

EROSION CONTROL NOTES

1. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN A LAND DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UP-SLOPE LAND DISTURBANCE TAKES PLACE.
2. ALL SEDIMENT CONTROL MEASURES ARE TO BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION AND BE CONSTRUCTED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL ON BALANCE OF SITE. PERIMETER SEDIMENT BARRIERS SHALL BE DISTURBED TO PREVENT SEDIMENT OR TRASH FROM FLOWING OR FLOATING ON TO ADJACENT PROPERTIES.
3. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN UNDISTURBED FOR LONGER THAN 30 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT UNDISTURBED FOR MORE THAN ONE YEAR.
4. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES SHALL BE STABILIZED, COVERED OR CONTAINED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
5. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED.
6. AFTER ANY SIGNIFICANT RAINFALL (1/2" OR GREATER) SEDIMENT CONTROL STRUCTURES WILL BE INSPECTED FOR INTEGRITY. ANY DAMAGED STRUCTURES SHALL BE CORRECTED IMMEDIATELY.
7. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, SLOPE DRAIN APPROVED CONTROL.
8. SEDIMENT WILL BE PREVENTED FROM ENTERING ANY STORM WATER SYSTEM, DITCH OR CHANNEL. ALL STORM WATER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
9. WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION.
10. PERIODIC INSPECTION AND MAINTENANCE OF ALL SEDIMENT CONTROL STRUCTURES MUST BE PROVIDED TO ENSURE INTENDED PURPOSE IS ACCOMPLISHED. THE DEVELOPER, OWNER AND/OR CONTRACTOR SHALL BE CONTINUALLY RESPONSIBLE FOR ALL SEDIMENT CONTROL MEASURES SHALL BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
11. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRACKING OF SEDIMENT BY TRACKING ON THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PUBLIC ROAD SURFACE, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROAD BY SWEEPING OR SHOWERING. TRANSPORTED SEDIMENT SHALL BE REMOVED FROM THE ROAD. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL SUBDIVISION LOTS AS WELL AS TO LARGER LAND DISTURBING ACTIVITIES.
12. ALL TEMPORARY EROSION AND SEDIMENT MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
13. PROPERTIES AND WATERWAYS DOWNSTREAM FROM CONSTRUCTION SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION AND EROSION.
14. EROSION CONTROL DESIGN AND CONSTRUCTION SHALL FOLLOW THE REQUIREMENTS IN INDEX NUMBERS 101, 102 AND 103 OF F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS. IN ADDITION TO THESE PLANS.
15. CONTRACTOR IS RESPONSIBLE FOR ALL SURFACE WATER DISCHARGES, RAINFALL RUN-OFF OR DEWATERING ACTIVITIES. CONTRACTOR MUST INCORPORATE ALL BMPs NECESSARY TO MEET OR EXCEED STATE WATER QUALITY REQUIREMENTS.
16. POLLUTION PREVENTION PLAN IS A MINIMUM GUIDELINE ONLY. ADDITIONAL BMPs MAY BE NECESSARY AT CONTRACTORS EXPENSE, NOT TO BE POSTED ON SITE.
17. NO TURBID DISCHARGE. TURBIDITY READINGS ARE REQUIRED ONCE A WEEK AND MUST BE REPORTED TO THE PROJECT ENGINEER.
18. DEWATERING ACTIVITIES:
 - A. DISCHARGE MUST NOT EXCEED STATE WATER QUALITY STANDARDS.
 - B. CONTRACTOR MUST HAVE OR OBTAIN A TRANSFERABLE SURFMO CONSUMPTIVE USE PERMIT KNOWN AS A "NOTICED GENERAL PERMIT FOR SHORT TERM CONSTRUCTION DEWATERING" UNLESS DEWATERING ACTIVITIES WILL RESULT IN LESS THAN 300,000 GPD FOR 30 DAYS OR LESS.
 - C. NO HYDRAULIC PUMPS/WATERING UNLESS APPROVED BY THE WATER MANAGEMENT DISTRICT FOR THAT AREA. DEWATERING EXISTING STORMWATER RETENTION AREAS (POND/LAKES) MAY BE EXEMPT FROM THIS CONDITION. CONTRACTOR TO CONFIRM WITH SURMO.
 - D. NO TURBID DISCHARGE. TURBIDITY READINGS ARE REQUIRED ONCE A WEEK AND MUST BE REPORTED TO THE PROJECT ENGINEER AND TO CITY OF FT. PIERCE.
20. SEE ADDITIONAL DETAILS, SPECIFICATIONS AND REQUIREMENTS OF SHEET 4, 11-13.

STORMWATER POLLUTION PREVENTION PLAN

- A SITE PLAN MUST BE DEVELOPED AND MUST CONTAIN, AT A MINIMUM, THE FOLLOWING INFORMATION:
1. DRAINAGE PATTERNS. SEE SURVEY AND DRAINAGE PLAN SHEET 7.
 2. APPROXIMATE SLOPES AFTER MAJOR GRADING ACTIVITIES - SEE SHEET 7.
 3. AREAS OF SOIL DISTURBANCE. - SEE SHEETS 2, AND THIS SHEET.
 4. OUTLINE ALL AREAS THAT ARE NOT TO BE DISTURBED. - NA.
 5. LOCATION OF ALL MAJOR STRUCTURAL AND NON-STRUCTURAL CONTROLS. - THIS SHEET.
 6. THE LOCATION OF EXPECTED STABILIZATION PRACTICES. - THIS SHEET.
 7. NO WETLANDS AND SURFACE WATERS.
 8. LOCATIONS WHERE STORMWATER MAY DISCHARGE TO A SURFACE WATER OR MS4. SEE SHEET 7.

DESCRIBE THE NATURE OF THE CONSTRUCTION ACTIVITY: DEMOLITION, LAND CLEARING, EARTHWORK, PAVING AND UTILITY WORK FOR BUILDING, PARKING AND SITE IMPROVEMENTS.

- DESCRIBE THE INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:
1. SITE PREPARATION AND STABILIZE CONSTRUCTION ENTRANCE.
 2. INSTALL SILT FENCE AROUND PERIMETER OF SITE. INSTALL TURBIDITY BARRIERS AT ALL OUTFALL LOCATIONS. CLEAR LAND. CONSTRUCT BERM ON PERIMETER AND TEMPORARY SWALES AS SHOWN ON PLANS. BERM SHALL BE CONSTRUCTED USING INITIAL IMPORTED FILL MATERIAL. THE BERM AND SWALE SHALL BE SEEDED.

TOTAL AREA OF THE SITE: 0.975 ACRES
 TOTAL AREA OF THE SITE TO BE DISTURBED: 0.975 ACRES

EXISTING DATA DESCRIBING THE SOIL OR QUALITY OF ANY STORMWATER DISCHARGE: SEE SOIL BORINGS BY SHEETS 2. NO DISCHARGE FROM DISTURBED AREAS IS ANTICIPATED.

DRAINAGE AREA SIZE FOR EACH DISCHARGE POINT: ENTIRE SITE = 0.975 ACRES

LATITUDE AND LONGITUDE OF THE SITE:
 LATITUDE = N 27° 26' 38.6"
 LONGITUDE = W 80° 19' 19.0"

BEST MANAGEMENT PRACTICES (BMPs) AND MEASURES THAT WILL BE IMPLEMENTED AT THE CONSTRUCTION SITE AND TIME FRAMES IN WHICH THE CONTROLS WILL BE IMPLEMENTED:
 THE CONTRACTOR WILL USE HAY BALES, SILT FENCE, FILTER BARRIERS, AND OTHER BMPs. THE TIME FRAMES FOR CLEARING, EARTHWORK, AND ANTICIPATED BMPs ARE:

1. INSTALL SILT FENCE AT PERIMETER OF SITE AND SILT BARRIERS AT DOWNSTREAM DITCHES/SWALES.
2. CLEAR/GRUB AREA NECESSARY FOR TEMPORARY GRAVEL DRIVEWAY AND ADJACENT SWALE.
3. CONSTRUCT TEMPORARY GRAVEL DRIVEWAY WITH SWALE, AND GRADE/SOIL SWALE AT ENTRANCE.
4. CLEAR BALANCE OF SITE.
5. CONSTRUCT 12" RCP AND MITERED END SECTIONS.
6. IMPORT FILL MATERIAL.
7. CONSTRUCT CONTAINMENT BERMS - SEED/MULCH BERMS.
8. MAINTAIN DOWNSTREAM SILT BARRIERS AND PERIMETER SILT FENCE DURING CONSTRUCTION.
9. INCORPORATE ADDITIONAL BMPs WHEN NEEDED DURING THE COURSE OF CONSTRUCTION.
10. POLLYWADDER/SILT FENCE/FILTER SACKS AS INLETS AND PIPES ARE INSTALLED.
11. PROVIDE STOCKPILE PROTECTION, CONCRETE/STUCCO WASH AREAS, AND OTHER BMPs WHEN NECESSARY TO CONTAIN PROPOSED WORK.

TEMPORARY AND PERMANENT STABILIZATION PRACTICES:
 TEMP. HAY BALES/SILT FENCES/FLOATING TURBIDITY BARRIERS PER PLAN. FILTER FABRIC SHALL BE PLACED UNDER THE ROCK GRAVEL DRIVEWAY, AT ALL SWALE OUTFALLS, AND RETENTION POND OUTFALLS.
 PERM. SEED/MULCH/SOIL CONTROLLED GRADING AND DRAINAGE TO DETENTION BASINS.
 STABILIZE ALL DE-NUDED AREAS IF LEFT UNDISTURBED FOR MORE THAN 7 DAYS - USE RYE GRASS PER MANUFACTURERS APPLICATION RATES, AND MULCHED WITH STRAW AT 4000 LB PER ACRE.

STRUCTURAL CONTROLS TO BE IMPLEMENTED TO DIVERT STORMWATER FLOW FROM RECEIVING WATERS:
 TEMP. GRAVEL ENTRANCE ROAD, GRADED TO DRAIN TO A TEMPORARY SEDIMENT SWALE OR RETENTION AREA.
 TEMP. DRAINS TO RETENTION PONDS.
 TEMP. BERMS AT PROJECT PERIMETER - PER PLAN.
 INLETS/OUTLETS WILL BE PROTECTED WITH FILTER FABRIC AND PROPERLY INSTALLED HAY BALES.
 SILT FENCE SHALL BE PLACED AROUND THE ENTIRE PERIMETER OF DISTURBED AREAS.
 A DOUBLE ROW OF SILT FENCE WILL BE PROVIDED AROUND ALL STOCK PILE AREAS.

PERMANENT STORMWATER MANAGEMENT CONTROLS SUCH AS, DETENTION OR RETENTION SYSTEMS OR VEGETATED SWALES. WET DETENTION SYSTEMS INCORPORATED AS PERMANENT BMP FOR WATER QUALITY CONTROL.

DESCRIBE IN DETAIL CONTROLS FOR THE FOLLOWING POTENTIAL POLLUTANTS:
WASTE DISPOSAL:
 ON-SITE WASTE WILL BE CONTAINERIZED. CONTRACTOR IS RESPONSIBLE FOR RECYCLING ALL WASTE MATERIALS, WITH A MINIMUM REQUIREMENT OF 75%.
 CONCRETE/STUCCO WASH AREA SHALL BE PROVIDED.
 STOCKPILE AREAS SHALL BE PROTECTED WITH SILT FENCE AND STABILIZED/SEEDED IF LEFT UNATTENDED FOR MORE THAN 7 DAYS.

OFFSITE VEHICLE TRACKING:
 PROVIDE HARD SURFACE AT TEMP. DRIVEWAY (ROCK/GRAVEL DRIVEWAY).
 REGULAR MAINTENANCE OF ADJACENT ROAD RIGHT OF WAY, INCLUDING STREET SWEEPING, & RUT REPAIR IN NON-PAVED AREAS.
 APPLICATION RATES OF ALL FERTILIZERS, HERBICIDES AND PESTICIDES:
 NONE PROPOSED.
 STORAGE, APPLICATION, GENERATION AND MIGRATION OF ALL TOXIC SUBSTANCES:
 NONE PROPOSED.

DESCRIPTION OF THE MAINTENANCE PLAN FOR ALL STRUCTURAL AND NON-STRUCTURAL CONTROLS.
 CONTRACTOR SHALL HAVE SWPPP COMPONENTS INSPECTED BY A FDEP CERTIFIED INSPECTOR AND MAINTAIN ALL CONTROLS DAILY, AND HAVE WEEKLY SWPPP INSPECTION REPORTS PREPARED, AND WITHIN 24 HOURS OF THE END OF ANY RAINFALL EVENT THAT IS 1/2" OR GREATER. ENGINEER SHALL INSPECT PERIODICALLY.

NOTES:
 1. THIS PLAN (SHEETS 4 AND 5), COPY OF FDEP NOI (STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES) AND ALL REQUIRED INSPECTION REPORTS, TESTS, AND ALL OTHER DOCUMENTATION SHALL BE KEPT AT THE PROJECT SITE.
 2. THE FOLLOWING CERTIFICATION SHALL BE COMPLETED BY ALL CONTRACTORS/SUB-CONTRACTORS RESPONSIBLE FOR ANY PORTION OF THE IMPLEMENTATION OF THE SWPPP.

CERTIFICATION:
 I CERTIFY UNDER THE PENALTY OF LAW THAT I UNDERSTAND AND SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN PREPARED THEREUNDER.

SWPPP DESCRIPTION OF WORK/RESPONSIBILITY	NAME/TITLE	CONTRACTOR OR SUB-CONTRACTOR (NAME, ADDRESS, PHONE)	NAME/SIGNATURE TO CERTIFICATION	DATE

PLAN PREPARATION:

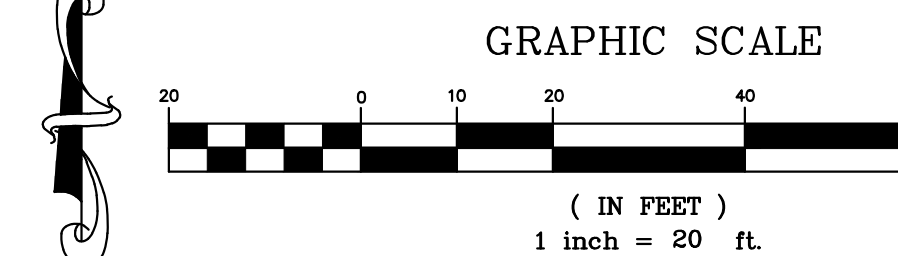
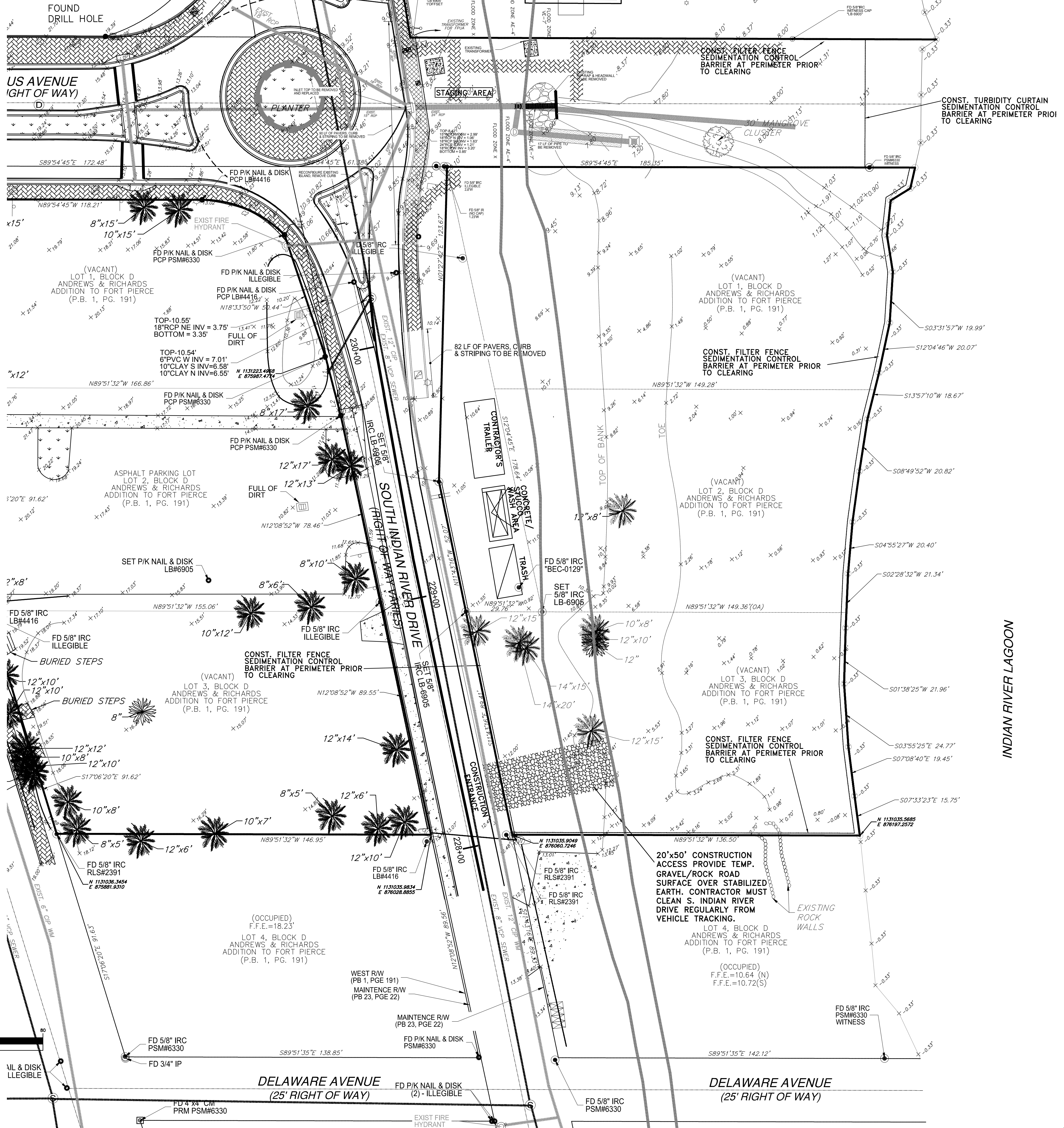
1. THIS PLAN ORIGINALLY PREPARED BY THE OWNER'S ENGINEER. THIS PLAN WILL BE MADE AVAILABLE TO CONTRACTOR TO EDIT, CHANGE, MODIFY, AS IT DEEMS NECESSARY FOR COMPLIANCE WITH FDEP REGULATIONS, PERMIT CONDITIONS, AND AS REQUIRED FOR CONTRACTOR TO SIGN THE CERTIFICATION BELOW.
2. THE FOLLOWING CERTIFICATION SHALL BE SIGNED BY THE ENTITY (CONTRACTOR) RESPONSIBLE FOR SWPPP PLAN IMPLEMENTATION:

CERTIFICATION:
 I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

BY: _____ DATE: _____
 SIGNATURE _____

ARCHAEOLOGICAL/HISTORIC OR HISTORIC ARTIFACTS, SUCH AS POTTERY OR CERAMICS, STONE TOOLS, OR METAL IMPLEMENTS, OR ANY OTHER PHYSICAL REMAINS THAT COULD BE ASSOCIATED WITH THE NATIVE AMERICAN CULTURES, OR EARLY COLONIAL OR AMERICAN SETTLEMENT ARE ENCOUNTERED AT ANY TIME WITHIN THE PROJECT SITE AREA, THE PERMITTED PROJECT SHOULD CEASE ALL ACTIVITIES INVOLVING SUBSURFACE DISTURBANCE IN THE IMMEDIATE VICINITY OF SUCH DISCOVERIES. THE PERMITTEE, OR OTHER DESIGNER, SHOULD CONTACT THE FLORIDA DEPARTMENT OF STATE, DIVISION OF HISTORICAL RESOURCES, REVIEW AND COMPLIANCE SECTION AT (850) 245-6333 OR (800) 847-7278, AS WELL AS THE APPROPRIATE PERMITTING AGENCY OFFICE. PROJECT ACTIVITIES SHOULD NOT RESUME WITHOUT VERBAL AND/OR WRITTEN AUTHORIZATION FROM THE DIVISION OF HISTORICAL RESOURCES. IN THE EVENT THAT UNMARKED HUMAN REMAINS ARE ENCOUNTERED DURING PERMITTED ACTIVITIES, ALL WORK SHALL STOP IMMEDIATELY AND THE PROPER AUTHORITIES NOTIFIED IN ACCORDANCE WITH SECTION 88.05, FLORIDA STATUTES.

- EROSION AND SEDIMENTATION CONTROL**
- A. THE LAND DISTURBING ACTIVITY SHALL CONFORM TO EXISTING TOPOGRAPHY AND SOIL TYPE SO AS TO CREATE THE LOWEST PRACTICAL EROSION POTENTIAL.
 - B. LAND DISTURBING ACTIVITIES SHALL BE CONDUCTED IN A MANNER MINIMIZING EROSION.
 - C. THE DISTURBED AREA AND THE DURATION OF EXPOSURE TO EROSION ELEMENTS SHALL BE KEPT TO A PRACTICABLE MINIMUM.
 - D. EROSION CONTROL MUST BE STRICTLY MAINTAINED DURING CUT AND FILL OPERATIONS.
 - E. DISTURBED SOIL SHALL BE STABILIZED AS QUICKLY AS PRACTICABLE.
 - F. WHENEVER FEASIBLE, NATURAL VEGETATION OR MULCHING SHALL BE EMPLOYED TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT.
 - G. TEMPORARY VEGETATION OR MULCHING SHALL BE EMPLOYED TO PROTECT EXPOSED CRITICAL AREAS DURING DEVELOPMENT.
 - H. PERMANENT VEGETATION AND STRUCTURAL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SOON AS PRACTICABLE.
 - I. ADEQUATE PROVISIONS MUST BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATION, OR THE SLOPING SURFACE OF FILLS.
 - J. TO THE EXTENT NECESSARY, SEDIMENT IN RUNOFF WATER MUST BE TRAPPED BY THE USE OF DEBRIS BASINS, SEDIMENT BASINS, SILT TRAPS OR SIMILAR MEASURES UNTIL THE DISTURBED AREA IS STABILIZED.
 - K. CUTS AND FILLS MUST BE CONSTRUCTED IN SUCH A MANNER THAT EROSION AND RUNOFF FROM THE SITE DOES NOT ENDANGER ADJOINING PROPERTY.
 - L. FILLS MUST NOT ENCROACH UPON NATURAL WATERCOURSES OR CONSTRUCTED CHANNELS IN A MANNER SO AS TO ADVERSELY AFFECT OTHER PROPERTY OWNERS WITHOUT ADEQUATE PROVISIONS FOR AN EQUIVALENT ALTERNATE SYSTEM WITH A POSITIVE OUTFALL.
 - M. ALL R.O.W.'S, WATERWAYS, STREETS AND SIDEWALKS SHALL BE BUFFERED BY A TWENTY (20) FOOT WIDE STRIP OF GRASS OR OTHER SUITABLE MEANS.
 - N. GRADING EQUIPMENT MUST CROSS FLOWING STREAMS BY BEANS OF BRIDGES OR CULVERTS EXCEPT WHEN SUCH METHODS NOT FEASIBLE AND PROVIDED IN ANY CASE, THAT SUCH CROSSINGS ARE KEPT TO A MINIMUM AND SEDIMENTATION CONTROL DEVICES ARE PROVIDED.



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EXISTING CONDITIONS/DEMOLITION AND POLLUTION PREVENTION PLAN

INDIAN RIVER VILLAS

PROJECT NO. 18-120