

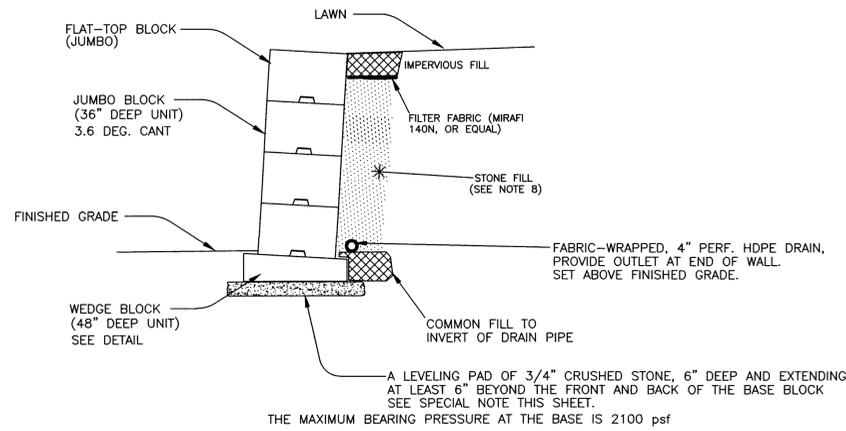
GENERAL NOTES:

- STRIP ALL VEGETATION, ORGANIC SOILS AND UNSUITABLE FILL SOILS FROM THE WALL AND GRID ALIGNMENT AREA.
- BENCH CUT ALL EXCAVATED SLOPES.
- DO NOT OVER EXCAVATE UNLESS DIRECTED TO DO SO BY THE OWNER'S SITE REPRESENTATIVE IN ORDER TO REMOVE UNSUITABLE SOIL. IF OVEREXCAVATING TO IMPROVE BEARING CAPACITY, THE EXCAVATION SHALL EXTEND AT A 1H:1V SLOPE IN FRONT OF THE WALL FACE AND AT LEAST AS FAR BEHIND THE WALL AS THE LONGEST GEOGRID LENGTH.
- THE OWNER'S SITE REPRESENTATIVE SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT PER THE DESIGN STANDARDS AND PARAMETERS.
- LEVELING PAD SHALL CONSIST OF COMPACTED, STRUCTURAL-GRADE SAND & GRAVEL (OR GRAVEL, 3/4" MAX.), MINIMUM 6" DEPTH. AN OPTION IS TO PLACE A THIN PAD (MAX. 3" THICK) OF LEAN CONCRETE, UNREINFORCED, TO USE AS A BASE LEVELING PAD.
- MINIMUM EMBEDMENT OF WALL BELOW FINISH GRADE SHALL BE AS INDICATED ON THE WALL FACE DRAWING.
- FOLLOW APPLICABLE PROVISIONS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS, ESPECIALLY WITH REGARDS TO LEVELING OF BLOCKS AND BASE.
- DRAINAGE FILL MIN. 12" THICK SHALL BE INSTALLED BEHIND THE WALL. THIS MATERIAL SHALL BE CLEAN 3/4" CRUSHED STONE. PLACE FILTER FABRIC BETWEEN STONE AND CUT FACE.
- WHERE PERFORATED HDPE DRAINS ARE USED, PROVIDE OUTLETS AT ONE END OF THE WALL OR TIE TO A CLOSED DRAINAGE SYSTEM. (ALTERNATE OUTLET METHODS MAY BE APPROVED BY THE DESIGN ENGINEER.)
- BACKFILL AND COMPACT THE FILL MATERIAL BEHIND THE WALL AS THE WALL IS INSTALLED.
- COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MINIMUM NUMBER OF TESTS SHALL BE DETERMINED BY THE OWNER'S SITE REPRESENTATIVE.
- PROVIDE LATERAL DRAINAGE SWALES TO DIRECT FLOWS AROUND THE ENDS OF THE WALL AND AWAY FROM THE WALL DURING CONSTRUCTION. DO NOT CONSTRUCT SWALE BEHIND WALL AS PART OF FINISHED WALL. FINISHED GRADE TO SLOPE AWAY FROM WALL.
- TURF, OR SOME ACCEPTABLE FORM OF SOIL EROSION PROTECTION, SHOULD BE ESTABLISHED AT THE TOP OF THE WALL (WHERE REQUIRED) BY THE LANDSCAPE CONTRACTOR AS SOON AS THE WALL IS COMPLETED.
- FINAL WALL ALIGNMENT SHALL BE LOCATED IN THE FIELD BY THE OWNER'S REPRESENTATIVE.
- RECOMMENDED COMPACTION EQUIPMENT WITHIN 15 FEET OF THE BACK OF THE WALL IS AS FOLLOWS:
 0 - 4 FEET HAND TAMP OR VIBRATORY PLATE COMPACTOR
 4 - 15 FEET NOTHING LARGER THAN TWO-DRUM, WALK-BEHIND VIBRATORY ROLLER (LARGER ROLLERS CAN BE USED STATICALLY, PROVIDED LIFT SIZE DOES NOT COMPROMISE ACHIEVEMENT OF NECESSARY COMPACTION RATES.)
- THESE WALLS HAVE BEEN DESIGNED WITH CONSIDERATION OF SEISMIC LOADINGS IN ACCORDANCE WITH THE MASSACHUSETTS BUILDING CODE.

SPECIAL NOTES:

- THE WALL(S) SHOWN ON THIS PLAN ARE BASED ON THE FOLLOWING INFORMATION:
 PARTIAL COPY OF PLOT PLAN AND SKETCHES PROVIDED BY OWNER;
 FIELD MEASUREMENTS AND OBSERVATIONS BY COWESET ENGINEERING IN JANUARY 2026.
- THE CONTRACTOR SHALL NOTIFY DIG-SAFE AT 811 PRIOR TO THE START OF EXCAVATION FOR THE WALL BASE OR REINFORCED SOIL AREA.
- THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING AND MAINTAINING ALL EXCAVATIONS IN A SAFE CONDITION IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL NOTIFY DIG-SAFE AT 811 PRIOR TO THE START OF EXCAVATION FOR THE WALL BASE OR REINFORCED SOIL AREA.
- THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING AND MAINTAINING ALL EXCAVATIONS IN A SAFE CONDITION IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.
- COWESET ENGINEERING IS NOT RESPONSIBLE FOR THE COMPLIANCE OF THE PROPOSED WALLS RELATED TO WALL HEIGHTS, SETBACKS OR OTHER LOCAL REQUIREMENTS.
- THESE PLANS ARE APPLICABLE TO AND MAY ONLY BE UTILIZED FOR CONSTRUCTION OF THE SPECIFIC WALLS SHOWN ON THE WALL FACE DRAWINGS, ON THIS SITE, IN CONJUNCTION WITH THE REFERENCED VERSION OF THE SOURCE PLANS.
- WHEN COWESET ENGINEERING IS REQUIRED TO INSPECT THE WALLS, THE INITIAL INSPECTION WILL BE AFTER THE BASE IS EXCAVATED AND THE WEDGE BLOCKS HAVE BEEN INSTALLED. SUBSEQUENT INSPECTIONS WILL BE PERFORMED BASED ON THE PROGRESS OF THE CONSTRUCTION AND OBSERVATIONS MADE DURING EACH VISIT. NO CERTIFICATIONS WILL BE PROVIDED IF INSPECTIONS ARE NOT PERFORMED. CONTACT COWESET ENGINEERING WITH ANY QUESTIONS.
- THESE PLANS ARE FOR THE REPLACEMENT OF AN EXISTING, FAILED BLOCK WALL WITH A NEW GRAVITY SEGMENTAL WALL ALONG THE SAME APPROXIMATE ALIGNMENT AND RETAINING THE SAME AMOUNT OF FILL. CONTRACTOR SHALL DEMOLISH THE EXISTING WALL AND DISPOSE OF ALL COMPONENTS IN FULL COMPLIANCE WITH ALL APPLICABLE REGULATIONS. NO REMNANTS OF THE EXISTING WALL MAY REMAIN WITHIN THE WALL BASE OR ENVELOPE.
- COWESET ENGINEERING MAKES NO REPRESENTATION AS TO THE CONDITION OF THE EXISTING WALLS. CONTRACTOR SHALL PROTECT THE EXISTING WALLS DURING THE INSTALLATION AND MAKE ANY NECESSARY REPAIRS OF DAMAGE CAUSED BY THE DEMOLITION, EXCAVATION, AND INSTALLATION OF THE NEW WALL.

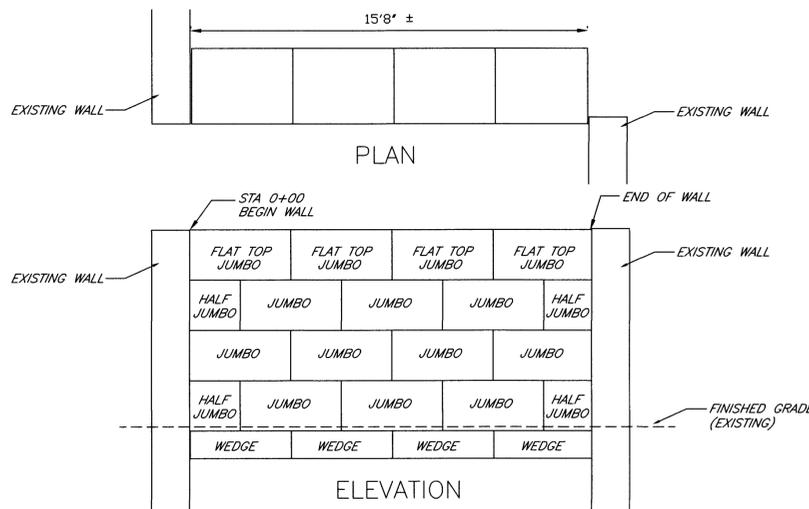
IF CONDITIONS ARE DIFFERENT THAN THOSE STATED IN THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR MUST CONTACT THE DESIGN ENGINEER PRIOR TO PROCEEDING WITH THE CONSTRUCTION OF THE WALL.



TYPICAL WALL PARTS SECTION-GRAVITY WALL WITH WEDGE BLOCK - CROSS SECTION APPLICABLE TO ENTIRE WALL.

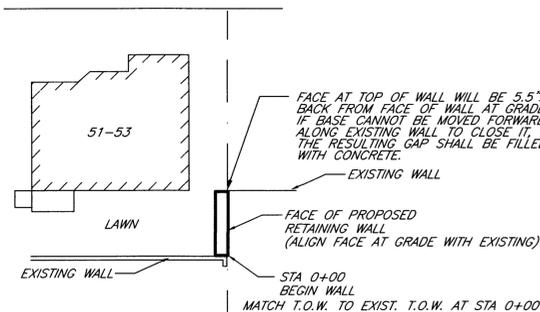
JUMBO BLOCK RETAINING WALL BY CONIGLIARO BLOCK (NOT TO SCALE)

BLOCKS WILL NEED TO BE SHORTENED TO FIT AVAILABLE LENGTH. CONTACT MANUFACTURER FOR OPTIONS/ DETAILS. ALTERNATE : EXTEND BLOCKS BEYOND END OF EXISTING WALL

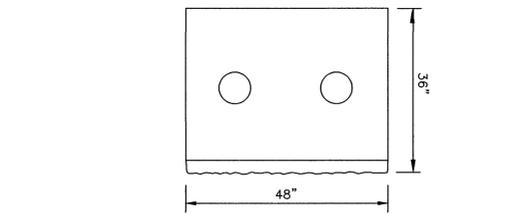


WALL FACE DRAWING (NOT TO SCALE)

HARRIET AVENUE

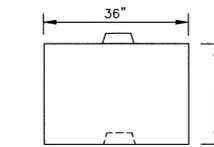


WALL ORIENTATION PLAN (NOT TO SCALE)



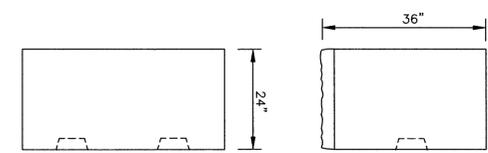
TYPICAL UNIT - JUMBO BLOCK
UNIT DIMENSIONS (NOT TO SCALE)

BLOCKS ALSO AVAILABLE 1' IN HEIGHT

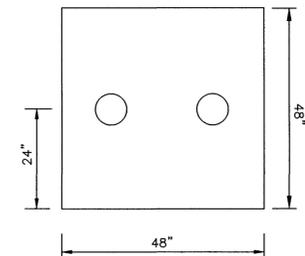


TYPICAL HALF UNIT
UNIT DIMENSIONS (NOT TO SCALE)

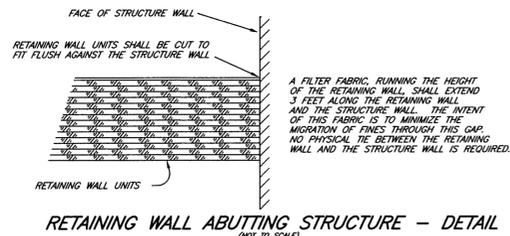
NOTE: CORNER UNITS ARE FINISHED ON TWO SIDES



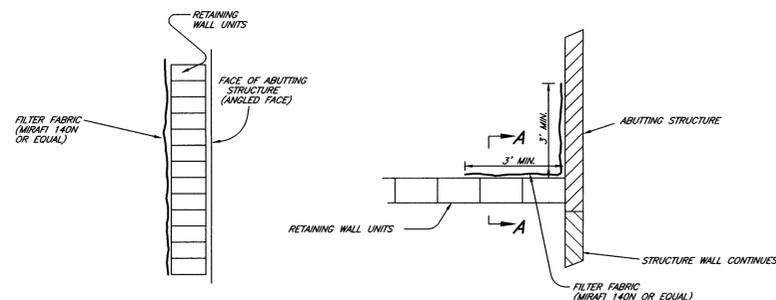
TYPICAL UNIT - TOP BLOCK
UNIT DIMENSIONS (NOT TO SCALE)



TYPICAL UNIT - WEDGE BLOCK
UNIT DIMENSIONS (NOT TO SCALE)



RETAINING WALL ABUTTING STRUCTURE - DETAIL (NOT TO SCALE)



RETAINING WALL ABUTTING STRUCTURE PLAN VIEW (NOT TO SCALE)

IMPERVIOUS MATERIAL GENERAL REQUIREMENTS		
SIEVE SIZE	% PASSING	
#4	100%	
#40	80-100%	
#100	50-90%	
#200	40-80%	
	30-80%	

8" OF TOPSOIL IS AN ACCEPTABLE ALTERNATE FOR IMPERVIOUS FILL ALONG THE TOP OF THE WALL.

DESIGN ASSUMPTIONS			
SOIL	SOIL UNIT WEIGHT	φ	
SELECT FILL/BACKFILL	128	34	
RETAINED EARTH	130	32	
FOUNDATION SOIL	125	32	

APPLIED SURCHARGE LOADING = 40 psf
SEISMIC ACCELERATION = 0.17

MINIMUM FACTORS OF SAFETY GRAVITY WALL	
OVERTURNING	1.5
SLIDING	1.5
BEARING CAPACITY	2.0

COWESET ENGINEERING

77 WALNUT STREET, WEST BRIDGEWATER MA - TEL: 508-427-0065, FAX: 508-427-0068

NOTE: THIS DRAWING WAS PREPARED FOR USE WITH CONIGLIARO "JUMBO" PRECAST WALL BLOCKS. CONTACT CONIGLIARO BLOCK AT (508) 872-9668

CLIENT:	MAYER'S BUILDING REMODELING P.O. BOX 1349, FRAMINGHAM, MASSACHUSETTS 01701
PROJECT:	PROPOSED RETAINING WALL REPAIR 51-53 HARRIET AVENUE, BELMONT, MASSACHUSETTS
SHEET TITLE:	GENERAL NOTES AND DETAILS
DATE:	JANUARY 29, 2026
PROJECT No.:	25-112
SCALE:	AS SHOWN

