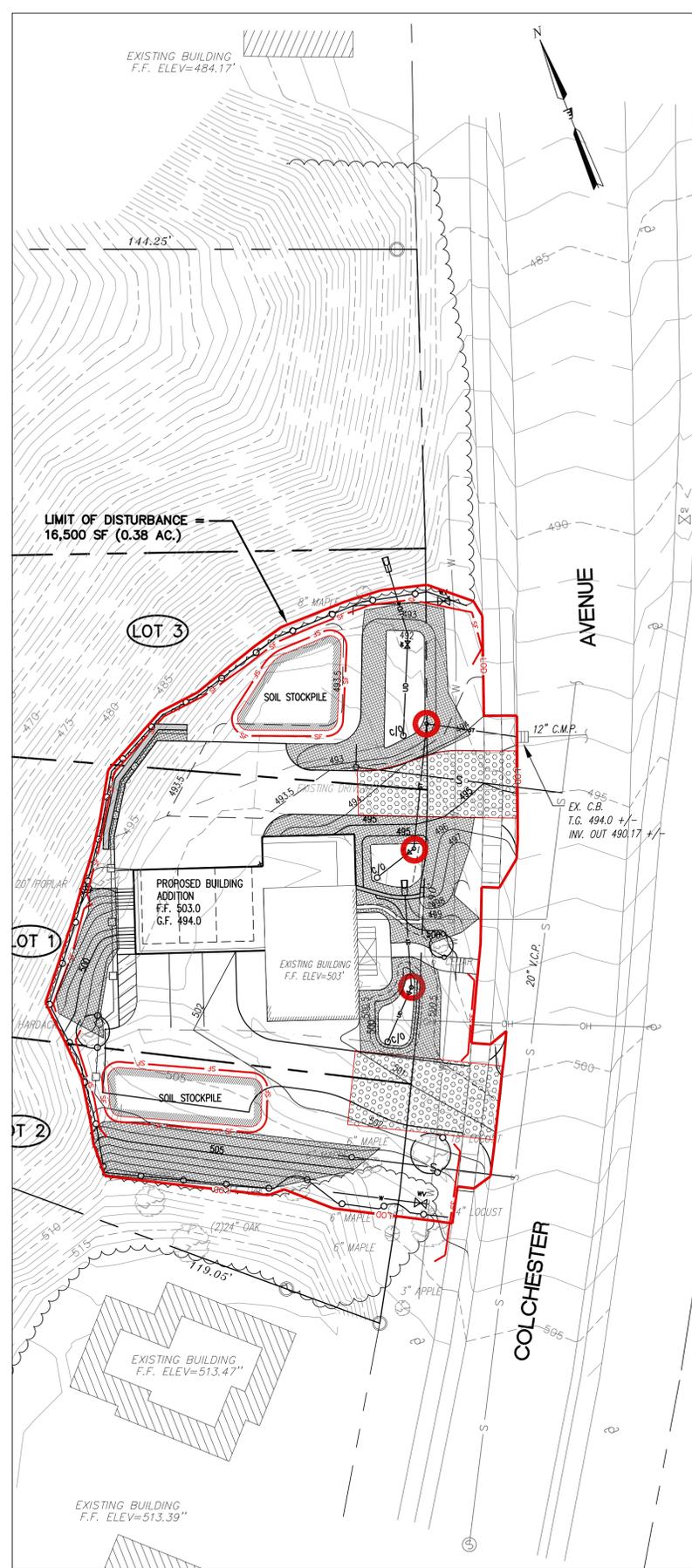


GRADING, UTILITY, AND STORMWATER MANAGEMENT PLAN



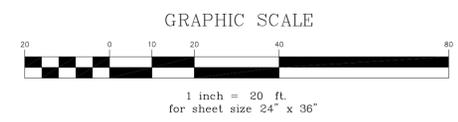
EROSION PREVENTION AND SEDIMENTATION CONTROL PLAN

STORM SEWER NOTES SANITARY SEWER NOTES

- ST1 PROP 6" PVC RISER FOR BIO-RETENTION AREA #1 OUTLET
RM: 500.25
INV. OUT: 496.50
- ST2 27 LF OF 8" PVC AT 1.85%
UPSTREAM INV: 496.50
DOWNSTREAM INV: 496.00
- ST3 PROP FLARED END SECTION
INV: 496.00
- ST4 PROP 6" PVC RISER FOR BIO-RETENTION AREA #2 OUTLET
RM: 494.75
INV. OUT: 490.50
- ST5 34 LF OF 8" PVC AT 0.59%
UPSTREAM INV: 490.50
DOWNSTREAM INV: 490.30
- ST6 PROP 6" PVC RISER FOR BIO-RETENTION AREA #3 OUTLET
RM: 492.50
INV. IN: 490.30
INV. OUT: 490.30
- ST7 25 LF OF 8" PVC AT 0.52%
UPSTREAM INV: 490.30
DOWNSTREAM INV: 490.17
- ST8 PORTION OF UNDERDRAIN DOWNSLOPE OF GATE VALVE
22 LF OF 8" PVC AT 1.0%
UPSTREAM INV: 488.92
DOWNSTREAM INV: 488.70
- ST9 PROP FLARED END SECTION
INV: 488.70
- SS1 48 LF +/- OF 4" PVC SANITARY SEWER SERVICE FOR FUTURE CONNECTION TO BUILDING ON LOT 2 (2.0% MINIMUM SLOPE). PROVIDE ADEQUATE COVER ON PIPE AS SHOWN IN DETAIL. PROVIDE CLEANOUT AND CAP ON END OF PIPE UNTIL FUTURE CONNECTION IS MADE.
- SS2 60 LF +/- OF 4" PVC SANITARY SEWER SERVICE FOR FUTURE CONNECTION TO BUILDING ON LOT 3 (2.0% MINIMUM SLOPE). PROVIDE ADEQUATE COVER ON PIPE AS SHOWN IN DETAIL. PROVIDE CLEANOUT AND CAP ON END OF PIPE UNTIL FUTURE CONNECTION IS MADE.

WATER NOTES

- W1 26 LF +/- OF 3/4" TYPE 'K' COPPER WATER SERVICE FOR FUTURE CONNECTION TO BUILDING ON LOT 2. PROVIDE ADEQUATE COVER ON PIPE AS SHOWN IN DETAIL. PROVIDE PLUG ON END OF PIPE UNTIL FUTURE CONNECTION IS MADE.
- W2 30 LF +/- OF 3/4" TYPE 'K' COPPER WATER SERVICE FOR FUTURE CONNECTION TO BUILDING ON LOT 3. PROVIDE ADEQUATE COVER ON PIPE AS SHOWN IN DETAIL. PROVIDE PLUG ON END OF PIPE UNTIL FUTURE CONNECTION IS MADE.



GRADING PLAN LEGEND

EXISTING FEATURES	PROPOSED FEATURES
C/O	C/O
MANHOLE	MANHOLE
CATCH BASIN	CATCH BASIN
STORM MANHOLE	STORM MANHOLE
TAPPING SLEEVE AND VALVE	TAPPING SLEEVE AND VALVE
FLARED END SECTION	FLARED END SECTION
GATE VALVE	GATE VALVE
HYDRANT	HYDRANT
WATER SHUT OFF	WATER SHUT OFF
WELL	WELL
LIGHT POLE	LIGHT POLE
UTILITY POWER POLE	UTILITY POWER POLE
SOIL BORING	SOIL BORING
TEST PIT	TEST PIT
SIGN	SIGN
SPOT ELEVATION	SPOT ELEVATION
TREE	TREE
WATERCOURSE	WATERCOURSE
TREELINE	TREELINE
FENCE	FENCE
CONTOUR	CONTOUR
SWALE	SWALE
STONE WALL	STONE WALL
PROPERTY LINE	PROPERTY LINE
EDGE OF PAVEMENT	EDGE OF PAVEMENT
SANITARY SEWER LINE	SANITARY SEWER LINE
STORM LINE	STORM LINE
WATER LINE	WATER LINE
UNDERGROUND ELECTRIC	UNDERGROUND ELECTRIC
OH	OH
OVERHEAD ELECTRIC	OVERHEAD ELECTRIC
UNDERGROUND TELEPHONE	UNDERGROUND TELEPHONE
G	G
GAS LINE	GAS LINE
UD	UD
UNDER DRAIN	UNDER DRAIN
RIGHT-OF-WAY LINE	RIGHT-OF-WAY LINE
SETBACK	SETBACK
SILT FENCE	SILT FENCE
PROPOSED BUILDING	PROPOSED BUILDING

EROSION PREVENTION AND SEDIMENT CONTROL STRUCTURE LEGEND

- LIMIT OF DISTURBANCE**
DISTURBANCE LIMITS TO BE MARKED IN THE FIELD WITH ORANGE RIBBON, CONSTRUCTION FENCE, OR CHAIN LINK FENCE IN EACH WORK AREA, PRIOR TO EARTH DISTURBANCE IN THAT AREA. TOTAL LIMIT OF DISTURBANCE IS 0.38 AC.
- TEMPORARY INLET PROTECTION**
INSTALL AS INDICATED ON PLANS. STONE TO BE REMOVED AND REPLACED WITH CLEAN STONE WHEN SURFACE REACHES 1/2 DEPTH OF STONE. REMOVE ALL SEDIMENT IF COLLECTED IN STRUCTURE AS SOON AS POSSIBLE. FIBER ROLLS MAY BE USED AS AN ALTERNATIVE TO CRUSHED STONE. SEE DETAIL 2/SHEET 2.2.
- SILT FENCING**
THIS STRUCTURAL MEASURE IS A TEMPORARY BARRIER OF GEOTEXTILE FABRIC USED TO INTERCEPT SEDIMENT LAIDEN RUNOFF FROM SMALL DRAINAGE AREAS OF DISTURBED SOIL. IT IS INSTALLED ALONG THE PERIMETER OF IMPACTED AREAS AND ALONG THE BASE OF THE FILL SLOPES. SILT FENCE IS TO BE INSTALLED PARALLEL TO SITE CONTOURS. ADDITIONALLY, WHEN DESIGNATED ALONG THE LIMITS OF DISTURBANCE, INSTALL CONSTRUCTION FENCE BEHIND THE SILT FENCE. SILT FENCE IS EFFECTIVE IN REDUCING STORMWATER RUNOFF VELOCITIES, ASSISTING IN THE DEPOSITION OF TRANSPORTED SEDIMENT LOAD AND PREVENTING THE MIGRATION OF ERODED SOIL PARTICLES ONTO ADJACENT AREAS. THESE WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE PROJECT SITE HAS BEEN PERMANENTLY STABILIZED. SEE DETAIL 3/SHEET 2.2.
- STABILIZED CONSTRUCTION ENTRANCE**
THIS STRUCTURAL MEASURE IS A STABILIZED PAD OF AGGREGATE UNDERLAIN WITH FILTER FABRIC LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY, SIDEWALK, OR PARKING AREA. THE PURPOSE OF A STABILIZED CONSTRUCTION ENTRANCE IS TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY OR STREETS. THIS WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE PROJECT SITE HAS BEEN PERMANENTLY STABILIZED. ONCE REMOVED, THE IMPACTED AREA SHALL BE STABILIZED WITH PAVEMENT, MULCH OR VEGETATION (AS INDICATED). SEE DETAIL 4/SHEET 2.2.
- EROSION CONTROL NETTING**
THIS STRUCTURAL MEASURE IS INSTALLED IN AREAS THAT HAVE SLOPES GREATER THAN 3:1 AND OTHER LOCATIONS INDICATED ON THIS PLAN TO STABILIZE THE SLOPE AND REDUCE THE EROSION POTENTIAL. THE NETTING IS TYPICALLY IMPREGNATED WITH GRASS SEED AND SOMETIMES STARTED TO THE EXPOSED SOIL. THESE WILL REMAIN IN PLACE AND BE MAINTAINED UNTIL THE PROJECT SITE HAS BEEN PERMANENTLY STABILIZED. THE NETTING IS ALSO USED TO LINE PROPOSED CHANNELS TO PREVENT EROSION CONDITIONS (SEE CHANNEL DETAILS).
- TREE PROTECTION FENCING**
THIS STRUCTURAL MEASURE IS INSTALLED AROUND EXISTING TREES TO PREVENT CONSTRUCTION ACTIVITIES FROM IMPACTING THE TREE, INCLUDING THE DIRTPILE AND ROOTS. THIS FENCING IS TYPICALLY JUST ORANGE CONSTRUCTION FENCING (SNOW FENCE) AND SHALL BE INSTALLED ACCORDING TO THE DETAIL SHOWN - SEE DETAIL 6/SHEET 2.2.
- APPROXIMATE SOIL STOCKPILE AREAS**
THESE ARE APPROVED LOCATIONS WHERE TOPSOIL AND OTHER SOIL MATERIALS MAY BE STORED. THESE STOCKPILES WILL BE PROTECTED FROM EROSION BY A NUMBER OF METHODS, INCLUDING INSTALLING SILT FENCING AROUND THE DOWN GRADIENT PERIMETER OF THE STOCKPILE AND SEEDING AND MULCHING THE STOCKPILE WHEN NOT IN USE FOR MORE THAN FIVE DAYS. CONTRACTOR SHALL SUBMIT PROPOSED AREA FOR ENGINEER APPROVAL.

GENERAL EROSION CONTROL NOTES

1. APPLICANT WILL CALL (802) 540-1748 OR EMAIL mmair@burlingtonvt.us AT LEAST 24 HOURS PRIOR TO INITIATING EARTH DISTURBANCE AND SUBMIT THE NAME AND CONTACT (CELL PHONE AND EMAIL) OF THE EROSION CONTROL COORDINATOR FOR THE PROJECT.
2. APPLICANT SHALL POST NOTICE FOR WORK IN A VISIBLE LOCATION.
3. A COPY OF THE EPSC PLAN, WITH ALL AMENDMENTS AND ASSOCIATED REPORTS, SHALL BE KEPT ON SITE DURING CONSTRUCTION, AND SHALL BE MADE AVAILABLE TO AUTHORIZED REPRESENTATIVES OF THE CITY OF BURLINGTON UPON REQUEST.
4. DISTURBANCE LIMITS ARE TO BE MARKED, AND THE FOLLOWING MANAGEMENT PRACTICES INSTALLED, PRIOR TO BEGINNING EARTH WORK IN ANY GIVEN AREA: SILT FENCE AND TREE PROTECTION FENCING.
5. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE VERMONT HANDBOOK FOR SOIL EROSION AND SEDIMENT CONTROL ON CONSTRUCTION SITES, AND BURLINGTON ORDINANCE.
6. SEDIMENT SHALL NOT ENTER SURFACE WATER BODIES AND CITY CONVEYANCE INFRASTRUCTURES.
7. ALL SEDIMENT SHALL BE REMOVED FROM THE CITY RIGHT-OF-WAY (SIDEWALKS AND ROADWAYS) BY THE END OF EACH WORK DAY.
8. DURING THE NON-WINTER CONSTRUCTION SEASON (APRIL 15-NOVEMBER 1): AFTER AN INITIAL 14-DAY PERIOD OF INITIAL DISTURBANCE, TEMPORARY OR PERMANENT STABILIZATION (MULCHING, EROSION CONTROL MATTING OR TARPS FOR STOCKPILES, OR OTHER APPROVED METHOD) OF EXPOSED AREAS AND STOCKPILES SHALL OCCUR AT THE END OF EACH WORK DAY UNLESS:
 - A. EARTHWORK IS TO CONTINUE IN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO LIQUID PRECIPITATION FORECAST FOR THE NEXT 24 HOURS; OR
 - B. IF WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (NO OUTLET) WITH A DEPTH OF 2 FEET OR GREATER (E.G. HOUSE FOUNDATION EXCAVATION OR UTILITY TRENCHES)
9. DURING THE WINTER CONSTRUCTION PERIOD FROM NOVEMBER 1 TO APRIL 15, ANY NEW DISTURBANCE SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED (MULCHING, EROSION CONTROL MATTING OR TARPS FOR STOCKPILES, OR OTHER APPROVED METHOD) AT THE END OF EACH WORK DAY UNLESS:
 - A. EARTHWORK IS TO CONTINUE IN THE AREA WITHIN THE NEXT 24 HOURS AND THERE IS NO LIQUID PRECIPITATION FORECAST FOR THE NEXT 24 HOURS; OR
 - B. IF WORK IS OCCURRING IN A SELF-CONTAINED EXCAVATION (NO OUTLET) WITH A DEPTH OF 2 FEET OR GREATER (E.G. HOUSE FOUNDATION EXCAVATION OR UTILITY TRENCHES)
10. THE PERIMETER OF THE SITE AND ALL BMPs SHALL BE INSPECTED AT THE END OF EACH WORKDAY TO ENSURE THAT SEDIMENT WILL NOT LEAVE THE SITE. IF SEDIMENT HAS BEEN CONVEYED BEYOND THE SITE BOUNDARY, IT SHALL BE SWEEP UP OR OTHERWISE REMOVED AND DEPOSITED ON-SITE IN AN UP-GRADE AREA AT THE END OF EACH WORK DAY.
11. THE OWNER AND HIS/HER REPRESENTATIVE SHALL ABIDE BY THE BEST MANAGEMENT PRACTICES INDICATED IN THIS PLAN AND CONDITIONS IN "THE VERMONT DEC LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL (2006)".
12. IF SOILS WILL BE EXPOSED AFTER NOVEMBER 1ST AND WINTER CONSTRUCTION HAS NOT BEEN PERMITTED, THE PROJECT WILL NOTIFY THE BURLINGTON DPW PRIOR TO OCTOBER 15TH. IF THE PROJECT IS COMPLETED DURING THE WINTER MONTHS, AN ADDITIONAL INSPECTION WILL BE REQUIRED TO ENSURE THAT THE SITE IS STABILIZED FOR THE WINTER.
13. WITHIN 48 HOURS OF REACHING FINAL GRADING, THE EXPOSED SOIL SHALL BE SEEDED AND MULCHED OR COVERED WITH EROSION CONTROL MATTING (FOR SLOPES STEEPER THAN 3:1 OR HIGH WIND PRONE AREAS).
14. THE OWNER SHALL CONTACT THE BURLINGTON DPW TO SCHEDULE A STABILIZATION INSPECTION WHEN SITE WORK AND STABILIZATION MEASURES (SEEDING AND MULCHING OR MATTING) HAVE BEEN INSTALLED.

ISSUED FOR PERMIT REVIEW
2/27/2015

Stamp

Chkd.

Description

Rev. No.

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Sheet Title: Grading, Utility, and Erosion Prevention & Sedimentation Control Plan (EPSC Plan)

Project Title: 380 Colchester Avenue
Burlington, VT

Designed By: MD/KW
Checked By: KW
Drawn By: MD
Scale: 1" = 20'
Date: 02/27/15

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EV#14062