







NORTH

Design Consultants, Inc.  
CIVIL ENGINEERS and LAND SURVEYORS  
123 Middlesex Avenue, Suite 20  
Somerville, MA 02145  
617-776-3350p 617-776-7710f

PROJECT TEAM

PROJECT INFO

REV DESCRIPTION DATE

STAMP:

# GRADING & UTILITIES PLAN

SHEET NAME:

# C3.0

SHT NO:

DR BY: RB

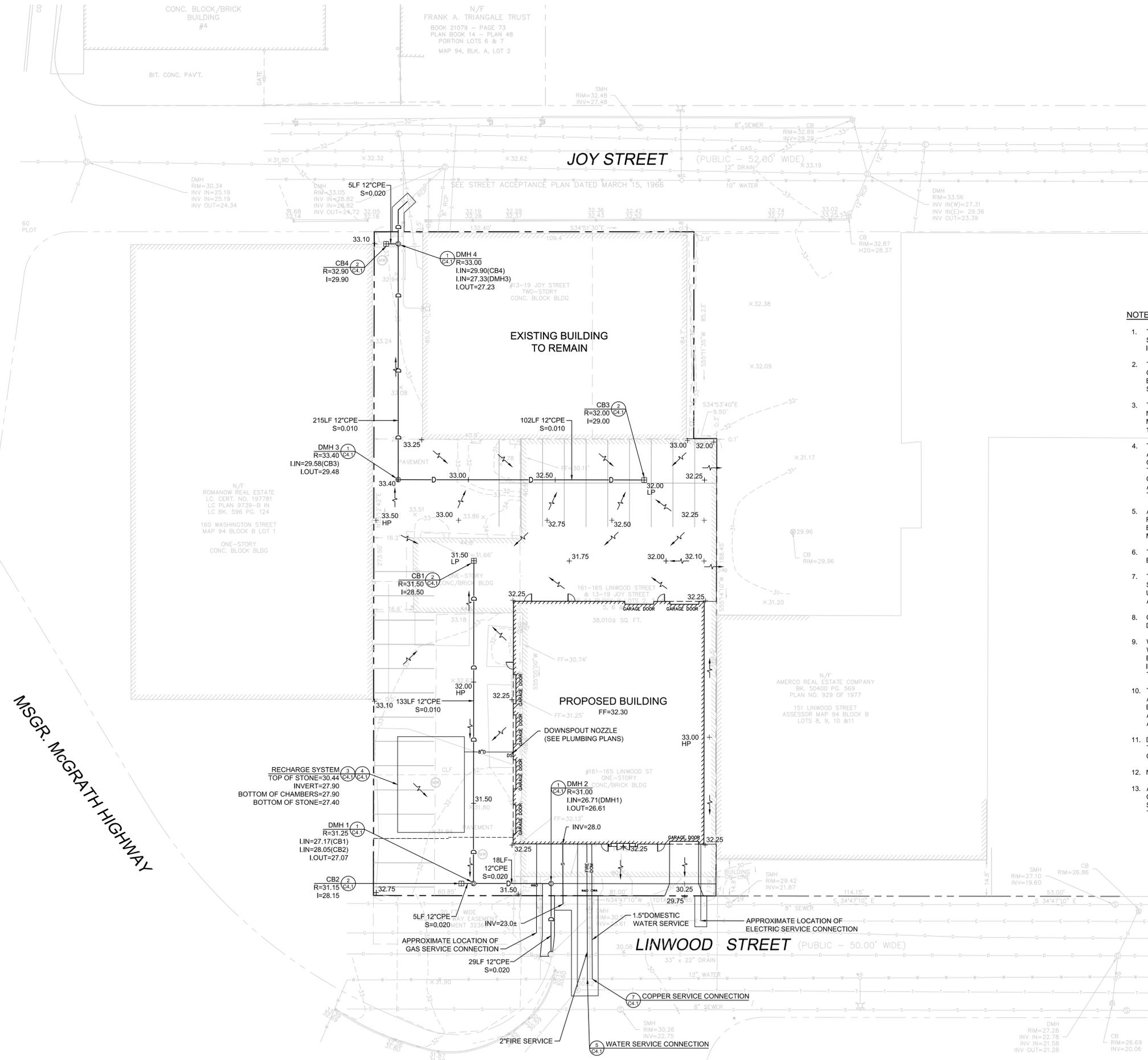
CHK BY: WK

PROJ NO: 2014-106.00

DATE: 9.10.15

SCALE: 1"=20'

WASHINGTON STREET  
(PUBLIC - VARIABLE WIDTH)



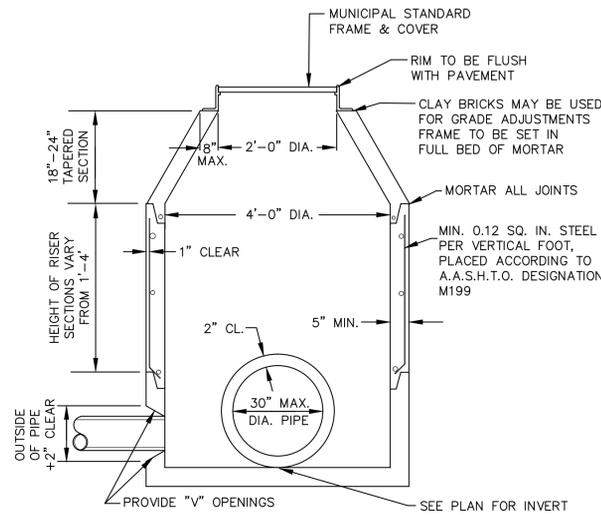
### NOTES

1. THE LOCATION OF AND SIZE OF BURIED UTILITIES ARE THE RESULT OF SURFACE EVIDENCE AS LOCATED BY FIELD SURVEY BY DESIGN CONSULTANTS INC., PLANS OF RECORD & PLANS FROM RESPECTIVE UTILITY COMPANIES.
2. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION AND SIZE OF ALL UTILITIES WHICH MAY EXIST AT THIS TIME INSIDE OR OUTSIDE OF EXISTING OR PROPOSED BUILDINGS, ON THE SUBJECT PROPERTY, WITHIN THE STREET ROW, OR ON ABUTTING LOTS.
3. THE CITY OF SOMERVILLE MUNICIPAL UTILITIES (WATER, SEWER, & DRAIN) ARE NOT PART OF DIG-SAFE. CONTACT THE CITY OF SOMERVILLE FOR THE MARKING OF SOMERVILLE MUNICIPAL UTILITIES. CONTACT DIG-SAFE AT 1-888-344-7233 OR 1-800-322-4844 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
4. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL FIELD VERIFY THE SIZE AND 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.
5. ALL UTILITIES SHOWN ON THIS SITE ARE TO THE EXTERIOR OF THE BUILDING FOUNDATION ONLY. UTILITIES THROUGH THE FOUNDATION AND INSIDE THE BUILDING ARE THE RESPONSIBILITY OF THE MECHANICAL ENGINEER. SEE MECHANICAL ENGINEERING PLANS.
6. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND RECORDING THE EXACT LOCATION OF ALL PROPOSED UTILITY CONNECTIONS.
7. THE CONTRACTOR SHALL SUPPLY ALL PIPING FOR THE UTILITY SERVICES AND SHALL SUPPLY ALL ASSOCIATED APPURTENANCES, FITTING AND VALVES UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL PERFORM ALL WET AND DRY TAPS AS PART OF HIS/HER CONTRACT.
8. CITY OF SOMERVILLE RESERVES THE RIGHT TO INSPECT ALL FACILITIES DISCHARGING TO THE CITY OF SOMERVILLE DRAIN AND/OR SEWER SYSTEMS.
9. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION AND SIZE OF THE EXISTING UTILITY SHALL BE INVESTIGATED WITHOUT DELAY BY THE CONTRACTOR, AND THE INFORMATION AND/OR ANY DISCREPANCIES WITH THE PLAN SHALL REPORT TO THE ENGINEER IMMEDIATELY FOR RESOLUTION OF THE CONFLICT.
10. TRENCH AREAS FOR THE CONSTRUCTION OF THE UNDERGROUND UTILITIES ARE TO BE REPATCHED WITH SAME MATERIAL AT THE SAME DEPTH AS THE EXISTING MATERIAL. THE AREAS OF TRENCHING SHALL BE NEATLY SAW-CUT AND THE NEW REPATCHING MATERIAL SHALL BE PROPERLY SEALED IN ACCORDANCE WITH THE CITY OF SOMERVILLE MUNICIPAL STANDARDS.
11. DURING EXCAVATION AND CONSTRUCTION OF PIPES AND STRUCTURES, TRENCHES MUST BE ADEQUATELY BRACED AND PROTECTED AGAINST CAVE-IN.
12. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT.
13. ALL TRENCHES SHALL BE BACKFILLED AT THE END OF THE WORK DAY OR COVERED WITH STEEL PLATES PER 520 CMR 14.00 EXCAVATION AND TRENCH SAFETY. IF STEEL PLATES ARE USED, THE TOTAL LENGTH OF PLATES IN THE TRAVELED WAY SHALL LIMITED TO 50 FEET.

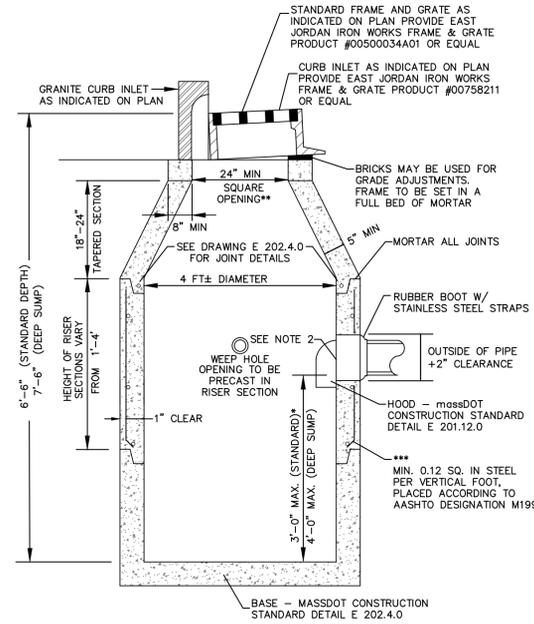








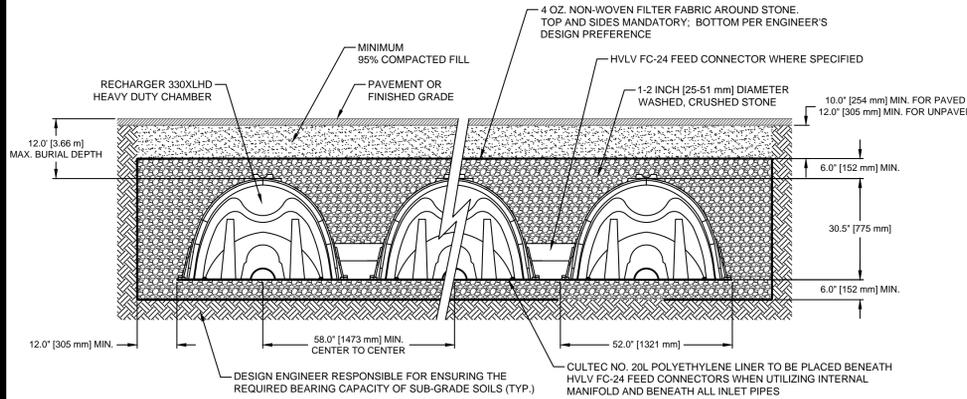
**1 PRECAST CONCRETE DRAIN MANHOLE**  
NOT TO SCALE



\* MINIMUM DEPTH OF SUMP TO BE 2'  
 \*\* WHEN A CURB INLET IS TO BE INSTALLED, THE OPENING IS TO BE 24"±1" X 27"±1"  
 \*\*\* REINFORCING STEEL BASED ON A WALL THICKNESS OF 5"

**NOTES:**  
 1. DETAILS NOT INDICATED ABOVE ARE TO BE SIMILAR TO THOSE SHOWN ON E 201.3.0  
 2. FACE OF PIPE FLUSH OR NOT TO PROJECT MORE THAN 4" FROM FACE OF WALL ALONG CENTERLINE OF PIPE  
 3. FOR DESCRIPTION, MATERIALS AND CONSTRUCTION METHOD, SEE STANDARD SPECIFICATIONS  
 4. ALL CONCRETE TO BE AIR ENTRAINED

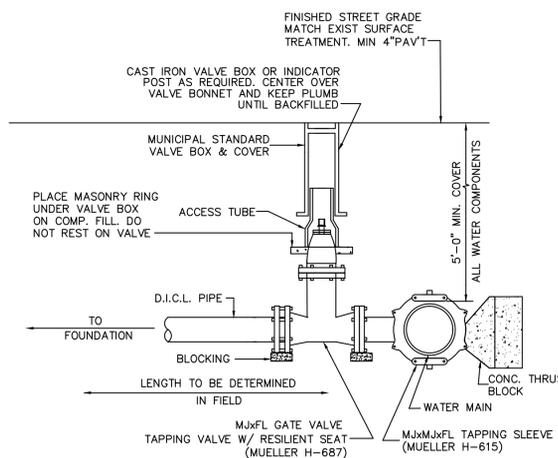
**2 PRECAST CONCRETE CATCH BASIN**  
NOT TO SCALE



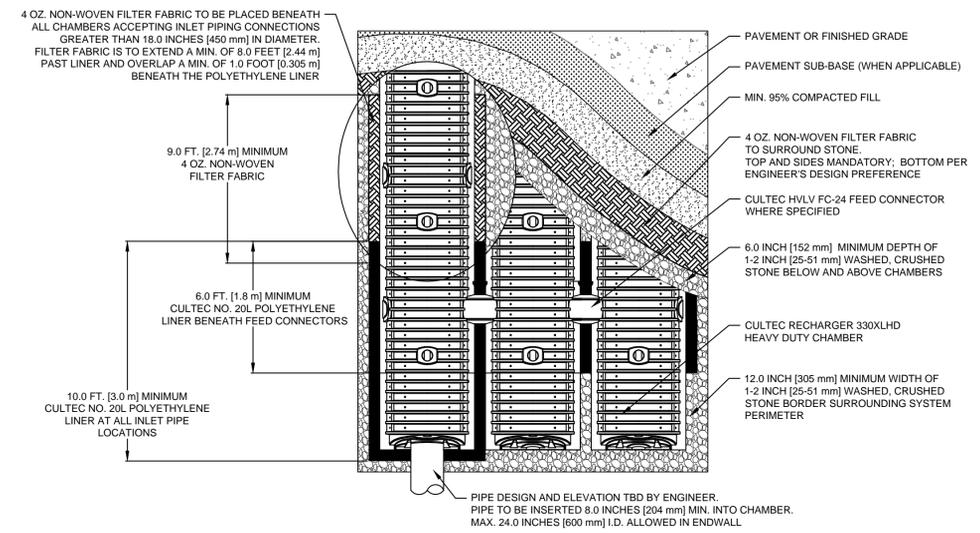
**GENERAL NOTES**  
 RECHARGER 330XLHD BY CULTEC, INC. OF BROOKFIELD, CT. STORAGE PROVIDED = 11.32 CFFIT [1.05 m³/m] PER DESIGN UNIT. REFER TO CULTEC, INC.'S CURRENT RECOMMENDED INSTALLATION GUIDELINES. THE CHAMBER WILL BE DESIGNED TO WITHSTAND TRAFFIC LOADS WHEN INSTALLED ACCORDING TO CULTEC'S RECOMMENDED INSTALLATION INSTRUCTIONS

ALL RECHARGER 330XLHD HEAVY DUTY UNITS ARE MARKED WITH A COLOR STRIPE FORMED INTO THE PART ALONG THE LENGTH OF THE CHAMBER. ALL RECHARGER 330XLHD CHAMBERS MUST BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS

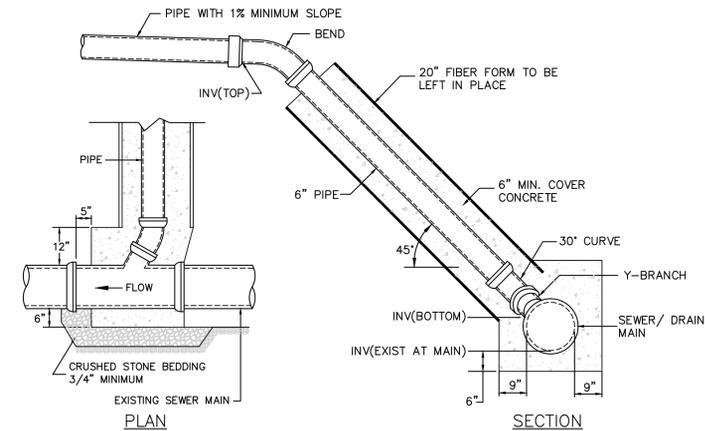
**4 CULTEC RECHARGER 330XLHD HEAVY DUTY CROSS SECTION**  
NOT TO SCALE



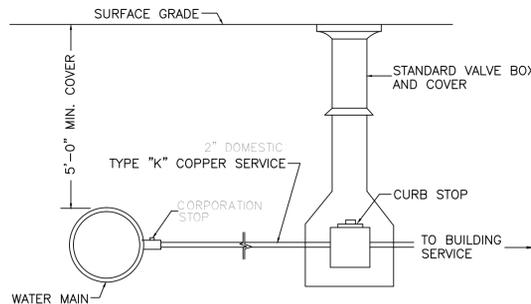
**5 WATER SERVICE CONNECTION**  
NOT TO SCALE



**3 CULTEC RECHARGER 330XLHD HEAVY DUTY PLAN VIEW**  
NOT TO SCALE



**6 SEWER CHIMNEY WITH 45° CONNECTION TO EXISTING MAIN**  
NOT TO SCALE



**7 COPPER SERVICE CONNECTION**  
NOT TO SCALE

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REV	DESCRIPTION	DATE

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**DETAILS II**

SHEET NAME:

**C4.1**

SHT NO:  
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**REGENT**  
ASSOCIATES, INC.  
**ARCHITECTS**  
24 PRIME PKWY, STE 202  
NATICK, MA 01760

508.655.5553 ■ www.regentassociates.com

**NOTE:**  
SOME INFORMATION ON THIS SHEET  
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**Herb Chambers  
Sprinter Boston**

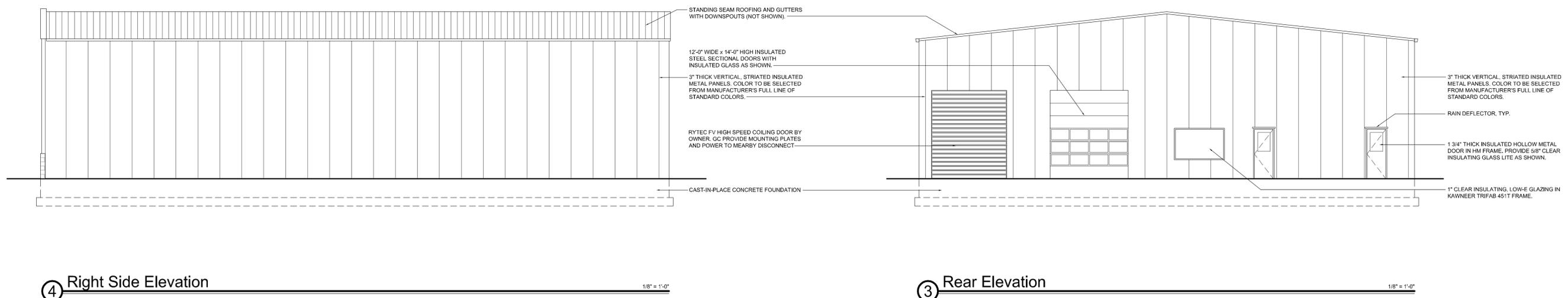
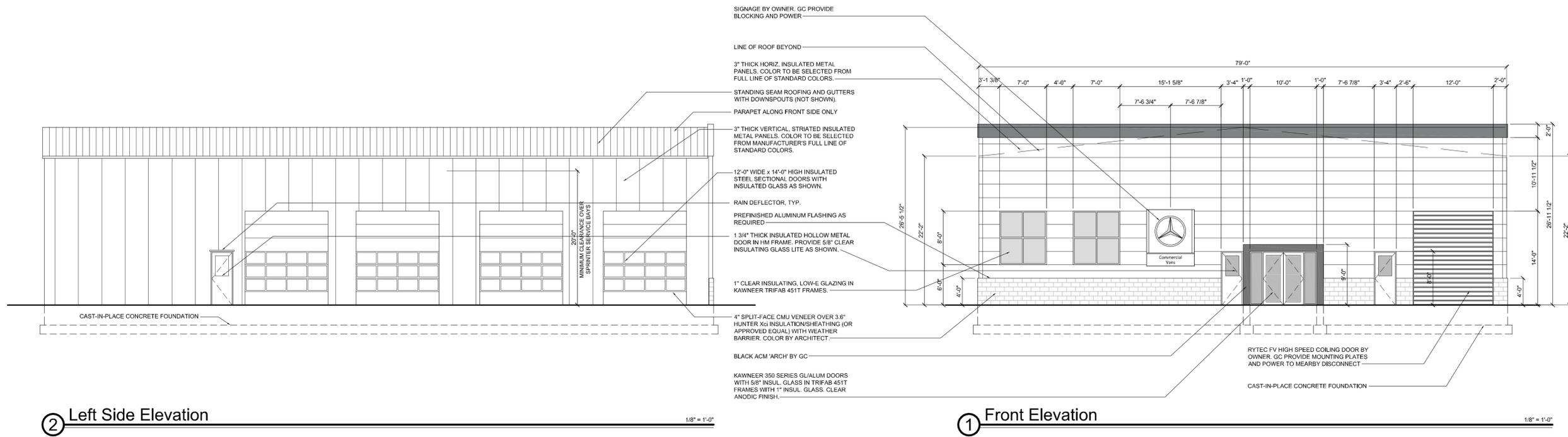
259 McGrath Highway  
Somerville, MA 02143

PROJECT 2014-21  
DRAWN MFR  
SCALE AS NOTED  
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**PROGRESS  
ONLY  
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**Exterior  
Elevations**

**A1.2**





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Project North

**Herb Chambers  
Sprinter Boston**

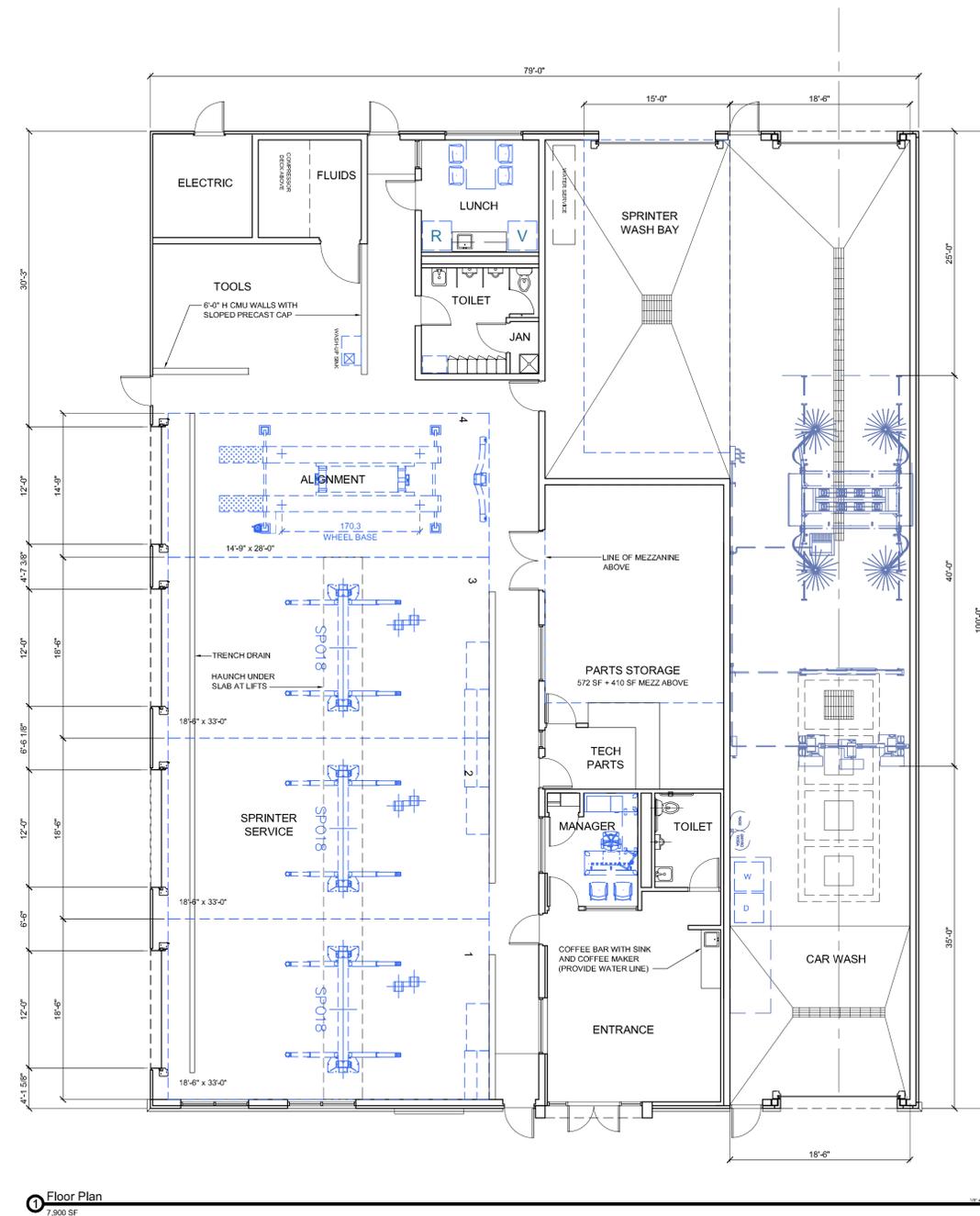
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Floor Plan

**A1.1**



**1** Floor Plan  
7,900 SF