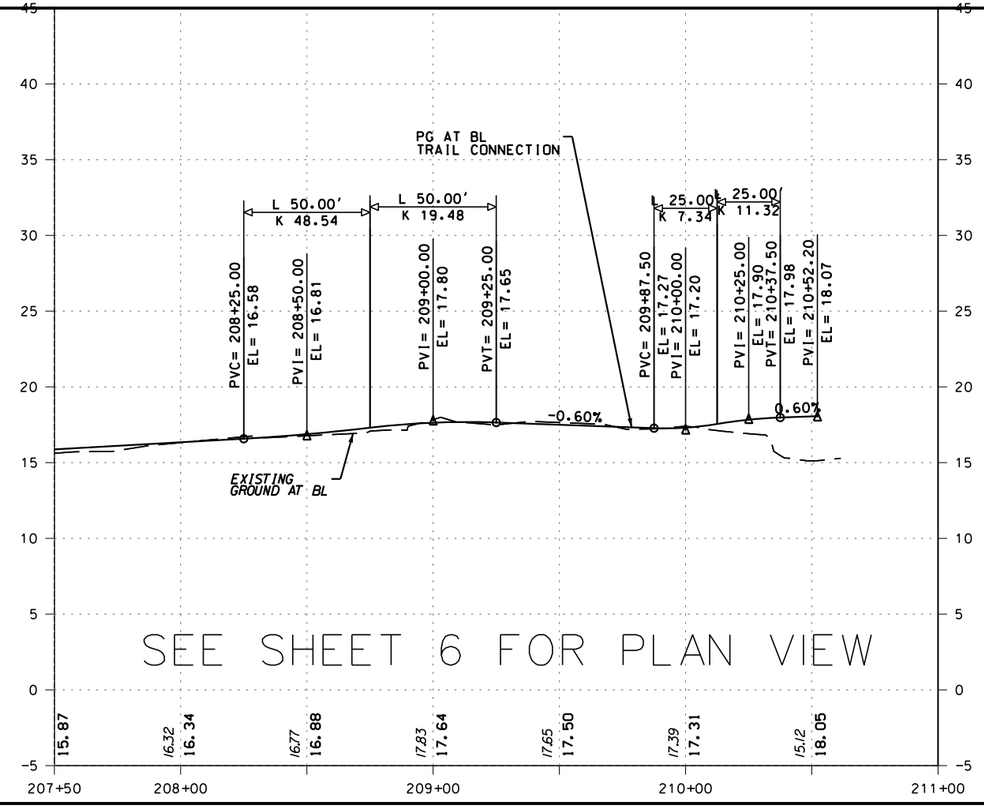
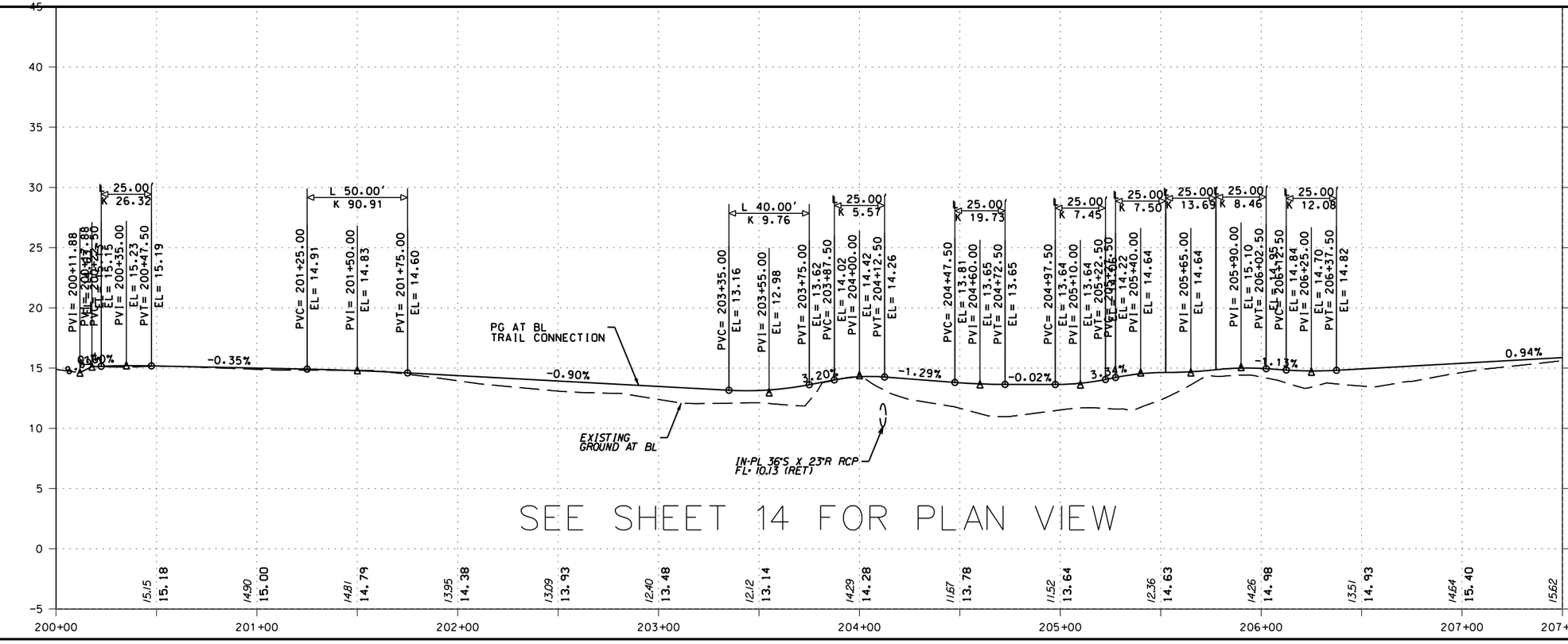


SCALE (FEET) 30 HORIZ 0 30 5 VERT 0 5



SHEET NO. : 14 - A

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PROFILE SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
27331 JAMES CHASE, SUITE 103
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

thompson ENGINEERING

PREPARED BY :

DRAWN BY: -- CHECKED BY: -- APPROVED BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

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REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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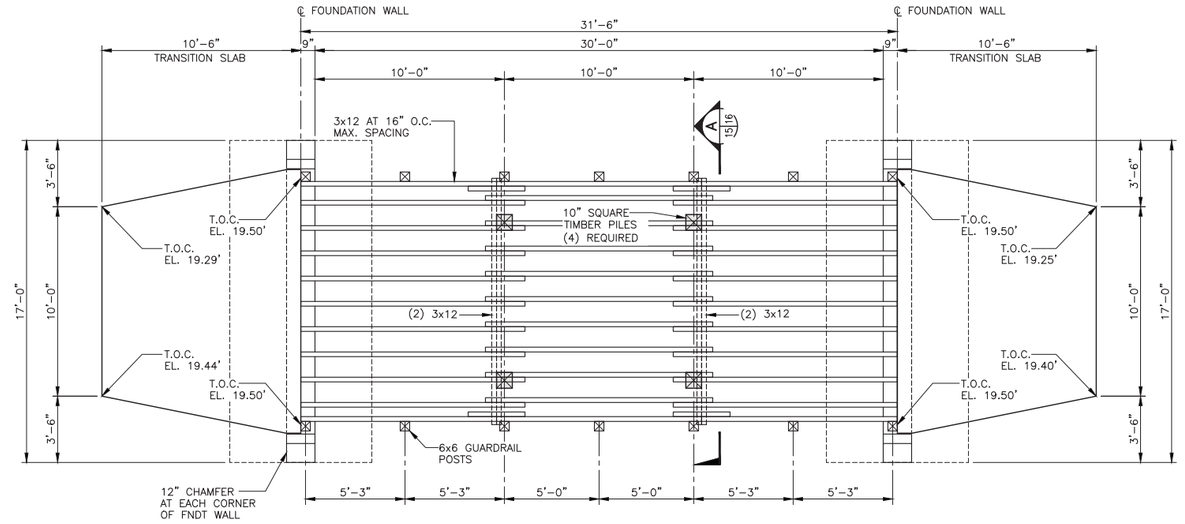
2021.12.31 14:12:38 014A_PRF.dgn

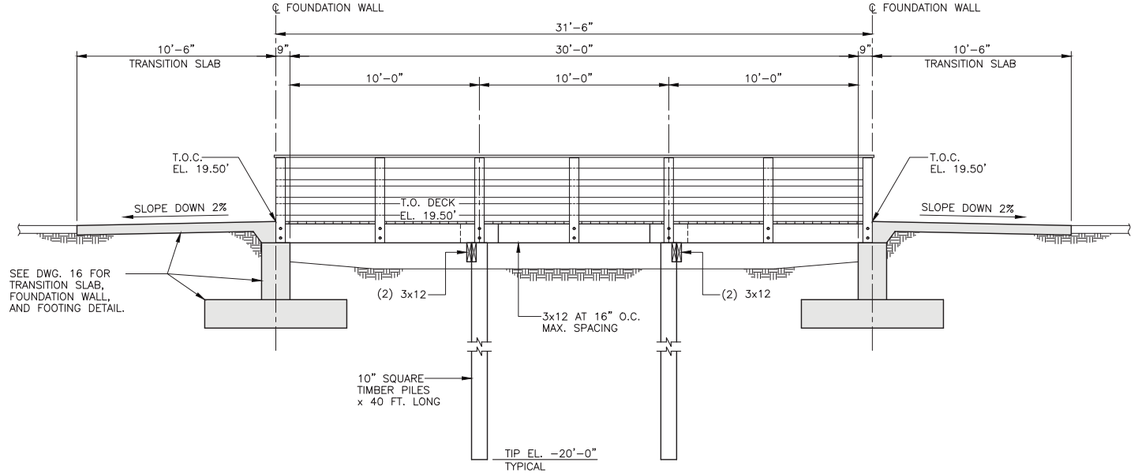
DRAWING NOTES:

1. SEE SHHET 2–O FOR STRUCTURAL NOTES.
2. ROUGH–SAWN LUMBER MAY BE USED IN LIEU OF DIMENSIONAL LUMBER PROVIDED THAT ANY ROUGH–SAWN LUMBER BE CERTIFIED BY A LUMBER GRADING OR INSPCTION AGENCY MEETING THE REQUIREMENTS OF IBC 2018 SECTION 2303.1. ELEVATIONS AND DIMENSIONS SHOWN ARE FOR DIMENSIONAL LUMBER AND ADJUSTMENT MUST BE MADE IF ROUGH–SAWN LUMBER IS USED.



WOODEN PEDESTRIAN BOARDWALK – FRAMING PLAN

SCALE: 1/4" = 1'–0"



WOODEN PEDESTRIAN BOARDWALK – FRAMING ELEVATION

SCALE: 1/4" = 1'–0"

CIP CONCRETE CLEAR COVER SCHEDULE	
LOCATION	COVER (IN)
CONCRETE CAST AGAINST & EXPOSED TO EARTH	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 TO #18 BARS	2"
#5, w31, AND SMALLER BARS	1 1/2"
CONCRETE NOT EXPOSED TO EARTH OR WEATHER:	
SLABS, WALLS, AND JOISTS	
#14 AND #18 BARS	1 1/2"
#11 AND SMALLER BARS	3/4"
BEAMS AND COLUMNS	1 1/2"
FOOTINGS, GRADE BEAMS, AND PILE CAPS	2" TOP 3" BOT. & SIDES
PEDESTALS AND COLUMNS	1 1/2" CLEAR OF TIES
BASEMENT WALLS	2" EXT. & 3/4" INT.
RETAINING WALLS	2" BOTH FACES
SUMP AND PIT WALLS	2" BOTH FACES
ELEVATED SLABS NOT EXPOSED TO WEATHER	3/4" TOP & BOT.
POST TENSIONED SLABS EXPOSED TO WEATHER	1" TOP & BOT.
ELEVATED SLABS EXPOSED TO WEATHER:	
#5 AND SMALLER BARS	1 1/2" TOP & 3/4" BOT.
#6 AND GREATER BARS	2" TOP & 3/4" BOT.
WELDED WIRE REINFORCEMENT:	
5" OR LESS SLAB THICKNESS	CENTER
6" OR GREATER SLAB THICKNESS	2" FROM TOP
SLABS ON WELL GRADED SUBGRADE OR VAPOR BARRIERS	3/4" TOP 1 1/2" BOT.
BEAMS	1 1/2" CLR OF STIRRUPS
JOISTS	1 1/2" ALL SIDES
WIDE MODULE JOISTS	3/4"

REQUIRED STEEL REINFORCEMENT AND CONCRETE			
STATION TO STATION	STEEL REINFORCEMENT (LB)	CULVERT CONCRETE (CU YD)	REMARKS
STA 731+05 TO STA 731+55	1800	30	SEE. DWGS. 2–O 15 16
TOTALS	1800	30	

CAST–IN–PLACE CONCRETE MIX SCHEDULE								
APPLICATION	EXPOSURE CLASS	STRENGTH (PSI)	TYPE	W/C RATIO	SLUMP	AIR CONTENT	MAX AGGREGATE SIZE	MAX CONCRETE WEIGHT (PCF)
SHALLOW FOUNDATIONS	F0, S0, W0, C0	4,000	NORMAL WT.	0.48	3" TO 5"	---	1"	150
DRILLED PIERS	F0, S0, W0, C0	4,000	NORMAL WT.	0.57	6" TO 8"	---	1"	150
SLAB ON GRADE	F0, S0, W0, C0	4,000	NORMAL WT.	0.45	3" TO 5"	---	1"	150
ELEVATED SLAB	F1, S0, W0, C0	4,000	NORMAL WT.	0.45	3" TO 5"	4% – 6%	3/4"	150

NOTES:
1. EXPOSURE CLASS FOR FREEZE/THAW, SULFATES, WATER EXPOSURE, AND CORROSION ARE PER ACI 318, SECTION 19.3.
2. WHERE NO W/C RATIO, SLUMP, OR AIR CONTENT IS NOTED, CONCRETE MIX DESIGN SHALL BE AS RECOMMENDED BY THE READY MIX SUPPLIERS ENGINEER.

ALABAMA LICENSED No.36284 PROFESSIONAL ENGINEER BRYAN A. COOLEY
3-21-22

SHEET NO. : 15

CANAL ROAD IMPROVEMENTS
FROM SR–161 TO WILSON BOULEVARD

WOODEN PEDESTRIAN BOARDWALK
PLAN AND ELEVATION

REVISION NO. : 1
JOB NO. : 20–1101–0085
DATE : DEC 2021
APPROVED BY: BAC
CHECKED BY: RAH
DRAWN BY: WA/BAC
SCALE: 1/4"=1'–0"
PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
27501 MAIN STREET, SUITE 212
ORANGE BEACH, ALABAMA 36561
(251) 378–6190

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO. 0	DESCRIPTION ISSUED FOR APPROVAL	DATE 4/9/21	BY: BAC
REVISION NO. 1	DESCRIPTION ISSUED FOR BID	DATE 12/17/21	BY: BAC

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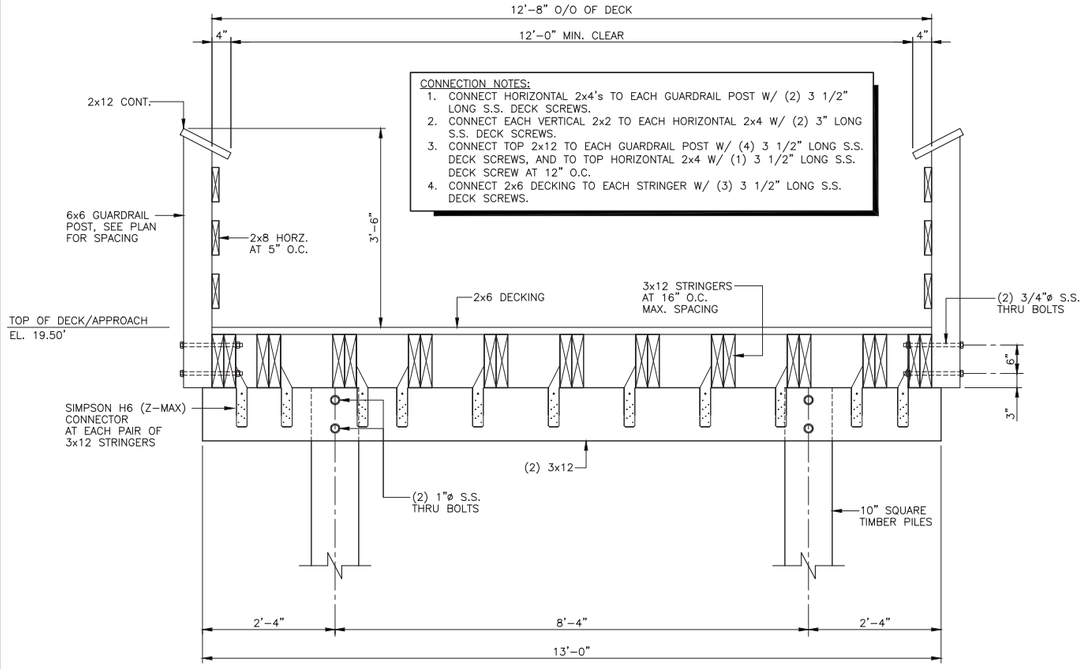
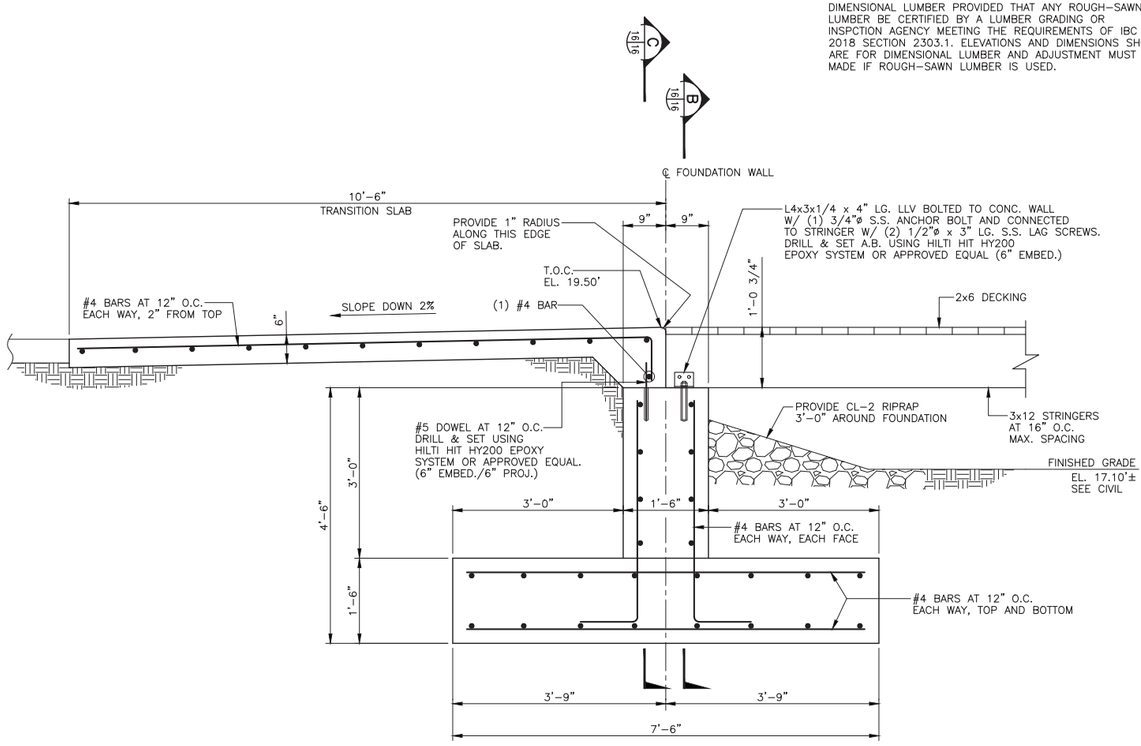


SECTION A 15|16
SCALE: 3/4" = 1'-0"

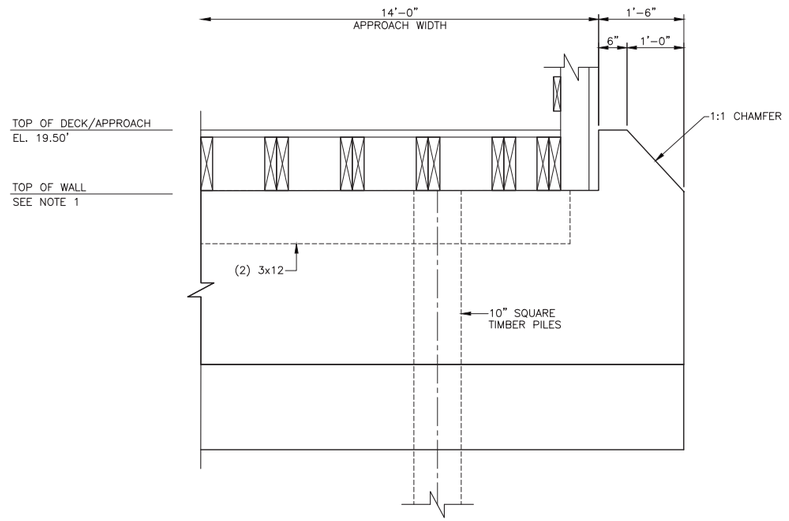
DRAWING NOTES:

1. SEE SHHET 2-O FOR STRUCTURAL NOTES.
2. ROUGH-SAWN LUMBER MAY BE USED IN LIEU OF DIMENSIONAL LUMBER PROVIDED THAT ANY ROUGH-SAWN LUMBER BE CERTIFIED BY A LUMBER GRADING OR INSPOTION AGENCY MEETING THE REQUIREMENTS OF IBC 2018 SECTION 2303.1. ELEVATIONS AND DIMENSIONS SHOWN ARE FOR DIMENSIONAL LUMBER AND ADJUSTMENT MUST BE MADE IF ROUGH-SAWN LUMBER IS USED.

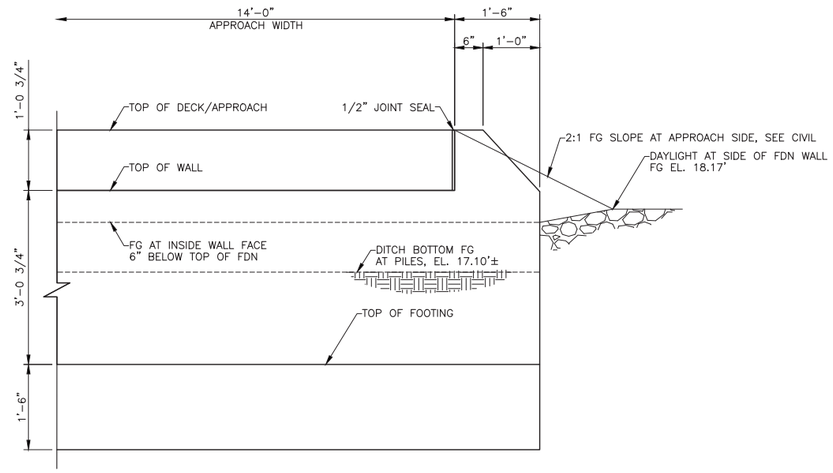


TRANSITION SLAB, FOUNDATION WALL, & FOOTING DETAIL

SCALE: 1/4" = 1'-0"



SECTION B 16|16
SCALE: 3/4" = 1'-0"



SECTION C 16|16
SCALE: 3/4" = 1'-0"

ALABAMA LICENSED No.36284 PROFESSIONAL ENGINEER BRYAN A. COOLEY
3-21-22

SHEET NO. : 16

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

WOODEN PEDESTRIAN BOARDWALK
SECTIONS AND DETAILS

REVISION NO. : 1
JOB NO. : 20-1101-0085
DATE : DEC 2021
APPROVED BY: BAC
CHECKED BY: RAH
DRAWN BY: WA/BAC
SCALE: -

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :
thompson ENGINEERING
THOMPSON ENGINEERING, INC.
ATTN: MAIN OFFICE
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO. 0	DESCRIPTION ISSUED FOR APPROVAL	DATE 4/9/21	BY: BAC
REVISION NO. 1	DESCRIPTION ISSUED FOR BID	DATE 12/17/21	BY: BAC

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SHEET NO. : 20

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PAVING LAYOUT SHEET

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
1531 GULF BLVD, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

CHECKED BY: -- | APPROVED BY: -- | DRAWN BY: -- | SCALE: HORIZ 1"=30'

BEGIN WORK
BL CANAL RD (SR-180)
M.P. 28.32
STA 665+00.00

BEGIN PROJECT
BL CANAL RD
STA 667+54.83

PC STA 662+73.58
S=10611.967
N=194402.887
E=

PI STA 666+25.25

S89°44'44.02"E

N69°23'15.63"E

BL CANAL ROAD

BL SR-161
N0°18'33.55"E

PRES ROW

"ACE HARDWARE"

"THE COMMONS"

"BUSINESS SIGNS"

I-S-BR-BUS

663+00
664+00
665+00
666+00
667+00
668+00
669+00
670+00
87+00
88+00
89+00

+54.83
26.11' LT
MATCH EX

+54.83
22.00' LT
MATCH EX

REOD PLANING AND LEVELING
EXISTING ASPHALT PAVEMENT

REOD MATCH
EX SHLD

82.68'
13.81'
+03.99
45.52' LT
R.15'

REOD 6' CONC SW.
6" THICK

+89.94
46.15' LT

REOD CONC
GUTTER

REOD ASPHALT
WIDENING

REOD 6'
CONC SW.
4" THICK

REOD CONC
C&G. TY "C"

+81.48

+18.80

22'

+37.29
23.00' RT

+00.79
30.00' RT

+80.52
30.00' RT

23'

REOD 9' SHLD
(7' PVD)

2'

R.25'

R.75'

R.67.5'

REOD ASPHALT
WIDENING

+24.90
48.33' RT
MATCH EX

30.99'

REOD CONC DRIVEWAY,
6" THICK (INCL WIRE MESH)

+56.69
48.46' RT
MATCH EX

PT STA 669+69.14
N=1062336.440
E=1943083.701

MATCHLINE STA 670+00
SHEET 21

18'
31.98'
18'

+20.44
40.65' RT MATCH EX

+20.44
31.98' RT MATCH EX

+20.44
18.00' RT MATCH EX

END WORK
BL SR-161
M.P. 1.70
STA 88+20.44

SCALE (FEET) 30 0 30

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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020_PVT.dgn
2021.12.31 14:12:42

SHEET NO. : 21

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PAVING LAYOUT SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CHECKED BY: --

APPROVED BY: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251 MAGNOLIA AVENUE, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

SCALE: HORIZ 1"=30'
VERT 1"=5'

DRAWN BY: --

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REOD PLANING AND RESURFACING EXISTING ASPHALT PAVEMENT

MATCHLINE STA 670+00 SHEET 20

MATCHLINE STA 678+50 SHEET 22

BL CANAL ROAD S89°44'44.0"E

BL CALLAWAY DR N0°02'39.5"W

CALLAWAY DR N0°22'15.9"E

PRES ROW

END WORK
BL CALLAWAY DRIVE
STA 11+59.77

END WORK
BL CALLAWAY DRIVE
STA 9+13.94

SCALE (FEET) 30 0 30

021_PVL.dgn
2021.12.31 14:12:44

NOTE: SEE SHEET ? FOR REQUIRED LAYOUT AND GRADING OF ROUNDABOUT AND PARKING LOT IMPROVEMENTS SHOWN ON THIS SHEET

MATCHLINE STA 678+50
SHEET 21

MATCHLINE STA 207+50
SHEET 27

MATCHLINE STA 683+50
SHEET 23

208+00 209+00 210+00 679+00 680+00 681+00 682+00 683+00 27+00 28+00 29+00 30+00 31+00

PC STA 210+09.07 N=1061162.466 E=1944045.048

PT STA 210+34.69 N=1061138.305 E=1944050.305

PI STA 681+29.82 N=1062231.285 E=1944244.37

PI STA 682+39.80 N=1062231.676 E=1944354.338

BL CANAL ROAD A 210+34.69 S89°44'40"E

BL CANAL ROAD S89°54'00.05"E

BL CANAL ROAD N89°35'02.65"E

BL NORTH ACCESS N0°03'20.09"E

150' ICD

REOD 6' CONC SW. 4" THICK

+76.21 37.50' LT

REOD ASPHALT DRIVEWAY

REOD CONC GUTTER

REOD ASPHALT WIDENING

REOD CONC C&G. TY "C"

REOD 10' ASPHALT SHARED USE PATH

REOD BICYCLE RAMP W/ DIRECTIONAL INDICATOR

REOD 10' CONCRETE SHARED USE PATH

REOD TAPER

REOD OUTSIDE TRUCK APRON

REOD PLANING, LEVELING AND RESURFACING EXISTING ASPHALT PAVEMENT

REOD CURB RAMP TYPE 1 & TYPE 4: PERPENDICULAR MIDBLOCK

REOD MOUNTABLE CURB. TY 1

REOD MOUNTABLE CURB. TY 2

REOD CURB. TY "N"

REOD CURB. TY "N" SP

REOD CURB. TY "N" "OBPL"

REOD CURB RAMP TYPE 1: MEDIAN CUT-THROUGH

REOD CURB RAMP TYPE 1: PERPENDICULAR MIDBLOCK

REOD CURB RAMP TYPE 1: PARALLEL CORNER

REOD ASPHALT PATCHING

REOD PLANING AND RESURFACING EXISTING ASPHALT PAVEMENT

REOD CURB RAMP

REOD ROUNDABOUT TRUCK APRON

REOD 6' CONC SW. 4" THICK

REOD ASPHALT PAVEMENT

END WORK BL NORTH ACCESS STA 30+15.00

EXISTING BUILDING

EXISTING BUILDING FFE=17.09'

FENCE WOOD

SCALE (FEET) 30 0 30

SHEET NO. : 22

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PAVING LAYOUT SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
1531 MAIN STREET, SUITE 2-202
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

CHECKED BY: -- APPROVED BY: --

DRAWN BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO. DESCRIPTION DATE BY:

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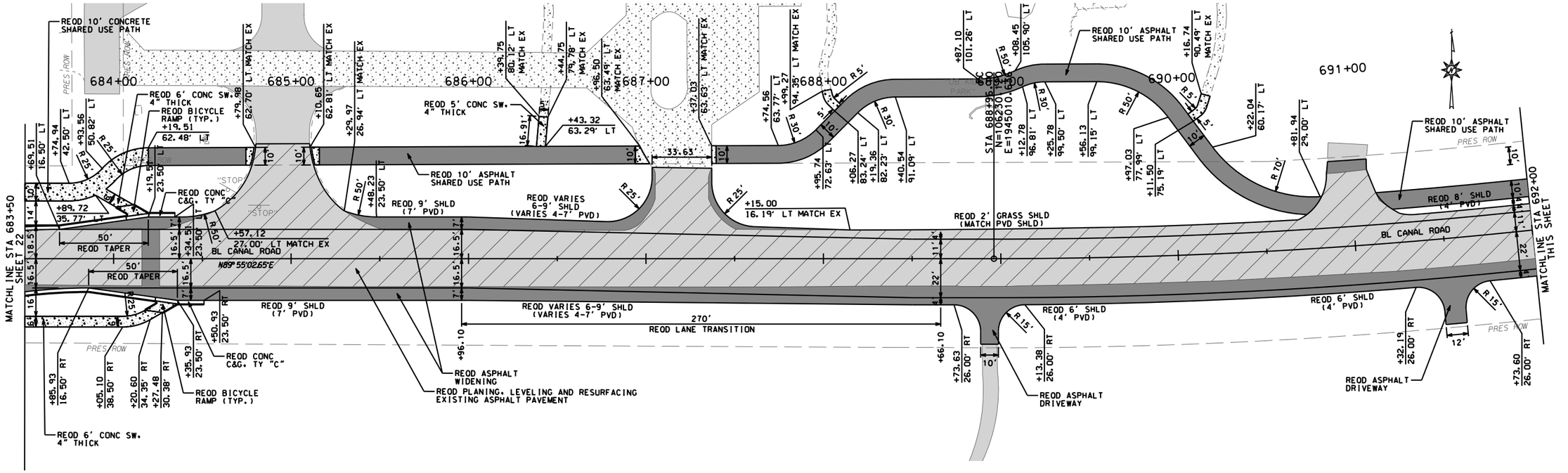

SHEET NO. : 23

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PAVING LAYOUT SHEET

JOB NO. : 20-1101-0085
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APPROVED BY: --
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DRAWN BY: --
SCALE: HORIZ 1"=30'
VERT 1"=5'
PREPARED BY :

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
4334 MAIN STREET, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

thompson ENGINEERING

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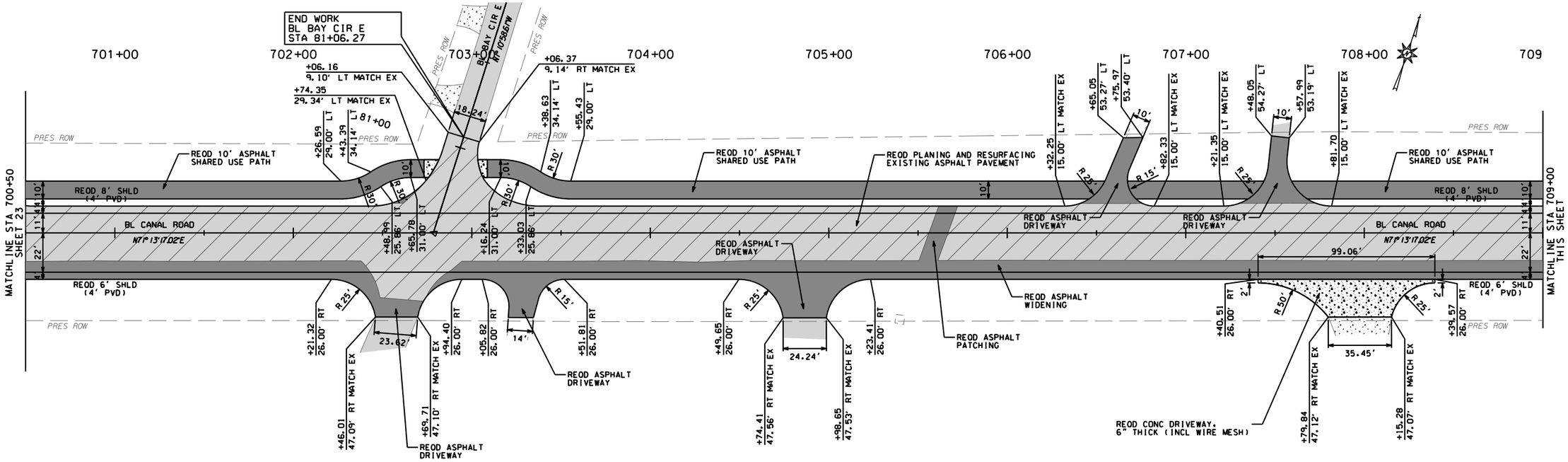

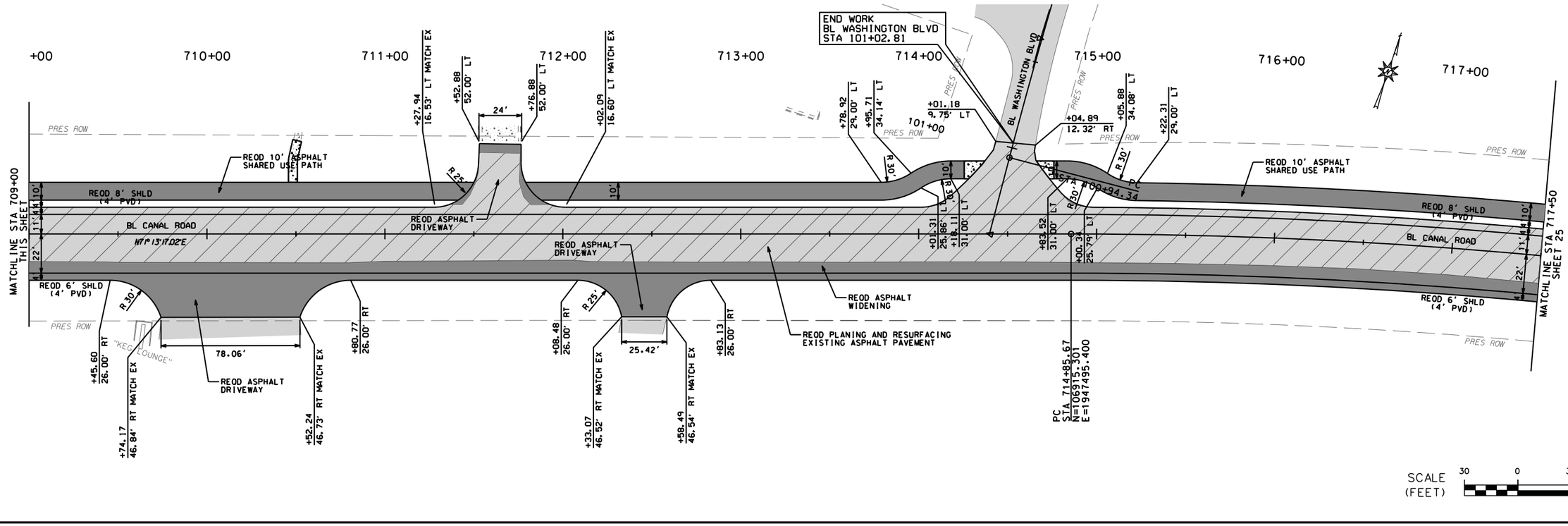

SHEET NO. : 24

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PAVING LAYOUT SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson
ENGINEERING

THOMPSON ENGINEERING, INC.
2731 MAIN STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

APPROVED BY: --

CHECKED BY: --

DRAWN BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

ORANGE BEACH ALABAMA

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REVISION NO.	DESCRIPTION	DATE	BY:
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024_PVT.dgn

SHEET NO. : 25

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

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JOB NO. : 20-1101-0085
DATE : DEC 2021
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APPROVED BY: --
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SCALE: HORIZ 1"=30'
VERT 1"=5'

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
2970 MAIN STREET, SUITE
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

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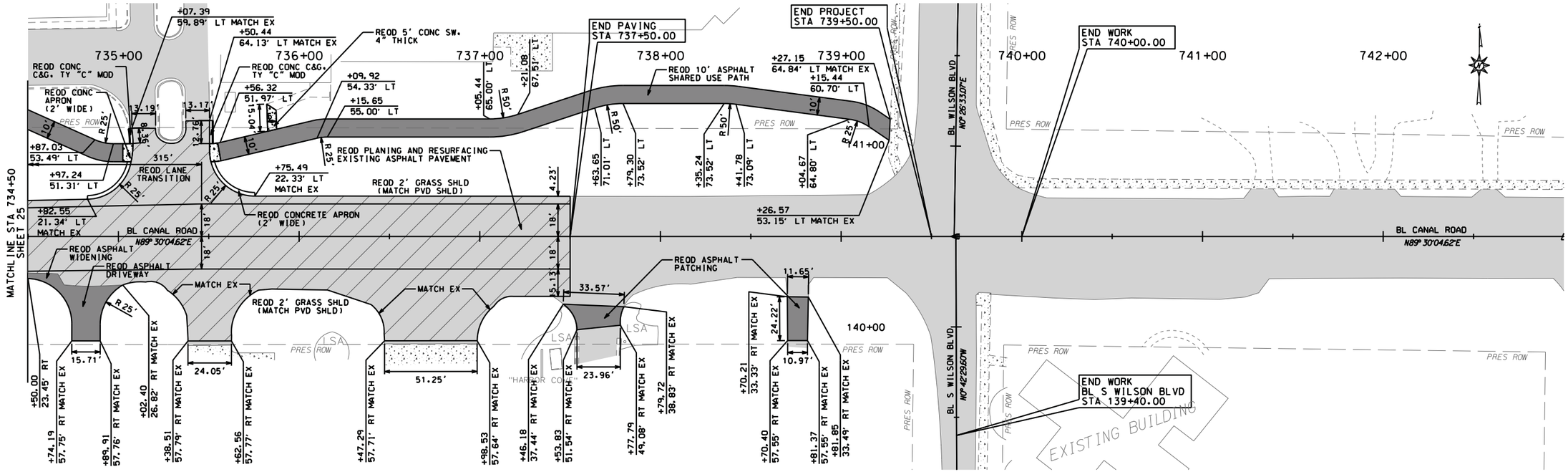

SCALE (FEET) 30 0 30

SHEET NO. : 26

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PAVING LAYOUT SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --
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CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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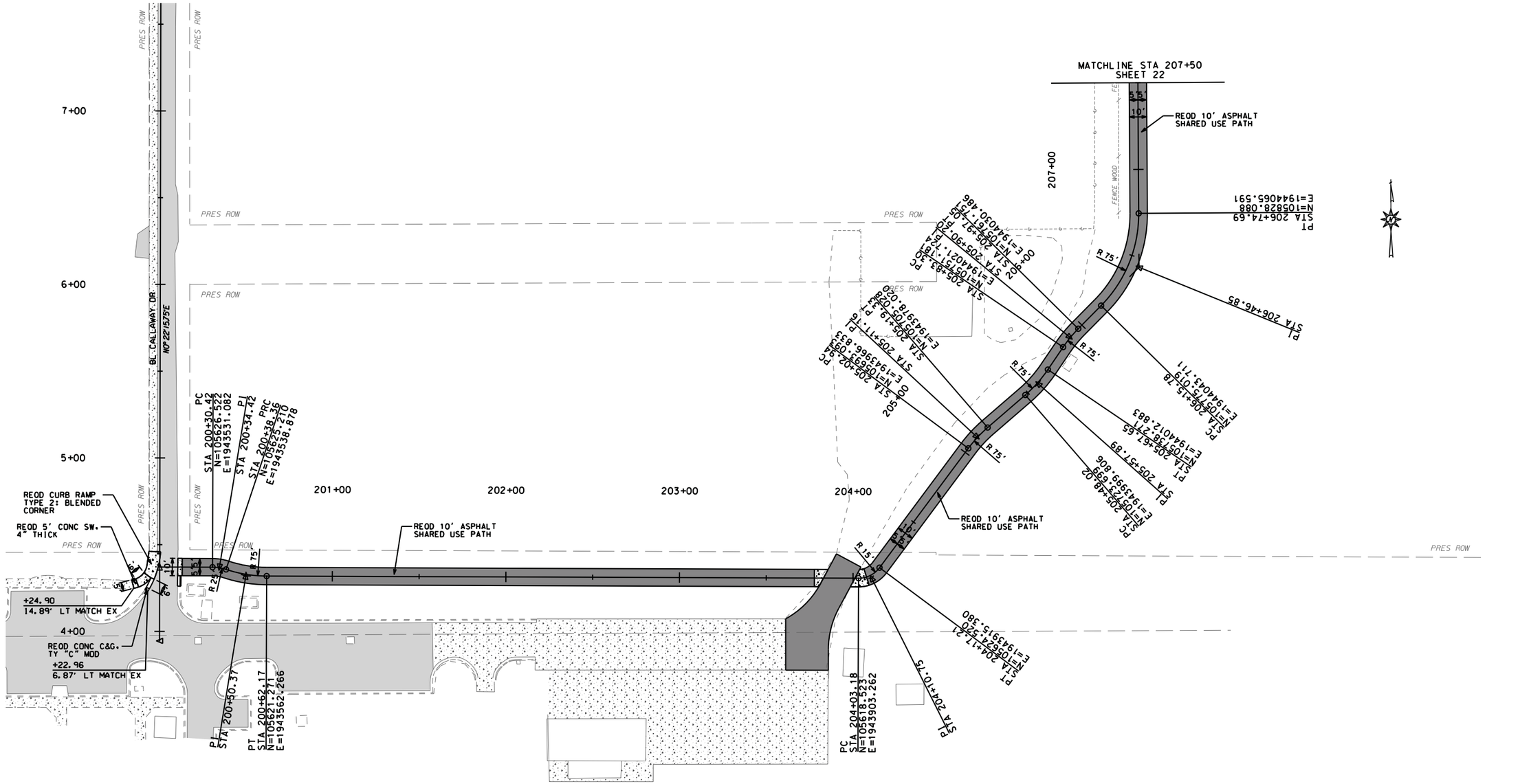
026_Pvt.dgn



SHEET NO. : 27

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

PAVING LAYOUT SHEET

REVISION NO. : --
JOB NO. : 20-1101-0085
DATE : DEC 2021
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
PREPARED BY :
SCALE: HORIZ 1"=30'

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
25761 ARKANSAS CIRCLE, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

ORANGE BEACH ALABAMA

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REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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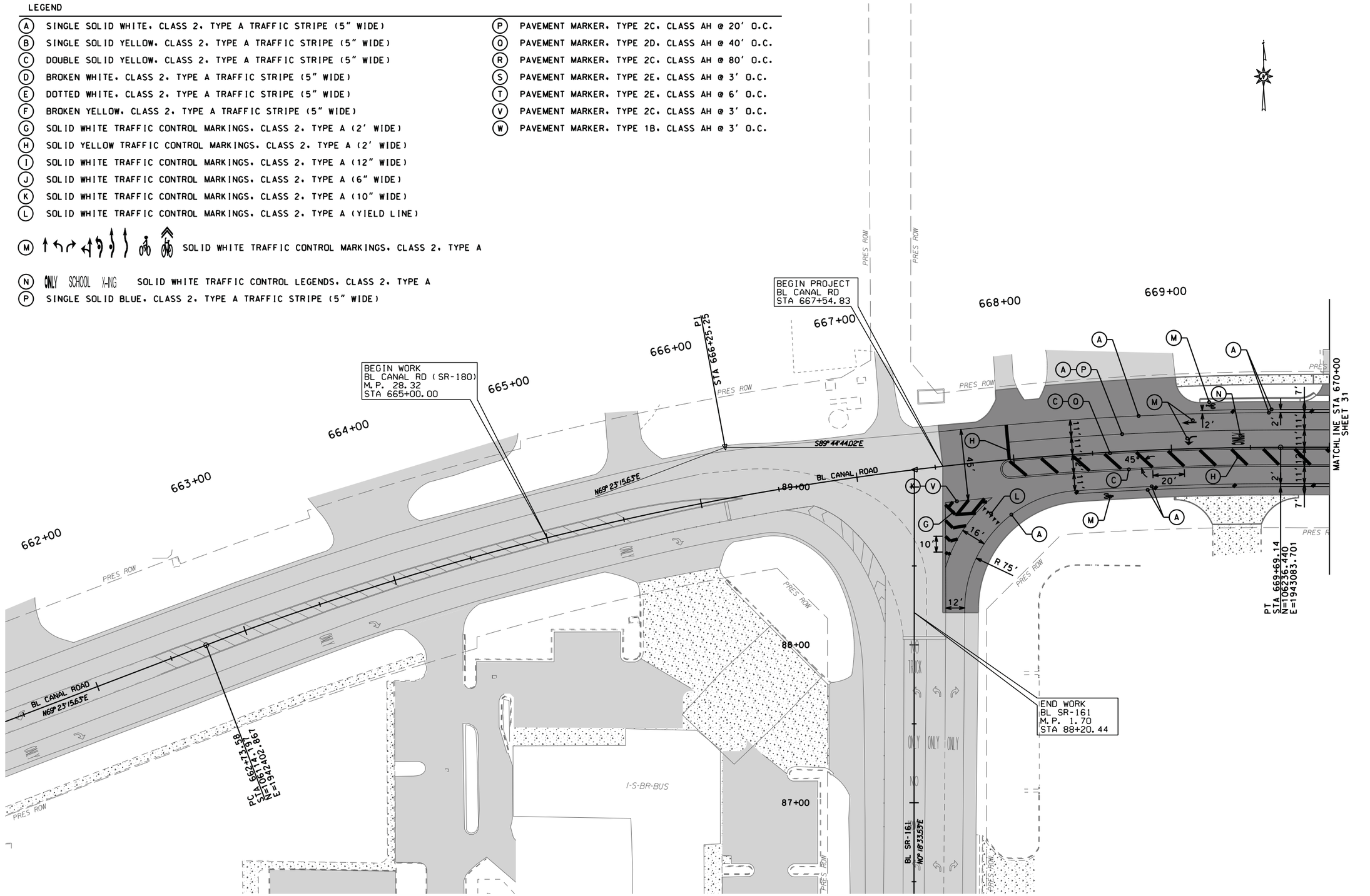
027_PVI.dgn
2021.12.31 14:13:00

LEGEND

- (A) SINGLE SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
- (B) SINGLE SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
- (C) DOUBLE SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
- (D) BROKEN WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
- (E) DOTTED WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
- (F) BROKEN YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
- (G) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (2' WIDE)
- (H) SOLID YELLOW TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (2' WIDE)
- (I) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (12" WIDE)
- (J) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (6" WIDE)
- (K) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (10" WIDE)
- (L) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (YIELD LINE)
- (M) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A
- (N) ONLY SCHOOL X-ING SOLID WHITE TRAFFIC CONTROL LEGENDS, CLASS 2, TYPE A
- (P) SINGLE SOLID BLUE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)

- (P) PAVEMENT MARKER, TYPE 2C, CLASS AH @ 20' O.C.
- (O) PAVEMENT MARKER, TYPE 2D, CLASS AH @ 40' O.C.
- (R) PAVEMENT MARKER, TYPE 2C, CLASS AH @ 80' O.C.
- (S) PAVEMENT MARKER, TYPE 2E, CLASS AH @ 3' O.C.
- (T) PAVEMENT MARKER, TYPE 2E, CLASS AH @ 6' O.C.
- (V) PAVEMENT MARKER, TYPE 2C, CLASS AH @ 3' O.C.
- (W) PAVEMENT MARKER, TYPE 1B, CLASS AH @ 3' O.C.



SCALE (FEET) 30 0 30

SHEET NO. : 30

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

STRIPING LAYOUT SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING
DRAWN BY: --
CHECKED BY: --
APPROVED BY: --
SCALE: HORIZ 1"=30'

THOMPSON ENGINEERING, INC.
251 MAGNOLIA STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

REVISION NO. | DESCRIPTION | DATE | BY:

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030_STR.dgn
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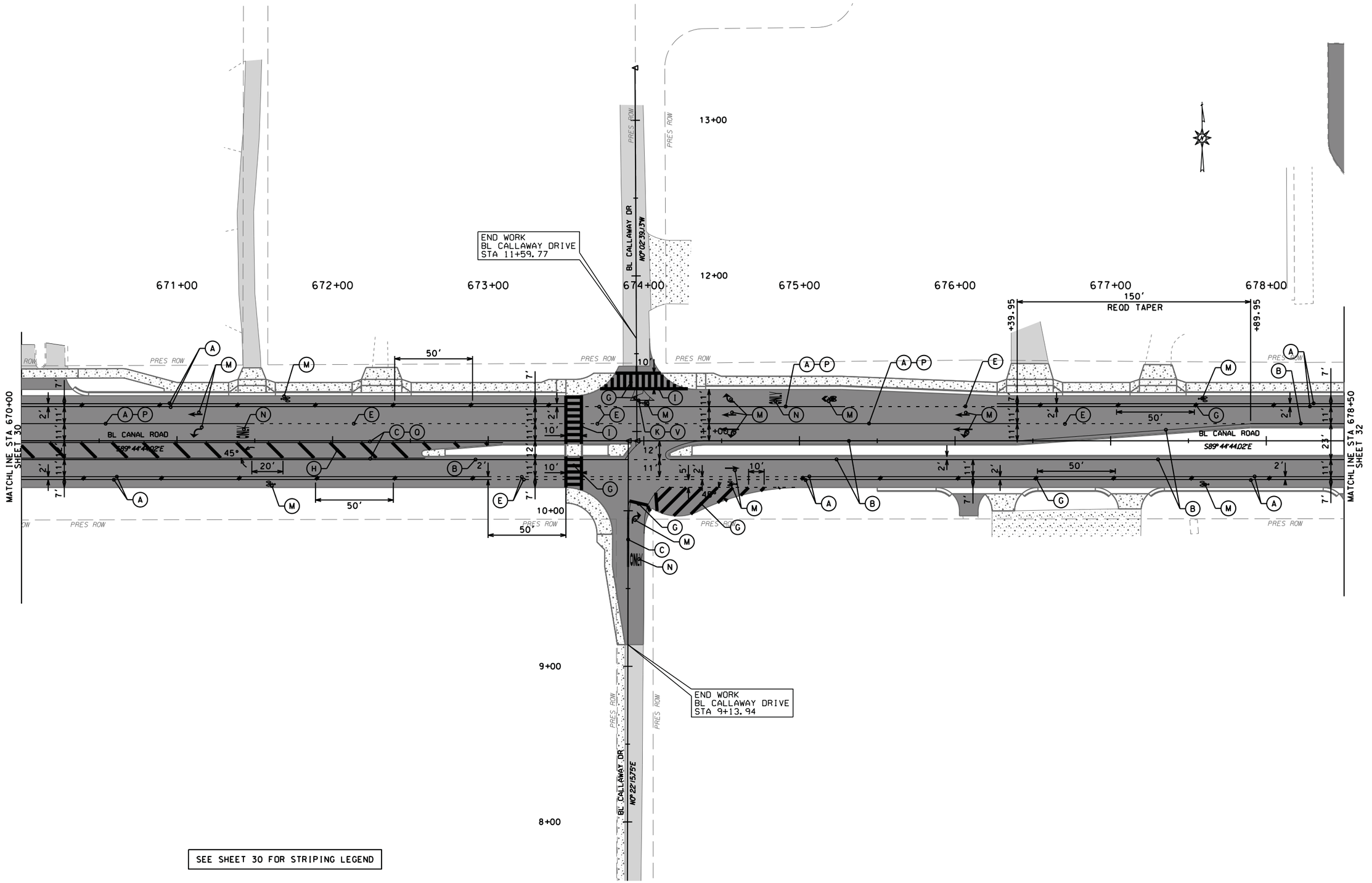

SHEET NO. : 31

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

STRIPING LAYOUT SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
FIRST AMERICA PLACE, SUITE 1232
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

SCALE: HORIZ 1"=30'

DRAWN BY: --

CHECKED BY: --

APPROVED BY: --

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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031_STR.dgn
2021.12.31 15:13:29

MATCHLINE STA 678+50
SHEET 31

MATCHLINE STA 207+50
SHEET 37

208+00 209+00 210+00 679+00 680+00 681+00 682+00 683+00 27+00 28+00 29+00 30+00 31+00

PC
STA 210+09.07
N=106162.466
E=1944065.048

PT
STA 210+51.48
N=106192.138
E=1944090.305

PI
STA 681+29.82
N=106231.285
E=1944244.377

STA 682+31.98
N=106229.174
E=1944354.338

BL CANAL ROAD
S89°44'40"E 210+34.68

BL CANAL ROAD
S89°54'00.05"E

BL CANAL ROAD
N89°55'02.65"E

BL NORTH ACCESS
N0°03'20.09"E

SEE SHEET 30 FOR STRIPING LEGEND

END WORK
BL NORTH ACCESS
STA 30+15.00

EXISTING BUILDING
EXISTING BUILDING
EXISTING BUILDING
EXISTING BUILDING
FFE=17.09'

PLANTER
PORCH
PORCH
CANAL

SCALE (FEET) 30 0 30

SHEET NO. : 32

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

STRIPING LAYOUT SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING
THOMPSON ENGINEERING, INC.
251 MAGNOLIA AVENUE, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

SCALE: HORIZ 1"=30'
DRAWN BY: --
CHECKED BY: --
APPROVED BY: --

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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2021.12.31 15:33:32
032_STR.dgn

SEE SHEET 30 FOR STRIPING LEGEND

684+00 685+00 686+00 687+00 688+00 689+00 690+00 691+00

PRES ROW

MATCHLINE STA 683+50
SHEET 32

BL CANAL ROAD

N89°55'02.65"E

50' 100' 50' 50' 50' 50' 50' 50' 50'

R 40'

10' 10' 10'

7' 2' 11' 11' 11' 11' 4'

250'
REOD LANE TRANSITION

PC
STA 688+96.00
N=1062301.180
E=1945010.636

MATCHLINE STA 692+00
THIS SHEET

END WORK
BL BAY CIR W
STA 61+00.72

693+00 694+00 695+00 696+00 697+00 698+00 699+00 700+00

BL BAY CIR W
N7°07'62"W

61+00

PT
STA 698+30.90
N=1063582.611
E=1945928.717

PI
STA 693+67.69

MATCHLINE STA 700+50
SHEET 34

N71°13'17.02"E

SEE SHEET 30 FOR STRIPING LEGEND

SCALE (FEET) 30 0 30

SHEET NO. : 33

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

STRIPING LAYOUT SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
FIRST AMERICA PLACE, SUITE 1232
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

SCALE: HORIZ 1"=30' DRAWN BY: --
CHECKED BY: -- APPROVED BY: --

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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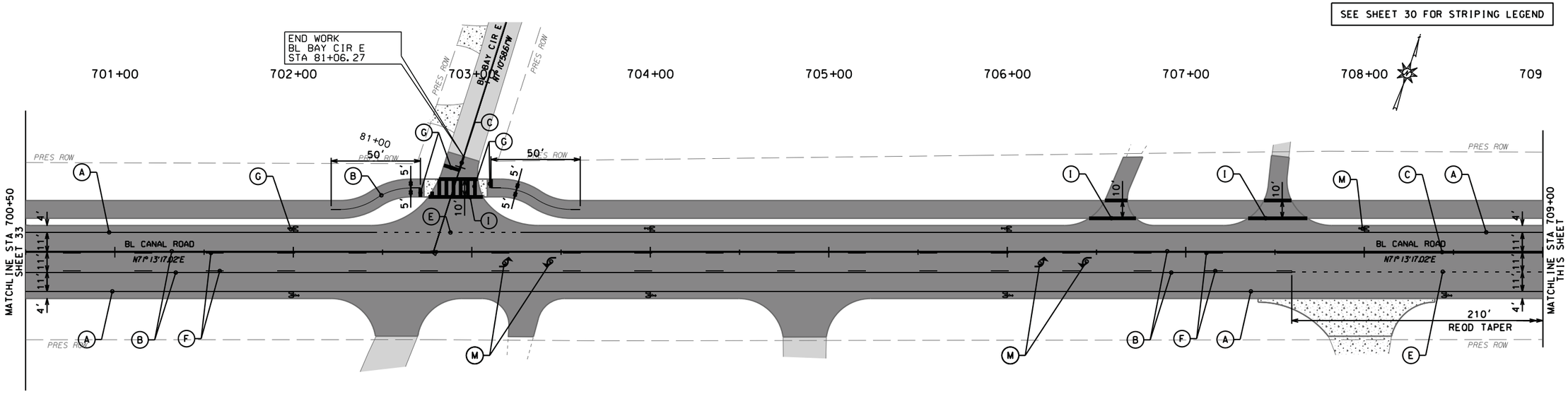
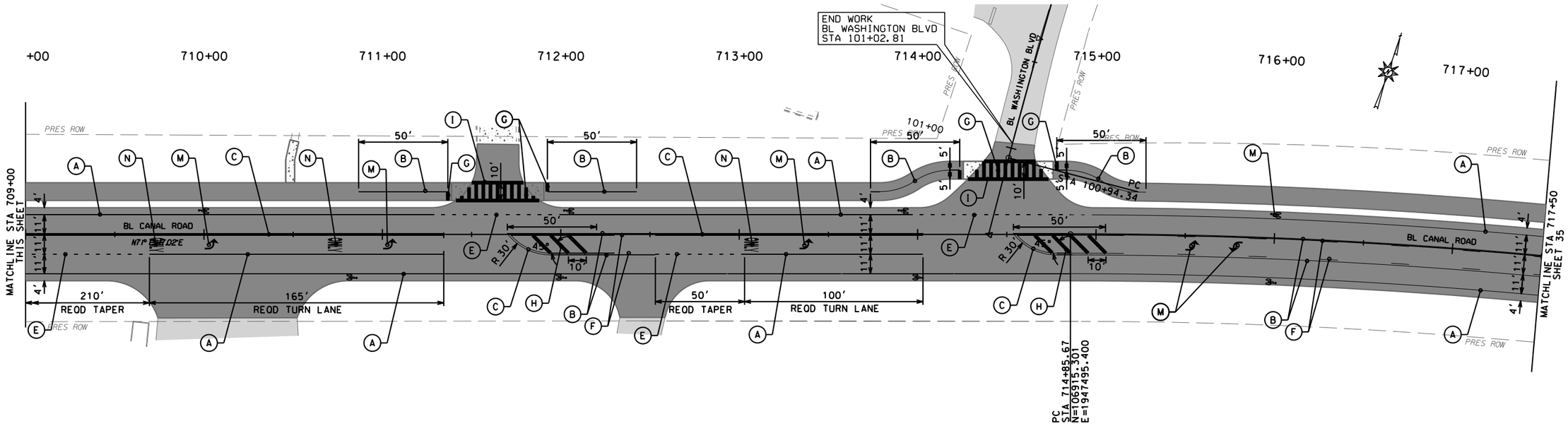
033_STR.dgn
2021.12.31 13:53:35





SEE SHEET 30 FOR STRIPING LEGEND

SCALE (FEET) 30 0 30

SHEET NO. : 34

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

STRIPING LAYOUT SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
1731 GULF STATES PARK ROAD, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

SCALE: HORIZ 1"=30' DRAWN BY: -- CHECKED BY: -- APPROVED BY: --

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REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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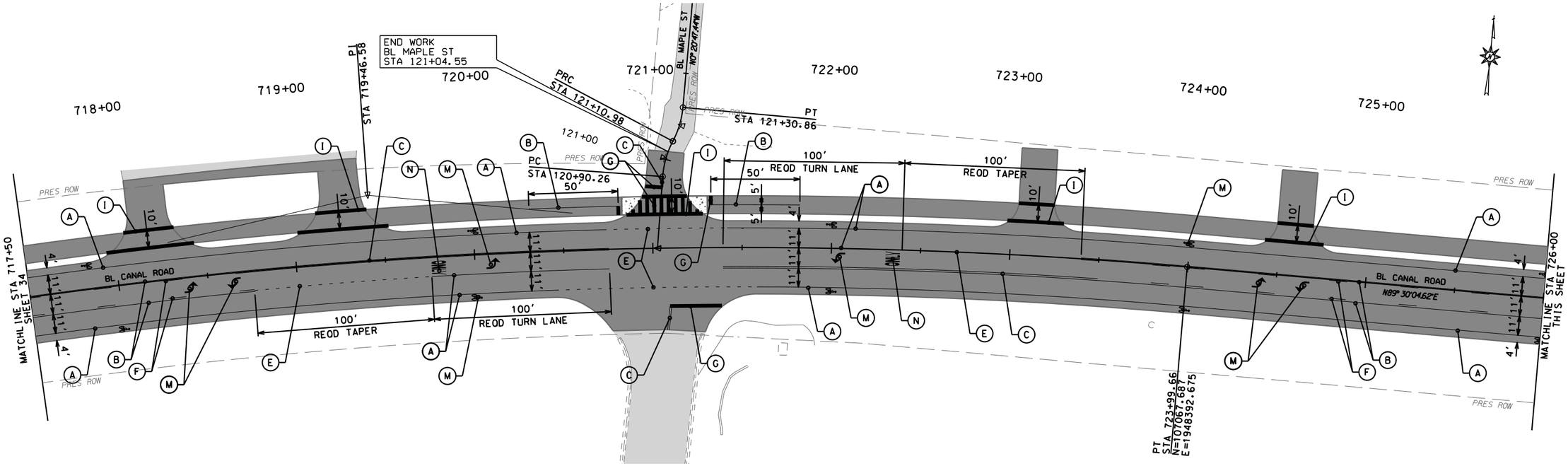
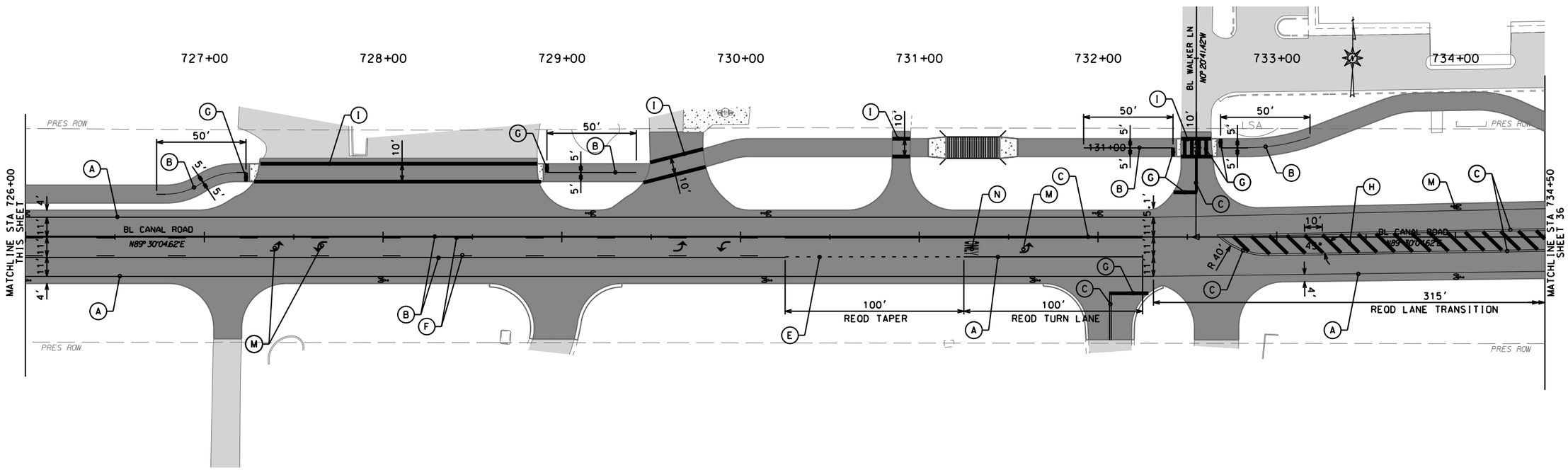
034_STR.dgn
2021.12.31 13:53:38

SEE SHEET 30 FOR STRIPING LEGEND





SEE SHEET 30 FOR STRIPING LEGEND

SCALE (FEET) 30 0 30

SHEET NO. : 35

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

STRIPING LAYOUT SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
3578 MAIN STREET, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

SCALE: HORIZ 1"=30'
DRAWN BY: --
CHECKED BY: --
APPROVED BY: --

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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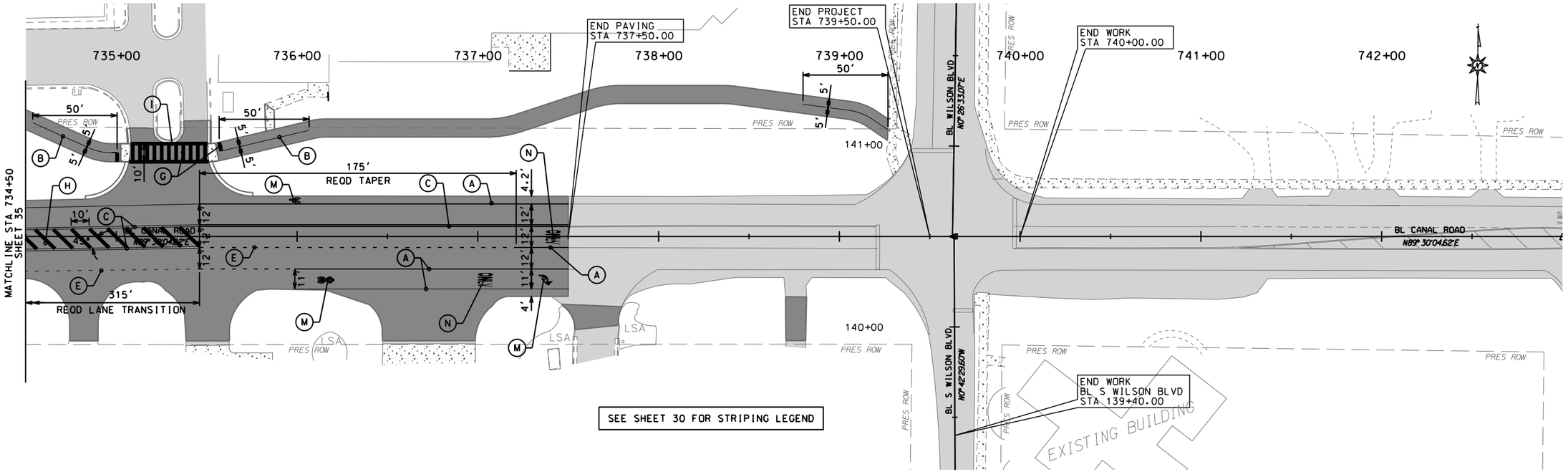
035_STR.dgn
2021.12.31 13:53:41



SCALE (FEET) 30 0 30

SHEET NO. : 36

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

STRIPING LAYOUT SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
1731 GULF STATES PARK ROAD, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

CHECKED BY: --
APPROVED BY: --

SCALE: HORIZ 1"=30'
DRAWN BY: --

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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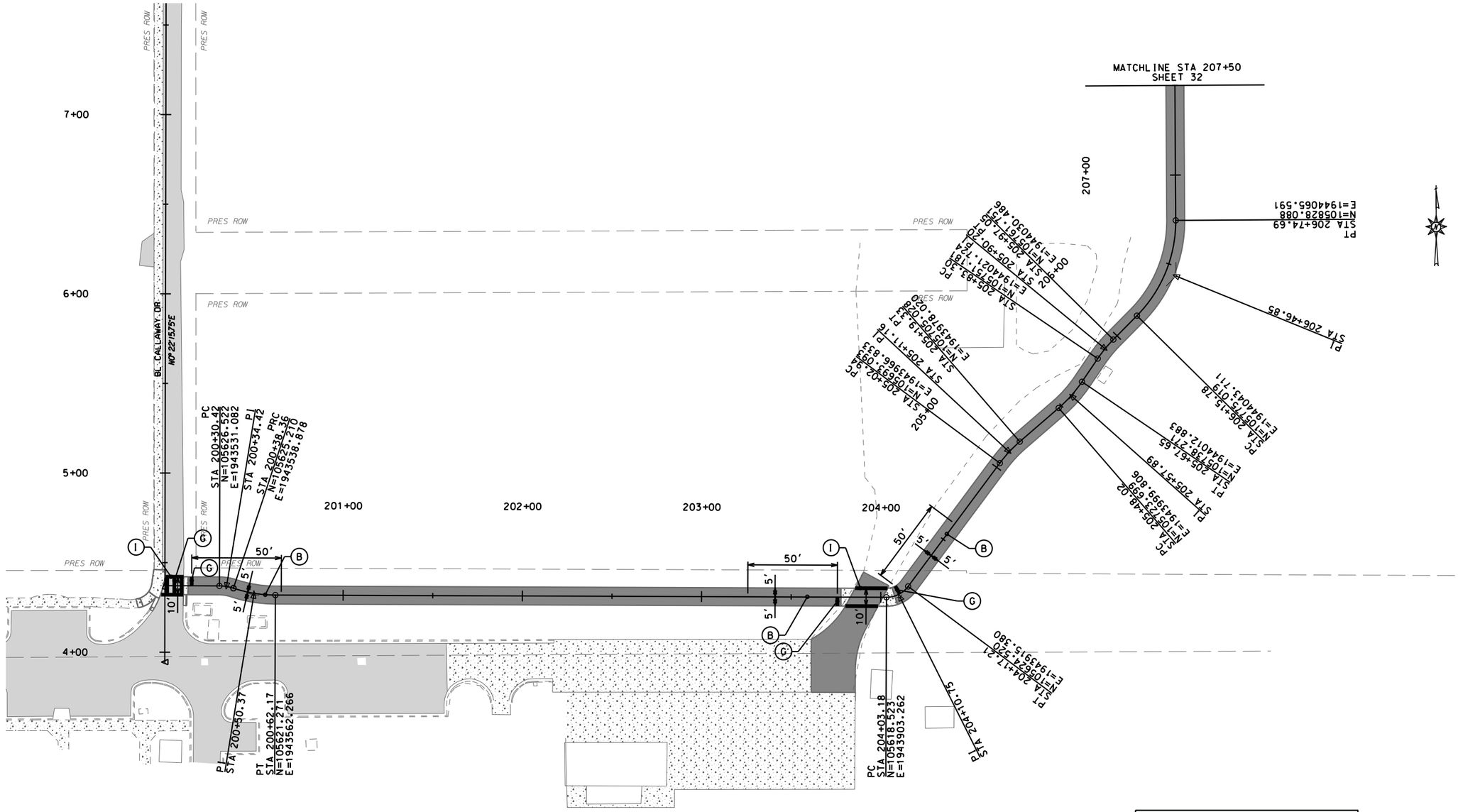
2021.12.31 13:53:43
036_STR.dgn



SEE SHEET 30 FOR STRIPING LEGEND

SCALE (FEET) 30 0 30

SHEET NO. : 37

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

STRIPING LAYOUT SHEET

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY: thompson ENGINEERING

THOMPSON ENGINEERING, INC.
25534 MARCELL STREET, SUITE
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

SCALE: HORIZ 1"=30'

DRAWN BY: --
CHECKED BY: --
APPROVED BY: --
DATE : DEC 2021
JOB NO. : 20-1101-0085
REVISION NO. : --

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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037_STR.dgn
2021.12.23 15:53:46

SHEET NO. : 40

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

SIGNING LAYOUT SHEET

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

DRAWN BY: -- | CHECKED BY: -- | APPROVED BY: -- | DATE : --

SCALE: HORIZ 1"=30'

THOMPSON ENGINEERING, INC.
251 MAGNOLIA STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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BEGIN WORK
BL CANAL RD (SR-180)
M.P. 28.32
STA 665+00.00

BEGIN PROJECT
BL CANAL RD
STA 667+54.83

STA 666+25.25 PI

PC STA 662+73.58
N=1061174.867
E=1942402.86

PT STA 669+69.14
N=1062236.440
E=1943083.701

MATCHLINE STA 670+00
SHEET 41

BL CANAL ROAD
N69° 23' 15.63"E

S89° 44' 44.02"E

BL SR-161
N0° 18' 33.55"E

665+00
666+00
667+00
668+00
669+00
670+00
662+00
663+00
664+00
87+00
88+00
89+00

"ACE HARDWARE"
"ASB"
"THE COMMONS"
"BUSINESS SIGNS"
"DOCS SEAFOOD"

PRES ROW
I-S-BR-BUS

W1-7
W1-7A (RETAIN)
REOD FLEXIBLE DELINEATOR POSTS WITH BASE. YELLOW
R1-1 STOP (RETAIN)
R1-2 YIELD (RELOCATE)
END STATE MAINTENANCE (RELOCATE)
R2-1 SPEED LIMIT 35
R8-3

ONLY
NO TRUCK

END WORK
BL SR-161
M.P. 1.70
STA 88+20.44

SCALE (FEET) 30 0 30

040_SGN.dgn
2021.12.21 14:13:26

SHEET NO. : 41

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

SIGNING LAYOUT SHEET

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
26351 AL HIGHWAY 59, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

thompson ENGINEERING

DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE :	JOB NO. :	REVISION NO. :
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PREPARED BY : -

SCALE: HORIZ 1"=30'

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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041_SGN.dgn
2021.12.31 14:13:29

MATCHLINE STA 678+50
SHEET 41

MATCHLINE STA 207+50
SHEET 47

MATCHLINE STA 683+50
SHEET 43

PC
STA 210+09.07
N=106162.466
E=1944065.048

PI
STA 210+34.69

PT
STA 210+51.48
N=106192.138
E=1944090.305

BL CANAL ROAD
S89°44'40"E

PI
STA 681+29.82
N=106231.285
E=1944244.377

BL CANAL ROAD
S89°54'00.05"E

PI
STA 682+31.77
N=106228.177
E=1944351.335

BL CANAL ROAD
S89°55'02.59"E

BL NORTH ACCESS
N0°03'20.09"E

END WORK
BL NORTH ACCESS
STA 30+15.00

208+00 209+00 210+00 679+00 680+00 681+00 682+00 683+00 27+00 28+00 29+00 30+00 31+00

PRES. ROW

"OBPL"

"OBSC." PLANTER

EXISTING BUILDING

EXISTING BUILDING FFE=17.09'

PORCH

CANAL

26	R3-8 ONLY	
27	R1-2 YIELD	
28	R1-2 YIELD	
29	R6-4A ONE WAY	
30	R6-1R ONE WAY	
31	R6-1R ONE WAY	
32	R6-4A	
33	R6-1R ONE WAY	
34	R6-4A	
35	R1-2 YIELD	
36	R1-2 YIELD	
37	R3-20L BEGIN LEFT TURN LANE	
38	R4-7	
39	R1-2 YIELD	
40	R1-2 YIELD	
41	W2-6	
42	W11-2	
43	W16-7P	
44	W11-2	
45	W16-7P	
46	W11-2	
47	W16-7P	
48	W11-2	
49	W16-7P	
50	R1-1 STOP	
51	R5-1 DO NOT ENTER	
52	R5-1 DO NOT ENTER	
53	R1-1 STOP	
54	R1-1 STOP	
55	R5-1 DO NOT ENTER	
56	R1-2 YIELD	
57	R5-1 DO NOT ENTER	
58	R4-7	

SCALE (FEET) 30 0 30

SHEET NO. : 42

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

SIGNING LAYOUT SHEET

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251 MAGNOLIA STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

SCALE: HORIZ 1"=30' | DRAWN BY: -- | CHECKED BY: -- | APPROVED BY: -- | DATE : -- | REVISION NO. : --

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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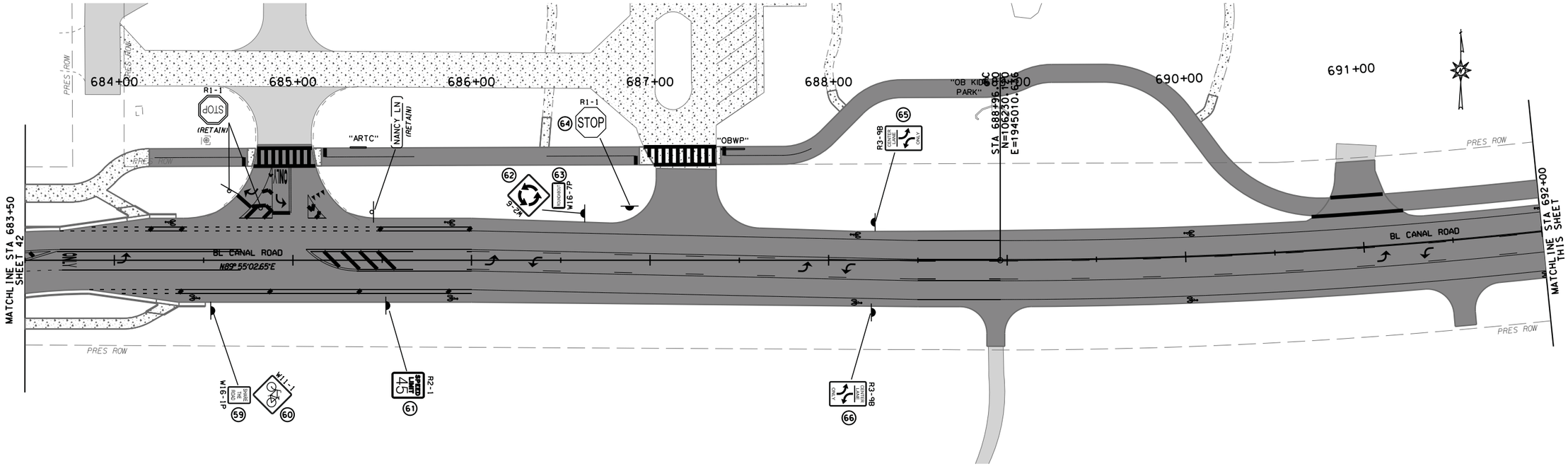
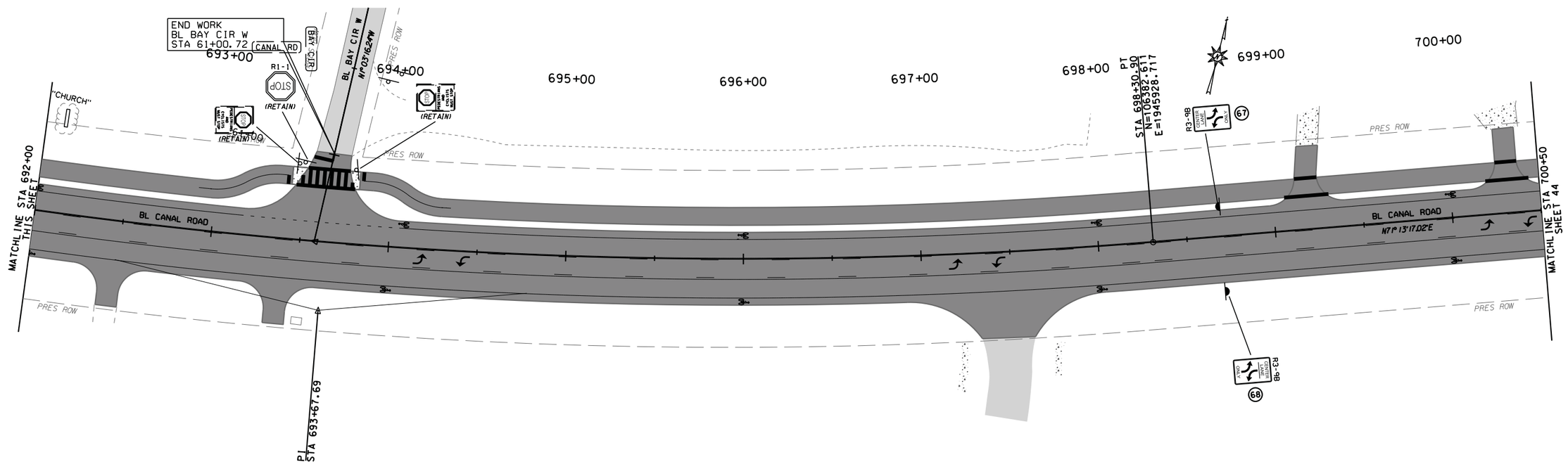
042_SGN.dgn
2021.12.31 14:13:32





SHEET NO. : 43

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

SIGNING LAYOUT SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

APPROVED BY: --

CHECKED BY: --

DRAWN BY: --

SCALE: HORIZ 1"=30'

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson
ENGINEERING

THOMPSON ENGINEERING, INC.
2731 GULF STATE PARK ROAD, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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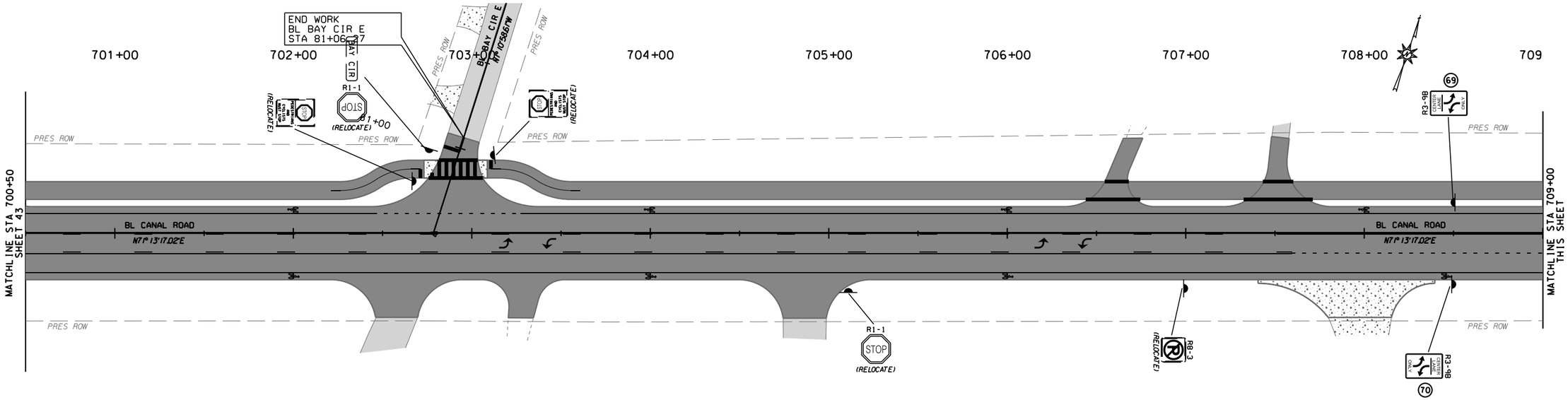
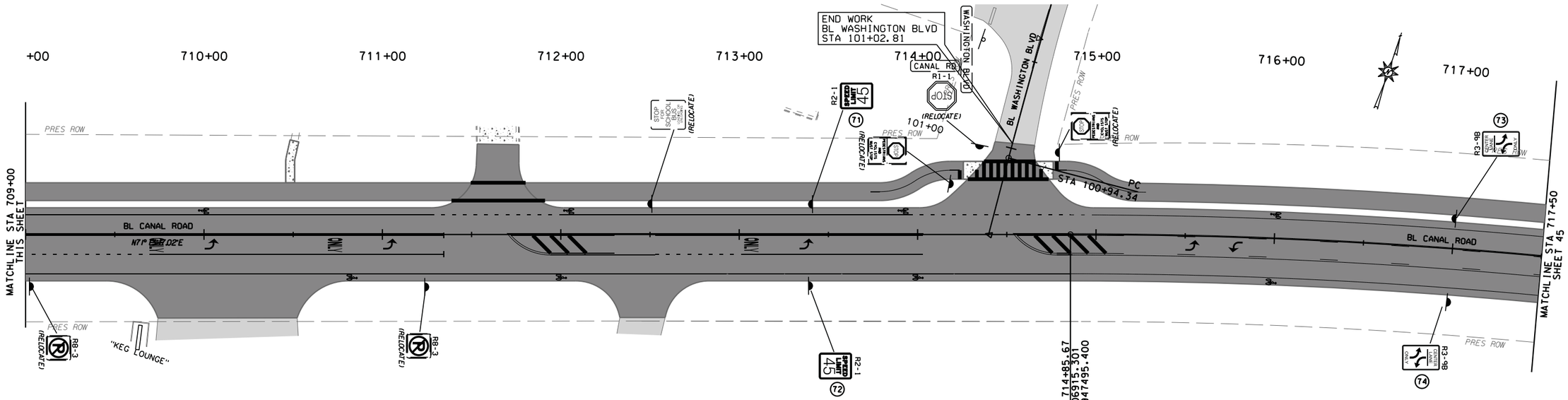
043_SGN.dgn
2021.12.31 14:13:35





SCALE (FEET) 30 0 30

SHEET NO. : 44

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

SIGNING LAYOUT SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
TEXAS REGISTRATION NO. F-12962
ALABAMA FIRM LICENSE NO. 56561
ORANGE BEACH, ALABAMA
(251) 378-6990

APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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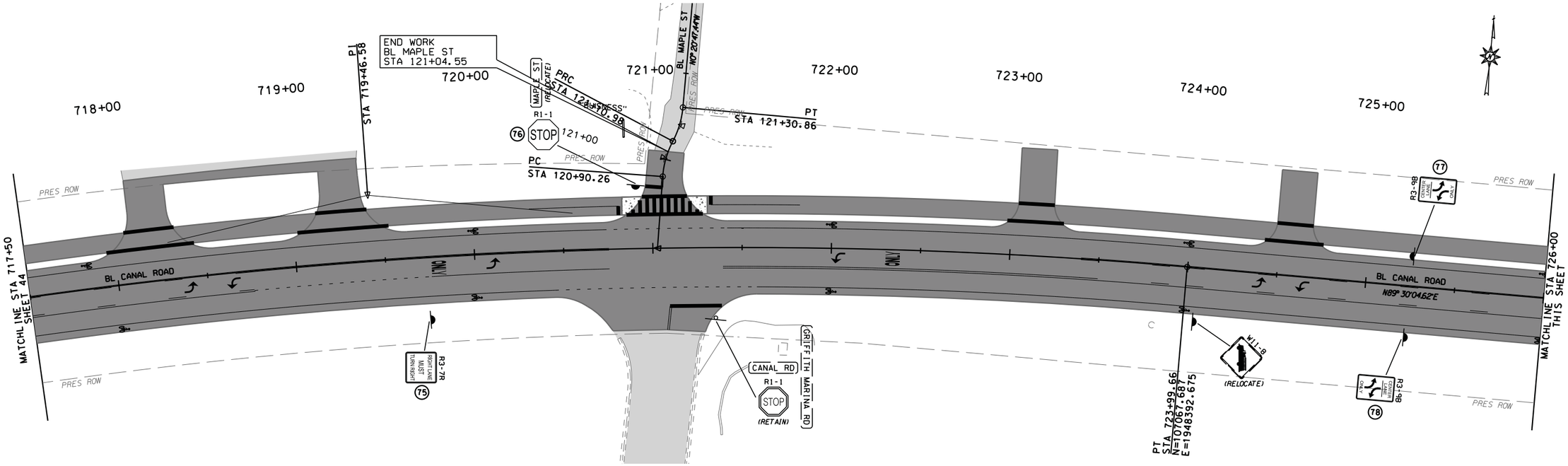
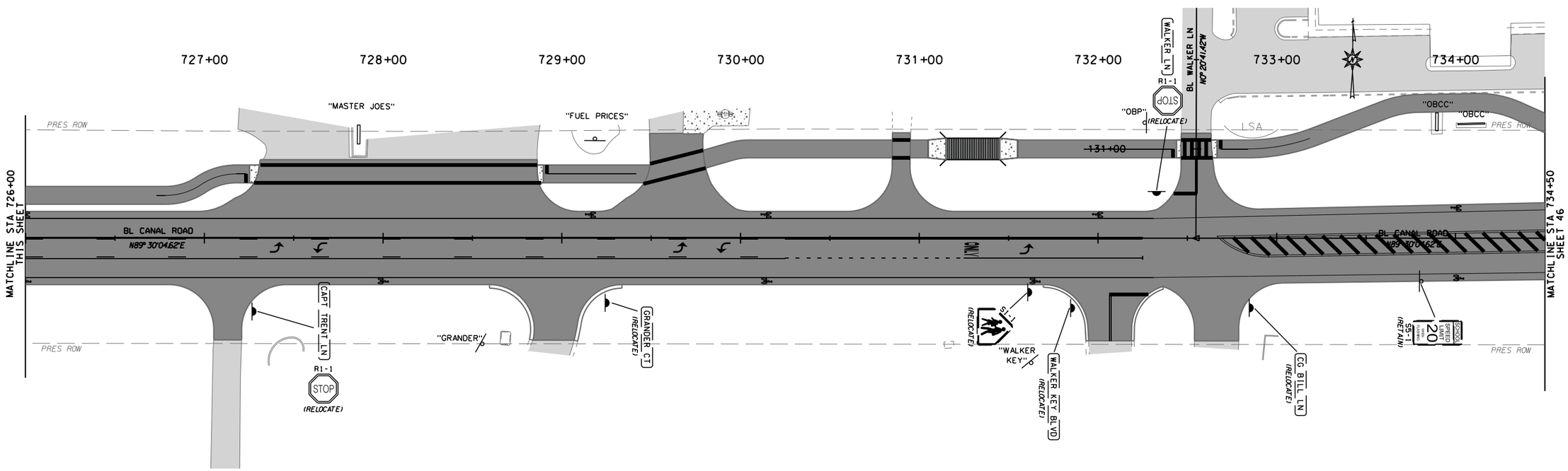
044_SGN.dgn
2021.12.31 14:13:38





SHEET NO. : 45

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

SIGNING LAYOUT SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson
ENGINEERING

THOMPSON ENGINEERING, INC.
25351 ARCO DRIVE, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

SCALE: HORIZ 1"=30'
DRAWN BY: --
CHECKED BY: --
APPROVED BY: --

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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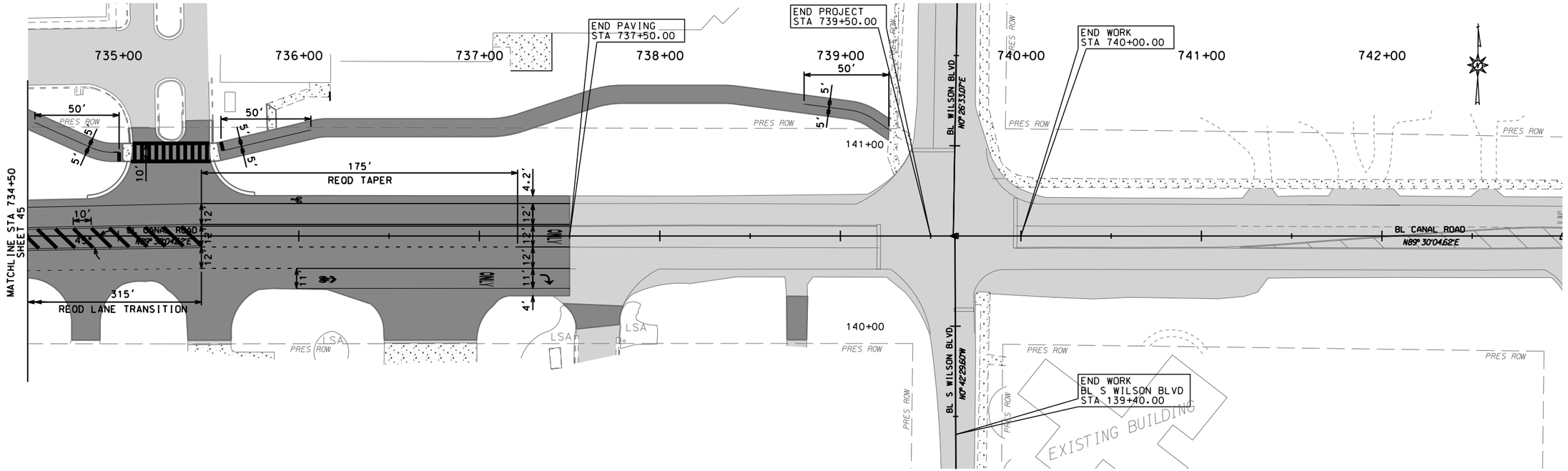
045_SGN.dgn
2021.12.31 14:13:41



SCALE (FEET) 30 0 30

SHEET NO. : 46

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

SIGNING LAYOUT SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
1731 GULF SHORES PKWY, SUITE
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

CHECKED BY: --
APPROVED BY: --

SCALE: HORIZ 1"=30'
DRAWN BY: --

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE LOANED, REPRODUCED, OR PUBLISHED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE THOMPSON ENGINEERING COMPANY. ANY UNAUTHORIZED USE IS SUBJECT TO LEGAL ACTION UNDER STATE AND FEDERAL LAW.

2021.12.31 14:13:43
046_SGN.dgn

SHEET NO. : 47

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

SIGNING LAYOUT SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
25361 ARTHUR BLVD. SUITE 2-252
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

PREPARED BY : --

CHECKED BY: --

APPROVED BY: --

DRAWN BY: --

SCALE: HORIZ 1"=30"

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE USED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THOMPSON ENGINEERING. ANY UNAUTHORIZED USE, REPRODUCTION OR ALTERATION WILL BE SUBJECT TO LEGAL ACTION UNDER STATE AND FEDERAL LAW.

MATCHLINE STA 207+50
SHEET 42

PRES ROW

BL CALLAWAY DR
MP 22.1575E

7+00
6+00
5+00
4+00
201+00
202+00
203+00
204+00
207+00

PC
STA 200+30.42
N=105626.522
E=1943531.082

PI
STA 200+34.42

PRC
STA 200+38.36
N=105625.270
E=1943538.878

PT
STA 200+50.37

PI
STA 200+62.17
N=105621.211
E=1943562.266

PC
STA 204+03.18
N=105618.523
E=1943903.262

PI
STA 204+10.75

PT
STA 204+17.21
N=105624.520
E=1943915.380

PC
STA 205+48.02
N=105623.698
E=1943999.606

PI
STA 205+57.89

PT
STA 205+67.65
N=105736.211
E=1944012.883

PC
STA 206+15.78
N=105735.019
E=1944043.711

PI
STA 206+46.85

PT
STA 206+74.69
N=105828.088
E=1944065.591

PC
STA 205+02.94
N=105705.093
E=1943966.833

PI
STA 205+11.76

PT
STA 205+19.34
N=105705.028
E=1943978.020

PC
STA 205+83.34
N=105751.740
E=1944021.178

PI
STA 205+90.91

PT
STA 205+98.49
N=105761.705
E=1944030.486

SCALE (FEET)
30 0 30

SHEET NO. : 50

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

UTILITY PLAN SHEET

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251 MAGNOLIA STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. :
DRAWN BY: -- | CHECKED BY: -- | APPROVED BY: -- | DATE: --
SCALE: HORIZ 1"=30'

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE USED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THOMPSON ENGINEERING. ANY UNAUTHORIZED USE OR ALTERATION SHALL BE SUBJECT TO LEGAL ACTION AND UNDER STATE AND FEDERAL LAW.

BEGIN WORK
BL CANAL RD (SR-180)
M.P. 28.32
STA 665+00.00

BEGIN PROJECT
BL CANAL RD
STA 667+54.83

PC STA 662+73.89
N=1061178.87
E=1942402.48

PT STA 669+69.14
N=1062364.40
E=1943083.70

REQD SANITARY SEWER MANHOLE
FRAME & COVER RESET
EX RIM=16.76
INV=UNKNOWN

END WORK
BL SR-161
M.P. 1.70
STA 88+20.44

MATCHLINE STA 670+00
SHEET 51

BL CANAL ROAD

BL SR-161

CONST LIM

PRES ROW

FENCE WOOD

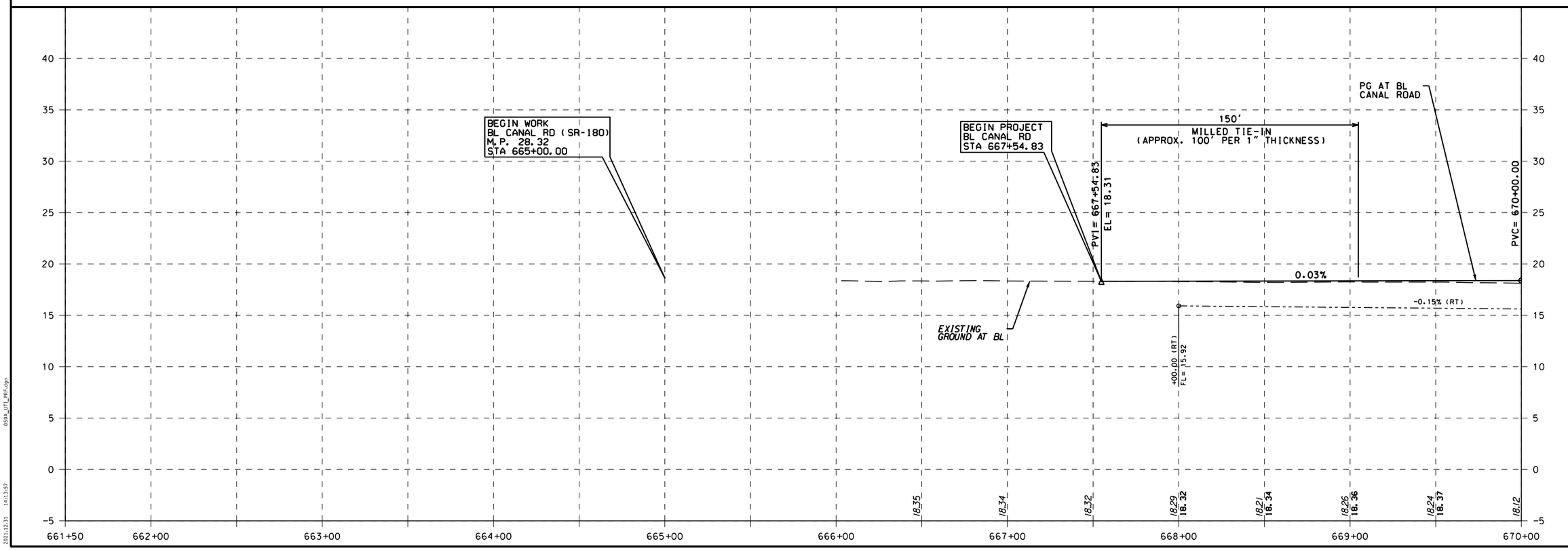
I-S-BR-BUS

SCALE (FEET) 30 0 30

2021.12.31 14:13:54
090_UTIL_Plt.dgn

SEE SHEET 50 FOR PLAN VIEW

SCALE (FEET) 30 HORIZ 0 30 5 VERT 0 5



SHEET NO.: 50-A

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

UTILITY PROFILE SHEET

DATE: DEC 2021 | JOB NO.: 20-1101-0085 | REVISION NO.:

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY: thompson ENGINEERING

THOMPSON ENGINEERING, INC.
25351 ARCH STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

CHECKED BY: -- | APPROVED BY: -- | DRAWN BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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2021.12.21 14:13:57 050A_UTI_PRF.dgn

SHEET NO. : 51

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

UTILITY PLAN SHEET

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251 MAGNOLIA AVENUE, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

DATE :	APPROVED BY:	REVISION NO. :
DEC 2021	--	--

JOB NO. :	DRAWN BY:
20-1101-0085	--

CHECKED BY:	SCALE:
--	HORIZ 1"=30'

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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MATCHLINE STA 670+00
SHEET 50

MATCHLINE STA 678+50
SHEET 52

671+00 672+00 673+00 674+00 675+00 676+00 677+00 678+00

13+00 12+00 11+00 9+00 8+00

BL CANAL ROAD
S89°44'44.02"E

BL CALLAWAY DR
N0°02'39.15"W

BL CALLAWAY DR
N0°22'15.75"E

PRES ROW

CONST LIM

BTC

BFO

OE

GM

WW

G

S

FENCE WOOD

END WORK
BL CALLAWAY DRIVE
STA 11+59.77

REOD SANITARY SEWER MANHOLE
FRAME & COVER RESET
EX RIM=15.79
INV(N)=13.32
INV(E)=6.18
INV(S)=8.82
INV(SW)=8.65
INV(W)=6.29

REOD SANITARY SEWER MANHOLE
FRAME & COVER RESET
EX RIM=16.36
INV(N)=12.30
INV(E)=6.94
INV(S)=8.89
INV(W)=6.86

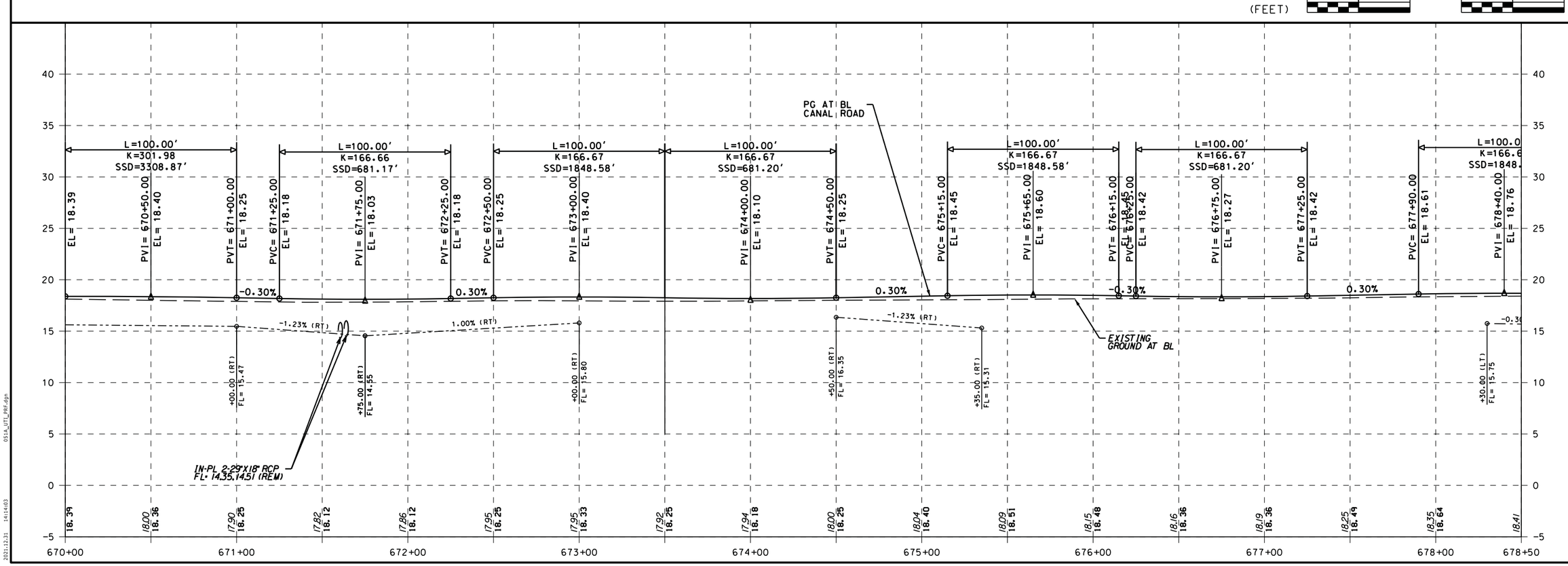
REOD SANITARY SEWER MANHOLE
FRAME & COVER RESET
EX RIM=16.46
INV(E)=7.42
INV(W)=7.50

END WORK
BL CALLAWAY DRIVE
STA 9+13.94

SCALE (FEET) 30 0 30

2021-12-31 14:14:00 051_UTL_PLN.dgn

SEE SHEET 51 FOR PLAN VIEW



SHEET NO. : 51-A

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

UTILITY PROFILE SHEET

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

CHECKED BY: -- | APPROVED BY: -- | DRAWN BY: --

SCALE: HORIZ 1"=30' VERT 1"=5'

THOMPSON ENGINEERING, INC.
3531 MAIN STREET, SUITE 2-312
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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2021.12.31 14:14:03 053A_UTI_PRF.dgn

MATCHLINE STA 678+50
SHEET 51

MATCHLINE STA 207+50
SHEET 60

208+00 209+00 210+00

PC STA 209+09.07
N=1062162.466
E=1944065.048

BL CANAL ROAD
S89°44'40"E

PT STA 210+37.48
N=1064192.138
E=1944090.505

679+00 680+00 681+00 682+00 683+00

27+00 28+00 29+00 30+00 31+00

CONST LIM
FENCE WOOD
ACOD ROW
PLANTER
EXISTING BUILDING
PORCH
DUMPSTER

REOD SANITARY SEWER MANHOLE
FRAME & COVER RESET
EX RIM=15.94
INV(E)=8.18
INV(W)=8.22

+48.94
TIE TO PRES
(RT 49.43' +/-)

+44.60
TIE TO PRES
(LT 51.86' +/-)

+33.04
(LT 127.97')

+23.57
(RT 124.03')

PI STA 681+29.82
N=1062317.285
E=1944241.877

+42.01
(RT 121.78')

REOD SANITARY SEWER MANHOLE
FRAME & COVER RESET
EX RIM=17.09
INV(E)=8.65
INV(W)=8.65

+31.78
TIE TO PRES
(RT 47.34' +/-)

PI STA 682+39.80
N=1062538.178
E=1944354.338

BL CANAL ROAD
S89°55'02"E

+65.87
(LT 127.47')

+65.58
(LT 107.47')

+97.26
TIE TO PRES
(LT 52.43' +/-)

END WORK
BL NORTH ACCESS
STA 30+15.00

BL NORTH ACCESS
N0°03'20"E

EXISTING BUILDING
FFE=11.09'

MATCHLINE STA 683+50
SHEET 53

SCALE (FEET) 30 0 30

SHEET NO. : 52

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

UTILITY PLAN SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'
PREPARED BY :

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
251 MAGNOLIA AVENUE, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

thompson ENGINEERING

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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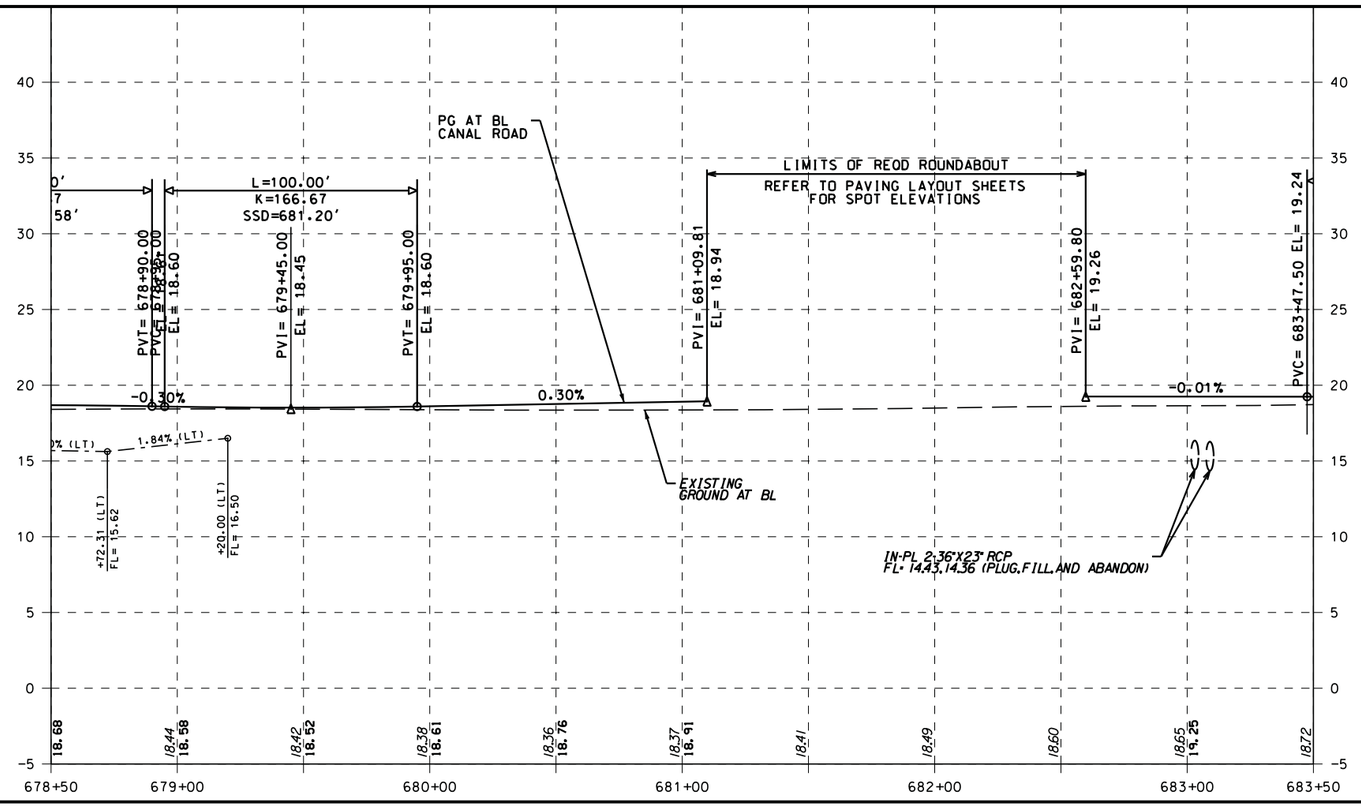
052_UTL_PLN.dgn
2021.12.31 14:14:06

SEE SHEET 52 FOR PLAN VIEW

SCALE (FEET) 30 HORIZ 0 30 5 VERT 0 5



SHEET NO. : 52-A

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

UTILITY PROFILE SHEET

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
2731 MAIN STREET, SUITE 2-202
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

CHECKED BY: -- | APPROVED BY: -- | DRAWN BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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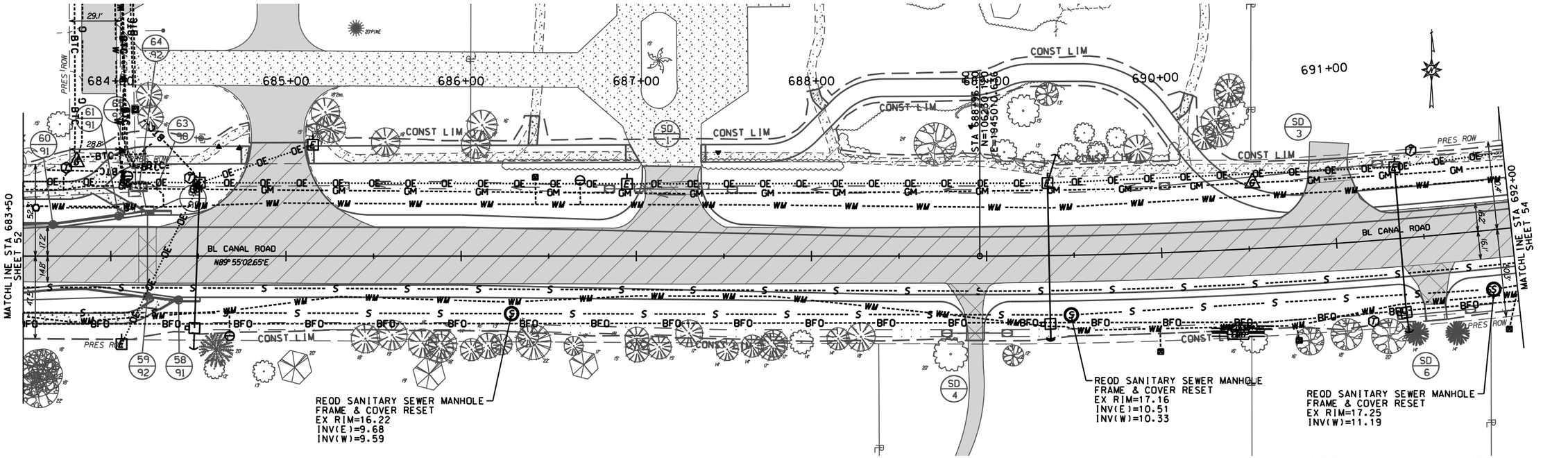
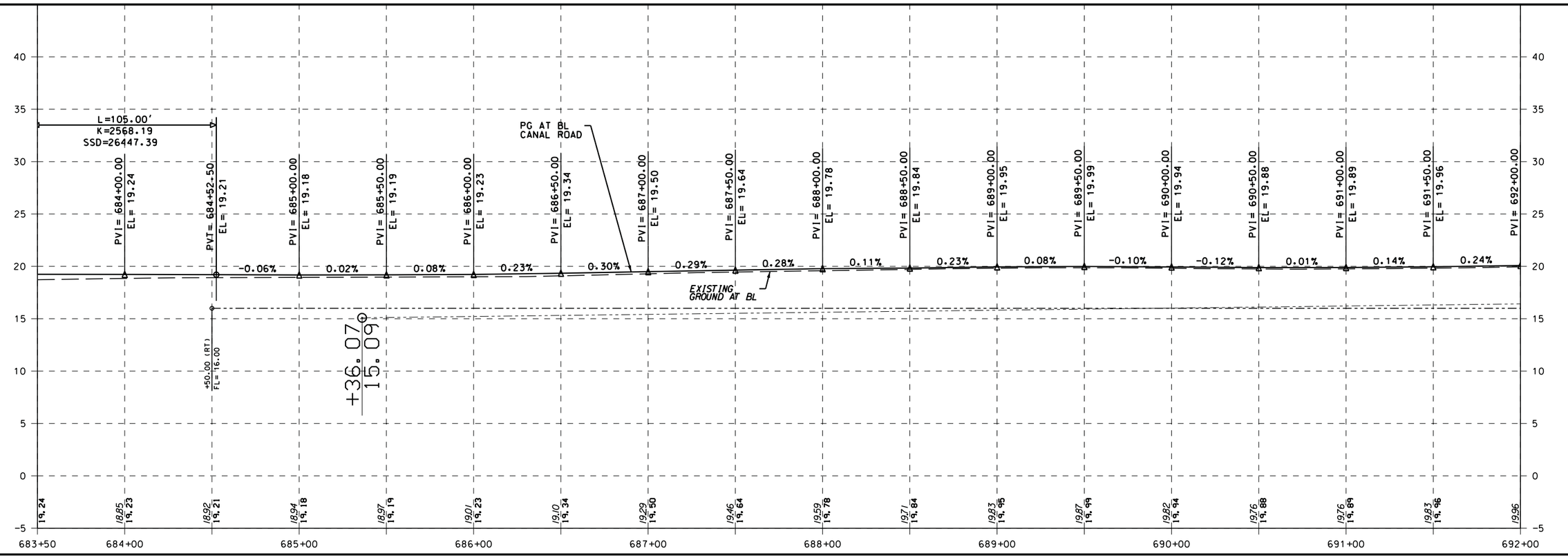
2021.12.31 14:14:09 052A_UTI_PRF.dgn





SHEET NO. : 53

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

UTILITY PLAN AND PROFILE SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251 MAGNOLIA STREET, SUITE 2
FOLEY, ALABAMA 36535
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

CHECKED BY: --
APPROVED BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'
DRAWN BY: --

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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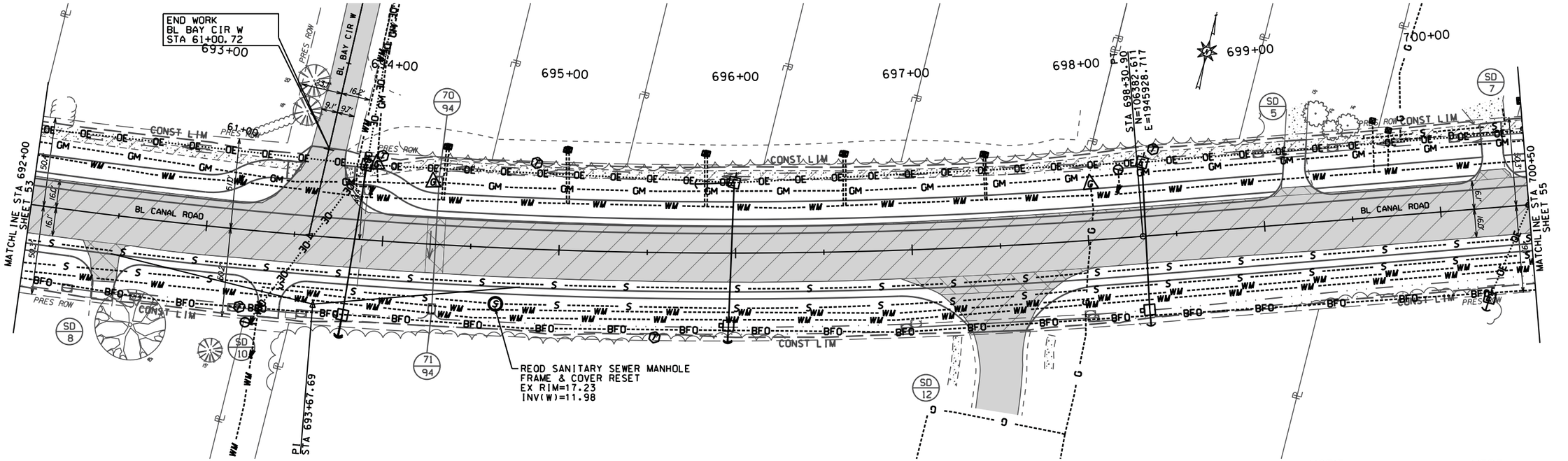
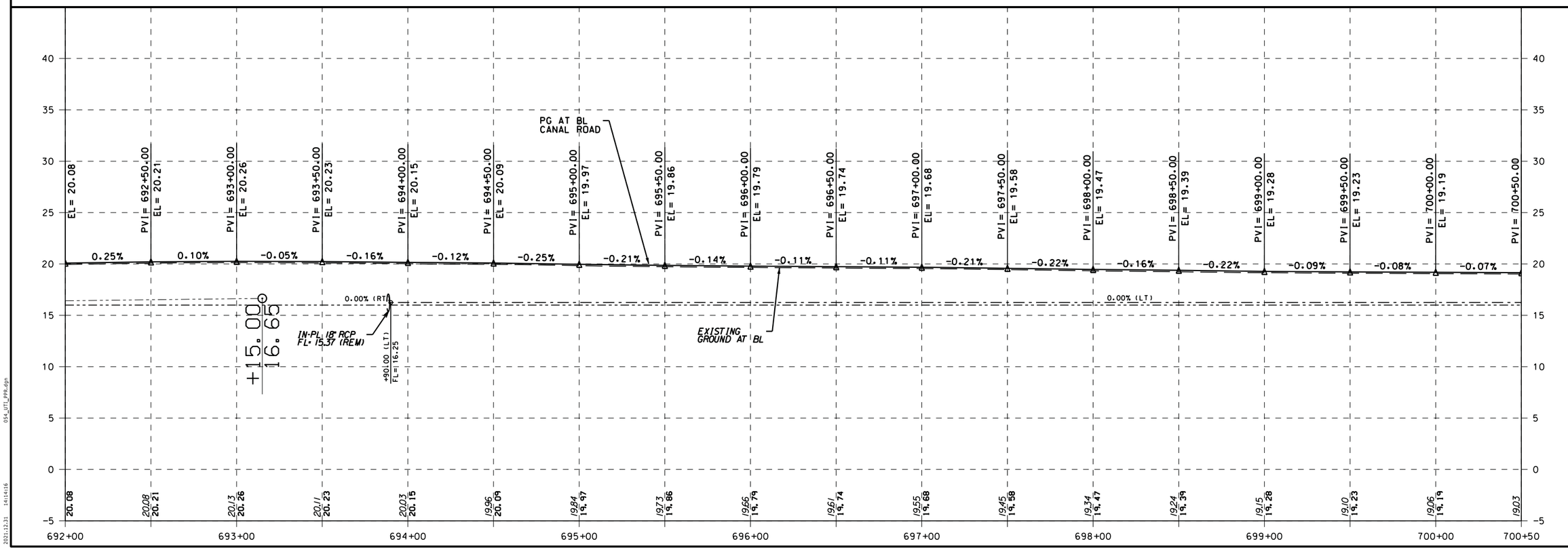
033_UTI_PPR.dgn
2021.12.21 14:14:13





SHEET NO. : 54

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

UTILITY PLAN AND PROFILE SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

CHECKED BY: --
APPROVED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'
VERT 1"=5'

THOMPSON ENGINEERING, INC.
2151 NAUTILUS STREET, SUITE
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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034_UTI_PFR.dgn
2021.12.21 14:14:16

SHEET NO. : 55

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

UTILITY PLAN AND PROFILE SHEET

REVISION NO. : --
JOB NO. : 20-1101-0085
DATE : DEC 2021
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'
VERT 1"=5'

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
27351 MARLYN STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

thompson ENGINEERING

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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END WORK
BL BAY CIR E
STA 81+06.27

BL BAY CIR E

701+00 702+00 703+00 704+00 705+00 706+00 707+00 708+00 709

81+00

PRES ROW CONST LIM

BL CANAL ROAD

MATCHLINE STA 700+50
SHEET 54

MATCHLINE STA 709+00
SHEET 56

72/94 73/94 SD 9 SD 11 SD 14 SD 16 SD 18

SCALE (FEET) 30 HORIZ 0 30 5 VERT 0 5

PG AT BL CANAL ROAD

EXISTING GROUND AT BL

IN-PL 18" RCP
FL= 16.57 (RT)
FL= 16.55 (LT)

-0.20%-0.30% (RT) -0.00% (RT) 0.00% (LT)

EL= 19.15 =0.05%
PVI= 701+00.00 EL= 19.13 0.11%
PVI= 701+50.00 EL= 19.19 0.12%
PVI= 702+00.00 EL= 19.24 0.18%
PVI= 702+50.00 EL= 19.33 0.14%
PVI= 703+00.00 EL= 19.40 0.27%
PVI= 703+50.00 EL= 19.54 0.29%
PVI= 704+00.00 EL= 19.68 0.34%
PVI= 704+50.00 EL= 19.85 0.32%
PVI= 705+00.00 EL= 20.01 0.27%
PVI= 705+50.00 EL= 20.15 0.23%
PVI= 706+00.00 EL= 20.26 0.05%
PVI= 706+50.00 EL= 20.29 -0.04%
PVI= 707+00.00 EL= 20.26 0.33%
PVI= 707+50.00 EL= 20.43 0.28%
PVI= 708+00.00 EL= 20.57 0.29%
PVI= 708+50.00 EL= 20.71 0.20%
PVI= 709+00.00

+50.00 (LT) FL= 16.25
+00.00 (RT) FL= 16.00
+30.00 (LT) FL= 17.22
+00.00 FL= 17.38
+25.00 (RT) FL= 16.57
+40.00 (RT) FL= 16.55
+62.50 (LT) FL= 16.75
+77.50 (LT) FL= 16.75

19.15 1901 19.13 1905 19.19 1911 19.24 1920 19.33 1927 19.40 1941 19.54 1955 19.68 1971 19.85 1988 20.01 2002 20.15 2013 20.26 2016 20.29 2013 20.26 2030 20.43 2044 20.57 2058 20.71 2068

700+50 701+00 702+00 703+00 704+00 705+00 706+00 707+00 708+00 709+00

40 35 30 25 20 15 10 5 0 -5

035_UTI_PFR.dgn
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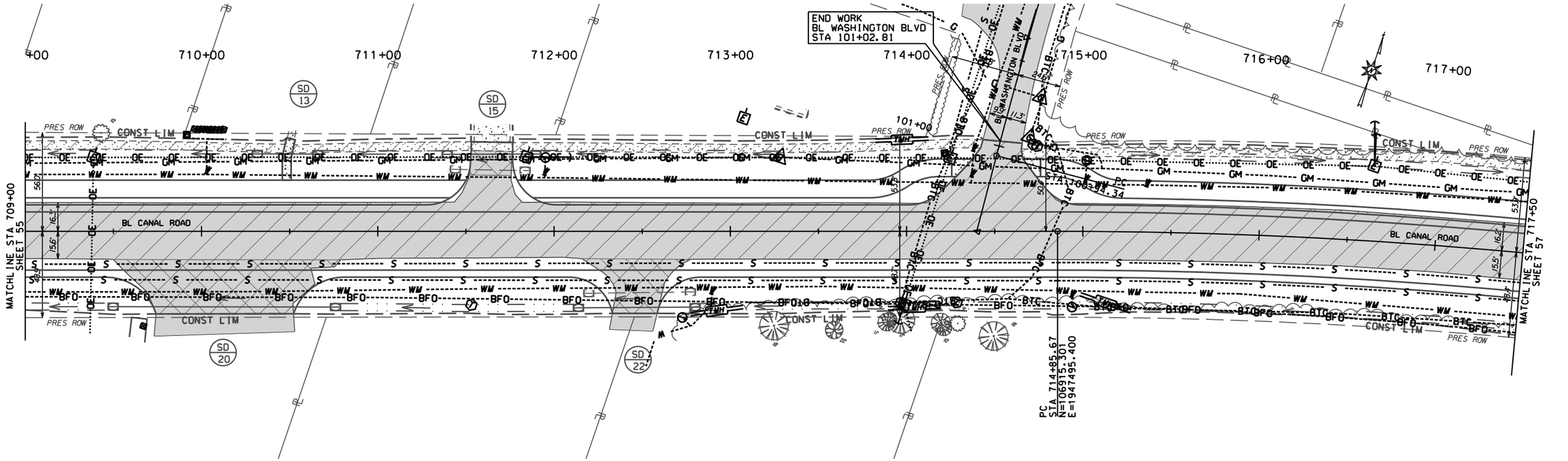

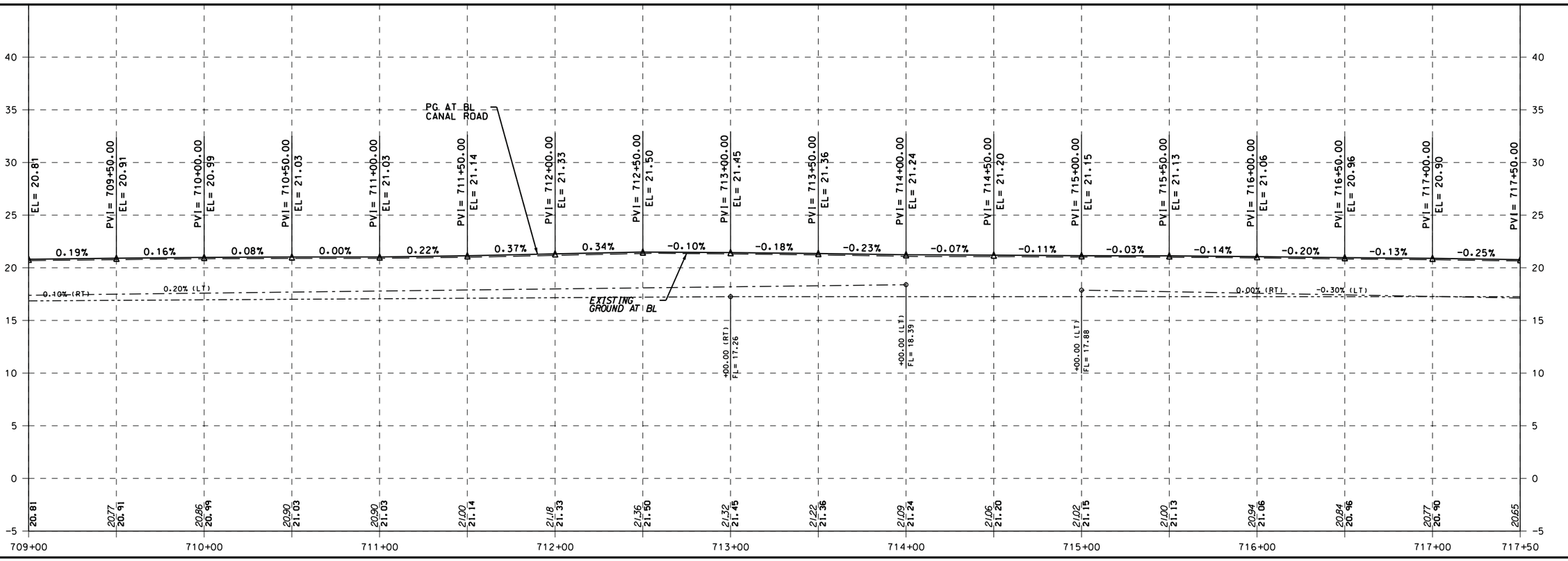

SHEET NO. : 56

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

UTILITY PLAN AND PROFILE SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
25351 MARLIN STREET, SUITE
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:

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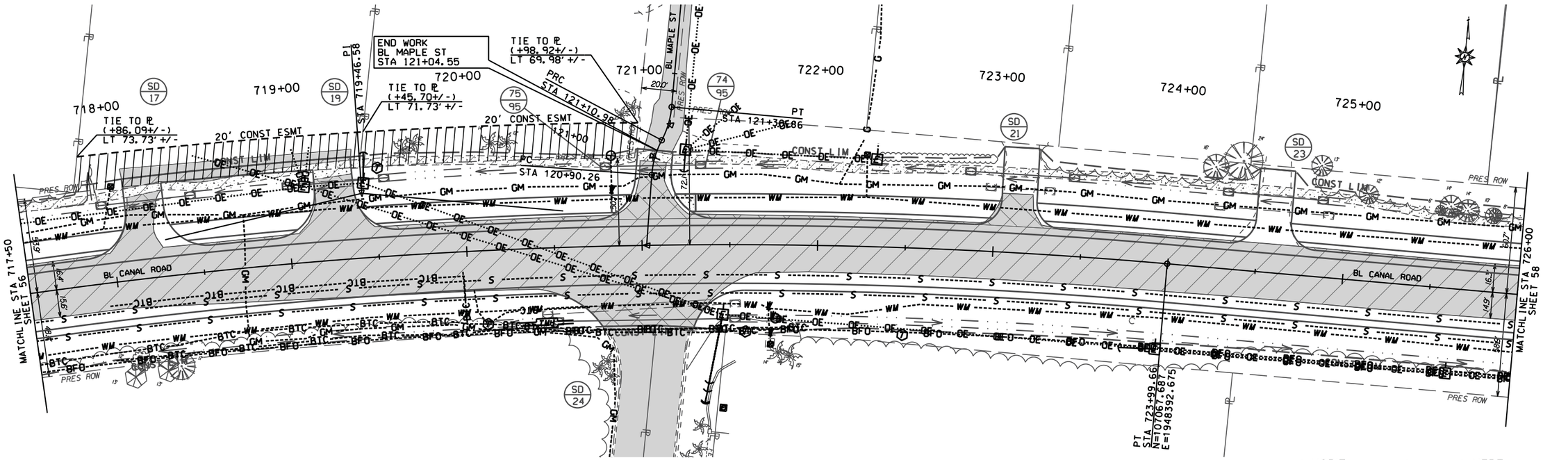
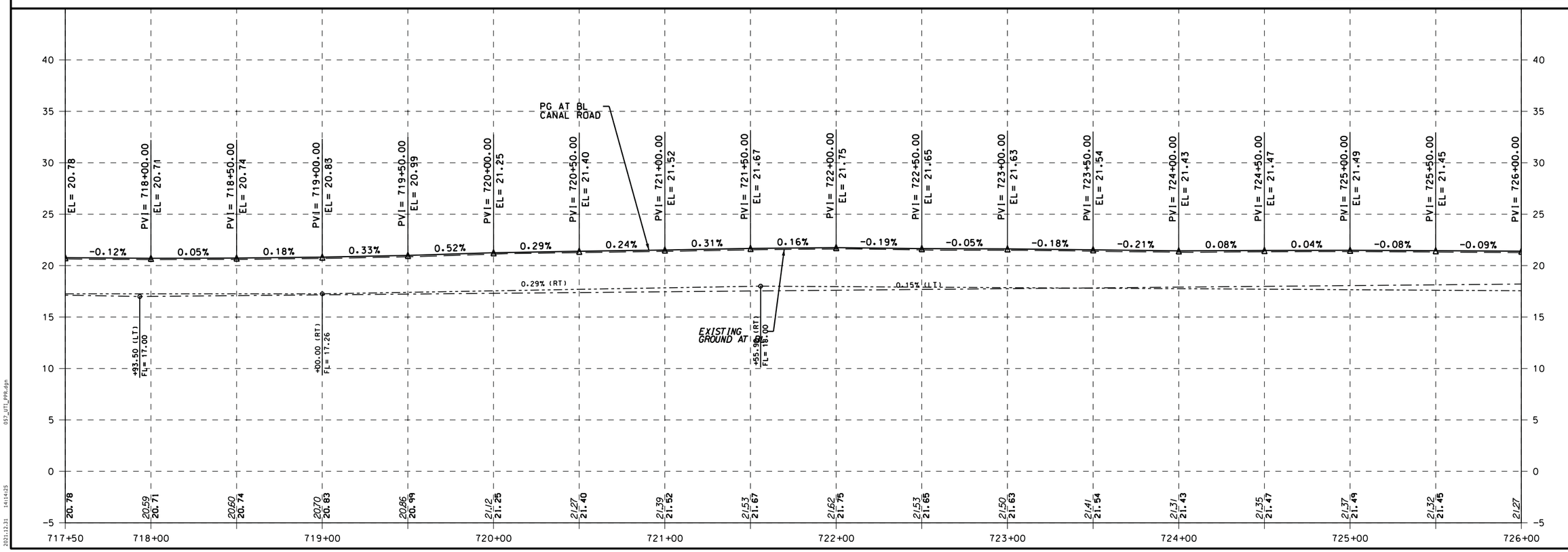
036_UTI_PFR.dgn
2021.12.21 14:14:22





SHEET NO. : 57

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

UTILITY PLAN AND PROFILE SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
251 N. MCKENZIE ST., SUITE 202
FOLEY, ALABAMA 36535
ORANGE BEACH (251) 378-6980

DRAWN BY: --
CHECKED BY: --
APPROVED BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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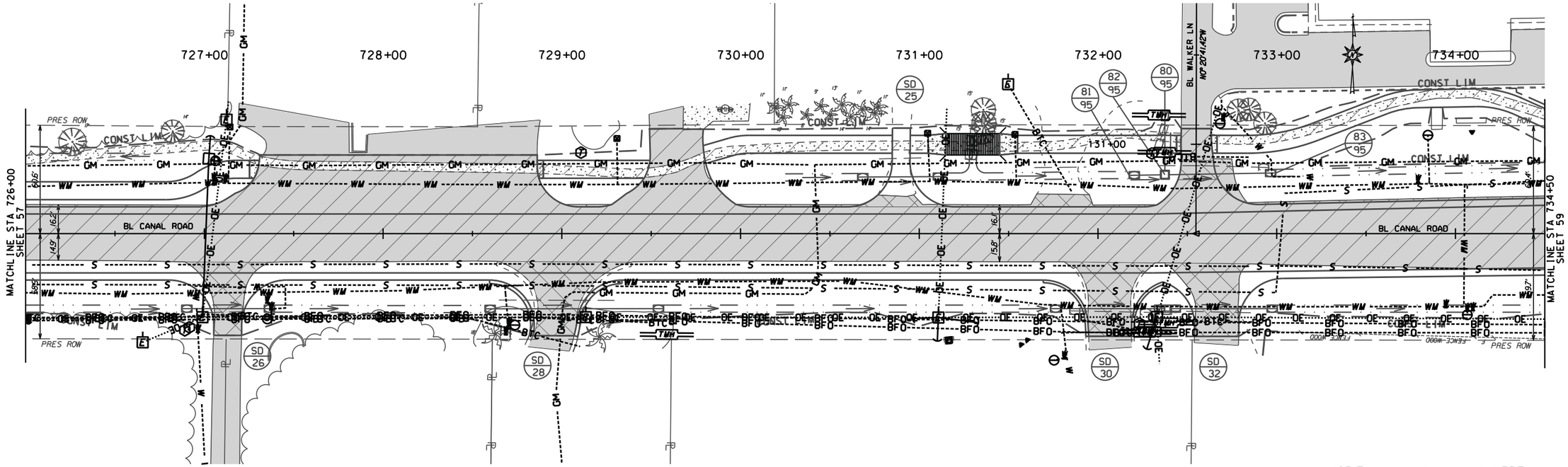
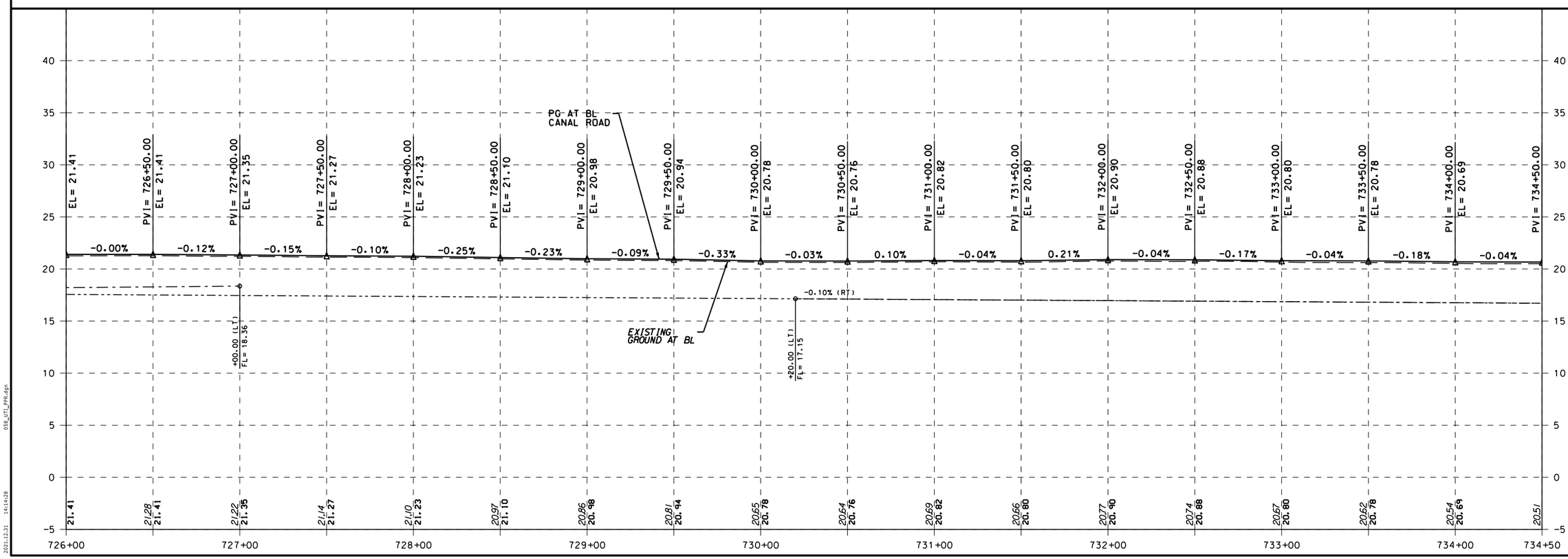
037_UTI_PFR.dgn
2021.12.21 14:14:25





SHEET NO. : 58

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

UTILITY PLAN AND PROFILE SHEET

REVISION NO. : --
JOB NO. : 20-1101-0085
DATE : DEC 2021
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'
VERT 1"=5'

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251 MAGNOLIA STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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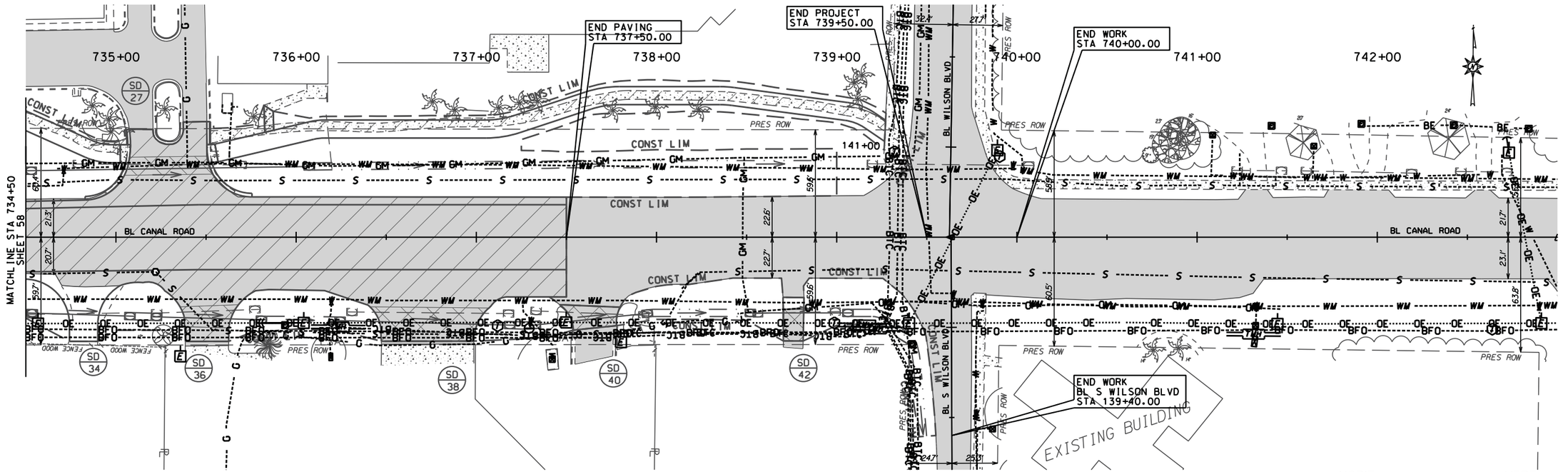
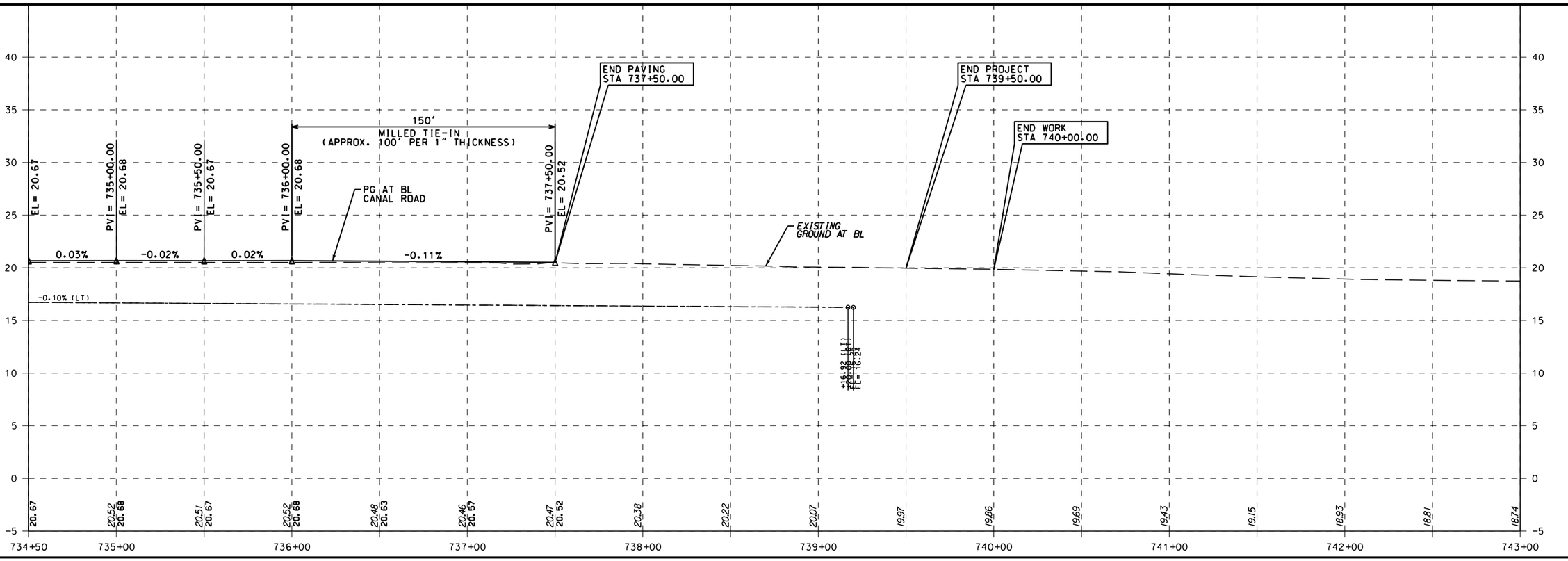
038_UTI_PPR.dgn
2021.12.21 14:14:28





SHEET NO.: 59

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

UTILITY PLAN AND PROFILE SHEET

JOB NO.: 20-1101-0085
DATE: DEC 2021
REVISION NO.: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY: thompson ENGINEERING

THOMPSON ENGINEERING, INC.
2151 NAUTICAL PKWY, SUITE 102
ORANGE BEACH, AL 36561
(251) 378-6980

CHECKED BY: --
APPROVED BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'
DRAWN BY: --

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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039_UTI_PFR.dgn
2021.12.21 14:14:31

SHEET NO. : 60

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

UTILITY PLAN SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251 MAGNOLIA PLACE, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

DRAWN BY: --
CHECKED BY: --
APPROVED BY: --
SCALE: HORIZ 1"=30'

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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MATCHLINE STA 207+50
SHEET 52

7+00
6+00
5+00
4+00
201+00
202+00
203+00
204+00
207+00

BL CALLAWAY DR
WB 22.75E

PC
STA 200+30.42
N=105626.522
E=1943531.082

PI
STA 200+34.42

PRC
STA 200+38.36
N=105625.270
E=1943538.878

PT
STA 200+80.37

PT
STA 200+62.17
N=105621.12
E=1943562.266

PC
STA 204+03.18
N=105618.523
E=1943903.262

PI
STA 206+74.69
N=105828.088
E=1944065.591

PT
STA 206+46.85

PC
STA 206+15.78
N=105758.078
E=1944053.403

PRC
STA 205+57.89
N=105738.211
E=1944021.883

PT
STA 205+57.69

PC
STA 205+48.02
N=105723.698
E=1943999.606

PC
STA 205+83.41
N=105751.340
E=1944030.486

PI
STA 205+90.91

PT
STA 206+11.24
N=105824.520
E=1943915.380

PC
STA 205+02.92
N=105709.020
E=1943918.020

PRC
STA 205+19.36
N=105726.938
E=1943918.020

PT
STA 205+11.79
N=105719.853
E=1943966.053

PC
STA 205+02.92

205+00

500-YEAR FLOODPLAIN
(eff.4/19/2019)
ZONE "X"

100-YEAR FLOODPLAIN
(eff.4/19/2019)
ZONE "AE"(10')

ZONE "X"

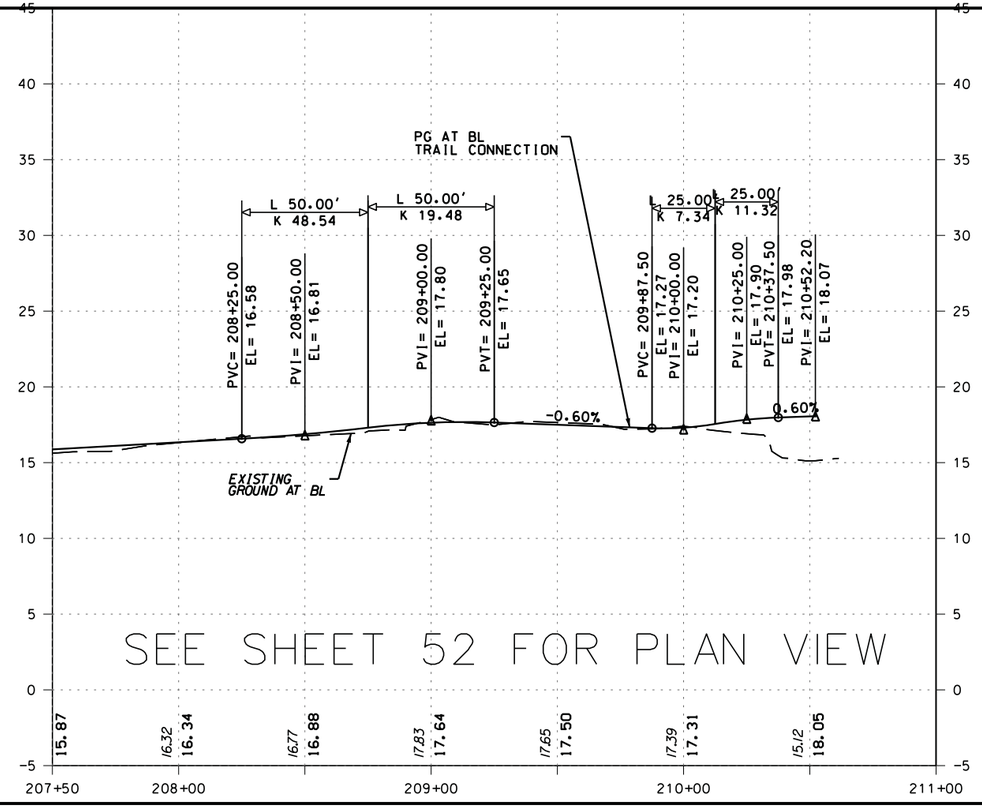
WETLANDS

CONST LIM
FENCE WOOD
FENCE W
WM
GM
OE
G
SS

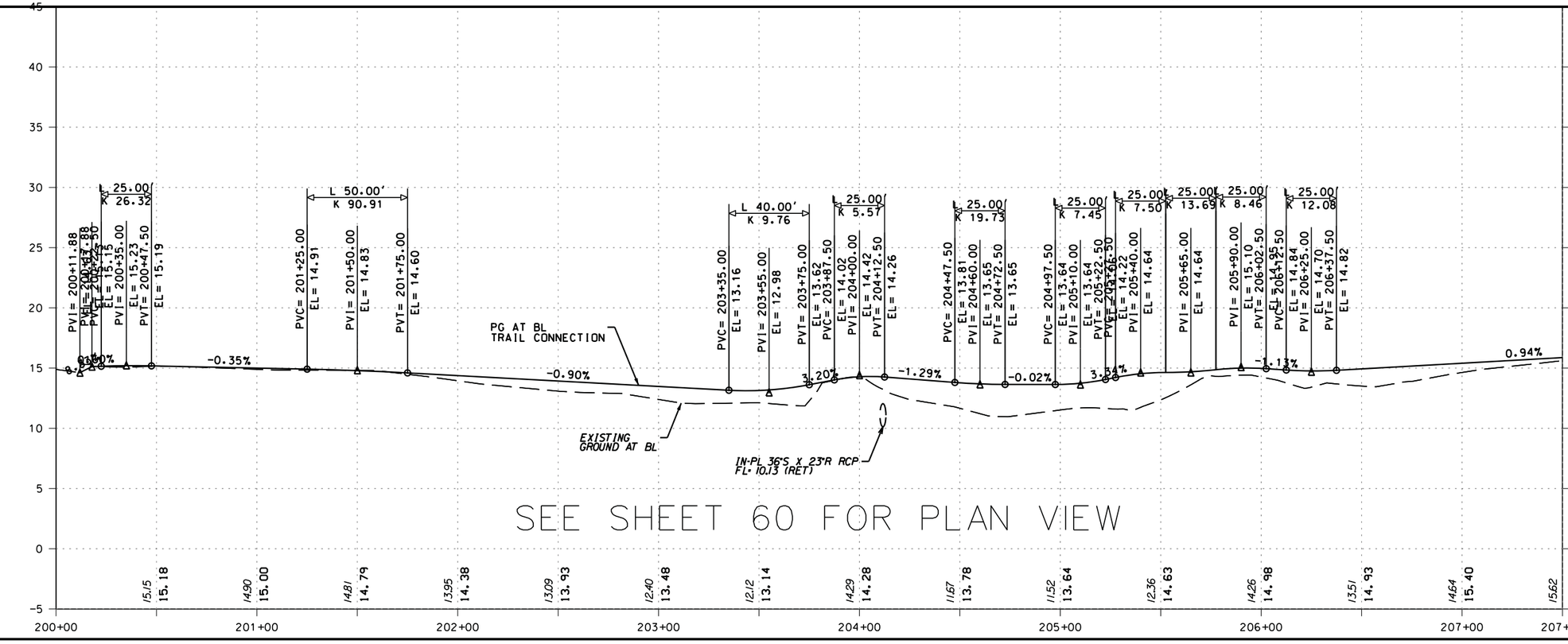
45 86
46 86
66 93
67 93
68 93
69 93

SCALE (FEET)
30 0 30

060_UTIL_PLN.dgn
2021.12.31 14:14:34



SCALE (FEET) 30 HORIZ 0 30 5 VERT 0 5



SHEET NO. : 60-A

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

UTILITY PROFILE SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
27331 MARISA STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

thompson ENGINEERING

PREPARED BY :

CHECKED BY: -- APPROVED BY: -- DATE : --

DRAWN BY: -- SCALE: HORIZ 1"=30' VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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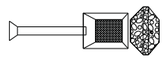
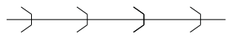
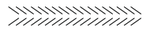
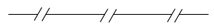
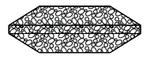
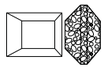
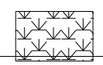
060A_UTL_PRF.dgn
2021.12.31 14:14:37

BEST MANAGEMENT PRACTICES (BMP's)

TEMPORARY SLOPE DRAIN PIPE WITH ROCK DITCH CHECK AND SUMP EXCAVATION	
TEMPORARY EARTH BERM	
BRUSH BARRIER	
SILT FENCE SEDIMENT BARRIER	
FLOATING BASIN BOOM	
HAY BALE DITCH CHECK	
SAND BAG DITCH CHECK	
WATTLE DITCH CHECK	
SILT DIKE DITCH CHECK	
ROCK DITCH CHECK	
ROCK DITCH CHECK WITH SUMP EXCAVATION	
SILT FENCE DITCH CHECK	

INLET PROTECTION	
STABILIZED CONSTRUCTION ENTRANCE	
EROSION CONTROL PRODUCTS	
SLOPE DRAIN	
TEMPORARY EARTH BERM WITH POLYETHYLENE	
DREDGE, FILL	
SEDIMENT RETENTION BARRIER	
SOLID SODDING	
TEMPORARY RIPRAP BERM	

SHEET NO. : 69

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

EROSION AND SEDIMENT CONTROL
LEGEND SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson
ENGINEERING

THOMPSON ENGINEERING, INC.
23351 MARGATE AVENUE, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

SCALE: --
DRAWN BY: --
CHECKED BY: --
APPROVED BY: --

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REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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2021.12.31 14:14:39 069_ECP_LEG.dgn

SHEET NO. : 70

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

EROSION CONTROL PLAN SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

DRAWN BY: --

CHECKED BY: --

APPROVED BY: --

DATE: --

SCALE: 1"=30'

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
FIRST AMERICA PLACE, SUITE 1232
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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BEGIN WORK
BL CANAL RD (SR-180)
M.P. 28.32
STA 665+00.00

BEGIN PROJECT
BL CANAL RD
STA 667+54.83

STA 666+25.25 PI

PC
STA 662+73.58
N=106147.867
E=1942402.

PT
STA 669+69.14
N=106236.440
E=1943083.701

END WORK
BL SR-161
M.P. 1.70
STA 88+20.44

MATCHLINE STA 670+00
SEE SHEET 71

BL CANAL ROAD
N69° 23'15.63"E

S89° 44'44.02"E

BL SR-161
N0° 18'33.53"E

PRES ROW

CONST LIM

FENCE WOOD

"ACE HARDWARE"
"BEACHES"
"THE COMMONS"
"BUSINESS SIGNS"
"CURVE"
"FBX"
"WEST 180"
"FSB"
"JUNC"
"TPNR"
"STREET"
"L/R CHURCH"
"ASB"
"NP"
"YIELD"
"LIBRARY"
"I-10 TOLL"

662+00
663+00
664+00
665+00
666+00
667+00
668+00
669+00
87+00
88+00
89+00

54.9'
45.8'
40.58'
39.22'
54.8'
45.8'
32.64'
27.86'
19.22'
26.54'

SCALE (FEET) 30 0 30

070_EC7.dgn
2021.12.31 14:20:22

MATCHLINE STA 670+00
SHEET 70

MATCHLINE STA 678+50
SHEET 72

671+00 672+00 673+00 674+00 675+00 676+00 677+00 678+00

13+00 12+00 11+00 10+00 9+00 8+00

END WORK
BL CALLAWAY DRIVE
STA 11+59.77

END WORK
BL CALLAWAY DRIVE
STA 9+13.94

BL CANAL ROAD
S89°44'44.02"E

BL CALLAWAY DR
N0°02'39.15"W

BL CALLAWAY DR
N0°22'15.75"E

PRES ROW
CONST LIM
FENCE WOOD
"DNE"
"UAHR"
"SIGN"
"REST"
"SL50"
"SFB"
"TX"
"STREET"
"FBS"
"STOP"
"HPGL"
"SOUTH"
"SIDE ALLEY"
18.9'
27.42'
19.36'
18.5'
16.4'
16.5'
11.9'
16.5'
10.4'

SCALE
(FEET)
30 0 30

2021.12.31 14:20:26
071_ECP.dgn

SHEET NO. : 71

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

EROSION CONTROL PLAN SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :
DRAWN BY: --
CHECKED BY: --
APPROVED BY: --
SCALE: 1"=30'

THOMPSON ENGINEERING, INC.
251 MAGNOLIA STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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MATCHLINE STA 678+50
SHEET 71

208+00 209+00 210+00 679+00 680+00 681+00 682+00 683+00 27+00 28+00 29+00 30+00 31+00

MATCHLINE STA 207+50
SHEET 77

CONST LIM FENCE WOOD CONST LIM

PC
STA 210+09.07
N=1061162.466
E=1944085.048

BL CANAL ROAD
S89°44'40"E 1176.68

PT
STA 679+37.48
N=1061138.090
E=1943090.505

+48.94
TIE TO PRES
(RT 49.43' +/-)

ACOD ROW

+23.57
(RT 124.03')

STA 681+29.82
N=1062331.265
E=1944244.324

+42.01
(RT 121.78')

PI
STA 682+39.80
N=1062811.476
E=1944354.338

+31.78
TIE TO PRES
(RT 47.34' +/-)

BL CANAL ROAD
N89°55'02"E

MATCHLINE STA 683+50
SHEET 73

+44.60
TIE TO PRES
(LT 51.86' +/-)

+33.04
(LT 127.97')

+65.87
(LT 127.47')

+65.58
(LT 107.47')

+97.26
TIE TO PRES
(LT 52.43' +/-)

END WORK
BL NORTH ACCESS
STA 30+15.00

BL NORTH ACCESS
N0°03'20"E

EXISTING BUILDING
EXISTING BUILDING
EXISTING BUILDING
EXISTING BUILDING
FFE=17.09'

CONCRETE WASHOUT

LIBRARY
PLANTER
PAVERS
PRESERVE
NO PARKING
PORCH

SCALE (FEET) 30 0 30

SHEET NO. : 72

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

EROSION CONTROL PLAN SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING
DRAWN BY: --
CHECKED BY: --
APPROVED BY: --
SCALE: 1"=30'

THOMPSON ENGINEERING, INC.
1731 GULF SHORES PKWY, SUITE 2
GULF SHORES, ALABAMA 36542
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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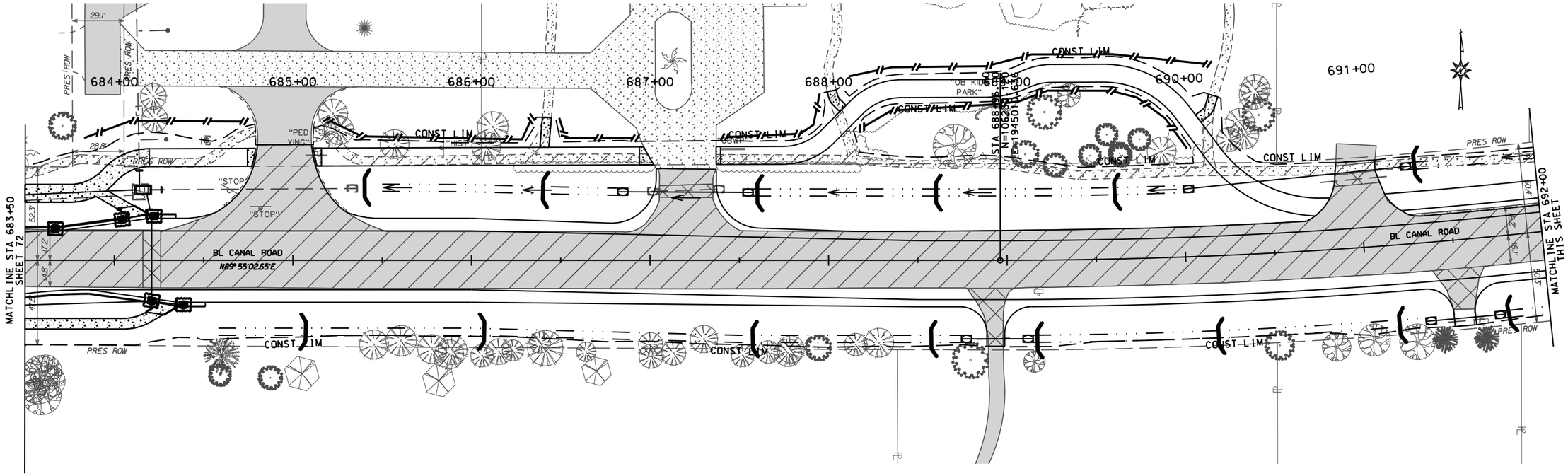
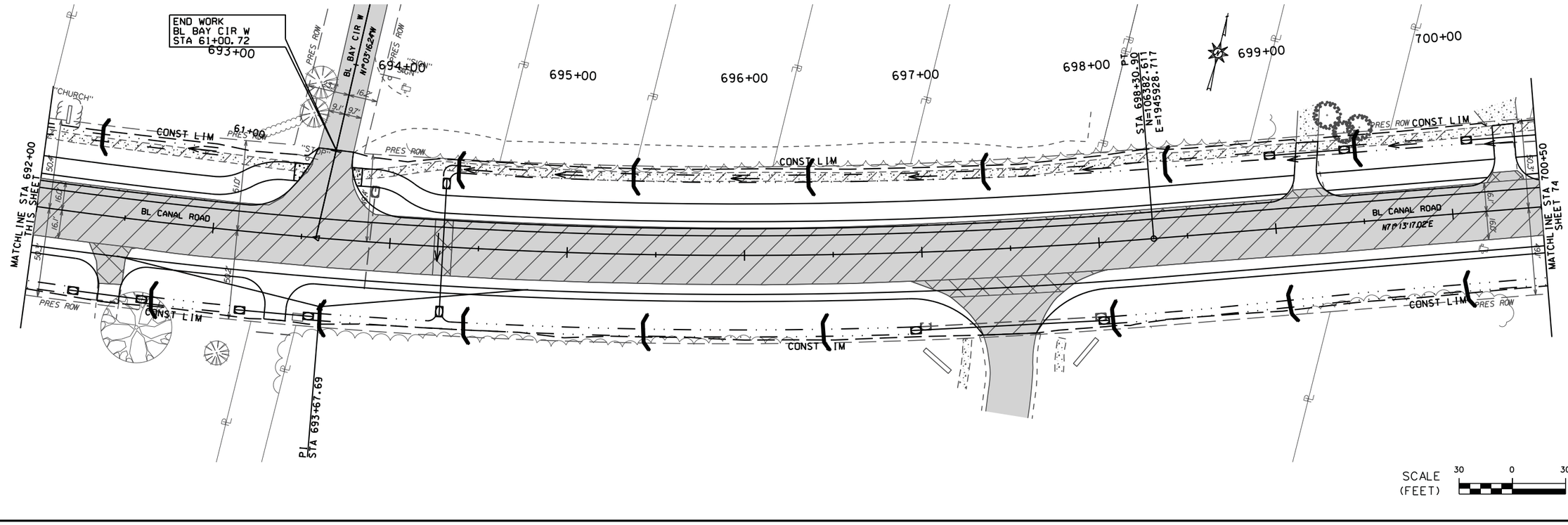
2021.12.31 14:20:39





SHEET NO. : 73

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

EROSION CONTROL PLAN SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'
VERT 1"=5'

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
27351 MARLIN STREET, SUITE
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

thompson ENGINEERING

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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073_EOP.dgn
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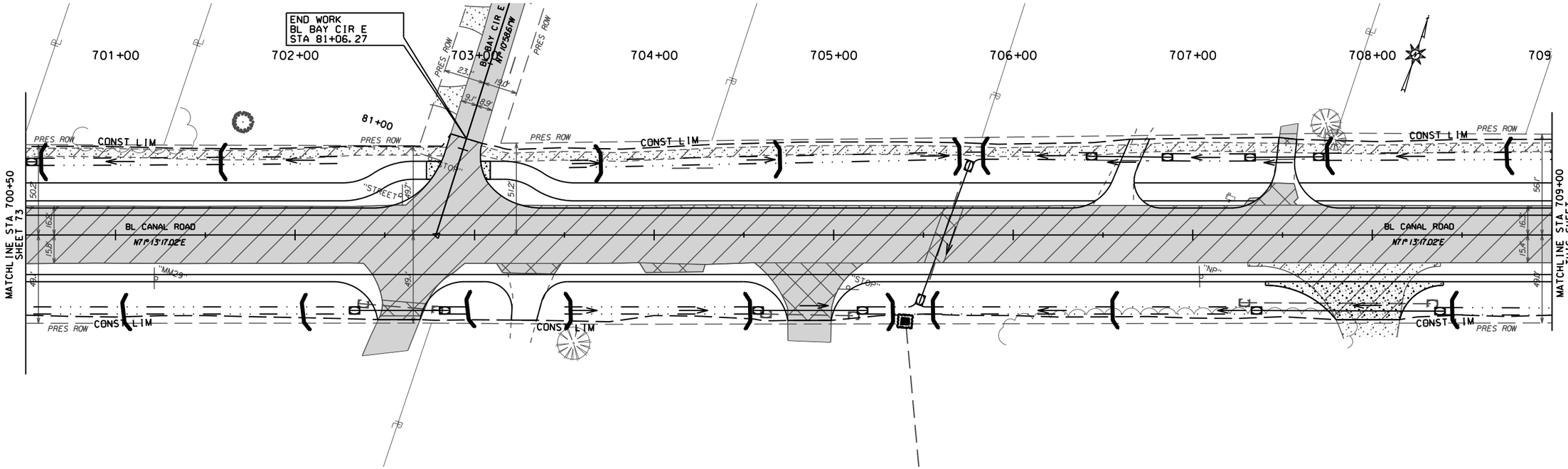

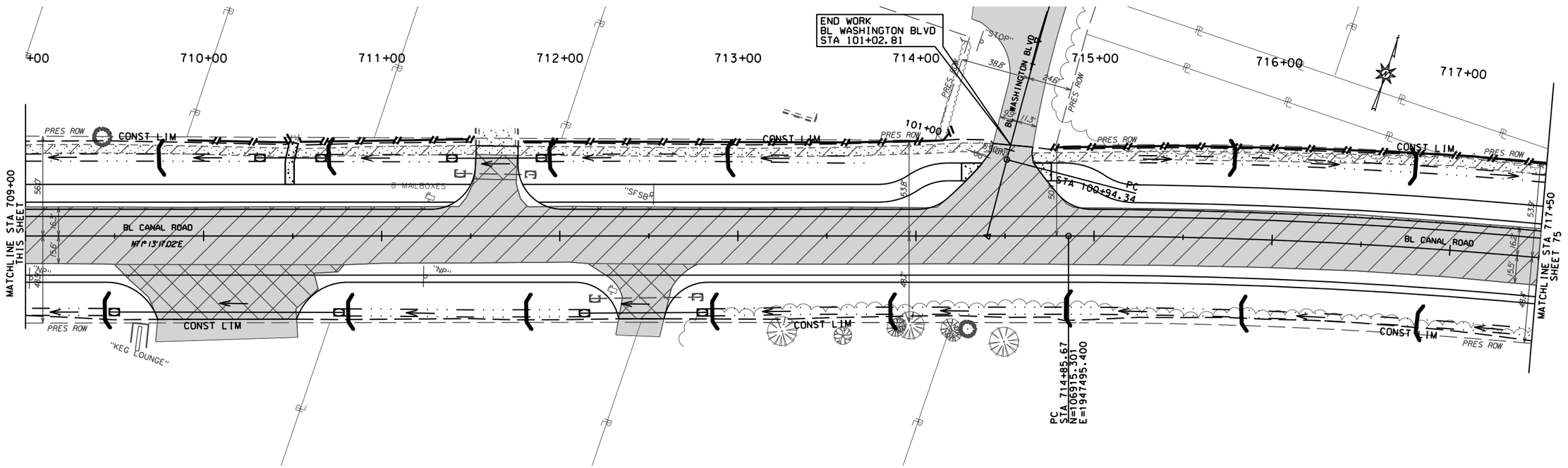

SHEET NO. : 74

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

EROSION CONTROL PLAN SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
3531 MAIN STREET, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

SCALE: HORIZ 1"=30'
VERT 1"=5'

DRAWN BY:
CHECKED BY:
APPROVED BY:

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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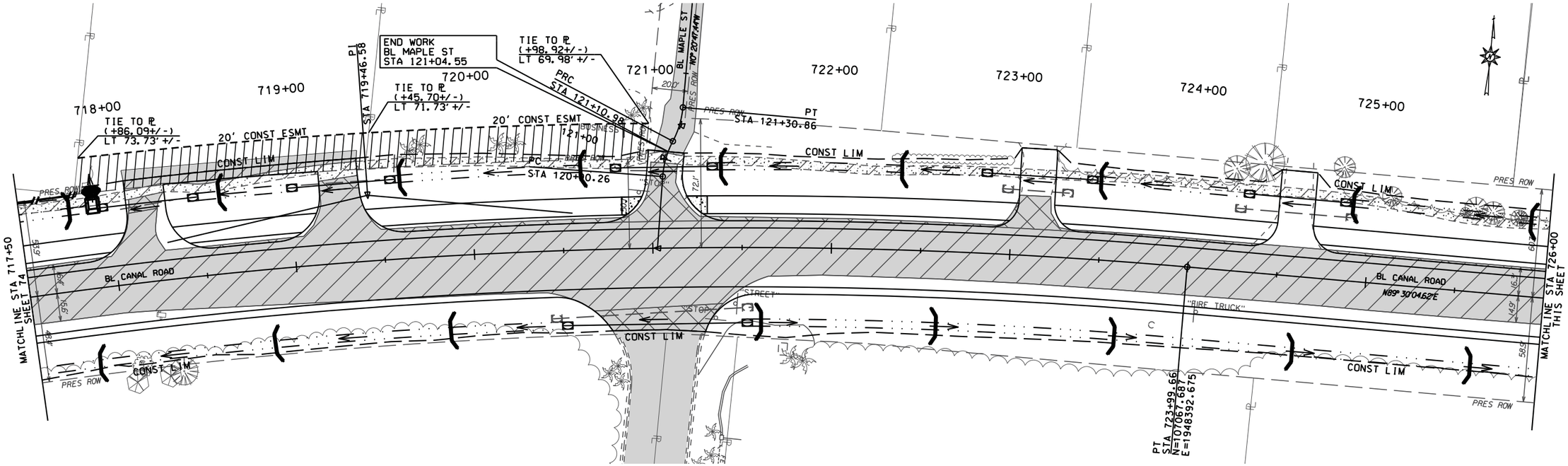

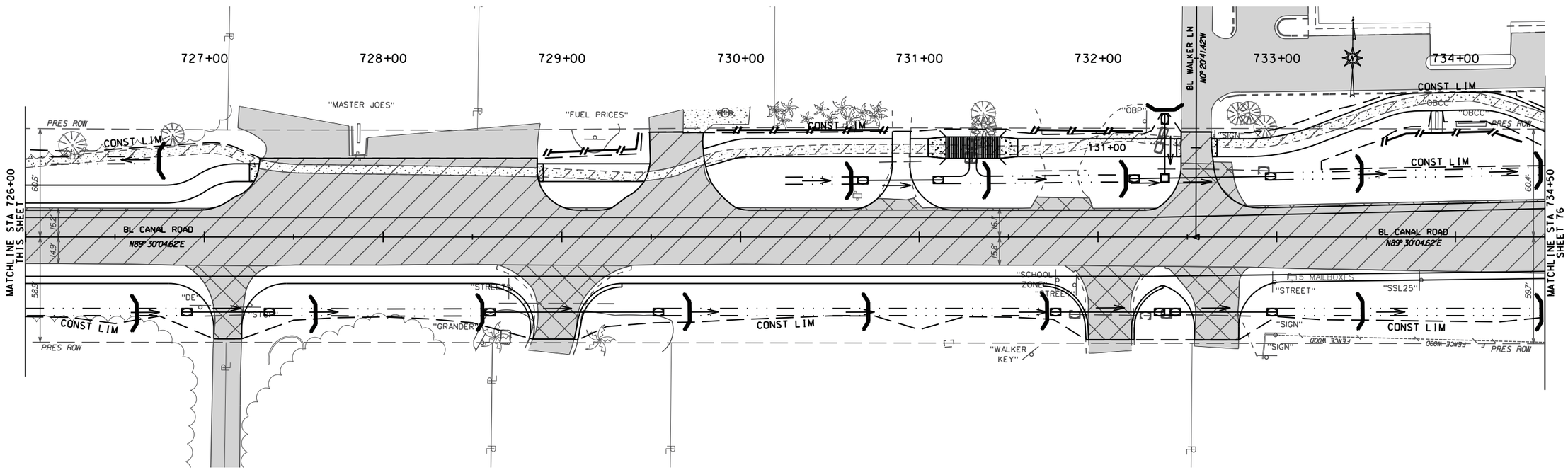

SHEET NO. : 75

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

EROSION CONTROL PLAN SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
251 MAGNOLIA STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

APPROVED BY: --

CHECKED BY: --

DRAWN BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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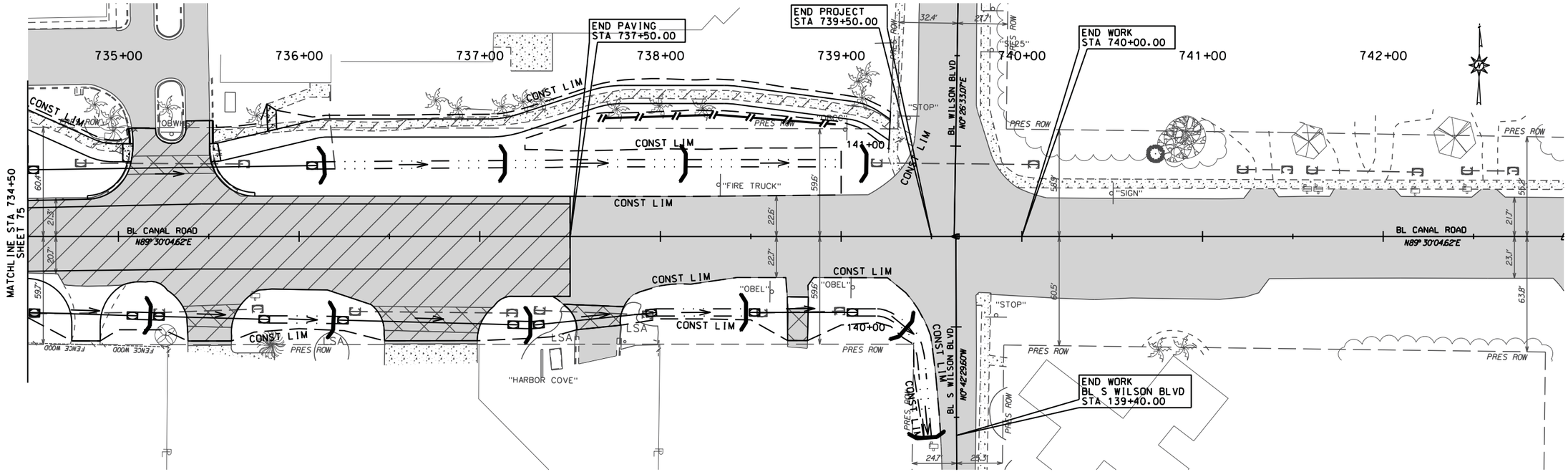

SCALE (FEET) 30 0 30

SHEET NO. : 76

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

EROSION CONTROL PLAN SHEET

JOB NO. : 20-1101-0085
REVISION NO. : --
DATE : DEC 2021
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'
VERT 1"=5'

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251A McMEANS AVENUE
ORANGE BEACH, AL 36561
(251) 378-6980

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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076_EOP.dgn
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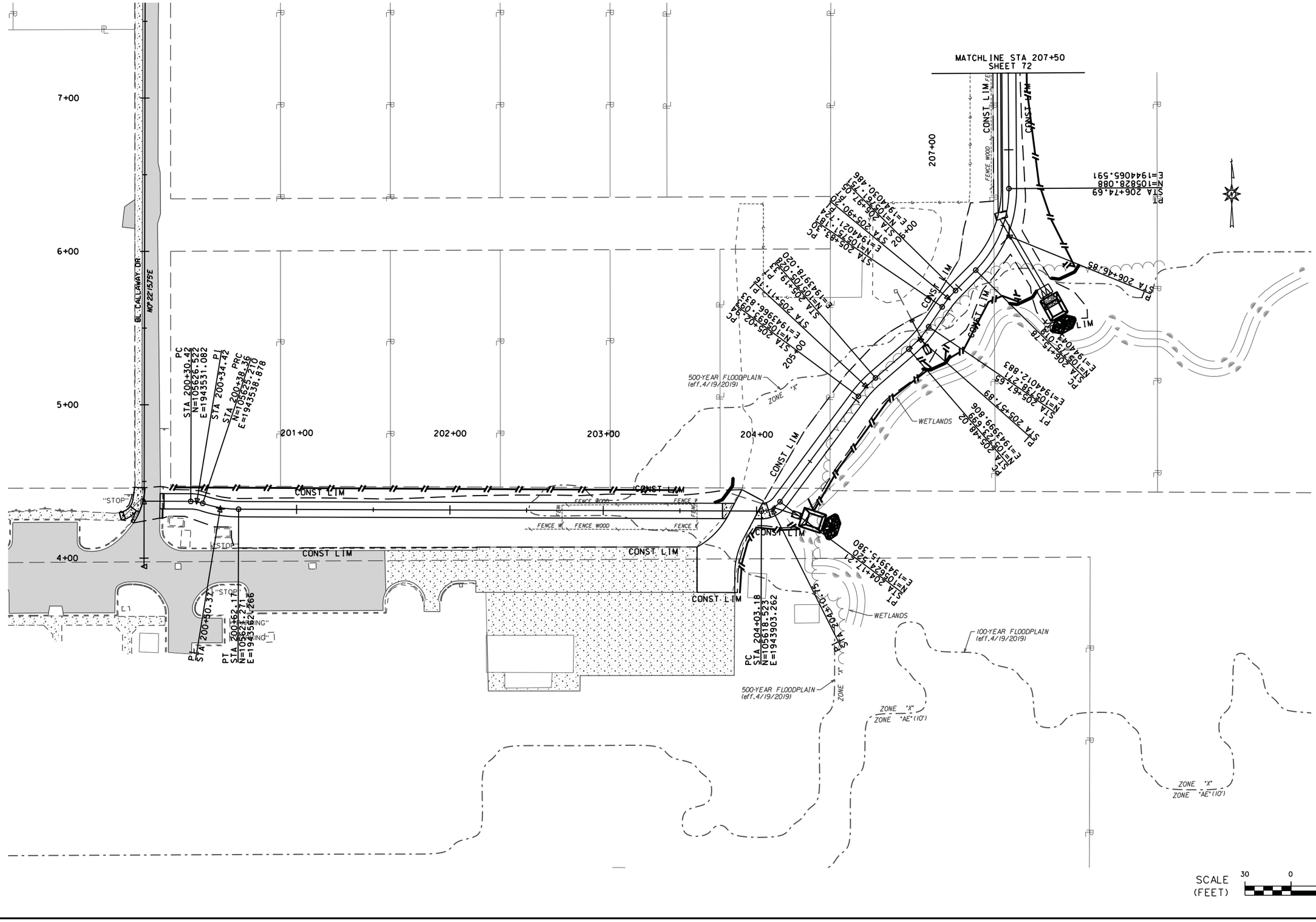

SHEET NO. : 77

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

EROSION CONTROL PLAN SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

DRAWN BY: --
CHECKED BY: --
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DATE: --

SCALE: HORIZ 1"=30'

THOMPSON ENGINEERING, INC.
27351 MARCELL ST, SUITE
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

thompson ENGINEERING

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THE PROJECT AND IS NOT TO BE USED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THOMPSON ENGINEERING. ANY UNAUTHORIZED USE OF THESE DESIGNS SHALL BE SUBJECT TO LEGAL ACTION UNDER STATE AND FEDERAL LAW.

077_ECP.dgn
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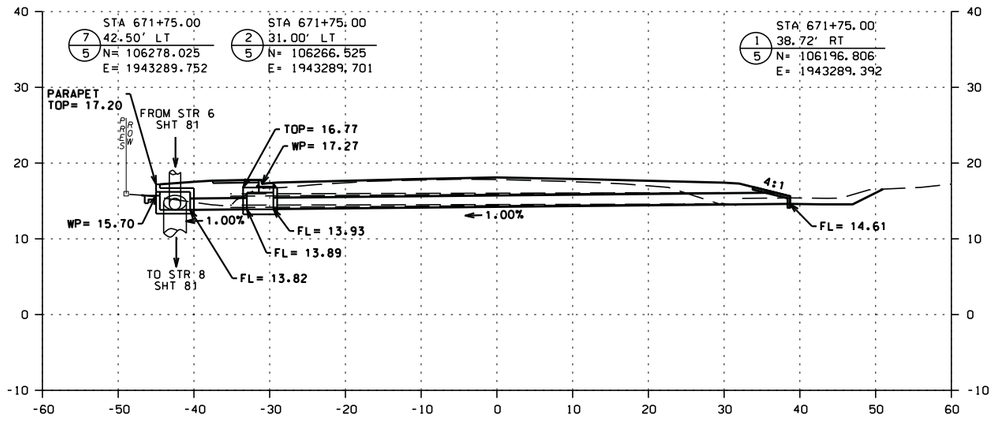


STA 671+75.00 BL CANAL RD, NO SKEW

IN-PL: STA 671+73.75, NO SKEW, 29"S X 18"R RCP (DOUBLE LINE)
(REMOVE 130 LIN FT TOTAL)

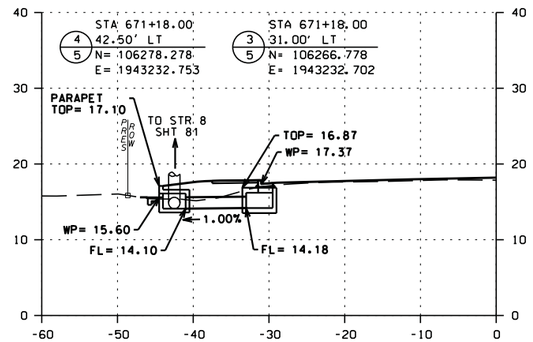
1/5 — 1 EA - 29"S X 18"R ROADWAY PIPE END TREATMENT, CLASS 1 (DOUBLE LINE), 4:1 SLOPE, NO SKEW

1/5 - 2/5 — 68.5 LIN FT - 29"S X 18"R STORM SEWER PIPE (CLASS 3 RC)(DOUBLE LINE)(137.0 LIN FT TOTAL)

2/5 — 1 EA - INLET, CURB AND GUTTER (DOUBLE) & JUNCTION BOX, TYPE 1 OR 2P

2/5 - 7/5 — 7.5 LIN FT - 29"S X 18"R STORM SEWER PIPE (CLASS 3 RC)(DOUBLE LINE)(15.0 LIN FT TOTAL)

7/5 — 1 EA - INLET, OPEN THROAT

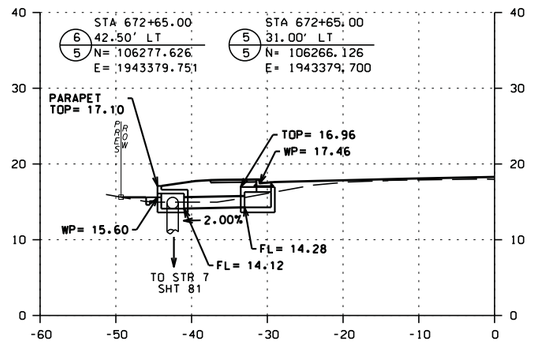


STA 671+18.00 BL CANAL RD, NO SKEW

3/5 — 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

3/5 - 4/5 — 8.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

4/5 — 1 EA - INLET, OPEN THROAT



STA 672+65.00 BL CANAL RD, NO SKEW

5/5 — 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

5/5 - 6/5 — 8.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

6/5 — 1 EA - INLET, OPEN THROAT

SHEET NO. : 80

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
251 MAGNOLIA STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

thompson ENGINEERING

PREPARED BY : --
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --

SCALE: HORIZ 1"=10'
VERT 1"=10'

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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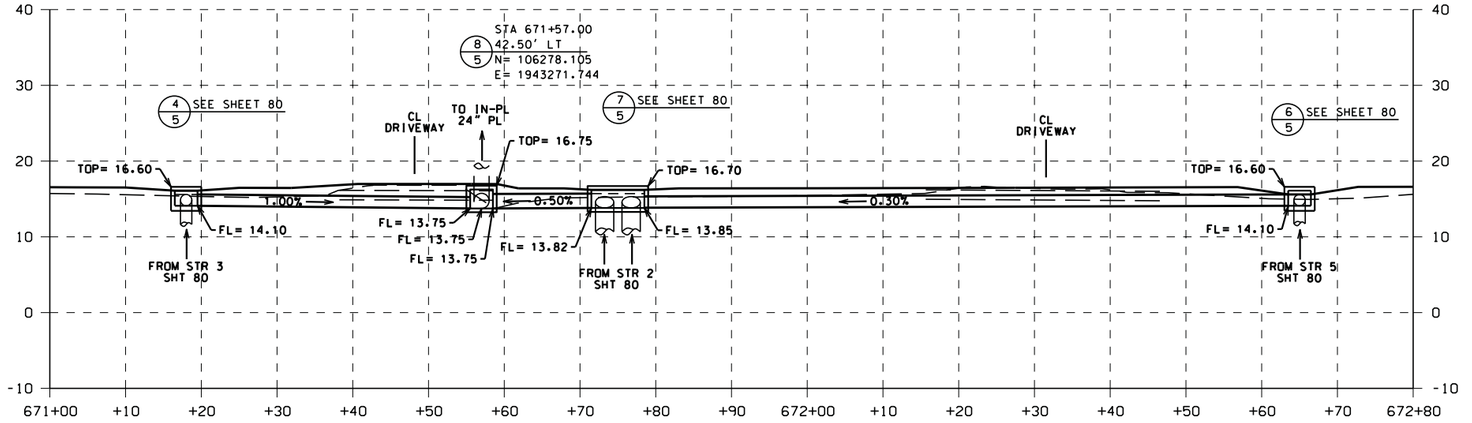
080_DSS.dgn



STA 671+00.00 TO STA 672+80.00 BL CANAL RD, LT SIDE

IN-PL: *STA 671+38.24 TO STA 671+48.49 LT,15"CPP (REMOVE 20 LIN FT)*
STA 671+57.00 LT 24" PL (PARTIALLY REMOVE 3 LIN FT)
STA 672+15.64 TO STA 672+47.25 LT,15"RCP (REMOVE 32 LIN FT)

4/5 SEE SHEET 80

4/5 – 8/5 36.0 LIN FT – 18" STORM SEWER PIPE (CLASS 3 RC)

8/5 1 EA – JUNCTION BOX, TYPE 1 OR 2P

7/5 – 8/5 13.0 LIN FT – 36"S X 23"R STORM SEWER PIPE (CLASS 3 RC)

7/5 SEE SHEET 80

6/5 – 7/5 85.0 LIN FT – 18" STORM SEWER PIPE (CLASS 3 RC)

6/5 SEE SHEET 80

SHEET NO. : 81

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
4334 MAIN STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

CHECKED BY: --
APPROVED BY: --
DRAWN BY: --

SCALE: HORIZ 1"=10'
VERT 1"=10'

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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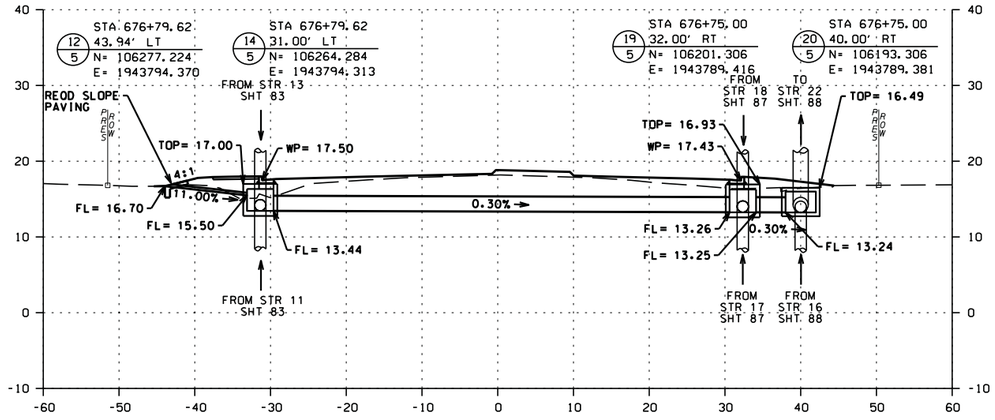

STA 676+77.35 BL CANAL RD, SKEW 4°30' RT BK

12/5 - 14/5 11.0 LIN FT - 4" STORM SEWER PIPE (PVC)(DOUBLE LINE)(22.0 LIN FT TOTAL)

14/5 1 EA - INLET, CURB AND GUTTER (DOUBLE) & JUNCTION BOX, TYPE 1 OR 1P

14/5 - 19/5 60.2 LIN FT - 24" STORM SEWER PIPE (CLASS 3 RC)

19/5 1 EA - INLET, CURB AND GUTTER (DOUBLE) & JUNCTION BOX, TYPE 1 OR 1P

19/5 - 20/5 4.5 LIN FT - 24" STORM SEWER PIPE (CLASS 3 RC)

20/5 1 EA - JUNCTION BOX, TYPE 1 OR 1P

SHEET NO. : 82

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
25161 ARTHUR BLVD. SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

thompson ENGINEERING

PREPARED BY :

DRAWN BY: -- CHECKED BY: -- APPROVED BY: --

DATE : DEC 2021

JOB NO. : 20-1101-0085

REVISION NO. : --

SCALE: HORIZ 1"=10'
VERT 1"=10'

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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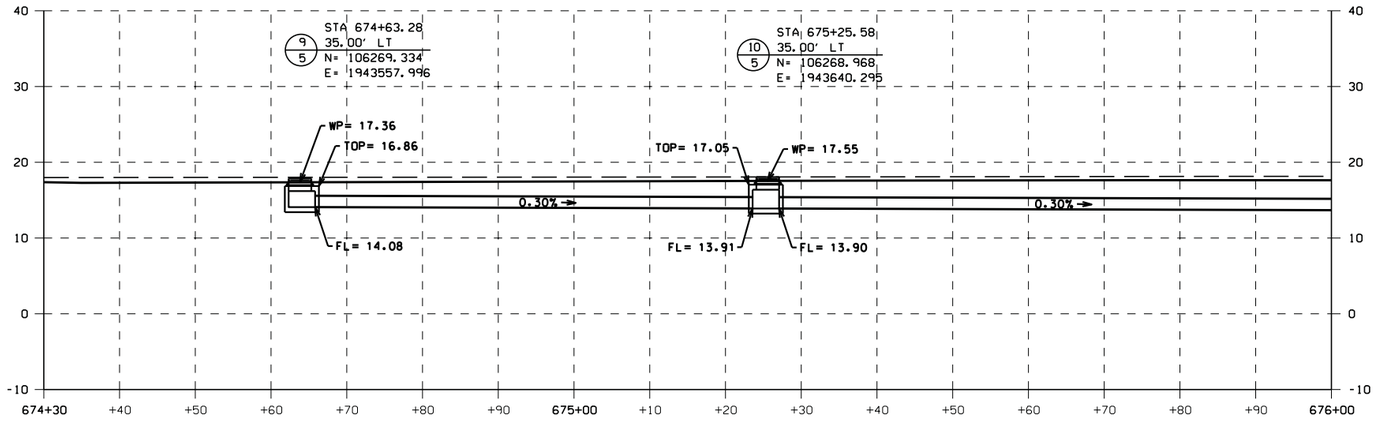


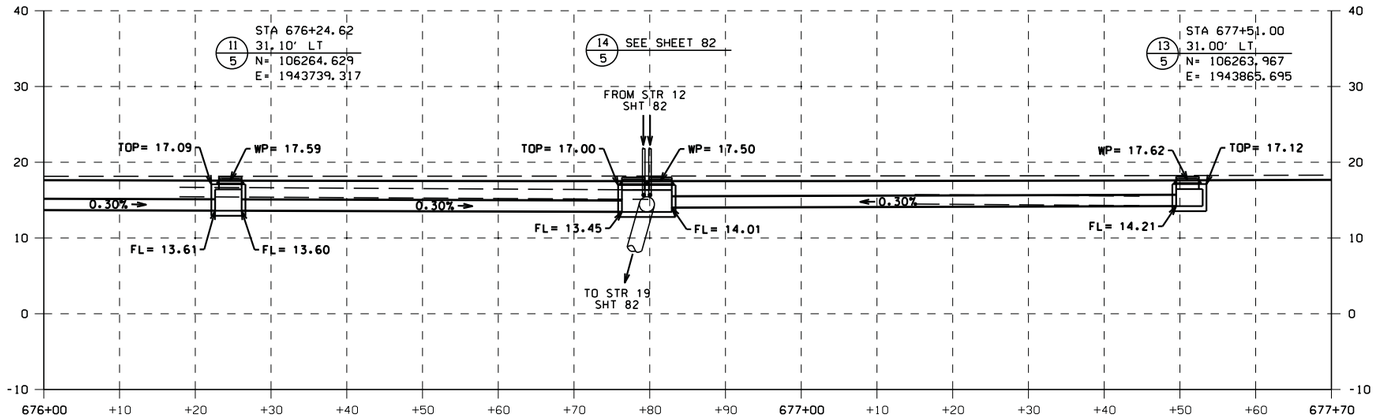
STA 674+30.00 TO 677+00.00 BL CANAL RD, LT SIDE

9/5 — 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

9/5 - 10/5 — 58.8 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

10/5 — 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

10/5 - 11/5 — 95.6 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)



STA 676+00.00 TO 677+70.00 BL CANAL RD, LT SIDE

IN-PL: STA 676+06.26 TO 676+68.18,LT SIDE, 15" CMP & 2 - HDWL (REMOVE)
STA 677+03.32 TO 677+33.01,LT SIDE, 15" RCP (REMOVE)

11/5 — 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

11/5 - 14/5 — 50.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

14/5 — SEE SHEET 82

13/5 - 14/5 — 66.4 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

13/5 — 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

SHEET NO. : 83

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING
THOMPSON ENGINEERING, INC.
2731 GULF SHORES PKWY, SUITE 202
GULF SHORES, ALABAMA 36542
(251) 378-6990

CHECKED BY: --
APPROVED BY: --

SCALE: HORIZ 1"=10'
VERT 1"=10'
DRAWN BY: --

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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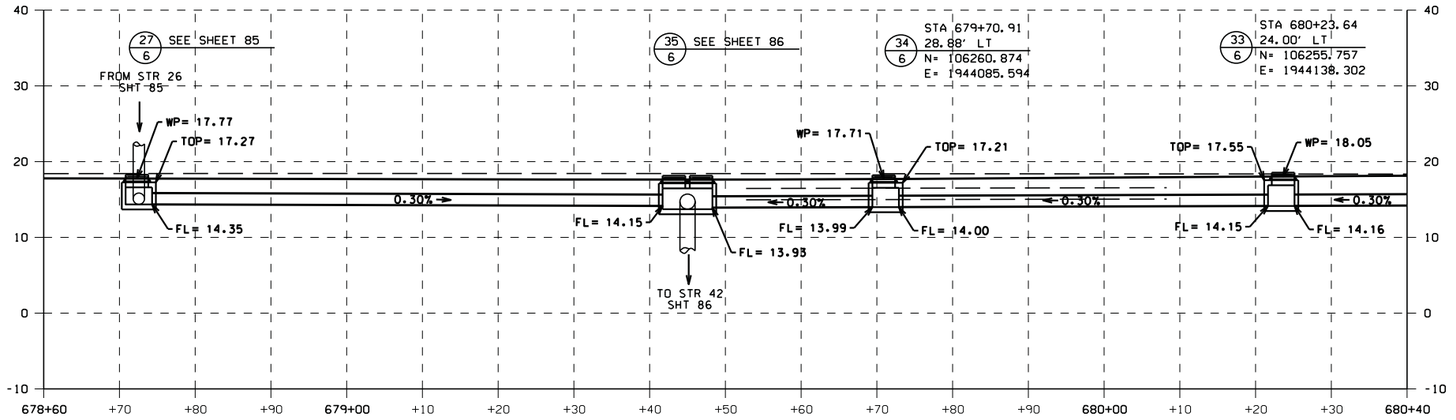


STA 678+60.00 TO 680+40.00 BL CANAL RD, LT SIDE

IN-PL: STA 679+41.32 TO 680+01.60 LT SIDE, 29"S X 18"R RCP & 2 - HDWL (REMOVE)

(27/6) SEE SHEET 85

(27/6) – (35/6) 67.5 LIN FT – 18" STORM SEWER PIPE (CLASS 3 RC)

(35/6) SEE SHEET 86

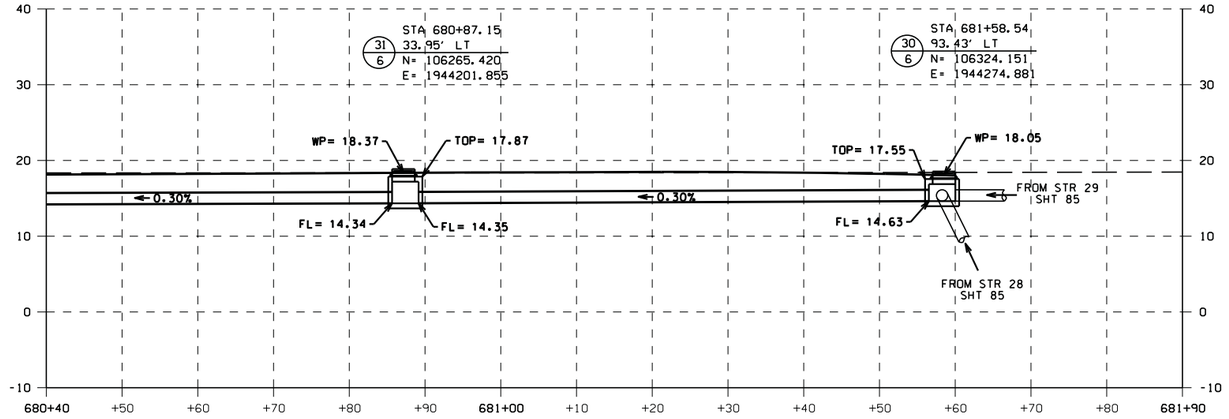
(34/6) – (35/6) 21.5 LIN FT – 18" STORM SEWER PIPE (CLASS 3 RC)

(34/6) 1 EA – INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

(33/6) – (34/6) 49.0 LIN FT – 18" STORM SEWER PIPE (CLASS 3 RC)

(33/6) 1 EA – INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

(31/6) – (33/6) 60.5 LIN FT – 18" STORM SEWER PIPE (CLASS 3 RC)



STA 680+40.00 TO 681+90.00 BL CANAL RD, LT SIDE

IN-PL: STA 676+06.26 TO 676+68.18 LT SIDE, 15"CMP & 2 - HDWL (REMOVE)
STA 677+03.32 TO 677+33.01 LT SIDE, 15"RCP (REMOVE)

(30/6) 1 EA – INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

(30/6) – (31/6) 90.0 LIN FT – 18" STORM SEWER PIPE (CLASS 3 RC)

(31/6) 1 EA – INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

SHEET NO.: 84

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

REVISION NO. : --
JOB NO. : 20-1101-0085
DATE : DEC 2021
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=10'
VERT 1"=10'
PREPARED BY :

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
1731 GULF BLVD, SUITE A
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

REVISION NO. | DESCRIPTION | DATE | BY:

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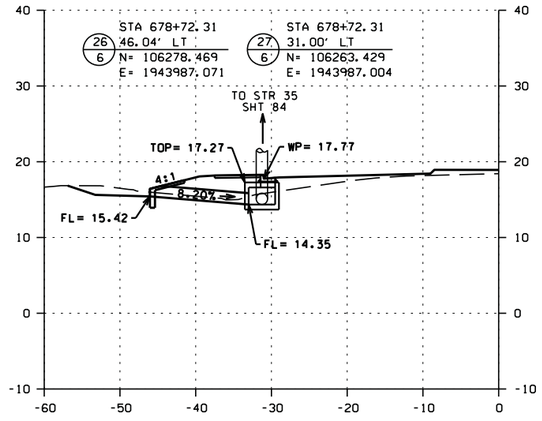
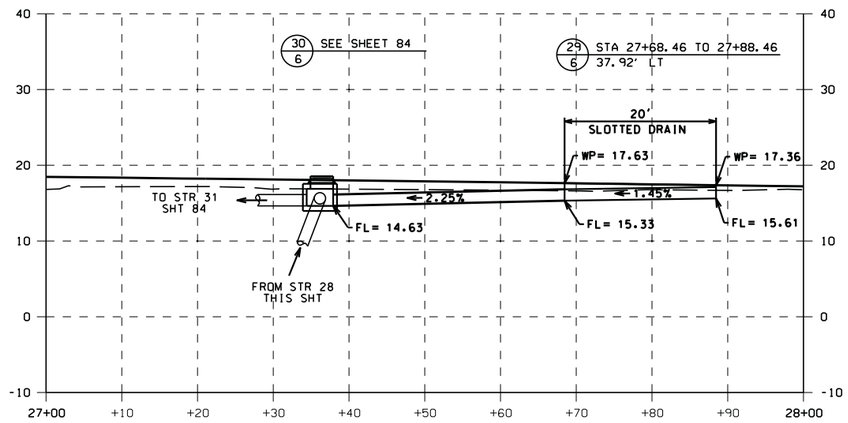


STA 678+72.31 BL CANAL RD, NO SKEW

(26/6) 1 EA - 18" ROADWAY PIPE END TREATMENT, CLASS 1, 4:1 SLOPE, NO SKEW

(26/5) - (27/5) 13.1 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

(27/6) 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

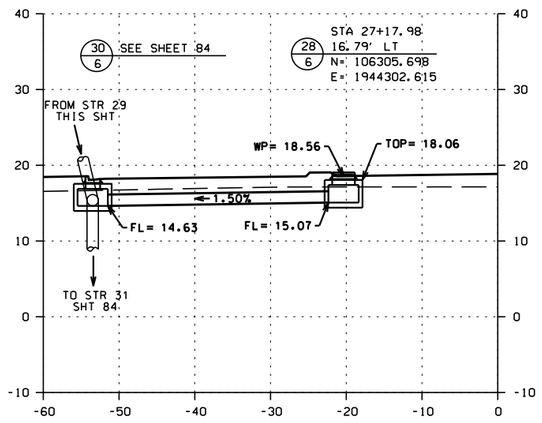


STA 27+00.00 TO 28+00.00 BL NORTH ACCESS, LT SIDE

(29/6) 20 LIN FT - 18" SLOTTED DRAIN PIPE

(29/6) - (30/6) 31.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

(30/6) SEE SHEET 84



STA 27+05.98 BL NORTH ACCESS, SKEW 34°30' LT AH

(28/6) 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

(28/6) - (30/6) 29.5 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

(30/6) SEE SHEET 84

SHEET NO. : 85

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
1731 GULF BLVD, SUITE A
ORANGE BEACH, ALABAMA 36561
(251) 376-6190

CHECKED BY: -- | APPROVED BY: -- | DRAWN BY: --

SCALE: HORIZ 1"=10'
VERT 1"=10'

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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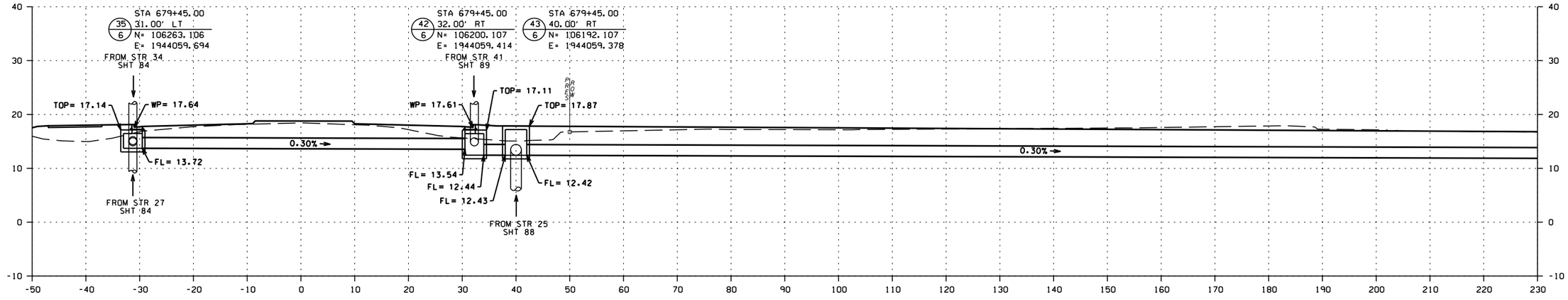


STA 679+45.00 BL CANAL RD, NO SKEW

35/6 1 EA - INLET, CURB AND GUTTER (DOUBLE) & JUNCTION BOX, TYPE 1 OR 1P

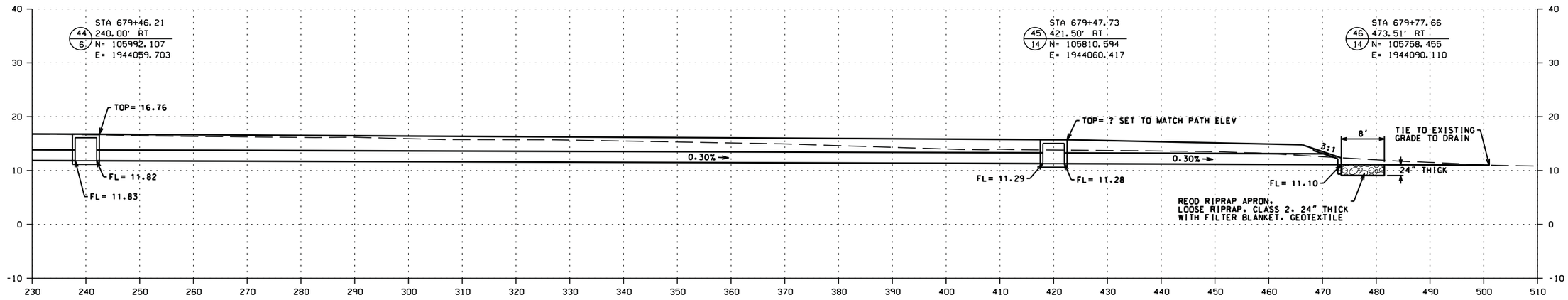
35/6 - 42/6 60.0 LIN FT - 24" STORM SEWER PIPE (CLASS 3 RC)

42/6 1 EA - INLET, CURB AND GUTTER (DOUBLE) & JUNCTION BOX, TYPE 1 OR 1P

42/6 - 43/6 4.0 LIN FT - 24" STORM SEWER PIPE (CLASS 3 RC)

43/6 1 EA - MANHOLE, TYPE L OR M (STORM)

43/6 - 44/6 196.0 LIN FT - 24" STORM SEWER PIPE (CLASS 3 RC)(DOUBLE LINE)(392.0 LIN FT TOTAL)



STA 679+45.00 BL CANAL RD, NO SKEW

44/6 1 EA - MANHOLE, TYPE L OR M (STORM)

44/6 - 45/14 176.0 LIN FT - 24" STORM SEWER PIPE (CLASS 3 RC)(DOUBLE LINE)(352.0 LIN FT TOTAL)

45/14 1 EA - MANHOLE, TYPE L OR M (STORM)

45/14 - 46/14 60.0 LIN FT - 24" STORM SEWER PIPE (CLASS 3 RC)(DOUBLE LINE)(120.0 LIN FT TOTAL)

46/14 1 EA - 24" ROADWAY PIPE END TREATMENT, CLASS 1 (DOUBLE LINE), 3:1 SLOPE, NO SKEW, W/RIPRAP APRON

SHEET NO. : 86

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
2970 MICHAEL BLVD, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

DRAWN BY: -- CHECKED BY: -- APPROVED BY: --

SCALE: HORIZ 1"=10'
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REVISION NO.	DESCRIPTION	DATE	BY:

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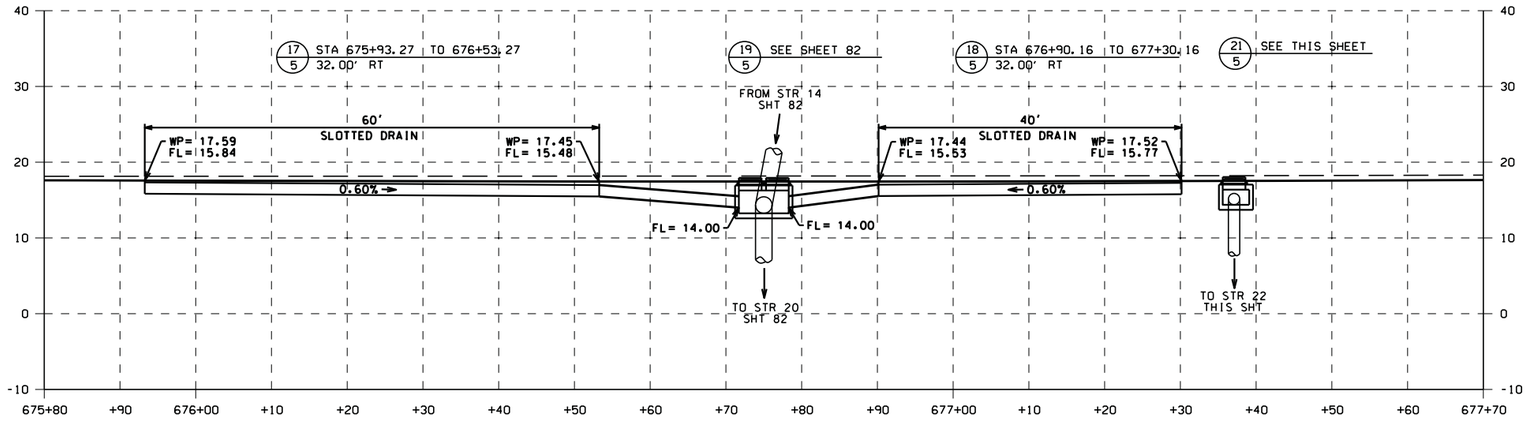


STA 675+80.00 TO 677+70.00 BL CANAL RD, RT SIDE

17/5 60.0 LIN FT - 18" SLOTTED DRAIN PIPE

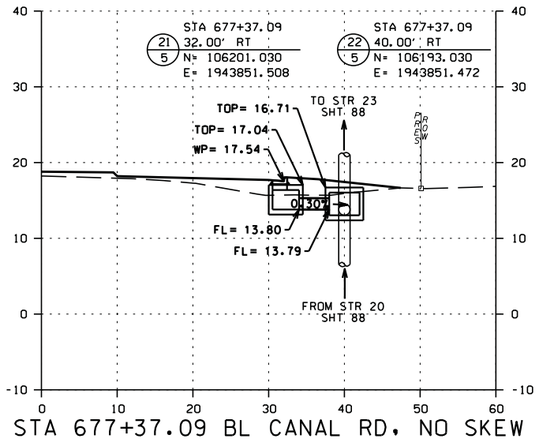
17/5 - 19/5 18.5 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

18/5 40.0 LIN FT - 18" SLOTTED DRAIN PIPE

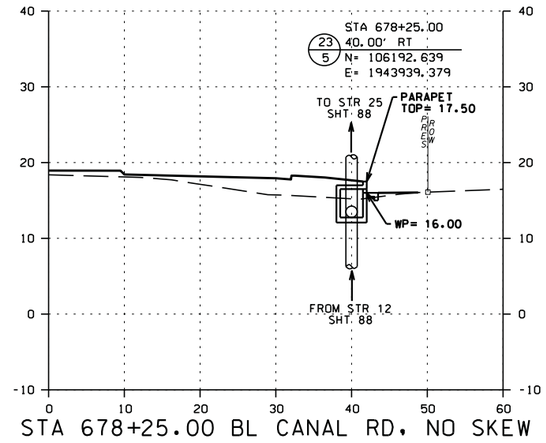
18/5 - 19/5 12.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

19/5 SEE SHEET 82

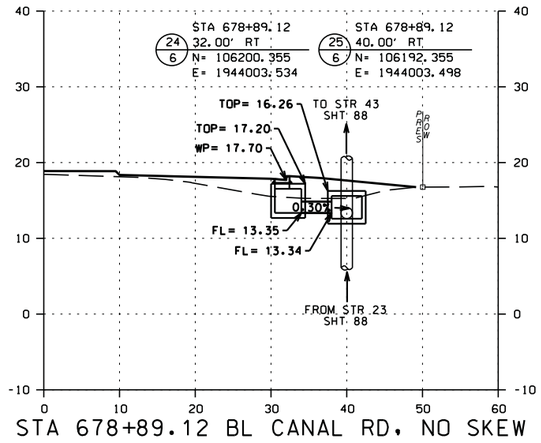
21/5 SEE THIS SHEET



STA 677+37.09 BL CANAL RD, NO SKEW



STA 678+25.00 BL CANAL RD, NO SKEW



STA 678+89.12 BL CANAL RD, NO SKEW

21/5 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

21/5 - 22/5 4.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

22/5 1 EA - JUNCTION BOX, TYPE 1 OR 1P

23/5 1 EA - INLET, OPEN THROAT

24/6 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

24/6 - 25/6 4.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

25/6 1 EA - JUNCTION BOX, TYPE 1 OR 1P

SHEET NO. : 87

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
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ORANGE BEACH, ALABAMA 36561
(251) 378-6990

CHECKED BY: --

APPROVED BY: --

DRAWN BY: --

SCALE: HORIZ 1"=10'
VERT 1"=10'

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REVISION NO.	DESCRIPTION	DATE	BY:
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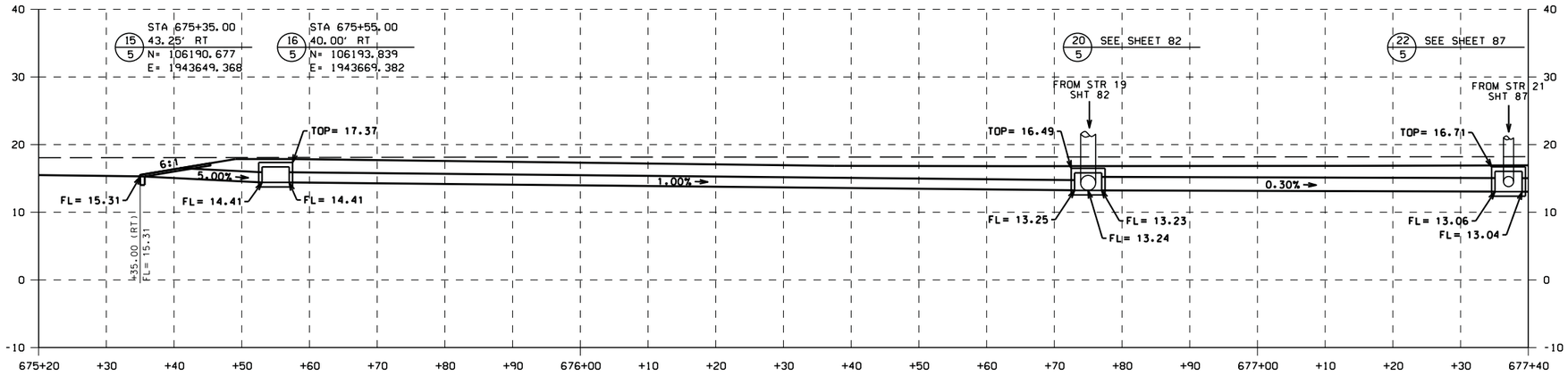


STA 675+20.00 TO 677+40.00 BL CANAL RD, RT SIDE

(15/5) 1 EA - 18" SIDE DRAIN PIPE END TREATMENT, CLASS 1, 6:1 SLOPE, 20° SKEW

(15/5) - (16/5) 18.5 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

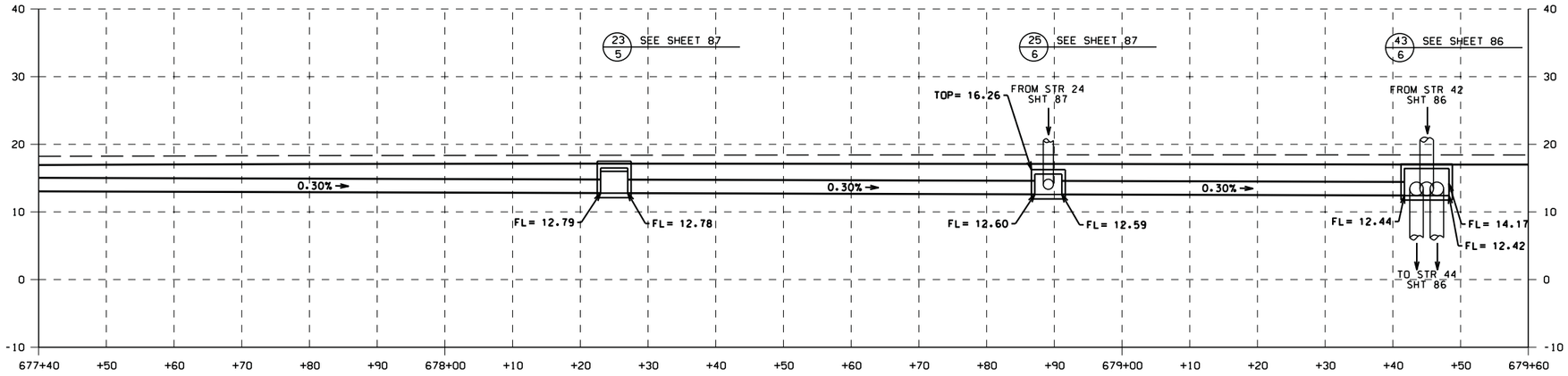
(16/5) 1 EA - JUNCTION BOX, TYPE 1 OR 1P

(16/5) - (20/5) 116.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

(20/5) SEE SHEET 82

(20/5) - (22/5) 58.1 LIN FT - 24" STORM SEWER PIPE (CLASS 3 RC)

(22/5) SEE SHEET 87



STA 677+40.00 TO 679+60.00 BL CANAL RD, RT SIDE

(22/5) - (23/5) 84.0 LIN FT - 24" STORM SEWER PIPE (CLASS 3 RC)

(23/5) SEE SHEET 87

(23/5) - (25/6) 60.1 LIN FT - 24" STORM SEWER PIPE (CLASS 3 RC)

(25/6) SEE SHEET 87

(25/6) - (43/6) 50.6 LIN FT - 24" STORM SEWER PIPE (CLASS 3 RC)

(43/6) SEE SHEET 86

SHEET NO. : 88

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

REVISION NO. : --
JOB NO. : 20-1101-0085
DATE : DEC 2021
APPROVED BY: --
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SCALE: HORIZ 1"=10'
VERT 1"=10'

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
1731 GULF SHORES PKWY, STE 232
GULF SHORES, ALABAMA 36561
(251) 378-6190

ORANGE BEACH ALABAMA

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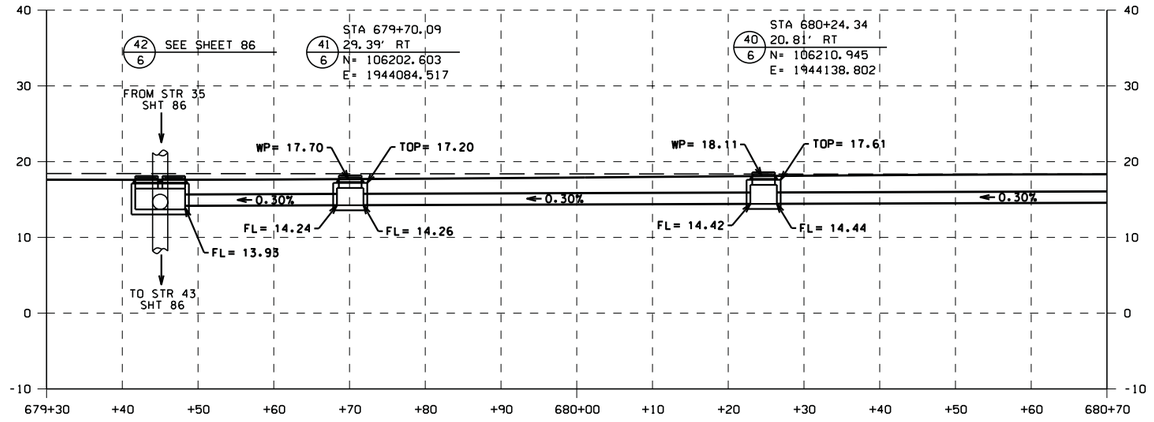
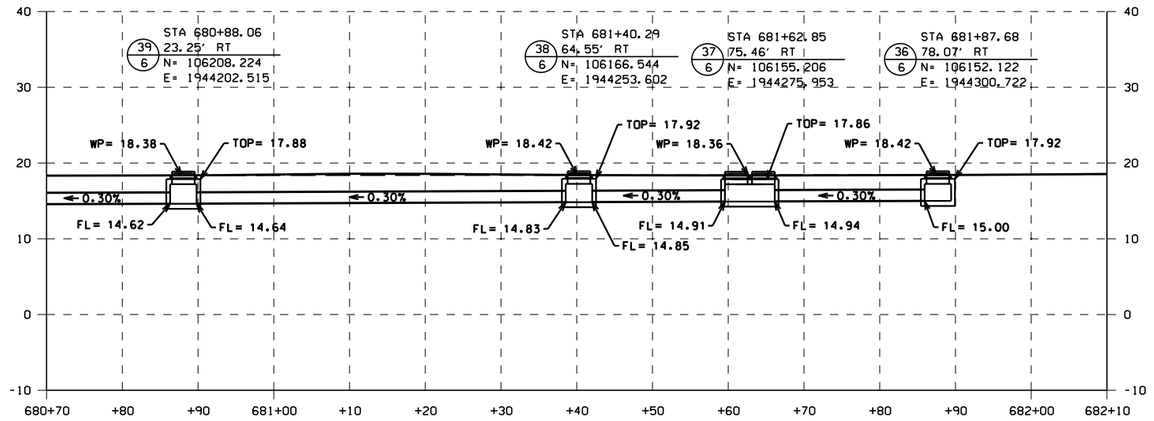


STA 679+30.00 TO 680+70.00 BL CANAL RD, RT SIDE

42/6	SEE SHEET 86
41/6 – 42/6	20.0 LIN FT – 18" STORM SEWER PIPE (CLASS 3 RC)
41/6	1 EA – INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P
40/6 – 41/6	51.0 LIN FT – 18" STORM SEWER PIPE (CLASS 3 RC)
40/6	1 EA – INLET, GUTTER & JUNCTION BOX, TYPE 1 OR 1P
39/6 – 40/6	60.2 LIN FT – 18" STORM SEWER PIPE (CLASS 3 RC)



STA 680+70.00 TO 682+10.00 BL CANAL RD, RT SIDE

39/6	1 EA – INLET, GUTTER & JUNCTION BOX, TYPE 1 OR 1P
38/6 – 39/6	62.1 LIN FT – 18" STORM SEWER PIPE (CLASS 3 RC)
38/6	1 EA – INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P
37/6 – 38/6	19.6 LIN FT – 18" STORM SEWER PIPE (CLASS 3 RC)
37/6	1 EA – INLET, CURB AND GUTTER (DOUBLE) & JUNCTION BOX, TYPE 1 OR 1P
36/6 – 37/6	19.6 LIN FT – 18" STORM SEWER PIPE (CLASS 3 RC)
36/6	1 EA – INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

SHEET NO. : 89

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING
THOMPSON ENGINEERING, INC.
2731 GULF SHORES PKWY, STE 202
GULF SHORES, ALABAMA 36542
(251) 378-6990

CHECKED BY: --
APPROVED BY: --
DRAWN BY: --

SCALE: HORIZ 1"=10'
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ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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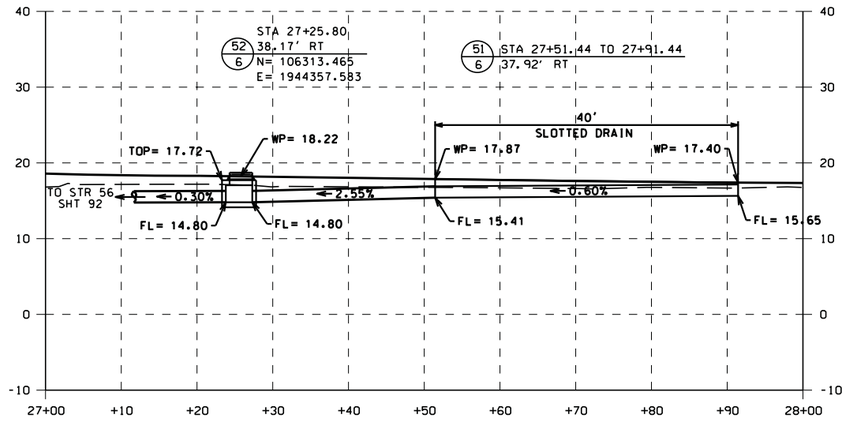


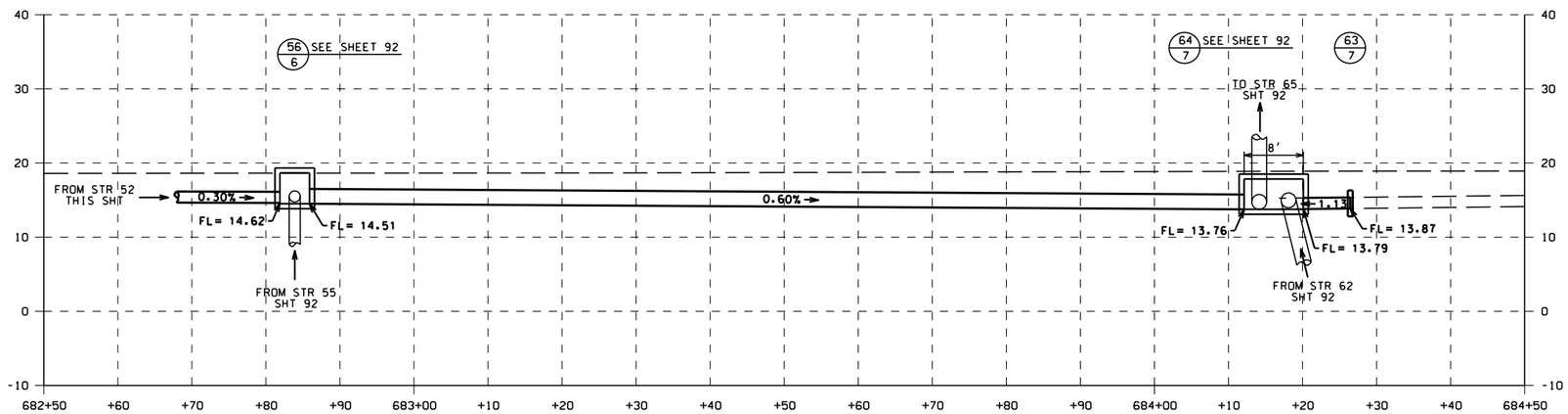
STA 27+00.00 TO 28+00.00 BL NORTH ACCESS, RT SIDE

51/6 40 LIN FT - 18" SLOTTED DRAIN PIPE

51/6 - 52/6 24.2 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

52/6 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

52/6 - 56/6 64.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)



STA 682+50.00 TO 684+50.00 BL CANAL RD, LT SIDE

56/6 SEE SHEET 92

56/6 - 64/7 126.2 LIN FT - 24" STORM SEWER PIPE (CLASS 3 RC)

64/7 SEE SHEET 92

63/7 - 64/7 6.3 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

63/7 1 EA - CONCRETE COLLAR

SHEET NO. : 90

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
1331 GULF BEACH FWY, SUITE 2-202
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

CHECKED BY: -- APPROVED BY: --

DRAWN BY: --

SCALE: HORIZ 1"=10'
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ORANGE BEACH ALABAMA

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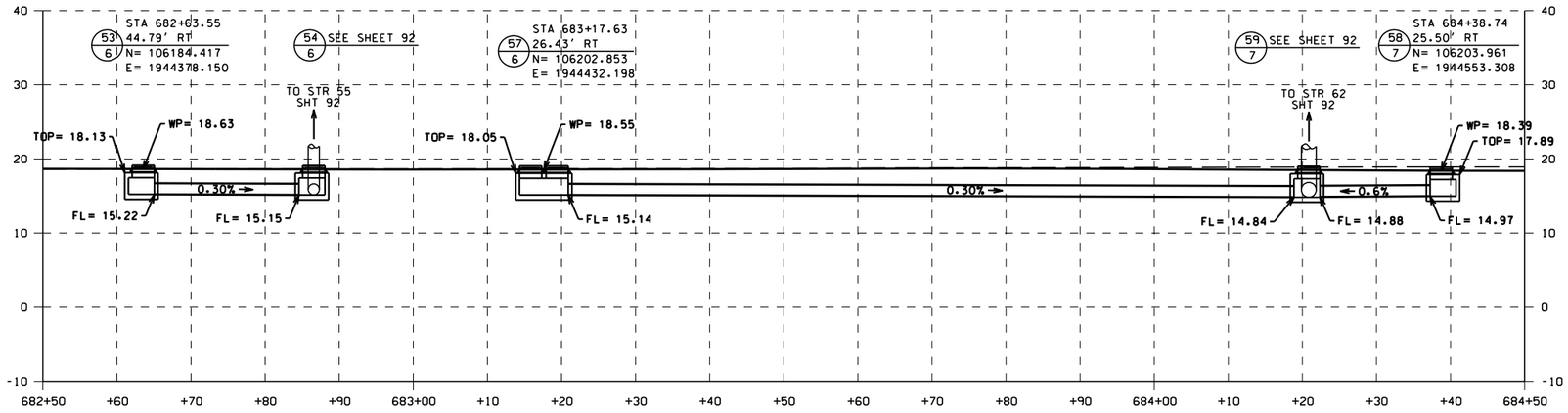


STA 682+50.00 TO 684+50.00 BL CANAL RD, RT SIDE

53/6 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

53/6 - 54/6 21.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

54/6 SEE SHEET 92

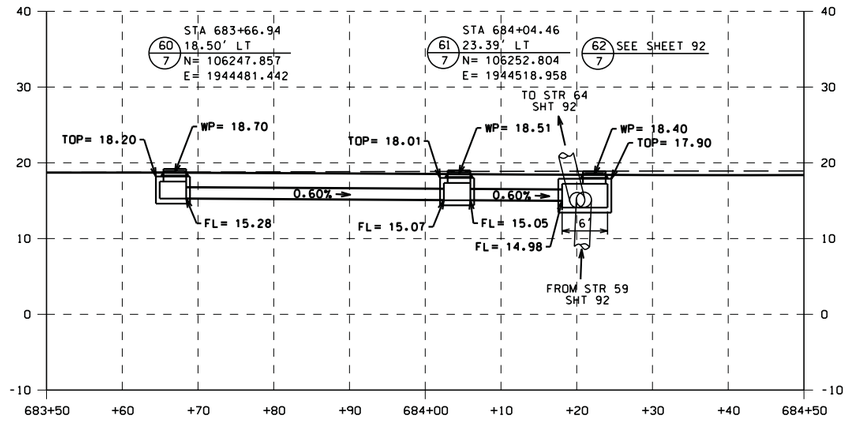
57/6 1 EA - INLET, CURB AND GUTTER (DOUBLE) & JUNCTION BOX, TYPE 1 OR 1P

57/6 - 59/6 98.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

59/7 SEE SHEET 92

58/7 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

58/7 - 59/7 15.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)



STA 683+50.00 TO 684+50.00 BL CANAL RD, LT SIDE

60/7 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

60/7 - 61/7 34.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

61/7 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

61/7 - 62/7 12.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

62/7 SEE SHEET 92

SHEET NO. : 91

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
4734 MAIN STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

APPROVED BY: --

CHECKED BY: --

DRAWN BY: --

SCALE: HORIZ 1"=10'
VERT 1"=10'

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REVISION NO.	DESCRIPTION	BY:	DATE
REVISION NO.	DESCRIPTION	BY:	DATE
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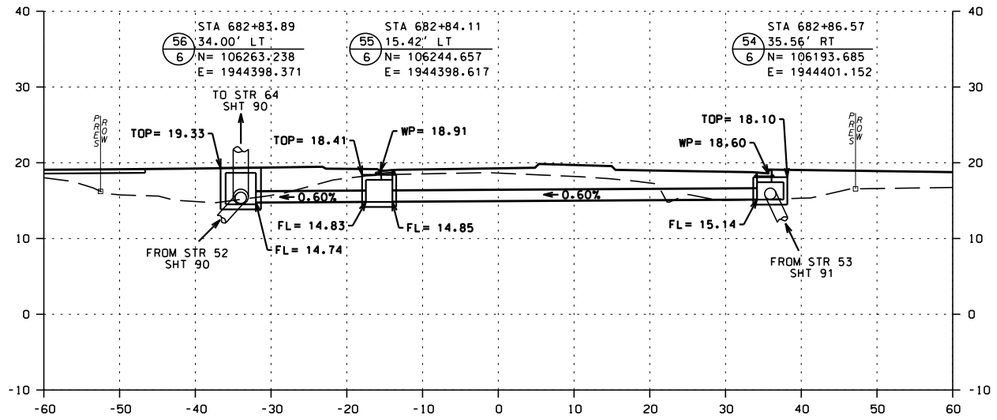


STA 682+84.63 BL CANAL RD, SKEW 3° LT BK

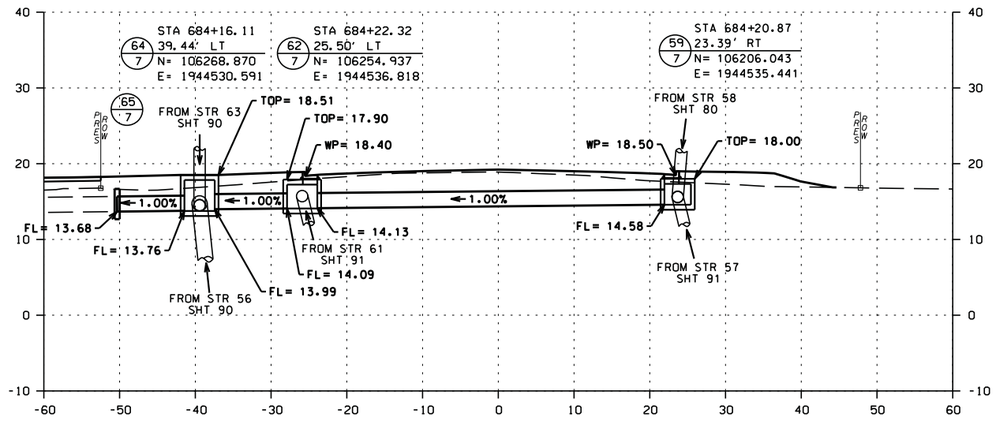
54/6 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

54/6 - 55/6 48.2 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

55/6 1 EA - INLET, GUTTER & JUNCTION BOX, TYPE 1 OR 1P

55/6 - 56/6 14.3 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

56/6 1 EA - MANHOLE, TYPE L OR M (STORM)



STA 684+20.94 BL CANAL RD, NO SKEW

59/7 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

59/7 - 62/7 45.8 LIN FT - 24" STORM SEWER PIPE (CLASS 3 RC)

62/7 1 EA - INLET, CURB AND GUTTER & JUNCTION BOX, TYPE 1 OR 1P

62/7 - 64/7 9.6 LIN FT - 24" STORM SEWER PIPE (CLASS 3 RC)

64/7 1 EA - MANHOLE, TYPE L OR M (STORM)

64/7 - 65/7 8.9 LIN FT - 24" STORM SEWER PIPE (CLASS 3 RC)

65/7 1 EA - CONCRETE COLLAR

SHEET NO. : 92

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

CHECKED BY: -- | APPROVED BY: --

THOMPSON ENGINEERING, INC.
1731 GULF SHORES PKWY, SUITE 2
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DRAWN BY: --

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VERT 1"=10'

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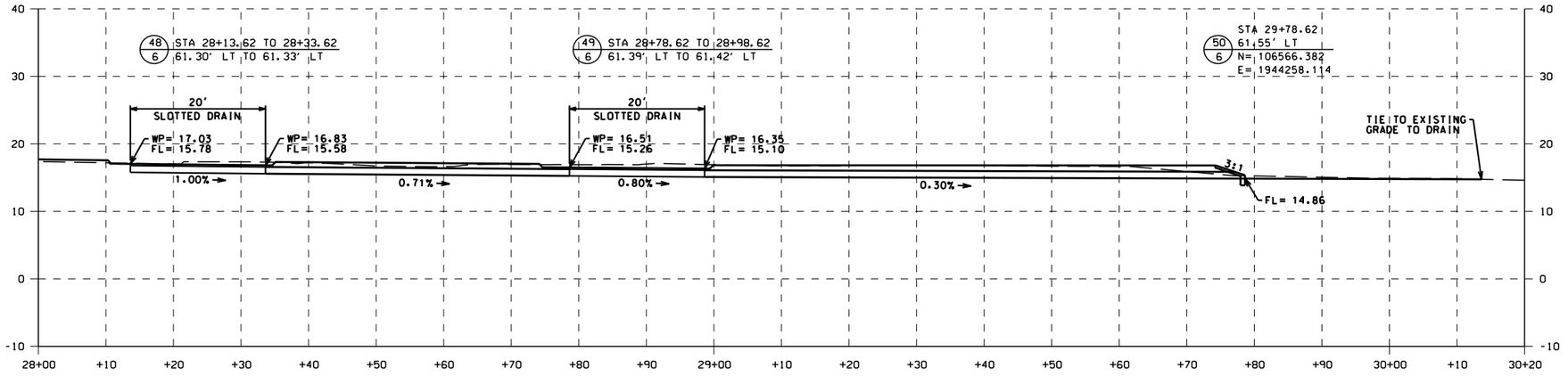


STA 28+00.00 TO 30+20.00 BL NORTH ACCESS, LT SIDE

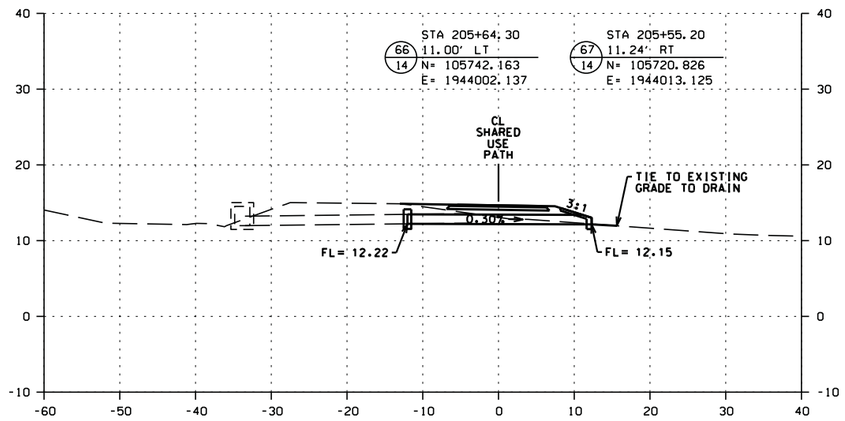
48/6 20.0 LIN FT - 12" SLOTTED DRAIN PIPE

48/6 - 49/6 45.0 LIN FT - 12" STORM SEWER PIPE

49/6 20.0 LIN FT - 12" SLOTTED DRAIN PIPE

49/6 - 50/6 80.0 LIN FT - 12" STORM SEWER PIPE

50/6 1 EA - 12" ROADWAY PIPE END TREATMENT, CLASS 1, 3:1 SLOPE, NO SKEW



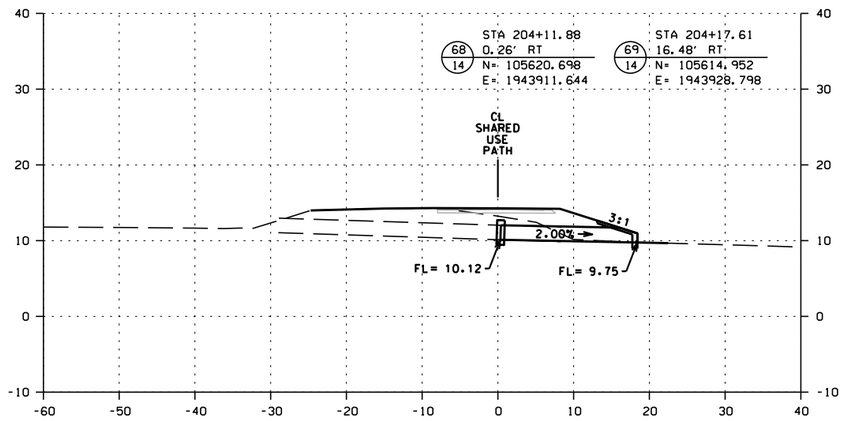
STA 205+59.07, BL TRAIL CONNECTION, SKEW 21° RT BK

IN-PL: STA 205+59.07,15" RCP (PARTIALLY REM RT SIDE)
STA 205+74.73, LT SIDE, DROP INLET (RET)

66/14 1 EA - CONCRETE COLLAR

66/14 - 67/14 24.0 LIN FT - 15" STORM SEWER PIPE (CLASS 3 RC)

67/14 1 EA - 15" ROADWAY PIPE END TREATMENT, CLASS 1, 3:1 SLOPE, 21° SKEW



STA 204+11.68, BL TRAIL CONNECTION, SKEW 40° RT AH

IN-PL: STA 204+11.68,36"S X 23"R RCP (PARTIALLY REM RT SIDE)

68/14 1 EA - CONCRETE COLLAR

68/14 - 69/14 18.0 LIN FT - 36"S X 23"R ROADWAY PIPE (CLASS 3 RC)(EXTENSION)

69/14 1 EA - 36"S X 23"R ROADWAY PIPE END TREATMENT, CLASS 1, 3:1 SLOPE, NO SKEW

SHEET NO.: 93

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

JOB NO.: 20-1101-0085
DATE: DEC 2021
REVISION NO.: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY:
THOMPSON ENGINEERING, INC.
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(251) 378-6990

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APPROVED BY: --
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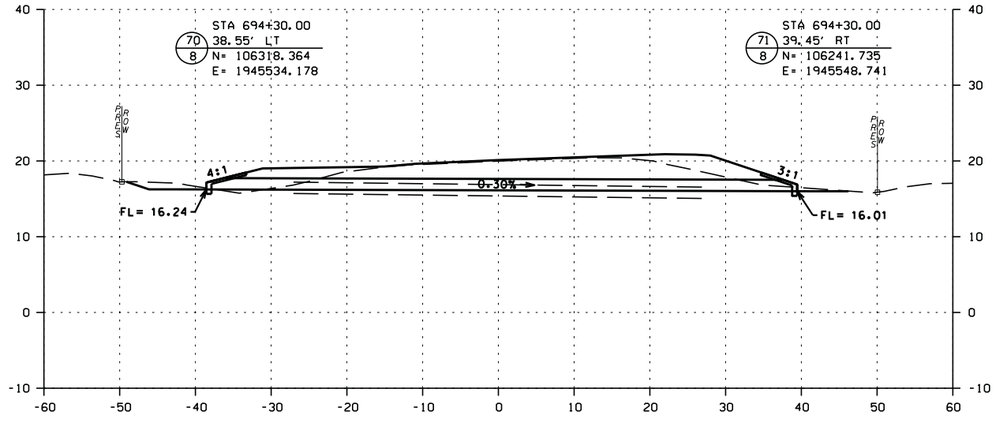


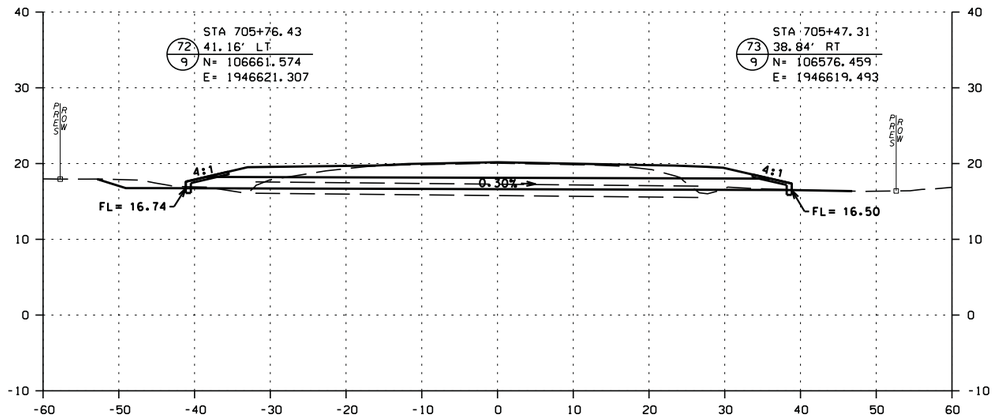
STA 694+30.00, BL CANAL RD, NO SKEW

IN-PL: STA 693+88.58, 18" RCP & 12" PVC, NO SKEW (REMOVE)

70/8 1 EA - 18" ROADWAY PIPE END TREATMENT, CLASS 1, 4:1 SLOPE, NO SKEW

70/8 – 71/8 78.0 LIN FT - 18" ROADWAY PIPE (CLASS 3 RC)

71/8 1 EA - 18" ROADWAY PIPE END TREATMENT, CLASS 1, 3:1 SLOPE, NO SKEW



STA 705+61.45 BL CANAL RD, SKEW 20° RT BK

IN-PL: STA 705+61.45, 18" RCP, 18° SKEW RT BK (REMOVE)

72/9 1 EA - 18" ROADWAY PIPE END TREATMENT, CLASS 1, 4:1 SLOPE, 20° SKEW

72/9 – 73/9 80.0 LIN FT - 18" ROADWAY PIPE (CLASS 3 RC)

73/9 1 EA - 18" ROADWAY PIPE END TREATMENT, CLASS 1, 4:1 SLOPE, 20° SKEW

SHEET NO.: 94

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

JOB NO.: 20-1101-0085
DATE: DEC 2021
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CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY:
thompson ENGINEERING

THOMPSON ENGINEERING, INC.
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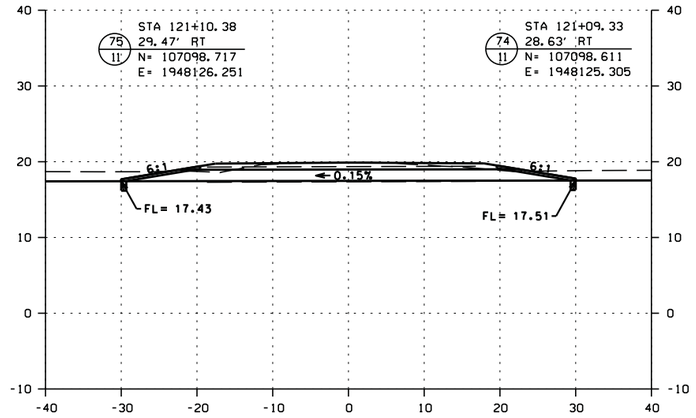


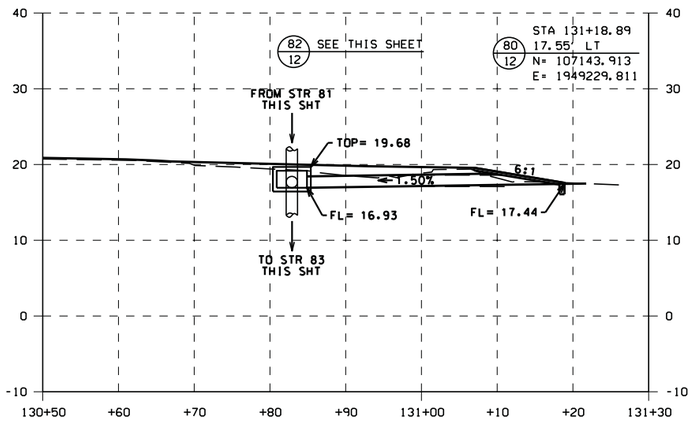
STA 120+95.56 BL MAPLE ST. SKEW 11° LT BK

IN-PL: STA 120+93.44,24" RCP, 7° SKEW LT BK (REMOVE)

74/11 — 1 EA - 18" SIDE DRAIN PIPE END TREATMENT, CLASS 1, 6:1 SLOPE, NO SKEW

74/11 – 75/11 — 60.0 LIN FT - 18" ROADWAY PIPE (CLASS 3 RC)

75/11 — 1 EA - 18" SIDE DRAIN PIPE END TREATMENT, CLASS 1, 6:1 SLOPE, NO SKEW



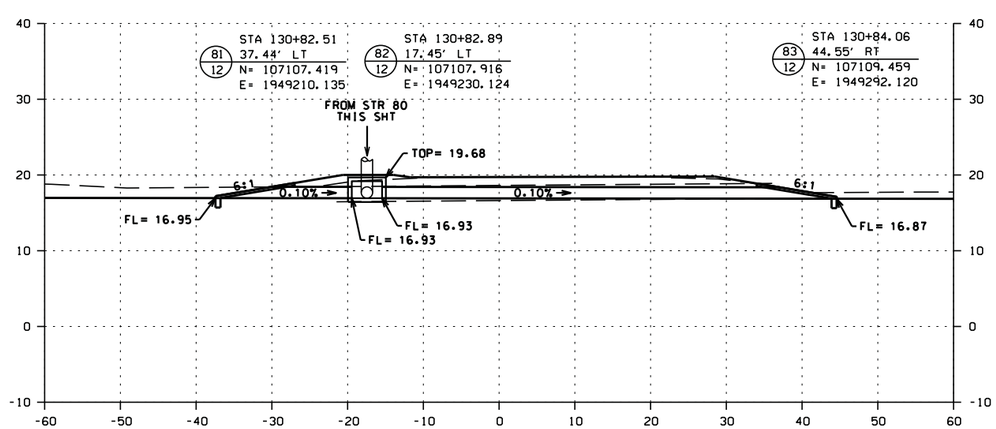
STA 130+50.00 TO STA 131+30.00 BL WALKER LN, LT SIDE

IN-PL: STA 130+88.04,24" RCP, NO SKEW (REMOVE)

80/12 — 1 EA - 18" SIDE DRAIN PIPE END TREATMENT, CLASS 1, 6:1 SLOPE, NO SKEW

80/12 – 82/12 — 34.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

82/12 — SEE THIS SHEET



STA 130+83.22 BL WALKER LN, NO SKEW

IN-PL: STA 130+88.04,24" RCP, NO SKEW (REMOVE)

81/12 — 1 EA - 18" SIDE DRAIN PIPE END TREATMENT, CLASS 1, 6:1 SLOPE, NO SKEW

81/12 – 82/12 — 18.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

82/12 — 1 EA - JUNCTION BOX, TYPE 1 OR 1P

82/12 – 83/12 — 60.0 LIN FT - 18" STORM SEWER PIPE (CLASS 3 RC)

83/12 — 1 EA - 18" SIDE DRAIN PIPE END TREATMENT, CLASS 1, 6:1 SLOPE, NO SKEW

SHEET NO.: 95

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

DRAINAGE SECTIONS

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY: thompson ENGINEERING

THOMPSON ENGINEERING, INC.
1731 MAIN STREET, SUITE 2132
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

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DATE: DEC 2021
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SEQUENCE OF CONSTRUCTION

NOTE: ANY WORK CAN BE PERFORMED CONCURRENTLY WITH APPROVAL OF THE ENGINEER, AS LONG AS IT DOES NOT CONFLICT WITH ANOTHER SEQUENCED ITEM OF WORK.

SEQUENCE OF CONSTRUCTION

PHASE I

- INSTALL ADVANCE WARNING SIGNS AND APPLICABLE TRAFFIC CONTROL DEVICES.

PHASE II

- INSTALL AND MAINTAIN TEMPORARY TRAFFIC CONTROL MEASURES AND EROSION CONTROL BMPS.
- UTILIZING FLAGGERS AND TEMOPORARY LANE CLOSURES, PERFORM THE REQUIRED PROFILE GRADE CORRECTIONS ON CANAL RD BETWEEN STA 670+00.00 AND STA 686+00.00 UTILIZING PLANING AND LEVELING.
- PLACE FILL, TOPSOIL AND TEMPORARY SEEDING AND MULCHING ALONG SHOULDERS IN AREAS OF LEVELING TO REMOVE DROP-OFFS CREATED BY THE PROFILE GRADE CORRECTIONS.
- INSTALL TEMPORARY TRAFFIC STRIPE, TEMPORARY TAFFIC CONTROL MARKINGS AND TEMPORARY RAISED PAVEMENT MARKERS TO MATCH EXISTING CONDITIONS.

PHASE III-A

- INSTALL AND MAINTAIN TEMPORARY TRAFFIC CONTROL MEASURES AND EROSION CONTROL BMPS.
- REMOVE EXISTING AND TEMPORARY TRAFFIC STRIPE BETWEEN STA 670+38.50 AND STA 691+00.00 AND INSTALL TEMPORARY TRAFFIC STRIPE AND TEMPORARY RAISED PAVEMENT MARKERS TO SHIFT TRAFFIC THROUGH THE WORK ZONE. KEEP EXISTING PEDESTRIAN CROSSWALK ON CANAL RD AT CALLAWAY DR OPEN TO ALLOW FOR PEDESTRIAN AND BICYCLE TRAFFIC DURING CONSTRUCTION. WITH TEMPORARY CLOSURES ALLOWED AS APPROVED BY THE ENGINEER OR CITY.
- INSTALL THE STORM SEWER DRAINAGE SYSTEM FROM CANAL RD TO THE SOUTH OUTFALL AT STA 679+45.00 AND REQUIRED RIPRAP APRON AT THE OUTFALL.
- INSTALL THE REQUIRED CROSS DRAINS ON CANAL RD AT STA 671+75.00, STA 676+77.35, STA 679+45.00, STA 682+84.63, STA 684+20.94 AND INSTALL THE ATTACHED STORM SEWER DRAINAGE SYSTEMS NEEDED TO MAINTAIN ADEQUATE DRAINAGE THROUGH OUTFALLS DURING CONSTRUCTION. REMOVE IN-PLACE CROSS DRAINS ON CANAL RD AT STA 671+73.75 AND STA 683+06.00. PERFORM REQUIRED PATCHING OF ROAD AT TRENCH CUTS NEEDED TO INSTALL NEW CROSS DRAINS AND REMOVE EXISTING CROSS DRAINS.
- PERFORM THE REQUIRED GRADING, DRAINAGE, BASE AND PAVING OPERATIONS THROUGH THE UPPER BINDER LAYER FOR EB CANAL RD WIDENING, SIDE ROADS AND DRIVEWAYS ON THE SOUTH SIDE BETWEEN SR-161 AND STA 688+50.00. INSTALL THE REQUIRED SIDEWALK AROUND THE SOUTH PORTION OF THE ROUNDABOUT.
- PERFORM THE REQUIRED SEWER MANHOLE MODIFICATIONS.
- PERFORM THE REQUIRED GRADING, DRAINAGE, BASE AND PAVING OPERATIONS FOR THE REQUIRED TRAIL CONNECTION BETWEEN CALLAWAY DR AND CANAL RD AND CONNECT TO THE REQUIRED SIDEWALK AROUND THE SOUTH PORTION OF THE ROUNDABOUT.

PHASE III-B

- INSTALL AND MAINTAIN TEMPORARY TRAFFIC CONTROL MEASURES AND EROSION CONTROL BMPS.
- REMOVE EXISTING AND TEMPORARY TRAFFIC STRIPE BETWEEN STA 670+38.50 AND STA 691+00.00 AND INSTALL TEMPORARY TRAFFIC STRIPE AND TEMPORARY RAISED PAVEMENT MARKERS TO SHIFT TRAFFIC THROUGH THE WORK ZONE.
- INSTALL TEMPORARY CROSSWALK NEAR STA 682+95.00 TO SHIFT PEDESTRIAN AND BICYCLE TRAFFIC TO THE NEW TRAIL CONNECTION BETWEEN CALLAWAY DR AND CANAL RD.
- CLOSE THE EXISTING CROSSWALK ON CANAL RD AT CALLAWAY DR, THE EXISTING SIDEWALK ON THE NORTH SIDE OF CANAL RD BETWEEN CALLAWAY DR AND STA 682+95.00, AND THE EXISTING SIDEWALK ON CALLAWAY DRIVE TO PEDESTRIAN AND BICYCLE TRAFFIC.
- PERFORM THE REQUIRED GRADING, DRAINAGE, BASE AND PAVING OPERATIONS THROUGH THE UPPER BINDER LAYER FOR WB CANAL RD WIDENING, SIDE ROADS AND DRIVEWAYS ON THE NORTH SIDE BETWEEN SR-161 AND STA 688+50.00.
- PERFORM THE REQUIRED GRADING, DRAINAGE, BASE AND PAVING OPERATIONS FOR THE NORTH ACCESS AND PARKING LOT IMPROVEMENTS AT THE LIBRARY AND SENIOR CENTER. KEEP THE EXISTING DRIVEWAY ON CANAL RD TO THE LIBRARY AND SENIOR CENTER OPEN UNTIL THE NORTH ACCESS DRIVE AND PARKING LOT IMPROVEMENTS ARE COMPLETE.
- OPEN NORTH ACCESS TO TRAFFIC AND PERMANENTLY CLOSE AND REMOVE THE EXISTING DRIVEWAY NEAR STA 679+80.00 ON THE NORTH SIDE TO TRAFFIC.
- REMOVE THE REMAINING PORTIONS OF EXISTING SIDEWALK AND REPLACE WITH THE REQUIRED SIDEWALK AND TRAIL CONNECTIONS BETWEEN SR-161 AND STA 687+00.00, WITH TEMPORARY CLOSURES ALLOWED AS APPROVED BY THE ENGINEER OR CITY. OPEN NEW SIDEWALK AND TRAIL CONNECTIONS TO PEDESTRIAN AND BICYCLE TRAFFIC. RE-OPEN CROSSWALK ON CANAL RD AT CALLAWAY DR.

PHASE IV

- INSTALL AND MAINTAIN TEMPORARY TRAFFIC CONTROL MEASURES AND EROSION CONTROL BMPS.
- REMOVE EXISTING AND TEMPORARY TRAFFIC STRIPE BETWEEN STA 670+38.50 AND STA 691+00.00 AND INSTALL TEMPORARY TRAFFIC STRIPE AND TEMPORARY RAISED PAVEMENT MARKERS TO SHIFT TRAFFIC THROUGH THE WORK ZONE. KEEP PEDESTRIAN CROSSWALKS ON CANAL RD AT CALLAWAY DR AND STA 682+95.00 OPEN TO ALLOW FOR PEDESTRIAN AND BICYCLE TRAFFIC DURING CONSTRUCTION. WITH TEMPORARY CLOSURES ALLOWED AS APPROVED BY THE ENGINEER OR CITY.
- SAWCUT AND REMOVE THE EXISTING PAVEMENT AND INSTALL REQUIRED RAISED MEDIANS AND ROUNDABOUT CENTRAL ISLAND.
- PERFORM ANY REMAINING REQUIRED PLANING AND PLACE THE WEARING SURFACE ON CANAL RD, SIDE STREETS AND DRIVEWAYS BETWEEN SR-161 AND STA 686+00.00.
- INSTALL THE TEMPORARY TRAFFIC STRIPE AND MARKINGS TO MATCH THE FINAL STRIPE LAYOUT AS SHOWN ON THE SIGNING AND STRIPING SHEETS BEWTWEEN SR-161 AND STA 686+00.00. OPEN ALL NEW CROSSWALKS ON CANAL RD TO PEDESTRIAN AND BICYCLE TRAFFIC.
- INSTALL THE REQUIRED SIGNS ON CANAL RD AS SHOWN IN THE SIGNING AND STRIPING SHEETS BETWEEN SR-161 AND STA 686+00.00.

SEQUENCE OF CONSTRUCTION (CONTINUED)

PHASE V-A

- INSTALL ADVANCE WARNING SIGNS AND APPLICABLE TRAFFIC CONTROL DEVICES.
- REMOVE EXISTING AND TEMPORARY TRAFFIC STRIPE BETWEEN STA 686+00.00 AND STA 735+50.00 AND INSTALL TEMPORARY TRAFFIC STRIPE AND TEMPORARY RAISED PAVEMENT MARKERS TO SHIFT TRAFFIC THROUGH THE WORK ZONE.
- INSTALL THE REQUIRED CROSS DRAINS ON CANAL RD AT STA 694+30.00 AND STA 705+61.45 AND MAINTAIN ADEQUATE DRAINAGE THROUGH OUTFALLS DURING CONSTRUCTION. REMOVE IN-PLACE CROSS DRAINS ON CANAL RD AT STA 693+88.58 AND STA 705+61.45. PERFORM REQUIRED PATCHING OF ROAD AT TRENCH CUTS NEEDED TO INSTALL NEW CROSS DRAINS AND REMOVE EXISTING CROSS DRAINS.
- PERFORM THE REQUIRED GRADING, DRAINAGE, BASE AND PAVING OPERATIONS THROUGH THE UPPER BINDER LAYER FOR EB CANAL RD WIDENING, SIDE ROADS AND DRIVEWAYS ON THE SOUTH SIDE BETWEEN STA 688+50.00 AND WILSON BLVD.

PHASE V-B

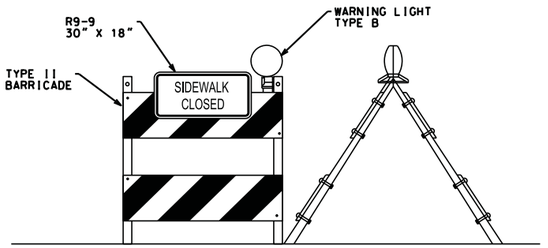
- INSTALL ADVANCE WARNING SIGNS AND APPLICABLE TRAFFIC CONTROL DEVICES.
- REMOVE EXISTING AND TEMPORARY TRAFFIC STRIPE BETWEEN STA 686+00.00 AND STA 735+50.00 AND INSTALL TEMPORARY TRAFFIC STRIPE AND TEMPORARY RAISED PAVEMENT MARKERS TO SHIFT TRAFFIC THROUGH THE WORK ZONE, KEEP EXISTING PEDESTRIAN CROSSWALK ON CANAL RD AT CALLAWAY DR OPEN TO ALLOW FOR PEDESTRIAN AND BICYCLE TRAFFIC DURING CONSTRUCTION, WITH TEMPORARY CLOSURES ALLOWED AS APPROVED BY THE ENGINEER OR CITY.
- SAWCUT AND REMOVE PORTIONS OF EXISTING ASPHALT PAVED SHOULDERS ON THE NORTH SIDE OF CANAL RD BETWEEN STA 691+26.07 AND STA 727+06.87 TO MATCH THE FINAL EDGE OF PAVEMENT AS SHOWN ON THE PLAN SHEETS.
- CLOSE THE EXISTING SIDEWALK ON THE NORTH SIDE OF CANAL RD BETWEEN STA 687+50.00 AND WILSON BLVD TO PEDESTRIAN AND BICYCLE TRAFFIC.
- PERFORM THE REQUIRED GRADING, DRAINAGE, BASE AND PAVING OPERATIONS THROUGH THE UPPER BINDER LAYER FOR SHOULDERS, SIDE ROADS AND DRIVEWAYS ON THE NORTH SIDE BETWEEN STA 688+50.00 AND WILSON BLVD.
- REMOVE THE REMAINING PORTIONS OF EXISTING SIDEWALK AND REPLACE WITH THE REQUIRED TRAIL BETWEEN 687+00.00 AND WILSON BLVD.
- INSTALL TEMPORARY TRAFFIC STRIPE AND MARKINGS TO MATCH FINAL STRIPE LAYOUT AS SHOWN ON THE SIGNING AND STRIPING SHEETS FOR THE NEW TRAIL AND CROSSWALKS ON THE NORTH SIDE OF CANAL RD. OPEN NEW TRAIL AND CROSSWALKS TO PEDESTRIAN AND BICYCLE TRAFFIC, WITH TEMPORARY CLOSURES ALLOWED AS APPROVED BY THE ENGINEER OR CITY.

PHASE VI

- PERFORM ANY REMAINING REQUIRED PLANING AND PLACE THE WEARING SURFACE ON CANAL RD, SIDE STREETS AND DRIVEWAYS BETWEEN STA 686+00.00 AND STA 737+50.00.
- INSTALL THE TEMPORARY TRAFFIC STRIPE AND MARKINGS TO MATCH THE FINAL STRIPE LAYOUT AS SHOWN ON THE SIGNING AND STRIPING SHEETS BEWTWEEN STA 686+00.00 AND STA 737+50.00.
- INSTALL THE REQUIRED SIGNS ON CANAL RD AS SHOWN IN THE SIGNING AND STRIPING SHEETS BETWEEN STA 686+00.00 AND WILSON BLVD.

PHASE VII

- INSTALL THE REQUIRED PERMANENT STRIPING, MARKINGS, LEGENDS, AND RAISED PAVEMENT MARKERS AS SHOWN ON THE SIGNING AND STRIPING SHEETS.
- COMPLETE ALL REMAINING ITEMS OF WORK.
- REMOVE ANY REMAINING TRAFFIC CONTROL SIGNS AND DEVICES AND OPEN ALL LANES TO TRAFFIC.



DETAIL OF TYPE II BARRICADE WITH R9-9 SIDEWALK CLOSED SIGN

NTS

NOTE:
SEE ALDOT SPECIAL DRAWING NO. B-107-2 FOR TYPE II BARRICADE DETAILS AND ADDITIONAL GENERAL NOTES.

TCP NOTES
700-705
707
709-713
715-716
720
723
725-729
732-737
742
744
747
749
751-752

SHEET NO. : 100

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TRAFFIC CONTROL PLAN
SEQUENCE OF CONSTRUCTION

REVISION NO. : --
JOB NO. : 20-1101-0085
DATE : DEC 2021
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: :

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
251 MAPLE STREET, SUITE 5
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

thompson ENGINEERING

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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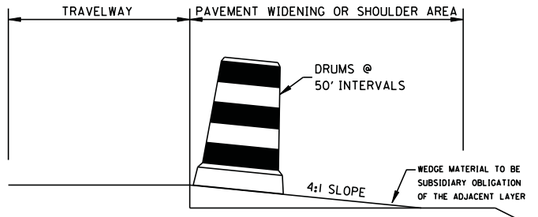
2021.12.31 14:21:26

TEMPORARY TRAFFIC CONTROL PLAN SHEET

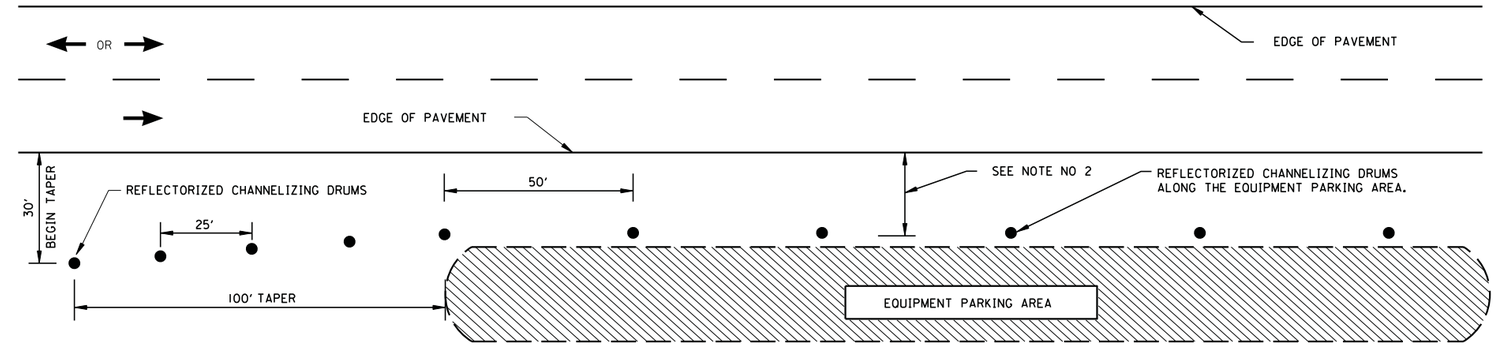


(FOR USE WHERE EXCAVATION HAS BEEN DONE, BUT WIDENING IS NOT COMPLETED BY NIGHTFALL OR WHERE PAVEMENT DROP OFF OF RESURFACING PROJECTS IS 3" OR MORE AT NIGHTFALL)

TYPICAL FOR DROP-OFF AT EDGE OF PAVEMENT

NOTE: THE CONTRACTOR IS TO CONSTRUCT A WEDGE OF UNCLASSIFIED EXCAVATION OR CRUSHED AGGREGATE BASE . THE COST OF PLACING AND REMOVAL SHALL BE A SUBSIDIARY OBLIGATION OF THE ADJACENT LAYER.

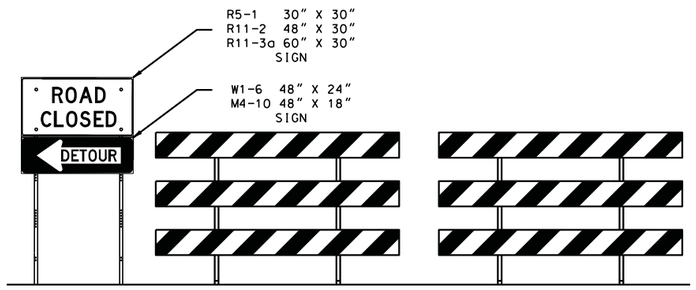
CHANNELIZING DRUMS SHALL BE PLACED AT 50 FT INTERVALS.



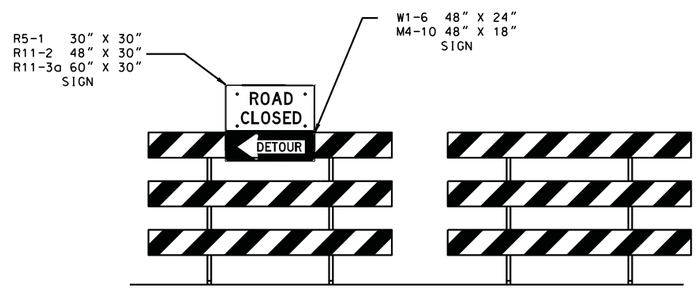
NOTES:

1. SEE ALDOT'S GENERAL TRAFFIC CONTROL PLAN NOTE NO. 702.
2. DRUMS TO BE AS FAR AS PRACTICAL FROM EDGE OF PAVEMENT. MINIMUM DESIRABLE DISTANCE IS 15 FEET FOR FREEWAY TYPE FACILITIES AND 10 FEET FOR OTHER FACILITIES. FOR UNUSUAL CONDITIONS, SUCH AS SPECIAL EQUIPMENT OR LIMITED AVAILABLE SPACE, DIMENSIONS LESS THAN DESIRABLE SHALL BE AS DIRECTED BY THE ENGINEER.
3. ALL DEVICES TO BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE ALDOT.

DELINEATING DETAIL FOR EQUIPMENT PARKING OR STORING AREA



DETAILS FOR TYPICAL PLACEMENT OF TYPE III BARRICADES INSIDE OF CLEAR ZONE



DETAILS FOR TYPICAL PLACEMENT OF TYPE III BARRICADES OUTSIDE OF CLEAR ZONE

NOTES

1. SLOPE OF STRIPES ON BARRICADES SHALL BE IN ACCORDANCE WITH SECTION 6F.68 OF THE MUTCD AND DRAWING B-107-2.
2. IF SIGNS ARE REQUIRED TO BE USED IN CONJUNCTION WITH TYPE III BARRICADES TO BE PLACED INSIDE THE CLEAR ZONE, THEY SHALL BE POST MOUNTED TO THE SIDE OF THE BARRICADES AS SHOWN.
3. IF ROAD CLOSED OR DETOUR SIGNS ARE REQUIRED TO BE USED WITH TYPE III BARRICADES TO BE PLACED OUTSIDE THE CLEAR ZONE, THEY SHALL BE PLACED ON THE TOP OF THE BARRICADES NEAREST THE DETOUR.

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ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING
STANDARD DETAILS FOR
TRAFFIC CONTROL PLANS

DRAWN BY:	SPECIAL PROJECT DETAIL	INDEX NO.
DATE DRAWN: 07/23/2019		2001

SHEET NO. : 100-A

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TRAFFIC CONTROL PLAN

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

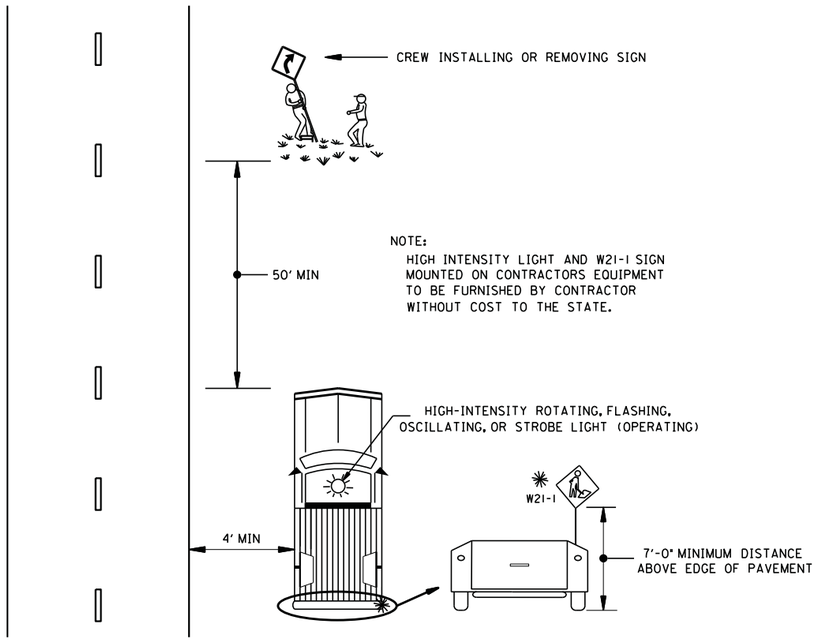
PREPARED BY : THOMPSON ENGINEERING, INC.
1731 GULF SHORES PKWY, SUITE
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

CHECKED BY: --
APPROVED BY: --
DRAWN BY: --
SCALE: --

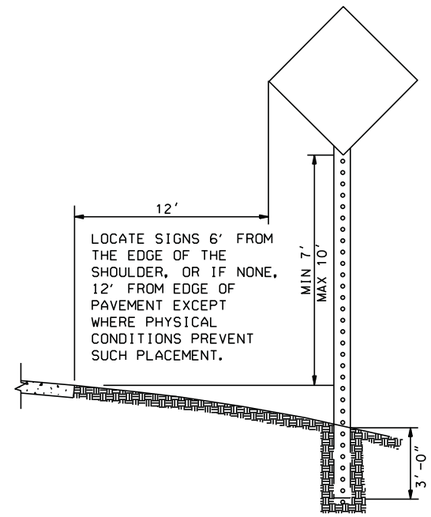
REVISION NO. | DESCRIPTION | DATE | BY:

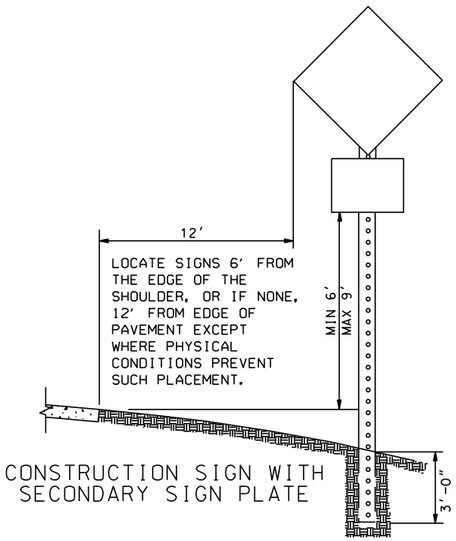
100A_TCP_STP2001.dgn
2021.12.31 14:21:29

TEMPORARY TRAFFIC CONTROL PLAN SHEET



TYPICAL METHOD FOR INSTALLING OR REMOVING CONSTRUCTION SIGNS

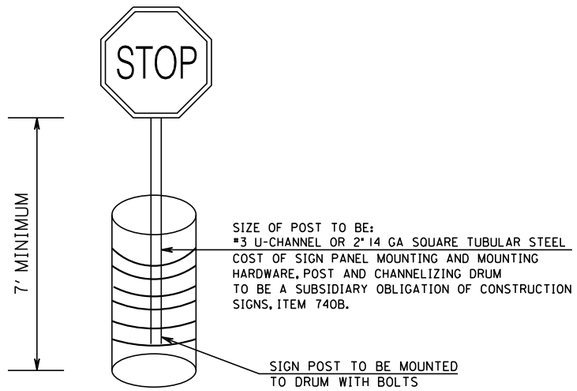




CONSTRUCTION SIGN WITH SECONDARY SIGN PLATE

NOTE : IF THE CONTRACTOR CHOOSES TO SPLICE THE POSTS FOR THE REQUIRED POST MOUNTED CONSTRUCTION SIGNS, THEY SHALL BE SPLICED AS SHOWN ON DRAWING IHS-710-23.

HEIGHT AND LATERAL LOCATION OF POST MOUNTED CONSTRUCTION SIGNS



DETAIL FOR DRUM MOUNTED CONSTRUCTION SIGNS

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ALABAMA DEPARTMENT OF TRANSPORTATION

1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

STANDARD DETAILS
FOR TRAFFIC CONTROL PLANS

DRAWN BY: _____
DATE DRAWN: 06/12/2019

SPECIAL PROJECT DETAIL

INDEX NO
200IA

SHEET NO. : 100-B

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TRAFFIC CONTROL PLAN

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
251 McMEANS AVENUE, SUITE 2-D
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

thompson ENGINEERING

DRAWN BY: -- CHECKED BY: -- APPROVED BY: -- DATE : --

PREPARED BY :

SCALE: --

REVISION NO. | DESCRIPTION | DATE | BY:

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100B_TCP_SPD2001A.dgn
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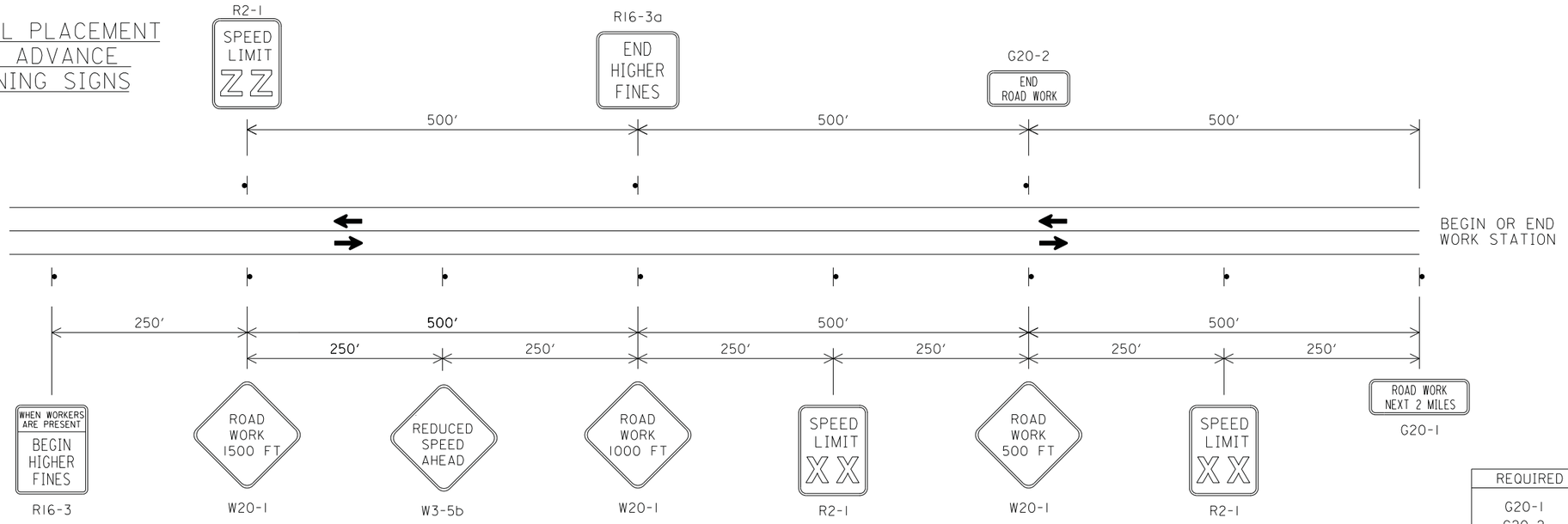
TEMPORARY TRAFFIC CONTROL PLAN SHEET

TYPICAL PLACEMENT FOR ADVANCE WARNING SIGNS

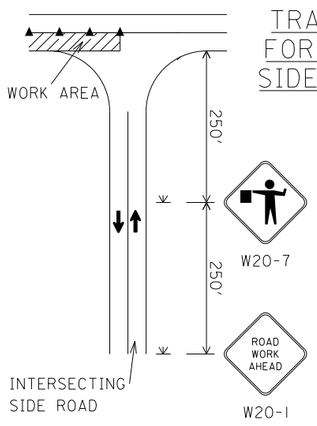


REQUIRED SIGN SIZES	
G20-1	48" X 24"
G20-2	48" X 24"
R2-1	24" x 30"
W3-5b	48" x 48"
R16-3	48" X 60"
R16-3a	48" X 48"
W20-1	48" X 48"
W20-4	48" X 48"
W20-7	48" X 48"

GENERAL NOTES

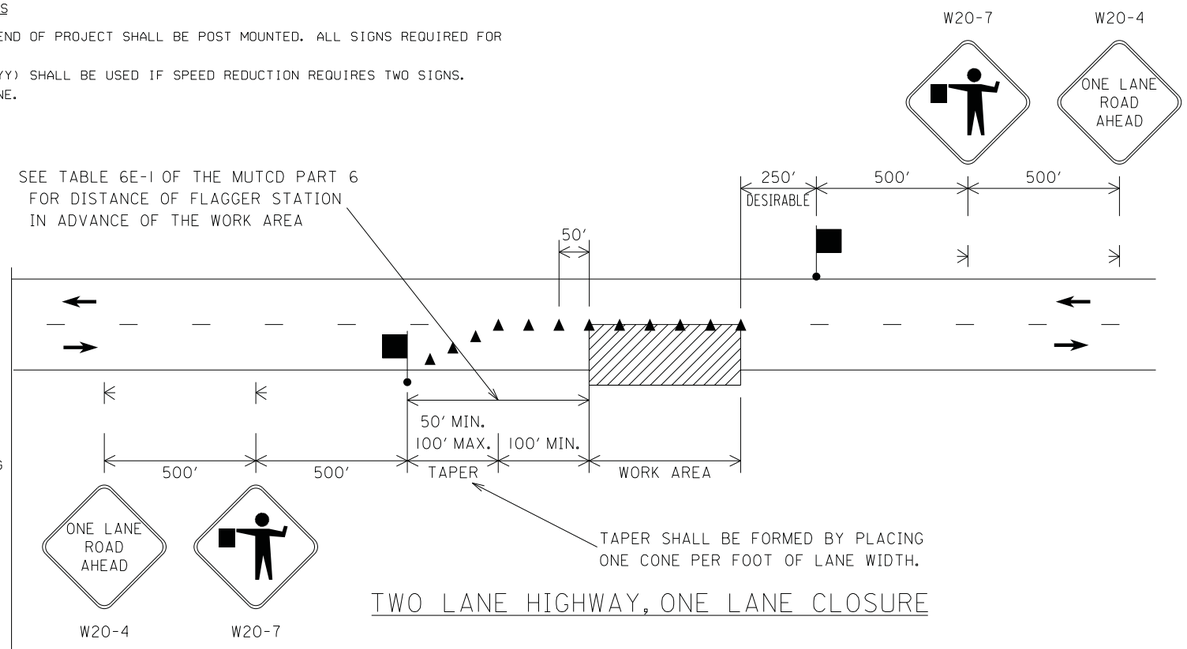
1. ALL ADVANCE WARNING SIGNS REQUIRED AT THE BEGINNING AND END OF PROJECT SHALL BE POST MOUNTED. ALL SIGNS REQUIRED FOR THE LANE CLOSURE SHALL BE TEMPORARY MOUNTED.
2. SIGN (XX) SHALL SHOW THE SPEED IN THE WORK ZONE. SIGN (YY) SHALL BE USED IF SPEED REDUCTION REQUIRES TWO SIGNS. SIGN(ZZ) SHALL SHOW THE POSTED SPEED OUTSIDE THE WORK ZONE.

TRAFFIC CONTROL FOR INTERSECTING SIDE ROADS WITHIN WORK AREA



NOTE: THE W20-1 SIGN TO BE USED ON INTERSECTING ROADS SHALL BE 36" X36" IN SIZE. THE TEMPORARY MOUNTED W20-1 SIGN SHOWN ON THE SIDE ROAD, WILL NOT BE REQUIRED IF ONE IS ALREADY POST MOUNTED ON THE SIDE STREET.

TWO LANE HIGHWAY, ONE LANE CLOSURE



THE SIGN SIZES SHOWN ON THIS SHEET SHALL SUPERCEDE THOSE SHOWN ON THE STANDARD HIGHWAY SIGNS DRAWINGS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

LEGEND

- TEMPORARY MOUNTED SIGN
- POST MOUNTED SIGN
- CONES
- FLAGGER
- WORK AREA

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ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

DETAILS FOR TRAFFIC CONTROL FOR TWO LANE HIGHWAYS

DRAWN BY:
DATE DRAWN: 3/24/2021

SPECIAL PROJECT DETAIL

INDEX NO. 2002

SHEET NO. : 100-C

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TRAFFIC CONTROL PLAN

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : THOMPSON ENGINEERING, INC.
CHECKED BY: --
APPROVED BY: --
DRAWN BY: --
SCALE: --

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REVISION NO.	DESCRIPTION	DATE	BY:

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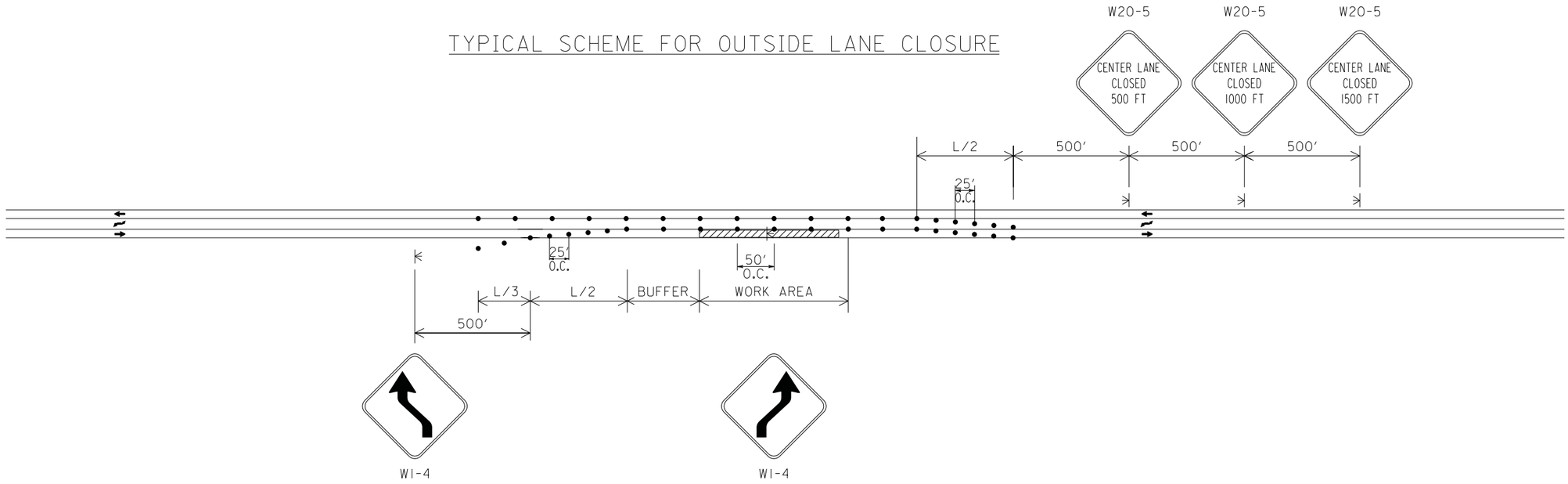
2021.12.31 14:21:35

TEMPORARY TRAFFIC CONTROL PLAN SHEET

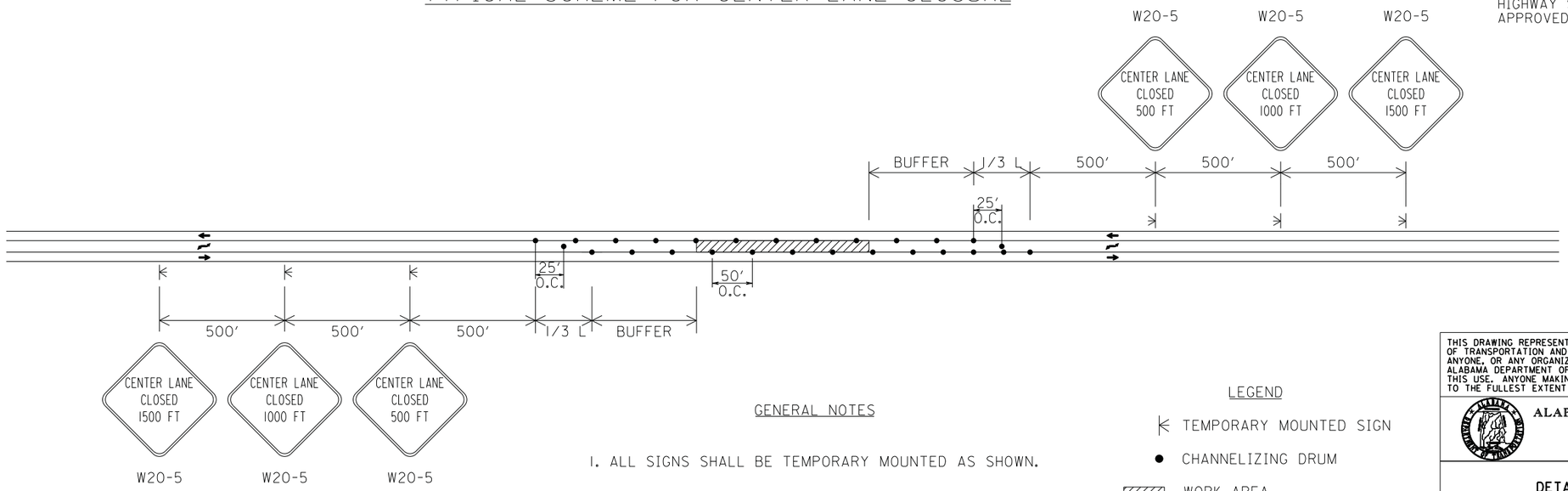
TYPICAL SCHEME FOR OUTSIDE LANE CLOSURE



REQUIRED SIGN SIZES	
W1-4	48" X 48"
W20-5	48" X 48"

THE SIGN SIZES SHOWN ON THIS SHEET SHALL SUPERCEDE THOSE SHOWN ON THE STANDARD HIGHWAY SIGNS DRAWINGS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TYPICAL SCHEME FOR CENTER LANE CLOSURE



GENERAL NOTES

1. ALL SIGNS SHALL BE TEMPORARY MOUNTED AS SHOWN.

LEGEND

- TEMPORARY MOUNTED SIGN
- CHANNELIZING DRUM
- WORK AREA

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ALABAMA DEPARTMENT OF TRANSPORTATION

1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

DETAILS FOR TRAFFIC CONTROL FOR 3-LANE HIGHWAY LANE CLOSURES

DRAWN BY: _____
DATE DRAWN: 06/12/2019

SPECIAL PROJECT DETAIL

INDEX NO. 2021

SHEET NO. : 100-D

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TRAFFIC CONTROL PLAN

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
1731 GULF ST. SUITE 5
ORANGE BEACH, ALABAMA 36561
(251) 370-6990

CHECKED BY: --

APPROVED BY: --

DRAWN BY: --

SCALE: --

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REVISION NO.	DESCRIPTION	DATE	BY:
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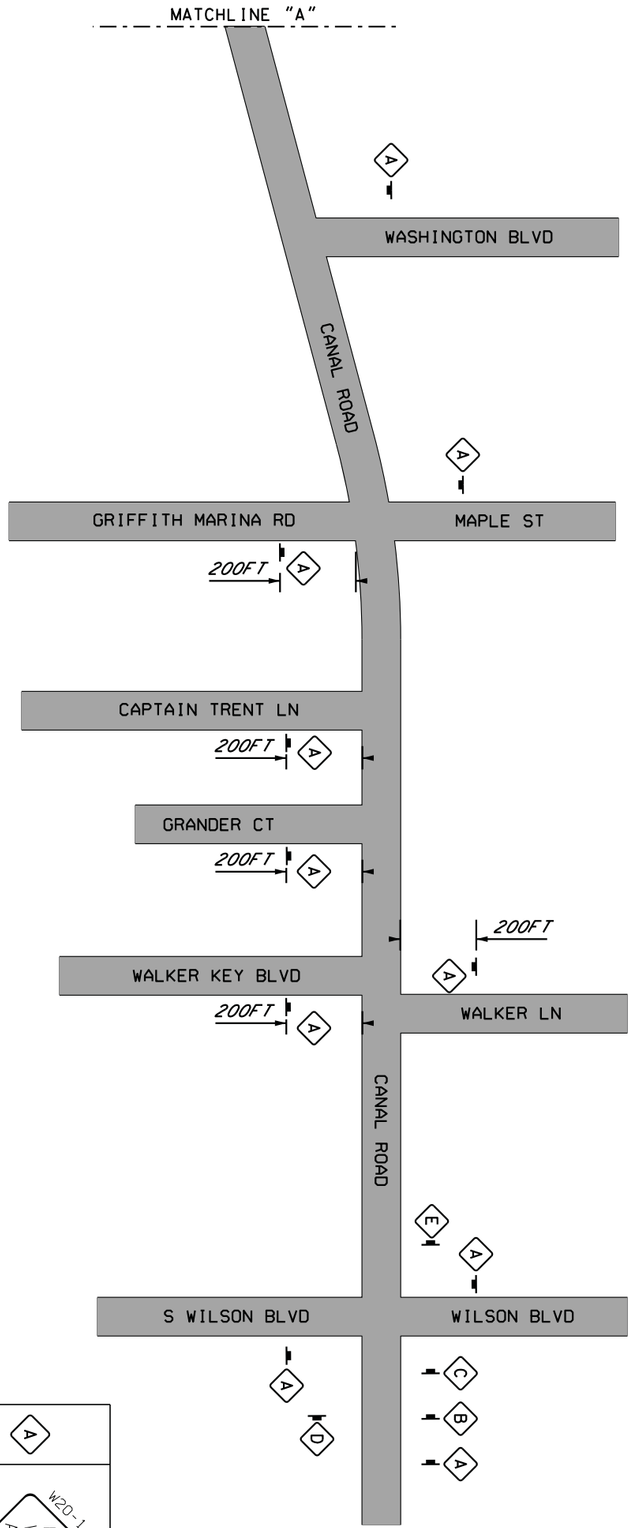
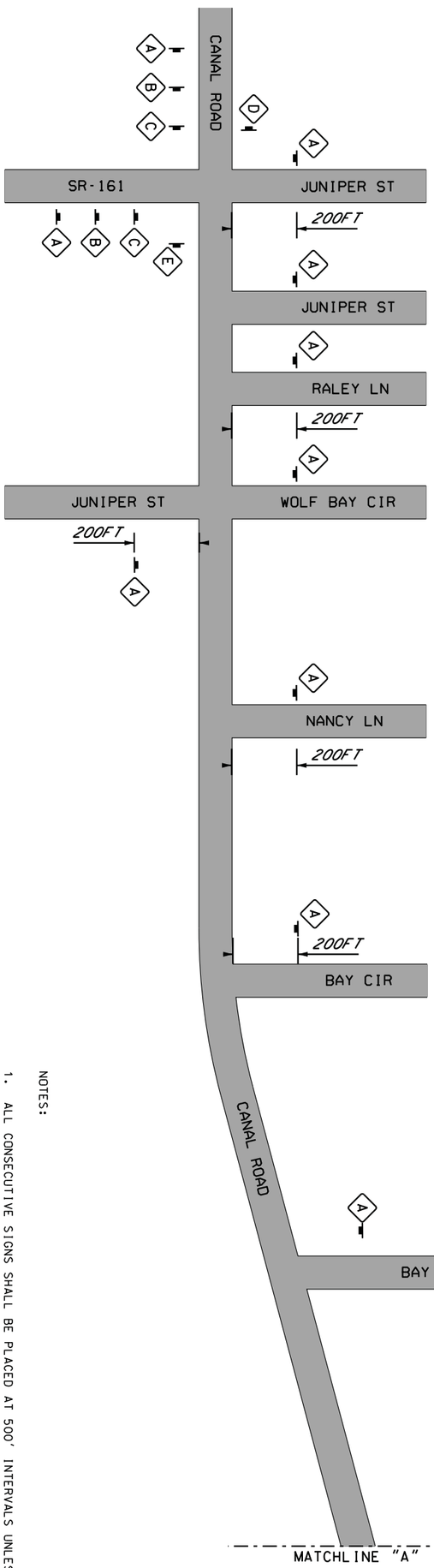
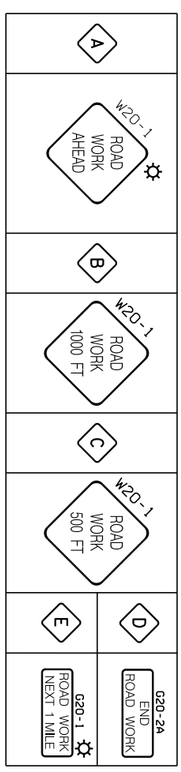




ADVANCE WARNING - ALL PHASES

NOTES:

1. ALL CONSECUTIVE SIGNS SHALL BE PLACED AT 500' INTERVALS UNLESS SHOWN OTHERWISE.
2. TYPE B WARNING LIGHTS SHALL NOT BE USED AT SIDE STREETS.



REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING
THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE F-212
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

TRAFFIC CONTROL PLAN

SHEET NO. : 101

SCALE:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE :	JOB NO. :	REVISION NO. :
--	--	--	--	DEC 2021	20-1101-0085	--

STA 668+00.00 TO STA 670+50.00

SHEET NO. : 150

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
7351 WEST CANAL DRIVE, SUITE A
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

DRAWN BY: --
CHECKED BY: --
APPROVED BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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2021.12.31 14:21:49
150_XSh.dgn

STA 671+00.00 TO STA 673+50.00

SHEET NO. : 151

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
REVISION NO. : --
DATE : DEC 2021
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'
VERT 1"=5'
PREPARED BY :

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
251 MAGNOLIA AVENUE, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

thompson ENGINEERING

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE USED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ENGINEER. ANY UNAUTHORIZED USE OF THESE DESIGNS SHALL BE CONSIDERED AT THE USER'S SOLE RISK AND SHALL RELIEVE THE ENGINEER OF ANY LIABILITY RESULTING FROM SUCH USE. UNAUTHORIZED USE OF THESE DESIGNS SHALL BE SUBJECT TO LEGAL ACTION AT THE USER'S EXPENSE.

2021.12.31 14:21:00
150_XSh.dgn

CUT AREA: 16.31 SQ FT
FILL AREA: 28.33 SQ FT

STA 675+00.00

CUT VOL: 26.04 CU FT
FILL VOL: 50.81 CU FT

CUT AREA: 13.75 SQ FT
FILL AREA: 19.99 SQ FT

STA 676+50.00

CUT VOL: 20.76 CU FT
FILL VOL: 53.51 CU FT

CUT AREA: 11.81 SQ FT
FILL AREA: 26.54 SQ FT

STA 674+50.00

CUT VOL: 36.23 CU FT
FILL VOL: 34.13 CU FT

CUT AREA: 8.67 SQ FT
FILL AREA: 37.80 SQ FT

STA 676+00.00

CUT VOL: 13.75 CU FT
FILL VOL: 70.07 CU FT

CUT AREA: 27.32 SQ FT
FILL AREA: 10.32 SQ FT

STA 674+00.00

CUT VOL: 31.28 CU FT
FILL VOL: 44.05 CU FT

CUT AREA: 6.17 SQ FT
FILL AREA: 37.87 SQ FT

STA 675+50.00

CUT VOL: 20.82 CU FT
FILL VOL: 61.30 CU FT

STA 674+00.00 TO STA 676+50.00

SHEET NO. : 152

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
3531 MAPLE STREET, SUITE 200
ORANGE BEACH, ALABAMA 36561
(251) 370-6990

DRAWN BY: --
CHECKED BY: --
APPROVED BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO. | DESCRIPTION | DATE | BY:

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150_XSH.dgn
2021.12.31 14:31:51

STA 677+00.00 TO STA 679+50.00

SHEET NO. : 153

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
2151 NAUTILUS STREET, SUITE 252
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

CHECKED BY: -- | APPROVED BY: -- | DRAWN BY: --

SCALE: HORIZ 1"=30' VERT 1"=5'

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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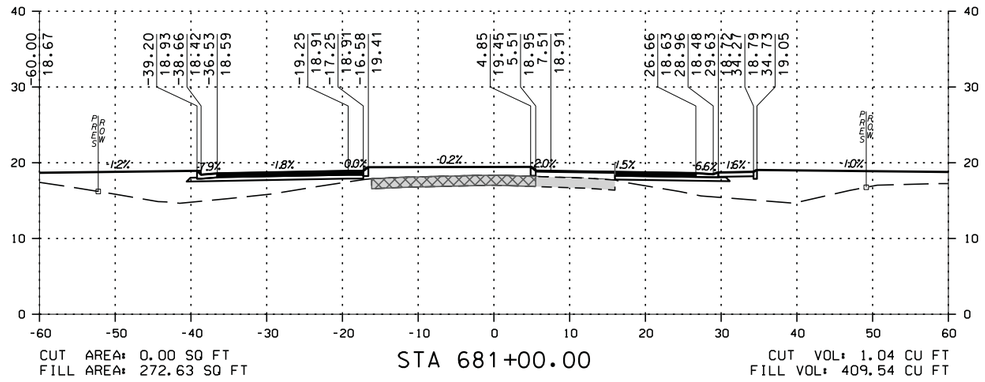
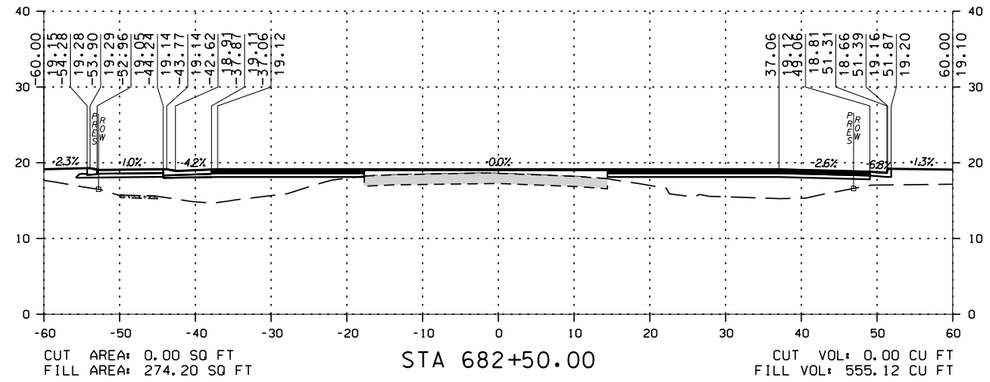
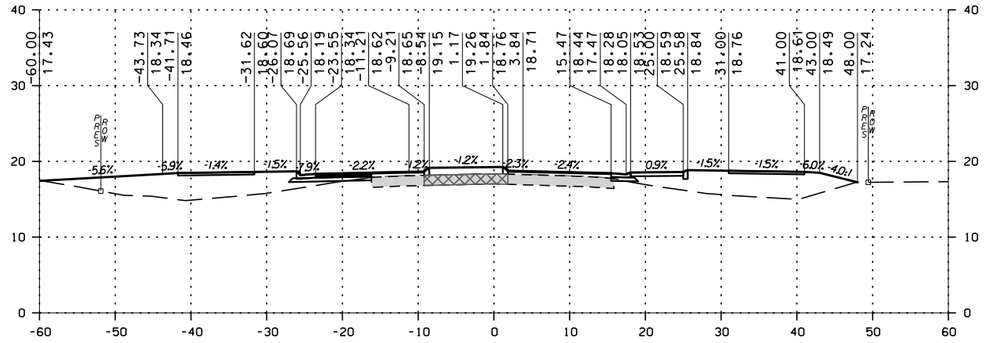
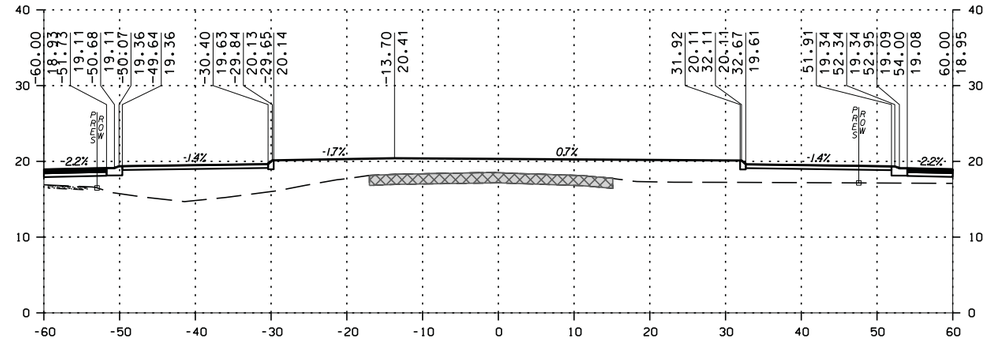
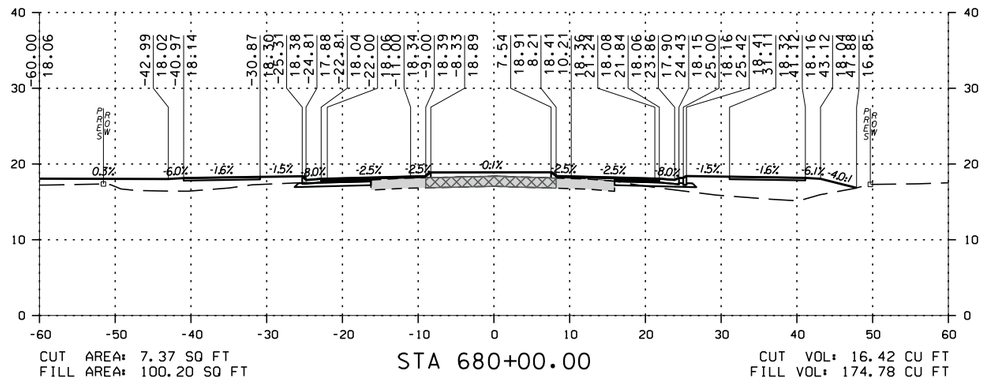
150_XSH.dgn
2021.12.31 14:21:51

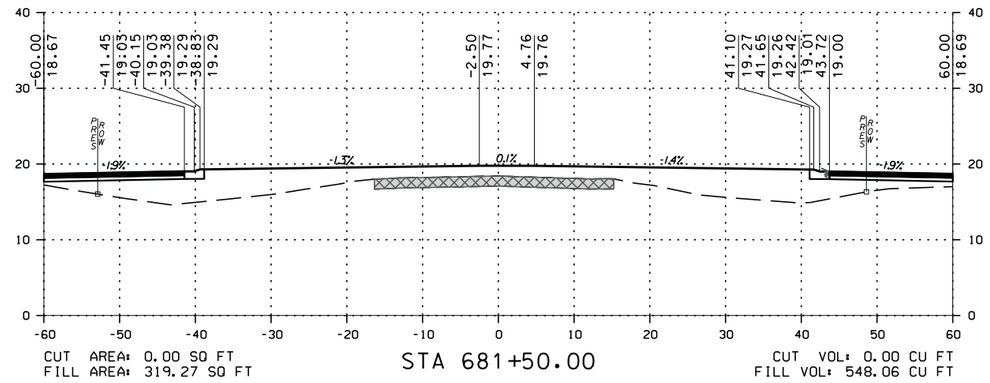












STA 680+00.00 TO STA 682+50.00

SHEET NO. : 154

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

DRAWN BY: -- CHECKED BY: -- APPROVED BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

THOMPSON ENGINEERING, INC.
1531 MAIN STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 370-6990

thompson ENGINEERING

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
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REVISION NO.	DESCRIPTION	DATE	BY:

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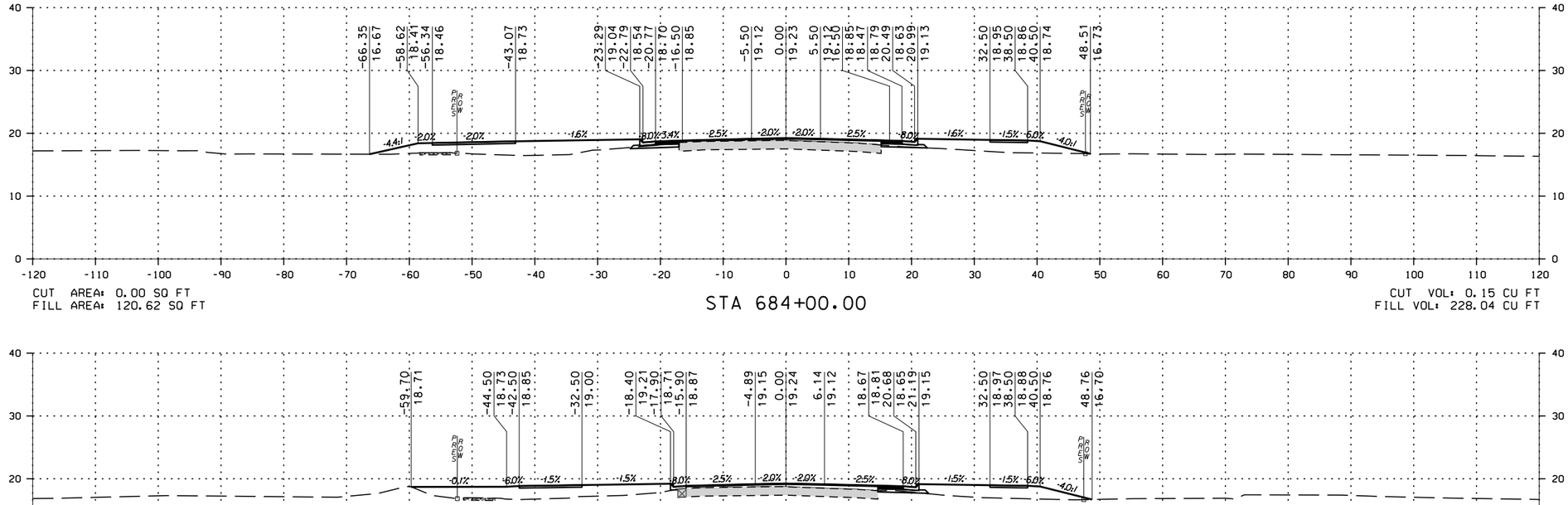
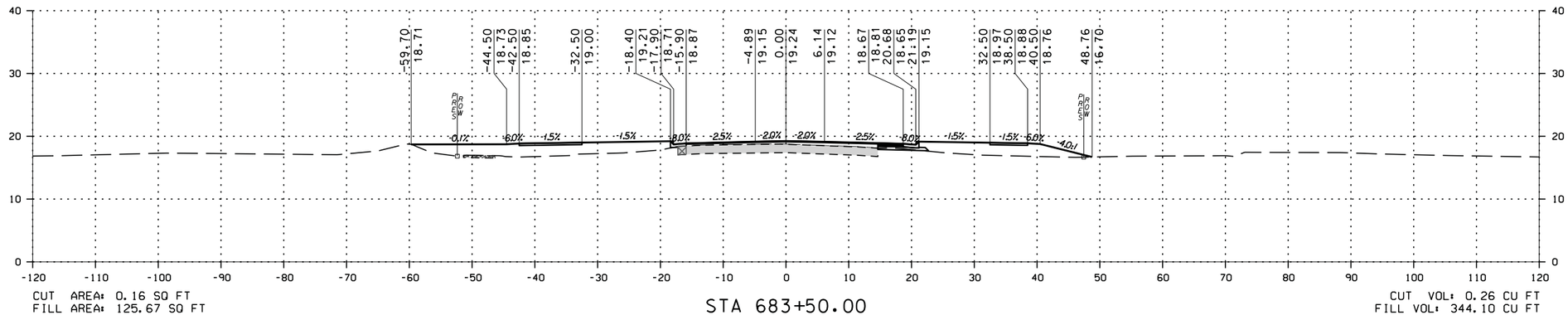
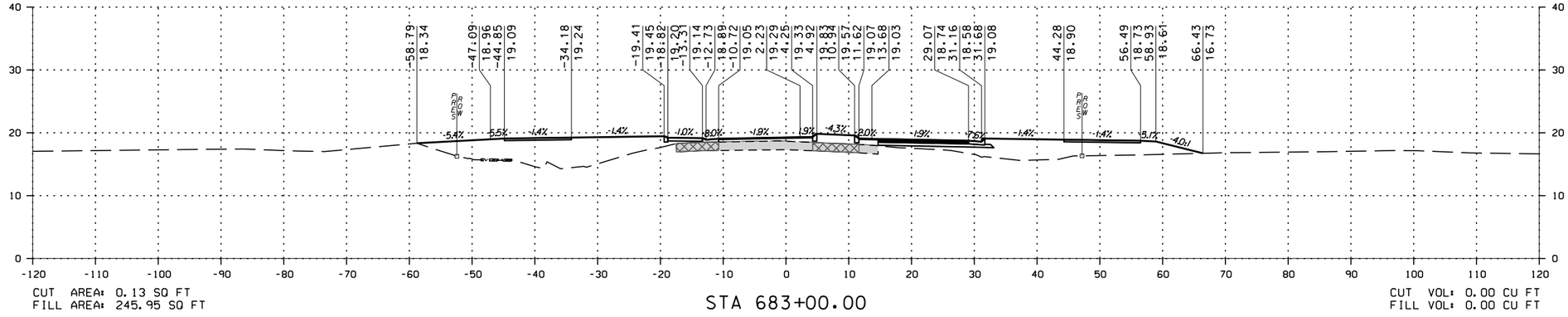
2021.12.31 14:31:52 150_XSH.dgn







STA 683+00.00 TO STA 684+00.00

SHEET NO. : 155

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251 MAGNOLIA AVENUE, SUITE 250
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

CHECKED BY: --
APPROVED BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

DRAWN BY: --

ORANGE BEACH ALABAMA

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REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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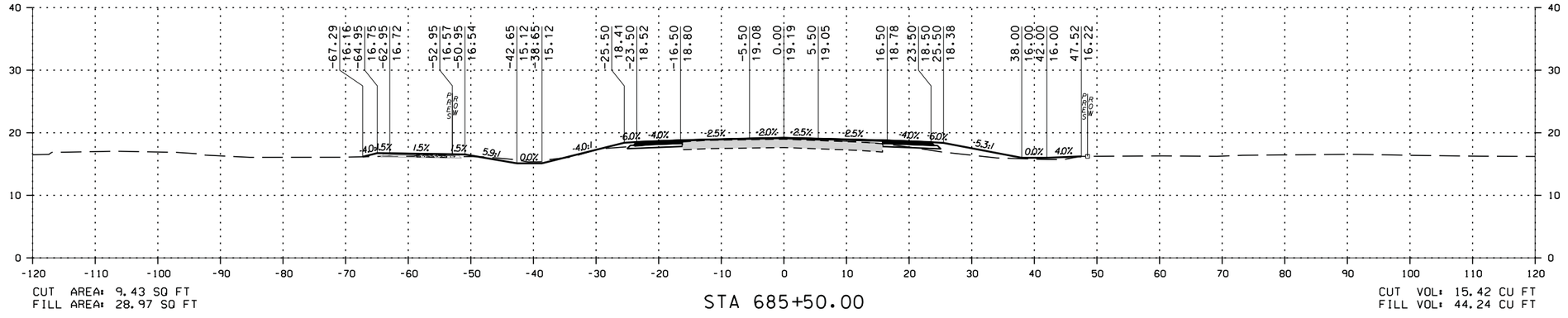
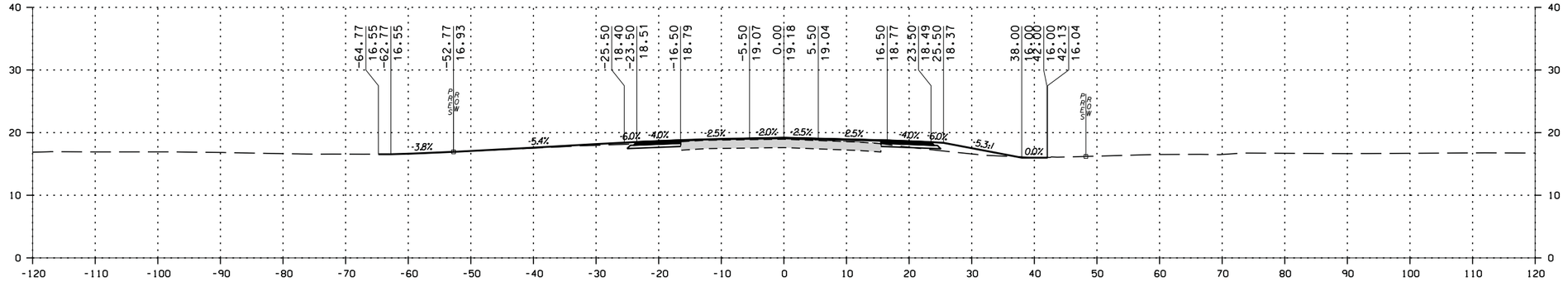
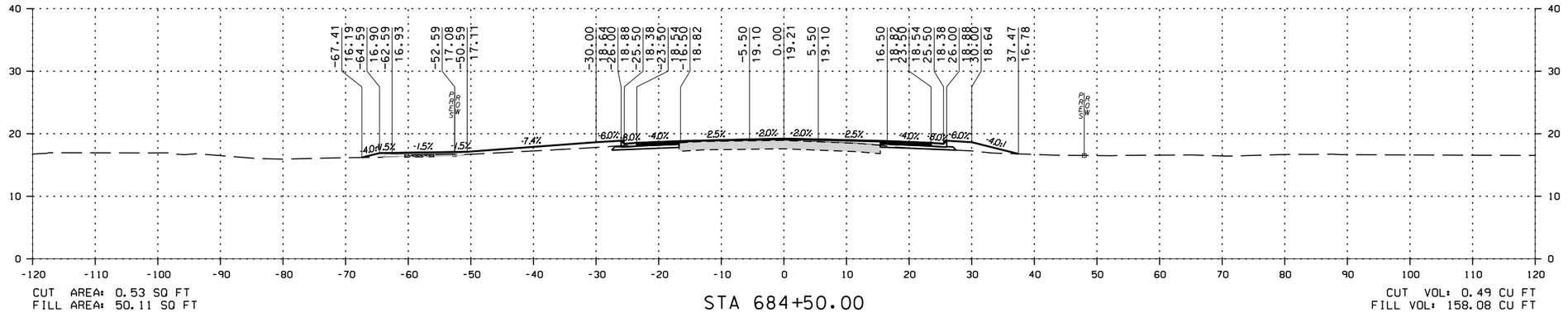
190_XSH.dgn







STA 684+50.00 TO STA 685+50.00

SHEET NO. : 156

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
1731 GULF SHORES PKWY, SUITE 2
GULF SHORES, ALABAMA 36542
(251) 378-6980

DRAWN BY: -- | CHECKED BY: -- | APPROVED BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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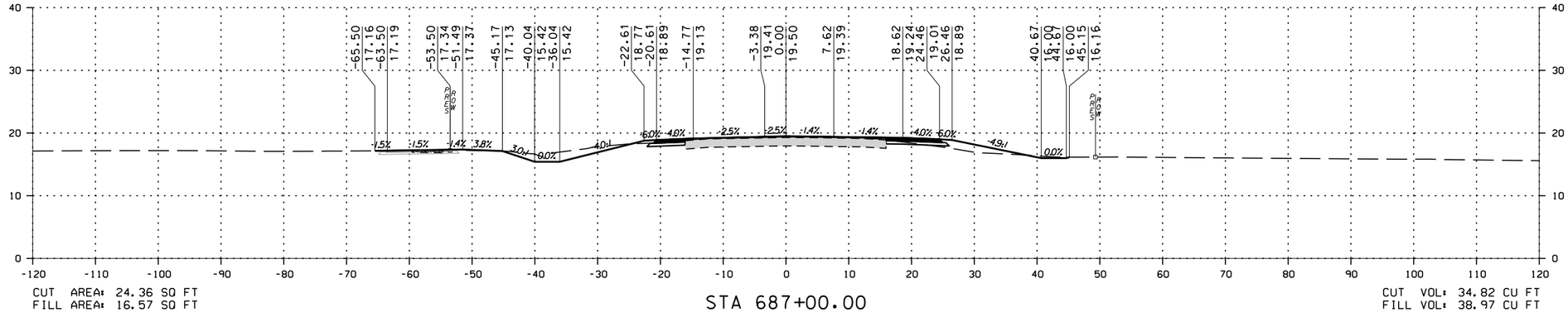
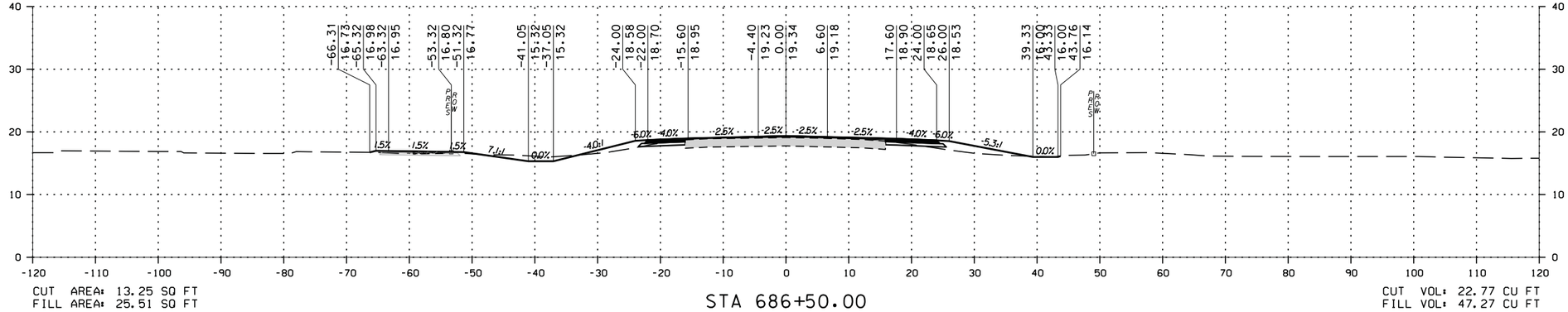
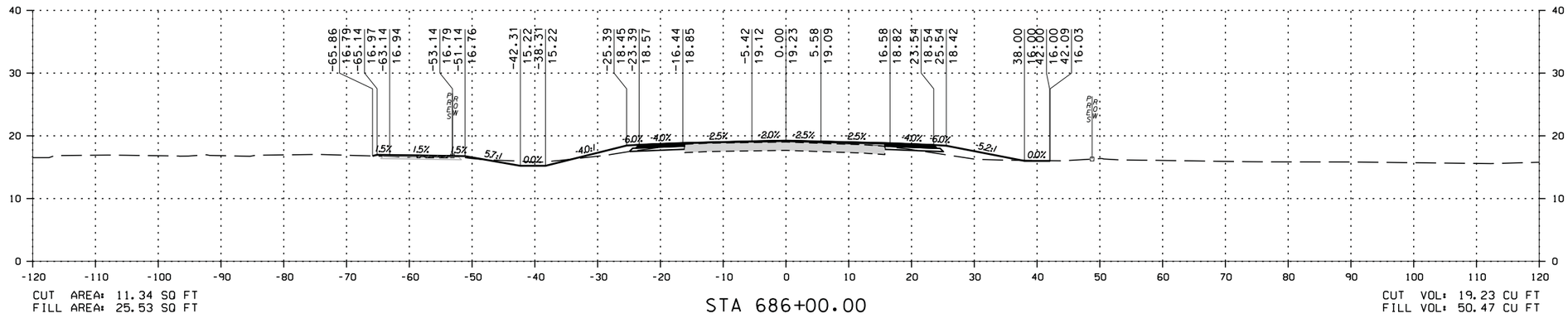
150_XSH.dgn
2021.12.31 14:21:53







STA 686+00.00 TO STA 687+00.00

SHEET NO. : 157

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
1731 GULF SHORES PKWY, SUITE 2
GULF SHORES, ALABAMA 36542
(251) 378-6990

SCALE: HORIZ 1"=30'
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190_XSh.dgn
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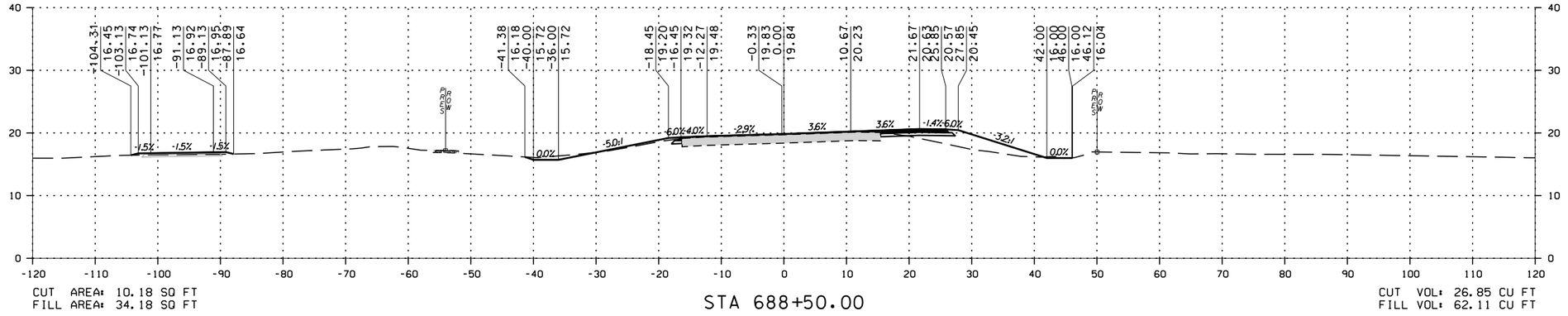

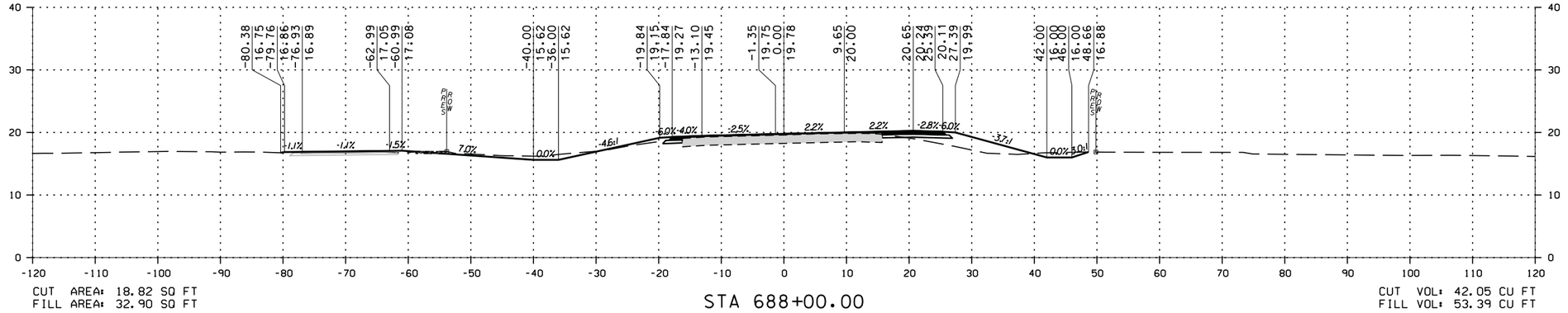

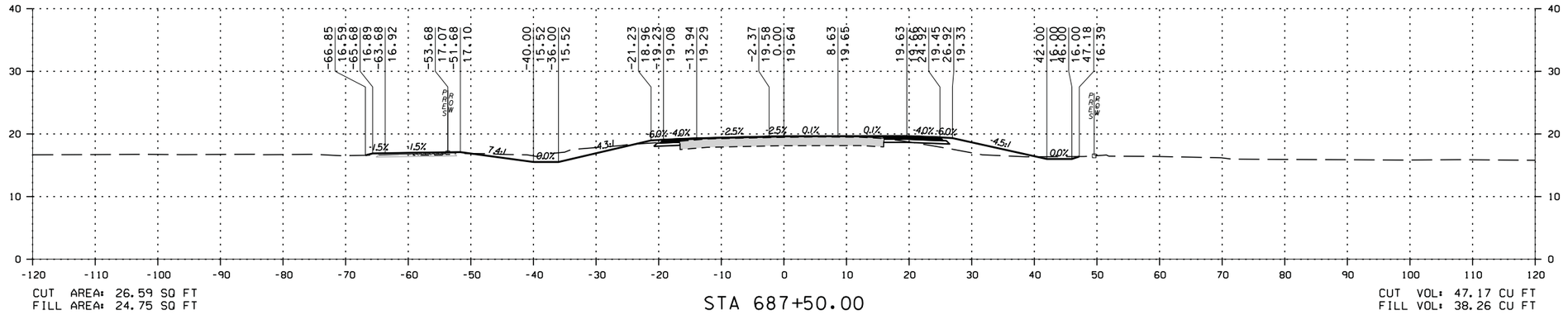

STA 687+50.00 TO STA 688+50.00

SHEET NO. : 158

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085 | REVISION NO. : --

DATE : DEC 2021 | APPROVED BY: -- | CHECKED BY: -- | DRAWN BY: --

SCALE: HORIZ 1"=30' VERT 1"=5"

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
251 MAGNOLIA STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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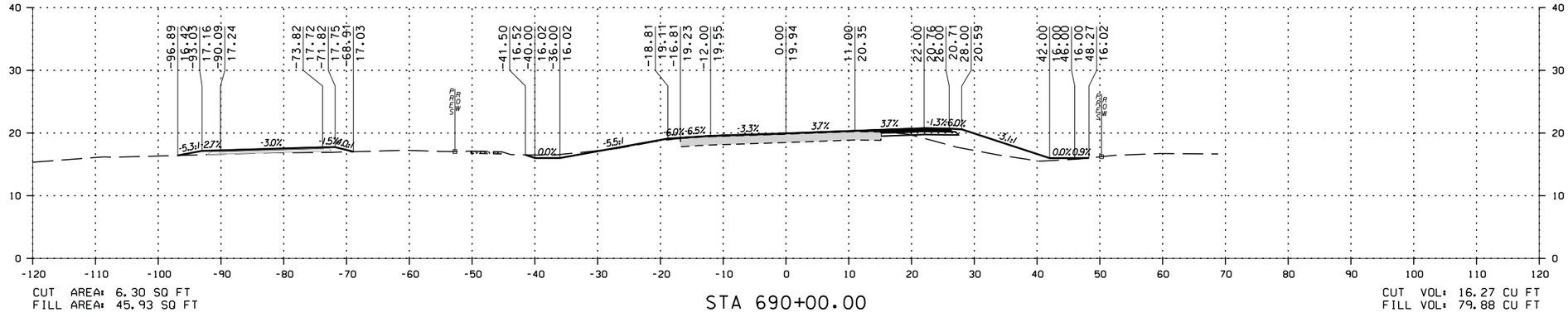
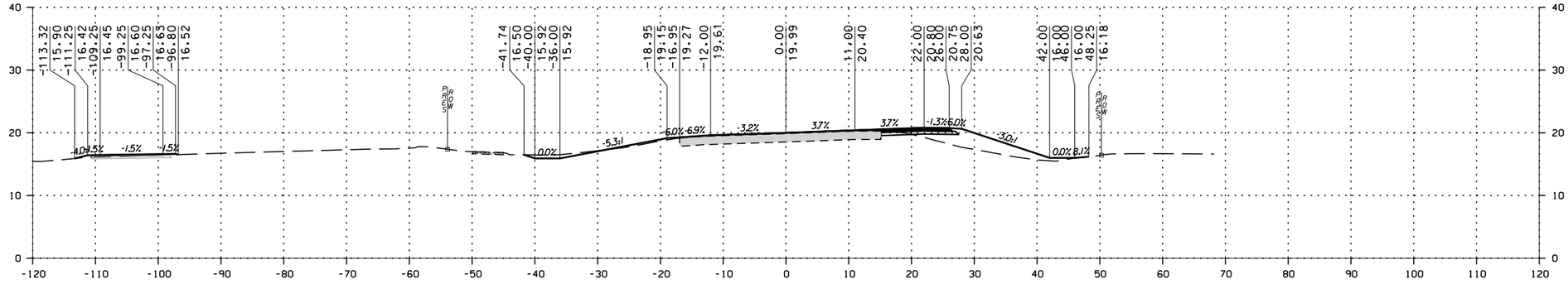
150_XSH.dgn
2021.12.31 14:21:55



CUT AREA: 6.30 SQ FT
FILL AREA: 45.93 SQ FT

STA 690+00.00

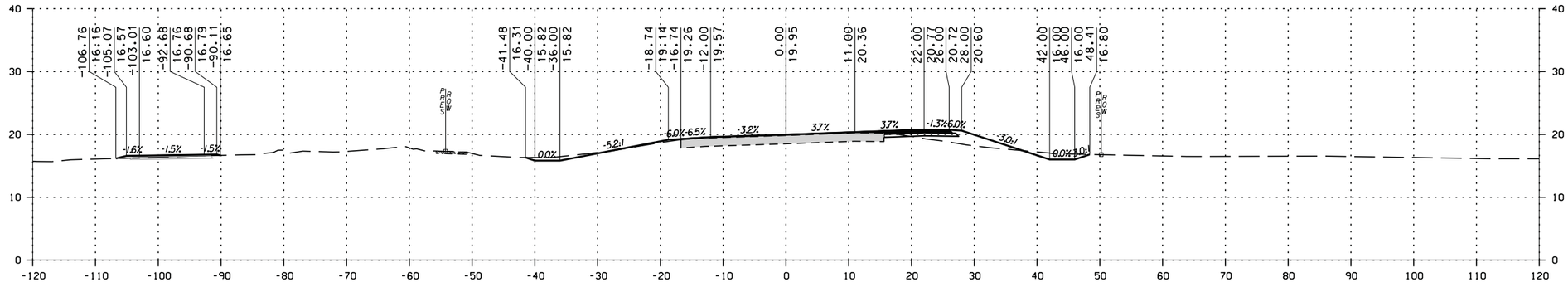
CUT VOL: 16.27 CU FT
FILL VOL: 79.88 CU FT



CUT AREA: 11.27 SQ FT
FILL AREA: 40.33 SQ FT

STA 689+50.00

CUT VOL: 26.43 CU FT
FILL VOL: 56.67 CU FT



CUT AREA: 17.27 SQ FT
FILL AREA: 20.87 SQ FT

STA 689+00.00

CUT VOL: 25.41 CU FT
FILL VOL: 50.97 CU FT

STA 689+00.00 TO STA 690+00.00

SHEET NO. : 159

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'
VERT 1"=5'

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
1731 GULF SHORES PKWY, STE 2
GULF SHORES, ALABAMA 36542
(251) 968-6990

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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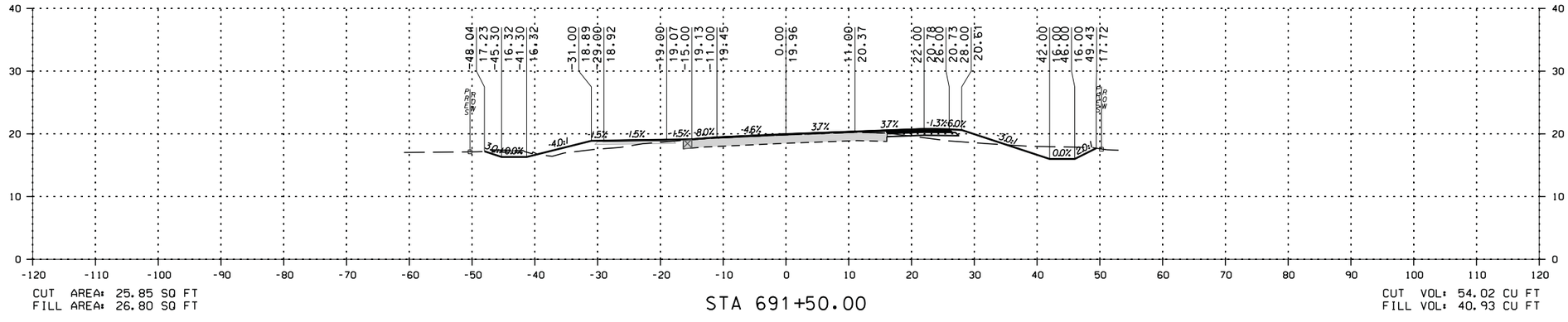
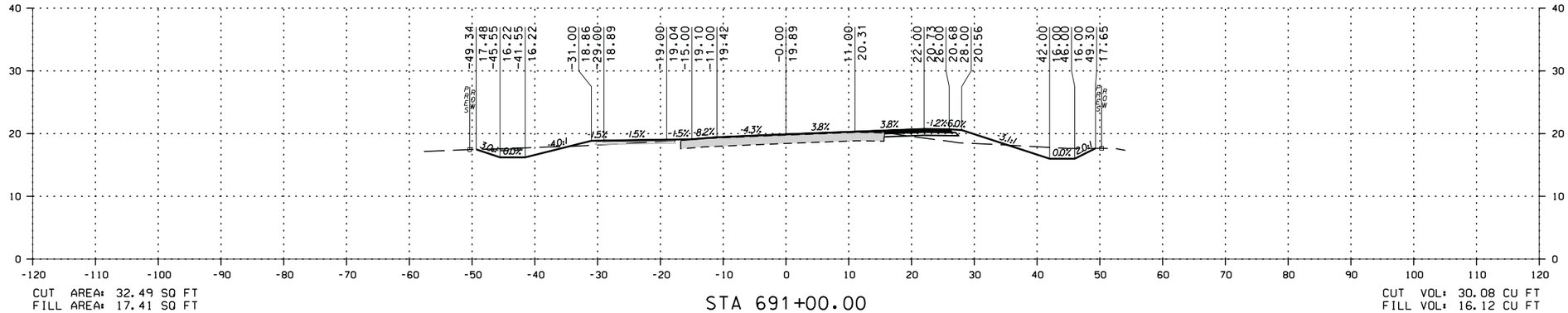
190_XSh.dgn
2021.12.31 14:21:56



CUT AREA: 25.85 SQ FT
FILL AREA: 26.80 SQ FT

STA 691+50.00

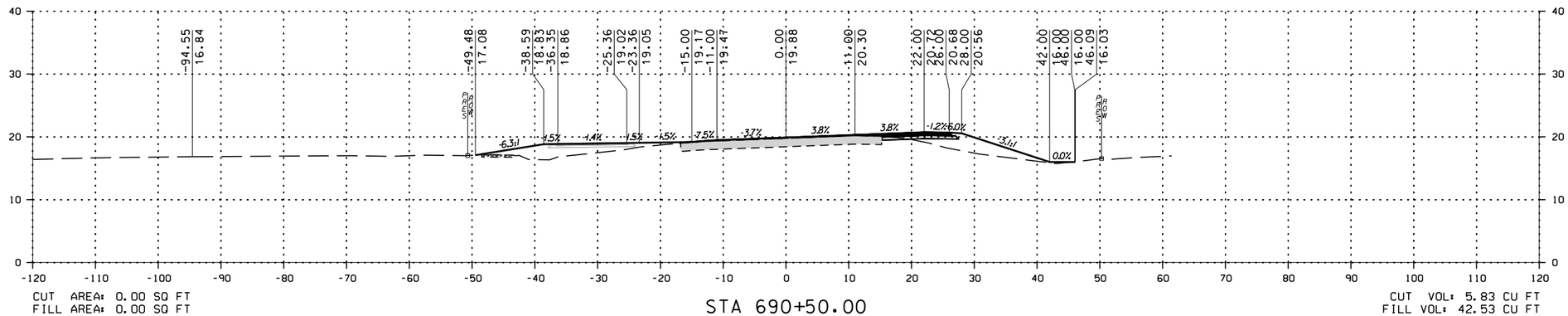
CUT VOL: 54.02 CU FT
FILL VOL: 40.93 CU FT



CUT AREA: 32.49 SQ FT
FILL AREA: 17.41 SQ FT

STA 691+00.00

CUT VOL: 30.08 CU FT
FILL VOL: 16.12 CU FT



CUT AREA: 0.00 SQ FT
FILL AREA: 0.00 SQ FT

STA 690+50.00

CUT VOL: 5.83 CU FT
FILL VOL: 42.53 CU FT

STA 691+50.00 TO STA 690+50.00

SHEET NO. : 160

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
REVISION NO. : --
DATE : DEC 2021
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'
VERT 1"=5'
PREPARED BY :

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
1731 GULF FREEWAY, SUITE 1
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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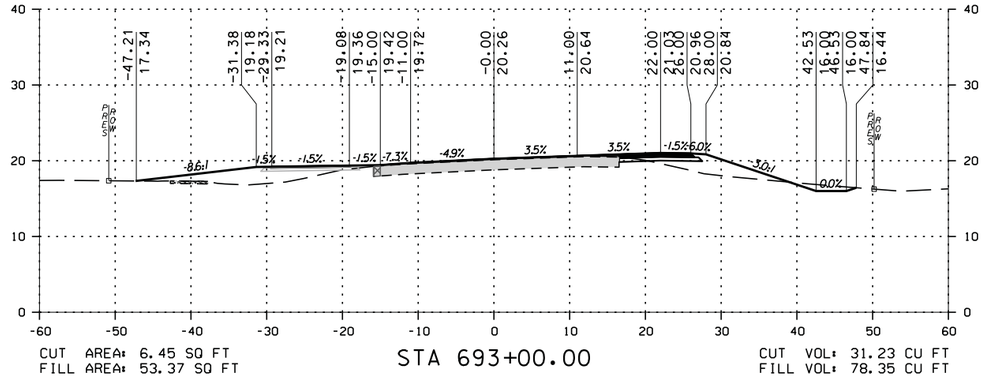
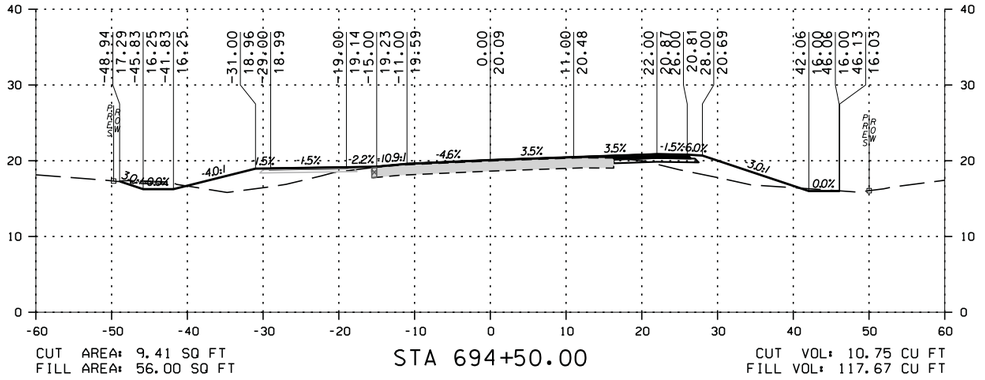
2021.12.31 14:21:56



CUT AREA: 6.45 SQ FT
FILL AREA: 53.37 SQ FT

STA 693+00.00

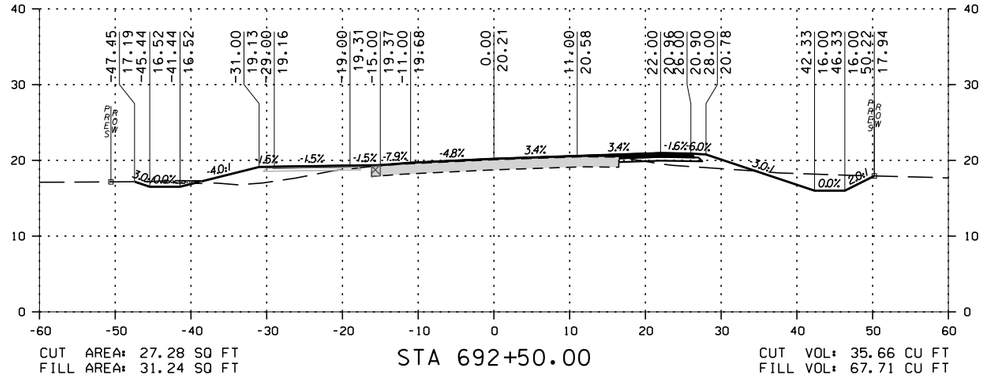
CUT VOL: 31.23 CU FT
FILL VOL: 78.35 CU FT



CUT AREA: 9.41 SQ FT
FILL AREA: 56.00 SQ FT

STA 694+50.00

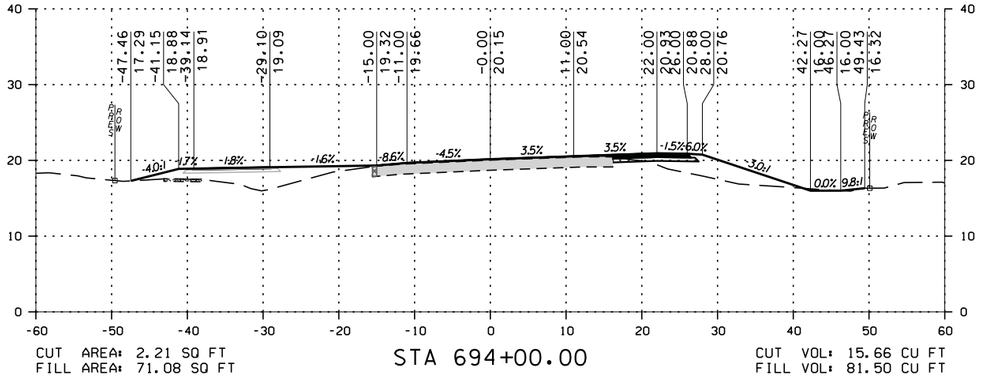
CUT VOL: 10.75 CU FT
FILL VOL: 117.67 CU FT



CUT AREA: 27.28 SQ FT
FILL AREA: 31.24 SQ FT

STA 692+50.00

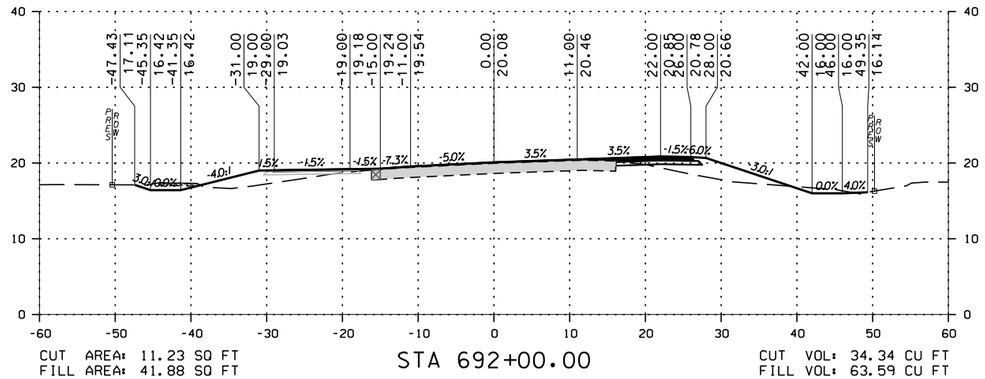
CUT VOL: 35.66 CU FT
FILL VOL: 67.71 CU FT



CUT AREA: 2.21 SQ FT
FILL AREA: 71.08 SQ FT

STA 694+00.00

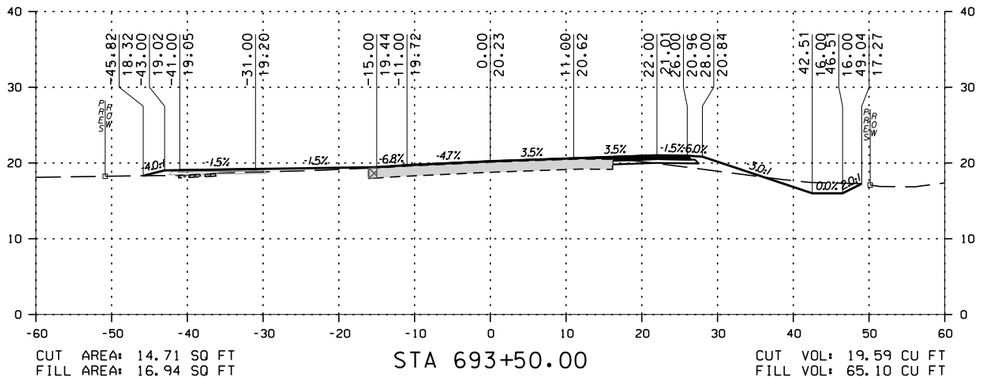
CUT VOL: 15.66 CU FT
FILL VOL: 81.50 CU FT



CUT AREA: 11.23 SQ FT
FILL AREA: 41.88 SQ FT

STA 692+00.00

CUT VOL: 34.34 CU FT
FILL VOL: 63.59 CU FT



CUT AREA: 14.71 SQ FT
FILL AREA: 16.94 SQ FT

STA 693+50.00

CUT VOL: 19.59 CU FT
FILL VOL: 65.10 CU FT

STA 692+00.00 TO STA 694+50.00

SHEET NO. : 161

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'
VERT 1"=5'

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
251 MAGNOLIA AVENUE, SUITE C-202
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

REVISION NO. | DESCRIPTION | DATE | BY:

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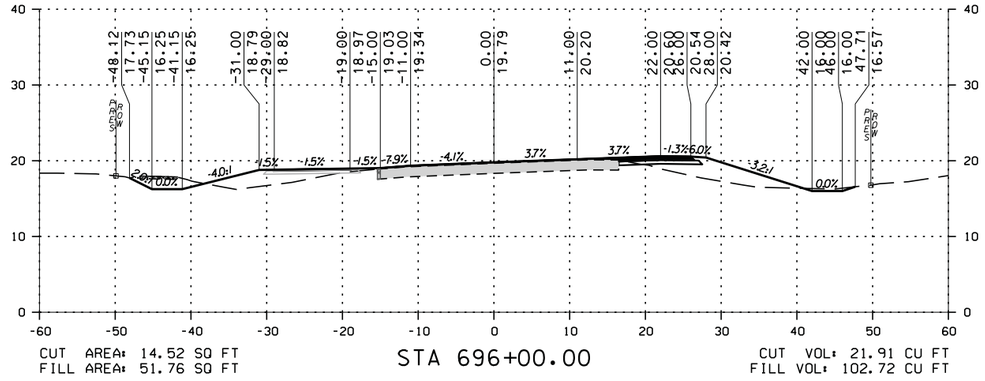
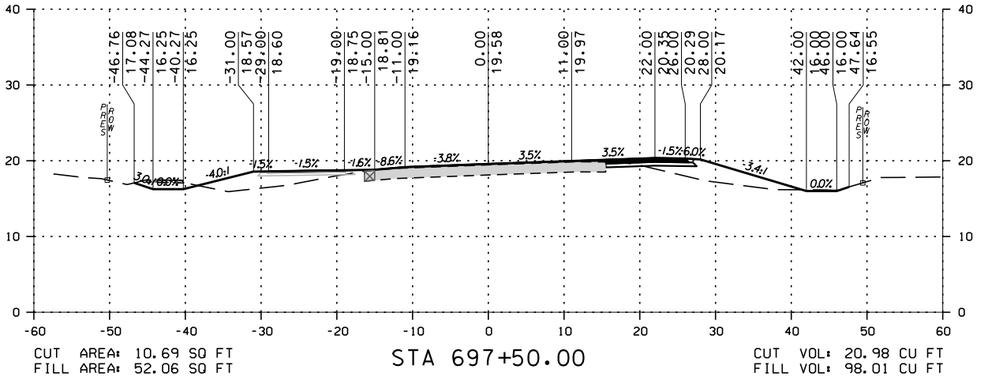
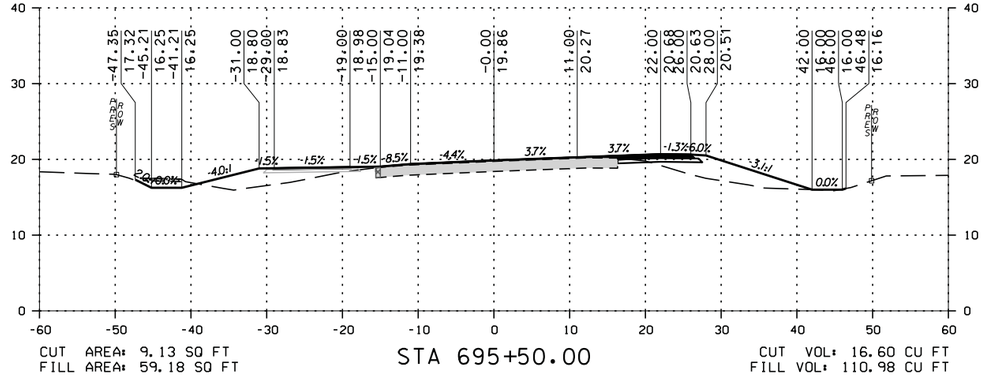
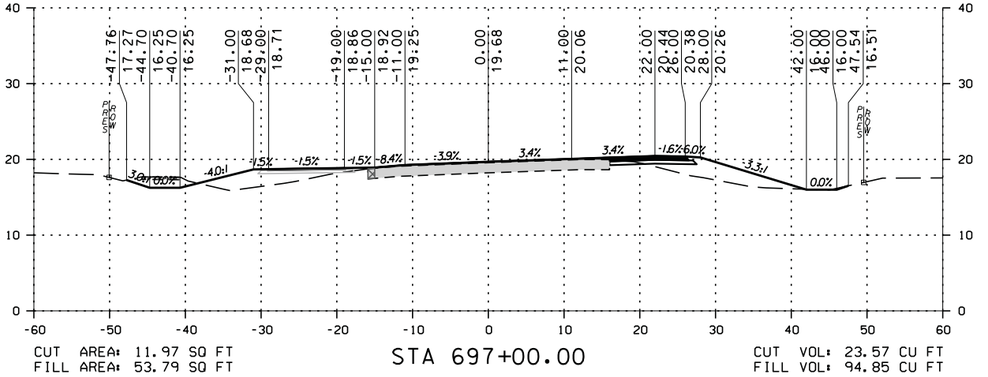
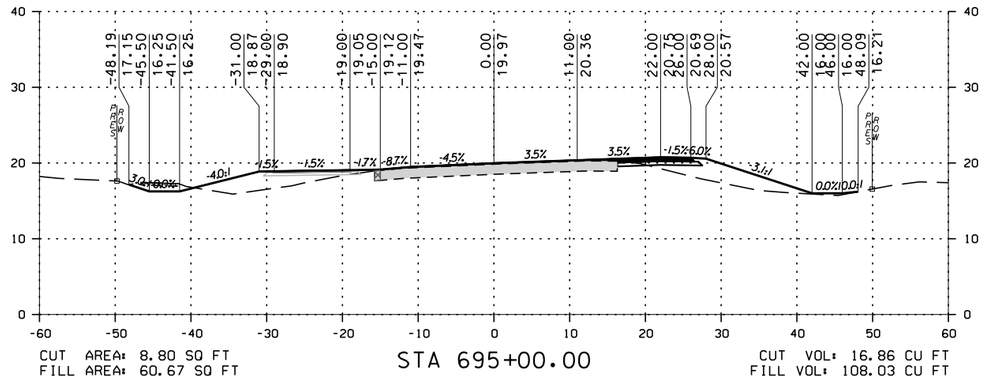
2021.12.31 14:21:57
190_XSH.dgn

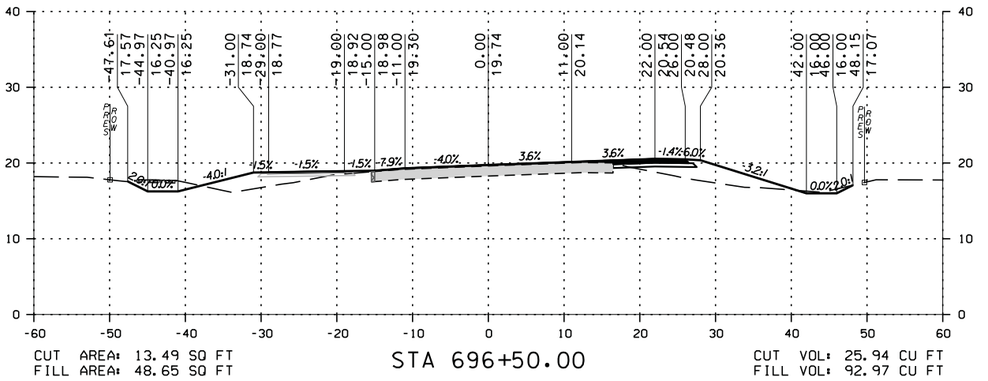












STA 695+00.00 TO STA 697+50.00

SHEET NO. : 162

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
7351 WEST BEACH BLVD., SUITE 203
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

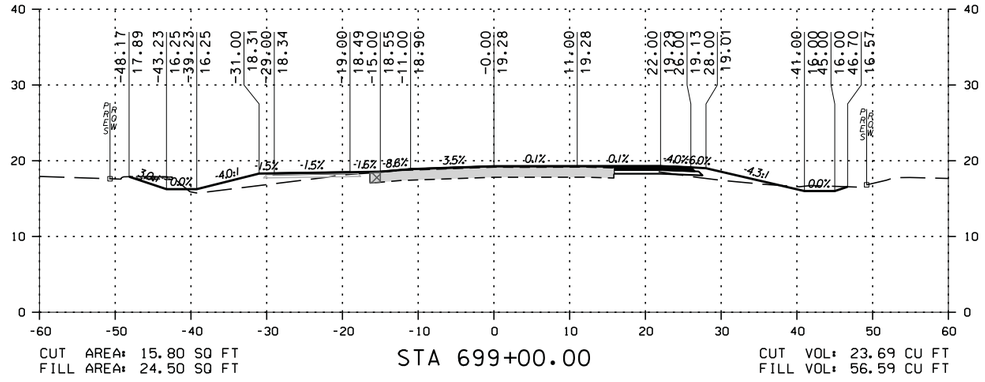
CHECKED BY: -- | APPROVED BY: -- | DRAWN BY: --

SCALE: HORIZ 1"=30' VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE COPIED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THOMPSON ENGINEERING. THE DESIGNS ARE SUBMITTED TO LOCAL, COUNTY AND STATE AUTHORITIES FOR APPROVAL AND ARE NOT TO BE USED, UNAUTHORIZED OR AS MODIFIED BY OTHERS, WITHOUT THE EXPRESS WRITTEN CONSENT OF THOMPSON ENGINEERING, INC.

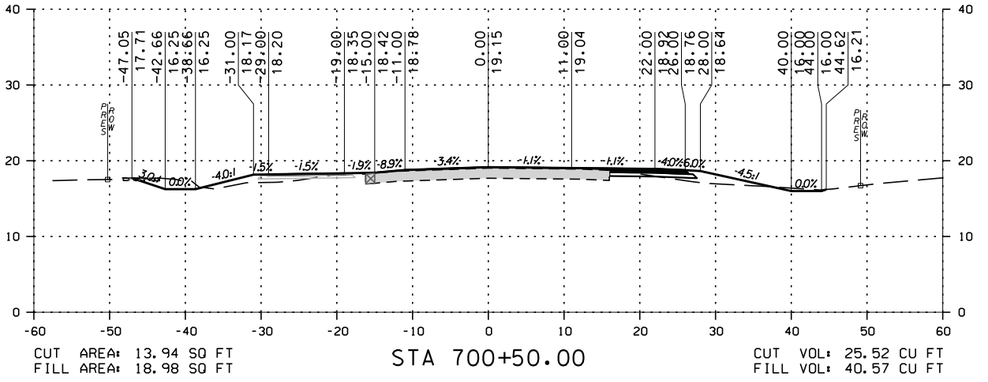
2021.12.31 14:21:58
190_XSH.dgn



CUT AREA: 15.80 SQ FT
FILL AREA: 24.50 SQ FT

STA 699+00.00

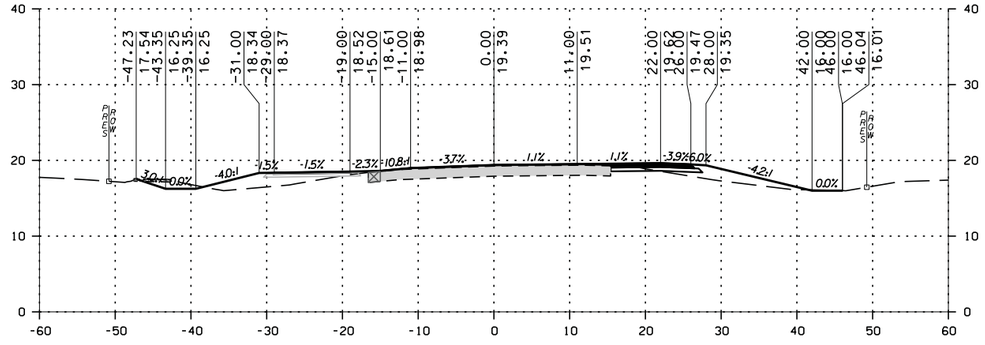
CUT VOL: 23.69 CU FT
FILL VOL: 56.59 CU FT



CUT AREA: 13.94 SQ FT
FILL AREA: 18.98 SQ FT

STA 700+50.00

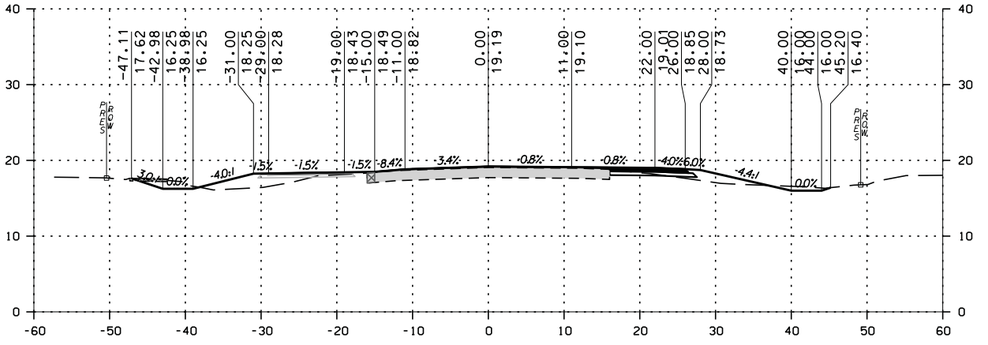
CUT VOL: 25.52 CU FT
FILL VOL: 40.57 CU FT



CUT AREA: 9.78 SQ FT
FILL AREA: 36.62 SQ FT

STA 698+50.00

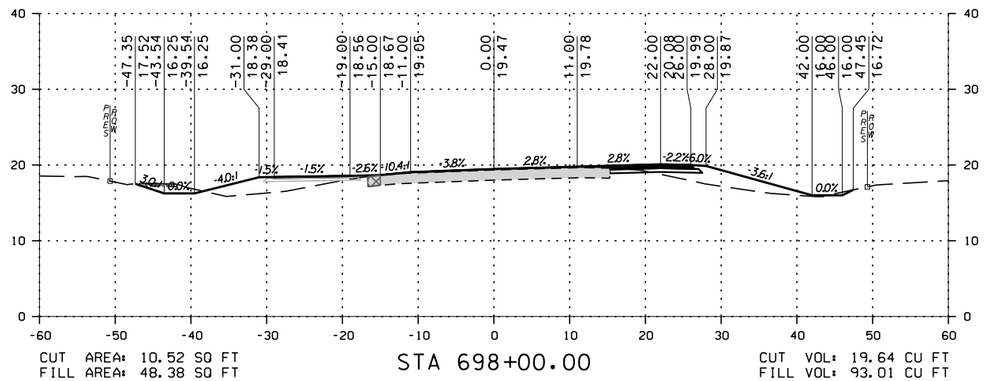
CUT VOL: 18.80 CU FT
FILL VOL: 78.71 CU FT



CUT AREA: 13.62 SQ FT
FILL AREA: 24.83 SQ FT

STA 700+00.00

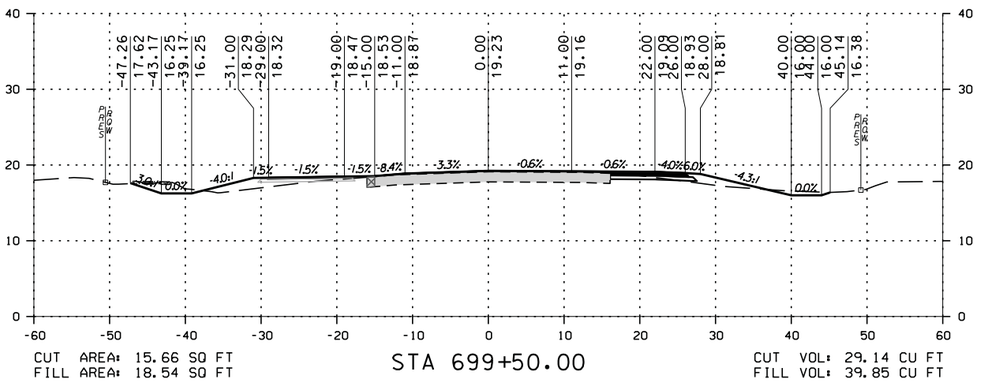
CUT VOL: 27.11 CU FT
FILL VOL: 40.16 CU FT



CUT AREA: 10.52 SQ FT
FILL AREA: 48.38 SQ FT

STA 698+00.00

CUT VOL: 19.64 CU FT
FILL VOL: 93.01 CU FT



CUT AREA: 15.66 SQ FT
FILL AREA: 18.54 SQ FT

STA 699+50.00

CUT VOL: 29.14 CU FT
FILL VOL: 39.85 CU FT

STA 698+00.00 TO STA 700+50.00

SHEET NO. : 163

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY: THOMPSON ENGINEERING, INC. 7351 WEST BEACH BLVD., SUITE 203 ORANGE BEACH, ALABAMA 36561 (251) 378-6990

CHECKED BY: --
APPROVED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30' VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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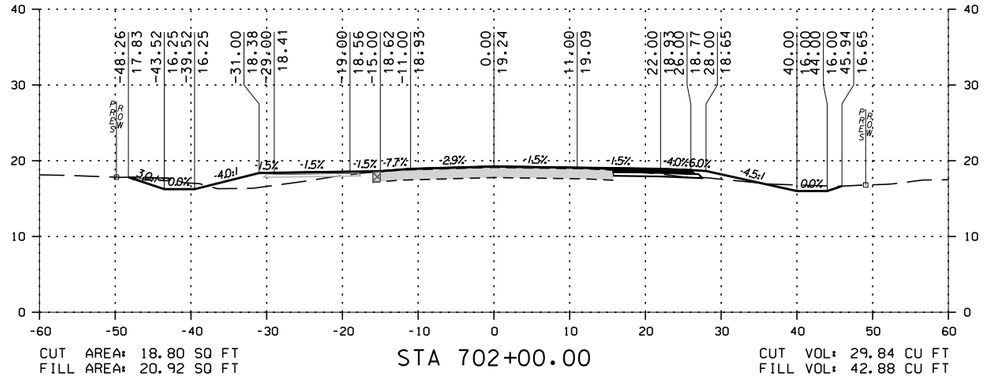
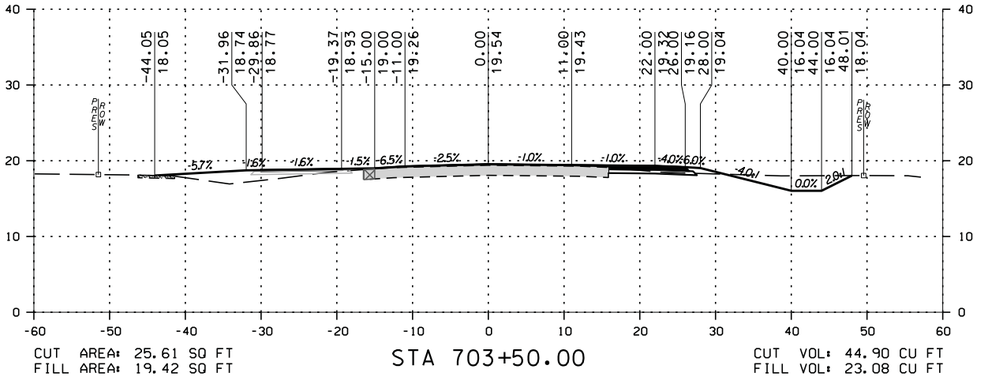
150_XSH.dgn
2021.12.31 14:21:58



CUT AREA: 18.80 SQ FT
FILL AREA: 20.92 SQ FT

STA 702+00.00

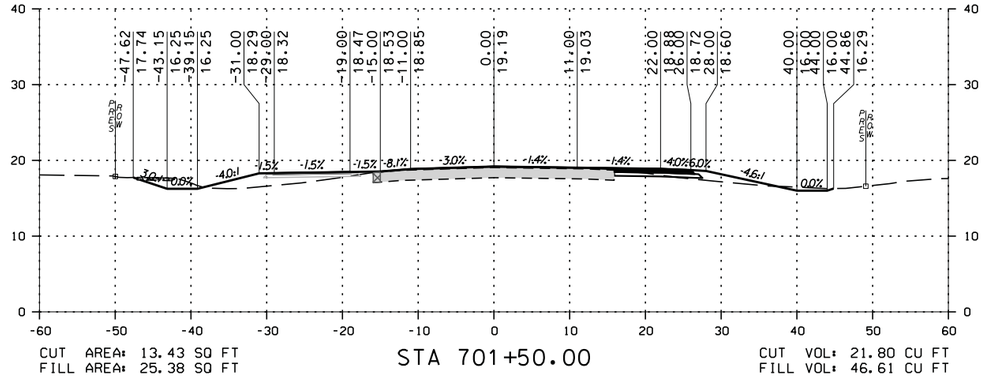
CUT VOL: 29.84 CU FT
FILL VOL: 42.88 CU FT



CUT AREA: 25.61 SQ FT
FILL AREA: 19.42 SQ FT

STA 703+50.00

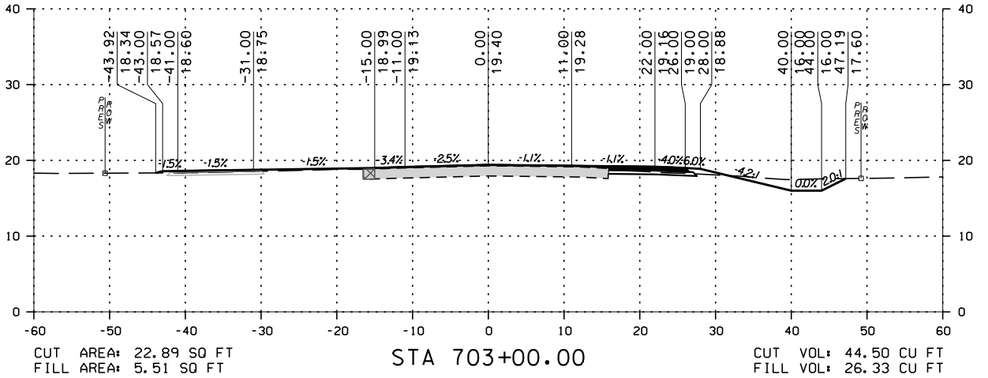
CUT VOL: 44.90 CU FT
FILL VOL: 23.08 CU FT



CUT AREA: 13.43 SQ FT
FILL AREA: 25.38 SQ FT

STA 701+50.00

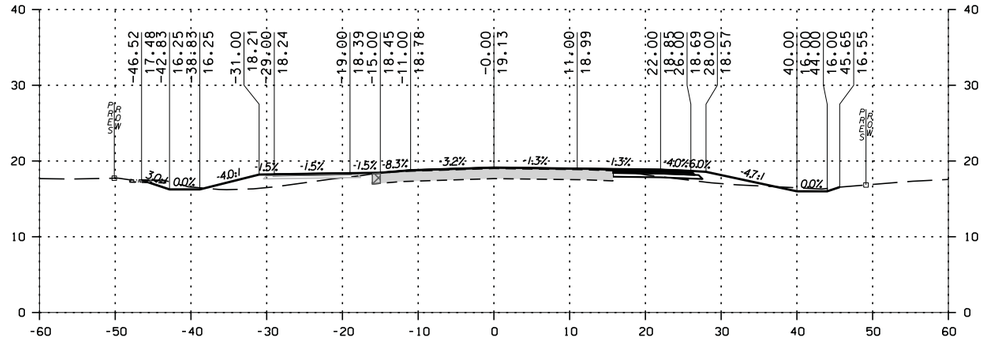
CUT VOL: 21.80 CU FT
FILL VOL: 46.61 CU FT



CUT AREA: 22.89 SQ FT
FILL AREA: 5.51 SQ FT

STA 703+00.00

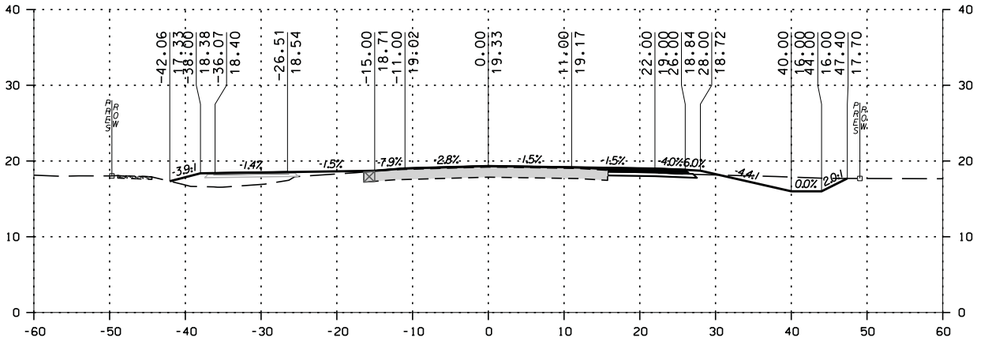
CUT VOL: 44.50 CU FT
FILL VOL: 26.33 CU FT



CUT AREA: 10.12 SQ FT
FILL AREA: 24.96 SQ FT

STA 701+00.00

CUT VOL: 22.27 CU FT
FILL VOL: 40.69 CU FT



CUT AREA: 25.18 SQ FT
FILL AREA: 22.93 SQ FT

STA 702+50.00

CUT VOL: 40.72 CU FT
FILL VOL: 40.60 CU FT

STA 701+00.00 TO STA 703+50.00

SHEET NO. : 164

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
2151 NAUTICAL POINTE DRIVE, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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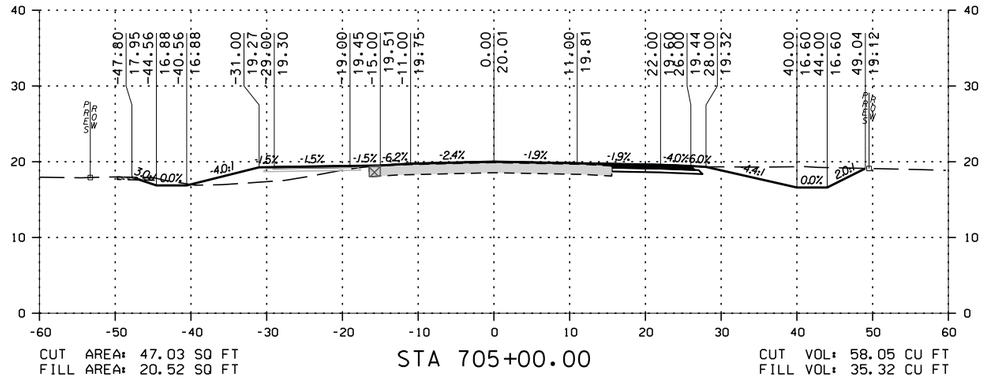
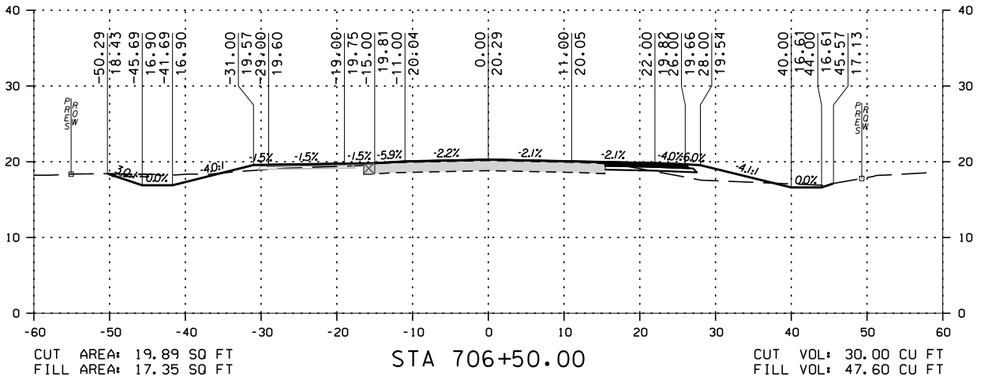
150_XSH.dgn
2021.12.31 14:21:59



CUT AREA: 47.03 SQ FT
FILL AREA: 20.52 SQ FT

STA 705+00.00

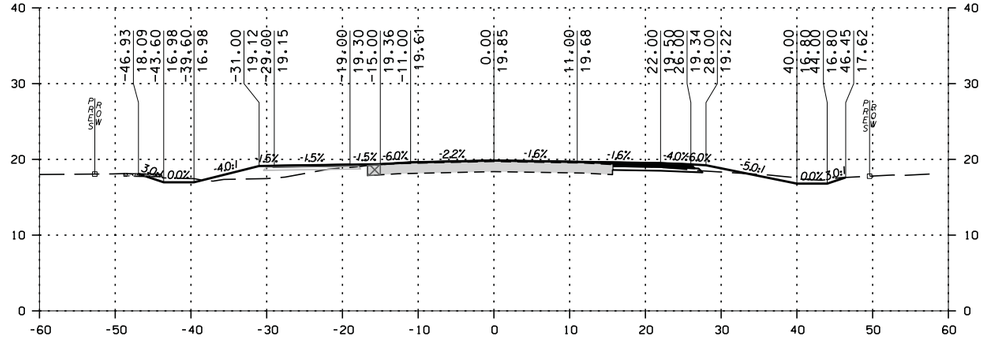
CUT VOL: 58.05 CU FT
FILL VOL: 35.32 CU FT



CUT AREA: 19.89 SQ FT
FILL AREA: 17.35 SQ FT

STA 706+50.00

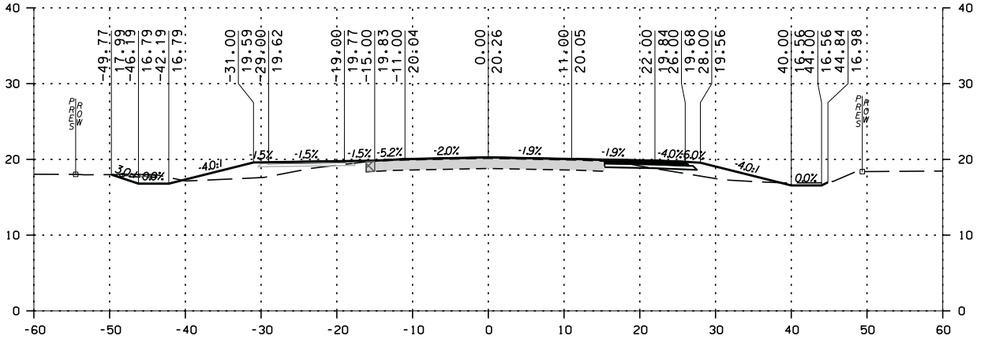
CUT VOL: 30.00 CU FT
FILL VOL: 47.60 CU FT



CUT AREA: 15.66 SQ FT
FILL AREA: 17.63 SQ FT

STA 704+50.00

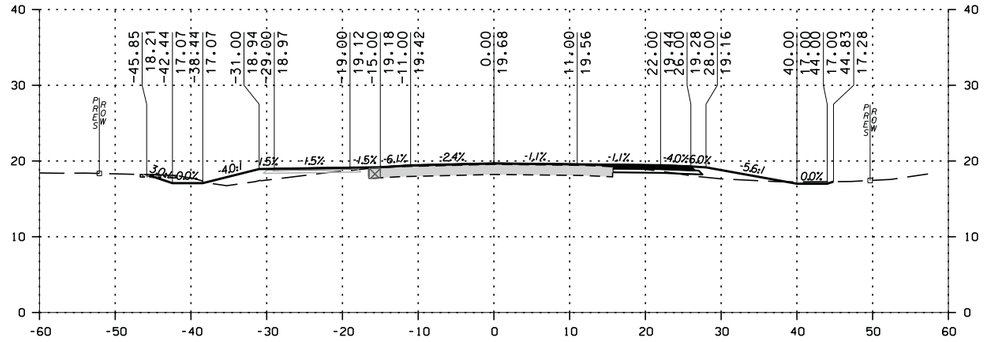
CUT VOL: 24.00 CU FT
FILL VOL: 37.80 CU FT



CUT AREA: 12.51 SQ FT
FILL AREA: 34.06 SQ FT

STA 706+00.00

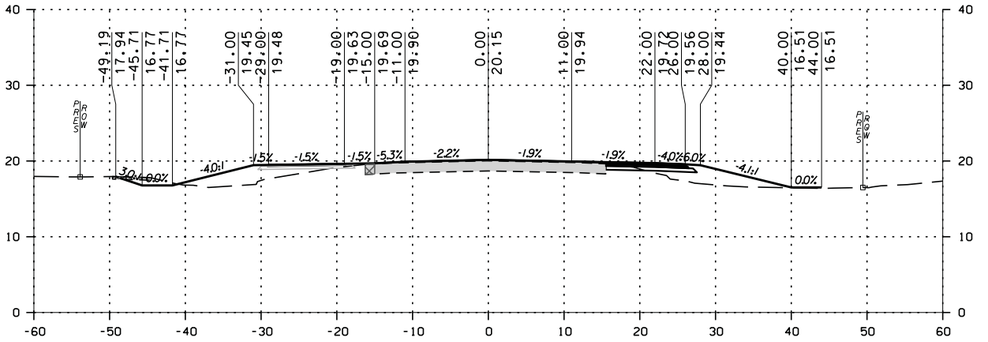
CUT VOL: 19.20 CU FT
FILL VOL: 76.28 CU FT



CUT AREA: 10.26 SQ FT
FILL AREA: 23.20 SQ FT

STA 704+00.00

CUT VOL: 33.21 CU FT
FILL VOL: 39.46 CU FT



CUT AREA: 8.22 SQ FT
FILL AREA: 48.32 SQ FT

STA 705+50.00

CUT VOL: 51.16 CU FT
FILL VOL: 63.75 CU FT

STA 704+00.00 TO STA 706+50.00

SHEET NO. : 165

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING
THOMPSON ENGINEERING, INC.
251 N. MCKENZIE ST., SUITE 202
FOLEY, ALABAMA 36535
(251) 378-6980

DRAWN BY: -- CHECKED BY: -- APPROVED BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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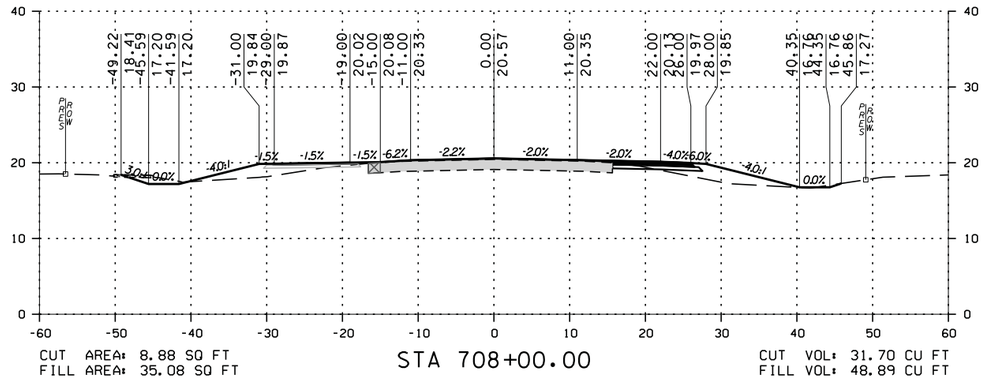
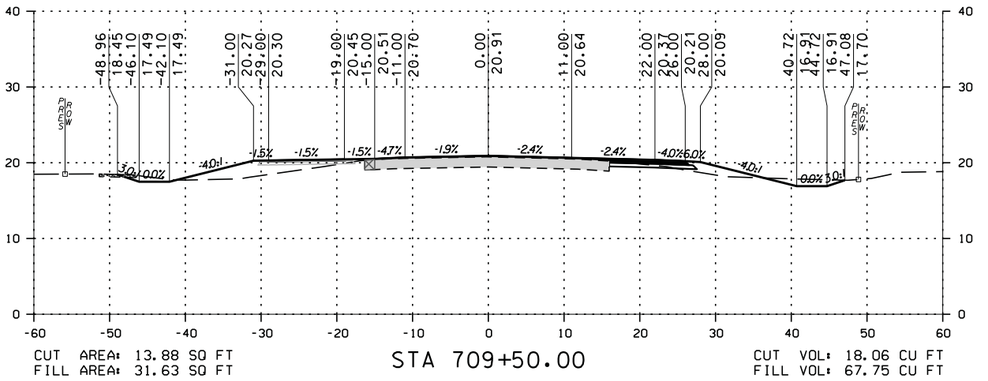
190_XSH.dgn
2021.12.31 14:12:00



CUT AREA: 8.88 SQ FT
FILL AREA: 35.08 SQ FT

STA 708+00.00

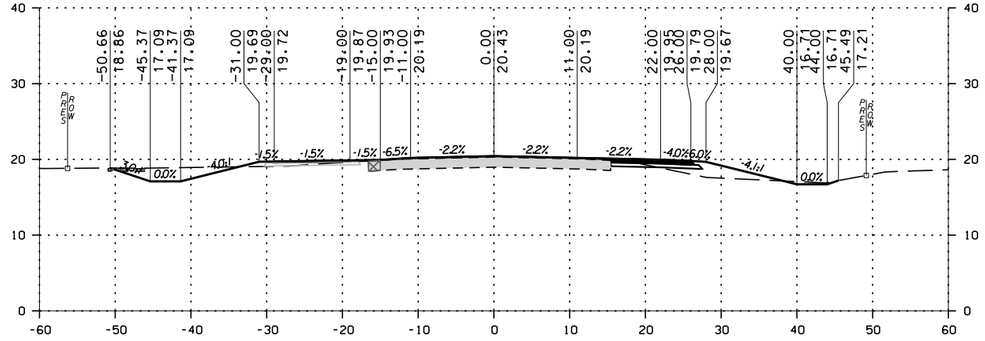
CUT VOL: 31.70 CU FT
FILL VOL: 48.89 CU FT



CUT AREA: 13.88 SQ FT
FILL AREA: 31.63 SQ FT

STA 709+50.00

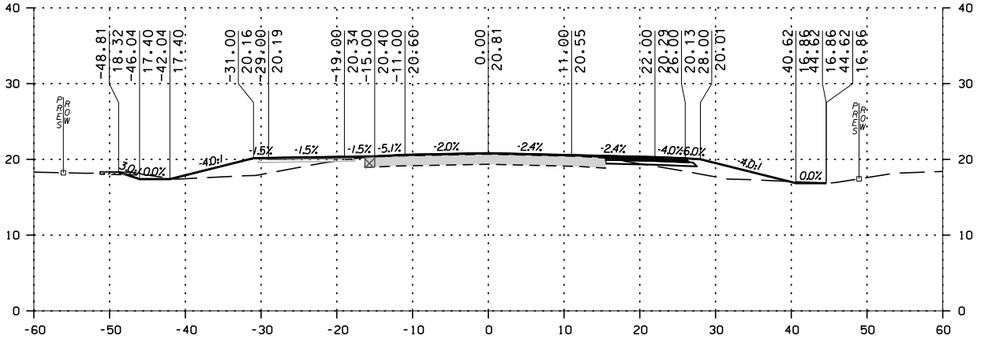
CUT VOL: 18.06 CU FT
FILL VOL: 67.75 CU FT



CUT AREA: 25.36 SQ FT
FILL AREA: 17.73 SQ FT

STA 707+50.00

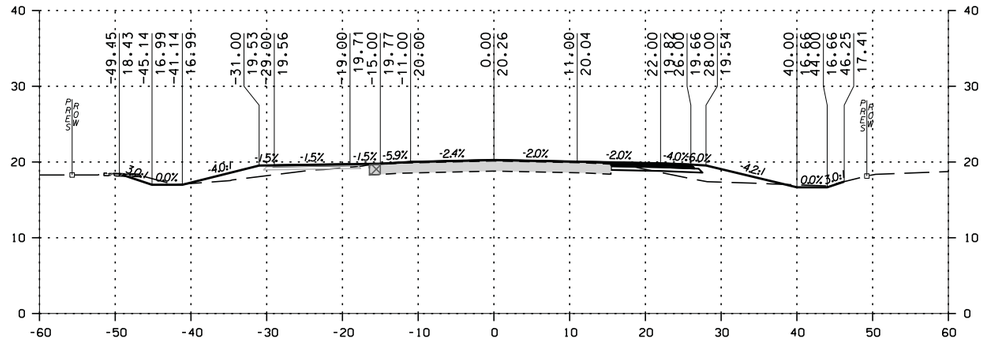
CUT VOL: 31.17 CU FT
FILL VOL: 43.63 CU FT



CUT AREA: 5.62 SQ FT
FILL AREA: 41.54 SQ FT

STA 709+00.00

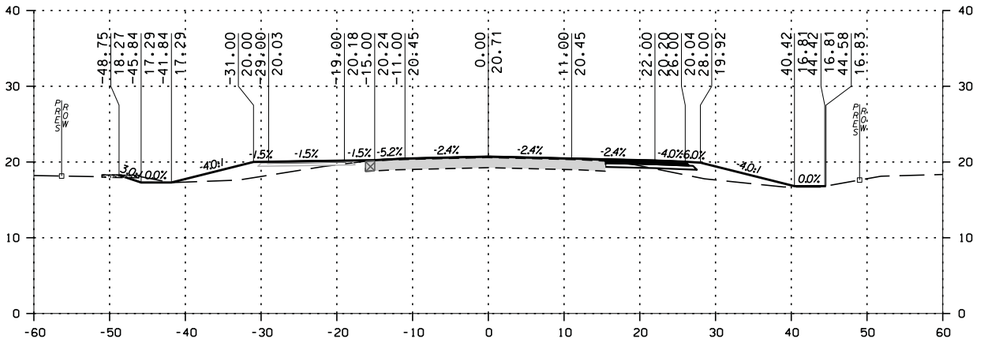
CUT VOL: 10.69 CU FT
FILL VOL: 76.63 CU FT



CUT AREA: 8.31 SQ FT
FILL AREA: 29.40 SQ FT

STA 707+00.00

CUT VOL: 26.11 CU FT
FILL VOL: 43.28 CU FT



CUT AREA: 5.93 SQ FT
FILL AREA: 41.23 SQ FT

STA 708+50.00

CUT VOL: 13.71 CU FT
FILL VOL: 70.65 CU FT

STA 707+00.00 TO STA 709+50.00

SHEET NO. : 166

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
REVISION NO. : --
DATE : DEC 2021

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

THOMPSON ENGINEERING, INC.
251 McMEEKIN AVENUE, SUITE A
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

DRAWN BY: --
CHECKED BY: --
APPROVED BY: --
PREPARED BY :

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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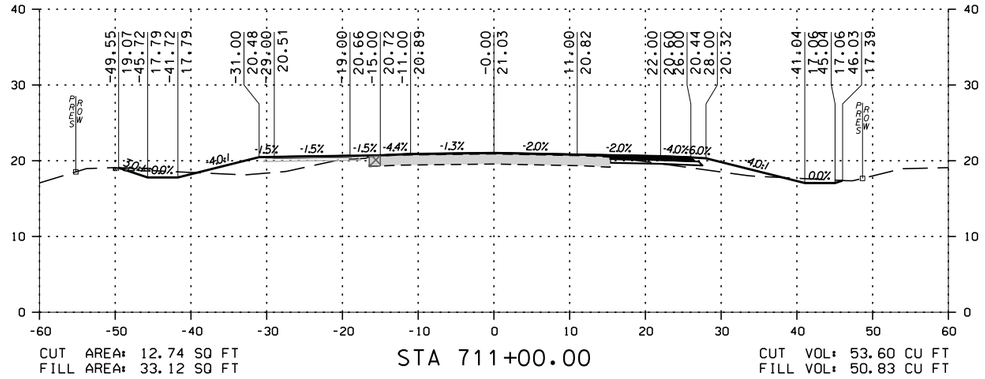
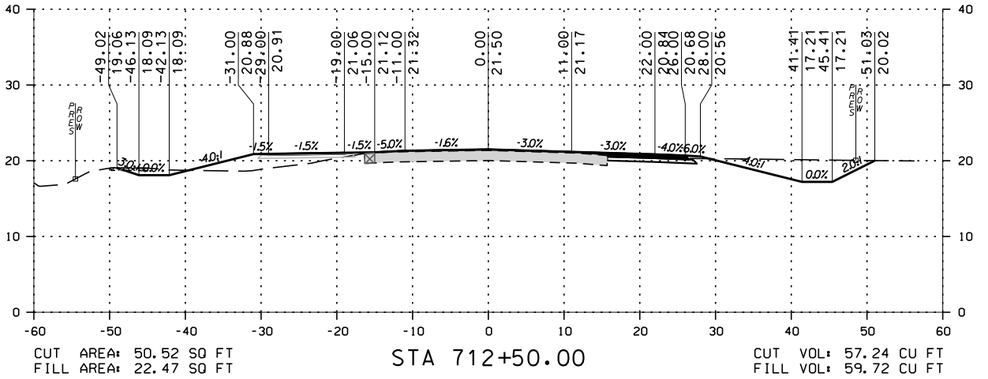
2021.12.31 14:22:00
190_XSH.dgn



CUT AREA: 12.74 SQ FT
FILL AREA: 33.12 SQ FT

STA 711+00.00

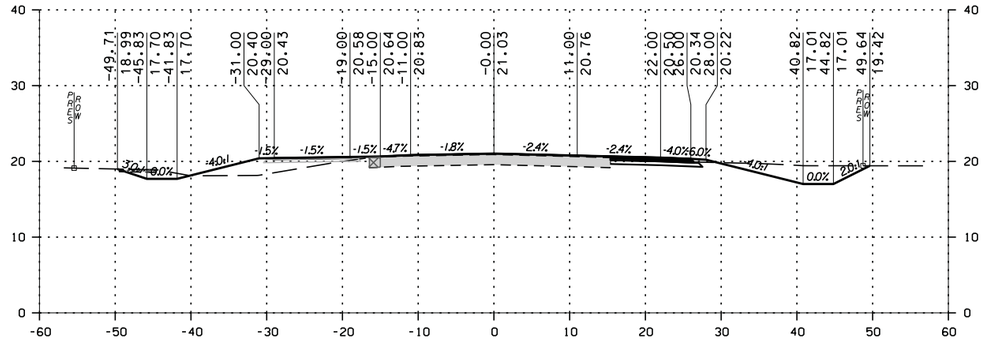
CUT VOL: 53.60 CU FT
FILL VOL: 50.83 CU FT



CUT AREA: 50.52 SQ FT
FILL AREA: 22.47 SQ FT

STA 712+50.00

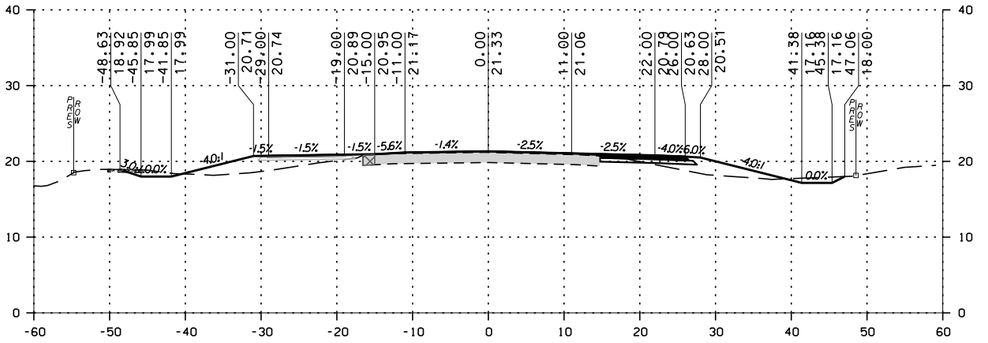
CUT VOL: 57.24 CU FT
FILL VOL: 59.72 CU FT



CUT AREA: 45.15 SQ FT
FILL AREA: 21.77 SQ FT

STA 710+50.00

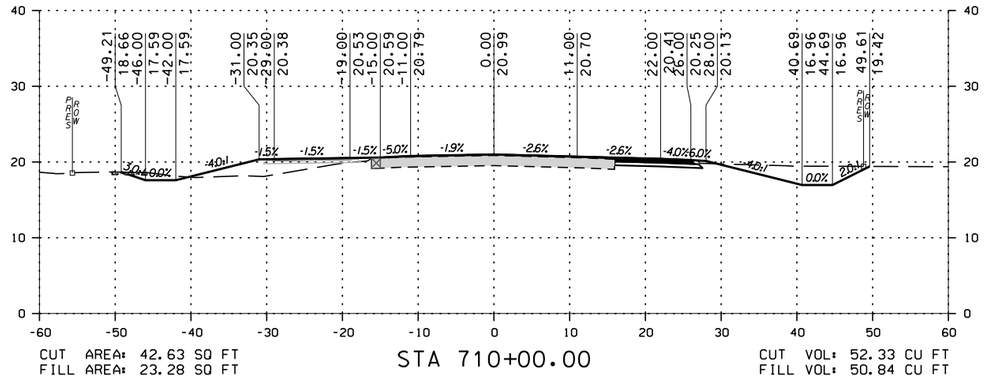
CUT VOL: 81.28 CU FT
FILL VOL: 41.71 CU FT



CUT AREA: 11.30 SQ FT
FILL AREA: 42.03 SQ FT

STA 712+00.00

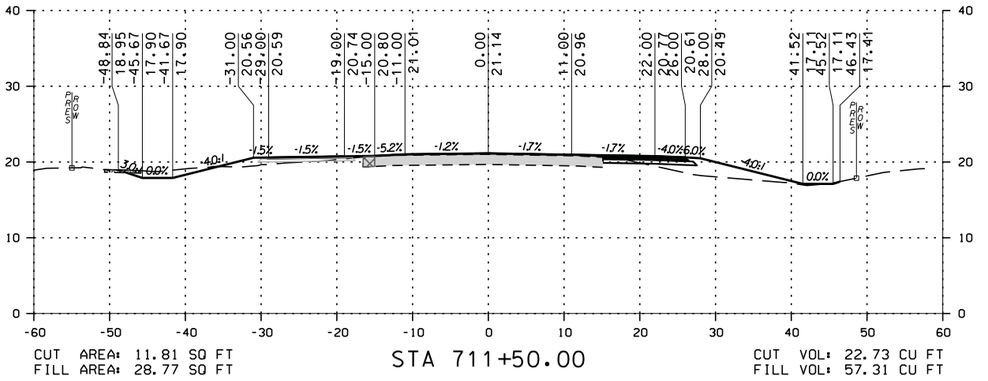
CUT VOL: 21.40 CU FT
FILL VOL: 65.56 CU FT



CUT AREA: 42.63 SQ FT
FILL AREA: 23.28 SQ FT

STA 710+00.00

CUT VOL: 52.33 CU FT
FILL VOL: 50.84 CU FT



CUT AREA: 11.81 SQ FT
FILL AREA: 28.77 SQ FT

STA 711+50.00

CUT VOL: 22.73 CU FT
FILL VOL: 57.31 CU FT

STA 710+00.00 TO STA 712+50.00

SHEET NO. : 167

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

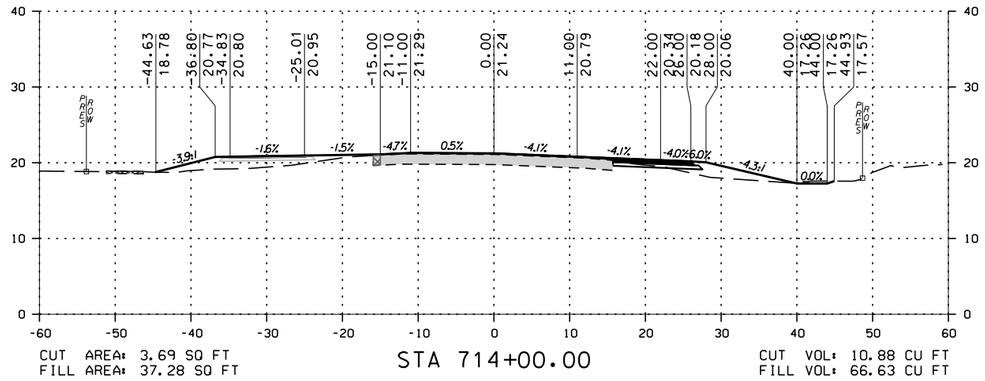
THOMPSON ENGINEERING, INC.
4334 MAIN STREET, SUITE
ORANGE BEACH, ALABAMA 36561
(251) 370-6990

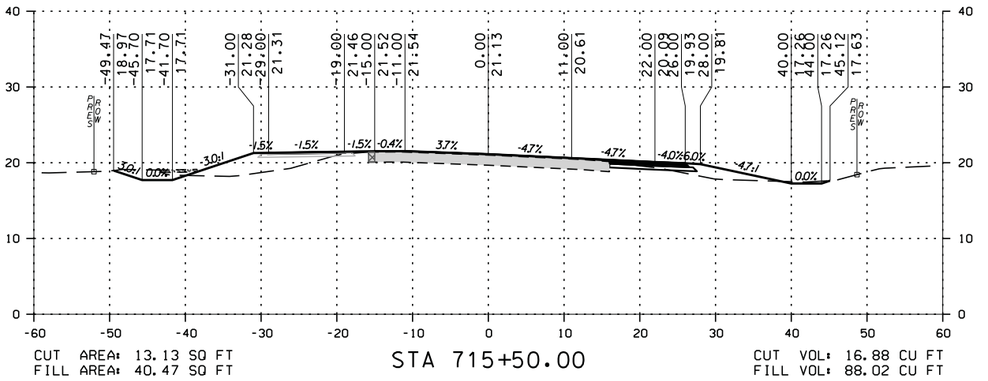
DRAWN BY: --
CHECKED BY: --
APPROVED BY: --
DATE:

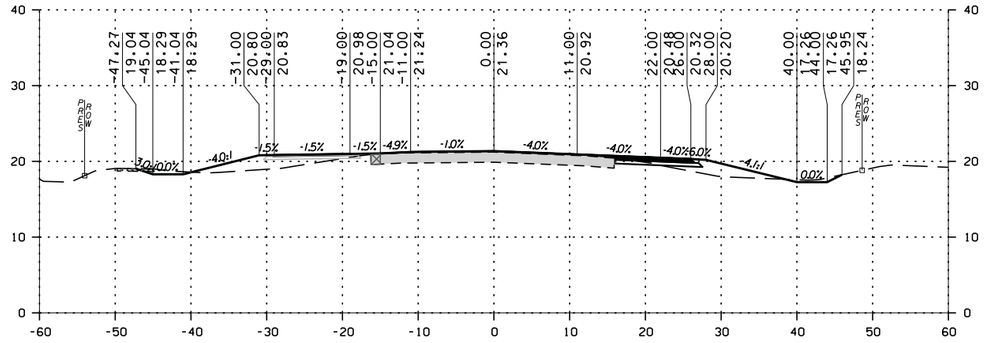
SCALE: HORIZ 1"=30'
VERT 1"=5'

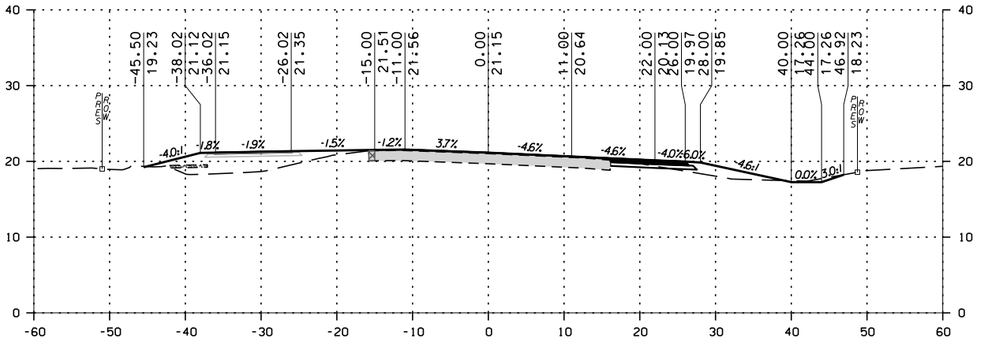
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

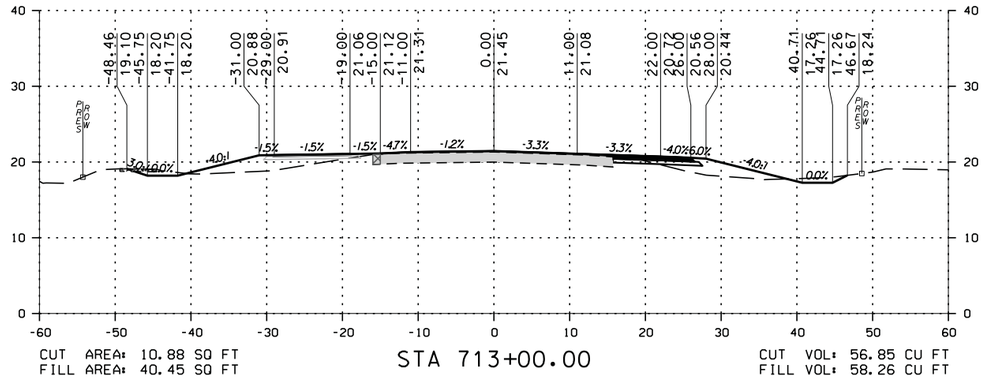
THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE USED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THOMPSON ENGINEERING. THE DESIGNS ARE NOT TO BE ASSIGNED TO OTHERS, OR USED, UNDER ANY CIRCUMSTANCES, AS BASIS TO BID, CONSTRUCT OR LEASE, EXCEPT UNDER STATE AUTHORIZATION.

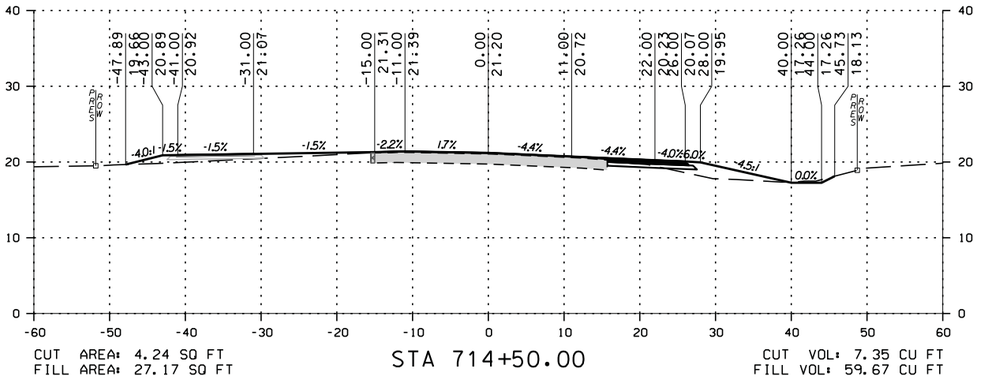












STA 713+00.00 TO STA 715+50.00

SHEET NO. : 168

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
25351 ARCH ST., SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

DRAWN BY: -- CHECKED BY: -- APPROVED BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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2021.12.31 14:22:02
190_XSH.dgn

STA 716+00.00 TO STA 717+50.00

SHEET NO. : 169

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085

DATE : DEC 2021

REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
7351 WEST FRONT STREET, SUITE C
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

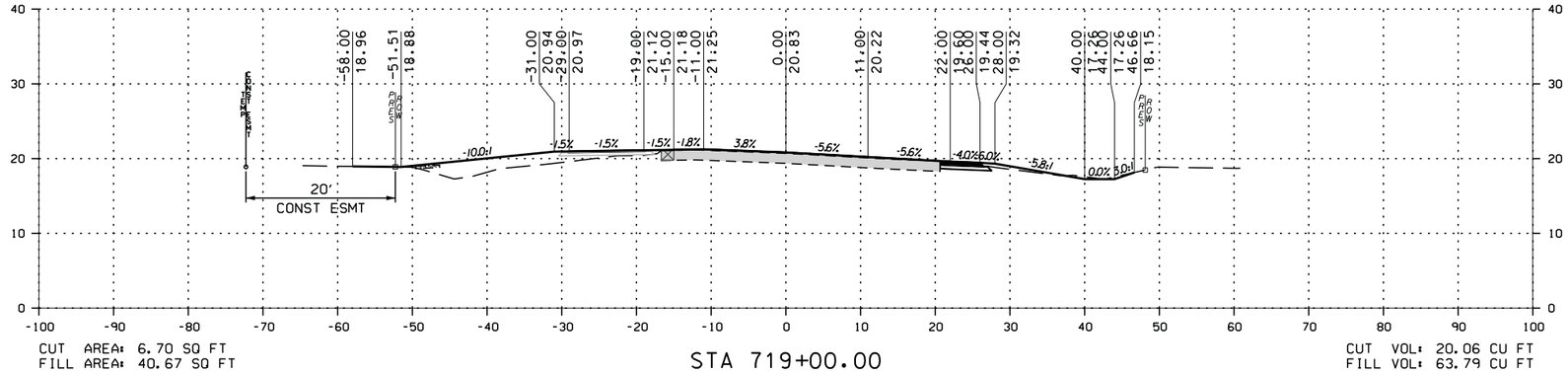
DRAWN BY: -- CHECKED BY: -- APPROVED BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE USED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THOMPSON ENGINEERING. THE DRAWINGS ARE NOT TO BE SCALED TO LOCATE ACTUAL MEASUREMENTS. THE CONTRACTOR IS REQUIRED TO APPROVE THE USE, WHICH WOULD BE SUBJECT TO LEGAL ACTION WHEN FOUND.

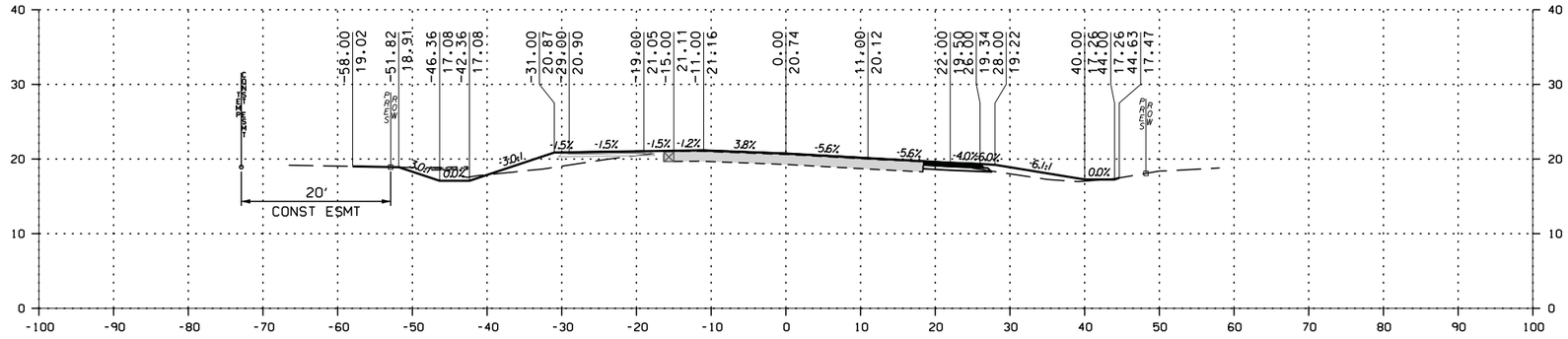
2021.12.31 14:22:02 190_XSH.dgn



CUT AREA: 6.70 SQ FT
FILL AREA: 40.67 SQ FT

STA 719+00.00

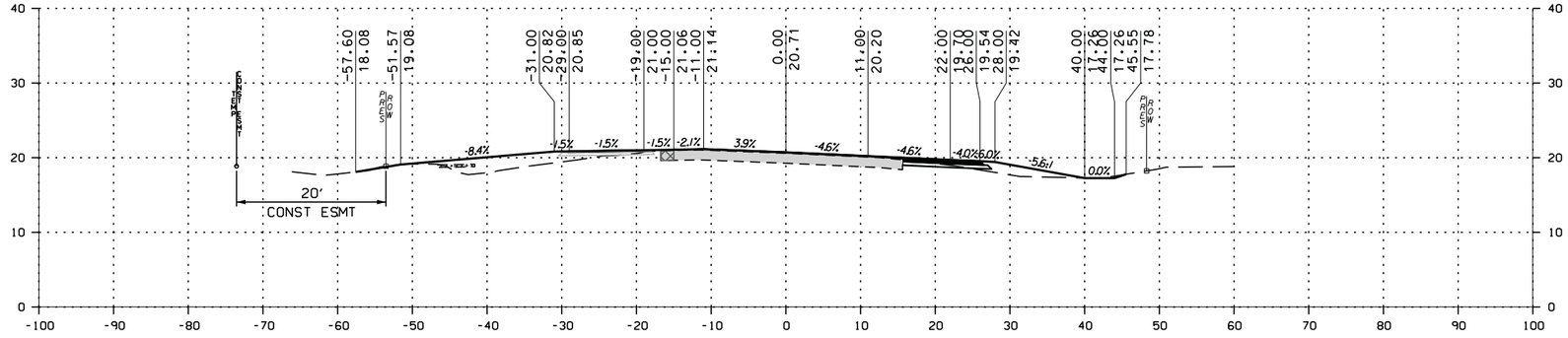
CUT VOL: 20.06 CU FT
FILL VOL: 63.79 CU FT



CUT AREA: 14.96 SQ FT
FILL AREA: 28.22 SQ FT

STA 718+50.00

CUT VOL: 18.62 CU FT
FILL VOL: 67.20 CU FT



CUT AREA: 5.15 SQ FT
FILL AREA: 44.36 SQ FT

STA 718+00.00

CUT VOL: 17.37 CU FT
FILL VOL: 78.31 CU FT

STA 718+00.00 TO STA 719+00.00

SHEET NO. : 170

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
3531 MAGNOLIA STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

APPROVED BY: --
CHECKED BY: --
DRAWN BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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2021.12.31 14:12:03
190_XSH.dgn

STA 719+50.00 TO STA 720+50.00

SHEET NO. : 171

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
251 N. MCKENZIE STREET, SUITE 202
FOLEY, ALABAMA 36535
(251) 970-5202
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

DRAWN BY: -- | CHECKED BY: -- | APPROVED BY: -- | DATE: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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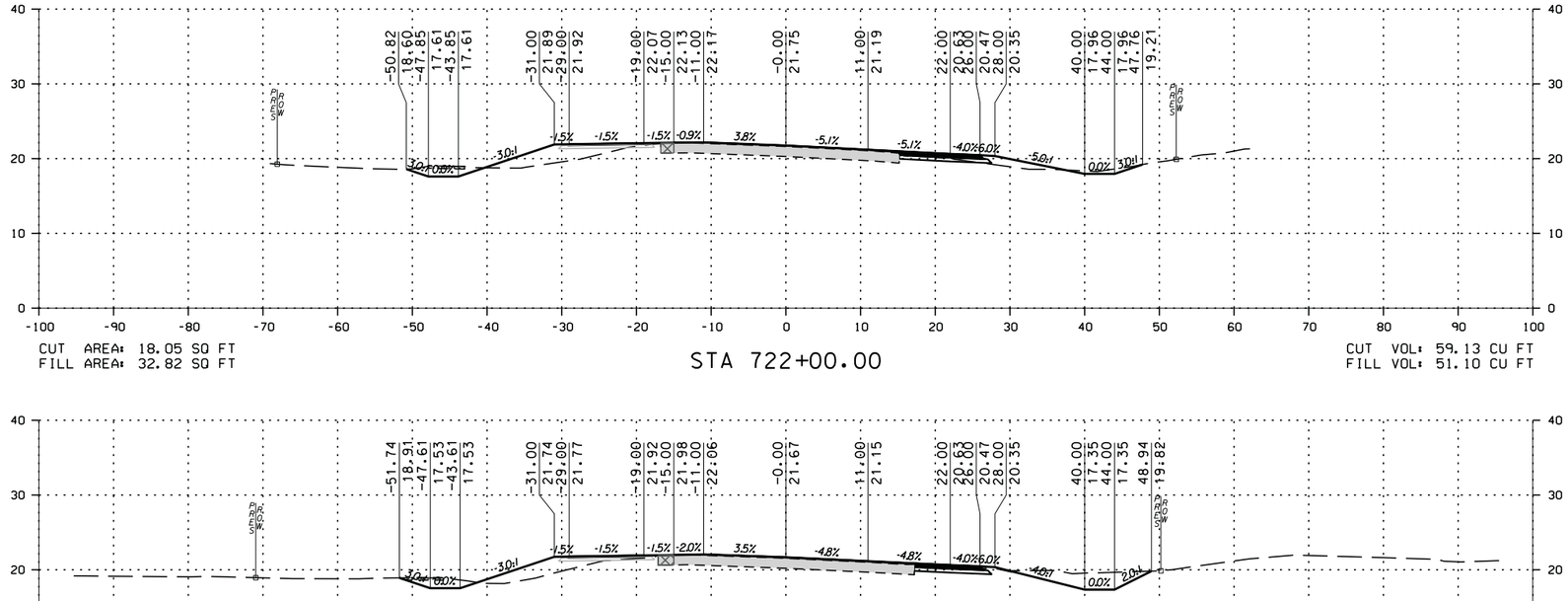
190_XSH.dgn
2021.12.31 14:22:04



CUT AREA: 18.05 SQ FT
FILL AREA: 32.82 SQ FT

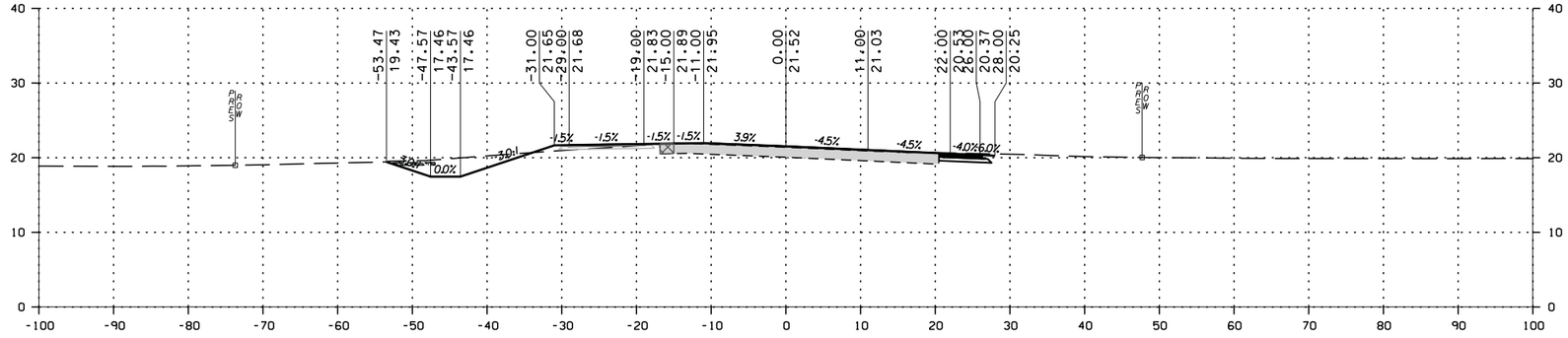
STA 722+00.00

CUT VOL: 59.13 CU FT
FILL VOL: 51.10 CU FT

CUT AREA: 45.81 SQ FT
FILL AREA: 22.37 SQ FT

STA 721+50.00

CUT VOL: 78.24 CU FT
FILL VOL: 22.90 CU FT



CUT AREA: 38.70 SQ FT
FILL AREA: 2.37 SQ FT

STA 721+00.00

CUT VOL: 56.88 CU FT
FILL VOL: 26.69 CU FT

STA 721+00.00 TO STA 722+00.00

SHEET NO. : 172

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
251 MAGNOLIA AVENUE, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 370-6990

DRAWN BY: --
CHECKED BY: --
APPROVED BY: --

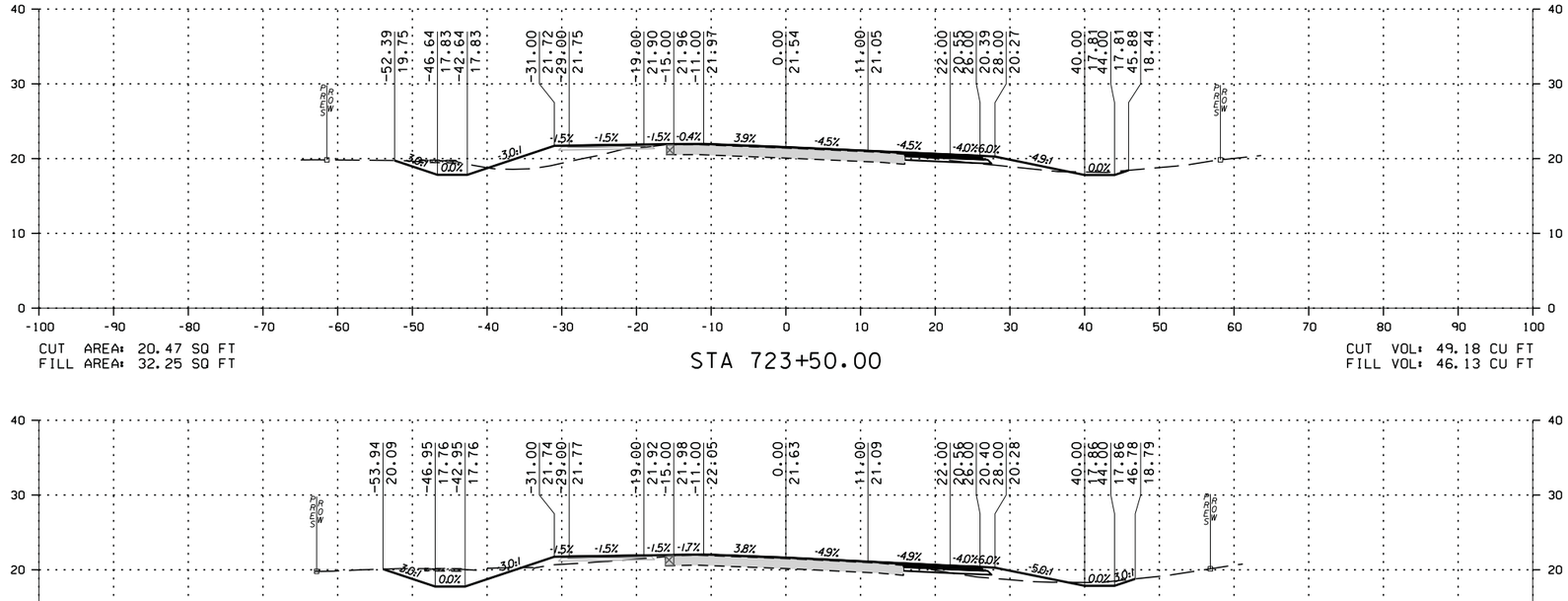
SCALE: HORIZ 1"=30'
VERT 1"=5'

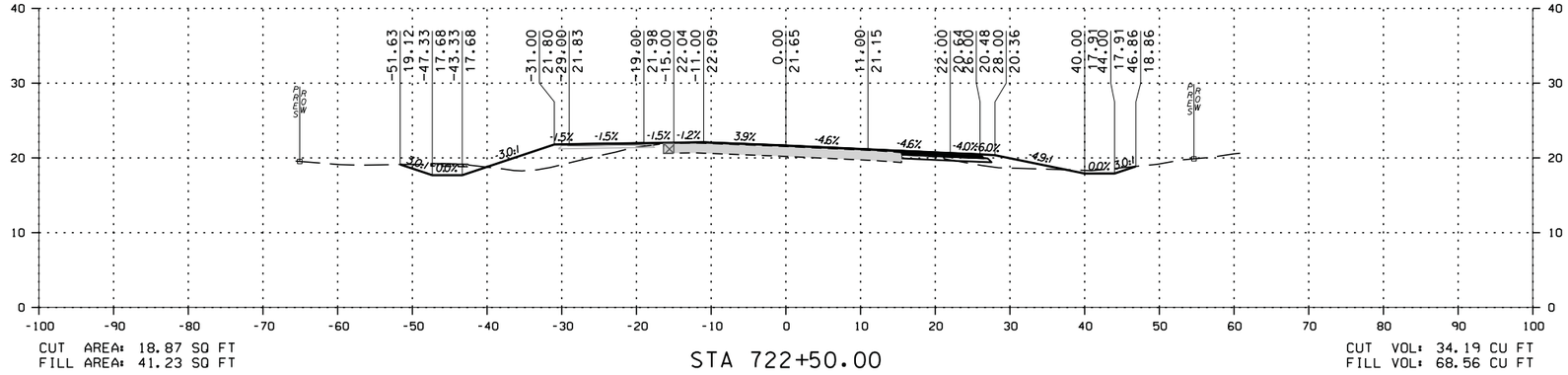
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE USED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THOMPSON ENGINEERING. IT IS ISSUED TO AUTHORIZED PERSONNEL FOR REVIEW AND APPROVAL ONLY. ANY UNAUTHORIZED USE, UNAUTHORIZED REVISIONS OR CONVERSION TO ANY OTHER FORMAT SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO THE ENGINEER. ANY UNAUTHORIZED USE SHALL OBLIGATE THE USER TO INDEMNIFY AND HOLD HARMLESS THE ENGINEER FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES INCLUDING ATTORNEY'S FEES ARISING OUT OF OR RESULTING THEREFROM. ANY REVISIONS TO THE DRAWINGS MUST BE APPROVED IN WRITING BY THE ENGINEER.

ORANGE BEACH ALABAMA

190_XSH.dgn
2021.12.31 14:22:04





STA 722+50.00 TO STA 723+50.00

SHEET NO. : 173

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251 McMEANS AVENUE, SUITE 102
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

DRAWN BY: -- CHECKED BY: -- APPROVED BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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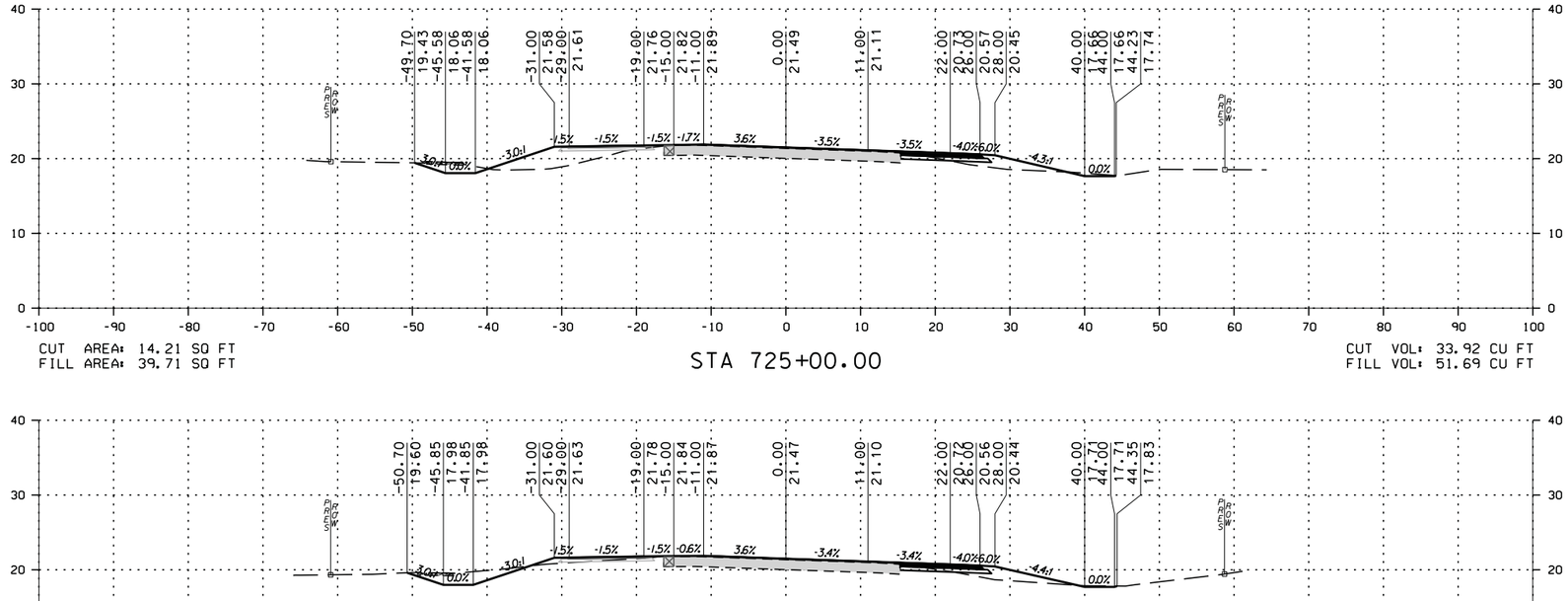
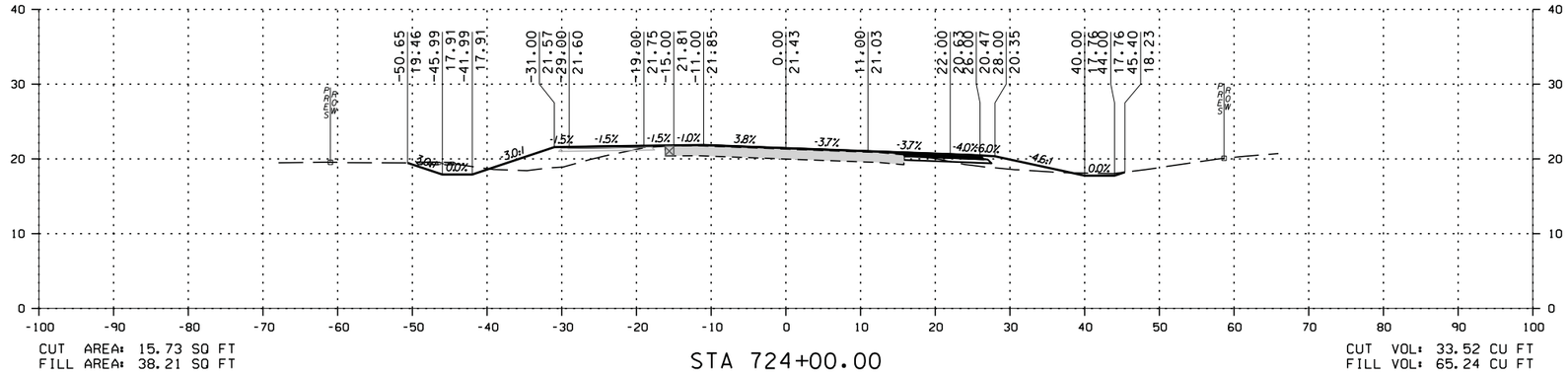
2021.12.31 14:22:05
190_XSH.dgn





STA 724+00.00 TO STA 725+00.00

SHEET NO. : 174

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
REVISION NO. : --
DATE : DEC 2021

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

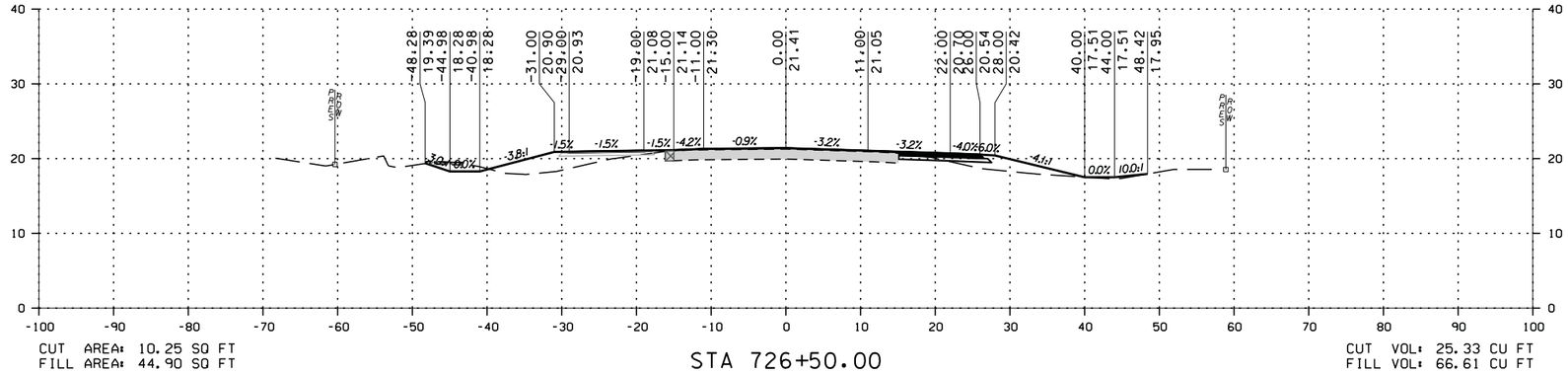
DRAWN BY: --
CHECKED BY: --
APPROVED BY: --
DATE: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

THIS DRAWING REPRESENTS DESIGNS PREPARED BY THOMPSON ENGINEERING FOR SPECIFIC USE ON THIS PROJECT AND IS NOT TO BE USED, REPRODUCED, OR ALTERED WITHOUT THE EXPRESS WRITTEN CONSENT OF THOMPSON ENGINEERING. ANY UNAUTHORIZED USE SHALL BE SUBJECT TO LEGAL ACTION UNDER STATE AND FEDERAL LAW.

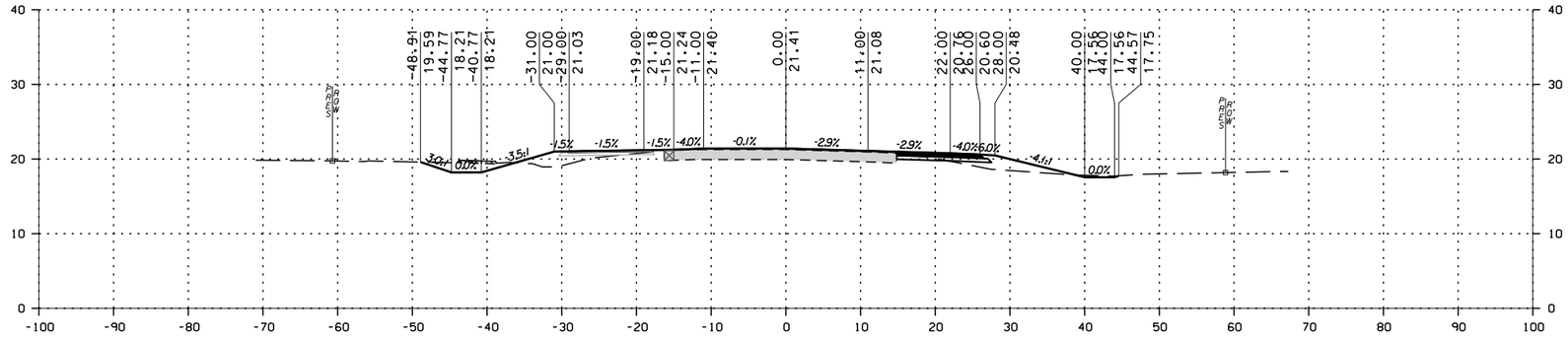
2021.12.31 14:22:08
190_XSH.dgn



CUT AREA: 10.25 SQ FT
FILL AREA: 44.90 SQ FT

STA 726+50.00

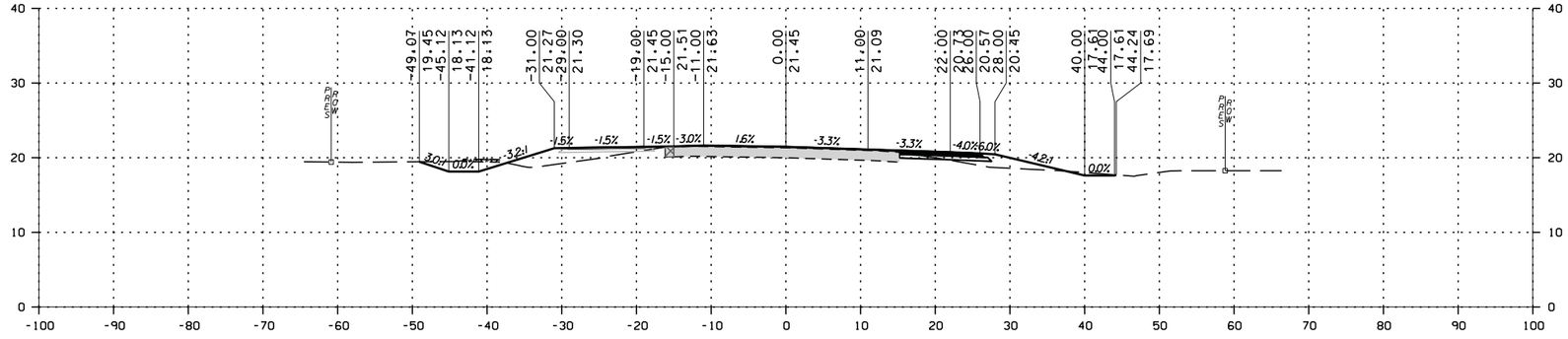
CUT VOL: 25.33 CU FT
FILL VOL: 66.61 CU FT



CUT AREA: 17.10 SQ FT
FILL AREA: 27.04 SQ FT

STA 726+00.00

CUT VOL: 31.30 CU FT
FILL VOL: 54.97 CU FT



CUT AREA: 16.70 SQ FT
FILL AREA: 32.33 SQ FT

STA 725+50.00

CUT VOL: 28.62 CU FT
FILL VOL: 66.70 CU FT

STA 725+50.00 TO STA 726+50.00

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

SHEET NO. : 175

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
3531 MAPLE STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 370-6990

DRAWN BY: -- CHECKED BY: -- APPROVED BY: -- DATE : DEC 2021 JOB NO. : 20-1101-0085 REVISION NO. : --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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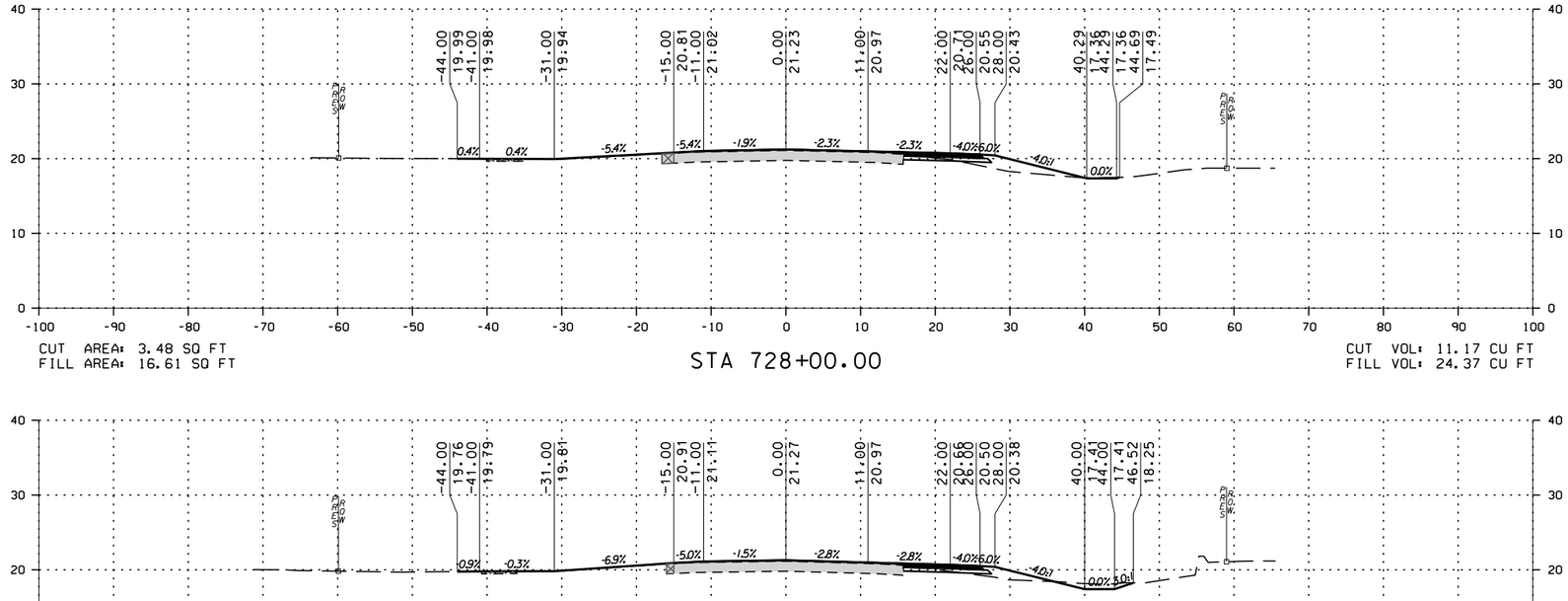
2021.12.31 14:12:09
190_XSH.dgn



CUT AREA: 3.48 SQ FT
FILL AREA: 16.61 SQ FT

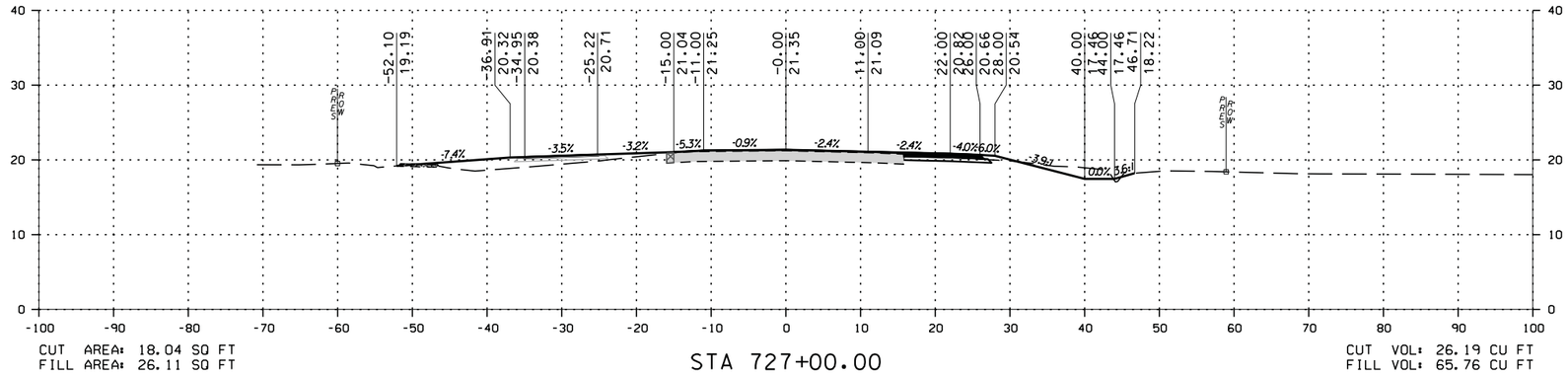
STA 728+00.00

CUT VOL: 11.17 CU FT
FILL VOL: 24.37 CU FT

CUT AREA: 8.58 SQ FT
FILL AREA: 9.71 SQ FT

STA 727+50.00

CUT VOL: 24.65 CU FT
FILL VOL: 33.17 CU FT



CUT AREA: 18.04 SQ FT
FILL AREA: 26.11 SQ FT

STA 727+00.00

CUT VOL: 26.19 CU FT
FILL VOL: 65.76 CU FT

STA 727+00.00 TO STA 728+00.00

SHEET NO. : 176

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
251 N. MAY STREET, SUITE 101
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

DRAWN BY: -- | CHECKED BY: -- | APPROVED BY: -- | DATE: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:

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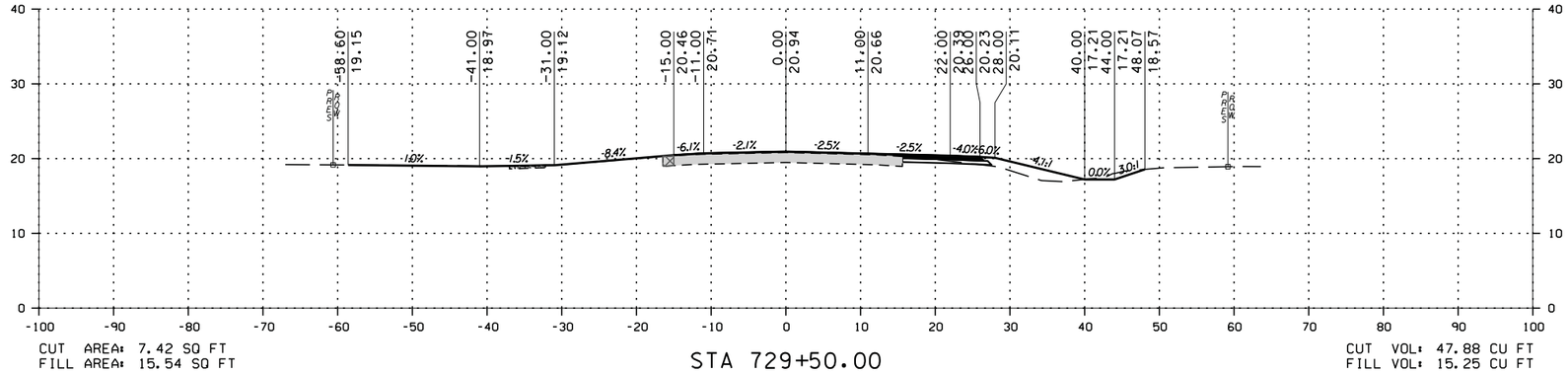
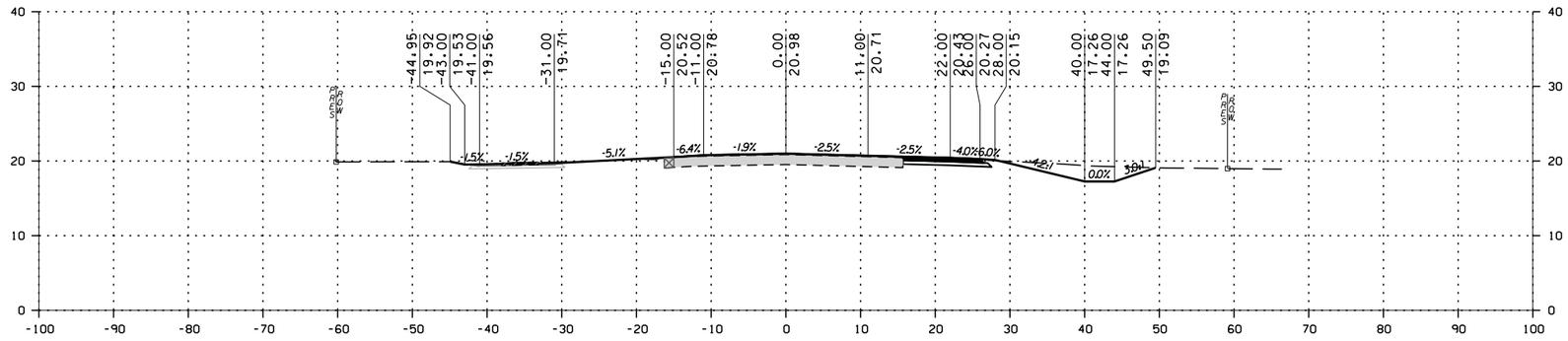
190_XSH.dgn
2021.12.31 14:22:09



CUT AREA: 7.42 SQ FT
FILL AREA: 15.54 SQ FT

STA 729+50.00

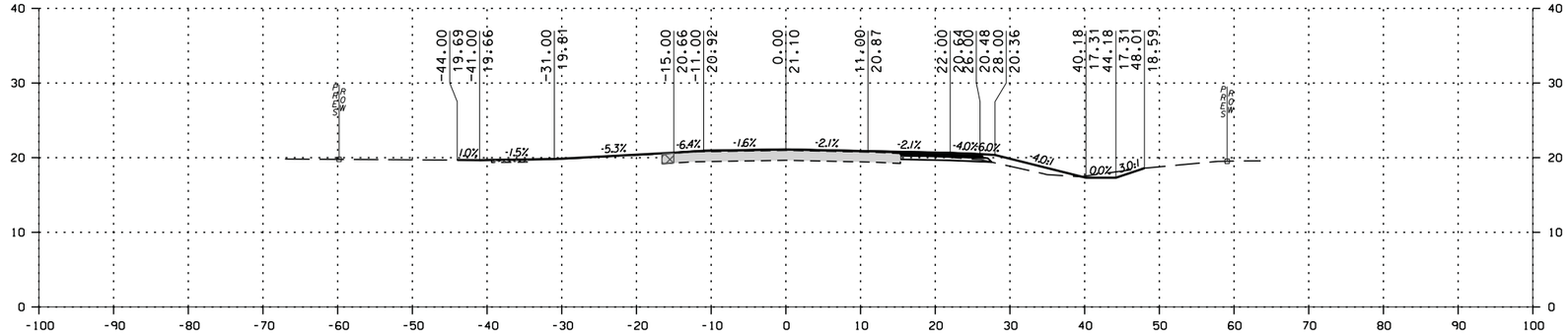
CUT VOL: 47.88 CU FT
FILL VOL: 15.25 CU FT



CUT AREA: 44.29 SQ FT
FILL AREA: 0.93 SQ FT

STA 729+00.00

CUT VOL: 49.56 CU FT
FILL VOL: 11.33 CU FT



CUT AREA: 9.24 SQ FT
FILL AREA: 11.31 SQ FT

STA 728+50.00

CUT VOL: 11.77 CU FT
FILL VOL: 25.85 CU FT

STA 728+50.00 TO STA 729+50.00

SHEET NO. : 177

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
3531 MAGNOLIA STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

APPROVED BY: --
CHECKED BY: --
DRAWN BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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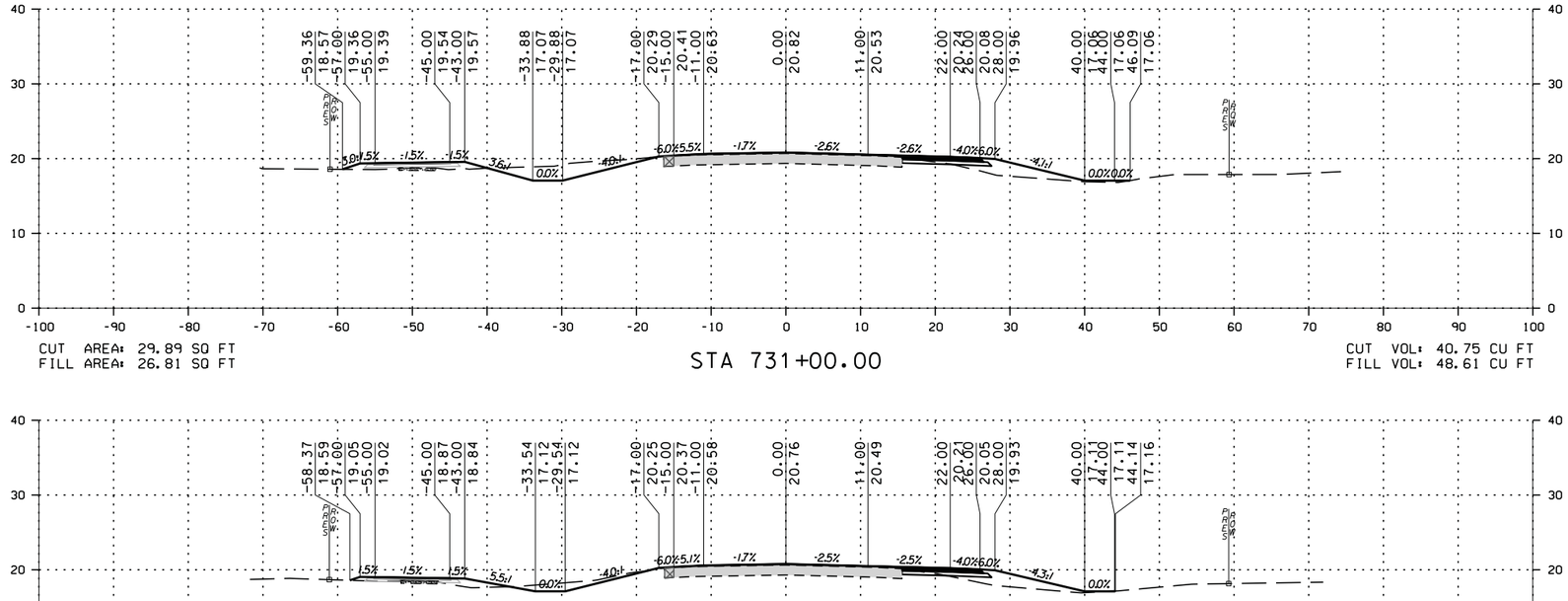
2021.12.31 141210

190_XSH.dgn



CUT AREA: 29.89 SQ FT
FILL AREA: 26.81 SQ FT

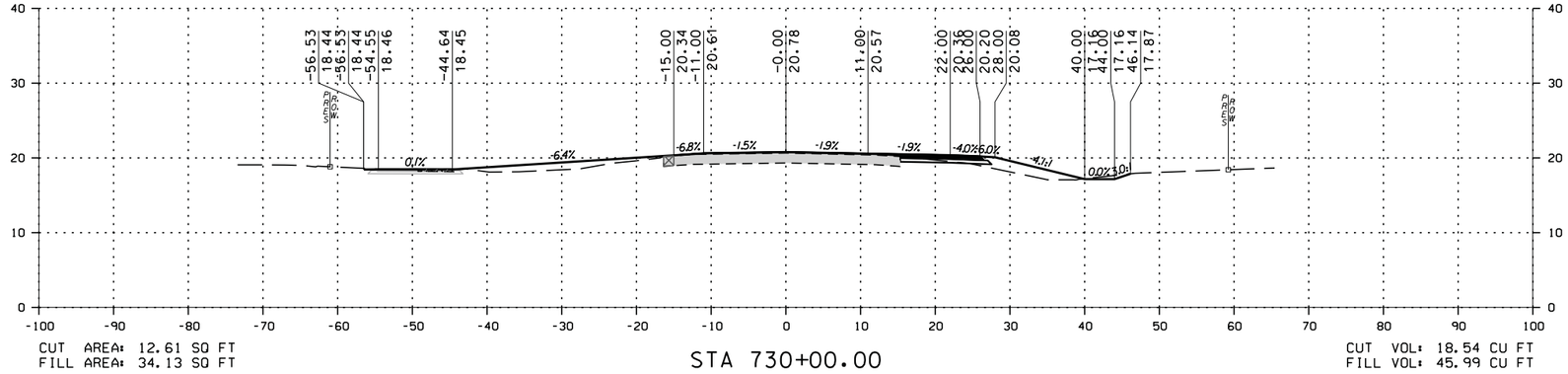
STA 731+00.00

CUT VOL: 40.75 CU FT
FILL VOL: 48.61 CU FT

CUT AREA: 14.12 SQ FT
FILL AREA: 25.69 SQ FT

STA 730+50.00

CUT VOL: 24.75 CU FT
FILL VOL: 55.39 CU FT



CUT AREA: 12.61 SQ FT
FILL AREA: 34.13 SQ FT

STA 730+00.00

CUT VOL: 18.54 CU FT
FILL VOL: 45.99 CU FT

STA 730+00.00 TO STA 731+00.00

SHEET NO. : 178

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
4334 MAIN STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 370-6990

DRAWN BY: --
CHECKED BY: --
APPROVED BY: --

SCALE: HORIZ 1"=30'
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REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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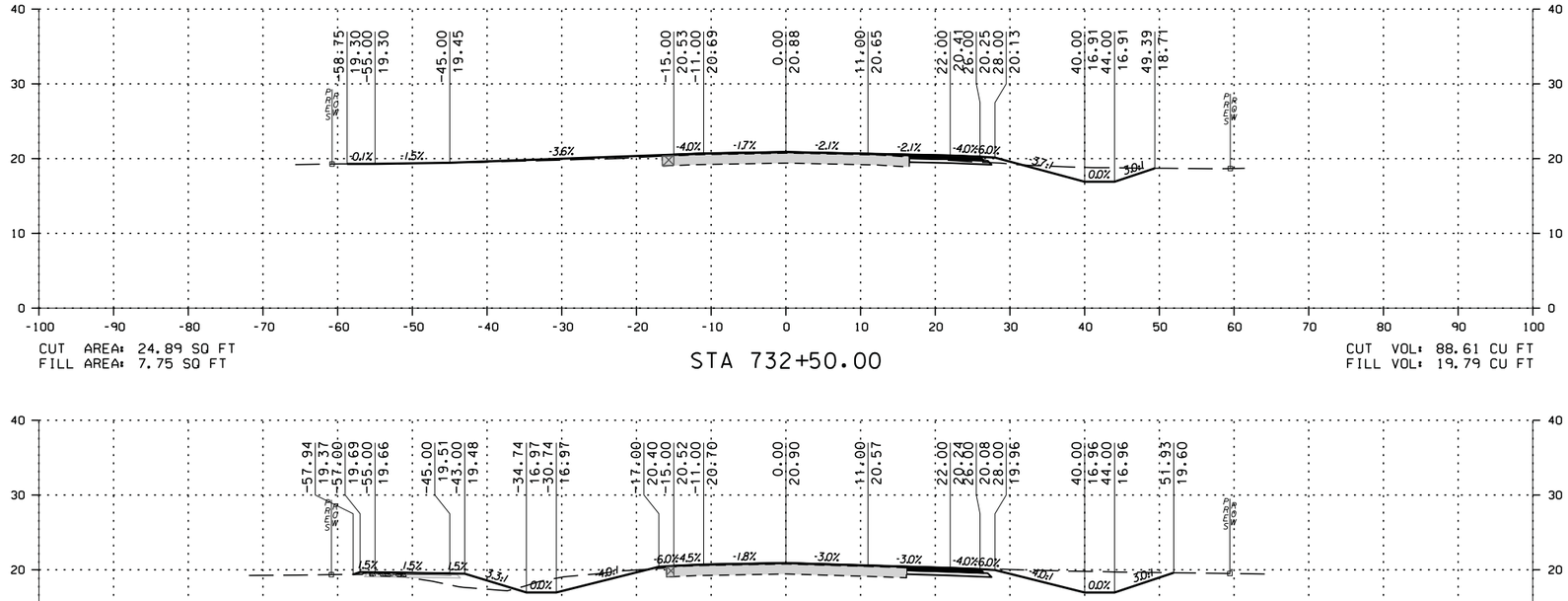
190_XSH.dgn
2021.12.31 14:22:11



CUT AREA: 24.89 SQ FT
FILL AREA: 7.75 SQ FT

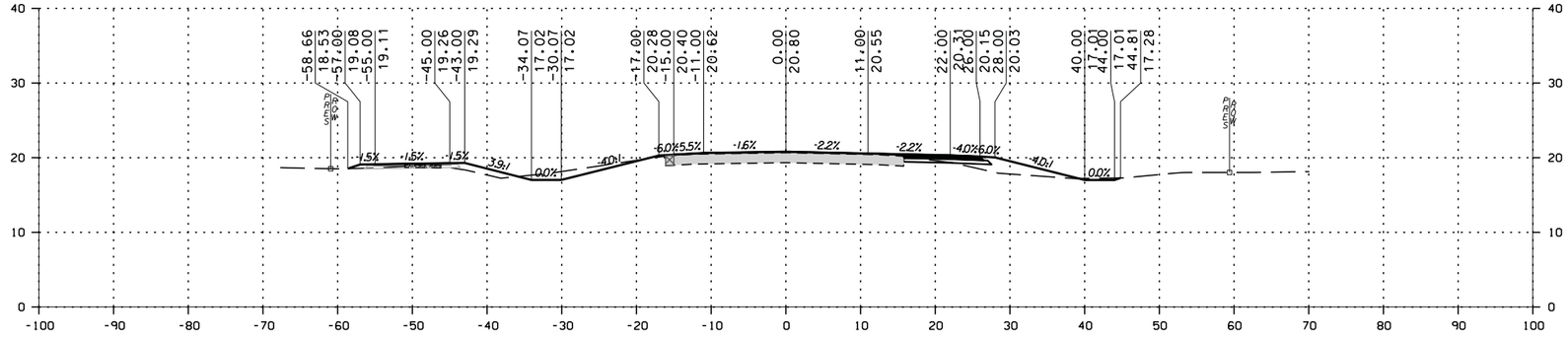
STA 732+50.00

CUT VOL: 88.61 CU FT
FILL VOL: 19.79 CU FT

CUT AREA: 70.81 SQ FT
FILL AREA: 13.62 SQ FT

STA 732+00.00

CUT VOL: 81.00 CU FT
FILL VOL: 34.82 CU FT



CUT AREA: 16.67 SQ FT
FILL AREA: 23.99 SQ FT

STA 731+50.00

CUT VOL: 43.11 CU FT
FILL VOL: 47.03 CU FT

STA 731+50.00 TO STA 732+50.00

SHEET NO. : 179

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251 N. MCKENZIE ST., SUITE 202
FOLEY, ALABAMA 36535
ORANGE BEACH, ALABAMA 36561
(251) 378-6980

DRAWN BY: --
CHECKED BY: --
APPROVED BY: --
DATE: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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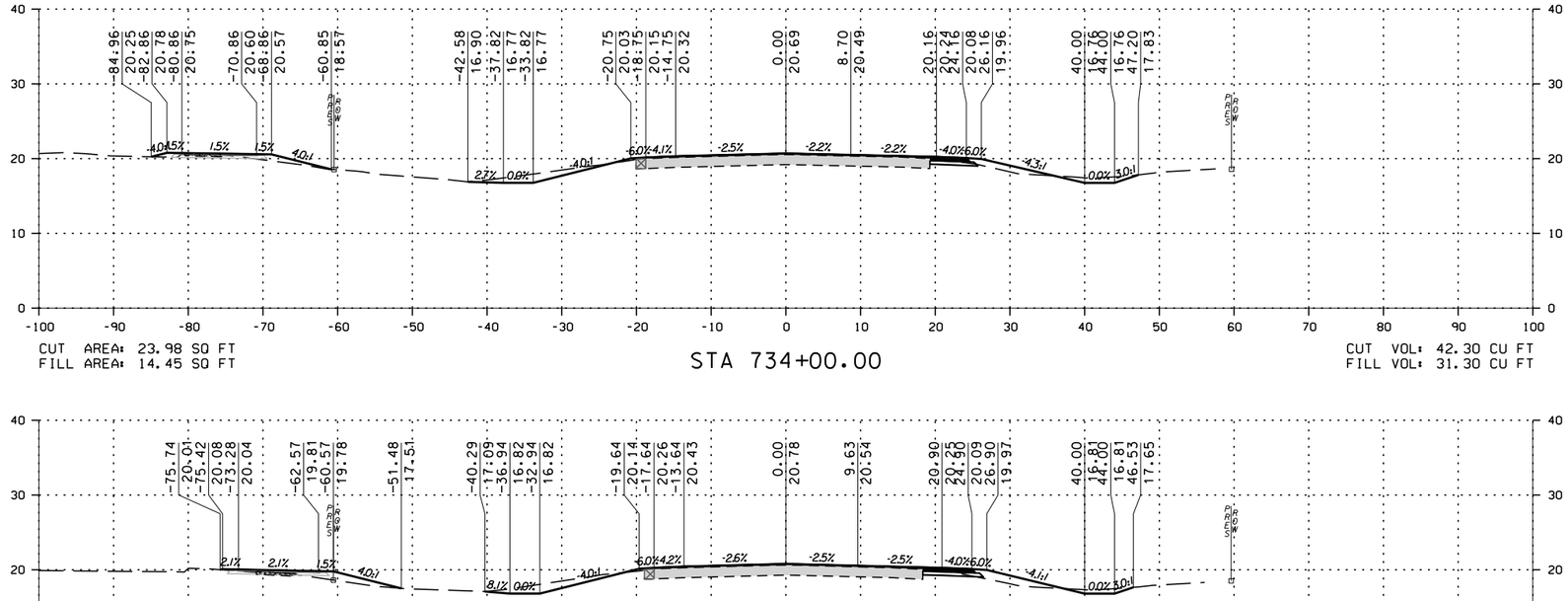


CUT AREA: 23.98 SQ FT
FILL AREA: 14.45 SQ FT

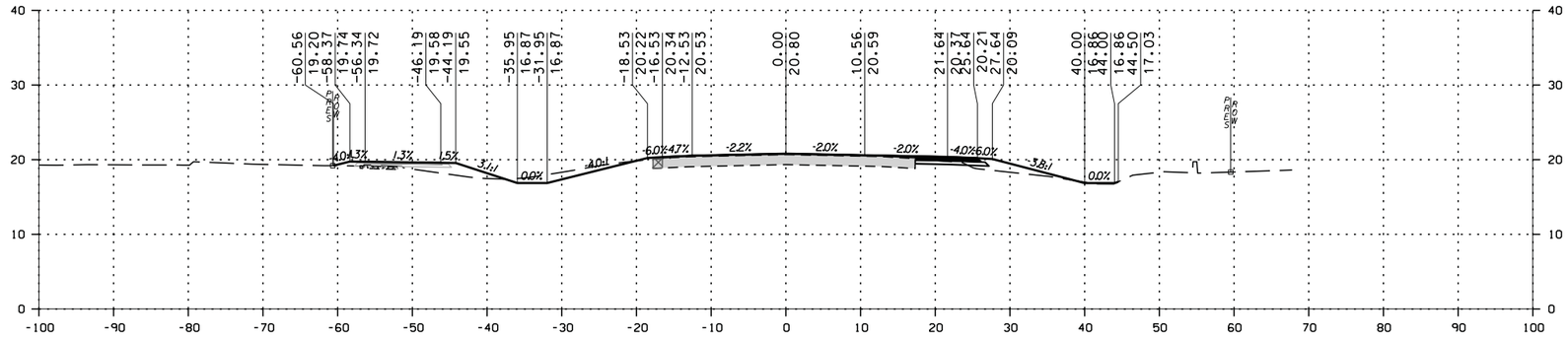
STA 734+00.00

CUT VOL: 42.30 CU FT
FILL VOL: 31.30 CU FT

CUT AREA: 21.70 SQ FT
FILL AREA: 19.35 SQ FT

STA 733+50.00

CUT VOL: 33.33 CU FT
FILL VOL: 46.13 CU FT



CUT AREA: 14.29 SQ FT
FILL AREA: 30.47 SQ FT

STA 733+00.00

CUT VOL: 36.28 CU FT
FILL VOL: 35.39 CU FT

STA 733+00.00 TO STA 734+00.00

SHEET NO. : 180

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
REVISION NO. : --
DATE : DEC 2021
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SCALE: HORIZ 1"=30'
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CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
25351 ARCH ST. SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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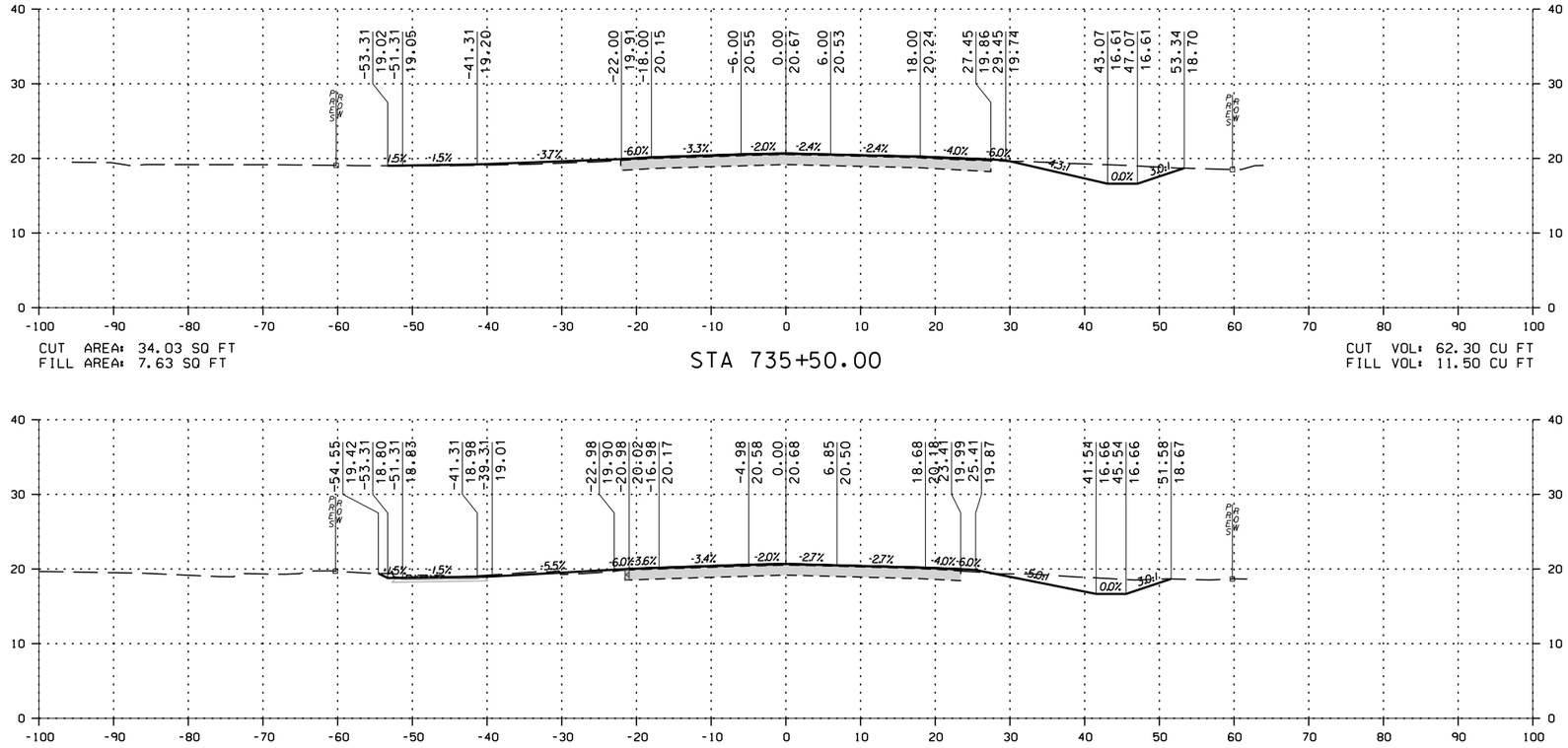


CUT AREA: 34.03 SQ FT
FILL AREA: 7.63 SQ FT

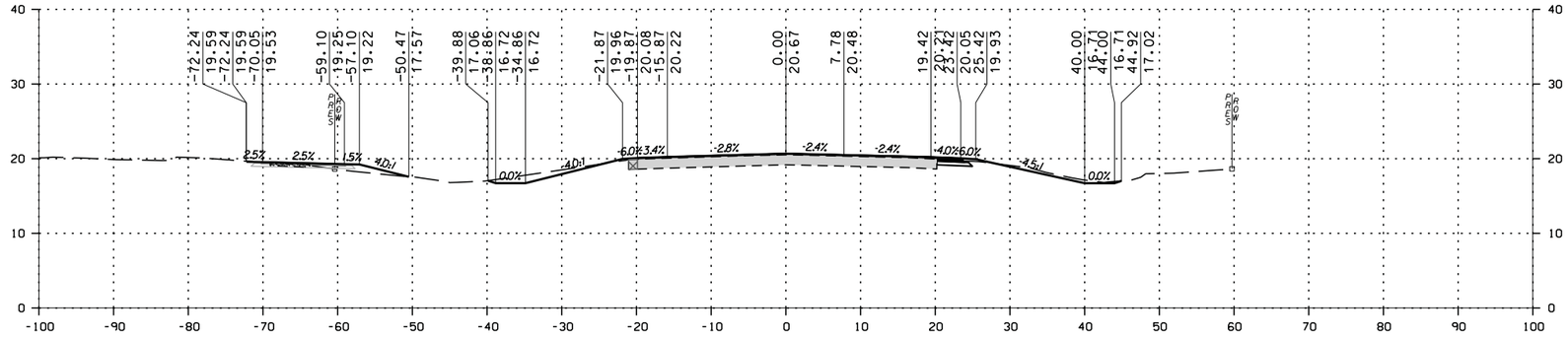
STA 735+50.00

CUT VOL: 62.30 CU FT
FILL VOL: 11.50 CU FT

CUT AREA: 33.26 SQ FT
FILL AREA: 4.79 SQ FT

STA 735+00.00

CUT VOL: 49.48 CU FT
FILL VOL: 11.32 CU FT



CUT AREA: 20.18 SQ FT
FILL AREA: 7.43 SQ FT

STA 734+50.00

CUT VOL: 40.89 CU FT
FILL VOL: 20.26 CU FT

STA 734+50.00 TO STA 735+50.00

SHEET NO. : 181

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
251 N. MCKENZIE STREET, SUITE 202
FOLEY, ALABAMA 36535
(251) 970-0990

DRAWN BY: --
CHECKED BY: --
APPROVED BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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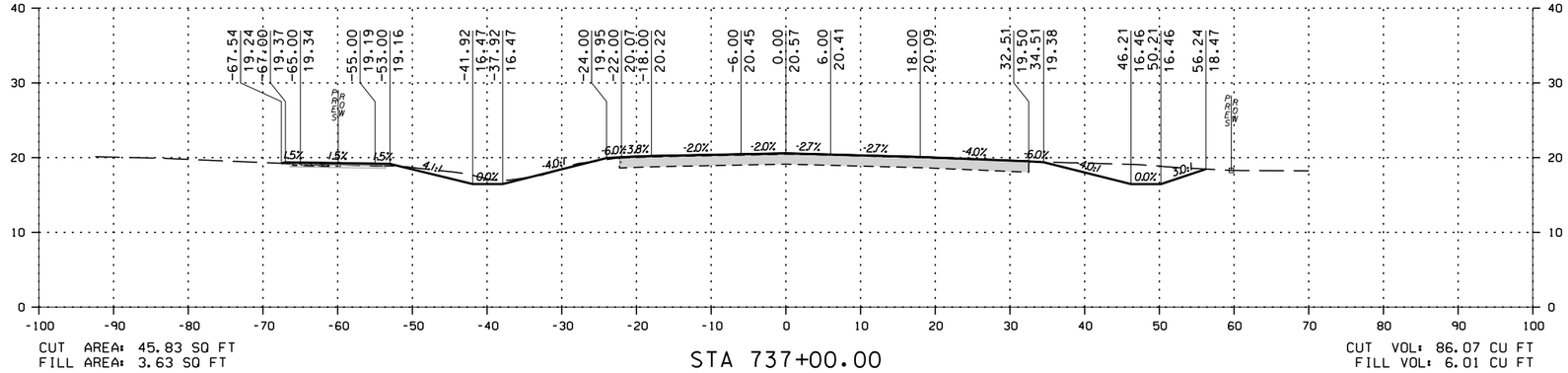
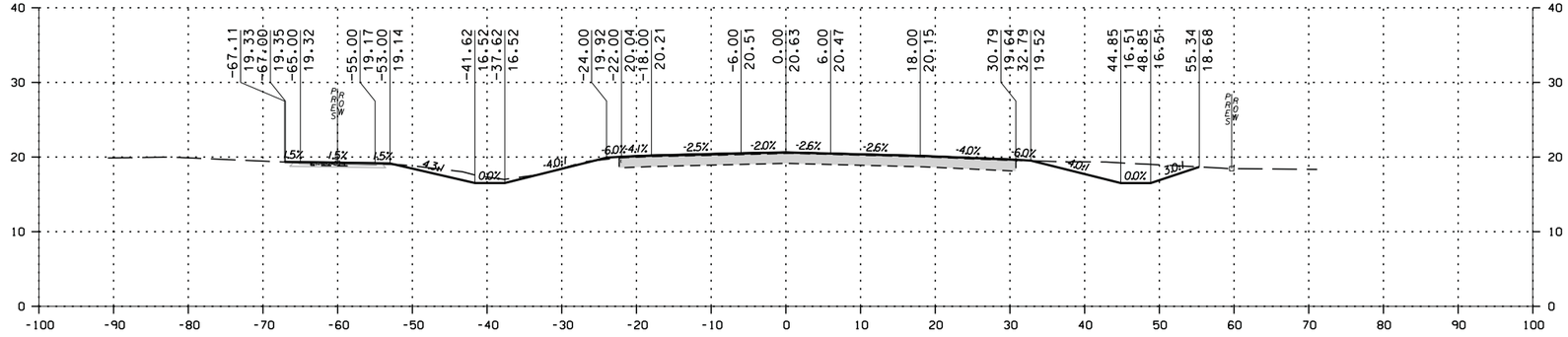
190_XSH.dgn
2021.12.31 14:22:13



CUT AREA: 45.83 SQ FT
FILL AREA: 3.63 SQ FT

STA 737+00.00

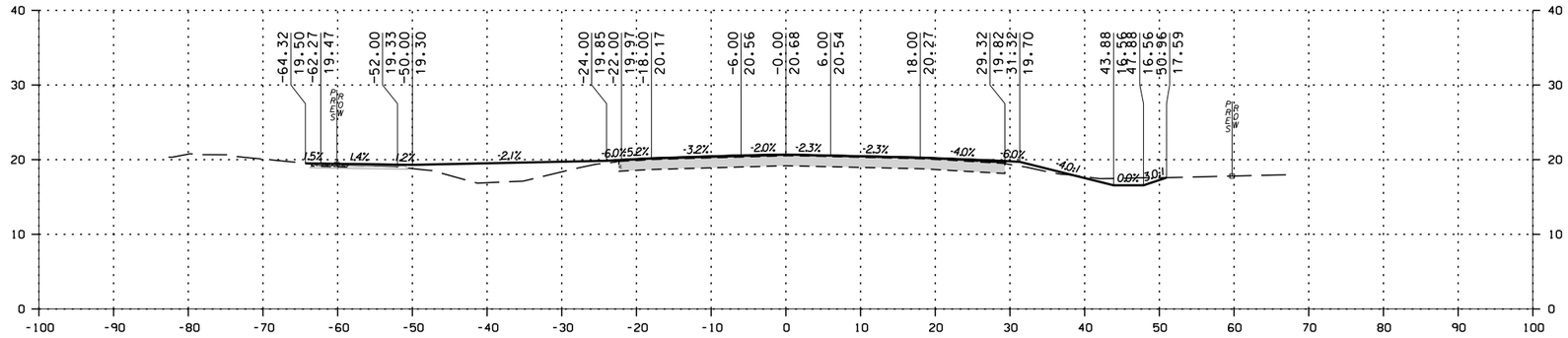
CUT VOL: 86.07 CU FT
FILL VOL: 6.01 CU FT



CUT AREA: 47.12 SQ FT
FILL AREA: 2.86 SQ FT

STA 736+50.00

CUT VOL: 50.41 CU FT
FILL VOL: 50.62 CU FT



CUT AREA: 7.32 SQ FT
FILL AREA: 51.81 SQ FT

STA 736+00.00

CUT VOL: 38.29 CU FT
FILL VOL: 55.03 CU FT

STA 736+00.00 TO STA 737+00.00

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

SHEET NO. : 182

PREPARED BY : thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251 MAGNOLIA AVENUE, SUITE 251
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

DRAWN BY: --
CHECKED BY: --
APPROVED BY: --
DATE : DEC 2021
JOB NO. : 20-1101-0085
REVISION NO. : --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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190_XSH.dgn
2021.12.31 14:22:13

CUT AREA: 3.57 SQ FT
FILL AREA: 1.68 SQ FT

STA 738+50.00

CUT VOL: 3.32 CU FT
FILL VOL: 5.08 CU FT

CUT AREA: 0.02 SQ FT
FILL AREA: 3.81 SQ FT

STA 738+00.00

CUT VOL: 37.07 CU FT
FILL VOL: 4.98 CU FT

CUT AREA: 40.01 SQ FT
FILL AREA: 1.57 SQ FT

STA 737+50.00

CUT VOL: 79.48 CU FT
FILL VOL: 4.81 CU FT

STA 737+50.00 TO STA 738+50.00

SHEET NO. : 183

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
DATE : DEC 2021
REVISION NO. : --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
25351 ARCHER ST., SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

APPROVED BY: --
CHECKED BY: --
DRAWN BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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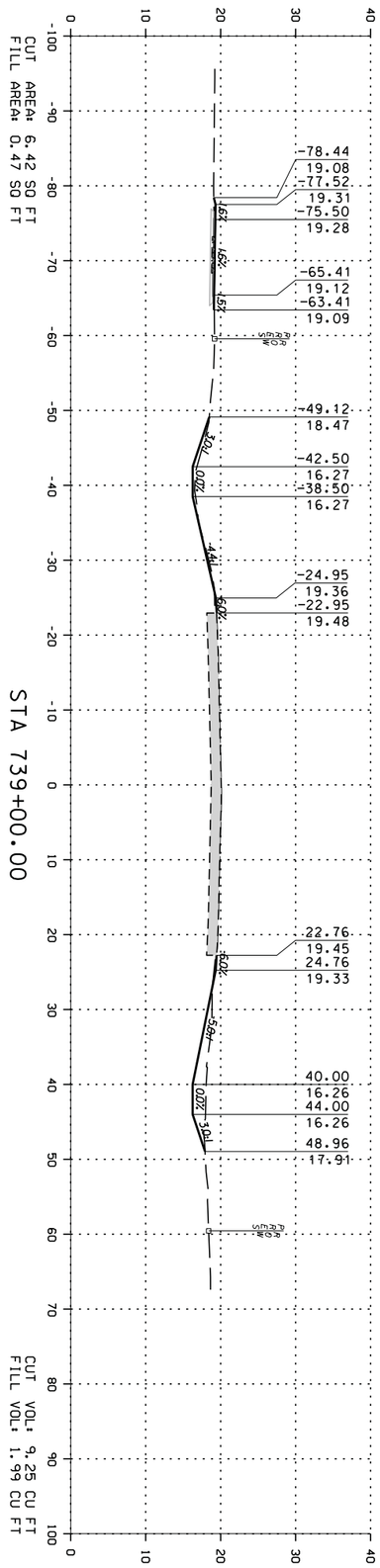
2021.12.31 14:22:14
190_XSH.dgn



STA 739+00.00 TO STA 739+00.00

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

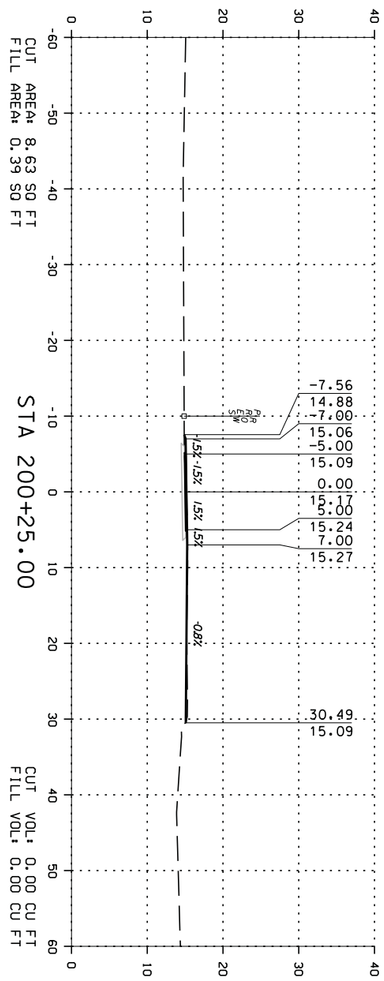
thompson ENGINEERING
THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE F-212
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

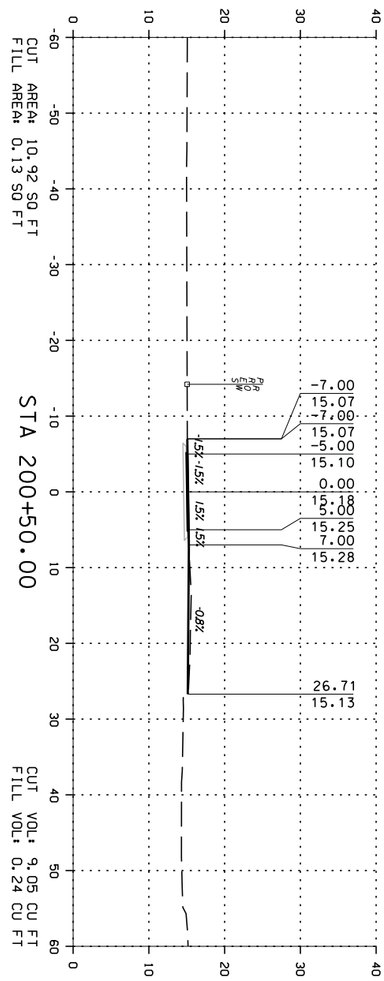
CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

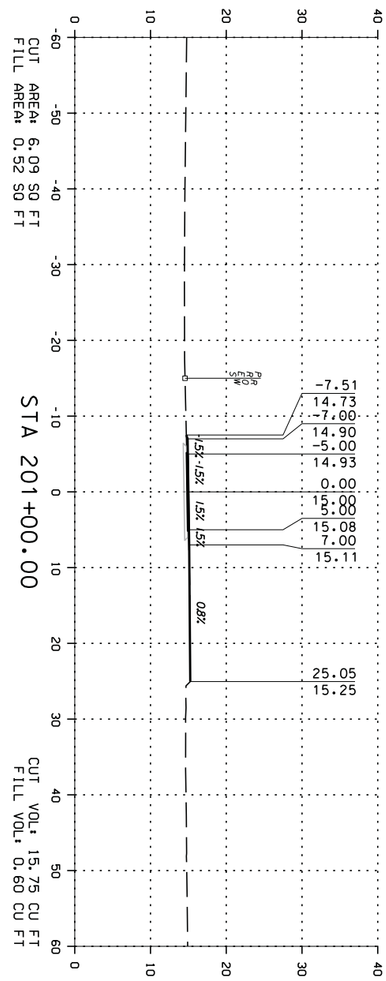
CROSS SECTION SHEET

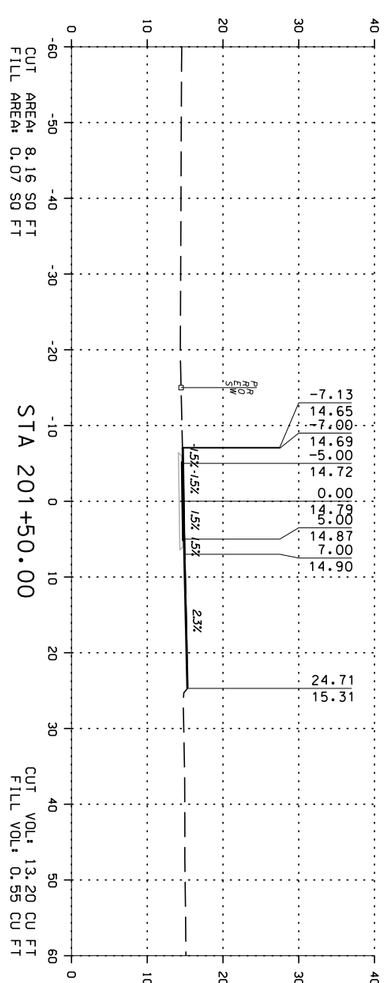
SHEET NO. : 184

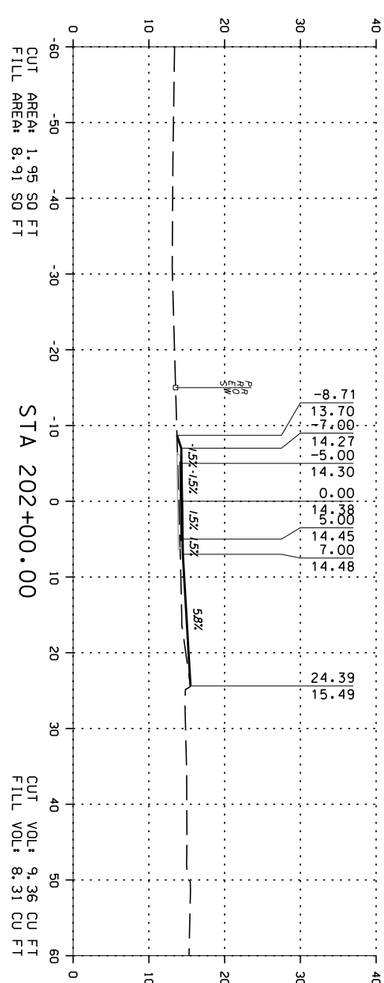
SCALE:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE :	JOB NO. :	REVISION NO. :
HORIZ 1"=30' VERT 1"=5'	--	--	--	DEC 2021	20-1101-0085	--

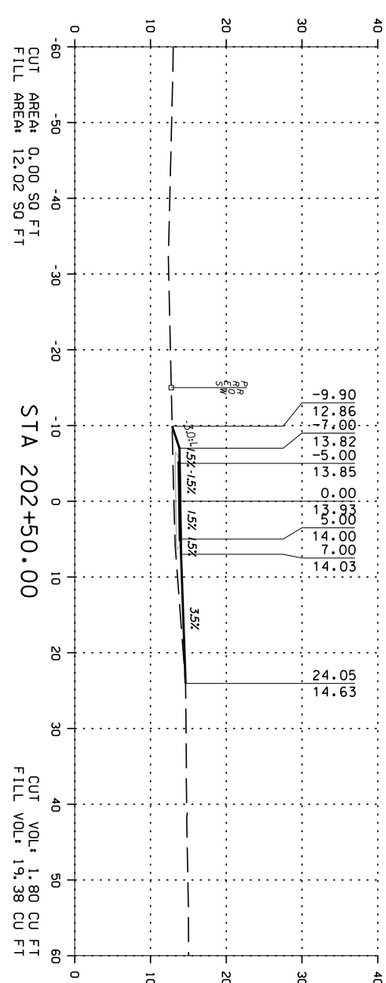












STA 200+25.00 TO STA 202+50.00, BL TRAIL CONNECTION

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REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

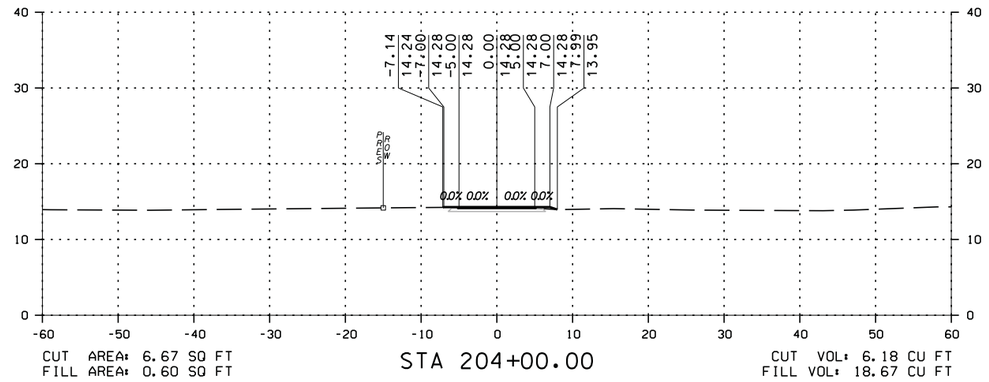
PREPARED BY :
thompson ENGINEERING
THOMPSON ENGINEERING, INC.
4751 MAIN STREET, SUITE F-212
ORANGE BEACH, ALABAMA 36561
(251) 378-6190

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

SCALE:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE :	JOB NO. :	REVISION NO. :
HORIZ 1"=30' VERT 1"=5'	--	--	--	DEC 2021	20-1101-0085	--

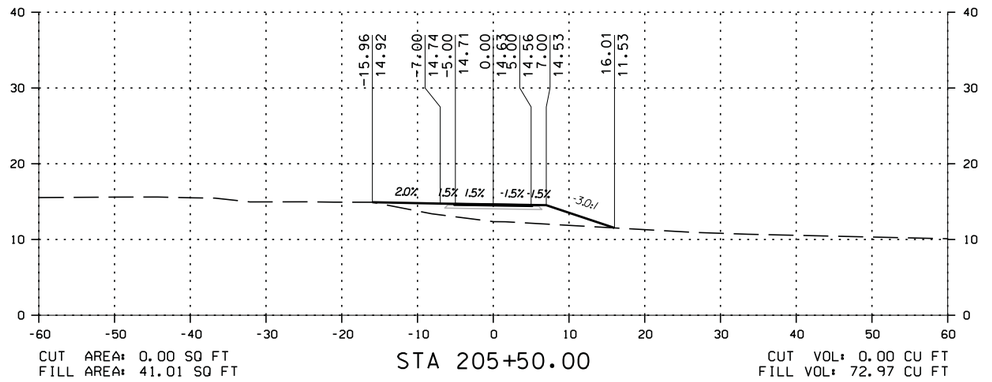
SHEET NO. : 190



CUT AREA: 6.67 SQ FT
FILL AREA: 0.60 SQ FT

STA 204+00.00

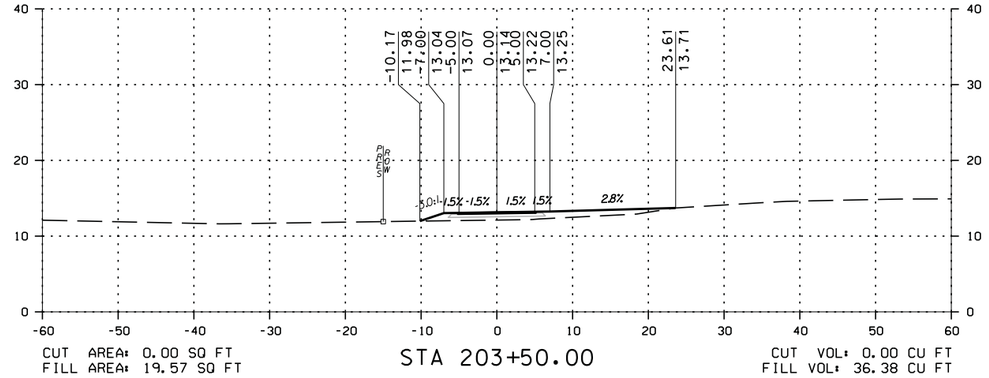
CUT VOL: 6.18 CU FT
FILL VOL: 18.67 CU FT



CUT AREA: 0.00 SQ FT
FILL AREA: 41.01 SQ FT

STA 205+50.00

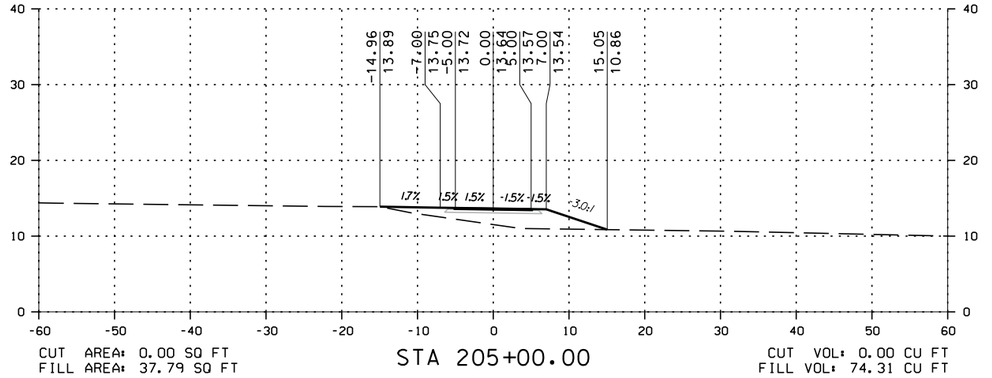
CUT VOL: 0.00 CU FT
FILL VOL: 72.97 CU FT



CUT AREA: 0.00 SQ FT
FILL AREA: 19.57 SQ FT

STA 203+50.00

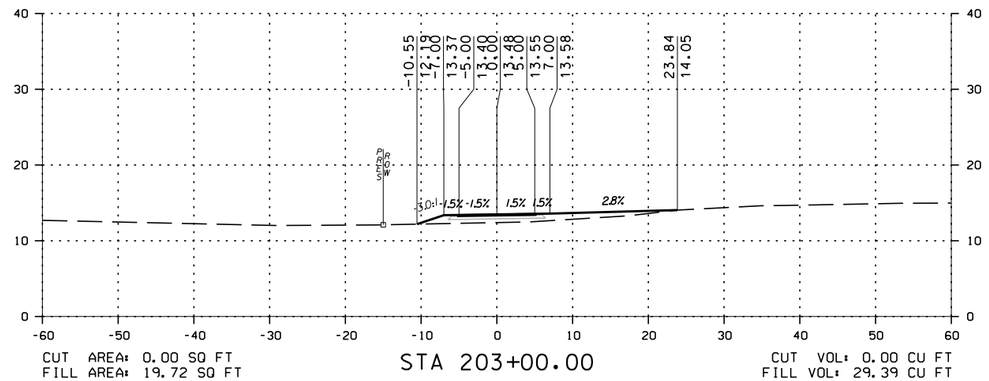
CUT VOL: 0.00 CU FT
FILL VOL: 36.38 CU FT



CUT AREA: 0.00 SQ FT
FILL AREA: 37.79 SQ FT

STA 205+00.00

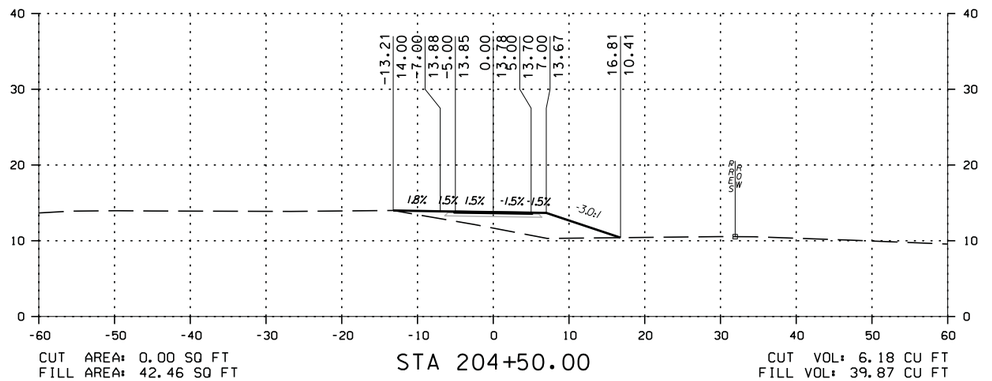
CUT VOL: 0.00 CU FT
FILL VOL: 74.31 CU FT



CUT AREA: 0.00 SQ FT
FILL AREA: 19.72 SQ FT

STA 203+00.00

CUT VOL: 0.00 CU FT
FILL VOL: 29.39 CU FT



CUT AREA: 0.00 SQ FT
FILL AREA: 42.46 SQ FT

STA 204+50.00

CUT VOL: 6.18 CU FT
FILL VOL: 39.87 CU FT

STA 203+00.00 TO STA 205+50.00, BL TRAIL CONNECTION

SHEET NO. : 191

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
REVISION NO. : --
DATE : DEC 2021
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251 MAGNOLIA AVENUE, SUITE 202
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

SCALE: HORIZ 1"=30'
VERT 1"=5'

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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150_XSH.dgn
2021.12.31 14:22:06

CUT AREA: 0.00 SQ FT
FILL AREA: 5.80 SQ FT

STA 207+00.00

CUT VOL: 0.00 CU FT
FILL VOL: 31.49 CU FT

CUT AREA: 5.80 SQ FT
FILL AREA: 0.53 SQ FT

STA 208+50.00

CUT VOL: 11.50 CU FT
FILL VOL: 0.92 CU FT

CUT AREA: 0.00 SQ FT
FILL AREA: 28.21 SQ FT

STA 206+50.00

CUT VOL: 0.76 CU FT
FILL VOL: 33.22 CU FT

CUT AREA: 6.62 SQ FT
FILL AREA: 0.47 SQ FT

STA 208+00.00

CUT VOL: 9.90 CU FT
FILL VOL: 1.39 CU FT

CUT AREA: 0.82 SQ FT
FILL AREA: 7.67 SQ FT

STA 206+00.00

CUT VOL: 0.76 CU FT
FILL VOL: 45.08 CU FT

CUT AREA: 4.07 SQ FT
FILL AREA: 1.03 SQ FT

STA 207+50.00

CUT VOL: 3.77 CU FT
FILL VOL: 6.32 CU FT

STA 206+00.00 TO STA 208+50.00, BL TRAIL CONNECTION

SHEET NO. : 192

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

JOB NO. : 20-1101-0085
REVISION NO. : --
DATE : DEC 2021
APPROVED BY: --
CHECKED BY: --
DRAWN BY: --
SCALE: HORIZ 1"=30'
VERT 1"=5'

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY :

THOMPSON ENGINEERING, INC.
2970 MAIN STREET, SUITE C-202
ORANGE BEACH, ALABAMA 36561
(251) 378-6990

thompson
ENGINEERING

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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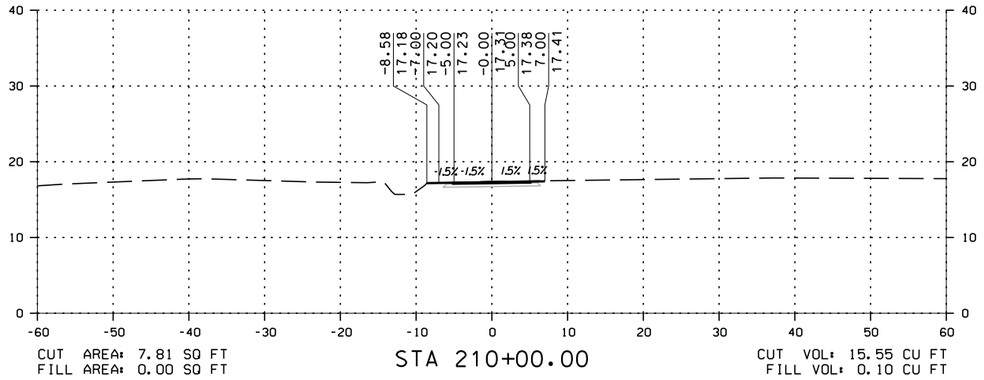
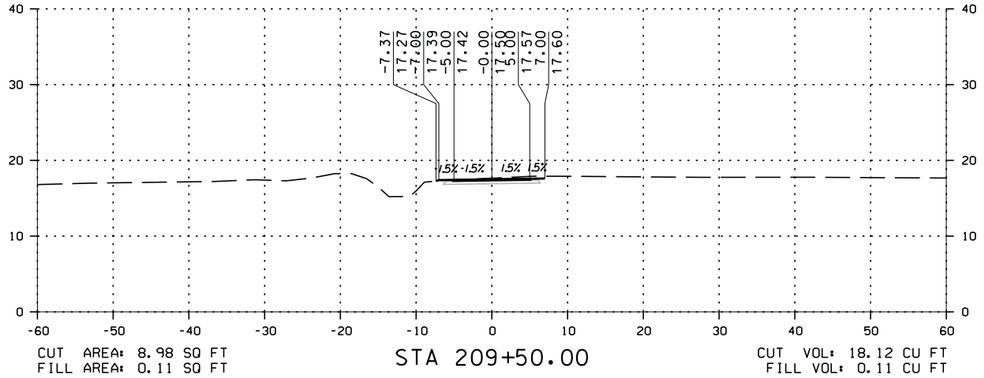
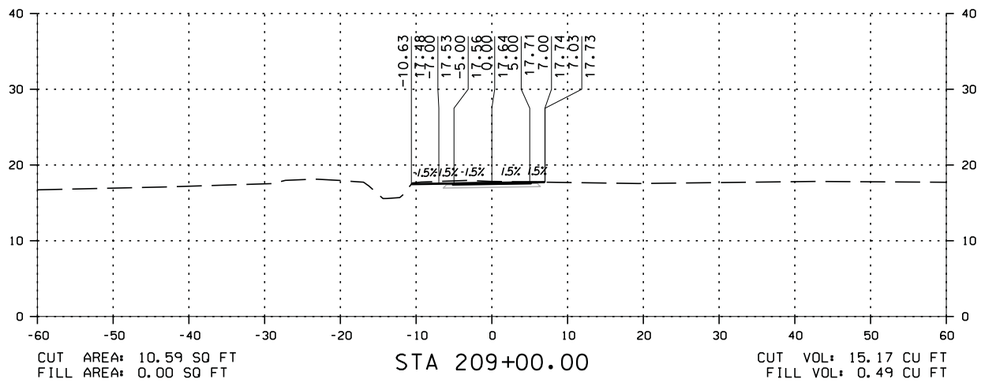
2021.12.31 14:22:07







STA 209+00.00 TO STA 210+00.00, BL TRAIL CONNECTION

SHEET NO. : 193

CANAL ROAD IMPROVEMENTS
FROM SR-161 TO WILSON BOULEVARD

CROSS SECTION SHEET

CITY OF ORANGE BEACH
ORANGE BEACH, ALABAMA

PREPARED BY: thompson ENGINEERING

THOMPSON ENGINEERING, INC.
251A MAGNOLIA STREET, SUITE 2
ORANGE BEACH, ALABAMA 36561
(251) 370-6990

DATE : DEC 2021 | JOB NO. : 20-1101-0085 | REVISION NO. : --

DRAWN BY: -- | CHECKED BY: -- | APPROVED BY: --

SCALE: HORIZ 1"=30'
VERT 1"=5'

ORANGE BEACH ALABAMA

REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:
REVISION NO.	DESCRIPTION	DATE	BY:

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2021.12.31 14:22:07