

GENERAL NOTES:

THE PURPOSE OF THIS PLAN IS TO SHOW A 4 BAY GARAGE FOR SERVICE/REPAIRS OF CARS AND TRUCKS AND A PORTION FOR AN OFFICE, AS WELL AS A PROPOSED AREA ON SITE FOR OIL FUEL STORAGE TANKS.

THIS PROJECT WILL BE SUPPLIED BY TOWN WATER AND SANITARY SEWER. BOTH TOWN CONNECTIONS ARE SHOWN ON THE PLANS. CONTRACTOR SHALL PRIOR TO CONSTRUCTION, FIELD VERIFY LOCATION AND ELEVATION.

A GRAVITY RETAINING WALL IS PROPOSED NEAR THE WESTERN WETLAND SETBACK LINE. CONTRACTOR SHALL PROVIDE DESIGN TO THE OWNER AND AS NECESSARY TO THE TOWN FOR APPROVAL PRIOR TO CONSTRUCTION.

A CULTEC RECHARGER 902HD UNDERGROUND SYSTEM IS PROPOSED. CONTRACTOR SHALL CO-ORDINATE WITH CULTEC, INC. FOR FINAL DESIGN, MATERIAL SPECIFICATIONS AND INSTALLATION PROCEDURES PRIOR TO ORDERING PRODUCT TO ENSURE CULTEC'S MINIMUM REQUIREMENTS ARE MET.

CONCRETE PAD DESIGN SHALL BE INCLUDED WITH THE DESIGN OF THE FUEL STORAGE TANKS.

THIS PROJECT IS A MATERIAL FILL PROJECT. CONTRACTOR SHALL CO-ORDINATE WITH A LICENSED SOIL PROFESSIONAL TO ENSURE THAT THE FILL PLACED WITHIN THE PROJECT MEETS THE STRUCTURAL OBJECTEDS FOR THE SITE INCLUDING MATERIALS AND COMPACTION.

APPROVED BY THE HUDSON PLANNING BOARD

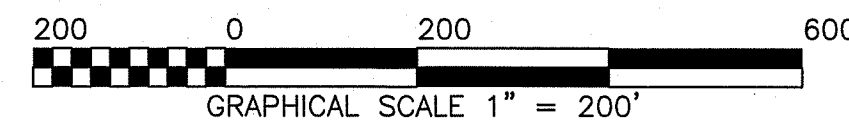
DATE OF MEETING: _____

PLANNING BOARD CHAIRMAN SIGNATURE DATE

SECRETARY SIGNATURE DATE

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REVISIONS:

GENEAL NOTES

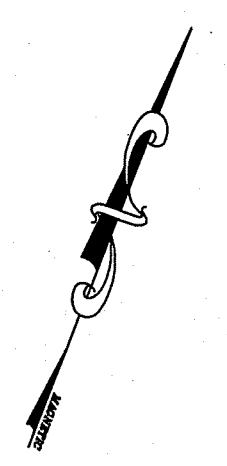
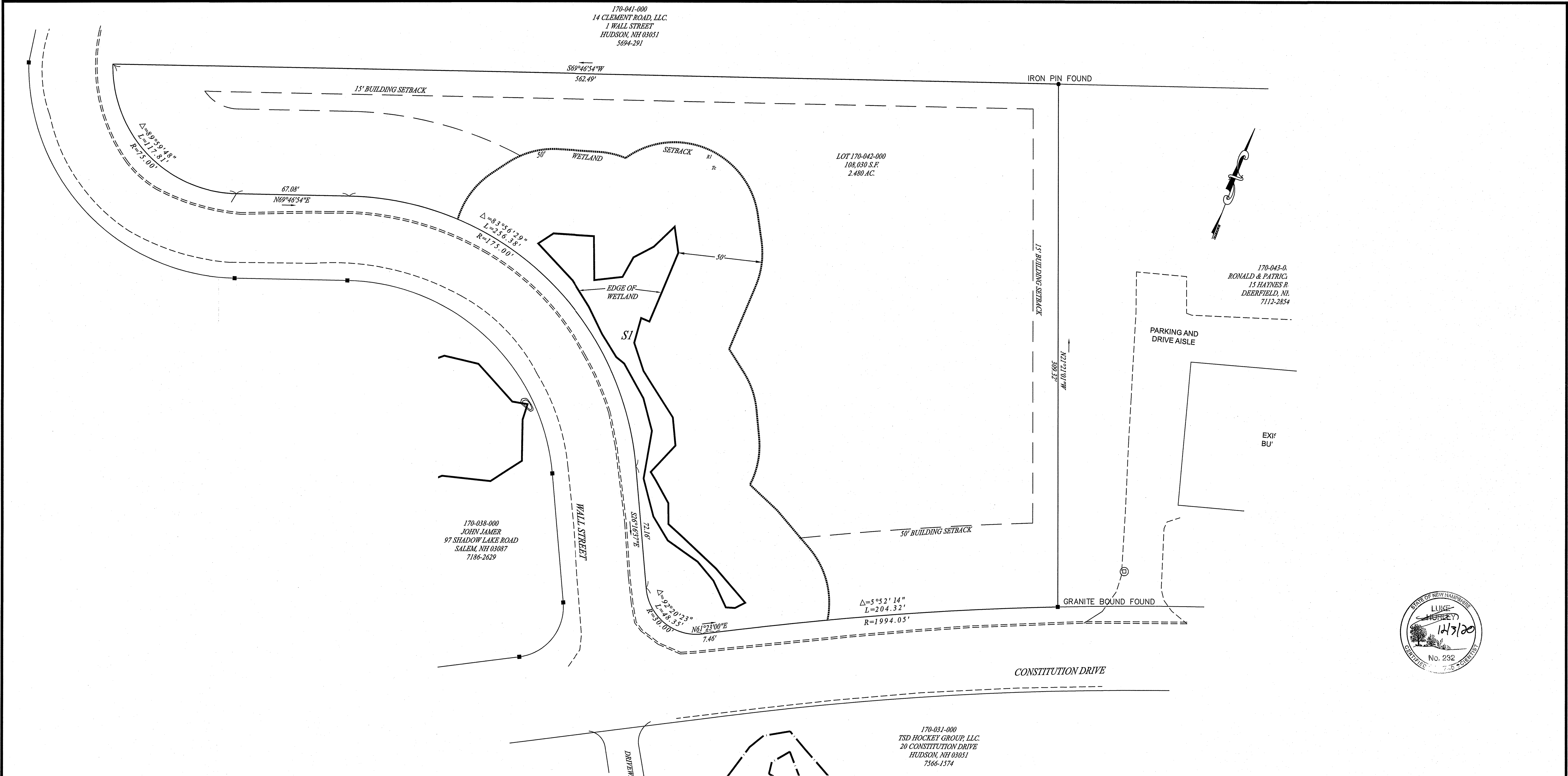
SITE PLAN
MAP 170 / LOT 042-000
19 CONSTITUION DRIVE
HUDSON, NH

PREPARED FOR:
B & H OIL COMPANY, INC.
6 STARWOOD DRIVE
HAMPSTEAD, NH 03841

SCALE: 1" = 200'

DATE: NOVEMBER, 2020

EDWARD N. HERBERT ASSOC., INC
LAND SURVEYORS - CIVIL ENGINEERS
1 FROST ROAD WINDHAM, NH 03087 (603) 432-2462



APPROVED BY THE HUDSON PLANNING BOARD

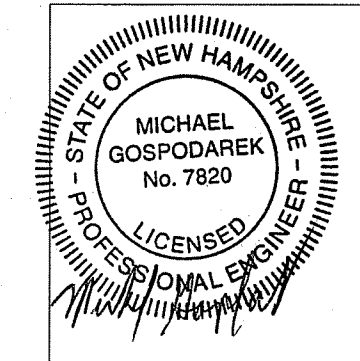
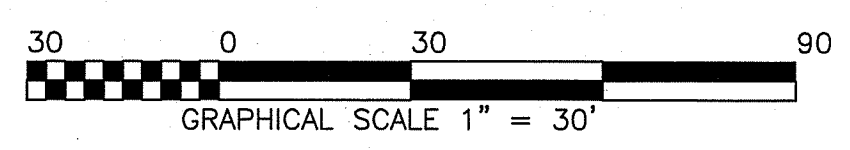
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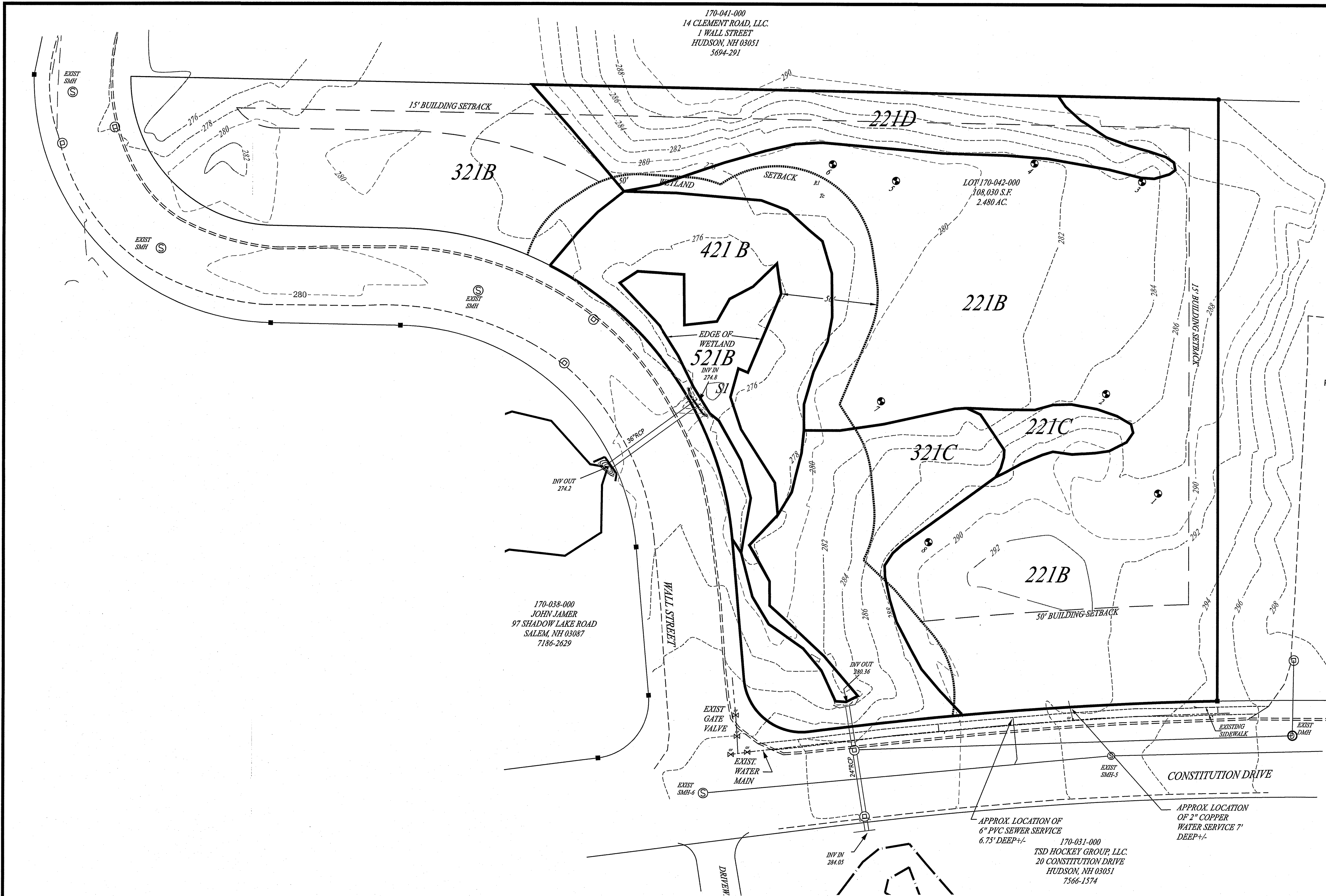
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REVISIONS:
BOUNDARY PLAN
SITE PLAN MAP 170 / LOT 042-000 19 CONSTITUTION DRIVE HUDSON, NH
PREPARED FOR: B & H OIL COMPANY, INC. 6 STARWOOD DRIVE HAMPSTEAD, NH 03841
SCALE: 1" = 30' DATE: NOVEMBER, 2020
EDWARD N. HERBERT ASSOC., INC LAND SURVEYORS - CIVIL ENGINEERS 1 FROST ROAD WINDHAM, NH 03087 (603) 432-2462

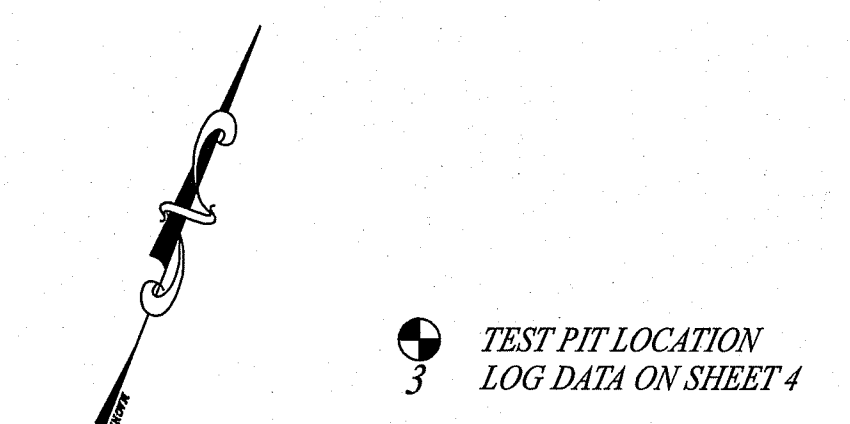


170-041-000
14 CLEMENT ROAD, LLC.
1 WALL STREET
HUDSON, NH 03051
5694-291

LOT 170-042-000
108,030 S.F.
2.480 AC.

170-038-000
JOHN JAMER
97 SHADOW LAKE ROAD
SALEM, NH 03087
7186-2629

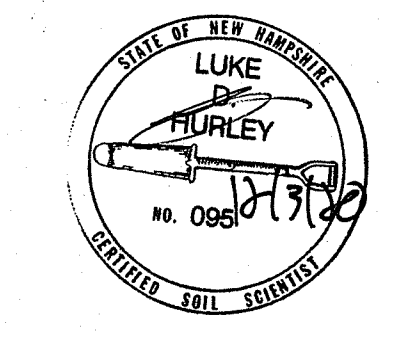
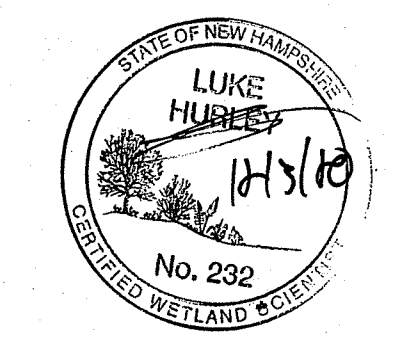
170-031-000
TSD HOCKEY GROUP, LLC
20 CONSTITUTION DRIVE
HUDSON, NH 03051
7566-1574



SOIL MAPPED BY GOVE ENVIRONMENTAL SERVICES, INC. 9-20-20

MAPPING STANDARDS
SITE-SPECIFIC SOIL MAPPING STANDARDS OF NEW HAMPSHIRE AND VERMONT. SSSNNE SPECIAL PUBLICATION NO. 3, VERSION 5.0, DECEMBER 2017. THIS MAP PRODUCT IS WITHIN THE TECHNICAL STANDARDS OF THE NATIONAL COOPERATIVE SOIL SURVEY. IT IS A SPECIAL PRODUCT, INTENDED FOR THE SITE SPECIFIC SOIL SURVEY. IT WAS PRODUCED BY A PROFESSIONAL SOIL SCIENTIST AND IS NOT A PRODUCT OF THE USDA NATURAL RESOURCE CONSERVATION SERVICE.

HISS SYMBOL	NRCS SYMBOL	SOIL TAXONOMIC NAME	AREA S.F.
221	42	CANTON	62,974
321		NEWFIELDS	30,473
421	921	NEWFIELDS VARIANT	10,425
521	656/P	RIDGEBURY	4,160

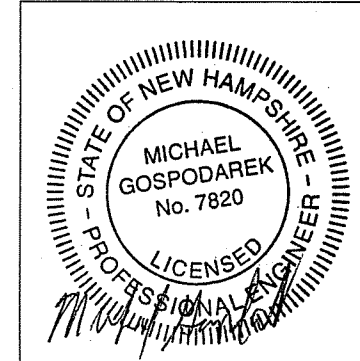
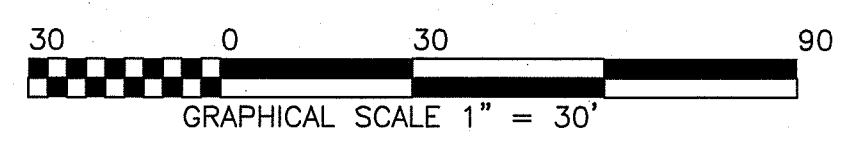


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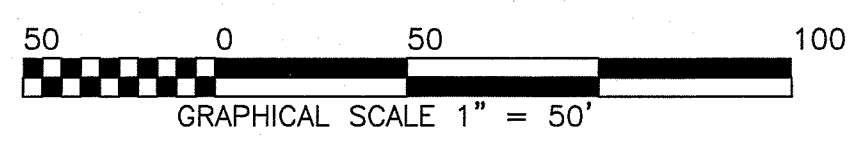
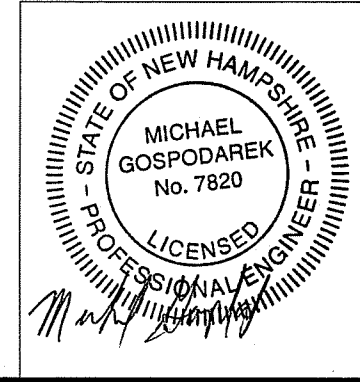
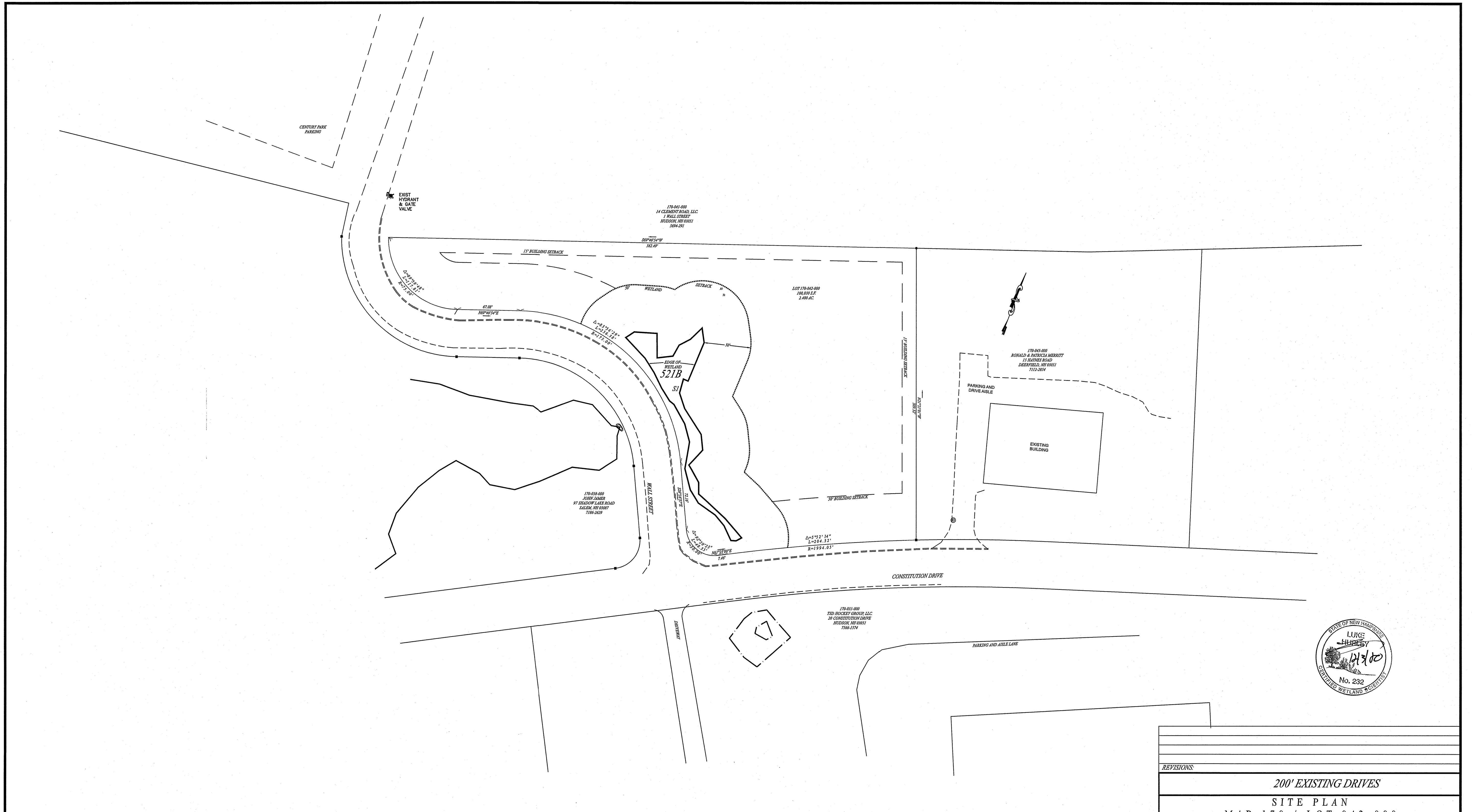
EXISTING CONDITIONS

SITE PLAN
MAP 170 / LOT 042-000
19 CONSTITUTION DRIVE
HUDSON, NH

PREPARED FOR:
B & H OIL COMPANY, INC.
6 STARWOOD DRIVE
HAMPSTEAD, NH 03841

SCALE: 1" = 30' DATE: NOVEMBER, 2020

EDWARD N. HERBERT ASSOC., INC
LAND SURVEYORS - CIVIL ENGINEERS
1 FROST ROAD WINDHAM, NH 03087 (603) 432-2462



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REVISIONS:

200' EXISTING DRIVES

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 6 STARWOOD DRIVE
 HAMPSTEAD, NH 03841

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EDWARD N. HERBERT ASSOC., INC
 LAND SURVEYORS - CIVIL ENGINEERS
 1 FROST ROAD WINDHAM, NH 03087 (603) 432-2462

Test Pit #	Date	Perc rate min/in	Top soil	SHWT	Water	Ledge	Description
1	09-02-20		4"	4.2' ROOTS	NONE ENC.	5.0'	0-4" 10YR 3/2 FINE SANDY LOAM 0.4"-24" 10Y 5/6 LOAMY SAND, MEDIUM FRIABLE 24"-50" 2.5Y 6/3 STONY LOAMY SAND, MEDIUM FRIABLE 50"-63" 2.5Y 6/4 FINE SANDY LOAM MEDIUM, FRIABLE
2	09-02-20		2.5"	NONE	NONE ENC.	4.2'	0-2.5" 2.5YR 6/3 STONY LOAME SAND 2.5"-42" 10 Y 5/6 LOAMY SAND MEDIUM FRIABLE 42"-50" 2.5 Y 6/4 LOAMY SAND MEDIUM FRIABLE
3	09-02-20		3"	4.6' ROOTS	NONE ENC.	6.7'	0-3" 10YR 3/2 FINE SANDY LOAM 0.3"-38" 2.5Y 6/4 STONY LOAMY SAND, MEDIUM FRIABLE 38"-55" 2.5Y 6/3 STONY LOAMY SAND, MEDIUM FRIABLE 55"-80" 2.5Y 5/3 STONY LOAMY SAND MEDIUM, FRIABLE
4	09-02-20		3"	3.5' ROOTS	NONE ENC.	4.7'	0-3" 10YR 3/2 FINE SANDY LOAM GRANULAR, FRIABLE 0.3"-30" 2.5Y 5/3 STONY LOAMY SAND, MEDIUM FRIABLE 30"-42" 2.5Y 6/3 STONY LOAMY, MEDIUM FRIABLE 42"-56" 2.5Y 6/4 LOAMY SAND MEDIUM, FRIABLE
5	09-02-20		3"	3.4'	NONE ENC.	5.8'	0-3" 10YR 3/2 FINE SANDY LOAM GRANULAR, FRIABLE 0.3"-40" 2.5Y 6/4 SANDY LOAM, MEDIUM, FRIABLE 40"-52" 2.5Y 6/3 VERY FINE SAND, (RESTRICTED) FIRM 52"-70" 2.5Y 6/4 LOAMY SAND MEDIUM, FRIABLE
6	09-02-20		2"	3.2' ROOTS	NONE ENC.	4.3'	0-2" 10YR 3/2 FINE SANDY LOAM GRANULAR, FRIABLE 0.2"-38" 2.5Y 6/3 SANDY LOAM SINGLE GRAIN, MEDIUM, FRIABLE 38"-51" 2.5Y 6/4 LOAMY SAND, MEDIUM FRIABLE
7	09-02-20		---	5.4' ROOTS	NONE ENC.	NONE ENC.	0-65" 2.5Y 6/4 FILL, SANDY LOAM SINGLE GRAIN, FRIABLE 65"-85" 2.5Y 5/3 LOAMY SAND, MEDIUM, FRIABLE
8	09-02-20		2.0'	NONE'	NONE ENC.	2.0'	0-24" 2.5Y 5/3 COARSE SAND, FRIABLE

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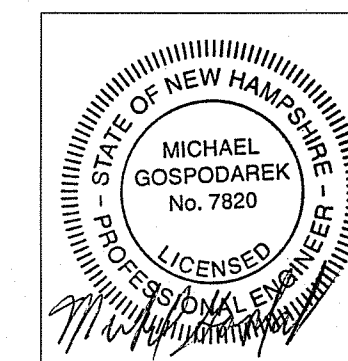
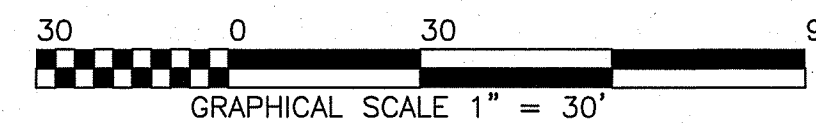
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TEST PIT DATA

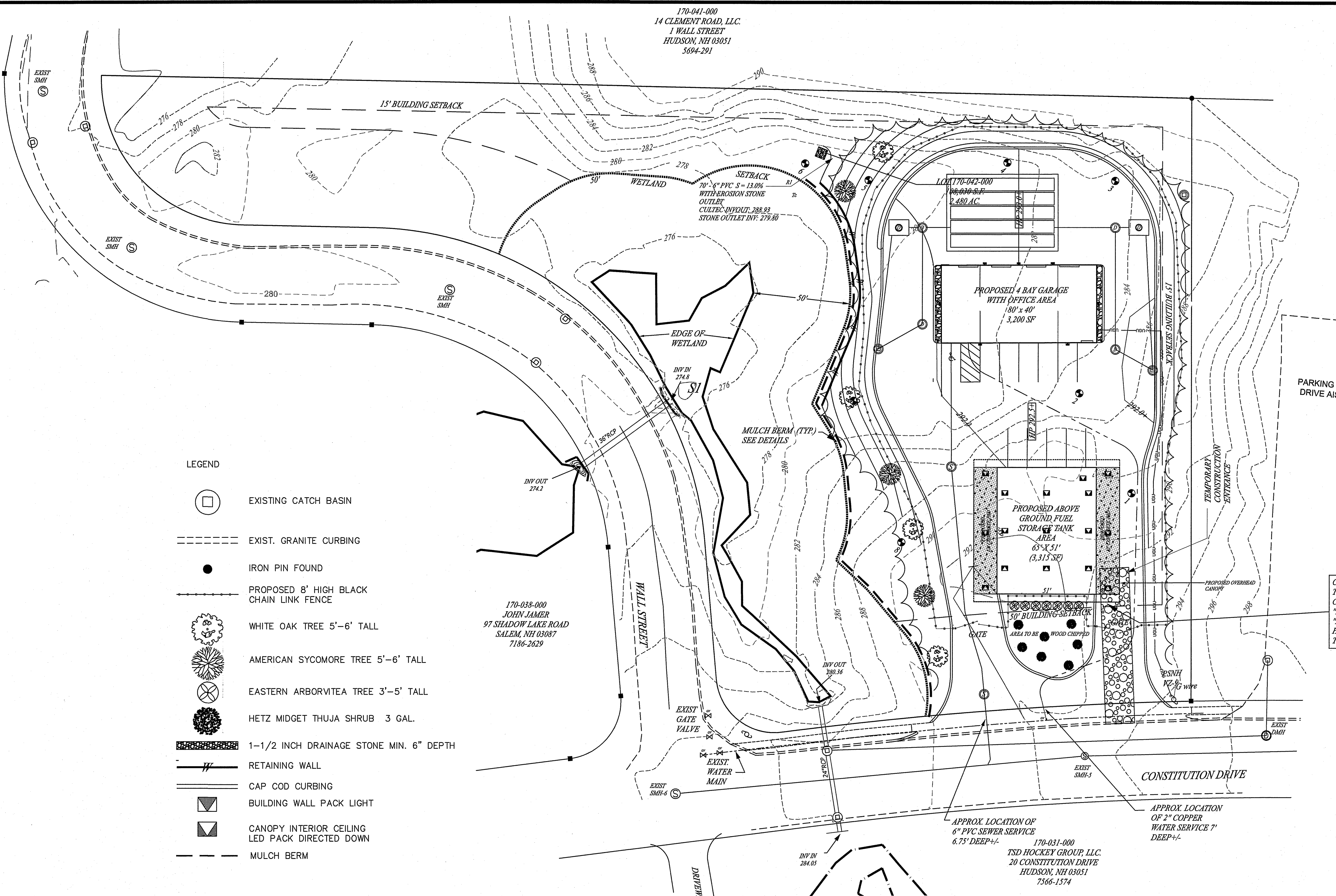
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MAP 170 / LOT 042-000
19 CONSTITUTION DRIVE
HUDSON, NH

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6 STARWOOD DRIVE
HAMPSTEAD, NH 03841

SCALE: 1" = 30' DATE: NOVEMBER, 2020

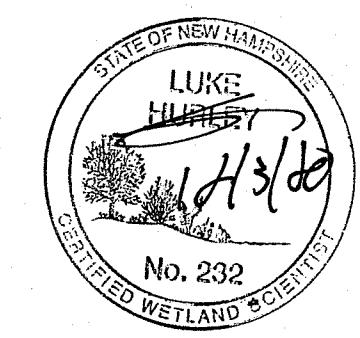
EDWARD N. HERBERT ASSOC., INC.
LAND SURVEYORS - CIVIL ENGINEERS
1 FROST ROAD WINDHAM, NH 03087 (603) 432-2462

170-041-000
14 CLEMENT ROAD, LLC.
1 WALL STREET
HUDSON, NH 03051
5894-291



- LEGEND**
- EXISTING CATCH BASIN
 - EXIST. GRANITE CURBING
 - IRON PIN FOUND
 - PROPOSED 8' HIGH BLACK CHAIN LINK FENCE
 - WHITE OAK TREE 5'-6' TALL
 - AMERICAN SYCOMORE TREE 5'-6' TALL
 - EASTERN ARBORVITEA TREE 3'-5' TALL
 - HETZ MIDGET THUJA SHRUB 3 GAL.
 - 1-1/2 INCH DRAINAGE STONE MIN. 6" DEPTH
 - RETAINING WALL
 - CAP COD CURBING
 - BUILDING WALL PACK LIGHT
 - CANOPY INTERIOR CEILING LED PACK DIRECTED DOWN
 - MULCH BERM

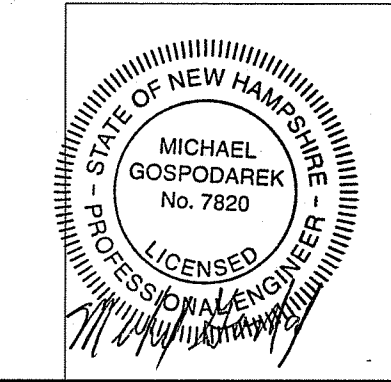
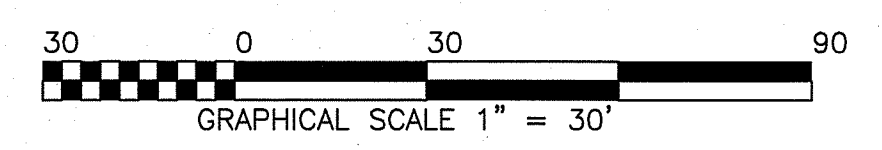
COMPANY SIGN TO BE PLACED ON CANOPY SIZE NOT TO EXCEED 20% OF CANOPY AREA. SIGN SHALL BE COLOR BLUE AND CENTERED WITH THE LETTERING "B & H OIL CO."
ALL SIGNS ARE SUBJECT TO APPROVAL BY THE HUDSON PLANNING BOARD PRIOR TO INSTALLATION THEREOF.



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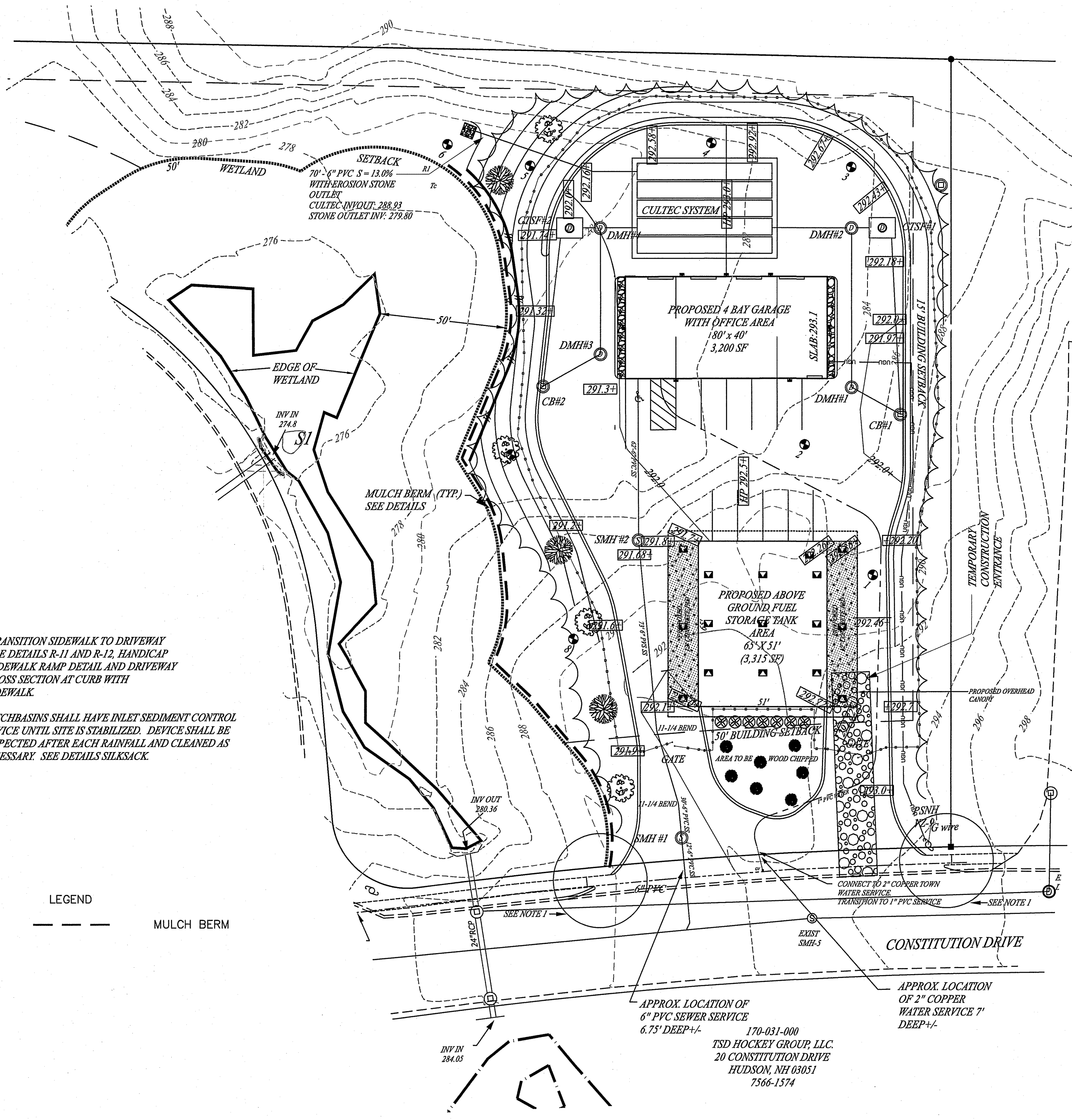
GENERAL SITE PLAN with LANDSCAPING & LIGHTING

SITE PLAN
MAP 170 / LOT 042-000
19 CONSTITUTION DRIVE
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6 STARWOOD DRIVE
HAMPSTEAD, NH 03841

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- NOTES:
- TRANSITION SIDEWALK TO DRIVEWAY SEE DETAILS R-11 AND R-12, HANDICAP SIDEWALK RAMP DETAIL AND DRIVEWAY CROSS SECTION AT CURB WITH SIDEWALK.
 - CATCHBASINS SHALL HAVE INLET SEDIMENT CONTROL DEVICE UNTIL SITE IS STABILIZED. DEVICE SHALL BE INSPECTED AFTER EACH RAINFALL AND CLEANED AS NECESSARY. SEE DETAILS SIKSMACK.

LEGEND
 --- MULCH BERM

STRUCTURE NAME	LOCATION STA.:	RIM ELEV	INVERT OUT	PIPE SIZE	PIPE LENGTH	SLOPE %	INVERT IN
CB #1	2+00	291.70	287.50	12"	18'	1.0	287.32 to DMH #1
CB #1	2+00	291.70	286.80	8"	67'	1.0	286.13 to CTSF #1
DMH #1	2+09	292.1	287.10	12"	59'	1.0	286.51 to DMH #2
CTSF #1	2+69	292.4	286.13	12"	5'	1.0	286.08 to DMH #2
DMH #2	2+75	290.90	286.0	12"	XX'	X.XX	XXX.XX to STRUCTURE
CB #2	4+50	290.90	286.80	12"	22'	1.0	286.58 to DMH #3
CB #2	4+50	290.90	286.10	8"	56'	1.0	285.54 to CTSF #2
DMH #3	4+35.6	291.1	286.4	12"	46'	1.0	285.94 to DMH #4
CTSF #2	3+89.7	291.8	285.54	12"	5'	1.0	285.49 to DMH #4
DMH #4	3+83.6	292.0	285.3	12"	XX'	X.XX	XXX.XX to STRUCTURE

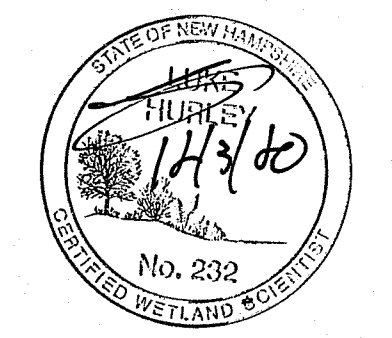
PROPOSED SANITARY SEWER SYSTEM

EXISTING SANITARY SEWER 6" PVC STUB ELE: 282.2 +/- ATTACH ELEVATION CHIMNEY TO BRING NEW 6" ELEV: TO 285.2
 CHIMNEY TO SMH #1 10'-6" PVC @2.0% CHIMNEY ELE: 285.2

SMH #1 STA: 6+35.25 RIM = 291.7
 6" PVC PASS THRU WITH 6" BACKWATER VALVE AND 6" CLEANOUT
 INV.IN: 285.3
 INV.OUT: 285.5

SMH #1 TO 11-1/4 DEGREE BEND STA. 6+21.7
 12' - 6" S = 2.0% BEND INV. = 285.78
 BEND @ STA. 6+21.7 TO 11-1/4 DEGREE BEND STA. 5+92.1
 30' - 6" PVC S = 2.0% BEND INV. = 286.38
 BEND @ STA. 5+92.1 TO SMH #2

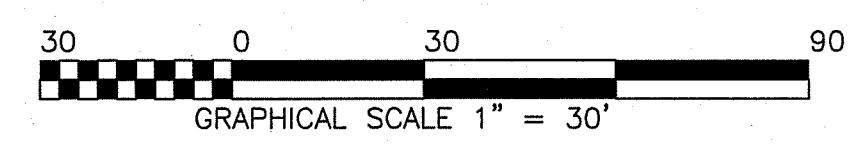
73' - 6" S = 2.0%
 SMH #2 STA. 5+15.75 RIM = 291.7
 INV.IN: 287.8
 INV.OUT: 287.9
 SMH#2 TO BUILDING
 62' - 6" PVC S = 2.0%
 6" UNDER SLAB ELE: 288.83 BUILDING SLAB 293.0



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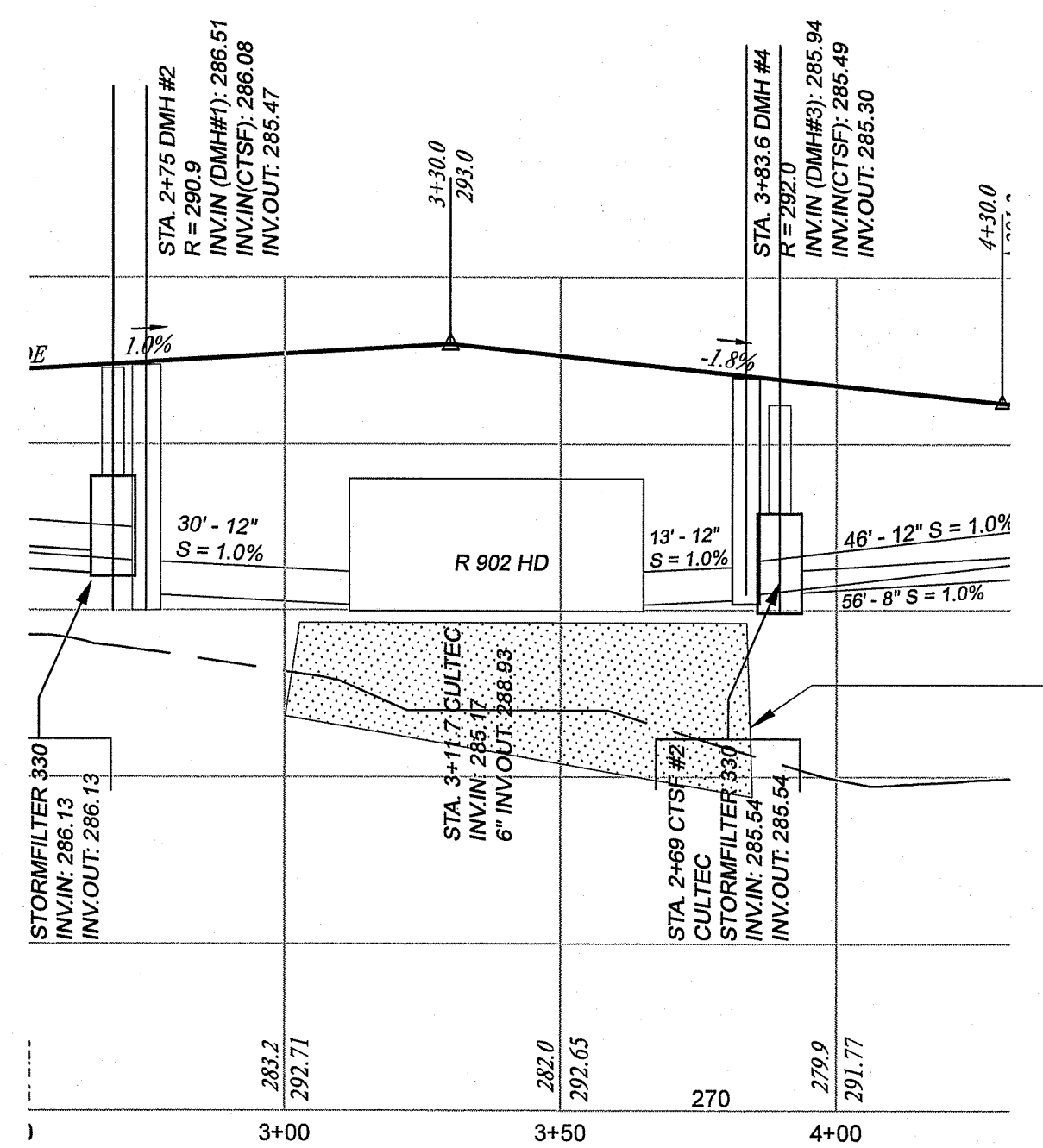
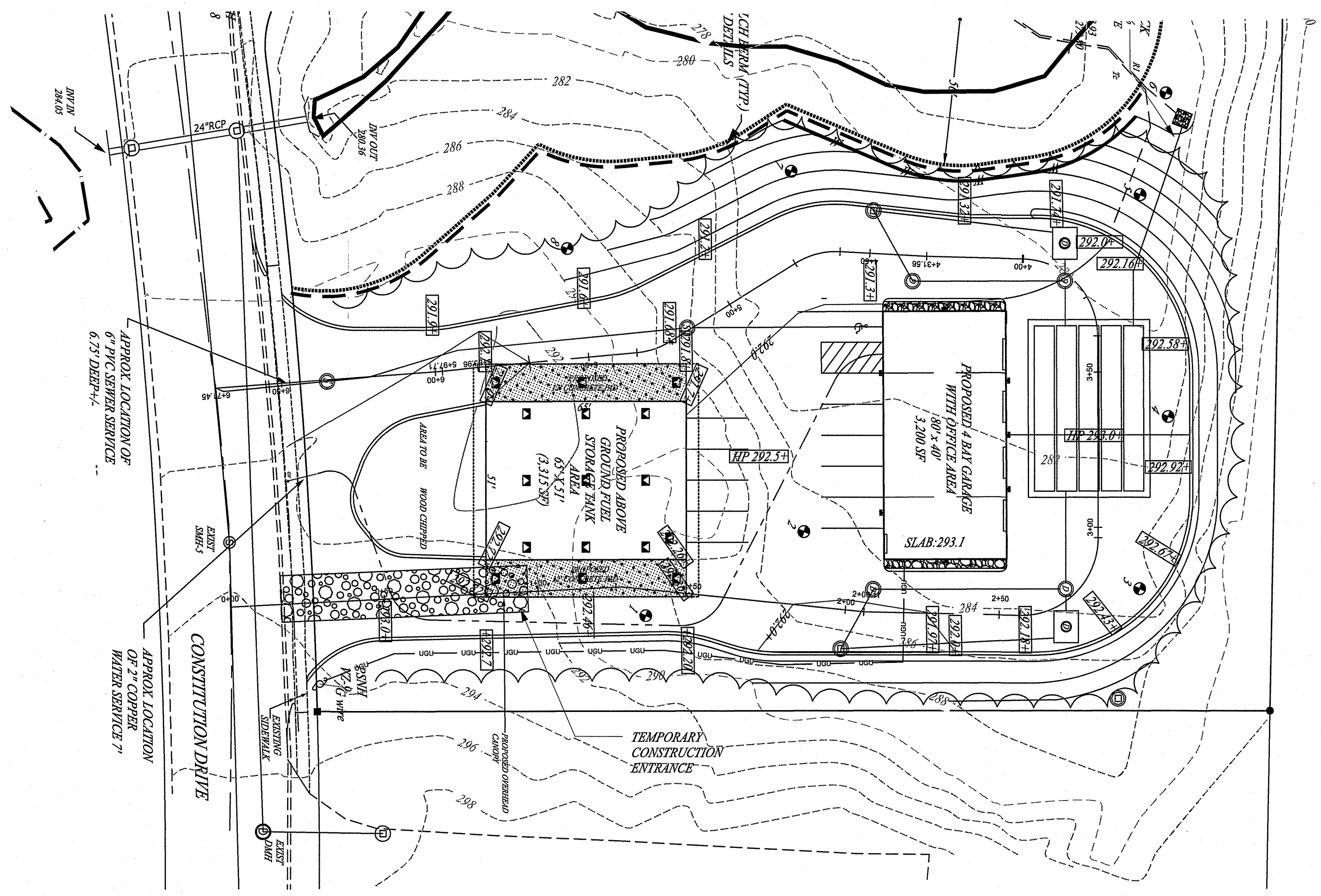
SITE PLAN

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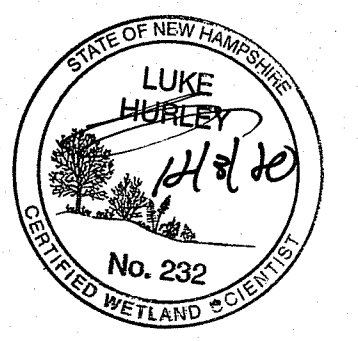
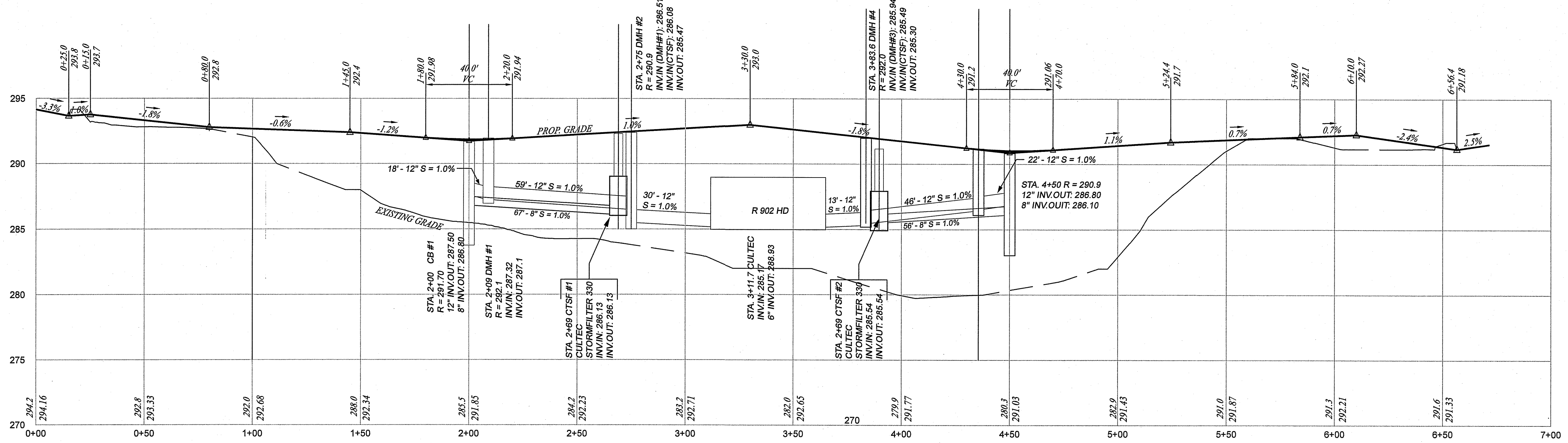
EDWARD N. HERBERT ASSOC., INC
 LAND SURVEYORS - CIVIL ENGINEERS
 1 FROST ROAD WINDHAM, NH 03087 (603) 452-2462



NOTES:
 A. CLEAN FILL SHALL HAVE A PERMEABILITY RATE OF 6"-9" PER HOUR. CONTRACTOR SHALL SUBMIT SOIL TESTING RESULTS FOR APPROVAL TO TOWN ENGINEER PRIOR TO FILLING. THE LABORATORY METHOD FOR DETERMINING THE DESIGN INFILTRATION RATE FOR PROPOSED FILL SOILS SHALL BE AS FOLLOWS: DETERMINE THE K_{SAT} OF THE PROPOSED FILL IN ACCORDANCE WITH TEST METHODS DESCRIBED IN ASTM D-5856, "STANDARD TEST METHOD FOR MEASUREMENT OF HYDRAULIC CONDUCTIVITY OF POROUS MATERIAL USING A RIGID-WALL, COMPACTION-MOLD PERMAMETER", JUNE 2015.
 B. REMOVE SOIL DOWN TO THE C HORIZON, CONTRACTOR SHALL WORK WITH GOVE ENVIRONMENTAL TO ENSURE EXCAVATION DEPTH IS ACHIEVED.

EXIST. GRADE

- AS NECESSARY, CLEAN FILL SEE NOTE "A"
- REMOVE SOIL, SEE NOTE "B"
- AREA TO BE TILLED, MIN. DEPTH - 12"



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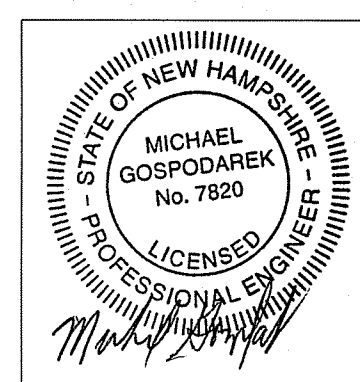
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NOTE:
 CONTRACTOR IS REQUIRED TO CALL DIGSAFE AND COORDINATE LOCATIONS OF EXISTING UTILITY SERVICES A MINIMUM OF 72 HOURS PRIOR TO STARTING ANY WORK ON SITE.



REVISIONS:

SITE PLAN
 MAP 170 / LOT 042-000
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 1 FROST ROAD WINDHAM, NH 03087 (603) 432-2462

EROSION CONTROL NOTES

- EROSION CONTROL PROCEDURES SHALL CONFORM TO SECTION 645 OF THE "STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION OF THE NHDOT". EROSION CONTROL SHALL BE INSTALLED DOWNHILL OF ALL AREAS WHERE WORK WILL EXPOSE UNPROTECTED SOIL TO PREVENT SEDIMENT FROM ENTERING CATCH BASINS, DRAINAGE STRUCTURES AND/OR DRAINAGE WAYS.
- DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. THE SMALLEST PRACTICAL AREA OF LAND SHOULD BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. IF AREAS ARE TO BE LEFT EXPOSED LONGER THAN 15 DAYS THEN THESE AREAS SHALL BE MULCHED AND SEEDED. IN ALL CASES THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME. LAND SHALL NOT BE LEFT EXPOSED DURING THE WINTER MONTHS.
- MULCH BERM AND SILTATION FENCING SHALL BE INSTALLED WHERE SHOWN, OR AS DIRECTED BY THE TOWN, PRIOR TO ANY ON-SITE GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL. EROSION CONTROL MEASURES SHALL BE MAINTAINED DURING DEVELOPMENT AND SHALL BE CHECKED PERIODICALLY AND EXCESS SILT SHALL BE REMOVED.
- ALL DISTURBED AREAS AND SIDE SLOPES WHICH ARE FINISH GRADED SHALL BE LOAMED (2" COMPACTED MINIMUM) AND SEEDED. SEE SEEDING AND FERTILIZER SPECIFICATION.
- ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER SHALL BE MACHINED HAY MULCHED AND SEEDED WITH SLOPE STABILIZATION SEED MIXTURE TO PREVENT EROSION HAY OR STRAW MULCH SHALL BE APPLIED AT A RATE OF 2 TONS/ACRE.
- ALL DITCHES, SWALES, AND PONDS SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- CONTRACTOR SHALL REDUCE AIR BORNE PARTICLES THROUGH THE USE OF WATER, CALCIUM CHLORIDE (OR EQUIVALENT) AND STREET SWEEPING.
- ALL EROSION CONTROL SHALL BE INSPECTED WEEKLY AND AFTER EVERY 0.5" OF RAINFALL.
- CONTRACTOR SHALL LIMIT THE AREA OF DISTURBANCE TO LESS THAN 5 ACRES OPEN AT ANY ONE TIME.
- ALL ROADWAYS, CUT AND FILL SLOPES SHALL BE STABILIZED AND/OR SEEDED/LOAMED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.
- AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED: BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED, A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED, A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED, OR EROSION CONTROL BALNKETS HAVE BEEN PROPERLY INSTALLED.

SEQUENCE OF MAJOR ACTIVITIES

- Install temporary erosion control silt barriers, construct stabilized entrances.
- Clear & grub site.
- Excavation for cuts and fills, swales and detention areas; All basins and swales shall be installed prior to rough grading the site.
- Install drainage and utilities.
- Place select gravels, fine grade and pave, loam and seed.
- When all construction activity is complete and site is stabilized, remove all silt barriers and sediment that has been trapped by these devices.

INSTALLATION, MAINTENANCE AND INSPECTION PROCEDURES OF EROSION AND SEDIMENT CONTROLS

A. GENERAL

These are the general inspection and maintenance practices that will be used to implement the plan.

- The smallest practical portion of the site will be denuded at one time.
- All control measures will be inspected at least once each week and following any storm event of 1/2 inch or greater.
- All measures will be maintained in good working order; if a repair is necessary, it will be initiated within 24 hours of report.
- Built up sediment will be removed from silt fence or siltsock barriers when it has reached one third the height of the fence or bale.
- All diversion dikes will be inspected and any breaches promptly repaired.
- Temporary seeding and planting will be inspected for bare spots, washouts, and unhealthy growth.

B. Sequence of Installation

Sediment barriers shall be installed prior to any soil disturbance of the contributing drainage area above them.

C. Maintenance

- Inlet Protection and silt fence barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. They shall be repaired if there are any signs of erosion or sedimentation below them. Any required repairs shall be made immediately. If there are signs of undercutting at the center or the edges, or impounding of large volumes of water behind them, sediment barriers shall be replaced with a temporary check dam.
- Should the fabric on a silt fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier still is necessary, the fabric shall be replaced promptly.
- Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one third (1/3) the height of the barrier.
- Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.

D. TEMPORARY GRASS COVER

- Seedbed Preparation**
Apply fertilizer at the rate of 600 pounds per acre of 10-10-10. Apply limestone (equivalent to 50 percent calcium plus magnesium oxide) at a rate of three (3) tons per acre.
- Seeding**
 - Utilize annual rye grass at a rate of 40 lbs./acre.
 - Where the soil has been compacted by construction operations, loosen soil to a depth of two (2) inches before applying fertilizer, lime and seed.
 - Apply seed uniformly by hand, cyclone seeder, or hydroseder (slurry including seed and fertilizer). Hydrosedings, which include mulch, may be left on soil surface. Seeding rates must be increased 10% when hydrosedding.
- Maintenance**
Temporary seedings shall be periodically inspected. At a minimum, 95% of the soil surface should be covered by vegetation. If any evidence of erosion or sedimentation is apparent, repairs shall be made and other temporary measures used in the interim (mulch, filter barriers, check dams, etc.).

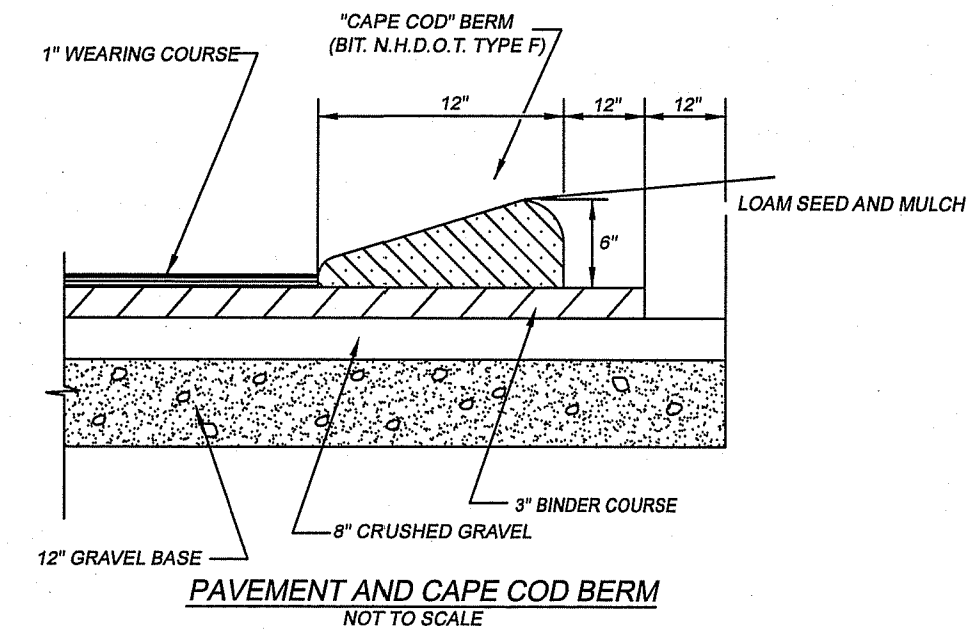
E. PERMANENT SEEDING

- Bedding - stones larger than 1 1/2", trash, roots, and other debris interfere with seeding and future maintenance of the area should be removed. Where feasible, the soil should be tilled to a depth of 4" to prepare a seedbed and mix fertilizer into the soil.
- Fertilizer - lime and fertilizer should be applied evenly over the area 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 @ 100 lbs. per 1,000 s.f.
10-20-20 fertilizer @ 12 lbs. per 1,000 s.f.

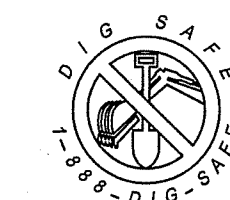
3. Seed Mixture (recommended)

Type	LBS. per Acre	LBS. per 1,000 s.f.
Tall Fescue	20	0.45
Creeping Red Fescue	20	0.45
Birdsfoot Trefoil	8	0.20
Total	48	1.10

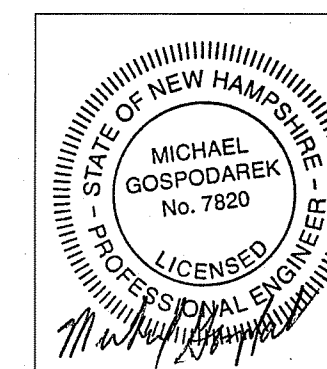
- Sodding - sodding is done where it is desirable to rapidly establish cover on a disturbed area. Sodding an area may be substituted for permanent seeding procedures anywhere on site. Sod preparation, fertilizing, and placement of sod shall be performed according to the S.C.S. Handbook. Sodding is recommended for steep sloped areas, areas immediately adjacent to sensitive water courses, easily erodible soils (fine sand/silt) etc.
- Provide a minimum of 4 inches (5 inches loose) of topsoil to all areas to be seeded.
- When seeded areas are mulched, seeding may be made from early spring to early October.
- When seeded areas are not mulched, seeding should be made from early spring to May 20th or August 10 to September 30.



NOTE:
CONTRACTOR IS REQUIRED TO CALL DIGSAFE AND COORDINATE LOCATIONS OF EXISTING UTILITY SERVICES A MINIMUM OF 72 HOURS PRIOR TO STARTING ANY WORK ON SITE.



CALL BEFORE YOU DIG!



APPROVED BY THE HUDSON PLANNING BOARD

DATE OF MEETING: _____

PLANNING BOARD CHAIRMAN _____ SIGNATURE DATE _____

SECRETARY _____ SIGNATURE DATE _____

SITE PLANS ARE VALID FOR ONE YEAR FROM THE DATE OF PLANNING BOARD MEETING FINAL APPROVAL. FINAL APPROVAL COMMENCES AT THE PLANNING BOARD MEETING DATE AT WHICH THE PLAN RECEIVES FINAL APPROVAL.

PURSUANT TO THE SITE REVIEW REGULATIONS OF THE HUDSON PLANNING BOARD, THE SITE PLAN APPROVAL GRANTED HEREIN EXPIRES ONE YEAR FROM DATE OF APPROVAL.

REVISIONS:

SITE PLAN
MAP 170 / LOT 042-000
19 CONSTITUTION DRIVE
HUDSON, NH

PREPARED FOR:
B & H OIL COMPANY, INC.
6 STARWOOD DRIVE
HAMPSTEAD, NH 03841

SCALE: 1" = _____ DATE: NOVEMBER, 2020

EDWARD N. HERBERT ASSOC., INC.
LAND SURVEYORS - CIVIL ENGINEERS
1 FROST ROAD WINDHAM, NH 03087 (603) 432-2462

TEMPORARY CONSTRUCTION ENTRANCE/EXIT

A. GENERAL NOTES:

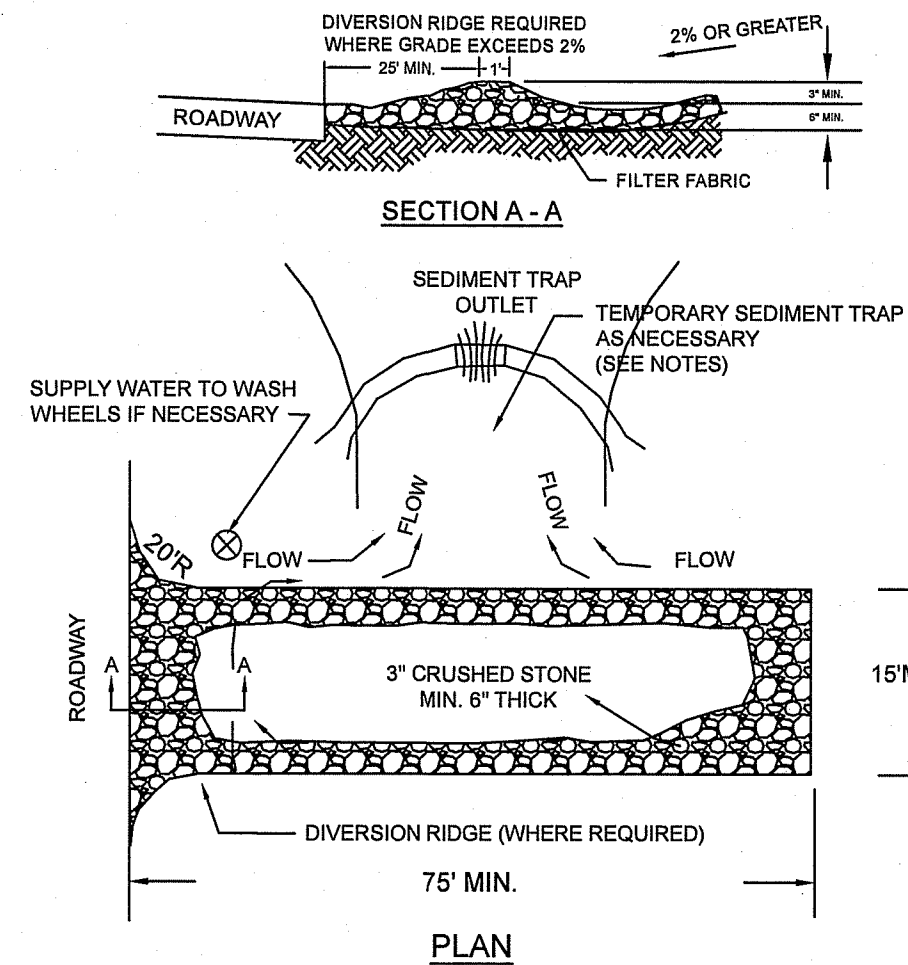
1. A STABILIZED CONSTRUCTION ENTRANCE/EXIT CONSISTS OF A PAD OF STONE AGGREGATE PLACED ON A GEOTEXTILE FILTER FABRIC, LOCATED AT ANY POINT WHERE TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE TO AN EXISTING ACCESS ROAD WAY OR OTHER PAVED SURFACE. ITS PURPOSE IS TO REDUCE OR ELIMINATE THE TRACKING OF SEDIMENT ONTO PUBLIC ROADS BY CONSTRUCTION VEHICLES. THIS HELPS PROTECT RECEIVING WATERS FROM SEDIMENT CARRIED BY STORM WATER RUNOFF FROM ROADS.
2. ONLY CONSTRUCTION TRAFFIC LEAVING THE SITE IS REQUIRED TO USE THE TEMPORARY STABILIZED EXIT. CONSIDER PROVIDING A SEPARATE, UNPROTECTED ENTRANCE FOR TRAFFIC ENTERING THE SITE. THIS WILL INCREASE THE LONGEVITY OF THE STABILIZED EXIT BY ELIMINATING HEAVY LOADS ENTERING THE SITE AND REDUCING THE TOTAL TRAFFIC OVER THE DEVICE.
3. LOCATE THE CONSTRUCTION ENTRANCES AND EXITS, A MINIMUM OF 100 FEET FROM INTERSECTIONS, TO LIMIT SEDIMENT LEAVING THE SITE AND TO PROVIDE FOR MAXIMUM UTILITY BY ALL CONSTRUCTION VEHICLES. AVOID ENTRANCES THAT HAVE STEEP GRADES AND ENTRANCES AT CURVES IN ROADS.
4. THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR MAINTENANCE OF ANY MEASURES USED TO TRAP SEDIMENT.

B. SPECIFICATIONS (TEMPORARY CONSTRUCTION ENTRANCE/EXITS SHOULD MEET THE FOLLOWING REQUIREMENTS).

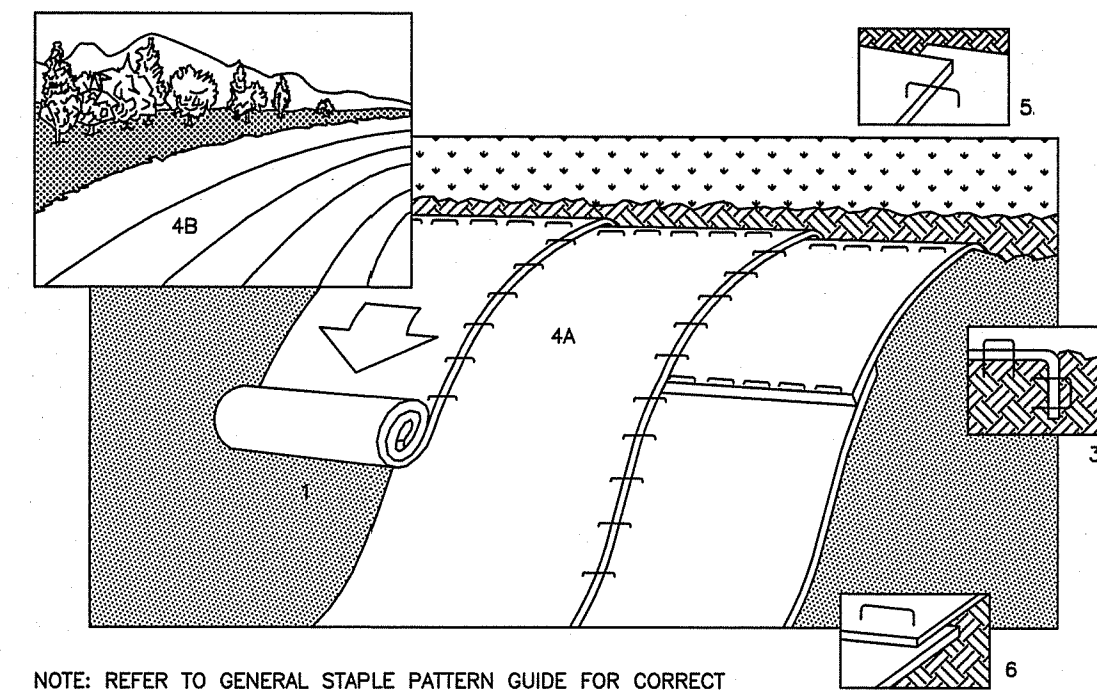
1. STONE SIZE MINIMUM: USE SHOULD BE 3" CRUSHED STONE.
2. THE MINIMUM LENGTH OF THE PAD SHOULD BE 75 FEET.
3. THE MINIMUM WIDTH OF THE PAD SHOULD BE 15 FEET.
4. THE PAD SHOULD SLOPE AWAY FROM THE EXISTING ROADWAY.
5. THE PAD SHOULD BE AT LEAST 6" THICK.
6. A GEOTEXTILE FILTER FABRIC SHOULD BE PLACED BETWEEN THE STONE PAD AND THE EARTH SURFACE BELOW THE PAD.
7. THE PAD SHOULD BE MAINTAINED OR REPLACED WHEN MUD AND SOIL PARTICLES CLOG THE VOIDS IN THE STONE SUCH THAT MUD AND SOIL PARTICLES ARE TRACKED OFF-SITE.
8. NATURAL DRAINAGE THAT CROSSES THE LOCATION OF THE STONE PAD SHOULD BE INTERCEPTED AND PIPED BENEATH THE PAD, AS NECESSARY, WITH SUITABLE OUTLET PROTECTION.

C. MAINTENANCE REQUIREMENTS (THE ENTRANCE/EXIT SHOULD BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT).

1. WHEN THE CONTROL PAD BECOMES INEFFECTIVE, THE STONE SHOULD BE REMOVED ALONG WITH THE COLLECTED SOIL MATERIAL, REGRADED ON SITE, AND STABILIZED. THE ENTRANCE SHOULD THEN BE RECONSTRUCTED.
2. THE CONTRACTOR SHOULD SWEEP THE PAVEMENT AT EXITS WHENEVER SOIL MATERIALS ARE TRACKED ONTO THE ADJACENT PAVEMENT OR TRAVELED WAY.
3. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WHEEL WASHING IS REQUIRED, IT SHOULD BE CONDUCTED ON AN AREA STABILIZED WITH AGGREGATE, WHICH DRAINS INTO AN APPROVED SEDIMENT-TRAPPING DEVICE. ALL SEDIMENT SHOULD BE PREVENTED FROM ENTERING STORM DRAINS, DITCHES OR WATERWAYS.



TEMPORARY CONSTRUCTION ENTRANCE/EXIT



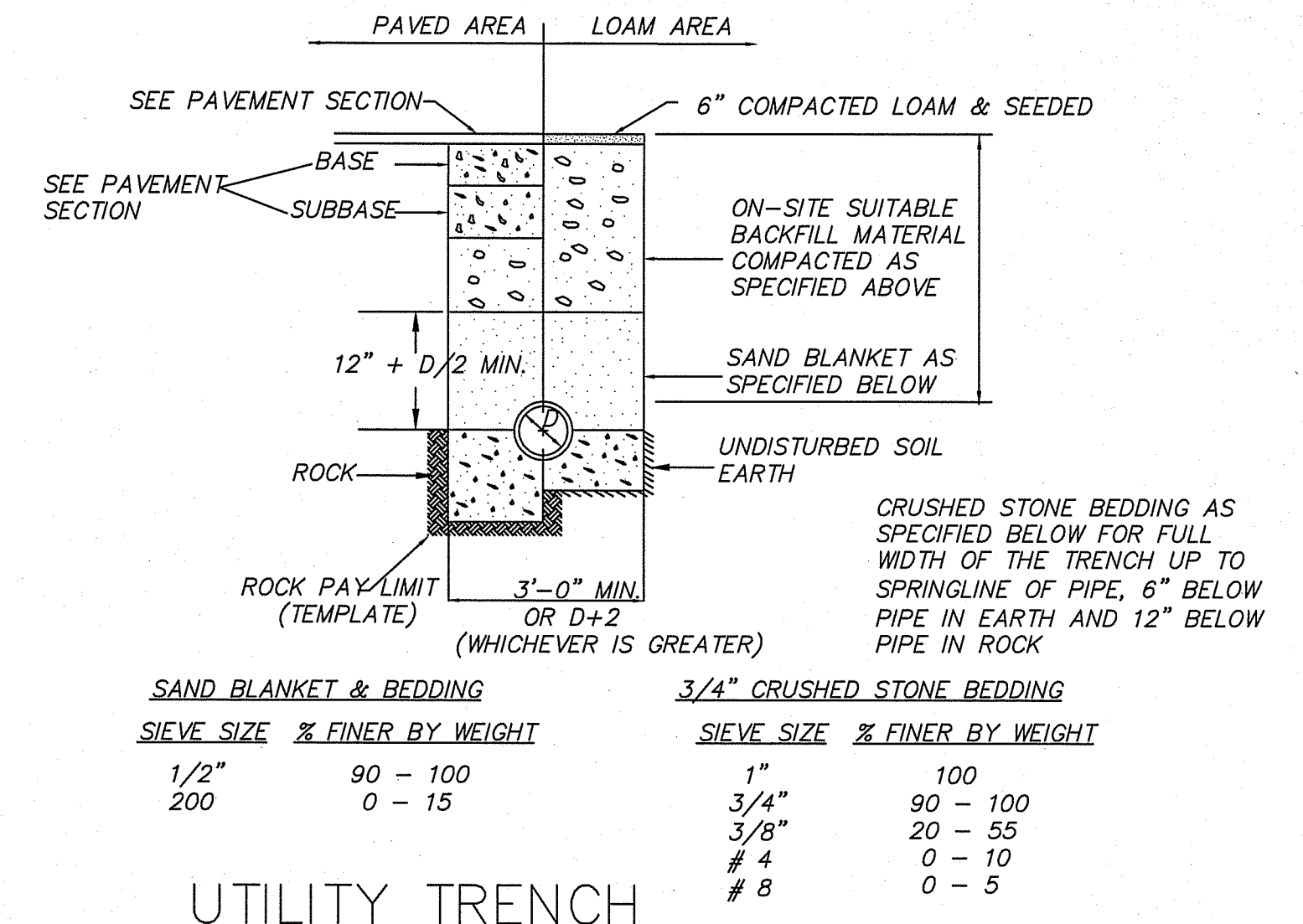
NOTE: REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

1. TO BE PLACED ON ALL DETENTION POND SIDE SLOPES, POND BOTTOM, AND ALL SIDE SLOPES 3:1 OR GREATER.
2. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARE AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
3. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
4. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE, WITH THE DIRECTION OF FLOW.
5. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
6. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
7. NORTH AMERICAN GREEN SC150 1-800-772-2040.

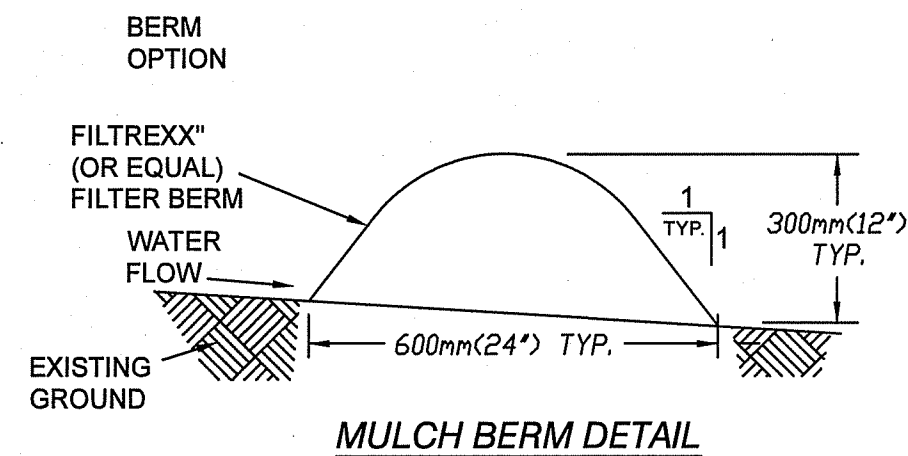
SLOPE INSTALLATION

EROSION CONTROL BLANKETS

NOT TO SCALE

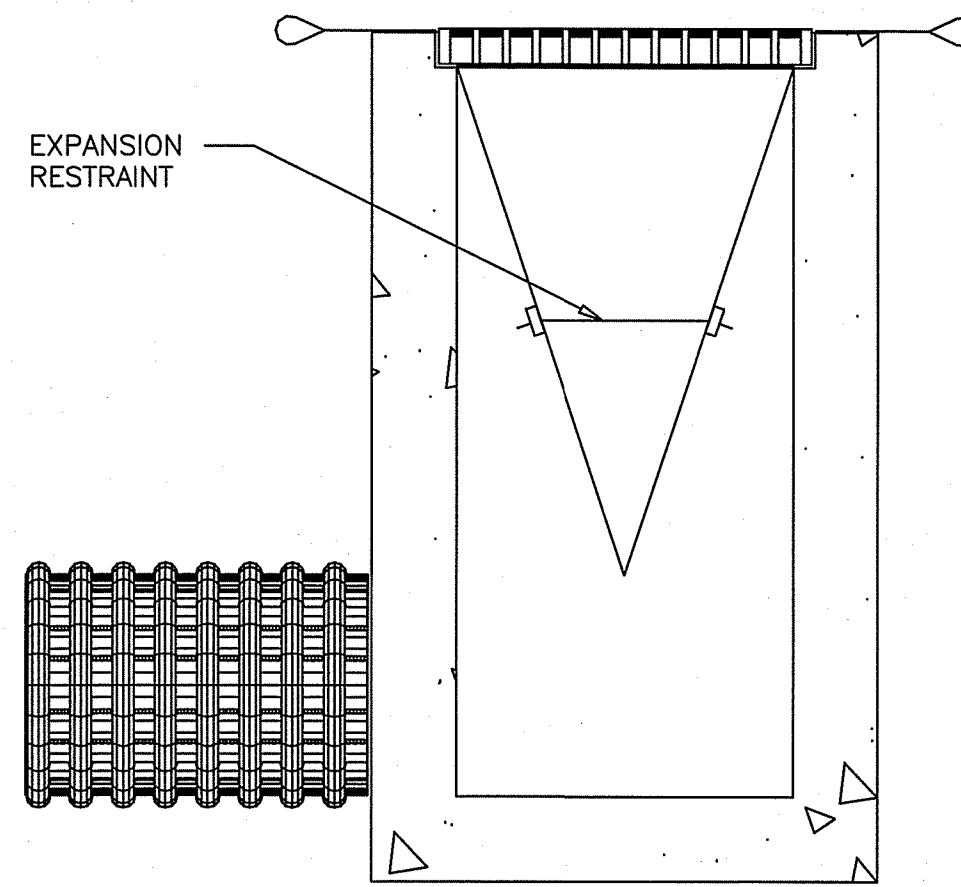


SAND BLANKET & BEDDING		3/4" CRUSHED STONE BEDDING	
SIEVE SIZE	% FINER BY WEIGHT	SIEVE SIZE	% FINER BY WEIGHT
1/2"	90 - 100	1"	100
200	0 - 15	3/4"	90 - 100
		3/8"	20 - 55
		# 4	0 - 10
		# 8	0 - 5



NOTES:

1. CONTRACTOR SHALL DISCUSS THE APPLICATION OF THIS PRODUCT WITH MANUFACTURE TO ENSURE PROPER PRODUCT SPECIFICATIONS.
2. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS OR EQUAL.
3. THE CONTRACTOR SHALL MAINTAIN THE COMPOST FILTER BERM IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
4. WHERE THE BERM REQUIRES REPAIR, IT WILL BE ROUTINELY REPAIRED.
5. THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE OF THE BERM WHEN THEY REACH 1/3 OF THE EXPOSED HEIGHT OF THE BERM, OR AS DIRECTED BY THE ENGINEER.
6. THE COMPOST FILTER BERM WILL BE DISPERSED ON SITE WHEN NO LONGER REQUIRED, AS DETERMINED BY THE ENGINEER.



INSTALLATION DETAIL
DETAIL OF INLET SEDIMENT CONTROL DEVICE
NOT TO SCALE

SILTSACK®
SPECIFICATIONS

NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS, AS SUPPLIED BY AH HARRIS OF PORTSMOUTH OR APPROVED EQUAL.

REGULAR FLOW SILTSACK®
(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC-1

HI-FLOW SILTSACK®
(FOR AREAS OF MODERATE TO HEAVY PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90 %
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC-1

OIL-ABSORBANT SILTSACK®
(FOR AREAS WHERE THERE IS A CONCERN FOR OIL RUN-OFF OR SPILLS)

DEPENDING ON YOUR PARTICULAR APPLICATION, THE SILTSACK® CAN BE MADE FROM EITHER ONE OF THE ABOVE FABRICS WITH AN OIL-ABSORBANT PILLOW INSERT OR, MADE COMPLETELY FROM AN OIL-ABSORBANT SILTSACK®, WITH A WOVEN PILLOW INSERT.

APPROVED BY THE HUDSON PLANNING BOARD

DATE OF MEETING: _____

SIGNATURE DATE _____
PLANNING BOARD CHAIRMAN

SIGNATURE DATE _____
SECRETARY

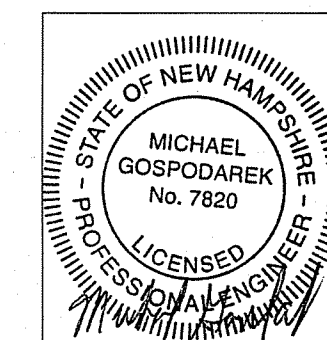
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CALL BEFORE YOU DIG!



REVISIONS:

SITE PLAN
MAP 170 / LOT 042-000
19 CONSTITUTION DRIVE
HUDSON, NH

PREPARED FOR:
B & H OIL COMPANY, INC.
6 STARWOOD DRIVE
HAMPSTEAD, NH 03841

SCALE: 1" =

DATE: NOVEMBER, 2020

EDWARD N. HERBERT ASSOC., INC
LAND SURVEYORS - CIVIL ENGINEERS
1 FROST ROAD WINDHAM, NH 03087 (603) 432-2462

NOTES

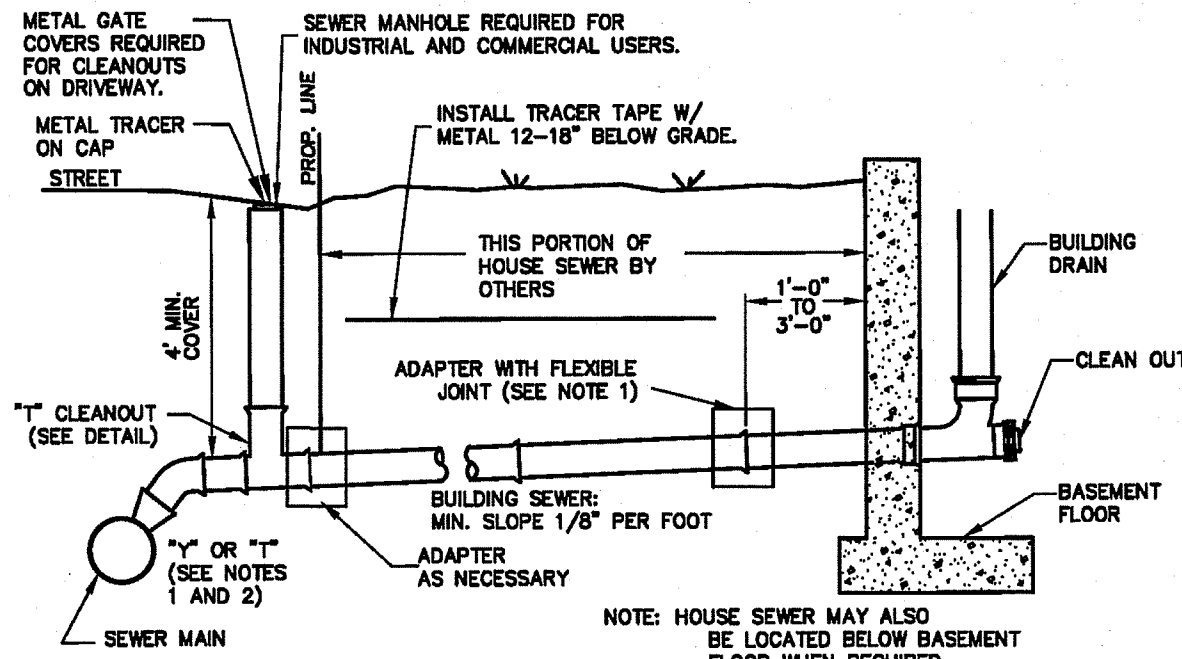
- ALL MANHOLES, INCLUDING ALL COMPONENT PARTS, SHALL HAVE ADEQUATE SPACE, STRENGTH AND LEAKPROOF QUALITIES CONSIDERED NECESSARY BY THE ENGINEER FOR THE INTENDED SERVICE. SPACE REQUIREMENTS AND CONFIGURATIONS, SHALL BE AS SHOWN ON THE DRAWING. MANHOLES MAY BE AN ASSEMBLY OF PRECAST SECTIONS, WITH OR WITHOUT STEEL REINFORCEMENT, WITH ADEQUATE JOINTING, OR CONCRETE CAST MONOLITHICALLY IN PLACE WITH OR WITHOUT REINFORCEMENT. IN ANY APPROVED MANHOLE, THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND (H-20 LOADING) WITHOUT FAILURE AND PREVENT LEAKAGE IN EXCESS OF ONE GALLON PER DAY PER VERTICAL FOOT OF MANHOLE, CONTINUOUSLY FOR THE LIFE OF THE STRUCTURE. A PERIOD GENERALLY IN EXCESS OF 25 YEARS IS TO BE UNDERSTOOD IN BOTH CASES.
- BARRELS AND CONE SECTIONS SHALL BE PRECAST REINFORCED OR NON-REINFORCED CONCRETE, OR FOUNDED IN PLACE REINFORCED OR NON-REINFORCED CONCRETE.
- PRECAST CONCRETE BARREL SECTIONS, CONES AND BASES SHALL CONFORM TO ASTM C 478.
- LEAKAGE TEST SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS (5 POUNDS FOR 5 MINS., NO DROP BELOW 4 POUNDS).
- INVERTS AND SHELVES MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF THE 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 SLOPE TO DRAIN TOWARD THE FLOW THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY. INVERTS AND SHELVES SHALL BE PLACED AFTER TESTING.
- FRAMES AND COVERS MANHOLE FRAMES AND COVERS SHALL PROVIDE A 30 INCH CLEAR OPENING. A 3 INCH (MINIMUM HEIGHT) LETTER "S" OR THE WORD "SEWER" SHALL BE CAST INTO THE TOP SURFACE. CASTINGS SHALL BE EVEN-GRAINED CAST IRON AND SHALL BE EQUAL TO CLASS 30, CONFORMING TO ASTM A 48.
- BEDDING SCREENED GRAVEL AND/OR CRUSHED STONE FREE FROM CLAY, LOAM, ORGANIC MATTER AND MEETING ASTM C 33
 100 PASSING 1 INCH SCREEN
 90-100 PASSING 3/4 INCH SCREEN
 20-55 PASSING 3/8 INCH SCREEN
 0-10 PASSING #4 SIEVE
 0-5 PASSING #6 SIEVE
 WHERE ORDERED BY THE ENGINEER TO STABILIZE THE BASE, SCREENED GRAVEL OR CRUSHED STONE 1/2 TO 1-1/2 INCH SHALL BE USED.
- FLEXIBLE JOINT A FLEXIBLE JOINT SHALL BE PROVIDED WITHIN THE FOLLOWING DISTANCES:
 RCP & CI PIPE (ALL SIZES): 48"
 AC & VC PIPE (UP THROUGH 12" DIA.): 18"
 AC & VC PIPE (LARGER THAN 12" DIA.): 36"
- SHALLOW MANHOLE IN LIEU OF A CONE SECTION, WHEN MANHOLE DEPTH IS LESS THAN 6 FEET, A REINFORCED CONCRETE SLAB COVER MAY BE USED. IT MUST HAVE AN ECCENTRIC ENTRANCE OPENING AND BE CAPABLE OF SUPPORTING H-20 LOADS.
- DI PIPE - NONE REQUIRED
 PVC (ASTM 3034) - UP THROUGH 15" DIA - NONE REQUIRED
 PVC (ASTM F 679) - LARGER THAN 15" DIA - 45" - 60"
 PVC (ASTM F 789) - ALL SIZES - 48" - 60"
 ABS (ASTM D 2880) - ALL SIZES - SAME AS PVC ABOVE
- UNDER SEVERE CONDITIONS WHEN DIFFERENTIAL SETTING CANNOT BE CONTROLLED WITHIN NORMAL LIMITS, VARIATIONS IN THE STUB LENGTH MAY BE NECESSARY OTHER PLASTIC PIPES SHALL BE REVIEWED ON A CASE BY CASE BASIS.
- MANHOLE STEPS ARE NOT PERMITTED.
- MAXIMUM DISTANCE BETWEEN SEWER MANHOLES SHALL BE 300 FEET.
- SEWER MANHOLE SHALL BE REQUIRED FOR ALL (EXISTING AND NEW) INDUSTRIAL AND COMMERCIAL USERS AND WILL BE LOCATED AT ROW/PROPERTY LINE.

NOTE: SEPARATE CONSTRUCTION SPECIFICATIONS MUST BE ATTACHED OR INCLUDED IN THE CONTRACT DOCUMENTS. THESE STANDARD DRAWINGS ARE NOT COMPLETE WITHOUT THESE SPECIFICATIONS.



STANDARD MANHOLE - PART A

DETAIL S-2
 STANDARD MANHOLE - PART A
 TOWN OF HUDSON AUGUST-01
 REV: 8/23/19 SCALE: NTS



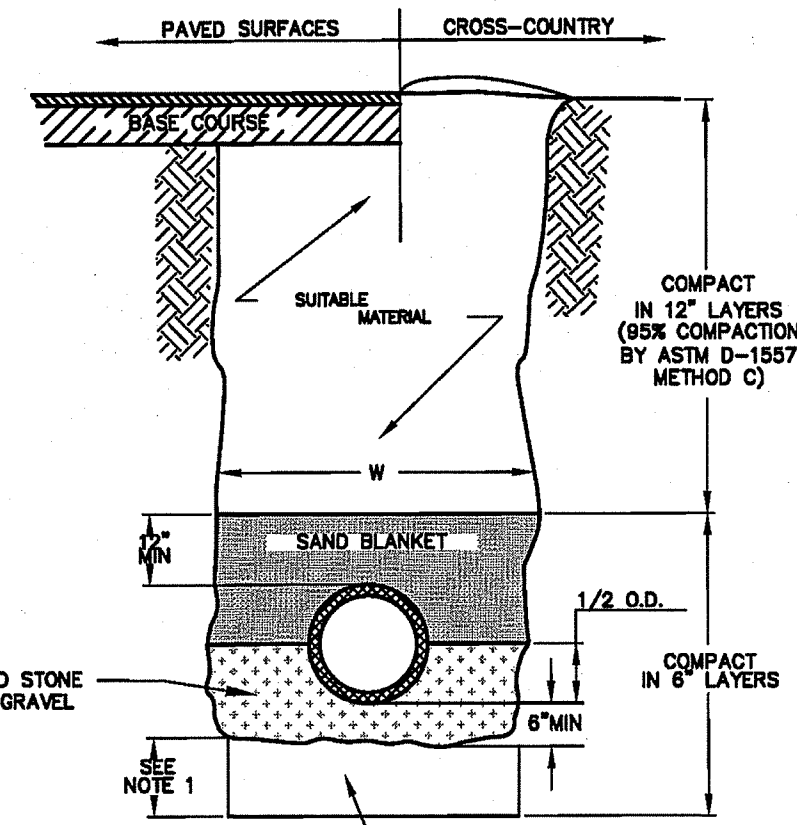
- JOINTS SHALL BE DEPENDENT UPON A NEOPRENE OR ELASTOMERIC GASKET FOR WATERTIGHTNESS. ALL JOINTS SHALL BE PROPERLY MATCHED WITH THE PIPE MATERIALS USED. WHERE DIFFERING MATERIALS ARE TO BE CONNECTED, AS AT THE STREET SEWER "Y" OR AT THE FOUNDATION WALL, APPROPRIATE ADAPTERS SHALL BE USED.
- WHERE A "T" OR "Y" IS NOT AVAILABLE IN THE EXISTING STREET SEWER, AN APPROPRIATE CONNECTION SHALL BE MADE IN ACCORDANCE WITH THE TOWN ENGINEER.
- PIPE SHALL BE 6" DIAMETER MINIMUM FROM SEWER MAIN TO EASEMENT (Ø R) AND 4" DIAMETER MINIMUM FROM CLEANOUT TO BUILDING FOUNDATION.

BUILDING SERVICE CONNECTION

NOT TO SCALE



DETAIL S-5
 BUILDING SERVICE CONNECTION
 TOWN OF HUDSON AUGUST-01
 REV: 8/23/19 SCALE: NTS

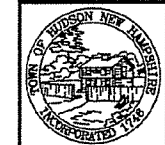


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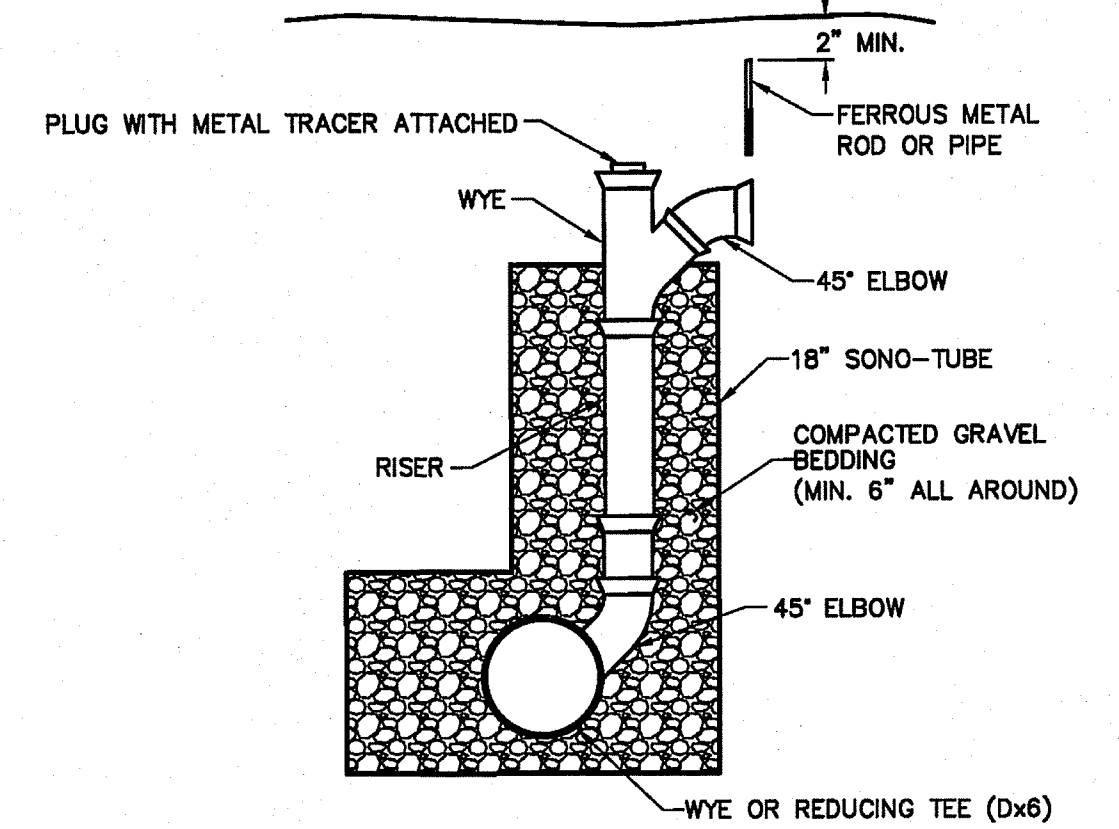
- ORDERED EXCAVATION OF UNSUITABLE MATERIAL BELOW GRADE, REFILL WITH BEDDING MATERIAL.

SEWER TRENCH SECTION

NOT TO SCALE



DETAIL S-4
 SEWER TRENCH SECTION
 TOWN OF HUDSON AUGUST-01
 REV: SCALE: NTS



CHIMNEY

NOT TO SCALE



TOWN OF HUDSON
 12 SCHOOL STREET
 HUDSON, NH 03051
 DETAIL S-7
 CHIMNEY
 TOWN OF HUDSON AUGUST-01
 REV: SCALE: NTS

APPROVED BY THE HUDSON PLANNING BOARD

DATE OF MEETING: _____

 SIGNATURE DATE _____
 PLANNING BOARD CHAIRMAN

 SIGNATURE DATE _____
 SECRETARY

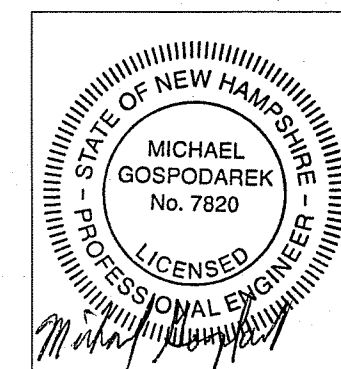
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CALL BEFORE YOU DIG!



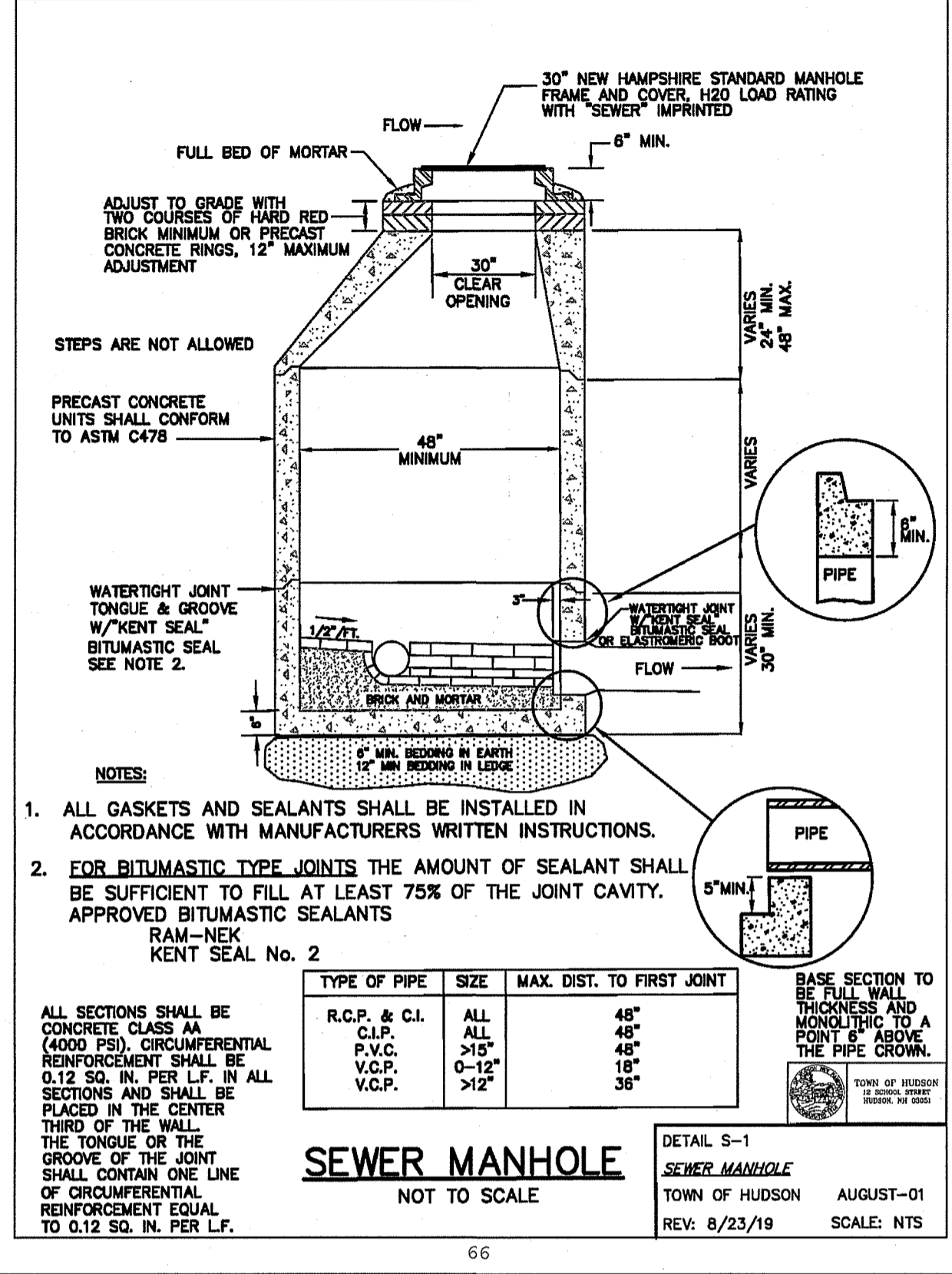
REVISIONS:

SITE PLAN
 MAP 170 / LOT 042-000
 19 CONSTITUTION DRIVE
 HUDSON, NH

PREPARED FOR:
 B & H OIL COMPANY, INC.
 6 STARWOOD DRIVE
 HAMPSTEAD, NH 03841

SCALE: 1" = _____ DATE: NOVEMBER, 2020

EDWARD N. HERBERT ASSOC., INC
 LAND SURVEYORS - CIVIL ENGINEERS
 1 FROST ROAD WINDHAM, NH 03087 (603) 432-2462



NOTES:

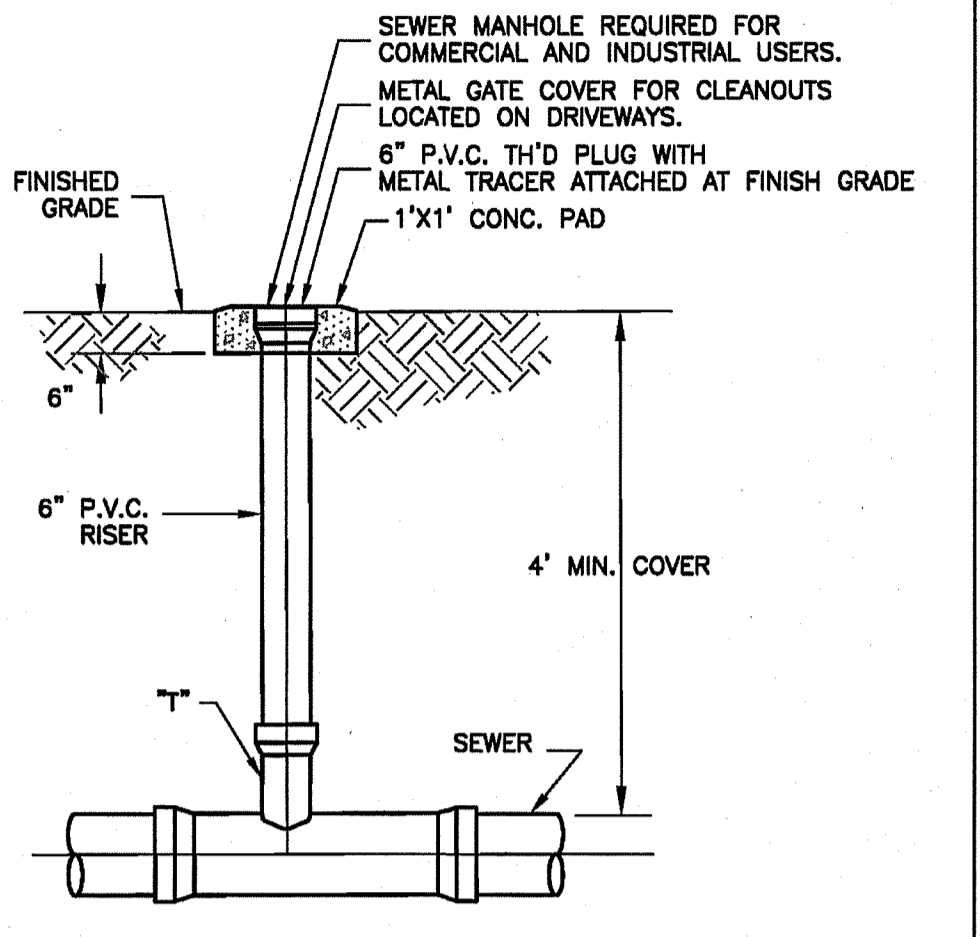
1. ALL GASKETS AND SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.
2. FOR BITUMASTIC TYPE JOINTS THE AMOUNT OF SEALANT SHALL BE SUFFICIENT TO FILL AT LEAST 75% OF THE JOINT CAVITY. APPROVED BITUMASTIC SEALANTS
RAM-NEK
KENT SEAL No. 2

TYPE OF PIPE	SIZE	MAX. DIST. TO FIRST JOINT
R.C.P. & C.I.	ALL	48"
C.I.P.	ALL	48"
P.V.C.	>12"	48"
V.C.P.	0-12"	18"
V.C.P.	>12"	36"

ALL SECTIONS SHALL BE CONCRETE CLASS AA (4000 PSI). CIRCUMFERENTIAL REINFORCEMENT SHALL BE 0.12 SQ. IN. PER LF. IN ALL SECTIONS AND SHALL BE PLACED IN THE CENTER THIRD OF THE WALL. THE TONGUE OR THE GROOVE OF THE JOINT SHALL CONTAIN ONE LINE OF CIRCUMFERENTIAL REINFORCEMENT EQUAL TO 0.12 SQ. IN. PER LF.

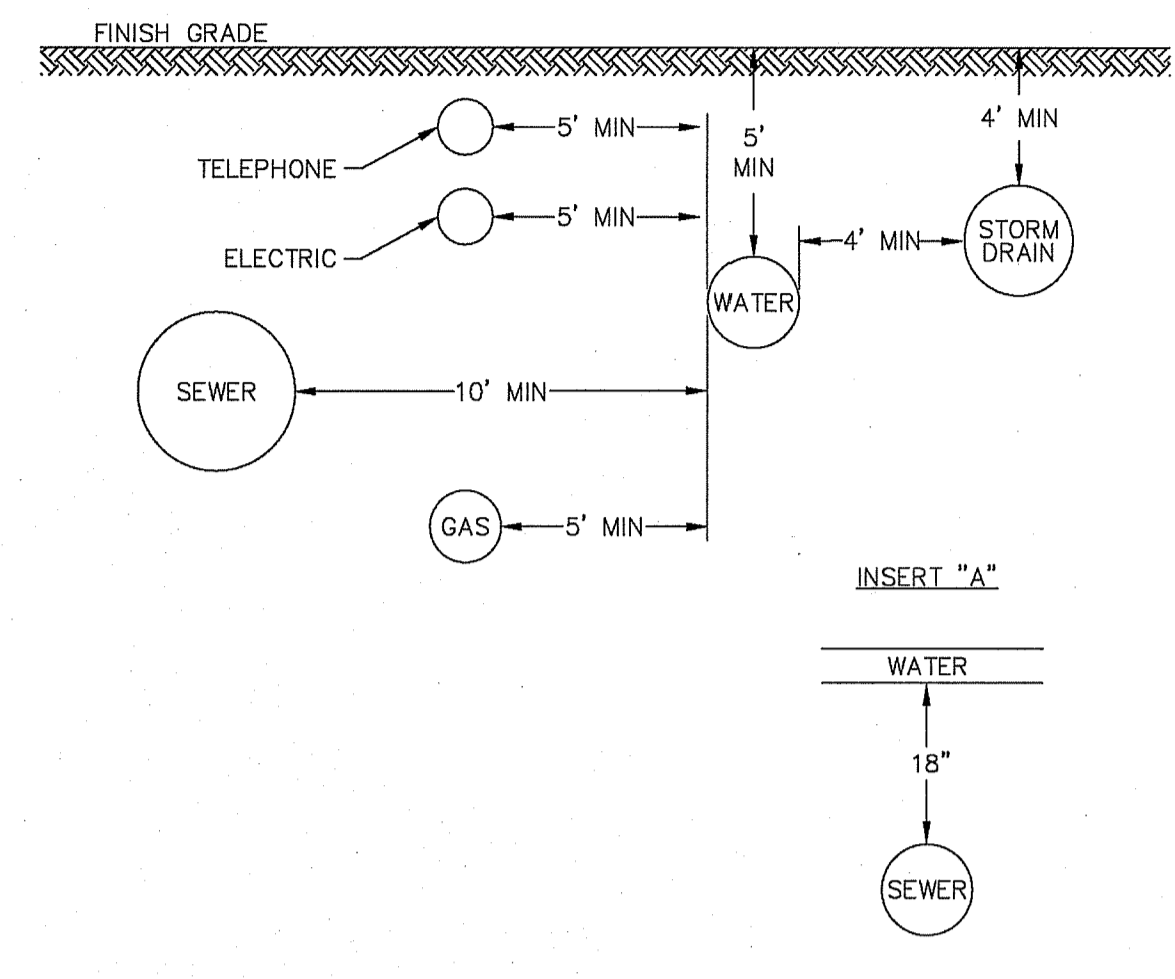
SEWER MANHOLE
NOT TO SCALE

DETAIL S-1
SEWER MANHOLE
TOWN OF HUDSON AUGUST-01
REV. 8/23/19 SCALE: NTS



SEWER CLEANOUT
NOT TO SCALE

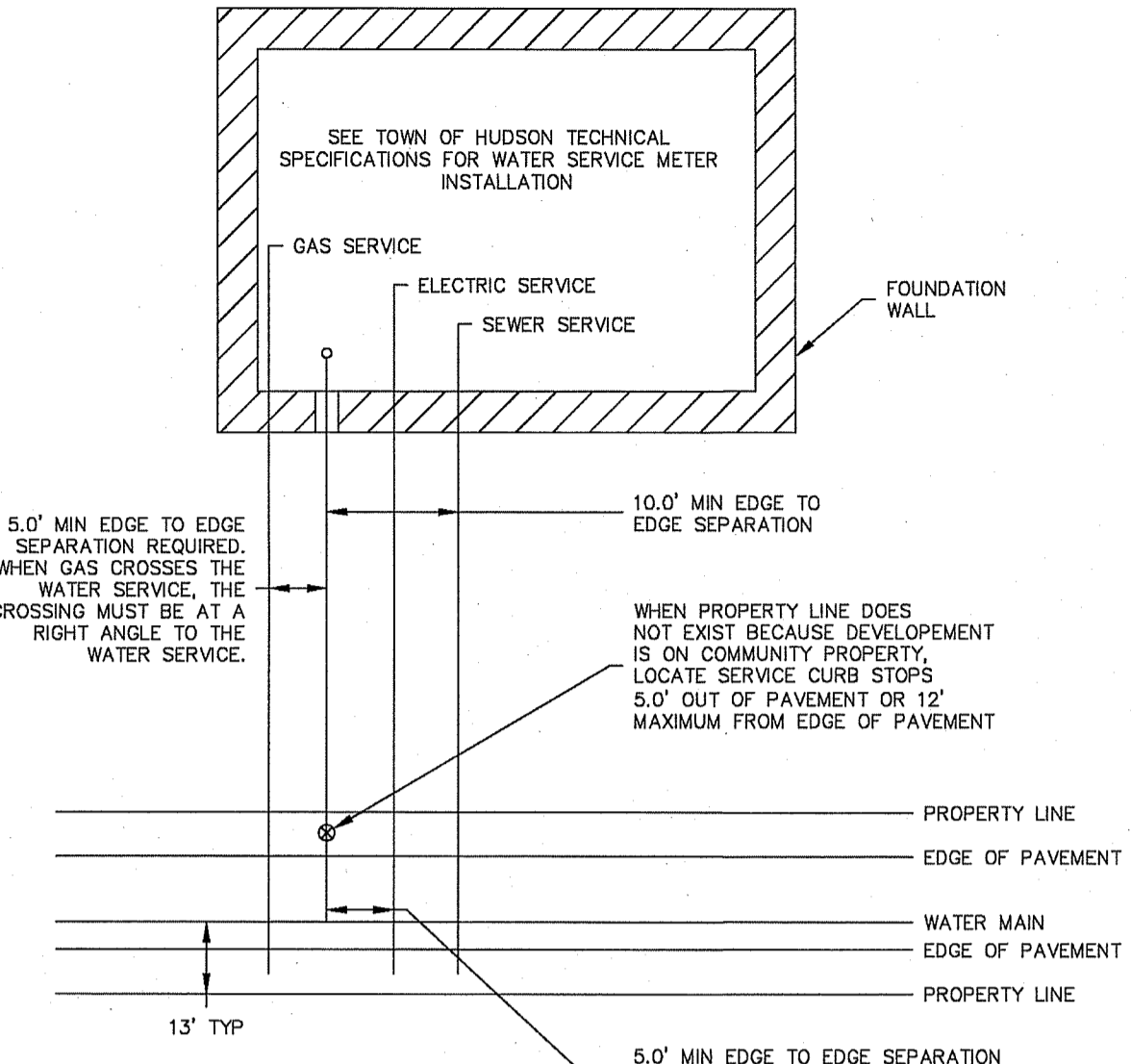
DETAIL S-6
SEWER CLEANOUT
TOWN OF HUDSON AUGUST-01
REV. 8/23/19 SCALE: NTS



NOTES:

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.
2. ALL WATER MAINS SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. SEE DETAIL A-2 FOR TRENCH DETAIL.
4. SEE DETAIL A-11 FOR OUTSIDE SERVICE ENTRANCE DETAIL.
4. AT CROSSINGS WHERE 10' HORIZONTAL SEPERATION IS NOT POSSIBLE, 18" VERTICAL SEPERATION SHALL BE PROVIDED. SEE INSERT "A".

DETAIL W-1
WATER UTILITY SEPARATION
REV. 2019 SCALE: NTS



NOTES:

1. ALL MATERIALS AND INSTALLATION PROCEDURES WILL CONFORM TO TOWN OF HUDSON TECHNICAL SPECIFICATIONS.
2. ALL PIPE SHOULD HAVE A MINIMUM DEPTH OF 5' FROM TOP OF PIPE TO FINISH GRADE.
3. SERVICE ENTRANCE SHALL BE MADE IN THE FRONT OR SIDE OF BUILDING.
4. SERVICE ENTRANCE MADE IN REAR OF HOUSE WILL NOT BE ACCEPTED UNLESS PREVIOUSLY APPROVED BY P.W.W.
5. SERVICE ENTRANCE LOCATION WILL BE DETERMINED BY THE P.W.W. REPRESENTATIVE ON SITE.
6. IF SERVICE IS TAPPED OFF A FIRE SERVICE, THEN SEE DETAIL W-24.

DETAIL W-11
OUTSIDE WATER SERVICE ENTRANCE
REV. 2019 SCALE: NTS

APPROVED BY THE HUDSON PLANNING BOARD

DATE OF MEETING: _____

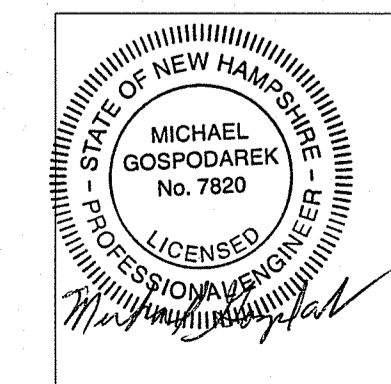
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SECRETARY _____ SIGNATURE DATE _____

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REVISIONS:

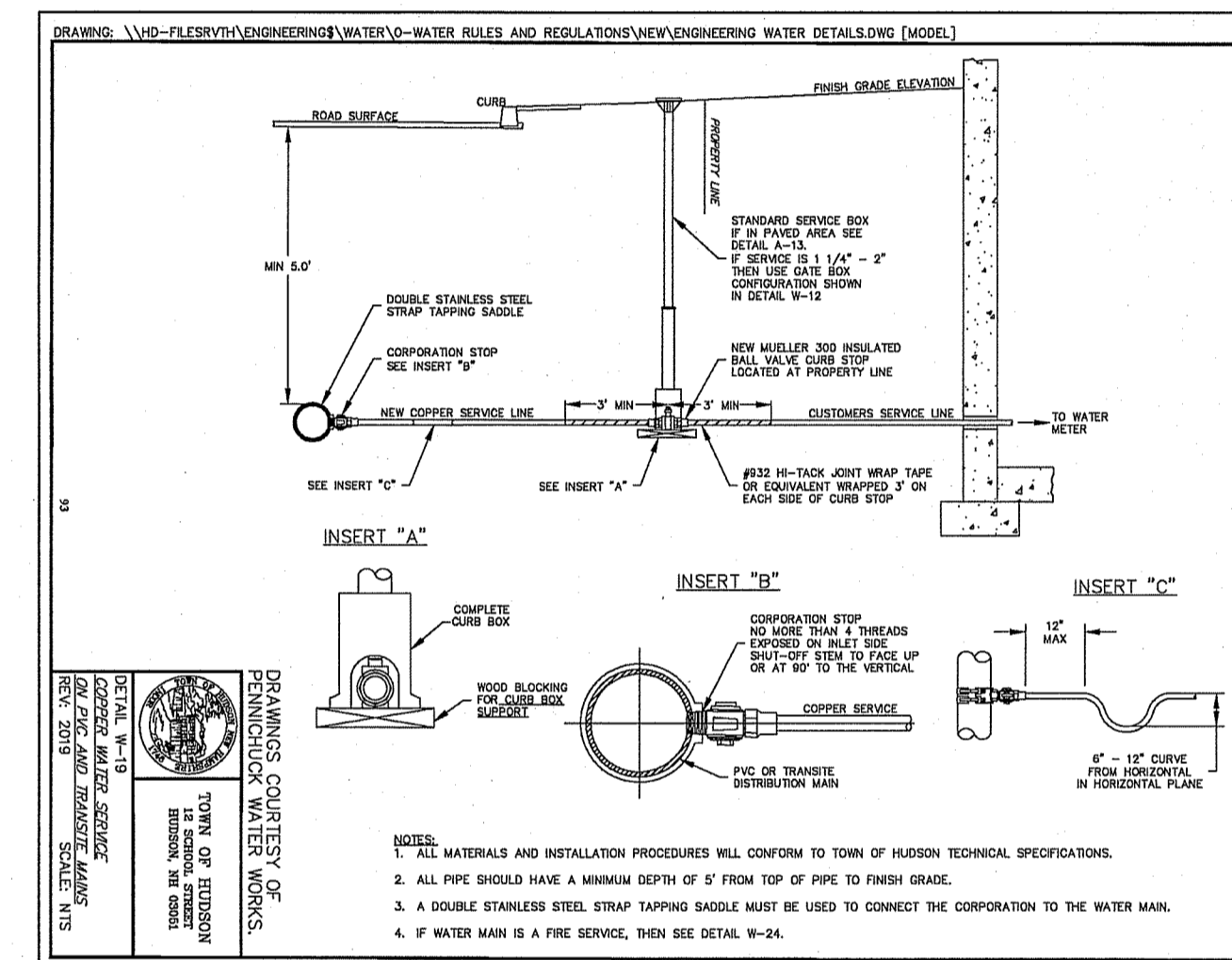
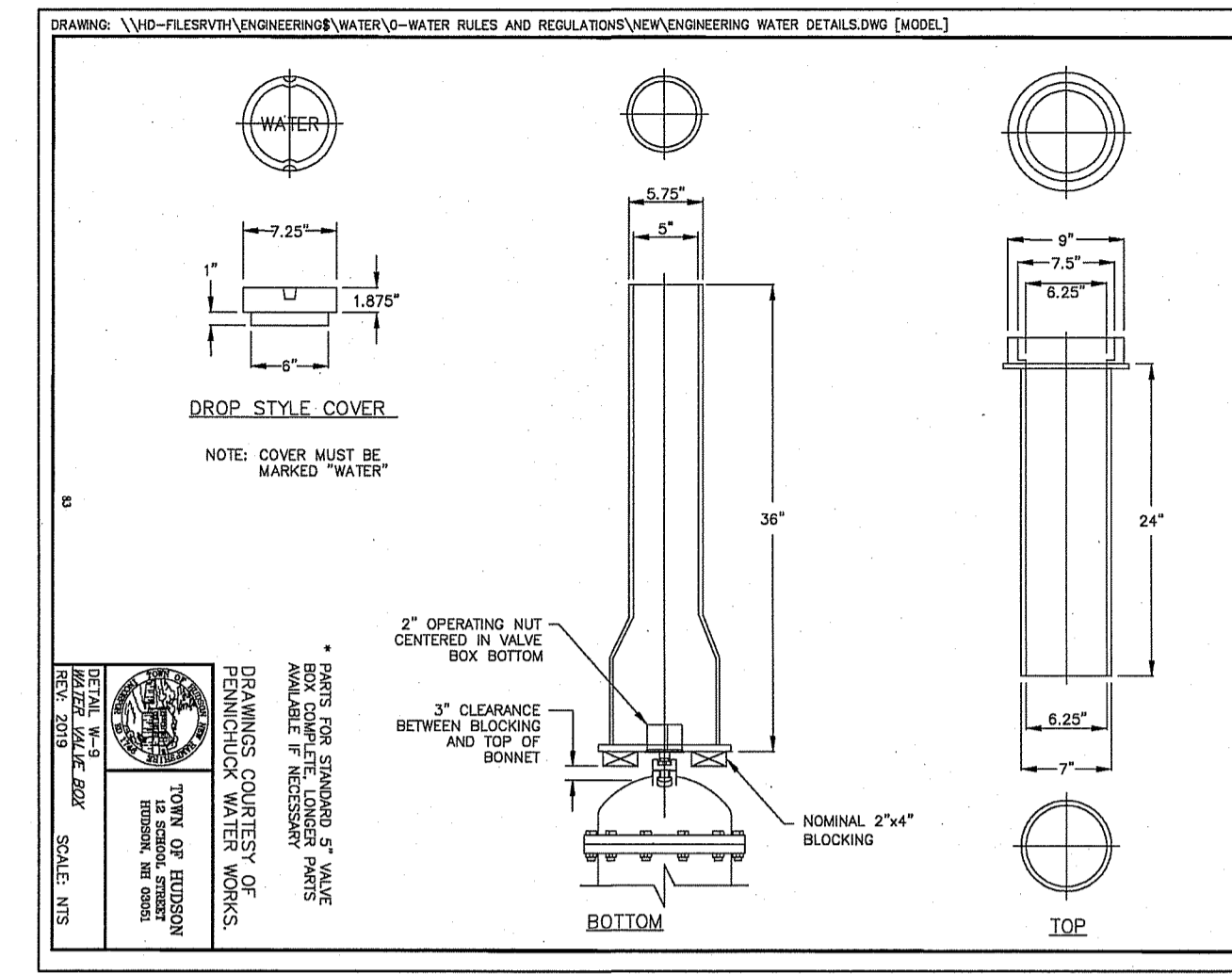
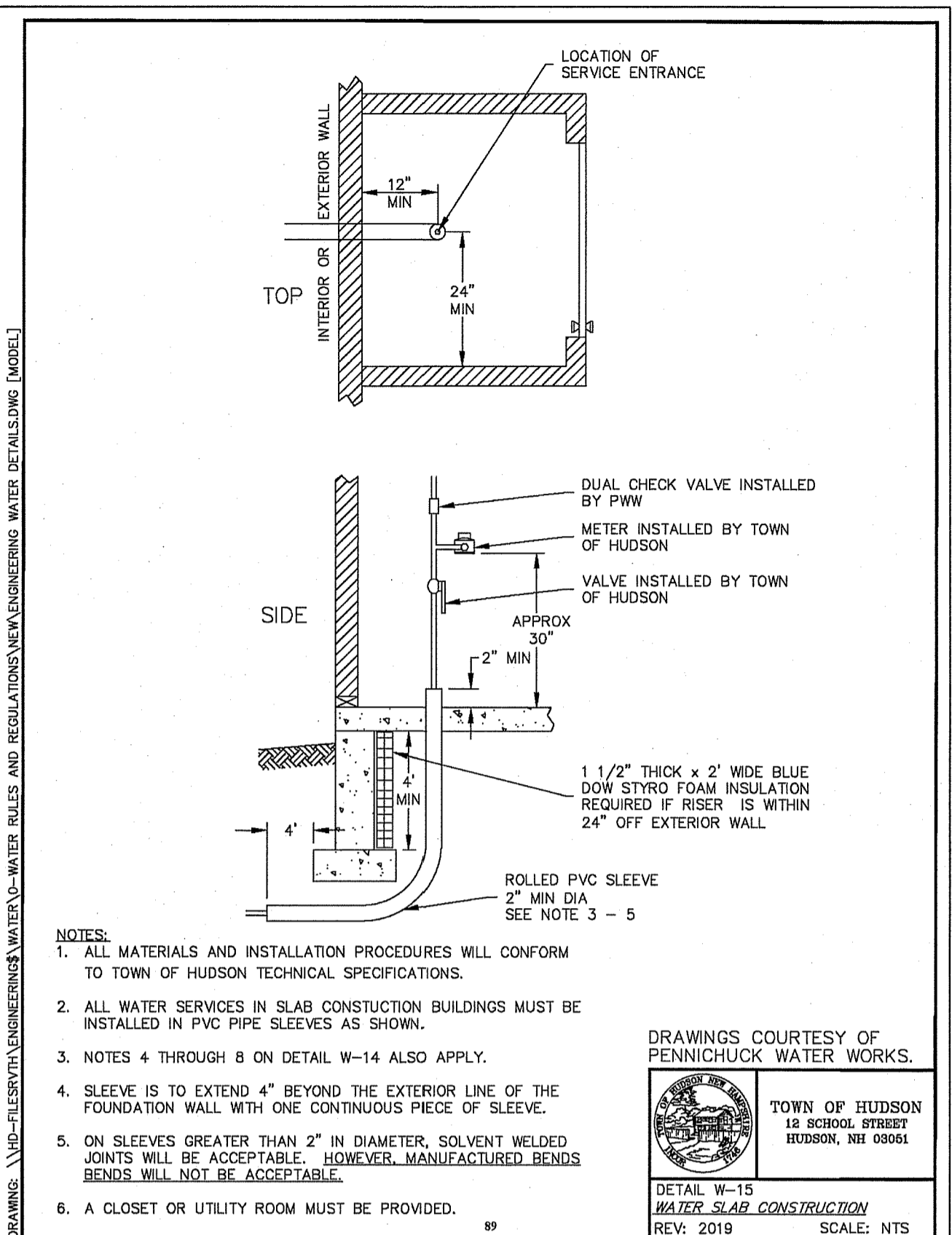
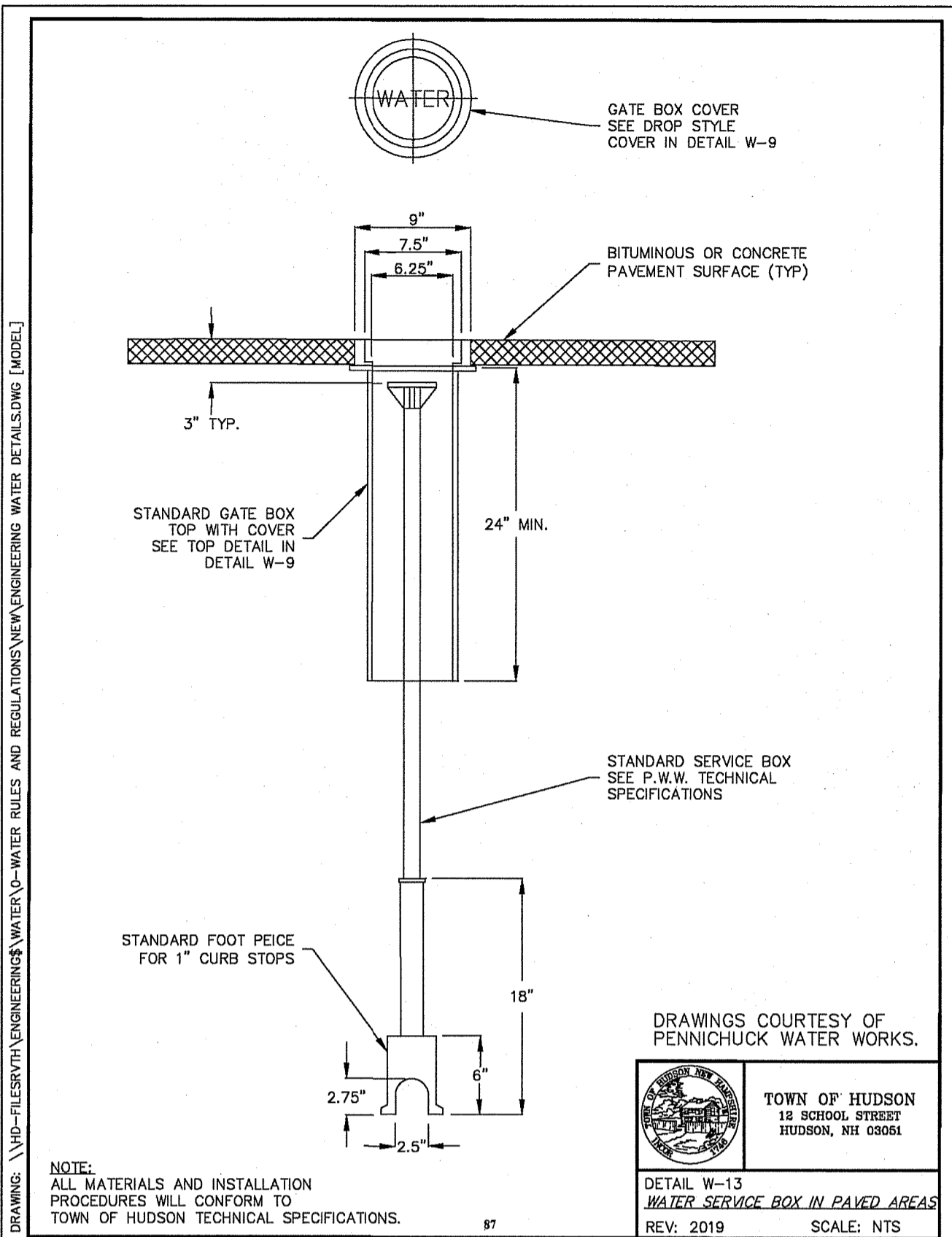
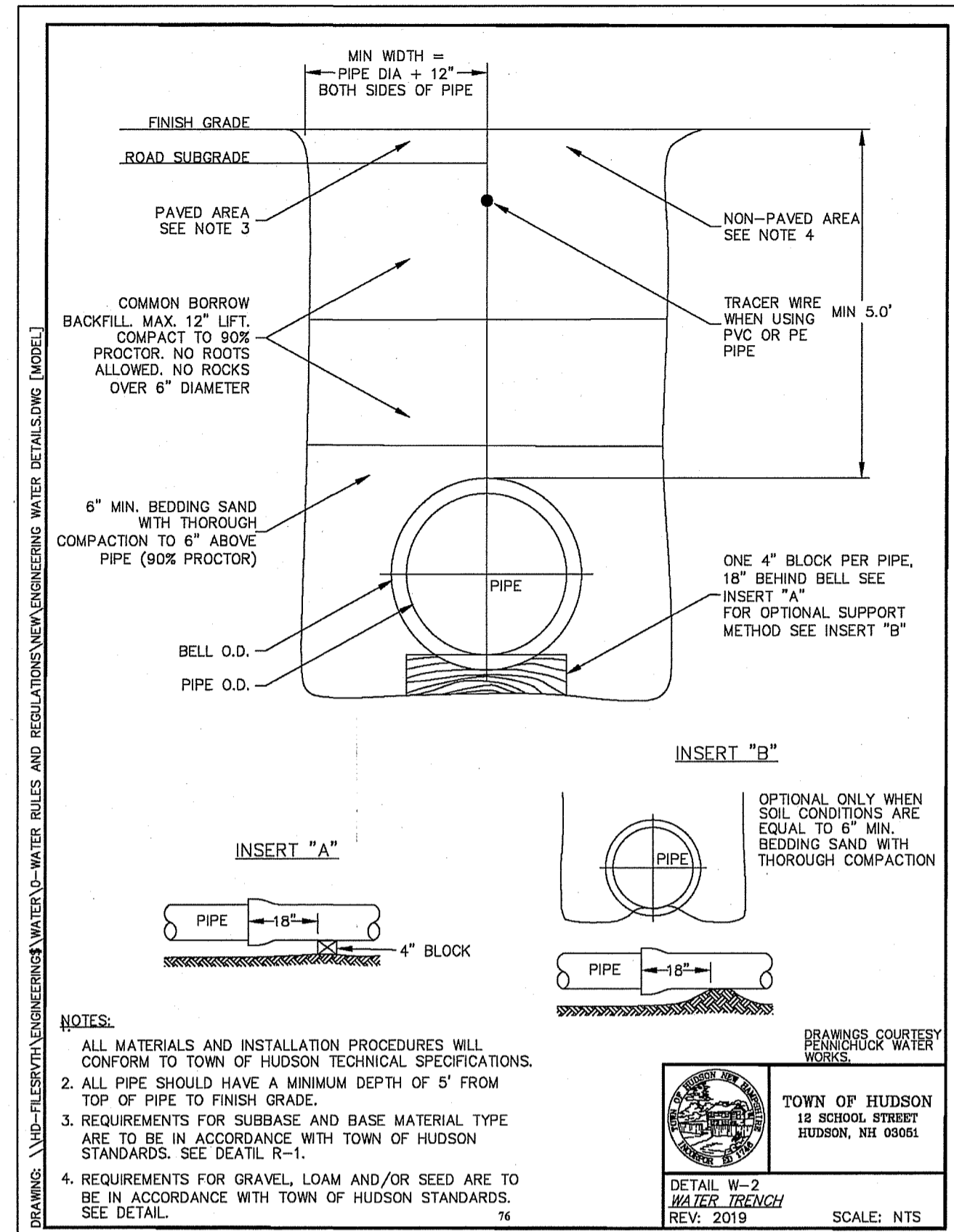
SITE PLAN
MAP 170 / LOT 042-000
19 CONSTITUTION DRIVE
HUDSON, NH

PREPARED FOR:
B & H OIL COMPANY, INC.
6 STARWOOD DRIVE
HAMPSTEAD, NH 03841

SCALE: 1" = _____ DATE: NOVEMBER, 2020

EDWARD N. HERBERT ASSOC., INC.
LAND SURVEYORS - CIVIL ENGINEERS
1 FROST ROAD WINDHAM, NH 03087 (603) 432-2462

Sheet 13 of 17



APPROVED BY THE HUDSON PLANNING BOARD

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SECRETARY _____ SIGNATURE DATE _____

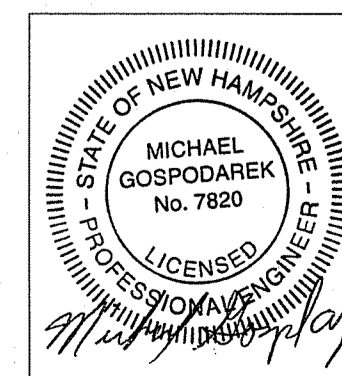
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CALL BEFORE YOU DIG!



REVISIONS:

DETAILS

SITE PLAN

MAP 170 / LOT 042-000

19 CONSTITUION DRIVE

HUDSON, NH

PREPARED FOR:

B & H OIL COMPANY, INC.

6 STARWOOD DRIVE

HAMPSTEAD, NH 03841

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EDWARD N. HERBERT ASSOC., INC.

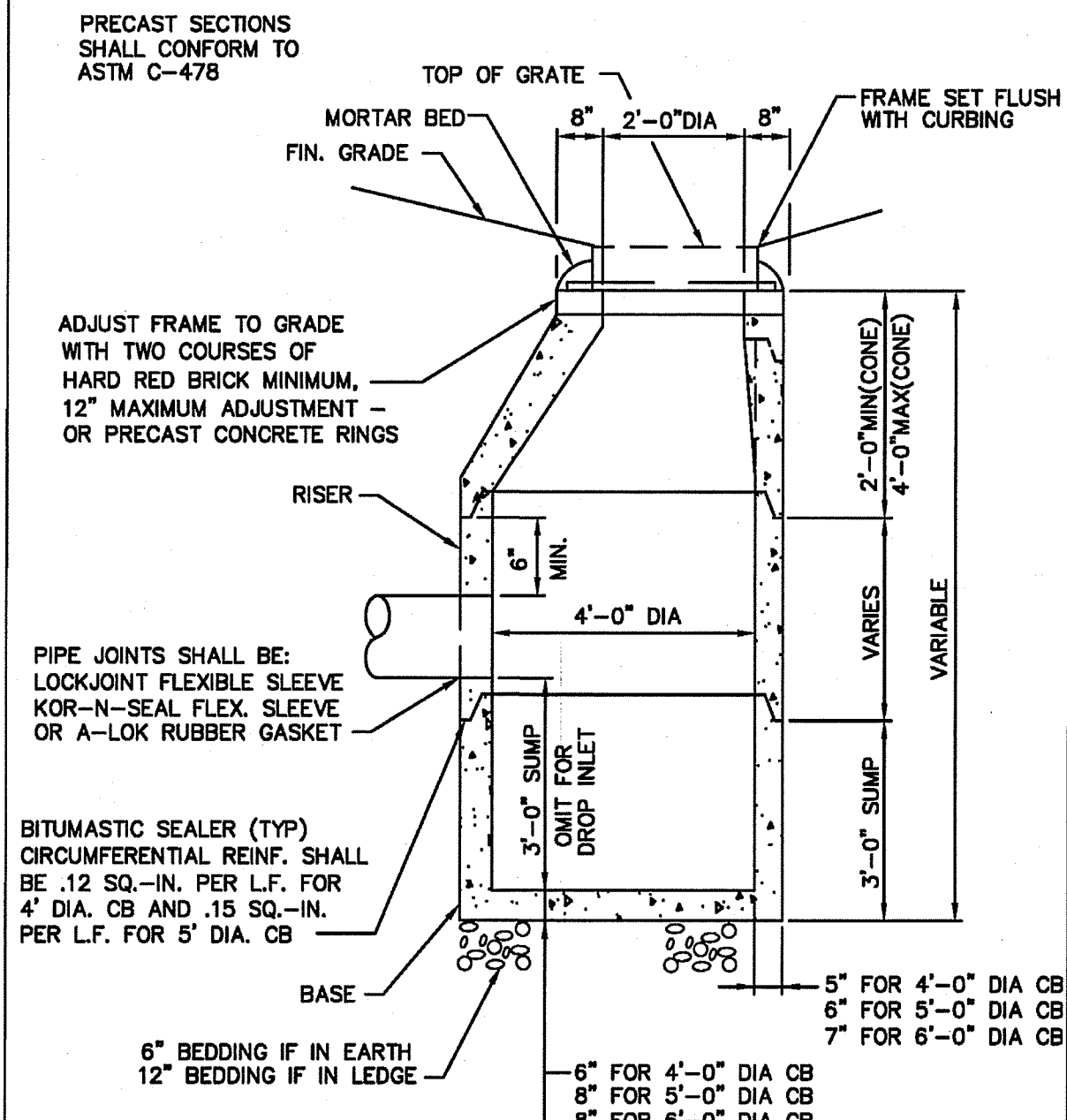
LAND SURVEYORS - CIVIL ENGINEERS

1 FROST ROAD WINDHAM, NH 03087 (603) 432-2462

Sheet 14 of 17

PRECAST REINFORCED CATCH BASIN

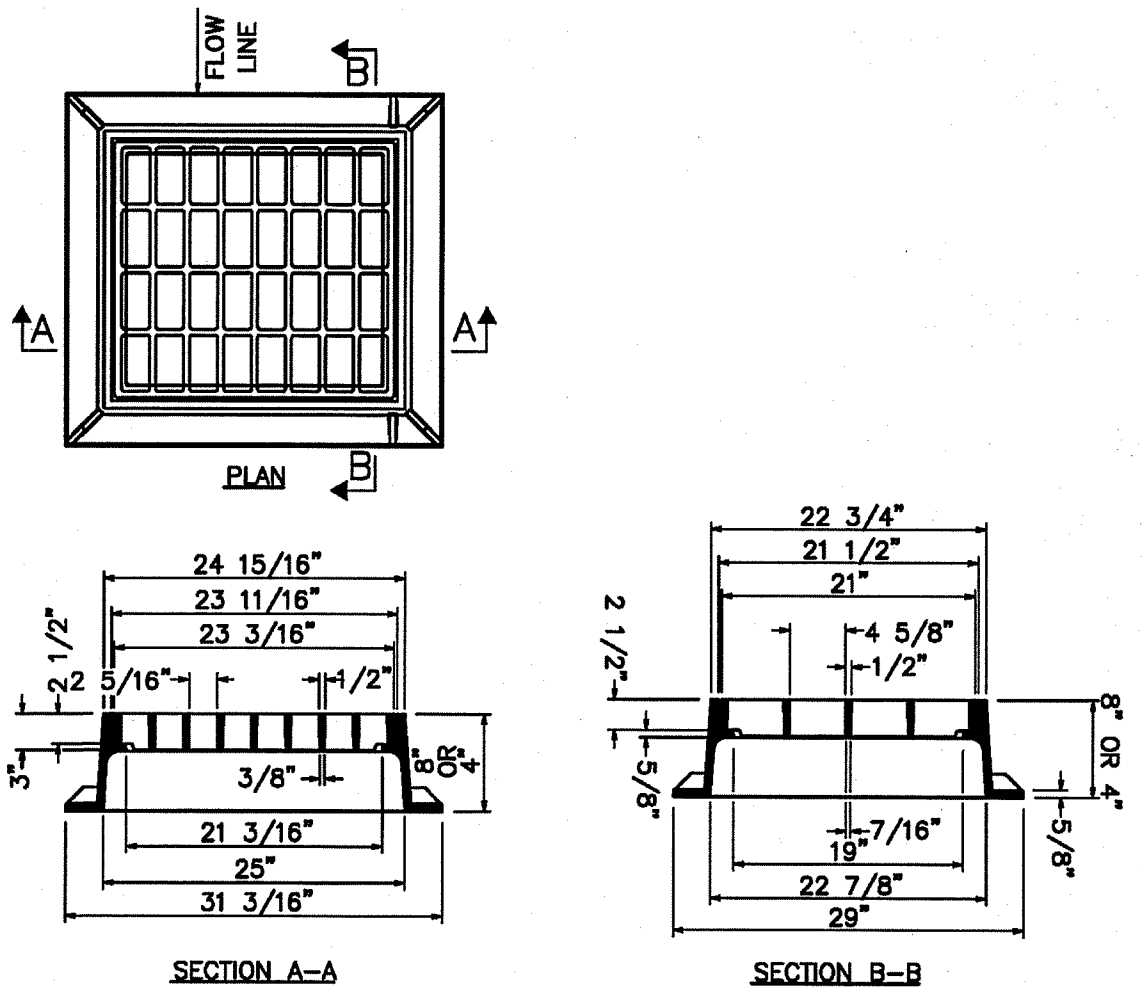
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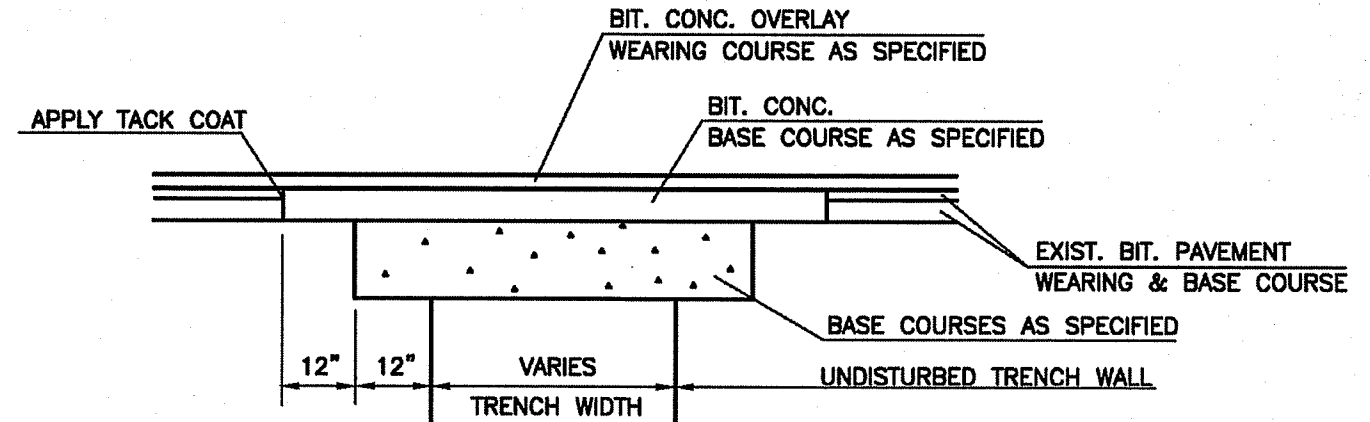
DETAIL D-2
PRECAST REINFORCED CATCH BASIN
 TOWN OF HUDSON
 19 SCHOOL STREET
 HUDSON, NH 03051
 TOWN OF HUDSON
 AUGUST-01
 REV: SCALE: NTS

ON PAVEMENT CATCH BASIN GRATE

NOT TO SCALE



NHDOT TYPE B
 TOWN OF HUDSON
 19 SCHOOL STREET
 HUDSON, NH 03051
 TOWN OF HUDSON
 AUGUST-01
 REV: JULY 2019
 SCALE: NTS

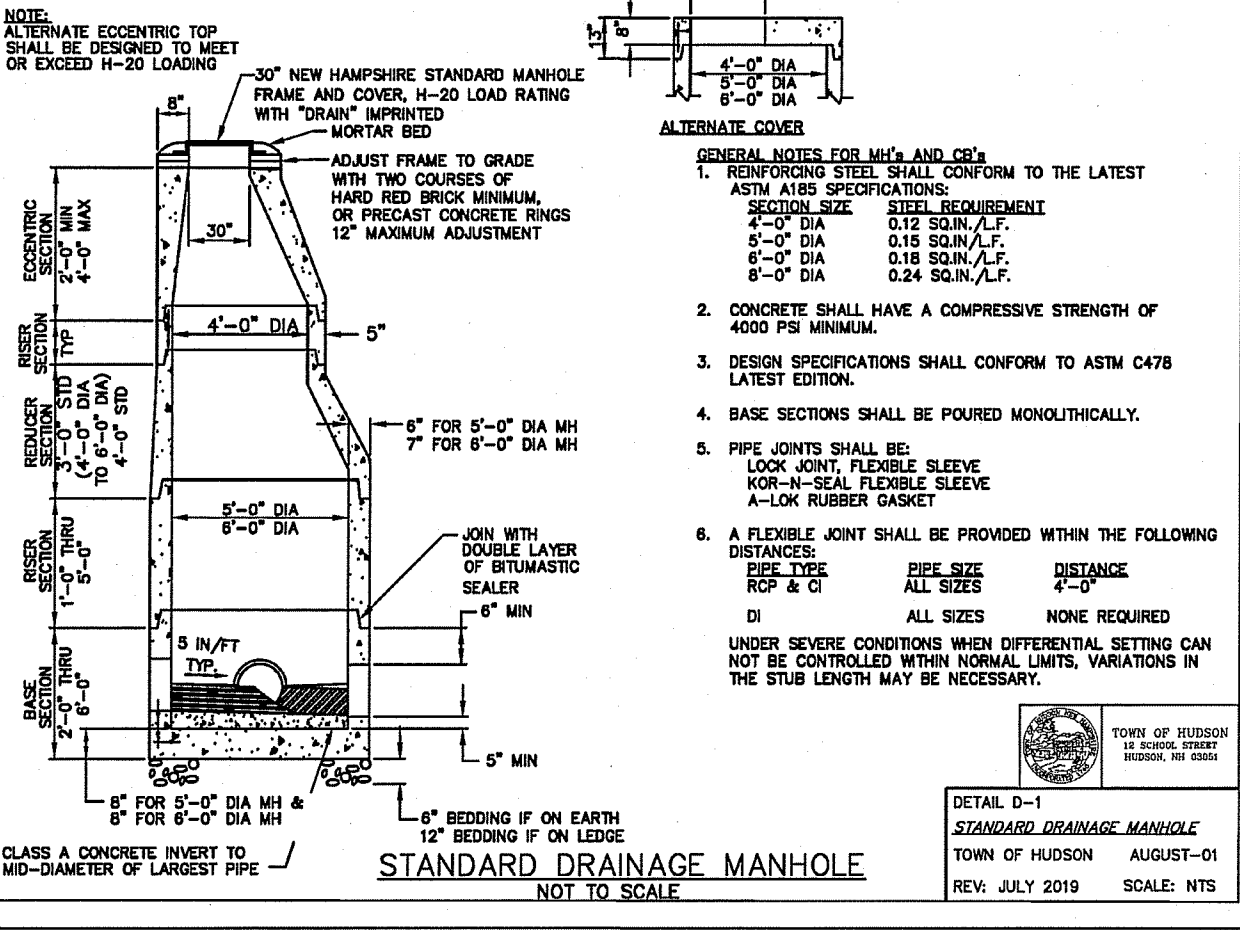


NOTE: AT END OF OVERLAY, SAW CUT AND REMOVE EXISTING PAVEMENT. BUTT PROPOSED OVERLAY TO EXISTING WEARING COURSE.

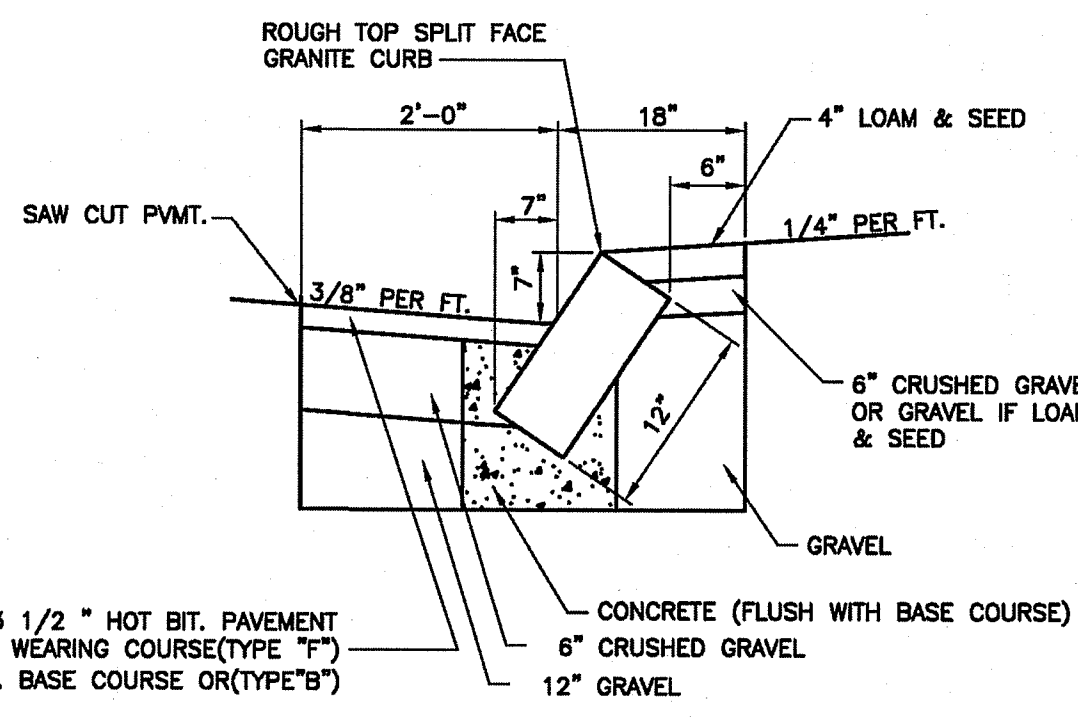
PAVEMENT PATCH WITH OVERLAY

NOT TO SCALE

DETAIL R-5
PAVEMENT PATCH WITH OVERLAY
 TOWN OF HUDSON
 AUGUST-01
 REV: 8/23/19
 SCALE: NTS



DETAIL D-1
STANDARD DRAINAGE MANHOLE
 TOWN OF HUDSON
 19 SCHOOL STREET
 HUDSON, NH 03051
 TOWN OF HUDSON
 AUGUST-01
 REV: JULY 2019
 SCALE: NTS



SLOPED GRANITE CURB REMOVED & RESET OR INSTALLED

NOT TO SCALE

DETAIL R-4
SLOPED GRANITE CURB REMOVED & RESET OR INSTALLED
 TOWN OF HUDSON
 AUGUST-01
 REV: 8/23/19
 SCALE: NTS

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 _____ SIGNATURE DATE _____
 PLANNING BOARD CHAIRMAN
 _____ SIGNATURE DATE _____
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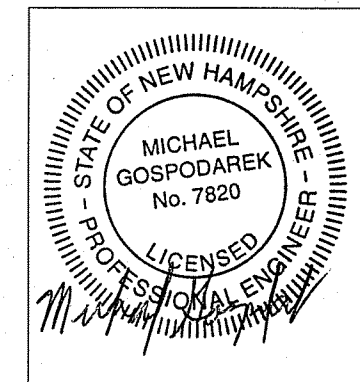
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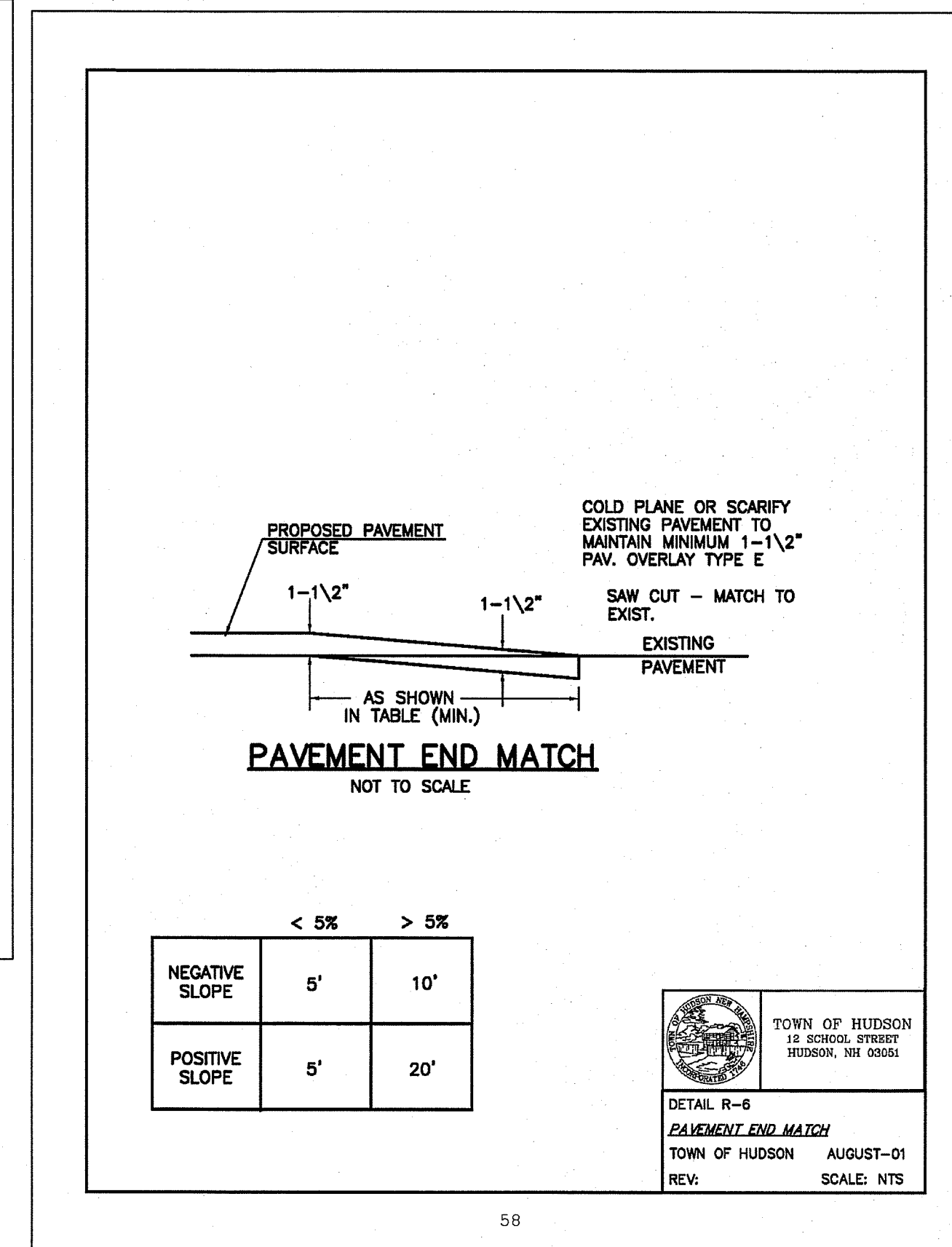
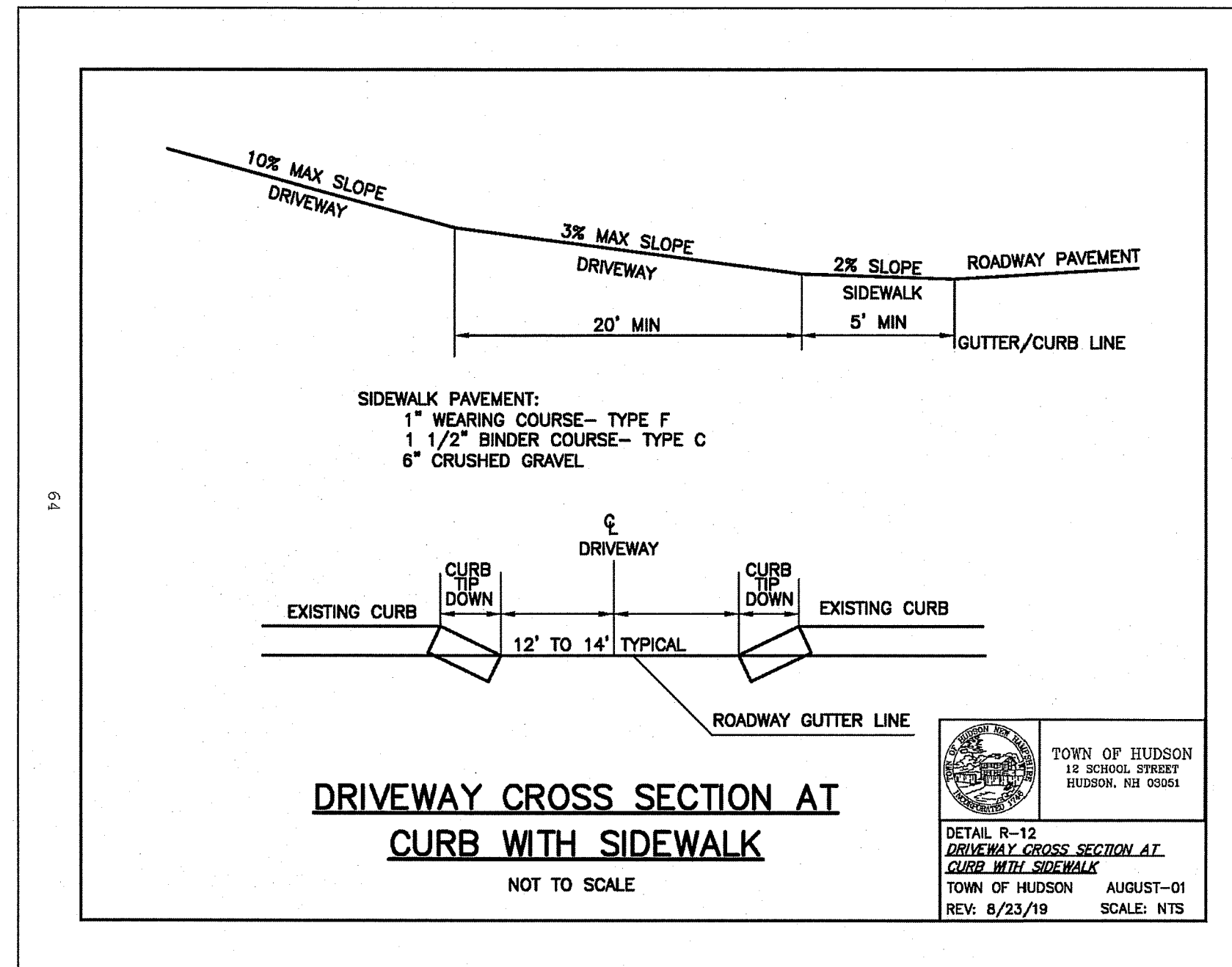
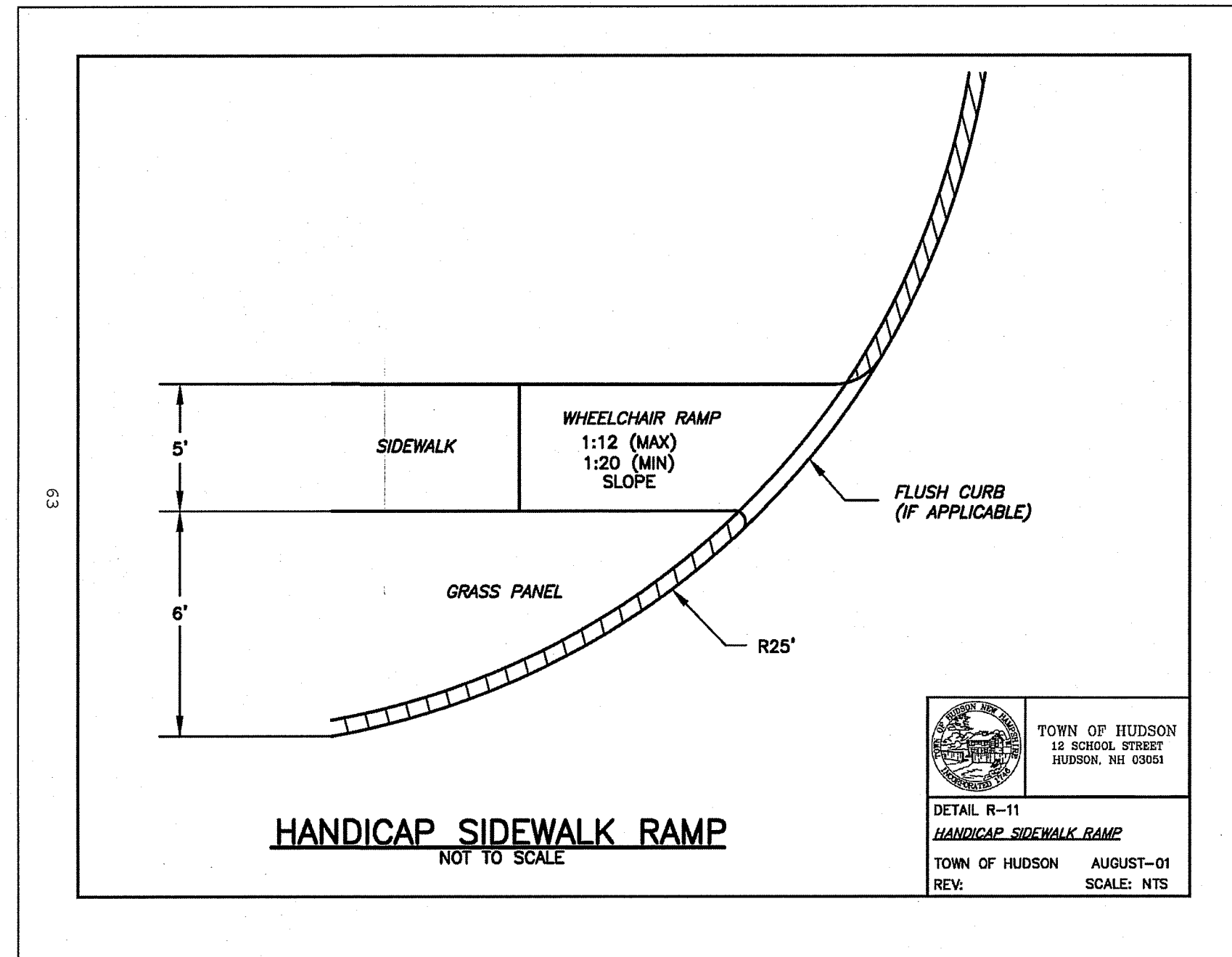
SITE PLAN
 MAP 170 / LOT 042-000
 19 CONSTITUTION DRIVE
 HUDSON, NH

PREPARED FOR:
 B & H OIL COMPANY, INC.
 6 STARWOOD DRIVE
 HAMPSTEAD, NH 03841

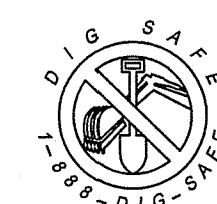
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EDWARD N. HERBERT ASSOC., INC
 LAND SURVEYORS - CIVIL ENGINEERS
 1 FROST ROAD WINDHAM, NH 03087 (603) 432-2462

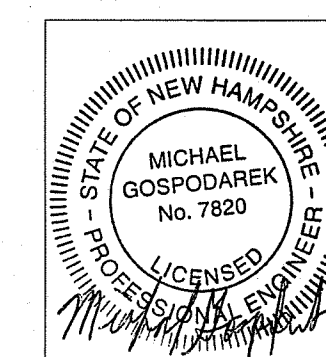
Sheet 15 of 17



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CALL BEFORE YOU DIG!



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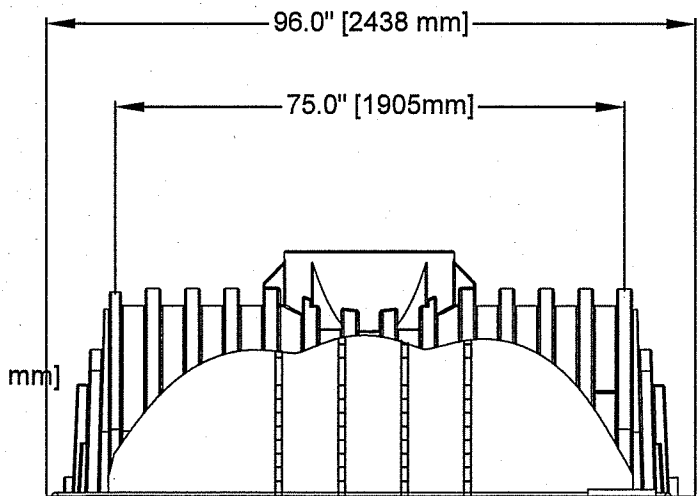
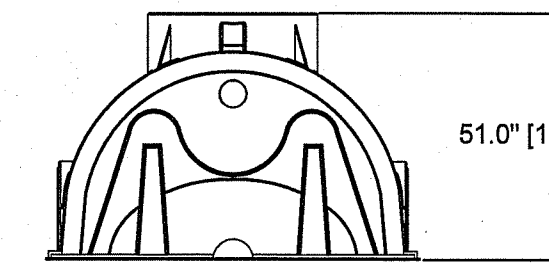
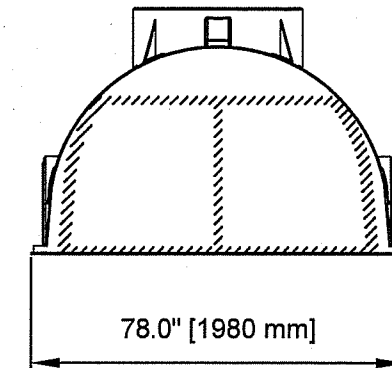
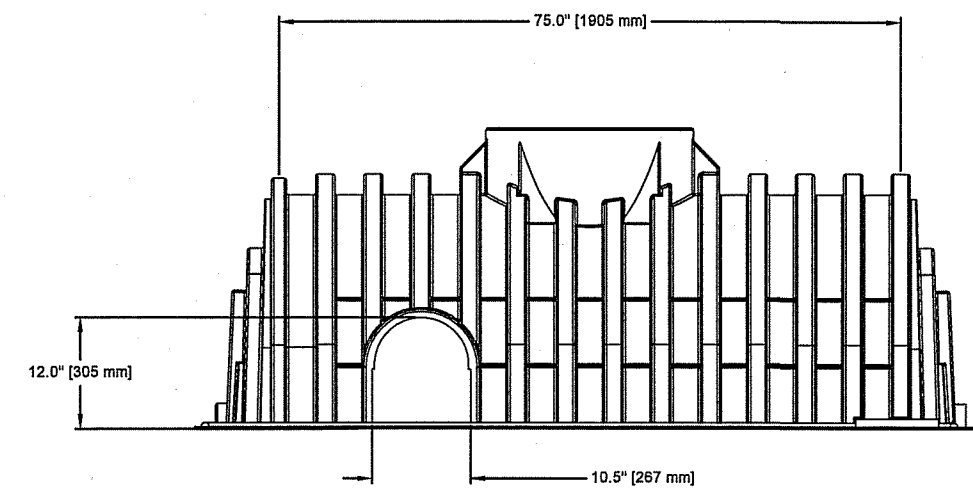
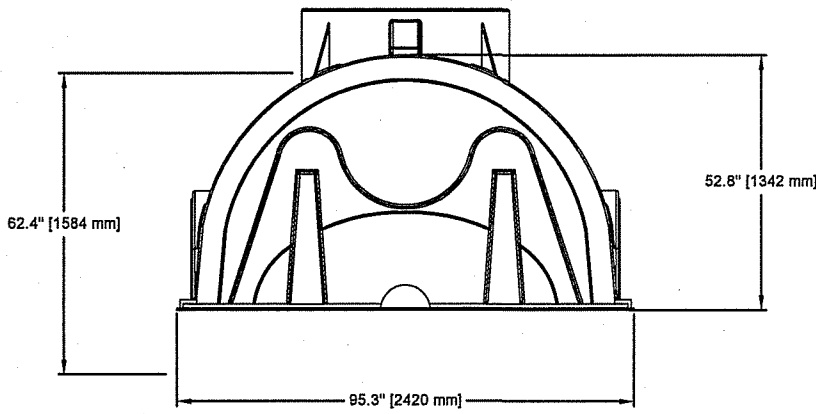
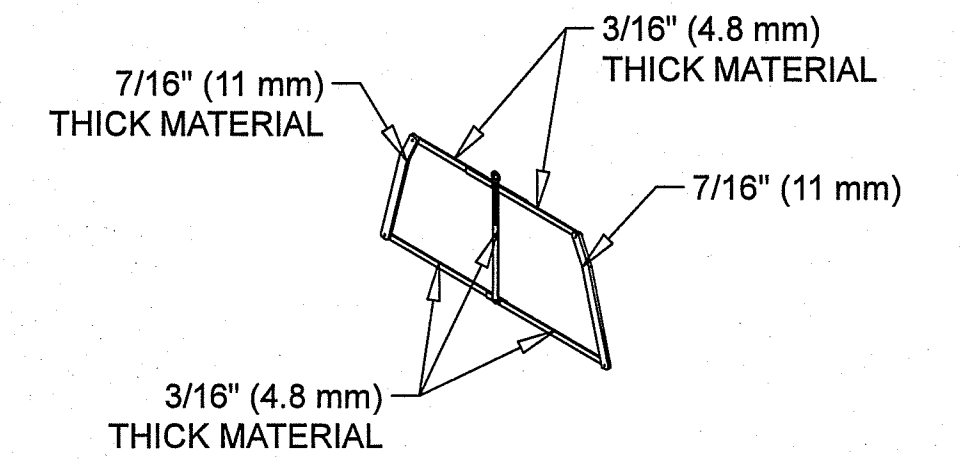
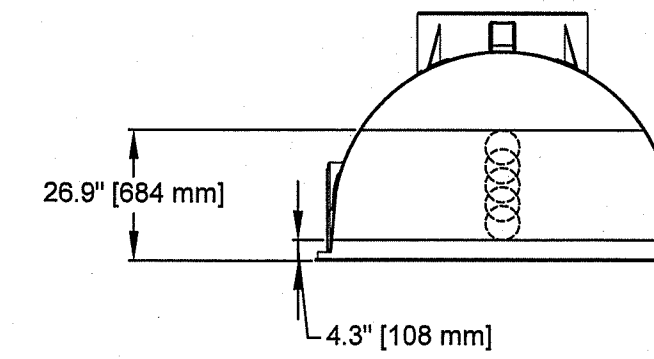
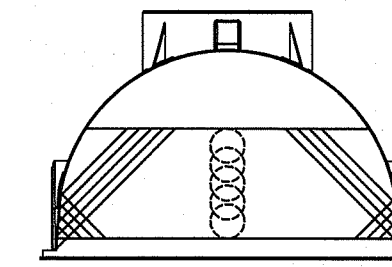
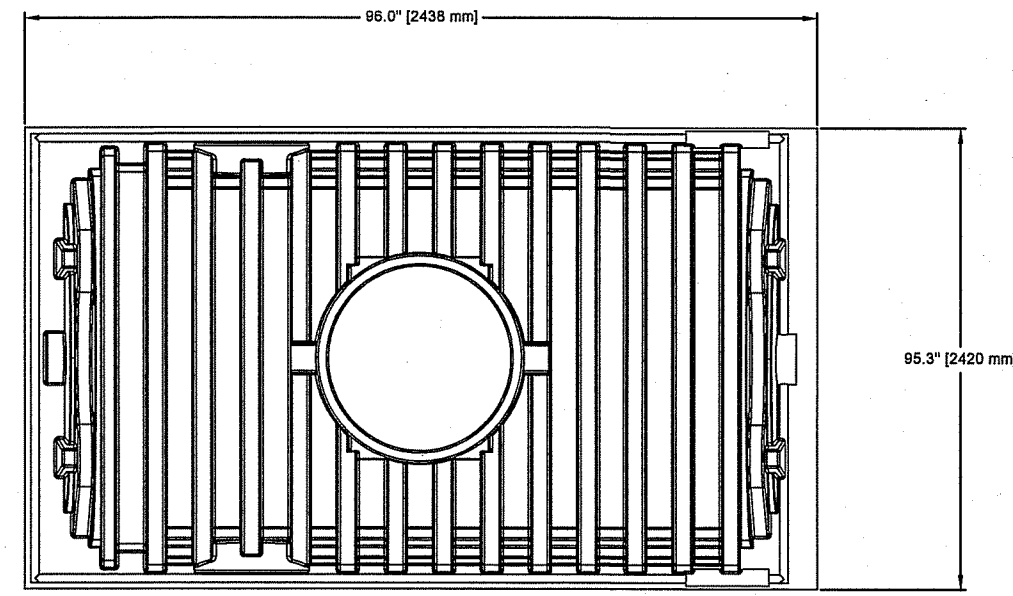
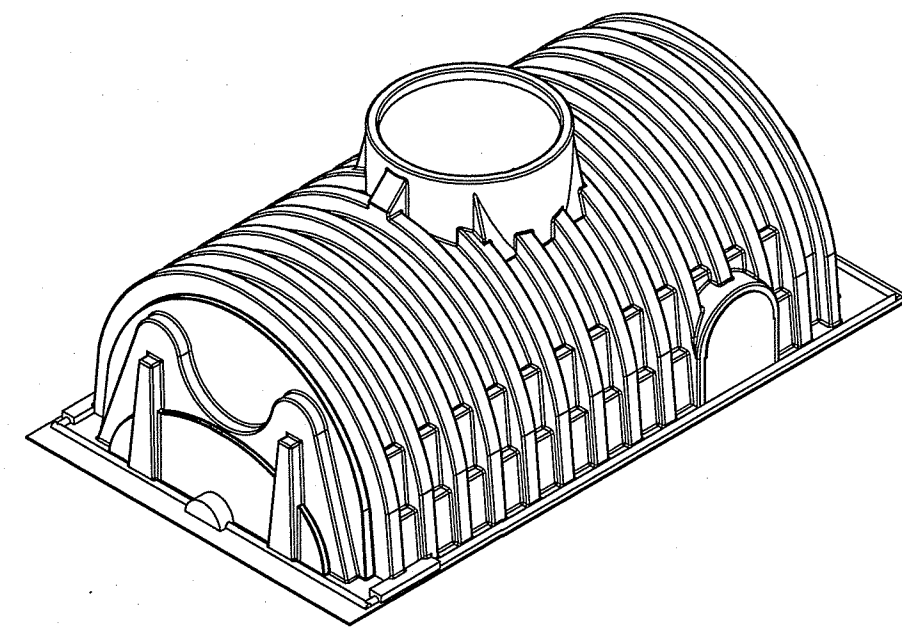
SITE PLAN
MAP 170 / LOT 042-000
19 CONSTITUTION DRIVE
HUDSON, NH

PREPARED FOR:
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6 STARWOOD DRIVE
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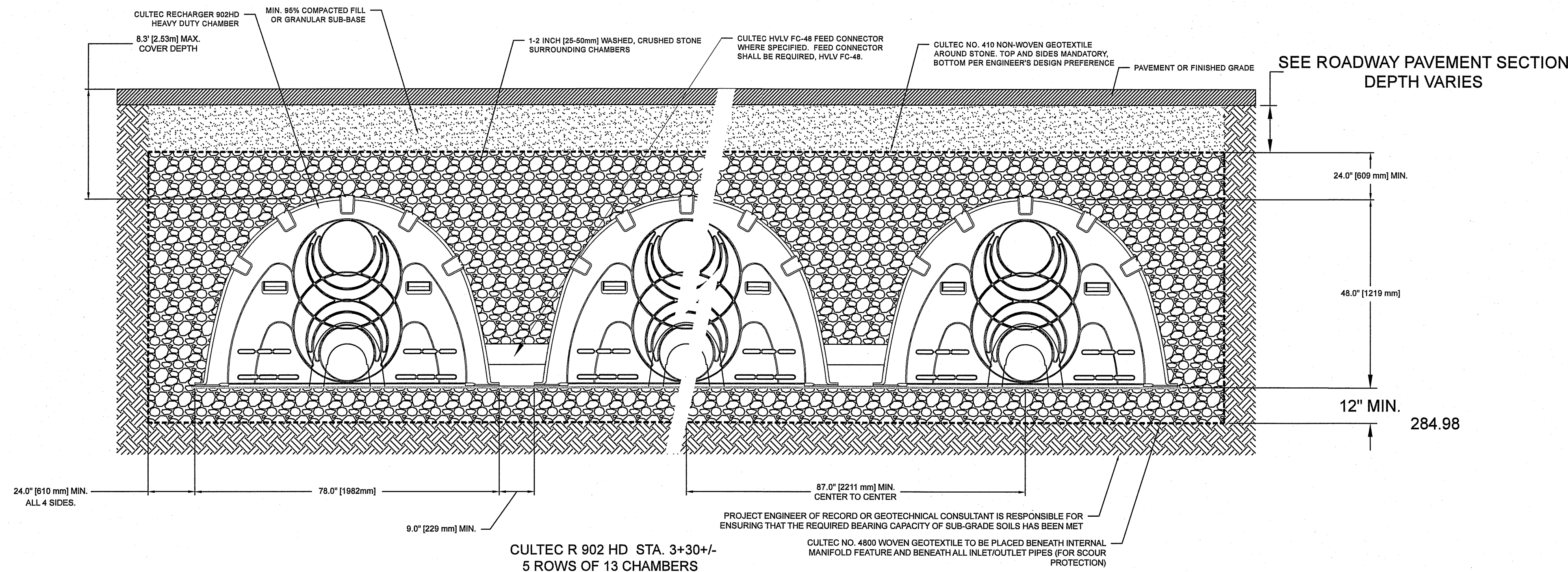
EDWARD N. HERBERT ASSOC., INC
LAND SURVEYORS - CIVIL ENGINEERS
1 FROST ROAD WINDHAM, NH 03087 (603) 432-2462

Sheet 16 of 17



**CULTEC STORMFILTER 330 THREE VIEW
WQU**

CULTEC FILTER FRAME DETAIL



**CULTEC R 902 HD STA. 3+30+/-
5 ROWS OF 13 CHAMBERS**

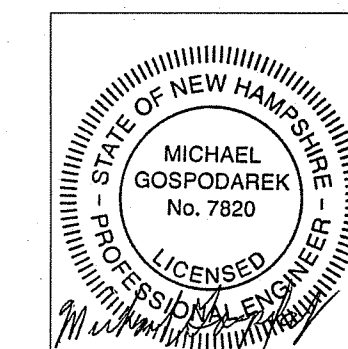
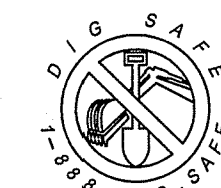
**CULTEC R 902 HD
DETAIL**

NOTES:

1. THE CHAMBERS SHALL BE DESIGNED AND TESTED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS." THE LOAD CONFIGURATION SHALL INCLUDE:
 - 1.a. INSTANTANEOUS AASHTO DESIGN TRUCK LIVE LOAD AT MINIMUM COVER
 - 1.b. MAXIMUM PERMANENT (50-YEAR) COVER LOAD
 - 1.c. 1-WEEK PARKED AASHTO DESIGN TRUCK LOAD
2. THE CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F3430-20 "STANDARD SPECIFICATION FOR CELLULAR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
3. THE INSTALLED CHAMBER SYSTEM SHALL PROVIDE RESISTANCE TO THE LOADS AND LOAD FACTORS AS DEFINED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS SECTION 12.12, WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS. THE STRUCTURAL DESIGN OF THE CHAMBERS SHALL INCLUDE THE FOLLOWING:
 - 3.a. THE CREEP MODULUS SHALL BE 50-YEAR AS SPECIFIED IN ASTM F3430
 - 3.b. THE MINIMUM SAFETY FACTOR FOR LIVE LOADS SHALL BE 1.75
 - 3.c. THE MINIMUM SAFETY FACTOR FOR DEAD LOADS SHALL BE 1.85

PROJECT ENGINEER OF RECORD OR GEOTECHNICAL CONSULTANT IS RESPONSIBLE FOR ENSURING THAT THE REQUIRED BEARING CAPACITY OF SUB-GRADE SOILS HAS BEEN MET
CULTEC NO. 4800 WOVEN GEOTEXTILE TO BE PLACED BENEATH INTERNAL MANIFOLD FEATURE AND BENEATH ALL INLET/OUTLET PIPES (FOR SCOUR PROTECTION)

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APPROVED BY THE HUDSON PLANNING BOARD

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SIGNATURE DATE _____
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REVISIONS:
<p align="center">SITE PLAN MAP 170 / LOT 042-000 19 CONSTITUTION DRIVE HUDSON, NH</p> <p align="center">PREPARED FOR: B & H OIL COMPANY, INC. 6 STARWOOD DRIVE HAMPSTEAD, NH 03841</p> <p>SCALE: 1" = _____ DATE: NOVEMBER, 2020</p> <p align="center">EDWARD N. HERBERT ASSOC., INC LAND SURVEYORS - CIVIL ENGINEERS 1 FROST ROAD WINDHAM, NH 03087 (603) 432-2462</p>