



TOWN OF MANCHESTER WATER AND SANITARY SEWER CONSTRUCTION NOTES:

1. A PRECONSTRUCTION MEETING WITH TOWN STAFF IS REQUIRED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR ANY CONSTRUCTION ACTIVITY.
3. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES DEPICTED ON THESE DRAWINGS ARE FROM THE BEST AVAILABLE SOURCES. SUCH INFORMATION IS FURNISHED ONLY FOR THE INFORMATION OF THE CONTRACTOR AND IS NOT GUARANTEED.
4. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 AT LEAST 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.
5. THE LOCATIONS OF ALL PROPOSED UNDERGROUND UTILITIES (I.E. GAS, TELEPHONE, CABLE TV, ELECTRIC, ETC.) SHALL BE APPROVED BY THE TOWN PRIOR TO CONSTRUCTION.
6. ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST REVISION OF THE TOWN OF MANCHESTER "PUBLIC IMPROVEMENT STANDARDS".
7. AT ALL UTILITY CROSSINGS A MINIMUM 18" VERTICAL SEPARATION DISTANCE SHALL BE PROVIDED FROM WATER OR SEWER UTILITIES UNLESS INDICATED OTHERWISE ON THE PLANS OR AS APPROVED BY THE TOWN. A CONCRETE CRADLE SHALL BE UTILIZED IF A MINIMUM VERTICAL SEPARATION DISTANCE OF LESS THAN OR EQUAL TO 12" IS ALLOWED BY THE TOWN. A MINIMUM HORIZONTAL SEPARATION DISTANCE OF 10' SHALL BE PROVIDED BETWEEN WATER AND SEWER UTILITIES. PROVIDE 5' MINIMUM SEPARATION DISTANCE BETWEEN WATER OR SEWER UTILITIES AND GAS MAINS. PROVIDE 5' MINIMUM SEPARATION DISTANCE BETWEEN WATER OR SEWER UTILITIES AND STORM DRAIN LINES. PROVIDE 2' MINIMUM SEPARATION DISTANCE BETWEEN WATER MAINS AND CATCH BASINS.
8. THRUST RESTRAINT FOR ALL MECHANICAL JOINTS AT VALVES AND FITTINGS SHALL BE PROVIDED BY MEANS OF DUCTILE IRON RESTRAINER GLANDS, WEDGE-ACTION JOINT RESTRAINERS OR GASKET-TYPE JOINT RESTRAINT SHALL BE USED TO RESTRAIN ALL DUCTILE IRON PIPE JOINTS FOR A DISTANCE OF AT LEAST 27 FEET ON EACH SIDE OF ALL VALVES OR FITTINGS. NO MORE THAN ONE PIPE JOINT SHALL BE ALLOWED WITHIN THAT 27 FEET OF PIPE.
9. ALL VALVES BOXES AND CURB BOXES SHALL BE ADJUSTED TO THE FINAL GRADES. ALL CURB BOXES SHALL BE LOCATED IN GRASSY AREAS AT THE STREET LINE FRONTING THE PROPERTY UNLESS INDICATED OTHERWISE ON THE PLANS.
10. ALL VALVES AND HYDRANTS SHALL BE LEFT-OPENING (COUNTER CLOCKWISE). THE CONTRACTOR SHALL VERIFY THE DIRECTION OF OPENING PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. ALL MAIN LINE AND AUXILIARY VALVES (4" TO AND INCLUDING 12") SHALL BE RESILIENT WEDGE GATE VALVES.
11. ALL WATER MAINS SHALL HAVE 4 1/2 FEET OF COVER UNLESS OTHERWISE INDICATED ON THE PLANS. COVER LESS THAN OR IN EXCESS OF 4 1/2 FEET SHALL BE ALLOWED ONLY AS INDICATED ON THE PLANS OR APPROVED BY THE TOWN. WATER MAINS HAVING COVER LESS THAN 4 1/2 FEET SHALL BE INSULATED.
12. ALL EXISTING WATER OR SANITARY SEWER SERVICES THAT WILL NOT BE REUSED AS PART OF THE FUTURE DEVELOPMENT SHALL BE ABANDONED AT THE MAIN IN ACCORDANCE WITH PROCEDURES SET FORTH BY THE TOWN.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY HANDLING OF SANITARY SEWAGE FLOWS DURING CONSTRUCTION. METHODS OF HANDLING SEWAGE FLOWS SHALL BE APPROVED BY THE TOWN.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ANY TEMPORARY THRUST RESTRAINT THAT MAY BE REQUIRED.
15. WHEN DOMESTIC OR FIRE WATER SERVICES GREATER THAN OR EQUAL TO 4" IN DIAMETER AS PROPOSED TO BE CONNECTED TO THE WATER MAIN USING A TAPPING SLEEVE AND VALVE A WET TAP CONTRACTOR PREAPPROVED BY THE TOWN SHALL BE USED.

STORMWATER TREATMENT SYSTEM NOTES (BARRACUDA S4 HYDRODYNAMIC SEPARATOR WQU):

- EACH STORMWATER TREATMENT SYSTEM UNIT MUST BE DESIGNED TO REMOVE A MINIMUM OF 80% OF THE TOTAL SUSPENDED SOLIDS FROM THE WATER QUALITY FLOW OF 0.868 CFS WITH INTERNAL BYPASS OF THE 10-YEAR DESIGN STORM FLOW OF 10.43 CFS. THE SYSTEM MUST BE INSPECTED AND CLEANED EVERY SIX (6) MONTHS OR PER THE MANUFACTURERS' RECOMMENDATION, WHICHEVER IS MORE FREQUENT. SHOP DRAWINGS OF THE PROPOSED SYSTEM MUST FIRST BE APPROVED BY THE DESIGN ENGINEER THEN SUBMITTED TO THE TOWN FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWING SUBMITTALS MUST INCLUDE:
- "TREATED" FLOW FOR THE SPECIFIED SYSTEM AND MODEL, WHICH MUST EQUAL OR EXCEED THE WATER QUALITY FLOW
 - "CONVEYED" FLOW FOR THE SPECIFIED SYSTEM AND MODEL, WHICH MUST EQUAL OR EXCEED THE DESIGN STORM FLOW
 - CALCULATIONS OR DOCUMENTATION VERIFYING THAT 80% (MIN.) OF THE AVERAGE ANNUAL TOTAL SUSPENDED SOLIDS WILL BE REMOVED FROM THE WATER QUALITY FLOW
 - CALCULATIONS OF THE HYDRAULIC GRADE LINE ELEVATIONS FOR THE DESIGN STORM EVENT IN THE FIRST STRUCTURE LOCATED UPSTREAM OF THE SYSTEM AND ANY OTHER CRITICAL LOCATIONS
 - ORIENTATION OF THE SYSTEM IN PLAN VIEW WITH RESPECT TO THE APPROVED SITE PLAN (IF DIFFERENT THAN SHOWN ON THE APPROVED PLANS)
 - PROPOSED SIZE AND ELEVATION OF CRITICAL WEIR, ORIFICE, PIPE INVERT ELEVATIONS, AND OTHER DESIGN ELEMENTS THAT CORRESPOND TO THE HYDRAULIC CHARACTERISTICS OF THE SYSTEM

PROPERTY OWNER:
BUCKLAND MANCHESTER LLC
7700 S FOREST BEND DRIVE
COTTONWOOD HEIGHTS, UT 84211

APPLICANT:
SCOTT TRANSPORTATION
C/O ANDY SCOTT
485 NIEDERWERFER ROAD
SOUTH WINDSOR, CT 06074
800-993-0063

REFERENCES:
THIS PLAN REFERS TO THE FOLLOWING:
1. PLAN ENTITLED "PROPERTY & TOPOGRAPHIC SURVEY, 40 COMMERCE ROAD, MANCHESTER, CONNECTICUT" DATED 01/06/2021 PREPARED BY DESIGN PROFESSIONALS, INC.

UTILITY PLAN NOTES:
1. "CALL BEFORE YOU DIG" - CONTRACTOR SHALL NOTIFY UTILITY COMPANIES OF PENDING EXCAVATION BY CALLING 811 AT LEAST 3 WORKING DAYS PRIOR TO BEGINNING EXCAVATION.
2. THIS PLAN SHALL BE USED FOR UTILITY PURPOSES ONLY
3. REFER TO NOTES SHEET FOR UTILITY NOTES

APPROVED
PLANNING AND ZONING
COMMISSION
MANCHESTER, CT
DATE: _____
SIGNED: _____



UTILITIES PLAN

SHEET
C-UT1
SHEET 4 OF 12

REVISIONS		DATE	BY	REASON
1	4/16/2021	REM		REVISED PER TOWN COMMENTS

SCOTT TRANSPORTATION
SITE PLAN APPLICATION
40 COMMERCE ROAD
MANCHESTER, CONNECTICUT
PARCEL No. 124500040

PROJECT NO.
4633
DATE
03/12/21
DESIGNER
REM
CHECKER
REM
APPROVED BY
C/O ANDY SCOTT
C/O MR. ANDY SCOTT
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