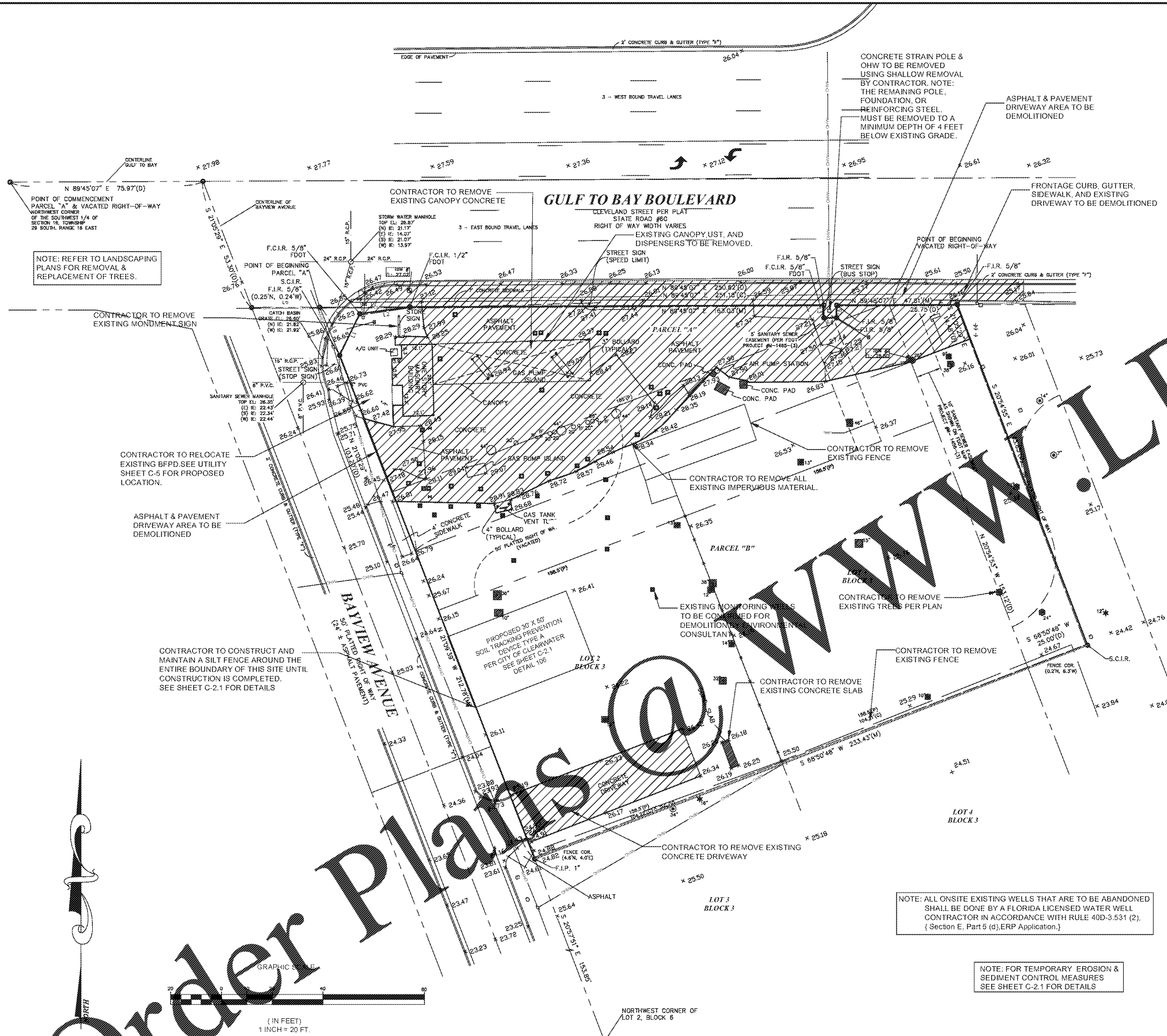


THIS DRAWING IS THE PROPERTY OF AEC SERVICES, INC. AND HAS BEEN PREPARED SPECIFICALLY FOR THE OWNER OF THIS PROJECT. IT MAY NOT BE USED FOR ANY OTHER PURPOSE, LOCATION, OR OWNER.



Order Plans @



NOTE: ALL ONSITE EXISTING WELLS THAT ARE TO BE ABANDONED SHALL BE DONE BY A FLORIDA LICENSED WATER WELL CONTRACTOR IN ACCORDANCE WITH RULE 40D-3.531 (2), (Section E, Part 5 (d); ERP Application.)

NOTE: FOR TEMPORARY EROSION & SEDIMENT CONTROL MEASURES SEE SHEET C-2.1 FOR DETAILS

Always call 811 two full business days before you dig to have underground utilities located and marked.
Sunshino811.com

SEQUENCE OF MAJOR EVENTS:	
1.	INSTALL STAKED SILT FENCE AS INDICATED ON THE CONSTRUCTION PLANS.
2.	CLEAR AND GRUB POND TO BE USED AS SEDIMENTATION BASIN.
3.	EXCAVATE POND FOR SEDIMENT TRAPS FOR SITE RUNOFFS.
4.	BEGIN BUILDING CONSTRUCTION.
5.	CONSTRUCT DIVERSION SWALES AROUND PERIMETER OF SITE TO POND, AS NECESSARY.
6.	INSTALL STORM SEWER SYSTEM AND ITS SILTATION PROTECTION, UTILITIES AND OUT FALL STRUCTURE.
7.	EXCAVATE THE REMAINDER OF THE POND INCLUDING REMOVAL OF SILT DEPOSITS.
8.	STABILIZE PARKING LOT.
9.	CONSTRUCT CURBS, GUTTERS AND ASPHALT.
10.	COMPLETE FINAL SITE GRADING.
11.	INSTALL PERMANENT LANDSCAPING ON SITE. REPAIR ANY WASHED OUT AREAS.
12.	WHEN CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE EROSION PROTECTION DEVICES AND PLACE SOO AS NECESSARY.
STABILIZATION PRACTICES	
WIND EROSION STABILIZATION - THE CONTRACTOR SHALL DENOTE ONLY AREAS WHERE IT IS EXPECTED TO BE GRADED OR ALTERED WITHIN TWO (2) YEAR TIME FRAME. ALL PERVIOUS AREAS OF THE SITE INCLUDED IN GRADING THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE GRADED AND PREPARED A COMBINATION OF SOO AND/OR SEEDING AND MULCHING. PAD AREAS WITHIN FUTURE UNITS WHERE EARTHWORK IS COMPLETED SHALL BE COMPLETELY SEEDING AND MULCHED. AREAS WHERE CONSTRUCTION OPERATIONS WILL BE CONTINUOUS, FUGITIVE DUST SHALL BE MANAGED BY APPLYING WATER SPRAY TO SATURATE THE SURFACE SOILS ON A DAILY BASIS (OR AS NEEDED) TO MAINTAIN MINIMAL DUST. TRANSPORT, FUGITIVE DUST SHALL BE CONTROLLED CONTINUOUSLY AND ADDITIONAL MEASURES MAY NEED TO BE TAKEN TO CONTROL OFF SITE TRANSPORT OF UNACCEPTABLE LEVELS OF DUST.	
TEMPORARY STABILIZATION - TOP OF SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES SHALL BE STABILIZED WITH SOO AND MULCH. MULCH SHALL BE APPLIED WITHIN 14 DAYS FROM THE END OF CONSTRUCTION ACTIVITY. MULCH SHALL BE A MIXTURE OF 20 PARTS OF BERBERIS AND 80 PARTS OF PENSACOLA BAHIA. THE SEPARATE TYPES OF SOO USED SHALL BE THOROUGHLY DRY MIXED IMMEDIATELY BEFORE SOWING. SEED WHICH HAS BECOME WET SHALL NOT BE USED. THE MULCH MATERIAL USED SHALL NORMALLY BE DRY MULCH. DRY MULCH SHALL BE STRAW OR HAY CONSISTING OF OAT, RYE OR WHEAT STRAW, OR OF PANGOLA, PEANUT, COASTAL BERMUDA OR PANAMA GRASS HAY. ONLY UNDERGRADED MULCH WHICH CAN BE READILY PUT INTO THE SOIL SHALL BE USED. MULCH SHALL BE APPLIED TO THE SITE WHICH SHALL BE TEMPORARILY STABILIZED BY APPLYING STABILIZATION AND SOO.	
PERMANENT STABILIZATION - DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY PERMANENTLY CEASES SHALL BE STABILIZED WITH SOO NO LATER THAN 14 DAYS AFTER LAST CONSTRUCTION ACTIVITY.	
EROSION PROTECTION	
DURING THE CONSTRUCTION PHASES, APPROPRIATE PRACTICES INCLUDING BUT NOT LIMITED TO SILT FENCE BARRIERS, HAY BALES AND WATERING OR OTHER MEASURES NECESSARY WILL BE IMPLEMENTED TO CONTROL EROSION.	
SEDIMENT BASINS - THE STORM WATER MANAGEMENT PLAN (SEE SHEET C-2.1) SHALL SERVE AS SEDIMENT BASINS DURING THE CONSTRUCTION PERIOD. AT THE CONTRACTOR'S DISCRETION, THE SEDIMENT BASIN SHALL BE CONSTRUCTED TO THE FULL CROSS-SECTION OR A MINIMUM OF 2- FEET BELOW EXISTING GROUND TO ALLOW THE SOO TO BE COLLECTED AND REMOVED PRIOR TO COMPLETION OF THE GRADING.	
STORM WATER MANAGEMENT	
STORM WATER DRAINAGE SHALL BE PROVIDED BY AN INVERTED MAN PAVEMENT, STORM WATER AND CATCH BASIN SYSTEM FOR THE DEVELOPED AREAS. THE AREAS DEVELOPED SHALL BE GRADED TO A MINIMUM OF 1/4" PER FOOT AND HAVE PERMANENT SEEDING OR PLANTINGS. WHEN CONSTRUCTION IS COMPLETE, THE STORM WATER DRAINAGE SHALL BE MAINTAINED WITH A TEMPORARY SEEDING OR PLANTINGS DURING THE CONSTRUCTION PROCESS. ANY ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE SEDIMENT BASINS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONSTRUCT ALL RETENTION/SEDIMENTATION AREAS IN ACCORDANCE WITH APPROVED CONSTRUCTION PLANS.	
WASTE DISPOSAL	
ALL WASTE MATERIALS SHALL BE COLLECTED AND CONTAINED IN A CONTROLLED AREA PURSUANT TO STATE AND LOCAL SOLID WASTE REGULATIONS. ALL WASTE MATERIALS GENERATED FROM CONSTRUCTION SHALL BE REMOVED FROM THE SITE AND DISPOSED OF AT AN APPROVED DISPOSAL SITE. WASTE MATERIALS SHALL BE BURNED ON SITE. ALL PERSONNEL SHALL BE ADVISED OF THE CORRECT PROCEDURE FOR WASTE DISPOSAL. WASTE DISPOSAL PRACTICES SHALL BE POSTED IN THE ON SITE OFFICE TRAILER AND THE CONSTRUCTION MANAGER SHALL BE RESPONSIBLE FOR ENSURING THAT THESE PROCEDURES ARE FOLLOWED.	
HAZARDOUS WASTE - ENCOUNTERED, ALL WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY STATE AND LOCAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.	
SANITARY WASTE - ALL SANITARY WASTE SHALL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE AND LOCAL CODES AND REGULATIONS.	
OFF SITE VEHICLE TRACKING	
STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO HELP REDUCE OFF SITE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS SHALL BE CLEANED AS NEEDED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE SITE SHALL BE COVERED WITH A TARPULIN AT ALL TIMES.	
TIMING OF CONTROL MEASURES	
AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, STAKED SILT FENCE, STABILIZED CONSTRUCTION ENTRANCES AND SEDIMENT BASINS SHALL BE CONSTRUCTED PRIOR TO CLEANING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS SHALL BE STABILIZED WITH A TEMPORARY SEEDING OR PLANTINGS. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY THAT AREA SHALL BE STABILIZED WITH PERMANENT SOO. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT SHALL BE REMOVED FROM THE TRAPS AND THE STAKED SILT FENCES SHALL BE REMOVED.	
EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES	
THESE ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT SHALL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROL:	
1. LESS THAN ONE HALF OF THE SITE SHALL BE DENuded AT A TIME.	
2. ALL CONTROL MEASURES SHALL BE INSPECTED AT THE END OF EACH WORK DAY AND FOLLOWING ANY STORM EVENT OF 0.5-INCHES OR GREATER BY A CONTRACTOR'S REPRESENTATIVE.	
3. ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.	
4. BUILT UP SEDIMENT SHALL BE REMOVED FROM SILT FENCES WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE SILT FENCE.	
5. SILT FENCE SHALL BE INSPECTED REGULARLY FOR DEPTH OF SEDIMENT AND TEARS TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE. POSTS AND TOE RINGS SHALL BE CHECKED FOR THE FENCE POSTS TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE.	
6. THE SEDIMENT BASINS SHALL BE INSPECTED, DEPTH OF SEDIMENT AND BUILD UP OF SEDIMENT SHALL BE REMOVED WHEN IT REACHES 10% OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.	
7. TEMPORARY AND PERMANENT GRASSING AND MULCHING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS AND HEALTHY GROWTH.	
8. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION BY THE CONTRACTOR AND SHALL BE KEPT IN AN ACTIVE LOG READILY AVAILABLE AT THE JOB SITE.	
9. EITHER THE SITE SUPERINTENDENT OR HIS DESIGNEE SHALL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE, REPAIR ACTIVITIES AND COMPLETING THE INSPECTION AND MAINTENANCE REPORT.	
10. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY SHALL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ON SITE IN GOOD WORKING ORDER.	
NON-STORM WATER DISCHARGE	
IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:	
1. WATER FROM WATER LINE FLUSHING.	
2. PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).	
3. UNCONTAMINATED GROUNDWATER (FROM DEWATERING EXCAVATION).	
ALL NON-STORM WATER DISCHARGES SHALL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE.	
NON-STORM WATER DISCHARGE	
IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES SHALL NOT OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:	
CONCRETE PAINTS (ENAMEL AND LATEX) METAL STUDS CLEANING SOLVENTS WOOD FERTILIZERS FERTILIZER-BASED PRODUCTS AND FUELS MASONRY BLOCK ROOFING SHINGLES	
SPILL PREVENTION	
THE FOLLOWING ARE THE MATERIAL HANDLING PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.	
GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON SITE DURING THE CONSTRUCTION PROJECT. AN EFFORT SHALL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO COMPLETE THE PROJECT. ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN TIGHTLY SEALED CONTAINERS AND IF POSSIBLE, UNDER A ROOF OR OTHER CONTAINED ENCLOSURE. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL MANUFACTURERS LABELED CONTAINERS. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER. WISCONSIN PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ALL ASPHALT SUBSTANCES USED ON SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.	
HAZARDOUS PRODUCTS: THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS. PRODUCTS SHALL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT REUSABLE. IF ORIGINAL CONTAINERS ARE NOT REUSABLE, ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED. THEY CONTAIN IMPORTANT PRODUCT INFORMATION. IF SURPLUS PRODUCTS MUST BE DISPOSED OF, MANUFACTURERS OR LOCAL AND STATE RECOMMENDED METHODS OF PROPER DISPOSAL SHALL BE FOLLOWED.	
PETROLEUM PRODUCTS: ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ALL ASPHALT SUBSTANCES USED ON SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.	
FERTILIZERS: FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNT RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. FERTILIZER SHALL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.	
PAINTS: ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM BUT SHALL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS INSTRUCTIONS OR STATE AND LOCAL REGULATIONS.	
CONCRETE BRICKS: DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER IS STRICTLY PROHIBITED. HARD DEBRIS SHALL BE DISPOSED OF BY CONTRACTOR UPON COMPLETION OF THE PROJECT.	
SPILL CONTROL PRACTICES	
IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: MANUFACTURERS RECOMMENDED METHODS FOR SPILL CLEAN UP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEAN UP SUPPLIES. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEAN UP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTIE, UTILITY, SAND, SHAMPOO AND PLASTIC AND METAL TRASH CONTAINERS. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY. THE SPILL SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH HAZARDOUS SUBSTANCE. SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE. THE SPILL PREVENTION PLAN SHALL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM OCCURRING AND THE CLEAN UP PROCEDURES FOR FUTURE USE. A DESCRIPTION OF THE SPILL, ITS CAUSE AND THE CLEAN UP MEASURES SHALL ALSO BE INCLUDED. THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEAN UP COORDINATOR. HE OR SHE SHALL DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEAN UP TRAINING. THESE INDIVIDUALS SHALL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEAN UP. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL PREVENTION AND CLEAN UP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. EQUIPMENT AND MATERIALS SHALL INCLUDE, BUT NOT BE LIMITED TO, BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTIE, UTILITY, SAND, SHAMPOO AND PLASTIC AND METAL TRASH CONTAINERS.	

GIANT OIL INC.
1806 N. FRANKLIN STREET
TAMPA, FLORIDA 33602

BP STATION
3009 GULF TO BAY BLVD.
CLEARWATER, FLORIDA 34619

CUSTOMER: GIANT OIL INC.
SITE ADDRESS: BP STATION

ENGINEER OF RECORD:
AEC Services, Inc.
RON FAIR, P.E.
FL # 50738 License No. 9277 QB #001445
www.aecservicesinc.com

JOB NO. 0016172	DWG NAME CIVIL	XREF NAME NONE	SCALE 1"=20'-0"	DATE 7/8/18	DRAWN BY PAZ	CHECKED GEP	APPROVAL RAF
REVISIONS							

DEMO PLAN

C-2