Woburn Fire Headquarters

WOBURN, MA

EARLY SITE PREPARATION
1 JULY 2020

Architects

DINISCO DESIGN
architects + planners

99 Chauncy Street, Suite 901
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(617) 426-2858

Consultants

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Landscape Architects
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#Consultant #1 Fax

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Hancock Associates
Surveyor
185 Centre Street
Danvers, MA 09123
(978) 777-3050
#Consultant #3 Fax

List of Drawings

GENERAL
ESP-G1 Title Sheet

SURVEY
ESP-G2 Existing Conditions: Site Survey

EARLY SITE PREPARATION
ESP-1 Demolition Plan
ESP-2 Loam Depth Plan
ESP-3 Erosion & Sedimentation Control Plan
ESP-4 Limit of Subbase Excavation Plan
ESP-5 Final Subbase Grade Plan

Woburn Fire Headquarters
FOREST PARK - WOBURN, MA 01801

1 JULY 2020

NOTICE OF INTENT

ESP Title Sheet

ESP-G1

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Woburn Fire Headquarters

WOBURN,, MA

ASSESSORS: PARCEL ID: 24–12–01

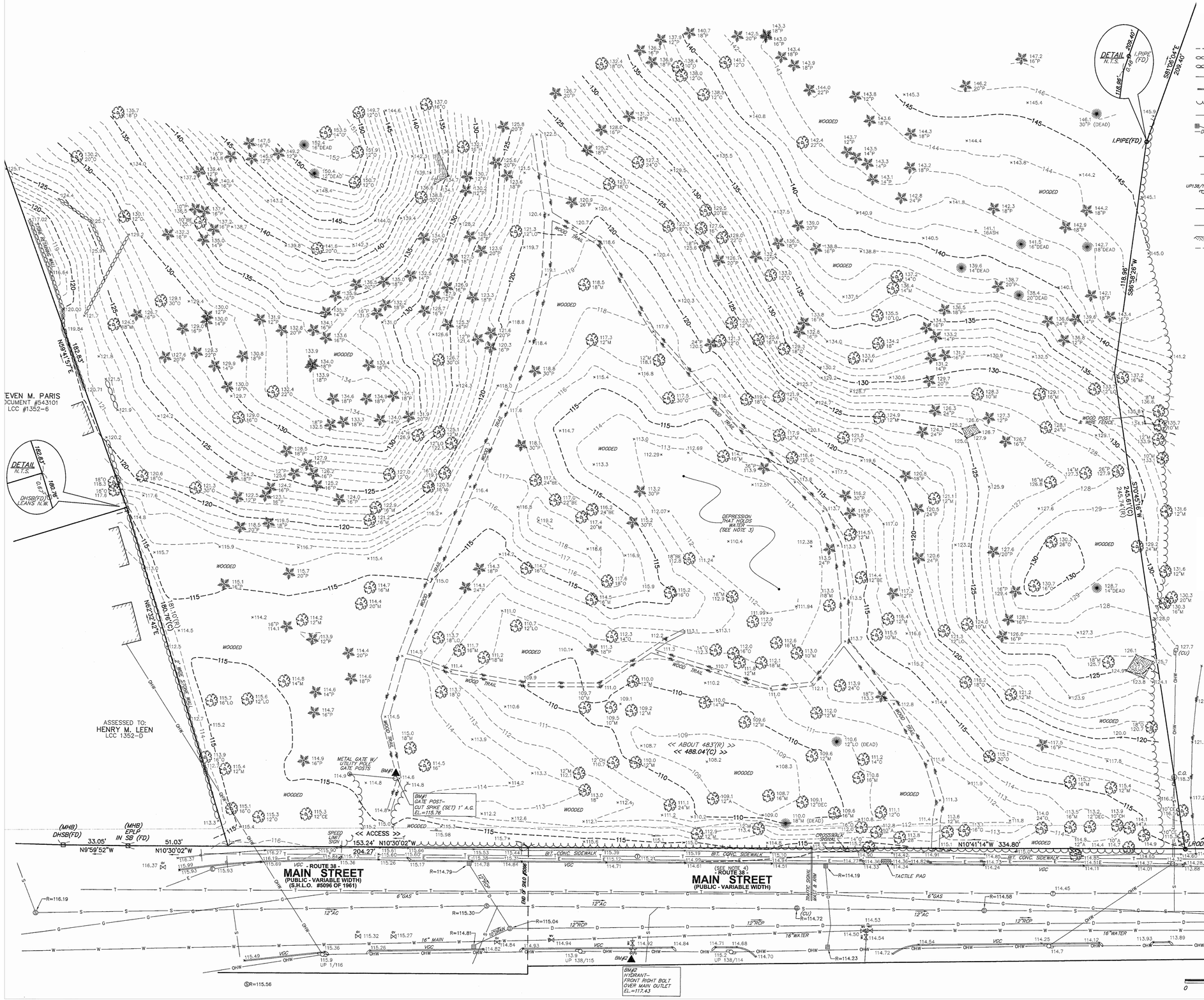
REFERENCES: DEED BOOK 2000, PAGE 284

RECORD OWNER: CITY OF WOBURN

MERIDIAN FROM MASS STATE HIGHWAY LAYOUT #5096

NOTES:

1) ELEVATIONS SHOWN HEREON REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). PROJECT SOURCE BENCHMARK IS A BRASS RIVET FOUND IN THE SOUTH CORNER OF THE BOTTOM STEP AT THE MAIN ENTRANCE TO THE WYMAN SCHOOL (EL.= 117.911' NAVD88).
2) UNDERGROUND UTILITIES SHOWN HEREON ARE COMPILED FROM FIELD LOCATIONS OF STRUCTURES AND FROM AVAILABLE RECORD INFORMATION ON FILE AT THE TOWN ENGINEERING OFFICES AND UTILITY COMPANIES. OTHER UNDERGROUND UTILITIES MAY EXIST. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION, SIZE & ELEVATION OF ALL UTILITIES WITHIN THE AREA OF PROPOSED WORK AND TO CONTACT "DIG–SAFE" AT 811 AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION, DEMOLITION OR CONSTRUCTION.
3) AREA NOTED HEREON AS BEING A "DEPRESSION THAT HOLDS WATER" WAS THE SUBJECT OF A "DETERMINATION OF APPLICABLITY" FROM THE WOBURN CONSERVATION COMMISSION (RDA). SAID RDA, ISSUED ON JUNE 14, 2019 NOTES THAT THE AREA IS NOT AN AREA SUBJECT TO PROTECTION UNDER THE WETLANDS PROTECTION ACT OR THE BUFFER ZONE.
4) SIDELINE OF MAIN STREET SHOWN HEREON BASED IN PART ON PLAN ENTITLED "PLAN OF MAIN STREET, WOBURN, AS ORDERED BY THE COUNTY COMMISSIONERS" DATED 1855, PROVIDED BY THE CITY OF WOBURN ENGINEERING DEPARTMENT.



DETAIL N.T.S. — 182.83' 0.6' 180.76' DHSB(FD) LEANS N.W.

DETAIL N.T.S. — 209.40' 0.4' 118.96' I.PIPE (FD)

DETAIL N.T.S. — 334.80' 150.00' 0.23' 0.28' I.ROD (FD) DOWN 0.2' LEANING

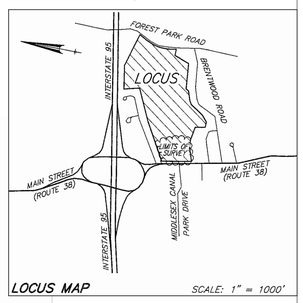
DETAIL N.T.S. — DH(FD) 0.55' 150.00' 427.63'(TIE) EPLP IN DHSB(FD) HELD

LEGEND

102	SURFACE CONTOUR
	STONE WALL
	STONE RETAINING WALL
x x x	WIRE FENCE
86.75 / 86.25	CURB WITH TOP AND BOTTOM CURB ELEVATION
	EDGE OF WOODED AREA
S 12"AC S	SEWERLINE & MANHOLE WITH PIPE SIZE, MATERIAL & FLOW DIRECTION
D 12"RCP D	DRAINLINE WITH PIPE SIZE, MATERIAL & FLOW DIRECTION, CATCHBASIN, & MANHOLE
W 12"	WATER MANHOLE, WATER MAIN WITH SIZE, TEE, GATE VALVE & FIRE HYDRANT
G 6"	GAS MAIN WITH SIZE, & GATE VALVE
UP138/115 OHW	EXISTING UTILITY POLE WITH DESIGNATION AND OVERHEAD WIRES
E	ELECTRIC MANHOLE & UNDERGROUND ELECTRIC LINES
T	TELEPHONE MANHOLE & UNDERGROUND TELEPHONE LINES
	EDGE OF LEDGE OUTCROP
	EDGE OF WOOD PATH
× 115.9	SPOT ELEVATION
130.2 20"O	PROMINENT DECIDUOUS TREE WITH ELEVATION, SIZE AND SPECIES
126.7 16"P	PROMINENT CONIFEROUS TREE WITH ELEVATION, SIZE AND SPECIES
	DEAD TREE
MH	MANHOLE (UNKNOWN UTILITY)
RCP	REINFORCED CONCRETE PIPE
AC	ASBESTOS CEMENT
CU	CONNECTION UNKNOWN
C.O.	CLEAN–OUT
	SIGN
DH	DRILL HOLE
DHSB	DRILL HOLE IN STONE BOUND
I.ROD	IRON ROD
MHB	MASS HIGHWAY BOUND
EPLP	ESCUTCHEON PIN IN A LEAD PLUG
CTR. BK.	CENTER BACK
VGC	VERTICAL GRANITE CURB

TREE ABBREVIATIONS

M	MAPLE
O	OAK
P	PINE
CE	CEDAR
CH	CHERRY
E	ELM
A	ASH
BE	BEECH
LO	LOCUST



LOCUS MAP SCALE: 1" = 1000'

Date: 1 JULY 2020

Drawn By:

Scale: AS NOTED

Date	Description

Existing Conditions: Site Survey

ESP-G2

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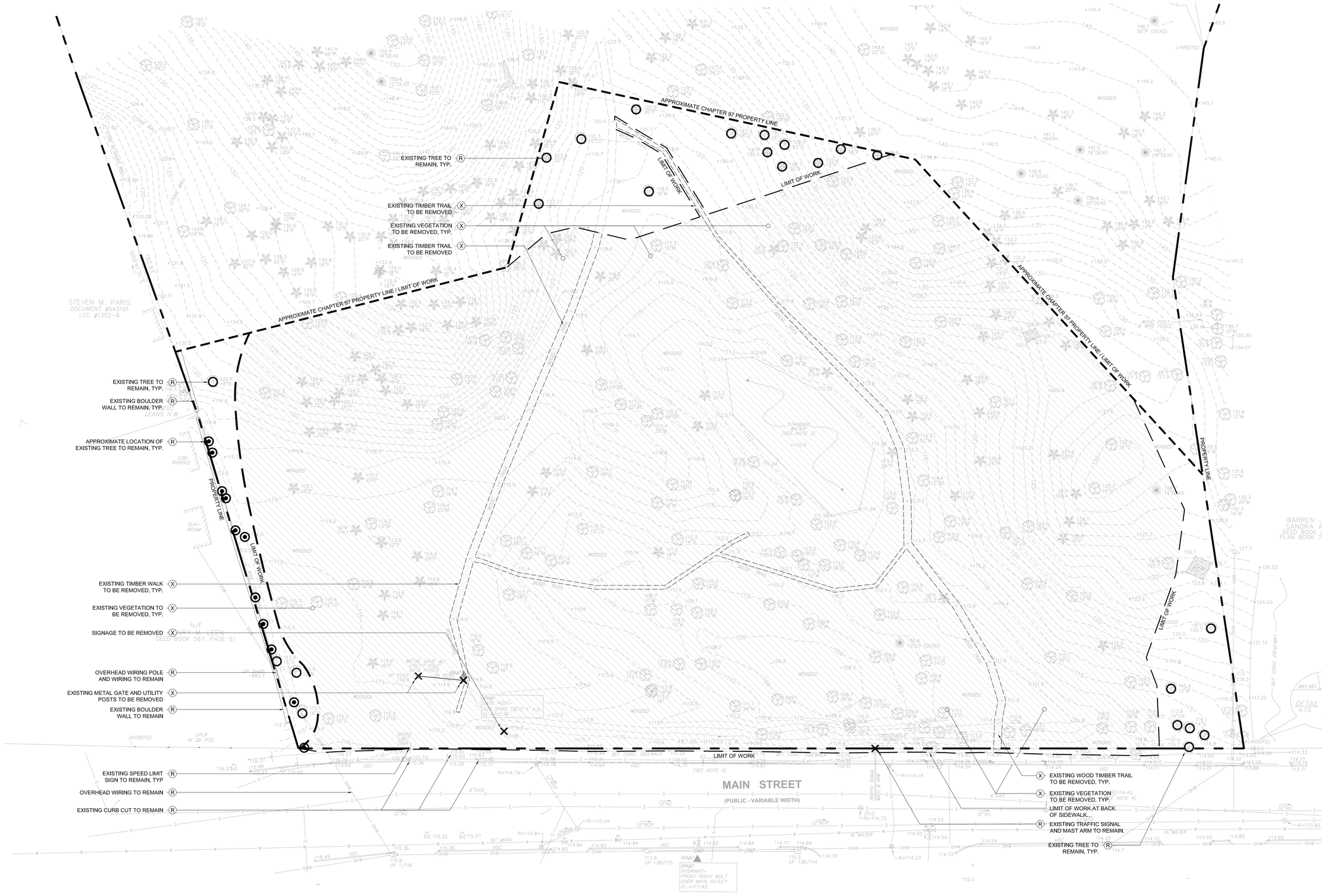
WOBURN FIRE HEADQUARTERS COMPLEX

Woburn, MA

DEMOLITION LEGEND	
(X)	REMOVE AND DISPOSE
(R)	REMAIN
	EXISTING VEGETATION TO BE REMOVED
	WOOD TIMBER SURFACING
	STONE WALL
	TREES TO REMAIN
	TREES TO REMAIN NOT SHOWN ON SURVEY
	MISCELLANEOUS SITE ELEMENT
	LIMIT OF WORK
	APPROXIMATE CHAPTER 97 PROPERTY LINE
	PROPERTY LINE

DEMOLITION NOTES

1. REFER TO SPECIFICATION SECTIONS:
   31 10 00 SITE PREPARATION - FOR FURTHER INFORMATION ON DEMOLITION AND SITE PREPARATION.
   31 20 00 EARTHWORK- FOR FURTHER INFORMATION ON SUBGRADE PREPARATION ON AREAS DISTURBED BY DEMOLITION.
   31 25 00 - EROSION AND SEDIMENTATION CONTROL
2. THE EXISTING CONDITIONS PLAN SHOWN ARE AS SURVEYED; BY - HANCOCK SURVEY ASSOCIATES, 185 CENTRE STREET, DANVERS, MA 01923
3. REFER TO SITE UTILITIES PLANS, AND STORM WATER DRAINAGE PLAN FOR FURTHER INFORMATION ON ANY DEMOLITION OR MODIFICATIONS TO EXISTING UNDERGROUND OR OVERHEAD UTILITIES.
4. COORDINATE SITE DEMOLITION WITH EROSION CONTROL AND STORM DRAINAGE REQUIREMENTS FOR THE DURATION OF THE PROJECT.
5. THE WORK DESCRIBED ON THIS PLAN IS THE GENERAL INTENT. THE CONTRACTOR SHALL INCLUDE IN THEIR BID ALL DEMOLITION WORK NECESSARY FOR THE PROPOSED IMPROVEMENTS.
6. THIS PLAN INDICATES THE DEMOLITION OF FEATURES ON THE SURFACE OF THE SITE, INCLUDING FOOTING, FOUNDATION AND SUB-BASE MATERIALS.
7. THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE TO FAMILIARIZE HIM/HERSELF WITH THE FULL SCOPE OF THE DEMOLITION REQUIRED FOR THE EXECUTION OF THE PROJECT CONTRACT AND SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD. REPORT ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS PLAN, AND THE ACTUAL SITE CONDITIONS, TO THE ARCHITECT, PRIOR TO BEGINNING WORK.
8. IN GENERAL - ALL EXISTING MATERIALS WITHIN THE CONSTRUCTION AREA / LIMIT OF WORK, AND WHERE NEW MATERIALS ARE SHOWN ON THE CONSTRUCTION DRAWINGS ARE TO BE REMOVED AND DISPOSED OF LEGALLY OFFSITE. EXISTING ITEMS TO BE DEMOLISHED INCLUDE, THOUGH ARE NOT LIMITED TO; SUB-BASES, FOOTINGS, EXISTING BOULDER WALLS, VEGETATION AND ROOT STRUCTURES UNLESS NOTED.
9. THE GENERAL CONTRACTOR SHALL COORDINATE THE SEQUENCE OF DEMOLITION AND ALL SITE IMPROVEMENTS TO PROVIDE UNINTERRUPTED ACCESS FOR THE ABUTTING PROPERTIES FOR THE DURATION OF THE PROJECT.
10. COORDINATE THE INSTALLATION OF ALL NEW TEMPORARY FENCING REQUIRED TO SECURE THE SITE AS REQUIRED DURING THE EXECUTION OF THE PROJECT CONTRACT.
11. ALL TREES, SHRUBS, GROUNDCOVER, STUMPS AND GROUNDCOVER WITHIN THE LIMIT OF WORK SHALL BE REMOVED IN THE EXECUTION OF THE PROPOSED SITE IMPROVEMENTS, UNLESS NOTED TO REMAIN.
12. FOR ALL TREES TO BE REMOVED, AND OR EXISTING STUMPS ON THE SITE - ALL STUMPS SHALL BE COMPLETELY REMOVED.



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NORTH ARROW

LICENSE STAMP

Date: 1 JULY 2020

Drawn By: JCS

Scale: 0 20 40

Revisions

Number	Date	Description

EARLY SITE PACKAGE

Demolition Plan

ESP-1

© 2019 DiNisco Design - [30" x 42"] - 8/23/19

NOTES:

1. REMOVE ALL TOPSOIL FROM SITE EXCEPT QUANTITY NEEDED TO LOAM AND SEED SLOPED AREAS SHOWN ON ESP-5.
2. THE TOPOGRAPHY AND EXISTING CONDITIONS DEPICTED HEREON ARE THE RESULT OF AN ON THE GROUND FIELD SURVEY CONDUCTED BY HANCOCK ASSOCIATES IN JUNE, 2019.
3. THE SUBSURFACE TEST PIT DATA DEPICTED HEREON ARE THE RESULT OF FIELD OPERATIONS CONDUCTED BY GZA GEOENVIRONMENTAL, INC. BETWEEN SEPTEMBER 19 AND 23, 2019 AND BETWEEN APRIL 16 AND 17, 2020.

LEGEND:

TP — TEST PIT NUMBER [TOP SOIL DEPTH]

BORING LOG:

Test Pit ID	Ground Surface Elevation (ft)	Topsoil Depth (ft)	Subsoil Depth (ft)	Refusal Depth (ft)	Refusal Elevation (ft)
TP-1	113	1	NE	12	101
TP-2	113	1	NE	10.4	102.6
TP-3	117	0.7	1.1	7.2	109.8
TP-4	110	1.3	0.9	9	101
TP-5	123	0.8	3.2	5.3	117.7
TP-6	114	0.9	1.3	7.2	106.8
TP-7	108.5	1	3	10	98.5
TP-8	121	0.6	2.1	8.4	112.6
TP-9	114.5	0.9	1.5	12.3	102.2
TP-10	115	0.3	1.2	9	106
TP-11	127	0.7	2.1	11.7	115.3
TP-12	125	1	1.4	12	113
TP-13	118	0.7	2.4	12	106
TP-14	122	0.9	1.8	8.2	113.8
TP-15	121.5	1	2	7.9	113.6
TP-16	110	1	1	12	98
TP-17	112	0.7	2.3	6.7	105.3
TP-18	115.5	0.8	1.2	7.2	108.3
TP-19	118	1.1	1.1	7.1	110.9
TP-20	115	0.8	3.9	9.4	105.6
TP-21	126	0.9	2.5	8.7	117.3
TP-22	124	0.7	2	6.3	117.7
TP-23	114.5	0.7	2	5.3	109.2
TP-24	115	0.7	1.5	6.4	108.6
TP-25	110	0.9	1.1	3.1	106.9
TP-26	115.5	0.6	1.4	4	111.5
TP-27	116.5	0.5	2.7	6	110.5
TP-28	115	0.6	1.4	4	111
TP-29	117.5	0.7	2	4.5	113
TP-30	112.5	0.7	2.3	4	108.5
TP-31	113	0.5	1	4	109
TP-101	134	0.5	2	3.9	130.1
TP-102	125	0.5	1.5	8.5	116.5
TP-103	124	0.5	2.5	11.2	112.8
TP-104	129	0.5	2	9.5	119.5
TP-105	120	0.5	3.5	10.5	109.5
TP-106	125	0.5	2.5	12	113
TP-107	119	0.5	3	14	105
TP-108	133	0.5	2	0	133
TP-109	120	0.5	3	6	114
TP-110	114	1.5	4.5	12.3	101.7
TP-111	115	0.5	NE	12	103

Note:
NE = Not Encountered

WOBURN FIRE HEADQUARTERS COMPLEX
Early Site Preparation
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N — NORTH ARROW

COMMONWEALTH OF MASSACHUSETTS — RICHARD A. CLAYTON — NO. 49116 — REGISTERED PROFESSIONAL ENGINEER
6-23-2020
LICENSE STAMP

Date: JULY 1, 2020

Drawn By:

Scale: 0 20 40

Revisions

Number	Date	Description

SCHEMATIC DESIGN

LOAM DEPTH EXCAVATION PLAN

ESP-2

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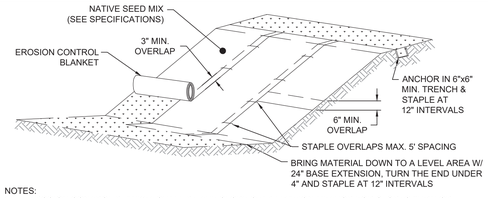
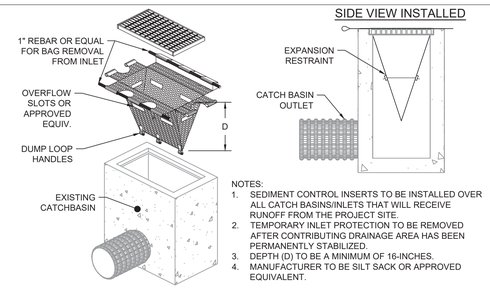


NOTES:
1. EROSION CONTROL BLANKET SHALL BE THE SLOPE STABILIZATION METHOD FOR SLOPES 3H:1V OR GREATER WHERE LOAM AND SEED HAVE BEEN APPLIED.
2. EROSION CONTROL BLANKET IS NOT NECESSARY WHERE LEDGE IS EVIDENT IF SURFACE IS STABLE.
3. EROSION CONTROL BLANKET TO BE ALL NATURAL MATERIAL SUITABLE FOR TEMPORARY STABILIZATION - NORTH AMERICAN GREEN BIONET S150BN OR APPROVED EQUIVALENT.
4. SLOPE SURFACE SHALL BE SMOOTH BEFORE PLACEMENT FOR PROPER SOIL CONTACT.
5. STAPLING PATTERN AS PER MANUFACTURER'S RECOMMENDATIONS.
6. DO NOT STRETCH BLANKETS/MATTINGS TIGHT. ALLOW THE ROLLS TO MOLD TO ANY IRREGULARITIES.
7. LIME, FERTILIZE AND SEED BEFORE INSTALLATION. PLANTING OF SHRUBS, TREES, ETC. SHOULD OCCUR AFTER INSTALLATION.

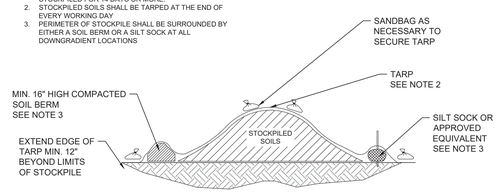
EROSION CONTROL BLANKET
NOT TO SCALE



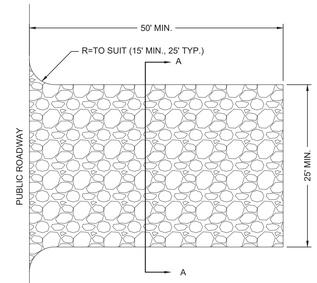
NOTES:
1. SEDIMENT CONTROL INSERTS TO BE INSTALLED OVER ALL CATCH BASINS/INLETS THAT WILL RECEIVE RUNOFF FROM THE PROJECT SITE.
2. TEMPORARY INLET PROTECTION TO BE REMOVED AFTER CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
3. DEPTH (D) TO BE A MINIMUM OF 16-INCHES.
4. MANUFACTURER TO BE SILT SACK OR APPROVED EQUIVALENT.

TEMPORARY CATCH BASIN INSERT WITH INLET PROTECTION
NOT TO SCALE

NOTE:
1. EROSION CONTROLS TO BE USED IF SOIL IS TO BE STOCKPILED FOR 14 DAYS OR MORE.
2. STOCKPILED SOILS SHALL BE TARPED AT THE END OF EVERY WORKING DAY.
3. PERIMETER OF STOCKPILE SHALL BE SURROUNDED BY EITHER A SOIL BERM OR A SILT SOCK AT ALL DOWNGRADIENT LOCATIONS



SOIL STOCKPILE
NOT TO SCALE



PLAN VIEW

PLAN VIEW **SECTION**

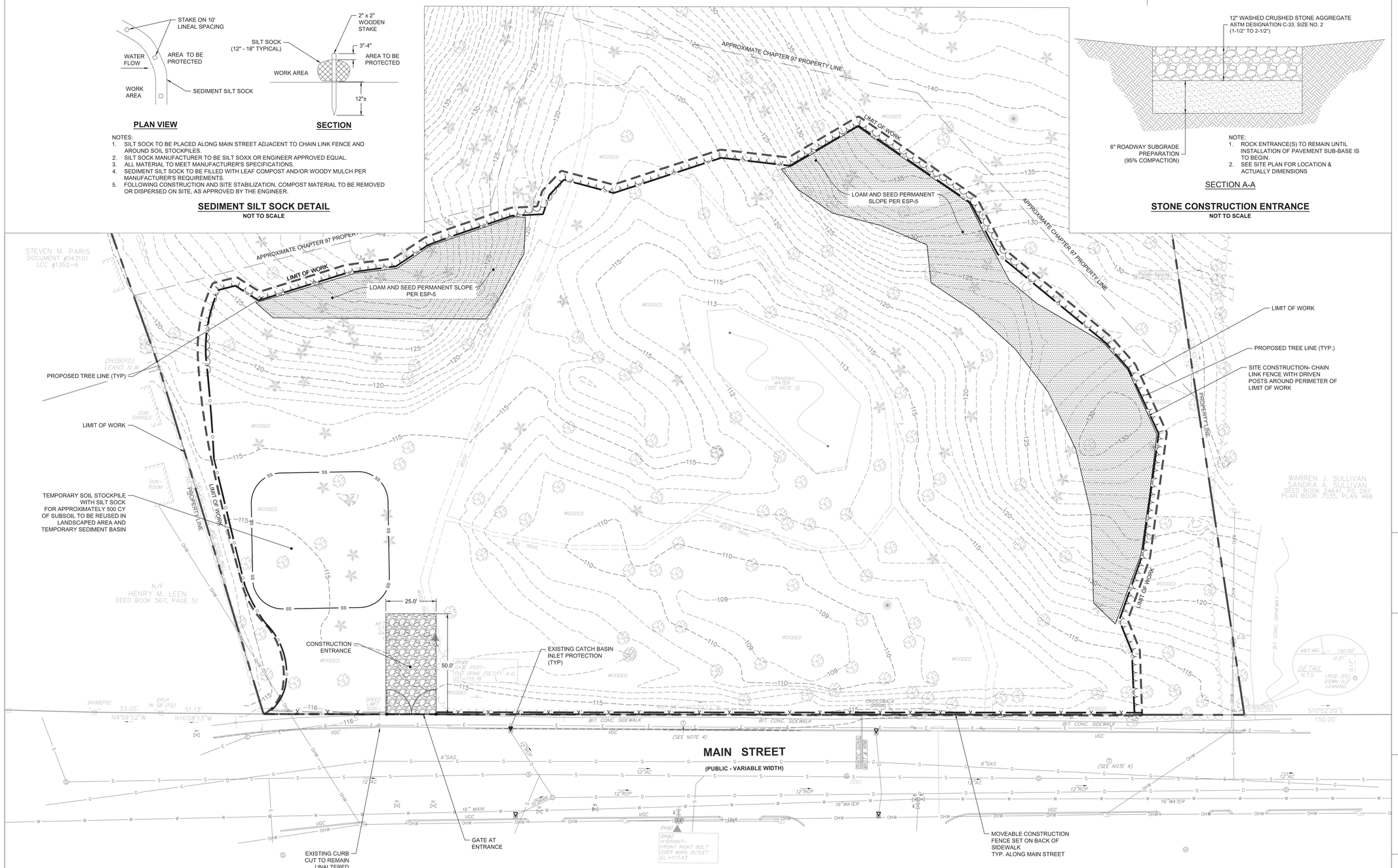
NOTES:
1. SILT SOCK TO BE PLACED ALONG MAIN STREET ADJACENT TO CHAIN LINK FENCE AND AROUND SOIL STOCKPILES.
2. SILT SOCK MANUFACTURER TO BE SILT SOXX OR ENGINEER APPROVED EQUAL.
3. ALL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS.
4. SEDIMENT SILT SOCK TO BE FILLED WITH LEAF COMPOST AND/OR WOODY MULCH PER MANUFACTURER'S REQUIREMENTS.
5. FOLLOWING CONSTRUCTION AND SITE STABILIZATION, COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE, AS APPROVED BY THE ENGINEER.

SEDIMENT SILT SOCK DETAIL
NOT TO SCALE

NOTE:
1. ROCK ENTRANCE(S) TO REMAIN UNTIL INSTALLATION OF PAVEMENT SUB-BASE IS TO BEGIN.
2. SEE SITE PLAN FOR LOCATION & ACTUALLY DIMENSIONS

SECTION A-A

STONE CONSTRUCTION ENTRANCE
NOT TO SCALE



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N
NORTH ARROW

LICENSE STAMP
6-29-2020

Date: JULY 1, 2020
Drawn By:
Scale: 0 20 40

Revisions

Number	Date	Description

SCHEMATIC DESIGN

EROSION AND SEDIMENTATION CONTROL PLAN

ESP-3

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NOTES:

1. THE PROPOSED CONTOURS SHOWN ARE THE ANTICIPATED GRADES OF THE LIMITS OF EXCAVATION BASED ON THE AVAILABLE SOIL TEST INFORMATION. THESE GRADES ARE TO BE USED AS THE BASIS FOR THE COST ESTIMATING FOR THE BIDS. THE CONTRACTOR SHALL REMOVE THE MATERIAL REQUIRED ONLY TO THE DEPTH OF THE EXISTING SAND/SAND AND GRAVEL SOIL WHICH MAY BE SHALLOWER OR DEEPER THAN INDICATED BY THE PROPOSED CONTOURS AND THE CONTRACT AMOUNT IS TO BE ADJUSTED PER UNIT PRICE AS DETERMINED BY SURVEY OF THE FINISHED EXCAVATION. SEE NOTE 2 BELOW.
2. PRIOR TO FILLING IN ANY PARTICULAR PORTION OF THE SITE, THE FINISHED EXCAVATION SHALL BE SURVEYED AND AN AS-BUILT EXCAVATION TOPOGRAPHIC PLAN SHALL BE PROVIDED BY THE OWNER'S SURVEYOR.
3. EXCEPT WHERE SPECIFICALLY SPECIFIED TO BE REUSED ON SITE, ALL EXCAVATED TOPSOIL AND SUBSOIL SHALL BE REMOVED FROM SITE.
4. APPROXIMATELY 250 CY OF LEDGE SHALL BE REMOVED FROM SHADED AREAS TO ELEVATIONS SHOWN.

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NORTH ARROW

LICENSE STAMP

RICHARD A. CLAYTOR JR. CIVIL NO. 49146 Registered Professional Engineer

6-29-2020

Date: JULY 1, 2020

Drawn By:

Scale: 0 20 40

Revisions

Number	Date	Description

SCHEMATIC DESIGN

LIMIT OF EXCAVATION PLAN

ESP-4

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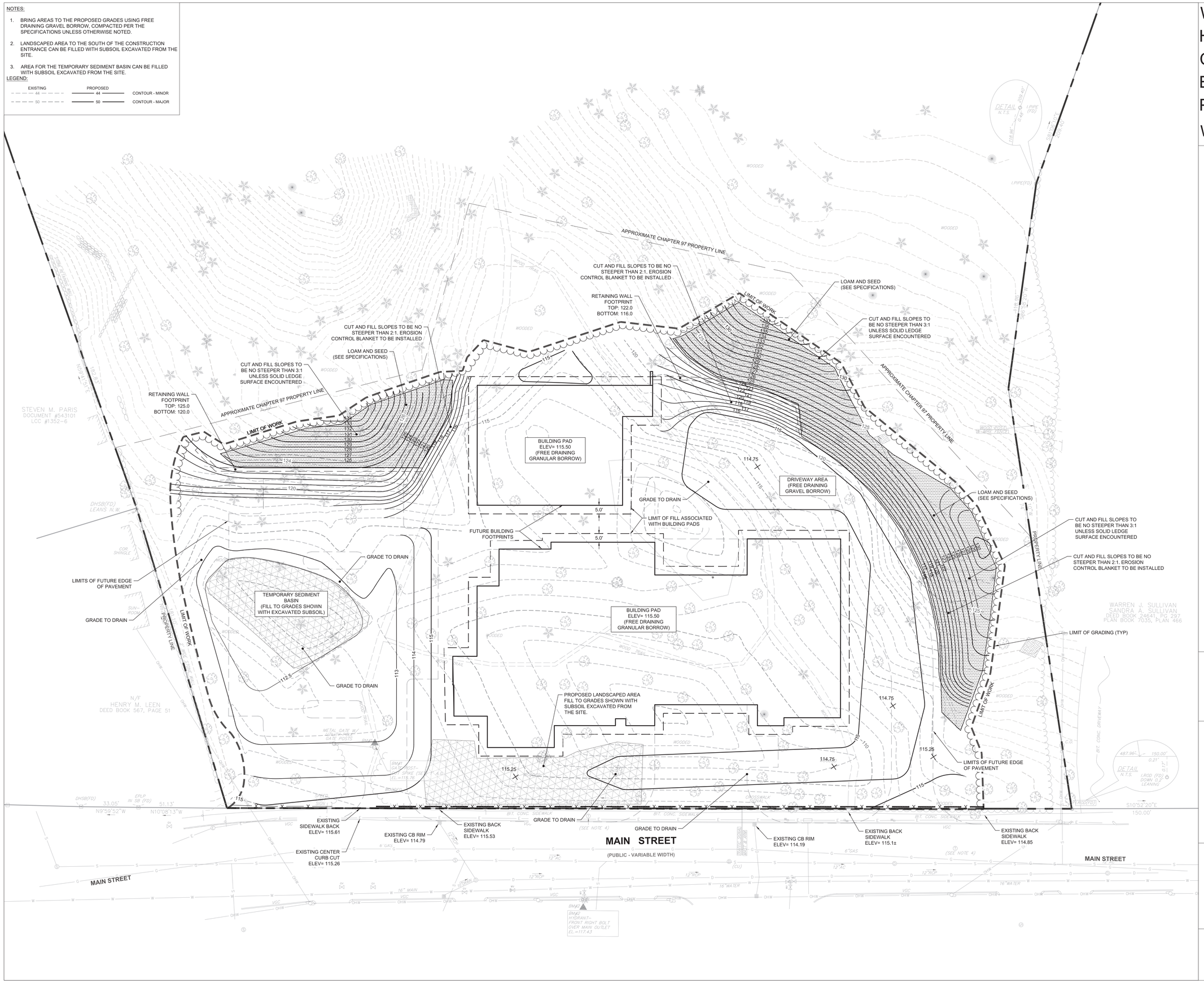
NOTES:

1. BRING AREAS TO THE PROPOSED GRADES USING FREE DRAINING GRAVEL BORROW, COMPACTED PER THE SPECIFICATIONS UNLESS OTHERWISE NOTED.
2. LANDSCAPED AREA TO THE SOUTH OF THE CONSTRUCTION ENTRANCE CAN BE FILLED WITH SUBSOIL EXCAVATED FROM THE SITE.
3. AREA FOR THE TEMPORARY SEDIMENT BASIN CAN BE FILLED WITH SUBSOIL EXCAVATED FROM THE SITE.

LEGEND:

EXISTING	PROPOSED	
44	44	CONTOUR - MINOR
50	50	CONTOUR - MAJOR



WOBURN FIRE HEADQUARTERS COMPLEX

Early Site Preparation

Woburn, MA

DINISCO DESIGN architects + planners

99 Chauncy Street Suite 901
Boston, MA 02111
(617) 426-2858

Mitchell Associates PLLC
Fire Facilities Consultant
29 Thacher Park Road
Voorheesville, NY 12186
(518) 765-2950

Horsley Witten Group
Civil & Environmental Engineers
90 Route 6A
Sandwich, MA 02563
(508) 833-6600

Brown Sardina, Inc.
Landscape Architects
24 Roland Street
Boston, MA 02129
(617) 482-4703

Foley Buhl Roberts & Assoc., Inc.
Structural Engineers
2150 Washington Street
Newton, MA 02462
(617) 527-9600

VAV International, Inc.
Mechanical Engineers
400 West Cummings Park S. 4700
Woburn, MA 01801
(781) 935-7228

Thompson Engineering
Electrical Engineers
10 City Square
Boston, MA 02129
(617) 886-9066

EdVance Technology Design, Inc.
Technology Consultants
300 Brickstone Square, Suite 201
Andover, MA 01880
(978) 256-9900

Hancock Associates
Surveyor
185 Centre Street
Danvers, MA 09123
(978) 777-3050

NORTH ARROW

LICENSE STAMP

Date: JULY 1, 2020

Drawn By:

Scale: 0 20 40

Revisions

Number	Date	Description

SCHEMATIC DESIGN

FINAL GRADING PLAN

ESP-5

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