

**ABBREVIATIONS**

AC	ASBESTOS CEMENT
APPROX	APPROXIMATE
BLDG	BUILDING
BS	BASEMENT SLAB
CB	CATCH BASIN
CMP	CORRUGATED METAL PIPE
BB	BITUMINOUS BERM
BIT	BITUMINOUS CONCRETE
BLDG	BUILDING
BRK	BRICK
CONC	CEMENT CONCRETE
D	DRAIN
DRV	DRIVEWAY
DMH	DRAIN MANHOLE
E	ELECTRIC
EOP	EDGE OF PAVEMENT
EX	EXISTING
FF	FIRST FLOOR
GS	GARAGE SLAB
GPS	GLOBAL POSITIONING SYSTEM
INV	INVERT
IB	IRRIGATION BOX
N/F	NOW OR FORMERLY
OHW	OVERHEAD WIRE
S	SEWER
SMH	SEWER MANHOLE
SS	SEWER SERVICE
TYP	TYPICAL
VC	VITRIFIED CLAY
VIF	VERIFY IN FIELD
W	WATER
WS	WATER SERVICE

**EXISTING LEGEND**

△	EX. MAG NAIL
○	EX. HUB
○	EX. IRON PIN
○	EX. ANGLE IRON
○	EX. SEWER MANHOLE
○	EX. CATCH BASIN
○	EX. DRAIN MANHOLE
○	EX. HYDRANT
○	EX. TREE/ TRUNK DIA.
○	EX. LIGHT POST
○	EX. UTILITY POLE
—S—	EX. SEWER LINE
—G—	EX. GAS LINE
—D—	EX. DRAIN LINE
—W—	EX. WATER LINE
—OHW—	EX. OVERHEAD WIRE
---	EX. RESOURCE AREA BUFFER
---	EX. 5' CONTOURS
---	EX. 1' CONTOURS
---	EX. SPOT GRADE
---	EX. PROPERTY LINE
---	EX. RIGHT-OF-WAY
---	EX. EASEMENT LINE

**SITE IMPROVEMENT LEGEND**

[Pattern]	LOAM & SEED 6" DEPTH
[Pattern]	GRANITE CURB
[Symbol]	EROSION CONTROL FILTER TUBE
[Symbol]	SPOT GRADE
[Symbol]	CONTOUR

**COMPENSATORY FLOOD STORAGE:**

FLOOD STORAGE VOLUME LOST: 110± CF (4.1± CY)  
FLOOD STORAGE VOLUME REPLACED: 120± CF (4.4± CY)

**GENERAL NOTES**

- PLANS AND TOPOGRAPHIC INFORMATION ARE PREPARED FROM GROUND SURVEY BY GCG ASSOCIATES, INC. PERFORMED IN AUGUST 17, 2021.
- COORDINATES REFER TO MASSACHUSETTS STATE PLANE COORDINATE SYSTEM (NAD 83). ELEVATIONS REFER TO NAVD 1988.
- ALL LOCATIONS OF SUBSURFACE UTILITIES AND STRUCTURES WERE OBTAINED FROM AVAILABLE TOWN AND UTILITY RECORDS. THE SIZE, TYPE AND LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL PROPERLY LOCATE THE UTILITIES PRIOR TO THE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN UTILITY INFORMATION BY CONTACTING DIGSAFE (811). THE CONTRACTOR SHALL EXCAVATE TEST PITS TO VERIFY UTILITY LINES.
- PROPERTY LINES, BUILDINGS AND DRIVEWAY LOCATIONS SHOWN FOR ABUTTING PROPERTIES ARE APPROXIMATE.
- THE PROPERTY IS IN FLOOD PLAIN AS SHOWN ON MAP 25017C0429E AND 25017C0433E EFFECTIVE DATE JUNE 4, 2010 AND REVISED TO REFLECT LOMR EFFECTIVE DECEMBER 3, 2018
- PRIOR TO THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND CITY WITH A CONSTRUCTION SCHEDULE DELINEATING THE SEQUENCE OF WORK, A TRAFFIC MANAGEMENT PLAN AND ESTIMATED TIME OF COMPLETION FOR EACH SEGMENT OF WORK.
- TRAFFIC MANAGEMENT PLAN, TO BE PROVIDED BY THE CONTRACTOR, SHALL BE SUBMITTED FOR CITY REVIEW AND SHALL BE IN COMPLIANCE WITH MASSDOT AND MUTCD.
- ALL CONSTRUCTION SIGNING SHALL CONFORM TO THE REQUIREMENTS OF MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MASSDOT) AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- THE CONTRACTOR SHALL MAINTAIN CONTINUOUS TRAFFIC FLOW AND ACCESS TO ALL RESIDENCES DURING CONSTRUCTION SATISFACTORY TO THE ENGINEER AND THE CITY OF MELROSE.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES AND PROCEDURES, AND FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH ALL WORK INCLUDED UNDER THIS CONTRACT. THE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL SAFETY BARRIERS, WARNING FLASHERS AND THE LIKE, AS REQUIRED BY THE CONDUCT OF THE WORK FOR THE PROTECTION OF WORKERS AND NON-WORKERS ALIKE. THE CONTRACTORS ATTENTION IS DIRECTED TO OSHA REQUIREMENTS.
- ALL CONSTRUCTION MATERIAL, DEBRIS, ASPHALT, SOIL, ETC. THAT IS REMOVED FROM THE SITE SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SITE RESTORATION AND CLEAN UP UPON COMPLETION OF THE PROJECT. DURING THE COURSE OF CONSTRUCTION, ANY DAMAGE TO FENCES, GUARDRAILS, PATHS, STAIRS, PAVEMENT, LANDSCAPING OR VEGETATION SHALL BE REPAIRED OR REPLACED AND RESTORED TO ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE CONTRACT. ANY REPLACEMENT FENCE AND/OR HANDRAILS SHALL MATCH EXISTING.
- ALL CASTINGS, GATE BOXES, HYDRANTS, LIGHT POLES, ETC. DAMAGED DURING RECONSTRUCTION SHALL BE SUPPLIED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.
- ALL TRENCHES SHALL BE SAWCUT ONLY. NO OTHER METHOD OF CUTTING THE EXISTING PAVEMENT SHALL BE ACCEPTABLE. NO SEPARATE PAYMENTS SHALL BE MADE FOR THIS CUTTING.
- THE CONTRACTOR SHALL PAVE AND REPAIR ALL CURBING, SIDEWALKS, WALKWAYS, DRIVEWAYS, AND ROADS DISTURBED, DAMAGED OR REMOVED DURING CONSTRUCTION. ITEMS SHALL BE REPLACED WITH THE SAME TYPE OF MATERIAL ONCE THE WORK IS COMPLETED.
- THE CONTRACTOR SHALL REMOVE AND REPLACE OR SUPPORT UTILITY POLES WITHIN 10 FEET OF THE PROPOSED UTILITY PIPE CENTERLINE OR AS DIRECTED BY THE ENGINEER.
- POLICE DETAILS SHALL BE COORDINATED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL LOAM AND SEED ALL DISTURBED AREAS.
- THE CONTRACTOR SHALL PROVIDE GENERAL CLEAN-UP TO THE ENTIRE PROJECT SITE.
- THE CONTRACTOR SHALL FURNISH AND AND INSTALL OR REMOVE AND REPLACE SIGNS AS REQUIRED TO PERFORM THE PROPOSED WORK.
- THE CONTRACTOR SHALL MAINTAIN ONE LANE OF TRAFFIC AT ALL TIMES DURING THE CONSTRUCTION, AND SHALL MAINTAIN ACCESS TO ALL RESIDENTIAL DRIVEWAYS AND ACCESS WAYS.
- DAMAGE TO ANY UTILITY WILL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE, IN A TIMELY MANNER SO THAT DISRUPTION OF SERVICE TO ANY UTILITY WILL NOT BE LONGER THAN PRACTICALLY NECESSARY TO REPAIR THE DAMAGE. THE CONTRACTOR SHALL COORDINATE REPAIR WITH THE APPROPRIATE UTILITY COMPANY AND THE CITY OF WALTHAM.
- ANY DEWATERED GROUNDWATER SHALL BE TREATED TO REMOVE SILT PRIOR TO DISCHARGING. THE DISCHARGE LOCATION AND DEWATERING PROCEDURES SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF THE DEWATERING ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING ANY DEBRIS, SEDIMENT OR SILTY WATER FROM ENTERING ANY WATERCOURSE, WETLAND, DRAINAGE SYSTEM, ETC. DURING ALL PHASES OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROVIDE SEDIMENTATION CONTROLS AT ALL CATCH BASINS IN ORDER TO PREVENT SEDIMENT OR SILTY WATER FROM ENTERING THE DRAINAGE SYSTEM. TYPICAL SEDIMENTATION CONTROLS MAY INCLUDE HAY BALES, SILT FENCE, SILT SACKS, CRUSHED STONE OR OTHER SIMILAR TYPES OF CONTROLS THAT CAN PERFORM THE INTENDED FUNCTION. THE TYPE OF SEDIMENTATION CONTROLS TO BE USED SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. SEDIMENTATION CONTROLS SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF CONSTRUCTION AND SHALL BE REPLACED AS NECESSARY AT NO ADDITIONAL EXPENSE. THIS WORK SHALL BE PAID FOR UNDER THE MISCELLANEOUS WORK ITEM.

**UTILITY MARKING AND LOCATION NOTES**

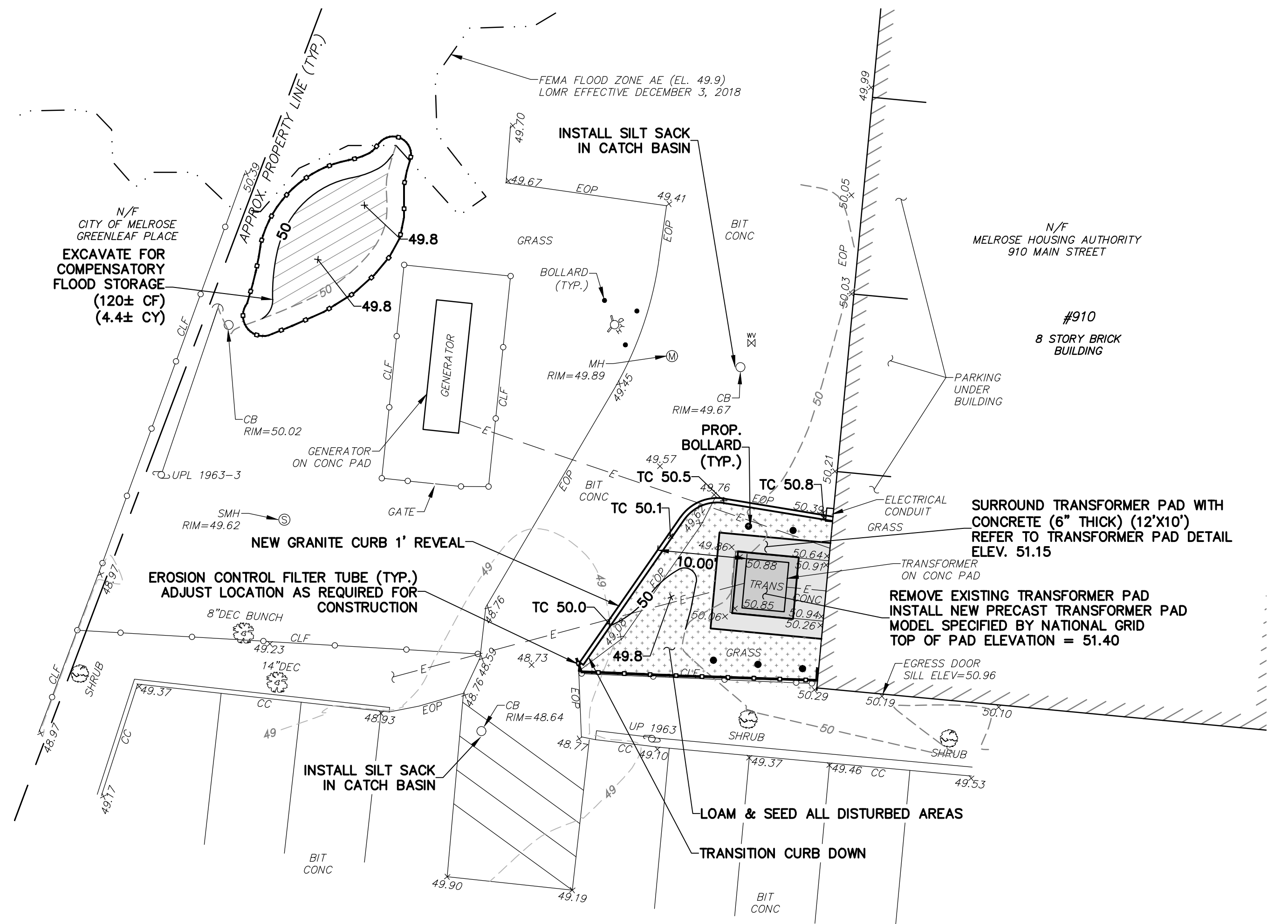
- BEFORE CONSTRUCTION, ALL UTILITIES, PUBLIC AND PRIVATE MUST BE NOTIFIED (SEE MASSACHUSETTS GENERAL LAWS, CHAPTER 82 SECTION 40.) CALL "DIG SAFE" - 811, OR CUSTOMER SERVICE - 1 (888) 344-7233 HTTP://WWW.DIGSAFE.COM
- SUBSURFACE UTILITY LINES, AS SHOWN HEREON, WERE COMPILED ACCORDING TO AVAILABLE RECORD INFORMATION FROM THE REFERENCED UTILITY COMPANIES AND THE CITY OF WALTHAM. LOCATIONS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. GCG ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
- WATER MAINS ARE ASSUMED TO BE 5 FEET BELOW EXISTING GROUND SURFACE OR AS NOTED ON PLANS. GAS LINES ARE ASSUMED TO BE 3 FEET BELOW EXISTING GROUND SURFACE. TELEPHONE AND ELECTRIC CONDUIT ARE ASSUMED TO BE 2 FEET BELOW EXISTING GROUND SURFACE.
- THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITY SERVICES AS SHOWN ON THE PLAN AND BE RESPONSIBLE FOR LOCATING ANY ADDITIONAL SERVICES NOT SHOWN. THE CONTRACTOR SHALL ACCURATELY LOCATE THE EXISTING WATER PIPES CONNECTED TO EACH STRUCTURE THAT HAVE NOT PREVIOUSLY BEEN MARKED OUT WITHIN THE LIMITS OF WORK PRIOR TO CONSTRUCTION. THIS WORK SHALL BE INCLUDED IN THE MISCELLANEOUS ITEMS PRICE.
- THE CONTRACTOR SHALL EXCAVATE TEST PITS TO VERIFY UTILITY LINE LOCATIONS AND DETERMINE ACTUAL FIELD CONDITIONS AS NECESSARY OR AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PLAN AND PERFORM TEST PIT EXCAVATION WELL IN ADVANCE OF COMMENCING CONSTRUCTION IN THE GENERAL AREA TO ALLOW TIME TO REVIEW ACTUAL CONDITIONS ENCOUNTERED. TEST PITS NOT SPECIFICALLY IDENTIFIED SHALL BE EXCAVATED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER. PAYMENT INCLUDED UNDER ITEM 3A.
- EXISTING UTILITIES INTERFERING WITH THE WORK SHALL BE RELOCATED OR BRACED AND SUPPORTED AS DIRECTED IN THE FIELD BY THE ENGINEER, UNLESS OTHERWISE INDICATED OR SPECIFIED. THE CONTRACTOR SHALL BE PAID FOR WORK REQUIRED TO SUPPORT OR REMOVE AND REPLACE EXISTING STRUCTURES AND UTILITY LINES ADJACENT TO OR WITHIN THE LIMITS OF TRENCH EXCAVATION UNDER THE MISCELLANEOUS WORK ITEM.
- DAMAGE TO ANY UTILITY WILL BE REPAIRED BY THE CONTRACTOR, AT THE CONTRACTOR'S EXPENSE, IN A TIMELY MANNER SO THAT DISRUPTION OF SERVICE TO ANY UTILITY WILL NOT BE LONGER THAN PRACTICALLY NECESSARY TO REPAIR THE DAMAGE.

**STOCKPILED MATERIALS AND EQUIPMENT**

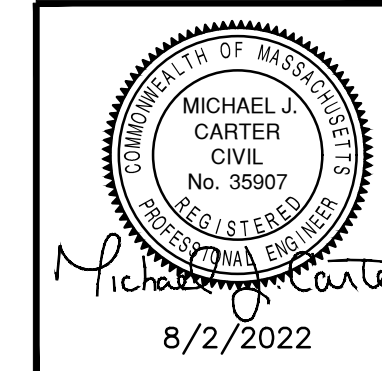
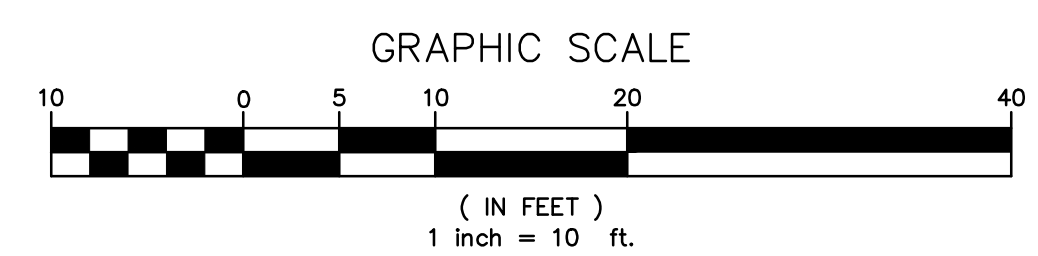
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING A LOCATION FOR STAGING AND STORING STOCKPILED MATERIALS.
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF LOCATION AND ANY PRIVATE AGREEMENTS AND ALL FEES THAT MAY BE ASSOCIATED WITH THE USE OF AN AREA FOR STORING STOCKPILED MATERIALS.
- THE CITY OF MELROSE IS NOT RESPONSIBLE FOR PROVIDING A LOCATION FOR STAGING OR THE STORAGE OF STOCKPILED MATERIALS.
- MATERIALS SHALL NOT BE STOCKPILED ON THE ROAD OR IN PUBLIC PARKING AREAS.
- NO EQUIPMENT SHALL BE ALLOWED TO BE PARKED ON THE ROAD WHEN NOT IN USE.
- ALL SURPLUS EXCAVATED MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DISPOSE OF OFFSITE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

**SITE EROSION & SEDIMENT CONTROL NOTES**

- THE CONTRACTOR SHALL COMPLY WITH EROSION AND SEDIMENTATION CONTROL DETAILS AND NOTES.
- STRAW EROSION AND SEDIMENT CONTROL BARRIER SHALL BE PLACED AT DOWNSTREAM PROJECT LIMITS PRIOR TO THE COMMENCEMENT OF WORK. WATTLES SHALL BE INSPECTED DAILY AND CLEANED OR REPAIRED AS NEEDED DURING CONSTRUCTION PERIOD.
- CONSTRUCTION PERIOD SILT SACKS SHALL BE USED AT ALL CATCH BASINS. SILT SACKS SHALL BE KEPT FREE OF SEDIMENT AND DEBRIS, INSPECTED WEEKLY AND REPAIRED PROMPTLY.



**PLAN**  
SCALE: 1" = 10'



**100% CONSTRUCTION DOCUMENTS**  
DHCD PROJECT #178130

**C. J. McCARTHY APARTMENTS (667-1)**  
910 MAIN STREET, MELROSE, MA

**MELROSE HOUSING AUTHORITY**  
TRANSFORMER PAD RESILIENCY  
SITE PLAN

**GCG ASSOCIATES, INC.**  
WILMINGTON MASSACHUSETTS

SCALE: 1" = 10' DATE: AUGUST 2, 2022

JOB NO. FILE NAME:	DESIGNED BY: J.P.G.	PLAN NO.
2174-WORKING-100%	DRAWN BY: J.P.G.	1 OF 2
	CHECKED BY: M.J.C.	

**OWNER:**  
MELROSE HOUSING AUTHORITY  
910 MAIN STREET  
MELROSE, MA 02176

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**EROSION AND SEDIMENT CONTROL MAINTENANCE**

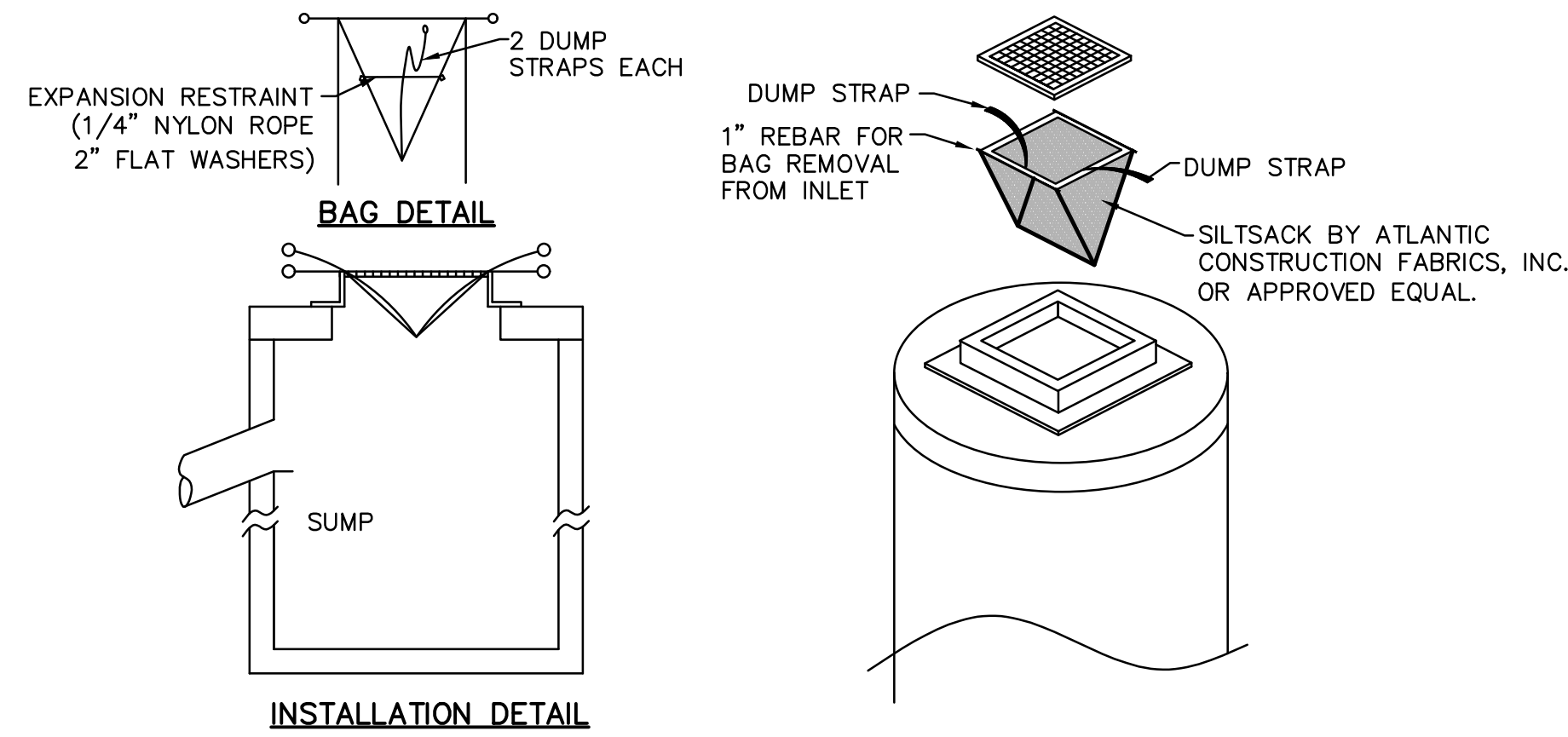
DURING CONSTRUCTION, AS SMALL AN AREA OF SOIL AS POSSIBLE SHOULD BE EXPOSED OR AS SHORT A TIME AS POSSIBLE. AFTER CONSTRUCTION, GRADE, RESPREAD TOPSOIL, AND STABILIZE SOIL BY SEEDING AND MULCHING AS TO PREVENT EROSION.

ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A DAILY BASIS AND FOLLOWING ALL STORMS BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE RESIDENT ENGINEER. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF REQUEST.

THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, AND PIPES AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP, AND CLEAN SEDIMENT COVERED STONES.

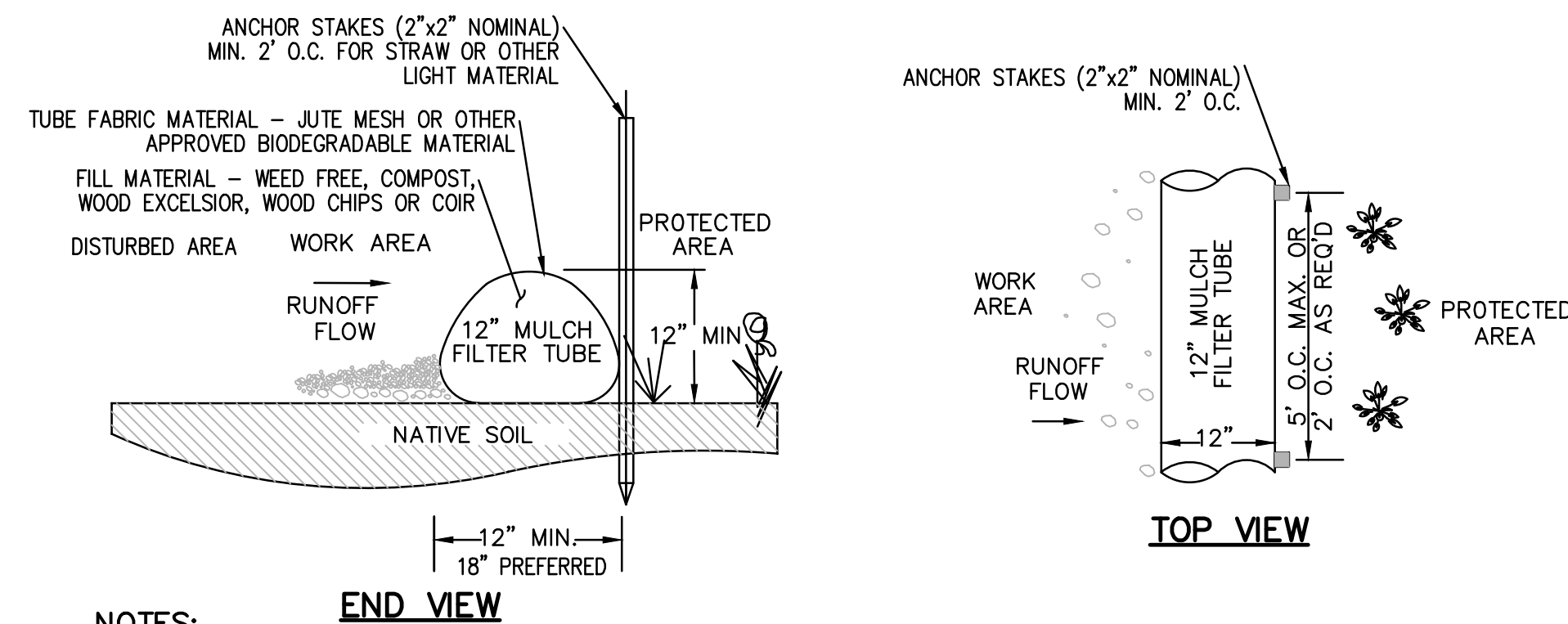
TRENCHES WITHIN PAVED ROADWAY TO BE CLOSED WITH 3" TEMPORARY PAVEMENT AT THE END OF EACH WORK DAY.

CONTRACTOR TO PERFORM STREET SWEEPING AT THE END OF EACH WORK DAY.



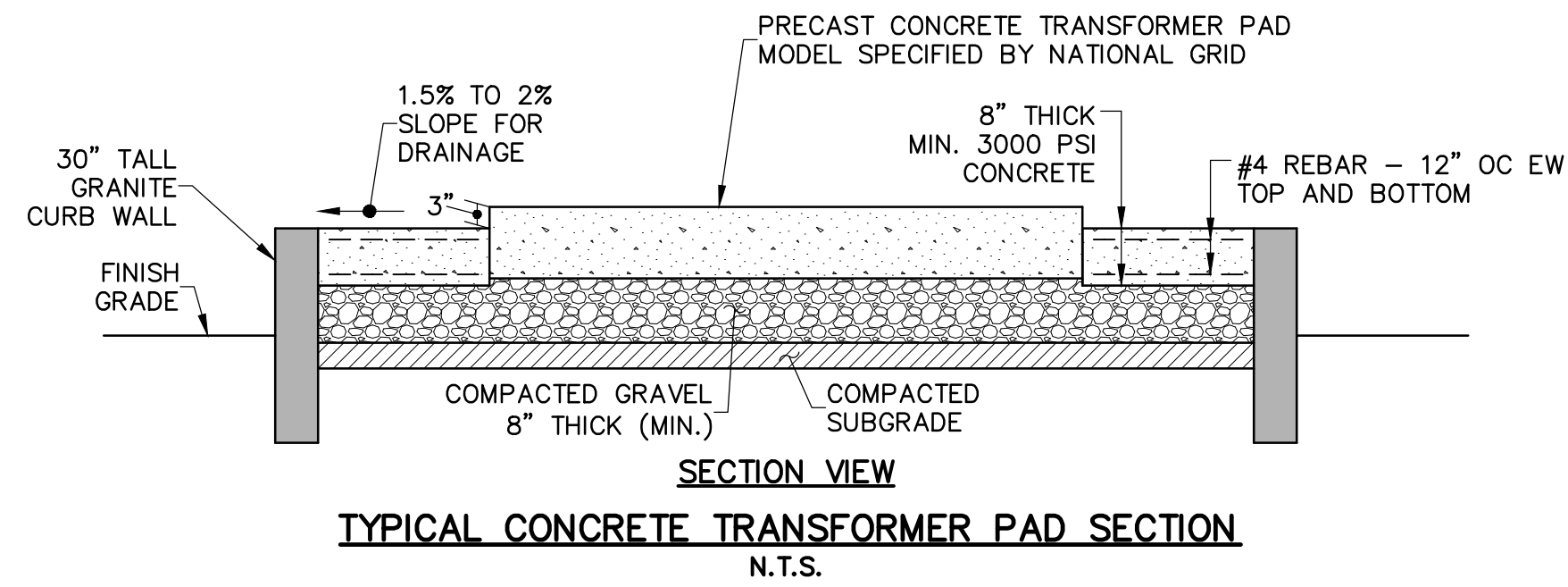
1. SILT SACKS SHALL BE INSTALLED IN ALL CATCH BASINS DURING CONSTRUCTION PERIOD.
2. INSPECTION SHALL BE WEEKLY AND REPAIR/REPLACEMENT MADE PROMPTLY AS NEEDED.
3. SILT SACKS SHALL BE KEPT CLEAN AND FREE OF DEBRIS.

**SILTSACK DETAIL**  
N.T.S.

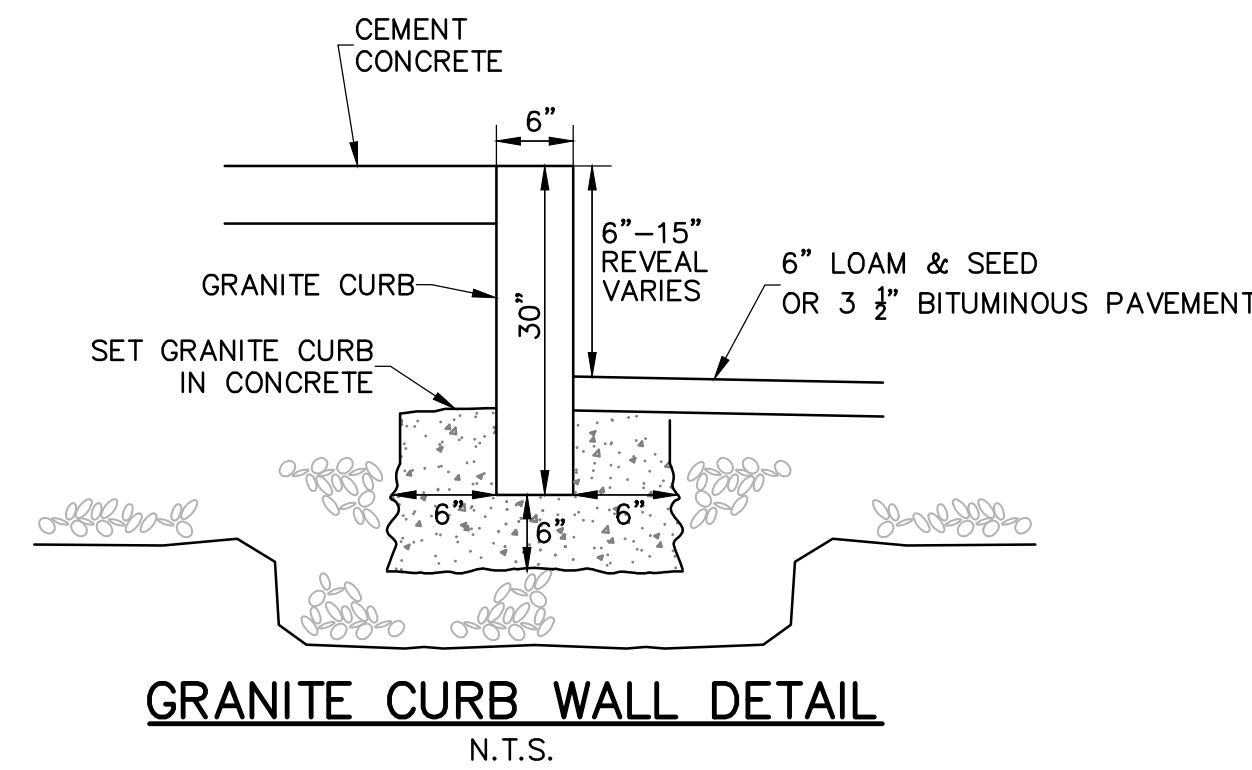


- NOTES:**
1. TUBES MAY BE FILLED ON SITE OR SHIPPED.
  2. ENSURE PROPER LOCATION AT SITE FOR EFFECTIVENESS.
  3. TUBES SHALL BE PLACED AND STAKED IN PLACE AS REQUIRED TO ENSURE STABILITY AGAINST WATER FLOWS.
  4. TUBES FILLED WITH LIGHT MATERIAL SHALL BE STAKED AT A MAXIMUM OF 2 FEET ON CENTER. FOR HEAVIER MATERIAL, 5 FEET ON CENTER.
  5. TUBES SHALL BE TAMPED TO ENSURE GOOD CONTACT WITH SOIL.
  6. INSPECT AFTER EACH RAINFALL OR DAILY DURING RAINFALL EVENTS. CORRECT ALL DEFICIENCIES IMMEDIATELY.
  7. FAILURE INCLUDES BUT IS NOT LIMITED TO WASHOUT, OVERTOPPING, CLOGGING, AND EROSION. IF OVERTOPPING OR WASHOUT OCCURS, NEW FILTER TUBES WITH ADDITIONAL STAKING OR MULCH MATERIAL SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
  8. FILTER TUBES SHALL BE REMOVED ONCE SITE WORK IS COMPLETE, SITE IS STABLE, ADEQUATE GROWTH HAS BEEN ESTABLISHED AND AS DIRECTED BY THE ENGINEER. TUBE FABRIC SHALL BE CUT, REMOVED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR AT NO ADDITIONAL COST. AS DIRECTED BY ENGINEER, REMAINING MULCH MATERIAL MAY BE RAKED OUT SO NO MATERIAL IS GREATER THAN 2" IN DEPTH.

**MULCH FILTER TUBE DETAIL**  
N.T.S.



**TYPICAL CONCRETE TRANSFORMER PAD SECTION**  
N.T.S.



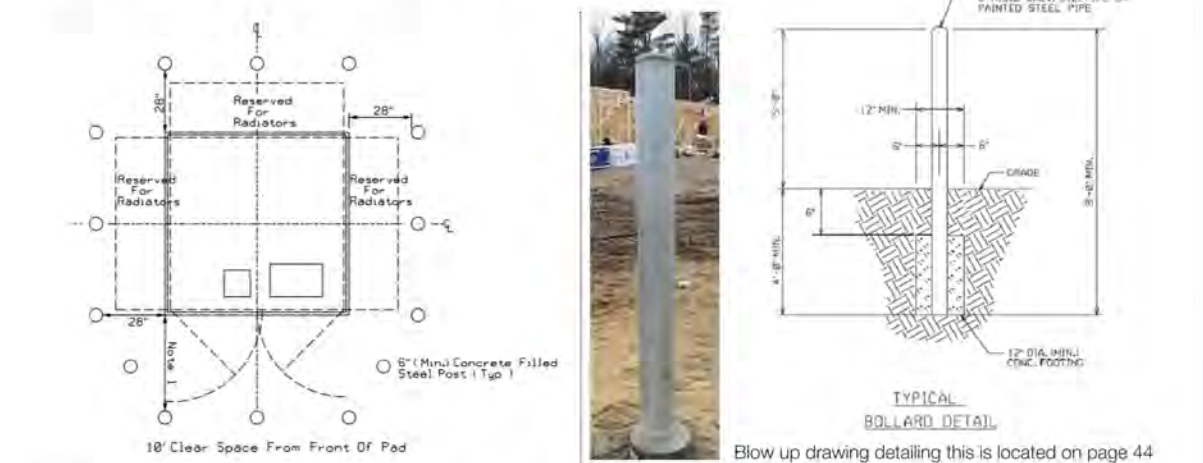
**GRANITE CURB WALL DETAIL**  
N.T.S.

**11.0 Transformer Mechanical Protection/Bollards**

Whenever possible, equipment should be located so it is not subject to vehicular damage. If this is not feasible, adequate guards such as concrete filled pipes (Bollards) shall be placed to protect the equipment.

Bollards shall consist of 6 inch minimum diameter hot dip galvanized or painted steel pipes filled with concrete. When Bollards can not be painted at the time of installation, painted covers shall be installed. Page 56 shows manufacturer. Bollards are to be 5 feet above the ground and a minimum of 4 feet below the ground. Bollards to be set in a concrete footing as shown in detail below. Concrete is to be crowned on top of all bollards. Bollards shall be installed with due care to avoid interfering with ground grid and conduits. Refer to Pages 37 thru 40 for Transformer Pad dimensions. For switchgear locations, see pages 34 and 35.

The number, type (galvanized or steel) and locations of bollards shall be determined by Distribution Design/Planning, taking into account proximity to traffic and to buildings as well as other barriers to traffic. Other factors such as salt spray and fertilizers may impact type of bollard required. Suggested bollard locations and dimensions are shown below. The location of bollards shall not impede a door opening of 100 degrees.



Bollards Required	●
Bollards Not Required	⊗

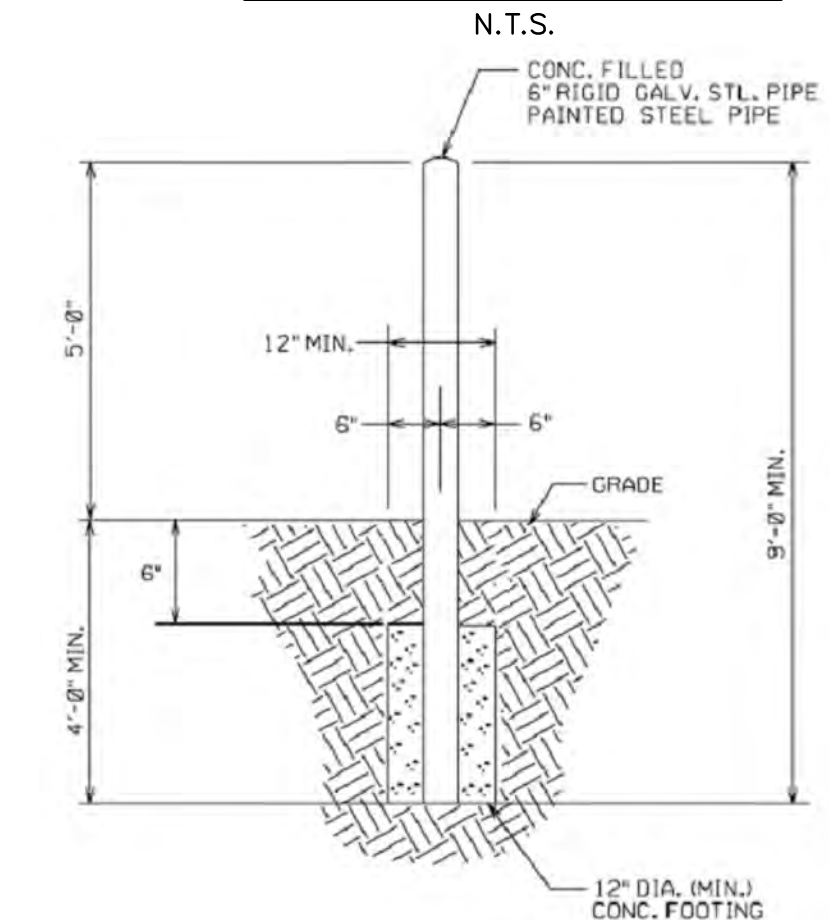


Picture of Bollard cover, use for when Bollards can not be painted.

- Notes:**
1. Six foot minimum clearance from front of pad.
  2. Distribution Design/Planning shall designate the number and location of Bollards by marking the Bollards of this drawing as follows.
  3. Bollards shall be supported with a 12" minimum diameter concrete footing 6" below grade to base of the bollard.
  4. For installations around oil containment curbs, install bollards six feet minimum on all applicable sides.

12 For the latest authorized version, please refer to the company's website at <http://www.nationalgridus.com/electricalspecifications>.

**BOLLARD SPACING DETAIL**



**BOLLARD DETAIL**  
N.T.S.

**100% CONSTRUCTION DOCUMENTS**  
DHCD PROJECT #178130

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MELROSE HOUSING AUTHORITY  
TRANSFORMER PAD RESILIENCY  
SITE DETAILS

**GCG ASSOCIATES, INC.**

WILMINGTON MASSACHUSETTS

SCALE: AS NOTED DATE: AUGUST 2, 2022

JOB NO. / FILE NAME:	DESIGNED BY: J.P.G.	PLAN NO.
2174-DETAILS-100%	DRAWN BY: J.P.G.	2 OF 2
	CHECKED BY: M.J.C.	

**OWNER:**  
MELROSE HOUSING AUTHORITY  
910 MAIN STREET  
MELROSE, MA 02176

