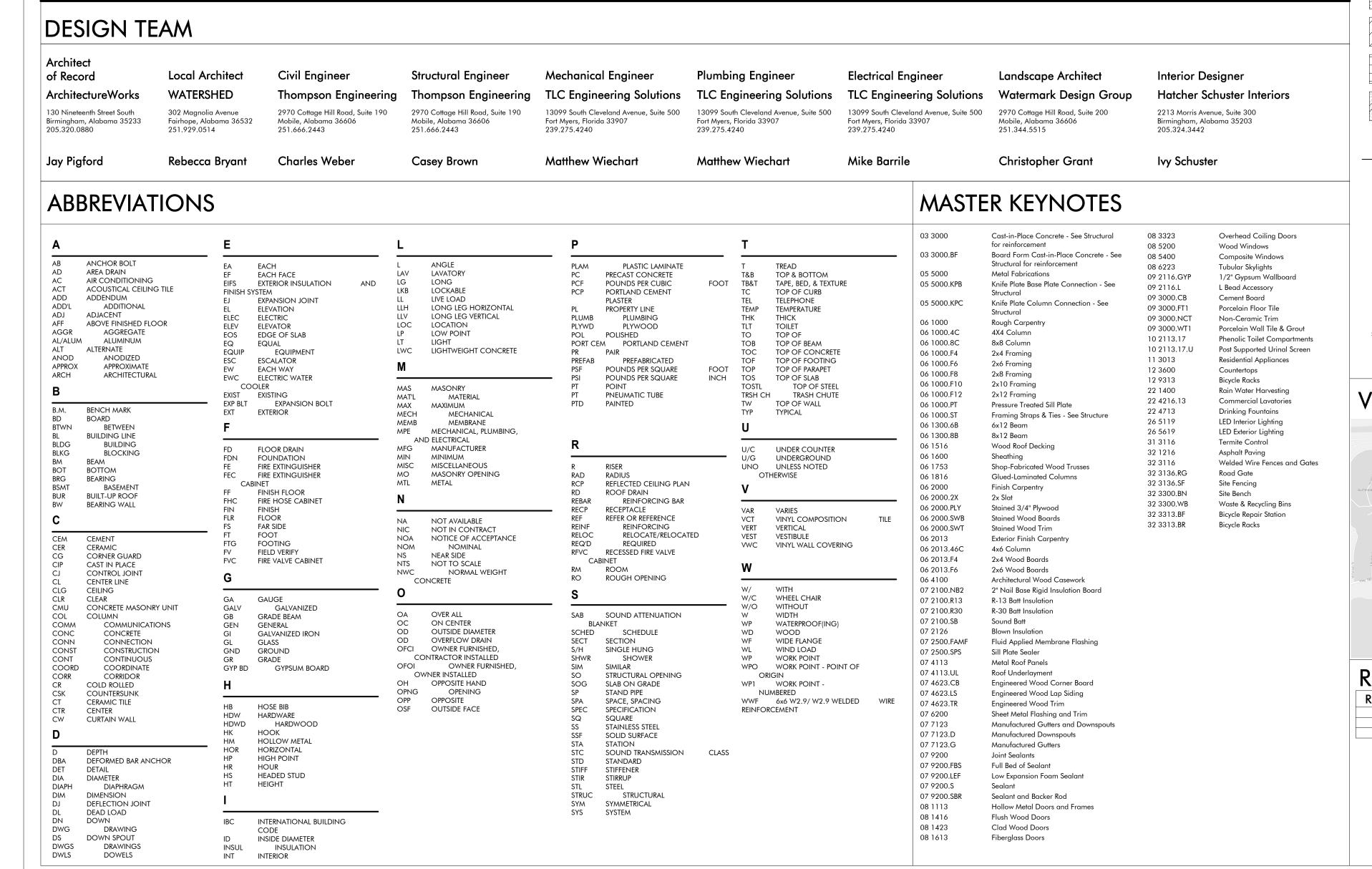
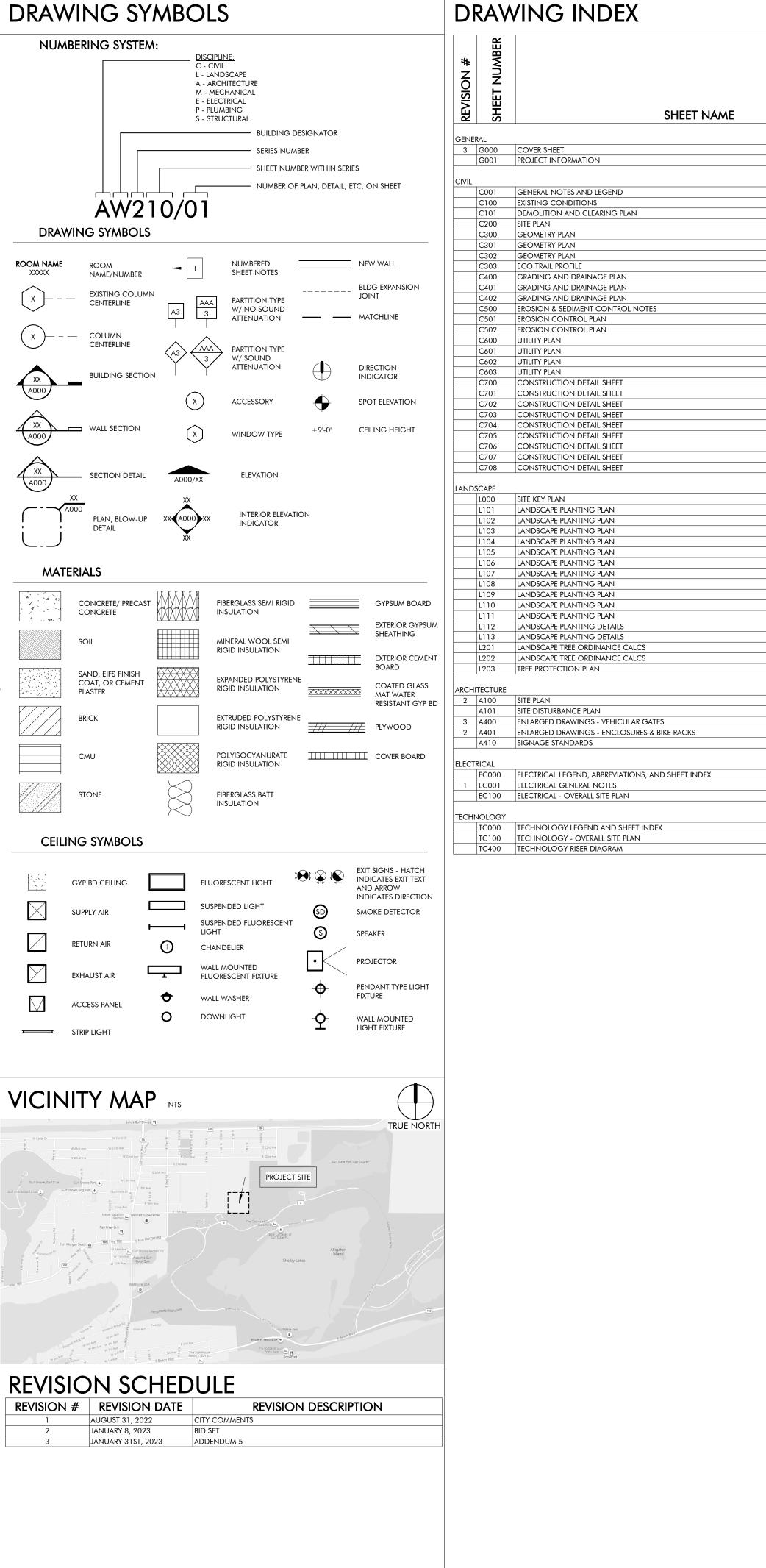
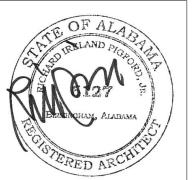
GULF COAST CENTER FOR ECOTOURISM & SUSTAINABILITY SITE & CIVIL PACKAGE

GULF SHORES, ALABAMA











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WATERSHED Building Sustainability

302 Magnolia Avenue Fairhope, AL 36532

p 251.929.0514

SUSTAINABILITY **TOURISM**

19-028.000

CONFORMANCE SET

MARCH 24, 2023

COVER SHEET

G000

1. GENERAL PROJECT INFORMATION

a. PROJECT INFORMATION SUMMARY

NAME OF PROJECT: GULF COAST CENTER FOR ECOTOURISM & SUSTAINABILITY

PROPOSED USE: BUSINESS

1650 ECO TRAIL LOCATION:

GULF SHORES, ALABAMA 35203

CLIMATE ZONE:

SPECIAL CONSIDERATIONS: N/A

b. OWNER INFORMATION

OWNER: CITY OF GULF SHORES

CONTACT PERSON: DANIEL BOND, ENVIRONMENTAL & GRANTS MANAGER

TELEPHONE 251.968.9825

c. APPLICABLE CODES

2021 INTERNATIONAL BUILDING CODE

2021 INTERNATIONAL MECHANICAL CODE

2018 INTERNATIONAL PLUMBING CODE

2021 INTERNATIONAL FUEL GAS CODE

2021 INTERNATIONAL FIRE CODE

2020 NATIONAL ELECTRICAL CODE (NFPA 70)

2021 INTERNATIONAL ENERGY CONSERVATION CODE

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

d. OCCUPANCY / CONSTRUCTION TYPE

OCCUPANCY CLASSIFICATION: MIXED OCCUPANCY

BUSINESS (GROUP B) ASSEMBLY (GROUP A-3)

(MOST RESTRICTIVE)

IBC SECTION 302

CONSTRUCTION TYPE: TYPE VB AUTOMATIC SPRINKLER SYSTEM:

IBC SECTION 602 IBC SECTION 903

2. GENERAL BUILDING HEIGHTS AND AREAS (CHAPTER 5)

ALLOWABLE AREAS:	A-3 = 6,000 SF (NOT SPRINKLED) B = 9,000 SF (NOT SPRINKLED)	IBC TABLE 506.2
ALLOWABLE HEIGHT ABOVE GRADE: (TYPE VB)	A, B = 40 FT; ACTUAL HT. XX FT	IBC TABLE 504.3
ALLOWABLE NUMBER OF STORIES: (TYPE VB)	A-3 = 1 STORY; ACTUAL 1-STORY B = 2 STORIES; ACTUAL 1-STORY	IBC TABLE 504.4
PROJECT AREAS	REFER TO SHEET G010 LIFE SAFETY FOR OVERALL & INDIVIDUAL BUILDING AREAS.	IBC SECTION 508.4.2

3. TYPES OF CONSTRUCTION (CHAPTER 6)

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (IBC TABLE 601)

STRUCTURAL ELEMENT	TYPE VB RATING (HRS)	TYPICAL STUCTURAL MEMEBER	UL DESIGN
PRIMARY STRUCTURAL FRAME	0	WOOD STUD FRAME	N/A
BEARING WALLS			
EXTERIOR	0	WOOD STUD	UL NO. U425
INTERIOR	0	WOOD STUD	
NONBEARING WALLS AND PARTITIONS			N1/A
EXTERIOR	SEE TABLE 602	WOOD STUD	N/A
NONBEARING WALLS AND PARITITIONS			NI/A
INTERIOR	0	WOOD STUD	N/A
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	SLAB ON GRADE	N/A
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0	WOOD TRUSS	N/A

FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPERATION DISTANCE (IBC TABLE

FIRE SEPERATION DISTANCE = X (FEET)	TYPE OF CONSTRUCTION	OCCUPANCY GROUP H	OCCUPANCY GROUP F-1, M, S-1	OCCUPANCY GROUP A, B, E, F-2, I, R, S-2, U
X ≥ 30	VB -	0	0	0
10 ≤ X < 30		1	0	0
(SEE LIFE SAFETY FOR SEPERATION DISTANCES)				

4. FIRE AND SMOKE PROTECTION FEATURES (CHAPTER 7)

MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION (IBC TABLE 705.8)

FIRE SEPARATION DISTANCE (FEET)	DEGREE OF OPENING PROTECTION	ALLOWABLE AREA	PROVIDED (SEE LIFE SAFETY PLAN)	
	UNPROTECTED, NONSPRINKLERED	45%	3,	
20 TO LESS THAN 25	UNPROTECTED, SPRINKLERED	NO LIMIT		
	PROTECTED	NO LIMIT		
	UNPROTECTED, NONSPRINKLERED	NO LIMIT		
30 OR GREATER	UNPROTECTED, SPRINKLERED	NO LIMIT	N/A	
	PROTECTED	NO LIMIT		

a. FIRE WALLS	IBC SECTION 706
	OT APPLICABLE
b. VERTICAL OPENINGS	IBC SECTION 712
	OT APPLICABLE
c. SHAFT ENCLOSURES	IBC SECTION 713
	OT APPLICABLE
d. PENETRATIONS	IBC SECTION 714
	OT APPLICABLE

OPENING FIRE PROTECTION ASSEMBLIES, RATING AND MARKINGS (IBC TABLE 716.1[2])

TYPE OF ASSEMBLY	REQUIRED WALL ASSEMBLY RATING	AND FIRE SHUTTER ASSEMBLY	DOOR VISION PANEL SIZE	FIRE-RATED GLAZING MARKING DOOR VISIONPANEL	MINIMUM SIDELIGHT TRANSOM ASSEMBLY RATING		FIRE-RATED MARK SIDELIGHT/ PAN	(ING TRANSOM
		RATING			FIRE PROTECTION	FIRE RESISTANCE	FIRE PROTECTION	FIRE RESISTANCE
EXTERIOR WALLS	0	N/A	MAX SIZE TESTED	N/A	N/A		N/	'A

FIRE WINDOW ASSEMBLY FIRE PROTECTION RATINGS (IBC TABLE 716.1131)	

TYPE OF WALL ASSEMBLY	REQUIRED WALL ASSEMBLY RATING (hours)	MINIMUM FIRE WINDOW ASSEBMLY RATING (hours)	FIRE-RATED GLAZING MARKING
EXTERIOR WALLS	N/A	N/A	N/A

5. MEANS OF EGRESS (CHAPTER 10)

REFER TO SHEET G010 LIFE SAFETY FOR OCCUPANT LOADS AT EACH BUILDING.

a. OCCUPANT LOAD	P FACTORS	
SMALL ASSEMBLY	A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.	IBC 303.1.2
SPACES	2. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT IS LESS THAN 750 SQUARE FEET IN AREA AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.	

b. MEANS OF EGRESS SIZING		IBC SECTION 1005
STAIRWAYS	OCCUPANT LOAD X .3 (inches) =	IBC 1005.3.1
STAIRWATS	REFER SHEET G010 FOR COMPONENT SIZING AT EACH BUILDING	IBC 1003.3.1
OTHER EGRESS	OCCUPANT LOAD X .2 (inches) =	IBC 1005.3.2
COMPONENTS	REFER SHEET G010 FOR COMPONENT SIZING AT EACH BUILDING	IBC 1005.3.2

c. NUMBER OF EXITS A	c. NUMBER OF EXITS AND EXIT ACCESS DOORWAYS		
EGRESS BASED ON OCCUPANT LOAD & COMMON PATH OF EGRESS TRAVEL DISTANCE	TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1	IBC 1006.2.1	

SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY (IBC TABLE 1006.2.1)

			MAXIMUM COMMON	PATH OF EGRESS TRA	VEL DISTANCE (feet)
	OCCUPANCY	MAXIMUM OCCUPANT	WITHOUT SPRINKLER SYSTEM (feet)		WITH SPRINKLER SYSTEM (feet)
		LOAD OF SPACE	OCCUPANT LOAD		
			OL ≤ 30	OL ≥ 30	
	ASSEMBLY	49	75	75	75
	BUSINESS	49	100	75	100

MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY (IBC TABLE 1006.3.3)

OCCUPANT LOAD PER STORY	MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS FROM STORY
1-500	2

d. EXIT AND EXIT ACC	ESS DOORWAY CONFIGURATION	IBC SECTION 1007
TWO EXITS OR EXIT ACCESS DOORWAYS	WHERE TWO EXITS ARE REQUIRED FROM ANY PORTION OF THE EXIT ACCESS, THEY SHALL BE PLACED A DISTANCE APPART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED MEASURED IN A STRAIGHT LINE BETWEEN THEM.	IBC 1007.1.1

5. MEAN OF EGRESS (CONT.)

J. MEAN OF EGR	<u>.=====</u>				
e. DOORS, GATES, &	IBC SECTION 1010				
HORIZONTAL PROJECTIONS	,				
SIZE OF DOORS	EGRESS DOOR OPENINGS SHALL BE MININMUM 32	" CLEAR WIDTH.	IBC 1010.1.1		
DOOR SWING	PIVOT OR SIDE-HINGED SWINGING DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL WHERE SERVING A ROOM OR AREA CONTAINING AN OCCUPANT LOAD OF 50 OR MORE PERSONS.				
f. STAIRWAYS	NOT APPLICABLE	IBC SECTION 1011			
h. RAMPS	n. RAMPS				
max slope in direction	1:12	IBC 1012.2			
MAXIMUM CROSS SLOP	1:48	IBC 1012.3			
MAX VERTICAL RISE FOI	30"	IBC 1012.4			
RAMPS STEEPER THAN 1	:20 SHALL BE PROVIDED WITH HANDRAILS ALONG B	SOTH SIDES.			
i. CORRIDORS			IBC SECTION 1020		
MAXIMUM TRAVEL DISTANCES	A-3, B (WITHOUT SPRINKLER SYSTEM)	200 FT	IBC TABLE 1017.2		
CORRIDOR FIRE RESISTANCE RATING	A-3, B (OCC LOAD > 30 WITHOUT SPRINKLER SYSTEM)	1 HOUR	IBC TABLE 1020.2		
MINIMUM CORRIDOR \	VIDTH SERVING 50 PEOPLE OR MORE	44 IN	IBC TABLE 1020.3		
MINIMUM CORRIDOR \	WIDTH WITH AN OCC LOAD OF LESS THAN 50	36 IN	IBC TABLE 1020.3		
MAXIMUM DEAD END (CORRIDOR	20 FT	IBC 1020.5		

6. INTERIOR FINISHES (CHAPTER 8)

GROUP	SPRINKLERED			NONSPRINKLERED		
	EXIT ENCLOSURES & EXIT ACCESS PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES	EXIT ENCLOSURES & EXIT ACCESS PASSAGEWAYS	CORRIDORS	ROOMS AN ENCLOSED SPACES
A-3	В	В	С	A	A	С
В	В	С	С	Α	В	С

7. FIRE PROTECTION SYSTEMS (CHAPTER 9)

		NOT DECLUSED			
		NOT REQUIRED			
ASSEMBLY (A-3)					
ASSLMBLI (A-S)	2. OCCUPANT LOAD IS	LESS THAN 300.		IBC SECTION 903.2.1.3	
	3. THE FIRE AREA IS NOT OF EXIT DISCHARGE	T LOCATED ON A FLOOR	OTHER THAN THE LEVEL		
		NOT REQUIRED			
	1. FIRE AREA DOES NO	T EXCEED 18,000 SF		IBC TABLE 506.2	
BUSINESS (B)	2. BUILDINGS WITH FLO	OOR LEVEL ≥ 55 FEET ABO	OVE FIRE DEPARTMENT	IBC SECTION	
	3. OCCUPANT LOAD IS	5 ≥ 30 OCC		903.2	
b. STANDPIPE SYSTEM	S			IBC SECTION 90	
		NOT APPLICABLE			
c. PORTABLE FIRE EXT	NGUISHERS			IBC SECTION 90	
WHERE BEOLUBED	1. IN GROUP A, B, E, F, H, I, M, R-1, R-2, R-4 AND S OCCUPANCIES.				
WHERE REQUIRED	WHERE REQUIRED 2. WITHIN 30 FEET OF COMMERCIAL COOKING EQUIPMENT				
	FIRE EXTINGUISHER FOR	CLASS A FIRE HAZARDS		IBC TABLE 906.3(
HAZARD TYPE	MINIMUM RATED SINGLE EXTINGUISHER		MAXIMUM FLOOR AREA FOR EXTINGUISHER	MAXIMUM DISTANCE OF TRAVEL TO EXTINGUISHER	
LIGHT HAZARD OCCUPANCY	2-A	3,000 SQUARE FEET	11, 250 SQUARE FEET	75 FEET	
OCCUPANCI	<u> </u>			IBC SECTION 90	
d. FIRE ALARMS AND D	ETECTION SYSTEMS				
	INCLUDED IN DESIG	N, REFER ELECTRICAL			
	included in desig	N, REFER ELECTRICAL		IBC SECTION 91	

8. ACCESSIBILITY (CHAPTER 11)

REQUIRED	26	2		
	TOTAL PARKING SPACES PROVIDED IN PARKING FACILITIES	REQUIRED MINIMUM NUMBER OF ACCESSIBLE SPACES	IBC TABLE 1	
	ACCESSIBLE PARKING SPAC	ES		
d. PARKING AND PASSENGER LOADING FACILITIES				
PUBLIC ENTRANCES	AT LEAST 60 PERCENT OF ALL PUBLIC	IBC 1105		
c. ACCESSIBLE ENTRANCES				
	INCLUDED IN DESIGN, RI	EFER TO SHEET G010		
b. ACCESSIBLE ROUTES	ACCESSIBLE ROUTES			
where required	SITES, BUILDINGS, STRUCTURES, FAC TEMPORARY OR PERMANENT, SHALL WITH DISABILITIES.	IBC 1103		
a. SCOPING REQUIREMENTS				

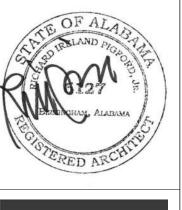
	DRINKING FOUNTAIN		WATER CLOSETS		OCCUPANCY	
OTHER			FEMALE	MALE	OCCUPANT LOADS	OCC CLASS
	1 PER 500	1 PER 200	1 PER 65	1 PER 125		A-3
1 SERVICE SINK	0.25	0.32 EACH	0.98	0.51	127	ASSEMBLY 127
	1 PER 100	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR REMAINDER		32	B BUSINESS
1 SERVICE SINK	0.32	0.4 EACH	0.64	0.64		DOSINESS
	0.57	0.72 EACH	1.62	1.15	159	TOTAL REQ'D
6 SERVICE SINKS	5	6 EACH	9	9	PROVIDED	TOTAL I

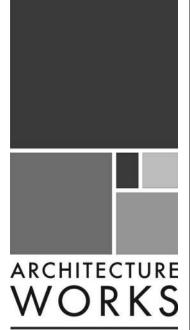
IBC TABLE 2902.1

OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS (IECC TABLE C402.1.3)

MIN. R-VALUE**	R-VALUE PROVIDED	CODE
20	20	2015 IECC - TABLE C402.1.3
38	39	2015 IECC - TABLE C402.1.3
NOT REQUIRED	0	2015 IECC - TABLE C402.1.3
2A, I	2015 IECC - TABLE 301.1	
	20 38 NOT REQUIRED	20 20 38 39







130 NINETEENTH STREET SOUTH

BIRMINGHAM, ALABAMA 35233 TELEPHONE: 205.320.0880 www.architectureworks.com

WATERSHED Building Sustain*ability*

302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514

ABILITY

19-028.000 PROJECT STATUS

CONFORMANCE SET

MARCH 24, 2023

PROJECT INFORMATION

G001

PROJECT NOTES:

- 1. THE EXACT LOCATION OF EXISTING STRUCTURES, UTILITIES AND PIPING SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR BEFORE CONSTRUCTION BEGINS. THESE DRAWINGS DO NOT PURPORT TO SHOW IN COMPLETE DETAIL ALL EXISTING STRUCTURES, UTILITIES OR PIPING. THE CONTRACTOR SHALL EXAMINE ALL AVAILABLE RECORDS AND MAKE ALL EXPLORATIONS AND EXCAVATIONS AS REQUIRED TO DETERMINE THE LOCATION OF EXISTING STRUCTURES, UTILITIES AND PIPES. THE OWNER RESERVES THE RIGHT TO CHANGE LOCATIONS OF PROPOSED UNDERGROUND UTILITIES TO AVOID CONFLICT WITH EXISTING STRUCTURES, UTILITIES OR PIPING. ANY SIGNIFICANT CHANGES SHALL BE APPROVED BY THE OWNER OR HIS REPRESENTATIVES PRIOR TO PLACEMENT.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE BY HIS EQUIPMENT TO EXISTING UTILITIES, STORM DRAINS, DRAINAGE STRUCTURES PIPES AND HEADWALLS OR OTHER EXISTING SITE FEATURES TO REMAIN, INCLUDING OWNER MATERIAL STORED ON-SITE. ALL DAMAGED ITEMS SHALL BE REPLACED IN LIKE KIND AT NO ADDITIONAL COST TO THE OWNER.
- 3. ALL PROPERTY LINE MARKERS (IRON PINS, CONCRETE MONUMENTS, ETC.) DESTROYED DURING CONSTRUCTION SHALL BE REPLACED IN KIND BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF ALABAMA TO RESET PROPERTY MARKERS.
- 4. ALL EXCAVATION, SHORING AND BRACING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 5. CONTRACTOR SHALL EXPLORE 100 YARDS AHEAD OF ANY PROPOSED PIPING SO ADJUSTMENTS CAN BE MADE IN THE ALIGNMENT OF THE PIPE IN CASE OF CONFLICTS WITH EXISTING STRUCTURES, UTILITIES AND PIPING WITHOUT DELAYING CONSTRUCTION.
- 6. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FLOWS THROUGH EXISTING PIPING AND STRUCTURES AND DIVERSION OF FLOWS AS NECESSARY DURING CONSTRUCTION UNDER THIS CONTRACT.
- 7. TRAFFIC REGULATIONS AND CONTROL ON AND ADJACENT TO THE PROJECT AREA SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 8. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT SOIL, SEDIMENT, AND TURBIDITY FROM WASHING INTO ALL CREEKS, BRANCHES, STREAMS, RIVERS, PRIVATE OR PUBLIC PROPERTY.
- 9. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT DIVERSION OF STORM WATER RUN-OFF ONTO PRIVATE OR PUBLIC PROPERTY BY USE OF TEMPORARY EROSION CONTROL MEASURES, SUCH AS SILT FENCES AND WATTLES.
- 10. CONTRACTOR SHALL REMAIN OUT OF WETLANDS.
- 11. THE CONTRACTOR SHALL NOT DEPOSIT ANY MATERIAL ON PRIVATE OR PUBLIC PROPERTY ADJACENT TO THE PROJECT.
- 12. CONTRACTOR SHALL ADHERE TO MIN. COVER AND CONSTRUCTION LOADING REQUIREMENTS / RESTRICTIONS DURING CONSTRUCTION.
- 13. STORM SEWER PIPE SHALL BE CLASS III R.C.P., UNLESS OTHERWISE NOTED ON PIPE DESCRIPTION
- 14. ALL STORM PIPE SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
- 15. PIPE LENGTHS ARE MEASURED HORIZONTALLY FROM CENTERLINE TO CENTERLINE OF STRUCTURES AND ROUNDED TO THE NEAREST FOOT.
- 16. ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL HAVE A WATERTIGHT CONNECTION AT THE STRUCTURE.
- 17. SEE PLANS FOR BACK FILLING AND COMPACTION REQUIREMENTS FOR TRENCHES.
- 18. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME. THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY
- 19. CONTRACTOR TO ABIDE BY CITY OF GULF SHORES CODE OF ORDINANCES, CHAPTER 14, ARTICLE IV CONSTRUCTION SITE TRASH, REFUSE, AND DEBRIS.
- 20. CONTRACTOR TO ABIDE BY CITY OF GULF SHORES CODE OF ORDINANCES, CHAPTER 7 BUILDINGS, CONSTRUCTION AND RELATED ACTIVITIES, ARTICLE 1 IN GENERAL, SECTIONS 7-19 THROUGH 7-24 - CLAYS AND SAND CLAYS, HAULING AND USING.
- 21. PRE-CAST STRUCTURES MAY BE USED AS APPROVED BY ENGINEER.
- 22. THE EARTHWORK FOR ALL BUILDING FOUNDATIONS, SLAB, PAVEMENT, ETC. SHALL BE IN ACCORDANCE WITH ARCHITECTURAL BUILDING PLANS AND SPECIFICATIONS.
- 23. SIDE SLOPE EXCAVATION SHALL COMPLY WITH THE MINIMUM STANDARDS OUTLINED IN THE OSHA MANUALS.
- 24. CONTRACTOR SHALL MATCH INVERTS OF PIPES AT CONNECTION WITH BUILDING AND SHALL SUPPLY REDUCERS AS NECESSARY
- 25. AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING PROVISION OF REFUSE DISPOSAL EQUIPMENT. THE CAPACITY OF SUCH EQUIPMENT, AND ARRANGEMENTS FOR WASTE REMOVAL, SHALL BE SUCH AS TO ENSURE AT ALL TIMES THE SECURE STORAGE OF THE TOTAL VOLUMES OF SOLID WASTE GENERATED ONSITE DURING INTERVALS BETWEEN COLLECTION DATES.
- 26. NO RENTAL TENANT, CONTRACTOR, GUEST, OR OTHER PERSON ENTERING THE PROPERTY MAY DISPOSE OF ANY REFUSE CAPABLE OF ATTRACTING RODENTS EXCEPT WITHIN A TIGHTLY-CLOSED WATER-PROOF, RODENT-PROOF, AND SCAVENGER-PROOF REFUSE CONTAINER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE THE AVAILABILITY OF SUCH A CONTAINER OR CONTAINERS, IN GOOD REPAIR AND OF SUFFICIENT CAPACITY TO CONTAIN SUCH AMOUNTS OF REFUSE AS MAY ACCUMULATE BETWEEN SCHEDULED PICK-UPS. ALL SUCH CONTAINERS SHALL BE MONITORED TO ENSURE THEY ARE KEPT CLOSED. EXCEPT WHEN WASTE IS BEING DEPOSITED OR REMOVED FOR DISPOSAL. A PROCEDURE SHALL BE ESTABLISHED FOR TIMELY REMOVAL OF REFUSE SO AS TO AVOID EXCEEDING THE CAPACITY OF THE CONTAINERS BETWEEN WASTE REMOVAL INTERVALS. IF ANY CONTAINER BECOMES ALTERED OR DAMAGED SUCH THAT IT IS INCAPABLE OF SUFFICIENTLY TIGHT CLOSURE TO EXCLUDE RODENTS AND/OR SCAVENGERS. IT SHALL BE REPAIRED IMMEDIATELY; OR, IF IRREPARABLY DAMAGED, IT SHALL BE REPLACED WITHIN TWENTY-FOUR HOURS OF DISCOVERY OF DAMAGE.

CZMA PERMIT GENERAL CONDITION NOTE:

1. IN THE COURSE OF CONDUCTING THE ACTIVITIES AUTHORIZED HEREIN, THE PERMITTEE OR ITS CONTRACTORS SHALL NOTIFY THE ADEM AND THE STATE HISTORICAL OFFICER OF ANY HISTORICAL, CULTURAL, OR ARCHAEOLOGICAL RESOURCES THAT ARE DISCOVERED.

EROSION CONTROL:

- 1. CONTRACTOR SHALL OBTAIN NPDES REGISTRATION & COMPLY WITH ALL CONDITIONS AND REQUIREMENTS OF THE PERMIT.
- 2. THE CONTRACTOR SHALL PREPARE & MAINTAIN A CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN (SWPPP)
- CONTRACTOR SHALL REFER TO THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS (PROVIDED BY THE ALABAMA SOIL AND WATER CONSERVATION COMMITTEE) FOR DETAILS AND MEASURES REFERRED TO IN THIS PLAN AND THE STORM WATER POLLUTION PREVENTION PLAN.
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- 4. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING SILT FROM SITE AND ASSURING PLAN ALIGNMENT AND GRADE IN ALL DITCHES AT COMPLETION OF CONSTRUCTION.
- 5. EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL DEVICES IN GOOD OPERATING ORDER DURING CONSTRUCTION UNTIL SITE IS STABILIZED. ONCE SITE IS STABILIZED AND PERMANENT GROUND COVER IS ESTABLISHED, CONTRACTOR SHALL REMOVE EROSION CONTROL DEVICES.
- 7. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, FLUMES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.
- CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EROSION AND SEDIMENT CONTROL DEVICES ON-SITE DURING CONSTRUCTION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, AS A MINIMUM STANDARD, AND SHALL REMOVE ANY SILT BEYOND THE PROPERTY RESULTING FROM CONSTRUCTION. ADDITIONAL ON-SITE PROTECTION MEASURES MAY BE REQUIRED DURING CONSTRUCTION TO PREVENT SILT FROM LEAVING THE SITE DUE TO UNSEEN CONDITIONS OR ACCIDENTS.
- CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENTATION CONTROL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL LAWS, CODES, AND REGULATIONS. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION UNTIL ALL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- 10. EROSION CONTROL DEVICES SHOWN ON PLANS ARE MINIMUM REQUIREMENTS; ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED TO PREVENT SEDIMENT FROM LEAVING THE SITE AND SHALL BE IMPLEMENTED BY THE CONTRACTOR AS NEEDED DUE TO SITE CONDITIONS.
- 11. CONTRACTOR SHALL INSPECT AND REPAIR AS NECESSARY ALL EROSION CONTROL DEVICES AFTER EACH RAINFALL. ADDITIONALLY, CONTRACTOR SHALL INSPECT BMPS WITH AN INFORMAL, DAILY WALK AROUND INSPECTION.
- 12. CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED TO EXISTING IMPROVEMENTS ON SITE OR OFF SITE DUE TO THE CONSTRUCTION OF THIS PROJECT. CONTRACT SHALL
- REPAIR OR REPLACE ANY DAMAGED EXISTING IMPROVEMENTS AT HIS EXPENSE. REPAIRS SHALL BE EQUAL TO OR BETTER THAN THE EXISTING CONDITIONS. 13. EROSION CONTROL DEVICES MAY BE SUBSTITUTED BY OTHER MEANS THAT OPERATE AT LEAST AS WELL AS ONES LISTED, AND AS APPROVED BY ENGINEER.
- 14. BMPS SHALL BE IMPLEMENTED AND MAINTAINED THROUGHOUT THE LIFE OF THE PROJECT TO CONTROL EROSION, SEDIMENT, AND TURBIDITY. THE CONTRACTOR IS RESPONSIBLE FOR ALL INSPECTIONS, MONITORING, AND RECORD KEEPING.
- 15. STOCKPILES ON SITE SHALL BE ENCLOSED WITH A SEDIMENT BARRIER.
- 16. CONCRETE TRUCK WASH OUT SHALL BE PERFORMED IN A PIT AREA OR BERMED AREA AS DESIGNATED BY THE SITE SUPERINTENDENT. HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED AS SOON AS PRACTICABLE AT AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH APPLICABLE REGULATIONS INCLUDING, BUT NOT LIMITED TO, BEING DISPOSED OF AT A PROPERLY LICENSED FACILITY.

RECOMMENDED CONSTRUCTION SEQUENCE FOR EROSION CONTROL:

- 1. INSTALL PERIMETER CONTROLS AND CONSTRUCTION ENTRANCE. AT NO TIME SHALL CONTRACTOR ENTER PROPERTY OUTSIDE OF PERIMETER CONTROL.
- BEGIN EXCAVATION OPERATIONS, INSTALL UTILITIES AND STORM PIPES. INSTALL ADDITIONAL INLET PROTECTION AS INLETS AND MANHOLES ARE INSTALLED. UPDATE PERIMETER CONTROLS AS NECESSARY OR AS CONSTRUCTION STAGING CHANGES/PROGRESSES.
- 3. CONSTRUCT FINAL PAVING SECTIONS. REPLACE INLET PROTECTION DEVICES AS SURFACE CONDITIONS CHANGE.
- 4. DENUDED SOIL SURFACES SHALL BE TEMPORARILY SEEDED WITH GRASS OR GRAVEL. IF LEFT EXPOSED FOR MORE THAN 12 DAYS. AREAS NOT TO RECEIVE PAVING, SIDEWALKS OR BUILDING EXPOSED AT GRADE OR NEAR GRADE SHALL NOT BE ALLOWED TO REMAIN EXPOSED TO RAIN AND SHALL BE TREATED WITH GRASS OR GRAVEL.
- 5. FOLLOWING ALL EXCAVATION, UTILITY, STORM DRAINAGE, PAVING OPERATIONS AND INSTALLATIONS, ALL DENUDED SOIL SURFACES SHALL RECEIVE TOPSOIL, FERTILIZER, AND
- 6. ONCE ALL DENUDED SOIL SURFACES HAVE BEEN ELIMINATED, ALL PERIMETER AND INLET PROTECTION DEVICES SHALL BE REMOVED

UTILITY NOTES:

- 1. ALL WATER AND SEWER FEATURES SHALL MEET THE MATERIAL, INSTALLATION AND TESTING REQUIREMENTS OF GULF SHORES UTILITY BOARD.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONNECTION FEES ASSOCIATED WITH NEW WATER AND SEWER FEATURES.

INDICATES CAPPED IRON PIN FOUND

3. WATER AND SEWER PLANS INDICATE GENERAL LOCATION OF FEATURES. CONTRACTOR SHALL MAKE MINOR FIELD ADJUSTMENTS TO AVOID SIGNIFICANT TREES OR EXISTING TREE

LEGEND

INDICATES GAS METER

U.I.P.F.		\subseteq	
C.I.P.S.	INDICATES CAPPED 5/8" IRON PIN SET	G∧ [Д]	INDICATES GAS VALVE
C.T.I.P.F.	INDICATES CRIMPED TOP IRON PIN FOUND	- G G	INDICATES GAS LINE
<u>&</u> _{0.T.I.P.F.}	INDICATES OPEN TOP IRON PIN FOUND	GLM <u>II</u>	INDICATES GAS LINE MARKER
REBAR	INDICATES REBAR FOUND	FH⊙	INDICATES FIRE HYDRANT
C.M.F.	INDICATES CONCRETE MONUMENT FOUND	wm⊞	INDICATES WATER METER
PPØ	INDICATES POWER POLE	w⋈	INDICATES WATER VALVE
GP⊙	INDICATES GUY POLE	w	INDICATES WATER LINE
> GUY	INDICATES GUY WIRE	S	INDICATES SANITARY SEWER MANHOLE
OHE	INDICATES OVERHEAD ELECTRIC	——ss——	INDICATES SANITARY SEWER LINE
—— UGE ——	INDICATES UNDERGROUND ELECTRIC	C.0.9	INDICATES CLEAN OUT
LP)C(INDICATES LIGHT POLE	sv⋈	INDICATES SEWER VALVE
$MP\mathfrak{O}$	INDICATES METER POLE	CP⊡	INDICATES CABLE PEDESTAL
PB 🕑	INDICATES POWER BOX	BPO	INDICATES BUMPER POST
/—/—/— 0—0—0—0-	INDICATES WOODEN FENCE INDICATES CHAIN LINK FENCE	N/F	NOW OR FORMERLY
x—x——x—	INDICATES WIRE FENCE	RCP	REINFORCED CONCRETE PIPE
TP□	INDICATES TELEPHONE PEDESTAL	CMP	CORRUGATED METAL PIPE
— T ——— T —	INDICATES O/H TELEPHONE LINE	MB⊡	INDICATES MAIL BOX
———UGT———	INDICATES UNDERGROUND TELEPHONE LINE		CLEARING LIMITS
FOCM□	INDICATES FIBER OPTIC MARKER	0000	AREA OF ASPHALT REMOVAL
\bigcirc	INDICATES STORM WATER MANHOLE		LIMITS OF SAWCUT



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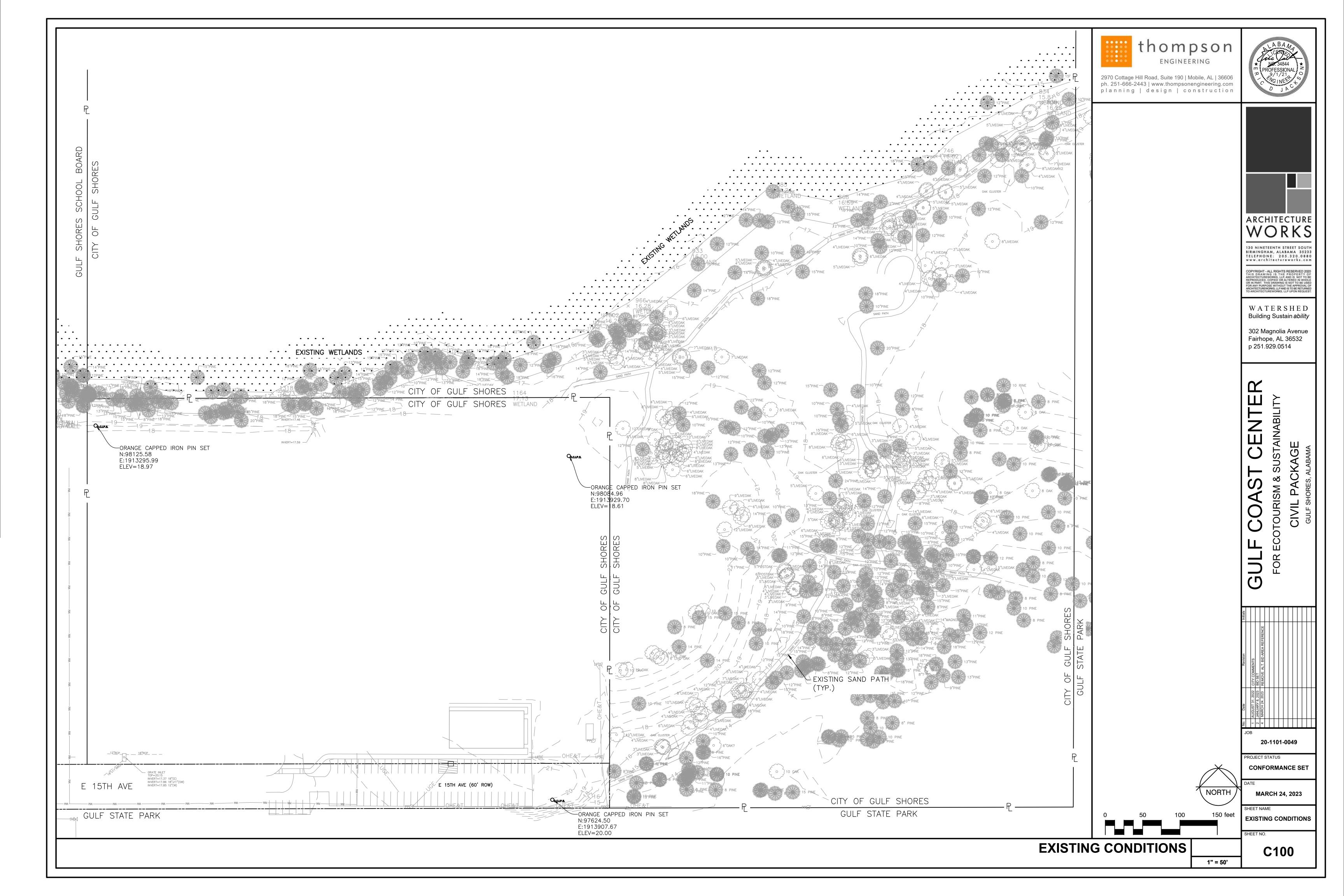
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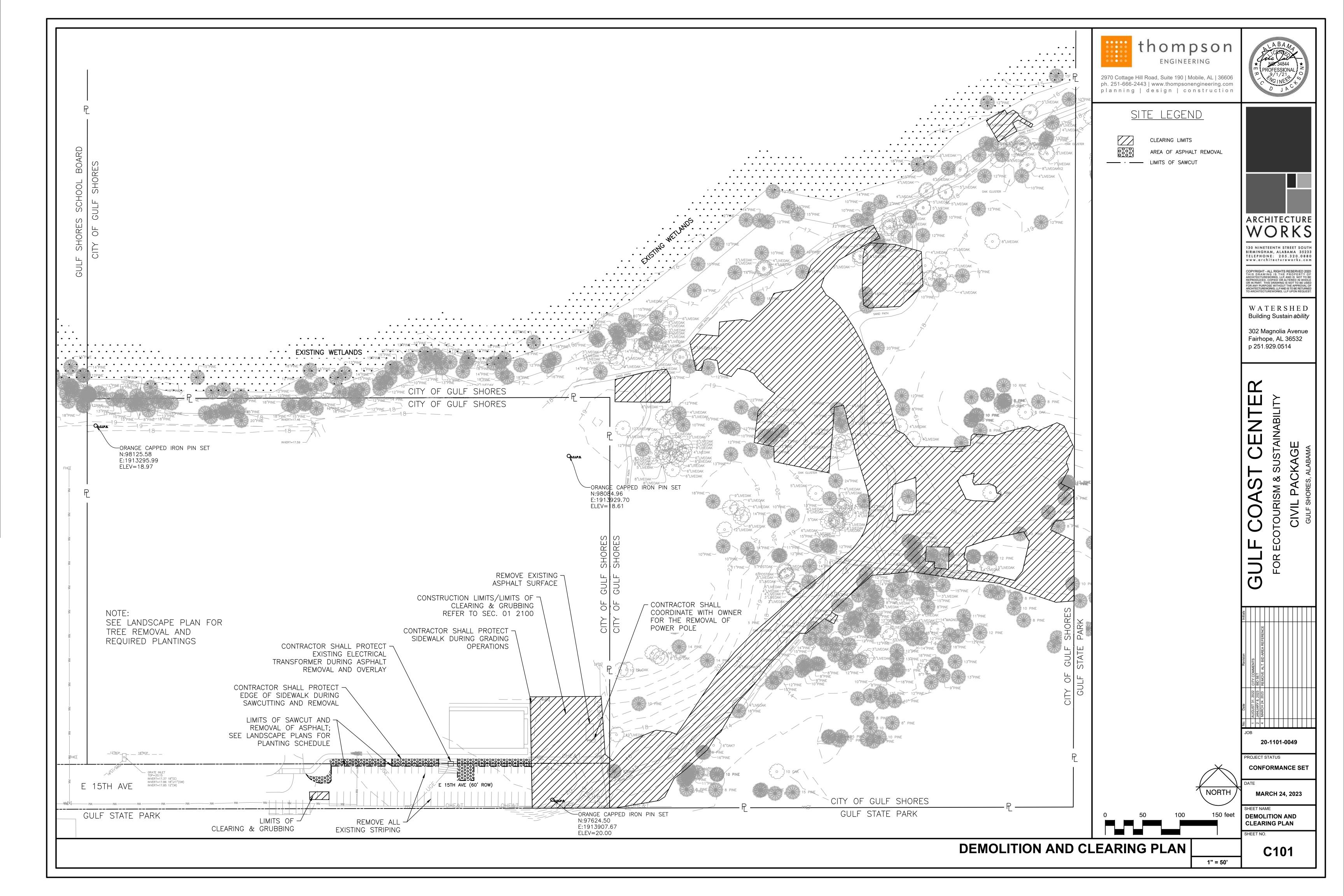
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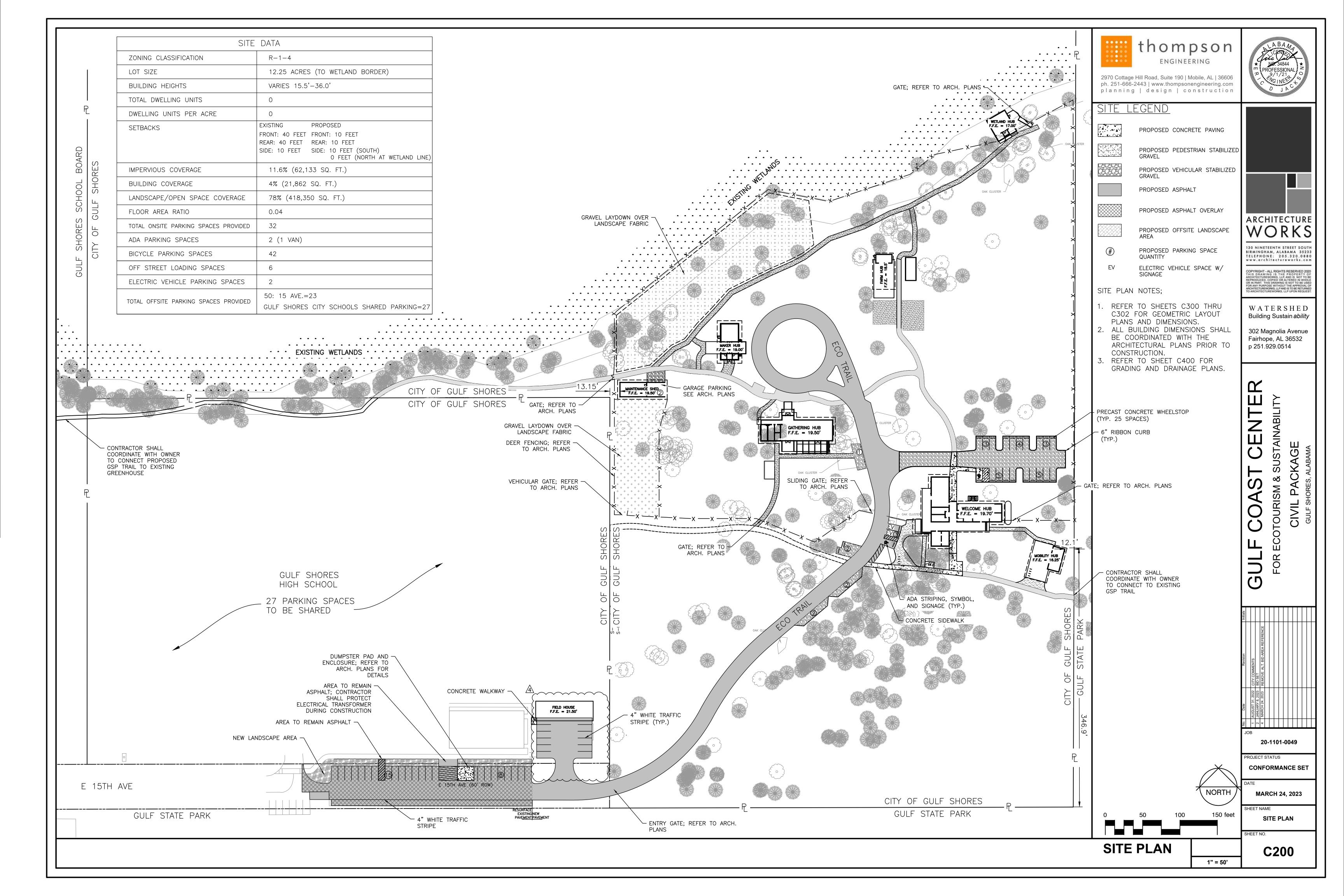
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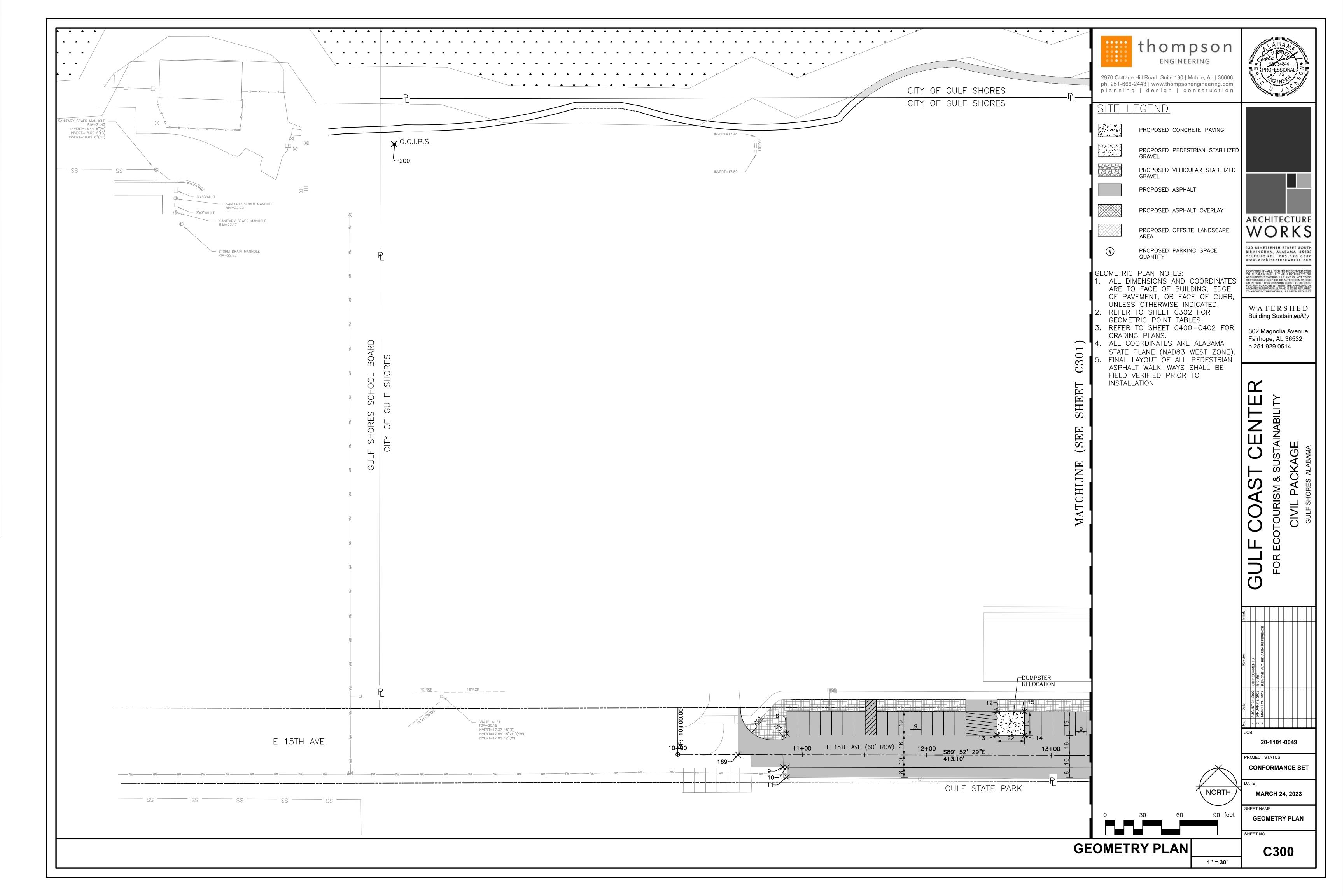
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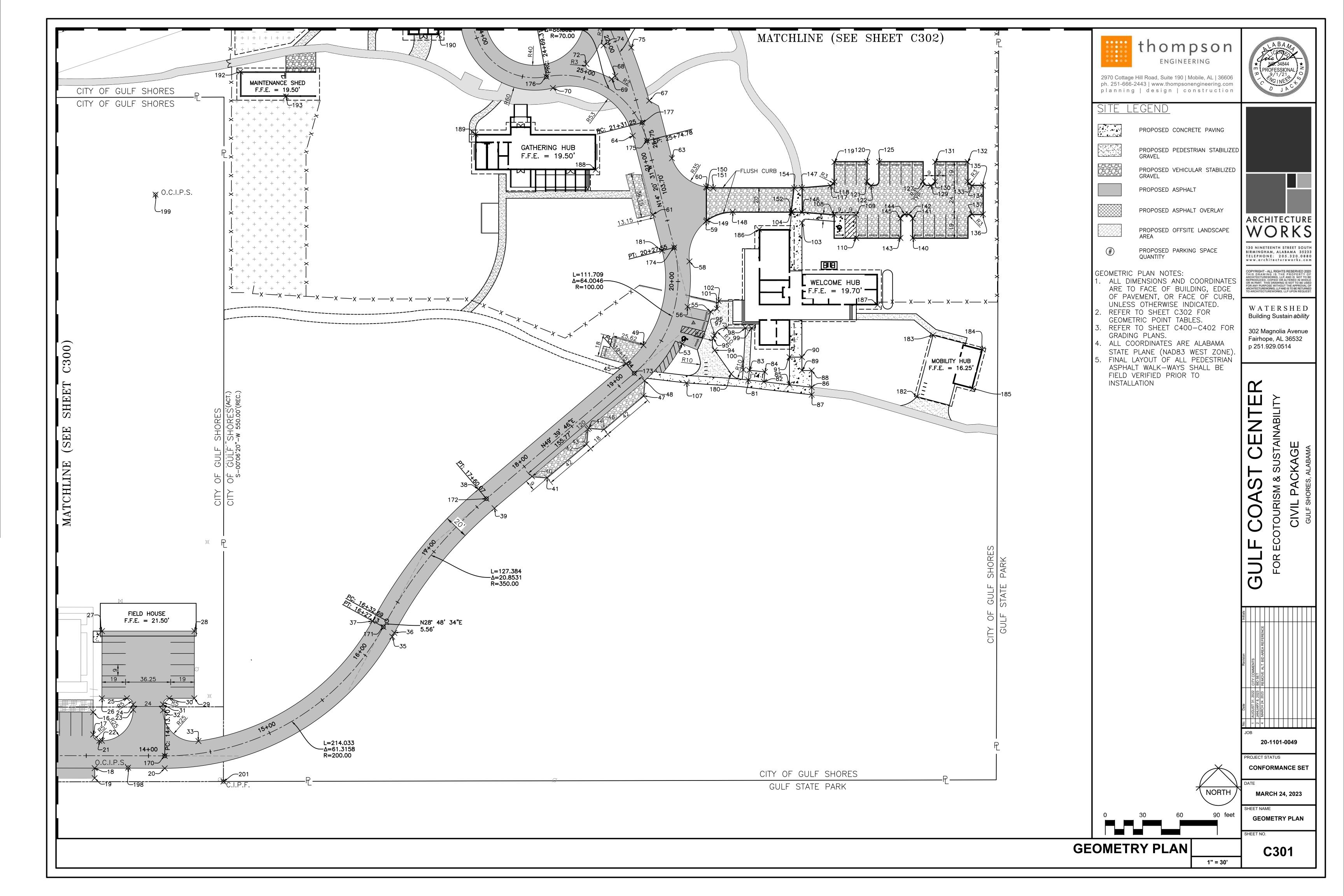
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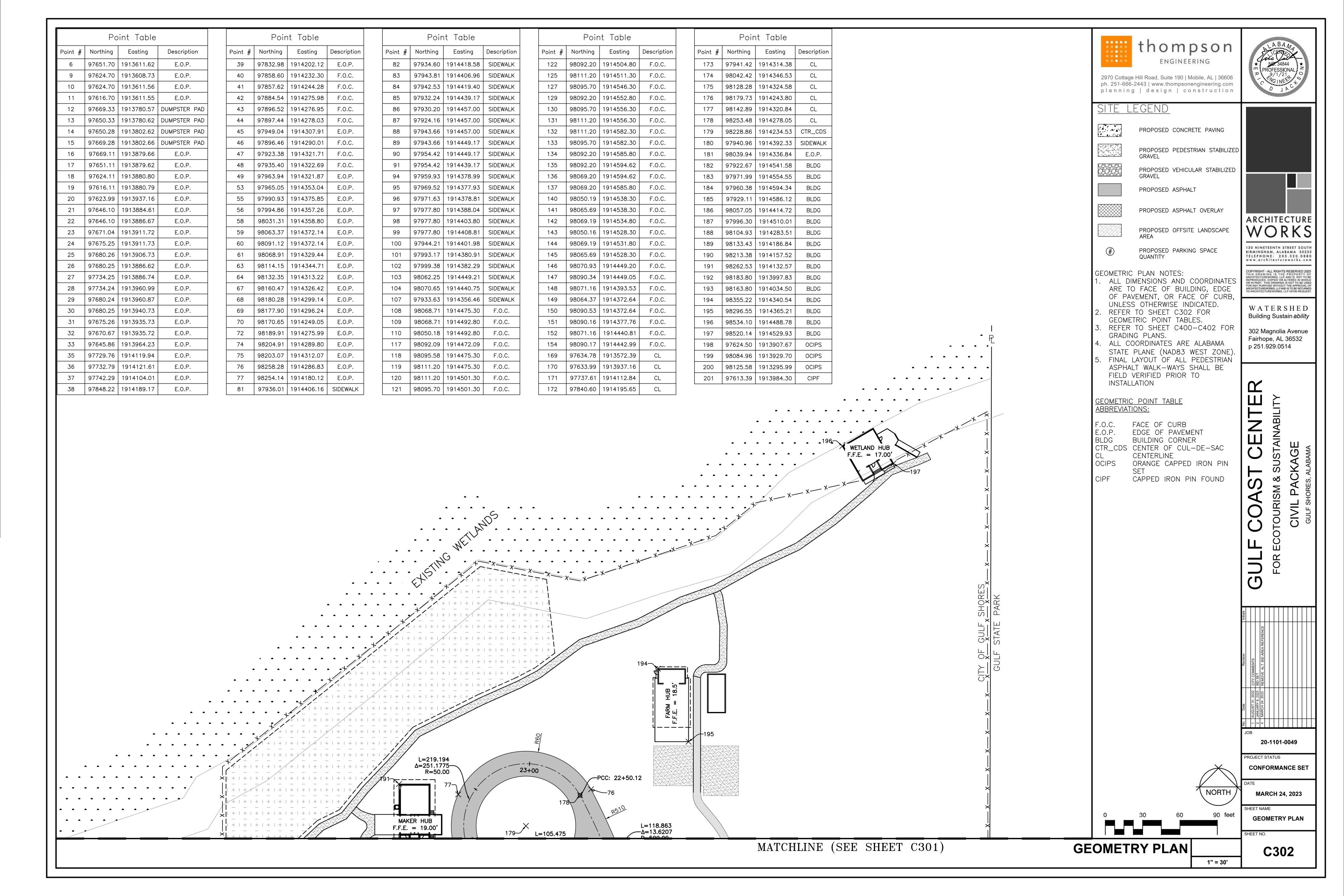




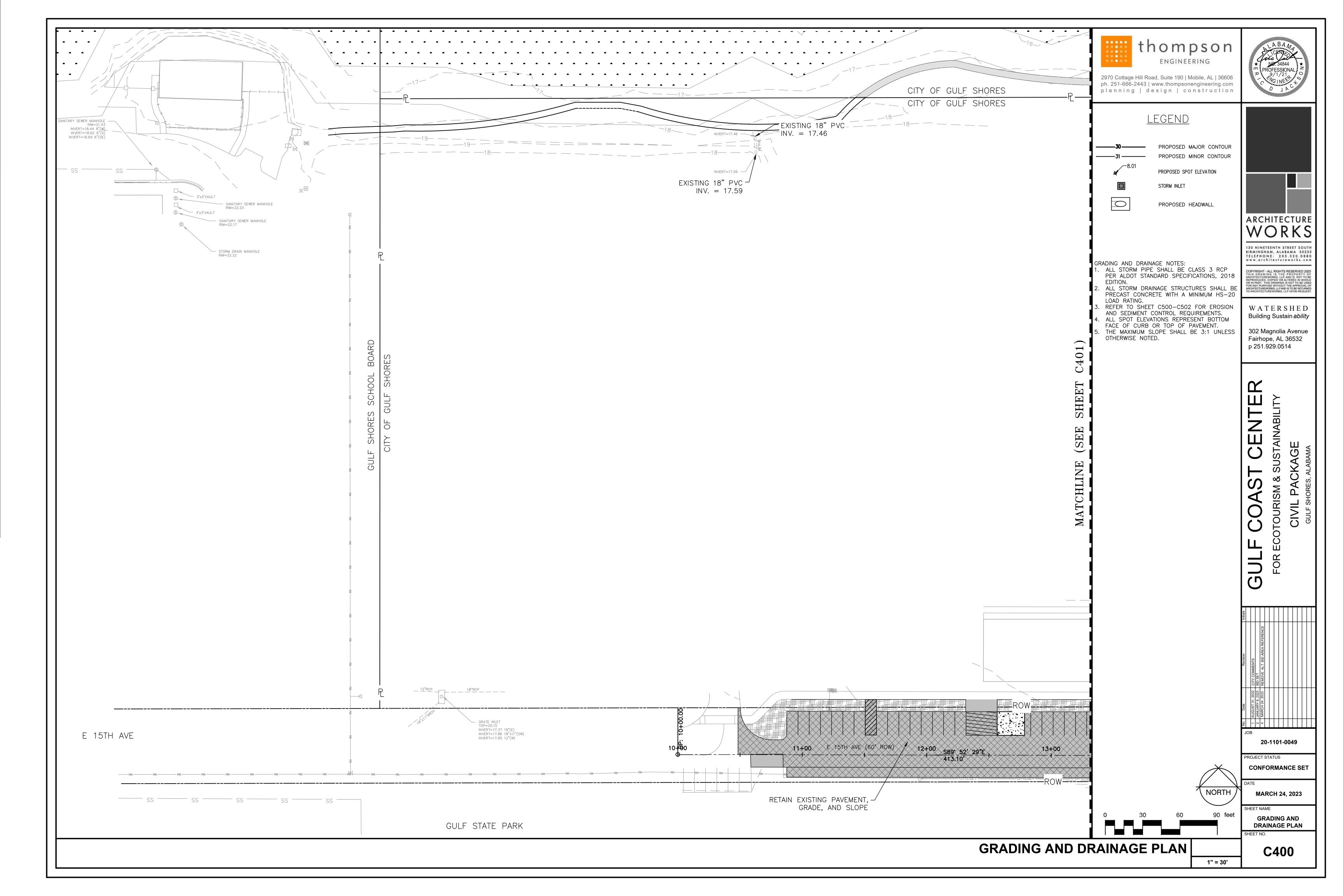


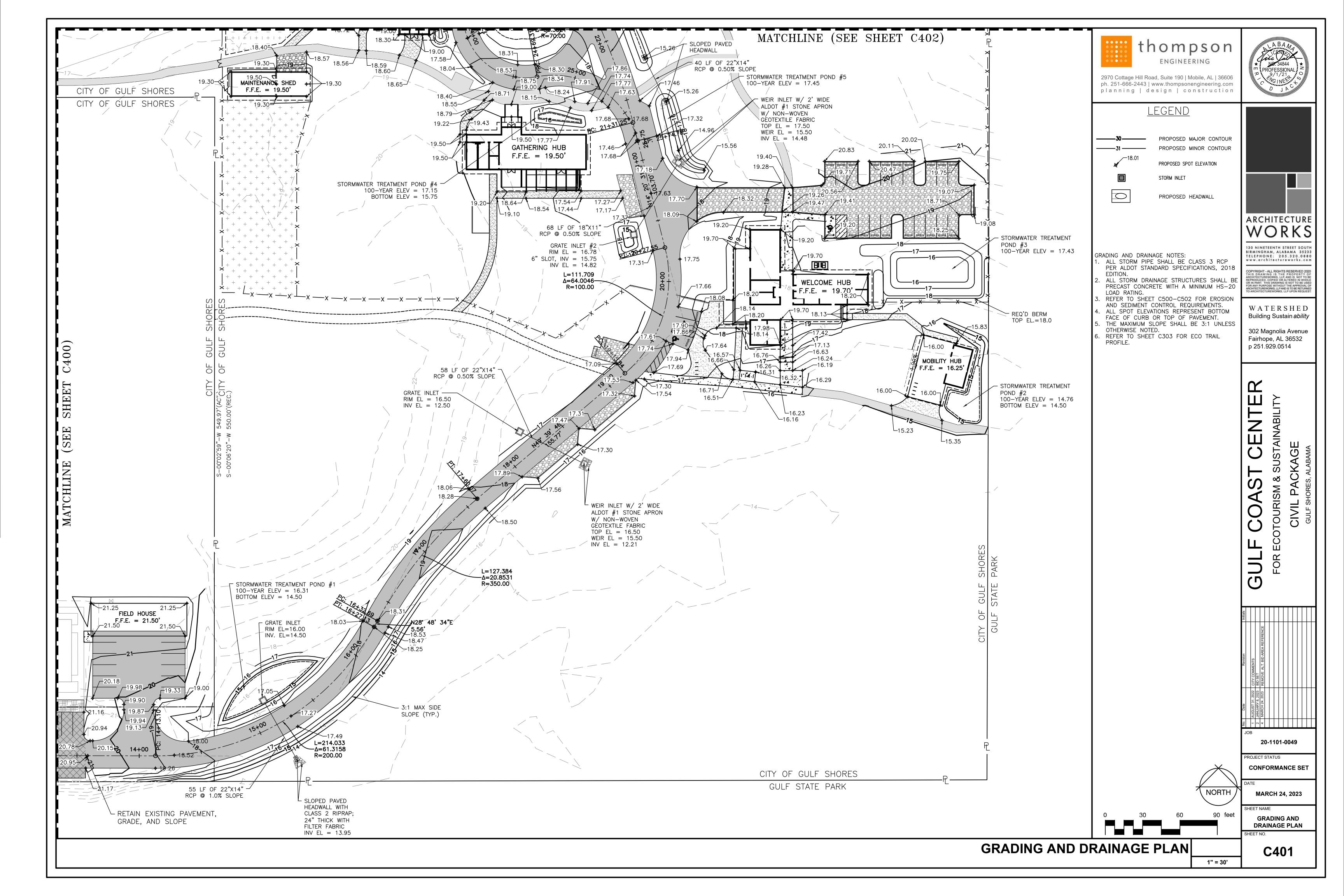


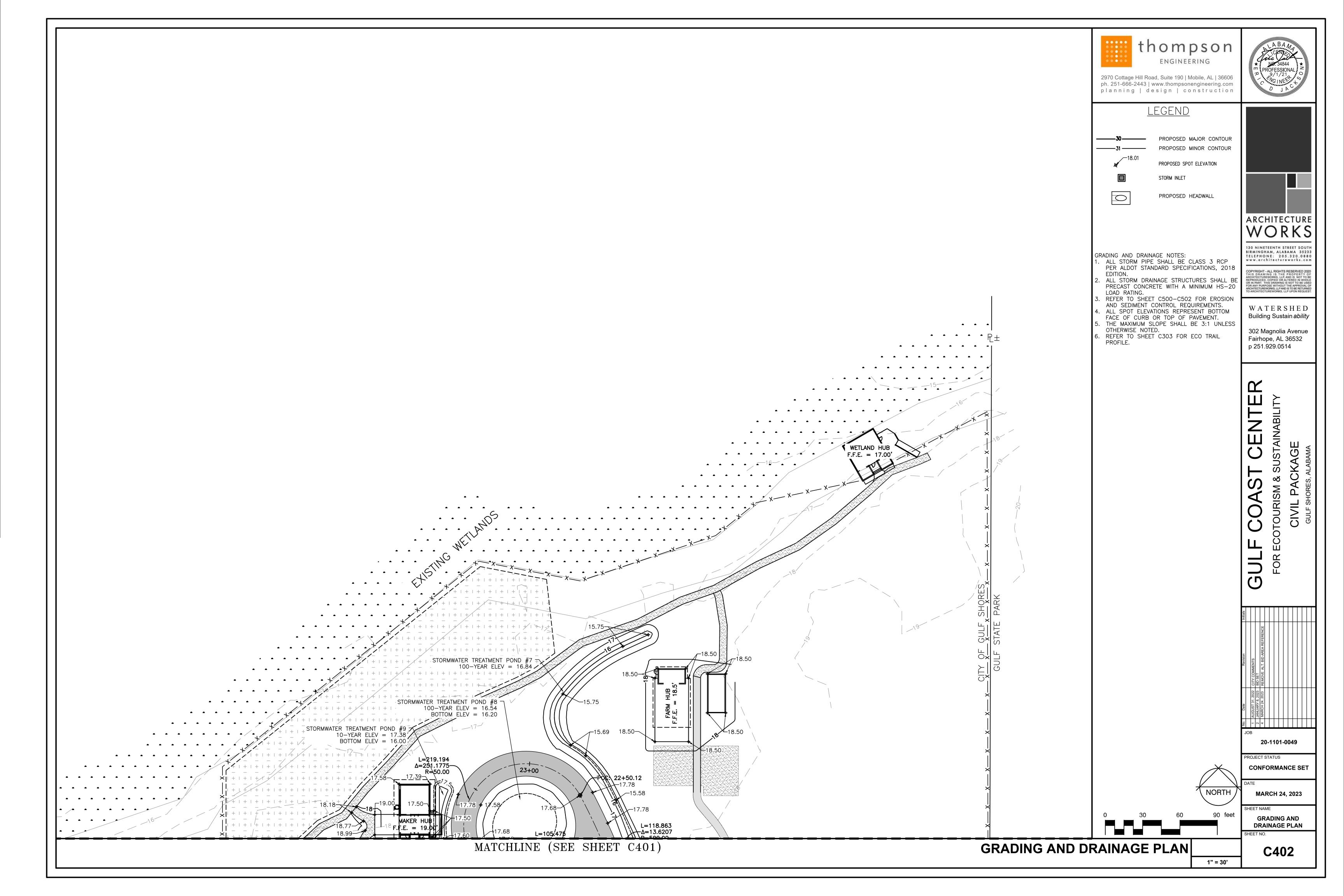




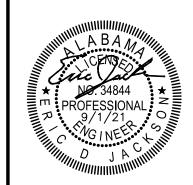








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CONSTRUCTION BEST MANAGEMENT PRACTICES PLAN:

PRE-CONSTRUCTION PLANNING:

1. GENERAL

THE INTENT OF THIS PLAN IS TO PREVENT EROSION AND RESULTING SEDIMENT TRANSPORTATION TO OFF-SITE LOCATIONS. THE ITEMS INDICATED ARE THE DESIGN ENGINEER'S BEST ESTIMATE OF THE REQUIREMENTS, MORE OR LESS, THAT ARE NEEDED BASED ON THE CURRENT SITE CONDITIONS, ANTICIPATED WEATHER PATTERNS, ETC. THE CONTRACTOR SHALL INSTALL ADDITIONAL MEASURES AS NECESSARY TO COMPLY WITH THIS INTENT AND THE ADEM (NPDES) STORM WATER DISCHARGE PERMIT.

- A. BEST MANAGEMENT PRACTICES PLAN WITH ALL SEDIMENT AND EROSION CONTROL PLANS ALONG WITH THE ADEM (NPDES PERMIT) SHALL BE KEPT ON-SITE WITH THE DAILY RAIN FALL LOGS AND COPIES OF ALL
- B. EXISTING TOPOGRAPHY AND PROPOSED TOPOGRAPHY ARE SHOWN ON THE DRAWINGS IN THE PLAN SET.
- C. PERIMETER SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CONSTRUCTED PRIOR TO ANY LAND DISTURBANCE ACTIVITY TAKES PLACE.
- D. OTHER FEDERAL, LOCAL OR STATE STATUTES OR REQUIREMENTS THAT MAY AFFECT THE PERMIT REQUIREMENTS FOR THIS SITE:
- 1. U.S. CORPS OF ENGINEERS
- 2. LOCAL SEDIMENT CONTROL ORDINANCES
- E. MATERIAL NEEDS AFFECTING ENVIRONMENTAL ASPECTS OF THIS SITE:
- 1. HAUL IN AND/OR HAUL OFF
- 2. TOPSOIL SPOIL OR REMOVAL
- F. PLANNED PHASES OF CONSTRUCTION
- 1. EXISTING VEGETATION REMOVAL
- UTILITY STABILIZATION

A. PLANNED CONSTRUCTION PHASING AND REQUIRED EROSION AND SEDIMENT CONTROL MEASURES.

PHASE I — EXISTING VEGETATION/IMPROVEMENTS REMOVAL:

THIS PHASE OF CONSTRUCTION INVOLVES THE REMOVAL OF EXISTING VEGETATION/IMPROVEMENTS FROM THE SITE. THE FOLLOWING WILL APPLY DURING THIS SPECIFIC PHASE:

- 1. CONSTRUCTION OF A STABILIZED CONSTRUCTION ENTRANCE (ALDOT STANDARD DRAWING, #ESC-502). ENTRANCE SHALL BE SIZED TO HANDLE TWO WAY TRAFFIC. THE ENTRANCE SHALL CONTINUALLY BE MAINTAINED DURING CONSTRUCTION OPERATIONS AND MAY NEED REPLACEMENT SEVERAL TIMES DUE TO CLOGGING WITH SEDIMENT.
- 2. INSTALLATION ALL PERIMETER SILT FENCING (ALDOT STD DWG. #ESC-200-4) AND DIRECTED BY THE PLAN SET DOWN GRADIENT FROM ANY GROUND DISTURBING ACTIVITIES.
- 3. ALL TREES AND DEBRIS WILL BE KEPT AWAY FROM DITCHES AND WATERWAYS SO RUN-OFF ACCUMULATIONS IN THE DITCHES AND WATERWAYS WILL NOT CARRY SITE DEBRIS DOWNSTREAM.
- 4. ALL DITCHES AND WATERWAYS SHALL BE PROTECTED TO THE EXTENT POSSIBLE.

PHASE II — GRADING OPERATIONS:

THIS PHASE IS INITIATED WHEN THE EARTHWORK OPERATIONS ARE TO BEGIN ROUGH GRADING OPERATIONS WHICH INCLUDE THE MOVEMENT OF EARTH ON-SITE AND EXPORTATION OF MATERIAL OFF-SITE. THIS PHASE IS THE CRITICAL TIME WHEN MOST SEDIMENT OCCURS. THE INSTALLED SEDIMENT AND EROSION CONTROL MEASURES SHALL BE CONSTANTLY INSPECTED AND MAINTAINED TO ENSURE THEIR EFFECTIVENESS. THE FOLLOWING WILL APPLY TO THIS STAGE OF CONSTRUCTION:

- 1. ALL SEDIMENT CONTROL FACILITIES REQUIRED SHALL BE INSTALLED DURING PHASE I AND II SHALL BE LEFT IN PLACE AND MAINTAINED UNTIL VEGETATION IS RE-ESTABLISHED TO AN ACCEPTABLE MANNER.
- 2. WHENEVER A SILT CONTROL FACILITY IS REMOVED BECAUSE OF CHANGING SITE CONDITIONS IT SHALL BE REPLACED WITH ANOTHER MEASURE THAT WILL BE PART OF THE PROGRAM OF SILT AND EROSION CONTROL.
- 3. SILT FENCES SHALL BE IN PLACE AT THE TOE OF ALL FILL SLOPES.
- 4. SEDIMENT BASINS SHALL BE INSTALLED AS NECESSARY.
- 5. SLOPES (CUT OR FILL) THAT ARE CONSTRUCTED IN THE FINAL CONFIGURATION SHALL BE COVERED WITH FOUR (4") INCHES OF TOPSOIL THEN SEEDED AND MULCHED AS SOON AS GRADING IS COMPLETED SO
- 6. PORTIONS OF THE SITE THAT ARE GRADED TO FINAL GRADE AND ARE NOT TO RECEIVE PAVEMENT OR BUILDINGS SHALL HAVE FOUR (4") INCHES OF TOPSOIL SPREAD OVER THE SURFACE AND GRASSED AND/OR SODDED AS SOON AS POSSIBLE IN THE CONSTRUCTION PROCESS. THIS PHASE OF CONSTRUCTION IS CRITICAL IN THE EROSION AND SEDIMENT CONTROL PROCESS.
- 7. STORM SEWERS NEED TO BE INSTALLED AS SOON AS POSSIBLE IN THE CONSTRUCTION PROCESS AND CONCURRENT WITH GRADING OPERATIONS TO ENSURE A SUCCESSFUL PROGRAM. RUNOFF SHALL BE DIRECTED TO THE STORM SEWER SYSTEM AS SOON AS POSSIBLE.

<u>PHASE III — UTILITY INSTALLATION PLAN:</u>

THIS PHASE WILL BE COMPLETE IN CONCURRENCE WITH THE GRADING OPERATIONS. STORM SEWERS SHALL BE INSTALLED AND PRESSED INTO SERVICE AS EARLY IN THE GRADING OPERATION AS POSSIBLE. THE FOLLOWING WILL APPLY TO THIS PHASE OF CONSTRUCTION:

- 1. ALL ASPECTS OF THE PREVIOUS PHASES SHALL BE MAINTAINED AS APPLICABLE.
- 2. STORM SEWERS THAT ARE INSTALLED SHALL BE PUT INTO SERVICE IMMEDIATELY. THE INLETS/FLUMES OF ALL STORM SEWERS SHALL BE PROTECTED WITH SILT TRAPS THAT PREVENT SEDIMENT FROM ENTERING THE SYSTEM. THIS PROTECTION SHALL BE WATTLES AS SHOWN ON THE PLANS.
- 3. RIP RAP AS SHOWN ON THE PLANS AND AS REQUIRED ON THE SITE WILL BE INSTALLED AT THE PIPE OUTLETS TO PREVENT EROSION DUE TO VELOCITIES OF WATER IN THE PIPES. THE RIP RAP SHALL BE EXTENDED DOWNSTREAM AS NEEDED TO PREVENT EROSION.
- 4. ADDITIONAL SILT FENCING SHALL BE INSTALLED AS NECESSARY TO PREVENT EROSION AND SILTATION RESULTING FROM STOCKPILED EXCAVATED MATERIAL FROM UTILITY INSTALLATION OPERATION.
- 5. WATTLE CHECK DAMS SHALL BE INSTALLED IN ALL NEWLY CONSTRUCTED DITCHES AND SWALES AS NECESSARY TO PREVENT EROSION AND SILTATION.

PHASE IV — FINISH GRADING, PAVEMENT INSTALLATION:

THE FINAL STAGE OF THE SITE WORK OPERATIONS AT WHICH TIME ALL TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES WILL BE PHASED OUT AND REMOVED. THE FOLLOWING REQUIREMENTS WILL APPLY DURING THIS PHASE OF THE CONSTRUCTION:

- 1. ALL FACILITIES FROM PHASE I THROUGH PHASE IV WILL BE MAINTAINED AS APPROPRIATE AND REMOVED WHEN NO LONGER NEEDED.
- 2. SILT TRAPS AROUND DRAINAGE INLETS/FLUMES WILL BE MAINTAINED OR MODIFIED AS NECESSARY AND REMOVED WHEN NO LONGER NEEDED.
- 3. ALL AREAS NOT RECEIVING PAVEMENT OR BUILDINGS SHALL RECEIVE FOUR (4") INCHES OF TOPSOIL, SEEDED AND MULCHED PER PLAN, OR HAVE LANDSCAPING, MULCHING AND OR SOD INSTALLED AS APPLICABLE.
- 4. CONTRACTOR MAY COVER SOME AREAS WITH TWO AND ONE-HALF INCHES THICK GRADED AGGREGATE FOR EROSION CONTROL IN LIEU OF GRASSING.
- 5. REFER TO THIS DRAWING (SEEDING NOTES) FOR ACTUAL REQUIREMENTS FROM THE INSTALLATION OF LIME, FERTILIZATION, SEED AND MULCH. GRASSING OPERATIONS SHALL BE PERFORMED THROUGHOUT CONSTRUCTION AT THOSE TIMES WHEN PORTIONS OF THE SITE ARE COMPLETED AND READY FOR PERMANENT GROUND COVER. THIS WILL REQUIRE MULTIPLE EFFORTS BY THE GRASSING SUBCONTRACTOR TO STABILIZE ALL IMPACTED AREAS OF THE SITE IN AN ORDERLY FASHION. NO AREA OF THE SITE THAT RECEIVES FINAL GRADE SHALL BE LEFT FOR MORE THAN 13 DAYS WITHOUT THE APPLICATION OF SEED AND MULCH.

INSPECTION AND MAINTENANCE INSTRUCTIONS:

- A. ALL EROSION CONTROL AND SEDIMENT CONTROL FACILITIES SHALL BE INSPECTED REGULARLY TO ENSURE THEY ARE EFFECTIVE IN THE EVENT OF RAINFALL. THEY SHALL BE INSPECTED ONCE EVERY WEEK (MINIMUM) AND WITHIN 24 HOURS AFTER EACH RAINFALL EVENT. ANY DAMAGED OR NON-FUNCTIONAL FACILITY SHALL BE REPAIRED IMMEDIATELY. THE FOLLOWING WILL APPLY TO MAINTAINING EROSION AN SEDIMENT CONTROL FACILITIES. INSPECTION AND REPORTING SHALL ALSO BE PERFORMED IN ACCORDANCE WITH THE ADEM (NPDES) STORM WATER DISCHARGE PERMIT.
- 1. SILT FENCE BARRIERS WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE LEVEL OF SEDIMENT DEPOSITION REACHES 1/3 THE WAY TO THE TOP OF THE BARRIER AND NEVER ALLOWED TO REACH 1/2 WAY TO THE TOP OF THE BARRIER.
- 2. SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RE-SEEDED AS NEEDED.
- 3. IF ANY FACILITY IS DAMAGED DURING MAINTENANCE, OR OTHERWISE, THE DAMAGED PORTION SHALL BE REMOVED AND REPLACED TO MEET THE ORIGINAL, DESIGNED CONDITION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 4. IF SILT HAS CLOGGED SEDIMENT CONTROL FACILITIES AND IT IS NO LONGER EFFECTIVE IN FILTERING SILT, THE STRUCTURE SHALL BE REMOVED AND REPLACED WITH A NEW STRUCTURE IN ACCORDANCE WITH THE PLANS.
- 5. IN ORDER TO MAINTAIN EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROLS, THE CONTRACTOR SHALL INSPECT THE OVERALL PERFORMANCE OF THE EROSION AND SEDIMENTATION CONTROL FACILITIES AND AREAS DOWNSTREAM. IF SILT IS APPARENT DOWNSTREAM FROM THESE STRUCTURES, SOME FAILURE HAS OCCURRED. IF SEDIMENT IS OBSERVED DOWNSTREAM, NOTIFY THE ENGINEER. THE ENGINEER WILL INSPECT THE CONDITION AND AFTER INSPECTION, WILL DIRECT THE REMOVAL OF ACCUMULATED SEDIMENT DOWNSTREAM AND ADD ADDITIONAL STRUCTURAL MEASURES AS NECESSARY. THE CONTRACTOR SHALL IMPLEMENT RECOMMENDED SOLUTIONS TO PROBLEM AREAS.

COMPLETION OF PROJECT:

- A. PROJECT CLOSE OUT: THE FOLLOWING SHALL BE DONE AT THE END OF THE PROJECT:
- 1. INSPECT SITE TO BE ENSURED THAT GROUND COVER IS COMPLETE AND ADEQUATE. IN OTHER WORDS, ALL AREAS ARE EITHER PAVED OR HAVE GOOD GROUND COVER WITH NO EROSION APPARENT. GENERALLY GOOD GROUND COVERAGE OF VEGETATION IS DEFINED AS 80% VEGETATIVE COVER WITH NO AREAS OF EROSION APPARENT.
- 2. IF ABOVE INSPECTION IS MADE AND APPROVED, ALL TEMPORARY BMP MEASURES SHALL BE REMOVED ALONG WITH ANY ACCUMULATED SEDIMENT. THE AREAS DISTURBED BY REMOVAL OF BMPs SHALL BE FINE GRADED, SEEDED AND MULCHED.
- 3. IF INSPECTION IS MADE AND PROBLEMS EXIST, MAKE REPAIRS AND RE-INSPECT.
- B. ADEM NOTICE OF TERMINATION THE PERMITTEE SHALL SUBMIT A NOTICE OF TERMINATION REQUEST AND CERTIFICATION FORM TO ADEM IDENTIFYING THE AUTHORIZATION NUMBER AND TO ADVISE ADEM THAT THE PROJECT IS COMPLETE AND

- A. NO FUEL OR OIL WILL BE STORED ON SITE.
- B. NO OIL OR GAS WILL BE DUMPED ONSITE.
- C. LOCATION OF TRAILER AND PORT-A-JOHN WILL BE FIELD DETERMINED TO AVOID CONSTRUCTION ACTIVITIES. LOCATION WILL CHANGE DURING CONSTRUCTION AS APPROPRIATE.
- D. PROJECT SITE SHALL BE KEPT CLEAR OF ALL HUMAN AND CONSTRUCTION DEBRIS. THE CONTRACTOR SHALL HAVE TRASH COLLECTED WEEKLY AND PLACED IN DUMPSTER TO BE HAULED OFF THE SITE. E. ALL WATER SUPPLY WILL BE PROVIDED FROM PUBLIC WATER UTILITY.
- F. ALL HUMAN WASTE WILL BE DISPOSED OF BY A LICENSED VENDOR OR IN PUBLIC SANITARY SEWER SYSTEM.
- G. ANY SPILLED OIL, GAS, ETC., RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE CONTAINED AND CLEANED IMMEDIATELY AND CONTAMINATED SOILS SHALL BE DISPOSED OF IN AN APPROVED MANNER AT A LICENSED LANDFILL.
- H. DUST SUPPRESSION OPERATIONS WILL BE DONE BY MEANS OF A WATER TRUCK SPRAYING WATER ON THE SURFACE OF THE SITE.

SEEDING NOTES:

- A. REFER TO THE LANDSCAPING PLAN FOR INFORMATION ON PERMANENT SEEDING, SOD, MULCH, TREES, SHRUBS, ETC.
- B. UNLESS OTHERWISE SPECIFIED IN THE LANDSCAPE PLANS, PRIOR TO SEEDING/SODDING APPLICATION, TREAT THE SOIL AS FOLLOWS:
- 1. 2 TONS OF AGRICULTURAL LIME PER ACRE.
- 2. 1200 LBS. OF 10-10-10 FERTILIZER PER ACRE OR EQUAL.
- D. THOROUGHLY INCORPORATE THE ABOVE AMENDMENT INTO THE FIRST 2 TO 3 INCHES OF SOIL. AFTER SEEDING, FIRM THE SEEDS INTO THE TOP ON-QUARTER INCHES OF SOIL. GRADE AREAS TO BE SEED/SODDED TO INSURE PROPER DRAINAGE WITH EVEN GRADES. MULCH IMMEDIATELY AFTER SEEDING WITH EITHER STRAW, HAY OR WOOD CELLULOSE FIBER. STRAW OR HAY SHALL BE APPLIED AT A RATE OF 100 POUNDS PER 1,000 SQUARE FEET. HAT OR STRAW SHALL BE STABILIZED WITH AN ADHESIVE. ALL SLOPES WHICH EXCEED 3:1 SHALL BE SOLID SODDED, HYDROSEEDED OR SHALL BE COVERED IN A ROLLED EROSION CONTROL BLANKER (NORTH AMERICAN GREEN S150 OR APPROVED EQUAL) AND SEEDED.
- E. WATER AS PER LANDSCAPING PLAN TO ESTABLISH SEED OR SOD. ALL AREAS THAT DO NOT SHOW 80% COVERAGE SHALL BE RE-SEEDED UNTIL PERMANENT GRASS HAS BEEN ESTABLISHED WITH NO BARE AREAS OR WASH-OUTS. F. AFTER GRASS HAS SHOWN GROWTH (APPROXIMATELY 40 DAYS) AND WHILE SOIL SURFACE IS MOIST, TOP DRESS WITH HIGH NITRATE FERTILIZER AT A RATE OF 50 LBS NITROGEN PER ACRE.
- G. ALL SODDING SHALL BE INSTALLED IN ACCORDANCE TO ALABAMA HANDBOOK FOR EROSION, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, 2018 EDITION.
- ALL EROSION CONTROL DEVICES SHALL BE INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS.

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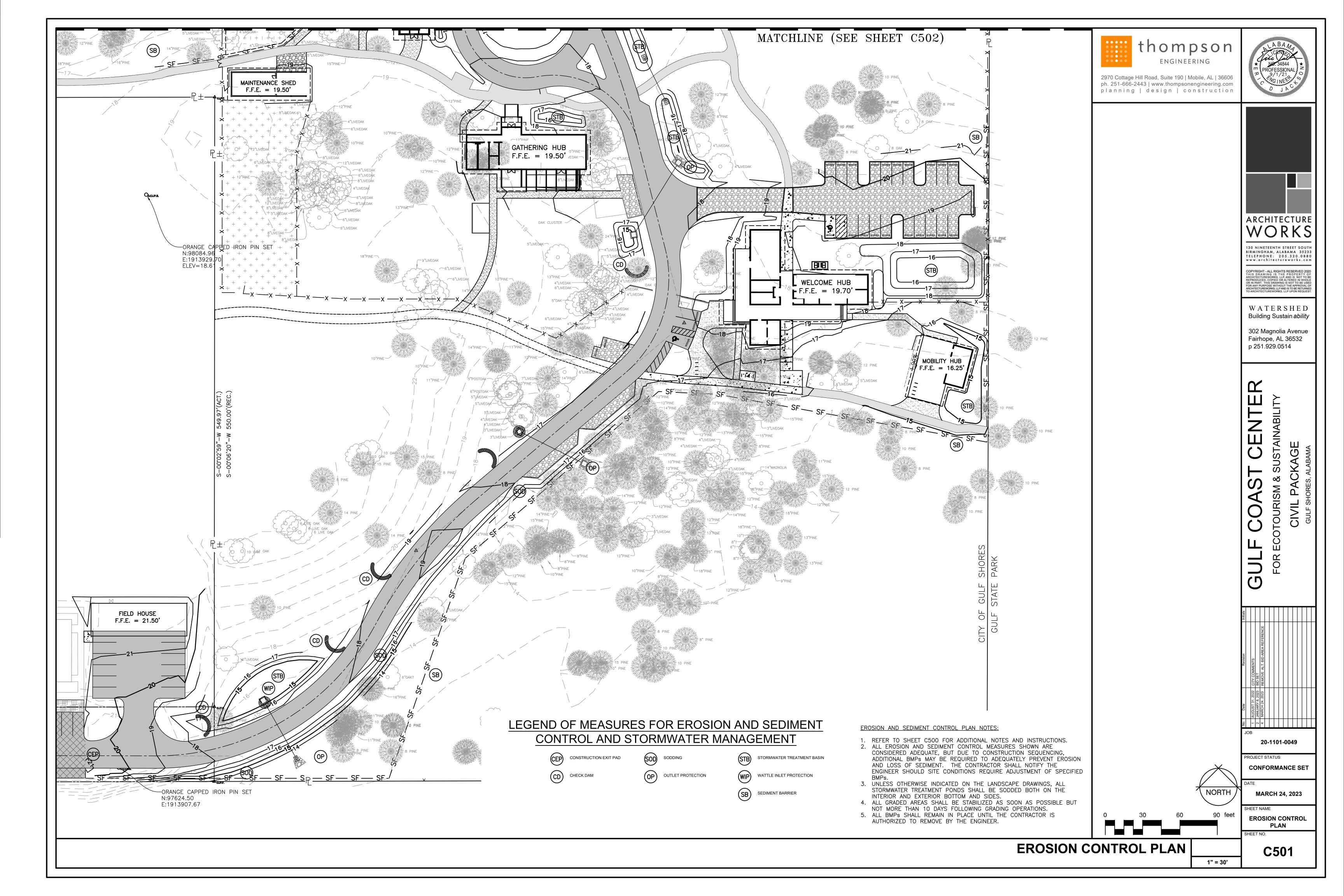
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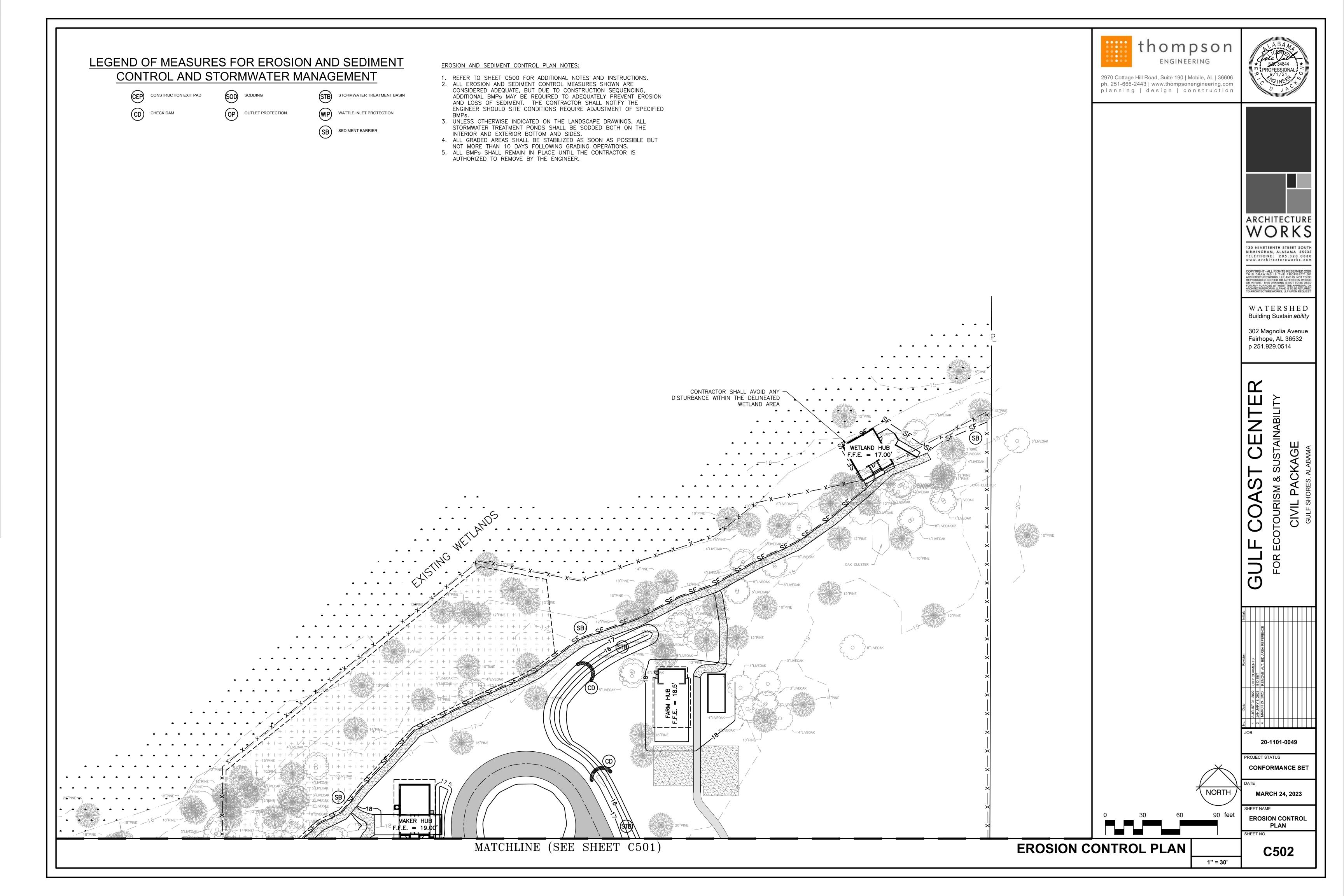
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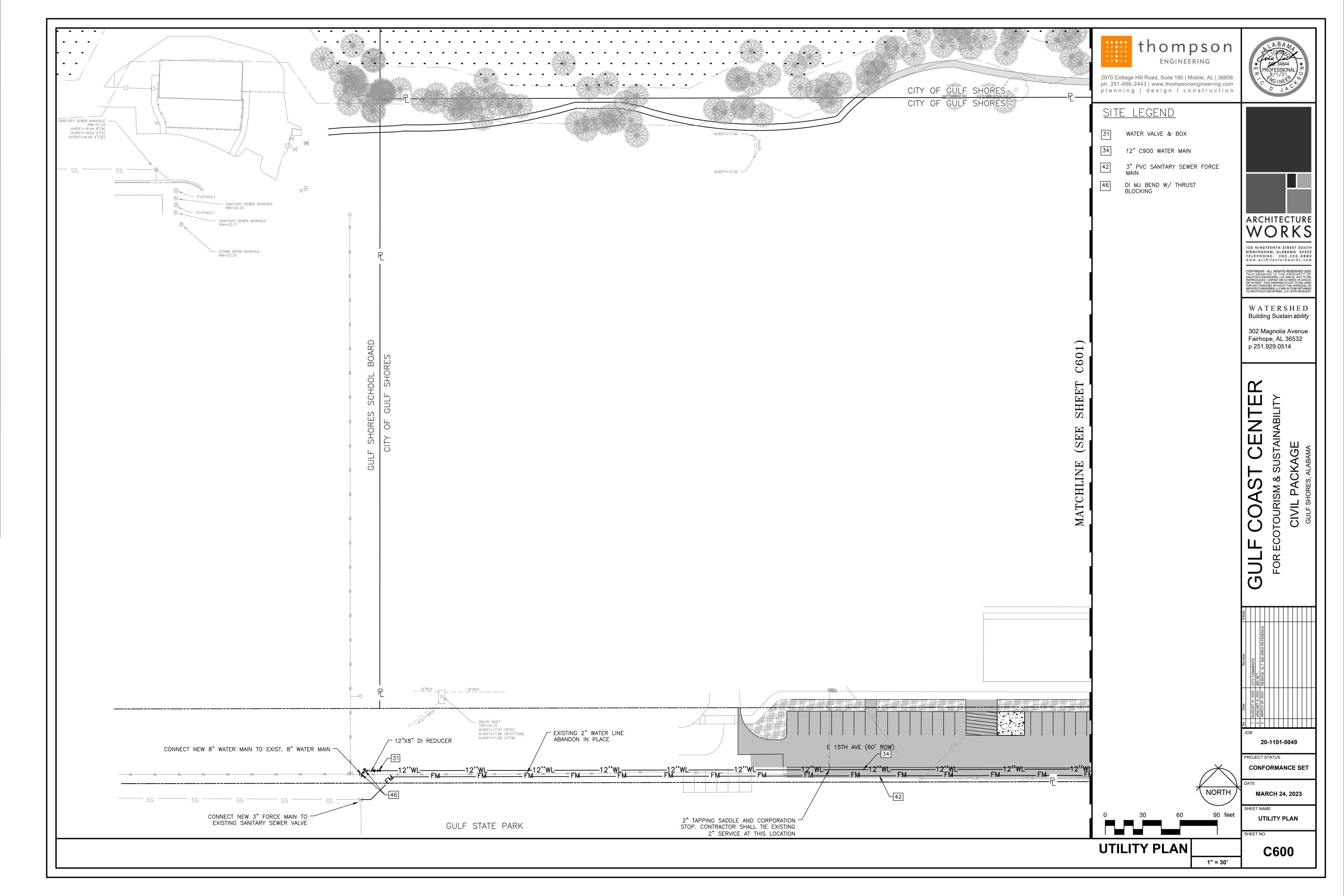
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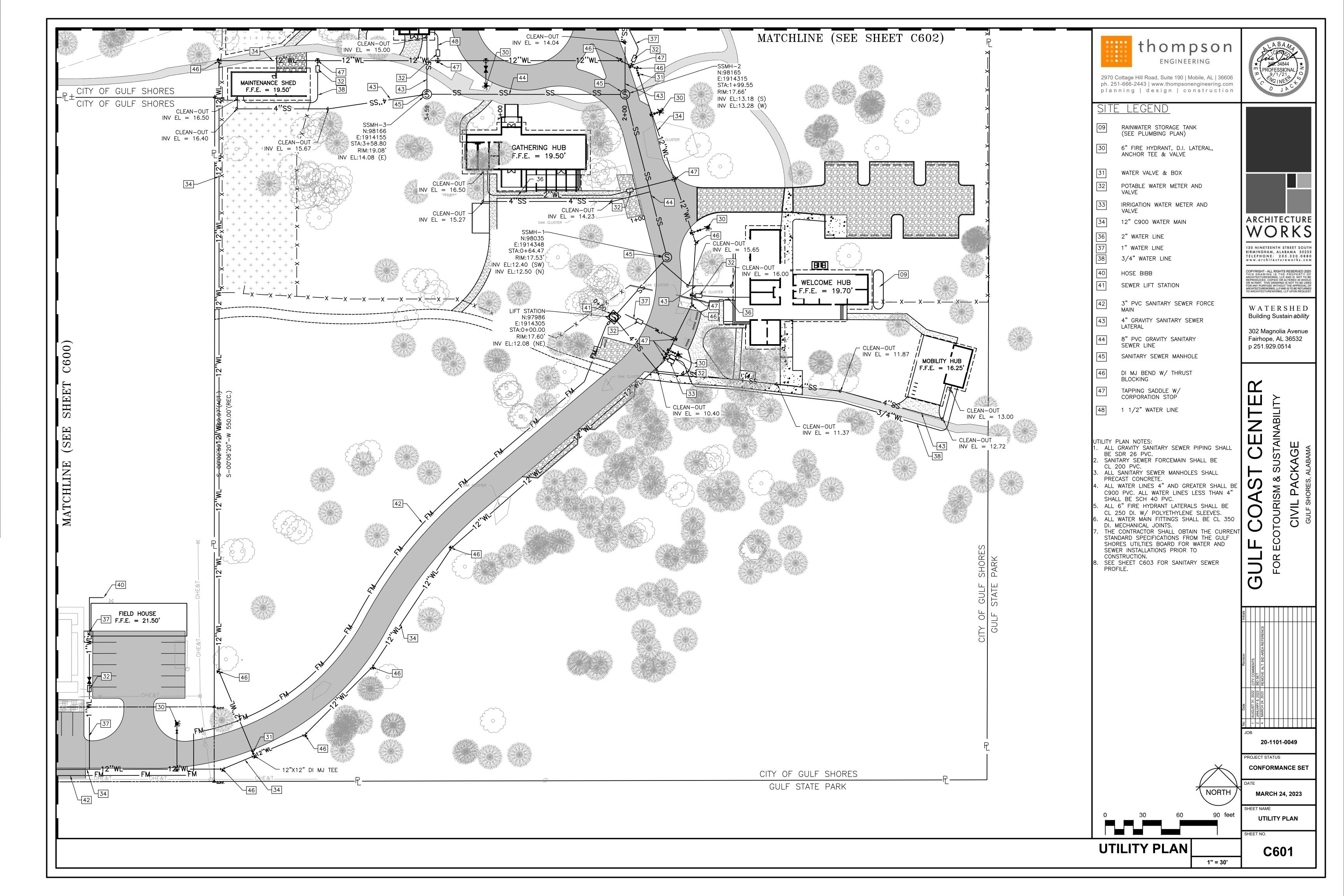
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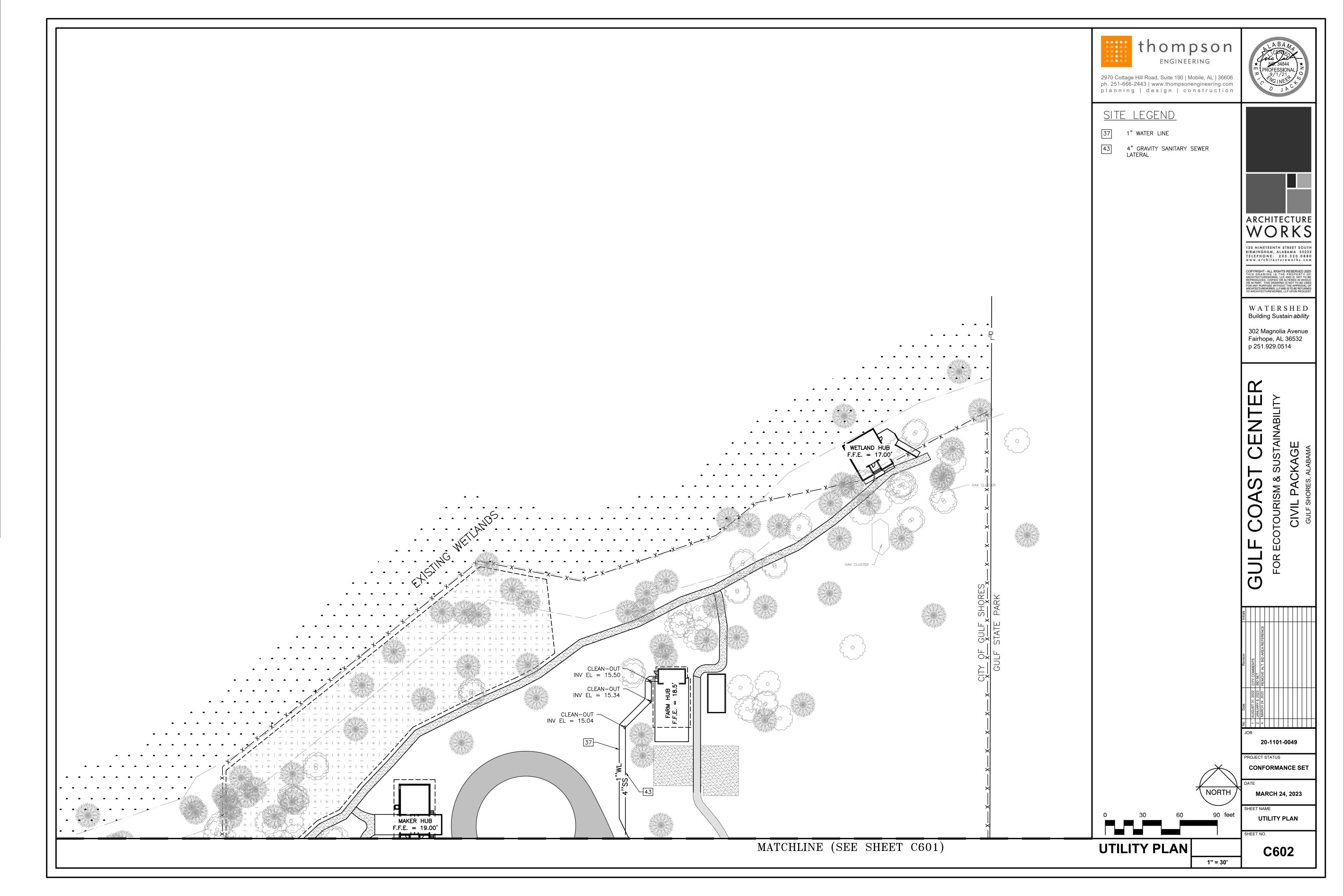
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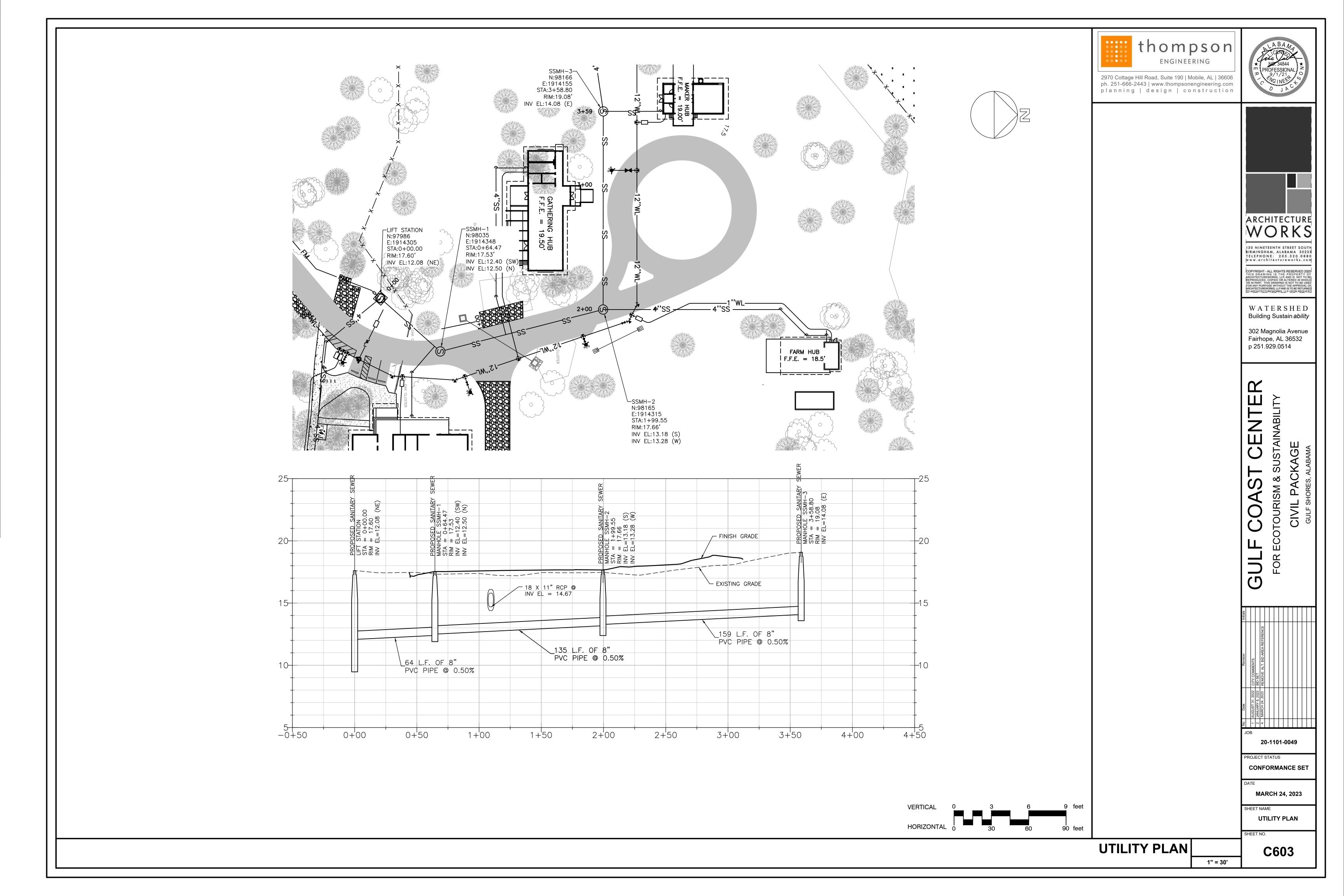


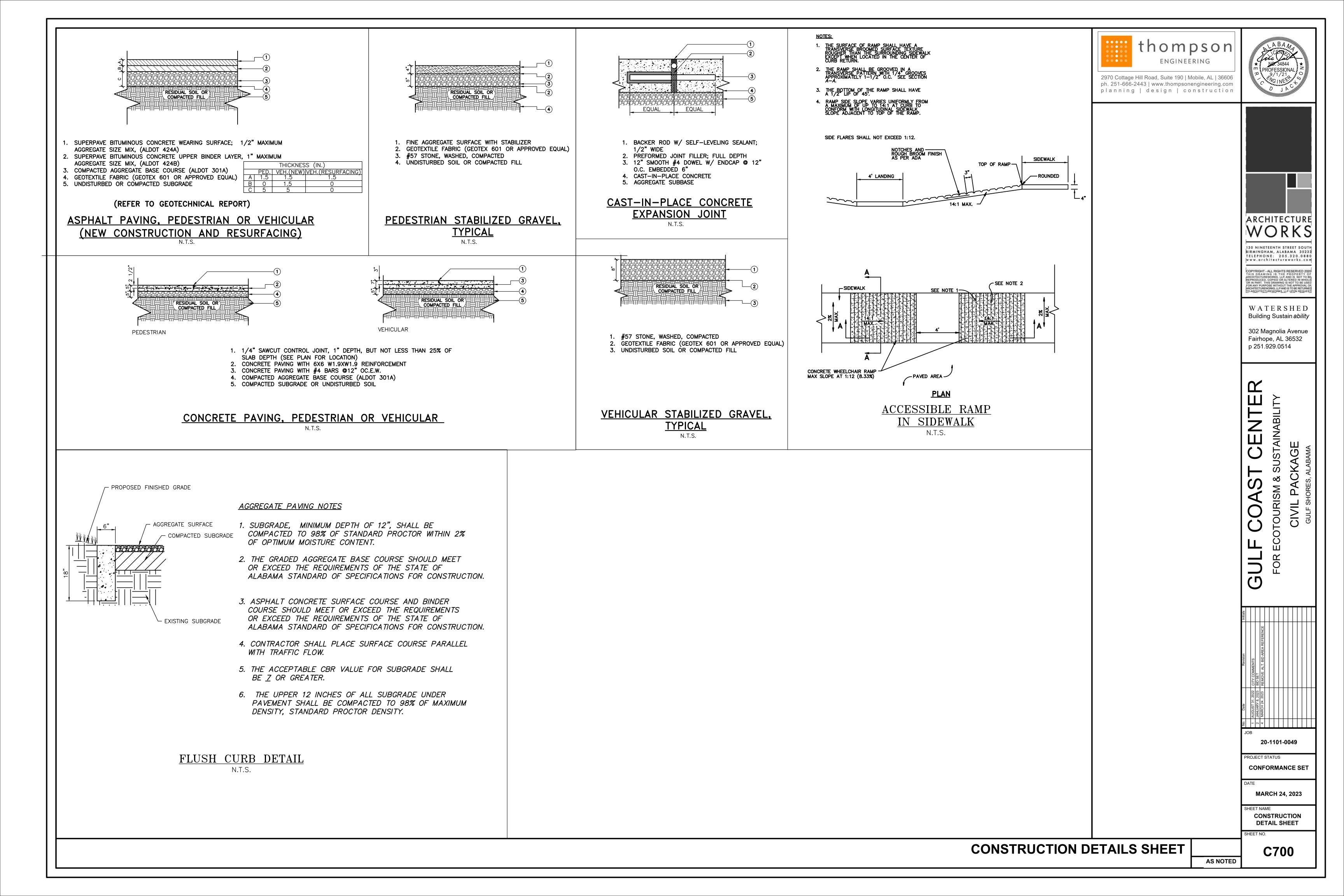


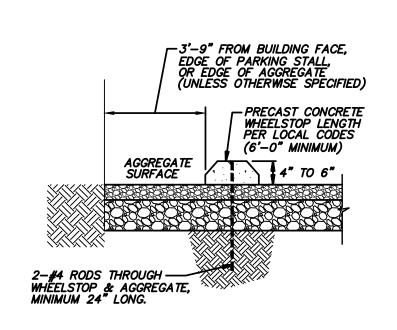




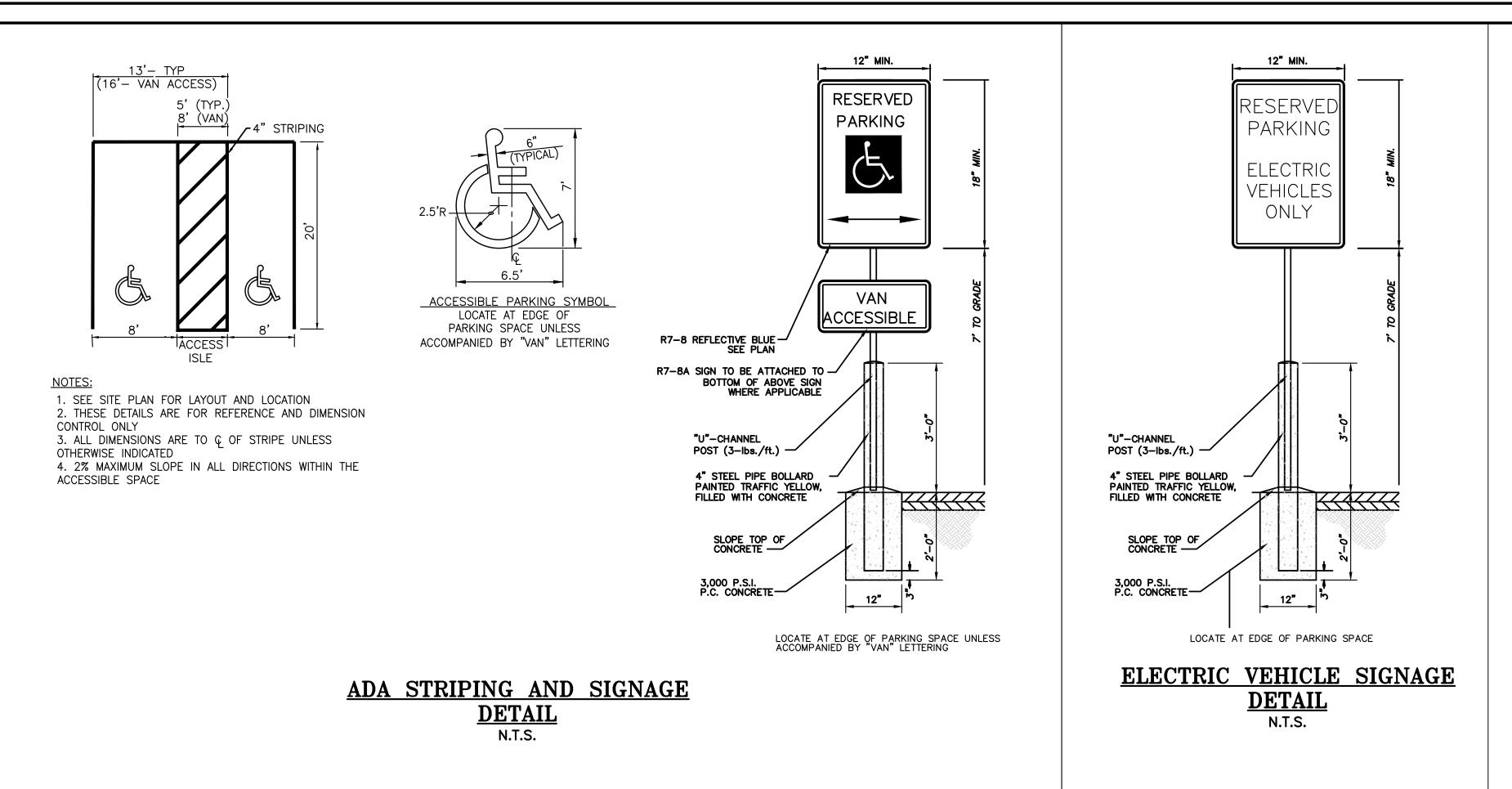


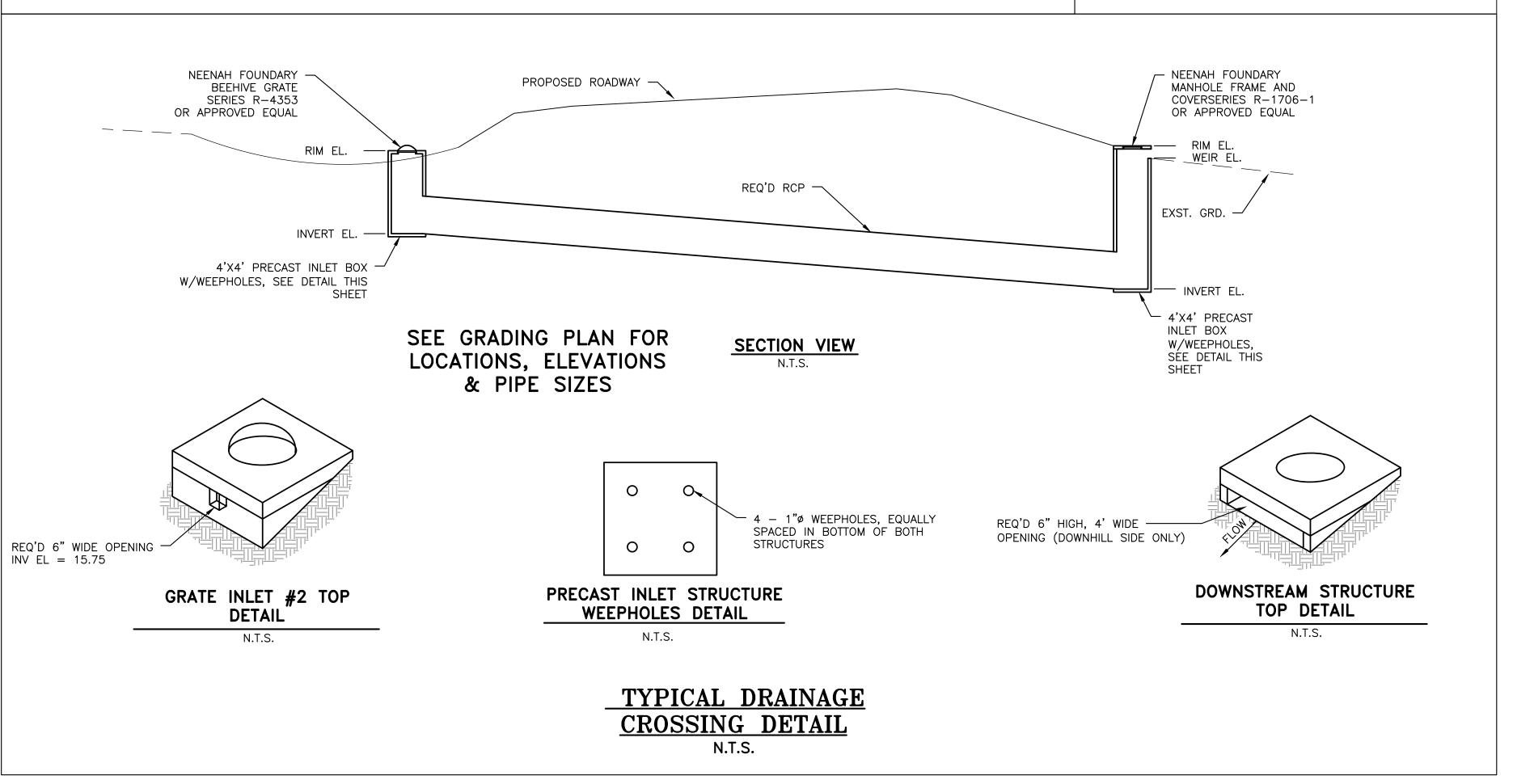






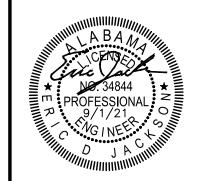
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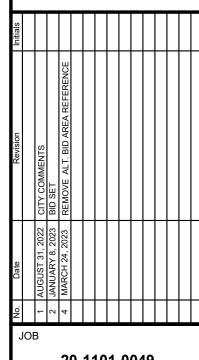
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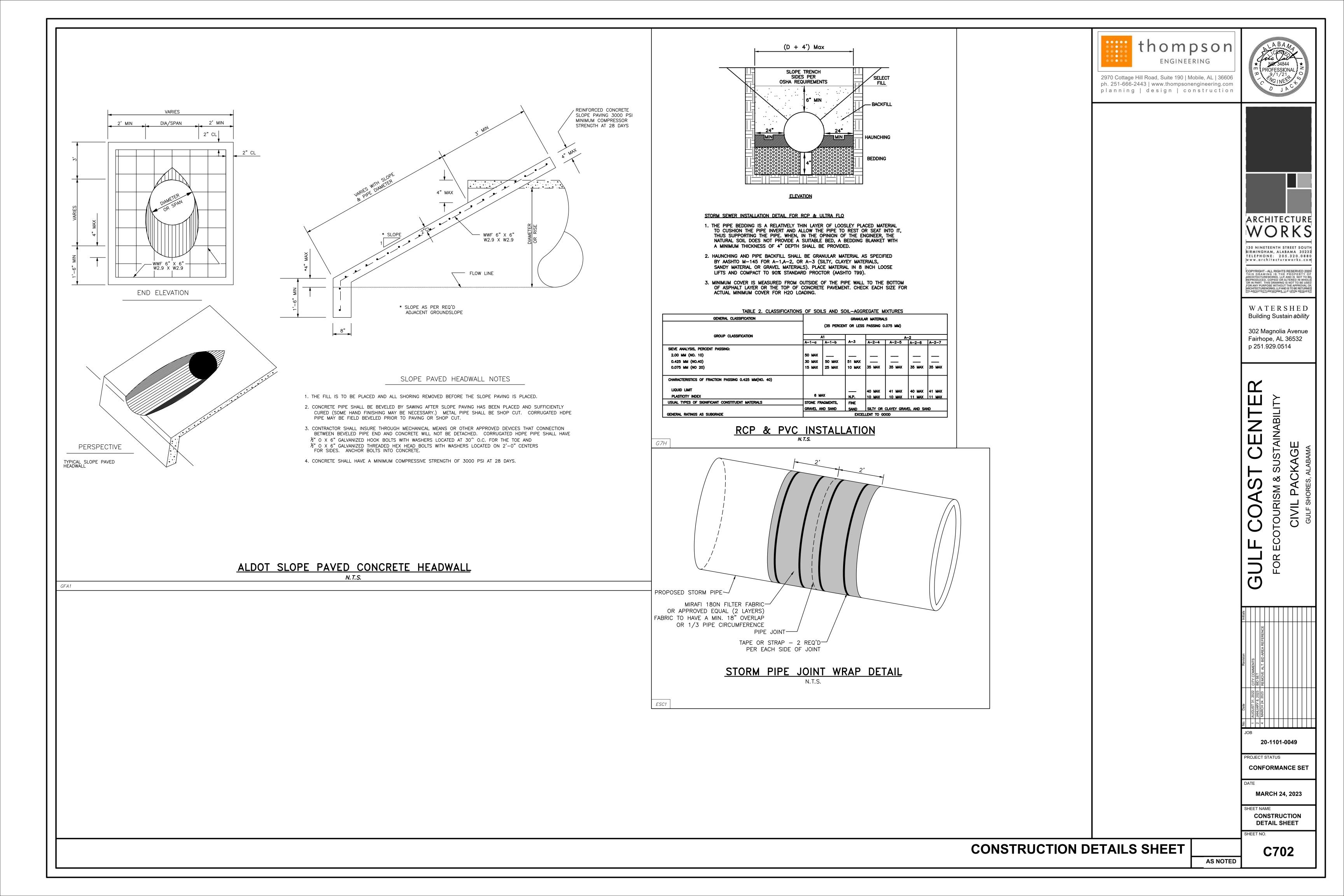
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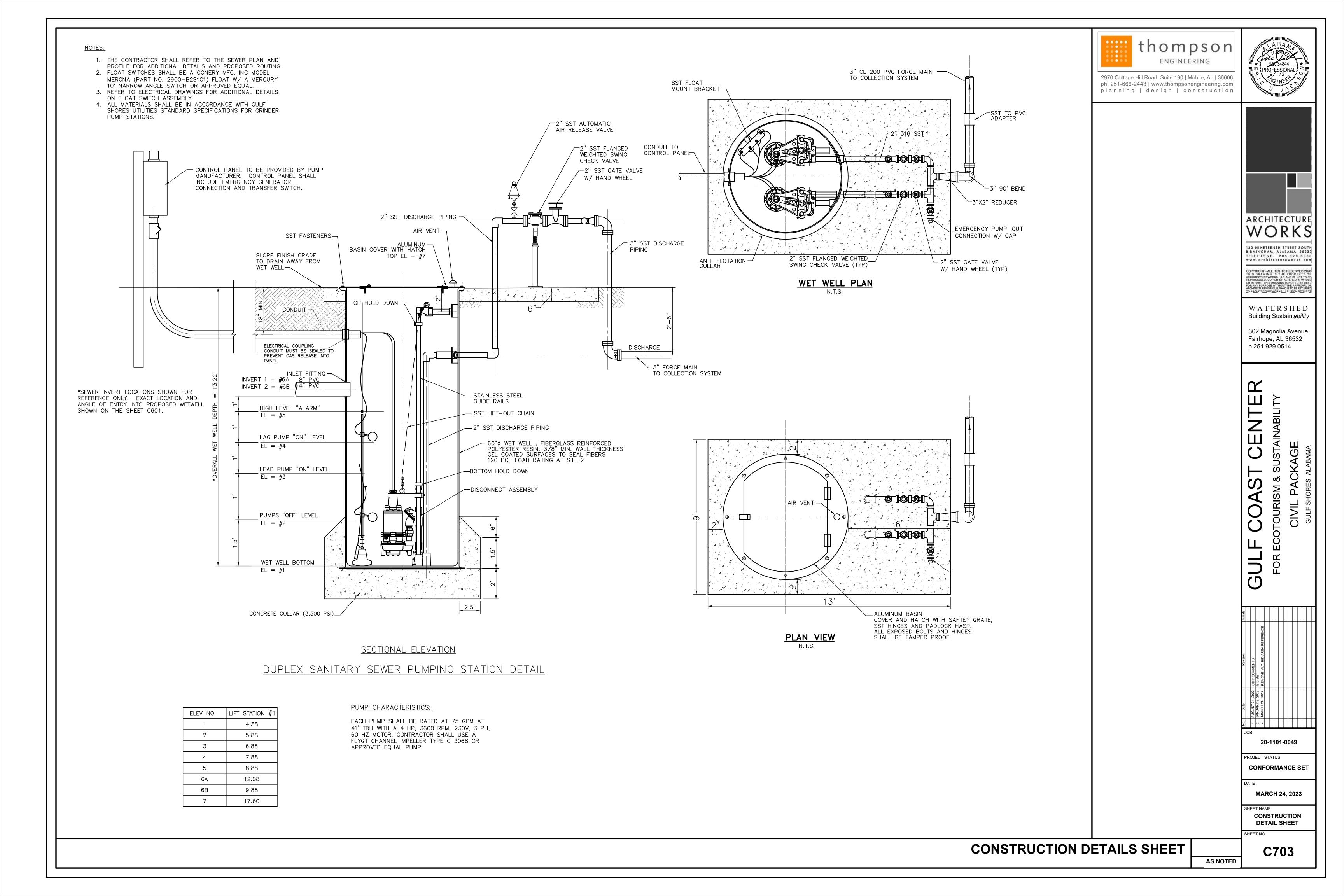
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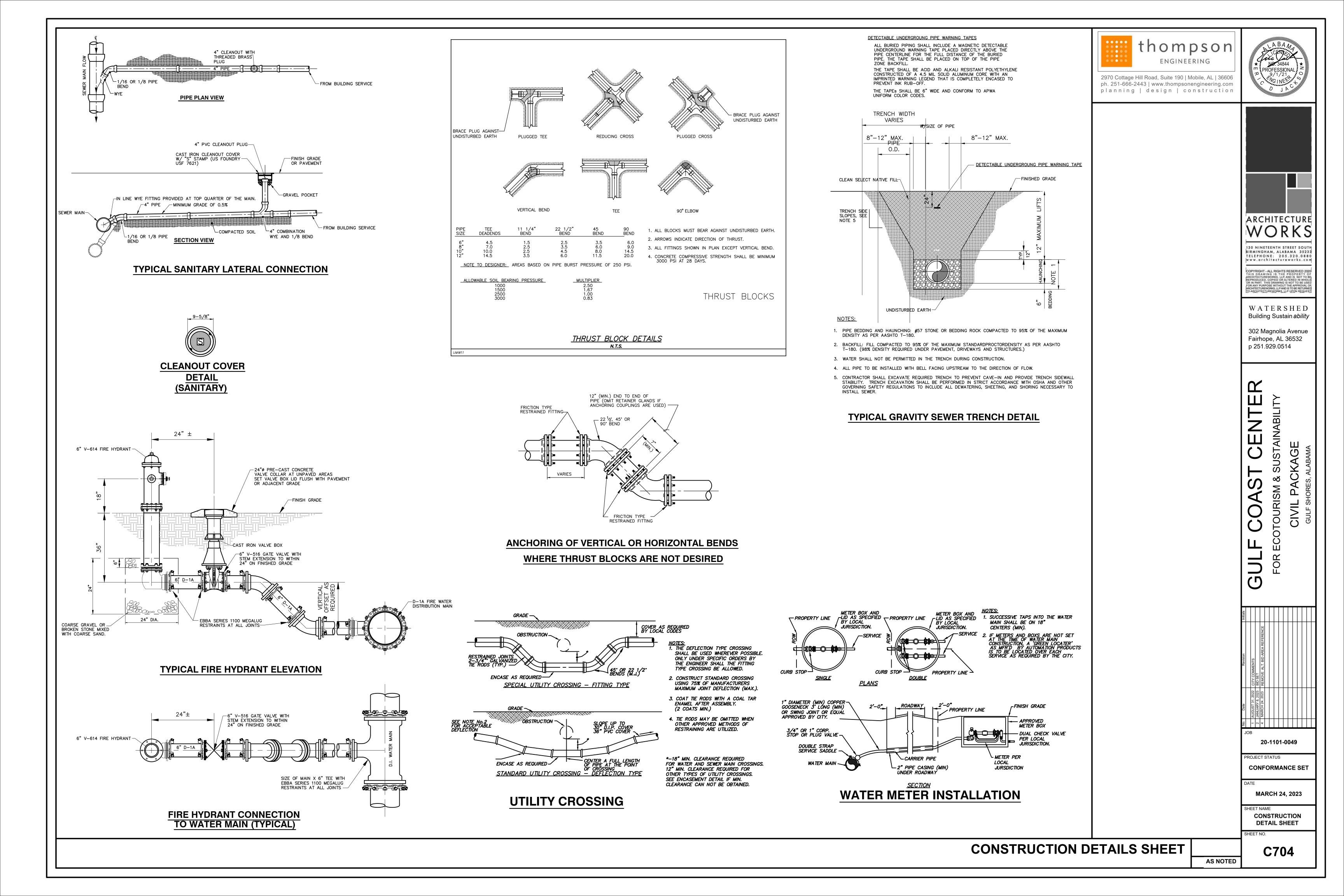
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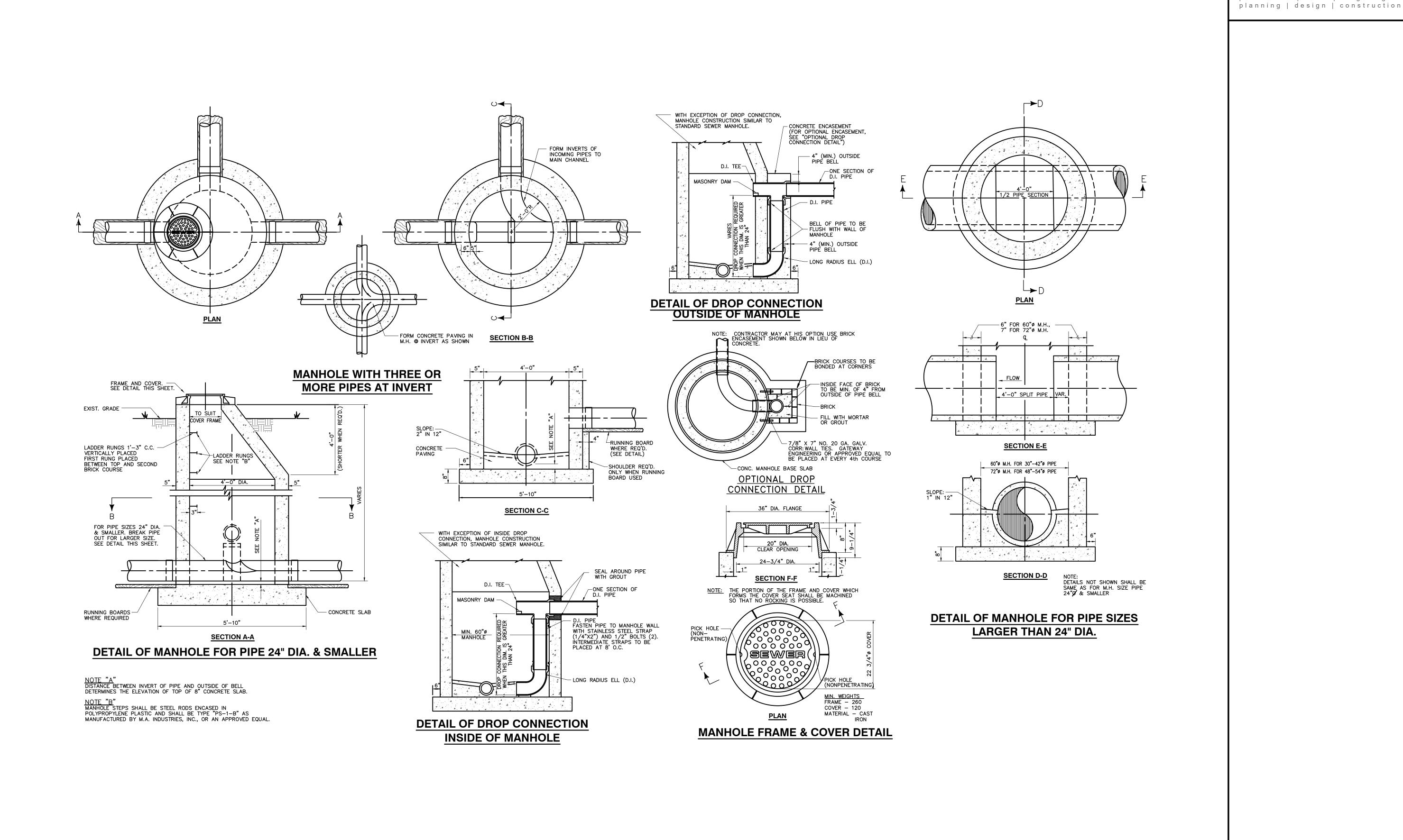
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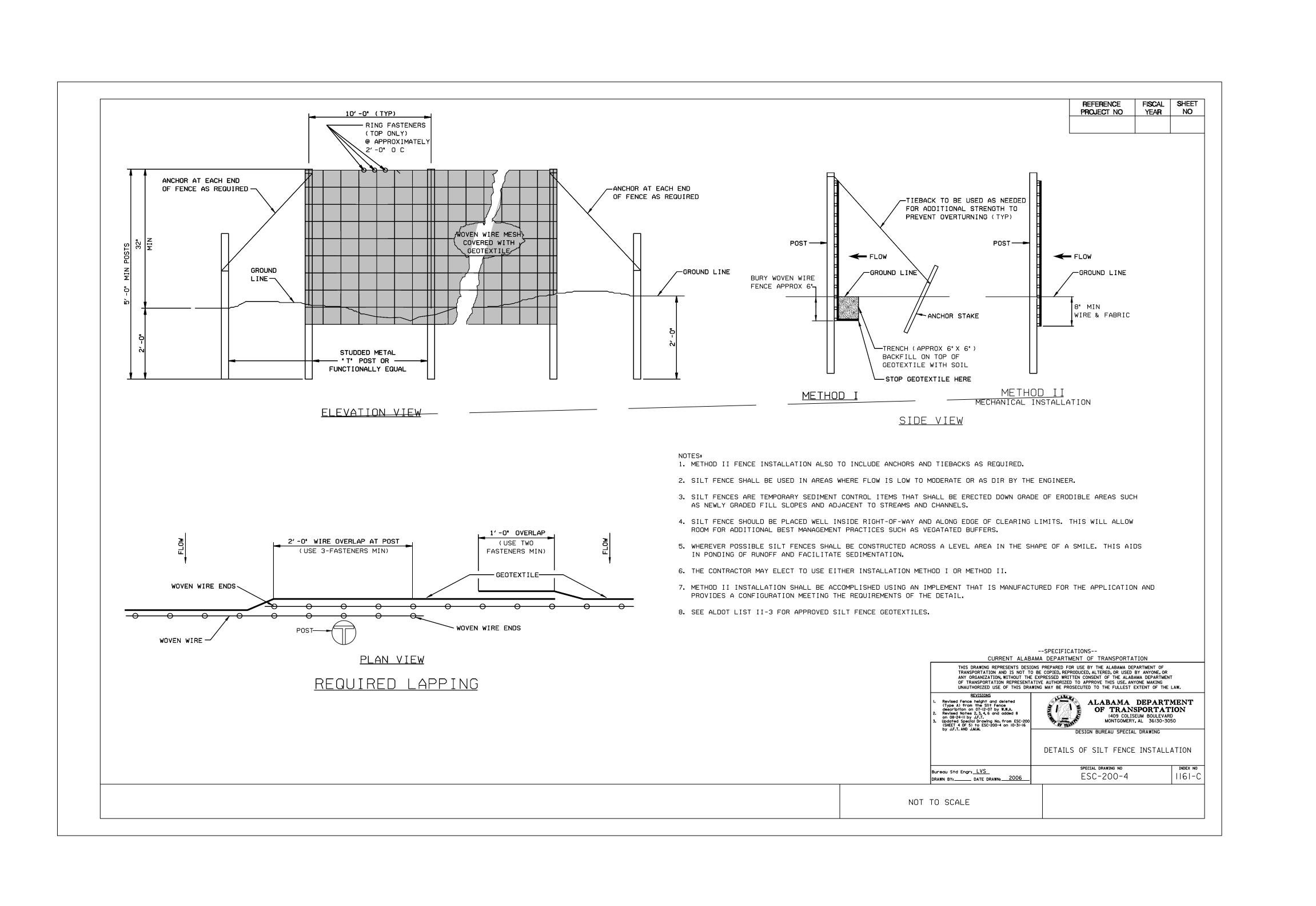
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PROJECT STATUS **CONFORMANCE SET**

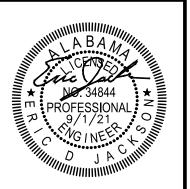
MARCH 24, 2023

CONSTRUCTION **DETAIL SHEET**





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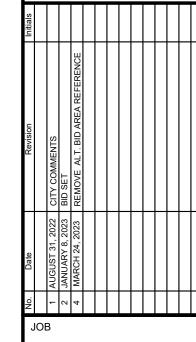
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REFERENCE PROJECT NO

20", WATTLE -

GEOTEXTILE -

UNDERLAYMENT

TRENCH 5" MIN

FISCAL SHEET YEAR NO

- ANGLE ANCHORS TOWARD

CHANNEL — BOTTOM

--SPECIFICATIONS--

Bureau Std Engr: D.J.W.

DRAWN BY: ____ DATE DRAWN: 2006

WATTLE THROUGH FABRIC

ALABAMA DEPARTMENT OF TRANSPORTATION

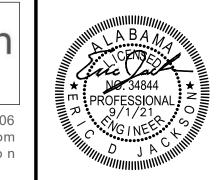
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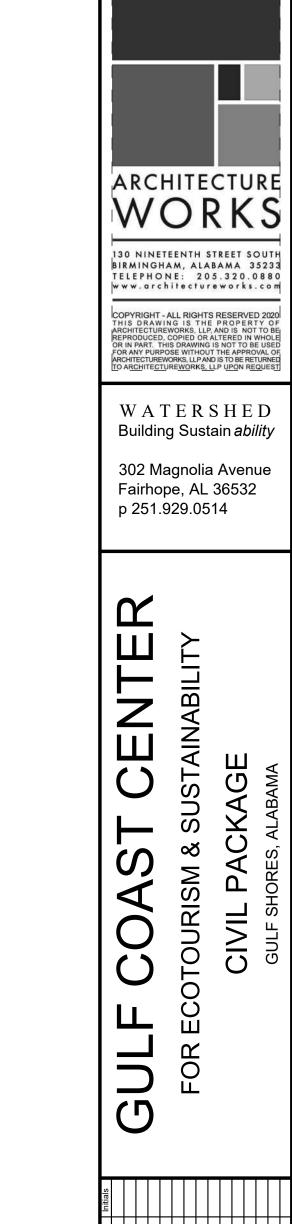
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DESIGN BUREAU SPECIAL DRAWING

DETAILS OF EROSION CONTROL WATTLE DITCH CHECKS

ESC-300-4





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AS NOTED

CONSTRUCTION DETAILS SHEET

AND COMPACTED SECTION A-A STAPLES 18" ON CENTER — _STAPLES 10" ON CENTER NOTES: 1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100 FEET UNLESS SHOWN OTHERWISE ON THE PLANS OR APPROVED BY THE ENGINEER, SEE SPACING GUIDANCE ON DETAIL (DITCH CHECK) ESC-300-1. 2. ANCHORING STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT DITCH EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET. EL A 3. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS. — WATTLE ELB _ 4. STAPLES SPACED 18 INCHES APART, ALONG THE CHANNEL EDGES AND DOWN THE CENTER OF THE CHANNEL.STAPLES SPACED 10 INCHES APART, ACROSS THE UPSTREAM AND DOWNSTREAM EDGES. _MIN OF 2\UPSTREAM STAKES> GEOTEXTILE UNDERLAYMENT CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION THIS DRAWING REPRESENTS DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND IS NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE THIS USE, ANYONE MAKING UNAUTHORIZED USE OF THIS DRAWING MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW. e TOE> ∠e ç and 2′0 C REVISIONS

Added in "SECTION A-A" REQUIRED
TRENCHING and deleted Note 5. Deleted
"FLOCCULANT ZONE (SEE NOTE 5) on
08-24-11 by J.F.T.
Revised and updated "DETAIL (DITCH
CHECK) and "ELEVATION DETAIL". Revised
text of "WATTLE DITCH CHECH SELECTION
GUIDELINES" and adjusted and revised
"SECTION A-A" on 09-24-12 by J.F.T.
Revised Notes 1 and 4 on 10-20-14
by J.F.T.
Updated Special Drawing No. from ESC-300
(SHEET 4 OF 8) to ESC-300-4 on 10-31-16
by J.F.T. & J.M.M. WATTLE DITCH CHECK SELECTION GUIDELINES ELEVATION DETAIL WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT

STAPLES (DOWN CENTER)

___ NARROW 5" TRENCH PERPENDICULAR TO FLOW ACROSS CHANNEL

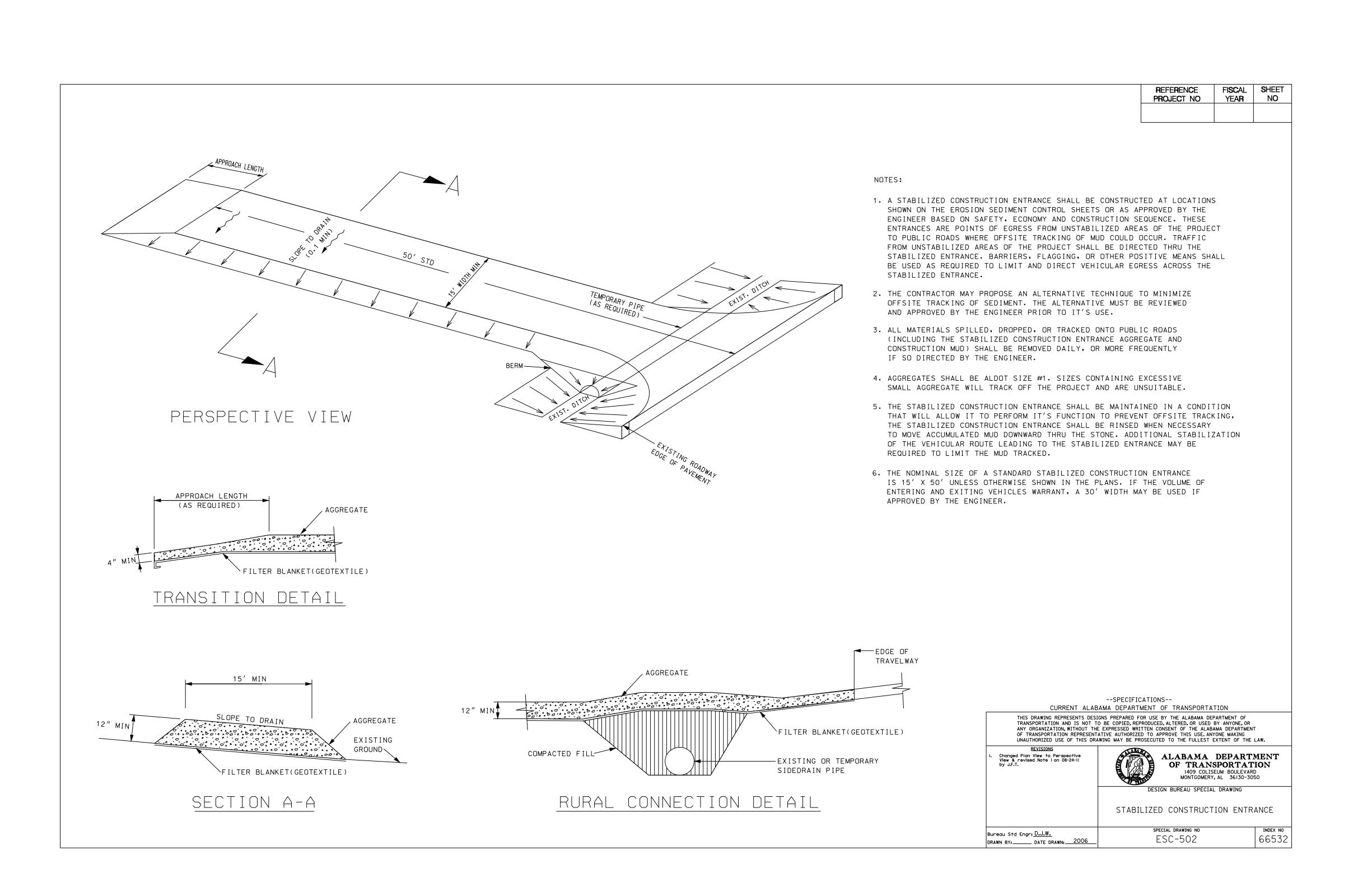
STAPLES 10" ON CENTER

NOTE: END POINTS A MUST BE HIGHER THAN FLOWLINE POINT B

SEE ELEVATION DETAIL

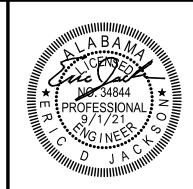
FOR HEIGHT OF WATTLE ENDS

TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS NOT EXCEEDING 1.0 CU FT/SEC.





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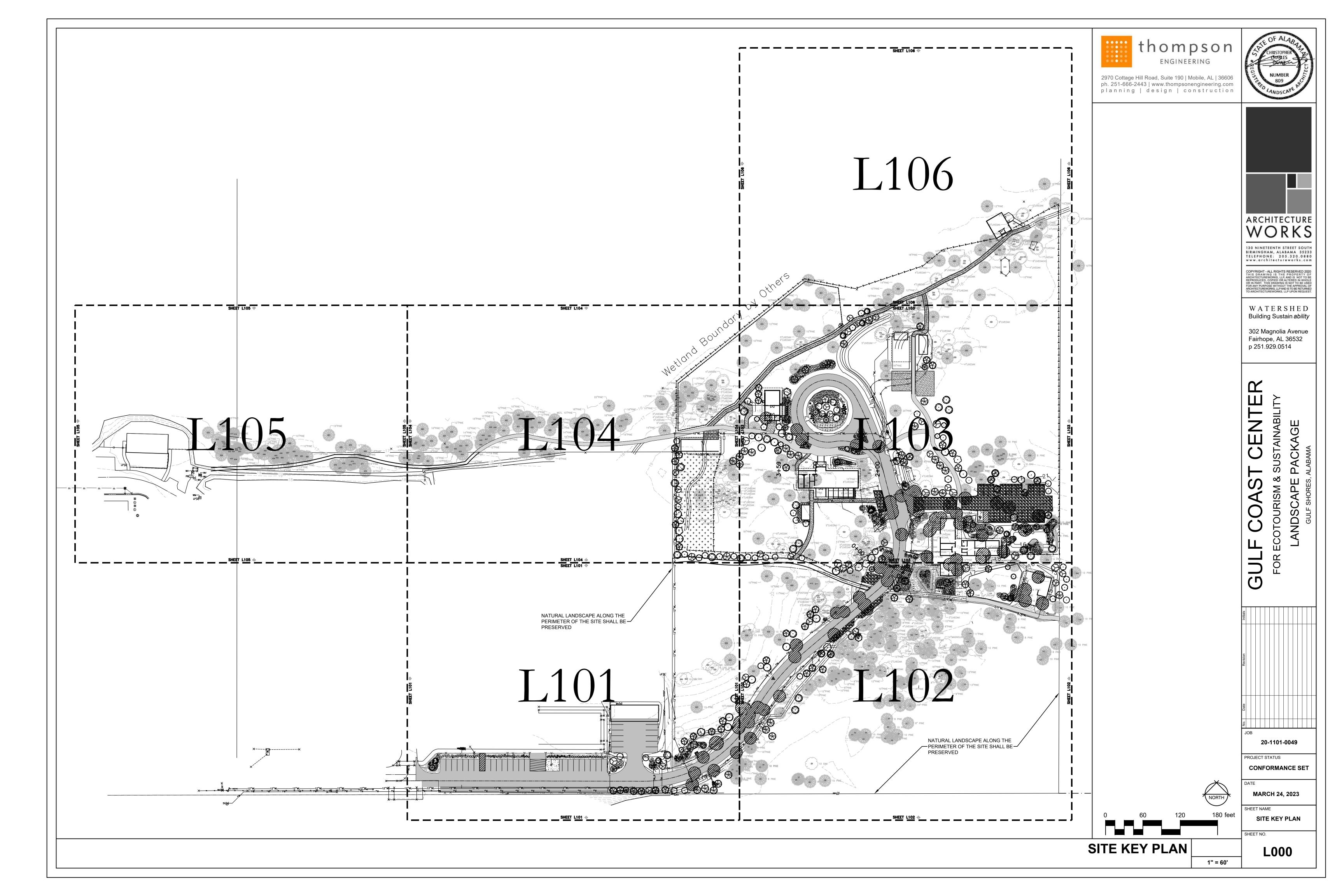
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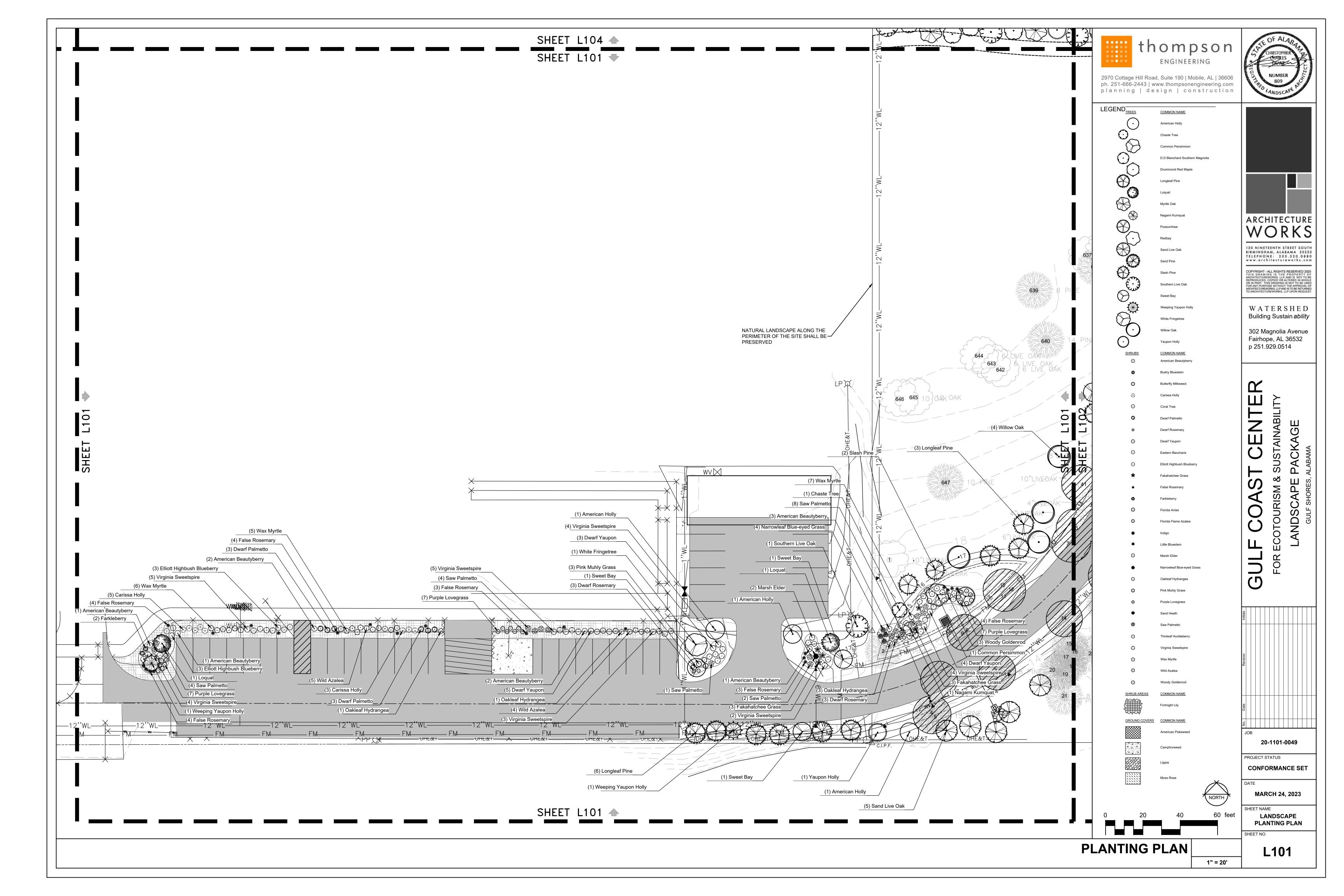
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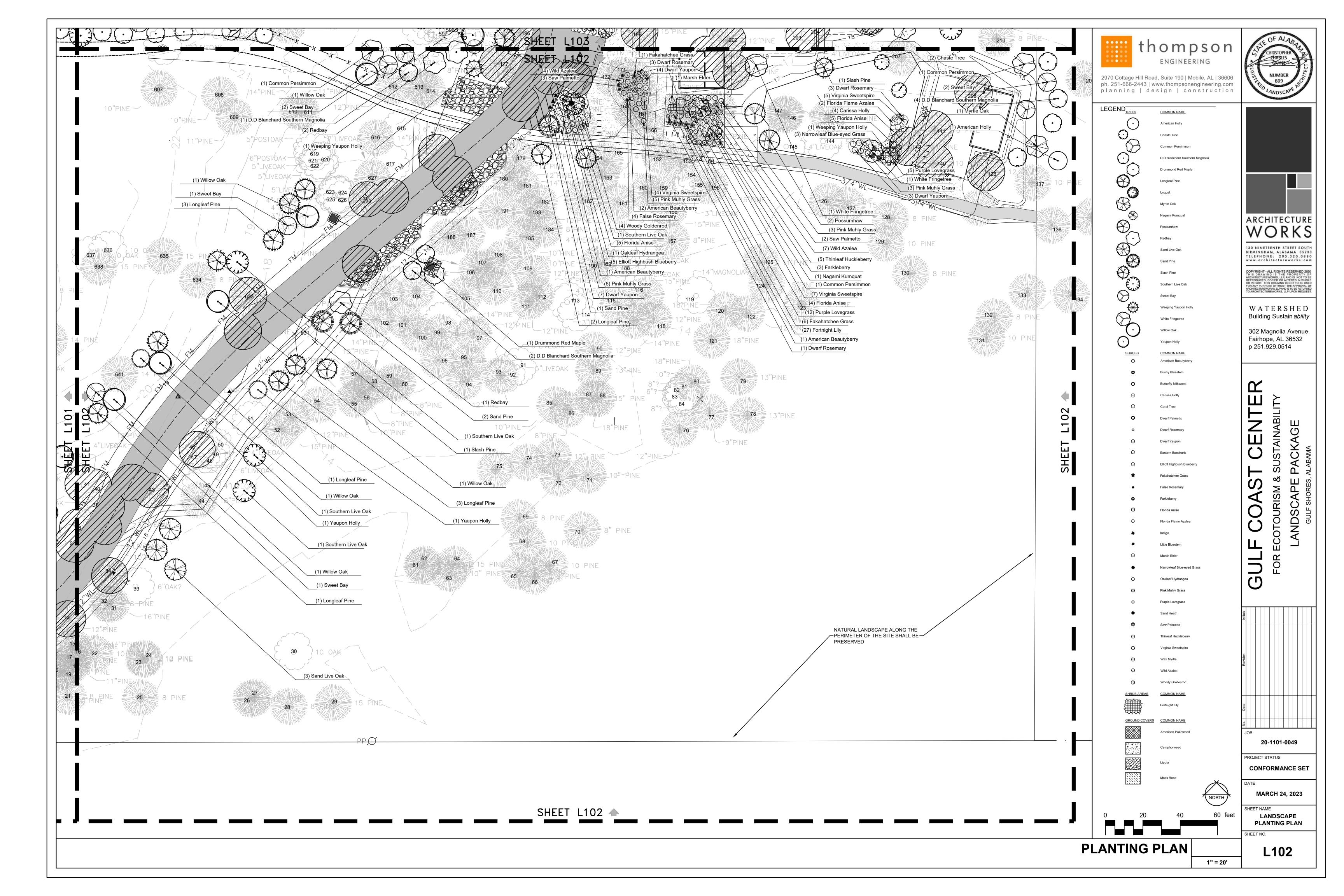
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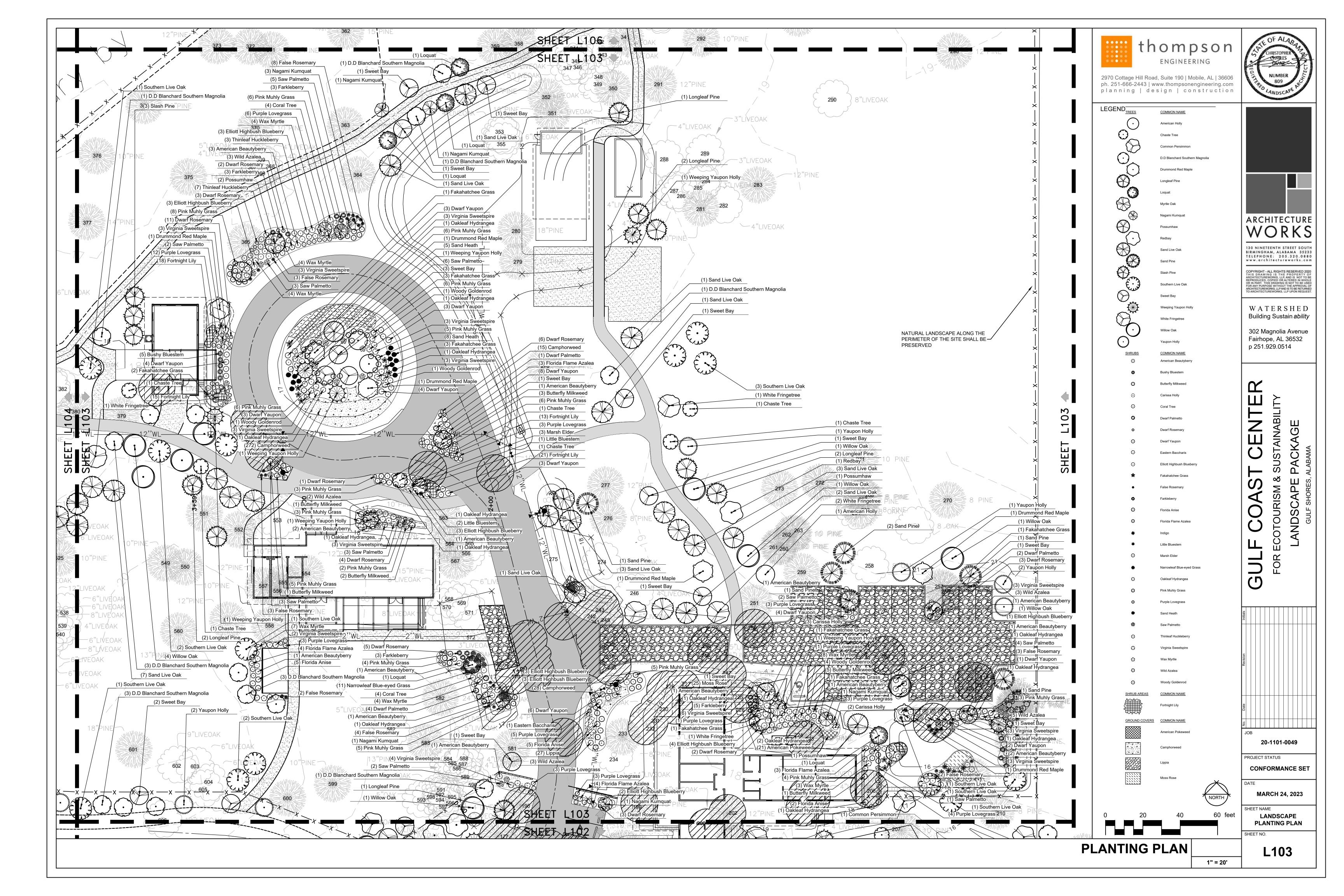
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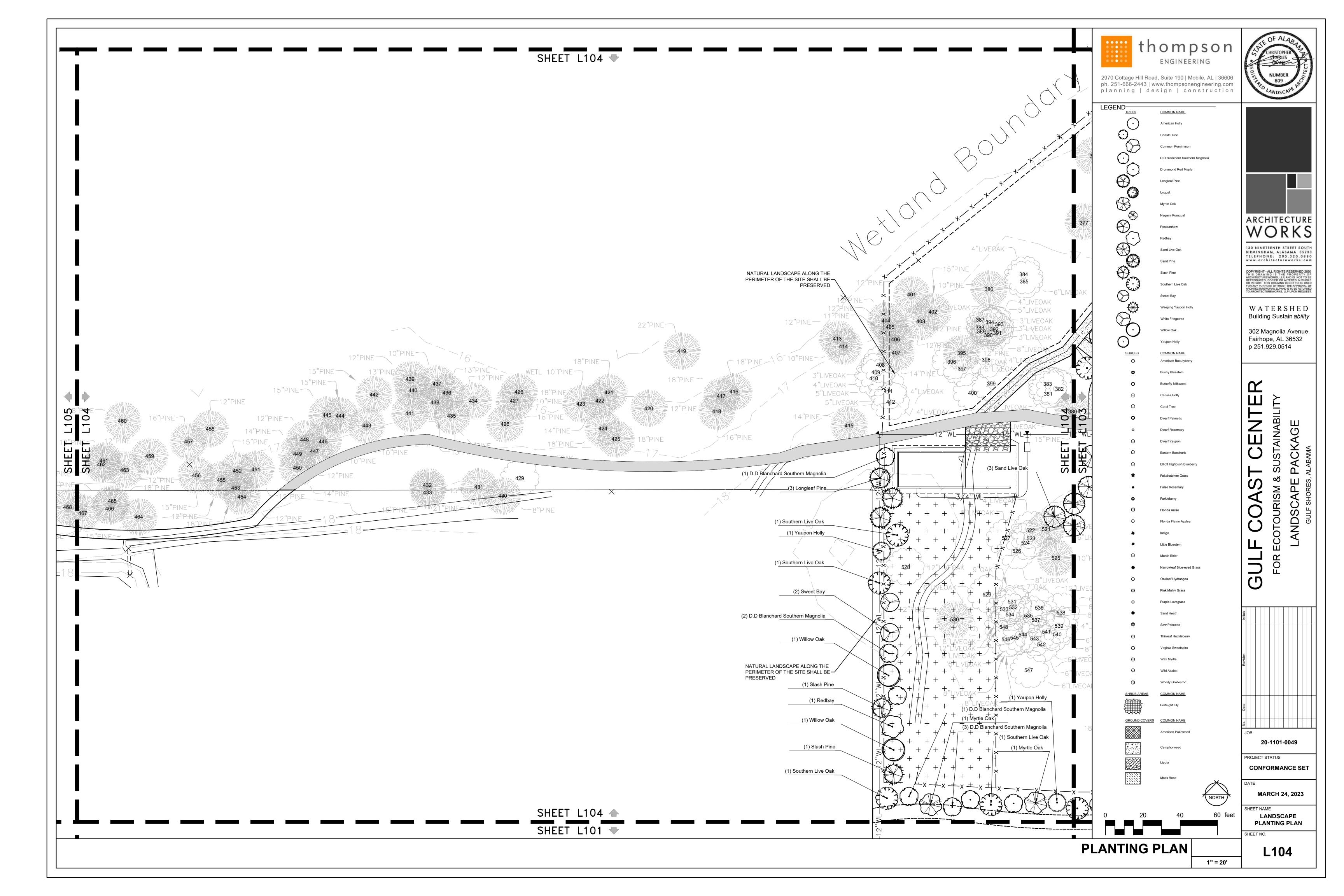
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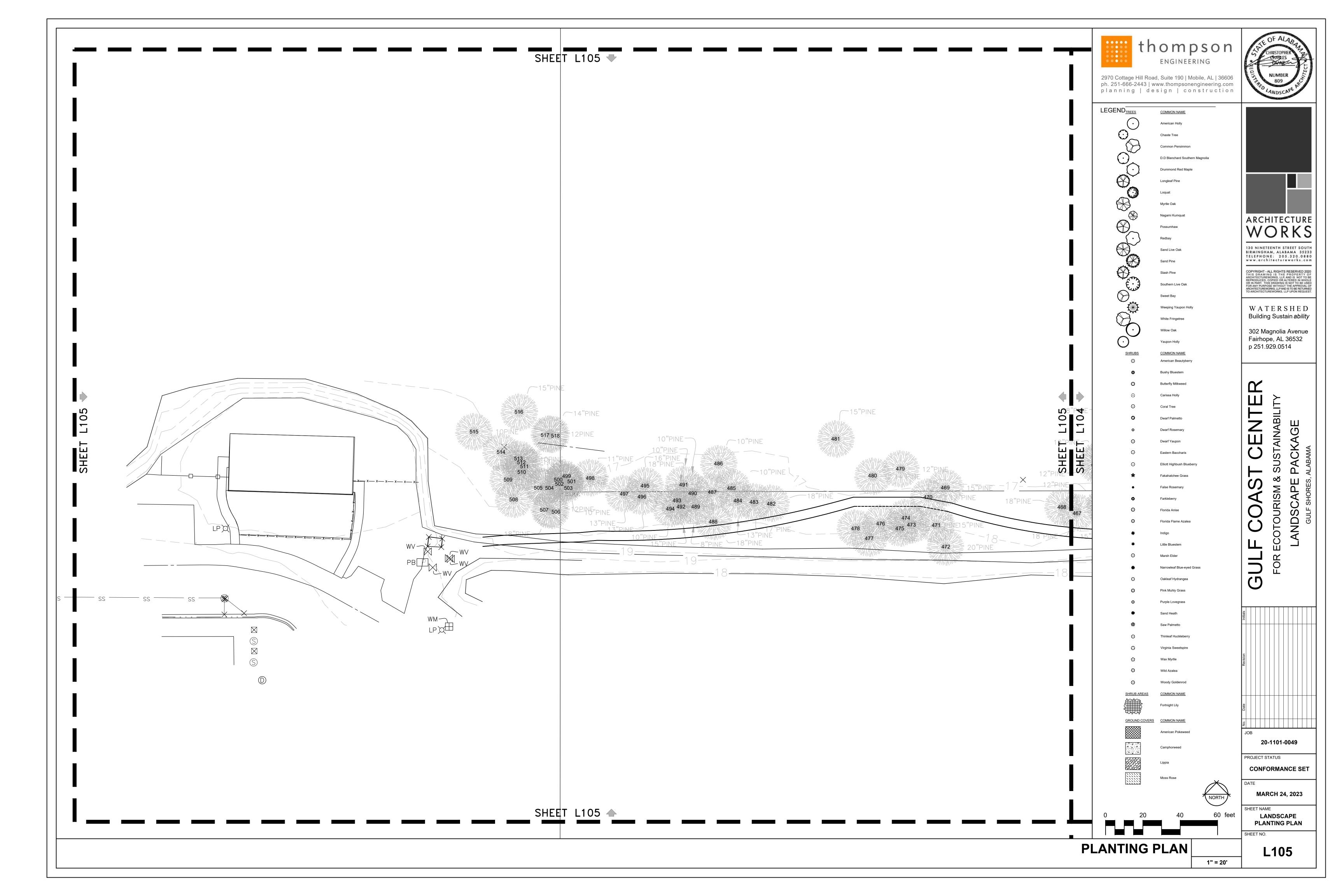


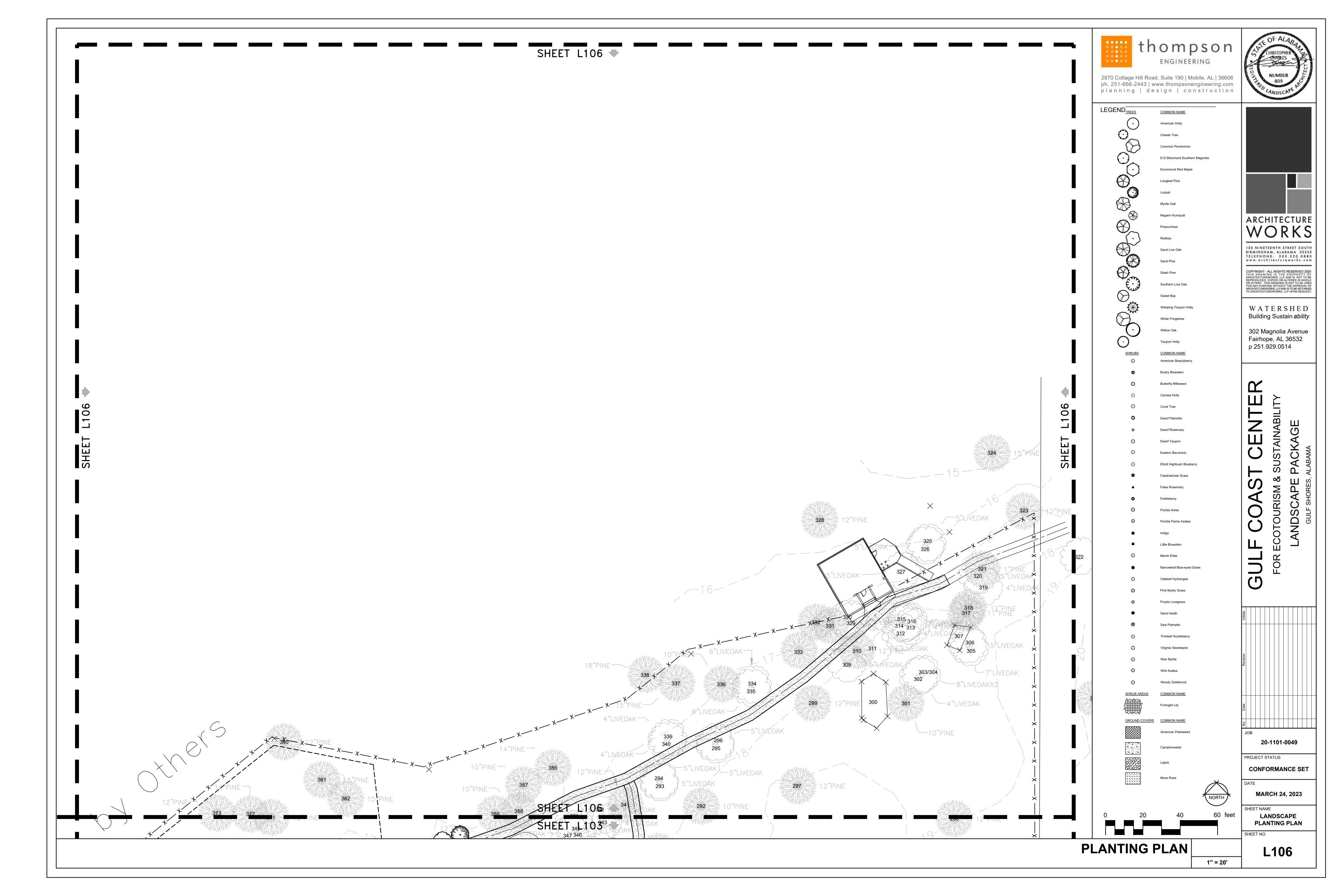














Southern Magnolia - Magnolia grandiflora

- LARGE NATIVE EVERGREEN TREE
- DENSE 80' IN HEIGHT, 30' SPREAD
- GREAT FOR SCREENING
- LARGE FRAGRANT FLOWERS
- RESISTANT TO BREAKAGE
- LOW MAINTENANCE
- HIGH RESISTANCE TO SALT MODERATELY DROUGHT TOLERANT



Slash Pine - Pinus elliottii var. elliottii

- NATIVE EVERGREEN
- RAPID GROWTH RATE
- LONG CONES AND NEEDLES FAVORED BY WILDLIFE
- DROUGHT TOLERANT, MODERATELY SALT TOLERANT
- HAS SURFACE ROOTS
- PLANT IN GROUPS FOR NATURAL SETTING
- LIMB BREAKAGE POSSIBLE
- PLANT WITH UNDERSTORY TREES



Live Oak - Quercus virginiana

LARGEST OF OAKS, 60-80' IN HEIGHT, 60' 120' SPREAD

DROUGHT AND SALT TOLERANT, PEST FREE

• REQUIRES YEARLY PRUNING FOR FIRST 3 YEARS

NATIVE, SPECIMEN

RESISTANT TO BREAKAGE

GROWTH 3' PER YEAR

ACORNS, WILDLIFE FOOD

Longleaf Pine - Pinus palustris

- ATTRACTIVE (DROOPING BRANCHES, NATIVE EVERGREEN
- SPECIMEN, 60'-125' IN HEIGHT
- REQUIRES PROTECTION FROM HEAVY EQUIP. DURING CONSTRUCTION
- DROUGHT TOLERANT, MODERATELY SALT TOLERANT
- LONG CONES 6-10", 8 -14" NEEDLES
- MODERATE TO FAST GROWTH
- LOW MAINTENANCE REPRODUCED BY FIRE



- SLOW GROWER, SHRUB TO SMALL TREE
- FRAGRANT, SHOWY FLOWERS
- DROUGHT TOLERANT
- ATTRACTS BEES, BIRDS AND OTHER WILDLIFE
- LOW MAINTENANCE

Chaste Tree - Vitex agnus-castus

- LARGE 50' TREE, DECIDUOUS

- LOW MAINTENANCE



Sand Live Oak - Quercus geminata

- SMALLER OAK 50' IN HEIGHT
- NATIVE, EVERGREEN
- DROUGHT, SALT AND WIND RESISTANT
- COMPARTMENTALIZE DECAY
- HOST FOR GRAY HAIRSTREAK BUTTERFLY LOW MAINTENANCE

Common Persimmon - Diospyros virginiana

SMALL TO MEDIUM NATIVE TREE

FALL FRUIT ATTRACTS WILDLIFE

DROUGHT AND SALT TOLERANT

RESISTANT TO BREAKAGE

USE TO NATURALIZE SETTING

SHOWY FALL COLOR

LOW MAINTENANCE

SCULPTURAL TRUNK



Myrtle Oak - Quercus myrtifolia

- SCRUB OAK, NATIVE, EVERGREEN
- ACORNS, WILDLIFE FOOD
- SHRUB OR SMALL TREE
- DUNE RESTORATION AND PRESERVATION

Wild Olive - Osmanthus americanus

FRUIT ATTRACTS BIRDS

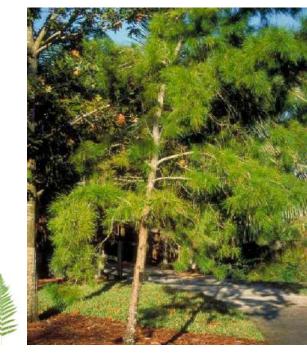
LOW MAINTENANCE

USE AS SCREEN OR HEDGE

DROUGHT AND SALT TOLERANT

SMALL TO MEDIUM NATIVE EVERGREEN TREE





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LEGEND

Sand Pine - Pinus clausa var. immuginata

- NATIVE SCRUBBY PINE, RARELY GROWS STRAIGHT
- 15' 40' IN HEIGHT, SLOW GROWTH RATE
- USED AS SHADE, RESTORATION AND SPECIMEN
- TOLERANT TO DRY SANDY SOILS & SALT, GOOD NEAR ASPHALT PAVING
- ATTRACTIVE TO SQUIRRELS AND OTHER MAMMALS, CONES
- LOW MAINTENANCE



- LOW MAINTENANCE
- DROUGHT AND SALT TOLERANT



Red Bay - Persea borbonia

- SMALL TO MEDIUM NATIVE EVERGREEN TREE
- GROWTH HABIT SIMILAR TO OAK
- FRUIT ATTRACTS BIRDS AND OTHER WILDLIFE



- NATIVE, 12'-20' IN HEIGHT, DECIDUOUS
- BEAUTIFUL TREE IN BLOOM DURING SPRING
- MODERATELY DROUGHT TOLERANT
- LOW MAINTENANCE
- GROWTH



American Beech - Fagus grandiflolia

- GREAT FALL COLOR
- ORNAMENTAL BARK
- MODERATE GROWTH RATE
- LOW TOLERANCE TO SALT SPRAY
- RESISTANT TO BREAKAGE



Sweetbay Magnolia - Magnolia virginiana

- NATIVE , EVERGREEN TO SEMI-EVERGREEN
- VERTICAL COLUMNAR GROWTH, 40' IN HEIGHT RESISTANT TO BREAKAGE
- CREAMY WHITE SCENTED FLOWERS AND SEEDS FOR WILDLIFE, ATTRACTS BIRDS
- LOW TOLERANCE TO SALT SPRAY AND DROUGHT GOOD TO PLANT NEXT TO BUILDINGS
- LOW MAINTENANCE



Winged Elm - Ulmus atala

- LARGE 45'-70', NATIVE , DECIDUOUS
- FAST GROWING RESISTANT TO BREAKAGE
- SHOWY FALL LEAVES
- DROUGHT TOLERANT WELL SUITED FOR STREET TREE
- REQUIRES PROPER PRUNING FIRST FEW YEARS OF GROWTH



White Fringe Tree - Chioanthus virginicus

- SLOW GROWTH RATE
- SHELTER FROM WIND AND AFTERNOON SUN FOR BEST

Note: Plant material images are used for reference purposes only. Not all of the plant material selected for this project is referenced.

= Native Plant

PLANT MATERIAL - TREES

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L107

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MARCH 24, 2023

LANDSCAPE **PLANTING PLAN**

PROJECT STATUS



Beautyberry - Callicarpa americana

- DECIDUOUS, NATIVE, RAPID GROWING
- 3'-8" ARCHING BRANCHES
- LAVENDER FLOWER, FRUIT ATTRACTS BIRDS
- USE TO NATURALIZE AS SCREEN OR SPECIMEN
- BEST IN MASS PLANTINGS WITH PINES
- CUT DEAD BRANCHES IN WINTER
- LOW MAINTENANCE POOR SALT TOLERANCES



Scrub Rosemary - Ceriatiola ericoides

- DUNE RESTORATION
- OLDER PLANTS FRUIT FOR WILDLIFE
- SCRUB PLANT COMMUNITY
- NATIVE EVERGREEN SHRUB 4'-6"
- PLANTS ARE KILLED BY FIRE AND STORM SURGE BUT RESEED
- LOW MAINTENANCE



Yaupon Holly - Ilex vomitoria

- SMALL EVERGREEN TREE OR SMALL SHRUB
- 15'-25' IN HEIGHT
- USED AS SPECIMEN, SCREENS OR BARRIER
- RED BERRIES ATTRACT WILDLIFE FLOWER ATTRACT BEES
- UPRIGHT AND WEEPING VARIETIES
- LOW MAINTENANCE
- DROUGHT AND SALT TOLERANT



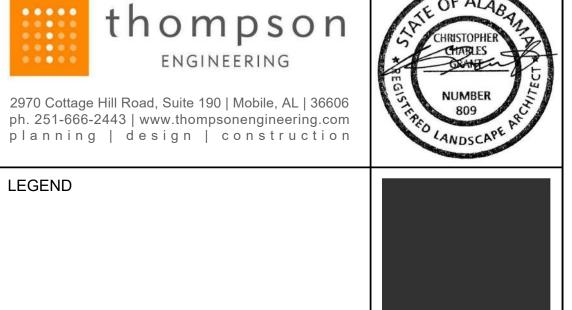
Marsh Elder - Iva frutescens

- DECIDUOUS NATIVE MARITIME 4'-6' SHRUB
- HABITAT IS SALINE GRASSES AND SHRUBS
- FLOWERS JULY-SEPTEMER
- GOOD SALT TOLERANCE
- USE AS LOW HEDGE OR BORDER PLANT IN FULL SUN
- LOW MAINTENANCE



High Bush Blueberry - Vaccinium corymbosum 'Elliott'

- DECIDUOUS NATIVE SHRUB
- 4'-6' IN HEIGHT
- LOW MAINTENANCE WILDLIFE FOOD
- LOW MAINTENANCE
- LIKES WELL-DRAINED SOILS
- WHITE SHOWY FLOWERS IN SPRING



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NATIVE, STURDY PLANT WITH TEXTURAL INTEREST

Saw Palmetto - Serenoa repens

- SLOW GROWTH RATE, 5'-10' IN HEIGHT 3' LONG FRAGRANT FLOWER STALKS IN SPRING
- BLACK BERRIES SOURCE OF FOOD FOR BIRDS AND
- MAMMALS
- PART SUN TO SHADE
- DROUGHT TOLERANT
- LOW MAINTENANCE



Coralbean - Erythrina herbacea

- BRIGHT RED FLOWERS APRIL-JUNE ATTRACTIVE TO **HUMMINGBIRDS**
- FULL SUN TO PART SHADE, BEST USED AS MASS
- PLANTINGS OR SPECIMEN WOODLAND PLANTING FOR NATURAL EFFECT
- 5'-15' IN HEIGHT
- LOW MAINTENANCE
- MODERATE RESISTANCE TO SALT
- DROUGHT TOLERANT
- CUT BACK DEAD TOPS IN WINTER



Woody Goldenrod - Chrysoma pauciflosculoso

UNDERUSED PLANT, FLOWERS ATTRACT POLLINATORS

- DUNE RESTORATION
- NATIVE, EVERGREEN SHRUB 3' IN HEIGHT
- SCRUB PLANT COMMUNITY
- FALL COLOR
- LOW MAINTENANCE



Dwarf Palmetto - Sabal minor

- ADAPTABLE TO MANY SITE CONDITIONS

- FRAGRANT FLOWERS LOW MAINTENANCE



- NATIVE, EVERGREEN SHRUB 2'- 7' IN HEIGHT
- DROUGHT TOLERANT
- LARGE FAN SHAPED LEAVES



- NATIVE, DECIDUOUS SHRUB 6'- 10' IN HEIGHT
- WOODLAND, MASS PLANTING OR SPECIMEN
- SLOW GROWTH, PART SHADE
- SPRING FLOWERS YELLOW ORANGE
- ATTRACTS HUMMINGBIRDS



Groundsel Bush - Baccharis halimifolia

- NATIVE, DECIDUOUS SHRUB 8'- 12' IN HEIGHT
- OFTEN SEEN WITH WAX MYRTLE DROUGHT AND SALT SPRAY TOLERANT
- NESTING FOR BIRDS
- USED AS HEDGE, MASS PLANTINGS AND SPECIMEN

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Not all of the plant material selected for this project is referenced.

- WHITE SHOWY FLOWERS WHEN OTHER PLANTS ARE NOT
- NATIVE, EVERGREEN SHRUB 15'- 20' IN HEIGHT DWARF VARIETY 3'

USED AS HEDGE, MASS PLANTINGS AND SPECIMEN

Wax Myrtle - Myrica cerifera

- SALT SPRAY TOLERANT BLUE FRUIT ATTRACTS BIRDS
- FAST GROWTH RATE VERY TOUGH AND EASY TO GROW SHRUB OR SMALL TREE



Virginia Sweetspire - Itea virginica

- SEMI-EVERGREEN SHRUB, 3'- 4' IN HEIGHT
- MOUNDING FORM WITH DROOPING BRANCHES NICE FALL COLOR
- SHOWY WHITE FLOWERS THAT ATTRACT INSECTS
- FAST GROWTH RATE
- ROOT STRUCTURE HELPS WITH EROSION CONTROL NEEDS WATER DURING TIMES OF DROUGHT



- HERBACEOUS EVERGREEN PERENNIAL, 2' IN HEIGHT
- REQUIRES CONSISTENT MOISTURE
- LEAVES REMAIN GREEN THROUGHOUT THE WINTER
- LOW MAINTENANCE



Florida Flame Azalea - Rhododendron austrinum

- POOR SALT TOLERANCE

LOW MAINTENANCE



- STUNNING WHITE FLOWERS
- GOOD FOR BOGS OR WETLAND AREAS
- SUSCEPTIBLE TO FROST



Butterfly Iris - Dietes grandiflora

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LANDSCAPE PLANTING PLAN

MARCH 24, 2023

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Blue-eyed Grass - Sisyrinchium angustifolium

- NATIVE PERENNIAL IN THE IRIS FAMILY
- 12"-18" IN HEIGHT
- DENSE, CLUMPING FORM
- DELICATE BLUE-VIOLET FLOWERS
- HOST TO BUTTERFLY SPECIES LIKES MOIST, WELL DRAINED SOILS
- LOW MAINTENANCE



Sand Cord Grass - Spartina bakeri

- NATIVE, EVERGREEN, CLUMP FORMING GRASS
- 3'-4' IN HEIGHT
- LIGHT GREEN IN COLOR, TURNING BROWN IN WINTER
- STRIKING WHEN PLANTED AS A MASS
- CAN TOLERATE DRY OR WET CONDITIONS



Open-Flowered Witchgrass - Dichanthelium laxiflorum

- NESTING MATERIALS FOR NATIVE BEES
- USE AS TURF GRASS
- GREEN FORAGE FOR WILDLIFE
- BIRD SEED



Switchgrass - Panicum virgatum

- ATTRACTS BIRDS AND BUTTERFLIES



- NATIVE, 3'-6' TALL PRAIRIE GRASS
- ATTRACTIVE FOLIAGE
- HOST FOR SKIPPER MOTH/BUTTERFLY
- NESTING MATERIAL AND COVER FOR WILDLIFE



Bushy Bluestem - Andropogan glameratus

- NATIVE, FULL SUN
- BEST FOR LARGE SCALE SCAPING
- MOIST, SEMI-MOIST SOIL
- YEAR ROUND COLOR
- HOST FOR BUTTERFLIES WINTER FOOD FOR SONGBIRDS
- NESTING MATERIAL



Inland Salt Grass - Distichilis spicata

- NATIVE, HIGH SALT TOLERANCE
- SCRUB HABITAT, SOIL STABILIZATION
- USED BY SMALL MAMMALS FOR NESTING, COVER AND



Ornamental Love Grass - Eragrostis spectabilis

- NATIVE WILDFLOWER GRASS
 - FOUND IN SANDY SOILS
 - WILDLIFE GRAZE ON GRASS FOR FOOD
 - COVER AND NESTING FOR MARSH ANIMALS LEAVES TURN PURPLE AND FLOWERS ARE WHITE
 - GOOD FOR FLORAL ARRANGEMENTS
 - FINE TEXTURE



Muhly Grass - Muhlenbergia capilaris

- NATIVE, 2'-3' HIGH, LONG LIVED PERENNIAL
- USED AS HEDGE, MASS PLANING AND SPECIMEN
- ATTRACTIVE PINK STALKS
- SALT TOLERANT
- SHELTER FOR BIRDS AND SOURCE OF BIRDSEED



Seacoast Panicum - Panicum amarum

- NATIVE GRASS, USED IN BEACH RESTORATION
- 3' HIGH CLUMPING



Little Bluestem - Schizachyrium scoparium

- ORNAMENTAL BUNCH GRASS
- FINE TEXTURE
- PROSTRATE GROWTH HABIT
- SEEDS ARE ATTRACTIVE TO BIRDS IN WINTER GREEN-BLUE FOLIAGE TURNING RED-BROWN IN
- WINTER



Fakahatchee Grass - Tripsacum dactyloides

- LARGE ACCENT CLUMPING GRASS
- 4'-6' IN HEIGHT
- LARVAL PLANT FOOD FOR BYSSUS SKIPPER BUTTERFLY
- POLLUTION FILTER
- LIKES WET FEET
- GROWS BEST IN FULL SUN



Adagio grass - Miscanthus sinensis

- 3'-6' IN HEIGHT, UPRIGHT CLUMPING GRASS
- PLUMES OF PINK FLOWERS IN LATE SUMMER SILVERY LEAVES, TURNS YELLOW IN FALL
- FOOD AND HABITAT FOR INSECTS, BIRDS, RABBITS
- AND MICE SALT TOLERANT



- CONTROL

Indian grass - Sorghastrum nutans

- 3'-6' IN HEIGHT
- SALT, DROUGHT TOLERANT
- DEEP ROOT STRUCTURE ARE GOOD FOR EROSION
- WARM-SEASON GRASS
- HABITAT FOR PEPPER AND SALT SKIPPER BUTTERFLY

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PLANT MATERIAL - GRASSES

L109

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Maritime Pokeweed - Phytolacco rigida

- PERENNIAL, TOLERATES STANDING WATER
- TOXIC TO HUMANS
- BIRDS EAT FRUIT



Bracken Fern - Pteridium aquilinum

- PREFERS DRY SEMI-SHADED AREA, PERENNIAL 18" HIGH
- SCRUB AREAS, DROUGHT TOLERANT
- NATURAL GARDEN EFFECT



Golden Canna - Canna flaccida

- NATIVE, PERENNIAL, WETLAND PLANT, 4' HIGH
- ADAPTABLE TO DRYER CONDITIONS
- FULL SUN
- YELLOW FLOWERS
- HOST PLANT FOR INSECTS



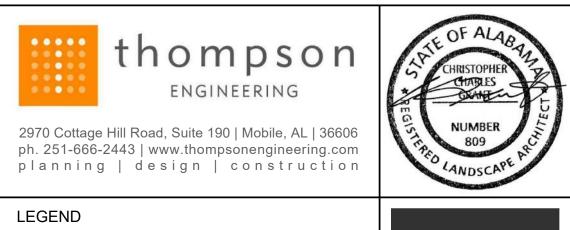
Beach Sunflower - Helianthus debilis

- NATIVE, SPREADING PERENNIAL
- FLOWERS THROUGHOUT YEAR
- ATTRACTS BUTTERFLIES USED FOR BORDERS, GROUNDCOVERS AND MASS
- **PLANTINGS**

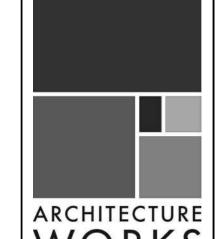


Camphorweed - Heterotheca subzxillaris

- NATIVE, ASTER FAMILY
- FULL SUN, DRY CONDITIONS
- AROMATIC FLOWERS SPRING, SUMMER & FALL



LEGEND



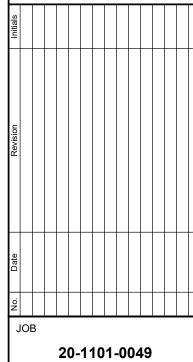
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LANDSCAPE F GULF SHORES, AI COAS GULF OR



PROJECT STATUS **CONFORMANCE SET**

MARCH 24, 2023

LANDSCAPE PLANTING PLAN

L110



- 3"-12" IN HEIGHT, SPREADING
- NATIVE, PERENNIAL GROUNDCOVER
- COVERED IN NECTAR FILLED WHITE FLOWERS FOOD SOURCE FOR BUCKEYE, PHAON CRESCENT,
- AND WHITE PEACOCK BUTTERFLY CATERPILLARS NECTAR SOURCE FOR OTHER POLLINATORS
- HIGH SALT TOLERANCE



- DROUGHT TOLERANT
- EASY TO GROW
- FLOWERS ALL COLORS SANDY SOILS



- SPREADING



Southern Wood Fern - Dryopteris Iudoviciana

- PREFERS WET SHADED AREA
- SEMI-EVERGREEN, 18" HIGH GREAT TEXTURE
- BRIGHT GREEN FOLIAGE COLOR

Note: Plant material images are used for reference purposes only. Not all of the plant material selected for this project is referenced.







- SAND STABILIZERS, CREEPING VINE
- SEEDS ARE IMPORTANT FOR BEACH MICE

Beach Morning Glory - Ipomoea imperati

- Coral Honeysuckle Lonicera sempervirens
- NATIVE VINE
- HIGH CLIMBING
- SEMI-EVERGREEN
- FRAGRANT SHOWY FLOWERS
- RED, TUBULAR TRUMPET SHAPED FLOWERS
- VERY ATTRACTIVE TO HUMMINGBIRDS

Carolina Jessamine - Gelsemium sempervirens

- NATIVE, PERENNIAL, EVERGREEN FOLIAGE
- PROVIDES NECTAR FOR BEES
- FRAGRANT YELLOW TRUMPET FLOWERS
- THE WINTER MONTHS
- GOOD SOURCE OF COVER FOR SONGBIRDS ONE OF THE FIRST FLOWERS TO BLOOM FOLLOWING

SPRING TO FALL WHITE FLOWERS

Note: Plant material images are used for reference purposes only. Not all of the plant material selected for this project is referenced.



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LEGEND

ARCHITECTURE

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ACKAGE

FOR ECOTOURISM & SU LANDSCAPE PA GULF SHORES, ALAB

20-1101-0049

PROJECT STATUS **CONFORMANCE SET**

MARCH 24, 2023

LANDSCAPE PLANTING PLAN

L111

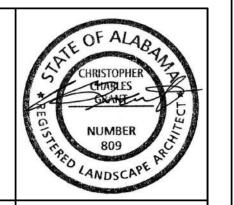
PLANT MATERIAL - VINES

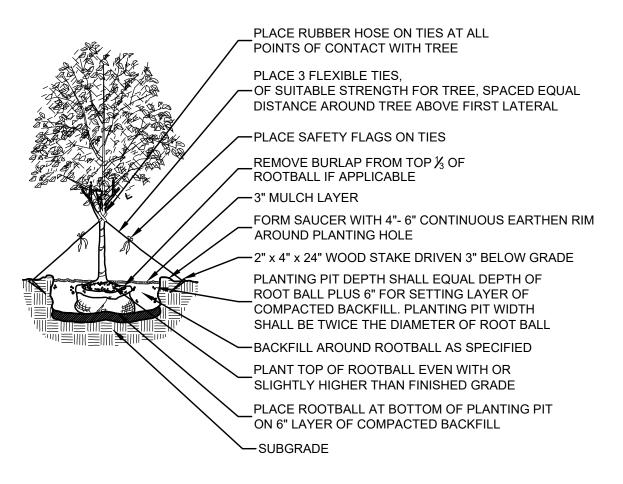
= Native Plant

NTS

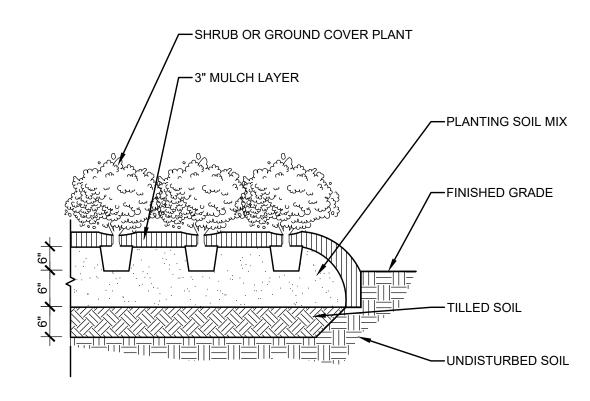


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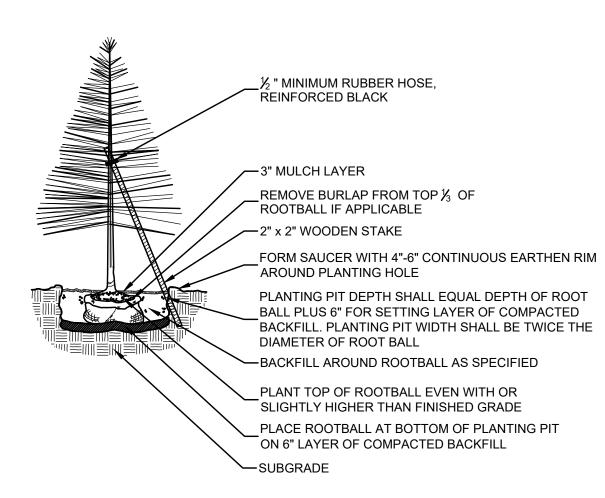




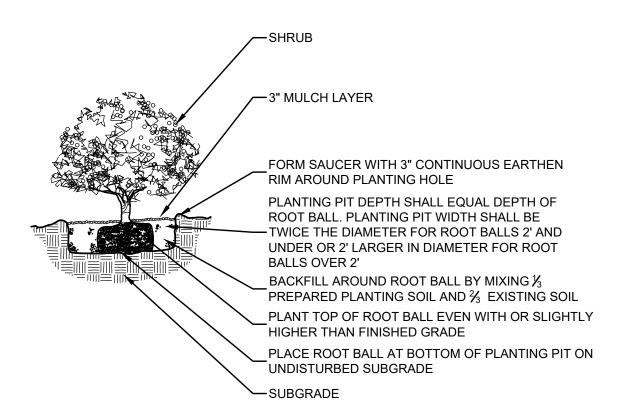
TREE PLANTING DETAIL
SCALE: NTS



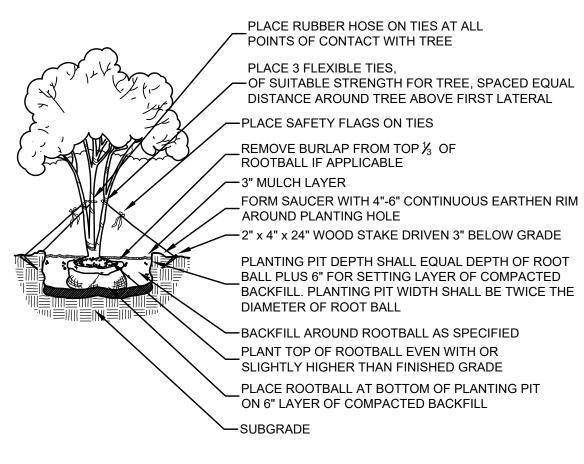
SHRUB/ GROUNDCOVER PLANTING DETAIL
SCALE: NTS



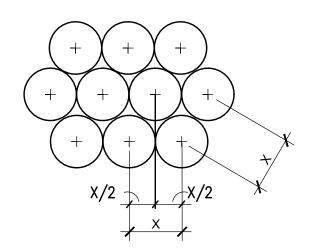
EVERGREEN TREE PLANTING DETAIL



SHRUB PLANTING DETAIL



MULTI-TRUNK TREE PLANTING DETAIL

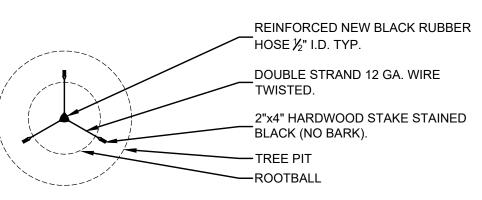


1. SEE PLANTING PLANS FOR SHRUB AND GROUNDCOVER

BED AREAS. 2. ROWS SHALL BE STRAIGHT AND PARALLEL.

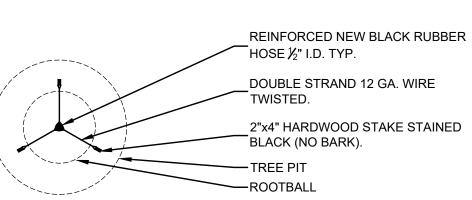
3. QUANTITY AND SPACING SHOWN ON PLANTING PLAN (X)

PLANT SPACING DETAIL



NOTE: CONTRACTOR MAY USE PLASTIC TREE GUYING CHAIN IF APPROVED BY LANDSCAPE ARCHITECT

TREE STAKING PLAN DETAIL



ARCHITECTURE

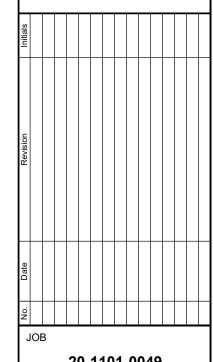
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PROJECT STATUS CONFORMANCE SET

MARCH 24, 2023

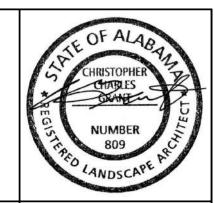
LANDSCAPE **PLANTING DETAILS**

PLANTING DETAILS

L112



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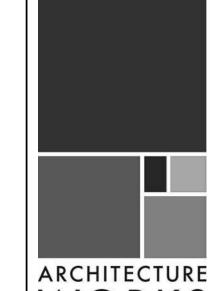


PLANTING SCHEDULE

TREES Drummond Red Maple	BOTANICAL NAME Acer rubrum drummondii	SIZE 3" Cal.	CONTAINER B&B	HEIGHT 8`-10` ht.	SPREAD 3`-4`	QTY 7	<u>REMARKS</u> FULL, STRAIGHT TRUNK,
							CENTRAL LEADER
White Fringetree	Chionanthus virginicus	3" Cal.	15 GAL.	6`-8` ht.	3`-4`	8	FULL, MULTI-TRUNK
Common Persimmon	Diospyros virginiana	3" Cal.	B&B	8`-10` ht.	3`-4`	5	FULL, STRAIGHT TRUNK,
Loquat	Eriobotrya japonica	3" Cal.	B&B	10`-12` ht.	6`-8`	7	CENTRAL LEADER FULL, STRAIGHT TRUNK,
Nagami Kumquat	Fortunella margarita 'Nagami'	3" Cal.	B&B	6`-8` ht.	8`-10`	10	CENTRAL LEADER FULL, STRAIGHT TRUNK,
Possumhaw	llex decidua	3" Cal.	B&B	6`-8` ht.	3`-4`	7	CENTRAL LEADER FULL, STRAIGHT TRUNK,
						, _	CENTRAL LEADER
American Holly	llex opaca	3" Cal.	B&B	10`-12` ht.	3`-4`	/	FULL, STRAIGHT TRUNK
Yaupon Holly	llex vomitoria	3" Cal.	15 GAL. B&B	8`-10` ht.	4`-6` 3`-4`	11 11	FULL STRAIGHT TRUNK CENTRAL
Weeping Yaupon Holly	Ilex vomitoria 'Pendula'	3" Cal.		8`-10` ht.			STRAIGHT TRUNK, CENTRAL LEADER
D.D Blanchard Southern Magnolia	Magnolia grandiflora `D.D. Blanchard`	3" Cal.	B&B	10`-12` ht.	4`-6`	28	FULL TO GROUND, STRAIGHT TRUNK
Sweet Bay	Magnolia virginiana	3" Cal.	B&B	10`-12` ht.	4`-6`	29	FULL, MULTI-TRUNK, LIMBED UP
Redbay	Persea borbonia	3" Cal.	B&B	8`-10` ht.	3`-4`	5	FULL, STRAIGHT TRUNK, CENTRAL LEADER
Sand Pine	Pinus clausa	3" Cal.	15 GAL.	10`-12` ht.	3`-4`	9	STRAIGHT TRUNK, CENTRAL LEADER
Slash Pine	Pinus elliotti	3" Cal.	15 GAL.	10`-12` ht.	3`-4`	9	STRAIGHT TRUNK, CENTRAL
Longleaf Pine	Pinus palustris	3" Cal.	15 GAL.	8`-10` ht.	3`-4`	30	LEADER STRAIGHT TRUNK, CENTRAL
•	·						LEADER
Sand Live Oak	Quercus geminata	3" Cal.	B&B	8`-10` ht.	4`-6`	29	FULL, STRAIGHT TRUNK, CENTRAL LEADER
Myrtle Oak	Quercus myrtifolia	3" Cal.	B&B	8`-10` ht.	4`-6`	3	FULL, STRAIGHT TRUNK, CENTRAL LEADER
Willow Oak	Quercus phellos	3" Cal.	B&B	10`-12` ht.	4`-6`	20	FULL, STRAIGHT TRUNK
Southern Live Oak	Quercus virginiana	3" Cal.	B&B	10`-12` ht.	4`-6`	22	FULL, STRAIGHT TRUNK
Chaste Tree	Vitex agnus-castus	3" Cal.	B&B	10`-12` ht.	3`-4`	9	FULL, MULTI-TRUNK
SHRUBS	BOTANICAL NAME	SIZE	CONTAINER	HEIGHT	SPREAD	<u>QTY</u>	REMARKS
Bushy Bluestem	Andropogon glomeratus	3 GAL	Pot	15"-18" ht.	15"-18"	5	FULL
Butterfly Milkweed	Asclepias tuberosa	3 GAL	Pot	15"-18" ht.	15"-18"	12	FULL
Eastern Baccharis	Baccharis halimifolia	3 GAL	Pot	15"-18" ht.	15"-18"	1	FULL
American Beautyberry	Callicarpa americana	3 GAL	Pot	15"-18" ht.	15"-18"	35	FULL, PURPLE
Sand Heath	Ceratiola ericoides	1 GAL	Pot	12"-18" ht.	12"-18"	13	FULL
Woody Goldenrod	Chrysoma pauciflosculosa	1 GAL	Pot	12"-18" ht.	12"-18"	15	FULL
False Rosemary	Conradina canescens	3 GAL	Pot	12"-16" ht.	12"-18"	69	FULL
Purple Lovegrass	Eragrostis spectabilis	1 GAL	Pot	12"-16" ht.	12"-16"	88	FULL
Coral Tree	Erythrina herbacea	3 GAL	Pot	15"-18" ht.	15"-18"	13	FULL
Oakleaf Hydrangea	Hydrangea quercifolia Ilex cornuta `Carissa`	1 GAL 3 GAL	Pot Pot	12"-18" ht. 15"-18" ht.	12"-18" 15"-18"	30 17	FULL FULL
Carissa Holly Dwarf Yaupon	llex vomitoria `Nana`	3 GAL	Pot	15 - 16 m. 15"-18" ht.	15 - 16 15"-18"	79	FULL
Florida Anise	Illicium floridanum	3 GAL	Pot	15"-18" ht.	15"-18"	27	FULL
Indigo	Indigofera heterantha	3 GAL	Pot	15"-18" ht.	15"-18"	6	FULL
Virginia Sweetspire	Itea virginica	3 GAL	Pot	15"-18" ht.	15"-18"	92	FULL
Marsh Elder	Iva frutescens	3 GAL	Pot	15"-18" ht.	15"-18"	12	FULL
Pink Muhly Grass	Muhlenbergia capillaris	3 GAL	Pot	15"-18" ht.	15"-18"	103	FULL
Wax Myrtle	Myrica cerifera	3 GAL	Pot	15"-18" ht.	15"-18"	57	FULL
Florida Flame Azalea	Rhododendron austrinum	3 GAL	Pot	15"-18" ht.	15"-18"	22	FULL
Wild Azalea	Rhododendron canescens	3 GAL	Pot	15"-18" ht.	15"-18"	36	FULL
Dwarf Rosemary	Rosmarinus officinalis `Prostratus`	3 GAL	Pot	15"-18" ht.	15"-18"	53	FULL
Dwarf Palmetto	Sabal minor	3 GAL	Pot	15"-18" ht.	15"-18"	13	FULL
Little Bluestem	Schizachyrium scoparium	1 GAL	Pot	12"-18" ht.	12"-18"	7	FULL
Saw Palmetto	Serenoa repens	3 GAL	Pot	15"-18" ht.	15"-18"	68	FULL
Narrowleaf Blue-eyed Grass	Sisyrinchium angustifolium	3 GAL	Pot	15"-18" ht.	15"-18"	18	FULL
Fakahatchee Grass	Tripsacum dactyloides Vaccinium arboreum	3 GAL 3 GAL	Pot Pot	15"-18" ht. 15"-18" ht.	15"-18" 15"-18"	29 23	FULL FULL
Farkleberry Elliott Highbush Blueberry	Vaccinium arboreum Vaccinium corymbosum 'Elliott'	3 GAL	Pot	15 - 16 III. 15"-18" ht.	15 - 16 15"-18"	23 38	FULL
Thinleaf Huckleberry	Vaccinium membranaceum	3 GAL	Pot	15"-18" ht.	15"-18"	15	FULL
SHRUB AREAS Fortnight Lily	BOTANICAL NAME Dietes grandiflora	<u>SIZE</u> 1 gal.	CONTAINER Pot	HEIGHT 12"-16" ht.	SPREAD 12"-16"	<u>QTY</u> 110	REMARKS FULL
GROUND COVERS	BOTANICAL NAME	SIZE	CONTAINER				
Camphorweed	Heterotheca subaxillaris	6"	Pot			315	FULL
Lippia	Phyla nodiflora	6"	Pot			241	FULL
American Pokeweed	Phytolacca americana	6"	Pot			21	FULL
Moss Rose	Portulaca grandiflora	6"	Pot			79	FULL

PLANTING NOTES

- 1. All tree, shrub, and bed locations are to be laid out in the field by the Contractor and approved by the landscape architect prior to installation. Give the landscape architect 72 hours notice.
- 2. The contractor shall be responsible in determining quantities that meet the design intent.
- 3. All plant material shall be container grown unless noted otherwise.
- Apply a pre-emergent herbicide to all bed prep areas.
- Mulch shall consist of pine straw as specified on the Drawings. Material shall be uniform in size, color, quality and overall appearance. Pine straw mulch shall be free of material injurious to plant growth. Sources of mulch should be free of weeds and invasive plant parts or seeds. Sawdust, dirt, garbage, or other debris mixed in the mulch is not acceptable. Contractor shall submit two pounds of proposed mulch for inspection by Engineer. All pine straw shall be free of deleterious materials, insect larvae, weed seed, and animal pathogens.
- Remove waste materials, including grass, vegetation, and turf, and legally dispose of it off of Owner's property.
- Totally grub areas to receive beds and/or sod by chemically eradicating emerging vegetation, removing existing vegetation after vegetation is dead, then proceeding with proper bed and sod installation in accordance with the Planting Plan. Remove roots, plants, sods, stones, clay lumps, and other extraneous materials harmful to plant growth.
- Temporary water shall be furnished by the Contractor, at his expense, to meet the needs of this contract. Hoses and other equipment required for watering shall be furnished by this section. Water shall be suitable for irrigation and free of substances harmful to plant life. Temporary above ground irrigation is an acceptable form of watering through the establishment period, but must be removed by the contractor upon acceptance of the plant material following the warranty period. Temporary above ground irrigation lines should be brown in color and covered by pine straw mulch wherever possible.
- 9. Any and all soil mixes must be free of biological containments and weeds.
- 10. Irrigation shall be installed by a licensed Irrigation Contractor.
- 11. If proposed construction shall cause changes in the landscape and/or irrigation plan, a revised plan shall be submitted by the project's landscape architect for re-evaluation prior to the installation of plantings. In no case shall plans be altered unless approved by the Landscape Architect who originally certified the plans. Failure to install landscaping in accordance with the landscape plan approved by the Owner and regulatory agency shall be subject to removal and reinstallation of the plant material at the cost of the landscape contractor.



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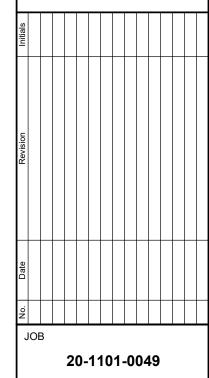
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20-1101-0049

CONFORMANCE SET

MARCH 24, 2023

SHEET NAME

LANDSCAPE
PLANTING DETAILS

L113

No. 1	Common Name	DBH (in.)
2	Pine	8
3 4	Pine Pine	8 10
5	Pine	13
6	Pine	12
7	Pine	8
9	Pine Pine	8 12
10	Live Oak	4
11	Live Oak	3
12	Live Oak Oak Cluster	3 Varies
14	Pine	12
15	Pine	8
16	Pine	11
17	Pine	8
18 19	Pine Pine	11 20
20	Pine	15
21	Pine	8
22	Pine	10
23	Pine Pine	10 12
25	Pine	8
26	Pine	15
27	Pine	15
28	Pine	8
29 30	Pine Oak	15 10
31	Pine	16
32	Pine	8
33	Oak - :	6
34	Pine Live Oak	10 6
35 36	Live Oak	4
37	Live Oak	4
38	Live Oak	3
39	Live Oak	8
40 41	Live Oak Live Oak	10
42	Live Oak	4
43	Pine	12
44	Pine	18
45 46	Live Oak Live Oak	6
47	Live Oak	4
48	Live Oak	6
49	Live Oak	7
50	Live Oak	5 4
51 52	Live Oak Pine	15
53	Pine	12
54	Pine	12
55	Pine	10
56 57	Pine Pine	8 12
58	Pine	15
59	Pine	8
60	Pine	8
61	Pine Pine	15 15
63	Pine	10
64	Pine	15
65	Pine	8
66	Pine	8
67 68	Pine Pine	10 10
69	Pine Pine	8
70	Pine	8
71	Pine	10
72	Pine	8
73 74	Pine Pine	12 15
75	Pine	10
76	Pine	12
77	Pine	9
78 79	Pine	13 13
80	Pine Pine	13
81	?	8
82	?	6
83	?	10
84 85	? Pine	8
86	Pine Pine	8
87	Pine	15
88	Pine	18
89	Pine	13
90	Pine Live Oak	12
91 92	Live Oak Live Oak	3 5
93	Pine	12
33 I	Pine	8
94		4.0
94 95	Pine	12
94 95 96	Pine	12
94 95 96 97	Pine Pine	12 12
94 95 96	Pine	12

No.	Common Name	DBH (in.)
101 102	Pine Pine	14
103	Pine	10
104 105	Pine Pine	10 14
106	Pine	8
107	Pine	15
108 109	Pine Pine	10
110	Pine	10
111	Pine Pine	12
113	Live Oak	4
114 115	Live Oak Pine	3 15
116	Pine	15
117	Pine	14 12
118 119	Pine Magnolia	14
120	Pine	18
121 122	Pine Pine	18
123	Pine	12
124 125	Pine Pine	15 11
126	Pine	8
127 128	Pine Pine	15 8
129	Pine	10
130	Pine	8
131 132	Pine Pine	10 8
133	Pine	12
134 135	Pine Pine	10
136	Pine	15
137 138	Pine Pine	10 12
139	Pine	8
140	Pine	10
141 142	Pine Pine	10
143	Pine	12
144 145	Live Oak Live Oak	5 4
146	Pine	12
147 148	Pine Pine	10
149	Pine	10
150 151	Pine Pine	12 10
152	Pine	10
153	Pine	10
154 155	Live Oak Live Oak	3
156	Pine	15
157 158	Pine Pine	8 15
159	Pine	8
160 161	Pine Pine	8 13
162	Pine	12
163 164	Pine Pine	12 12
165	Live Oak	4
166	Pine	8
167 168	Pine Pine	10
169	Pine	8
170 171	Pine Pine	10
172	Pine	10
173 174	Pine Pine	12 10
174	Pine Pine	10
176	Pine	10
177 178	Pine Pine	8 15
179	Pine	10
180 181	Pine Pine	12 12
182	Pine	14
183 184	Pine Pine	10 8
185	Pine	10
186	Live Oak	4
187 188	Live Oak Live Oak	4 4
189	Live Oak	4
190 191	Pine Pine	10
192	Pine	12
193 194	Oak Pine	5 12
194	Oak Cluster	Varies
196	Pine Oak Chistor	12
197 198	Oak Cluster Oak Cluster	Varies Varies
199	Pine	15

No.	Common Name	DBH (in.)
201	Pine Pine	12 12
203	Live Oak	4
204	Live Oak	4
205 206	Live Oak Pine	6 10
207	Pine	10
208	Pine	10
209	Pine Pine	12 8
211	Pine	10
212	Pine	10
213 214	Pine Pine	12 12
215	Pine	12
216	Pine	12
217 218	Pine Pine	12 12
219	Pine	8
220	Pine	8
221 222	Oak Oak	8
223	Pine	12
224	Pine	12
225	Live Oak	5 4
226 227	Live Oak Live Oak	5
228	Live Oak	4
229	Live Oak	4
230 231	Live Oak Live Oak	6 3
232	Live Oak	5
233	Pine Live Oak	8
234 235	Live Oak Live Oak	14 6
235	Live Oak	5
237	Live Oak	5
238 239	Live Oak Live Oak	5 6
240	Live Oak	4
241	Live Oak	5
242	Live Oak	3 8
243 244	Pine Pine	12
245	Live Oak	3
246	Live Oak	4
247 248	Pine Live Oak	12 5
249	Live Oak	5
250	Pine	8
251 252	Pine Pine	10 10
253	Pine	10
254	Oak	10
255 256	Oak Pine	8 10
257	Pine	10
258	Oak	8
259 260	Pine Pine	8 10
261	Pine	10
262	Pine	10
263 264	Pine Oak	10 8
264 265	Oak Pine	8
266	Pine	8
267	Pine	8
268 269	Pine Oak	8
270	Pine	8
271	Pine	10
272 273	Pine Pine	8 10
274	Live Oak	4
275	Oak Cluster	Varies
276	Pine	8
277 278	Pine Pine	12 20
279	Pine	10
280	Pine	18
281	Pine Live Oak	10
282 283	Live Oak Pine	4 12
284	Live Oak	3
285	Live Oak	3
286 287	Live Oak Live Oak	4
288	Live Oak	4
289	Live Oak	3
290	Live Oak	8
291 292	Pine Pine	12 10
292	Live Oak	5
294	Live Oak	5
295	Live Oak	5
296 297	Live Oak Pine	5 12
298	Pine	12
299	Pine	12
300	Oak Cluster	Varies

No. 301	Common Name Pine	DBH (in.) 10
02	Live Oak	4
303	Live Oak	8
304	Live Oak	8
305	Live Oak	7
306	Live Oak	5
307 308	Oak Cluster	Varies 10
309	Pine Live Oak	5
310	Pine	12
311	Live Oak	6
312	Live Oak	4
313	Live Oak	4
314	Live Oak	5
315	Live Oak	7
316	Live Oak	5
317	Pine	11
318	Pine	12
319	Live Oak	4
320	Live Oak	5
321	Pine	1
322	Live Oak	6 12
323 324	Pine Pine	15
325	Live Oak	5
326 326	Live Oak	5
327	Live Oak	5
328	Pine	12
329	Live Oak	4
330	Live Oak	4
331	Pine	12
332	Pine	12
333	Pine	12
334	Live Oak	6
335	Live Oak	6
336	Pine	10
337	Pine	15
338	Pine	18
339	Live Oak	4
340	Live Oak	4
341	Pine	12
342	Live Oak	4
343 344	Live Oak Live Oak	4
345	Live Oak	4
346	Live Oak	4
347	Live Oak	5
348	Live Oak	4
349	Live Oak	4
350	Pine	12
351	Pine	10
352	Pine	14
353	Live Oak	4
354	Live Oak	6
355	Live Oak	5
356	Pine	14
357	Pine	10
358	Pine	10
359	Pine	12
360	Pine	12
361	Pine	15
362	Pine	15
363	Pine	12
364	Pine	15
365	Pine	18
366	Live Oak	4
367	Live Oak	4
368	Live Oak	4
369	Live Oak	5
370	Pine	10
371	Pine	12
372	Pine	14
373	Pine	12
374 375	Pine Pine	12 14
375 376		
376 377	Pine Pine	10 14
377 378	Live Oak	7
378 379	Pine	12
380	Pine	15
881	Live Oak	5
382	Live Oak	7
383	Live Oak	6
384	Live Oak	4
385	Live Oak	6
386	Pine	10
887	Live Oak	4
388	Live Oak	3
389	Live Oak	3
390	Pine	12
391	Live Oak	8
392	Live Oak	3
393	Live Oak	4
394	Live Oak	5
395	Pine	12
1	Live Oak	5
396	LIVE Oak	
896 897	Live Oak	5
396		5 4 4

No.	Common Name	DBH (in.)
401 402	Pine Pine	12 15
403	Pine	12
404 405	Pine Pine	12 12
405 406	Pine	11
407	Pine	14
408	Live Oak	3
409 410	Live Oak Live Oak	4 5
411	Live Oak	4
412	Live Oak	5
413	Pine	12
414 415	Pine Pine	10 14
416	Pine	18
417	Pine	18
418 419	Pine Pine	16 22
420	Pine	12
421	Pine	18
422	Pine	14
423 424	Pine Pine	10 18
425	Pine	18
426	Pine	18
427	Pine	10
428 429	Pine Live Oak	18 7
430	Pine	8
431	Pine	21
432 433	Pine Pine	15 15
434	Pine	12
435	Pine	12
436	Pine	13
437 438	Pine Pine	10 13
439	Pine	12
440	Pine	13
441 442	Pine Pine	12 15
442 443	Pine	10
444	Pine	15
445	Pine	15
446 447	Pine Pine	10 12
448	Pine	12
449	Pine	14
450	Pine	14
451 452	Pine Pine	12 15
453	Pine	18
454	Pine	12
455 456	Pine Pine	12 15
457	Pine	16
458	Pine	12
459	Pine P:	12
460 461	Pine Pine	18 12
462	Pine	12
463	Pine	12
464 465	Pine Pine	15 18
465 466	Pine Pine	18
467	Pine	18
468	Pine	18
469 470	Pine Pine	15 17
471	Pine	15
472	Pine	20
473	Pine	18
474 475	Pine Pine	10 10
476	Pine	12
477	Pine	20
478 479	Pine Pine	12 12
480	Pine	14
481	Pine	15
482	Pine	18
483 484	Pine Pine	17 13
484 485	Pine	10
486	Pine	10
487	Pine	10
488 489	Pine Pine	18 8
489	Pine	10
491	Pine	10
492	Pine	15
493 494	Pine Pine	18 10
495	Pine	16
496	Pine	13
497	Pine	13
192	Pine	11

498 499 500

Pine

Pine

10

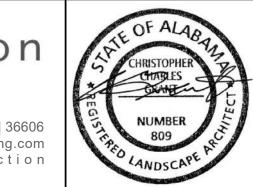
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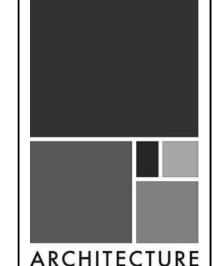
No.	Common Name Pine	DBH (in.) 8
501 502	Pine Pine	10
503	Pine	8
504	Pine	16
505	Pine	10
506 507	Pine Pine	18 12
508	Pine	10
509	Pine	12
510	Pine	10
511	Pine	12
512	Pine	14
513 514	Pine Pine	10
515	Pine	10
516	Pine	15
517	Pine	12
518	Pine	14
519	Pine	12
520 521	Pine Pine	12
522	Live Oak	4
523	Live Oak	4
524	Live Oak	6
525	Pine	10
526	Live Oak	8
527	Live Oak	8
528 529	Live Oak Live Oak	12
530	Pine	12
531	Oak	9
532	Oak	7
533	Live Oak	8
534	Live Oak	12
535	Live Oak	6
536 537	Live Oak Live Oak	12 8
537	Live Oak	6
539	Live Oak	4
540	Live Oak	8
541	Live Oak	6
542	Live Oak	6
543	Live Oak	6
544	Live Oak	5
545 546	Live Oak Live Oak	8
547	Live Oak	6
548	Live Oak	8
549	Pine	10
550	Pine	10
551	Pine	12
552	Pine	10
553 554	Live Oak Pine	8 12
555	Pine	13
556	Pine	13
557	Pine	12
558	Pine	10
559	Pine	12
560 561	Pine Pine	13 15
562	Pine	10
563	Pine	10
564	Pine	10
565	Live Oak	4
566	Live Oak	5
567	Pine Live Oak	15
568 569	Live Oak Live Oak	8
570	Live Oak	8
571	Live Oak	6
572	Oak Cluster	Varies
573	Pine	8
574	Live Oak	3
575 576	Live Oak Live Oak	4
577	Live Oak	5
578	Live Oak	,
579	Live Oak	5
580	Pine	14
581	Pine	12
582 583	Pine Pine	13
583	Live Oak	4
585	Live Oak	5
586	Live Oak	4
587	Live Oak	4
588	Live Oak	4
589	Live Oak	4
590	Live Oak	4
591 592	Live Oak Live Oak	6 4
592	Live Oak	6
594	Live Oak	5
595	Live Oak	4
	Live Oak	3
596		
597	Live Oak	4
	Live Oak Oak Pine	5 10

No.	Common Name	DBH (in.)
601	Pine	18
602	Live Oak	9
603	Live Oak	6
604	Live Oak	6
605	Live Oak	8
606	Live Oak	12
607	Pine	10
608	Pine	10
609	Pine	11
610	Pine	14
611	Pine	11
612	Pine	12
613	Pine	15
614	Pine	12
615	Live Oak	6
616	Pine	14
617	Live Oak	7
618	Post Oak	5
619	Post Oak	6
620	Live Oak	5
621	Live Oak	5
622	Live Oak	5
623	Live Oak	4
624	Live Oak	4
625	Live Oak	3
626	Live Oak	3
627	Pine	10
628	Pine	9
629	Pine	9
630	Pine	14
631	Oak Cluster	Varies
632	Pine	10
633	Pine	12
634	Pine	8
635	Pine	15
636	Oak	10
637	Oak	10
638	Pine	15
639	Pine	8
640	Pine	14
641	Pine	14
642	Live Oak	6
643	Live Oak	6
644	Live Oak	6
CAE	Oak	12
645	Oak	
646	Oak	10



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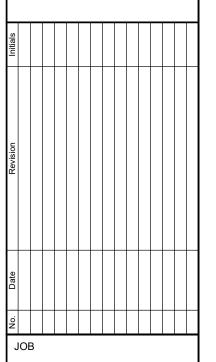
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FOR ECOTOURISM & SUSTAINABILITY LANDSCAPE PACKAGE GULF SHORES, ALABAMA GULF



20-1101-0049

CONFORMANCE SET

MARCH 24, 2023

LANDSCAPE TREE ORDINANCE CALCS

No. 2	Common Name Pine	DBH (in.)
3	Pine	8
5	Pine Pine	10
6	Pine	12
7	Pine	8
8	Pine	8
9 10	Pine Live Oak	12
11	Live Oak	3
12	Live Oak	3
14	Pine	12
15	Pine	8
16 17	Pine Pine	11 8
18	Pine	11
19	Pine	20
20	Pine	15
22 29	Pine Pine	10 15
31	Pine	16
32	Pine	8
34	Pine	10
35	Live Oak	6
36 37	Live Oak Live Oak	4 4
38	Live Oak	3
39	Live Oak	4
40	Live Oak	8
41	Live Oak	10
42 43	Live Oak Pine	12
46	Live Oak	6
47	Live Oak	4
48	Live Oak	6
49 50	Live Oak Live Oak	7 5
122	Pine	12
138	Pine	12
140	Pine	10
141	Pine	8
142 174	Pine Pine	10
175	Pine	12
176	Pine	10
177	Pine	8
178	Pine	15
192 193	Pine Oak	12 5
194	Pine	12
196	Pine	12
199	Pine	15
200	Live Oak Pine	6 12
202	Pine	12
203	Live Oak	4
204	Live Oak	4
205	Live Oak Pine	10
208	Pine	10
218	Pine	12
219	Pine	8
220	Pine	8
221 223	Oak Pine	8 12
224	Pine	12
225	Live Oak	5
226	Live Oak	4
227	Live Oak Live Oak	5 4
229	Live Oak	4
230	Live Oak	6
231	Live Oak	3
232	Live Oak	5
235	Live Oak Live Oak	<u>6</u> 5
237	Live Oak	5
238	Live Oak	5
239	Live Oak	6
240	Live Oak	4 5
241	Live Oak Live Oak	5 3
243	Pine	8
244	Pine	12
245	Live Oak	3
246	Live Oak	4
247 248	Pine Live Oak	12 5
249	Live Oak	5
250	Pine	8
252	Pine	10
253	Pine	10
258 259	Oak Pine	8
378	Live Oak	7
519	Pine	12

520 554

555

Pine

Pine

Pine

Pine

12

12

13

13

No.	Common Name	DBH (in.)
557	Pine	12
561	Pine	15
562	Pine	10
573	Pine	8
574	Live Oak	3
575	Live Oak	3
576	Live Oak	4
577	Live Oak	5
578	Live Oak	?
579	Live Oak	5
580	Pine	14
628	Pine	9
629	Pine	9
630	Pine	14
632	Pine	10
600		1.0

CITY OF GULF SHORES LANDSCAPE REQUIREMENTS

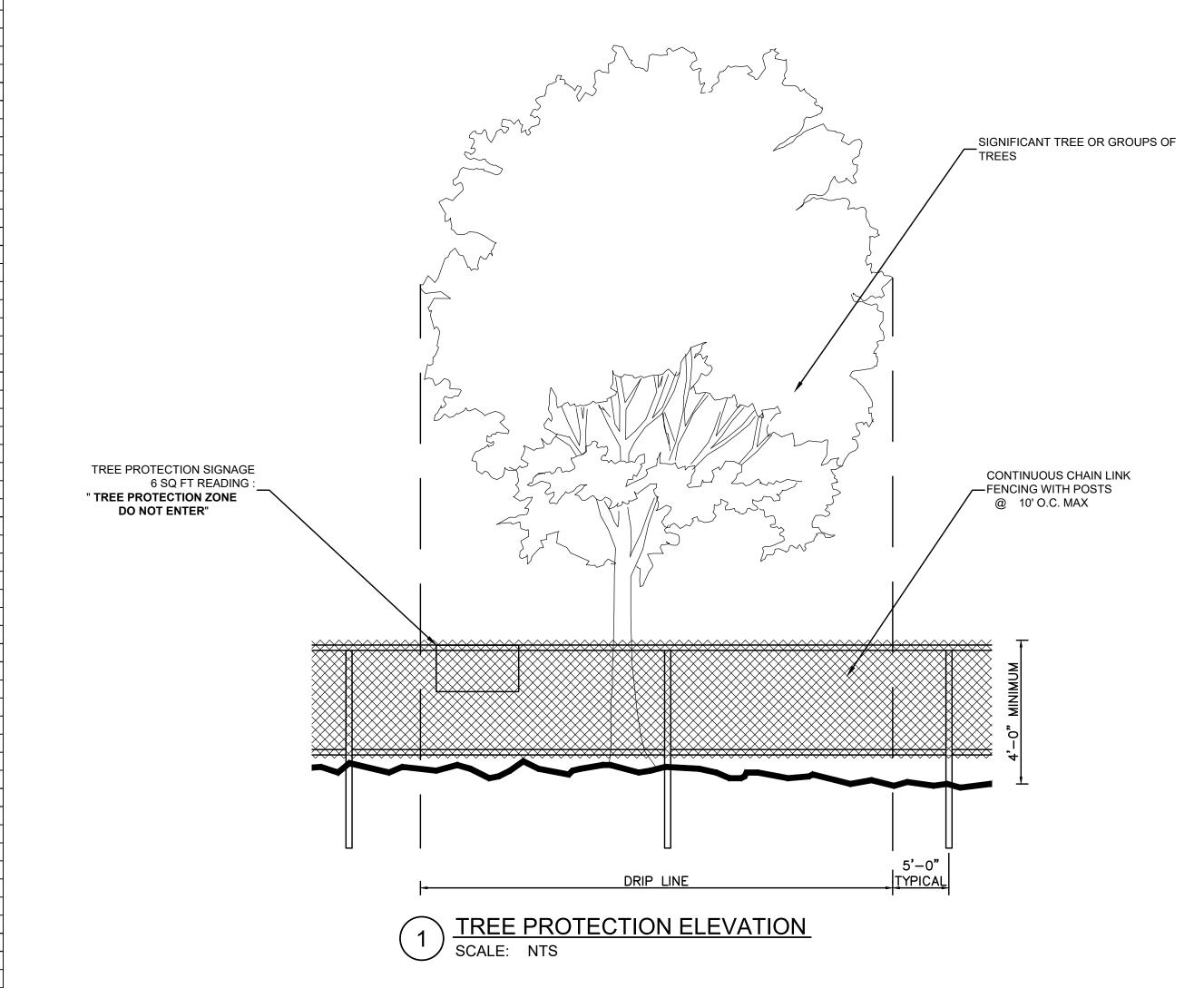
TREE REPLACEMENT CALCULATIONS

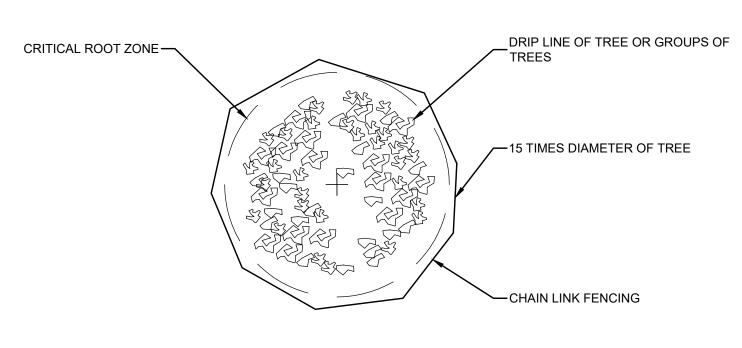
SIGNATURE

DESCRIPTION	QTY.	DBH (in.)
Total Tree Surveyed	647	6,200
Total Trees Removed	97	793
Total Heritage Trees Removed (> 30")	0	0
Total Protected Trees Removed (> 10" or Live Oak/Sand Live Oak > 6")	11	75
Total Trees Preserved (Surveyed Area)	550	5,407
Replacement Trees Provided (@ 3" cal.)	265	795

DATE

TREE PROTECTION DETAILS



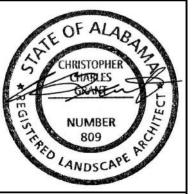


TREE PROTECTION PLAN SCALE: NTS

TREE PROTECTION NOTES

- All trees shown on this plan to be retained shall be protected during all phases of demolition / construction with temporary fencing. It shall be the General Contractors responsibility to coordinate with the landscape contractor.
- Tree protection fences shall be installed prior to the commencement of any site preparation work (clearing, grubbing or grading). Clearing within tree protection areas shall be done by hand.
- Fences shall completely surround tree or clusters of trees; shall be located 5' from the outermost limits of the tree branches (drip line); and shall be maintained throughout the construction phase of the project by General Contractor in order to prevent the following:
 - A. Soil Compaction in the root zone area resulting from vehicular traffic or storage of equipment or materials.
 - B. Root zone disturbances due to grade changes (greater than 6 inches cut or fill) or trenching.
 - C. Wounds to exposed roots, trunk or limbs by mechanical equipment.
- D. Other activities detrimental to trees such as chemical storage, cement truck cleaning and fires.
- Exceptions to installing fences 5' from tree drip lines may be permitted in the following cases:
- A. Where permeable paving is to be installed. Erect the fence at the outer limits of the permeable paving area.
- B. Where trees are close to the proposed building: Erect the fence no closer than 6 feet to the building. Where any of the above exceptions result in a fence being closer than 4 feet to a tree trunk. Protect the trunk with strapped-on planking to a height of 8 feet (or to the limits of lower branches: in addition to the reduced fencing provided.
- Where any of the above exceptions result in areas of unprotected root zones (under drip lines). Those areas should be covered with 4 inches of organic mulch to minimize soil compaction.
- All grading within protected root zone areas shall be done by hand or with small equipment to minimize root damage. Prior to grading, relocated protective fencing to 2 feet behind the grade change area. No root over 1 inch diameter will be cut.
- Any roots exposed by construction activity shall be pruned with a clean cut flush with the soil backfill root areas with good quality top soil immediately. If exposed areas are not backfilled immediately. if exposed root areas are not backfilled within 2 days, cover them with organic material in a manner which reduces soil temperature and minimizes water loss due to evaporation.
- Prior to excavation or grade cutting within tree drop lines, make a clean cut between the disturbed and undisturbed root zones with a rock saw or similar equipment to minimize damage to remaining roots.
- Trees most heavily impacted by construction activities should be watered deeply once a week during periods of hot, dry weather. tree crowns should be sprayed with water periodically to reduce dust accumulation on the leaves.
- 11. No conduit or utilities can be installed within tree protection areas. Any trenching required for the installation of landscape irrigation shall be placed as far from the tree trunks as possible.
- 12. No landscape topsoil dressing greater than 4 inches shall be permitted within the drip line of trees. No soil is permitted on the root flare of any tree. Grading limited to 3 inch cut.
- 13. Pruning to provide clearance for structures, vehicular traffic and equipment shall take place before construction begins.
- 14. All pruning must be done in according to recognized, approved standards of the industry (Reference the National Arborist Association Pruning Standards for Shade Trees) by a certified Arborist and shall be approved and supervised by Owners Representative (City of Gulf Shores) or Project Urban Forester.
- Damage to trees or any natural resource due to Contractor's negligence during the construction phase shall be appraised by the Owners Representative (City of Gulf Shores) and ordered repaired, replaced or compensated.





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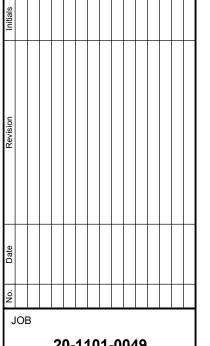
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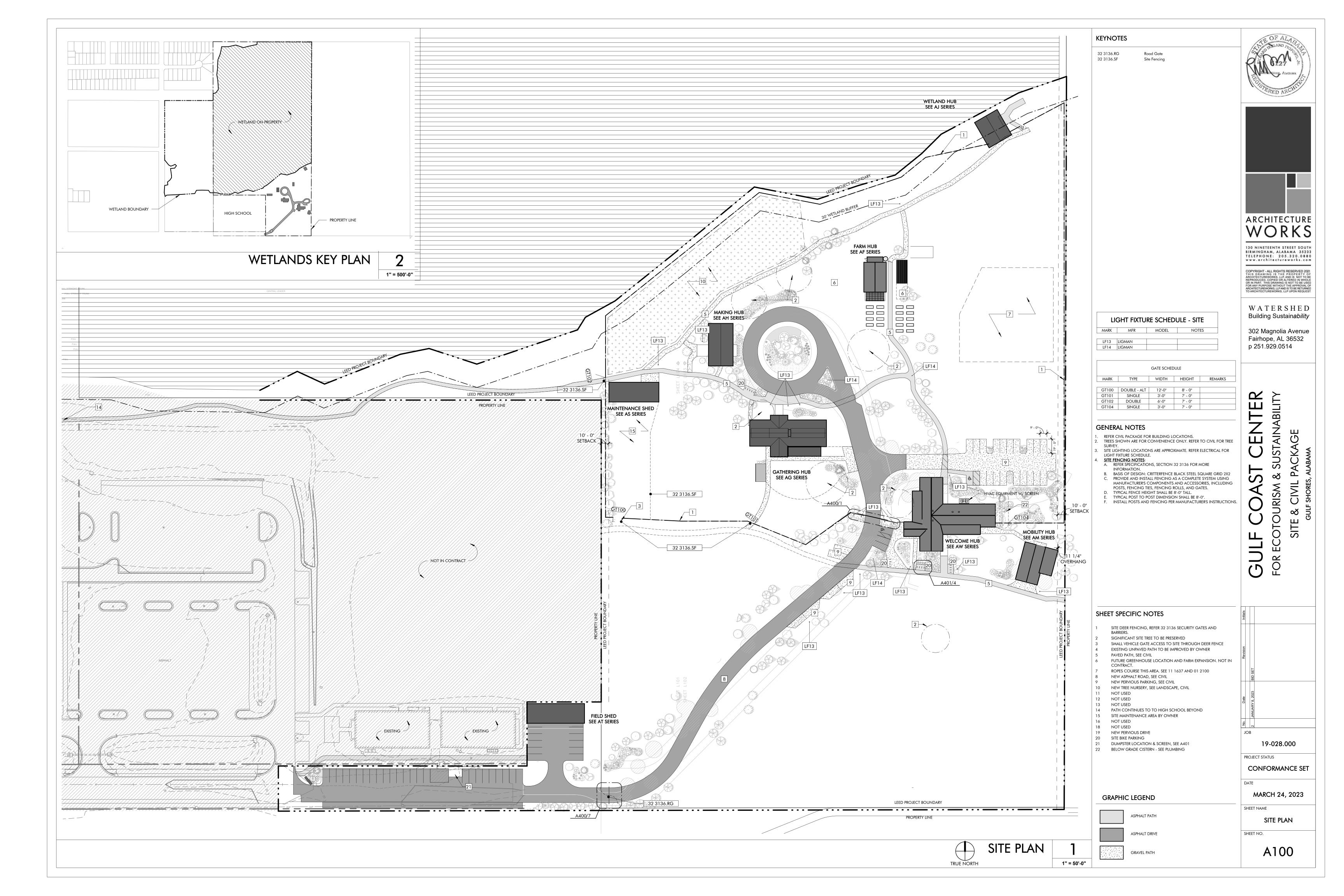
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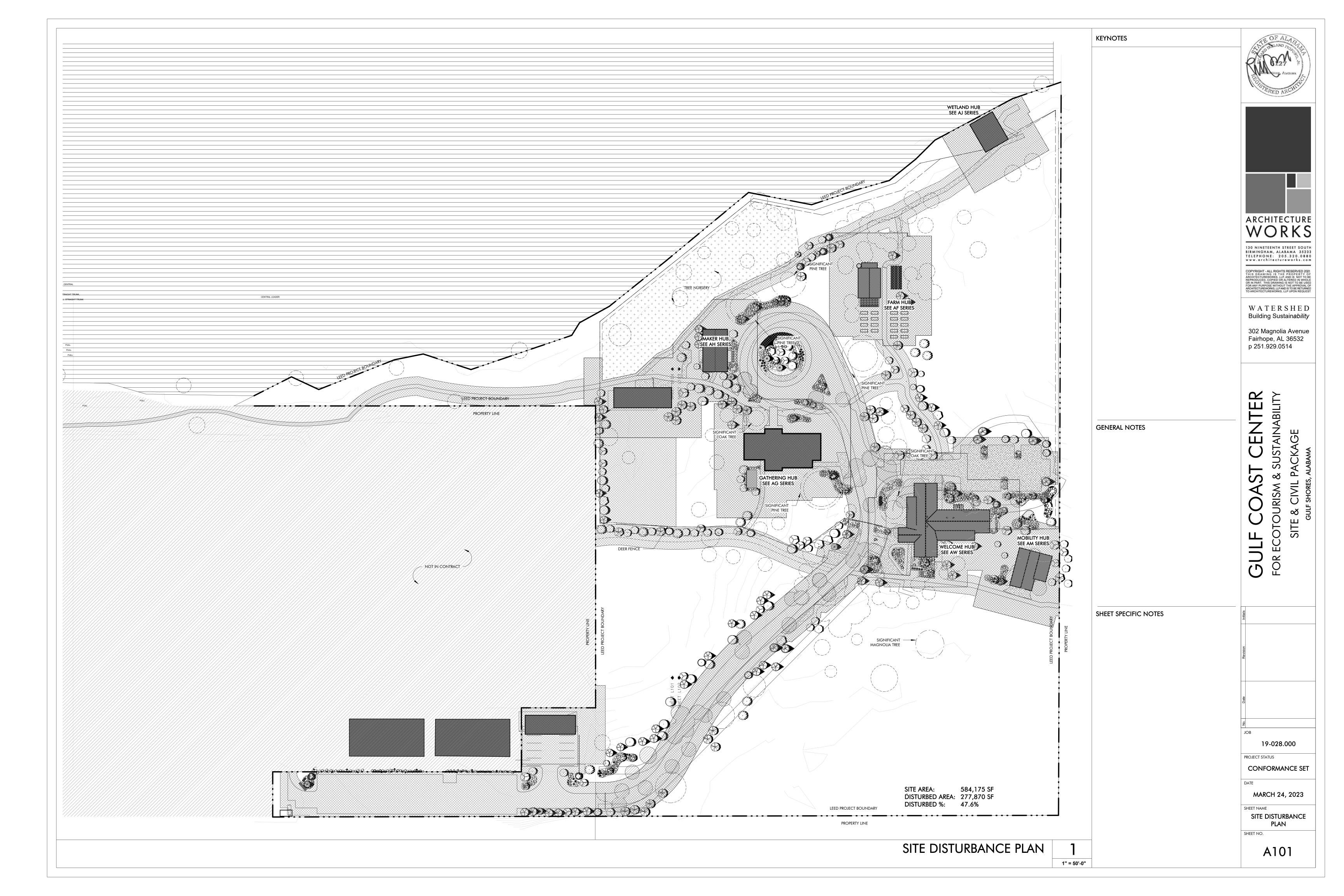
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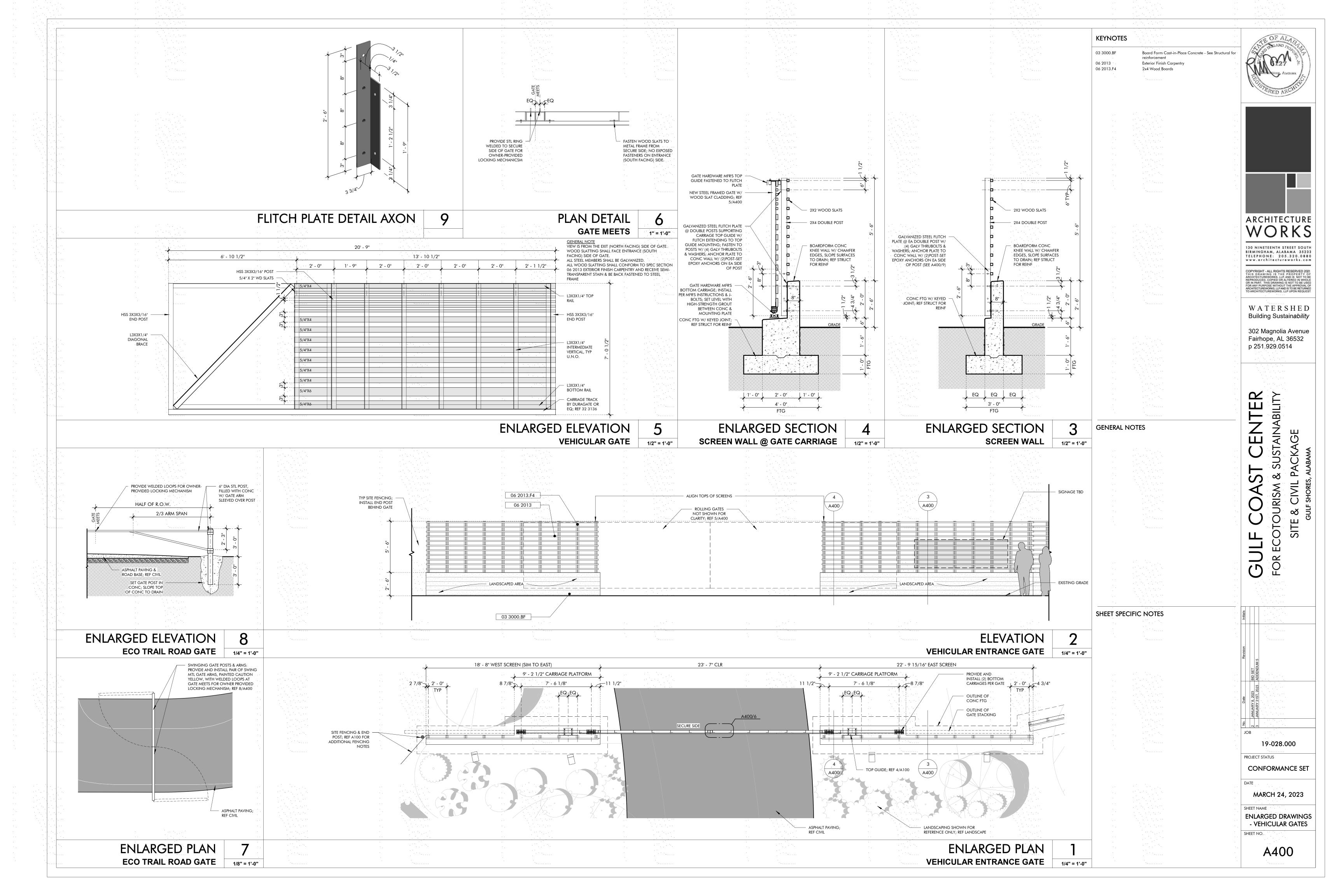
LANDSCAPE TREE ORDINANCE CALCS

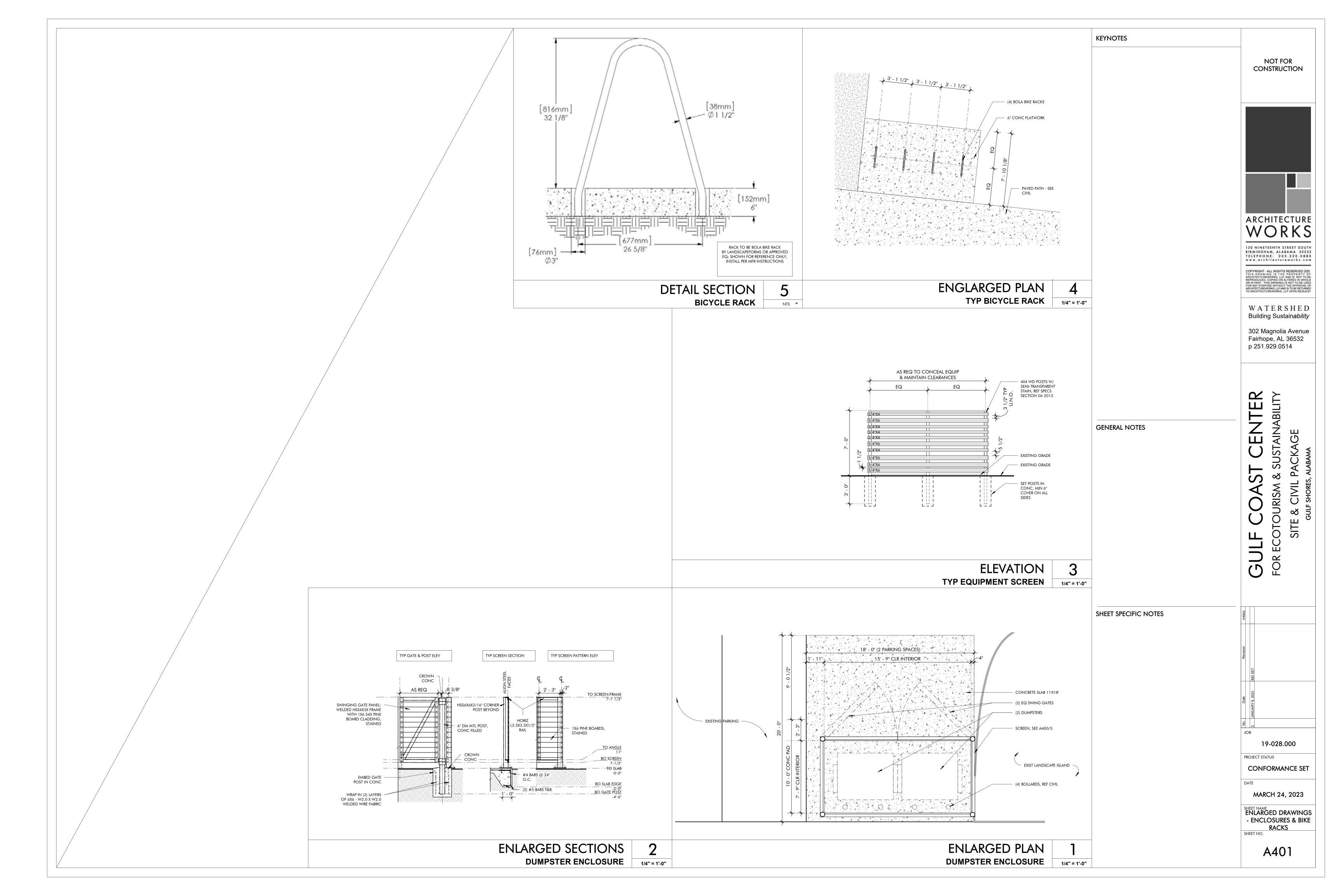
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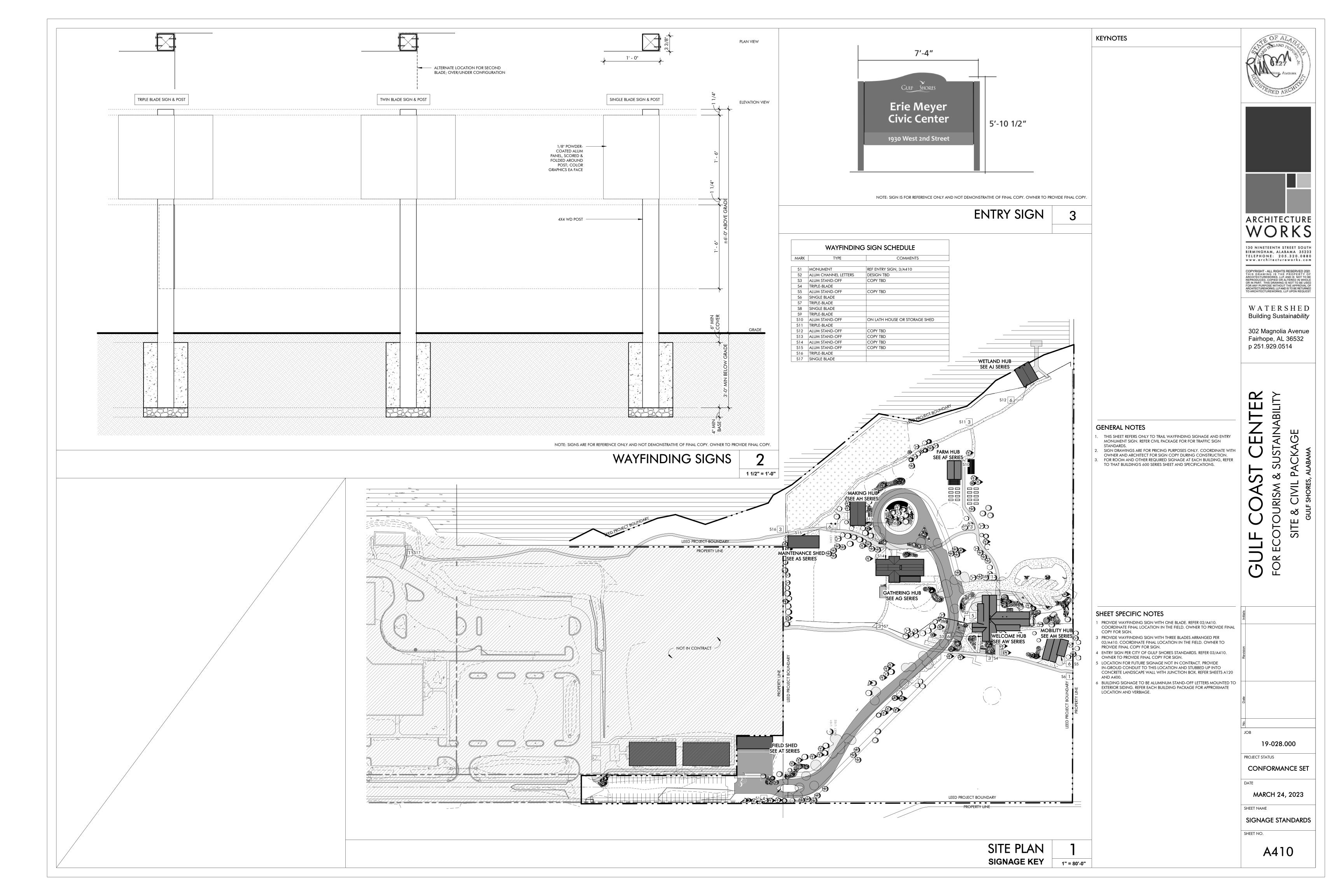












LED, FLUORESCENT, HID, RECESSED, PENDANT OR SURFACE CELLING WALL MOUNTED FURNITURE FEED POWER CONNECTION POWER POLE WITH POWER & DATA FURNITURE FEED POWER CONNECTIONS POWER POLE WITH POWER & DATA FURNITURE FEED POWER CONNECTIONS POWER POLE WITH POWER & DATA FURNITURE FEED POWER CONNECTIONS POWER POLE WITH POWER & DATA FURNITURE FEED POWER LANDSCAPING THEE ACCENT LIGHT, FACADE LIGHT LANDSCAPING THEE ACCENT LIGHT, FACADE LIGHT TRACK HEADS) PRAWINGS OR OWNERS VENDOR DRAWINGS OF ONLOW SULVIAGE RECURRENTS), OF FURNITURE FEED CONNECTION, REFER TO POKE- THRU DETAILS MULTI-SERVICE POK					ELEC	TRICAL SYMBOL LEGEND				
March Marc		BASIC MA	ATERIALS		FIRE	ALARM / DETECTION SYSTEM		ABBREVIATIONS		ABBREVIATIONS (CONT.)
FIXTURE GROUND BUS BAR, COPPER EXIT LIGHT, LED, CEILING OR PENDANT MOUNTED; DIRECTIONAL	TR TAMPER RESISTAN TV RECEPTACLE MOUNTED HEIGHT WIN ARCHITI U DUPLEX RECEPTACE WP WEATHERPROOF Sa SINGLE POLE SWITCH SA SINGLE POLE SWITCH SK SINGLE POLE SWITCH SK SINGLE POLE SWITCH SWINGLE POLE SWINGLE	DESCRIPTION NT INTED ADJACENT TO TV OUTLET, COORDINATE FECT CLE WITH (2) USB PORTS TCH (SUBSCRIPT INDICATES ITEM CONTROLLED) CH SWITCH ITCH W'S MIN. WARNING FLASH UAL TECHNOLOGY OCCUPANCY SENSOR SWITCH, UAL TECHNOLOGY OCCUPANCY SENSOR SWITCH UAL TECHNOLOGY OCCUPANCY SENSOR SWITCH UAL TECHNOLOGY DIMMING/OCCUPANCY SENSOR ITCH ERRIDE SWITCH ERRIDE SWITCH WITH DIMMING WITCH LINE VOLTAGE UAL TECHNOLOGY OCCUPANCY SENSOR R CEILING MOUNTED R WALL MOUNTED INTED ON ROOF FACING NORTH MARKS INDICATED ON ANY DEVICE ICIC CONNECTED TO EMERGENCY CIRCUIT RECEPTACLE; TYPICAL FOR ANY DEVICE IN CLE	SYMBOL MH PB HH T ATS 30AR 3R MCP RATING AMPERE RATING	DESCRIPTION MANHOLE PULLEOX HANDHOLE TRANSFORMER AUTOMATIC TRANSFER SWITCH —NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED NON-FUSED DISCONNECT SWITCH, RATING AS NOTED NE - NON-FUSED AR = AMPERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE —NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED FUSED DISCONNECT —AS = MERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE —AF = AMPERE RATING OF SWITCH 4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE —FO FOLES —NEMA RATING; NEMA 1 UNLESS OTHERWISE NOTED COMBINATION MAGNETIC MOTOR STARTER, SIZE AS NOTED, 3-POLE UNLESS OTHERWISE NOTED —4X SS = NEMA 4X STAINLESS STEEL ENCLOSURE —NEMA STARTER SIZE SWITCHBOARD/ SWITCHGEAR/ DISTRIBUTION PANEL BRANCH CIRCUIT PANELBOARD, OVER 240 VOLTS, SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, FLUSH MOUNTED BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, FLUSH MOUNTED BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD, UNDER 240 VOLTS, FLUSH MOUNTED CONDUIT TORNEBUD OUT OR UP CONDUIT TORNING UP CONDUIT TURNING DOWN CONDUIT STUBBED OUT OR UP CONDUIT TORNING UP CONDUIT STUBBED OUT OR UP CONDUIT SEAL-OFF FITTING GROUND OR GROUND ROD AS NOTED EXISTING TO BE REMOVED (HEAVY, DASHED LINE) EXISTING TO BE REMOVED (HEAVY, DASHED LINE) EXISTING TO REMAIN (LIGHT, SOLID LINE) LICHTING LED OR FLUORESCENT SIXTURE, RECESSED, PENDANT OR SURFACE CIRCUIT CHOWER CASE LETTER INDICATES CONTROLLING SWITCH —CIRCUIT MIMBER —CIRCUIT MIMBER —CIRCUIT MIMBER LED OR FLUORESCENT FIXTURE RECESSED, PENDANT OR SURFACE CEILING LED, FLUORESCENT FIXTURE, WALL MOUNTED LED, FLUORESCENT, HID, RELES S	FIRE SYMPOLY LEGACY E SYMPOLY LEGACY E S S S S S F F S S S S S S S S S S S S	ALARM / DETECTION SYSTEM DESCRIPTION MANUAL PULL STATION CEILING SMOKE DETECTOR, PHOTOELECTRIC TYPE UNLESS OTHERWISE NOTED E = ELEVATOR WITH RECALL CONTACTS 1 = IONIZATION DUCT SMOKE DETECTOR R = RETURN S = SUPPLY BEAM SMOKE DETECTOR BR OR R = BEAM DETECTOR RECEIVER BT OR T = BEAM DETECTOR TRANSMITTER HEAT DETECTOR 135°F FIXED TEMPERATURE, UNLESS OTHERWISE NOTED, CEILING MOUNTED SUPERVISED ADDRESSABLE FIRE ALARM CONTROL RELAY DUCT SMOKE DETECTOR REMOTE TEST SWITCH WITH INDICATING LAMP, WALL MOUNTED AT 48" AFF, UNLESS OTHERWISE NOTED COMBINATION SPEAKER/STROBE, WALL MOUNTED, 75CD UNLESS OTHERWISE NOTED CD = CANDELA RATING HORN ONLY, WALL MOUNTED STROBE, CEILING MOUNTED, 75 CD UNLESS OTHERWISE NOTED CD = CANDELA RATING COMBINATION SPEAKER/STROBE, CEILING MOUNTED, 75CD UNLESS OTHERWISE NOTED CD = CANDELA RATING SPEAKER ONLY, CEILING MOUNTED STROBE, WALL MOU	AC ABV CLG ABV CLG ABV CLG ABV CLG AFF AFGU AIC AMPSI A ATS X G BIAS S RR BIAS BRKR BI	AIR CONDITIONING ALTERNATING CURRENT ABOVE CEILING AMERICANS WITH DISABILITIES ACT AMPERE FRAME ABOVE FINISHED GRADE AIR HANDLING UNIT AMPERE INTERRUPTING CAPACITY ALUMINUM AMPERE INTERRUPTING CAPACITY ALUMINUM AMPERE AMERICAN NATIONAL STANDARDS INSTITUTE AMERICAN STANDARDS ASSOCIATION AMPERE TRIP AUTOMATIC TRANSFER SWITCH AUXILIARY AMERICAN WIRE GUAGE BARE COPPER BASIC IMPULSE LEVEL BUILDING AUTOMATION SYSTEM BUILDING AUTOMATION SYSTEM BUILDING AUTOMATION SYSTEM CONDUIT OR RACEWAY CABINET CIRCUIT CIRCUIT CIRCUIT BREAKER CERTIFIED BALLAST MANUFACTURERS CABLE TELEVISION CLOSED CIRCUIT TELEVISION CLOSED CIRCUIT TELEVISION CLOSED CIRCUIT TELEVISION CLOSED CIRCUIT TREED SINGUE CONDUCTOR CONNECTION CENTRAL PROCESSING UNIT CATHODE RAY TERMINAL (VIDEO DISPLAY TERMINAL) CURRENT TRANSFORMER COPPER COLD WATER DIRECT CURRENT DIRECT DIGITAL CONTROL DEGREE DEMAND FACTOR DISCONNECT DISCONNECT DISCONNECT TOR DISCONNECT SWITCH DRAW OUT DOWN DOUBLE POLE SINGLE THROW ELECTRICALLY OPERATED END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRICALLY OPERATED END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRICALLY OPERATED END OF LINE ENGINEER OF RECORD EXISTING TO REMAIN ELECTRICALLY OPERATED FAN COLI UNIT FULL LOAD AMPERES FACTORY MUTUAL FAN POWERED UNIT FEET GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT ALRAM GROUND FAULT ALRAM GROUND FAULT ALRAM GROUND FAULT ALRAM GROUND FAULT CIRCUIT INTERRUPTER GROUND FAULT RELAY GROUND HORSEPOWER HAND-OFF-AUTOMATIC HORZONTAL INTERRACIAN ANDINICIATOR CODE INTERCOM INTENSIVE CARE UNIT	IES IMC IN IPCEA IT JB OR J-BOX KCMIL KV KVA KWH LBS LED LP LT GIG LSIA MCB LP LT LTG GIS LSIA MCB MCC MIN MLO MSB MTG MIN MLO MSB MTG MIN MLO MOSH MTG MIN MLO MOSH MTG MTS XVA N NC NEMA N N NC NEMA N NC NEMA NIC NF NL NO OL OSH P PF PIVL PREC, REAS, RPM RTCA SD CS/N D SPKST SS STD SWBGR TELD TYP UGON LILL V ARV VVF P PRI PT PVC PWC REF RGLA SPKS SST SWB SWGR TTTC TYP UGON LILL V ARV VVF P PRI PT PVC PWC REF RGLA SPKS SST SWB SWGR TTTC TYP UGON LILL V ARV VVF P PRI PT PVC PWC REF RGLA SD CS/N SPKST SS STD SWBGR TTTC TYP UGON LILL V ARV VVF P PRI PT PVC PWC REF RGLA STD SWBGR TTTC TYP UGON LILL V ARV VVF P PRI PT PVC PWC REF RGLA SD SWGR TTTC TYP UGON LILL V ARV VVF P PRI PT PVC PWC REF RGLA SD SWGR TTTC TYP UGON LILL V ARV VVF P PRI PT PVC PWC REF RGLA SD SWGR TTTC TYP UGON LILL V ARV VVF P PRI PT PVC PWC REF RGLA SD SWGR TTTC TYP UGON LILL V ARV VVF P PRI PT PVC PWC REF RGLA SD SWGR TTTC TYP UGON LILL V ARV VVF P PRI PT PVC PWC REF RGLA SD SWGR TTTC TYP UGON LILL V ARV VVF P PRI PT PVC PWC REF RGLA SD SWGR TTTC TYP UGON LILL V ARV VVF P PRI PT PVC PWC REF RGLA SD SWGR TTTC TYP UGON LILL V ARV VVF P PRI PT PVC PWC REF RGLA SD SWGR TTTC TYP UGON LILL V ARV VVF P PRI PT PVC PWC PWC PWC PWC PWC PWC PWC PWC PWC PW	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEER ILLUMINATING ENGINEERING SOCIETY INTERMEDIATE METAL CONDUIT INCHES INSULATED POWER CABLE ENGINEERS ASSOCIATION INSTANTANEOUS TRIP JUNCTION BOX ONE THOUSAND CIRCULAR MILS KILOVOLT KILOVOLT MERES KILOWATT KILOWATT HOURS POUNDS LIGHT EMITTING DIODE LIGHTINING PROTECTION LIGHT LIGHTING LONG TIME, SHORT TIME, INSTANTANEOUS, GROUND LONG TIME, SHORT TIME, INSTANTANEOUS, ALARM LONG TIME, SHORT TIME, INSTANTANEOUS, ALAR
	VENDOR DRAWING: SPECIAL PURPOSE JUNCTION BOX WAI JUNCTION BOX MOD WALL MOUNTED FU POWER POLE WITH CONNECTIONS PP POWER POLE WITH MULTI-SERVICE PO RECEPTACLES AND DRAWINGS OR OWN REQUIREMENTS), O THRU DETAILS MULTI-SERVICE RAI UNLESS OTHERWIS C CLOCK RECEPTACL GROUND BUS BAR, SPD SURGE PROTECTIV	FER TO TECHNOLOGY DRAWINGS OR OWNER'S GS FOR LOW VOLTAGE REQUIREMENTS) E RECEPTACLE, NEMA CONFIGURATION AS NOTED ALL MOUNTED DUNTED IN OR ABOVE CEILING OR IN STRUCTURE URNITURE FEED POWER CONNECTION H POWER & DATA FURNITURE FEED POWER H POWER & DATA OUTLETS DKE-THRU WITH TWO INTEGRAL DUPLEX D VOICE/DATA/AV DEVICES (REFER TO TECHNOLOGY WNER'S VENDOR DRAWINGS FOR LOW VOLTAGE OR FURNITURE FEED CONNECTION; REFER TO POKE- ACEWAY WITH 5-20R RECEPTACLES, 18" O.C. SE NOTED CLE, WALL MOUNTED X, COPPER VE DEVICE		BATTERY PACK; "E" AFTER FIXTURE TYPE TAG INDICATES INTEGRAL BATTERY PACK UNLESS OTHERWISE NOTED ON LIGHT FIXTURE SCHEDULE (TYPICAL FOR ALL LIGHT FIXTURE SYMBOLS) LED OR FLUORESCENT FIXTURE, WALL MOUNTED LED, FLUORESCENT, HID, RECESSED, PENDANT OR SURFACE CEILING LED, FLUORESCENT, HID - CEILING WALLWASHER, ACCENT LIGHT, LANDSCAPING TREE ACCENT LIGHT, FACADE LIGHT TRACK WITH TRACK LIGHT FIXTURE (TRIANGLES INDICATE QUANTITY OF TRACK HEADS) EMERGENCY TWIN-HEAD LIGHT WITH INTEGRAL BATTERY PACK, WALL MOUNTED LINEAR FLUORESCENT, LED, RECESSED, PENDANT OR SURFACE CEILING EXTERIOR POLE-MOUNTED AREA LIGHT FIXTURE, ARMS AS INDICATED ON DRAWINGS EXTERIOR PEDESTRIAN SIDEWALK BOLLARD OR POST-TOP LIGHT FIXTURE EXIT LIGHT, LED, CEILING OR PENDANT MOUNTED; DIRECTIONAL ARROWS AS INDICATED; SHADED QUADRANT INDICATES FACE(S) OF FIXTURE					UL UTIL V VA VAR VAV VFD W WP XFMR	UNLESS OTHERWISE NOTED UNDERWRITERS LABORATORIES UTILITY VOLT VOLTAMPERE VOLT AMPERE REACTIVE VARIABLE AIR VOLUME VARIABLE FREQUENCY DRIVE WIRE WEATHER PROOF TRANSFORMER



13099 S. Cleveland Avenue, Suite 500 Fort Myers, FL 33907 P 239.275.4240

COA 15

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This item has been electronically signed and sealed by Michael Barrile, PE on the date adjacent to this seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

ARCHITECTURE WORKS

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PROJECT STATUS

CONFORMANCE SET

SHEETELECTRICAL LEGEND,
ABBREVIATIONS,
SHAND SHEET INDEX

MARCH 24, 2023

EC000

ELECTRICAL GENERAL NOTES

GENERAL: THE DRAWINGS AND APPLICABLE SPECIFICATIONS SHALL BE CONSIDERED SUPPLEMENTARY, ONE TO THE OTHER AND ARE CONSIDERED THE "CONTRACT DOCUMENTS". ALL WORKMANSHIP, METHODS AND/OR MATERIALS DESCRIBED OR IMPLIED BY ONE AND NOT DESCRIBED OR IMPLIED BY THE OTHER SHALL BE PROVIDED, FURNISHED OR PERFORMED AS IF IT HAD APPEARED IN BOTH SECTIONS. THE TERM "CONTRACT DOCUMENTS" DESCRIBED HEREIN IS NOT LIMITED SOLELY TO THE ELECTRICAL PORTION OF THE DRAWINGS AND SPECIFICATIONS, BUT

ENCOMPASSES THE DRAWINGS AND SPECIFICATIONS OF ALL DIVISIONS AS A WHOLE.

- PROVIDE AN OPERATING AND MAINTENANCE MANUAL TO OWNER PRIOR TO THE FINAL ACCEPTANCE. THE MANUAL SHALL INCLUDE, AS A MINIMUM, (1) SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. ALSO PROVIDE TWO OPERATIONS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS AND METHOD OF OPERATION FOR EQUIPMENT SHALL BE CLEARLY IDENTIFIED, AND THE NAME, PHONE NUMBER AND ADDRESS OF AT LEAST ONE QUALIFIED SERVICE AGENCY.
- INCLUDE ALL COSTS FOR EXCAVATION, SAW CUTTING, DIRECTIONAL BORING, CORE DRILLING, BACKFILLING, SURFACE RESTORATION, REPAIR OF FINISHES, ETC. THAT IS REQUIRED IN ORDER TO MEET THE PROJECT REQUIREMENTS.
- INCLUDE IN BID ALL COSTS ASSOCIATED WITH TEMPORARY ELECTRICAL SERVICE AS REQUIRED FOR USE BY ALL TRADES DURING CONSTRUCTION. REMOVE TEMPORARY POWER AT THE COMPLETION OF THE PROJECT. OBTAIN AND PAY FOR ALL REQUIRED PERMITS FOR TEMPORARY POWER. ENGINEER OF RECORD SHALL BE PROVIDED WITH ADDITIONAL COMPENSATION FROM THE CONTRACTOR WHERE SIGNED & SEALED DRAWINGS ARE REQUESTED BY THE CONTRACTOR
- TO THE ENGINEER OF RECORD IF REQUIRED BY THE AHJ FOR THE TEMPORARY POWER. PROVIDE A COMPLETE UL LISTED LIGHTNING PROTECTION SYSTEM WITH A MASTER LABEL FOR THE ENTIRE FACILITY PER THE REQUIREMENTS OF NFPA 780, AND THE DIVISION 26 SPECIFICATIONS, UNLESS NOTED OTHERWISE. LIGHTNING PROTECTION SYSTEM SHALL INCLUDE BURIED COUNTERPOISE, UNLESS NOTED OTHERWISE.
- LOCATE, IDENTIFY, PROTECT AND DOCUMENT ALL UTILITY LINES LOCATED WITHIN THE PROJECT BOUNDARY. FOR LOCATING SITE UTILITIES, CONTACT SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS IN ADVANCE PRIOR TO DIGGING, AT 1-800-432-4770.
- INCLUDE IN BID THE TRANSPORT AND DISPOSAL OR RECYLING OF ALL WASTE MATERIALS GENERATED BY THIS PROJECT IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL RULES, REGULATIONS AND GUIDELINES APPLICABLE. COMPLY FULLY WITH FLORIDA STATUTES REGARDING MERCURY-CONTAINING DEVICES, AND WITH ALL DEP AND EPA APPLICABLE GUIDELINES AT THE TIME OF DISPOSAL. PROVIDE OWNER WITH WRITTEN CERTIFICATION OF ACCEPTED DISPOSAL.
- VERIFY AND COORDINATE LOCATIONS OF ANY MISCELLANEOUS EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS (I.E., COPIERS, FAX MACHINES, PRINTERS, KITCHEN APPLIANCES, LAUNDRY APPLIANCES, PROJECTION SCREENS, SHOP TOOLS, MACHINE, ELEVATORS, ETC.) WITH APPROVED SHOP DRAWINGS, OWNER-PROVIDED CUT SHEETS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED.
- VERIFY AND COORDINATE LOCATIONS AND EXACT ELECTRICAL REQUIREMENTS FOR ALL MECHANICA PLUMBING AND FIRE PROTECTION EQUIPMENT PRIOR TO SUBMITTAL OF SHOP DRAWINGS OF ELECTRICAL EQUIPMENT. PROVIDE ALL NECESSARY RACEWAYS, CONDUCTORS, BOXES, EQUIPMENT ACCESSORIES, ASSOCIATED DISCONNECT SWITCHES, CIRCUIT BREAKERS, CONTROL TRANSFORMERS FIRE ALARM SHUTDOWN, ETC. REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. COORDINATE WITH APPROPRIATE TRADE'S APPROVED SHOP DRAWINGS, MANUFACTURER'S INSTRUCTIONS, AND EQUIPMENT NAMEPLATE INFORMATION, PRIOR TO ROUGH IN, AND PROVIDE ALL NECESSARY ELECTRICAL REQUIRED, UNLESS OTHERWISE NOTED.
- THIS PROJECT REQUIRES COORDINATION DRAWINGS BY THE CONTRACTOR. PARTICIPATE IN THE COORDINATION DRAWING PREPARATION PROCESS AND PROVIDE ALL NECESSARY INFORMATION REQUIRED TO COORDINATE ALL TRADE INFORMATION.
- ALL WORK ON THE ELECTRICAL SYSTEM REQUIRED BY THE CONTRACT DOCUMENTS SHALL BE COORDINATED WITH THE WORK OF ALL OTHER DIVISIONS/TRADES PRIOR TO COMMENCEMENT OF WORK. AVOID INTERFERENCES WITH THE PROGRESS OF OTHER DIVISIONS/TRADES.
- WHERE STRUCTURAL WALLS ARE OF TILT-UP CONSTRUCTION, PROVIDE COORDINATION FOR EXACT DIMENSIONS AND OPENINGS REQUIRED FOR ALL ELECTRICAL COMPONENTS INSTALLED WITHIN TILT-UP WALLS DURING THE SHOP DRAWING REVIEW PROCESS OF THE TILT-UP WALLS, PRIOR TO MANUFACTURE OF THE TILT-UP WALLS.
- LOCATIONS OF VFD'S, DISCONNECTS, MOTOR STARTERS, ETC. FOR HVAC EQUIPMENT ARE DIAGRAMMATIC ON THE PLAN DRAWINGS. EXACT LOCATIONS ARE TO BE COORDINATED WITH CONTRACTOR'S COORDINATION DRAWINGS PRIOR TO ROUGHING IN TO ENSURE PROPER NEC CLEARANCES AND APPROPRIATE MOUNTING SURFACE.
- COORDINATE RECEPTACLE LOCATIONS WITH TECHNOLOGY DRAWINGS OR OWNER'S VENDOR DRAWINGS SO THAT A 120V 20A 5-20R RECEPTACLE IS LOCATED ADJACENT TO EACH VOICE/DATA OUTLET AND TV OUTLET INDICATED ON PLANS. RECEPTACLE IS TO BE CONNECTED TO NEAREST 120V RECEPTACLE CIRCUIT, UNLESS OTHERWISE NOTED ON PLANS. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, CIVIL, LANDSCAPE,
- INTERIOR DESIGN, TECHNOLOGY, STRUCTURAL, AND KITCHEN EQUIPMENT DRAWINGS FOR RELATED INFORMATION AND ADDITIONAL INSTALLATION REQUIREMENTS TO BE PERFORMED AS PART OF THE WORK.
- WHERE A DISCREPANCY OR CONFLICT IS FOUND BETWEEN ONE DRAWING AND ANOTHER, OR BETWEEN A DRAWING AND APPLICABLE SPECIFICATIONS, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY IN WRITTEN FORM. IN GENERAL, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS THE DISCREPANCY CONFLICTS WITH APPLICABLE CODES OR OWNER'S DESIGN STANDARDS, WHEREIN THE CODE OR OWNER'S DESIGN STANDARDS SHALL GOVERN.
- CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND/OR SITE AFFECTED BY THIS WORK PRIOR TO SUBMITTAL BID PRICE, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT MAY AFFECT EXECUTION OF THE WORK. SUBMISSION OF A BID PRICE SHALL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT AND/OR MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED THAT COULD HAVE BEEN REASONABLY OBSERVED WILL NOT BE RECOGNIZED.
- COORDINATE ALL PROJECT SCHEDULING AND PHASING REQUIREMENTS WITH ARCHITECT/ENGINEER AND OWNER PRIOR TO SUBMITTING BID PRICE. THIS PROJECT MAY REQUIRE PHASING SEQUENCES AND POTENTIAL PREMIUM TIME WORK AND ALL COSTS FOR SUCH SHALL BE INCLUDED IN THE BID PRICE, PROVIDE ADEQUATE WORK FORCE AND EQUIPMENT, AND INCLUDE PREMIUM TIME AS MAY BE REQUIRED IN ORDER TO ADHERE TO THE PROJECT SCHEDULE. ADDITIONALLY, ENSURE THAT LONG LEAD ITEMS DO NOT IMPACT THE PROJECT'S SCHEDULE OR PHASING.
- ANY TEMPORARY INTERRUPTION ON POWER REQUIRED FOR THE SYSTEM TIE-IN OR SWITCHOVER FOR ANY PORTION OF THE ELECTRICAL SYSTEM SHALL BE PRE-APPROVED IN
- COORDINATE EXACT REQUIREMENTS WITH THE LOCAL UTILITY COMPANIES AND PROVIDERS (ELECTRIC, TELEPHONE, CABLE TV, ETC.) AND INCLUDE ALL COSTS FOR PROVIDING TEMPORARY AND PERMANENT SERVICES REQUIRED FOR THIS PROJECT IN THE BID PRICE. BID PRICE SHALL INCLUDE, BUT NOT BE LIMITED TO, EXCAVATION, RACEWAYS, BACKFILL, EQUIPMENT, EQUIPMENT PADS, BACKBOARDS, METERS, GROUNDING, UTILITY ENGINEERING AND IMPACT FEES.
- . CONDUCT WORK OPERATIONS AND DEBRIS REMOVAL IN A MANNER THAT ENSURES MINIMUM INTERFERENCE WITH NORMAL BUSINESS OPERATIONS, TRAFFIC, PARKING, ETC. ONGOING IN ADJACENT OCCUPIED SPACES OR FACILITIES. PROVIDE ALL THAT IS REQUIRED TO EFFECTIVELY PROTECT SURROUNDING OCCUPANTS, EQUIPMENT, FINISHES, FURNITURE, ETC. FROM DAMAGE OR EXCESSIVE NOISE THROUGHOUT THE DURATION OF THIS PROJECT. CONTRACTOR IS RESPONSIBLE FOR ANY LOSSES OR DAMAGE. ANY DAMAGE RESULTING FROM THE FAILURE TO ADHERE TO THIS REQUIREMENT. RESTORE DAMAGED ELEMENTS TO ORIGINAL CONDITION BY THE CONTRACTOR TO THE SATISFACTION OF THE ARCHITECT/ENGINEER AND OWNER, AT NO ADDITIONAL COSTS. REPORT OF ANY SUCH OCCURRENCE TO THE ARCHITECT/ENGINEER AND OWNER IMMEDIATELY AND AWAIT WRITTEN DIRECTION PRIOR TO PROCEEDING WITH REPAIRS.
- COORDINATE THE LOCATION OF ALL LIGHT FIXTURES, DEVICES AND BOXES WITH WINDOWS, MIRRORS, MILLWORK, CABINETS, GLASS CURTAIN WALLS, AND GLASS WALLS PRIOR TO INSTALLATION OF CONDUITS OR BOXES. REVIEW ALL CONTRACT DRAWINGS TO ASCERTAIN ANY CONFLICTS PRIOR TO BIDDING. OBTAIN CLARIFICATION FROM A/E PRIOR TO BID. CONTRACTOR SHALL NOT BE ENTITLED TO ADDITIONAL COMPENSATION FOR WORK REQUIRED TO RELOCATE OUTLET BOXES OR RACEWAYS FOR COORDINATION WITH OTHER TRADE'S WORK. **ELECTRICAL EQUIPMENT**:
- EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED. ALL COMPONENTS OF THE ELECTRICAL SYSTEM LOCATED OUTDOORS OR INDOORS WHERE EXPOSED TO SIGNIFICANT MOISTURE SHALL BE WEATHERPROOF, NEMA 3R, AS A MINIMUM, WHETHER INDICATED ON THE CONTRACT DRAWINGS OR NOT.
- TERMINATION PROVISIONS FOR ALL ELECTRICAL EQUIPMENT (PANELBOARDS, SWITCHBOARD, TRANSFORMERS, DISCONNECT SWITCHES, MOTOR CONTROLLERS, AUTOMATIC TRANSFER SWITCHES, ENCLOSED CIRCUIT BREAKERS, WIREWAYS, ETC.) SHALL BE LISTED AND IDENTIFIED FOR USE WITH MINIMUM 75 DEG. F CONDUCTORS IN ACCORDANCE WITH NEC.
- WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NEC.
- THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO 6' ABOVE EQUIPMENT OR STRUCTURAL CEILING, WHICHEVER DISTANCE IS LOWER, WITH A WIDTH AND DEPTH OF THE PANELBOARD OR SWITCHBOARD MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NEC.
- PROVIDE A REINFORCED CONCRETE PAD, SIZED 4" LARGER IN ALL DIRECTIONS THAN THE FOOTPRINT OF THE EQUIPMENT, AND 4" HIGH, FOR ALL FREESTANDING, FLOOR-MOUNTED ELECTRICAL EQUIPMENT. PROVIDE VIBRATION ISOLATORS AND/OR ANCHORS PER MANUFACTURER'S INSTRUCTIONS

- PROVIDE HACR RATED CIRCUIT BREAKER FOR ALL HVAC EQUIPMENT
- PROVIDE AFCI PROTECTION TO COMPLY WITH NEC IN ALL GUEST ROOMS AND GUEST SUITES WITH PROVISIONS FOR COOKING, IN ALL DWELLING UNITS, APARTMENTS AND CONDOMINIUMS. ALL PANELBOARDS OR DISCONNECT SWITCHES LOCATED IN KITCHEN AREAS SHALL BE
- DOOR WHERE SURFACE MOUNTED) PROVIDE SURGE PROTECTION DEVICE FOR ALL MAIN SERVICE EQUIPMENT, PANELBOARDS SERVING SENSITIVE ELECTRONIC EQUIPMENT (DATA RACKS) OR COMPUTERS, LIGHTING PANELS SERVING EXTERIOR LIGHTING, POWER CIRCUITS OR LOW VOLTAGE (FIRE ALARM, TELECOMMUNICATIONS) EXITING THE BUILDING. PROVIDE MINIMUM 30A/3P BREAKER IN PANELBOARDS AND 60A/3P DISTRIBUTION PANEL OR SWITCHBOARD, UNLESS OTHERWISE NOTED,

OR PER THE SPD MANUFACTURER'S RECOMMENDATIONS FOR SURGE PROTECTION DEVICE.

STAINLESS STEEL (COVER AND DOOR WHERE PANEL IS FLUSH MOUNTED, PANEL BOX, COVER &

0. CONTRACTOR IS TO SUBMIT FOR APPROVAL TO THE ENGINEER OF RECORD FINAL COORDINATED SETTINGS REQUIRED FOR MAIN CIRCUIT BREAKER AND ALL DOWNSTREAM ADJUSTABLE OVERCURRENT PROTECTIVE DEVICES, BASED ON SELECTED EQUIPMENT MANUFACTURER.

IDENTIFICATION:

- PROVIDE TYPED PANEL DIRECTORIES FOR ALL NEW PANELBOARDS, AND EXISTING PANELBOARDS AFFECTED BY THIS PROJECT. DIRECTORIES SHALL REFLECT PROJECT AS-BUILT CONDITIONS FOR ALL BRANCH CIRCUITS. DIRECTORIES SHALL INCLUDE WHERE EACH PANEL IS FED FROM. ADDITIONALLY, EACH BRANCH CIRCUIT LOAD DESCRIPTION SHALL INCLUDE THE ROOM NUMBER(S FOR EACH LOAD SERVICE (I.E., RECEPTACLES-RMS 501,503). ROOM NUMBERS SHALL BE BASED ON ACTUAL ROOM SIGNAGE INSTALLED IN FIELD. COORDINATE EXACT ROOM NUMBERS WITH A/E AND OWNER PRIOR TO COMPLETION OF PANEL DIRECTORIES.
- PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS ON EACH SWITCHBOARD, SWITCHGEAR DISTRIBUTION PANEL, PANELBOARD, MOTOR CONTROL CENTER, SAFETY SWITCH, ENCLOSED CIRCUIT BREAKER, CABINET, STEP-DOWN TRANSFORMER, TRANSFER SWITCH, ETC., AND ANY OTHER MAJOR COMPONENT OF THE ELECTRICAL SYSTEM.
- PROVIDE ENGRAVED PLASTIC LAMINATE NAME TAGS FOR EACH DISTRIBUTION BREAKER OR BRANCH CIRCUIT BREAKER IN SWITCHGEAR, SWITCHBOARDS, MOTOR CONTROL CENTERS AND OTHER DISTRIBUTION EQUIPMENT. NAME TAG SHALL INCLUDE LOAD DESCRIPTION AND ROOM NUMBER FOR EACH LOAD SERVICE.
- ARC FLASH DANGER/WARNING LABELS SHALL BE APPLIED TO SWITCHBOARD, PANELBOARDS, AND EQUIPMENT CONTROLLERS PER NEC.
- PROVIDE LABELS ON THE INSIDE OF EACH DEVICE COVERPLATE, IDENTIFYING THE PANEL(S)/ CIRCUIT NUMBER(S) DEVICE IS CONNECTED TO.
- PROVIDE NEATLY, HANDWRITTEN IDENTIFICATION ON THE EXTERIOR COVER OF ALL JUNCTION
- BOXES, PULLBOXES AND WIREWAYS, IDENTIFYING THE PANEL(S)/ CIRCUIT NUMBER(S) CONTAINED PROVIDE A PERMANENT SIGN ON THE MAIN ELECTRICAL ROOM DOOR TO THE BUILDING STATING THAT THE MAIN SERVICE DISCONNECTING MEANS IS LOCATED INSIDE.
- PROVIDE A PERMANENT LABEL ON ALL PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, MOTOR CONTROLS CENTERS AND DISTRIBUTION PANELS STATING "DO NOT WORK ON EQUIPMENT WHILE
- ENERGIZED. LOCK-OUT TAG-OUT REQUIRED". PROVIDE REQUIRED IDENTIFICATION PER ANSI STANDARDS, NEC REQUIREMENTS, AND OWNER'S PUBLISHED DESIGN STANDARDS WHERE APPLICABLE.
- **ELECTRICAL DEVICES, OUTLET BOXES, JUNCTION BOXES:**
- LIGHT SWITCHES SHALL BE MOUNTED 48 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED.
- RECEPTACLES, VOICE/DATA OUTLETS, WALL FURNITURE FEEDS SHALL BE MOUNTED 18 INCHES ABOVE FINISHED FLOOR TO CENTER LINE OF DEVICE, UNLESS OTHERWISE NOTED. ABOVE COUNTER RECEPTACLES SHALL BE MOUNTED 6" ABOVE BACK SPLASH TO CENTERLINE OF DEVICE, UNLESS OTHERWISE NOTED.
- WHEN ELECTRICAL BOXES ARE LOCATED IN VERTICAL FIRE-RESISTIVE ASSEMBLIES. (CLASSIFIED AS FIRE/SMOKE AND SMOKE PARTITIONS), THEY SHALL BE INSTALLED WITHOUT AFFECTING THE FIRE CLASSIFICATION. ALL OF THE FOLLOWING CONDITIONS SHALL BE MET:
 - ALL ELECTRICAL BOXES SHALL BE METALLIC.
 - BOX OPENING SHALL OCCUR ONLY ON ONE SIDE OF FRAMING SPACE.
 - BOX OPENING SHALL NOT EXCEED 16 SQUARE INCHES.
 - ALL CLEARANCES BETWEEN OUTLET BOX AND GYPSUM BOARD SHALL BE COMPLETELY FILLED WITH JOINT COMPOUND (OR OTHER APPROVED MATERIAL).
 - PROVIDE A WALL AROUND OUTLETS LARGER THAN 16 SQUARE INCHES. THE INTEGRITY OF THE WALL RATING SHALL BE MAINTAINED.
 - THE TOTAL AGGREGATE SURFACE AREA OF THE BOXES SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
 - OUTLET BOXES LOCATED ON OPPOSITE SIDES OF FIRE RESISTIVE ASSEMBLIES SHALL
 - BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES. OUTLET BOXES SHALL BE SECURELY FASTENED TO WALL FRAMING MEMBERS.
 - THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT NOT TO EXCEED 1/8 INCH
- BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING. IT IS THE INTENT THAT ALL DEVICE OUTLET BOXES (POWER AND SYSTEMS) BE FLUSH MOUNTED IN WALLS, CEILINGS OR FLOORS, AND JUNCTION BOXES FLUSH MOUNTED IN WALLS, CEILINGS, OR FLOORS, OR CONCEALED ABOVE ACCESSIBLE CEILINGS, AND NOT SURFACE MOUNTED, UNLESS
- SPECIFICALLY NOTED ON THE CONTRACT DRAWINGS, OR UNLESS A/E GRANTS WRITTEN PERMISSION ALL COMPONENTS OF THE ELECTRICAL SYSTEM (INCLUDE RACEWAYS, ELECTRICAL EQUIPMENT, OUTLET BOXES, JUNCTION BOXES, ETC.) LOCATED IN A HAZARDOUS (CLASSIFIED) LOCATION SHALL BE APPROVED FOR USE IN SAID LOCATION, AS DEFINED BY THE NEC, WHETHER INDICATED
- ON THE CONTRACT DOCUMENTS OR NOT. . ALL DEVICES SHALL BE MOUNTED VERTICALLY, UNLESS OTHERWISE NOTED.
- ALL RECEPTACLES SHALL BE MOUNTED SUCH THAT THE GROUND PIN IS MOUNTED UP.
- WHERE DEVICES ARE SHOWN IN WALLS BACK-TO-BACK ON OPPOSITE SIDES, INSTALL SO THAT THEY ARE SEPARATED BY AT LEAST 12".

SHALL BE TAMPERPROOF.

- RECEPTACLES OR JUNCTION BOXES FOR ELECTRIC WATER COOLERS SHALL BE LOCATED DIRECTLY BEHIND ELECTRIC WATER COOLER, CONCEALED FROM DIRECT VIEW. RECEPTACLES SHALL BE GFCI TYPE. JUNCTION BOXES FOR HARD-WIRED CONNECTION TO EWC SHALL BE CIRCUITED TO GFCI PROTECTED CIRCUIT BREAKER IN PANELBOARD.
- 0. ALL EXTERIOR RECEPTACLES OR RECEPTACLES LOCATED IN AREAS SUBJECT TO MOISTURE (PARKING GARAGE, WASHDOWN AREAS IN KITCHEN, ETC) SHALL BE GFCI TYPE. ALL EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH CAST METAL, IN-USE COVER UNLESS NOTED OTHERWISE.

ALL RECEPTACLES LOCATED IN KITCHENS, BATHROOMS OR WITHIN 6' OF THE INSIDE FACE OF A

- SINK, IN MECHANICAL ROOMS, JANITOR CLOSETS, ELEVATOR SHAFTS, ELEVATOR SUMP PUMP, AND ELEVATOR EQUIPMENT ROOMS SHALL BE GFCI TYPE OR GFCI PROTECTED. 12. ALL RECEPTACLES LOCATED IN DAY CARES, PEDIATRIC CLINICS OR AREAS, AND OTHER AREAS AS REQUIRED BY NEC AND STATE OF FLORIDA REQUIREMENTS FOR EDUCATIONAL FACILITIES
- RACEWAYS: FLEXIBLE METAL CONDUIT AND LIQUIDTIGHT METAL CONDUIT (FMC & LFMC) SHALL NOT BE USED IN LENGTHS THAT EXCEED 6'-0" UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E **GRANTS WRITTEN PERMISSION**
- ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS, INCLUDING LOW VOLTAGE SYSTEMS, SHALL BE INSTALLED IN A COMPLETE RACEWAY SYSTEM (CONDUIT) UNLESS SPECIFIED NOTED OTHERWISE. THE USE OF ELECTRICAL NON-METALLIC TUBING (ENT) AND LIQUIDTIGHT FLEXIBLE NON-METALLIC CONDUIT (LFNC) ARE PROHIBITED UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E OR
- OWNER GRANTS WRITTEN PERMISSION CONNECTIONS TO TRANSFORMERS, AHU'S, AND PUMPS SHALL BE WITH LIGUIDTIGHT, FLEXIBLE METAL CONDUIT NO PVC CONDUIT MAY BE USED INSIDE OF BUILDING UNLESS ROUTED UNDERGROUND, AND UNLESS
- OTHERWISE NOTED. ALL CONDUIT TERMINATIONS AT TERMINAL BOARDS ARE TO HAVE GROUNDING BUSHINGS AT
- CONDUIT FNDS
- ALL CONDUITS ARE TO BE CONCEALED UNLESS IMPOSSIBLE DUE TO EXISTING CONDITIONS (I.E. EXPOSED CEILINGS, BUILDING EXTERIOR WALL RUNS), CONCEAL ALL CONDUITS ABOVE CEILINGS OF IN WALLS AND MILLWORK. WHERE EXISTING CONDITIONS DICTATE THAT CONDUITS CANNOT BE CONCEALED, NOTIFY ARCHITECT/ENGINEER PRIOR TO INSTALLING CONDUIT FOR RESOLUTION TO ROUTING.
- SEAL ALL PENETRATIONS AND OPENINGS MADE DURING EXECUTION OF WORK IN FIRE-RATED WALLS. WALLS SHALL BE SEALED WITH UL-APPROVED PRODUCT WITH THE SAME OR GREATER RATING OF WALL PENETRATED.

- PROVIDE ALL PENETRATIONS THROUGH FLOORS, WALL, CEILINGS AND ROOFS WHERE REQUIRED. COORDIANTE LOCATIONS AND SIZES WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS, FIELD CONDITIONS AND WORK OF ALL OTHER DIVISIONS/TRADES. ALL
- ALL RACEWAYS THAT TURN UP INTO THE SLAB OR ELECTRICAL EQUIPMENT FROM UNDERGROUND SHALL BE RIGID GALVANIZED STEEL (RGS) WITH BITUMASTIC COATING FOR AT LEAST THE FINAL 18" IN LENGTH. THE USE OF NON-METALLIC CONDUIT ABOVE GRADE IS PROHIBITED PANEL SCHEDULES AND FLOOR PLANS MAY INDICATE DEDICATED HOMERUNS FOR EACH BRANCH
- CIRCUIT. BRANCH CIRCUITS MAY BE GROUPED IN A COMMON HOMERUN WHERE THE HOMERUN DOES NOT EXCEED 3 PHASE CONDUCTORS, 3 NEUTRAL CONDUCTORS, AND 1 EQUIPMENT GROUND. THE HOMERUN RACEWAY SIZE AND CONDUCTOR SIZE SHALL BE INCREASED AS NECESSARY TO COMPLY WITH THE NEC FOR 40% MAXIMUM FILL AND DERATING REQUIREMENTS.
- 12. IT IS THE INTENT THAT ALL RACEWAYS BE CONCEALED IN WALLS, ABOVE CEILINGS, IN SLAB, OR BELOW SLAB UNLESS SPECIFICALLY NOTED OTHERWISE, OR UNLESS A/E GRANTS WRITTEN PERMISSION. WHERE RACEWAYS ARE INSTALLED IN SLABS, THE MINIMUM SPACING, MAXIMUM RACEWAY SIZE, AND ANY OTHER STRUCTURAL LIMITATIONS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWINGS AND THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
- 13. PROVIDE SEAL OFF FITTINGS, APPROVED FOR SUCH USE, WHERE RACEWAYS PENETRATE BETWEEN A DRY, CONDITIONED ENVIRONMENT AND THE EXTERIOR OR WET ENVIRONMENTS SUCH AS WALK-IN COOLERS OR FREEZERS, KITCHEN WASH-DOWN AREAS, ETC.
- 14. PROVIDE POLYOLEFIN JET-LINE #232 (NYLON PULL STRING) IN EACH EMPTY CONDUIT WITH ENGRAVED METAL TAG INDICATING CONDUIT DESIGNATION.
- 5. MINIMUM RACEWAY SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE.
- 16. SET SCREW FITTINGS SHALL BE USED FOR EMT CONDUIT.
- **CONDUCTORS**: ALL WIRE SHALL BE SIZED AS SHOWN ON THE DRAWINGS. IF NO SIZE IS SHOWN, THEN WIRE SHALL BE #12 AWG, EXCEPT THAT BRANCH HOMERUNS OVER 100' IN LENGTH SHALL BE MINIMUM #10 AWG FOR 120/208 VOLT CIRCUITS, AND HOMERUNS OVER 200' IN LENGTH SHALL BE MINIMUM #10 AWG FOR 277/480 VOLT CIRCUITS. REFER TO BRANCH CIRCUIT VOLTAGE DROP TABLES BELOW. BRANCH CIRCUIT WIRING SHALL BE SIZED TO LIMIT THE VOLTAGE DROP TO 3% OF NOMINAL VOLTAGE OR
- BRANCH CIRCUITS SHALL BE INCREASED IN SIZE AS REQUIRED TO COMPENSATE FOR VOLTAGE DROP FROM LENGTH OF CIRCUIT DUE TO FIELD ROUTING. FINAL INSTALLATION SHALL NOT EXCEED A MAXIMUM OF 3% VOLTAGE DROP FOR BRANCH CIRCUITS. REFER TO VOLTAGE DROP TABLE BELOW FOR CONDUCTOR SIZES FOR BRANCH CIRCUITS:

120V (BASED ON 1500W LOAD) MIN. CONDUCTOR SIZE INCREASE FOR VOLTAGE DROP CIRCUIT LENGTH

0 FT - 70 FT #12 AWG 71 FT - 115 FT #10 AWG 116 FT - 180 FT #8 AWG 181 FEET AND LONGER: SUBMIT WIRE SIZE TO ENGINEER OF RECORD FOR WRITTEN APPROVAL

MIN. CONDUCTOR SIZE

CIRCUIT LENGTH INCREASE FOR VOLTAGE DROP 0 FT - 140 FT #12 AWG 141 FT - 220 FT #10 AWG 221 FT - 350 FT #8 AWG

- 3. ALL WIRE SIZES ARE BASED ON AMPACITIES FOR 75 DEG. F TEMPERATURE RATING LISTED IN NEC. 4. ALL CONDUCTORS IN CABINETS MUST BE CAREFULLY FORMED AND HARNESSED SO THAT EACH
- CONDUCTOR DROPS OFF DIRECTLY OPPOSITE TO TERMINAL ALL CONDUCTORS SHALL BE COPPER, THHN/THWN, AND SOLID FOR #10 AWG AND
- SMALLER, AND STRANDED FOR #8 AWG AND LARGER. THE USE OF ALUMINUM CONDUCTORS, RACEWAYS, BOXES, BUSSING, WINDINGS, ETC. ARE
- PROHIBITED. ALL MATERIALS SHALL BE COPPER, UNLESS SPECIFICALLY NOTED OTHERWISE OR UNLESS A/E OR OWNER GRANTS WRITTEN PERMISSION.
- FIRE PROTECTION PIPING SHALL NOT BE USED FOR GROUNDING.

277V (BASED ON 4155W LOAD)

- ALL FEEDERS AND BRANCH CIRCUITS SHALL INCLUDE AN EQUIPMENT GROUND CONDUCTOR. METAL RACEWAYS SHALL NOT BE USED AS EQUIPMENT GROUND.
- WHERE A PHASE CONDUCTOR IS INCREASED IN SIZE DUE TO VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL BE INCREASED IN SIZE PROPORTIONATELY.
- PROVIDE A GROUND BUS BAR IN EACH ELECTRICAL ROOM AND TELECOMMUNICATIONS / IDF/ MDF ROOM FOR ALL NEW CONSTRUCTION AND NEW ROOMS IN EXISTING CONSTRUCTION, AND IN EXISTING CONSTRUCTION WHERE THERE IS NONE INSTALLED WITHIN AN EXISTING ROOM.

<u>LIGHTING</u>:

- LIGHT FIXTURES SUPPORTED BY CEILING GRID SHALL BE SUPPORTED AS FOLLOWS: LIGHT FIXTURES WEIGHING LESS THAN 10 POUNDS SHALL HAVE 12-GAUGE HANGER WIRE CONNECTED FROM THE LIGHT FIXTURE TO THE STRUCTURE ABOVE. LIGHT FIXTURES WEIGHING 10 POUNDS OR MORE SHALL HAVE (2) 12-GAUGE HANGER WIRES ATTACHED AT OPPOSITE CORNERS OF THE LIGHT FIXTURE TO THE STRUCTURE ABOVE.
- COORDINATE EXACT LOCATIONS OF LIGHT FIXTURES IN LAY-IN AND GYPBOARD CEILINGS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AND WALL MOUNTED EXTERIOR AND INTERIOR LIGHT FIXTURES WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION. WHERE THE QUANTITY OF LIGHTS DIFFERS BETWEEN THE ARCHITECTURAL RCP AND THE ELECTRICAL LIGHTING PLANS, PROVIDE THE HIGHEST QUANTITY OF FIXTURES IN THE BID PRICE. THE DISCREPANCY IN QUANTITY SHALL BE BROUGHT TO THE ATTENTION OF THE A/E. THE HIGHEST QUANTITY SHALL BE CIRCUITED TO THE LOCAL ROOM OR AREA LIGHTING CIRCUITS AND LIGHTING CONTROL DEVICES, UNLESS
- OTHERWISE DIRECTED IN WRITING BY THE ARCHITECT/ENGINEER VERIFY ACTUAL CEILING CONSTRUCTION TYPE AS DEFINED ON THE ARCHITECTURAL DRAWINGS AND FURNISH ALL LIGHT FIXTURES WITH THE CORRECT MOUNTING DEVICES WHETHER OR NOT SUCH VARIATIONS ARE INDICATED BY THE LIGHT FIXTURE CATALOG NUMBER. VERIFY THE DEPTH OF ALL RECESSED LIGHT FIXTURES WITH THE ARCHITECTURAL DRAWINGS PRIOR TO ORDERING LIGHT FIXTURES. ANY DISCREPANCIES THAT WOULD CAUSE THE RECESSED LIGHT FIXTURES NOT TO FIT
- INTO CEILING SHALL BE REPORTED TO ARCHITECT/ENGINEER PRIOR TO ORDERING LIGHT FIXTURES. LIGHT FIXTURES RECESSED IN FIRE-RATED CEILINGS SHALL BE PROVIDED WITH APPROVED FIRE-RATED ENCLOSURE WITH A FIRE RATING EQUAL TO THAT OF THE CEILING. PROVIDE A MINIMUM OF 3" CLEARANCE FROM SIDES AND TOP OF RECESSED LIGHT FIXTURES.
- MODIFY ALL LIGHT FIXTURE CATALOG NUMBERS AS REQUIRED TO COORDINATE WITH THE LIGHTING BRANCH CIRCUIT VOLTAGES INDICATED. COORDINATE THE CATALOG NUMBERS WITH THE EXACT FIXTURE MOUNTING AND TRIM REQUIRED BY THE CEILING IN WHICH EACH FIXTURE IS BEING INSTALLED.
- ALL LIGHT FIXTURES SHALL BE PROVIDED COMPLETE WITH LAMPS, UNLESS OTHERWISE NOTED.
- ALL EXIT LIGHTS, LIGHT FIXTURES INDICATED WITH UNSWITCHED CIRCUIT (NIGHTLIGHT N/L), EMERGENCY TWIN-HEAD FIXTURES WITH INTEGRAL BATTERY PACKS, AND BATTERY PACKS INTEGRAL TO LIGHT FIXTURES, SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING OR LIGHTING CONTROLS.

10. PROVIDE FUSING FOR ALL EXTERIOR LIGHT FIXTURES, OR FIXTURES IN PARKING GARAGES OR

- PROVIDE UL WET LABEL OR IP67 RATED LIGHT FIXTURES FOR ALL FIXTURES LOCATED OUTSIDE OR IN PARKING GARAGES, IN SHOWERS, OR OPEN STRUCTURES. PROVIDE 0-DEGREE BALLASTS FOR EXTERIOR FLUORESCENT OR HID LIGHT FIXTURES.
- OPEN STRUCTURES. 1. PROVIDE ALL TEMPORARY NORMAL LIGHTING, EMERGENCY LIGHTING AND EXIT SIGNAGE
- REQUIRED DURING THE PROJECT CONSTRUCTION PHASE. COORDINATE EXACT FOUNDATION AND/OR COMPACTING REQUIREMENTS FOR ALL POLE MOUNTED LIGHT FIXTURES WITH MANUFACTURER'S AND/OR INSTALLER'S STRUCTURAL ENGINEER. POLE BASES SHALL MEET OR EXCEED ALL WIND LOAD RATINGS, GUST FACTORS, IMPORTANCE FACTORS, ETC. REQUIRED BY NATIONAL AND/OR LOCAL CODES. SHOP DRAWINGS SHALL INCLUDES STRUCTURAL DRAWINGS FOR ALL POLE BASES, POLE, ASSEMBLY AND OVERTURN CALCULATIONS REQUIRED IN THIS PROJECT, SIGNED AND SEALED BY A PROFESSIONAL STRUCTURAL ENGINEER REGISTERED IN THE PROJECT STATE.

- 13. WHERE THERE IS NO EMERGENCY GENERATOR/ LIFE SAFETY DISTRIBUTION BRANCH AVAILABLE, PROVIDE INTEGRAL BATTERY PACKS. RATED FOR A MINIMUM OF 90 MINUTES. FOR FIXTURES SHOWN WITH SOLID SHADING AND/OR WITH "E" AFTER FIXTURE TAG, AND FOR ALL EXIT LIGHTS,
- OR UNLESS OTHERWISE NOTED. REFER TO LIGHT FIXTURE SCHEDULE FOR LIGHT FIXTURE TYPES, DESCRIPTIONS, CATALOG NUMBERS AND ADDITIONAL INFORMATION PERTINENT TO THE LIGHT FIXTURE OR INSTALLATION THEREOF.
- COORDINATE LIGHT FIXTURE TRIM TYPE AND FINISH COLOR WITH ARCHITECT PRIOR TO ORDERING.
- 16. EACH LIGHTING CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL
- 17. PROVIDE AS PART OF BID PRICE. AN ADDITIVE ALTERNATE FOR THE SERVICES OF AN INDEPENDENT COMMISSIONING AGENT FOR THE LIGHTING SYSTEM FUNCTIONAL TESTING. INCLUDING ALL REQUIRED REPORTS. WHERE OCCUPANCY SENSORS. TIME SWITCHES. PROGRAMMABLE SCHEDULED LIGHTING CONTROLS, PHOTOSENSORS AND DAYLIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:
- OCCUPANCY SENSORS YIELD ACCEPTABLE PERFORMANCE. CONFIRM THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULED LIGHTING CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF. CONFIRM THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS

CONFIRM THAT THE PLACEMENT, SENSITIVITY AND TIME-OUT ADJUSTMENTS FOR

- MISCELLANEOUS CIRCUIT & INSTALLATION REQUIREMENTS:
- THE INFRASTRUCTURE FOR THE ACCESS CONTROL/ CCTV OR SECURITY ELECTRONICS SYSTEM (CONDUITS, ELECTRICAL BOXES) SHALL BE INSTALLED BY DIVISION 26. THE ACCESS CONTROL/ CCTV OR SECURITY ELECTRONICS SYSTEM CONTRACTOR SHALL PROVIDE AND INSTALL THE WIRE AND CABLE FOR THE SYSTEM AND ALL REQUIRED EQUIPMENT. INSTALLATION OF THE CONDUITS AND ELECTRICAL BOXES SHALL BE UNDER THE DIRECT SUPERVISION OF THE ACCESS CONTROL/ CCTV SYSTEM CONTRACTOR. COORDINATE EXACT LOCATIONS OF DEVICES, RACEWAY LOCATIONS, SIZES AND QUANTITY, CONDUIT STUB-UPS PRIOR TO ROUGH IN.
- THE INFRASTRUCTURE FOR THE VOICE/DATA TELECOMMUNICATIONS SYSTEM (CONDUITS, ELECTRICAL BOXES) SHALL BE INSTALLED BY DIVISION 26. THE TELECOMMUNICATIONS CONTRACTOR SHALL PROVIDE AND INSTALL THE WIRE AND CABLE FOR THE SYSTEM AND ALL REQUIRED EQUIPMENT AND COMPONENTS. INSTALLATION OF THE CONDUITS AND ELECTRICAL BOXES SHALL BE UNDER THE DIRECT SUPERVISION OF THE TELECOMMUNICATIONS CONTRACTOR. COORDINATE EXACT LOCATIONS OF DEVICES, RACEWAY LOCATIONS, SIZES AND
- QUANTITY, CONDUIT STUB-UPS PRIOR TO ROUGH IN. PROVIDE 120V 20A 5-20R RECEPTACLE AT ALL FAN COIL UNITS FOR CONDENSATE PUMP POWER AND HOT WATER RECIRCULATING PUMPS, WHETHER SHOWN ON PLANS OR NOT.
- RECEPTACLE IS TO BE CONNECTED TO NEAREST 120V RECEPTACLE CIRCUIT. PROVIDE 120V CONNECTION TO ALL MOTORORIZED DAMPERS INDICATED ON MECHANICAL PLANS, WHETHER SHOWN ON DIVISION 26 DRAWINGS OR NOT. FIRE/SMOKE DAMPER CIRCUITS ARE TO BE PROVIDED FROM EMERGENCY BRANCH PANEL (LEGALLY REQUIRED BRANCH IF AVAILABLE). MOTORIZED DAMPERS WITHIN THE SAME AREA CAN BE CIRCUITED TO THE SAME CIRCUIT (I.E., DEDICATED CIRCUIT IS NOT REQUIRED).
- PROVIDE PHONE/DATA OUTLET WITH 1" RACEWAY, AND 120V RECEPTACLE ON DEDICATED CIRCUIT ADJACENT TO EACH AIR HANDLING UNIT FOR CONTROL POWER.
- PROVIDE 120V DEDICATED CIRCUIT TO EACH AIR HANDLING UNIT WITH SEPARATE CONNECTIONS 1 UNIT UV LIGHT, UNIT LIGHTS, UNIT RECEPTACLE, AND BI-POLAR IONIZATION FILTER WHERE PROVIDED. COORDINATE WITH DIVISION 23 SHOP DRAWINGS.
- ACCESS CONTROLLED DOOR POWER NOTE: ENSURE ALL 120V CONVENIENCE RECEPTACLE CIRCUITS UTILIZED FOR ACCESS CONTROL POWER SUPPLY ARE UNDER NORMAL OPERATION ALWAYS ENERGIZED AND NOT CONTROLLED THROUGH PLUG LOAD CONTROL / LIGHTING CONTROLS / EPO STATIONS. THIS IS APPLICABLE TO ALL ACCESS CONTROL NOTES THROUGHOUT
- THE ELECTRICAL SET. ENSURE ALL SHUNT TRIP RELAYS ARE CONTINUOUS DUTY RATED OR CONTAIN A SAFETY MECHANISM THAT ENSURES RELAYS GET DE-ENERGIZED AFTER ACTUATING TO PREVENT OVERHEATING.

FIRE ALARM SYSTEM NOTES

- ALL FIRE ALARM EQUIPMENT IS TO BE NEW, UL LISTED FOR FIRE SERVICE, AND SHALL BE COMPATIBLE WITH THE SYSTEM BEING USED. ALL WIRING AND CONDUIT IS TO CONFORM TO NEC ARTICLE 760. WIRING SHALL BE UL LISTED,
- LOW VOLTAGE CONDUCTORS: PROVIDE CONDUCTORS IN ACCORDANCE WITH NFPA 70 AND NFPA 72, AND AS RECOMMENDED BY THE FIRE ALARM SYSTEM MANUFACTURER. CONDUCTORS SHALL BE COPPER. MINIMUM NO. 14 AWG. TWISTED SHIELDED PAIR.

MINIMUM 300V TYPE FPLP PLENUM RATED SOLID COPPER OR STANDARD COPPER WITH MAXIMUM

- SURVIVABILITY: A 1-HOUR RATED CABLE ASSEMBLY SHALL BE PROVIDED FOR NOTIFICATION APPLIANCE CIRCUITS AND ANY OTHER CIRCUITS NECESSARY FOR THE OPERATION OF THE NOTIFICATION APPLIANCE CIRCUITS FROM THE POINT AT WHICH THEY EXIT THE CONTROL UNIT UNTIL THE POINT THAT THEY ENTER THE NOTIFICATION ZONE THAT THEY SERVE.
- MANUAL PULL STATIONS ARE TO BE INSTALLED AT 42" TO BOTTOM OF DEVICE AND NO HIGHER THAN 48" TO HANDLE ABOVE FINISHED FLOOR. PROVIDE MINIMUM 3/4" CONDUIT AND WIRING BETWEEN EACH FIRE ALARM DEVICE AND FROM
- LAST DEVICE TO FACP UNLESS OTHERWISE NOTED. PROVIDE FIRE ALARM RELAY AND DUCT DETECTOR CONNECTED TO FIRE ALARM SYSTEM. WITHIN 5' OF ALL DUCT PENETRATIONS THROUGH FIRE/SMOKE WALLS, WHETHER INDICATED ON ELECTRICAL OR MECHANICAL PLANS OR NOT.
- FIRE ALARM CONTROL PANEL IS TO BE PROVIDED WITH DEDICATED 120V CIRCUIT WITH EQUIPMENT GROUND CONNECTION PER MANUFACTURER'S RECOMMENDATIONS AND ARTICLE 760 OF THE NEC. PROVIDE MINIMUM #12 AWG FOR GROUND CONNECTION. NOTE: PANEL NEUTRAL OR CONDUIT GROUND IS NOT ACCEPTABLE. 120V CIRCUIT SHALL BE FROM
- LIFE SAFETY BRANCH WHERE AVAILABLE. SECONDARY BACK-UP POWER SHALL BE PROVIDED BY INTEGRAL BATTERIES WITHIN THE FIRE ALARM CONTROL PANEL TO SUPPLY POWER TO THE SYSTEM UNDER QUIESCENT LOAD FOR A MINIMUM OF 24 HOURS, AND THEN BE CAPABLE OF AN ADDITIONAL 15 MINUTES ALARM OPERATION AT MAXIMUM CONNECTED LOAD.
- 10. ALL FIRE ALARM POWER CIRCUITS SHALL HAVE A DEDICATED 120V 20A BREAKER THAT SHALL BE RED IN COLOR AND MECHANICALLY PROTECTED (LOCKABLE IN THE "ON" POSITION), MARKED AS "FIRE ALARM CIRCUIT"
- A SUPERVISORY SIGNAL SHALL BE ANNUNCIATED UPON ANY TAMPER SWITCH ACTIVATION. FAILURE OR REMOVAL OF ANY DETECTION OR MANUAL DEVICE SHALL ACTIVATE A TROUBLE
- A CERTIFICATION OF COMPLETION AND UL LISTING SHALL BE ISSUED AND INSTALLED ON THE FIRE ALARM CONTROL PANEL.

13. MINIMUM CANDELA RATING OF STROBES IS 75; "110" ADJACENT TO DEVICE INDICATES 110

- CANDELA RATING. PROVIDE SYNCHRONIZATION OF STROBES IN ALL ADJACENT AREAS WHERE STROBES ARE VISIBLE TO EACH OTHER. 14. ALL STROBES SHALL ACTIVATE UPON INITIATION OF THE GENERAL ALARM.
- 15. ALL STROBES SHALL BE INSTALLED PER ADA MOUNTING HEIGHT REQUIREMENTS. WALL MOUNTED STROBES SHALL BE INSTALLED SO THAT THE BOTTOM OF THE STROBE LENS IS 80" AFF. 16. STROBES SHALL BE INSTALLED WITHIN 15' OF THE ENDS OF ALL CORRIDORS.
- 17. SPEAKER/STROBES, HEAT DETECTORS OR MANUAL PULL STATIONS INSTALLED OUTSIDE OR IN AREAS OPEN TO THE EXTERIOR SHALL BE WEATHERPROOF DEVICES IN APPROVED BACKBOXES.
- 18. SMOKE DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE 19. SMOKE DETECTORS ARE TO BE INSTALLED PER NFPA 72. WALL MOUNTED SMOKE DETECTORS SHALL BE MOUNTED 4"-12" BELOW THE CEILING AND AWAY FROM CORNERS.
- OR RETURN AIR VENTS OR DIFFUSERS. 21. DUCT DETECTORS SHALL BE PHOTO-ELECTRIC ADDRESSABLE TYPE, AND RATED FOR VELOCITIES UP TO 5000 FT/MIN.

20. ALL SMOKE DETECTORS SHALL BE INSTALLED A MINIMUM OF 36" AWAY FROM ANY SUPPLY

- 22. HEAT DETECTORS SHALL BE ADDRESSABLE, FIXED TYPE @ 135 DEG F,
- UNLESS OTHERWISE NOTED. WHERE THERE IS A GENERATOR ON THE PROJECT, CIRCUIT THE REMOTE GENERATOR ANNUNCIATOR PANEL ALARM OUTPUTS TO FIRE ALARM CONTROL PANEL PER AUTHORITY HAVING JURISDICTION
- REQUIREMENTS. PROVIDE AN ADDRESSABLE FIRE ALARM SYSTEM PER NFPA AND ALL STATE AND LOCAL CODE REQUIREMENTS. COMPLY WITH NFPA 72 AND ADA REQUIREMENTS. STATE CERTIFIED AND LICENSED FIRE ALARM CONTRACTOR SHALL PREPARE AND SUBMIT SIGNED AND SEALED DRAWINGS FOR THE LOCAL AUTHORITY HAVING JURISDICTION/ FIRE MARSHALL.
- 25. FIELD VERIFY LOCATION OF AREA SMOKE DETECTORS AND HEAT DETECTORS. DO NOT LOCATE WITHIN 36" OF AN HVAC DIFFUSER (SUPPLY OR RETURN). IN DIRECT AIR FLOW PATH, OR WITHIN 36" OF A SPRINKLER HEAD UNLESS NOTED OTHERWISE. SMOKE DETECTORS FOR DOOR RELEASE SHALL BE LOCATED ON THE CENTERLINE OF THE DOOR AND A MAXIMUM OF FIVE FEET FROM THE DOOR. THE MINIMUM DISTANCE FROM THE DOOR SHALL BE THE DEPTH OF THE WALL SECTION ABOVE THE DOOR, BUT NOT LESS THAN 12".
- PROVIDE LABELS FOR REMOTE ALARM INDICATORS FOR DUCT MOUNTED SMOKE DETECTORS (I.E., AHU-1 SUPPLY, AHU-2 RETURN, FIRE/SMOKE DAMPER, ETC.). DUCT DETECTORS SHOULD BE LOCATED WITHIN 6 TO 10 EQUIVALENT DIAMETERS OF STRAIGHT, UNINTERRUPTED DUCTWORK. DUCT DETECTORS FOR FIRE/SMOKE DAMPERS SHOULD BE LOCATED BETWEEN THE LAST INLET OR OUTLET UPSTREAM OF THE DAMPER AND THE FIRE INLET OR OUTLET DOWNSTREAM OF THE DAMPER, AND WITHIN FIVE FEET OF THE FIRE/SMOKE WALL.
- FOUIPMENT SHUT DOWN FIRE ALARM RELAYS SHALL BE LOCATED WITHIN THREE (3) FEET OF THE EQUIPMENT CONTROLS AND THE WIRING TO THE RELAY SHALL BE MONITORED BY THE FIRE ALARM SYSTEM.

MAXIMUM AMBIENT SOUND LEVEL, WHICHEVER IS GREATER.

COMPLETION OF CONSTRUCTION.

ALARM SYSTEM COMPONENTS.

28. FOR EACH FIRE/SMOKE DAMPER, INTERLOCK WITH FIRE ALARM CONTROL PANEL TO CLOSE FIRE/SMOKE DAMPER AND TO CONTROL THE ASSOCIATED MECHANICAL UNIT PER THE MECHANICAL SEQUENCE OF OPERATIONS, UNLESS NOTED OTHERWISE.

29. ALL NOTIFICATION APPLIANCES SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED.

CLASS "A" SHALL BE PROVIDED FOR WIRING FROM BUILNG TO BUILDING (CAMPUS).

31. SYSTEM SHALL BE AN ADDRESSABLE TYPE VOICE EVACUATION AND SHALL HAVE A SOUND

PRESSURE LEVEL OF 15dB ABOVE AVERAGE AMBIENT SOUND LEVELS OR 5dB ABOVE

32. ALL FIRE ALARM CABLE SHALL BE INSTALLED IN CONDUIT; NO FIRE ALARM CONDUIT SHALL BE

REQUIREMENTS. CONTRACTOR SHALL PROVIDE ALL MATERIAL REQUIRED PER AHJ AND

SUBMIT TO DESIGN PROFESSIONAL AS A SHOP DRAWING FOR REVIEW. SUBMIT COMPLETE

OCCUPANCY. COMPLETED FIRE ALARM CERTIFICATION SHALL BE PROVIDED TO OWNER AT

INTENDED TO REPRESENT A COMPLETE WIRING AND DEVICE DISPLAY. ALL WIRING AND

DEVICES SHALL BE IN ACCORDANCE WITH SELECTED VENDOR'S POINT-BY-POINT WIRING

DIAGRAM. REFER TO FLOOR PLAN FOR DESIGN INTENT AND PROPOSED QUANTITY OF FIRE

DESIGN CRITERIA FOR A FULLY FUNCTIONING AND PERMITTABLE FIRE ALARM SYSTEM.

SIGNED & SEALED DRAWINGS TO PERMITTING AGENCY AND FOR CERTIFICATE OF

34. WHERE A FIRE ALARM RISER IS INDICATED, IT IS DIAGRAMMATIC IN NATURE AND NOT

33. CONTRACTOR/VENDOR SHALL PREPARE FLORIDA LICENSE P.E. WORKING DRAWINGS

INCORPORATING THE FIRE ALARM CRITERIA DESIGN AND CONFIRMING TO AHJ

INSTALLED UNDER SLAB. PROVIDE MANUFACTURED RED CONDUIT UNLESS OTHERWISE NOTED.

30. FIRE ALARM CIRCUITS SHALL BE CLASS "B", STYLE "C" FOR INITIATION DEVICE CIRCUITS (IDC) AND

CLASS "B" STYLE "Y" FOR NOTIFICATION DEVICE CIRCUITS (NAC), UNLESS OTHERWISE NOTED.

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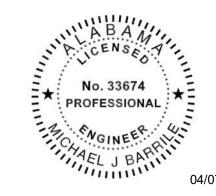
www.tlc-engineers.com

13099 S. Cleveland Avenue, Suite 500

Fort Myers, FL 33907

P 239.275.4240

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This item has been electronically signed and sealed by Michael Barrile, PE on the date adjacent to this seal. Printed copies of this document are not

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> WATERSHED Building Sustainability

ARCHITECTURE

130 NINETEENTH STREET SOUT

302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514

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19-028.000 PROJECT STATUS

MARCH 24, 2023

CONFORMANCE SET

ELECTRICAL GENERAL NOTES

WHERE THERE IS A DISCREPANCY BETWEEN ABOVE GENERAL NOTES AND SPECIFICATIONS, WHERE APPLICABLE, SPECIFICATIONS SHALL BE FOLLOWED

APPLICABLE CODES

ALL WORK AND EQUIPMENT UNDER THIS DIVISION SHALL BE IN STRICT COMPLIANCE WITH THE CODES, STANDARDS AND PRACTICES LISTED HEREIN:

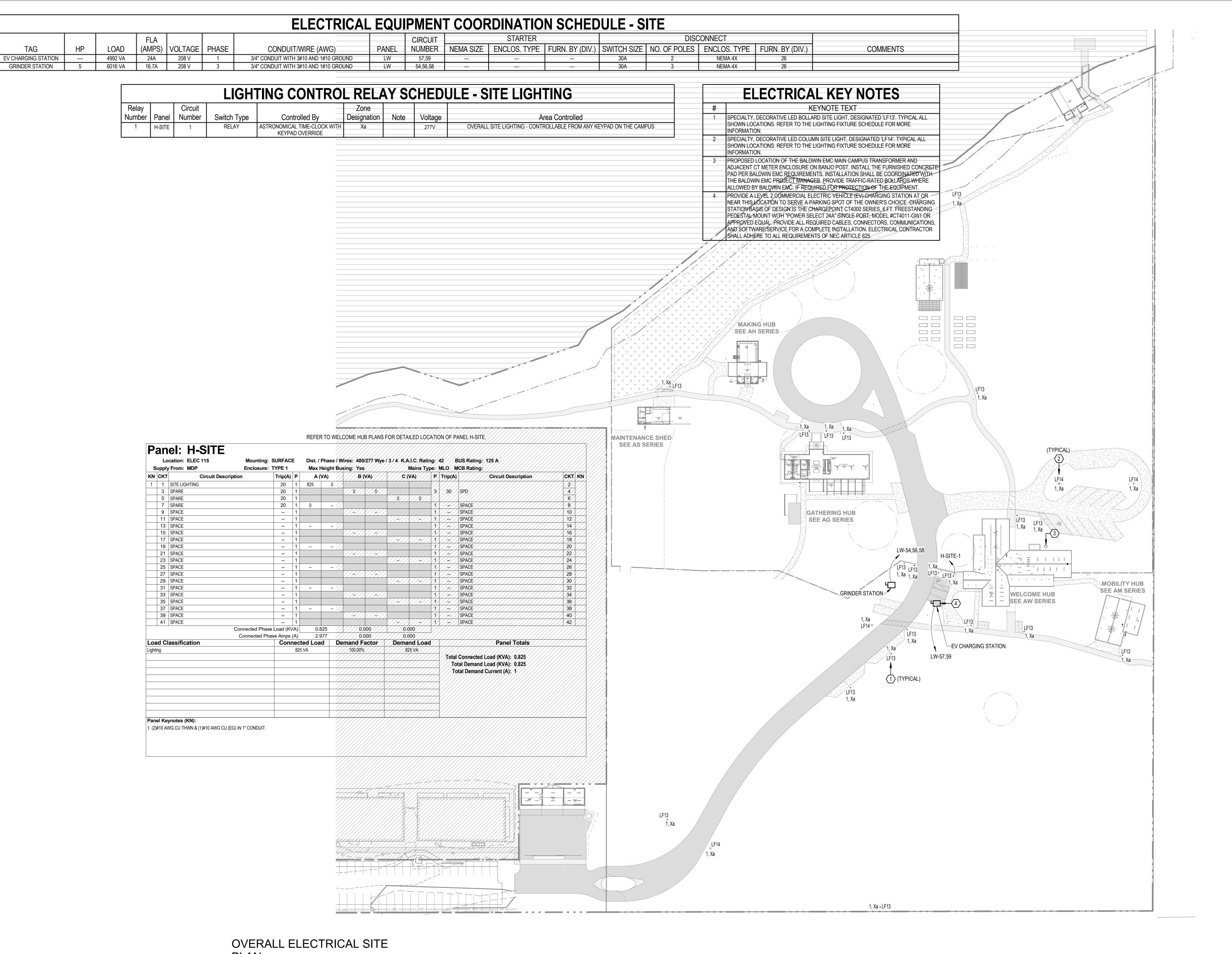
- LIFE SAFETY CODE, NFPA 101. UNDERWRITERS LABORATORIES, INC. (UL) PUBLICATIONS.
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) NATIONAL ELECTRICAL CODE (NEC), 2020 EDITION. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE). NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA).

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).

REQUIREMENTS OF LOCAL POWER COMPANY THE AMERICANS WITH DISABILITIES ACT (ADA) OWNER'S PUBLISHED DESIGN STANDARDS.

INTERNATIONAL BUILDING CODE.

ICC 2021 ASHRAE 90.1 2013

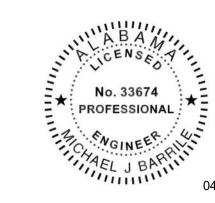


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13099 S. Cleveland Avenue, Suite 500 Fort Myers, FL 33907 P 239.275.4240

www.tlc-engineers.com COA 15

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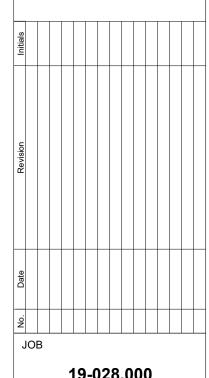
130 NINETEENTH STREET SOUTH BIRMINGHAM, ALABAMA 35233 TELEPHONE: 205.320.0880 www.architectureworks.com

WATERSHED Building Sustainability

302 Magnolia Avenue Fairhope, AL 36532

p 251.929.0514

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19-028.000

PROJECT STATUS

CONFORMANCE SET

MARCH 24, 2023

ELECTRICAL -**OVERALL SITE PLAN**

EC100

1 PLAN 1" = 50'-0"

TAG



	VIDEO SURVEILLANCE SYSTEMS		VOICE AND DATA SYSTE	M	
	PAN/TILT/ZOOM CCTV CAMERA, WALL MOUNTED C X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER PAN/TILT/ZOOM CCTV CAMERA, CEILING MOUNTED C X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER FIXED CCTV CAMERA, WALL MOUNTED C X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER	W,WP P= POLE, L= FLC N= NUMBER OF Y= NOT USED Z= NUMBER OF	CATION OUTLET (E= EXISTING, F= FLUSH, S= SURFACE, M= MODU DOR, R= RACEWAY) DATA CABLES IN THE FACEPLATE FIBER OPTIC STRANDS IN THE FACEPLATE		
⊕ _{x,} -⊕ _{x,}	FIXED CCTV CAMERA, CEILING MOUNTED C X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER 180° CCTV CAMERA, WALL MOUNTED C X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER 180° CCTV CAMERA, CEILING MOUNTED C X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER	U= USER(IF APPLICABLE) +H= INSTALLATION HEIGHT IN INCHES AT CENTER OF OUTLET, COORDINATE WITH ELECTRICAL. IF NOT SHOWN INSTALL AT TYPICAL RECEPTACLE HEIGHT. W= WALL TELEPHONE FACEPLATE WITH SUPPORT STUDS, INSTALLED AT 48" AFF AT CENTER OF OUTLET AND 12" FROM EDGE OF WALL. WP=WEATHERPROOF EXAMPLE: F2 = TWO DATA JACKS IN A SINGLE FACEPLATE, FLUSH MOUNTED			
- D _x ,	180° MULTI-IMAGER CCTV CAMERA, WALL MOUNTED		MECH OUTLET FOR MECHANICAL/ ELECTRICAL/ FIRE ALARM/ ELEVATOR/ STAR CONNECTION Y: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET +H= IF NOT SHOWN, COORDINATE EXACT LOCATION WITH DEVICE CEILING MOUNTED INFORMATION OUTLET, MOUNTED ON FINISHED CEILING XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET		
- ⊗ _{x,}	360° CCTV CAMERA, CEILING MOUNTED CX= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER 360° MULTI-IMAGER CCTV CAMERA, WALL MOUNTED CX= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER	U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET WAP OUTLET FOR WIRELESS ACCESS POINT, WALL MOUNTED Y: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET +H = MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF WAP OUTLET FOR WIRELESS ACCESS POINT, MOUNTED ON FINISHED CEILING XY: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET			
₩XX	360° MULTI-IMAGER CCTV CAMERA, CEILING MOUNTED C X= CAMERA TYPE (1,2,3), SEE DETAIL SHEETS FOR MORE INFORMATION, C = CAMERA NUMBER TVFLAT PANEL DISPLAY WITH MOUNT XX= SCREEN SIZE YY= HEIGHT TO CENTER OF SCREEN	U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET			
PCX	SECURITY SYSTEM WORKSTATION, DESK MOUNTED X= TYPE	FLOOR BOX FOR TECHNOLOGY SYSTEMS AND POWER OUTLETS. REFER TO POKE-THRU/ FLOORBOX SCHEDULE FOR MORE INFORMATION F= FLOOR CONDITION: (C= CONCRETE TYPE, G= GRADE, R= RAISED FLOOR, W= WOOD) Y= DENOTES # OF GANGS (1,2,3) Z= DENOTES PLATE TYPE (A,B,C), A= NO AUDIO/VISUAL			
CR CK	CARD READER, WALL MOUNTED CARD READER WITH INTEGRATED KEYPAD, WALL MOUNTED	LN= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET POKE-THRU FOR TECHNOLOGY SYSTEMS AND POWER OUTLETS. REFER TO POKE-THRU &			
BR KP	BIOMETRIC ACCESS CONTROL DEVICE, WALL MOUNTED KEYPAD, WALL MOUNTED	FLOOR BOX SCHEDULE FOR MORE INFORMATION Y= DENOTES POKE-THRU SIZE (4=4", 6=6" 8=8") Z= DENOTES PLATE TYPE (A,B,C), A= NO AUDIO/VISUAL			
IP WM WC	WIRED IP LOCK, DOOR MOUNTED WIRELESS MORTISE LOCK, DOOR MOUNTED WIRELESS CYLINDRICAL LOCK, DOOR MOUNTED	LN= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET FLOOR BOX USED TO FEED CARLES TO MODUL AR FLIRNITURE REFER TO DETAIL SHEET			
	INTRUSION ALARM KEYPAD ELECTRIC MORTISE LOCK OR ELECTRIC TRIM	FFX X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT POKE-THRU USED TO FEED CABLES TO MODULAR FURNITURE, REFER TO DETAIL SHEET X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT			
	DELAYED EGRESS LATCH LOCK DELAYED EGRESS MAG LOCK ELECTRIC CYLINDRICAL LOCK ELECTRIC LATCH RETRACTION LOCK	AV BACKBOX, INSTALLED BEHIND DISPLAY/ CREDENZA RACK, COORDINATE BACKBOX PRIOR TO ROUGH-IN. REFER TO DETAIL & SCHEDULE FOR MORE INFORMATION U G= DENOTES # OF GANGS +H XY= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET +H= MOUNTING HEIGHT IN INCHES AT CENTER OF DEVICE			
	ELECTRIC LATCH RETRACTION LOCK ELECTRONIC DETENTION LOCK ELECTRIC DOOR STRIKE ELECTRIC DOOR OPERATOR (ACTUATOR ARM)	RECESS IN-WALL STORAGE BOX, INSTALLED BEHIND DISPLAY, COORDINATE BACKBOX PRIOR TO ROUGH-IN. REFER TO DETAIL & SCHEDULE FOR MORE INFORMATION U G= DENOTES # OF GANGS **H XY= AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET U: AS DESCRIBED FOR TELECOMMUNICATIONS OUTLET +H= MOUNTING HEIGHT IN INCHES AT CENTER OF DEVICE			
DPS	DOOR POSITION SWITCH BALANCED MAGNETIC SWITCH PIM MODULE FOR WIRELESS LOCKS, WALL MOUNTED	POWER POLE FOR COMBINED USE - TECHNOLOGY SYSTEMS AND POWER. X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT FIBER OPTICS ROUTING TAG FOR BACKBONE CABLING			
- WG +H - BL +H	+H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF ALARM, BLUE LIGHT, WALL MOUNTED +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF	N= DENOTES CONNECTION TYPE (P=PRIMARY, S=SECONDARY) XX= DENOTES FIBER STAND QUANTITY Z= DENOTES RUN NUMBER REFER TO FIBER OPTICS RISER FOR MORE INFORMATION.			
-[LA] +H	LOCAL ALARM - HORN/STROBE, WALL MOUNTED +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF	COVERAGE FOR IDF			
-[SA] +H	SIREN ALARM FOR INTRUSION DETECTION, WALL MOUNTED +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF ASSISTANCE STATION, WALL MOUNTED	COVERAGE OF EACH TELECOM ROOM. THE SHADED REGIONS REPRESENT THE MAXIMUM DISTANCE LOW VOLTAGE CABLES CAN BE RUN FROM EACH IDF.			
X +H (AS) _X	X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO SPECIFICATION FOR TYPE +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF ASSISTANCE STATION (BLUE LIGHT), TOWER STATION X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO SPECIFICATION FOR TYPE				
- <u>IS</u> X +H	INTERCOM SUBSTATION (DOOR STATION), WALL MOUNTED X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO RISER FOR TYPE				
IM X	INTERCOM MASTER STATION, DESK MOUNTED X= TYPE, IF NOT SHOWN, ONLY ONE TYPE IN PROJECT, REFER TO RISER FOR TYPE INTERCOM MASTER STATION, WAII MOUNTED	COVERAGE FOR IT ROOM 1 COVERAGE FOR IT ROOM 2			
-[M] X +H	CALL STATION (THROUGH PHONE LINE) FOR BUILDING ENTRY, WALL MOUNTED	T - SITE SHEET LIST			
+H	+H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 4'-0" AFF DOOR TYPE IDENTIFIER X= TYPE (A1,C3,B6) REFER TO SECURITY DOOR DETAILS	Sheet Number	Sheet Name	TLC_Sub Discipline	
o REX	DOOR RELEASE BUTTON, WALL MOUNTED X= A: ADA ACCESSIBLE - (PALM ACTUATOR), W: HAND WAVE, NO TYPE: REGULAR PUSH BUTTON DOOR RELEASE BUTTON, DESK MOUNTED REQUEST TO EXIT DEVICE (IR SENSOR), MOUNT CENTERED ABOVE DOOR FRAME	TC000	TECHNOLOGY LEGEND AND SHEET INDEX	SITE	
-[GB] +H (GB)	GLASS BREAK SENSOR, WALL MOUNTED +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 7'-0" AFF GLASS BREAK SENSOR, CEILING MOUNTED	TC100	TECHNOLOGY - OVERALL SITE PLAN	SITE	
GP GO	GATE PEDESTAL ELECTRIC GATE OPERATOR	TC400	TECHNOLOGY RISER	SITE	

VOICE AND DATA SYSTEM X= MOUNTING: (E= EXISTING, F= FLUSH, S= SURFACE, M= MODULAR FURNITURE ADAPTER, **ENGINEERING** SOLUTIONS Z= NUMBER OF FIBER OPTIC STRANDS IN THE FACEPLATE +H= INSTALLATION HEIGHT IN INCHES AT CENTER OF OUTLET, COORDINATE WITH 13099 S. Cleveland Avenue, Suite 500 ELECTRICAL. IF NOT SHOWN INSTALL AT TYPICAL RECEPTACLE HEIGHT. Fort Myers, FL 33907 W= WALL TELEPHONE FACEPLATE WITH SUPPORT STUDS, INSTALLED AT 48" AFF AT CENTER P 239.275.4240 www.tlc-engineers.com EXAMPLE: F2 = TWO DATA JACKS IN A SINGLE FACEPLATE, FLUSH MOUNTED MECH OUTLET FOR MECHANICAL/ ELECTRICAL/ FIRE ALARM/ ELEVATOR/ STAR CONNECTION © Copyright 2019 TLC Engineering Solutions, Inc. TLC Project No.: 719179 +H= IF NOT SHOWN, COORDINATE EXACT LOCATION WITH DEVICE THINK. LISTEN. CREATE. CEILING MOUNTED INFORMATION OUTLET, MOUNTED ON FINISHED CEILING +H= MOUNTING HEIGHT IN INCHES AT CENTER OF OUTLET, IF NOT SHOWN, INSTALL AT 8'-0" AFF No. 33674 WAP OUTLET FOR WIRELESS ACCESS POINT, MOUNTED ON FINISHED CEILING

DIAGRAM

TECHNOLOGY RISER

PROFESSIONAL NGINEER 04/07/2023 This item has been electronically signed and sealed by Michael Barrile, PE on the date adjacent to this seal.

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ARCHITECTURI

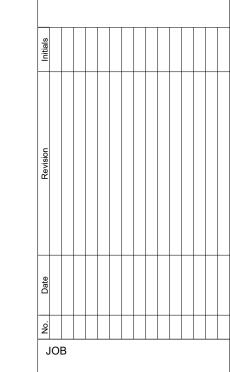
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WATERSHED Building Sustainability

302 Magnolia Avenue Fairhope, AL 36532

p 251.929.0514

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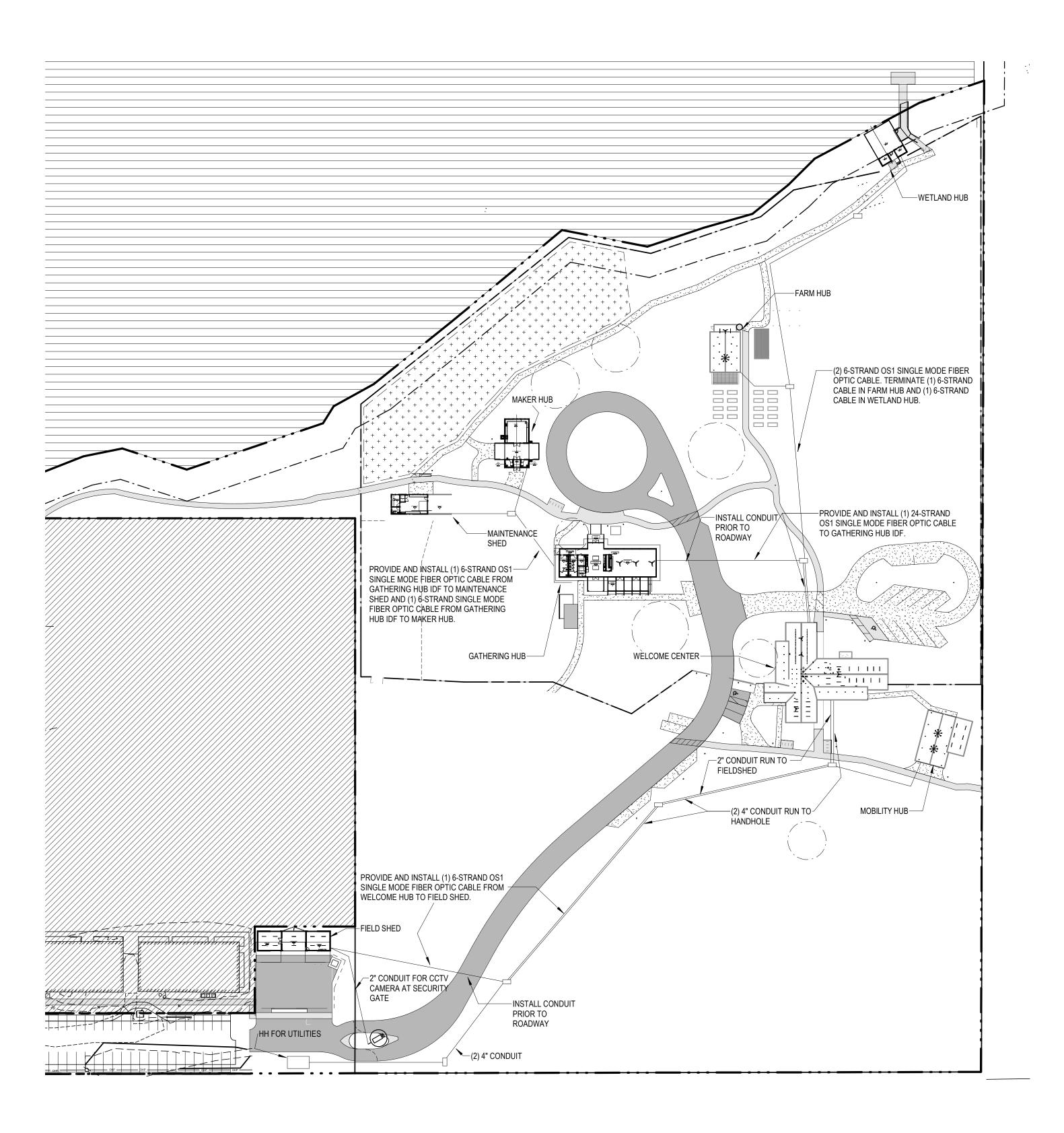
PROJECT STATUS

CONFORMANCE SET

MARCH 24, 2023

TECHNOLOGY **LEGEND AND SHEET INDEX**

TC000



LEVEL 1 - OVERALL SITE PLAN -

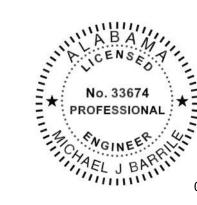
1 TECHNOLOGY 1/64" = 1'-0"

TLC SOLUTIONS

13099 S. Cleveland Avenue, Suite 500 Fort Myers, FL 33907 P 239.275.4240 www.tlc-engineers.com

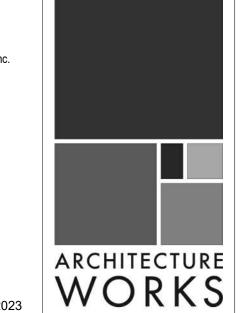
COA 15

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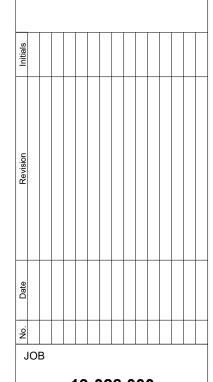
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WATERSHED Building Sustainability

302 Magnolia Avenue Fairhope, AL 36532

p 251.929.0514

SUSTAINABILITY
PACKAGE
ALABAMA **∞**ŏ **ECOTOURISM** SITE FOR



19-028.000

PROJECT STATUS

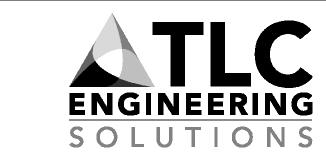
CONFORMANCE SET

MARCH 24, 2023

TECHNOLOGY -

OVERALL SITE PLAN

TC100



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COA 15

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ARCHITECTURE

WATERSHED Building Sustainability

302 Magnolia Avenue Fairhope, AL 36532 p 251.929.0514

> SUSTAINABILITY MAVWFIELD SHED PACKAGEE3E GULF SHORES, ALABAMA FOR ECOTOURISM &

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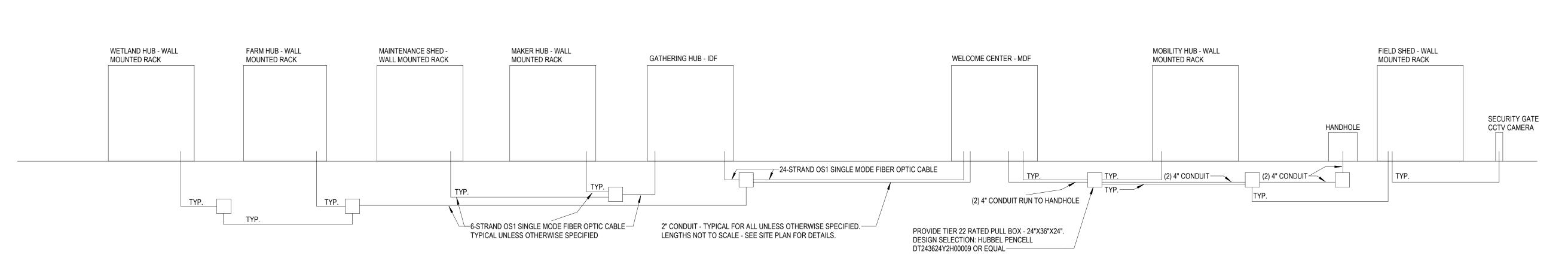
PROJECT STATUS

CONFORMANCE SET

MARCH 24, 2023

TECHNOLOGY RISER DIAGRAM

TC400



1 FIBER RISER DIAGRAM
12" = 1'-0"