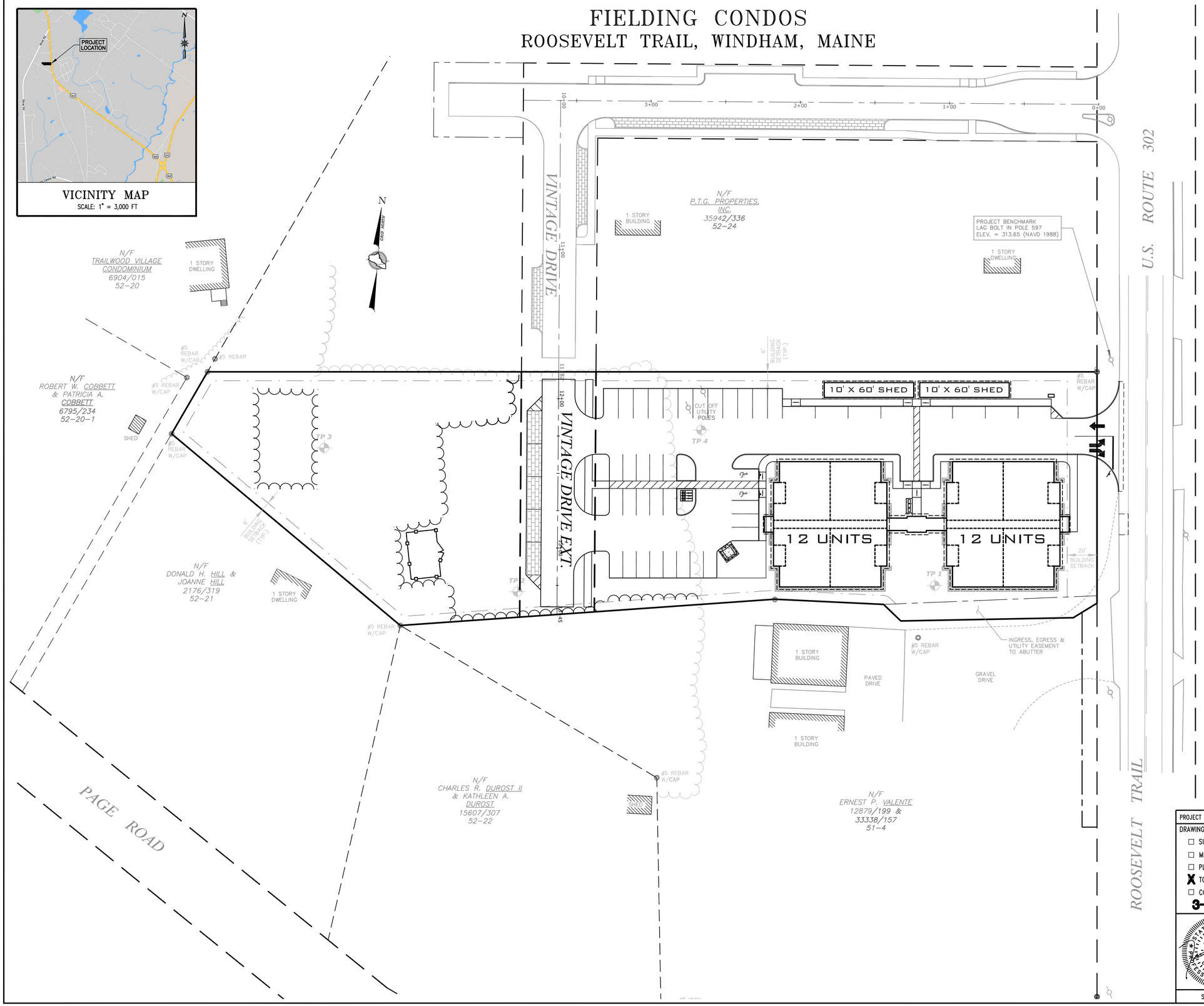
# FIELDING CONDOS
## ROOSEVELT TRAIL, WINDHAM, MAINE




VICINITY MAP
SCALE: 1" = 3,000 FT

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LANDSCAPE PLAN
SITE LIGHTING LAYOUT
ARCHITECTURAL PLANS


## ABUTTERS

| ASSESSOR'S MAP | PARCEL NUMBER | OWNER'S NAME |
|---|---|---|
| 51 | 4 | ERNEST P. VALENTE<br>PO BOX 1963, WINDHAM, ME 04062<br>BOOK 39865, PAGE 157 |
| 52 | 20 | TRAILWOOD VILLAGE CONDOMINIUM<br>936 ROOSEVELT TRAIL, SUITE 13, WINDHAM, ME 04062<br>BOOK 6904, PAGE 015 |
| 52 | 20–1 | ROBERT W. COBBETT & PATRICIA A. COBBETT<br>37 PAGE ROAD, WINDHAM, ME 04062<br>BOOK 6795, PAGE 234 |
| 52 | 21 | DONALD H. HILL & JOANNE HILL<br>31 PAGE ROAD, WINDHAM, ME 04062<br>BOOK 2176, PAGE 319 |
| 52 | 22 | CHARLES R. DUROST II & KATHLEEN A. DUROST<br>3 WELCH ROAD, WINDHAM, ME 04062<br>BOOK 15607, PAGE 307 |
| 52 | 24 | P.T.G. PROPERTIES, INC.<br>75 LOCKLAND DRIVE, WINDHAM, ME 04062<br>BOOK 35942, PAGE 336 |

THIS PLAN IS FOR REVIEW PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION OR RECORDING

| Revision: | By: | Date: | Change: |
|---|---|---|---|
| 3 | SMA | 3/16/20 | ADDED PROPANE TANKS |
| 2 | SMA | 1/6/20 | REVISED PER TOWN COMMENTS |
| 1 | SMA | 12/21/20 | SUBMITTED FOR TOWN REVIEW |

PROJECT NUMBER: 41878 | ACAD FILE: 41878-COVER.DWG | SCALE: 1" = 30' | DATE: DECEMBER 21, 2020

DRAWING STATUS
- ☐ SUBDIVISION PLAN
- ☐ MDEP REVIEW
- ☐ PLANNING BOARD
- ☒ TOWN REVIEW
- ☐ CONSTRUCTION

**3-16-20**

Drawing Name: COVER/INDEX/VICINITY PLAN

Project Name: FIELDING CONDOS
ROOSEVELT TRAIL, WINDHAM, MAINE

Owner/Applicant: FIELDING'S OIL CO., INC.

STATE OF MAINE — Travis A. Letalien — 13920 — LICENSED PROFESSIONAL ENGINEER — 3-16-20

SHEET 1 OF 12


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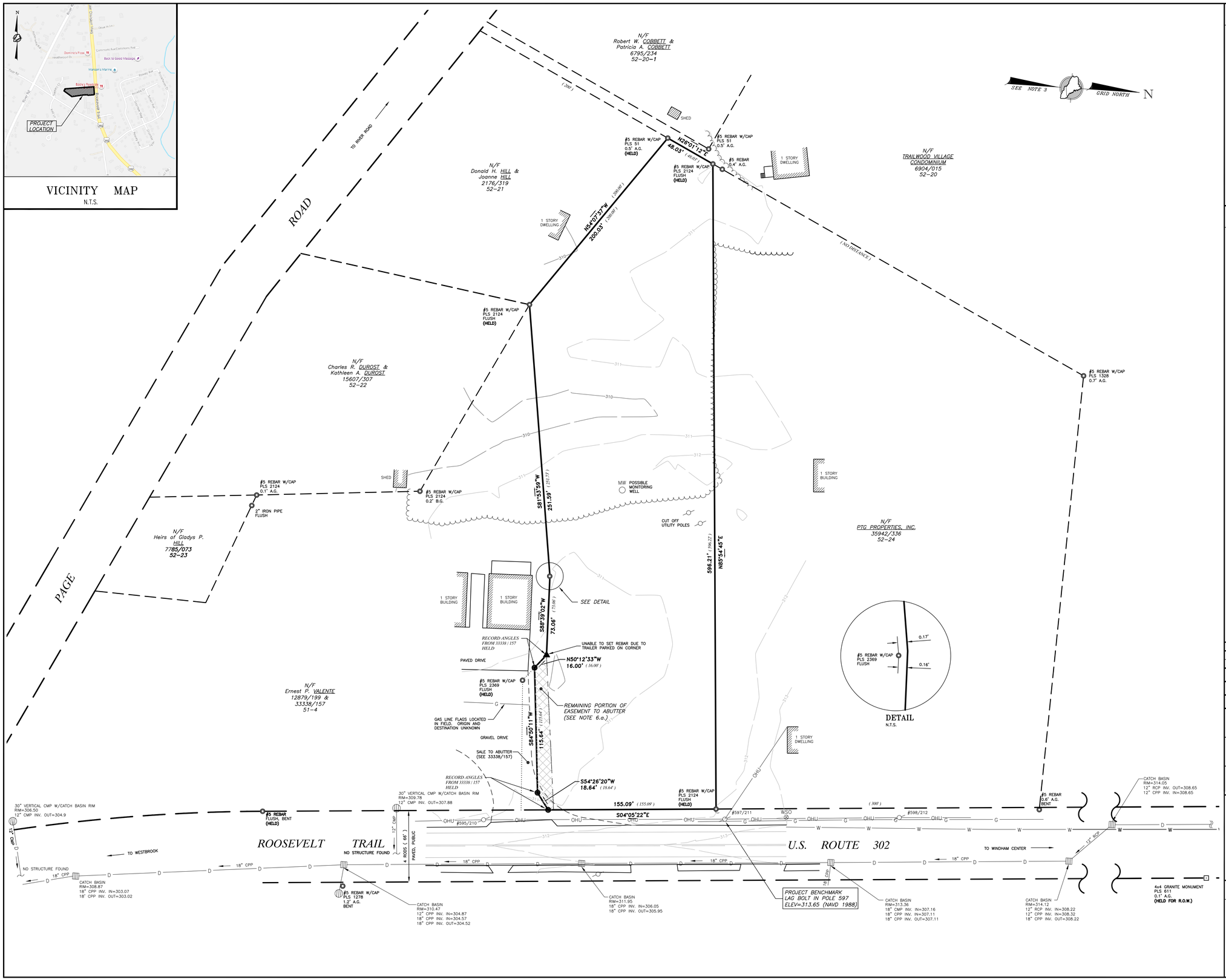
tel 207.883.1000 fax 207.883.1001 e-mail / website info@northeastcivilsolutions.com www.northeastcivilsolutions.com


0 30' 60' 120'

E:\LAND PROJECT\41000\41878 – FIELDING – WINDHAM\PLANSET\41878-COVER.DWG

VICINITY MAP
N.T.S.




# LEGEND

| | |
|---|---|
| ▲ | NO MONUMENTATION FOUND OR SET |
| ● | #5 REBAR WITH CAP (NCS 2080) SET ON JUNE 4, 2020 |
| | FOUND IRON (SIZE & TYPE AS NOTED) |
| | FOUND MONUMENT (SIZE & TYPE AS NOTED) |
| | UTILITY POLE (NUMBER AS NOTED) |
| | GUY WIRE ANCHOR |
| | TREE LINE (APPROXIMATE) |
| | BOUNDARY LINE |
| | EASEMENT LINE |
| | EDGE OF GRAVEL |
| | EDGE OF PAVEMENT |
| | RIGHT-OF-WAY LINE |
| | ABUTTER LINE |
| OHU | OVERHEAD UTILITY |
| N/F | NOW OR FORMERLY OWNED BY |
| 1234/567 | DEED BOOK AND PAGE |
| 12-34 | TAX MAP-LOT |
| (123.45') | PARENTHESIS DENOTE RECORD DATA |

# NOTES

1. RECORD OWNER OF THE PARCEL SURVEYED IS FIELDING'S OIL CO., INC. AS DESCRIBED IN A DEED FROM THE ESTATE OF HENRY VALENTE, DATED AUGUST 1, 2016 AND RECORDED IN BOOK 33338, PAGE 154 IN THE CUMBERLAND COUNTY REGISTRY OF DEEDS.

   TOTAL LOT AREA IS: 91,015 S.F. OR 2.09 Ac.

2. THE PARCEL SURVEYED IS IDENTIFIED ON THE TOWN OF WINDHAM TAX ASSESSOR'S MAP 51, PARCEL 4-1.

3. THE BEARINGS SHOWN ON THIS PLAN ARE BASED ON MAINE COORDINATE SYSTEM OF 1983, WEST ZONE, GRID NORTH.

4. PLAN REFERENCES:

   a. "PLAN SHOWING A STANDARD BOUNDARY AND TOPOGRAPHIC SURVEY FOR PINELYNE FURNITURE COMPANY, INC., ROUTE 302 AND PAGE ROAD, WINDHAM, MAINE" BY MIDDLE BRANCH PROFESSIONAL LAND SURVEYORS, DATED APRIL 24, 1997, RECORDED IN PLAN BOOK 197, PAGE 534.

   b. "STANDARD BOUNDARY SURVEY, TRAILWOOD VILLAGE CONDOMINIUM, PAGE ROAD, WINDHAM, MAINE" BY F.S. PLUMMER CO., INC., DATED JULY 11, 1985, RECORDED IN PLAN BOOK 150, PAGE 28.

   c. "EXISTING CONDITIONS PLAN ON ROOSEVELT TRAIL, WINDHAM, MAINE FOR PETER GILMAN" BY WAYNE T. WOOD & CO., DATED OCTOBER, 2019, NOT RECORDED.

   d. "RIGHT-OF-WAY MAP, STATE HIGHWAY 14, FEDERAL AID PROJECT NO. F-014-1(41)" BY STATE OF MAINE, DEPARTMENT OF TRANSPORTATION, DATED SEPTEMBER, 1986, D.O.T. FILE NO. 3-346.

   e. "PLAN OF PAGE ROAD IN THE TOWN OF WINDHAM AS REDEFINED BY THE COMMISSIONERS OF CUMBERLAND COUNTY FOLLOWING THE HEARING ON THE SAME, SEPTEMBER 7, 1955" BY H.I. & E.C. JORDAN, DATED OCTOBER 14, 1955, RECORDED IN COUNTY COMMISSIONERS PLAN BOOK 7, PAGE 6.

5. THE WIDTH OF ROOSEVELT TRAIL IS 4 RODS (66') BASED ON CUMBERLAND COUNTY RECORDS. THE LAYOUT OF THE RIGHT-OF-WAY LIMITS IS BASED ON MONUMENTATION FOUND.

6. REFERENCE IS MADE TO THE FOLLOWING EASEMENTS OF RECORD:
   a. EASEMENT FOR INGRESS, EGRESS AND UTILITIES FROM HENRY VALENTE TO ERNEST VALENTE, DATED APRIL 28, 2016, RECORDED IN BOOK 33256, PAGE 224. A PORTION OF THE LAND UNDER THIS EASEMENT WAS LATER CONVEYED TO ERNEST VALENTE ON AUGUST 4, 2016 AND RECORDED IN BOOK 33338, PAGE 157, LEAVING THE REMAINING EASEMENT AS SHOWN ON THIS PLAN.

7. AS OF THE ORIGINAL DATE OF THIS PLAN, THE PARCEL SURVEYED IS LOCATED IN THE C-1 ZONE. PORTIONS OF BULK & SPACE REQUIREMENTS ARE AS FOLLOWS:

   MINIMUM LOT AREA = NONE
   MINIMUM FRONTAGE = 100'
   SETBACKS:
   FRONT = 10'-20' (PRINCIPAL BLDGS), 20'+ (ACCESSORY BLDGS)
   SIDE = 6'
   REAR = 6'

   OTHER MUNICIPAL AND STATE OVERLAY ZONES MAY EXIST AND APPLY. BEFORE PROCEEDING ON ANY PROJECT WE RECOMMEND VERIFYING CURRENT ZONE AND ALL APPLICABLE SETBACKS AND RESTRICTIONS WITH THE APPROPRIATE AGENCIES.

8. ELEVATIONS AND CONTOURS ARE BASED ON NAVD 1988 DATUM OBTAINED BY GPS-RTK. SEE PLAN FOR TBM DESCRIPTION.

9. THE UTILITIES SHOWN ON THIS PLAN WERE FROM FIELD OBSERVATION ONLY. THERE MAY BE OTHER UTILITIES EXISTING THAT ARE NOT SHOWN. CONTACT DIG-SAFE (888)DIG-SAFE PRIOR TO ANY EXCAVATION WORK.

| Revision: | By: | Date: | Change: |
|---|---|---|---|
| | | | |
| 1 | SMA | 1/4/21 | UPDATED BUILDING SETBACKS |

| | | |
|---|---|---|
| PROJECT: 41878 | DRAWING NAME: 41878.dwg | |
| ISSUED: JUNE 4, 2020 | SCALE: 1"=40' | FB # 426 | DRAWN BY: JAP |
| FIELDED BY: JAP / ASF | FIELD DATE: 5/08/2020 | CHECKED BY: DMM / TFM |

Drawing Name and Location:
BOUNDARY & TOPOGRAPHIC SURVEY
ROOSEVELT TRAIL, WINDHAM, MAINE

Owner:
FIELDING'S OIL CO., INC.
420 U.S. ROUTE 1, SCARBOROUGH, MAINE 04074

Prepared For:
FIELDING'S OIL CO., INC.

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tel 207.883.1000 fax 207.883.1001
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info@northeastcivilsolutions.com
www.northeastcivilsolutions.com

0 40' 80' 160'

STAMP AND SIGNATURE

TROY F. McDONALD
MAINE PROFESSIONAL LAND SURVEYOR No. 2080

1/4/2021
DATE

STATE OF MAINE
TROY F. McDONALD
#2080
PROFESSIONAL LAND SURVEYOR

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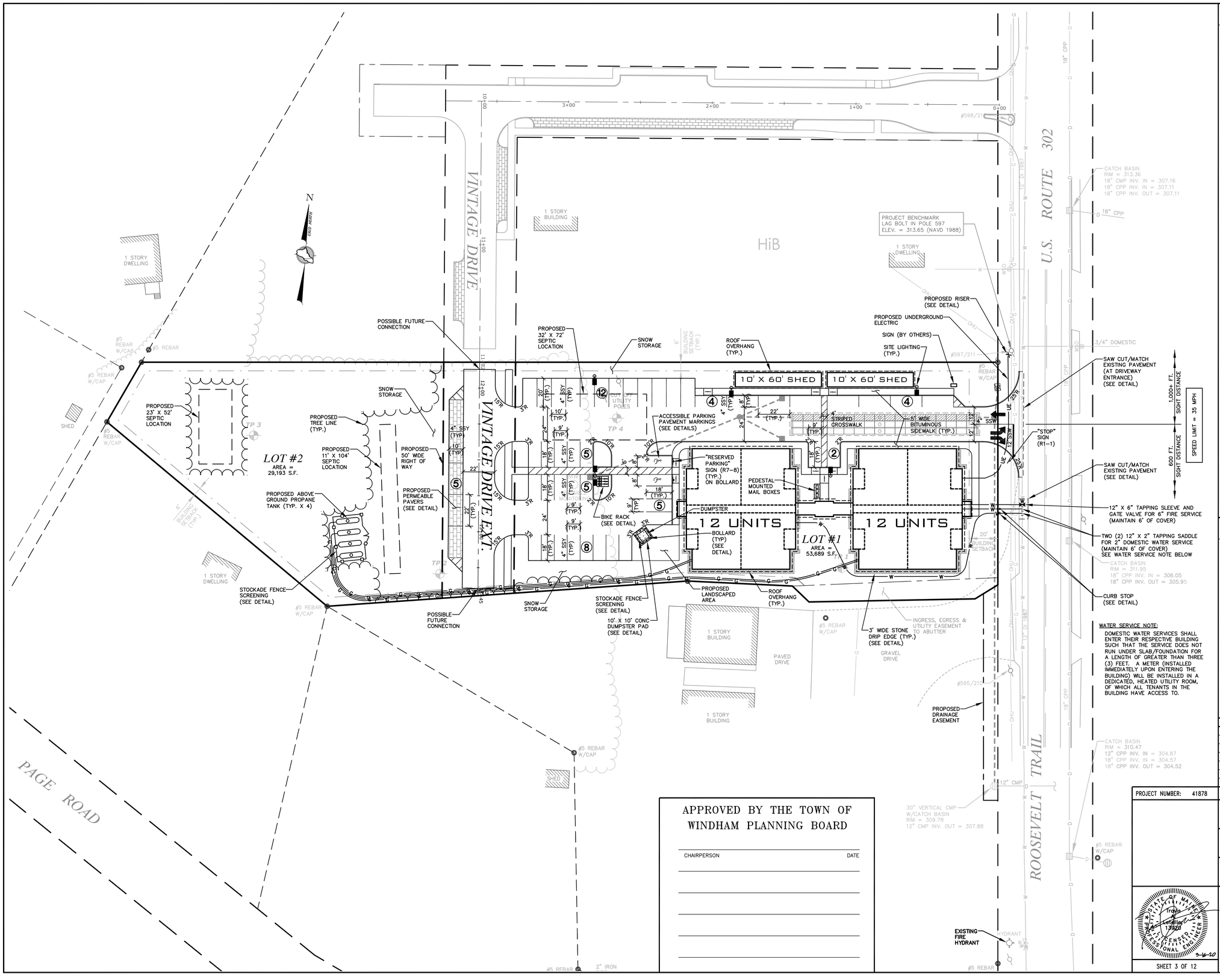


## LEGEND

- BOUNDARY LINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- RIGHT-OF-WAY LINE
- ABUTTER
- BUILDING SETBACK
- EXISTING EASEMENT
- EXISTING CATCH BASIN
- EXISTING OVERHEAD UTILITIES
- EXISTING UTILITY POLE
- EXISTING WATER LINE
- EXISTING WATER SHUT OFF
- EXISTING GAS LINE
- EXISTING TREE LINE
- TESP PIT LOCATION
- PROPOSED WATER LINE
- PROPOSED FORCE MAIN
- PROPOSED SEWER LINE
- PROPOSED UNDERGROUND UTILITIES (ELECTRIC, TELEPHONE & CABLE)
- PROPOSED PROPANE LINE
- PROPOSED DRAIN LINE
- PROPOSED OUTLET CONTROL STRUCTURE
- PROPOSED CATCH BASIN
- PROPOSED DRAIN MANHOLE
- PROPOSED TREE LINE
- PROPOSED PERMEABLE PAVER
- PROPOSED DRAINAGE EASEMENT

STRIPING KEY:
SSY = SINGLE SOLID YELLOW
SSW = SINGLE SOLID WHITE
* SEE DETAILS FOR ADDITIONAL PAVEMENT MARKINGS

## NOTES

1. SEPTIC SYSTEM SETBACKS:
   18' (MIN.) FROM PROPERTY LINE
   100' (MIN.) FROM OTHER DISPOSAL FIELD
   30' (MIN.) FROM BUILDING FOUNDATION
   100' (MIN.) FROM WELL

WATER SERVICE NOTE:
DOMESTIC WATER SERVICES SHALL ENTER THEIR RESPECTIVE BUILDING SUCH THAT THE SERVICE DOES NOT RUN UNDER SLAB/FOUNDATION FOR A LENGTH OF GREATER THAN THREE (3) FEET. A METER (INSTALLED IMMEDIATELY UPON ENTERING THE BUILDING) WILL BE INSTALLED IN A DEDICATED, HEATED UTILITY ROOM, OF WHICH ALL TENANTS IN THE BUILDING HAVE ACCESS TO.

**THIS PLAN IS FOR REVIEW PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION OR RECORDING**

APPROVED BY THE TOWN OF WINDHAM PLANNING BOARD

CHAIRPERSON DATE

| Revision: | By: | Date: | Change: |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| 3 | SMA | 3/16/20 | ADDED PROPANE TANKS |
| 2 | SMA | 1/6/20 | REVISED PER TOWN COMMENTS |
| 1 | SMA | 12/21/20 | SUBMITTED FOR TOWN REVIEW |

PROJECT NUMBER: 41878 | ACAD FILE: 41878-SITE.DWG | SCALE: 1" = 30' | DATE: DECEMBER 21, 2020

Drawing Name:
SITE, LAYOUT & UTILITY PLAN

Project Name:
FIELDING CONDOS
ROOSEVELT TRAIL, WINDHAM, MAINE

Owner/Applicant:
FIELDING'S OIL CO., INC.

STATE OF MAINE — Travis Lotellier 13020 — LICENSED PROFESSIONAL ENGINEER — 3-16-20

SHEET 3 OF 12

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0 30' 60' 120'

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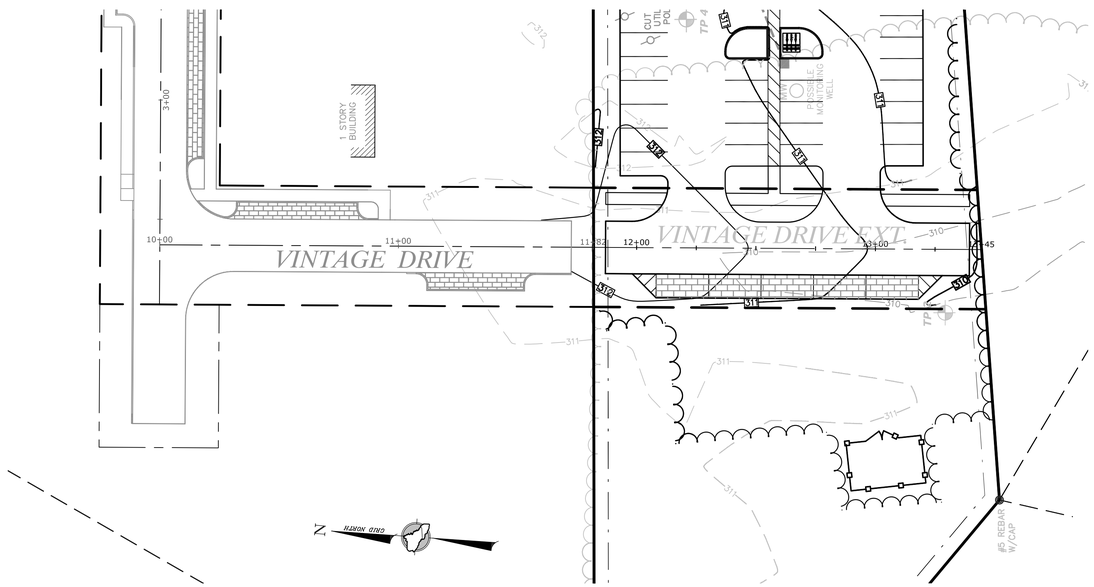
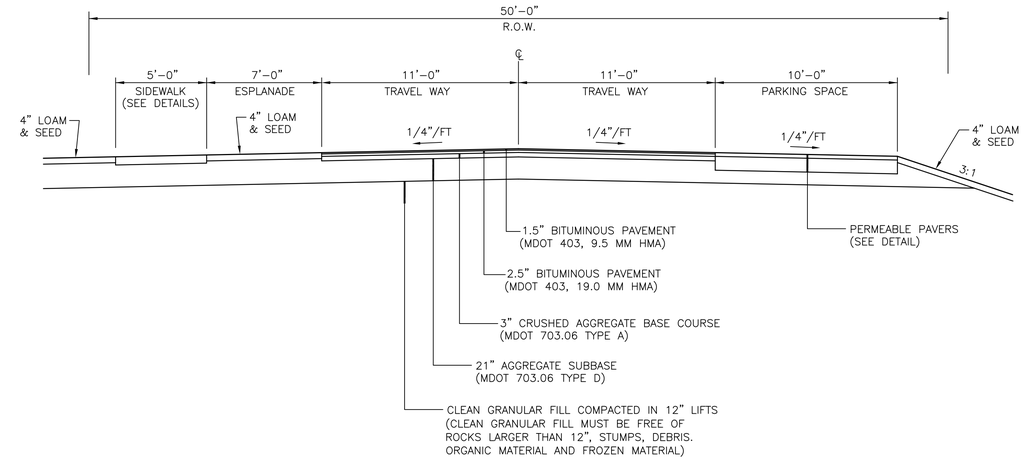



## PLAN – VINTAGE DRIVE EXT.

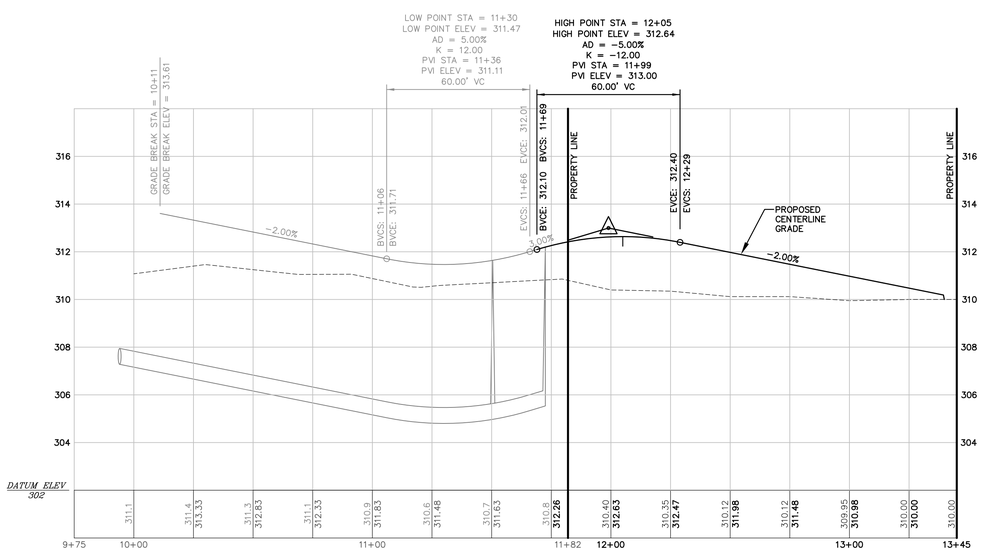
HORIZONTAL SCALE 1" = 30'

0 30' 60' 120'




## TYPICAL ROAD CROSS SECTION
## STA. 11+82 TO STA. 13+45

NOT TO SCALE



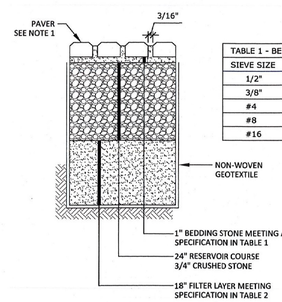

## ROAD PROFILE – VINTAGE DRIVE EXT.

HORIZONTAL SCALE 1" = 30'

0 30' 60' 120'

VERTICAL SCALE 1" = 3'

0 3' 6' 12'




| TABLE 1 - BEDDING STONE (ASTM #8) | |
|---|---|
| SIEVE SIZE | % PASSING BY WEIGHT |
| 1/2" | 100 |
| 3/8" | 85-100 |
| #4 | 10-30 |
| #8 | 0-10 |
| #16 | 0-5 |

| TABLE 2 - FILTER LAYER AGGREGATE | |
|---|---|
| SIEVE SIZE | % PASSING BY WEIGHT |
| 3/8" | 100 |
| #4 | 95-100 |
| #8 | 80-100 |
| #16 | 50-85 |
| #30 | 25-60 |
| #60 | 10-30 |
| #100 | 8-10 |
| #200 | 4-7 |

### GENERAL NOTES:

1. PAVERS SHALL BE STORMWATER BRICK AS MANUFACTURED BY GENEST CONCRETE WORKS, INC. OR APPROVED EQUAL. PAVERS TO BE INSTALLED PER MANUFACTURER SPECIFICATIONS.

## PERMEABLE PAVER DETAIL

NOT TO SCALE

### BMP CONSTRUCTION OVERSIGHT NOTES:

1. INSPECTIONS BY THE DESIGN ENGINEER OR SUITABLE THIRD PARTY WILL OCCUR AS NECESSARY TO CONFIRM THE MINIMUM THICKNESS OF EACH LAYER HAS BEEN PLACED AND COMPACTED PER MANUFACTURER'S SPECIFICATIONS. ALL THE MATERIAL USED FOR THE CONSTRUCTION OF THE PERMEABLE PAVER SECTION MUST BE CONFIRMED AS SUITABLE BY THE DESIGN ENGINEER. TESTING MUST BE DONE BY A CERTIFIED LABORATORY TO SHOW THAT THEY ARE PASSING MDEP SPECIFICATIONS.

2. TESTING AND SUBMITTALS: THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE SOURCE OF EACH COMPONENT OF THE PERMEABLE PAVER SECTION. ALL RESULTS OF FIELD AND LABORATORY TESTING SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR CONFIRMATION. THE CONTRACTOR SHALL:
   - A) SAMPLES OF THE FILTER LAYER, RESERVOIR COURSE AND BEDDING STONE SHALL BE COLLECTED. SAMPLES MUST BE A COMPOSITE OF THREE DIFFERENT LOCATIONS (GRABS) FROM THE STOCKPILE OR PIT FACE. SAMPLE SIZE REQUIRED WILL BE DETERMINED BY THE TESTING LABORATORY.
   - B) PERFORM A SIEVE ANALYSIS CONFORMING TO ASTM C136 (STANDARD TEST METHOD FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES 1996A) ON EACH TYPE OF THE SAMPLE MATERIAL. THE RESULTING FILTER MEDIA MIXTURE MUST HAVE 4% TO 7% BY WEIGHT PASSING THE #200 SIEVE AND A CLAY CONTENT OF LESS THAN 2% (DETERMINED BY HYDROMETER GRAIN SIZE ANALYSIS)

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PROJECT NUMBER: 41878 | ACAD FILE: 41878–SITE.DWG | SCALE: 1" = 30' | DATE: DECEMBER 21, 2020

Drawing Name:
PLAN & PROFILE

Project Name:
FIELDING CONDOS
ROOSEVELT TRAIL, WINDHAM, MAINE

Owner/Applicant:
FIELDING'S OIL CO., INC.

STATE OF MAINE
Travis A. Letalien
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LICENSED PROFESSIONAL ENGINEER
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0 30' 60' 120'



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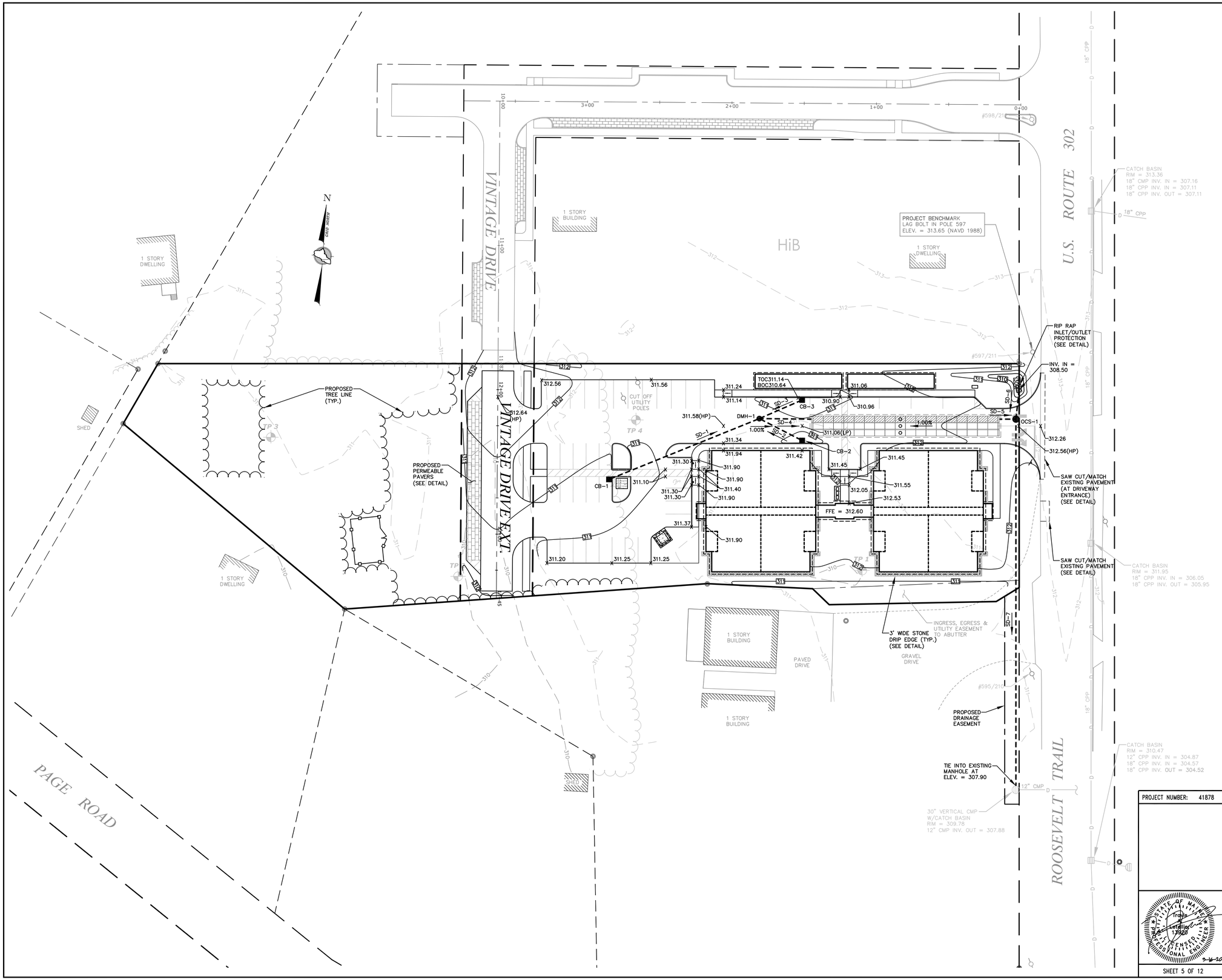


## LEGEND

- BOUNDARY LINE
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
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- EXISTING CONTOUR
- EXISTING EASEMENT
- EXISTING CATCH BASIN
- EXISTING UTILITY POLE
- EXISTING TREE LINE
- EXISTING CONTOUR
- PROPOSED DRAIN LINE
- PROPOSED OUTLET CONTROL STRUCTURE
- PROPOSED CATCH BASIN
- PROPOSED DRAIN MANHOLE
- PROPOSED TREE LINE
- PROPOSED CONTOUR
- PROPOSED PERMEABLE PAVER
- X301.96 — SPOT GRADE
- (LP) — LOW POINT
- (HP) — HIGH POINT
- 2.00% — SURFACE GRADE
- PROPOSED DRAINAGE EASEMENT

## NOTES

STRUCTURE SCHEDULE

| STRUCTURE | RIM | INVERT IN | INVERT OUT |
|---|---|---|---|
| CB-1 | 310.75 | ---- | 307.60 (SD1) |
| CB-2 | 310.60 | ---- | 308.00 (SD-2) |
| CB-3 | 320.60 | ---- | 308.00 (SD-3) |
| DMH-1 | 311.40 | 306.50 (SD-1)<br>307.75 (SD-2)<br>307.75 (SD-3) | 36.10 (SD-4) |
| OCS-1 | SEE DETAIL | | |

PIPE SCHEDULE

| PIPE | PIPE DIAMETER | PIPE LENGTH | PIPE SLOPE (FT/FT) | TYPE |
|---|---|---|---|---|
| SD-1 | 12" | 110' | 0.010 | CORRUGATED HDPE (SMOOTH INTERIOR) |
| SD-2 | 12" | 30' | 0.010 | CORRUGATED HDPE (SMOOTH INTERIOR) |
| SD-3 | 12" | 30' | 0.010 | CORRUGATED HDPE (SMOOTH INTERIOR) |
| SD-4 | 12" | 35' | 0.000 FLAT | CORRUGATED HDPE (SMOOTH INTERIOR) |
| SD-5 | 12" | 10' | 0.000 FLAT | CORRUGATED HDPE (SMOOTH INTERIOR) |
| SD-6 | 12" | 20' | 0.002 | CORRUGATED HDPE (SMOOTH INTERIOR) |
| SD-7 | 12" | 250' | 0.002 | CORRUGATED HDPE (SMOOTH INTERIOR) |

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PROJECT NUMBER: 41878 | ACAD FILE: 41878-GRADING.DWG | SCALE: 1" = 30' | DATE: DECEMBER 21, 2020

Drawing Name:
GRADING & DRAINAGE PLAN

Project Name:
FIELDING CONDOS
ROOSEVELT TRAIL, WINDHAM, MAINE

Owner/Applicant:
FIELDING'S OIL CO., INC.

STATE OF MAINE — Travis A. Letellier 13920 — LICENSED PROFESSIONAL ENGINEER — 3-16-20

SHEET 5 OF 12

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0 30' 60' 120'

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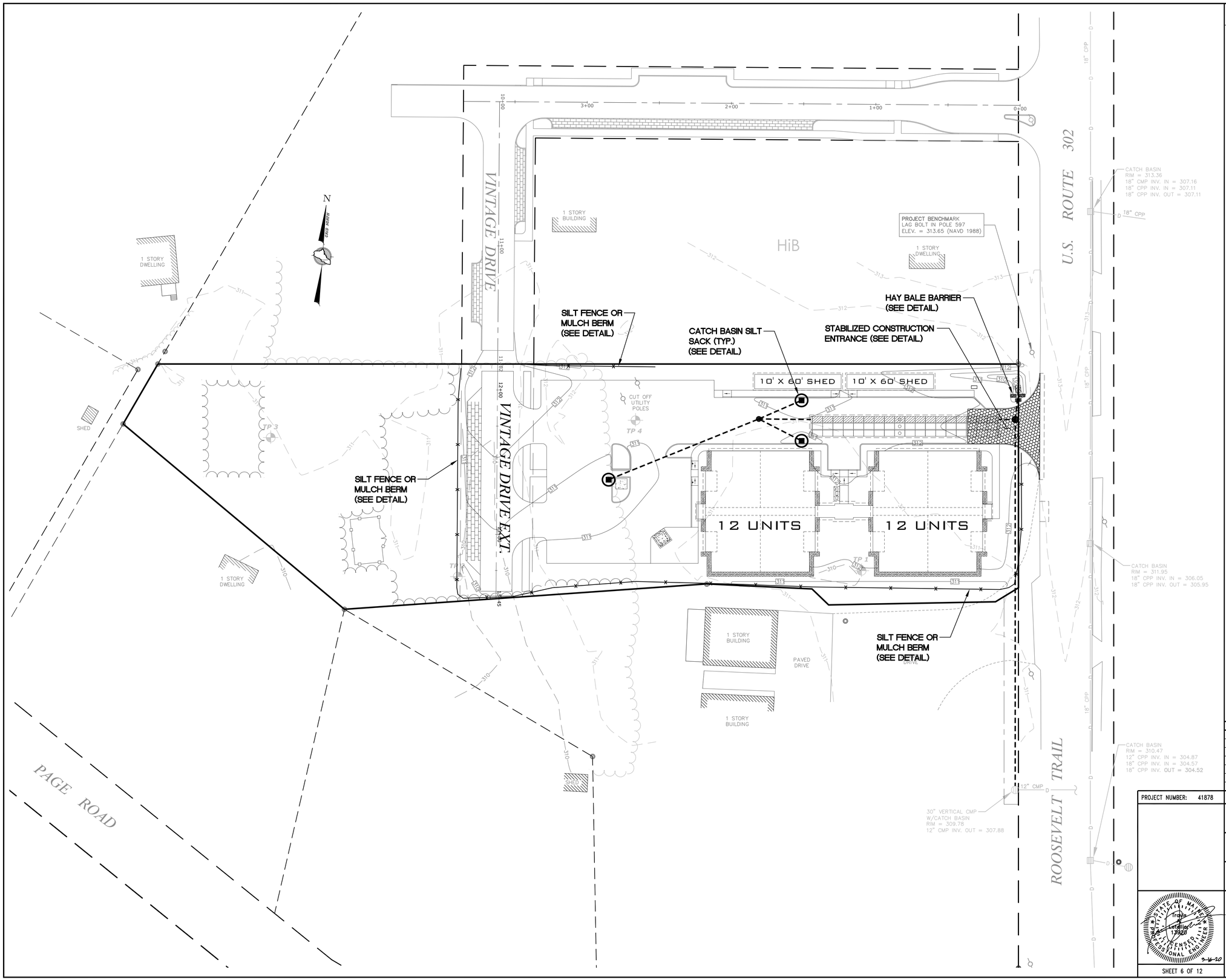


## LEGEND

- MULCH BERM/EROSION CONTROL MIX OR SILT FENCE
- STABILIZED CONSTRUCTION ENTRANCE
- CATCH BASIN INLET PROTECTION (SILT SACK)
- HAYBALE BARRIER

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EROSION & SEDIMENTATION CONTROL PLAN

Project Name:
FIELDING CONDOS
ROOSEVELT TRAIL, WINDHAM, MAINE

Owner/Applicant:
FIELDING'S OIL CO., INC.

STATE OF MAINE
Travis A. Letellier
13920
LICENSED PROFESSIONAL ENGINEER
3-16-20

SHEET 6 OF 12


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0 30' 60' 120'

E:\LAND PROJECT\41000\41878 - FIELDING - WINDHAM\PLANSET\41878-EROSION.DWG

# EROSION AND SEDIMENTATION CONTROL PLAN NOTES

SEDIMENTATION AND EROSION FOR THIS PROJECT IS BASED UPON SOUND CONSERVATION PRACTICES, AND ADHERES TO THE STANDARDS DETAILED IN MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMP) BY THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, DATED OCTOBER 2016. THE CONTRACTOR SHALL MAKE HIMSELF FAMILIAR WITH THE AFOREMENTIONED PUBLICATION AND COMPLY WITH THE PRACTICES PRESENTED THEREIN.

A PERSON WHO CONDUCTS, OR CAUSES TO BE CONDUCTED, AN ACTIVITY THAT INVOLVES FILLING, DISPLACING OR EXPOSING SOIL OR OTHER EARTHEN MATERIALS SHALL TAKE MEASURES TO PREVENT UNREASONABLE EROSION OF SOIL OR SEDIMENT BEYOND THE PROJECT SITE OR INTO A PROTECTED NATURAL RESOURCE AS DEFINED IN 38 M.R.S. §480–B. EROSION CONTROL MEASURES MUST BE IN PLACE BEFORE THE ACTIVITY BEGINS. MEASURES MUST REMAIN IN PLACE AND FUNCTIONAL UNTIL THE SITE IS PERMANENTLY STABILIZED. ADEQUATE AND TIMELY TEMPORARY AND PERMANENT STABILIZATION MEASURES MUST BE TAKEN.

1 EROSION AND SEDIMENTATION CONTROL

1.1 POLLUTION PREVENTION. MINIMIZE DISTURBED AREAS AND PROTECT NATURAL DOWNGRADIENT BUFFER AREAS TO THE EXTENT PRACTICABLE. CONTROL STORMWATER VOLUME AND VELOCITY WITHIN THE SITE TO MINIMIZE SOIL EROSION. MINIMIZE THE DISTURBANCE OF STEEP SLOPES. CONTROL STORMWATER DISCHARGES, INCLUDING BOTH PEAK FLOW RATES AND VOLUME, TO MINIMIZE EROSION AT OUTLETS. THE DISCHARGE MAY NOT RESULT IN EROSION OF ANY OPEN DRAINAGE CHANNELS, SWALES, STREAM CHANNELS OR STREAM BANKS, UPLAND, OR COASTAL OR FRESHWATER WETLANDS OFF THE PROJECT SITE, WHENEVER PRACTICABLE, NO DISTURBANCE ACTIVITIES SHOULD TAKE PLACE WITHIN 50 FEET OF ANY PROTECTED NATURAL RESOURCE. IF DISTURBANCE ACTIVITIES TAKE PLACE BETWEEN 30 FEET AND 50 FEET OF ANY PROTECTED NATURAL RESOURCE, AND STORMWATER DISCHARGES THROUGH THE DISTURBED AREAS TOWARD THE PROTECTED NATURAL RESOURCE, PERIMETER EROSION CONTROLS MUST BE DOUBLED. IF DISTURBANCE ACTIVITIES TAKE PLACE LESS THAN 30 FEET FROM ANY PROTECTED NATURAL RESOURCE, AND STORMWATER DISCHARGES THROUGH THE DISTURBED AREAS TOWARD THE PROTECTED NATURAL RESOURCE, PERIMETER EROSION CONTROLS MUST BE DOUBLED AND DISTURBED AREAS MUST BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 7 DAYS.

1.2 SEDIMENT BARRIERS. PRIOR TO CONSTRUCTION, PROPERLY INSTALL SEDIMENT BARRIERS AT THE DOWNGRADIENT EDGE OF AREA TO BE DISTURBED AND ADJACENT TO ANY DRAINAGE CHANNELS WITHIN THE DISTURBED AREA. SEDIMENT BARRIERS SHOULD BE INSTALLED DOWNGRADIENT OF SOIL OR SEDIMENT STOCKPILES AND STORMWATER PREVENTING FROM RUNNING ONTO THE STOCKPILE. MAINTAIN THE SEDIMENT BARRIERS BY REMOVING ACCUMULATED SEDIMENT, OR REMOVING AND REPLACING THE BARRIER, UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. WHERE A DISCHARGE TO A STORM DRAIN INLET OCCURS, IF THE STORM DRAIN CARRIES WATER DIRECTLY TO A SURFACE WATER AND YOU HAVE AUTHORITY TO ACCESS THE STORM DRAIN INLET, YOU MUST INSTALL AND MAINTAIN PROTECTION MEASURES THAT REMOVE SEDIMENT FROM THE DISCHARGE.

1.3 STABILIZED CONSTRUCTION ENTRANCE. PRIOR TO CONSTRUCTION, PROPERLY INSTALL A STABILIZED CONSTRUCTION ENTRANCE (SCE) AT ALL POINTS OF EGRESS FROM THE SITE. THE SCE IS A STABILIZED PAD OF AGGREGATE, UNDERLAIN BY A GEOTEXTILE FILTER FABRIC, USED TO PREVENT TRAFFIC FROM TRACKING MATERIAL AWAY FROM THE SITE ONTO PUBLIC ROWS. MAINTAIN THE SCE UNTIL ALL DISTURBED AREAS ARE STABILIZED.

1.4 TEMPORARY STABILIZATION. WITHIN 7 DAYS OF THE CESSATION OF CONSTRUCTION ACTIVITIES IN AN AREA THAT WILL NOT BE WORKED FOR MORE THAN 7 DAYS, STABILIZE ANY EXPOSED SOIL WITH MULCH, OR OTHER NON–ERODIBLE COVER. STABILIZE AREAS WITHIN 75 FEET OF A WETLAND OR WATERBODY WITHIN 48 HOURS OF THE INITIAL DISTURBANCE OF THE SOIL OR PRIOR TO ANY STORM EVENT, WHICHEVER COMES FIRST.

1.5 REMOVAL OF TEMPORARY MEASURES. REMOVE ANY TEMPORARY CONTROL MEASURES, SUCH AS SILT FENCE, WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED. REMOVE ANY ACCUMULATED SEDIMENTS AND STABILIZE.

1.6 PERMANENT STABILIZATION. IF THE AREA WILL NOT BE WORKED FOR MORE THAN ONE YEAR OR HAS BEEN BROUGHT TO FINAL GRADE, WITHIN PERMANENTLY STABILIZE THE AREA WITHIN 7 DAYS BY PLANTING VEGETATION, SEEDING, SOD, OR THROUGH THE USE OF PERMANENT MULCH, OR RIPRAP, OR ROAD SUB–BASE. IF USING VEGETATION FOR STABILIZATION, SELECT THE PROPER VEGETATION FOR THE LIGHT, MOISTURE, AND SOIL CONDITIONS; AMEND AREAS OF DISTURBED SUBSOIL WITH TOPSOIL, COMPOST, OR OTHER ORGANIC MATERIALS; PROTECT SEEDED AREAS WITH MULCH OR, IF NECESSARY, EROSION CONTROL BLANKETS; AND SCHEDULE SODDING, PLANTING, AND SEEDING SO TO AVOID DIE–OFF FROM SUMMER DROUGHT AND FALL FROSTS. NEWLY SEEDED OR SODDED AREAS MUST BE PROTECTED FROM VEHICLE TRAFFIC, EXCESSIVE PEDESTRIAN TRAFFIC, AND CONCENTRATED RUNOFF UNTIL THE VEGETATION IS WELL–ESTABLISHED WITH 90% COVER BY HEALTHY VEGETATION. IF NECESSARY, AREAS MUST BE REWORKED AND RESTABILIZED IF GERMINATION IS SPARSE, PLANT COVERAGE IS SPOTTY, OR TOPSOIL EROSION IS EVIDENT. ONE OR MORE OF THE FOLLOWING MAY APPLY TO A PARTICULAR SITE.

1.6.1 SEEDED AREAS. FOR SEEDED AREAS, PERMANENT STABILIZATION MEANS A 90% COVER OF THE DISTURBED AREA WITH MATURE, HEALTHY PLANTS WITH NO EVIDENCE OF WASHING OR RILLING OF THE TOPSOIL.

1.6.2 SODDED AREAS. FOR SODDED AREAS, PERMANENT STABILIZATION MEANS THE COMPLETE BINDING OF THE SOD ROOTS INTO THE UNDERLYING SOIL WITH NO SLUMPING OF THE SOD OR DIE–OFF.

1.6.3 PERMANENT MULCH. FOR MULCHED AREAS, PERMANENT MULCHING MEANS TOTAL COVERAGE OF THE EXPOSED AREA WITH AN APPROVED MULCH MATERIAL. EROSION CONTROL MIX MAY BE USED AS MULCH FOR PERMANENT STABILIZATION ACCORDING TO THE APPROVED APPLICATION RATES AND LIMITATIONS.

1.6.4 RIP RAP. FOR AREAS STABILIZED WITH RIPRAP, PERMANENT STABILIZATION MEANS THAT SLOPES STABILIZED WITH RIPRAP HAVE AN APPROPRIATE BACKING OF A WELL–GRADED GRAVEL OR APPROVED GEOTEXTILE TO PREVENT SOIL MOVEMENT FROM BEHIND THE RIPRAP. STONE MUST BE SIZED APPROPRIATELY. IT IS RECOMMENDED THAT ANGULAR STONE BE USED.

1.6.5 AGRICULTURAL USE. FOR CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL PURPOSES (E.G., PIPELINES ACROSS CROP LAND), PERMANENT STABILIZATION MAY BE ACCOMPLISHED BY RETURNING THE DISTURBED LAND TO AGRICULTURAL USE.

1.6.6 PAVED AREAS. FOR PAVED AREAS, PERMANENT STABILIZATION MEANS THE PLACEMENT OF THE COMPACTED GRAVEL SUBBASE IS COMPLETED, PROVIDED IT IS FREE OF FINE MATERIALS THAT MAY RUNOFF WITH A RAIN EVENT

1.6.7 DITCHES, CHANNELS, AND SWALES. FOR OPEN CHANNELS, PERMANENT STABILIZATION MEANS THE CHANNEL IS STABILIZED WITH A 90% COVER OF HEALTHY VEGETATION, WITH A WELL–GRADED RIPRAP LINING, TURF REINFORCEMENT MAT, OR WITH ANOTHER NON–EROSIVE LINING SUCH AS CONCRETE OR ASPHALT PAVEMENT. THERE MUST BE NO EVIDENCE OF SLUMPING OF THE CHANNEL LINING, UNDERCUTTING OF THE CHANNEL BANKS, OR DOWN–CUTTING OF THE CHANNEL.

1.7 WINTER CONSTRUCTION. "WINTER CONSTRUCTION" IS CONSTRUCTION ACTIVITY PERFORMED DURING THE PERIOD FROM NOVEMBER 1 THROUGH APRIL 15. IF DISTURBED AREAS ARE NOT STABILIZED WITH PERMANENT MEASURES BY NOVEMBER 1 OR NEW SOIL DISTURBANCE OCCURS AFTER NOVEMBER 1, BUT BEFORE APRIL 15, THEN THESE AREAS MUST BE PROTECTED AND RUNOFF FROM THEM MUST BE CONTROLLED BY ADDITIONAL MEASURES AND RESTRICTIONS

1.7.1 SITE STABILIZATION. FOR WINTER STABILIZATION, HAY MULCH IS APPLIED AT TWICE THE STANDARD TEMPORARY STABILIZATION RATE. AT THE END OF EACH CONSTRUCTION DAY, AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE STABILIZED. MULCH MAY NOT BE SPREAD ON TOP OF SNOW.

1.7.2 SEDIMENT BARRIERS. ALL AREAS WITHIN 75 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF SEDIMENT BARRIERS.

1.7.3 DITCH. ALL VEGETATED DITCH LINES THAT HAVE NOT BEEN STABILIZED BY NOVEMBER 1, OR WILL BE WORKED DURING THE WINTER CONSTRUCTION PERIOD, MUST BE STABILIZED WITH AN APPROPRIATE STONE LINING BACKED BY AN APPROPRIATE GRAVEL BED OR GEOTEXTILE UNLESS SPECIFICALLY RELEASED FROM THIS STANDARD BY THE DEPARTMENT.

1.7.4 SLOPES. MULCH NETTING MUST BE USED TO ANCHOR MULCH ON ALL SLOPES GREATER THAN 8% UNLESS EROSION CONTROL BLANKETS OR EROSION CONTROL MIX IS BEING USED ON THESE SLOPES.

1.8 STORMWATER CHANNELS. DITCHES, SWALES, AND OTHER OPEN STORMWATER CHANNELS MUST BE DESIGNED, CONSTRUCTED, AND STABILIZED USING MEASURES THAT ACHIEVE LONG–TERM EROSION CONTROL. DITCHES, SWALES AND OTHER OPEN STORMWATER CHANNELS MUST BE SIZED TO HANDLE, AT A MINIMUM, THE EXPECTED VOLUME RUN–OFF. EACH CHANNEL SHOULD BE CONSTRUCTED IN SECTIONS SO THAT THE SECTION'S GRADING, SHAPING, AND INSTALLATION OF THE PERMANENT LINING CAN BE COMPLETED THE SAME DAY. IF A CHANNEL'S FINAL GRADING OR LINING INSTALLATION MUST BE DELAYED, THEN DIVERSION BERMS MUST BE USED TO DIVERT STORMWATER AWAY FROM THE CHANNEL. PROPERLY–SPACED CHECK DAMS MUST BE INSTALLED IN THE CHANNEL TO SLOW THE WATER VELOCITY, AND A TEMPORARY LINING INSTALLED ALONG THE CHANNEL TO PREVENT SCOURING. PERMANENT STABILIZATION FOR CHANNELS IS ADDRESSED UNDER SECTION 1.6.7 ABOVE.

1.8.1 THE CHANNEL SHOULD RECEIVE ADEQUATE ROUTINE MAINTENANCE TO MAINTAIN CAPACITY AND PREVENT OR CORRECT ANY EROSION OF THE CHANNEL'S BOTTOM OR SIDE SLOPES.

1.8.2 WHEN THE WATERSHED DRAINING TO A DITCH OR SWALE IS LESS THAN 1 ACRE OF TOTAL DRAINAGE AND LESS THAN ¼ ACRE OF IMPERVIOUS AREA, DIVERSION OF RUNOFF TO ADJACENT WOODED OR OTHERWISE VEGETATED BUFFER AREAS IS ENCOURAGED WHERE THE OPPORTUNITY EXISTS.

1.9 SEDIMENT BASINS. SEDIMENT BASINS MUST BE DESIGNED TO PROVIDE STORAGE FOR EITHER THE CALCULATED RUNOFF FROM A 2–YEAR, 24–HOUR STORM OR PROVIDE FOR 3,600 CUBIC FEET OF CAPACITY PER ACRE DRAINING TO THE BASIN. OUTLET STRUCTURES MUST DISCHARGE WATER FROM THE SURFACE OF THE BASIN WHENEVER POSSIBLE. EROSION CONTROLS AND VELOCITY DISSIPATION DEVICES MUST BE USED IF THE DISCHARGING WATERS ARE LIKELY TO CREATE EROSION. ACCUMULATED SEDIMENT MUST BE REMOVED AS NEEDED FROM THE BASIN TO MAINTAIN AT LEAST ½ OF THE DESIGN CAPACITY OF THE BASIN. THE USE OF CATIONIC TREATMENT CHEMICALS, SUCH AS POLYMERS, FLOCCULANTS, OR OTHER CHEMICALS THAT CONTAIN AN OVERALL POSITIVE CHARGE DESIGNED TO REDUCE TURBIDITY IN STORMWATER MUST RECEIVE PRIOR APPROVAL FROM THE DEPARTMENT. WHEN REQUESTING APPROVAL TO USE CATIONIC TREATMENT CHEMICALS, YOU MUST DESCRIBE APPROPRIATE DOSAGES AND IMPLEMENTATION PROCEDURES TO ENSURE THE USE WILL NOT LEAD TO A VIOLATION OF WATER QUALITY STANDARDS. IN ADDITION, YOU MUST SPECIFY THE TYPE(S) OF SOIL LIKELY TO BE TREATED ON THE SITE, CHEMICALS TO BE USED AND HOW THEY ARE TO BE APPLIED AND IN WHAT QUANTITY, ANY MANUFACTURER'S RECOMMENDATIONS, AND ANY TRAINING HAD BY PERSONNEL WHO WILL HANDLE AND APPLY THE CHEMICALS.

1.10 ROADS. GRAVEL AND PAVED ROADS MUST BE DESIGNED AND CONSTRUCTED WITH CROWNS OR OTHER MEASURES, SUCH AS WATER BARS, TO ENSURE THAT STORMWATER IS DELIVERED IMMEDIATELY TO ADJACENT STABLE DITCHES, VEGETATED BUFFER AREAS, CATCH BASIN INLETS, OR STREET GUTTERS.

1.11 CULVERTS. CULVERTS MUST BE SIZED TO AVOID UNINTENDED FLOODING OF UPSTREAM AREAS OR FREQUENT OVERTOPPING OF ROADWAYS. CULVERT INLETS MUST BE PROTECTED WITH APPROPRIATE MATERIALS FOR THE EXPECTED ENTRANCE VELOCITY, AND PROTECTION MUST EXTEND AT LEAST AS HIGH AS THE EXPECTED MAXIMUM ELEVATION OF STORAGE BEHIND THE CULVERT. CULVERT OUTLET DESIGN MUST INCORPORATE MEASURES, SUCH AS APRONS, TO PREVENT SCOUR OF THE STREAM CHANNEL. OUTLET PROTECTION MEASURES MUST BE DESIGNED TO STAY WITHIN THE CHANNEL LIMITS. THE DESIGN MUST TAKE ACCOUNT OF TAILWATER DEPTH.

1.12 PARKING AREAS. PARKING AREAS MUST BE CONSTRUCTED TO ENSURE RUNOFF IS DELIVERED TO ADJACENT SWALES, CATCH BASINS, CURB GUTTERS, OR BUFFER AREAS WITHOUT ERODING AREAS DOWNSLOPE. THE PARKING AREA'S SUBBASE COMPACTION AND GRADING MUST BE DONE TO ENSURE RUNOFF IS EVENLY DISTRIBUTED TO ADJACENT BUFFERS OR SIDE SLOPES. CATCH BASINS MUST BE LOCATED AND SET TO PROVIDE ENOUGH STORAGE DEPTH AT THE INLET TO ALLOW INFLOW OF PEAK RUNOFF RATES WITHOUT BY–PASS OF RUNOFF TO OTHER AREAS.

2 INSPECTION AND MAINTENANCE

2.1 DURING CONSTRUCTION. THE FOLLOWING STANDARDS MUST BE MET DURING CONSTRUCTION.

2.1.1 INSPECTION AND CORRECTIVE ACTION. INSPECT DISTURBED AND IMPERVIOUS AREAS, EROSION CONTROL MEASURES, MATERIALS STORAGE AREAS THAT ARE EXPOSED TO PRECIPITATION, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. INSPECT THESE AREAS AT LEAST ONCE A WEEK AS WELL AS BEFORE AND WITHIN 24 HOURS AFTER A STORM EVENT (RAINFALL), AND PRIOR TO COMPLETING PERMANENT STABILIZATION MEASURES. A PERSON WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROL, INCLUDING THE STANDARDS AND CONDITIONS IN THE PERMIT, SHALL CONDUCT THE INSPECTIONS.

2.1.2 MAINTENANCE. IF BEST MANAGEMENT PRACTICES (BMPS) NEED TO BE REPAIRED, THE REPAIR WORK SHOULD BE INITIATED UPON DISCOVERY OF THE PROBLEM BUT NO LATER THAN THE END OF THE NEXT WORKDAY. IF ADDITIONAL BMPS OR SIGNIFICANT REPAIR OF BMPS ARE NECESSARY, IMPLEMENTATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS AND PRIOR TO ANY STORM EVENT (RAINFALL). ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION UNTIL AREAS ARE PERMANENTLY STABILIZED.

2.1.3 DOCUMENTATION. KEEP A LOG (REPORT) SUMMARIZING THE INSPECTIONS AND ANY CORRECTIVE ACTION TAKEN. THE LOG MUST INCLUDE THE NAME(S) AND QUALIFICATIONS OF THE PERSON MAKING THE INSPECTIONS, THE DATE(S) OF THE INSPECTIONS, AND MAJOR OBSERVATIONS ABOUT THE OPERATION AND MAINTENANCE OF EROSION AND SEDIMENTATION CONTROLS, MATERIALS STORAGE AREAS, AND VEHICLES ACCESS POINTS TO THE PARCEL. MAJOR OBSERVATIONS MUST INCLUDE BMPS THAT NEED MAINTENANCE, BMPS THAT FAILED TO OPERATE AS DESIGNED OR PROVED INADEQUATE FOR A PARTICULAR LOCATION, AND LOCATION(S) WHERE ADDITIONAL BMPS ARE NEEDED. FOR EACH BMP REQUIRING MAINTENANCE, BMP NEEDED REPLACEMENT, AND LOCATION NEEDING ADDITIONAL BMPS, NOTE IN THE LOG THE CORRECTIVE ACTION TAKEN AND WHEN IT WAS TAKEN. THE LOG MUST BE MADE ACCESSIBLE TO DEPARTMENT STAFF AND A COPY MUST BE PROVIDED UPON REQUEST. THE PERMITTEE SHALL RETAIN A COPY OF THE LOG FOR A PERIOD OF AT LEAST THREE YEARS FROM THE COMPLETION OF PERMANENT STABILIZATION.

2.2 POST–CONSTRUCTION. THE FOLLOWING STANDARDS MUST BE MET AFTER CONSTRUCTION.

2.2.1 PLAN. CARRY OUT AN APPROVED INSPECTION AND MAINTENANCE PLAN THAT IS CONSISTENT WITH THE MINIMUM REQUIREMENTS OF THIS SECTION. THE PLAN MUST ADDRESS INSPECTION AND MAINTENANCE OF THE PROJECT'S PERMANENT EROSION CONTROL MEASURES AND STORMWATER MANAGEMENT SYSTEM.

2.2.2 INSPECTION AND MAINTENANCE. ALL MEASURES MUST BE MAINTAINED IN EFFECTIVE OPERATING CONDITION. A PERSON WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROL, INCLUDING THE STANDARDS AND CONDITIONS IN THE PERMIT, SHALL CONDUCT THE INSPECTIONS. THE FOLLOWING AREAS, FACILITIES, AND MEASURES MUST BE INSPECTED AND IDENTIFIED DEFICIENCIES MUST BE CORRECTED. AREAS, FACILITIES, AND MEASURES OTHER THAN THOSE LISTED BELOW MAY ALSO REQUIRE INSPECTION ON A SPECIFIC SITE. INSPECTION OR MAINTENANCE TASKS OTHER THAN THOSE DISCUSSED BELOW MUST BE INCLUDED IN THE MAINTENANCE PLAN DEVELOPED FOR A SPECIFIC SITE.

2.2.2.1 INSPECT VEGETATED AREAS, PARTICUALRLY SLOPES AND EMBANKMENTS. EARLY IN THE GROWING SEASON OR AFTER HEAVY RAINS TO IDENTIFY ACTIVE OR POTENTIAL EROSION PROBLEMS. REPLANT BARE AREAS OR AREAS WITH SPARSE GROWTH. WHERE RILL EROSION IS EVIDENT, ARMOR THE AREA WITH AN APPROPRIATE LINING OR DIVERT THE EROSIVE FLOWS TO ON–SITE AREAS ABLE TO WITHSTAND THE CONCENTRATED FLOWS. SEE PERMANENT STABILIZATION STANDARDS IN SECTION 1.6.

2.2.2.2 INSPECT DITCHES, SWALES AND OTHER OPEN STORMWATER CHANNELS IN THE SPRING, IN LATE FALL, AND AFTER HEAVY RAINS TO REMOVE ANY OBSTRUCTIONS TO FLOW, REMOVE ACCUMULATED SEDIMENTS AND DEBRIS, TO CONTROL VEGETATED GROWTH THAT COULD OBSTRUCT FLOW, AND TO REPAIR ANY EROSION OF THE DITCH LINING. VEGETATED DITCHES MUST BE MOWED AT LEAST ANNUALLY OR OTHERWISE MAINTAINED TO CONTROL THE GROWTH OF WOODY VEGETATION AND MAINTAIN FLOW CAPACITY. ANY WOODY VEGETATION GROWING THROUGH RIPRAP LININGS MUST ALSO BE REMOVED. REPAIR ANY SLUMPING SIDE SLOPES AS SOON AS PRACTICABLE. IF THE DITCH HAS A RIPRAP LINING, REPLACE RIPRAP ON AREAS WHERE ANY UNDERLYING FILTER FABRIC OR UNDERDRAIN GRAVEL IS SHOWING THROUGH THE STONE OR WHERE STONES HAVE DISLODGED. THE CHANNEL MUST RECEIVE ADEQUATE ROUTINE MAINTENANCE TO MAINTAIN CAPACITY AND PREVENT OR CORRECT ANY EROSION OF THE CHANNEL'S BOTTOM OR SIDESLOPES.

2.2.2.3 INSPECT CULVERTS IN THE SPRING, IN LATE FALL, AND AFTER HEAVY RAINS TO REMOVE ANY OBSTRUCTIONS TO FLOW; REMOVE ACCUMULATED SEDIMENTS AND DEBRIS AT THE INLET, AT THE OUTLET, AND WITHIN THE CONDUIT; AND TO REPAIR ANY EROSION DAMAGE AT THE CULVERT'S INLET AND OUTLET.

2.2.2.4 INSPECT AND CLEAN OUT CATCH BASINS. CLEAN–OUT MUST INCLUDE THE REMOVAL AND LEGAL DISPOSAL OF ANY ACCUMULATED SEDIMENTS AND DEBRIS AT THE BOTTOM OF THE BASIN, AT ANY INLET GRATES, AT ANY INFLOW CHANNELS TO THE BASIN, AND AT ANY PIPES BETWEEN BASINS. IF THE BASIN OUTLET IS DESIGNED TO TRAP FLOATABLE MATERIALS, THEN REMOVE THE FLOATING DEBRIS AND ANY FLOATING OILS (USING OIL–ABSORPTIVE PADS).

2.2.2.5 INSPECT RESOURCE AND TREATMENT BUFFERS ONCE A YEAR FOR EVIDENCE OF EROSION, CONCENTRATING FLOW, AND ENCROACHMENT BY DEVELOPMENT. IF FLOWS ARE CONCENTRATING WITHIN A BUFFER, SITE GRADING, LEVEL SPREADERS, OR DITCH TURN–OUTS MUST BE USED TO ENSURE A MORE EVEN DISTRIBUTION OF FLOW INTO A BUFFER. CHECK DOWN SLOPE OF ALL SPREADERS AND TURN–OUTS FOR EROSION. IF EROSION IS PRESENT, ADJUST OR MODIFY THE SPREADER'S OR TURNOUT'S LIP TO ENSURE A BETTER DISTRIBUTION OF FLOW INTO A BUFFER. CLEAN–OUT ANY ACCUMULATION OF SEDIMENT WITHIN THE SPREADER BAYS OR TURN–OUT POOLS.

2.2.2.6 INSPECT AT LEAST ONCE PER YEAR, EACH STORMWATER MANAGEMENT POND OR BASIN, INCLUDING THE POND'S EMBANKMENTS, OUTLET STRUCTURE, AND EMERGENCY SPILLWAY. REMOVE AND DISPOSE OF ACCUMULATED SEDIMENTS IN THE POND. CONTROL WOODY VEGETATION ON THE POND'S EMBANKMENTS.

2.2.2.7 INSPECT AT LEAST ONE PER YEAR, EACH UNDERDRAINED FILTER, INCLUDING THE FILTER EMBANKMENTS, VEGETATION, UNDERDRAIN PIPING, AND OVERFLOW SPILLWAY. REMOVE AND DISPOSE OF ACCUMULATED SEDIMENTS IN THE FILTER. IF NEEDED, REHABILITATE ANY CLOGGED SURFACE LININGS, AND FLUSH UNDERDRAIN PIPING.

2.2.2.8 INSPECT EACH MANUFACTURED SYSTEM INSTALLED ON THE SITE, INCLUDING THE SYSTEM'S INLET, TREATMENT CHAMBER(S), AND OUTLET AT LEAST ONCE PER YEAR, OR IN ACCORDANCE WITH THE MAINTENANCE GUIDELINES RECOMMENDED BY THE MANUFACTURER BASED ON THE ESTIMATED RUNOFF AND POLLUTANT LOAD EXPECTED TO THE SYSTEM FROM THE PROJECT. REMOVE AND DISPOSE OF ACCUMULATED SEDIMENTS, DEBRIS, AND CONTAMINATED WATERS FROM THE SYSTEM AND, IF APPLICABLE, REMOVE AND REPLACE ANY CLOGGED OR SPENT FILTER MEDIA.

2.2.3 REGULAR MAINTENANCE

2.2.3.1 CLEAR ACCUMULATIONS OF WINTER SAND IN PARKING LOTS AND ALONG ROADWAYS AT LEAST ONCE A YEAR, PREFERABLY IN THE SPRING. ACCUMULATIONS ON PAVEMENT MAY BE REMOVED BY PAVEMENT SWEEPING. ACCUMULATIONS OF SAND ALONG ROAD SHOULDERS MAY BE REMOVED BY GRADING EXCESS SAND TO THE PAVEMENT EDGE AND REMOVING IT MANUALLY OR BY A FRONT–END LOADER. GRADING OF GRAVEL ROADS, OR GRADING OF THE GRAVEL SHOULDERS OF GRAVEL OR PAVED ROADS, MUST BE ROUTINELY PERFORMED TO ENSURE THAT STORMWATER DRAINS IMMEDIATELY OFF THE ROAD SURFACE TO ADJACENT BUFFER AREAS OR STABLE DITCHES, AND IS NOT IMPEDED BY ACCUMULATIONS OF GRADED MATERIAL ON THE ROAD SHOULDER OR BY EXCAVATION OF FALSE DITCHES IN THE SHOULDER. IF WATER BARS OR OPEN–TOP CULVERTS ARE USED TO DIVERT RUNOFF FROM ROAD SURFACES, CLEAN–OUT ANY SEDIMENTS WITHIN OR AT THE OUTLET OF THESE STRUCTURES TO RESTORE THEIR FUNCTION.

2.2.3.2 MANAGE EACH BUFFER'S VEGETATION CONSISTENTLY WITH THE REQUIREMENTS IN ANY DEED RESTRICTIONS FOR THE BUFFER. WOODED BUFFERS MUST REMAIN FULLY WOODED AND HAVE NO DISTURBANCE TO THE DUFF LAYER. VEGETATION IN NON–WOODED BUFFERS MAY NOT BE CUT MORE THAN THREE TIMES PER YEAR, AND MAY NOT BE CUT SHORTER THAN SIX INCHES.

2.2.4 DOCUMENTATION. KEEP A LOG (REPORT) SUMMARIZING INSPECTIONS, MAINTENANCE, AND ANY CORRECTIVE ACTIONS TAKEN. THE LOG MUST INCLUDE THE DATE ON WHICH EACH INSPECTION OR MAINTENANCE TASK WAS PERFORMED, A DESCRIPTION OF THE INSPECTION FINDINGS OR MAINTENANCE COMPLETED, AND THE NAME OF THE INSPECTOR AND MAINTENANCE PERSONNEL PERFORMING THE TASK. IF A MAINTENANCE TASK REQUIRES THE CLEAN–OUT OF ANY SEDIMENTS OR DEBRIS, INDICATE WHERE THE SEDIMENT AND DEBRIS WAS DISPOSED AFTER REMOVAL. THE LOG MUST BE MADE ACCESSIBLE TO DEPARTMENT STAFF AND A COPY PROVIDED TO THE DEPARTMENT UPON REQUEST. THE PERMITTEE SHALL RETAIN A COPY OF THE LOG FOR A PERIOD OF AT LEAST FIVE YEARS FROM THE COMPLETION OF PERMANENT STABILIZATION.

2.3 RE–CERTIFICATION. SUBMIT A CERTIFICATION OF THE FOLLOWING TO THE DEPARTMENT WITHIN THREE MONTHS OF THE EXPIRATION OF EACH FIVE–YEAR INTERVAL FROM THE DATE OF ISSUANCE OF THE PERMIT.

2.3.1 IDENTIFICATION AND REPAIR OF EROSION PROBLEMS. ALL AREAS OF THE PROJECT SITE HAVE BEEN INSPECTED FOR AREAS OF EROSION, AND APPROPRIATE STEPS HAVE BEEN TAKEN TO PERMANENTLY STABILIZE THESE AREAS.

2.3.2 INSPECTION AND REPAIR OF STORMWATER CONTROL SYSTEM. ALL ASPECTS OF THE STORMWATER CONTROL SYSTEM HAVE BEEN INSPECTED FOR DAMAGE, WEAR, AND MALFUNCTION, AND APPROPRIATE STEPS HAVE BEEN TAKEN TO REPAIR OR REPLACE THE SYSTEM, OR PORTIONS OF THE SYSTEM.

2.3.3 MAINTENANCE. THE EROSION AND STORMWATER MAINTENANCE PLAN FOR THE SITE IS BEING IMPLEMENTED AS WRITTEN, OR MODIFICATIONS TO THE PLAN HAVE BEEN SUBMITTED TO AND APPROVED BY THE DEPARTMENT, AND THE MAINTENANCE LOG IS BEING MAINTAINED.

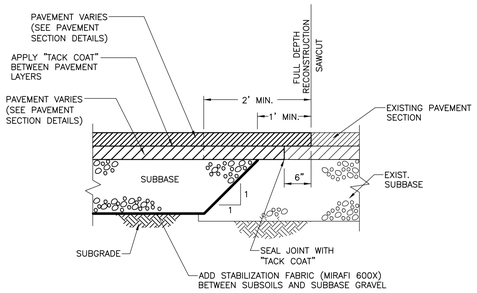
2.3.4 MUNICIPALITIES WITH SEPARATE STORM SEWER SYSTEMS REGULATED UNDER THE MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM (MPDES) PROGRAM AND REPORT ON ALL REGULATED SYSTEMS UNDER THEIR CONTROL AS PART OF THEIR REQUIRED ANNUAL REPORTING IN LIEU OF SEPARATE CERTIFICATION OF EACH SYSTEM. MUNICIPALITIES NOT REGULATED BY THE MPDES PROGRAM, BUT THAT ARE RESPONSIBLE FOR MAINTENANCE OF PERMITTED STORMWATER SYSTEMS, MAY REPORT ON MULTIPLE STORMWATER SYSTEMS IN ONE REPORT.

2.4 DURATION OF MAINTENANCE. PERFORM MAINTENANCE AS DESCRIBED AND REQUIRED IN THE PERMIT UNLESS AND UNTIL THE SYSTEM IS FORMALLY ACCEPTED BY THE MUNICIPALITY OR QUASI–MUNICIPAL DISTRICT, OR IS PLACED UNDER THE JURISDICTION OF A LEGALLY CREATED ASSOCIATION THAT WILL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SYSTEM. IF A MUNICIPALITY OR QUASI–MUNICIPAL DISTRICT CHOOSES TO ACCEPT A STORMWATER MANAGEMENT SYSTEM, OR A COMPONENT OF A STORMWATER SYSTEM, IT MUST PROVIDE A LETTER TO THE DEPARTMENT STATING THAT IT ASSUMES RESPONSIBILITY FOR THE SYSTEM. THE LETTER MUST SPECIFY THE COMPONENTS OF THE SYSTEM FOR WHICH THE MUNICIPALITY OR DISTRICT WILL ASSUME RESPONSIBILITY, AND THAT THE MUNICIPALITY OR DISTRICT AGREES TO MAINTAIN THOSE COMPONENTS OF THE SYSTEM IN COMPLIANCE WITH DEPARTMENT STANDARDS. UPON SUCH ASSUMPTION OF RESPONSIBILITY, AND APPROVAL BY THE DEPARTMENT, THE MUNICIPALITY, QUASI–MUNICIPAL DISTRICT, OR ASSOCIATION BECOMES A CO–PERMITTEE FOR THIS PURPOSE ONLY AND MUST COMPLY WITH ALL TERMS AND CONDITIONS OF THE PERMIT.

3 HOUSEKEEPING

3.1 SPILL PREVENTION. CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM CONSTRUCTION AND WASTE MATERIALS STORED ON SITE TO ENTER STORMWATER, WHICH INCLUDES STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER. THE SITE CONTRACTOR OR OPERATOR MUST DEVELOP, AND IMPLEMENT AS NECESSARY, APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING MEASURES.

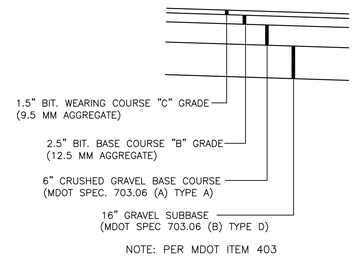
3.2 GROUNDWATER PROTECTION. DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL. DIKES, BERMS, SUMPS, AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS. ANY PROJECT PROPOSING INFILTRATION OF STORMWATER MUST PROVIDE ADEQUATE PRE–TREATMENT OF STORMWATER PRIOR TO DISCHARGE OF STORMWATER TO THE INFILTRATION AREA, OR PROVIDE FOR TREATMENT WITHIN THE INFILTRATION AREA, IN ORDER TO PREVENT THE ACCU




NOTE: PER MDOT ITEM 403

## SAWCUT & PAVEMENT MATCH DETAIL

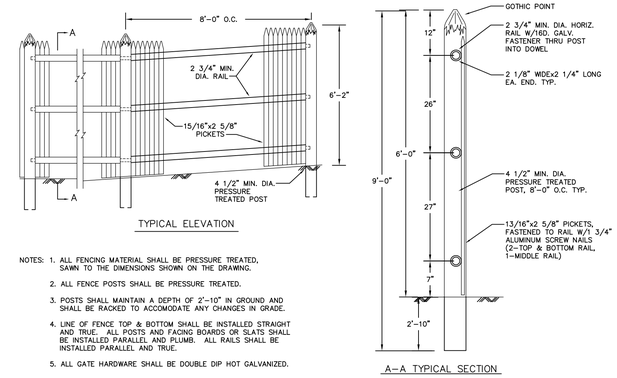
N.T.S.




NOTE: PER MDOT ITEM 403

## TYP. PAVEMENT SECTION (FULL DEPTH CONSTRUCTION)

NOT TO SCALE



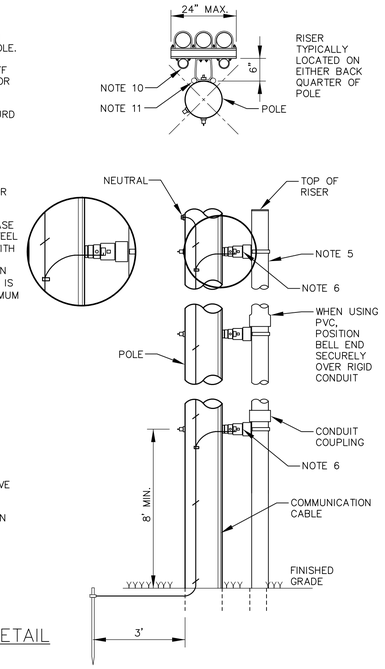

NOTES:
1. ALL FENCING MATERIAL SHALL BE PRESSURE TREATED, SAWN TO THE DIMENSIONS SHOWN ON THE DRAWING.
2. ALL FENCE POSTS SHALL BE PRESSURE TREATED.
3. POSTS SHALL MAINTAIN A DEPTH OF 2'-10" IN GROUND AND SHALL BE RACKED TO ACCOMODATE ANY CHANGES IN GRADE.
4. LINE OF FENCE TOP & BOTTOM SHALL BE INSTALLED STRAIGHT AND TRUE. ALL POSTS AND FACING BOARDS OR SLATS SHALL BE INSTALLED PARALLEL AND PLUMB. ALL RAILS SHALL BE INSTALLED PARALLEL AND TRUE.
5. ALL GATE HARDWARE SHALL BE DOUBLE DIP HOT GALVANIZED.

## STOCKADE FENCE DETAIL

N.T.S.

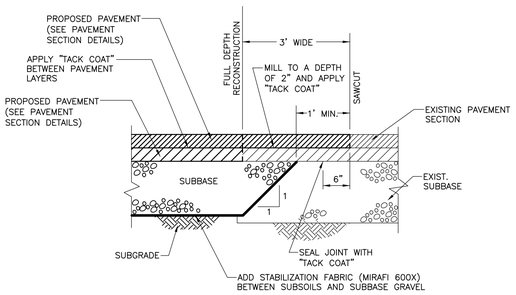
NOTES:

1. STAND OFF BRACKETS ARE REQUIRED WHEN MORE THAN ONE CONDUIT PER UTILITY IS TO BE INSTALLED ON A POLE.
2. ALL THREE PHASE PRIMARY RISERS, WHETHER STAND OFF BRACKETS ARE USED OR NOT, SHALL BE RIGID STEEL FOR THE FIRST SECTION.
3. ON SINGLE PHASE PRIMARY, SECONDARY AND SERVICE URD RISERS USING STAND OFF BRACKETS, RIGID STEEL OR SCHEDULE 80 MAY BE USED.
4. WHERE RIGID STEEL OR SCHEDULE 80 PVC IS USED FOR THE RISER, ONE BRACKET SHALL BE USED TO SUPPORT EACH SECTION OF CONDUIT UP TO 10 FEET IN LENGTH. EACH BRACKET IS TO BE PLACED JUST BELOW THE RISER CONDUIT COUPLING.
5. CONDUIT SECTIONS FOR A SINGLE PHASE OR THREE PHASE RISERS USING STAND OFF BRACKETS SHALL BE RIGID STEEL OR SCHEDULE 80 PVC CONDUIT ONLY (SEE NOTE #2), WITH THE EXCEPTION THAT SCHEDULE 40 PVC SUNLIGHT RESISTANT CONDUIT MAY BE USED FOR THE TOP SECTION OF THE RISER (NOT LONGER THAN 10'). IF TOP SECTION IS LONGER THAN 24" IT MUST BE SUPPORTED WITH A MINIMUM OF ONE STAND OFF BRACKET. IF TOP SECTION IS SCHEDULE 40 PVC AND LONGER THAN 72" IT MUST BE SUPPORTED BY NO FEWER THAN TWO STAND OFF BRACKETS.
6. WHERE PVC IS USED FOR THE RISER, EACH STAND OFF BRACKET SUPPORTING THE PVC SHALL BE GROUNDED. WHERE STEEL IS USED FOR THE RISER ONE STAND OFF BRACKET SUPPORTING THE STEEL IS REQUIRED TO BE GROUNDED.
7. SWEEPS, WHEN USED, ARE REQUIRED TO BE STEEL.
8. IF RISER IS ALL STEEL CONDUIT, INSTALL INSULATED GROUNDING BUSHING AT TOP OF RISER.
9. LOWEST BRACKET SHALL BE A MINIMUM OF 8 FEET ABOVE FINISHED GRADE.
10. ALTERNATE LOCATION FOR COMMUNICATION CABLE IF RUN IN METAL CONDUIT OR SCHEDULE 80.
11. COMMUNICATION CABLE MAY BE ATTACHED DIRECTLY TO POLE ADJACENT TO BRACKETS.




## TYPICAL RISER DETAIL

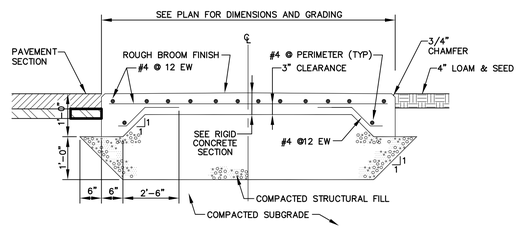
NOT TO SCALE




NOTE: PER MDOT ITEM 403

## SAWCUT & PAVEMENT MATCH DETAIL (AT DRIVEWAY ENTRANCE)

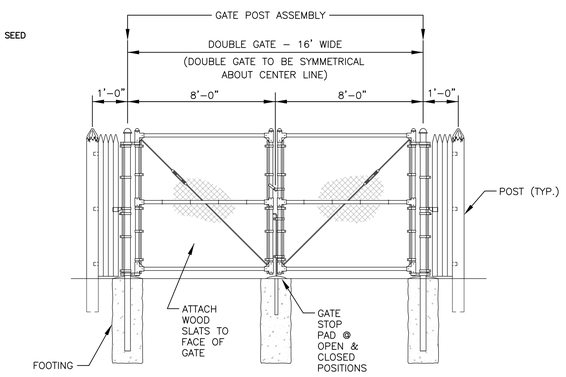
N.T.S.




SECTION

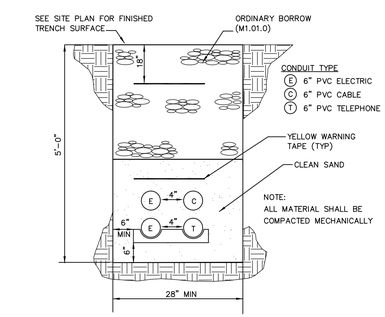
## DUMPSTER PAD DETAIL

NOT TO SCALE




## GATE

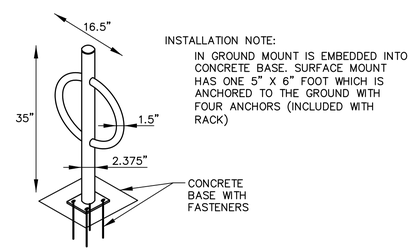
N.T.S.




ALL TRENCH CONDUITS SHALL BE SCHEDULE 40 PVC, UNLESS OTHERWISE NOTED

## COMMON TRENCH DETAIL 1Ø ELECTRIC/TELEPHONE/CABLE

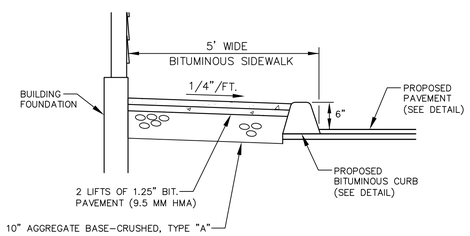
NOT TO SCALE




INSTALLATION NOTE:
IN GROUND MOUNT IS EMBEDDED INTO CONCRETE BASE. SURFACE MOUNT HAS ONE 5" X 6" FOOT WHICH IS ANCHORED TO THE GROUND WITH FOUR ANCHORS (INCLUDED WITH RACK)

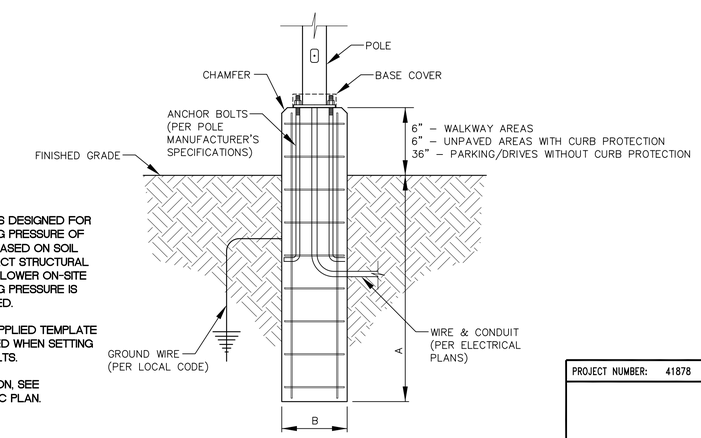
## BIKE RACK DETAIL

NOT TO SCALE




## BITUMINOUS SIDEWALK DETAIL

N.T.S.



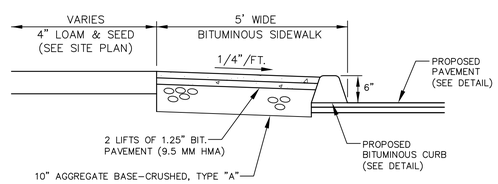

NOTES:

1. POLE BASE IS DESIGNED FOR SOIL BEARING PRESSURE OF 100 PSF/FT BASED ON SOIL TYPE. CONTACT STRUCTURAL ENGINEER IF LOWER ON-SITE SOIL BEARING PRESSURE IS ENCOUNTERED.
2. FACTORY SUPPLIED TEMPLATE MUST BE USED WHEN SETTING ANCHOR BOLTS.
3. FOR LOCATION, SEE PHOTOMETRIC PLAN.

| | | |
|---|---|---|
| A | EMBEDMENT DEPTH (BELOW GRADE) | 4'-6" |
| B | CONCRETE DIAMETER | 30" |

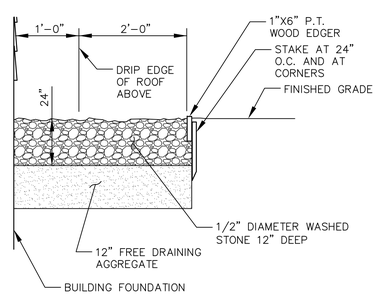
## LIGHT POLE BASE

NTS




## BITUMINOUS SIDEWALK DETAIL

N.T.S.




## STONE DRIP EDGE INFILTRATION DETAIL

NOT TO SCALE

THIS PLAN IS FOR REVIEW PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION OR RECORDING

| Revision: | By: | Date: | Change: |
|---|---|---|---|
| 3 | SMA | 3/16/20 | ADDED PROPANE TANKS |
| 2 | SMA | 1/6/20 | REVISED PER TOWN COMMENTS |
| 1 | SMA | 12/21/20 | SUBMITTED FOR TOWN REVIEW |

PROJECT NUMBER: 41878 | ACAD FILE: 41878-DETAILS.DWG | SCALE: AS NOTED | DATE: DECEMBER 21, 2020

Drawing Name:
CONSTRUCTION DETAILS – SHEET 1

Project Name:
FIELDING CONDOS
ROOSEVELT TRAIL, WINDHAM, MAINE

Owner/Applicant:
FIELDING'S OIL CO., INC.

STATE OF MAINE — Travis Latham 13920 — LICENSED PROFESSIONAL ENGINEER — 3-16-20

SHEET 8 OF 12


SURVEYING • ENGINEERING • LAND PLANNING
Northeast Civil Solutions
INCORPORATED
381 PAYNE ROAD, SCARBOROUGH, MAINE 04074
tel 207.883.1000 fax 207.883.1001
e-mail / website info@northeastcivilsolutions.com www.northeastcivilsolutions.com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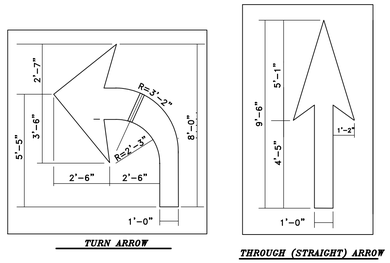
## TRAFFIC SIGNS

| IDENTIFICATION NUMBER | SIGN HEIGHT | SIGN WIDTH | POST PER SIGN | TEXT | NUMBER OF SIGNS REQ'D. | SIGN AREA SQ. FT. NOM. AREA | SIGN AREA SQ. FT. TOTAL AREA | REMARKS |
|---|---|---|---|---|---|---|---|---|
| R1-1 | 30" | 30" | 1 | STOP | 1 | 6.25 | 6.25 | PER MUTCD |
| R7-8 | 18" | 12" | 1 | RESERVED PARKING | 2 | 1.5 | 1.5 | PER MUTCD |
| R7-8b | 6" | 12" | 1 | VAN ACCESSIBLE | 1 | 0.5 | 0.5 | PER MUTCD |

NOTE: ALL SIGNS SHALL CONFORM TO MUTCD STANDARDS AND MDOT ITEM 645



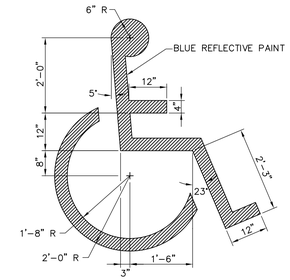

TURN ARROW

THROUGH (STRAIGHT) ARROW

NOTE: PER MDOT ITEM 627

## STRIPING ARROWS

N.T.S.




NOTE: PER MDOT ITEM 627

## HANDICAPPED PAINTING

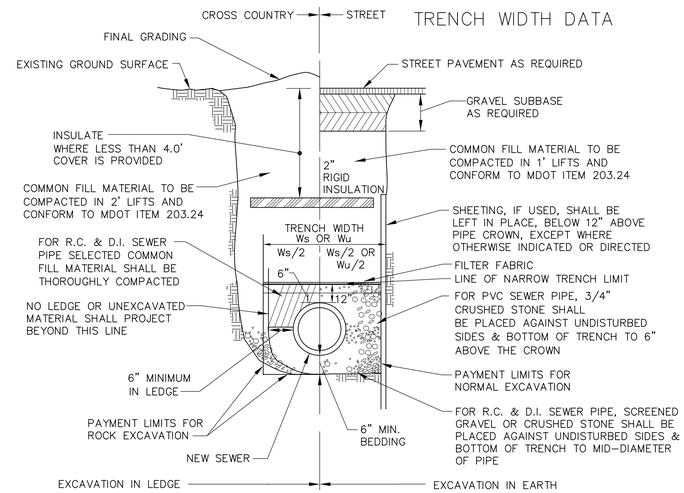
N.T.S.

NOTES:

1. TRENCHES LOCATED ON THE ROAD SHOULDER SHALL BE TREATED THE SAME AS STREET EXCEPT FOR PAVING
2. SATISFACTORY EXCAVATED MATERIAL CAN BE USED FOR BACKFILL ABOVE THE LINE OF NARROW TRENCH LIMIT.

| TRENCH WIDTH Ws OR Wu | | |
|---|---|---|
| DIAMETER OF PIPE D | Wu UNSHEETED | Ws SHEETED |
| 12" AND SMALLER | 3'-0" | 4'-2" |
| 15" | 3'-2" | 4'-4" |
| 18" | 3'-6" | 4'-8" |
| 21" | 3'-10" | 5'-0" |
| 24" | 4'-2" | 5'-4" |
| 27" | 4'-6" | 5'-8" |
| 30" | 4'-10" | 6'-0" |
| 36" | 5'-6" | 6'-8" |
| 42" | 6'-2" | 7'-4" |
| 48" | 6'-10" | 8'-0" |

## TRENCH WIDTH DATA

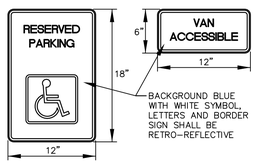



## SEWER TRENCH SECTION

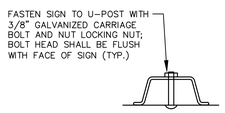
N. T. S.

## *PAVEMENT MARKING NOTES :*

1. ALL PAVEMENT MARKING WORDS AND SYMBOLS SHALL BE RETROREFLECTIVE WHITE AND SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES **MUTCD** AND MDOT ITEM 627.
2. WORDS AND SYMBOLS SHALL BE CENTERED LATERALLY WITHIN THE LANE. THE LONGITUDINAL DIMENSION SHALL BE PARALLEL TO THE LANE.
3. MULTI-WORD MESSAGES SHALL READ "UP"; THAT IS, THE FIRST WORD SHALL BE NEAREST THE APPROACHING DRIVER.
4. THE WORD "ONLY" SHALL NOT BE USED WITH THROUGH OR COMBINATION ARROWS, AND SHALL NOT BE USED ADJACENT TO A BROKEN LANE LINE. A TURN ARROW SHALL PRECEED THE WORD "ONLY".
5. COMBINATION ARROWS MAY BE COMPRISED OF 2 SINGLE ARROWS (e.g. TURN AND THROUGH ARROWS). HOWEVER, THE SHAFTS OF THE ARROWS SHALL COINCIDE.
6. PREFORMED TAPE WORDS AND SYMBOLS SHALL BE PRE-CUT, EITHER BY THE MANUFACTURER OR THE CONTRACTOR.
7. WRONG-WAY ARROWS SHALL NOT BE SUBSTITUTED FOR THROUGH ARROWS.
8. LONGITUDINAL SPACING BETWEEN SUCCESSIVE WORDS AND/OR SYMBOLS SHOULD BE AT LEAST 4 TIMES THE HEIGHT OF THE LARGEST CHARACTER.

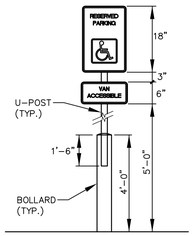



SIGNS



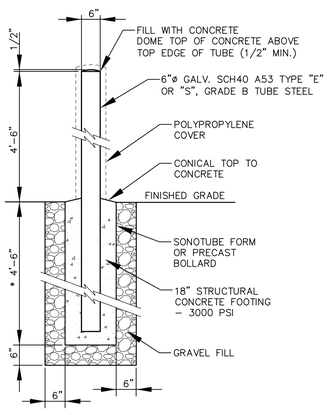

U-POST

MEMBER DESIGNATION = U6
MATERIAL: A.S.T.M. A-499
Fy = 50,000 PSI MIN.
GRADE = 50




ACCESSIBLE PARKING SIGN

NTS




NOTES:

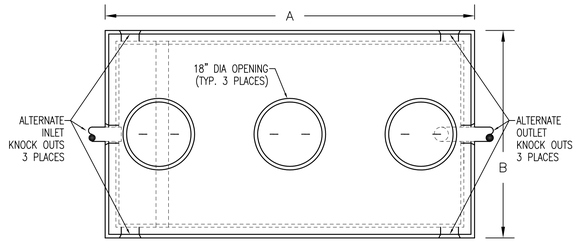
1. PLACE BOLLARDS AS SHOWN IN PLAN VIEW AND/OR ACCESSIBLE PARKING LAYOUT DETAIL.
2. BOLLARDS PLACED IN/AT DUMPSTER ENCLOSURE:
   A. INSIDE: 6' TO CENTERLINE FROM FENCE SIDES (2 BOLLARDS); 1.0' TO CENTERLINE FROM BACK OF FENCE
   B. OUTSIDE: AS SHOWN AT DETAIL (1 PER CORNER AT FRONT)

## BOLLARD DETAIL

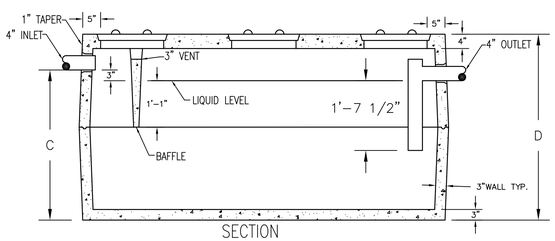
N.T.S.

## RESIDENTIAL SEPTIC TANKS

ITEM #A-10
WEIGHT - SEE CHART BELOW




TOP VIEW




SECTION

TANK TO BE HS-20 HEAVY DUTY TANK, SET RISERS & COVERS FLUSH WITH FINISHED GRADES

| LIQUID CAPACITY (GALLONS) | A | B | C | D | WEIGHT (LBS) | REGULAR ITEM # | HEAVY DUTY ITEM # |
|---|---|---|---|---|---|---|---|
| ~~750~~ | ~~8'-6"~~ | ~~4'-10"~~ | ~~42"~~ | ~~52"~~ | ~~7,400~~ | ~~A-1001~~ | ~~A-1001HD~~ |
| 1000 REG | 8'-6" | 4'-10" | 55 1/2" | 64" | 8,100 | A-1002 | A-1002HD |
| ~~1000 LB~~ | ~~10'-6"~~ | ~~6'-4"~~ | ~~37 1/2"~~ | ~~48"~~ | ~~10,500~~ | ~~A-1003~~ | ~~A-1003HD~~ |
| ~~1500~~ | ~~10'-6"~~ | ~~6'-4"~~ | ~~55 1/2"~~ | ~~64"~~ | ~~11,220~~ | ~~A-1004~~ | ~~A-1004HD~~ |
| ~~2000~~ | ~~10'-6"~~ | ~~6'-4"~~ | ~~65"~~ | ~~74"~~ | ~~12,250~~ | ~~A-1005~~ | ~~A-1005HD~~ |

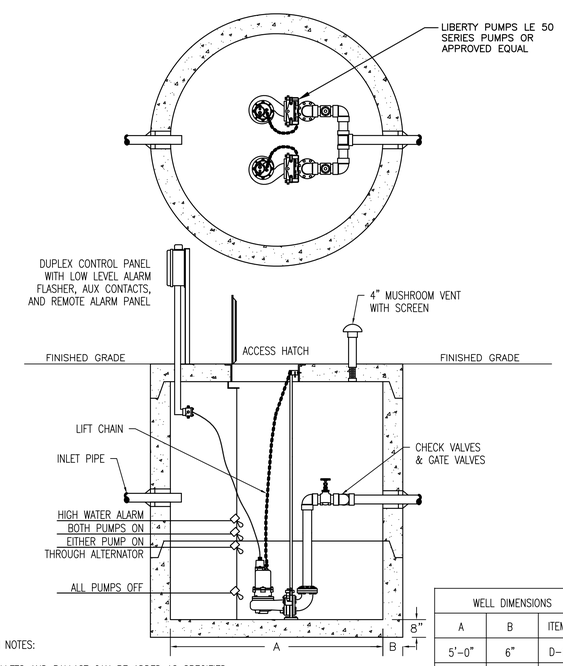
DESIGN NOTES:

1 - CONCRETE 4000 PSI AT 28 DAYS.
2 - INLET BAFFLE IS PRECAST AS ONE UNIT WITH THE TOP SECTION OF THE SEPTIC TANK.
3 - TANKS REINFORCED WITH 6X6X10 G.A. WIRE.
4 - KEYED JOINTS SEALED WITH ASPHALT SEALANT.
5 - HEAVY DUTY SEPTIC TANK TOPS REINFORCED WITH 1/2" REBAR ON 6" CENTERS EACH WAY.
6 - OUTLET FILTERS AVAILABLE.

PRECAST CONCRETE PRODUCTS OF MAINE, INC. PHONE (207) 729-1628 FAX (207) 729-8710

## DUPLEX PUMP STATION

ITEM #D-2
WEIGHT - VARIES BECAUSE OF SIZE AND HEIGHT




DESIGN NOTES:

1 - FILLETS AND BALLAST CAN BE ADDED AS SPECIFIED.
2 - STEPS CAN BE ADDED FOR EASY ACCESS.
3 - ALL PUMP TANK AND VALVE PIT EQUIPMENT CAN BE PROVIDED AS SPECIFIED.
4 - FLOAT HEIGHT VARIES.

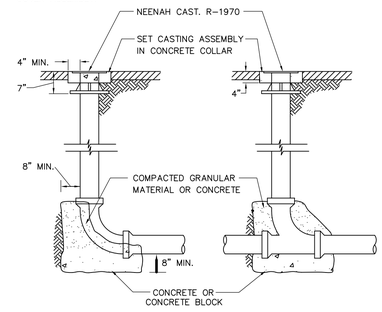
| WELL DIMENSIONS | | |
|---|---|---|
| A | B | ITEM # |
| 5'-0" | 6" | D-101 |
| ~~6'-0"~~ | ~~7"~~ | ~~D-102~~ |
| ~~8'-0"~~ | ~~9"~~ | ~~D-103~~ |

PRECAST CONCRETE PRODUCTS OF MAINE, INC. PHONE (207) 729-1628 FAX (207) 729-8710

## SEWER PUMP STATION

N. T. S.

NOTE:
CLEANOUT TOP SHALL BE ENCLOSED IN CASTING AND/OR FABRICATED COVER ASSEMBLY.




END OF LINE CLEANOUT

IN LINE CLEANOUT

## SEWER CLEANOUT DETAIL

N.T.S.

**THIS PLAN IS FOR REVIEW PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION OR RECORDING**

| Revision: | By: | Date: | Change: |
|---|---|---|---|
| 3 | SMA | 3/16/20 | ADDED PROPANE TANKS |
| 2 | SMA | 1/6/20 | REVISED PER TOWN COMMENTS |
| 1 | SMA | 12/21/20 | SUBMITTED FOR TOWN REVIEW |

PROJECT NUMBER: 41878 | ACAD FILE: 41878-DETAILS.DWG | SCALE: AS NOTED | DATE: DECEMBER 21, 2020

Drawing Name:
CONSTRUCTION DETAILS - SHEET 2

Project Name:
FIELDING CONDOS
ROOSEVELT TRAIL, WINDHAM, MAINE

Owner/Applicant:
FIELDING'S OIL CO., INC.

STATE OF MAINE
Travis A. Lowe
13920
LICENSED PROFESSIONAL ENGINEER
3-16-20


SURVEYING • ENGINEERING • LAND PLANNING
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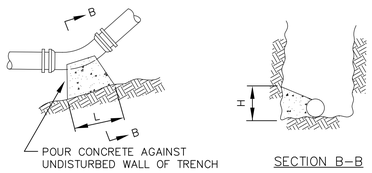
www.northeastcivilsolutions.com



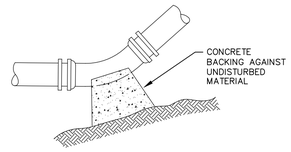

E:\LAND PROJECT\41000\41878 - FIELDING - WINDHAM\CAD\ASSET\41878-DETAILS.DWG



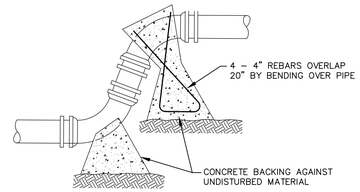

| BEARING AREAS – SQUARE FEET | | | | | |
|---|---|---|---|---|---|
| NOMINAL DIAMETER OF FITTING | FITTING | | | | |
| | DEAD END | BRANCH OF TEE | 90° BEND | 45° BEND | BEND SMALLER THAN 45° GREATER THAN 10° |
| 6" | 2 | 2 | 3 | 2 | 2 |
| 8" | 4 | 4 | 5 | 3 | 2 |
| 10" | 6 | 6 | 8 | 4 | 2 |
| 12" | 8 | 8 | 10 | 6 | 3 |
| 14" | 12 | 12 | 16 | 9 | 4 |
| 16" | 12 | 12 | 20 | 10 | 5 |

NOTES
1. ALL BENDS, TEE HYDRANTS AND DEAD ENDS SHALL BE BRACED WITH CONCRETE THRUST BLOCKS.
2. BEARING AREA IS AREA OF CONCRETE IN CONTACT WITH WALL OF TRENCH=HxL.
3. HEIGHT (H) AND LENGTH (L) AS REQUIRED TO OBTAIN BEARING AREA IN TABLE.

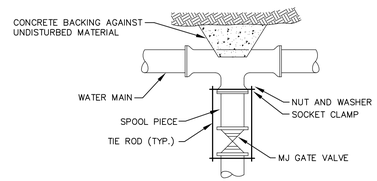
## THRUST BLOCK DETAILS
NOT TO SCALE



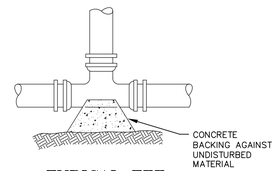

## TYPICAL BEND
NOT TO SCALE



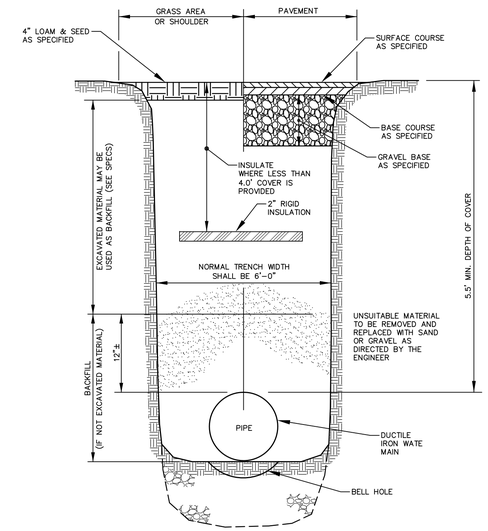

## TYPICAL OFF–SET
NOT TO SCALE



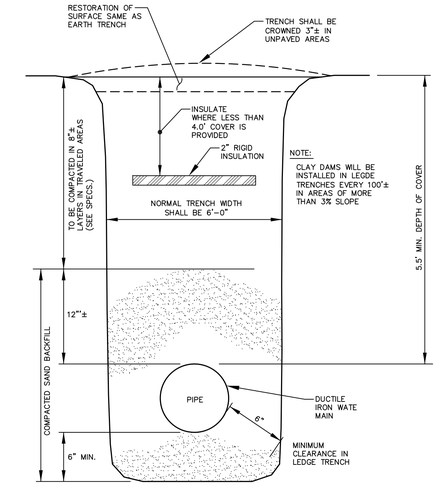

## TYPICAL VALVE CONNECTION
RESTRAINED JOINT TEE
NOT TO SCALE



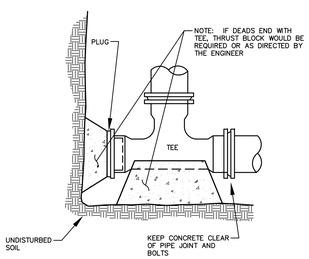

## TYPICAL TEE
NOT TO SCALE



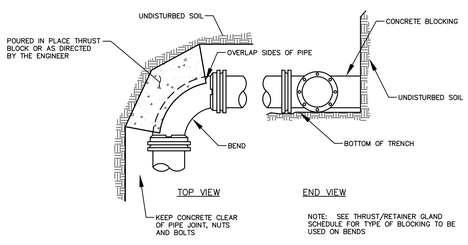

## SECTION THRU EARTH TRENCH
NOT TO SCALE



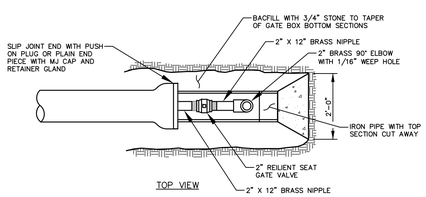

## SECTION THRU LEDGE TRENCH
NOT TO SCALE

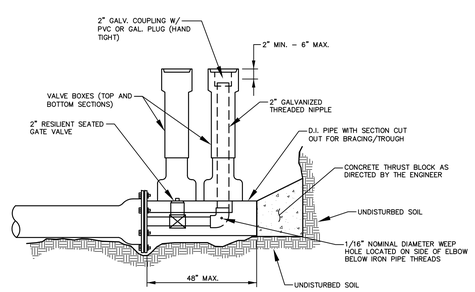



## STANDARD TEE BLOCKING
NOT TO SCALE

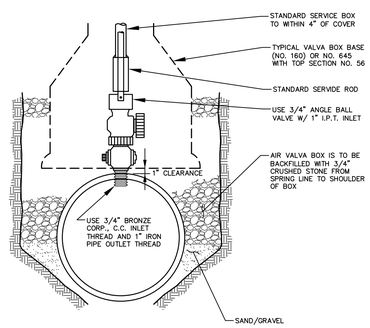



## STANDARD BEND BLOCKING
NOT TO SCALE



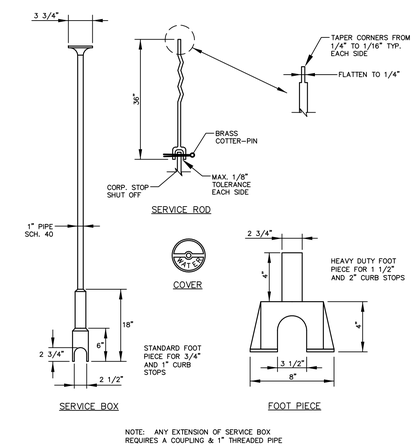



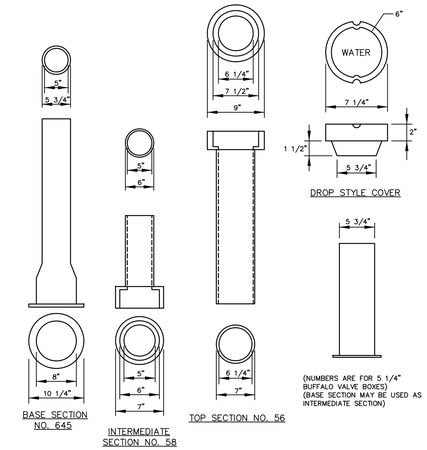

## STANDARD 2" BLOW OFF
NOT TO SCALE




## TYPICAL AIR VALVE (1")
NOT TO SCALE

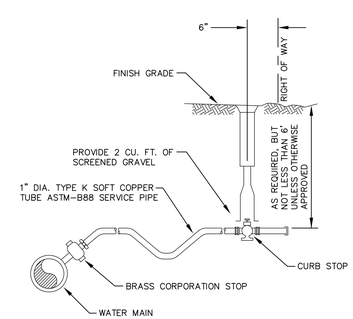
ALL WATER LINE WORK TO MEET PORTLAND WATER DISTRICT STANDARDS




## VALVE BOX & COVER
NOT TO SCALE

THIS PLAN IS FOR REVIEW PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION OR RECORDING




## TYPICAL WATER SERVICE CONNECTION
NOT TO SCALE

| Revision: | By: | Date: | Change: |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| 3 | SMA | 3/16/20 | ADDED PROPANE TANKS |
| 2 | SMA | 1/6/20 | REVISED PER TOWN COMMENTS |
| 1 | SMA | 12/21/20 | SUBMITTED FOR TOWN REVIEW |

| PROJECT NUMBER: 41878 | ACAD FILE: 41878-DETAILS.DWG | SCALE: AS NOTED | DATE: DECEMBER 21, 2020 |
|---|---|---|---|

Drawing Name:
CONSTRUCTION DETAILS – SHEET 3

Project Name:
FIELDING CONDOS
ROOSEVELT TRAIL, WINDHAM, MAINE

Owner/Applicant:
FIELDING'S OIL CO., INC.

STATE OF MAINE — Travis Lotellier — 17020 — LICENSED PROFESSIONAL ENGINEER — 3-16-20

SHEET 10 OF 12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www.northeastcivilsolutions.com


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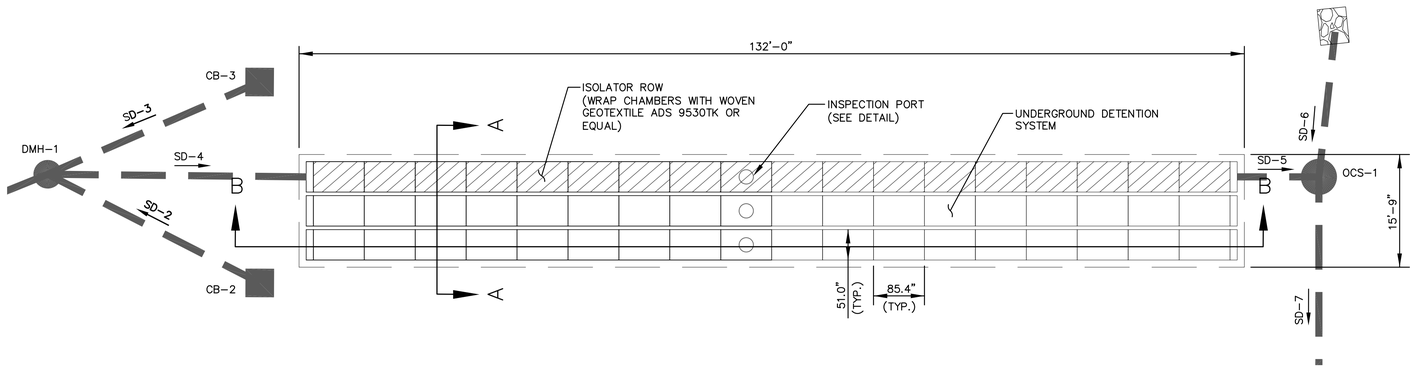



## STORMWATER TREATMENT SYSTEM

SCALE: 1" = 10'

NOTES:

1. MANHOLE FRAME AND GRATE SHALL BE DESIGNED TO WITHSTAND H-20 LOADING.
2. ACCESS LADDER WITH PRECAST DROP FRONT STEEL REINFORCED COPOLYMER RUNGS AT 12" O.C.
3. LeBARON STANDARD FRAME AND COVER SET IN MORTAR. CAT NO LK 110 SET ON TOP OF BRICK MASONRY AND SEALED WITH MORTAR. COVER TO BE SUPPLIED WITH 3" LETTERING TO READ "DRAIN".

TABLE 7-3
SAND FILTER MEDIA

| SIEVE SIZE | % BY WEIGHT |
|---|---|
| 3/8" | 100 |
| #4 | 95-100 |
| #8 | 80-100 |
| #16 | 50-85 |
| #30 | 25-60 |
| #60 | 10-30 |
| #100 | 2-10 |
| #200 | 0-5 (8-10% IS PREFERRED) |

MAINE DOT SPECIFICATION AGGREGATE MDOT #703.01

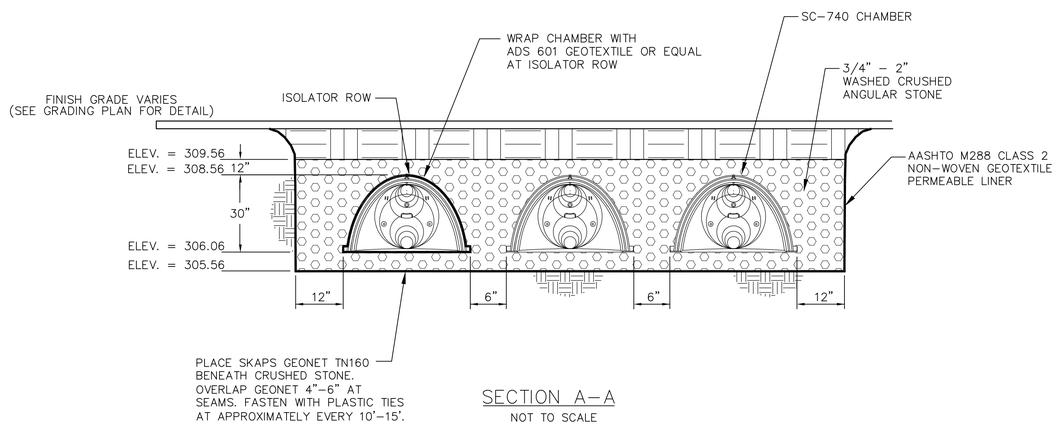
TABLE 7-1
ME DOT SPECIFICATIONS FOR UNDERDRAINS (ME DOT #703.22)

| SIEVE SIZE | % BY WEIGHT |
|---|---|
| UNDERDRAIN TYPE B | |
| 1" | 90-100 |
| 1/2" | 75-100 |
| #4 | 50-100 |
| #20 | 15-80 |
| #50 | 0-15 |
| #200 | 0-5 |
| UNDERDRAIN TYPE C | |
| 1" | 100 |
| 3/4" | 90-100 |
| 3/8" | 0-75 |
| #4 | 0-25 |
| #10 | 0-5 |

TYPE B COARSE GRAVEL SHALL HAVE NO MORE THAN 5% (PREFERABLY 2%) OF FINES PASSING THE #200 SIEVE

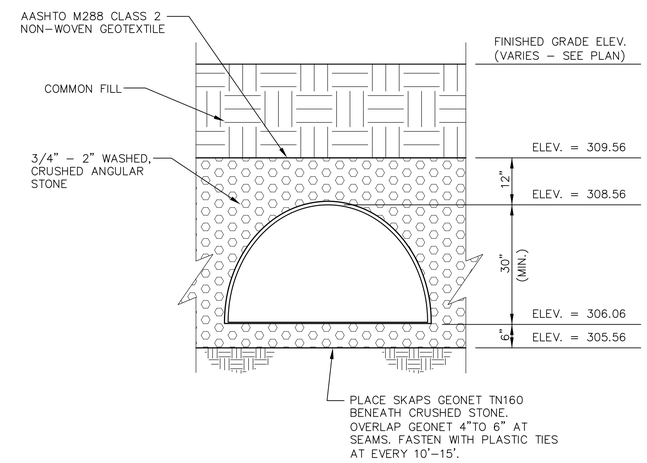
SAND FILTER SPECIFICATIONS:

1. SAND MATERIAL TO HAVE UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS OR OTHER OBJECTS LARGER THAN 2".
2. FILTER MEDIA SHALL CONSIST OF SILT/SAND LAYER WITH A FINES CONTENT OF 8% BUT NOT GREATER THAN 10% (I.E. 8%-10% PASSING #200 SIEVE)
3. DO NOT OVER COMPACT SAND MEDIA. PERMEABILITY OF FILTER WILL DECREASE IF OVER COMPACTED. ANTICIPATED LEVEL OF COMPACTION IS EQUAL TO 90-92% STANDARD PROCTOR.
4. MEDIA SHALL HAVE FILTRATION VELOCITY BETWEEN 2.5 AND 4.75 IN/HR SUCH THAT THE SYSTEM WILL DRAIN WITHIN 24-48 HOURS.



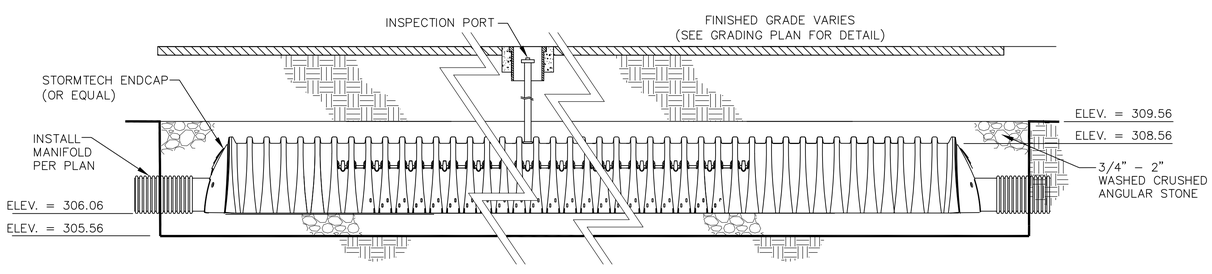

## SECTION A-A

NOT TO SCALE




## UNDERGROUND DETENTION CROSS SECTION

NOT TO SCALE




## SECTION B-B

NOT TO SCALE

**THIS PLAN IS FOR REVIEW PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION OR RECORDING**

| Revision: | By: | Date: | Change: |
|---|---|---|---|
| 3 | SMA | 3/16/20 | ADDED PROPANE TANKS |
| 2 | SMA | 1/6/20 | REVISED PER TOWN COMMENTS |
| 1 | SMA | 12/21/20 | SUBMITTED FOR TOWN REVIEW |

PROJECT NUMBER: 41878 | ACAD FILE: 41878-UG-DET.DWG | SCALE: AS NOTED | DATE: DECEMBER 21, 2020

Drawing Name:
UNDERGROUND DETENTION DETAILS - SHEET 1

Project Name:
FIELDING CONDOS
ROOSEVELT TRAIL, WINDHAM, MAINE

Owner/Applicant:
FIELDING'S OIL CO., INC.

STATE OF MAINE
Travis A. Letellier
13926
LICENSED PROFESSIONAL ENGINEER
3-16-20

SHEET 11 OF 12

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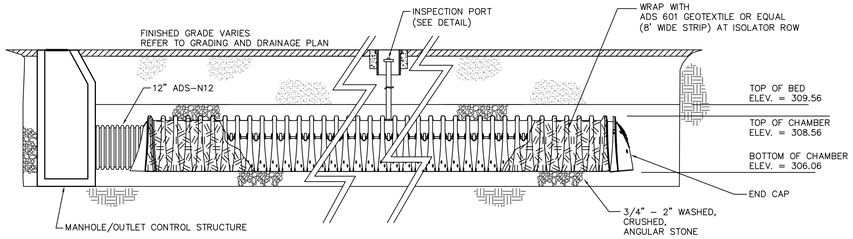
0 10' 20' 40'

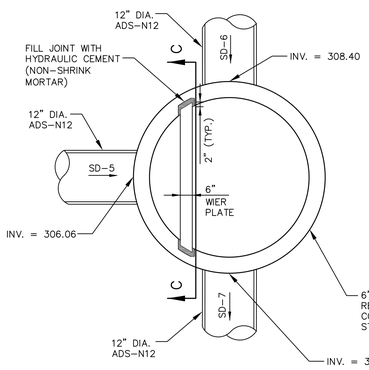
E:\LAND PROJECTS\41000\41878 - FIELDING - WINDHAM\PLANSET\41878-COVER.DWG




ISOLATOR ROW DETAIL

NOT TO SCALE

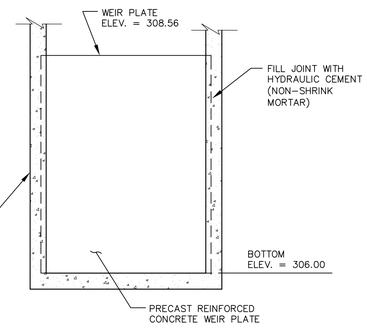
NOTES:
1. ALL DESIGN SPECIFICATIONS FOR STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE STORMTECH DESIGN MANUAL.
2. THE INSTALLATION OF STORMTECH CHAMBERS SHALL BE IN ACCORDANCE WITH THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.
3. THE CONTRACTOR IS ADVISED TO REVIEW AND UNDERSTAND THE INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION. CALL **1-888-892-2694** OR VISIT **WWW.STORMTECH.COM** TO RECEIVE A COPY OF THE LATEST STORMTECH INSTALLATION INSTRUCTIONS.




OUTLET CONTROL STRUCTURE OCS-1

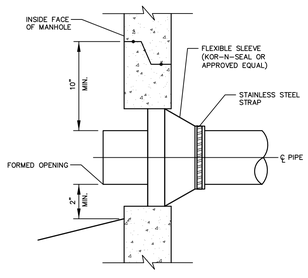
NOT TO SCALE

NOTE: STRUCTURE TO BE DESIGNED TO WITHSTAND HS-20 LOADING



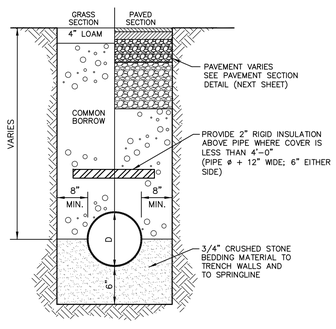

SECTION C-C (WEIR PLATE)

NOT TO SCALE




NEW PIPE TO EXISTING MANHOLE CONNECTION DETAIL - 4" TO 24"

NOT TO SCALE

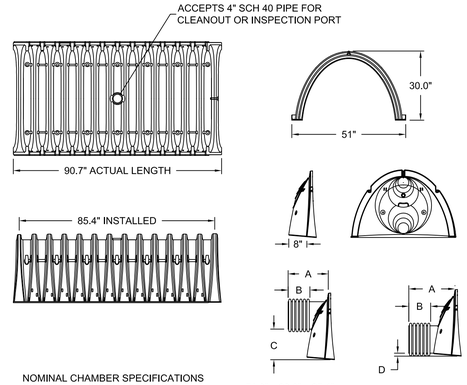



NOTE: ALL MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM PROCTOR DENSITY (MODIFIED)

PER MDOT ITEM 603

TYPICAL STORM DRAIN TRENCH SECTION

NOT TO SCALE




| | |
|---|---|
| NOMINAL CHAMBER SPECIFICATIONS | |
| SIZE (W x H x INSTALLED LENGTH) | 51.0" x 30.0" x 85.4" |
| CHAMBER STORAGE | 45.9 CUBIC FEET |
| MINIMUM INSTALLED STORAGE | 74.9 CUBIC FEET |
| WEIGHT | 75 LBS. |

STUBS AT TOP OF END CAP FOR PARTS NUMBERS ENDING WITH "T"

STUBS AT BOTTOM OF END CAP FOR PARTS NUMBERS ENDING WITH "B"

| PART # | CHAMBER | PIPE SIZE | A | B | C | D |
|---|---|---|---|---|---|---|
| ~~SC740EPE12B~~ | ~~SC 740~~ | ~~12 in (300 mm)~~ | ~~14.70 in (373 mm)~~ | ~~7.70 in (196 mm)~~ | ~~N/A~~ | ~~1.20 in (30 mm)~~ |
| SC740EPE24B | SC 740 | 24 in (600 mm | 18.50 in (470 mm) | 9.45 in (240 mm) | N/A | 0.10 in (3 mm) |

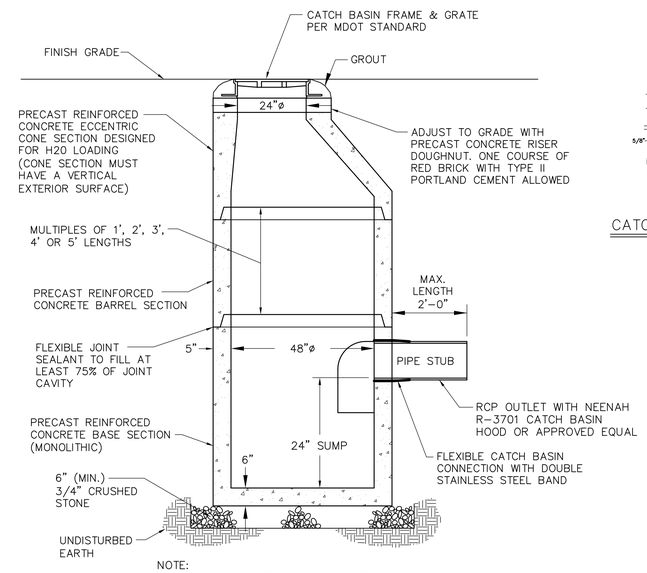
*NOTE: ALL DIMENSIONS ARE NOMINAL*

ALL STUBS, EXCEPT FOR THE SC740EPE24B ARE PLACED AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB IS FLUSH WITH THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694.

★ FOR THE SC740EPE24B THE 24" STUB LIES BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.75". BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE N-12 STUB SO THAT THE FITTING SETS LEVEL.

SC-740 TECHNICAL DETAILS

NOT TO SCALE




NOTE:
CATCH BASIN, FRAME AND GRATE SHALL BE DESIGNED TO WITHSTAND HS-20 LOADING.

PER MDOT ITEM 604.

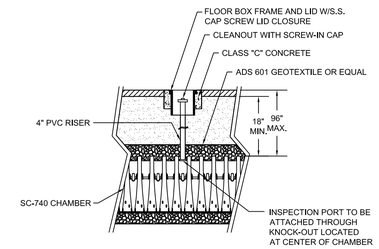
PRECAST CONCRETE CATCH BASIN DETAIL

N.T.S.

## ACCEPTABLE FILL MATERIALS
## STORMTECH SC-740 CHAMBER SYSTEMS

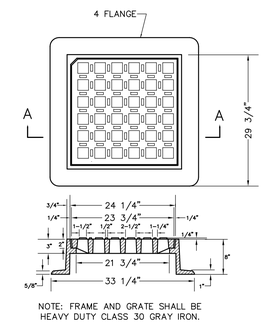
| MATERIAL LOCATION | DESCRIPTION | AASHTO M43 DESIGNATION | AASHTO M145 DESIGNATION | COMPACTION/DENSITY REQUIREMENT |
|---|---|---|---|---|
| FILL MATERIAL FROM 18" TO GRADE ABOVE CHAMBERS | ANY SOIL/ROCK MATERIALS, NATIVE SOILS OR PER ENGINEER'S PLANS. (SEE TYPICAL STORMWATER TRENCH SECTION ON SHEET C-10) | N/A | N/A | PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS. |
| FILL MATERIAL FOR 6" TO 18" ELEVATION ABOVE CHAMBERS (24" FOR UNPAVED INSTALLATIONS) | GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES. | 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | A-1 A-2 A-3 | COMPACT IN 6" LIFTS TO A MINIMUM 95% STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 LBS. DYNAMIC FORCE NOT TO EXCEED 20,000 LBS. |
| EMBEDMENT STONE SURROUNDING TO AN ELEVATION 12" ABOVE & 6" BELOW CHAMBERS | WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN ¾ - 2 INCH | 3, 357, 4, 467, 5, 56, 57 | N/A | NO COMPACTION REQUIRED |
| FOUNDATION BELOW CHAMBERS | WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN ¾ - 2 INCH | 3, 357, 4, 467, 5, 56, 57 | N/A | PLATE COMPACT OR ROLL TO ACHIEVE A 95% STANDARD PROCTOR DENSITY |
| SUBSURFACE SOIL FILTER | SEE CROSS SECTION | N/A | N/A | |

STORMTECH ACCEPTABLE FILL MATERIALS




STORMTECH INSPECTION PORT DETAIL

NOT TO SCALE




NOTE: FRAME AND GRATE SHALL BE HEAVY DUTY CLASS 30 GRAY IRON.

SECTION A-A

CATCH BASIN FRAME AND GRATE

N.T.S.

**THIS PLAN IS FOR REVIEW PURPOSES ONLY AND IS NOT INTENDED FOR CONSTRUCTION OR RECORDING**

| Revision: | By: | Date: | Change: |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |
| 3 | SMA | 3/16/20 | ADDED PROPANE TANKS |
| 2 | SMA | 1/6/20 | REVISED PER TOWN COMMENTS |
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| PROJECT NUMBER: 41878 | ACAD FILE: 41878-UG-DET.DWG | SCALE: AS NOTED | DATE: DECEMBER 21, 2020 |
|---|---|---|---|

Drawing Name:
UNDERGROUND DETENTION DETAILS - SHEET 2

Project Name:
FIELDING CONDOS
ROOSEVELT TRAIL, WINDHAM, MAINE

Owner/Applicant:
FIELDING'S OIL CO., INC.

STATE OF MAINE
Travis Latham
13920
LICENSED
PROFESSIONAL ENGINEER
3-16-20

SHEET 12 OF 12


SURVEYING • ENGINEERING • LAND PLANNING
Northeast Civil Solutions
INCORPORATED
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## Plant Notes:

1. The Landscape Contractor is advised that these notes and drawing consitute the entire set of construction drawings.
2. The Landscape Contractor is advised of the existence of underground utilities. The Landscape Contractor shall verify utilities prior to commencing construction. Call DIGSAFE at 1-888-344-7233
3. The Landscape Contractor shall be responsible for repairing any utilities, walks, paving, curbing, etc. damag in the performance of this job at no cost to the Owner. The Landscape Contractor shall notify the Landsca Architect immediately if they encounter any site conditions, which will not allow them to carry out the landscape installation according to the drawings.
4. Planting of trees shall not occur until all erosion control is in place and all grading and paving is completed. Submit a sample of the topsoil with NPK, pH, calcium, aluminum effective cation exchange capacity tests and fertility recommendations as well as bulk density test of the sample. Topsoil sh be friable void of weeds, stones greater than 3/4" diameter, sticks and other debris. Topsoil shall contain, 70-80% sand, 5-20% clay, 18-20% silt, 5.0-8% organic matter and a pH of 6-6.9. Notify the Landscape Architect immediately if there is standing water or other factors, which would prohibit the installation of plar material.
5. All plants shall have a normal habit of growth for the species and shall be sound, healthy and free of diseas and insects. All plants shall be legibly tagged with the proper complete botanical name. They shall confor to the measurements on the Plant List and shall conform to ANSI Z60.1 - Nursery Stock, latest revision. Prior to plant installation, the Landscape Contractor shall submit a written affidavit of all plant species, cultivars, varieties, sizes and quantities that they propose to install with the name, phone number and location of all nurseries where plant material has been grown. All plants shall be grown in a latitude north of Washington E The Landscape Architect will inspect all plants at the place of growth or upon delivery for conformity to the plant list and specifications. Such approval shall not affect the right of inspection and rejection during the progress of work. The Landscape Architect and Owner reserve the right to inspect, select and tag all plant material at the place of growth or select and approve a representative sample of each type of shrub, pere groundcover or annual. The samples selected will serve as a minimum standard for all plants of the same species used for this work.
6. The top 1/3 of wire baskets and burlap on trees shall be cut and removed. All other plant material includin trees shall have all non-biodegradable materials (string, wire, pots, etc.) removed at the time of planting. Circling roots or roots that would later girdle the plant shall be straightened, cut or the root ball shall be cut utilizing a split ball technique.
7. Backfill mix shall be composed of an 80/20, top soil/ peat moss mix. Planting pits shall be excavated to three times the diameter and to the same depth of the plant root ball. Backfill1/2 of the pit at a time, and compact. See Note 8 and install slow release fertilizer after first backfill lift. Setting the tree/shrub: Each tree/ shrub shall be planted such that the trunk flare junction is level with or 1" above existing grade. All trees/shrubs where the planting depth is incorrect shall be rejected. All trees and shrubs shall have a 3" soil saucer constructed at the perimeter of the planting pit.
8. All plantings shall have slow release fertilizer installed at the time of planting. The fertilizer shall be "Roots Transplant 1 Step", installed/ applied according to manufacturers instructions according to manufacturers instructions. After the plants are installed in each area, liquid feed all plants with Roots – Liquid Concentrate. Mix and apply according to manufacturers instructions. The landscape contra shall submit samples of the slow release fertilizer and copies of the label of the liquid fertilizer prior to plant installation. The Landscape Contractor shall not install any plant material unless appropriate watering equipment is on site. All plants shall be adequately watered the day of installation or these plants will be rejected and replaced by the Landscape Contractors at no cost to the owner.
9. All trees shall have 2 stakes and guys. Stakes shall be 2" x 2" hardwood of sufficient length to guy above the first branches. Guys shall be flexible guying chain or an approved equal. Submit a sample of guying pr to installation. Any plants with broken or damaged root balls will be rejected. The landscape contractor sl remove all stakes after 1 year. All trees shall have treegators installed at the time of planting and shall be fill one a week from April thru November. Treegators shall be either the "Original" or "Treegator Jr."
10. Mulch to be installed to a depth of 3" after normal settling including the seasonal color area. Mulch shall b medium shredded Hemlock bark, dark brown in color. Do not place mulch in contact with the tree trunk. The Landscape Contractor shall submit a .25 cubic foot sample prior to installation.
11. All plants shall have their locations staked and approved by the Landscape Architect prior to plant installat Plants shall be spaced according to the plan and as noted in the Plant Species List. All plants shall be oriented for best appearance and arranged to evenly occupy the space where they are planted.
12. Plant species and plant size substitutions will not be allowed unless first approved by the Landscape Archite Any substituted plants installed without prior approval will be rejected.
13. All plants shall be guaranteed for one year. The landscape contractor at no cost to the owner shall replace any plants that die during the guarantee.
14. Allow deciduous and evergreen shrubs to grow together to form a continuous plant mass.
15. The contractor shall supply the quantities of plants sufficient to complete the work shown on all of the drawings. If quantities of plants listed in the plant species list do not correlate with the plantings indicated on the drawings, the quantities on the drawings shall govern. Any discrepancies between the plant list anc the drawings shall not entitle the landscape contractor to additional remuneration. Notify the Landscape Architect immediately if discrepancies are detected.
16. Under no circumstance shall snow be plowed and piled on planting areas. This will result in crushing and death of the plant materialand void the one year warranty.

## Plant Species List

| ID | Qty | Latin Name | Common Name | Scheduled Size | Remarks |
|---|---|---|---|---|---|
| AMS | 11 | Acer mivabei 'State Street' | State Street Mivabe Maple | 2.5" - 3" cal. | B&B |
| CM | 3 | Cornus mas 'Golden Glory' | Golden Glory Cornelian Cherry | 2" - 2.5" cal. | B&B |
| DS | 60 | Diervilla splendens 'El Madrigal' | Firefly Nightglow Bush Honeysuckle | 18" - 24" | Cont.. 3' o.c. |
| FB | 17 | Fothergilla x intermedia 'Blue Shadow' | Blue Shadow Fothergilla | 18" - 24" | cont. |
| GB | 56 | Geranium x cantabrigiense 'Biokovo' | Biokovo Cranesbill | 1 gal. | 18" o.c. |
| JS | 69 | Juniperus sabina 'Buffalo' | Buffalo Juniper | 18" - 24" | cont., 4' o.c. |
| PP | 9 | Parrotia persica "Vanessa' | Vanessa Persian Ironwood | 2.5" - 3" | B&B |
| PV | 41 | Panicum virgatum 'Shenandoah' | Shenandoah Switch Grass | 2 gal. | 30" o.c. |
| QRA | 5 | Quercus robur x alba 'Crimschmidt' | Crimson Spire Oak | 2.5" - 3" cal. | B&B |
| TO | 8 | Thuia occidentalis 'Smaragd' | Emerald Arborvitae | 6' - 7' | Cont. or B&B, 4' o.c |
| VPT | 13 | Viburnum plicatum tomentosum 'Shasta' | Shasta Viburnum | 24" - 30" | cont., 6' o.c. |

This plan shall not be modified without written permission from Barry J. Hosmer - Landscape Architect. Any alterations, authorized or otherwise, shall be at the user's sole risk and without liability to Barry J. Hosmer - Landscape Architect.
File Name: Fielding Oil - Windham v2020.vwx

| Revision | By: | Date: | Change: |
|---|---|---|---|
| | | | |

| PROJECT NUMBER: | ACAD FILE: | SCALE: 1" = 30' | DATE: |
|---|---|---|---|

LICENSED LANDSCAPE ARCHITECT
BARRY J. HOSMER
No. 79
STATE OF MAINE

Drawing Name:
LANDSCAPE PLAN

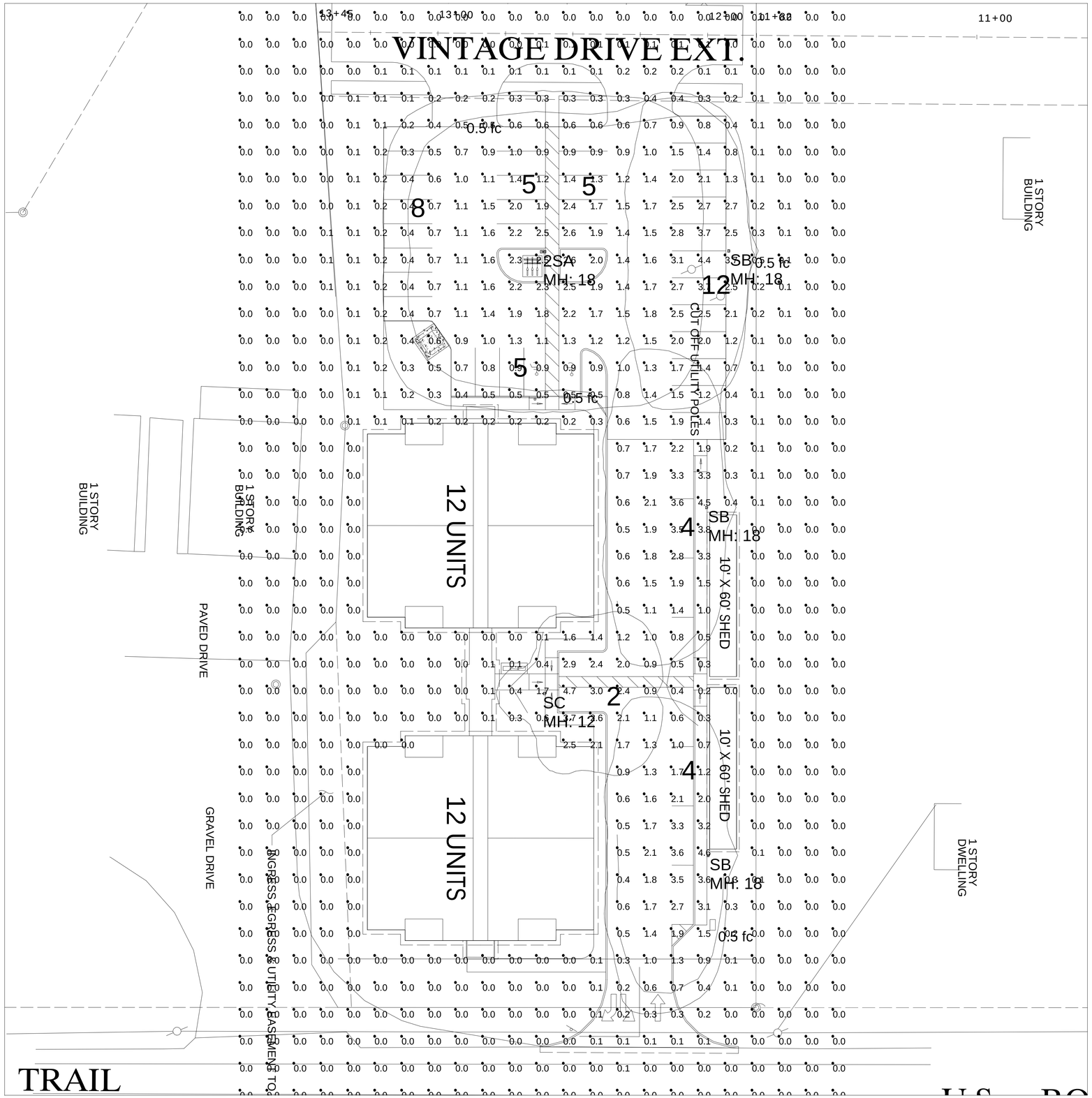
Project Name:
FIELDING CONDOS
ROOSEVELT TRAIL, WINDHAM, MAINE

Owner/Applicant:
FIELDING'S OIL CO., INC.

Barry J. Hosmer ASLA
Landscape Architecture Land Planning
196 Whitney Avenue
Portland, Maine 04102
207-874-0248

0 20' 40' 80'

SHEET 1 OF 1




PLAN VIEW

NOTES:
1) EXACT MOUNTING DETAILS TO BE DETERMINED AT JOBSITE BY OTHERS.
2) CALCULATIONS MAY or MAY NOT SHOW THE EFFECT OF SHADOWING CAUSED BY BUILDINGS AND OBJECTS WITHIN THE CALCULATED SPACE OR IN THE SITE AREA.
3) READINGS SHOWN ARE INITIAL HORIZONTAL FOOTCANDLES ON A FLAT SITE WITHOUT REFLECTIONS OR OBSTRUCTIONS UNLESS OTHERWISE INDICATED.
4) THIS CALCULATION IS BASED ON LIMITED INFORMATION SUPPLIED BY OTHERS TO SWANEY LIGHTING ASSOCIATES AND STANDARD ASSUMPTIONS OF THE SPACE AND/OR SITE.
5) CONFORMANCE TO CODES AND OTHER LOCAL REQUIREMENTS AS DETERMINED BY THE AHJ ARE THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.
6) THIS LAYOUT DRAWING MUST BE COORDINATED WITH THE SITE LOCATION FOR CORRECT FIXTURE ORIENTATION.
7) DOCUMENTS PRINTED OR PLOTTED FROM ELECTRONIC FILES MAY APPEAR AT OTHER THAN THE DESIRED OR ASSUMED GRAPHIC SCALES. IT IS THE RESPONSIBILITY OF THE RECIPIENT TO VERIFY THAT THE PRINTED OR PLOTTED-TO-SCALE DRAWING IS PRINTED TO SCALE.

Calculation Summary

| Label | Avg | Max | Min | Avg/Min | Max/Min |
|---|---|---|---|---|---|
| SITE | 0.44 | 4.7 | 0.0 | N.A. | N.A. |
| PARKING | 1.45 | 4.4 | 0.3 | 4.83 | 14.67 |

Luminaire Schedule (note fixture cataloge numbers are not complete)

| Type | Qty | Lum. Lumens | LLF | Lum. Watts | Description |
|---|---|---|---|---|---|
| 2SA | 1 | 7908 | 0.900 | 80.52 | TWIN VP-S-36L-80-3K7-4W |
| SB | 3 | 7516 | 0.900 | 109.78 | VP-S-48L-110-3K7-3-BC |
| SC | 1 | 5400 | 0.900 | 54 | VP-S-24L-55-3K7-4 |

SITE LTG 1-6-20 AGI

GENERATED BY SWANEY LIGHTING, SCARBOROUGH ME - 207-883-7100 - swaneylighting.com

TITLE
FIELDING APARTMENTS
WINDHAM, ME
SITE LIGHTING LAYOUT

Date:1/6/2021

GENERATED FOR:
NORTHEAST CIVIL SOLUTIONS

SCALE NOT TO SCALE

Page 1 of 1

SWANEY LIGHTING ASSOCIATES, INC.

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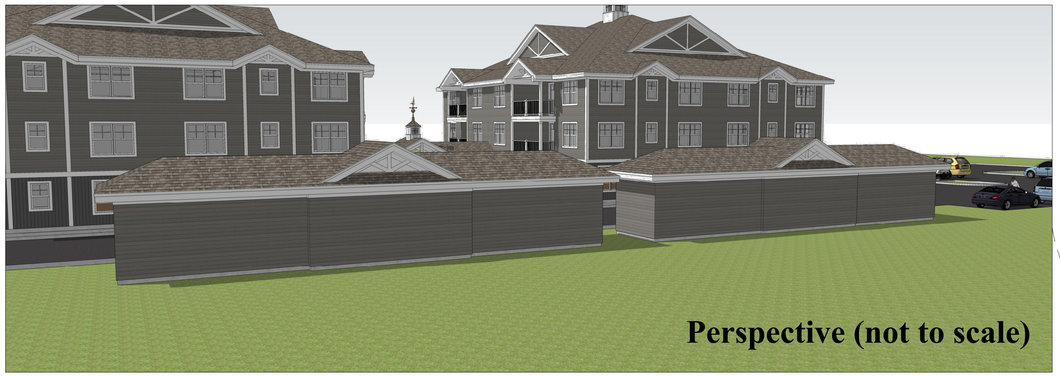
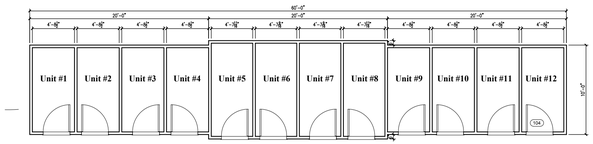
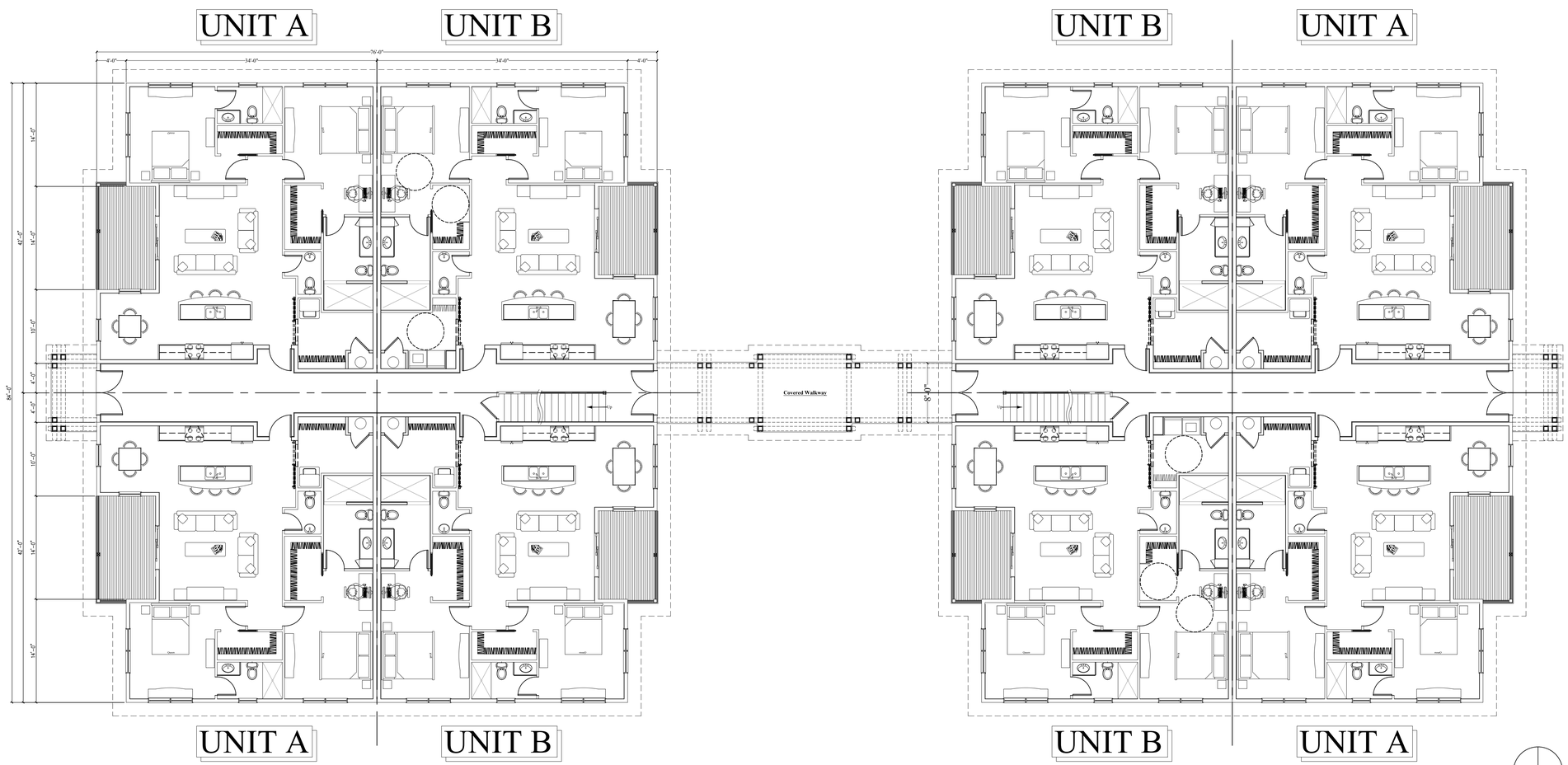
THE DESIGN OF THIS LIGHTING SYSTEM IS BASED ON THE BEST UTILIZATION OF LIGHTING FIXTURES INCLUDED IN THIS DRAWING. IT IS PROVIDED USING FIXTURE PHOTOMETRICS ESTABLISHED BY THE MANUFACTURERS. WARRANTY WITH RESPECT TO PERFORMANCE IS LIMITED TO PERFORMANCE SHOWN IN IES FILE IS NOT THE RESPONSIBILITY OF THE MANUFACTURER. ITS USE FOR ANY OTHER PURPOSE IS NOT AUTHORIZED BY SWANEY LIGHTING ASSOCIATES.




| SHEET NOTES | GENERAL SHEET NOTES | GRAPHIC LEGEND |
|---|---|---|
| (01) BLANK | 1. BLANK | - New Wall<br>E.O.S. -EDGE OF STUD<br>E.O.C. -EDGE OF CONCRETE |




## Storage Floor Plan
Scale: 1/4" = 1'-0"




## First Floor Plan
Scale: 1/8" = 1'-0"

N

LICENSED ARCHITECT
CHRISTOPHER M. BAKKILA
No. 3197
STATE OF MAINE

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | |

REVISIONS

CUSTOM CONCEPTS, INC.

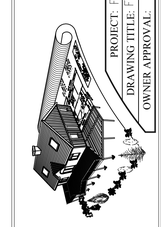
• A R C H I T E C T U R E •

383 U.S. ROUTE 1, SUITE 1a, SCARBOROUGH, MAINE 04074
Phone: (207) 883-0083 WWW.CUSTOMCONCEPTSINC.COM

Preliminary Design ☑ Design Development ☐ Contract Documents ☐
CLIENT REVIEW ONLY, NOT FOR CONSTRUCTION. CLIENT REVIEW AND COST ESTIMATING. FOR PERMITS, BIDS, AND CONSTRUCTION.

JOB NUMBER: 2020-17
DRAWN BY: CMB
SCALE: 1/8" = 1'-0"

PROJECT: FIELDINGS APARTMENTS
DRAWING TITLE: FLOOR PLANS
OWNER APPROVAL:



DATE: MARCH 09, 2021

A1.1