# ART CENTER SITE IMPROVEMENTS

## CITY OF ORANGE BEACH

CIVIL CONSTRUCTION DRAWINGS

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**VICINITY MAP** 

#### **UTILITY PROVIDERS**

SANITARY SEWER CITY OF ORANGE BEACH

ORANGE BEACH WATER AUTHORITY WATER

POWER BALDWIN EMC **TELEPHONE** CENTURYLINK

PREPARED BY:



#### CITY OF ORANGE BEACH - FOR UTILITY CONSTRUCTION

- THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY DAMAGE DONE BY HIS EQUIPMENT TO EXISTING SANITARY SEWER LATERALS,
  UTILITIES, CROSS-DRAIN PIPES, BOX CULVERTS AND HEADWALLS ALL DISTRIBUTED OR BROKEN PIPES SHALL BE REPLACED BY THE
  CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FLOWS THROUGH ANY EXISTING CULVERT, PIPE, CHANNELS AND STRUCTURES AND DIVERSION OF FLOWS IN THE CONSTRUCTION AREA AS NECESSARY DURING CONSTRUCTION WITH NO DIRECT PAYMENT. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE VARIOUS CONTRACT PAY ITEMS.
- ALL CONSTRUCTION ACTIVITIES SHALL INCORPORATE BEST MANAGEMENT PRACTICES AS REQUIRED BY ADEM AND EPA AND THE
  CONTRACT SPECIFICATIONS TO CONTROL EROSION, SEDIMENTATION AND THE POTENTIAL FOR DOWNSTREAM WATER QUALITY
  DEGRADATION CONSTRUCTION PRACTICES INCLUDE:
- 4. CONSTRUCT TEMPORARY SEDIMENTATION BASINS OR EARTHEN BERMS AT DOWN-GRADIENT ENDS OF NEWLY GRADED AREAS TO PROVIDE FOR SEDIMENT AND TURBIDITY REMOVAL
- 5. LIMIT SITE CLEARING TO THOSE AREAS REQUIRED FOR A PARTICULAR PHASE OF CONSTRUCTION EXISTING TREES AND VEGETATION
  TO REMAIN WHEREVER POSSIBLE
- 6. TURBIDITY BARRIERS, HAY BALES AND OTHER EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL CONSTRUCTION ACTIVITIES ARE COMPLETE AND THE POTENTIAL FOR EROSION IS ELIMINATED.
- DO NOT EMPLOY SILT FENCES IN A MANNER TO CAUSE THEM TO ACT AS A DAM ACROSS PERMANENTLY FLOWING WATERCOURSES. USE SILT FENCES AT UPLAND LOCATIONS AND TURBIDITY BARRIERS IN PERMANENT WATER BODIES, REGARDLESS OF WATER FEPTH
- 3. TURBIDITY BARRIERS FOR STREAMS AND CREEKS MAY BE EITHER FLOATING OR STAKED TYPE OR ANY COMBINATION OF TYPES THAT WILL SUIT SITE CONDITIONS, AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. INSTALL POSTS IN STAKED TURBIDITY BARRIERS IN THE VERTICAL POSITION UNLESS OTHERWISE NOTED.
- DISTURBED AREAS WITHIN PERMANENT AND TEMPORARY EASEMENTS AND RIGHTS-OF-WAYS SHALL BE RESTORED TO PRE-EXISTING CONDITIONS OR BETTER BY INSTALLING TOPSOIL AND SOLID SOD IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THE TYPE OF SOLID SOD SHALL MAKTHE PKISTING SOD AS DETERMINED BY THE FINGINEFR
- THE DEWATERING LIQUID SHALL BE TESTED FOR A TCLP AND FECAL AND RESULTS PROVIDED TO THE CITY FOR DISCHARGING INTO
  THE CITY'S STORM SEWER SYSTEM. ADDITIONALLY, THE CONTRACTOR SHALL NOT DISCHARGE TURBID DEWATERING LIQUID INTO
  THE CITY'S STORM WATER SYSTEM.

#### SITE NOTES

- ALL CONCRETE SHALL BE CLASS A, 3,000 PSI AT 28 DAYS COMPRESSIVE STRENGTH WITH A MAXIMUM SLUMP OF 4" UNLESS NOTED
  OTHERWISE. ALL EXPOSED CONCRETE TO HAVE A FINE BROOM FINISH.
- 2. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER OR TENANT.
- 3. ALL DIMENSIONS ARE FACE OF CURB AND FACE OF BUILDING OR AS NOTED.
- 4. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL METHODS AS MAY BE NECESSARY PER MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART VI, SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION
- 5. ALL SIDEWALK ENTRANCES AND EXITS SHALL HAVE TRUNCATED DOMES AS SPECIFIED IN SPECIAL DRAWING NO. SW-618, INDEX NO. 734 OF THE ALABAMA DEPARTMENT OF TRANSPORTATION (ALDOT) SPECIAL AND STANDARD HIGHWAY DRAWING MANUAL.
- 6. THE CONTRACTOR SHALL SIZE, INSTALL, AND MAINTAIN ADEQUATE CONTROLS FOR THE SITE. REFER TO THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGMENT ON CONSTRUCTION SITES AND URBAN AREAS, LATEST EDITION.
- 7. THE BENCHMARK WAS REFERENCED TO CONTINUOUS OPERATING REFERENCE STATION RTCM0960.

#### **GENERAL NOTES:**

- 1. EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DETERMINE IF THE LOCATIONS SHOWN ARE CORRECT AND TO DETERMINE IF THERE ARE ADDITIONAL LINES THAT ARE NOT SHOWN ON THE PLANS. ALSO, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL UTILITY LINES DURING CONSTRUCTION WITH NO ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITY OWNER FOR ANY LINES THAT MAY CONFLICT WITH THE CONSTRUCTION AND THEY WILL MAKE THE ADJUSTMENTS NECESSARY (IN THE OPINION OF THE ENGINEER). IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL UTILITY ADJUSTMENTS, AND THERE WILL BE NO ADDITIONAL COMPENSATION FOR THIS COORDINATION, OR ANY DELAYS RESULTING FROM UTILITY ADJUSTMENTS. FOR UTILITY LOCATION SERVICE, THE CONTRACTOR SHALL CALL 1-800-292-8525 AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY OWNER FOR THE COORDINATION OF ANY UTILITIES REQUIRING RELOCATION. THE ENGINEER RESERVES THE RIGHT TO RELOCATE OR ADJUST REQUIRED SANITARY SEWER LINE LOCATIONS AND WATER MAINS TO AVOID EXISTING UTILITIES LOCATED BY THE CONTRACTOR.
- 2. THE CONTRACTOR SHALL EMPLOY THE SERVICES OF A PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF ALABAMA TO LOCATE PROPERTY CORNERS AND LAYOUT THE EASEMENTS AND DRAINAGE ALIGNMENTS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL COMPLY WITH ALL PROVISIONS TO THE EASEMENT DOCUMENTS OBTAINED BY THE OWNER, INCLUDING ALL ADDENDUMS, PROPERTY SPECIFIC ITEMS ARE LISTED ON THE PLANS FOR REFERENCE. HOWEVER IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL EASEMENT AGREFMENTS.
- 3. ALL PROPERTY AND RIGHT-OF-WAY LINE LOCATIONS SHOWN ARE APPROXIMATE. PROJECT RIGHT-OF-WAY LINES SHALL BE SURVEYED AS NOTED ABOVE BY THE CONTRACTOR USING REFERENCES AS NECESSARY. PROJECT EASEMENTS SHALL BE LOCATED BY THE CONTRACTOR USING REFERENCES AS NOTED ON THE CONSTRUCTION PLANS.
- 4. ALL EXISTING BUILDINGS LOCATED WITHIN THE PROJECT LIMITS, EXCEPT THOSE NOTED ON THE PLANS TO BE REMOVED, SHALL BE LEFT IN PLACE. ANY DAMAGE TO THESE BUILDINGS BY THE CONTRACTOR'S OPERATIONS SHALL BE REMEDIED AT THE CONTRACTOR'S EXPENSE.
- 5. THE CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK TO A CONDITION EQUAL TO OR BETTER THAN EXISTED BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE DRAWINGS. RESTORATION WORK INCLUDES, BUT IS NOT LIMITED TO PAVEMENT, BASE, SUB GRADE, CONCRETE CURBS, THERMOPLASTIC TRAFFIC MARKINGS, SIDEWALKS, STORM WATER PIPE, ETC. ALL RESTORATION WORK SHALL BE PER ALDOT STANDARDS AND SPECIFICATIONS AND ALDOT PERMIT REQUIREMENTS IF THERE IS A CONFLICT WITH ALDOT REQUIREMENTS AND THE CONTRACT DOCUMENTS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. IF ADDITIONAL TOPOGRAPHY OR ANY OTHER INFORMATION IS NECESSARY FOR THE CONTRACTOR TO RECONSTRUCT ALL FACILITIES TO PRE CONSTRUCTION GRADES AND DIMENSIONS, THE ACQUISITION OF SUCH ADDITIONAL INFORMATION SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND AT HIS EXPENSE. THE CONTRACTOR SHALL RECONSTRUCT ALL FACILITIES TO PRE-CONSTRUCT ON GRADES AND DIMENSIONS, UNLESS OTHERWISE NOTED. WATER, FERTILIZE AND SUPPLY ALL VEGETATION REMOVED AND REPLACED AT NOT EXPENSE TO THE OWNER, IN ACCORDANCE WITH THE
- 6. ALL TREES, SHRUBS, ETC., ALONG THE LINES OF CONSTRUCTION SHALL BE PROTECTED WHERE POSSIBLE UNLESS NOTED OTHERWISE ON THE DRAWINGS. NO TREES LARGER THAN THREE INCHES (3") IN DIAMETER SHALL BE DESTROYED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER.
- 7. ALL EXCESS MATERIAL FROM EXCAVATIONS AND BORING (INCLUDING REMOVAL OF EXISTING PAVEMENT, CURB AND GUTTER, AND SIDEWALKS) BELONG TO THE CONTRACTOR AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AN ACCEPTABLE MANNER. COST FOR SUCH REMOVAL AND DISPOSAL IS A SUBSIDIARY OBLIGATION OF THE VARIOUS PAY ITEMS AND WILL NOT BE PAID FOR SEPARATELY
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING PIPE FROM FLOATING. IF PIPE FLOATS DURING CONSTRUCTION, THE CONTRACTOR SHALL RELAY PIPE TO GRADE AT HIS EXPENSE
- 9. CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTY AT ALL TIMES. CONSTRUCTION ALONG THE ROUTE SHOULD BE DONE IN STAGES TO MINIMIZE INCONVENIENCE TO LOCAL TRAFFIC. ALL FLAG MEN AND TRAFFIC CONTRACTO. DEVICES NECESSARY SHALL BE FURNISHED BY THE CONTRACTOR. DETOUR PLANS SHALL BE SUBMITTED TO THE CITY ENGINEER AND /OR ALDOT FOR APPROVAL TRAFFIC REGULATIONS ON THE PROJECT SHALL BE IN ACCORDANCE WITH ALDOT.
- 10. THE CONTRACTOR SHALL AT ALL TIMES, GAIN PERMISSION FROM THE ENGINEER FOR ANY PROPOSED CONSTRUCTION THAT WILL AFFECT TRAFFIC ON ANY STREET AFTER GAINING PERMISSION FROM THE ENGINEER. AT LEAST THREE (3) DAYS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL NOT START SAID CONSTRUCTION UNTIL PERMISSION IS RECEIVED AND ALL WARRINGS GINS, BRARCIAGES AND OTHER REQUIRED CONVENIENCES AND SAFETY DEVICES REQUIRED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART VI, LATEST EDITION HAVE BEEN INSTALLED AND APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL AT ALL HIMES, MAINTAIN AT LEAST ONE LANE OF TRAFFIC ON THE STREET WHERE WATER MAINS AND SEWER LINES ARE BEING LAID. THE CONTRACTOR SHALL PROVIDE THE NECESSARY "EXPERIENCED FLAG MAN" TO DIRECT TRAFFIC.
- 11. AT NO TIME WILL A VALVE OF THE EXISTING WATER SYSTEM, BE OPERATED WITHOUT THE PRESENCE AND AUTHORIZATION OF AN AUTHORIZED EMPLOYEE OF THE CITY OF ORANGE BEACH OR ORANGE BEACH WATER AUTHORITY.
- 12. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY CONTROLS AND/OR STRUCTURES REQUIRED TO MAINTAIN SUITABLE AND SAFE WORKING CONDITIONS AT ALL TIMES. SUCH ITEMS SHALL BE REMOVED ONCE THAT PORTION OF WORK HAS BEEN COMPLETED.
- 13. SHOULD THE CONTRACTOR ELECT TO OBTAIN AREAS FOR THE PURPOSE OF STORING MATERIALS AND EQUIPMENT OR FOR CONDUCTING HIS WORK OPERATIONS, HE SHALL FURNISH THE OWNER AND ENGINEER A COPY OF THE AGREEMENT BETWEEN HIM AND THE OWNER OF THE PROPERTY PRIOR TO USING THE AREA (NO DIRECT PAYMENT). ANY CURB AND GUTTER, SIDEWALK, DRIVEWAY, ETC. DAMAGED BY THE CONTRACTOR WHEN HAULING MATERIALS OR MOVING EQUIPMENT IN OR OUT FROM THIS STORAGE AREA SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- 14. THE OWNER RESERVES THE RIGHT TO DELETE, REDUCE AND/OR INCREASE ANY BID ITEM OR ITEM OF WORK. NO ADJUSTMENT WILL BE MADE TO THE OTHER BID ITEM PRICES DUE TO THESE REVISIONS.
- 15. A MINIMUM HORIZONTAL DISTANCE OF FIVE (5) FEET SHALL BE MAINTAINED BETWEEN ALL WATER MAINS AND SANITARY SEWER LINES, UNLESS OTHERWISE UNAVAILABLE, IN LOCATIONS WHERE WATER MAINS MUST CROSS SANITARY SEWER TRUNK LINES, THE SEWER MAIN SHALL BE LAID AT SUCH ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS 18 INCHES ABOVE THE TOP OF THE SANITARY SEWERS. THIS VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN FIVE FEET HORIZONTALLY OF THE SEWER LINE.
- 16. SPECIAL EMPHASIS ON EXCAVATION SAFETY AND TRENCH CONSTRUCTION:
- A. OSHA'S EXCAVATION SAFETY STANDARDS 29, CFR PART 1926.650-652 SUBPART P. IS CONSIDERED AS COMPLIMENTARY TO THESE CONTRACT DOCUMENTS. IF THERE IS ANY DUPLICATION, REDUNDANCY OR CONFLICT BETWEEN THE STIPULATIONS OF THESE CONTRACT DOCUMENTS AND THOSE STANDARDS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.
- B. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT EXCAVATIONS DO NOT ENDANGER WORKMEN, EXISTING STRUCTURES, UTILITIES, OR OTHER FACILITIES. IF SUCH CONDITIONS OCCUR WHICH MAY ENDANGER WORKMEN, EXISTING STRUCTURES, UTILITIES, OR OTHER FACILITIES, IMMEDIATELY INSTALLE AND MAINTAIN ADEQUATE SHEETING AND BRACING PER OSHA SPECIFICATIONS CEASE ALL WORK UNTIL THE SHEETING AND BRACING HAS BEEN PROPERLY AND COMPLETELY INSTALLED. INSTALL THE SHEETING AND BRACING IN A MANNER THAT WILL ALLOW REMOVAL WITHOUT INJURING OR ENDANGERING AND COMPLETELY FILL ALL VOIDS CAUSED BY THE WITHDRAWAL OF SHEETING WITH SAND AND COMPACT TO A DEGREE EQUAL TO THE SURROUNDING SOIL. REMOVE THE SHEETING AS THE WORK PROGRESSES OR, AT THE DISCRETION OF THE ENGINEER, CUT THE SHEETING OFF BELOW FINISHED GRADE AND LEAVE IN PLACE.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND TEMPORARILY RELOCATING ALL INFORMATION AND TRAFFIC SIGNS DURING CONSTRUCTION. SIGN SHOULD BE VISIBLE TO MOTORIZED VEHICLES; REPOSITION SIGNS IN A PRE-CONSTRUCTION LOCATION IMMEDIATELY AFTER CONSTRUCTION IS COMPLETED IN THESE AREAS. EXISTING STREET & ROAD NAMES SIGNS IN THE PROJECT AREAS SHALL BE KEPT VISIBLE AT ALL TIMES FOR THE FACILITATION OF ACCESS BY EMERGENCY VEHICLE TRAFFIC.
- 18. FOLLOWING FINAL ACCEPTANCE OF THIS PROJECT, THE CONTRACTOR SHALL FINALIZE AND SUBMIT TO THE ENGINEER A COMPLETE SET OF RECORD DRAWINGS SHOWING ACTUAL QUANTITIES, LOCATION AND VALVE REFERENCES. THE ENGINEER WILL FURNISH THE CONTRACTOR AN "ISSUED FOR CONSTRUCTION" SET OF DRAWINGS TO BE USED FOR THIS PURPOSE. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A RECORD DRAWING SET OF PLANS AS THE PROJECT PROGRESSES, PAY ESTIMATES SHALL NOT BE RECOMMENDED FOR PAYMENT UNTIL THE CONTRACTOR HAS DEMONSTRATED TO THE OWNER'S REPRESENTATIVE THAT THE RECORD DRAWINGS ARE BEING MAINTAINED.
- 19. THE CONTRACTOR SHALL BACKFILL ALL TRENCHES AT THE END OF EACH DAYS WORK NO TRENCH SHALL BE LEFT OPEN OVERNIGHT. THE ENDS OF ALL PIPE SHALL BE PLUGGED AT THE CLOSE OF EACH DAY'S WORK.

#### **EROSION & SEDIMENTATION NOTES**

- 1. ALL DRAINAGE SWALES MUST BE GRASSED AND RIP-RAP MUST BE PLACED AS SHOWN TO CONTROL EROSION
- 2. SILT FENCE MUST MEET THE REQUIREMENTS OF LOCAL JURISDICTIONAL AGENCY, SAID REQUIREMENTS AS SHOWN BY THESE PLANS.
- 3. DISTURBED AREAS SHALL BE VEGETATED AFTER CONSTRUCTION.
- 4. ADDITIONAL EROSION CONTROL MEASURES OR SILT BARRIERS TO BE PLACED AS SHOWN AND/OR DIRECTED BY THE PROJECT ENGINEER AND/OR LOCAL JURISDICTIONAL INSPECTOR.
- 5. WHEN ANY CONSTRUCTION BORDERS A DRAINAGE COURSE:
  - A. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY BUILDING OR OTHER EXCAVATION SPOIL DIRT, CONSTRUCTION TRASH OR DEBRIS, ETC., FROM THE DRAINAGE AREA SHOWN HEREON IN AN EXPEDITIOUS MANNER AS CONSTRUCTION PROGRESSES.
- B. THE CONTRACTOR HEREBY AGREES TO STOP ALL WORK AND RESTORE THESE AREAS IMMEDIATELY UPON NOTIFICATION BY THE LOCAL JURISDICTIONAL INSPECTOR AND/OR PROFESSIONAL ENGINEER.
- 6. FOR ALL CONSTRUCTION ALONG AND/OR ACROSS WATERWAYS, BANK PROTECTION AND STABILIZATION SHALL BE REQUIRED AS PER LOCAL JURISDICTIONAL EROSION LAWS.
- 7. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED IN PROPER WORKING ORDER UNTIL ALL DISTURBED AREAS ARE STABILIZED. CONSTRUCTION ENTRANCE PADS SHALL BE INSTALLED BY THE CONTRACTOR AT CONSTRUCTION ACCESS POINTS PRIOR TO LAND DISTURBANCE.
- 8. A COPY OF THE APPROVED LAND DISTURBANCE PLAN SHALL BE PRESENT ON THE SITE WHENEVER LAND DISTURBING ACTIVITY IS IN PROGRESS.
- 9. CONSTRUCT SILT FENCE ALONG THE DOWNSTREAM SIDE OF ALL PROPOSED FILL CONSTRUCTION.
- 10. EROSION CONTROL DEVICES SHALL BE INSTALLED IMMEDIATELY AFTER GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE 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.
- 11. CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT PONDS WHEN REQUIRED BY THE ENGINEER OR LOCAL JURISDICTIONAL INSPECTOR. CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY.
- 12. THE CONTRACTOR SHALL REMOVE ACCUMULATED SILT WHEN THE SILT IS WITHIN 12" OF THE TOP OF THE SILT FENCE UTILIZED FOR EROSION CONTROL. IN THE DETENTION POND, SILT SHALL BE REMOVED WHEN A DEPTH OF 18" HAS ACCUMULATED AT THE WEIR.
- 13. ALL EASEMENTS DISTURBED MUST BE DRESSED AND GRASSED TO CONTROL EROSION IN ACCORDANCE WITH EASEMENT PLATS PRIOR ACCEPTANCE.
- 14. SILT BARRIERS TO BE PLACED AT DOWNSTREAM TOE OF ALL CUT AND FILL SLOPES
- 15. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES AROUND THE WORK AND SHALL PROVIDE PROTECTION AGAINST WATER DAMAGE AND SOIL EROSION.
- 16. TREE PROTECTION AND EROSION CONTROL MEASURES ARE TO BE ACCOMPLISHED PRIOR TO ANY OTHER CONSTRUCTION ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- 17. ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER AND DETENTION FACILITIES ARE CONSTRUCTED.
- 18. ALL SEDIMENT CONTROL DEVICES ARE TO BE CONSTRUCTED AND FULLY OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING.
- 19. ALL DISTURBED AREAS TO BE GRASSED AS SOON AS POSSIBLE.
- 20. ALL SLOPES SHALL BE STABILIZED AS SOON AS POSSIBLE.
- 21. GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH GRASS IN KIND. IN AREAS OF INDECIPHERABLE GRASSES-USE FESCUE.
- 22. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM REQUIRED MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL DEVICES TO ENSURE THEIR FUNCTION AT ALL TIMES.
- 23. LENGTH OF RIP RAP AREA SHALL BE 6(SIX) TIMES THE DIAMETER OF THE STORM DRAIN PIPE. WIDTH OF RIP RAP AREA SHALL BE THREE(3) TIMES THE DIAMETER AT THE MOUTH OF THE PIPE AND TWO(2) TIMES THE DIAMETER AT THE DOWNSTREAM END.

ONSITE CONTACT: THOMAS E. GRANGER, P.E.

(251) 544.7900 OFFICE

(251) 295.6921 CELL

NUMBER:	REVISION:	DATE:



PROJECT NOTES

ART CENTER SITE IMPROVEMENTS

CITY OF ORANGE BEACH

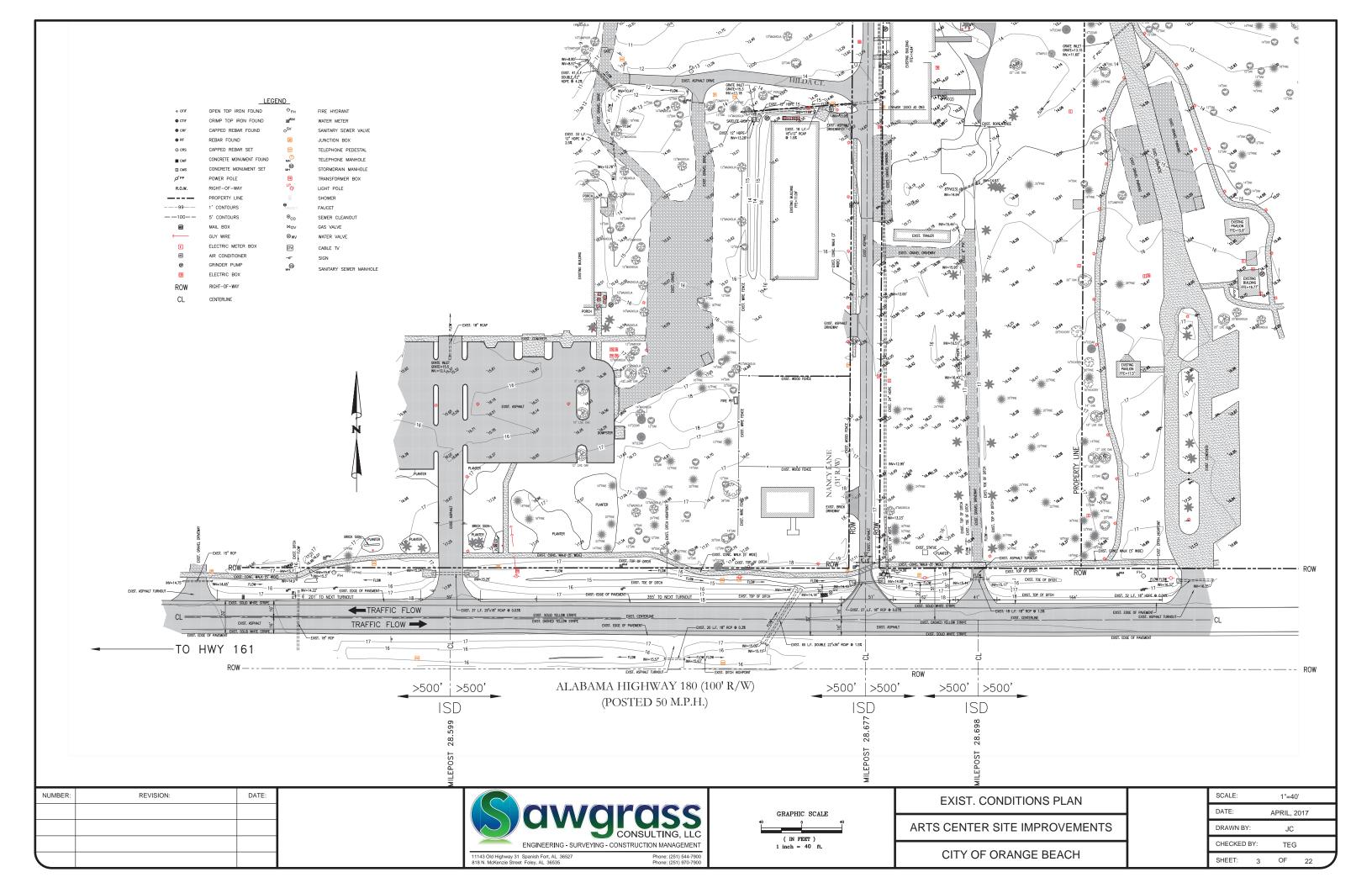
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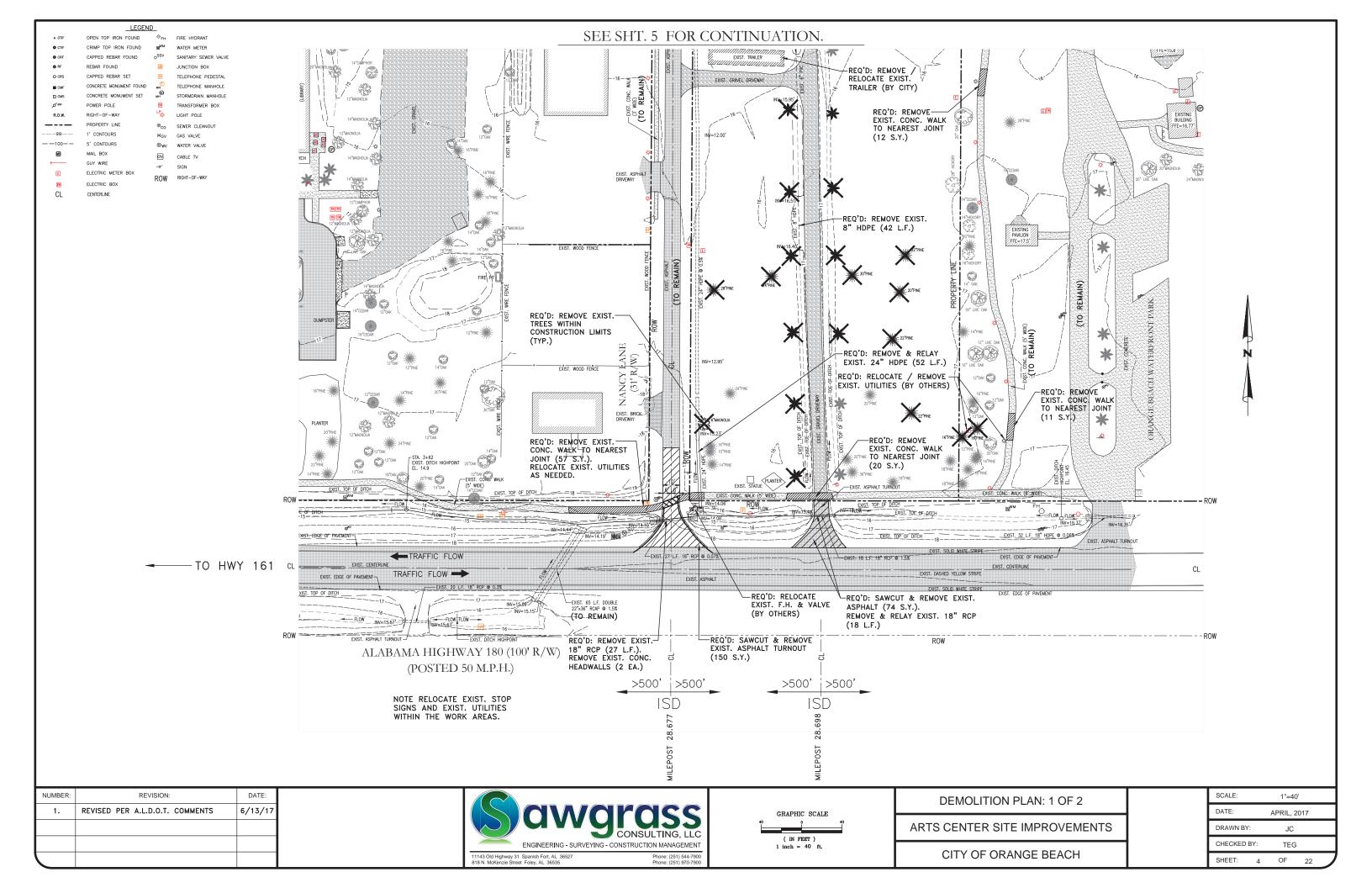
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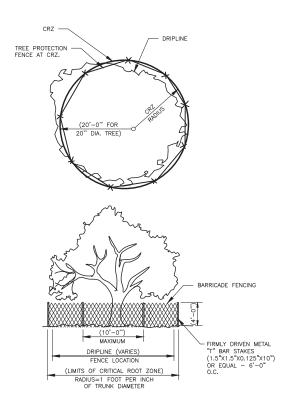
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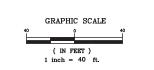






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ARTS CENTER SITE IMPROVEMENTS	
CITY OF ORANGE BEACH	

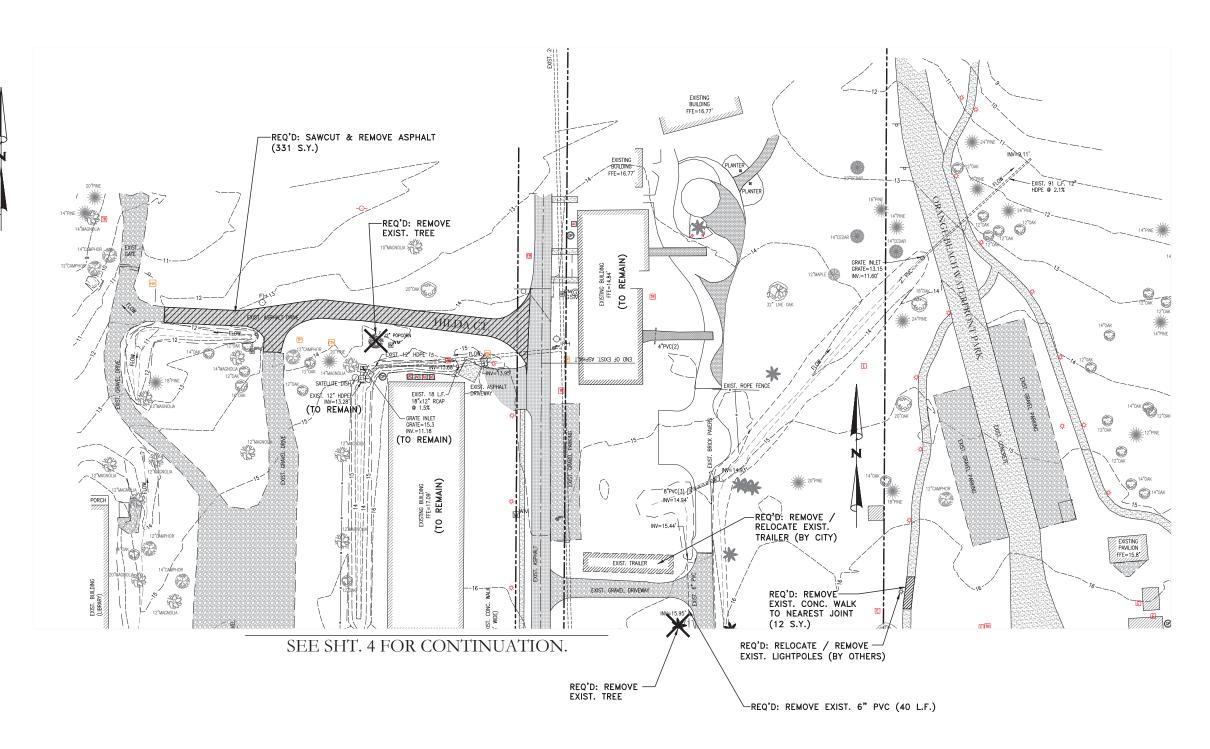
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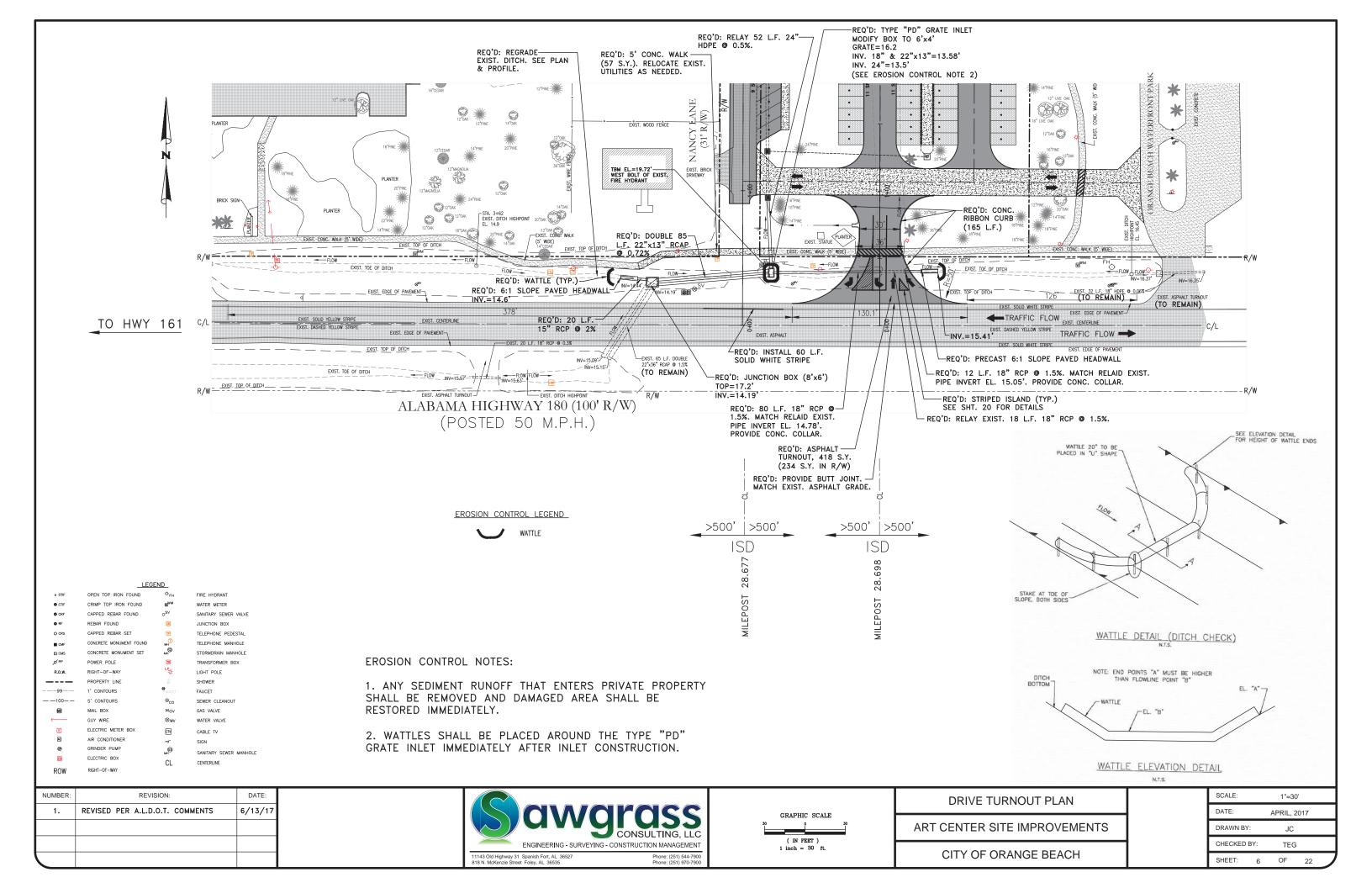
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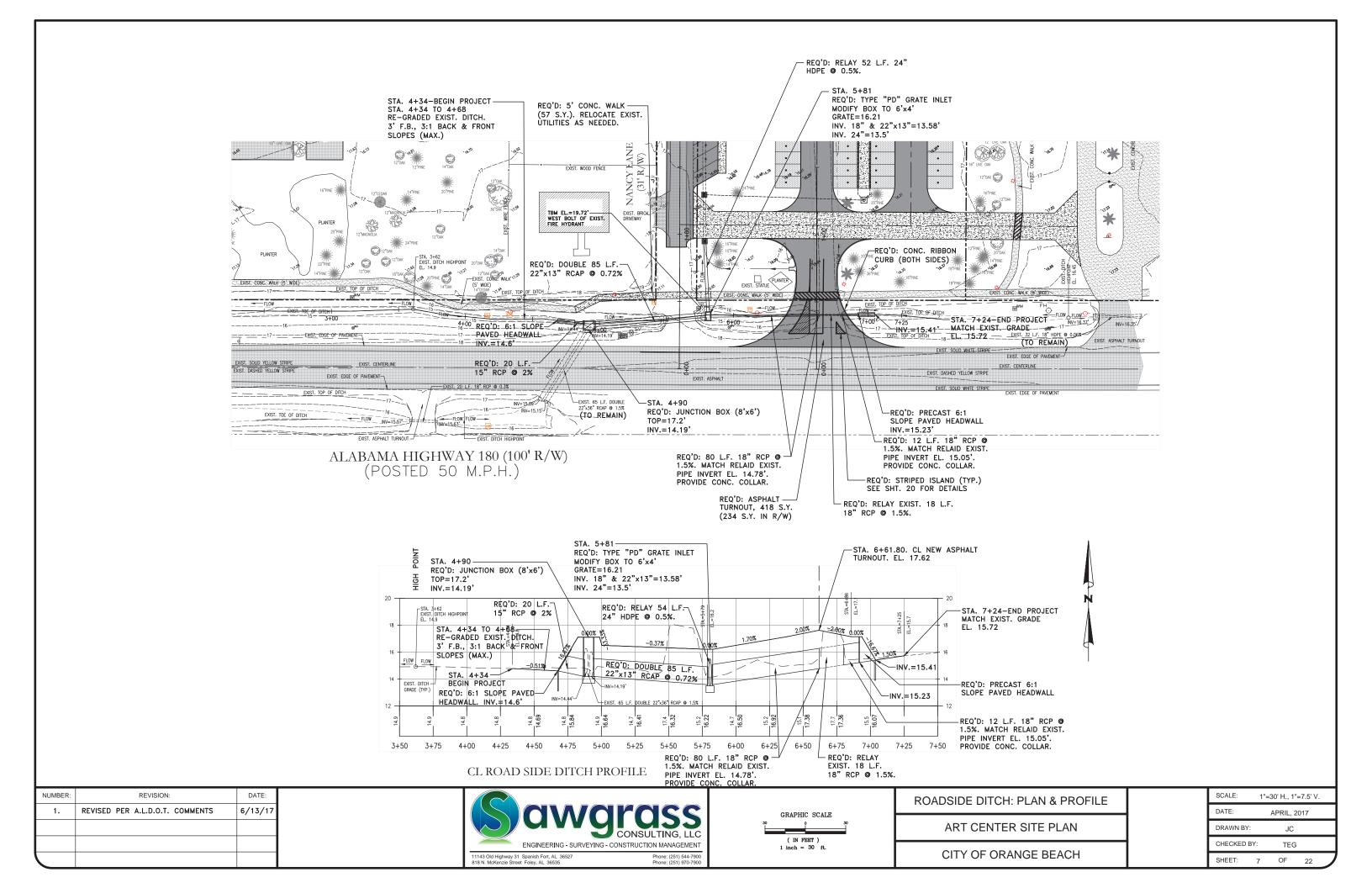
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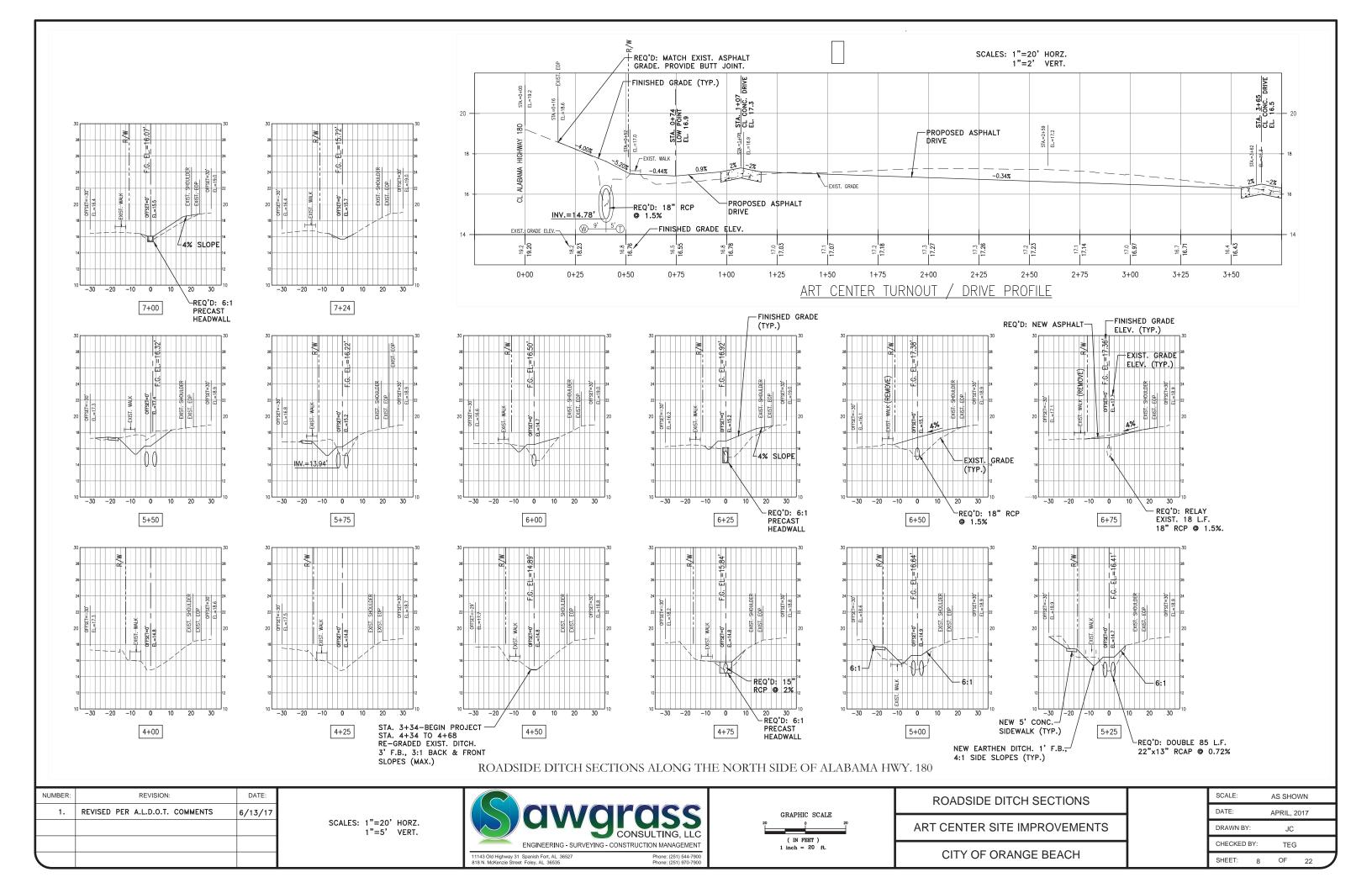
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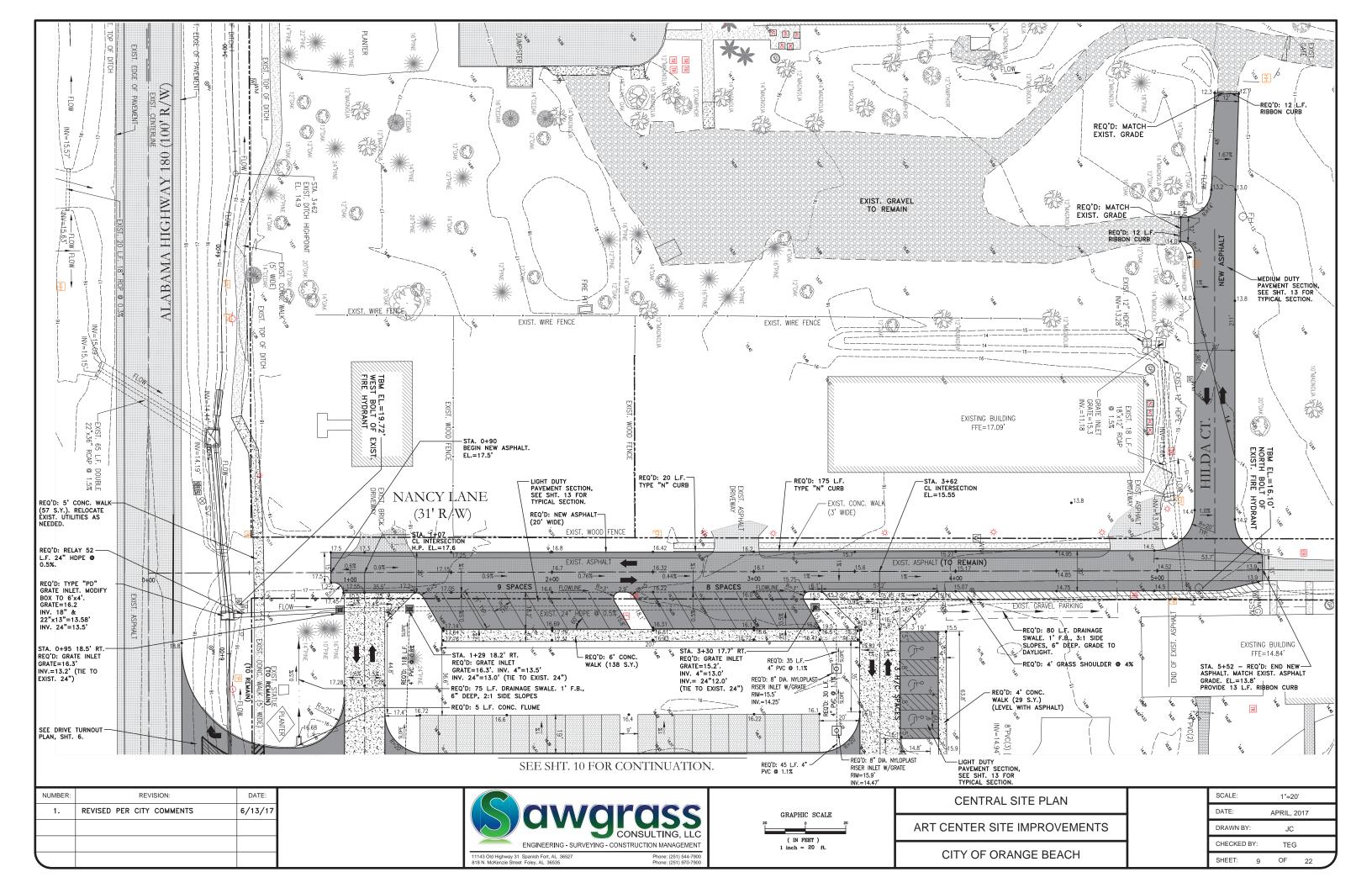
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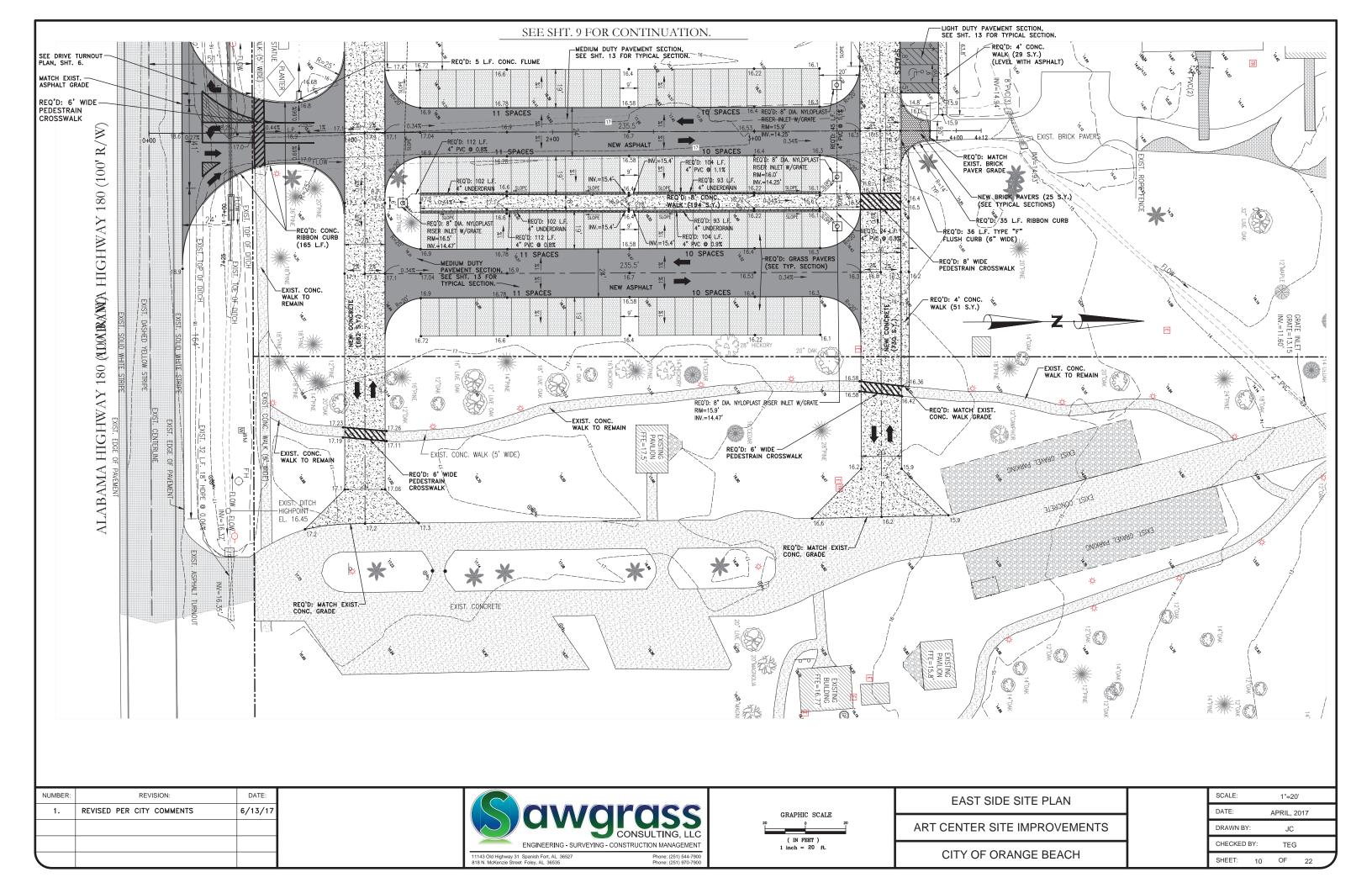


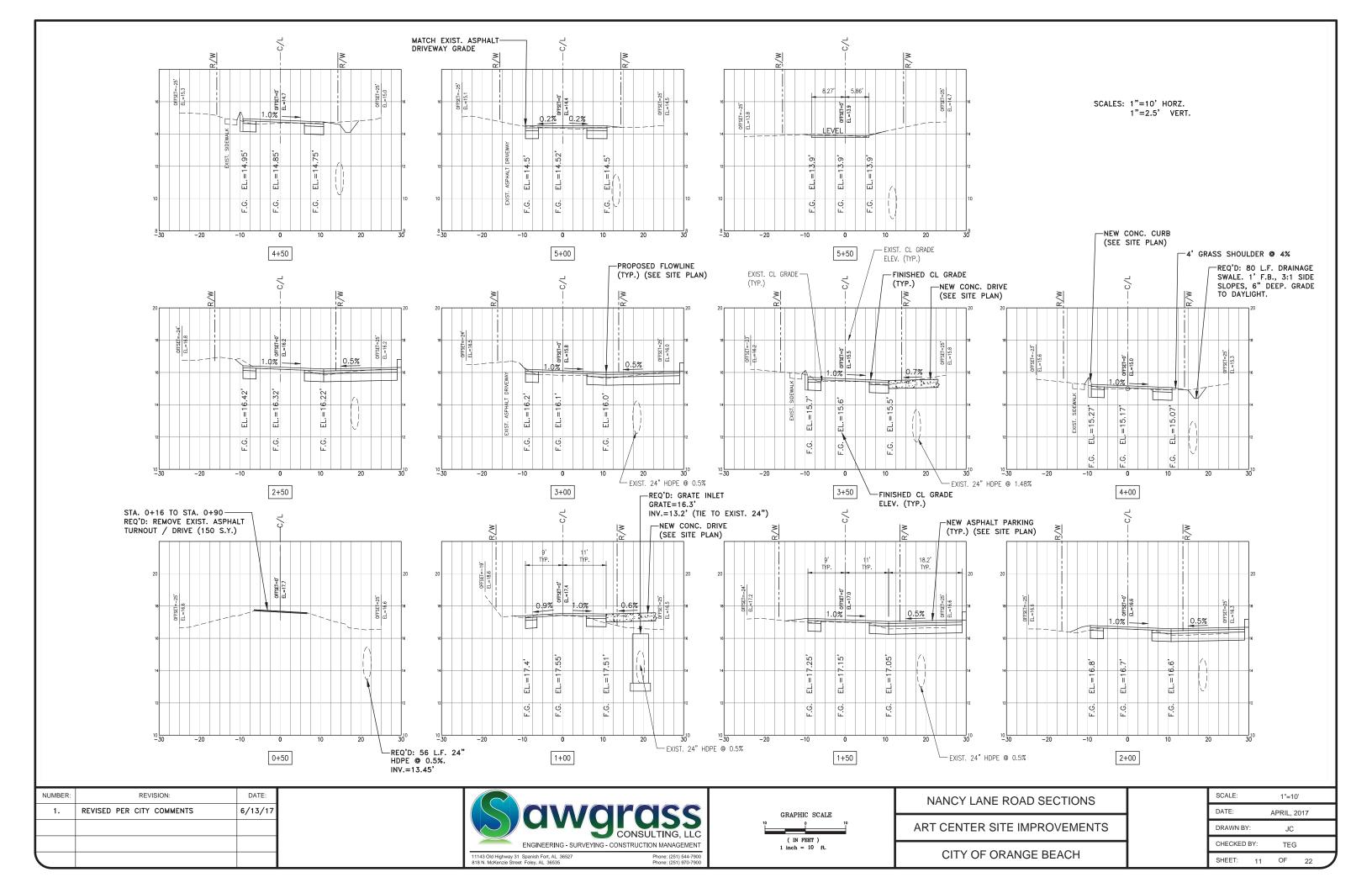


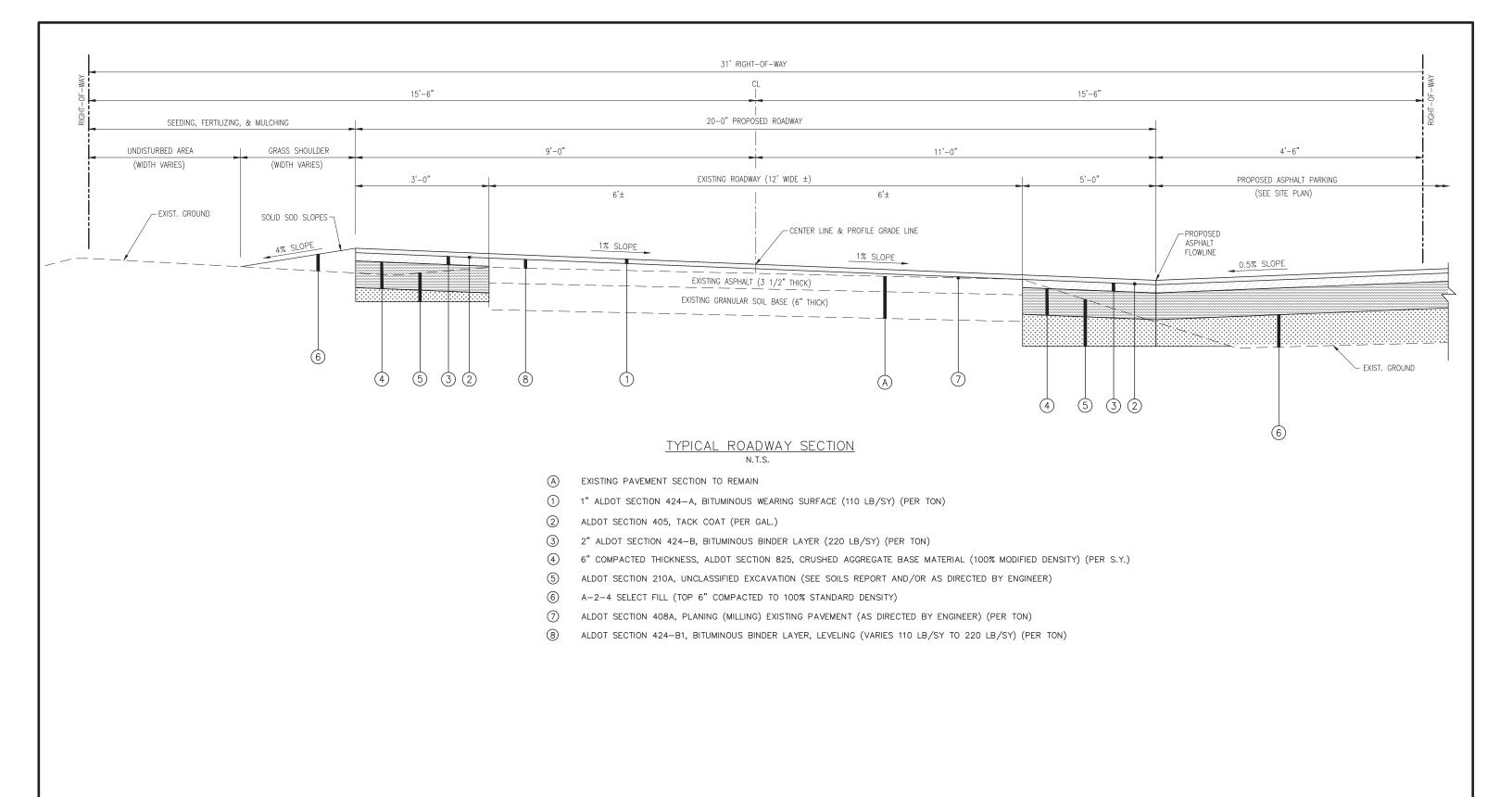












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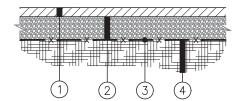


NANCY LANE - TYPICAL ROAD SECTION

ART CENTER SITE IMPROVEMENTS

CITY OF ORANGE BEACH

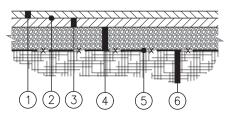
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## <u>LIGHT-DUTY PAVEMENT SECTION</u> (PARKING AREAS ONLY)

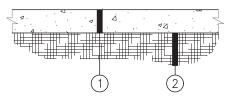
N T S

- 1. 1 1/2" ALDOT SECTION 424A, BITUMINOUS CONCRETE WEARING SURFACE (165 LB/SY)
- 2. 6" ALDOT SECTION 825, CRUSHED AGGREGATE BASE COURSE (COMPACTED TO 100% MODIFIED DENSITY)
- 3. SEPARATION FABRIC (TERRATEX GS OR APPROVED EQUAL)
- 4. 6" ALDOT SECTION 230 MODIFIED ROADBED (COMPACTED TO 100% STANDARD DENSITY)



MEDIUM-DUTY PAVEMENT SECTION

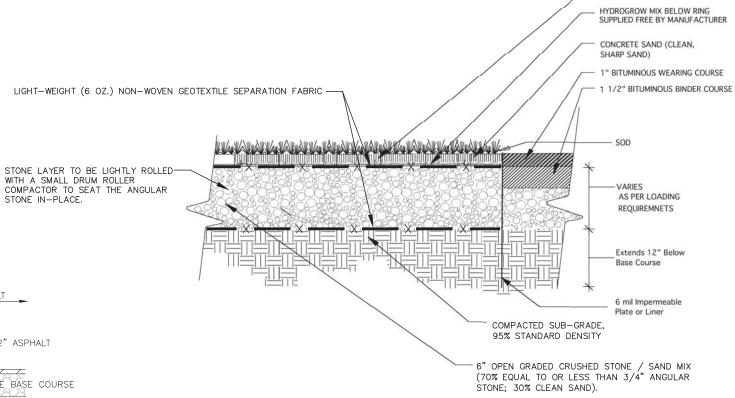
- 1. 1" ALDOT SECTION 424A, BITUMINOUS CONCRETE WEARING SURFACE (165 LB/SY)
- 2. ALDOT SECTION 405, TACK COAT
- 1 1/2" ALDOT SECTION 424B, BITUMINOUS BINDER LAYER (165 LB/SY)
- 4. 6" ALDOT SECTION 825, CRUSHED AGGREGATE BASE COURSE (COMPACTED TO 100% MODIFIED DENSITY)
- 5. SEPARATION FABRIC (TERRATEX GS OR APPROVED EQUAL)
- 6. 6" ALDOT SECTION 230 MODIFIED ROADBED (COMPACTED TO 100% STANDARD DENSITY)



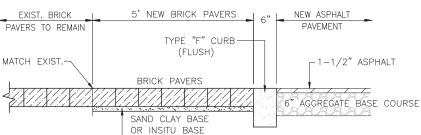
## CONCRETE PAVEMENT SECTION

- 1. 6" CONCRETE PAVEMENT (4,000 PSI COMPRESSIVE STRENGTH, 450 PSI FLEXURAL STRENGTH)
- COMPACT NATIVE SUB-GRADE OR STRUCTURAL FILL (TOP 12" COMPACTED TO 100% STANDARD DENSITY)

2" GRANULAR SAND-

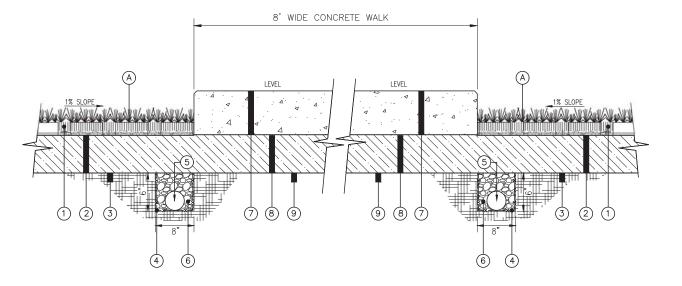


GRASSPAVE2 @ ASPHALT EDGE



BRICK PAVER TYPICAL

NOTE: ALL BEDDING AND BASE MATERIAL FOR SETTING BRICK PAVER SHALL BE A SUBSIDIARY OBLIGATION OF 999-A BRICK PAVERS.



GRASSPAVE2 / UNDERDRAIN / SIDEWALK SECTION

- A SOLID SOD BERMUDA
- GRASSPAVE2 POROUS PAVEMENT AS MANUFACTURED BY INVISIBLE STRUCTURES INC., OR APPROVED EQUAL WITH 1" OF WASHED CONCRETE SAND
- 2 SANDY GRAVEL BASE MIX, 70% EQUAL TO OR LESS THAN 3/4" ANGULAR STONE; 30% CLEAN SAND, 6" COMPACTED THICKNESS
- (3) COMPACTED SUB-GRADE (COMPACT TO 95% STANDARD DENSITY)
- FILTER CLOTH WRAP FULL PERIMETER OF UNDERDRAIN
- 5 4" DIA. PERFORATED PVC PIPE
- 6 NO. 57 STONE (DRAINAGE LAYER)
- ONCRETE SIDEWALK, 4,000 PSI, 6" THICK W/ NO. 5 BARS @ 12" E.W.
- (8) SANDY GRAVEL BASE MIX, 70% EQUAL TO OR LESS THAN 3/4" ANGULAR STONE; 30% CLEAN SAND, 6" COMPACTED THICKNESS
- (9) COMPACTED SUB-GRADE (COMPACT TO 95% STANDARD DENSITY)

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ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT

11143 Old Highway 31 Spanish Fort, AL 36527
18 N. McKenzie Street Foley, AL 36535

Phone: (251) 544-7900
Phone: (251) 970-7900

CONSTRUCTION DETAILS

ART CENTER SITE IMPROVEMENTS

CITY OF ORANGE BEACH

 SCALE:
 N.T.S.

 DATE:
 APRIL, 2017

 DRAWN BY:
 J.C.

 CHECKED BY:
 TEG

 SHEET:
 13
 OF
 22

GRASSPAVE2 SYSTEM

#### **Engineered Surface Drainage Products**

#### **GENERAL**

PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

#### MATERIALS

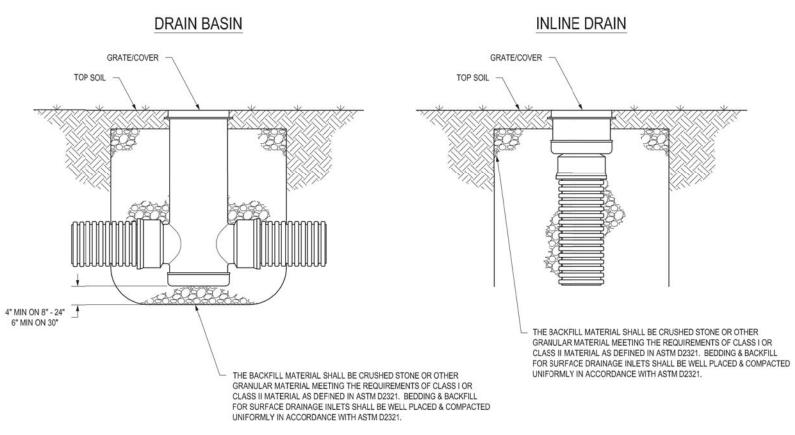
The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to <u>ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals</u>. The flexible elastomeric seals shall conform to <u>ASTM F477</u>. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to <u>ASTM D1784 cell class 12454</u>.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for sizes 8", 10", 12", 15", 18", 24" and 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

#### INSTALLATION

The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1 or class 2 material as defined in <u>ASTM D2321</u>. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with <u>ASTM D2321</u>. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to <u>ASTM D2321</u> guidelines.

#### NON TRAFFIC INSTALLATION



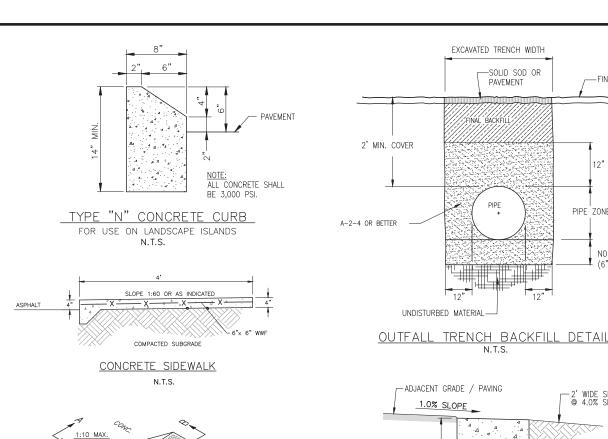
NYLOPLAST DRAINAGE DETAILS & SPECIFICATIONS
N.T.S.

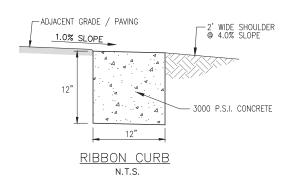
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CONSTRUCTION DETAILS	
ART CENTER SITE IMPROVEMENTS	
CITY OF ORANGE BEACH	

SCALE:		N.T.S	S.	
DATE:		APRIL, 2	2017	
DRAWN BY	<b>/</b> :	J.C.		
CHECKED	BY:	TEG	i	
SHEET:	14	OF	22	





N.T.S.

UNDISTURBED MATERIAL

EXCAVATED TRENCH WIDTH

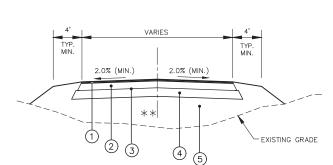
-SOLID SOD OR

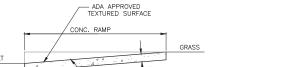
PAVEMENT

-FINISHED GRADE

NO. 467 STONE

(6" THICK)





CURB

TRANSITION

BACK OF SIDEWALK

SECTION B-B

1:20 MAX.

### SIDEWALK HANDICAP RAMP

ISOMETRIC VIEW

CURB

ELEVATION A-A

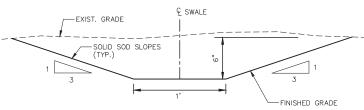
CURB TRANSITION

- 1. RAMPS ARE DESIGNED TO THE UNIFORM FEDERAL ACCESSIBILITY STANDARDS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT.
- 2. RAMPS SHALL HAVE A TACTILE SURFACE, TEXTURED TO A DEPTH NOT EXCEEDING 1/8" BY USE OF TAMP OR ROLLER.

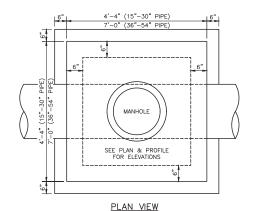
- SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, 1/2" MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D, APPROXIMATELY 135 POUNDS PER SQUARE YARD.
- 2) SUPERPAVE BITUMINOUS CONCRETE UPPER BINDER LAYER, 1"
  MAXIMUM AGGREGATE SIZE MIX, ESAL RANGE C/D, APPROXIMATELY
  330 POUNDS PER SQUARE YARD.
- 3 BITUMINOUS TREATMENT A, ITEM: 401A-000
- 4 CRUSHED AGGREGATE BASE COURSE, TYPE B, PLANT MIXED, 6" COMPACTED THICKNESS, ITEM: 301A-012
- 5 BORROW EXCAVATION [(A-2-4(0) OR A-4(0)], ITEM: 210D-012

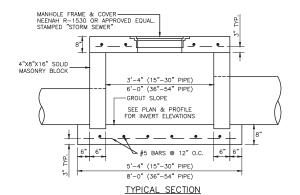
\*\* NOTE: COMPACT TO 100% OF AASHTO T-99

TYPICAL DRIVE SECTION TO R.O.W.



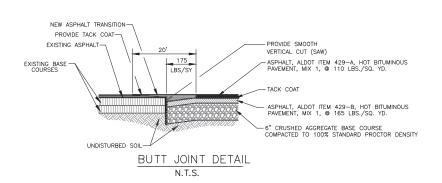
#### DRAINAGE SWALE DETAIL N.T.S.

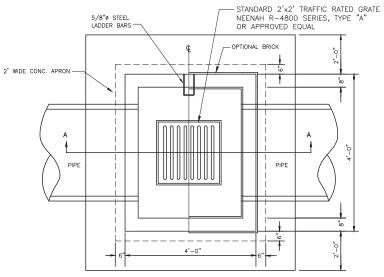


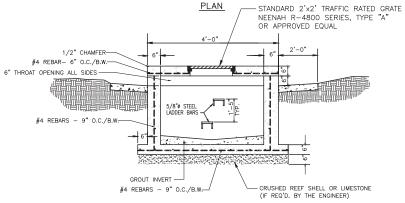


#### JUNCTION BOX DETAIL N.T.S.

NOTE: STEPS REQUIRED FOR BOX HEIGHTS 4'-0" AND GREATER.

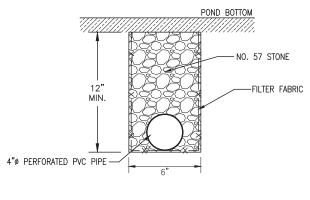






GRATE INLET DETAIL W/ CONCRETE APRON N.T.S.

SECTION "A-A" ELEVATION



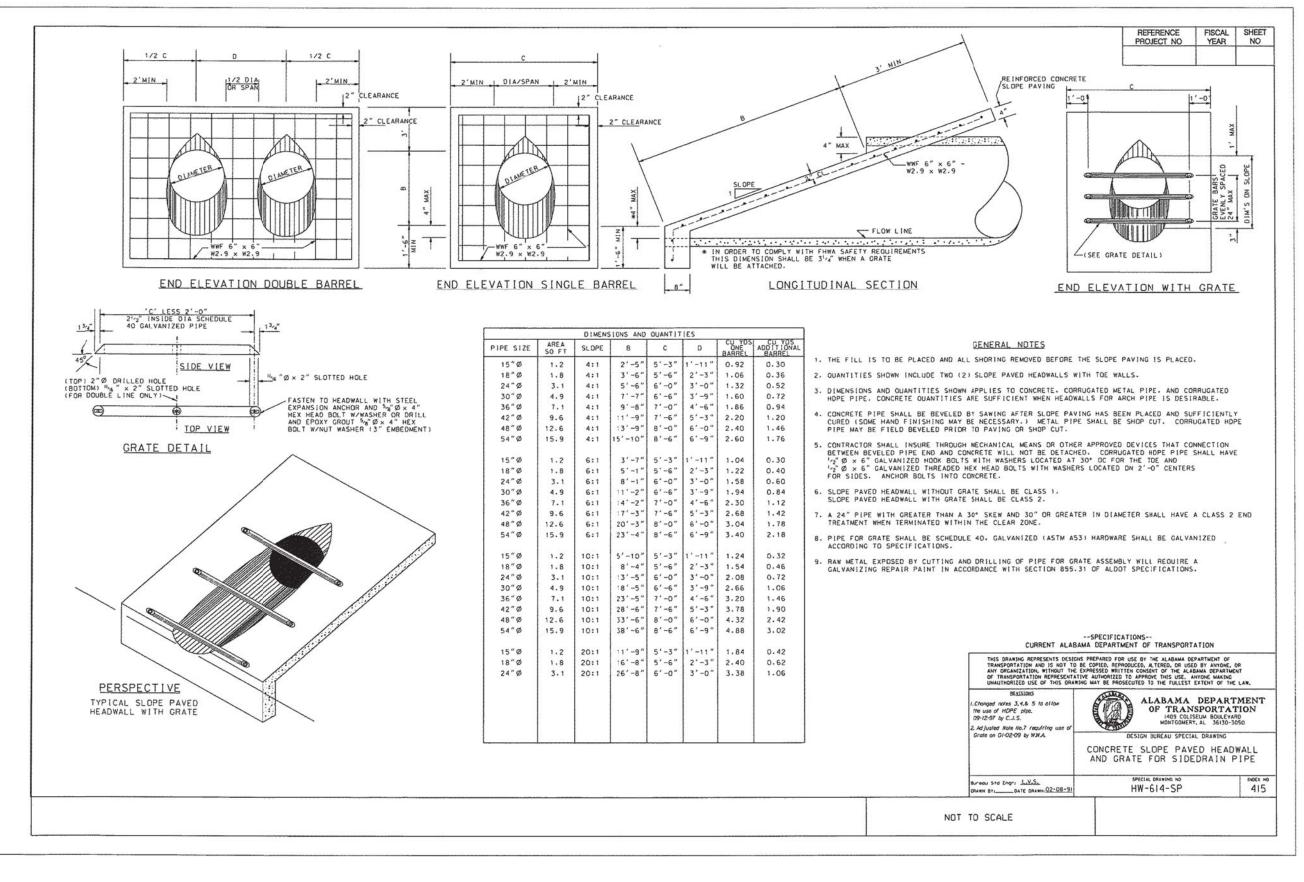
UNDERDRAIN/TRENCH DETAIL N.T.S.

NUMBER:	REVISION:	DATE:

ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT 11143 Old Highway 31 Spanish Fort, AL 36527 818 N. McKenzie Street Foley, AL 36535 Phone: (251) 544-7900 Phone: (251) 970-7900

CONSTRUCTION DETAILS ART CENTER SITE IMPROVEMENTS CITY OF ORANGE BEACH

SCALE:		N.T.S	S.	
DATE:		APRIL, 2	2017	
DRAWN BY:		J.C.		
CHECKED BY:		TEG	;	
SHEET:	15	OF	22	フ



NUMBER:	REVISION:	DATE:	

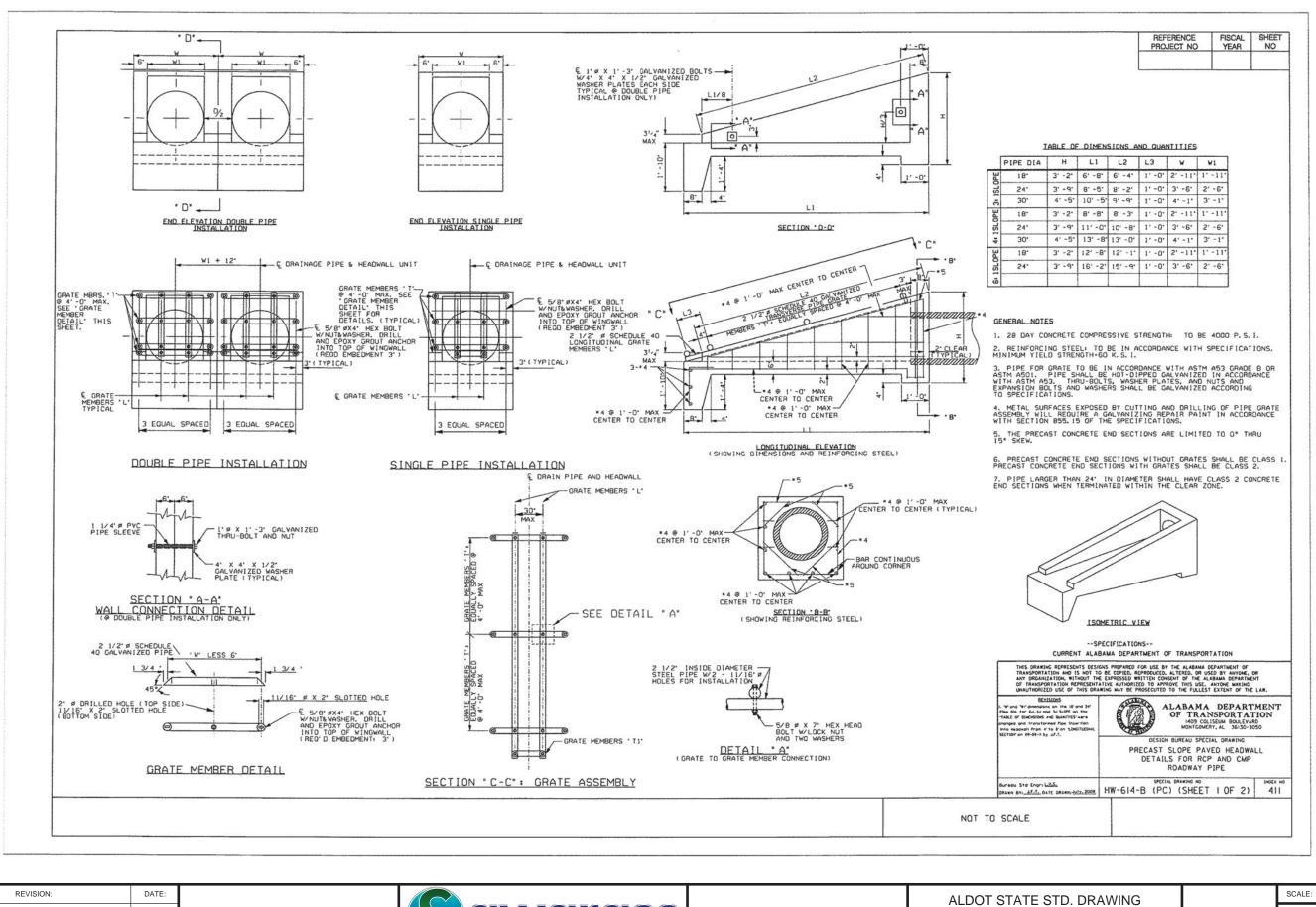


ALDOT STATE STD. DRAWING

ART CENTER SITE IMPROVEMENTS

CITY OF ORANGE BEACH

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CHECKED BY:		TEG	;	
SHEET:	16	OF	22	



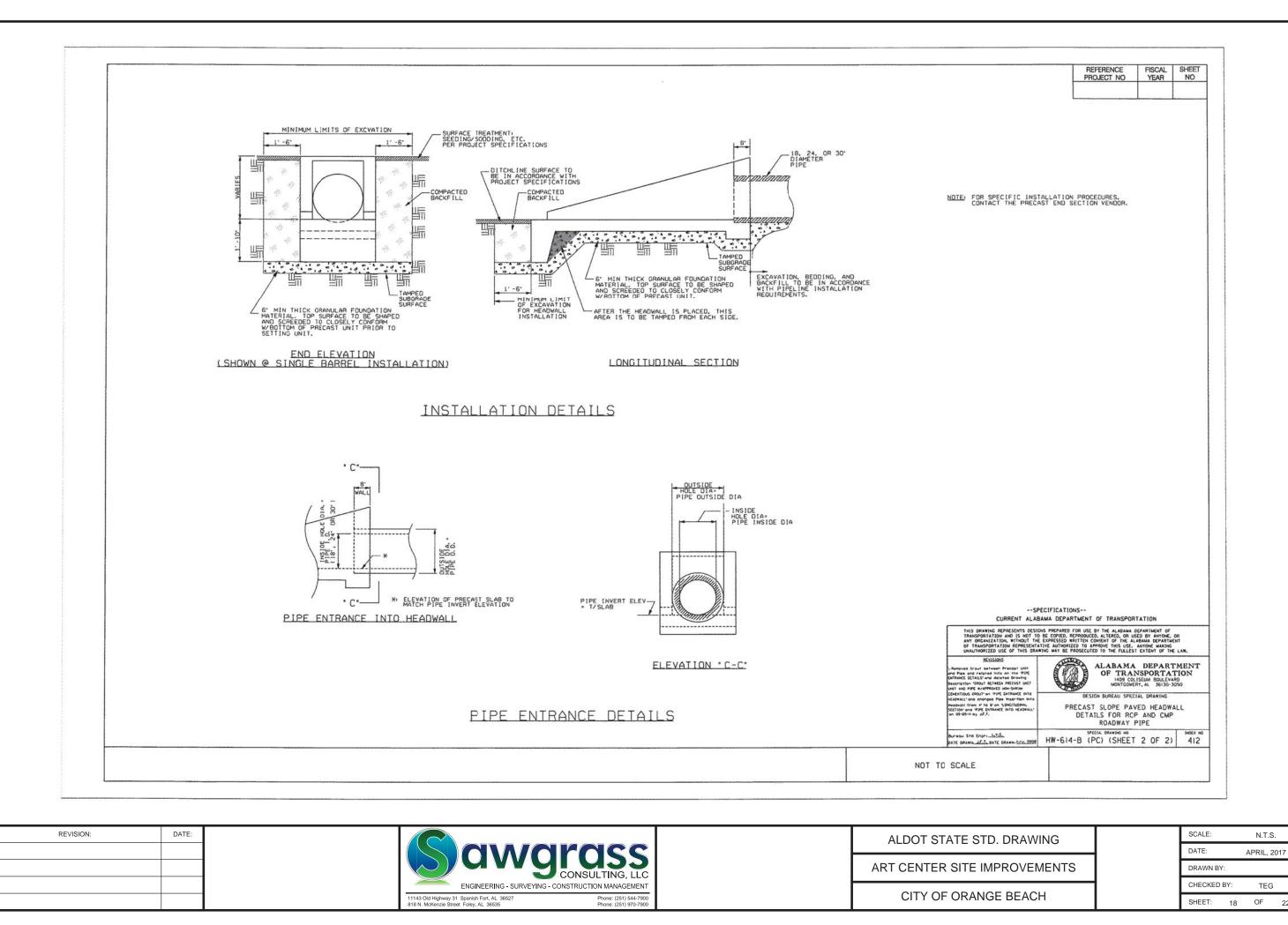
NUMBER:	REVISION:	DATE:



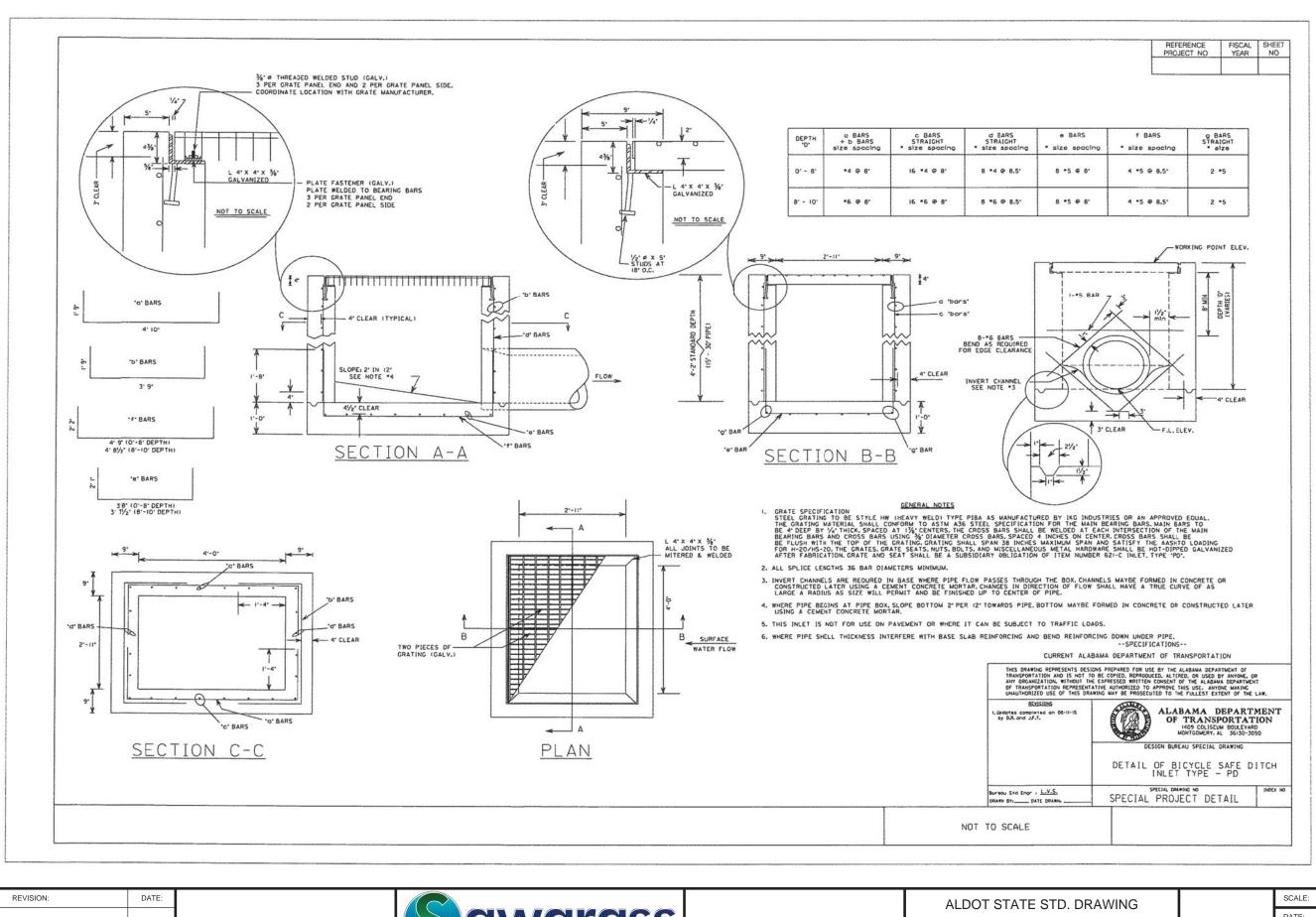
ART CENTER SITE IMPROVEMENTS

CITY OF ORANGE BEACH

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NUMBER

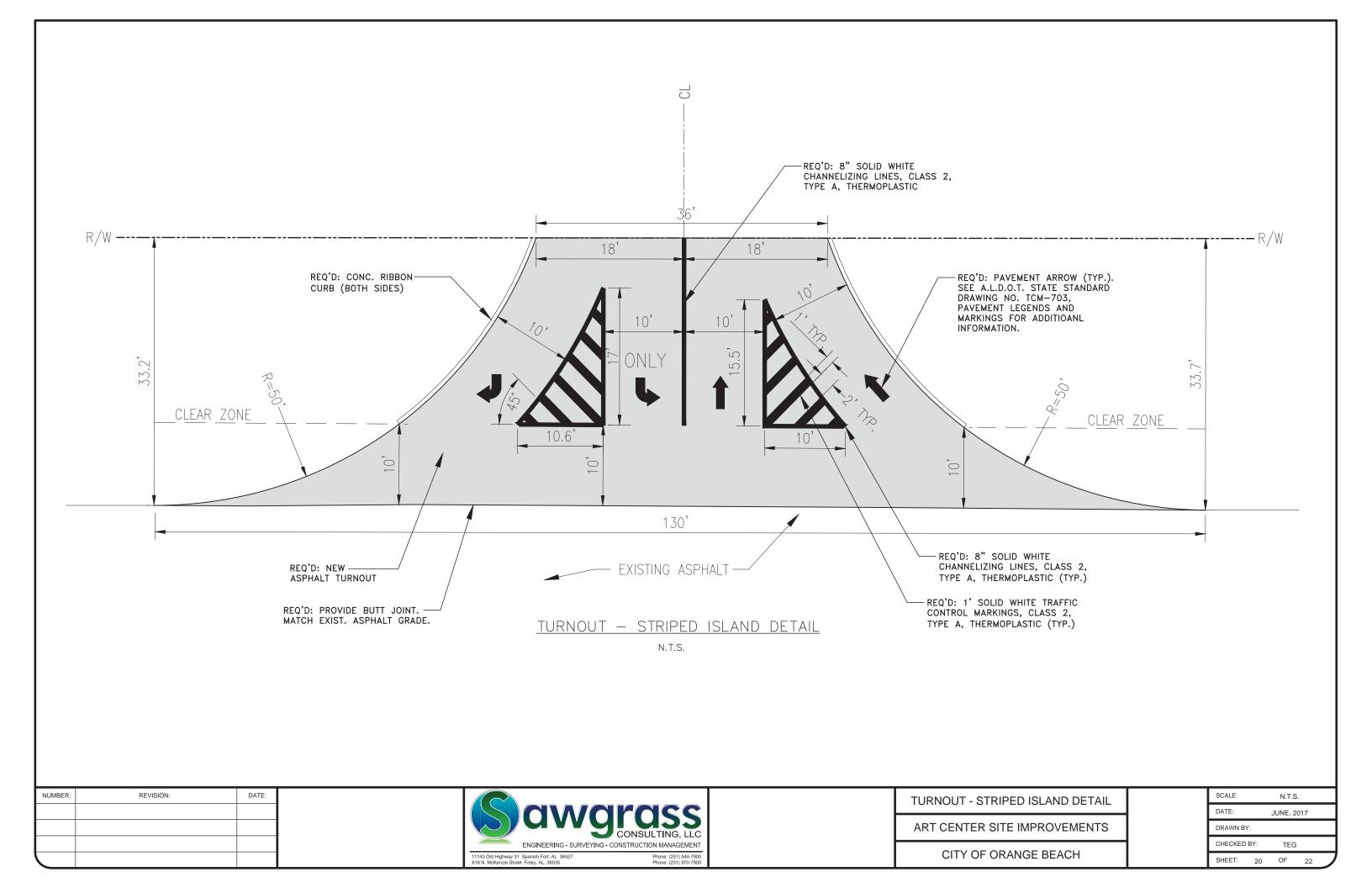


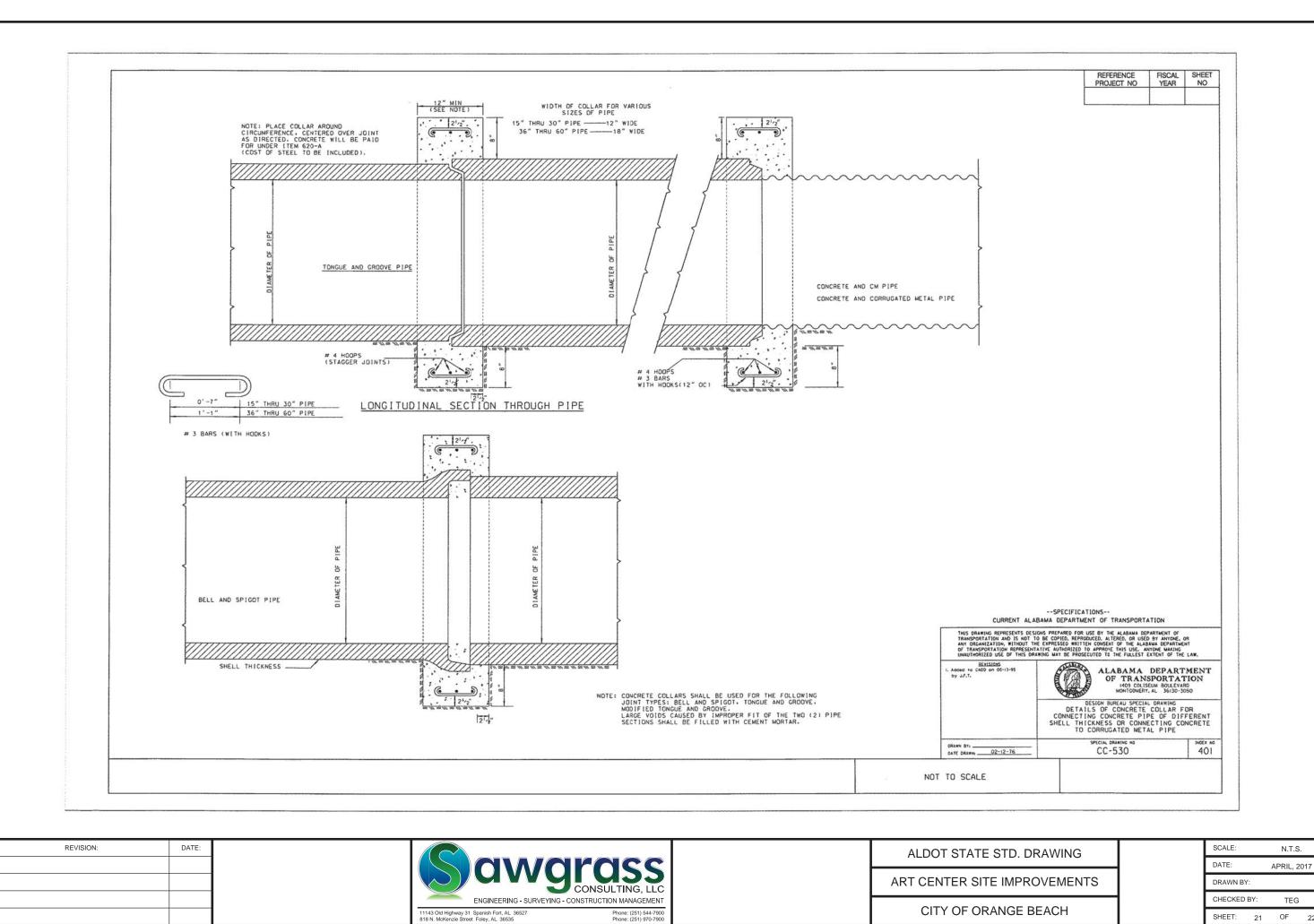
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			Maracs
			CONSULTING, LLC
			ENGINEERING - SURVEYING - CONSTRUCTION MANAGEMENT
			11143 Old Highway 31 Spanish Fort, AL 36527         Phone: (251) 544-7900           818 N. McKenzie Street Foley, AL 36535         Phone: (251) 970-7900

ART CENTER SITE IMPROVEMENTS

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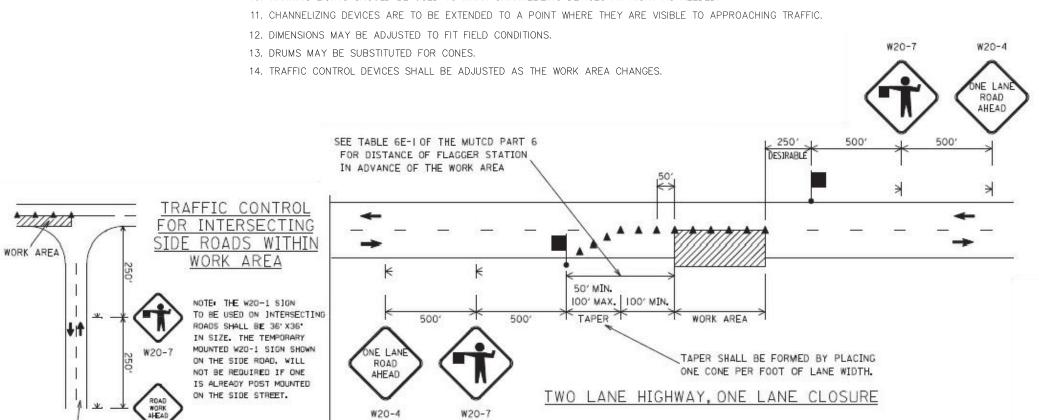




NUMBER

## TRAFFIC CONTROL DEVICES:

- 1. TRAFFIC CONTROL DEVICES SHOWN ARE CONSIDERED TO BE THE MINIMUM REQUIRED. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ADDITIONAL TRAFFIC CONTROL DEVICES OTHER THAN THOSE SHOWN WHEN ROADWAY & TRAFFIC CONDITIONS WARRANT.
- 2. FLAGGERS SHALL BE IN THE SIGHT OF EACH OTHER OR HAVE DIRECT COMMUNICATIONS AT ALL TIMES. FLAGGER STATION LOCATIONS MAY BE VARIED FROM THOSE SHOWN. FLAGGERS SHALL WEAR FLUORESCENT ORANGE VEST & HATS AT ALL TIMES.
- 3. ALL TRAFFIC CONTROL DEVICES SHALL BE REMOVED AT THE COMPLETION OF THE WORK WHEN THE WORK AREA IS OPEN TO TRAFFIC.
- 4. ALL TRAFFIC CONTROL DEVICES THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME SHALL BE COVERED OR REMOVED.
- 5. ALL VEHICLES, EQUIPMENT & WORKERS (EXCLUDING FLAGGERS) AND THEIR ACTIVITIES SHOULD BE RESTRICTED TO ONE SIDE OF THE ROADWAY.
- 6. ALL PERMANENT SIGNS SHALL BE POST MOUNTED.
- 7. ANY OBSTACLES OR HAZARDS WITHIN THE WORK AREA SHALL BE MARKED IN ACCORDANCE WITH MUTCD PART VI.
- 8. PARKED VEHICLES SHALL NOT BLOCK THE LINE OF SIGHT TO NORMAL SIGNS LOCATIONS.
- 9. THE SPACING BETWEEN CHANNELIZING DEVICES IN A WORK AREA SHALL BE 40' MAXIMUM.
- 10. WARNING LIGHTS SHOULD BE USED TO MARK CHANNELIZING DEVICES AT NIGHT AS NEEDED.



NUMBER:	REVISION:	DATE:
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INTERSECTING SIDE ROAD

W20-1



TRAFFIC CONTROL PLAN	
ART CENTER SITE IMPROVEMENTS	
CITY OF ORANGE BEACH	

	SCALE:		N.T.S	S.	
	DATE:		APRIL, 2	2017	
	DRAWN BY: CHECKED BY:		JC		
			TEG		
	SHEET:	22	OF	22	