

COLONIAL PHARMACY

NEW LONDON, NEW HAMPSHIRE

SEPTEMBER 2016

APPLICANT:
COLONIAL PHARMACY
P.O. BOX 10
NEW LONDON, NH 03257
(603) 526-2233

CIVIL ENGINEER:

horizons
Engineering Inc.

WILLIAM T. DAVIS, P.E.
176 NEWPORT ROAD
NEW LONDON, NH 03257
(603) 877-0116



ARCHITECT:

FRANK ANZALONE ASSOCIATES
P.O. BOX 1016
NEW LONDON, NH 03257
(603) 526-8922

SURVEYOR:

PIERRE J. BEDARD, P.C.
P.O. BOX 238
WILMOT, NH 03284
(603) 526-4928

WETLANDS & SOILS SCIENTIST:

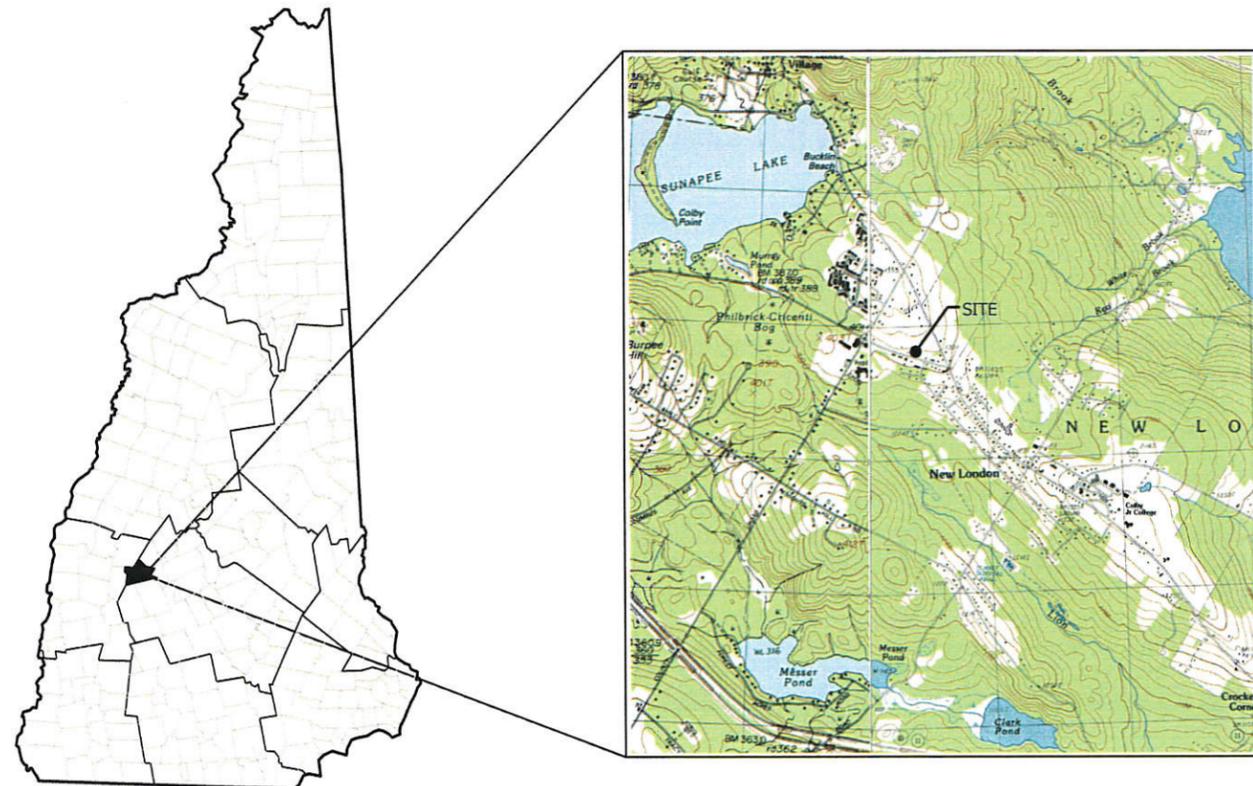
BEAVERTRACKS, LLC
21 HALE HILL ROAD
SWANZEY, NH 03446
(603) 313-4925

ELECTRICAL ENGINEER:

RENO ENGINEERING
1 RENO ROAD
MARLOW, NH 03546
(603) 446-3426

LANDSCAPE ARCHITECT:

WENDY ANDERSON, ASLA
287 OLD BAY ROAD
NEW DURHAM, NH 03855
(603) 581-5756



NEW HAMPSHIRE

LOCATION PLAN

SCALE: 1" = 2000'

SHEET LIST

C101 EXISTING CONDITIONS PLAN

C201 GRADING, DRAINAGE, & UTILITY PLAN

C202 LAYOUT PLAN

C203 SEDIMENT & EROSION CONTROL PLAN

C204 SEWER PLAN & PROFILE

C301 SEDIMENT & EROSION CONTROL NOTES AND DETAILS

C302 SEDIMENT & EROSION CONTROL NOTES AND DETAILS

C303 SANITARY SEWER & WATER SYSTEM NOTES AND DETAILS

C304 SANITARY SEWER & WATER SYSTEM NOTES AND DETAILS

C305 DETAILS

C306 DETAILS

A-1.1 LOWER LEVEL PLAN

A-1.2 FIRST FLOOR PLAN

A-1.3 ROOF PLAN

A-2.1 EXTERIOR ELEVATIONS

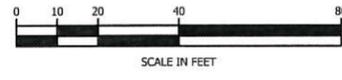
LA-1 LANDSCAPING PLAN & DETAILS

L-1 SITE LIGHTING PLAN

TOWN OF NEW LONDON
SELECTMEN'S OFFICE

SEP 20 2016

RECEIVED



LEGEND

- STONEWALL
- TREELINE
- 1" IRON PIPE (FOUND)-OR AS NOTED
- GRANITE BOUND (FOUND)-OR AS NOTED
- 3/4" IRON ROD (SET)-OR AS NOTED
- SURVEY CONTROL POINT
- DEED CALL
- UTILITY POLE AND NUMBER
- EDGE OF PAVEMENT
- TOWN BUILDING SETBACK BOUNDARY LINE
- MAJOR CONTOUR
- MINOR CONTOUR
- SEWER MANHOLE
- WATER VALVE
- CATCH BASIN

NOTES

1. THIS PLAN IS THE RESULT OF A LEICA ROBOTIC TOTAL STATION SURVEY, JULY, 2013, HAVING A CONTROL TRAVERSE RELATIVE ERROR OF CLOSURE GREATER THAN 1:15,000 (NH CATEGORY 1, CONDITION 1, URBAN). SURVEY WAS PREPARED BY PIERRE J. BEDARD, P.C.
2. DEED REFERENCE TO TAX MAP 059-030-000 IS MCR BK. 3383, PG. 114. 4/30/2013. DEED REFERENCE TO TAX MAP 059-031-000 IS MCR BK. 3003, PG. 663. 7/13/2007.
3. THIS PROPERTY IS LOCATED IN THE C COMERCIAL ZONING DISTRICT. STRUCTURE SETBACKS ARE FRONT YARD 30 FEET REAR AND SIDE YARD 10 FEET.
4. FEMA FLOOD ZONE DETERMINATION; THIS PROPERTY IS LOCATED IN ZONE X (MAP 330230, PANEL 115), AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
5. SEE ALSO MCR BK. 654, PG. 450. 8/11/1948. A SMALL PARCEL OF THIS PROPERTY GRANTED TO THE STATE OF NEW HAMPSHIRE FOR ROAD RIGHT OF WAY.
6. A WETLAND DELINEATION AND SITE SPECIFIC SOILS MAP WERE COMPLETED BY BEAVERTRACKS, LLC ON AUGUST 18, 2016. NOT WETLANDS WERE FOUND ON SITE. THE ENTIRE SITE IS 76, MARLOW SOILS.

REFERENCE PLANS

1. MERRIMACK COUNTY REGISTRY OF DEEDS PLAN # 13614, TITLED "PLAN OF SUBDIVISION PROPERTY OF LAKE SUNAPEE BANK GROUP..." BY BEDARD PLATT AND ASSOC. RECORDED MAY 9, 1996.
2. MERRIMACK COUNTY REGISTRY OF DEEDS PLAN # 13901, TITLED "PLAN OF ANNEXATION PROPERTY OF TOMIE DEPOLA..." BY PIERRE J. BEDARD AND ASSOC. RECORDED MARCH 28, 1997.
3. MERRIMACK COUNTY REGISTRY OF DEEDS PLAN # 12055, TITLED "PROPERTY TO BE CONVEYED FROM ROBERT S. MESSER TO..." BY DIBERNARDO ASSOCIATES. RECORDED APRIL 26, 1991.
4. UNRECORDED PLAN "BOUNDARY SURVEY PROPERTY OF LAKE SUNAPEE SAVINGS BANK..." BY BRISTOL, SWEET AND ASSOCIATES, INC., DATED 4/29/1980.
5. STATE OF NEW HAMPSHIRE HIGHWAY DEPARTMENT FEDERAL AID PROJECT #F241 (3) SUNAPEE LAKE ROAD, N. H. DOT PROJECT P-2066.



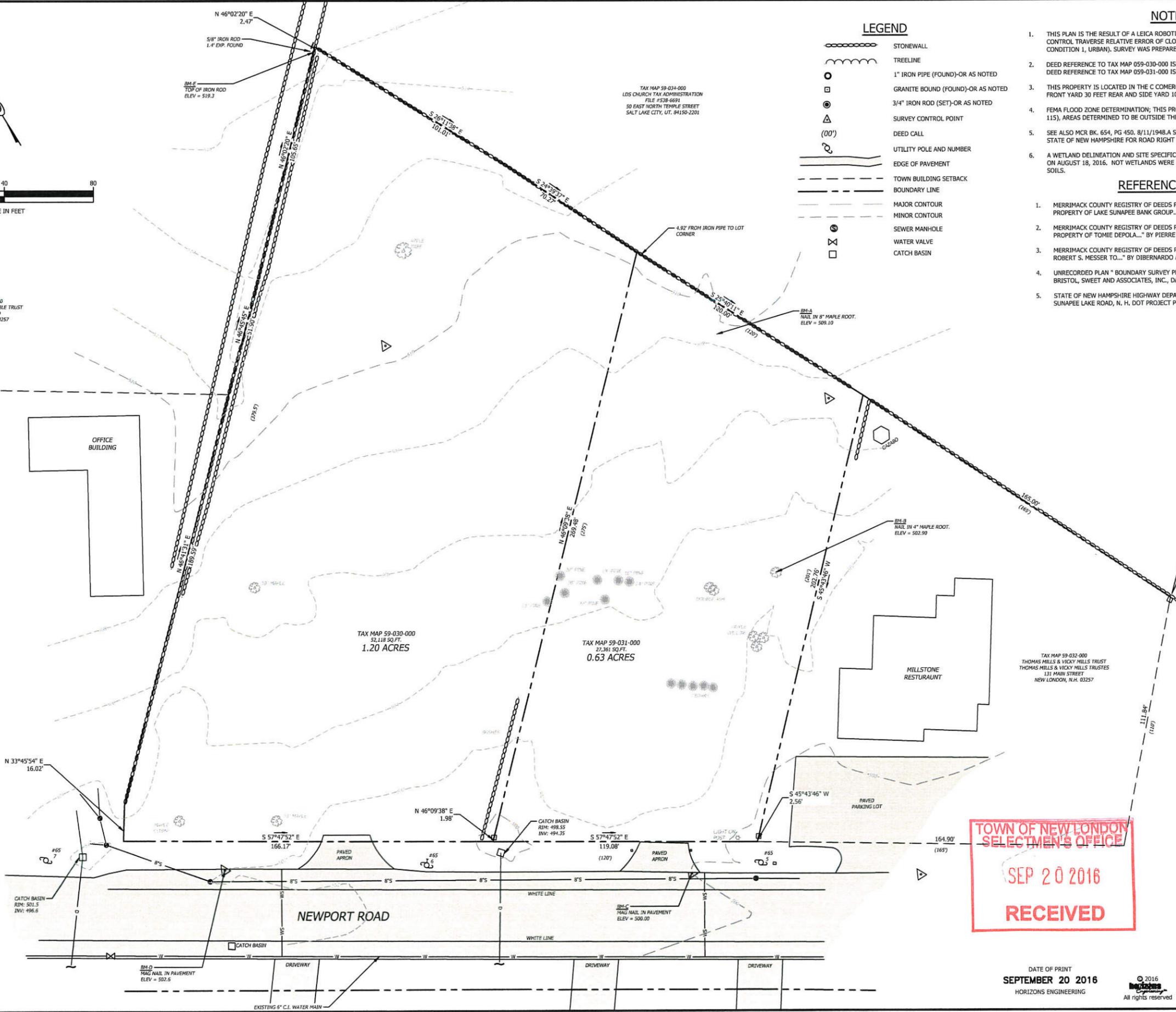
TAX MAP 59-025-000
TOMIE A. DEPOLA REVOCABLE TRUST
143 COUNTY ROAD
NEW LONDON, N.H. 03257

TAX MAP 59-029-000
LAKE SUNAPEE BANK
9 MAIN STREET
NEW LONDON, N.H. 03257

TAX MAP 59-030-000
32,118 SQ.FT.
1.20 ACRES

TAX MAP 59-031-000
27,361 SQ.FT.
0.63 ACRES

TAX MAP 59-032-000
THOMAS MILLS & VICKY MILLS TRUST
THOMAS MILLS & VICKY MILLS TRUSTS
131 MAIN STREET
NEW LONDON, N.H. 03257



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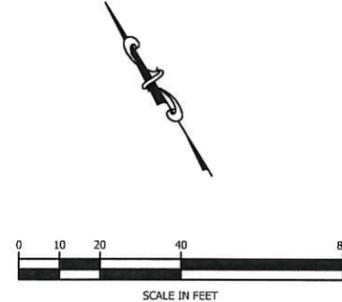
EXISTING CONDITIONS PLAN

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

DATE: SEPT 2016	PROJECT #: 16826
ENGINE'D BY: ---	DRAWN BY: CJH
CHECK'D BY: WTD	ARCHIVE #: H---
SHEET C101	

DATE OF PRINT
SEPTEMBER 20 2016
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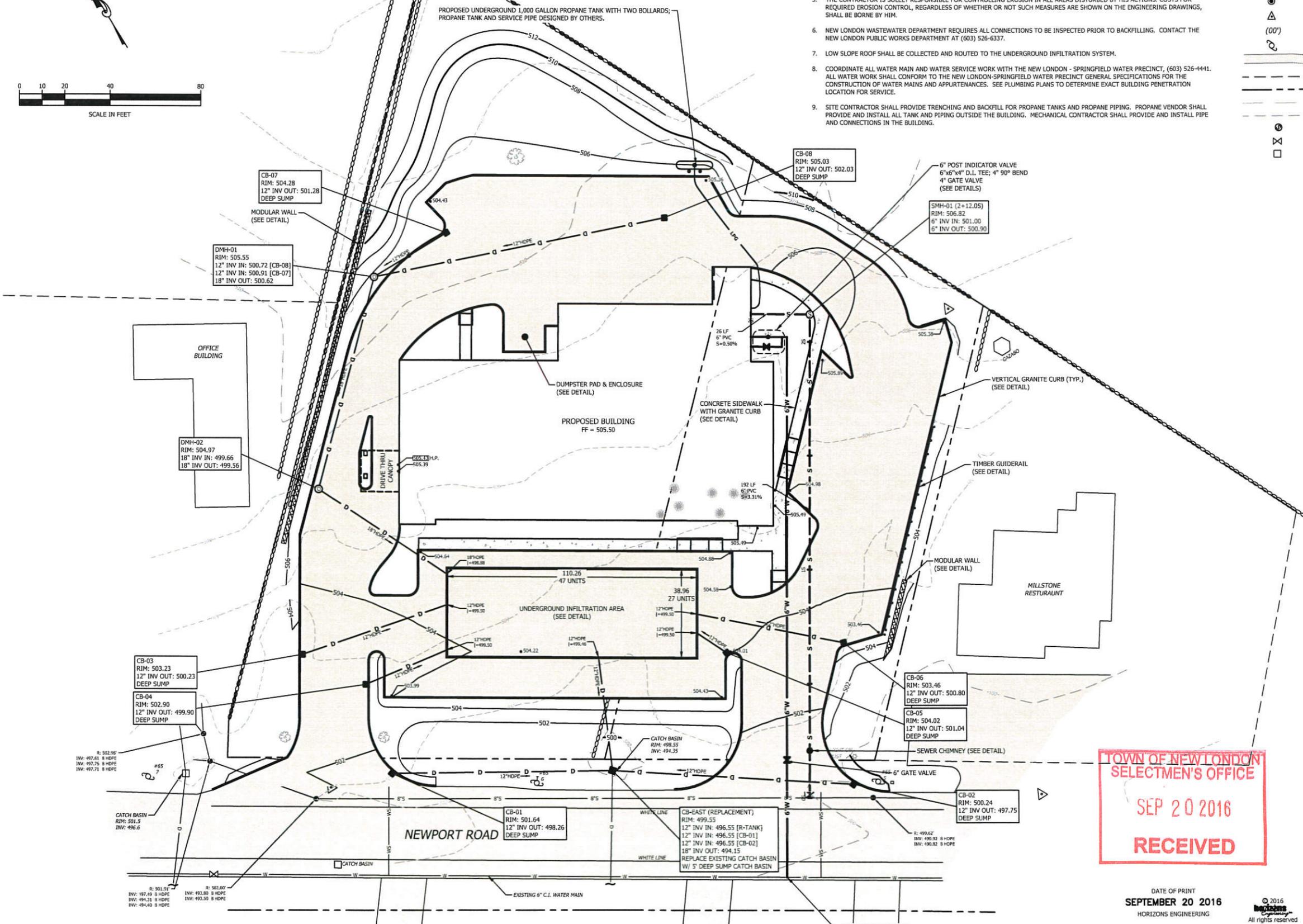


GENERAL NOTES

1. ALL WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS.
2. NO EXISTING MONUMENTS, BOUNDS, OR BENCHMARKS SHALL BE DISTURBED WITHOUT FIRST MAKING PROVISIONS FOR RELOCATION.
3. ALL WORK SHALL BE PERFORMED WITHIN THE PROPERTY OF, AND EASEMENTS SECURED BY, THE OWNER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DATA COLLECTION AND PREPARATION OF RECORD DRAWINGS.
5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTROLLING EROSION IN ALL AREAS DISTURBED BY HIS ACTIONS. COSTS FOR REQUIRED EROSION CONTROL, REGARDLESS OF WHETHER OR NOT SUCH MEASURES ARE SHOWN ON THE ENGINEERING DRAWINGS, SHALL BE BORNE BY HIM.
6. NEW LONDON WASTEWATER DEPARTMENT REQUIRES ALL CONNECTIONS TO BE INSPECTED PRIOR TO BACKFILLING. CONTACT THE NEW LONDON PUBLIC WORKS DEPARTMENT AT (603) 526-6337.
7. LOW SLOPE ROOF SHALL BE COLLECTED AND ROUTED TO THE UNDERGROUND INFILTRATION SYSTEM.
8. COORDINATE ALL WATER MAIN AND WATER SERVICE WORK WITH THE NEW LONDON - SPRINGFIELD WATER PRECINCT, (603) 526-4441. ALL WATER WORK SHALL CONFORM TO THE NEW LONDON-SPRINGFIELD WATER PRECINCT GENERAL SPECIFICATIONS FOR THE CONSTRUCTION OF WATER MAINS AND APPURTENANCES. SEE PLUMBING PLANS TO DETERMINE EXACT BUILDING PENETRATION LOCATION FOR SERVICE.
9. SITE CONTRACTOR SHALL PROVIDE TRENCHING AND BACKFILL FOR PROPANE TANKS AND PROPANE PIPING. PROPANE VENDOR SHALL PROVIDE AND INSTALL ALL TANK AND PIPING OUTSIDE THE BUILDING. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL PIPE AND CONNECTIONS IN THE BUILDING.

LEGEND

- STONEWALL
- TREELINE
- 1" IRON PIPE (FOUND)-OR AS NOTED
- GRANITE BOUND (FOUND)-OR AS NOTED
- 3/4" IRON ROD (SET)-OR AS NOTED
- SURVEY CONTROL POINT
- DEED CALL
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NEW LONDON, NEW HAMPSHIRE

GRADING, DRAINAGE,
& UTILITY PLAN

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

DATE: SEPT 2016 PROJECT #: 16826

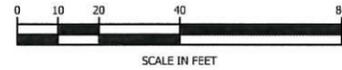
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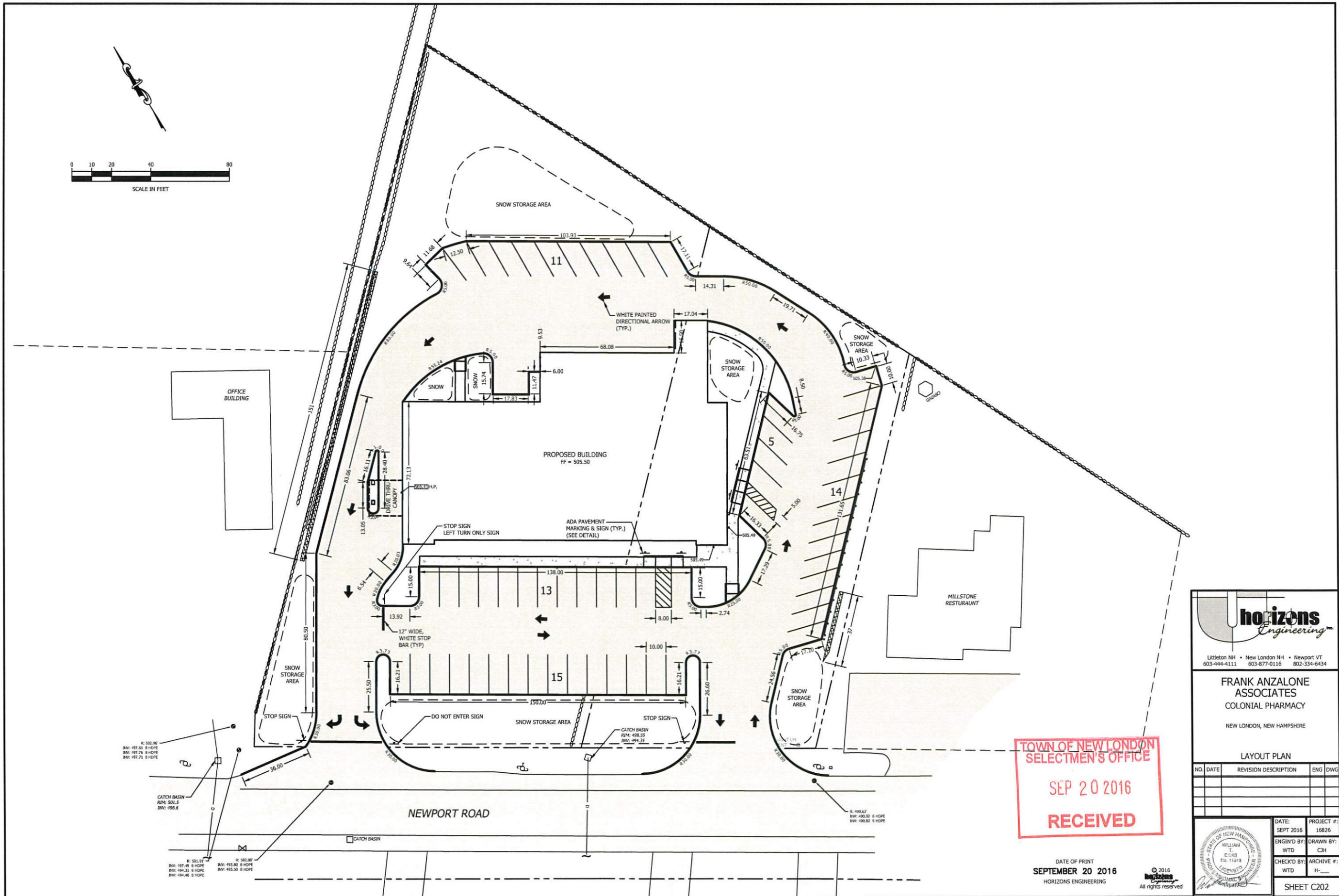
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SHEET C201

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SCALE IN FEET



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LAYOUT PLAN

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

DATE: SEPT 2016	PROJECT #: 16826
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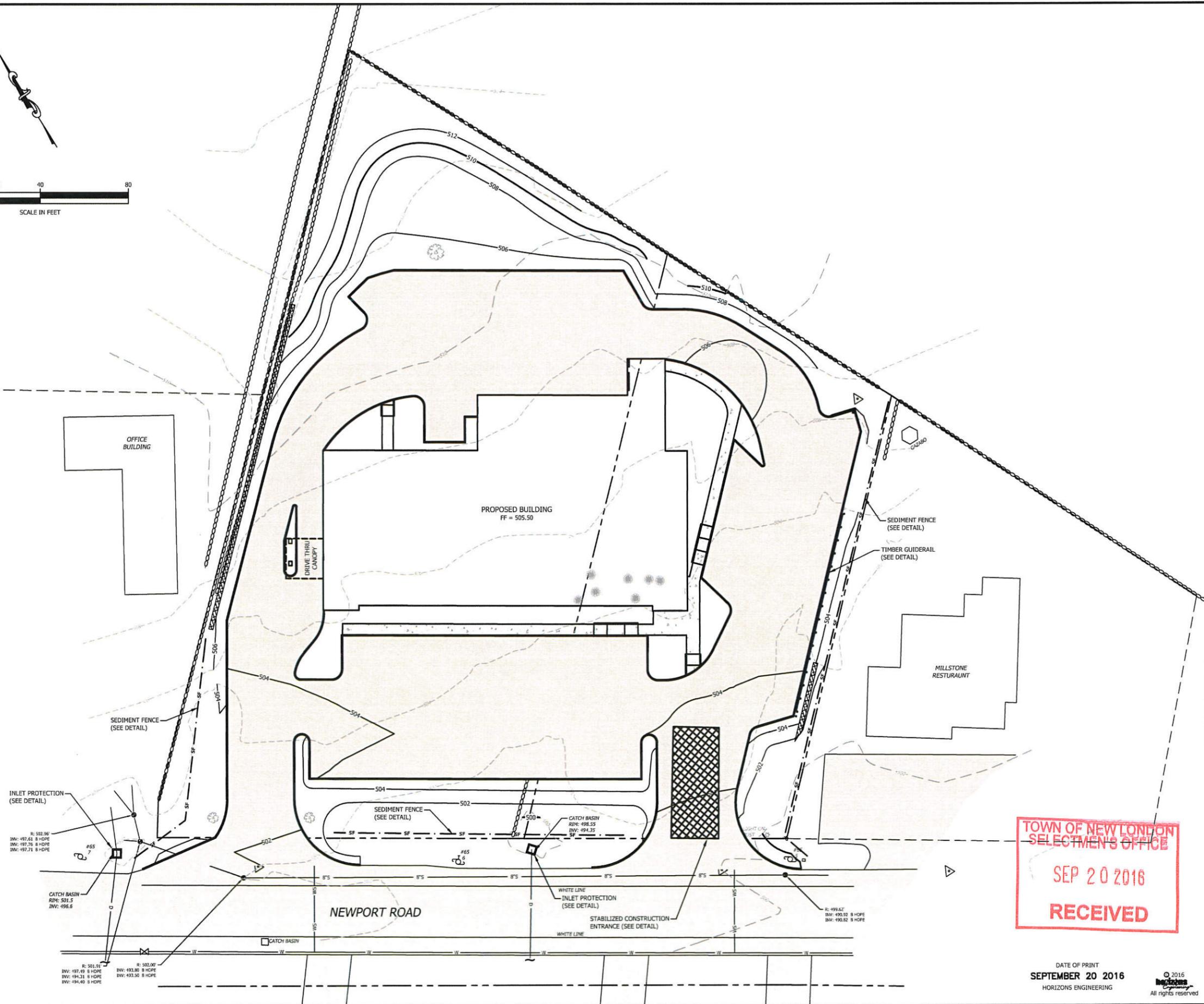
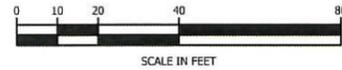
R: 502.96
 INV: 497.61 8 HOPE
 INV: 497.26 8 HOPE
 INV: 497.71 8 HOPE

 CATCH BASIN
 RIM: 501.5
 INV: 496.6

 R: 501.81
 INV: 497.49 8 HOPE
 INV: 494.21 8 HOPE
 INV: 494.40 8 HOPE

 R: 502.00
 INV: 493.80 8 HOPE
 INV: 493.50 8 HOPE

R: 499.67
 INV: 490.92 8 HOPE
 INV: 490.82 8 HOPE



OFFICE BUILDING

PROPOSED BUILDING
FF = 505.50

042380

SEDIMENT FENCE
(SEE DETAIL)

TIMBER GUIDERAIL
(SEE DETAIL)

MILLSTONE RESTAURANT

SEDIMENT FENCE
(SEE DETAIL)

INLET PROTECTION
(SEE DETAIL)

R: 503.00'
INV: 497.61 8 HOPE
INV: 497.76 8 HOPE
INV: 497.71 8 HOPE

CATCH BASIN
RIM: 501.5
INV: 496.6

NEWPORT ROAD

SEDIMENT FENCE
(SEE DETAIL)

CATCH BASIN
RIM: 496.55
INV: 494.35

WHITE LINE
INLET PROTECTION
(SEE DETAIL)

STABILIZED CONSTRUCTION
ENTRANCE (SEE DETAIL)

R: 499.62'
INV: 490.92 8 HOPE
INV: 490.82 8 HOPE

R: 501.51'
INV: 497.49 8 HOPE
INV: 494.31 8 HOPE
INV: 494.40 8 HOPE

R: 502.00'
INV: 493.80 8 HOPE
INV: 493.50 8 HOPE

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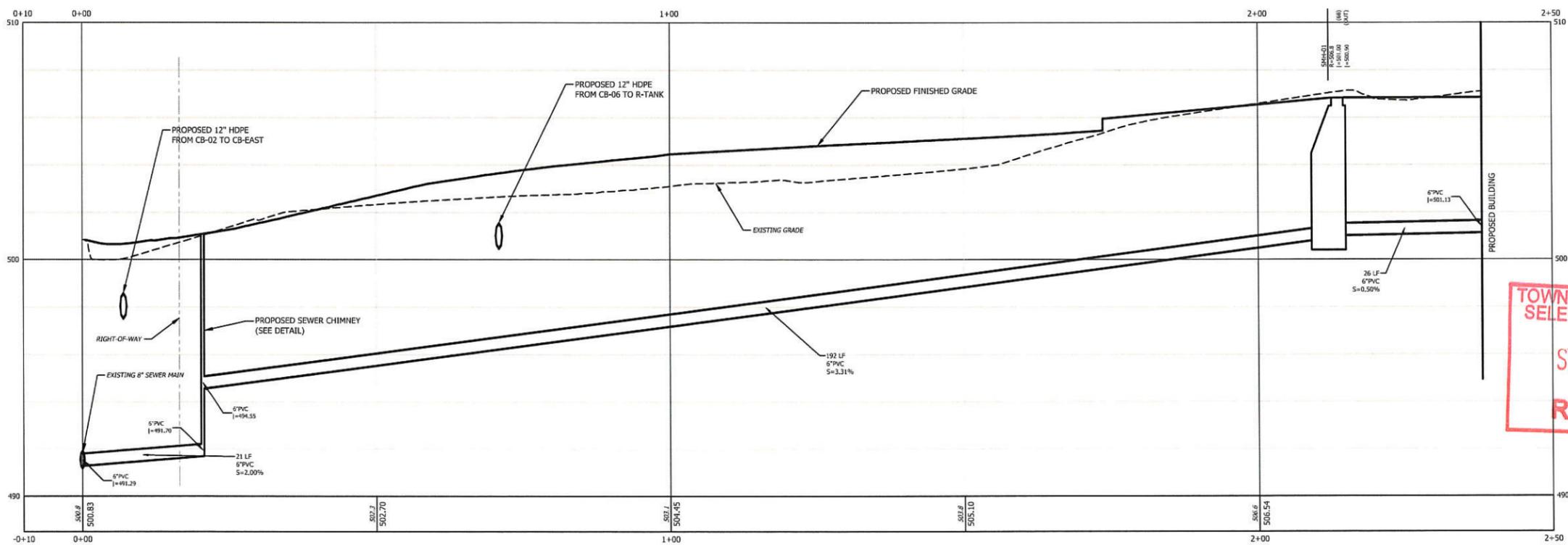
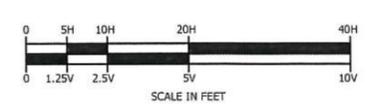
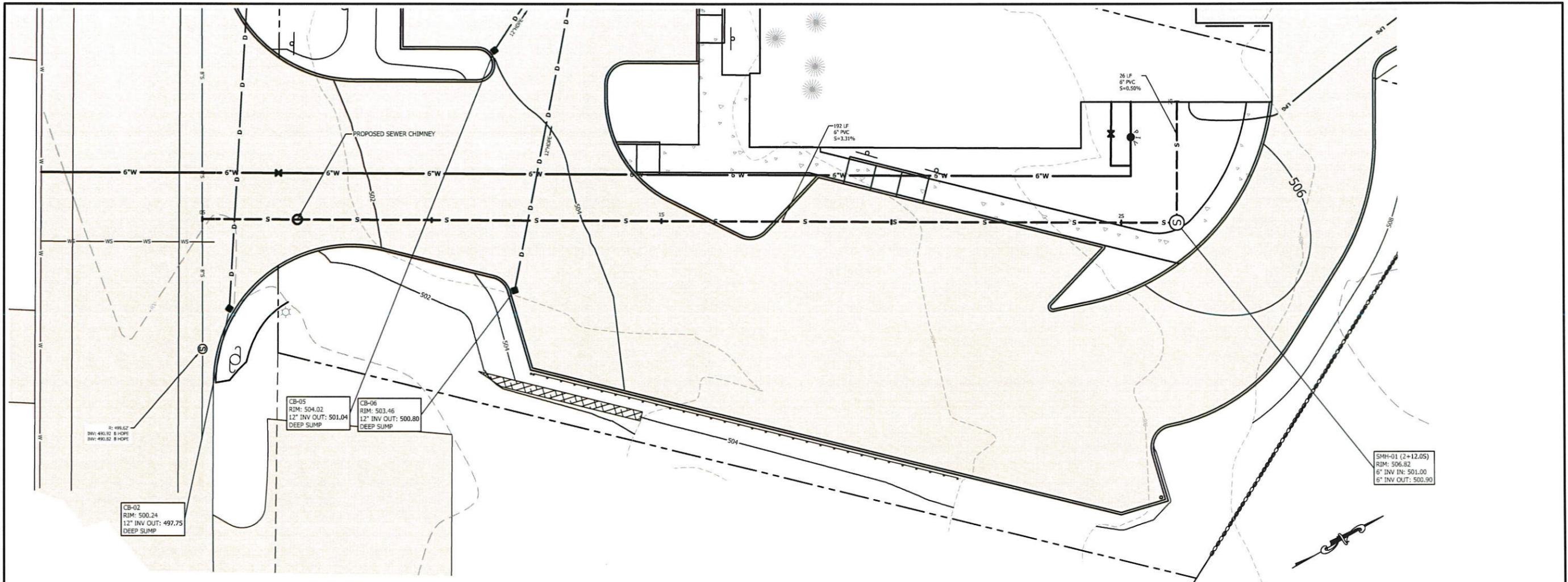
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SEDIMENT & EROSION CONTROL PLAN

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SEWER PLAN AND PROFILE

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SEEDING RECOMMENDATIONS

1. THESE NOTES ARE INTENDED TO BE A GUIDELINE FOR EROSION CONTROL PURPOSES. PLEASE SEE LANDSCAPING PLANS FOR PREFERRED SEED MIXES.

2. GRADING AND SHAPING

A. SLOPES SHALL NOT BE STEEPER THAN 2:1; 3:1 SLOPES OR FLATTER ARE PREFERRED. WHERE MOWING WILL BE DONE, 3:1 SLOPES OR FLATTER ARE RECOMMENDED.

3. SEEDBED PREPARATION

A. SURFACE AND SEEPAGE WATER SHOULD BE DRAINED OR DIVERTED FROM THE SITE TO PREVENT DROWNING OR WINTER KILLING OF THE PLANTS.

B. STONES LARGER THAN 4 INCHES AND TRASH SHOULD BE REMOVED BECAUSE THEY INTERFERE WITH SEEDING AND FUTURE MAINTENANCE OF THE AREA. WHERE FEASIBLE, THE SOIL SHOULD BE TILLED TO A DEPTH OF ABOUT 4 INCHES TO PREPARE A SEEDBED AND MIX FERTILIZER AND LIME THOROUGHLY INTO THE SOIL. THE SEEDBED SHOULD BE LEFT IN A REASONABLY FIRM AND SMOOTH CONDITION. THE LAST TILLAGE OPERATION SHOULD BE PERFORMED ACROSS THE SLOPE WHEREVER PRACTICAL.

4. ESTABLISHING VEGETATION

A. LIME AND FERTILIZER SHOULD BE APPLIED PRIOR TO OR AT THE TIME OF SEEDING AND INCORPORATED INTO THE SOIL. KINDS AND AMOUNTS OF LIME AND FERTILIZER SHOULD BE BASED ON AN EVALUATION OF SOIL TESTS. WHEN A SOIL TEST IS NOT AVAILABLE, THE FOLLOWING MINIMUM AMOUNTS SHOULD BE APPLIED:

- AGRICULTURAL LIMESTONE, 2 TONS PER ACRE OR 100 LBS. PER 1,000 SQ. FT.
- NITROGEN (N), 50 LBS. PER ACRE OR 1.1 LBS. PER 1,000 SQ. FT.
- PHOSPHATE (P O), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ. FT.
- POTASH (K O), 100 LBS. PER ACRE OR 2.2 LBS. PER 1,000 SQ. FT.

(NOTE: THIS IS THE EQUIVALENT OF 500 LBS. PER ACRE OF 10-20-20 FERTILIZER OR 1,000 LBS. PER ACRE OF 5-10-10).

B. SEED SHOULD BE SPREAD UNIFORMLY BY THE METHOD MOST APPROPRIATE FOR THE SITE. METHODS INCLUDE BROADCASTING, DRILLING, AND HYDROSEEDING. WHERE BROADCASTING IS USED, COVER SEED WITH .25 INCH OF SOIL OR LESS, BY CULTIPACKING OR RAKING.

C. SEEDING GUIDE:

USE	SEEDING MIXTURE (SEE 3D)	SOIL TYPE			
		DROUGHTY	WELL DRAINED	MOD. WELL DRAINED	POORLY DRAINED
STEEP CUTS AND FILLS, BORROW AND DISPOSAL AREAS	A	FAIR	GOOD	GOOD	FAIR
	B	POOR	GOOD	FAIR	FAIR
	C	FAIR	EXCELLENT	EXCELLENT	POOR
WATERWAYS, EMERGENCY SPILLWAYS, AND OTHER CHANNELS WITH FLOWING WATER	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	GOOD	FAIR
LIGHTLY USED PARKING LOTS, ODD AREAS, UNUSED LANDS, AND LOW INTENSITY USE RECREATION SITES	A	GOOD	GOOD	GOOD	FAIR
	B	GOOD	GOOD	FAIR	POOR

D. SEEDING RATES:

MIXTURE	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.
A TALL FESCUE	20	0.45
CREeping RED FESCUE	20	0.45
REDTOP	2	0.05
TOTAL:	42	0.95
B TALL FESCUE	15	0.35
CREeping RED FESCUE	10	0.25
CROWN VETCH OR FLATPEA	15 OR 30	0.35 OR 0.75
TOTAL:	40 OR 55	0.95 OR 1.35
C TALL FESCUE	20	0.45
FLATPEA	30	0.75
TOTAL:	50	1.20

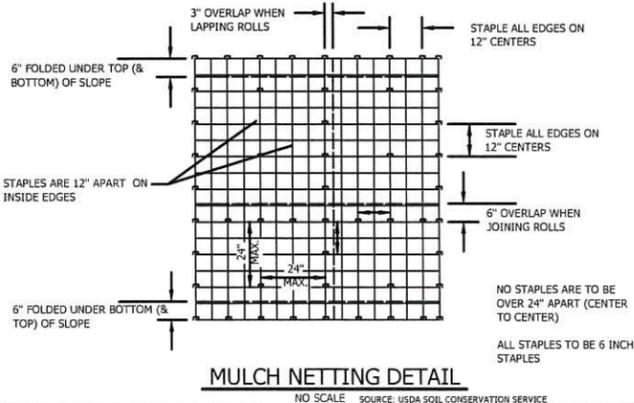
E. WHEN SEEDING AREAS ARE MULCHED, PLANTINGS MAY BE MADE FROM EARLY SPRING TO SEPTEMBER 15. WHEN SEEDING AREAS ARE NOT MULCHED, PLANTINGS SHOULD BE MADE FROM EARLY SPRING TO MAY 20 OR FROM AUGUST 10 TO SEPTEMBER 1.

F. TEMPORARY SEEDING RATES:

SPECIES	POUNDS PER ACRE	POUNDS PER 1,000 SQ. FT.	REMARKS
WINTER RYE	112	2.5	BEST FOR FALL SEEDING. SEED FROM AUGUST TO SEPTEMBER 5TH FOR BEST COVER. SEED TO A DEPTH OF 1 INCH.
OATS	80	2.0	BEST FOR SPRING SEEDING. SEED NO LATER THAN MAY 15TH FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1 INCH.
ANNUAL RYEGRASS	40	1.0	GROWS QUICKLY, BUT IS OF SHORT DURATION. USE WHERE APPEARANCES ARE IMPORTANT. SEED EARLY SPRING AND/OR BETWEEN AUGUST 15TH AND SEPTEMBER 15TH. COVER SEED WITH NO MORE THAN 0.25 INCH OF SOIL.
PERENNIAL RYEGRASS	30	0.7	GOOD COVER WHICH IS LONGER LASTING THAN ANNUAL RYEGRASS. SEED BETWEEN APRIL 1ST AND JUNE 1ST AND/OR BETWEEN AUGUST 15TH AND SEPTEMBER 15TH. MULCHING WILL ALLOW SEEDING THROUGHOUT THE GROWING SEASON. SEED TO A DEPTH OF APPROXIMATELY 0.5 INCH.

4. MULCH

- A. HAY, STRAW, OR OTHER MULCH, WHEN NEEDED, SHOULD BE APPLIED IMMEDIATELY AFTER SEEDING.
- B. MULCH WILL BE HELD IN PLACE USING APPROPRIATE TECHNIQUES FROM THE BEST MANAGEMENT PRACTICE FOR MULCHING.
- 5. MAINTENANCE TO ESTABLISH A STAND
 - A. PLANTED AREAS SHOULD BE PROTECTED FROM DAMAGE BY FIRE, GRAZING, TRAFFIC, AND DENSE WEED GROWTH.
 - B. FERTILIZATION NEEDS SHOULD BE DETERMINED BY ON SITE INSPECTIONS. SUPPLEMENTAL FERTILIZER IS USUALLY THE KEY TO FULLY COMPLETE THE ESTABLISHMENT OF THE STAND BECAUSE MOST PERENNIALS TAKE 2 TO 3 YEARS TO BECOME ESTABLISHED.
 - C. IN WATERWAYS, CHANNELS, OR SWALES WHERE UNIFORM FLOW CONDITIONS ARE ANTICIPATED, OCCASIONAL MOWING MAY BE NECESSARY TO CONTROL GROWTH OF WOODY VEGETATION.



EROSION CONTROL GENERAL NOTES

A. KEEP SITE MODIFICATION TO A MINIMUM

1. CONSIDER FITTING THE BUILDINGS AND STREETS TO THE NATURAL TOPOGRAPHY. THIS REDUCES THE NEED FOR CUTS AND FILLS. AVOID EXTENSIVE GRADING THAT WOULD ALTER DRAINAGE PATTERNS OR CREATE VERY STEEP SLOPES.
2. EXPOSE AREAS OF BARE SOIL TO EROSION ELEMENTS FOR THE SHORTEST TIME POSSIBLE.
3. SAVE AND PROTECT DESIRABLE EXISTING VEGETATION WHERE POSSIBLE. ERECT BARRIERS TO PREVENT DAMAGE FROM CONSTRUCTION EQUIPMENT.
4. LIMIT THE GRADES OF SLOPES SO VEGETATION CAN BE EASILY ESTABLISHED AND MAINTAINED.
5. AVOID SUBSTANTIAL INCREASE IN RUNOFF LEAVING THE SITE.

B. MINIMIZE POLLUTION OF WATER DURING CONSTRUCTION ACTIVITIES

1. STOCKPILE TOPSOIL REMOVED FROM CONSTRUCTION AREA AND SPREAD OVER ANY DISTURBED AREAS PRIOR TO REVEGETATION. TOPSOIL STOCKPILES MUST BE PROTECTED FROM EROSION.
2. PROTECT BARE SOIL AREAS EXPOSED BY GRADING ACTIVITIES WITH TEMPORARY VEGETATION OR MULCHES.
3. USE SEDIMENT BASINS TO TRAP DEBRIS AND SEDIMENT WHICH WILL PREVENT THESE MATERIALS FROM MOVING OFF SITE.
4. USE DIVERSIONS TO DIRECT WATER AROUND THE CONSTRUCTION AREA AND AWAY FROM EROSION PRONE AREAS TO POINTS OF SAFE DISPOSAL.
5. USE TEMPORARY CULVERTS OR BRIDGES WHEN CROSSING STREAMS WITH EQUIPMENT.
6. PLACE CONSTRUCTION FACILITIES, MATERIALS, AND EQUIPMENT STORAGE AND MAINTENANCE AREAS AWAY FROM DRAINAGE WAYS.

C. PROTECT AREA AFTER CONSTRUCTION.

1. ESTABLISH GRASS OR OTHER SUITABLE VEGETATION ON ALL DISTURBED AREAS. SELECT SPECIES ADAPTED TO THE SITE CONDITIONS AND THE FUTURE USE OF THE AREA. FINAL GRADES SHALL BE SEED WITHIN 72 HOURS. STABILIZATION SHALL BE DEFINED AS 85% VEGETATIVE COVER.
2. MAINTAIN VEGETATED AREAS USING PROPER VEGETATIVE 'BEST MANAGEMENT PRACTICES' DURING THE CONSTRUCTION PERIOD.
3. MAINTAIN NEEDED STRUCTURAL 'BEST MANAGEMENT PRACTICES' AND REMOVE SEDIMENT FROM DETENTION PONDS AND SEDIMENT BASINS AS NEEDED.
4. DETERMINE RESPONSIBILITY FOR LONG TERM MAINTENANCE OF PERMANENT 'BEST MANAGEMENT PRACTICES'.
5. IF CONSTRUCTION IS ANTICIPATED DURING WINTER MONTHS, GRADED AREAS ARE TO BE STABILIZED WITH NORTH AMERICAN GREEN DS150 MATTING OR EQUAL.

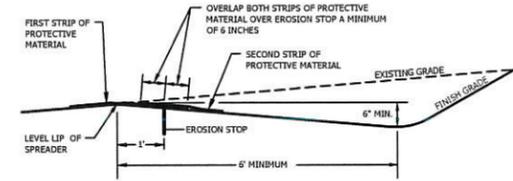
COLD WEATHER SITE STABILIZATION REQUIREMENTS

TO ADEQUATELY PROTECT WATER QUALITY DURING COLD WEATHER AND DURING SPRING RUNOFF, THE FOLLOWING ADDITIONAL STABILIZATION TECHNIQUES SHALL BE EMPLOYED DURING THE PERIOD FROM OCTOBER 15 THROUGH MAY 1:

1. THE AREA OF EXPOSED, UNSTABILIZED SOIL SHALL BE LIMITED TO ONE ACRE AND SHALL BE PROTECTED AGAINST EROSION BY THE METHODS DESCRIBED IN THIS SECTION PRIOR TO ANY THAW OR SPRING MELT EVENT. THE ALLOWABLE AREA OF EXPOSED SOIL MAY BE INCREASED IF A WINTER CONSTRUCTION PLAN, DEVELOPED BY A QUALIFIED ENGINEER OR A CPESC SPECIALIST, IS REVIEWED AND APPROVED BY NHDES.
2. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEED AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR TACKIFIER, OR 2 INCHES OF EROSION CONTROL MIX MEETING THE CRITERIA OF ENV-WQ 1506.05(D) THROUGH (H).
3. ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15% WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE SEED AND COVERED WITH A PROPERLY INSTALLED AND ANCHORED EROSION CONTROL BLANKET OR WITH A MINIMUM 4 INCH THICKNESS OF EROSION CONTROL MIX MEETING THE CRITERIA OF ENV-WQ 1506.05(D) THROUGH (H).
4. INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX, MEETING THE CRITERIA OF ENV-WQ 1506.05(D) THROUGH (H), SHALL NOT OCCUR OVER SNOW OF GREATER THAN ONE INCH IN DEPTH.
5. INSTALLATION OF EROSION CONTROL BLANKETS SHALL NOT OCCUR OVER SNOW OF GREATER THAN ONE INCH IN DEPTH OR ON FROZEN GROUND.
6. ALL PROPOSED STABILIZATION IN ACCORDANCE WITH NOTES 2 OR 3 ABOVE, SHALL BE COMPLETED WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS.
7. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS, AS DETERMINED BY THE OWNER'S ENGINEERING CONSULTANT.
8. AFTER NOVEMBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHALL BE PROTECTED WITH A MINIMUM 3 INCH LAYER OF BASE COURSE GRAVELS MEETING THE GRADATION REQUIREMENTS OF NHDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, 2005, ITEM NO. 304.1 OR 304.2.

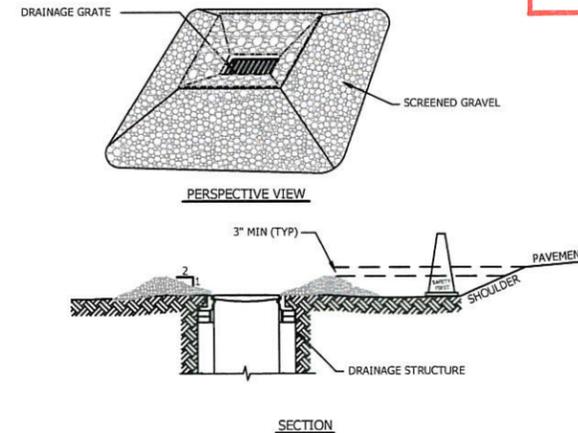
LEVEL LIP SPREADER INSTALLATION

1. CONSTRUCT THE LEVEL SPREADER LIP ON A ZERO PERCENT GRADE TO INSURE UNIFORM SPREADING OF RUNOFF.
2. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL AND NOT ON FILL.
3. AN EROSION STOP SHALL BE PLACED VERTICALLY A MINIMUM OF SIX INCHES DEEP IN A SLIT TRENCH ONE FOOT BACK OF THE LEVEL LIP AND PARALLEL TO THE LIP. THE EROSION STOP SHALL EXTEND THE ENTIRE LENGTH OF THE LEVEL LIP.
4. THE ENTIRE LEVEL LIP AREA SHALL BE PROTECTED BY PLACING TWO STRIPS OF JUTE OR EXCELSIOR MATTING ALONG THE LIP. EACH STRIP SHALL OVERLAP THE EROSION STOP BY AT LEAST SIX INCHES.
5. THE ENTRANCE CHANNEL TO THE LEVEL SPREADER SHALL NOT EXCEED A 1 PERCENT GRADE FOR AT LEAST 50 FEET BEFORE ENTERING INTO THE SPREADER.
6. THE FLOW FROM THE LEVEL SPREADER SHALL OUTLET ONTO STABILIZED AREAS. WATER SHOULD NOT RE-CONCENTRATE IMMEDIATELY BELOW THE SPREADER.
7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PERFORMED.
8. PROTECTIVE MATERIAL AND EROSION STOP SHALL BE NORTH AMERICAN GREEN C125 EROSION CONTROL BLANKET OR APPROVED EQUAL.



LEVEL SPREADER DETAIL

NO SCALE
SOURCE: ROCKINGHAM COUNTY CONSERVATION SERVICE



MATERIALS SPECIFICATIONS:

1. SCREENED GRAVEL: UNIFORMLY GRADED 1" TO 4" DIA. STONE.

CONSTRUCTION SPECIFICATIONS:

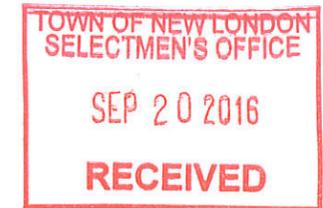
1. INSTALL GRAVEL INLET PROTECTION WHERE INDICATED OR WARRANTED.
2. FOR ALL INSTALLATIONS WHERE INLET PROTECTION IS WITHIN 8' OF EDGE OF PAVEMENT, A ROADWAY CONE SHALL BE USED BETWEEN CATCH BASIN AND SHOULDER.
3. ENSURE CREST OF GRAVEL PLACED AROUND CATCH BASIN IS AT LEAST 3" BELOW ELEVATION OF EDGE OF PAVEMENT.

CATCH BASIN INLET PROTECTION DETAIL

NO SCALE

DATE OF PRINT
SEPTEMBER 20 2016
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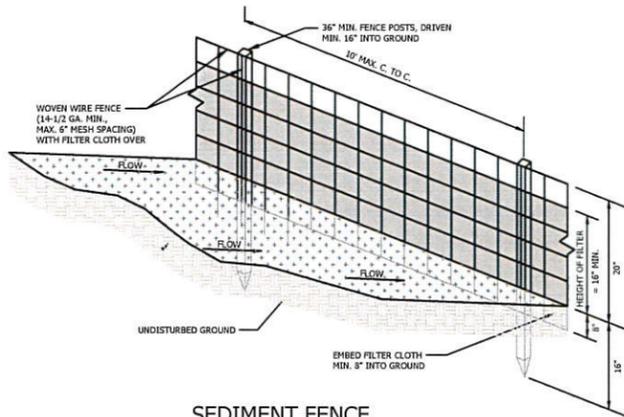
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SEDIMENT AND EROSION CONTROL NOTES AND DETAILS

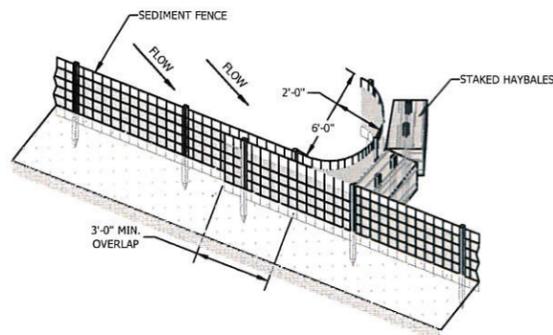
NO.	DATE	REVISION DESCRIPTION	ENG	DWG

	DATE: SEPT 2016 PROJECT #: 16826 ENGIN'D BY: WTD DRAWN BY: CHH CHECK'D BY: - ARCHIVE #: H-
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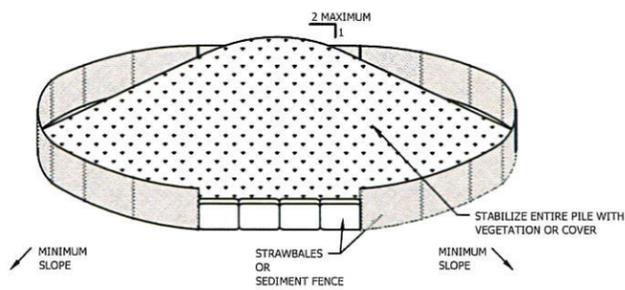
SHEET C301



SEDIMENT FENCE
NO SCALE



SEDIMENT FENCE POCKET
NO SCALE



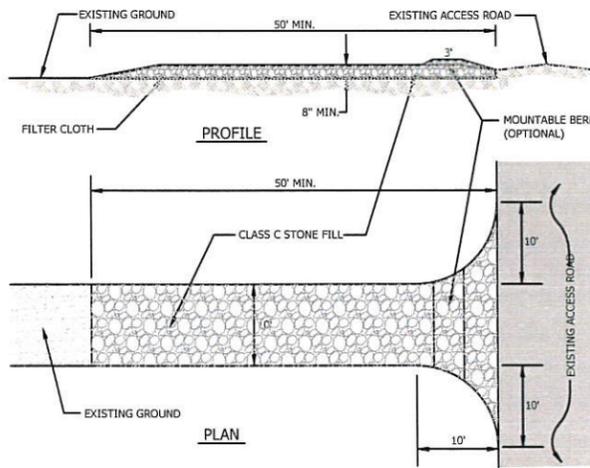
SOIL STOCKPILING IS TO BE USED WHERE TOPSOIL IS NECESSARY FOR REGRADING AND VEGETATING DISTURBED AREAS.

TEMPORARY STOCKPILE STABILIZATION MEASURES INCLUDE VEGETATIVE COVERS, MULCH, NON-VEGETATIVE COVERS, AND PERIPHERAL SEDIMENT TRAPPING BARRIERS. THE STABILIZATION MEASURE(S) SELECTED SHOULD BE APPROPRIATE FOR THE TIME OF YEAR, SITE CONDITIONS, AND REQUIRED PERIOD OF USE.

INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2:1.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES AND THEN STABILIZED WITH VEGETATION OR COVERED.

SOIL STOCKPILING DETAIL
NOT TO SCALE



STABILIZED CONSTRUCTION ENTRANCE
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SEDIMENT AND EROSION CONTROL
NOTES AND DETAILS

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 SHEET C302

SEWER NOTES

- GENERAL**
CONSTRUCTION OF ALL COMPONENTS OF THE SANITARY SEWER SYSTEM SHALL CONFORM TO THE MOST CURRENT VERSION OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES ENV-WQ 700.
- TYPES OF SEWERS**
A. THERE SHALL BE NO CONNECTION BETWEEN SANITARY SEWERS AND STORM SEWERS.
B. RUNOFF FROM ROOFS, STREETS, AND OTHER AREAS AND GROUNDWATER FROM FOUNDATION DRAINS, SUMP PUMPS, OR OTHER SUBSURFACE DRAINS SHALL BE EXCLUDED FROM SANITARY SEWERS.
- SEWER SIZE AND COVER**
A. MINIMUM PIPE SIZE FOR GRAVITY SEWER MAINS SHALL BE 8 INCHES.
B. MINIMUM PIPE SIZE FOR GRAVITY SEWER SERVICES SHALL BE 4 INCHES.
C. MINIMUM PIPE SIZE FOR FORCE MAIN SEWER SERVICES SHALL BE 2 INCHES.
D. SANITARY SEWERS SHALL HAVE 6 FEET MINIMUM COVER IN ALL ROADWAY LOCATIONS AND 4 FEET MINIMUM COVER IN ALL CROSS-COUNTRY LOCATIONS.
- PIPE AND FITTING MATERIALS:**
A. **DUCTILE IRON PIPE**
DUCTILE IRON PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING STANDARDS OF THE AMERICAN WATER WORKS ASSOCIATION:
(1) AWWA C151 FOR DUCTILE IRON PIPE, CENTRIFUGALLY CAST IN METAL OR SAND LINED MOLDS, FOR WATER OR OTHER LIQUIDS;
(2) AWWA C150 FOR THICKNESS DESIGN OF DUCTILE IRON PIPE AND WITH ASTM A 536 IRON CASTINGS; AND
(3) JOINTS SHALL BE MECHANICAL TYPE, PUSH-ON TYPE, OR BALL-AND-SOCKET TYPE;
B. **PVC (POLY VINYL CHLORIDE) PIPE**
PVC PIPE AND FITTINGS SHALL BE APPROVED FOR SEWAGE SERVICE AND CONFORM TO THE FOLLOWING:
(1) PVC PIPE USED FOR GRAVITY SEWERS SHALL BE TYPE SDR 35 CONFORMING TO ASTM D3034;
(2) PVC PIPE USED FOR FORCE MAINS SHALL BE TYPE SDR 26 CONFORMING TO ASTM D2241 OR ASTM D1785;
(3) JOINTS SHALL BE PUSH-ON, BELL-AND-SPIGOT TYPE HAVING OIL RESISTANT COMPRESSION RINGS OF ELASTOMERIC MATERIAL CONFORMING TO ASTM D3212.
- BEDDING**
PIPE BEDDING SHALL BE SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM ORGANIC MATTER, CLAY, AND/OR LOAM MEETING ASTM C33 STONE SIZE NO. 57. BEDDING SHALL EXTEND FROM THE SPRING LINE OF THE PIPE TO A MINIMUM DEPTH OF 6" BELOW THE BOTTOM OF THE PIPE OUTSIDE SURFACE.

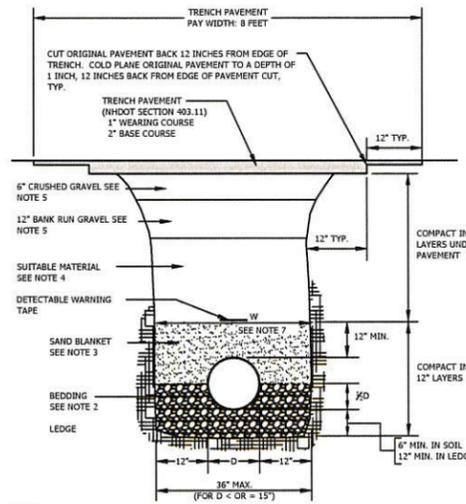
100% PASSING	1/2 INCH SCREEN
90-100% PASSING	3/4 INCH SCREEN
20-55% PASSING	3/8 INCH SCREEN
0-10% PASSING	#4 SIEVE
0-5% PASSING	#8 SIEVE
- MANHOLES**
A. PRECAST CONCRETE BARREL SECTIONS, CONES, AND BASES SHALL CONFORM TO ASTM C478.
B. MANHOLES SHALL BE DESIGNED FOR H-20 LOADING.
C. HORIZONTAL JOINTS BETWEEN BARREL SECTIONS SHALL BE OF AN OVERLAPPING TYPE WHICH SHALL DEPEND UPON A DOUBLE ROW OF ELASTOMERIC OR MASTIC-LIKE SEALANT FOR WATER TIGHTNESS.
D. PIPE TO MANHOLE JOINTS SHALL BE AS FOLLOWS:
(1) ELASTOMERIC, RUBBER SLEEVE WITH WATERTIGHT JOINTS AT THE MANHOLE OPENING AND PIPE SURFACES;
(2) CAST INTO THE WALL OR SECURED WITH STAINLESS STEEL CLAMPS;
(3) ELASTOMERIC SEALING RING CAST IN THE MANHOLE OPENING WITH SEAL FORMED ON THE SURFACE OF THE PIPE BY COMPRESSION OF THE RING; AND
(4) NON-SHRINK GROUTED JOINTS WHERE WATERTIGHT BONDING TO THE MANHOLE AND PIPE CAN BE OBTAINED.
E. MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. AT CHANGES IN DIRECTION, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE SEWER PIPES. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPED TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY. INVERTS AND SHELVES SHALL BE PLACED AFTER TESTING.
- PROTECTION OF WATER SUPPLIES**
A. THERE SHALL BE NO PHYSICAL CONNECTION BETWEEN A PUBLIC OR PRIVATE WATER SUPPLY SYSTEM AND A SEWER OR SEWER APPURTENANCE WHICH WOULD PERMIT THE PASSAGE OF SEWAGE OR POLLUTED WATER INTO THE POTABLE SUPPLY. NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER OR SEWER MANHOLE.
B. NO SEWER SHALL BE LOCATED WITHIN THE WELL PROTECTIVE RADII ESTABLISHED IN ENV-W5 300 FOR ANY PUBLIC WATER SUPPLY WELLS OR WITHIN 100 FEET OF ANY PRIVATE WATER SUPPLY WELL.
C. SEWERS SHALL BE LOCATED AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN.
D. A DEVIATION FROM THE SEPARATION REQUIREMENTS OF (B) OR (C) ABOVE SHALL BE ALLOWED WHERE NECESSARY TO AVOID CONFLICT WITH SUBSURFACE STRUCTURES, UTILITY CHAMBERS, AND BUILDING FOUNDATIONS, PROVIDED THAT THE SEWER IS CONSTRUCTED IN ACCORDANCE WITH THE FORCE MAIN CONSTRUCTION REQUIREMENTS SPECIFIED IN ENV-WQ 704.06.
E. WHENEVER SEWERS MUST CROSS WATER MAINS, THE SEWER SHALL BE CONSTRUCTED AS FOLLOWS:
(1) VERTICAL SEPARATION OF THE SEWER AND WATER MAIN SHALL BE NOT LESS THAN 18 INCHES, WITH WATER ABOVE SEWER; AND
(2) SEWER PIPE JOINTS SHALL BE LOCATED AT LEAST 6 FEET HORIZONTALLY FROM THE WATER MAIN.

STANDARD TRENCH NOTES - WATER & SEWER

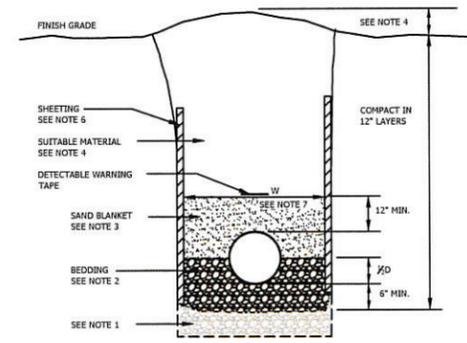
- ORDERED EXCAVATION OF UNSUITABLE MATERIAL** BELOW GRADE SHALL BE REPLACED WITH BEDDING MATERIAL. SEE ALSO NOTE 4.
- BEDDING:** SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM ORGANIC MATTER, CLAY, AND/OR LOAM MEETING ASTM C33 STONE SIZE NO. 67.

100% PASSING	1/2 INCH SCREEN
90-100% PASSING	3/4 INCH SCREEN
20-55% PASSING	3/8 INCH SCREEN
0-10% PASSING	#4 SIEVE
0-5% PASSING	#8 SIEVE
- SAND BLANKET:** CLEAN SAND FREE FROM ORGANIC MATTER, SO GRADED THAT 100% PASSES A 1/2 INCH SIEVE AND NOT MORE THAN 15% PASSES A #200 SIEVE.
- SUITABLE MATERIAL:** IN ROADS, ROAD SHOULDERS, WALKWAYS, AND TRAVELED WAYS, SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED FROM THE TRENCH DURING THE COURSE OF CONSTRUCTION, BUT SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, WET OR SOFT MUCK, PEAT OR CLAY, EXCAVATED LEDGE MATERIAL, AND ALL ROCKS OVER SIX INCHES IN LARGEST DIMENSION, OR ANY MATERIAL NOT APPROVED BY THE ENGINEER.
TRENCH BACKFILL IN CROSS-COUNTRY LOCATIONS SHALL BE SUITABLE MATERIAL AS DESCRIBED ABOVE, EXCEPT THAT TOP SOIL, LOAM, MUCK, OR PEAT MAY BE USED PROVIDED THAT THE COMPLETED CONSTRUCTION WILL BE STABLE AND ACCESS TO THE PIPE FOR MAINTENANCE AND RECONSTRUCTION IS PRESERVED. BACKFILL SHALL BE MOUND TO A HEIGHT OF SIX INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- BASE COURSE FOR TRENCH REPAIR** SHALL MEET THE REQUIREMENTS OF SECTION 300 OF THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OF THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION.
- SHEETING:** ALL TRENCH SUPPORTS SHALL CONFORM TO OSHA STANDARDS. CONTRACTOR IS RESPONSIBLE FOR OSHA COMPLIANCE AND WORKER SAFETY THROUGHOUT CONSTRUCTION.
- TRENCH DIMENSIONS:** W = MAXIMUM ALLOWABLE TRENCH WIDTH MEASURED 12 INCHES ABOVE THE PIPE. FOR PIPES 15 INCHES NOMINAL DIAMETER (D) OR LESS, W SHALL BE NO MORE THAN 36 INCHES; FOR PIPES GREATER THAN 15 INCHES NOMINAL DIAMETER, W SHALL BE 24 INCHES PLUS THE PIPE OUTSIDE DIAMETER. W SHALL ALSO BE THE PAYMENT WIDTH FOR LEDGE EXCAVATION AND FOR ORDERED EXCAVATION BELOW GRADE. THE MAXIMUM ALLOWABLE TRENCH PAVEMENT PAYMENT WIDTH SHALL BE 8 FEET CENTERED OVER PIPE.

12" TYP.	12" TYP.
12" MIN.	12" MIN.
36" MAX. (FOR D < OR = 15")	6" MIN. IN SOIL
	12" MIN. IN LEDGE
- PIPE INSULATION OVER SEWER AT STORM DRAIN CROSSING:** INSTALL 2" THICK RIGID FOAM INSULATION OVER SEWER AT STORM DRAIN CROSSINGS, EXTEND INSULATION 4 FEET EITHER SIDE OF STORM DRAIN ALONG SEWER.
- WATER/SEWER SEPARATION:** WATER MAINS SHALL BE SEPARATED FROM SANITARY SEWER BY A MINIMUM OF 10 FEET HORIZONTALLY AND A MINIMUM OF 18 INCHES VERTICALLY, WITH THE WATER MAIN ABOVE THE SEWER.
- PIPE COVER:** COVER OVER WATER SHALL BE 6 FEET MINIMUM IN ALL LOCATIONS.



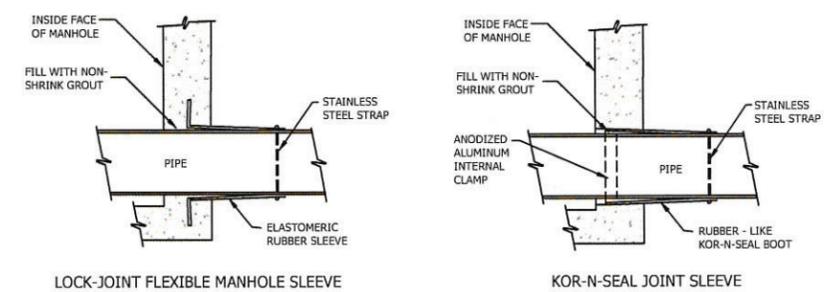
LEDGE/SUB PAVEMENT CONSTRUCTION



EARTH CONSTRUCTION WITH OR WITHOUT SHEETING

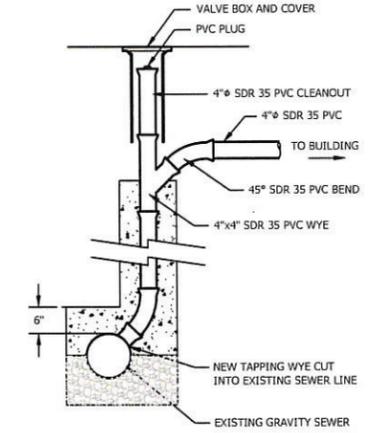
STANDARD WATER & SEWER TRENCH SECTIONS

NOT TO SCALE



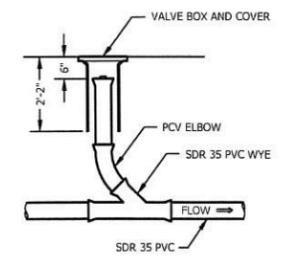
JOINTING DETAILS

NOT TO SCALE



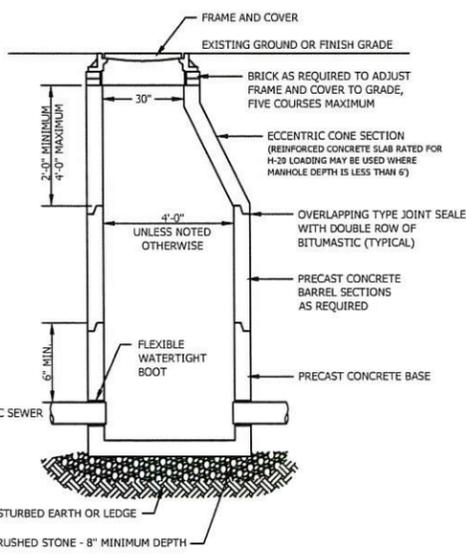
CHIMNEY AT NEW SEWER CONNECTION

NOT TO SCALE



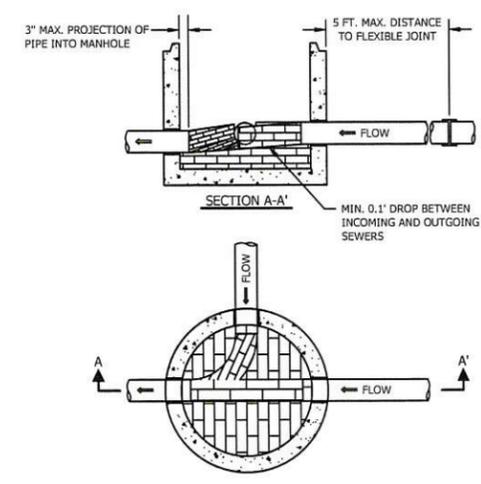
SEWER CLEANOUT DETAIL

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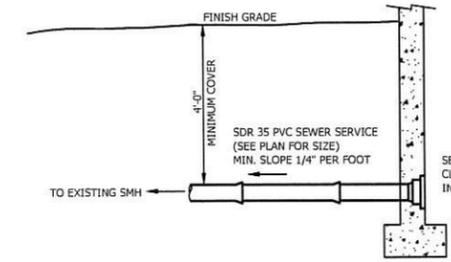
SANITARY SEWER MANHOLE DETAIL

NOT TO SCALE



MANHOLE INVERT DETAILS

NOT TO SCALE



SEWER SERVICE DETAIL

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SANITARY SEWER & WATER SYSTEM NOTES AND DETAILS

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DATE: SEPT 2016 PROJECT #: 16826
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C303

- BLOCKS MUST BE POURED AGAINST UNDISTURBED SOIL.
- THE PIPE JOINT AND BOLTS MUST BE ACCESSIBLE.
- CONCRETE SHOULD BE CURED FOR AT LEAST 5 DAYS AND SHOULD HAVE A COMPRESSION STRENGTH OF 3,000 LBS. AT 28 DAYS.
- BLOCKS MUST BE POSITIONED TO COUNTERACT THE DIRECTION OF THE RESULTANT THRUST FORCE.

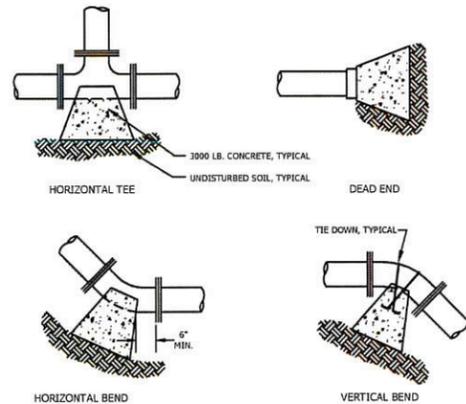
RESTRAINED JOINTS MAY BE USED FOR RESISTING THRUST FORCES WHERE THERE IS A SHORTAGE OF SPACE OR WHERE THE SOIL BEHIND A FITTING WILL NOT PROVIDE ADEQUATE SUPPORT. THIS RESTRAINING METHOD INVOLVES PLACEMENT OF THESE SPECIAL JOINTS AT APPROPRIATE FITTINGS AND FOR A PREDETERMINED NUMBER OF PIPE LENGTHS ON EACH SIDE, (MINIMUM 15 FEET).

NOMINAL PIPE DIA. (INCHES)	DEAD END	TOTAL THRUST (POUNDS)			
		90° BEND	45° BEND	2 1/2° BEND	1 1/4° BEND
4	1,310	2,559	1,355	705	355
6	3,739	5,288	2,862	1,459	733
8	6,433	9,097	4,923	2,510	1,261
10	9,677	13,685	7,406	3,776	1,897
12	13,655	19,353	10,414	5,340	2,683
14	18,385	26,021	14,072	7,174	3,604
16	23,779	33,628	18,199	9,278	4,661
18	29,865	42,235	22,858	11,653	5,855
20	36,644	51,822	28,046	14,298	7,183
24	52,279	73,934	40,013	20,398	10,249

NOTE:
TO DETERMINE THRUST AT PRESSURES OTHER THAN 100 PSI, MULTIPLY THE THRUST OBTAINED IN THE TABLE BY THE RATIO OF THE PRESSURE TO 100. FOR EXAMPLE, THE THRUST ON A 12 INCH, 90° BEND AT 125 PSI IS:
 $19,353 \times 125 = 24,191$ POUNDS

TO DETERMINE THE SIZE OF A CONCRETE THRUST BLOCK, DIVIDE THE TOTAL FORCE BY THE BEARING VALUE OF THE SOIL. THE QUOTIENT WILL BE THE SIZE OF THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET. APPROXIMATE VALUES FOR VARIOUS TYPES OF SOIL ARE LISTED BELOW.

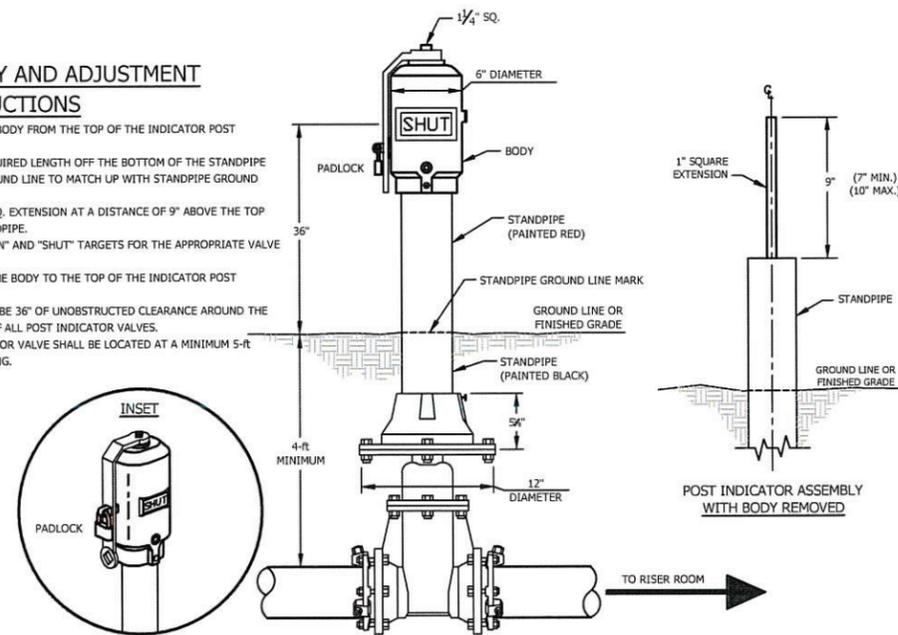
SOIL	BEARING LOAD (LBS./SQ. FT.)
MUCK	8
SOFT CLAY	1,000
SILT	1,500
SANDY SILT	3,000
SAND	4,000
SANDY CLAY	6,000



THRUST BLOCK NOTES & DETAILS
NOT TO SCALE

ASSEMBLY AND ADJUSTMENT INSTRUCTIONS

1. REMOVE THE BODY FROM THE TOP OF THE INDICATOR POST ASSEMBLY.
2. CUT THE REQUIRED LENGTH OFF THE BOTTOM OF THE STANDPIPE FOR THE GROUND LINE TO MATCH UP WITH STANDPIPE GROUND LINE MARK.
3. CUT THE 1" SQ. EXTENSION AT A DISTANCE OF 9" ABOVE THE TOP OF THE STANDPIPE.
4. SET THE "OPEN" AND "SHUT" TARGETS FOR THE APPROPRIATE VALVE SIZE.
5. RE-ATTACH THE BODY TO THE TOP OF THE INDICATOR POST ASSEMBLY.
6. THERE SHALL BE 36" OF UNOBSTRUCTED CLEARANCE AROUND THE PERIMETER OF ALL POST INDICATOR VALVES.
7. POST INDICATOR VALVE SHALL BE LOCATED AT A MINIMUM 5-FT FROM BUILDING.



POST-INDICATOR VALVE DETAIL

NOT TO SCALE
ADAPTED FROM TOWN OF CARY, NC STANDARD DETAIL

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**SANITARY SEWER & WATER SYSTEM
NOTES AND DETAILS**

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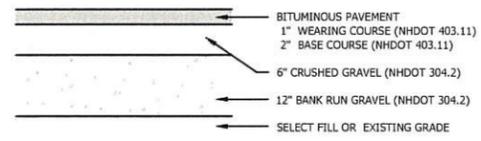
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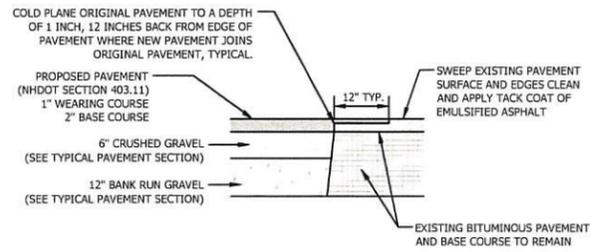
ENGINEER: WTD
DRAWN BY: CJH

CHECKED BY: ---
ARCHIVE #: H-

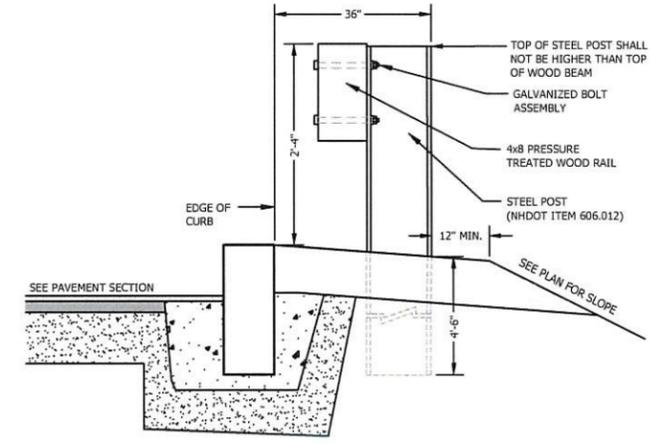
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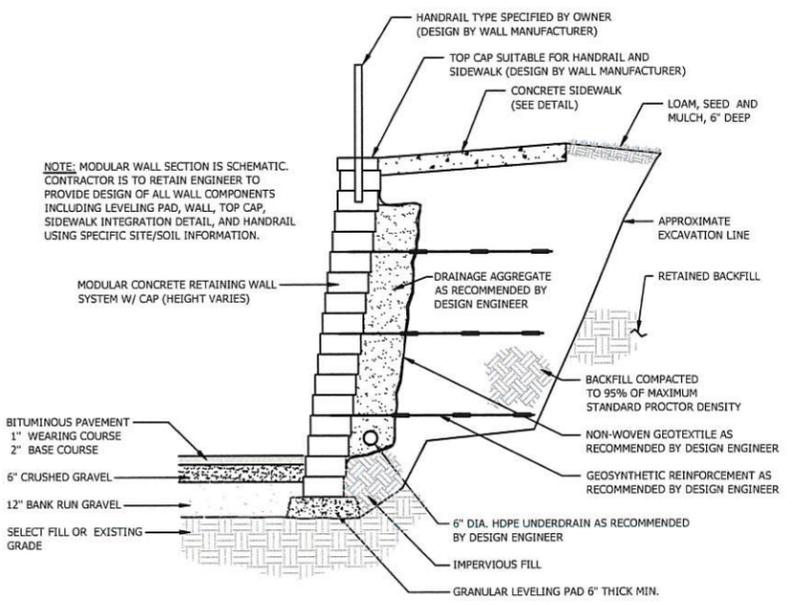
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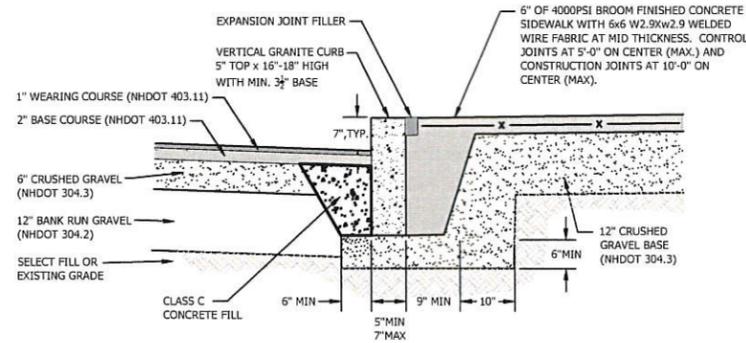
PAVEMENT JOINING DETAIL
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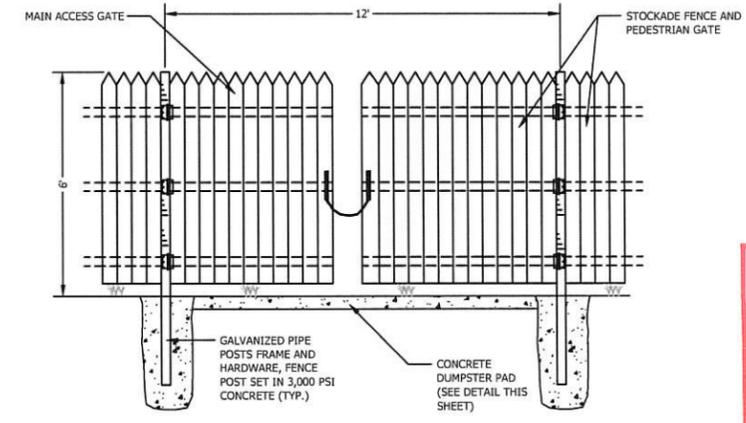
BEAM GUIDE RAIL / STEEL POSTS
NOT TO SCALE



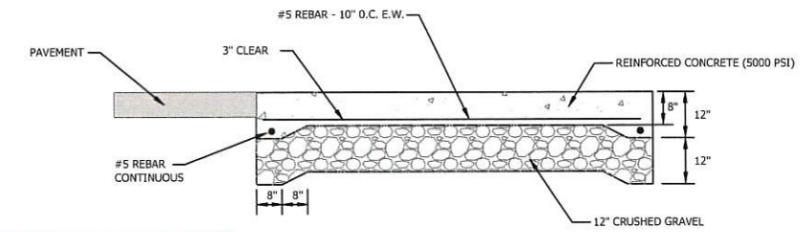
MODULAR RETAINING WALL DETAIL
NO SCALE



CONCRETE SIDEWALK WITH VERTICAL CURB DETAIL
NOT TO SCALE



SCREEN FENCE AND GATE FOR DUMPSTER PAD
NOT TO SCALE



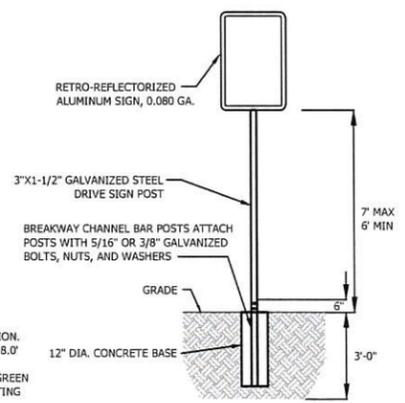
DUMPSTER PAD DETAIL
NOT TO SCALE

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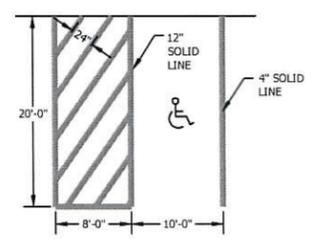
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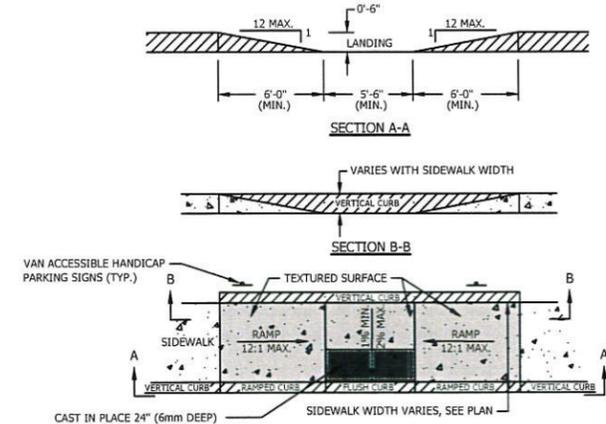
SIGN SUMMARY		
M.U.T.C.D. NUMBER	SPECIFICATION WIDTH HEIGHT	DESC.
R7-8	12" 18"	
R7-8B	12" 6"	



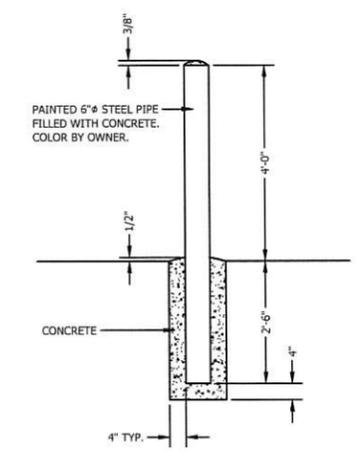
SIGNAGE DETAIL
NOT TO SCALE



ADA ACCESSIBLE PARKING DETAIL
NOT TO SCALE



SIDEWALK RAMP DETAIL
NOT TO SCALE



CONCRETE FILLED BOLLARD DETAIL
NOT TO SCALE

ADA SPECIFIC NOTES:
A. (1) SIGN AT EACH HANDICAP SPACE. SEE SITE PLAN FOR LOCATION. PROVIDE "VAN ACCESSIBLE" SIGNAGE AT SPACES ADJACENT TO 8.0' LOADING AREA.
B. SIGNS SHALL COMPLY WITH ADA AND M.U.T.C.D. STANDARDS. GREEN BORDER AND LETTERING ON WHITE BACKGROUND AND EXHIBITING INTERNATIONAL SYMBOL OF ACCESSIBILITY.

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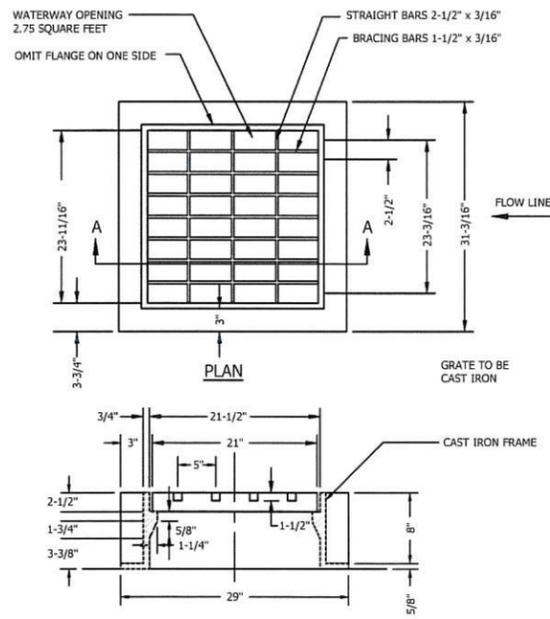
FRANK ANZALONE ASSOCIATES
COLONIAL PHARMACY
NEW LONDON, NEW HAMPSHIRE

DETAILS

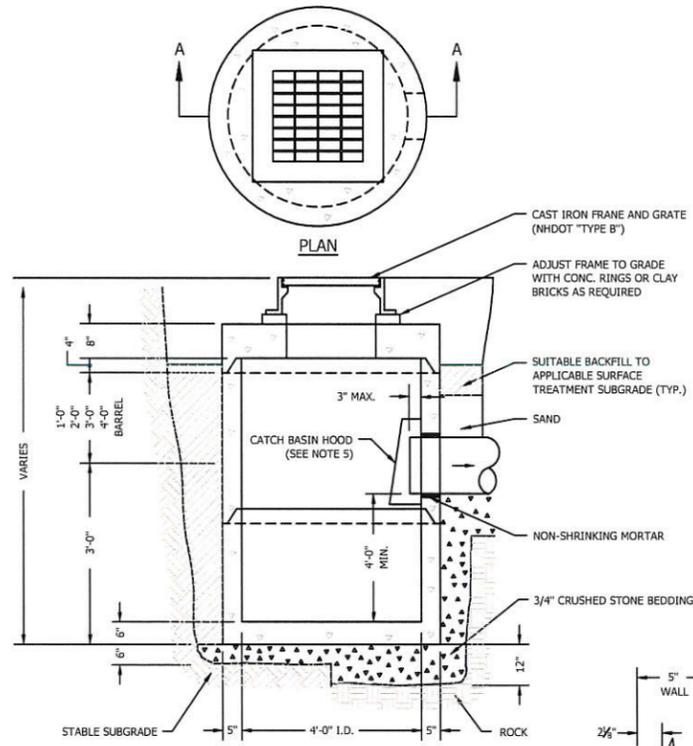
NO.	DATE	REVISION DESCRIPTION	ENG	DWG

DATE: SEPT 2016 PROJECT #: 16826
 ENG'D BY: WTD DRAWN BY: CJH
 CHECK'D BY: H- ARCHIVE #: H-
 C305

DATE OF PRINT
SEPTEMBER 20 2016
HORIZONS ENGINEERING

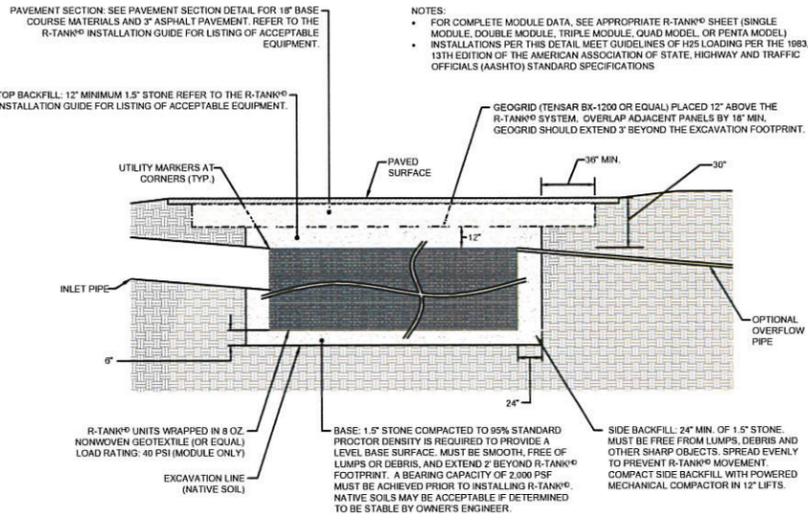


SECTION A - A
 REFERENCE:
 NH DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
 PLATE 2 OF STANDARD NO. 3
NHDOT TYPE "B" GRATE DETAIL
 NOT TO SCALE



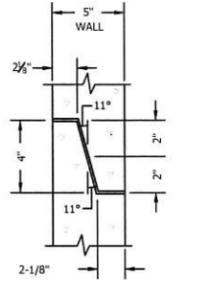
- NOTES:**
1. CONCRETE SHALL BE 4,000 P.S.I. AFTER 28 DAYS.
 2. REINFORCING H-20 LOADING 4 x 4/4 x 4 W.W.M.
 3. SHIP LAP JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LINEAR FT. AND SHALL BE SEALED WITH 1 STRIP OF 1" DIA. BUTYL RUBBER SEALANT.
 4. EACH CASTING TO HAVE LIFTING HOLES CAST IN.
 5. THE CATCH BASIN HOOD SHALL BE CONSTRUCTED FROM SOLID WALL HDPE PIPE GRADE PLATE. THE HOOD SHALL BE CONSTRUCTED SO THAT IT FORMS A BAFFLE AGAINST FLOATABLE LITTER AND OIL. THE HOOD SHALL PROTRUDE AT LEAST SIX INCHES OR 1/3 OF THE PIPE'S INSIDE DIAMETER, WHICHEVER IS GREATER, BELOW THE INVERT. THE CATCH BASIN HOOD SHALL BE SEALED TO THE CATCH BASIN STRUCTURE WITH AN OIL RESISTANT FOAM GASKET. VENT HOLES SHALL BE INSTALLED ON THE TOP OF THE HOOD TO ALLOW AIR FLOW INTO PIPE. THE CATCH BASIN HOOD SHALL BE ATTACHED TO THE STRUCTURE WITH STAINLESS STEEL ANCHOR STUDS AND NUTS, ALLOWING THE HOOD TO BE REMOVED AND INSTALLED WITH MINIMUM EFFORT. THE CATCH BASIN HOOD IS TO BE AS MANUFACTURED BY PLASTIC PIPE FABRICATION OR ENGINEER APPROVED EQUAL.

DEEP SUMP CATCH BASIN DETAIL
 NOT TO SCALE

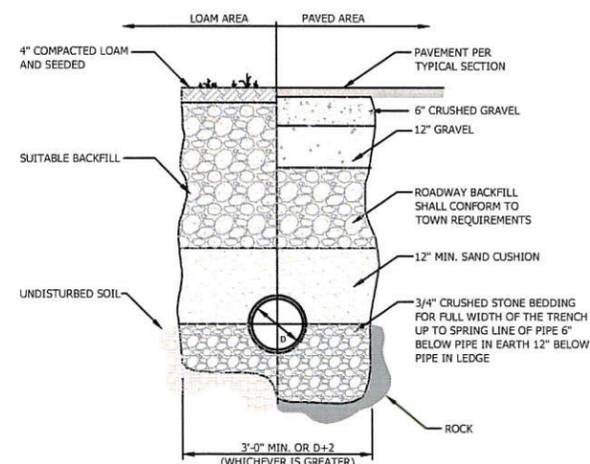


R-TANKHD - H25 LOADS

FOR ADDITIONAL INFORMATION PLEASE CONTACT: ACF ENVIRONMENTAL, 1-800-448-3636, www.acfenvironmental.com



DETAIL OF SHIP LAP JOINT



TYPICAL DRAINAGE TRENCH DETAIL
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DATE: SEPT 2016	PROJECT #: 16826
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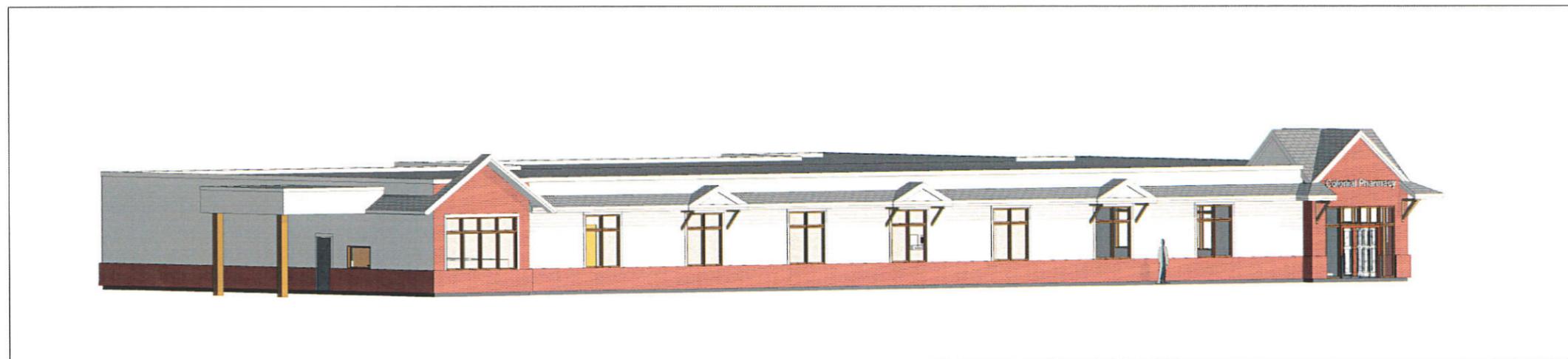
DATE OF PRINT: **SEPTEMBER 20 2016**
 HORIZONS ENGINEERING

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C306



1 PERSPECTIVE - SOUTH EAST
SCALE:



2 PERSPECTIVE - SOUTH WEST
SCALE:

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Frank Anzalone Associates
Architects and Planners
P.O. Box 1016
New London, NH 03257
Phone: 603.526.8911
Fax: 603.526.8922
www.faa-arch.com

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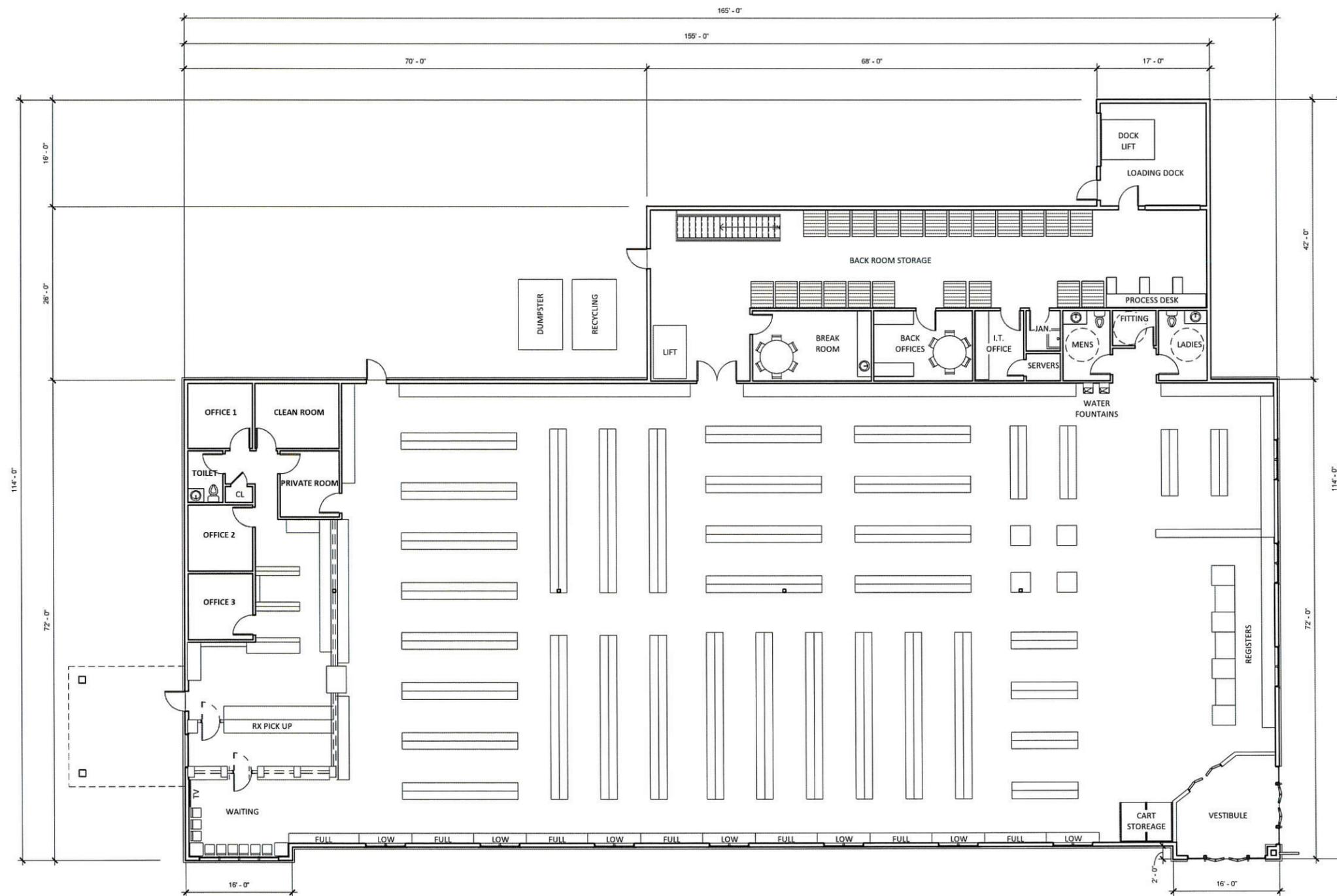
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No.	Description	Date

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NEWPORT ROAD
NEW LONDON, NH

COLONIAL PHARMACY
EXTERIOR
PERSPECTIVE

Project Number: 16010
Date: 09.20.16
Scale:
Sheet:
A-0.1



1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

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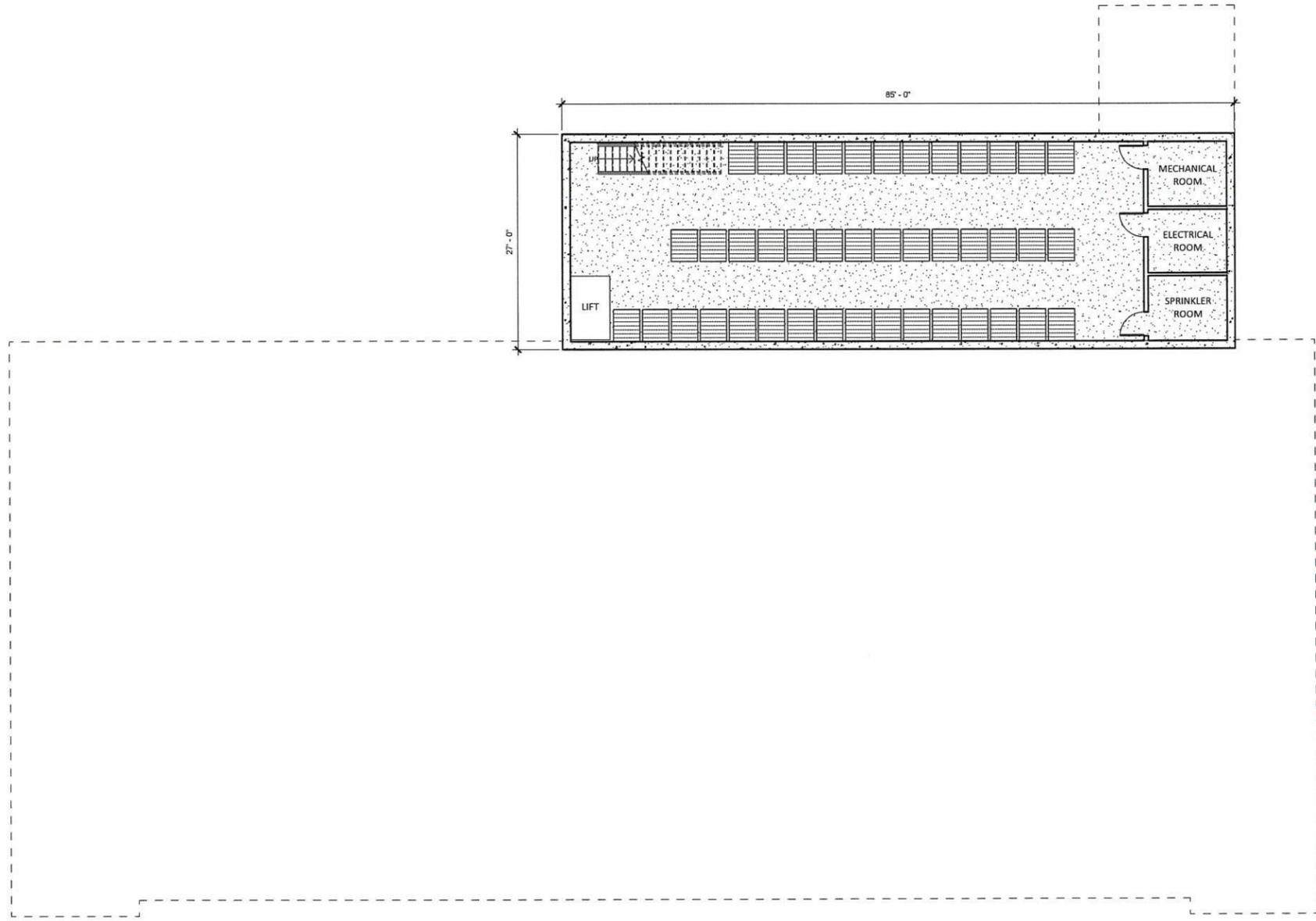
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No. Description Date

COLONIAL PHARMACY
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NEW LONDON, NH

COLONIAL PHARMACY
FIRST FLOOR
PLAN
Project Number: 16010
Date: 09.20.16
Scale: 1/8" = 1'-0"
Sheet: A-1.1

1 LOWER LEVEL PLAN
SCALE: 1/8" = 1'-0"



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COLONIAL PHARMACY
**LOWER LEVEL
PLAN**

Project Number: 16010
Date: 09.20.16
Scale: 1/8" = 1'-0"
Sheet: A-1.2

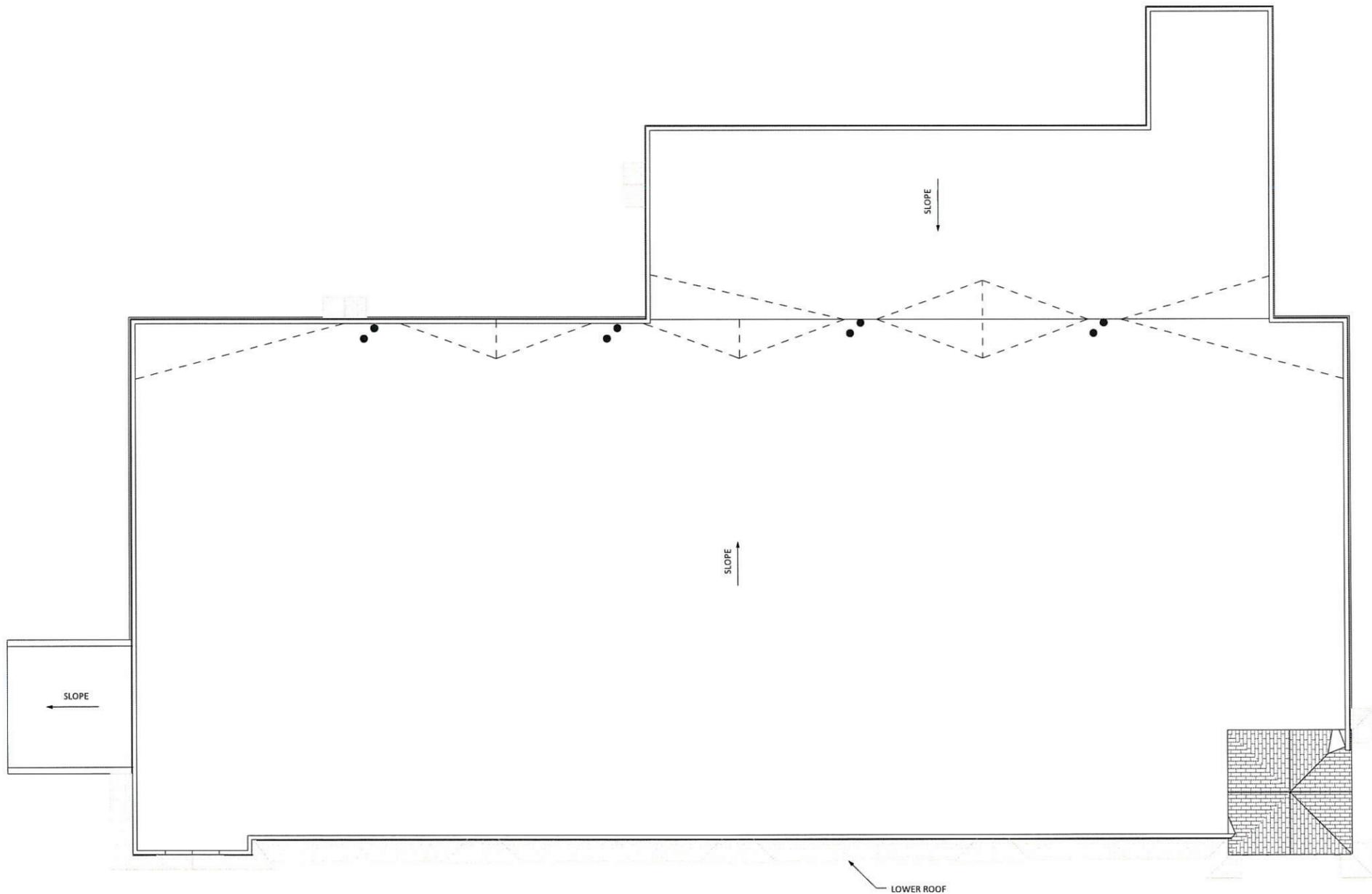
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1 ROOF PLAN
SCALE: 1/8" = 1'-0"

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No.	Description	Date

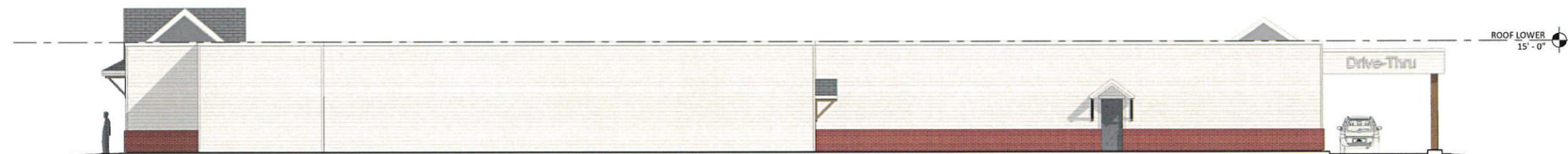
COLONIAL PHARMACY
NEWPORT ROAD
NEW LONDON, NH

COLONIAL PHARMACY
ROOF PLAN

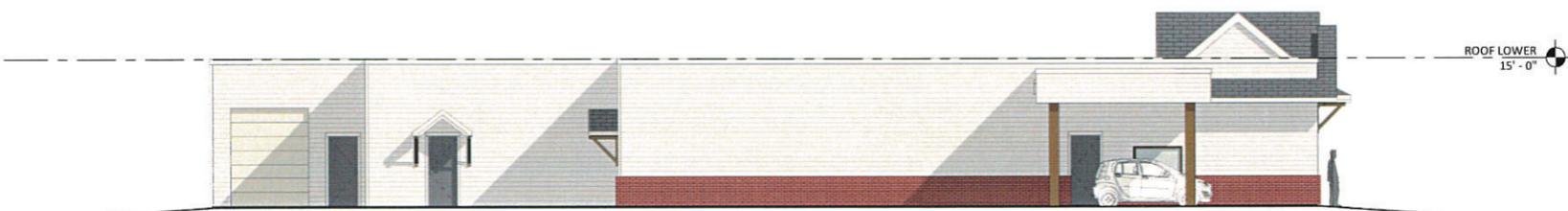
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Date:	09.20.16
Scale:	1/8" = 1'-0"
Sheet:	A-1.3



1 EXTERIOR ELEVATION - SOUTH
SCALE: 1/8" = 1'-0"



2 EXTERIOR ELEVATION - NORTH
SCALE: 1/8" = 1'-0"



3 EXTERIOR ELEVATION - WEST
SCALE: 1/8" = 1'-0"



4 EXTERIOR ELEVATION - EAST
SCALE: 1/8" = 1'-0"

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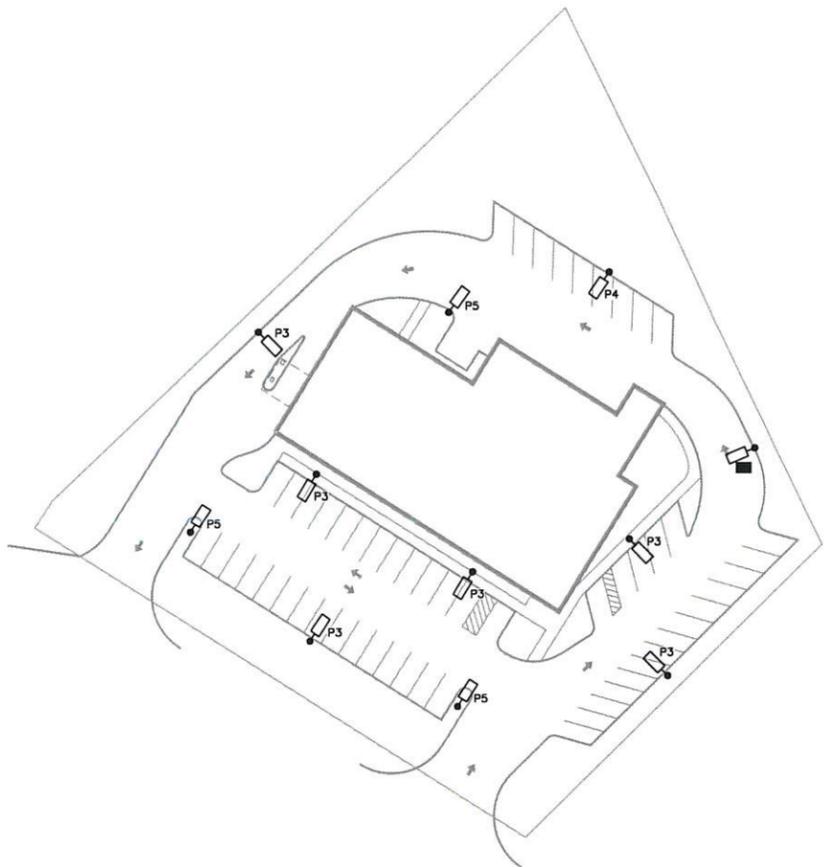
No.	Description	Date

COLONIAL PHARMACY
NEWPORT ROAD
NEW LONDON, NH

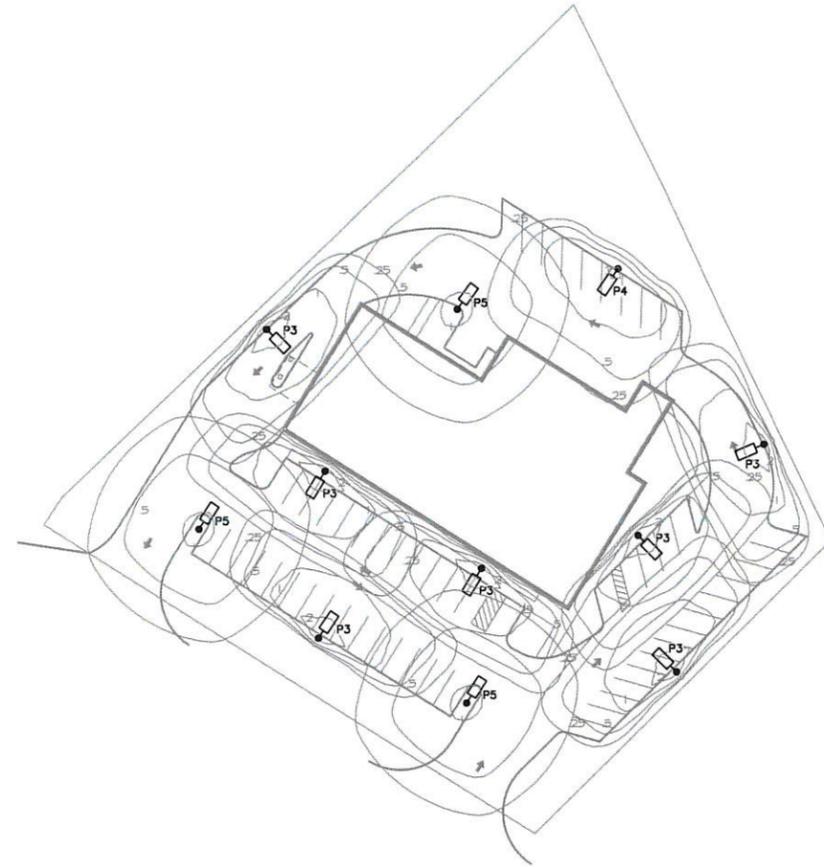
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EXTERIOR ELEVATIONS

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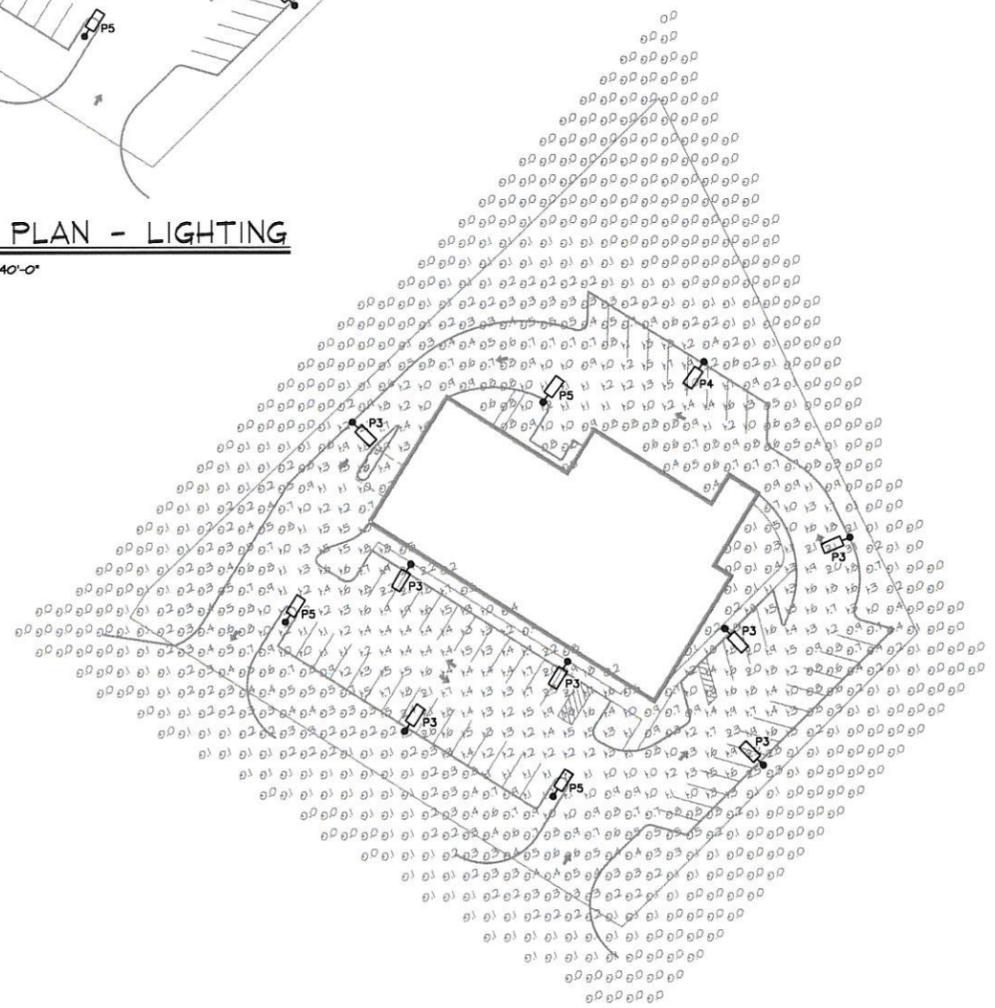
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1 SITE PLAN - LIGHTING
LI SCALE: 1" = 40'-0"



2 SITE PLAN - ISO FOOTCANDLE DISPLAY
LI SCALE: 1" = 40'-0"



3 SITE PLAN - POINT-BY-POINT DISPLAY
LI SCALE: 1" = 40'-0"

LIGHT FIXTURE SCHEDULE				
LIGHT	MANUFACTURER	MODEL NO.	LAMP WATTS/TYPE	MOUNTING
P3	COOPER LIGHTING	GLEON-AF-OI-LED-EI-SL3-HSS/ 20' AF6	LED	POLE MOUNT 20' AF6
P4	COOPER LIGHTING	GLEON-AF-OI-LED-EI-SL4	LED	POLE MOUNT 20' AF6
P5	COOPER LIGHTING	GLEON-AF-OI-LED-EI-SNG/ 20' AF6	LED	POLE MOUNT 20' AF6

LIGHT FIXTURE SCHEDULE NOTES

- ALL FIXTURES MEET IES-MA FULL CUT-OFF CLASSIFICATION.
- CUSTOMER PARKING AREAS: Average = 1.39, 2.9 Maximum, 0.4 Minimum, Avg/Mn Ratio = 3.46, Max/Mn Ratio = 7.25
- ALL PAVED DRIVES AND PARKINGS: Average = 1.20, Maximum = 3.1, Minimum = 0.3, Avg/Mn Ratio = 4.00, Max/Mn Ratio = 10.33



4 TYPE "P" FIXTURES
LI SCALE: NONE

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RENO ENGINEERING
& LIGHT DESIGN
MARLOW, NH 03456
603-446-3426, 603-446-3731 (F)
EMAIL: renoengineering@renoglightdesign.com
Project Number: 1639

FRANK ANZALONE
ASSOCIATES
PHARMACY
NEW LONDON, NEW HAMPSHIRE

SITE PLAN - LIGHTING LAYOUT

NO.	DATE	REVISION DESCRIPTION	ENG	DWG

DATE:	PROJECT #:
SEPT 2016	16826
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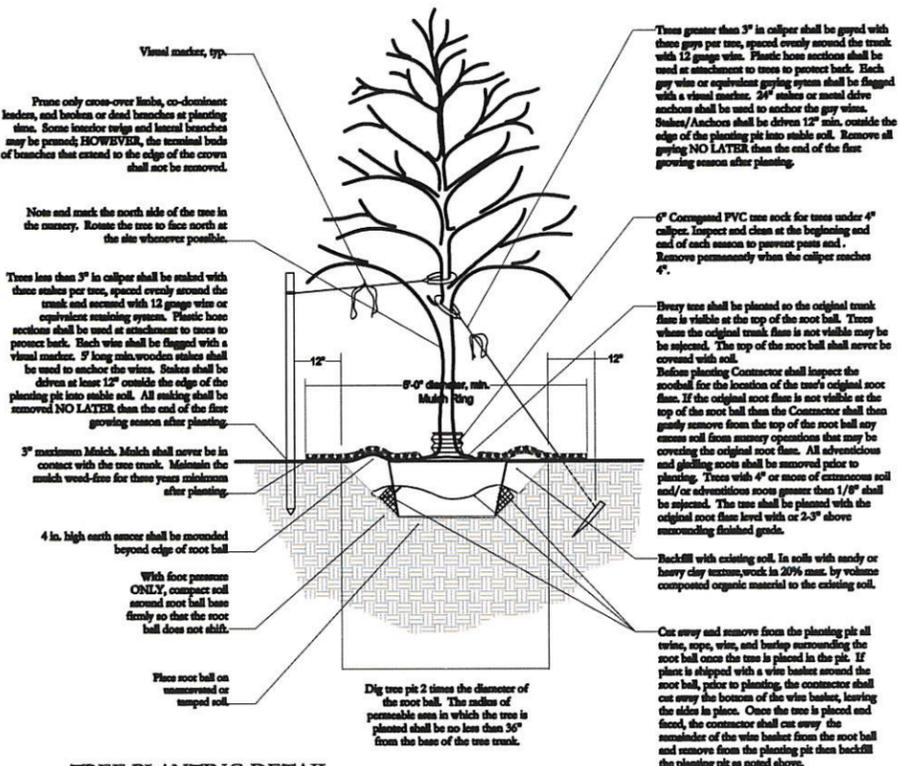
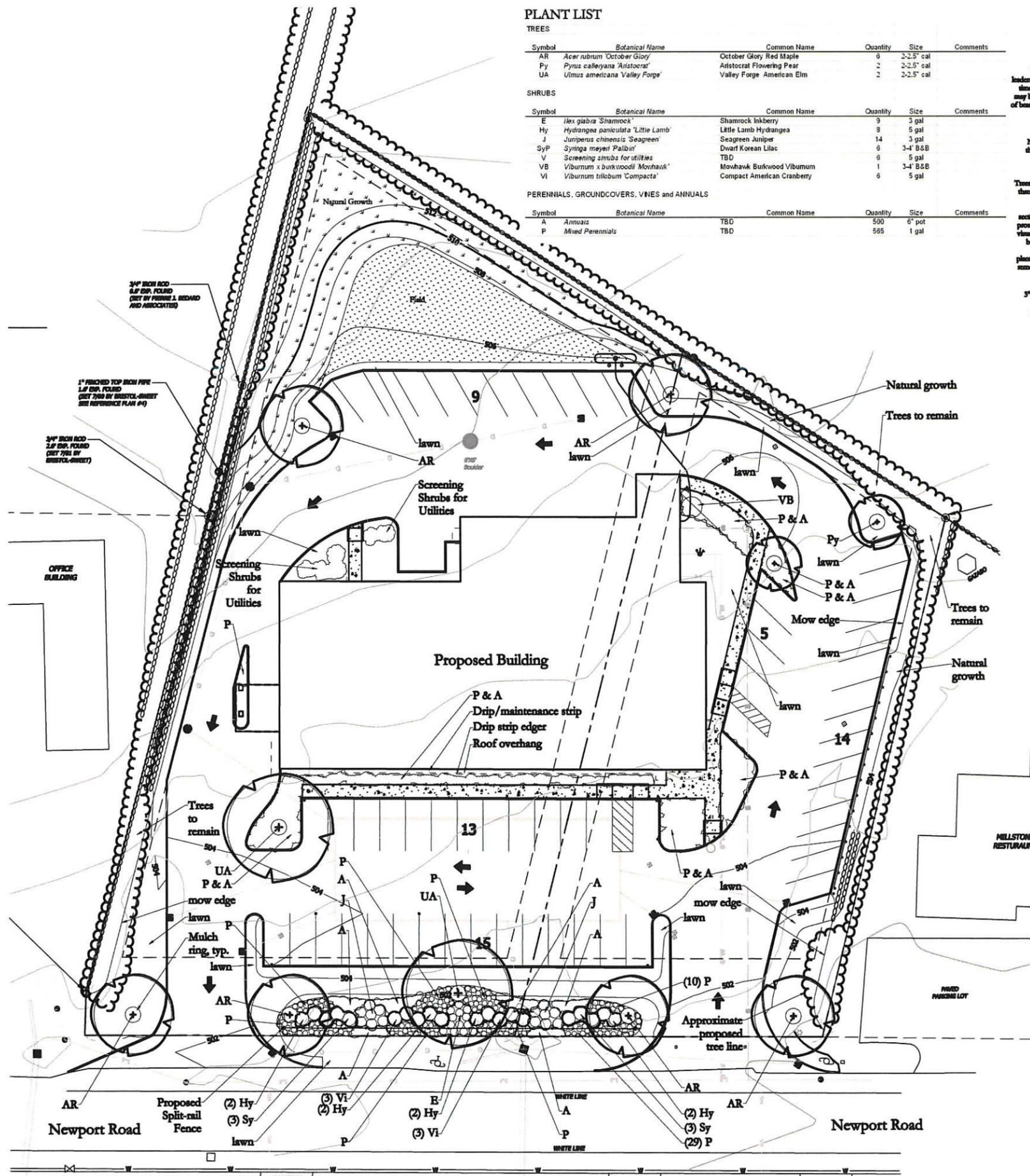
L1

PLANT LIST

TREES					
Symbol	Botanical Name	Common Name	Quantity	Size	Comments
AR	<i>Acer rubrum</i> 'October Glory'	October Glory Red Maple	9	2-2.5' cal	
Py	<i>Pyrus calleryana</i> 'Antioctar'	Antioctar Flowering Pear	2	2-2.5' cal	
UA	<i>Ulmus americana</i> 'Valley Forge'	Valley Forge American Elm	2	2-2.5' cal	

SHRUBS					
Symbol	Botanical Name	Common Name	Quantity	Size	Comments
E	<i>Ilex glabra</i> 'Shamrock'	Shamrock Inkberry	9	3 gal	
Hy	<i>Hydrangea paniculata</i> 'Little Lamb'	Little Lamb Hydrangea	8	5 gal	
J	<i>Juniperus chinensis</i> 'Seagreen'	Seagreen Juniper	14	3 gal	
SyP	<i>Syringa meyeri</i> 'Palibin'	Dwarf Korean Lilac	9	3-4 B&B	
V	Screening shrubs for utilities	TBD	6	5 gal	
VB	<i>Viburnum x burkwoodii</i> 'Mouhauk'	Mouhauk Burkwood Viburnum	1	3-4 B&B	
VI	<i>Viburnum trilobum</i> 'Compacta'	Compact American Cranberry	6	5 gal	

PERENNIALS, GROUNDCOVERS, VINES and ANNUALS					
Symbol	Botanical Name	Common Name	Quantity	Size	Comments
A	Annuaus	TBD	500	6" pot	
P	Mixed Perennials	TBD	555	1 gal	



TREE PLANTING DETAIL

scale: NTS

LANDSCAPE NOTES

- Design is based on drawings by Hodsons Engineering received 9/19/2016 and on drawings by Frank Ammons Associates received 9/19/2016 and layout in the field may require adjustment due to actual field conditions.
- This plan is for REVIEW purposes only, NOT for Construction. Construction Documents will be provided upon request.
- The Contractor shall obtain required permits prior to the start of construction.
- The Contractor shall verify grades and layout and shall notify the Landscape Architect or Client's Representative of any discrepancies or changes in layout and/or grades prior to construction.
- Trees to Remain within the construction zone shall be protected from damage for the duration of the project by snow fences or other suitable means of protection to be approved by Landscape Architect or Client's Representative. Tree Protection Fencing shall be located at the drip line of trees at a minimum and shall include any and all surface roots. Do not fill or mulch on the trunk flares. Do not disturb roots. In order to protect the health and visibility of the roots, branches, trunk and bark of the tree(s) NO vehicles or construction equipment shall drive or park in or on the area within the drip line(s) of the tree(s). Storage of refuse or construction materials or positions within the tree protection area shall not be allowed.
- The contractor shall follow best management practices during construction and shall take all means necessary to stabilize and protect the project site from erosion. Erosion Control shall be installed prior to construction. Erosion Control shall comply with New Hampshire Highway Department Standards and at a minimum shall be installed in place between the work and Water bodies, Wetlands and/or discharge ways prior to any construction.
- The Contractor shall verify exact location and elevation of all utilities with the respective utility owners prior to construction. Call DIGSAFE at 1-888-344-7233. Location, support, protection, and restoration of all existing utilities and appurtenances shall be the responsibility of the Contractor.
- Prior to any landscape construction activities Contractor shall have all existing loam and loess from off-site intended to be used for lawns and plant areas tested using a laboratory sampling throughout the supply. Soil testing shall include levels of pH, nitrate, macro and micro nutrients, texture, soluble salts, and organic matter. Contractor shall provide Landscape Architect with test results and recommendations from the testing facility along with soil amendment plans as necessary for the proposed plantings to thrive. All loam to be used on site shall be amended as approved by the Landscape Architect prior to placement.
- The Contractor shall provide and place all plants shown and listed on the construction drawings. All plants shall be nursery-grown under climatic conditions similar to those in the project's locality. Plants shall meet the standards of nomenclature, size, culture, and quality for the highest grades and standards as adopted by the American Association of Nurserymen, Inc. stated in the latest version of American Standard of Nursery Stock, American Standards Institute, Inc. 230 Southern Building, Washington, D.C. 20005.
- A complete list of plants, including a schedule of sizes, quantities, and other requirements is shown on the drawings. In the event that quantity discrepancies or material omissions occur in the plant materials list, the planting plans shall govern.
- All plants shall be legibly tagged with proper botanical name.
- Owner or Owner's Representative will inspect plants upon delivery for conformity to Specification requirements. Such approval shall not affect the right of inspection and rejection during or after the progress of the work. The Owner reserves the right to inspect and/or select all trees at the place of growth. Such sample will serve as a minimum standard for all plants of the same species used in this work.
- No substitutions of plants may be made without prior approval of the Owner or the Owner's Representative for any reason.
- The Contractor shall guarantee all plants for not less than one year from time of acceptance.
- All landscaping shall be provided with either an underground irrigation system OR an outside hose attachment within 150 feet. If an automatic irrigation system is installed, all irrigation valve boxes shall be located within planting bed areas. Maintaining irrigation heads is the responsibility of the owner alone.
- All disturbed areas will be dressed with 6" of topsoil and planted as noted on the plans or seeded except plant beds. Plant beds shall be prepared to a depth of 12" with 75% loam and 25% compost.
- Trees, ground cover, and shrub beds shall be mulched to a depth of 2" with one-year-old, well-composted, shredded native bark not longer than 4" in length and 1/2" in width, free of woodchips and sawdust. Mulch for ferns and herbaceous perennials shall be no longer than 1" in length. Trees in lawn areas shall have a 5' diameter min. mulch saucer. Color of mulch shall be natural or black.
- Areas designated as LAWN shall be mown regularly.
- Areas designated as FIELD shall be mown once per year after September to deter woody growth. Field grass shall NOT be mown when the ground is wet to reduce the chance of compaction that decreases infiltration and rutting that causes erosion.
- Areas designated as NATURAL GROWTH shall be protected and shall remain in a natural state, native tree, shrub, grass and forb areas changing without intervention. If exotic invasive plants need to be removed, the soil shall remain undisturbed. Mulch placed around trees in this area shall only be maintained until the proposed plant is fully established.
- Owner is solely responsible for maintaining vehicular and pedestrian vision lines pertaining to vegetation growth.
- Drip strip shall extend to 6" beyond roof overhang and shall be edged with 3/16" thick metal edge.
- In no case shall mulch touch the stem of a plant nor shall mulch ever be more than 3" thick total (including previously applied mulch) over the root ball of any plant.
- Secondary lateral branches of deciduous trees overhanging vehicular and pedestrian travel ways shall be pruned up to a height between 6'-8' to allow clear and safe passage of vehicles and pedestrians under tree canopy.
- Snow shall be stored at a minimum of five feet away from the base of all trees and shrub areas.
- Landscape Architect is not responsible for the means and methods of the contractor.

Wendy S. Anderson, ASLA
Landscape Architecture
New Durham, NH 03855
603.581.5756

Design By:
WSA
Drawn By:
WSA
Date:
September 20, 2016

Scale:
1"=20'-0"
0 20' 40'

Colonial Pharmacy
Preliminary Landscape Design Plan

Newport Road, New London, New Hampshire

Revisions:

Concept Landscape
Plan for
Review ONLY
2016-09-20

Sheet:

LA-1

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