

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

N/F

1234/567

ABUTTER LINE OVERHEAD UTILITY NOW OR FORMERLY OWNED BY DEED BOOK AND PAGE

TAX MAP-LOT 12-34 (123.45') PARENTHESIS DENOTE RECORD DATA

NOTES

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

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

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

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.

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

1	SMA	1/4/21	UPDATE	D BUILDING SETBA	CKS				
ROJECT: 41878				DRAWING NAME: 41878.dwg					
SSUED:	JUNE	4, 2020		SCALE: 1"=40'	FB #	426	DRAWN BY: JAP		
IELDED	BY: 、	JAP / AS	SF	FIELD DATE:	5/08/20	20	CHECKED BY: DMM / TFM		
rawing Na	me and Leea	tion:							

BOUNDARY & TOPOGRAPHIC SURVEY ROOSEVELT TRAIL, WINDHAM, MAINE

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

FIELDING'S OIL CO., INC.



Northeast Civil Solutions INCORPORATED

381 PAYNE ROAD, SCARBOROUGH, MAINE 04074

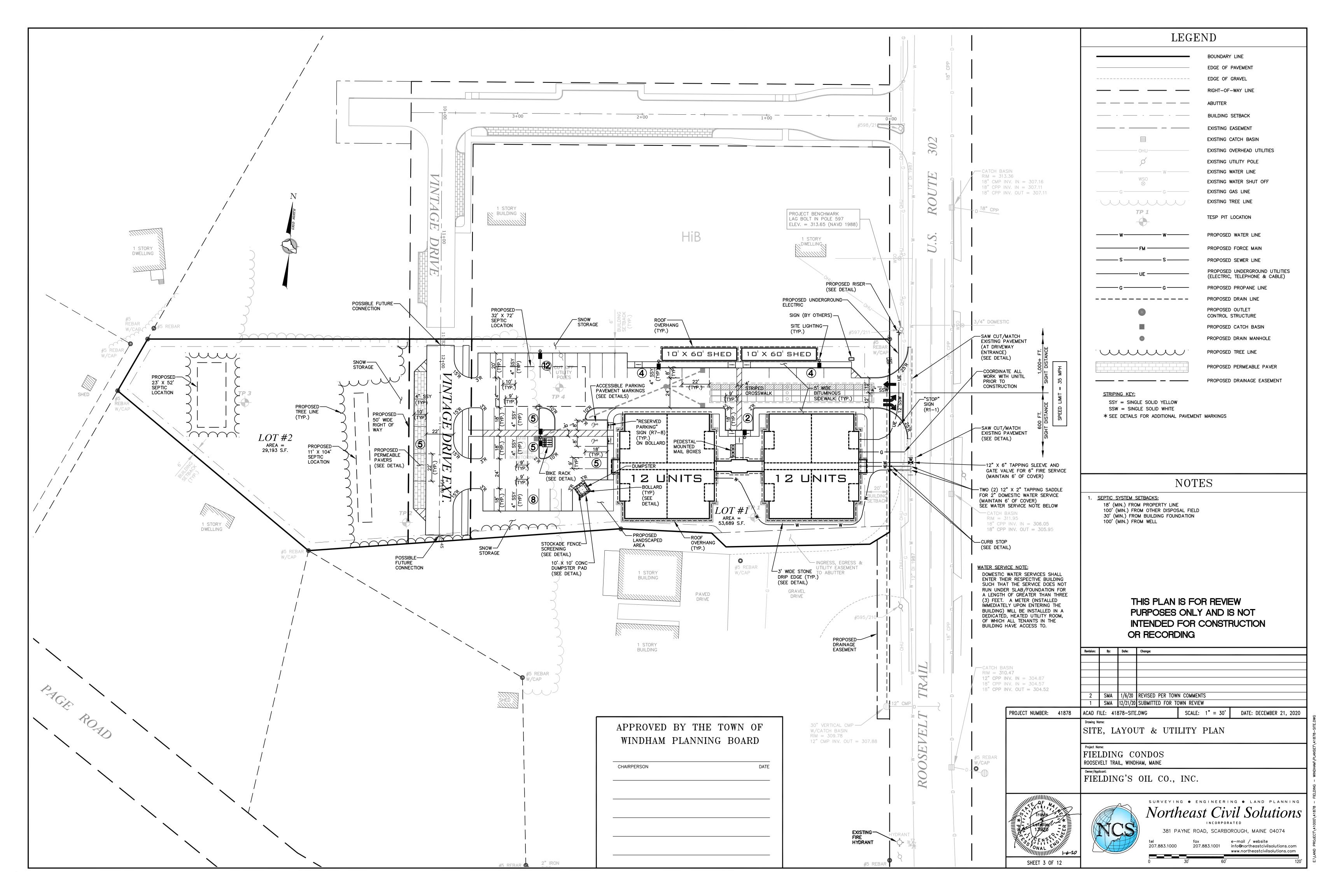
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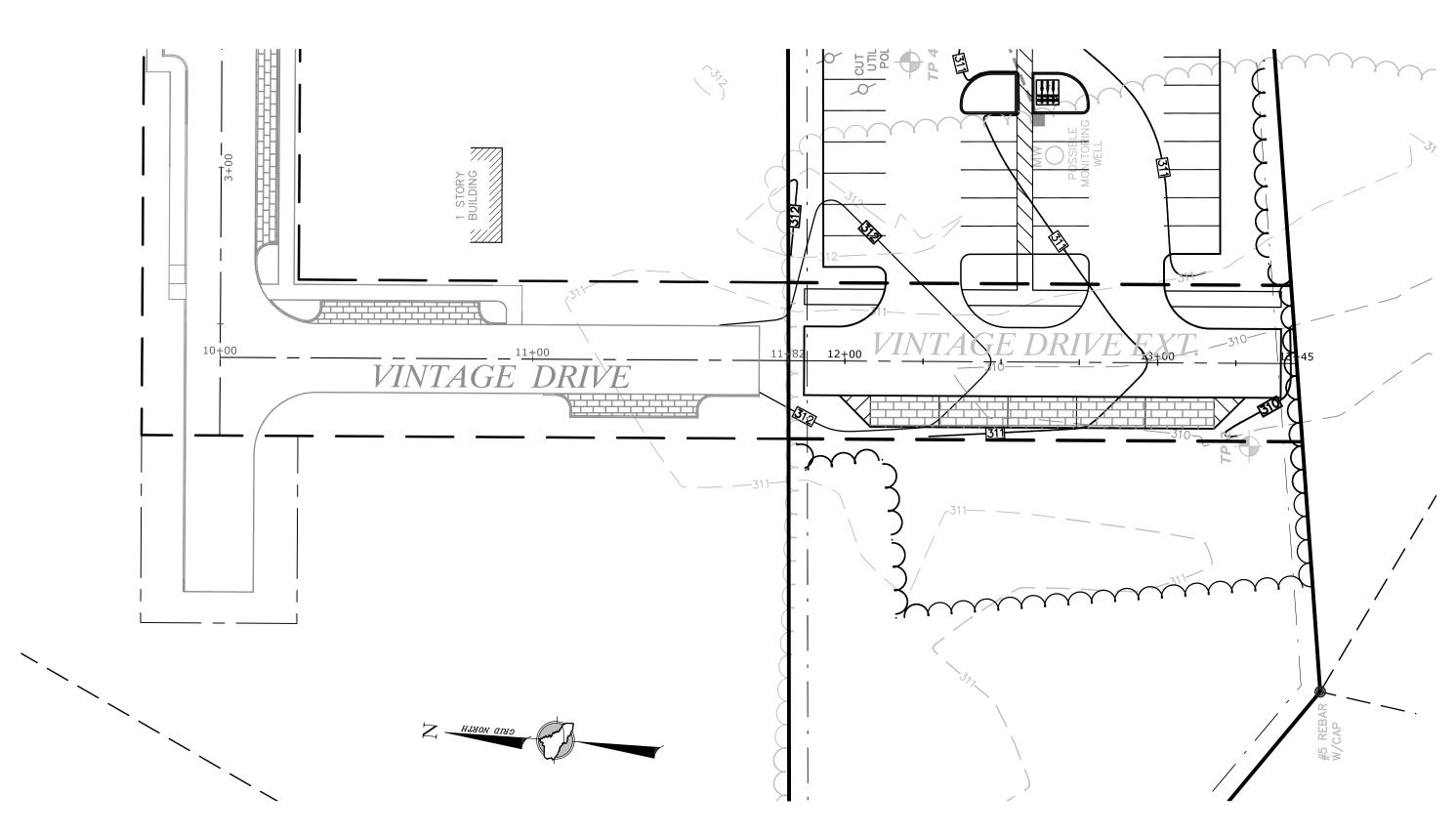
fax e—mail / website 207.883.1001 info@northeastcivilsolutions.com www.northeastcivilsolutions.com

STAMP AND SIGNATURE

ノナトタート 1/4/2021 TROY F. McDONALD
MAINE PROFESSIONAL LAND SURVEYOR No. 2080







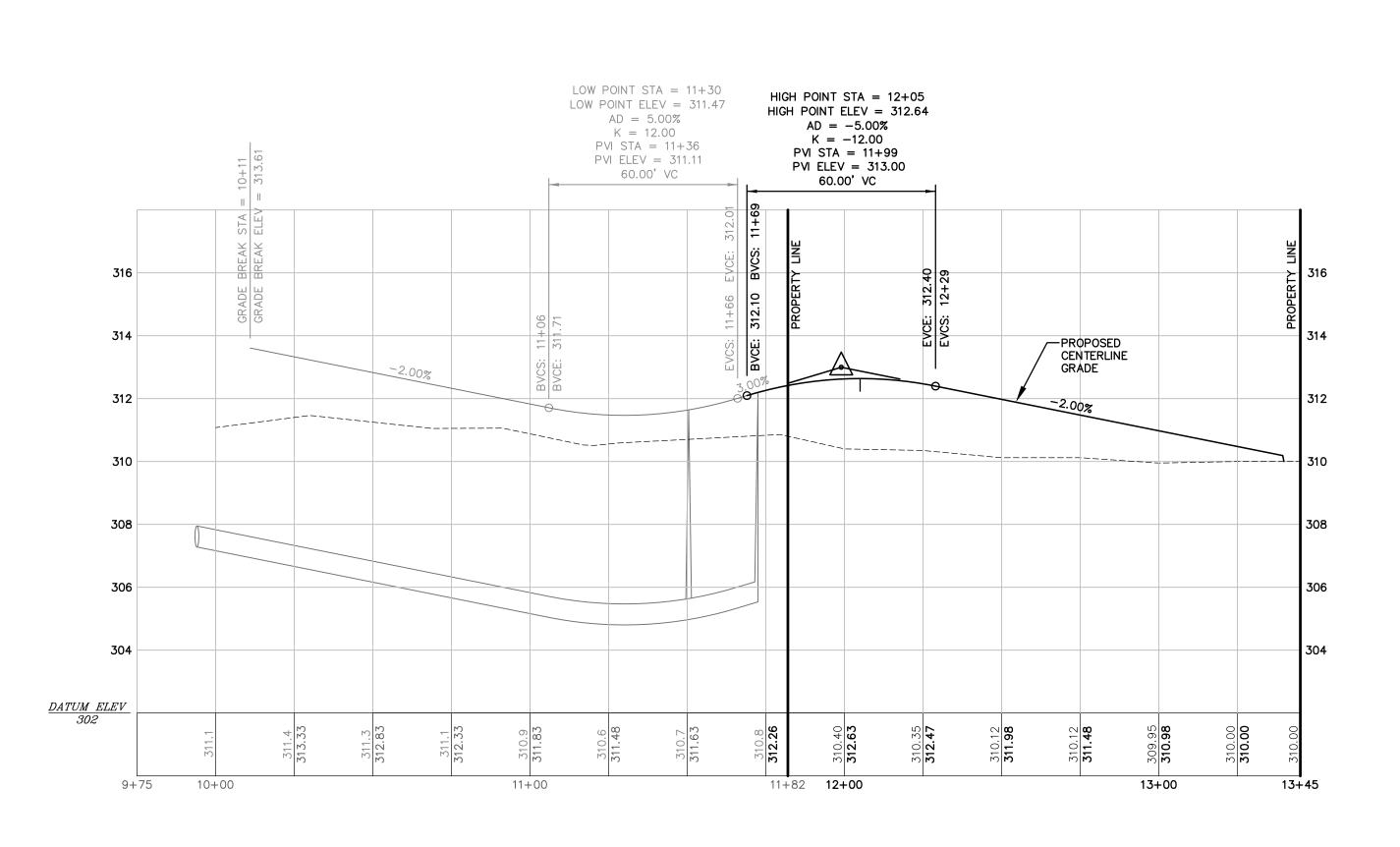
PLAN – VINTAGE DRIVE EXT.

HORIZONTAL SCALE 1" = 30'

50'-0" R.O.W. 5'-0"
SIDEWALK 7'-0" 11'-0" 11'-0" 10'-0" ESPLANADE PARKING SPACE TRAVEL WAY TRAVEL WAY (SEE DETAILS) ┌─ 4"LOAM 4" LOAM → & SEED / 4" LOAM & SEED 1/4"/FT 1/4"/FT & SEED 1/4"/FT ---- PERMEABLE PAVERS 1.5" BITUMINOUS PAVEMENT (SEE DETAIL) (MDOT 403, 9.5 MM HMA) _____2.5" BITUMINOUS PAVEMENT (MDOT 403, 19.0 MM HMA) ______3" CRUSHED AGGREGATE BASE COURSE (MDOT 703.06 TYPE A) 21" AGGREGATE SUBBASE (MDOT 703.06 TYPE D) — CLEAN GRANULAR FILL COMPACTED IN 12" LIFTS (CLEAN GRANULAR FILL MUST BE FREE OF ROCKS LARGER THAN 12", STUMPS, DEBRIS. ORGANIC MATERIAL AND FROZEN MATERIAL)

TYPICAL ROAD CROSS SECTION

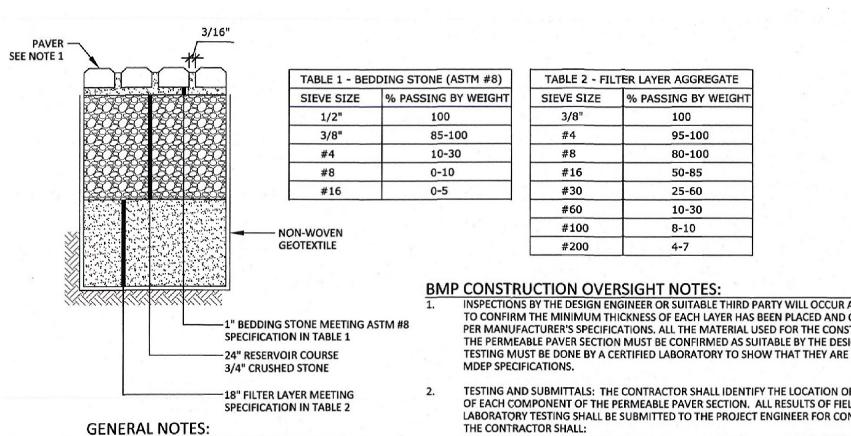
STA. 11+82 TO STA. 13+45 NOT TO SCALE



ROAD PROFILE - VINTAGE DRIVE EXT.

HORIZONTAL SCALE 1" = 30'

VERTICAL SCALE 1" = 3'



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

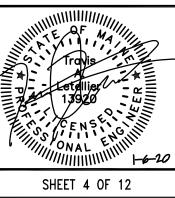
TESTING AND SUBMITTALS: THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE SOURCE OF EACH COMPONENT OF THE PERMEABLE PAVER SECTION. ALL RESULTS OF FIELD AND LABORATORY TESTING SHALL BE SUBMITTED TO THE PROJECT ENGINEER FOR CONFIRMATION. A) SAMPLES OF THE FILTER LAYER, RESERVOIR COURSE AND BEDDING STONE SHALL BE

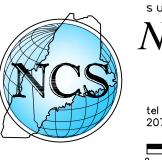
COLLECTED. SAMPLES MUST BE A COMPOSITE OF THREE DIFFERENT LOCATIONS

(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)

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

	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						
	PLAN & PROFILE						
	FIELDING CONDOS ROOSEVELT TRAIL, WINDHAM, MAINE						
	Owner/Applicant: FIELDING'S OIL CO., INC.						
Travis Contraction	Northeast Civil Solutions						



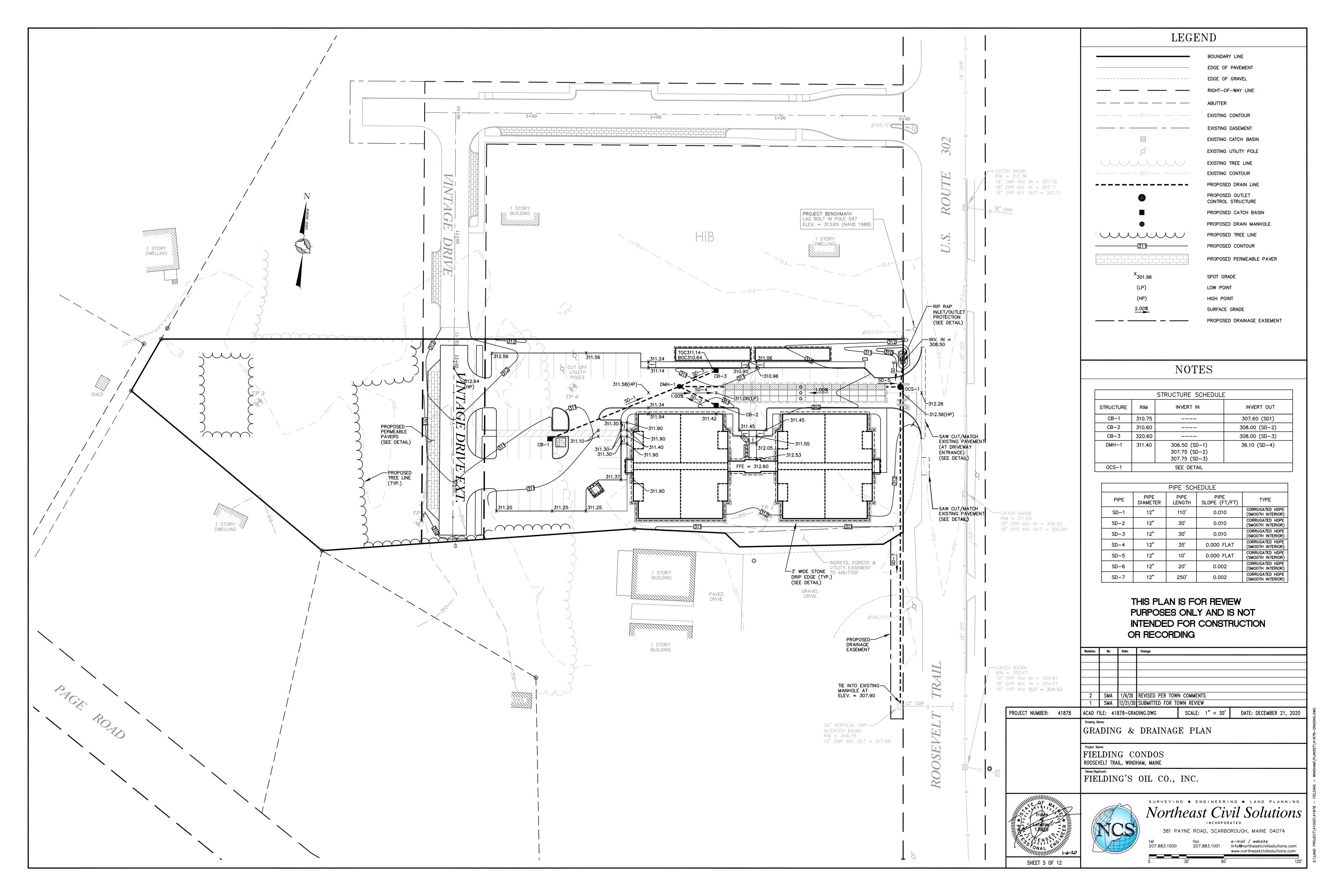


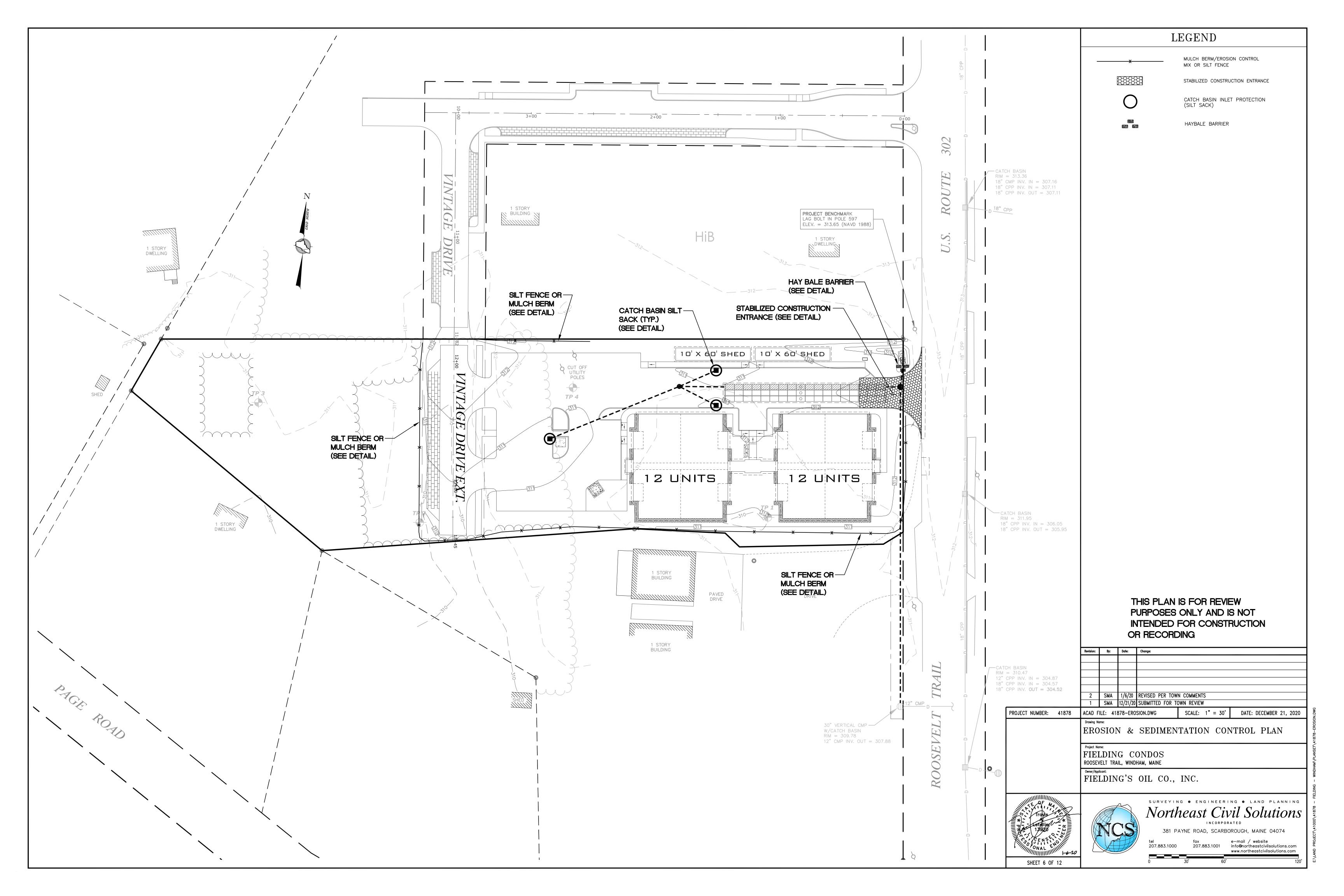
Revision: By: Date: Change:

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207.883.1001





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 OCTÒBER 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

1 EROSION AND SEDIMENTATION CONTROL

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.

- SEDIMENT BARRIERS, PRIOR TO CONSTRUCTION, PROPERLY INSTALL SEDIMENT BARRIERS AT THE DOWNGRADIENT EDGE OF ANY 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 PREVENTED 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
- 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.
- 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
- PERMANENT STABILIZATION. IF THE AREA WILL NOT BE WORKED FOR MORE THAN ONE YEAR OR HAS BEEN BROUGHT TO FINAL GRADE, THEN PERMANENTLY STABILIZE THE AREA WITHIN 7 DAYS BY PLANTING VEGETATION, SEEDING, SOD THROUGH THE USE OF PERMANENT MULCH, OR RIPRAP, OR ROAD SUB-BASE USING VEGETATION FOR STABILIZATION, SELECT THE PROPER VEGETATION FOR THE LIGHT, MOISTURE, AND SOIL CONDITIONS; AMEND AREAS OF DISTURBED SUBSOILS WITH TOPSOIL, COMPOST, OR FERTILIZERS; 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
- 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.
- SODDED AREAS. FOR SODDED AREAS, PERMANENT STABILIZATION MEANS 1.6.2 THE COMPLETE BINDING OF THE SOD ROOTS INTO THE UNDERLYING SOIL WITH NO SLUMPING OF THE SOD OR DIE-OFF.
- 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.
- 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 I SIZED APPROPRIATELY. IT IS RECOMMENDED THAT ANGULAR STONE BE
- 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.
- 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
- 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. TURE 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.
- 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
- SITE STABILIZATION. FOR WINTER STABILIZATION, HAY MULCH IS APPLIED AT TWICE THE STANDARD TEMPORARY STABILIZATION RATE. AT THE END OF FACH CONSTRUCTION DAY AREAS THAT HAVE BEEN BROUGHT TO FINAL GRADE MUST BE STABILIZED. MULCH MAY NOT BE SPREAD ON TOP OF
- SEDIMENT BARRIERS. ALL AREAS WITHIN 75 FEET OF A PROTECTED NATURAL RESOURCE MUST BE PROTECTED WITH A DOUBLE ROW OF
- 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.
- 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.
- 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.
- THE CHANNEL SHOULD RECEIVE ADEQUATE ROUTINE MAINTENANCE TO MAINTAIN CAPACITY AND PREVENT OR CORRECT ANY EROSION OF THE CHANNEL'S BOTTOM OR SIDE SLOPES.
- WHEN THE WATERSHED DRAINING TO A DITCH OR SWALE IS LESS THAN 1 ACRE OF TOTAL DRAINAGE AND LESS THAN 1/4 ACRE OF IMPERVIOUS AREA, DIVERSION OF RUNOFF TO ADJACENT WOODED OR OTHERWISE VEGETATED BUFFER AREAS IS ENCOURAGED WHERE THE OPPORTUNITY EXISTS.

- 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 FROSION 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 1/2 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 CONTROLS 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
- 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.
- 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 FLEVATION 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
- 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.

INSPECTION AND MAINTENANCE

- DURING CONSTRUCTION. THE FOLLOWING STANDARDS MUST BE MET DURING CONSTRUCTION.
- INSPECTION AND CORRECTIVE ACTION. INSPECT DISTURBED AND IMPERVIOUS 2.1.1 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 PÉRSON WITH KNOWLEDGE OF EROSION AND STORMWATER CONTROL, INCLUDING THE STANDARDS AND CONDITIONS IN THE PERMIT, SHALL CONDUCT THE
- 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.
- 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) O 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 NEEDING 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 B 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.
- POST-CONSTRUCTION. THE FOLLOWING STANDARDS MUST BE MET AFTER
- 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.
- INSPECTION AND MAINTENANCE. ALL MEASURES MUST BE MAINTAINED IN 2.2.2 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
- INSPECT VEGETATED AREAS, PARTICULARLY 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. ARMOF THE AREA WITH AN APPROPRIATE LINING OR DIVERT THE FROSIVE FLOWS TO ON-SITE AREAS ABLE TO WITHSTAND THE CONCENTRATED FLOWS. SEE PERMANENT STABILIZATION STANDARDS IN SECTION 1.6.
- 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 S 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.
- 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
- 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).
- 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.
- 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.
- 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.

FILTER MEDIA.

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

2.2.3 REGULAR MAINTENANCE

- 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, (GRADING OF THE GRAVEL SHOULDERS OF GRAVEL OR PAVED ROADS, MUST E ROUTINELY PERFORMED TO ENSURE THAT STORMWATER DRAINS MMEDIATELY OFF THE ROAD SURFACE TO ADJACENT BUFFER AREAS OF 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.
- 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 CUI MORE THAN THREE TIMES PER YEAR, AND MAY NOT BE CUT SHORTER THAN
- 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 OR MAINTENANCE PERSONNEL PERFORMING THE TASK. IF A MAINTENANCE TASK REQUIRES THE CLEAN-OUT OF ANY SEDIMENT 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
- 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.
- INSPECTION AND REPAIR OF STORMWATER CONTROL SYSTEM. ALL ASPECTS OF STORMWATER CONTROL SYSTEM HAVE BEEN INSPECTED FOR DAMAGE, WEAR, AND MALFUNCTION, AND APPROPRIATE STEPS HAVE BEEN TAKEN TO REPAIR OR
- 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

REPLACE THE SYSTEM, OR PORTIONS OF THE SYSTEM.

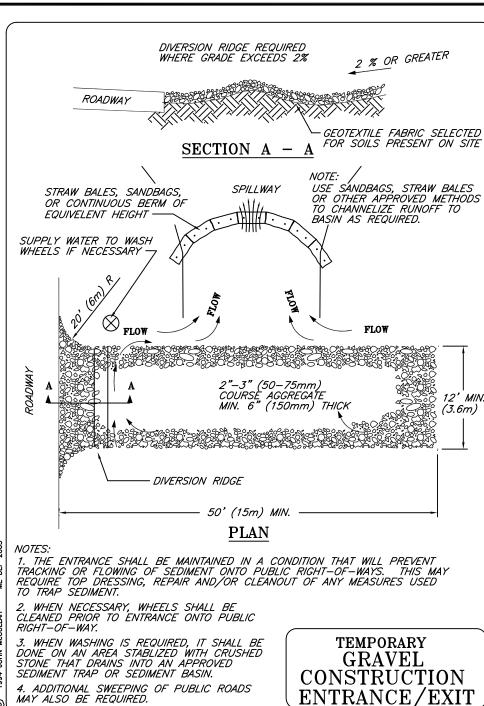
- MUNICIPALITIES WITH SEPARATE STORM SEWER SYSTEMS REGULATED UNDER THE MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM (MPDES) PROGRAM MAY REPORT ON ALL REGULATED SYSTEMS UNDER THEIR CONTROL AS PART OF THEIR REQUIRED ANNUAL REPORTING IN LIEU OF SEPARATE CERTIFICATION OF EACH SYSTEM. MUNICIPALITIES NOT REGULATED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

- 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
- 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 ACCUMULATION OF FINES, REDUCTION IN INFILTRATION RATE, AND CONSEQUENT FLOODING AND DESTABILIZATION.
- FUGITIVE SEDIMENT AND DUST. ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION. OIL MAY NOT BE USED FOR DUST CONTROL, BUT OTHER WATER ADDITIVES MAY BE CONSIDERED AS NEEDED. A STABILIZED CONSTRUCTION ENTRANCE (SCE) SHOULD BE INCLUDED TO MINIMIZE TRACKING OF MUD AND SEDIMENT. IF OFF-SITE TRACKING OCCURS, PUBLIC ROADS SHOULD BE SWEPT IMMEDIATELY AND NO LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS. OPERATIONS DURING DRY MONTHS, THAT EXPERIENCE FUGITIVE DUST PROBLEMS, SHOULD WET DOWN UNPAVED ACCESS ROADS ONCE A WEEK OR MORE FREQUENTLY AS NEEDED WITH A WATER ADDITIVE TO SUPPRESS FUGITIVE SEDIMENT
- DEBRIS AND OTHER MATERIALS. MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BUILDING AND LANDSCAPING MATERIALS. TRASH, FERTILIZERS, PESTICIDES, HERBICIDES. DETERGENTS, SANITARY WASTE AND OTHER MATERIALS TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVENTED FROM BECOMING A
- EXCAVATION DE-WATERING. EXCAVATION DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION, IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER REMOVED FROM THE PONDED AREA. EITHER THROUGH GRAVITY OR PUMPING, MUST BE SPEAD THROUGH NATURAL WOODED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE. LIKE A COFFERDAM SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED BY THE DEPARTMENT
- AUTHORIZED NON-STORMWATER DISCHARGES. IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST, THEY MUST BE IDENTIFIED AND STEPS SHOULD BE TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER

DISCHARGES FROM FIREFIGHTING ACTIVITY; FIRE HYDRANT FLUSHINGS:

- VEHICLE WASHWATER IF DETERGENTS ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRIAGE AND TRANSMISSION WASHING IS PROHIBITED): DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS AND APPENDIX
- 3.6.5 ROUTINE EXTERNAL BUILDING WASHDOWN, NOT INCLUDING SURFACE PAINT REMOVAL, THAT DOES NOT INVOLVE DETERGENTS;
- PAVEMENT WASHWATER (WHERE SPILLS/LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS ALL SPILLED MATERIAL HAD BEEN REMOVED) IF DETERGENTS ARE NOT USED; UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE;
- UNCONTAMINATED GROUNDWATER OR SPRING WATER: FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED; 3.6.10 UNCONTAMINATED EXCAVATION DEWATERING (SEE REQUIREMENTS IN APPENDIX
- PÒTÁBLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS; AND LANDSCAPE IRRIGATION.
- UNAUTHORIZED NON-STORMWATER DISCHARGES. THE DEPARTMENT'S APPROVAL UNDER THIS CHAPTER DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON-STORMWATER, OTHER THAN THOSE DISCHARGES IN COMPLIANCE WITH APPENDIX C (6). SPECIFICALLY, THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE DISCHARGES
- WASTEWATER FROM THE WASHOUT OR CLEANOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS; FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION
- SOAPS, SOLVENTS, OR DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING; 3.7.3
- 3.7.4 TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE.



ENTRANCE/EXIT FILE: ENTRANCE

BASIC STANDARDS - EROSION CONTROL MEASURES:

GENERAL NOTE:

SHALL MEET MDOT ITEM 656.

HOWEVER. BASED ON SITE AND WEATHER CONDITIONS DURING

REPAIRED IMMEDIATELY DURING CONSTRUCTION AND NEED TO BE

MAINTAINED UNTIL THE SITE IS FULLY STABILIZED OR VEGETATION IS

ESTABLISHED. A CONSTRUCTION LOG MUST BE MAINTAINED FOR THE

MINIMUM EROSION CONTROL MEASURES WILL NEED TO BE IMPLEMENTED

OF THE EROSION CONTROL PLAN UNTIL THE SITE IS FULLY STABILIZED.

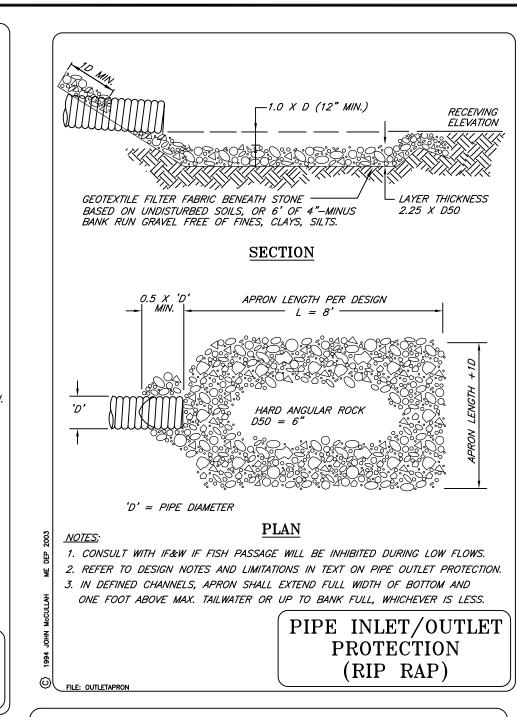
CONSTRUCTION, ADDITIONAL EROSION CONTROL MEASURES MAY NEED TO

BE IMPLEMENTED. ALL AREAS OF INSTABILITY AND EROSION MUST BE

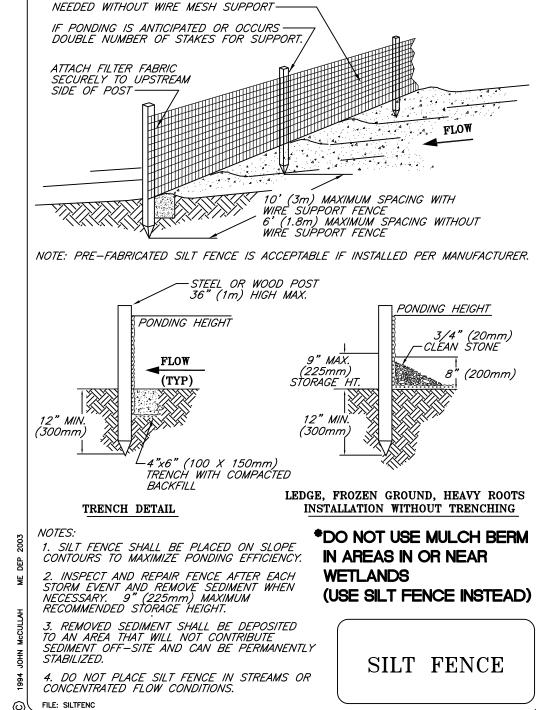
EROSION AND SEDIMENTATION CONTROL INSPECTIONS AND MAINTENANCE.

ALL EROSION AND SEDIMENTATION CONTROL MEASURES

AND THE APPLICANT WILL BE RESPONSIBLE TO MAINTAIN ALL COMPONENTS



-FIELD INLET OR CATCH BASIN GRATE 1" REBAR FOR LIFTING AND REMOVAL DUMP STRAP (2 SILTSACK INSTALL SILTSACK PER MANUFACTURER'S INSTRUCTIONS AND RECOMENDATIONS. EMPTY OR REMOVE SEDIMENT FROM SILTSACK WHEN RESTRAINT CORD IS NO LONGER VISIBLE. CLEAN, RINSE AND REPLACE AS NEEDED. FIELD INLET OR CATCH BASIN SILTSACK IS CUSTOM MADE FOR EACH BASIN SIZE (L x W x D). CONTACT ACE ENVIRONMENTAL (1-800-644-9223) SILTSACK INLET SEDIMENT CONTROL DEVICE



FROSION CONTROL MIX BERMS

FROSION CONTROL MIX CAN BE MANUFACTURED ON OR OFF THE PROJECT SITE IT MUST CONSIST PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR ACCEPTABLE MANUFACTURED PRODUCTS. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.

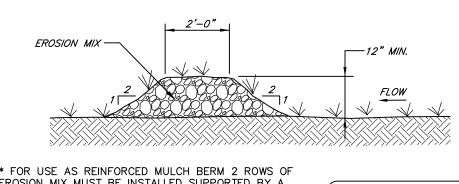
EROSION CONTROL MIX SHALL CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKSLESS THAN 4" IN DIAMETER. EROSION CONTROL MIX MUST BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH. THE MIX COMPOSITION SHALL MEET THE FOLLOWING STANDARDS:

• THE ORGANIC MATTER CONTENT SHALL BE BETWEEN 80 AND 100%, DRY WEIGHT BASIS. • PARTICLE SIZE BY WEIGHT SHALL BE 100 % PASSING A 6" SCREEN AND A MINIMUM OF 70 %, MAXIMUM OF 85%, PASSING A 0.75" SCREEN. • THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED. • LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX.

• SOLUBLE SALTS CONTENT SHALL BE < 4.0 MMHOS/CM. • THE PH SHOULD FALL BETWEEN 5.0 AND 8.0. • THE BARRIER MUST BE PLACED ALONG A RELATIVELY LEVEL CONTOUR. IT MAY BE NECESSARY TO CUT TALL GRASSES OR WOODY VEGETATION TO AVOID CREATING VOIDS AND BRIDGES THAT WOULD

ENABLE FINES TO WASH UNDER THE BARRIER THROUGH THE GRASS BLADES OR PLANT STEMS • ON SLOPES LESS THAN 5 % OR AT THE BOTTOM OF STEEPER SLOPES (<2:1) UP TO 20 FEET LONG. THE BARRIER MUST BE A MINIMUM OF 12" HIGH. AS MEASURED ON THE LIPHILL SIDE OF THE BARRIER AND A MINIMUM OF TWO FEET WIDE. ON LONGER OR STEEPER SLOPES, THE BARRIER SHOULD BE WIDER TO ACCOMMODATE THE ADDITIONAL RUNOFF. • FROZEN GROUND, OUTCROPS OF BEDROCK AND VERY ROOTED FORESTED AREAS ARE LOCATIONS

TERE BERMS OF EROSION CONTROL MIX ARE MOST PRACTICAL AND EFFECTIV OTHER BMPS SHOULD BE USED AT LOW POINTS OF CONCENTRATED RUNOFF, BELOW CULVERT OUTLET APRONS, AROUND CATCH BASINS AND CLOSED STORM SYSTEMS, AND AT THE BOTTOM OF STEEP PERIMETER SLOPES THAT ARE MORE THAN 50 FEET FROM TOP TO BOTTOM (I.E., A LARGE UP GRADIENT CONTRIBUTING WATERSHED).



EROSION MIX MUST BE INSTALLED SUPPORTED BY A MINIMUM OF 1 ROW OF HAY BALES UPSTREAM.

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

1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. 2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".

- 3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR REBARS FLOW DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER. 4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL
- 5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

ANGLE FIRST STAKE -

TOWARD PREVIOUSLY

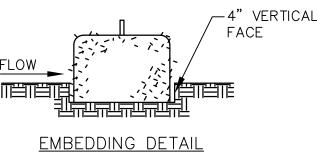
ANCHORING DETAIL

HAY BALE SEDIMENT BARRIER

NOT TO SCALE

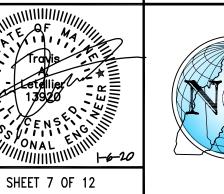
LAID BALE

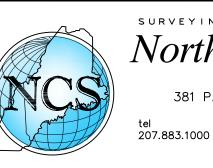
BE MADE PROMPTLY AS DIRECTED BY PROJECT ENGINEER.



WIRE OR NYLON BOUND HAY BALES PLACED ON THE CONTOUR REBARS, STEEL PICKETS OR 2"x 2" HARDWOOD STAKES DRIVEN 1 1/2' TO 2' IN GROUND

SMA | 1/6/20 | REVISED PER TOWN COMMENTS SMA 12/21/20 SUBMITTED FOR TOWN REVIEW ACAD FILE: 41878-DETAILS.DWG PROJECT NUMBER: 41878 SCALE: AS NOTED DATE: DECEMBER 21, 2020 EROSION & SEDIMENTATION CONTROL NOTES AND DETAILS FIELDING CONDOS ROOSEVELT TRAIL, WINDHAM, MAINE FIELDING'S OIL CO., INC.







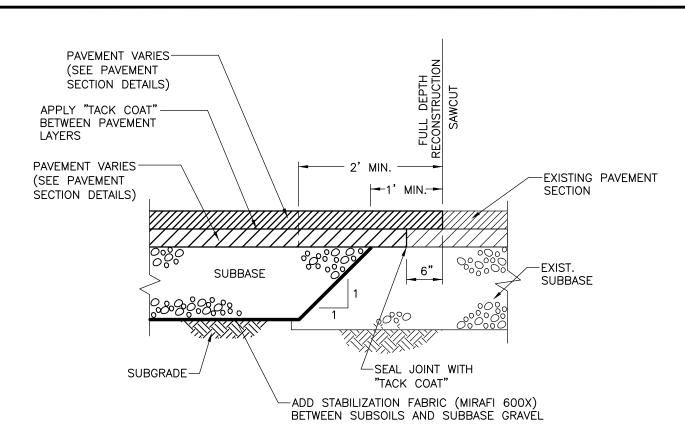
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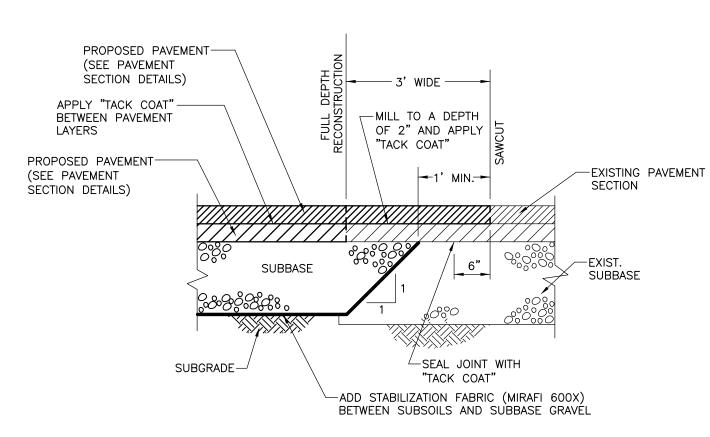
info@northeastcivilsolutions.com www.northeastcivilsolutions.com

MULCH BERM



NOTE: PER MDOT ITEM 403

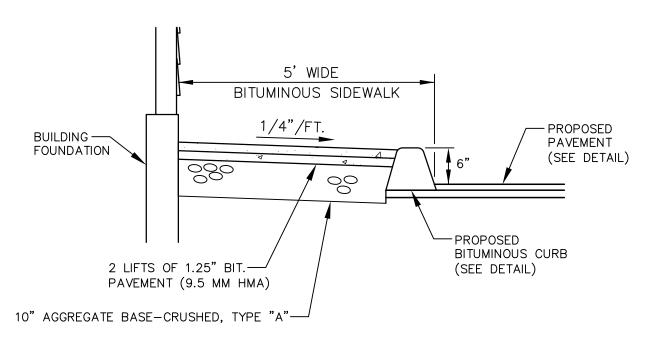
SAWCUT & PAVEMENT MATCH DETAIL



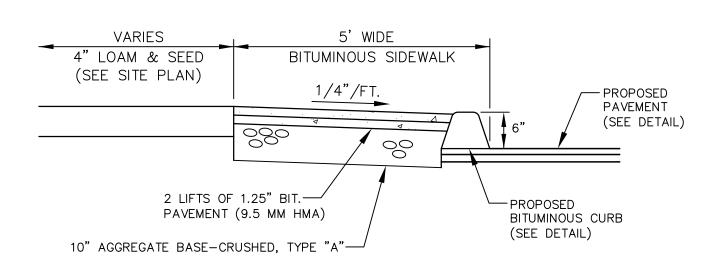
NOTE: PER MDOT ITEM 403

SAWCUT & PAVEMENT MATCH DETAIL (AT DRIVEWAY ENTRANCE)

N.T.S.

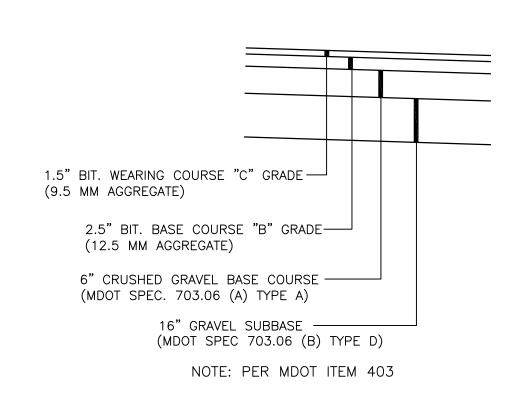


BITUMINOUS SIDEWALK DETAIL



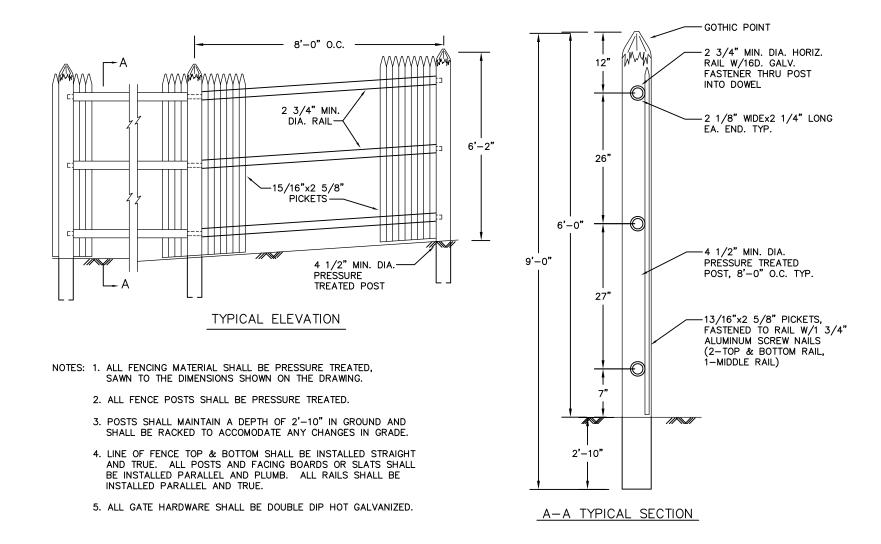
BITUMINOUS SIDEWALK DETAIL

N.T.S.

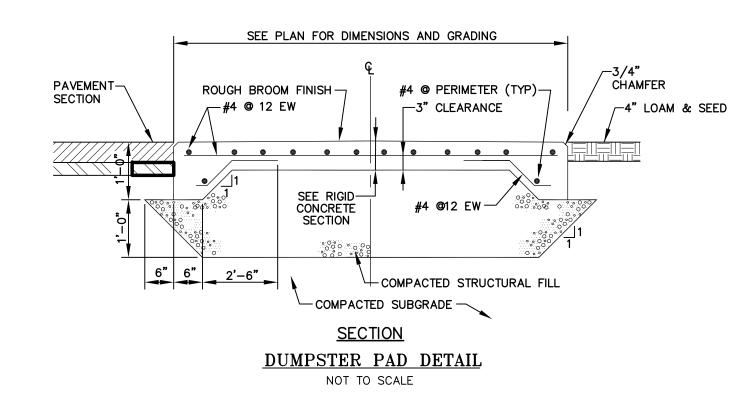


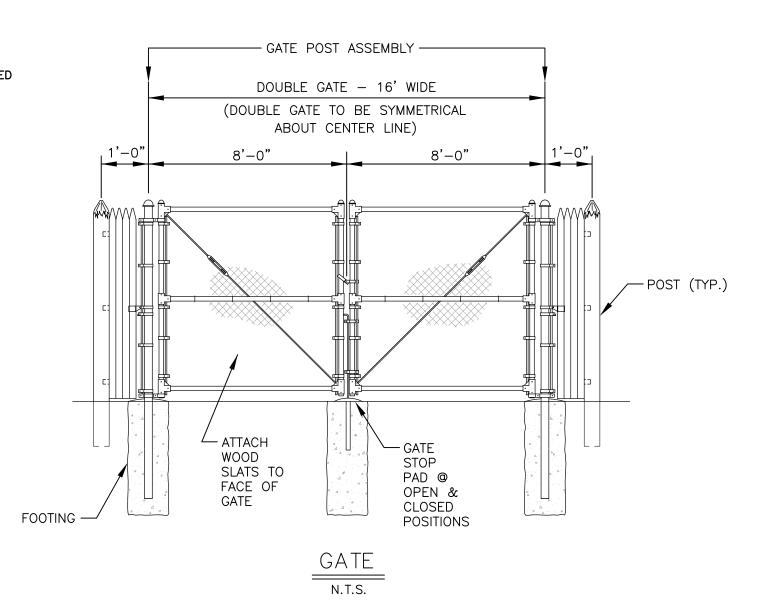
TYP. PAVEMENT SECTION (FULL DEPTH CONSTRUCTION)

NOT TO SCALE



STOCKADE FENCE DETAIL N.T.S.





FINISHED GRADE 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 GROUND WIRE -ANCHOR BOLTS. (PER LOCAL CODE) 3. FOR LOCATION, SEE PHOTOMETRIC PLAN.

LIGHT POLE BASE

EMBEDMENT DEPTH (BELOW GRADE)

CONCRETE DIAMETER

CHAMFER —

ANCHOR BOLTS-(PER POLE

MANUFACTURER'S

SPECIFICATIONS)

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

4'-6"

30"

[6" — WALKWAY AREAS

-WIRE & CONDUIT

(PER ELECTRICAL

PLANS)

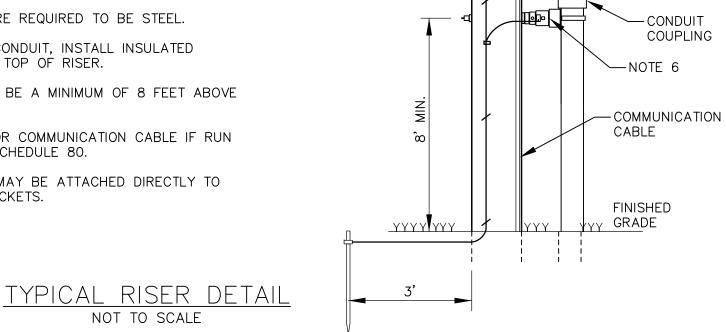
6" - UNPAVED AREAS WITH CURB PROTECTION

36" - PARKING/DRIVES WITHOUT CURB PROTECTION

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.

NOT TO SCALE



24" MAX.

NOTE 10-

NEUTRAL-

RISER

POLE

RISER

-WHEN USING

POSITION

BELL END SECURELY

OVER RIGID

CONDUIT

TYPICALLY

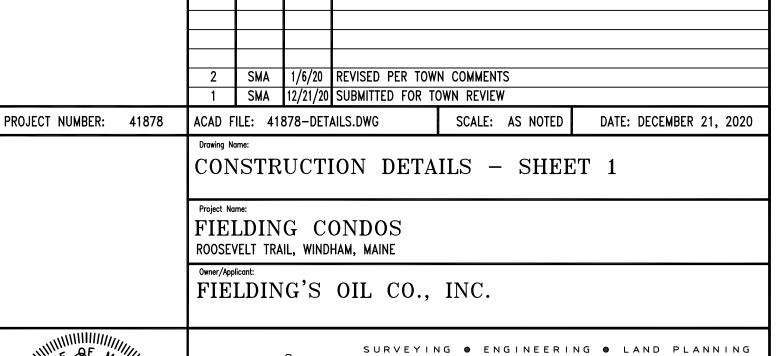
LOCATED ON

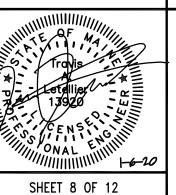
EITHER BACK

QUARTER OF

SEE SITE PLAN FOR FINISHED ORDINARY BORROW TRENCH SURFACE_ _ (M1.01.0) CONDUIT TYPE E 6" PVC ELECTRIC © 6" PVC CABLE (T) 6" PVC TELEPHONE -YELLOW WARNING TAPE (TYP) CLEAN SAND ALL MATERIAL SHALL BE COMPACTED MECHANICALLY

ALL TRENCH CONDUITS SHALL BE SCHEDULE 40 PVC, UNLESS OTHERWISE NOTED COMMON TRENCH DETAIL 1ø ELECTRIC/TELEPHONE/CABLE NOT TO SCALE





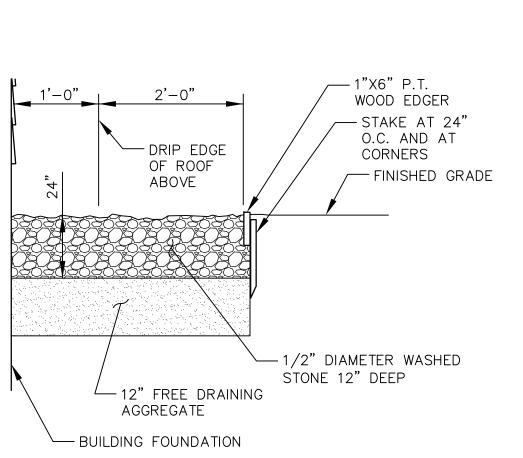


By: Date: Change:



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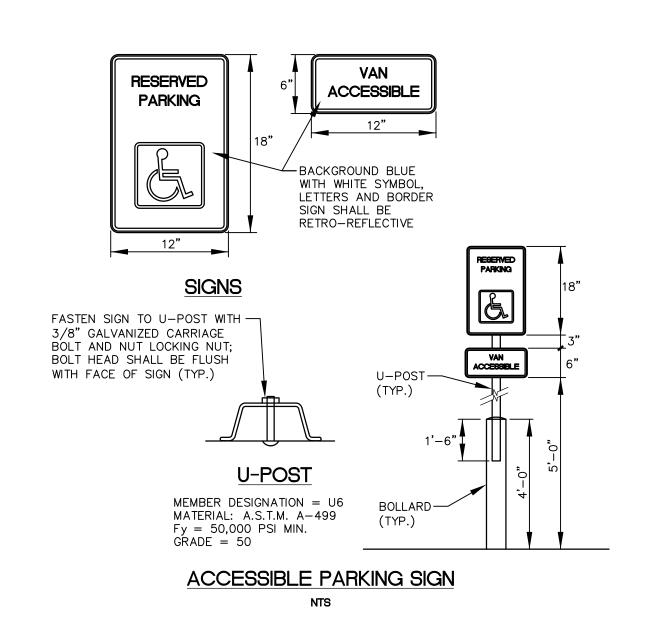


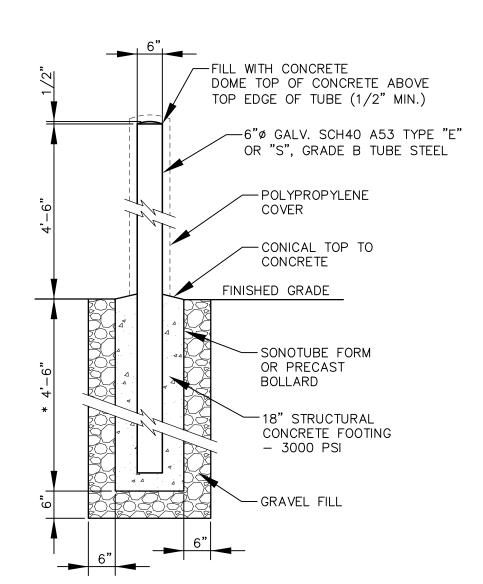
STONE DRIP EDGE INFILTRATION DETAIL

NOT TO SCALE

TRAFFIC SIGNS										
IDENTIFICATION	SIGN	SIGN	SIGN POST PER TEXT NUMBER OF			SIGN SQ.	REMARKS			
NUMBER	HEIGHT	WIDTH	SIGN		SIGNS REQ'D.	NOM. AREA	TOTAL AREA	NEWANNO		
R1-1	30"	30"	1	STOP	1	6.25	6.25	PER MUTCD		
R7-8	18"	12"	1	PARKING A	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



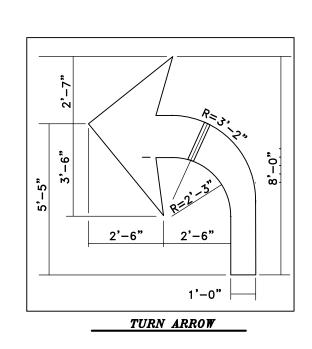


NOTES;

- 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



ALTERNATE

KNOCK OUTS

3 PLACES

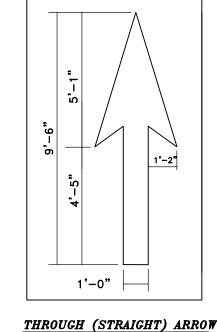
INLET

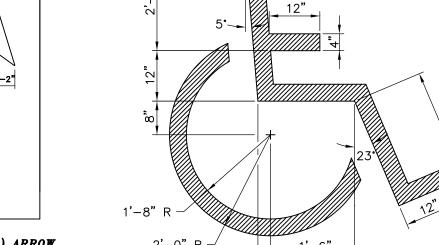
4" INLET¬

CAPACITY

(GALLONS)

1" TAPER¬→ 5" →





6"R¬

NOTE: PER MDOT ITEM 627 HANDICAPPED PAINTING

N.T.S.

BLUE REFLECTIVE PAINT

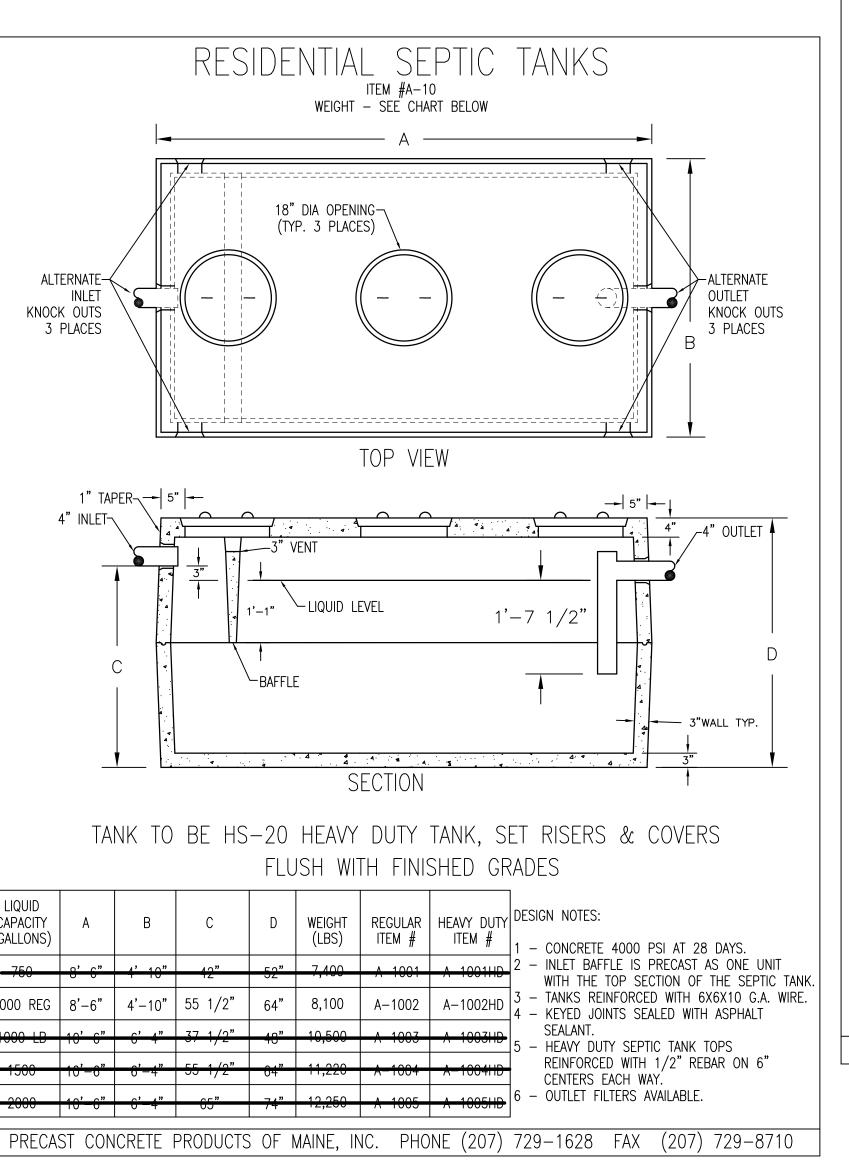
PAVEMENT MARKING NOTES .

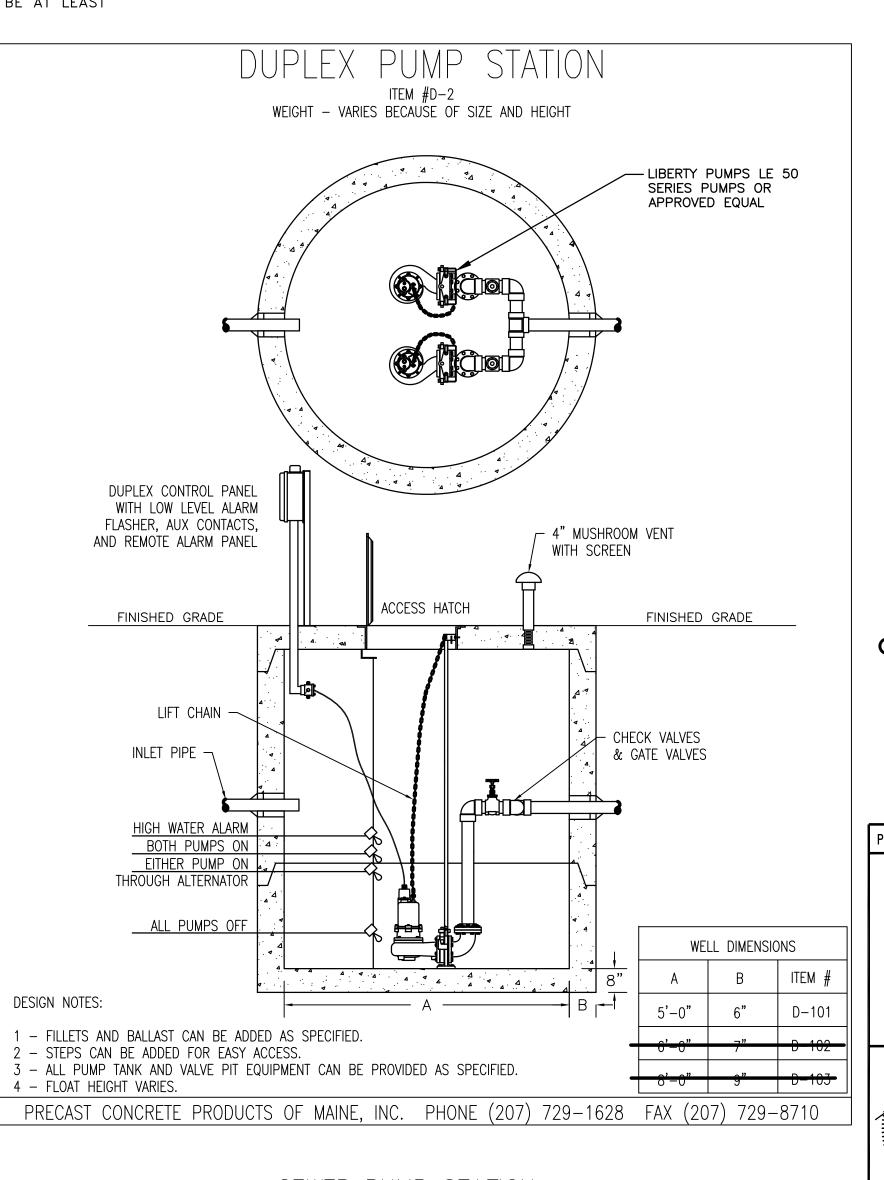
NOTE: PER MDOT ITEM 627

STRIPING ARROWS

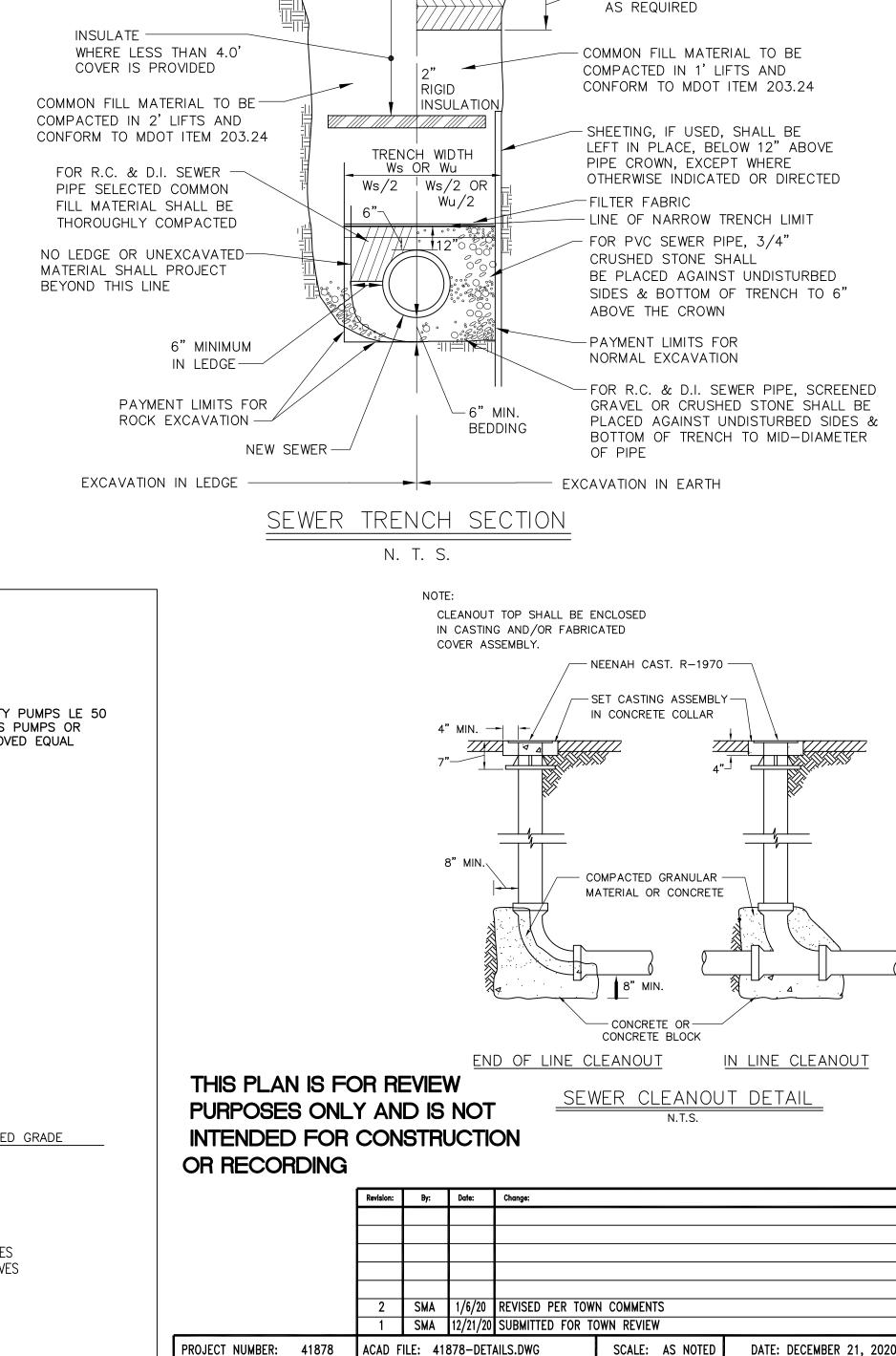
N.T.S.

- 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.





N. T. S.



CONSTRUCTION DETAILS - SHEET 2

Northeast Civil Solutions

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FIELDING CONDOS

ROOSEVELT TRAIL, WINDHAM, MAINE

SHEET 9 OF 12

FIELDING'S OIL CO., INC.

NOTES:

EXISTING GROUND SURFACE

1. TRENCHES LOCATED ON THE ROAD

AS STREET EXCEPT FOR PAVING

2. SATISFACTORY EXCAVATED MATERIAL

LINE OF NARROW TRENCH LIMIT.

FINAL GRADING -

SHOULDER SHALL BE TREATED THE SAME

CAN BE USED FOR BACKFILL ABOVE THE

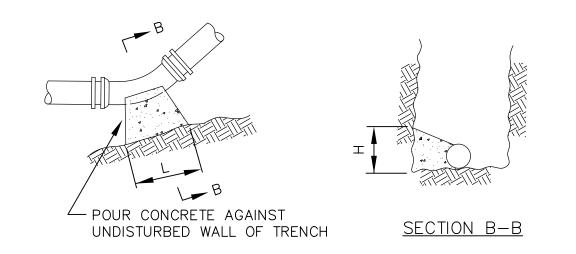
CROSS COUNTRY → STREET

TRENCH WIDTH DATA

-GRAVEL SUBBASE

-STREET PAVEMENT AS REQUIRED

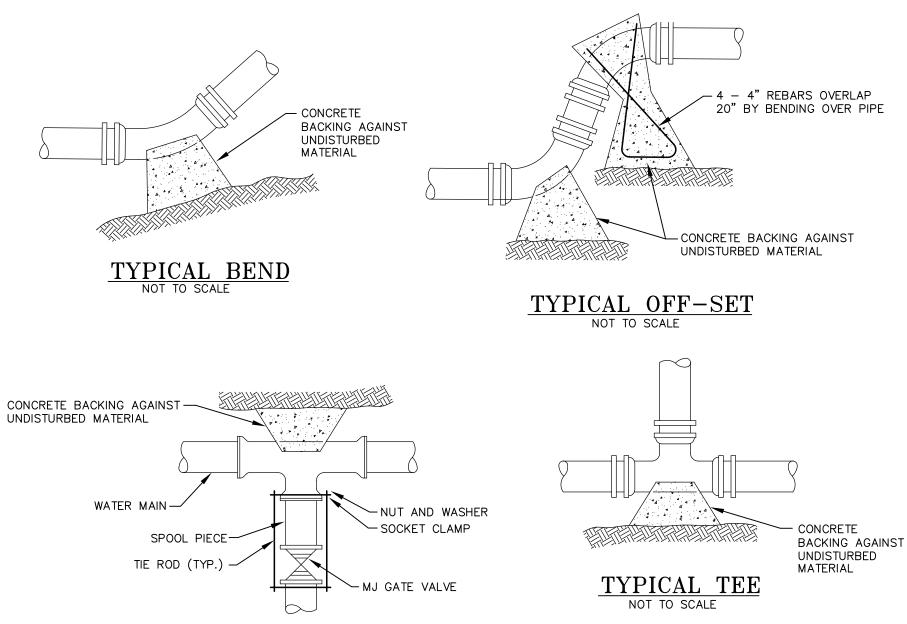
SEWER PUMP STATION



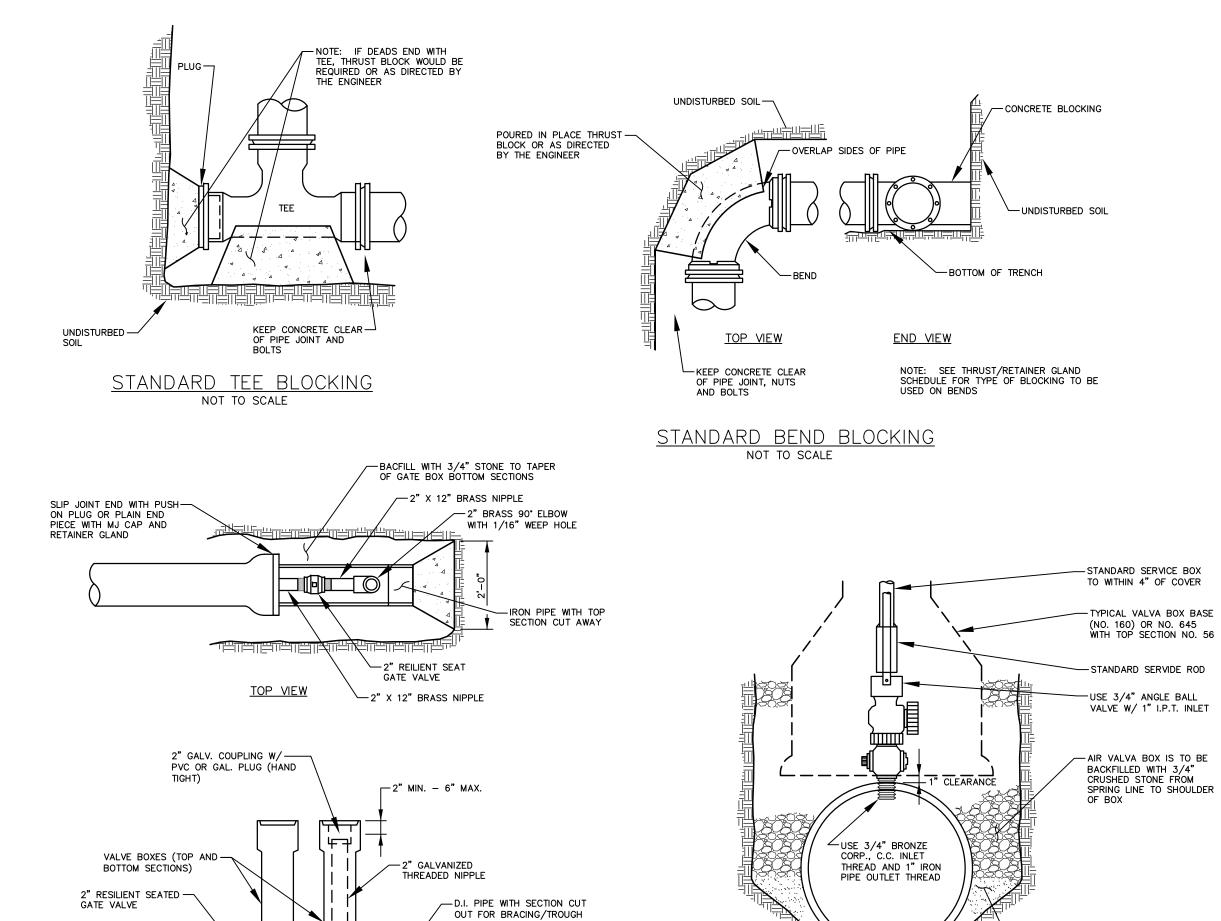
BEARING AREAS — SQUARE FEET												
NOMINAL		FITTING										
DIAMETER OF FITTING	DEAD END	BRANCH OF TEE	90° BEND	45° BEND	BEND SMALLER THAN 45° GREATER THAN 10°							
6"	6" 2		3	2	2							
8"	4	4	5	3	2							
10"	6	6	8	4	2							
12"	8	8	10	6	3							
14"	14" 12		16	9	4							
16"	12	12	20	10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

- 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 VALVE CONNECTION RESTRAINED JOINT TEE NOT TO SCALE



DIRECTED BY THE ENGINEER

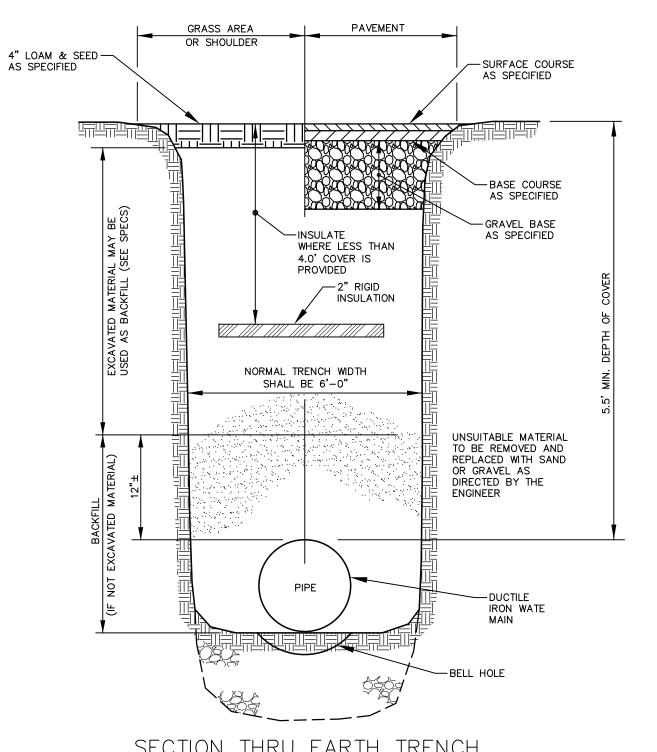
-1/16" NOMINAL DIAMETER WEEP HOLE LOCATED ON SIDE OF ELBOW BELOW IRON PIPE THREADS

STANDARD 2" BLOW OFF NOT TO SCALE

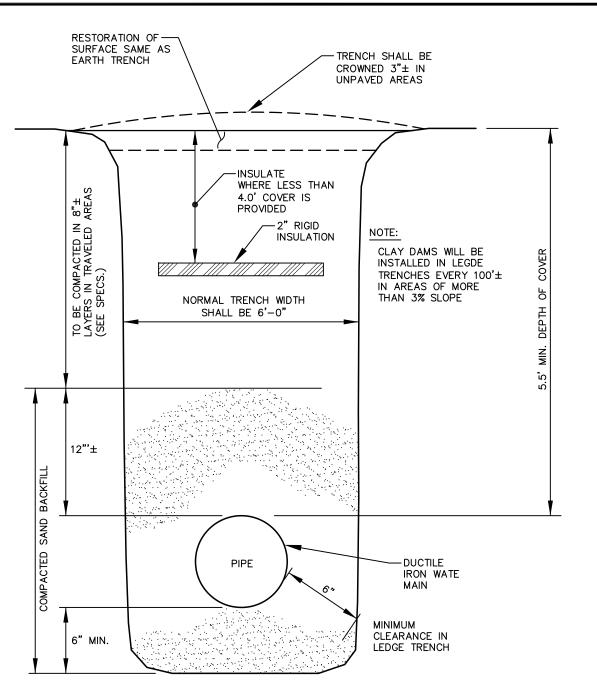
SAND/GRAVEL

TYPICAL AIR VALVE (1")

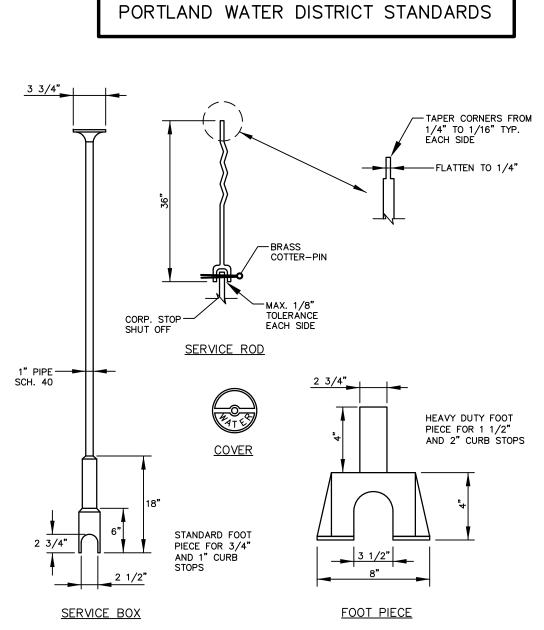
NOT TO SCALE



SECTION THRU EARTH TRENCH NOT TO SCALE

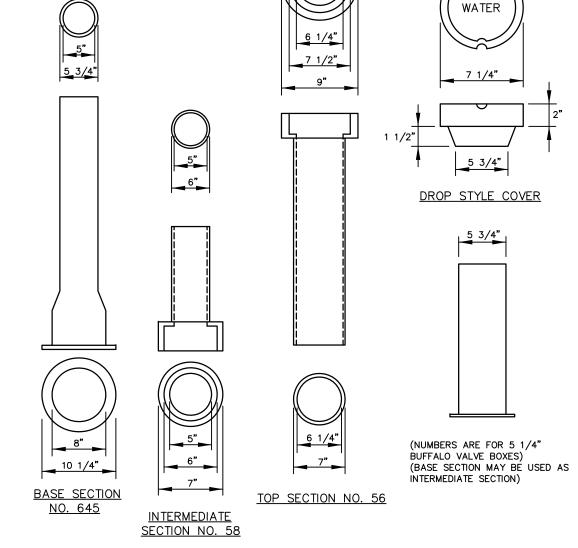


SECTION THRU LEDGE TRENCH



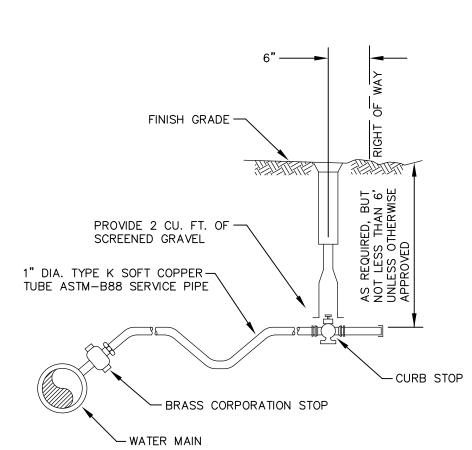
ALL WATER LINE WORK TO MEET

NOTE: ANY EXTENSION OF SERVICE BOX REQUIRES A COUPLING & 1" THREADED PIPE

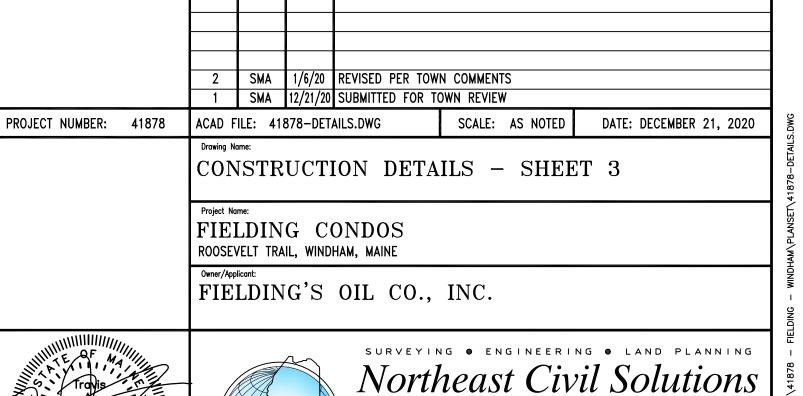


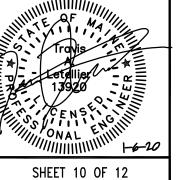
VALVE BOX & COVER NOT TO SCALE

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TYPICAL WATER SERVICE CONNECTION



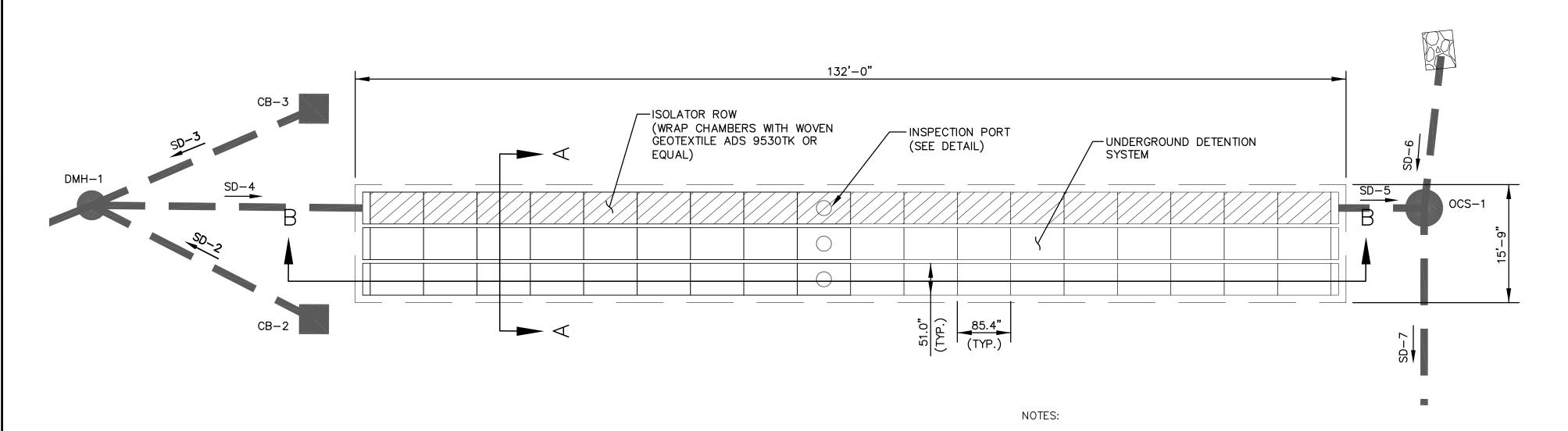




Revision: By: Date: Change:



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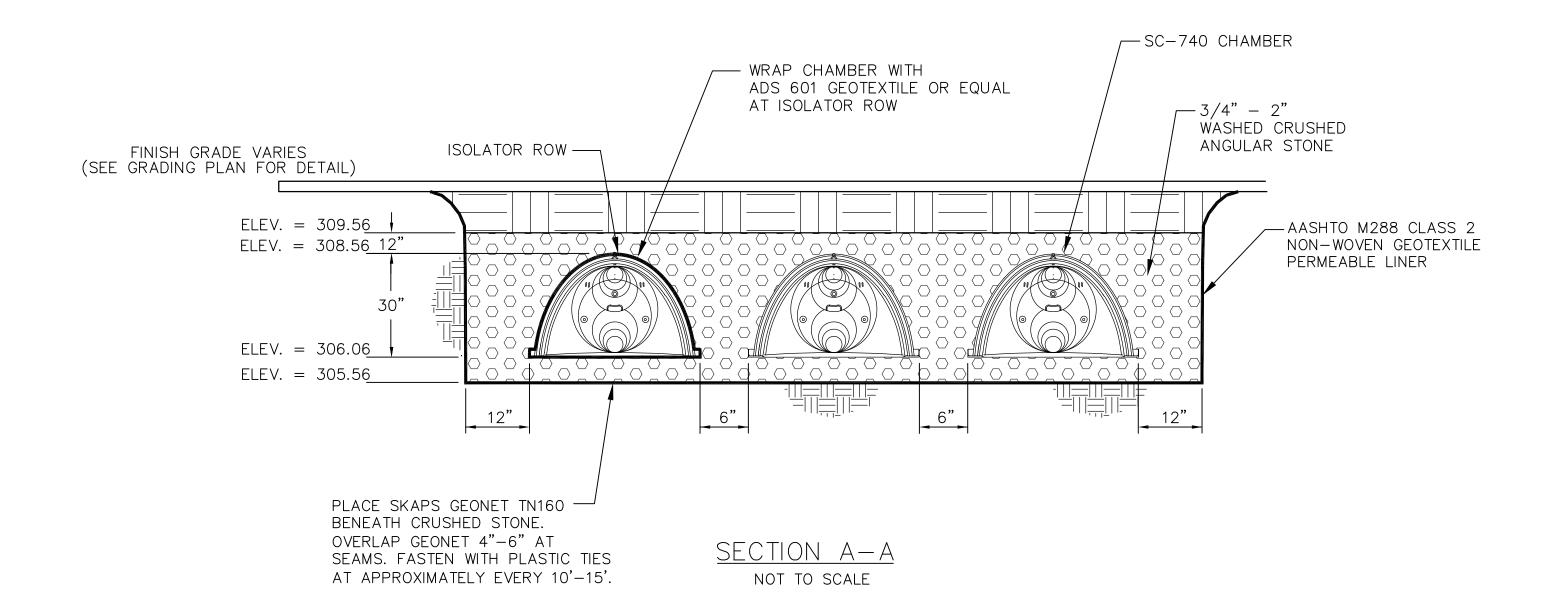
STORMWATER TREATMENT SYSTEM

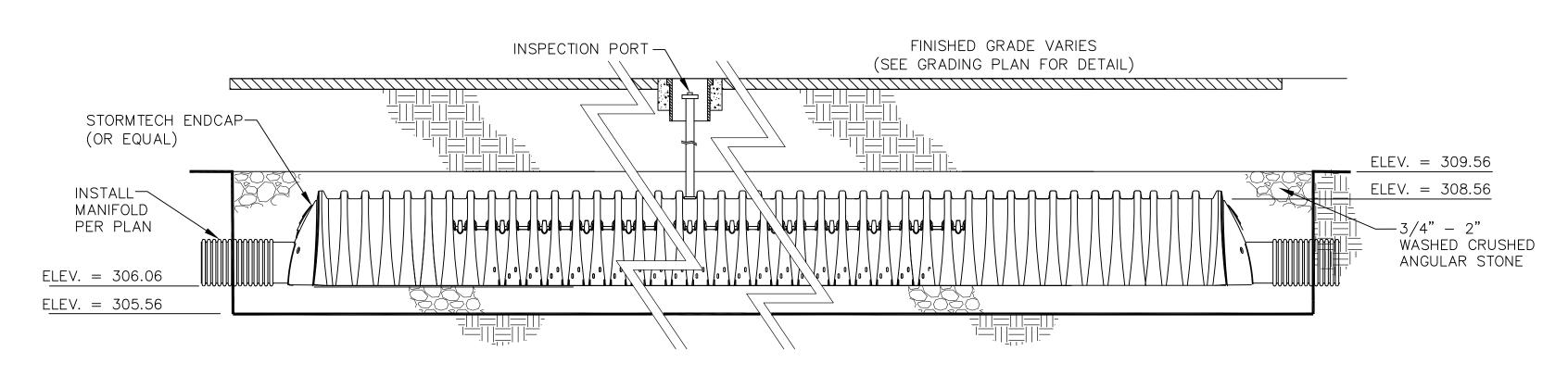
SCALE: 1" = 10

 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".





SECTION B-B
NOT TO SCALE

1	ABLE 7-3 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				

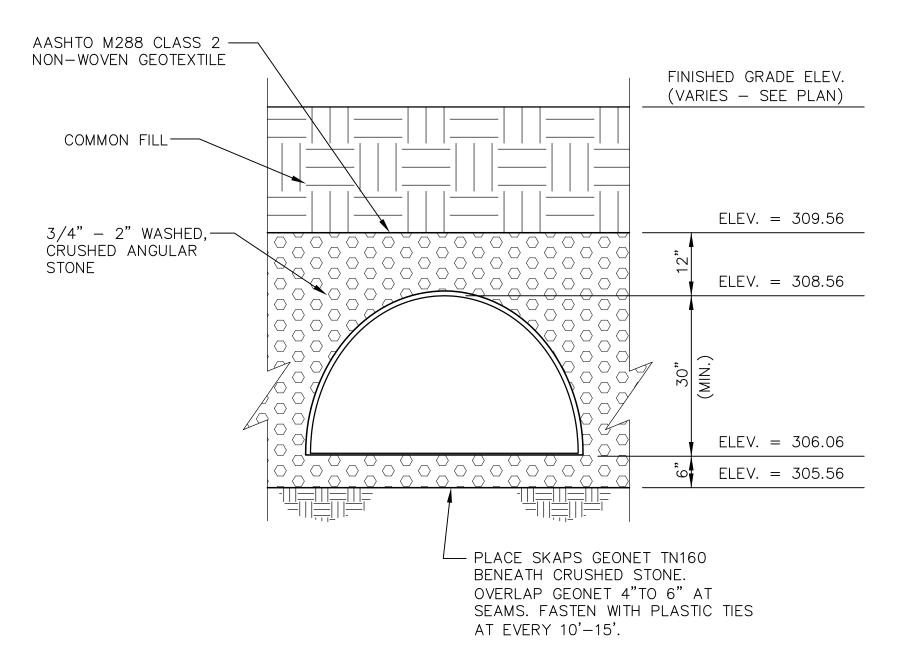
MAINE DOT SPECIFICATION AGGREGATE MDOT #703.01

ME DOT SPEC	TABLE 7-1 ME DOT SPECIFICATIONS FOR UNDERDRAINS (ME DOT #703.22)								
SIEVE SIZE	% BY WEIGHT								
UNDERDR	UNDERDRAIN TYPE B								
1"	90–100								
1/2"	75–100								
#4	50-100								
#20	15-80								
#50	0-15								
#200	0-5								
UNDERDR	AIN 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.



UNDERGROUND DETENTION CROSS SECTION NOT TO SCALE

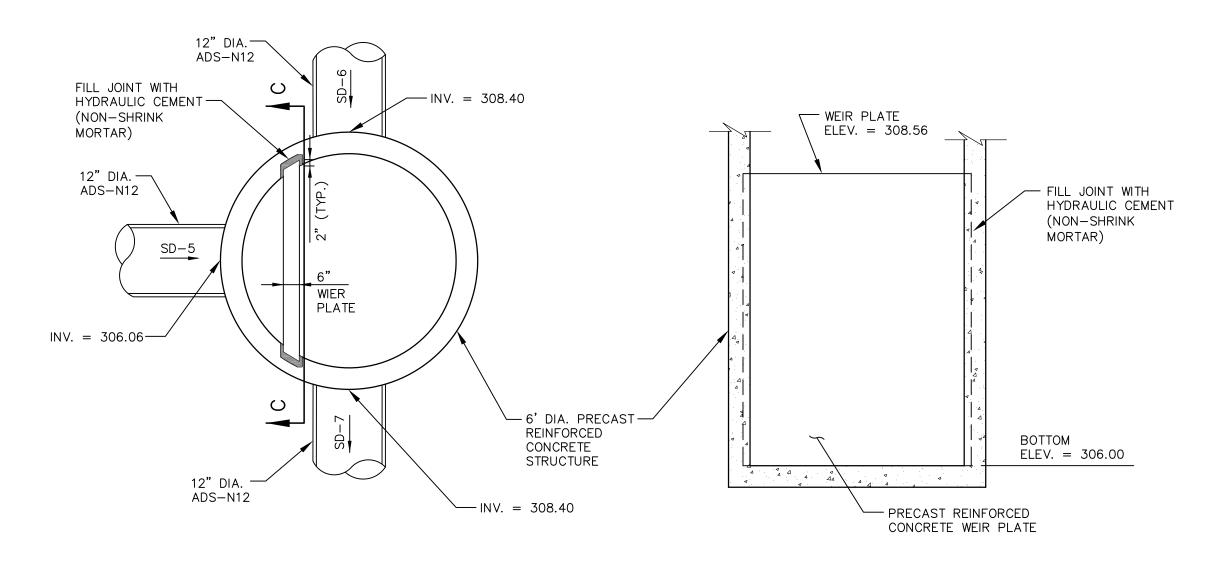
THIS PLAN IS FOR REVIEW
PURPOSES ONLY AND IS NOT
INTENDED FOR CONSTRUCTION
OR RECORDING

	Revision:	Ву:	Date:	Change:		
	2	SMA	1/6/20	REVISED PER TOWN COMMENTS		
	1	SMA		SUBMITTED FOR TOWN REVIEW		
PROJECT NUMBER: 41878	ACAD F	ILE: 41	878-UG-	-DET.DWG SCALE: AS NOTED DATE: DECEMBER 21, 2020		
	Drawing No	ıme:		·		
	UNI	ERG	ROU	JND DETENTION DETAILS — SHEET 1		
	Project No			ONDOC		
				ONDOS DHAM, MAINE		
	Owner/App		aiL, WIND	ONDOS OHAM, MAINE		
			G'S	OIL CO., INC.		
			u D			
WILLIAM TE OF MA MA			<u>4</u>	SURVEYING • ENGINEERING • LAND PLANNING		
fravis my				Northeast Civil Solutions INCORPORATED 381 PAYNE ROAD, SCARBOROUGH, MAINE 04074 tel fax e-mail / website 207 883 1000 207 883 1001 info@portheastcivilsolutions.com		
Totallier *				INCORPORATED		
381 PAYNE ROAD, SCARBOROUGH, MAINE 04074						
CENSE		2		tel fax e—mail / website		
MINIMUM -6-20				207.883.1000 207.883.1001 info@northeastcivilsolutions.com www.northeastcivilsolutions.com		
***************************************	1		-	0 10' 20' 40'		
SHEET 11 OF 12				www.northeastcivilsolutions.com 0 10' 20' 40'		

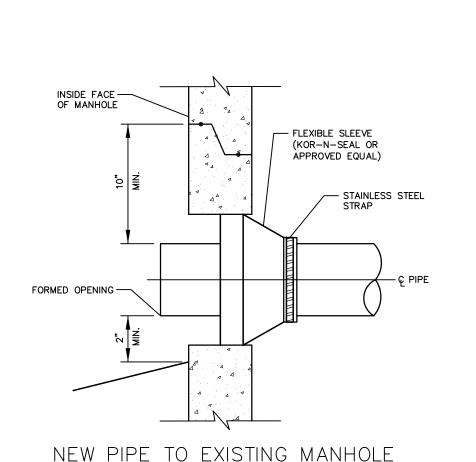
ISOLATOR ROW DETAIL

NOT TO SCALE

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.

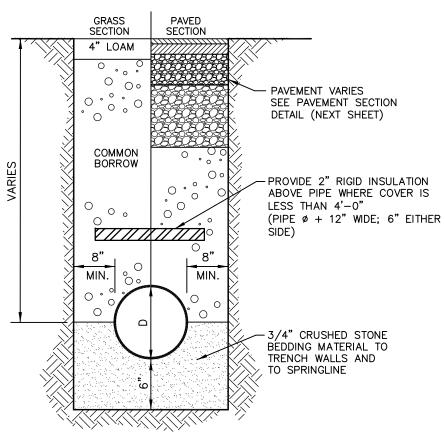


OUTLET CONTROL STRUCTURE OCS-1 NOT TO SCALE SECTION C-C (WEIR PLATE) NOTE: STRUCTURE TO BE DESIGNED TO WITHSTAND HS-20 LOADING NOT TO SCALE



CONNECTION DETAIL - 4" TO 24"

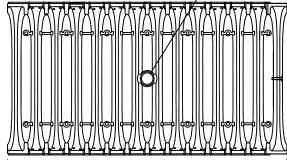
NOT TO SCALE



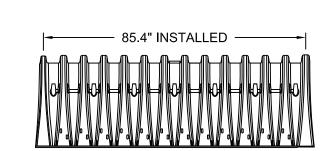
NOTE: ALL MATERIAL SHALL BE COMPACTED TO 95% OF THE MAXIMUM PROCTOR DENSITY (MODIFIED) PER MDOT ITEM 603

TYPICAL STORM DRAIN TRENCH SECTION NOT TO SCALE

ACCEPTS 4" SCH 40 PIPE FOR CLEANOUT OR INSPECTION PORT



—— 90.7" ACTUAL LENGTH ——



51.0" x 30.0" x 85.4" 45.9 CUBIC FEET 74.9 CUBIC FEET 75 LBS.

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

NOMINAL CHAMBER SPECIFICATIONS

SIZE (W x H x INSTALLED LENGTH)

MINIMUM INSTALLED STORAGE

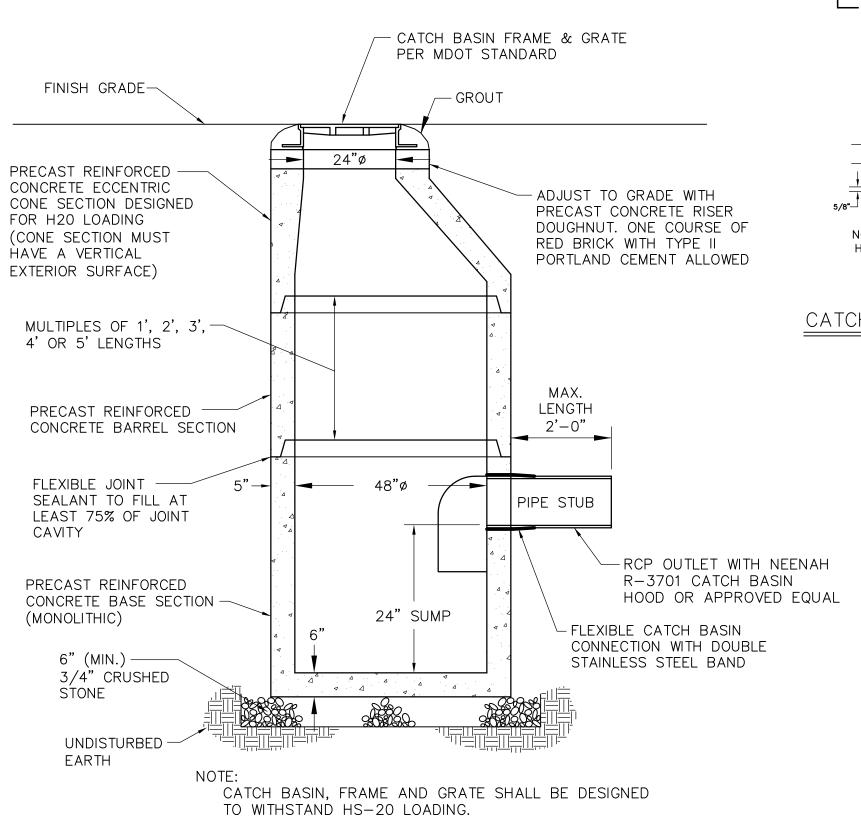
CHAMBER STORAGE

STUBS AT BOTTOM OF END CAP FOR PARTS NUMBERS ENDING WITH

PART #	CHAMBER	PIPE SIZE	Α Α	В	С	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 DIMENS	IONS ARE NOMINAL					
ALL STUBS, EXCEPT SC740EPE24B ARE BOTTOM OF END CA THE OUTSIDE DIAME IS FLUSH WITH THE END CAP. FOR AI INFORMATION CONTA AT 1-888-892-269	PLACED AT AP SUCH THAT TER OF THE STUB BOTTOM OF THE DDITIONAL ACT STORMTECH	BELOW THE BOTTO APPROXIMATELY 1 SHOULD BE REMO	740EPE24B THE 24" STUE DM OF THE END CAP .75". BACKFILL MATERIAL VED FROM BELOW THE N- HE FITTING SETS LEVEL.			

SC-740 TECHNICAL DETAILS

NOT TO SCALE

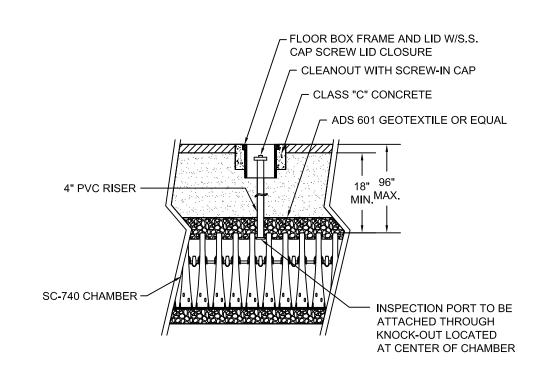


PER MDOT ITEM 604. PRECAST CONCRETE CATCH BASIN DETAIL

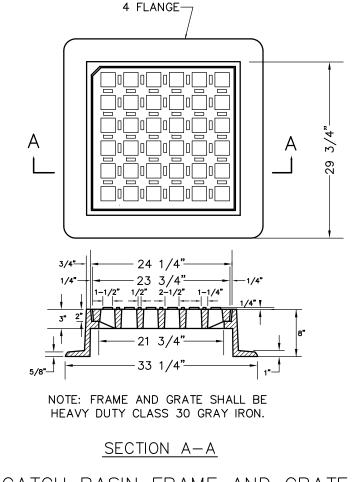
ACCEPTABLE FILL MATERIALS STORMTECH SC-740 CHAMBER SYSTEMS

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 MATERIA 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 3/4 - 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 3/4 - 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

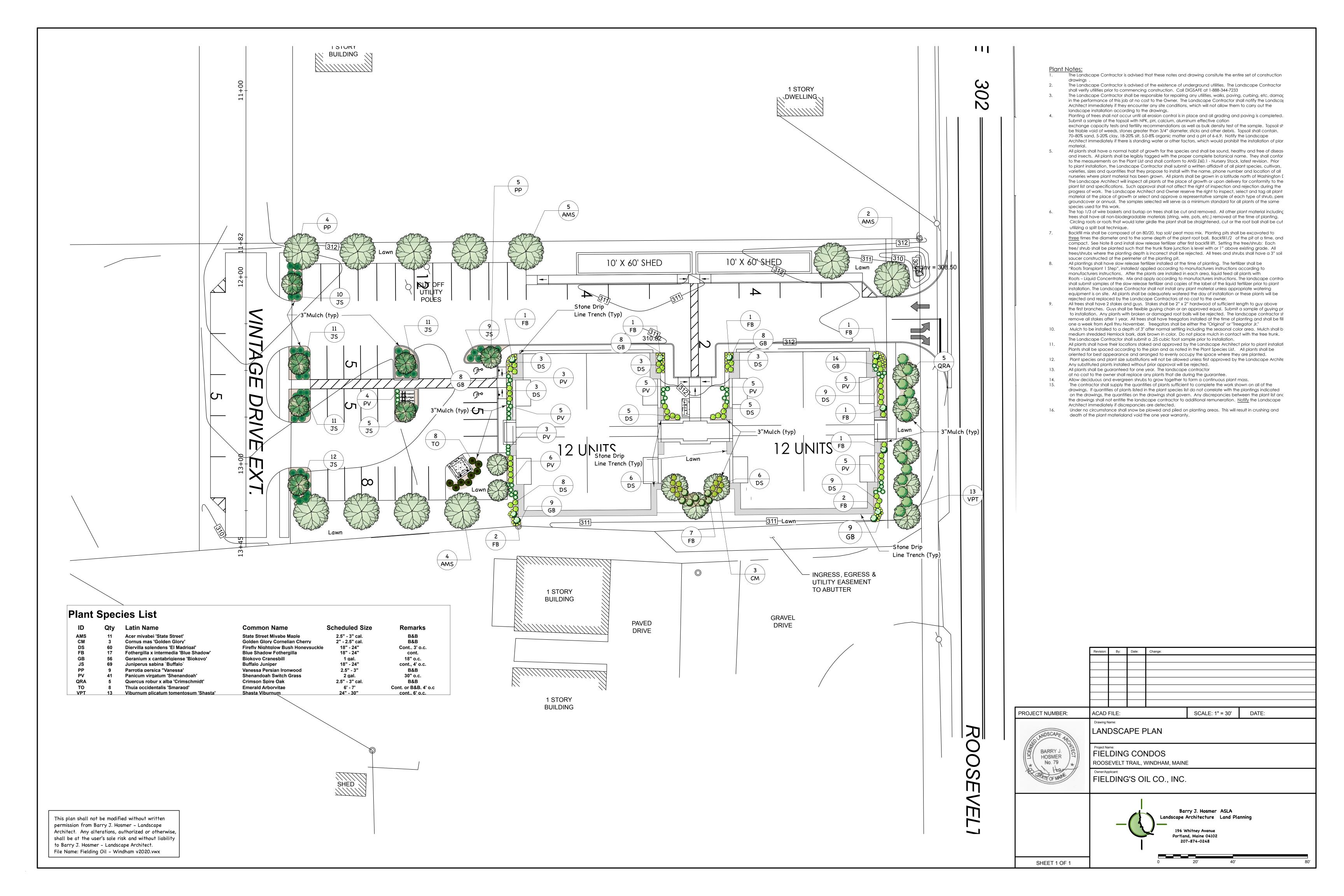


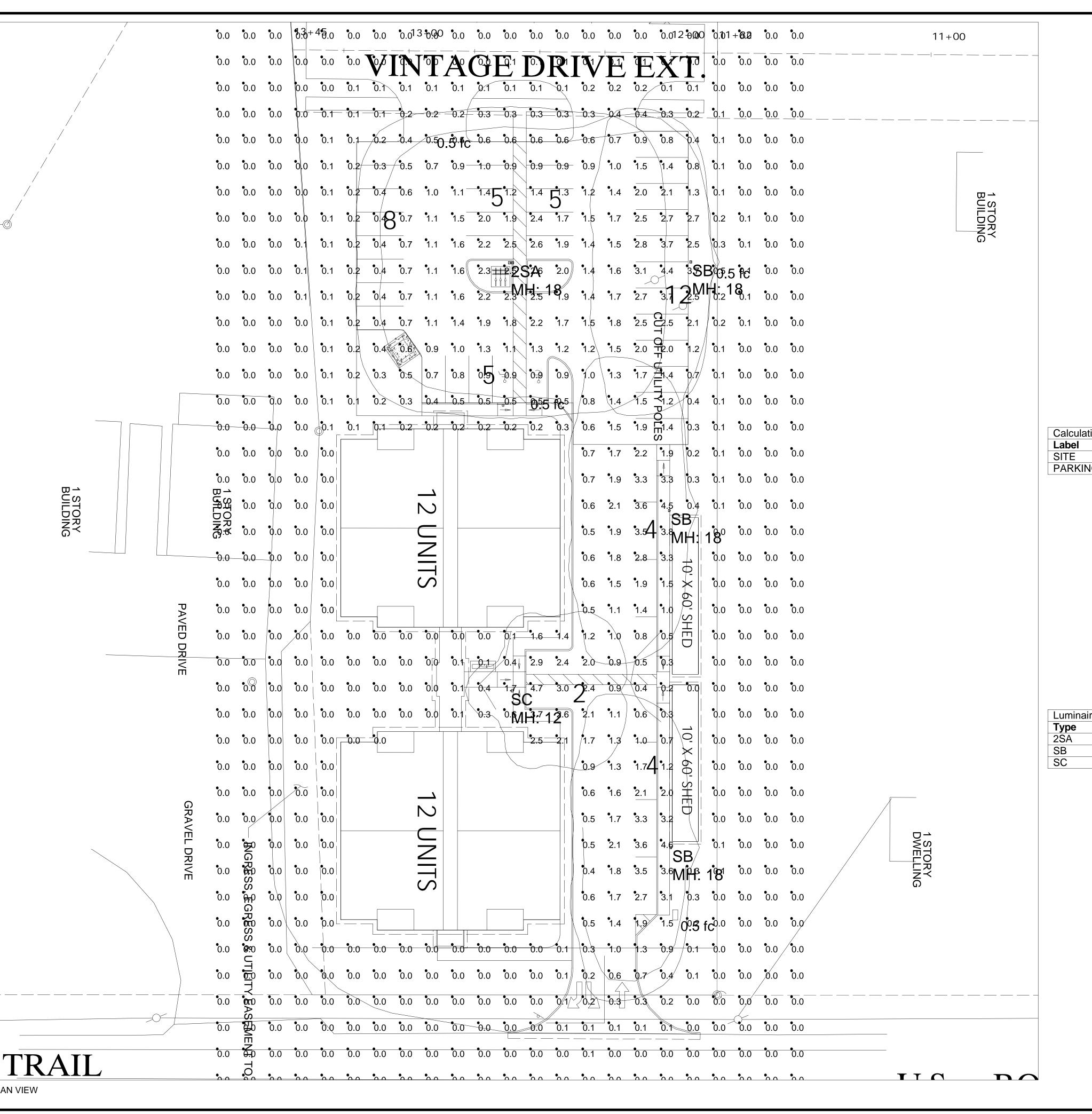
CATCH BASIN FRAME AND GRATE N.T.S.

SHEET 12 OF 12

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	Revision:	Ву:	Date:	Change:		
	2	SMA	1/6/20	REVISED PER TOWN	COMMENTS	
	1	SMA		SUBMITTED FOR TOV		
PROJECT NUMBER: 41878	ACAD F	ILE: 41	878-UG-	-DET.DWG	SCALE: AS NOTED	DATE: DECEMBER 21, 2020
	UNDERGROUND DETENTION DETAILS - SHEET 2					
		LDIN		ONDOS HAM, MAINE		
	Owner/App FIE		G'S	OIL CO.,	INC.	
Trovis Trovis A HILL 13920 - HI		NO			east Ci	VIL Solutions RATED OROUGH, MAINE 04074
MINGS OF ENSURE AND STATE OF THE PARTY OF TH				tel 207.883.1000	fax 207.883.1001	e—mail / website info@northeastcivilsolutions.com www.northeastcivilsolutions.com





PLAN VIEW

NOTES:

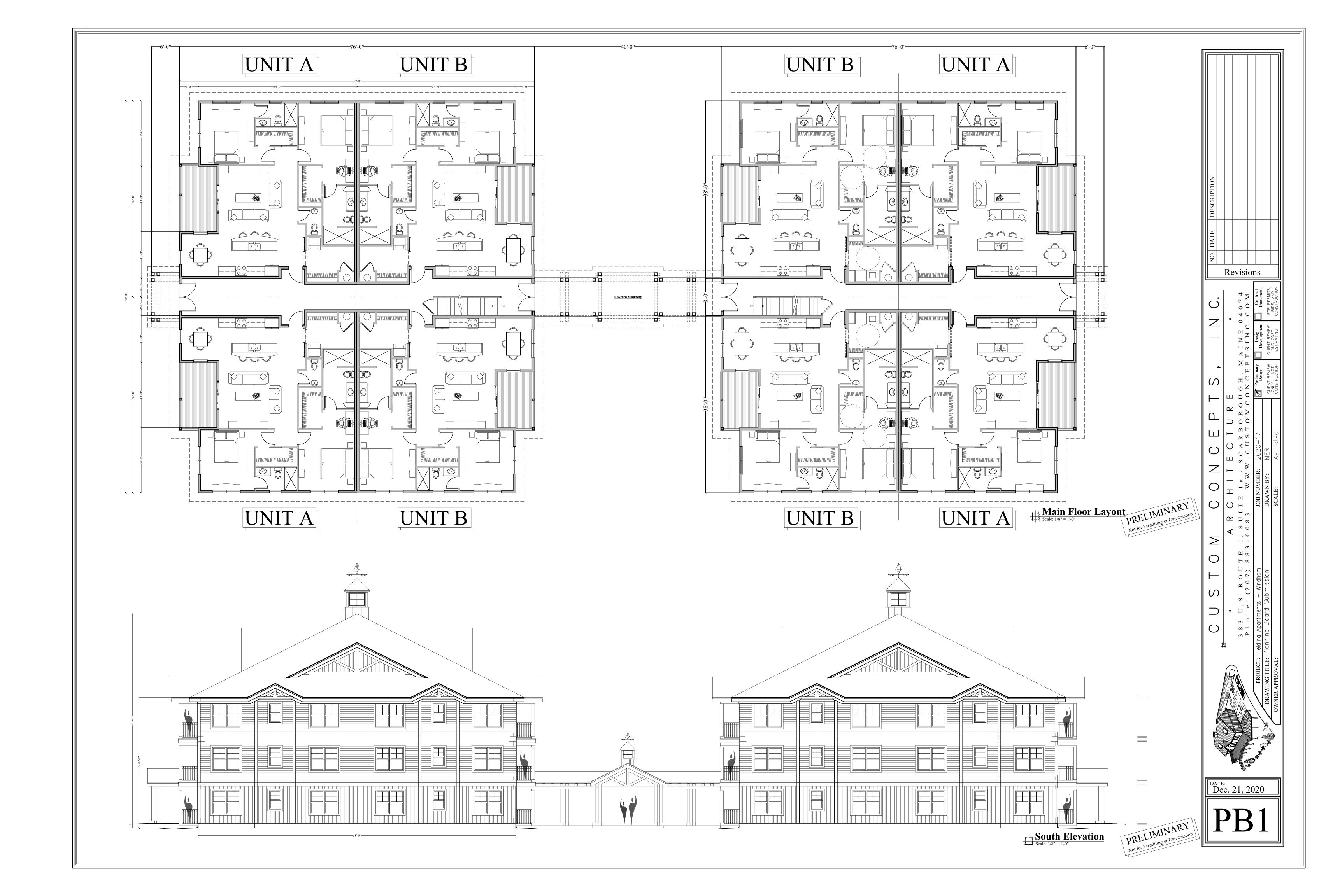
1) EXACT MOUNTING DETAILS TO BE DETERMINED AT JOBSITE BY OTHERS

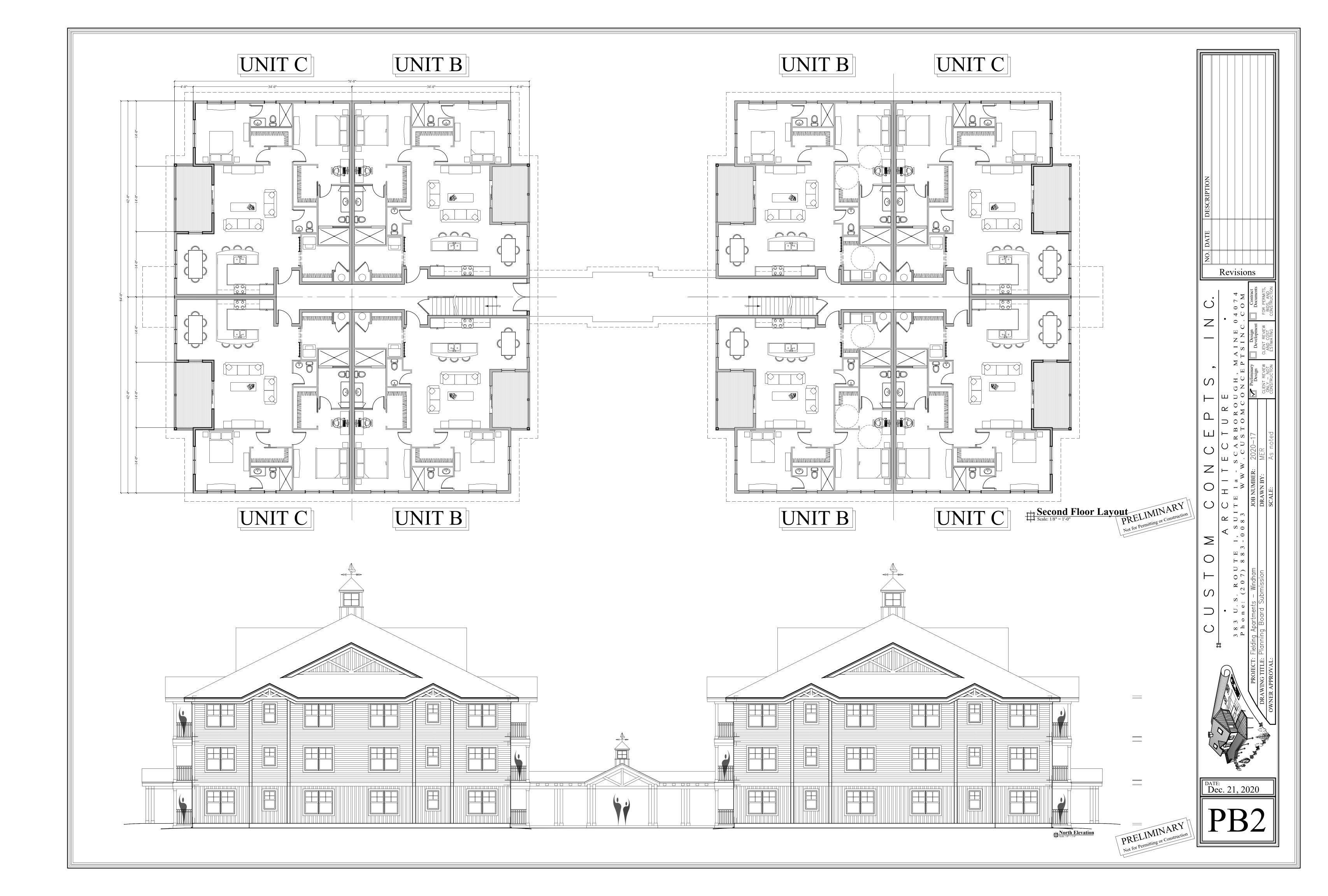
APPEAR AT OTHER THAN THE DESIRED OR ASSUMED GRAPHIC SCALES. IT IS THE RESPONSIBILITY OF THE RECIPIENT TO VERIFY THAT THE PRINTED OR PLOTTED-TO-SCALE DRAWING IS PRINTED TO SCALE.

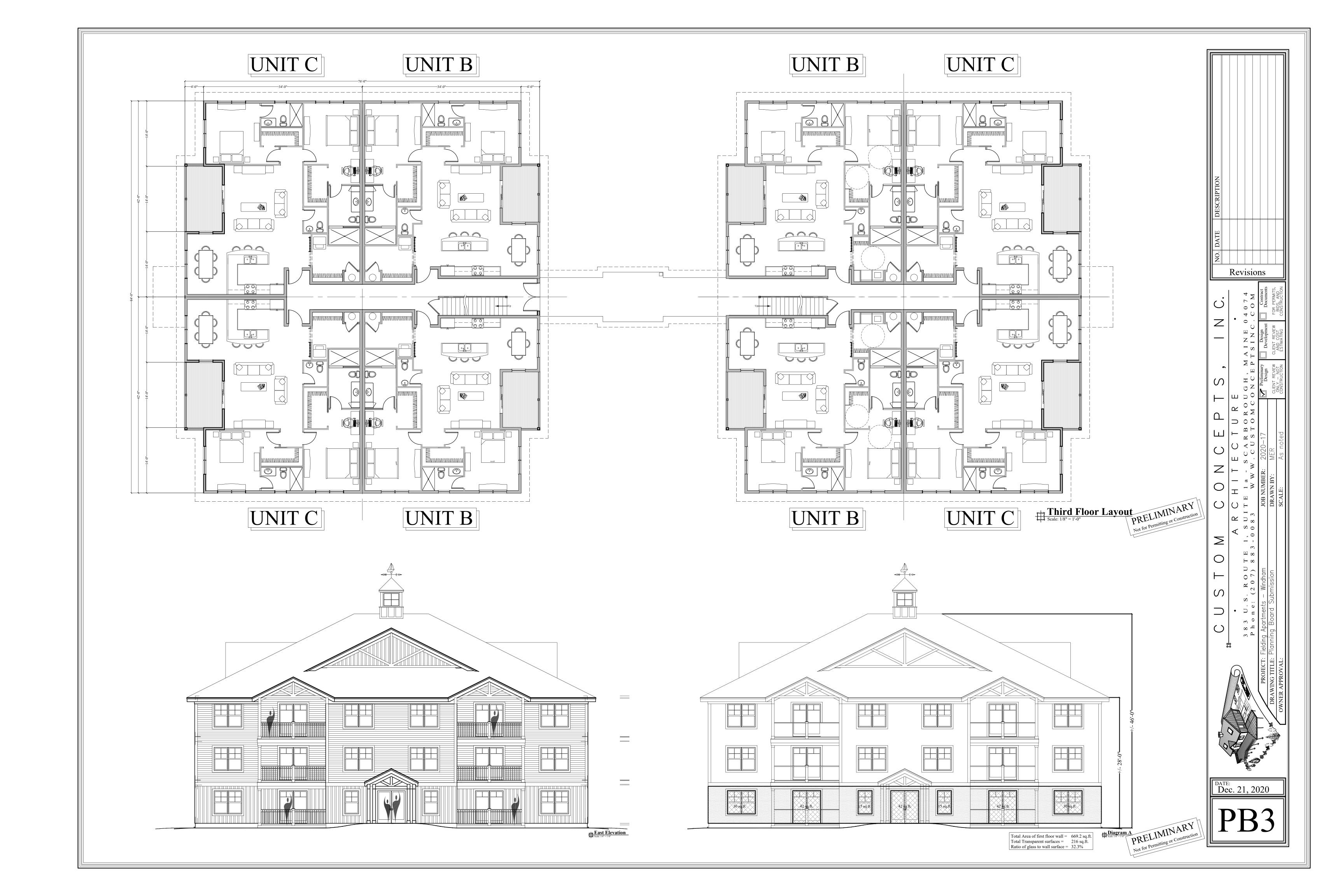
Calculation Summary							
Label	Avg	Max	Min	Avg/Min	Max/Min		
SITE	0.44	4.7	0.0	N.A.	N.A.		
PARKING	1.45	4.4	0.3	4.83	14.67		
			-	•			

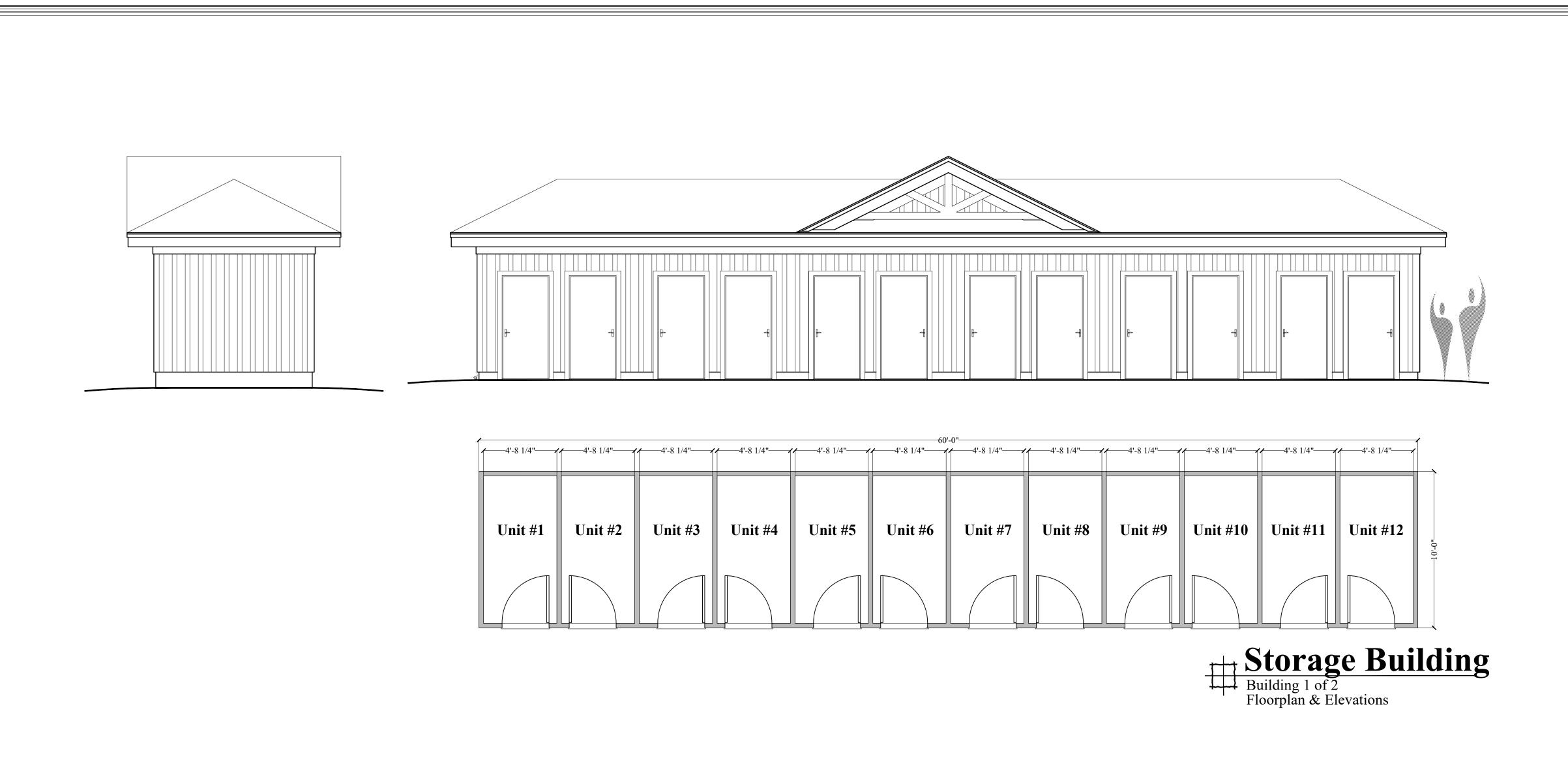
Luminaire Schedule (note fixture cataloge numbers are not complete)									
Type	Qty	Lum. Lumens	LLF	Lum. Watts	Description				
2SA	1	7908	0.900	80.52	TWIN VP-S-36L-80-3K7-4W				
SB	3	7516	0.900	109.78	VP-S-48L-110-3K7-3-BC				
SC	1	5400	0.900	54	VP-S-24L-55-3K7-4				

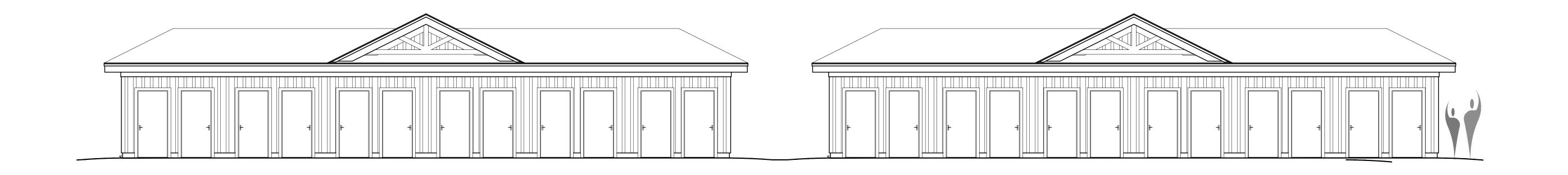
WANEY LIGHTING ASSOCIATES, INC











Revisions \circ S \bigcirc

Dec. 21, 2020

PRELIMINARY

Not for Permitting or Construction

