

GLOBAL INNOVATION, LLC

SOP 11-02
29597

SITE PLAN FOR:
ABRAM HUBER
GLOBAL INNOVATION, LLC
496 SW RING CT
LAKE CITY, FL 32025
386.752.4502

CES

Crews Engineering Services, LLC

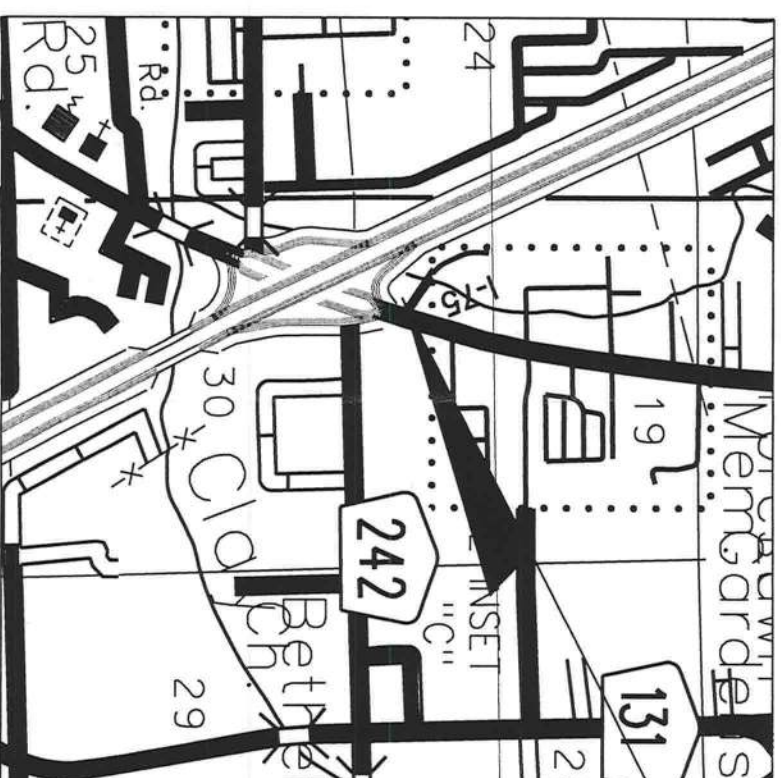
P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4085
www.crewsengineering.com

CERTIFICATE OF AUTHORIZATION: NO. 28022

BRETT A. CREWS, P.E. 65592

REVISIONS

06-02-2011 REVISED SITE PER SRWMD AND CLIENT



PROJECT LOCATION

LOCATION MAP

SECTION 19, TOWNSHIP 4 SOUTH, RANGE 17 EAST
COLUMBIA, FLORIDA

LOT 9, CANNON CREEK CENTER

PARCEL # 19-4S-17-08558-109

INDEX OF SHEETS

- DET1
 - DET2
 - SIT1
 - SIT2
 - PAV1
 - PAV2
 - SWM1
- GENERAL NOTES
MISCELLANEOUS NOTES AND DETAILS
EXISTING CONDITIONS
SITE PLAN
PAVING AND DRAINAGE PLAN
PAVING AND DRAINAGE NOTES AND DETAILS
SURFACE WATER MANAGEMENT FACILITY
APPLICABLE FDOT DESIGN STANDARDS

CES PROJECT ID:
2010-008

Brett A. Crews
6-2-2011

GENERAL NOTES

1. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS AT THE JOB SITE TO INSURE THAT ALL NEW WORK WILL FIT IN THE MANNER INTENDED ON THE PLANS. SHOULD ANY CONDITIONS EXIST THAT ARE CONTRARY TO THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF SUCH DIFFERENCES IMMEDIATELY & PRIOR TO PROCEEDING WITH THE WORK.
2. THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE AT ALL TIMES IN A SECURE MANNER. ALL OPEN TRENCHES AND EXCAVATED AREAS SHALL BE PROTECTED FROM ACCESS BY THE GENERAL PUBLIC.
3. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE ENGINEER.
4. THE STORM WATER MANAGEMENT SYSTEM SHALL BE CONSTRUCTED IN ACCORDANCE WITH SRWMD RULES AND REGULATIONS (CH. 40B-4 F.A.C.).
5. EXISTING DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, UNLESS OTHERWISE SPECIFIED IN THE PLANS.
6. THE CONTRACTOR SHALL WASTE ALL EXCESS EARTH ON SITE AS DIRECTED BY THE ENGINEER.
7. ALL SITE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COLUMBIA COUNTY LAND DEVELOPMENT REGULATIONS.
8. SITE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER CONTRACTORS WITHIN PROJECT LIMITS.
9. ALL PROPOSED CONSTRUCTION SHALL CONFORM TO CURRENT FDOT DESIGN STANDARDS AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
10. ALL STORM SEWER PIPES SHALL HAVE A MINIMUM COVER OF 6". LIMEROCK BACKFILL SHALL BE USED IF PIPE UNDER PAVEMENT HAS LESS THAN 12" COVER.
11. ALL SWALES, DEPRESSION AREAS AND RETENTION PONDS SHALL BE INSPECTED MONTHLY FOR SINKHOLE OCCURRENCE. SHOULD A SINKHOLE OCCUR, THE AREA SHOULD BE REPAIRED AS SOON AS POSSIBLE. IF A SOLUTION PIPE SINKHOLE FORMS WITHIN THE STORM WATER SYSTEM, THE SINKHOLE SHALL BE REPAIRED BY BACKFILLING WITH A LOW PERMEABILITY MATERIAL. A 2-FOOT CAP THAT EXTENDS 2 FEET BEYOND THE PERIMETER OF THE SINKHOLE SHALL BE CONSTRUCTED WITH CLAYEY SOILS. THE CLAYEY SOIL SHOULD HAVE AT LEAST 20% PASSING THE NUMBER 200 SIEVE, COMPACTED TO 95% OF STANDARD PROCTOR, AND COMPACTED IN A WET CONDITION WITH MOISTURE 2%-4% ABOVE OPTIMUM. THE CLAY SOIL CAP SHALL BE RE-GRADED TO PREVENT PONDING AND RE-VEGETATED.
12. ALL NEW TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE CURRENT FDOT DESIGN STANDARDS.
13. MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH CURRENT FDOT DESIGN STANDARDS.
14. CONTRACTOR SHALL CONTACT COLUMBIA COUNTY BUILDING AND ZONING DEPARTMENT TO PERFORM THE FOLLOWING SITE INSPECTIONS:
 - A) EROSION AND SEDIMENT CONTROL - PRIOR TO BEGINNING CONSTRUCTION
 - B) SITE COMPLIANCE - ONCE BUILDING FOUNDATION IS POURED AND IMPROVEMENTS ARE STAKED OUT
 - C) FINAL SITE COMPLIANCE - ONCE ALL IMPROVEMENTS ARE FINALIZED
15. CONTRACTOR SHALL CONTACT SRWMD AND ENGINEER OF RECORD 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
16. ANY UNSUITABLE MATERIAL (SPOTIC, CLAY, OTHER IMPERMEABLE SOILS) SHALL BE REMOVED FROM THE SURFACE WATER MANAGEMENT FACILITIES. THIS UNSUITABLE MATERIAL SHALL NOT BE USED AS FILL MATERIAL IN CONSTRUCTION OF THE BERMS. CONTRACTOR SHALL CONTACT ENGINEER OF RECORD TO INSPECT SURFACE WATER MANAGEMENT FACILITY ONCE EXCAVATED TO FINISH GRADE TO DETERMINE IF LINED WITH SUITABLE MATERIAL.

UTILITY NOTES

1. ALL EXISTING UTILITIES SHALL BE LOCATED PRIOR TO BEGINNING WORK. THIS INCLUDES VERIFYING LOCATION (HORIZONTAL AND VERTICAL) AT ANY CONNECTION POINT OF THE EXISTING UTILITY. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES EXISTING BETWEEN THE CONSTRUCTION PLANS AND ACTUAL FIELD CONDITIONS. EXISTING UTILITIES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY AND SHALL BE VERIFIED IN THE FIELD BY NON-DESTRUCTIVE METHODS.
2. CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH ALL REQUIRED UTILITY CONNECTIONS PRIOR TO BIDDING. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS REQUIRED TO COMPLETE CONNECTION TO THE EXISTING UTILITIES. THIS INCLUDES, BUT IS NOT LIMITED TO, MANHOLE CORING, WET TAPS, PAVEMENT REPAIRS AND DIRECTIONAL BORING.
3. ALL UTILITY CONSTRUCTION SHALL CONFORM TO CURRENT CITY OF LAKE CITY UTILITY STANDARDS.
4. ALL NEW AND RELOCATED WATER MAIN PIPES, FITTINGS, APPURTENANCES AND WATER WORKS ASSOCIATION (AWWA) STANDARDS AND/OR MANUFACTURES RECOMMENDATIONS.
5. SUFFICIENT VALVES SHALL BE PROVIDED IN NEW AND RELOCATED WATER MAINS TO MINIMIZE INCONVENIENCE AND SANITARY HAZARDS DURING REPAIRS.
6. AT HIGH POINTS WHERE AIR CAN ACCUMULATE IN NEW AND RELOCATED WATER MAINS, HYDRANTS OR AIR RELEASE VALVES SHALL BE PROVIDED TO REMOVE AIR.
7. AUTOMATIC AIR RELEASE VALVES ON NEW AND RELOCATED WATER MAINS SHALL NOT BE LOCATED WHERE FLOODING OF THE VALVE MANHOLE OR CHAMBER COULD OCCUR.
8. HYDRANT DRAINS, FLUSHING DEVICES, AIR RELEASE VALVES OR CHAMBERS, MANHOLES CONTAINING VALVES, BLOW-OFFS, METERS, OR OTHER APPURTENANCES PROVIDED IN CONJUNCTION WITH NEW AND RELOCATED WATER MAINS SHALL NOT BE CONNECTED DIRECTLY TO ANY SANITARY OR STORM SEWER.
9. STONES FOUND IN TRENCHES FOR NEW AND RELOCATED WATER AND SANITARY SEWER MAINS SHALL BE REMOVED TO A DEPTH OF AT LEAST SIX INCHES BELOW THE BOTTOM OF PIPE. CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED IN THESE TRENCHES. THIS BACKFILL MATERIAL SHALL BE TAMPED IN LAYERS AROUND PIPE TO A SUFFICIENT HEIGHT ABOVE PIPE TO ADEQUATELY SUPPORT AND PROTECT THE PIPE.
10. ALL TEES, BENDS, PLUGS, AND HYDRANTS IN NEW AND RELOCATED WATER MAINS SHALL BE PROVIDED WITH RESTRAINED JOINTS TO PREVENT MOVEMENT. MEGALUG MECHANICAL JOINT RESTRAINTS OR APPROVED ALTERNATIVE (NOT THRUST BLOCKS) SHALL BE USED WITH MANUFACTURES RECOMMENDATIONS. ALL RESTRAINED JOINTS SHALL BE LEFT OPEN UNTIL INSPECTED BY THE CITY.
11. A 24" MINIMUM COVER HEIGHT SHALL BE PROVIDED ABOVE ANY NEW OR RELOCATED WATER OR SANITARY SEWER MAIN CROSSING UNDER ANY SURFACE WATER. PROVIDE THE FOLLOWING FEATURES IF WIDTH OF SURFACE WATER IS GREATER THAN 15' AT THIS CROSSING:
 - A) FLEXIBLE WATER TIGHT JOINTS THROUGHOUT THE CROSSING
 - B) EASILY ACCESSIBLE VALVES LOCATED IN A MANHOLE
 - C) PERMANENT TAPS ON EACH SIDE OF VALVE WITHIN THE MANHOLE TO ALLOW FOR SAMPLING AND INSERTION OF A SMALL METER TO DETERMINE LEAKAGE
12. PROPER BACKFLOW PREVENTION SHALL BE PROVIDED IN ACCORDANCE WITH RULE 62-555.360 F.A.C. (CROSS-CONNECTION CONTROL FOR PUBLIC WATER SYSTEMS).
13. THIS PROJECT SHALL NOT INCLUDE ANY INTERCONNECTION BETWEEN PREVIOUSLY SEPARATE PUBLIC WATER SYSTEMS HAVING SEPARATE WATER SUPPLY SOURCES.
14. ANY NEW AND RELOCATED WATER LATERALS SHALL CROSS ABOVE SANITARY SEWER PIPE OR PROVIDE PROTECTION TO PREVENT CONTAMINATION AS REQUIRED BY FDEP AND OTHER APPLICABLE STANDARDS.

EROSION CONTROL NOTES

1. CONTRACTORS SHALL ADHERE TO THE STORM WATER POLLUTION PREVENTION PLAN, EROSION AND SEDIMENT CONTROL REGULATIONS AS SET BY SRWMD AND OTHER GOVERNING AUTHORITIES AND USE (AS A MINIMUM) THE MEASURES DESCRIBED ON THE EROSION CONTROL NOTES AND DETAILS SHEET.
2. ALL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AND WATER MANAGEMENT FACILITIES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING ADDITIONAL MEASURES AS REQUIRED FOR PROPER EROSION AND SEDIMENT CONTROL. THE CONTRACTOR SHOULD USE BMPs IN THE FLORIDA EROSION AND SEDIMENT CONTROL INSPECTORS MANUAL TO IMPLEMENT A PLAN THAT WILL WORK AND MEET ACTUAL FIELD CONDITIONS.
4. SEDIMENT AND EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL ALL CONSTRUCTION IS COMPLETE AND UNTIL A PERMANENT GROUND COVER HAS BEEN ESTABLISHED.
5. ALL OPEN DRAINAGE SWALES SHALL BE GRASSED IMMEDIATELY AND RIP RAP SHALL BE PLACED AS REQUIRED TO CONTROL EROSION.
6. SILT FENCES SHALL BE LOCATED ON SITE TO PREVENT SEDIMENT AND EROSION FROM LEAVING PROJECT LIMITS. SILT FENCE SHALL BE CLEANED OR REPLACED WHEN SILT BUILDS UP TO WITHIN ONE FOOT OF TOP OF SILT FENCE.
7. DURING CONSTRUCTION AND AFTER CONSTRUCTION IS COMPLETE, ALL STRUCTURES SHALL BE CLEANED OF ALL DEBRIS AND EXCESS SEDIMENT.
8. ALL DISTURBED AREAS SHALL BE STABILIZED IMMEDIATELY TO PREVENT EROSION. SLOPES GREATER THAN 1V:4H SHALL BE STABILIZED WITH SOD. STABLE SOD SHALL BE USED ON SLOPES GREATER THAN 1V:2H. ALL DISTURBED AREAS NOT SODDED SHALL BE SEEDED WITH A MIXTURE OF LONG-TERM VEGETATION AND QUICK-GROWING SHORT-TERM VEGETATION FOR THE FOLLOWING CONDITIONS: FOR THE MONTHS FROM SEPTEMBER THROUGH MARCH, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF WINTER RYE. FOR THE MONTHS OF APRIL THROUGH AUGUST, THE MIX SHALL CONSIST OF 70 POUNDS PER ACRE OF LONG-TERM SEED AND 20 POUNDS PER ACRE OF MILLET.
9. ALL STABILIZATION PRACTICES SHALL BE INITIATED AS SOON AS PRACTICABLE IN AREAS OF THE JOB WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY STOPPED, BUT IN NO CASE SHALL THE DISTURBED AREA BE LEFT UNPROTECTED FOR MORE THAN THREE (3) DAYS.
10. LOADED HAUL TRUCKS SHALL BE COVERED WITH TARPS AND EXCESS DIRT REMOVED DAILY.
11. THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE WATER QUALITY STANDARDS.
12. QUALIFIED PERSONNEL SHALL INSPECT THE STOCKPILE AREAS, SILT FENCE, CONSTRUCTION ENTRANCE, AND ALL DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED, AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER A STORM OF 0.5 INCHES OR GREATER. CORRECTIVE ACTIONS SHALL BE TAKEN IMMEDIATELY.
13. CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROLS DURING PROPOSED CONSTRUCTION.

REVISIONS			
DATE	BY	DESCRIPTION	



CES
Certificate of Authorization
P.O. Box 970
Lake City, FL 32056
Phone: 386.754.4085

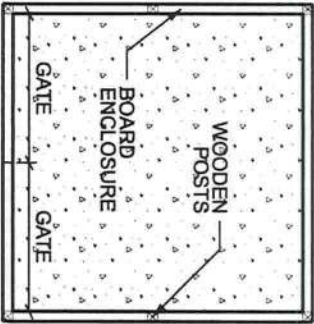
Crews Engineering Services, LLC



6.3.2011

Brett A. Crews, P.E. 65592

DRAWN BY: BC	GLOBAL INNOVATION, LLC	
	COMMERCIAL SITE	CES PROJECT NO.: 2010-008
APPROVED BY: BC	GENERAL NOTES	
		SHEET: DET1



4" THICK 2500 PSI CONCRETE
WITH FIBER MESH
PROVIDE 1/8" - 1/4" CONTRACTION JOINTS
ON 10' CENTERS MAXIMUM

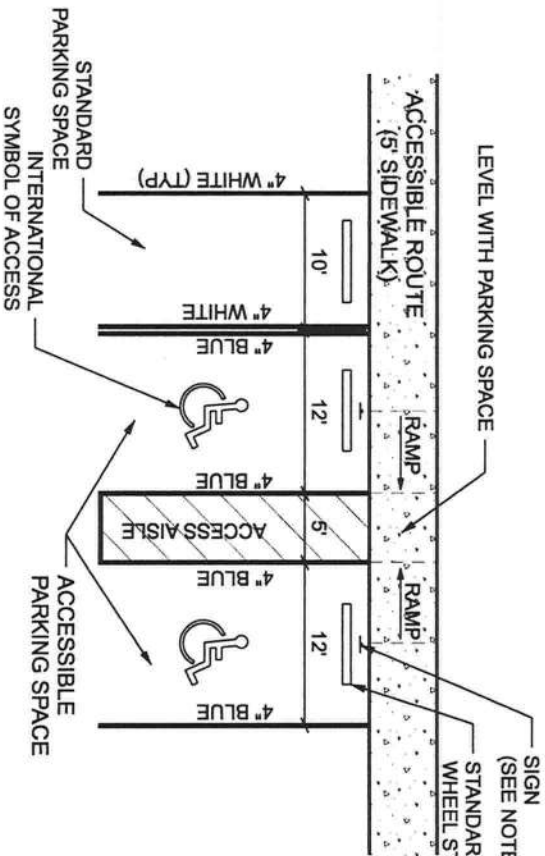


PLAN VIEW

SECTION

DUMPSTER PAD DETAIL

NTS



TYPICAL OFF-STREET PARKING DETAIL

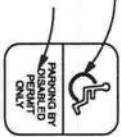
NTS

NOTES:

1. ALL ACCESSIBLE ROUTES SHALL MEET ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. ACCESS AISLE MAY BE PLACED ON RIGHT OR LEFT SIDE OF PARKING STALL.
3. SIGN SHALL BE PLACED IN FRONT OF ALL DESIGNATED ACCESSIBLE PARKING SPACES.
4. SIGN HEIGHT SHALL BE 7' FROM PAVEMENT TO BOTTOM OF SIGN.
5. INTERNATIONAL SYMBOL OF ACCESS SHALL BE 3 - 5 FT HIGH AND BLUE IN COLOR.
6. RAMP SHALL PROVIDE NON-SLIP FINISH AND HAVE A MAXIMUM SLOPE OF 1:12.
7. PAINT EDGE OF SIDEWALK WITH CONTRASTING PAINT AT RAMP TRANSITION. 3" WIDTH ON TOP AND ON FACE OF TRANSITION.
6. SEE SITE PLAN FOR ADDITIONAL PARKING SPACEL DIMENSIONS.

SIGN DETAIL

WHITE SYMBOL ON
BLUE BACKGROUND
BLACK 1" LETTERS ON
WHITE BACKGROUND



STRIPING LEGEND

YELLOW CURBING AND BOLLARDS - PARKING LOT	SURFACES SHOULD BE CLEAN, DRY AND METAL SURFACES FREE OF HEAVY RUST 2 COATS SHERWIN WILLIAMS - KEM 4000 ACRYLIC ALKYD ENAMEL SAFETY YELLOW B55V300
STRIPING - PARKING LOT	SURFACES SHOULD BE CLEAN, DRY, TOP COAT SHERWIN WILLIAMS - PRO MAR TRAFFIC MARKING PAINT WHITE TMS494
HANDICAP STRIPING - PARKING LOT	SURFACES SHOULD BE CLEAN, DRY, TOP COAT SHERWIN WILLIAMS - PRO MAR TRAFFIC MARKING PAINT "H.C." BLUE

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

REVISIONS

CES

Crows Engineering Services, LLC

CERTIFICATE OF AUTHORIZATION

P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4085

DRAWN BY:

BC

APPROVED BY:

BC

Brett A. Crews, P.E. 65592

GLOBAL INNOVATION, LLC
COMMERCIAL SITE

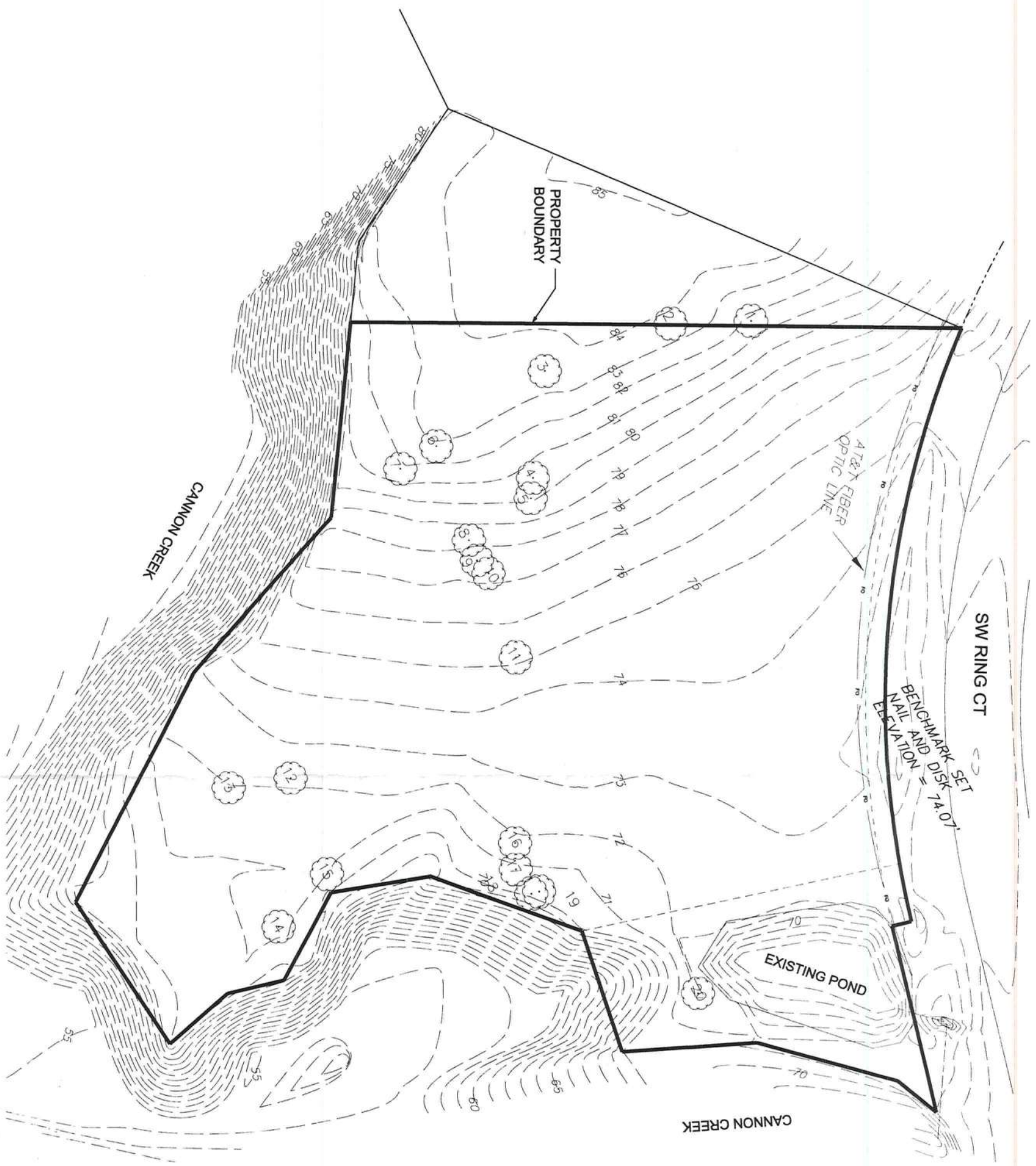
MISCELLANEOUS NOTES
AND DETAILS

CES PROJECT NO.:

2010-008

SHEET:

DET2



TREE TABLE

1. 26" OAK TREE
2. 18" PECAN TREE
3. 15" OAK TREE
4. 18" OAK TREE
5. 18" OAK TREE
6. 24" OAK TREE
7. 48" OAK TREE
8. 18" OAK TREE
9. 18" OAK TREE
10. 18" OAK TREE
11. 48" OAK TREE
12. 30" HICKORY TREE
13. 30" HICKORY TREE
14. 26" OAK TREE
15. 18" CEDAR TREE
16. 34" OAK TREE
17. 30" OAK TREE
18. 18" OAK TREE
19. 12" OAK TREE
20. 24" PINE TREE BENCHMARK ELEVATION = 74.36'

REVISIONS			
DATE	BY	DESCRIPTION	

CES
Crews Engineering Services, LLC

CERTIFICATE OF AUTHORIZATION
NO. 28022
P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4065

DRAWN BY:
BC

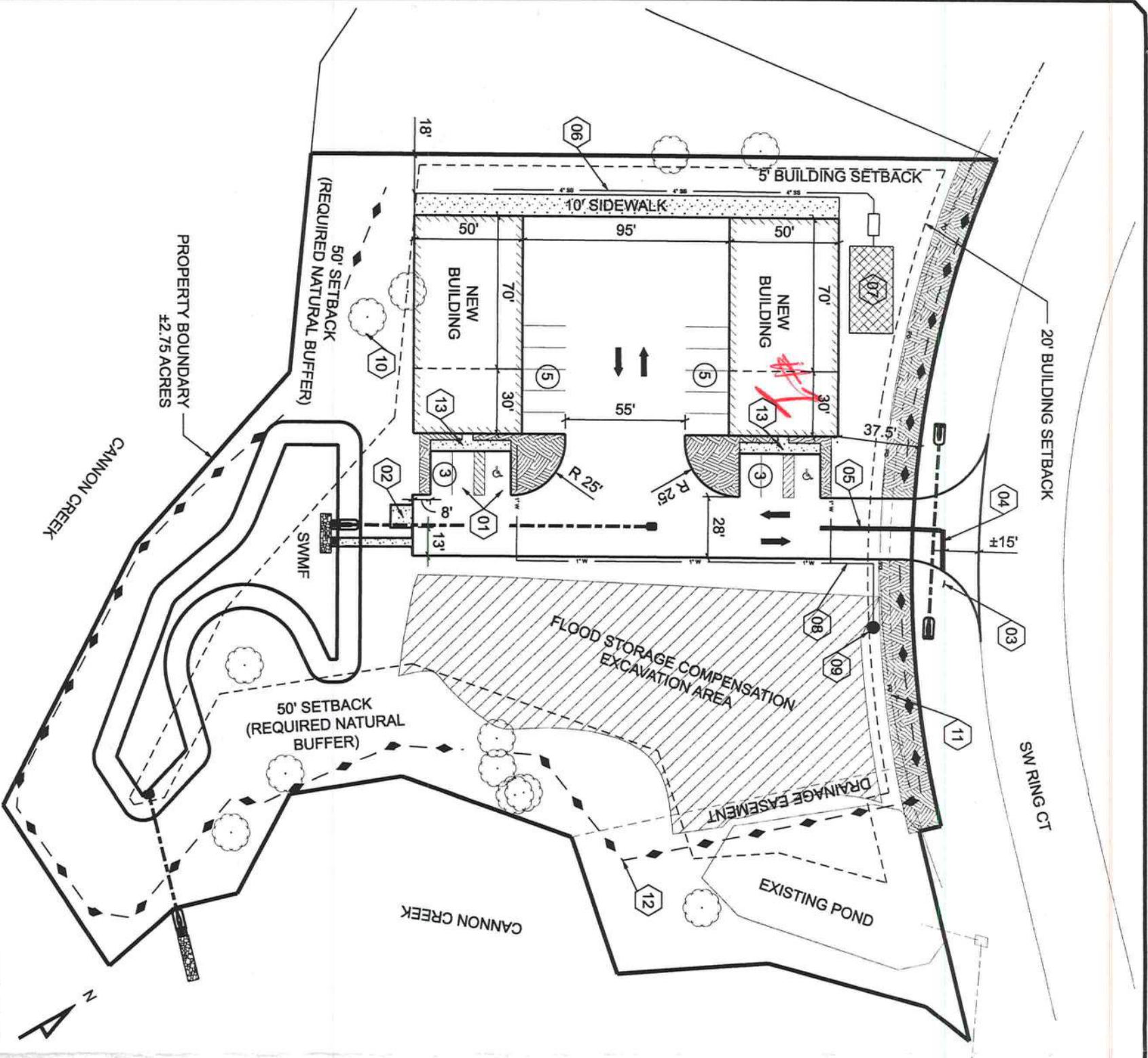
APPROVED BY:
BC

Brett A. Crews, P.E. 65592

GLOBAL INNOVATION, LLC
COMMERCIAL SITE

EXISTING CONDITIONS

CES PROJECT NO.:
2010-008
SHEET:
SIT1



LANDSCAPING
REQUIRED LANDSCAPED AREA:
10% OF NEW PARKING AREA = 13,875 SF * 10% = 1,388 SF
LANDSCAPE AREA PROVIDED = +2,000 SF
REQUIRED TREES
1 TREE PER 200 SF OF REQUIRED LANDSCAPED AREA
OF REQUIRED TREES = 1,388 / 200 = 7 TREES

- NOTES**
- 01 OFFSTREET PARKING (T.Y.P) SEE DETAILS
 - 02 10'X10' CONCRETE DUMPSTER PAD SEE DETAIL
 - 03 30" X 30" FDOT R1-1 "STOP" SIGN FDOT INDEX 11860 AND 17302
 - 04 24" WHITE STOP BAR
 - 05 6" DOUBLE YELLOW
 - 06 4" SANITARY GRAVITY, PLACE CLEANOUTS AS REQUIRED SEE ARCHITECTURAL PLANS FOR CONTINUATION
 - 07 SEPTIC SYSTEM LOCATION
 - 08 1" WATER LINE, ±270 LF SEE ARCHITECTURAL PLANS FOR CONTINUATION
 - 09 WATER WELL
 - 10 EXISTING TREE TO REMAIN (TYP) SHALL BE PROTECTED DURING CONSTRUCTION
 - 11 BURIED FIBER OPTIC CABLE COORDINATE WITH PROVIDER PRIOR TO CONSTRUCTION USE EXTREME CAUTION
 - 12 TYPE IV SILT FENCE, ±1,100 LF FDOT INDEX 102
 - 13 5' WIDE CONCRETE SIDEWALK

LEGEND

- 10 AVAILABLE PARKING SPACES
- TRAFFIC FLOW
- AREA TO BE LANDSCAPED WITH GRASS, PLANTS, SHRUBS AND/OR TREES



LAND USE AND ZONING
FUTURE LAND USE: COMMERCIAL
ZONING: COMMERCIAL HIGHWAY INTERCHANGE
DEVELOPMENT DATA
TOTAL SITE AREA = 119,256 SF = 2.74 ACRES
EXISTING CONDITIONS IMPERVIOUS AREAS
NONE

PROPOSED CONDITIONS IMPERVIOUS AREAS
BUILDING (NEW) = 10,000 SF
ASPHALT PAVEMENT (NEW) = 17,900 SF
CONCRETE PAVEMENT (NEW) = 2,200 SF
TOTAL IMPERVIOUS AREA = 30,100 SF (25.23% SITE AREA)
FAR = 10,000 SF / 119,256 SF = 0.083
MINIMUM BUILDING/YARD SETBACKS PER LDR
FRONT YARD = 20'
SIDE YARD = 5'
REAR YARD = 15'

PARKING CALCULATIONS
COMMERCIAL SERVICE (SHOWROOM):
1 SPACE PER 150 SF NON-STORAGE FLOOR AREA
REQUIRED PARKING = 1000 SF / 150 = 7 SPACES

OFFICE SPACE:
1 SPACES PER 500 SF OF FLOOR AREA
REQUIRED PARKING = 2,000 SF / 500 = 4 SPACES

WAREHOUSING AND STORAGE:
1 SPACE PER 1,500 SF OF FLOOR AREA
REQUIRED PARKING = 7,000 SF / 1500 = 5 SPACES

ACCESSIBLE PARKING :
1 PER 25 REQUIRED SPACES = 1 SPACE

STANDARD PARKING PROVIDED = 14 SPACES
ACCESSIBLE PARKING PROVIDED = 2 SPACE

BOUNDARY AND TOPOGRAPHICAL SURVEY
THE BOUNDARY AND TOPOGRAPHICAL SURVEY INFORMATION SHOWN IN THESE PLANS IS BASED ON A SURVEY BY BRITT SURVEYING AND ASSOCIATES, INC., LB 7593

ELEVATIONS BASED ON NAVD 88 DATUM

UTILITIES
WATER SERVICE: TO BE PROVIDED BY PRIVATE WELL, DESIGN AND PERMITTED BY OTHERS

WASTEWATER SERVICE: TO BE PROVIDED BY PRIVATE ON-SITE SEPTIC SYSTEM, DESIGNED AND PERMITTED BY OTHERS
ELECTRIC SERVICE: PROVIDED BY CONNECTION TO CLAY ELECTRIC FACILITIES

DRAINAGE
THE PROPOSED STORMWATER MANAGEMENT SYSTEM IS DESIGNED TO MEET SRWMD RULES AND REGULATIONS AS A DRY RETENTION FACILITY

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION
06-02-2011	BC	REVISED SITE				

CES
CERTIFICATE OF AUTHORIZATION
NO. 28022
P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4085
Crows Engineering Services, LLC

Brett A. Crews
6/3/2011
Brett A. Crews, P.E. 65592

DRAWN BY:	BC	GLOBAL INNOVATION, LLC COMMERCIAL SITE	CES PROJECT NO.:
APPROVED BY:	BC		2010-008
		SITE PLAN	SHEET: SIT2

-

NOTES

BEGIN / END 6" HEADER CURB
+45 LF (TOTAL)

02
CONCRETE MITERED END SECTION
FDOT INDEX 273

03 REGRADE EXISTING DITCH
ENSURE POSITIVE DRAINAGE



04
3' WIDE CONCRETE FLUME
SEE DETAIL

SWP-3
18" HDPE PIPE, ±96 LF

06
SWS-2
TYPE C INLET
FDOT INDEX 232
GRATE EL=75.0
18" INV EL=72.0

SWP-2
18" HDPE PIPE ±142 LF

— 000.00	PROPOSED EDGE OF PAVEMENT ELEVATION
— TP 00.00	PROPOSED TOP OF PAVEMENT
— TS 00.00	PROPOSED TOP OF SIDEWALK ELEVATION
— EX +00.00	MATCH EXISTING GRADE
	PROPOSED EDGE OF PAVEMENT ELEVATION

 SHEET FLOW
 CHANNEL FLOW

 DENOTES STANDARD DUTY ASPHALT PAVEMENT
WITH WHITE PARKING STRIPING
SEE DETAIL

DENOTES CONCRETE PAVEMENT

28'

PROPERTY
BOUNDARY

☉ DRAINAGE
SWALE

Diagram illustrating the cross-section of a building foundation and slope. The diagram shows a building footprint (BUILDING FF) on a 6" concrete sidewalk. A slope (SLOPE TO) leads down to the ground (GROUND). The slope is labeled with a grade of $S = \pm 1.0\%$. A property boundary line is shown adjacent to the sidewalk.

**NOTE:
SOD SIDE SLOPES**

SECTION A

NTS -

DRAWN BY:

BC

BC

Project No.:

**GLOBAL INNOVATION, LLC
COMMERCIAL SITE**

SHEET:

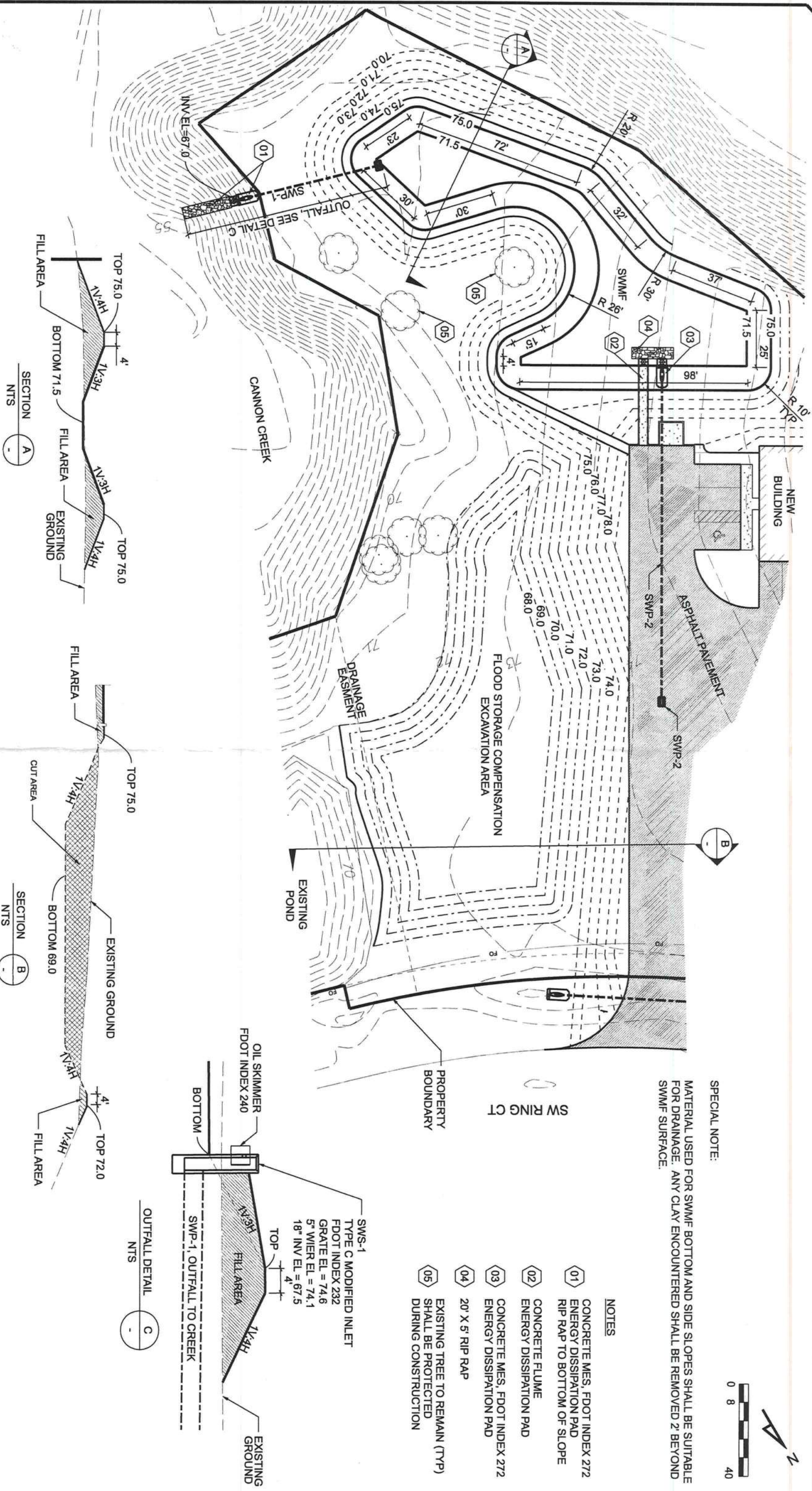
PAV1

CES
Crow's Engineering Services, LLC

CERTIFICATE OF AUTHORIZATION

**P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4085**

Brett A. Crews, P.E. 65592

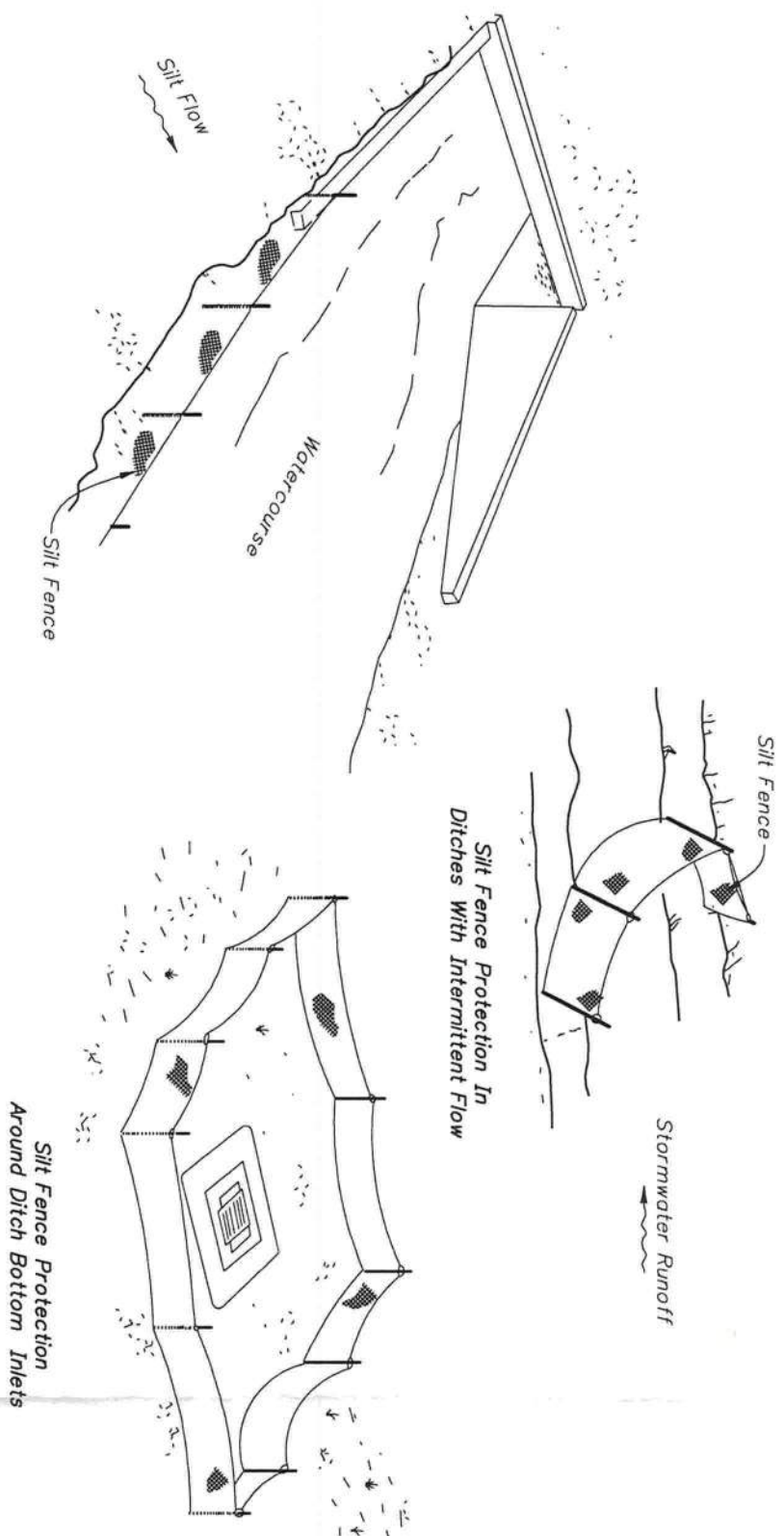
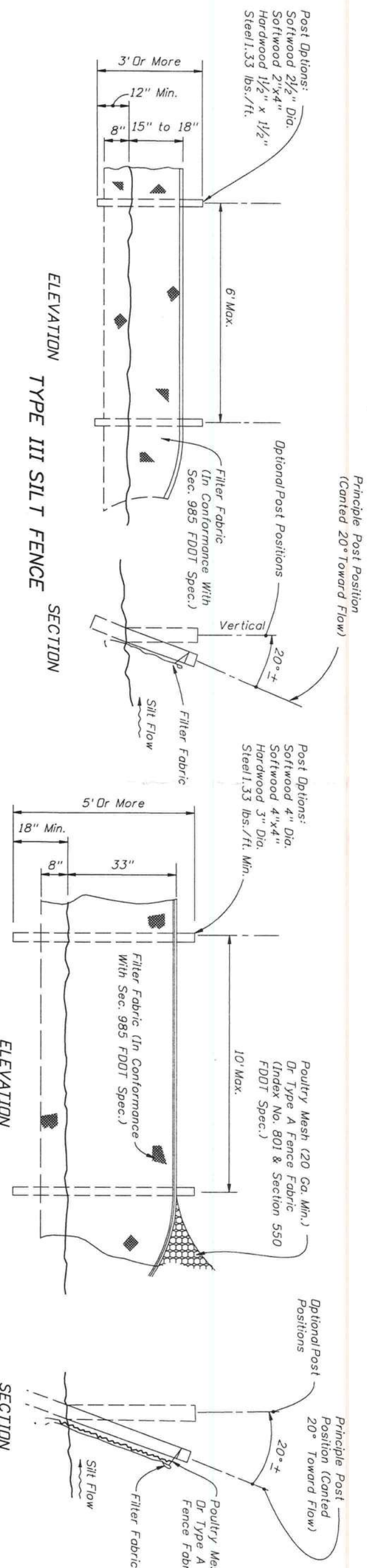


REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
6-2-11	JK	REVISED SWMF			

	P.O. BOX 970 LAKE CITY, FL 32056 PHONE: 386.754.4085
CERTIFICATE OF AUTHORIZATION NO. 28022	

 Brett A. Crews, PE, 655592	DRAWN BY: BC APPROVED BY: BC
---	---

GLOBAL INNOVATION, LLC COMMERCIAL SITE	CES PROJECT NO.: 2010-008
SURFACE WATER MANAGEMENT SYSTEM	SHEET: SWM1



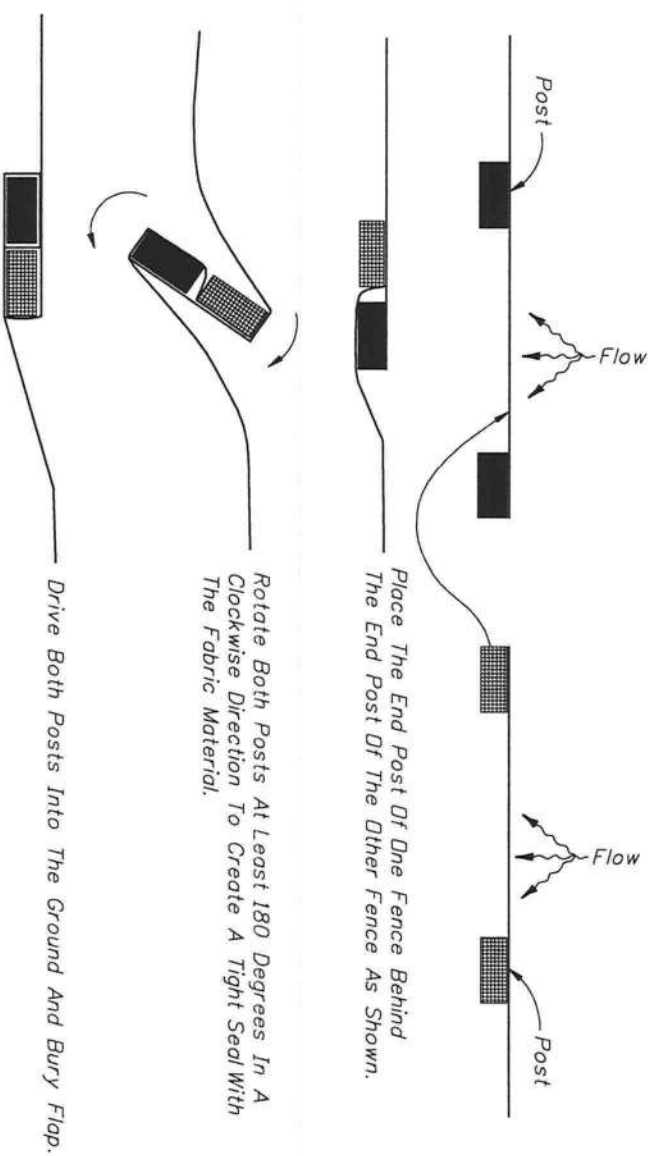
SILT FENCE APPLICATIONS

NOTES FOR SILT FENCES

1. Type III Silt Fence to be used at most locations. Where used in ditches, the spacing for Type III Silt fence shall be in accordance with Chart 1, Sheet 1.
2. Type IV Silt Fence to be used where large sediment loads are anticipated. Suggested use is where fill slope is 1:2 or steeper and length of slope exceeds 25 feet. Avoid use where the detained water may back into travel lanes or off the right of way.
3. Do not construct silt fences across permanent flowing watercourses. Silt fences are to be at upland locations and turbidity barriers used at permanent bodies of water.
4. Where used as slope protection, Silt Fence is to be constructed on 0% longitudinal grade to avoid channelizing runoff along the length of the fence.
5. Silt Fence to be paid for under the contract unit price for Staked Silt Fence, (L.F.).

PLAN VIEW

JOINING TWO SILT FENCES



2010 FDOT Design Standards

TEMPORARY EROSION AND SEDIMENT CONTROL

Last
Revision
07/01/05

Sheet No.
3 of 3

Index No.
102