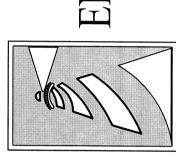


VICINITY MAP (NOT TO SCALE):

**REVISIONS** 

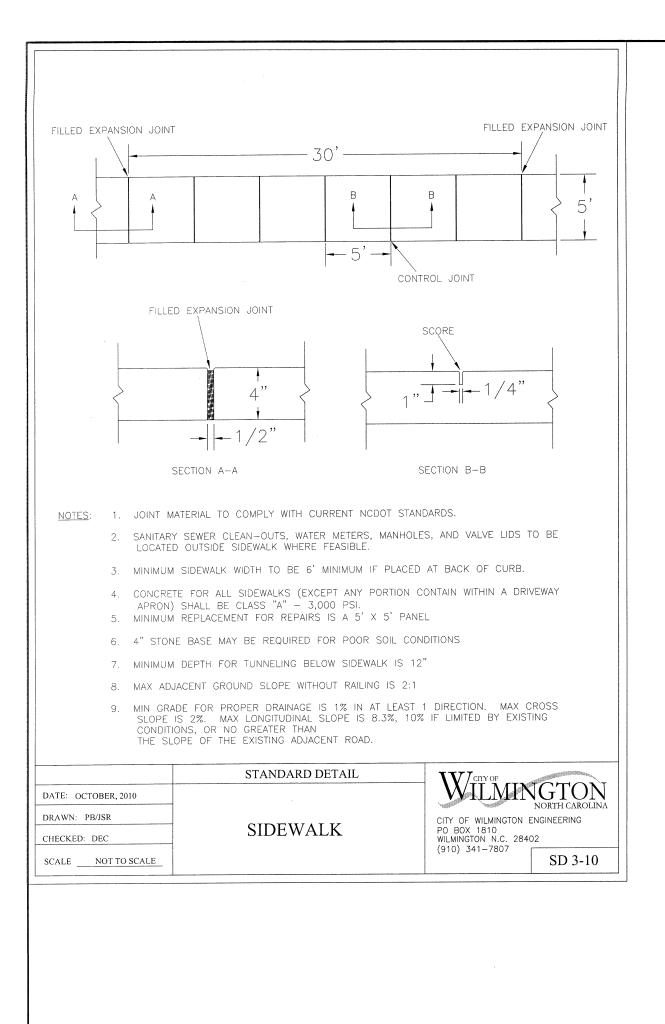


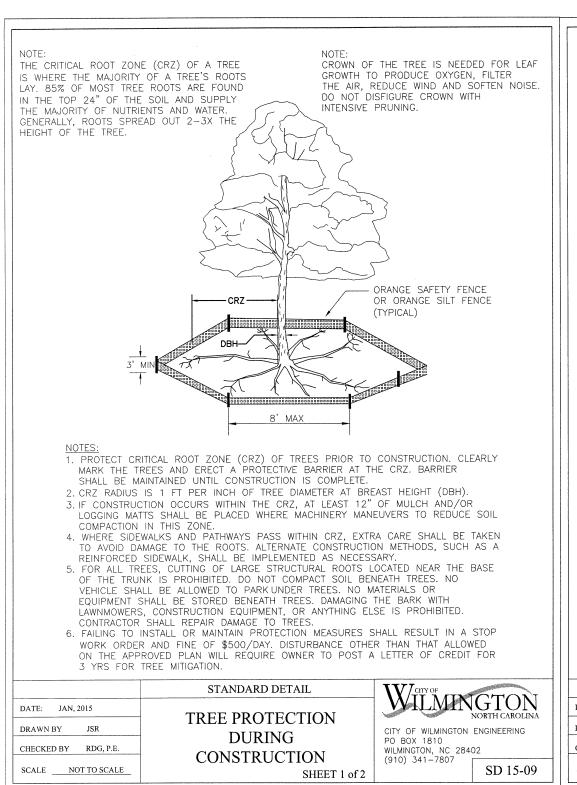
**CLIENT INFORMATION** Peace Baptist Church, Inc Pastor Rudy Shepard 320 Military Cutoff Rd.

Wilmington NC 28403 910-791-4034 preachershepard@bellsouth.net

JAE | SHEET SIZE: CDC DATE: APPROVED: CDC | SCALE: 1" = 30' PROJECT NUMBER: 2017-019

DRAWING NUMBER: C-1





Cap flush with

4 to 6 in. diameter

perforated pipe

Insert 4 to 6 in.

PERMEABLE CONCRETE

MONITORING WELL

NOTE: SUBGRADE MUST BE EITHER SCARIFIED, RIPPED, OR TRENCHED TO MAINTAIN THE PRE-CONSTRUCTION

SUBGRADE INFILTRATION RATE.

PERVIOUS CONCRETE SECTION

into soil subgrade

6" PERVIOUS

6" MINIMUM

**SUBGRADE** 

/-6" X 12"

**CURB** 

CONVENTIONAL

**ASPHALT** 

CONCRETE

CONCRETE HEADER CURB

**EXTENDING TO BOTTOM** 

OF PERMEABLE BASE

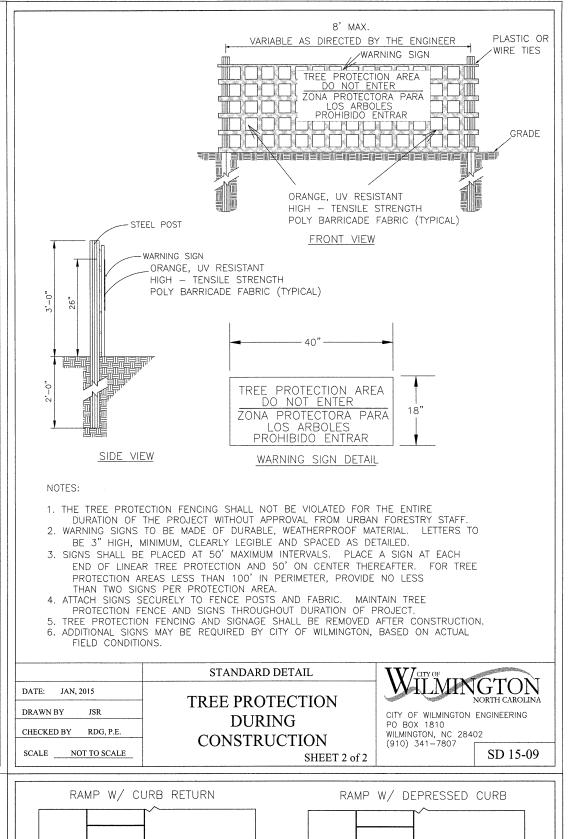
**HEADER** 

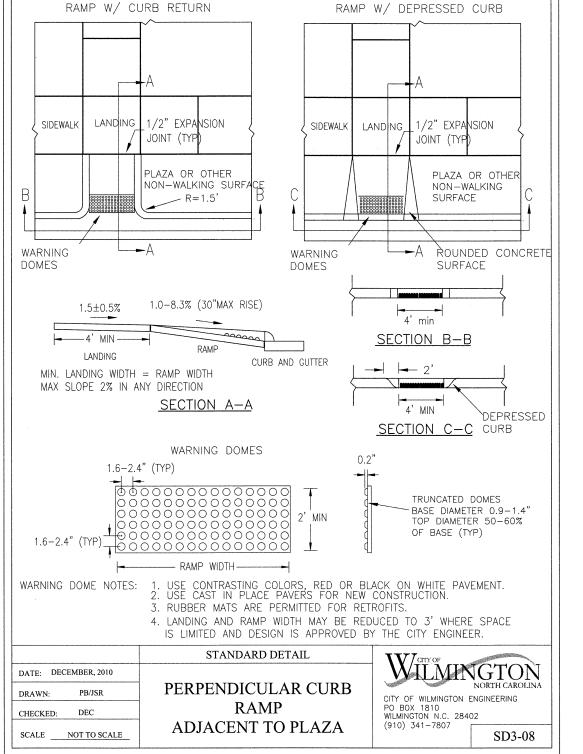
IN SITU SOIL

#57 STONE (WASHED)

CONCRETE

pavement





1.5±0.5%	1.0-8.3% (30"MAX RISE)		- <sub>4</sub> ,			
4' MIN—LANDING	RAMP CURB AND GL		SECTIO	N B-B		
N. LANDING WIDTH X SLOPE 2% IN A	= RAMP WIDTH	\	-	2'		
			SECTIO	DEPRE N C-C CURB	ESSED	
1.6-2.4	WARNING DOMES 4" (TYP)	0.2	, <b>⊢</b>			
00	- 000000000000000000000000000000000000	MIN	BA TO	UNCATED DOMES SE DIAMETER 0.9— P DIAMETER 50—60 BASE (TYP)		
TO BOME HOTES.	2. USE CAST IN PLACE PAVER 3. RUBBER MATS ARE PERMITT 4. LANDING AND RAMP WIDTH IS LIMITED AND DESIGN IS	ED FOR RETE MAY BE REDI	ROFITS. JCED TO	3' WHERE SPACE		
	STANDARD DETAIL	_	<b>W</b>	TYOF		
DECEMBER, 2010 PB/JSR	PERPENDICULAR RAMP	CURB	CITY OF W	NORTH CA VILMINGTON ENGINEERING 810		
NOT TO SCALE	ADIACENT TO PLAZA (910) 341–7807			3-08		
	SYMBOL	G	ROUND	STABILIZATION	N CRITERIA	
		SITE AI DESCRIP		STABILIZATION TIMEFRAME	STABILIZATION TIMEFRAME EXCEPTIONS	
		* Perimete ditches and		7 Days	None	
		* High Q Water (F		7 Days	None	

SYMBOL	GROUND STABILIZATION CRITERIA		
	SITE AREA DESCRIPTION	STABILIZATION TIMEFRAME	STABILIZATION TIMEFRAME EXCEPTIONS
	* Perimeter dikes, ditches and slopes	7 Days	None
	* High Quality Water (HQW) Zones	7 Days	None
	* Slopes Steeper than 3:1	7 Days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
\(\psi\) \(\	* Slopes 3:1 or flatter	14 Days	7-days for slopes greater than 50 ft. in length
\(\psi\) \(\	* All other areas with slopes flatter than 4:1	14 Days	None (except for perimeters & HQW Zones)

STREAMS UNLESS NO REASONABLE ALTERNATIVES ARE AVAILABLE. WATERS, WETLANDS, OR BUFFERS.

SAME WEEKLY REOUIREMENTS INSPECTION REPORTS MUST BE AVAILABLE ON-SITE DURING BUSINESS HOURS

UNLESS A SITE-SPECIFIC EXEMPTION IS APPROVED. - RECORDS MUST BE KEPT FOR 3 YEARS AND AVAILABLE UPON REQUEST. - ELECTRONICALLY AVAILABLE RECORDS MAY BE SUBSTITUTED UNDER CERTAIN

DRAINAGE AREA IS LESS THAN 1 ACRE. - USE ONLY DWQ APPROVED FLOCCULANTS

anchoring tool.

**SITE WORK NOTES** 

1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS BOTH ON AND ADJACENT TO THE SITE

THE CONTRACTOR SHALL FURNISH SUITABLE BORROW MATERIAL FROM AN OFF-SITE PROPERLY PERMITTED FACILITY AS REQUIRED.

16. THE CONTRACTOR SHALL PROVIDE ANY AND ALL LAYOUT REQUIRED TO CONSTRUCT HIS WORK UNLESS OTHERWISE DIRECTED BY OWNER.

20. CONCRETE FOR WALKS, CURBS AND DRIVES SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI @ 28 DAYS - AIR ENTRAINED.

22. ALL SIDEWALKS SHALL BE FREE OF CRACKS, BREAKS, OR ANY OTHER DEFECT PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY

REPAIRED OR REPLACED IF IT BECOMES HALF FULL OF SEDIMENT, NO LONGER DRAINS AS DESIGNED OR IS DAMAGED.

MATERIAL OR ANY OTHER UNSUITABLE MATERIAL WITHIN LIMITS OF CONSTRUCTION.

FILL AND COMPACTION SHOULD COMPLY WITH GEOTECHNICAL RECOMMENDATIONS.

FILL QUANTITIES AND COMPLETE INSTALLATION TO SPECIFIED GRADES.

EXCAVATE, IN WRITING, NOT LESS THAN 10 DAYS PRIOR TO EXCAVATING.

14. EXISTING SURVEYING PERFORMED BY STUART Y. BENSON, N.C. PLS L-2675

SLOPED TO DRAIN AWAY FROM BUILDINGS AT ALL TIMES.

SOON AS POSSIBLE AFTER BEGINNING CONSTRUCTION.

**SEEDING MIXTURE SPECIES** 

LATE WINTER & EARLY SPRING:

and Coastal Plain, Korean in Mountains)

Omit annual Iespedeza when duration

of temporary cover is not to extend beyond June

Annual Iespedeza (Kobe in Piedmont

In the Piedmont and Mountains,

a small-stemmed sundangrass may be

LATE WINTER & EARLY SPRING:

Mountains - Above 2500 ft: Feb. 15-May 15

Coastal Plain and Piedmont - Aug. 15-Dec. 30

limestone and 750 lb/acre 10-10-10 fertilizer.

substituted at a rate of 50 (lb/acre)

CONTRACTORS COST AS NECESSARY

THE CONTRACTOR.

COMPLETION.

Rye (grain)

SUMMER: German Millet

Rye (grain)

**SUMMER:** 

**SEEDING DATES** 

Piedmont - Jan. 1-May 1

Coastal Plain - Dec. 1-Apr. 15

Mountains - May 15-Aug. 15

Coastal Plain - Apr. 15-Aug. 15

Mountains - Aug. 15-Dec. 15

**SOIL AMENDMENTS:** 

Piedmont - May 1-Aug. 15

BY THE CONTRACTOR SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.

RESPONSIBILITY OF THE CONTRACTOR AND SHALL COMPLY WITH ALL REQUIREMENTS.

THAN ONCE EVERY WEEK AND WITHIN 24 HOURS OF EVERY HALF INCH RAINFALL.

SPILLED, WASHED OR TRACKED ONTO THE CONSTRUCTION ENTRANCE OR ROADWAYS.

REQUIREMENTS PER TABLE ON THIS SHEET AS WELL. MOST STRINGENT REQUIREMENT TO BE MET.

NORTH CAROLINA TEMPORARY

A 4" LAYER OF TOPSOIL SHALL BE APPLIED TO ALL NEW AREAS TO BE GRASSED.

MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PROJECT IS COMPLETE.

CLEARING: CONTRACTOR SHALL REMOVE ALL TREES AND VEGETATION WITHIN LIMITS OF CONSTRUCTION UNLESS OTHERWISE DESIGNATED TO REMAIN.

MUCKING: CONTRACTOR SHALL COORDINATE WITH OWNER AND THEIR GEOTECHNICAL REPRESENTATIVE TO COORDINATE REMOVAL OF ANY SOFT AREAS.

DISPOSAL: CLEARED, GRUBBED, STRIPPED OR OTHER WASTE MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A PROPERLY PERMITTED FACILITY.

10. NO CONSTRUCTION IS TO BEGIN BEFORE LOCATION OF EXISTING UTILITIES HAS BEEN DETERMINED, CALL "NC ONE-CALL" AT LEAST 48 HOURS BEFORE COMMENCING

GRUBBING AND STRIPPING: CONTRACTOR SHALL RAKE AND REMOVE ROOTS, STUMPS, VEGETATION, DEBRIS, EXISTING STRUCTURES ABOVE AND BELOW GRADE, ORGANIC

EXACT ELEVATIONS AND LOCATIONS OF ALL EXISTING UTILITIES AT ALL CROSSINGS PRIOR TO COMMENCING TRENCH EXCAVATION. IF ACTUAL CLEARANCES ARE LESS THAN INDICATED ON PLAN, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION. ANY CONDITION DISCOVERED OR EXISTING THAT WOULD NECESSITATE A MODIFICATION OF THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.

ALONG ROADWAYS OR RIGHT-OF-WAYS, PUBLIC AREAS OR IN PRIVATE EASEMENTS, THE CONTRACTOR SHALL NOTIFY ALL APPROPRIATE PERSONNEL OF THEIR INTENT TO

13. CONTRACTOR SHALL ADJUST ALL MANHOLES, VALVE & CURB BOXES TO FINAL GRADE UPON COMPLETION OF ALL CONSTRUCTION. ANY BOXES DAMAGED OR OTHERWISE DISTURBED

15. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AT THE SITE. FURTHERMORE THE CONTRACTOR SHALL REPORT ALL DISCREPANCIES OR QUESTIONS TO THE ENGINEER

12. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE DISCONNECTION/ RECONNECTION AND/OR THE RELOCATION OF ALL EXISTING UTILITIES WITH APPROPRIATE

17. ALL SERVICE CONNECTIONS SHALL BE INSTALLED TO MEET ALL LOCAL, STATE, AND CFPUA CODES. METERS, TAPS, MATERIALS, WORKMANSHIP AND ALL FEES SHALL BE THE

18. ALL BACKFILL FROM UTILITY INSTALLATION MUST BE COMPACTED OR AMENDED TO PROVIDE TRAFFIC BEARING CAPACITY. GEOTECHNICAL ENGINEER TO BE CONSULTED AT

19. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO INSTALLATION. ALL AREAS SHALL BE

21. FIELD TESTING SHALL BE DONE BY AN INDEPENDENT TESTING LABORATORY PAID FOR BY THE OWNER. FURTHER TESTING REQUIRED DUE TO A FAILED TEST WILL BE PAID FOR BY

1. ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF-PRODUCING RAINFALL, BUT IN NO CASE, LESS

ALL POINTS OF EGRESS WILL HAVE CONSTRUCTION ENTRANCES THAT WILL BE PERIODICALLY TOP-DRESSED WITH AN ADDITIONAL 2 INCHES OF 2-3 INCH STONE TO MAINTAIN

PROPER DEPTH. THEY WILL BE MAINTAINED IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE OBJECTIONABLE MATERIAL

EVERY RAIN EVENT. SEDIMENT WILL BE REMOVED FROM AROUND BEAVER DAMS, DANDY SACKS AND SOCKS ONCE A WEEK AND AFTER EVERY RAIN EVENT

SWALES MUST BE TEMPORARILY STABILIZED WITHIN 21 CALENDAR DAYS OF CEASE OF ANY PHASE OF ACTIVITY ASSOCIATED WITH A SWALE.

NO CUT SLOPE OR FILL SLOPE SHALL EXCEED A RISE OR FALL OF ONE FOOT FOR EVERY RUN OF 3 FEET (1 VERTICAL TO 3 HORIZONTAL).

MORE STRINGENT MEASURES MAY BE REQUIRED TO HALT EROSION IF THOSE ON THIS PLAN PROVE TO BE LESS EFFECTIVE.

SEDIMENT WILL BE REMOVED FROM HARDWARE CLOTH AND GRAVEL INLET PROTECTION, ROCK DOUGHNUT INLET PROTECTION, SEDIMENT TRAP BAFFLES, AND ROCK PIPE INLET

PROTECTION WHEN THE DESIGNED STORAGE CAPACITY HAS BEEN HALF FILLED WITH SEDIMENT. ROCK WILL BE CLEANED OR REPLACED WHEN THE SEDIMENT POOL NO LONGER

DIVERSION DITCHES WILL BE CLEANED OUT IMMEDIATELY TO REMOVE SEDIMENT OR OBSTRUCTIONS FROM THE FLOW AREA. THE DIVERSION RIDGES WILL ALSO BE REPAIRED.

SEDIMENT WILL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES HALF FILLED. THE SEDIMENT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A

BARRIER. STAKES MUST BE STEEL. STAKE SPACING WILL BE 6 FEET MAX. WITH THE USE OF EXTRA STRENGTH FABRIC, WITHOUT WIRE BACKING. STAKE SPACING WILL BE 8 FEET

MAX WHEN STANDARD STRENGTH FABRIC AND WIRE BACKING ARE USED. IF ROCK FILTERS ARE DESIGNED AT LOW POINTS IN THE IN THE SEDIMENT FENCE THE ROCK WILL BE

CONSTRUCTION OF SITE TO START WITH INSTALLATION OF CONSTRUCTION ENTRANCE AND SILT FENCE ALONG ALL LOCATIONS PER PLANS. UPON INSTALLATION OF SILT FENCE,

INSTALL PRIMARY EROSION CONTROL MEASURES BEFORE BEGINNING CONSTRUCTION INCLUDING BUT NOT LIMITED TO GRAVELED CONSTRUCTION ENTRANCE, SILT FENCE, TREE PROTECTION FENCE & SEDIMENT BASINS. CONTRACTOR TO BE FAMILIAR WITH USACOE GENERAL PERMIT CONDITIONS FOR ROAD CROSSINGS. SPECIFIC CONSTRUCTION

METHODS MAY BE REQUIRED ABOVE AND BEYOND WHAT IS SPECIFIED IN THIS PLAN. INSTALL ALL SECONDARY EROSION CONTROL MEASURES, SUCH AS INLET PROTECTION AS

9. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES UPON COMPLETION OF CONSTRUCTION. ALL PERMANENT MEASURES SHALL BE WELL ESTABLISHED PRIOR TO PROJECT

TREES SHOULD BE REMOVED IN LOCATIONS AS NECESSARY. ALL SLOPED AREAS SHOULD BE SEEDED IN ACCORDANCE TO SPECIFICATIONS. SLOPE STABILIZATION IS WITHIN 21 CALENDAR DAYS OF ANY PHASE OF CONSTRUCTION. ALL OTHER AREAS MUST BE STABILIZED WITH IN 15 WORKING DAYS. CONTRACTOR TO FOLLOW NPDES STABILIZATION

GENERAL CLEARING AND GRADING OF THIS SITE WILL NOT BE DONE UNTIL THE TEMPORARY SILT FENCE & CONSTRUCTION ENTRANCE HAS BEEN INSTALLED.

NO SEDIMENT WILL BE ALLOWED TO EXIT THE SITE. ALL EROSION SHALL BE CONTROLLED INCLUDING SIDE SLOPES DURING AND AFTER CONSTRUCTION.

ALL EROSION CONTROL MEASURES TO BE INSPECTED AFTER EACH RAIN. SILT FENCE AND INLET PROTECTION TO BE CLEANED WHEN HALF FULL.

APPLICATION RATE

100 (lb/acre)

50 (lb/acre)

40 (lb/acre)

120 (lb/acre)

**Public Utilities** 

DRAINS AS DESIGNED. DEBRIS WILL BE REMOVED FROM THE ROCK AND HARDWARE CLOTH TO ALLOW PROPER DRAINAGE. SILT SACKS WILL BE EMPTIED ONCE A WEEK AND AFTER

**MAINTENANCE:** Refertilize if growth is not fully adequate. reseed, refertilize and mulch immediately following erosion or other damage.

mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch

Follow recommendations of soil tests or apply 2,000 lb/acre ground agricultural

apply 4,000 lb/acre straw. anchor straw by tacking with asphalt, netting, or a

anchoring tool. Approved Construction Plan Public Services • Engineering Division APPROVED DRAINAGE PLAN

agriculture limestone and 500 lb/acre 10-10-10 fertilizer.

NORTH CAROLINA PERMANENT GRASSING DETAIL

Apply lime and fertilizer according to soil tests, or apply 3.000-5,000 lb/acre

ground agricultural limestone (use the lower rate on sandy soils) and 1,000 lb/acre

Fertilize according to soil tests or apply 40 lb/acre nitrogen in January or february,

fertilizer. Avoid fertilizer applications during warm weather, as this increases stand

losses to disease. Reseed, fertilize, and mulch damaged areas immediately. mow to

Apply lime and fertilizer according to soil tests, or apply 3,000 lb/acre ground

Refertilize the following april with 50 lb/acre nitrogen. Repeat as growth requires.

may be mowed only once a year. Where a neat appearance is desired, omit sericea

mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch

apply 4,000 lb/acre straw. anchor straw by tacking with asphalt, netting, or a

Signed:

40 lb in September and 40 lb in November, from a 12-4-8, 16-4-8, or similar turf

**APPLICATION RATE** 

200 (lb/acre)

25 (lb/acre)

50 (lb/acre)

30 (lb/acre)

10 (lb/acre)

10 (lb/acre)

50 (lb/acre)

SEEDING MIXTURE SPECIES

**FALL & WINTER:** 

Rye (grain)

Tall Fescue (blend of two or

three improved varieties)

**SPRING & SUMMER** 

Common Bermudagrass

**SEEDING DATES** 

FALL & WINTER:

**SOIL AMENDMENTS:** 

a height of 2.5-3.5 inches as needed.

SPRING & SUMMER:

**SOIL AMENDMENTS:** 

and mow as often as needed.

Pensacola Bahiagrass

Sericea Lespedeza

German Millet

January - April August - December

10-10-10 fertilizer.

**MAINTENANCE:** 

April 1 - July 15

**MULCH:** 

Tall Fescue

VICINITY MAP (NOT TO SCALE): THE CONTRACTOR SHALL NOTE THAT THE GRADING PLAN MAY NOT REPRESENT A BALANCED EARTHWORK CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT AND 9. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE SITE 11. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION. BEFORE COMMENCING ANY EXCAVATIONS IN OR REVISIONS

PL

EE

APTIST CE

DETAIL

SEAL 032555

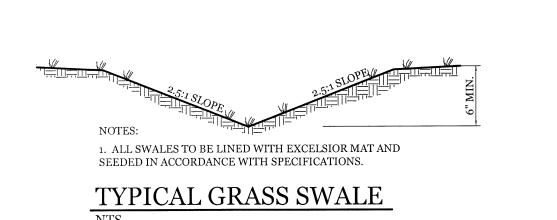
**CLIENT INFORMATION:** 

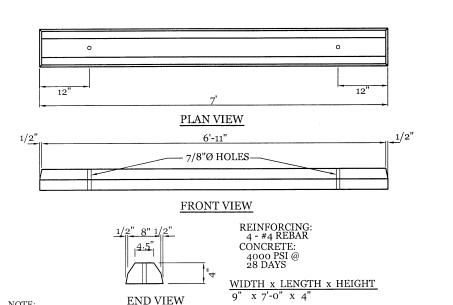
Peace Baptist Church, Inc Pastor Rudy Shepard 320 Military Cutoff Rd. Wilmington NC 28403 910-791-4034 preachershepard@bellsouth.net

DRAWN:	JAE	SHEET SIZE:	24x36
CHECKED:	CDC	DATE:	10/29/2018
APPROVED:	CDC	SCALE:	NTS
PROJECT NUMB	ER:	2017-019	

DRAWING NUMBER:

C-2

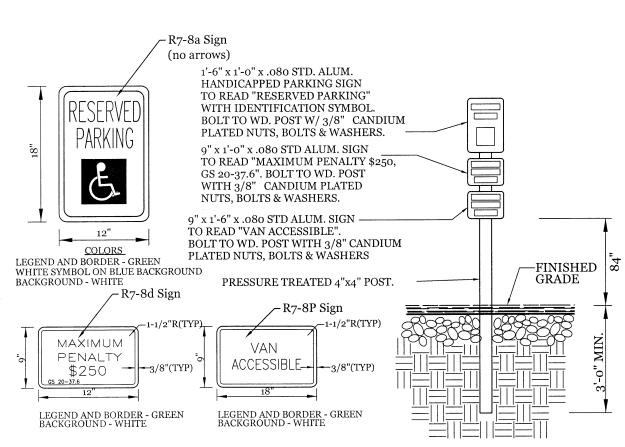




WHEEL STOP DETAIL

1. CONTRACTOR SHALL INSTALL PER CITY OF WILMINGTON TECHNICAL STANDARD PER SD 15-13

2. CONTRACTOR SHALL INSTALL WHEEL STOP 2.5' FROM SIDEWALK

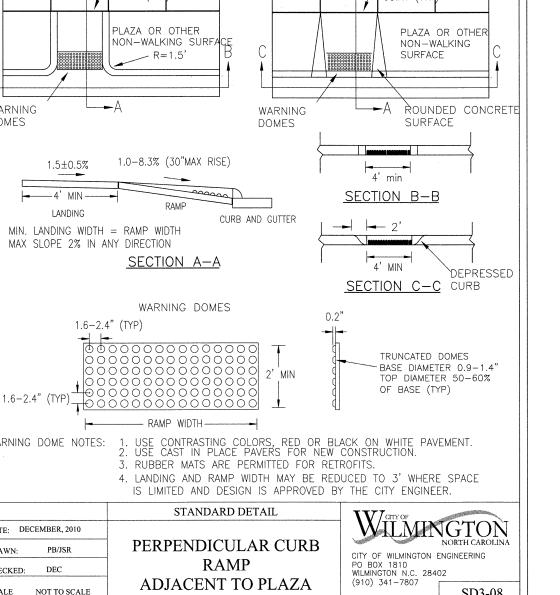


TYPICAL HANDICAPPED SIGN DETAIL

NTS



PERMEABLE CONCRETE



SYMBOL	GROUND STABILIZATION CRITERIA			
	SITE AREA DESCRIPTION	STABILIZATION TIMEFRAME	STABILIZATION TIMEFRAME EXCEPTIONS	
	* Perimeter dikes, ditches and slopes	7 Days	None	
	* High Quality Water (HQW) Zones	7 Days	None	
	* Slopes Steeper than 3:1	7 Days	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed	
\(\psi\) \(\	* Slopes 3:1 or flatter	14 Days	7-days for slopes greater than 50 ft. in length	
+ + + + + + + + + + + + + + + + + + +	* All other areas with slopes flatter than 4:1	14 Days	None (except for perimeters & HQW	

DEDICATED AREAS FOR DEMOLITION, CONSTRUCTION AND OTHER WASTES MUST BE LOCATED 50' FROM STORM DRAINS AND STREAMS UNLESS NO REASONABLE ALTERNATIVES ARE AVAILABLE.

- SAME RAIN GAUGE & INSPECTIONS AFTER 0.50" RAIN EVENT. INSPECTIONS ARE ONLY REQUIRED DURING "NORMAL BUSINESS HOURS"

- OUTLET STRUCTURES MUST BE WITHDRAWN FROM BASIN SURFACES UNLESS

**BUILDING WASTE HANDLING:** 

- NO PAINT OR LIQUID WASTES IN STREAM OR STORM DRAINS

- EARTHEN MATERIAL STOCKPILES MUST BE LOCATED 50' FROM STORM DRAINS AND - CONCRETE MATERIALS MUST BE CONTROLLED TO AVOID CONTACT WITH SURFACE

SEDIMENT BASINS: