

\_\_\_\_\_ FOR \_\_\_\_\_



## FUELING STATION IMPROVEMENTS

**27 WORCESTER-PROVIDENCE TURNPIKE,**

**WORCESTER COUNTY, MASSACHUSETTS**

## REFERENCES

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## REVISIONS

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PROJECT:

## PROPOSED SITE PLAN DOCUMENTS

— FOR —



## PROPOSED FUELING STATION IMPROVEMENTS

**MAP: 5 BLOCK: 18  
27 WORCESTER PROVIDENCE  
TURNPIKE,  
TOWN OF SUTTON,  
WORCESTER COUNTY,  
MASSACHUSETTS**

**352 TURNPIKE ROAD**  
**SOUTHBOROUGH, MA 01772**  
Phone: (508) 480-9900

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**SHEET TITLE:**

# COVER SHEET

SHEET NUMBER:

# C-101

ORG. DATE - 07/26/2023



SCALE: 1" = 1,000'  
SOURCE: USGS



SCALE: 1" = 80'  
SOURCE: MICROSOFT AERIAL  
IMAGERY 2023

**PREPARED BY**

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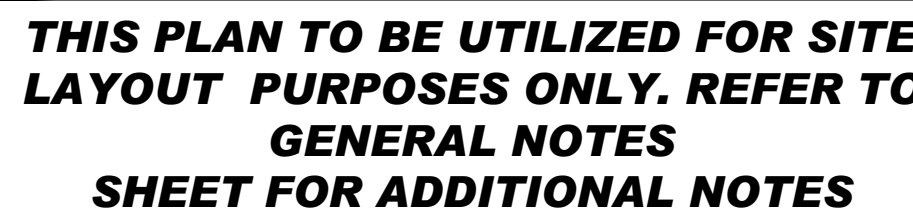
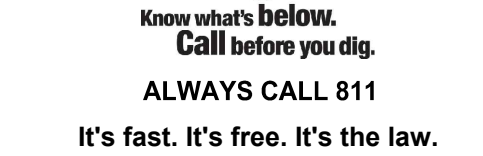
## DRAWING SHEET INDEX

## SHEET INDEX

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PROJECT No.: MAA230138  
DRAWN BY: AEH/C  
CHECKED BY: DE  
DATE: 07/26/20  
CAD I.D.: MAA230138.00-SPPD-

PROJECT:

\_\_\_\_\_ FOR \_\_\_\_\_



MAP: 5 BLOCK: 18  
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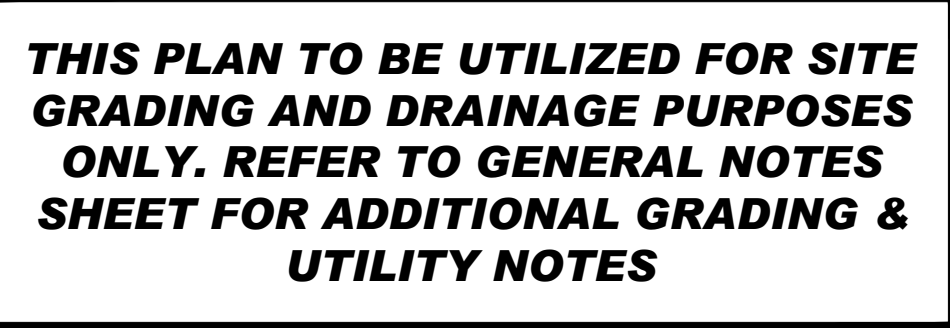
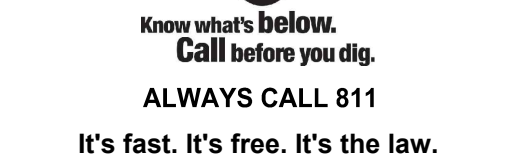
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## SHEET NUMBER: \_\_\_\_\_

**C-301**

ORG. DATE - 07/26/2023

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DRAWN BY:	AEH/CPB
CHECKED BY:	DEG
DATE:	07/26/2023
CAD I.D.:	MAA230138.00-SPPD-0A

PROJECT:

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PLAN DOCUMENTS**

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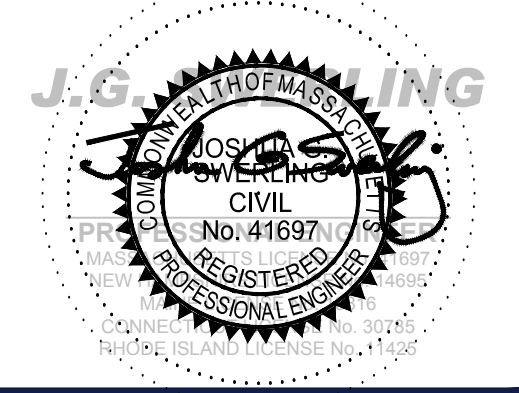
**PROPOSED FUELING  
STATION IMPROVEMENTS**

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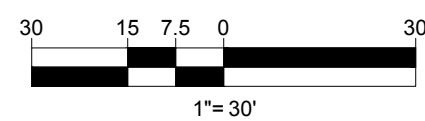
**SHEET TITLE:**

# GRADING & DRAINAGE PLAN

SHEET NUMBER:

**C-401**

ORG. DATE - 07/26/2023



**REFER TO SOIL EROSION CONTROL  
NOTES & DETAIL SHEET FOR  
EROSION NOTES AND DETAILS**

ORG. DATE - 07/26/2023

1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE MOST CURRENT STATE SEDIMENT AND EROSION CONTROL MANUAL.
2. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME FRAME. SLOPE SHALL BE PERMANENTLY STABILIZED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. AT A MINIMUM, AREAS SHALL BE PERMANENTLY STABILIZED ACCORDING TO THE CURRENT EDITION OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), OR IN THE ABSENCE OF A SWPPP, THEY SHALL BE PERMANENTLY STABILIZED WITHIN 14 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN A STREAM OR A FLAGGED STREAM FLOOD, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WILL INCLUDE WETLANDS).
3. SEDIMENT BARRIERS (SILT FENCE, TROUGH BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 8%.
4. INSTALL SILTATION BARRIER AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILTATION BARRIER DETAILS FOR PROPER INSTALLATION. SILTATION BARRIER WILL REMAIN IN PLACE PER NOTE #8.
5. ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR OTHER DETECTED SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPLOUSE ARE PERMANENTLY STABILIZED. FOR SEDIMENT CONTROL DEVICES ARE WITHIN AREAS SUBJECT TO OVERFLOW COMMISSION JURISDICTION, THE DEVICES SHALL REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
6. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1) UNLESS OTHERWISE INDICATED ON THE PLANS. SLOPE PROTECTION FOR SLOPES GREATER THAN 2:1 SHALL BE DESIGNED BY A GEOTECHNICAL ENGINEER.
7. IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
8. TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.
9. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL STANDARDS.
10. REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
  - 10.1. SIX INCHES, OR DEPTH SPECIFIED ON THE LANDSCAPE PLAN, OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
  - 10.2. APPLY LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE THING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 LB PER ACRE OR 18.4 LB PER 1,000 SF USING 10-20-20 OR EQUIVALENT. APPLY GRIND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 LB PER 1,000 SF).
  - 10.3. FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEED TO A MIXTURE OF 47% CREEPING RED FESCUE, 25% PERENNIAL RYEGRASS, 12% PERENNIAL BLUEGRASS, 12% PERENNIAL FESCUE, AND 4% KENTUCKY BLUE-GRASS. 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 1.03 LBS PER 1,000 SF LAWN. QUALITY SOED MAY BE SUBSTITUTED FOR SEED WHERE SLOPES DO NOT EXCEED 2:1. SOED ON SLOPES STEEPER THAN 3:1 SHOULD BE PEGGED.
  - 10.4. STRAW MULCH AT THE RATE OF 70-90 LBS PER 1,000 SF. A HYDRO-APPLICATION OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE NON-TOXIC BINDER WILL BE USED ON STRAW MULCH FOR WIND CONTROL.
11. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS 70% STABILIZED. FOR EROSION CONTROL MEASURES THAT ARE WITHIN AREAS SUBJECT TO OVERFLOW COMMISSION JURISDICTION, THE MEASURES SHALL REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
12. WETLANDS WILL BE PROTECTED WITH BARRIERS CONSISTING OF STRAW BALES, COMPOST TUBES, SILT FENCE OR A COMBINATION THEREOF.
13. ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS.
14. ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED.

- \* A HYDRO-APPLICATION OF WOOD OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE NON-TOXIC BINDER SHALL BE USED TO ADDITIONAL WIND CONTROL.
- \* MULCH ANCHORING: ANCHOR MULCH WITH PEG AND TWINE (1 IN SQ. YD/BLOCK); MULCH NETTING (AS PER MANUFACTURER); WOOD CELLULOSE FIBER (750 LBS/ACRE); CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS); USE OF A SERRATED STRAIGHT DITCH FERTILIZER SPREADER FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED.
15. PROPOSED LOCATIONS OF SURFACE STORMWATER MANAGEMENT BASINS CAN BE UTILIZED AS A TEMPORARY SEDIMENT TRAP DURING CONSTRUCTION. SEDIMENT TRAPS SHALL BE SIZED AND CONSTRUCTED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- 15.1. TEMPORARY SEDIMENT TRAPS SHALL BE SIZED PER THE CURRENT EDITION OF THE "MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS" AND PROVIDE A MINIMUM OF 1,800 CF PER ACRE OF DRAINAGE AREA WITH A MAXIMUM TRIBUTARY AREA OF 5 ACRES. MAINTAIN A 2:1 LENGTH TO WIDTH RATIO, AND NOT EXCEED 5 FT IN HEIGHT. UPON SITE STABILIZATION, ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE TEMPORARY SEDIMENT TRAP EXCAVATED TO 1 FOOT BELOW THE TRAP. THE AREA SHALL THEN BE SCARIFIED TO PREVENT COMPACTION AND PROMOTE INFILTRATION, AND GRADED AND STABILIZED IN ACCORDANCE WITH THE GRADING AND LANDSCAPE PLANS.
16. STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION RUNOFF.
17. EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.
18. THE CONTRACTOR MUST PERFORM DEWATERING (IF REQUIRED), IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR THE COSTS ASSOCIATED WITH ANY AND ALL NECESSARY DISCHARGE PERMITS ASSOCIATED WITH SAME.
19. THE CONTRACTOR MUST LOCATE CONSTRUCTION WASTE MATERIAL STORAGE AREAS TO MINIMIZE EXPOSURE TO STORMWATER. THE CONTRACTOR MUST IMMEDIATELY PLACE CONSTRUCTION WASTE IN ON-SITE STORAGE CONTAINERS UNTIL THAT CONSTRUCTION WASTE IS READY FOR OFF-SITE DISPOSAL. THE CONTRACTOR MUST MAINTAIN SPILL PREVENTION AND RESPONSE EQUIPMENT AND MAKE SURE ANTIWASH AVAILABLE ON-SITE FOR USE BY THE CONTRACTOR'S EMPLOYEES WHO MUST BE PROPERLY TRAINED IN THE APPLICATION OF SPILL PREVENTION AND RESPONSE PROCEDURES.
20. EROSION CONTROL NOTES DURING WINTER CONSTRUCTION
21. WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
22. WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT THE AMOUNT OF AREA OPEN AT ONE TIME IS MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE AND IN CONFORMANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN SUCH THAT ADEQUATE PROVISIONS ARE EMPLOYED TO CONTROL STORMWATER RUNOFF.
23. CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL. PROTECTION LISTED IN ITEM 2 ABOVE.
24. AN AREA SHALL BE CONSIDERED TO HAVE BEEN TEMPORARILY STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDS, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.
25. FOR AREAS WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR A PERIOD EXCEEDING 14 DAYS BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH, LOAM OR SEED WILL NOT BE REQUIRED. THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED. IF THE EXPOSED AREA HAS BEEN LOAMED, FINE, GRADED AND IS SMOOTH TO THE TOUCH, IT MAY BE DORMANT SEEDING AT A RATE OF 200-300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED AS APPLICABLE. SLOPES SHALL NOT BE LEFT UNSTABILIZED OVER THE WINTER OR IN AREAS WHERE WORK HAS CEASED FOR MORE THAN 14 DAYS UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF SEDIMENT BARRIERS OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
26. MULCHING REQUIREMENTS:
- 26.1. BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR WOOD CELLULOSE FIBER.
- 26.2. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPE EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
- 26.3. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
27. ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE STORMWATER PREVENTION PLAN.
28. DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.

3. THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE ITS FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
2. EROSION CONTROL MEASURES MUST CONFORM TO THE STATE, LOCAL, AND FEDERAL GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL UNLESS OTHERWISE NOTED, OR UNLESS THE PROFESSIONAL OF RECORD CLEARLY AND SPECIFICALLY, IN WRITING, DICTATES OTHERWISE. INSTALLATION OF EROSION CONTROL, EROSION CONTROL, EROSION CONTROL, AND EROSION CONTROL MUST BE EXACTLY AS INDICATED IN THE EROSION CONTROL DOCUMENT NOTES.
3. THE DISTURBED LAND AREA OF THIS SITE IS APPROXIMATELY 1.84 ACRES.
4. THE FOLLOWING EROSION CONTROL MEASURES ARE PROPOSED FOR THIS SITE:
  - A. STABILIZED CONSTRUCTION ENTRANCE/ EXIT - A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT IS TO BE INSTALLED AT THE DESIGNATED LOCATION SHOWN ON THE PLAN. THE SITE FENCE MUST BE DESIGNED TO NOT RUNGUT WATER WILL BE RETAINED ON SITE.
  - B. SEDIMENT FENCE - INSTALL SILT FENCE AND/OR SILT SOCK AROUND ALL OF THE DOWNSLOPE PERIMETERS OF THE SITE, TEMPORARY FILL AND SOIL STOCKPILES.
  - C. INSTALL FILTER FABRIC DROP INLET PROTECTION AROUND EACH DRAINAGE INLET AS DRAINAGE STRUCTURES ARE INSTALLED TO REDUCE THE QUANTITY OF SEDIMENT. INSTALL TEMPORARY INLET PROTECTION ON INLETS DOWNSLOPE FROM DISTURBANCE, WHICH MAY BE BEYOND THE LIMITS OF DISTURBED AREA.
  5. INSTALLATION OF EROSION CONTROL DEVICES MUST BE IN ACCORDANCE WITH ALL OF THE MANUFACTURER'S RECOMMENDATIONS.
  6. THE CONTRACTOR MUST INSPECT EROSION CONTROL MEASURES WEEKLY. THE CONTRACTOR MUST REMOVE ANY SILT DEPOSITS GREATER THAN 6 INCHES OR MORE OF THE EROSION CONTROL DEVICES. WATER'S HEIGHT COLLECTED ON THE FILTER FABRIC AND/OR SILT SOCK BARRIERS AND EXCAVATE AND REMOVE ANY FRUITFUL PROTECT PROTECT PROTECT.
  7. THE CONTRACTOR MUST APPLY TEMPORARY SEED AND MULCH TO ALL DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINISHED GRADE AND VEGETATED WITHIN 7 DAYS. WHEN AREAS ARE DISTURBED AFTER THE GROWING SEASON, THE CONTRACTOR MUST STABILIZE SAME WITH GEOTEXTILE FABRIC AND MAINTAIN SAME WITH MULCH AND SEED THROUGHOUT THE GROWING SEASON.
  8. THE CONTRACTOR MUST INSTALL ADDITIONAL EROSION CONTROL MEASURES IF THE PROFESSIONAL OF RECORD SO REQUIRES, TO PREVENT ANY, INCLUDING THE INCIDENTAL, DISCHARGE OF SILT-LADEN RUNOFF FROM EXISTING THE SITE.
  9. THE CONTRACTOR MUST BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION CONTROL MEASURES ON THE SITE UNTIL PERMANENT PAVING AND TURF/LANDSCAPING IS ESTABLISHED. THE COSTS OF INSTALLING AND MAINTAINING THE EROSION CONTROL MEASURES MUST BE INCLUDED IN THE BID PRICE FOR THE SITE WORK AND THE CONTRACTOR IS RESPONSIBLE FOR ALL SUCH COSTS.
  10. THE CONTRACTOR MUST CONTINUE TO MAINTAIN ALL EROSION CONTROL MEASURES UNTIL THE COMPLETION OF CONSTRUCTION AND THE ESTABLISHMENT OF VEGETATION.
  11. THE CONTRACTOR MUST REMOVE EROSION CONTROL MEASURES, SILT AND DEBRIS AFTER ESTABLISHING PERMANENT VEGETATION COVER OR OTHER INSTALLING A DIFFERENT, SPECIFIED METHOD OF STABILIZATION.
  12. THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL, FACILITIES, MEASURES AND STRUCTURES. ADDITIONAL FACILITIES, MEASURES AND STRUCTURES MUST BE INSTALLED WHERE NECESSARY TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AND TO PREVENT ANY, INCLUDING THE INCIDENTAL, DISCHARGE OF SILT-LADEN RUNOFF FROM EXISTING THE SITE.
  13. THE CONTRACTOR MUST PROTECT ALL EXISTING TREES AND SHRUBS. THE CONTRACTOR MUST REFER TO THE LANDSCAPE AND/OR DEMOLITION PLANS FOR TREE PROTECTION, FENCE LOCATIONS AND DETAILS.
  14. THE CONTRACTOR MUST REFER TO GRADING PLANS FOR ADDITIONAL INFORMATION.
  15. THE CONTRACTOR MUST CLEAN EXISTING AND PROPOSED DRAINAGE STRUCTURES AND INTERCONNECTING PIPES ON OR OFF-SITE AS THE JURISDICTIONAL AGENCY REQUIRES, BOTH AT THE TIME OF SITE STABILIZATION AND AT END OF PROJECT.
  16. SOIL EROSION CONTROL MEASURES MUST BE ADJUSTED OR RELOCATED BY THE CONTRACTOR AS IDENTIFIED DURING SITE OBSERVATION IN ORDER TO MAINTAIN COMPLETE EROSION CONTROL.
  17. THE CONTRACTOR MUST IDENTIFY, ON THE PLAN, THE LOCATION OF WASTE CONTAINERS, FUEL STORAGE TANKS, CONCRETE WASHOUT AREAS AND ANY OTHER LOCATIONS WHERE HAZARDOUS MATERIALS ARE STORED.

**SECTION A-A**

STAPLES  
2 PER BAILE

10 MIL PLASTIC LINING

NATIVE MATERIAL (OPTIONAL)

WOOD OR METAL STAKES (2 PER BAILE)

BINDING WIRE

STRAW BAILE (SEE NOTE 6)

**SECTION A-A**

PLYWOOD 48" X 24" PAINTED WHITE

BLACK LETTERS

0.5" LAS SCREWS

WOOD POST 3" X 3" X 8'

**SECTION A-A**

1/8" DIA. STEEL WIRE

**STAPLE DETAIL**

2"

**CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)**

**NOTES:**

1. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 50 FT. FROM STORM DRAIN INLETS.
2. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP, REMOVED, AND DISPOSED OF OFF-SITE. CONTRACTOR TO DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
4. PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
5. WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
6. STRAW BAILE AND STAPLES MAY BE SUBSTITUTED WITH ALTERNATE SECURING MEASURES SUCH AS CONCRETE BLOCK.

**PLAN**

10' (MIN.)

STAKE (TYP.)

10 MIL PLASTIC LINING

STRAW BAILE (TYP.)

**PLAN**

- INSTALLATION OF STABILIZED CONSTRUCTION ENTRANCE/EXIT (AS SHOWN)
- INSTALLATION OF EROSION CONTROL BARRIER (STRAW BALES AND SILT FENCE) (AS SHOWN)
- INSTALLATION OF INLET PROTECTION IN STREET (AS SHOWN)
- DEMOLITION OF EXISTING SITE STRUCTURES (SEE DEMOLITION PLAN)
- DEMOLITION OF EXISTING SITE PAVEMENT AND AMENITIES (SEE DEMOLITION PLAN)
- CLEARING AND GRUBBING
- INSTALLATION OF TEMPORARY SWALES AND SEDIMENT BASINS
- EARTHWORK AND EXCAVATION/FILLING AS NECESSARY
- CONSTRUCTION OF UTILITIES
- STABILIZE PERMANENT LAWN AREAS AND SLOPES WITH TEMPORARY SEEDING
- INSTALLATION OF INLET PROTECTION OF ON-SITE UTILITIES (AS SHOWN)
- CONSTRUCTION OF GAS CANOPY
- CONSTRUCTION OF ALL CURBING AND LANDSCAPE ISLANDS AS INDICATED ON THE PLANS
- SPREAD TOPSOIL ON SLOPED AREAS AND SEED AND MULCH
- FINAL GRADING OF ALL SLOPED AREAS
- PLACE 6" TOPSOIL ON SLOPES AFTER FINAL GRADING COMPLETED. FERTILIZE, SEED, AND MULCH MIXTURE TO BE INSTALLED AS REQUIRED.
- REMOVAL OF THE TEMPORARY SEDIMENT BASINS
- PAVE PARKING LOT
- LANDSCAPING
- REMOVE EROSION CONTROLS AS DISTURBED AREAS BECOME STABILIZED TO 70% STABILIZATION

The drawing consists of two parts: a **PROFILE** view at the top and a **PLAN VIEW** at the bottom.

**PROFILE View:** Shows a cross-section of the roadbed. The top layer is labeled "2-1/2\" CLEAN STONE". Below it is a hatched area representing the "EXISTING GROUND". A vertical dimension line indicates a "MIN" thickness for the stone layer. To the right, a vertical line marks the "PUBLIC R.O.W." (Right of Way).

**PLAN View:** Shows a top-down view of the stone area. The stone is represented by circles. The area is bounded by a dashed line for "EXISTING GROUND" and a solid line for the "PUBLIC RIGHT OF WAY". The stone area is divided into sections, with "25R" indicating a specific radius or distance. A note points to the stone area: "PROVIDE APPROPRIATE TRANSITION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND PUBLIC R.O.W.".

**SEE CHART 1** is written above the profile view and below the plan view, indicating that the stone stabilization details are defined in Chart 1.

PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COARSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT	100 FT
2% TO 5%	100 FT	200 FT
>5%	ENTIRE ENTRANCE STABILIZED WITH FABC BASE COURSE (1)	

(1) AS PRESCRIBED BY LOCAL ORDINANCE OR OTHER GOVERNING AUTHORITY.

**CHART 1**

N.T.S.

**ISOMETRIC VIEW**

INLET GRATE  
 LOOPS SIZED FOR 1" REBAR LIFT FLAG BAG  
 FROM INLET USING REBAR FOR HANDLES OVERFLOW HOLES  
 GEOTEXTILE BAG  
 1/4" BRIGHTLY COLORED NYLON ROPE EXPANSION RESTRAINT  
 LOOPS SIZED FOR 1" REBAR USE REBAR FOR HANDLE TO EMPTY FILTER SACK AT A DIMENTION LOCATION

DEPTH "D"  
 WIDTH "W"  
 LENGTH "L"

**SECTION VIEW**

FINISHED GRADE  
 SECURE LIFTING LOOPS TO OR UNDER SURFACE  
 2"x2"x1/4" RUBBER BLOCK (TYP)  
 1/4" BRIGHTLY COLORED NYLON ROPE EXPANSION RESTRAINT

1. REMOVE TRAPPED SEDIMENT WHEN BRIGHTLY COLORED EXPANSION RESTRAINT CAN NO LONGER BE SEEN
2. GEOTEXTILE SHALL BE A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS REQUIREMENTS IN THE SPECIFICATIONS TABLE.
3. PLACE AN ALO ADSORBENT PAD OR PILLOW OVER INLET GRATE WHEN OIL SPILLS ARE A CONCERN.
4. INSPECT PER REGULATORY REQUIREMENTS.
5. THE WIDTH, "W", OF THE FILTER SACK SHALL MATCH THE INSIDE WIDTH OF THE GRATED INLET BOX.
6. THE DEPTH, "D", OF THE FILTER SACK SHALL BE BETWEEN 18 INCHES AND 36 INCHES.
7. THE LENGTH, "L", OF THE FILTER SACK SHALL MATCH THE INSIDE LENGTH OF THE GRATED INLET BOX.

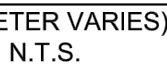
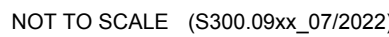
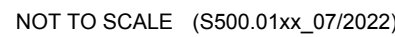
LOW TO MODERATE FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	180 LBS
UV RESISTANCE	ASTM D-4355	80%
APPARENT OPENING SIZE	ASTM D-4161	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC <sup>-1</sup>

MODERATE TO HIGH FLOW GEOTEXTILE FABRIC SPECIFICATION TABLE		
PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4161	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC <sup>-1</sup>

NOTE:  
 DO NOT USE IN PAVED AREAS WHERE PONDING MAY CAUSE TRAFFIC HAZARDS.







## SITE SPECIFIC DATA REQUIREMENTS

**GENERAL NOTES:**

1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH \* ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LOCAL REPRESENTATIVE. [www.contechES.com](http://www.contechES.com)
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HD6 AND CASTINGS SHALL MEET HD6 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PICK HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

**INSTALLATION NOTES**

- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
- D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPS. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
- E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IF IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

**CONTECH<sup>®</sup>**  
ENGINEERED SOLUTIONS LLC  
www.contechES.com  
Centre Pointe Dr., Suite 400, West Chester, OH 45069  
338-1122    513-845-7000    513-845-7993 FAX

CDS2025-5-C  
 INLINE CDS  
 STANDARD DETAIL

**CONTECH CDS 2025-5-C**

N.T.S

N.T.S.

N.T.S.

## REVISIONS

[illegible]

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REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION  
DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.:	MAA230138.00
DRAWN BY:	AEH/CPB
CHECKED BY:	DEG
DATE:	07/26/2023
CAD I.D.:	MAA230138.00-SPPD-0A

PROJECT:

## PROPOSED SITE PLAN DOCUMENTS

**- FOR**



Global Partners LP

## PROPOSED FUELING STATION IMPROVEMENTS

MAP: 5 BLOCK: 18  
27 WORCESTER PROVIDENCE  
TURNPIKE,  
TOWN OF SUTTON,  
WORCESTER COUNTY,  
MASSACHUSETTS

**BOHLER //**

**352 TURNPIKE ROAD**  
**SOUTHBOROUGH, MA 01772**  
Phone: (508) 480-9900

***www.BohlerEngineering.com***



**SHEET TITLE:**

**DETAIL  
SHEET**

SHEET NUMBER:

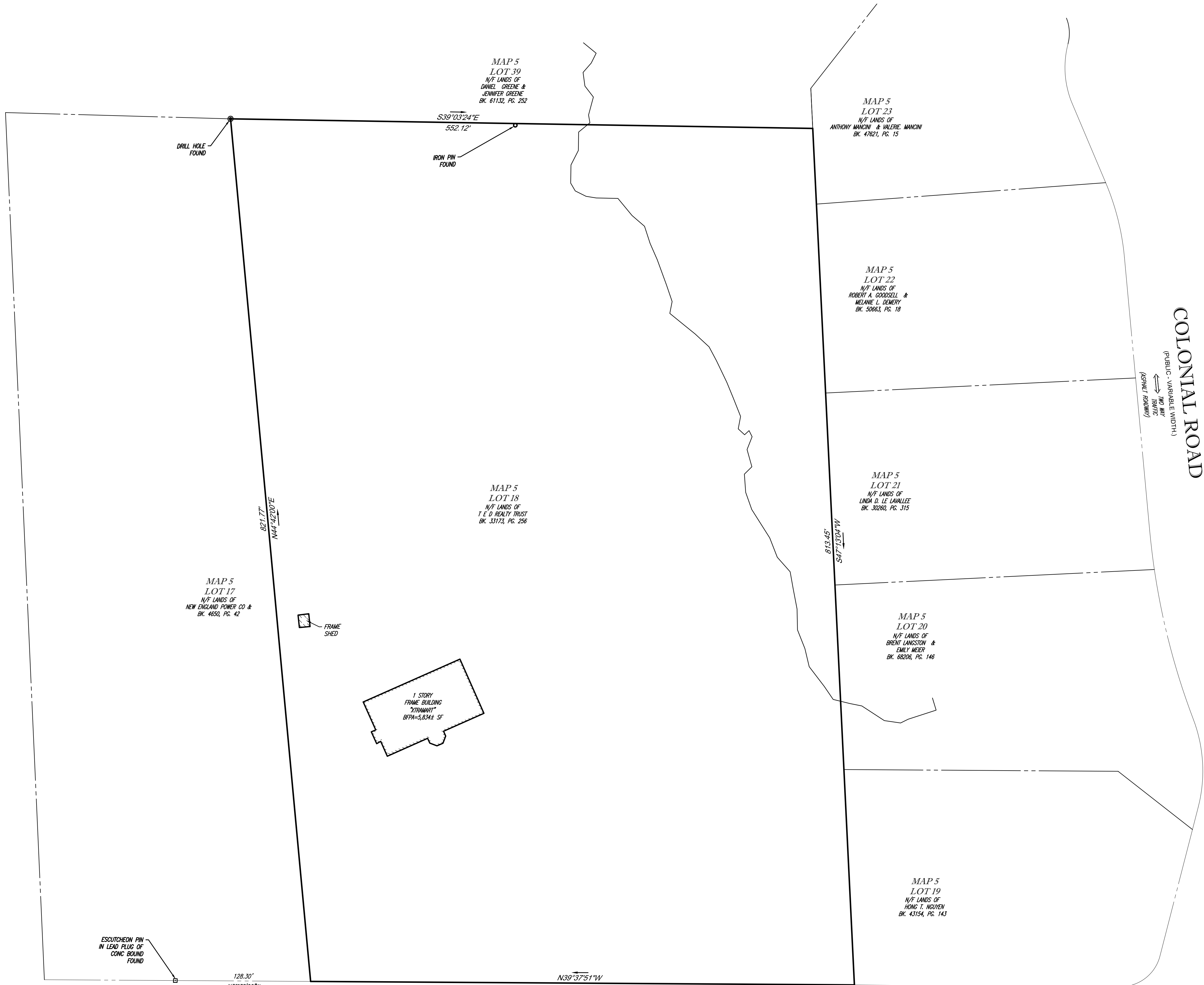
# C-902

ORG. DATE - 07/26/2023

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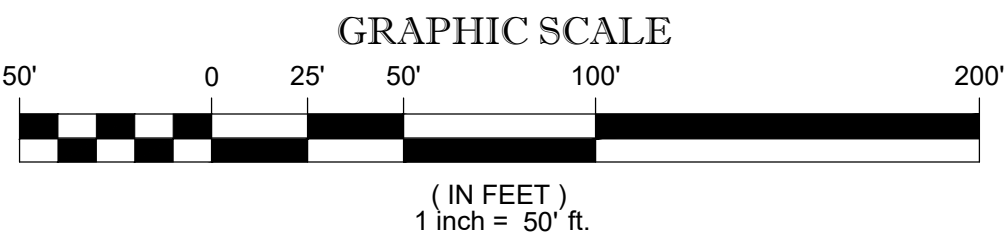


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## WORCESTER PROVIDENCE TURNPIKE

(A.K.A. ROUTE 146)  
(PUBLIC - VARIABLE WIDTH.)  
↔ TWO WAY TRAFFIC  
(ASPHALT ROADWAY)



THIS SURVEY HAS BEEN PERFORMED IN THE FIELD UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE, BELIEF, AND INFORMATION, THIS SURVEY HAS BEEN PERFORMED IN ACCORDANCE WITH CURRENTLY ACCEPTED ACCURACY STANDARDS.

NOT A VALID ORIGINAL DOCUMENT UNLESS EMBOSSED WITH RAISED IMPRESSION OR STAMPED WITH A BLUE INK SEAL.



GERY L. HOLDRIGHT, PLS  
MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #49211

5-25-2023  
DATE

FIELD DATE  
5-9-2023  
FIELD BOOK NO.  
23-06  
FIELD BOOK PG.  
35 & 39  
FIELD CREW  
J.D.O.  
DRAWN:  
J.P.M.  
REVIEWED:  
R.J.K.

BOUNDARY, TOPOGRAPHIC & UTILITY SURVEY  
GLOBAL MONTELLO GROUP CORP  
27 WORCESTER PROVIDENCE TURNPIKE  
LOT 18, MAP 5  
TOWN OF SUTTON, WORCESTER COUNTY  
COMMONWEALTH OF MASSACHUSETTS

**CONTROL POINT ASSOCIATES, INC.**  
352 TURNPIKE ROAD  
SOUTH BOKROUGH, MA 01772  
508.948.3000 - 508.948.3003 FAX  
ALBANY, NY 518-217-5010  
CHALFONT, PA 215-712-9800  
HAUPPAUGE, NY 631-880-2645  
MANHATTAN, NY 646-780-0411  
MT LAUREL, NJ 609-857-2999  
WARREN, NJ 908-668-0999

APPROVED:  
G.L.H.  
DATE  
5-25-2023  
SCALE  
1"=50'  
FILE NO.  
03-230207-00  
DWS. NO.  
1 OF 3

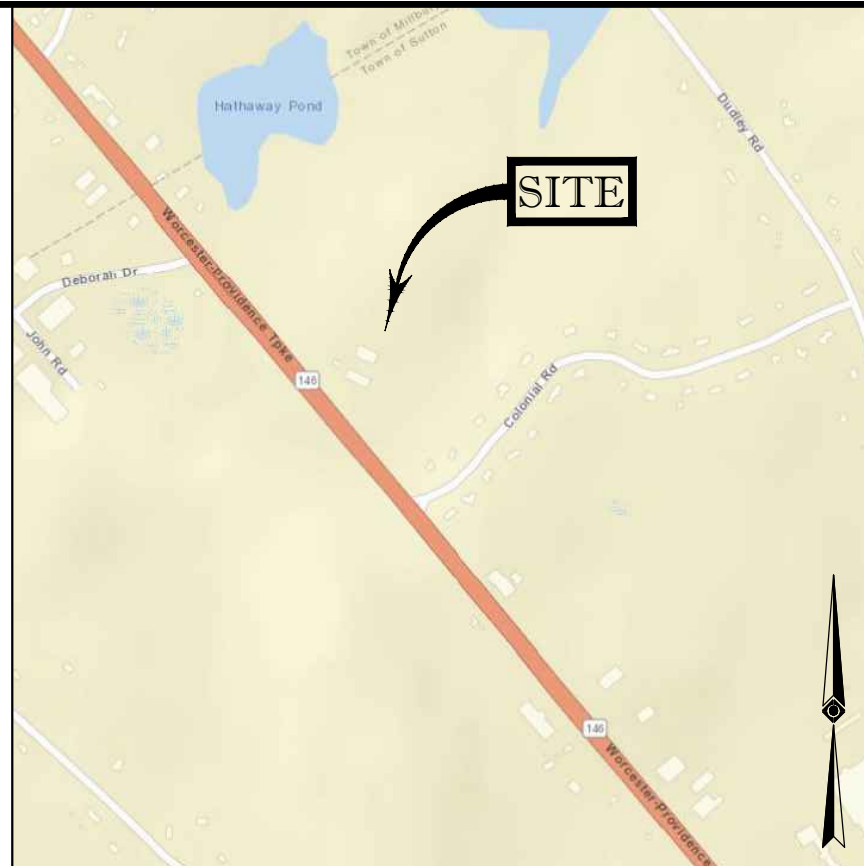
### NOTES:

- PROPERTY KNOWN AS LOT 18 AS SHOWN ON THE TOWN OF SUTTON, WORCESTER COUNTY, COMMONWEALTH OF MASSACHUSETTS, MAP NO. 5.
- AREA = 434,914 SQUARE FEET OR 9.984 ACRES.
- LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. LOCATIONS AND SIZES ARE BASED ON UTILITY MARK-OUTS, ABOVE GROUND STRUCTURES THAT WERE VISIBLE & ACCESSIBLE IN THE FIELD, AND THE MAPS AS LISTED IN THE REFERENCES AVAILABLE AT THE TIME OF THE SURVEY. AVAILABLE AS-BUILT PLANS AND UTILITY MARKOUT DOES NOT ENSURE MAPPING OF ALL UNDERGROUND UTILITIES AND STRUCTURES. BEFORE ANY EXCAVATION IS TO BEGIN, ALL UNDERGROUND UTILITIES SHOULD BE VERIFIED AS TO THEIR LOCATION, SIZE AND TYPE BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED.
- THE SOURCE OF UNDERGROUND UTILITIES ARE SHOWN UTILIZING A QUALITY LEVEL SYSTEM:  
QUALITY LEVEL D - UTILITIES SHOWN BASED UPON REFERENCE MAPPING OR ORAL HISTORY. NOT FIELD VERIFIED.  
QUALITY LEVEL C - LOCATION OF UTILITY SURFACE FEATURES SUPPLEMENTS REFERENCE MAPPING. INCLUDES MARKOUT BY OTHERS.  
QUALITY LEVEL B - UTILITY LOCATION DATA IS COLLECTED THROUGH GEOPHYSICAL SENSING TECHNOLOGY TO SUPPLEMENT SURFACE FEATURES AND OR REFERENCE MAPPING. INCLUDES MARKOUT BY CONTROL POINT ASSOCIATES, INC.  
QUALITY LEVEL A - HORIZONTAL AND VERTICAL LOCATION OF UTILITIES ARE OBTAINED USING VACUUM EQUIPMENT EXCAVATION OR OTHER METHODS TO EXPOSE THE UTILITY. LOCATION SHOWN AT SINGLE POINT WHERE EXCAVATION OCCURRED UNLESS UTILITY WAS LOCATED PRIOR TO FILLING.  
ALL FOUR TYPES MAY NOT BE PRESENT ON THIS SURVEY.
- THIS PLAN IS BASED ON INFORMATION PROVIDED BY CLIENT. A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC., AND OTHER REFERENCE MATERIAL AS LISTED HEREON.
- THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN. IT IS STRONGLY RECOMMENDED THAT A COMPLETE TITLE SEARCH BE PROVIDED TO THE SURVEYOR FOR REVIEW PRIOR TO THE PLACEMENT OF OR ALTERATION TO IMPROVEMENTS ON THE PROPERTY.
- BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE "X-UNSHADED", (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) PER REF. #2.
- THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN AT THE TIME OF THE FIELD SURVEY.
- ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88), BASED ON GPS OBSERVATIONS UTILIZING THE KEYSTONE VRS NETWORK (KEYNETGPS).  
TEMPORARY BENCH MARKS SET:  
TBM-A: MAG NAIL SET IN ASPHALT PAVEMENT, ELEVATION= 540.70'  
TBM-B: MAG NAIL SET IN ASPHALT PAVEMENT, ELEVATION= 547.05'  
PRIOR TO CONSTRUCTION IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE BENCHMARKS ILLUSTRATED ON THIS SKETCH HAVE NOT BEEN DISTURBED AND THEIR ELEVATIONS HAVE BEEN CONFIRMED. ANY CONFLICTS MUST BE REPORTED PRIOR TO CONSTRUCTION.
- THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.
- PER CONTRACTUAL AGREEMENT THE LOCATIONS OF SITE FEATURES AND TOPOGRAPHIC INFORMATION IS SHOWN FOR A PORTION OF THE SUBJECT PROPERTY ONLY.
- THE DELINEATION LINE WAS PLACED IN THE FIELD BY GODDARD CONSULTING, LLC ON APRIL 28, 2023, AND FIELD LOCATED BY CONTROL POINT ASSOCIATES, INC. ON MAY 9, 2023.

### REFERENCES:

- THE TAX ASSESSOR'S MAP OF TOWN OF SUTTON, WORCESTER COUNTY, MAP 5.
- MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP, WORCESTER COUNTY, MASSACHUSETTS (ALL JURISDICTIONS), PANEL 817 OF 1075," MAP NUMBER 28027C0817E, MAP EFFECTIVE DATE: JULY 4, 2011.
- MAP ENTITLED "PLAN OF LAND IN SUTTON, MASS", PREPARED BY LAVALLEC BROTHERS, INC., DATED MARCH 27, 1978, RECORDED WITH WORCESTER DISTRICT REGISTRY OF DEEDS AS PLAN BOOK 448, PLAN 71.
- MAP ENTITLED "AS BUILT XTRAMART CONVENIENCE STORE, PREPARED FOR DRAKE PETROLEUM INC., ROUTE #146, #27 WORCESTER-PROVIDENCE TURNPIKE, SUTTON, MA," PREPARED BY CME ASSOCIATES, INC., DATED JULY 16, 2007. SHEET C-1.
- MAP ENTITLED "PLAN SHOWING LAND IN SUTTON, MASSACHUSETTS, TO BE CONVEYED TO NEW ENGLAND POWER COMPANY BY IDA HAFSTROM", PREPARED BY NEW ENGLAND POWER COMPANY, DATED DECEMBER 9, 1965.
- MAP ENTITLED "SECTION 'D', JONATHAN DUDLEY HILL, SUTTON, MASSACHUSETTS", PREPARED BY ROBINSON & FOX, INC., DATED MAY 1967, RECORDED WITH WORCESTER DISTRICT REGISTRY OF DEEDS AS PLAN BOOK 310, PLAN 11, SHEET 1 OF 1.
- MAP ENTITLED "DIVISION OF LAND OF 21 COLONIAL ROAD IN SUTTON, MA", PREPARED BY ASE-ANDREWS SURVEY & ENGINEERING, INC., DATED NOVEMBER 15, 2017, LAST REVISED MARCH 7, 2018, RECORDED WITH WORCESTER DISTRICT OF DEEDS ASS PLAN BOOK 935, PLAN 96.
- MAP ENTITLED "AS BUILT" LOCATION PLAN, PREPARED FOR DRAKE PETROLEUM COMPANY, INC., ROUTE #146 (WORCESTER-PROVIDENCE TURNPIKE), SUTTON, MA," PREPARED BY CME ASSOCIATES, INC., DATED JULY 10, 2007. LAST REVISED JULY 19, 2007. SHEET SEP-1.

SEE SHEET 2 & 3 OF 3 FOR SITE FEATURES, TOPOGRAPHY & UTILITIES

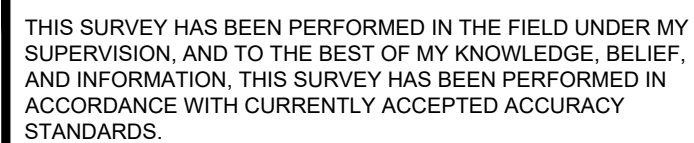


LOCUS MAP  
NOT TO SCALE



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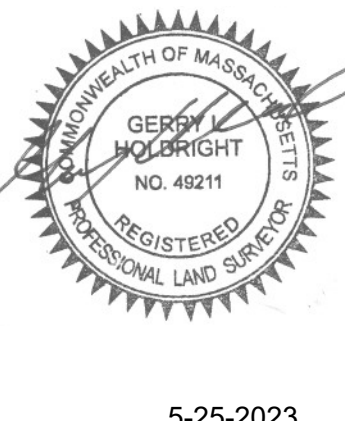
(A.K.A. ROUTE 146)  
PUBLIC - VARIABLE WIDTH.)  
⇔ TWO WAY  
TRAFFIC  
(ASPHALT ROADWAY)




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MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #49



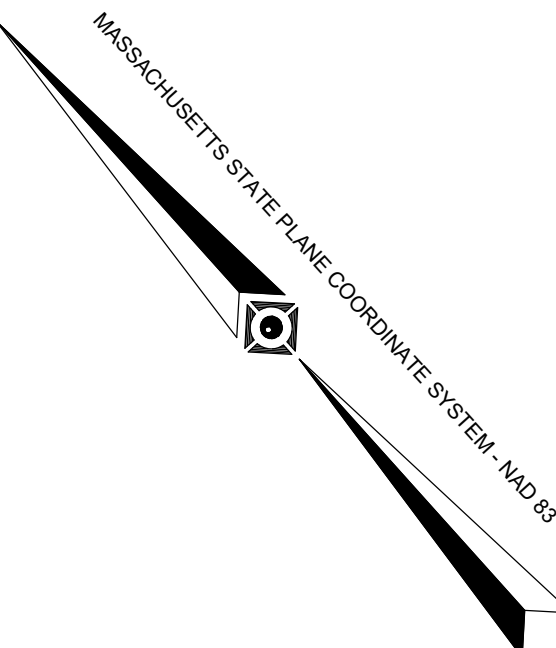
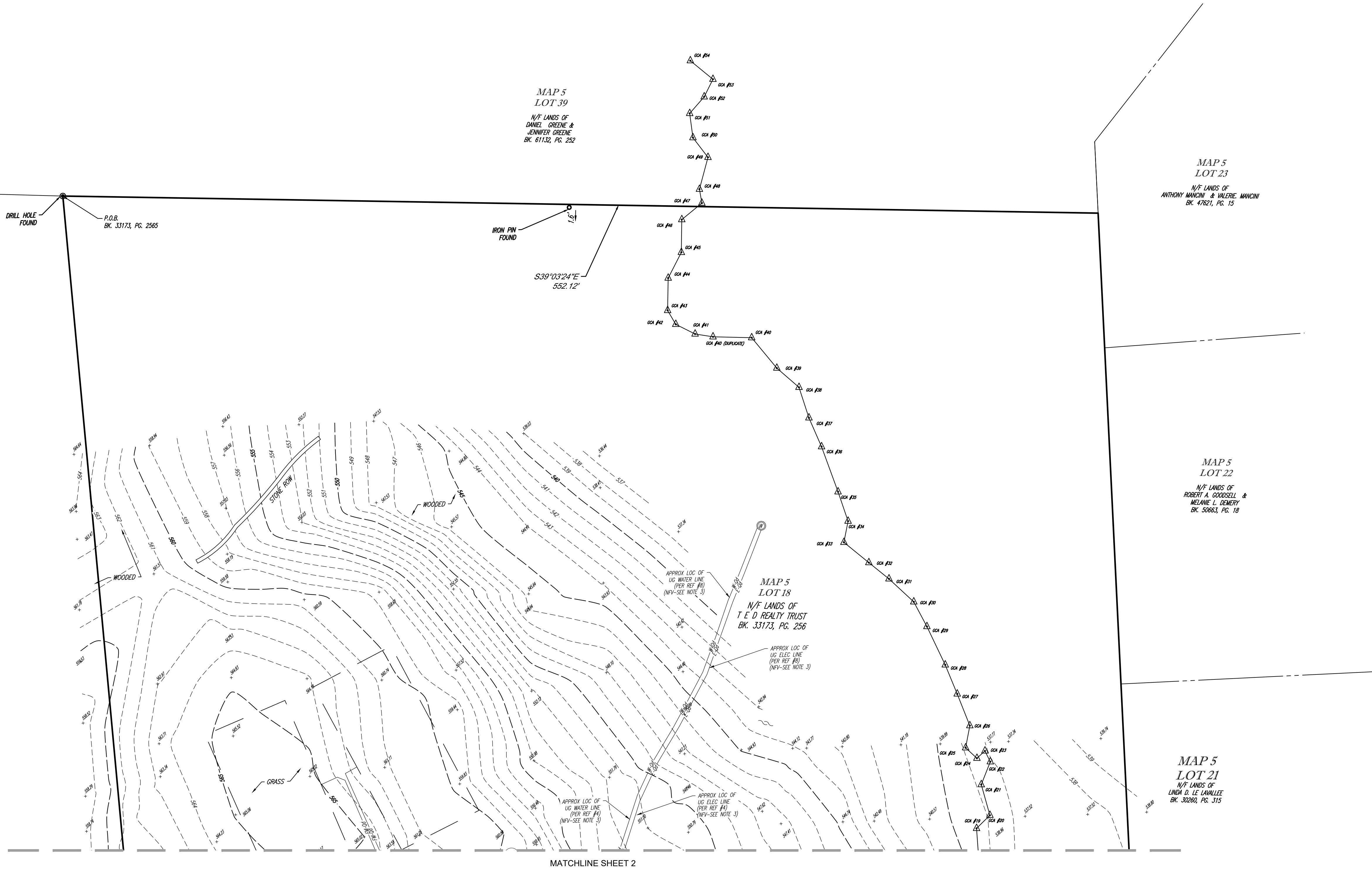
5-25-2023  
DATE

FIELD DATE 5-9-2023	BOUNDARY, TOPOGRAPHIC & UTILITY SURVEY				
FIELD BOOK NO. 23-06	GLOBAL MONTELLO GROUP CORP				
FIELD BOOK PG. 35 & 39	27 WORCESTER PROVIDENCE TURNPIKE LOT 18, MAP 5 TOWN OF SUTTON, WORCESTER COUNTY COMMONWEALTH OF MASSACHUSETTS				
FIELD CREW J.D.O.	 <b>CONTROL POINT ASSOCIATES, INC.</b>		ALBANY, NY 518-217-5010		
DRAWN: J.P.M.			CHALFONTE, PA 215-127-8800		
			HAUPPAUGE, NY 631-880-2545 MANHATTAN, NY 646-780-0411 MT LAUREL, NJ 609-857-2399 WARREN, NJ 609-688-0509		
REVIEWED: R.J.K.	APPROVED: G.L.H.	DATE 5-25-2023	SCALE 1"=30'	FILE NO. 03-230207-00	DWG. NO. 2 OF 3

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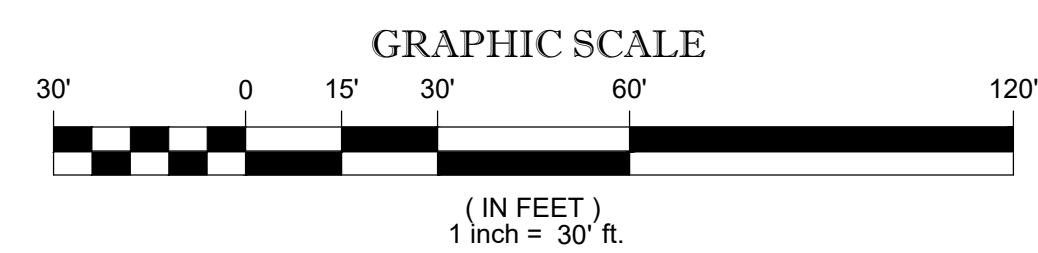


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LEGEND	
---	EXISTING CONTOUR
125	EXISTING SPOT ELEVATION
x 123.45	EXIST. TOP OF CURB ELEVATION
x TC 123.45	EXIST. BOTTOM OF CURB ELEVATION
x BC 123.45	EXIST. FINISHED FLOOR ELEVATION
x FF 123.45	EXIST. DOOR SILL ELEVATION
x DS 123.45	EXIST. DOOR SILL ELEVATION
OH	OVERHEAD WIRES
E	APPROX. LOC. UNDERGROUND ELECTRIC LINE
W	APPROX. LOC. UNDERGROUND WATER LINE
FM-04	APPROX. LOC. UNDERGROUND FORCE MAIN LINE
-04	SUBSURFACE UTILITY QUALITY LEVEL D
UP	UTILITY POLE
L	LAMP
S	SIGN
B	BOLLARD
M	MAIL BOX
A	AIR STATION
DM	DRAINAGE/STORM MANHOLE
SM	SANITARY/SEWER MANHOLE
UM	UNKNOWN MANHOLE
CB	CATCH BASIN OR INLET
PS	PARKING SPACE COUNT
DC	DEPRESSED CURB
RD	ROOF DRAIN
CP	CONDUIT PIPE
CLF	CHAIN LINK FENCE
DC	DEPRESSED CURB
EDC	EDGE OF CONCRETE
EOP	EDGE OF PAVEMENT
(TYP)	TYPICAL
UTO	UNABLE TO OPEN
LSA	LANDSCAPED AREA
DF	DELINEATION FLAG
PA	PAINTED ARROWS
PH	PAINTED HANDICAPPED
CLF	CHAIN LINK FENCE
LO	OFFSET OF STRUCTURE AT GROUND LEVEL RELATIVE TO PROPERTY LINE
SWL	SOLID WHITE LINE
HT	HEIGHT
BFFA	BUILDING FOOTPRINT AREA
BLDG	BUILDING
GRT	GRATE ELEVATION
U	UNKNOWN TERMINUS
LSA	LANDSCAPED AREA
MC	METAL COVER
SWL	SOLID WHITE LINE
NVP	NO VISIBLE PIPE
INV	INVERT ELEVATION
NVP	NO VISIBLE PIPE
F20	FILLED W/DEBRIS
CI	CAST IRON PIPE
CPP	CORRUGATED PLASTIC PIPE
INV	INVERT ELEVATION
GRT	GRATE ELEVATION
FDS	FULL OF SEDIMENT

SEE SHEET 1 OF 3 FOR BOUNDARY



THIS SURVEY HAS BEEN PERFORMED IN THE FIELD UNDER MY SUPERVISION, AND TO THE BEST OF MY KNOWLEDGE, BELIEF, AND INFORMATION, THIS SURVEY HAS BEEN PERFORMED IN ACCORDANCE WITH CURRENTLY ACCEPTED ACCURACY STANDARDS.

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GERRY L. HOLDRIGHT, PLS  
MASSACHUSETTS PROFESSIONAL LAND SURVEYOR #49211



FIELD DATE 5-9-2023	BOUNDARY, TOPOGRAPHIC & UTILITY SURVEY				
FIELD BOOK NO. 23-06	BOHLER ENGINEERING MA, LLC				
FIELD BOOK PG. 35 & 39	27 WORCESTER PROVIDENCE TURNPIKE LOT 18, MAP 5 TOWN OF SUTTON, WORCESTER COUNTY COMMONWEALTH OF MASSACHUSETTS				
FIELD CREW J.D.O.	CONTROL POINT ASSOCIATES, INC.				
DRAWN: J.P.M.	352 TURNPIKE ROAD SOUTH BOKROUGH, MA 01772 508.948.3000 - 508.948.3003 FAX				
REVIEWED: R.J.K.	APPROVED: G.L.H.	DATE 5-25-2023	SCALE 1"=30'	FILE NO. 03-230207-00	DWG. NO. 3 OF 3