-TOP SOILING (3.30): TOPSOIL WILL BE STRIPPED FROM THE SITE AND STOCKPILED IN AN AREA DETERMINED IN THE FIELD. UPON THE COMPLETION OF THE PROJECT TOPSOIL WILL BE PLACED ON ALL DISTURBED AREAS AT A MINIMUM DEPTH OF 6 INCHES. -TEMPORARY SEEDING (3.31): ALL DENUDED AREAS LEFT DORMANT FOR MORE THAN 14 DAYS SHALL BE SEEDED WITH A FAST GERMINATING TEMPORARY VEGETATION. -TEMPORARY VEGETATION: THE TIME OF YEAR WILL BE THE BASIS FOR THE SEED MIXTURE. -PERMANENT SEEDING (3.32): ALL SEEDED AREAS WILL BE RESEEDED, MULCHED AND FERTILIZED AS NEEDED TO OBTAIN AN ADEQUATE STAND OF GRASS AS SOON AS POSSIBLE AFTER FINAL GRADING OPERATIONS.

- SODDING (3.33): STABILIZING FINE-GRADED AREAS BY ESTABLISHING PERMANENT GRASS STANDS WITH SOD.

- BERMUDAGRAS & ZOYSIAGRASS ESTABLISHMENT (3.34): ESTABLISHMENT OF VEGETATIVE COVER WITH HYBRID BERMUDAGRASS OR ZOYSIAGRASS BY PLANTING SPRIGS, STOLONS OR PLUGS TO STABILIZE FIN-GRADED AREAS WHERE ESTABLISHMENT BY SOD IS NOT

- MULCHING (3.35): APPLICATION OF PLANT RESIDUES OR OTHER SUITABLE MATERIALS TO DISTURBED SURFACES TO PREVENT EROSION AND REDUCE OVERLAND FLOW VELOCITIES. FOSTERS PLAN GROWTH BY INCREASING AVAILABLE MOISTURE AND PROVIDING INSULATION AGAINST EXTREME HEAR OR COLD. SHOULD BE APPLIED TO ALL SEEDING OPERATIONS, OTHER PLANT MATERIALS WHICH DO NOT PROVIDE ADEQUATE SOIL PROTECTION BY THEMSELVES, AND BASE AREAS WHICH CANNOT BE SEEDED DUE TO THE SEASON BUT

WHICH STILL NEED PROTECTION TO PREVENT SOIL LOSS. - SOIL STABILIZATION BLANKETS & MATTING (3.36): THE INSTALLATION OF A PROTECTIVE BLANKET (TREATMENT 1) OR A SOIL STABILIZATION MAT (TREATMENT 2) ON A PREPARED PLANTING OF A STEEP SLOPE, CHANNEL OR SHORELINE.

- TREES, SHRUBS, VINES, AND GROUND COVERS (3.37): STABILIZING DISTURBED AREAS BY PLANTING TREES, SHRUBS, VINES, AND GROUND COVERS WHERE TURF IS NOT PREFERRED THESE PLANT MATERIALS ALSO PROVIDE FOOD AND SHELTER FOR WILDLIFE AS WELL AS MANY OTHER ENVIRONMENTAL BENEFITS. ESPECIALLY EFFECTIVE WHERE ORNAMENTAL PLANTS ARE DESIRABLE AND TURF MAINTENANCE IS DIFFICULT. - TREE PRESERVATION AND PROTECTION (3.38): PROTECTING EXISTING TREES FROM

MECHANICAL AND OTHER INJURY DURING LAND-DISTURBING AND CONSTRUCTION ACTIVITY TO ENSURE THE SURVIVAL OF DESIRABLE TREES WHERE THEY WILL BE EFFECTIVE FOR EROSION AND SEDIMENT CONTROL AND PROVIDE OTHER ENVIRONMENTAL AND AESTHETIC

- DUST CONTROL (3.39): REDUCING SURFACE AND AIR MOVEMENT OF DUST DURING LAND DISTURBANCE, DEMOLÍTION OR CONSTRUCTION ACTIVITIES IN AREAS SUBJECT TO DUST PROBLEMS IN ORDER TO PREVENT SOIL LOSS AND REDUCE THE PRESENCE OF POTENTIALLY HARMFUL AIRBORNE SUBSTANCE.

### MANAGEMENT STRATEGIES

CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS WILL BEGIN AND END AS SOON AS POSSIBLE. THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES. AFTER ACHIEVING ADEQUATE STABILIZATION, AND IN THE OPINION OF THE LOCAL ADMINISTRATOR, THE TEMPORARY EROSION AND SEDIMENT CONTROLS SHALL BE REMOVED AND ANY AREAS DISTURBED DURING THIS PROCESS SHALL BE STABILIZED.

ALL AREAS LEFT UNCOVERED BY EITHER BUILDINGS OR PAVEMENT SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. SEEDING SHALL BE DONE IN ACCORDANCE WITH THE VESCH. ANY ALTERATIONS FROM THIS DOCUMENT SHALL BE APPROVED BY THE LOCAL EROSION CONTROL ADMINISTRATOR. ALL AREAS EITHER TEMPORARILY OR PERMANENTLY SEEDED NEED TO BE MULCHED AND WATERED REGULARLY TO ACHIEVE, IN THE PROGRAM ADMINISTRATOR'S OPINION, AN ADEQUATE STAND OF VEGETATION.

ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH RUNOFF PRODUCING RAINFALL. THEY WILL BE INSPECTED FOR UNDERMINING, DETERIORATION, EROSION AND EXCESS DEPOSITED MATERIAL. ALL DEFICIENCIES WILL BE CORRECTED IMMEDIATELY. EXCESS MATERIAL WILL BE SPREAD ON THE SITE IN A MANNER WHERE IT IS NOT LIKELY TO ERODE IN THE FUTURE.

## MAINTENANCE SCHEDULE:

IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH RUNOFF PRODUCING RAINFALL. THE FOLLOWING ITEMS WILL BE CHECKED IN PARTICULAR: (ALL REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE)

- THE SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, RESEED, AND WATERED AS NEEDED. THE INLET PROTECTION SHALL HAVE THE SEDIMENT REMOVED AND THE INLET PROTECTION RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS
- ACCUMULATED TO ONE HALF OF THE DESIGN DEPTH THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT THE TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT OF WAYS. ALL SEDIMENT REMOVED SHALL BE DISPOSED OF PROPERLY.
- TEMPORARY STOCKPILE AREA SHALL BE PROTECTED WITH SILT FENCE AS SHOWN, AND SHALL BE SEEDED AS REQUIRED BY THE VESCH.
- BOTH TEMPORARY AND PERMANENT ROADS AND PARKING AREAS MAY REQUIRE TOP DRESSING WITH NEW GRAVEL. SEEDED AREA ADJACENT TO THE ROADS AND PARKING AREAS SHOULD BE CHECKED PERIODICALLY TO ENSURE THAT A VIGOROUS STAND OF VEGETATION IS MAINTAINED. ROADSIDE DITCHES AND OTHER DRAINAGE STRUCTURES SHOULD BE CHECKED REGULARLY TO ENSURE THAT THEY DO NOT BECOME CLOGGED WITH SILT OR OTHER DEBRIS.

PLAN	NTING DATES:	SPECIES	RATE IN LBS. PER ACRE
SEPT. 1 - FEB. 15	- FEB. 15  ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM)  CEREAL (WINTER) RYE (SECALE CEREALE)		50 -100 lbs. / acre 50% 50%
FEB. 16 - APR. 30	ANNUAL RYEGR	ASS (LOLIUM MULTI-FLORUN	60 - 100lbs. / acre 100%
MAY 1 - AUG. 31  GERMAN MILLET (SETARIA ITALICA)			50lbs. / acre 100%
	<u>PEI</u>	RMANENT SE	EEDING
MINIMUM CARE LAWN (COMMERCIAL OR RESIDENTIAL) KENTUCKY 31 OR TURF-TYPE TALL FESCUE IMPROVED PERENNIAL RYEGRASS KENTUCKY BLUEGRASS		200-250 lbs. / acre 90-100% 0-10% 0-10%	
HIGH-MAINTENANCE LAWN  MINIMUM OF THREE (3) MAXIMUM OF FIVE (5)  VARIETIES OF BLUEGRASS FROM APPROVED LIST FOR USE IN VIRGINIA		125 lbs. / acre	
GENERAL SLOPE (3:1 OF	R LESS)		150 lbs. / acre
	KENTUCKY 31 FESCU RED TOP GRASS SEASONAL NURSE C		85% 3% 12%
GENERAL SLOPE (STEEPE	ER THAN 3:1)		150 lbs. / acre
	KENTUCKY 31 FESCU RED TOP GRASS SEASONAL NURSE CF CROWNVETCH****		70% 3% 13% 14%

ADD 10 - 20lbs. / acre IN MIXES.

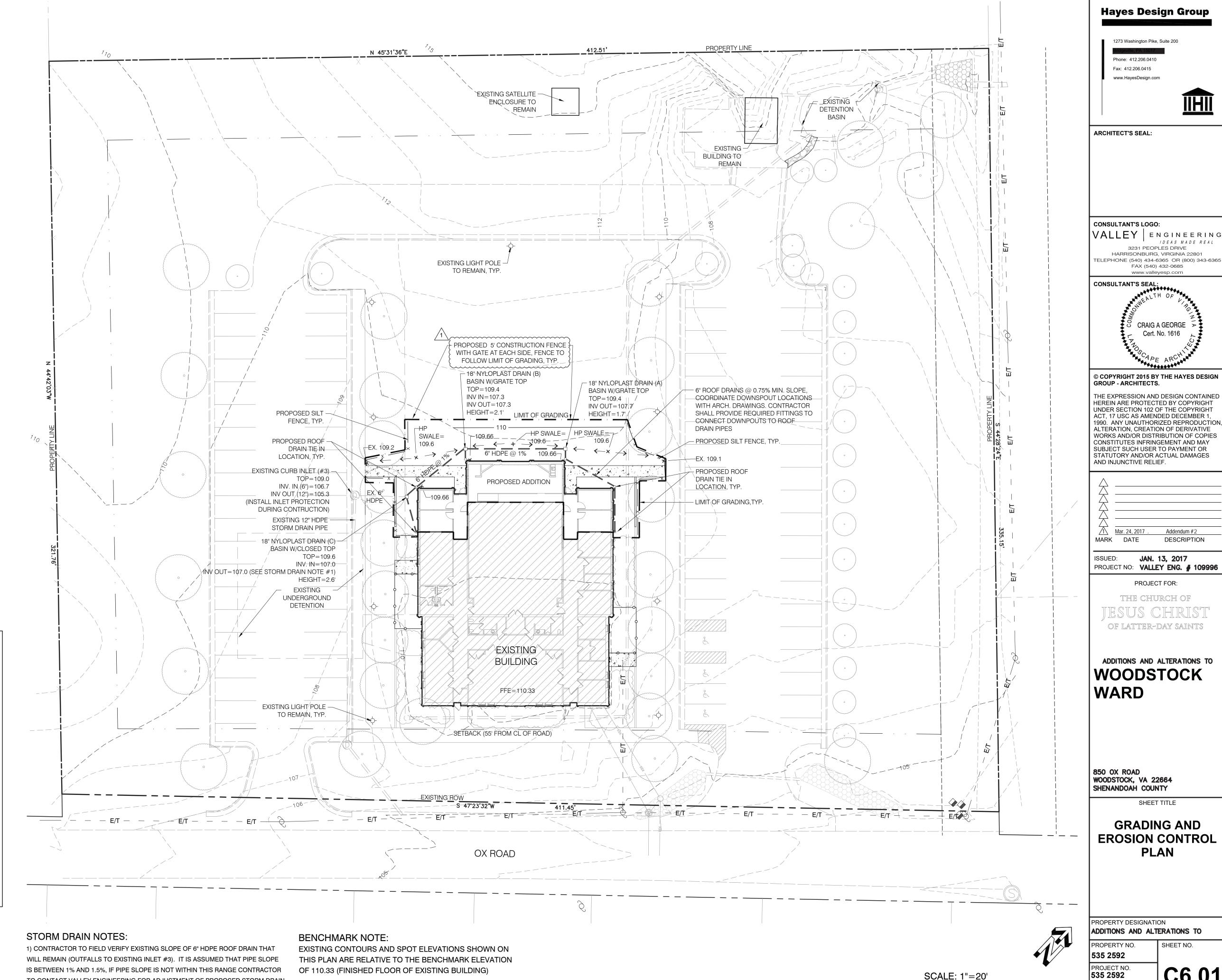
# **EROSION CONTROL NOTE:**

BECAUSE OF THE LIMITED SIZE OF DISTURBANCE, SUBMITTAL AND APPROVAL OF SEDIMENT AND EROSION CONTROL PLANS BY SHENANDOAH COUNTY IS NOT REQUIRED FOR THIS PROJECT; HOWEVER, THE CONTRACTOR SHALL ENSURE THAT SEDIMENT GENERATED FROM THIS DISTURBANCE DOES NOT LEAVE THE SITE AND THAT ALL DISTURBED AREAS ARE STABILIZED PER THE NOTES (LISTED ABOVE) ON THIS PLAN. SILT FENCE SHALL AND INLET PROTECTION SHALL BE INSTALLED AS SHOWN ON THIS PLAN.

TO CONTACT VALLEY ENGINEERING FOR ADJUSTMENT OF PROPOSED STORM DRAIN

SYSTEM OR POSSIBLE REPLACEMENT OF EXISTING 6" HDPE BETWEEN NEW 18"

CATCH BASIN (C) AND EXISTING INLET #3.



Hayes Design Group

IDEAS MADE REAL

3231 PEOPLES DRIVE HARRISONBURG, VIRGINIA 22801

FAX (540) 432-0685

**CRAIG A GEORGE** 

Mar. 24, 2017

Addendum #2

JAN. 13, 2017

PROJECT FOR:

THE CHURCH OF

JESUS CHRIST

OF LATTER-DAY SAINTS

ADDITIONS AND ALTERATIONS TO

SHEET TITLE

**GRADING AND** 

**PLAN** 

1603 0101

JAN. 13, 2017

SHEET NO.

C6.01

DESCRIPTION

1273 Washington Pike, Suite 200

Phone: 412.206.0410

www.HayesDesign.com

Fax: 412.206.0415