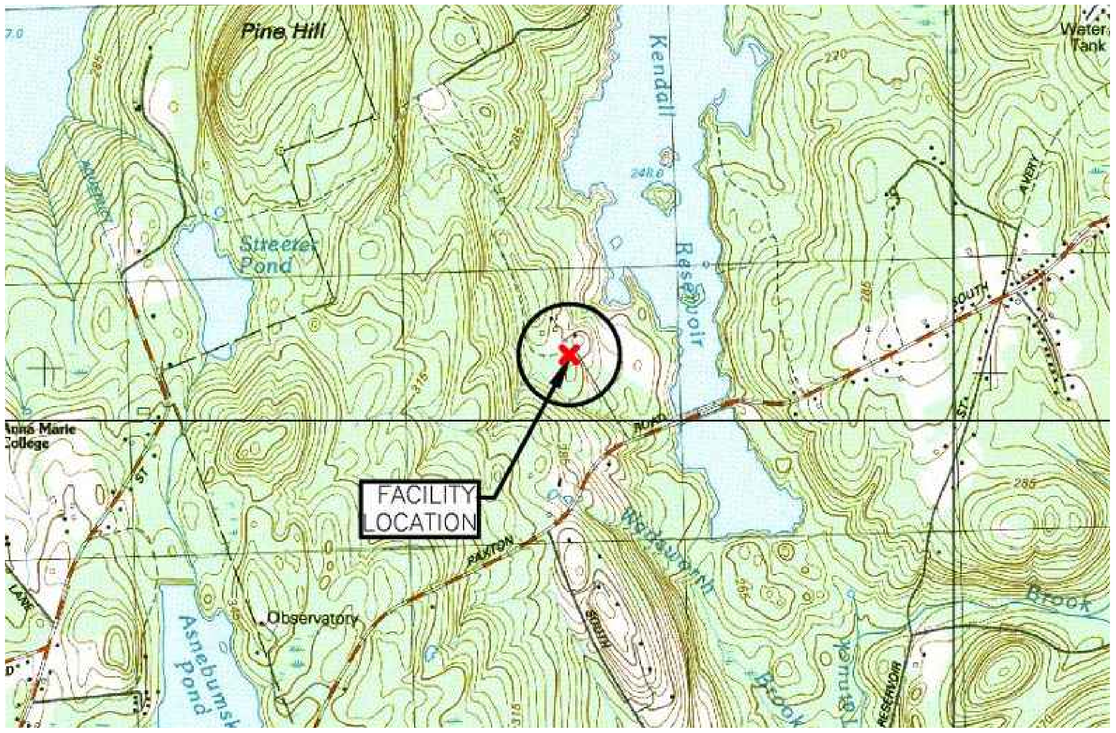
AST INSTALLATION
MOY RANCH FACILITY
WORCESTER, MA

JANUARY 2026



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COMMISSIONER DEPARTMENT
OF PUBLIC WORKS & PARKS
JOHN K. WESTERLING

PROJECT MANAGER
ENVIRONMENTAL MANAGER
JON GERVAIS

COMPREHENSIVE ENVIRONMENTAL INCORPORATED • BOLTON, MASSACHUSETTS

CONSTRUCTION NOTES

GENERAL

1. CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT LEAST 72 HOURS BEFORE EXCAVATING.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
3. WORK WITHIN THE LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION.
4. UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS.
5. TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND AS DIRECTED BY MASSDOT, OR CITY OF WORCESTER.
6. AREAS OUTSIDE THE LIMITS OF THE PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS.
8. DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.
9. CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS, AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.
10. THIS PROJECT DISTURBS LESS THAN ONE ACRE OF LAND AND DOES NOT FALL WITHIN THE NPDES CONSTRUCTION GENERAL PERMIT (CGP) PROGRAM.
11. CONTRACTOR TO VERIFY ELEVATIONS PRIOR TO START OF CONSTRUCTION. ELEVATION DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
12. DISCONNECTIONS AND APPURTENANCES FOR NATURAL GAS, ELECTRIC, TELEPHONE, CABLE TV, POTABLE WATER, FIRE SERVICE, STORMWATER SYSTEM, AND SANITARY SEWER SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF WORCESTER OR THE APPLICABLE UTILITY COMPANY. ANY FEES FOR DISCONNECTION SHALL BE BORNE BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE FOR THE OWNER.
13. ALL FIELD OR LABORATORY TESTING TO CONFIRM THAT THE CONTRACTOR'S MEETING THE RELEVANT SPECIFICATIONS SHALL BE COORDINATED AND PAID FOR BY THE CONTRACTOR, PER THE CONTRACT ALLOWANCE.
14. SITE CIVIL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND GOVERNED BY THE REQUIREMENTS OF MASSACHUSETTS DOT STANDARD SPECIFICATIONS LATEST REVISION OR CITY OF WORCESTER STANDARDS.

EROSION CONTROL

1. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES ALONG THE LIMIT OF WORK AS SHOWN ON THE PLANS.
2. CONTRACTOR SHALL INSPECT AND MAINTAIN EROSION CONTROL MEASURES, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND PLACE SEDIMENTS IN AN UPLAND AREA ON THE SITE SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
3. CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOSIT.
4. CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED TO PREVENT EROSION.

GENERAL NOTES

No.	Revision/Issue	Date

COMPREHENSIVE ENVIRONMENTAL INCORPORATED
41 Main Street
Bolton, MA 01740

NOTES

MOY RANCH FACILITY

City of Worcester, MA

Project No.: 234-15
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Drawn By: AH
Checked By: RC
Scale: AS SHOWN

Sheet
G-1

BARN
CB (NO KNOWN ATTRIBUTES)
TO KENDALL RESERVOIR
EX. SPILLWAY INV. EL=874.57'
POOL
EX. STREAM OUTLET INV. EL=874.05'
GRAVEL ROAD
GRASSED AREA
UG ELECTRIC LOCATION UNCONFIRMED
3/4" COPPER WATER
EX. PROPANE TANKS
CARPENTER SHOP
EX. WELL
TOOL ROOM
BLACK-SMITH SHOP
GARAGE
3/4" COPPER WATER
3/4" COPPER WATER
WETLAND 100' BUFFER
HOUSE
STORAGE GARAGE
APPROXIMATE EXTENT OF UST BACKFILL AREA
36" CAST IRON PIPED STREAM
EX. PROPANE TANKS
EMERGENCY PUMP SHUTOFF SWITCHES
MAINTENANCE GARAGE
OFFICES/ RESTROOMS/ CONFERENCE ROOM
STORAGE LEAN-TO
EX. EDGE OF PAVEMENT
BOILER ROOM
STORAGE GARAGE
4" CAST IRON SEWER LOCATION APPROXIMATE
SCREEN HOUSE
MOY RANCH RD
EX. ELECTRIC POLE WITH TRANSFORMER

155-1
50 & 55 MOY RANCH ROAD
CITY OF WORCESTER, DEPARTMENT OF PUBLIC WORKS
20 EAST WORCESTER ROAD
WORCESTER, MA 01604

20 0 20 40 60
SCALE: 1"=20'

GENERAL NOTES

LEGEND

GENERAL SYMBOLS

- PAVED ROADWAY
- DIRT ACCESS AREA
- WETLAND 100' BUFFER
- MAJOR CONTOUR (5')
- MINOR CONTOUR (1')
- E — UG ELECTRIC LINE
- W — WATER LINE
- S — SEWER LINE
- EXISTING STRUCTURES
- INTERIOR WALL
- EXISTING GRASSED ISLAND
- RAISED CONCRETE ISLAND
- CONCRETE BARRIER/BOLLARD
- STORAGE TANK

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COMPREHENSIVE ENVIRONMENTAL INCORPORATED
41 Main Street
Bolton, MA 01740

EXISTING CONDITIONS

MOY RANCH FACILITY

City of Worcester, MA

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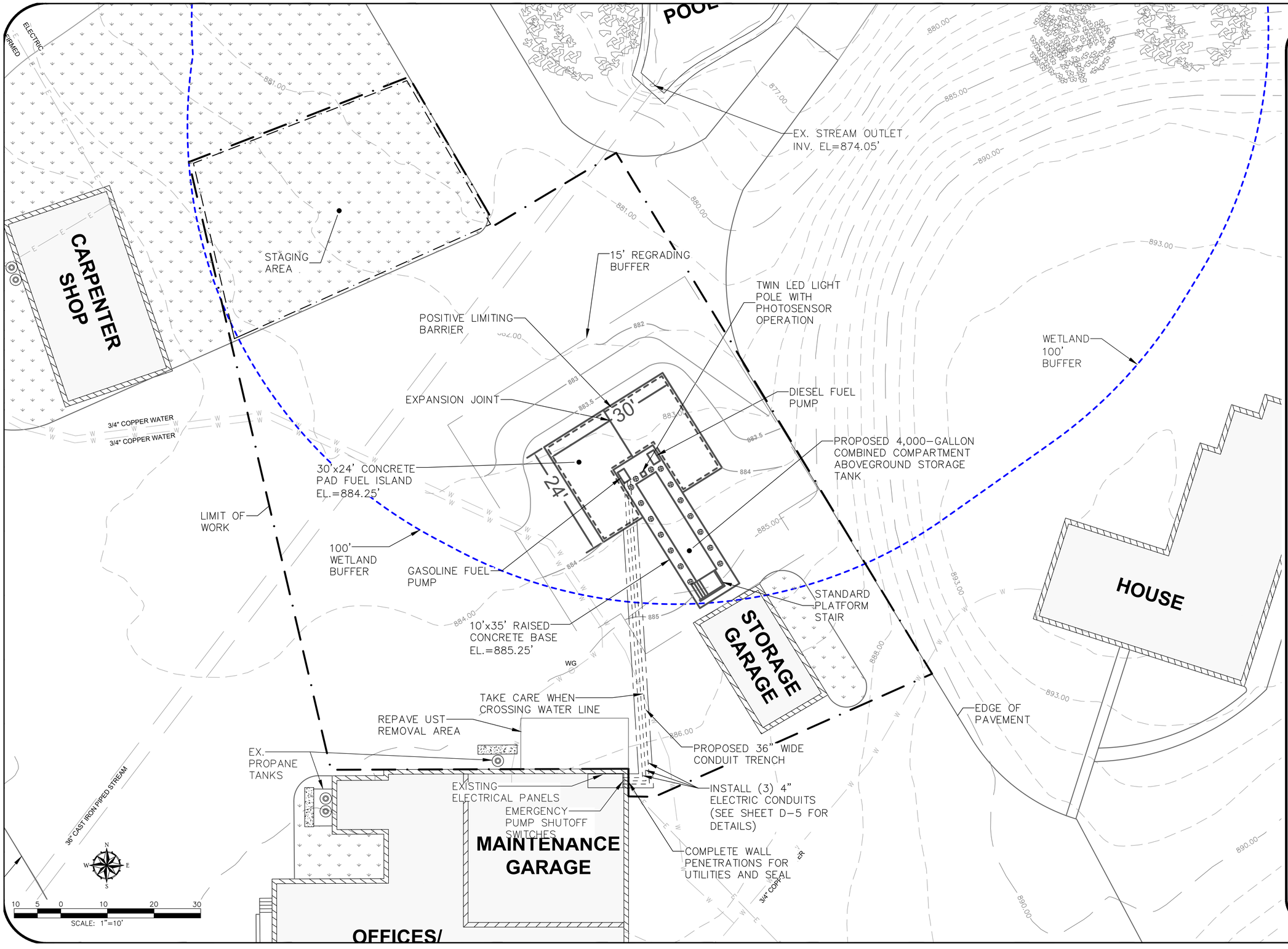

GENERAL NOTES

LEGEND

GENERAL SYMBOLS

- PAVED ROADWAY
- DIRT ACCESS AREA
- WETLAND 100' BUFFER
- LIMIT OF WORK
- STAGING AREA
- PROPOSED CONTOURS
- MAJOR CONTOUR (5')
- MINOR CONTOUR (1')
- UG ELECTRIC LINE
- WATER LINE
- SEWER LINE
- EXISTING STRUCTURES
- INTERIOR WALL
- EXISTING GRASSED ISLAND
- RAISED CONCRETE ISLAND
- CONCRETE BARRIER/BOLLARD
- STORAGE TANK

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COMPREHENSIVE ENVIRONMENTAL INCORPORATED

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PROPOSED SITE WORK

MOY RANCH FACILITY

City of Worcester, MA

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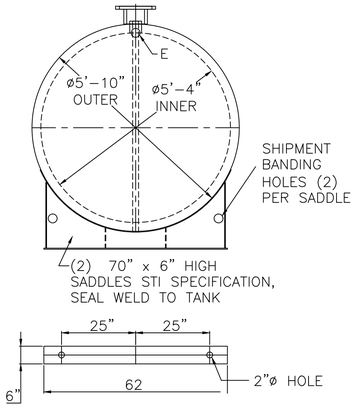
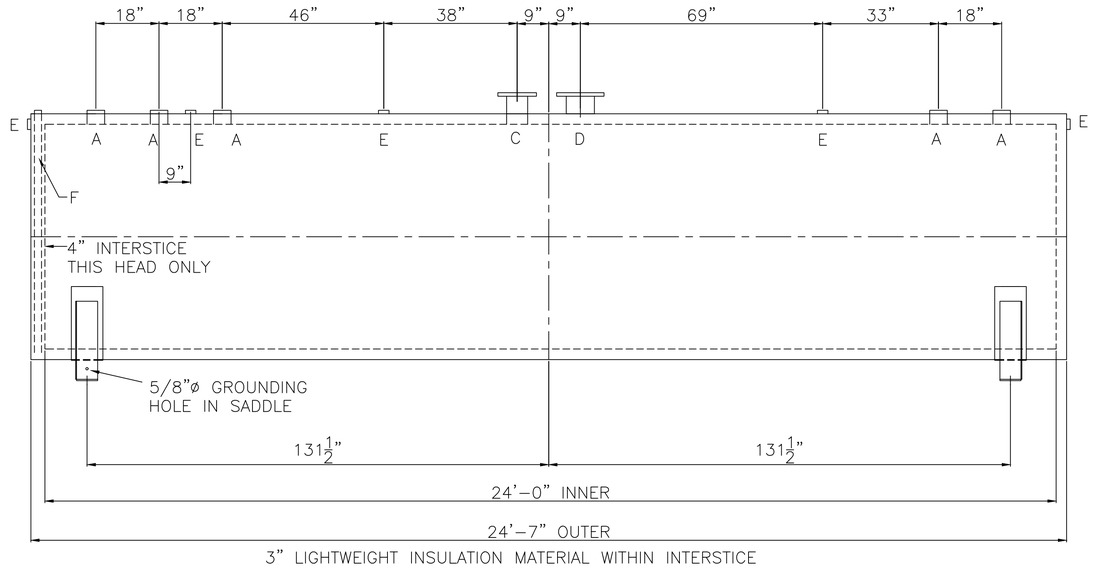
Scale: AS SHOWN	

4,000 GALLON FIREGUARD TANK

NOT TO SCALE





DESIGN DATA
CAPACITY : 4,000 GALLONS
TYPE: FIREGUARD® CYLINDRICAL
FIREGUARD® IS A TRADEMARK OF THE STEEL TANK INSTITUTE
NO. REQ. – –
OPERATING PRESSURE – ATMOSPHERIC
SPECIFIC GRAVITY = 1.0
TANK MATERIAL – MILD CARBON STEEL
THICKNESS – INNER – HEADS AND SHELL – 7 GAUGE THICKNESS – OUTER – HEADS AND SHELL – 7 GAUGE MIN. GAUGE OR THICKNESS (PER U.L. 2085)
CONSTRUCTION – INNER – LAP WELD OUTSIDE ONLY CONSTRUCTION – OUTER – LAP WELD OUTSIDE ONLY
TANK TEST – INNER – 5 PSIG OUTER – 5 PSIG
APPROX. TANK WEIGHT – 13600 – 14720 lbs
INT. FINISH – NONE
EXT. FINISH – SP–6 BLAST, FINISH PAINT WHITE
LABEL– UL 2085 AND FIREGUARD® PER STI

LEGEND	
A	4" FEMALE FIREGUARD COUPLING
B	–
C	6" FFSO 150# FLANGE – PRIMARY EMERGENCY VENT USE ONLY
D	8" FFSO 150# FLANGE THROUGH OUTER SHELL ONLY, MARK WITH SPECIAL WARNING LABEL INTERSTITIAL EMERGENCY VENT USE ONLY
E	2" FITTING THROUGH OUTER SHELL ONLY WITH CAST IRON PLUG– MFG USE ONLY
F	2" INTERSTITIAL MONITOR PIPE – MALE NPT END

NOTES:
STRIKER PLATES ARE NOT SUPPLIED ON FIREGUARDS® UNLESS SPECIFIED

GENERAL NOTES

1. THE PRIMARY STEEL TANK SHALL INCLUDE AN ATMOSPHERIC VENT AND EMERGENCY VENTING IN ACCORDANCE WITH NFPA 30 CODE REQUIREMENTS.
2. HAZARD SIGN SHALL MEET NFPA 704.
3. COMPLY WITH NFPA 30 AND NFPA 31 REQUIREMENTS FOR PREVENTION OF ACCIDENTAL IGNITION.
4. INSPECT AND TEST FUEL–OIL PIPING IN ACCORDANCE WITH NFPA 31.
5. REFER TO THE SPECIFICATIONS FOR ALL CODE REFERENCES THAT SHALL BE FOLLOWED.

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COMPREHENSIVE ENVIRONMENTAL INCORPORATED

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DETAILS I

MOY RANCH FACILITY

City of Worcester, MA

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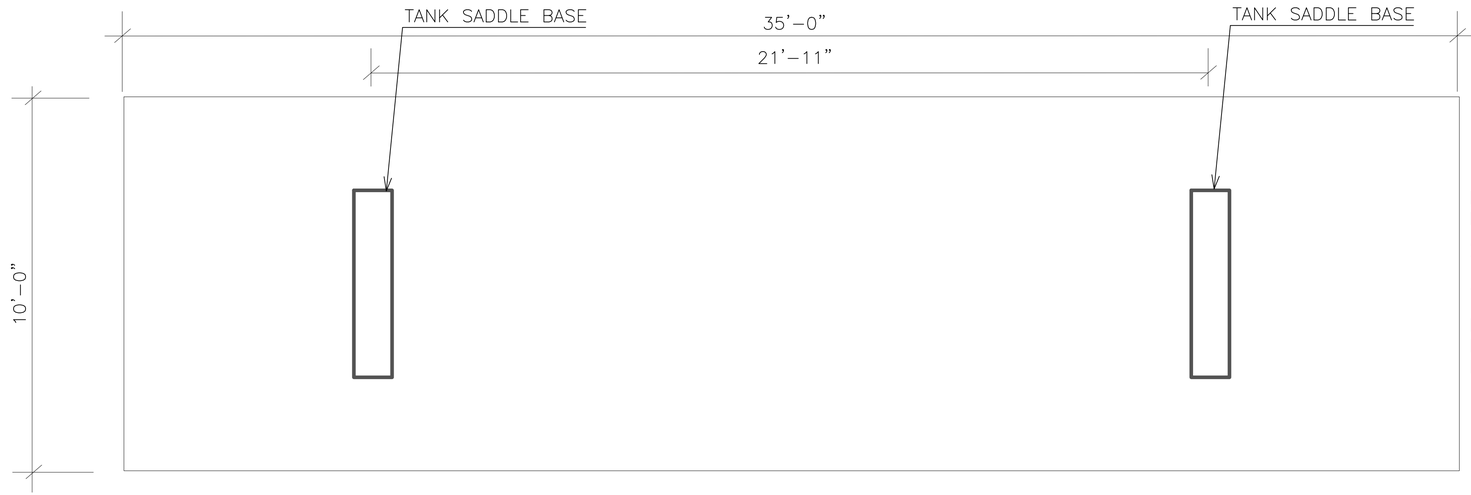
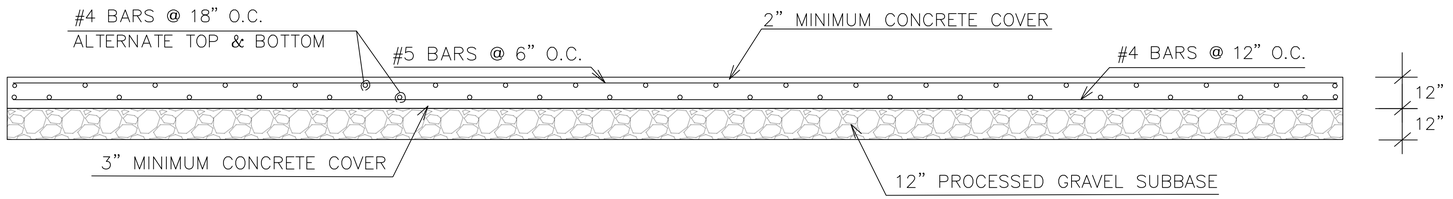


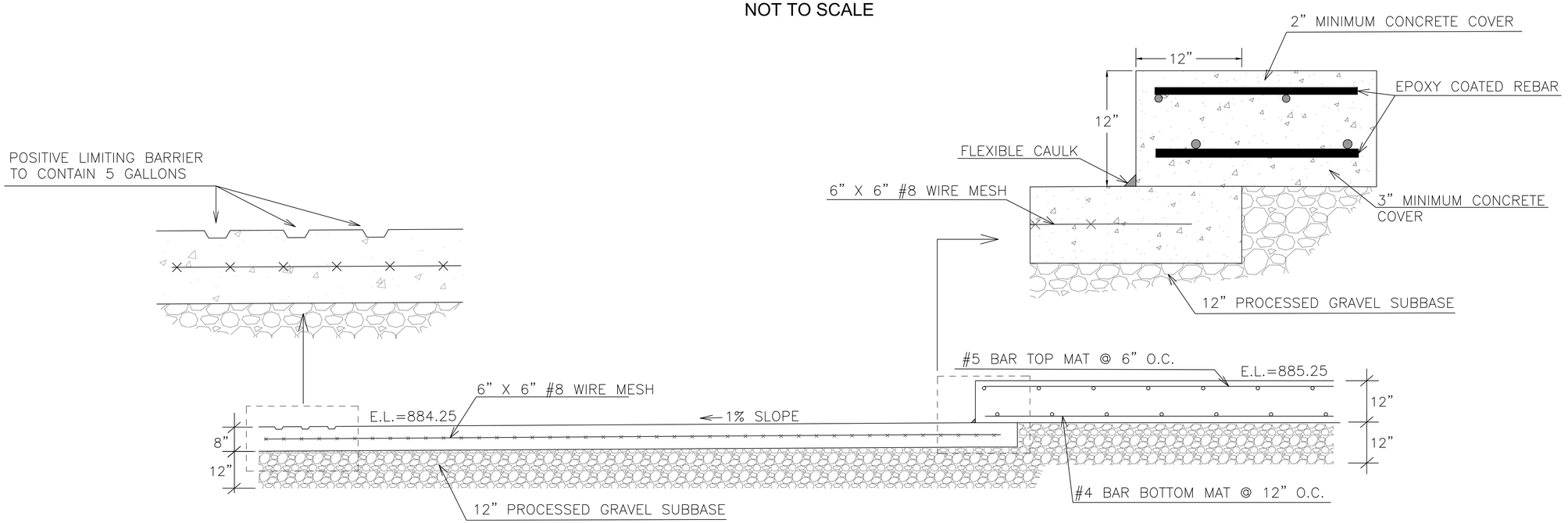
NOTE:
BOLLARDS SHALL BE INSTALLED APPROXIMATELY 1 FOOT FROM THE FUEL TANK AND SPACED 4' APART O.C.

BOLLARD LOCATIONS WILL BE DETERMINED IN THE FIELD DURING CONSTRUCTION.



CONCRETE PAD DETAILS

NOT TO SCALE



LOWER CONCRETE PAD DETAILS

NOT TO SCALE

GENERAL NOTES

1. CONCRETE COMPRESSIVE STRENGTH: 5,000 psi @ 28 DAYS
2. REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GRADE 60 OR ASTM GRADE 60. BAR BENDING AND PLACEMENT SHALL COMPLY WITH LATEST ACI STANDARDS
3. LIFTING INSERTS FOR HANDLING SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS
4. MIN. SOIL BEARING CAP = 3000 PSF
5. NO FOUNDATION SHALL BEAR ON LOAM OR SOIL FILL. THE CONTRACTOR SHALL VERIFY THE EXISTING SOIL SUBGRADE IN THE FIELD AND PROVIDE DOCUMENTATION TO THE ENGINEER PRIOR TO THE PLACEMENT OF ANY CONCRETE.
6. REMOVE ALL DEBRIS FROM BOTTOM OF FOUNDATION PRIOR TO PLACING CONCRETE. DO NOT PLACE CONCRETE ON FROZEN SOIL, ICE, MUD, OR IN WATER. ALL FOUNDATION SUBGRADES SHALL BE INSPECTED AND APPROVED UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER PRIOR TO BEING CONCRETED.
7. IF UNSUITABLE SOIL IS ENCOUNTERED AT THE PROPOSED BOTTOM OF FOUNDATION ELEVATIONS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND NOT PROCEED. IF ROCK IS ENCOUNTERED PRIOR TO THE PROPOSED BOTTOM OF THE FOOTING ELEVATION, THE ROCK SHALL BE OVEREXCAVATED BY 1' AND BACKFILLED WITH ¾" CRUSHED STONE TO THE BOTTOM OF FOOTING AND COVERED WITH FILTER FABRIC.

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DETAILS II

MOY RANCH FACILITY

City of Worcester, MA

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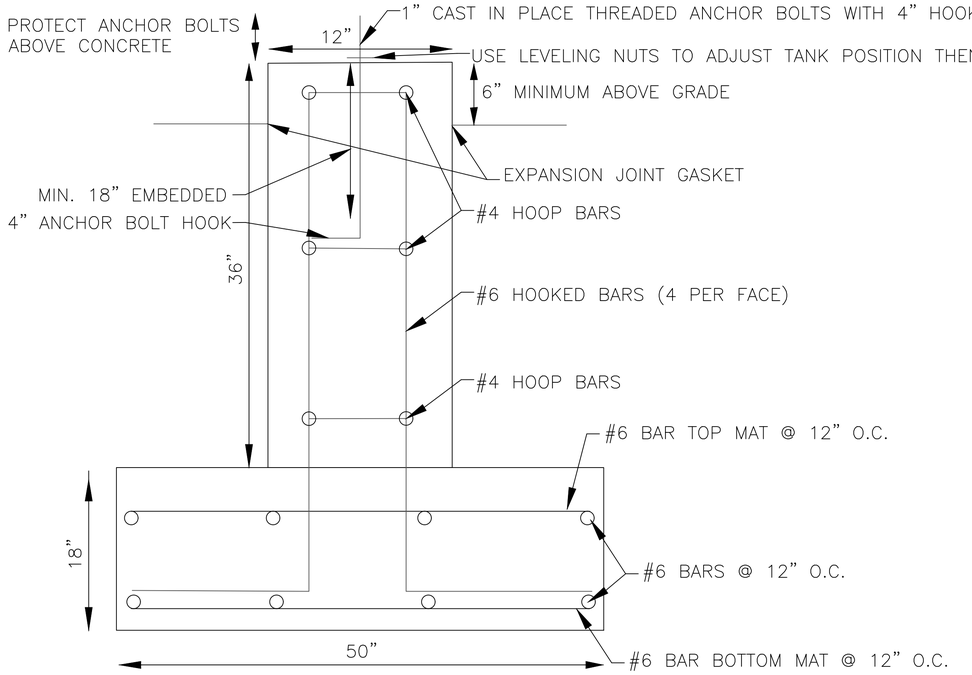
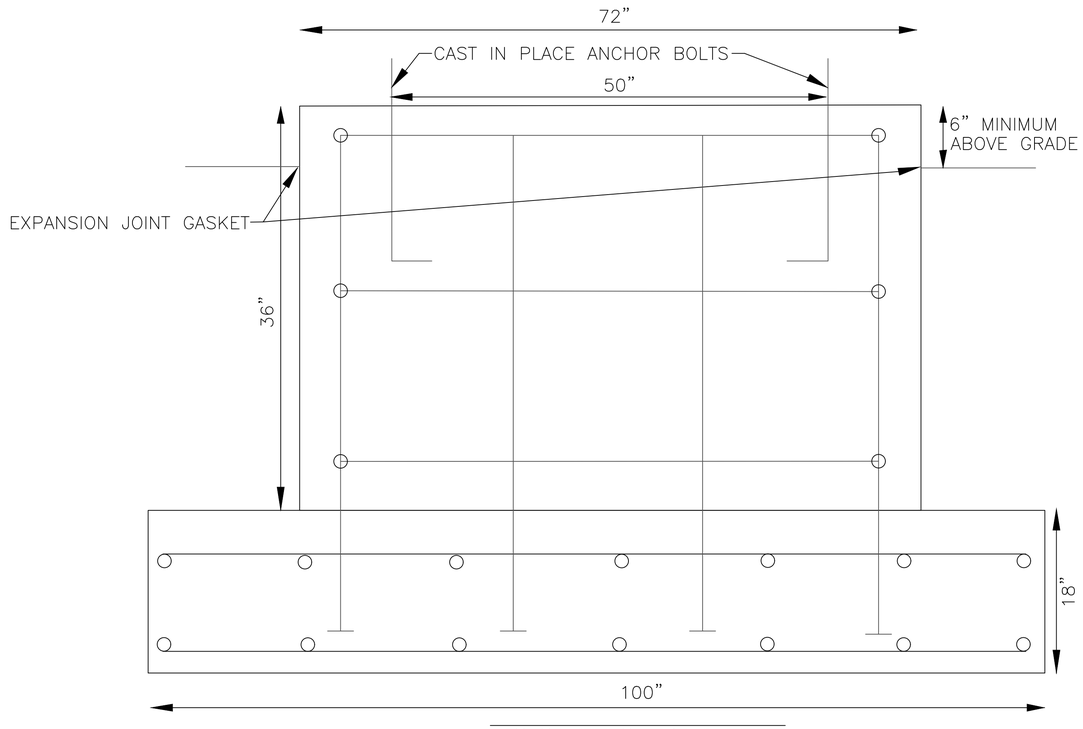


FOOTING DETAIL

NOT TO SCALE



FOOTING DETAIL

NOT TO SCALE

GENERAL NOTES

1. 2" MINIMUM CONCRETE COVER BETWEEN TOP MAT AND SURFACE.
2. 3" MINIMUM CONCRETE COVER BETWEEN BOTTOM MAT AND SURFACE BELOW.
3. USE GRADE 3 EPOXY-COATED REBAR.

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COMPREHENSIVE ENVIRONMENTAL INCORPORATED

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DETAILS III

MOY RANCH FACILITY

City of Worcester, MA

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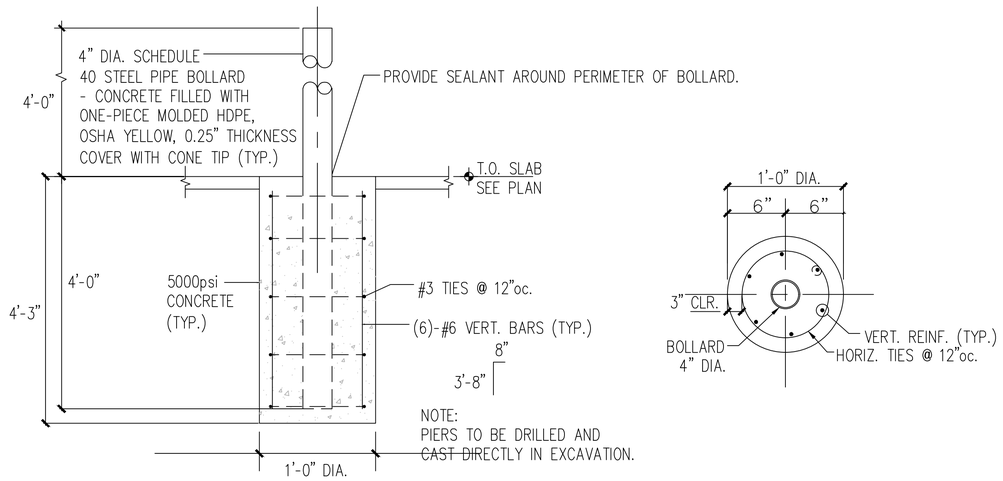
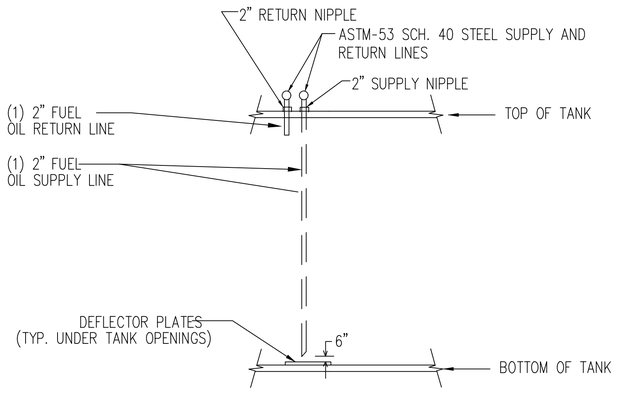


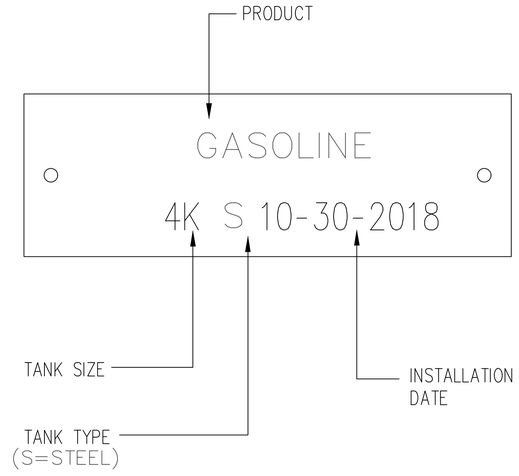
BOLLARD DETAIL

NOT TO SCALE



AST SUPPLY/RETURN CONNECTION DETAIL

NOT TO SCALE



IDENTIFICATION TAG

NOT TO SCALE

I.D. TAG

1" STAMPED STEEL

NOTES :

1. ATTACH I.D TAG TO ACCESS SIDE OF TANK
2. SIMILAR TAG TO BE ATTCHED TO DIESEL TANK

GENERAL NOTES

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COMPREHENSIVE ENVIRONMENTAL INCORPORATED
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DETAILS IV

MOY RANCH FACILITY

City of Worcester, MA

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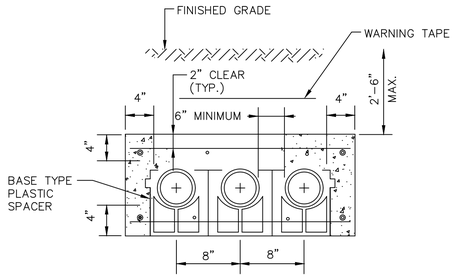
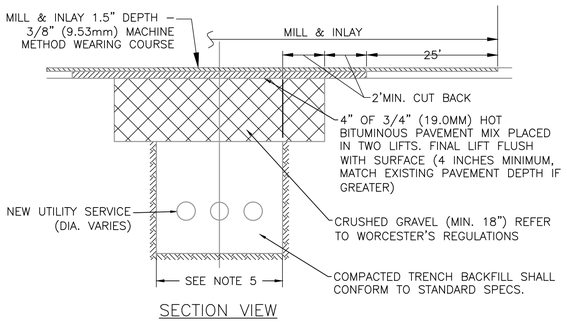


NOTES:

1. TYPICAL CONDUIT TRENCH DETAIL IS SHOWN AS AN EXAMPLE OF THE REQUIREMENTS FOR THE UNDERGROUND INSTALLATION FOR THE UNDERGROUND CONDIUT SYSTEM. THE CONTRACTOR IS REQUIRED TO INSTALL CONDUIT MATERIALS AND SPACING TO MEET THE NFPA REQUIREMENTS AND NEC AND STATE BUILDING CODES.
2. A MINIMUM SPACING OF 6" BETWEEN POWER CONDUITS MUST BE PROVIDED AT ALL TIMES.
3. BACKFILL CONDUIT TRENCH IN LAYERS AND MANUALLY TAMP OR "PUDDLE" CONCRETE FILL. PROVIDE RED DUCT BANK MARKER TAPES, READING "CAUTION – ELECTRICAL LINES BELOW", OVER ENTIRE LENGTH OF CONDUIT LINE. LOCATE TAPES 12 INCHES BELOW GRADE. PROVIDE A TAPE FOR EVERY 12 INCHES OF WIDTH OF CONDUIT LINE.

TRENCH SPACING DETAIL

-NOT TO SCALE-

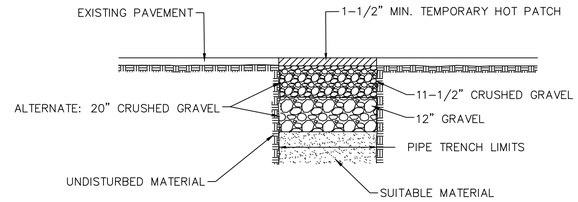


SECTION VIEW

NOTE:
1. MATERIAL THICKNESS SHOWN ARE MINIMUM.
2. PAVEMENT AND MILLING LIMITS MAY BE EXTENDED BY THE ENGINEER.
3. BASE PAVEMENT PATCH SHALL BE FLUSH WITH EXISTING SURFACE AND SIT 30 DAYS PRIOR TO MILL AND INLAY OF WEARING COURSE.
4. ALL WORK SHALL CONFORM TO CITY OF WORCESTER STANDARD SPECIFICATIONS AND THE STREET OPENING REGULATIONS.
5. TRENCH WIDTH SHALL BE 3 FEET OR UTILITY PIPE DIAMETER PLUS 2 FEET WHICHEVER IS GREATER.

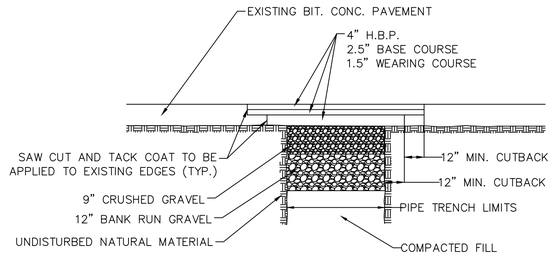
PAVEMENT RESTORATION DETAIL

-NOT TO SCALE-



(NOT FOR WINTER CONSTRUCTION, SEE NOTE 4)

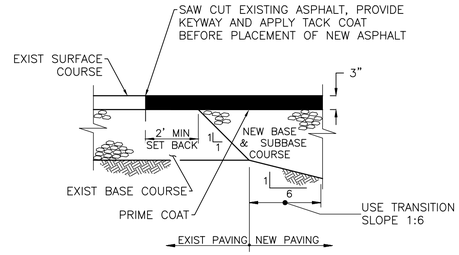
NOTES
1. MATERIALS SHALL BE REPLACED WITH MINIMUM THICKNESS AS SHOWN.
2. PAVEMENT REPAIR IN EXISTING ROADWAYS SHALL CONFORM TO STREET OPENING REQUIREMENTS.
3. ROADWAY CONSTRUCTION SHALL CONFORM TO CITY OF WORCESTER STANDARD SPECIFICATIONS.
4. FOUR INCHES OF $\frac{3}{4}$" (19.0 mm) "WINTER BINDER" HMA REQUIRED FOR TEMPORARY PATCH IN WINTER CONDITIONS.



NOTES
1. PERMANENT PAVEMENT SHALL BE INSTALLED AFTER A 90-DAY SETTLING PERIOD FROM WHEN THE TEMPORARY PAVEMENT WAS INSTALLED.
2. PAVEMENT MIX DEPTH SHALL MATCH OR EXCEED THE EXISTING DEPTH.
3. REPAVE AREAS DISTURBED BY THE TRENCH AS SHOWN OR IN-KIND WITH EXISTING PAVEMENT DEPTH.
4. RESTRIPE WHITE OR YELLOW PAVEMENT MARKINGS DISTURBED BY THE TRENCH IN-KIND WITH EXISTING PAVEMENT MARKINGS AND ALIGNMENT.
5. EXPOSED EDGES OF ALL LONGITUDINAL AND TRANSVERSE SAW CUT JOINTS SHALL BE TREATED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALANT.

PAVEMENT PATCHING DETAIL

-NOT TO SCALE-



PAVEMENT TRANSITION BETWEEN NEW AND EXISTING PAVEMENT DETAIL

-NOT TO SCALE-

GENERAL NOTES

1. CONDUIT WILL BE SCHEDULE 80 PVC
2. CONTRACTOR RESPONSIBLE FOR COMPLETING WIRING, INCLUDING HANDHOLES AND JUNCTION BOXES AS NEEDED

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COMPREHENSIVE ENVIRONMENTAL INCORPORATED

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DETAILS V

MOY RANCH FACILITY

City of Worcester, MA

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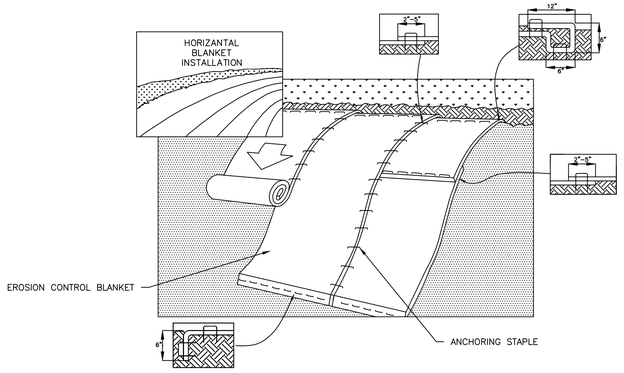
SLOPE INSTALLATION



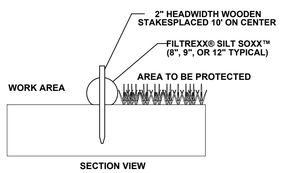
1. PREPARE SOIL BEFORE INSTALLING EROSION CONTROL BLANKET, INCLUDING ANY NECESSARY APPLICATION OF TOPSOIL, LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE EROSION CONTROL BLANKETS IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF THE BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE EROSION CONTROL BLANKETS WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF EROSION CONTROL BLANKETS BACK OVER SEED AND COMPACTED SOIL. SECURE EROSION CONTROL BLANKETS OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE EROSION CONTROL BLANKETS.
3. ROLL THE EROSION CONTROL BLANKETS VERTICALLY DOWN OR HORIZONTALLY ACROSS THE SLOPE. EROSION CONTROL BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL EROSION CONTROL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. STAPLES/STAKES SHOULD BE PLACED THROUGH EACH RECP'S DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL EROSION CONTROL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" – 5" (5 CM – 12.5 CM) OVERLAP DEPENDING ON THE EROSION CONTROL BLANKET TYPE.
5. CONSECUTIVE EROSION CONTROL BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS THE ENTIRE EROSION CONTROL BLANKET WIDTH.

NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

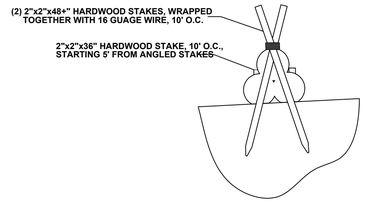
WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.

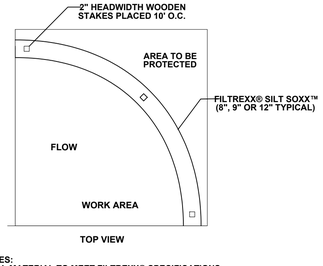
EROSION CONTROL BLANKET
NOT TO SCALE

FILTREXX® SILT SOXX™

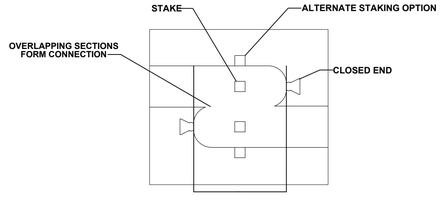


PYRAMID STAKING DETAIL





COMPOST SOCK CONNECTION/ATTACHMENT DETAIL



NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. SILT SOXX™ FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

SILT SOCK EROSION CONTROL
NOT TO SCALE

SEDIMENT & EROSION CONTROL SPECIFICATIONS

GENERAL:
IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT,
INSOFAR AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATERBODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.

LAND GRADING

GENERAL:
1. THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

A. THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
B. THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
C. THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO FOUR VERTICAL (1:4).
D. PROVISION SHOULD BE MADE TO CONVEY SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
E. EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING.
F. NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATERBODIES.
G. PRIOR TO ANY REGRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

TOPSOILING

GENERAL:
1. TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH AND MAINTENANCE OF VEGETATION.
2. UPON ATTAINING FINAL SUBGRADES, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL.
3. REMOVE ALL LARGE STONES, TREE LIMBS, STUMPS, ROOTS AND CONSTRUCTION DEBRIS.
4. APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS PER ACRE.

MATERIAL:
1. TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
2. TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
3. TOPSOIL SHOULD BE RELATIVELY FREE OF SUBSOIL MATERIAL AND MUST BE FREE OF STONES (OVER 1" IN DIAMETER), LUMPS OF SOIL, ROOTS, TREE LIMBS, TRASH, OR CONSTRUCTION DEBRIS.
IT SHOULD BE FREE OF ROOTS OR RHIZOMES FROM, FOR EXAMPLE, THISTLE NUTGRASS, AND QUACKGRASS.
4. AN ORGANIC MATTER CONTENT OF SIX PERCENT (6%) IS REQUIRED. AVOID LIGHT COLORED SUBSOIL MATERIAL.
5. SOLUBLE SALT CONTENT OF OVER 500 PARTS PER MILLION (PPM) IS LESS SUITABLE. AVOID TIDAL MARSH SOILS BECAUSE OF HIGH SALT CONTENT AND SULFUR ACIDITY.
6. THE PH SHOULD BE MORE THAN 6.0. IF LESS, ADD LIME TO INCREASE PH TO AN ACCEPTABLE LEVEL.

APPLICATION:
1. AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
2. SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST SIX INCHES (6"), OR TO THE DEPTH SHOWN ON THE PLANS.

PERMANENT VEGETATIVE COVER

GENERAL:
1. PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE
2. IT WILL BE APPLIED TO ALL CONSTRUCTION AREA SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.

SITE PREPARATION:
1. INSTALL REQUIRED STORMWATER CONTROL MEASURES.
2. REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
3. PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
4. APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
5. APPLY FERTILIZER ACCORDING TO SOIL TEST OR:
-SPREAD SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 300LBS. OF 10-10-10 FERTILIZER PER ACRE (7LBS. PER 1,000 SQ. FT.); THEN SIX (6) TO EIGHT (8) WEEKS LATER, APPLY ON THE SURFACE AN ADDITIONAL 30 LBS. OF 10-10-10 FERTILIZER PER ACRE
AFTER NO MORE THAN 30 DAYS, TEMPORARY COVER SHALL BE APPLIED.
-FALL SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 600 LBS. OF 10-10-10 FERTILIZER PER ACRE (14 LBS. PER 1,000 SQ. FT.).

MONITORING AND MAINTENANCE

INSPECTIONS OF CONSTRUCTION EROSION CONTROLS WILL BE COMPLETED AT LEAST ONCE EVERY DAY AND WITHIN 24 HOURS AFTER A RAINFALL EVENT OF 0.5 INCH OR MORE. EROSION CONTROLS WILL BE CLEANED, REPAIRED OR REPLACED WITHIN 24 HOURS OF INSPECTION OR NOTIFICATION OF A PROBLEM. INSPECTION RECORDS OF MAINTENANCE ACTIVITIES AND ANY PLAN MODIFICATIONS WILL BE KEPT AT THE CONSTRUCTION SITE AND MADE AVAILABLE FOR REVIEW.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE OF THE EROSION CONTROL MEASURES DURING CONSTRUCTION AND AFTER PROJECT COMPLETION.

GENERAL NOTES

No.	Revision/Issue	Date

COMPREHENSIVE ENVIRONMENTAL INCORPORATED
41 Main Street
Bolton, MA 01740

DETAILS VI

MOY RANCH FACILITY

City of Worcester, MA

Project No.: 234-15
Date: September 2025
Drawn By: AH
Checked By: RC
Scale: NOT TO SCALE

Sheet
D-6