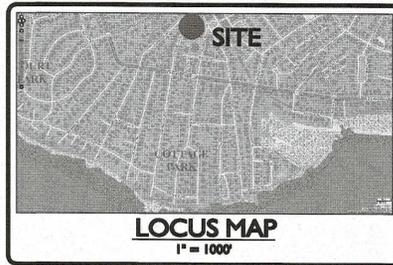


# SITE REDEVELOPMENT PLANS FOR SOMERSET AVENUE RESIDENCES #10-26 SOMERSET AVENUE WINTHROP, MA



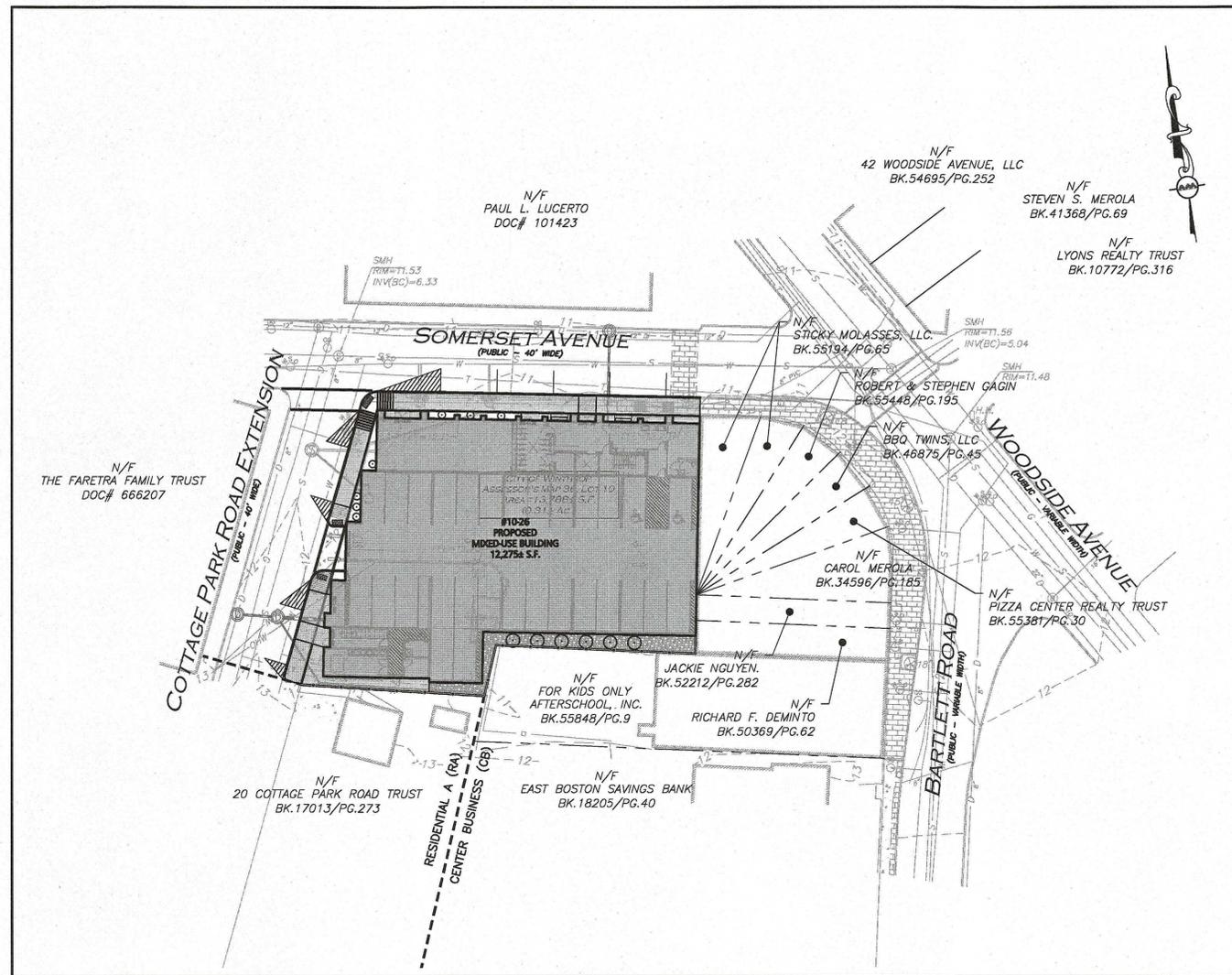
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ENVELO PROPERTIES, LLC.  
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LIST OF DRAWINGS			
CIVIL			
DRAWING TITLE	SHEET NO.	ISSUED	REVISED
ABBREVIATIONS & NOTES	C-001 & C-002	02-13-2019	03-07-2019
EXISTING CONDITIONS	I	06-30-2017	-
DEMOLITION & EROSION CONTROL PLAN	C-101	02-13-2019	03-07-2019
LAYOUT & MATERIALS PLAN	C-102	02-13-2019	03-07-2019
GRADING & DRAINAGE PLAN	C-103	02-13-2019	03-07-2019
UTILITIES PLAN	C-104	02-13-2019	03-07-2019
CIVIL DETAILS	C-501 - C-504	02-13-2019	03-07-2019

PREPARED BY:



**ALLEN & MAJOR  
ASSOCIATES, INC.**

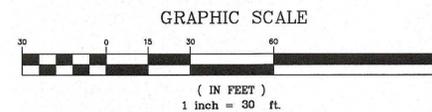
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PROFESSIONAL ENGINEER FOR  
ALLEN & MAJOR ASSOCIATES, INC.

ISSUED FOR APPROVAL: FEBRUARY 13, 2019  
REVISED PER CITY COMMENTS: MARCH 7, 2019

N:\PROJECTS\2554-01\CIVIL\DRAWINGS\CURRENT\C-2554-01\_COVER.DWG

**GENERAL NOTES:**

- FOR EXISTING CONDITIONS SURVEY, SEE PLAN DATED JUNE 30, 2017 ENTITLED "EXISTING CONDITIONS", AS PREPARED BY ALLEN & MAJOR ASSOCIATES, INC.
- THE PROJECT SITE IS LOCATED IN THE CB-CENTER BUSINESS DISTRICT.
- THE PARCEL AT 10-16 SOMERSET AVENUE IS 0.31± AC. AND IS IDENTIFIED AS MAP 36, LOT 10.
- THIS PROJECT WILL BE SERVED BY PUBLIC WATER AND SEWER, NATURAL GAS, TELEPHONE, CABLE AND ELECTRIC. ALL UTILITY LINES WILL BE INSTALLED UNDERGROUND UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AND STRUCTURES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THIS INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE LOCATION OF ALL UNDERGROUND UTILITIES AND STRUCTURES SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY, ANY GOVERNING PERMITTING AUTHORITY, AND "DISSAFE" AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST EXACT FIELD LOCATION OF UTILITIES AND THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY UTILITIES INTERFERING WITH THE PROPOSED CONSTRUCTION AND APPROPRIATE REMEDIAL ACTION TAKEN BEFORE PROCEEDING WITH THE WORK. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS AT NO ADDITIONAL COST.
- ALL MAIN BUILDING ENTRANCES AND WALKS SHALL BE ACCESSIBLE PER FEDERAL ADA & MA AAB REGULATIONS.
- ALL SITE WORK DONE FOR THIS PROJECT SHALL BE IN STRICT ACCORDANCE WITH THE SITE PLANS AND SITE WORK SPECIFICATIONS FOR CONSTRUCTION.
- ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTIES DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED AND RESTORED BY THE CONTRACTOR AT THEIR OWN EXPENSE.
- ALL PROPERTY MARKERS AND STREET LINE MONUMENTS SHALL BE PROPERLY PROTECTED DURING CONSTRUCTION. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED AND RESTORED BY A SURVEYOR REGISTERED IN THE STATE OF MASSACHUSETTS AT THE CONTRACTOR'S EXPENSE.
- ALL APPLICABLE PERMITS AND AN APPROVED SET OF PLANS SHALL BE AVAILABLE AT THE CONSTRUCTION SITE.
- THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING A PRECONSTRUCTION MEETING WITH THE DPW/ENGINEERING DEPARTMENT AND ANY OTHER APPROPRIATE TOWN DEPARTMENTS, THE APPROPRIATE UTILITY COMPANIES, THE OWNER AND OWNER'S REPRESENTATIVE. THE MEETING SHALL TAKE PLACE PRIOR TO THE START OF CONSTRUCTION AND THE CONTRACTOR MUST PROVIDE 48 HOURS NOTICE TO ALL ATTENDEES PRIOR TO THE START OF THE MEETING.
- APPROPRIATE WARNING SIGNS, MARKERS, BARRICADES AND/OR FLAG MEN SHALL BE PROVIDED TO REGULATE TRAFFIC. CONSTRUCTION TRAFFIC CONTROLS SHALL BE IMPLEMENTED AND OPERATED ACCORDING TO THE MASS DEPARTMENT OF TRANSPORTATION, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE LOCAL AUTHORITY.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ADDITIONAL BENCHMARK INFORMATION IF REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING BENCHMARKS. IF IT IS NECESSARY TO RELOCATE A BENCHMARK, IT SHALL BE RELOCATED BY A MASSACHUSETTS PROFESSIONAL LAND SURVEYOR AND DONE SO AT THE CONTRACTOR'S EXPENSE.
- ALL BUILDING DIMENSIONS ARE MEASURED TO THE OUTSIDE FACE OF THE BUILDING.
- ALL RADII ARE 3 FEET UNLESS OTHERWISE NOTED.
- ALL PARKING LOT AND AISLE DIMENSIONS ARE TAKEN FROM THE FACE OF CURB AND INDICATE EDGE OF PAVEMENT.
- CONSTRUCTION DURING WET WEATHER OR WINTER CONDITIONS IS TO BE ANTICIPATED AND PROVISIONS TO ADEQUATELY ADDRESS THESE CONDITIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO ADDITIONAL COST.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ANY PERMITS AND/OR CONNECTION FEES REQUIRED TO CARRY OUT THE WORK INCLUDING BUT NOT LIMITED TO DEMOLITION.
- DISPOSAL OF ALL DEMOLISHED MATERIALS INCLUDING EXISTING MISC. CONSTRUCTION DEBRIS IS THE RESPONSIBILITY OF THE CONTRACTOR AND MUST BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL MUNICIPAL REQUIREMENTS AT NO ADDITIONAL COST.
- ALL DISTURBED AREAS NOT NOTED TO RECEIVE OTHER TREATMENT ARE TO RECEIVE SIX INCHES (6") MINIMUM OF TOPSOIL & SEED, AND BE MAINTAINED UNTIL ESTABLISHED & ACCEPTED.
- EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE PROTECTED, ABANDONED, REMOVED OR RELOCATED AS NECESSARY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, & POLES, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH THE TOWN OF WINTHROP'S GOVERNING AUTHORITY'S SPECIFICATIONS AND SHALL BE APPROVED BY SUCH.
- THE CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES TO DETERMINE EXACT POINT OF SERVICE CONNECTION AND DISCONNECTION AT EXISTING UTILITY.
- ALL ELEVATIONS SHOWN ARE IN REFERENCE TO THE BENCHMARK AND MUST BE VERIFIED BY THE GENERAL CONTRACTOR AT GROUND BREAKING.
- EXISTING AND PROPOSED GAS SERVICE LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL CONFIRM WITH THE GAS COMPANY THAT THE GAS LINE INSTALLATION & DISCONNECTION SHALL BE BY THE LOCAL GAS COMPANY. THE CONTRACTOR SHALL GIVE THE GAS COMPANY ADVANCE NOTICE OF WHEN THE GAS LINE CAN BE INSTALLED.

**GENERAL NOTES (CONTINUED):**

- EXISTING & PROPOSED ELECTRIC AND COMMUNICATIONS (TELEPHONE AND CABLE) SYSTEMS LOCATIONS ARE APPROXIMATE ONLY AND SHALL BE COORDINATED AND SCHEDULED WITH THE APPROPRIATE UTILITY COMPANY SERVICING THE PROJECT SITE.
- CONTRACTOR IS RESPONSIBLE FOR DIGGING TEST HOLES AND VERIFYING ANY EXISTING UTILITY OR STRUCTURE PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY THAT BASED ON EXACT LOCATION OF EXISTING UTILITIES, THERE ARE NO CONFLICTS BETWEEN THEM AND THE PROPOSED UTILITIES.
- THE CONTRACTOR SHALL ADHERE TO ALL PERMIT CONDITIONS PROVIDED BY ALL GOVERNING AGENCIES AT NO ADDITIONAL COSTS. THIS INCLUDES BUT IS NOT LIMITED TO BUILDING PERMITS, DEMOLITION PERMITS, PLUMBING, GAS, AND ELECTRICAL PERMITS. PERMITS FROM THE PLANNING BOARD OR TOWN COUNCIL AND AN ORDER OF CONDITIONS FROM THE WINTHROP ZONING BOARD OF APPEALS CONSERVATION COMMISSION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY DISPOSE OF AND ABATE ALL BUILDING MATERIALS OR HAZARDOUS MATERIALS ONSITE IN ACCORDANCE WITH ALL STATE, FEDERAL, AND LOCAL LAWS AND REGULATIONS AT NO ADDITIONAL COST TO THE OWNER.
- DURING EXCAVATION, ANY EXISTING EARTH CUT MATERIALS THAT DOES NOT MEET THE ORDINARY FILL SPECIFICATIONS OR LOAM SPECIFICATIONS AND CANNOT BE REUSED SHALL BE REMOVED OFFSITE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNERS. MATERIAL WHICH DOES NOT MEET THE SPECIFICATION INCLUDES ALL BOULDERS, ROCKS, CONSTRUCTION DEBRIS, AND MISC. MATERIAL. PRIOR TO REUSE, CONTRACTOR TO PROVIDE TESTING REPORT OF SIEVE ANALYSIS TO ENGINEER FOR APPROVAL. CONTRACTOR CAN AMEND MATERIALS AND CONTINUE TO RETEST AS NECESSARY AT NO ADDITIONAL COST TO OWNER. AFTER AMENDING IF MATERIAL STILL DOES NOT MEET THE SPECIFICATIONS IT IS TO BE REMOVED FROM SITE AT NO ADDITIONAL COST TO THE OWNER AND IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
- ANY PROPOSED SIGNAGE SHALL BE APPROVED BY SEPARATE APPLICATION TO THE DIRECTOR OF INSPECTION SERVICES AND/OR THE APPROPRIATE MUNICIPAL AUTHORITY INCLUDING BUT NOT LIMITED TO THE ZONING BOARD OF APPEALS AND TOWN COUNCIL. ALL PROPOSED SIGNAGE MUST MEET THE REQUIREMENTS OF THE TOWN OF WINTHROP ZONING CODE.
- ALL MATERIALS, WITHIN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM WITH THE TOWN STANDARDS AS SET FORTH IN THE TOWN OF WINTHROP DEPARTMENT OF PUBLIC WORKS STREET OPENING/UTILITY CONNECTIONS RULES AND REGULATIONS.

**GRADING & DRAINAGE NOTES:**

- EXISTING PAVEMENT SHALL BE SAW-CUT AND PAVEMENT JOINT SHALL BE INSTALLED WHERE NECESSARY TO ENSURE A SMOOTH CONTINUOUS GRADE.
- THE ARCHITECTURAL PLANS SHALL BE REFERRED TO IN ORDER TO DETERMINE THE EXACT LOCATIONS OF VESTIBULE, SLOPED PAVING, EXIT PORCHES, HANDICAPPED RAMPS, TRUCK DOCKS, COMPACTOR PAD, ROOF DRAIN LATERALS AND PRECISE BUILDING DIMENSIONS.
- ALL GRADING OPERATIONS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY COMPANIES.
- IN LANDSCAPED AREAS THE TOP ELEVATION OF MANHOLES SHALL MATCH THE FINISH GRADE OF THE TOPSOIL. IN PAVED AREAS THE TOP ELEVATIONS OF MANHOLES SHALL MATCH FINISH GRADE.
- ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE STABILIZED AS SOON AS POSSIBLE UPON COMPLETION OF CONSTRUCTION WORK IN THE AREA.
- TEMPORARY STRAW BALE PROTECTION AND/OR SILT SACK SHALL BE INSTALLED AND MAINTAINED AT EXISTING DRAINAGE STRUCTURES DURING CONSTRUCTION, TO PREVENT SEDIMENT LADEN RUNOFF FROM ENTERING THE DRAINAGE SYSTEM.
- CONTRACTOR IS RESPONSIBLE FOR DEMOLITION OF EXISTING STRUCTURES INCLUDING REMOVAL OF ANY EXISTING UTILITIES SERVING THE STRUCTURE PER DEMOLITION PLAN.
- ALL CATCH BASINS, MANHOLES, INFILTRATION SYSTEM, AND WATER QUALITY STRUCTURES ARE TO BE CLEANED OUT PRIOR TO FINAL APPROVAL TO REMOVE ALL CONSTRUCTION SILT AND DEBRIS.
- IF ANY EXISTING UTILITY STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER AT NO ADDITIONAL COST.
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- ALL STORM DRAIN MANHOLES SHALL HAVE TRAFFIC BEARING RING & COVERS & SHALL BE LABELED "DRAIN".
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS & CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED AREAS.
- ALL NON-IMPERVIOUS AREAS DISTURBED BY GRADING OPERATION SHALL RECEIVE SIX INCHES (6") OF TOPSOIL. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH LANDSCAPE & CIVIL SPECIFICATIONS & DRAWINGS UNTIL A HEALTHY STAND OF GRASS IS OBTAINED.
- CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES STEEPER THAN 3H:1V.
- ALL DRAINAGE SYSTEM COMPONENTS SHALL CONFORM TO LOCAL REQUIREMENTS.
- THE CONTRACTOR WILL NOTIFY THE DESIGN ENGINEER 48 HOURS PRIOR TO THE INSTALLATION OF ALL STORMWATER BMPs. THE INSTALLATION OF THE BMPs WILL BE INSPECTED BY THE DESIGN ENGINEERS AND CERTIFIED THAT THEY COMPLY WITH THE DESIGN PLANS. CERTIFICATION SHALL INCLUDE PHOTOS, FIELD BOOK ENTRIES AND ENGINEER'S DAILY REPORTS.

**UTILITY NOTES:**

- THE LATEST STANDARDS OF THE TOWN OF WINTHROP SHALL BE FOLLOWED WHEN INSTALLING ANY SANITARY SEWER AND STORM DRAIN WORK. BOTH SEWER AND STORM DRAIN WORK WILL BE INSPECTED BY TOWN OF WINTHROP PERSONNEL AND ALL COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE LATEST STANDARDS OF THE TOWN OF WINTHROP SHALL BE FOLLOWED WHEN INSTALLING ANY WATER LINE WORK. WATER LINE WORK WILL BE INSPECTED BY TOWN OF WINTHROP PERSONNEL AND ALL COSTS SHALL INCLUDE PRESSURE TESTING, DISINFECTING, AND FLUSHING OF LINES. INSPECTION COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AND REMOVAL OF ALL NECESSARY DISINFECTING AND FLUSHING TAPS AS DIRECTED BY THE TOWN.
- THE CONTRACTOR SHALL REFER TO ARCHITECTURAL & PLUMBING DRAWINGS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL ROOF DRAIN LATERALS AND UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRIC, TELEPHONE, AND NATURAL GAS SERVICE. THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND COORDINATE WITH THE PROPER AGENCY THE LOCATION AND SCHEDULING OF CONNECTIONS WITH THEIR FACILITIES.
- WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE UTILITY SHALL BE ACCURATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
- ABANDONED EXISTING UTILITIES AND UTILITIES TO BE ABANDONED SHALL EITHER BE ABANDONED IN PLACE AS NOTED OR SHALL BE REMOVED AND DISPOSED OF AS SPECIFIED. ANY UTILITIES 4" OR LARGER ARE TO BE REMOVED. ALL UTILITIES SCHEDULED FOR ABANDONMENT OR REMOVAL AND DISPOSAL MUST BE COORDINATED BY THE CONTRACTOR WITH THE RESPECTIVE UTILITY OWNER. WHEN ABANDONED UTILITIES ARE TO BE LEFT IN PLACE, PLUG OR CAP THE ENDS OF THE CONDUITS AND PIPES. REMOVE ABANDONED UTILITY MANHOLES, JUNCTION BOXES AND SIMILAR STRUCTURES TO A MINIMUM DEPTH OF 4 FEET BELOW FINISHED GRADE AND PUNCTURE OR BREAK THE BOTTOM SLABS OF MANHOLES AND SIMILAR STRUCTURE TO ALLOW DRAINAGE. BACKFILL AND COMPACT EXCAVATIONS RESULTING FROM REMOVAL OF UTILITY FACILITIES, AS REQUIRED TO RESTORE THE ORIGINAL GRADE.
- THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE ALTERATION AND ADJUSTMENTS OF NATURAL GAS, ELECTRIC, TELEPHONE AND ANY OTHER UTILITY BY THE UTILITY OWNER.
- THE CONTRACTOR SHALL USE THE FOLLOWING PIPE MATERIALS:
  - SEWER - PVC (POLYVINYL CHLORIDE), SDR 35
  - C.I. (CAST IRON)
  - DRAIN - HDPE (HIGH DENSITY CORRUGATED POLYETHYLENE PIPE WITH SMOOTH INNER WALL), ASTM D2321 (UNLESS OTHERWISE SPECIFIED ON PLAN)
  - DRAIN - RCP CLASS III (REINFORCED CONCRETE PIPE, WHERE SPECIFIED ON PLAN)
  - WATER - C.L.D.I. (CEMENT LINED DUCTILE IRON)
- REFER TO DEMOLITION PLAN FOR EXISTING DRAINAGE STRUCTURES TO BE REMOVED AND UTILITY ABANDONMENT.
- BEFORE UTILITY WORK BEGINS, THE CONTRACTOR WILL COORDINATE WITH THE TOWN OF WINTHROP THE APPROPRIATE PERMIT AND INSPECTION FEES.
- ALL WATER GATES TO PROPOSED HYDRANTS ARE 6" DIAMETER UNLESS NOTED.
- A MINIMUM OF TEN FEET (10') HORIZONTAL CLEARANCE SHALL BE MAINTAINED BETWEEN WATER MAINS AND SANITARY SEWER MAINS. WHENEVER CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET (10') TO A WATER MAIN, THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH AND MUST BE AT LEAST 18 INCHES HIGHER THAN THE SEWER SERVICE.
- ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
- CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITY'S INSPECTORS 72 HOURS BEFORE CONNECTING TO ANY EXISTING LINE.
- MINIMUM TRENCH WIDTH SHALL BE 2 FEET.
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 5'-0" COVER ON ALL WATERLINES AND A MAXIMUM OF 8'-0" COVER.
- IN THE EVENT OF A VERTICAL CONFLICT BETWEEN WATERLINES, SANITARY LINES, STORM LINES AND GAS LINES (EXISTING AND PROPOSED), THE SANITARY LINE SHALL BE DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT LEAST 10 FEET ON BOTH SIDES OF CROSSING. THE WATERLINE SHALL HAVE MECHANICAL JOINTS WITH APPROPRIATE THRUST BLOCKING AS REQUIRED TO PROVIDE A MINIMUM OF 18" VERTICAL CLEARANCE AND MEETING 10' HORIZONTAL CLEARANCE CANNOT BE MET, THE WATER MUST BE ENCASED IN CONCRETE TO MEET THE REQUIREMENTS OF ANSI A21.10 OR ANSI 21.11 (AWWA C-151) (CLASS 50).
- ALL CONCRETE FOR ENCASEMENTS SHALL HAVE A MINIMUM 28 DAY COMPRESSION STRENGTH OF 3000 P.S.I.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE SPECIFICATIONS OF THE LOCAL AUTHORITIES WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER, SEWER, GAS AND ELECTRICAL AND TELECOMMUNICATIONS LINES.
- ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE.
- ALL HYDRANTS SHALL MEET LOCAL MUNICIPAL SPECIFICATION REQUIREMENTS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE TOWN OF WINTHROP REQUIREMENTS.
- DOMESTIC WATER SERVICES SHALL BE INSTALLED WITH APPROPRIATELY SIZED GATE, BOX, AND TEE FITTINGS.
- ALL WATER MAIN APPURTENANCES, MATERIALS, METHODS OF INSTALLATION AND TESTING REQUIREMENTS SHALL MEET OR EXCEED THE TOWN OF WINTHROP REQUIREMENTS.
- PRESSURE AND LEAKAGE TEST, DISINFECTATION AND FLUSHING SHALL BE IN ACCORDANCE WITH ALL LOCAL AND MUNICIPAL STANDARDS AND REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS IN CONNECTION WITH THE UTILITY TESTS, FLUSHING AND INSPECTIONS AS REQUIRED BY THE LOCAL MUNICIPALITY.
- SEWER PIPE BEDDING MATERIAL SHALL BE AS SPECIFIED ON THE DRAWINGS. IF LOCAL OR STATE AUTHORITIES REQUIRE DIFFERENT BEDDING OR BACKFILL MATERIAL, THEN THE MORE STRINGENT SHALL APPLY.
- DRAWINGS DO NOT NECESSARILY SHOW ALL EXISTING UTILITIES.

**STORMWATER OPERATION & MANAGEMENT:**

THE STORMWATER MANAGEMENT SYSTEM (SMS) FOR THIS PROJECT IS OWNED BY THE APPLICANT. THEY SHALL BE LEGALLY RESPONSIBLE FOR LONG-TERM OPERATION AND MAINTENANCE FOR THIS SMS AS OUTLINED IN THE OPERATION AND MAINTENANCE (O&M) PLAN. SHOULD OWNERSHIP OF THE SMS CHANGE THE SUCCEEDING OWNER WILL BE PRESENTED WITH THE O&M PLAN AND SUPPORTING ATTACHMENTS AT OR BEFORE LEGAL CONVEYANCE OF OWNERSHIP.



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
1	2019-03-07	REVISED PER CITY COMMENTS

APPLICANT/OWNER:  
**ENVELO PROPERTIES, LLC.**  
 274 MADISON AVENUE, SUITE 1801  
 NEW YORK, NY 10016

PROJECT:  
**10-26 SOMERSET STREET**  
 WINTHROP, MA

PROJECT NO.	2554-01	DATE:	02-13-2019
SCALE:		DWG. NAME:	C2554-01
DESIGNED BY:	SJL	CHECKED BY:	CMQ

PREPARED BY:

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DRAWING TITLE:	SHEET No.
<b>ABBREVIATIONS &amp; NOTES</b>	<b>C-001</b>

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**EROSION & SEDIMENTATION CONTROL NOTES:**

- EROSION CONTROL SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE. ANY MODIFICATIONS TO SILT CONTROLS SHOWN ON THE APPROVED PLANS AS A RESULT OF ACTUAL FIELD CONDITIONS OR CONSTRUCTION PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH B.M.P. (BEST MANAGEMENT PRACTICES) PER THE E.P.A. 2008 "CONSTRUCTION GENERAL PERMIT" MANUAL AND MASSACHUSETTS 2003 EROSION & SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS. ANY SUCH MODIFICATIONS FROM THE ABOVE MANUALS SHALL BE INSTALLED AS APPROVED BY THE ENGINEER OR THE TOWN OF WINTHROP.
- AREAS OF EXPOSED SOIL UNDERGOING CONSTRUCTION THAT WILL NOT BE COVERED AND OR FINISHED GRADED SHALL BE STABILIZED AS SOON AS PRACTICABLE BUT IN NO CASE MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY (UNLESS TOWN HAS STRICTER REQUIREMENTS WHICH SHALL BE FOLLOWED) IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. TEMPORARY EROSION CONTROL MEASURES SHALL INCLUDE EROSION CONTROL MESH, NETTING OR MULCH AS DIRECTED BY THE OWNER'S REPRESENTATIVE AND SHOWN ON THE DESIGN PLANS. IF MULCH IS USED, STRAW MULCH SHALL BE APPLIED AT THE RATE OF 4 BALES PER 1,000 SQUARE FEET. APPLICATION AREA SHALL BE SUFFICIENTLY COVERED WITH MULCH TO AVOID ANY VISIBLE SOIL EXPOSURE. MULCH SHALL BE KEPT MOIST TO AVOID LOSS DUE TO WIND. MULCH AND NETTING SHALL BE APPLIED IN THE BASE OF ALL GRASSED WATERWAYS, IN VEGETATED SLOPES WHICH EXCEED 15% AND DISTURBED AREAS WITHIN 100 FEET OF WETLANDS OR STREAMS.
- IF DISTURBED AREAS DO NOT RECEIVE FINAL SEEDING BY OCTOBER 1ST OF THE CONSTRUCTION YEAR, THEN ALL DISTURBED AREAS SHALL BE SEEDDED WITH A WINTER COVER CROP AT THE RATE OF 3 LBS PER 1,000 SQUARE FEET. WINTER SEEDING SHALL BE COVERED WITH EROSION CONTROL MESH (MULCH AND NETTING). HEAVY GRADE MATS SHALL BE USED IN THE BASE OF ALL GRASSED WATERWAYS ON VEGETATED SLOPES IN EXCESS OF 15%, AND ANY DISTURBED AREAS WITHIN 100 FEET OF WETLANDS OR STREAMS. MULCH AND NETTING SHALL ALSO BE PROVIDED FOR ADDITIONAL WINTER PROTECTION.
- ALL TOPSOIL SHALL BE COLLECTED, STOCKPILED, SEEDDED WITH RYE AT 3LBS PER 1,000 SQUARE FOOT AND MULCHED, AND REUSED AS REQUIRED. SILT FENCING SHALL BE PLACED DOWN GRADIENT FROM STOCKPILED LOAM. LOAM SHALL BE STOCKPILED AT LOCATIONS DESIGNATED BY THE OWNER AND ENGINEER.
- ALL FILTER BARRIERS, SILT SACKS, AND EROSION CONTROL BERMS SHALL BE INSTALLED ACCORDING TO THE EROSION CONTROL PLAN. THESE SHALL BE MAINTAINED DURING DEVELOPMENT TO REMOVE SEDIMENT FROM RUNOFF WATER. ALL THE FILTER BARRIERS AND EROSION CONTROL BERMS SHALL BE INSPECTED AFTER ANY RAINFALL OR RUNOFF EVENT, MAINTAINED AND CLEANED UNTIL ALL AREAS HAVE AT LEAST 85-90% VIGOROUS PERENNIAL COVER OF GRASSES.
- ADJACENT ROADS SHALL BE PERIODICALLY SWEEPED OR WASHED TO AVOID TRACKING MUD, DUST OR DEBRIS FROM THE CONSTRUCTION AREA AS OFTEN AS NECESSARY (WHICH COULD BE ON A DAILY BASIS) TO REMOVE ANY SEDIMENT AT NO ADDITIONAL COST TO THE OWNER. A WATERING TRUCK WILL BE USED TO PERIODICALLY SPRINKLE CONSTRUCTION AREAS IN ORDER TO KEEP THE LEVEL OF DUST TO A MINIMUM DURING THE DRY MONTHS AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL USE EXTREME CAUTION TO AVOID ALLOWING SEDIMENTS TO ENTER THE STORM DRAIN SYSTEM DURING CONSTRUCTION. BOTH EXISTING AND PROPOSED CATCH BASIN INLETS SHALL BE PROTECTED DURING CONSTRUCTION BY THE USE OF SILT SACKS AND STRAW BALE BARRIERS AROUND EACH INLET AS NOTED ON THE PLANS. INLET PROTECTION MAY BE REMOVED ONLY AFTER FINISHED AREAS ARE PAVED AND THE VEGETATED SLOPES ARE ESTABLISHED WITH AT LEAST 85-90% OF VIGOROUS PERENNIAL GROWTH.
- AS APPLICABLE, EROSION CONTROL MESH SHALL BE APPLIED IN ACCORDANCE WITH THE PLANS OVER ALL FINISHED SEEDDED AREAS AS SPECIFIED ON THE DESIGN PLANS.
- AT A MINIMUM, ALL STRAW BALES, SILT FENCE AND FILTER FABRIC SHALL REMAIN IN PLACE UNTIL SEEDLINGS OR PLANTINGS HAVE BECOME 85-90% ESTABLISHED. THE TOWN OF WINTHROP OR THE ENGINEER MUST APPROVE THE REMOVAL OR RELOCATION OF ANY OF THE STRAW BALES AND FILTER FABRIC. ONCE THE STRAW BALES AND SILT FENCE IS REMOVED THE AREAS ARE TO BE LOAM AND SEEDDED TO ACHIEVE FULL STABILIZATION.
- AT THE OWNER'S DISCRETION ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED TO MAINTAIN STABILITY OF EARTHWORKS AND FINISHED GRADED AREAS. THE CONTRACTOR, AT HIS EXPENSE, WILL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ADDITIONAL MEASURES AS SPECIFIED BY THE OWNER. THIS INCLUDES BUT IS NOT LIMITED TO REQUESTS BY MA DEP, THE ENGINEER AND THE MUNICIPALITY, AS AUTHORIZED BY THE OWNER. FAILURE TO COMPLY WITH THE OWNER'S DIRECTIONS WILL RESULT IN DISCONTINUATION OF CONSTRUCTION ACTIVITIES.
- INSPECTIONS AND MONITORING MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. WEEKLY INSPECTIONS SHALL BE HELD THROUGH THE DURATION OF CONSTRUCTION ACTIVITY. WEEKLY INSPECTION REPORTS SHALL BE MAINTAINED BY THE CONTRACTOR AND LOCATED IN THE CONTRACTORS FIELD OFFICE ONSITE. IN ADDITION TO THE NORMAL WEEKLY INSPECTIONS, THE CONTRACTOR SHALL PERFORM AN INSPECTION OF ALL EROSION CONTROL MEASURES AFTER EACH RAINFALL OR RUNOFF EVENT, AND PERFORM THE NECESSARY REPAIRS. THE INSPECTIONS SHALL INCLUDE BUT NOT BE LIMITED TO THE SITE'S DOWN STREAM DISCHARGE POINTS.
- IF ANY EVIDENCE OF SEDIMENTATION IS OBSERVED AT THE STORMWATER MANAGEMENT AREA INLETS, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, PROVIDE A PLAN TO THE ENGINEER TO REMOVE ANY ACCUMULATED SEDIMENT IN THESE AREAS. THE CONTRACTOR SHALL ALSO IMMEDIATELY PROVIDE ADDITIONAL ON SITE EROSION AND SEDIMENTATION CONTROL MEASURES TO PREVENT FURTHER DEGRADATION OF THE AREA.
- FOLLOWING THE TEMPORARY OR FINAL SEEDINGS, THE CONTRACTOR SHALL INSPECT THE WORK AREA SEMI-MONTHLY TO ENSURE THE AREAS HAVE A MINIMUM OF 85-90% VEGETATED VIGOROUS GROWTH. RE-SEEDING SHALL BE CARRIED OUT BY THE CONTRACTOR WITH FOLLOW UP INSPECTIONS IN THE EVENT OF ANY FAILURES UNTIL VEGETATION IS ADEQUATELY ESTABLISHED.
- CONTRACTOR & ALL SITE SUBCONTRACTORS SHALL BE FAMILIAR WITH & FOLLOW ALL APPROVED PERMITS AND CONDITIONS. CONTRACTOR SHALL MAINTAIN A COPY OF ALL APPROVED PERMITS ONSITE, INCLUDING THE ORDER OF CONDITIONS FROM THE WINTHROP ZONING BOARD OF APPEALS. ALL CONDITIONS & RECOMMENDATIONS WITHIN THE APPROVED PERMITS SHALL BE COMPLETED.
- ALL EROSION MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE TO MAINTAIN SEDIMENT ON SITE. ANY MODIFICATIONS SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER OR THE TOWN OF WINTHROP.
- EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED DURING CONSTRUCTION, AND SHALL REMAIN IN PLACE UNTIL ALL SITE WORK IS COMPLETE AND GROUND COVER IS ESTABLISHED.
- TOP OF STOCKPILES SHALL BE COVERED IN SUCH MANNER THAT STORMWATER DOES NOT INFILTRATE THE MATERIALS AND THEREBY RENDER THE SAME UNSUITABLE FOR FILL USE.

**EROSION & SEDIMENTATION CONTROL NOTES (CONT.):**

- ALL DISTURBED OR EXPOSED AREAS SUBJECT TO EROSION SHALL BE STABILIZED WITH MULCH OR SEEDED FOR TEMPORARY VEGETATIVE COVER. NO AREA, SUBJECT TO EROSION SHALL BE LEFT DISTURBED AND UNSTABILIZED FOR PERIODS LONGER THAN IS ABSOLUTELY NECESSARY TO CARRY OUT THAT PORTION OF THE CONSTRUCTION WORK OR SIX MONTHS AFTER SOIL HAS BEEN DISTURBED WHICHEVER IS LESS.
- CULVERT/PIPE INLETS AND OUTFALLS SHALL BE PROTECTED BY STRAW BALE FILTERS AND STONE CHECK DAMS UNTIL DISTURBED AREAS ARE PERMANENTLY STABILIZED.
- STRAW BALE DIKES SHALL BE CONSTRUCTED AT ALL EXISTING & PROPOSED CATCH BASINS. NO SEDIMENTATION SHALL ENTER THE ON-SITE OR OFF-SITE DRAINAGE SYSTEMS AT ANY TIME.
- ALL EROSION CONTROL MEASURES SHALL BE ROUTINELY INSPECTED, CLEANED AND REPAIRED OR REPLACED AS NECESSARY THROUGHOUT ALL PHASES OF CONSTRUCTION. IN ADDITION, INSPECTION SHALL TAKE PLACE WEEKLY AND BEFORE AND AFTER EACH RAINFALL EVENT.
- ALL PROPOSED SLOPES STEEPER THAN 3:1 SHALL BE STABILIZED WITH JUTE MESH AND PROTECTED FROM EROSION UNTIL WORK IS COMPLETE AND GROUND COVER IS ESTABLISHED.
- THE CONTRACTOR SHALL KEEP ON SITE AT ALL TIMES ADDITIONAL STRAW BALES AND EXTRA SILTATION FENCING FOR INSTALLATION AT THE DIRECTION OF THE ENGINEER OR THE TOWN ENGINEER TO MITIGATE ANY EMERGENCY CONDITION.
- OWNER AND CONTRACTOR ARE RESPONSIBLE FOR COMPLIANCE WITH THE CONSTRUCTION GENERAL PERMIT NOI, WEEKLY SWPPP INSPECTION REPORTS TO BE PERFORMED BY CONTRACTOR. COPIES OF ALL SWPPP INSPECTION REPORTS SHALL BE PROVIDED TO THE TOWN OF WINTHROP, EPA, DEP, OR ANY OTHER AUTHORITY REQUESTING WITHIN 3 DAYS OF EACH INSPECTION.
- APPLICABLE WORK AND MATERIALS SHALL COMPLY WITH ALL TOWN OF WINTHROP, MA DEP, EPA CONSTRUCTION GENERAL PERMIT STANDARDS. ALL CONSTRUCTION SHALL CONFORM TO THE APPLICABLE SITE PLAN REGULATIONS FROM THE TOWN OF WINTHROP AND USDA SOIL CONSERVATION SERVICE VEGETATIVE PRACTICES IN SITE DEVELOPMENT.
- A WATERING TRUCK SHALL BE USED TO PERIODICALLY SPRINKLE CONSTRUCTION AREAS IN ORDER TO KEEP THE LEVEL OF DUST TO A MINIMUM DURING THE DRY MONTHS AND AS REQUIRED.
- IF DE-WATERING IS NECESSARY IT SHALL ONLY BE COMPLETED AS FOLLOWS: THE DISCHARGE SHALL BE STOPPED IMMEDIATELY IF THE RECEIVING AREA SHOWS ANY SIGN OF INSTABILITY OR EROSION. ALL CHANNELS, SWALES, AND DITCHES DUG FOR DISCHARGING WATER FROM THE EXCAVATED AREA SHALL BE STABLE PRIOR TO DIRECTING DISCHARGE TO THEM. IF A CONSTRUCTION EQUIPMENT BUCKET IS USED, IT SHALL EMPTY THE MATERIAL TO A STABLE AREA. NO DE-WATERING SHALL OCCUR DURING PERIODS OF INTENSE, HEAVY RAIN. FLOW TO THE SEDIMENT REMOVAL STRUCTURE SHALL NOT EXCEED THE STRUCTURES CAPACITY TO SETTLE AND FILTER FLOW OR IS VOLUME CAPACITY. WHENEVER POSSIBLE, THE DISCHARGE FROM THE SEDIMENT REMOVAL STRUCTURE SHALL DRAIN TO A WELL-VEGETATED BUFFER BY SHEET FLOW WHILE MAXIMIZING THE DISTANCE TO THE NEAREST WATER RESOURCE AND MINIMIZING THE SLOPE OF THE BUFFER AREA. THERE SHALL BE NO DIRECT DISCHARGE TO EXISTING WETLANDS OR STREAMS. ALL DISCHARGE SHALL BE IN COMPLIANCE WITH STATE, LOCAL, AND FEDERAL REQUIREMENTS.
- INITIATE STABILIZATION OF EXPOSED AREAS IMMEDIATELY IF CONSTRUCTION WORK TEMPORARILY OR PERMANENTLY CEASES.
- ALL DISCHARGES FROM POLLUTION SOURCES ARE PROHIBITED ONSITE SUCH AS FUELS, WASTEWATER FROM WASH OUT OF CONCRETE, WASTEWATER FROM CLEAN OUT OF PAINTS, FORM RELEASE OILS, SOLVENTS, ADHESIVES, CURING COMPOUNDS, POLLUTANTS USED FOR MAINTENANCE OF VEHICLES AND EQUIPMENT, SOAPS & SOLVENTS, TOXIC OR HAZARDOUS SUBSTANCES, CHEMICALS AND OILS. IF A POLLUTANT IS DISCHARGED IT NEEDS TO BE IMMEDIATELY CLEANED UP BY REMOVING THE CHEMICAL AND AFFECTED SOIL OR AREA OF SPILL FROM THE SITE IN ACCORDANCE WITH BOTH THE MANUFACTURER RECOMMENDATIONS, FEDERAL, STATE, AND LOCAL REQUIREMENTS. DO NOT HOSE DOWN AND SPREAD SPILLED ITEM. ALL CHEMICALS USED ON THE SITE SHALL BE IN LEAK-PROOF CONTAINERS STORED AWAY FROM WETLANDS, SURFACE WATERS, STORMWATER INLETS, AND DRAINAGE MEASURES. SPILL KITS SHALL BE AVAILABLE ONSITE FOR EMERGENCY USE. THERE SHALL BE A SECONDARY CONTAINMENT MEASURE OF ALL CHEMICALS IN ADDITION TO SPILL-PROOF CONTAINERS.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, APPLICABLE CONTRACTOR PERSONNEL MUST HAVE AN UNDERSTANDING OF THE EPA CONSTRUCTION GENERAL PERMIT REQUIREMENTS AND THEIR SPECIFIC RESPONSIBILITIES UNDER THE PERMIT. AT A MINIMUM, PERSONNEL MUST BE TRAINED AND UNDERSTAND THE FOLLOWING: LOCATION OF ALL STORMWATER CONTROLS AND HOW TO MAINTAIN THEM, PROCEDURES FOR COMPLYING WITH THE POLLUTION PREVENTION REQUIREMENTS, PROCEDURES FOR CONDUCTING INSPECTIONS, RECORDING FINDINGS, AND TAKING CORRECTIVE ACTION.
- ALL SEDIMENT TRACKED ONTO ROADWAYS MUST BE REMOVED AT END OF EACH WORK DAY.
- ALL USE OF CATIONIC TREATMENT CHEMICALS (EXAMPLES INCLUDE POLYMERS, CHITOSAN, CATIONIC PAM, FLOCCULANTS OR OTHER CHEMICAL UTILIZED FOR STABILIZATION) ARE PROHIBITED. IF ALL OTHER AVAILABLE STABILIZATION MEASURES ARE NOT POSSIBLE AND USE OF CATIONIC CHEMICALS IS ABSOLUTELY NECESSARY THE CONTRACTOR WILL NEED TO CONTACT THE EPA NEW ENGLAND OFFICE IN WRITING FOR APPROVAL AND SPECIFIC REQUIREMENTS (MAXIMUM DOSAGE RATE, RESIDUAL TESTING, SPECIFIC LIMITATIONS, ETC) PRIOR TO USE.
- IF USING NON-VEGETATIVE STABILIZATION MEASURES, IT MUST BE COMPLETED NO LATER THAN 14 DAYS AFTER INITIATING STABILIZATION. ALL AREAS OF EXPOSED SOILS MUST BE COVERED.
- INSPECTIONS OF EROSION CONTROL MEASURES SHALL BE AT LEAST ONCE EVERY 7 DAYS BY THE CONTRACTOR. AT A MINIMUM INSPECTIONS SHALL INCLUDE ALL DISTURBED AREAS, ALL STORMWATER CONTROLS AND POLLUTION PREVENTION MEASURES. ALL LOCATIONS WHERE STABILIZATION MEASURES HAVE BEEN IMPLEMENTED, EQUIPMENT AND MATERIAL STORAGE AREAS, ALL AREAS WHERE STORMWATER FLOWS AND ALL POINTS OF DISCHARGE. WHEN CORRECTIVE ACTIONS ARE REQUIRED, THE CONTRACTOR MUST IMMEDIATELY TAKE ALL STEPS TO PREVENT POLLUTANT DISCHARGES UNTIL A PERMANENT SOLUTION IS IMPLEMENTED. AS NECESSARY NEW OR MODIFIED CONTROLS MUST BE INSTALLED AND OPERATIONAL. THE REPAIR MUST BE COMPLETED WITHIN 7 DAYS FROM THE TIME OF DISCOVERY. WITHIN 24 HOURS OF A TRIGGERING CONDITION OCCURRING THAT REQUIRES A CORRECTIVE ACTION, A CORRECTIVE ACTION REPORT MUST BE COMPLETED.
- ALL SEDIMENT CONTROL DEVICES (SILT SACKS) INSTALLED WITHIN THE TOWN'S RIGHT-OF-WAY, MUST BE MAINTAINED, INSPECTED, CLEANED AND REPLACED AS NECESSARY TO PREVENT POSSIBLE FLOODING ISSUES DURING RAIN EVENTS.
- ONCE THE SITE IS STABILIZED AND APPROVAL IS GRANTED BY THE TOWN OF WINTHROP CONSERVATION COMMISSION/DEPARTMENT, ANY SEDIMENT CONTROL DEVICES MUST BE REMOVED BY THE CONTRACTOR AS SOON AS POSSIBLE.

**MAINTENANCE:**

- ALL MEASURES STATED ON THE STORMWATER POLLUTION PREVENTION PLANS, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION BY CONTRACTOR UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
- INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.
  - ALL SEEDDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A HEALTHY STAND OF GRASS IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEDED AS NEEDED.
  - ALL SEDIMENT CONTROLS SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE TUBULAR SEDIMENT CONTROLS WHEN IT REACHES HALF THE HEIGHT OF THE CONTROL MEASURE OR AS REQUESTED BY THE OWNER OR ENGINEER.
  - THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
  - THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
  - OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.

**ABBREVIATIONS:**

ABAN	ABANDON	L	LENGTH
ADA	AMERICANS WITH DISABILITIES ACTS	LP	LIGHT POLE
ADJ	ADJUST		
B	BORING	MAT	MATERIAL
BC	BOTTOM OF CURB	MAX	MAXIMUM
BIT	BITUMINOUS	MH	MANHOLE
BLDG	BUILDING	MIN	MINIMUM
BM	BENCH MARK	MISC	MISCELLANEOUS
BOS	BOTTOM OF SLOPE	MTD	MOUNTED
BOW	BOTTOM OF WALL	MW	MONITORING WELL
BV&B	BUTTERFLY VALVE & BOX	N	NORTH
BVW	BORDERING VEGETATED WETLAND	OD	OUTSIDE DIAMETER
		OH	OVERHEAD WIRE
		OWHD	OVERHEAD OBSERVATION WELL
		OW	OBSERVATION WELL
CATV	CABLE TELEVISION	PC	POINT OF CURVATURE
CB	CATCH BASIN	PCC	PRECAST CONCRETE CURB
CF	CUBIC FEET	PI	POINT OF INTERSECTION
CFS	CUBIC FEET PER SECOND	PL	PROPERTY LINE
CI	CAST IRON (PIPE)	POC	POINT ON CURVATURE
CL	CENTERLINE	POT	POINT ON TANGENT
CLDI	CEMENT LINED DUCTILE IRON (PIPE)	PRC	POINT OF REVERSE CURVATURE
CLF	CHAIN LINK FENCE	PROP, P	PROPOSED
CMP	CORRUGATED METAL PIPE	PT	POINT (OR POINT OF TANGENT)
CO	CLEAN OUT	PVC	POLYVINYL CHLORIDE (PIPE)
CONC	CONCRETE		
CONST	CONSTRUCTION	R&R	REMOVE & RESET/REPLACE
		R&S	REMOVE & STACK
		RCP	REINFORCED CONCRETE PIPE
		RD	ROAD (OR ROOF DRAIN)
		RELOC	RELOCATE
		REM	REMOVE
		RET	RETAIN, RETAINING OR RETENTION
		ROW	RIGHT OF WAY
		RR	RAILROAD
		RWY	ROADWAY
		SD	SUBDRAIN
		SF	SQUARE FEET
		SGC	SLOPED GRANITE CURB
		SMH	SEWER MANHOLE
		SP	STANDPIPE
		SPEC	SPECIFICATION
		STA	STATION
		STD	STANDARD
		SWEL	SOLID WHITE EDGE LINE
		SW	SIDEWALK
		SWLL	SOLID WHITE LANE LINE
		SYCL	SOLID YELLOW CENTERLINE
		TB	TEST BORING
		TC	TOP OF CURB
		TD	TRENCH DRAIN
		TEL	TELEPHONE
		TEL T	TELEPHONE MANHOLE
		TMH	TOP OF SLOPE
		TOS	TOP OF SLOPE
		TOW	TOP OF WALL
		TP	TEST PIT
		TYP	TYPICAL
		UD	UNDERDRAIN
		UP	UTILITY POLE
		V	VERTICAL
		VCP	VITRIFIED CLAY PIPE
		VERT	VERTICAL
		VGC	VERTICAL GRANITE CURB
		WG	WATER GATE
		WM	WATER MAIN
		WMH	WATER MANHOLE
		WSO	WATER SHUTOFF
ID	INSIDE DIAMETER		
IN	INCHES		
INCL	INCLUDE		
INST	INSTALLED		
INV, I.E.	INVERT, INVERT ELEVATION		

**CONSTRUCTION GENERAL PERMIT NOTES AND NARRATIVE:**

NARRATIVE: THE STORMWATER POLLUTION PREVENTION PLANS CONSIST OF THE EROSION CONTROL PLANS TOGETHER WITH AN EXISTING CONDITIONS PLANS, GRADING PLANS, ABBREVIATIONS AND NOTES SHEETS, AND DETAIL SHEETS.

THE EROSION CONTROL PLAN WILL BE IMPLEMENTED TO:

- TREAT EROSION AS SOON AS POSSIBLE AFTER DISTURBANCE.
- PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION AREA AND ENTERING THE RECEIVING WATERS.
- CONSTRUCTION ACTIVITIES SHALL BE SCHEDULED TO MINIMIZE EROSION.
- ONLY DISTURB, CLEAR, OR GRADE AREAS NECESSARY FOR CONSTRUCTION.



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
1	2019-03-07	REVISED PER CITY COMMENTS

APPLICANT/OWNER:  
**ENVELO PROPERTIES, LLC.**  
 274 MADISON AVENUE, SUITE 1801  
 NEW YORK, NY 10016

PROJECT:  
**10-26 SOMERSET STREET**  
 WINTHROP, MA

PROJECT NO. 2554-01 DATE: 02-13-2019

SCALE: DWG. NAME: C-2554-01

DESIGNED BY: SJL CHECKED BY: CMQ

PREPARED BY:

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 environmental consulting • landscape architecture  
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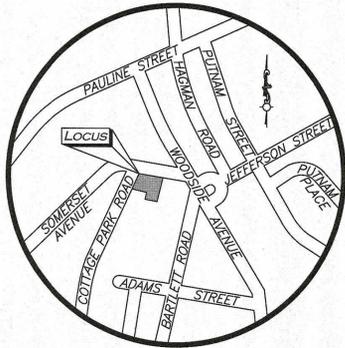
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ABBREVIATIONS & NOTES C-002

**DIG SAFE**



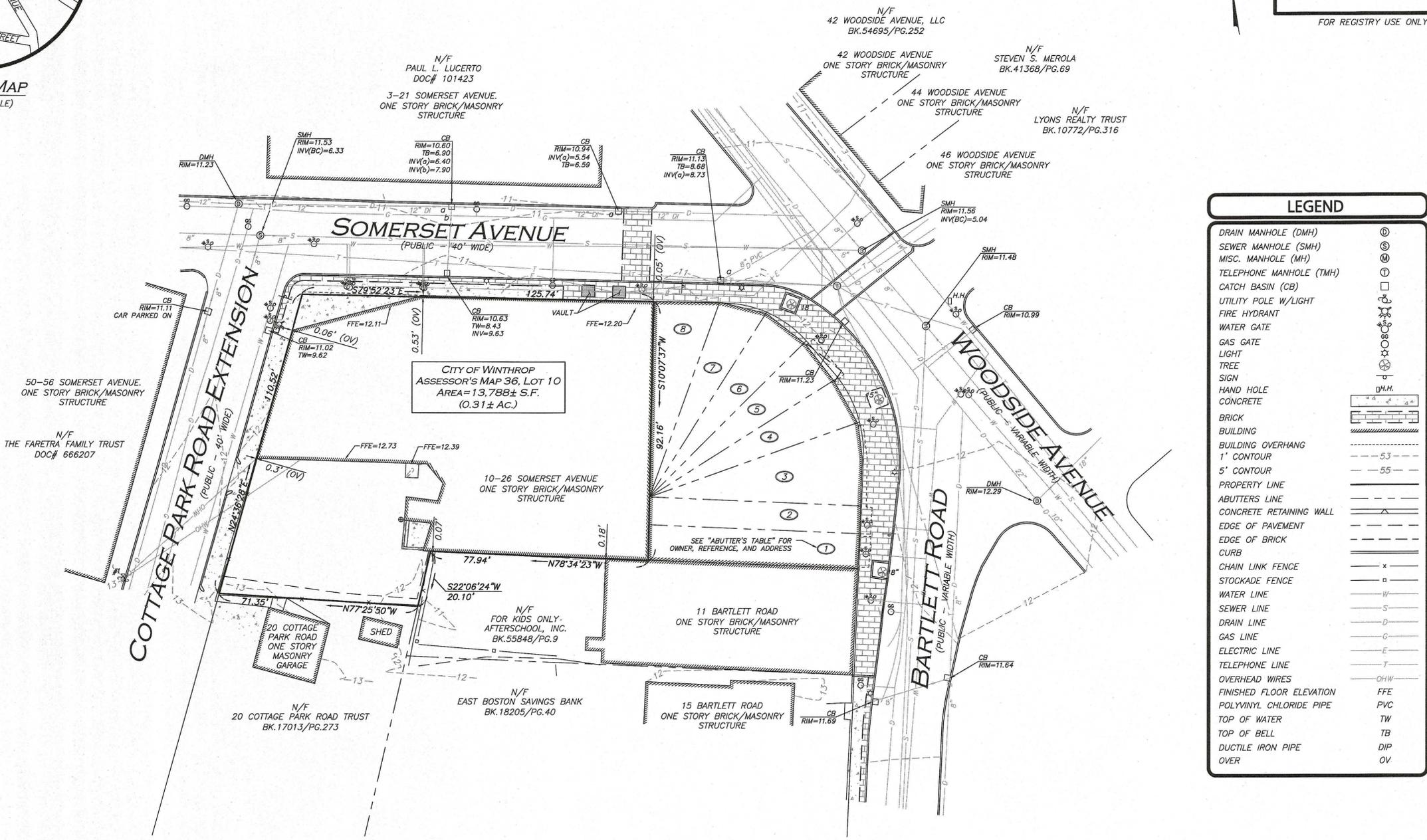
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 1-888-344-7233



**LOCUS MAP**  
(NOT TO SCALE)

**UTILITY STATEMENT**

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LEGEND	
DRAIN MANHOLE (DMH)	⊙
SEWER MANHOLE (SMH)	⊗
MISC. MANHOLE (MH)	⊙
TELEPHONE MANHOLE (TMH)	⊙
CATCH BASIN (CB)	⊠
UTILITY POLE W/LIGHT	⊙
FIRE HYDRANT	⊙
WATER GATE	⊙
GAS GATE	⊙
LIGHT	⊙
TREE	⊙
SIGN	⊙
HAND HOLE	⊙
CONCRETE	⊙
BRICK	⊙
BUILDING	⊙
BUILDING OVERHANG	⊙
1' CONTOUR	— 53 —
5' CONTOUR	— 55 —
PROPERTY LINE	— — — — —
ABUTTER'S LINE	— — — — —
CONCRETE RETAINING WALL	— — — — —
EDGE OF PAVEMENT	— — — — —
EDGE OF BRICK CURB	— — — — —
CHAIN LINK FENCE	— x —
STOCKADE FENCE	— o —
WATER LINE	— W —
SEWER LINE	— S —
DRAIN LINE	— D —
GAS LINE	— G —
ELECTRIC LINE	— E —
TELEPHONE LINE	— T —
OVERHEAD WIRES	— OHW —
FINISHED FLOOR ELEVATION	FFE
POLYVINYL CHLORIDE PIPE	PVC
TOP OF WATER	TW
TOP OF BELL	TB
DUCTILE IRON PIPE	DIP
OVER	OV

FOR REGISTRY USE ONLY

WE HEREBY CERTIFY THAT:  
THIS PLAN IS THE RESULT OF AN ACTUAL ON THE GROUND SURVEY PERFORMED ON OR BETWEEN JUNE 15, 2017 AND JUNE 23, 2017.  
THIS PLAN WAS PREPARED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS DATED JANUARY 1, 1976 AND REVISED JANUARY 12, 1988.  
ACCORDING TO DEEDS AND PLANS OF RECORD, THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIP, AND THE LINES OF THE STREETS OR WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS AND WAYS ALREADY ESTABLISHED, AND THAT NO NEW LINES FOR THE DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.  
THE ABOVE CERTIFICATION IS INTENDED TO MEET REGISTRY OF DEEDS REQUIREMENTS FOR THE RECORDING OF PLANS AND IS NOT A CERTIFICATION TO THE TITLE OR OWNERSHIP OF THE PROPERTY SHOWN. OWNERS OF ADJOINING PROPERTIES ARE SHOWN ACCORDING TO CURRENT TOWN OF WINTHROP ASSESSOR'S INFORMATION.  
THE ABOVE IS CERTIFIED TO THE BEST OF MY PROFESSIONAL KNOWLEDGE, INFORMATION AND BELIEF.

ALLEN & MAJOR ASSOCIATES, INC.  
June 30, 2017  
PROFESSIONAL LAND SURVEYOR FOR ALLEN & MAJOR ASSOCIATES, INC.



REV	DATE	DESCRIPTION

APPLICANT/OWNER:  
**10-26 SOMERSET, LLC**  
22 CRANMORE ROAD  
WELLESLEY, MA 02482

PROJECT:  
**10-26 SOMERSET STREET**  
WINTHROP, MA

PROJECT NO.	2354-01	DATE:	06/30/17
SCALE:	1" = 20'	DWG. NAME:	S-2354-01-EC
DRAFTED BY:	COB/AH	CHECKED BY:	NI/COB

PREPARED BY:

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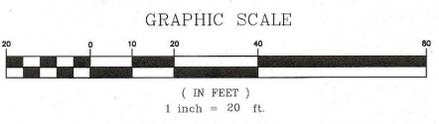
DRAWING TITLE:	SHEET No.
<b>EXISTING CONDITIONS</b>	<b>1</b>

ABUTTER'S TABLE			
PARCEL	OWNER	REFERENCE	ADDRESS
1	RICHARD F. DIMENTO	BK.50369/Pg.62	9 BARTLETT ROAD
2	JACKIE NGUYEN	BK.52212/Pg.282	7 BARTLETT ROAD
3	CAROL MEROLA	BK.34596/Pg.185	3-5 BARTLETT ROAD
4	PIZZA CENTER REALTY TRUST	BK.55381/Pg.30	47 WOODSIDE AVENUE
5	BBO TWINS, LLC	BK.46875/Pg.45	47A WOODSIDE AVENUE
6	ROBERT & STEPHEN GAGIN	BK.55448/Pg.195	2 SOMERSET AVENUE
7	STICKY MOLASSES, LLC	BK.55194/Pg.65	4 SOMERSET AVENUE
8	STICKY MOLASSES, LLC	BK.55194/Pg.65	6-8 SOMERSET AVENUE

**PLAN REFERENCES**  
-PLAN BOOK 9776, PLAN EN  
-PLAN BOOK 3956, PLAN 461  
-PLAN BOOK 6671, PLAN 52  
-LLC 7303A  
-PLAN ENTITLED "PLAN OF WIDENING AT JUNCTION OF WOODSIDE AVE., SOMERSET AVE AND BARTLETT RD. WINTHROP, MASS. AS LAID OUT BY THE BOARD OF SELECTMEN" DATED JANUARY 1917, FILED IN TOWN CLERK'S OFFICE.  
-PLAN ENTITLED "PLAN OF WIDENING OF PORTION OF SOMERSET AVENUE AS LAID OUT BY THE BOARD OF SELECTMEN" DATED OCTOBER 17, 1928 FILED IN TOWN CLERK'S OFFICE.

**LOCUS REFERENCES**  
-TOWN OF WINTHROP ASSESSORS MAP 36, LOT 10  
-CERTIFICATE NUMBER 169632

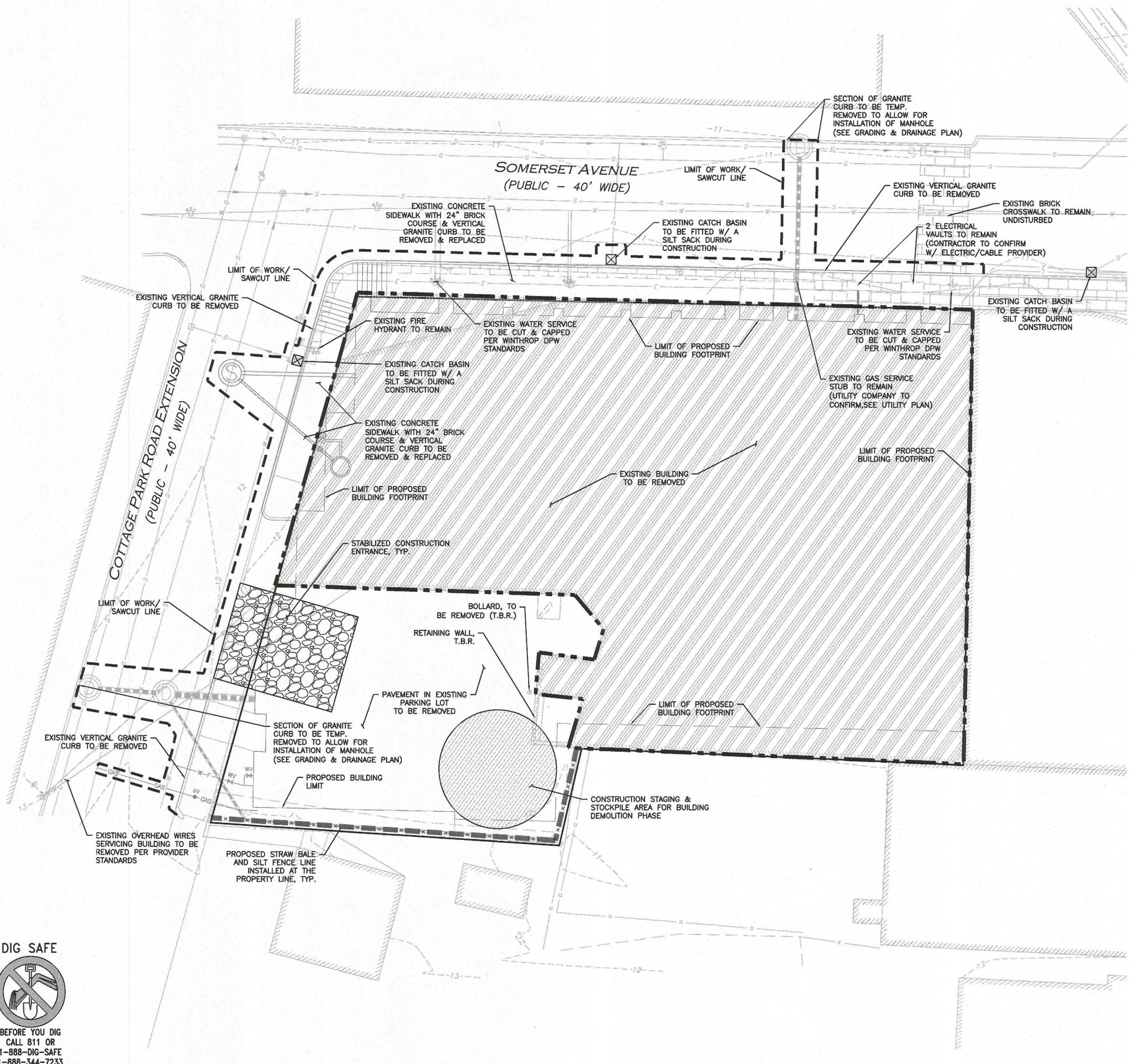
**NOTES**  
1. NORTH ARROW IS BASED ON MASSACHUSETTS GRID COORDINATE SYSTEM (MAINLAND ZONE) (NAD 83).  
2. BOOK/PAGE AND PLAN REFERENCES ARE TAKEN FROM SUFFOLK COUNTY REGISTER OF DEEDS IN BOSTON, MA.  
3. VERTICAL DATUM IS NAVD 88.  
4. CONTOUR INTERVAL IS ONE FOOT (1').  
5. GAS SERVICE CONNECTIONS ARE ASSUMED.



N:\PROJECTS\2554-01\CIVIL\DRAWINGS\CURRENT\C-2554-01\_DEMO & EROSION CONTROL.DWG

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1-888-344-7233



**LEGEND**

SILT FENCE	—SF—
TUBULAR BARRIER	—X—X—X—
BUILDING TO BE REMOVED	▨
CATCH BASIN FILTER	⊠
STONE CHECK DAM	⊞
STABILIZED ENTRANCE	▨
STOCKPILE/STAGING AREA	▨
TREE PROTECTION	—X—X—
LIMIT OF WORK LINE	- - - - -

- NOTES:**
- ALL CATCH BASINS WITHIN THE PAVEMENT AREA SHALL BE EQUIPPED WITH SILT SACKS (OR APPROVED EQUAL).
  - THE INFORMATION SHOWN ON THIS PLAN IS THE SOLE PROPERTY OF ALLEN & MAJOR ASSOCIATES, INC. IT'S INTENDED USE IS TO PROVIDE INFORMATION. ANY ALTERATION, MISUSE, OR RECALCULATION OF INFORMATION OR DATA WITHOUT THE EXPRESSED, WRITTEN CONSENT OF ALLEN & MAJOR ASSOCIATES, INC. IS STRICTLY PROHIBITED.
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  - ALTHOUGH CERTAIN ITEMS HAVE BEEN NOTED ON THIS DRAWING FOR DEMOLITION, NO ATTEMPT HAS BEEN MADE TO DELINEATE EACH AND EVERY ITEM THAT REQUIRES DEMOLITION FOR THE COMPLETION OF THE PROJECT. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NECESSARY DEMOLITION WORK TO COMPLETE THE PROJECT. ALLEN & MAJOR ASSOCIATES, INC. IS NOT RESPONSIBLE FOR SITE DEMOLITION ITEMS NOT SHOWN ON THE SURVEY, OR SPECIFICALLY NOTED. THE DEMOLITION NOTES AND ARROWS ON THIS PLAN ARE TYPICAL AND DO NOT REFLECT QUANTITY.
  - EXISTING SEWER SERVICES AT 10-16 SOMERSET SHALL BE ABANDONED PER WINTHROP DEPARTMENT OF PUBLIC WORKS (DPW) STANDARDS.

PROFESSIONAL ENGINEER FOR  
ALLEN & MAJOR ASSOCIATES, INC.

REV	DATE	DESCRIPTION
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APPLICANT/OWNER:  
**ENVELO PROPERTIES, LLC.**  
274 MADISON AVENUE, SUITE 1801  
NEW YORK, NY 10016

PROJECT:  
**10-26 SOMERSET STREET**  
WINTHROP, MA

PROJECT NO.	2554-01	DATE:	02-13-2019
SCALE:	1" = 10'	DWG. NAME:	C2554-01
DESIGNED BY:	SJL	CHECKED BY:	CMQ

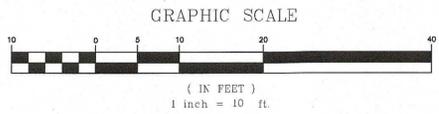
PREPARED BY:

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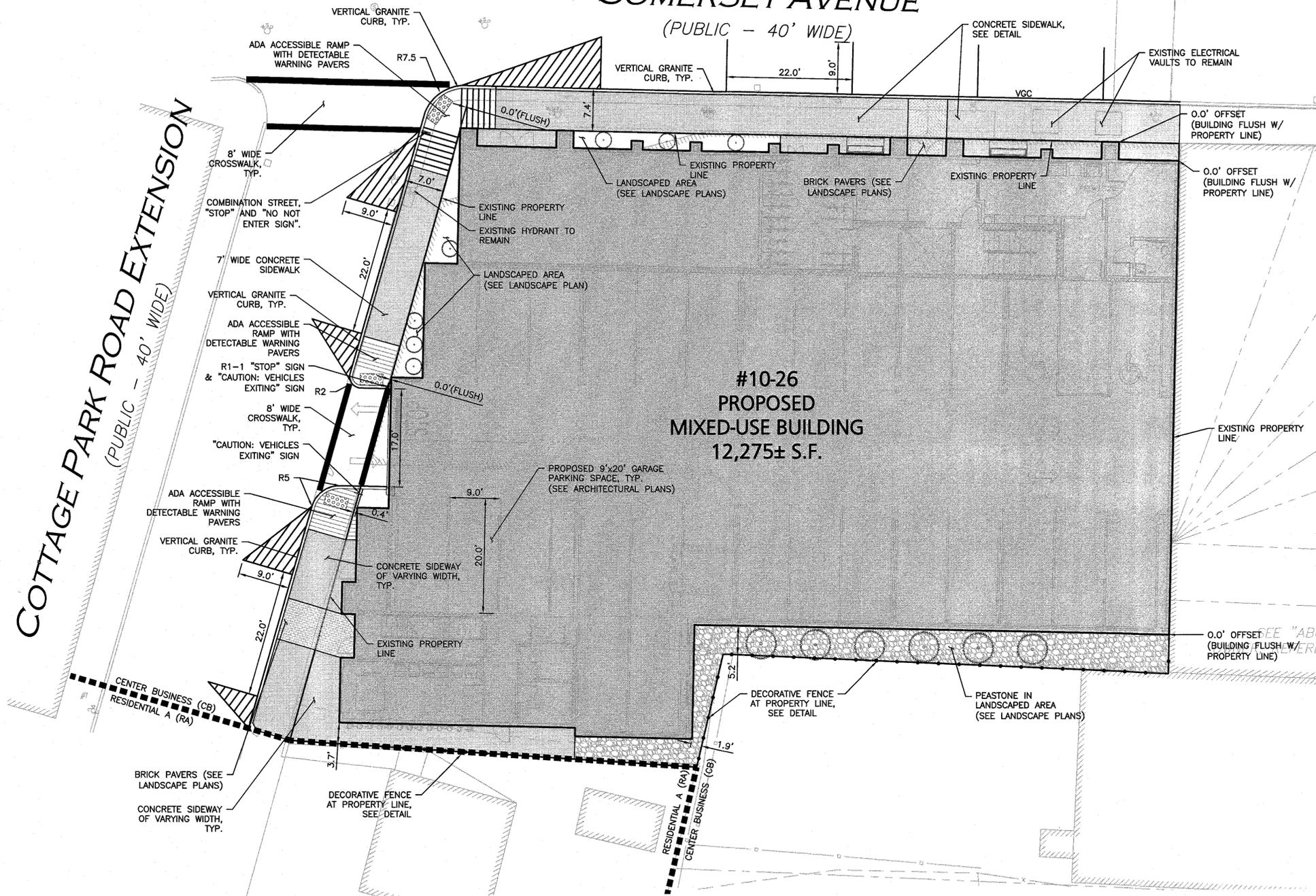
DRAWING TITLE: <b>DEMOLITION &amp; EROSION CONTROL PLAN</b>	SHEET No. <b>C-101</b>
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# SOMERSET AVENUE

(PUBLIC - 40' WIDE)

COTTAGE PARK ROAD EXTENSION  
(PUBLIC - 40' WIDE)



#10-26  
PROPOSED  
MIXED-USE BUILDING  
12,275± S.F.

LEGEND:	
PROPERTY LINE	---
SIGN	+
BOLLARD	•
BUILDING	[Hatched Area]
BUILDING ARCHITECTURE	[Line Style]
BUILDING INTERIOR WALLS	[Line Style]
CURB	[Line Style]
ROADWAY STRIPING	[Line Style]
TRAFFIC ARROWS	[Arrow Symbols]
SIDEWALK	[Line Style]
ADA ACCESSIBLE RAMP	[Hatched Area]
ADA DET. WARNING SURFACE	[Hatched Area]
SETBACK LINE	---
DECORATIVE FENCE	[Line Style]

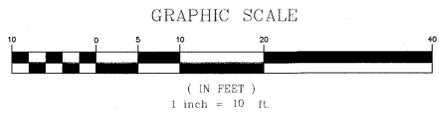
**NOTES:**

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
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  - ALL RADII SHALL BE 3' UNLESS OTHERWISE NOTED.
  - ALL SIGNS AND PAVEMENT MARKINGS TO BE INSTALLED WITHIN THE PROJECT SITE SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
  - SEE DETAIL SHEET C-503 FOR SIGN TABLE.
  - SEE ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
  - THE CONTRACTOR SHALL CONTACT "DIGSAFE" AND THE CITY OF FRAMINGHAM DEPARTMENT OF PUBLIC WORKS AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST THE LOCATION OF THE EXISTING UTILITIES.
- DIGSAFE: 1-888-344-7233  
WINTHROP DPW: (617) 846-1341

PARKING SUMMARY CHART				
USE: MULTI-FAMILY DWELLINGS OR ATTACHED DWELLINGS				
0.75 PARKING SPACES REQUIRED PER ONE-BEDROOM UNIT				
1.25 PARKING SPACES REQUIRED PER TWO-BEDROOM UNIT				
(15 1-BR UNITS) X 0.75 =		11.25 SPACES		
(15 2-BR UNITS) X 1.25 =		18.75 SPACES		
TOTAL OFF-STREET PARKING REQUIREMENT =		30 SPACES		
RIDESHARE SPACE PROVIDED (10% REDUCTION IN PARKING COUNT)				
10% OF 30 SPACES = 3 SPACES REMOVED				
30 SPACES - 3 SPACES = 27 SPACES REQUIRED				
ADA REQUIRED: THERE ARE BETWEEN 26 TO 50 TOTAL PARKING STALLS REQUIRING 2 OF THEM TO BE ACCESSIBLE				
ADA PROVIDED: 2 ADA ACCESSIBLE SPACES, ALL OF WHICH ARE VAN ACCESSIBLE.				
STANDARD SPACES	COMPACT SPACES	ACCESSIBLE SPACES	TOTAL PROVIDED	TOTAL REQUIRED
27	0	2	29*	27

\*REQUIRES RELIEF

ZONING SUMMARY CHART: CENTER BUSINESS			
ITEM	REQUIRED/ALLOWED	EXISTING	PROPOSED
MINIMUM LOT AREA	5,000 S.F.	13,788 S.F.	13,788 S.F.
MAX. COVERAGE (BUILDING)	90%	76%	89%
MAXIMUM DENSITY (UNITS/S.F.)	N/A	N/A	N/A
MAX BUILDING HEIGHT	48'	17'-0"	45'-6"
MIN YARD: FRONT	0.0'	0.53 OVER PL	0.0'
MIN YARD: SIDE	0.0'	0.0'	0.0'
MINIMUM STREET FRONTAGE	50.0'	236.3'±	236.3'±
MINIMUM LOT WIDTH	50.0'	90.4'	90.4'



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NEW YORK, NY 10016

PROJECT:  
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WINTHROP, MA

PROJECT NO.	2554-01	DATE:	02-13-2019
SCALE:	1" = 10'	DWG. NAME:	C-2554-01
DESIGNED BY:	SJL	CHECKED BY:	CMQ

PREPARED BY:

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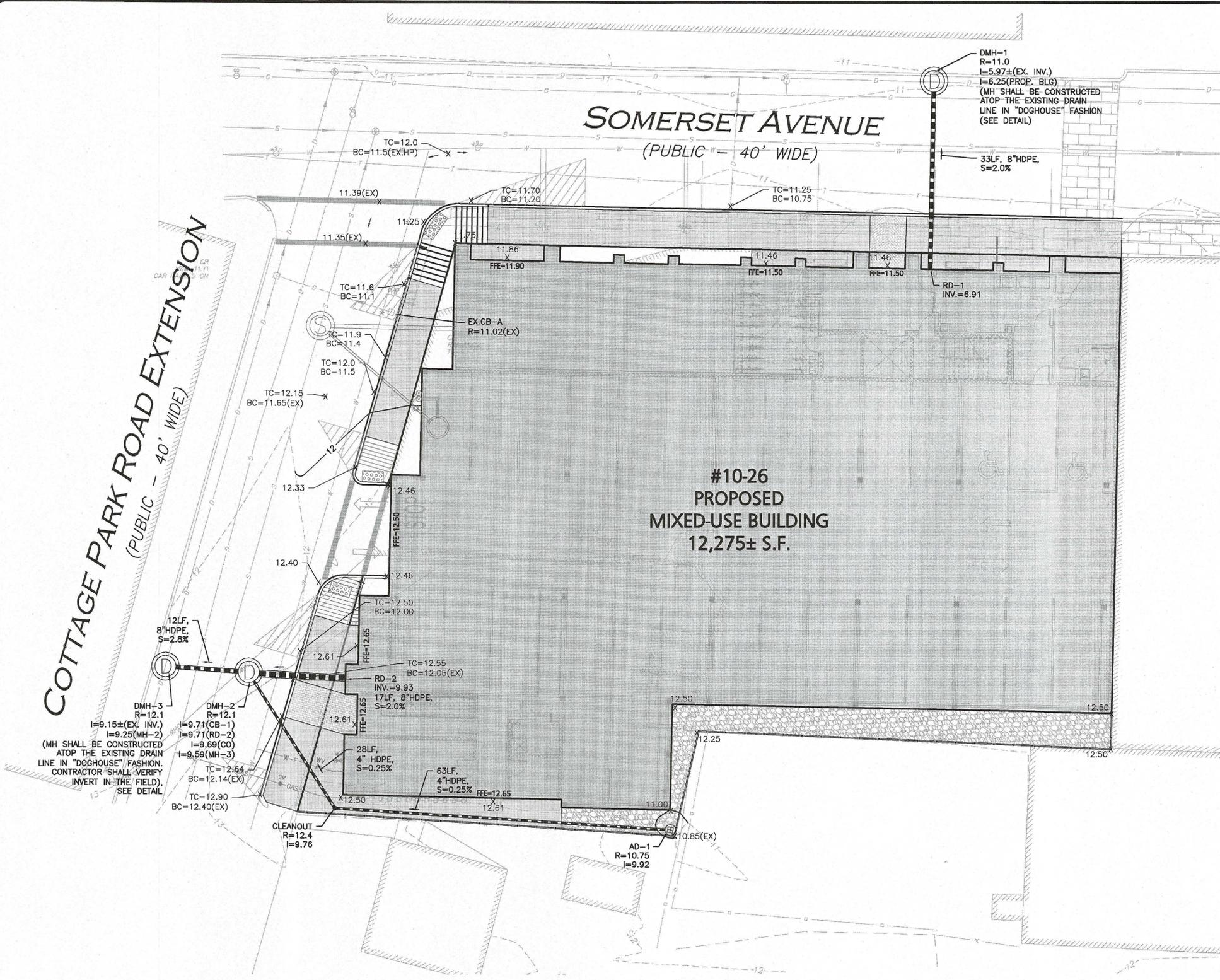
DRAWING TITLE:	SHEET No.
LAYOUT & MATERIALS PLAN	C-102

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1-888-344-7233

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LEGEND	
DRAIN MANHOLE	
CATCH BASIN	
AREA DRAIN	
CLEANOUT	
SPOT GRADE	x 12.00
DRAIN LINE	
1' CONTOUR	
CLEANOUT	CO

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  - PIPE DIMENSIONS ARE MEASURED FROM THE INSIDE FACE OF THE STRUCTURE.
  - THE SIZE AND LOCATION OF EXISTING ROOF LEADERS SHALL BE CONFIRMED BY THE CONTRACTOR IN THE FIELD.
  - THE CONTRACTOR SHALL CONTACT "DIGSAFE" AND THE AT LEAST 72 HOURS PRIOR TO ANY EXCAVATION WORK TO REQUEST THE LOCATION OF THE EXISTING UTILITIES.  
DIGSAFE: 1-888-344-7233
  - ANY ROOF DRAINAGE PIPE LOCATED WITHIN 10' OF THE BUILDING FOUNDATION SHALL BE CAST IRON PIPE PER MA PLUMBING CODE.
  - ALL PROPOSED WORK SHALL COMPLY WITH TOWN OF WINTHROP DPW STANDARDS.



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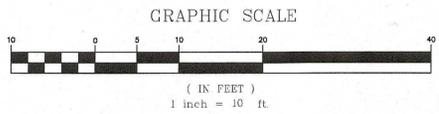
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DRAWING TITLE:	SHEET No.
<b>GRADING &amp; DRAINAGE PLAN</b>	<b>C-103</b>

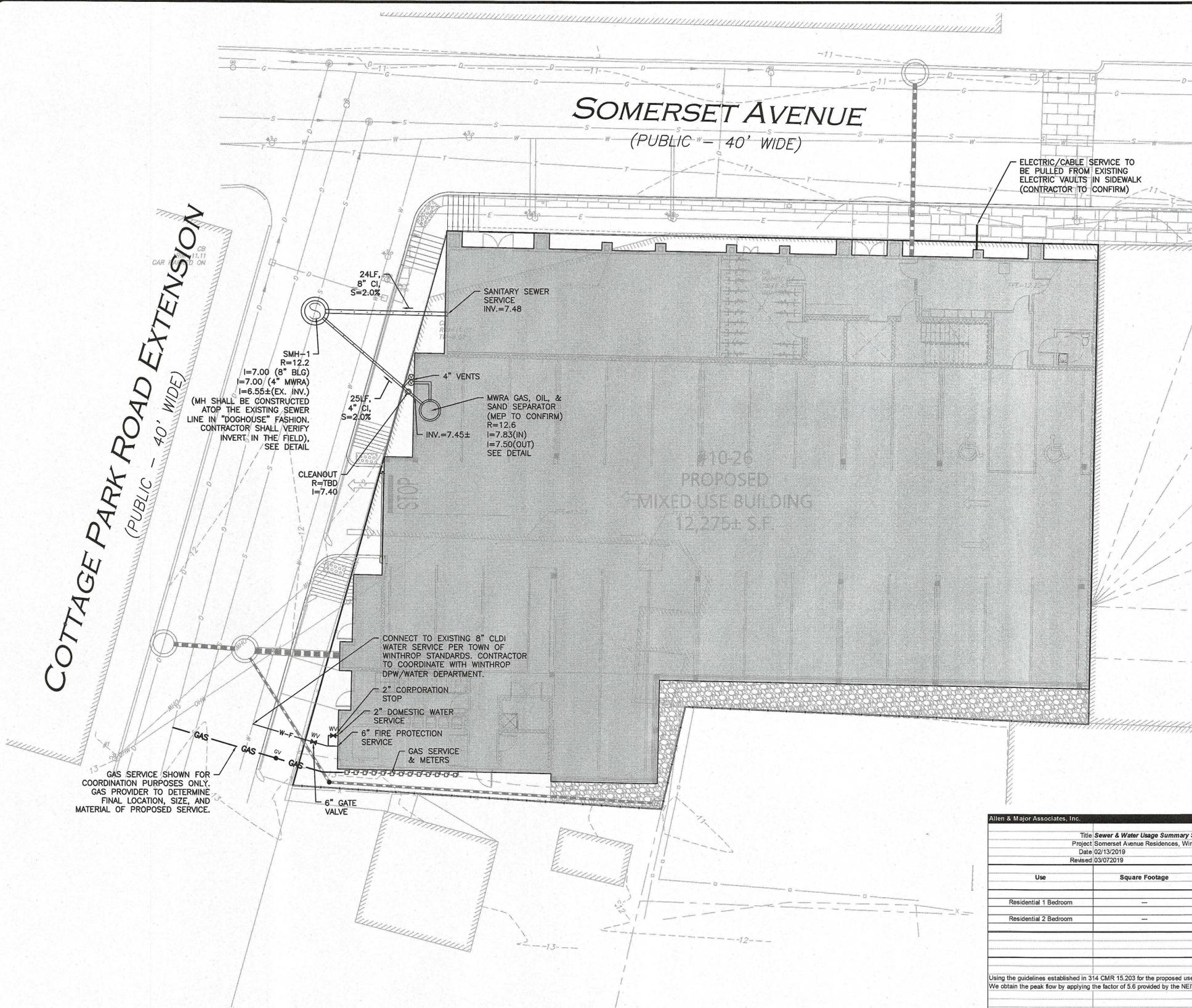


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LEGEND	
SEWER MANHOLE	⊙
SEWER CLEANOUT	⊙
SEWER VENT	⊙
SEWER LINE	—
WATER (DOMESTIC SERVICE)	—D—
WATER (FIRE PROTECTION)	—F—
WATER VALVE	WV
GAS LINE	—GAS—
GAS VALVE	GV
ELECTRICAL CONDUIT	—E—

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  - GAS SERVICE SIZE TO BE CONFIRMED BY MECHANICAL ENGINEER AND SERVICE PROVIDER.
  - WATER SERVICES SHOWN ARE FOR COORDINATION PURPOSES ONLY. FINAL SIZE AND LOCATION TO BE DETERMINED BY M.E.P.
  - FIRE SERVICE SIZE TO BE CONFIRMED BY FIRE PROTECTION ENGINEER.
  - ELECTRIC AND TELECOMMUNICATIONS LINES SHOWN FOR COORDINATION PURPOSES ONLY. FINAL LOCATION OF TRANSFORMER, UNDERGROUND ELECTRIC AND TELE/DATA LINES, OVERHEAD WIRES, AND PROPOSED UTILITY POLES TO BE DETERMINED BY UTILITY PROVIDER.
  - ALL PROPOSED WORK SHALL COMPLY WITH TOWN OF WINTHROP DPW STANDARDS.



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 WINTHROP, MA

PROJECT NO. 2554-01 DATE: 02-13-2019

SCALE: 1" = ##' DWG. NAME: C2554-01

DESIGNED BY: SJL CHECKED BY: CMQ

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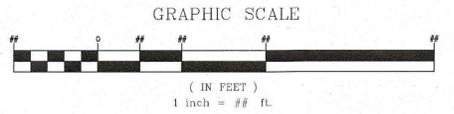
DRAWING TITLE: UTILITIES PLAN SHEET No. C-104

Use	Square Footage	Bedrooms	Gallons Per Day/Bedroom or 1,000sf	Sewer/Water Usage based on Title V
Residential 1 Bedroom	—	15	110	1,650
Residential 2 Bedroom	—	15	220	3,300
				4,950

Using the guidelines established in 314 CMR 15.203 for the proposed uses on site, the project will generate 0.00506 MGD (5,060 gallons/day) of wastewater. We obtain the peak flow by applying the factor of 5.6 provided by the NEIWPCC TR16. Accordingly, the proposed peak flow would be as follows:

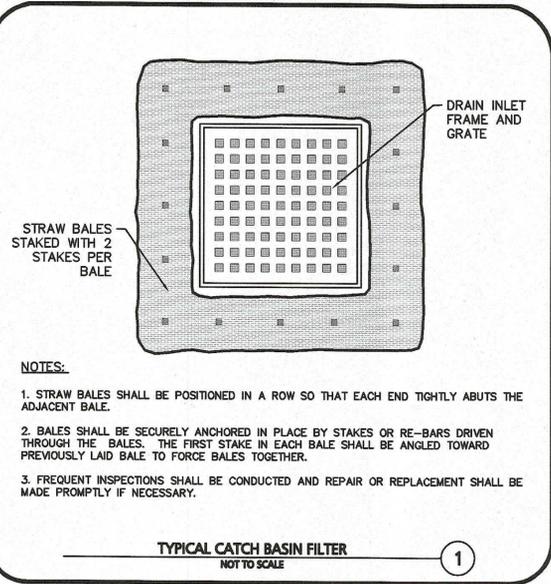
Proposed Peak = (4,950 GPD) \* (5.6 Peaking Factor) = **27,720 GPD**

(27,720 GPD) \* (1day/24hours) \* (1hour/60min) \* (1min/60sec) \* (1cf/7.48 Gal) = **0.04 CFS**

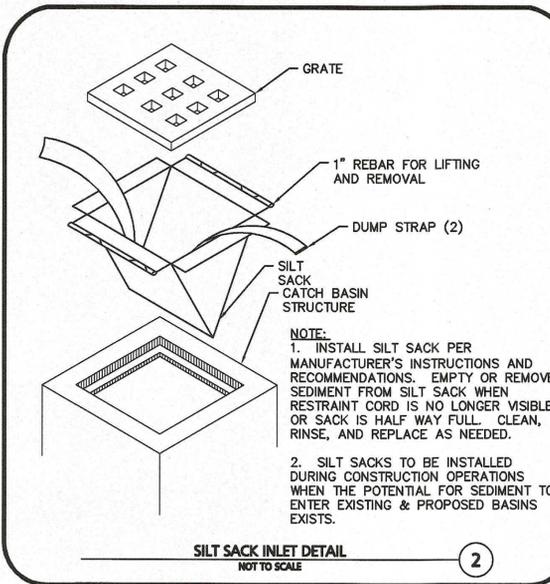


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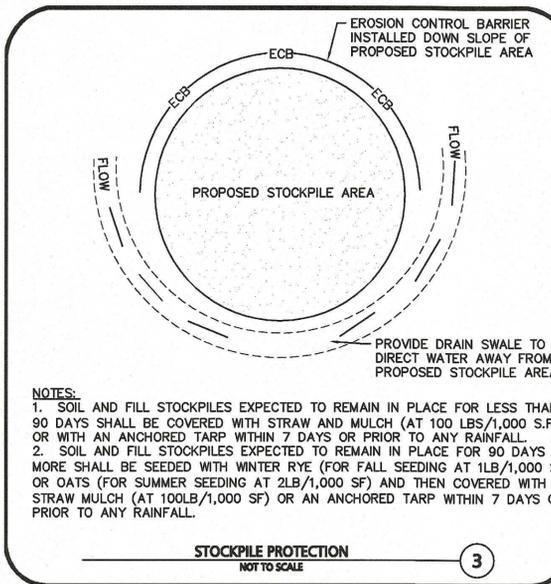
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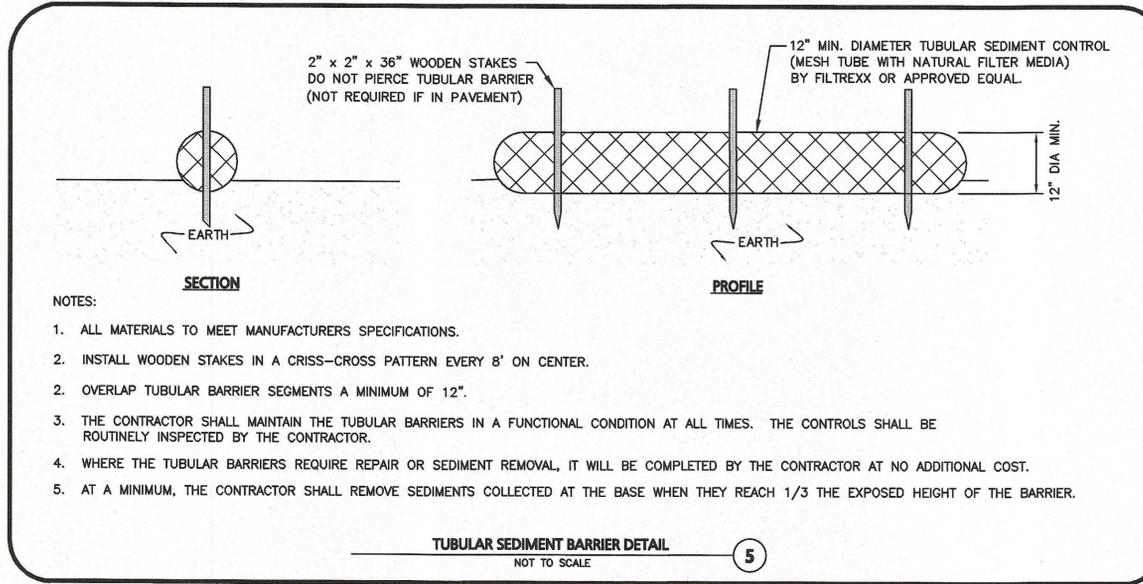
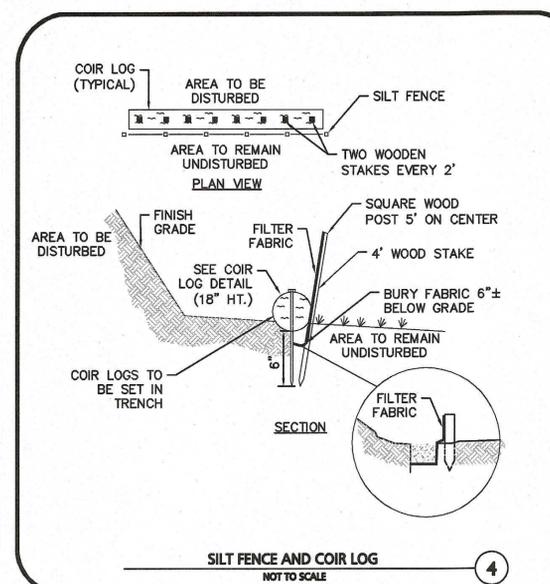
- NOTES:**
1. STRAW BALES SHALL BE POSITIONED IN A ROW SO THAT EACH END TIGHTLY ABUTS THE ADJACENT BALE.
  2. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
  3. FREQUENT INSPECTIONS SHALL BE CONDUCTED AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY IF NECESSARY.



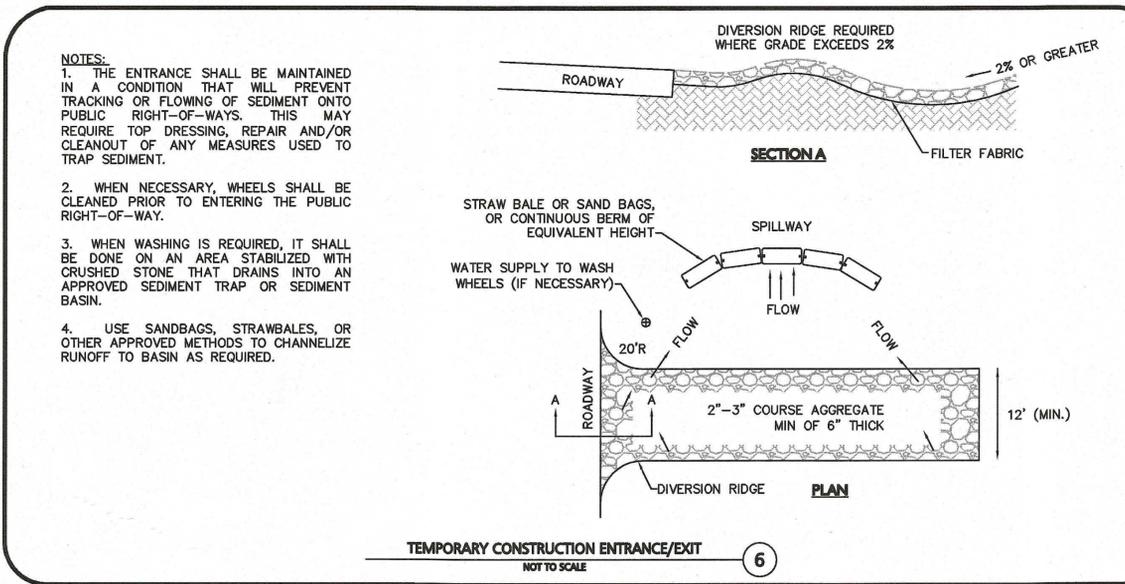
- NOTE:**
1. INSTALL SILT SACK PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. EMPTY OR REMOVE SEDIMENT FROM SILT SACK WHEN RESTRAINT CORD IS NO LONGER VISIBLE OR SACK IS HALF WAY FULL. CLEAN, RINSE, AND REPLACE AS NEEDED.
  2. SILT SACKS TO BE INSTALLED DURING CONSTRUCTION OPERATIONS WHEN THE POTENTIAL FOR SEDIMENT TO ENTER EXISTING & PROPOSED BASINS EXISTS.



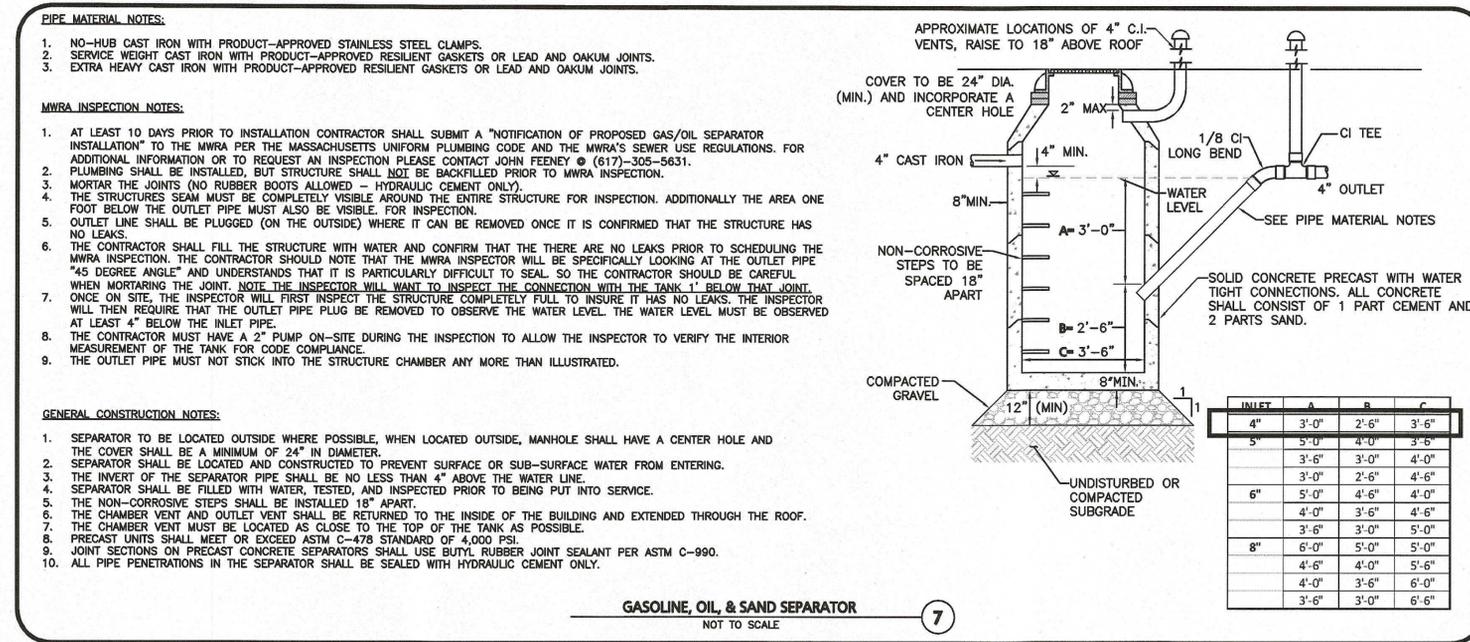
- NOTES:**
1. SOIL AND FILL STOCKPILES EXPECTED TO REMAIN IN PLACE FOR LESS THAN 90 DAYS SHALL BE COVERED WITH STRAW AND MULCH (AT 100 LBS/1,000 S.F.), OR WITH AN ANCHORED TARP WITHIN 7 DAYS OR PRIOR TO ANY RAINFALL.
  2. SOIL AND FILL STOCKPILES EXPECTED TO REMAIN IN PLACE FOR 90 DAYS OR MORE SHALL BE SEED WITH WINTER RYE (FOR FALL SEEDING AT 1LB/1,000 SF) OR OATS (FOR SUMMER SEEDING AT 2LB/1,000 SF) AND THEN COVERED WITH STRAW MULCH (AT 100LB/1,000 SF) OR AN ANCHORED TARP WITHIN 7 DAYS OR PRIOR TO ANY RAINFALL.



- NOTES:**
1. ALL MATERIALS TO MEET MANUFACTURERS SPECIFICATIONS.
  2. INSTALL WOODEN STAKES IN A CRISS-CROSS PATTERN EVERY 8' ON CENTER.
  3. OVERLAP TUBULAR BARRIER SEGMENTS A MINIMUM OF 12".
  4. THE CONTRACTOR SHALL MAINTAIN THE TUBULAR BARRIERS IN A FUNCTIONAL CONDITION AT ALL TIMES. THE CONTROLS SHALL BE ROUTINELY INSPECTED BY THE CONTRACTOR.
  5. WHERE THE TUBULAR BARRIERS REQUIRE REPAIR OR SEDIMENT REMOVAL, IT WILL BE COMPLETED BY THE CONTRACTOR AT NO ADDITIONAL COST.
  6. AT A MINIMUM, THE CONTRACTOR SHALL REMOVE SEDIMENTS COLLECTED AT THE BASE WHEN THEY REACH 1/3 THE EXPOSED HEIGHT OF THE BARRIER.

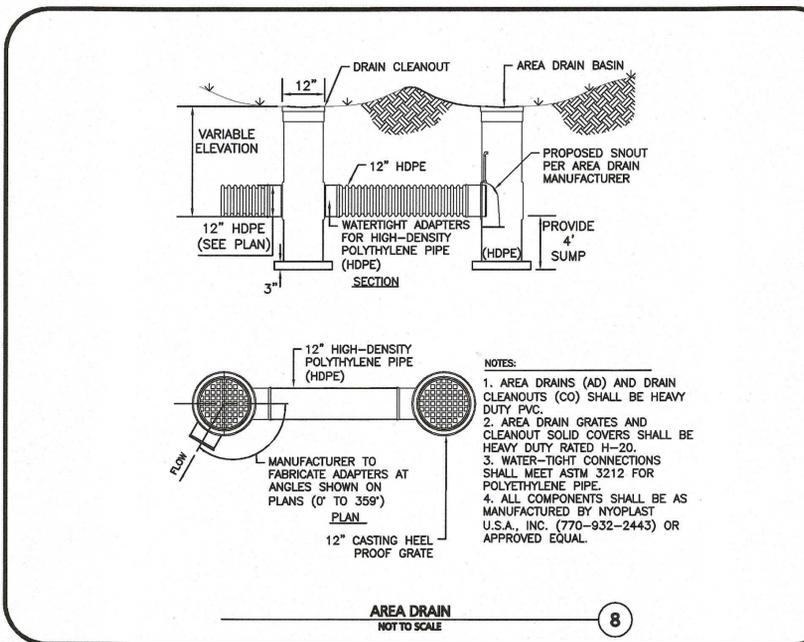


- NOTES:**
1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTERING THE PUBLIC RIGHT-OF-WAY.
  3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
  4. USE SANDBAGS, STRAWBALES, OR OTHER APPROVED METHODS TO CHANNELIZE RUNOFF TO BASIN AS REQUIRED.

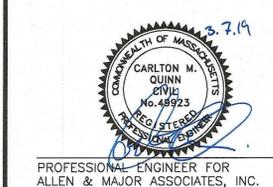


- PIPE MATERIAL NOTES:**
1. NO-HUB CAST IRON WITH PRODUCT-APPROVED STAINLESS STEEL CLAMPS.
  2. SERVICE WEIGHT CAST IRON WITH PRODUCT-APPROVED RESILIENT GASKETS OR LEAD AND OAKUM JOINTS.
  3. EXTRA HEAVY CAST IRON WITH PRODUCT-APPROVED RESILIENT GASKETS OR LEAD AND OAKUM JOINTS.
- MWRA INSPECTION NOTES:**
1. AT LEAST 10 DAYS PRIOR TO INSTALLATION CONTRACTOR SHALL SUBMIT A "NOTIFICATION OF PROPOSED GAS/OIL SEPARATOR INSTALLATION" TO THE MWRA PER THE MASSACHUSETTS UNIFORM PLUMBING CODE AND THE MWRA'S SEWER USE REGULATIONS. FOR ADDITIONAL INFORMATION OR TO REQUEST AN INSPECTION PLEASE CONTACT JOHN FEENEY @ (617)-305-5631.
  2. PLUMBING SHALL BE INSTALLED, BUT STRUCTURE SHALL NOT BE BACKFILLED PRIOR TO MWRA INSPECTION.
  3. MORTAR THE JOINTS (NO RUBBER BOOTS ALLOWED - HYDRAULIC CEMENT ONLY).
  4. THE STRUCTURES SEAM MUST BE COMPLETELY VISIBLE AROUND THE ENTIRE STRUCTURE FOR INSPECTION. ADDITIONALLY THE AREA ONE FOOT BELOW THE OUTLET PIPE MUST ALSO BE VISIBLE FOR INSPECTION.
  5. OUTLET LINE SHALL BE PLUGGED (ON THE OUTSIDE) WHERE IT CAN BE REMOVED ONCE IT IS CONFIRMED THAT THE STRUCTURE HAS NO LEAKS.
  6. THE CONTRACTOR SHALL FILL THE STRUCTURE WITH WATER AND CONFIRM THAT THERE ARE NO LEAKS PRIOR TO SCHEDULING THE MWRA INSPECTION. THE CONTRACTOR SHOULD NOTE THAT THE MWRA INSPECTOR WILL BE SPECIFICALLY LOOKING AT THE OUTLET PIPE "45 DEGREE ANGLE" AND UNDERSTANDS THAT IT IS PARTICULARLY DIFFICULT TO SEAL. SO THE CONTRACTOR SHOULD BE CAREFUL WHEN MORTARING THE JOINT. NOTE THE INSPECTOR WILL WANT TO INSPECT THE CONNECTION WITH THE TANK 1' BELOW THAT JOINT.
  7. ONCE ON SITE, THE INSPECTOR WILL FIRST INSPECT THE STRUCTURE COMPLETELY FULL TO INSURE IT HAS NO LEAKS. THE INSPECTOR WILL THEN REQUIRE THAT THE OUTLET PIPE PLUG BE REMOVED TO OBSERVE THE WATER LEVEL. THE WATER LEVEL MUST BE OBSERVED AT LEAST 4" BELOW THE INLET PIPE.
  8. THE CONTRACTOR MUST HAVE A 2" PUMP ON-SITE DURING THE INSPECTION TO ALLOW THE INSPECTOR TO VERIFY THE INTERIOR MEASUREMENT OF THE TANK FOR CODE COMPLIANCE.
  9. THE OUTLET PIPE MUST NOT STICK INTO THE STRUCTURE CHAMBER ANY MORE THAN ILLUSTRATED.
- GENERAL CONSTRUCTION NOTES:**
1. SEPARATOR TO BE LOCATED OUTSIDE WHERE POSSIBLE, WHEN LOCATED OUTSIDE, MANHOLE SHALL HAVE A CENTER HOLE AND THE COVER SHALL BE A MINIMUM OF 24" IN DIAMETER.
  2. SEPARATOR SHALL BE LOCATED AND CONSTRUCTED TO PREVENT SURFACE OR SUB-SURFACE WATER FROM ENTERING.
  3. THE INVERT OF THE SEPARATOR PIPE SHALL BE NO LESS THAN 4" ABOVE THE WATER LINE.
  4. SEPARATOR SHALL BE FILLED WITH WATER, TESTED, AND INSPECTED PRIOR TO BEING PUT INTO SERVICE.
  5. THE NON-CORROSIVE STEPS SHALL BE INSTALLED 18" APART.
  6. THE CHAMBER VENT AND OUTLET VENT SHALL BE RETURNED TO THE INSIDE OF THE BUILDING AND EXTENDED THROUGH THE ROOF.
  7. THE CHAMBER VENT MUST BE LOCATED AS CLOSE TO THE TOP OF THE TANK AS POSSIBLE.
  8. PRECAST UNITS SHALL MEET OR EXCEED ASTM C-478 STANDARD OF 4,000 PSI.
  9. JOINT SECTIONS ON PRECAST CONCRETE SEPARATORS SHALL USE BUTYL RUBBER JOINT SEALANT PER ASTM C-990.
  10. ALL PIPE PENETRATIONS IN THE SEPARATOR SHALL BE SEALED WITH HYDRAULIC CEMENT ONLY.

INLET	A	B	C
4"	3'-0"	2'-6"	3'-6"
5"	3'-0"	4'-0"	3'-6"
3'-6"	3'-0"	4'-0"	4'-0"
3'-0"	2'-6"	4'-6"	4'-6"
6"	5'-0"	4'-6"	4'-0"
4'-0"	3'-6"	4'-6"	4'-6"
3'-6"	3'-0"	5'-0"	5'-0"
8"	6'-0"	5'-0"	5'-0"
4'-6"	4'-0"	5'-6"	5'-6"
4'-0"	3'-6"	6'-0"	6'-0"
3'-6"	3'-0"	6'-6"	6'-6"



- NOTES:**
1. AREA DRAINS (AD) AND DRAIN CLEANOUTS (CO) SHALL BE HEAVY DUTY PVC.
  2. AREA DRAIN GRATES AND CLEANOUT SOLID COVERS SHALL BE HEAVY DUTY RATED H-20.
  3. WATER-TIGHT CONNECTIONS SHALL MEET ASTM 3212 FOR POLYETHYLENE PIPE.
  4. ALL COMPONENTS SHALL BE AS MANUFACTURED BY NYOPLAST U.S.A., INC. (770-932-2443) OR APPROVED EQUAL.



PROFESSIONAL ENGINEER FOR ALLEN & MAJOR ASSOCIATES, INC.

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274 MADISON AVENUE, SUITE 1801  
NEW YORK, NY 10016

PROJECT:  
**10-26 SOMERSET STREET**  
WINTHROP, MA

PROJECT NO.	2554-01	DATE:	02-13-2019
SCALE:	AS SHOWN	DWG. NAME:	C2554-01
DESIGNED BY:	SJL	CHECKED BY:	CMQ

PREPARED BY:

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environmental consulting • landscape architecture  
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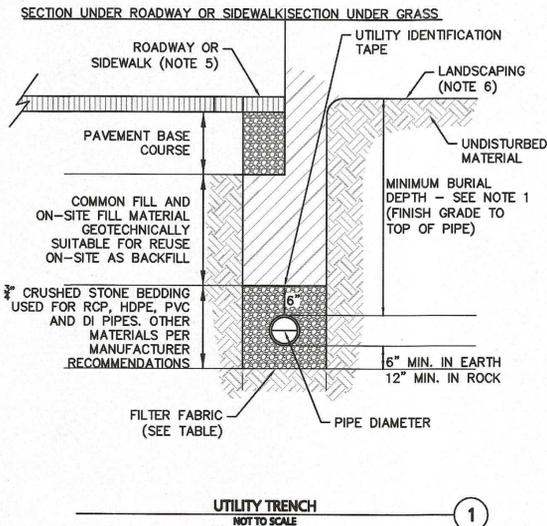
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**NOTES:**

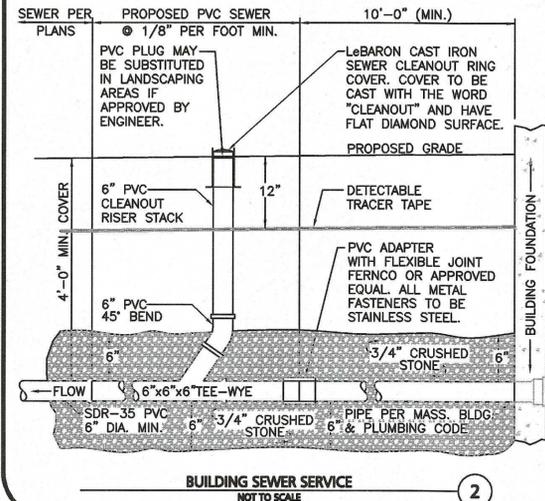
1. MINIMUM BURIAL DEPTH (FINISH GRADE TO TOP OF PIPE)  
GRAVITY PIPE (SEWER & DRAIN) - SEE PLAN OR PROFILE  
PRESSURE PIPE UNDER PAVING - 4'  
PRESSURE PIPE BENEATH UNPAVED - 3'  
WATER PIPE - 5'
2. WHERE BACKFILL IS DESIGNATED AS COMPACTED, THIS MEANS 90 TO 95% STANDARD PROCTOR, AASHTO T-99. ALL FILL PLACED BELOW PIPES AND STRUCTURES MUST MEET THIS REQUIREMENT.
3. TRENCHES WITHIN PUBLIC RIGHT OF WAY MAY REQUIRE FLOWABLE FILL. VERIFY WITH MUNICIPAL ENGINEER.
4. WHERE WASTE FILLS ARE ENCOUNTERED AT SUBGRADE LEVEL FOR NEW UTILITIES, THE FILL SHOULD BE OVER-EXCAVATED, THE SUBGRADE SHOULD BE RE-COMPACTED, AND BACKFILL CONSISTING OF PIPE BEDDING MATERIAL, CRUSHED STONE OR OTHER SUITABLE GRANULAR FILL SHOULD BE PLACED TO A SUFFICIENT DEPTH TO CREATE A FIRM AND STABLE SUBGRADE (TYPICALLY 12 TO 18 INCHES OVER-EXCAVATION).
5. REFER TO PAVING, CURBS, WALKS AND DRIVEWAY DETAILS.
6. REFER TO LANDSCAPING DETAILS.

FILTER FABRIC USE

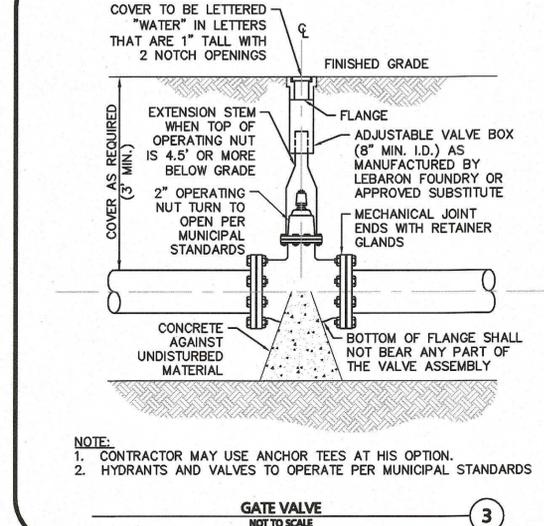
	SOIL TYPE	
	SILT OR CLAY	GRANULAR SOIL
ABOVE GROUND WATER	FILTER FABRIC NOT REQUIRED	FILTER FABRIC NOT REQUIRED
BELOW GROUND WATER	FILTER FABRIC REQUIRED	FILTER FABRIC NOT REQUIRED



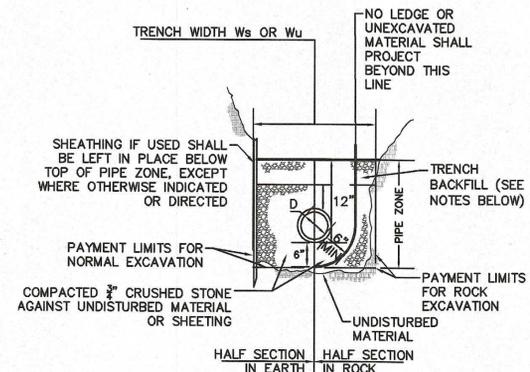
**UTILITY TRENCH**  
NOT TO SCALE



**BUILDING SEWER SERVICE**  
NOT TO SCALE



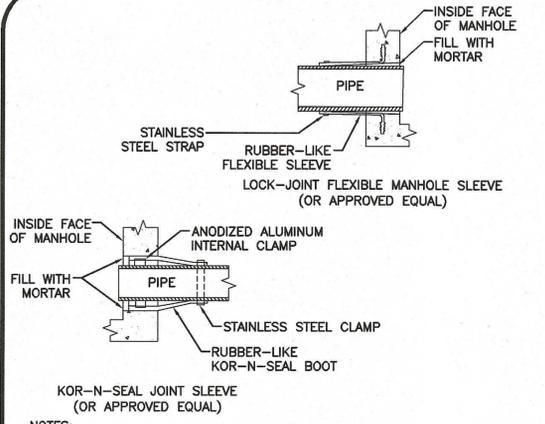
**GATE VALVE**  
NOT TO SCALE



**NOTES:**

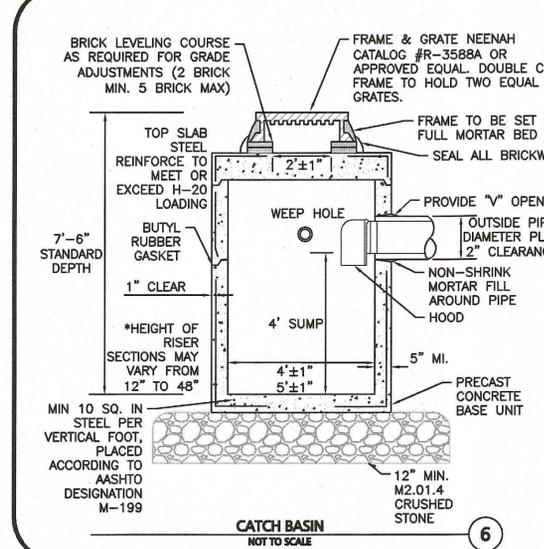
1. TRENCH BACKFILL TO BE USED WITHIN THE RIGHT-OF-WAY SHALL CONSIST OF EITHER GRAVEL BORROW MEETING MHD SPECIFICATION M1.03.0, TYPE "B" OR PROCESSED GRAVEL BORROW FOR SUBBASE MEETING MHD SPECIFICATION M1.03.1.
2. WHERE THE REMOVAL OF 100 SQUARE FEET OR LESS OF ASPHALT IS REQUIRED WITHIN THE RIGHT OF WAY, THEN THE TRENCH BACKFILL MATERIAL SHALL CONSIST OF CONTROLLED DENSITY FILL MEETING MHD SPECIFICATION M4.08.0, TYPE "1E" OR "2E".
3. TRENCH BACKFILL MATERIAL TO BE USED OF THE RIGHT-OF-WAY MAY CONSIST OF MATERIAL GENERATED DURING EXCAVATIONS PROVIDED ALL STONES GREATER THAN 4" ARE REMOVED PRIOR TO PLACEMENT AND COMPACTION
4. GRANULAR TRENCH BACKFILL MATERIAL USED WITHIN THE RIGHT-OF-WAY SHALL BE PLACED IN MAXIMUM 6" LIFTS AND MECHANICALLY COMPACTED TO A MINIMUM OF 95% OF THE MATERIAL'S MAXIMUM DRY DENSITY AND TO 90% ELSEWHERE AS DETERMINED BY ASTM D 1557.

**SEWER TRENCH**  
NOT TO SCALE

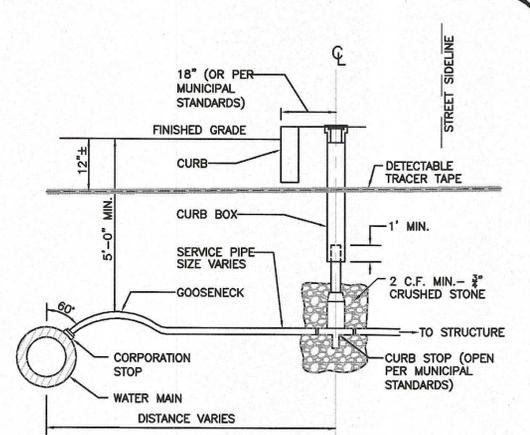


- NOTES:**
1. PIPE TO MANHOLE JOINTS SHALL BE ONLY AS APPROVED BY THE ENGINEER AND IN GENERAL, WILL DEPEND FOR WATER TIGHTNESS UPON ELASTOMETRIC SEALANT
  2. NON-SHRINKING MORTAR SHALL ONLY BE USED WHERE SPECIFICALLY APPROVED BY THE ENGINEER.

**PIPE CONNECTIONS TO SEWER MANHOLE**  
NOT TO SCALE

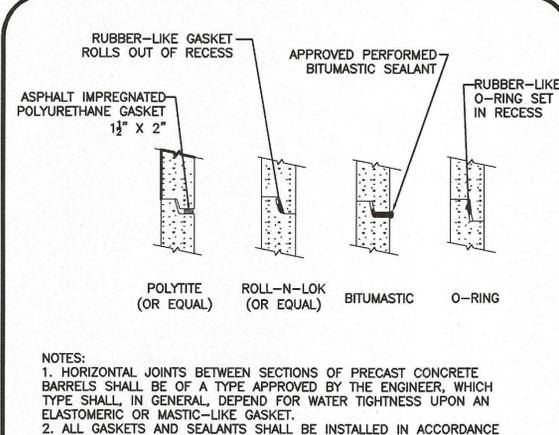


**CATCH BASIN**  
NOT TO SCALE



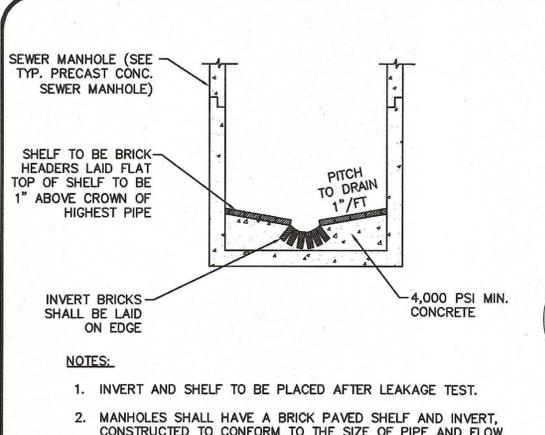
- NOTE:**  
WATER SERVICES LARGER THAN 1" ARE TO BE RESTRAINED TO WATER MAIN WITH APPROVED SADDLE.

**TYPICAL WATER SERVICE CONNECTION**  
NOT TO SCALE



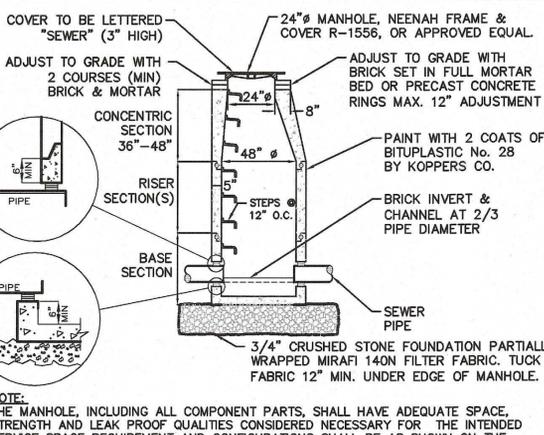
- NOTES:**
1. HORIZONTAL JOINTS BETWEEN SECTIONS OF PRECAST CONCRETE BARRELS SHALL BE OF A TYPE APPROVED BY THE ENGINEER, WHICH TYPE SHALL, IN GENERAL, DEPEND FOR WATER TIGHTNESS UPON AN ELASTOMERIC OR MASTIC-LIKE GASKET.
  2. ALL GASKETS AND SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
  3. FOR BITUMASTIC TYPE JOINTS THE AMOUNT OF SEALANT SHALL BE SUFFICIENT TO FILL AT LEAST 75% OF THE JOINT CAVITY.

**SEWER MANHOLE JOINTING METHOD**  
NOT TO SCALE



- NOTES:**
1. INVERT AND SHELF TO BE PLACED AFTER LEAKAGE TEST.
  2. MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT, CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. AT CHANGES IN DIRECTION, THE INVERTS SHALL BE LAID OUT IN CURVES OF THE LONGEST RADIUS POSSIBLE TANGENT TO THE CENTER LINE OF THE HIGHEST PIPE CROWN AND SLOPE TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF CEMENT CONCRETE OR BRICK IN MORTAR.

**PRECAST CONCRETE SEWER MANHOLE (SMH)**  
NOT TO SCALE



- NOTE:**  
THE MANHOLE, INCLUDING ALL COMPONENT PARTS, SHALL HAVE ADEQUATE SPACE, STRENGTH AND LEAK PROOF QUALITIES CONSIDERED NECESSARY FOR THE INTENDED SERVICE SPACE REQUIREMENT AND CONFIGURATIONS SHALL BE AS SHOWN ON THE DRAWING. MANHOLES MAY BE AN ASSEMBLY OR PRECAST SECTIONS, WITH OR WITHOUT STEEL REINFORCEMENT, WITH ADEQUATE JOINTING OR CONCRETE CAST MONOLITHICALLY IN PLACE WITH OR WITHOUT REINFORCEMENT. IN ANY APPROVED MANHOLE, THE COMPLETE STRUCTURE SHALL BE OF SUCH MATERIAL AND QUALITY AS TO WITHSTAND LOADS OF 8 TONS (H-20 LOADING) WITHOUT FAILURE AND PREVENT LEAKAGE IN EXCESS OF ONE GALLON PER DAY PER VERTICAL FOOT OF MANHOLE.

**PRECAST CONCRETE SEWER MANHOLE (SMH)**  
NOT TO SCALE



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PREPARED BY:

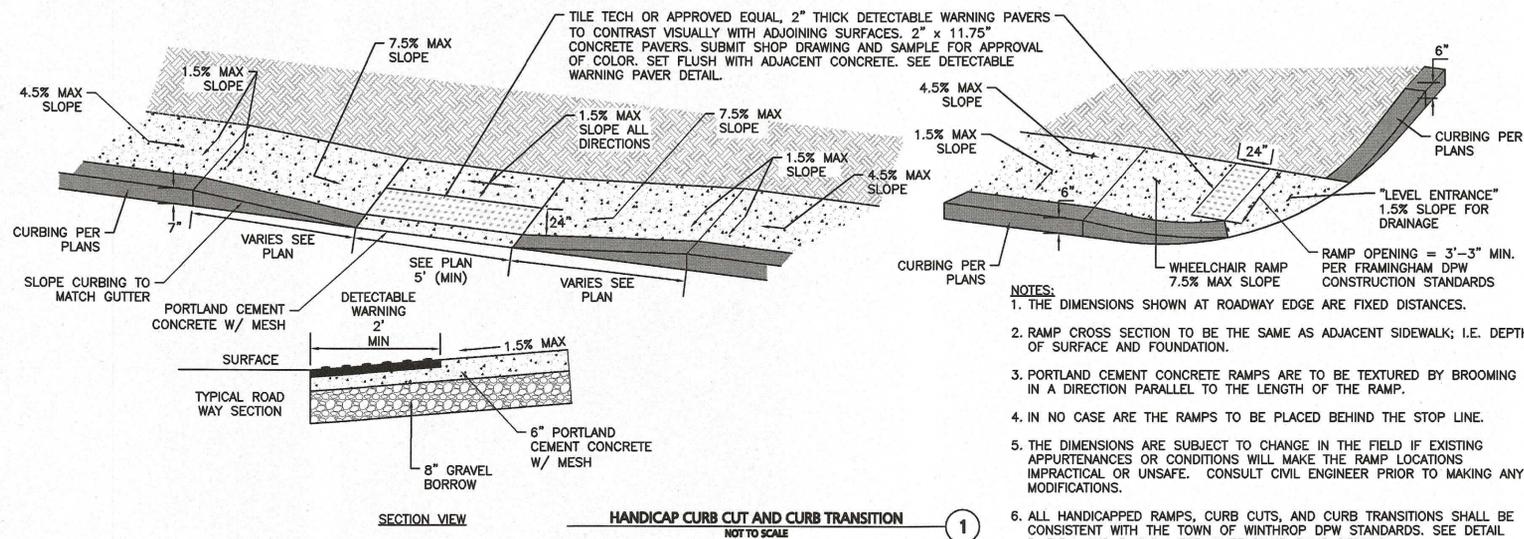
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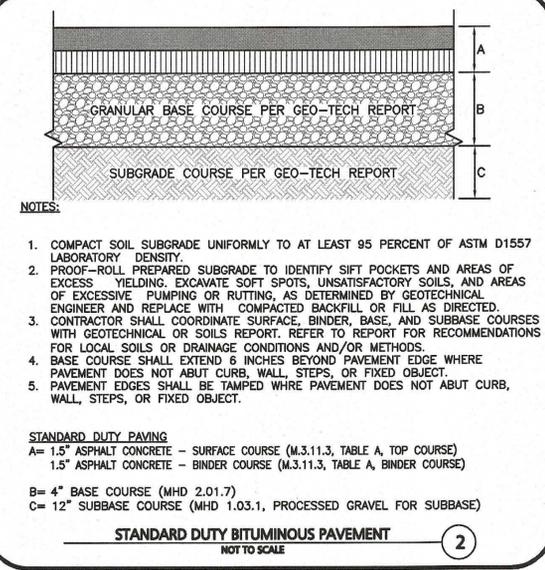
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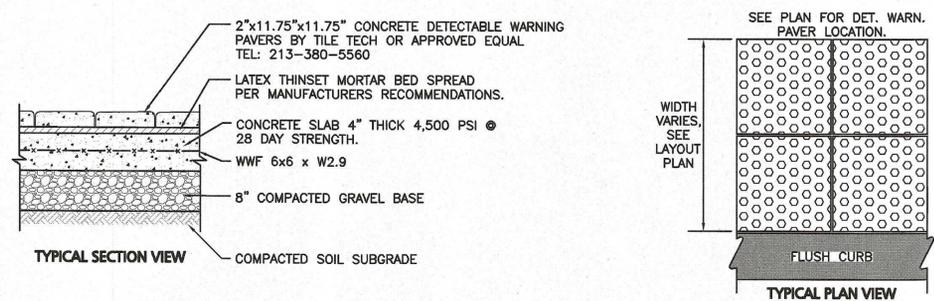




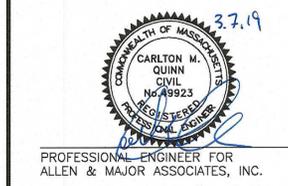
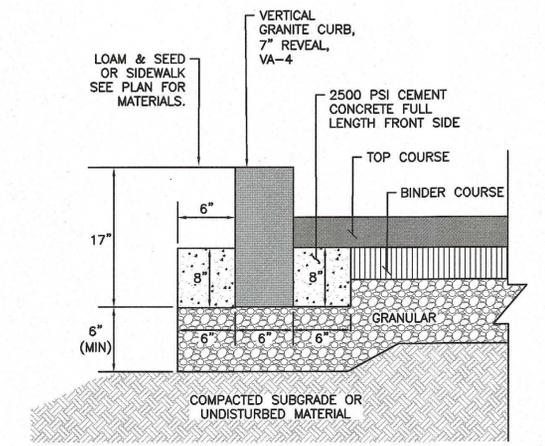
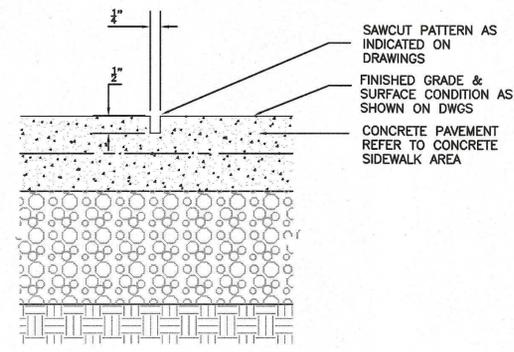
- NOTES:**
1. THE DIMENSIONS SHOWN AT ROADWAY EDGE ARE FIXED DISTANCES.
  2. RAMP CROSS SECTION TO BE THE SAME AS ADJACENT SIDEWALK; I.E. DEPTH OF SURFACE AND FOUNDATION.
  3. PORTLAND CEMENT CONCRETE RAMPS ARE TO BE TEXTURED BY BROOMING IN A DIRECTION PARALLEL TO THE LENGTH OF THE RAMP.
  4. IN NO CASE ARE THE RAMPS TO BE PLACED BEHIND THE STOP LINE.
  5. THE DIMENSIONS ARE SUBJECT TO CHANGE IN THE FIELD IF EXISTING APPURTENANCES OR CONDITIONS WILL MAKE THE RAMP LOCATIONS IMPRACTICAL OR UNSAFE. CONSULT CIVIL ENGINEER PRIOR TO MAKING ANY MODIFICATIONS.
  6. ALL HANDICAPPED RAMPS, CURB CUTS, AND CURB TRANSITIONS SHALL BE CONSISTENT WITH THE TOWN OF WINTHROP DPW STANDARDS. SEE DETAIL R-5.3.1 AND R-5.3.4 FOR WHEELCHAIR RAMP DETAILS.



- NOTES:**
1. COMPACT SOIL SUBGRADE UNIFORMLY TO AT LEAST 95 PERCENT OF ASTM D1557 LABORATORY DENSITY.
  2. PROOF-ROLL PREPARED SUBGRADE TO IDENTIFY SIFT POCKETS AND AREAS OF EXCESS YIELDING. EXCAVATE SOFT SPOTS, UNSATISFACTORY SOILS, AND AREAS OF EXCESSIVE PUMPING OR RUTTING, AS DETERMINED BY GEOTECHNICAL ENGINEER AND REPLACE WITH COMPACTED BACKFILL OR FILL AS DIRECTED.
  3. CONTRACTOR SHALL COORDINATE SURFACE, BINDER, BASE, AND SUBBASE COURSES WITH GEOTECHNICAL OR SOILS REPORT. REFER TO REPORT FOR RECOMMENDATIONS FOR LOCAL SOILS OR DRAINAGE CONDITIONS AND/OR METHODS.
  4. BASE COURSE SHALL EXTEND 6 INCHES BEYOND PAVEMENT EDGE WHERE PAVEMENT DOES NOT ABUT CURB, WALL, STEPS, OR FIXED OBJECT.
  5. PAVEMENT EDGES SHALL BE TAMPED WHERE PAVEMENT DOES NOT ABUT CURB, WALL, STEPS, OR FIXED OBJECT.
- STANDARD DUTY PAVING**  
A= 1.5" ASPHALT CONCRETE - SURFACE COURSE (M.3.11.3, TABLE A, TOP COURSE)  
1.5" ASPHALT CONCRETE - BINDER COURSE (M.3.11.3, TABLE A, BINDER COURSE)  
B= 4" BASE COURSE (MHD 2.01.7)  
C= 12" SUBBASE COURSE (MHD 1.03.1, PROCESSED GRAVEL FOR SUBBASE)



- NOTES:**
1. CONCRETE SLAB SHALL BE SLOPED 1.5% CROSS PITCH MAX TO PROVIDE COMPLETE SURFACE DRAINAGE. SEE GRADING PLAN & HANDICAP CURB CUT / CURB TRANSITION DETAIL.
  2. SLAB TO HAVE STEEL TROWEL AND FINE BROOM FINISH. DO NOT USE CURING COMPOUNDS. CONTRACTOR TO ADD EXPANSION JOINTS AND PREMOLDED FILLER AT EDGE OF TILES AND ADJACENT MATERIAL.
  3. SET TILES FLUSH WITH ADJACENT MATERIALS.
  4. SUBMIT SHOP DRAWINGS OF TILES AND SAMPLE FOR APPROVAL OF COLOR TO OWNER / ARCH.
  5. INSTALL DETECTABLE WARNING PAVERS PER MANUFACTURER'S RECOMMENDATIONS OR DESIGN ENGINEER.
  6. ALL DET. WARN. PAVERS SHALL COMPLY WITH ADA REGULATIONS & TOWN OF WINTHROP CONSTRUCTION STANDARDS.
  7. ALL DETECTABLE WARNING PAVERS SHALL BE BRICK RED IN COLOR.
- DETECTABLE WARNING PAVERS**  
NOT TO SCALE



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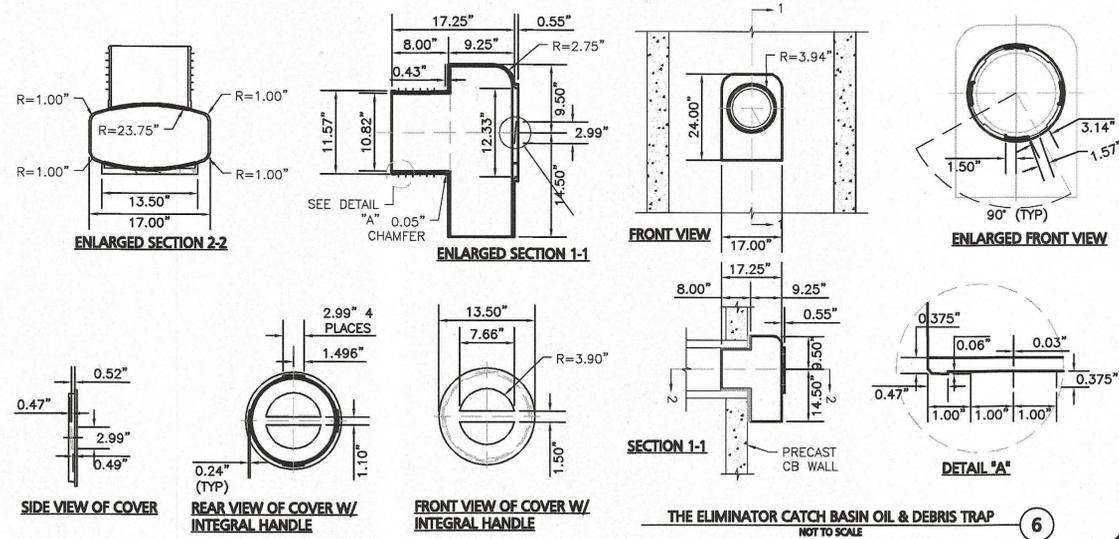
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