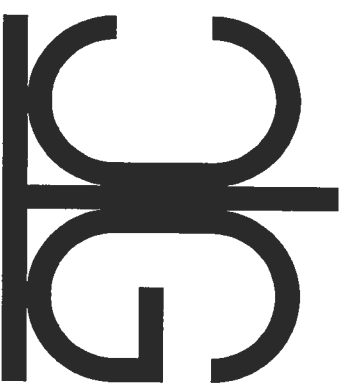


GRACE COVENANT CHURCH

SITE PLAN



STRUCTURAL/CIVIL ENGINEERS

GTC Design Group

P.O. Box 187

176 NW Lake Jeffery Rd.

Lake City FL, 32055

Phone: (386) 719-9985

Fax: (386) 362-6133

Brett A. Crews, PE 65592

Auth. #: 9461

FOR:

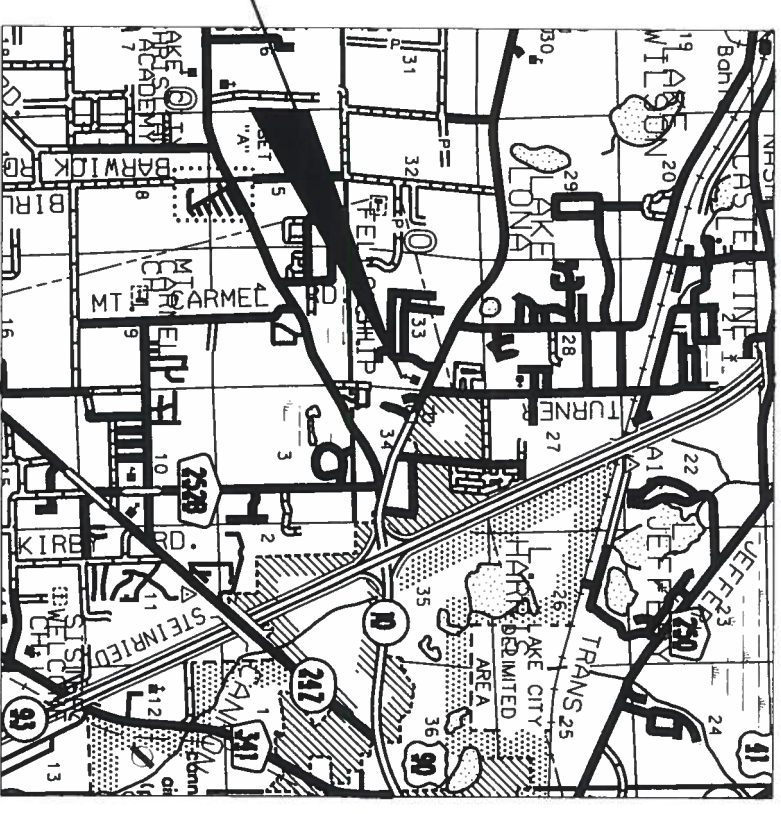
Rick Carson

221 Lake Neff Rd

Winter Haven, FL. 33884

Phone: 863.206.2215

PROJECT LOCATION



LOCATION MAP

SECTION 33, TOWNSHIP 3 SOUTH, RANGE 16 EAST
COLUMBIA COUNTY, FLORIDA

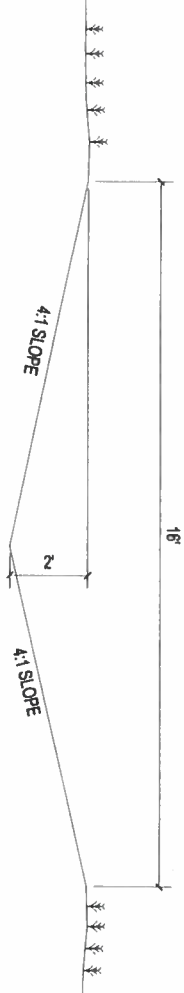
INDEX OF SHEETS

- 1 GENERAL NOTES & DETAILS
- 2 EXISTING CONDITIONS
- 3 SITE PLAN
- 4 EROSION CONTROL NOTES & DETAILS

GTC PROJECT NUMBER:

PF07-018

[Handwritten signature]
16-10-07



SWALE DETAIL

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. Boundary and topographical information shown was obtained from a survey performed by Donald F. Lee & Associates, Inc., P.S.M. Florida Certificate #7042.

GENERAL NOTES

4. 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.

5. The site is located in Section 33, Township 3 South, Range 16 East, Columbia County, Florida.

6. Contractors shall adhere to the Erosion Control Plan. All erosion control measures shall be implemented prior to construction and be continued until construction is complete.

7. 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.

8. A pad of rubble riprap shall be placed at the bottom of all collection flumes and collection pipe outlets.

9. The location of the utilities shown in the plans is approximate only. The exact location shall be determined by the contractor during construction.

10. The contractor shall waste all excess earth on site as directed by the engineer.

11. All site construction shall be in accordance with the Columbia County Land Development Regulations.

12. Contractor shall provide an as-built survey meeting the requirements of Chapter 61G17 F.A.C. for the stormwater management systems. Include horizontal and vertical dimensional data so that improvements are located and delineated relative to the boundary. Provide sufficient detailed data to determine whether the improvements were constructed in accordance with the plans. Submit the survey to the engineer on reproducible 20 lb. vellum.

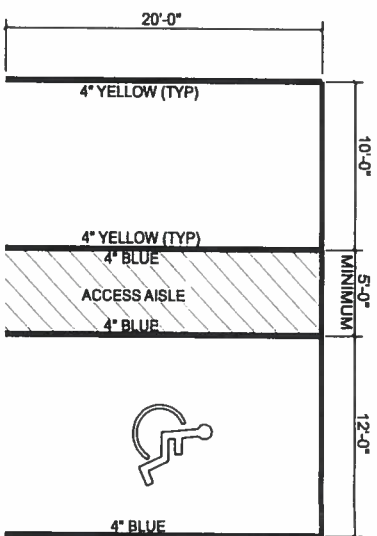
13. Contractor shall review and become familiar with all required utility connections prior to bidding. Contractor shall provide all work and materials required to complete connection to the existing utilities. This includes, but is not limited to, manhole coring, wet taps, pavement repairs and directional boring.

- 14. Contractor shall coordinate all work with other contractors within project limits**

15. Contractor shall sod all slopes of 3' horizontal to 1' vertical and staple sod all slopes of 2' horizontal to 1' vertical.

16. All construction of armament shown in these plans shall conform to FDOT indexes and specifications.

17. All stormwater pipes shall have a minimum cover of 6". Use Limerock backfill if pipe under pavement has less than 12" cover.



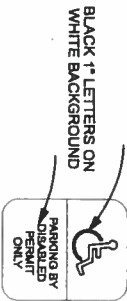
5' HANDICAPPED AISLE MAY BE PLACED ON THE RIGHT OR LEFT SIDE OF PARKING STALL.

PAVING SHALL BE 3 OR 5 FT. HIGH AND BLUE IN COLOR.

SEE SITE PLAN FOR ADDITIONAL
PARKING STALL DIMENSIONS.

PARKING STALL DETAIL

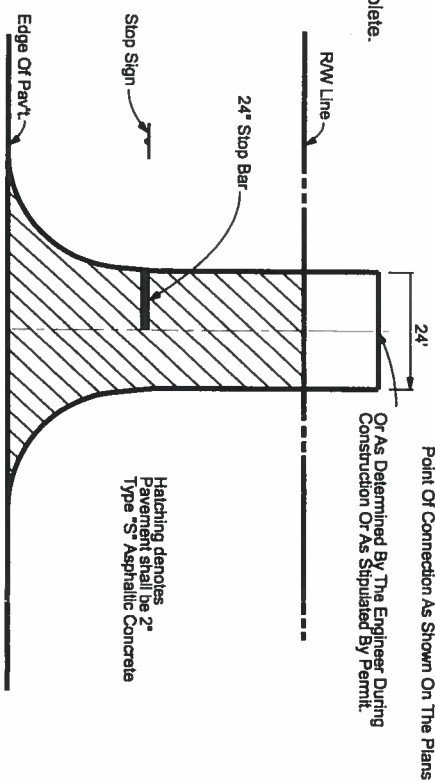
NTS



WHITE SYMBOL ON
BLUE BACKGROUND

**BLACK ↑ LETTERS ON
WHITE BACKGROUND**

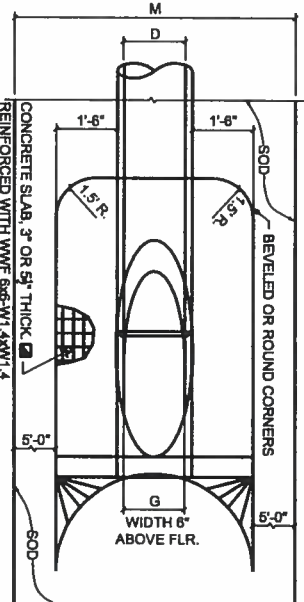
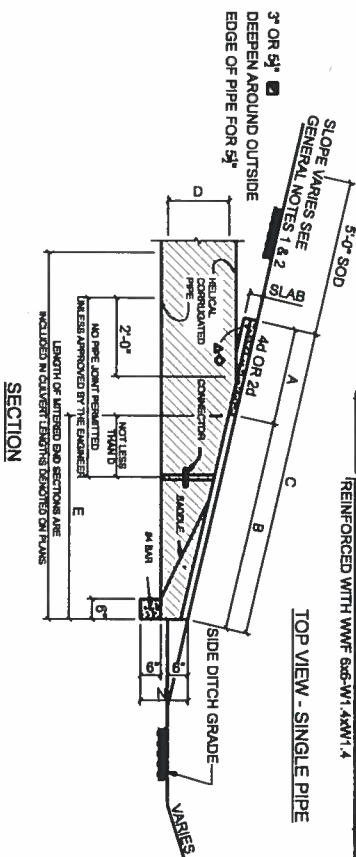
DISABILITIES
PERMIT
ONLY



CONNECTION DETAIL

NTS

1. Completion of clearing and grubbing. Visual only – no test requirements.
2. Rough graded and drainage structures in place. Test results L,B,R. – pipe backfill density.
3. Subgrade complete. Test results – density.
4. Limerock placed and finished. Test results – thickness, cross-section and density.
5. Asphaltic concrete in place. Test results – thickness and density.
6. Final inspection for acceptance to be performed by county engineer, public works director and county commissioner. (should he/she desire to attend).
7. The developer/contractor shall be responsible for notifying the director of public works representative when each construction phase is ready for inspection.



DIMENSIONS AND QUANTITIES													
4d SLOPE	D	X	A	B	C	E	F	G	M SINGLE PIPE	CONC. (gy)		CONC. (bv)	
										N	SINGLE PIPE	SINGLE PIPE	SINGLE PIPE
15°	2'-7"		2.5'	3.08'	5.58'	3.0'	7'	1.23'	4.33'	1.04'	0.44		22
18°	2'-10"		2.5'	4.12'	6.62'	4.0'	8'	1.41'	4.58'	1.04'	0.49		24
24°	3'-5"		2.5'	6.18'	8.68'	6.0'	10'	1.73'	5.08'	1.04'	0.65		27

PARKING APRON

1.25" TYPE S ASPHALT
6" LIMEROCK BASE
8" COMPACTED SUB-GRADE

NOTE: SUBGRADE SHALL BE COMPACTED TO 98% OF MAXIMUM DRY DENSITY AS ESTABLISHED BY ASTM T-99.

SEE GRADING
PLAN FOR
- ELEVATIONS

STABILIZE DISTURBED AREAS

REVISION NOTES

DATE _____

**P.O. Box 187
130 West Howard Street
Live Oak FL, 32064
Phone: (386) 362-3678
Fax: (386) 362-6133**

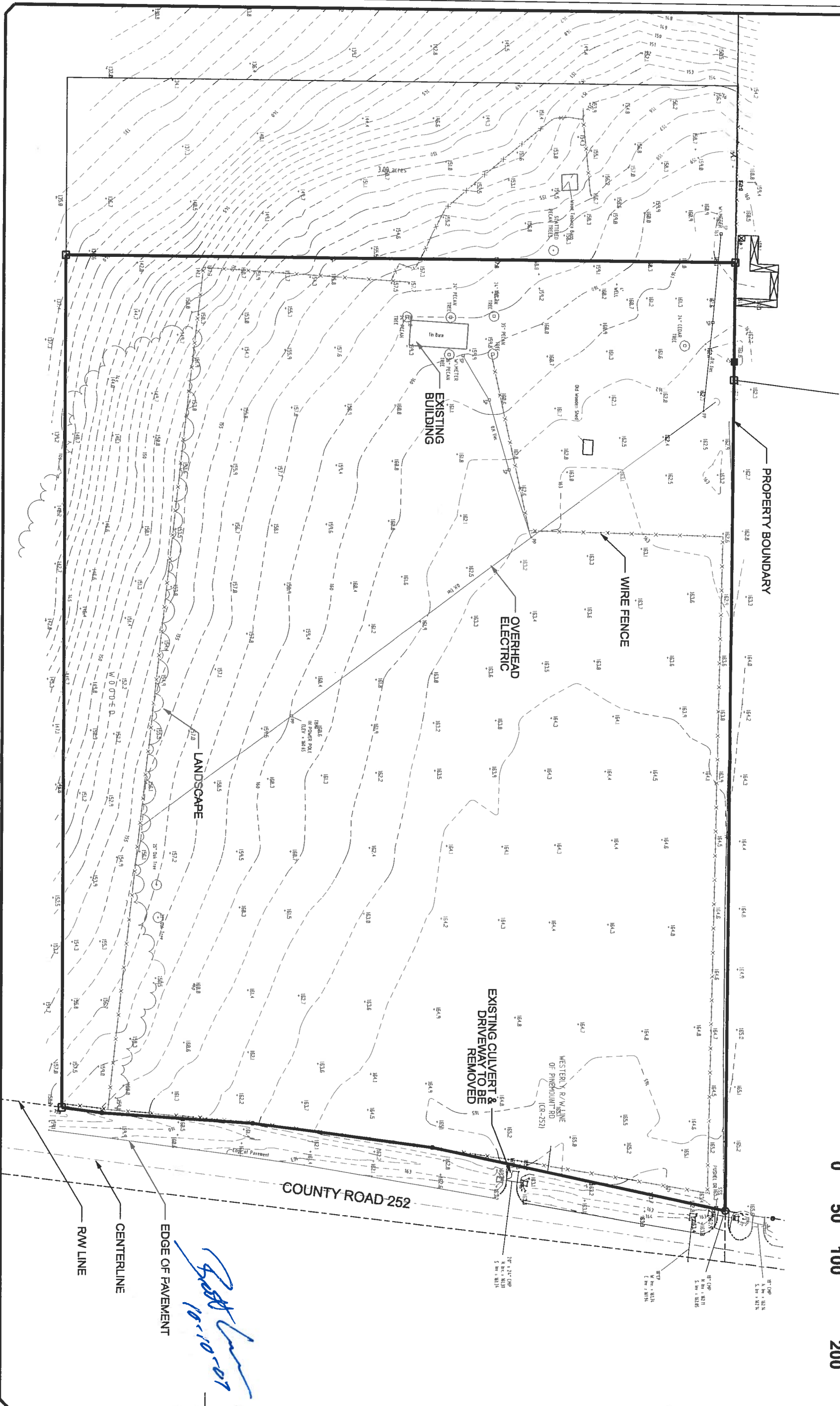
**STRUCTURAL/CIVIL ENGINEERS**

GRACE COVENANT CHURCH GENERAL NOTES & HANDICAP PARKING DETAIL

PROJECT NUMBER

PF07-018

SHEET



DATE	REVISION NOTES

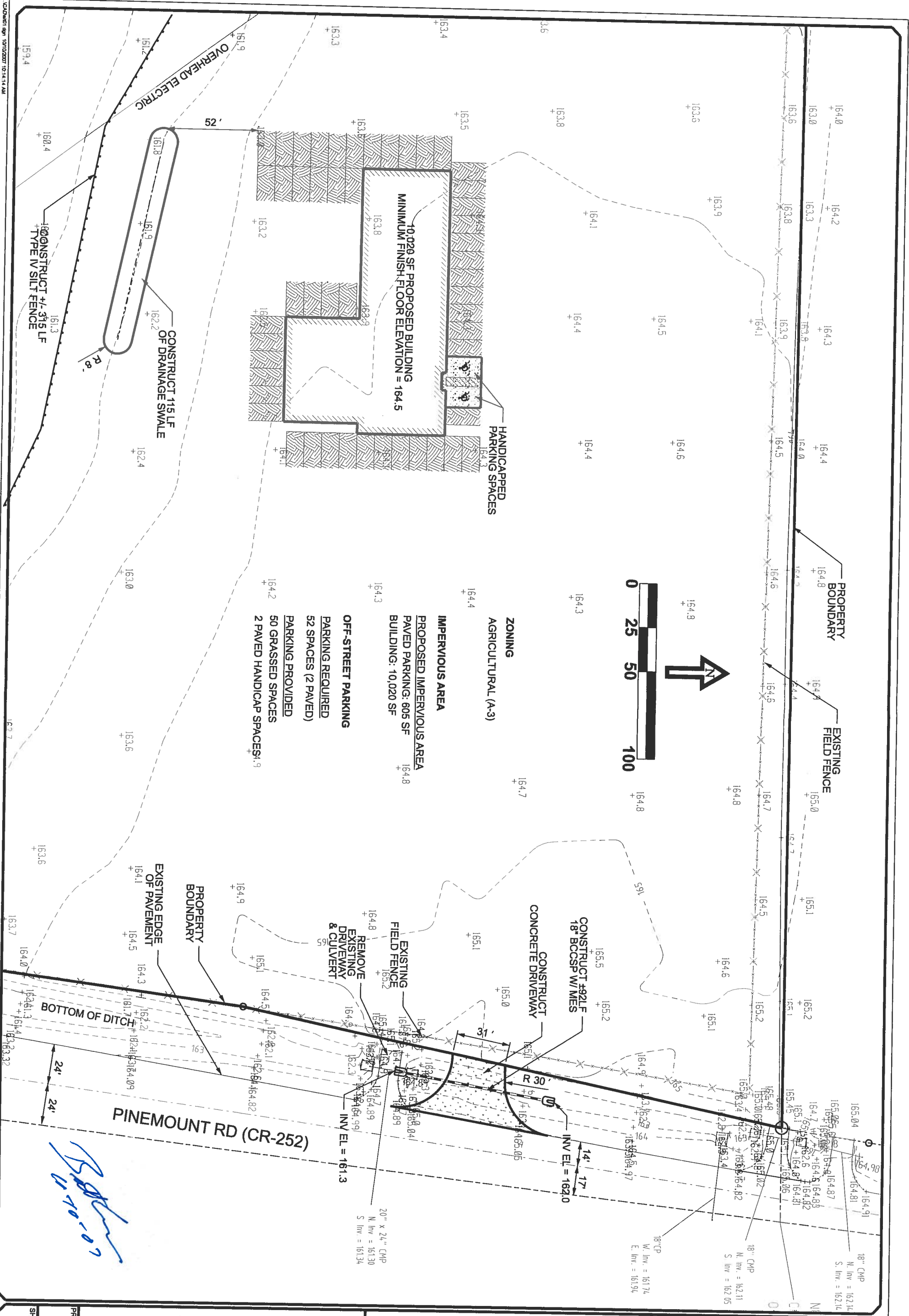
P.O. Box 187
130 West Howard Street
Live Oak FL, 32064
Phone: (386) 362-3678
Fax: (386) 362-6133



GRACE COVENANT CHURCH
EXISTING CONDITIONS

PROJECT NUMBER
PF07-018

SHEET
2



DATE	REVISION NOTES

CG
STRUCTURAL/CIVIL ENGINEERS

P.O. Box 187
130 West Howard Street
Live Oak FL, 32064
Phone: (386) 362-3678
Fax: (386) 362-6133

GRACE COVENANT CHURCH

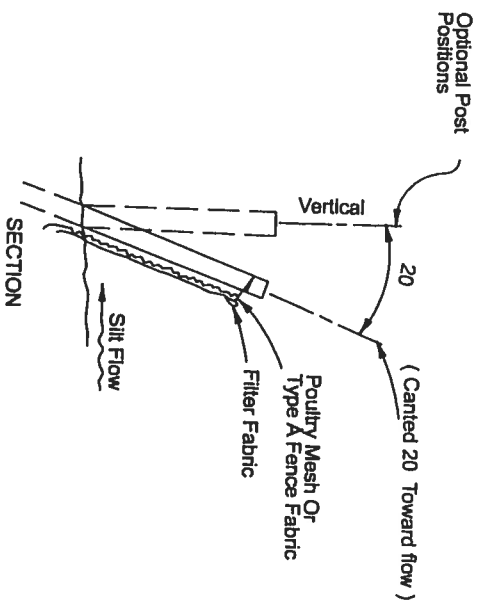
SITE PLAN

PROJECT NUMBER
PF07-018

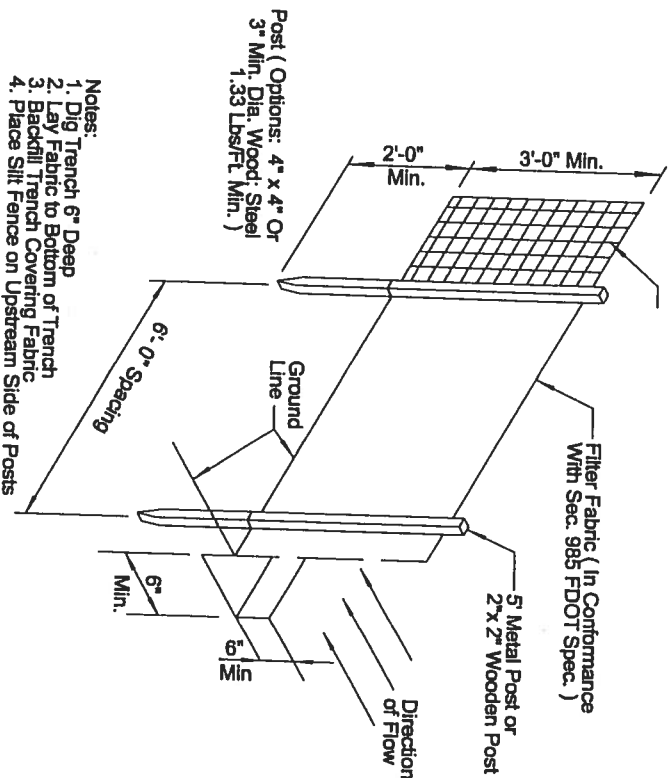
SHEET
3

EROSION CONTROL NOTES

- Contractor shall adhere to Columbia County, SRWMD and other governing authorities for erosion and sediment control regulations. Contractor shall use BMP's from "The Florida Development Manual".
- Sediment and erosion control facilities, storm drainage facilities and detention basins shall be installed prior to any other construction.
- Erosion control measures shall be inspected weekly and after each rainfall and replaced as necessary.
- Sediment and erosion control measures shall not be removed until all construction is complete and until a permanent ground cover has been established.
- All open drainage swales shall be grassed and riprap shall be placed as required to control erosion.
- Silt fences shall be located on site to prevent sediment and erosion from leaving right-of-way limits.
- Additional erosion control devices shall be used as required.
- Silt fence shall be cleaned or replaced when silt builds up to within one foot of top of silt fence.
- During construction and after construction is complete, all structures shall be cleaned of all debris and excess sediment
- All grades areas shall be stabilized immediately with a temporary fast-growing cover and/or mulch.
- A pad of rubble riprap shall be placed at the bottom of all collection flumes and collection pipe outlets.
- 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.
- Staked silt fences shall be placed near all box culvert extensions in accordance with FDOT Standard Index 102.
- Disturbed areas shall be stabilized with sodding and grassing and mulching. All side slopes steeper than 3:1 shall be adequately protected from erosion through the use of hay bales or sodding.
- 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.
- If the proposed erosion control plan does not work, the contractor should use the BMP's in the Florida Erosion and Sediment Control Inspector's manual to implement a plan that will work and meet actual field conditions.
- All waste generated on the project shall be disposed of by the contractor in areas provided by contractor.
- Loaded haul trucks shall be covered with tarps.
- Excess dirt shall be removed daily.
- Fertilizer shall be applied as specified in the plans and specifications.
- This project shall comply with all water quality standards. Permit required from SRWMD has been obtained.
- All pollution controls shall be maintained at all times.
- Straw bales shall be placed to remove sediment. Straw bales shall be replaced after three (3) months or when sediment reaches one-half (1/2) the height of the bales.
- Qualified personnel shall inspect the area used for storage of stockpiles, the silt fence and straw bales, the location where vehicles enter or exit the site, and the disturbed areas that have not been finally stabilized, at least once every seven (7) calendar days and within 24 hours of the end of a storm of 0.2 inches or greater.
- Sites that have been finally stabilized with sod or grassing shall be inspected at least once every week.
- Contractor is responsible for the construction and maintenance of all erosion and sedimentation controls during proposed construction.

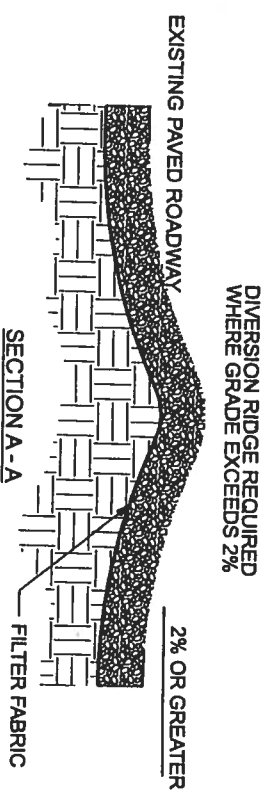


Poultry Mesh (20 Ga. Min.)
Or Type A Fence Fabric
(Index No. 451 & Sec. 966
FDOT Spec.) - Where Required

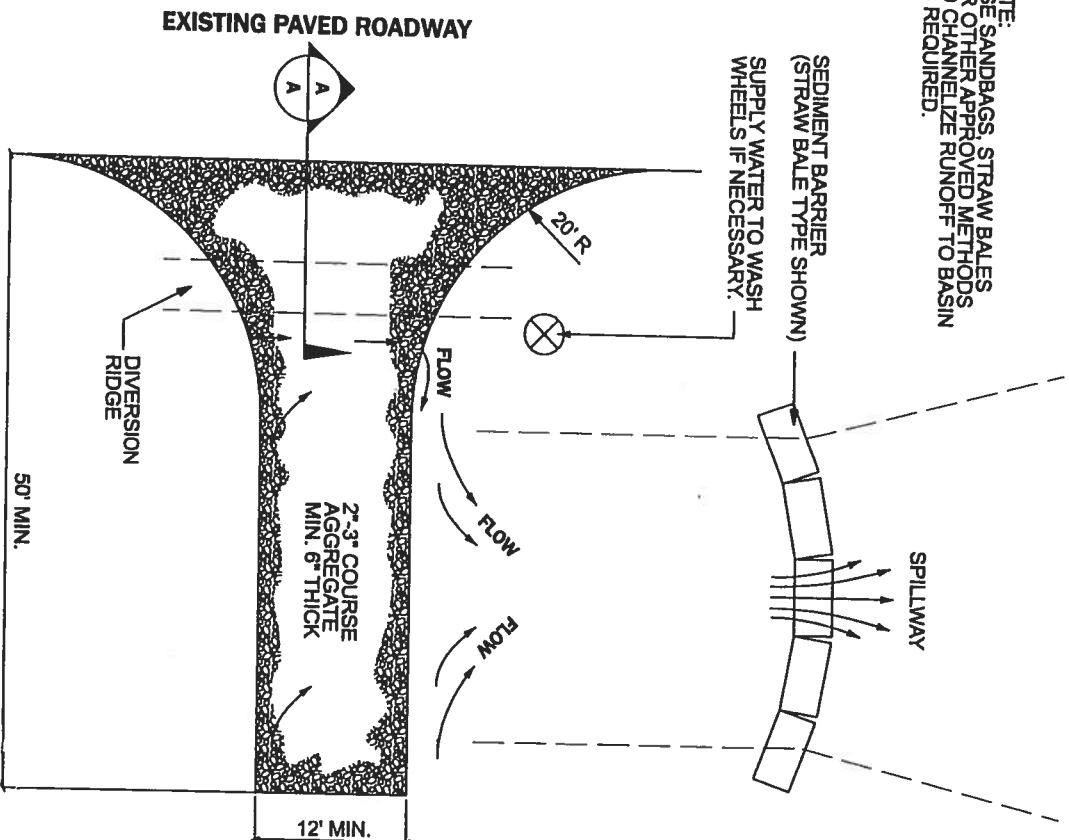


TYPE IV SILT FENCE

AS COMPARED TO TYPE III SILT FENCE, TYPE IV FENCE HAS GREATER STRENGTH AND HEIGHT WHICH REDUCES THE POSSIBILITY OF SEDIMENT AND WATER FROM OVERTOPPING THE FENCE. AS A RESULT, AVOID USING TYPE IV FENCE IN AREAS WHERE THE DETAINED WATER WOULD BACK INTO TRAVEL LANES OR OFF THE RIGHT OF WAY.



NOTE:
USE SANDBAGS, STRAW BALES
OR OTHER APPROVED METHODS
TO CHANNELIZE RUNOFF TO BASIN
AS REQUIRED.



TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
PLAN
NTS

NOTES:
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE DRAINS ONTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.



P.O. Box 187
130 West Howard Street
Live Oak FL, 32064
Phone: (386) 362-3678
Fax: (386) 362-6133

DATE REVISION NOTES

GRACE COVENANT CHURCH
EROSION CONTROL
NOTES & DETAILS

PROJECT NUMBER
PF07-018