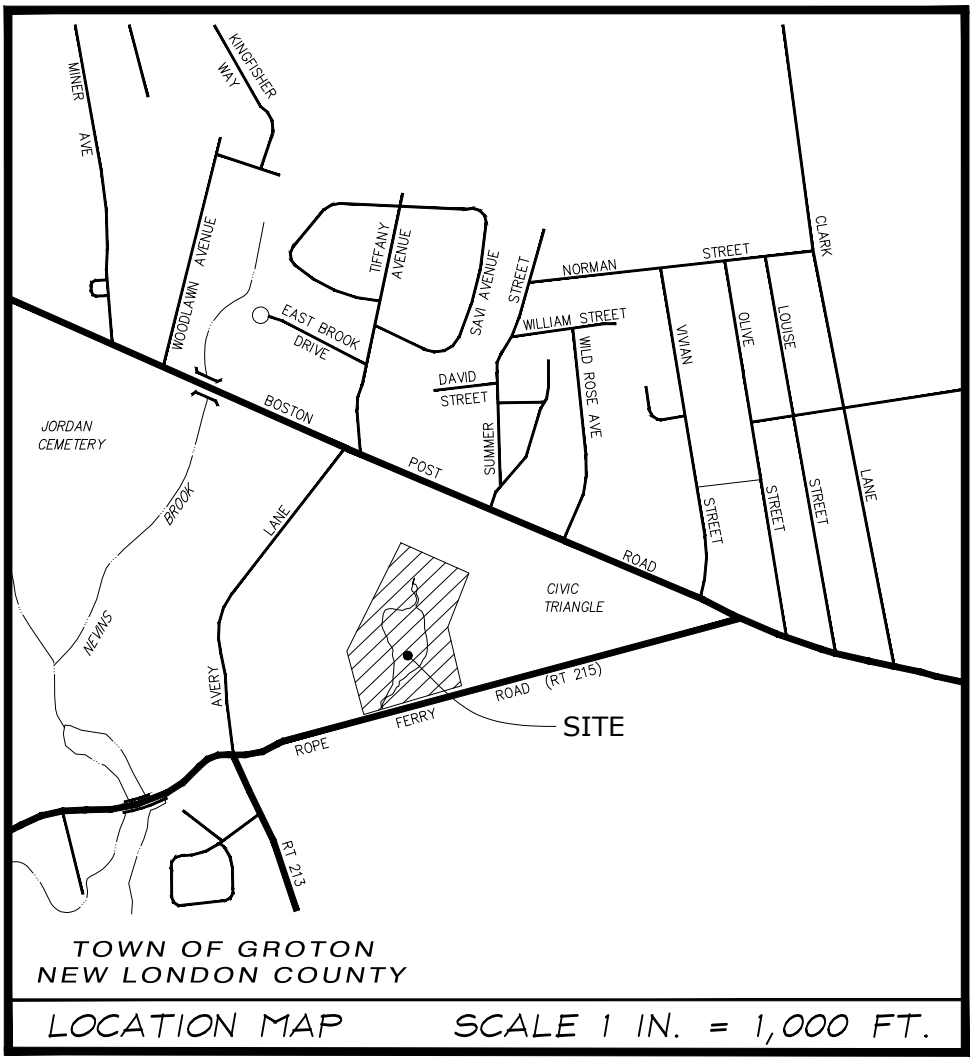




WATERFORD CIVIC TRIANGLE

UNIVERSAL ACCESS & POND IMPROVEMENTS

WETLANDS PERMIT SUBMISSION
AUGUST 23, 2022

Drawing Legend

Landscape Drawings

- D-4.06A Existing Conditions Survey
- D-4.06B Existing Conditions Survey
- L-1.0 Project Notes
- L-1.1 Project Notes
- L-2.0 Erosion and Sediment Control Plan
- L-2.1 Erosion and Sediment Control Details
- L-3.0 Site Demolition
- L-4.0 Site Improvements
- L-5.0 Site Grading
- L-5.2 Pond Dredging Base Bid
- L-5.3 Pond Dredging Add. Alternate
- L-5.4 Pond Sections
- L-5.5 Wetland Disturbance
- L-8.0 Site Planting
- L-8.1 Site Details

Civil Drawings

- C1 Sediment Forebay Improvement Plan

PREPARED FOR:
TOWN OF WATERFORD
615 ROPE FERRY ROAD
WATERFORD, CT 06385

PREPARED BY:

LANDSCAPE
KENT+FROST
ARCHITECTURE
1 HIGH STREET
MYSTIC, CT 06355
860.572.0784
kentfrost.com

Site Design / Project Lead

YRC
YANTIC RIVER
CONSULTANTS, LLC
191 NORWICH AVENUE
LEBANON, CT 06249
(860) 367-7264

Civil Engineer

e2 engineers
structural engineers
239R bank street, new london, connecticut 06320
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Structural Engineering

DOWN TO EARTH
CONSULTING, LLC
GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING
122 Church Street
Naugatuck, CT 06770
203-231-1061

Geotechnical Engineering

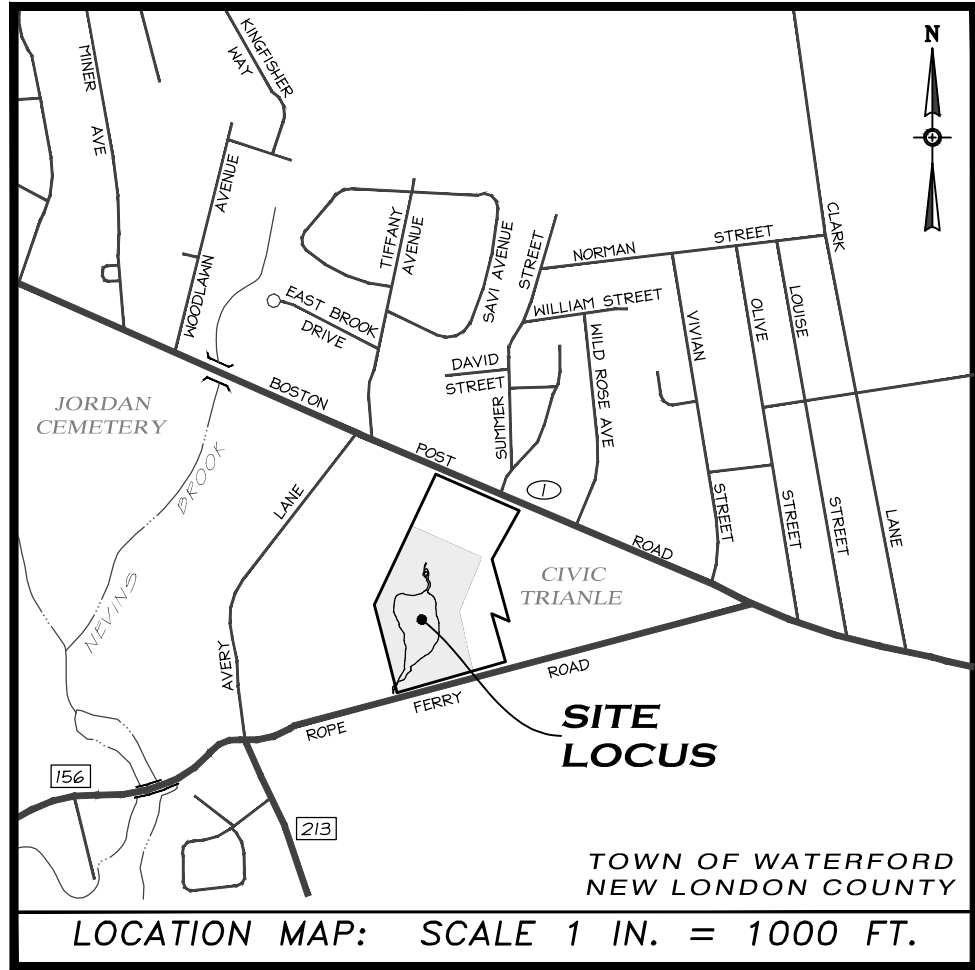


New England Environmental Services
Richard Snarski
155 Jerry Daniels Road
Marlborough, CT 06447
860-918-1970

Wetland Soil Scientist

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New London, Connecticut 06320
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E-Mail: info@stadiaeng.com

Site Survey



ABBREVIATIONS

N/F NOW OR FORMERLY
VOL VOLUME
PG PAGE
W/F WOOD FRAME
B/M BRICK & MORTAR
M/F METAL FRAME
STY STORY
FF FINISHED FLOOR
AC ACRES
SQ. FT. SQUARE FEET
LF LINEAR FEET
± MORE OR LESS
TYP TYPICAL
IP IRON PIPE
IR IRON PIN
RB REBAR
NR NOT RECOVERED
REC RECOVERED
CT CONNECTICUT
ACOE ARMY CORPS OF ENGINEERS
CMP CORRUGATED METAL PIPE
PVC POLYVINYL CHLORIDE PIPE
RCP REINFORCED CONCRETE PIPE
INV INVERT
T/F TOP OF FRAME
C/CONC CONCRETE
P/MT PAVEMENT
UTY UTILITY
WV WATER VALVE
WM WATER METER

N/F
Other Lands of
Town of Waterford
Public Safety Complex
200 BOSTON POST ROAD

SURVEY NOTES:

- THIS SURVEY HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS PREPARED AND ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.
THE SURVEY WAS PERFORMED TO THE STANDARDS OF ACCURACY FOR A HORIZONTAL CLASS A-2 EXISTING CONDITIONS SURVEY WITH A TOPOGRAPHIC INFORMATION ACCURACY OF CLASS 1-2.
THIS SURVEY WAS PREPARED TO DEPICT THE EXISTING SITE CONDITIONS OF A PORTION OF THE SUBJECT PROPERTY FOR THE DESIGN OF FUTURE SITE IMPROVEMENTS BY OTHERS.
- NO BOUNDARY LINE DETERMINATION DEPICTED HEREON. PROPERTY LINES ARE FOR ORIENTATION PURPOSES ONLY.
- NORTH ORIENTATION DEPICTED HEREON IS REFERENCED TO THE 1983 NORTH AMERICAN DATUM (NAD-83) STATE PLANE COORDINATED SYSTEM BY REAL-TIME GPS OBSERVATIONS OF THE CONTROL MONUMENTATION ON 22 JULY 2021.
- THE TOPOGRAPHIC INFORMATION DEPICTED HEREON IS DERIVED FROM ACTUAL ON THE GROUND LOCATION OF THE EXISTING CONDITIONS AS OBSERVED DURING JULY AND AUGUST OF 2021. VERTICAL INFORMATION DEPICTED HEREON IS REFERENCED TO THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD-88). CGS BENCHMARKS 1133 (ELEV: 43.054 FT) AND CGS BM 3150 (ELEV: 39.58 FT) ARE THE BASE REFERENCE POINTS.
- THE LOCATION OF ANY UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE APPROXIMATE. ADDITIONALLY, OTHER SUCH UNDERGROUND FEATURES MAY EXIST ON THE SITE, THE EXISTENCE OF WHICH ARE UNKNOWN TO STADIA. THE EXISTENCE, SIZE AND LOCATION OF AL SUCH UNDERGROUND FEATURES MUST BE DETERMINED AND VERIFIED IN THE FIELD BY THE APPROPRIATE AGENCY PRIOR TO ANY FUTURE CONSTRUCTION. PRIOR TO ANY EXCAVATION ON OR NEAR THIS SITE, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
- THE SUBJECT PROPERTY KNOWN AS 184 BOSTON POST ROAD WAS CONVEYED TO THE TOWN OF WATERFORD THROUGH A CONVEYANCE DATED ON 01 JANUARY 1900, AND IS RECORDED IN THE TOWN OF WATERFORD LAND RECORDS.
- THE SUBJECT PROPERTY IS ENTIRELY WITHIN ZONE CT (CIVIC TRIANGLE DISTRICT) AS DESCRIBED BY THE MOST CURRENT TOWN OF WATERFORD ZONING MAP (EFFECTIVE DATE: 01 JUNE 2010).
- NO BATHYMETRY FOR PROFILING THE BOTTOM OF DUCK POND WAS LOCATED DURING THE COURSE OF SURVEY.
- INLAND WETLANDS DELINEATED ON-SITE AS PERFORMED BY RICHARD SNARSKI, R.S.S. ON 23 JULY 2021. ARMY CORPS OF ENGINEERS WETLAND FLAGS DELINEATED: JULY 2022
- TOPOGRAPHIC SURVEY FIELD LOCATION EXPANDED IN JULY & AUGUST 2022.

MAP REFERENCES:

- "DUCK POND PROJECT" SCALE: 1 INCH = 40 FEET, DATED: SEPTEMBER 1994, LAST REVISED: 14 JULY 1995, AS PREPARED BY: TOWN OF WATERFORD PUBLIC WORKS DEPARTMENT
- "PROPERTY MAP - CIVIC TRIANGLE - WATERFORD POLICE FACILITY - WATERFORD CONNECTICUT", SCALE: 1 INCH = 100 FEET, DATED: 9 JANUARY 1990, LAST REVISED: 6 AUGUST 1990, AS PREPARED BY: DECARLO & DOLL, INC. - HAMDEN & HEBRON, CONNECTICUT
- "THE TOWN OF WATERFORD - DRAINAGE EASEMENT TO BE ACQUIRED FROM DOUKAS, REGINA B." SCALE: 1 INCH = 40 FEET, DATED: AUGUST 1979, AS PREPARED BY: ANTHONY C. JANOVICZ, LAND SURVEYOR
- "MAP SHOWING PROPERTY OF WATERFORD PUBLIC LIBRARY ASSOCIATION, INC. - ROPE FERRY ROAD - RTE. 156 - WATERFORD, CONN." SCALE: 1 INCH = 40 FEET, DATED: APRIL 1964, AS PREPARED BY: HAROLD B. SMITH - QUAKER HILL, CONNECTICUT
- "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP, TOWN OF WATERFORD - BOSTON POST ROAD, FROM WILD ROSE PLACE - EASTERLY TO WILLETTS AVE. - ROUTE U.S. 1" SCALE: 1 INCH = 40 FEET, DATED: 28 NOVEMBER 1924, LAST REVISED: 14 OCTOBER 1975, AS PREPARED BY: CONNECTICUT STATE HIGHWAY DEPARTMENT
- "CONNECTICUT STATE HIGHWAY DEPARTMENT RIGHT OF WAY MAP, TOWN OF WATERFORD - NANTIC-NEW LONDON ROAD FROM THE FOURTH DISTRICT SCHOOL - EASTERLY TO BOSTON POST ROAD ROUTE NO. 156", SCALE: 1 INCH = 40 FEET, DATED: 31 MAY 1933, AS PREPARED BY: CONNECTICUT STATE HIGHWAY DEPARTMENT

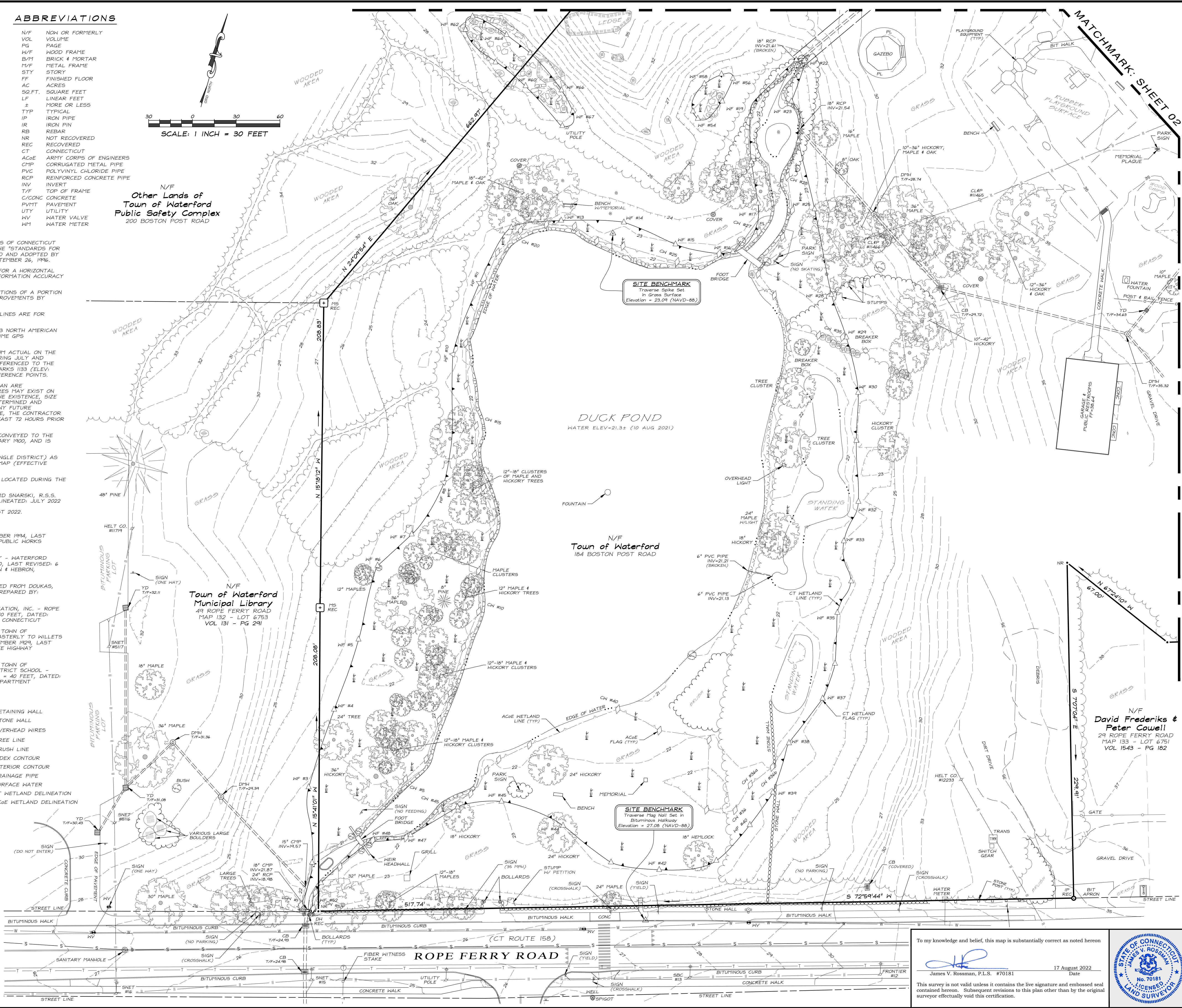
LEGEND

PROPERTY CORNER
ANGLE POINT
SPOT ELEVATION
HYDRANT
WATER VALVE
CATCHBASIN
VEGETATION
SANITARY MANHOLE
DRAINAGE MANHOLE
EXPOSED ROCK
UTILITY POLE
CT WETLAND FLAG
ACOE WETLAND FLAG

RETAINING WALL
STONE WALL
OVERHEAD WIRES
TREE LINE
BRUSH LINE
INDEX CONTOUR
INTERIOR CONTOUR
DRAINAGE PIPE
SURFACE WATER
CT WETLAND DELINEATION
ACOE WETLAND DELINEATION

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PROJECT DATA	
FIELD BOOK	900W No. 47 Pg. 18, 20, 31-35, 38, 41
DWG FILE	21-119 Worksheet - Rev 05a.dwg
LAYOUT TAB	Topographic Survey
SHEET No.	1 OF 2



To my knowledge and belief, this map is substantially correct as noted hereon.

James V. Rossman, P.L.S. #70181

17 August 2022
Date

This survey is not valid unless it contains the live signature and embossed seal contained hereon. Subsequent revisions to this plan other than by the original surveyor effectually void this certification.



1 INCH = 30 FEET

FIELD BOOK: 900W No. 47 Pg. 18, 20, 31-35, 38, 41
DWG BY: A.R. & D.E.
FIELD DATE: AUGUST 2021
PROJECT No.: 2021-119

D-406A

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ENGINEERS • ENVIRONMENTAL PLANNERS • SURVEYORS

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New London 06250
Tel: 860.237.4773
E-Mail: info@stadiaeng.com

EXISTING CONDITIONS SURVEY

DEPICTING THE EXISTING SITE CONDITIONS AND TOPOGRAPHIC FEATURES OF PROPERTY OWNED BY

TOWN OF WATERFORD

PREPARED FOR

KENT + FROST LANDSCAPE ARCHITECTS

184 BOSTON POST ROAD (A.K.A. US HWY #1) - WATERFORD, CONNECTICUT

REVISIONS

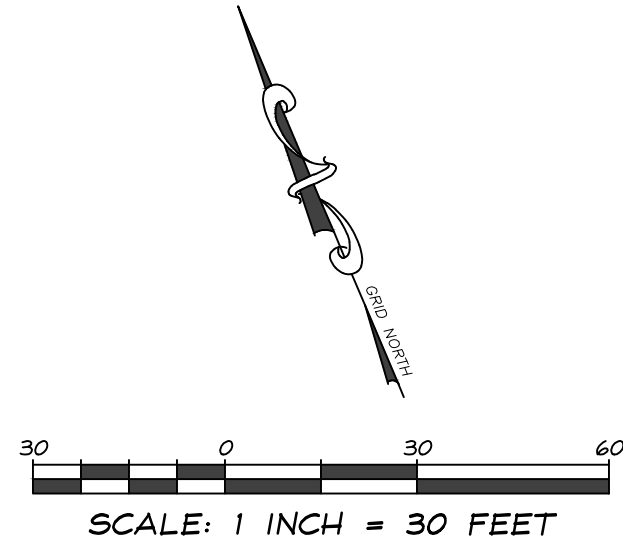
DATE	INITIALS	DESCRIPTION
17 AUG 2022	JR	ACOE WETLANDS & EXPANDED TOPOGRAPHY REVISIONS TO PLAN

PROJECT No. 2021-119

PLOT DATE 17 AUGUST 2022

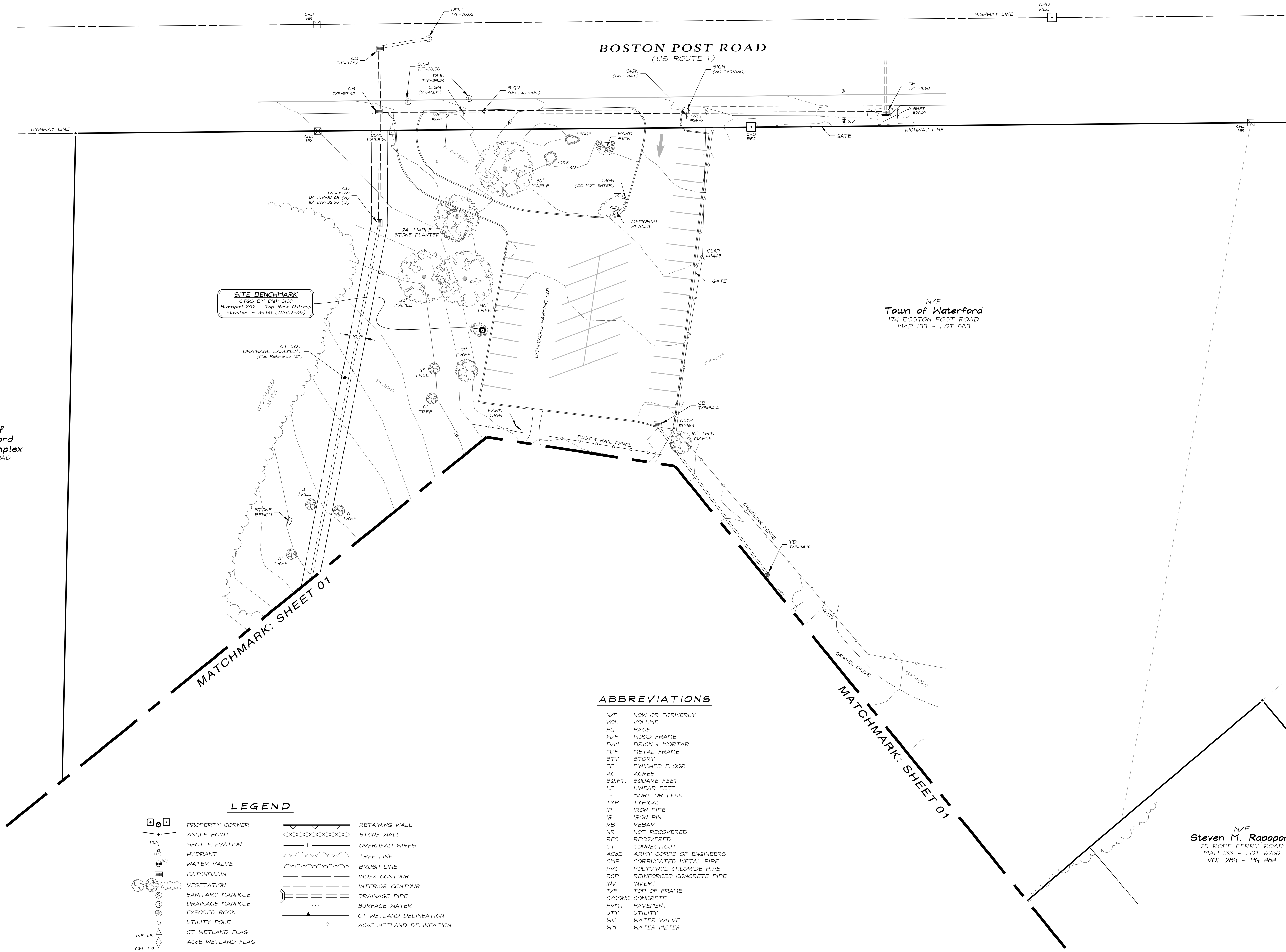
SHEET No. **D-406A**

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PROJECT DATA	
FIELD BOOK	BOOK No. 47 Pg. 16, 20, 31-35, 38, 41
DWG. FILE	21-119 Worksheet - Rev 05a.dwg
LAYOUT TAB	Topographic Survey
SHEET No.	2 OF 2

N/F
Other Lands of
Town of Waterford
Public Safety Complex
200 BOSTON POST ROAD



LEGEND	
	PROPERTY CORNER
	ANGLE POINT
	SPOT ELEVATION
	HYDRANT
	WATER VALVE
	CATCHBASIN
	VEGETATION
	SANITARY MANHOLE
	DRAINAGE MANHOLE
	EXPOSED ROCK
	UTILITY POLE
	CT WETLAND FLAG
	ACoE WETLAND FLAG
	RETAINING WALL
	STONE WALL
	OVERHEAD WIRES
	TREE LINE
	BRUSH LINE
	INDEX CONTOUR
	INTERIOR CONTOUR
	DRAINAGE PIPE
	SURFACE WATER
	CT WETLAND DELINEATION
	ACoE WETLAND DELINEATION

ABBREVIATIONS

N/F	NOW OR FORMERLY
VOL	VOLUME
PG	PAGE
W/F	WOOD FRAME
B/M	BRICK & MORTAR
M/F	METAL FRAME
STY	STORY
FF	FINISHED FLOOR
AC	ACRES
SQ.FT.	SQUARE FEET
LF	LINEAR FEET
±	MORE OR LESS
TYP	TYPICAL
IP	IRON PIPE
IR	IRON RIN
RB	REBAR
NR	NOT RECOVERED
REC	RECOVERED
CT	CONNECTICUT
ACoE	ARMY CORPS OF ENGINEERS
CMP	CORRUGATED METAL PIPE
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
INV	INVERT
T/F	TOP OF FRAME
C/CONC	CONCRETE
PVMT	PAVEMENT
UTY	UTILITY
WV	WATER VALVE
WM	WATER METER

N/F
Town of Waterford
174 BOSTON POST ROAD
MAP 133 - LOT 583

N/F
Steven M. Rapoport
25 ROPE FERRY ROAD
MAP 133 - LOT 6750
VOL 289 - PG 484

N/F
David Frederiks &
Peter Cowell
29 ROPE FERRY ROAD
MAP 133 - LOT 6751
VOL 1543 - PG 182

EXISTING CONDITIONS SURVEY
DEPICTING THE EXISTING SITE CONDITIONS AND TOPOGRAPHIC FEATURES OF
PROPERTY OWNED BY
TOWN OF WATERFORD
PREPARED FOR
KENT + FROST LANDSCAPE ARCHITECTS
184 BOSTON POST ROAD (A.K.A. US HWY #1) - WATERFORD, CONNECTICUT

2021-119

30 SEPTEMBER 2021

D-406B

REVISIONS

DATE	INITIALS	DESCRIPTION
17 Aug 2022	JR	ACOE WETLANDS & EXPANDED TOPOGRAPHY REVISIONS TO PLAN

STADIA
ENGINEERING
ASSOCIATES, INC.
ENGINEERS • ENVIRONMENTAL PLANNERS • SURVEYORS
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E-Mail: info@stadiang.com

1 INCH = 30 FEET
FIELD BOOK
A.R. & D.E.
DWG. BY
AUGUST 2021
D.E.
DWG. DATE
AUGUST 2021
DWG. NO.
D-406B
PROJECT NO.
2021-119

APPROVALS AND REFERENCE

1. NO CONSTRUCTION ACTIVITIES SHALL TAKE PLACE UNTIL THE HEREIN EROSION AND SEDIMENT CONTROL PLAN HAS BEEN REVIEWED AND CERTIFIED BY THE TOWN OF WATERFORD OR ITS DESIGNATED AGENT.
2. ADDITIONAL STATE AND FEDERAL PERMITS MAY BE REQUIRED PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL VERIFY WITH THE TOWN THAT ALL PERMITS HAVE BEEN RECEIVED.
3. THE FOLLOWING STANDARDS OF CARE ARE INCLUDED BY REFERENCE:

• INLAND WETLAND & WATERCOURSE REGULATIONS FOR THE TOWN OF WATERFORD- AS AMENDED

• 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL AND IT'S ERRATA SHEET

• 2004 CONNECTICUT STORMWATER QUALITY MANUAL

• GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTEWATERS FROM CONSTRUCTION ACTIVITIES AS ADMINISTERED BY THE CONNECTICUT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION

9. THE MOST RECENTLY ADOPTED VERSION(S) OF THE FOLLOWING GOVERNING CODES SHALL APPLY:

• STATE OF CONNECTICUT BUILDING CODE 2018

• 2015 INTERNATIONAL BUILDING CODE

• ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

• 2015 INTERNATIONAL EXISTING BUILDING CODE

• 2015 INTERNATIONAL PLUMBING CODE

• 2015 INTERNATIONAL MECHANICAL CODE

• 2015 INTERNATIONAL ENERGY CONSERVATION CODE

• 2017 NFPA 70, NATIONAL ELECTRIC CODE, OF THE NATIONAL FIRE PROTECTION ASSOCIATION, INC.

• 2015 INTERNATIONAL RESIDENTIAL CODE OF THE INTERNATIONAL CODE COUNCIL, INC.

• UNIFORM FEDERAL ACCESSIBILITY STANDARDS - AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN

GENERAL NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION. "CALL BEFORE YOU DIG" IS TO BE NOTIFIED PRIOR TO ANY CONSTRUCTION. (800-922-4455). MARKINGS SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. IF ANY MARKING IS ELIMINATED DUE TO CONSTRUCTION ACTIVITIES IT IS THE CONTRACTORS RESPONSIBILITY TO HAVE CT CALL BEFORE YOU DIG RE-ESTABLISH THE UTILITY MARKING.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE CONSTRUCTION PERMITS, PRIOR TO CONSTRUCTION, FROM THE TOWN OF WATERFORD ALONG WITH ANY OTHER APPLICABLE AGENCIES. ALL AGENCIES ARE TO BE NOTIFIED AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. A PRE-CONSTRUCTION MEETING IS TO BE HELD WITH THE MUNICIPAL AGENT, LANDSCAPE ARCHITECT, AND CIVIL ENGINEER PRIOR TO THE COMMENCEMENT OF ANY DISTURBANCE OR CONSTRUCTION.
3. ALL EROSION AND SEDIMENTATION CONTROL MEASURES APPLICABLE TO A GIVEN AREA OF CONSTRUCTION SHALL BE IN PLACE AND APPROVED BY EITHER THE LANDSCAPE ARCHITECT OR CIVIL ENGINEER PRIOR TO THE COMMENCEMENT OF WORK IN THAT AREA.
4. ALL DISTURBED SOIL SHALL BE HYDRO-SEEDED.
5. ALL UPLAND AREAS OF PROPOSED FILL SHALL BE FINISH GRADED WITH 4" OF TOPSOIL AND SEEDED WITH AN APPROPRIATE SEED MIXTURE BASED ON RECOMMENDATION APPROPRIATE FOR USE AND SEASON AS DELINEATED BY THE CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL NARRATIVE.
6. NO STUMPS, VEGETATIVE MATER, CONSTRUCTION DEBRIS, OR OTHER MAN-MADE OBJECTS ARE PERMITTED TO BE BURIED ON SITE.
7. ALL FILL SHALL BE PLACED IN SIX INCH (6") LIFTS AND MECHANICALLY COMPACTED. FILL UNDER HARDSCAPE SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AS DETERMINED BY ASSHTO T-180(D). QUALITY AND METHOD OF PLACEMENT SHALL CONFORM TO D.O.T. FORM 818 OR THE MOST CURRENT VERSION AS AMENDED. . SPECIAL CARE SHALL BE TAKEN FOR FILL AREAS WITH LARGE ROCK. COMPACTION IN ROCK FILL SHALL MEET THE 95% MAXIMUM DENSITY AND A RECORD OF THE RESULT SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL.
8. ALL CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY LANDSCAPE ARCHITECT PRIOR TO ANY CLEARING OR GRUBBING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT PLANTINGS SUITABLE TO MUNICIPAL AGENT AND OR LANDSCAPE ARCHITECT FOR ANY SIGNIFICANT ENCROACHMENT BEYOND CLEARING LIMITS.
9. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DISTANCES AND LOCATIONS AND QUANTITIES AS DEPICTED ON THE APPROVED CONSTRUCTION DOCUMENTS. IF THERE ARE ANY DISCREPANCIES OR CHANGES IN FIELD CONDITIONS NOT ADDRESSED BY THESE DOCUMENTS, THE LANDSCAPE ARCHITECT AND CIVIL ENGINEER SHALL BE NOTIFIED PRIOR TO ANY CONSTRUCTION MODIFICATIONS.
10. ALL DRAINAGE CULVERTS, PROPOSED OR REPLACEMENT, SHALL BE INSTALLED IN AN APPROPRIATE MANNER WITH POSITIVE SLOPE AND COVER, WITH INLET AND OUTLET ENDS CLEAR OF DEBRIS AND FREE FLOWING AS PART OF THE REQUIRED CONSTRUCTION. SPECIFICATIONS SET FORTH BY THE CONN. DEPT. OF TRANSPORTATION STANDARDS AND SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION FORM 818 OR THE MOST CURRENT VERSION AS AMENDED, AND THE TOWN OF WATERFORD DRAINAGE STANDARDS SHALL BE APPLICABLE.

11. ALL EXCESS MATERIAL RESULTING FROM EXCAVATION AND CONSTRUCTION BECOMES PROPERTY OF THE CONTRACTOR AND SHALL BE PROPERLY DISPOSED OF OFF-SITE. NO MATERIAL SHALL BE PLACED BEYOND THE LIMITS OF CONSTRUCTION OR WITHIN WETLAND AREAS.
12. THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EKOSION AS MAY BE REQUIRED DURING THE CONSTRUCTION OF THE PROJECT. IN GENERAL, ALL CONSTRUCTIC ACTIVITIES SHALL PROCEED IN A WORKMANLIKE MANNER WITH THE STATED INTENTION TO MINIMIZE THE TIME TO COMPLETION AS WELL AS THE PREVENTION OF THE POLLUTION OF ANY INLAND WETLANDS, WATERCOURSES, WATER BODIES OR CONDUIT CARRYING SURFACE WATER. THE CONTRACTOR SHALL LIMIT, INsofar AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND TO IMMEDIATELY PROVIDE PERMANENT AND/OR TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES OR WATER BODIES, AND TO FULLY MANAGE POSSIBLE EROSION CONDITIONS THROUGHOUT THE CONSTRUCTION LIMITS. NO CONSTRUCTION ACTIVITY SHALL COMMENCE UNTIL THE HEREIN STATED SOIL EROSION AND SEDIMENT CONTROL PLAN HAS BEEN CERTIFIED AND THOSE CONTROL MEASURES DEPICTED HEREIN HAVE BEEN FULLY INSTALLED AND ARE FUNCTIONAL.
13. CONTRACTOR IS RESPONSIBLE FOR ENGAGING THE PROPER UTILITY COMPANIES FOR RELOCATION AND/OR REMOVAL OF EQUIPMENT, NOT LIMITED TO UTILITY POLES, GUY WIRES, AND OVERHEAD WIRES.
14. NOTIFY LANDSCAPE ARCHITECT AT LEAST 48 HOURS PRIOR TO ANY ACTIVITY REQUIRING FIELD OBSERVATION
15. STOCKPILING OF BUILDING MATERIALS SHALL BE CONFINED WITHIN THE AREAS OF CONSTRUCTION DISTURBANCE. MATERIAL STOCKPILES SHALL BE MAINTAINED IN A SAFE AND WORKMANLIKE MANNER. TRASH CONTAINERS AND COLLECTION POINTS SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. ALL REFUSE IS TO BE REMOVED TO AN APPROPRIATE FACILITY.
16. VEHICULAR MOVEMENT SHALL BE LIMITED TO ESTABLISHED CONSTRUCTION ACCESS POINTS. UNNECESSARY ENCROACHMENT OF CONSTRUCTION EQUIPMENT OR OTHER VEHICLES SHALL NOT BE ALLOWED IN NON-CONSTRUCTION PORTIONS OF THE PROPERTY. VEHICULAR ACCESS TO AREAS OUTSIDE THE AREAS OF DISTURBANCE SHALL BE RESTRICTED TO THE MINIMUM NECESSARY TO PERFORM ESSENTIAL AND REQUIRED CONSTRUCTION ACTIVITIES.
17. ALL WORK ALONG STATE ROUTE 156 SHALL BE PERFORMED IN ACCORDANCE WITH THE CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATION FORM 818 OR THE MOST CURRENT EDITION AND ANY SPECIAL PROVISIONS.
18. ALL MATERIALS USED ON THE PROJECT SHALL BE IN CONFORMANCE TO THE CONNECTICUT DEPARTMENT OF TRANSPORTATION SPECIFICATION FORM 818 OR THE MOST CURRENT EDITION OR AS SPECIFIED.

PEDESTRIAN CONTROL

1. TEMPORARY CONSTRUCTION FENCING SHALL BE USED TO PREVENT PEDESTRIAN ACCESS TO THE CONSTRUCTION SITE UNTIL SUBSTANTIAL COMPLETION HAS BEEN REACHED FOR THE PHASE OF THE PROJECT.
2. THE PUBLIC SIDEWALK ALONG THE PARK FRONTAGE SHALL REMAIN OPEN DURING CONSTRUCTION TO THE GREATEST EXTENT POSSIBLE UNTIL THERE IS A THREAT TO PUBLIC HEALTH, SAFETY OR WELFARE.
3. WHEN IT IS UNSAFE FOR THE PUBLIC TO USE THIS WALKWAY OR WHEN STREETSCAPE WORK IS BEING PERFORMED, TEMPORARY PEDESTRIAN DETOUR SIGNAGE AND BARRIERS SHALL BE PROVIDED BY THE CONTRACTOR. WESTBOUND PEDESTRIANS SHALL BE DIRECTED TO CROSS AT THE TOWN HALL CONTROLLED INTERSECTION, AND CONTINUE WEST ON THE SOUTH SIDE OF ROUTE 156; EASTBOUND PEDESTRIANS SHALL DIRECTED TO CROSS AT THE LIBRARY, AND CONTINUE EAST ON THE SOUTH SIDE OF ROUTE 156.

CONSTRUCTION WITHIN TREE PROTECTION AREAS:

1. TREE PROTECTION AREA: THE LAND AREA DIRECTLY UNDER THE TREE CANOPY AS MEASURED FROM THE TRUNK TO THE OUTER MOST LEAVES OF THE CANOPY OR DRIP LINE. SOIL COMPACTION AND, PHYSICAL OR CHEMICAL DAMAGE TO ROOTS WITHIN THIS AREA CAN BE DETRIMENTAL TO THE HEALTH OF THE TREE.
2. A NUMBER OF EXISTING TREES SHALL BE PRESERVED AND PROTECTED AS PART OF THIS PROJECT. MANY OF THESE TREES WILL BE IMPACTED WITH THE INSTALLATION OF NEW WALKWAYS, FOUNDATIONS AND UTILITIES. ALL CONSTRUCTION ACTIVITIES WITHIN THESE AREAS SHALL BE DONE UNDER THE DIRECT SUPERVISION OF THE LANDSCAPE ARCHITECT.
3. EXISTING ROOTS PROXIMATE TO PROPOSED AND EXISTING PAVING SHALL BE EXPOSED USING AN AIRSPADE OR BY HAND. IN AREAS WHERE ROOTS MUST BE REMOVED FOR CONSTRUCTION OF WALKS, FOUNDATIONS, WALLS, ETC. ROOTS SHALL BE SEVERED PRIOR TO EXCAVATION TO ELIMINATE UNNECESSARY TEARING OF ROOTS BY HEAVY EQUIPMENT.
4. TREE ROOTS SHALL NOT BE PRUNED OR CUT UNLESS THEIR REMOVAL IS UNAVOIDABLE OR ABSOLUTELY NECESSARY. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED PRIOR TO ANY OPERATION KNOWN OR SUSPECTED TO INVOLVE CUTTING OF MORE THAN:

a. TWO ROOTS, THREE (3) INCHES OR MORE IN DIAMETER; AND/OR

b. FOUR ROOTS BETWEEN TWO (2) AND THREE (3) INCHES IN DIAMETER. THE CONTRACTOR SHALL BE NOTIFIED IMMEDIATELY IN THE EVENT THAT ROOTS IN EXCESS OF

- THAT DESCRIBED ABOVE ARE CUT, TORN, RIPPED, OR OTHERWISE INJURED.
4. WHEN EXCAVATING FOR CONSTRUCTION OF INLETS, WALLS, FOUNDATIONS,ETC. EXCAVATED SOIL SHALL BE DEPOSITED IN TRUCKS AND HAULED OFF OR DEPOSITED TEMPORARILY ON 3/4-INCH THICK PLYWOOD. EXCAVATED AND FILL SOIL SHALL NOT BE DEPOSITED, EVEN TEMPORARILY, ON UNPROTECTED NATURAL GRADE. EXCAVATED FILL SOIL SHALL BE RETURNED AS BACKFILL WHERE POSSIBLE.
5. ALL TRENCHING OR OTHER WORK UNDER THE DRIPLINE OF ANY TREE SHALL BE DONE BY HAND OR BY OTHER METHODS, WHICH WILL PREVENT BREAKAGE OR OTHER INJURY TO BRANCHES AND ROOTS.
6. LIMIT GRADING TO A MAXIMUM OF TWO (2) INCHES OF FILL OVER NATURAL GRADE WITHIN CRITICAL ROOT ZONES. FILL SHOULD CONSIST OF SANDY LOAM TOPSOIL. CLAY SOILS SHALL NOT BE USED AS FILL. WHEN USING FILL SOIL, THE EXISTING SURFACE TO RECEIVE FILL SHOULD BE SCARIFIED PRIOR TO FILLING. ANY FILLING OPERATION SHOULD NOT OCCUR DURING WATER SATURATED SOIL CONDITIONS.

WATERCOURSE AND WETLAND IMPACT AVOIDANCE AND MINIMIZATION MEASURES:

1. THE FOLLOWING MEASURES WILL BE TAKEN TO AVOID OR MINIMIZE IMPACTS TO WATERCOURSES AND WATERBODIES DURING PROJECT ACTIVITIES. ALL WORK IN OR NEAR WATERCOURSES AND WATERBODIES WILL BE IN ACCORDANCE WITH PROJECT MAPPING AND THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
2. INSTALL AND MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROLS ALONG THE ROW WHERE CONSTRUCTION ACTIVITIES DISTURB SOILS NEAR WATERCOURSES. THESE CONTROLS WILL BE INSTALLED AND MAINTAINED TO MINIMIZE THE POTENTIAL FOR SEDIMENTATION INTO WATER RESOURCES. SEDIMENT THAT ACCUMULATES BEHIND THESE CONTROLS WILL PERIODICALLY BE REMOVED AND PLACED IN UPLAND AREAS, IN A MANNER THAT WILL PRECLUDE THE POTENTIAL FOR SUBSEQUENT DEPOSITION INTO WATERCOURSES, INLAND WETLAND AREAS, OR WILL OTHERWISE BE DISPOSED OF OFF-SITE.
3. CONSTRUCTION EQUIPMENT SHALL BE PROHIBITED FROM FORDING STREAMS.
4. EXCEPT FOR EQUIPMENT THAT IS NOT READILY MOBILE OR MUST REMAIN ON-SITE FOR PROLONGED PERIODS TO SAFELY COMPLETE A CONSTRUCTION TASK, CONSTRUCTION VEHICLES AND EQUIPMENT WILL NOT BE REFUELED WITHIN 100 FEET OF A WATERCOURSE OR OPEN WATERS. FOR REFUELING THAT MUST BE PERFORMED LESS THAN 25 FEET FROM A WATERCOURSE, APPROPRIATE SPILL PREVENTION MEASURES AS DETAILED IN THE CONTRACTOR'S SPILL PREVENTION AND CONTROL PLAN WILL BE APPLIED.

WETLAND RESTORATION PLAN:

1. AS NECESSARY, WETLAND AREAS AFFECTED BY CONSTRUCTION MAY BE STABILIZED TEMPORARILY WITH ANNUAL RYEGRASS, OR AS DIRECTED BY THE LANDSCAPE ARCHITECT. FOR LONG-TERM STABILIZATION IN AREAS WHERE THE TOPSOIL LAYER (CONTAINING WETLAND SEEDS) WAS DISTURBED BY CONSTRUCTION, ANNUAL RYE GRASS, A WETLAND SEED MIX, OR AN EQUIVALENT MIX WILL BE APPLIED AT THE LABEL-RECOMMENDED SEEDING RATE. IF FINE GRADING IS NECESSARY, IT SHOULD BE PERFORMED DURING THE GROWING SEASON AND IN A MANNER THAT RETAINS THE EXISTING WETLAND TOPSOIL AND ROOT MASS TO THE EXTENT PRACTICABLE. ONCE COMPLETE, DISTURBED AREAS AFFECTED BY GRADING SHALL BE SEEDED IMMEDIATELY.
2. TEMPORARY EROSION AND SEDIMENT CONTROLS WILL BE LEFT IN PLACE AND MAINTAINED UNTIL FINAL STABILIZATION IS ACHIEVED. RESTORATION TYPICALLY WILL BE DEEMED SUCCESSFUL BASED ON THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER. BASED ON THE RESULTS OF POST-CONSTRUCTION INSPECTIONS OF AREAS OF STABILIZATION, THE LANDSCAPE ARCHITECT WILL DETERMINE THE APPROPRIATE TIMEFRAME FOR THE REMOVAL OF ALL TEMPORARY EROSION CONTROLS.

ENVIRONMENTAL BMP & PROTECTION:

1. NO CONSTRUCTION SHALL PROCEED UNTIL PROPER SEDIMENTATION AND EROSION CONTROL METHODS HAVE BEEN INSTALLED AS THE SEQUENCE OF CONSTRUCTION NECESSITATES.
2. NO EQUIPMENT, MATERIALS OR MACHINERY SHALL BE STORED, CLEANED OR REPAIRED WITHIN SEVENTY-FIVE (75) FEET OF ANY WETLAND OR WATERCOURSE.
3. NO OBJECTIONABLE MATERIALS RESULTING FROM ANY CLEARING ACTIVITY SHALL BE DISPOSED OF IN ANY WETLAND OR WATERCOURSE. THIS INCLUDES, BUT IS NOT LIMITED TO, STUMPS, TREE ROOTS, MATTED ROOTS, WOOD CHIPS AND OTHER DEBRIS.
4. FORDING STREAMS WITH EQUIPMENT SHALL BE PROHIBITED UNLESS SPECIFIED ELSEWHERE. APPROVAL FROM THE TOWN OF WATERFORD CONSERVATION COMMISSION WILL BE REQUIRED FOR ANY HAUL ROAD OR TEMPORARY STRUCTURE PLACED IN WETLANDS OR WATERCOURSES.
5. NO SOIL FILL OR OTHER MATERIALS SHALL BE DEPOSITED IN SURROUNDING WETLANDS OR WATERCOURSES EXCEPT AS OTHERWISE APPROVED BY THE TOWN OF WATERFORD CONSERVATION COMMISSION AND DEPICTED HEREON.
6. WHERE DEWATERING IS NECESSARY, THE PUMP SHALL NOT DISCHARGE DIRECTLY INTO ANY WETLAND OR WATERCOURSE.

PROPER METHODS AND DEVICES SHALL BE UTILIZED, SUCH AS PUMPING THE WATER INTO A TEMPORARY SEDIMENTATION POOL, PROVIDING SURGE PROTECTION AT THE INLET AND THE OUTLET OF PUMPS, FLOATING THE INTAKE OF THE PUMP, OR OTHER METHODS TO MINIMIZE AND RETAIN THE SUSPENDED SOLIDS. IF THE PUMPING OPERATION IS CAUSING TURBIDITY PROBLEMS, SAID OPERATION SHALL CEASE UNTIL FEASIBLE MEANS OF CONTROLLING TURBIDITY ARE DETERMINED AND IMPLEMENTED.

7. ALL TEMPORARY FILL, STORAGE OR STOCKPILE AREAS SHALL BE PROPERLY STABILIZED TO PREVENT EROSION AND SUITABLY CONTAINED TO PREVENT TURBID RUNOFF FROM REENTERING A WETLAND OR WATERCOURSE. ALL AREAS AFFECTED BY TEMPORARY FILLS MUST BE RESTORED TO THEIR ORIGINAL CONTOURS, AND RE- VEGETATED WITH SUITABLE VEGETATION. THE USE OF TEMPORARY FILL AND/OR EXCAVATION SHALL BE MINIMIZED TO ONLY THAT AREA REQUIRED TO PERFORM THE WORK.
8. DUMPING OF OIL OR OTHER DELETERIOUS MATERIALS ON THE GROUND IS FORBIDDEN. THE CONTRACTOR SHALL PROVIDE A MEANS OF CATCHING, RETAINING AND PROPERLY DISPOSING OF DRAINED OIL, REMOVED OIL FILTERS, OR OTHER DELETERIOUS MATERIAL FROM EQUIPMENT USED ON SITE. VEHICLE MAINTENANCE EXCEPT DAILY AND PERIODIC PROCEDURES SHALL BE COMPLETED OFF SITE. ALL OIL SPILLS SHALL BE IMMEDIATELY REPORTED TO THE DEPARTMENT OF ENVIRONMENTAL PROTECTION/HAZARDOUS MATERIALS OFFICE. FAILURE TO DO SO MAY RESULT IN THE IMPOSITION OF FINES UNDER THE APPLICABLE CONNECTICUT GENERAL STATUTES.
9. EVERY PRECAUTION SHALL BE USED WHILE WORKING NEAR A WATERWAY TO PREVENT AND MINIMIZE THE DEGRADATION OF THE EXISTING WATER QUALITY. ALL ACTIVITIES SHALL BE IN CONFORMANCE TO AND CONSISTENT WITH ALL APPLICABLE WATER QUALITY STANDARDS AND MANAGEMENT PRACTICES AS SET FORTH BY LOCAL, STATE AND FEDERAL AGENCIES.
10. DURING THE PERIOD OF CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES. SAID MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINSTORM AND DURING A MAJOR STORM EVENT. ACCUMULATED DEPOSITS OF SEDIMENT AND SILT SHALL BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE EROSION AND SEDIMENT CONTROL BARRIERS, AND UPON ESTABLISHMENT OF PERMANENT SEEDING AND MULCHING. SUCH MATERIALS REMOVED SHALL BE SPREAD AND STABILIZED IN NON-WETLAND AREAS WHICH ARE NOT SUBJECT TO EROSION, OR WHICH ARE NOT TO BE PAVED OR BUILT UPON.

11. HAY BALES, SILT FENCING AND OTHER EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REPAIRED, CLEANED AND/OR REPLACED AS NECESSARY THROUGHOUT THE CONSTRUCTION PERIOD IN ORDER TO MAINTAIN COMPLETE AND INTEGRAL EROSION AND SEDIMENT CONTROL PROTECTION. ONCE IN PLACE ALL EROSION AND SEDIMENT CONTROL FACILITIES AND MEASURES ARE TO REMAIN IN PLACE AND IN PROPER CONDITION AND BE CONTINUOUSLY MAINTAINED UNTIL FINAL GRADING HAS BEEN COMPLETED, ALL DISTURBED AREAS UPGRADIENT OF SAID FACILITIES HAVE BEEN PERMANENTLY STABILIZED AND ALL NEWLY GRASSED AREAS HAVE HAD AT LEAST TWO MOWINGS. FOLLOWING SUCH PERMANENT STABILIZATION, THE FACILITIES SHALL BE DISMANTLED, REMOVED, AND DISPOSED OF IN AN APPROVED MANNER. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES BEYOND THOSE SHOWN ON THE PLANS OR PRESCRIBED HEREIN SHALL BE PUT IN PLACE, WHENEVER NECESSARY, TO ADDRESS FIELD CONDITIONS AND/OR AS ORDERED BY THE TOWN.
12. DISTURBANCE OF THE LAND SHALL BE LIMITED TO THE MINIMUM EXTENT NECESSARY TO COMPLETE THE PROPOSED DEVELOPMENT. ALL EXISTING TREES AND SHRUBS SHALL BE CONSERVED WHERE POSSIBLE, EXCEPT THOSE WHOSE REMOVAL IS REQUIRED TO PERFORM THE PROPOSED WORK. THE LIMITS OF DISTURBANCE SHALL BE ESTABLISHED IN THE FIELD PRIOR TO STARTING ANY ACTUAL CONSTRUCTION ACTIVITIES AND SHALL BE GENERALLY AS DEPICTED BY THE GRADING/SITE DEVELOPMENT DRAWINGS.

EROSION AND SEDIMENT CONTROL

1. THE CONTRACTOR SHALL BE RESPONSIBLE TO INSPECT THE SITE IN ACCORDANCE WITH THE PROCEDURES AS OUTLINED IN THE "GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER AND DEWATERING WASTE WATERS FROM CONSTRUCTION ACTIVITIES" AS ADOPTED BY THE DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION EFFECTIVE ON OCTOBER 1, 2013.
2. THE CONTRACTOR SHALL INSPECT ALL DISTURBED AREAS OF CONSTRUCTION ACTIVITY THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER. WHERE SITES HAVE BEEN TEMPORARILY OR FINALLY STABILIZED, SUCH INSPECTION SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH FOR THREE CONSECUTIVE MONTHS.
3. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE INSPECTED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ASSESSABLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.
4. A REPORT SHALL BE MADE SUMMARIZING THE SCOPE OF THE INSPECTION INCLUDING THE FOLLOWING: NAME AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORMWATER

CONTROL PLAN, AND ACTIONS TAKEN. THE REPORT SHALL BE RETAINED AS PART OF THE STORMWATER CONTROL PLAN FOR AT LEAST THREE YEARS AFTER THE DATE OF INSPECTION AND SHALL BE SUBMITTED TO THE TOWN.

5. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES BEYOND THOSE DEPICTED HEREIN SHALL BE PUT IN PLACE WHENEVER NECESSARY TO ADDRESS FIELD CONDITIONS AND/OR AS ORDERED BY THE TOWN, OR THEIR AGENT.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN AND ENFORCING THE PRESCRIBED SAFEGUARDS DURING THE CONSTRUCTION PERIOD. THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN, NOTIFYING THE PROPER MUNICIPAL AGENCIES AND OFFICIALS OF ANY TRANSFER OF THIS RESPONSIBILITY.
7. EROSION CONTROL MATTING IS REQUIRED ON ALL SEEDED SLOPES GREATER THAN 1:6. SEE SPECIFICATIONS.
8. ALL EXISTING CATCH BASINS TO REMAIN MUST HAVE FILTER BAGS INSTALLED PRIOR TO MOBILIZATION.
9. HAY BALES OR SILT WADDLES MUST BE USED IN ALL AREAS WHERE SILT FENCE IS NOT FEASIBLE OR CANNOT BE INSTALLED DUE TO SUBSURFACE OBSTRUCTIONS.
10. ALL SOIL STOCKPILES MUST HAVE E&S CONTROLS INSTALLED ENTIRELY AROUND THE STOCKPILE TO PREVENT SEDIMENT FROM ESCAPING DURING RAIN EVENTS AND COVERED TO PREVENT EROSION BY WIND.
11. DURING PERIODS OF DROUGHT, EXPOSED SOILS NOT STABILIZED SHALL BE IRRIGATED TO PREVENT EROSION BY WIND.
12. THE CONTRACTOR MAY INCUR FINES IF E&S CONTROLS ARE INSPECTED BY THE TOWN OR STATE AND FOUND TO BE MISSING, DAMAGED, OR NOT CONTAINING SEDIMENT ON-SITE.

DEMOLITION

1. CONTRACTOR SHALL USE CAREFUL CONSTRUCTION PRACTICES TO MINIMIZE DISTURBANCE OF ALL ITEMS TO REMAIN.
2. SITE CLEANUP AND DISPOSAL OF ALL DEBRIS AND UNSUITABLES GENERATED BY DEMOLITION ACTIVITIES ARE THE RESPONSIBILITY OF THE CONTRACTOR. ALL DEMOLITION DEBRIS SHALL BE DISPOSED OF OFF-SITE PER LOCAL AND STATE REGULATIONS.
3. CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO SURROUNDING PROPERTY AS A RESULT OF CONSTRUCTION ACTIVITIES.

LAYOUT

1. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND LAYOUT DIMENSIONS IN THE FIELD. REPORT ANY DISCREPANCIES OF THE DESIGN TO THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING CONSTRUCTION.
2. STAKE OR OTHERWISE FLAG ALL DESIGN ELEMENTS AND FEATURES IN THE FIELD. OBTAIN LANDSCAPE ARCHITECTS APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
3. ALL DIMENSIONS ARE FROM THE FACE OF WALL OR CURB UNLESS OTHERWISE NOTED. DIMENSIONS RELATING TO BUILDING ARE FROM FACE OF THE BUILDING FOUNDATION
4. ALL ANGLES ARE ASSUMED TO BE 90 DEGREES UNLESS OTHERWISE STATED.
5. ANY CHANGES TO PROPOSED DIMENSIONS SHOWN ON THIS DRAWING SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING CONSTRUCTION.
6. JUNCTIONS BETWEEN EXISTING AND PROPOSED WALKS AND WITH BUILDING THRESHOLDS MUST HAVE FLUSH TRANSITIONS AND MUST BE DOWELED (IF APPLICABLE) TO PREVENT SETTLING.

GRADING NOTES:

1. PRIOR TO ANY RE-GRADING ACTIVITY, THE INSTALLATION OF AN ANTI-TRACKING PAD SHALL BE COMPLETED AT THE CONSTRUCTION ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE
2. ALL MATERIALS USED SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT.
3. ANY UNSUITABLE MATERIALS EXPOSED WITHIN CONSTRUCTION AREAS ARE TO BE IDENTIFIED TO THE LANDSCAPE ARCHITECT PRIOR TO THE REMOVAL AND REPLACEMENT WITH SUITABLE MATERIAL AS DIRECTED BY THE LANDSCAPE ARCHITECT.
4. THE CUT FACE OF EARTH EXCAVATIONS SHALL NOT EXCEED FINAL SLOPES GREATER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
5. THE PERMANENT EXPOSED FACES OF AREAS OF FILL SHALL NOT EXCEED FINAL SLOPES GREATER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
6. THE CUT FACE OF ROCK EXCAVATION SHALL NOT EXCEED FINAL SLOPES GREATER THAN ONE HORIZONTAL TO ONE

VERTICAL (1:1).

7. NO FILL SHALL BE PLACED IN AREAS WHERE CONDITIONS ALLOW THE MATERIAL TO SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER, OR INTO AREAS OF ADJACENT WETLANDS, WATERCOURSES OR WATER BODIES.
8. AS CONDITIONS REQUIRE, LATERAL WATER DIVERSIONS SHALL BE INSTALLED ACROSS THE GRADED ROADWAY TO PREVENT DOWN SLOPE OUTWASH AND EROSION. (WATER BARS)
9. PROVISIONS SHALL BE MADE TO CONVEY SURFACE WATER SAFELY TO PERMANENTLY ESTABLISHED AREAS OF VEGETATIVE COVER IN ORDER TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
10. CONTRACTOR SHALL VERIFY ALL EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE LANDSCAPE ARCHITECT PRIOR TO COMMENCING WORK. THE STARTING OF WORK INDICATES THE CONTRACTOR HAS REVIEWED AND ACCEPTED EXISTING CONDITIONS.
11. CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY CONFLICTS BETWEEN UTILITY PLANS, LANDSCAPE PLANS AND GRADING PLANS.
12. CONTRACTOR SHALL BLEND NEW TOPSOIL FINISH GRADES SMOOTHLY INTO EXISTING GRADES, PROVIDING VERTICAL CURVES OR ROUNDED TRANSITIONS AT THE TOP AND BOTTOM OF SLOPES.
13. PITCH EVENLY BETWEEN SPOT GRADES.
14. ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM SLOPE OF ONE-EIGHTH INCH (1/8") PER FOOT (1%). ANY SITE CONDITIONS OR CONFLICTS PREVENTING THIS OCCURRENCE SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT PRIOR TO CONTINUING THE WORK. NEW PAVEMENT AREAS MUST HAVE POSITIVE DRAINAGE TOWARDS THE STREET CURB OR TOWARDS DRAINAGE STRUCTURES. CROSS SLOPES OF WALKWAYS SHALL NOT EXCEED ONE-QUARTER INCH (1/4") PER FOOT (2%), CURB RAMP RUNNING SLOPE SHALL NOT EXCEED ONE INCH (1") PER FOOT (8.33%) IN A MAXIMUM SIX FEET (6'-0"), MAXIMUM SLOPES FOR WALKWAYS WITHOUT HANDRAILS SHALL NOT EXCEED NINETEEN-THIRTY SECONDS (19/32") PER FOOT (4.95%). MAXIMUM SLOPES FOR RAMPS WITH HANDRAILS SHALL NOT EXCEED ONE INCH (1") PER FOOT (8.33%) FOR A MAXIMUM THIRTY FEET (30'-0") RUN. LEVEL LANDINGS (AS DEFINED BELOW) ARE REQUIRED AT THE TOP AND BOTTOM OF RAMPS (GRADES OVER 5%).
15. FINAL GRADES ADJACENT TO BUILDINGS SHALL HAVE 1/4" / FT MIN. SLOPE AWAY FROM BUILDING. THE EXTERIOR SIDE OF DOORWAYS SHALL HAVE A LEVEL LANDING NOT EXCEEDING 2% IN ANY DIRECTION FOR A MINIMUM RUNNING DIMENSION OF FIVE FEET (5'-0") FROM THE THRESHOLD AND EQUAL TO THE WIDTH OF THE WALKWAY SERVING THE DOOR, WITH A MINIMUM WIDTH OF 36".
16. WALKING SURFACES SHALL NOT HOLD WATER, ANY WALKING SURFACE WHICH PUDDLES WILL BE REJECTED.
17. FINAL GRADING OF ALL EARTHWORK SHALL BE AS DIRECTED AND APPROVED IN THE FIELD BY THE LANDSCAPE ARCHITECT.
18. CONTRACTOR SHALL PROVIDE DUST CONTROL FOR EARTHWORK OPERATIONS AS NOTED IN THE EROSION AND SEDIMENT CONTROL NOTES ON THIS SHEET.
19. RIM ELEVATIONS OF ALL DRAINAGE STRUCTURES AND OTHER UTILITY STRUCTURES SHALL BE SET FLUSH WITH FINAL SURROUNDING GRADES SO AS NOT TO CAUSE A TRIP HAZARD.
20. THE CONTRACTOR SHALL MAINTAIN OR ADJUST TO NEW FINISHED GRADES AS NECESSARY ALL UTILITY AND SITE STRUCTURES SUCH AS LIGHT POLES, SIGN POLES, MANHOLES, DRAINAGE STRUCTURES, HAND HOLES, WATER AND GAS GATES, HYDRANTS, ETC., FROM MAINTAINED UTILITY AND SITE SYSTEMS UNLESS OTHERWISE NOTED ON THE UTILITY DRAWINGS OR AS DIRECTED BY THE LANDSCAPE ARCHITECT.
21. CONTRACTOR SHALL HYDROSEED ALL AREAS DISTURBED BY THIS CONTRACT FOR WHICH NO OTHER SURFACE RESTORATION IS INDICATED BY THE CONTRACT DOCUMENTS.
22. CURBING SHALL HAVE A 6" REVEAL UNLESS NOTED OTHERWISE.

WATERFORD CIVIC TRIANGLE

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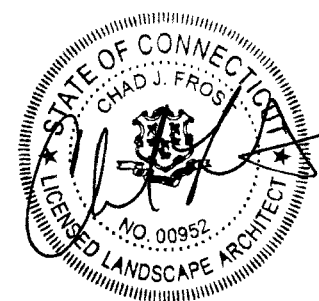


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WETLANDS PERMITTING

Revisions	Date

PROJECT NOTES

Scale	
Date	August 23, 2022
K-F Project No.	2021014
Drawing No.	

L-1.0

TEMPORARY AND PERMANENT VEGETATIVE COVER

1.

IF FINAL GRADING MUST BE DELAYED FOR MORE THAN THIRTY DAYS AFTER THE CONSTRUCTION ACTIVITIES ARE COMPLETED AND/OR IF PERMANENT SEEDING IS NOT SEASONABLY POSSIBLE WITHIN THIRTY DAYS OF COMPLETION OF FINAL GRADING, TEMPORARY SOIL STABILIZATION MEASURES CONSISTING OF HEAVY MULCHING OR TEMPORARY SEEDING SHALL BE PERFORMED. THIS SHALL ALSO APPLY TO SOILS STOCKPILED IN EXCESS OF SIXTY DAYS. TEMPORARY SEEDING SHALL USE ANNUAL RYEGRASS APPLIED AT A RATE OF 2 LBS. /1000 SQ. FT. TEMPORARY MULCH SHALL BE WEED FREE HAY OR STRAW, OR AIR-DRIED WOOD CHIPS FREE OF COARSE MATTER, TREATED WITH TWELVE POUNDS OF NITROGEN PER TON. APPLICATION RATE FOR THE MULCH SHALL BE SEVENTY TO NINETY POUNDS PER ONE THOUSAND SQUARE FEET (70-90 LBS. /1000 SQ. FT.) FOR HAY OR STRAW, AND 185-275 LBS. /1000 SQ. FT. FOR WOOD CHIPS.
2.

ALL SOIL SHALL BE TESTED TO DETERMINE THE BEST FERTILIZER APPLICATION RATE; HOWEVER, THE FOLLOWING RATES SHALL GENERALLY APPLY. LIMESTONE SHALL BE APPLIED AT A RATE OF NINETY POUNDS PER ONE THOUSAND SQUARE FEET (90 LBS. /1000 SQ. FT.). WHERE A PERMANENT SEEDBED IS TO BE ESTABLISHED, THERE SHALL BE A MINIMUM DEPTH OF FOUR INCHES OF TOPSOIL SPREAD, FINE-GRADED AND RAKED TO REMOVE LARGE STONES AND OTHER DEBRIS.
3.

SPRING SEEDING

- PRIOR TO SEEDING, 300 POUNDS OF 10-10-10 FERTILIZER PER ACRE (7 LBS./1000 SQ. FT.) SHALL BE WORKED UNIFORMLY INTO THE TOPSOIL TO A DEPTH OF FOUR INCHES WITH A WHISK, A SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT; THEN SIX TO EIGHT WEEKS LATER SURFACE APPLY AN ADDITIONAL 300 POUNDS OF 10-10-10 FERTILIZER PER ACRE.
4.

FALL SEEDING

- PRIOR TO SEEDING, 600 POUNDS OF 10-10-10 FERTILIZER PER ACRE (14 LBS. /1000 SQ. FT.) SHALL BE WORKED UNIFORMLY INTO THE TOPSOIL TO A DEPTH OF FOUR INCHES WITH A WHISK, A SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT.
5.

PERMANENT SEEDBEDS ARE TO BE PLANTED BETWEEN MARCH 15 TO JUNE 15 (SPRING) AND AUGUST 15 TO OCTOBER 15 (FALL). ALL FERTILIZING/PLANTING APPLICATIONS SHALL BE PERFORMED PARALLEL WITH THE FINAL GRADING OF THE SLOPE. AFTER SEED APPLICATION, COVER GRASS AND LEGUME SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
6.

SELECT ADAPTED SEED MIXTURE FOR ALL FINISHED GRASSES AS FOLLOWS:

WETLAND AREAS			
NEW ENGLAND WETMIX	100%	18 LBS/AC	

WETLAND SEED MIX IS COMPOSED OF A WIDE VARIETY OF NATIVE SEED SPECIES: CAREX LURIDA, CAREX SCOPARIA, VERBENA HASTATA, CAREX LUPULINA, SCIRPUS ATROVIRENS, PANICUM RIGIDULUM, DESCHAMPSIA CESPIITOSA, BIDENS ARISTOSA, ELEOCHARIS PALUSTRIS, JUNCUS EFFUSUS, CAREX CRINITA, MIMULUS RINGENS, ASTER PUNICEUS, EUPATORIUM PERFOROLIATUM, GLYCERIA CANADENSIS, ASCLEPIAS INCARNATA, HELENIUM AUTUMNALE, PENTHORUM SEDOIDES.

FULL TO PARTIAL SUN AREAS			
KENTUCKY BLUEGRASS (0.50 LBS/1000 SQ. FT.)	45%	20 LBS/AC	
CREEPING RED FESCUE (0.50 LBS/1000 SQ. FT.)	45%	20 LBS/AC	
PERENNIAL RYEGRASS (0.10 LBS/1000 SQ. FT.)	10%	5 LBS/AC	
SHADY AREAS			
CREEPING RED FESCUE (1.00 LBS/1000 SQ. FT.)	90%	50 LBS/AC	
PERENNIAL RYEGRASS (0.10 LBS/1000 SQ. FT.)	10%	5 LBS/AC	
DROUGHTY AREAS			
CREEPING RED FESCUE (0.90 LBS/1000 SQ. FT.)	65%	40 LBS/AC	
TALL FESCUE (0.50 LBS/1000 SQ. FT.)	35%	20 LBS/AC	

7.

IMMEDIATELY FOLLOWING SEEDING, THE SEEDBEDS SHALL BE MULCHED WITH STRAW OR HAY FREE FROM WEEDS AND COARSE MATTER AT A RATE OF SEVEN TO NINE POUNDS PER ONE THOUSAND SQUARE FEET (7-9 LBS/1000 SQ. FT.) MULCH SHALL BE ANCHORED IMMEDIATELY AFTER SPREADING BY APPLICATION OF A LIQUID MULCH BINDER OR MULCH NETTING APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

PLANTING

1.

PLANTING BEDS AND SEEDED LAWN AREAS SHALL RECEIVE TEMPORARY IRRIGATION UNTIL PLANTINGS HAVE BEEN ESTABLISHED IF NO IRRIGATION SYSTEM IS PLANNED, THE LANDSCAPE ARCHITECT SHALL DETERMINE WHEN TEMPORARY IRRIGATION MAY BE REMOVED.
2.

PLANT LOCATIONS ARE TO BE STAKED BY CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT. INDIVIDUAL STAKES SHALL BE PLACED FOR TREES AND SHRUBS. EDGE OF PLANTING BEDS SHALL BE PAINTED. NOTIFY LANDSCAPE ARCHITECT 48 HOURS PRIOR TO DESIRED APPROVAL.

3.

PLANTS SHALL COMPLY WITH SIZING AND GRADING STANDARDS OF THE LATEST EDITION OF "AMERICAN STANDARDS FOR NURSERY STOCK". PROVIDE STOCK TRUE TO BOTANICAL NAME AND LEGIBLY TAGGED. PLANTS SHALL BE FREE OF DEFECTS, DISEASES AND ALL FORMS OF INSECT INFESTATIONS.
4.

ALL PLANTS SHALL BE PLANTED TO SAME DEPTH AS AT PLACE OF GROWTH, EXCEPT WHERE NOTED OTHERWISE.
5.

ALL PLANTING BEDS SHALL RECEIVE 12" OF SPECIFIED SOIL MIXTURE: 11" SCREENED LOAM, 1" OF COMPOST. BLEND COMPOST INTO TOP 4" OF SOIL. PLANTING SOIL MIXTURE SHALL BE FREE OF SUBSOIL, LUMPS, STONES, PLANTS, ROOTS, AND OTHER FOREIGN MATTER.
6.

ALL LAWN AREAS SHALL RECEIVE A MIN. OF 4" OF SCREENED LOAM.
7.

ALL PLANTING BEDS SHALL BE MULCHED WITH FINELY SHREDDED, HARDWOOD BARK MULCH. TREES AND SHRUBS SHALL RECEIVE 3 INCHES, PERENNIAL AND GROUNDCOVER BEDS SHALL RECEIVE 2 INCHES. PROVIDE LANDSCAPE ARCHITECT WITH A 1 GALLON ZIP-LOCK SAMPLE FOR APPROVAL. KEEP ALL MULCH AWAY FROM TRUNKS AND PLANT CROWNS.
8.

NO SUBSTITUTIONS OF PLANT SPECIES OR CULTIVARS IS ALLOWED BY THE CONTRACTOR UNLESS AUTHORIZED BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING OF PLANT AVAILABILITY ISSUES AS PER THE SPECIFICATIONS.
9.

BURLAP, TWINE, AND WIRE SHALL BE COMPLETELY REMOVED OR CUT AWAY FROM TOP 1/3 OF ROOT BALL AT TIME OF INSTALLATION (SEE SPECIFICATION) .
10.

SEE SPECIFICATIONS FOR PLANT WARRANTY.

11.

ALL DISTURBED AREAS NOT DESIGNATED FOR OTHER IMPROVEMENTS SHALL BE HYDROSEEDD AS LAWN. HYDROSEED GRASS MIX SHALL BE DETERMINED BASED ON SEASON OF INSTALLATION.
12.

ALL GRASS, OTHER VEGETATION AND DEBRIS SHALL BE REMOVED FROM ALL PLANTING BEDS PRIOR TO PLANTING OR BACKFILLING. CONTRACTOR SHALL REMOVE ALL DEBRIS FROM SITE AS WORK PROGRESSES.
13.

CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES. SEE GRADING PLAN AND NOTES.
14.

ALL TOP SOIL STRIPPED FOR REUSE SHALL BE SENT TO AND TESTED BY AN ACCREDITED SOIL TESTING LABORATORY AND AMENDED PER THEIR REQUIREMENTS. IF SOILS ARE UNSUITABLE THEY MUST BE REMOVED FROM SITE AND DISPOSED OF OFF PROPERTY PER LOCAL, STATE, AND FEDERAL LAW.

POND DREDGING, BOARDWALK AND FOREBAY SEQUENCE OF CONSTRUCTION

1.

CONTRACTOR SHALL PERFORM ALL WORK IN THE DRY.
2.

THE CONTRACTOR IS RESPONSIBLE FOR FINAL DESIGN OF THE DEWATERING SYSTEM. THIS INCLUDES QUANTITY AND SIZING OF WELL POINTS, PUMP, CONVEYANCE PIPING AND THE SEDIMENT SETTLING BASIN.
3.

INSTALL NON-DISRUPTIVE EROSION AND SEDIMENT (E&S) CONTROL MEASURES, SILT SOCKS, SILT SACKS, TURBIDITY CURTAINS AND CONSTRUCTION FENCING AS DOCUMENTED AND AS DIRECTED BY THE LANDSCAPE ARCHITECT OR WETLANDS AGENT.
4.

REMOVE NECESSARY VEGETATION AND INSTALL ANTI-TRACKING PADS AT THE DESIGNATED CONSTRUCTION ACCESS POINTS AND SILT FENCING.
5.

DEMO TREES AND BRUSH DESIGNATED FOR REMOVAL.
6.

INSTALL THE REMAINING E&S MEASURES FOR POND DREDGING INCLUDING SEDIMENT SETTLING BASINS AND DREDGE SOIL STOCKPILES.
7.

PLACE EROSION CONTROL MATTING ALONG THE FOREBAY, STREAM AND POND EDGES AS INDICATED ON THE DRAWINGS TO PREVENT SCOUR.
8.

STRIP TOPSOIL AS REQUIRED FOR THE FOREBAY INSTALLATION. STOCK PILE FOR RE-USE.
9.

EXCAVATE TO THE REQUIRED GRADES INDICATED ON THE CIVIL DRAWINGS.
10.

INSTALL THE FOREBAY COMPONENTS AS DIRECTED ON THE CIVIL DRAWINGS
11.

POND LIFE PROTECTION - CONTRACTOR SHALL EITHER PROVIDE TEMPORARY HOLDING AREA FOR POND FISH AND AMPHIBIANS OR RELOCATE POND FISH AND AMPHIBIANS TO ANOTHER WATER BODY WITHIN THE TOWN OF WATERFORD, AS APPROVED BY THE WETLAND AGENT.
12.

BEGIN THE INITIAL POND DEWATERING BY DRAWING DOWN THE POND WATER ELEVATION WITH A SCREENED INLET ON A PUMP INTAKE HOSE.
13.

WHEN THE WATER LEVEL HAS REACHED ITS LOWEST POINT, CAREFULLY INSTALL WELL POINTS AS REQUIRED TO FURTHER DE-WATER THE POND AND SUBGRADE.
14.

WHEN THE MUCK TOP LAYER IS SUFFICIENTLY DRY, USE EARTH MOVING MACHINES TO SCRAPE THE MUCK FROM THE POND AND STREAM AND MOVE TO THE IN-POND PRIMARY DEWATERING AREA NOTED ON THE PLANS. USE CARE NOT TO DISRUPT THE GRAVELY POND SUB-BASE.
15.

ALLOW THE MUCK TO DEWATER PRIOR TO MOVING IT TO THE SECONDARY DEWATERING AREA.
16.

AFTER SECONDARY DEWATERING, THE DRIED MUCK MAY BE HAULED TO THE STORAGE AREA FOR LONG TERM STORAGE.
17.

WHILE WAITING FOR THE PRIMARY DEWATERING TO OCCUR, POND DREDGING, FOREBAY AND BOARDWALK CONSTRUCTION MAY BEGIN CONCURRENTLY.
18.

REGRADE POND BOTTOM TO THE GRADES AND ELEVATIONS NOTED ON THE POND DREDGING DRAWINGS.
19.

EXCAVATED SAND/GRAVEL LAYER SHALL BE MOVED TO THE SAND/GRAVEL DEWATERING AREA NOTED ON THE PLANS, DEWATERED THEN HAULED AND DISPOSED OF OFF-SITE.

20.

REMOVE SEDIMENT STOCKPILE E&S CONTROLS ONCE ALL SEDIMENT HAS BEEN REMOVED FROM THE SITE.
21.

REPAIR THE POND DAM IF REQUIRED
22.

DEMO THE BRIDGES
23.

INSTALL THE BOARDWALK AND BRIDGES AS DIRECTED ON THE STRUCTURAL ENGINEERING DRAWINGS AND AS PER THE GEOTECHNICAL ENGINEER.
24.

INSTALL ANY ELECTRICAL CONDUITS ACROSS BRIDGES AND BOARDWALKS.
25.

WHEN THE BOARDWALK SUB-STRUCTURES ARE IN PLACE, REPLACE STOCKPILED TOPSOILS.
26.

INSTALL PERMANENT VEGETATION TO WITHIN 5' OF THE WATERS EDGE AS PER THE PLANTING PLAN
27.

REMOVE ANY SEDIMENT DEPOSITS WITHIN THE LOW POINTS OF THE POND.
28.

REMOVE DEWATERING EQUIPMENT, SEDIMENT SETTLING BASINS AND ALLOW THE POND TO FILL.
29.

CONTRACTOR MAY MODIFY THIS SEQUENCE WITH WRITTEN APPROVAL FROM THE WETLANDS AGENT, LANDSCAPE ARCHITECT AND CIVIL ENGINEER.

REMAINING BOARDWALK, POND SIDWALK AND STREETSCAPE SEQUENCE OF CONSTRUCTION

1.

DEMOLISH ALL REMAINING ITEMS INCLUDING THE ROUTE 156 STREETSCAPE.
2.

STRIP TOPSOIL AND STOCKPILE ON-SITE.
3.

ROUGH GRADE THE SITE.
4.

INSTALL THE STREETSCAPE CURBS AND STONE WALLS
5.

INSTALL LIGHT POLE FOOTINGS
6.

INSTALL ELECTRICAL SERVICE CONDUITS, METER/DISTRIBUTION PEDESTAL, BRANCH CONDUITS.
7.

INSTALL THE STONE MEMORIAL PLAZA WALLS AND GRANITE MONUMENT
8.

INSTALL CONCRETE WALKS,STAIR, AND RAMPS
9.

INSTALL BOARDWALK DECKING, HANDRAILS, SEATING ELEMENTS AND ELECTRICAL CONDUITS.
10.

INSTALL LIGHT POLES & COMMISSION LIGHTING SYSTEM
11.

INSTALL SITE FURNISHINGS
12.

MIX POND MUCK WITH EXISTING STRIPPED TOP SOIL, PLACE AND FINE GRADE SOIL.
13.

HAUL EXCESS POND MUCK OFF-SITE OR AS DIRECTED BY THE TOWN
14.

INSTALL TREES, SHRUBS, PERENNIALS, AND REMAINING WETLAND PLANTS.
15.

REMOVE ANTI-TRACKING PADS AND INFILL WITH TOPSOIL
16.

HYDROSEED ALL TURF
17.

ESTABLISH AND IRRIGATE TURF UNTIL TWO MOWINGS
18.

REMOVE CONSTRUCTION FENCE
19.

CLEAN ALL SURFACES TO LIKE NEW CONDITION
20.

REMOVE E&S CONTROLS & REPAIR BARE SOIL

Legend:

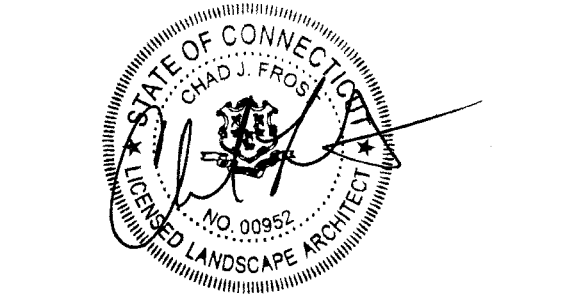
	LIMIT OF WORK LINE		GAS METER		DEMO ASPHALT
	EXISTING CONTOUR MAJOR		GAS VALVE		DEMO CONCRETE
	EXISTING CONTOUR MINOR		DRAINAGE MANHOLE		CLEAR AND GRUB
	PROPOSED CONTOUR		CATCHBASIN		DEMO TREE
	SPOT ELEVATION EXISTING		TELEPHONE MANHOLE		FULL DEPTH ASPHALT ROADWAY
	SPOT ELEVATION PROPOSED		PEDESTRIAN LIGHT POLE		ASPHALT SIDEWALK
	EXISTING STONE WALL		UTILITY COMPANY LIGHT		CONCRETE SIDEWALK
	PROPOSED RETAINING WALL		UTILITY POLE		CONCRETE SIDEWALK - WETLAND
	OVERHEAD WIRES		EXISTING STREET SIGN		POROUS PAVERS
	UNDERGROUND ELECTRIC		PROPOSED STREET SIGN		STONE CURBING
	SANITARY LINE		ROCK		ASPHALT CURB TO STONE CURB TRANSITION
	WATER LINE				
	TELEPHONE LINE				
	GAS LINE				
	CHAIN LINK FENCE		EXISTING VEGETATION		
	HAYBALE BARRIER		EXISTING TREE		
	SILT FENCE		PROPOSED TREE		
	SILT SOCK		FLUSH TRANSITION		
	TURBIDITY CURTAIN				
	TREE PROTECTION FENCE		BENCH		
	WATER MANHOLE		TRASH & RECYCLING CAN		
	WATER SHUT OFF		BIKE RACK		
	WATER VALVE				
	WATER METER				
	FIRE HYDRANT				

ABBREVIATIONS:

HP	HIGH POINT	O/S	OFF SET
LP	LOW POINT	C	CENTER LINE
TW	TOP OF WALL	±	PLUS/MINUS
BW	BOTTOM OF WALL	PC	POINT OF CURVE
TC	TOP OF CURB	PRC	POINT OF REVERSE CURVE
BC	BOTTOM OF CURB	PT	POINT OF TANGENT
TS	TOP OF STEP	LT	LEFT
BS	BOTTOM OF STEP	RT	RIGHT
CB	CATCH BASIN	L	LENGTH
TF	TOP OF FRAME	R	RADIUS
INV	INVERT	D	DEGREES
MH	MAN HOLE	C	CHORD LENGTH
RCP	REINFORCED CONCRETE PIPE	CNR	CORNER
VIF	VERIFY IN FIELD	BLDG	BUILDING
FFE	FINISH FLOOR ELEVATION	MAX	MAXIMUM
VIF	VERIFY IN FIELD	HDPE	HIGH DENSITY POLYETHYLENE
EX	EXISTING		
EQ	EQUAL		

WATERFORD CIVIC TRIANGLE

184 Boston Post Road Waterford, CT 06385



WETLANDS PERMITTING

Revisions	Date

PROJECT NOTES

Scale	
Date	August 23, 2022
K+F Project No.	2021014
Drawing No.	

L-1.1

- | | |
|---|-------------------------------------|
|  | (TC) TURBIDITY CURTAIN |
|  | (SS) SILT SOCK |
|  | (TC) TEMPORARY CONSTRUCTION FENCE |
|  | (GSF) GEOTEXTILE SILT FENCE |
|  | (HB) HAYBALE BARRIER |
|  | (CE) CONSTRUCTION ENTRANCE |
|  | (TSS) TEMPORARY SOIL STOCKPILE |
|  | (ISD) INLET SEDIMENT CONTROL DEVICE |
|  | (WB) WASH OUT BOX |

- SOIL CLASSIFICATION LEGEND**
- 23A - Sudbury Sandy Loam (0-5%)
- 60B - Canton and Charlton Fine Sandy Loam (3-8%)
- 61B - Canton and Charlton Fine Sandy Loam (0-8%)
- 62C - Canton and Charlton Fine Sandy Loam (3-15%)
- 306 - Udorthents - Urban Land Complex
- W - Water

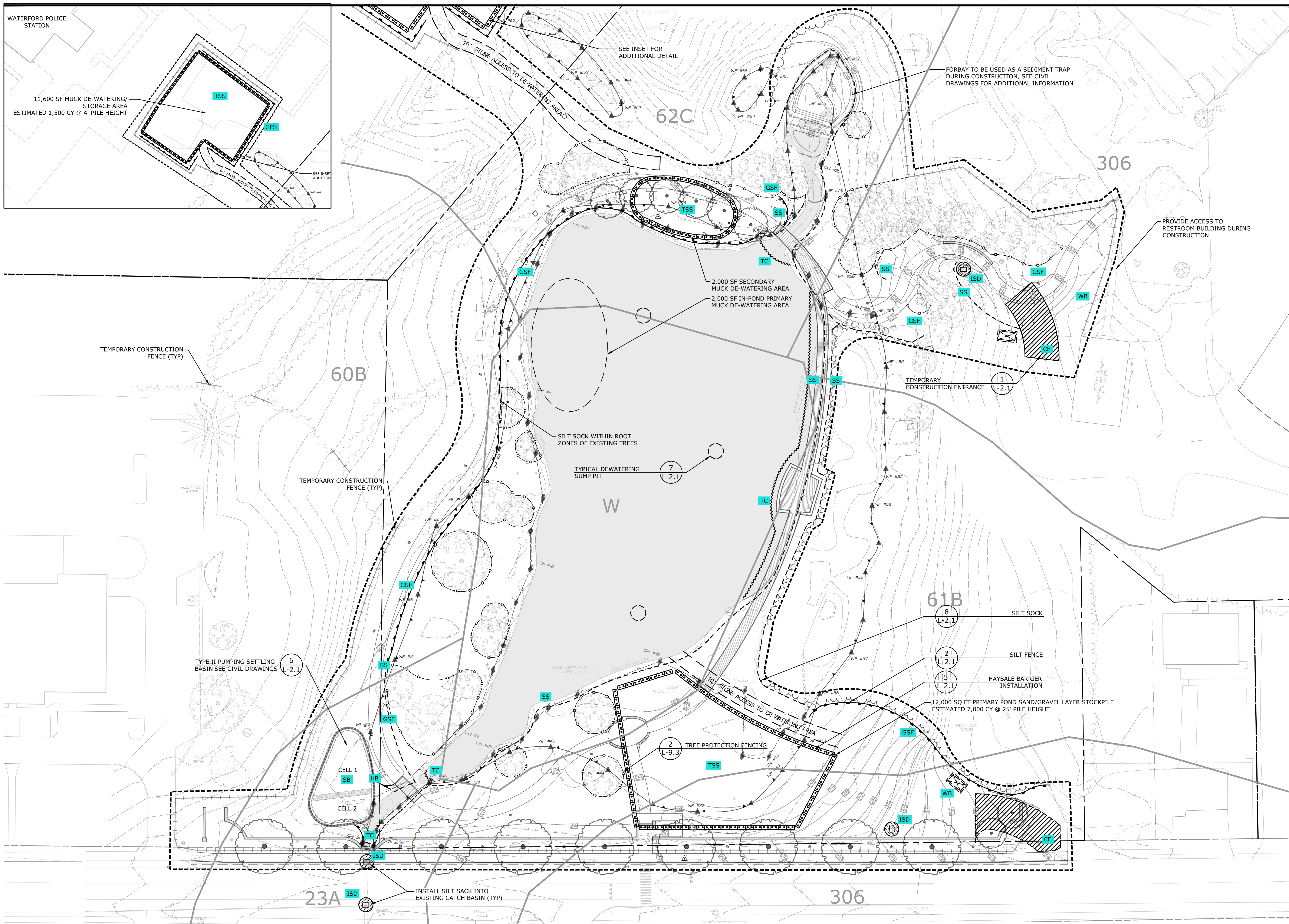


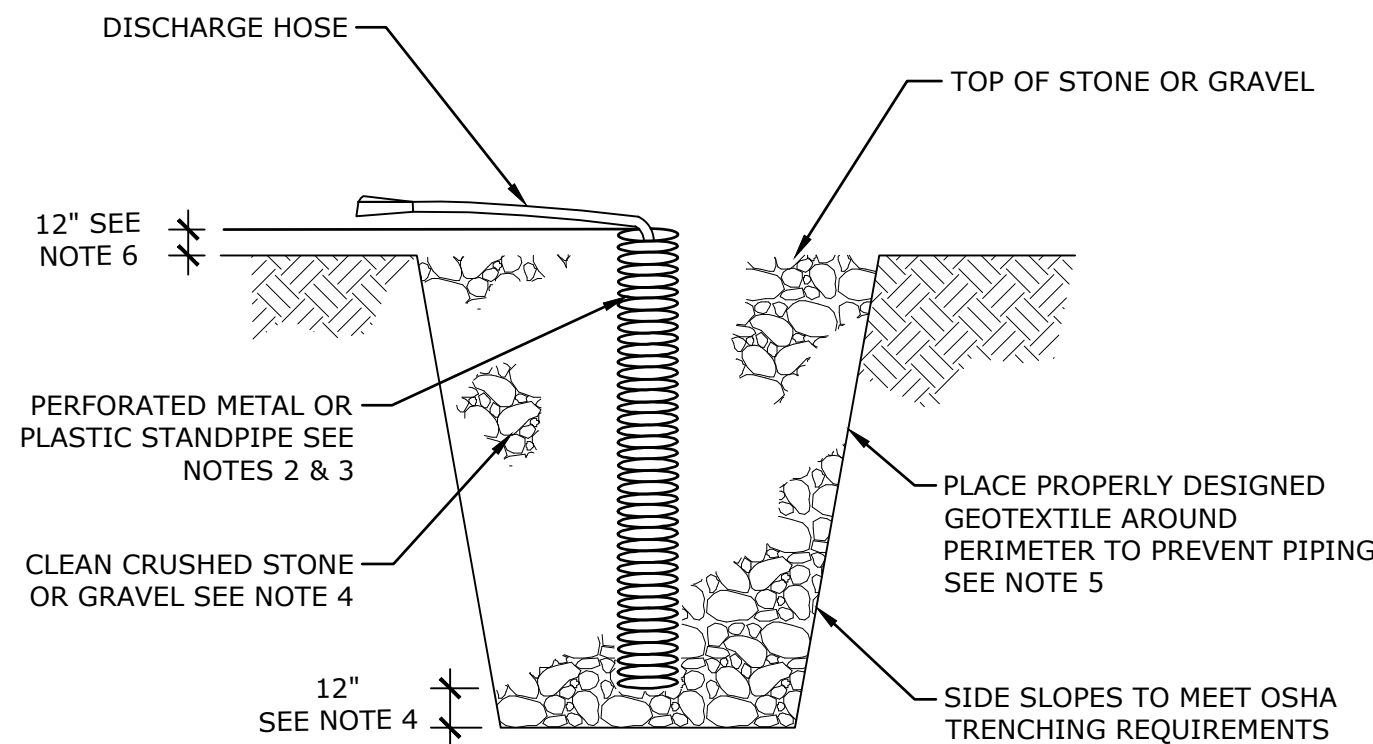
Revisions	Date
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Scale	1" = 30'
Date	August 23, 2022
K+F Project No.	2021014
Drawing No.	

L-2.0





NOTES:

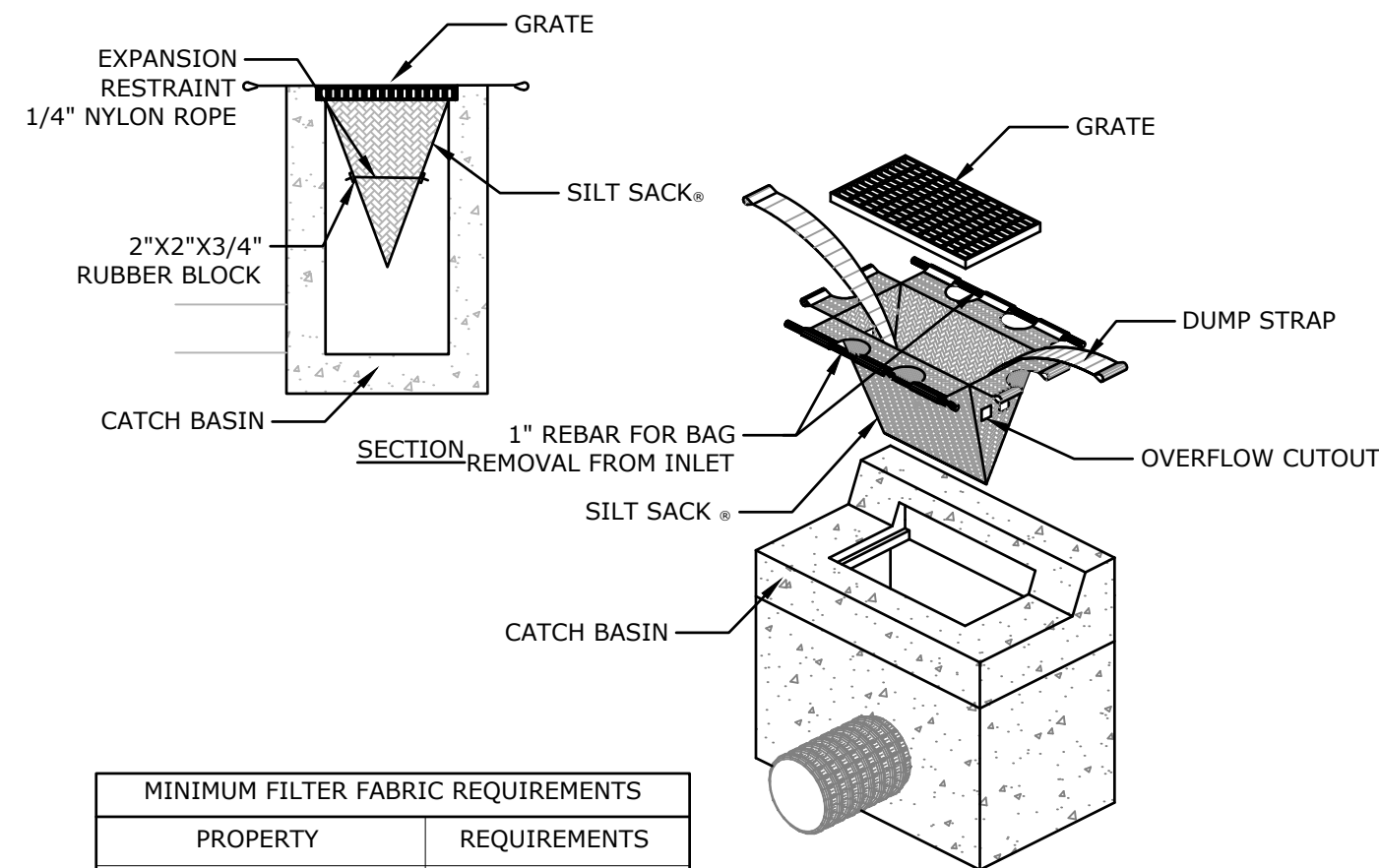
- THE CONTRACTOR IS RESPONSIBLE FOR DESIGN OF THE DEWATERING SYSTEM AND MUST COMPLY WITH THE REQUIREMENTS SET FORTH IN SECTION 2.04 "COFFERDAM AND DEWATERING, COFFERDAM MATERIAL LEFT IN PLACE" OF THE CT DOT FORM 818 OR THE MOST CURRENT EDITION. THIS DETAIL AND THE FOLLOWING TEXT IS FOR REFERENCE ONLY AND SHALL NOT BE USED AS A CONSTRUCTION DETAIL.
- OVERALL SUMP PIT DEPTH SHALL BE COMPATIBLE WITH ANTICIPATED SEEPAGE RATES AND PUMP SIZE TO BE USED
- THE STANDPIPE DIAMETER AND NUMBER OF PERFORATIONS SHALL BE COMPATIBLE WITH THE PUMP SIZE BEING USED
- PERFORATIONS IN THE STANDPIPE SHALL BE EITHER CIRCULAR OR SLOTS

PERFORATION SIZE SHALL NOT EXCEED 1/2" DIAMETER

- CRUSHED STONE OR GRAVEL SHALL BE NO SMALLER THAN CT DOT #67 SIZE NOR LARGER THAN CT DOT #3 SIZE

CRUSHED STONE SHALL EXTEND A MINIMUM OF 12" BELOW THE BOTTOM OF STANDPIPE

- IF EXCESSIVE MOVEMENT OF THE FINE SOIL PARTICLES FROM THE SURROUNDING EXISTING SOILS IS ANTICIPATED, A PROPERLY DESIGNED GEOTEXTILE SHALL BE PLACED BETWEEN THE EXISTING SOILS AND THE CRUSHED STONE OR GRAVEL BACKFILL
- THE STANDPIPE SHALL EXTEND A MINIMUM 12" ABOVE THE SURROUNDING GROUND
- EFFLUENT FROM DEWATERED WORK AREA(S) SHOULD NOT BE DISCHARGED DIRECTLY INTO ANY WATERWAY, BUT BE PROCESSED THROUGH AND APPROPRIATE TREATMENT STRUCTURE(S)



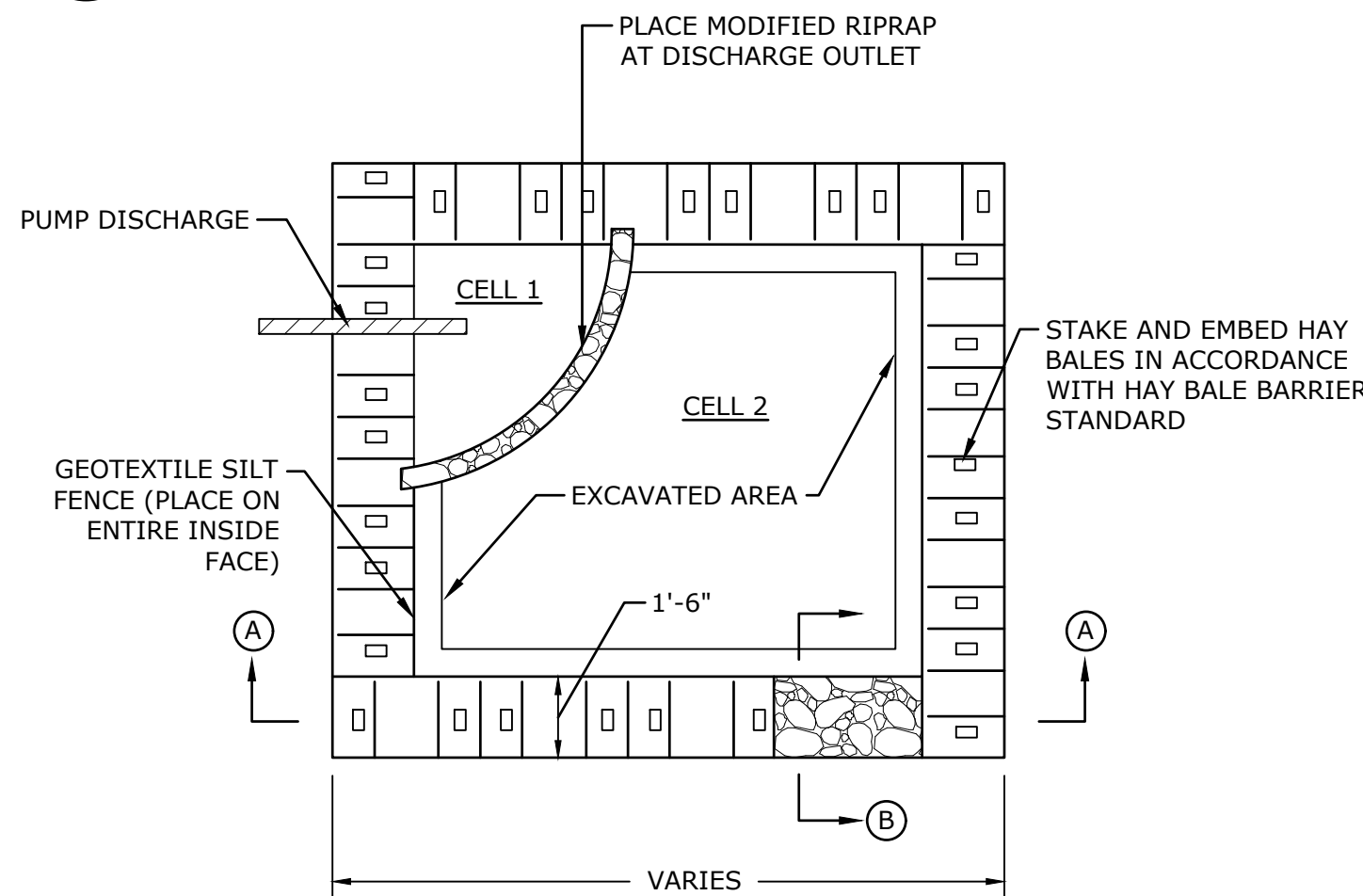
MINIMUM FILTER FABRIC REQUIREMENTS	
PROPERTY	REQUIREMENTS
TENSILE STRENGTH AT 15% (MAX) ELONGATION	167 LBS
MULLEN BURST STRENGTH	900 LBS
PERMITTIVITY	.862 SEC
FLOW RATE	66 GAL/MINUTE/SF
UV STABILITY	96%

ISD

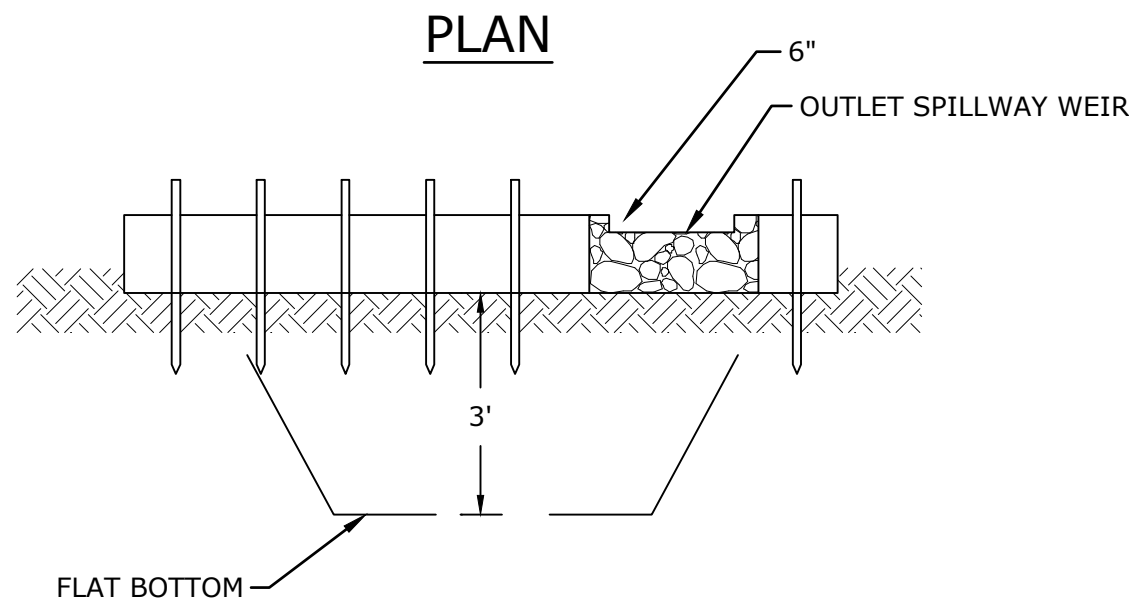
7 TYPICAL DEWATERING SUMP PIT

NTS

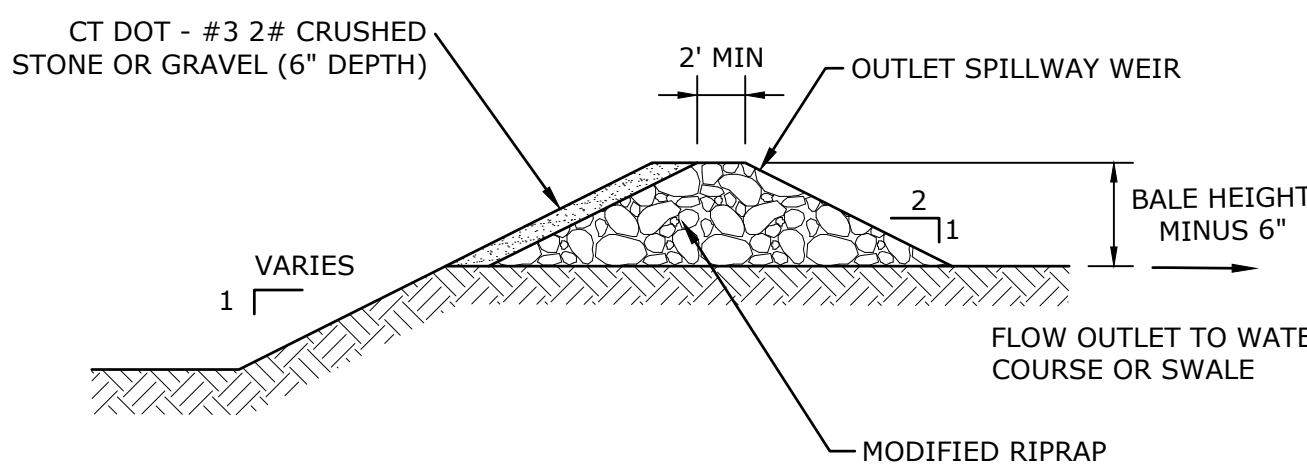
P-2021-014-WATE-106



PLAN



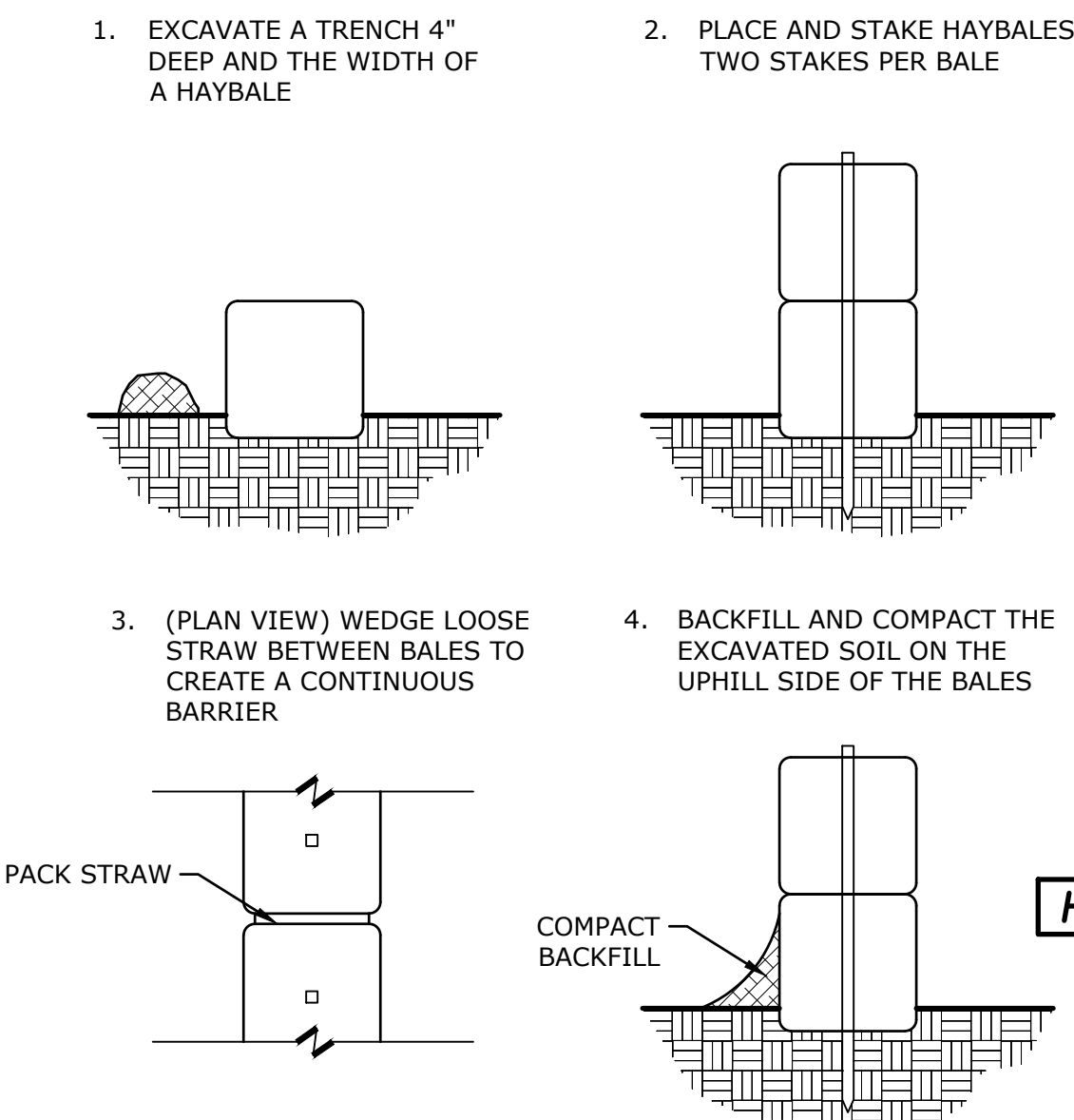
SECTION A-A



SECTION B-B

- NOTE:
- DIMENSIONS VARY ACCORDING TO PUMPING RATES
 - MINIMUM REQUIRED STORAGE IS CALCULATED FROM CREST OF SPILLWAY WEIR

SB

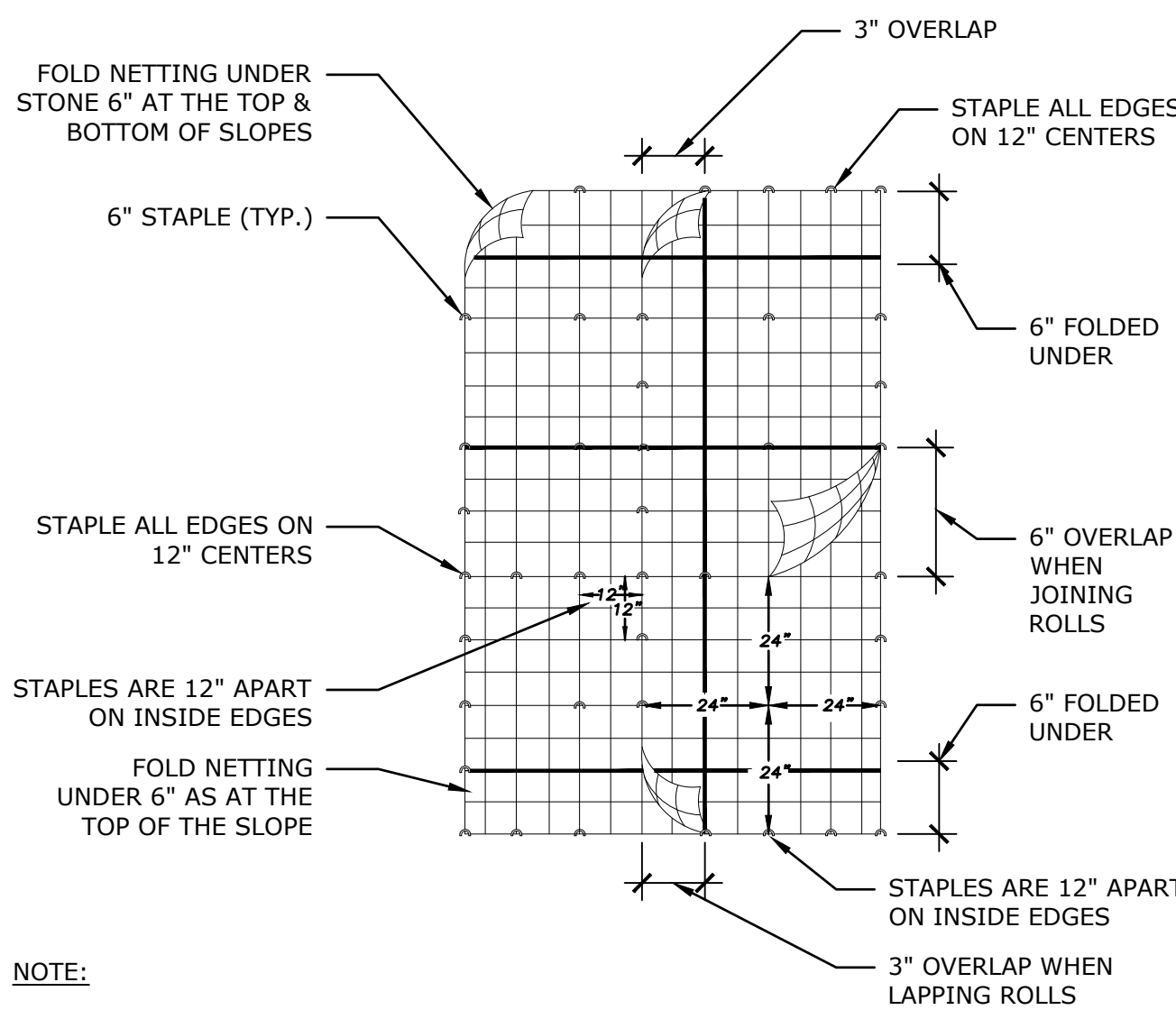


HB

5 HAYBALE BARRIER INSTALLATION

NTS

P-2021-014-WATE-10



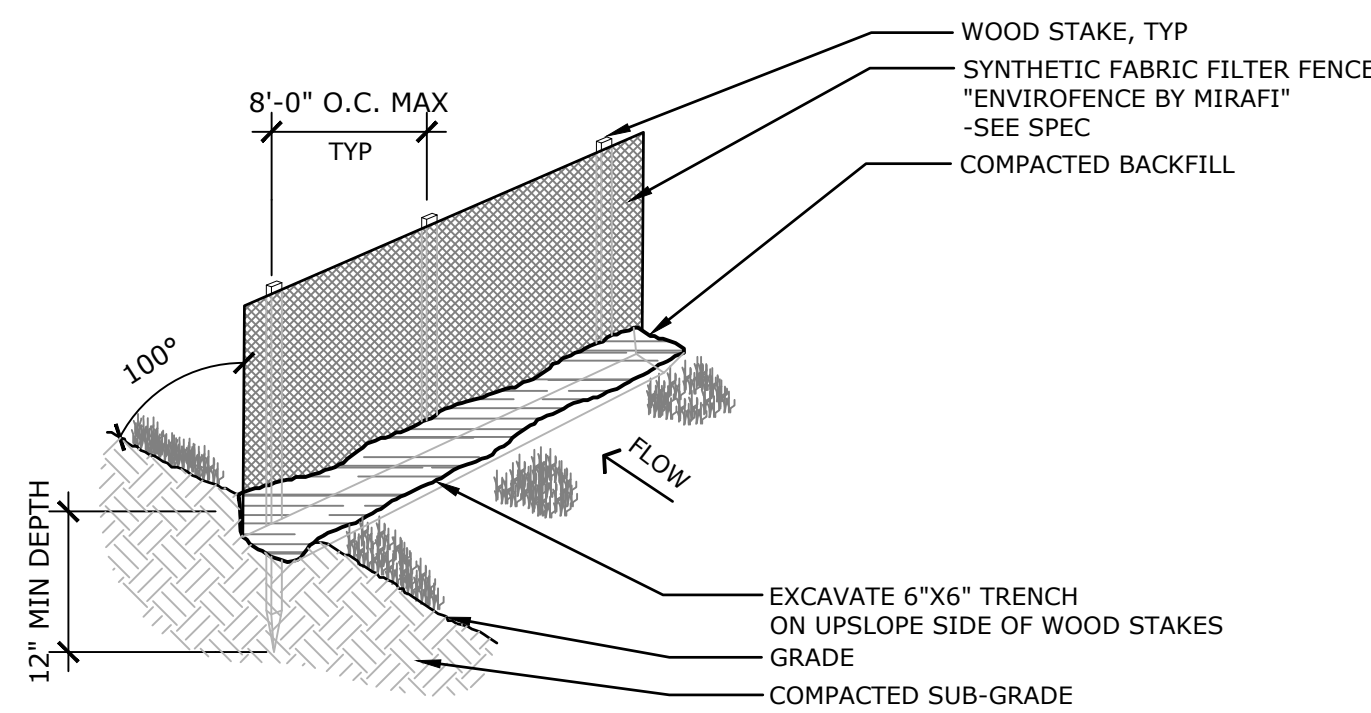
NOTE:

- NO STAPLES TO BE OVER 24" APART CENTER TO CENTER.
- INSTALL ON ALL SLOPES STEEPER THAN 6:1

3 CATCHBASIN SEDIMENT CONTROL DEVICE

NTS

P-2021-014-WATE-04



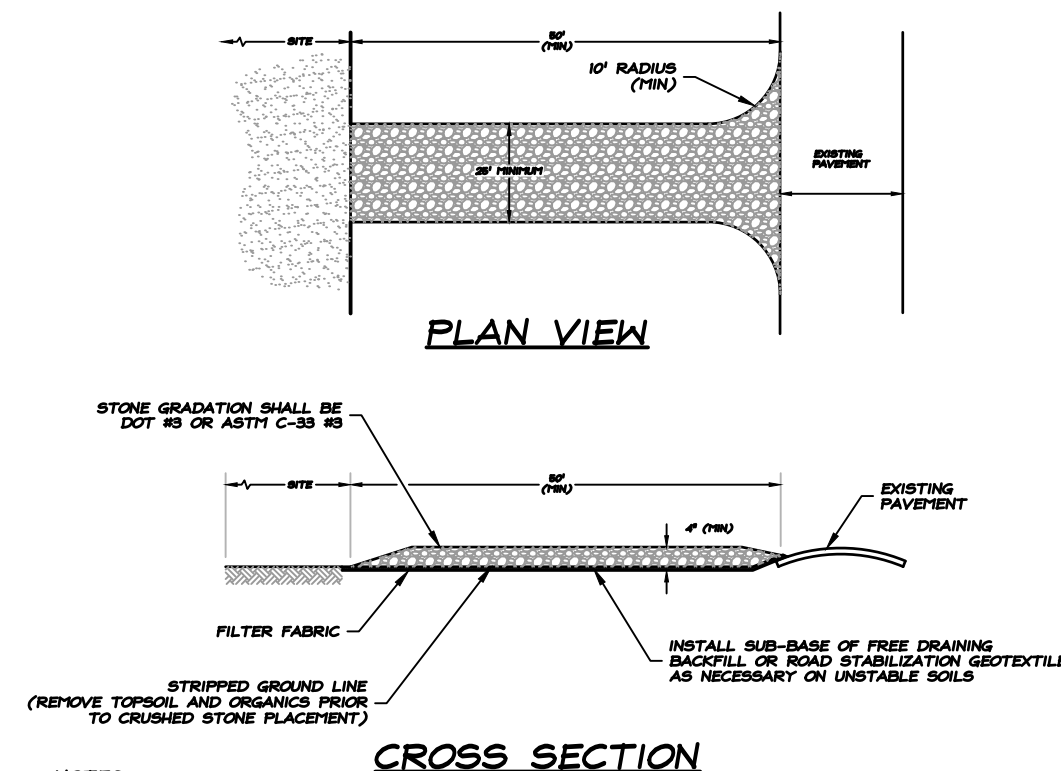
MINIMUM FILTER FABRIC REQUIREMENTS	
PHYSICAL PROPERTIES	REQUIREMENTS
FILTERING EFFICIENCY	75% MINIMUM
TENSILE STRENGTH AT 20% (MAX) ELONGATION	EXTRA STRENGTH 50 LBS/LI (MIN) STANDARD STRENGTH 30 LBS/LI (MIN)
FLOW RATE	0.30 GAL/SQ.FT./MINUTE (MIN)

GSF

2 SILT FENCE

NTS

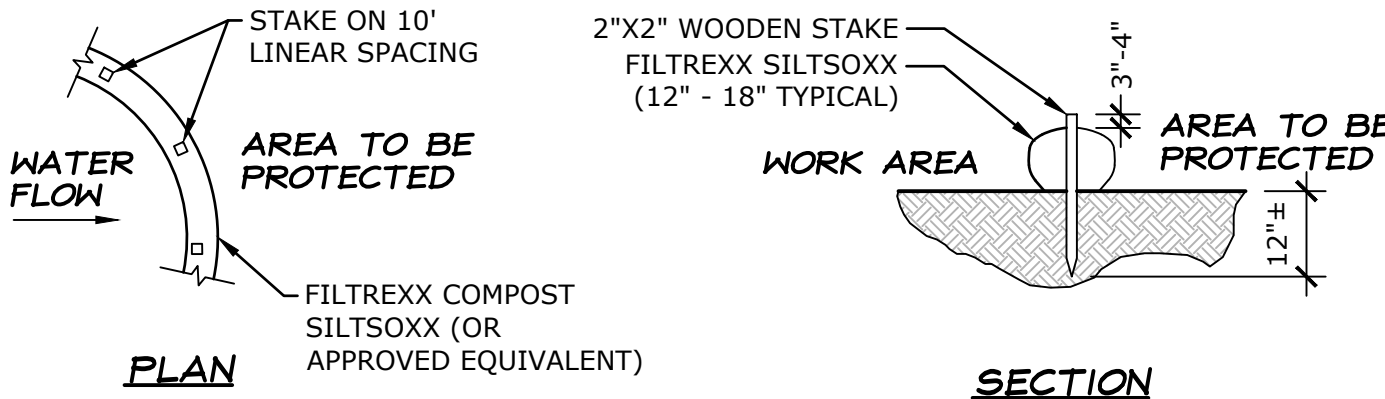
P-2021-014-WATE-03



NOTES:

- ENTRANCE WIDTH SHALL BE A TWENTY-FIVE FOOT (25') MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY
- THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANOUT OF ANY TREASURES USED TO TRAP SEDIMENT
- ALL SEDIMENT SPILLED, DROPPED, HACHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY
- PERIODIC INSPECTION AND MAINTENANCE SHALL BE PROVIDED AS NEEDED
- CONSTRUCTION ENTRANCE IS TO BE LOCATED IN THE FIELD WITH LANDSCAPE ARCHITECT AND CONTRACTOR

CE



PLAN

SECTION

MINIMUM FILTER FABRIC REQUIREMENTS	
PHYSICAL PROPERTIES	REQUIREMENTS
FILTERING EFFICIENCY	75% MINIMUM
TENSILE STRENGTH AT 20% (MAX) ELONGATION	EXTRA STRENGTH 50 LBS/LI (MIN) STANDARD STRENGTH 30 LBS/LI (MIN)
FLOW RATE	0.30 GAL/SQ.FT./MINUTE (MIN)

SS

NOTES:

- ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS OR APPROVED EQUIVALENT
- COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS
- SILT SOCK IS DEPICTED FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER THE ENGINEER
- COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

8 SILT SOCK

NTS

P-2021-014-WATE-05

6 TYPE II PUMPING SETTLING BASIN

NTS

P-2021-014-WATE-105

4 EROSION CONTROL MATTING

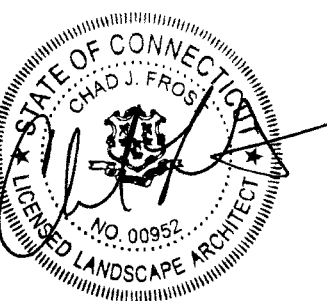
NTS

P-2021-014-WATE-69

1 TEMPORARY CONSTRUCTION ENTRANCE

NTS

P-2021-014-WATE-02



WETLANDS
PERMITTING

Revisions Date

EROSION AND
SEDIMENT CONTROL
DETAILS

Scale AS NOTED

Date August 23, 2022

K+F Project No. 2021014

Drawing No.

WATERFORD
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LANDSCAPE
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FROST
ARCHITECTURE

1 HIGH STREET
MYSTIC, CT 06355
860.572.0784
f866.283.3840

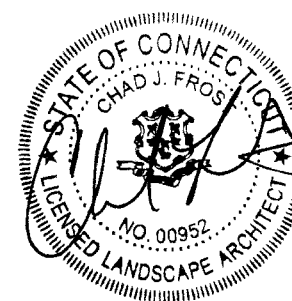


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YANTIC RIVER
CONSULTANTS, LLC

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(860) 367-7264

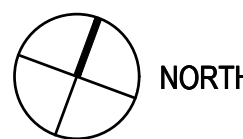
LEGEND:

- ASPHALT - FULL DEPTH
- BITUMINOUS WALKWAY
- CONCRETE PAVEMENT
- CONCRETE PAVEMENT - WETLANDS
- POROUS PAVERS
- BOARDWALK/BRIDGE
- WETLANDS PLANTING
- HYDROSEEDDED TURF
- STONE WALL
- GRANITE CURB
- TRANSITION FROM GRANITE TO BITUMINOUS CURB
- TREE



WETLANDS
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Revisions Date

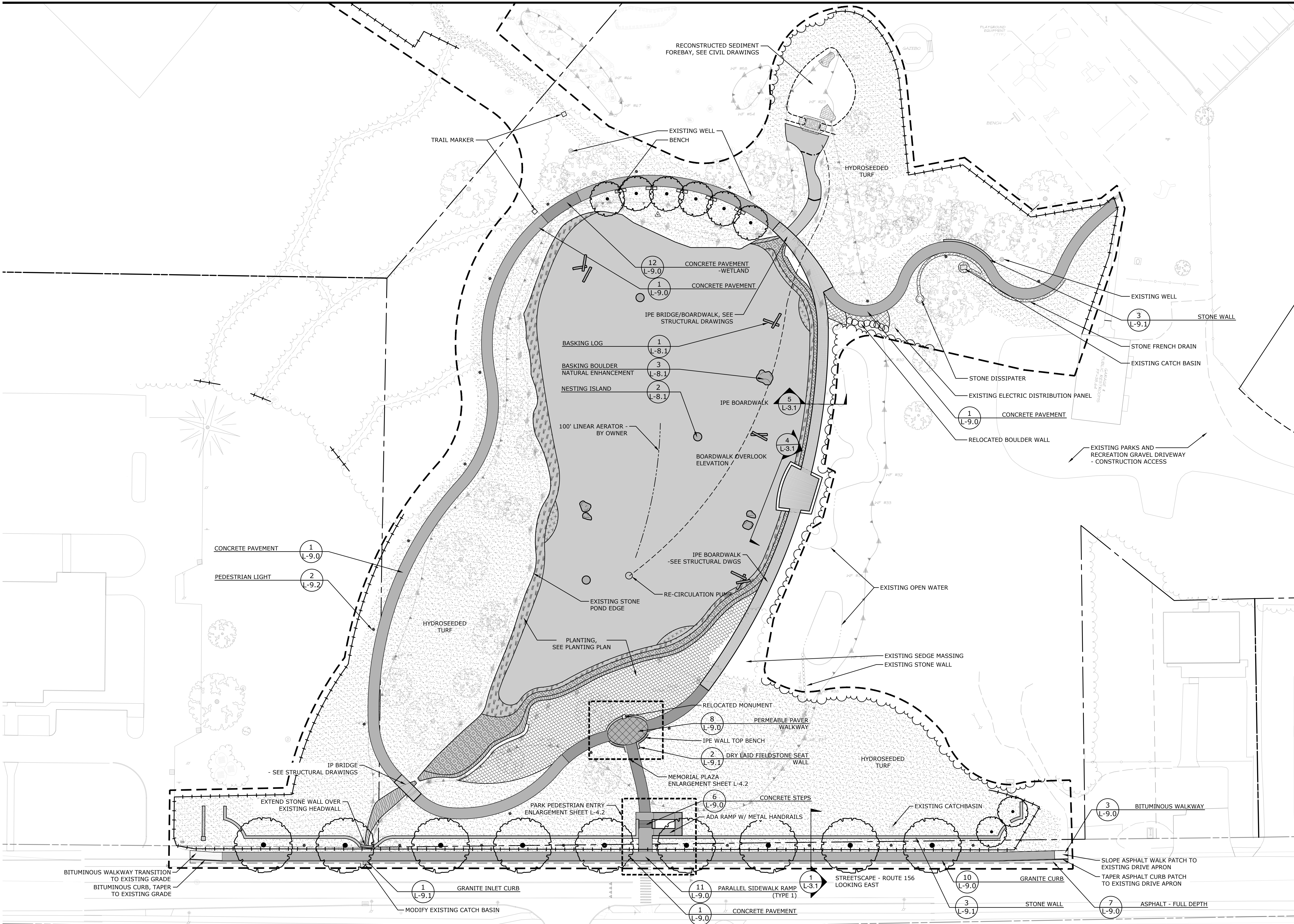


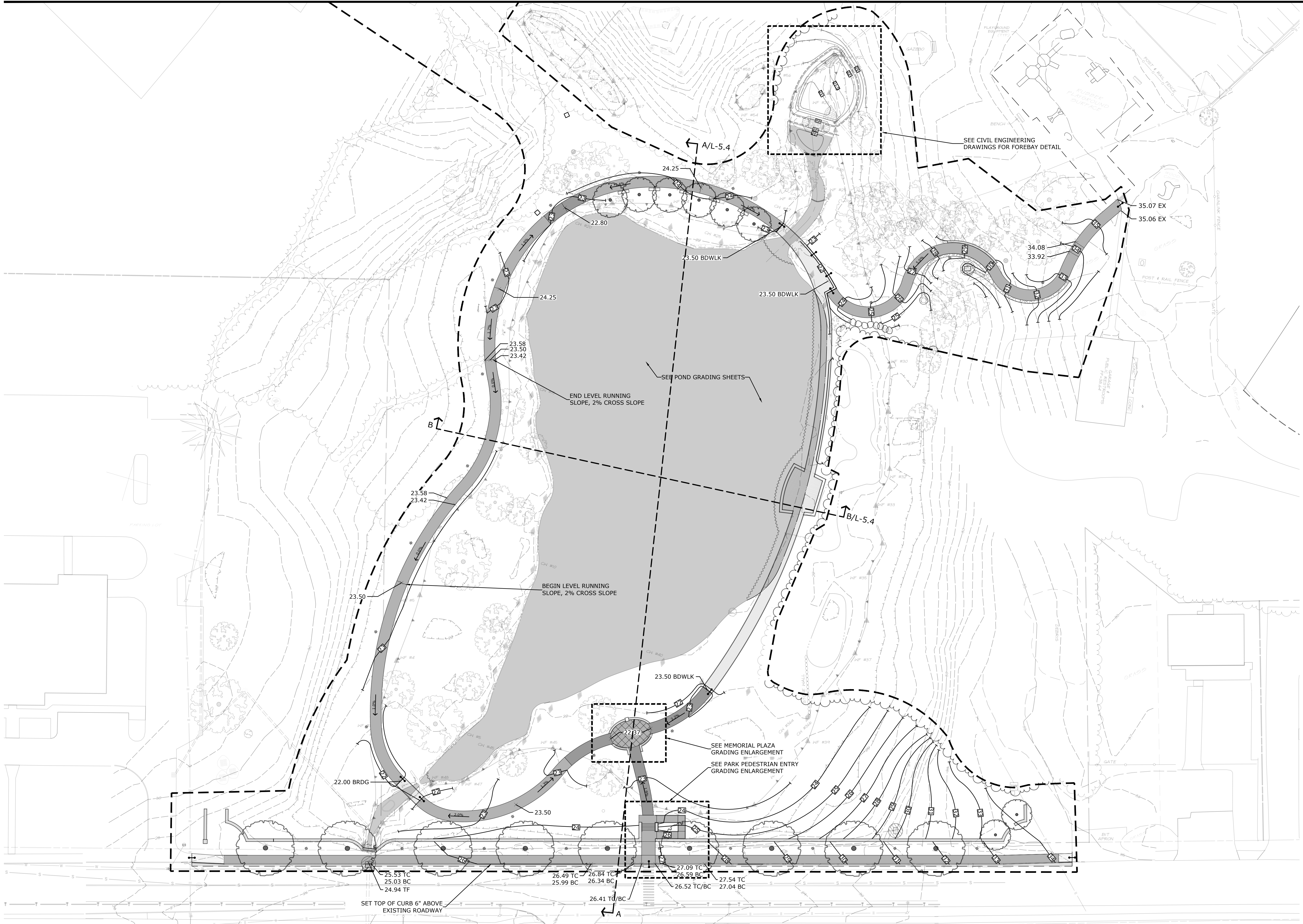
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SITE IMPROVEMENTS

Scale 1" = 30'
Date August 23, 2022
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Drawing No.

L-4.0





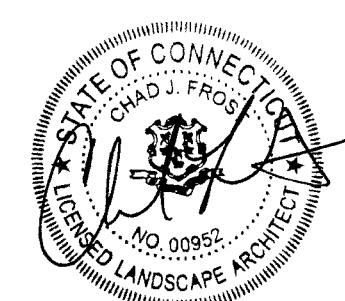
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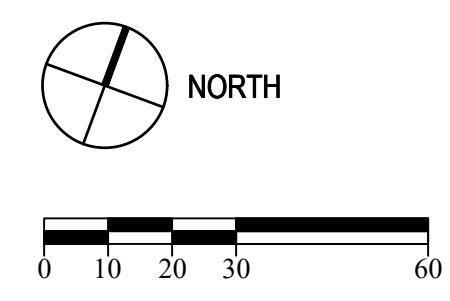
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LEBANON, CT 06249
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- LEGEND:
- 22 --- EXISTING MINOR CONTOUR
 - 35 --- EXISTING MAJOR CONTOUR
 - 26 --- PROPOSED CONTOUR
 - 26.52 PROPOSED SPOT ELEVATION
 - 5.0% PROPOSED RUNNING SLOPE
 - FLUSH TRANSITION



WETLANDS PERMITTING

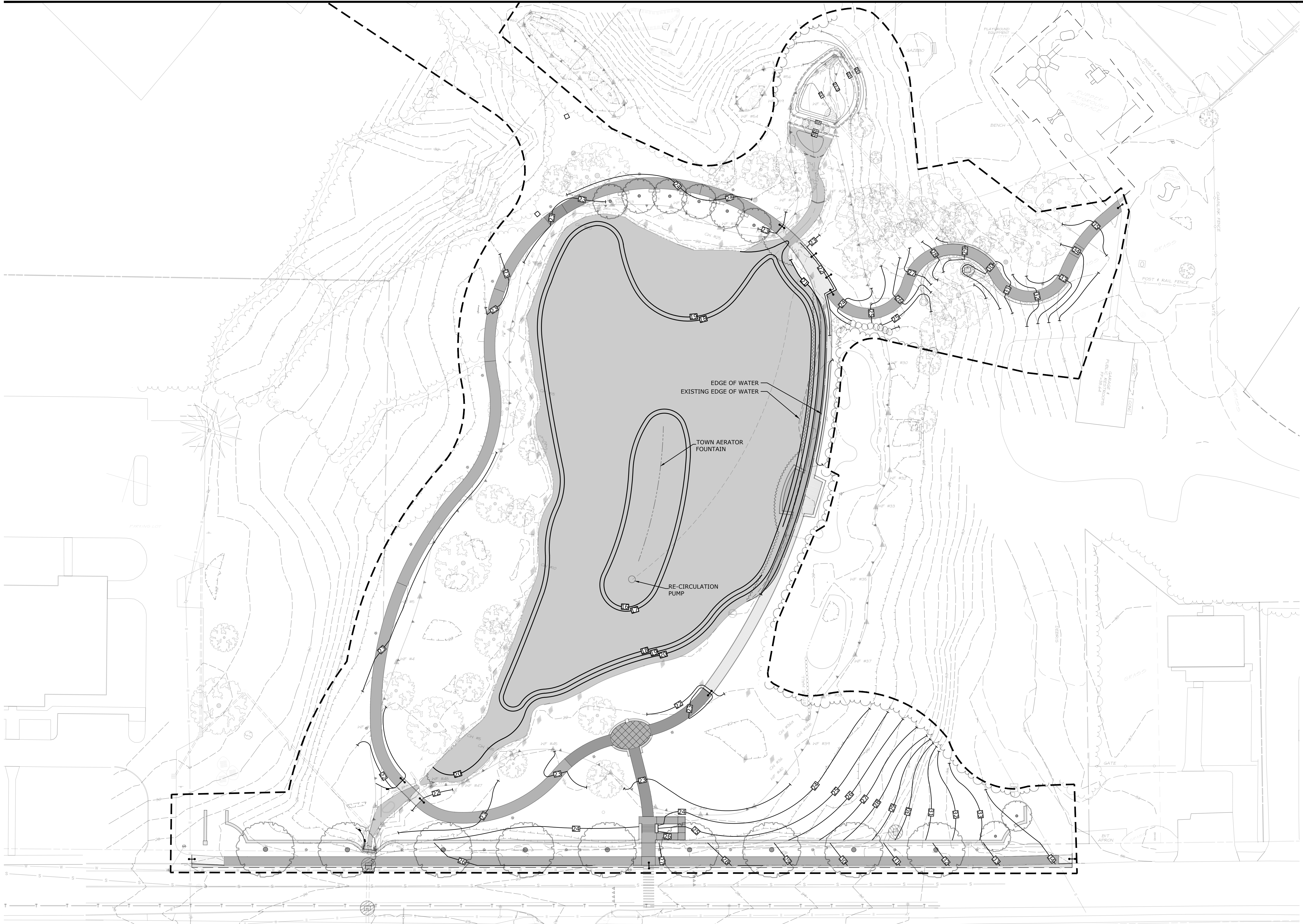
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SITE GRADING

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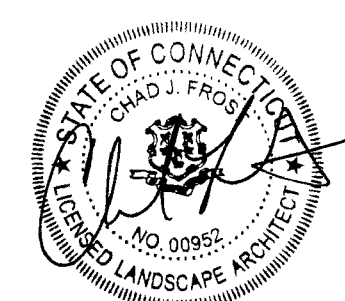
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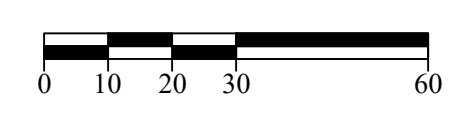
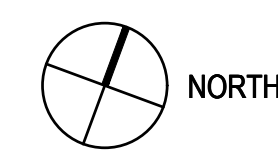
ESTIMATED ORGANIC MUCK REMOVAL
= ±1,800 CY

ESTIMATED SEDIMENT REMOVAL
(EXISTING AVERAGE GRADE EL 18.89)
= ±2,400 CY



WETLANDS PERMITTING

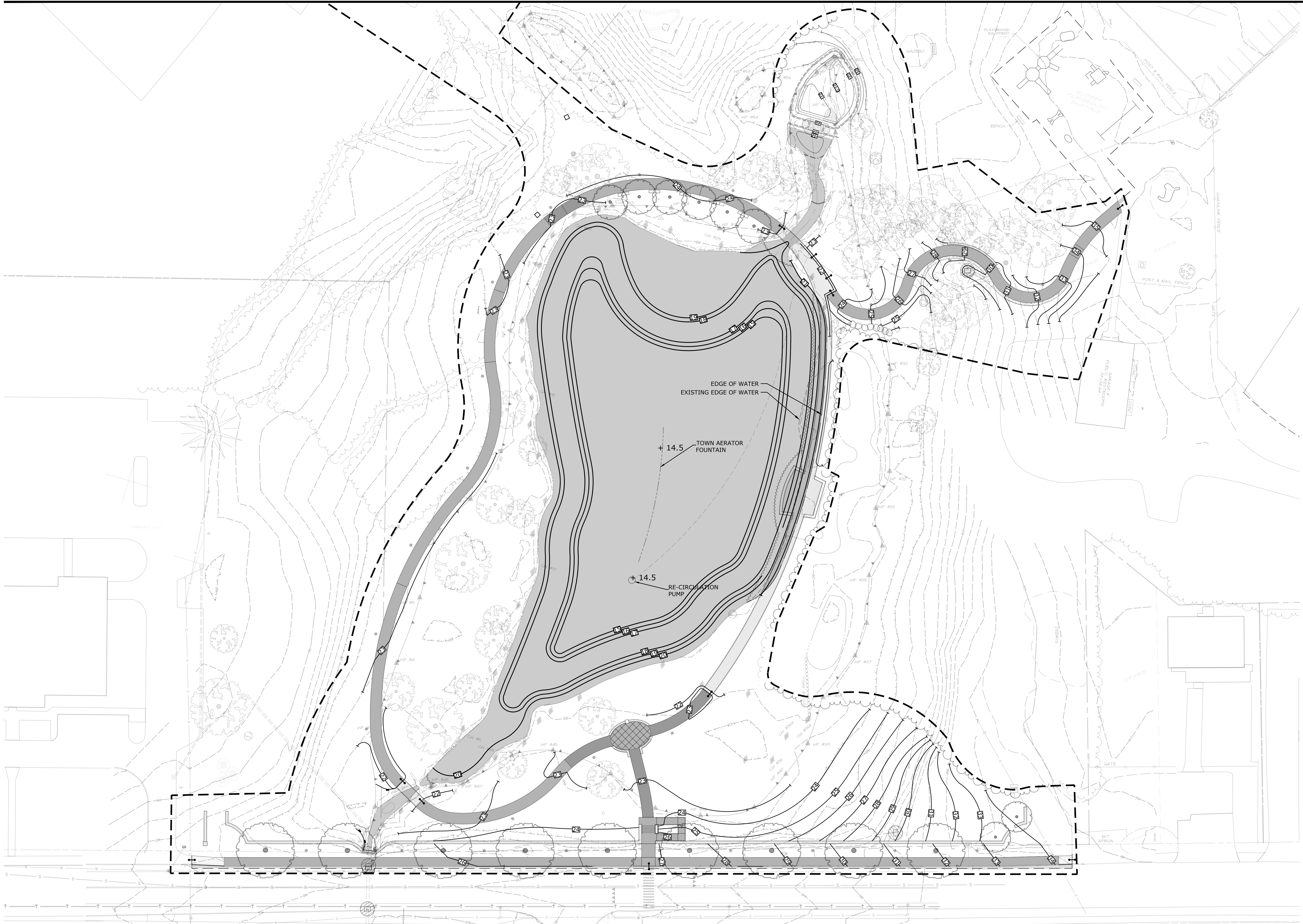
Revisions	Date



POND DREDGING BASE BID

Scale	1" = 30'
Date	August 23, 2022
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L-5.2



WATERFORD CIVIC TRIANGLE

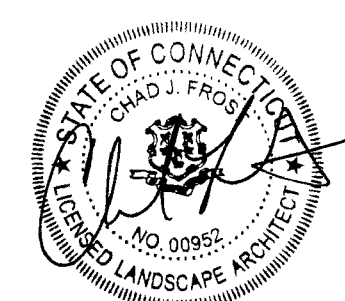
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LANDSCAPE
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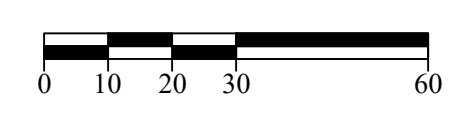
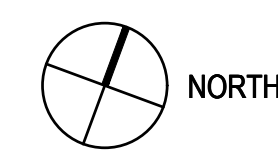
ESTIMATED ORGANIC MUCK REMOVAL
= ±1,800 CY

ESTIMATED SEDIMENT REMOVAL
(EXISTING AVERAGE GRADE EL 18.89)
= ±4,800 CY



WETLANDS PERMITTING

Revisions	Date



POND DREDGING ADD ALTERNATE

Scale	1" = 30'
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L-5.3

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CIVIC TRIANGLE

184 Boston Post Road Waterford, CT 06385

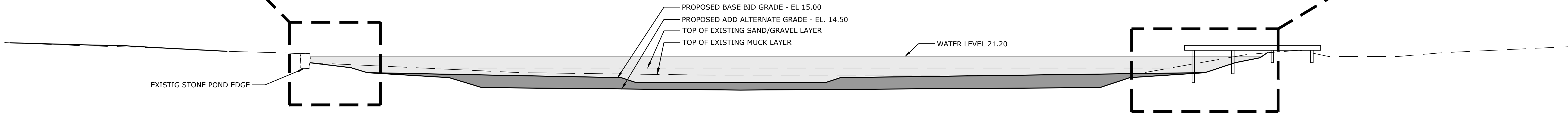
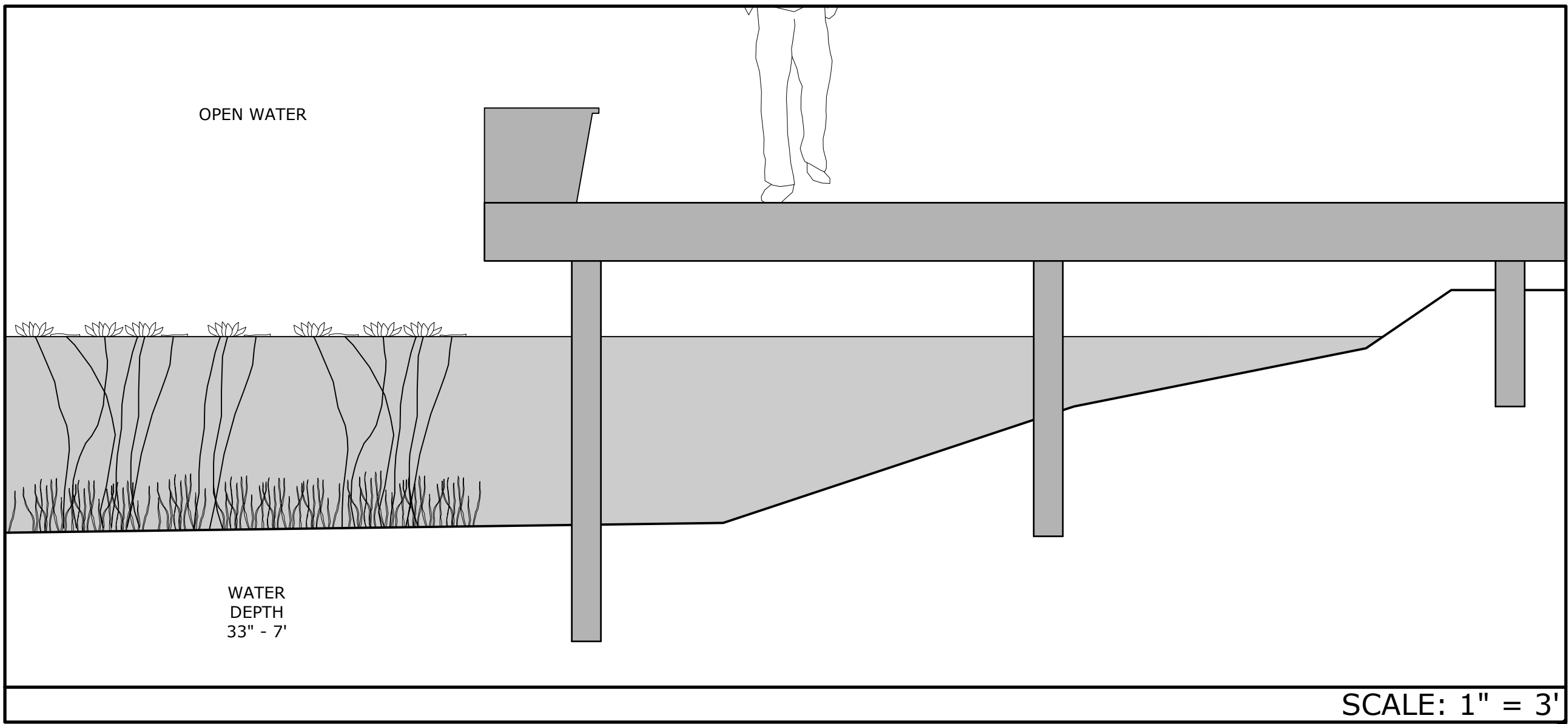
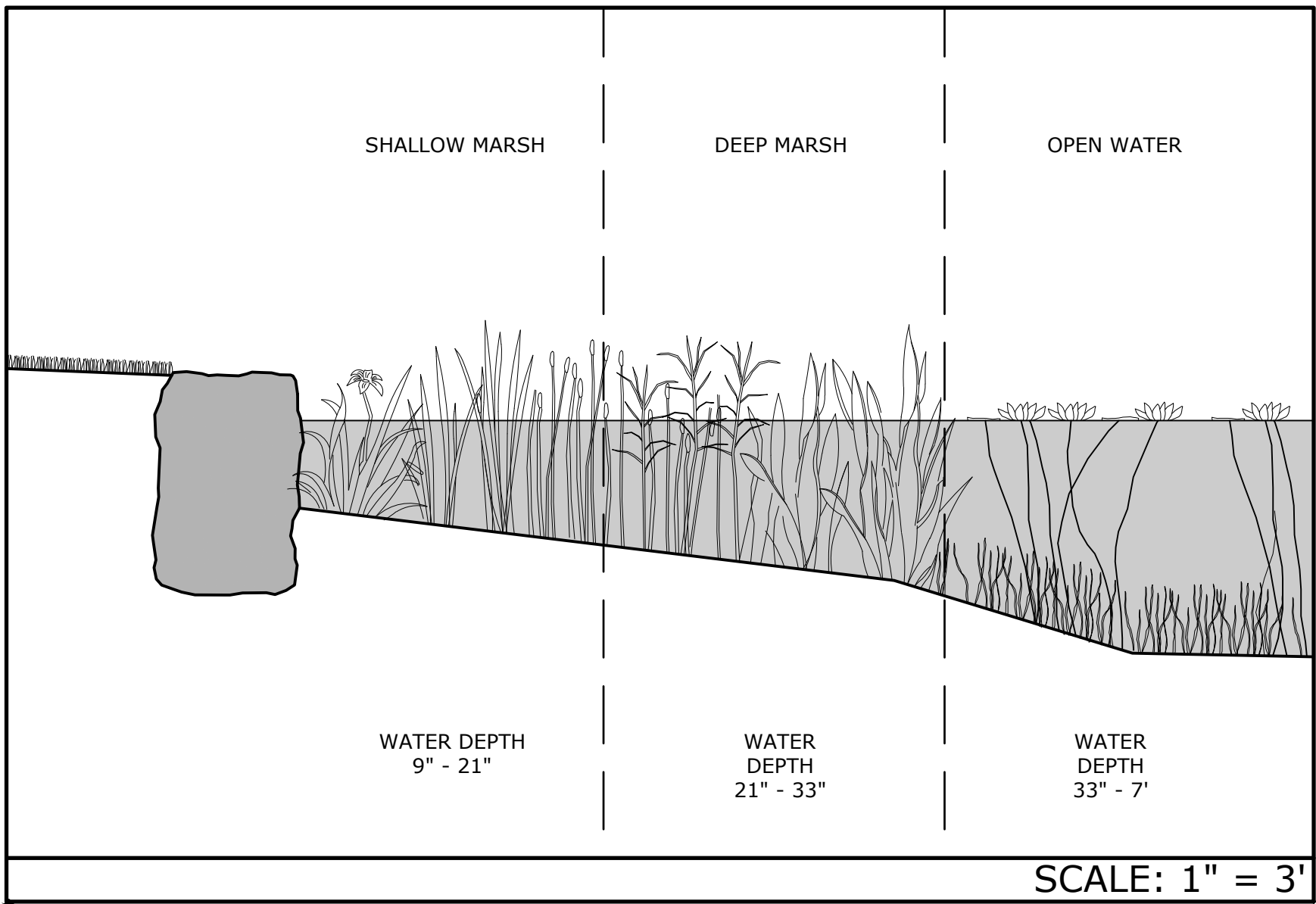
LANDSCAPE
KENT+
FROST
ARCHITECTURE

1 HIGH STREET
MYSTIC, CT 06355
860.572.0784
f866.283.3840

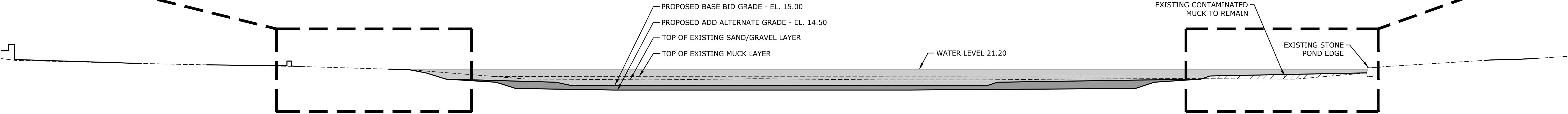
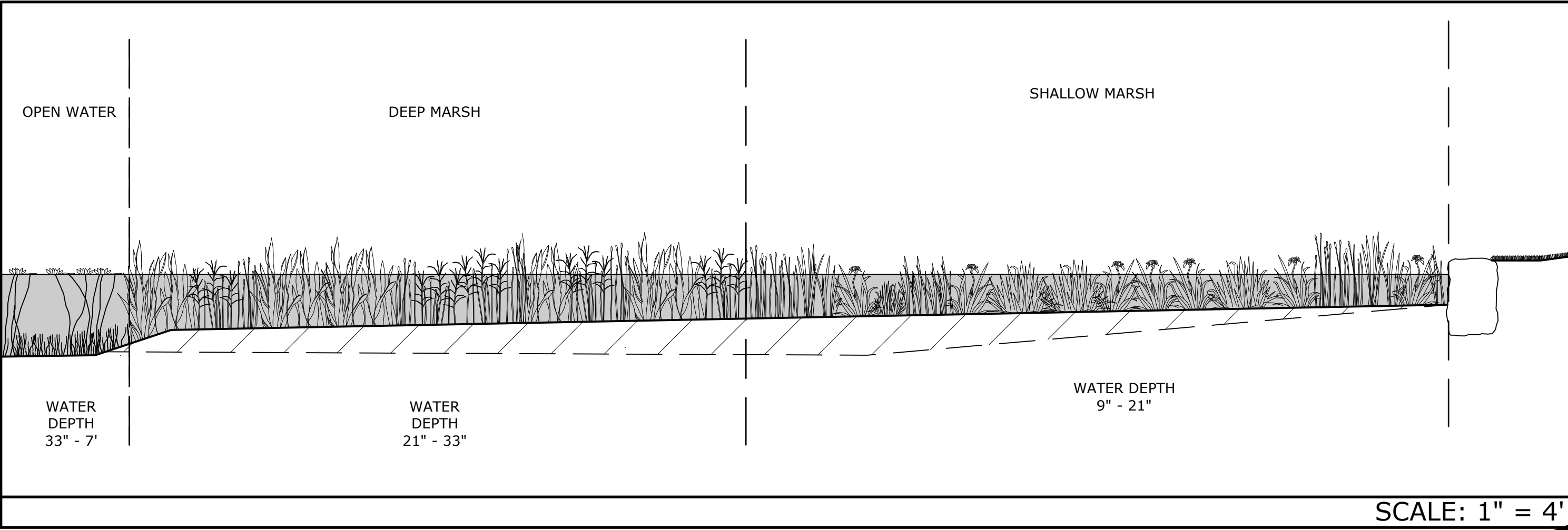
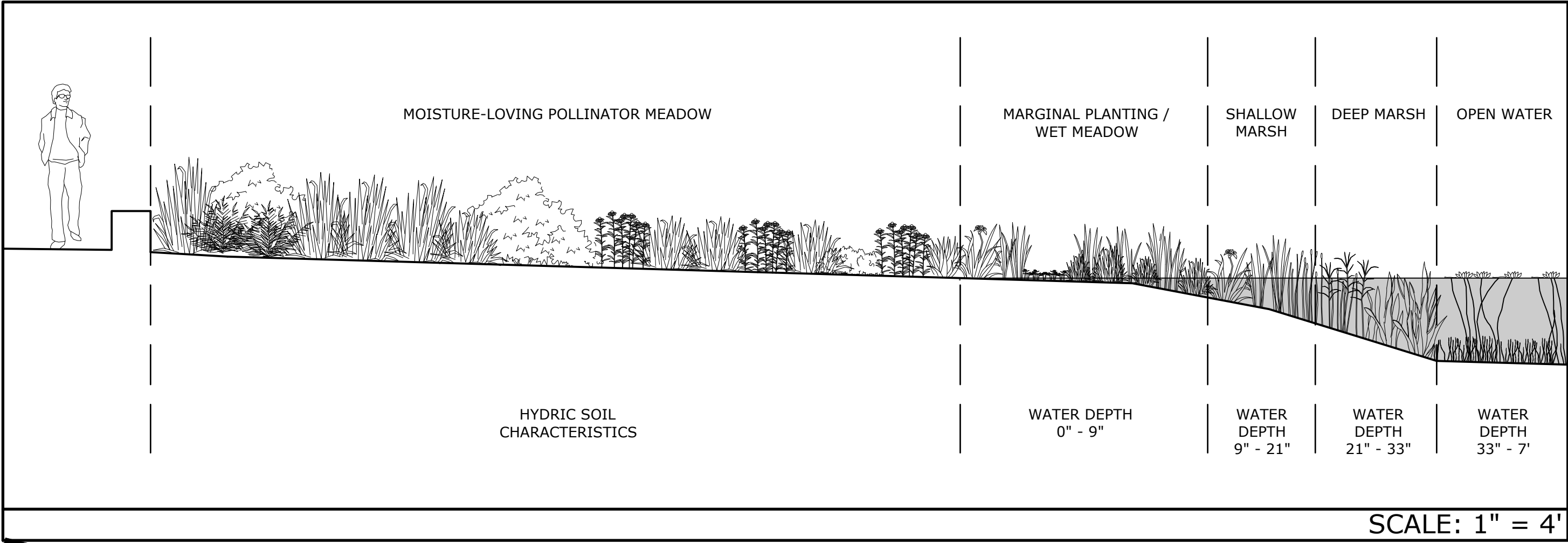


YRC
YANTIC RIVER
CONSULTANTS, LLC

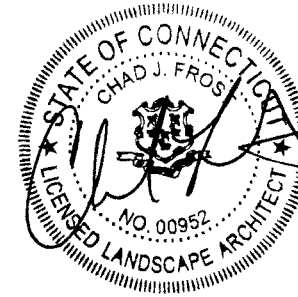
191 NORWICH AVENUE
LEBANON, CT 06249
(860) 367-7264



SITE SECTION B SCALE: 1" = 10'

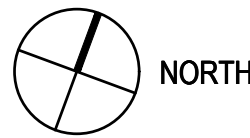


SITE SECTION A SCALE: 1" = 16'



WETLANDS
PERMITTING

Revisions	Date



POND SECTIONS

Scale	AS NOTED
Date	August 23, 2022
K+F Project No.	2021014
Drawing No.	

L-5.4



WATERFORD
CIVIC TRIANGLE

184 Boston Post Road Waterford, CT 06385

LANDSCAPE
**KENT+
FROST**
ARCHITECTURE
1 HIGH STREET
MYSTIC, CT 06355
860.572.0784
f866.283.3840

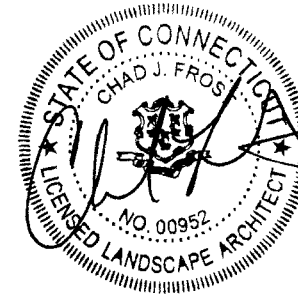
YRC
YANTIC RIVER
CONSULTANTS, LLC
191 NORWICH AVENUE
LEBANON, CT 06249
(860) 367-7264

Legend:

- PERMANENT WETLAND DISTURBANCE
- TEMPORARY WETLAND DISTURBANCE
- TEMPORARY POND DISTURBANCE

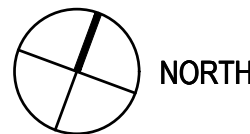
WETLANDS IMPACT TABLE

TEMPORARY DISTURBANCE - Total 37,013 SF (0.85A)				
LOCATION	AREA SF (A)	DURATION	DESCRIPTION	Mitigation
T1	8,249 SF (0.19 A)	Through Const.	Temporary sediment stockpile & construction access	Restore to previous lawn condition with hydroseeded turf
T2	5,418 SF (0.12 A)	2-3 Weeks	Dredge access	Habitat creation with wet meadow plantings
T3	2,327 SF (0.05 A)	1-2 Weeks	Boardwalk Construction, construction matting	None required, existing vegetation to re-establish
T4	269 SF (0.006 A)	2-3 Weeks	Dredge access	Habitat creation with wet meadow plantings
T5	1,425 SF (0.03 A)	1-2 Weeks	Sediment forebay construction access	Habitat creation with wet edge plantings, turf restoration with hydroseeded turf
T6	2,594 SF (0.06 A)	2-3 Weeks	Dredge access, muck dewatering	Restore to previous lawn condition with hydroseeded turf
T7	16,660 SF (0.38 A)	1-2 Weeks	Removal of trees & stumps, surface prep for turf restoration	Restore to previous lawn condition with hydroseeded turf
T8	71 SF (0.002 A)	1-2 Weeks	Sheet flow from dewatering sediment basin	Habitat creation with wet edge plantings, turf restoration with hydroseeded turf
TEMPORARY POND DREDGING DISTURBANCE - Total 63,151 SF (1.45 A)				
TP1	63,151SF (1.45 A)	1-2 Weeks	Pond dredging	Habitat creation, wetland plantings
PERMANENT DISTURBANCE - Total 8,989 SF (0.21 A)				
P1	2,468 SF (0.06 A)	NA	Walkway, plaza w/ walls, minor grading, fill to meet boardwalk	Existing lawn area
P2	20 SF (0.0005 A)	NA	Boardwalk helical piles - 102 @ Ø 6in = 0.196 sf	
P3	1,695 SF (0.04 A)	NA	Enlarge pond	Open water creation
P4	2,185 SF (0.05 A)	NA	Walkway, minor grading, fill to meet boardwalk	Existing lawn area
P5	903 SF (0.02 A)	NA	Enhance existing sediment forebay, cut	
P6	274 SF (0.006 A)	NA	Walkway, minor grading, fill	Existing lawn area
P7	160 SF (0.004 A)	NA	Walkway, minor grading, fill	Existing lawn area
P8	1,284 SF (0.03 A)	NA	Walkway minor grading, fill to meet boardwalk	Existing lawn area



WETLANDS
PERMITTING

Revisions Date



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WETLAND
DISTURBANCE

Scale 1" = 30'
Date August 23, 2022
K+F Project No. 2021014
Drawing No.

L-5.5

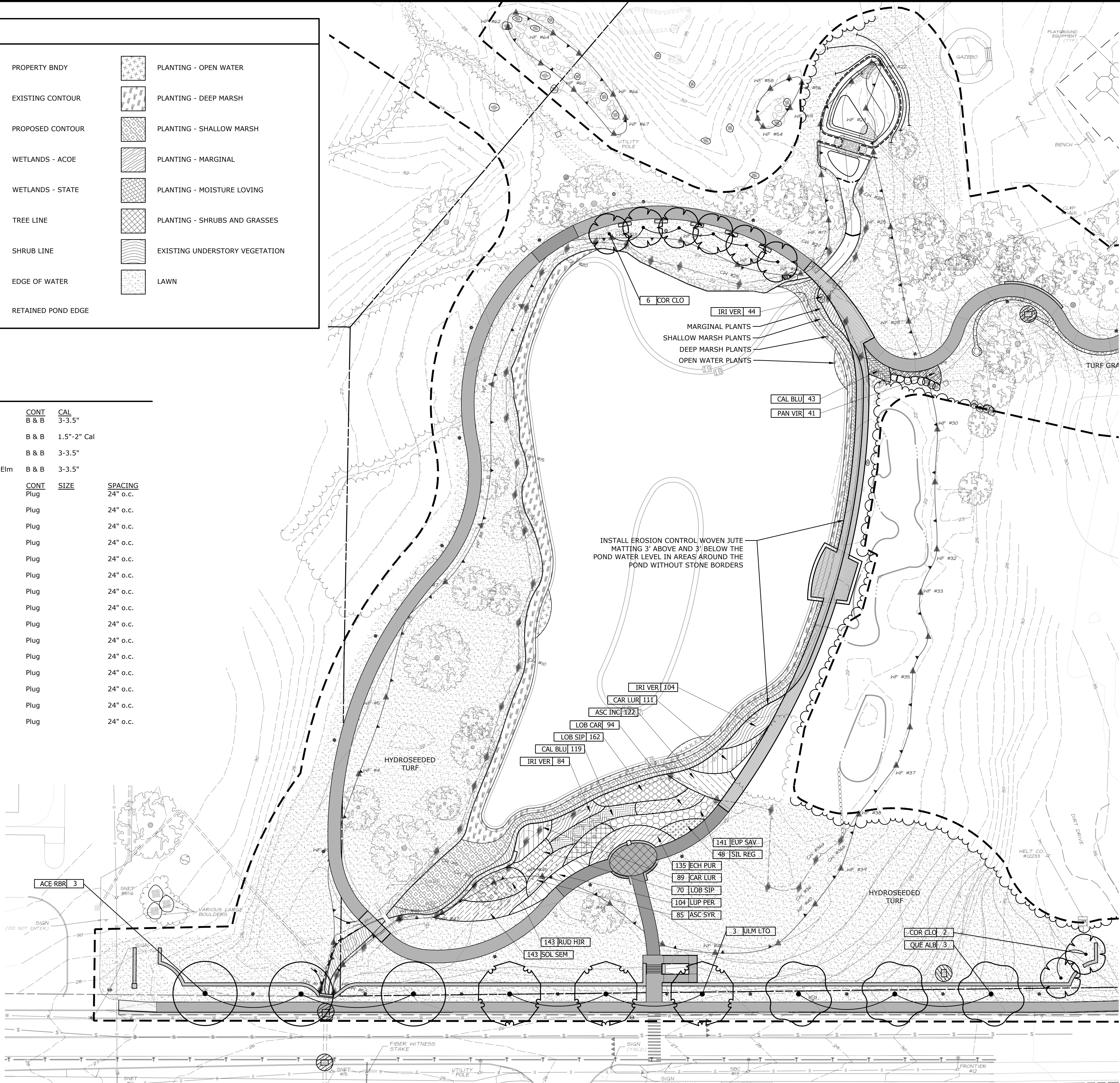
PLANT LIST	
<u>Marginal Planting</u>	
Acorus calamus, Sweet Flag	
Calamagrostis canadensis, Bluejoint Reed Grass	
Caltha palustris, Marsh Marigold	
Carex stricta, Tussock Sedge	
Iris pseudacorus, Flag Iris	
Juncus effusus, Soft Rush	
Sagittaria latifolia, Lance-Leafed Arrowhead	
<u>Shallow Marsh</u>	
Dulichium arundinaceum, Threeway Sedge	
Eleocharis palustris, Great Spike Rush	
Pontederia cordata, Pickerel Weed	
Schoenoplectus tabernaemontani, Softstem Bulrush	
<u>Deep Marsh</u>	
Pontederia cordata, Pickerel Weed	
Schoenoplectus acutus, Hardstem Bulrush	
<u>Open Water</u>	
Pontederia cordata, Pickerel Weed	
Nymphaea odorata, White Water Lily	
Potamogeton nodosus, Long-leaf Pondweed	
Potamogeton pectinatus, sago pondweed	

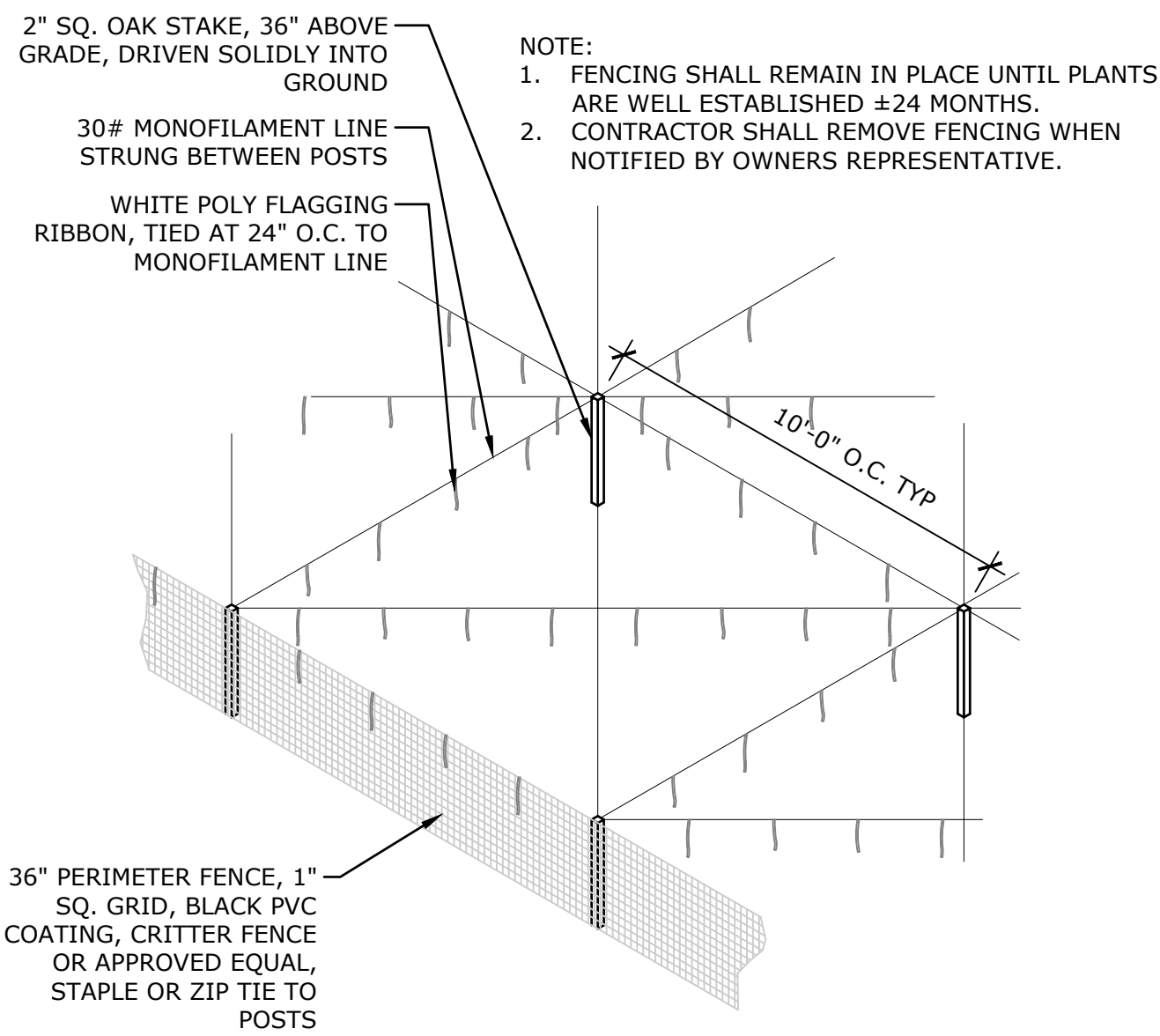
LEGEND	
	PROPERTY BNDY
	EXISTING CONTOUR
	PROPOSED CONTOUR
	WETLANDS - ACOE
	WETLANDS - STATE
	TREE LINE
	SHRUB LINE
	EDGE OF WATER
	RETAINED POND EDGE
	PLANTING - OPEN WATER
	PLANTING - DEEP MARSH
	PLANTING - SHALLOW MARSH
	PLANTING - MARGINAL
	PLANTING - MOISTURE LOVING
	PLANTING - SHRUBS AND GRASSES
	EXISTING UNDERSTORY VEGETATION
	LAWN

PLANT SCHEDULE

TREES	QTY	BOTANICAL / COMMON NAME	CONT	CAL	
ACE RBR	3	Acer rubrum / Red Maple	B & B	3-3.5"	
COR CLO	8	Cornus florida 'Cloud Nine' / Cloud Nine Dogwood	B & B	1.5"-2"	Cal
QUE ALB	3	Quercus alba / White Oak	B & B	3-3.5"	
ULM LTO	3	Ulmus japonica x wilsoniana 'Morton' TM / Accolade Elm	B & B	3-3.5"	
MOISTURE TOLERANT MEADOW	QTY	BOTANICAL / COMMON NAME	CONT	SIZE	SPACING
ASC INC	122	Asclepias incarnata / Swamp Milkweed	Plug		24" o.c.
ASC SYR	85	Asclepias syriaca / Common Milkweed	Plug		24" o.c.
CAL BLU	162	Calamagrostis canadensis / Bluejoint Grass	Plug		24" o.c.
CAR LUR	200	Carex lurida / Lurid Sedge	Plug		24" o.c.
ECH PUR	135	Echinacea purpurea / Coneflower	Plug		24" o.c.
EUP SAV	141	Eupatorium purpureum / Joe Pye Weed	Plug		24" o.c.
IRI VER	232	Iris versicolor / Blue Flag	Plug		24" o.c.
LOB CAR	94	Lobelia cardinalis / Cardinal Flower	Plug		24" o.c.
LOB SIP	232	Lobelia siphilitica / Great Lobelia	Plug		24" o.c.
LUP PER	104	Lupinus perennis / Wild Lupine	Plug		24" o.c.
PAN VIR	41	Panicum virgatum / Switch Grass	Plug		24" o.c.
RUD HIR	143	Rudbeckia hirta / Black-eyed Susan	Plug		24" o.c.
SIL REG	48	Silene regia / Royal Catchfly	Plug		24" o.c.
SOL SEM	143	Solidago sempervirens / Seaside Goldenrod	Plug		24" o.c.
SYM NVB	74	Symphyotrichum novi-belgii / New York Aster	Plug		24" o.c.

NOTE:
1. GOOSE PROTECTION FENCING IS REQUIRED FOR ALL AREAS PLANTED WITH PLUGS. EXTEND 10' INTO THE POND ~ 24" DEPTH

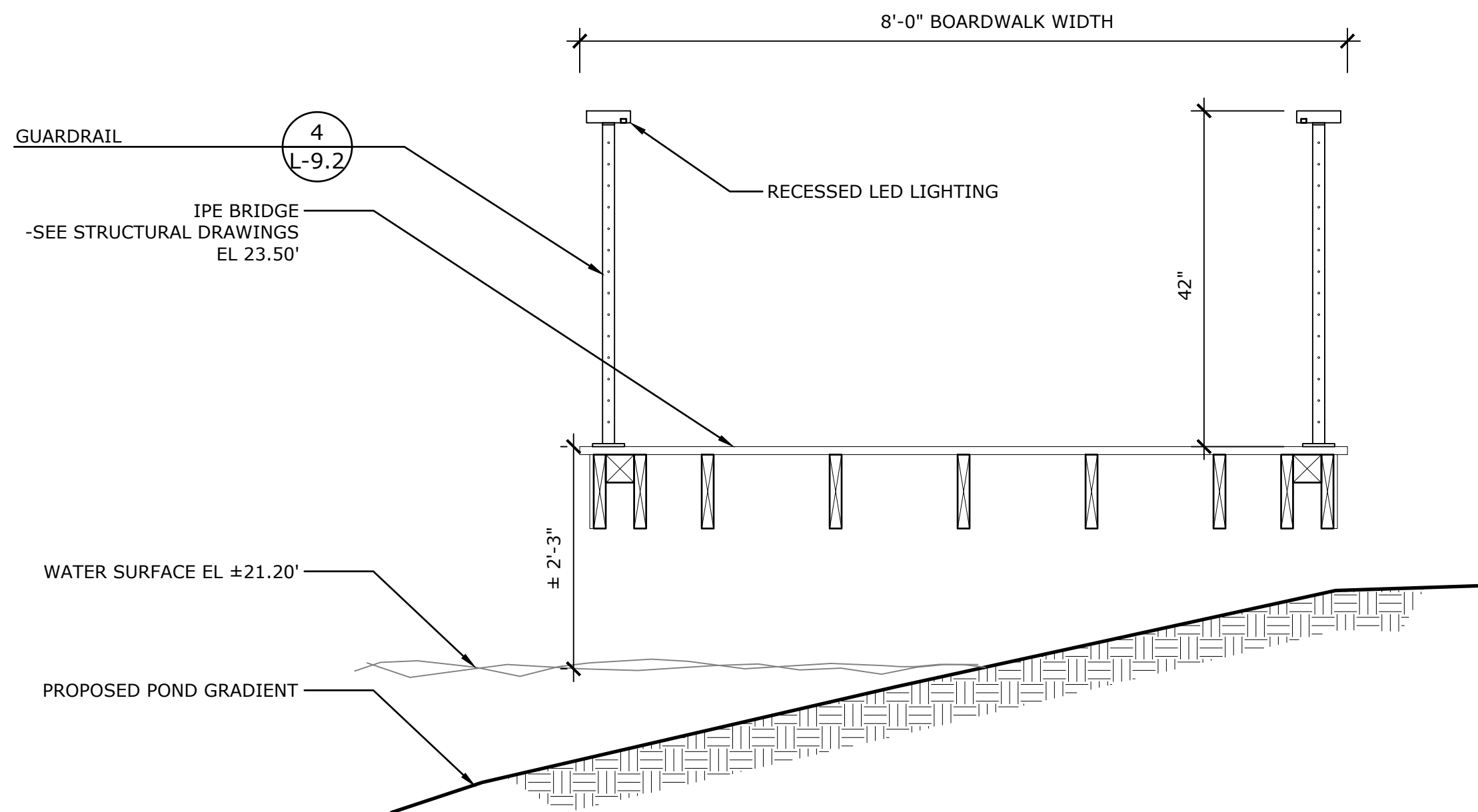




5 TEMPORARY GOOSE PROTECTION FENCE

NTS

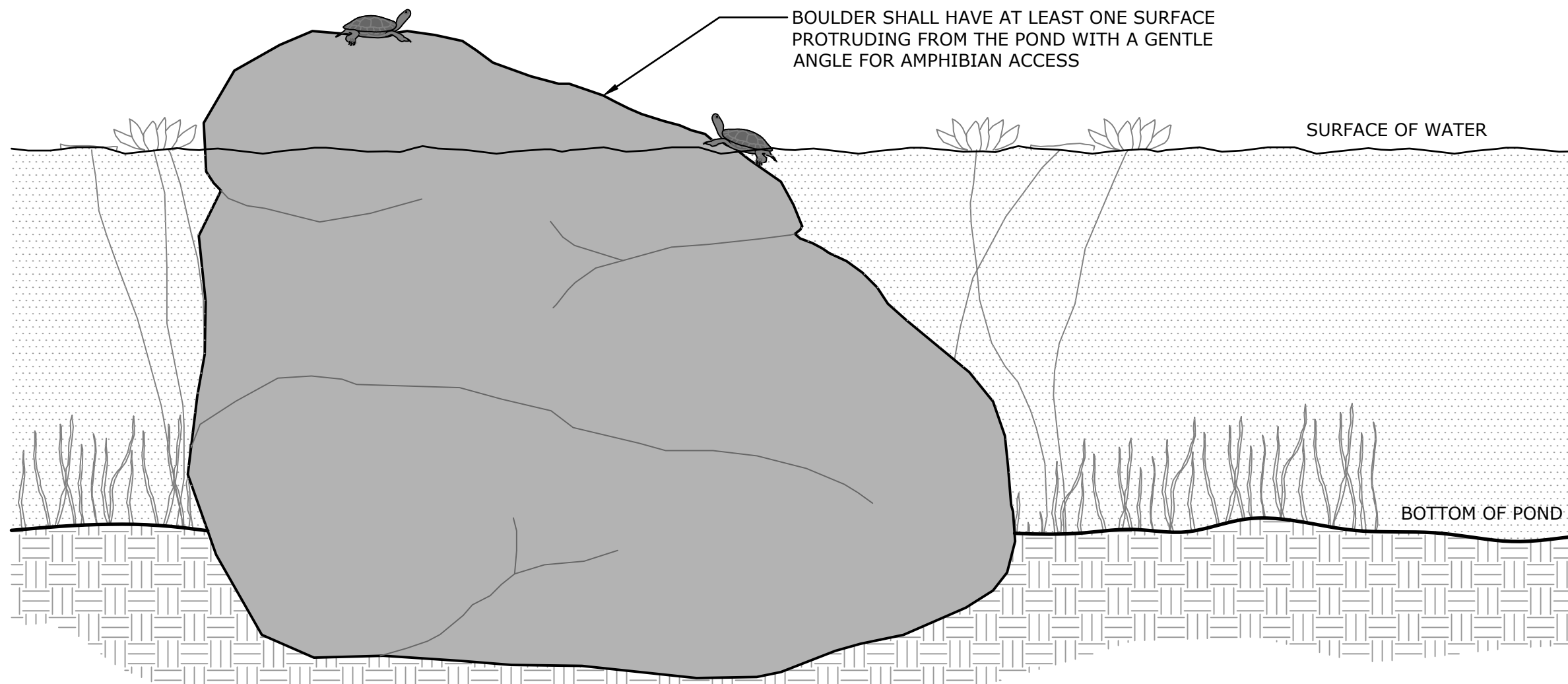
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4 IPE BOARDWALK

NTS

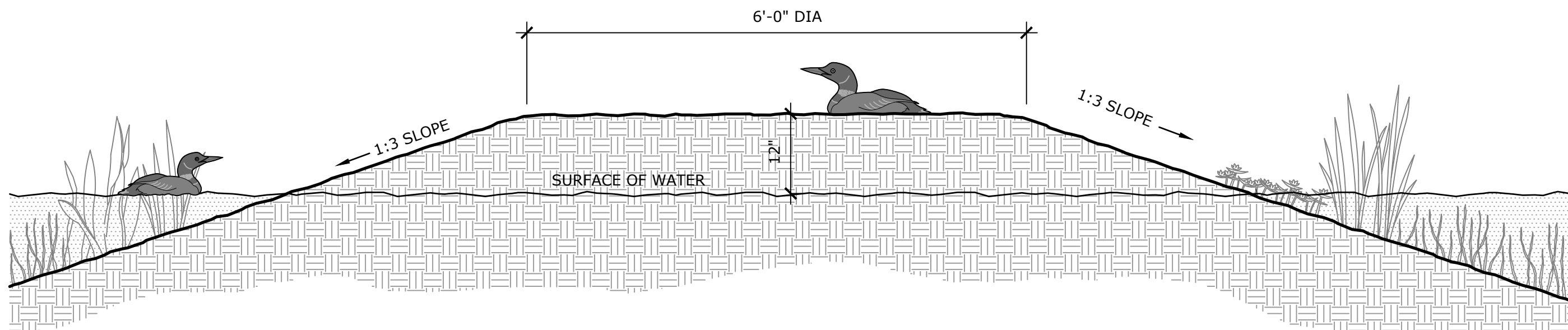
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3 BASKING BOULDER NATURAL ENHANCEMENT

NTS

P-2021-014-WATE-124

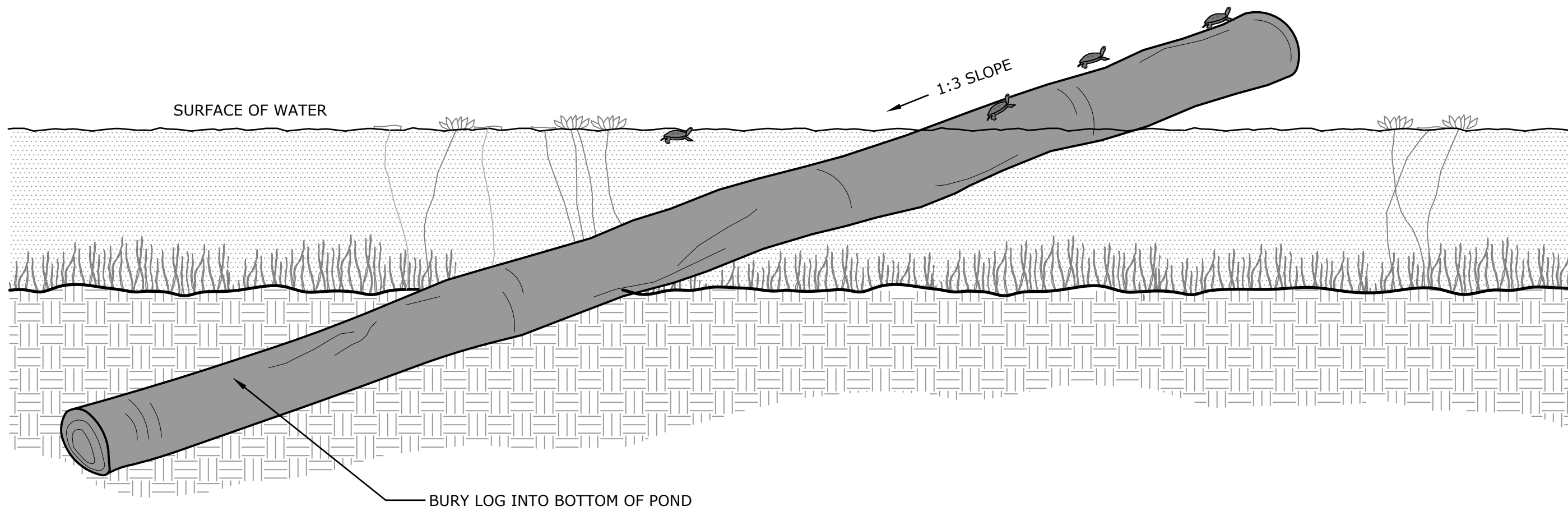


NOTE:
PLANT WITH CAREX STRICTA - TUSsock SEDGE

2 NESTING ISLAND

NTS

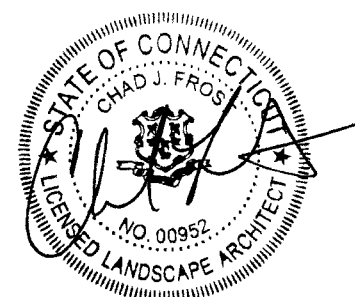
P-2021-014-WATE-125



1 BASKING LOG

NTS

P-2021-014-WATE-126

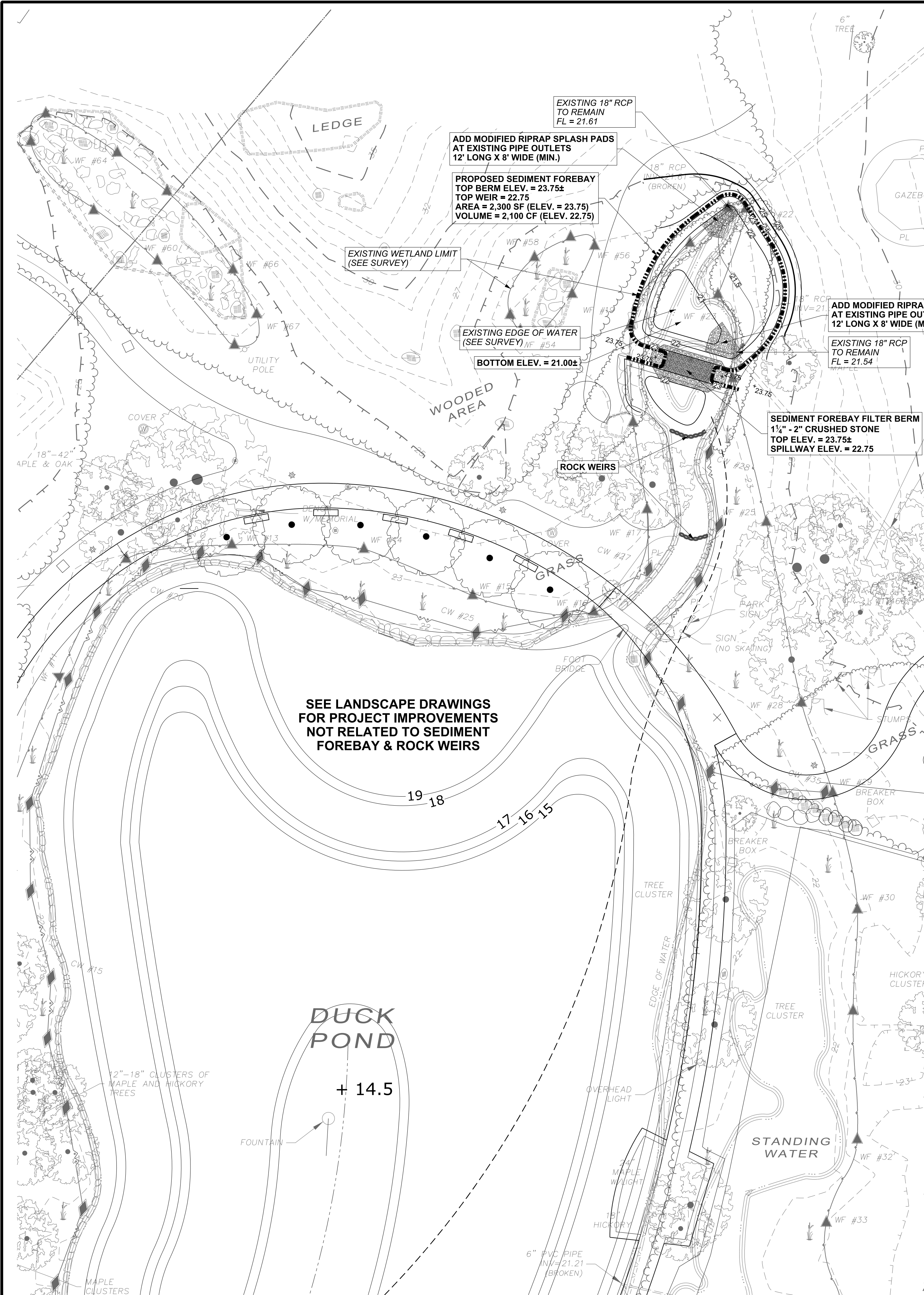


WETLANDS
PERMITTING

Revisions Date

SITE DETAILS

Scale
Date August 23, 2022
K+F Project No. 2021014
Drawing No.



UTILITY STATEMENT

UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON HAVE BEEN COMPILED, IN PART, FROM RECORD MAPPING SUPPLIED BY THE RESPECTED UTILITY COMPANIES OR GOVERNMENT AGENCIES, PAROLE TESTIMONY, FIELD SURVEY AND OTHER SOURCES. THE SURVEYOR AND THIS PLAN SET MAKE NO GUARANTEE THAT THE UNDERGROUND UTILITIES COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THESE LOCATIONS MUST BE CONSIDERED APPROXIMATE IN NATURE. ADDITIONALLY, OTHER SUCH FEATURES MAY EXIST ON THE SITE. THE SIZE, LOCATION AND EXISTENCE OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455, IN ACCORDANCE WITH CBDY NOTIFICATION PROCEDURES PRIOR TO COMMENCING WORK.

GENERAL GRADING NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, FACILITIES AND INCIDENTAL CONSTRUCTION FORM 818 AS APPLICABLE AND TOWN OF WATERFORD STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION AND SHALL REPORT ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS TO THE OWNER OR OWNER'S REPRESENTATIVE IMMEDIATELY.
- THE EXCAVATING CONTRACTOR SHALL TAKE PARTICULAR CARE WHEN EXCAVATING IN AND AROUND EXISTING UTILITY LINES AND EQUIPMENT. VERIFY COVER REQUIREMENTS BY UTILITY COMPANIES SO AS NOT TO CAUSE DAMAGE.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES 72 HOURS BEFORE CONSTRUCTION IS TO START, OR AS REQUIRED BY GOVERNING UTILITY COMPANY, TO VERIFY IF ANY UTILITIES ARE PRESENT ON SITE. ALL VERIFICATIONS (LOCATION, SIZE AND DEPTH) SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANIES. WHEN EXCAVATING IN, AROUND OR OVER UTILITIES, THE CONTRACTOR MUST NOTIFY THE UTILITY COMPANY SO A REPRESENTATIVE IS PRESENT TO INSTRUCT AND OBSERVE.
- ALL PROPOSED SPOT ELEVATIONS ARE THE FINAL GRADE ELEVATIONS.
- SEE APPROPRIATE DETAILS TO DETERMINE SUBGRADE ELEVATIONS BELOW FINISH GRADE INDICATED ON THE PLANS.
- EXTRACTION, GRADING, FILLING AND/OR PROCESSING SHALL NOT INVOLVE THE REMOVAL OR DEPOSITION OF MORE MATERIAL(S) THAN NECESSARY TO ACCOMMODATE THE PROPOSED DEVELOPMENT. MAINTAIN STABILITY AND MAINTENANCE OF GRADED AREAS UPON COMPLETION OF SITE WORK, AND MAINTAIN NO ADVERSE IMPACT ON ADJUTING PROPERTIES, THE PUBLIC RIGHT OF WAY, PUBLIC SAFETY, NOR NATURAL RESOURCES.

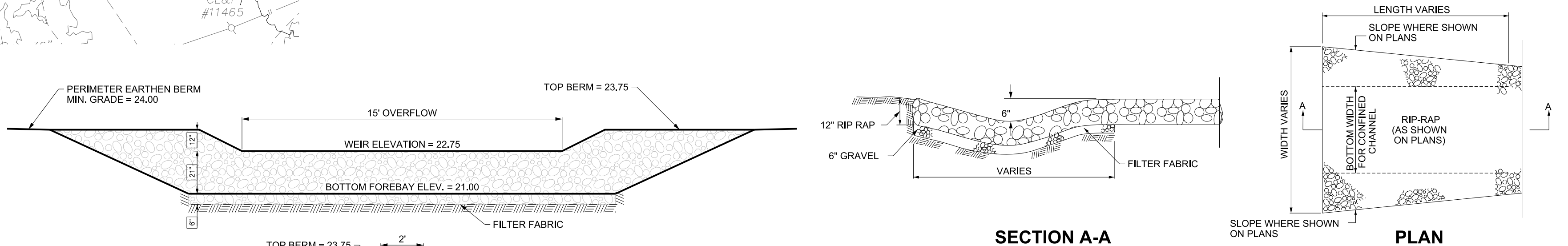
DRAINAGE

- STORMWATER RUNOFF FROM EXISTING ROADS AND DEVELOPED AREAS TO THE NORTH AND EAST OF THE SEDIMENT FOREBAY ARE COLLECTED THROUGH A SERIES OF SWALES, DRAINS, & PIPING AND WILL DISCHARGE TO A NEW SEDIMENT FOREBAY BEFORE DISCHARGING TO THE POND.
- THE PROPOSED PARK IMPROVEMENTS WILL NOT RESULT IN AN INCREASE IN DIRECTLY CONNECTED IMPERVIOUS SURFACES. THERE WILL BE NO INCREASE IN PEAK FLOW RATES OR VOLUMES DISCHARGING TO THE EXISTING POND OR DOWNGRADIENT DRAINAGE SYSTEM IN ROPE FERRY ROAD.
- STORMWATER RUNOFF DISCHARGED TO THE EXISTING POND ARE GENERATED FROM THE DRAINAGE SYSTEMS WITHIN THE WATERFORD TOWN HALL DEVELOPMENT AND BOSTON POST ROAD. NO CHANGES TO THE EXISTING DRAINAGE SYSTEMS ARE PROPOSED. TREATMENT OF EXISTING IMPERVIOUS SURFACES WILL BE ADDED PRIOR TO DISCHARGE TO THE POND AS FOLLOWS:
A. A SEDIMENT FOREBAY WILL BE CONSTRUCTED AT THE EXISTING OUTFALLS TO RETAIN A MINIMUM OF 10% OF THE WATER QUALITY VOLUME ASSOCIATED WITH THE TOWN HALL PARKING LOT AND THE DEVELOPED BOSTON POST ROAD COMMERCIAL CORRIDOR.
B. ROCK WEIRS WILL BE CONSTRUCTED WITHIN THE CHANNEL CONNECTING THE SEDIMENT FOREBAY AND THE POND TO ENCOURAGE THE COLLECTION OF DEBRIS AND PROMOTE AERATION AND LOCALIZED SCOUR.
C. PLACEMENT OF RIPRAP SPLASH PADS.
- THE DESIGN ENGINEER SHALL OVERSEE THE INSTALLATION OF THE PROPOSED SEDIMENT FOREBAY AND ROCK WEIRS AND CERTIFY THAT THEY WERE CONSTRUCTED SUBSTANTIALLY IN ACCORDANCE WITH THE PLAN. CONTRACTOR SHALL PROVIDE MATERIAL SUBMITTALS TO THE DESIGN ENGINEER PRIOR TO INSTALLATION AND SHALL SEQUENCE CONSTRUCTION TO ENSURE THE FOLLOWING COMPONENTS ARE INSPECTED PRIOR TO BACKFILL OR CONCEALMENT:
A. EXCAVATION LIMITS AND SURROUNDING UNDISTURBED SOILS
B. PLACEMENT OF STONE FILTER BERMS AND ROCK WEIRS
C. PLACEMENT OF RIPRAP SPLASH PADS
- ANY SEDIMENT COLLECTED WITHIN THE SEDIMENT FOREBAY DURING CONSTRUCTION SHALL BE REMOVED PRIOR TO FINAL GRADING, LOAMING AND SEEDING.
- AN AS-BUILT SURVEY OF THE STORMWATER SYSTEM COMPONENTS SHALL BE SUBMITTED TO THE COMMISSION WITH WRITTEN VERIFICATION FROM THE DESIGN ENGINEER THAT THE SYSTEM WAS CONSTRUCTED IN ACCORDANCE WITH THE APPROVED DESIGN PLANS.

STORMWATER OPERATIONS & MAINTENANCE

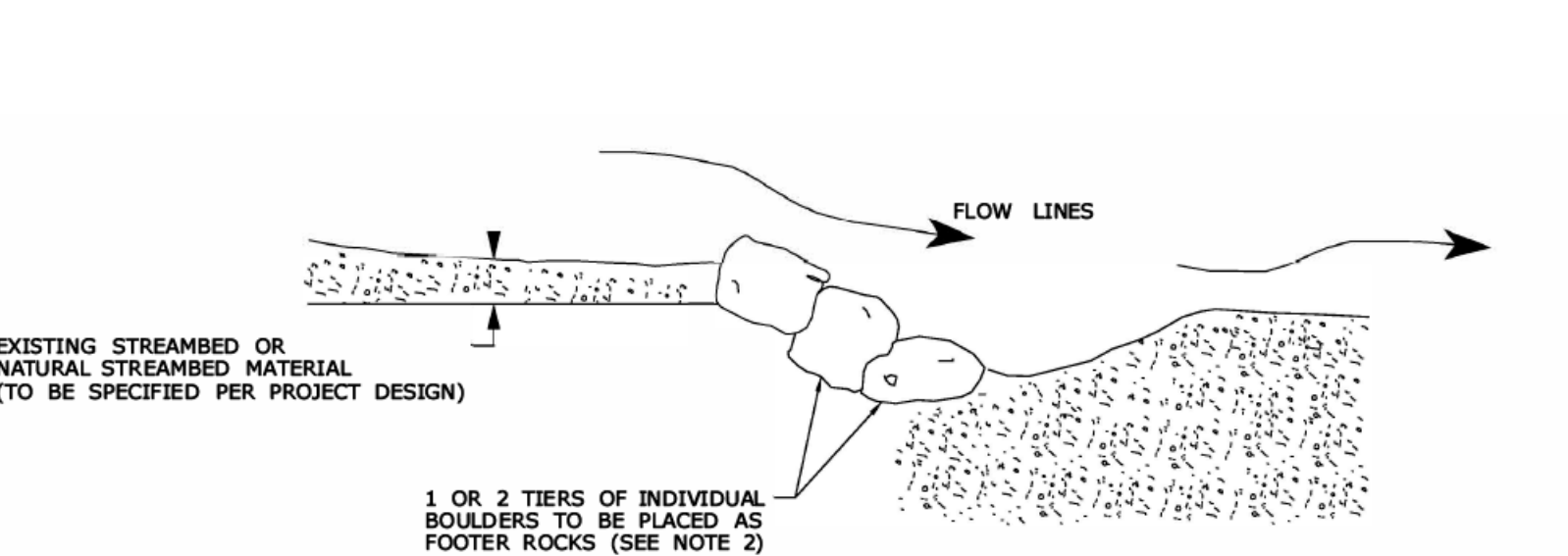
THE FOLLOWING OPERATION & MAINTENANCE PLAN SHALL BE IMPLEMENTED TO ENSURE THAT STORMWATER MANAGEMENT SYSTEMS FUNCTION AS DESIGNED. A CONDENSED INSPECTION AND MAINTENANCE CHART SHALL BE PREPARED BY THE DESIGN ENGINEER AND SUBMITTED TO THE COMMISSION'S AGENT FOR REVIEW AND APPROVAL.

- OWNER & PARTY RESPONSIBLE FOR OPERATION AND MAINTENANCE: TOWN OF WATERFORD
- THE FOLLOWING MAINTENANCE SHALL BE PERFORMED AND A MAINTENANCE LOG OR CHECKLIST COMPLETED.
A. INSPECT EACH CATCH BASIN ON TOWN PROPERTY ANNUALLY IN THE SPRING FOLLOWING THE WINTER SEASON. REMOVE ALL COLLECTED SEDIMENT AND DEBRIS AND DISPOSE OF IN AN APPROVED MANNER.
B. INSPECT EACH VEGETATED/LANDSCAPED AREA TWICE ANNUALLY, ONCE IN THE FALL AS PART OF FOLIAGE CLEANUP AND A SECOND TIME DURING SPRING CLEANUP. ALL DEBRIS THAT OBSTRUCTS OR DIVERTS FLOW SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.
C. INSPECT THE PIPE OUTFALLS, INCLUDING FLARED ENDS AND RIPRAP SPLASH PADS, ANNUALLY IN THE SPRING. REMOVE SEDIMENT AND DEBRIS AND DISPOSE OF IN AN APPROVED MANNER. RESET AND/OR REPLACE RIPRAP SPLASH STONES AS REQUIRED.
D. INSPECT THE SEDIMENT FOREBAY, FILTER BERM, OUTLET BERM, AND SPILLWAY TWICE ANNUALLY IN THE SPRING AND FALL TO ENSURE THE INLET AND OUTLETS ARE FUNCTIONING PROPERLY. VEGETATION SHOULD BE MOWED AT LEAST EVERY YEAR DURING A DRY PERIOD TO MINIMIZE OVERGROWTH AND CONTROL INVASIVE SPECIES. REMOVED COLLECTED SEDIMENT WHEN DEPTH REACHES 6" OR LESS.
E. INSPECT ROCK WEIRS ANNUALLY IN THE SPRING. REMOVE DEBRIS FROM STONES AND DISPOSE OF IN AN APPROVED MANNER.
F. ACCESS DRIVES, PARKING AREAS AND SIDEWALKS SHALL BE SWEEPED ANNUALLY EACH SPRING TO REMOVE SAND, SALT AND OTHER DEBRIS FROM THE WINTER MAINTENANCE SEASON.



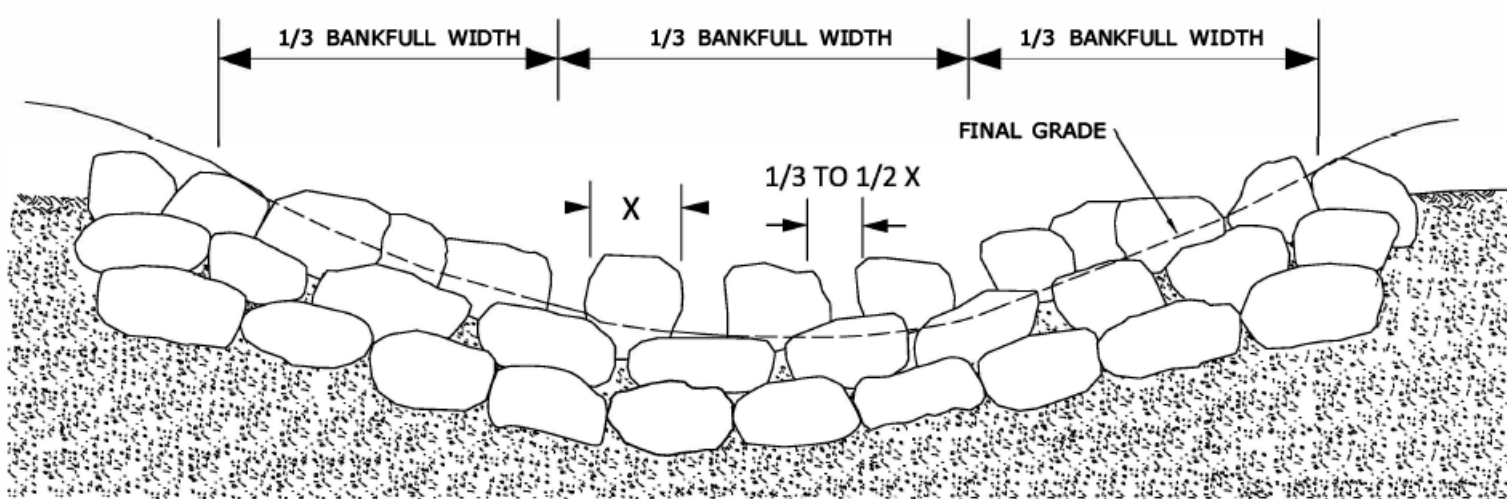
SEDIMENT FOREBAY FILTER BERM

NOT TO SCALE



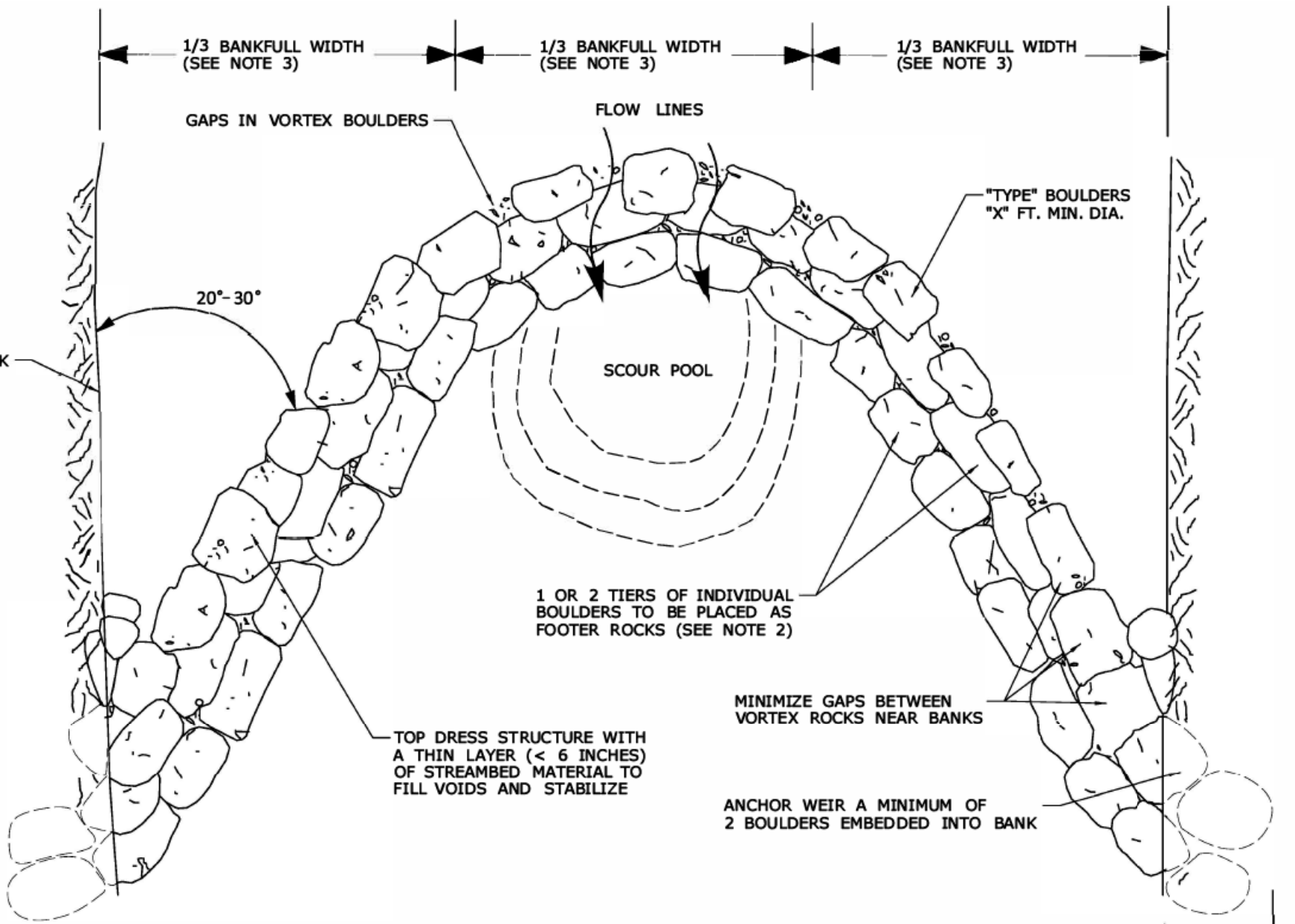
ROCK WEIR - PROFILE VIEW

N.T.S.



ROCK WEIR - SECTION VIEW (UPSTREAM)

N.T.S.



ROCK WEIR - PLAN VIEW

N.T.S.

NOTE:

- PLACEMENT OF THE ROCK WEIR SHALL BE DIRECTED IN THE FIELD BY THE ENGINEER OR THEIR AUTHORIZED DELEGATE.
- FOOTER ROCKS SHALL SERVE AS THE FOUNDATION FOR THE TOP LAYER OF THE WEIR. FOOTER ROCKS SHALL HAVE REASONABLE FLAT TOPS AND BOTTOMS TO ENABLE BETTER PLACEMENT OF THE TOP LAYER OF THE WEIR.
- BANKFULL WIDTH DISTANCE IS MEASURED AT THE LOCATION OF THE PROPOSED WEIR.



CONTACT INFORMATION
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Email: yanticriver@gmail.com
Web: www.yanticriverconsultants.com



WATERFORD CIVIC TRIANGLE UNIVERSAL ACCESS IMPROVEMENTS		REVISION SUMMARY		SHEET	
PREPARED FOR TOWN OF WATERFORD		DATE DESCRIPTION		C1 OF 1	
SEDIMENT FOREBAY IMPROVEMENT PLAN				DATE	
				8/22/22	
				REVISED	
184 BOSTON POST ROAD		WATERFORD, CT			