NOTES

GENERAL
MAINTENANCE OF EROSION CONTROL MEASURES IS OF PARAMOUNT IMPORTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. THE EROSION CONTROL SYSTEM DESCRIBED WITHIN THE CONSTRUCTION DOCUMENTS SHOULD BE CONSIDERED TO REPRESENT THE MINIMUM ACCEPTABLE STANDARDS FOR THIS PROJECT. ADDITIONAL EROSION CONTROLS MEASURES MAY BE REQUIRED DEPENDENT UPON THE STAGE OF CONSTRUCTION, THE SEVERITY OF THE RAINFALL EVENT AND/OR AS DEEMED NECESSARY AS A RESULT OF ON-SITE INSPECTIONS BY THE OWNER, THEIR REPRESENTATIVES OR THE JURISDICTIONAL AUTHORITIES. THESE ADDITIONAL MEASURES SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER. IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO ASSURE THAT THE STORM WATER DISCHARGE FROM THE SITE DOES NOT EXCEED THE TOLERANCES ESTABLISHED BY ANY OF THE JURISDICTIONAL AUTHORITIES.

SITE DESCRIPTION
LOCATION: N.W.Q. OF S.R. 50 AND C.R. 565A, GROVELAND, LAKE COUNTY, FL

A. SITE CONDITIONS & ACTIVITIES NARRATIVE:

1. THE EXISTING CONDITION OF THE SITE IS AN UNDEVELOPED COMMERCIAL PROPERTY WITH GROUND VEGETATION AND TREES. THE SITE IS PROPOSED TO BE CLEARED AND GRUBBED AND WILL HAVE NO MAJOR EFFECT ON THE ABUTTING PROPERTIES.
2. SITE OPERATOR (CONTRACTOR) SHALL PREPARE A CONSTRUCTION SCHEDULE THAT INCLUDES THE DATE GRADING WILL BEGIN AND THE EXPECTED DATE OF STABILIZATION AND SHALL INCLUDE THE CONSTRUCTION SCHEDULE AS PART OF THIS STORM WATER POLLUTION PREVENTION (SWPP) PLAN.

B. SEQUENCE OF IMPLEMENTATION OF CONTROLS:

1. INSTALLATION OF CONTROL MEASURES.
2. CLEARING, GRUBBING AND EXCAVATION.
3. CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE BUILDING, SITE DEVELOPMENT, AND INFRASTRUCTURE NECESSARY TO SERVE THE PROPOSED SITE.
4. FINAL STABILIZATION.

D. ESTIMATE OF TOTAL PROJECT AREA AND AREA TO BE DISTURBED:

1. THE TOTAL SITE AREA IS 1.14 +/- ACRES.
2. THE AREA TO BE DISTURBED IS 1.14 +/- ACRES.

E. THE USDA SOIL CONSERVATION SERVICE SOIL SURVEY OF LAKE COUNTY, LISTS ASTATULA SAND AS THE PREDOMINANT SOIL TYPE FOR THE PROJECT AREA.

F. RUNOFF COEFFICIENT ESTIMATES (C) FOR EXISTING SOIL DATA:
BEFORE CONSTRUCTION: C = 0.20
AFTER CONSTRUCTION: C = 0.70
DURING CONSTRUCTION: C = 0.40

G. RECEIVING WATERS/WETLAND AREAS: MASTER STORMWATER SYSTEM LOCATED WEST OF THE PROJECT SITE.

H. MS4 OPERATOR NAME (IF ANY): LAKE COUNTY

I. CALCULATIONS: REFER TO ENGINEER'S STORMWATER MANAGEMENT ANALYSIS.

EROSION AND SEDIMENT CONTROLS
EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO, OR AS THE FIRST STEP IN CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. THE EROSION CONTROL SYSTEM DESCRIBED WITHIN THE CONSTRUCTION DOCUMENTS SHOULD BE CONSIDERED TO REPRESENT THE MINIMUM ACCEPTABLE STANDARDS FOR THIS PROJECT. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DEPENDENT UPON THE STAGE OF CONSTRUCTION, THE SEVERITY OF THE RAINFALL EVENT AND/OR AS DEEMED NECESSARY AS A RESULT OF ON-SITE INSPECTIONS BY THE OWNER, THEIR REPRESENTATIVES, OR THE APPLICABLE JURISDICTIONAL AUTHORITIES. THESE ADDITIONAL MEASURES (IF NEEDED) SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE OWNER. IT IS NOTED THAT THE MEASURES IDENTIFIED ON THIS PLAN SHOULD BE ONLY THE SUGGESTED BEST MANAGEMENT PRACTICES (BMPS), THE CONTRACTOR SHALL PROVIDE POLLUTION PREVENTION AND EROSION CONTROL MEASURES AS SPECIFIED IN FDOT INDEXES #100 THROUGH #102 AND AS NECESSARY FOR EACH SPECIFIC APPLICATION, IT IS THE CONTRACTOR'S ULTIMATE RESPONSIBILITY TO ASSURE THAT THE STORMWATER DISCHARGE FROM THE SITE DOES NOT EXCEED THE TOLERANCES ESTABLISHED BY ANY OF THE APPLICABLE JURISDICTIONAL AUTHORITIES.

A. GENERAL EROSION CONTROL

1. CLEARING AND GRUBBING OPERATIONS SHALL BE CONTROLLED SO AS TO MINIMIZE UNPROTECTED ERODIBLE AREAS EXPOSED TO WEATHER. GENERAL EROSION CONTROL BMPS SHALL BE EMPLOYED TO MINIMIZE SOIL EROSION AND OFF-SITE SEDIMENTATION. WHILE THE VARIOUS TECHNIQUES REQUIRED WILL BE SITE AND PLAN SPECIFIC, THEY SHOULD BE EMPLOYED PRIOR TO ANY CONSTRUCTION ACTIVITY.
2. EXCAVATED MATERIAL WILL NOT BE DEPOSITED IN LOCATIONS WHERE IT COULD BE WASHED AWAY BY HIGH WATER OR STORM WATER RUNOFF, STOCKPILED MATERIAL SHALL BE COVERED OR ENCIRCLED WITH SEDIMENT CONTAINMENT DEVICES.
3. STABILIZATION MEASURES SHALL BE INITIATED FOR EROSION AND SEDIMENT CONTROL ON DISTURBED AREAS AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. CLEARED SITE DEVELOPMENT AREAS WHICH WILL REMAIN AT ROUGH GRADE FOR 14 DAYS OR MORE SHOULD BE STABILIZED IMMEDIATELY BY COVERING WITH ADEQUATE AMOUNTS OF HAY, OVER- SEEDED AND PERIODICALLY WATERED SUFFICIENTLY TO STABILIZE THE TEMPORARY GROUNDCOVER, OR BY THE USE OF AN APPROPRIATE ALTERNATIVE BMP.
4. ALL GRASS SLOPES CONSTRUCTED STEEPER THAN 4H:1V SHALL BE SODDED IMMEDIATELY AFTER FINAL GRADE IS ESTABLISHED.
5. WHERE REQUIRED TO PREVENT EROSION FROM SHEET FLOW ACROSS BARE GROUND FROM ENTERING A LAKE OR SWALE, A TEMPORARY SEDIMENT SUMP SHALL BE CONSTRUCTED. THE TEMPORARY SEDIMENT SUMP SHALL REMAIN IN PLACE UNTIL VEGETATION IS ESTABLISHED ON THE GROUND DRAINING TO THE SUMP.
6. PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES OR ANY DISTURBED LAND AREAS SHALL BE COMPLETED IMMEDIATELY AFTER FINAL GRADING. WHEN IT IS NOT POSSIBLE TO PERMANENTLY PROTECT A DISTURBED AREA IMMEDIATELY AFTER GRADING OPERATIONS, TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED. ALL TEMPORARY PROTECTION SHALL BE MAINTAINED UNTIL PERMANENT MEASURES ARE IN PLACE AND ESTABLISHED.

B. PROTECTION OF SURFACE WATERS

1. WHERE PRACTICAL, STORMWATER SHALL BE CONVEYED BY SWALES. SWALES SHALL BE CONSTRUCTED AS SHOWN ON PLANS.
2. EROSION CONTROL MEASURES SHALL BE EMPLOYED TO MINIMIZE TURBIDITY OF SURFACE WATERS LOCATED DOWNSTREAM OF ANY CONSTRUCTION ACTIVITY. WHILE THE VARIOUS MEASURES REQUIRED WILL BE SITE SPECIFIC, THEY SHALL BE EMPLOYED AS NEEDED IN ACCORDANCE WITH THE FOLLOWING:
   2.1. IN GENERAL, EROSION SHALL BE CONTROLLED AT THE FURTHEST PRACTICAL UPSTREAM LOCATION.
   2.2. NEW AND EXISTING STORMWATER INLETS AND OUTFALL STRUCTURES SHALL BE PROTECTED DURING CONSTRUCTION. PROTECTION MEASURES SHALL BE EMPLOYED IMMEDIATELY AS REQUIRED DURING THE VARIOUS STAGES OF CONSTRUCTION.
   2.3. PERIMETER EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL FINAL SITE STABILIZATION HAS BEEN ESTABLISHED
3. HEAVY CONSTRUCTION EQUIPMENT PARKING AND MAINTENANCE AREAS SHALL BE DESIGNED TO PREVENT OIL, GREASE, AND LUBRICANTS FROM ENTERING SITE DRAINAGE FEATURES INCLUDING STORMWATER COLLECTION AND TREATMENT SYSTEMS. CONTRACTORS SHALL PROVIDE BROAD DIKES OR SILT SCREENS AROUND, AND SEDIMENT SUMPS WITHIN, SUCH AREAS AS REQUIRED TO CONTAIN SPILLS OF OIL, GREASE, LUBRICANTS, OR OTHER CONTAMINANTS. CONTRACTORS SHALL HAVE AVAILABLE, AND SHALL USE, ABSORBENT FILTER PADS TO CLEAN UP SPILLS IMMEDIATELY AFTER ANY OCCURRENCE.

WIND EROSION CONTROL
1. BARE EARTH AREAS SHALL BE WATERED DURING CONSTRUCTION AS NECESSARY TO MINIMIZE THE TRANSPORT OF FUGITIVE DUST. IT MAY BE NECESSARY TO LIMIT CONSTRUCTION VEHICLE SPEED IF BARE EARTH HAS NOT BEEN EFFECTIVELY WATERED. IN NO CASE SHALL FUGITIVE DUST BE ALLOWED TO LEAVE THE SITE UNDER CONSTRUCTION.
2. AS REQUIRED AFTER COMPLETION OF CONSTRUCTION, BARE EARTH AREAS SHALL BE VEGETATED.
3. AT ANY TIME BOTH DURING AND AFTER SITE CONSTRUCTION THAT WATERING AND/OR VEGETATION ARE NOT EFFECTIVE IN CONTROLLING WIND EROSION AND/OR TRANSPORT OF FUGITIVE DUST, OTHER METHODS AS ARE NECESSARY FOR SUCH CONTROL SHALL BE EMPLOYED. THESE METHODS MAY INCLUDE ERECTION OF DUST CONTROL FENCES, IF REQUIRED. DUST CONTROL FENCES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAIL FOR A SILT FENCE EXCEPT THE MINIMUM HEIGHT SHALL BE 4 FEET.

IN ADDITION TO THOSE RESPONSIBILITIES OUTLINED WITHIN THE CONSTRUCTION PLANS AND DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING MEASURES:

1. PROJECT SCHEDULE WITH EROSION AND SEDIMENT CONTROL INSTALLATION AND MAINTENANCE TIED TO SPECIFIC DATES OR CONSTRUCTION ACTIVITIES.
2. ALTERATIONS TO THE DESIGN EROSION AND SEDIMENT CONTROLS DUE TO DIFFERENCES BETWEEN THE DESIGN PLANS AND ANTICIPATED CONSTRUCTION PHASING AND THE CONTRACTOR'S CONSTRUCTION METHODS.
3. NAME AND PHONE NUMBER OF CONTRACTOR'S REPRESENTATIVE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROL INSTALLATION AND MAINTENANCE ON A 24 HOUR BASIS.
4. THE CONTRACTOR WILL FURNISH, INSTALL, MAINTAIN AND SUBSEQUENTLY REMOVE, ALL NECESSARY EROSION CONTROL. THE CONTRACTOR WILL FURNISH AND INSTALL ALL NECESSARY PERMANENT EROSION CONTROLS.
5. THE DEVELOPMENT OF THE APPLICABLE BMP'S TO ENSURE THE CONTROL OF OFF-SITE TRACKING /SPILLAGE, SANITARY WASTE, FERTILIZERS & PESTICIDES, SOLID WASTE DISPOSAL, AND NON-STORMWATER DISCHARGES & HAZARDOUS WASTE. WHEN THE CONTRACTOR ENCOUNTERS A SPILL, CONSTRUCTION WILL STOP AND WORK WILL NOT RESUME UNTIL DIRECTED BY THE APPROPRIATE AGENCY. DISPOSITION OF HAZARDOUS WASTE WILL BE MADE IN ACCORDANCE WITH ANY REQUIREMENTS AND REGULATIONS OF ANY LOCAL, STATE, OR FEDERAL AGENCY HAVING JURISDICTION.

THE CONTRACTOR IS ADVISED THAT THE CONTRACT DRAWINGS ONLY INDICATE EROSION, SEDIMENT, AND TURBIDITY CONTROLS AT LOCATIONS DETERMINED IN THE DESIGN PROCESS. HOWEVER, THE CONTRACTOR IS REQUIRED TO PROVIDE ANY ADDITIONAL CONTROLS NECESSARY TO PREVENT THE POSSIBILITY OF SILTING ANY ADJACENT LOWLAND PARCEL OR RECEIVING WATER.

MAINTENANCE
MAINTENANCE OF EROSION CONTROL DEVICES IS OF PARAMOUNT IMPORTANCE TO THE PROPERTY OWNER/USER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL POLLUTION PREVENTION CONTROLS. DAILY REVIEW SHALL BE MADE BY THE CONTRACTOR TO DETERMINE IF CONSTRUCTION ACTIVITIES HAVE ALTERED THE EFFECTIVENESS OF EROSION, SEDIMENTATION, TURBIDITY, AND POLLUTION CONTROL MEASURES. CORRECTIVE ACTION SHALL BE PERFORMED IMMEDIATELY. THE CONTRACTOR WILL COMPLETE A REPORT DETAILING MEASURES THAT ARE NOT ACHIEVING PERMIT COMPLIANCE AND THE CORRECTIVE ACTION THAT IS TAKEN, UNLESS OTHERWISE SPECIFIED. ACCUMULATED SEDIMENTS SHOULD BE REMOVED BEFORE THEY REACH ONE-HALF OF THE CAPACITY OF THE CONTROL DEVICE.

INSPECTION
1. THE CONTRACTOR IS REQUIRED TO INSPECT AND MAINTAIN CONTROLS WEEKLY AND WITHIN 24 HOURS AFTER A RAINSTORM IN EXCESS OF 0.25 INCHES.
2. INSPECTION REPORTS SHALL BE SIGNED BY THE INSPECTOR AND CONTRACTOR AND MAINTAINED FOR FUTURE REFERENCE AS NEEDED. THE INSPECTION SHALL REPORT ALL INSPECTION FINDINGS AND CORRECTIVE ACTIONS TAKEN AS A RESULT OF THE INSPECTOR MUST BE A QUALIFIED EROSION AND SEDIMENT CONTROL INSPECTOR AS DEFINED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

STORM WATER MANAGEMENT
THE STORM WATER RUNOFF FROM THE PROJECT AREA WILL BE COLLECTED ON SITE PRIOR TO A CONTROLLED DISCHARGE TO THE RECEIVING PUBLIC ROADWAY DRAINAGE SYSTEM.

APPROVED STATE AND LOCAL PLANS OR PERMITS
THE FOLLOWING PERMITS ARE REQUIRED FOR THE CONSTRUCTION OF THE STORM WATER FACILITIES FOR THIS PROJECT:

A. CITY OF GROVELAND CONSTRUCTION PERMIT
B. SJRWMD ERP - MINOR MODIFICATION

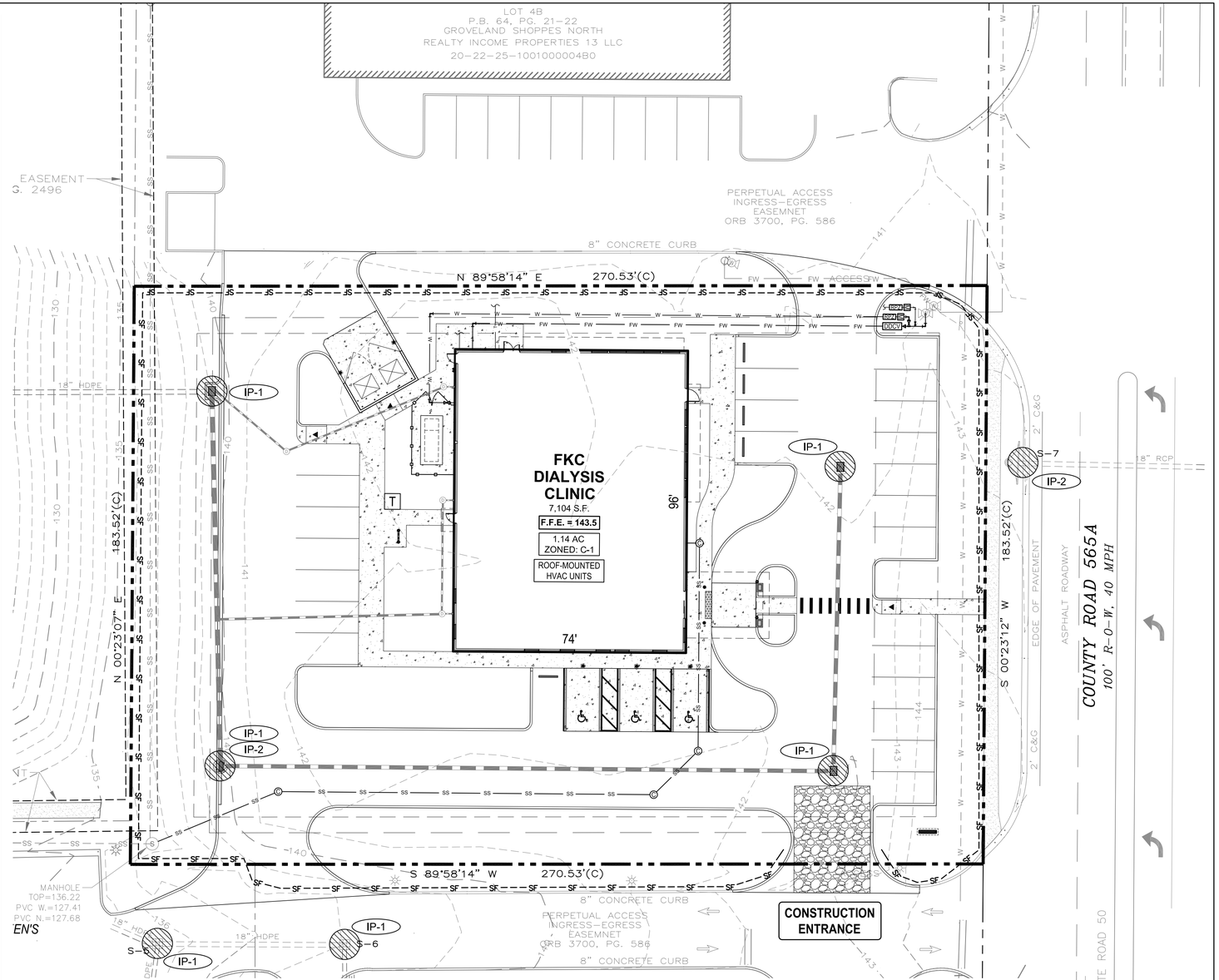
REFERENCES
1. THE CONSTRUCTION PLANS AND SPECIFICATIONS FOR THIS PROJECT, FORESITE GROUP PROJECT No. 865.001, AS PREPARED BY FORESITE GROUP, INC., AND REFERENCED AND MADE A PART OF THIS PLAN.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FILE "NOTICE OF INTENT TO USE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES" (DEP FORM 62-621.300(4)(B) OR LATEST VERSION) TO FDEP VIA WEBSITE ELECTRONIC SUBMITTAL OR TO THE FOLLOWING ADDRESS:

   NPDES STORMWATER NOTICES CENTER, MS #2510
   FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
   2600 BLAIR STONE ROAD
   TALLAHASSEE, FLORIDA 32399-2400

TREE PROTECTION
CRITICAL ROOT AREAS FOR TREES SHOWN TO BE PRESERVED SHALL NOT BE DISTURBED. CONTRACTOR SHALL PAY CLOSE ATTENTION WHEN CLEARING AND/OR GRADING THE SITE TO ENSURE THAT WHEN EXISTING ROOTS ARE ENCOUNTERED THEY ARE CUT OFF EVENLY WITH CLEAN SHARP PRUNING TOOLS. CONTRACTOR SHALL BE RESPONSIBLE FOR MINIMIZING THE DAMAGE OF THE EXISTING ROOT SYSTEMS.

SEQUENCE OF CONSTRUCTION
A. PHASE I:
   1. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
   2. CONSTRUCT THE SILT FENCES ON THE SITE.
   3. HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEERING CONSULTANT TO PERFORM INSPECTION OF BMPs. GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.
   4. PREPARE TEMPORARY PARKING AND STORAGE AREA, UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAY DOWN, PORTA POTTY, WHEEL WASH, CONCRETE WASHOUT, MASONS AREA, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., DENOTE THEM ON THE SITE MAPS IMMEDIATELY AND NOTE ANY CHANGES IN THE LOCATIONS AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.
   5. CONSTRUCT THE SEDIMENTATION AND SEDIMENT TRAP BASINS.
   6. CLEAR AND GRUB THE SITE.
   7. START CONSTRUCTION OF BUILDING PAD AND STRUCTURES.
   8. BEGIN GRADING THE SITE.

B. PHASE II:
   1. TEMPORARILY SEED DENUDED AREAS.
   2. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS,
   3. INSTALL RIP RAP AROUND OUTLET STRUCTURES.
   4. INSTALL INLET PROTECTION AROUND ALL STORM SEWER STRUCTURES.
   5. PREPARE SITE FOR PAVING.
   6. PAVE SITE.
   7. INSTALL INLET PROTECTION DEVICES.
   8. COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
   9. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED).



NOTE: CONTRACTOR SHALL INSTALL APPROPRIATE OFF-SITE SILT FENCE AND INLET PROTECTION AS NECESSARY PRIOR TO CONSTRUCTING ANY OFF-SITE IMPROVEMENTS.

LEGEND

- PROPERTY LINE
- TEMPORARY SILT FENCE (—SF—)
- EXISTING LIGHT POLE
- TEMPORARY STABILIZED CONSTRUCTION ENTRANCE
- EXISTING TREE, DBH AND ASSUMED CRITICAL ROOT ZONE TO BE PRESERVED
- STORMWATER PIPE
- DRAINAGE INLET
- EXISTING STORM STRUCTURE AND PIPE
- EXISTING CURB INLET
- EXISTING DRAINAGE PIPE (18" HDPE)
- PROPOSED INLET PROTECTION
- TYPE OF INLET PROTECTION (REFER TO SWPPP DETAILS PLAN) (IP-#)

CONSTRUCTION SEQUENCING TABLE

NOTE: TABLE PROVIDED AS A GUIDE ONLY. THE CONTRACTOR SHALL USE BEST JUDGEMENT.

CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
NOTICE OF COMMENCEMENT												
CONSTRUCTION ENTRANCE CONSTRUCTION												
TEMPORARY CONTROL MEASURES												
STRIP AND STOCKPILE TOPSOIL												
STORM FACILITIES												
ROUGH GRADE / SEDIMENT CONTROL												
FOUNDATION / BUILDING CONSTRUCTION												
SITE CONSTRUCTION												
FINISH GRADING												
PERMANENT CONTROL MEASURES												
AS-BUILT CERTIFICATION												

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PROJECT:
FRESENIUS KIDNEY CARE
DIALYSIS CLINIC
CLERMONT WEST

LOCATION:
(ADDRESS TO BE ASSIGNED)
N.W.Q. OF C.R. 565A & S.R. 50
GROVELAND
LAKE COUNTY, FL 34736

DEVELOPER:
DOUGLAS C. McNAB, ARCHITECT
8148 OLD FEDERAL ROAD
MONTGOMERY, AL 36117
TEL (334) 271-3015

ENGINEER:
FORESITE group
FL CA 26115
Foresite Group, Inc.
10150 Highland Manor Dr.
Suite 210
Tampa, FL 33610
o | 813.549.3250
f | 813.621.3580
w | www.fg-inc.net

SEAL:
DAMON M. PARRISH LICENSE No. 73145 STATE OF FLORIDA PROFESSIONAL ENGINEER
06/02/16

REVISIONS	DATE

PROJECT MANAGER:	BK
DRAWING BY:	JEC
JURISDICTION:	CITY OF GROVELAND, FL
DATE:	19 MAY 2016

TITLE:
STORMWATER POLLUTION PREVENTION PLAN

SHEET NUMBER: C-9.0

SCALE: 1 = 20
20 10 0 20 40
SCALE IN FEET

JOB/FILE NUMBER: 865.001