

FACILITIES MASTER PLAN - ENABLING PROJECTS

ELECTRIC BOAT CORPORATION, SOUTH YARD · GROTON · CONNECTICUT

BUILDING 80 ADDITION

AUGUST 17, 2018



PREPARED BY
FUSS & O'NEILL

146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

PREPARED FOR
ELECTRIC BOAT CORPORATION
75 EASTERN POINT ROAD
GROTON, CT

SHEET INDEX

SHEET No.	SHEET TITLE
GI-001	COVER SHEET
GEN-01	GENERAL NOTES
CP-101	SITE DEMOLITION PLAN
CS-101	SITE LAYOUT PLAN
CG-101	SITE GRADING AND UTILITY PLAN
CD-501	DETAILS

APPROVED BY THE CITY OF GROTON PLANNING AND ZONING COMMISSION

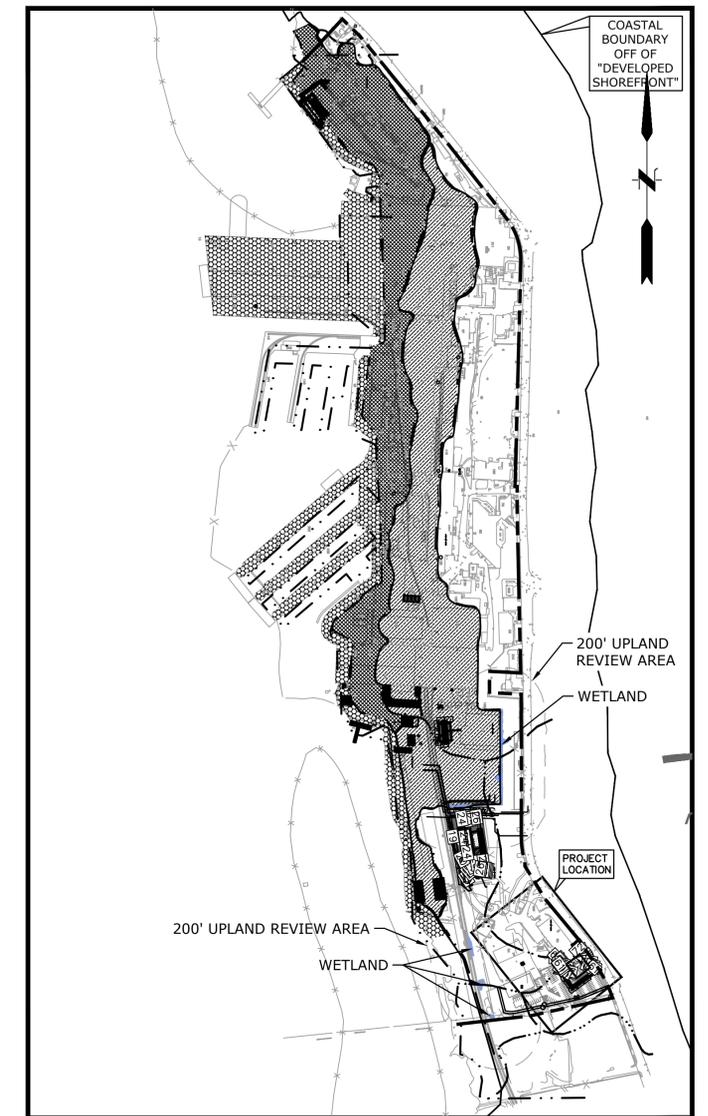
CHAIRMAN/SECRETARY _____

DATE: _____



PROPERTY LOCATION MAP

SCALE: 1" = 2500'



PROJECT LOCATION MAP

SCALE: 1" = 400'

NOT FOR CONSTRUCTION

PROJ. No.: 1997570.A11
DATE: JUNE 2018

GI-001

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DEMOLITION

1. THE DEMOLITION PLAN IS PROVIDED FOR INFORMATION ONLY AND MAY NOT INDICATE ALL ITEMS REQUIRED TO BE DEMOLISHED. ALL ITEMS ARE TO REMAIN UNLESS OTHERWISE INDICATED.
2. SITE UNDERGROUND UTILITIES AND STRUCTURES HAVE BEEN LOCATED PRIMARILY FROM INFORMATION FURNISHED BY OTHERS AND THE LOCATIONS AS DEPICTED ON THE DRAWINGS ARE CONSIDERED APPROXIMATE AS TO SIZE AND LOCATION. THERE MAY BE ADDITIONAL UNDERGROUND UTILITY AND STRUCTURES THAT ARE NOT SHOWN ON THE DRAWINGS, AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY THE SERVICES OF A PROFESSIONAL UNDERGROUND UTILITY LOCATION SERVICE TO IDENTIFY AND LOCATE ALL EXISTING UTILITY AND STRUCTURES, AND TO PROTECT THEM FROM DAMAGE.
3. PERFORM A PRE-BID SITE INSPECTION. COORDINATE DEMOLITION OF UNIDENTIFIED UTILITIES OR STRUCTURES WITH OWNER, DEMOLISH STRUCTURES, SITE IMPROVEMENTS, UTILITIES, ETC. AS REQUIRED TO CONSTRUCT PROPOSED FACILITY AND UTILITY SERVICES. THE CONTRACTOR IS TO COORDINATE WITH THE OWNER THE REMOVAL AND RELOCATION OF ITEMS THAT ARE THE OWNER'S RESPONSIBILITY (I.E. PHONE LINE EQUIPMENT, SECURITY LINES, COMPUTER LINES, FILES, FURNITURE, ETC.).
4. ALL WORK SHALL COMPLY WITH LOCAL BUILDING CODE REQUIREMENTS AND REGULATIONS.
5. ALL DEMOLITION AND REMOVAL WORK SHALL BE COMPLETED AS INDICATED, NOTED AND AS SPECIFIED HEREIN.
6. THE AREA SHALL AT ALL TIMES BE LEFT FUNCTIONAL AND OPERATIONAL.
7. THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK SO AS TO MINIMIZE THE DISTURBANCE OF THE OWNER AND THE OWNER'S IMMEDIATE NEIGHBORS.
8. PRIOR TO THE DEMOLITION OF THESE ITEMS WHICH HAVE UTILITY CONNECTIONS (WATER, GAS, ELECTRICITY, STEAM, ETC.), THE CONTRACTOR SHALL ARRANGE WITH THE OWNER TO LOCATE SHUTOFF VALVES, PANEL BOXES, AND OTHER CONTROL ELEMENTS, SO THAT WATER DAMAGE AND OTHER POTENTIALLY DANGEROUS SITUATIONS ARE AVOIDED.
9. BEFORE STARTING WORK, MAKE A THOROUGH EXAMINATION OF THOSE PORTIONS OF THE STRUCTURE IN WHICH THE WORK IS TO BE PERFORMED. CHECK ALL THE WORK ADJOINING OR AT UNDERLYING LOCATION. REPORT TO THE ENGINEER ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE WORK. DO NOT START THE WORK UNTIL SUCH CONDITIONS HAVE BEEN EXAMINED AND A COURSE OF ACTION IS MUTUALLY AGREED UPON.
10. PRIOR TO THE START OF THE DEMOLITION, THE CONTRACTOR SHALL CALL TO THE ATTENTION OF THE ENGINEER: ANY DAMAGE, CRACKS OR OTHER IMPERFECTIONS IN THE WORK ADJACENT TO THE DEMOLITION AREAS.
11. BEFORE STARTING DEMOLITION OPERATIONS, PROVIDE THE NECESSARY PROTECTIVE DEVICES, WHERE REQUIRED, AND IN STRICT ACCORDANCE WITH GOVERNING RULES AND REGULATIONS.
12. EXECUTE THE DEMOLITION IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC.
13. TAKE NECESSARY PRECAUTIONS TO PREVENT DUST AND DIRT FROM RISING BY WETTING DEMOLISHED DEBRIS. EXCESSIVE USE OF WATER WILL NOT BE PERMITTED.
14. KEEP ALL ADJOINING PUBLIC AREAS CLEAN DURING WORKING HOURS, AND MAKE AN EFFORT TO PROVIDE SAFE CONDITIONS FOR THE GENERAL PUBLIC AND WORKMEN.
15. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS, UNLESS OTHERWISE NOTED.
16. DEMOLISHED MATERIALS, UNLESS OTHERWISE NOTED, SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF THE SITE, ON A REGULAR BASIS, IN A LEGAL MANNER.
17. ERECT, MAINTAIN, AND WHEN NO LONGER NECESSARY, REMOVE PROTECTIVE BARRIERS, LIGHTING AND/OR SIGNAGE TO PROTECT THE PUBLIC AND WORKMEN.
18. REPAIR AND/OR REPLACE EXISTING ITEMS NOT SCHEDULED OR NOTED TO BE DEMOLISHED, AND NOT SPECIFIED TO BE REMOVED, BUT WHICH BECOME DAMAGED DURING THE PROGRESS OF THE WORK. MAKE ANY AND ALL SUCH REPAIRS, REPLACEMENTS AND MODIFICATIONS TO RESTORE THE DAMAGED ITEMS TO THEIR ORIGINAL CONDITIONS AT THE TIME OF THE DAMAGE, TO THE SATISFACTION OF AND AT NO ADDITIONAL COST TO THE OWNER.
19. PATCH, FILL AND REPAIR ALL SURFACES DISTURBED, CUT, DAMAGED, IN NEED OF OR MADE IMPERFECT BY ALTERATIONS OR REMOVAL WORK AND AS REQUIRED TO PREPARE FOR NEW MATERIALS AND ARRANGEMENTS.
20. EXISTING SITE UTILITIES SHALL BE ABANDONED IN PLACE WITH FLOWABLE FILL, OR REMOVED.

MAP REFERENCES:

1. EXISTING CONDITION: "DIGITAL PHOTOGRAMMETRIC AND UTILITY MAPPING" PROPERTY OF ELECTRIC BOAT CORPORATION EASTERN POINT ROAD AND THAMES STREET, GROTON, CONNECTICUT, PREPARED BY LOUREIRO ENGINEERING ASSOCIATES, INC., DATED: 09/29/2018.
2. PROPOSED: ELECTRIC BOAT CORPORATION, FACILITIES AND PLANT ENGINEERING SITE PLANS, DATED MARCH, 2018

PLAN NOTES:

1. DISTURBANCE AREA: 0 SQ. FT.
2. DISTURBANCE AREA:
200' UPLAND REGULATED AREA: 0 SQ. FT.
3. SOIL CLASSIFICATION IN AREA SHOWN IS IDENTIFIED ON PLAN.
4. PORTIONS OF WORK TO BE PERFORMED IS OUTSIDE THE 200' REGULATED AREA.
5. PROPOSED WORK WILL INCLUDE GRADING, CONSTRUCTION OF NEW BUILDING ADDITION, AS WELL, AS RETAINING WALLS AND SIDEWALKS. ALL DISTURBED AREA WILL BE RESTORED IN KIND.
6. INSTALL SEDIMENT CONTROL AT ALL CATCH BASINS DOWN STREAM FROM AREA OF DISTURBANCE.
7. ALL CONSTRUCTION DEBRIS WILL BE REMOVED FROM SITE.
8. ONE LANE TRAFFIC WILL BE MAINTAINED AT ALL TIMES.
9. ACCESS TO ALL PARKING AREAS WILL BE MAINTAINED AT ALL TIMES.

APPROVED BY THE CITY OF GROTON PLANNING AND ZONING COMMISSION

CHAIRMAN/SECRETARY _____ DATE: _____

CONSTRUCTION LAYOUT

1. PROVIDE PROPER TRANSITIONS BETWEEN EXISTING AND PROPOSED SITE IMPROVEMENTS. FIELD VERIFY EXISTING PAVEMENT AND GROUND ELEVATIONS AT THE INTERFACE WITH PROPOSED PAVEMENTS AND DRAINAGE STRUCTURES BEFORE START OF CONSTRUCTION.
2. PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION, FIELD VERIFY PROPOSED UTILITY ROUTES AND IDENTIFY ANY INTERFERENCES OR OBSTRUCTIONS WITH EXISTING UTILITIES OR PUBLIC RIGHTS-OF-WAY.
3. IMMEDIATELY INFORM THE ENGINEER IN WRITING IF EXISTING UTILITY CONDITIONS CONFLICT OR DIFFER FROM THAT INDICATED AND IF THE WORK CANNOT BE COMPLETED AS INDICATED.
4. DIMENSIONS ARE FROM FACE OF CURB, FACE OF BUILDING, FACE OF WALL, AND CENTER LINE OF PAVEMENT MARKINGS, UNLESS NOTED OTHERWISE.
5. BOUNDS OR MONUMENTATION DISTURBED DURING CONSTRUCTION SHALL BE SET OR RESET BY A PROFESSIONAL LICENSED SURVEYOR.

EARTHWORK

1. NOTIFY UTILITY LOCATOR SERVICE AT LEAST 72 HOURS BEFORE STARTING EXCAVATION. "CALL BEFORE YOU DIG" AT 1-800-922-4455.
2. STOP WORK IN THE VICINITY OF SUSPECTED CONTAMINATED SOIL, GROUNDWATER OR OTHER MEDIA. IMMEDIATELY NOTIFY THE OWNER SO THAT APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN. RESUME WORK IN THE IMMEDIATE VICINITY ONLY UPON DIRECTION BY THE OWNER.
3. WITHIN THE LIMITS OF THE BUILDING FOOTPRINT, PERFORM EARTHWORK OPERATIONS TO SUBGRADE ELEVATIONS. SEE DRAWINGS BY OTHERS FOR WORK ABOVE SUBGRADE.

UTILITIES

1. TERMINATE EXISTING UTILITIES IN CONFORMANCE WITH LOCAL, STATE AND INDIVIDUAL UTILITY COMPANY STANDARD SPECIFICATIONS AND GENERAL NOTES. COORDINATE UTILITY SERVICE DISCONNECTS WITH UTILITY REPRESENTATIVES.
2. THE TYPE, SIZE AND LOCATION OF DEPICTED UNDERGROUND UTILITIES ARE APPROXIMATE REPRESENTATIONS OF INFORMATION OBTAINED FROM FIELD LOCATIONS OF VISIBLE FEATURES, EXISTING MAPS AND PLANS OF RECORD, UTILITY MAPPING, AND OTHER SOURCES OF INFORMATION OBTAINED BY THE ENGINEER. ASSUME NO GUARANTEE AS TO THE COMPLETENESS, SERVICEABILITY, EXISTENCE, OR ACCURACY OF UNDERGROUND FACILITIES. FIELD VERIFY THE EXACT LOCATIONS, SIZES, AND ELEVATIONS OF THE POINTS OF CONNECTIONS TO EXISTING UTILITIES.
3. PAY ALL FEES AND COSTS ASSOCIATED WITH UTILITY MODIFICATIONS AND CONNECTIONS, REGARDLESS OF THE ENTITY THAT PERFORMS THE WORK.
4. COORDINATE THE WORK AND WORK SCHEDULE WITH UTILITY COMPANIES. PROVIDE ADEQUATE NOTICE TO UTILITIES TO PREVENT DELAYS IN CONSTRUCTION.
5. INTERIOR DIAMETERS OF STORM DRAIN AND SANITARY SEWER STRUCTURES SHALL BE DETERMINED BY THE PRECAST MANUFACTURER, BASED ON THE INDICATED PIPE SYSTEM LAYOUT AND LOCAL MUNICIPAL STANDARDS.

MINIMUM INTERIOR DIAMETERS:
0 TO 20 FEET DEEP; 4 FEET.
20 FEET OR GREATER; 5 FEET.
5. RIM ELEVATIONS FOR MANHOLES, VALVE COVERS, GATE AND PULL BOXES, AND OTHER STRUCTURES ARE APPROXIMATE. SET OR RESET RIM ELEVATIONS AS FOLLOWS:

IN PAVEMENTS AND CONCRETE SURFACES: FLUSH
IN SURFACES ALONG ACCESSIBLE ROUTES: FLUSH
IN LANDSCAPE, SEEDED, AND OTHER EARTH SURFACE AREAS:
1 INCH ABOVE SURROUNDING AREA; TAPER EARTH TO RIM ELEVATION.
6. INSTALL PROPOSED PRIVATE UTILITY SERVICES ACCORDING TO THE REQUIREMENTS PROVIDED BY, AND APPROVED BY THE AUTHORITY HAVING JURISDICTION (WATER, SEWER, GAS, TELEPHONE, ELECTRIC, FIRE ALARM, ETC.). COORDINATE FINAL DESIGN LOADS AND LOCATIONS WITH OWNER'S REPRESENTATIVE.

PAVEMENT

1. AT A MINIMUM, CONSTRUCT ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS IN CONFORMANCE WITH THE FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER ARE MORE STRINGENT).

SITE RESTORATION

1. PROVIDE 6 INCHES OF TOPSOIL AND SEED TO AREAS DISTURBED DURING CONSTRUCTION AND NOT DESIGNATED TO BE RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) UNLESS OTHERWISE NOTED.
2. REPAIR DAMAGES RESULTING FROM CONSTRUCTION LOADS, AT NO ADDITIONAL COST TO OWNER.
3. RESTORE AREAS DISTURBED BY CONSTRUCTION OPERATIONS TO THEIR ORIGINAL CONDITION OR BETTER, AT NO ADDITIONAL COST TO OWNER.

CIVIL GENERAL NOTES

GENERAL

1. SYMBOLS AND LEGENDS OF PROJECT FEATURES ARE GRAPHIC REPRESENTATIONS AND ARE NOT NECESSARILY SHOWN ON THE DRAWINGS TO SCALE OR TO THEIR ACTUAL DIMENSION OR LOCATION. COORDINATE DETAIL SHEET DIMENSIONS, MANUFACTURERS' LITERATURE, SHOP DRAWINGS AND FIELD MEASUREMENTS OF SUPPLIED PRODUCTS FOR LAYOUT OF THE PROJECT FEATURES.
2. DO NOT RELY SOLELY ON ELECTRONIC VERSIONS OF DRAWINGS, SPECIFICATIONS, AND DATA FILES THAT ARE PROVIDED BY THE ENGINEER. FIELD VERIFY LOCATION OF PROJECT FEATURES.
3. PERFORM NECESSARY CONSTRUCTION NOTIFICATIONS, APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
4. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF BUILDINGS AND ADJACENT SITE ELEMENTS INCLUDING SIDEWALKS, RAMPS, BUILDING ENTRANCES, STAIRWAYS, UTILITY PENETRATIONS, CONCRETE DOOR PADS, COMPACTOR PAD, LOADING DOCKS, BOLLARDS, ETC.
5. TOPOGRAPHIC ELEVATIONS ARE BASED ON SURVEY PROVIDED, TO FUSS & O'NEILL AS INDICATED IN MAP REFERENCES.
6. WETLANDS WERE DELINEATED BY STANTEC ON AUGUST 28, 2017.

WORK RESTRICTIONS

1. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, FIRE HYDRANTS, AND UTILITIES WITHOUT APPROPRIATE PERMITS.

REGULATORY REQUIREMENTS

1. WITHIN LOCAL RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS.
2. WITHIN STATE RIGHTS-OF-WAY, PERFORM THE WORK IN ACCORDANCE WITH THE LATEST EDITION OF THE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS AND ISSUED REVISIONS/SUPPLEMENTS.
3. PROVIDE TRAFFIC SIGNAGE AND PAVEMENT MARKINGS IN CONFORMANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
4. BE RESPONSIBLE FOR SITE SECURITY AND JOB SAFETY. PERFORM CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.
5. DISPOSE OF DEMOLITION DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS, ORDINANCES AND STATUTES.
6. THIS PROJECT DISTURBS MORE THAN ONE ACRE, AND LESS THAN 5 ACRES OF LAND, AND IS LOCALLY APPROVABLE, THEREFORE FALLS WITHIN THE SMALL CONSTRUCTION CATEGORY OF THE CT DEEP STORMWATER AND DEWATERING WASTEWATER FROM CONSTRUCTION ACTIVITIES GENERAL PERMIT PROCESS. AS A RESULT, APPLICATION AND/OR REGISTRATION FOR THIS PERMIT FOR THIS PROJECT IS NOT REQUIRED. THIS INFORMATION IS BASED ON THE CURRENT PERMIT ISSUED IN 2013.

EROSION AND SEDIMENT CONTROL

1. INSTALL EROSION CONTROL MEASURES PRIOR TO STARTING ANY WORK ON THE SITE. REFER TO THE EROSION AND SEDIMENT CONTROL DRAWINGS.
2. IMPLEMENT ALL NECESSARY MEASURES REQUIRED TO CONTROL STORMWATER RUNOFF, DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE. PERFORM CORRECTIVE ACTION AS NEEDED FOR EROSION CLEANUP AND REPAIRS TO OFF SITE AREAS, IF ANY, AT NO COST TO OWNER.
3. INSPECT AND MAINTAIN EROSION CONTROL MEASURES PER THE SCHEDULE IN THE EROSION AND SEDIMENT CONTROL DRAWINGS. DISPOSE OF SEDIMENT IN AN UPLAND AREA. DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
4. PERFORM CONSTRUCTION SEQUENCING IN SUCH A MANNER TO CONTROL EROSION AND TO MINIMIZE THE TIME THAT EARTH MATERIALS ARE EXPOSED BEFORE THEY ARE COVERED, SEEDED, OR OTHERWISE STABILIZED.
5. UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL MEASURES. CLEAN SEDIMENT AND DEBRIS FROM TEMPORARY MEASURES AND FROM PERMANENT STORM DRAIN AND SANITARY SEWER SYSTEMS.

DEMOLITION

1. REMOVE AND DISPOSE OF EXISTING UTILITIES, FOUNDATIONS AND UNSUITABLE MATERIAL BENEATH AND FOR A DISTANCE OF 10 FEET BEYOND THE PROPOSED BUILDING FOOTPRINT INCLUDING EXTERIOR COLUMNS, UNLESS OTHERWISE NOTED.
2. THE DEMOLITION PLAN IS PROVIDED FOR INFORMATION ONLY AND MAY NOT INDICATE ALL ITEMS REQUIRED TO BE DEMOLISHED. PERFORM A PRE-BID SITE INSPECTION. COORDINATE DEMOLITION OF UNIDENTIFIED UTILITIES OR STRUCTURES WITH OWNER, DEMOLISH STRUCTURES, SITE IMPROVEMENTS, UTILITIES, ETC. AS REQUIRED TO CONSTRUCT PROPOSED TO CONSTRUCT PROPOSED FACILITY AND UTILITY SERVICES.

Division of Construction Services
Office of the State Building Inspector

August 18, 2017

Mr. Paul Williams
Electric Boat
75 Eastern Point Road
Groton, CT 06340

RE: M-916-17 [75 Eastern Point Road, Groton]

Dear Mr. Williams:

I have reviewed the referenced request for modification to utilize the 2016 State Building Code for the submitted "Facilities Master Plan".

It is my decision to **approve** this modification, as requested, to utilize the approved language of the referenced section of the 2016 State Building Code for the listed construction projects that make up the "master plan" - with the stipulation that all the building permit applications shall be applied for within 5 years of the date of this letter.

If you have any questions, please contact me at (860) 713-5900.

Sincerely,

Daniel Tierney
Deputy State Building Inspector

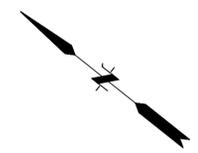
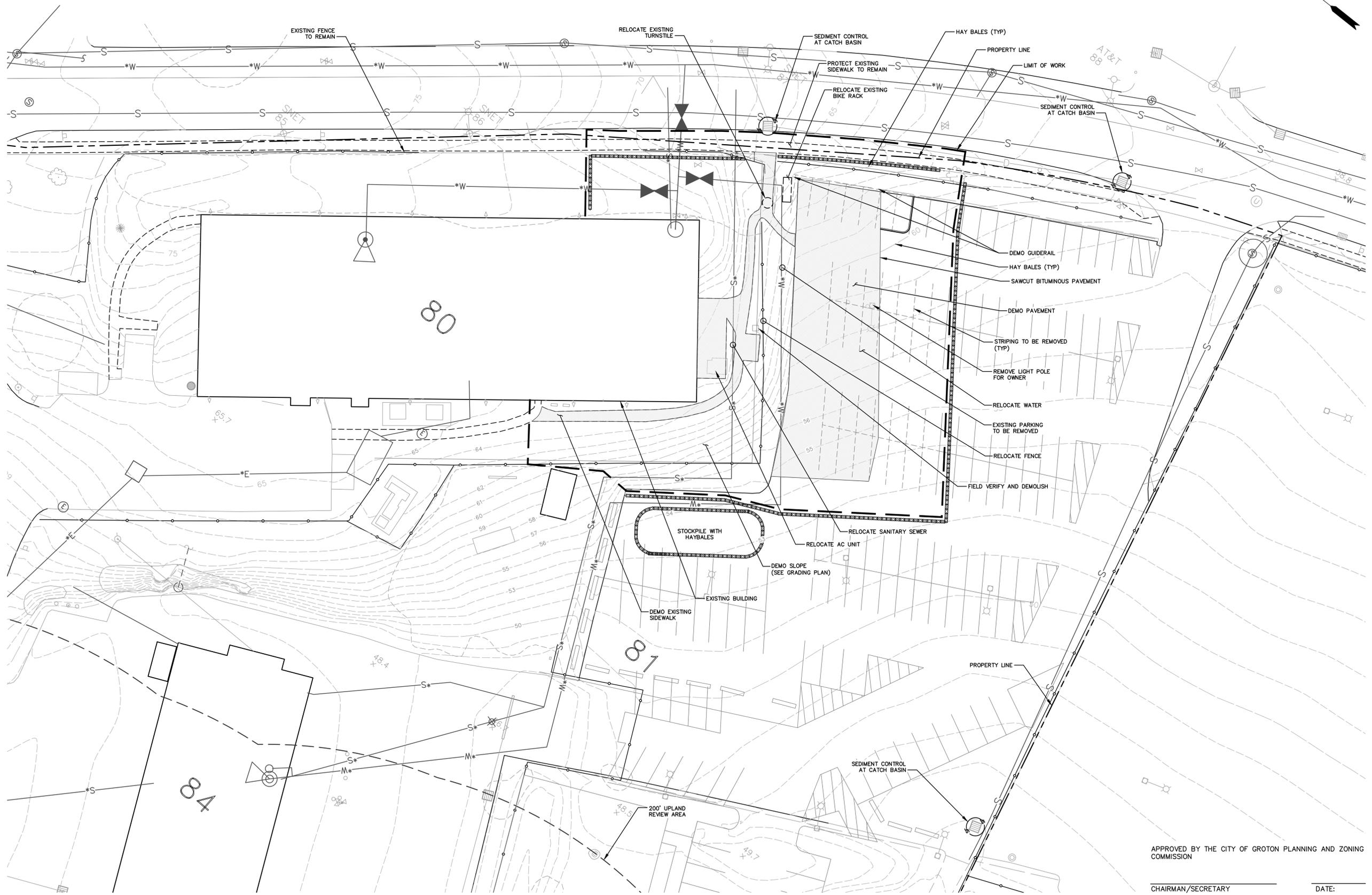
DT:bags
c: Carlton Smith, City of Groton Building Official
Terry Brouwer, Fire & Life Safety Supervisor

450 Columbus Blvd, Room 1303
Hartford, CT 06103
Phone: (860) 713-5900 Fax: (860) 713-7900 www.ct.gov/dcs
An Affirmative Action/Equal Opportunity Employer

SCALE: HORIZ.: 1" = 20'	VERT.: _____	DATE: _____	DESIGNER/REVIEWER: _____
DATUM: _____	HORIZ.: _____	No. _____	xx/xx
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FUSS & O'NEILL 146 HARTFORD ROAD MIDDLETOWN, CONNECTICUT 06040 860.646.2460 www.fuss.com			
FACILITIES MASTER PLAN - ENABLING PROJECTS GENERAL NOTES BUILDING 80 ADDITION ENABLING PROJECTS CONNECTICUT GROTON			
PROJ. No.: 1997570.A11 DATE: AUGUST 17, 2018			
GEN-01			

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SCALE: HORZ.: 1" = 20'
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 DATUM:
 HORZ.:
 VERT.:
 GRAPHIC SCALE

FUSS & O'NEILL
 146 HARTFORD ROAD
 NORTH HAVEN, CONNECTICUT 06460
 860.646.2469
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FACILITIES MASTER PLAN - ENABLING PROJECTS
 SITE DEMOLITION PLAN
 BUILDING 80 ADDITION
 ENABLING PROJECTS

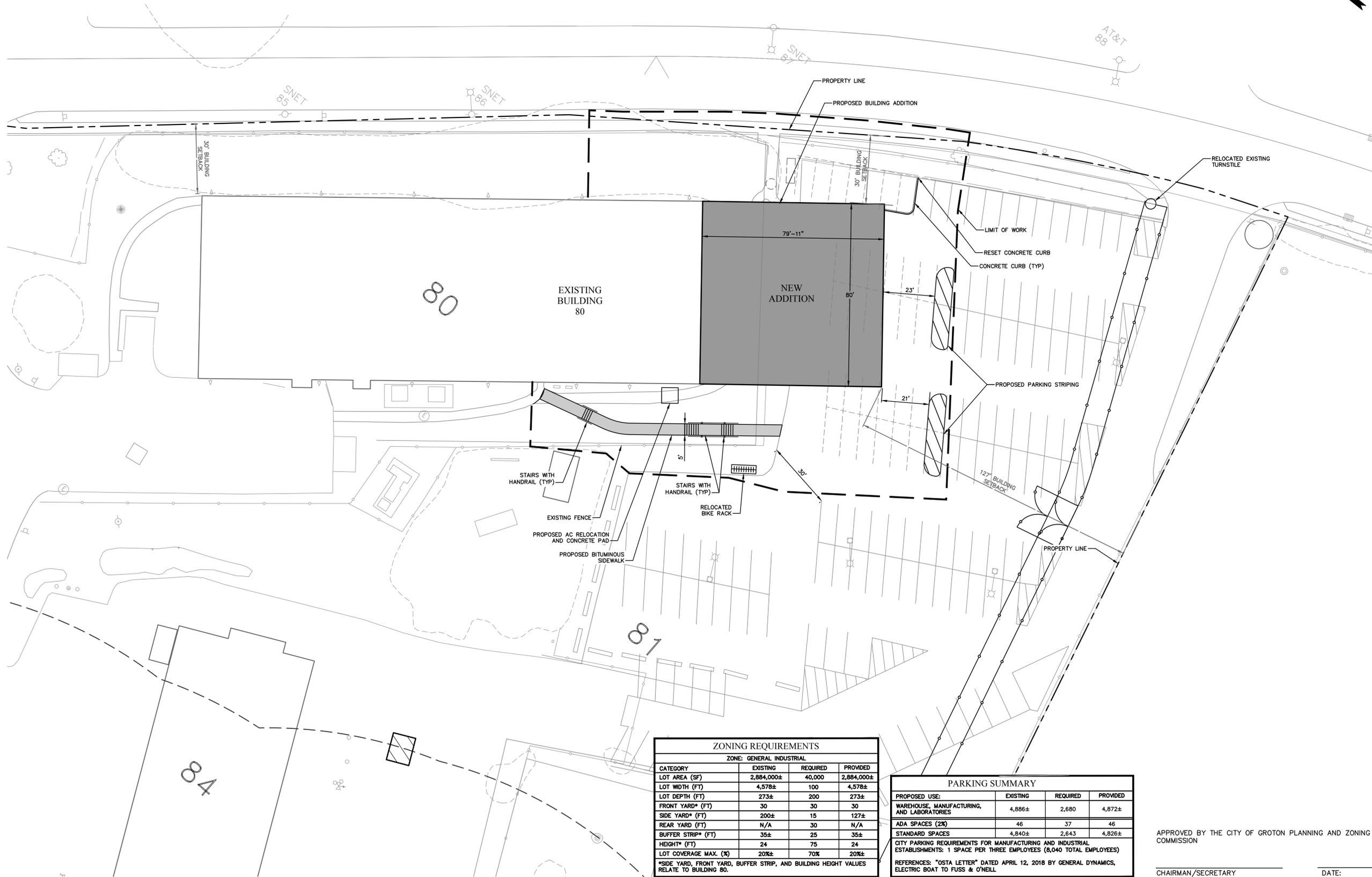
GROTON CONNECTICUT

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CHAIRMAN/SECRETARY _____ DATE: _____

NOT FOR CONSTRUCTION

CP-101



ZONING REQUIREMENTS			
ZONE: GENERAL INDUSTRIAL			
CATEGORY	EXISTING	REQUIRED	PROVIDED
LOT AREA (SF)	2,884,000±	40,000	2,884,000±
LOT WIDTH (FT)	4,578±	100	4,578±
LOT DEPTH (FT)	273±	200	273±
FRONT YARD* (FT)	30	30	30
SIDE YARD* (FT)	200±	15	127±
REAR YARD (FT)	N/A	30	N/A
BUFFER STRIP* (FT)	35±	25	35±
HEIGHT* (FT)	24	75	24
LOT COVERAGE MAX. (%)	20%±	70%	20%±

*SIDE YARD, FRONT YARD, BUFFER STRIP, AND BUILDING HEIGHT VALUES RELATE TO BUILDING 80.

PARKING SUMMARY			
PROPOSED USE:	EXISTING	REQUIRED	PROVIDED
WAREHOUSE, MANUFACTURING, AND LABORATORIES	4,886±	2,680	4,872±
ADA SPACES (2%)	46	37	46
STANDARD SPACES	4,840±	2,643	4,826±

CITY PARKING REQUIREMENTS FOR MANUFACTURING AND INDUSTRIAL ESTABLISHMENTS: 1 SPACE PER THREE EMPLOYEES (8,040 TOTAL EMPLOYEES)
 REFERENCES: "OSTA LETTER" DATED APRIL 12, 2018 BY GENERAL DYNAMICS, ELECTRIC BOAT TO FUSS & O'NEILL

APPROVED BY THE CITY OF GROTON PLANNING AND ZONING COMMISSION

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FACILITIES MASTER PLAN - ENABLING PROJECTS

GROTON, CONNECTICUT

FUSS & O'NEILL

146 HARTFORD ROAD
 NORTH HAVEN, CONNECTICUT 06460
 860.646.2460
 www.fuss.com

SITE LAYOUT PLAN

BUILDING 80 ADDITION

ENABLING PROJECTS

SCALE: HORIZ.: 1" = 20'
 VERT.: _____
 DATUM: _____

HORIZ.: _____
 VERT.: _____
 GRAPHIC SCALE

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
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PROJ. No.: 1997570.A11
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CS-101

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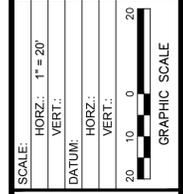


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1.			XX/XX	XX



FUSS & O'NEILL

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FACILITIES MASTER PLAN - ENABLING PROJECTS

SITE GRADING AND UTILITY PLAN

BUILDING 80 ADDITION

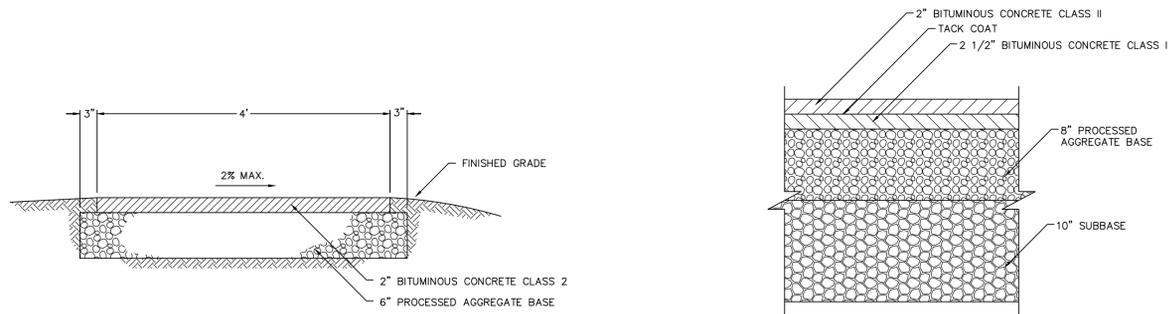
ENABLING PROJECTS

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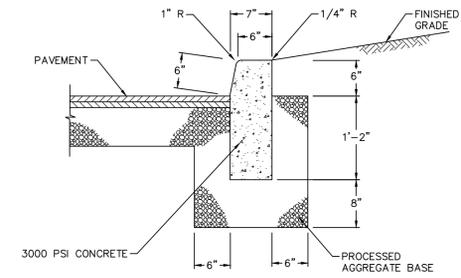
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BITUMINOUS CONCRETE WALK
 NOT TO SCALE

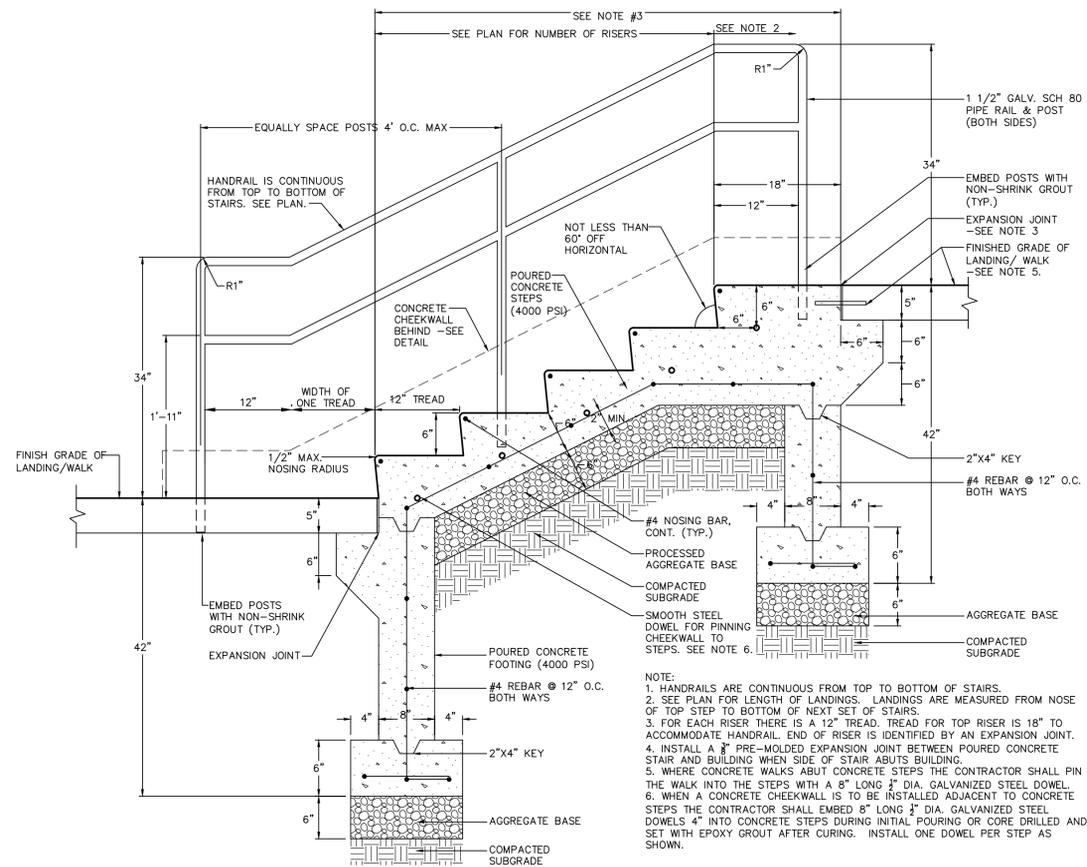
BITUMINOUS CONCRETE PAVEMENT (HEAVY DUTY)
 NOT TO SCALE



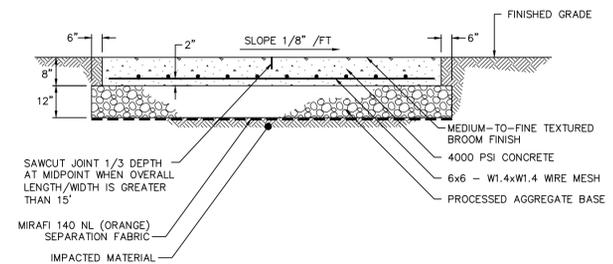
NOTES

1. 1 INCH DEEP BEVELED JOINT AT TOP AND FACE OF CURB EVERY 10 FEET.
2. 1/2 INCH EXPANSION JOINT AND FILLER EVERY 30 FEET.
3. 1/2 INCH EXPANSION JOINT AND FILLER WHEN CURB IS ADJACENT TO CONCRETE SIDEWALK.

CONCRETE CURB
 NOT TO SCALE



CONCRETE STEPS (12" TREAD) WITH HANDRAIL
 SCALE: N.T.S.



UTILITY CONCRETE PAD
 NOT TO SCALE

- NOTE:
1. HANDRAILS ARE CONTINUOUS FROM TOP TO BOTTOM OF STAIRS.
 2. SEE PLAN FOR LENGTH OF LANDINGS. LANDINGS ARE MEASURED FROM NOSE OF TOP STEP TO BOTTOM OF NEXT SET OF STAIRS.
 3. FOR EACH RISER THERE IS A 12" TREAD. TREAD FOR TOP RISER IS 18" TO ACCOMMODATE HANDRAIL. END OF RISER IS IDENTIFIED BY AN EXPANSION JOINT.
 4. INSTALL A 3/8" PRE-MOLDED EXPANSION JOINT BETWEEN POURED CONCRETE STAIR AND BUILDING WHEN SIDE OF STAIR ABUTS BUILDING.
 5. WHERE CONCRETE WALKS ABUT CONCRETE STEPS THE CONTRACTOR SHALL PIN THE WALK INTO THE STEPS WITH A 8" LONG 3/8" DIA. GALVANIZED STEEL DOWEL.
 6. WHEN A CONCRETE CHEEKWALL IS TO BE INSTALLED ADJACENT TO CONCRETE STEPS THE CONTRACTOR SHALL EMBED 8" LONG 3/8" DIA. GALVANIZED STEEL DOWELS 4" INTO CONCRETE STEPS DURING INITIAL POURING OR CORE DRILLED AND SET WITH EPOXY GROUT AFTER CURING. INSTALL ONE DOWEL PER STEP AS SHOWN.

APPROVED BY THE CITY OF GROTON PLANNING AND ZONING COMMISSION

CHAIRMAN/SECRETARY _____

DATE: _____

NOT FOR CONSTRUCTION

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			xx/xx	xx

SCALE:	HORZ.:	VERT.:
DATUM:	HORZ.:	VERT.:

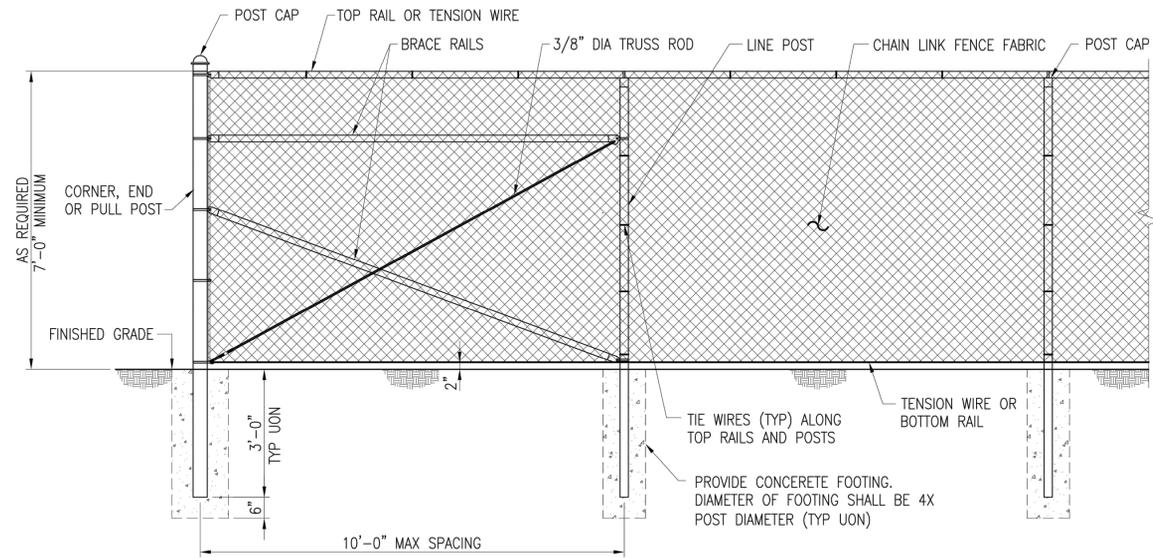
FUSS & O'NEILL
 146 HARTFORD ROAD
 NORTH HAVEN, CONNECTICUT 06460
 860.646.2460
 www.fuss.com

FACILITIES MASTER PLAN - ENABLING PROJECTS
 DETAILS
 BUILDING 80 ADDITION
 ENABLING PROJECTS
 GROTON CONNECTICUT

PROJ. No.: 1997570.A11
 DATE: AUGUST 17, 2018

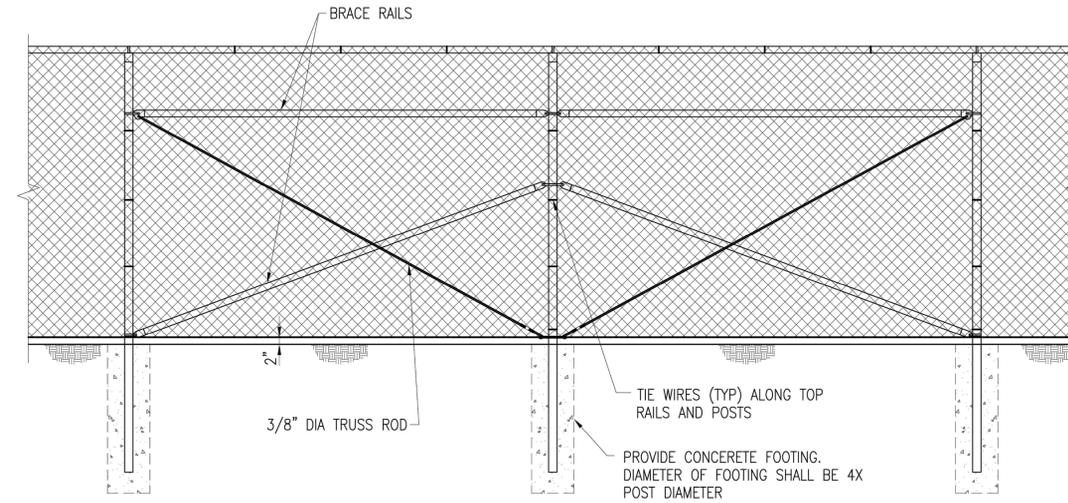
CD-502

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TYPICAL FENCE AND CORNER PANEL ELEVATION

SCALE: 1" = 1'-0"

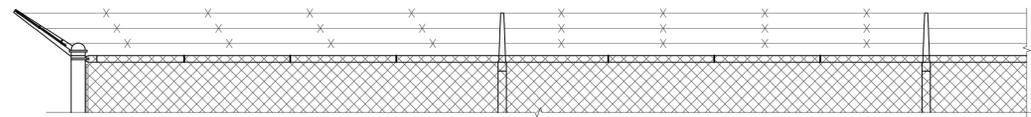


TYPICAL FENCE AND BRACED PANEL ELEVATION

SCALE: 1" = 1'-0"

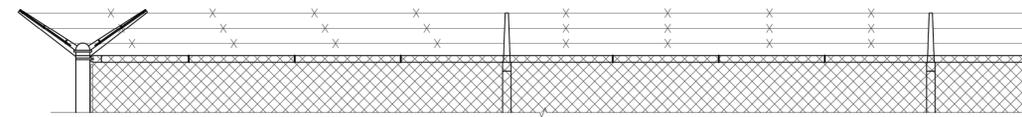
NOTE (1): A BOTTOM RAIL CAN BE ADDED FOR SECURITY, IT SHALL BE INSTALLED APPROX 3" ABOVE GRADE (A MINIMUM OF 2" AND A MAXIMUM OF 4"). HARDWARE SHALL BE WELDED OR SHOT NAILED TO POSTS AND RAILS IN ORDER TO SECURE IN PLACE. ATTACH FABRIC TO NEW BOTTOM RAIL TO ELIMINATE POSSIBILITY OF PEELING UP FABRIC.

NOTE (2): SOME LOCATIONS MAY REQUIRE 8' OF FABRIC.



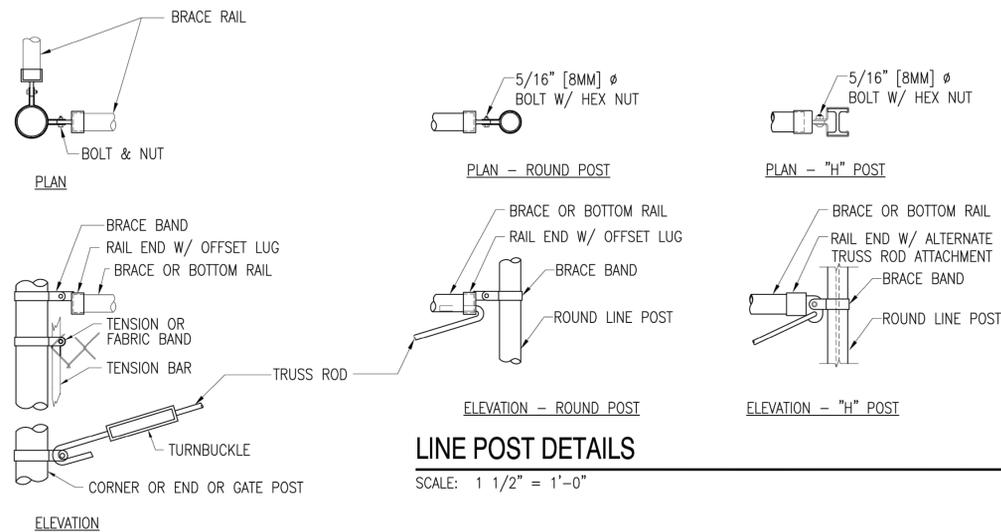
TYPICAL 3 STRAND BARBED WIRE AND SINGLE EXTENSION ARM CONFIGURATION

SCALE: 1" = 1'-0"



TYPICAL 6 STRAND BARBED WIRE AND DOUBLE EXTENSION ARM CONFIGURATION

SCALE: 1" = 1'-0"

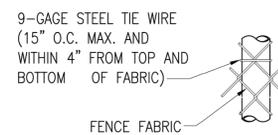


LINE POST DETAILS

SCALE: 1 1/2" = 1'-0"

CORNER OR END POSTS

SCALE: 1 1/2" = 1'-0"



ELEVATION - ROUND POST

9-GAGE STEEL TIE WIRES (2'-0" O.C. MAX.)

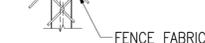


ELEVATION TOP OR BRACE RAIL ATTACHMENT



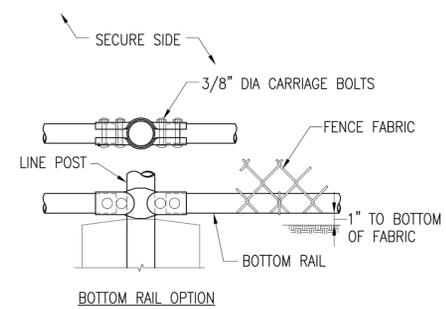
PLAN - "H" POST

9-GAGE STEEL TIE WIRE (15" O.C. MAX. AND WITHIN 4" FROM TOP AND BOTTOM OF FABRIC)



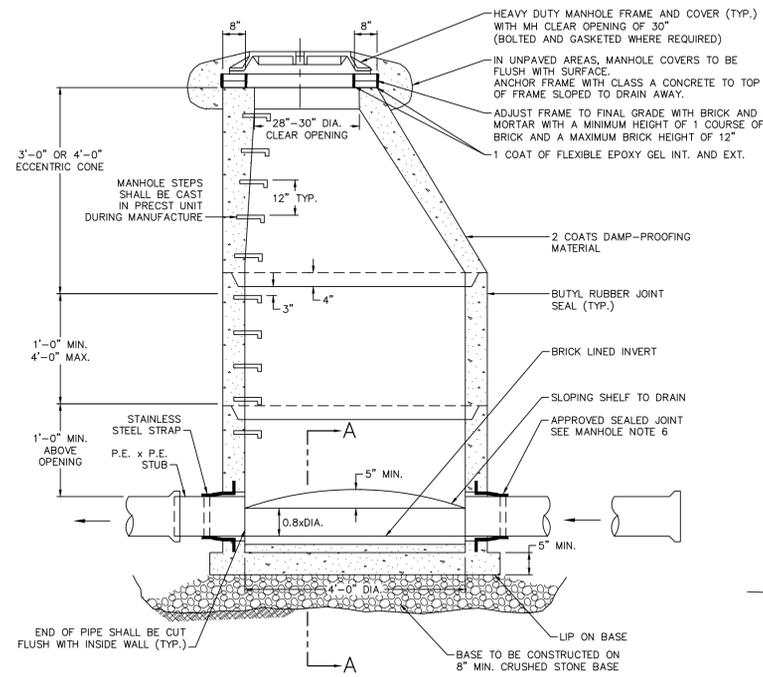
ELEVATION - "H" POST

FITTINGS NOTES
1. METRIC DIMENSIONS ARE NOMINAL EQUIVALENTS TO U.S. DIMENSIONS.
2. ALL FITTINGS MATERIAL SHALL BE AS SPECIFIED.

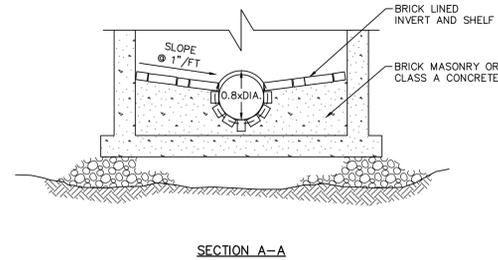


BOTTOM RAIL OPTION

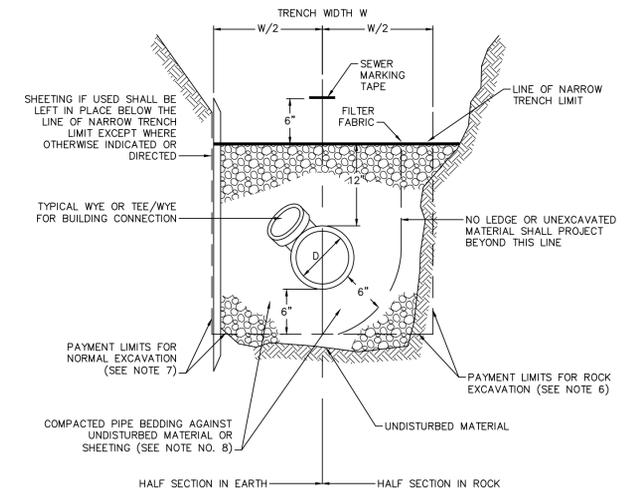
SCALE:	HORIZ.:	VERT.:	DATUM:	HORIZ.:	VERT.:	No.	DATE	DESCRIPTION	DESIGNER/REVIEWER
<p>FUSS & O'NEILL 146 HARTFORD ROAD MIDDLETOWN, CONNECTICUT 06040 860.646.2460 www.fuss.com</p>									
<p>DETAILS BUILDING 80 ADDITION ENABLING PROJECTS</p>									
<p>FACILITIES MASTER PLAN - ENABLING PROJECTS CONNECTICUT</p>									
<p>GROTON</p>									
<p>APPROVED BY THE CITY OF GROTON PLANNING AND ZONING COMMISSION</p>									
<p>CHAIRMAN/SECRETARY _____ DATE: _____</p>									
<p>NOT FOR CONSTRUCTION</p>									
<p>PROJ. No.: 1997570.A11 DATE: AUGUST 17, 2018</p>									
<p>CD-503</p>									



4' PRECAST MANHOLE
SCALE: N.T.S.



SECTION A-A



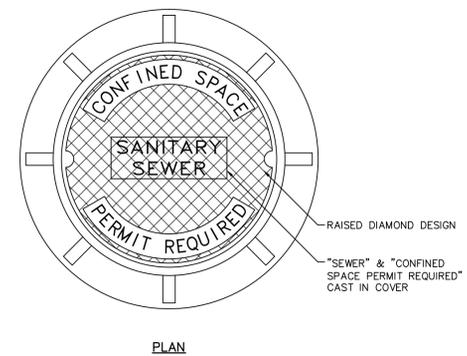
TYPICAL SEWER TRENCH
NOT TO SCALE

MANHOLE NOTES

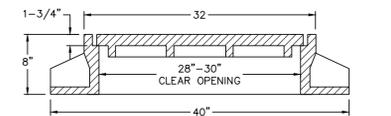
- ALL PIPES SHALL BE CUT FLUSH WITH INSIDE WALL OF STRUCTURE.
- MANHOLES SHALL BE PLACED ON 8" MINIMUM CRUSHED STONE BASE.
- MORTAR IN LIFTING HOLES AFTER INSTALLING RUBBER PLUGS.
- MANHOLES SHALL RECEIVE A BITUMINOUS DAMP-PROOFING PRIOR TO DELIVERY TO THE SITE.
- PROVIDE WATERTIGHT STUB AND FLEXIBLE SLEEVE AS NOTED ON THE DRAWING OR AS DIRECTED BY THE ENGINEER.
- PIPE TO MANHOLE JOINTS SHALL BE SEALED WATERTIGHT BY USE OF PRE-MOLDED ELASTOMERIC SEALED JOINTS CAST INTO CONCRETE MANHOLE BASE AND SHALL CONFORM TO ASTM C 443 AND ASTM C 923M.
- MANHOLE FRAME AND COVERS SHALL BE OF THE TYPE INDICATED BELOW OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED.

LOCATION	TYPE
GUTTERS, LOW LYING, WET UNPAVED AREAS	BOLTED & GASKETED (BOLTS SHALL BE 1/2" STAINLESS STEEL.)
NORMALLY DRY UNPAVED AND PAVED AREAS	STANDARD
- THE COVER SHALL HAVE THE WORDS "SANITARY SEWER", "CONFINED SPACE PERMIT REQUIRED" CAST INTO THE COVER IN 2" LETTERS.
- MANHOLE STEPS SHALL BE STEEL REINFORCED POLYPROPYLENE OR ALUMINUM.
- WHERE THE DIFFERENCE IN ELEVATION BETWEEN THE INCOMING SEWER AND THE MANHOLE INVERT IS 24" OR LESS, THE INVERT SHALL BE FILLETED.
- PAYMENT DEPTHS ARE MEASURED FROM TOP OF CONE TO INVERT OF STRUCTURE.

MANHOLE NOTES
SCALE: N.T.S.



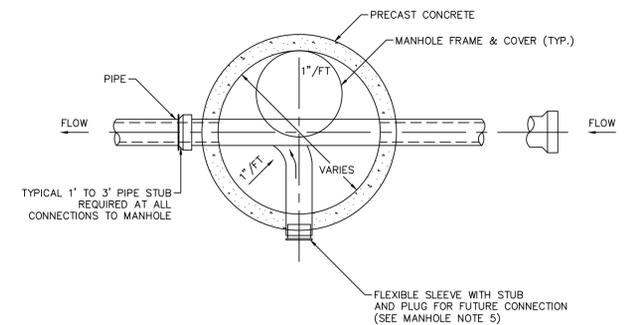
PLAN



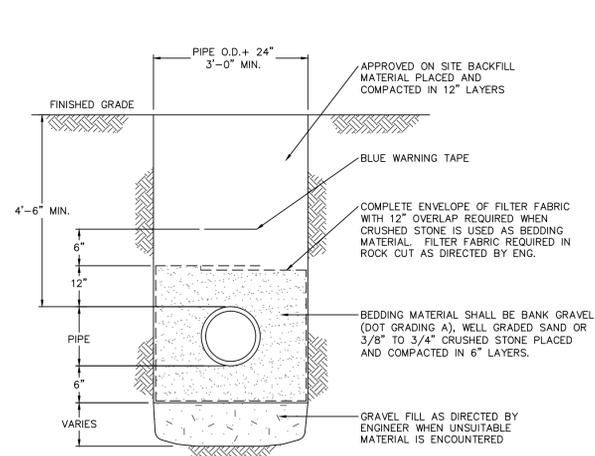
FRAME AND COVER SHALL BE LeBARON FOUNDRY CATALOG NO. LA328-1

SECTION

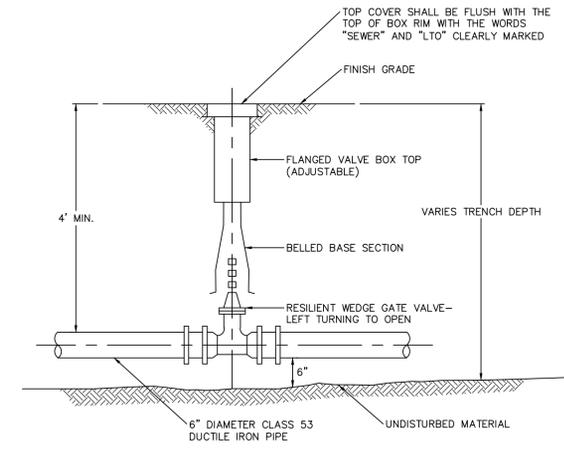
STANDARD SANITARY MANHOLE FRAME & COVER
SCALE: N.T.S.



MANHOLE PLAN VIEW
SCALE: N.T.S.



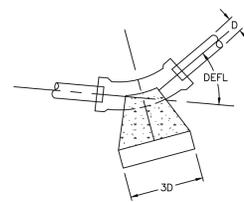
WATER TRENCH SECTION
 NOT TO SCALE



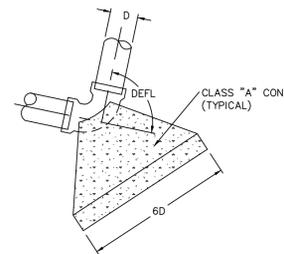
ISOLATION GATE VALVE
 NOT TO SCALE

PPE DIA. (INCHES)	MINIMUM THRUST BLOCK VOLUME (CUBIC YARDS)
4	0.2
6	0.25
8	0.3
10	0.35
12	0.4
16	0.7

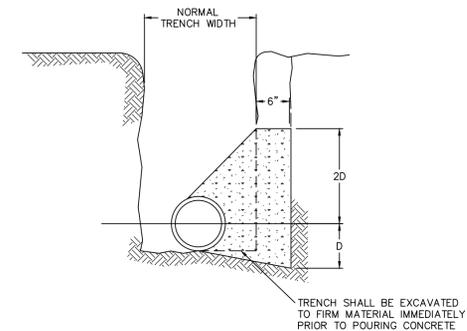
PPE DIA. (INCHES)	MINIMUM THRUST BLOCK VOLUME (CUBIC YARDS)
4	0.25
6	0.3
8	0.5
10	0.7
12	1.0
16	1.6



PLAN ELBOW - DEFL.
 LESS THAN 50



PLAN ELBOW - DEFL.
 MORE THAN 50



SECTION

CONCRETE THRUST BLOCKS
 NOT TO SCALE

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SCALE:	HORZ.:	VERT.:
DATUM:	HORZ.:	VERT.:

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FACILITIES MASTER PLAN - ENABLING PROJECTS
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 GROTON, CONNECTICUT

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CD-505

APPROVED BY THE CITY OF GROTON PLANNING AND ZONING COMMISSION

CHAIRMAN/SECRETARY _____

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