

SCALE: 1" = 20'
1" CONTOUR INTERVAL
NOVEMBER 12, 2014

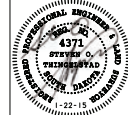
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EROSION & SEDIMENT CONTROL PLAN

LOT 7 OF CABELL SQUARE ADDITION
LOCATED IN THE NW 1/4 OF THE NW 1/4
SECTION 5, T1N, R8E, BHM, RAPID CITY
PENNINGTON COUNTY, SOUTH DAKOTA

EROSION CONTROL PLAN
& NARRATIVE
530 CABELL STREET
WYNGARD INVESTMENTS, LLC

Revision: 1-20-15
Prepared By: 287
Checked By: 435
Designed By: 287
Drawn By: 287



EROSION AND SEDIMENT CONTROL PLAN NARRATIVE

SITE NAME: LOT 7 OF CABELL SQUARE ADDITION
OWNER/DEVELOPER: WYNGARD INVESTMENTS, LLC
ENGINEER: BRITTON ENGINEERING & LAND SURVEYING, INC.
GENERAL CONTRACTOR:

PROJECT DESCRIPTION: LOT 7 OF CABELL SQUARE ADDITION LOCATED IN THE NW 1/4 OF THE NW 1/4 SECTION 5, T1N, R8E, BHM, RAPID CITY, PENNINGTON COUNTY, SOUTH DAKOTA
THIS PROJECT INCLUDES REGRADING OF THE EXISTING LAND AREA, CONSTRUCTION OF A GENERAL COMMERCIAL BUILDING, 3 STORAGE BUILDINGS (45 TOTAL UNITS), AND 39,198 SF OF PARKING LOT & ACCESS LINES FOR STORAGE UNITS.

EXISTING SITE CONDITIONS: THE TOTAL SURFACE AREA IS APPROXIMATELY 1.68 ACRES AND CURRENTLY DRAINS TO THE SOUTH INTO THE EXISTING DRAINAGE SYSTEM ALONG CENTRE STREET WHICH DRAINS THE AREA FROM THE NORTH, EAST AND WEST INTO AN EXISTING AREA INLET AND 60" RCP STORM SEWER. THE CURRENT SITE IS DRAIN VIA STREET DRAIN WITH A PORTION OF LOT 6 (LOCATED TO THE NORTH) ALSO DRAINING VIA STREET FLOW ONTO LOT 7. ADDITIONAL DRAINAGE IMPROVEMENTS TO THE PROPOSED SITE ON THE EAST 20 FEET OF THE PROPERTY LOCATED IN A DRAINAGE EMERGENCY FOR DOCUMENT 194, PAGES 5640-5642 WERE IMPLEMENTED IN THE EARLY 2000'S. THE PROPOSED SITE DEVELOPMENT WILL NOT CHANGE THE CURRENT DRAINAGE PATTERNS FROM LOT 7 AND IS FURTHER DISCUSSED IN THE DRAINAGE REPORT.

ADJACENT AREAS: THE NORTH & EAST LOT LINES ASIDE THE SITE IS BORDERED BY GENERAL COMMERCIAL BUSINESS DISTRICT. THE SOUTHERLY LOT LINE IS BORDERED BY CENTRE STREET, AND WESTERLY LOT LINE IS BORDERED BY CABELL STREET.

SOILS: THE SOIL PROFILE IS IDENTIFIED FROM THE SOIL BORINGS PROVIDED BY AMERICAN TECHNICAL SERVICES, INC. AND REFERENCED TO THE UNIFIED SOIL CLASSIFICATION SYSTEM. THE 0"-6" LAYER CONSISTS OF GRASS, WEEDS AND SOIL COVER; FOR THE 6"-60" LAYER THE UNIFIED SOIL LAYER CLASSIFICATION IS CL-CH (LEAT CLAYS, REDLUM STIFF WITH SAND & GRAVEL PRESENT); FOR THE 60"-180" THE UNIFIED SOIL LAYER CLASSIFICATION IS CH (LEAT CLAY, VERY MOIST, SOFT WITH SAND PRESENT). NO GROUND WATER WAS ENCOUNTERED WITHIN 16 FEET OF THE EXISTING GROUND SURFACE. SOURCE: THE AMERICAN TECHNICAL SERVICES, INC. SOILS REPORT.

AREA AND VOLUME DISTURBED: THE TOTAL SURFACE AREA TO BE DISTURBED IS APPROXIMATELY 1.57 ACRES, AND IT IS ESTIMATED THAT THE SITE GRADING WILL PRODUCE 3,910 CY OF CUT MATERIAL, NOT INCLUDING EXCAVATION OF FILL MATERIAL, A 2% SWIRLING WITH A NET TOTAL OF 2,005 CY OF EXCESS FILL MATERIAL, NOT INCLUDING EXCESS MATERIAL, REMOVED FOR EROSION CONTROL MEASURES. FURTHER ESTIMATED DIRT QUANTITIES ARE LISTED ON SHEET 2 OF 2.

EROSION CONTROL MEASURES: EROSION CONTROL MEASURES WILL CONSIST OF EROSION CONTROL WATTLES, NOTIFICATION SIGN, AND A STABILIZED CONSTRUCTION ENTRANCE AT THE ACCESS LOCATION & GRASS LINED BUFFER SHALL BE IMPLEMENTED ALONG THE EXISTING DRAINAGE SWALE AS TREATMENT FOR THE INITIAL STORM.

AREA FOR STOCKPILES AND STORAGE: DUE TO LIMITED SPACE ON THE SITE THE STOCKPILE LOCATION SHALL BE DETERMINED BY THE OWNER AND/OR CONTRACTOR. ALL STOCKPILES WILL BE SEEDDED WITH A TEMPORARY COVER CROP AND SURROUNDED WITH SILT FENCING TO REDUCE SEDIMENT RUNOFF.

EROSION AND SEDIMENT CONTROL CONSTRUCTION SEQUENCE: INSTALL EROSION CONTROL WATTLES, CONSTRUCTION ENTRANCE, AND CONTACT INFORMATION SIGN PRIOR TO INITIAL INSPECTION AND PRIOR TO GRADING OPERATIONS. UPON COMPLETION OF DEVELOPMENT ROUGH GRADING, SEED WITH TEMPORARY GROUND COVER WITH MULCH AND INSTALL ROUGH CUT STREET CONTROL. UPON COMPLETION OF PLANNED DEVELOPMENT AND FINAL STABILIZATION, REMOVE SEDIMENT CONTROL DEVICES AND FILE A NOTICE OF TERMINATION WITH THE STATE.

CONSTRUCTION AND ESC SEQUENCE PERMANENT STABILIZATION MEASURES: PERMANENT LANDSCAPING INCLUDING BLUEGRASS 500 OR SEED, TREES, AND/OR SHRUBS WILL BE INSTALLED UPON COMPLETION OF PROPOSED SUBSTATION (COORDINATE WITH LANDSCAPE PLANS).

STORMWATER MANAGEMENT CONSIDERATIONS: THE STORM WATER DRAINAGE PATTERN WILL REMAIN SOMEWHAT SIMILAR TO THE HISTORIC DRAINAGE PATTERN DUE TO THE SITE REGRADING APPROXIMATELY 0.45 ACRES OF THE TOTAL CONTAINING 0.47 ACRES WILL DRAIN WESTERLY ALONG THE EXISTING DRAINAGE SWALE AND WILL BE COLLECTED IN THE EXISTING DETENTION POND LOCATED AT THE WEST SIDE OF THE PROPERTY. THE REMAINING 0.39 ACRES WILL DRAIN ONTO CENTRE STREET AND BE COLLECTED IN THE EXISTING "TYPE B" AND "TYPE B" DROP INLETS WHICH EVENTUALLY IS CONVEYED INTO THE SAME DETENTION POND AREA. AS TREATMENT FOR THE INITIAL STORM (1.0" OF RAIN) A GRASS LINED BUFFER WILL BE CONSTRUCTED ALONG THE EXISTING DRAINAGE SWALE AS FINAL TREATMENT FOR ALL INITIAL STORM TREATMENT WILL OCCUR WITHIN THE EXISTING DETENTION POND.

MAINTENANCE: INSPECTION OF EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE SCHEDULED WEEKLY & FOLLOWING ANY STORM EVENT UP TO 0.5 INCHES OR GREATER. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. INSPECTION AND MAINTENANCE PROCEDURES WILL CONTINUE UNTIL ALL DISTURBED AREAS HAVE REACHED FINAL STABILIZATION.

SPILL PREVENTION: CHEMICAL AND PETROLEUM PRODUCT SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE FEDERAL, STATE OR LOCAL GOVERNMENT AGENCY. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

SPILL CONTROL PRACTICES: CHEMICAL AND PETROLEUM PRODUCT SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE FEDERAL, STATE OR LOCAL GOVERNMENT AGENCY. ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.

SOIL SURFACE STABILIZATION PRACTICES: AFTER CONSTRUCTION BEGINS, SOIL SURFACE STABILIZATION SHALL BE APPLIED WITHIN 14 DAYS TO ALL DISTURBED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT UNDISTURBED FOR PERIODS LONGER THAN 31 DAYS. PERMANENT OR TEMPORARY SOIL SURFACE STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS AND SOIL STOCKPILES.

EROSION CONTROL METHOD	MAXIMUM ALLOWABLE PERIOD OF EXPOSURE (MONTHS)
SURFACE ROUGHENING	12
MULCHING	12-24
TEMPORARY VEGETATION	24 OR MORE
PERMANENT VEGETATION	2
SOIL STOCKPILE REVEGETATION	2
EARLY APPLICATION OF ROAD BASE	2

EROSION & SEDIMENT CONTROL PLAN: THE EXISTING AND PROPOSED CONTOURS ARE SHOWN AT ONE FOOT INTERVALS. THE GRADING LIMITS, WATTLES, CONSTRUCTION ENTRANCE, ROUGH CUT STREET CONTROL, ARE SHOWN ON THE PLAN.

NOTICE OF INTENT: THE AREA DISTURBED ON THE SITE IS ESTIMATED TO BE OVER 1 ACRE. THE CONTRACTOR SHALL PREPARE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE SITE ACCORDING TO DENR STANDARDS. THE ESTIMATED DISTURBED AREA IS 1.57 ACRES.

WETLANDS: NO WETLANDS WILL BE IMPACTED WITH THIS PROJECT.

DEWATERING: DEWATERING OPERATIONS ARE NOT EXPECTED. IF NEEDED, A GENERAL DEWATERING PERMIT WILL BE OBTAINED FROM SD DENR.

EROSION AND SEDIMENT CONTROL PLAN CERTIFICATION: THIS EROSION & SEDIMENT CONTROL PLAN NARRATIVE & ATTACHED EROSION AND SEDIMENT PLAN, APPEARS TO FULFILL THE TECHNICAL CRITERIA A THE CRITERIA FOR EROSION CONTROL & SEDIMENT CONTROL MEASURES MAY BE NEEDED IF UNPREDSEEN EROSION PROBLEMS OCCUR & IF THE SUBMITTED PLAN DOES NOT POSITION AS INTERESTED BY THE REQUIREMENTS OF THIS PLAN SHALL RUN WITH THE LAND AND BE THE OBLIGATION OF THE RESPONSIBLE PARTY UNTIL SUCH TIME AS THE PLAN IS PROPERLY COMPLETED, MODIFIED OR VOIDED.

OWNER/DEVELOPER: DATE

GENERAL CONTRACTOR (OPTIONAL): DATE

ENGINEER'S CERTIFICATION: I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE PROFESSIONAL ENGINEER REGISTRATION LAWS OF THE STATE OF SOUTH DAKOTA.