





## NEW HAMPSHIRE DEMOLITION NOTES

(Rev. 10/2025)

- THE CONTRACTOR MUST LOCATE AND CLEARLY DEFINE VERTICALLY AND HORIZONTALLY ALL ACTIVE AND INACTIVE UTILITY AND/OR SERVICE SYSTEMS THAT ARE TO BE REMOVED. THE CONTRACTOR IS RESPONSIBLE TO PROTECT AND MAINTAIN ALL ACTIVE SYSTEMS THAT ARE NOT BEING REMOVED/RELOCATED DURING SITE ACTIVITY.
- CONTRACTOR MUST FIELD LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION AND IF REQUIRED, DIG EXPLORATORY TEST PITS TO CONFIRM EXACT LOCATION AND DEPTH OF UTILITIES. CONTRACTOR MUST NOTIFY DESIGN ENGINEER WITH ANY CONFLICTS AS NEEDED TO COORDINATE FINAL LOCATION OF ALL PROPOSED IMPROVEMENTS.
- CONTRACTOR MUST INSPECT ALL EXISTING UTILITY STRUCTURES THAT ARE TO REMAIN FOR THE PROJECTS. REUSE TO VERIFY SUITABILITY FOR SAME. IF STRUCTURES CAN NOT BE REUSED THEN THE CONTRACTOR MUST PROVIDE A NEW STRUCTURE. THE CONTRACTOR MUST COORDINATE SUCH WORK WITH THE APPLICABLE UTILITY PROVIDER.
- CONTRACTOR TO REMOVE ANY BUILDING FOUNDATION REMAINS OR ASSOCIATED IMPROVEMENTS, DELETERIOUS MATERIALS, AND/OR DEBRIS THAT IMPEDE THE WORK SHOWN ON THESE PLANS.
- THE CONTRACTOR MUST REVIEW THE PLANS VERSUS THE LOCATION OF EXISTING STRUCTURES, UTILITIES AND APPURTENANCES IN THE FIELD TO CONFIRM ACCURACY OF SAME AND VERIFY ITEMS TO BE REMOVED. THE CONTRACTOR MUST CARRY COSTS FOR REMOVAL OF ANY EXISTING STRUCTURES, APPURTENANCES, AND UNDERGROUND UTILITIES, INCLUDING BUT NOT LIMITED TO, DRAIN, WATER, SEWER, STEAM, IRRIGATION, GAS, TELECOM AND ELECTRIC.
- THE CONTRACTOR MUST MAINTAIN, ADJUST OR ABANDON EXISTING MONITORING WELLS IN ACCORDANCE WITH THE DIRECTION OF THE ENVIRONMENTAL CONSULTANT (EPC).
- WHERE THE LIMIT OF WORK COINCIDES WITH PROPERTY LINE, TREE LINE, PROPOSED SAWCUT OR COMBINATION THEREOF IT IS SHOWN ADJACENT TO THESE FEATURES FOR GRAPHICAL CLARITY.
- EXISTING TREES TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION UNLESS CLEARLY INDICATED OTHERWISE. REASONABLE CARE AND CAUTION MUST BE TAKEN DURING CONSTRUCTION TO PREVENT DAMAGE AND SELECTIVE PRUNING MAY BE REQUIRED TO ENSURE THAT TREES DO NOT CONFLICT WITH THE DEVELOPMENT.
- CONTRACTOR MUST REPAIR/REPLACE ANY TRAFFIC LOOP DETECTORS THAT ARE DAMAGED DURING CONSTRUCTION WITHIN EXISTING OR PROPOSED RIGHTS OF WAY. ANY SUCH WORK MUST BE PERFORMED BY A LICENSED / DOT APPROVED SIGNAL CONTRACTOR. ANY DAMAGED LOOPS OR OTHER SIGNAL EQUIPMENT MUST BE REPAIRED IMMEDIATELY AFTER THE WORK IS COMPLETE. THE SIGNAL CONTRACTOR MUST BE AVAILABLE TO MAKE ANY TEMPORARY SIGNAL CHANGES IF REQUESTED BY DOT AND/OR THE MUNICIPALITY.
- THE CONTRACTOR MUST FIELD VERIFY THE LOCATIONS WHERE PROPOSED UTILITIES CROSS EXISTING UNDERGROUND UTILITIES BY USING A TEST PIT TO DETERMINE THE EXACT SIZE, DEPTH AND LOCATION, PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- CONTRACTOR MUST LOCATE ANY EXISTING UTILITY SERVICES THAT ARE TO BE TERMINATED AT THE EXISTING MAIN AND/OR PROPERTY LINE. THESE SERVICES ARE TO BE TERMINATED IN ACCORDANCE WITH MUNICIPAL / STATE TRANSPORTATION DEPARTMENT REQUIREMENTS.

## NEW HAMPSHIRE SITE NOTES

(Rev. 10/2025)

- WHEN APPLICABLE, OWNER OPERATOR MUST FILE THE NOI FOR NPDES PERMITS AT APPROPRIATE AND/OR REQUIRED TIME FRAMES BASED UPON THE DESIRED START OF CONSTRUCTION. LAND DISTURBING ACTIVITIES MUST NOT COMMENCE UNTIL APPROVAL TO DO SO HAS BEEN RECEIVED FROM GOVERNING AUTHORITIES (INCLUDING STORMWATER POLLUTION PREVENTION PLAN). THE CONTRACTOR MUST STRICTLY ADHERE TO THE APPROVED SWPPP PLAN DURING CONSTRUCTION OPERATIONS (IF PROVIDED).
- ALL CONCRETE MUST BE AIR ENTRAINED AND INCLUDE THE MINIMUM COMPRESSIVE STRENGTH OF JURISDICTIONAL STANDARDS (PSI UNLESS OTHERWISE NOTED) UNLESS OTHERWISE NOTED. DETAILS AND GEOTECHNICAL REPORT, IF THERE ARE ANY DISCREPANCIES BETWEEN THE PLANS, DETAILS AND GEOTECHNICAL REPORT THEN THE GEOTECHNICAL REPORT SHALL GOVERN.
- THE CONTRACTOR MUST FILE SITE SIGNAGE APPLICATION OR PERMIT UNDER SEPARATE APPLICATION UNLESS DONE SO AS PART OF JURISDICTIONAL PROCEDURES.
- THE CONTRACTOR MUST REPAIR OR REPLACE (IN KIND), AT THE CONTRACTOR'S SOLE COST AND EXPENSE, ALL SIDEWALKS, CURBS, PAVEMENT MARKINGS, AND PAVEMENT DAMAGED BY CONSTRUCTION ACTIVITIES WHETHER SPECIFIED ON THIS PLAN OR NOT.
- WORK WITHIN THE RIGHT-OF-WAY MUST BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS AND STANDARDS OF THE DEPARTMENT OF PUBLIC WORKS, ENGINEERING DEPARTMENT, HIGHWAY DIVISION, AND/OR STATE DOT HIGHWAY DEPARTMENT.
- WHERE RETAINING WALLS ARE IDENTIFIED ON THE PLANS, TOP AND BOTTOM OF WALL WIDTHS DO NOT REPRESENT THE ACTUAL WIDTH OF THE PROPOSED WALL, RATHER THEY ARE AN ASSUMPTION BASED ON WALL TYPE AND WALL HEIGHT. WALL FOOTINGS AND/OR FOUNDATIONS ARE NOT IDENTIFIED HEREIN AND ARE TO BE SET/DETERMINED BY THE CONTRACTOR OR WALL DESIGNER, AND MUST BE SET BASED UPON FINAL STRUCTURAL DESIGN SHOP DRAWINGS PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED IN THE STATE WHERE THE CONSTRUCTION OCCURS. THE CONTRACTOR MUST ENSURE THAT AN APPROPRIATELY LICENSED PROFESSIONAL DESIGNER HAS REVIEWED HEREON AND PRIOR TO CONSTRUCTION. REFER TO GRADING NOTES REGARDING RETAINING WALL DESIGN.
- CONTRACTOR IS CAUTIONED OF EXISTING UTILITY SERVICES TO REMAIN IN PROXIMITY TO PROPOSED BOLLARDS AND SIGNS. CONTRACTOR MUST PROVIDE FIELD MODIFICATION LOCATIONS OF BOLLARDS AND BOLLARDS WITH SIGNAGE AS NEEDED TO AVOID CONFLICTS WITH EXISTING UTILITY SERVICES TO REMAIN.

## NEW HAMPSHIRE DRAINAGE NOTES

(Rev. 10/2025)

- WHEN THESE PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE, THE CONTRACTOR MUST EXTEND ALL UTILITY SERVICES, INCLUDING BUT NOT LIMITED TO STORM, SANITARY, UTILITIES, AND IRRIGATION LINES, TO A POINT AT LEAST FIVE (5) FEET BEYOND THE PAVED AREAS FOR WHICH THE CONTRACTOR IS RESPONSIBLE. THE CONTRACTOR MUST CAP ENDS OF INSTALLED UTILITIES AS APPROPRIATE. MARK UTILITY ENDS WITH MAGNETIC TRACER TAPE, MARK TERMINUS LOCATIONS WITH A 2 IN X 4 FT STAKE, AND MUST NOTE THE LOCATION OF ALL UTILITY STUBS ON A CLEAN COPY OF THE PLAN. THIS RECORD DOCUMENT MUST BE PREPARED IN A NEAT AND WORKMAN-LIKE MANNER AND TURNED OVER TO THE OWNER/DEVELOPER UPON COMPLETION OF THE WORK, ALL OF WHICH IS AT THE CONTRACTOR'S SOLE COST.
- STORM AND SANITARY PIPE LENGTHS INDICATED ARE NOMINAL AND ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE UNLESS INDICATED ON THE PLANS OTHERWISE.
- UNLESS CLEARLY INDICATED OTHERWISE, ALL STORM PIPE MUST BE REINFORCED CONCRETE PIPE (RCP) CLASS III WITH SILT/SOIL TIGHT JOINTS. WHEN HIGH-DENSITY POLYETHYLENE PIPE (HDPE) IS CALLED FOR ON THE PLANS, IT MUST CONFORM TO AASHTO M252 FOR PIPES 4" TO 10" AND TO AASHTO M294 FOR PIPES 12" TO 60" AND TYPE S (SMOOTH INTERIOR WITH ANGULAR CORRUGATIONS) WITH GASKET FOR SILT/SOIL TIGHT JOINT. PIPE FOR ROOF DRAIN CONNECTION MUST BE SDR 26 PVC OR SCHEDULE 40 UNLESS INDICATED OTHERWISE. HDPE PIPE JOINT GASKETS MUST BE PROVIDED AND CONFORM TO ASTM F477. DRAIN PIPE INSTALLED WITH OVER TEN (10) FEET OVER COVER AND/OR IN HIGH GROUNDWATER CONDITIONS SHALL BE SANITITE HP POLYPROPYLENE PIPE (PP), OR APPROVED EQUIVALENT.

## JURISDICTIONAL NOTES

- AN ON-SITE PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE TOWN ENGINEER OR DESIGNATED REPRESENTATIVE PRIOR TO INITIATING EARTH MOVING ACTIVITIES AND AFTER PERIMETER EROSION CONTROL MEASURES, PROTECTIVE FENCING, WASTE DISPOSAL AND CONSTRUCTION ACCESS PADS HAVE BEEN INSTALLED.
- DISTURBED SOIL AREAS THAT WILL REMAIN IDLE FOR MORE THAN 30 DAYS SHALL BE TEMPORARILY STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN FIVE DAYS FROM THE INITIAL DISTURBANCE WITH SEED AND MULCH. EROSION CONTROL BLANKETS OR CRUSHED STONE OR OTHER SUITABLE MEASURES APPROVED BY THE TOWN ENGINEER OR DESIGNATED REPRESENTATIVE. ALL DISTURBED SOIL AREAS THAT HAVE ACHIEVED FINAL GRADING SHALL BE PERMANENTLY STABILIZED WITHIN THREE DAYS FOLLOWING FINAL GRADING.
- THE TOWN ENGINEERING DEPARTMENT MAY REQUIRE A BOND OR OTHER SECURITY IN AN AMOUNT AND WITH SURETY CONDITIONS SATISFACTORY TO THE TOWN, PRIOR TO THE ACTUAL CONSTRUCTION AND INSTALLATION OF SUCH MEASURES WITHIN A PERIOD SPECIFIED BY THE TOWN AND EXPRESSED IN THE BOND OR THE SURETY.
- THE TOWN ENGINEERING DEPARTMENT MAY REQUIRE THE OWNER OR HIS/HER/ITS AUTHORIZED AGENT OR SUCCESSOR TO DEPOSIT IN ESCROW WITH THE TOWN AN AMOUNT OF MONEY SUFFICIENT TO COVER THE TOWN'S COSTS FOR INSPECTION AND ANY PROFESSIONAL ASSISTANCE REQUIRED FOR SITE COMPLIANCE MONITORING.
- THE TOWN OF HUDSON RESERVES THE RIGHT TO REQUIRE ANY ADDITIONAL EROSION CONTROL MEASURES AS NEEDED.
- OFF-SITE FILL MATERIAL.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING, CONTAINING, AND DULY REMOVING ALL CONSTITUENTS OF CONCERN BROUGHT TO THE SITE BY CONTRACTOR, SUBCONTRACTORS, SUPPLIERS, OR ANYONE ELSE FOR WHOM CONTRACTOR IS RESPONSIBLE, AND FOR ANY ASSOCIATED COSTS; AND FOR THE COSTS OF REMOVING AND REMEDIATING ANY HAZARDOUS ENVIRONMENTAL CONDITION CREATED BY THE PRESENCE OF ANY SUCH CONSTITUENTS OF CONCERN.
  - CONTRACTOR SHALL NOT IMPORT ANY FILL OVER THE AMOUNT OF TEN CUBIC YARDS CUMULATIVE TOTAL PER SOURCE TO ANY JOB SITE IN THE TOWN OF HUDSON WITHOUT SOILS TESTING VERIFYING THE ABSENCE OF ALL CONSTITUENTS OF CONCERN, AND WITHOUT PRIOR APPROVAL BY ENGINEERING DEPARTMENT STAFF. DOCUMENTATION SUCH AS TEST REPORTS, CERTIFICATIONS AND SIGN ANALYZES OF FILL SHALL BE PROVIDED TO THE ENGINEERING DEPARTMENT FOR APPROVAL PRIOR TO TRANSPORTING THE MATERIAL TO HUDSON.

## APPROVAL BLOCK

APPROVED BY THE HUDSON, NH PLANNING BOARD  
DATE OF MEETING: \_\_\_\_\_

PLANNING BOARD CHAIRMAN	SIGNATURE DATE
PLANNING BOARD SECRETARY	SIGNATURE DATE

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

## NEW HAMPSHIRE GRADING NOTES

(Rev. 10/2025)

- PROPOSED TOP OF CURB ELEVATIONS ARE GENERALLY SIX (6) INCHES ABOVE PAVEMENT GRADE UNLESS OTHERWISE NOTED.
- THE CONTRACTOR MUST CONFIRM AND ENSURE THAT AS CONSTRUCTED, IMPROVEMENTS CREATE THE FOLLOWING MINIMUM SLOPES (EXCEPT WHERE ADA REQUIREMENTS LIMIT THEM): 1.0% ON ALL CONCRETE SURFACES, 1.5% ON ASPHALT SURFACES, 1.5% IN LANDSCAPED AREAS AND 0.75% SLOPE AGAINST ALL ISLANDS, GUTTERS, AND CURBS TO PROVIDE POSITIVE DRAINAGE.
- WHERE RETAINING WALLS ARE IDENTIFIED ON THE PLANS, TOP AND BOTTOM OF WALL ELEVATIONS (GH & GL) REPRESENT THE PROPOSED FINISHED GRADE AT THE FACE OF THE TOP AND THE BOTTOM OF THE WALL, AND DO NOT REPRESENT THE OVERALL HEIGHT OF THE WALL TO ITS EXTENTS (IE. ANY CAP UNITS OR COURSES BELOW GRADE INCLUDING FOOTINGS ARE EXCLUDED). WALL FOOTINGS/FOUNDATION ELEVATIONS ARE NOT IDENTIFIED HEREIN AND ARE TO BE SET/DETERMINED BY THE CONTRACTOR OR WALL DESIGNER, AND MUST BE SET BASED UPON FINAL STRUCTURAL DESIGN SHOP DRAWINGS PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED IN THE STATE WHERE THE CONSTRUCTION OCCURS. THE CONTRACTOR MUST ENSURE THAT THERE ARE NO UTILITIES ON THE PASSIVE SIDE OF THE RETAINING WALL. NO EXCAVATION MAY BE PERFORMED ON THE PASSIVE SIDE OF THE RETAINING WALL WITHOUT APPROPRIATELY AND SAFELY SUPPORTING THE WALL. IN ACCORDANCE WITH THE STANDARD OF CARE AND ALL APPLICABLE RULES, REGULATIONS, CODES, ORDINANCES, LAWS AND STATUTES.
- MSE OR GRAVITY BLOCK WALLS MUST BE CONSTRUCTED SUCH THAT UPON COMPLETION OF CONSTRUCTION THERE IS NO UNFINISHED SURFACE OR LIFTING RINGS VISIBLE (E.G. USE OF FINISHED TOP BLOCK OR CAP STONES).
- STORMWATER RUNOFF WITHIN PROPERTY MUST BE COLLECTED ON-SITE WITH NO OVERLAND RUNOFF ONTO THE RIGHT-OF-WAY OR ADJACENT PROPERTIES TO THE MAXIMUM EXTENT POSSIBLE OR IN THE MANNER SHOWN ON THE CONSTRUCTION DRAWINGS. STORMWATER RUNOFF ONTO ADJACENT PROPERTIES MUST BE CONTROLLED AS TO NOT ADVERSELY IMPACT SAID PROPERTIES.
- BEFORE COMMENCING GRADING WORK, CONTRACTOR MUST SUBMIT SAMPLES OF ALL NATIVE AND IMPORTED MATERIALS WITHIN THEIR RESPECTIVE JURISDICTIONS TO THE GEOTECHNICAL ENGINEER OF RECORD.
- REFER TO GENERAL NOTES SHEET FOR ADDITIONAL ADA GUIDELINES AND REQUIREMENTS.
- FOR ALL RETAINING WALLS FOUR (4) FEET OR GREATER IN HEIGHT (HEIGHT AS DEFINED IN INTERNATIONAL BUILDING CODE AND STATE BUILDING CODE).
  - THE OWNER OR THE DESIGNER SHALL BE RESPONSIBLE TO PROVIDE A SITE-SPECIFIC RETAINING WALL DESIGN PREPARED BY THE APPROPRIATE PROFESSIONAL LICENSED (E.G. STRUCTURAL ENGINEER) IN THE STATE WHERE THE CONSTRUCTION OCCURS. SOIL TYPES, WATER TABLE ELEVATION, EXISTING & PROPOSED SURROUNDING IMPROVEMENTS/CONDITIONS (INCLUDING BUT NOT LIMITED TO SLOPES, DRIVE AISLES, ROADS, FENCING, GUIDEWALKS, UTILITIES, DRAINAGE FACILITIES, STRUCTURES, FOUNDATIONS), LIVE LOADS AND OTHER SITE AMENITIES THAT HAVE AN INFLUENCE OR IMPACT ON THE RETAINING WALL'S CONSTRUCTIBILITY AND/OR LONGEVITY MUST BE CONSIDERED AND INCORPORATED INTO THE RETAINING WALL DESIGN AS WELL AS THE GLOBAL STABILITY ANALYSIS.
  - PEER REVIEW AND GLOBAL STABILITY ANALYSIS OF THE RETAINING WALL DESIGN MUST BE COMPLETED BY THE OWNER'S GEOTECHNICAL ENGINEER TO CERTIFY THAT THE DESIGN MEETS INDUSTRY STANDARDS FOR FACTOR OF SAFETY. SOIL TYPES, WATER TABLE ELEVATION AND DESIGN PROPERTIES AS NOTED ABOVE MUST BE FIELD CONFIRMED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO WALL CONSTRUCTION.
- CONTRACTOR SHALL INSTALL CURB ALONG FACE OF BUILDING / WALL AS SHOWN TO PROVIDE CONSISTENT WIDTH ALONG LENGTH OF PROPOSED ACCESSIBLE RAMP AND RAMP LANDING TO MEET ADA/ABAB REQUIREMENTS.
- CONTRACTOR MUST REVIEW RETAINING WALL LOCATIONS VERSUS APPLICABLE STATE AND LOCAL CODES AND PROVIDE FALL PROTECTION (E.G. FENCING OR RAILING) IN ACCORDANCE WITH SAID CODE.
- CONTRACTOR MUST COORDINATE WITH UTILITY PROVIDER TO REVIEW EXISTING DEPRESSIONS WITHIN EXISTING PAVEMENT AREAS TO REMAIN AND MUST CONFIRM THAT THE SCOPE OF WORK SHALL PROVIDE POSITIVE DRAINAGE BY FIXING ANY EXISTING AREAS OF PONDING.

## NEW HAMPSHIRE UTILITY NOTES

(Rev. 10/2025)

- THE CONTRACTOR'S PRICE FOR WATER AND SEWER SERVICE INSTALLATIONS MUST INCLUDE ALL FEES, COSTS, AND APPURTENANCES (INCLUDING BUT NOT LIMITED TO PERMITS, INSPECTIONS, TESTING, DISINFECTING, INSPECTIONS, ROAD OPENING & BACKFILL REQUIREMENTS, TRAFFIC CONTROL AND SURETY BONDS AS DEFINED BY THE PROVIDER (AND OTHER AGENCIES HAVING JURISDICTION OVER THE WORK).
- ALL WORK ASSOCIATED WITH UTILITY POLES, OVERHEAD WIRES AND ANY/ALL APPURTENANCES MUST BE COORDINATED BY THE CONTRACTOR WITH THE LOCAL UTILITY COMPANIES PRIOR TO THE ORDERING OF ANY MATERIALS. THIS MAY INCLUDE BUT IS NOT LIMITED TO THE REMOVAL, INSTALLATION, RELOCATION OR PROTECTION OF ANY BRACING, GUY WIRES, OVERHEAD WIRE, ETC. AS MAY BE REQUIRED TO ACCOMMODATE THE PROJECT.
- SEWERS CONVEYING SANITARY FLOW, OR INDUSTRIAL FLOW MUST BE SEPARATED FROM WATER MAINS BY A DISTANCE OF AT LEAST TEN (10) FEET HORIZONTALLY. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE PIPES MUST, AT A MINIMUM, BE IN SEPARATE TRENCHES WITH THE AT LEAST 18 INCHES OF VERTICAL SEPARATION FROM THE BOTTOM OF THE WATER MAIN TO THE TOP OF THE SEWER LINE, WHERE APPROPRIATE SEPARATION FROM A WATER MAIN IS NOT POSSIBLE, THE SEWER MUST BE ENCASED IN CONCRETE, OR CONSTRUCTED OF DUCTILE IRON PIPE USING MECHANICAL OR SLIP-ON JOINTS FOR A DISTANCE OF AT LEAST 10 FEET ON EITHER SIDE OF THE CROSSING. IN ADDITION, ONE FULL LENGTH OF SEWER PIPE SHOULD BE LOCATED SO BOTH JOINTS WILL BE AS FAR FROM THE WATER LINE AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SANITARY SEWER, ADEQUATE STRUCTURAL SUPPORT FOR THE SANITARY SEWER MUST BE PROVIDED. ALL CROSSINGS MUST BE IN ACCORDANCE WITH JURISDICTIONAL PERMITTING/UTILITY AUTHORITIES REGULATIONS.
- WHEN THESE PLANS INVOLVE MULTIPLE BUILDINGS, SOME OF WHICH MAY BE BUILT AT A LATER DATE, THE CONTRACTOR MUST EXTEND ALL UTILITY SERVICES, INCLUDING BUT NOT LIMITED TO STORM, SANITARY, UTILITIES, AND IRRIGATION LINES, TO A POINT AT LEAST FIVE (5) FEET BEYOND THE PAVED AREAS FOR WHICH THE CONTRACTOR IS RESPONSIBLE. THE CONTRACTOR MUST CAP ENDS OF INSTALLED UTILITIES AS APPROPRIATE. MARK UTILITY ENDS WITH MAGNETIC TRACER TAPE, MARK TERMINUS LOCATIONS WITH A 2 IN X 4 FT STAKE, AND MUST NOTE THE LOCATION OF ALL UTILITY STUBS ON A CLEAN COPY OF THE PLAN. THIS RECORD DOCUMENT MUST BE PREPARED IN A NEAT AND WORKMAN-LIKE MANNER AND TURNED OVER TO THE OWNER/DEVELOPER UPON COMPLETION OF THE WORK, ALL OF WHICH IS AT THE CONTRACTOR'S SOLE COST.
- UNLESS INDICATED OTHERWISE, ALL NEW UTILITIES/SERVICES, INCLUDING ELECTRIC, TELEPHONE, CABLE TV, ETC., MUST BE INSTALLED UNDERGROUND. ALL NEW UTILITY SERVICES MUST BE INSTALLED IN ACCORDANCE WITH THE UTILITY SERVICE PROVIDER INSTALLATION SPECIFICATIONS AND STANDARDS.
- CONTRACTOR MUST BE AWARE THAT THE FOLLOWING ARE THE STANDARD REQUIREMENTS INDICATED OTHERWISE. SANITARY LATERAL(S) MUST BE PVC SDR 26 UNLESS CLEARLY INDICATED OTHERWISE.
  - UNLESS CLEARLY INDICATED OTHERWISE ALL SANITARY PIPE MUST BE:
    - FOR PIPES LESS THAN TWELVE (12) FEET DEEP: POLYVINYL CHLORIDE (PVC) SDR 35 PER ASTM D3034.
    - FOR PIPES GREATER THAN TWELVE (12) FEET DEEP: POLYVINYL CHLORIDE (PVC) SDR 35 PER ASTM D3034.
    - UNLESS LOCAL OR STATE BUILDING / PLUMBING CODE CLEARLY SPECIFIES DIFFERENTLY, SANITARY LATERALS MUST BE PVC SDR 26.
  - FOR ALL UTILITY PIPING (INCLUDING DRAIN) WITHIN TEN (10) FEET OF A BUILDING, PIPE MATERIAL MUST COMPLY WITH APPLICABLE LOCAL OR STATE BUILDING AND PLUMBING CODES. CONTRACTOR MUST REFER TO PLUMBING ENGINEERING PLANS AND VERIFY PIPE MATERIAL WITH LOCAL OFFICIAL PRIOR TO ORDERING OF MATERIALS.
- CONTRACTOR MUST VERIFY THE CONNECTION OF EXTERIOR PIPING TO ANY FIXTURES (SUCH AS AN EXTERIOR GREASE INTERCEPTOR) OR OTHER DRAINAGE SYSTEMS WITH LOCAL OFFICIALS FOR COMPLIANCE WITH APPLICABLE LOCAL OR STATE BUILDING AND PLUMBING CODES PRIOR TO ORDERING OF MATERIALS.
- WATER MAIN PIPING MUST BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS AND SPECIFICATIONS OF THE LOCAL WATER COMPANY. IN THE ABSENCE OF SUCH REQUIREMENTS, WATER MAIN PIPING MUST BE CEMENT-LINED DUCTILE IRON (DI) MINIMUM CLASS 52 THICKNESS. ALL PIPE AND APPURTENANCES MUST COMPLY WITH THE APPLICABLE AWWA STANDARD EFFECT AT THE TIME OF APPLICATION.
- GAS METERS MUST BE PROTECTED AS REQUIRED BY THE JURISDICTIONAL GAS PROVIDER.
- TRANSFORMERS AND SWITCH GEARS: GC MUST PROVIDE ALL APPURTENANCES IN ACCORDANCE WITH UTILITY COMPANY SPECIFICATIONS AND CARRY SAME IN BASE BID. APPURTENANCES SHALL INCLUDE, BUT NOT BE LIMITED TO: THE CONCRETE PAD, SECONDARY SPILL CONTAINMENT AREAS (IF REQUIRED), BOLLARD / VEHICULAR PROTECTION, AND OTHER ITEMS AS MAY BE REQUIRED BY THE UTILITY PROVIDER FOR INSTALLATION OF THE TRANSFORMER AND SWITCH GEAR (IF REQUIRED). GC MUST COORDINATE ALL ASPECTS OF INSTALLATION WITH UTILITY PROVIDER PRIOR TO ORDERING OF MATERIALS AND NOTIFY DESIGN ENGINEER OF ANY CONFLICTS IN WRITING.

## GREEN SNO-PRO NOTES

WINTER MAINTENANCE SHALL BE PERFORMED BY A GREEN SNO-PRO CERTIFIED CONTRACTOR OF FUNCTIONAL EQUIVALENT CERTIFICATION. NO SALT OR CHEMICAL DE-ICERS ARE TO BE USED FOR WINTER MAINTENANCE.

## CONSERVATION COMMISSION NOTES

- DURING CONSTRUCTION AND RESTORATION EROSION CONTROL BARRIERS SHALL BE INSTALLED AND MAINTAINED TO THE SATISFACTION OF THE TOWN ENGINEER, ALONG THE LIMITS OF DISTURBANCE WITHIN, AND/OR ADJACENT TO, ANY WETLAND(S) AND/OR WETLAND BUFFER(S).
- CONSTRUCTION VEHICLES (NON-FUELING VEHICLES) SHALL NOT BE PARKED WITHIN TWENTY-FIVE (25) FEET OF ANY WETLAND OR WETLAND BUFFER BOUNDARIES OVERNIGHT.
- REFUELING VEHICLES SHALL NOT BE PARKED OVERNIGHT OR LEFT UNATTENDED WITHIN SEVENTY-FIVE (75) FEET OF ANY WETLAND OR WETLAND BUFFER BOUNDARIES.
- STOCKPILES OF CONSTRUCTION MATERIALS IS NOT ALLOWED WITHIN THE WETLAND OR WETLAND BUFFER AREAS OF THE SITE OR IN AREAS DESIGNATED FOR PERMANENT CONSERVATION.
- ANY VEGETATION ASSOCIATED WITH POST-CONSTRUCTION BMPs AND SLOPE RESTORATION INCLUDING STORM WATER MANAGEMENT AREAS SHALL BE SUITABLY ESTABLISHED TO WITHSTAND EROSION AND SHALL BE INSPECTED BY THE TOWN ENGINEER AND THE PROPERTY OWNER SHALL BE REQUIRED TO PROVIDE A SUITABLE REPLACEMENT FOR ANY VEGETATION NOT SUITABLY ESTABLISHED DURING THE RELEVANT MONITORING PERIOD.
- FERTILIZERS UTILIZED FOR LANDSCAPING AND LAWN CARE SHALL BE SLOW RELEASE, LOW-NITROGEN TYPES (<5%), AND SHALL NOT BE USED WITHIN SEVENTY-FIVE (75) FEET OF WETLAND RESOURCE AREAS. PESTICIDES AND HERBICIDES SHALL NOT BE USED WITHIN SEVENTY-FIVE (75) FEET OF A WETLAND RESOURCE AREA.

## ALTERATION OF TERRAIN EROSION CONTROL NOTE

(Rev. 9/2025)

- PERIMETER CONTROLS MUST BE INSTALLED PRIOR TO EARTH MOVING OPERATIONS.
- STORMWATER TREATMENT PONDS AND DRAINAGE SWALES MUST BE INSTALLED BEFORE ROUGH GRADING THE SITE.
- RUNOFF MUST BE DIRECTED TO TEMPORARY PRACTICES UNTIL STORMWATER BMPs ARE STABILIZED.
- BASINS, DITCHES AND SWALES MUST BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
- ROADWAYS AND PARKING AREAS MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- CUT AND FILL SLOPES MUST BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
- ALL AREAS OF UNSTABILIZED SOIL MUST BE STABILIZED AS SOON AS PRACTICABLE BUT NO LATER THAN 30 DAYS AFTER INITIAL DISTURBANCE.
- EROSION CONTROL PRACTICES MUST BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY RAIN EVENT OF 0.5 INCH OR MORE.
- IN AREAS THAT WILL NOT BE PAVED, "STABLE" MEANS THAT:
  - A MINIMUM OF 85% VEGETATIVE COVER HAS BEEN ESTABLISHED;
  - A MINIMUM OF 3 INCHES OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED; OR
  - EROSION CONTROL BLANKETS HAVE BEEN INSTALLED IN ACCORDANCE WITH EN-W-60 1506.03.
- IN AREAS TO BE PAVED, "STABLE" MEANS THAT BASE COURSE GRAVELS MEETING THE REQUIREMENTS OF MHDOT STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2016, ITEM 304.4 HAVE BEEN INSTALLED.

## STANDARD WINTER NOTES

- ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING. ELSEWHERE, THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT 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.
- AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING SURFACES WHERE WORK HAS STOPPED FOR THE WINTER SEASON SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER MHDOT ITEM 304.3. THE PROJECT MUST BE MANAGED TO MEET THE REQUIREMENTS AND INTENT OF RSA 430:53 AND AGR 3800 RELATIVE TO INVASIVE SPECIES.
- THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION, BUT IN NO CASE SHALL EXCEED 5 ACRES AT ANY ONE TIME BEFORE DISTURBED AREAS ARE STABILIZED.

## ALTERATION OF TERRAIN BLASTING NOTE

(Rev. 3/2025)

MUNICIPAL BLASTING ORDINANCES TYPICALLY STIPULATE REQUIREMENTS FOR MANY ISSUES ASSOCIATED WITH BLASTING INCLUDING SAFETY REQUIREMENTS AND THE PROTECTION OF STRUCTURES. THE LANGUAGE BELOW IS INTENDED TO ONLY ADDRESS WATER RESOURCE PROTECTION. MUNICIPALITIES MAY SEEK TECHNICAL AND LEGAL ASSISTANCE, AND REVIEW BLASTING ORDINANCES IN OTHER MUNICIPALITIES TO ADDRESS OTHER ASPECTS OF BLASTING THAT ARE NOT ADDRESSED IN THE LANGUAGE BELOW.

BEST MANAGEMENT PRACTICES FOR BLASTING. ALL ACTIVITIES RELATED TO BLASTING SHALL FOLLOW BEST MANAGEMENT PRACTICES (BMPs) TO PREVENT CONTAMINATION OF GROUNDWATER INCLUDING PREPARING, REVIEWING AND FOLLOWING AN APPROVED BLASTING PLAN; PROPER DRILLING, EXPLOSIVE HANDLING AND LOADING PROCEDURES; OBSERVING THE ENTIRE BLASTING PROCEDURES; EVALUATING BLASTING PERFORMANCE; AND HANDLING AND STORAGE OF BLASTED ROCK.

- LOADING PRACTICES. THE FOLLOWING BLASTHOLE LOADING PRACTICES TO MINIMIZE ENVIRONMENTAL EFFECTS SHALL BE FOLLOWED:
  - DRILLING LOGS SHALL BE MAINTAINED BY THE DRILLER AND COMMUNICATED DIRECTLY TO THE BLASTER. THE LOGS SHALL INDICATE DEPTHS AND LENGTHS OF VOIDS, CAVITIES, AND FAULT ZONES OR OTHER WEAK ZONES ENCOUNTERED AS WELL AS GROUNDWATER CONDITIONS.
  - EXPLOSIVE PRODUCTS SHALL BE STORED IN AREAS THAT ARE EITHER USED IN THE BOREHOLE, RETURNED TO THE DELIVERY VEHICLE, OR PLACED IN SECURE CONTAINERS FOR OFF-SITE DISPOSAL.
  - SPILLAGE AROUND THE BOREHOLE SHALL EITHER BE PLACED IN THE BOREHOLE OR CLEANED UP AND RETURNED TO AN APPROPRIATE VEHICLE FOR HANDLING OR PLACEMENT IN SECURED CONTAINERS FOR OFF-SITE DISPOSAL.
  - LOADED EXPLOSIVES SHALL BE DETONATED AS SOON AS POSSIBLE AND SHALL NOT BE LEFT IN THE BLASTHOLES OVERNIGHT, UNLESS WEATHER OR OTHER SAFETY CONCERNS REASONABLY DICTATE THAT DETONATION SHOULD BE POSTPONED.
  - LOADING EQUIPMENT SHALL BE CLEANED IN AN AREA WHERE WASTEWATER CAN BE PROPERLY CONTAINED AND HANDLED IN A MANNER THAT PREVENTS RELEASE OF CONTAMINANTS TO THE ENVIRONMENT.
  - EXPLOSIVES SHALL BE LOADED TO MAINTAIN GOOD CONTINUITY IN THE COLUMN LOAD TO PROMOTE COMPLETE DETONATION. INDUSTRY ACCEPTED LOADING PRACTICES FOR PRIMING, STEMMING, DECKING AND COLUMN RISE NEED TO BE ATTENDED TO.
- EXPLOSIVE SELECTION. THE FOLLOWING BMPs SHALL BE FOLLOWED TO REDUCE THE POTENTIAL FOR GROUNDWATER CONTAMINATION WHEN EXPLOSIVES ARE USED:
  - EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT ARE APPROPRIATE FOR SITE CONDITIONS AND SAFE BLAST EXECUTION.
  - EXPLOSIVE PRODUCTS SHALL BE SELECTED THAT HAVE THE APPROPRIATE WATER RESISTANCE FOR THE SITE CONDITIONS PRESENT TO MINIMIZE THE POTENTIAL FOR HAZARDOUS EFFECT OF THE PRODUCT UPON GROUNDWATER.
- PREVENTION OF MISFIRES. APPROPRIATE PRACTICES SHALL BE DEVELOPED AND IMPLEMENTED TO PREVENT MISFIRES.
  - MUCK PILE MANAGEMENT. MUCK PILES (THE BLASTED PIECES OF ROCK) AND ROCK PILES SHALL BE MANAGED IN A MANNER TO REDUCE THE POTENTIAL FOR CONTAMINATION BY IMPLEMENTING THE FOLLOWING MEASURES:
    - REMOVE THE MUCK PILE FROM THE BLAST AREA AS SOON AS REASONABLY POSSIBLE.
    - MANAGE THE INTERACTION OF BLASTED ROCK PILES AND STORMWATER TO PREVENT CONTAMINATION OF WATER SUPPLY WELLS OR SURFACE WATER.
  - SPILL PREVENTION MEASURES AND SPILL MITIGATION. SPILL PREVENTION AND SPILL MITIGATION MEASURES SHALL BE IMPLEMENTED TO PREVENT THE RELEASE OF FUEL AND OTHER RELATED SUBSTANCES TO THE ENVIRONMENT. THE MEASURES SHALL INCLUDE AT A MINIMUM:
    - THE FUEL STORAGE REQUIREMENTS SHALL INCLUDE:
      - STORAGE OF REGULATED SUBSTANCES ON AN IMPERVIOUS SURFACE.
      - SECURE STORAGE AREAS AGAINST UNAUTHORIZED ENTRY.
      - LABEL REGULATED CONTAINERS CLEARLY AND VISIBLY.
      - INSPECT STORAGE AREAS WEEKLY.
      - COVER REGULATED CONTAINERS IN OUTSIDE STORAGE AREAS.
      - WHEREVER POSSIBLE, KEEP REGULATED CONTAINERS THAT ARE STORED OUTSIDE MORE THAN 50 FEET FROM SURFACE WATER AND STORM DRAINS, 75 FEET FROM PRIVATE WELLS, AND 400 FEET FROM PUBLIC WELLS.
    - SECONDARY CONTAINMENT IS REQUIRED FOR CONTAINERS CONTAINING REGULATED SUBSTANCES STORED OUTSIDE, EXCEPT FOR ON PREMISE USE HEATING FUEL TANKS, OR ABOVEGROUND OR UNDERGROUND STORAGE TANKS OTHERWISE REGULATED.
  - THE FUEL HANDLING REQUIREMENTS SHALL INCLUDE:
    - EXCEPT WHEN IN USE, KEEP CONTAINERS CONTAINING REGULATED SUBSTANCES CLOSED AND SEALED.
    - PLACE DRIP PANS UNDER SPIGOTS, VALVES, AND PUMPS.
    - HAVE SPILL CONTROL AND CONTAINMENT EQUIPMENT READILY AVAILABLE IN ALL WORK AREAS.
    - USE FUNNELS AND DRIP PANS WHEN TRANSFERRING REGULATED SUBSTANCES.
    - PERFORM TRANSFERS OF REGULATED SUBSTANCES OVER AN IMPERVIOUS SURFACE.
- THE TRAINING OF ON-SITE EMPLOYEES AND THE ON-SITE POSTING OF RELEASE RESPONSE INFORMATION DESCRIBING WHAT TO DO IN THE EVENT OF A SPILL OF REGULATED SUBSTANCES.
- FUELING AND MAINTENANCE OF EXCAVATION, EARTHMOVING AND OTHER CONSTRUCTION RELATED EQUIPMENT WILL COMPLY WITH THE REGULATIONS OF THE NEW HAMPSHIRE DEPARTMENT OF ENVIRONMENTAL SERVICES (NOTE THESE REQUIREMENTS ARE SUMMARIZED IN WD-DWGB-22-6 BEST MANAGEMENT PRACTICES FOR FUELING AND MAINTENANCE OF EXCAVATION AND EARTHMOVING EQUIPMENT" OR ITS SUCCESSOR DOCUMENT.

## STANDARD ABBREVIATIONS

### FOR ENTIRE PLAN SET

AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
AC	ACRE / ACRES
AD	AREA DRAIN
ADA	ACCESSIBLE / AMERICANS WITH DISABILITIES ACT
AG	ABOVE GROUND
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
ASSF	AREA SUBJECT TO STORMWATER FLOWAGE
ASSOC	ASSOCIATION
BC	BOTTOM OF CURB
BF	BASEMENT FLOOR
BIO	BIOGARDEN
BIT	BITUMINOUS
BK	BLOCK
BL	BASELINE
BLDG	BUILDING
BM	BENCH MARK
BRL	BUILDING RESTRICTION LINE
BV/W	BORDERING VEGETATIVE WETLAND
CB	CATCH BASIN
CF	CUBIC FEET
CI	CURB INLET
CIT	CHANGE IN TYPE
CL	CENTER LINE
CMP	CORRUGATED METAL PIPE
CIO	CLEAN OUT
CONC	CONCRETE
CONN	CONNECTION
COORD	COORDINATE
CPP	CORRUGATED PLASTIC PIPE
CY	CUBIC YARD
DEC	DECORATIVE
DEP	DEPARTMENT OF ENVIRONMENTAL PROTECTION
DET	DETENTION
DIA	DIAMETER
DMH	DRAINAGE MANHOLE
DOM	DOMESTIC
DOT	DEPARTMENT OF TRANSPORTATION
DP	DESIGN POINT
DWL	DASHED WHITE LINE
DYL	DOUBLE YELLOW LINE
EG	EXISTING GRADE
ELEC	ELECTRIC
ELEV	ELEVATION
EOR	ENGINEER OF RECORD
EP / EOP	EDGE OF PAVEMENT
ES / EOS	EDGE OF SHOULDER
EW	END WALL
EX	EXISTING
FDC	FIRE DEPARTMENT CONNECTION
FEMA	FEDERAL EMERGENCY MANAGEMENT AGENCY
FES	FLARED END SECTION
FF	FINISH / FIRST FLOOR
FFE	FINISH / FIRST FLOOR ELEVATION
FG	FINISH GRADE
FH	FIRE HYDRANT
FM	FORCE MAIN
FO	FIBER OPTIC
G	GRADE
GC	GENERAL CONTRACTOR
GEO	GEOTECH/GEOTECHNICAL
GF / GFE	GARAGE FLOOR ELEVATION (AT DOOR)
GFA	GROSS FLOOR AREA
GH	GRADE HIGH (WALL)
GL	GRADE LOW (WALL)
GRT	GRATE
GT	GREASE TRAP
GV	GATE VALVE
HDPE	HIGH DENSITY POLYETHYLENE
HOR	HORIZONTAL
HP	HIGH POINT
HW	HEADWALL
ICS	INLET CONTROL STRUCTURE
INF	INFILTRATION
INT	INTERSECTION
INV	INVERT
LF	LINEAR FOOT
LOC	LIMIT OF CLEARING
LOD	LIMIT OF DISTURBANCE
LOS	LINE OF SIGHT
LOW	LIMIT OF WORK

LP	LOW POINT
LS	LANDSCAPE
LSA	LANDSCAPE AREA
LAX	MAXIMUM
ME	MATCH EXISTING
MEP	MECHANICAL, ELECTRICAL, AND PLUMBING
MH	MANHOLE
MIN	MINIMUM
MJ	MECHANICAL JOINT
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
NOAA	NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NRCS	NATIONAL RESOURCE CONSERVATION SERVICE
O&M	OPERATIONS AND MAINTENANCE
OC	ON CENTER
OCS	OUTLET CONTROL STRUCTURE
OGS	OIL AND GRIT SEPARATOR
ORD	ORDINANCE
PA / POA	POINT OF ANALYSIS
PC	POINT OF CURVATURE
PCR	POINT OF CURVATURE, CURB RETURN
PERF	PERFORATED
PG	PROPOSED GRADE
PI	POINT OF INTERSECTION
POG	POINT OF GRADE
PP	POLYPROPYLENE PIPE
PROP	PROPOSED
PT	POINT OF TANGENCY
PTCR	POINT OF TANGENCY, CURB RETURN
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS / RADII
RW	RIGHT-OF-WAY / RIGHTS-OF-WAY
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REGS	REGULATIONS
RELO	TO BE RELOCATED
REQ	REQUIRED
RET	RETENTION
RET WALL	RETAINING WALL
RETO	TO BE RETURNED TO OWNER
RG	RAIN GARDEN
S	SLOPE
SAN	SANITARY SEWER
SESC	SOIL EROSION AND SEDIMENT CONTROL
SF	SQUARE FEET
SHLO	STATE HIGHWAY LAYOUT
SMH	SANITARY MANHOLE
STA	STATION
STM	STORM WATER / STORM SEWER
SWL	SINGLE/SOLID WHITE LINE
SWPPP	STORMWATER POLLUTION PREVENTION PLAN
TBA	TO BE ABANDONED
TBR	TO BE REMOVED
TBV	TO BE VACATED
TC	TOP OF CURB
Tc	TIME OF CONCENTRATION
TD	TRENCH DRAIN
TELE	TELECOMMUNICATIONS / TELEDATA
TPF	TREE PROTECTION FENCE
TR	TO REMAIN



# LOWELL ROAD

## ZONING INFORMATION

ZONING DISTRICT:	GENERAL ONE ZONE (G-1) & WETLAND CONSERVATION DISTRICT		
ZONE CRITERIA	REQUIRED	EXISTING	PROPOSED
MINIMUM LOT AREA	87,120 SF	457,281 SF	NO CHANGE
MIN. FRONT SETBACK	50 FT	N/A	168.8 FT
MIN. SIDE SETBACK	15 FT	N/A	64.8 FT
MIN. REAR SETBACK	15 FT	N/A	382.2 FT
MAX. BUILDING HEIGHT	38 FT	N/A	36 FT
INTERIOR LANDSCAPING	10%	N/A	11.3%
OPEN SPACE	40%	N/A	66.0 %
LOT COVERAGE	N/S	N/A	34.0%
LOADING SPACES	5	N/A	4 (W)
PARKING SPACES	250	N/A	166 (W)
PARKING CRITERIA 10X20**	RETAIL BUSINESS USE: REQUIREMENT = 1 SPACES/200 SF GFA CALCULATION REQUIRED: 50,000 / 200 = 250		
ACCESSIBLE PARKING SPACES	6	N/A	5 STANDARD 1 VAN
ACCESSIBLE PARKING CRITERIA	TOTAL PARKING 151 TO 200 = 6 VAN ACCESSIBLE SPACES= 1 PER 6 SPACES = 1		

N/A: NOT APPLICABLE  
W: WAIVER REQUESTED  
\*\* PROPOSED SPACES CONSIST OF BOTH 9'X18' & 10'X20' SEE REQUESTED WAIVERS.



**BOHLER**  
SITE CIVIL AND CONSULTING ENGINEERING  
LAND SURVEYING  
PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

### REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/24/2026	TOWN & PEER REVIEW COMMENTS	MJW	KWC
2	05/12/2026	TOWN COMMENTS	MJW	KWC



**811**  
Know what's below.  
Call before you dig.  
ALWAYS CALL 811  
It's fast. It's free. It's the law.

## PERMIT SET

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: NHA250020.01-2A  
DRAWN BY: MJW  
CHECKED BY: KWC  
DATE: 01/23/2026  
CAD I.D.: P-CIVIL-PROP

### SITE DEVELOPMENT PLANS

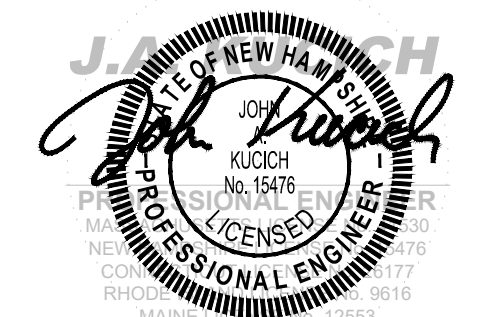
FOR  


PROPOSED RESTAURANT DEPOT

273 LOWELL ROAD  
HUDSON, NEW HAMPSHIRE  
PARCEL ID: 234-034-000



**BOHLER**  
3 EXECUTIVE PARK DRIVE FLOOR 2  
BEDFORD, NH 03110  
Phone: (603) 441-2900  
www.BohlerEngineering.com

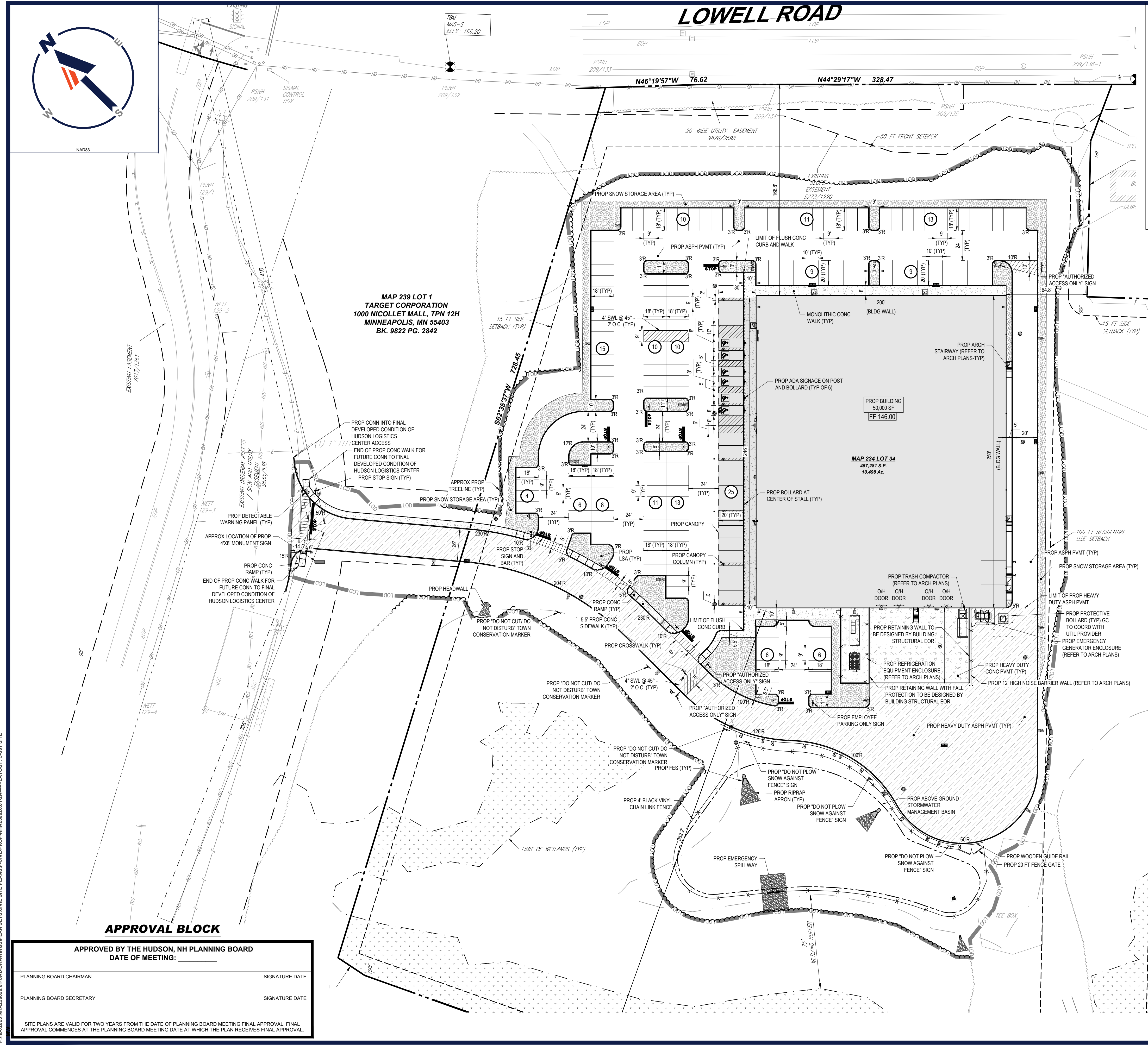


Professional Engineer Seal for John J. ...

SHEET TITLE:  
**SITE PLAN**

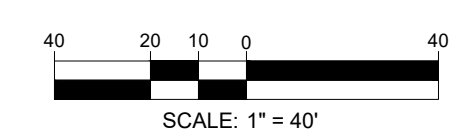
SHEET NUMBER:  
**C-301**

REVISION 2 - 05/12/2026



**TRASH REMOVAL AS NEEDED  
BASED ON TANK GAUGE**

**THIS PLAN TO BE UTILIZED  
FOR SITE LAYOUT PURPOSES  
ONLY**



### APPROVAL BLOCK

APPROVED BY THE HUDSON, NH PLANNING BOARD  
DATE OF MEETING: \_\_\_\_\_

PLANNING BOARD CHAIRMAN	SIGNATURE DATE
PLANNING BOARD SECRETARY	SIGNATURE DATE

SITE PLANS ARE VALID FOR TWO YEARS 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.

May 11, 2026 P:\M\2025\NHA250020.01\CADD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\CIVIL-PROP-NHA250020.01-2A-LAYOUT-C-301 SITE



# LOWELL ROAD

MAP 237 LOT 37  
 MACTHOMPSON REALTY  
 INC.  
 3 MARMON DRIVE  
 NASHUA, N.H. 03060  
 BK. 9666 PG. 2868

MAP 234 LOT 33  
 277 LOWELL ROAD  
 LLC  
 277 LOWELL ROAD  
 HUDSON, N.H. 03051  
 BK. 9688 PG. 2461

MAP 234 LOT 14  
 DON R. & MELISSA E.  
 WONG  
 18 LINDA STREET  
 HUDSON, N.H. 03051  
 BK. 7862 PG. 478

MAP 234 LOT 13  
 ROY CARROLL  
 CARROLL REVOCABLE  
 TRUST  
 16 LINDA STREET  
 HUDSON, N.H. 03051  
 BK. 9735 PG. 679

MAP 234 LOT 12  
 MARK TEMPEST  
 KRIS MARCOCCIO  
 12 LINDA STREET  
 HUDSON, N.H.  
 03051  
 BK. 9228 PG. 2048

MAP 239 LOT 1  
 TARGET CORPORATION  
 1000 NICOLLET MALL, TPN 12H  
 MINNEAPOLIS, MN 55403  
 BK. 9822 PG. 2842

PROP ACCESSIBLE AREA SHALL BE 2.0% MAX IN ALL DIRECTIONS (TYP)  
 PROP ACCESSIBLE ROUTE SHALL BE 5.0% MAX IN RUNNING  
 SLOPE AND 2.0% MAX IN CROSS SLOPE (TYP)

PROP ACCESSIBLE ROUTE SHALL BE  
 5.0% MAX IN RUNNING SLOPE AND  
 2.0% MAX IN CROSS SLOPE (TYP)

PROP ABOVE GROUND  
 STORMWATER  
 MANAGEMENT BASIN  
 TOP OF BERM: 140.75  
 BOTTOM OF BASIN: 136.7

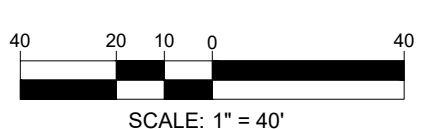
## APPROVAL BLOCK

APPROVED BY THE HUDSON, NH PLANNING BOARD  
 DATE OF MEETING: \_\_\_\_\_

PLANNING BOARD CHAIRMAN	SIGNATURE DATE
PLANNING BOARD SECRETARY	SIGNATURE DATE

SITE PLANS ARE VALID FOR TWO YEARS 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.

**THIS PLAN TO BE UTILIZED  
 FOR SITE GRADING  
 PURPOSES ONLY**



**BOHLER**  
 SITE CIVIL AND CONSULTING ENGINEERING  
 LAND SURVEYING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

### REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/24/2026	TOWN & PEER REVIEW COMMENTS	MJW	KWC
2	05/12/2026	TOWN COMMENTS	MJW	KWC

Know what's below.  
 Call before you dig.  
**ALWAYS CALL 811**  
 It's fast. It's free. It's the law.

## PERMIT SET

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: NHA250020.01-2A  
 DRAWN BY: MJW  
 CHECKED BY: KWC  
 DATE: 01/23/2026  
 CAD I.D.: P-CIVL-GDUL

## SITE DEVELOPMENT PLANS

FOR

Where Restaurant's Depot

PROPOSED RESTAURANT DEPOT  
 273 LOWELL ROAD  
 HUDSON, NEW HAMPSHIRE  
 PARCEL ID: 234-034-000

**BOHLER**  
 3 EXECUTIVE PARK DRIVE FLOOR 2  
 BEDFORD, NH 03110  
 Phone: (603) 441-2900  
 www.BohlerEngineering.com

SHEET TITLE:

## GRADING PLAN

SHEET NUMBER:  
**C-401**

REVISION 2 - 05/12/2026

May 11, 2026  
 P:\MHA\2025\NHA250020.01\CADD\DRAWINGS\PLAN SETS\CIVIL\SITE PLANS\PC-CIVL-GDUL-NHA250020.01-2A-LAYOUT-C-401.GRD



# LOWELL ROAD

MAP 237 LOT 37  
 MACTHOMPSON REALTY  
 INC.  
 3 MARMON DRIVE  
 NASHUA, N.H. 03060  
 BK. 9666 PG. 2868

MAP 234 LOT 33  
 277 LOWELL ROAD  
 LLC  
 277 LOWELL ROAD  
 HUDSON, N.H. 03051  
 BK. 9688 PG. 2461

MAP 239 LOT 1  
 TARGET CORPORATION  
 1000 NICOLLET MALL, TPN 12H  
 MINNEAPOLIS, MN 55403  
 BK. 9822 PG. 2842

MAP 234 LOT 14  
 DON R. & MELISSA E.  
 WONG  
 18 LINDA STREET  
 HUDSON, N.H. 03051  
 BK. 7862 PG. 478

MAP 234 LOT 13  
 ROY CARROLL  
 CARROLL REVOCABLE  
 TRUST  
 16 LINDA STREET  
 HUDSON, N.H. 03051  
 BK. 9735 PG. 679

MAP 234 LOT 12  
 MARK TEMPEST  
 KRIS MARCOCCIO  
 12 LINDA STREET  
 HUDSON, N.H.  
 03051  
 BK. 9228 PG. 2048

**BOHLER**  
 SITE CIVIL AND CONSULTING ENGINEERING  
 LAND SURVEYING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/24/2026	TOWN & PEER REVIEW COMMENTS	MJW	KWC
2	05/12/2026	TOWN COMMENTS	MJW	KWC

**811**  
 Know what's below.  
 Call before you dig.  
 ALWAYS CALL 811  
 It's fast. It's free. It's the law.

**PERMIT SET**  
 THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: NHA250020.01-2A  
 DRAWN BY: MJW  
 CHECKED BY: KWC  
 DATE: 01/23/2026  
 CAD I.D.: P-CIVIL-GDUL

**SITE DEVELOPMENT PLANS**  
 FOR  
**Where Restaurants Eat**  
**RESTAURANT DEPOT**

PROPOSED RESTAURANT DEPOT  
 273 LOWELL ROAD  
 HUDSON, NEW HAMPSHIRE  
 PARCEL ID: 234-034-000

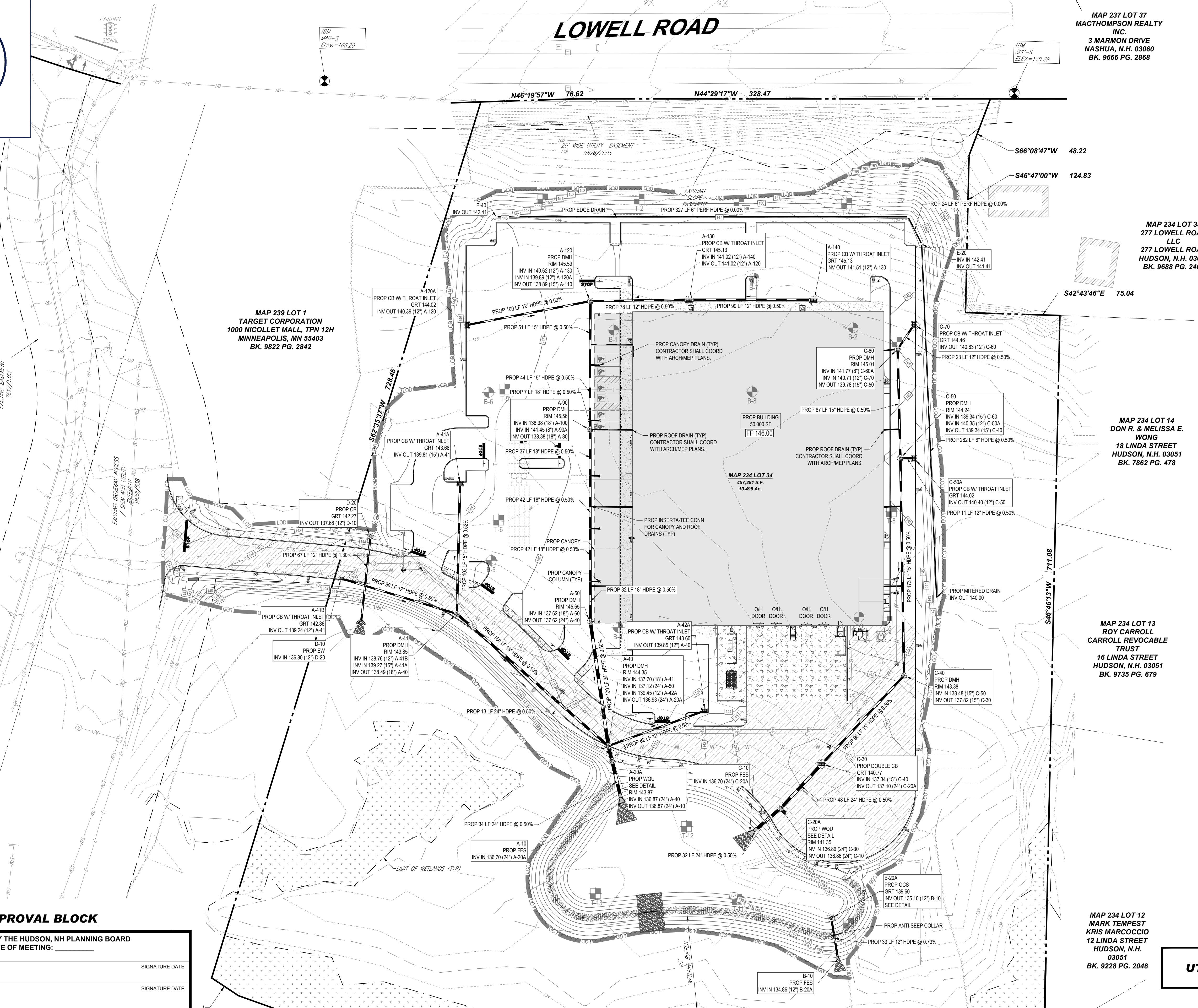
**BOHLER**  
 3 EXECUTIVE PARK DRIVE FLOOR 2  
 BEDFORD, NH 03110  
 Phone: (603) 441-2900  
 www.BohlerEngineering.com

STATE OF NEW HAMPSHIRE  
 JOSEPH TRUCCHI  
 PROFESSIONAL ENGINEER  
 No. 15476  
 EXPIRES 12/31/2026

SHEET TITLE:  
**DRAINAGE PLAN**

SHEET NUMBER:  
**C-402**

REVISION 2 - 05/12/2026



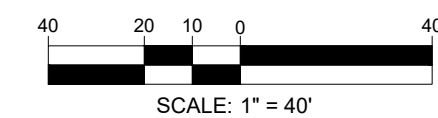
**APPROVAL BLOCK**

APPROVED BY THE HUDSON, NH PLANNING BOARD  
 DATE OF MEETING: \_\_\_\_\_

PLANNING BOARD CHAIRMAN	SIGNATURE DATE
PLANNING BOARD SECRETARY	SIGNATURE DATE

SITE PLANS ARE VALID FOR TWO YEARS 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.

**THIS PLAN TO BE UTILIZED FOR DRAINAGE PURPOSES ONLY**



May 11, 2026  
 P:\MVA\2025\NHA250020.01\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\PC-CIVIL-GDUL-NHA250020.01-2A-LAYOUT-C-402.DWG



# LOWELL ROAD

MAP 237 LOT 37  
 MACTHOMPSON REALTY INC.  
 3 MARMON DRIVE  
 NASHUA, N.H. 03060  
 BK. 9666 PG. 2868

MAP 234 LOT 33  
 277 LOWELL ROAD LLC  
 277 LOWELL ROAD  
 HUDSON, N.H. 03051  
 BK. 9688 PG. 2461

MAP 234 LOT 14  
 DON R. & MELISSA E. WONG  
 18 LINDA STREET  
 HUDSON, N.H. 03051  
 BK. 7862 PG. 478

MAP 234 LOT 13  
 ROY CARROLL CARROLL REVOCABLE TRUST  
 16 LINDA STREET  
 HUDSON, N.H. 03051  
 BK. 9735 PG. 679

MAP 234 LOT 12  
 MARK TEMPEST KRIS MARCOCCIO  
 12 LINDA STREET  
 HUDSON, N.H. 03051  
 BK. 9228 PG. 2048

MAP 239 LOT 1  
 TARGET CORPORATION  
 1000 NICOLLET MALL, TPN 12H  
 MINNEAPOLIS, MN 55403  
 BK. 9822 PG. 2842

CCB-7 (B3-2)  
 RIM=147.5933  
 INV IN (CCB-7)=144.4920  
 INV OUT (CCB-6)=145.8440

CCB-6 (B3-2)  
 RIM=147.5933  
 INV IN (CCB-7)=144.4920  
 INV OUT (CCB-5)=144.4680

CCB-5 (B3-2)  
 RIM=137.9200  
 INV IN (CCB-6)=134.9450  
 INV IN (CCB-8)=134.9800  
 INV OUT (MH-5)=134.8770

CCB-8 (B3-2)  
 RIM=137.8667  
 INV OUT (CCB-5)=135.3820

HW-2 (A1-7)  
 IW=137.35  
 INV OUT (CCB-5)=134.5700

## APPROVAL BLOCK

APPROVED BY THE HUDSON, NH PLANNING BOARD  
 DATE OF MEETING: \_\_\_\_\_

PLANNING BOARD CHAIRMAN	SIGNATURE	DATE
PLANNING BOARD SECRETARY	SIGNATURE	DATE

SITE PLANS ARE VALID FOR TWO YEARS 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.

**BOHLER**  
 SITE CIVIL AND CONSULTING ENGINEERING  
 LAND SURVEYING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

### REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/24/2026	TOWN & PEER REVIEW COMMENTS	MJW	KWC
2	05/12/2026	TOWN COMMENTS	MJW	KWC

Know what's below.  
 Call before you dig.  
**ALWAYS CALL 811**  
 It's fast. It's free. It's the law.

## PERMIT SET

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: NHA250020.01-2A

DRAWN BY: MJW

CHECKED BY: KWC

DATE: 01/23/2026

CAD I.D.: P-CIVL-GDUL

PROJECT:

### SITE DEVELOPMENT PLANS

FOR

PROPOSED RESTAURANT DEPOT

273 LOWELL ROAD  
 HUDSON, NEW HAMPSHIRE  
 PARCEL ID: 234-034-000

**BOHLER**  
 3 EXECUTIVE PARK DRIVE FLOOR 2  
 BEDFORD, NH 03110  
 Phone: (603) 441-2900  
 www.BohlerEngineering.com

JOHN TRUCCHI  
 LICENSED PROFESSIONAL ENGINEER  
 No. 15476  
 EXPIRES 12/31/27

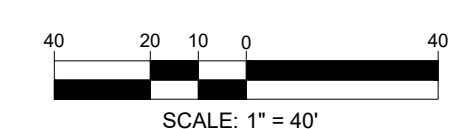
SHEET TITLE:

## UTILITY PLAN

SHEET NUMBER:

# C-501

REVISION 2 - 05/12/2026



May 11, 2026  
 P:\MHA\2025\NHA\250020.01\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\CIVL-GDUL-NHA250020.01-2A-LAYOUT-C-501.UPL



NAD83

# LOWELL ROAD

MAP 237 LOT 37  
MACTHOMPSON REALTY  
INC.  
3 MARMON DRIVE  
NASHUA, N.H. 03060  
BK. 9666 PG. 2868

MAP 234 LOT 33  
277 LOWELL ROAD  
LLC  
277 LOWELL ROAD  
HUDSON, N.H. 03051  
BK. 9688 PG. 2461

MAP 239 LOT 1  
TARGET CORPORATION  
1000 NICOLLET MALL, TPN 12H  
MINNEAPOLIS, MN 55403  
BK. 9822 PG. 2842

MAP 234 LOT 14  
DON R. & MELISSA E.  
WONG  
18 LINDA STREET  
HUDSON, N.H. 03051  
BK. 7862 PG. 478

MAP 234 LOT 13  
ROY CARROLL  
CARROLL REVOCABLE  
TRUST  
16 LINDA STREET  
HUDSON, N.H. 03051  
BK. 9735 PG. 679

MAP 234 LOT 12  
MARK TEMPEST  
KRIS MARCOCCIO  
12 LINDA STREET  
HUDSON, N.H.  
03051  
BK. 9228 PG. 2048

**LIMIT OF DISTURBANCE  
AREA: 240,111 SF (5.51 AC)**

MAP 234 LOT 34  
47,281 S.F.  
10.488 Ac.

### APPROVAL BLOCK

APPROVED BY THE HUDSON, NH PLANNING BOARD  
DATE OF MEETING: \_\_\_\_\_

PLANNING BOARD CHAIRMAN	SIGNATURE	DATE
PLANNING BOARD SECRETARY	SIGNATURE	DATE

SITE PLANS ARE VALID FOR TWO YEARS 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.

**BOHLER**  
SITE CIVIL AND CONSULTING ENGINEERING  
LAND SURVEYING  
PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

### REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/24/2026	TOWN & PEER REVIEW COMMENTS	MJW	KWC
2	05/12/2026	TOWN COMMENTS	MJW	KWC



Know what's below.  
Call before you dig.  
**ALWAYS CALL 811**  
It's fast. It's free. It's the law.

### PERMIT SET

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: NHA250020.01-2A  
 DRAWN BY: MJW  
 CHECKED BY: KWC  
 DATE: 01/23/2026  
 CAD I.D.: P-CIVL-PROP

### SITE DEVELOPMENT PLANS

FOR



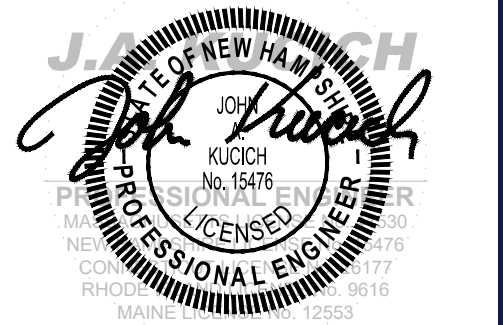
PROPOSED RESTAURANT DEPOT

273 LOWELL ROAD  
HUDSON, NEW HAMPSHIRE  
PARCEL ID: 234-034-000

### BOHLER

3 EXECUTIVE PARK DRIVE FLOOR 2  
BEDFORD, NH 03110  
Phone: (603) 441-2900

www.BohlerEngineering.com



SHEET TITLE:

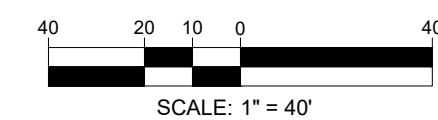
### SOIL EROSION AND SEDIMENT CONTROL PLAN

SHEET NUMBER:

# C-801

REVISION 2 - 05/12/2026

**THIS PLAN TO BE UTILIZED FOR  
SOIL EROSION AND SEDIMENT  
CONTROL PURPOSES ONLY**



May 11, 2026  
P:\M\2025\NHA250020.01\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\CIVL-PROP-NHA250020.01-2A-LAYOUT-C-801.EROS

# NEW HAMPSHIRE EROSION AND SEDIMENT CONTROL NOTES

(Rev. 10/2025)

- ALL SEDIMENT AND EROSION CONTROL MEASURES MUST BE DONE AS SET FORTH IN THE MOST CURRENT STATE SEDIMENT AND EROSION CONTROL MANUAL.
- THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS MUST BE PERMANENTLY STABILIZED IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS. AT A MINIMUM, AREAS MUST BE PERMANENTLY STABILIZED ACCORDING TO THE CURRENT EDITION OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP), OR IN THE ABSENCE OF A SWPPP, THEY MUST BE PERMANENTLY STABILIZED WITHIN 14 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 100 FEET OF A STREAM OR POND, THE AREA MUST BE STABILIZED WITHIN SEVEN (7) DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD INCLUDE WETLANDS).
- SEDIMENT BARRIERS (SILT FENCE, STRAW BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING MUST BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 8%.
- INSTALL SILTATION BARRIER AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILTATION BARRIER DETAILS FOR PROPER INSTALLATION. SILTATION BARRIER WILL REMAIN IN PLACE PER NOTE #6.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY SEVEN (7) DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES MUST REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UP-SLOPE ARE PERMANENTLY STABILIZED. FOR SEDIMENT CONTROL DEVICES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION, THE DEVICES MUST REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
- NO SLOPES, EITHER PERMANENT OR TEMPORARY, MUST BE STEEPER THAN TWO TO ONE (2:1) UNLESS OTHERWISE INDICATED ON THE PLANS. SLOPE PROTECTION FOR SLOPES GREATER THAN 2:1 MUST BE DESIGNED BY A GEOTECHNICAL ENGINEER.
- IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
- TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED MUST BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.
- DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT MUST BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL STANDARDS.
- ALL TEMPORARY EROSION CONTROL MEASURES MUST BE REMOVED ONCE THE SITE IS 85% STABILIZED. FOR EROSION CONTROL MEASURES THAT ARE WITHIN AREAS SUBJECT TO CONSERVATION COMMISSION JURISDICTION, THE MEASURES MUST REMAIN IN PLACE AND BE REMOVED IN ACCORDANCE WITH THE ORDER OF CONDITIONS.
- WETLANDS WILL BE PROTECTED WITH BARRIERS CONSISTING OF STRAW BALES, FILTER SOCK, SILT FENCE OR A COMBINATION THEREOF.
- ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM MUST HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS.
- ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM MUST FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED.
- TEMPORARY SEDIMENT TRAPS MUST BE SIZED AND CONSTRUCTED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS.
  - THE MAXIMUM CONTRIBUTING DRAINAGE AREA TO THE TRAP MUST BE LESS THAN FIVE (5) ACRES AND THE MINIMUM VOLUME OF THE TRAP MUST BE 3,000 CUBIC FEET OF STORAGE FOR EACH ACRE OF DRAINAGE AREA.
- STOCKPILES OF MATERIALS (DIRT, WOOD, CONCRETE, BRUSHES, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION RUNOFF.
- EXISTING CATCH BASIN STRUCTURES MUST BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.
- THE CONTRACTOR MUST PERFORM DEWATERING (IF REQUIRED), IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND PAY FOR THE COSTS ASSOCIATED WITH ANY AND ALL NECESSARY DISCHARGE PERMITS ASSOCIATED WITH SAME.
- THE CONTRACTOR MUST LOCATE CONSTRUCTION WASTE MATERIAL STORAGE AREAS TO MINIMIZE EXPOSURE TO STORMWATER. THE CONTRACTOR MUST IMMEDIATELY PLACE CONSTRUCTION WASTE IN ON-SITE STORAGE CONTAINERS UNTIL THAT CONTAINER IS READY FOR OFF-SITE DISPOSAL. THE CONTRACTOR MUST MAINTAIN SPILL PREVENTION AND RESPONSE EQUIPMENT AND MAKE SAME CONTINUOUSLY AVAILABLE ON-SITE FOR USE BY THE CONTRACTOR'S EMPLOYEES WHO MUST BE PROPERLY TRAINED IN THE APPLICATION OF SPILL PREVENTION AND RESPONSE PROCEDURES.

## EROSION CONTROL NOTES DURING WINTER CONSTRUCTION

(Rev. 10/2025)

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

- STABILIZATION AS FOLLOWS SHOULD BE COMPLETED WITHIN A DAY OF ESTABLISHING THE GRADE THAT IS FINAL OR THAT OTHERWISE WILL EXIST FOR MORE THAN 5 DAYS:
  - ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF LESS THAN 15 PERCENT WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHOULD BE SEEDED AND COVERED WITH 3 TO 4 TONS OF HAY OR STRAW MULCH PER ACRE SECURED WITH ANCHORED NETTING OR 2 INCHES OF EROSION CONTROL MIX (SEE "EROSION CONTROL MIX BERM" FACT SHEET FOR MATERIAL SPECIFICATIONS).
  - ALL PROPOSED VEGETATED AREAS HAVING A SLOPE OF GREATER THAN 15 PERCENT WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHOULD BE SEEDED AND COVERED WITH A PROPERLY INSTALLED AND ANCHORED EROSION CONTROL BLANKET OR WITH A MINIMUM 4-INCH THICKNESS OF EROSION CONTROL MIX, UNLESS OTHERWISE SPECIFIED BY THE MANUFACTURER. NOTE THAT EROSION CONTROL BLANKETS, WITH COMPOST, SHOULD NOT EXCEED 2 INCHES IN THICKNESS OR THEY MAY OVERHEAT.
- ALL STONE-COVERED SLOPES MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.
- STOCKPILES OF SOIL MATERIALS SHOULD BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR WITH A 4-INCH LAYER OF EROSION CONTROL MIX. MULCHING SHOULD BE DONE WITHIN 24 HOURS OF STOCKING, AND REESTABLISHED PRIOR TO ANY RAINFALL OR SNOWFALL. NO SOIL STOCKPILE SHOULD BE PLACED (EVEN COVERED WITH MULCH) WITHIN 100 FEET FROM ANY WETLAND OR OTHER WATER RESOURCE AREA.
- INSTALLATION OF EROSION CONTROL BLANKETS SHOULD NOT OCCUR OVER SNOW OF GREATER THAN 1-INCH IN DEPTH OR ON FROZEN GROUND.
- ALL GRASS-LINED DITCHES, SWALES, AND CHANNELS SHOULD BE CONSTRUCTED AND STABILIZED BY SEPTEMBER 1. ALL DITCHES, SWALES, OR CHANNELS WHICH DO NOT EXHIBIT A MINIMUM OF 95 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHOULD BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS, AS DETERMINED BY A QUALIFIED PROFESSIONAL ENGINEER OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL AS CERTIFIED BY THE CSPESC COUNCIL OF ENVIROCERT INTERNATIONAL, INC. IF A STONE LINING IS NECESSARY, THE CONTRACTOR MAY NEED TO RE-GRADE THE DITCH, SWALE, OR CHANNEL AS REQUIRED TO PROVIDE ADEQUATE CROSS-SECTION AFTER ALLOWING FOR PLACEMENT OF THE STONE.
- ALL STONE-LINED DITCHES, SWALES, AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED BY OCTOBER 15.

- DURING WINTER:
- THE AREA OF EXPOSED, UNSTABILIZED SOIL SHOULD BE LIMITED TO ONE ACRE AND SHOULD BE PROTECTED AGAINST EROSION BY THE METHODS DESCRIBED IN THIS SECTION PRIOR TO ANY THAW OR SPRING MELT EVENT. SUBJECT TO APPLICABLE REGULATIONS, THE ALLOWABLE AREA OF EXPOSED SOIL MAY BE INCREASED IF ACTIVITIES ARE CONDUCTED ACCORDING TO A WINTER CONSTRUCTION PLAN, DEVELOPED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF NEW HAMPSHIRE OR A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL AS CERTIFIED BY THE CSPESC COUNCIL OF ENVIROCERT INTERNATIONAL, INC.
  - INSTALLATION OF ANCHORED HAY MULCH OR EROSION CONTROL MIX SHOULD NOT OCCUR OVER SNOW OF GREATER THAN 1 INCH IN DEPTH OR ON FROZEN GROUND.
  - ALL MULCH APPLIED DURING WINTER SHOULD BE ANCHORED (E.G., BY NETTING, TRACKING, WOOD CELLULOSE FIBER).
  - FROZEN MATERIALS, (E.G., FROST LAYER THAT IS REMOVED DURING WINTER CONSTRUCTION), SHOULD BE STOCKPILED SEPARATELY AND IN A LOCATION THAT IS AWAY FROM ANY AREA NEEDING TO BE PROTECTED. STOCKPILES OF FROZEN MATERIAL CAN MELT IN THE SPRING AND BECOME UNWORKABLE AND DIFFICULT TO TRANSPORT DUE TO THE HIGH MOISTURE CONTENT IN THE SOIL.
  - AFTER OCTOBER 15, INCOMPLETE ROAD OR PARKING AREAS WHERE ACTIVE CONSTRUCTION OF THE ROAD OR PARKING AREA HAS STOPPED FOR THE WINTER SEASON SHOULD BE PROTECTED WITH A MINIMUM 3-INCH LAYER OF BASE COURSE GRAVELS MEETING THE GRADUATION REQUIREMENTS OF NHDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION (TAGS E. 304.1, ITEM NO. 3.1, 304.2, OR 304.3).
  - SEDIMENT BARRIERS THAT ARE INSTALLED DURING FROZEN CONDITIONS SHOULD CONSIST OF EROSION CONTROL MIX BERMS, OR CONTINUOUS BERNED BERMS. SILT FENCES AND HAY BALES SHOULD NOT BE INSTALLED WHEN FROZEN CONDITIONS PREVENT PROPER EMBEDMENT OF THESE BARRIERS.

## APPROVAL BLOCK

APPROVED BY THE HUDSON, NH PLANNING BOARD  
DATE OF MEETING:

PLANNING BOARD CHAIRMAN	SIGNATURE DATE
PLANNING BOARD SECRETARY	SIGNATURE DATE

SITE PLANS ARE VALID FOR TWO YEARS 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.

# GENERAL EROSION AND SEDIMENT CONTROL NOTES

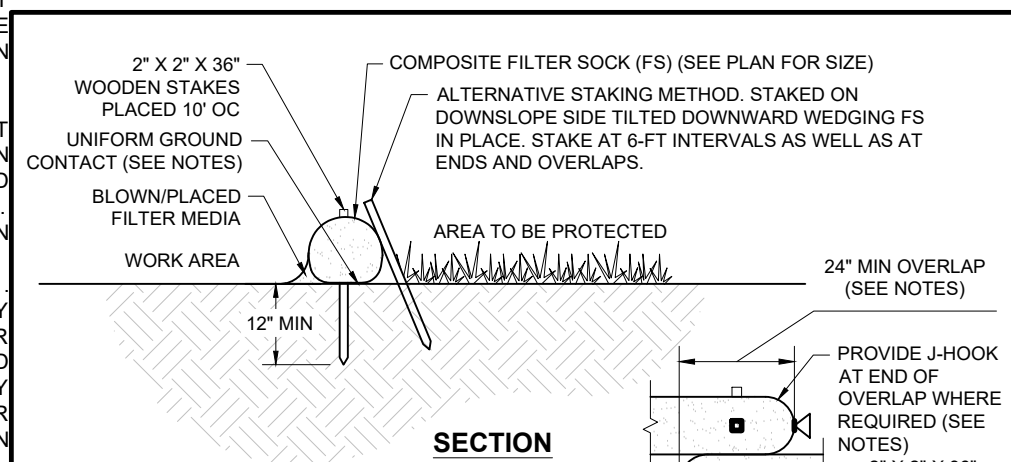
(Rev. 10/2025)

- THE GENERAL NOTES MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE GENERAL NOTES ARE REFERENCED HEREIN, AND THE CONTRACTOR MUST REFER TO THEM AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY. THE CONTRACTOR MUST BE FAMILIAR WITH AND ACKNOWLEDGE FAMILIARITY WITH ALL OF THE GENERAL NOTES AND ALL OF THE PLANS' SPECIFIC NOTES.
- EROSION CONTROL MEASURES MUST CONFORM TO THE STATE, LOCAL, AND FEDERAL GUIDELINES FOR URBAN EROSION AND SEDIMENT CONTROL UNLESS OTHERWISE NOTED, OR UNLESS THE PROFESSIONAL OF RECORD CLEARLY AND SPECIFICALLY, IN WRITING, DIRECTS OTHERWISE. INSTALLATION OF EROSION CONTROL, CLEARING, AND SITE WORK MUST BE PERFORMED EXACTLY AS INDICATED IN THE EROSION CONTROL CONSTRUCTION NOTES.
- THE DISTURBED LAND AREA OF THIS SITE IS APPROXIMATELY 5.51 ACRES.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT - A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT IS TO BE INSTALLED AT THE DESIGNATED LOCATION SHOWN ON THE PLAN. THIS AREA MUST BE GRADED SO THAT RUNOFF WATER WILL BE RETAINED ON-SITE.
- EROSION CONTROL BARRIER - INSTALL SILT FENCE(S), STRAW BALES AND/OR FILTER SOCK (OR APPROVED EQUIVALENT) AROUND ALL OF THE DOWNSLOPE PERIMETERS OF THE SITE. TEMPORARY FILL AND SOIL STOCKPILES.
- INSTALL FILTER FABRIC DROP INLET PROTECTION AROUND EACH DRAINAGE INLET AS DRAINAGE STRUCTURES ARE INSTALLED TO REDUCE THE QUANTITY OF SEDIMENT INSTALLED TEMPORARY INLET PROTECTION ON INLETS DOWNSLOPE FROM DISTURBANCE, WHICH MAY BE BEYOND THE LIMITS OF DISTURBED AREA.
- INSTALLATION OF EROSION CONTROL DEVICES MUST BE IN ACCORDANCE WITH ALL OF THE MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR MUST APPLY TEMPORARY SEED AND MULCH TO ALL DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINISHED GRADE AND VEGETATED WITHIN SEVEN (7) DAYS. WHEN AREAS ARE DISTURBED AFTER THE GROWING SEASON, THE CONTRACTOR MUST STABILIZE SAME WITH GEOTEXTILE FABRIC AND MAINTAIN SAME IN STRICT ACCORDANCE WITH BEST MANAGEMENT PRACTICES.
- THE CONTRACTOR MUST INSTALL ADDITIONAL EROSION CONTROL MEASURES IF THE PROFESSIONAL OF RECORD SO REQUIRES, TO PREVENT ANY, INCLUDING THE INCIDENTAL, DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE.
- THE CONTRACTOR MUST BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION CONTROL MEASURES ON THE SITE UNTIL PERMANENT PAVING AND TURF/LANDSCAPING IS ESTABLISHED. THE COSTS OF INSTALLING AND MAINTAINING THE EROSION CONTROL MEASURES MUST BE INCLUDED IN THE BID PRICE FOR THE SITE WORK AND THE CONTRACTOR IS RESPONSIBLE FOR ALL SUCH COSTS.
- THE CONTRACTOR MUST CONTINUE TO MAINTAIN ALL EROSION CONTROL MEASURES UNTIL THE COMPLETION OF CONSTRUCTION AND THE ESTABLISHMENT OF VEGETATION.
- THE CONTRACTOR MUST REMOVE EROSION CONTROL MEASURES, SILT AND DEBRIS AFTER ESTABLISHING PERMANENT VEGETATION COVER OR INSTALLING DIFFERENT SPECIFIED METHODS OF STABILIZATION.
- THIS PLAN REPRESENTS THE MINIMUM LEVEL OF IMPLEMENTATION OF TEMPORARY EROSION AND SEDIMENTATION CONTROL FACILITIES, MEASURES AND STRUCTURES. ADDITIONAL FACILITIES, MEASURES AND STRUCTURES MUST BE INSTALLED WHERE NECESSARY TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS AND/OR TO PREVENT ANY, INCLUDING THE INCIDENTAL DISCHARGE OF SILT-LADEN RUNOFF FROM EXITING THE SITE.
- THE CONTRACTOR MUST PROTECT ALL EXISTING TREES AND SHRUBS. THE CONTRACTOR MUST REFER TO THE LANDSCAPE AND/OR DEMOLITION PLANS FOR TREE PROTECTION, FENCE LOCATIONS AND STANDARDS.
- THE CONTRACTOR MUST REFER TO GRADING PLANS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR MUST CLEAR EXISTING AND PROPOSED DRAINAGE STRUCTURES AND INTERCONNECTING PIPES ON OR OFF-SITE AS THE JURISDICTIONAL AGENCY REQUIRES, BOTH AT THE TIME OF SITE STABILIZATION AND AT END OF PROJECT.
- SOIL EROSION CONTROL MEASURES MUST BE ADJUSTED OR RELOCATED BY THE CONTRACTOR AS IDENTIFIED DURING SITE OBSERVATION IN ORDER TO MAINTAIN THE COMPLETE EFFECTIVENESS OF ALL CONTROL MEASURES.

## SEEDING RECOMMENDATIONS FOR TEMPORARY VEGETATION

SEPCIES	PER ACRE BRUSHELS (BU) OR POUNDS (LBS)	PER 1,000 SF	REMARKS
WINTER RYE	2 BU OR 112 LBS	2.5 LBS	BEST FOR FALL SEEDING. SEED FROM AUGUST 15 FOR BEST COVER. SEED TO A DEPTH OF 1-INCH.
OATS	2.5 BU OR 80 LBS	2 LBS	BEST FOR SPRING SEEDINGS. SEED NO LATER THAN MAY 15 FOR SUMMER PROTECTION. SEED TO A DEPTH OF 1-INCH.
ANNUAL RYEGRASS	40 LBS	1 LB	GROWS QUICKLY BUT IS OF SHORT DURATION. USE WHERE APPEARANCES ARE IMPORTANT. SEED EARLY SPRING AND/OR BETWEEN AUGUST 15 AND SEPTEMBER 15. COVER THE SEED WITH NO MORE THAN 1/4-INCH OF SOIL.
PERENNIAL RYEGRASS	30LBS	0.7 LB	GOOD COVER WHICH IS LONGER LASTING THAN ANNUAL RYEGRASS. SEED BETWEEN APRIL 1 AND JUNE 1 AND/OR BETWEEN AUGUST 15 AND SEPTEMBER 15. MULCHING WILL ALLOW SEEDING THROUGHOUT THE GROWING SEASON. SEED TO A DEPTH OF APPROXIMATELY 1/2-INCH.

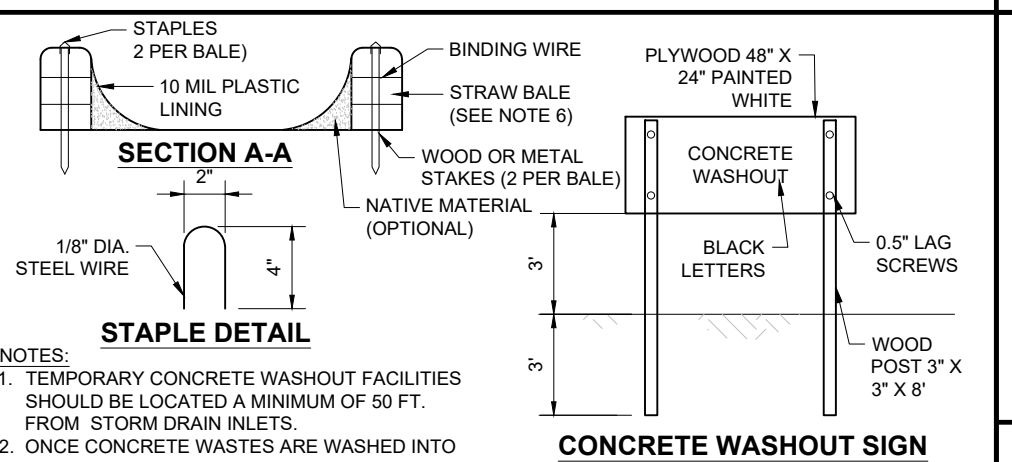
SOURCE: 2025 NEW HAMPSHIRE STORMWATER MANUAL



- NOTES:
- BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT TO PREVENT RUNOFF FROM GOING AROUND.
  - FOR LONG RUNS SOCKS SHALL OVERLAP SUCH THAT THEY CREATE A CONTINUOUS, EFFECTIVE BARRIER.
  - WHERE TWO FS SECTIONS MEET ON LEVEL GRADE, OVERLAP THE ADJOINING ENDS, TIGHTLY BUTT TOGETHER, AND STAKE THROUGH EACH END (SEE OVERLAP DETAIL ABOVE). WHERE TWO SECTIONS MEET ON UN-LEVEL GRADE, J-HOOK HIGHER ELEVATION END, STAKE, AND BEGIN NEW SECTION JUST BELOW. USE LOOSE MULCH TO FILL ANY VOIDS IN JOINT STRAIGHTEN AND POSITION SOCK ON GROUND ENSURING THERE IS GOOD CONTACT AND NO VOID SPACES UNDER THE SOCK.
  - ALL MATERIAL TO MEET MANUFACTURER SPECIFICATION AND CONTACT THE CONTRACTOR TO DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS.
  - THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 50 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
  - PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
  - WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
  - STRAW BALE AND STAPLES MAY BE USED TO STABILIZE SOIL SURFACE DURING MEASURES SUCH AS CONCRETE BLOCK.
  - IF ALLOWED BY LOCAL APPROVING AUTHORITY THE COMPOST MATERIAL TO BE DISPENSED ON SITE AT COMPLETION OF CONSTRUCTION OR AS DIRECTED BY OWNER AFTER STABILIZATION IS ACHIEVED.

## COMPOST FILTER SOCK (FS)

NOT TO SCALE (NE-004021 - 12/2025)



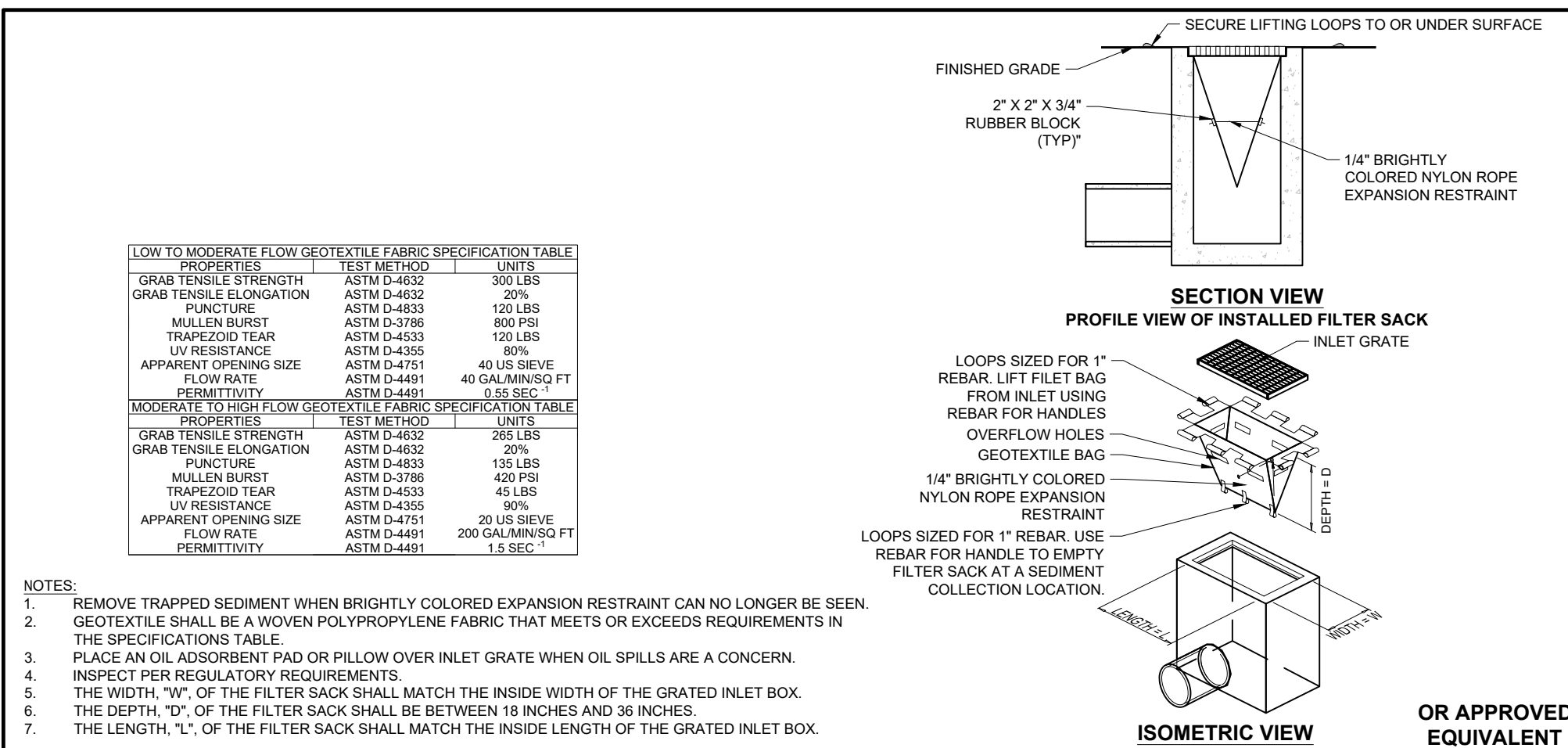
- NOTES:
- TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM OF 50 FT. FROM STORM DRAIN INLETS.
  - ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHOULD BE BROKEN UP, REMOVED, AND DISPOSED OF OFF-SITE. CONTRACTOR TO DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS.
  - THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 50 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
  - PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
  - WASHOUT FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.
  - STRAW BALE AND STAPLES MAY BE USED TO STABILIZE SOIL SURFACE DURING MEASURES SUCH AS CONCRETE BLOCK.
  - IF ALLOWED BY LOCAL APPROVING AUTHORITY THE COMPOST MATERIAL TO BE DISPENSED ON SITE AT COMPLETION OF CONSTRUCTION OR AS DIRECTED BY OWNER AFTER STABILIZATION IS ACHIEVED.

## CONCRETE WASTE MANAGEMENT AREA

NOT TO SCALE (NE-002021 - 09/2023)

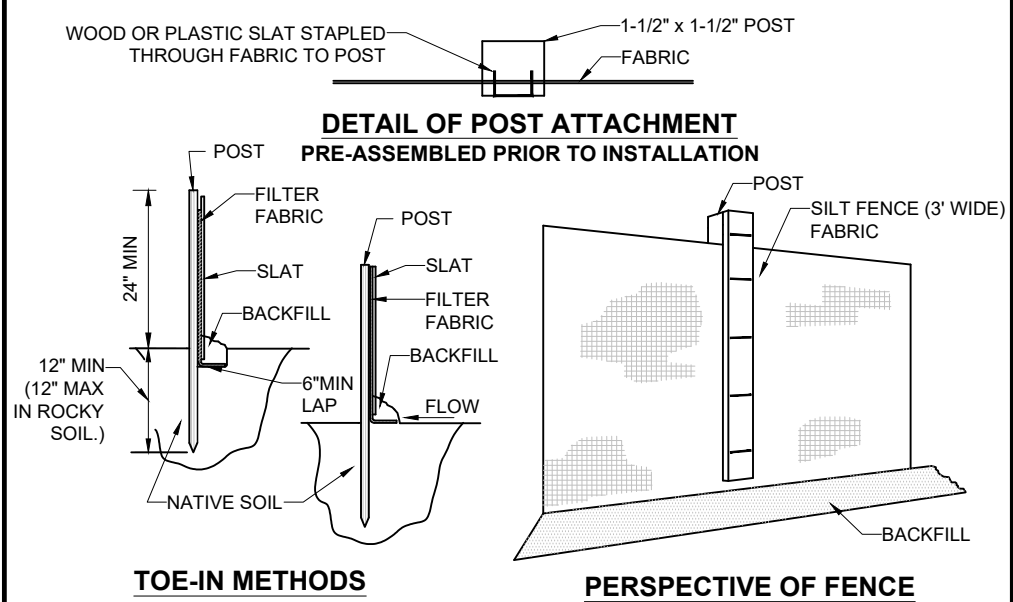
- NOTES REGARDING DETAILS BY OTHERS:
- DETAILS PREPARED BY OTHERS ARE IDENTIFIED AS SUCH BY A TITLE BLOCK, REFERENCE, LOGO, OR OTHER NOTATION.
  - WHERE AN ORIGINAL DETAIL BY OTHERS HAS BEEN MODIFIED, THE MODIFICATIONS ARE IDENTIFIED BY REVISION CLOUDS.
  - REFER TO OUTSIDE SOURCE NOTES ON THE GENERAL NOTES AND LEGEND SHEET.
  - WHEN THE SOURCE OF THE DETAIL IS A REVIEWING/REGULATORY AGENCY, FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS AND SPECIFICATIONS. WHEN APPROPRIATE, SHOP DRAWINGS SHALL BE FORWARDED TO THE REVIEWING/REGULATORY AGENCY PRIOR TO FABRICATION.

## DETAILS BY OTHERS DISCLAIMER



## INLET PROTECTION WITH MANUFACTURED INSERT

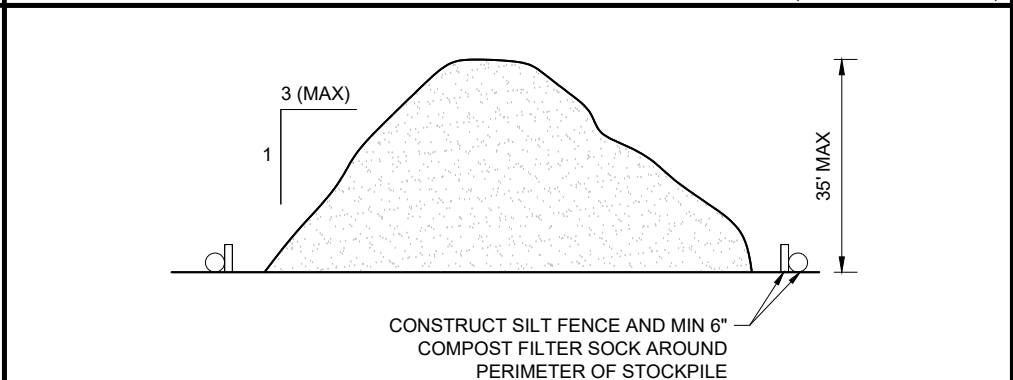
NOT TO SCALE (NE-0050101 - 09/2023)



- NOTES:
- EXCAVATE A 6" TRENCH ALONG THE LINE OF EROSION CONTROL OF THE SITE.
  - UNROLL SILTATION FENCE AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM FLOW DIRECTION).
  - DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS LAYING ACROSS THE TRENCH BOTTOM.
  - LAY THE TOE-IN FLAP OF THE FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH. BACKFILL ALSO BE ACCOMPLISHED BY LAYING FABRIC FLAP ON UNDISTURBED GROUND AND PACKING & TAMPING FILL AT THE BASE.

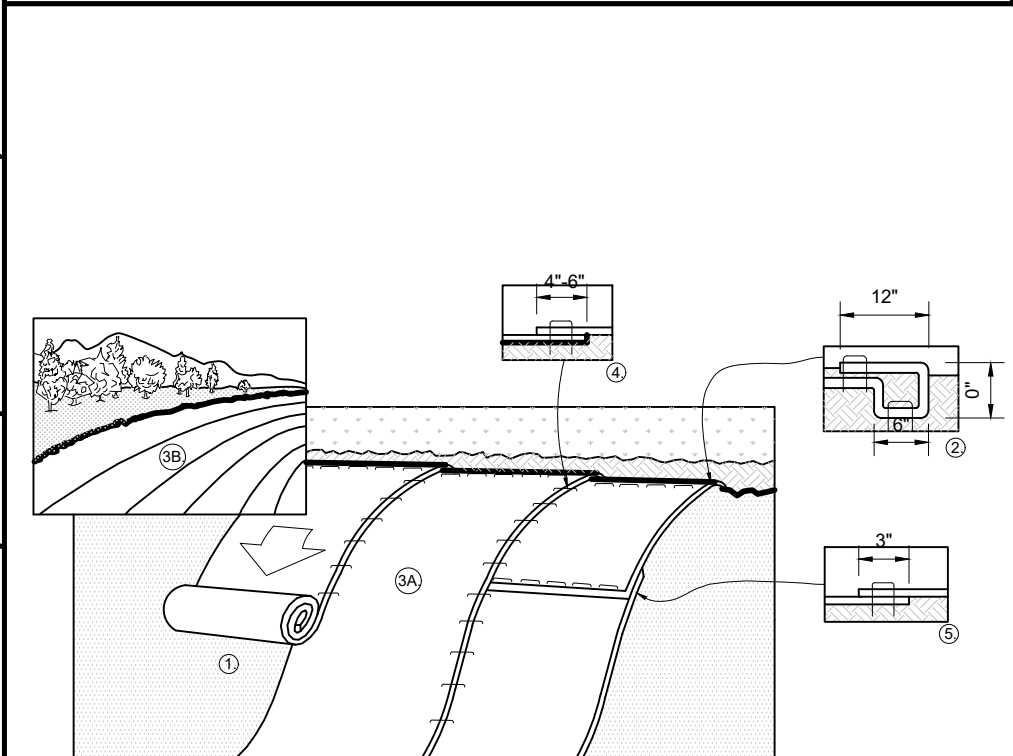
## SILT FENCE

NOT TO SCALE (NE-0040101 - 09/2023)



## TEMPORARY STOCK PILE WITH SILT FENCE AND FILTER SOCK

NOT TO SCALE (NE-0060102 - 09/2023)



- NOTES:
- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
  - THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH MINIMUM 6" OVERLAP. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
  - CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAP AREA APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
  - PLACE STAPLES/STAKES PER MANUFACTURER'S RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.
  - IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

## EROSION CONTROL BLANKET STEP SLOPE PROTECTION

NOT TO SCALE (NE-0004901 - 09/2023)

**BOHLER**  
SITE CIVIL AND CONSULTING ENGINEERING  
LAND SURVEYING  
PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

## REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/24/2026	TOWN & PEER REVIEW COMMENTS	MJW	KWC
2	05/12/2026	TOWN COMMENTS	MJW	KWC



Know what's below.  
Call before you dig.  
ALWAYS CALL 811  
It's fast. It's free. It's the law.

## PERMIT SET

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: NH250020.01-2A  
DRAWN BY: MJW  
CHECKED BY: KWC  
DATE: 01/23/2026  
CAD I.D.: P-CIVL-CND5

PROJECT:

## SITE DEVELOPMENT PLANS

FOR



PROPOSED RESTAURANT DEPOT

273 LOWELL ROAD  
HUDSON, NEW HAMPSHIRE  
PARCEL ID: 234-034-000

**BOHLER**  
3 EXECUTIVE PARK DRIVE FLOOR 2  
BEDFORD, NH 03110  
Phone: (603) 441-2900  
www.BohlerEngineering.com

**JAMES W. BOHLER**  
Professional Engineer  
No. 15476  
NEW HAMPSHIRE  
MAINE

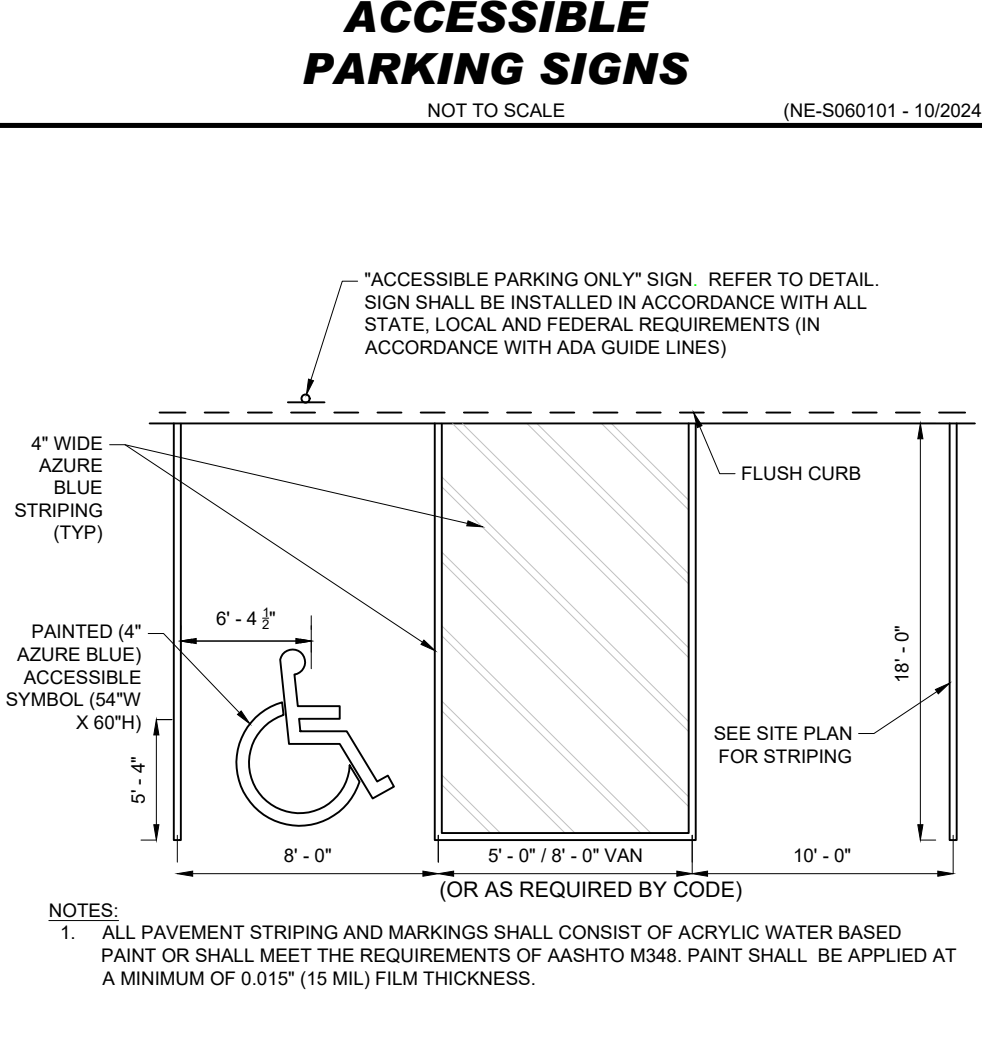
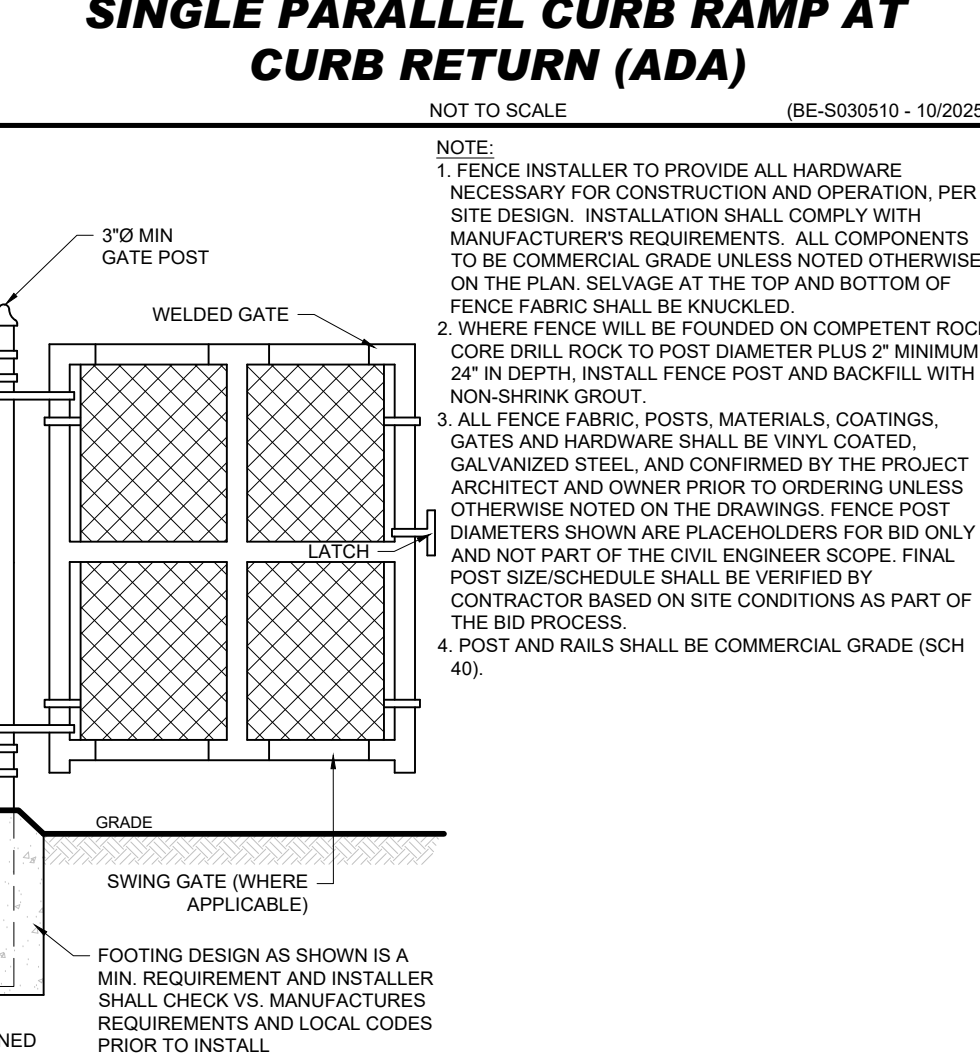
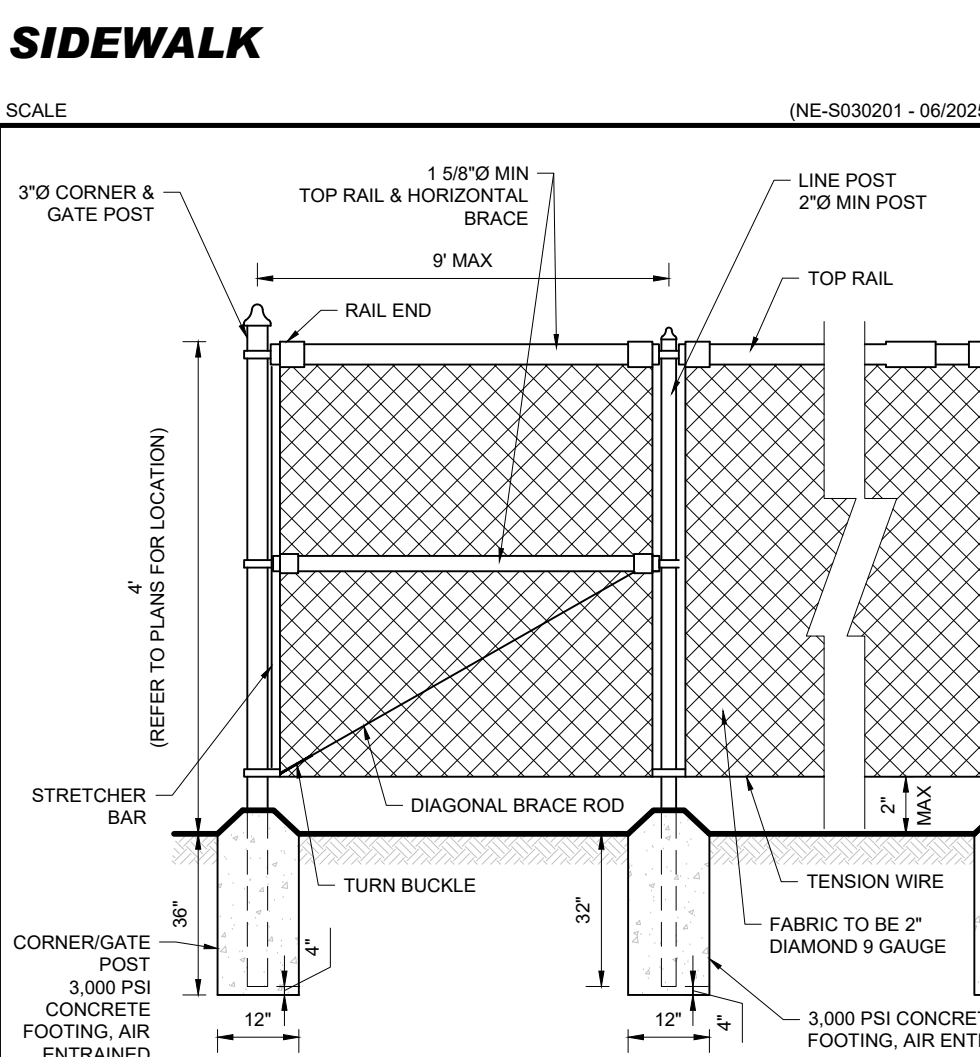
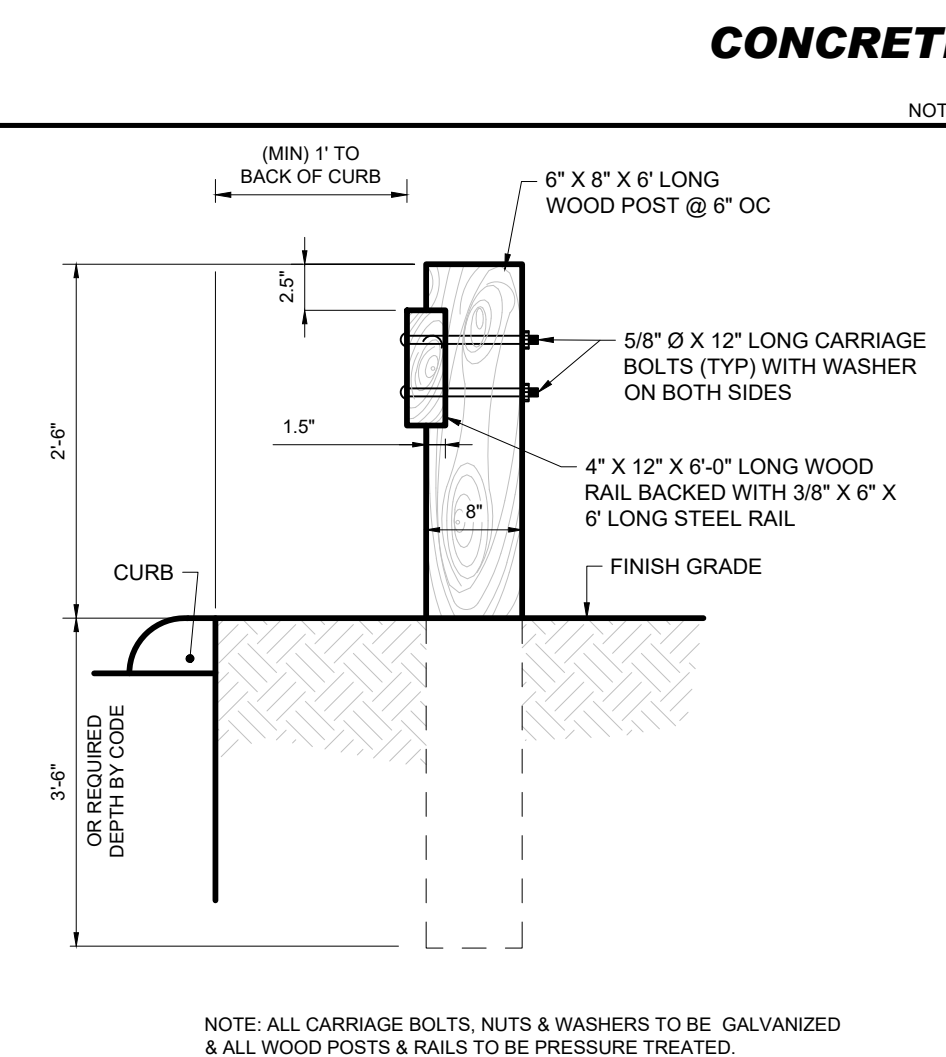
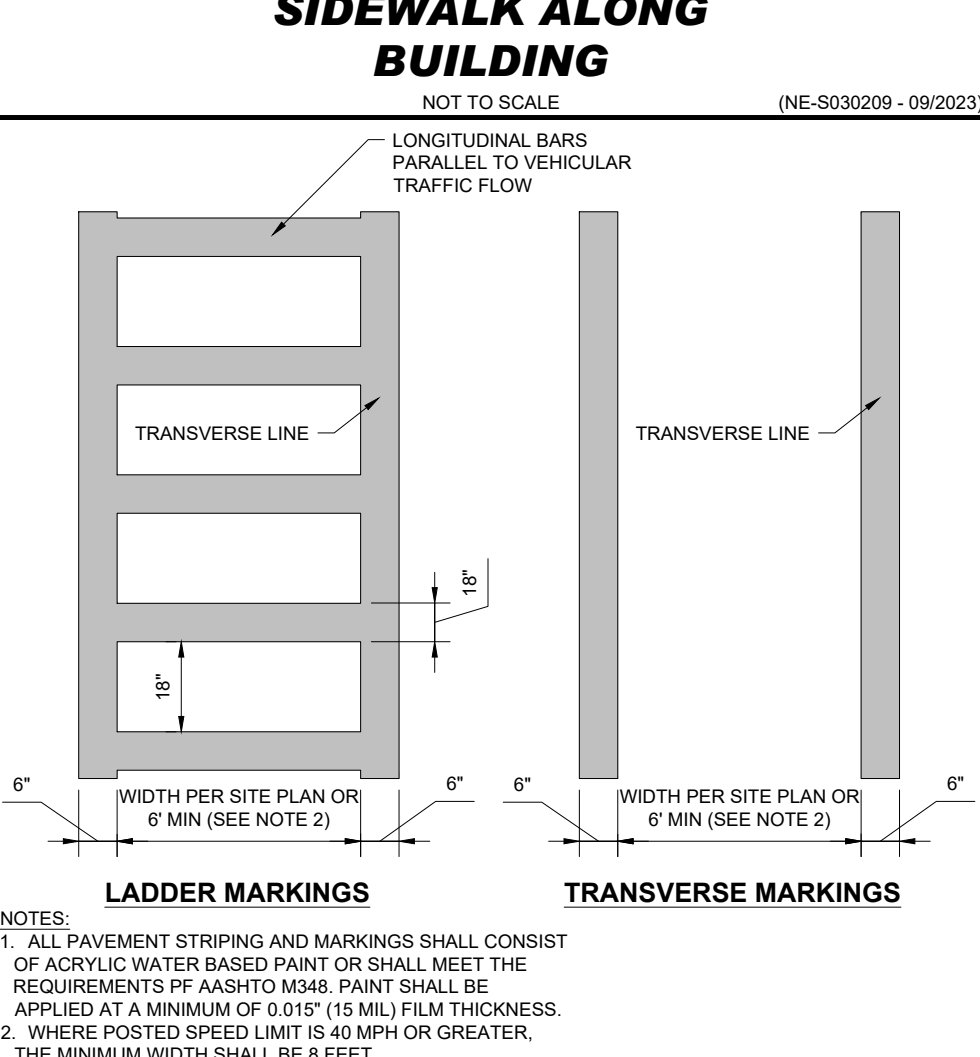
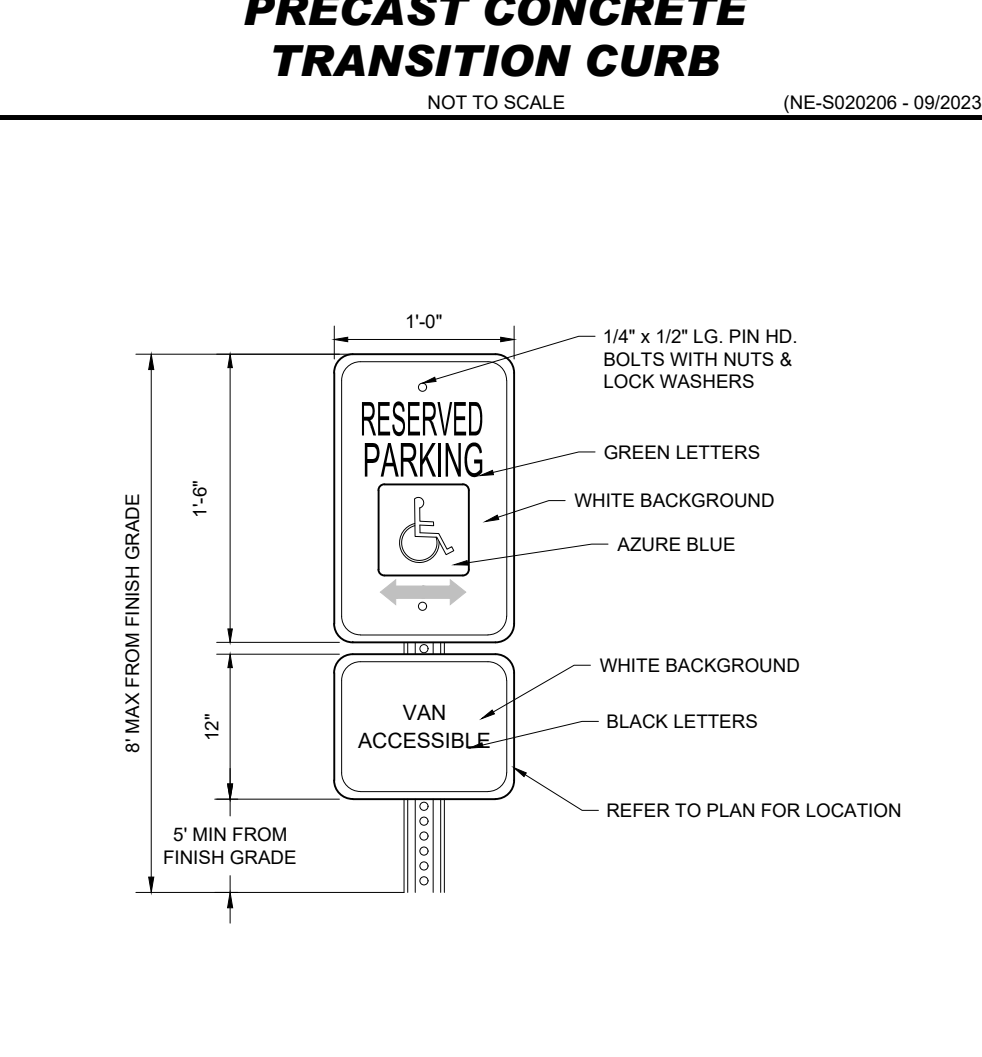
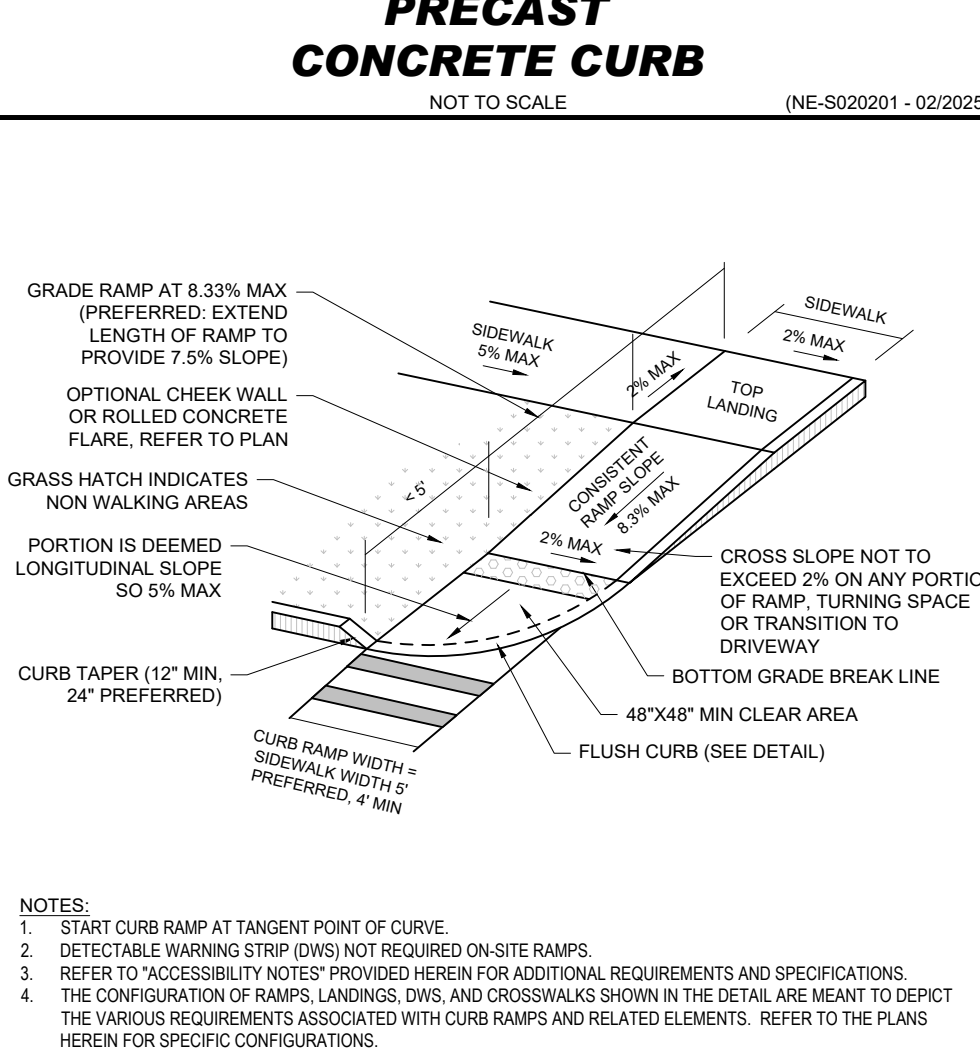
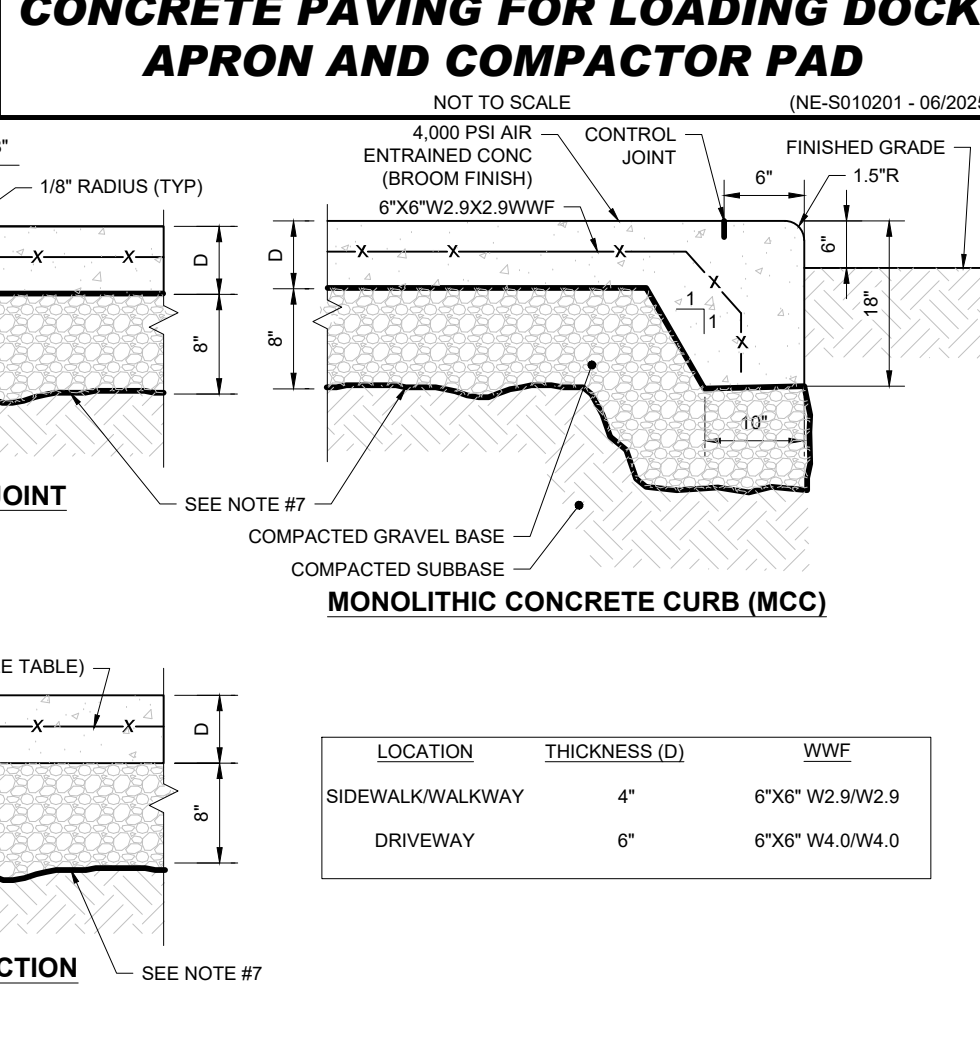
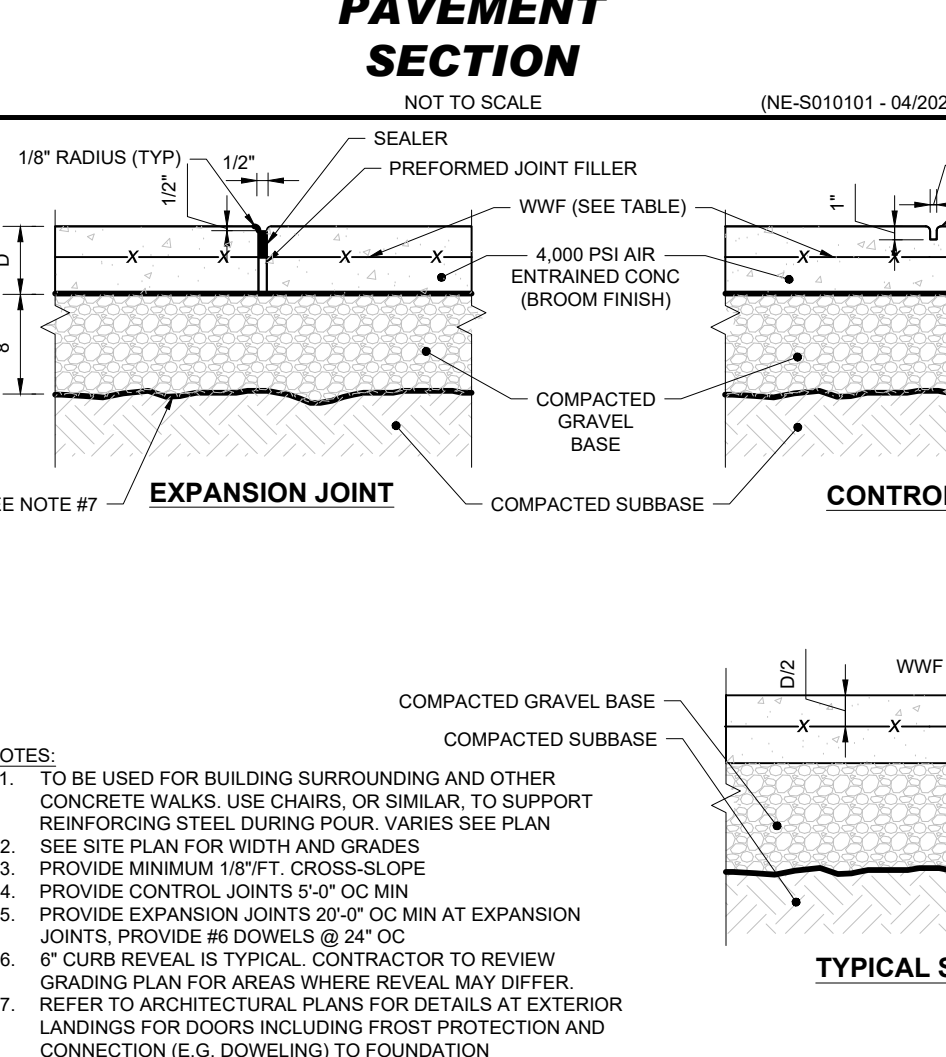
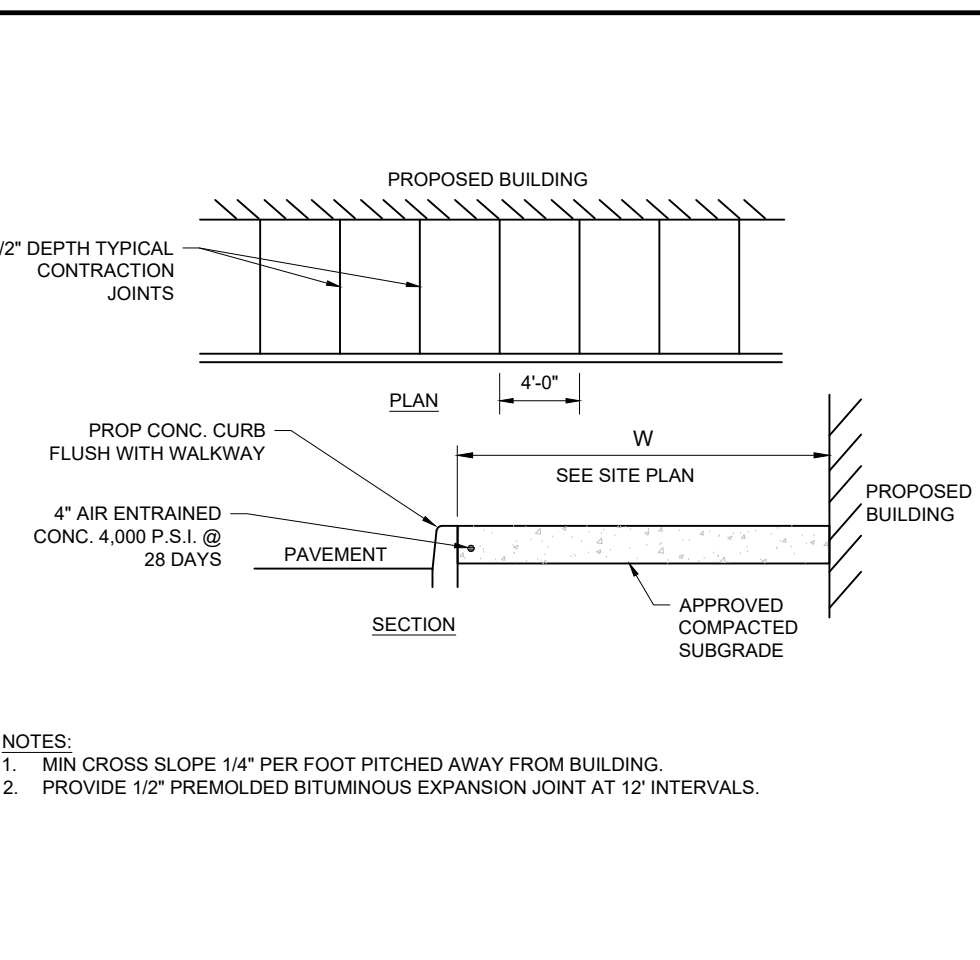
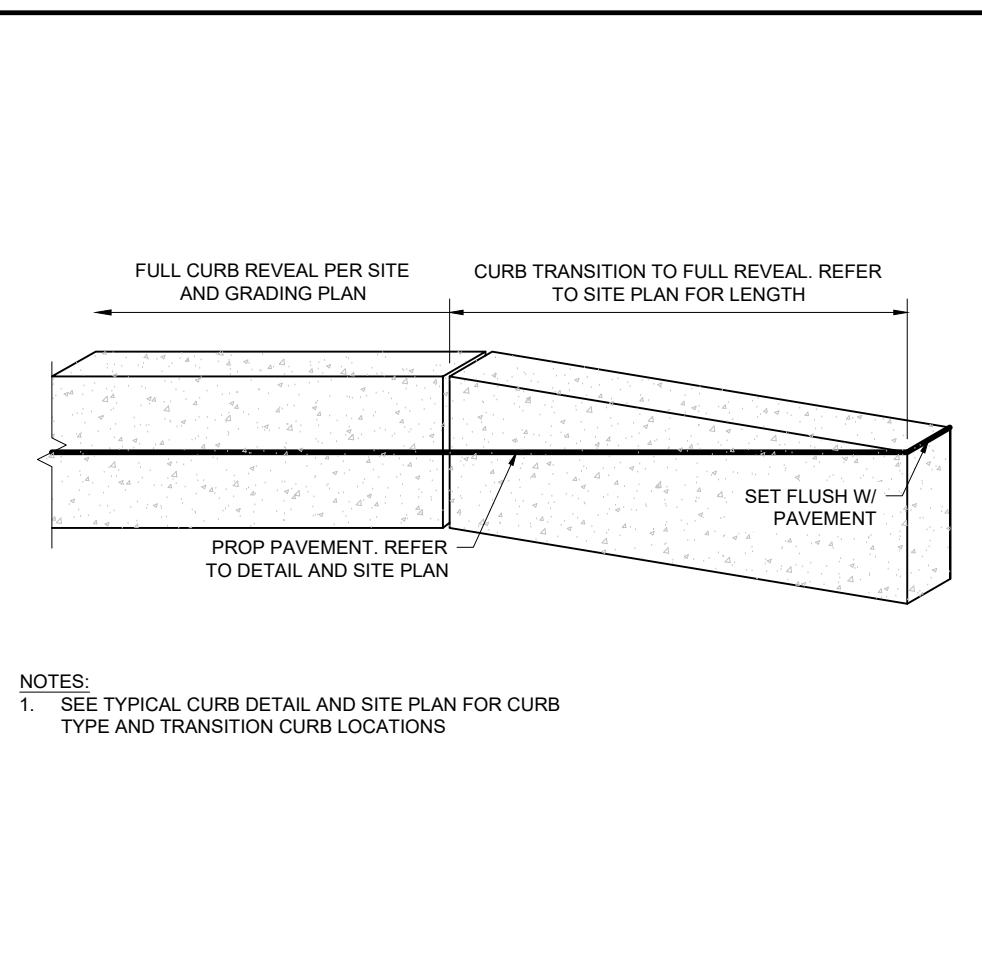
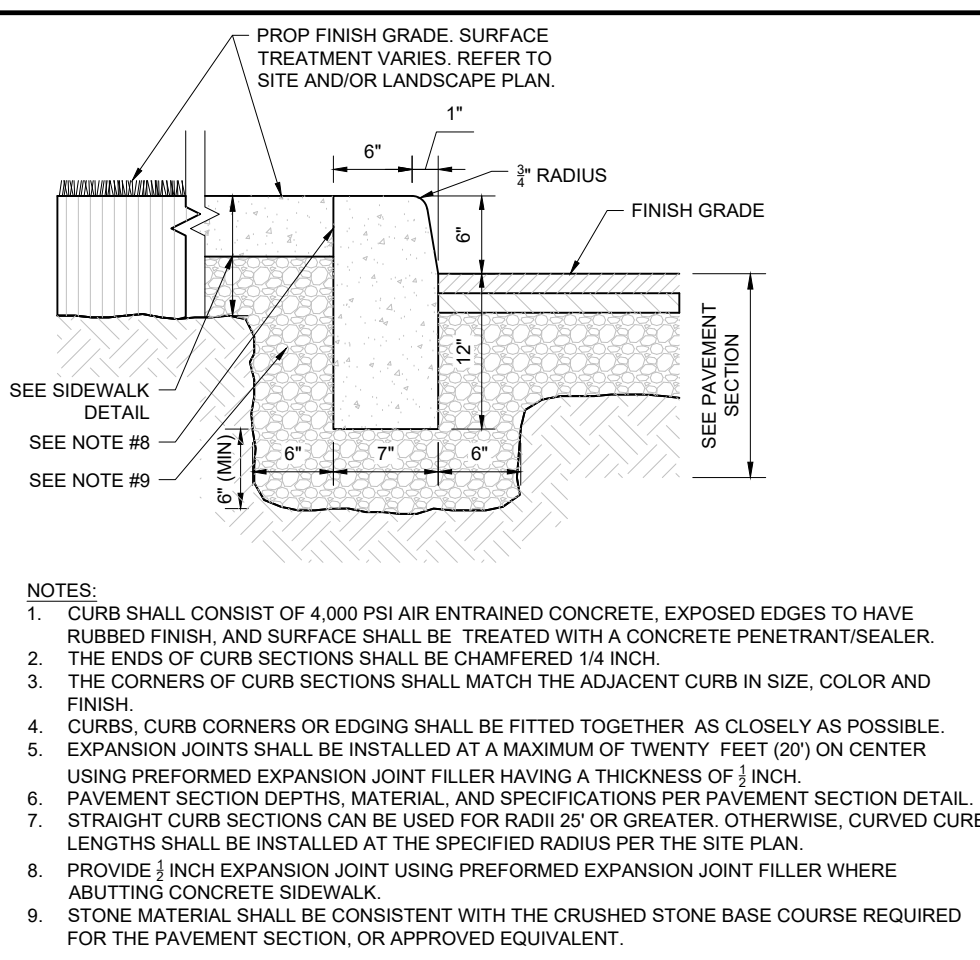
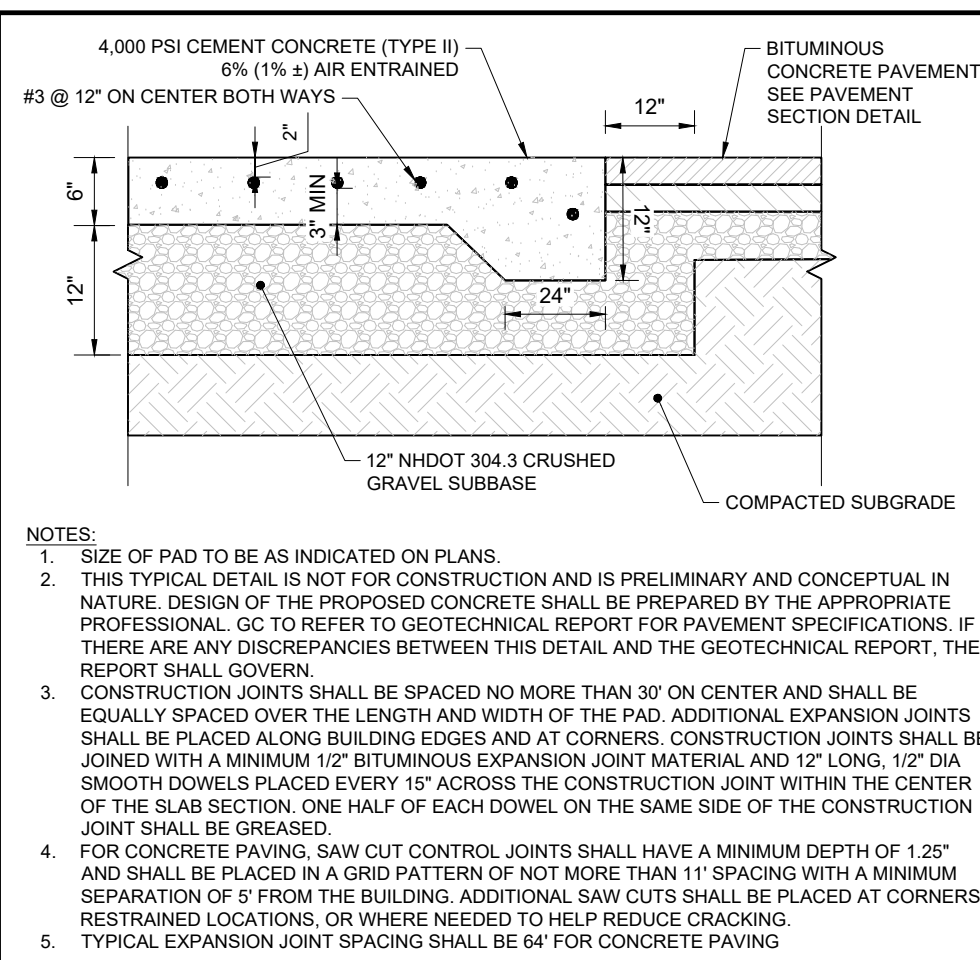
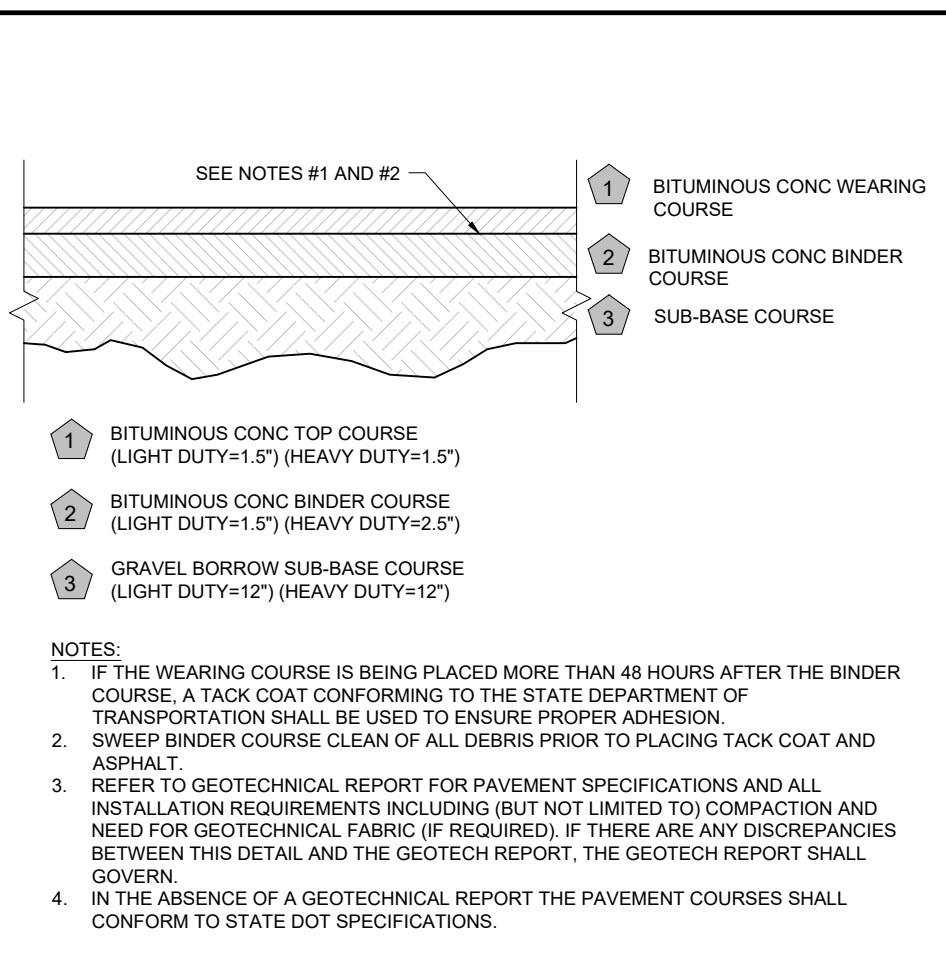
## SHEET TITLE: EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

SHEET NUMBER:

# C-802

REVISION 2 - 05/12/2026

MAY 14, 2026 P:\MAY2026\NH250020.01\CADD\DRAWINGS\PLAN SET\CIVIL SITE PLANS\SP-CIVL-CND5-NH250020.01-2A.dwg - LAYOUT - C-802.ERD



**BOHLER**  
SITE CIVIL AND CONSULTING ENGINEERING  
LAND SURVEYING  
PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

**REVISIONS**

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/24/2026	TOWN & PEER REVIEW COMMENTS	MJW	KWC
2	05/12/2026	TOWN COMMENTS	MJW	KWC

**811**  
Know what's below. Call before you dig. ALWAYS CALL 811. It's fast. It's free. It's the law.

**PERMIT SET**  
THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: NHA250020-01-2A  
DRAWN BY: MJW  
CHECKED BY: KWC  
DATE: 01/23/2026  
CAD I.D.: P-CIVL-CNDS

**SITE DEVELOPMENT PLANS**  
FOR  
**Where Restaurants Eat**  
PROPOSED RESTAURANT DEPOT

273 LOWELL ROAD  
HUDSON, NEW HAMPSHIRE  
PARCEL ID: 234-034-000

**BOHLER**  
3 EXECUTIVE PARK DRIVE FLOOR 2  
BEDFORD, NH 03110  
Phone: (603) 441-2900  
www.BohlerEngineering.com

Professional Engineer Seal for John A. Bohlert, License No. 15476, State of New Hampshire.

SHEET TITLE:  
**CONSTRUCTION DETAILS**

SHEET NUMBER:  
**C-901**

REVISION 2 - 05/12/2026

May 11, 2026 P:\M\2025\NHA250020-01\CAD\DRAWINGS\PLAN SET\CIVIL SITE PLANS\PC-CIVL-CNDS\NHA250020-01-2A-...-LAYOUT-C-901 (DET).DWG

**REVISIONS**

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/24/2026	TOWN & PEER REVIEW COMMENTS	MJW	KWC
2	05/12/2026	TOWN COMMENTS	MJW	KWC

**811**  
 Know what's below.  
 Call before you dig.  
 ALWAYS CALL 811  
 It's fast. It's free. It's the law.

**PERMIT SET**  
 THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: NH250020.01-2A  
 DRAWN BY: MJW  
 CHECKED BY: KWC  
 DATE: 01/23/2026  
 CAD I.D.: P-CIVL-CNDS

**SITE DEVELOPMENT PLANS**  
 FOR  
**PROPOSED RESTAURANT DEPOT**

273 LOWELL ROAD  
 HUDSON, NEW HAMPSHIRE  
 PARCEL ID: 234-034-000

**BOHLER**  
 3 EXECUTIVE PARK DRIVE FLOOR 2  
 BEDFORD, NH 03110  
 Phone: (603) 441-2900  
 www.BohlerEngineering.com

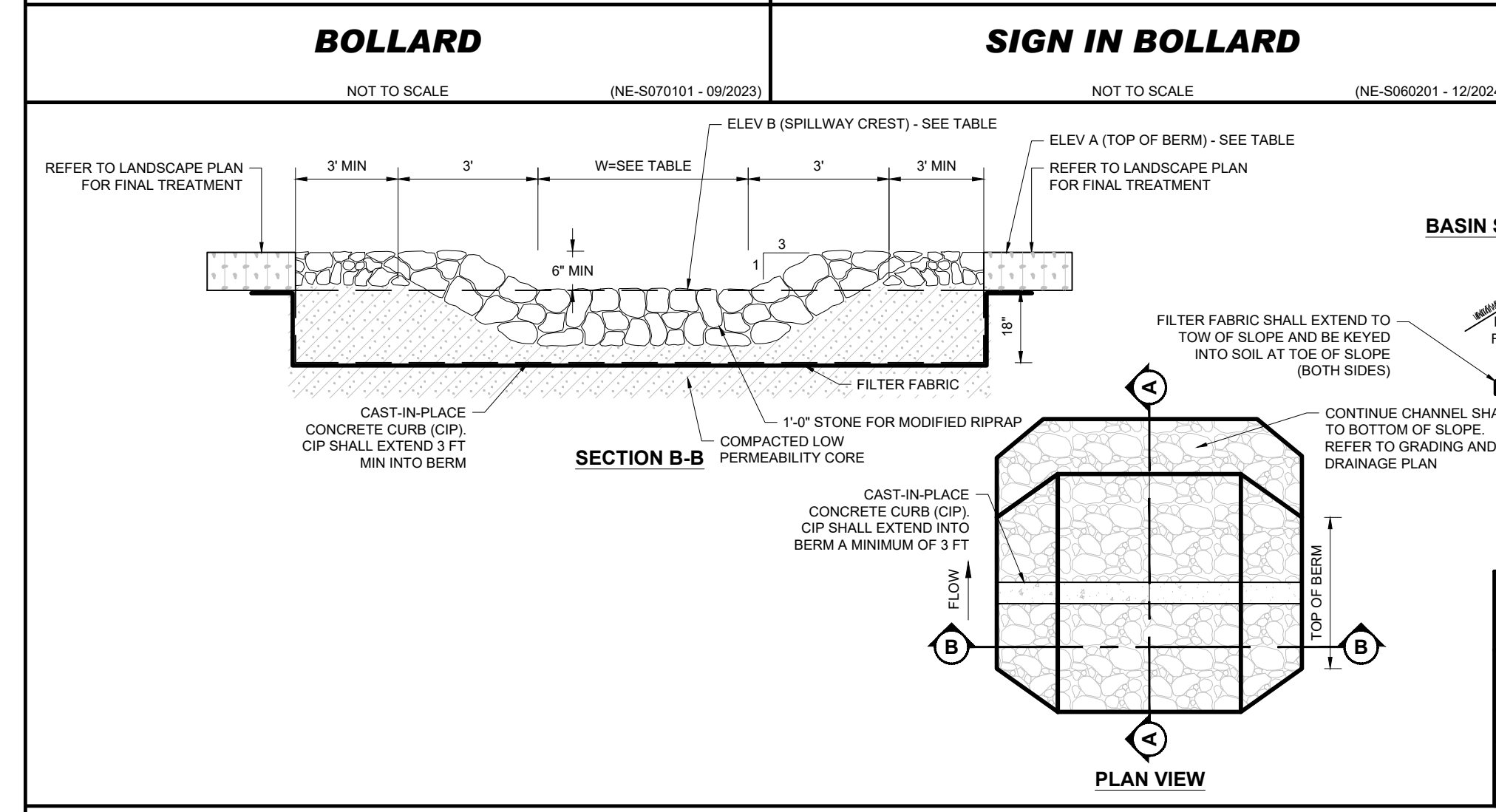
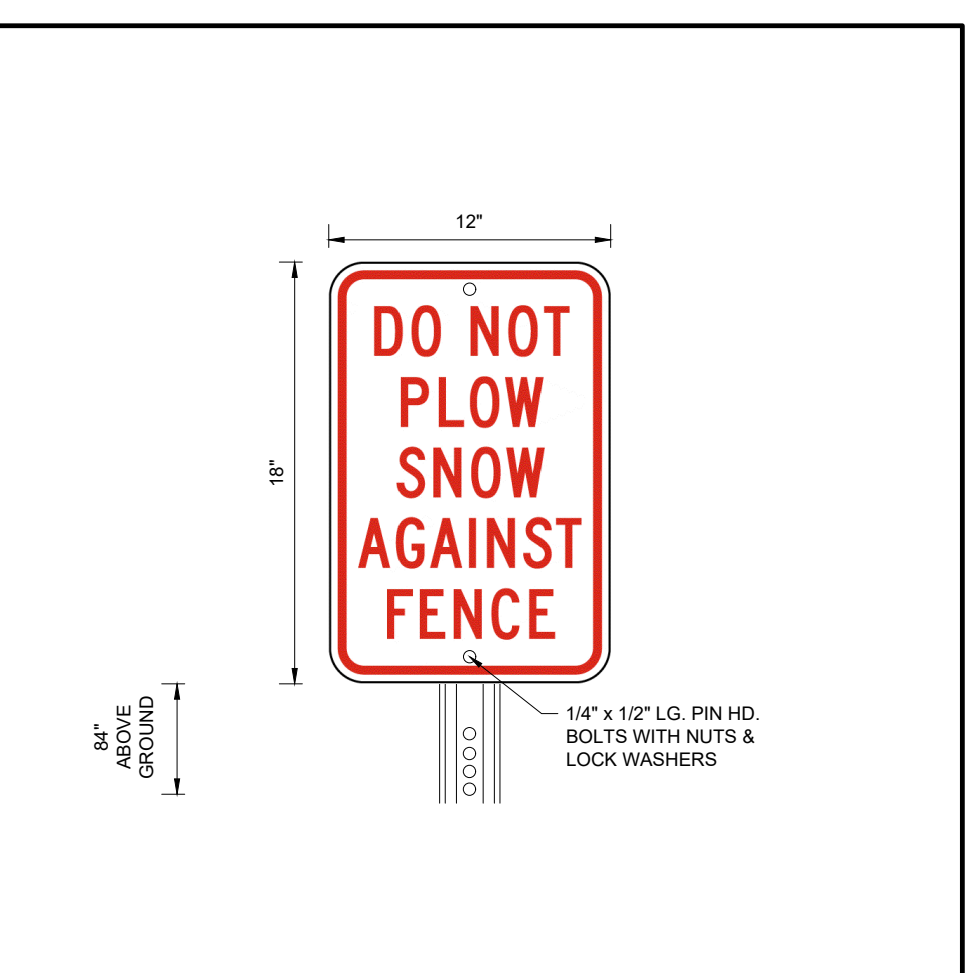
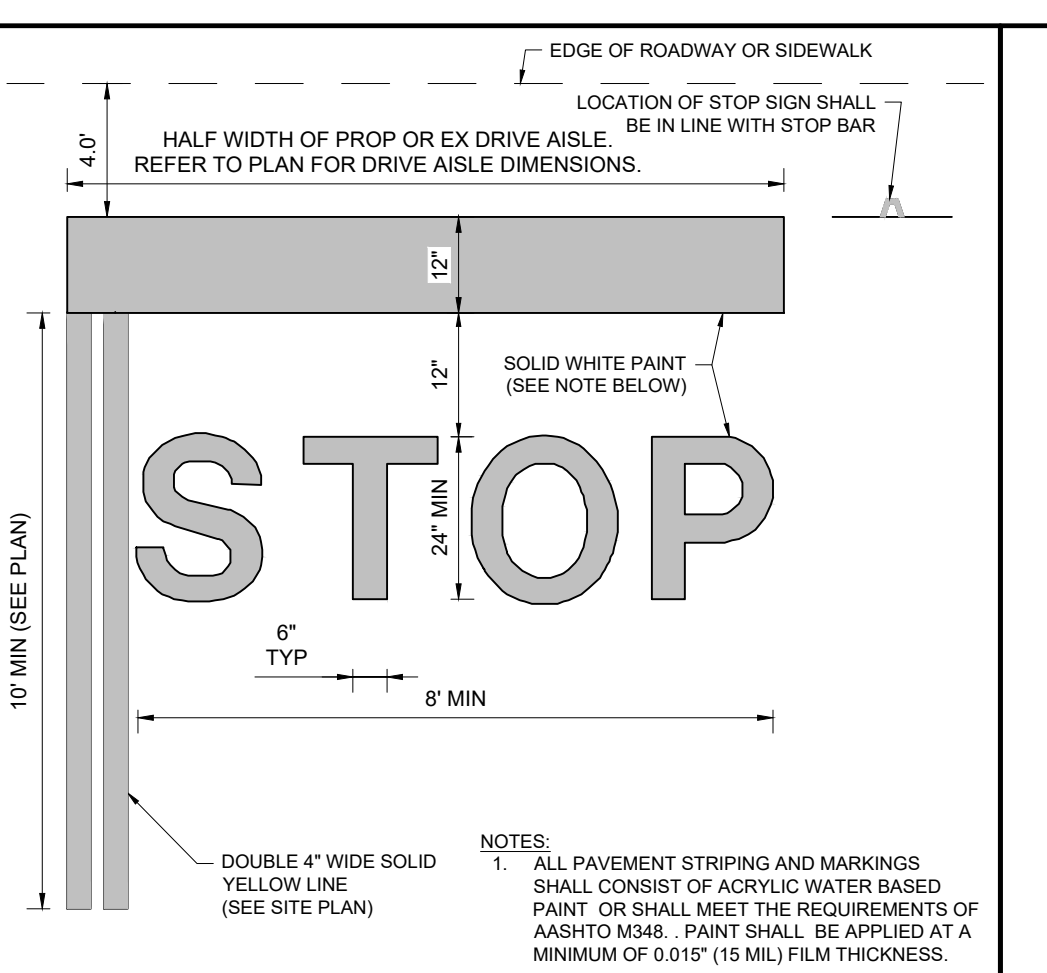
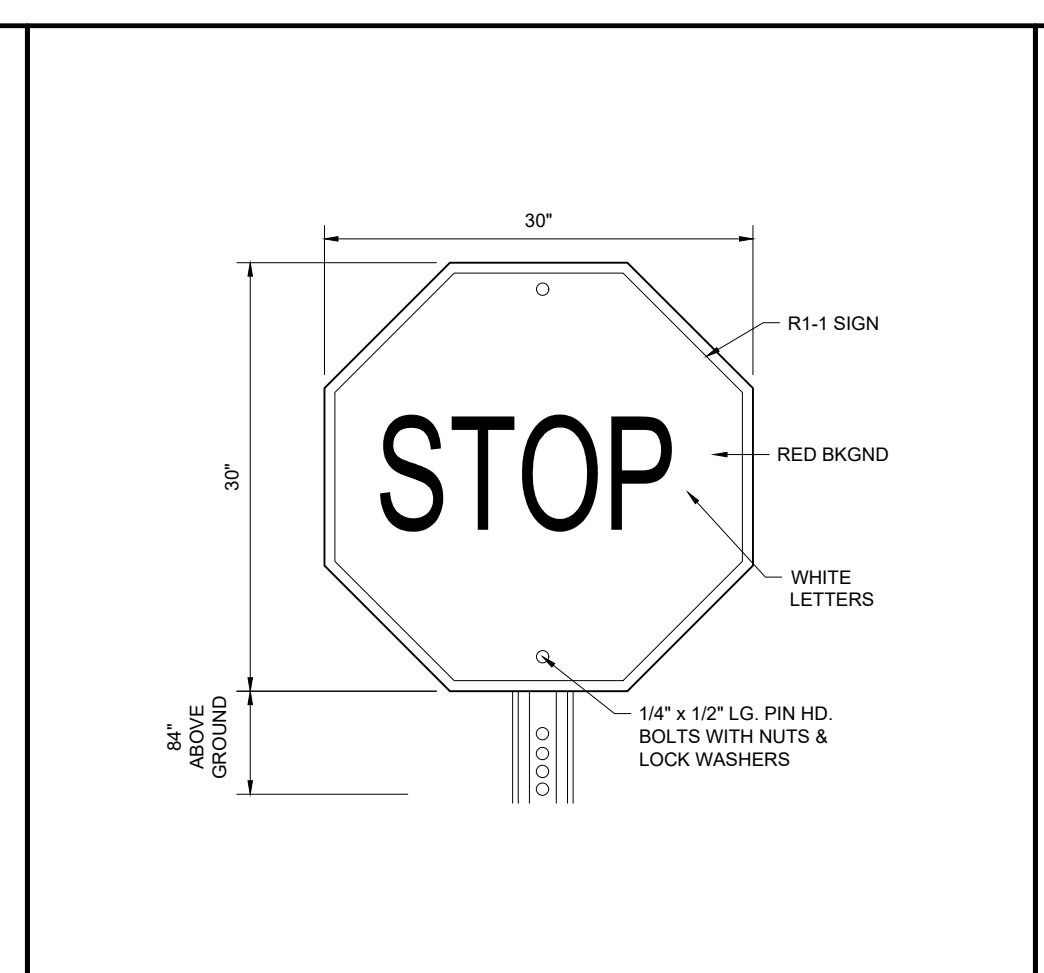
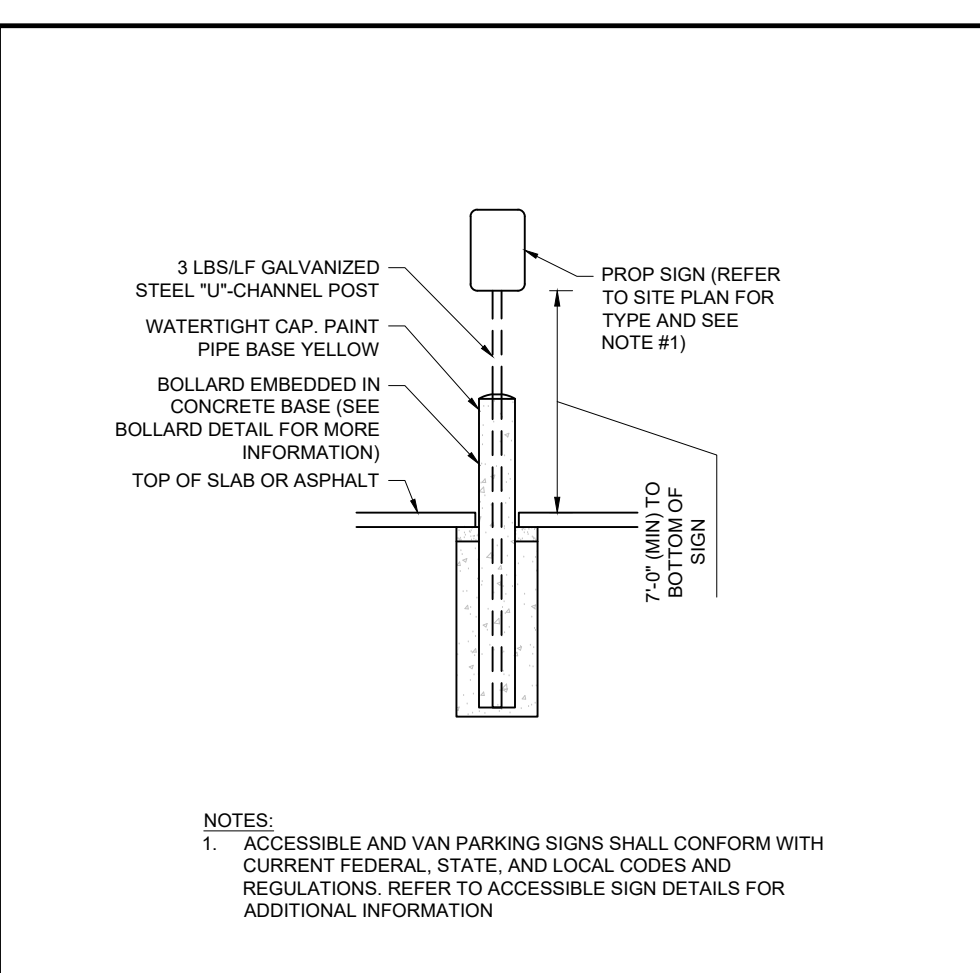
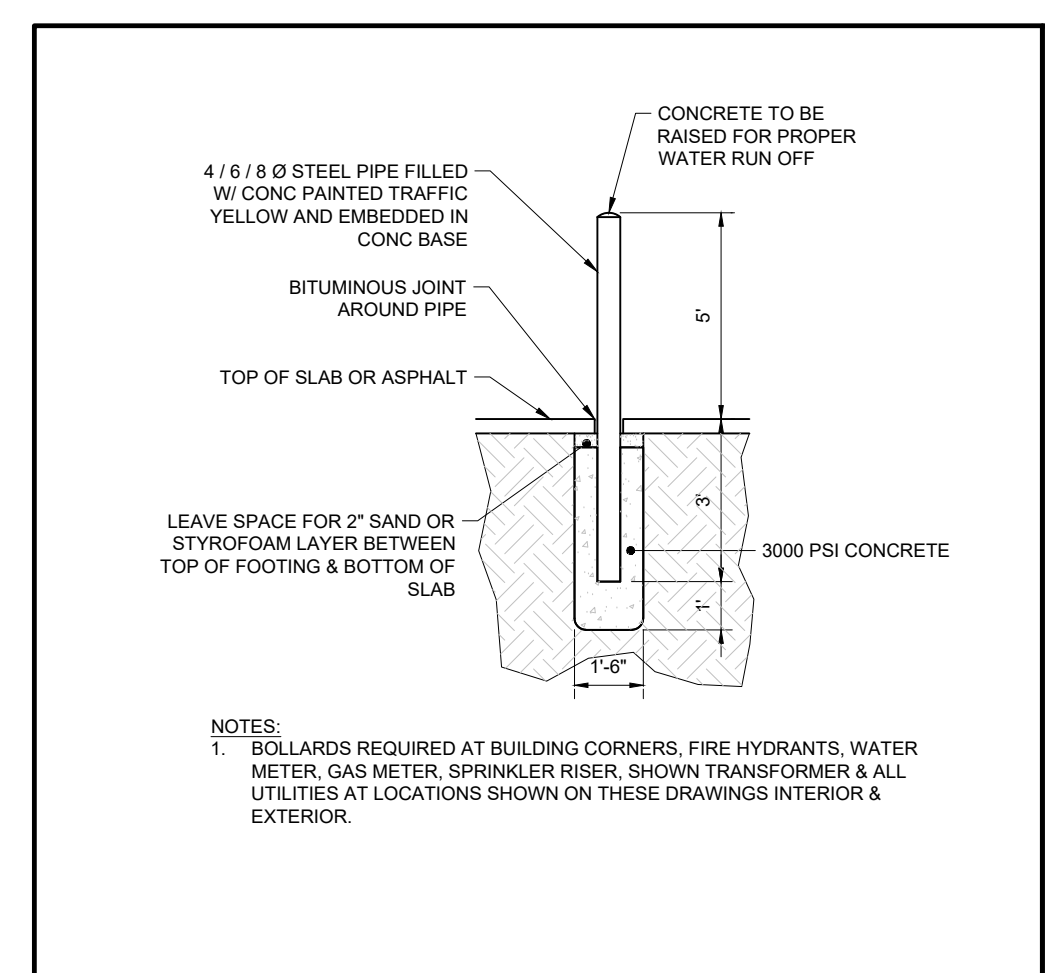
Professional Engineer Seal for Joseph J. Truitt, State of New Hampshire, License No. 15476, Exp. 12/31/2026.

**CONSTRUCTION DETAILS**

SHEET TITLE:  
**15 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL**

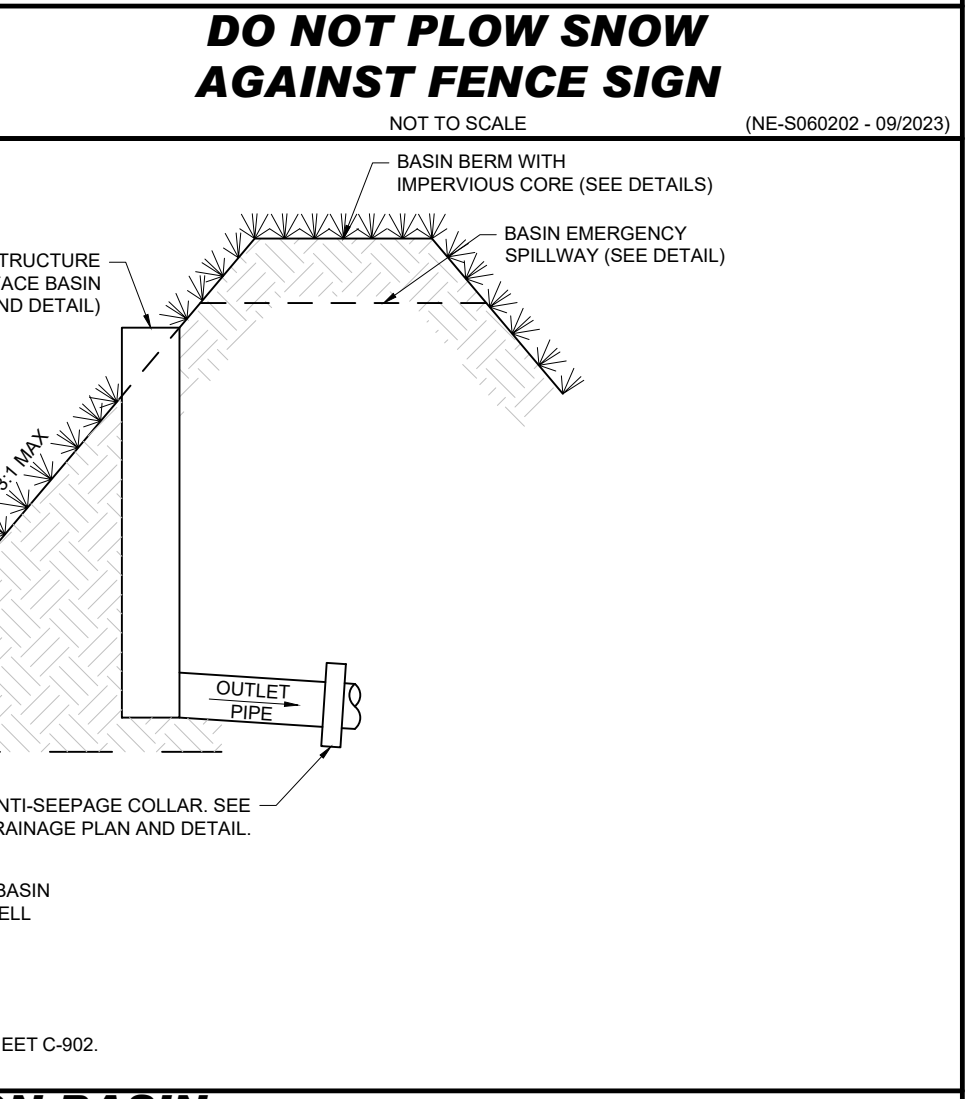
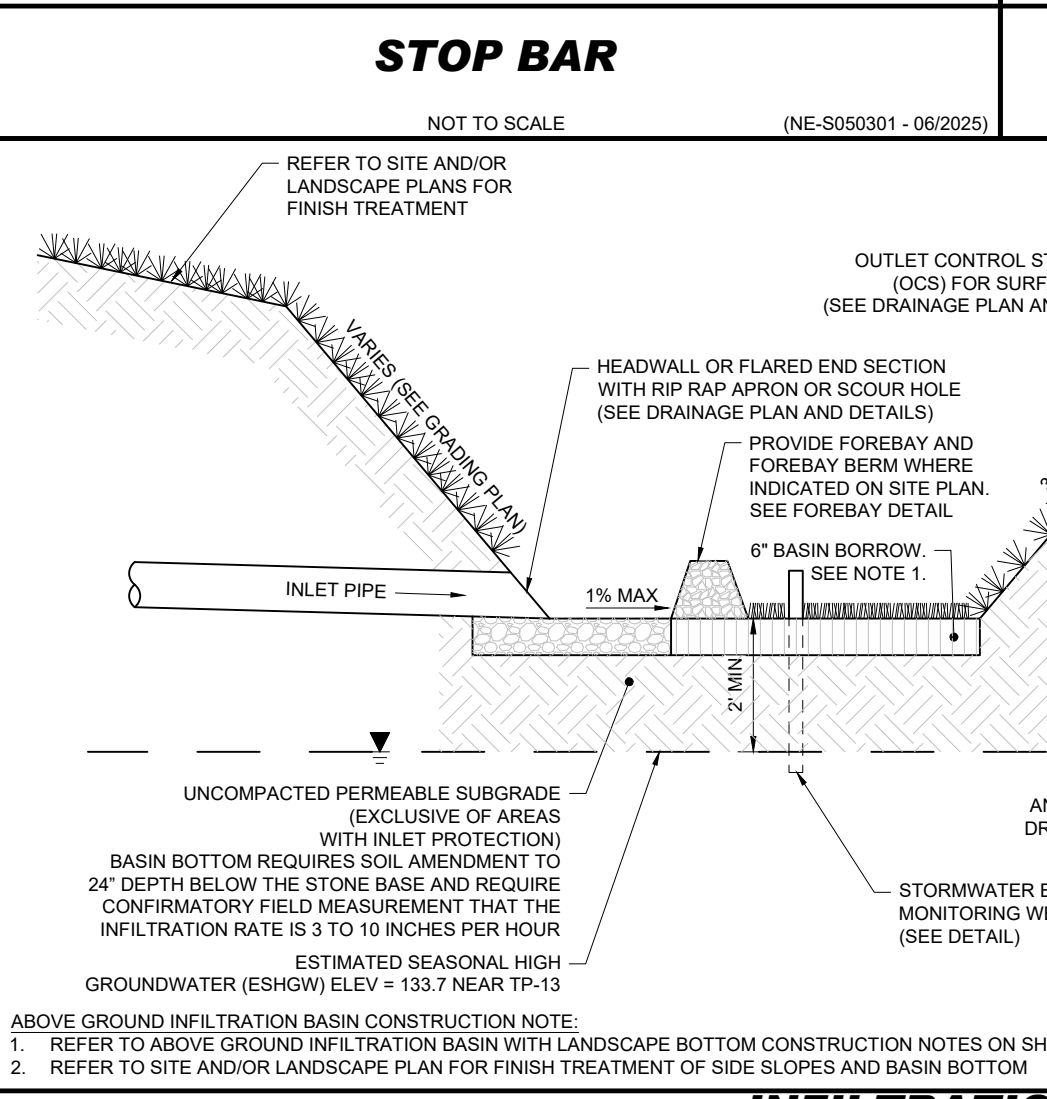
SHEET NUMBER:  
**C-902**

REVISION 2 - 05/12/2026



**SPILLWAY DIMENSIONS AND ELEVATIONS**

BASIN	TOP OF BERM ELEV A (FT)	SPILLWAY CREST ELEV B (FT)	WIDTH (W) OF SPILLWAY (FT)
P1.1	140.75	139.75	10.0



1. THE CONTRACTOR SHALL ENSURE THAT PROPER PRECAUTIONS ARE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE INFILTRATION AREA DURING CONSTRUCTION.

2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IMMEDIATELY IF SOIL CONDITIONS ENCOUNTERED IN THE FIELD DIFFER FROM WHAT IS SHOWN HEREON. SUCH CONDITIONS COULD RENDER THE DESIGN HEREON INAPPROPRIATE OR INEFFECTIVE.

3. DURING CONSTRUCTION:

- DURING CLEARING AND GRADING OF THE SITE, MEASURES MUST BE TAKEN TO ELIMINATE SOIL COMPACTION AT THE LOCATION OF THE PROPOSED INFILTRATION BASIN.
- THE LOCATION OF THE PROPOSED INFILTRATION BASIN MUST BE CORRODED OFF DURING CONSTRUCTION TO PREVENT COMPACTION OF THE SUBSOIL BY CONSTRUCTION EQUIPMENT OR STOCKPILES. EXCAVATION AND CONSTRUCTION OF THE INFILTRATION BASIN MUST BE PERFORMED USING EQUIPMENT PLACED OUTSIDE THE LIMITS OF THE BASIN. IF THE SIZE OF THE BASIN PRECLUDES THIS APPROACH, EXCAVATION MUST BE PERFORMED FROM THE INSIDE-OUT SUCH THAT ALL EQUIPMENT UTILIZED WITHIN THE BASIN IS AT LEAST TWO (2) FEET ABOVE THE FINAL EXCAVATION DEPTH.
- EXCAVATION OF BASIN MUST EXTEND A MINIMUM OF SIX (6) INCHES BELOW THE BASIN BOTTOM IF IMPORTED MATERIAL IS TO BE UTILIZED FOR BASIN BORROW MATERIAL.
- ALL EXISTING TOP SOIL SHALL BE REMOVED FROM BENEATH THE BOTTOM OF THE BASIN AND THE BOTTOM OF THE EARTH BERM MATERIAL THAT IS REMOVED MUST BE REPLACED IN ACCORDANCE WITH THIS DETAIL AND/OR PROJECT SPECIFICATION. IMPORTED MATERIAL MUST BE FREE OF DEBRIS AND OTHER DELETERIOUS MATERIAL. MATERIAL MUST BE PLACED TO AVOID COMPACTION OF SOILS AND ALLOW FOR INFILTRATION OF STORMWATER.
- THE USE OF THE LOCATION PROPOSED FOR AN INFILTRATION BASIN AS A SEDIMENT BASIN DURING CONSTRUCTION IS STRICTLY PROHIBITED UNLESS OTHERWISE NOTED ON THE PLANS.
- THE BASIN BOTTOM SHALL BE CLEARED OF SEDIMENT AND UNSUITABLE MATERIALS MUST BE REMOVED PRIOR TO FINAL EXCAVATION. THE EXCAVATION TO FINAL SUBSOIL DEPTH AND INSTALLATION OF THE BASIN BORROW MATERIAL, IF APPLICABLE, TO THE FINAL DESIGN ELEVATION OF THE INFILTRATION BASIN BOTTOM MAY ONLY OCCUR AFTER ALL SITE CONSTRUCTION WITHIN ITS DRAINAGE AREA IS COMPLETED AND THE DRAINAGE AREA, INCLUDING THE BASIN SIDE SLOPES, IS STABILIZED.
- SHOULD CONSTRUCTION SEQUENCING NOT ALLOW FOR TEMPORARY STORMWATER MANAGEMENT MEASURES TO BE INSTALLED PRIOR TO BASIN CONSTRUCTION, SEDIMENT BARRIERS MUST BE PLACED AROUND THE ENTIRE PERIMETER OF THE BASIN DURING ALL PHASES OF CONSTRUCTION TO DIVERT ALL FLOWS AWAY FROM THE BASIN. INLET FOREBAYS (CONSTRUCTED USING SEDIMENT BARRIERS) MUST BE PLACED AROUND ALL BASIN INLET PIPES. THE SEDIMENT BARRIERS REQUIRED HEREIN MAY NOT BE REMOVED UNTIL ALL SITE CONSTRUCTION WITHIN THE BASIN DRAINAGE AREA IS COMPLETED, AND THE DRAINAGE AREA, INCLUDING THE BASIN SIDE SLOPES, IS STABILIZED.
- IF APPLICABLE, EXCAVATIONS TO REMOVE EXISTING HYDRAULICALLY RESTRICTIVE MATERIAL BELOW THE BASIN SHALL EXTEND A MINIMUM OF TWO (2) FEET BELOW SAID RESTRICTIVE MATERIAL AND REMOVAL OF THE MATERIAL SHALL BE WITNESSED AND CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER.
- REPLACEMENT OF OVER EXCAVATED MATERIAL MUST CONSIST OF COARSE SAND IN ACCORDANCE WITH AASHTO M-4 OR ASTM C-33, MEETING AGGREGATE GRADATION SIZE NO. 10 (AASHTO M-43), AND MEETING A MINIMUM TESTED PERMEABILITY RATE OF 8.27 INCHES PER HOUR, AS CERTIFIED BY AN ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE. CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD A SUBMITTAL CONFIRMING THE ABOVE REQUIREMENTS ARE MET.
- ONCE THE FINAL GRADING PHASE OF A SURFACE INFILTRATION BASIN IS REACHED, THE BOTTOM OF THE BASIN MUST BE DEEPLY TILLED WITH A ROTARY TILLER OR DISC HARROW AND THEN SMOOTHED OUT WITH A LEVELING DRAG OR EQUIVALENT GRADING EQUIPMENT. THESE PROCEDURES SHOULD PREFERABLY BE PERFORMED WITH EQUIPMENT LOCATED OUTSIDE THE BASIN BOTTOM. IF THIS IS NOT POSSIBLE, IT SHOULD BE PERFORMED WITH LIGHT WEIGHT, RUBBER-TYRED EQUIPMENT OR EQUIVALENT.
- INFILTRATION BASIN BORROW MATERIAL SPECIFICATION: LOAMY SAND AS PLOTTED ON THE NRCS SOIL TEXTURAL TRIANGLE WITH A MINIMUM TESTED PERMEABILITY OF 3.00 INCHES PER HOUR, AS CERTIFIED BY AN ENGINEER LICENSED IN THE STATE OF NEW HAMPSHIRE. CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD A SUBMITTAL CONFIRMING THE ABOVE REQUIREMENTS ARE MET.
- THE GATE VALVE, IF APPLICABLE, SEE DETAIL WITHIN THE OUTLET CONTROL STRUCTURE SHALL REMAIN CLOSED AT ALL TIMES, EXCEPT FOR PERIODS OF MAINTENANCE.

4. POST-CONSTRUCTION:

- UPON COMPLETION OF THE BASIN, THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD WITH AN AS-BUILT TOPOGRAPHIC SURVEY OF THE BASIN PREPARED BY A STATE OF NEW HAMPSHIRE LICENSED PROFESSIONAL SURVEYOR. THE SURVEY SHALL INCLUDE ALL INFORMATION NECESSARY FOR THE ENGINEER OF RECORD TO REVIEW AND CONFIRM THE BASIN DESIGN INCLUDING, BUT NOT LIMITED TO, CONTOURS IN ONE-FOOT INTERVALS OF THE ENTIRE BASIN AND FOREBAY (IF APPLICABLE), TOP OF BERM ELEVATIONS, EMERGENCY BASIN SPILLWAY LOCATIONS AND ELEVATIONS, BOTTOM OF BASIN ELEVATIONS, AND ALL INFORMATION PERTAINING TO THE OUTLET CONTROL STRUCTURE(S) AND/OR OUTLET PIPES, INCLUDING ORIFICE AND WEIR SIZES AND ELEVATIONS AS APPLICABLE. ADDITIONALLY, THE OUTLET PIPE AND IMMEDIATE DOWNSTREAM DRAINAGE STRUCTURE(S) UP TO AND INCLUDING THE POINT OF DISCHARGE SHALL BE INCLUDED IN THE AS-BUILT SURVEY.

**ABOVE GROUND INFILTRATION BASIN WITH LANDSCAPE BOTTOM CONSTRUCTION NOTES**  
 NOT TO SCALE (NE-G010305 - 11/2025)

**APPROVAL BLOCK**

APPROVED BY THE HUDSON, NH PLANNING BOARD  
 DATE OF MEETING:

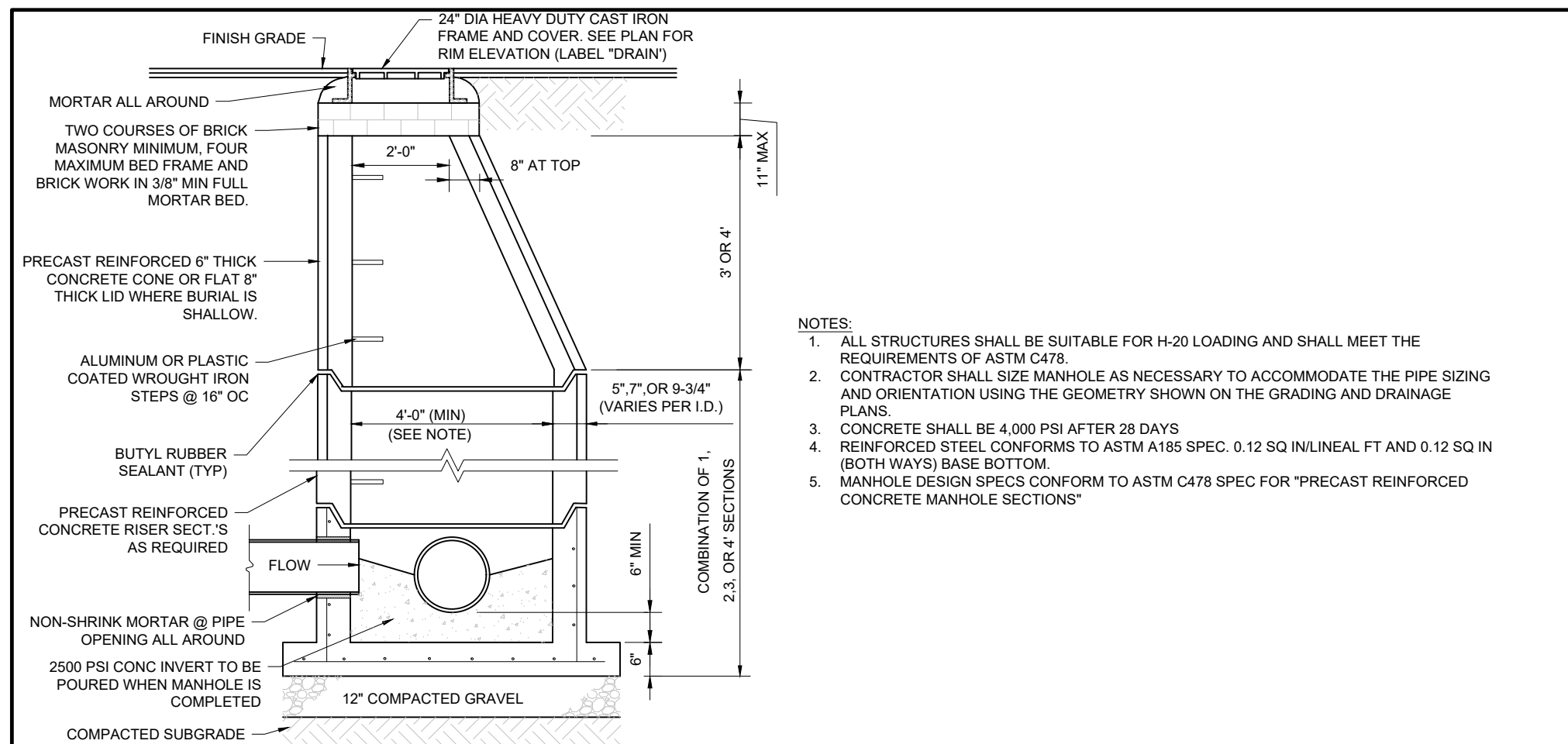
PLANNING BOARD CHAIRMAN	SIGNATURE DATE
PLANNING BOARD SECRETARY	SIGNATURE DATE

SITE PLANS ARE VALID FOR TWO YEARS 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.

**NOTES REGARDING DETAILS BY OTHERS:**

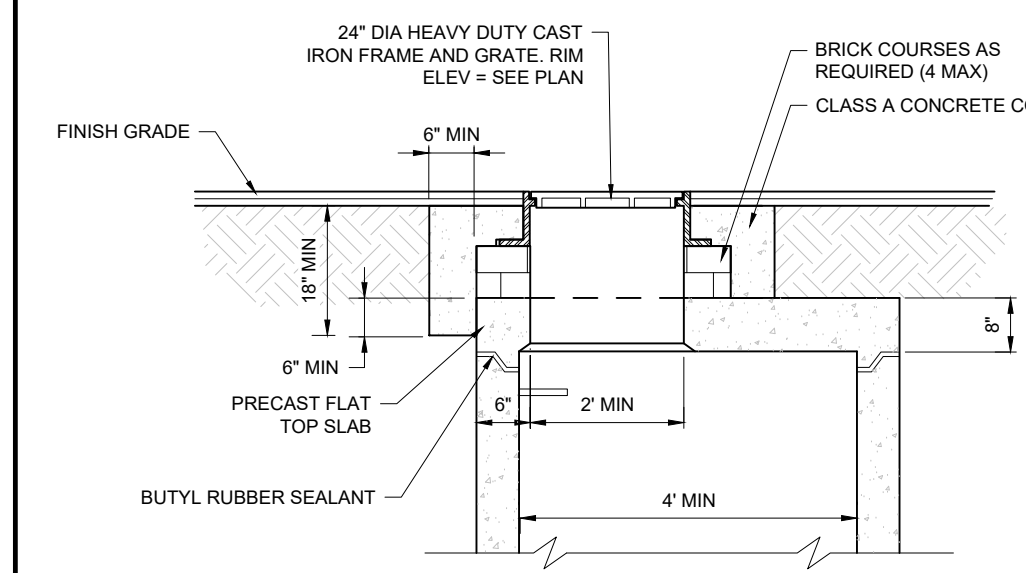
- DETAILS PREPARED BY OTHERS ARE IDENTIFIED AS SUCH BY WAY OF A TITLE BLOCK, REFERENCE, LOGO, OR OTHER NOTATION.
- WHERE AN ORIGINAL DETAIL BY OTHERS HAS BEEN MODIFIED, THE MODIFICATIONS ARE IDENTIFIED BY REVISION CLOUDS.
- REFER TO OUTSIDE SOURCE NOTES ON THE GENERAL NOTES AND LEGEND SHEET.
- WHEN THE SOURCE OF THE DETAIL IS A REVIEWING/REGULATORY AGENCY, FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS AND SPECIFICATIONS. WHEN APPROPRIATE, SHOP DRAWINGS SHALL BE FORWARDED TO THE REVIEWING/REGULATORY AGENCY PRIOR TO FABRICATION.

**DETAILS BY OTHERS DISCLAIMER**

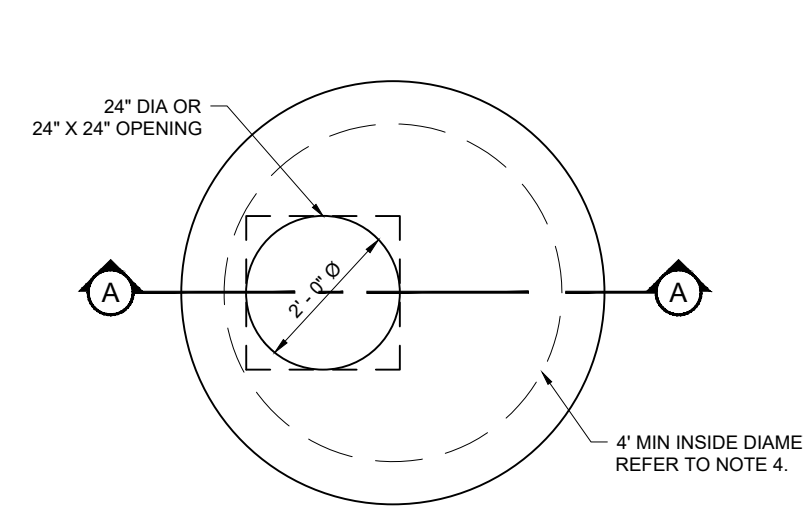


**PRECAST CONCRETE STORM DRAIN MANHOLE**

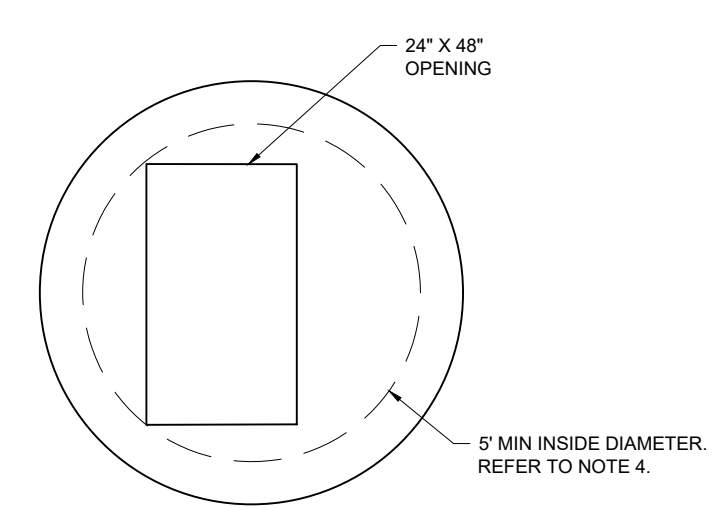
NOT TO SCALE (NE-U010101 - 11/2024)



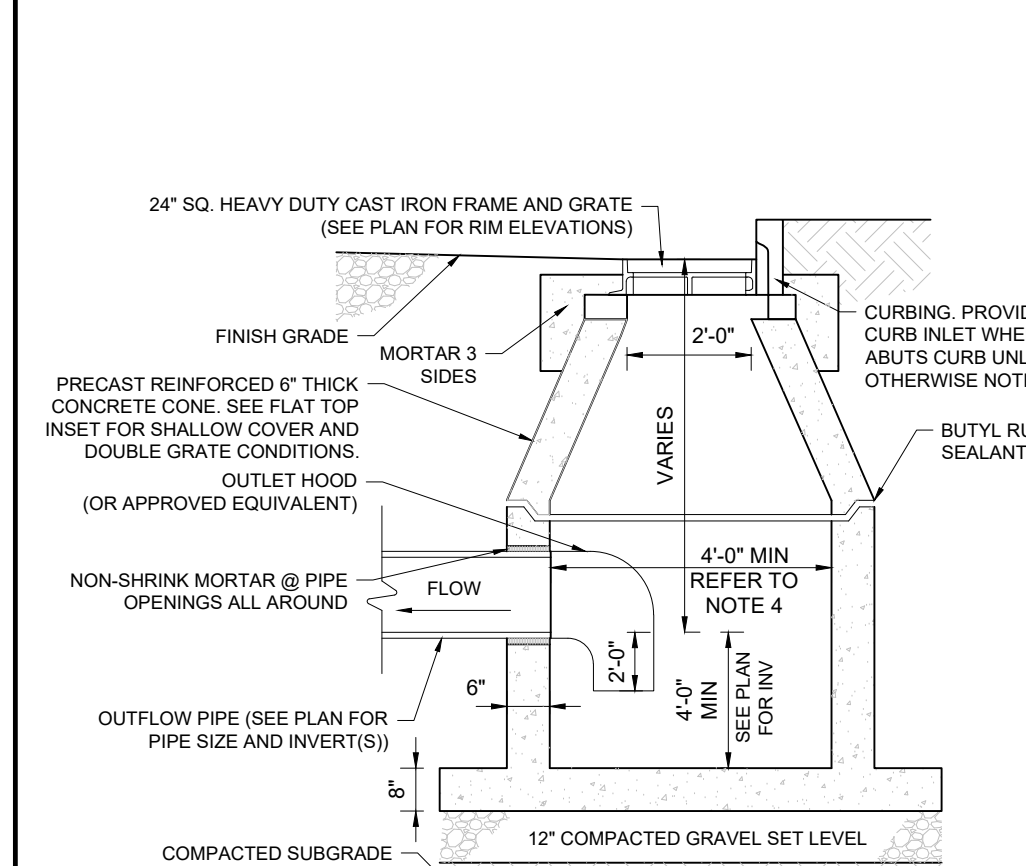
**PRECAST FLAT SLAB TOP OPTION**



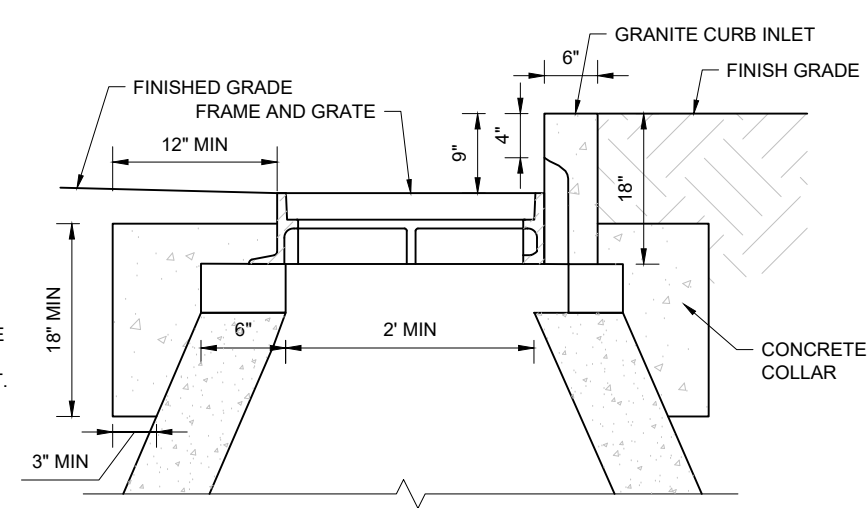
**PLAN VIEW: SINGLE GRATE TOP SLAB**



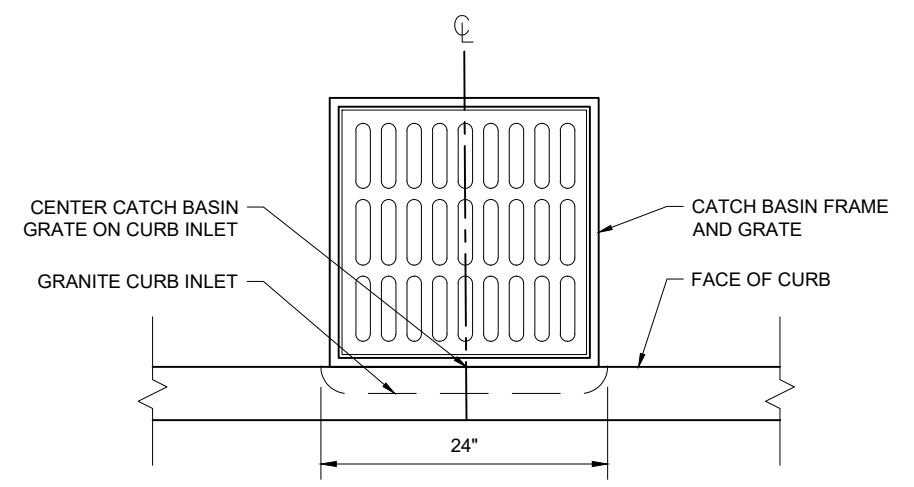
**PLAN VIEW: DOUBLE GRATE TOP SLAB**



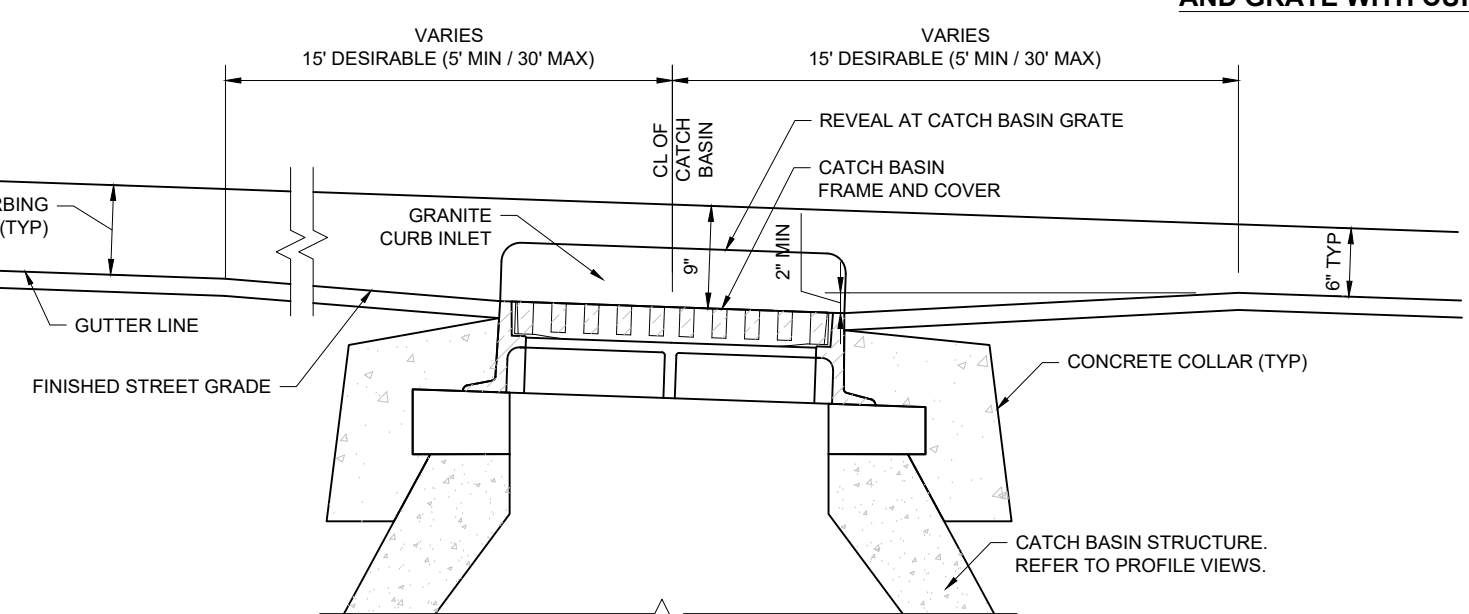
**PROFILE VIEW: PRECAST CONCRETE CATCH BASIN**



**PROFILE VIEW: CURB INLET INSET**



**PLAN VIEW: CATCH BASIN FRAME AND GRATE WITH CURB INLET**



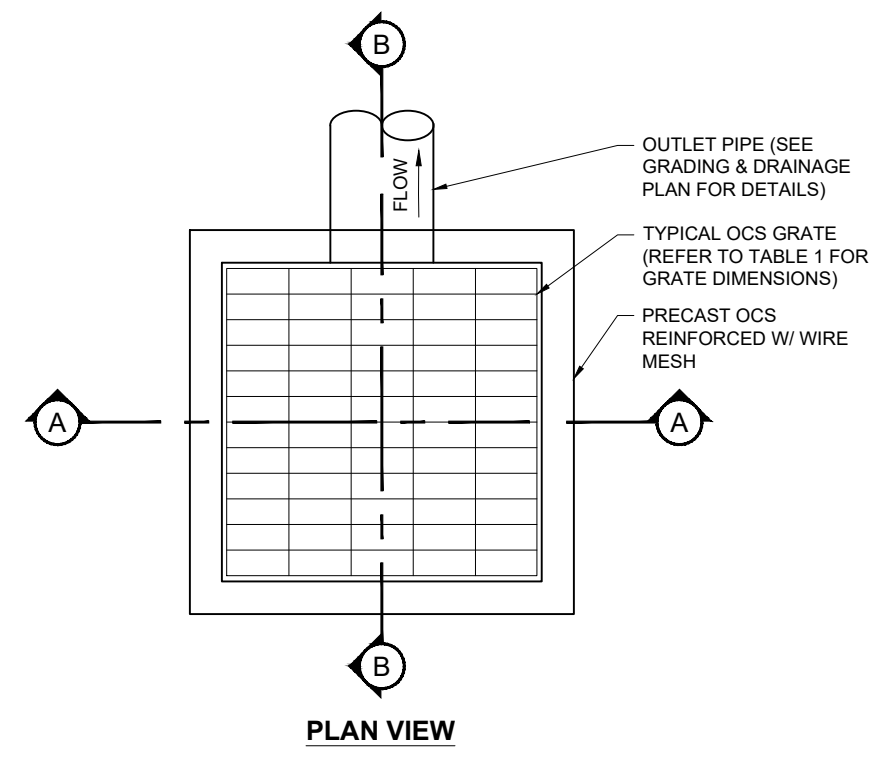
**PROFILE VIEW: ALONG GUTTER LINE**

**PRECAST CONCRETE CATCH BASIN**

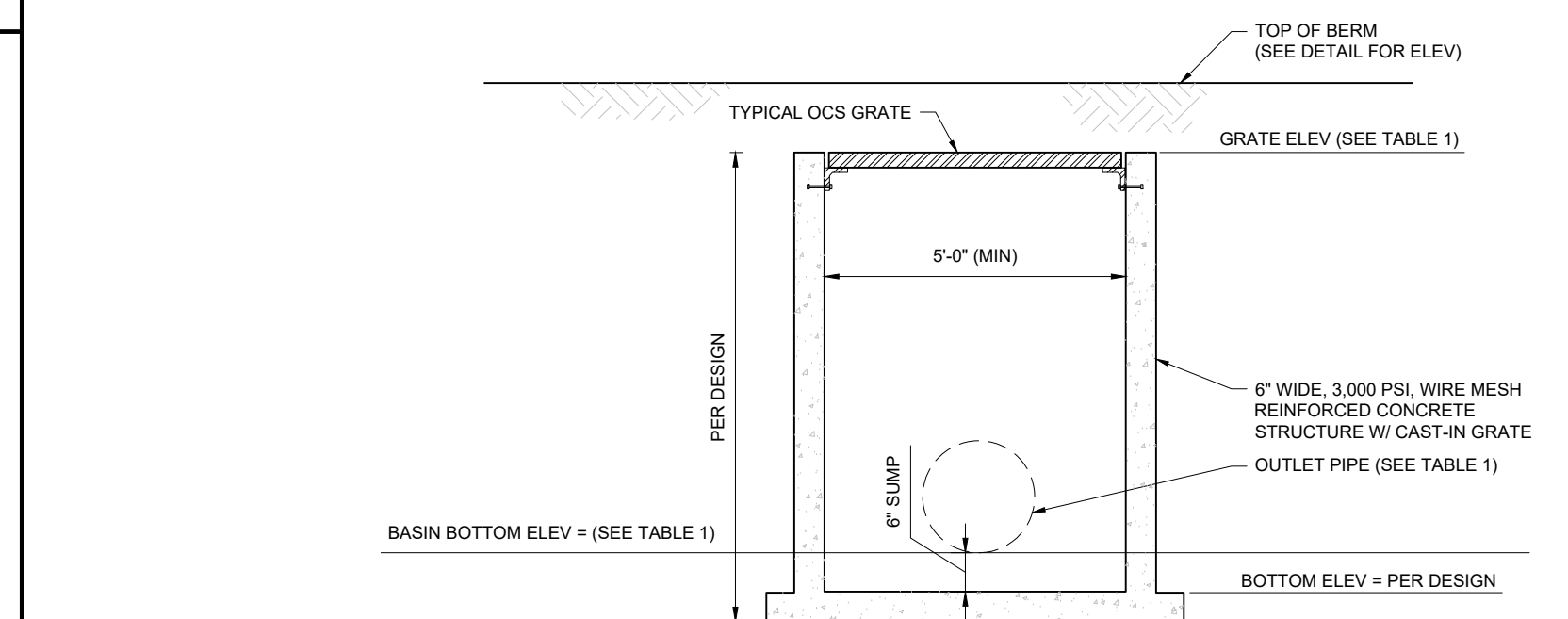
NOT TO SCALE

(NE-U010201 - 11/2025)

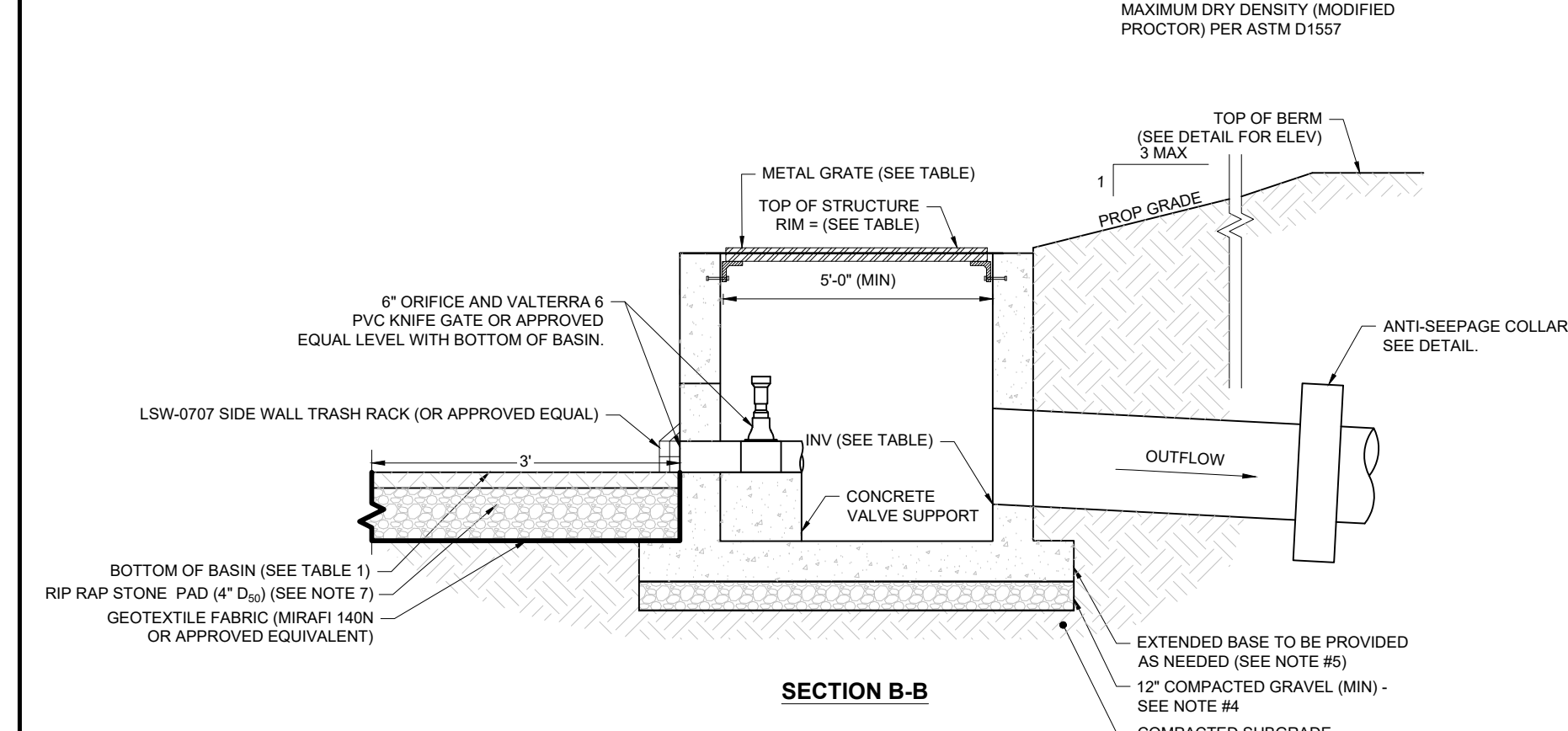
BASIN #	OCS #	GRATE ELEV	GRATE SIZE (IN)	ORIFICE SIZE (IN)	ORIFICE INV	OUTLET PIPE SIZE (IN)	OUTLET INV	BOTTOM BASIN ELEV
P1.1	B-20A	139.63	60X60	N/A	N/A	12	136.70	136.70



**PLAN VIEW**



**SECTION A-A**



**SECTION B-B**

- NOTES:**
- CONTRACTOR TO SUBMIT SHOP DRAWING TO ENGINEER (BOHLER) FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
  - IF COMPONENTS ARE PRECAST AND ATTACHED IN THE FIELD ALL JOINTS TO BE FILLED WITH NON-SHRINK GROUT. ANY BOLTS AND/OR STRAPS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.
  - GENERAL CONTRACTOR TO CONSTRUCT CONCRETE OUTLET CONTROL STRUCTURE IN BASIN BERM TO MINIMIZE VISUAL REVEAL OF CONCRETE.
  - IN LOCATIONS WHERE UTILITY TRENCHING / EXCAVATION ENCOUNTERS SUBGRADE CONDITIONS CONSISTING OF FILL OR UNSUITABLES / ORGANICS, 3'-0" OF MATERIAL SHALL BE OVER-EXCAVATED BELOW THE PIPE / STRUCTURE INVERT. TRENCH SHALL THEN BE BACKFILLED WITH CRUSHED STONE WRAPPED IN FILTER FABRIC.
  - PRIOR TO FABRICATION CONTRACTOR SHALL PREPARE BUOYANCY CALCULATIONS AND SUBMIT DETAIL TO DESIGN ENGINEER ACCOUNTING FOR PROPER BUOYANCY PROVISIONS BASED ON SITE SPECIFIC GROUNDWATER CONDITIONS.
  - CONTRACTOR SHALL SIZE STRUCTURE AS NECESSARY TO ACCOMMODATE THE PROPOSED PIPE SIZES AND PENETRATIONS USING GEOMETRY SHOWN ON THE GRADING AND DRAINAGE PLANS AS WELL AS INFORMATION PROVIDED IN THIS DETAIL.
  - TOP OF STONE PAD SHALL BE SET LEVEL WITH MAINTENANCE OUTLET AND SHALL EXTEND FOR THE FULL WIDTH OF THE STRUCTURE.

**OUTLET CONTROL STRUCTURE (OCS) FOR ABOVE GROUND BASINS**

NOT TO SCALE

(NE-U010104 - 11/2025)

**BOHLER**  
 SITE CIVIL AND CONSULTING ENGINEERING  
 LAND SURVEYING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/24/2026	TOWN & PEER REVIEW COMMENTS	MJW	KWC
2	05/12/2026	TOWN COMMENTS	MJW	KWC

**811**  
 Know what's below.  
 Call before you dig.  
 ALWAYS CALL 811  
 It's fast. It's free. It's the law.

**PERMIT SET**

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: NHA250020.01-2A  
 DRAWN BY: MJW  
 CHECKED BY: KWC  
 DATE: 01/23/2026  
 CAD I.D.: P-CIVIL-CNDS

**SITE DEVELOPMENT PLANS**  
 FOR  
**Where Restaurant's DREAM**  
 PROPOSED RESTAURANT DEPOT  
 273 LOWELL ROAD  
 HUDSON, NEW HAMPSHIRE  
 PARCEL ID: 234-034-000

**BOHLER**  
 3 EXECUTIVE PARK DRIVE FLOOR 2  
 BEDFORD, NH 03110  
 Phone: (603) 441-2900  
 www.BohlerEngineering.com

**JAMES W. BOHLER**  
 PROFESSIONAL ENGINEER  
 No. 15476  
 EXPIRES 12/31/27  
 RICK S. BOHLER  
 No. 15477  
 EXPIRES 12/31/26  
 MAINE 12553

SHEET TITLE:  
**CONSTRUCTION DETAILS**

SHEET NUMBER:  
**C-903**

REVISION 2 - 05/12/2026

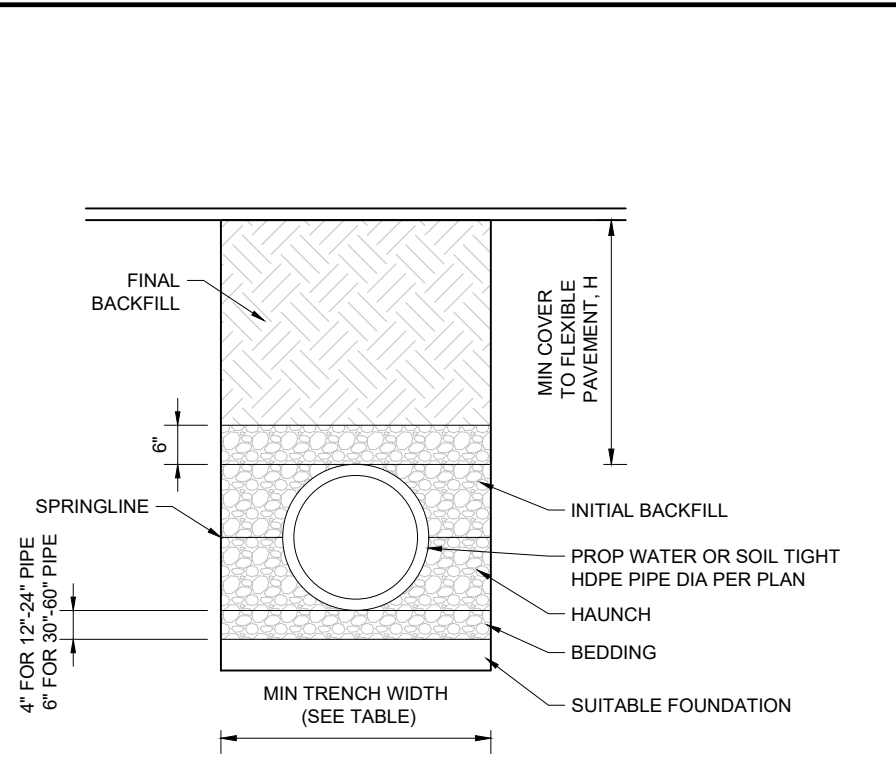
**APPROVAL BLOCK**

APPROVED BY THE HUDSON, NH PLANNING BOARD  
 DATE OF MEETING: \_\_\_\_\_

PLANNING BOARD CHAIRMAN	SIGNATURE	DATE
PLANNING BOARD SECRETARY	SIGNATURE	DATE

SITE PLANS ARE VALID FOR TWO YEARS 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.

May 11, 2026  
 P:\MA\2025\NHA250020.01\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\PC-CIVIL-CNDS-NHA250020.01-2A-LAYOUT-C-903 DETL (DRWG)

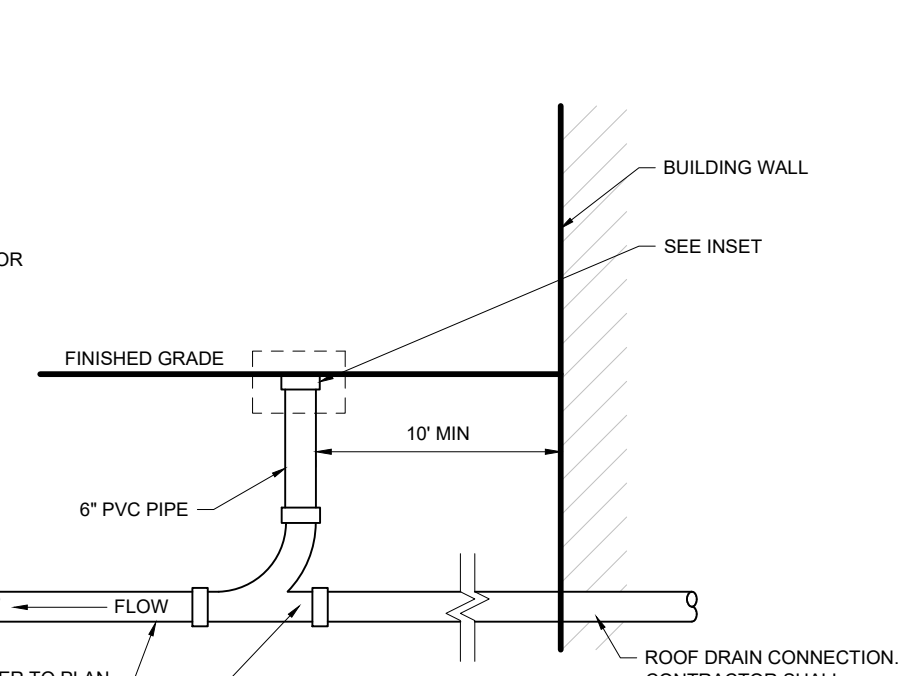
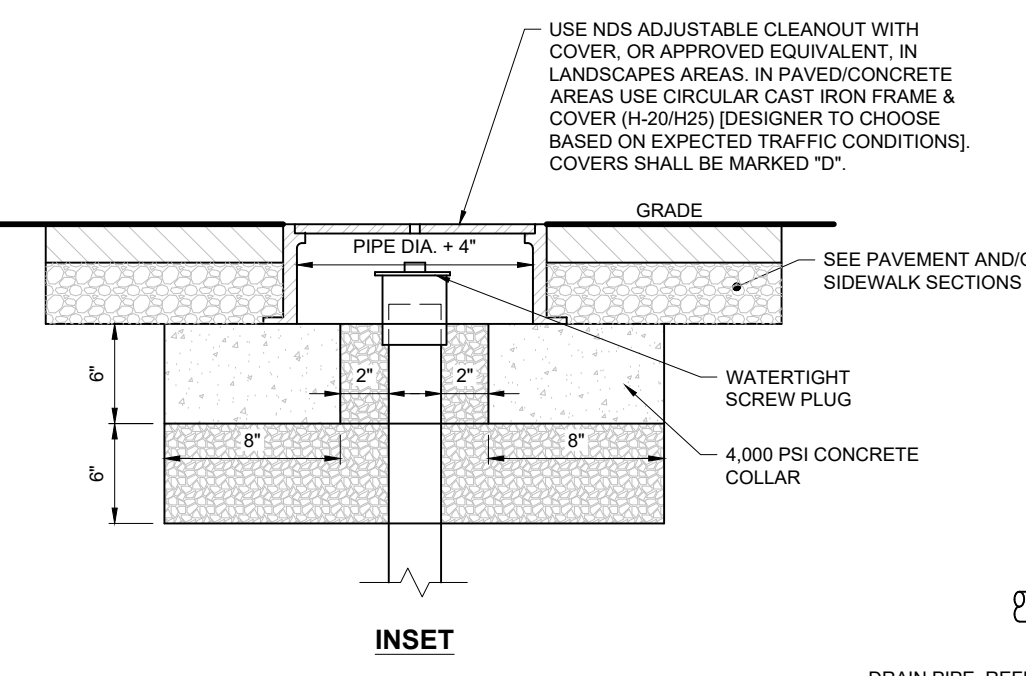


PIPE DIA	MIN TRENCH WIDTH
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
48"	80"
60"	96"

- NOTES:**
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS" LATEST EDITION.
  - MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL WHEN REQUIRED.
  - FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
  - BEDDING: SUITABLE MATERIAL SHALL BE CLASS II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm), 6" (150mm) FOR 30"-60" (750mm-900mm).
  - INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6' ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
  - MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-80" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

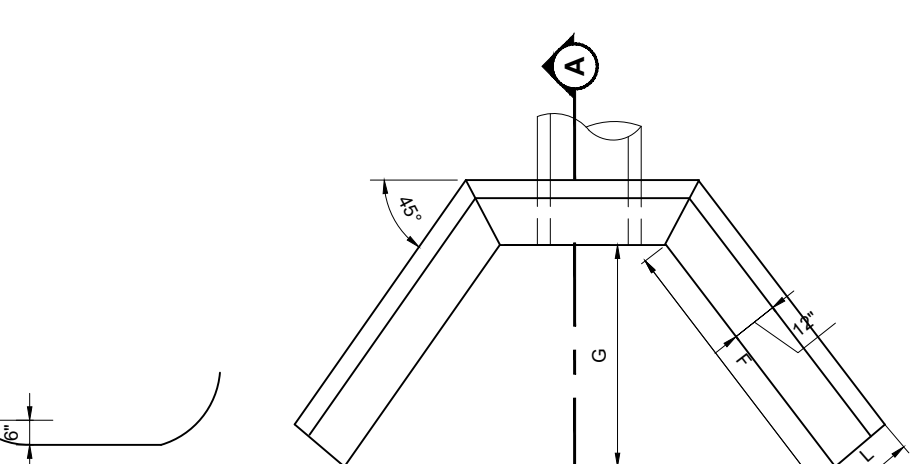
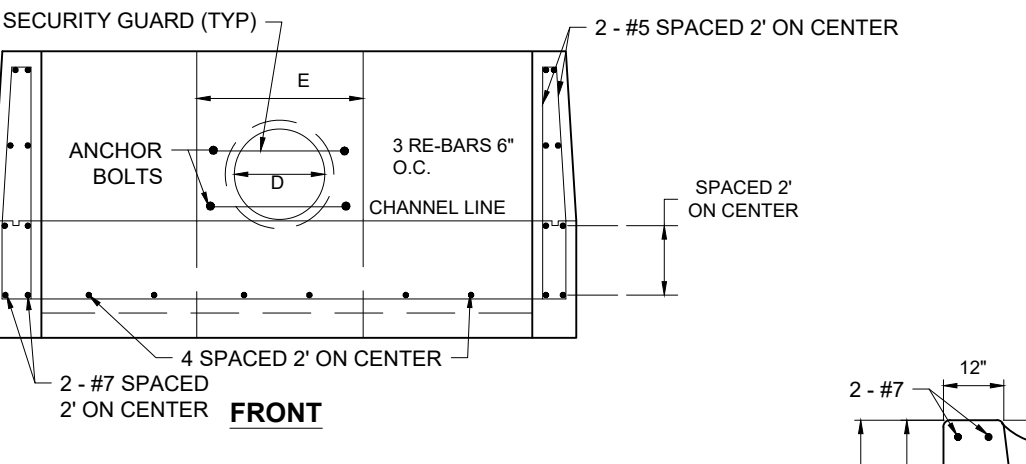
**HDPE STORM PIPE TRENCH**  
NOT TO SCALE

(NE-U019812 - 11/2024)



**ROOF DRAIN CONNECTION**  
NOT TO SCALE

(NE-U019905 - 09/2025)



D	E	F	G	H	L
12"	2'-0"	2'-10"	2'-0"	2'-6"	1'-0"
15"	2'-3"	3'-2"	2'-3"	2'-9"	1'-1"
18"	2'-6"	3'-7"	2'-6"	12"	1'-2"
21"	2'-9"	3'-11"	2'-9"	12"	1'-3"
24"	3'-0"	5'-0"	3'-0"	3'-6"	1'-4"
27"	3'-3"	5'-4"	3'-0"	3'-9"	1'-5"
30"	4'-0"	5'-8"	4'-0"	4'-0"	1'-6"
33"	4'-3"	6'-0"	4'-3"	4'-3"	1'-7"
36"	4'-6"	6'-4"	4'-6"	4'-6"	1'-8"
39"	4'-9"	6'-9"	4'-9"	4'-9"	1'-9"
42"	5'-0"	7'-1"	5'-0"	5'-0"	1'-10"
48"	5'-6"	7'-9"	5'-6"	5'-6"	2'-0"

**SELECTION A-A**  
**HEADWALL**  
NOT TO SCALE

(NE-U010404 - 09/2023)

- NOTES REGARDING DETAILS BY OTHERS:**
- DETAILS PREPARED BY OTHERS ARE IDENTIFIED AS SUCH BY WAY OF A TITLE BLOCK, REFERENCE, LOGO, OR OTHER NOTATION.
  - WHERE AN ORIGINAL DETAIL BY OTHERS HAS BEEN MODIFIED, THE MODIFICATIONS ARE IDENTIFIED BY REVISION CLOUDS.
  - REFER TO OUTSIDE SOURCE NOTES ON THE GENERAL NOTES AND LEGEND SHEET.
  - WHEN THE SOURCE OF THE DETAIL IS A REVIEWING/REGULATORY AGENCY, FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS AND SPECIFICATIONS. WHEN APPROPRIATE, SHOP DRAWINGS SHALL BE FORWARDED TO THE REVIEWING/REGULATORY AGENCY PRIOR TO FABRICATION.

**DETAILS BY OTHERS DISCLAIMER**

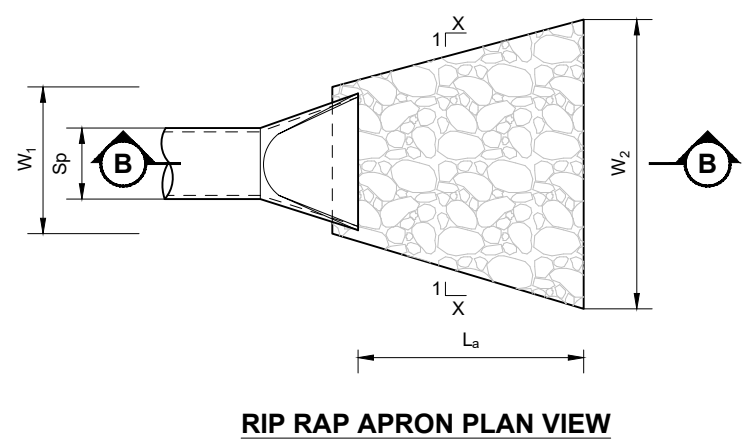
**APPROVAL BLOCK**

APPROVED BY THE HUDSON, NH PLANNING BOARD  
DATE OF MEETING: \_\_\_\_\_

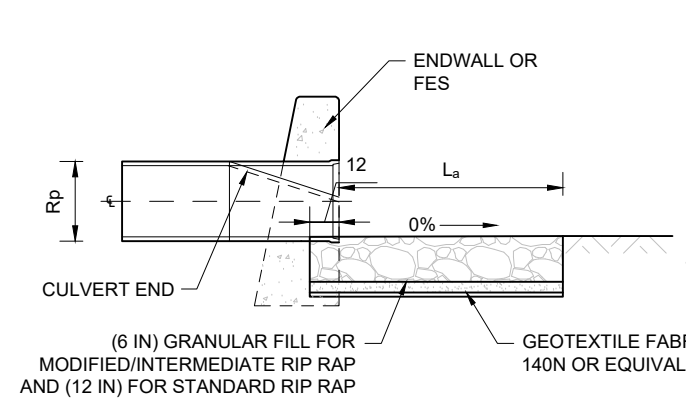
PLANNING BOARD CHAIRMAN	SIGNATURE DATE
PLANNING BOARD SECRETARY	SIGNATURE DATE

SITE PLANS ARE VALID FOR TWO YEARS 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.

**DETAIL REFERENCE:**  
DETAIL PROVIDED/PREPARED BY OTHERS AND IS FROM CONTECH ENGINEERED SOLUTIONS, LLC, RECEIVED 03/20/2026. REFER TO NOTES THIS SHEET.



**RIP RAP APRON PLAN VIEW**



**RIP RAP APRON SECTION B-B**

- NOTES:**
- THE RIP RAP USED FOR CONSTRUCTION SHALL CONFORM TO THE SPECIFIED MATERIAL.
  - GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE RIP RAP. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL OVERLAPS SHALL BE SEALED AND WATER TIGHT.
  - RIP RAP MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZE.

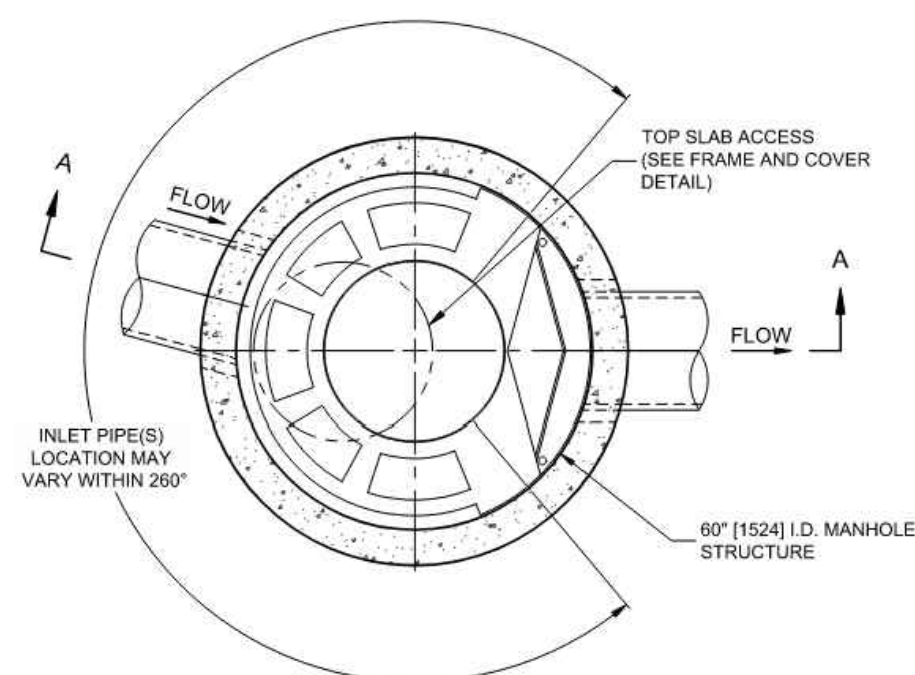
**RIP RAP APRON LEGEND:**  
Sp = MAX INSIDE PIPE SPAN (NON-CIRCULAR SECTIONS)  
Rp = MAX INSIDE PIPE RISE (NON-CIRCULAR SECTIONS)  
La = LENGTH OF RIP RAP APRON MEASURED FROM THE END OF CULVERT END SECTION OR FACE OF ENDWALL  
d = 18 IN INTERMEDIATE RIP RAP  
36 IN STANDARD RIP RAP

	X	W1	W2
TYPE A RIP RAP APRON	3	3Sp	3Sp+0.7 La
TYPE B RIP RAP APRON	5	3Sp	3Sp+0.4 La

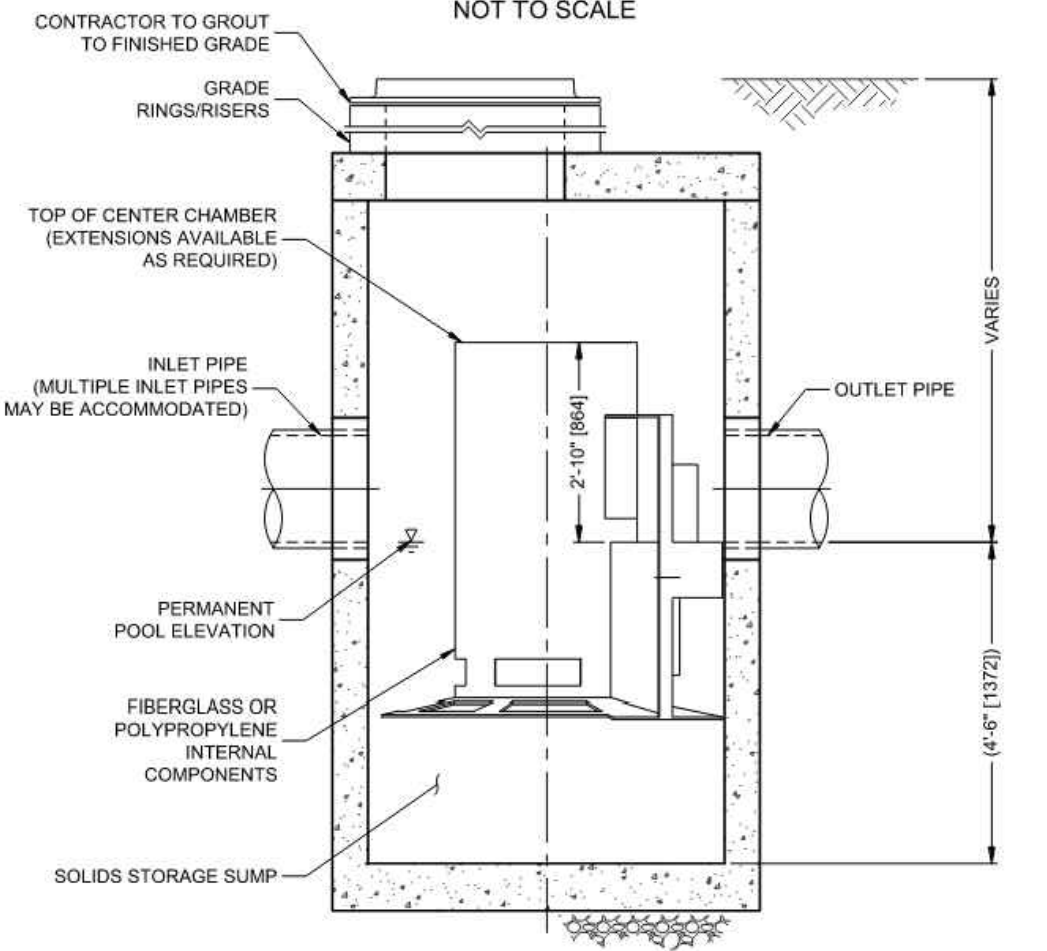
Location	Pipe Size (in.)	Sp (ft.)	Q (cfs)	TW (ft.)	V (fps)	W1 (ft.)	La (ft.)	W2 (ft.)	W3 (ft.)	Apron Type	Rip Rap Type
D-10*	12.00	1.00	0.10	0.13	3.37	3.00	10.00	10.00	NA	A	Modified
A-10	30.00	2.50	14.30	2.39	6.19	7.50	15.00	13.50	NA	B	Modified
B-10*	12.00	1.00	0.12	0.15	1.60	3.00	10.00	10.00	NA	A	Modified

**RIP RAP APRON**  
NOT TO SCALE

(NE-U010412 - 07/2025)



**PLAN VIEW B-B**  
NOT TO SCALE



**ELEVATION A-A**  
NOT TO SCALE

**CASCADE separator™**

**CASCADE SEPARATOR DESIGN NOTES**

THE STANDARD CS-5 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

**CONFIGURATION DESCRIPTION**

- GRATED INLET ONLY (NO INLET PIPE)
- GRATED INLET WITH INLET PIPE OR PIPES
- CURB INLET ONLY (NO INLET PIPE)
- CURB INLET WITH INLET PIPE OR PIPES

**SITE SPECIFIC DATA REQUIREMENTS**

STRUCTURE ID	A-20A
WATER QUALITY FLOW RATE (cfs [L/s])	1.67
PEAK FLOW RATE (cfs [L/s])	14.56
RETURN PERIOD OF PEAK FLOW (yrs)	25
RIM ELEVATION	144.56

PIPE DATA:	INVERT	MATERIAL	DIAMETER
INLET PIPE 1	136.87	HDPE	24"
INLET PIPE 2			
OUTLET PIPE	136.87	HDPE	24"

**SITE SPECIFIC DATA REQUIREMENTS**

STRUCTURE ID	C-20A
WATER QUALITY FLOW RATE (cfs [L/s])	1.609
PEAK FLOW RATE (cfs [L/s])	10.13
RETURN PERIOD OF PEAK FLOW (yrs)	25
RIM ELEVATION	141.32

PIPE DATA:	INVERT	MATERIAL	DIAMETER
INLET PIPE 1	137.10	HDPE	24"
INLET PIPE 2			
OUTLET PIPE	136.86	HDPE	24"

- GENERAL NOTES:**
- CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
  - FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.contechES.com
  - CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
  - CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0'-2" (610), AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M596 AND BE CAST WITH THE CONTECH LOGO.
  - CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN METHOD.
  - ALTERNATE UNITS ARE SHOWN IN MILLIMETERS (mm).
- INSTALLATION NOTES:**
- ANY SUB-BASE BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
  - CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CASCADE SEPARATOR MANHOLE STRUCTURE.
  - CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
  - CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
  - CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

**CONTECH ENGINEERED SOLUTIONS LLC**  
www.contechES.com  
9100 Centre Pointe Dr., Suite 400, West Chester, OH 45399  
930-338-1122 513-645-7000 513-645-7983 FAX

CS-5  
CASCADE SEPARATOR  
STANDARD DETAIL

**CONTECH CASCADE SEPARATOR (WQU)**  
NOT TO SCALE

**BOHLER**  
SITE CIVIL AND CONSULTING ENGINEERING  
LAND SURVEYING  
PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

**REVISIONS**

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/24/2026	TOWN & PEER REVIEW COMMENTS	MJW	KWC
2	05/12/2026	TOWN COMMENTS	MJW	KWC

**811**  
Know what's below.  
Call before you dig.  
ALWAYS CALL 811  
It's fast. It's free. It's the law.

**PERMIT SET**

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: NHA250020.01-2A  
DRAWN BY: MJW  
CHECKED BY: KWC  
DATE: 01/23/2026  
CAD I.D.: P-CIVL-CNDS

**SITE DEVELOPMENT PLANS**  
FOR  
**Where Restaurant's Dig**  
PROPOSED RESTAURANT DEPOT  
273 LOWELL ROAD  
HUDSON, NEW HAMPSHIRE  
PARCEL ID: 234-034-000

**BOHLER**  
3 EXECUTIVE PARK DRIVE FLOOR 2  
BEDFORD, NH 03110  
Phone: (603) 441-2900  
www.BohlerEngineering.com

**JAMES W. BOHLER**  
REGISTERED PROFESSIONAL ENGINEER  
No. 15476  
NEW HAMPSHIRE  
RECEIVED 03/17/2026  
MAINE  
12553

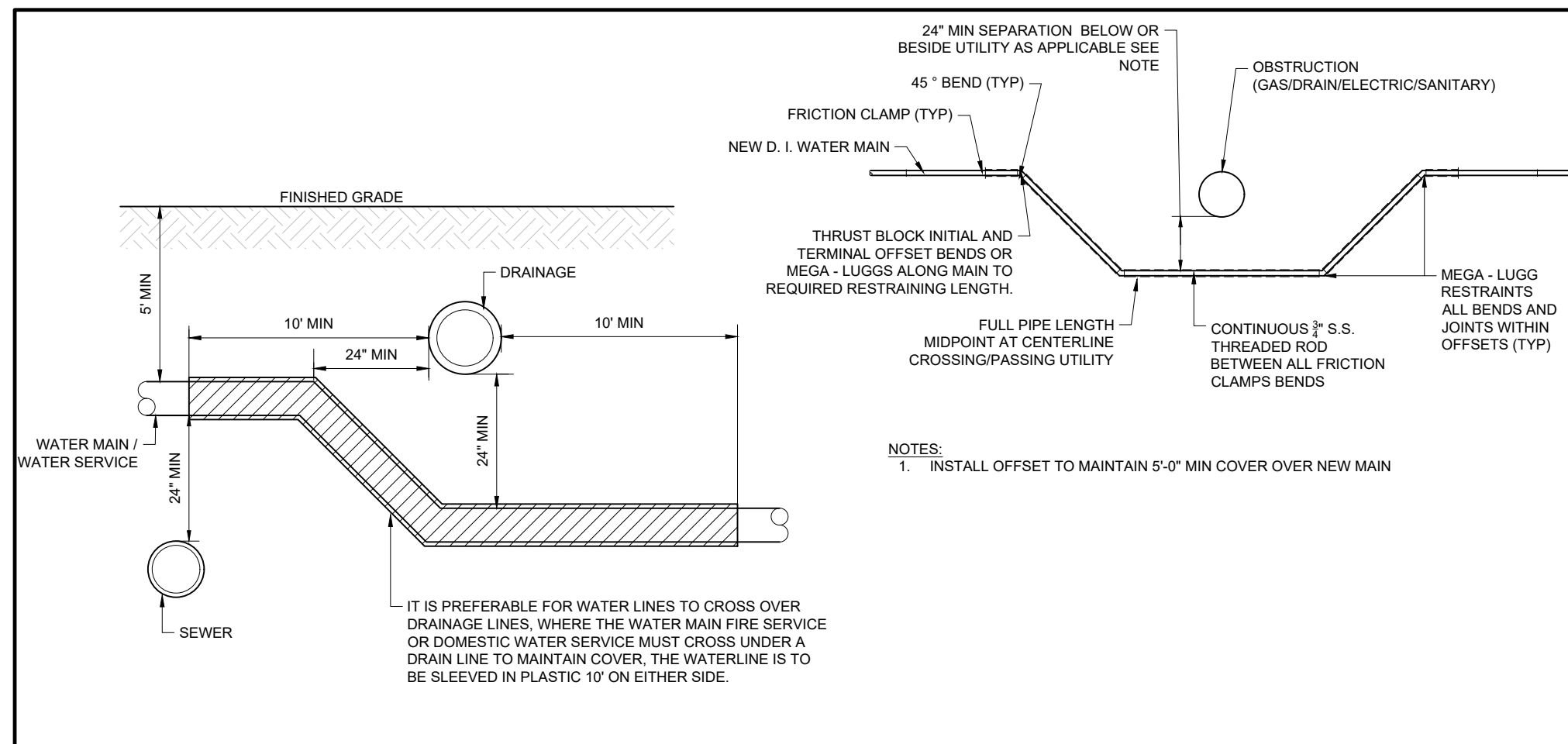
SHEET TITLE:  
**CONSTRUCTION DETAILS**

SHEET NUMBER:  
**C-904**

REVISION 2 - 05/12/2026

May 11, 2026  
P:\M\2025\NHA250020.01\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\PC-CIVL-CNDS\NHA250020.01-2A-LAYOUT-C-904.DWG (DRWG)

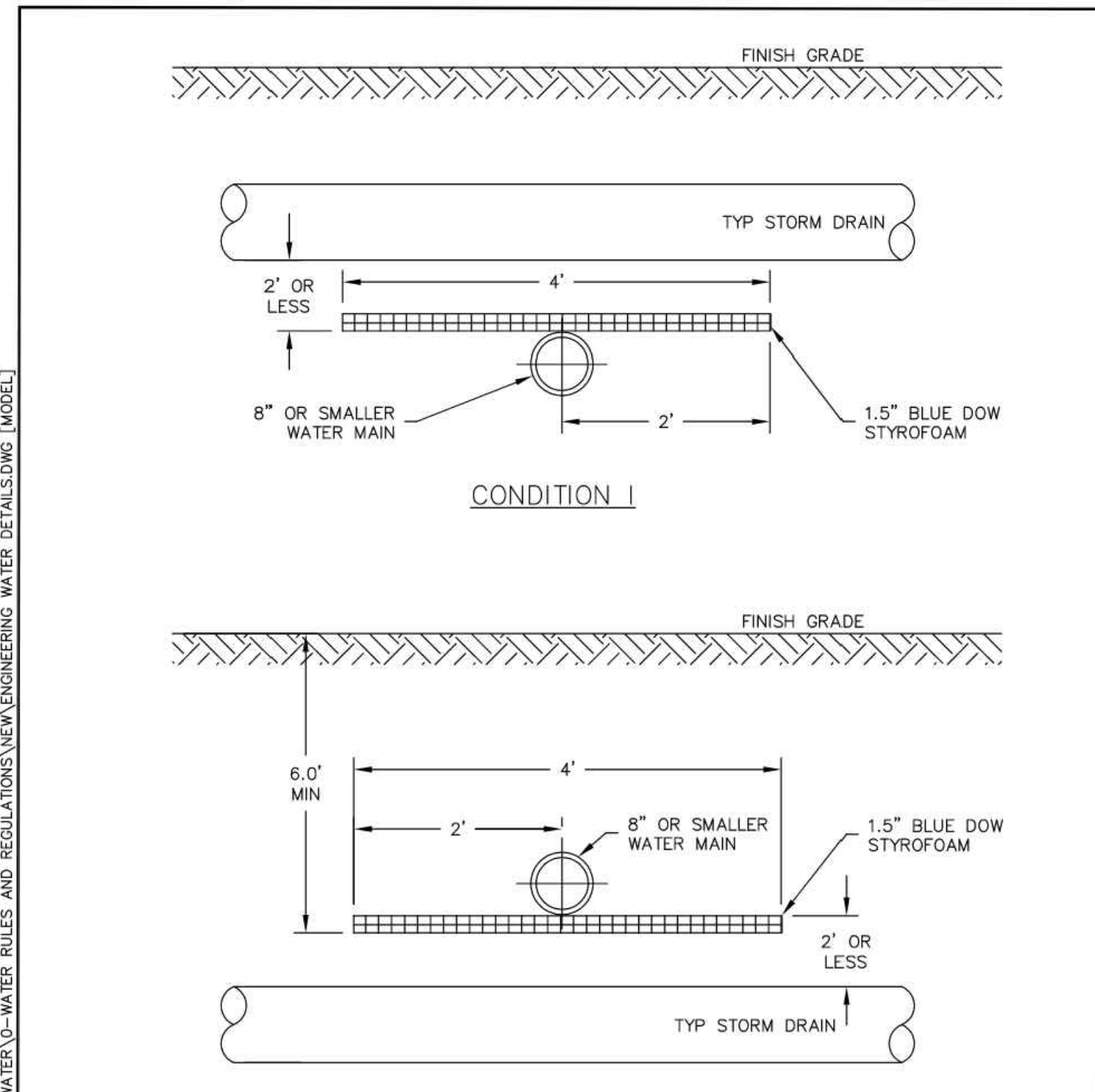




**WATER SERVICE OR MAIN AT UTILITY CROSSING**

NOT TO SCALE (NE-U050102 - 09/2023)

**DETAIL REFERENCE:**  
 DETAIL PROVIDED/PREPARED BY OTHERS AND IS FROM TOWN OF HUDSON, NH, DATED 2019. REFER TO NOTES THIS SHEET.



- NOTES REGARDING DETAILS BY OTHERS:**
1. DETAILS PREPARED BY OTHERS ARE IDENTIFIED AS SUCH BY WAY OF A TITLE BLOCK, REFERENCE, LOGO, OR OTHER NOTATION.
  2. WHERE AN ORIGINAL DETAIL BY OTHERS HAS BEEN MODIFIED, THE MODIFICATIONS ARE IDENTIFIED BY REVISION CLOUDS.
  3. REFER TO OUTSIDE SOURCE NOTES ON THE GENERAL NOTES AND LEGEND SHEET.
  4. WHEN THE SOURCE OF THE DETAIL IS A REVIEWING/REGULATORY AGENCY, FABRICATION AND INSTALLATION SHALL BE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS AND SPECIFICATIONS. WHEN APPROPRIATE, SHOP DRAWINGS SHALL BE FORWARDED TO THE REVIEWING/REGULATORY AGENCY PRIOR TO FABRICATION.

**DETAILS BY OTHERS DISCLAIMER**

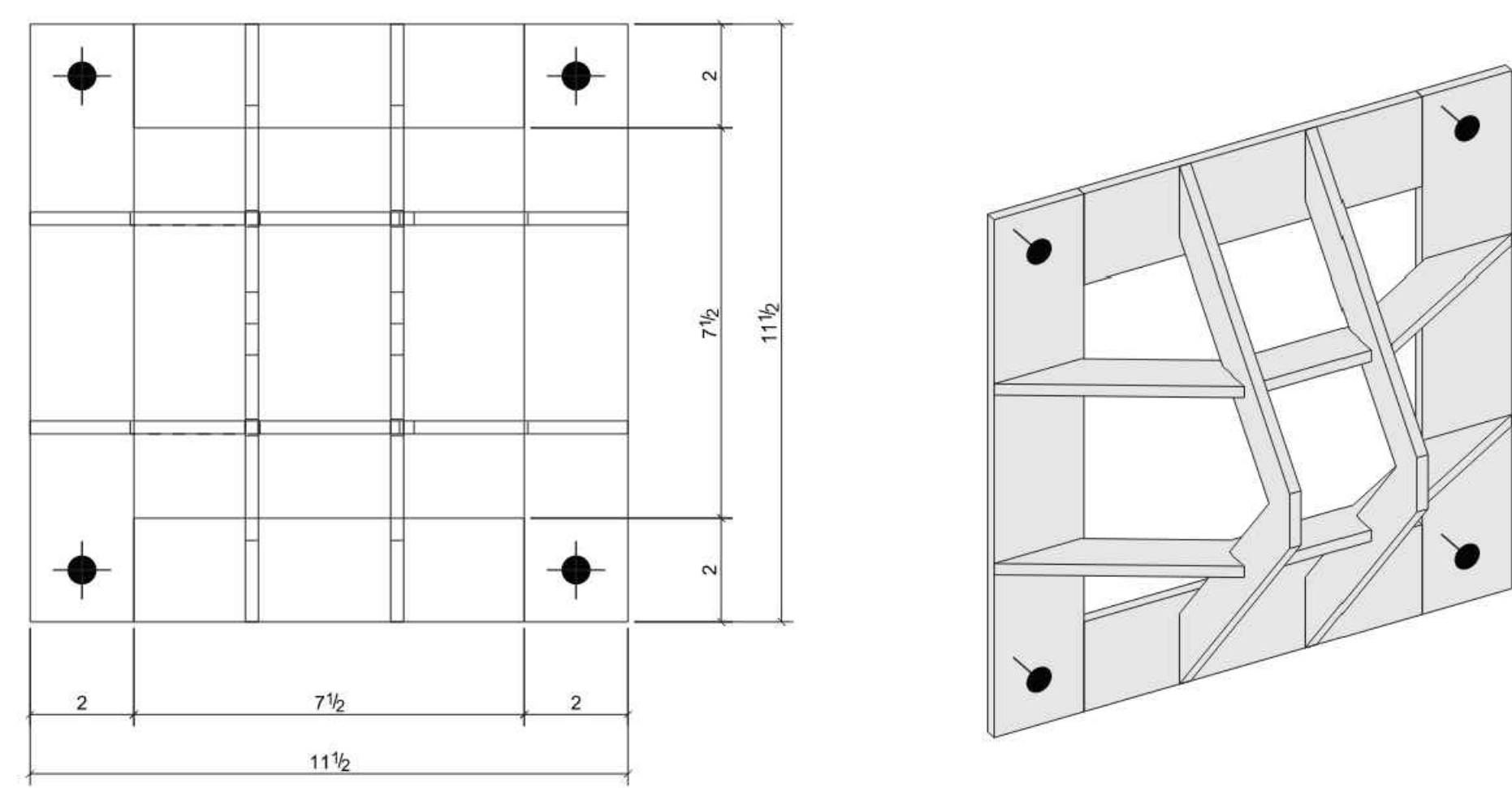
- NOTES:**
1. THE TOWN OF HUDSON RESERVES THE RIGHT TO MODIFY INSULATION REQUIREMENTS AS NECESSARY BASED ON FIELD CONDITIONS, ETC.
  2. THE LENGTH OR WIDTH OF INSULATION SHALL EXTEND 1 STORM DRAIN PIPE DIAMETER BEYOND THE EDGE OF STORM DRAIN PIPE IN EACH DIRECTION OR A MINIMUM OF 2' BEYOND THE CENTERLINE OF THE STORM DRAIN PIPE, WHICHEVER IS GREATER.
  3. ALL BUTT JOINT SEAMS TO BE OVERLAPPED WITH A 1' PIECE OF INSULATION CENTERED OVER SEAM.

DRAWINGS COURTESY OF PENNICHUCK WATER WORKS.

TOWN OF HUDSON  
 12 SCHOOL STREET  
 HUDSON, NH 03051

DETAIL W-18  
 STORM DRAIN, WATER MAIN  
 INTERSECTING RUNS - ELEV. VIEW  
 REV: 2019 SCALE: NTS

**DETAIL REFERENCE:**  
 DETAIL PROVIDED/PREPARED BY OTHERS AND IS FROM TRASHRACKS.COM. DOWNLOADED ON 03/02/2026. REFER TO NOTES THIS SHEET.



PRODUCT ID	MATERIAL	COATING	WEIGHT
LSW-0707-P	ASTM A36 MILD STEEL	N/A	9 LBS.
LSW-0707-G	ASTM A36 MILD STEEL	GALVANIZED	9 LBS.
LSW-0707-PC	ASTM A36 MILD STEEL	POWDER COAT	9 LBS.
LSW-0707-SS	304 STAINLESS STEEL	N/A	9 LBS.
LSW-0707-AL	6061-T6 ALUMINUM	N/A	3 LBS.

CUSTOM SIZES AVAILABLE  
 OPTIONS: HINGED ACCESS, ANTI-VORTEX PLATE

**TRASHRACKS.COM**  
 A DIVISION OF J. R. HOE

TITLE: **LSW-0707**  
 7"x7" SIDE WALL TRASH RACK  
 MADE IN THE U.S.A.

**BOHLER**

SITE CIVIL AND CONSULTING ENGINEERING  
 LAND SURVEYING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/24/2026	TOWN & PEER REVIEW COMMENTS	MJW	KWC
2	05/12/2026	TOWN COMMENTS	MJW	KWC

**811**  
 Know what's below.  
 Call before you dig.  
 ALWAYS CALL 811  
 It's fast. It's free. It's the law.

**PERMIT SET**

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: NHA250020.01-2A  
 DRAWN BY: MJW  
 CHECKED BY: KWC  
 DATE: 01/23/2026  
 CAD I.D.: P-CIVIL-CNDS

**PROJECT:**

**SITE DEVELOPMENT PLANS**

FOR

PROPOSED RESTAURANT DEPOT

273 LOWELL ROAD  
 HUDSON, NEW HAMPSHIRE  
 PARCEL ID: 234-034-000

**BOHLER**

3 EXECUTIVE PARK DRIVE FLOOR 2  
 BEDFORD, NH 03110  
 Phone: (603) 441-2900  
 www.BohlerEngineering.com

SHEET TITLE:  
**CONSTRUCTION DETAILS**

SHEET NUMBER:  
**C-906**

REVISION 2 - 05/12/2026

May 11, 2026  
 P:\M\2025\NHA250020.01\CAD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\PC-CIVIL-CNDS-NHA250020.01-2A-...-LAYOUT: C-906 DET. (UTL)

**APPROVAL BLOCK**

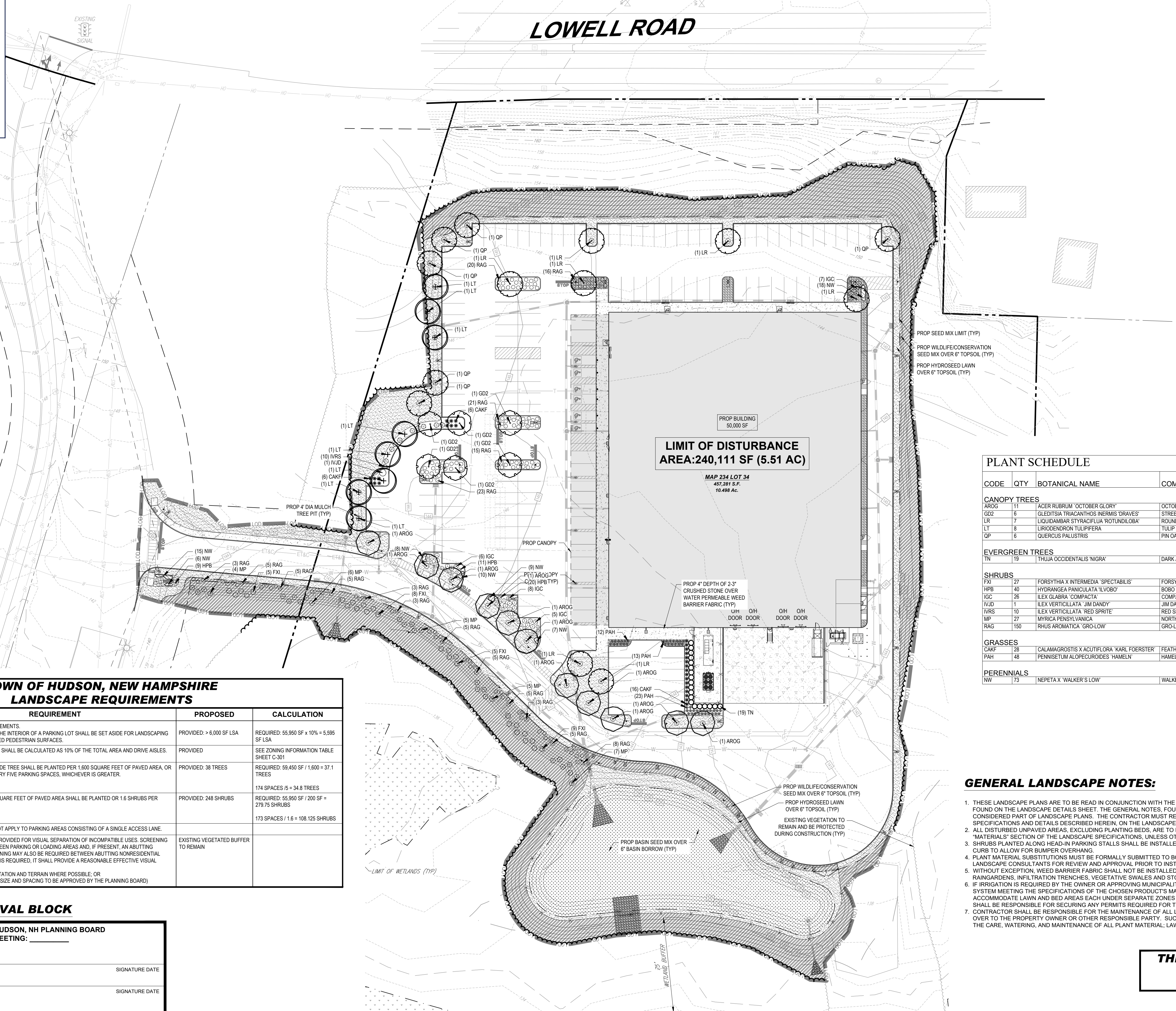
APPROVED BY THE HUDSON, NH PLANNING BOARD  
 DATE OF MEETING: \_\_\_\_\_

PLANNING BOARD CHAIRMAN	SIGNATURE	DATE
PLANNING BOARD SECRETARY	SIGNATURE	DATE

SITE PLANS ARE VALID FOR TWO YEARS 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.



# LOWELL ROAD



**LIMIT OF DISTURBANCE**  
AREA: 240,111 SF (5.51 AC)

MAP 234 LOT 34  
477,281 S.F.  
10.488 Ac.

### PLANT SCHEDULE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
<b>CANOPY TREES</b>					
AROG	11	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY RED MAPLE	2.5'-3" CAL	B&B
GD2	6	GLEDITSIA TRIACANTHOS INERMIS 'DRAVES'	STREET KEEPER® HONEY LOCUST	2.5'-3" CAL	B&B
LR	7	LIQUIDAMBAR STRYACIFLUA 'ROTUNDOLOBATA'	ROUND-LOBED SWEET GUM	2.5'-3" CAL	B&B
LT	8	LIRIODENDRON TULIPIFERA	TULIP TREE	2.5'-3" CAL	B&B
QP	6	QUERCUS FALLOSTRIIS	PIN OAK	2.5'-3" CAL	B&B
<b>EVERGREEN TREES</b>					
TN	19	THUJA OCCIDENTALIS 'NIGRA'	DARK AMERICAN ARBORVITAE	6-8'	B&B
<b>SHRUBS</b>					
FXI	27	FORSYTHIA X INTERMEDIA 'SPECTABILIS'	FORSYTHIA	3-4'	B&B
HPB	40	HYDRANGEA PANICULATA 'L'VOBO'	BOBO PANICLE HYDRANGEA	20-24"	CONTAINER
IGC	26	ILEX GLABRA 'COMPACTA'	COMPACT INKBERRY	24-30"	CONTAINER
IVJD	1	ILEX VERTICILLATA 'JIM DANDY'	JIM DANDY WINTERBERRY	30-36"	CONTAINER
IVRS	10	ILEX VERTICILLATA 'RED SPRITE'	RED SPRITE WINTERBERRY	18-24"	CONTAINER
MP	27	MYRICA PENNSYLVANICA	NORTHERN BAYBERRY	30-36"	CONTAINER
RAG	150	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	15-18"	CONTAINER
<b>GRASSES</b>					
CAKF	28	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS	1 GAL.	CONTAINER
PAH	48	PENNISETUM ALOPECUROIDES 'HAEMEL'	HAEMEL FOUNTAIN GRASS	1 GAL.	CONTAINER
<b>PERENNIALS</b>					
NW	73	NEPETA X WALKER'S LOW	WALKER'S LOW CATMINT	1 GAL.	CONTAINER

### SEED MIX KEY

HATCH	DESCRIPTION
	CONSERVATION / WILDLIFE SEED MIX
	HYDROSEEDED LAWN
	BASIN SEED MIX

### GENERAL LANDSCAPE NOTES:

- THESE LANDSCAPE PLANS ARE TO BE READ IN CONJUNCTION WITH THE LANDSCAPE SPECIFICATIONS, AND ASSOCIATED DETAILS FOUND ON THE LANDSCAPE DETAILS SHEET. THE GENERAL NOTES, FOUND ON THE NOTES PAGE OF THIS PLAN SET, ARE CONSIDERED PART OF LANDSCAPE PLANS. THE CONTRACTOR MUST REFER TO, AND FULLY COMPLY WITH, ALL NOTES, SPECIFICATIONS AND DETAILS DESCRIBED HEREIN, ON THE LANDSCAPE PLANS AND IN THE LANDSCAPE DETAILS SHEET.
- ALL DISTURBED UNPAVED AREAS, EXCLUDING PLANTING BEDS, ARE TO BE INSTALLED AS LAWN IN ACCORDANCE WITH "MATERIALS" SECTION OF THE LANDSCAPE SPECIFICATIONS, UNLESS OTHERWISE SPECIFICALLY STATED ON THIS PLAN.
- SHRUBS PLANTED ALONG HEAD-IN PARKING STALLS SHALL BE INSTALLED TO ALLOW A CLEARANCE OF TWO FEET FROM FACE OF CURB TO ALLOW FOR BUMPER OVERHANG.
- PLANT MATERIAL SUBSTITUTIONS MUST BE FORMALLY SUBMITTED TO BOHLER & THE MUNICIPALITY'S ENGINEERING AND LANDSCAPE CONSULTANTS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- WITHOUT EXCEPTION, WEED BARRIER FABRIC SHALL NOT BE INSTALLED WITHIN ANY STORMWATER FACILITY, INCLUDING RAINGARDENS, INFILTRATION TRENCHES, VEGETATIVE SWALES AND STORMWATER BASINS.
- IF IRRIGATION IS REQUIRED BY THE OWNER OR APPROVING MUNICIPALITY, THE CONTRACTOR SHALL PROVIDE AN IRRIGATION SYSTEM MEETING THE SPECIFICATIONS OF THE CHOSEN PRODUCT'S MANUFACTURER. THE IRRIGATION DESIGN SHALL ACCOMMODATE LAWN AND BED AREAS EACH UNDER SEPARATE ZONES TO MAXIMIZE WATER EFFICIENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ANY PERMITS REQUIRED FOR THE INSTALLATION OF AN IRRIGATION SYSTEM.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPING UNTIL PROJECT MAINTENANCE IS TURNED OVER TO THE PROPERTY OWNER OR OTHER RESPONSIBLE PARTY. SUCH RESPONSIBILITIES INCLUDE, BUT ARE NOT LIMITED TO, THE CARE, WATERING, AND MAINTENANCE OF ALL PLANT MATERIAL, LAWN MOWING, AND SEASONAL MAINTENANCE.

### TOWN OF HUDSON, NEW HAMPSHIRE LANDSCAPE REQUIREMENTS

SECTION	REQUIREMENT	PROPOSED	CALCULATION
SITE PLAN REVIEW - ARTICLE I - GENERAL PROVISIONS	§(7) LANDSCAPING REQUIREMENTS. (A) A MINIMUM OF 10% OF THE INTERIOR OF A PARKING LOT SHALL BE SET ASIDE FOR LANDSCAPING AREAS EXCLUSIVE OF PAVED PEDESTRIAN SURFACES.	PROVIDED: > 6,000 SF LSA	REQUIRED: 55,950 SF x 10% = 5,595 SF LSA
	(B) THE LANDSCAPED AREA SHALL BE CALCULATED AS 10% OF THE TOTAL AREA AND DRIVE AISLES.	PROVIDED:	SEE ZONING INFORMATION TABLE SHEET C-301
	(C) A MINIMUM OF ONE SHADE TREE SHALL BE PLANTED PER 1,600 SQUARE FEET OF PAVED AREA, OR ONE SHADE TREE PER EVERY FIVE PARKING SPACES, WHICHEVER IS GREATER.	PROVIDED: 38 TREES	REQUIRED: 59,450 SF / 1,600 = 37.1 TREES
	(D) ONE SHRUB PER 200 SQUARE FEET OF PAVED AREA SHALL BE PLANTED OR 1.6 SHRUBS PER EVERY PARKING SPACE.	PROVIDED: 248 SHRUBS	REQUIRED: 55,950 SF / 200 SF = 279.75 SHRUBS
	(E) THIS SECTION SHALL NOT APPLY TO PARKING AREAS CONSISTING OF A SINGLE ACCESS LANE.		173 SPACES / 5 = 34.8 TREES
	(8) SCREENING SHALL BE PROVIDED FOR VISUAL SEPARATION OF INCOMPATIBLE USES. SCREENING SHALL BE REQUIRED BETWEEN PARKING OR LOADING AREAS AND, IF PRESENT, AN ADJUTING RESIDENTIAL ZONE. SCREENING MAY ALSO BE REQUIRED BETWEEN ADJUTING NON-RESIDENTIAL SITES, WHERE SCREENING IS REQUIRED, IT SHALL PROVIDE A REASONABLE EFFECTIVE VISUAL BUFFER BY: (A) USE OF EXISTING VEGETATION AND TERRAIN WHERE POSSIBLE; OR (B) NEW PLANTINGS (TYPE, SIZE AND SPACING TO BE APPROVED BY THE PLANNING BOARD)	EXISTING VEGETATED BUFFER TO REMAIN	173 SPACES / 1.6 = 108.125 SHRUBS

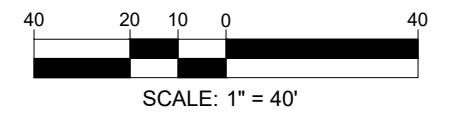
### APPROVAL BLOCK

APPROVED BY THE HUDSON, NH PLANNING BOARD  
DATE OF MEETING: \_\_\_\_\_

PLANNING BOARD CHAIRMAN	SIGNATURE	DATE
PLANNING BOARD SECRETARY	SIGNATURE	DATE

SITE PLANS ARE VALID FOR TWO YEARS 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.

**THIS PLAN TO BE UTILIZED  
FOR LANDSCAPE  
PURPOSES ONLY**



**BOHLER**  
SITE CIVIL AND CONSULTING ENGINEERING  
LAND SURVEYING  
PROGRAM MANAGEMENT  
LANDSCAPE ARCHITECTURE  
SUSTAINABLE DESIGN  
PERMITTING SERVICES  
TRANSPORTATION SERVICES

### REVISIONS

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/24/2026	TOWN & PEER REVIEW COMMENTS	MJW	KWC
2	05/12/2026	TOWN COMMENTS	MJW	KWC

**811**  
Know what's below.  
Call before you dig.  
ALWAYS CALL 811  
It's fast. It's free. It's the law.

### PERMIT SET

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: NHA250020.01-2A  
DRAWN BY: MJW  
CHECKED BY: KWC  
DATE: 01/23/2026  
CAD I.D.: P-CIVL-LSCP

### SITE DEVELOPMENT PLANS

FOR  
**Where Restaurants Dig**

PROPOSED RESTAURANT DEPOT  
273 LOWELL ROAD  
HUDSON, NEW HAMPSHIRE  
PARCEL ID: 234-034-000

**BOHLER**  
3 EXECUTIVE PARK DRIVE FLOOR 2  
BEDFORD, NH 03110  
Phone: (603) 441-2900  
www.BohlerEngineering.com

MATTHEW J. MURPHY  
REGISTERED LANDSCAPE ARCHITECT  
LICENSE NO. 127  
STATE OF NEW HAMPSHIRE  
0160 No. 250433

SHEET TITLE:  
**LANDSCAPE PLAN**

SHEET NUMBER:  
**L-101**

REVISION 2 - 05/12/2026

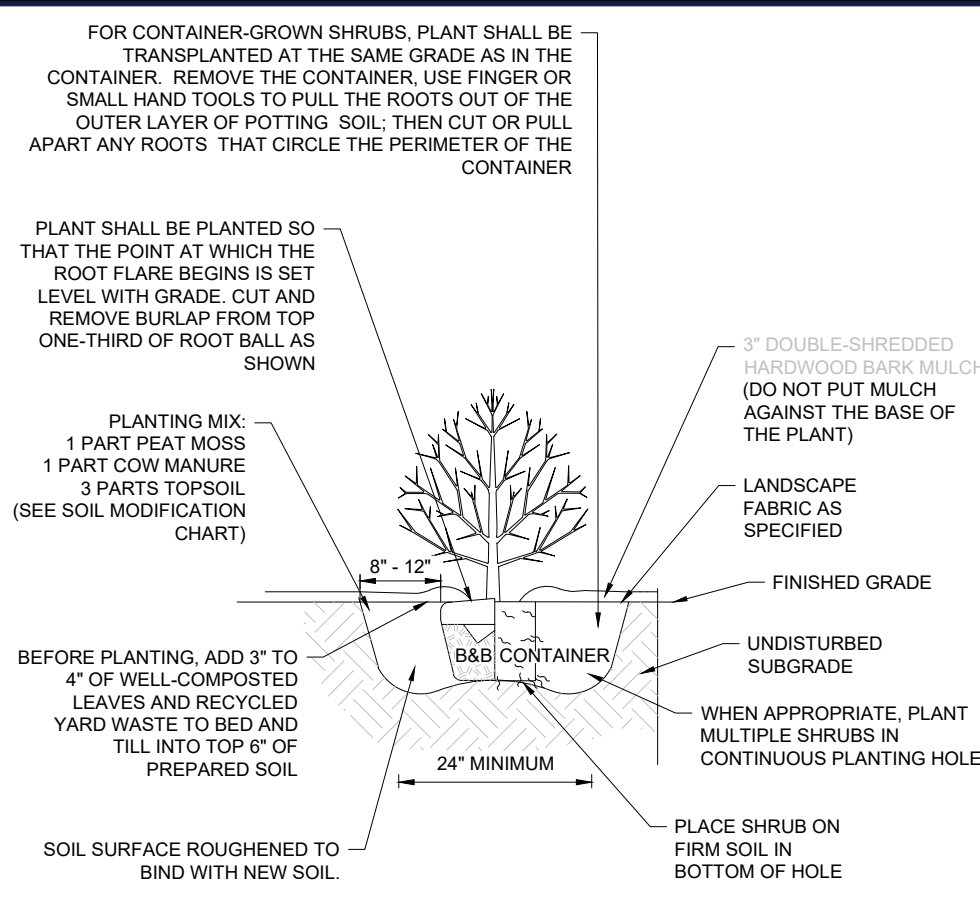
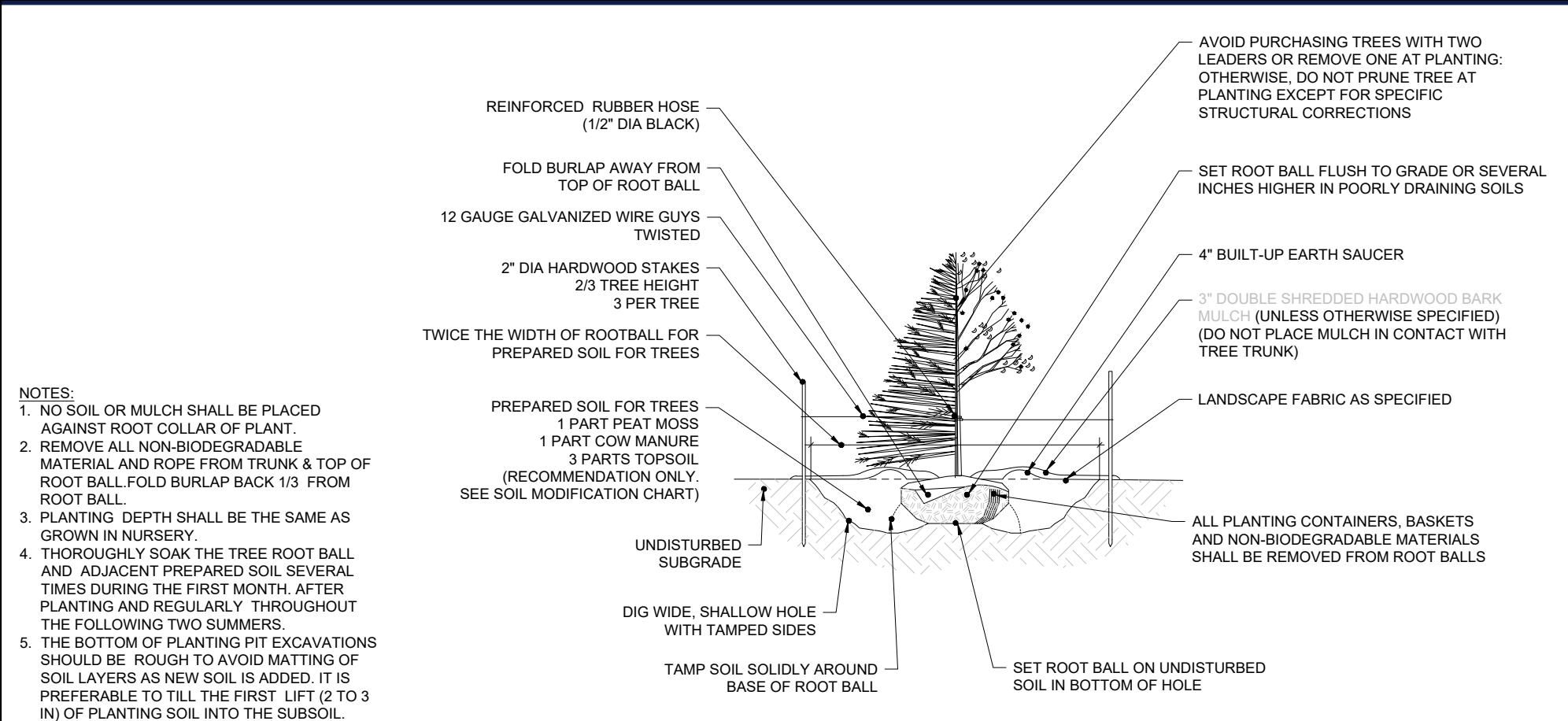
May 11, 2026  
 P:\MHA\2025\NHA250020.01\CADD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\SP-CIVL-LSCP-NHA250020.01-2A...LAYOUT - L-101.LSCP

**NEW HAMPSHIRE LANDSCAPE SPECIFICATION**  
(Rev. 6/2023)

- SCOPE OF WORK:
  - THE LANDSCAPE CONTRACTOR SHALL BE REQUIRED TO PERFORM ALL CLEARING, FINISHED GRADING, SOIL PREPARATION PERMANENT SEEDING OR SODDING, PLANTING AND MULCHING INCLUDING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY FOR THE COMPLETION OF THIS PROJECT, UNLESS OTHERWISE CONTRACTED BY THE GENERAL CONTRACTOR.
- MATERIALS:
  - GENERAL - ALL HARDSCAPE MATERIALS SHALL MEET OR EXCEED SPECIFICATIONS AS OUTLINED IN THE STATE DEPARTMENT OF TRANSPORTATION'S SPECIFICATIONS.
  - TOPSOIL - NATURAL, FRIABLE, LOAMY SILT SOIL HAVING AN ORGANIC CONTENT NOT LESS THAN 5%, A PH RANGE BETWEEN 4.5-7.0. IT SHALL BE FREE OF DEBRIS, ROCKS LARGER THAN ONE INCH (1"), WOOD, ROOTS, VEGETABLE MATTER AND CLAY CLODS.
  - LAWN:
    - ALL DISTURBED AREAS ARE TO BE TREATED WITH A MINIMUM 6" THICK LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, AND SEEDED OR SODDED IN ACCORDANCE WITH THE PERMANENT STABILIZATION METHODS INDICATED ON THE LANDSCAPE PLAN.
    - LAWN SEED MIXTURE SHALL BE FRESH, CLEAN AND NEW CROP SEED.
    - SOD SHALL BE STRONGLY ROOTED, WEED AND DISEASE/PEST FREE WITH A UNIFORM THICKNESS. SOD INSTALLED ON SLOPES GREATER THAN 4:1 SHALL BE PEGGED TO HOLD SOIL IN PLACE.
    - MULCH FILL PLANTING BEDS SHALL BE MULCHED WITH A 3" THICK LAYER OF DOUBLE SHREDDED HARDWOOD BARK MULCH, UNLESS OTHERWISE STATED ON THE LANDSCAPE PLAN AND/OR LANDSCAPE PLAN NOTES / DETAILS.
  - FERTILIZER:
    - FERTILIZER SHALL BE DELIVERED TO THE SITE MIXED AS SPECIFIED IN THE ORIGINAL UNOPENED STANDARD BAGS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. FERTILIZER SHALL BE STORED IN A WEATHERPROOF PLACE SO THAT IT CAN BE KEPT DRY PRIOR TO USE.
    - FOR THE PURPOSE OF BIDDING, ASSUME THAT FERTILIZER SHALL BE 10% NITROGEN, 6% PHOSPHORUS AND 4% POTASSIUM BY WEIGHT. A FERTILIZER SHOULD NOT BE SELECTED WITHOUT A SOIL TEST PERFORMED BY A CERTIFIED SOIL LABORATORY. CONTRACTOR TO ADHERE TO STATE REGULATIONS REGARDING APPLICATION OF FERTILIZERS.
  - PLANT MATERIAL:
    - ALL PLANTS SHALL IN ALL CASES CONFORM TO THE REQUIREMENTS OF THE "AMERICAN STANDARD FOR NURSERY STOCK" (ANSI Z60.1), LATEST EDITION, AS PUBLISHED BY THE AMERICAN NURSERY & LANDSCAPE ASSOCIATION (FORMERLY THE AMERICAN ASSOCIATION OF NURSERYMEN).
    - IN ALL CASES, BOTANICAL NAMES SHALL TAKE PRECEDENCE OVER COMMON NAMES FOR ANY AND ALL PLANT MATERIAL.
    - PLANTS SHALL BE LEGIBLY TAGGED WITH THE PROPER NAME AND SIZE. TAGS ARE TO REMAIN ON AT LEAST ONE PLANT OF EACH SPECIES FOR VERIFICATION PURPOSES DURING THE FINAL INSPECTION.
    - TREES WITH ABRASION OF THE BARK, SUN SCALDS, DISFIGURATION OR FRESH CUTS OF LIMBS OVER 1/4", WHICH HAVE NOT BEEN COMPLETELY CALLED, SHALL BE REJECTED. PLANTS SHALL NOT BE BOUND WITH WIRE OR ROPE AT ANY TIME SO AS TO DAMAGE THE BARK OR BREAK BRANCHES.
    - ALL PLANTS SHALL BE TYPICAL OF THEIR SPECIES OR VARIETY AND SHALL HAVE A NORMAL HABIT OF GROWTH, WELL DEVELOPED BRANCHES, DENSELY FOLIATED, VIGOROUS ROOT SYSTEMS AND BE FREE OF DISEASE, INSECTS, PESTS, EGGS OR LARVAE.
    - CALIPER MEASUREMENTS OF NURSERY GROWN TREES SHALL BE TAKEN AT A POINT ON THE TRUNK SIX INCHES (6") ABOVE THE NATURAL GRADE FOR TREES UP TO AND INCLUDING A FOUR INCH (4") CALIPER SIZE. IF THE CALIPER AT SIX INCHES (6") ABOVE THE GROUND EXCEEDS FOUR INCHES (4") IN CALIPER, THE CALIPER SHOULD BE MEASURED AT A POINT 12" ABOVE THE NATURAL GRADE.
    - SHRUBS SHALL BE MEASURED TO THE AVERAGE HEIGHT OR SPREAD OF THE SHRUB, AND NOT TO THE LONGEST BRANCH.
    - TREES AND SHRUBS SHALL BE HANDLED WITH CARE BY THE ROOT BALL.
- GENERAL WORK PROCEDURES:
  - CONTRACTOR TO UTILIZE WORKMANLIKE INDUSTRY STANDARDS IN PERFORMING ALL LANDSCAPE CONSTRUCTION. THE SITE IS TO BE LEFT IN A CLEAN STATE AT THE END OF EACH WORKDAY. ALL DEBRIS, MATERIALS AND TOOLS SHALL BE PROPERLY STORED, STOCKPILED OR DISPOSED OF.
  - WASTE MATERIALS AND DEBRIS SHALL BE COMPLETELY DISPOSED OF AT THE CONTRACTOR'S EXPENSE. DEBRIS SHALL NOT BE BURIED, INCLUDING ORGANIC MATERIALS, BUT SHALL BE REMOVED COMPLETELY FROM THE SITE.
- SITE PREPARATIONS:
  - BEFORE AND DURING PRELIMINARY GRADING AND FINISHED GRADING, ALL WEEDS AND GRASSES SHALL BE DUG OUT BY THE ROOTS AND DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES OUTLINED HEREIN.
  - ANY EXISTING TREES TO REMAIN SHALL BE PRUNED TO REMOVE ANY DAMAGED BRANCHES. THE ENTIRE LIMB OF ANY DAMAGED BRANCH SHALL BE CUT OFF AT THE BRANCH COLLAR. CONTRACTOR SHALL ENSURE THAT CUTS ARE SMOOTH AND STRAIGHT. ANY EXPOSED ROOTS SHALL BE CUT BACK WITH CLEAN, SHARP TOOLS AND TOPSOIL SHALL BE PLACED AROUND THE ROOTS. EXISTING TREES SHALL BE MONITORED ON A REGULAR BASIS FOR ADDITIONAL ROOT OR BRANCH DAMAGE AS A RESULT OF CONSTRUCTION. ROOTS SHALL NOT BE LEFT EXPOSED FOR MORE THAN ONE (1) DAY. CONTRACTOR SHALL WATER EXISTING TREES AS NEEDED TO PREVENT SHOCK OR DECLINE.
  - CONTRACTOR SHALL ARRANGE TO HAVE A UTILITY STAKE-OUT TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF ANY LANDSCAPE MATERIAL. UTILITY COMPANIES SHALL BE CONTACTED THREE (3) DAYS PRIOR TO THE BEGINNING OF WORK.
- TREE PROTECTION:
  - CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING TREES TO REMAIN. A TREE PROTECTION ZONE SHALL BE ESTABLISHED AT THE DRIP LINE OR AT THE LIMIT OF CONSTRUCTION DISTURBANCE, WHICHEVER IS GREATER. LOCAL STANDARDS THAT MAY REQUIRE A MORE STRICT TREE PROTECTION ZONE SHALL BE HONORED.
  - A FORTY-EIGHT INCH (48") HIGH WOODEN SNOW FENCE OR ORANGE COLORED HIGH-DENSITY VISH-FENCE, OR APPROVED EQUAL ON STEEL POSTS SHALL BE PLACED ALONG THE BOUNDARY OF THE TREE PROTECTION ZONE. POSTS SHALL BE LOCATED AT A MAXIMUM OF EIGHT FEET (8') ON CENTER OR AS INDICATED WITHIN THE TREE PROTECTION DETAIL.
  - WHEN THE TREE PROTECTION FENCING HAS BEEN INSTALLED, IT SHALL BE INSPECTED BY THE APPLYING AGENCY PRIOR TO DEMOLITION, GRADING, TREE CLEARING OR ANY OTHER CONSTRUCTION. THE FENCING ALONG THE TREE PROTECTION ZONE SHALL BE REGULARLY INSPECTED BY THE LANDSCAPE CONTRACTOR AND MAINTAINED UNTIL ALL CONSTRUCTION ACTIVITY HAS BEEN COMPLETED.
  - AT NO TIME SHALL MACHINERY, DEBRIS, FALLEN TREES OR OTHER MATERIALS BE PLACED, STOCKPILED OR LEFT STANDING IN THE TREE PROTECTION ZONE.
- SOIL MODIFICATIONS:
  - CONTRACTOR SHALL ATTAIN A SOIL TEST FOR ALL AREAS OF THE SITE PRIOR TO CONDUCTING ANY PLANTING. SOIL TESTS SHALL BE PERFORMED BY A CERTIFIED SOIL LABORATORY.
  - LANDSCAPE CONTRACTOR SHALL REPORT ANY SOIL OR DRAINAGE CONDITIONS CONSIDERED DETRIMENTAL TO THE GROWTH OF PLANT MATERIAL. SOIL MODIFICATIONS, AS SPECIFIED HEREIN, MAY NEED TO BE CONDUCTED BY THE LANDSCAPE CONTRACTOR DEPENDING ON SITE CONDITIONS.
  - THE FOLLOWING AMENDMENTS AND QUANTITIES ARE APPROXIMATE AND ARE FOR BIDDING PURPOSES ONLY. COMPOSITION OF AMENDMENTS SHOULD BE REVISED DEPENDING ON THE OUTCOME OF A TOPSOIL ANALYSIS PERFORMED BY A CERTIFIED SOIL LABORATORY.
  - TO INCREASE A SANDY SOIL'S ABILITY TO RETAIN WATER AND NUTRIENTS, THOROUGHLY TILL ORGANIC MATTER INTO THE TOP 6-12". USE COMPOSTED BARK, COMPOSTED LEAF MULCH OR PEAT MOSS. ALL PRODUCTS SHOULD BE COMPOSTED TO A DARK COLOR AND BE FREE OF PIECES WITH IDENTIFIABLE LEAF OR WOOD STRUCTURE. AVOID MATERIAL WITH A PH HIGHER THAN 7.5.
  - TO INCREASE DRAINAGE, MODIFY HEAVY CLAY OR SILT (MORE THAN 40% CLAY) BY ADDING COMPOSTED PINE BARK (UP TO 30% BY VOLUME) AND/OR AGRICULTURAL GYPSUM. COARSE SAND MAY BE USED IF ENOUGH IS ADDED TO BRING THE SAND CONTENT TO MORE THAN 60% OF THE TOTAL MIX. SUBSURFACE DRAINAGE LINES MAY NEED TO BE ADDED TO INCREASE DRAINAGE.
  - MODIFY EXTREMELY SANDY SOILS (MORE THAN 85%) BY ADDING ORGANIC MATTER AND/OR DRY, SHREDDED CLAY LOAM UP TO 30% OF THE TOTAL MIX.
- FINISHED GRADING:
  - UNLESS OTHERWISE CONTRACTED, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF TOPSOIL AND THE ESTABLISHMENT OF FINE-GRADING WITHIN THE DISTURBANCE AREA OF THE SITE.
  - LANDSCAPE CONTRACTOR SHALL VERIFY THAT SUBGRADE FOR INSTALLATION OF TOPSOIL HAS BEEN ESTABLISHED. THE SUBGRADE OF THE SITE MUST MEET THE FINISHED GRADE LESS THE REQUIRED TOPSOIL THICKNESS (1").
  - ALL LAWN AND PLANTING AREAS SHALL BE GRADED TO A SMOOTH, EVEN AND UNIFORM PLANE WITH NO ABRUPT CHANGE OF SURFACE AS DEPICTED WITHIN THIS SET OF CONSTRUCTION PLANS, UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER OR LANDSCAPE ARCHITECT.
  - ALL PLANTING AREAS SHALL BE GRADED AND MAINTAINED TO ALLOW FREE FLOW OF SURFACE WATER IN AND AROUND THE PLANTING BEDS. STANDING WATER SHALL NOT BE PERMITTED IN PLANTING BEDS.
- TOPSOILING:
  - CONTRACTOR SHALL PROVIDE A 6" THICK MINIMUM LAYER OF TOPSOIL, OR AS DIRECTED BY THE LOCAL ORDINANCE OR CLIENT, IN ALL PLANTING AREAS. TOPSOIL SHOULD BE SPREAD OVER A PREPARED SURFACE IN A UNIFORM LAYER TO ACHIEVE THE DESIRED COMPACTED THICKNESS.
  - ON-SITE TOPSOIL MAY BE USED TO SUPPLEMENT THE TOTAL AMOUNT REQUIRED. TOPSOIL FROM THE SITE MAY BE REJECTED IF IT HAS NOT BEEN PROPERLY REMOVED, STORED AND PROTECTED PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL FURNISH TO THE APPROVING AGENCY AN ANALYSIS OF BOTH IMPORTED AND ON-SITE

- TOPSOIL TO BE UTILIZED IN ALL PLANTING AREAS. THE PH AND NUTRIENT LEVELS MAY NEED TO BE ADJUSTED THROUGH SOIL MODIFICATIONS AS NEEDED TO ACHIEVE THE REQUIRED LEVELS AS SPECIFIED IN THE MATERIALS SECTION ABOVE.
- ALL LAWN AREAS ARE TO BE CULTIVATED TO A DEPTH OF SIX INCHES (6"). ALL DEBRIS EXPOSED FROM EXCAVATION AND CULTIVATION SHALL BE DISPOSED OF IN ACCORDANCE WITH GENERAL WORK PROCEDURES SECTION ABOVE. THE FOLLOWING SHALL BE TILLED INTO THE TOP FOUR INCHES (4") IN TWO DIRECTIONS (QUANTITIES BASED ON A 1000 SQ. FOOT AREA - FOR BID PURPOSES ONLY (SEE SPECIFICATION 6.A.J)):
  - 20 POUNDS 'GRO-POWER' OR APPROVED SOIL CONDITIONER/FERTILIZER
  - 20 POUNDS NITRO-FORM (COURSE) 38-0-0 BLUE CHIP OR APPROVED NITROGEN FERTILIZER
- THE SPREADING OF TOPSOIL SHALL NOT BE CONDUCTED UNDER MUDDY OR FROZEN CONDITIONS.
- INSOFAR THAT IT IS FEASIBLE, PLANT MATERIAL SHALL BE PLANTED ON THE DAY OF DELIVERY. IN THE EVENT THAT THIS IS NOT POSSIBLE, LANDSCAPE CONTRACTOR SHALL PROTECT UNINSTALLED PLANT MATERIAL. PLANTS SHALL NOT REMAIN UNPLANTED FOR LONGER THAN A THREE DAY PERIOD AFTER DELIVERY. PLANTS THAT WILL NOT BE PLANTED FOR A PERIOD OF TIME GREATER THAN THREE DAYS SHALL BE HEALED IN WITH TOPSOIL OR MULCH TO HELP PRESERVE ROOT MOISTURE.
- PLANTING OPERATIONS SHALL BE PERFORMED DURING PERIODS WITHIN THE PLANTING SEASON WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE AND IN ACCORDANCE WITH ACCEPTED LOCAL PRACTICE. PLANTS SHALL NOT BE INSTALLED IN TOPSOIL THAT IS IN A MUDDY OR FROZEN CONDITION.
- ANY INJURED ROOTS OR BRANCHES SHALL BE PRUNED TO MAKE CLEAN-CUT ENDS PRIOR TO PLANTING UTILIZING CLEAN, SHARP TOOLS. ONLY INJURED OR DISEASED BRANCHING SHALL BE REMOVED.
- ALL PLANTING CONTAINERS, BASKETS AND NON-BIODEGRADABLE MATERIALS SHALL BE REMOVED FROM ROOT BALLS DURING PLANTING. NATURAL FIBER BURLAP MUST BE CUT FROM AROUND THE TRUNK OF THE TREE AND FOLDED DOWN AGAINST THE ROOT BALL PRIOR TO BACKFILLING.
- POSITION TREES AND SHRUBS AT THEIR INTENDED LOCATIONS AS PER THE PLANS AND SECURE THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO EXCAVATING PITS, MAKING NECESSARY ADJUSTMENTS AS DIRECTED.
- PRIOR TO THE ISSUANCE OF ANY CERTIFICATE OF OCCUPANCY, THE PROPOSED LANDSCAPE, AS SHOWN ON THE APPROVED LANDSCAPE PLAN, MUST BE INSTALLED, INSPECTED AND APPROVED BY THE APPROVING AGENCY. THE APPROVING AGENCY SHALL TAKE INTO ACCOUNT SEASONAL CONSIDERATIONS IN THIS REGARD AS FOLLOWS. THE PLANTING OF TREES, SHRUBS, VINES OR GROUND COVER SHALL OCCUR ONLY DURING THE FOLLOWING PLANTING SEASONS:
  - PLANTS, MARCH 15 TO DECEMBER 15
  - PLANTINGS REQUIRED FOR A CERTIFICATE OF OCCUPANCY SHALL BE PROVIDED DURING THE NEXT APPROPRIATE SEASON AT THE MUNICIPALITY'S DISCRETION. CONTRACTOR SHOULD CONTACT APPROVING AGENCY FOR POTENTIAL SUBSTITUTIONS.
- FURTHERMORE, THE FOLLOWING TREE VARIETIES ARE UNUSUALLY SUSCEPTIBLE TO WINTER DAMAGE. WITH TRANSPLANT SHOCK AND THE SEASONAL LACK OF NITROGEN AVAILABILITY, THE RISK OF PLANT DEATH IS GREATLY INCREASED. IT IS NOT RECOMMENDED THAT THESE SPECIES BE PLANTED DURING THE FALL PLANTING SEASON:
 

ACER RUBRUM	PLATANUS X ACERIFOLIA
BETULA VARIETIES	POPULUS VARIETIES
CARPINUS VARIETIES	PRUNUS VARIETIES
CRATAEGUS VARIETIES	PYRUS VARIETIES
KOELREUTERIA	QUERCUS VARIETIES
LIQUIDAMBAR STYRACIFILIA	TILIA TOMENTOSA
LIRIODENDRON TULIPIFERA	ZELKOVA VARIETIES
- PLANTING PITS SHALL BE DUG WITH LEVEL BOTTOMS, WITH THE WIDTH TWICE THE DIAMETER OF ROOT BALL. THE ROOT BALL SHALL REST ON UNDISTURBED GRADE. EACH PLANT PIT SHALL BE BACKFILLED IN LAYERS WITH THE FOLLOWING PREPARED SOIL MIXED THOROUGHLY:
  - 1 PART PEAT MOSS
  - 1 PART COMPOSTED COW MANURE BY VOLUME
  - 3 PARTS TOPSOIL BY VOLUME
- 21 GRAMS 'AGRIFORM' PLANTING TABLETS (OR APPROVED EQUAL) AS FOLLOWS:
  - 2 TABLETS PER 1 GALLON PLANT
  - 3 TABLETS PER 5 GALLON PLANT
  - 4 TABLETS PER 15 GALLON PLANT
  - LARGER PLANTS: 2 TABLETS PER 1/2" CALIPER OF TRUNK
- PREPARED SOIL AROUND BALL OF PLANT HALF-WAY AND INSERT PLANT TABLETS. COMPLETE BACKFILL AND WATER THOROUGHLY.
- ALL PLANTS SHALL BE PLANTED SO THAT THE TOP OF THE ROOT BALL, THE POINT AT WHICH THE ROOT FLARE BEGINS, IS SET AT GROUND LEVEL AND IN THE CENTER OF THE PIT. NO SOIL IS TO BE PLACED DIRECTLY ON TOP OF THE ROOT BALL.
- ALL PROPOSED TREES DIRECTLY ADJACENT TO WALKWAYS OR DRIVEWAYS SHALL BE PRUNED AND MAINTAINED TO A MINIMUM BRANCHING HEIGHT OF 7' FROM GRADE.
- GROUND COVER AREAS SHALL RECEIVE A 1/4" LAYER OF HUMUS RAKED INTO THE TOP 1" OF PREPARED SOIL PRIOR TO PLANTING. ALL GROUND COVER AREAS SHALL BE WEEDED AND TREATED WITH A PEAR-EMERGENT WEEDER AS PER THE MANUFACTURER'S RECOMMENDATIONS.
- NO PLANT, EXCEPT GROUND COVERS, GRASSES OR VINES, SHALL BE PLANTED LESS THAN TWO FEET (2') FROM EXISTING STRUCTURES AND SIDEWALKS.
- ALL PLANTING AREAS AND PLANTING PITS SHALL BE MULCHED AS SPECIFIED HEREIN TO FILL THE ENTIRE BED TO INSTALLATION OF ANY LANDSCAPE MATERIAL.
- ALL PLANTING AREAS SHALL BE WATERED IMMEDIATELY UPON INSTALLATION IN ACCORDANCE WITH THE WATERING SPECIFICATIONS AS LISTED HEREIN.
- TRANSPLANTING (WHEN REQUIRED):
  - ALL TRANSPLANTS SHALL BE DUG WITH INTACT ROOT BALLS CAPABLE OF SUSTAINING THE PLANT.
  - IF PLANTS ARE TO BE STOCKPILED BEFORE REPLANTING, THEY SHALL BE HEALED IN WITH MULCH OR SOIL, ADEQUATELY WATERED AND PROTECTED FROM EXTREME HEAT, SUN AND WIND.
  - PLANTS SHALL NOT BE DUG FOR TRANSPLANTING BETWEEN APRIL 10 AND JUNE 30.
  - UPON REPLANTING, BACKFILL SOIL SHALL BE AMENDED WITH FERTILIZER AND ROOT GROWTH HORMONE.
  - TRANSPLANTS SHALL BE GUARANTEED FOR THE LENGTH OF THE GUARANTEE PERIOD SPECIFIED HEREIN.
  - F TRANSPLANTS DIE, SHRUBS AND TREES LESS THAN SIX INCHES (6") DBH SHALL BE REPLACED IN KIND. TREES GREATER THAN SIX INCHES (6") DBH MAY BE REQUIRED TO BE REPLACED IN ACCORDANCE WITH THE MUNICIPALITY'S TREE REPLACEMENT GUIDELINES.
- WATERING:
  - NEW PLANTINGS OR LAWN AREAS SHALL BE ADEQUATELY IRRIGATED BEGINNING IMMEDIATELY AFTER PLANTING. WATER SHALL BE APPLIED TO EACH TREE AND SHRUB IN SUCH MANNER AS NOT TO DISTURB BACKFILL AND TO THE EXTENT THAT ALL MATERIALS IN THE PLANTING HOLE ARE THOROUGHLY SATURATED. WATERING SHALL CONTINUE AT LEAST UNTIL PLANTS ARE ESTABLISHED.
  - THE SITE OWNER SHALL PROVIDE WATER IF AVAILABLE ON SITE AT TIME OF PLANTING. IF WATER IS NOT AVAILABLE ON SITE, CONTRACTOR SHALL SUPPLY ALL NECESSARY WATER. THE USE OF WATERING BAGS IS RECOMMENDED FOR ALL NEWLY PLANTED TREES.
  - IF AN IRRIGATION SYSTEM HAS BEEN INSTALLED ON THE SITE, IT SHALL BE USED TO WATER PROPOSED PLANT MATERIAL, BUT ANY FAILURE OF THE SYSTEM SHALL BE THE CONTRACTOR'S RESPONSIBILITY OF MAINTAINING THE DESIRED MOISTURE LEVEL FOR VIGOROUS, HEALTHY GROWTH.
- GUARANTEE:
  - THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANTS FOR A PERIOD OF 1 YEAR FROM APPROVAL OF LANDSCAPE INSTALLATION BY THE APPROVING AGENCY. CONTRACTOR SHALL SUPPLY THE OWNER WITH A MAINTENANCE BOND FOR TEN PERCENT (10%) OF THE LANDSCAPE INSTALLATION WHICH WILL BE RELEASED AT THE CONCLUSION OF THE GUARANTEE PERIOD AND WHEN A FINAL INSPECTION HAS BEEN COMPLETED AND APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.
  - ANY DEAD OR DYING PLANT MATERIAL SHALL BE REPLACED FOR THE LENGTH OF THE GUARANTEE PERIOD. REPLACEMENT OF PLANT MATERIAL SHALL BE CONDUCTED AT THE FIRST SUCCEEDING PLANTING SEASON. ANY DEBRIS SHALL BE DISPOSED OF OFF-SITE, WITHOUT EXCEPTION.
  - TREES AND SHRUBS SHALL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION AND THROUGHOUT THE 90 DAY MAINTENANCE PERIOD AS SPECIFIED HEREIN. CULTIVATION, WEEDING, WATERING AND THE PREVENTATIVE TREATMENTS SHALL BE PERFORMED AS NECESSARY TO KEEP PLANT MATERIAL IN GOOD CONDITION AND FREE OF INSECTS AND DISEASE.
  - LAWNS SHALL BE MAINTAINED THROUGH WATERING, FERTILIZING, WEEDING, TRIMMING AND OTHER OPERATIONS SUCH AS ROLLING, RAGGING AND REPLANTING AS REQUIRED TO ESTABLISH A SMOOTH, ACCEPTABLE LAWN, FREE OF ERODED OR BARE AREAS.
  - CLEANUP:
    - UPON THE COMPLETION OF ALL LANDSCAPE INSTALLATION AND BEFORE THE FINAL ACCEPTANCE, THE CONTRACTOR SHALL REMOVE ALL UNUSED MATERIALS, EQUIPMENT AND DEBRIS FROM THE SITE. ALL PAVED AREAS ARE TO BE CLEANED.
    - THE SITE SHALL BE CLEANED AND LEFT IN A NEAT AND ACCEPTABLE CONDITION AS APPROVED BY THE OWNER OR AUTHORIZED REPRESENTATIVE.
  - MAINTENANCE (ALTERNATIVE BID):
    - A 90 DAY MAINTENANCE PERIOD SHALL COMMENCE AT THE END OF ALL LANDSCAPE INSTALLATION OPERATIONS. THE 90 DAY MAINTENANCE PERIOD ENSURES TO THE OWNER/OPERATOR THAT THE NEWLY INSTALLED LANDSCAPING HAS BEEN MAINTAINED AS SPECIFIED ON THE APPROVED LANDSCAPE PLAN. ONCE THE INITIAL 90 DAY MAINTENANCE PERIOD HAS EXPIRED, THE OWNER/OPERATOR MAY REQUEST THAT BIDDERS SUBMIT AN ALTERNATE MAINTENANCE BID FOR A MONTHLY MAINTENANCE CONTRACT. THE ALTERNATE MAINTENANCE CONTRACT WILL ENCOMPASS ANY WORK THAT IS CONSIDERED APPROPRIATE TO ENSURE THAT PLANT AND LAWN AREAS ARE HEALTHY AND MAINTAINED TO THE APPROVAL OF THE OWNER/OPERATOR.





**LIGHT HOURS OF OPERATION:**

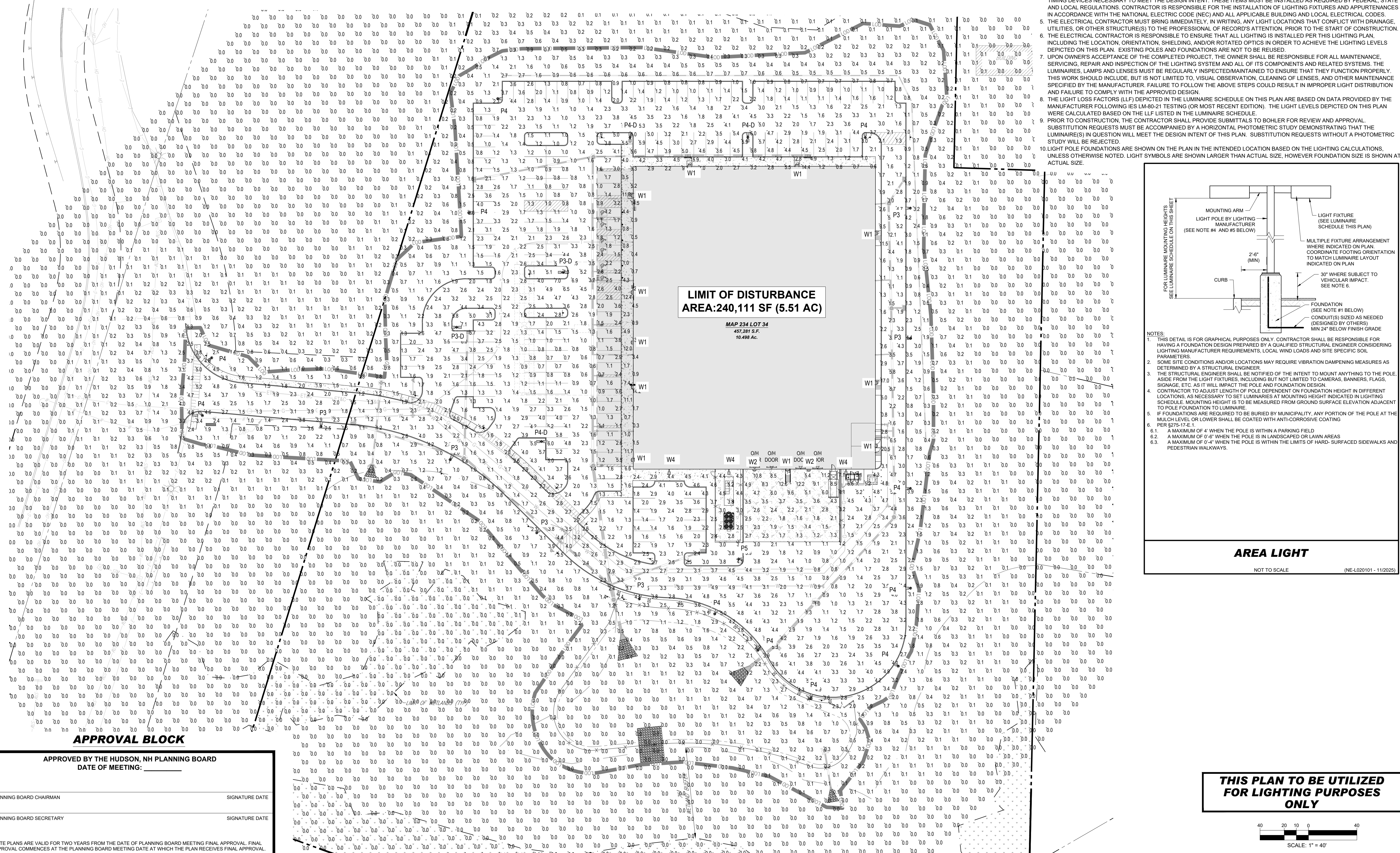
LIGHTS WILL OPERATE ON TIMERS 1 HOUR BEFORE OPENING AND 2 HOURS AFTER CLOSING.  
MON 7:00 AM - 6:00 PM  
TUE 7:00 AM - 6:00 PM  
WED 7:00 AM - 6:00 PM  
THU 7:00 AM - 7:00 PM  
FRI 7:00 AM - 6:00 PM  
SAT 7:30 AM - 4:00 PM  
SUN 9:00 AM - 2:00 PM

LUMINAIRE SCHEDULE table with columns: LABEL, QTY, ARRANGEMENT, MOUNTING HEIGHT, LLF, LUM. LUMENS, DESCRIPTION. Includes rows for W2, P3-D, P3, P4-D, W4, P5, and W1.

CALCULATION SUMMARY table with columns: LABEL, CALC TYPE, UNITS, AVG, MAX, MIN, AVGMIN, MAXMIN. Includes rows for ALL POINTS, ENTRANCE DRIVE, INTERNAL DRIVE, LOADING AREA, and PARKING COURT.

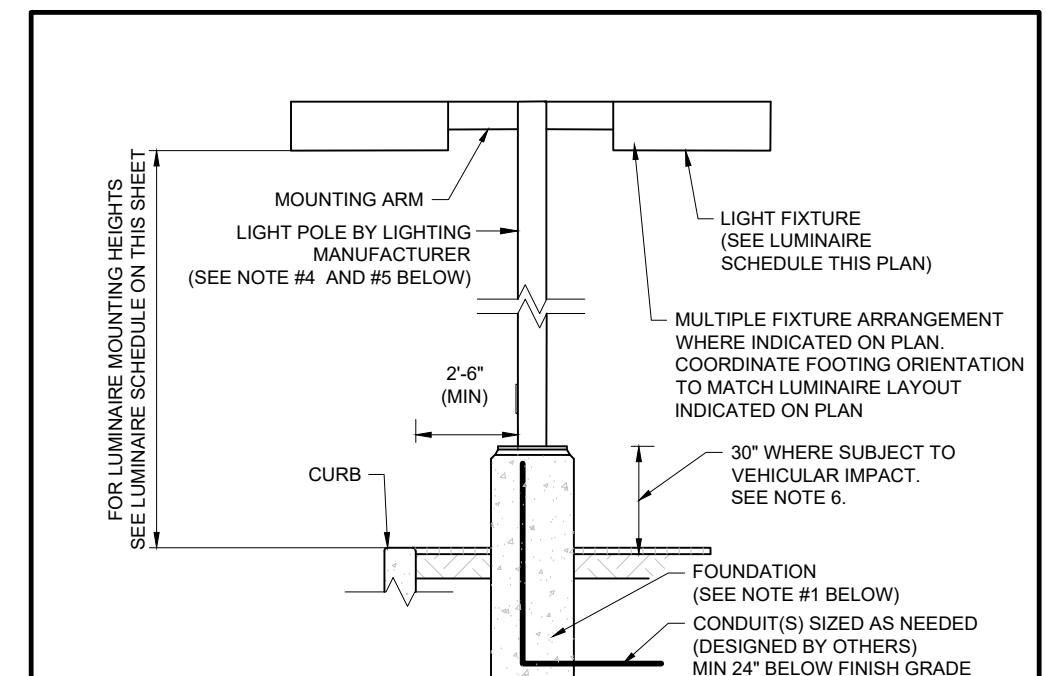
**GENERAL LIGHTING NOTES:**

- 1. THE GENERAL NOTES, FOUND ON THE NOTES PAGE OF THIS PLAN SET, MUST BE INCLUDED AS PART OF THIS ENTIRE DOCUMENT PACKAGE AND ARE PART OF THE CONTRACT DOCUMENTS. THE ELECTRICAL CONTRACTOR MUST BECOME FAMILIAR WITH, REFER TO AND FULLY COMPLY WITH THESE NOTES, IN THEIR ENTIRETY.
2. THE ELECTRICAL CONTRACTOR MUST COMPLY WITH ALL APPLICABLE CONTRACTOR REQUIREMENTS INDICATED IN THIS LIGHTING PLAN, INCLUDING BUT NOT LIMITED TO GENERAL NOTES, GRADING AND UTILITY NOTES, SITE SAFETY, AND ALL APPLICABLE AGENCY AND GOVERNMENTAL REGULATIONS. THE LIGHTING PLAN DEPICTS PROPOSED, SUSTAINED ILLUMINATION LEVELS CALCULATED USING DATA PROVIDED BY THE NOTED MANUFACTURER(S). ACTUAL SUSTAINED SITE ILLUMINATION LEVELS AND PERFORMANCE OF LUMINAIRES MAY DIFFER FROM THE VALUES DEPICTED ON THIS PLAN DUE TO VARIATIONS IN WEATHER, ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS, MAINTENANCE, THE SERVICE LIFE OF EQUIPMENT AND LUMINAIRES, EXISTING AMBIENT LIGHT SOURCE ON AND OFF SITE, AND OTHER RELATED VARIABLE FIELD CONDITIONS.
3. THE LIGHTING VALUES AND CALCULATION POINTS DEPICTED ON THIS PLAN ARE ANALYZED ON A HORIZONTAL GEOMETRIC PLANE AT GROUND LEVEL UNLESS OTHERWISE NOTED. ILLUMINATION LEVELS ARE SHOWN IN FOOTCANDLES (FC).
4. THE LIGHTING PLAN IS INTENDED TO SHOW THE LOCATIONS AND TYPE OF LUMINAIRES, POWER SYSTEM, CONDUITS, WIRING, CONTROLS, AND OTHER ELECTRICAL COMPONENTS ARE SOLELY THE ARCHITECT'S, ELECTRICAL ENGINEER'S AND/OR ELECTRICAL CONTRACTOR'S RESPONSIBILITY, AS INDICATED IN THE CONSTRUCTION CONTRACT DOCUMENTS. THE CONTRACTOR MUST COORDINATE WITH THE PROJECT ARCHITECT AND/OR ELECTRICAL ENGINEER REGARDING ANY AND ALL POWER SOURCES AND TIMING DEVICES NECESSARY TO MEET THE DESIGN INTENT. THESE ITEMS MUST BE INSTALLED AS REQUIRED BY FEDERAL, STATE AND LOCAL REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF LIGHTING FIXTURES AND APPURTENANCES IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC) AND ALL APPLICABLE BUILDING AND LOCAL ELECTRICAL CODES.
5. THE ELECTRICAL CONTRACTOR MUST BRING IMMEDIATELY, IN WRITING, ANY LIGHT LOCATIONS THAT CONFLICT WITH DRAINAGE, UTILITIES, OR OTHER STRUCTURES TO THE PROFESSIONAL OF RECORD'S ATTENTION, PRIOR TO THE START OF CONSTRUCTION. THIS WORK SHOULD INCLUDE, BUT IS NOT LIMITED TO, VISUAL OBSERVATION, CLEANING OF LENSES, AND OTHER MAINTENANCE SPECIFIED BY THE MANUFACTURER. FAILURE TO FOLLOW THE ABOVE STEPS COULD RESULT IN IMPROPER LIGHT DISTRIBUTION AND FAILURE TO COMPLY WITH THE APPROVED DESIGN.
6. THE LIGHT LOSS FACTORS (LLF) DEPICTED IN THE LUMINAIRE SCHEDULE ON THIS PLAN ARE BASED ON DATA PROVIDED BY THE MANUFACTURER FOLLOWING IES LM-80-21 TESTING (OR MOST RECENT EDITION). THE LIGHT LEVELS DEPICTED ON THIS PLAN WERE CALCULATED BASED ON THE LLF LISTED IN THE LUMINAIRE SCHEDULE.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE SUBMITTALS TO BOHLER FOR REVIEW AND APPROVAL. SUBSTITUTION REQUESTS MUST BE ACCOMPANIED BY A HORIZONTAL PHOTOMETRIC STUDY DEMONSTRATING THAT THE LUMINAIRE(S) IN QUESTION WILL MEET THE DESIGN INTENT OF THIS PLAN. SUBSTITUTION REQUESTS WITHOUT A PHOTOMETRIC STUDY WILL BE REJECTED.
8. LIGHT POLE FOUNDATIONS ARE SHOWN ON THE PLAN IN THE INTENDED LOCATION BASED ON THE LIGHTING CALCULATIONS, UNLESS OTHERWISE NOTED. LIGHT SYMBOLS ARE SHOWN LARGER THAN ACTUAL SIZE, HOWEVER FOUNDATION SIZE IS SHOWN AT ACTUAL SIZE.



LIMIT OF DISTURBANCE AREA: 240,111 SF (5.51 AC)

MAP 234 LOT 34 457,281 S.F. 10,498 A.C.



- NOTES:
1. THIS DETAIL IS FOR GRAPHICAL PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING A FOUNDATION DESIGN PREPARED BY A QUALIFIED STRUCTURAL ENGINEER CONSIDERING LIGHTING MANUFACTURER REQUIREMENTS, LOCAL WIND LOADS AND SITE SPECIFIC SOIL PARAMETERS.
2. SOME SITE CONDITIONS AND/OR LOCATIONS MAY REQUIRE VIBRATION DAMPENING MEASURES AS DETERMINED BY A STRUCTURAL ENGINEER.
3. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED OF THE INTENT TO MOUNT ANYTHING TO THE POLE, ASIDE FROM THE LIGHT FIXTURES, INCLUDING BUT NOT LIMITED TO CAMERAS, BANNERS, FLAGS, SIGNAGE, ETC. AS IT WILL IMPACT THE POLE AND FOUNDATION DESIGN.
4. CONTRACTOR TO ADJUST LENGTH OF POLE DEPENDENT ON FOUNDATION HEIGHT IN DIFFERENT LOCATIONS, AS NECESSARY TO SET LUMINAIRES AT MOUNTING HEIGHT INDICATED IN LIGHTING SCHEDULE. MOUNTING HEIGHT IS TO BE MEASURED FROM GROUND SURFACE ELEVATION ADJACENT TO POLE FOUNDATION TO LUMINAIRE.
5. IF FOUNDATIONS ARE REQUIRED TO BE BURIED BY MUNICIPALITY, ANY PORTION OF THE POLE AT THE MOUND LEVEL OR LOWER SHALL BE COATED WITH ANTI-CORROSION COATING.
6. PER 825-FR-1:
6.1. A MAXIMUM OF 4' WHEN THE POLE IS WITHIN A PARKING FIELD.
6.2. A MAXIMUM OF 6'-8" WHEN THE POLE IS IN LANDSCAPED OR LAWN AREAS.
6.3. A MAXIMUM OF 9'-4" WHEN THE POLE IS WITHIN THE LIMITS OF HARD-SURFACED SIDEWALKS AND PEDESTRIAN WALKWAYS.

**AREA LIGHT**

NOT TO SCALE (NE-1020101 - 11/2025)

THIS PLAN TO BE UTILIZED FOR LIGHTING PURPOSES ONLY



SCALE: 1" = 40'

BOHLER logo and company name: BOHLER SITE CIVIL AND CONSULTING ENGINEERING. Services include LAND SURVEYING, PROGRAM MANAGEMENT, LANDSCAPE ARCHITECTURE, SUSTAINABLE DESIGN, PERMITTING SERVICES, and TRANSPORTATION SERVICES.

REVISIONS table with columns: REV, DATE, COMMENT, DRAWN BY, CHECKED BY. Includes two revision entries.

811 logo and text: Know what's below. Call before you dig. ALWAYS CALL 811. It's fast. It's free. It's the law.

**PERMIT SET**

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT: SITE DEVELOPMENT PLANS FOR RESTAURANT DEPOT

Where Restaurants Eat logo.

PROPOSED RESTAURANT DEPOT 273 LOWELL ROAD HUDSON, NEW HAMPSHIRE PARCEL ID: 234-034-000

BOHLER logo and contact information: 3 EXECUTIVE PARK DRIVE FLOOR 2 BEDFORD, NH 03110 Phone: (603) 441-2900 www.BohlerEngineering.com



SHEET TITLE: LIGHTING PLAN SHEET NUMBER: L-201 REVISION 2 - 05/12/2026

Map 11, 2026 P:\M\2025\NH\250020.01\CADD\DRAWINGS\PLAN SETS\CIVIL\SITE PLANS\CIVIL-LIGHT-NH\250020.01-2A-3-LAYOUT-L-201.LIGHT



# AREA LIGHT(MAL05)

## Specifications

- Construction:**
- Rugged one-piece, die-cast aluminum housing secures the thermally conductive LED panel and electrical chamber
  - Low profile, 3G vibration rated compact design minimizes wind load requirements.
  - Housing is completely sealed against moisture and environmental contaminants.

- Optics:**
- Available in IES Type III, IV, V distributions
  - Light engines are available in standard 4000 K and 5000 K (70 CRI) configurations.
  - Scalable Lumen Packages from 13,900 to 42,000 Lumens replaces up to 1000W Metal Halide.
  - Optics is precisely designed to shape the distribution, maximizing efficiency and application spacing.
  - The optics can conform to dark sky requirement.

- Electrical:**
- Universal 120-277 VAC or 347-480 VAC input voltage
  - Standard with 1-10V dimming driver(s)
  - Power adjustable: 100%, 80%, 60%, 40%.
  - THD: <20%
  - Power Factor: >90%

- Controls:**
- Optional occupancy sensor
  - Optional Photocell

- Ambient Temperature:**
- Estimated operating temperature -40° C to 40° C (-40° F to 104° F).

- Installation:**
- Suitable for mounting heights ranging from 26-50' in area lighting applications
  - Round pole, Square pole, slipfitter, wall mount and yoke are available.
  - The design can be operated by one person to install the whole lamp

- Lifespan:**
- Estimated 100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

- Finish:**
- It's available in black or optional dark bronze, silver gray or white.

- Certifications:**
- UL wet location listed
  - DesignLights Consortium™ Qualified
  - Notes: DesignLights Consortium™ Qualified and classified for DLC Premium (all lumen packages), refer to www.designlights.org for details.

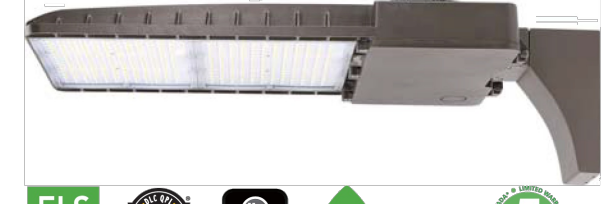
Small Size: 100W



Medium Size: 150W



Large Size: 250W/300W



**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C (±5°C) specifications subject to change without notice.



## Outdoor Luminaires

### FI G4 SERIES - LED 3-WATT Semi Cutoff Wall Pack

The FI G4 SERIES - LED 3-WATT Semi Cutoff Wall Pack, Up to 150 lm/W, Select 3X-Wattages, IP65 Wet Location, 0-10V Dimmable Models, Premium Outdoor Luminaire, Smart Sensor Ready.

#### Premium Features

Lumen Output	6750 to 17040 lumens
Efficacy	Up to 150 lm/W
Input Voltage	120-277V
Dimmable	0-10V Continuous
CCT	50K
IP Rating	IP65 Wet Location
Warranty	7 Years

#### Applications

Premium outdoor luminaire suitable for building exteriors, entryways, courtyards, alleys, pedestrian walkways, and general security.

#### Construction

Manufactured for weather-proof durability using solid heavy duty die cast aluminum housing with anti-UV polyester coating to resist water, salt, corrosion, discoloration, and scratching. IP65 Wet Location rated for dust-tight, water jets: IEC 60529.

#### Electrical

Input voltages 120-277V models with 0-10V Continuous Dimming, includes 3X-Wattage Tuning Switches inside housing. Operating temperatures -4°F to 113°F (-20°C to 45°C).

#### Mounting

Wall mounted installations. Includes Mounting Level inside housing.

#### Optics

Anti-UV Clear Prismatic Glass Lens.

#### Controls

Fixture integrated Button Photocell sensor available.

#### Listings

UL certified to meet US and Canadian standards. FCC, and RoHS compliant. Listed to qualify for energy-efficient LED lighting rebates.

#### Warranty

7 yr /75K hrs. View at: <https://falkorindustry.com/warranty/>.

Project: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Catalog No: \_\_\_\_\_  
 Prepared By: \_\_\_\_\_

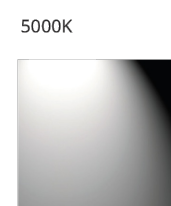
80W Max and 120W Max Tunable Models



Includes Silicone Water Repellent Ring and Internal Mounting Level



Correlated Color Temperatures (CCT)



#### Specifications

##### Energy Data

Input Voltage: 120-277V  
 Input Frequency: 50/60 Hz  
 Wattage: 3-Wattages (80W Max, 120W Max)  
 Power Factor: >0.9  
 Total Harmonic Distortion: <20%  
 Operating Temperature: -4°F to 113°F (-20°C to 45°C)

##### Lighting Data

Lumens: 6750 to 17040 lumens  
 Lumens Per Watt: Up to 150 lm/W  
 CCT: 50K  
 Dimmable: 0-10V Models  
 Color Rendering Index (CRI): >80  
 L70: 75000 hours

© 2024 Falkor Industry, Inc. | US Headquarters: 9949 Tabor Pl, Santa Fe Springs, CA 90670 | Customer Service: (323) 364-7035 | Visit: [falkorindustry.com](http://falkorindustry.com) | V.403



## Outdoor Luminaires

### MWP13 SERIES - LED Tunable and Single Full Cutoff Wall Pack

The MWP13 SERIES - LED Tunable and Single Full Cutoff Wall Pack, Up to 140 lm/W, IP65 Wet Location, Select 3X-CCT and 4X-Wattages, 0-10V Dimmable, Premium Outdoor Luminaire.

#### Premium Features

Lumen Output	3600 to 14000 lumens
Efficacy	Up to 140 lm/W
Input Voltage	120-277V
Dimmable	0-10V
CCT	5000K, Select (30K, 40K, 50K)
IP Rating	IP65 Wet Location
Warranty	5 Years

#### Applications

Premium outdoor luminaire suitable for building exteriors, entryways, courtyards, alleys, pedestrian walkways, and general security.

#### Construction

Manufactured for weather-proof durability using solid heavy duty die cast aluminum housing with anti-UV polyester coating to resist water, salt, corrosion, discoloration, and scratching. 3G vibration testing prescribed by ANSI C136.31 standards. IP65 Wet Location rated for dust-tight, water jets: IEC 60529.

#### Electrical

Input voltages 120-277V, 0-10V Dimmable models. Includes 3X-CCT and 4X-Wattage Tuning Switches inside housing. Operating temperatures -40°F to 104°F (-40°C to 40°C).

#### Mounting

Wall mounted installation.

#### Specifications

##### Energy Data

Input Voltage: 120-277V  
 Input Frequency: 50/60 Hz  
 Wattage: 27W, 45W, 70W, 3-Wattages (45W Max, 95W Max)  
 Power Factor: >0.9  
 Total Harmonic Distortion: <20%  
 Operating Temperature: -40°F to 104°F (-40°C to 40°C)

##### Lighting Data

Lumens: 3600 to 14000 lumens  
 Lumens Per Watt: Up to 140 lm/W  
 CCT: 5000K, Select (30K, 40K, 50K)  
 Dimmable: 0-10V  
 Color Rendering Index (CRI): >70  
 L70: 50000 hours

© 2024 Falkor Industry, Inc. | US Headquarters: 9949 Tabor Pl, Santa Fe Springs, CA 90670 | Customer Service: (323) 364-7035 | Visit: [falkorindustry.com](http://falkorindustry.com) | W.408.1

Project: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Catalog No: \_\_\_\_\_  
 Prepared By: \_\_\_\_\_

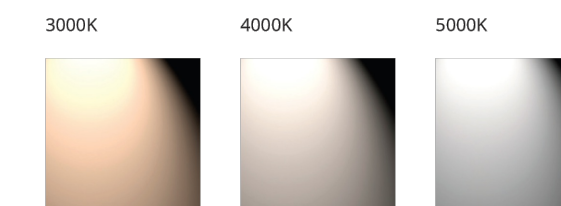
27W, 45W and 45W Max Models



70W and 95W Max Models



Correlated Color Temperatures (CCT)



**BOHLER**  
 SITE CIVIL AND CONSULTING ENGINEERING  
 LAND SURVEYING  
 PROGRAM MANAGEMENT  
 LANDSCAPE ARCHITECTURE  
 SUSTAINABLE DESIGN  
 PERMITTING SERVICES  
 TRANSPORTATION SERVICES

**REVISIONS**

REV	DATE	COMMENT	DRAWN BY	CHECKED BY
1	03/24/2026	TOWN & PEER REVIEW COMMENTS	MJW	KWC
2	05/12/2026	TOWN COMMENTS	MJW	KWC

**811**  
 Know what's below.  
 Call before you dig.  
 ALWAYS CALL 811  
 It's fast. It's free. It's the law.

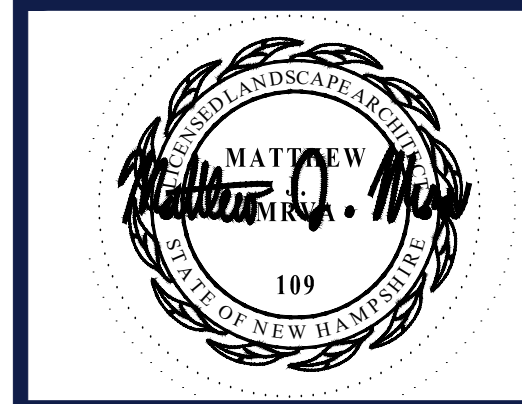
### PERMIT SET

THIS DRAWING IS INTENDED FOR MUNICIPAL AND/OR AGENCY REVIEW AND APPROVAL. IT IS NOT INTENDED AS A CONSTRUCTION DOCUMENT UNLESS INDICATED OTHERWISE.

PROJECT No.: NHA250020.01-2A  
 DRAWN BY: MJW  
 CHECKED BY: KWC  
 DATE: 01/23/2026  
 CAD I.D.: P-CIVL-LLGT

PROJECT:  
**SITE DEVELOPMENT PLANS**  
 FOR  
  
 PROPOSED RESTAURANT DEPOT  
 273 LOWELL ROAD  
 HUDSON, NEW HAMPSHIRE  
 PARCEL ID: 234-034-000

**BOHLER**  
 3 EXECUTIVE PARK DRIVE FLOOR 2  
 BEDFORD, NH 03110  
 Phone: (603) 441-2900  
[www.BohlerEngineering.com](http://www.BohlerEngineering.com)



SHEET TITLE:  
**LIGHTING NOTES AND DETAILS**  
 SHEET NUMBER:  
**L-202**  
 REVISION 2 - 05/12/2026

### APPROVAL BLOCK

APPROVED BY THE HUDSON, NH PLANNING BOARD  
 DATE OF MEETING: \_\_\_\_\_

PLANNING BOARD CHAIRMAN	SIGNATURE	DATE
PLANNING BOARD SECRETARY	SIGNATURE	DATE

SITE PLANS ARE VALID FOR TWO YEARS 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.

May 14, 2026  
 P:\M\2025\NHA250020.01\CADD\DRAWINGS\PLAN SETS\CIVIL SITE PLANS\PC-CIVL-LLGT-NHA250020.01-2A-...-LAYOUT-L-2021.LGT

**UTILITY NOTE**

THE UNDERGROUND UTILITIES DEPICTED HEREON HAVE BEEN DRAWN FROM FIELD SURVEY INFORMATION AND OR PLOTTED FROM EXISTING DRAWINGS. KEACH-NORDSTROM ASSOCIATES, INC. MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES DEPICTED COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. FURTHER, KEACH-NORDSTROM ASSOCIATES, INC. DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE. KEACH-NORDSTROM ASSOCIATES, INC. HAS NOT PHYSICALLY LOCATED THE UNDERGROUND PORTIONS OF THE UTILITIES.



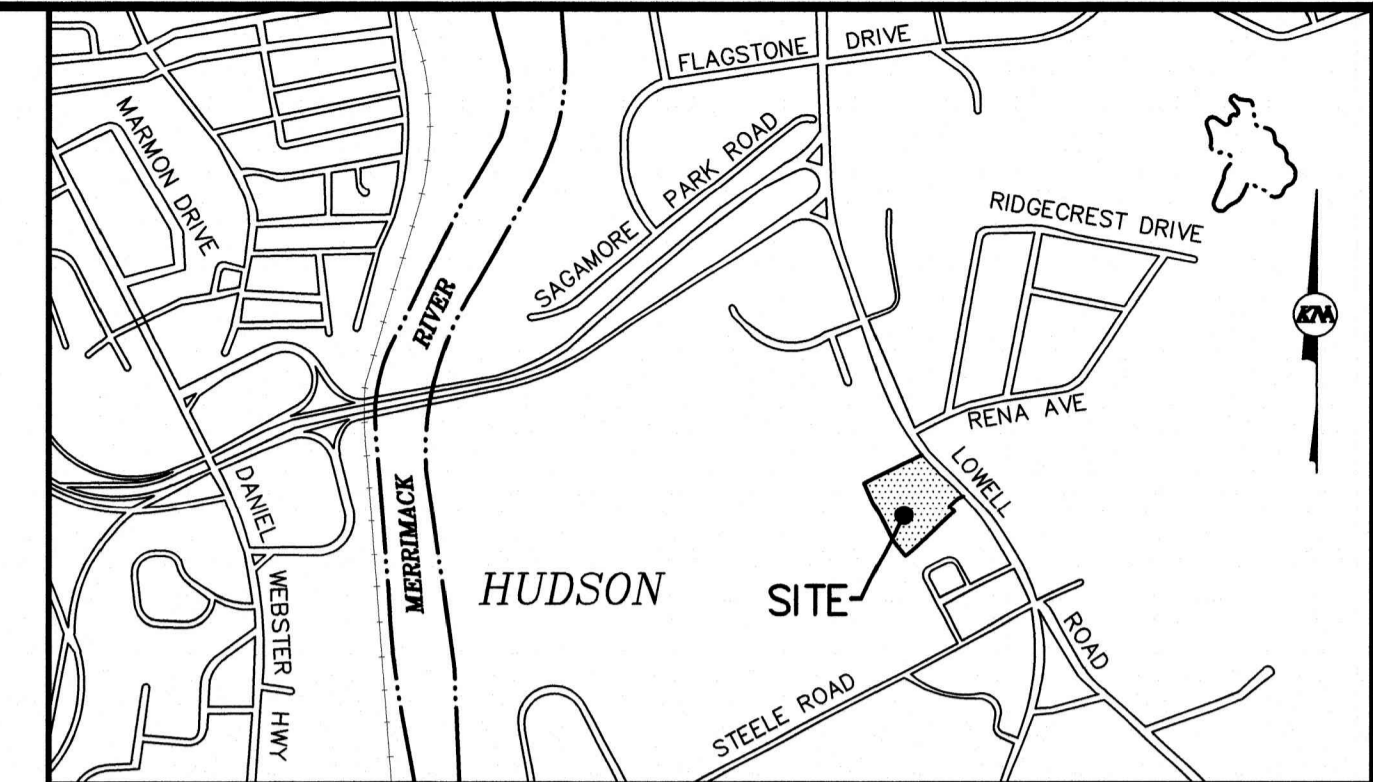
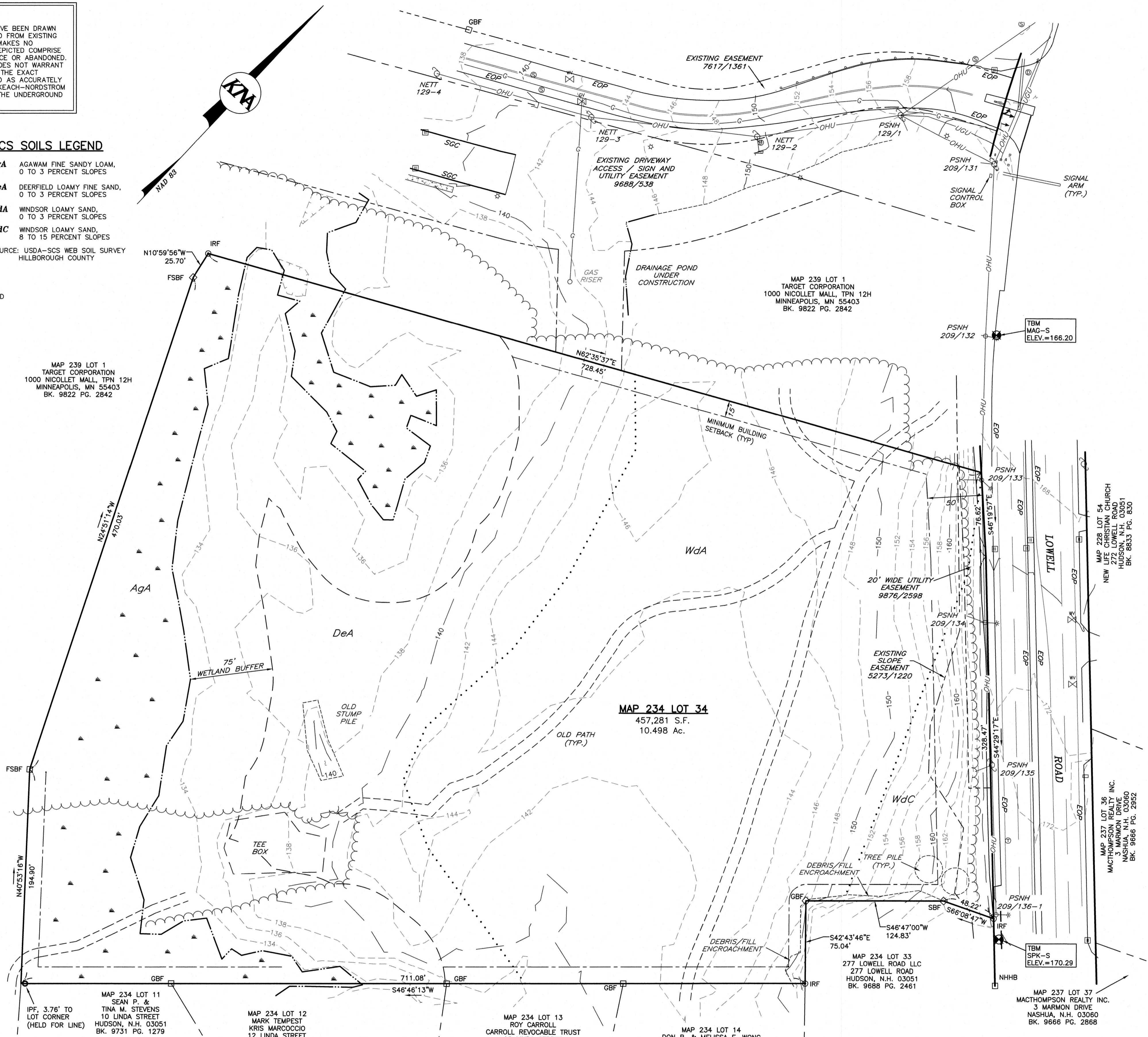
**SCS SOILS LEGEND**

- AgA** AGAWAM FINE SANDY LOAM, 0 TO 3 PERCENT SLOPES
  - DeA** DEERFIELD LOAMY FINE SAND, 0 TO 3 PERCENT SLOPES
  - WdA** WINDSOR LOAMY SAND, 0 TO 3 PERCENT SLOPES
  - WdC** WINDSOR LOAMY SAND, 8 TO 15 PERCENT SLOPES
- SOURCE: USDA-SCS WEB SOIL SURVEY HILLSBOROUGH COUNTY

**LEGEND**

- FSBF FIELD STONE BOUND FOUND
- GBF GRANITE BOUND FOUND
- SBF STONE BOUND FOUND
- IR-F IRON ROD FOUND
- IP-F IRON PIPE FOUND
- BENCHMARK
- UTILITY POLE
- STREET LIGHT
- WATER VALVE
- CATCH BASIN
- ABUTTER LINE
- PROPERTY LINE
- OVERHEAD UTILITIES
- TREELINE
- EDGE OF GRAVEL
- EOP EDGE OF PAVEMENT
- VGC VERTICAL GRANITE CURB
- 10' CONTOUR
- 2' CONTOUR
- SOIL LINE
- SETBACK
- WETLAND BUFFER
- GAS VALVE
- WELL
- SEWER MANHOLE
- DRAINAGE MANHOLE
- TELEPHONE MANHOLE
- GUARDRAIL
- WETLAND

MAP 239 LOT 1  
TARGET CORPORATION  
1000 NICOLLET MALL, TPN 12H  
MINNEAPOLIS, MN 55403  
BK. 9822 PG. 2842

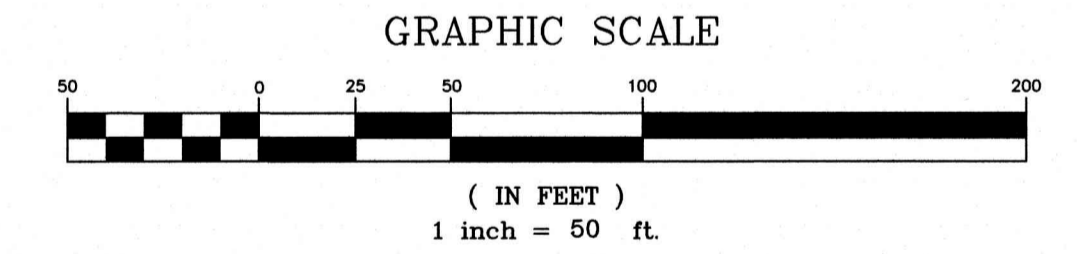


**VICINITY PLAN**  
SCALE: 1" = 2,000'

- NOTES:**
- THE PURPOSE OF THIS PLAN IS TO DEPICT THE EXISTING CONDITIONS PRESENT ON MAP 234 LOT 34 IN THE TOWN OF HUDSON, NEW HAMPSHIRE.
  - EXISTING AREA OF PARCEL: 457,281 S.F. OR 10.498 ACRES.
  - THE SUBJECT PARCEL IS LOCATED ENTIRELY WITHIN THE GENERAL 1 (G-1) ZONING DISTRICT.
  - DIMENSIONAL REQUIREMENTS ARE AS FOLLOWS:  
- FRONT 50'  
- SIDE 15'  
- REAR 15'
  - THE HORIZONTAL DATUM IS NAD 83 AND THE VERTICAL DATUM IS NAVD 88 FROM REAL TIME GPS SURVEY METHODS.
  - EXAMINATION OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAPS (FIRM) FOR THE TOWN OF HUDSON, NEW HAMPSHIRE, HILLSBOROUGH COUNTY, COMMUNITY PANEL NUMBER 3301100650 PANEL NUMBER 656 OF 701. EFFECTIVE DATE: SEPTEMBER 25, 2009 INDICATES THAT NO PORTION OF THE SUBJECT PARCEL IS LOCATED WITHIN FLOOD HAZARD ZONE.
  - THE LOCATION OF ANY UNDERGROUND UTILITY INFORMATION SHOWN HEREON IS APPROXIMATE. KEACH-NORDSTROM ASSOCIATES, INC. MAKES NO CLAIM TO THE ACCURACY OR COMPLETENESS OF THE UTILITIES SHOWN. PRIOR TO ANY EXCAVATION ON SITE THE CONTRACTOR OR OWNER SHALL CONTACT DIG-SAFE AT 811.
  - EASEMENTS, RIGHTS AND RESTRICTIONS SHOWN OR IDENTIFIED HEREON ARE THOSE FOUND DURING RESEARCH AT THE HILLSBOROUGH COUNTY REGISTRY OF DEEDS. OTHER EASEMENTS, RIGHTS AND RESTRICTIONS MAY EXIST WHICH A TITLE EXAMINATION OF THE SUBJECT PREMISES MAY DETERMINE.

**REFERENCE PLANS**

- "PLAN OF LAND OF E. STUART & DORIS E. GRAVES, HUDSON, N.H." SCALE: 1" = 100', MAY 1951 PREPARED BY NED SPAULDING, CIVIL ENGINEER, H.C.R.D. PLAN #1231.
- "LOT LINE RELOCATION PLAN FRIEL & GILE, MAP 7 LOTS 33 & 35, HUDSON, N.H." DATE: 9-3-91. LAST REVISED 9-25-91, PREPARED BY HOLDEN ENGINEERING & SURVEYING. H.C.R.D. PLAN #25441.
- "THE STATE OF NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY PLANS FEDERAL AID PROJECT STP-X-0005(217) N.H. PROJECT NO. 12461 N.H. ROUTE 3A. H.C.R.D. PLAN #31211.
- LOT LINE RELOCATION/CONSOLIDATION PLAN, HUDSON LOGISTICS CENTER, LOWELL AND STEELE ROADS HUDSON, NEW HAMPSHIRE." SCALE: 1"=100'. DATED: FEBRUARY 16, 2021. LAST REVISED: AUGUST 5, 2022. PREPARED BY: HSI HAYNER/SWANSON, INC. H.C.R.D. PLAN #41556.
- "EASEMENT PLAN (MAP 234, LOTS 34 & 35 AND MAP 239, LOT 1) HUDSON LOGISTICS CENTER, LOWELL AND STEELE ROAD, HUDSON, NEW HAMPSHIRE. SCALE: 1"=40' 28 DECEMBER 2022" PREPARED BY HSI HAYNER/SWANSON, INC. H.C.R.D. PLAN #41727.



**EXISTING CONDITIONS PLAN**

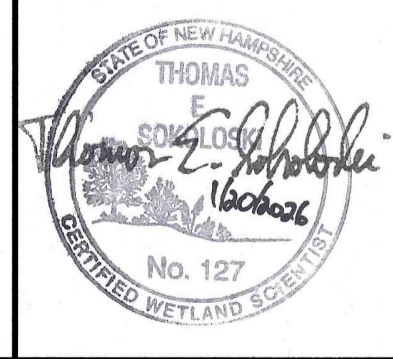
MAP 234 LOT 34  
273 LOWELL ROAD  
HUDSON, NEW HAMPSHIRE  
HILLSBOROUGH COUNTY

**OWNER:**  
THOMAS P. FRIEL TRUSTEE  
FRIEL 2021 REVOCABLE TRUST  
55 MARSH ROAD  
HUDSON, N.H. 03051  
H.C.R.D. BK. 9486 PG. 2979

**KMA** KEACH-NORDSTROM ASSOCIATES, INC.  
Civil Engineering Land Surveying Landscape Architecture  
10 Commerce Park North, Suite 3B, Bedford, NH 03110 Phone (603) 627-2881

**WETLAND CERTIFICATION**

THOMAS E. SOKOLOSKI CERTIFIED WETLAND SCIENTIST #127, OF TES ENVIRONMENTAL CONSULTANTS, LLC. PERFORMED THE WETLAND MAPPING IN SEPTEMBER OF 2025 ACCORDING TO THE TECHNICAL CRITERIA OF THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (TECHNICAL REPORT Y-87-1, JANUARY 1987)



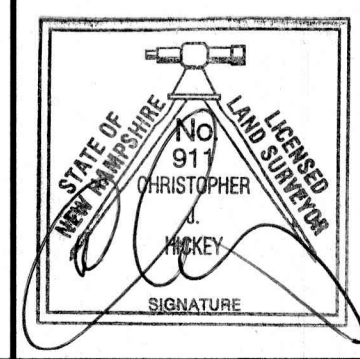
CERTIFIED WETLAND SCIENTIST \_\_\_\_\_ DATE \_\_\_\_\_

**CERTIFICATION:**

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR THOSE UNDER MY DIRECT SUPERVISION. FURTHER, THAT THIS PLAN IS BASED ON AN ACTUAL FIELD SURVEY MADE BY THIS OFFICE DURING SEPTEMBER OF 2025. SAID SURVEY HAS A RELATIVE ERROR OF CLOSURE OF ONE PART IN TEN THOUSAND (1:10,000) OR BETTER.

*Christopher*  
LICENSED LAND SURVEYOR

10/9/25  
DATE



REVISIONS			
No.	DATE	DESCRIPTION	BY

DATE: OCTOBER 9, 2025 SCALE: 1" = 50'  
PROJECT NO: 25-0805-2 SHEET 1 OF 1