

# CT SOLAR PDF, LLC - SITE CIVIL PERMIT PLANS -

60 MIDDLETOWN AVENUE  
NORTH HAVEN, CT 06473

JUNE 2023

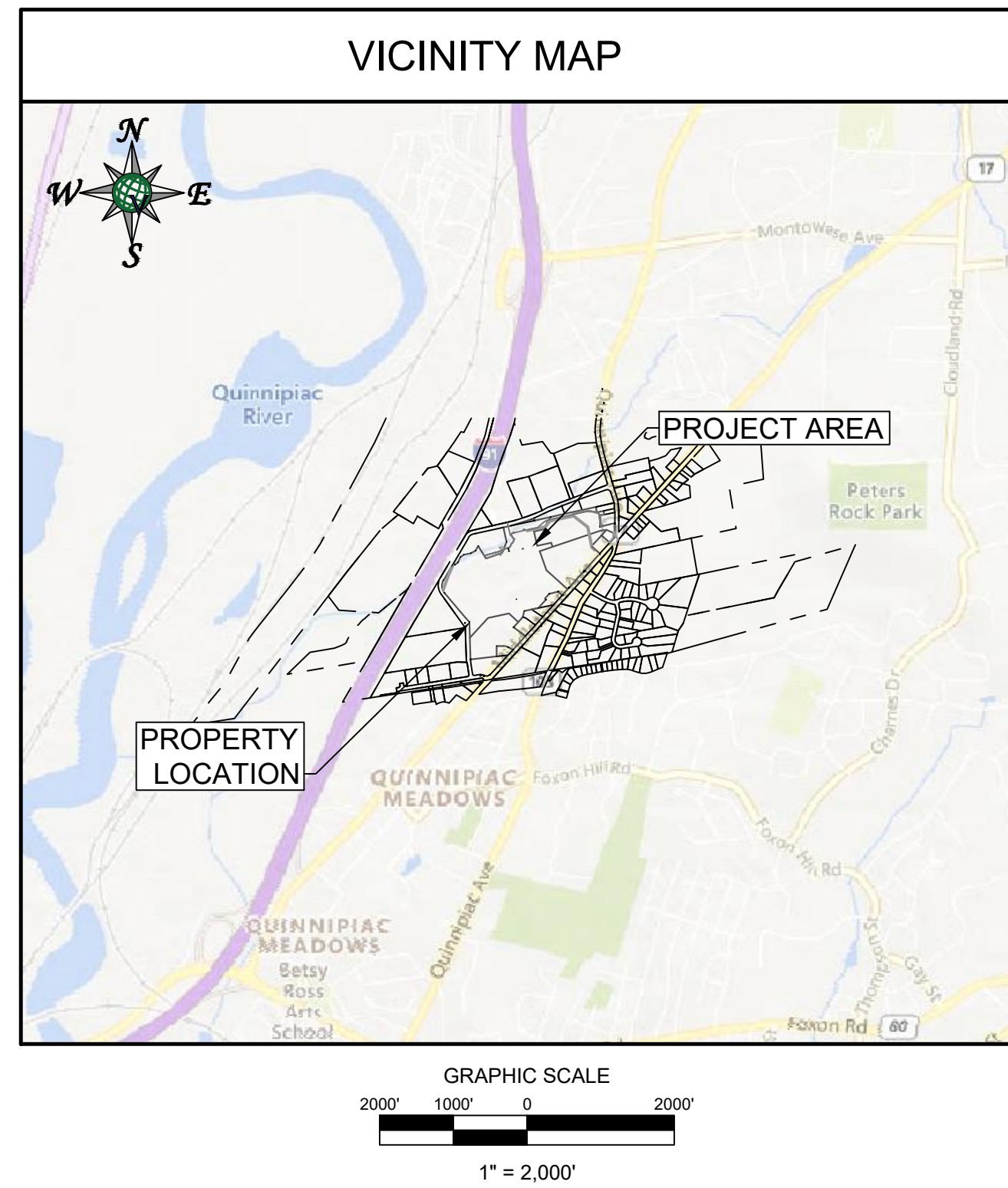


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PLAN REPRODUCTION WARNING:  
THESE PLANS HAVE BEEN CREATED ON ANSI D (22" X 34") SHEETS. FOR REDUCTIONS REFER TO GRAPHIC SCALE.  
THESE PLANS ARE INTENDED FOR FULL COLOR PLOTTING. ANY SET THAT IS NOT PLOTTED IN FULL COLOR SHALL NOT BE CONSIDERED ADEQUATE FOR CONSTRUCTION PURPOSES.

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Project Name:  
CT SOLAR PDF, LLC

Project Number:  
07522001

Scale: AS SHOWN	Drawn By: DK
Date: JUNE 2023	Checked By: CWC/SML

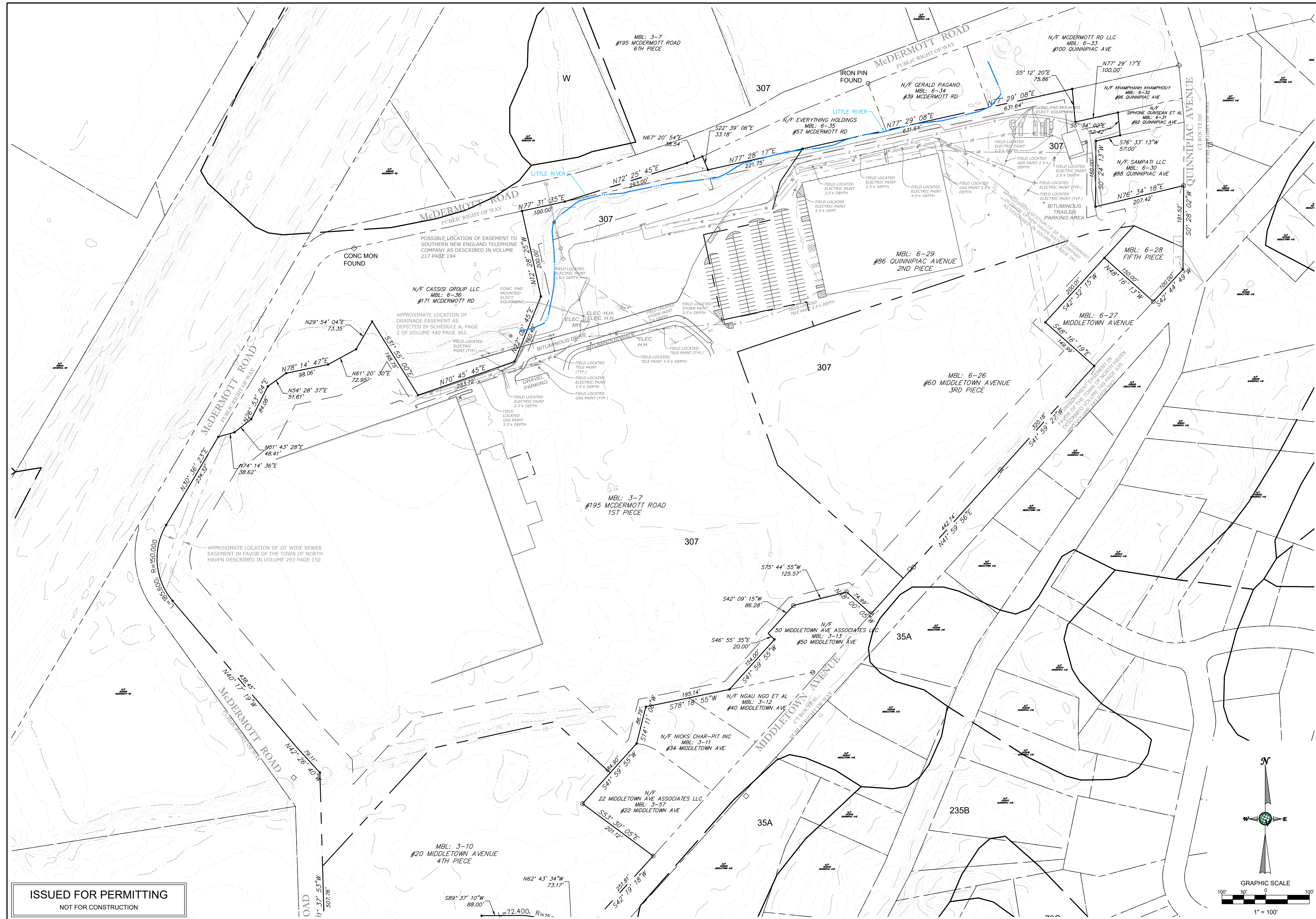
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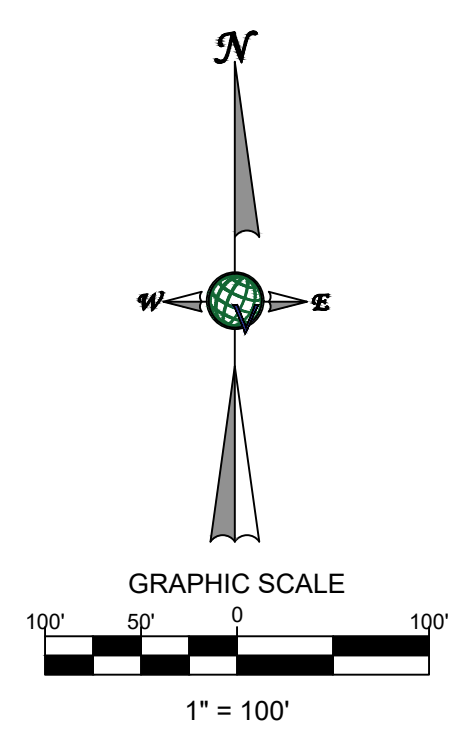
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Scale: AS SHOWN  
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Drawing Description:  
**OVERALL EXISTING  
CONDITIONS &  
DEMOLITION PLAN**

Drawing Number:  
**C1.00**  
Sheet Number:  
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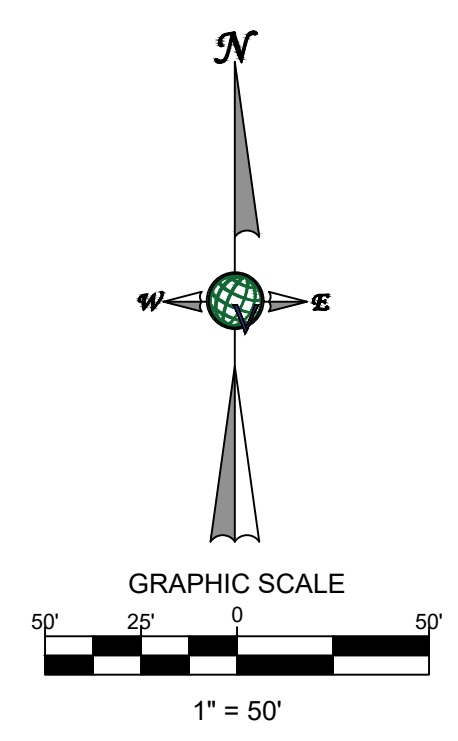
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Drawing Number:  
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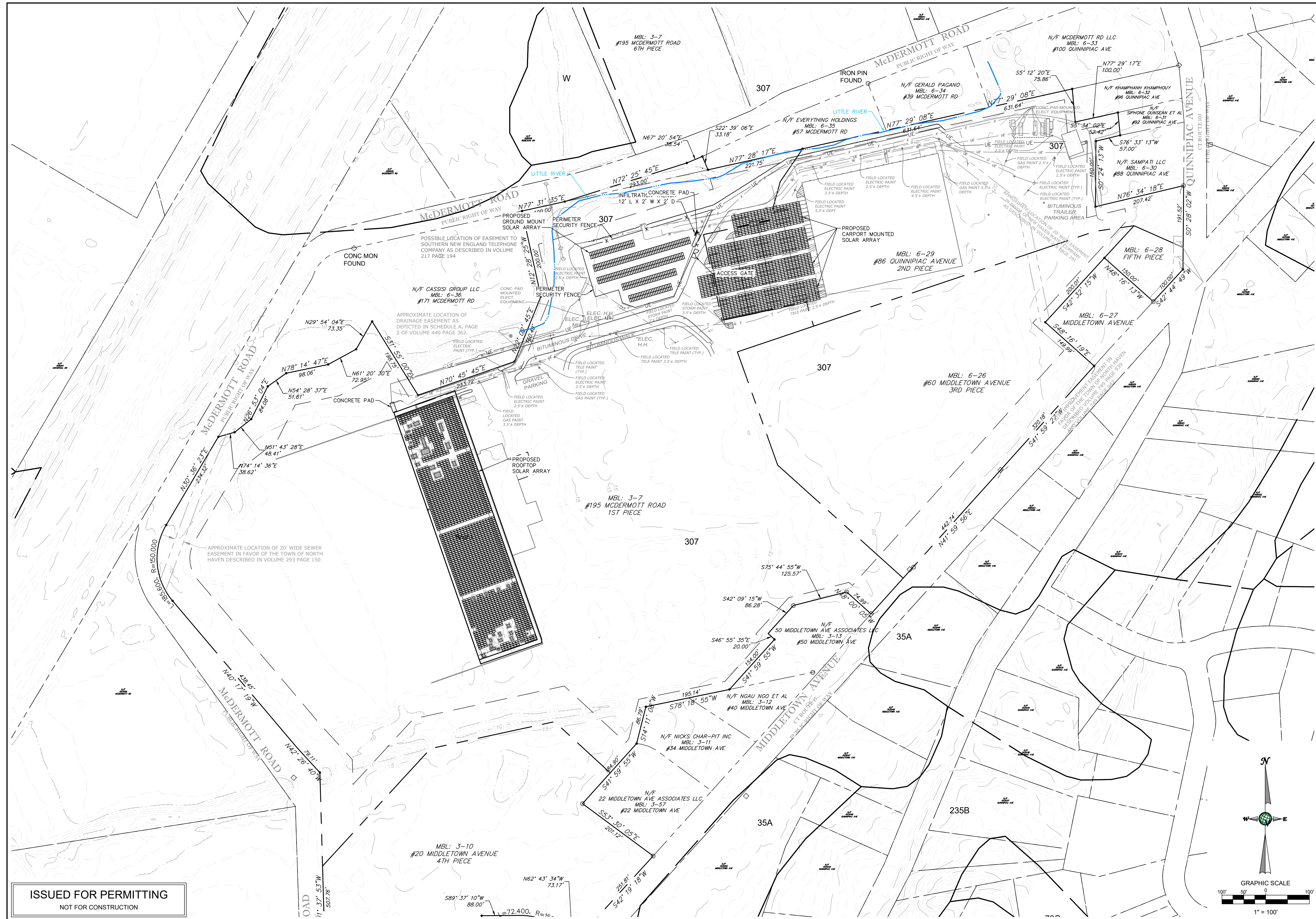
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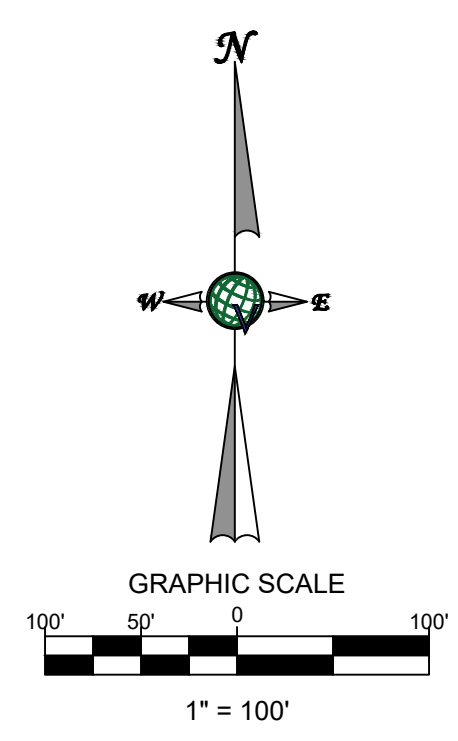
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Drawing Description:  
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Drawing Number:  
**C1.02**  
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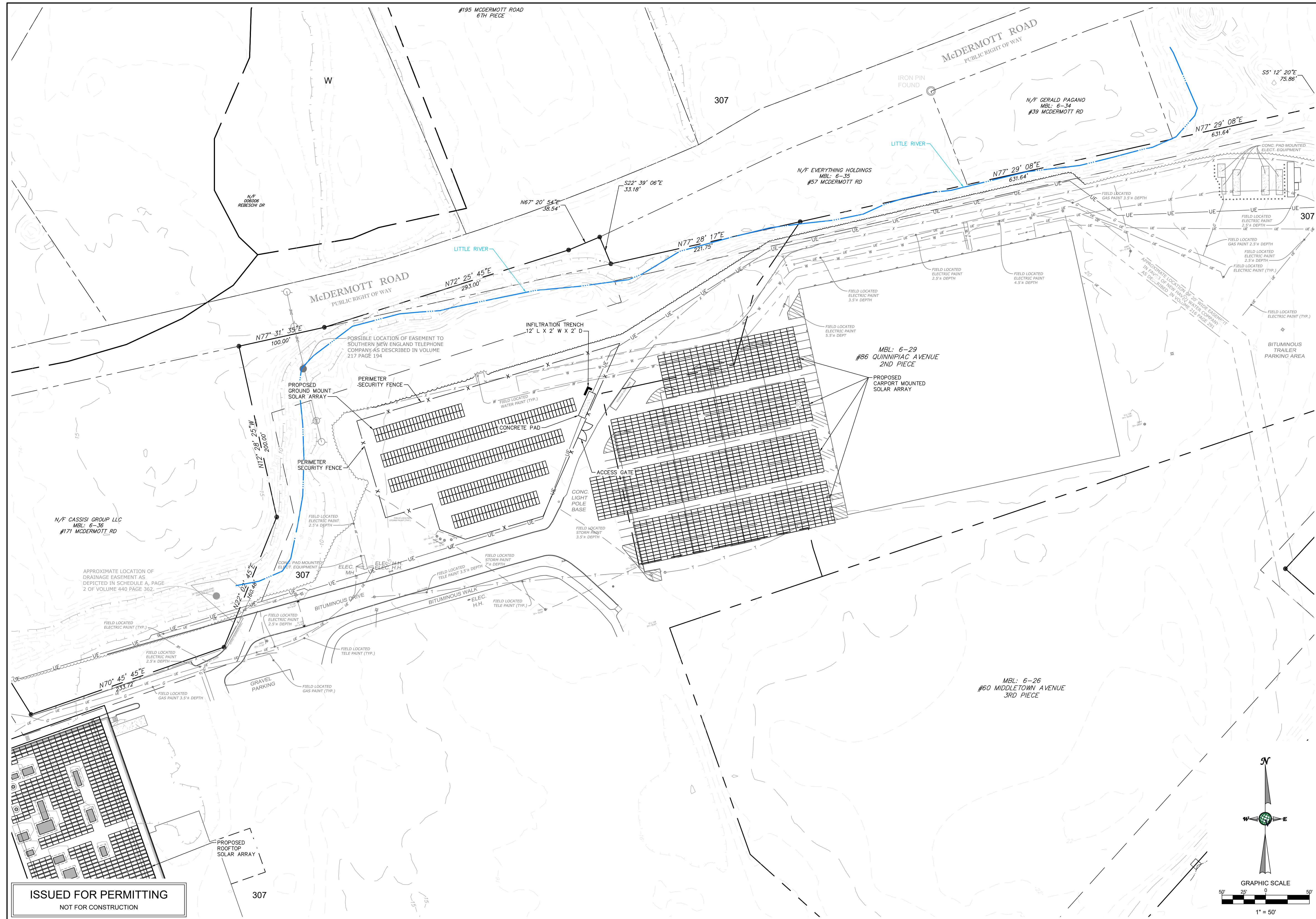
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Project Number:  
07522001

Scale: AS SHOWN  
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Drawing Description:  
OVERALL GRADING PLAN

Drawing Number:  
**C3.00**  
Sheet Number:  
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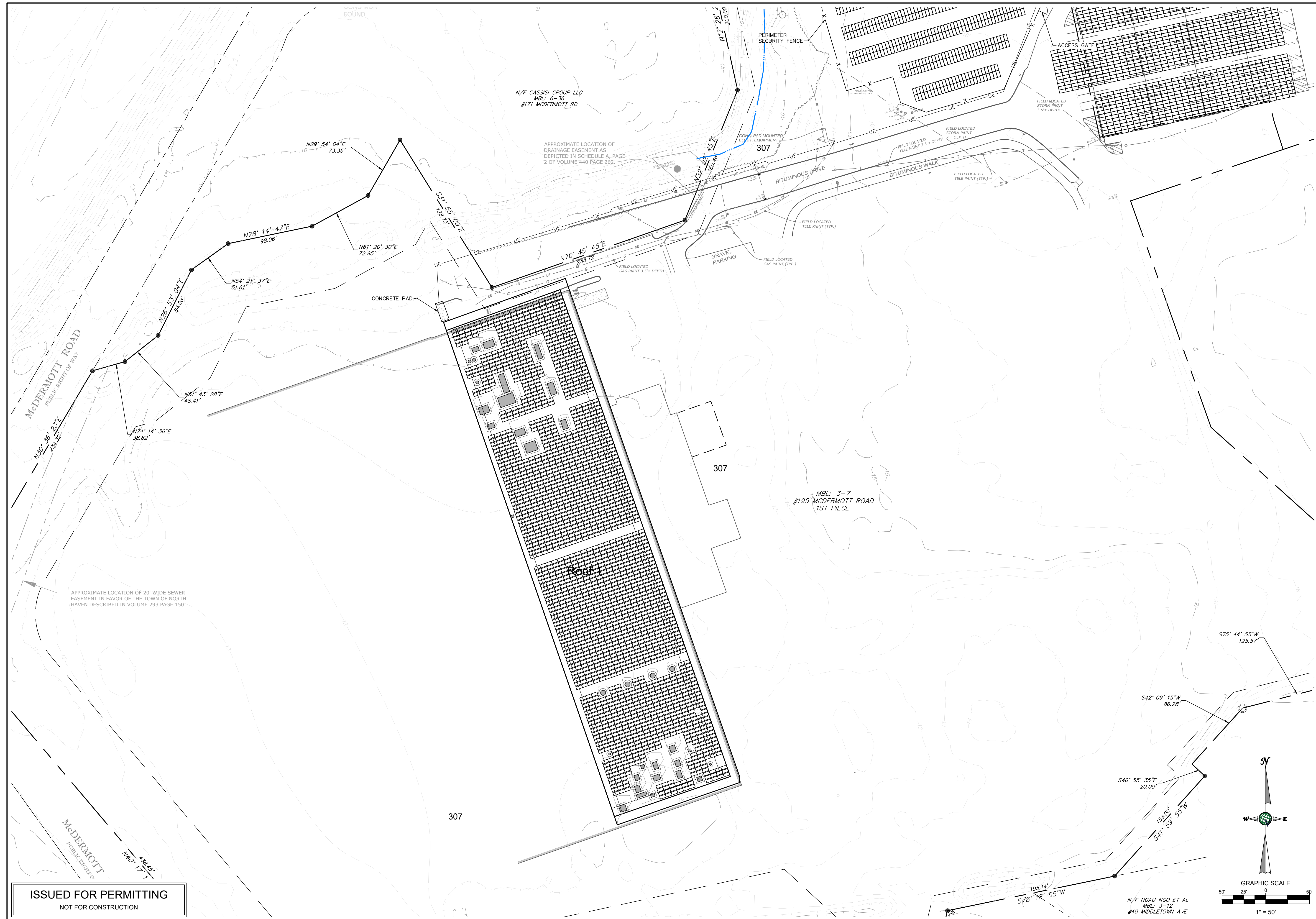
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**CT SOLAR PDF, LLC**

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**07522001**

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**GRADING PLAN**

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**C3.01**  
 Sheet Number:  
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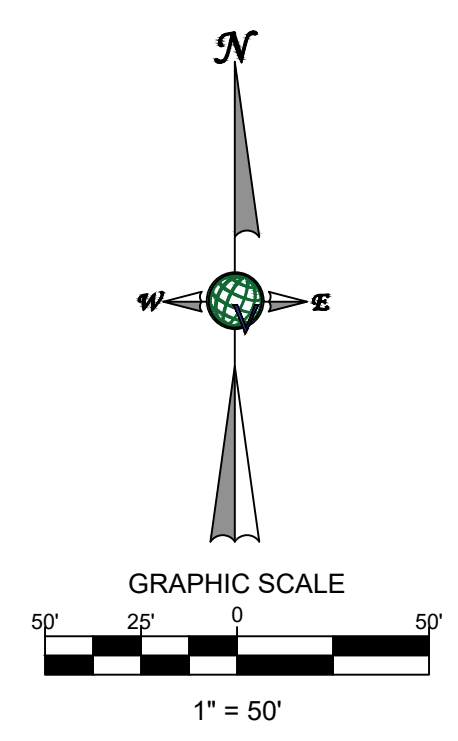
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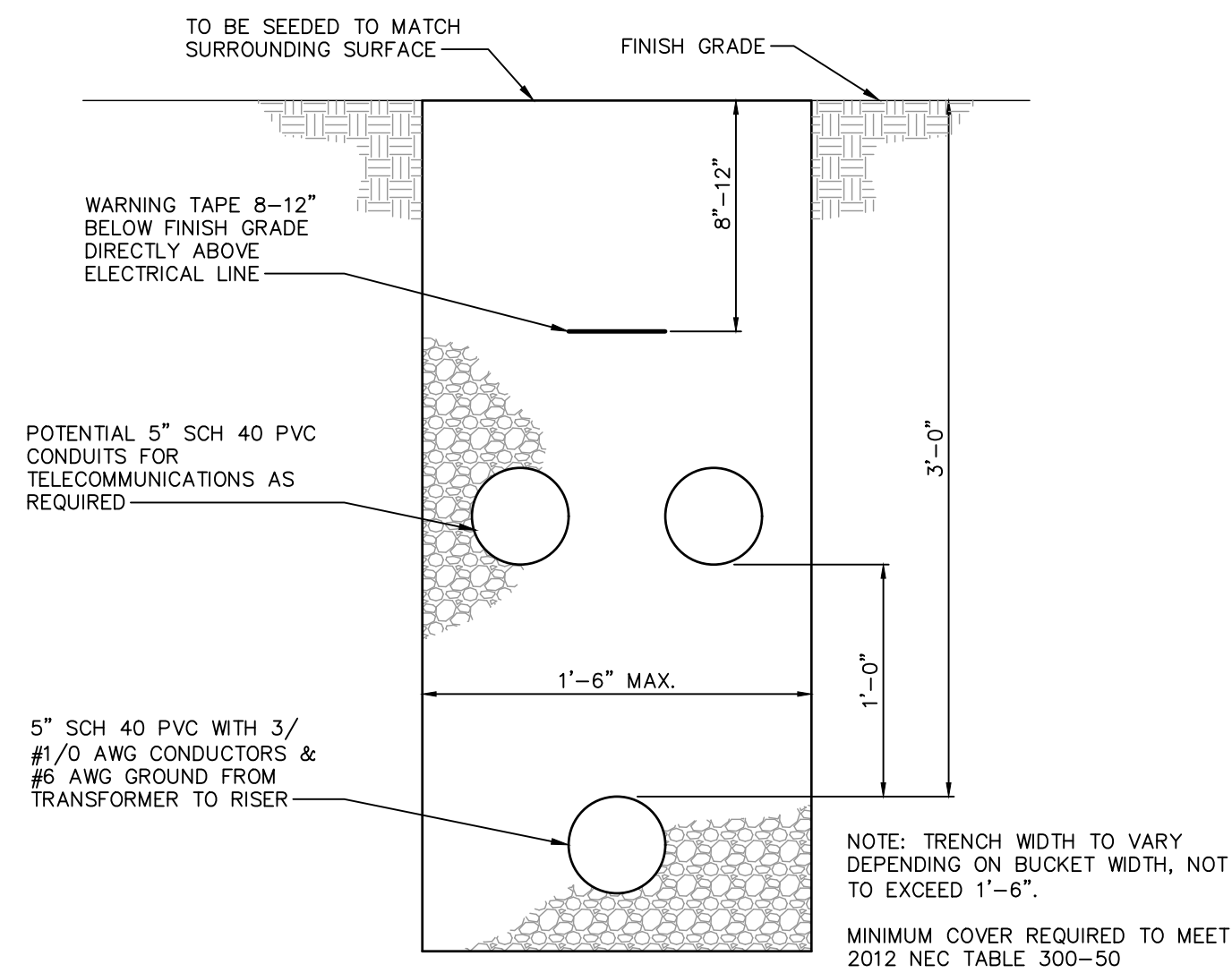
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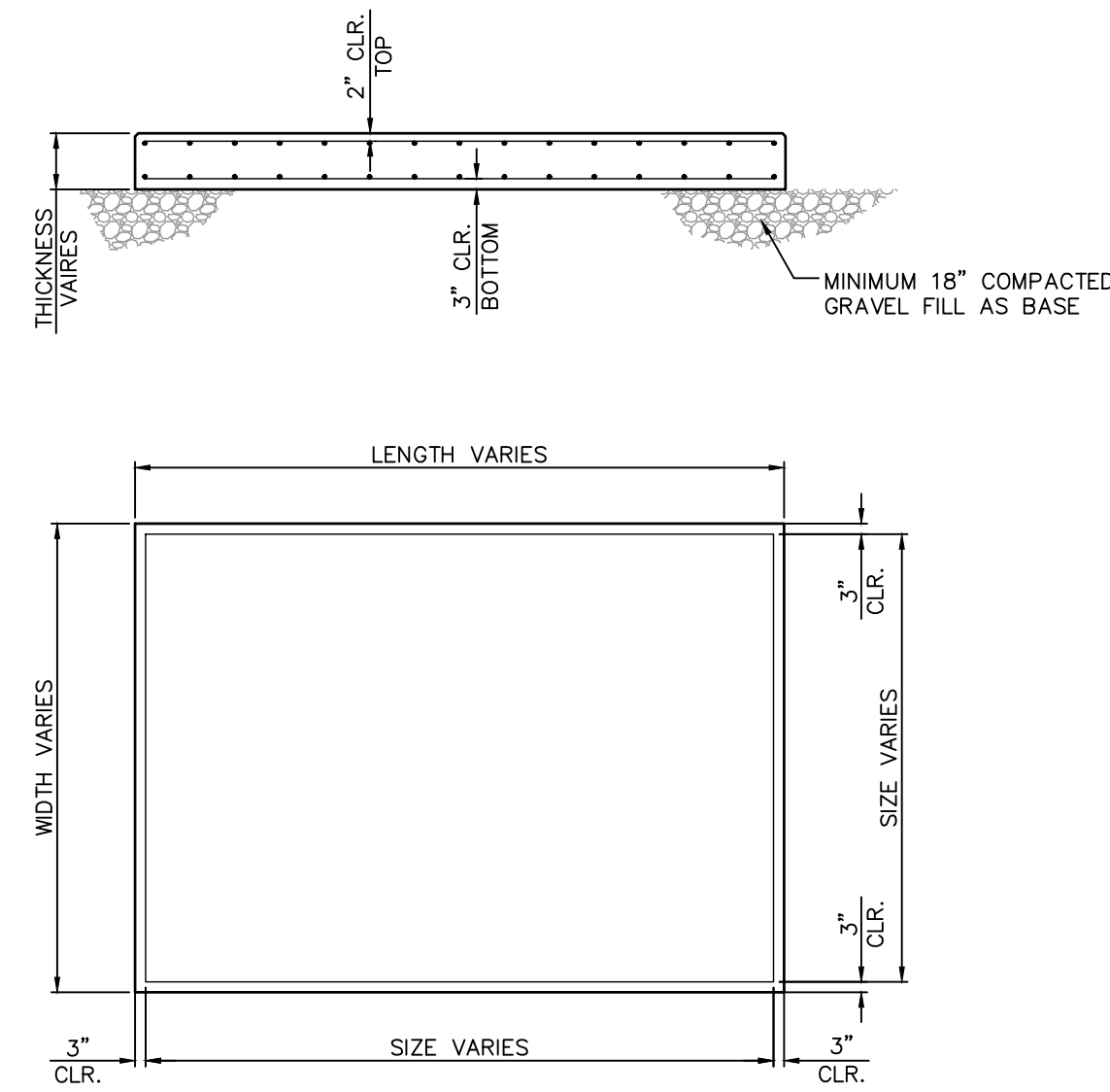






**AC CONDUIT TRENCH DETAIL**

NOT TO SCALE  
DETAIL IS SCHEMATIC ONLY. REFER TO ELECTRICAL PLANS FOR ACTUAL TRENCH DETAIL.



**TYPICAL EQUIPMENT PAD**

NOT TO SCALE

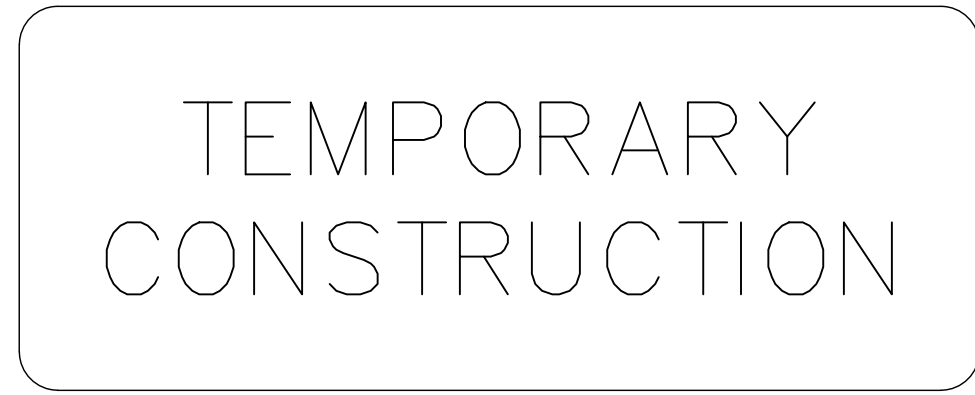
- NOTES:
1. CONCRETE TO BE 4000 PSI @ 28 DAYS.
  2. MAX. SLUMP: 4 INCHES (TO BE MEASURED PRIOR TO PUMPING AND ADDITION OF ADMIXTURES.)
  3. REINFORCING SHALL BE ASTM A615 OR 60 (60 KSI YIELD.)
  4. USE 3/4" CHAMFER ON ALL EXPOSED EDGES, UNLESS NOTED OTHERWISE.
  5. FOUNDATIONS TO BE BACKFILLED & COMPACTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
  6. ESTIMATED CONCRETE QUALITY IS FOR OWNER'S ASSET MANAGEMENT PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR DETERMINING QUANTITIES FOR CONSTRUCTION & BID PURPOSES.
  7. EQUIPMENT ANCHORAGE TO BE HILTI ADHESIVE ANCHOR, DESIGNED UPON RECEIPT OF CERTIFIED EQUIPMENT DRAWINGS.

SITE ADDRESS: XXXXXXXX  
 SITE OWNER: XXXXXXXX  
 CONTACT: XXX-XXX-XXXX

O & M COMPANY: SOLAR PROJECT OWNER NAME  
 CONTACT: XXX-XXX-XXXX

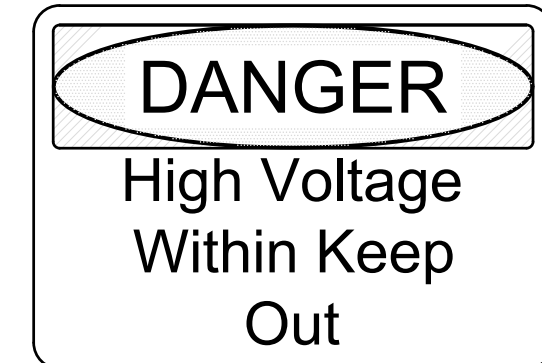
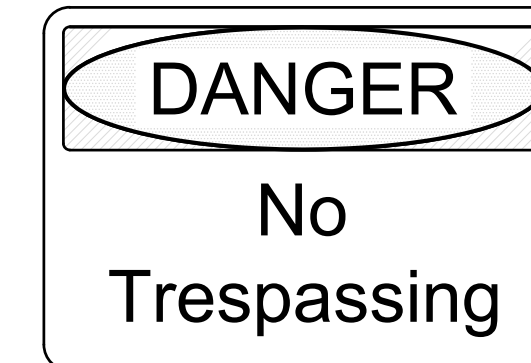
**TYPICAL CONTACT PLAQUE**

NOT TO SCALE



**TEMPORARY CONSTRUCTION SIGN**

NOT TO SCALE

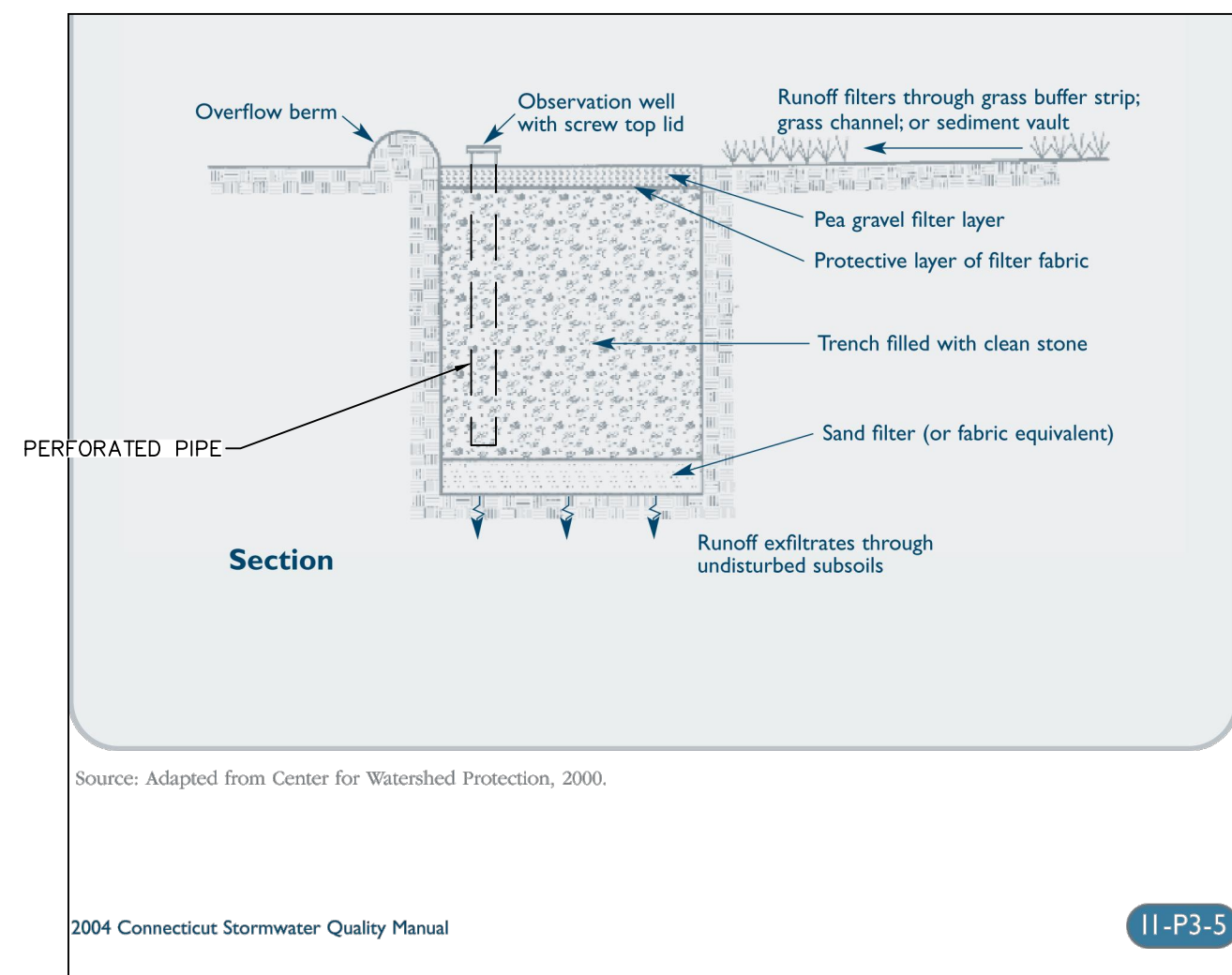


**NOTES**

1. SIGNS SHALL CONFORM TO THE 2013 OSHA AND ANSI REQUIREMENTS.
2. SIGNS SHALL BE 20" WIDE BY 14" HIGH.
3. SIGNS SHALL HAVE A MOUNTING HEIGHT OF BETWEEN 45 TO 66 INCHES.
4. SIGN PANELS SHALL BE 10 GAUGE ALUMINUM WITH HIGH VISIBILITY REFLECTIVE SHEETING.

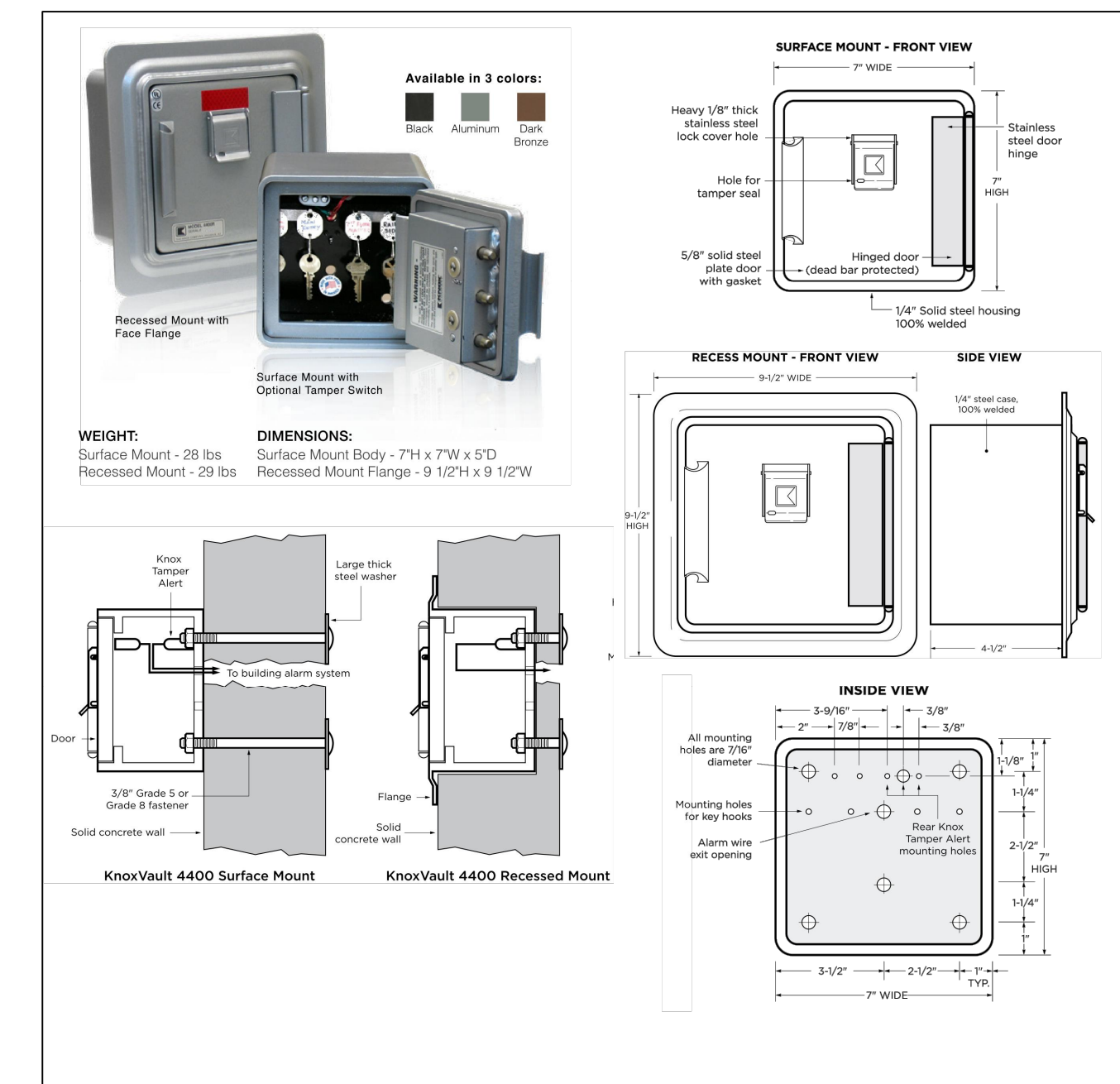
**FENCE WARNING SIGNS**

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**INFILTRATION TRENCH**

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**KNOX BOX**

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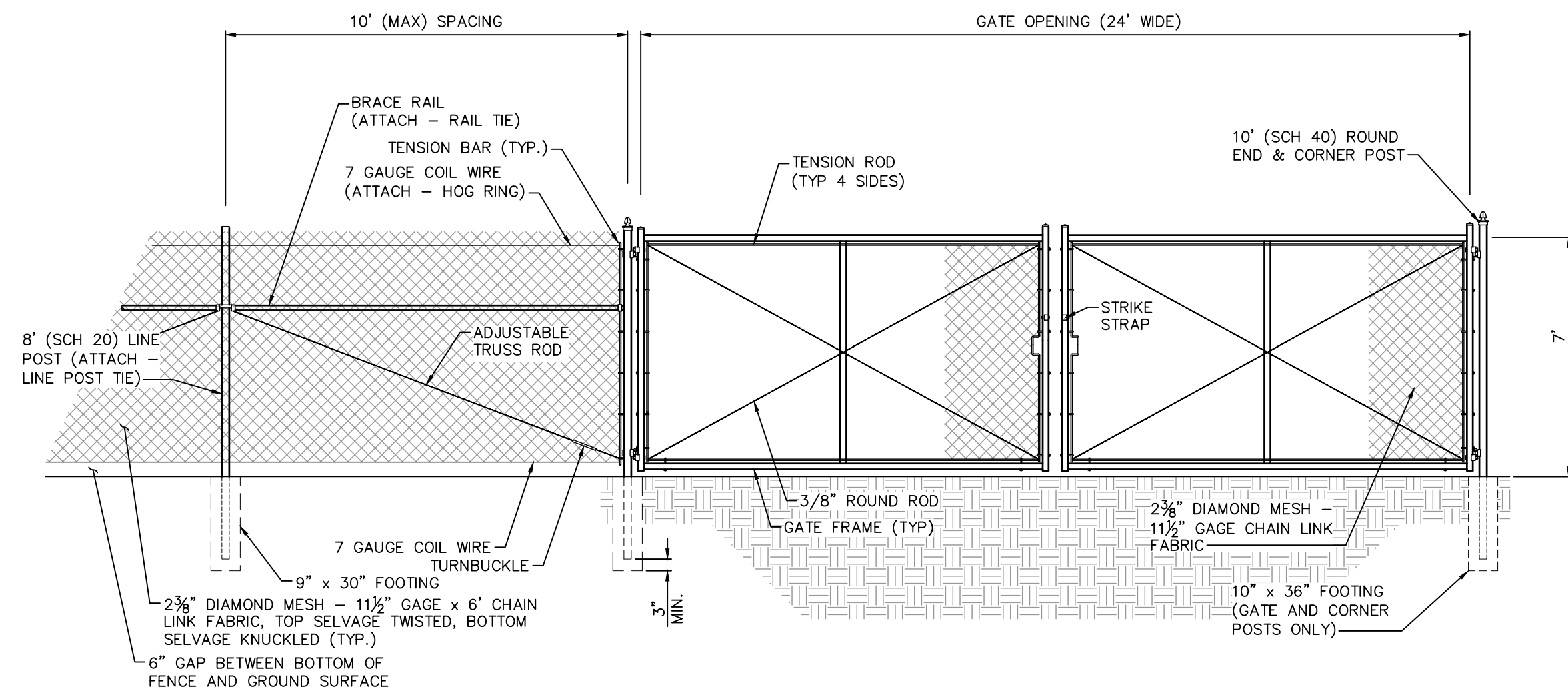
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**07522001**

Scale: AS SHOWN  
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Drawing Description:  
**DETAILS**

Drawing Number:  
**C5.00**  
 Sheet Number:  
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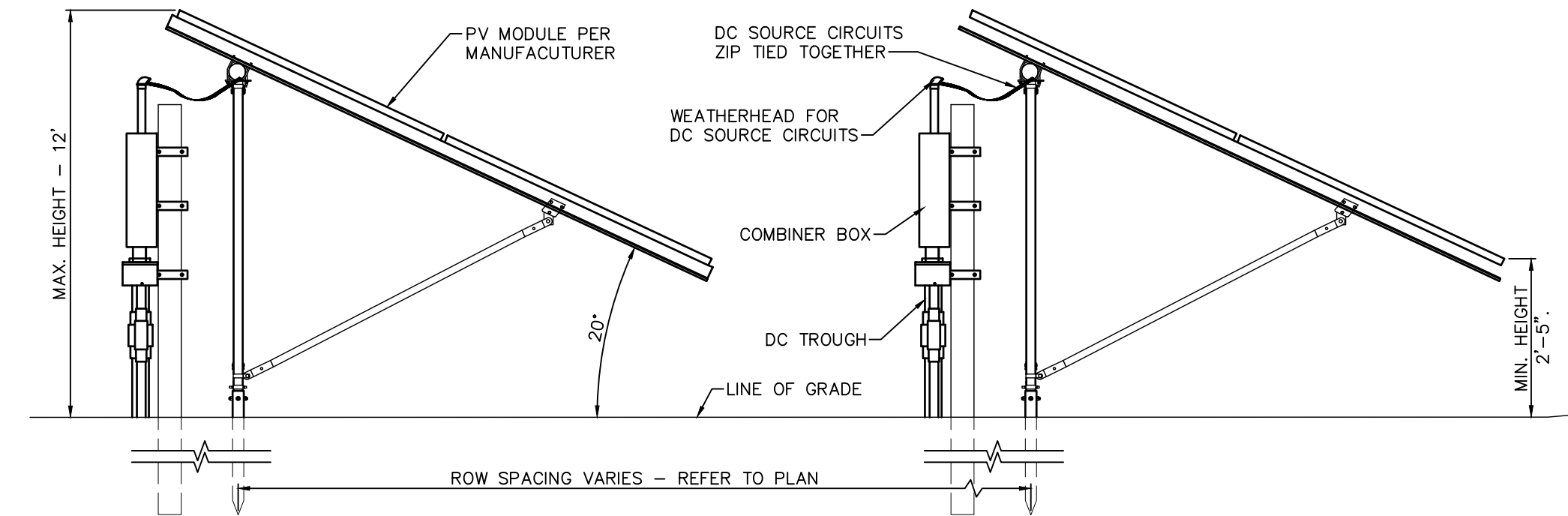
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POST SCHEDULE:	(SCH 40)
TERMINAL	2-3/8" OD
GATE	4" OD
POST SCHEDULE:	(SCH 20)
LINE	1-7/8" OD
BRACE RAIL	1-5/8" OD

TYPICAL ACCESS GATE & FENCE  
NOT TO SCALE

NOTE:  
ALL FENCING MATERIALS  
TO BE GALVANIZED.

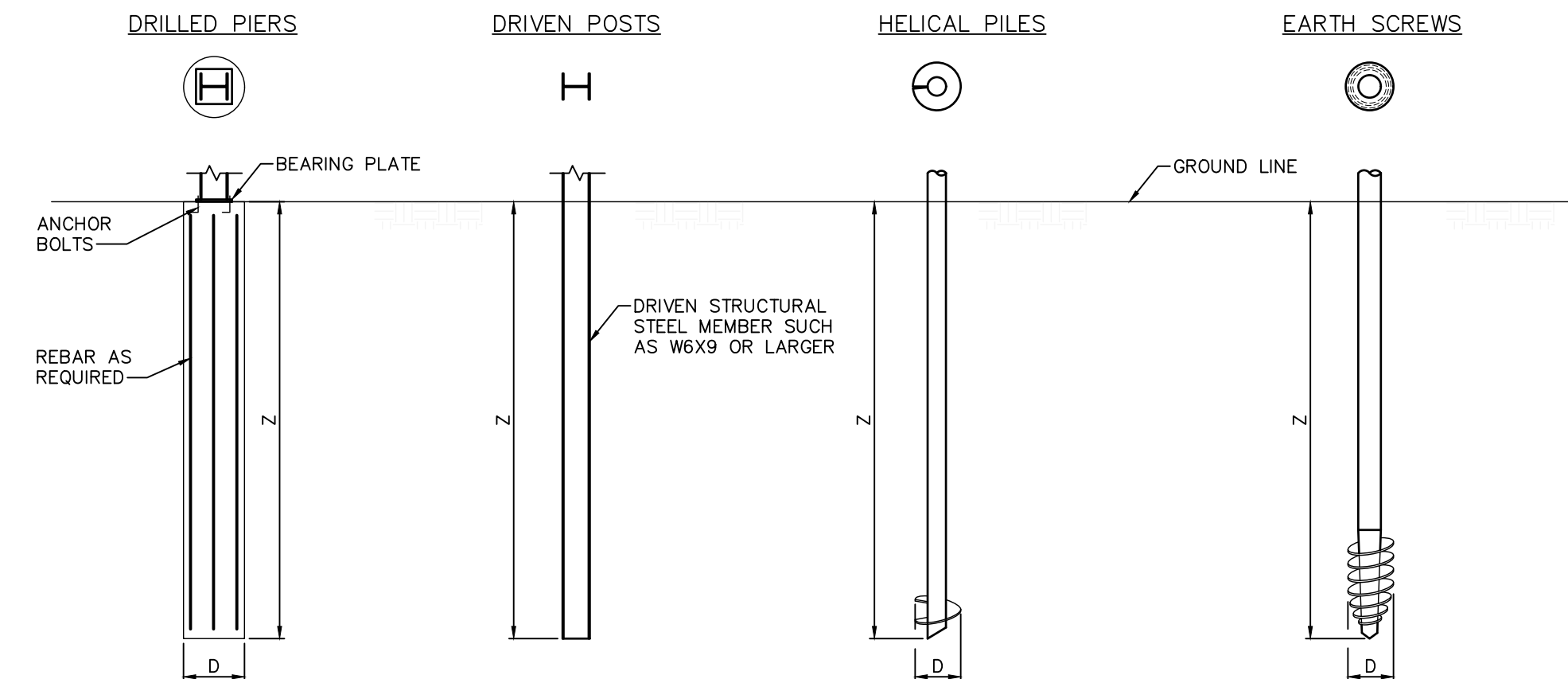


- NOTES:
1. PROVIDE EDGE GUARD OR ADEQUATE PROTECTION FOR PV WIRES AND SHARP EDGES OF RACKING SYSTEM.
  2. PROVIDE DRIP LOOP AND SUPPORT.

FIXED TILT SOLAR PANEL  
NOT TO SCALE

MOWING REQUIREMENTS DUE TO EASTERN BOX TURTLE:

- USE THESE ADDITIONAL TECHNIQUES TO MINIMIZE IMPACT, ESPECIALLY IF YOU NEED TO MOW DURING PEAK USE TIMES:
- MOW ON MULTIYEAR ROTATION, COMBINE WITH CHEMICAL CONTROL OF WOODY PLANTS.
  - FOR GRASSLANDS > 10 ACRES, LIMIT TOTAL MOWING TO 50% EACH YEAR. IF MOWING DURING ACTIVE SEASON, LIMIT TO 25% OF AREA. IF MOWING DURING INACTIVE SEASON LIMIT TO 50% OF AREA.
  - MOWING STYLE: AVOID FLAIL MOWER HEADS WITH GUIDE BARS THAT RIDE ALONG THE GROUND. SICKLE BAR MOWERS WILL HAVE THE LEAST IMPACT IF MOWING EVERY 1-5 YEARS. IN AREAS WITH MORE WOODY VEGETATION > 1-2" DIAMETER BRONTOSAURUS-STYLE MOWER WILL LIKELY HAVE THE LEAST IMPACT ON TURTLES.
  - MOWING HEIGHT: IF MOWING DURING ACTIVE SEASON, RETENTION OF MOWING STUBBLE TO 7-12 INCHES WILL REDUCE MORTALITY, REDUCE BLADE WEAR, AND WILL LEAVE IMPORTANT COVER FOR ANIMALS.
  - DIRECTIONALITY - IF MOWING DURING THE ACTIVE SEASON IS NECESSARY, START MOWING FROM THE CENTER OF THE FIELD AND USE A BACK-AND-FORTH APPROACH, OR LARGE CIRCULAR PATTERN, TO AVOID CONCENTRATING FLEEING ANIMALS WHERE THEY MAY BE KILLED OR STRANDED. IN ADDITION, LEAVE AN UNMOWED 30 FT STRIP AROUND THE PERIMETER OF THE FIELD AND MOW THIS AREA LAST. MOST TURTLES AREA FOUND IN THESE AREAS AND THIS PROVIDES TIME FOR THEM TO REACT TO THE MOWING ACTIVITY AND MOVE OUT OF THE AREA.
  - IF FIELD IS NEAR A STREAM: START MOWING THE SIDE FURTHEST FROM STREAM AND WORK TOWARDS THE STREAM.
  - IF FIELD IS BORDERED BY WOODLAND: START MOWING SIDE FURTHEST FROM WOODLAND AND WORK TOWARDS WOODLAND.
  - IF FIELD IS BORDERED BY ROAD, START MOWING NEXT TO THE ROAD AND WORK YOUR WAY ACROSS THE FIELD.
  - MOWER SPEED - MOWING IN LOW GEAR OR AT SLOW SPEEDS WILL ALLOW TURTLES TO REACT AND MOVE OUT OF THE FIELD.
  - UNMOWED EDGE - LEAVING AN UNMOWED FIELD EDGE IN HIGH TURTLE USE AREAS UNTIL AFTER SEPTEMBER 15TH. EASTERN BOX TURTLES ARE USUALLY ALONG FIELD EDGES ADJACENT TO FOREST AND WOOD TURTLE AREA OFTEN IN FIELD EDGES CLOSEST TO NEARBY STREAMS.
  - LANDSCAPE PLANNING: USE PARTNERSHIPS AND LANDSCAPE SCALE PLANNING TO PROTECT IMPORTANT CONSERVATION AREAS FOR THIS SPECIES.
  - NESTING AREA MANAGEMENT: IDENTIFY AND PROTECT NESTING AREAS FOR THIS SPECIES. WORK WITH BIOLOGISTS TO PLAN YOUR SITE USE AND NESTING SITE MANAGEMENT.



D - TYPICALLY 6" TO 18" DEPENDING ON FOUNDATION TYPE AND IN-SITU CONDITIONS  
Z - GREATER THAN OR EQUAL TO PENETRATION DEPTH

- NOTES:
1. STRUCTURAL REQUIREMENTS AND EMBEDMENT OF FOUNDATION ELEMENTS IS DEPENDENT ON THE RESULTS OF SITE SPECIFIC GEOTECHNICAL EXPLORATION AND RACKING SYSTEM STRUCTURAL DESIGN.
  2. EXAMPLE FOUNDATIONS PRESENTED ABOVE TO BE REVISED BASED ON SITE SPECIFIC REQUIREMENTS.

SOLAR RACKING FOUNDATIONS  
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07522001

Scale:	AS SHOWN	Drawn By:	DK
Date:	JUNE 2023	Checked By:	CWC/SML

Drawing Description:  
DETAILS

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**C5.01**  
Sheet Number:  
10 of 14



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APPROXIMATE LOCATION OF DRAINAGE EASEMENT AS DEPICTED IN SCHEDULE A, PAGE 2 OF VOLUME 440 PAGE 362.

APPROXIMATE LOCATION OF 20' WIDE SEWER EASEMENT IN FAVOR OF THE TOWN OF NORTH HAVEN DESCRIBED IN VOLUME 293 PAGE 150

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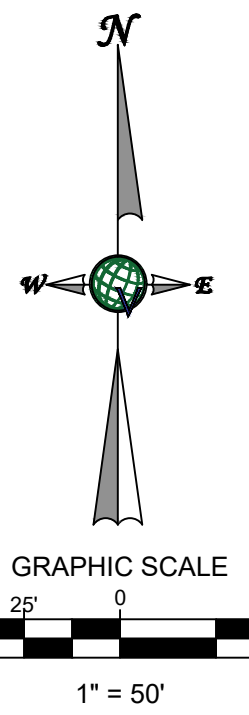
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Drawing Description:  
**EROSION & SEDIMENT POLLUTION CONTROL PLAN**

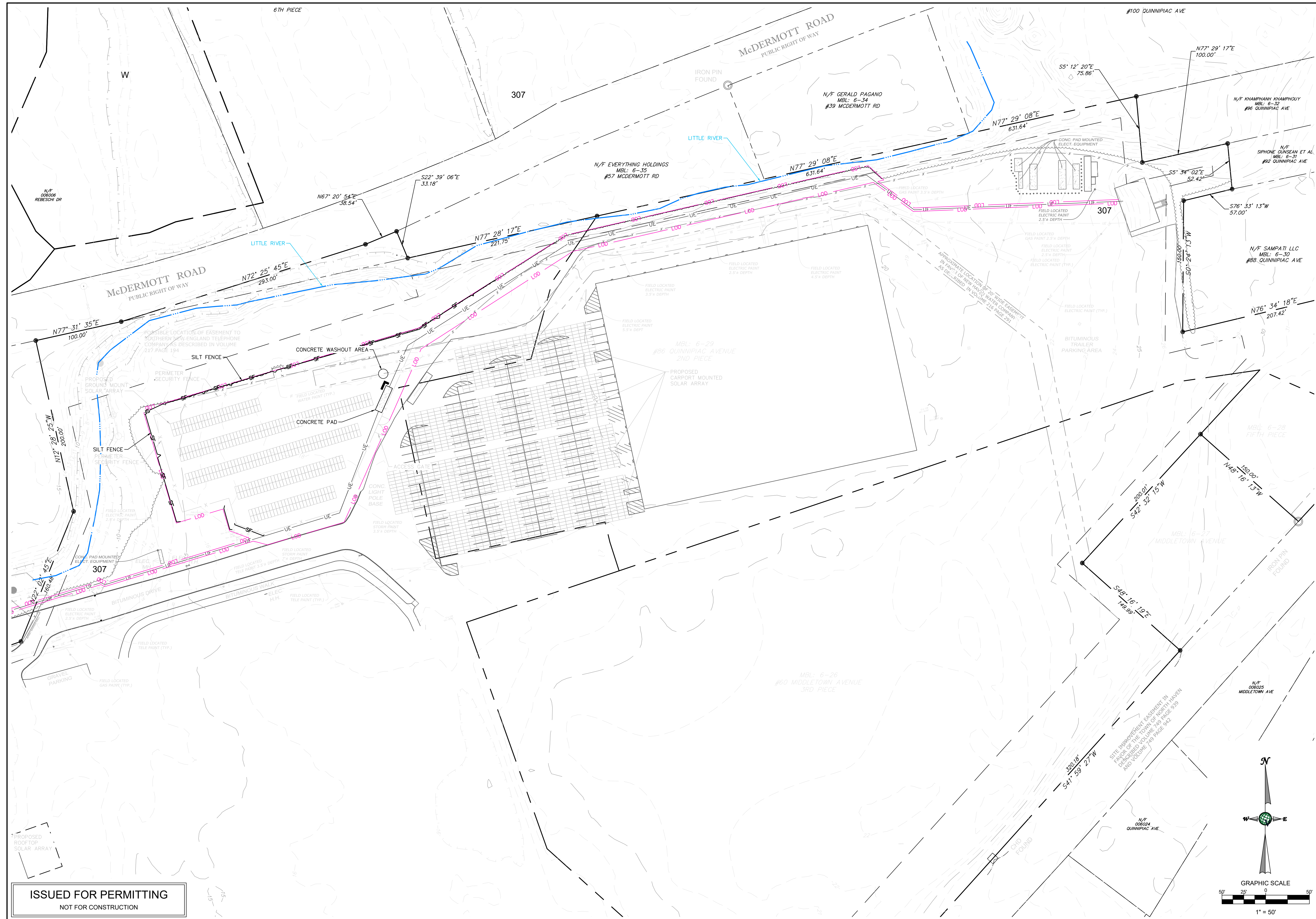
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Sheet Number:  
**11 of 14**



N/F NICKS CHAR-PIT INC  
M/L: 3-11  
#34 MIDDLETOWN AVE



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**EROSION & SEDIMENT  
 POLLUTION CONTROL  
 PLAN**

Drawing Number:  
**C6.02**

Sheet Number:  
 12 of 14

**EROSION CONTROL NOTES:**

PROJECT DESCRIPTION

THE PROJECT INVOLVES THE CONSTRUCTION OF ROOFTOP CARPORT, AND GROUND MOUNTED PHOTOVOLTAIC ARRAYS AND RELATED UTILITIES, SITE PREPARATION, AND EROSION AND SEDIMENTATION CONTROL MEASURES.

- ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- EROSION CONTROL DEVICES WILL BE INSPECTED, REPLACED AND/OR REPAIRED IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR LOSS OF SERVICEABILITY DUE TO SEDIMENT ACCUMULATION, AT A MINIMUM, ALL EROSION CONTROL DEVICES WILL BE OBSERVED WEEKLY.
- DURING THE FUTURE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO CONSTRUCTION SITE.
- SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UP-SLOPE ARE STABILIZED BY A SUITABLE GROWTH OF GRASS. ONCE A SUITABLE GROWTH OF GRASS HAS BEEN OBTAINED, ALL TEMPORARY EROSION CONTROL ITEMS SHALL BE REMOVED BY THE CONTRACTOR. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THEY ARE REMOVED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED, SEEDED, AND MULCHED IMMEDIATELY.
- EARTH DISTURBANCE WILL BE MINIMAL. HOWEVER, ALL DISTURBED AREAS WILL BE SEEDED AND MULCHED PER THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL GUIDELINES.

CONSTRUCTION SEQUENCE

- ESTABLISH TREE REMOVAL AND DISTURBANCE WORKSPACE LIMITS; IDENTIFY AND MARK SENSITIVE RECEPTORS INCLUDING NATURAL RESOURCES AND DOWN GRADIENT DRAINAGE INFRASTRUCTURE.
- INSTALLATION OF ALL EROSION AND SEDIMENT CONTROL MEASURES AND ASSOCIATED WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- PRIOR TO USAGE, CONSTRUCT AND STABILIZE THE CONSTRUCTION ENTRANCE IN THE LOCATIONS INDICATED ON THE EROSION CONTROL PLAN SHEET. MAINTAIN THE STABILIZED CONSTRUCTION ENTRANCE UNTIL ALL DISTURBED AREAS ARE STABILIZED.
- PRIOR TO EARTH DISTURBANCE ACTIVITY, PROPERLY INSTALL AND MAINTAIN PERIMETER SEDIMENT BARRIERS SUCH AS SILT SOCK SILT FENCING AND/OR OTHER APPROVED EROSION CONTROL BARRIERS AS SHOWN ON THE DRAWINGS.
- CLEAR TIMBER, BRUSH, AND COMPLETE TREE REMOVAL; GRUBBING SHALL NOT BE COMPLETED UNTIL JUST PRIOR TO PRELIMINARY GRADING IN A FUTURE PHASE.
- COMPLETE ACCESS ROAD CONSTRUCTION, EQUIPMENT AND SOLAR ARRAY INSTALLATION PER THE PROVIDED PLAN SETS.
- STABILIZE ANY NECESSARY EQUIPMENT STORAGE AND LAYDOWN AREAS WITH MATTING, CRUSHED STONE, OR GRAVEL SUBBASE AS NECESSARY TO MINIMIZE RUTTING AND AVOID PONDING OF STORMWATER.
- WITHIN 7 DAYS OF THE CESSATION OF EARTH DISTURBANCE ACTIVITIES IN AN AREA THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS, STABILIZE ANY EXPOSED SOIL WITH MULCH, OR OTHER NON-ERODIBLE COVER. STABILIZE AREAS WITHIN 50 FEET OF A WETLAND OR WATERBODY WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST.
- WINTER CONSTRUCTION IS CONSTRUCTION ACTIVITY PERFORMED DURING THE PERIOD FROM NOVEMBER 1 THROUGH APRIL 15. IF DISTURBED AREAS ARE NOT STABILIZED WITH PERMANENT MEASURES BY NOVEMBER 1 OR NEW SOIL DISTURBANCE OCCURS AFTER NOVEMBER 1, BUT BEFORE APRIL 15, THEN THESE AREAS MUST BE PROTECTED AND RUND OFF FROM THEM MUST BE CONTROLLED BY ADDITIONAL MEASURES AND RESTRICTIONS. FOR WINTER STABILIZATION, HAY MULCH IS APPLIED AT TWICE THE STANDARD TEMPORARY STABILIZATION RATE. AT THE END OF EACH CONSTRUCTION DAY, AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE STABILIZED. MULCH MAY NOT BE SPREAD ON TOP OF SNOW. ALL VEGETATED DITCH LINES THAT HAVE NOT BEEN STABILIZED BY NOVEMBER 1, OR WILL BE WORKED DURING THE WINTER CONSTRUCTION PERIOD, MUST BE STABILIZED WITH AN APPROPRIATE STONE LINING BACKED BY AN APPROPRIATE GRAVEL BED OR GEOTEXTILE. UNLESS SPECIFICALLY RELEASED FROM THIS STANDARD BY THE DEPARTMENT. MULCH NETTING MUST BE USED TO ANCHOR MULCH ON ALL SLOPES GREATER THAN 8% UNLESS EROSION CONTROL BLANKETS OR EROSION CONTROL MIX IS BEING USED ON THESE SLOPES.
- INSPECT AND REPAIR EROSION CONTROL MEASURES DAILY IN AREAS OF ACTIVE CONSTRUCTION; OTHERWISE WEEKLY AND BEFORE AND AFTER A RAINFALL EVENT OF 0.5-INCHES OR GREATER WITHIN A 24-HOUR PERIOD AND PRIOR TO COMPLETING STABILIZATION MEASURES. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES 1/3 OF THE HEIGHT OF THE BARRIER.
- REPAIR WORK SHOULD BE INITIATED UPON DISCOVERY OF THE PROBLEM BUT NO LATER THAN THE END OF THE NEXT WORKDAY. IF ADDITIONAL BMPs OR SIGNIFICANT REPAIR OF BMPs ARE NECESSARY, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL).
- KEEP A LOG (REPORT) SUMMARIZING THE INSPECTIONS AND ANY CORRECTIVE ACTION TAKEN. THE LOG MUST INCLUDE THE NAME(S) AND QUALIFICATIONS OF THE PERSON MAKING THE INSPECTIONS, THE DATE(S) OF THE INSPECTIONS, AND MAJOR OBSERVATIONS ABOUT THE OPERATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS, MATERIALS STORAGE AREAS, AND VEHICLES ACCESS POINTS TO THE PARCEL. MAJOR OBSERVATIONS MUST INCLUDE BMPs THAT NEED MAINTENANCE, BMPs THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION, AND LOCATION(S) WHERE ADDITIONAL BMPs ARE NEEDED. FOR EACH BMP REQUIRING MAINTENANCE, BMP NEEDING REPLACEMENT, AND LOCATION NEEDING ADDITIONAL BMPs, NOTE IN THE LOG THE CORRECTIVE ACTION TAKEN AND WHEN IT WAS TAKEN.
- THE LOG MUST BE MADE ACCESSIBLE TO DEPARTMENT STAFF AND A COPY MUST BE PROVIDED UPON REQUEST. THE PERMITTEE SHALL RETAIN A COPY OF THE LOG FOR A PERIOD OF AT LEAST THREE YEARS FROM THE COMPLETION OF PERMANENT STABILIZATION.
- MONITOR PUBLIC ROADS FOR SIGNS OF TRACKING OR SPILLING OF SPOIL MATERIAL AND CLEAN-UP AS NECESSARY.
- MAINTAIN ALL TEMPORARY EROSION CONTROLS AND SEDIMENT BARRIERS UNTIL VEGETATION HAS BEEN ESTABLISHED OVER 90% OF THE AREA TO BE REVEGETATED. RESEED SPARSELY VEGETATED AREAS AS NECESSARY.
- REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES WITHIN 30 DAYS AFTER ALL FUTURE PHASES AND WHEN THE SITE IS PERMANENTLY STABILIZED.
- CONTRACTOR WILL BE RESPONSIBLE FOR FOLLOWING PROCEDURES FOUND IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

**REVEGETATION PLAN:**

ANY VEGETATED AREA DISTURBED BY CONSTRUCTION SHALL BE REVEGETATED IMMEDIATELY UPON COMPLETION OF WORK IN THAT AREA. REVEGETATION AREAS SHALL BE IDENTIFIED BY THE OWNER'S REPRESENTATIVE. REVEGETATION PROCEDURES SHALL COMPLY WITH METHODS OUTLINED IN THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

**SEED MIXES:**

**M.13.04--Seed Mixtures:** (a) The grass seed mixture shall conform to the following:

Species	Proportion By Weight (Mass) Pounds (kilograms)	Minimum Purity (Percent)	Minimum Germination (Percent)
CHRWINGS FESCUE, ( <i>FESTUCA RUBRA</i> VAR. <i>COMMUTATA</i> ) CERTIFIED VARIETY: JAMESTOWN, ATLANTA, VICTORY, SHADOW OR EQUAL CERTIFIED VARIETY: NAME THE VARIETY	35 (15.9)	97	80
HARD FESCUE, ( <i>FESTUCA LONGICOLLA</i> ) CERTIFIED VARIETY: RELIANT, SPARTAN, SCALDIS OR EQUAL CERTIFIED VARIETY: NAME THE VARIETY	30 (13.6)	96	85
COLONIAL BENTONASIS, ( <i>IMPACTUS TENIS</i> ) CERTIFIED VARIETY: HIGHLAND OR EQUAL CERTIFIED VARIETY: NAME THE VARIETY	5 (2.3)	95	90
BIRDSFOOT TREFLOIL, ( <i>LOTUS CORNICULATUS</i> ) VARIETY ARVENIS, CERTIFIED VARIETY: EMPIRE OR EQUAL LOW GROWING VARIETY: NAME THE VARIETY	10 (4.5)	96	90
PERENNIAL RYEGRASS, ( <i>LOLIUM PERENNE</i> ) TRUF TYPE, CERTIFIED VARIETY: NAME THE VARIETY	20 (9.1)	98	90

The Birdsfoot Trefoil will be inoculated before planting. Under no circumstances should annual Ryegrass, Italian Rye, or any other seed be added to the seed mixture.

(b) The "temporary" grass seed shall be perennial ryegrass (*Lolium perenne*) or an improved variety thereof, such as Manhattan, having a minimum purity of 98% and a minimum germination of 90%. The seed mixture shall be delivered in new, clean, sealed containers. Labels and contents shall conform to all State and Federal regulations. Seed shall be subject to the testing provisions of the AOSA.

**EASTERN BOX TURTLE:**

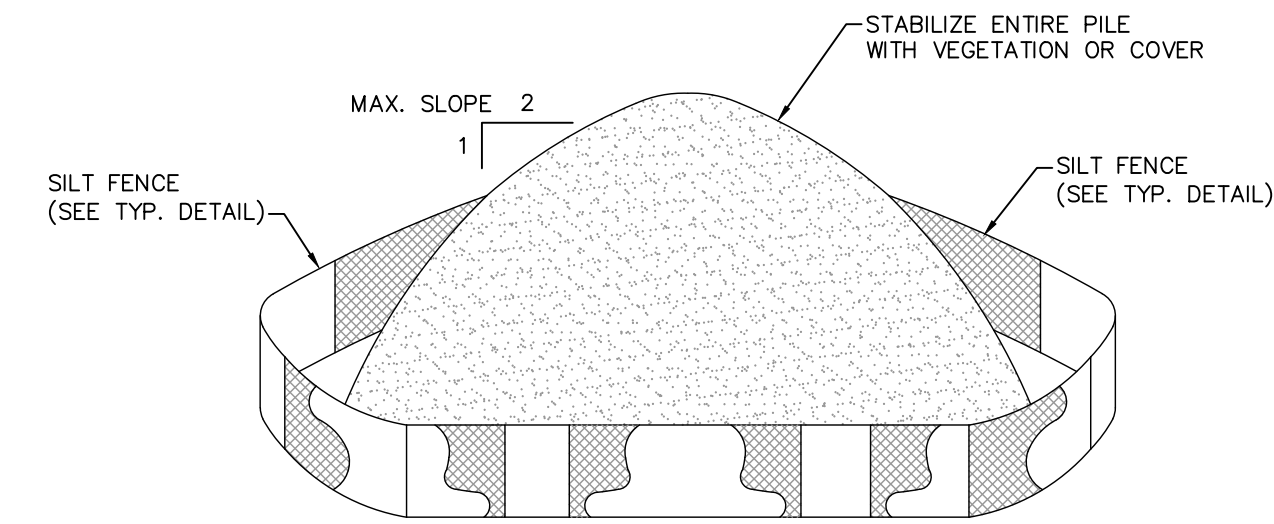
IT IS RECOMMENDED BY THE CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION TO CONSULT WITH A HERPETOLOGIST FAMILIAR WITH THE PREFERRED HABITATS TO ASSIST WITH PROPER TECHNIQUES TO ENSURE THE BEST STRATEGIES ARE EMPLOYED FOR THIS SITE AND THE SCOPE OF THE PROJECT.

TO PREVENT TURTLE ACCESS AND ENTRY INTO THE WORK ZONE BETWEEN APRIL 1 – NOVEMBER 1:

- EXCLUSIONARY PRACTICES WILL BE USED TO PREVENT ANY TURTLE ACCESS INTO DISTURBANCE AREAS. THESE MEASURES WILL NEED TO BE INSTALLED AT THE LIMITS OF DISTURBANCE AS SHOWN ON THE PLANS, OR SPECIFICALLY DESIGNATED BY A HERPETOLOGIST WHO CAN ASSES THE CONDITIONS OF THE SITE.
- EXCLUSIONARY FENCING SHOULD BE AT LEAST 20 INCHES TALL AND MUST BE SECURED TO AND REMAIN IN CONTACT WITH THE GROUND AND BE REGULARLY MAINTAINED (AT LEAST BI-WEEKLY AND AFTER MAJOR WEATHER EVENTS) TO SECURE ANY GAPS OR OPENINGS AT GROUND LEVEL THAT MAY LET ANIMALS PASS THROUGH.
- ALL STAGING AND STORAGE AREAS, OUTSIDE OF PREVIOUSLY PAVED LOCATIONS, REGARDLESS OF THE DURATION OF TIME THEY WILL BE UTILIZED, MUST BE REVIEWED TO REMOVE INDIVIDUALS AND EXCLUDE FROM RE-ENTRY.
- ALL CONSTRUCTION PERSONNEL WORKING WITHIN THE TURTLE HABITAT MUST BE APPRISED OF THE SPECIES DESCRIPTION AND THE POSSIBLE PRESENCE OF A LISTED SPECIES.
- THE CONTRACTOR SHOULD SEARCH THE WORK AREA EACH MORNING PRIOR TO ANY WORK BEING DONE.
- ANY TURTLES ENCOUNTERED WITHIN THE IMMEDIATE WORK AREA SHALL BE CAREFULLY MOVED TO AN ADJACENT AREA OUTSIDE OF THE EXCLUDED AREA AND FENCING SHOULD BE INSPECTED TO IDENTIFY AND REMOVE THE ACCESS POINT. THIS ANIMAL IS PROTECTED BY LAW AND SHOULD NOT BE RELOCATED OFF-SITE.
- IN AREAS WHERE SILT FENCE IS USED FOR EXCLUSION, IT SHALL BE REMOVED AS SOON AS THE AREA IS STABLE AND DISTURBANCE IS FINISHED TO ALLOW FOR REPTILE AND AMPHIBIAN PASSAGE TO RESUME.
- IF LAND DISTURBANCE WILL OCCUR IN SUITABLE OVERWINTERING FORESTED HABITAT YOU WILL NEED TO TAKE PRECAUTIONS TO AVOID MORTALITY OF HIBERNATING ADULTS. IF PRACTICABLE, SMALL PROJECTS, UNDER THE SUPERVISION OF A QUALIFIED HERPETOLOGIST, MAY BE ABLE TO UTILIZE A COMBINATION OF EXCLUSIONARY FENCING INSTALLED BEFORE OCTOBER 15, COMBINED WITH AND SURVEYS TO ENSURE THAT NO TURTLES ARE WITHIN THE ENCLOSED FENCING. WORK CAN THEN BE CONDUCTED WITHIN THE FENCED AREA AT ANY TIME OF YEAR AS LONG AS THE FENCING IS MAINTAINED. PROJECTS THAT WILL IMPACT LARGE BLOCKS OF FOREST OR SIGNIFICANT OVERWINTERING HABITAT MAY NEED TO RESTRICT YOUR LAND DISTURBANCE ACTIVITIES IN FORESTED HABITAT TO THE TURTLE ACTIVE SEASON. THESE PROJECTS WOULD NEED TO RESTRICT LAND DISTURBANCE ACTIVITIES TO OCCUR ONLY BETWEEN APRIL 1 – OCTOBER 31.
- EARLY SUCCESSIONAL HABITAT IS IMPORTANT FOR THIS SPECIES AND MAINTENANCE BY MOWING IS ESSENTIAL. UNFORTUNATELY, MOWING IS MAJOR SOURCE OF HUMAN INDUCED ADULT TURTLE MORTALITY.
- AVOID MOWING OR VEHICULAR TRAFFIC DURING PEAK USE BY THIS SPECIES (MAY 15 – SEPT 15).

USE THESE ADDITIONAL TECHNIQUES TO MINIMIZE IMPACT, ESPECIALLY IF YOU NEED TO MOW DURING PEAK USE TIMES:

- MOW ON MULTIYEAR ROTATION, COMBINE WITH CHEMICAL CONTROL OF WOODY PLANTS.
- FOR GRASSLANDS > 10 ACRES, LIMIT TOTAL MOWING TO 50% EACH YEAR. IF MOWING DURING ACTIVE SEASON, LIMIT TO 25% OF AREA. IF MOWING DURING INACTIVE SEASON LIMIT TO 50% OF AREA.
- MOWING STYLE: AVOID FLAIL MOWER HEADS WITH GUIDE BARS THAT RIDE ALONG THE GROUND. SICKLE BAR MOWERS WILL HAVE THE LEAST IMPACT IF MOWING EVERY 1-5 YEARS. IN AREAS WITH MORE WOODY VEGETATION > 1-2" DIAMETER BRONTOSAURUS--STYLE MOWER WILL LIKELY HAVE THE LEAST IMPACT ON TURTLES.
- MOWING HEIGHT: IF MOWING DURING ACTIVE SEASON, RETENTION OF MOWING STUBBLE TO 7-12 INCHES WILL REDUCE MORTALITY, REDUCE BLADE WEAR, AND WILL LEAVE IMPORTANT COVER FOR ANIMALS.
- DIRECTIONALITY - IF MOWING DURING THE ACTIVE SEASON IS NECESSARY, START MOWING FROM THE CENTER OF THE FIELD AND USE A BACK-AND-FORTH APPROACH, OR LARGE CIRCULAR PATTERN, TO AVOID CONCENTRATING FLEING ANIMALS WHERE THEY MAY BE KILLED OR STRANDED. IN ADDITION, LEAVE AN UNMOWED 30 FT STRIP AROUND THE PERIMETER OF THE FIELD AND MOW THIS AREA LAST. MOST TURTLES AREA FOUND IN THESE AREAS AND THIS PROVIDES TIME FOR THEM TO REACT TO THE MOWING ACTIVITY AND MOVE OUT OF THE AREA.
- IF FIELD IS NEAR A STREAM: START MOWING THE SIDE FURTHEST FROM STREAM AND WORK TOWARDS THE STREAM.
- IF FIELD IS BORDERED BY WOODLAND: START MOWING SIDE FURTHEST FROM WOODLAND AND WORK TOWARDS WOODLAND.
- IF FIELD IS BORDERED BY ROAD, START MOWING NEXT TO THE ROAD AND WORK YOUR WAY ACROSS THE FIELD.
- MOWER SPEED - MOWING IN LOW GEAR OR AT SLOW SPEEDS WILL ALLOW TURTLES TO REACT AND MOVE OUT OF THE FIELD.
- UNMOWED EDGE - LEAVING AN UNMOWED FIELD EDGE IN HIGH TURTLE USE AREAS UNTIL AFTER SEPTEMBER 15TH. EASTERN BOX TURTLES ARE USUALLY ALONG FIELD EDGES ADJACENT TO FOREST AND WOOD TURTLE AREA OFTEN IN FIELD EDGES CLOSEST TO NEARBY STREAMS.
- LANDSCAPE PLANNING: USE PARTNERSHIPS AND LANDSCAPE SCALE PLANNING TO PROTECT IMPORTANT CONSERVATION AREAS FOR THIS SPECIES.
- NESTING AREA MANAGEMENT: IDENTIFY AND PROTECT NESTING AREAS FOR THIS SPECIES. WORK WITH BIOLOGISTS TO PLAN YOUR SITE USE AND NESTING SITE MANAGEMENT.



- INSTALLATION NOTES:**
- AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
  - MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.
  - UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAW BALES, THEN STABILIZED WITH VEGETATION OR COVERED.

TYPICAL TOPSOIL STOCKPILE  
NOT TO SCALE

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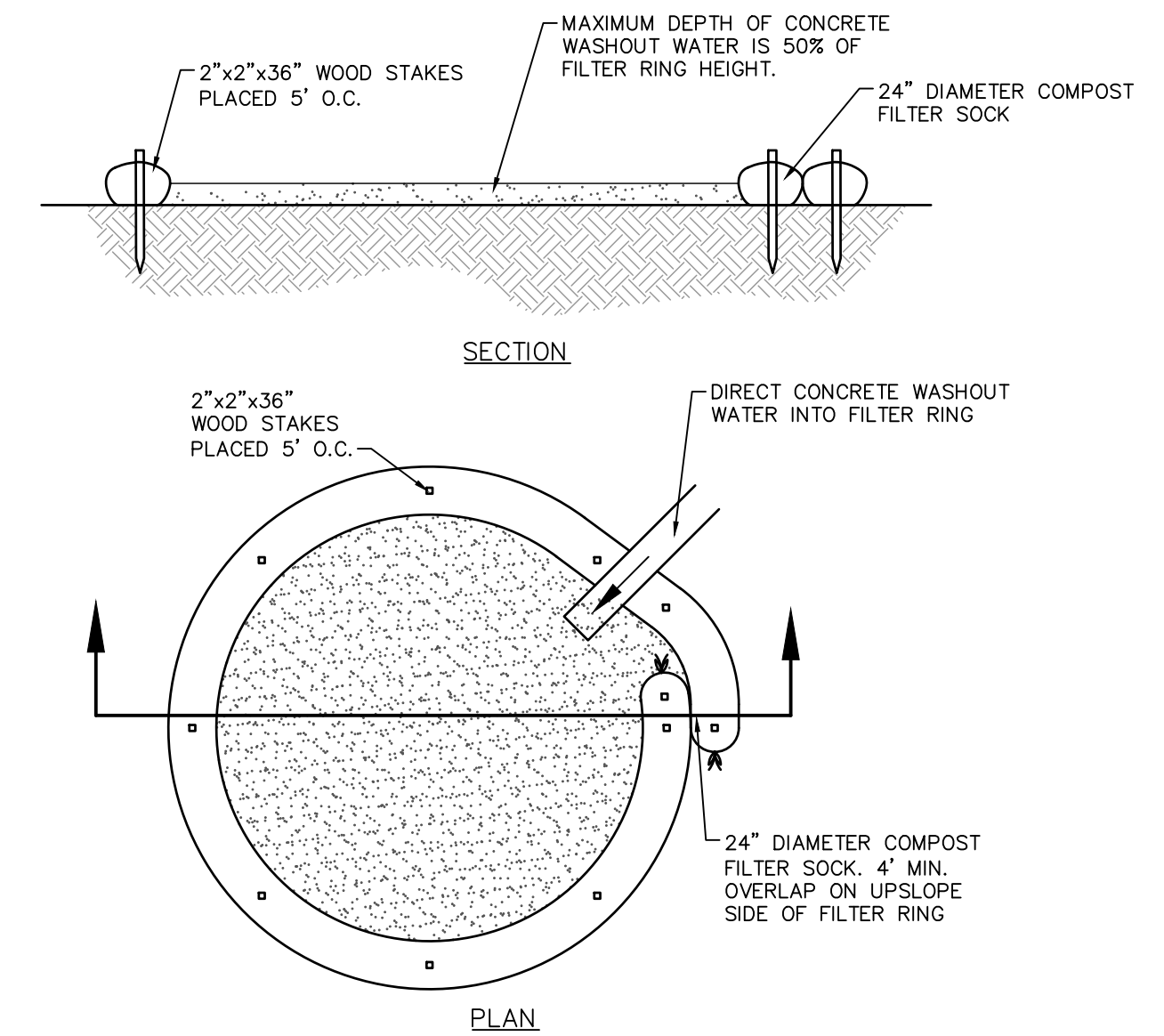
Project Name:  
**CT SOLAR PDF, LLC**

Project Number:  
**07522001**

Scale: AS SHOWN      Drawn By: DK  
Date: JUNE 2023      Checked By: CWC/SML

Drawing Description:  
**EROSION & SEDIMENT POLLUTION CONTROL NOTES & DETAILS**

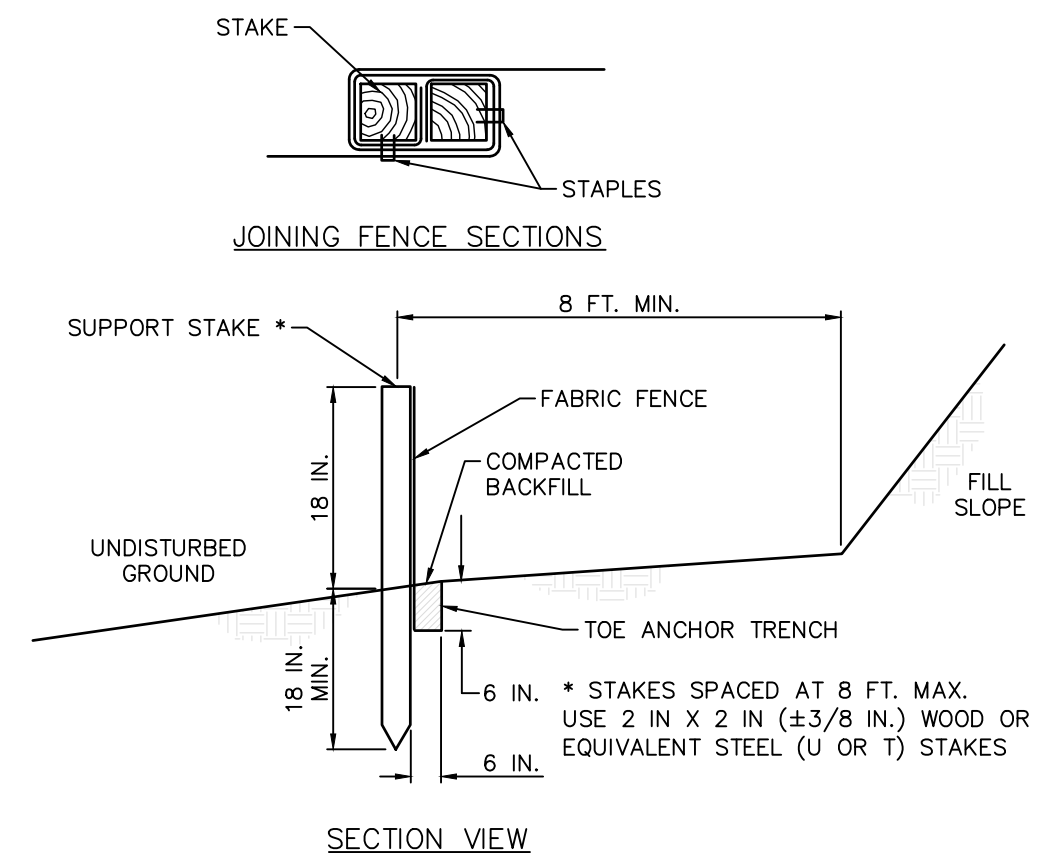
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Sheet Number:  
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**NOTES:**  
 1. INSTALL ON FLAT GRADE FOR OPTIMUM PERFORMANCE.  
 2. 18" DIAMETER FILTER SOCK MAY BE STACKED ONTO DOUBLE 24" DIAMETER SOCKS IN PYRAMIDAL CONFIGURATION FOR ADDED HEIGHT.  
 3. A SUITABLE IMPERVIOUS GEOMEMBRANE SHALL BE PLACED AT THE LOCATION OF THE WASHOUT PRIOR TO INSTALLING THE SOCKS.

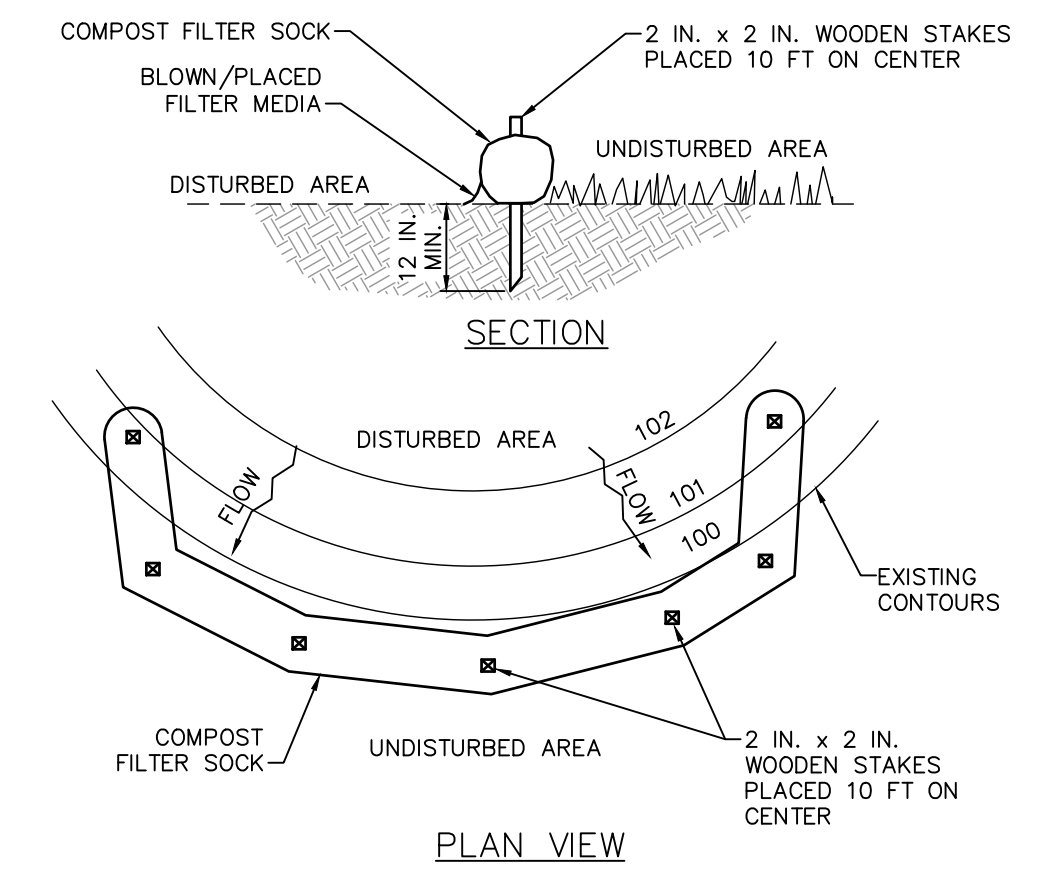
**MAINTENANCE:**  
 1. ALL CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY. DAMAGED OR LEAKING WASHOUTS SHOULD BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.  
 2. ACCUMULATED MATERIALS SHOULD BE REMOVED WHEN THEY REACH 75% CAPACITY.  
 3. PLASTIC LINERS SHOULD BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.

**CONCRETE WASHOUT**  
 NOT TO SCALE



**NOTES:**  
 1. FABRIC WIDTH SHALL BE 30 IN. MINIMUM. STAKES SHALL BE HARDWOOD OR EQUIVALENT STEEL (U OR T) STAKES.  
 2. SILT FENCE SHALL BE PLACED AT LEVEL EXISTING GRADE. BOTH ENDS OF THE FENCE SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT.  
 3. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATIONS REACH HALF THE ABOVE GROUND HEIGHT OF THE FENCE.  
 4. ANY SECTION OF SILT FENCE WHICH HAS BEEN UNDERMINED OR TOPPED SHALL BE IMMEDIATELY REPLACED WITH A ROCK FILTER OUTLET.  
 5. FENCE SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN TRIBUTARY AREA IS PERMANENTLY STABILIZED.

**STANDARD SILT FENCE (18" HIGH)**  
 NOT TO SCALE



**NOTES:**  
 COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE. BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.  
 TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.  
 ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.  
 COMPOST FILTER SOCKS SHALL BE INSPECTED WEEKLY AND AFTER EACH RUNOFF EVENT. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 24 HOURS OF INSPECTION.  
 BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS. PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.  
 UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED. THE SOCK MAY BE LEFT IN PLACE AND VEGETATED OR REMOVED. IN THE LATTER CASE, THE MESH SHALL BE CUT OPEN AND THE MULCH SPREAD AS A SOIL SUPPLEMENT.

**COMPOST FILTER SOCK**  
 NOT TO SCALE

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