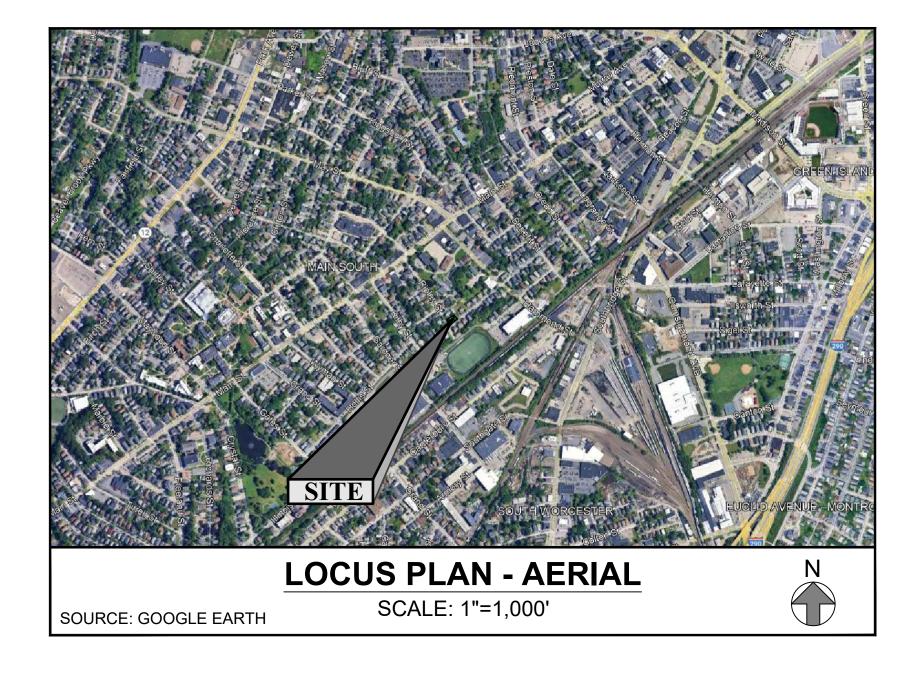
SINGLE-FAMILY DWELLING

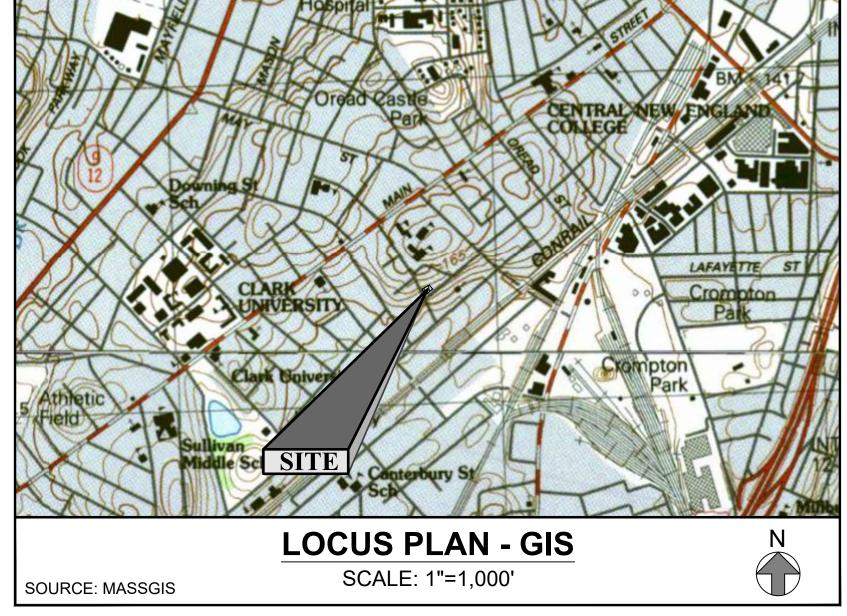
33 RIPLEY STREET
WORCESTER, MA 01610

SHEET INDEX Title **Issue Date** December 20, 2024 **Cover Sheet** C001 December 20, 2024 Site Demo & Sediment and Erosion Control Plan Layout Plan December 20, 2024 Grading & Drainage Plan December 20, 2024 December 20, 2024 **Utilities Plan** December 20, 2024 Site Details - 1 December 20, 2024 Site Details - 2

REFERENCE PLAN INDEX			
No.	Title	Issue Date	
E1	Existing Conditions Plan (B&R Survey, Inc.)	October 10, 2024	
_	Construction Drawings (KMA, LLC)	January 16, 2024	

REVISIONS/ISSUES			
No.	Note	Date	
1	Issued for Permitting	December 20, 2024	





OWNER/APPLICANT

Habitat for Humanity 640 Lincoln Street Worcester, MA 01605

ARCHITECT

KMA, LLC 1 Bridge Street Newton, MA 02458

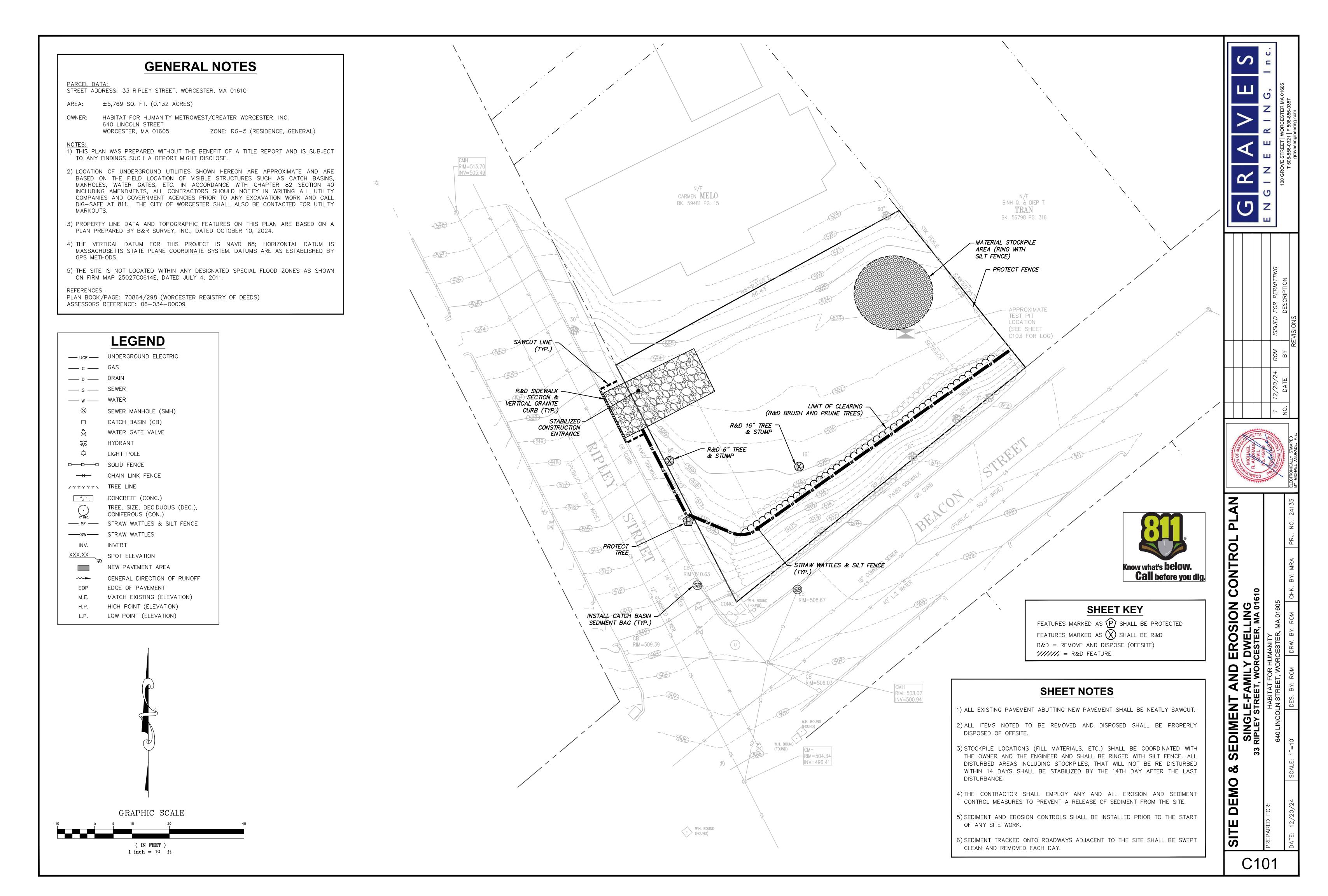
SURVEYOR

B&R Survey, Inc. 100 Grove Street Worcester, MA 01605



100 GROVE STREET | WORCESTER MA 01605 T 508-856-0321 | F 508-856-0357 gravesengineering.com





PROJECT ZONING INFORMATION

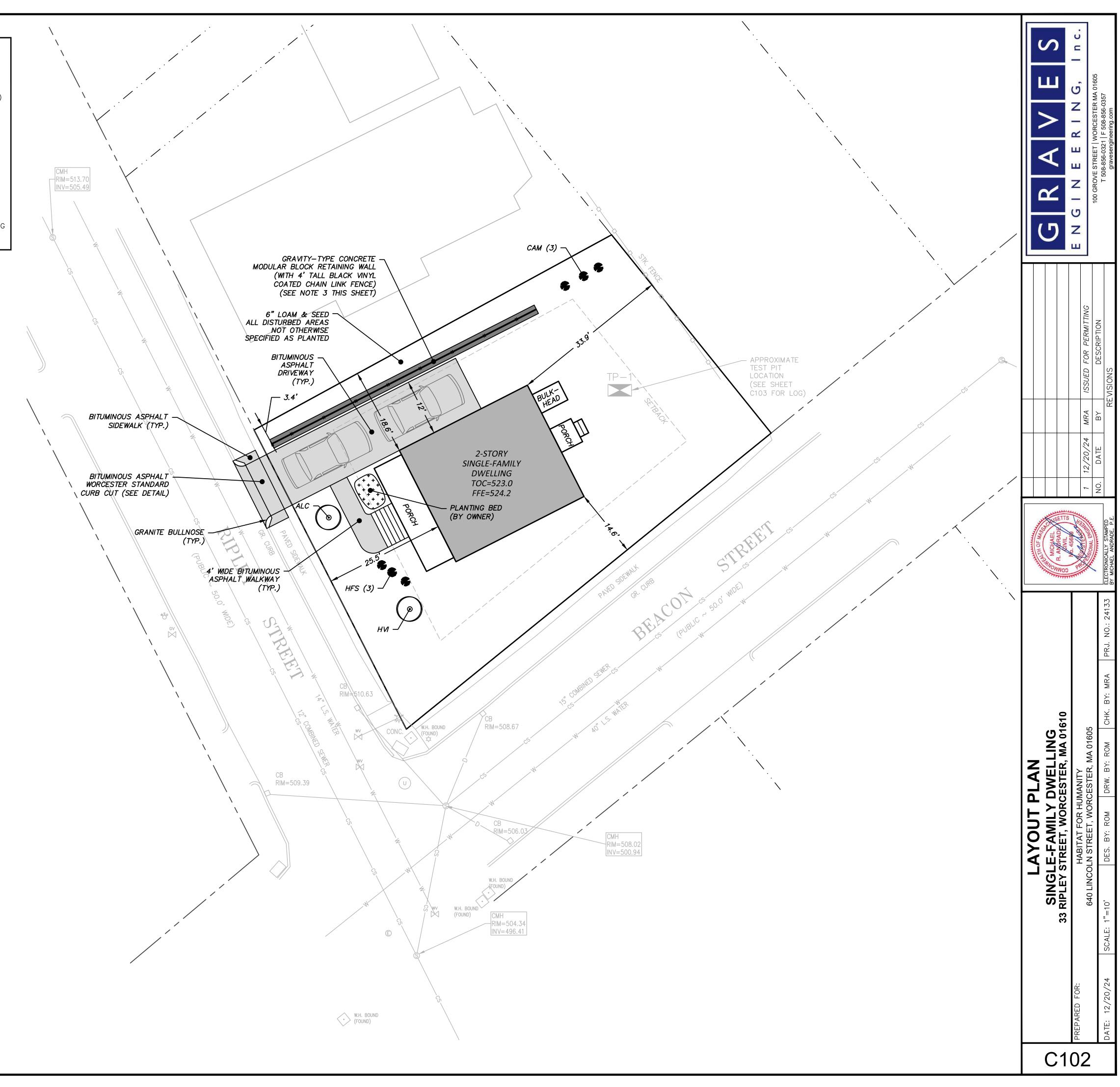
<u>CRITERIA</u>	REQUIRED	<u>EXISTING</u>	<u>PROPOSED</u>
ZONING DISTRICT	RG-5	RG-5	RG-5
MINIMUM LOT AREA	5,000 SQ. FT.	5,769 SQ. FT. (0.132 ACRES)	5,769 SQ. FT. (0.132 ACRES
MINIMUM FRONTAGE	50 FT.	71.25 FT.	71.25 FT.
FRONT SETBACK	15 FT.	N/A	25.5 FT.
SIDE SETBACK (PER ZONE)	8 FT.	N/A	18.6 FT.
SIDE SETBACK (CORNER LOT)	10 FT.	N/A	14.6 FT.
REAR SETBACK	15 FT.	N/A	33.9 FT.
MAXIMUM BLDG. STORIES	2+	N/A	2+
MAXIMUM BLDG. HEIGHT	35 FT.	N/A	29.0 FT.
MAXIMUM F.A.R.	N/A	N/A	N/A
LANDSCAPE PARKING BUFFER	3 FT.	N/A	>3 FT.
FRONT YARD IMPERVIOUS	50% MAX.	N/A	24.4%

ZONING INFORMATION SOURCE: THE ABOVE INFORMATION WAS OBTAINED FROM THE CITY OF WORCESTER ZONING ORDINANCE, ORDAINED IN CITY COUNCIL APRIL 2, 1991, AMENDED THROUGH MAY 9, 2023.

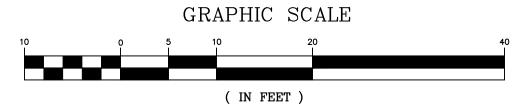
SHEET NOTES

- 1) PROPOSED WALKWAYS AND DRIVEWAYS SHALL MEET FLUSH WITH FINISH GRADES OF EXISTING AND PROPOSED BIT. WALKS, CONCRETE PADS, ETC.
- 2) ALL JOINTS OF EXISTING & PROPOSED BITUMINOUS PAVEMENT SHALL BE SEALED WITH HOT RUBBERIZED ASPHALT JOINT SEALANT AND SANDED.
- 3) THE PROPOSED BLOCK RETAINING WALL SHOWN IS A DEFERRED DESIGN ITEM AS IT MAY REQUIRE A BUILDING PERMIT AND DESIGN BY A STRUCTURAL ENGINEER. IF SO REQUIRED, A COPY OF THE STAMPED RETAINING WALL DESIGN PLAN(S) SHALL BE PROVIDED TO THE WORCESTER DIVISION OF PLANNING & REGULATORY SERVICES OFFICE PRIOR TO OR AT THE SAME TIME AS SUBMITTAL OF THE BUILDING PERMIT APPLICATION. RETAINING WALL LOCATIONS, HEIGHTS, AND CONSTRUCTION MATERIALS SHALL REMAIN AS SHOWN ON THESE PLANS. RETAINING WALL DRAINS SHALL DAYLIGHT TO A POSITIVE OUTFALL OR CONNECT TO THE PROPOSED DRAINAGE SYSTEM.

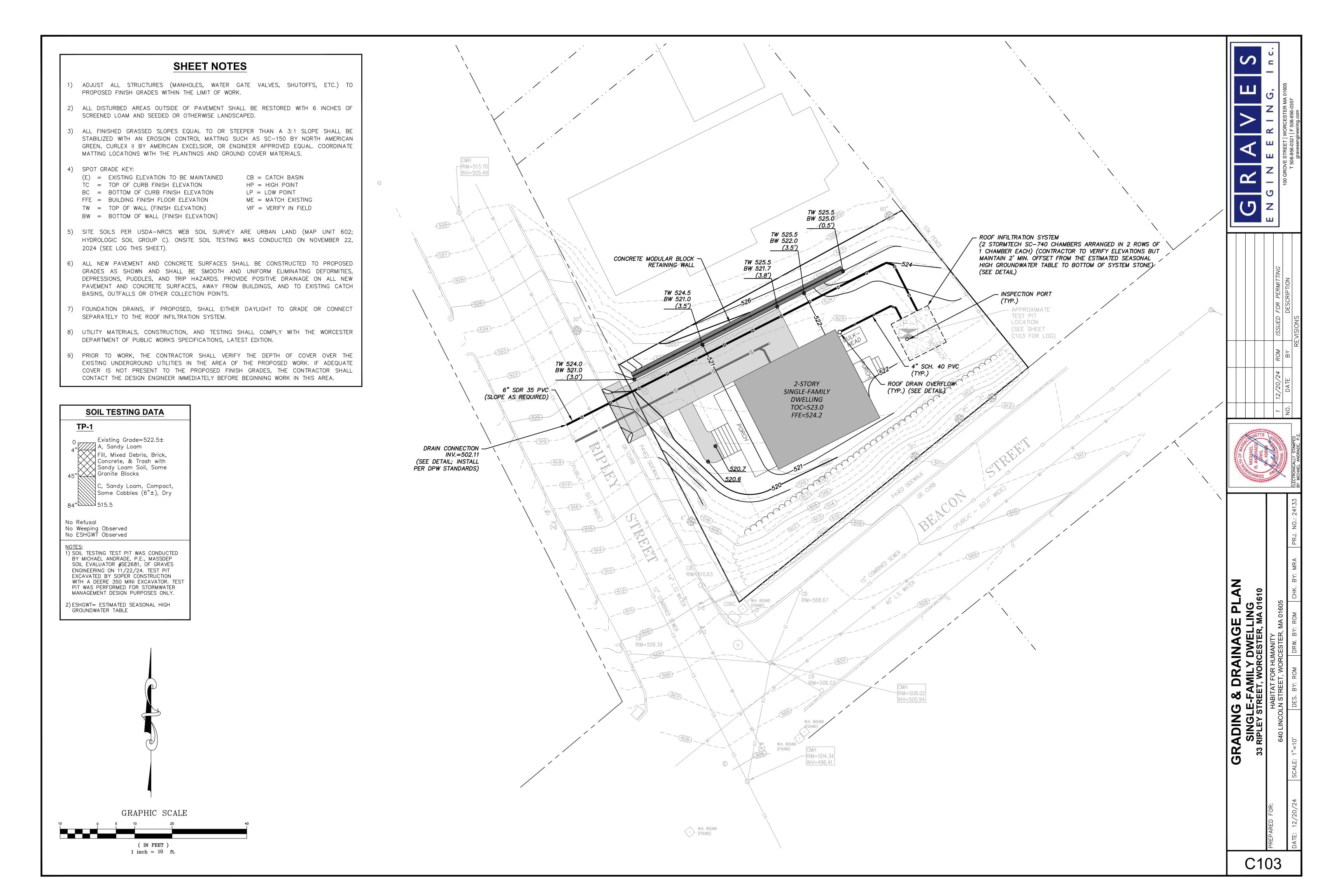
PLANTING LIST						
CODE	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	NOTES	
TREES		•				
ALC	1	AMELANCHIER LAEVIS "CUMULUS"	CUMULUS ALLEGHANY SERVICEBERRY	3'-4' HT.	PLANT WHERE SHOWN	
HVI	1	HAMAMELIS VIRGINIANA	COMMON WITCHHAZEL	3'-4' HT.	PLANT WHERE SHOWN	
SHRUBS						
САМ	3	CEANOTHUS AMERICANUS	NEW JERSEY TEA	#3 POT	PLANT 3" O.C.	
HFS	3	HYPERICUM FRONDOSUM 'SUNBURST'	SUNBURST ST. JOHN'S WORT	#3 POT	PLANT 3' O.C.	

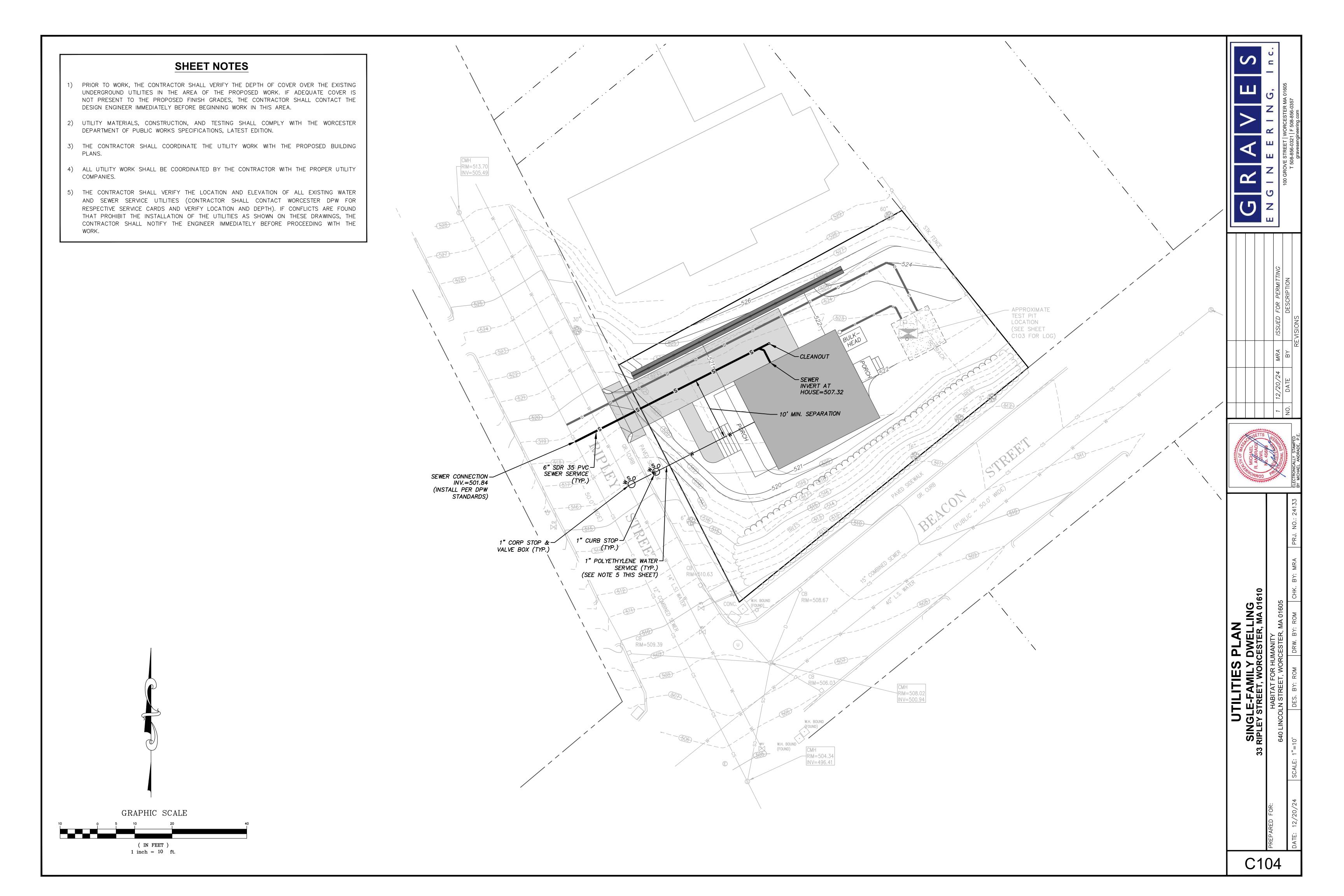


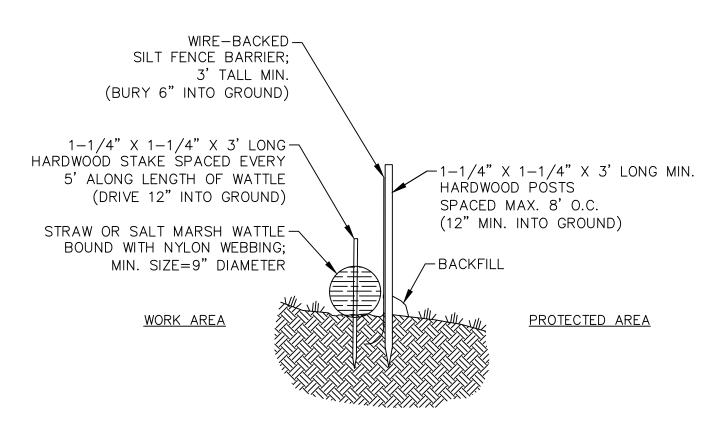




1 inch = 10 ft.



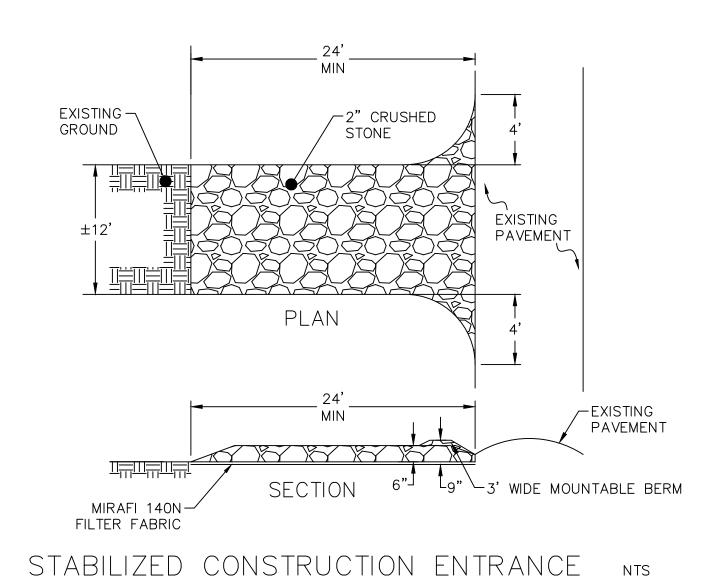


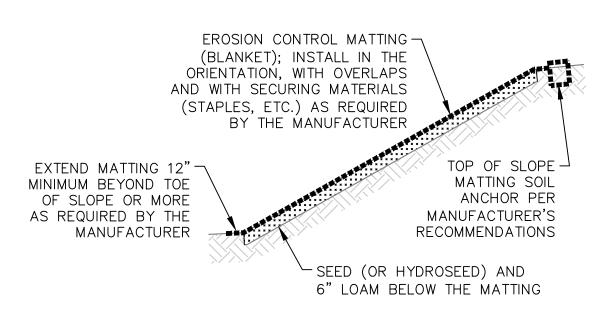


WATTLE & SILT FENCE NTS

NOTE:

PROVIDE A 3' TO 6' LEVEL AREA BETWEEN THE WATTLE AND THE TOE OF ANY SLOPE TO PROVIDE AREA FOR SEDIMENT ACCUMULATION.

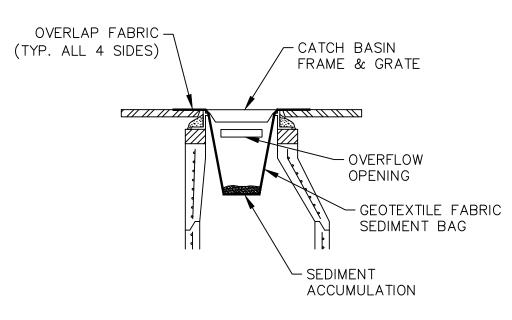




EROSION CONTROL BLANKET SLOPE STABILIZATION

NOTES

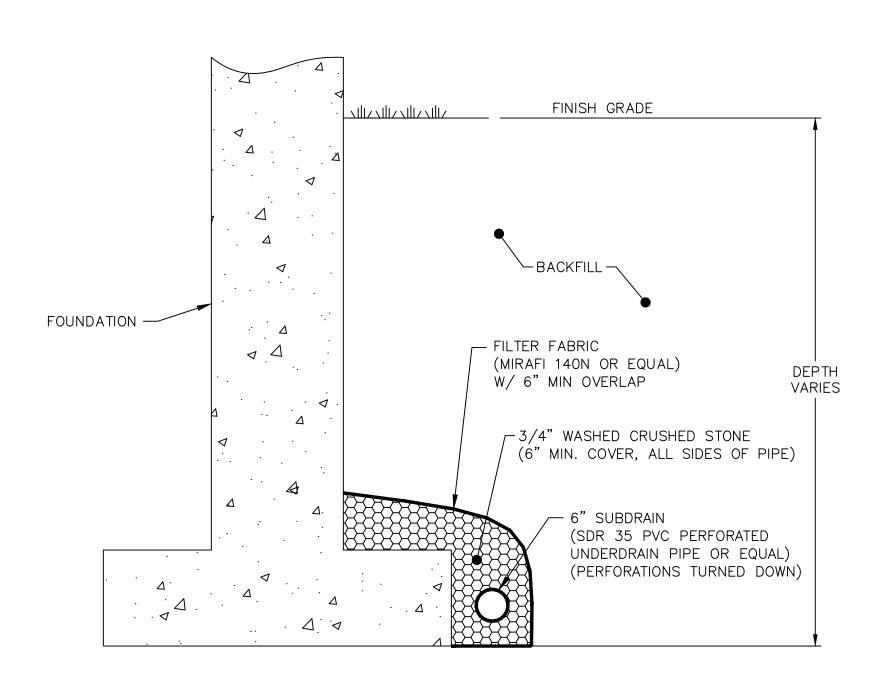
- 1) EROSION CONTROL MATTING (BLANKETS) SHALL BE INSTALLED ON ALL FINISHED SLOPES SHOWN EQUAL TO OR STEEPER THAN A 3:1 SLOPE (33.5%).
- 2) INSTALLATION SHALL STRICTLY FOLLOW THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.
- 3) UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS FOR A PARTICULAR LOCATION AND APPLICATION, ACCEPTABLE EROSION CONTROL BLANKETS FOR GENERAL SLOPE STABILIZATION ARE: SC150 BY NORTH AMERICAN GREEN, CURLEX II BY AMERICAN EXCELSIOR COMPANY, OR LANDLOK C2 BY PROPEX (OR ENGINEER APPROVED EQUAL).



CATCH BASIN SEDIMENT BAG NTS

NOTES:

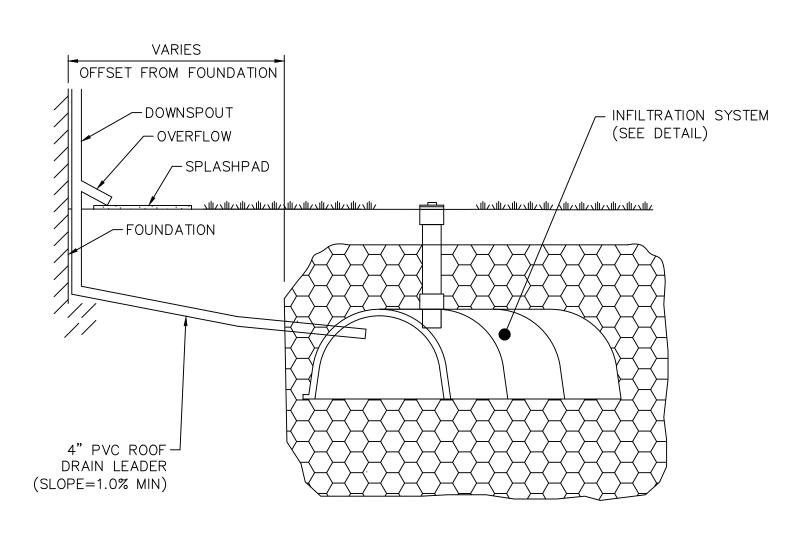
- SEDIMENT BAG SHALL BE SILTSACK BY ACF ENVIRONMENTAL, OR APPROVED EQUAL.
- 2) OIL ABSORPTION MEDIUM MAY ALSO BE PLACED IN BAG (OPTIONAL).
- 3) INSTALL AND MAINTAIN PER MANUFACTURER'S INSTRUCTIONS.



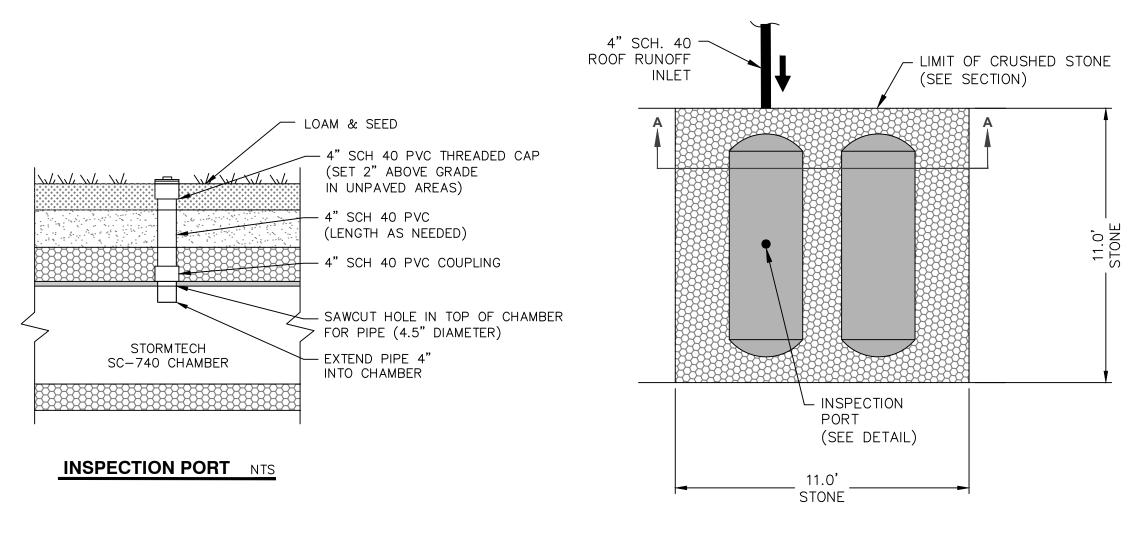
FOUNDATION DRAIN DETAIL NTS

NOTE:

1) SEE STRUCTURAL DRAWINGS FOR FOUNDATION DRAIN.

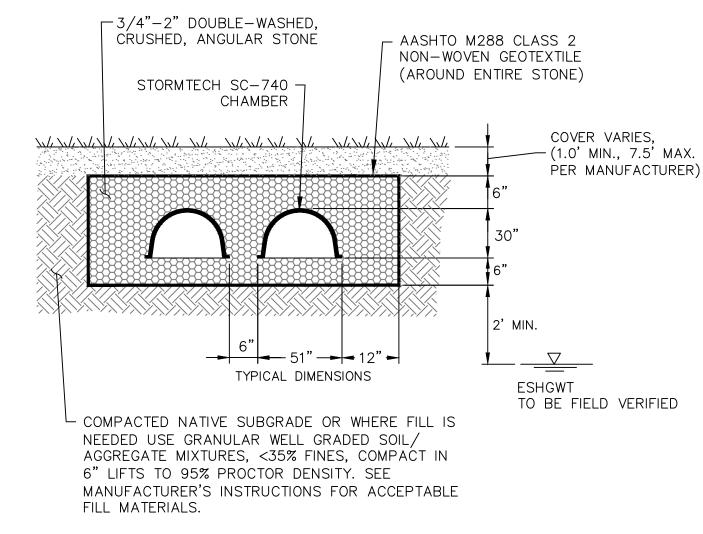


ROOF DRAIN OVERFLOW NTS



2 STORMTECH SC-740 CHAMBERS ARRANGED IN 2 ROWS OF 1 CHAMBER EACH WITH END CAPS INSTALLED WITH 6" COVER STONE & 6" BASE STONE

SYSTEM LAYOUT NTS



SECTION A-A NTS

PROPOSED ELEVATIONS			
COMPONENT	ELEVATION		
MAX. GRADE OVER CHAMBERS	522.8 (3.3' COVER)		
MIN. GRADE OVER CHAMBERS	522.0 (2.5' COVER)		
TOP OF STONE	520.00		
TOP OF CHAMBERS	519.50		
4" INLET (FROM ROOF DRAIN)	519.00		
6" OUTLET (TO EXISTING DRAIN)	519.00		
BOTTOM OF CHAMBERS	BOTTOM OF CHAMBERS 517.00		
BOTTOM OF STONE	516.50		

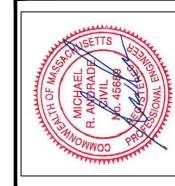
SUBSURFACE ROOF INFILTRATION SYSTEM NTS

NOT

1) THE SYSTEM STORAGE VOLUME IS 220 CU. FT.

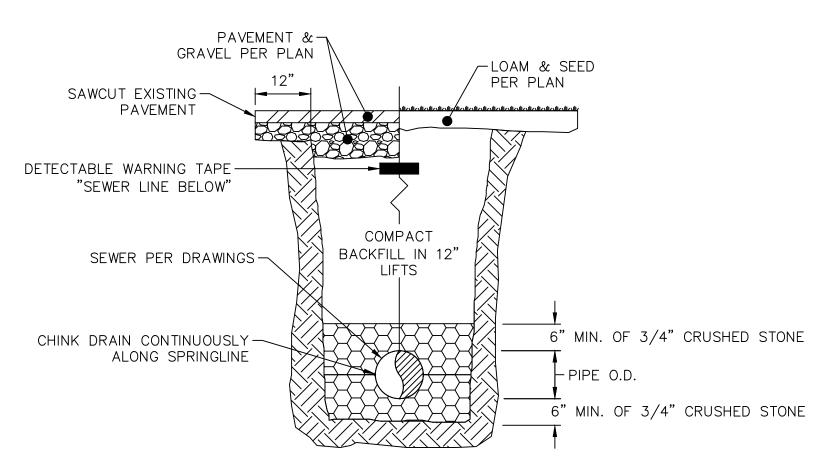


				ISSUED FOR PERMITTING	DESCRIPTION	REVISIONS
				MRA	ВҮ	R
				12/20/24 MRA	DATE	
				1	NO.	
3/3	Chus	ETTS	To the	CALLE TO THE PARTY OF THE PARTY	Ç	(PED P.E.



SITE DETAILS - 1
SINGLE-FAMILY DWELLING
RIPLEY STREET, WORCESTER, MA 01610
HABITAT FOR HUMANITY
640 LINCOLN STREET, WORCESTER, MA 01605

C501



SEWER TRENCH SECTION NTS

NOTE:

1) BACKFILL SHALL BE AN AASHTO CLASS III SOIL; EITHER TRENCH SPOILS OR AN IMPORTED SAND AND GRAVEL WITH FINES AND COMPACTED TO 90% OF THE PROCTOR DENSITY.

1-1/2" TOP. COURSE 2-1/2" BINDER_ COURSE 12" MASSDOT M1.03.0 TYPE E GRAVEL BASE (COMPACTED TO 95% MODIFIED PROCTOR) COMPACTED -SUBGRADE

PAVEMENT SECTION

- 1) TAMP ALL ASPHALT EDGES THAT ABUT LAWN, LANDSCAPED AREA, OR OTHER SOFT SURFACE.
- 2) <u>BINDER COURSE:</u> MASSDOT M3.11.03, TABLE A, "HMA INTERMEDIATE COURSE DENSE BINDER" OR SUPERPAVE INTERMEDIATE COURSE - 19.0MM (MIXTURE DESIGNATION SIC - 19.0).
- 3) TOP COURSE: MASSDOT M3.11.03, TABLE A. "SURFACE COURSE STANDARD TOP" OR SUPERPAVE SURFACE COURSE - 12.5MM (MIXTURE DESIGNATION SSC - 12.5).

✓ BIT. ASPHALT ¬ \ ASPHALT DRIVEWAY | ASPHALT . 6", _ SIDEWALK SIDEWALK CURBCUT -2'R GRANITE BULLNOSE (TYP CURBCUT WIDTH

WORCESTER STANDARD CURB CUT NTS

NOTE:

8" MASSDOT M2.01.7

(COMPACTED TO 95%

MODIFIED PROCTOR)

DENSE-GRADED CRUSHED STONE

COMPACTED

SUBGRADE

NOTES:

SURFACE.

SIC - 19.0).

1) BIT. ASPHALT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PAVEMENT SECTION DETAIL ON THESE PLANS (6" THICKNESS ACROSS CURB CUTS).

WIDTH PER PLAN

1-1/2" TOP COURSE \neg

BITUMINOUS WALKWAY SECTION NTS

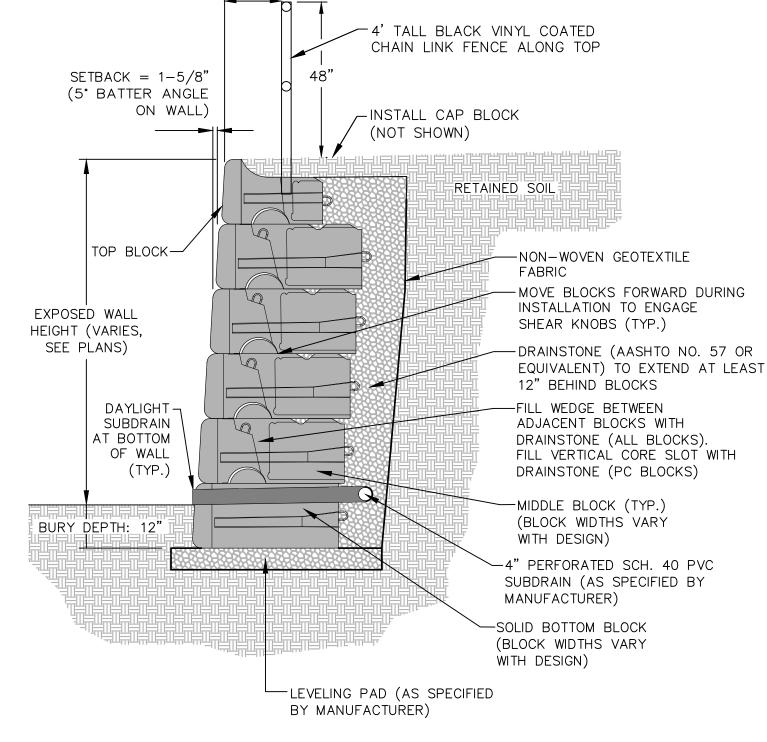
1) DO NOT EXTEND BASE GRAVEL AS SHOWN WHEN PAVED AREAS ARE ABUTTING ROAD, WALKWAY, OR OTHER HARD

2) <u>BINDER COURSE:</u> - MASSDOT M3.11.03, TABLE A, "HMA

3) TOP COURSE: - MASSDOT M3.11.03, TABLE A, "SURFACE COURSE STANDARD TOP" OR SUPERPAVE SURFACE COURSE - 12.5MM (MIXTURE DESIGNATION SSC - 12.5).

INTERMEDIATE COURSE DENSE BINDER" OR SUPERPAVE INTERMEDIATE COURSE - 19.0MM (MIXTURE DESIGNATION

-1/2" BINDER COURSE



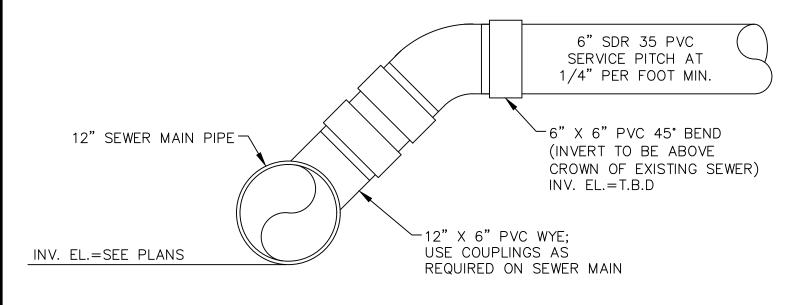
TYPICAL GRAVITY-TYPE PRECAST CONCRETE MODULAR BLOCK RETAINING WALL SECTION NTS

±12"

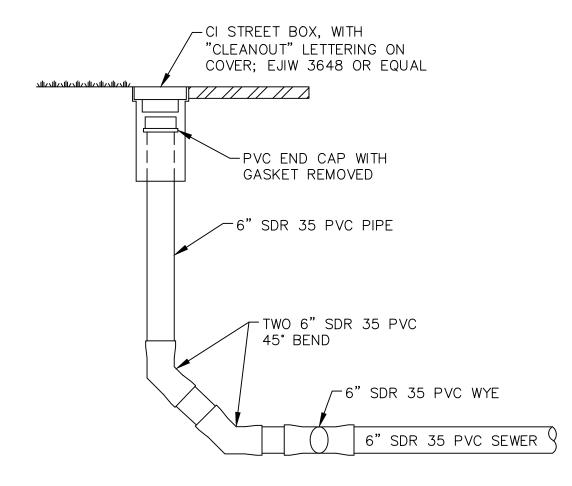
NOTES:

√6" LOAM AND SEED

- 1) BLOCK TEXTURE (FINISH) SHALL BE SIMILAR TO "LIMESTONE" BY REDI-ROCK INTERNATIONAL, LLC. AND BASED ON CONTRACTOR-SELECTED WALL MANUFACTURER.
- 2) BLOCK COLOR SHALL BE GRAY.
- 3) CONTRACTOR IS RESPONSIBLE FOR WALL MANUFACTURER'S COST OF PREPARING STRUCTURAL ENGINEERING DRAWINGS.
- 4) CONTRACTOR IS RESPONSIBLE FOR OBTAINING A BUILDING PERMIT AS REQUIRED.
- 5) DESIGN SUBJECT TO CHANGE BASED ON STRUCTURAL ENGINEER-PREPARED DRAWINGS AND OWNER MATERIAL SELECTIONS.



SEWER SERVICE CONNECTION DETAIL NTS



SEWER CLEANOUT NTS

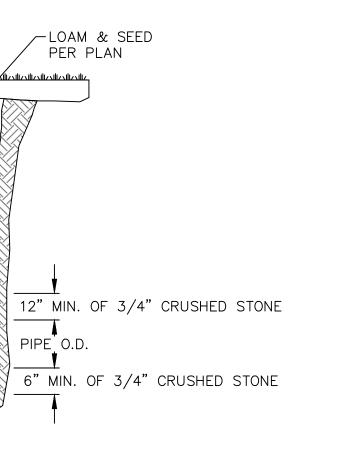
PAVEMENT & GRAVEL-PER PLAN -LOAM & SEED PER PLAN SAWCUT EXISTING PAVEMENT 5' MIN. COVER SUITABLE BACKFILL COMPACT IN 12"

DRAIN CONNECTION DETAIL NTS

COUPLING

6" SDR 35 PVC DRAIN SLOPE AS REQUIRED -6" X 6" PVC 45° BEND (INVERT TO BE ABOVE CROWN OF EXISTING DRAIN) INV. EL.=T.B.D. 3" FERNCO "QWIKSEAL" FLEXIBLE CONNECTION

WATER SERVICE TRENCH SECTION NTS



EXISTING DRAIN-

INV. EL.=SEE PLANS

HDPE/PVC DRAIN TRENCH SECTION NTS

COMPACT

BACKFILL IN 12"

LIF_iTS

NOTES:

PAVEMENT & -

GRAVEL PER PLAN

SAWCUT EXISTING -

DETECTABLE WARNING TAPE-

PAVEMENT

"DRAIN LINE BELOW"

DRAIN PER DRAWINGS-

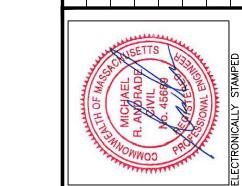
CHINK DRAIN-

CONTINUOUSLY

ALONG SPRINGLINE

- 1) BACKFILL SHALL BE AN AASHTO CLASS III SOIL; EITHER TRENCH SPOILS OR AN IMPORTED SAND AND GRAVEL WITH FINES AND COMPACTED TO 90% OF THE PROCTOR DENSITY.
- 2) BACKFILL OF HDPE PIPE SHALL CONFORM TO ASTM D2321 AND/OR MANUFACTURER'S SPECIFICATIONS.

-FINISH GRADE VALVE BOX — _1" POLYETHYLENE (PE 3408 CLASS 200) WATER-MAIN - WATER SERVICE PER DRAWINGS CORPORATION STOP (USE SADDLE WITH PVC WATER MAIN) WATER SERVICE NTS -6" MIN. SAND BEDDING & BLANKET



R.O.W.

2'± ─── كالحكالحكالج كالحكال

5' MIN.

TO BUILDING -

-CURB STOP

S

SINGLE-F RIPLEY STRE

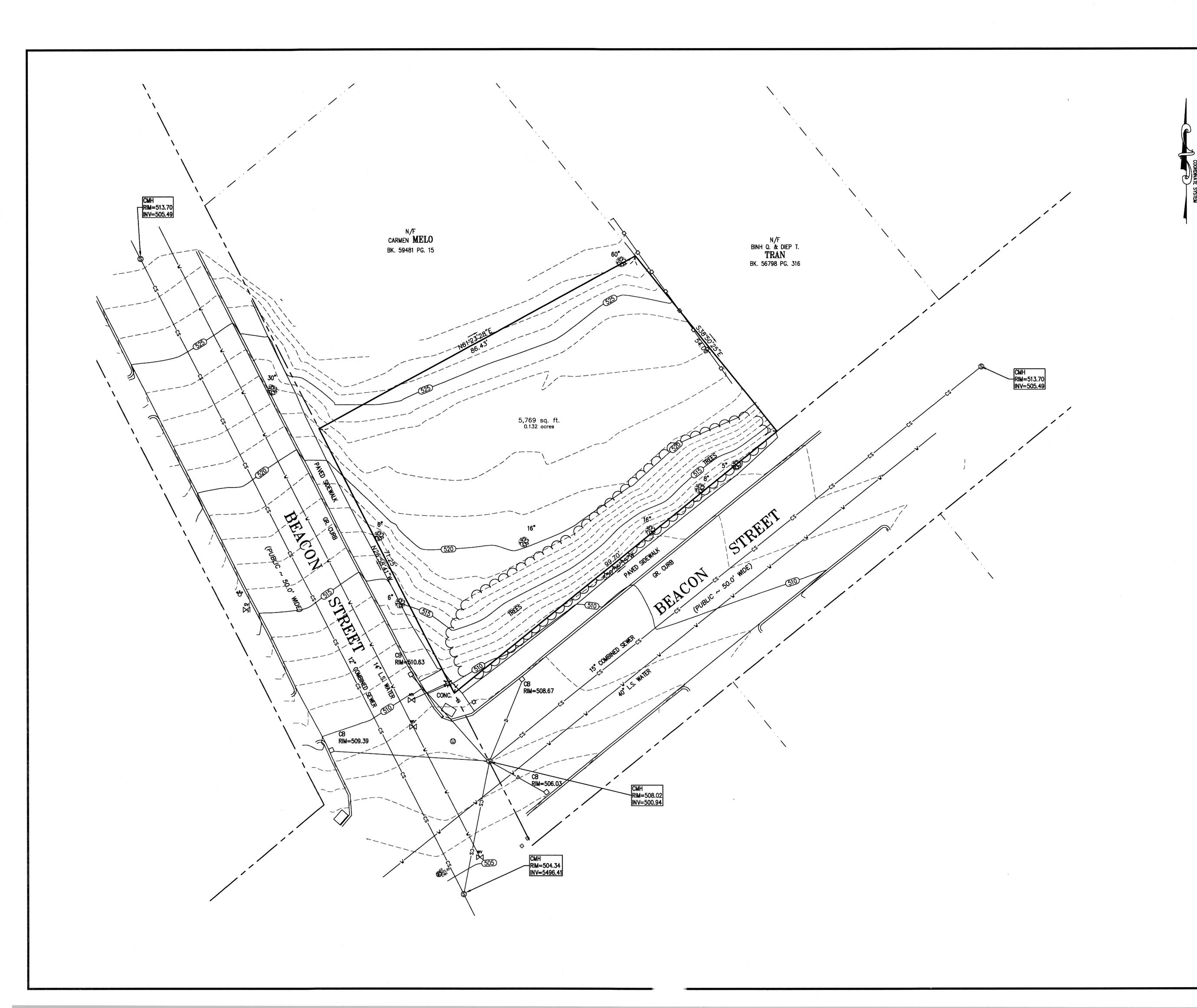
C502

NOTE:

1) SUITABLE BACKFILL SHALL BE AN AASHTO CLASS III SOIL; EITHER TRENCH SPOILS OR AN IMPORTED SAND AND GRAVEL WITH FINES AND COMPACTED TO 90% OF THE PROCTOR DENSITY.

FROM 6" BELOW THE PIPE TO 12"

ABOVE THE PIPE



NOTES:

THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ANY FINDINGS SUCH A REPORT MIGHT DISCLOSE.

LOCATION OF ALL UNDERGROUND UTILITIES SHOWN HEREON ARE APPROXIMATE AND ARE BASED ON THE FIELD LOCATION OF ALL VISIBLE STRUCTURES SUCH AS CATCH BASINS, MANHOLES, WATER GATES, ETC. AND COMPILING INFORMATION FROM PLANS SUPPLIED BY VARIOUS UTILITY COMPANIES AND GOVERNMENT AGENCIES. IN ACCORDANCE WITH CHAPTER 82 SECTION 40 INCLUDING AMENDMENTS ALL CONTRACTORS SHOULD NOTIFY IN WRITING ALL UTILITY COMPANIES AND GOVERNMENT AGENCIES PRIOR TO ANY EXCAVATION WORK OR CALL DIG-SAFE AT 1-888-344-7233.

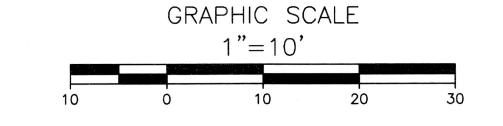
REFERENCES:

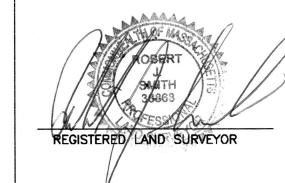
DEED BOOK 70864 PAGE 298 ASSESSORS REFERENCE: 06-034-00009

ZONIN

RG-5

ALL ABOVE DEEDS AND PLANS ARE RECORDED WITH THE WORCESTER DISTRICT REGISTRY OF DEEDS.





Oct 10, 2024
DATE

B&R SURVEY, INC.

100 GROVE STREET
WORCESTER, MA 01605
TEL 508-756-8579
FAX 508-421-4797

EXISTING CONDITION SITE PLAN

LAND OWNED BY:

HABITAT FOR HUMANITY METROWEST/GREATER WORCESTER, INC.

33 RIPLEY STREET WORCESTER, MASSACHUSETTS

SCALE: 1"=10'

DATE: OCTOBER 10, 2024

FIELD: RJS	CALC: RPB	CHECK: RJS
SHEET 1 OF 1		JOB #24-221