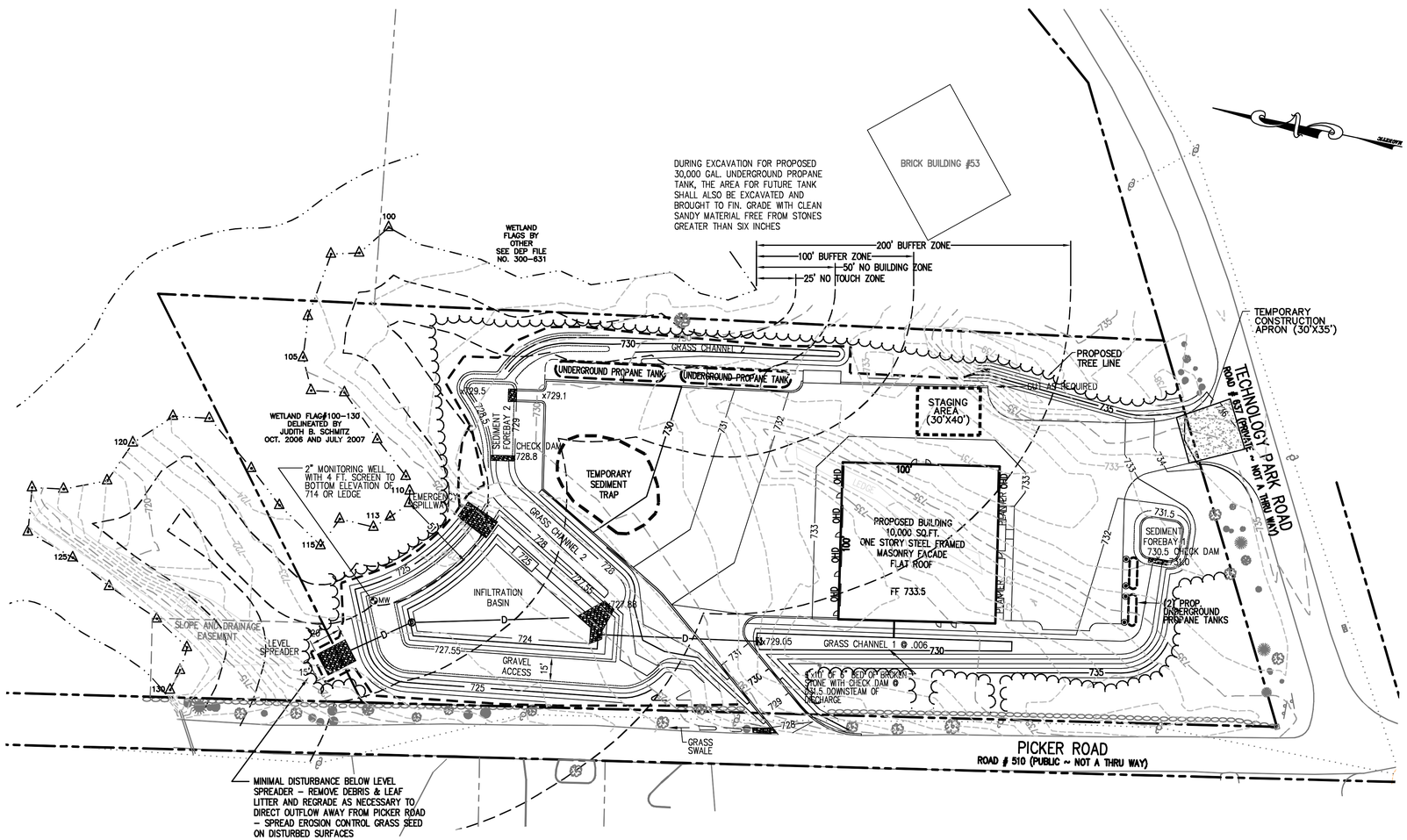
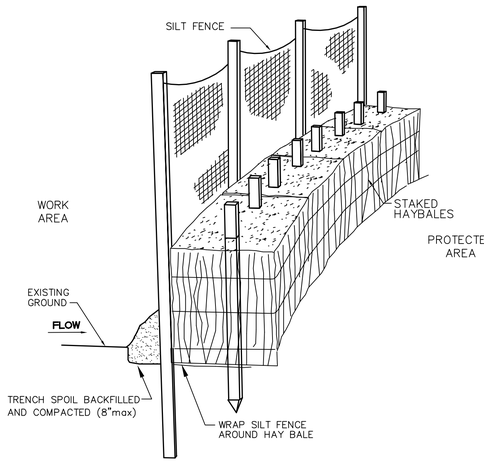


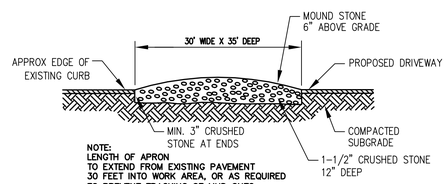
1. Seeding and repairs shall be performed as required. Sediment and debris shall be removed at least once a year, typically in early spring prior to the commencement of the growing season.
2. The drop inlet shall be inspected annually. Unit shall be cleaned when accumulated sediments reach a depth of 6 inches. Accumulated sediment must be disposed of in accordance with applicable local state, and federal guidelines and regulations. The contractor will be responsible for the maintenance of the unit until such time as the site work is complete. The maintenance will then be the responsibility of the owner(s).
3. The infiltration basin shall be inspected a minimum of twice annually and after major storm events. Embankments shall be mowed periodically at least twice annually. Any woody vegetation shall be removed from embankments. The outlet shall be inspected twice annually and kept clean of debris. Any accumulated sediment shall be removed from the basin affected areas are to be loamed and seeded as necessary in order to maintain vegetation in a healthy condition.
4. The drainage swales shall be inspected and mowed at least twice annually. Weeds and other vegetation shall be removed as necessary. The outlet shall be inspected twice annually and kept clean of debris. Sediment and debris shall be removed once a year. Grass height shall be between 3 and 6 inches.
5. The contractor will be responsible for the maintenance of all drainage structures and until such time as the site work is complete. The maintenance will then be the responsibility of the property owners.

STORMWATER COLLECTION & TREATMENT SYSTEM INSPECTION & MAINTENANCE GUIDELINES



SILT FENCE/HAYBALE BARRIER DETAIL

NOT TO SCALE



NOTE:
LENGTH OF APRON TO EXTEND FROM EXISTING PAVEMENT 30 FEET INTO WORK AREA, OR AS REQUIRED TO PREVENT TRACKING OF MUD ONTO TECHNOLOGY PARK ROAD

CONSTRUCTION ENTRANCE APRON

NOT TO SCALE

GENERAL:

1. THIS PLAN IS INTENDED TO PROVIDE GUIDANCE AND INSTRUCTION TO THE TOWN OF STURBRIDGE AND THE CONTRACTOR(S) IN THE PREVENTION OF EROSION AND SEDIMENTATION OFF SITE. THIS PLAN IS INTENDED TO ALLOW ANY CONDITIONS OF APPROVAL TO BE MORE SPECIFIC IN ADDRESSING ITEMS OF CONCERN. IF CONDITIONS BY THE TOWN OF STURBRIDGE ARE IN CONFLICT WITH REQUIREMENTS AS SPECIFIED ON THE PLANS CONDITIONS AS SPECIFIED BY THE TOWN OF STURBRIDGE SHALL SUPERSEDE THE REQUIREMENTS SPECIFIED ON THESE PLANS.

PRE-CONSTRUCTION:

1. AN EROSION CONTROL BARRIER (SEE BELOW) SHALL BE INSTALLED AS DEPICTED ON THE PLANS, BETWEEN THE AREAS TO BE DISTURBED AND RECEIVING DRAINAGE WAY AND STRUCTURES. THIS BARRIER SHALL REMAIN IN PLACE UNTIL ALL TRIBUTARY SURFACES HAVE BEEN FULLY STABILIZED. THE EROSION CONTROL BARRIERS AS SHOWN ON THE PLANS ARE THE MINIMUM PROTECTIVE MEASURES REQUIRED TO PROTECT THE ON AND OFF SITE DRAINAGE SYSTEMS.
2. THE CONTRACTOR SHALL ESTABLISH A STAGING AREA AS SHOWN ON THE PLAN FOR THE OVERNIGHT STORAGE OF EQUIPMENT AND STOCKPILING OF MATERIALS.
3. IN THE STAGING AREA, THE CONTRACTOR SHALL HAVE A STOCKPILE OF MATERIALS REQUIRED TO CONTROL EROSION ON-SITE TO BE USED TO SUPPLEMENT OR REPAIR EROSION CONTROL DEVICES. THESE MATERIALS SHALL INCLUDE, BUT ARE NOT LIMITED TO: HAY BALES, SILT FENCE AND CRUSHED STONE.
4. THE CONTRACTOR IS RESPONSIBLE FOR EROSION CONTROL ON & OFF SITE AND SHALL UTILIZE EROSION CONTROL MEASURES WHERE NEEDED, REGARDLESS OF WHETHER THE MEASURES ARE SPECIFIED HEREIN, ON THE PLAN OR IN ANY ORDER OF CONDITIONS.

PRELIMINARY SITE WORK:

1. MATERIAL REMOVED SHOULD BE STOCKPILED, SEPARATING THE TOPSOIL FOR FUTURE USE ON THE SITE OR IN A SECURED OFF SITE AREA APPROVED BY THE OWNER. EROSION CONTROLS SHALL BE UTILIZED ALONG THE DOWN SLOPE OF THE PILES IF THE PILES ARE TO REMAIN FOR MORE THAN THREE WEEKS.
2. IF INTENSE RAINFALL IS ANTICIPATED, THE INSTALLATION OF SUPPLEMENTAL HAY BALE DIKES, SILT FENCES, OR ARMORED DIKES SHALL BE UTILIZED.
3. IF THE SITE CONSTRUCTION OCCURS AT ANY TIME OTHER THAN THE APRIL – DECEMBER CONSTRUCTION SEASON, ALL DRAINAGE SYSTEMS TEMPORARY OR PERMANENT SHALL MAINTAIN TO ENSURE ADEQUATE HYDRAULIC CAPACITY, AND DRAINING CHARACTERISTICS.

EROSION CONTROL MEASURES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EROSION AND SEDIMENTATION ARE CONTROLLED. THIS PLAN SHALL BE SHALL BE ADAPTED TO FIT THE CONTRACTOR'S EQUIPMENT, WEATHER CONDITIONS, AND ANY CONDITIONS ISSUED BY THE TOWN OF MILLBURY.
2. THE MOST IMPORTANT ASPECTS OF CONTROLLING EROSION AND SEDIMENTATION ARE LIMITING THE EXTENT OF DISTURBANCE AND STABILIZING SURFACES AS SOON AS POSSIBLE. OF SECONDARY IMPORTANCE IN EROSION CONTROL IS THE LIMITING THE SIZE AND LENGTH OF THE TRIBUTARY DRAINAGE AREA WITHIN THE WORK SITE AND DRAINAGE STRUCTURES. THESE FUNDAMENTAL PRINCIPLES SHALL BE THE KEY FACTOR IN THE CONTRACTOR'S CONTROL OF EROSION ON THE SITE.
3. THE EXISTING SOIL CONDITIONS PROVIDE THE POTENTIAL OF RUNOFF TO OFF-SITE AREAS WITH EROSION POTENTIAL.
4. ALL DISTURBED SURFACES SHALL BE STABILIZED A MINIMUM OF 14 DAYS AFTER CONSTRUCTION IN ANY PORTION OF THE SITE HAS CEASED OR IS TEMPORARILY HALTED UNLESS ADDITIONAL CONSTRUCTION IS INTENDED TO BE INITIATED WITHIN 21 DAYS.
5. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE AND REPAIR OF ALL EROSION CONTROL DEVICES WITHIN THE LIMIT OF WORK. ALL EROSION CONTROL DEVICES SHALL BE REGULARLY INSPECTED. ANY SEDIMENTS REMOVED FROM THE CONTROL DEVICES SHALL BE DISPOSED OF.
6. AT NO TIME SHALL SILT-LADEN WATER BE ALLOWED TO ENTER SENSITIVE AREAS (WETLANDS, OFF-SITE AREAS AND DRAINAGE SYSTEMS). ANY RUNOFF FROM DISTURBED SURFACES SHALL BE DIRECTED THROUGH SETTLING BASINS AND EROSION CONTROL BARRIERS PRIOR TO ENTERING ANY SENSITIVE AREAS.

GENERAL CONSTRUCTION REQUIREMENTS:

1. ANY REFUELING OF CONSTRUCTION VEHICLES AND EQUIPMENT SHALL NOT TAKE PLACE INSIDE OF A 100 FOOT BUFFER ZONE, NEAR THE ENTRANCE TO ANY DRAINAGE SYSTEM AND SHALL NOT BE CONDUCTED IN PROXIMITY TO SEDIMENTATION BASINS OR DIVERSION SWALES.
2. NO ON-SITE DISPOSAL OF STUMPS, SOLID WASTE, INCLUDING CONSTRUCTION MATERIALS IS ALLOWED.
3. NO MATERIALS SHALL BE DISPOSED OF INTO THE WETLANDS, OR EXISTING/PROPOSED DRAINAGE SYSTEMS. ALL CONTRACTORS INCLUDING: CONCRETE SUPPLIERS, PAINTERS AND PLASTERERS, SHALL BE INFORMED THAT THE CLEANING OF EQUIPMENT IS PROHIBITED IN AREAS WHERE THE WASH-WATER WILL DRAIN DIRECTLY TO THE SITE DRAINAGE SYSTEMS.
4. CONTRACTOR IS RESPONSIBLE FOR DUST CONTROL WHICH SHALL INCLUDE STREET SWEEPING AND/OR WATERING OF ALL PAVED SURFACES WITHIN THE SITE AND OFF-SITE THAT ARE IMPACTED BY SITE CONSTRUCTION ON A REGULAR BASIS, A MINIMUM OF ONCE PER WEEK AND/OR AS NECESSARY.
5. THE CONTRACTOR SHALL UNDERTAKE ALL WORK TO LIMIT AIRBORNE SEDIMENTS, ONLY CLEAN, POTABLE WATER MAY BE USED TO CONTROL DUST.

LANDSCAPING:

1. LANDSCAPING SHALL OCCUR AS SOON AS POSSIBLE TO PROVIDE PERMANENT STABILIZATION OF DISTURBED SURFACES.
2. CONTRACTOR SHALL UTILIZE A VARIETY OF SLOPE STABILIZATION METHODS AND MATERIALS WHICH SHALL BE ADJUSTED TO THE SITE CONDITIONS. EROSION CONTROL BLANKETS OR MIRAFI MIRAMAT (OR SIMILAR PRODUCTS) SHALL BE AVAILABLE ON SITE.
3. IF THE SEASON OR ADVERSE WEATHER CONDITIONS DO NOT ALLOW THE ESTABLISHMENT OF VEGETATION, TEMPORARY MULCHING WITH HAY, TACKIFIED WOOD CHIPS OR OTHER METHODS SHALL BE PROVIDED.
4. ALL DISTURBED SURFACES TO BE PLANTED SHALL RECEIVE A MINIMUM OF 6" TOPSOIL SHALL BE PLACED AND ITS SURFACE SMOOTHED TO THE SPECIFIED GRADES.
5. ALL SLOPES OF 2:1 OR GREATER SHALL BE STABILIZED WITH EROSION CONTROL FABRIC.
6. SEED APPLICATIONS SHALL BE IN ACCORDANCE WITH THE GRASS AND SLOPE COVER SPECIFICATIONS.
7. TO ENSURE A DENSE, SUCCESSION GROWTH, SEED IS REQUIRED ON ALL DISTURBED SURFACES.

CONSTRUCTION SEQUENCING

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE.
2. INSTALL HAY BALES AND SILT FENCE ON DOWN HILL SLOPE OF INFILTRATION BASIN AND AS SHOWN ON CONSTRUCTION DRAWINGS. CONSTRUCT TEMPORARY SEDIMENT TRAP.
3. CLEAR AND GRUB FOR INFILTRATION BASIN, SEDIMENT FOREBAYS, AND GRASS CHANNELS.
4. CONSTRUCT INFILTRATION BASIN, SEDIMENT FOREBAYS, AND GRASS CHANNELS.
5. STABILIZE EXPOSED AREAS AND STOCKPILES WITHIN 14 DAYS OF LAST CONSTRUCTION ACTIVITY IN THIS AREA.
6. INSTALL PAVEMENT SUB-GRADE (OUTSIDE OF TEMPORARY SEDIMENT TRAP AREA) AND UTILITIES.
7. INSTALL BUILDING FOUNDATION.
8. COMPLETE BUILDING AND PARKING AREAS. PLACE STORMWATER BMP'S IN SERVICE.
9. COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTINGS.
10. CLEAN INFILTRATION BASIN AND GRASS CHANNELS AND REMOVE HAY BALES AND SILT FENCES AFTER AREA STABILIZED.

9/5/19

LEGEND:

- EXISTING PROPERTY LINE
- EXISTING EASEMENT LINE
- 730 EXISTING CONTOUR – HIGH
- 731 EXISTING CONTOUR – LOW
- 730 PROPOSED CONTOUR – HIGH
- 731 PROPOSED CONTOUR – LOW
- EXISTING EDGE PAVEMENT
- EXISTING CURB
- PROPOSED EDGE OF PAVEMENT
- PROPOSED CURB
- EDGE VEGETATED WETLAND
- WETLAND BUFFER
- D PROPOSED DRAIN LINE
- S EXISTING SEWER LINE
- S PROPOSED SEWER LINE
- W EXISTING WATER LINE
- W PROPOSED WATER LINE
- EXISTING OVERHEAD WIRES
- E PROPOSED UNDERGROUND ELECTRIC
- PROPOSED TREE LINE
- PROPOSED EROSION CONTROL

GRAPHIC SCALE

40 0 20 40 80 160

(IN FEET)
1 inch = 40 ft.

REV. NO.	DATE	REVISION

TITLE:

SITE DEVELOPMENT PLAN
FOR
51 TECHNOLOGY PARK ROAD
STURBRIDGE, MASSACHUSETTS 01566

PREPARED FOR:

DILEO GAS
630 SUNDERLAND ROAD
WORCESTER, MASSACHUSETTS 01604

PREPARED BY:

J.M. GRENIER ASSOCIATES INC.
787 HARTFORD TURNPIKE
SHREWSBURY, MASSACHUSETTS 01545
TELE NO.: (508) 845-2500 FAX NO.: (508) 842-0800

SCALE:	DATE:
1" = 40'	SEPTEMBER 5, 2019

EROSION & SEDIMENTATION CONTROL PLAN

SHEET NO.:	PROJECT NO.:
SHEET 7 OF 9	G-565