

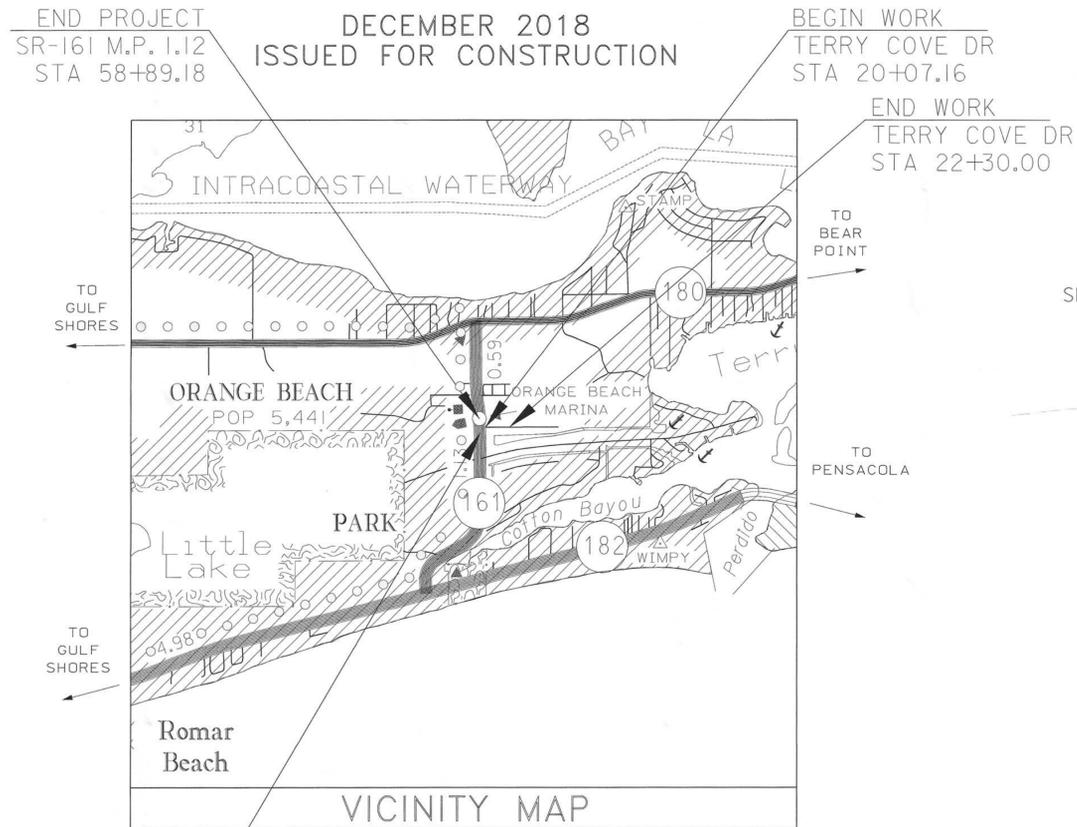
CITY OF ORANGE BEACH

SR-161 INTERSECTION IMPROVEMENTS AT TERRY COVE DRIVE

WIDENING AND RESURFACING OF TERRY COVE DR AND PEDESTRIAN CROSSING IMPROVEMENTS AT THE INTERSECTION OF SR-161

ALDOT SPECIAL AND STANDARD HIGHWAY DRAWINGS REFERENCED (2018)

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734	SW-618	CURB RAMP DETAIL CALLOUTS, GENERAL NOTES FOR CURB RAMPS AND SIDEWALKS, AND DETAILS (SHEET 1 OF 4)
735	SW-618	CORNER CURB RAMPS (SHEET 2 OF 4)
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BEGIN PROJECT
SR-161 M.P. 1.09
STA 57+37.81

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 COSTO, PLACE 5

SUBMITTED BY:



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

12-7-18

DATE

PREPARED BY:

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BURK-KLEINPETER, INC.
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BKI PROJECT NO. OB.18.005

PLANS LEGEND & GENERAL NOTES

LEGEND

	SURVEY CONTROL POINT	-----OE-----OE-----OE-----	OVERHEAD UTILITIES
	PROPERTY CORNER	-----BE-----	UNDERGROUND ELECTRIC LINE
	UTILITY POLE W/ANCHOR	-----W-----	WATER LINE
	LIGHT POLE	-----S-----	SANITARY SEWER LINE
	TRAFFIC SIGNAL POLE	-----G-----	NATURAL GAS LINE
	DECORATIVE LAMP	-----BTC-----	UNDERGROUND COMMUNICATION LINE
	TRAFFIC CONTROL VAULT	=====	STORM DRAIN PIPE
	ELECTRICAL HAND HOLE	-----	WOOD PRIVACY FENCE
	ELECTRIC TRANSFORMER/VAULT	LSA	LANDSCAPED AREA
	FIRE HYDRANT		LIVE OAK TREE
	WATER VALVE		PINE TREE
	WATER METER		PALM TREE
	IRRIGATION CONTROL VALVE		CREPE MYRTLE
	WATER SPIGOT	-----	EXISTING ROW
	WATER LINE MARKER	-----	PROPERTY LINE
	NATURAL GAS VALVE		REQUIRED PIPE (WITH PET)
	NATURAL GAS MARKER		EXITING ASPHALT (RETAIN)
	COMMUNICATION VAULT		EXITING ASPHALT (RETAIN AND OVERLAY)
	TELEPHONE PEDESTAL		EXITING ASPHALT (REMOVE)
	FIBRE OPTICS MARKER		REQUIRED ASPHALT
	SANITARY SEWER MANHOLE		EXISTING/REQUIRED CONCRETE
	MAILBOX		EXISTING CONCRETE (REMOVE)
	SIGN		

SURVEY CONTROL POINT DATA

POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	103,162.98	1,943,056.75	9.16	RED CAPPED REBAR SET (WATTIER)
2	102,784.93	1,943,032.12	9.28	RED CAPPED REBAR SET (WATTIER)
3	103,252.20	1,943,513.34	7.46	6" MAG HUB SET
4	103,029.62	1,943,262.86	8.33	6" MAG HUB SET
50	103,431.06	1,943,015.75	---	6"x6" RIGHT OF WAY MONUMENT FOUND
51	103,266.55	1,943,443.88	---	CRIMP TOP PIPE FOUND
52	103,266.78	1,943,594.21	---	CRIMP TOP PIPE FOUND
53	103,026.24	1,943,263.38	---	CRIMP TOP PIPE FOUND
54	102,826.42	1,943,156.34	---	CRIMP TOP PIPE FOUND
55	103,056.57	1,943,156.03	---	CRIMP TOP PIPE FOUND
56	103,056.67	1,943,405.94	---	CRIMP TOP PIPE FOUND (DISTURBED)
57	103,056.75	1,943,486.11	---	CRIMP TOP PIPE FOUND (DISTURBED)
58	103,026.91	1,943,463.51	---	1/2" REBAR FOUND
59	103,206.59	1,943,565.78	---	CAPPED REBAR FOUND T.S.G.I.
60	103,204.97	1,943,484.98	---	CRIMP TOP PIPE FOUND
61	103,203.45	1,943,390.48	---	CRIMP TOP PIPE FOUND

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

HORIZONTAL COORDINATES SHOWN HEREON ARE REFERENCED TO STATE PLANE COORDINATES, ALABAMA WEST ZONE, NAD 83 AND WERE ESTABLISHED ON-SITE VIA RTK GPS OBSERVATIONS

UTILITY OWNERS

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

CENTURYLINK
1751 INDUSTRIAL PARKWAY
FOLEY, AL 36535
CONTACT: FOREST CHERNEY
251-952-5286

BALDWIN EMC
P.O. BOX 220
SUMMERDALE, AL 36580
CONTACT: BRIAN SEALS
251-989-0154

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

MEDIACOM
25508 CABINET SHOP ROAD
LOXLEY, AL 36551
CONTACT: TOBY ERINGMAN
251-370-4037

POWERSOUTH ENERGY COOPERATIVE
2027 EAST THREE NOTCH ST
ANDALUSIA, AL 36420
CONTACT: COURTNEY BOWERS
334-427-3705

HARBOR COMMUNICATIONS
P.O. BOX 2063
MOBILE, AL 36652
CONTACT: BRETT DESLONDE
251-436-9020

UNITI FIBER (FORMERLY SOUTHERN LIGHT, LLC)
201 ST. JOSEPH STREET
SUITE E
MOBILE, AL 36602
CONTACT: BRANDON WHIGHAM
251-709-7749

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

GENERAL NOTES

- STANDARD SPECIFICATIONS FOR STREETS AND DRAINAGE: REFERENCE IS MADE TO THE ALABAMA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", 2018 EDITION. ALL PROVISIONS OF SAID STANDARD SPECIFICATIONS SHALL APPLY TO THIS CONTRACT AND ARE HEREBY MADE A PART OF THIS CONTRACT, EXCEPT WHEN THE PROVISIONS HEREON OR THE PLANS ARE CLEARLY IN CONFLICT WITH THE PROVISIONS OF SAID STANDARD SPECIFICATIONS, THE PROVISIONS HEREON AND THE PLANS SHALL GOVERN.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO CONSTRUCTION OR FABRICATION.
- WHERE A DETAIL IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY CALLED FOR ON THE DRAWINGS.
- ALL UNPAVED AREAS THAT HAVE BEEN GRADED, CUT, OR FILLED SHALL BE TREATED WITH A SUITABLE COMMERCIAL FERTILIZER IN ACCORDANCE WITH ALABAMA DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS, AND SEEDED WITH A MIXTURE TO SUIT THE PLANTING ZONE (652.03) AND DATE OF PLANTING (860.01) PER ALABAMA DEPARTMENT OF TRANSPORTATION 2012 STANDARD SPECIFICATIONS. A FIRM STAND OF PERMANENT GRASS WILL BE REQUIRED.
- ALL CONCRETE USED ON THE PROJECT SHALL BE 3,000 PSI MINIMUM COMPRESSIVE STRENGTH REQUIRED IN 28 DAYS, UNLESS SPECIFICATIONS REQUIRE CONCRETE OF GREATER STRENGTH.
- UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE BASED ON INFORMATION PROVIDED. THE UTILITIES SHOWN MAY NOT BE A COMPLETE REPRESENTATION OF ALL UTILITY LINES IN THE PROJECT AREA. CONTRACTOR IS REQUIRED TO CONTACT ALABAMA ONE CALL PRIOR TO DIGGING (611) (WWW.AL1CALL.COM). OTHER UTILITIES (INCLUDING PRIVATE UTILITIES OUTSIDE A PUBLIC RIGHT-OF-WAY) THAT DO NOT PARTICIPATE IN THE ALABAMA ONE CALL LINE LOCATION SERVICE NEED TO BE CONTACTED INDIVIDUALLY AND/OR PHYSICALLY LOCATED BY THE CONTRACTOR.
- ALL ROUND REINFORCED CONCRETE PIPE USED WITHIN THE CITY, COUNTY OR STATE RIGHT-OF-WAY MUST BE CLASS 3 WITH RUBBER GASKETS. ALL ARCH REINFORCED CONCRETE PIPE USED WITHIN COUNTY OR STATE RIGHT-OF-WAY MUST BE CLASS 3 WITH RAM-NEK MASTIC GASKETS.
- THE WORD OF THE ENGINEER AND/OR INSPECTOR SHALL BE FINAL IN ANY MATTER.
- SUB-GRADE AND BASE SHALL BE COMPACTED TO THE REQUIREMENTS OF ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR PROPER COMPACTION ON ANY AND ALL UTILITY DITCHES.
- ALL FILL AND EMBANKMENT CONSTRUCTION SHALL BE COMPACTED AS REQUIRED IN LAYERS NOT TO EXCEED 8".
- ALL EXCESS UNCLASSIFIED EXCAVATION IS TO BE UTILIZED FOR CONSTRUCTION OF EMBANKMENTS AND SLOPES NOT DIRECTLY UNDER THE TRAVEL WAY OR PARKING AREAS PRIOR TO USING ANY OFFSITE BORROW EXCAVATION. AFTER CONSTRUCTION OF SUCH AREAS IS COMPLETED, EXCESS EXCAVATION SHALL BE SPREAD AS DIRECTED BY THE ENGINEER, OR AT THE ENGINEER'S DIRECTION, HAULED FROM THE SITE AT NO ADDITIONAL PAYMENT.
- ALL SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AND FULLY FUNCTIONING PRIOR TO ANY OTHER CONSTRUCTION OR GRADING ACTIVITY.
- ALL SLOPES MUST BE STABILIZED AS SOON AS POSSIBLE TO PREVENT EXCESSIVE EROSION.
- PRELIMINARY SOILS TESTING AND ON-SITE CONSTRUCTION MATERIALS TESTING IS TO BE PERFORMED BY AN INDEPENDENT GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER FOR THIS PROJECT IS GEOTECHNICAL ENGINEERING-TESTING, INC. (251-666-7197).
- ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER.
- CONTRACTOR IS REQUIRED TO USE "BEST MANAGEMENT PRACTICES" COMPLIANT WITH THE "ALABAMA HANDBOOK FOR EROSION CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS", ALABAMA SOIL AND WATER CONSERVATION COMMITTEE, MONTGOMERY, ALABAMA, VOLUMES 1 & 2, 2014 EDITION, TO PREVENT SEDIMENT LADEN STORM WATER RUNOFF OR ERODED MATERIALS FROM LEAVING THE CONSTRUCTION SITE.
- ALL MATERIALS AND WORKMANSHIP WITHIN A STATE OR CITY RIGHT-OF-WAY SHALL CONFORM TO THE ALABAMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2012 EDITION.
- CONTRACTOR IS REQUIRED TO INSTALL A RAIN GAUGE ON SITE IN A LOCATION AT LEAST 50' AWAY FROM ALL BUILDINGS, TREES, AND OTHER VERTICAL OBSTRUCTIONS. EVERY 24 HOURS THE RAIN GAUGE READING MUST BE RECORDED (GENERALLY AT THE SAME HOUR OF EACH DAY) BY THE CONTRACTOR AND THE OCP MUST BE NOTIFIED IMMEDIATELY OF EVERY RAIN EVENT THAT EXCEEDS 0.75 INCHES IN 24 HOURS. CONTRACTOR MUST MAKE DAILY INSPECTIONS OF THE SITE AND FAX THE DAILY INSPECTION REPORT TO BURK-KLEINPETER, INC. AT (251) 652-2417 EACH DAY.
- CONTRACTOR IS REQUIRED TO PROTECT THE PUBLIC ON ROADWAYS APPROACHING THE PROJECT AND WITHIN THE PROJECT LIMITS BY PROVIDING AND IMPLEMENTING A TRAFFIC CONTROL PLAN IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION. CONTRACTOR MAY BE REQUIRED TO ASSIST MOTORIST WITH FLAGGING PER MUTCD REQUIREMENTS IF WORKING CLOSE TO BUT NOT IN THE ROADWAY ADJACENT TO THE SITE.
- NO "BIRDBATHS" WILL BE ALLOWED TO REMAIN ON THE SITE. CONTRACTOR IS REQUIRED TO MAKE REPAIRS THAT WILL SATISFACTORILY ELIMINATE BIRDBATHS AND NOT LEAVE THE SITE APPEARING "REPAIRED".
- SIDEWALK CONSTRUCTION SHOWN ON THESE PLANS SHALL MEET ALL REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT OF JULY 1991 TITLE II, TITLE III, AND ANY STATE, COUNTY, LOCAL, OR OTHER APPLICABLE LAWS.

SHEET NUMBER 1A

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PHONE (251) 652-2410 • FAX (251) 652-2417



SCALE NOT TO SCALE
PROJECT NUMBER OB.18.005
ISSUED FOR CONSTRUCTION

DESIGNED C.D.W.
CHECKED
DATE DEC 2018
SUBMITTAL

PROJECT CITY OF ORANGE BEACH
SR-161 INTERSECTION IMPROVEMENTS
AT TERRY COVE DRIVE
SHEET TITLE PLANS LEGEND & GENERAL NOTES

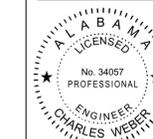
ALDOT STANDARD NOTES

1. ALL METERS ARE TO 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 – FRANKIE L. SMITH, (251) 470-8322
 (92) BALDWIN COUNTY – SAMUEL J. PALMER JR., (251) 937-2086
 (93) ESCAMBIA AND CONECHU COUNTIES – MICKEY T. JONES, (251) 578-7540
4. THE APPLICANT OR ENGINEER OF RECORD SHALL PROMPTLY WRITE A LETTER TO THE DISTRICT ADMINISTRATOR REQUESTING A FINAL INSPECTION UPON COMPLETION OF THE PERMITTED WORK. ANY PUNCH LIST ITEMS SHALL BE COMPLETED PRIOR TO ACCEPTANCE OF WORK. THE MAINTENANCE PERIOD OF THE PERMIT CONTRACT BEGINS UPON ACCEPTANCE OF WORK.
5. BONDS SUBMITTED FOR PERMITS SHALL BE HELD FOR A ONE YEAR MAINTENANCE PERIOD AFTER THE WORK HAS BEEN INSPECTED AND ACCEPTED 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. ON SITE 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 WILL BE RESODDED OR SEEDED AS DIRECTED BY THE DEPARTMENT OF TRANSPORTATION'S DISTRICT ADMINISTRATOR.
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 WITH THE CURRENT APPLICABLE NATIONAL ELECTRICAL SAFETY CODE.
12. A BEST MANAGEMENT PLAN SHALL AT 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 ON 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: 0.10 ACRES.
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 SHALL BE PHYSICALLY LOCATED BOTH HORIZONTALLY AND VERTICALLY.
 A. THE UTILITY FACILITIES IN THE AREA OF WORK ARE REPRESENTED TO THE BEST OF MY KNOWLEDGE, ACCORDING TO LOCATES PROVIDED BY 811 AND INDIVIDUAL DUE DILIGENCE. ENGINEER INITIALS CDW
 B. 811 LOCATE REQUEST # 182410089
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 RIGHT-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. MILEPOST 1.09 TO 1.12 SPEED LIMIT 45 MPH STOPPING SIGHT DISTANCE 360 FT
31. IS DRAINAGE/RUNOFF FROM THIS SITE DIRECTED ONTO STATE ROW? YES OR NO ENGINEER INITIALS CDW
32. ARE UTILITY CONFLICTS PRESENT OR IS UTILITY RELOCATION REQUIRED FOR THIS PROJECT TO MEET SPECIFICATIONS? YES OR NO ENGINEER INITIALS CDW
33. SHALL MINIMUM COVER OVER UTILITIES BE MAINTAINED UPON COMPLETION OF WORK? YES OR NO ENGINEER INITIALS CDW
34. THE LEGAL PERMIT APPLICANT IS HELD RESPONSIBLE AND LIABLE FOR ALL DAMAGES, ACTIONS, OR RESPONSIBILITIES OF THEIR APPOINTED CONTRACTORS, ASSIGNS, OR APPOINTEES.

SHEET NUMBER 1B

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 PHONE (251) 652-2410 • FAX (251) 652-2417



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DESIGNED CHECKED C.D.W.
 DATE DEC 2018
 PLAN SUBMITTAL ISSUED FOR CONSTRUCTION

PROJECT CITY OF ORANGE BEACH
 SR-161 INTERSECTION IMPROVEMENTS
 AT TERRY COVE DRIVE
 SHEET TITLE ALDOT STANDARD NOTES

TRAFFIC SIGNAL AND ITS LEGEND

ELECTRICAL BOXES

	EXISTING	REQUIRED
METALLIC PULL BOX		
FIBER OPTIC COMMBOX TYPE F1		
FIBER OPTIC COMMBOX TYPE F2		
TRAFFIC SIGNAL JUNCTION BOX		

CABLE IN CONDUIT

	EXISTING	REQUIRED
FIBER OPTIC CABLE IN CONDUIT (UNDERGROUND)		
FIBER OPTIC CABLE IN CONDUIT (UNDERGROUND WITH CONCRETE)		
FIBER OPTIC CABLE IN CONDUIT (BRIDGE ATTACHED)		
FIBER OPTIC CABLE (AERIAL INSTALLATION)		
INTERCONNECT CABLE IN CONDUIT (UNDERGROUND)		
INTERCONNECT CABLE (AERIAL INSTALLATION)		
CONDUIT		
ENCASEMENT		
OVERHEAD ELECTRIC		
BURIED ELECTRIC		

VEHICULAR DETECTORS

	EXISTING	REQUIRED
PRESENCE LOOP DETECTOR		
QUADRUPOLE LOOP DETECTOR		
6' x 6' LOOP DETECTOR		
VEHICLE DETECTION CAMERA		
VIDEO DETECTION ZONE		
RADAR DETECTION UNIT		

CABINETS

	EXISTING	REQUIRED
CABINET		

CAMERAS

	EXISTING	REQUIRED
CCTV CAMERA, FIXED		
CCTV CAMERA, PTZ		

MISCELLANEOUS EQUIPMENT

	EXISTING	REQUIRED
TRAFFIC SIGNAL HEAD		
TRAFFIC SIGNAL HEAD WITH BACKPLATE		
PEDESTRIAN SIGNAL HEAD		
8 FOOT PEDESTAL POLE AND PEDESTRIAN SIGNAL HEAD		
PEDESTAL MOUNTED FLASHING WARNING SIGNAL WITH SIGN		
PEDESTAL MOUNTED ILLUMINATED SCHOOL ZONE SIGN		
PUSH BUTTON ASSEMBLY		
SPAN/MASTARM MOUNTED SIGN		
OMNI DIRECTIONAL ANTENNA		
DIRECTIONAL ANTENNA		
EMERGENCY VEHICLE PREEMPTION SENSOR		
BLANKOUT MESSAGE SIGN		
TRAFFIC CONTROL CENTER		
HIGHWAY ADVISORY RADIO		
HUB BUILDING		
DYNAMIC MESSAGE SIGN (OVERHEAD)		
DYNAMIC MESSAGE SIGN (ROADSIDE)		
DYNAMIC MESSAGE SIGN (CANTILEVER)		

(NOTE: # INDICATES SIGNAL HEAD NUMBER)

POLES

	EXISTING	REQUIRED
METAL POLE		
CONCRETE POLE		
METAL MASTARM POLE		
CLASS 3 WOOD SERVICE POLE WITH DISCONNECT		
WOOD POLE		
DOWN GUY		
LUMINAIRE		

ABBREVIATIONS

AMERICAN WIRE GAUGE	AWG
CLOSED CIRCUIT TELEVISION	CCTV
CONDUIT	C
CURB AND GUTTER	C&G
DYNAMIC MESSAGE SIGN	DMS
EASTBOUND ROADWAY	EBR
EMERGENCY VEHICLE PREEMPTION	EVP
END ANCHOR	E/A
FLASHING BEACON	FB
GALVANIZED RIGID CONDUIT	GRC
GUARDRAIL	GR
HIGH DENSITY POLYETHYLENE	HDPE
HIGHWAY ADVISORY RADIO	HAR
INDIVIDUAL LOWERING DEVICE	ILD
INTELLIGENT TRANSPORTATION SYSTEM(S)	ITS
JUNCTION BOX	JB
LEFT	LT
LIGHT EMITTING DIODE	LED
LIGHT POLE	LP
LUMINAIRE	LUM
MILEPOST	MP
NORTHBOUND ROADWAY	NBR
NON-METALLIC CONDUIT	NMC
PAN TILT ZOOM	PTZ
PRIMARY FIBER DISTRIBUTION UNIT	PFDU
PROPERTY LINE	PL
PUBLIC ACCESS CAMERA	PAC
PULL BOX	PB
RADIUS	R
RAILROAD	RR
RIGHT	RT
RIGHT OF WAY	ROW
ROADWAY	RDWY
SECONDARY FIBER DISTRIBUTION UNIT	SFDU
SCHOOL	SCH
SOUTHBOUND ROADWAY	SBR
STANDARD DRAWING	STD-DWG
STATION	STA
TRAFFIC CONTROL CENTER	TCC
TRAFFIC SIGNAL OPERATING PLAN	TSOP
TRANSPORTATION MANAGEMENT CENTER	TMC
TURNOUT	TO
VEHICLE DETECTION CAMERA	VDC
WESTBOUND ROADWAY	WBR

SHEET NUMBER 1C

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BURK-KLEINPETER, INC.
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 ORANGE BEACH, ALABAMA 36561
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CHECKED		
DATE	DEC 2018	PROJECT NUMBER
		OB.18.005
PLAN SUBMITTAL	ISSUED FOR CONSTRUCTION	

PROJECT CITY OF ORANGE BEACH
 SR-161 INTERSECTION IMPROVEMENTS
 AT TERRY COVE DRIVE
 SHEET TITLE TRAFFIC SIGNAL AND ITS LEGEND

TRAFFIC SIGNAL PLAN NOTES

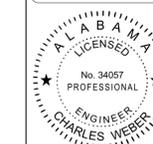
IN THE EVENT CONFLICTS OCCUR BETWEEN THE PROJECT TRAFFIC SIGNAL NOTES AND THE MUTCD, THE MUTCD WILL GOVERN.

○ NOTES THAT APPLY TO THIS PROJECT.

- | | | |
|--|---|---|
| <p>500. WHEN THE CONTROLLER IS IN THE FLASHING MODE, THE VEHICULAR SIGNAL HEADS SHALL FLASH YELLOW ON { ENTER US ROUTE, STATE ROUTE, OR STREET NAME }, RED ON ALL CROSS STREETS, AND RED ON PROTECTED LEFT TURNS.</p> <p>501. ALL EXISTING TRAFFIC CONTROL EQUIPMENT WHICH IS THE PROPERTY OF THE STATE INCLUDING SIGNAL HEADS, CONTROLLERS, POLES, AND MISCELLANEOUS HARDWARE SHALL BE REMOVED UPON COMPLETION OF THE NEW TRAFFIC CONTROL UNIT (TEMPORARY OR PERMANENT) AND STORED TO COMPLY WITH SECTION 730.03 OF THE STANDARD SPECIFICATIONS. THE SAME SHALL BE DELIVERED TO THE ALABAMA DEPARTMENT OF TRANSPORTATION AS DIRECTED BY THE ENGINEER.</p> <p>502. ALL EXISTING TRAFFIC CONTROL EQUIPMENT WHICH IS THE PROPERTY OF THE CITY OF ORANGE BEACH, INCLUDING SIGNAL HEADS, CONTROLLERS, POLES, AND MISCELLANEOUS HARDWARE SHALL BE REMOVED UPON COMPLETION OF THE NEW TRAFFIC CONTROL UNIT (TEMPORARY OR PERMANENT) AND STORED TO COMPLY WITH SECTION 730.03 OF THE STANDARD SPECIFICATIONS. THE SAME SHALL BE DELIVERED TO THE ALABAMA DEPARTMENT OF TRANSPORTATION AS DIRECTED BY THE ENGINEER.</p> <p>503. THE LOCATION OF THE POWER SOURCE AS SHOWN IN THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF THE POWER SOURCE AND THE SHORTEST ROUTE TO SERVE THE TRAFFIC SIGNAL CONTROLLER CABINET AND LUMINAIRES.</p> <p>504. FROM THE DATE TIME CHARGE BEGINS THE CONTRACTOR SHALL ASSUME TOTAL RESPONSIBILITY FOR ALL EXISTING, TEMPORARY, AND NEW TRAFFIC CONTROL UNIT(S) ON THE PROJECT. THE CONTRACTOR SHALL CONTINUE THE OPERATION AND MAINTENANCE OF THE EXISTING TRAFFIC CONTROL UNIT(S) UNTIL THE ENTIRE NEW PERMANENT TRAFFIC CONTROL UNIT(S) IS(ARE) OPERATIONAL AND ACCEPTED BY THE ALABAMA DEPARTMENT OF TRANSPORTATION.</p> <p>505. THE CONTRACTOR, WITHOUT EXTRA COMPENSATION, SHALL BE RESPONSIBLE TO ENSURE THE CONTINUAL OPERATION AND MAINTENANCE OF THE EXISTING AND TEMPORARY TRAFFIC CONTROL UNIT(S) DURING THE PERIOD OF CONSTRUCTION. MAINTAINING CONTINUAL OPERATION SHALL INCLUDE THE RELOCATION OF VEHICULAR SIGNAL HEADS DURING CONSTRUCTION AND THE MATERIALS AND LABOR NECESSARY TO ENSURE THE CONTINUAL OPERATION OF THE TRAFFIC CONTROL UNIT(S) EQUIPMENT AT ALL TIMES.</p> <p>○ 506. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES TO LOCATE ALL OVERHEAD AND UNDERGROUND UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. DAMAGE TO UTILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE UTILITY COMPANY AND THE ENGINEER. THE CONTRACTOR SHALL BEAR ALL COST TO REPAIR ANY AND ALL DAMAGES TO THE UTILITIES CAUSED BY THE CONTRACTOR.</p> <p>○ 507. THE ALABAMA DEPARTMENT OF TRANSPORTATION RESERVES THE RIGHT TO RESPOND TO TRAFFIC CONTROL UNIT(S) MALFUNCTIONS IN AN EMERGENCY OR NATURAL DISASTER. IN DOING SO THE CONTRACTOR'S LIABILITY AND RESPONSIBILITY RELATED TO MAINTAINING THE TRAFFIC UNIT(S) OR SYSTEM REMAINS IN EFFECT.</p> <p>508. THE CONTRACTOR SHALL HAVE THE APPROVAL OF THE ENGINEER PRIOR TO THE REMOVAL OF ANY EXISTING TRAFFIC CONTROL UNIT. THE CONTRACTOR SHALL NOT REMOVE AN EXISTING TRAFFIC CONTROL UNIT UNTIL THE REQUIRED TRAFFIC CONTROL UNIT IS INSTALLED AND COMPLETELY OPERATIONAL.</p> | <p>509. EACH REQUIRED TRAFFIC SIGNAL STRAIN POLE AND MAST ARM POLE MAY VARY IN LENGTH AND SIZE. THE CONTRACTOR SHALL ASCERTAIN THAT THE POLE HEIGHTS ARE SUFFICIENT TO PROVIDE THE REQUIRED VEHICULAR TRAFFIC SIGNAL CLEARANCE. EXTENSIONS FOR MOUNTING SIGNALS SHALL BE PROVIDED WHEN NECESSARY.</p> <p>510. EACH MAST ARM MAY VARY IN LENGTH. THE CONTRACTOR SHALL ASCERTAIN THAT ALL ARM LENGTHS ARE SUFFICIENT SO THAT EACH VEHICULAR SIGNAL HEAD POSITION CONFORMS TO THE MUTCD.</p> <p>511. THE TRAFFIC SIGNAL POLE LOCATION(S) AS SHOWN IN THE PLANS IS(ARE) APPROXIMATE. THE CONTRACTOR SHALL COORDINATE THE POLE LOCATION(S) WITH THE ENGINEER. THE CONTRACTOR SHALL ASCERTAIN THAT THE FINAL POLE LOCATION(S) PROVIDE FOR THE VEHICULAR TRAFFIC SIGNAL HEADS TO MEET THE DISTANCE REQUIREMENTS TO THE STOP LINE AS REQUIRED BY THE MUTCD. WHEN PEDESTRIAN SIGNAL HEADS AND/OR PEDESTRIAN CROSSWALKS ARE INVOLVED THE SAME SAID POLE LOCATION(S) SHALL ALSO CONFORM TO THE RELATIVE SECTIONS OF THE MUTCD.</p> <p>512. THE CONTRACTOR SHALL LOCATE EACH REQUIRED AND RELOCATED VEHICULAR TRAFFIC SIGNAL HEAD ON THE SPAN WIRE OR MAST ARM SO THAT EACH HEAD IS LOCATED IN THE APPROACH LANE FOR WHICH IT APPLIES. LOCATION OF SIGNAL HEADS SHALL CONFORM TO THE MUTCD.</p> <p>513. THE TRAFFIC SIGNAL STRAIN POLE LOCATION(S) AS SHOWN IN THE PLANS IS(ARE) APPROXIMATE. THE ENGINEER SHALL APPROVE ALL FOUNDATION LOCATIONS PRIOR TO THE CONTRACTOR EXCAVATING FOR EACH FOUNDATION.</p> <p>514. BALANCE ADJUSTERS SHALL BE INSTALLED ON TRAFFIC SIGNAL HEADS FOR PROPER AIM. THE CONTRACTOR SHALL ALIGN THE SIGNAL HEADS IN ACCORDANCE WITH THE MUTCD AND TO THE SATISFACTION OF THE ENGINEER.</p> <p>515. A 12 INCH DRIP COIL WITH 3 LOOPS SHALL BE PROVIDED TO THE RIGHTS OF EACH VEHICULAR TRAFFIC SIGNAL HEAD. A DRIP LOOP SHALL BE FORMED SO THAT WATER CANNOT ENTER THE ENTRANCE CLAMP. THE WIRE SHALL ENTER THE CLAMP FROM THE BOTTOM OF THE DRIP LOOP.</p> <p>516. WHEN PVC CONDUIT IS USED FROM THE CONTROLLER TO THE STEEL STRAIN POLE OR MAST ARM POLE, THE CONTRACTOR SHALL BOND THE CONTROLLER TO THE POLE WITH A #6-1C BONDING CABLE.</p> <p>517. MARKING TAPE SHALL BE BURIED OVER CONDUIT. THE TAPE SHALL BE 4 INCH POLYETHYLENE, RED IN COLOR WITH BLACK LETTERING.</p> <p>518. WHEN EXISTING LOOP WIRE AND VEHICLE LOOP DETECTORS ARE TO BE RETAINED AND REUSED, OR RELOCATED IN A NEW CONTROLLER CABINET, THE CONTRACTOR SHALL ASCERTAIN THE MANUFACTURER AND MODEL NUMBER OF EACH EXISTING DETECTOR AMPLIFIER AND PROVIDE A NEW WIRING HARNESS COMPLETELY WIRED IN THE CONTROLLER CABINET FOR EACH EXISTING DETECTOR AMPLIFIER.</p> <p>519. WHEN SYSTEM TIMINGS ARE NOT INCLUDED IN THE PLANS FOR TIME BASE OR CLOSED LOOP SYSTEMS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HIRE A LICENSED PROFESSIONAL ENGINEER TO CALCULATE SYSTEM TIMINGS. THE COST OF CALCULATING SYSTEM TIMINGS SHALL BE A SUBSIDIARY OBLIGATION OF 730C.</p> <p>520. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HIRE A LICENSED PROFESSIONAL ENGINEER TO INPUT THE TIMINGS AND FINE TUNE THE TIMINGS. THE COST OF INPUTTING AND FINE TUNING TIMINGS SHALL BE A SUBSIDIARY OBLIGATION OF 730C.</p> | <p>521. THE { AREA TRAFFIC ENGINEER / CITY TRAFFIC ENGINEER / COUNTY TRAFFIC ENGINEER } SHALL BE RESPONSIBLE FOR INPUTTING AND FINE TUNING THE TIMINGS.</p> <p>522. WHEN EXISTING SPAN WIRE THAT IS TO BE RETAINED HAS SAGGED, THE CONTRACTOR SHALL ADJUST THE SPAN WIRE SO THAT SIGNAL HEADS COMPLY WITH THE CLEARANCE SHOWN ON THE STANDARD DETAIL DRAWING.</p> <p>523. 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 OFFICE ENGINEER PRIOR TO BIDDING.</p> <p>524. THE CONTRACTOR SHALL PROVIDE A SET OF AS-BUILT PLANS TO THE AREA TRAFFIC ENGINEER.</p> <p>525. THE CONTRACTOR SHALL INSTALL BACKPLATES WITH A 1 INCH TO 3 INCH FLUORESCENT YELLOW REFLECTIVE BORDER ON ALL SIGNAL HEADS (EXISTING AND REQUIRED).</p> |
|--|---|---|

SHEET NUMBER 1D

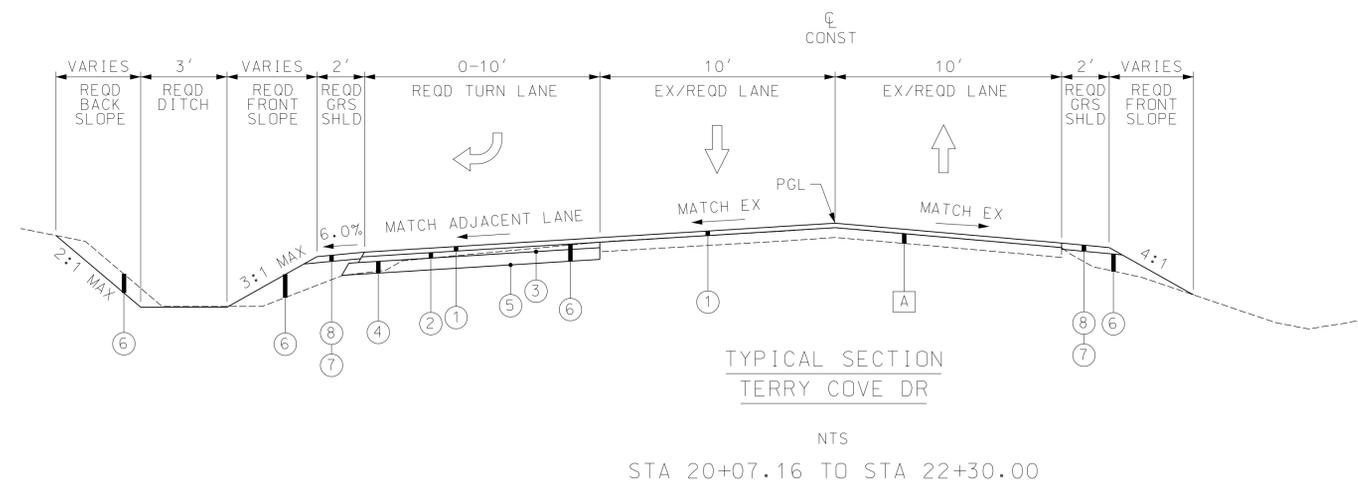
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 4751 MAIN STREET, SUITE F-212
 ORANGE BEACH, ALABAMA 36561
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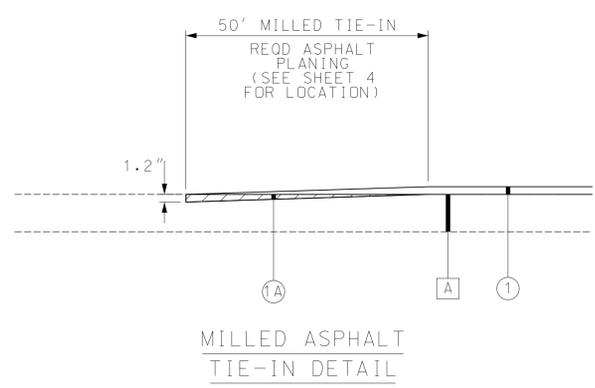
DESIGNED	C.D.W.	SCALE	PROJECT NUMBER
CHECKED	DATE	OB. 2018	OB. 18.005
SUBMITTAL		ISSUED FOR CONSTRUCTION	

PROJECT
 CITY OF ORANGE BEACH
 SR-161 INTERSECTION IMPROVEMENTS
 AT TERRY COVE DRIVE
 SHEET TITLE
 TRAFFIC SIGNAL PLAN NOTES

TYPICAL SECTIONS



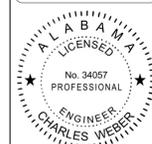
TYPICAL SECTION
TERRY COVE DR
NTS
STA 20+07.16 TO STA 22+30.00



MILLED ASPHALT
TIE-IN DETAIL

MATERIALS LEGEND	
A	IN PLACE: BITUMINOUS PAVEMENT (APPROXIMATE THICKNESS: 3.25") (RETAIN & OVERLAY)
1	REOD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (140 LB/SY)
1A	REOD: (408A-052) PLANING EXISTING PAVEMENT (APPROX. 1.10" THRU 2.0" THICK)
2	REOD: (424B-646) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, WIDENING, 3/4" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (195 LB/SY)
3	REOD: (401A-000) BITUMINOUS TREATMENT A
4	REOD: (301A-012) CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS (EXTEND 6" BEYOND OVERLYING BINDER LAYER)
5	REOD: (230A-000) ROADBED PROCESSING (EXTEND 12" BEYOND OVERLYING BASE LAYER)
6	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR (210D-020) BORROW EXCAVATION (LOOSE TRUCKBED MEASUREMENT)(A-2 OR BETTER)
7	REOD: (650A-000) TOPSOIL
8	REOD: (654A-001) SOLID SODDING (BERMUDA)

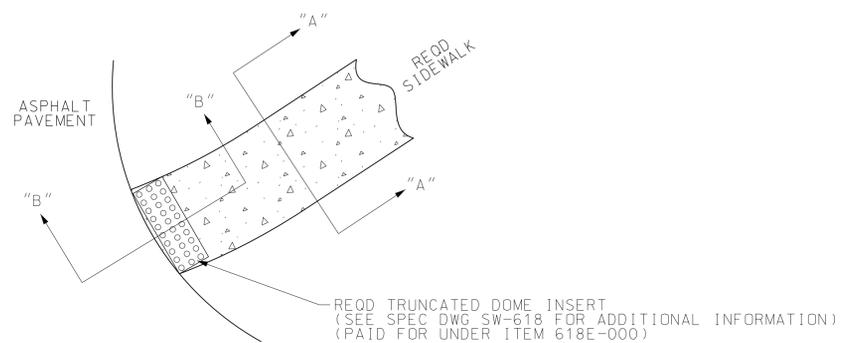
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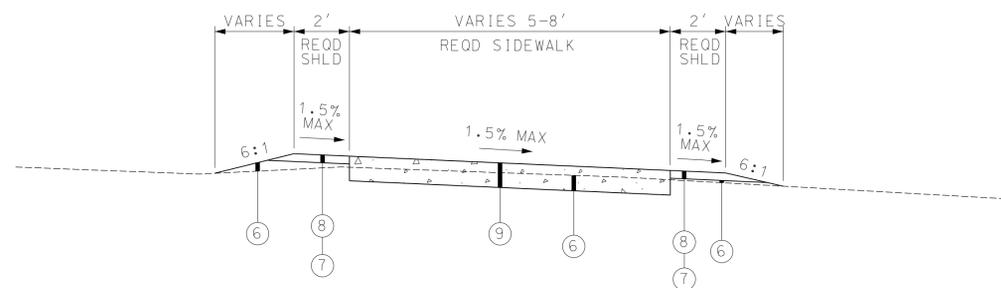
DESIGNED C.D.W.
 CHECKED DATE DEC 2018
 SCALE PROJECT NUMBER OB.18.005
 PLAN SUBMITTAL ISSUED FOR CONSTRUCTION

PROJECT CITY OF ORANGE BEACH
 SR-161 INTERSECTION IMPROVEMENTS
 AT TERRY COVE DRIVE
 SHEET TITLE TYPICAL SECTIONS

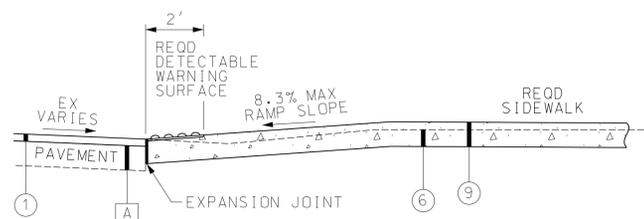
TYPICAL SECTIONS



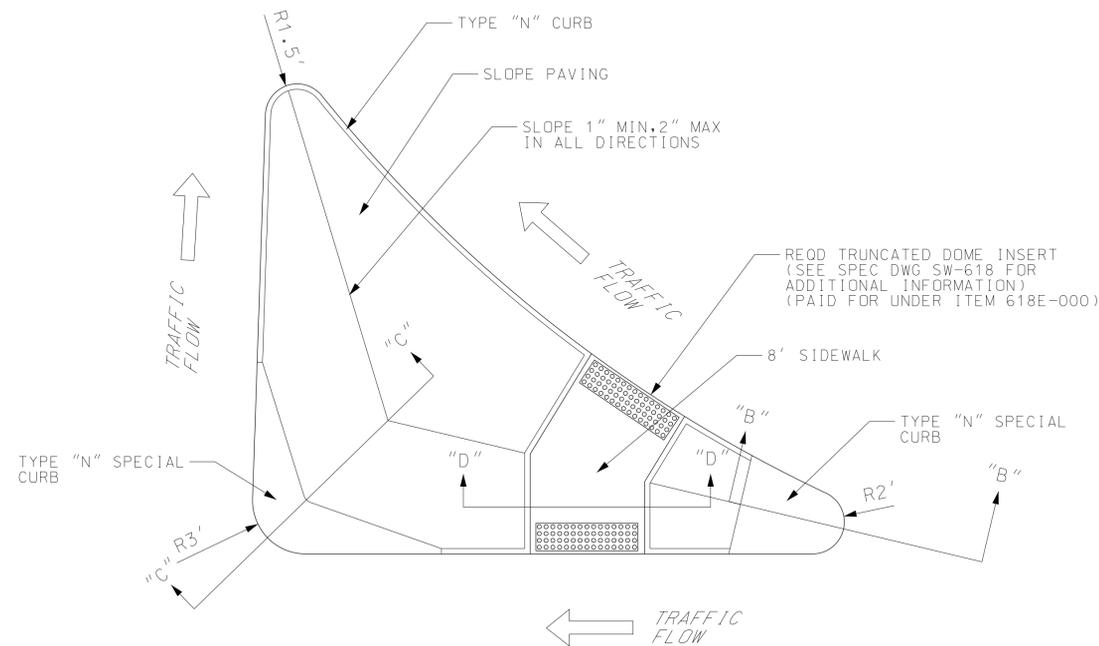
SIDEWALK DETAIL



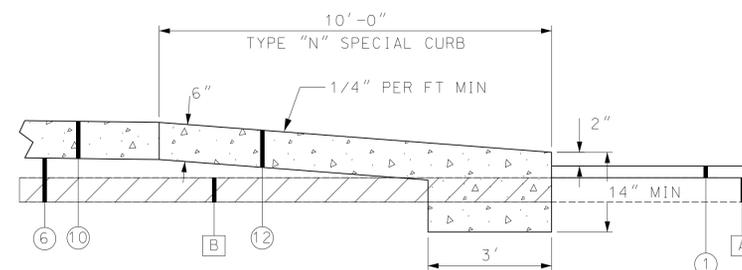
SECTION "A-A"



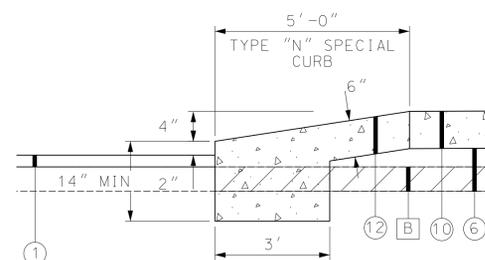
SECTION "B-B"



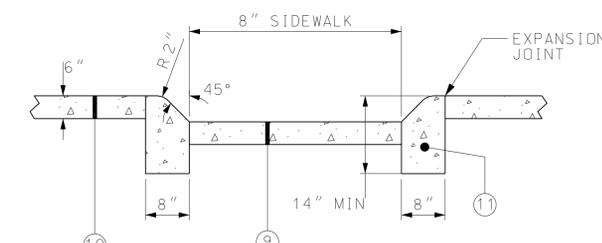
DETAILS OF TYPICAL CONCRETE ISLAND
(FOR ADDITIONAL DETAILS SEE SPEC DWG 623-N SPEC)



SECTION "B-B"



SECTION "C-C"

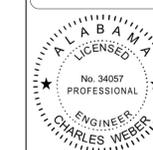


SECTION "D-D"

MATERIALS LEGEND	
A	IN PLACE: BITUMINOUS PAVEMENT (APPROXIMATE THICKNESS: 3.25") (RETAIN & OVERLAY)
B	IN PLACE: BITUMINOUS PAVEMENT (APPROXIMATE THICKNESS: 3.25") (REMOVE)
1	REOD: (424A-340) SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (140 LB/SY)
6	REOD: (210A-000) UNCLASSIFIED EXCAVATION OR (210D-020) BORROW EXCAVATION (LOOSE TRUCKBED MEASUREMENT)(A-2 OR BETTER)
7	REOD: (650A-000) TOPSOIL
8	REOD: (654A-001) SOLID SODDING (BERMUDA)
9	REOD: (618A-001) CONCRETE SIDEWALK, 6" THICK
10	REOD: (614A-000) SLOPE PAVING
11	REOD: (623B-000) CONCRETE CURB, TYPE N
12	REOD: (623B-001) CONCRETE CURB, TYPE N SPECIAL

SHEET NUMBER 2A

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PROJECT NUMBER OB.18.005
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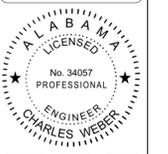
PROJECT CITY OF ORANGE BEACH
SR-161 INTERSECTION IMPROVEMENTS
AT TERRY COVE DRIVE

SHEET TITLE
TYPICAL SECTIONS

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES				
ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	
201A-002	CLEARING AND GRUBBING (APPROX. 0.10 ACRES)	LS	1.00	
206C-000	REMOVING CONCRETE SIDEWALK	SY	66.00	
206D-000	REMOVING PIPE	LF	26.00	
206E-000	REMOVING HEADWALLS	EA	2.00	
210A-000	UNCLASSIFIED EXCAVATION	CY	28.00	
210D-020	BORROW EXCAVATION (LOOSE TRUCKBED MEASUREMENT)(A2 OR BETTER)	CY (TBM)	22.00	
212A-000	MACHINE GRADING SHOULDERS	STA	2.00	
230A-000	ROADBED PROCESSING	STA	2.00	
301A-012	CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS	SY	111.00	
401A-000	BITUMINOUS TREATMENT A	SY	111.00	
405A-000	TACK COAT	GAL	105.00	
408A-052	PLANING EXISTING PAVEMENT 1.2 INCHES (APPROX. 1.10" THRU 2.0" THICK)	SY	648.00	
424A-340	SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (140 LBS/SY)	TON	81.00	
424B-646	SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, WIDENING, 3/4" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE A/B (195 LBS/SY)	TON	11.00	
535B-088	22" SPAN, 14" RISE SIDE DRAIN PIPE (CLASS 3 R.C.)	LF	28.00	
600A-000	MOBILIZATION	LS	1.00	
614A-000	SLOPE PAVING	CY	10.00	
618A-001	CONCRETE SIDEWALK, 6" THICK	SY	70.00	
618E-000	REGULAR AND MODIFIED TRUNCATED DOME INSERT FOR NEW OR EXISTING HANDICAP RAMPS	EA	4.00	
619B-116	22" SPAN, 14" RISE SIDE DRAIN PIPE END TREATMENT, CLASS 1	EA	2.00	
623B-000	CONCRETE CURB, TYPE N	LF	85.00	
623B-001	CONCRETE CURB, TYPE N SPECIAL	LF	29.00	
650A-000	TOPSOIL	CY	15.00	
654A-001	SOLID SODDING (BERMUDA)	SY	300.00	
665J-002	SILT FENCE	LF	40.00	
665O-001	SILT FENCE REMOVAL	LF	40.00	
665Q-002	WATTLE	LF	40.00	
674A-000	CONSTRUCTION SAFETY FENCE	LF	150.00	
680A-001	GEOMETRIC CONTROLS	LS	1.00	
701A-227	SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	LF	432.00	
701A-230	SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	LF	300.00	
701B-207	DOTTED, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)	LF	100.00	
701C-001	SOLID TEMPORARY TRAFFIC STRIPE	LF	300.00	
703A-002	TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A	SF	553.00	
703B-002	TRAFFIC CONTROL LEGENDS, CLASS 2, TYPE A	SF	23.00	
703C-001	REMOVAL OF EXISTING TRAFFIC CONTROL MARKINGS OR LEGENDS (PLASTIC)	SF	237.00	
703D-002	TEMPORARY TRAFFIC CONTROL MARKINGS (PAINT)	SF	21.00	
705A-030	PAVEMENT MARKERS, CLASS A-H, TYPE 2-C	EA	40.00	
705A-037	PAVEMENT MARKERS, CLASS A-H, TYPE 2-D	EA	10.00	
710A-126	CLASS 8, ALUMINUM FLAT SIGN PANELS 0.08" THICK OR STEEL FLAT SIGN PANELS 14 GAUGE (TYPE IX BACKGROUND)	SF	31.00	
710B-021	ROADWAY SIGN POST (#3 U CHANNEL, GALVANIZED STEEL OR 2", 14 GA SQUARE TUBULAR STEEL)	LF	84.00	
710C-000	REMOVAL OF EXISTING ROADWAY SIGNS	LS	1.00	
711A-000	ROADWAY SIGN RELOCATION	LS	1.00	
730H-001	LOOP WIRE	LF	504.00	
730K-000	TRAFFIC SIGNAL JUNCTION BOX	EA	1.00	
740B-000	CONSTRUCTION SIGNS	SF	118.00	
740D-000	CHANNELIZING DRUMS	EA	40.00	
740E-000	CONES (36 INCHES HIGH)	EA	15.00	
740F-002	BARRICADES, TYPE III	EA	2.00	
740I-005	WARNING LIGHTS, TYPE B (DETACHABLE HEAD)	EA	2.00	
740M-001	BALLAST FOR CONE	EA	15.00	

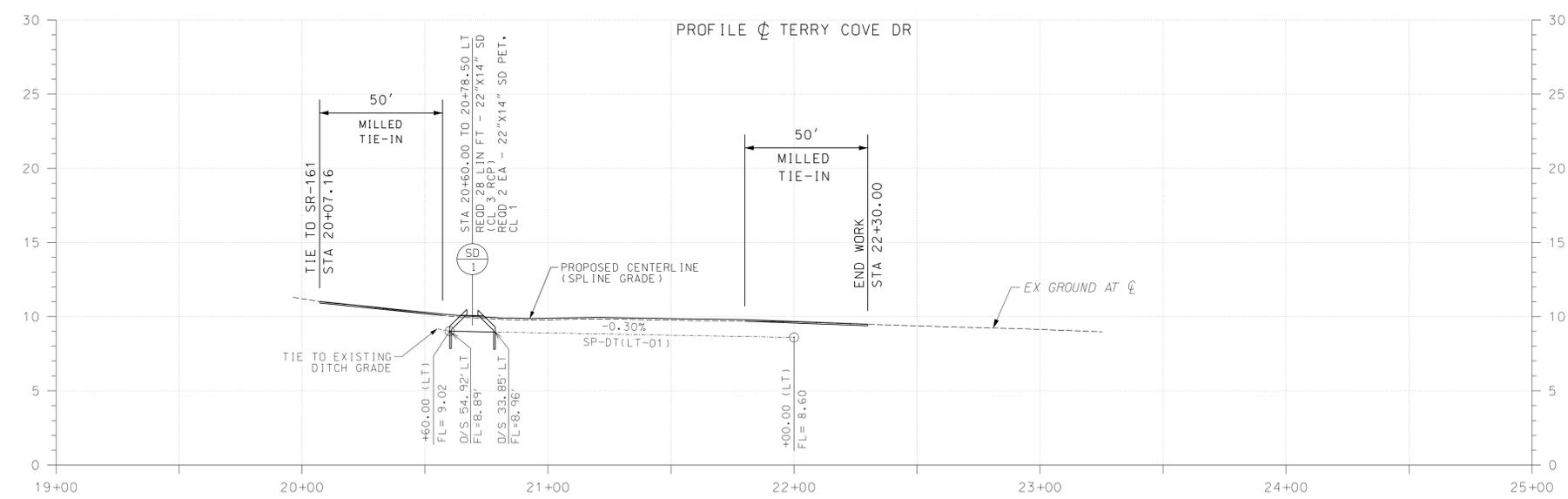
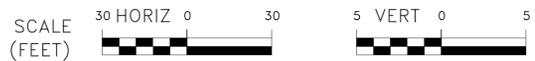
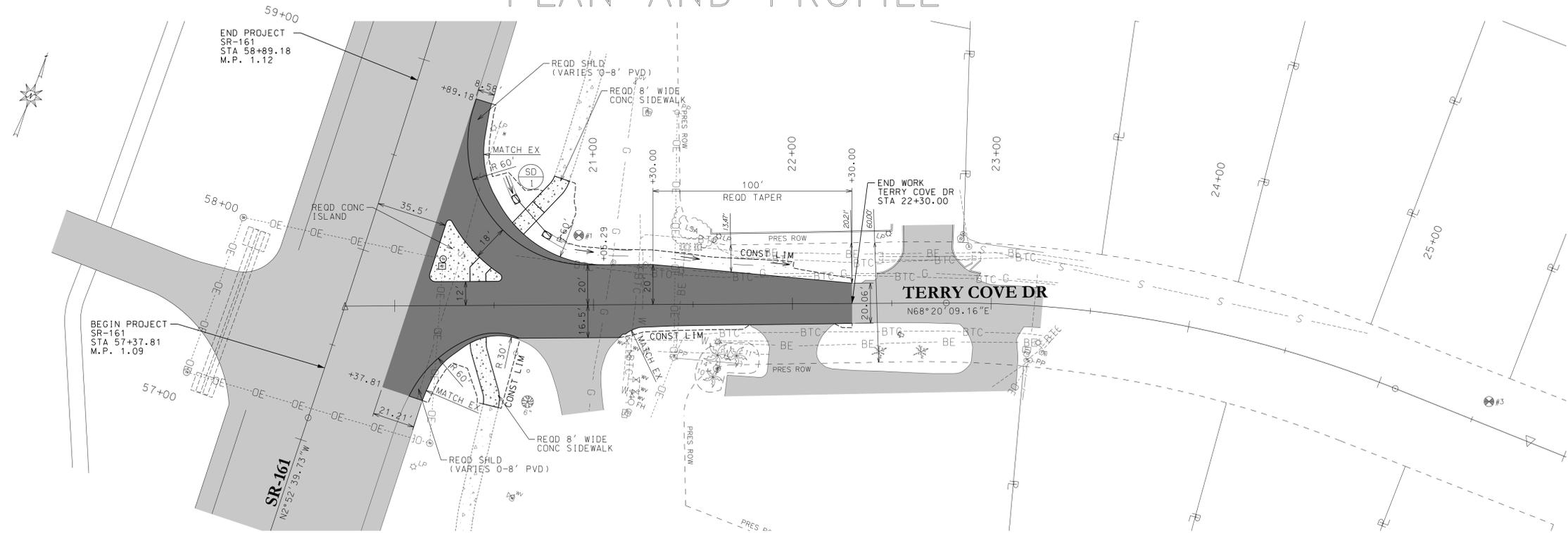
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 CHECKED
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 PLAN SUBMITTAL ISSUED FOR CONSTRUCTION

PROJECT CITY OF ORANGE BEACH
 SR-161 INTERSECTION IMPROVEMENTS
 AT TERRY COVE DRIVE
 SHEET TITLE SUMMARY OF QUANTITIES

PLAN AND PROFILE



SHEET NUMBER 5

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BURK-KLEINPETER, INC.
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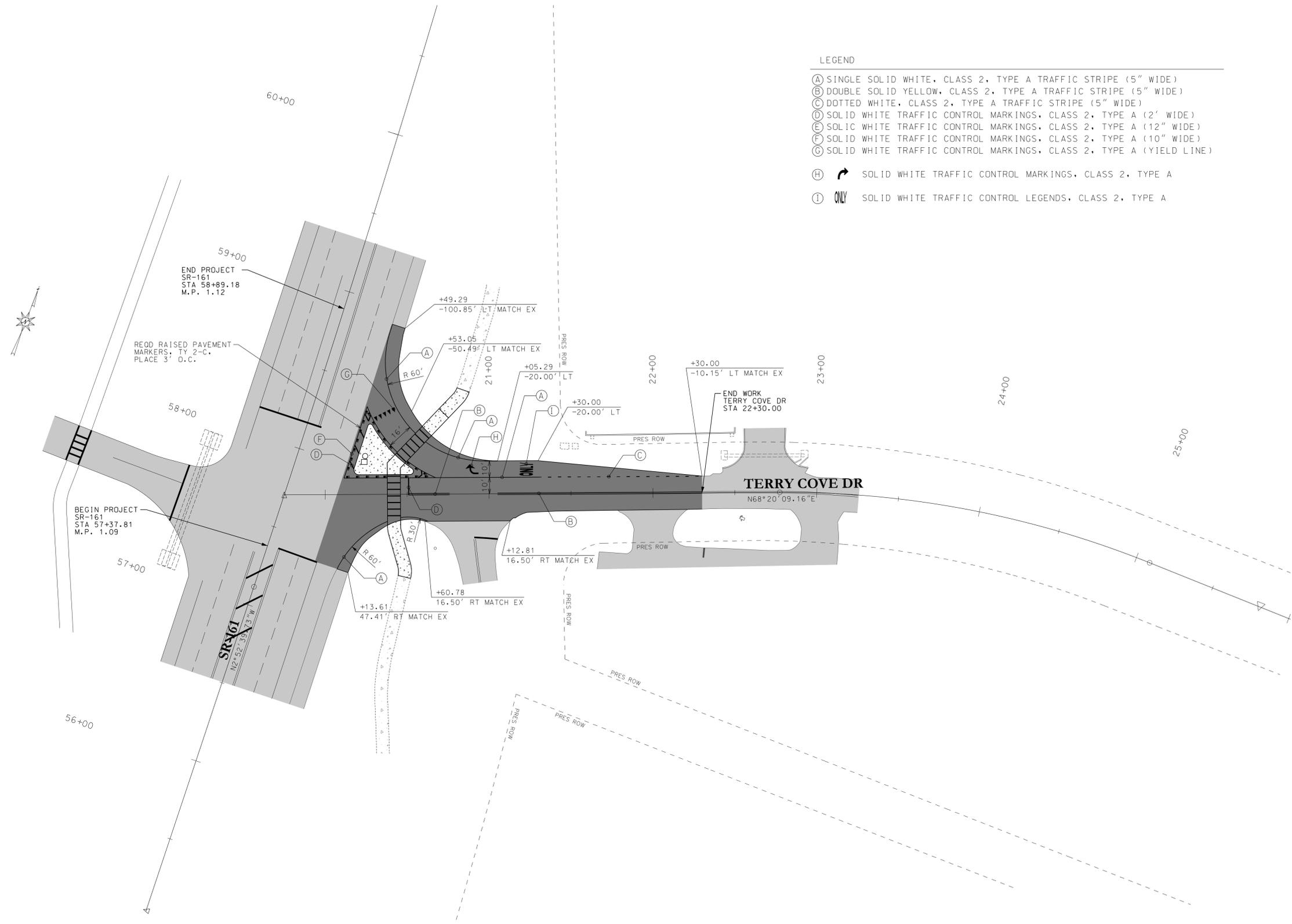
SCALE HORIZ 1" = 30'
 VERT 1" = 5'
 PROJECT NUMBER OB.18.005
 NUMBER

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 PLAN SUBMITTAL ISSUED FOR CONSTRUCTION

PROJECT CITY OF ORANGE BEACH
 SR-161 INTERSECTION IMPROVEMENTS
 AT TERRY COVE DRIVE

SHEET TITLE PLAN AND PROFILE

PAVING AND STRIPING LAYOUT

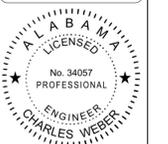


LEGEND

- (A) SINGLE SOLID WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
- (B) DOUBLE SOLID YELLOW, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
- (C) DOTTED WHITE, CLASS 2, TYPE A TRAFFIC STRIPE (5" WIDE)
- (D) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (2' WIDE)
- (E) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (12" WIDE)
- (F) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (10" WIDE)
- (G) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A (YIELD LINE)
- (H) SOLID WHITE TRAFFIC CONTROL MARKINGS, CLASS 2, TYPE A
- (I) SOLID WHITE TRAFFIC CONTROL LEGENDS, CLASS 2, TYPE A

SHEET NUMBER 6

BKI
BURK-KLEINPETER, INC.
 ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
 4751 MAIN STREET, SUITE F-212
 ORANGE BEACH, ALABAMA 36561
 PHONE (251) 652-2410 FAX (251) 652-2417



DESIGNED	C.D.W.	SCALE	1" = 30'
CHECKED		PROJECT NUMBER	OB.18.005
DATE	DEC 2018	ISSUED FOR CONSTRUCTION	
PLAN SUBMITTAL			

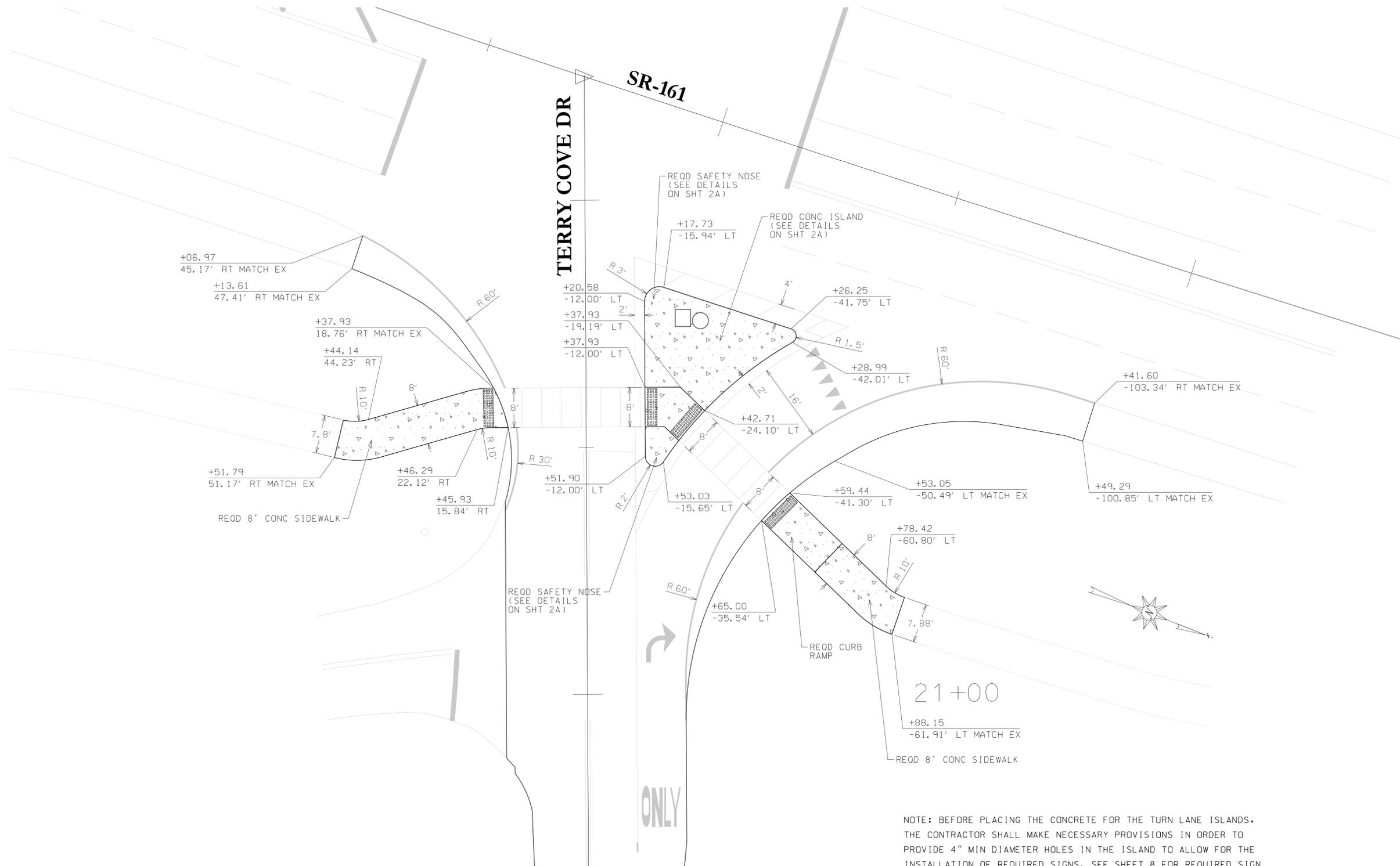
PROJECT
 CITY OF ORANGE BEACH
 SR-161 INTERSECTION IMPROVEMENTS
 AT TERRY COVE DRIVE

SHEET TITLE

SEE SHEET 6A
 FOR MORE DETAILS



PAVING LAYOUT DETAILS

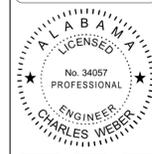


NOTE: BEFORE PLACING THE CONCRETE FOR THE TURN LANE ISLANDS, THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS IN ORDER TO PROVIDE 4" MIN DIAMETER HOLES IN THE ISLAND TO ALLOW FOR THE INSTALLATION OF REQUIRED SIGNS. SEE SHEET 8 FOR REQUIRED SIGN LOCATIONS.



SHEET NUMBER 6A

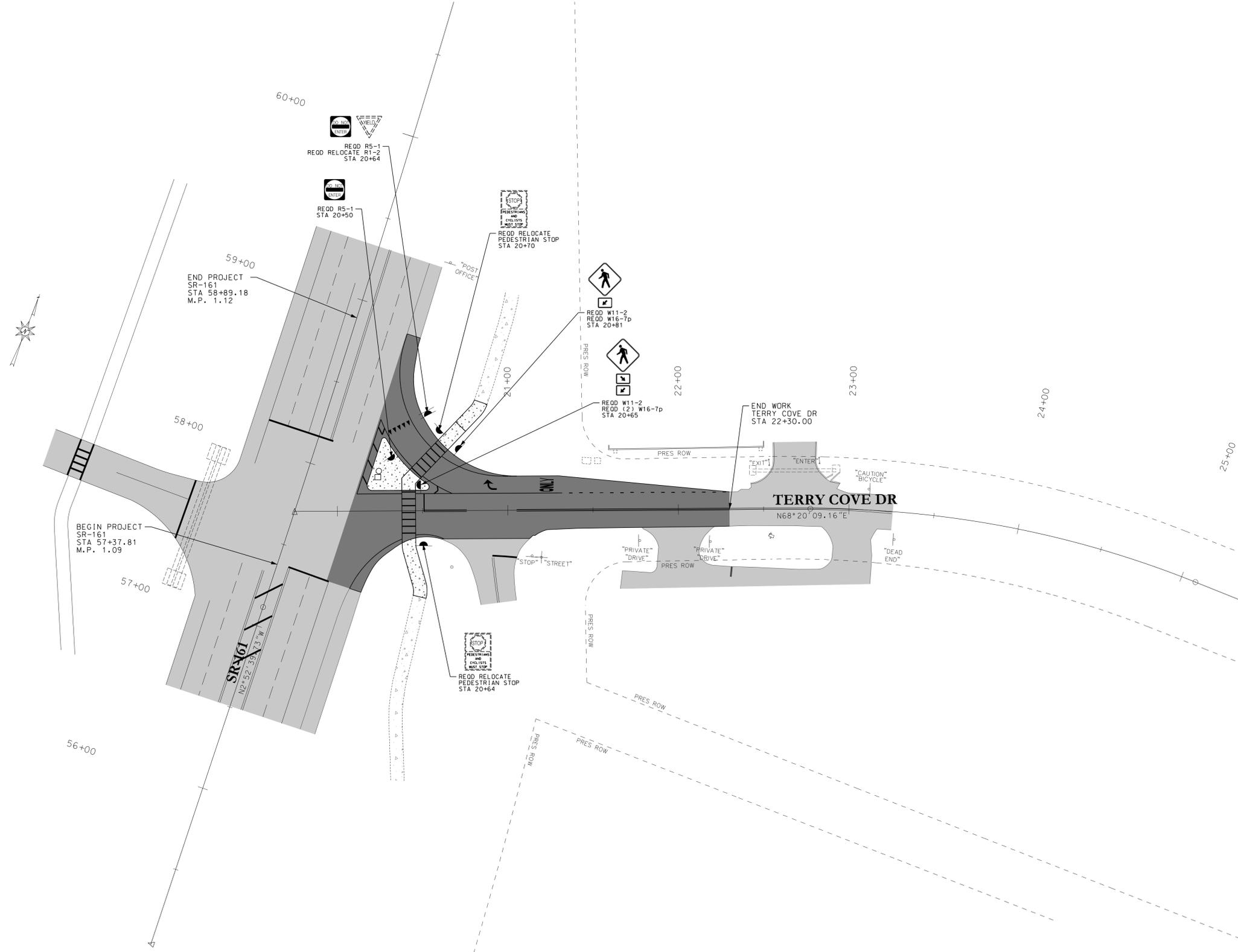
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DESIGNED	C.D.W.	SCALE	1" = 10'
CHECKED		PROJECT NUMBER	OB.18.005
DATE	DEC 2018	ISSUED FOR CONSTRUCTION	
PLAN SUBMITTAL			

PROJECT CITY OF ORANGE BEACH
 SR-161 INTERSECTION IMPROVEMENTS
 AT TERRY COVE DRIVE
 SHEET TITLE PAVING LAYOUT DETAILS

SIGNING LAYOUT



SHEET NUMBER 7

BKI
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DESIGNED	C.D.W.	SCALE	1" = 30'
CHECKED		PROJECT NUMBER	OB.18.005
DATE	DEC 2018	ISSUED FOR CONSTRUCTION	
PLAN SUBMITTAL			

PROJECT
 CITY OF ORANGE BEACH
 SR-161 INTERSECTION IMPROVEMENTS
 AT TERRY COVE DRIVE

SHEET TITLE
 SIGNING LAYOUT

TRAFFIC AND EROSION CONTROL NOTES

TRAFFIC CONTROL NOTES

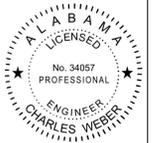
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR STRICT COMPLIANCE WITH PART VI OF THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, AND SHALL DEFEND THE ENGINEER AND THE COUNTY OF MOBILE AGAINST ALL LIABILITY, CLAIM OF LIABILITY, LOSS, COST OR DAMAGE, INCLUDING DEATH, AND LOSS OF SERVICES, ON ACCOUNT OF INJURY TO PERSONS OR PROPERTY, OCCURRING FROM ANY CAUSE WHATSOEVER, AS A RESULT OF CONSTRUCTION ACTIVITY INVOLVED IN THIS PROJECT. THE CONTRACTOR WILL, AT HIS EXPENSE, DEFEND ON BEHALF OF THE ENGINEER, CITY OF ORANGE BEACH AND THEIR OFFICERS AND EMPLOYEES, ALL SUITS BROUGHT AGAINST THEM OR ANY OF THEM, ARISING FROM ANY SUCH CAUSE.
2. THE CONTRACTOR SHALL HAVE AVAILABLE ADEQUATE PERSONNEL AND EQUIPMENT FOR TRAFFIC CONTROL AND SHALL NOT PERFORM ANY WORK WITHIN THE CITY OF ORANGE BEACH RIGHT OF WAY WHEN ADEQUATE PERSONNEL AND EQUIPMENT ARE NOT AVAILABLE.
3. TRAFFIC CONTROL DEVICES SHOWN ARE CONSIDERED TO BE THE MINIMUM REQUIRED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADDITIONAL TRAFFIC CONTROL DEVICES OTHER THAN THOSE SHOWN WHEN ROADWAY AND TRAFFIC CONDITIONS WARRANT.
4. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED AT THE COMPLETION OF THE WORK WHEN THE WORK AREA IS OPENED TO TRAFFIC.
5. ALL TRAFFIC CONTROL DEVICES THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME SHALL BE COVERED OR REMOVED.
6. ALL VEHICLES, EQUIPMENT AND WORKERS (EXCLUDING FLAGGERS) AND THEIR ACTIVITIES SHOULD BE RESTRICTED TO ONE SIDE OF THE ROADWAY UNLESS THE NATURE OF THE CONSTRUCTION OR MAINTENANCE OPERATION REQUIRES OTHERWISE.
7. ALL SIGNS SHALL BE POST-MOUNTED IF THE WORK PERIOD EXCEEDS FOUR DAYS EXCEPT FOR THOSE SIGNS THAT ARE MOUNTED ON BARRICADES. FOR REPEATED DAY OPERATIONS, IN THE SAME LOCATION, WHEN ALL DEVICES ARE REMOVED AT NIGHT, SIGNS MAY BE MOUNTED ON TEMPORARY SUPPORTS.
8. ANY OBSTACLES OR HAZARDS WITHIN THE WORK AREA SHALL BE MARKED IN ACCORDANCE WITH MUTCD, PART VI (LATEST EDITION).
9. THE SPACING BETWEEN CHANNELIZING DEVICES IN A WORK AREA SHALL BE 40' (MAXIMUM).
10. WARNING LIGHTS SHOULD BE USED TO MARK CHANNELIZING DEVICES AT NIGHT AS NEEDED.
11. CHANNELIZING DEVICES ARE TO BE EXTENDED TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.
12. DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS WITH THE APPROVAL OF THE ENGINEER.
13. TYPE I BARRICADES OR DRUMS MAY BE SUBSTITUTED FOR CONES (NO PAY ITEM FOR TYPE I BARRICADES).
14. HIGH LEVEL WARNING DEVICES SHOULD BE USED TO SUPPORT ANY SIGNS SHOWN WHEN TRAFFIC CONDITIONS WARRANT.
15. TYPE B HIGH INTENSITY WARNING LIGHTS SHOULD BE PLACED ON ADVANCE WARNINGS SIGNS.
16. TRAFFIC CONES SHALL BE PLACED AT 40' O/C PARALLEL TO THE TRAFFIC LANE, 20' O/C IN TAPERS.
17. ALL CONSTRUCTION SIGNS SHALL MEET ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION, 2018 EDITION.

EROSION CONTROL NOTES

1. ALL CLEARING OPERATIONS SHALL BE CONDUCTED IN A MANNER TO LIMIT EROSION OF MATERIALS FROM THE CONSTRUCTION AREA.
2. AT THE END OF EACH WORK DAY OR PERIOD, THE CONTRACTOR SHALL INSTALL NECESSARY RETENTION BERMS, HAYBALES OR SILT FENCE TO PREVENT EROSION OF MATERIALS PRIOR TO THE NEXT SCHEDULED WORK OR PERIOD.
3. REGULAR MAINTENANCE OF EROSION CONTROL AND SILTATION FACILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. THE ENGINEER SHALL HAVE THE RIGHT TO REQUIRE INSTALLATION OF ADDITIONAL FACILITIES IF DEEMED NECESSARY TO PROTECT ADJACENT AREAS.
5. EROSION CONTROL AND SILTATION FACILITIES SHALL BE REMOVED ON AN INDIVIDUAL BASIS ONLY AFTER SPECIFIC AREAS HAVE STABILIZED.
6. HAYBALES REMOVED, WHICH ARE IN GOOD CONDITION, SHALL BE DISPERSED AS MULCH IN ADJACENT OR OTHER AREAS, AS APPROVED BY THE ENGINEER, TO FACILITATE ESTABLISHMENT OF A PERMANENT GRASS STAND.
7. CONTRACTOR SHALL ADHERE TO THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL & STORM WATER MANAGEMENT ON CONSTRUCTION SITES & URBAN AREAS, VOLS. I & II, LATEST EDITION.
8. HAYBALES ARE NOT TO BE USED ON ALDOT ROW.

SHEET NUMBER 8

BKI
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 PHONE (251) 652-2410 FAX (251) 652-2417



DESIGNED CHECKED	C.D.W.	SCALE	PROJECT NUMBER
DATE	DEC 2018		OB. 18.005
PLAN SUBMITTAL		ISSUED FOR CONSTRUCTION	

PROJECT
**CITY OF ORANGE BEACH
 SR-161 INTERSECTION IMPROVEMENTS
 AT TERRY COVE DRIVE**

SHEET
 TITLE
TRAFFIC AND EROSION CONTROL NOTES

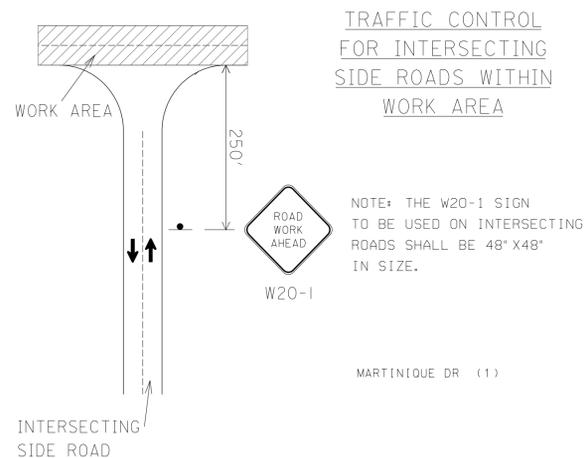
TRAFFIC CONTROL PLAN

SEQUENCE OF CONSTRUCTION

- PHASE I ● PLACE ALL APPLICABLE TRAFFIC CONTROL DEVICES.
● INSTALL BMPs AS SHOWN ON EROSION CONTROL PLAN.
- PHASE II ● CLOSE EXISTING SIDEWALK ON BOTH SIDES OF TERRY COVE DR AND REMOVE EXISTING TRAFFIC CONTROL MARKINGS AND YIELD LINE FOR EXISTING CROSS WALK ON TERRY COVE DR.
● CONSTRUCT WIDENING THROUGH UPPER BINDER LAYER ALONG NORTH SIDE OF TERRY COVE DR INCLUDING REQUIRED SIDEWALK AND DRAINAGE STRUCTURES.
● PLACE TEMPORARY STRIPING ALONG THE NEWLY WIDENED AREAS.
● OPEN NEWLY WIDENED AREAS TO TRAFFIC.
- PHASE III ● PLACE ALL APPLICABLE TRAFFIC CONTROL DEVICES.
● CONSTRUCT TURN LANE ISLANDS ON TERRY COVE DR AND CONSTRUCT REMAINDER OF REQUIRED SIDEWALK. USE TEMPORARY LANE CLOSURES AS NEEDED TO CONSTRUCT THE TURN LANE ISLANDS.
● PLACE TEMPORARY STRIPING.
- PHASE IV ● PLACE WEARING SURFACE ALONG ENTIRE PROJECT.
● PLACE PERMANENT STRIPING AND MARKINGS.
● RE-OPEN EXISTING SIDEWALK CROSSING ON TERRY COVE DR.
- PHASE V ● COMPLETE ANY REMAINING ITEMS OF WORK AND REMOVE BMPs.
● REMOVE TEMPORARY TRAFFIC CONTROL DEVICES.

NOTES:

1. ANY ITEM OF WORK MAY BE PERFORMED CONCURRENTLY WITH OTHER ITEMS OF WORK WITH THE APPROVAL OF THE ENGINEER AS LONG AS THERE IS NO CONFLICT WITH OTHER SEQUENCED ITEMS.



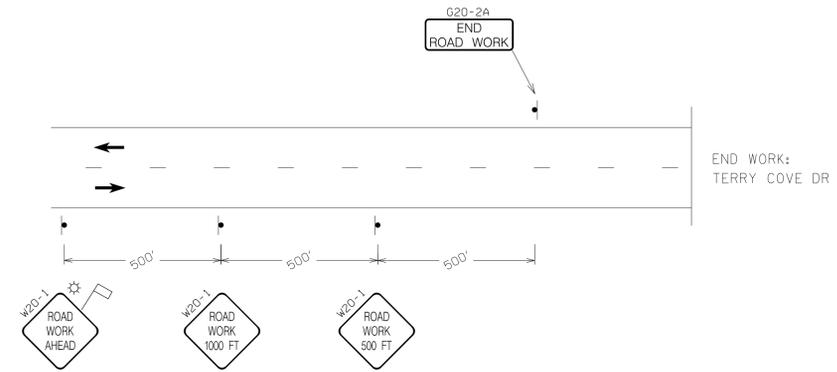
TRAFFIC CONTROL FOR INTERSECTING SIDE ROADS WITHIN WORK AREA

NOTE: THE W20-1 SIGN TO BE USED ON INTERSECTING ROADS SHALL BE 48" X 48" IN SIZE.

MARTINIQUE DR (1)

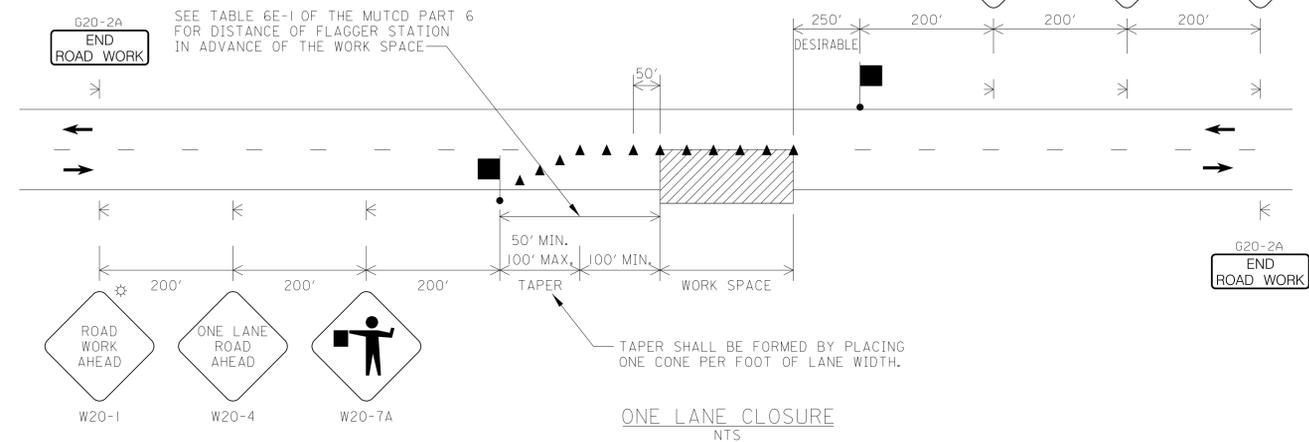
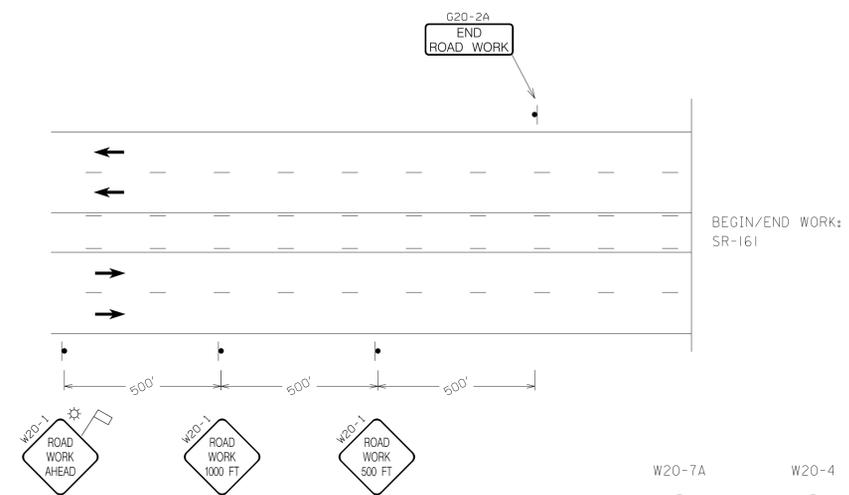
TYPICAL PLACEMENT FOR ADVANCE WARNING SIGNS

NTS



TYPICAL PLACEMENT FOR ADVANCE WARNING SIGNS

NTS



ONE LANE CLOSURE

NOTE: THE TRAFFIC CONTROL DEVICES SHOWN ABOVE SHALL NOT BE MEASURED FOR PAYMENT. MATERIALS, EQUIPMENT, AND MANPOWER SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.

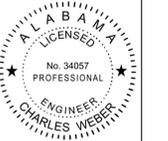
REQUIRED SIGN SIZES	
G20-2A	36" x 18"
R9-9	30" x 18"
W20-1	36" x 36"
W20-4	36" x 36"
W20-7A	36" x 36"

LEGEND

- ⚡ TEMPORARY MOUNTED SIGN
- ⚡ POST MOUNTED SIGN
- ▲ CONES
- FLAGGER

SHEET NUMBER 9

BKI
BURK-KLEINPETER, INC.
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4751 MAIN STREET, SUITE F-212
ORANGE BEACH, ALABAMA 36561
PHONE: (251) 652-2410 • FAX: (251) 652-2417



DESIGNED BY: C.D.W.
CHECKED BY: [Signature]
DATE: DEC 2018
PROJECT NUMBER: OB.18.005
SCALE: [Blank]
ISSUED FOR CONSTRUCTION SUBMITTAL

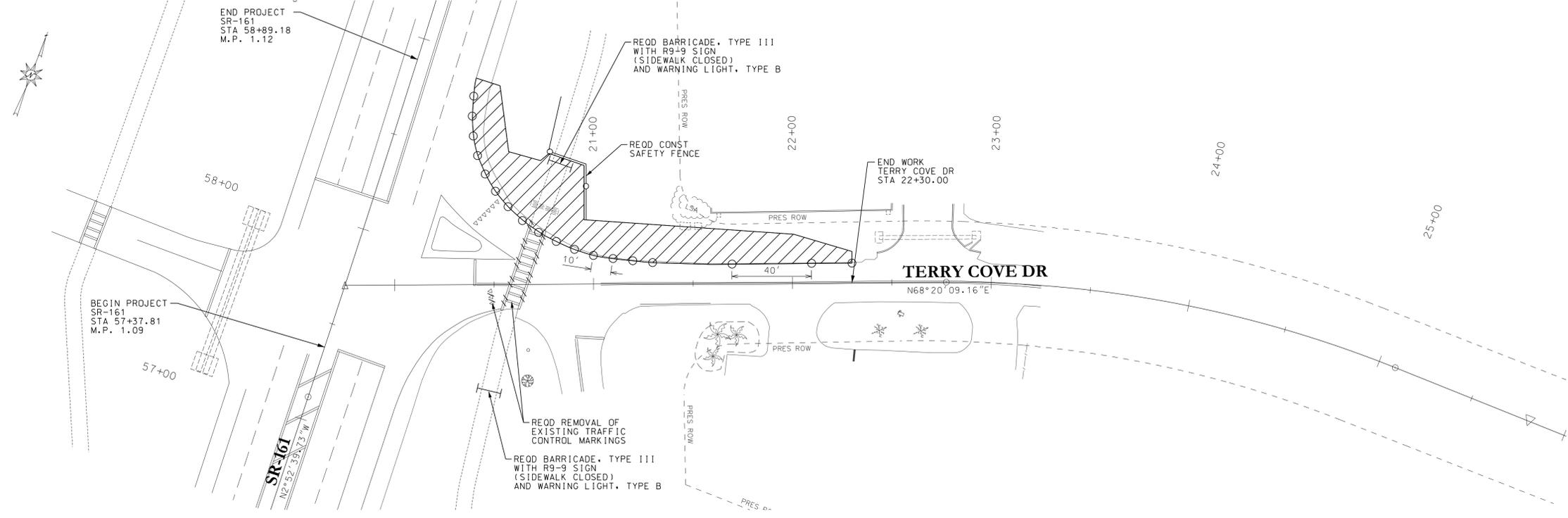
PROJECT: CITY OF ORANGE BEACH
SR-161 INTERSECTION IMPROVEMENTS
AT TERRY COVE DRIVE

TRAFFIC CONTROL PLAN

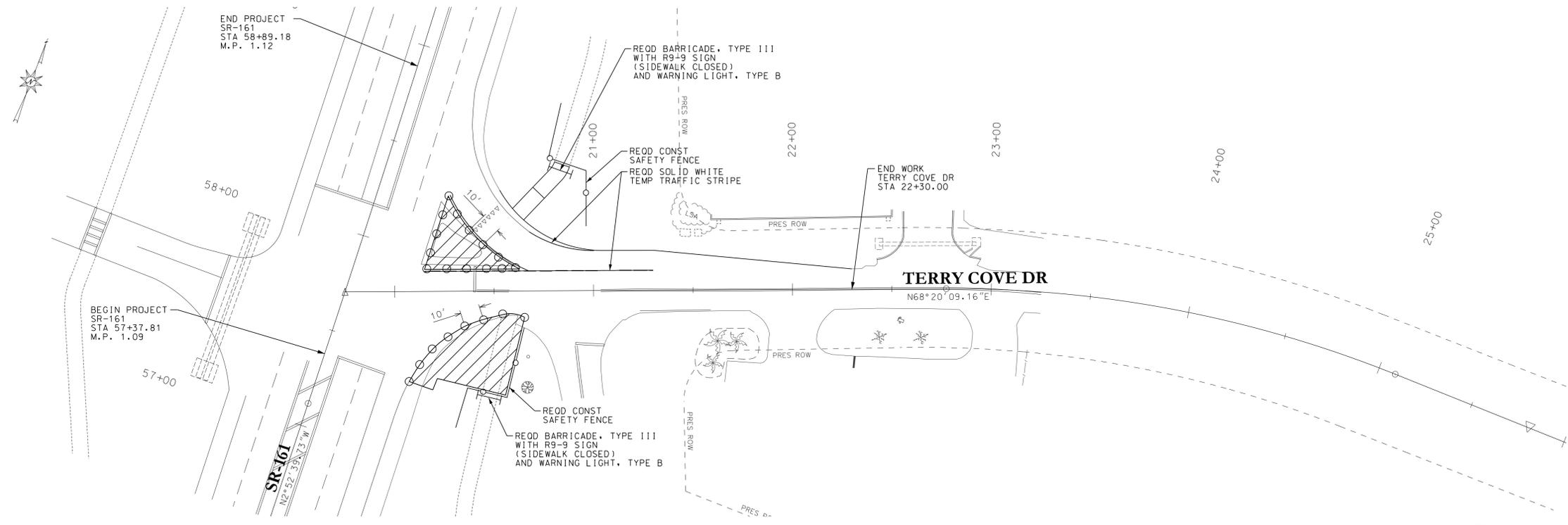
SHEET TITLE

TRAFFIC CONTROL PLAN

TERRY COVE DRIVE - PHASE II



TERRY COVE DRIVE - PHASE III



SHEET NUMBER **9A**

BKI
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 ORANGE BEACH, ALABAMA 36561
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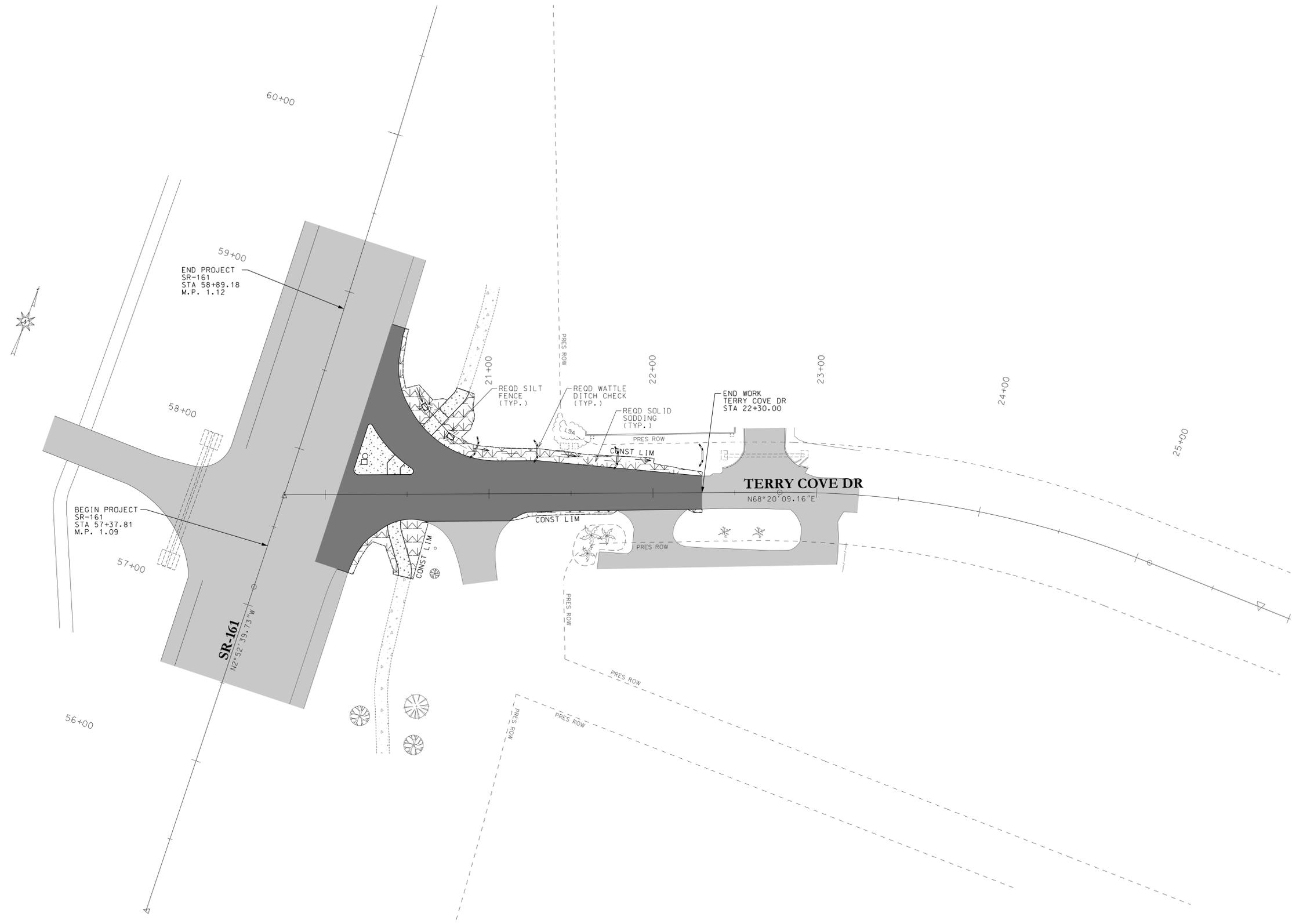
SCALE 1" = 30'
 PROJECT NUMBER OB.18.005
 PROJECT DATE DEC 2018

DESIGNED C.D.W.
 CHECKED
 DATE DEC 2018
 PLAN SUBMITTAL ISSUED FOR CONSTRUCTION

PROJECT CITY OF ORANGE BEACH
 SR-161 INTERSECTION IMPROVEMENTS
 AT TERRY COVE DRIVE

SHEET TITLE
 TRAFFIC CONTROL PLAN

EROSION CONTROL PLAN



SHEET NUMBER 10

BKI
BURK-KLEINPETER, INC.
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 ORANGE BEACH, ALABAMA 36561
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CHECKED		PROJECT	OB.18.005
DATE	DEC 2018	NUMBER	
PLAN	SUBMITTAL	ISSUED FOR CONSTRUCTION	

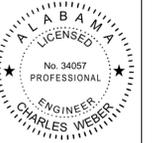
PROJECT CITY OF ORANGE BEACH
 SR-161 INTERSECTION IMPROVEMENTS
 AT TERRY COVE DRIVE
 SHEET TITLE EROSION CONTROL PLAN

TRAFFIC SIGNAL REMOVAL PLAN



LOOP WIRE REMOVAL DIAGRAM
NOT TO SCALE

TRAFFIC SIGNAL REMOVAL NOTES:
1. THE INSTALLER SHALL COORDINATE WITH THE ALABAMA DEPARTMENT OF TRANSPORTATION AND THE PROJECT GENERAL CONTRACTOR TO DETERMINE THE APPROPRIATE CONSTRUCTION PHASING AND TIMING FOR EACH TRAFFIC SIGNAL REMOVAL.

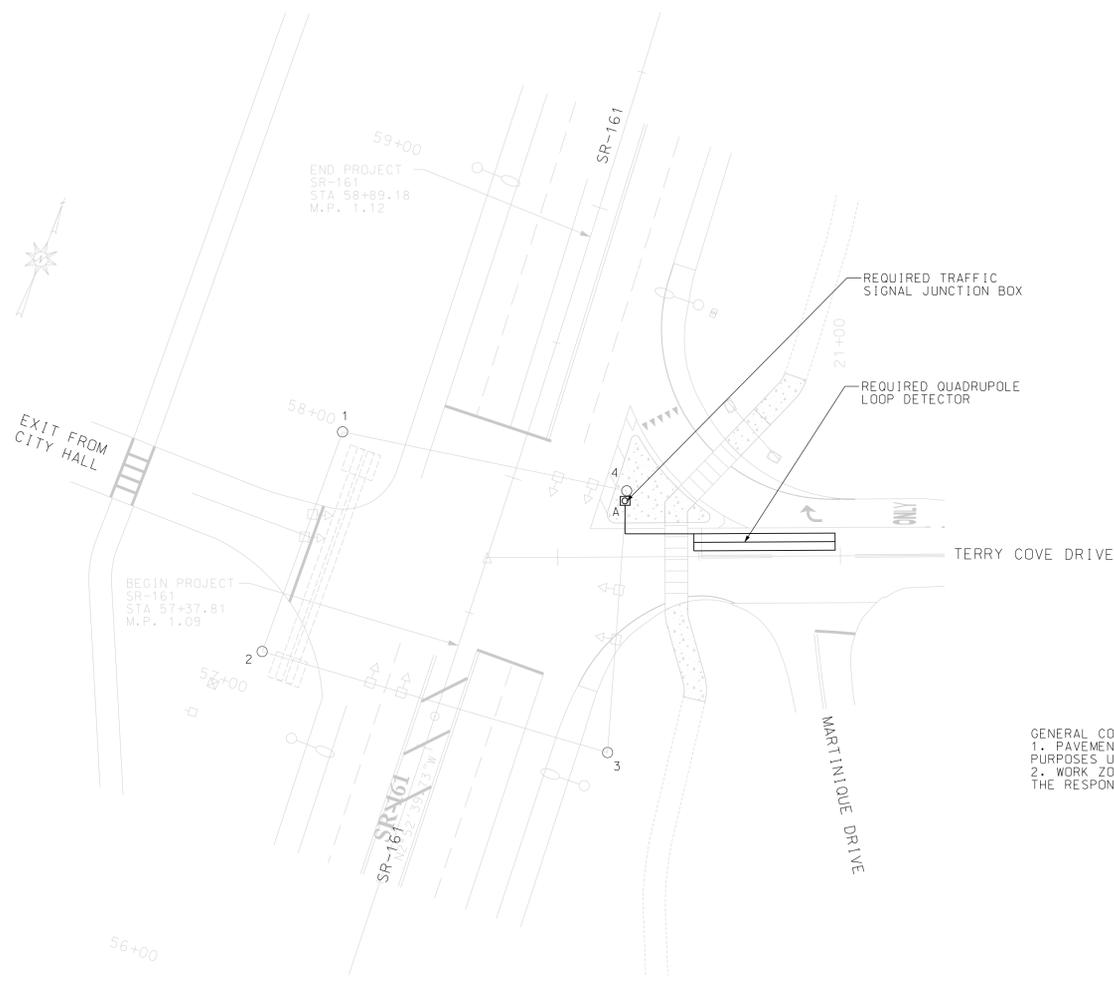
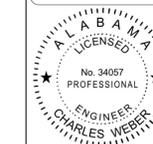


PROJECT	CITY OF ORANGE BEACH SR-161 INTERSECTION IMPROVEMENTS AT TERRY COVE DRIVE	DESIGNED	C.D.W.	SCALE	
CHECKED		DATE	DEC 2018	PROJECT NUMBER	OB.18.005
SHEET TITLE	TRAFFIC SIGNAL REMOVAL PLAN	PLAN SUBMITTAL	ISSUED FOR CONSTRUCTION		

TRAFFIC SIGNAL LAYOUT PLAN

SHEET NUMBER 11A

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GENERAL CONSTRUCTION NOTES:
 1. PAVEMENT MARKINGS ARE SHOWN FOR ILLUSTRATIVE PURPOSES UNLESS OTHERWISE NOTED.
 2. WORK ZONE SAFETY AND TEMPORARY TRAFFIC CONTROL IS THE RESPONSIBILITY OF THE INSTALLER.

LOOP WIRE INSTALLATION DIAGRAM
 NOT TO SCALE

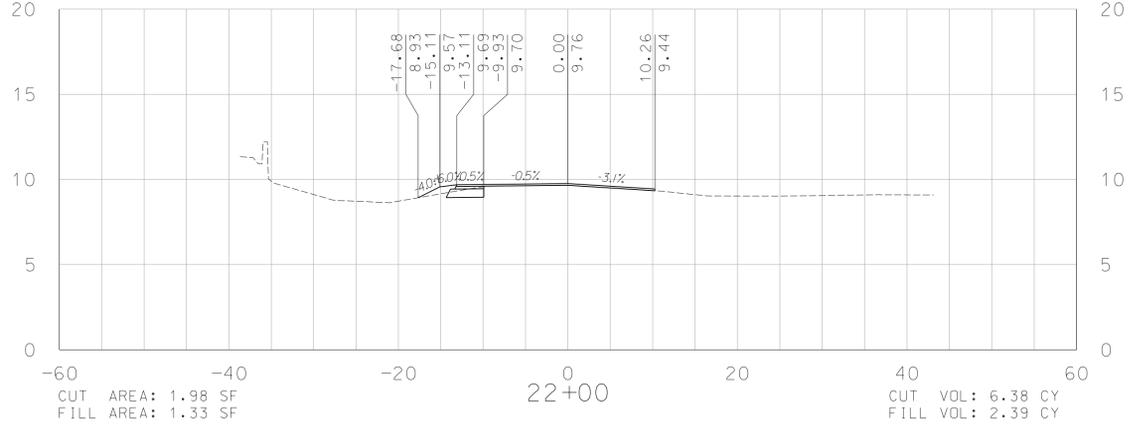
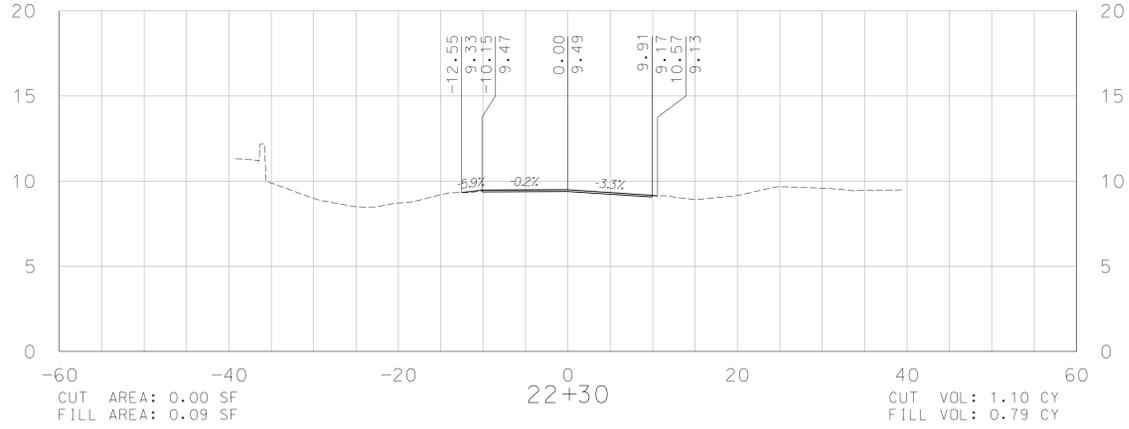
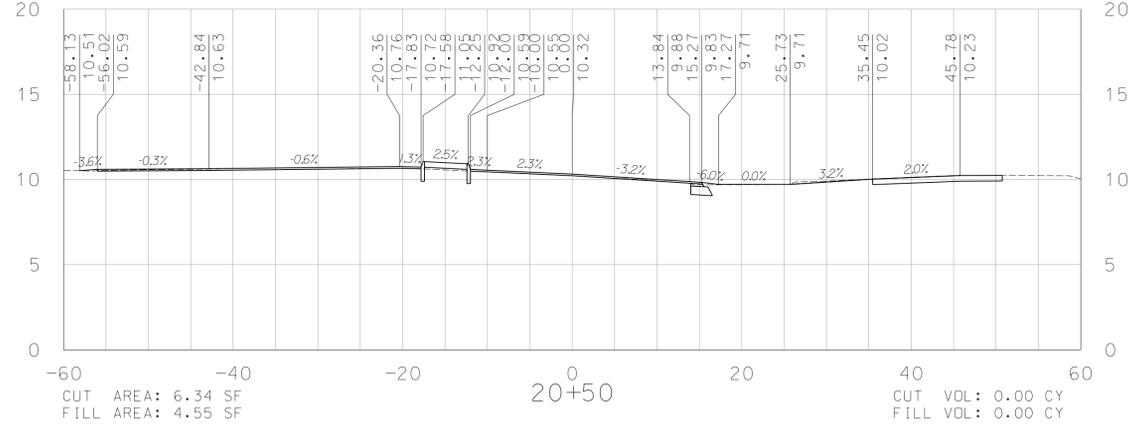
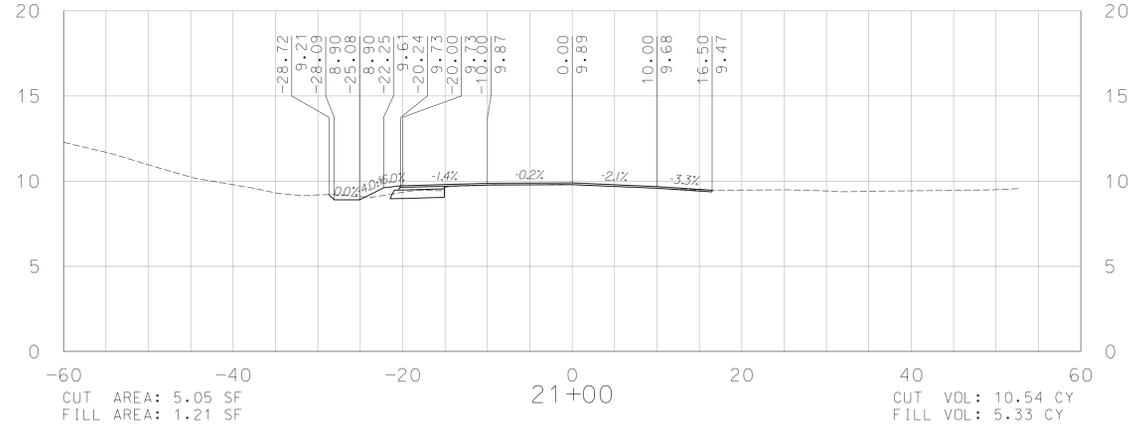
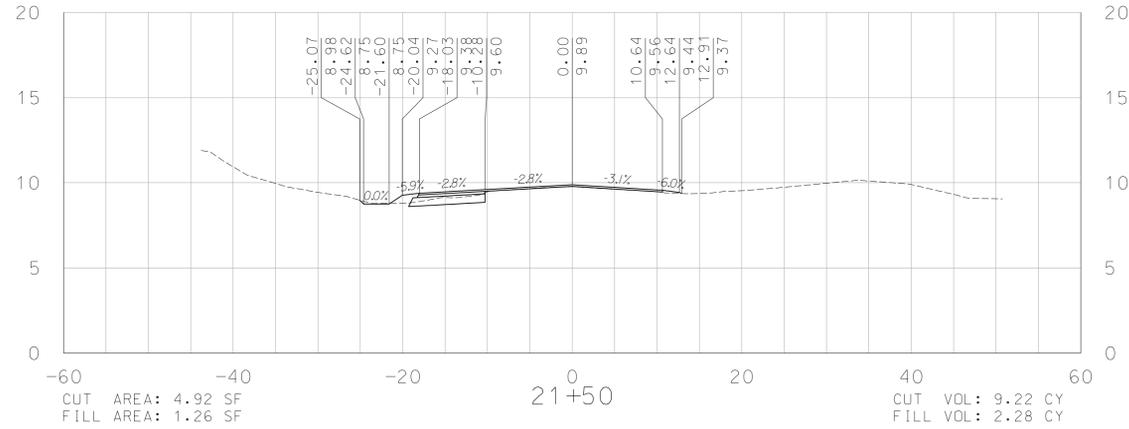
VEHICLE DETECTOR SCHEDULE							
DETECTOR NUMBER	PHASE	AMP #	CHANNEL #	SIZE	LOOP TURNS	OPERATION TYPE	LOCATION/COMMENTS
RETAINED	RETAINED	RETAINED	RETAINED	6' x 50'	2-4-2	PRESENCE (QUAD)	REPLACE EXISTING LOOP DETECTOR AND TRAFFIC SIGNAL JUNCTION BOX ONLY

SUPPORTING STRUCTURES			
POLE NO.	POLE LENGTH (APPROX)	POLE LOCATIONS (APPROX)	COMMENTS
1	37'	STA 57+97, 62' LT	EXISTING POLE (RETAIN)
2	37'	STA 57+14, 65' LT	EXISTING POLE (RETAIN)
3	37'	STA 57+19, 62' RT	EXISTING POLE (RETAIN)
4	37'	STA 58+08, 40' RT	EXISTING POLE (RETAIN)

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		OB. 18.005
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PROJECT CITY OF ORANGE BEACH
 SR-161 INTERSECTION IMPROVEMENTS
 AT TERRY COVE DRIVE
 SHEET TITLE TRAFFIC SIGNAL LAYOUT PLAN

CROSS SECTIONS



Sta 20+50 to Sta 22+30



SHEET NUMBER 12

BKI
BURK-KLEINPETER, INC.
ENGINEERS, ARCHITECTS, PLANNERS, ENVIRONMENTAL SCIENTISTS
4751 MAIN STREET, SUITE F-212
ORANGE BEACH, ALABAMA 36561
PHONE (251) 652-2410 FAX (251) 652-2417

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 34057 CHARLES WEBBER

DESIGNED CHECKED C.D.W.
DATE DEC 2018 PROJECT NUMBER OB.18.005
PLAN SUBMITTAL ISSUED FOR CONSTRUCTION

PROJECT CITY OF ORANGE BEACH
SR-161 INTERSECTION IMPROVEMENTS
AT TERRY COVE DRIVE

SHEET TITLE CROSS SECTIONS