

# A&B EXCAVATION

## 69 FITCH HILL RD & LEFFINGWELL RD

### MONTVILLE, CT

#### ZONING COMPLIANCE CHART

ZONING DISTRICT: LI

| ITEM               | REQUIRED  | PROPOSED      |
|--------------------|-----------|---------------|
| LOT AREA           | 40,000 SF | 1,482,199 SF  |
| LOT FRONTAGE       | 100 FT    | 201 FT        |
| FRONT YARD SETBACK | 50 FT     | 50 FT         |
| SIDE YARD SETBACK  | 30 FT     | 65 FT & 34 FT |
| REAR YARD SETBACK  | 30 FT     | 710 FT        |
| BUILDING HEIGHT    | N/A       | N/A           |

#### PARKING CALCULATIONS

##### BUILDING 1

6,000 SF @ 1 SPACE/1,000 SF = 6 SPACES  
6 SPACES PROVIDED

##### BUILDING 2

19,920 SF @ 1 SPACE/1,000 SF = 20 SPACES  
26 SPACES PROVIDED

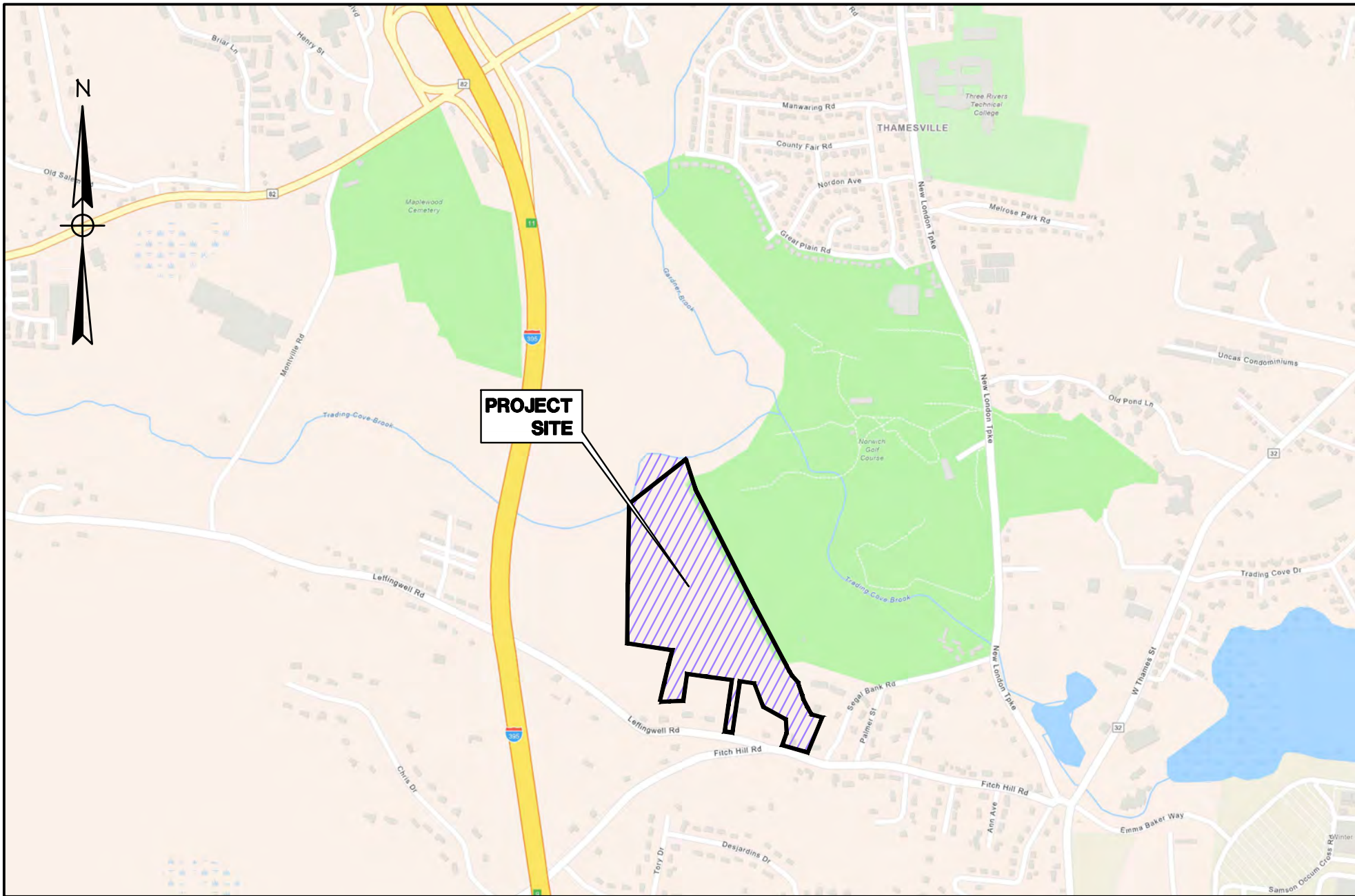
##### BUILDING 3

19,920 SF @ 1 SPACE/1,000 SF = 20 SPACES  
26 SPACES PROVIDED

##### FRONT OFFICE BUILDING

4,566 SF OFFICE SPACE  
@ 1 SPACE/250 SF = 18 SPACES

1,916 SF STORAGE/WAREHOUSE  
@ 1 SPACE/1000 SF = 2 SPACES  
20 SPACES PROVIDED



LOCATION MAP

SCALE: 1"= 1000'

## INDEX TO DRAWINGS

| DRAWING NO. | DESCRIPTION OF DRAWINGS |
|-------------|-------------------------|
| 1           | COVER                   |
| 2-3         | BOUNDARY SURVEY         |
| 4           | SITE PLAN               |
| 5-6         | GRADING/E&S PLANS       |
| 7           | SEPTIC PLAN             |
| 8           | SITE DETAILS            |
| 9           | SEPTIC DETAILS          |
| 10          | E&S DETAILS             |
| 11          | PLANTING PLAN           |

**OWNER/APPLICANT:**  
**ANDREW PETROWSKI**  
**37 COVE RD**  
**UNCASVILLE, CT 06382**

**ADDRESS:**  
**69 FITCH HILL RD & LEFFINGWELL RD**  
**MONTVILLE, CT**

**MAP/LOT:**  
**#062-036-000**

**MAY 25, 2023**  
**MAY 5, 2023**  
**APRIL 2023**

**GREEN SITE**  
**DESIGN**  
**— LLC —**

317 Main Street Norwich, Connecticut  
(860) 892-1380 Fax (860) 886-9165

EROSION & SEDIMENT CONTROL PLAN CERTIFIED BY THE VOTE OF THE MONTVILLE  
PLANNING & ZONING COMMISSION

CHAIRMAN OR SECRETARY OF THE COMMISSION \_\_\_\_\_ DATE \_\_\_\_\_

I HAVE REVIEWED THE WETLANDS ON THE PROPERTY IN THE FIELD AND HAVE  
REVIEWED THE WETLANDS AS SHOWN ON THE PLAN AND FIND THAT THEY  
SUBSTANTIALLY REPRESENT THE WETLANDS AS DELINEATED IN THE FIELD.

JOSEPH R. THEROUX \_\_\_\_\_ DATE \_\_\_\_\_  
CERTIFIED SOIL SCIENTIST

#### LEGEND

|                |                      |
|----------------|----------------------|
| — — — — —      | PROPERTY LINE        |
| — D — — — — —  | EDGE OF PAVEMENT     |
| — W — — — — —  | DRAINAGE             |
| — S — — — — —  | WATER                |
| — — — — —      | SEWER                |
| — — — — —      | GAS                  |
| — E — — — — —  | ELECTRIC             |
| — 21 — — — — — | CONTOUR              |
| ~~~~~          | TREE LINE            |
| — — — — —      | GUIDERAIL            |
| • — •          | SIGNS                |
| ⊗              | CATCH BASIN          |
| ⊙              | IRON PIN, IRON PIPE  |
| MS, CHD, MON   |                      |
| ⊕              | FIRE HYDRANT         |
| ⊗              | ELECTRIC MANHOLE     |
| ⊙              | SEWER MANHOLE        |
| ⊕              | GAS GATE, WATER GATE |
| ⊗              | LAMP                 |

MATCH TO SHEET 2

N/F  
SERVICE STATION  
EQUIPMENT INC.  
33 LEFFINGWELL ROAD  
VOLUME 532 PAGE 358

N/F  
SERVICE STATION EQUIPMENT INC.  
33 LEFFINGWELL ROAD  
VOLUME 532 PAGE 358

N/F  
JOSE ALVAREZ &  
JEREIDI ALVAREZ  
21 LEFFINGWELL ROAD  
VOLUME 654 PAGE 746

N/F  
VI T TRUONGCAO &  
LAN N LA  
17 LEFFINGWELL ROAD  
VOLUME 373 PAGE 568

N/F  
JIN WEN CHEUNG &  
LAI PING LI  
9 LEFFINGWELL ROAD  
VOLUME 529 PAGE 544

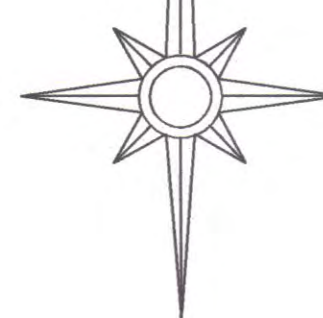
N/F  
ROBERT M COGGESHALL &  
KATHY L COGGESHALL  
73 OLD FITCH HILL ROAD  
VOLUME 486 PAGE 192

N/F  
JESSE DEVELOPMENT  
14 OLD FITCH HILL ROAD  
VOLUME 495 PAGE 1099

N/F  
ROBERT M COGGESHALL &  
KATHY L COGGESHALL  
9 OLD FITCH HILL ROAD  
VOLUME 191 PAGE 658

SEE SHEET 2 OF 2 FOR SURVEY NOTES AND REFERENCES

NORTH



N/F  
CITY OF NORWICH  
OLD FITCH HILL ROAD  
VOLUME 133 PAGE 877

JAMES BERNARDO  
LAND SURVEYING, LLC  
102A SPITHEAD ROAD  
WATERFORD, CONNECTICUT 06385  
(860) 447-0236  
WWW.JBSURVEY.COM



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AND RETRIEVAL SYSTEM, WITHOUT THE  
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A FLOOD ZONE LINES  
ADDED AND NOTE 5  
REVISED 7-14-2022

LTR DESCRIPTION DATE  
REVISIONS

BOUNDARY & TOPOGRAPHIC SURVEY  
PROPERTY OF  
**ANDREW PETROWSKI**  
FOR PROPERTY LOCATED AT  
**69 FITCH HILL ROAD  
& LEFFINGWELL ROAD**  
TOWN OF MONTVILLE - COUNTY OF NEW LONDON - CONNECTICUT

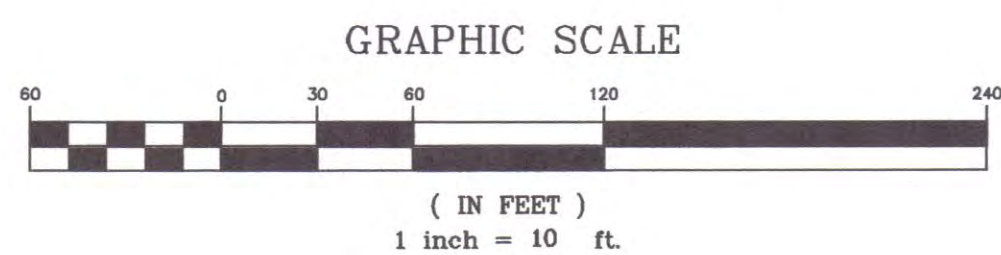
Sheet No.  
**S-01**

SHEET 1 OF 1

Scale:  
1"=60'

Date  
JULY 1, 2022

Project No.  
21101-1



LEGEND  
THE FOLLOWING SYMBOLS/ABBREVIATIONS  
MAY APPEAR ON THIS DRAWING

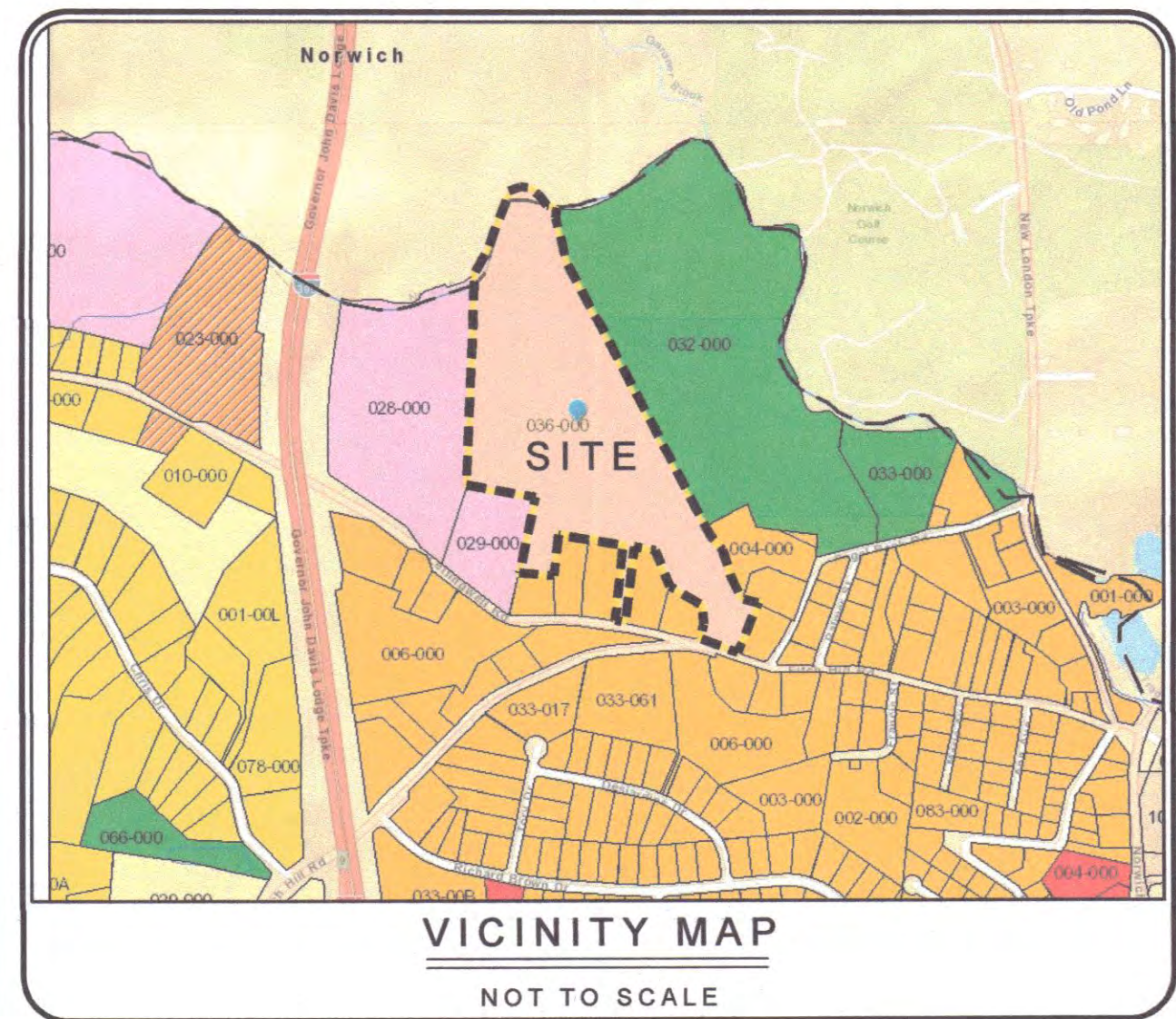
|       |                                 |       |                         |
|-------|---------------------------------|-------|-------------------------|
| AC    | ACRES                           | HTB   | HIGH TIDE BUSH          |
| BF    | BASEMENT FLOOR                  | SP    | SPARTINA PATENS         |
| BIT   | BITUMINOUS                      | SA    | SPARTINA ALTERNIFLORA   |
| BCLC  | BITUMINOUS CONCRETE LIP CURBING | TBR   | TO BE REMOVED           |
| CONC  | CONCRETE                        | TYP   | TYPICAL                 |
| DIA   | DIAMETER                        | ⊕ P-5 | SOIL PERC TEST LOCATION |
| DB    | DISTRIBUTION BOX                | ⊕ TH8 | SOIL DEEP TEST LOCATION |
| EOP   | EDGE OF PAVEMENT                | ⊕ W   | WELL                    |
| ELEV  | ELEVATION                       | ⊕ H   | HYDRANT                 |
| FF    | FINISHED FIRST FLOOR            | ⊕ T   | TREE                    |
| LF    | LINEAR FOOT                     | ---   | BUILDING SETBACK LINE   |
| (MIN) | MINIMUM                         | ---   | CLEARING LIMIT LINE     |
| M/L   | MORE OR LESS                    | ---   | EXISTING TREELINE       |
| N/F   | NOW OR FORMERLY                 | ---   | EXISTING CONTOUR        |
| PVC   | POLY VINYL CHLORIDE             | ---   | NEW CONTOUR             |
| SCH40 | SCHEDULE 40                     | ---   | SEDIMENT FENCE          |
| 5.4x  | SPOT ELEVATION                  | ---   | STORM DRAIN PIPE        |
| SF    | SQUARE FEET                     | ---   | STONE WALL              |
| TR    | TO REMAIN                       | ---   | S SANITARY SEWER        |
|       |                                 | ---   | W WATER                 |

TOTAL AREA=1,477,400 SQ FT M/L  
33.9 ACRES M/L



TO THE BEST OF MY KNOWLEDGE AND BELIEF THIS MAP IS  
SUBSTANTIALLY CORRECT AS NOTED HEREON.

James Bernardo  
JAMES BERNARDO LICENSE #70121  
DATE 7-14-2022



N/F  
CITY OF NORWICH  
OLD FITCH HILL ROAD  
VOLUME 133 PAGE 877

N/F  
SERVICE STATION  
EQUIPMENT INC.  
33 LEFFINGWELL ROAD  
VOLUME 532 PAGE 358

N/F  
CITY OF NORWICH  
OLD FITCH HILL ROAD  
VOLUME 133 PAGE 877

- NOTES:

1. THIS PLAN AND THE SURVEY IT IS BASED ON HAVE BEEN PREPARED IN ACCORDANCE WITH THE REGULATIONS OF CONNECTICUT STATE AGENCIES, SECTIONS 20-300B MINIMUM ACCURACY, 20-300C ACCURACY, AND 20-300D ACCURACY. THE SURVEY IS BASED ON THE SURVEY DATA OF THE SURVEYORS AND MAPS. THE TYPE OF SURVEY IS AN IMPROVEMENT LOCATION SURVEY, THE BOUNDARY DETERMINATION CATEGORY IS REFERENCE TO IMPROVEMENT AND THE HORIZONTAL ACCURACY CONFORMS TO CLASS A, THE VERTICAL ACCURACY CONFORMS TO CLASS B AND THE VERTICAL ACCURACY CONFORMS TO CLASS V.
2. NO DECLARATION IS EXPRESSED OR IMPLIED BY THIS MAP OR COPIES THEREOF UNLESS THE PRINT BEARS THE IMPRESSION TYPE SEAL AND ORIGINAL, LIVE SIGNATURE OF THE SURVEYOR WHOSE NAME AND REGISTRATION NUMBER APPEARS HEREON.
3. REFERENCE IS MADE TO TOWN OF MONTVILLE LAND EVIDENCE RECORDS VOLUME 675 AT PAGE 312 FOR A WARRANTY DEED DATED SEPTEMBER 30, 2021 REGARDING RECORD TITLE TO THE SUBJECT PROPERTY.
4. THE PROPERTY SHOWN HEREON IS SUBJECT TO, OR MAY BENEFIT BY THE FOLLOWING:
  - A. SEE VOLUME 474 AT PAGE 936 FOR A WELL EASEMENT AGREEMENT BY AND BETWEEN FITCH HOMESTEAD, LLC AND ROBERT M. COGGESHALL DATED SEPTEMBER 9, 2005.
  - B. NO RECORD WAS FOUND ON FILE IN THE MONTVILLE LAND RECORDS FOR THE DRAINAGE DISCHARGE PIPE FROM LEFFINGWELL ROAD.
  - C. THE SUBJECT PROPERTY IS LOCATED ENTIRELY WITHIN THE LIGHT INDUSTRIAL (L1) ZONE DISTRICT.
5. BY GRAPHICAL DEPICTION ONLY, THIS PARCEL LIES WITHIN FLOOD HAZARD ZONES: "AE" (FLOOD ALONG RIVERS AND AREAS) AND "A" (FLOOD AREAS) AS SHOWN ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP NEW LONDON COUNTY, CONNECTICUT PLAN 351, COMMUNITY: TOWN OF MONTVILLE MAP NUMBER: 0901102130 MAP EFFECTIVE DATE: 7/18/2011. FLOOD ZONE INFORMATION IS NOT GUARANTEED.
6. THE SUBJECT PROPERTY IS SHOWN ON THE MONTVILLE TAX ASSESSOR MAP 62 AS LOT 16 AND HAS AN ASSIGNED STREET ADDRESS OF 69 FITCH HILL ROAD.
7. BEARINGS AND COORDINATES NOTED HEREON ARE REFERENCED TO THE CONNECTICUT STATE PLANE COORDINATE SYSTEM (NAD 83) EPOCH 2011 (2010.0), ELEVATIONS DEPICTED HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND DISTANCES DERIVED FROM ELLIPSOIDAL SURVEY DATA. THE HORIZONTAL AND VERTICAL GEOD AS DETERMINED BY GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS UTILIZING THE SUPER GNSS REFERENCE NETWORK STATION HAVING THE FOLLOWING VALUES:  
LATITUDE = N41.30389275"  
LONGITUDE = W72.050613875"  
ELLIPSOID HEIGHT = -10.7997 METERS
8. THIS PLAN REPRESENTS THE LOCATION OF THE BOUNDS AND SITE CONDITIONS DETERMINED BY FIELD SURVEY ON MARCH 30, 2022. RECORD TITLE AND ADJOINER INFORMATION WAS OBTAINED FROM TAX ASSESSOR AND LAND EVIDENCE RECORDS ON MAY 3, 2022.
9. UNDERGROUND UTILITY, STRUCTURE AND FACILITY LOCATIONS DEPICTED AND NOTED HEREON ARE BASED ON RECORDS, FIELD SURVEY, RECORD MAPPING SUBMITTED BY THE RESPECTIVE UTILITY COMPANIES OR GOVERNMENTAL AGENCIES, FROM PAROLE TESTIMONY AND FROM OTHER SOURCES. THESE LOCATIONS MUST BE CONSIDERED AS APPROXIMATE IN NATURE. ADJOINER, OTHER RECORDS, FIELD SURVEY, RECORD MAPPING, AND RECORDS OF UTILITY COMPANIES OF ALL SUCH FEATURES MUST BE FIELD DETERMINED AND VERIFIED BY THE APPROPRIATE AUTHORITIES PRIOR TO CONSTRUCTION. CALL BEFORE YOU DIG 1-800-922-4455.
10. THE INLAND WETLANDS SHOWN HEREON WERE DELINEATED IN THE FIELD BY JOSEPH R. BERNUZZI, CERTIFIED SOIL SCIENTIST AND FIELD LOCATED BY JAMES BERNARDO LAND SURVEYING, LLC.

MAP REFERENCES:

1. PLAN OF PROPERTIES OF THE THAMES HOTEL CORPORATION AND JOHN S. DAWSON MONTVILLE & NORWICH CONNECTICUT SCALE: 1"=100' CHANDLER, PALMER & KING ADDENDUM: SEPTEMBER 1977 FROM NOVEMBER 1975 SHEET 2 OF 2 (BOOK: 5 PAGE: 37).
2. KORENIEWICZ SUBDIVISION "SITE DEVELOPMENT PLAN" PREPARED FOR KAREN CORMOSKI 17 LEFFINGWELL ROAD MONTVILLE, CONNECTICUT SCALE: 1"=30' APRIL, 2002 I.D. NO. 02-675 SHEET 1 OF 1 REVISED 4-19-02 BY BOUNDARIES LLC (DRAWING #1806).
3. SUBDIVISION PLAN MADE FOR HELEN COGGESHALL & WARREN COGGESHALL OWNERS & DEVELOPERS FITCH HILL & OLD FITCH HILL ROS MONTVILLE, CONN. SCALE: 1"=20" BY JAMES F. McNALLY LS MAR. 20, 1987 (BOOK-8 PAGE: 89).
4. SUBDIVISION PLAN PROPERTY OF HELEN COGGESHALL FITCH HILL ROAD & LEFFINGWELL ROAD MONTVILLE, CONNECTICUT DATE: FEBRUARY 16, 1980 SCALE: 1"=40' SHEET 1 OF 1 BY CHANDLER, PALMER & KING (DRAWING #1183).
5. GOLF HILL ESTATES OLD FITCH HILL ROAD, MONTVILLE, CT. SITE PLAN JAVEE DEVELOPMENT, L.C. DATE: APRIL 2005 SCALE: 1"=20" REVISED: 9/5/05 BY CIA ENGINEERS, INC. (FILE #2063).
6. FAIRWAY ESTATES OLD FITCH HILL ROAD, MONTVILLE, CT. SURVEY/LOT LINE RECONFIGURATION PLAN JAVEE DEVELOPMENT, L.C. DATE: JAN. 2003 SCALE: 1"=40" BY CIA ENGINEERS, INC.
7. IMPROVEMENT LOCATION AND TOPOGRAPHIC SURVEY "LOT LINE REVISION PLAN" PREPARED FOR MARTIN MCKINNEY 33 LEFFINGWELL ROAD MONTVILLE, CONNECTICUT SCALE: 1"=40' JULY 2007 JOB I.D. NO. 04-1055 BY BOUNDARIES, LLC (DRAWING #2322).

|   |                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A | FLOOD ZONE LINES<br>ADDED AND NOTE 5<br>REVISED | <p>NOTICE: THESE DOCUMENTS ARE PROTECTED UNDER A COPYRIGHT © 2022. THESE DOCUMENTS ARE THE PROPERTY OF THE SURVEYOR. NO REPRODUCTION OR DISTRIBUTION CONTAINED HEREON SHALL NOT BE DUPLICATED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE SURVEYOR. THESE DRAWINGS SHALL REMAIN THE PROPERTY OF THE SURVEYOR.</p> |
|---|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|           |             |      |
|-----------|-------------|------|
| LTR       | DESCRIPTION | DATE |
| REVISIONS |             |      |

## REVISIONS

## BOUNDARY & TOPOGRAPHIC SURVEY

PROPERTY OF  
**ANDREW PETROWSKI**

FOR PROPERTY LOCATED AT  
**69 FITCH HILL ROAD  
& LEFFINGWELL ROAD**

TOWN OF MONTVILLE - COUNTY OF NEW LONDON - CONNECTICUT

Sheet No.

S-02

SHEET 2 OF 2

 $1^{\circ} = 60'$ 

Date  
JULY 1, 2022

Project No.  
21101-1

### LEGEND

THE FOLLOWING SYMBOLS/ABBREVIATIONS  
MAY APPEAR ON THIS DRAWING

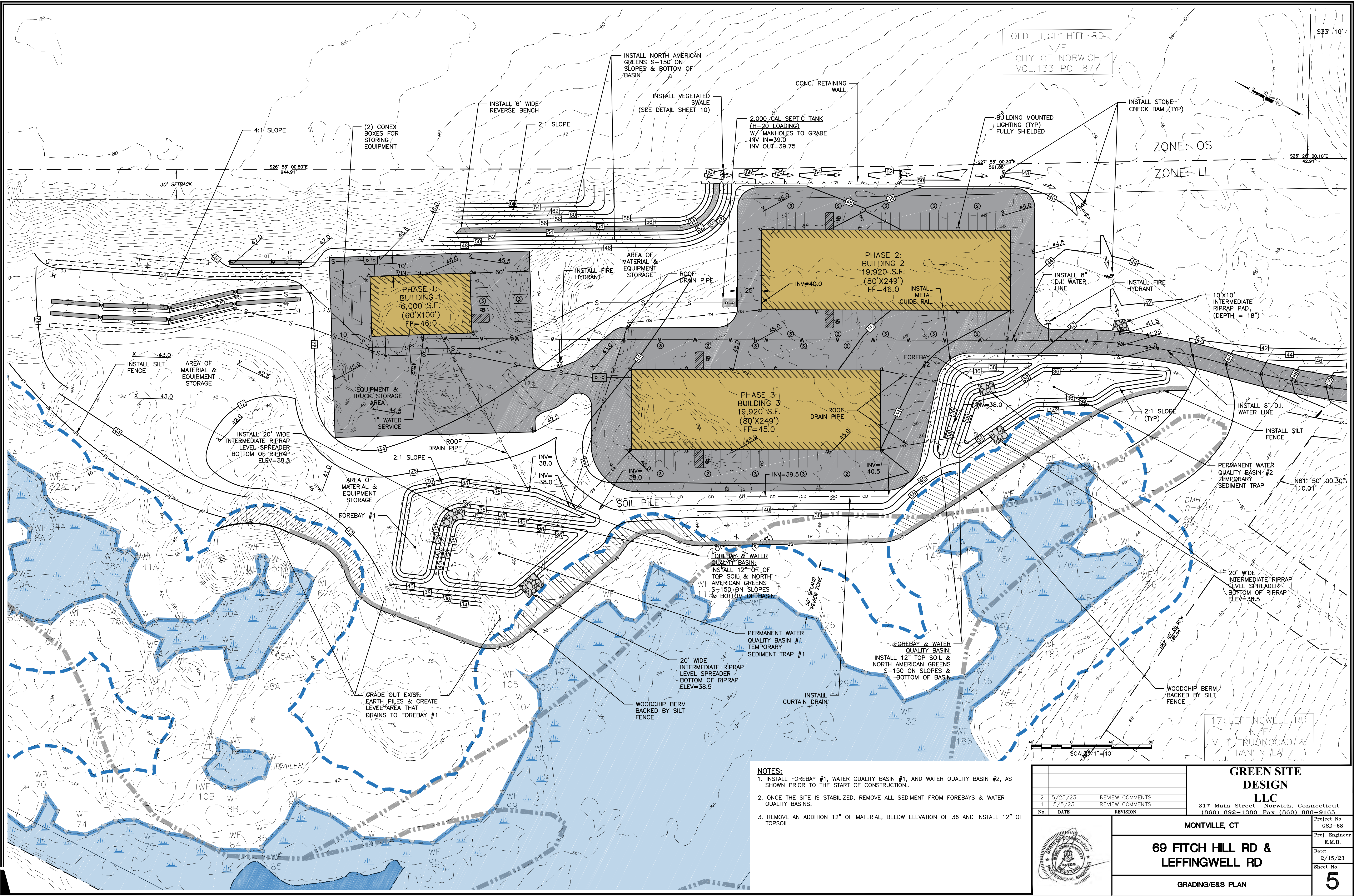
|       |                                 |     |                         |
|-------|---------------------------------|-----|-------------------------|
| AC    | ACRES                           | HTB | HIGH TIDE BUSH          |
| BB    | BASEMENT FLOOR                  | SP  | SPARTINA PATENS         |
| BIT   | BITUMINOUS                      | SA  | SPARTINA ALTERNAFLORA   |
| BCLC  | BITUMINOUS CONCRETE LIP CURBING | TBR | TO BE REMOVED           |
| CONC  | CONCRETE                        | TP  | TYPICAL                 |
| DIA   | DIAMETER                        | P-5 | SOIL PERC TEST LOCATION |
| DB    | DISTRIBUTION BOX                | THB | SOIL DEEP TEST LOCATION |
| EOP   | EDGE OF PAVEMENT                | W   | WELL                    |
| ELEV  | ELEVATION                       |     | HYDRANT                 |
| FF    | FINISHED FIRST FLOOR            |     | TREE                    |
| LF    | LINEAR FOOT                     |     | BUILDING SETBACK LINE   |
| (MIN) | MINIMUM                         |     | CLEARING LIMIT LINE     |
| M/L   | MORE OR LESS                    |     | EXISTING TREELINE       |
| N/F   | NOW OR FORMERLY                 |     | EXISTING CONTOUR        |
| PVC   | POLY VINYL CHLORIDE             |     | NEW CONTOUR             |
| SCH40 | SCHEDULE 40                     |     | SEDIMENT FENCE          |
| 5.4x  | SPOT ELEVATION                  |     | STORM DRAIN PIPE        |
| SF    | SQUARE FEET                     |     | STONE WALL              |
| TR    | TO REMAIN                       |     | SANITARY SEWER          |
|       |                                 |     | WATER                   |

MATCH TO SHEET 1

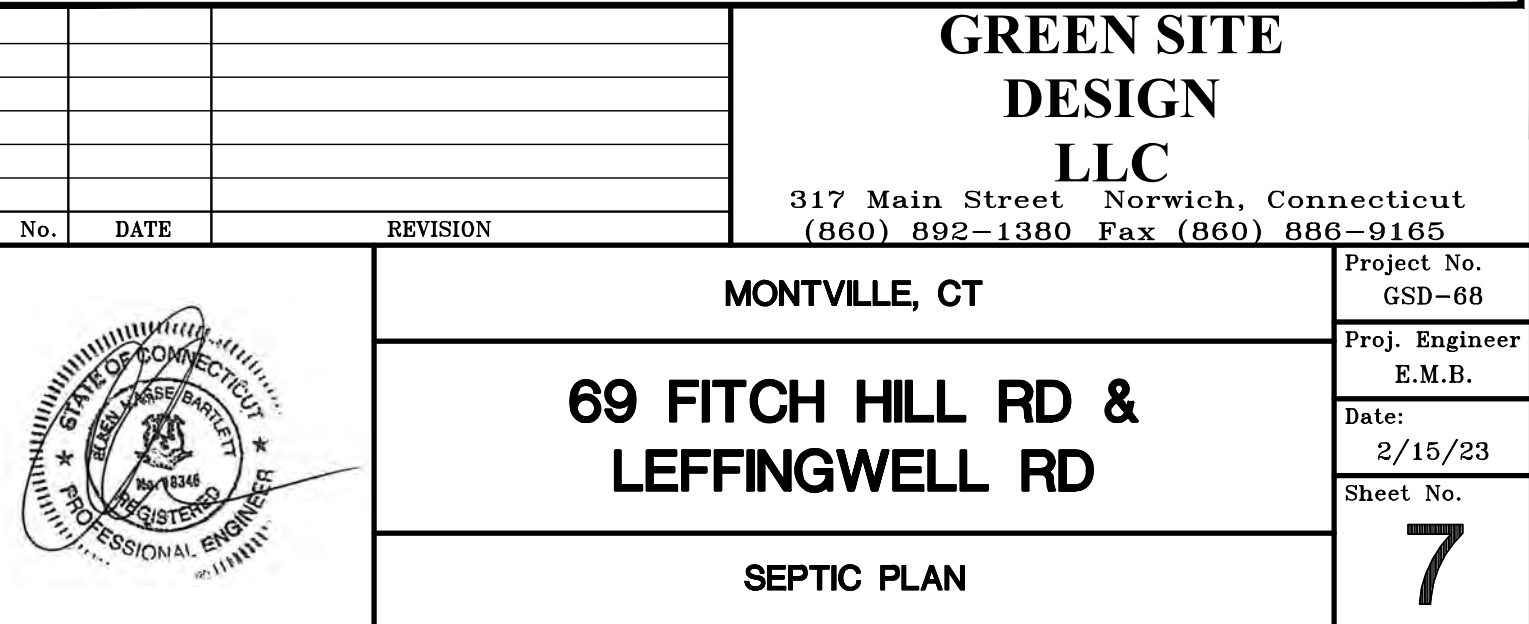
GRAPHIC SCALE

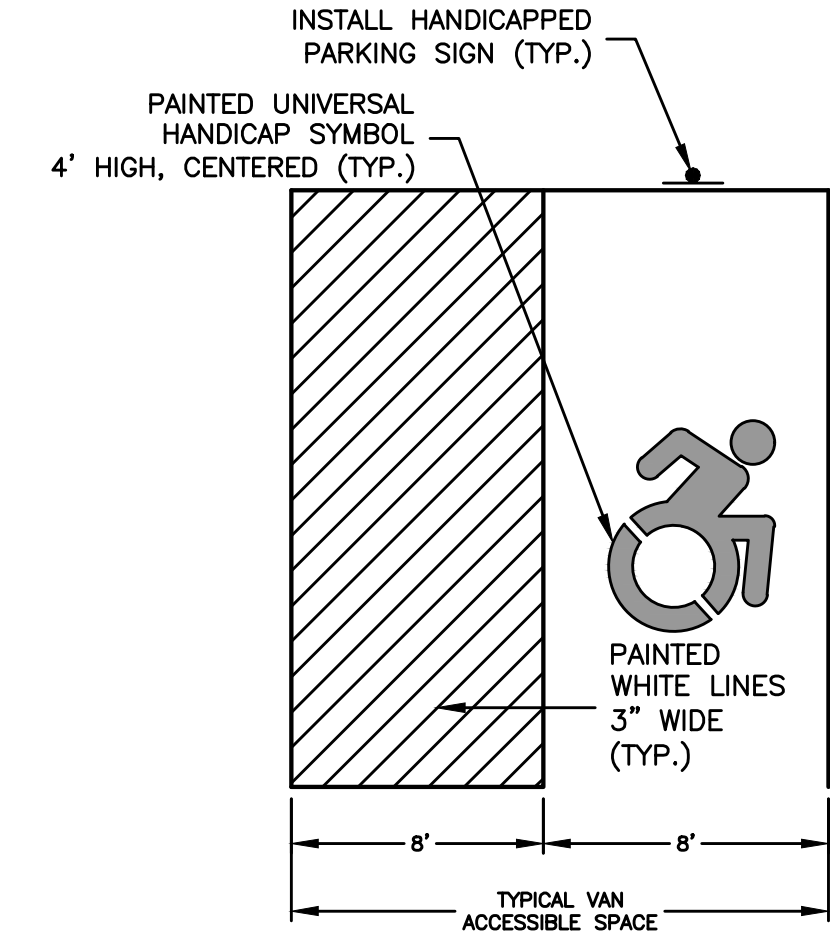
( IN FEET )  
1 inch = 60 ft.





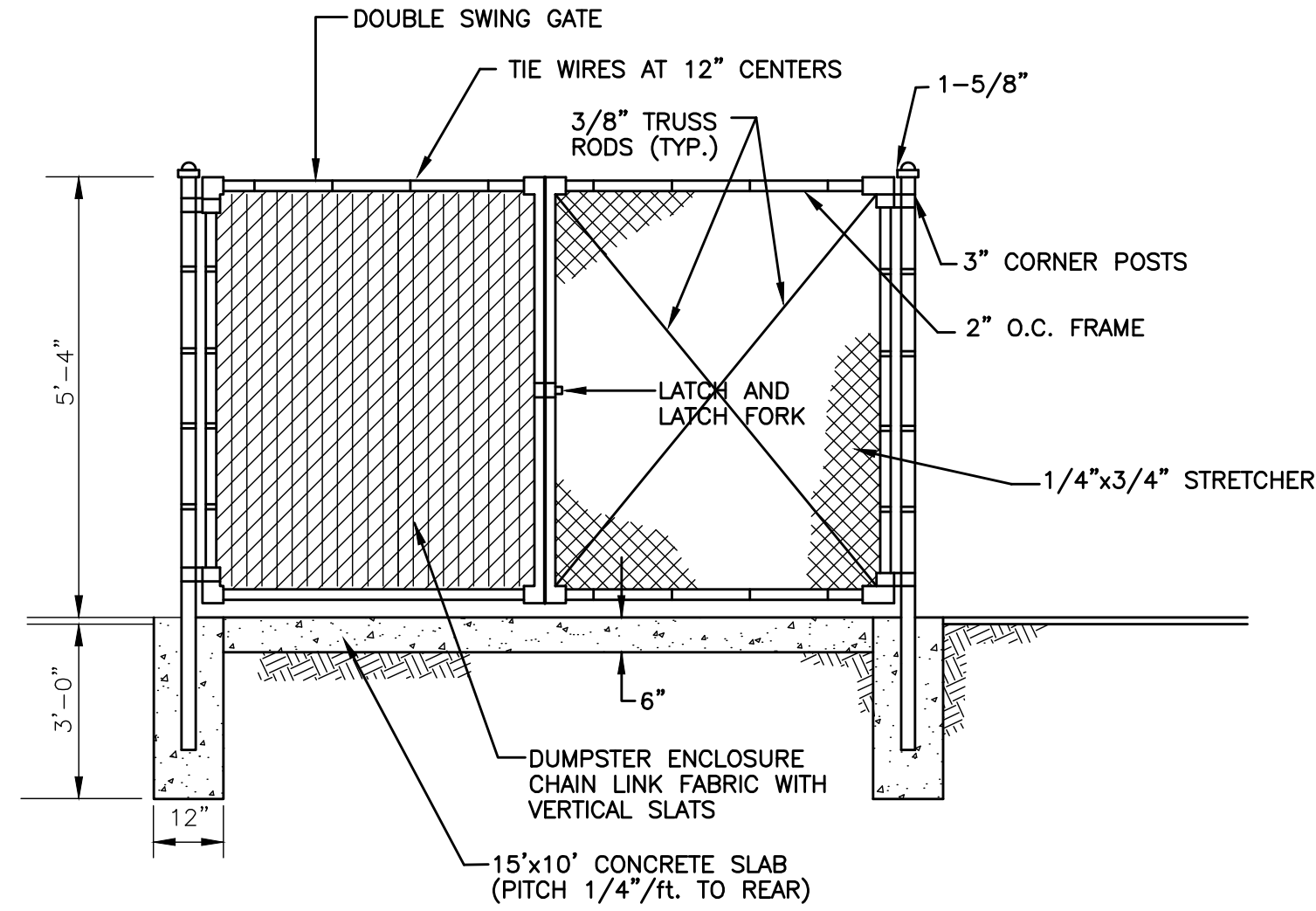




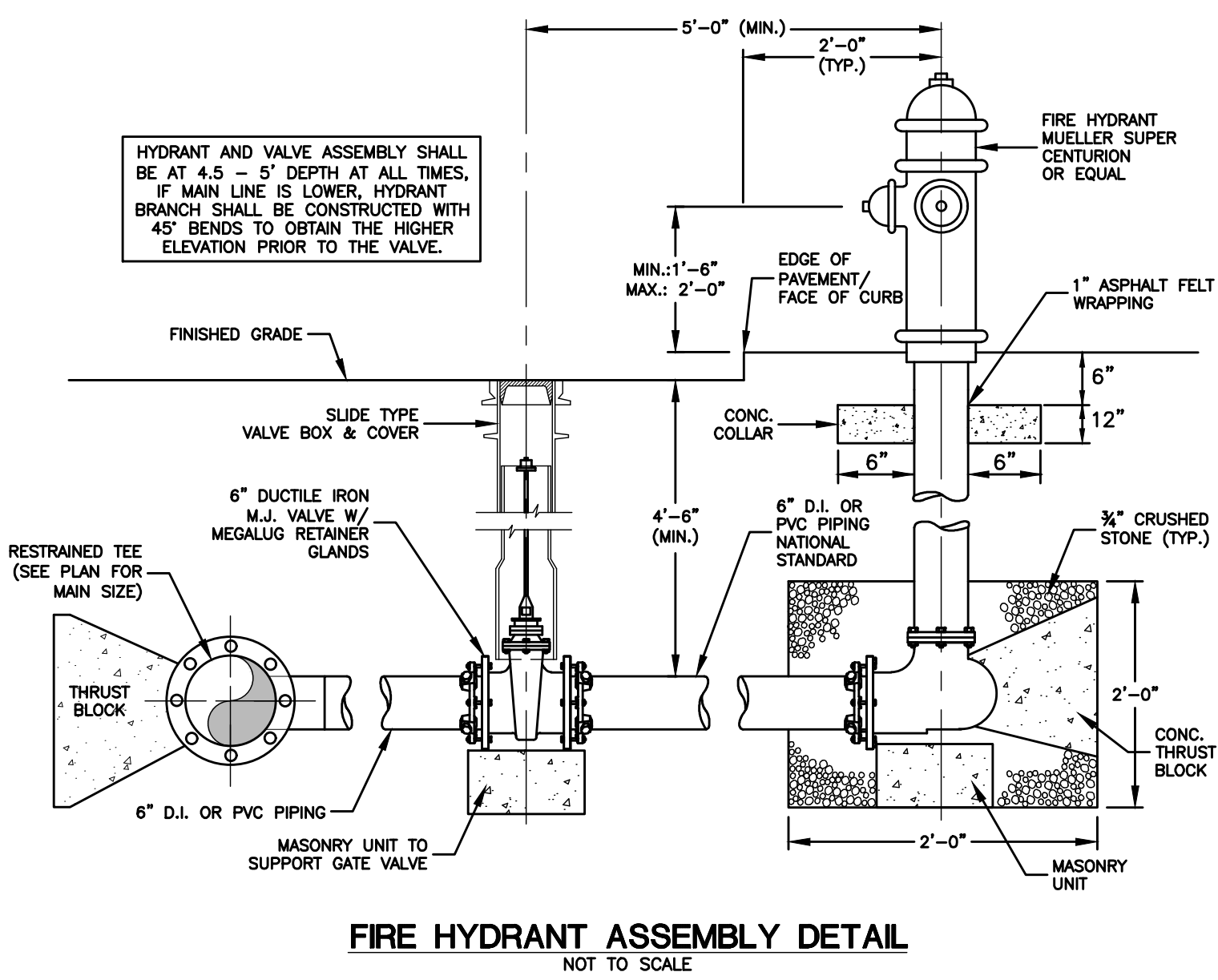


NOTES:  
1. ALL ADA ACCESSIBLE SIGNING, DIMENSIONS AND SPACE MARKINGS SHALL BE IN ACCORDANCE WITH CGS 14-253az(h) AND THE 2003 PORTION OF THE STATE BUILDING CODE

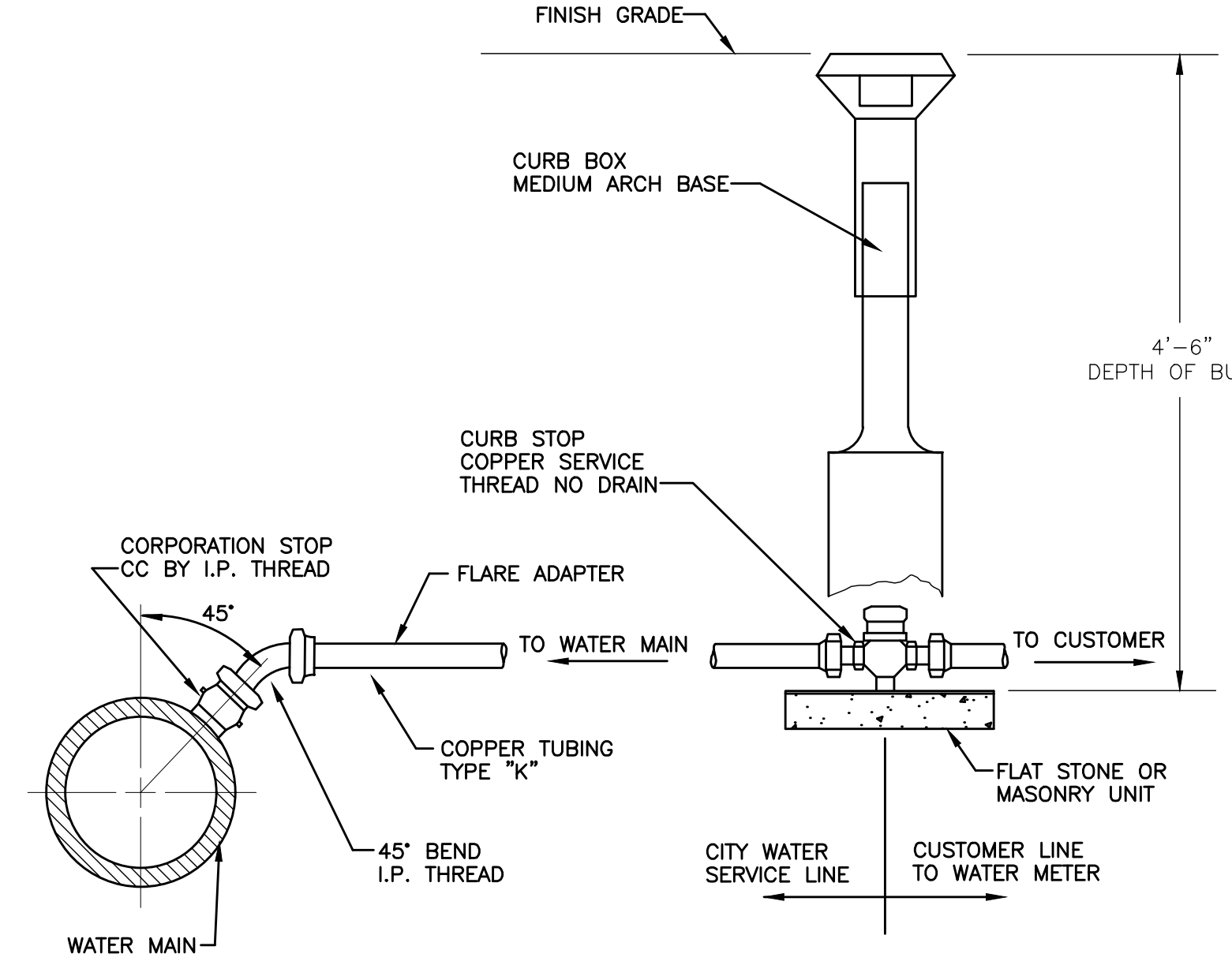
**TYPICAL HANDICAP VAN PARKING SPACE**  
NOT TO SCALE



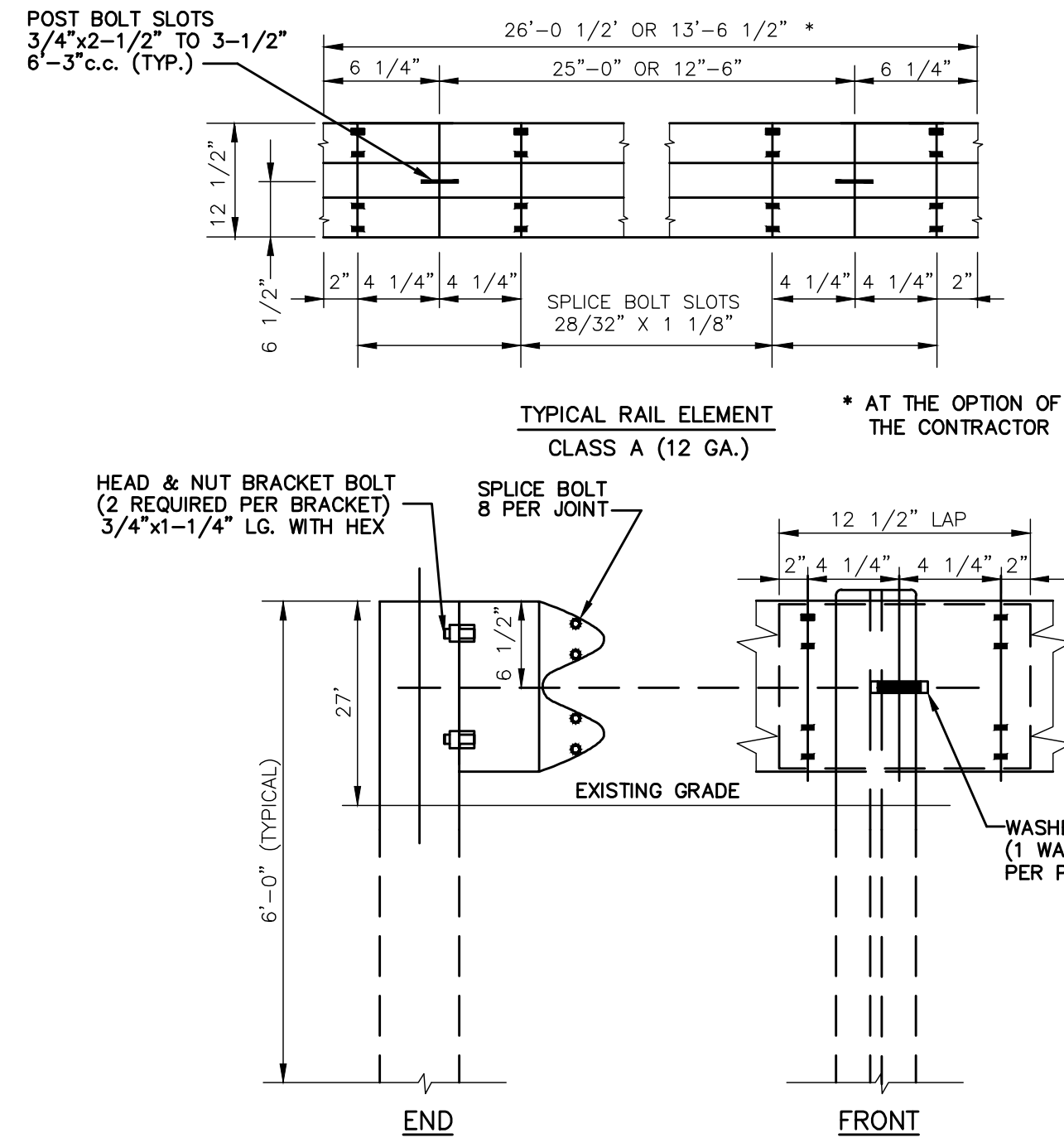
**CHAIN LINK FENCE/DUMPSTER ENCLOSURE**  
NOT TO SCALE



**FIRE HYDRANT ASSEMBLY DETAIL**  
NOT TO SCALE

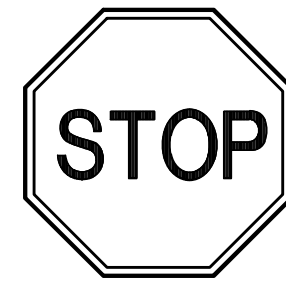


**WATER SERVICE CONNECTION DETAIL**  
NOT TO SCALE



INSTALLATION TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF CT. D.O.T.

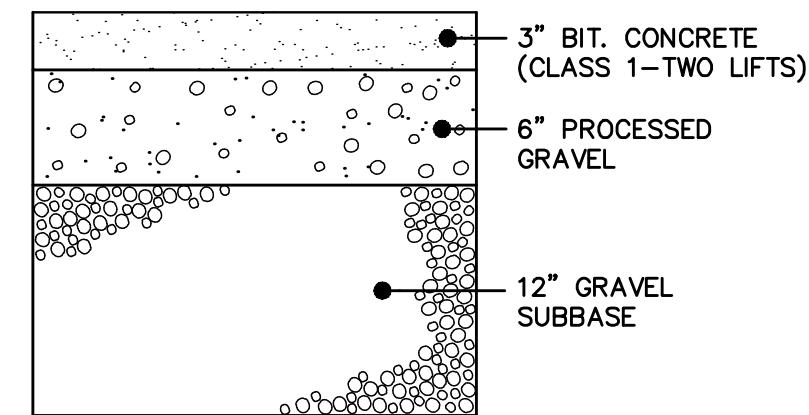
**METAL BEAM RAIL**  
NOT TO SCALE



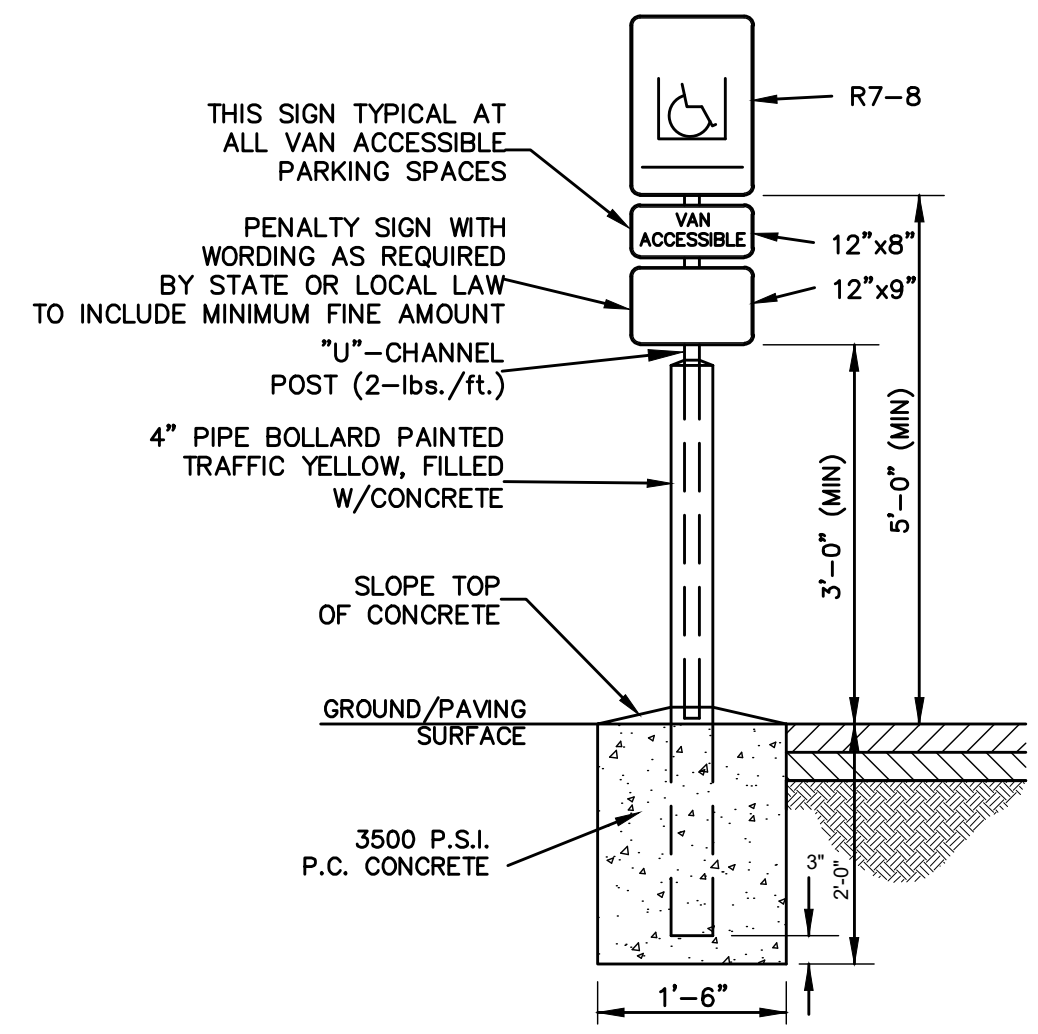
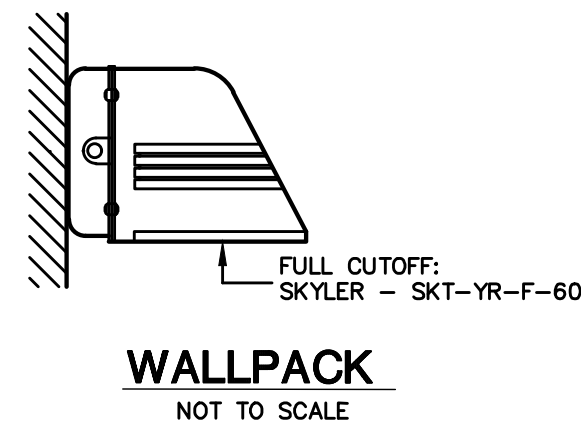
NOTE:  
SIGNS TO BE INSTALLED IN ACCORDANCE WITH STATE OF CONNECTICUT D.O.T. STANDARDS

SECURE ALL SIGNS TO 1/2" DIA. GALVANIZED STEEL POST WITH (2) 1/4" DIA. GALVANIZED BOLTS (1 TOP, 1 BOTTOM) (TYP)

**TRAFFIC SIGNAGE**  
NOT TO SCALE



**PAVING SECTION**  
NOT TO SCALE



**VAN ACCESSIBLE PARKING SIGN**  
NOT TO SCALE

|  |  |  |  |                                                                           |   |
|--|--|--|--|---------------------------------------------------------------------------|---|
|  |  |  |  | <b>GREEN SITE DESIGN LLC</b>                                              |   |
|  |  |  |  | 317 Main Street Norwich, Connecticut<br>(860) 892-1380 Fax (860) 886-9165 |   |
|  |  |  |  | MONTVILLE, CT                                                             |   |
|  |  |  |  | <b>69 FITCH HILL RD &amp; LEFFINGWELL RD</b>                              |   |
|  |  |  |  | SITE DETAILS                                                              |   |
|  |  |  |  | Project No. GSD-68                                                        | 8 |
|  |  |  |  | Proj. Engineer E.M.B.                                                     |   |
|  |  |  |  | Date: 2/15/23                                                             |   |
|  |  |  |  | Sheet No.                                                                 |   |

PERC TEST DATA

PERC #101 4/19/2023

PRE-SOAK, 10:54:00-10:54:55 AM

BOTTOM OF HOLE AT 24"

INTERVAL: 12-24"

TEST 1

| TIME     | DEPTH (IN) | CHANGE (IN) |
|----------|------------|-------------|
| 12:59:00 | 12"        | -0.0        |
| 12:59:54 | 24"        | -12.0       |

END OF TEST 1

TEST 2

| TIME     | DEPTH (IN) | CHANGE (IN) |
|----------|------------|-------------|
| 13:04:00 | 12"        | -0.0        |
| 13:04:54 | 24"        | -12.0       |

END OF TEST 2

TEST 3

| TIME     | DEPTH (IN) | CHANGE (IN) |
|----------|------------|-------------|
| 13:06:00 | 12"        | -0.0        |
| 13:06:58 | 24"        | -12.0       |

END OF TEST 3

TEST 4

| TIME     | DEPTH (IN) | CHANGE (IN) |
|----------|------------|-------------|
| 13:10:00 | 12"        | -0.0        |
| 13:10:55 | 24"        | -12.0       |

END OF TEST 4

TEST 5

| TIME     | DEPTH (IN) | CHANGE (IN) |
|----------|------------|-------------|
| 13:13:00 | 12"        | -0.0        |
| 13:13:58 | 24"        | -12.0       |

END OF TEST 5

AVERAGE OF TESTS 1-5 =

$$\frac{(0.90+0.90+0.97+0.92+0.97)\text{MIN}}{5}$$

= 0.93 MPI

IN=12" TO 24" = 12"

$$0.93 \text{ MIN}/12" = 0.08 \text{ MPI}$$

PERC #102 4/19/2023

PRE-SOAK, 9:33-9:36 AM

BOTTOM OF HOLE AT 26"

INTERVAL: 14-26"

TIME

| DEPTH (IN)    | CHANGE (IN) |
|---------------|-------------|
| 9:43:00 10.5" | -1.0        |
| 9:43:30 11.5" | -1.0        |
| 9:44:00 12.5" | -1.0        |
| 9:44:30 13"   | -0.5        |
| 9:45:00 13.5" | -0.5        |
| 9:45:30 14"   | -0.5        |

\*CAVED IN AT 19"

END OF TEST 1

MIN=9:43:00-9:45:30 = 2.5 MIN

IN=12" TO 19" = 7"

$$2.5 \text{ MIN}/7" = 0.36 \text{ MPI}$$

9:50:00 12"

-0.0

9:50:30 14"

-2.0

9:51:00 16"

-2.0

9:51:30 17"

-1.0

9:52:00 18"

-1.0

9:52:30 19"

-1.0

\*CAVED IN AT 19"

END OF TEST 2

MIN=9:50:00-9:52:30 = 2.5 MIN

IN=12" TO 19" = 7"

$$2.5 \text{ MIN}/7" = 0.36 \text{ MPI}$$

NEW INTERVAL DUE TO CAVE IN

BOTTOM OF HOLE AT 29"

INTERVAL: 17-29"

9:55:00 17"

-0.0

9:55:30 19"

-2.0

9:56:00 20"

-1.0

9:56:30 21"

-1.0

9:57:00 22"

-1.0

9:57:30 23"

-1.0

\*CAVED IN AT 23"

END OF TEST 3

MIN=9:55:00 TO 9:57:30 = 2.5 MIN

IN=17" TO 23" = 6"

$$2.5 \text{ MIN}/6" = 0.42 \text{ MPI}$$

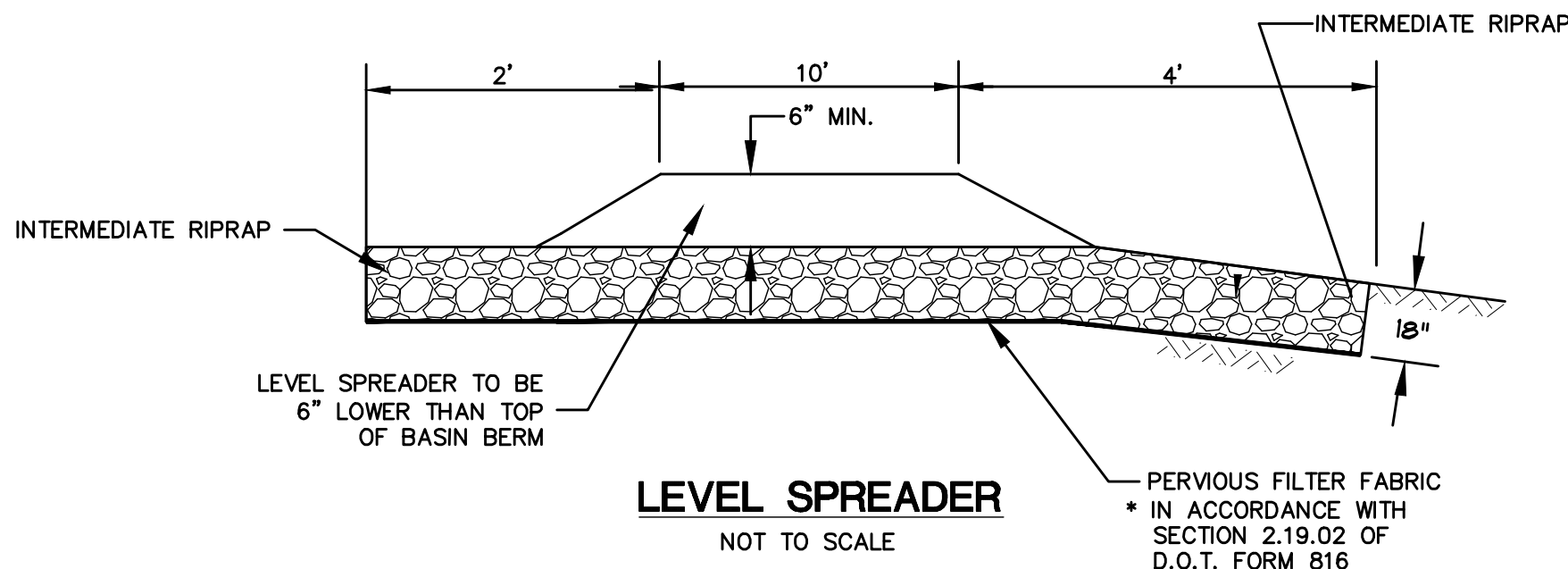
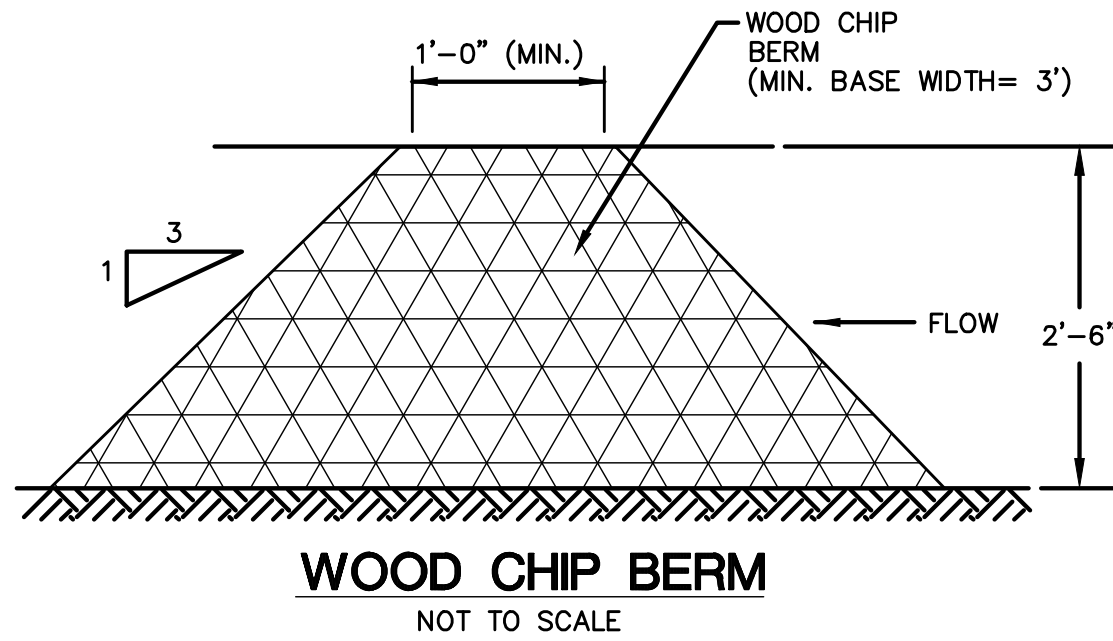
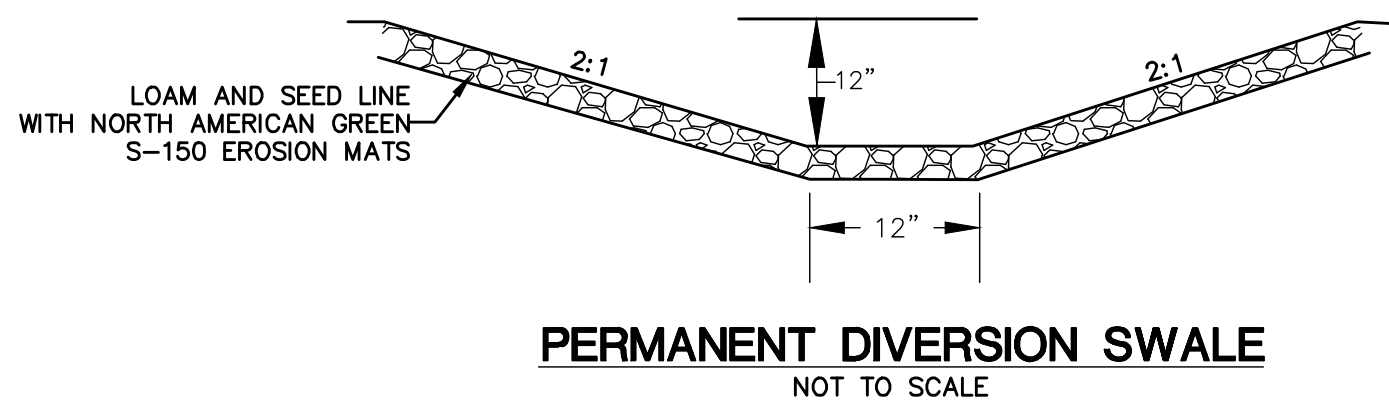
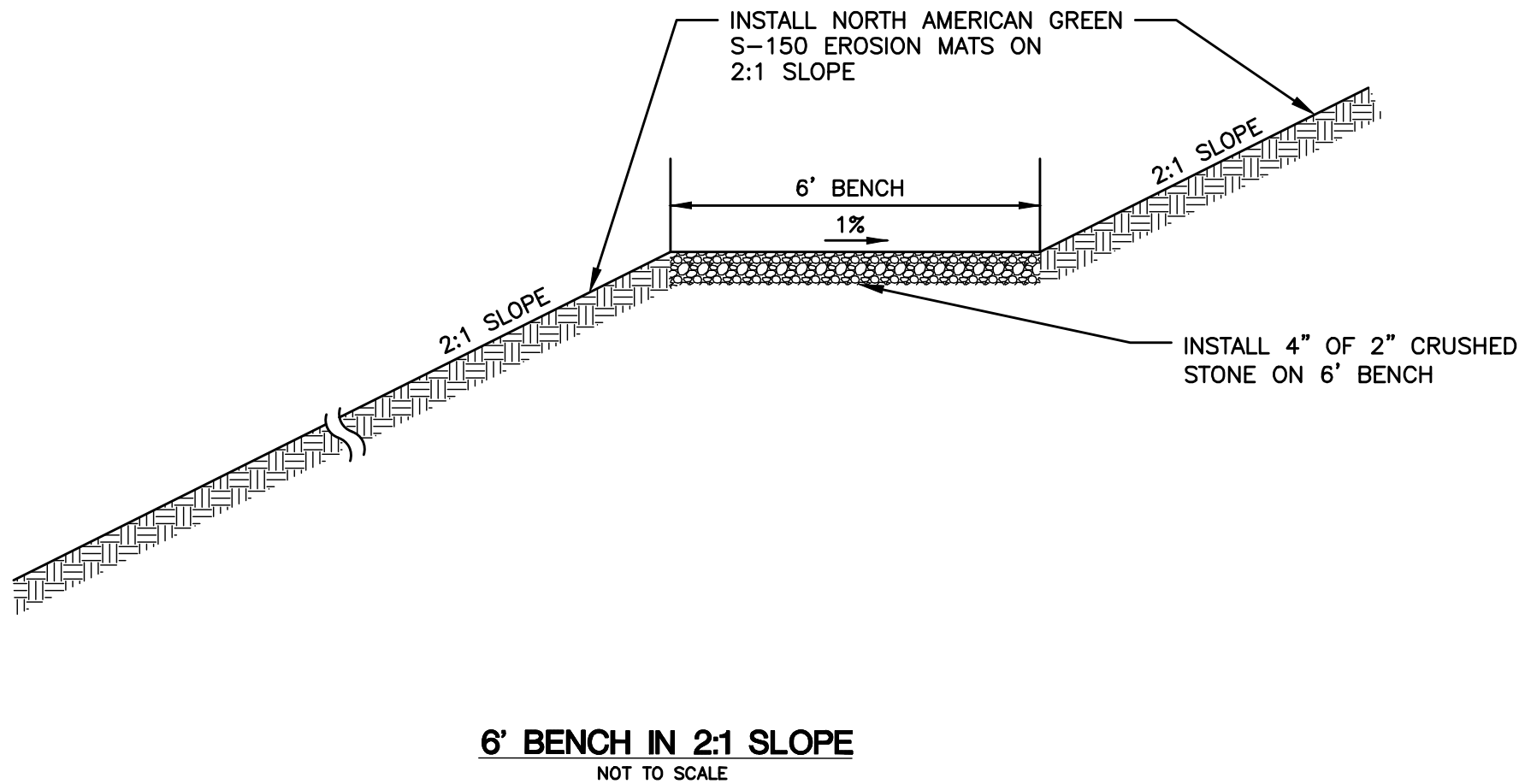
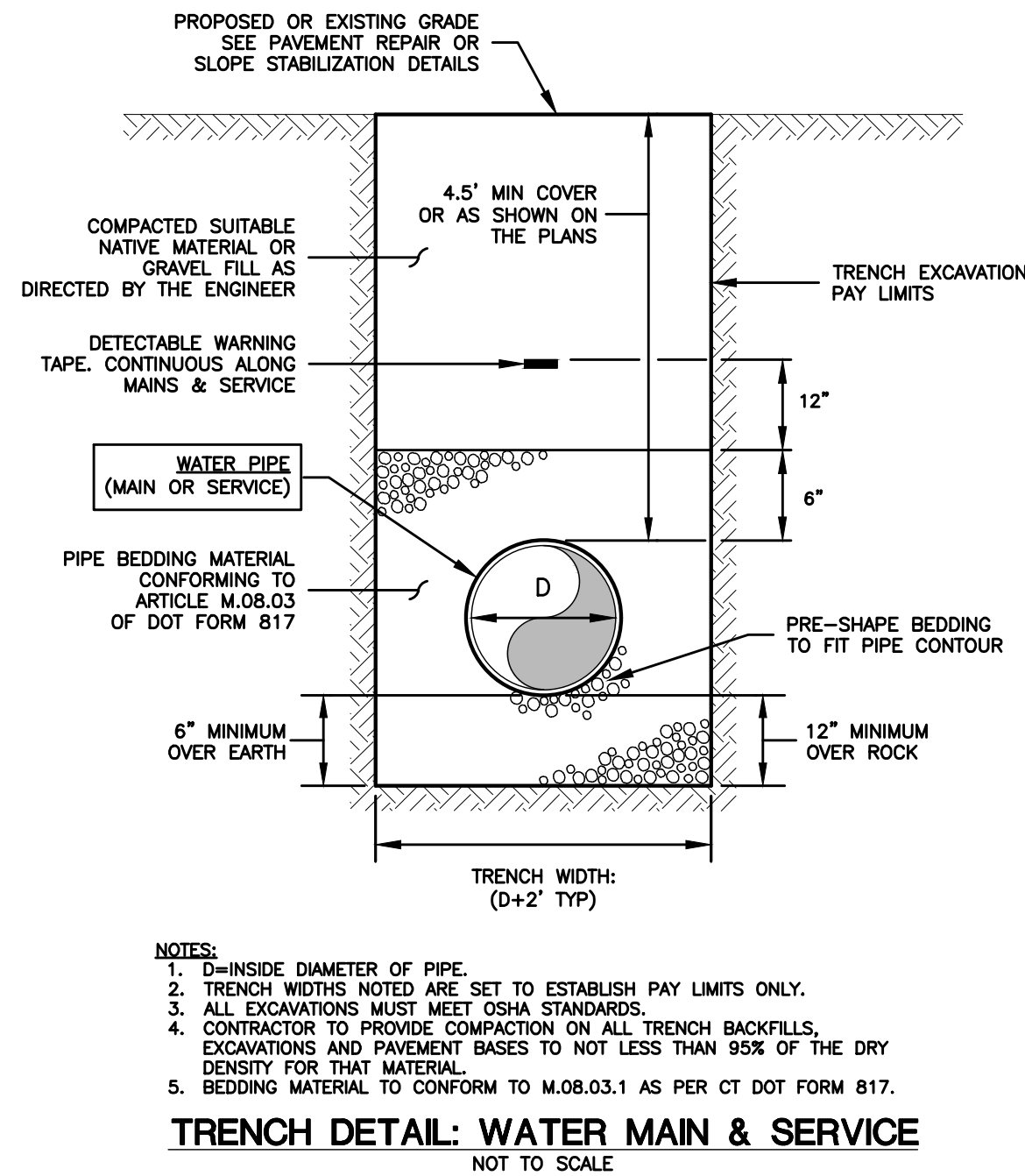
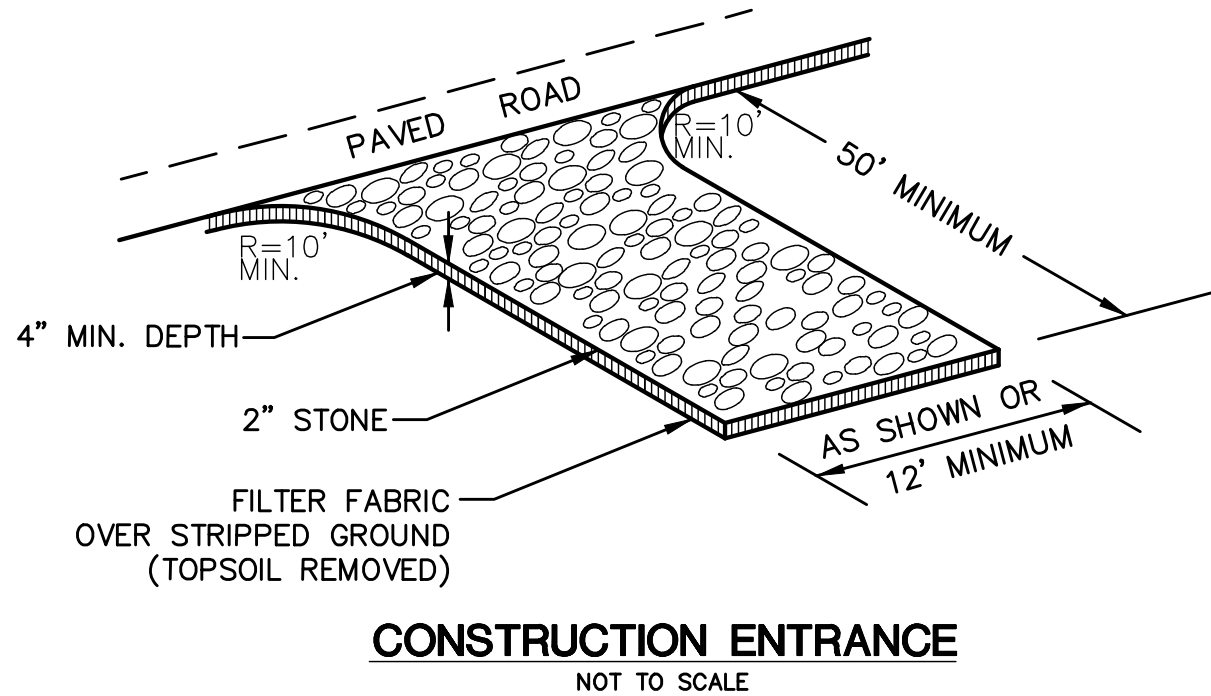
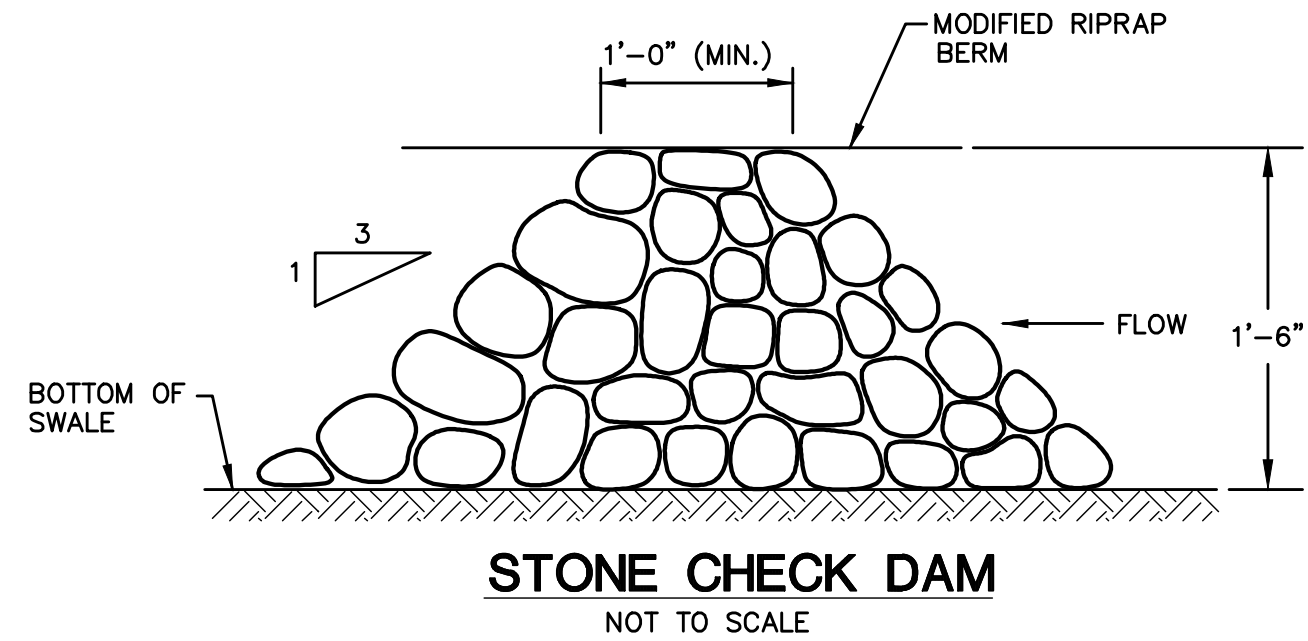
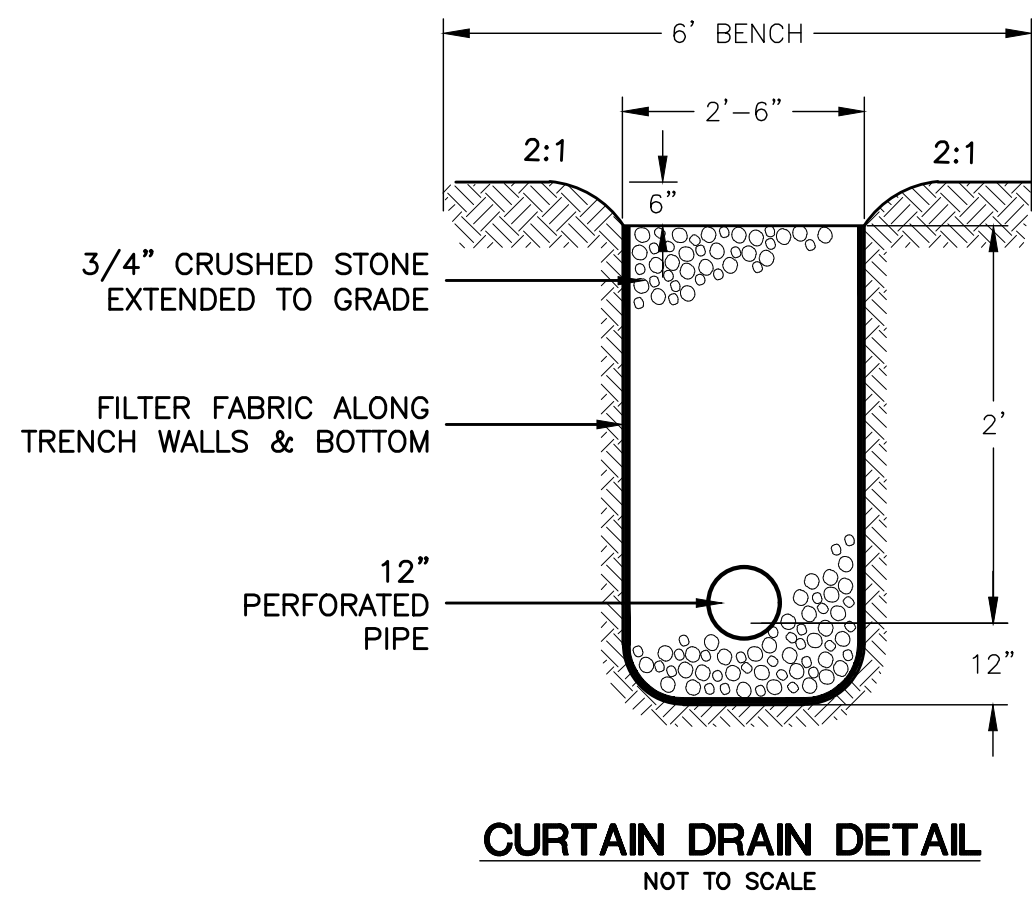
AVERAGE OF TESTS 1-3 =

$$\frac{(0.36+0.36+0.36)\text{MIN}}{3}$$

= 0.38 MPI

TEST HOLE DATA

|                                                                                                           |  |                                                                                                                                                              |  |
|-----------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| TEST HOLES RECORDED BY CHRISTOPHER MADDEN,<br>MARCH 03 2023                                               |  | <b>TH #12</b><br>0-19" FILL<br>19-21" BLACK SILTY LOAM,<br>ORIGINAL TOPSOIL<br>21-28" BROWN FINE SANDY<br>LOAM<br>28-43" GRAVELLY SANDY LOAM<br>43-100" SAND |  |
| <b>TH #14</b><br>0-14" BROWN LOAMY SAND TOPSOIL<br>14-96" LIGHT BROWN FINE SAND                           |  | NO BEDROCK<br>WATER 43"<br>MOTTLING 28"<br>NO ROOTS<br>RESTRICTIVE 28"                                                                                       |  |
| <b>TH #15</b><br>0-16" BROWN LOAMY SAND TOPSOIL<br>16-98" STRATIFIED GREY BROWN SAND<br>AND GRAVEL        |  | <b>TH #23</b><br>0-10" FILL<br>10-22" WETLAND TOPSOIL<br>22-45" GREY SILT LAYER<br>45-87" GREY AND BROWN<br>MEDIUM SAND                                      |  |
| NO BEDROCK<br>NO WATER<br>NO MOTTLING<br>NO ROOTS<br>NO RESTRICTIVE                                       |  | NO BEDROCK<br>WATER 45"<br>NO MOTTLING<br>NO ROOTS<br>RESTRICTIVE 45"                                                                                        |  |
| <b>TH #16</b><br>0-12" BROWN LOAM SAND TOPSOIL<br>12-96" LIGHT BROWN FINE SAND                            |  | <b>TH #24</b><br>0-3" TOPSOIL<br>3-10" FINE SAND<br>10-58" GREY FINE SAND<br>W/MOTTLES<br>42-74" BANDS OF GRAVELLY<br>SAND                                   |  |
| NO BEDROCK<br>WATER 44"<br>MOTTLING 40"<br>NO ROOTS<br>RESTRICTIVE 40"                                    |  | NO BEDROCK<br>WATER 42"<br>MOTTLING 10"<br>NO ROOTS<br>RESTRICTIVE 10"                                                                                       |  |
| <b>TH #17</b><br>0-96" STRATIFIED SAND AND GRAVEL,<br>NO TOPSOIL                                          |  | <b>TH #18</b><br>NO TOPSOIL<br>0-70" GREY AND BROWN CLAY<br>70-89" COARSE SAND AND GRAVEL                                                                    |  |
| NO BEDROCK<br>WATER 48"<br>MOTTLING 29"<br>NO ROOTS<br>RESTRICTIVE 29"                                    |  | NO BEDROCK<br>WATER 45"<br>MOTTLING 11"<br>NO ROOTS<br>RESTRICTIVE 11"                                                                                       |  |
| <b>TH #19</b><br>0-10" BROWN LOAMY SAND TOPSOIL<br>10-84" STRATIFIED BROWN AND LIGHT<br>BROWN SAND W/SILT |  | <b>TH #20</b><br>0-10" BROWN LOAMY SAND TOPSOIL<br>10-84" STRATIFIED BROWN AND LIGHT<br>BROWN SAND W/SILT                                                    |  |
| NO BEDROCK<br>NO WATER<br>NO MOTTLING<br>NO ROOTS<br>NO RESTRICTIVE                                       |  | NO BEDROCK<br>WATER 45"<br>MOTTLING 11"<br>NO ROOTS<br>RESTRICTIVE 11"                                                                                       |  |



## POLLUTION PREVENTION PLAN

- POLLUTION PREVENTION TEAM**  
THE OWNERS WILL BE RESPONSIBLE FOR CARRYING OUT THE PROVISIONS OF THIS PLAN.

PARKING LOTS, DRIVEWAYS AND OTHER IMPERVIOUS SURFACES SHALL BE SWEEPED CLEAN OF SAND AND LITTER AND ANY OTHER POLLUTANTS AT LEAST TWICE A YEAR.

- BETWEEN NOVEMBER 15 AND DECEMBER 15 (AFTER LEAF FALL)
- DURING APRIL (AFTER SNOW MELT) NO WASHING VEHICLES OR EQUIPMENT IN PARKING AREAS.

- MAINTENANCE AND INSPECTION**
  - MONTHLY INSPECTION OF STORM WATER STRUCTURES AND OUTFALLS.
  - CLEAN SEDIMENT AND DEBRIS FROM STRUCTURES AND OUTFALLS ONCE A YEAR DURING APRIL.
  - SUBMIT MAINTENANCE & INSPECTION REPORT TO THE PLANNING DEPARTMENT AND THE DIRECTOR OF PUBLIC WORKS

- CLEAN SEDIMENT AND DEBRIS FROM BASIN ONCE A YEAR, DURING APRIL

- SPILL OR ACCIDENTAL DISCHARGE**  
COMPLY WITH STATE AND FEDERAL REGULATIONS TO CONTAIN AND CLEAN UP ANY SPILL OR DISCHARGE AND DISPOSE OF MATERIALS AT AN APPROVED FACILITY.

CONTACT CONNECTICUT DEEP OIL AND CHEMICAL SPILL RESPONSE DIVISION (860) 424-3338 AND THE MONTVILLE MAYOR.

IN THE EVENT A SPILL OCCURS THE FOLLOWING STEPS SHOULD BE PERFORMED AS SOON AS POSSIBLE:

- STOP THE SOURCE OF THE SPILL
- CONTAIN THE SPILL
- COVER SPILL WITH ABSORBENT MATERIAL SUCH AS KITTY LITER, SAWDUST OR OIL ABSORBENT PADS. DO NOT USE STRAW.
- DISPOSE OF ABSORBER IN ACCORDANCE WITH LOCAL AND STATE REGULATIONS.

- BEST MANAGEMENT PRACTICES FOR FUTURE UPKEEP OF THE SITE WILL INCLUDE NON-CHEMICAL LAWN CARE & MINIMAL USE OF FERTILIZERS, DE-ICING OR WINTER OPERATIONS WITHOUT THE USE OF CALCIUM, AND NO EXTERIOR WASHING OF VEHICLES OR DISCHARGING OF INTERIOR WASH WATER.

## OPERATION AND MAINTENANCE OF DRAINAGE SYSTEM

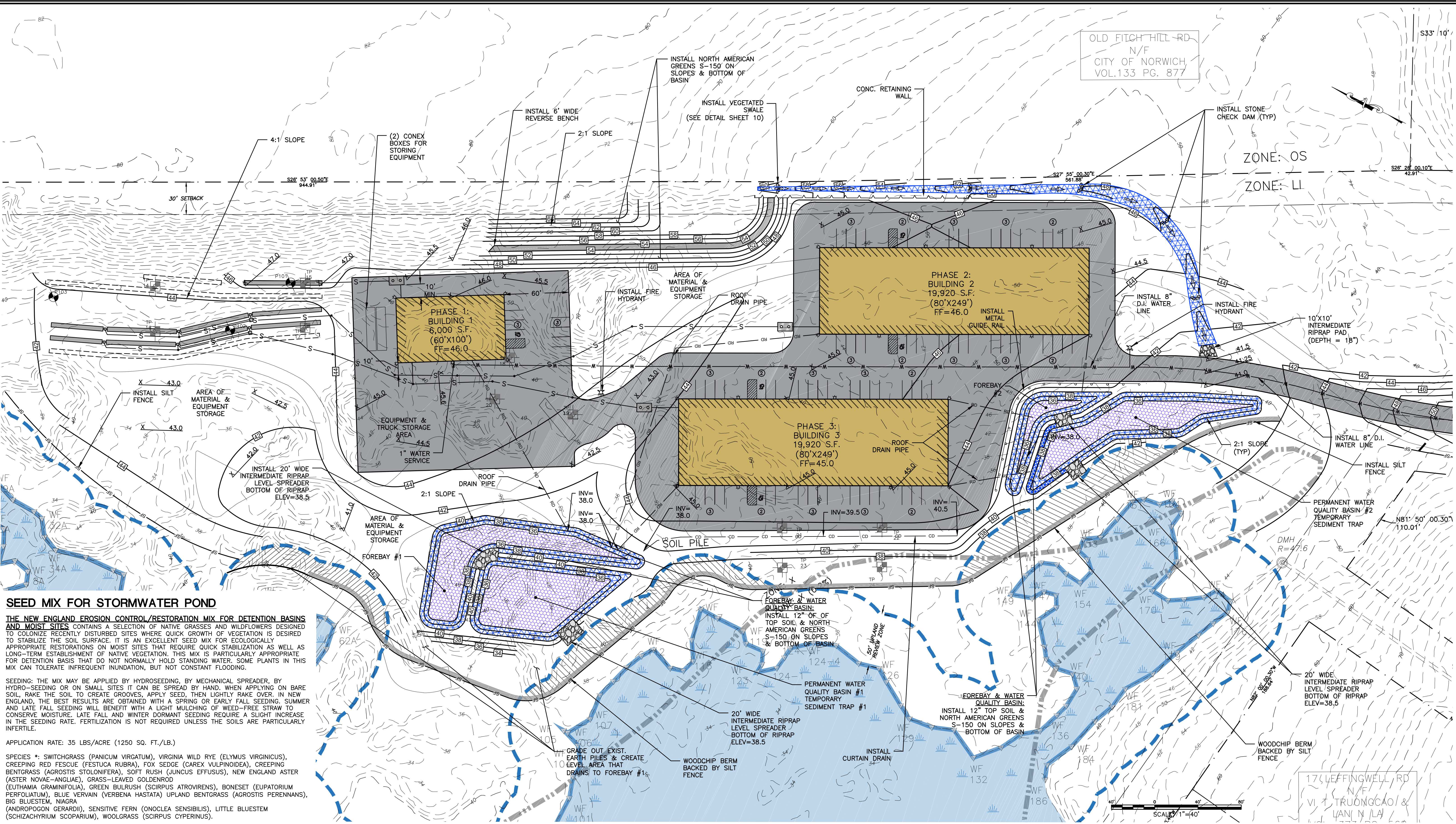
- THE PROPERTY OWNER IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE DRAINAGE SYSTEM.
- ALL STORMWATER BASINS AND RIPRAP LEVEL SPREADERS SHALL BE CLEANED OUT TWICE A YEAR, IN THE FALL AFTER THE LEAVES HAVE FALLEN AND IN THE SPRING AND ALL SEDIMENTS ARE TO BE REMOVED.
- THE STORMWATER BASINS SHALL BE MOWED TWICE A YEAR.

## EROSION CONTROL & SEDIMENTATION NARRATIVE

- PRIOR TO THE INSTALLATION OF ANY EROSION AND SEDIMENT CONTROL MEASURES, THE OWNER AND CONTRACTOR SHALL MEET WITH THE TOWN OF MONTVILLE ZONING ENFORCEMENT OFFICER
- STAKE LIMITS OF CLEARANCE
- THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON SHEETS 5 & 6 PRIOR TO SITE DISTURBANCE. ADDITIONAL EROSION & SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IF DETERMINED TO BE NECESSARY BY THE ZONING ENFORCEMENT OFFICER.
- INSTALL CONSTRUCTION ENTRANCE PER DETAIL
- THE CONTRACTOR SHALL CONTACT THE ZONING ENFORCEMENT OFFICER FOR INSPECTION OF THE SEDIMENT AND EROSION CONTROL MEASURES. PRIOR TO SITE DISTURBANCE CONSTRUCTION SHALL NOT BEGIN UNTIL SUCH TIME AS THE ZONING ENFORCEMENT OFFICER HAS REVIEWED AND APPROVED THE INSTALLATION OF THE SEDIMENTATION AND EROSION CONTROL MEASURES.
- CONTRACTOR TO INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES, SEDIMENTATION BASINS & SWALES AT LEAST WEEKLY AND AFTER EVERY STORM EVENT AND REPAIR AND MAINTAIN AS NECESSARY.
- CLEARING & GRUBBING OF THE AREA TO BE GRADED. TOPSOIL TO BE REMOVED & STOCKPILED IN AN AREA OF BUILDING & SURROUNDED WITH SILT FENCE.
- CONSTRUCT WATER QUALITY BASINS TO FUNCTION AS TEMPORARY SEDIMENT TRAPS PRIOR TO ROUGH GRADING OF THE SITE.
- INSTALL DIVERSION SWALES AS SHOWN ON SHEET 5 AND DETAIL ON THIS SHEET.
- ROUGH GRADE SITE, EXCAVATE FOR BUILDING FOOTINGS, INSTALL SEPTIC & UTILITIES.
- BUILDING CONSTRUCTION TO PROCEED.
- INSTALL SEPTIC SYSTEM & UTILITIES.
- TOPSOIL SHALL BE RE-APPLIED TO PROVIDE A MINIMUM DEPTH OF FOUR INCHES.
- ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL VEGETATION IS RE-ESTABLISHED.
- ONCE THE SITE IS STABILIZED, REMOVE ALL SEDIMENT FROM FOREBAYS & WATER QUALITY BASIN
- REMOVE AN ADDITIONAL 12" OF MATERIAL BELOW ELEVATION 36 AND INSTALL 12" OF TOP SOIL.
- SEEDING SHOULD TAKE PLACE BETWEEN APRIL 1 AND JUNE 1 OR AUGUST 15 AND OCTOBER 1.
- THE FOLLOWING SEEDING MIXTURES SHALL BE PROVIDED ON ALL DISTURBED AREAS.

|                     |            |
|---------------------|------------|
| KENTUCKY BLUE GRASS | 20 LB's/AC |
| CREeping RED FESCUE | 20 LB's/AC |
| PERENNIAL RYEGRASS  | 5 LB's/AC  |
- UNFORESEEN PROBLEMS WHICH ARE ENCOUNTERED IN THE FIELD SHALL BE SOLVED ACCORDING TO CONNECTICUT GUIDELINES FOR SOIL AND SEDIMENT CONTROL.

|  |  |                                                                           |  |
|--|--|---------------------------------------------------------------------------|--|
|  |  | <b>GREEN SITE<br/>DESIGN<br/>LLC</b>                                      |  |
|  |  | 317 Main Street Norwich, Connecticut<br>(860) 892-1380 Fax (860) 886-9165 |  |
|  |  | MONTVILLE, CT                                                             |  |
|  |  | <b>69 FITCH HILL RD &amp;<br/>LEFFINGWELL RD</b>                          |  |
|  |  | <b>E&amp;S DETAILS</b>                                                    |  |
|  |  | <b>10</b>                                                                 |  |



### SEED MIX FOR STORMWATER POND

THE NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES CONTAINS A SELECTION OF NATIVE GRASSES AND WILDFLOWERS DESIGNED TO COLONIZE RECENTLY DISTURBED SITES WHERE QUICK GROWTH OF VEGETATION IS DESIRED TO STABILIZE THE SOIL SURFACE. IT IS AN EXCELLENT SEED MIX FOR ECOLOGICALLY APPROPRIATE RESTORATIONS ON MOIST SITES THAT REQUIRE QUICK STABILIZATION AS WELL AS LONG-TERM ESTABLISHMENT OF NATIVE VEGETATION. THIS MIX IS PARTICULARLY APPROPRIATE FOR DETENTION BASINS THAT DO NOT NORMALLY HOLD STANDING WATER. SOME PLANTS IN THIS MIX CAN TOLERATE INFREQUENT INUNDATION, BUT NOT CONSTANT FLOODING.

SEEDING: THE MIX MAY BE APPLIED BY HYDROSEEDING, BY MECHANICAL SPREADER, BY HYDRO-SEEDING OR ON SMALL SITES IT CAN BE SPREAD BY HAND. WHEN APPLYING ON BARE SOIL, RAKE THE SOIL TO CREATE GROOVES, APPLY SEED, THEN LIGHTLY RAKE OVER. IN NEW ENGLAND, THE BEST RESULTS ARE OBTAINED WITH A SPRING OR EARLY FALL SEEDING. SUMMER AND LATE FALL SEEDING WILL BENEFIT WITH A LIGHT MULCHING OF WEED-FREE STRAW TO CONSERVE MOISTURE. LATE FALL AND WINTER DORMANT SEEDING REQUIRE A SLIGHT INCREASE IN THE SEEDING RATE. FERTILIZATION IS NOT REQUIRED UNLESS THE SOILS ARE PARTICULARLY INFERTILE.

APPLICATION RATE: 35 LBS/ACRE (1250 SQ. FT./LB.)

SPECIES \*: SWITCHGRASS (PANICUM VIRGATUM), VIRGINIA WILD RYE (ELYMUS VIRGINICUS), CREEPING RED FESCUE (FESTUCA RUBRA), FOX SEDGE (CAREX VULPINOIDEA), CREEPING BENTGRASS (AGROSTIS STOLONIFERA), SOFT RUSH (JUNCUS EFFUSUS), NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE), GRASS-LEAVED GOLDENROD (EUTHAMIA GRAMINIFOLIA), GREEN BULRUSH (SCIRPUS ATROVIRENS), BONESET (EUPATORIUM PERFORIATUM), BLUE VERVAIN (VERBENA HASTATA) UPLAND BENTGRASS (AGROSTIS PERENNANS), BIG BLUESTEM, NIAGRA (ANDROPOGON GERARDII), SENSITIVE FERN (ONOCLEA SENSIBILIS), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), WOOLGRASS (SCIRPUS CYPERINUS).

### SEED MIX FOR PERIMETER SLOPES

THE NEW ENGLAND NATIVE WARM SEASON GRASS MIX CONTAINS A BROAD SPECTRUM OF NATIVE WARM SEASON GRASSES TO ENSURE THAT A VARIETY OF THE SPECIES WILL SURVIVE IN THE SANDY AND DROUGHTY CONDITIONS TYPICALLY FOUND ALONG ROADSIDES, GRAVEL MINE RECLAMATION AREAS, AND OTHER LOW-FERTILITY, WELL-DRAINED SOIL CONDITIONS. THIS MIX IS SOMEWHAT SLOW TO GERMINATE AND ESTABLISH DURING THE FIRST YEAR OF PLANTING, BUT IT WILL PRODUCE GOOD COVER BY THE END OF THE SECOND GROWING SEASON AND ESTABLISH LONG-LIVING NATIVE STANDS. COOL SEASON RYE GRASS AND FESCUE HAVE BEEN ADDED AS A "STARTER" SEED FOR EROSION CONTROL. THIS MIX HAS EXCELLENT HEAT AND DROUGHT TOLERANCE, AND GROWS WELL IN WELL-DRAINED SOILS. WARM SEASON GRASSES PROVIDE EXCELLENT YEAR-ROUND COVER AND FOOD FOR WILDLIFE, PARTICULARLY AS WINTER COVER FOR SMALL ANIMALS.

SEEDING: THIS MIX MAY BE APPLIED BY HYDRO SEEDING ON SLOPES, BY MECHANICAL SPREADER, OR ON SMALL SITES IT MAY BE SPREAD BY HAND. IN NEW ENGLAND, THE BEST RESULTS ARE OBTAINED WITH A MID-LATE SPRING SEEDING. APPLICATION RATE: 23 LBS/ACRE (1900 SQ. FT./LB)

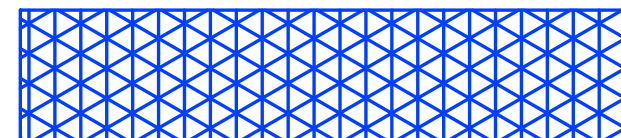
### NOTES:

1. INSTALL FOREBAY #1, WATER QUALITY BASIN #1, AND WATER QUALITY BASIN #2, AS SHOWN PRIOR TO THE START OF CONSTRUCTION..
2. ONCE THE SITE IS STABILIZED, REMOVE ALL SEDIMENT FROM FOREBAYS & WATER QUALITY BASINS.
3. REMOVE AN ADDITION 12" OF MATERIAL, BELOW ELEVATION OF 36 AND INSTALL 12" OF TOPSOIL.

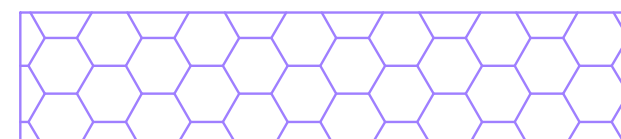
THE FOLLOWING SEEDING MIXTURES SHALL BE PROVIDED ON ALL DISTURBED AREAS.

|                     |            |
|---------------------|------------|
| KENTUCKY BLUE GRASS | 20 LB's/AC |
| CREEPING RED FESCUE | 20 LB's/AC |
| PERENNIAL RYEGRASS  | 5 LB's/AC  |

NOTE: SITE GRADING SEEDING TO BE USED IN ALL DISTURBED AREAS



PERIMETER SLOPES SEED MIX



WETLAND MIX (NEW ENGLAND EROSION CONTROL/RESTORATION FOR MOIST SITES)

|  |     |      |                                                                           |                          |
|--|-----|------|---------------------------------------------------------------------------|--------------------------|
|  |     |      | <b>GREEN SITE DESIGN LLC</b>                                              |                          |
|  |     |      | 317 Main Street Norwich, Connecticut<br>(860) 892-1380 Fax (860) 886-9165 |                          |
|  |     |      | MONTVILLE, CT                                                             |                          |
|  |     |      | <b>69 FITCH HILL RD &amp; LEFFINGWELL RD</b>                              |                          |
|  |     |      | PLANTING PLAN                                                             |                          |
|  | No. | DATE | REVISION                                                                  | Project No.<br>GSD-68    |
|  |     |      |                                                                           | Proj. Engineer<br>E.M.B. |
|  |     |      |                                                                           | Date:<br>2/15/23         |
|  |     |      |                                                                           | Sheet No.<br><b>11</b>   |