# TOWN OF MONTVILLE TOWN BOAT LAUNCH IMPROVEMENTS AND FISHING PIER CONSTRUCTION

55 Dock Road Uncasville, Connecticut 06382

Prepared For:
TOWN OF MONTVILLE



Revised: June 16, 2022 May 2022

CLA Engineers, Inc.
CIVIL · STRUCTURAL · SURVEYING

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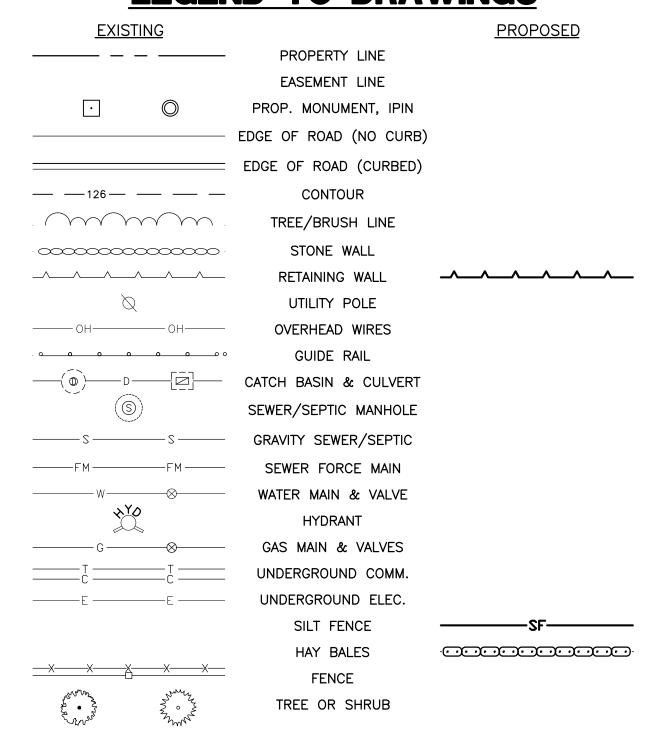
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**Construction Details & Notes** 

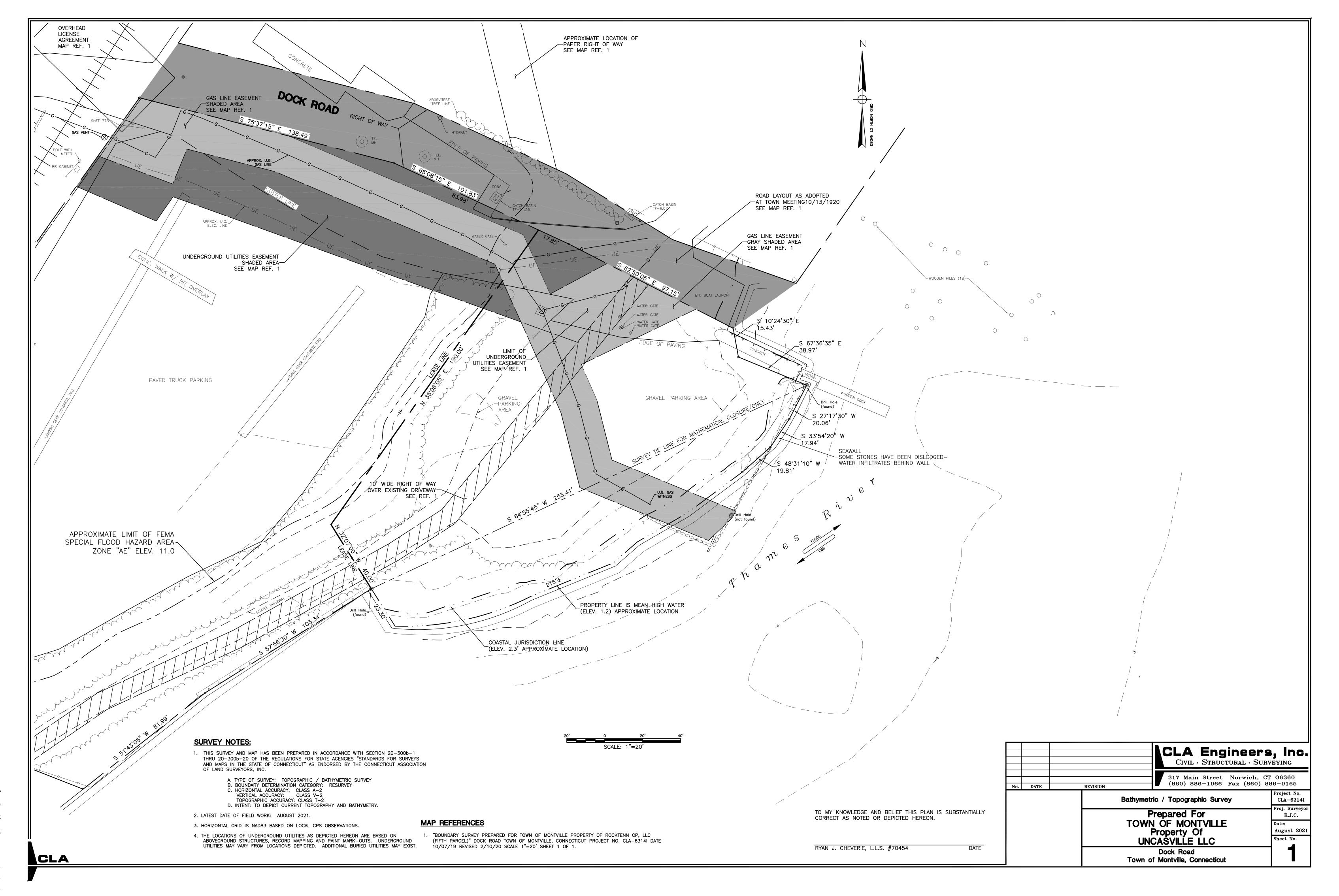
# **LEGEND TO DRAWINGS**

9-10

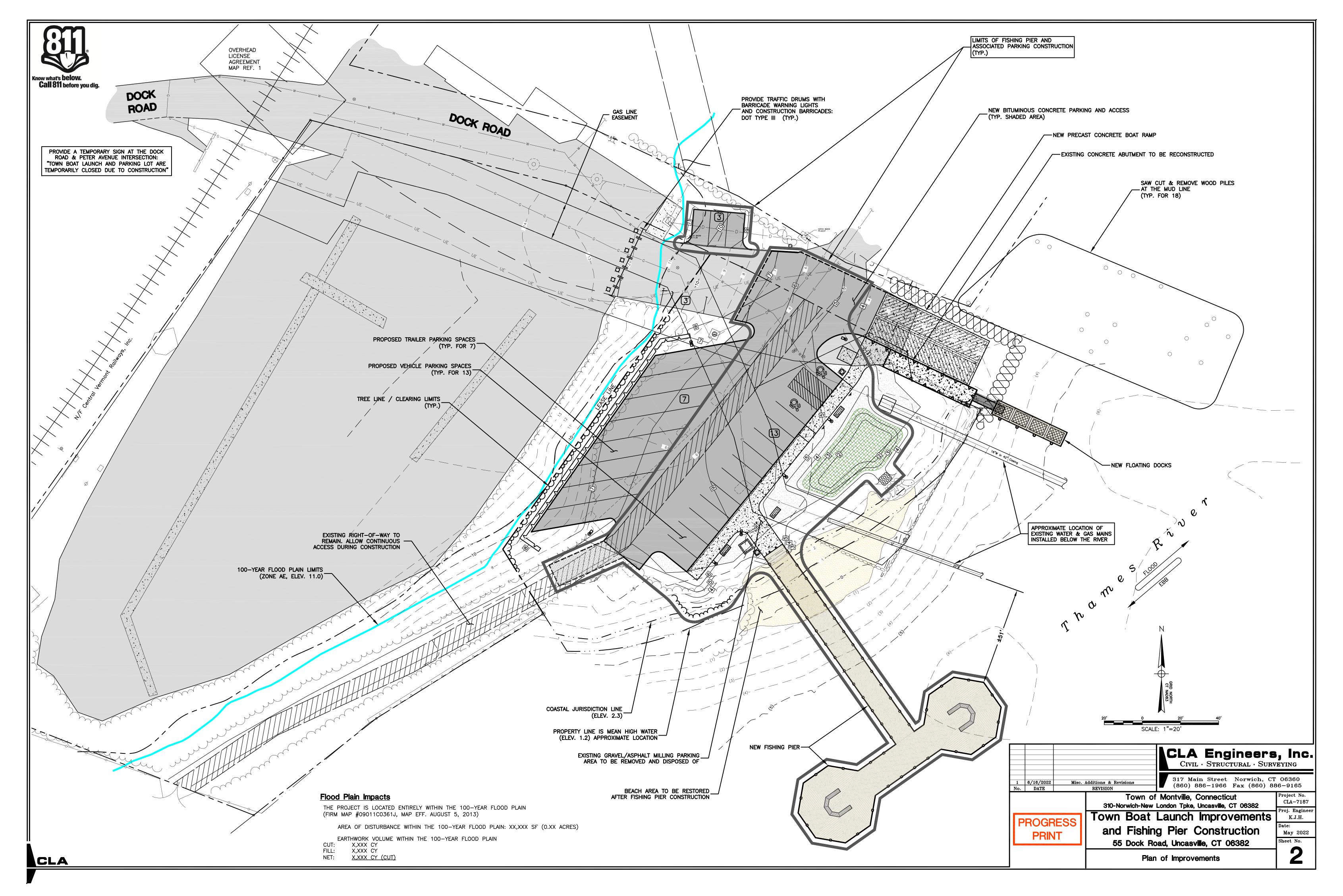


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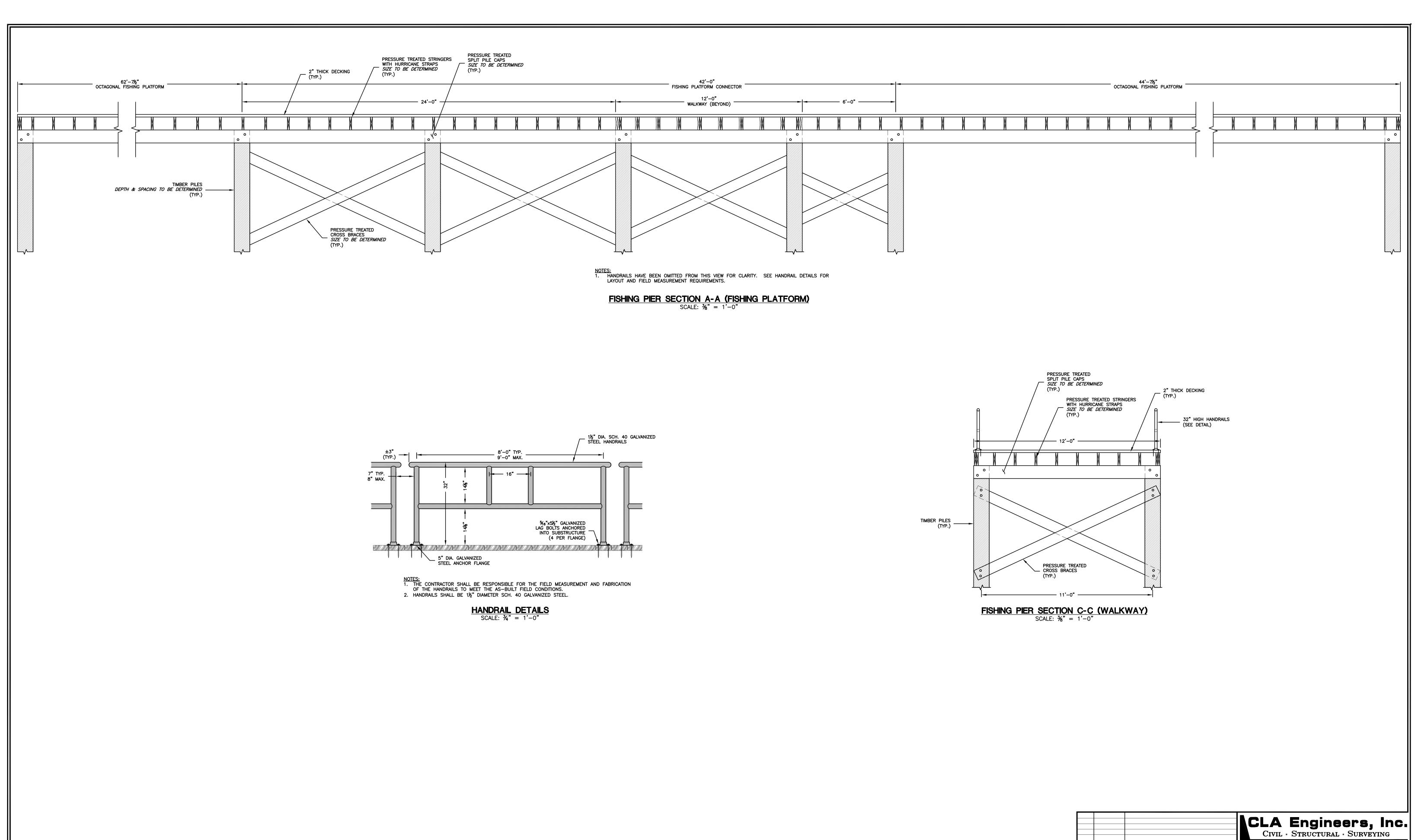
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M:\7000\7100\7187 Fishing Pier\Drawings\CLA-7187 - Montville Boat Launch and Fishing Pier - Sheet 02-07 Site Plan.dv



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- 2. THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL MEASURES ARE SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDED SILT FENCE, STONE CHECK DAMS AND/OR OTHER EROSION CONTROL MEASURES AS NEEDED OR DIRECTED BY THE ENGINEER OR TOWN STAFF TO ADEQUATELY PREVENT SEDIMENT TRANSPORT.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO SITE DISTURBANCE.
- THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURES EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT. SEDIMENT DEPOSITS MUST BE REMOVED WHEN WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE

CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.

5. STAKED HAY BALE SILT BARRIERS OR SILT FENCE SHALL BE INSTALLED AROUND ANY TEMPORARY STOCKPILE AREAS. TEMPORARY VEGETATIVE COVER MAY BE REQUIRED (SEE NOTE).

BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE

- CONTINUOUS DUST CONTROL USING WATER, CALCIUM CHLORIDE OR APPROVED EQUAL SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, EXCAVATIONS, SURFACES OF BACKFILLED TRENCHES AND GRAVELED ROADWAY SURFACES.
- 7. IF DEWATERING IS NECESSARY DURING ANY TIME OF CONSTRUCTION A CLEAR WATER DISCHARGE SHALL BE PROVIDED AS PROPOSED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. TRENCH DEWATERING SHALL NOT DISCHARGE DIRECTLY TO WETLANDS. WATER SHALL BE DISCHARGED TO THE STABILIZED SETTLING BASIN(S).
- 8. ALL DISTURBED AREAS SHALL BE RESTORED PER THE SLOPE STABILIZATION AND PERMANENT VEGETATION DETAILS. ALL DISTURBED AREAS THAT ARE SLOPED LESS THAN THREE HORIZONTAL TO ONE VERTICAL (3:1) SLOPE SHALL BE LOAMED. SEEDED. FERTILIZED AND MULCHED PER THE PERMANENT VEGETATIVE COVER SPECIFICATIONS. EROSION CONTROL MATTING OR HYDROSEEDING SHALL BE PROVIDED ON ALL DISTURBED AREAS THAT ARE SLOPED THREE HORIZONTAL TO ONE VERTICAL (3:1) OR STEEPER.
- 9. IF FINAL SEEDING OF DISTURBED AREAS IS NOT TO BE COMPLETED BEFORE OCTOBER 15, THE CONTRACTOR SHALL PROVIDE TEMPORARY MULCHING (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY PERMANENT SEEDING.
- 10. WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISHED GRADED SHALL BE COMPLETED PRIOR TO OCTOBER 15.
- 11. ANY EROSION WHICH OCCURS WITHIN THE DISTURBED AREAS SHALL BE IMMEDIATELY REPAIRED AND STABILIZED. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT SHALL BE RETURNED TO THE SITE. POST SEEDING, INTERCEPTED SEDIMENT, IF ANY, SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE TOWN AND ENGINEER.
- 12. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS RE-ESTABLISHED OR SLOPES ARE STABILIZED AND REMOVAL IS APPROVED BY THE TOWN.
- 13. UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED ACCORDING TO THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" BY THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION IN COOPERATION WITH THE CONNECTICUT
- 14. THE CONTRACTOR SHALL PROVIDE THE NAME AND EMERGENCY CONTACT INFORMATION FOR THE PROJECT PERSONNEL RESPONSIBLE FOR EROSION AND SEDIMENTATION CONTROLS TO THE TOWN PRIOR TO THE START OF CONSTRUCTION.

NOTE: THE CONTRACTOR SHALL CONTINUALLY STORE THE FOLLOWING MATERIALS ONSITE DURING CONSTRUCTION

- \* 100 LF OF SILT FENCE
- \* 10 HAY BALES \* 10 CY OF WOOD CHIPS OR CRUSHED STONE

TO MEET UNEXPECTED EROSION NEEDS

### TEMPORARY SEDIMENT TRAP TO WATER QUALITY BASIN CONVERSION

THE STORMWATER BASINS ARE LOCATED AT LOW POINTS IN THE DEVELOPED PORTION OF THE SITE TOPOGRAPHY AND PORTIONS OF THEM WILL BE USED DURING CONSTRUCTION AS TEMPORARY SEDIMENT TRAPS. THE TRAPS WILL BE EXCAVATED TO THE DESIGN DEPTH PRIOR TO THE COMMENCEMENT OF OTHER SITE GRADING. THE TRAP SHALL BE STABILIZED WITH TEMPORARY SEED MIX OR A 3" THICKNESS OF 34" CRUSHED STONE. THE LEVEL SPREADER WILL BE CONSTRUCTED AND STABILIZED WITH RIPRAP.

1. THE TRAPS WILL BE INSPECTED AT LEAST ONCE PER WEEK AND WITHIN 24 HOURS AFTER ANY RAINFALL OF 0.5 INCHES OR GREATER.

- 2. THE SEDIMENT TRAPS WILL BE CLEANED WHEN SEDIMENT ACCUMULATION EXCEEDS ONE HALF OF THE AVAILABLE WET STORAGE CAPACITY. SEDIMENTS REMOVED FROM THE SEDIMENT TRAPS WILL BE PLACED OUTSIDE OF THE UPLAND REVIEW ZONE IN THE DESIGNATED STOCKPILE AREA.
- 3. PRIOR TO COMPLETING THE BASINS, EXISTING SEDIMENT LOCATED IN THE BASIN BOTTOM IS TO BE REMOVED.
- 4. THE TRAP SHALL BE EXCAVATED TO A SUFFICIENT DEPTH TO INSTALL THE PERVIOUS TOPSOIL MIX. PERVIOUS TOPSOIL MIX SHALL BE INSTALLED TO THE FINISHED GRADE.
- 5. IMMEDIATELY FOLLOWING THE BACKFILLING, THE BASIN SHALL BE SEEDED AND PLANTINGS
- 6. A MINIMUM OF 6" OF TOPSOIL SHALL BE INSTALLED ON THE REMAINING DISTURBED AREAS AREAS PLANTED WITH SEED MIXES AND VEGETATION IN ACCORDANCE WITH THE LANDSCAPE

### STORMWATER MANAGEMENT & POLLUTION PREVENTION PLAN

DURING CONSTRUCTION

1. POLLUTION PREVENTION TEAM:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CARRYING OUT THE PROVISIONS OF THIS PLAN. THE OWNER WILL PROVIDE OVERSIGHT AND MONITOR THE CONTRACTOR'S ACTIVITIES.

SWEEPING: IMPERVIOUS SURFACES WITHIN AND BEYOND THE WORK SITE SHALL BE SWEPT CLEAN OF SAND, SILT AND LITTER DAILY AT THE END OF THE WORK DAY.

<u>OUTSIDE STORAGE:</u> ACCESSORIES OR EQUIPMENT STORED OUTSIDE SHALL BE COVERED OR MAINTAINED TO MINIMIZE POSSIBILITY OF THESE MATERIALS OR THEIR RESIDUE PASSING TO STORM WATER.

WASHING: NO WASHING OF VEHICLES, ACCESSORIES, EQUIPMENT OR APPLIANCES IN WORK SITE.

MAINTENANCE AND INSPECTION:

A. THE CONTRACTOR SHALL INSPECT, REPAIR AND/OR REPLACE EROSION CONTROL MEASURES EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY RAINFALL OF 0.25" OR MORE AND AFTER SNOW MELT.

B. SEDIMENT DEPOSITS MUST BE REMOVED WHEN WHEN DEPOSITS REACH APPROXIMATELY ONE

- HALF THE HEIGHT OF THE BARRIER. C. DAILY DUST CONTROL USING WATER, OR APPROVED EQUAL SHALL BE PROVIDED FOR ALL EARTH STOCKPILES, EARTH PILED ALONG EXCAVATIONS, SURFACES OF BACKFILLED TRENCHES AND GRAVELED SURFACES.
- A. REFUELING OF VEHICLES AND EQUIPMENT SHALL TAKE PLACE WITHIN THE WORK AREA AND SHALL BE DONE A MINIMUM OF 100-FEET UPGRADE OF THE EDGE OF RIVER.
- <u>SPILLS OR ACCIDENTAL DISCHARGES:</u>
  A. A SPILL CONTAINMENT KIT SUITABLE FOR OIL AND WATER BASED PRODUCTS SHALL BE MAINTAINED ONSITE AT ALL
- B. COMPLY WITH STATE AND FEDERAL REGULATIONS TO CONTAIN AND CLEAN UP ANY SPILL OR DISCHARGE AND DISPOSE OF MATERIALS AT AN APPROVED FACILITY.
- C. CONTACT CONNECTICUT DEEP OIL AND CHEMICAL SPILL RESPONSE DIVISION (860) 424-3338 THE FOLLOWING STEPS SHOULD BE PERFORMED AS SOON AS POSSIBLE:

REFUELING SHALL BE DONE OVER A TEMPORARY PORTABLE SPILL CONTAINMENT BERM.

- a. STOP THE SOURCE OF THE SPILL b. CONTAIN THE SPILL
- c. COVER SPILL WITH ABSORBENT MATERIAL FROM THE SPILL KIT OR OTHER ABSORBENT MATERIAL SUCH AS
- KITTY LITER, OR SAWDUST. DO NOT USE STRAW. d. DISPOSE OF ABSORBER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.

### TEMPORARY VEGETATIVE COVER

A TEMPORARY SEEDING OF RYE GRASS WILL BE COMPLETED WITHIN 15 DAYS OF THE FORMATION OF STOCKPILES. IF THE SOIL IN THE STOCKPILES HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS IT SHALL BE LOOSENED TO A DEPTH OF 2 INCHES BEFORE THE FERTILIZER, LIME AND SEED IS APPLIED. 10-10-10 FERTILIZER AT A RATE OF 7.5 POUNDS PER 1000 S.F. LIMESTONE AT A RATE OF 90 LBS. PER 1000 S.F. SHALL BE USED. RYE GRASS APPLIED AT A RATE OF 1 LB. PER 1000 S.F. SHALL PROVIDE THE TEMPORARY VEGETATIVE COVER. STRAW FREE FROM WEEDS AND COARSE MATTER SHALL BE USED AT A RATE OF 70-90 LBS. PER 1000 S.F. AS A TEMPORARY MULCH. APPLY MULCH AND DRIVE TRACKED EQUIPMENT UP AND DOWN SLOPE OVER ENTIRE SURFACE SO CLEAT MARKS ARE PARALLEL TO THE CONTOURS.

### PERMANENT VEGETATIVE COVER

TOPSOIL WILL BE REPLACED ONCE THE EXCAVATIONS HAVE BEEN COMPLETED AND THE SLOPES ARE GRADED AS SHOWN ON THE PLANS. PROVIDE SLOPE PROTECTION AS CALLED FOR ON THE PLANS AND DETAILS. TOPSOIL SHALL BE SPREAD AT A MINIMUM COMPACTED DEPTH OF 6 INCHES. ONCE THE TOPSOIL HAS BEEN SPREAD, ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION WILL BE REMOVED AS WELL AS DEBRIS.

- APPLY AGRICULTURAL GROUND LIMESTONE AT THE RATE OF TWO TONS PER ACRE OR 100 LBS. PER 1000 S.F.
- APPLY 10-10-10 FERTILIZER OR EQUIVALENT AT A RATE OF 300 LBS. PER ACRE OR 7.5 LBS. PER 1000 S.F.
- WORK LIMESTONE AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES. INSPECT SEEDBED BEFORE SEEDING.
- IF TRAFFIC HAS COMPACTED THE SOIL, RETILL COMPACTED AREAS. - APPLY THE FOLLOWING GRASS SEED MIX:

### TYPICAL SEED MIXTURE

ALL DISTURBED AREAS	LBS./ACRE	<u>LBS./1000 S.F</u>
KENTUCKY BLUEGRASS	20	0.45
CREEPING RED FESCUE	20	0.45
PERENNIAL RYEGRASS	5	0.10
	45	1.00

### TYPICAL SEED MIXTURE FOR NON-MOWED SLOPES (3:1 OR STEEPER)

CI DEP SEED MIX NO. 26	LBS./ACRE	<u>LBS./1000 S.F</u>
SWITCHGRASS (BLACKWELL, SHELTER, CAVE-IN-ROCK)	4.0	0.10
BIG BLUESTEM (NIAGRA, KAW)	4.0	0.10
LITTLE BLUESTEM (BLAZE, ALDOUS, CAMPER)	2.0	0.05
SAND LOVEGRASS (NE-27, BEND)	1.5	0.03
BIRD'S-FOOT TREFOIL (EMPIRE VIKING)	2.0	0.05
	13.5	0.33

### TYPICAL SEED MIXTURE FOR WATER QUALITY BASIN - SEE BELOW

THE RECOMMENDED SEEDING DATES ARE: APRIL 1 - JUNE 15 AND AUGUST 15 - OCTOBER 15

IMMEDIATELY FOLLOWING SEEDING, FIRM SEED BED WITH A ROLLER AND MULCH WITH WEED FREE STRAW. IF PERMANENT VEGETATIVE COVER IS HAS NOT BEEN ESTABLISHED BY OCTOBER 15, APPLY A TEMPORARY VEGETATIVE COVER ON THE TOPSOIL.

### VEGETATIVE COVER WATER QUALITY BASINS

NOT TO SCALE

SEED MIXTURE FOR SETTLING BASINS SHALL BE THE "NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR MOIST SITES" FROM NEW ENGLAND WETLAND PLANTS, AMHERST, MA. TELEPHONE NO. 413-548-8000

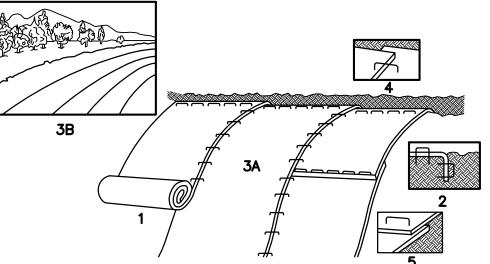
THE BEST RESULTS ARE OBTAINED WITH A SPRING SEEDING. SUMMER AND FALL SEEDING REQUIRE A LIGHT MULCHING OF WEED FREE STRAW TO CONSERVE MOISTURE. LATE FALL AND WINTER DORMANT SEEDING REQUIRE A 10% INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOILS ARE PARTICULARLY INFERTILE. LBS./ACRE LBS./1000 S.F.

0.80

### WATER QUALITY SEED MIXTURE

NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES

SPECIES: Virginia Wild Rye, (Elymus virginicus), Creeping Red Fescue, (Festuca rubra), Little Bluestem, (Schizachyrium scoparium), Big Bluestem, (Andropogon gerardii), Fox Sedge, (Carex vulpinoidea), Switch Grass, (Panicum virgatum), Rough Bentgrass, (Agrostis scabra), New England Aster, (Aster novae—angliae), Boneset, (Eupatorium perfoliatum), Grass Leaved Goldenrod, (Euthamia graminifolia), Green Bulrush, (Scirpus atrovirens), Blue Vervain, (Verbena hastata), Soft Rush, (Juncus effusus). Wool Grass, (Scirpus cyperinus)



INSTALLATION NOTES:

1. PROVIDE 4" THICKNESS OF TOPSOIL OVER CLEAN FILL. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED MIX PER PERMANENT VEGETATIVE COVER NOTES. (SHALL BE PAID FOR AT THE UNIT PRICE FOR LOAM, SEED, FERTILIZE & MULCH)

- 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP x 6" WIDE TRENCH, BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. ROLL THE BLANKET (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVE WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED
- AREA, APPROXIMATELY 12" APART. PRODUCT NOTES:

  1. EROSION CONTROL MATTING MUST BE LISTED ON THE LATEST CT DOT QUALIFIED PRODUCTS LIST UNDER CLASS I: SLOPE PROTECTION, TYPE D.

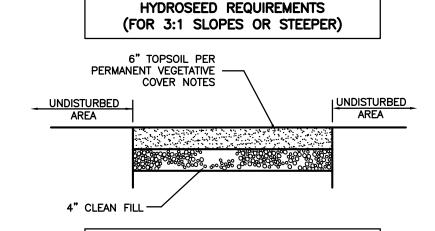
HYDROSEED SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 9.50.3.6 OF DOT FORM 818. 2. BONDED FIBER MATRIX (BFM) OR FLEXIBLE GROWTH MEDIUM (FGM) MUST BE INCLUDED IN THE HYDROSEED SLURRY. MIX RATE PERCENTAGES SHALL BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS FOR THE FINISHED SLOPES. THE FOLLOWING ARE

EROSION CONTROL MATTING DETAIL

(FOR 3:1 SLOPES OR STEEPER)

ACCEPTABLE PRODUCTS:
PROFILE FLEXTERRA FGM
PROFILE HYDRO-BLANKET BONDED FIBER MATRIX
MAT, INC. SOIL GUARD BONDED FIBER MATRIX

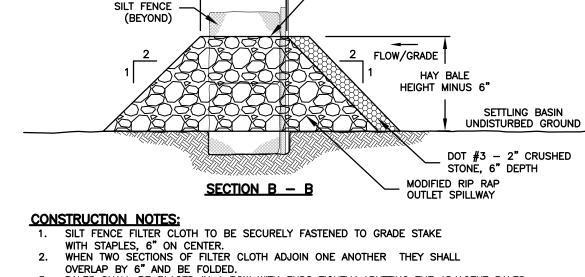
NORTH AMERICAN GREEN HYDRA GT OR HYDRA CM
 THE REQUIRED SEED MIX SHALL BE IN ACCORDANCE WITH THE PERMANENT VEGETATIVE COVER NOTES. ALL APPLICATION RATES SHALL BE INCREASED BY 10% FOR HYDROSEEDING.
 THE CONTRACTOR SHALL ENSURE 100% COVERAGE OF THE DISTURBED SOIL.



(FOR ALL DISTURBED AREAS) SLOPE STABILIZATION DETAILS

NOT TO SCALE

TYPICAL LOAM & SEED SECTION DETAIL



FLOW/GRADE

**PLAN VIEW** 

SECTION A - A

MODIFIED RIP RAP

INSTALL FILTER FABRIC

AROUND ENTIRE INSIDE

**OUTLET SPILLWAY** 

MODIFIED RIP RAP PER

- 2"x2"x4' WOOD STAKE

FILTER FABRIC WITH WOVEN

- WIRE FENCE, INDUSTRIAL NETTING,

OR SNOW FENCE FOR SUPPORT

OR TWINE (TYP.)

MODIFIED RIPRAF PLACE AS SHOWN

✓ OUTLET SPILLWAY

ON UPHILL SIDE OF

BARRIER TO PREVENT

DOT M.12.02 (TYP.)

3. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.

A CLEAR WATER DISCHARGE SHALL BE PROVIDED AS FOLLOWS:

1. PUMP INLET SHALL BE PROTECTED WITH FILTER FABRIC & CRUSHED STONE.

STRAW HAY BALE

PUMP DISCHARGE PIPE

STRAW HAY BALE

TWO - 2"x2"x4' STAKES

TWO BALES HIGH MAX.

WEDGE LOOSE STRAW

CREATE A CONTINUOUS

BETWEEN BALES TO

FILTER FABRIC AND

HAYBALE SHALL BE PLACED 4" BELOW

HAY BALES AND

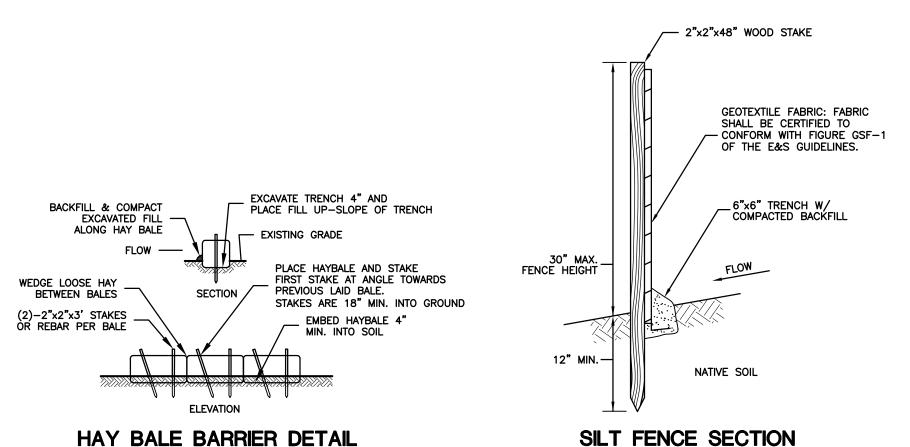
IN EACH BALE (TYP.)

TWO - 2"x2"x4' STAKES -IN EACH BALE (TYP.)

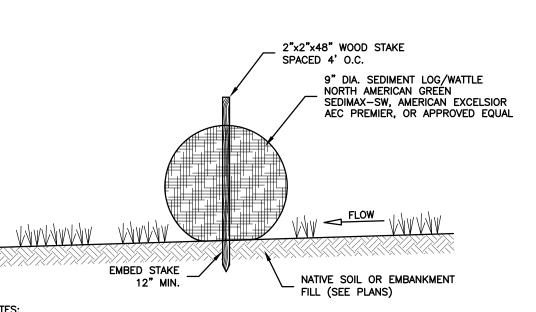
- PUMP SHALL BE STAGED OUTSIDE OF WETLANDS.

  THE WATER SHALL BE PUMPED TO A DEWATERING STRUCTURE WHICH SHALL BE LOCATED AT LEAST 50 FEET FROM ANY REGULATED WETLAND AREA OR AS SHOWN ON THE PLANS.
- 4. THE DEWATERING STRUCTURE SHALL BE SIZED TO ACCOMMODATE PUMP DISCHARGE RATE: REQUIRED VOLUME (C.F.) = PUMP DISCHARGE (G.P.M.) x 16
  THE DEWATERING STRUCTURE SHALL DISCHARGED TO A VEGETATED AREA.
  ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN AND PROPERLY DISPOSED OF WHEN ACCUMULATION REACHES HALF OF THE REQUIRED STORAGE VOLUME.
- DEWATERING AREA SHALL BE RESTORED WITH NEW ENGLAND EROSION CONTROL SEED MIX.

HAY BALE BARRIER DE-WATERING DETAIL NOT TO SCALE



NOT TO SCALE



STORMWATER LOG ENDS SHALL BE TIED TOGETHER, OVERLAPPED AT LEAST 24" OR BE SECURED AS RECOMMENDED BY THE MANUFACTURER. STORMWATER SEDIMENT LOG (WATTLE) DETAIL

ACLA Engineers, Inc. CIVIL · STRUCTURAL · SURVEYING 317 Main Street Norwich, CT 06360 1 6/16/2022 No. DATE Misc. Additions & Revisions (860) 886-1966 Fax (860) 886-9165

**PROGRESS PRINT** 

Town of Montville, Connecticut 310-Norwich-New London Tpke, Uncasville, CT 06382 Town Boat Launch Improvements

and Fishing Pier Construction 55 Dock Road, Uncasville, CT 06382

Stormwater Management Plan and **Erosion & Sedimentation Control Details** 

CLA-7187

roj. Enginee:

K.J.H.

May 2022

**ICLA** 

THE PROPOSED DEVELOPMENT IS A RECONSTRUCTION OF AN EXISTING MUNICIPAL BOAT LAUNCH AND ASSOCIATED SITE IMPROVEMENTS AS SHOWN ON THE PLANS.

THE PROPOSED PROJECT WILL DISTURB APPROXIMATELY 0.7 ACRES.

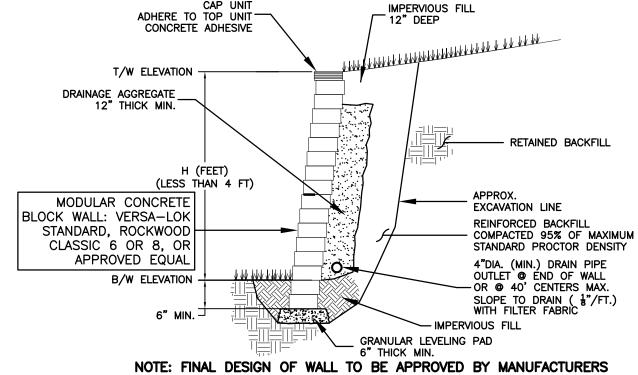
- 1. THE THAMES RIVER IS A TIDAL RIVER.
- . WORK WILL BE PERFORMED BELOW THE CTDEEP COASTAL JURISDICTION LINE (EL. 2.3).
- . THERE ARE NO INLAND WETLANDS ONSITE.
  . THE PROJECT IS LOCATED ENTIRELY WITHIN THE 100—YEAR FLOOD PLAIN
- (FIRM MAP #09011C0361J, MAP EFF. AUGUST 5, 2013)
  5. THE PROJECT IS LOCATED ENTIRELY WITHIN A CT DEEP NATURAL DIVERSITY DATABASE AREA.
- THE PROJECT IS LOCATED ENTIRELY WITHIN THE COASTAL MANAGEMENT AREA.

  NO PORTION OF THE LOT LIES WITHIN THE AQUIFER PROTECTION AREA

### GENERAL NOTES

- 1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VISIT THE SITE TO VERIFY EXISTING CONDITIONS.
- 2. EXISTING PROPERTY LINES AND RIGHT-OF-WAY LINES WHERE SHOWN ARE APPROXIMATE AND ARE INTENDED FOR GENERAL INFORMATION ONLY.
- 3. EXISTING GROUND LINE AS SHOWN ON THESE PLANS IS BASED ON FIELD SURVEY PERFORMED BY CLA ENGINEERS INC.
- 4. CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 811 AT LEAST TWO FULL WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- 5. INFORMATION SHOWN ON THE DRAWINGS RELATING TO MATERIALS, CONDITIONS, AND/OR LOCATIONS OF EXISTING STRUCTURES AND UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING FIELD SURVEY, UTILITY COMPANY AND TOWN RECORD MAPS AND DRAWINGS, AND IS NOT GUARANTEED ACCURATE OR COMPLETE. ALL UTILITIES SHALL BE LOCATED IN THE FIELD BY THE CONTRACTOR. NEITHER THE OWNER NOR THE ENGINEER WARRANTS OR GUARANTEES THE CONDITIONS SHOWN ON THE PLANS.
- 6. THE CONTRACTOR SHALL EXCAVATE TEST PITS AS NEEDED OR AS DIRECTED BY THE OWNER TO VERIFY EXISTING UTILITY INFORMATION AND LOCATIONS.
- 7. MAINTENANCE AND PROTECTION OF TRAFFIC:
- A. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF TRAFFIC, TRAFFIC CONTROL, TEMPORARY SIGNING OR BARRICADES, AND TEMPORARY LANE CLOSURES. CONTINUOUS ACCESS FOR BUSES AND EMERGENCY VEHICLES SHALL BE MAINTAINED AT ALL TIMES.
- B. PASSAGE OF TRAFFIC ON ROADWAYS: A MINIMUM OF ONE LANE FOR TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL PERFORM HIS OPERATIONS TO MINIMIZE DISRUPTIONS TO TRAFFIC WITHIN THE PROJECT SITE.
- C. RESIDENTS OR BUSINESSES WITH DRIVES AFFECTED BY CONSTRUCTION SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 HOURS BEFORE CONSTRUCTION BEGINS
- AND SHALL BE ALLOWED CONTINUOUS ACCESS TO THEIR PROPERTY.

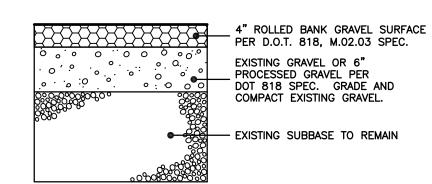
  THE WORK AREA SHALL BE CLOSED TO ALL TRAFFIC AS SHOWN ON THE PROJECT PLANS. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TEMPORARY SIGNS, BARRICADES, AND FACILITIES NECESSARY TO TEMPORARILY CLOSE THE SITE.
- 8. CONSTRUCTION SIGNS MUST CONFORM TO THE SIGNING REQUIREMENTS OUTLINED IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)". ALL SIGN FACES SHALL BE REFLECTORIZED.
- 9. ALL PROPOSED WORK MAY BE VARIED IN THE FIELD BY THE OWNER TO MATCH EXISTING CONDITIONS.
- 10. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS AND ACTIVITIES FOR CONSTRUCTION PURPOSES WITHIN THE STREET LINES AND/OR EASEMENTS AS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING PAVEMENT, ROADWAY, SIDEWALKS, ETC., OUTSIDE OF THE WORK AREA AND SHALL REPAIR SUCH DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
- 11. UPON COMPLETION OF THE WORK, ALL DISTURBED AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTED PRIOR TO CONSTRUCTION.
- 12. ALL STREET SIGNS, MAILBOXES, PLANTINGS, ORNAMENTAL OBJECTS, LIGHTS, LANDSCAPE SHRUBBERY, ETC., SHALL BE PROTECTED FROM DAMAGE AND SHALL BE REPLACED IN THE SAME OR BETTER CONDITION BY THE CONTRACTOR IF DISTURBED OR DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION.
- 13. RESIDENTS WITH DRIVES AFFECTED BY CONSTRUCTION SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST 48 HOURS BEFORE CONSTRUCTION BEGINS AND SHALL BE ALLOWED ACCESS TO THEIR PROPERTY.
- 14. THE CONTRACTOR SHALL MAINTAIN A SET OF RECORD DRAWINGS WHICH SHALL BE SUBMITTED TO THE ENGINEER AT THE COMPLETION OF THE PROJECT.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESETTING TO GRADE ALL FRAMES, GRATES, COVERS, VALVE BOXES, ACCESS COVERS, AND ALL OTHER ITEMS WHICH NORMALLY MUST HAVE A FIXED RELATION TO FINISHED GRADE.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TEMPORARY AND PERMANENT SUPPORT OF ALL EXISTING UTILITY POLES IN AN ADJACENT TO THE CONSTRUCTION AREA AND SHALL COMPLY WITH ALL THE REQUIREMENTS AND SPECIAL DETAILS FOR THE SUPPORT OF UTILITIES REQUIRED BY UTILITY AGENCIES. ALL COSTS FOR TEMPORARILY SUPPORTING UTILITY POLES DURING CONSTRUCTION SHALL BE INCLUDED IN OTHER ITEMS.
- 17. IF BLASTING IS PERFORMED A PRE-BLAST SURVEY WILL BE REQUIRED. ANY AND ALL BLASTING SHALL CONFORM TO THE REGULATIONS SET FORTH BY THE TOWN AND SHALL BE APPROVED BY THE APPROPRIATE TOWN AGENCIES AND ADJACENT UTILITY OWNERS.
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SURVEY AND STAKEOUT AS THEY NEED. SURVEY BASE INFORMATION AND LAYOUT WILL BE PROVIDED TO THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION.
- 19. MATERIAL STOCKPILE AND STAGING AREAS: STOCKPILE AND STAGING AREAS ARE SHOWN ON THE PROJECT PLANS. IF ADDITIONAL AREA IS REQUIRED THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ADDITIONAL STOCKPILE, MATERIAL STORAGE AND EQUIPMENT STORAGE AREAS. PRIOR TO THE START OF CONSTRUCTION THE CONTRACTOR SHALL IDENTIFY THESE AREAS AND PROVIDE EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED.
- 20. <u>DISPOSAL OF CONSTRUCTION MATERIALS:</u> CONTRACTOR IS ADVISED TO PAY PARTICULAR ATTENTION TO PROVISIONS OF SPECIAL CONDITIONS OF THE SPECIFICATIONS IN PREPARATION OF HIS BID. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL BE REQUIRED TO IDENTIFY ALL LOCATIONS WITHIN THE TOWN TO BE USED FOR DISPOSAL OF UNSUITABLE CONSTRUCTION MATERIALS.
- 21. CLEARING AND GRUBBING: ALL TREES, BRUSH, VEGETATION, ETC. SHALL BE CUT DOWN BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL GIVE ABUTTING PROPERTY OWNERS THE OPPORTUNITY TO TAKE CUT WOOD FOR THEIR PRIVATE USE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE ALL REMAINING STUMPS, CUT-UP TREES & LIMBS, ETC. WITHIN THE CONTRACT LIMITS. CONTRACTOR SHALL PROTECT REMAINING TREES FROM DAMAGE DURING CONSTRUCTION. TREES UNNECESSARILY CUT OR DAMAGED BY THE CONTRACTOR'S FORCES SHALL BE REPLACED, OF COMPARABLE SIZE AND TYPE, BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 22. PERMANENT PAVEMENT MARKINGS SHALL CONFORM WITH ARTICLE 12.10 OF THE DOT FORM 818 SPECIFICATIONS.
- 23. ALL WORK TO CONFORM TO THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 818, DATED JULY 2021, AS REVISED.



ENGINEER PRIOR TO INSTALLATION.

CONCRETE BLOCK RETAINING WALL

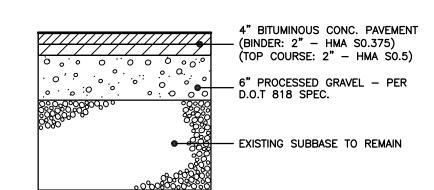
NOT TO SCALE



NOTES:

1. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL WHEN TESTED IN ACCORDANCE WITH AASHTO T180, METHOD D

TYPICAL GRAVEL DRIVE SECTION DETAIL



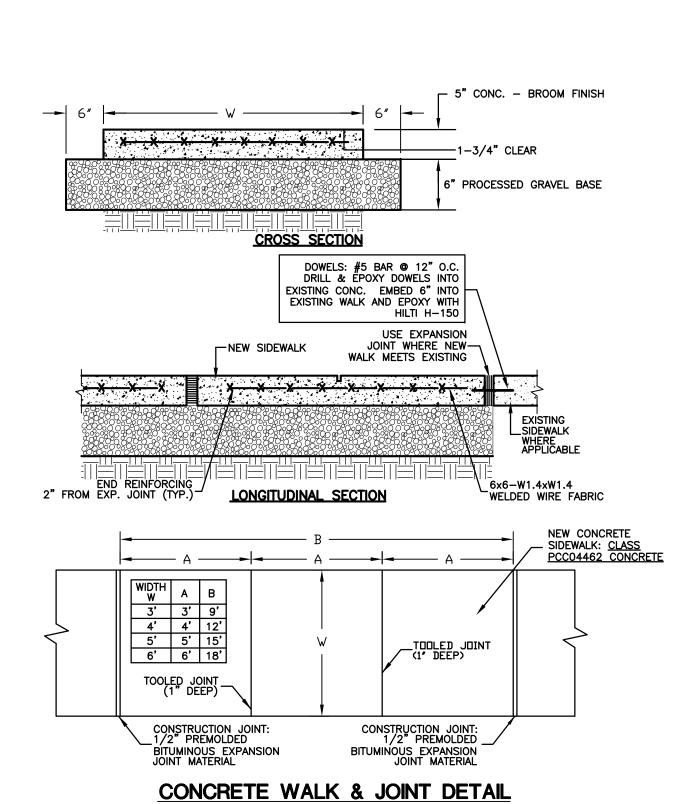
NOTES:

1. PROVIDE CONTINUOUS TACK COAT ALONG EDGE WHEN MATCHING EXISTING PAVEMENT

2. CONTRACTOR TO PROVIDE COMPACTION ON ALL TRENCH BACKFILLS, EXCAVATIONS AND PAVEMENT BASES TO NOT LESS THAN 95% OF THE DRY DENSITY FOR THAT MATERIAL WHEN TESTED IN ACCORDANCE WITH AASHTO T180, METHOD D

TYPICAL PAVEMENT SECTION DETAIL

NOT TO SCALE



RAIN GARDEN BOTTOM (FLAT) OVERFLOW UNIFORM PITCH (3:1 MIN.) TO RAIN GARDEN <u>PLAN</u> HRUBS AS CALLED (TYP.) BITUMINOUS DRIVEWAY OF GRASS SWALE OVERFLOW BERM: ±3-6" HT. (SEE PLANS) UNIFORM PITCH TO RAIN GARDEN MULCH AROUND PLANTINGS SIDE SLOPES (3:1 MIN.) STANDARD SEE MIX OR MULCH - PERVIOUS TOPSOIL MIX EXISTING SUBSOIL PERVIOUS TOPSOIL MIX SHALL MEET THE REQUIREMENTS OF DOT FORM 817, ARTICLE M.13.01.1 WITH THE FOLLOWING GRADATION: 60-80% 5% DO NOT COMPACT MATERIAL DURING INSTALLATION.

EXCAVATE RAIN GARDEN TO THE GRADES SPECIFIED WITH SIDEWALLS AS NEAR TO VERTICAL AS POSSIBLE. INSTALL PERVIOUS TOPSOIL MIX. DO NOT COMPACT TOPSOIL MIX. SEED MIX SHALL CONFORM THE REQUIREMENTS SPECIFIED IN THE VEGETATIVE COVER NARRATIVE HEREIN. INSTALL SHRUBS AND ALL PLANTINGS IN CONFORMANCE WITH THE CONSTRUCTION DETAILS AND LANDSCAPING NOTES HEREIN. LANDSCAPE SCHEDULE:
1. EACH WATER QUALITY BASIN SHALL BE PLANTED IN ACCORDANCE WITH THE LANDSCAPE SCHEDULE. TYPICAL MAINTENANCE:

1. MOW BOTTOM, AS NEEDED. REPLENISH MULCH AROUND PLANTINGS YEARLY, AS NEEDED. REMOVE SEDIMENT AND LEAF LITTER TWICE YEARLY BETWEEN NOVEMBER 15 AND DECEMBER 15 (AFTER LEAF FALL) B. DURING APRIL (AFTER SNOW MELT)

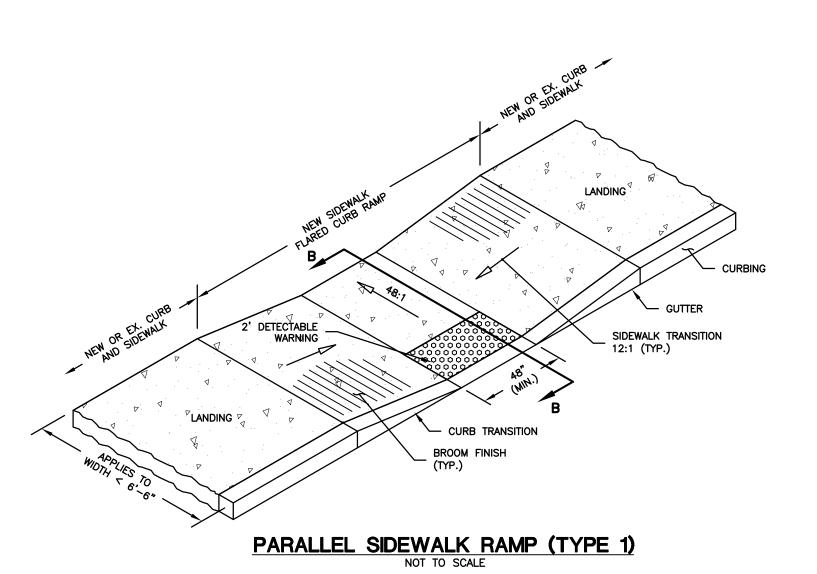
DRIVEWAY WIDTH + 2'

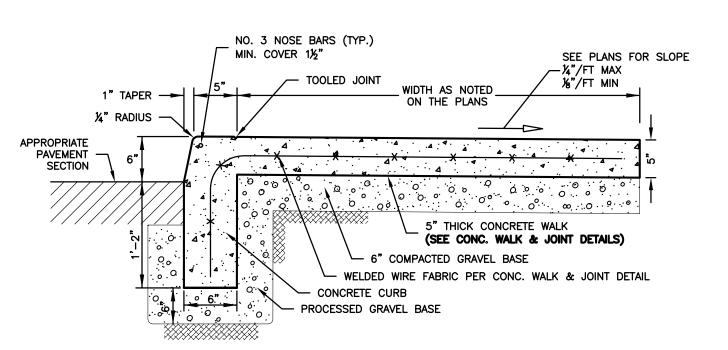
OR 12' (TYP.) OR SEE PLAN

GRASS GROUND COVER OR MULCH AROUND PLANTINGS

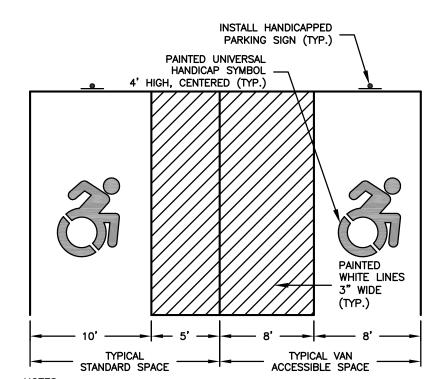
TYPICAL WATER QUALITY BASIN DETAILS

NOT TO SCALE





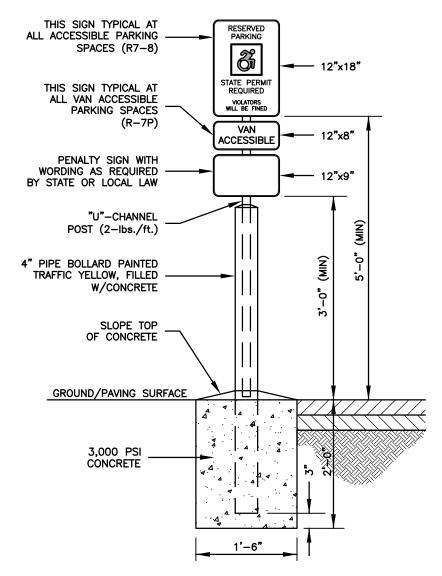
SINGLE POUR CONCRETE CURB & SIDEWALK



NOTES:

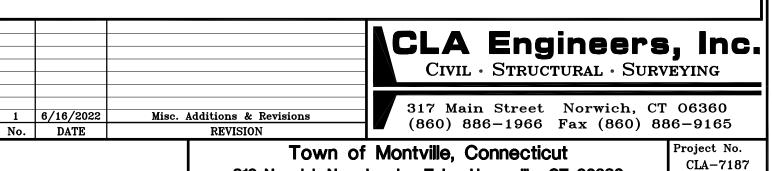
1. ALL ADA ACCESSIBLE SIGNING, DIMENSIONS AND SPACE MARKINGS
SHALL BE IN ACCORDANCE WITH CGS 14-253az(h) AND THE 2003
PORTION OF THE STATE BUILDING CODE

ADA ACCESSIBLE PARKING SPACE DETAIL



ADA ACCESSIBLE PARKING SIGN DETAIL

NOT TO SCALE



Town Boat Launch Improvements
and Fishing Pier Construction
55 Dock Road, Uncasville, CT 06382

Construction Details & Notes

**PROGRESS** 

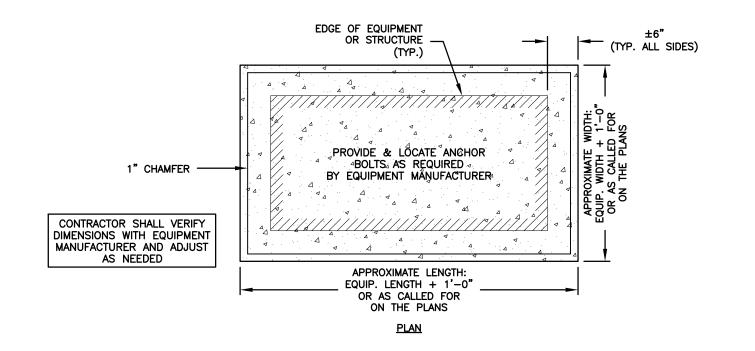
**PRINT** 

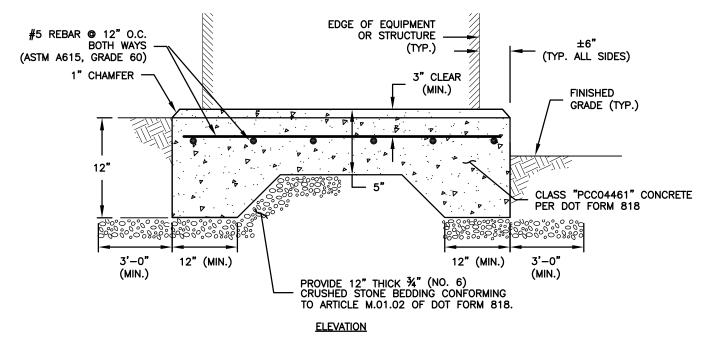
May 2022
Sheet No.

roj. Enginee:

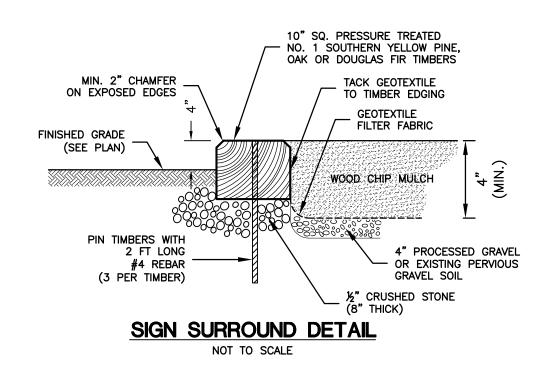
K.J.H.

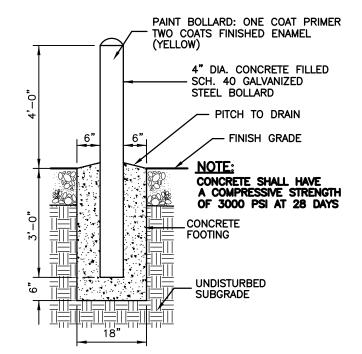






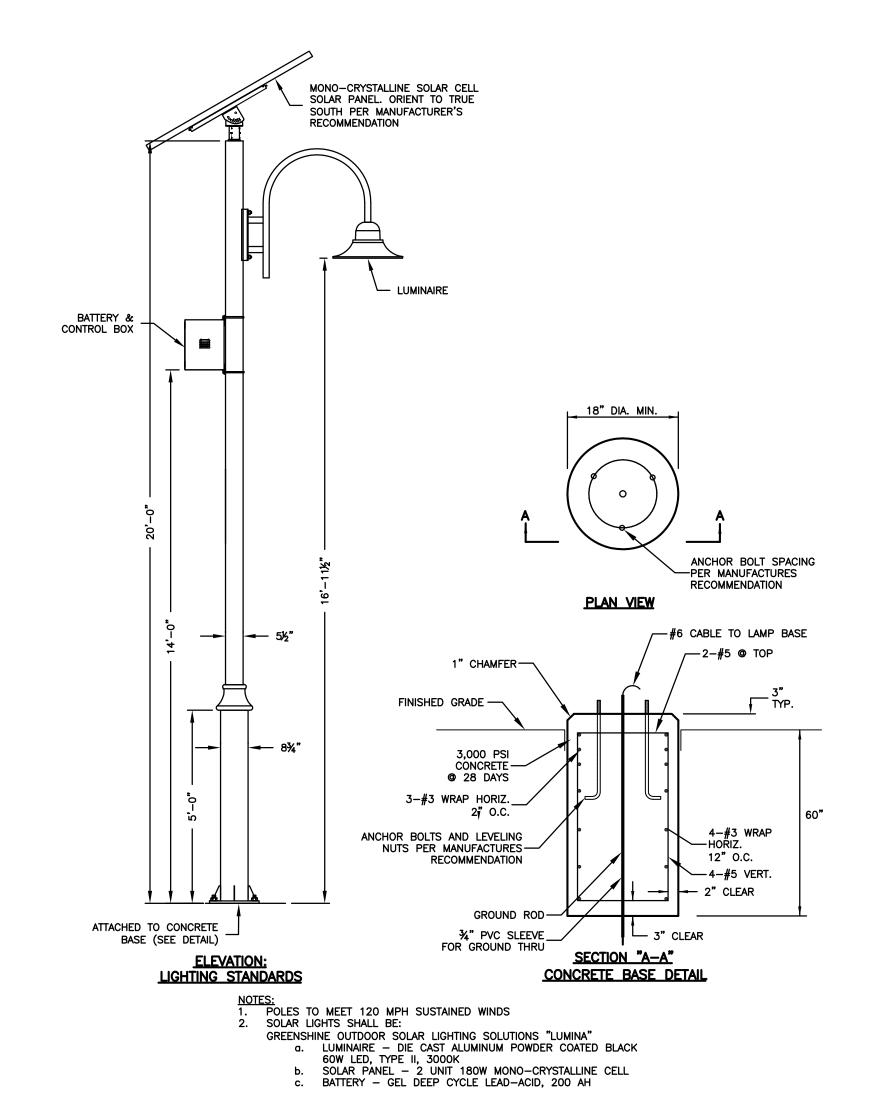
TYPICAL REINFORCED CONCRETE PAD DETAIL





REMOVABLE BOLLARD DETAIL

NOT TO SCALE



SOLAR SITE LIGHTING DETAILS

NOT TO SCALE

