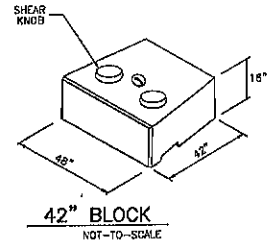


**WALL FACE DRAWING**  
SCALE: 1" = 10'

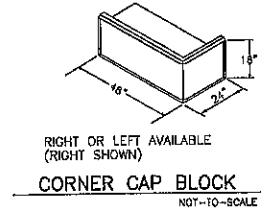
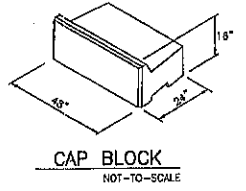
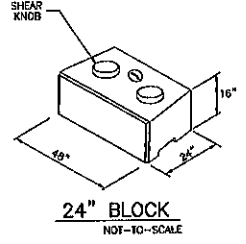
NOTE: IF THE FIELD CONDITIONS INDICATE THE GRADE AT THE BASE AND/OR TOP OF THE WALL TO BE DIFFERENT FROM THAT SHOWN ON THESE PLANS, THE DESIGN ENGINEER SHALL BE CONTACTED TO VERIFY CHANGES TO THE WALL BASE COURSE AND/OR TOP OF WALL ELEVATION. PLEASE NOTE TOPOGRAPHY WAS NOT PROVIDED FOR THIS PROJECT. ELEVATIONS ARE BASED ON AN ASSUMED TOP-OF-WALL ELEVATION EQUAL TO 100.0'.

**BLOCK LEGEND & QUANTITIES**

HLC	HALF LEFT CAP BLOCK	1
HRC	HALF RIGHT CAP BLOCK	1
C	CAP BLOCK	14
H24	HALF 24" BLOCK	1
24	24" BLOCK	29
H42	HALF 42" BLOCK	1
42	42" BLOCK	38



BLOCK NOTE: HALF BLOCKS ARE DIMENSIONALLY THE SAME AS THE BLOCK ABOVE EXCEPT THEY ARE 24" ACROSS THE BLOCK FACE INSTEAD OF THE 48" SHOWN ABOVE.



**GENERAL NOTES:**

- SITE PREPARATION:**
  - STRIP ALL VEGETATION, ORGANIC SOILS AND UNSUITABLE FILL SOILS FROM THE WALL ALIGNMENT AREA.
  - BENCH CUT ALL EXCAVATED SLOPES IN ORDER TO "TIE IN" THE ADJACENT FILL SOILS.
  - DO NOT OVER EXCAVATE UNLESS DIRECTED TO DO SO BY THE OWNER'S SITE REPRESENTATIVE IN ORDER TO REMOVE UNSUITABLE SOIL.
  - THE OWNER'S SITE REPRESENTATIVE SHALL VERIFY THE COMPETENCY OF THE FOUNDATION SOILS.
- LEVELING PAD & BOTTOM BLOCK:**
  - LEVELING PAD SHALL CONSIST OF DENSE GRADED 3/4" CRUSHED STONE, 12" THICK AND EXTENDING AT LEAST 12" TO EITHER SIDE OF THE BASE BLOCK.
  - 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.
- WALL DRAIN:**
  - DRAINAGE FILL SHALL CONSIST OF NH DOT #57 CRUSHED STONE PLACED FOR A DEPTH OF AT LEAST 12" BEHIND THE WALL. A FILTER FABRIC SHALL BE PLACED AT THE REAR OF THE DRAINAGE FILL TO ISOLATE IT FROM THE RETAINED SOILS.
  - THE PERFORATED HDPE WALL DRAIN SHALL OUTLET THRU THE WALL FACE VIA NOTCHES FIELD CUT IN THE WALL BLOCK. REFER TO THE WALL FACE DRAWING FOR OUTLET LOCATIONS.
  - PLACE A FILTER FABRIC (MIRAFI 140N, OR EQUAL) OVER THE DRAINAGE MATERIAL TO MINIMIZE SOIL MIGRATION FROM THE SURFACE MATERIAL (TOPSOIL OR CRUSHED STONE) INTO THE DRAINAGE MATERIAL.
- BACKFILLING & COMPACTION:**
  - 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.
  - COMPACTION SHALL BE TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY.
  - 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.)
- GENERAL WALL LAYOUT & CONSTRUCTION:**
  - FINAL WALL ALIGNMENT SHALL BE LOCATED IN THE FIELD 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. PERMANENT SWALES SHALL BE FITTED TO THE WALL ENDS TO PROMOTE DRAINAGE OF SURFACE WATER RUNOFF. ALTERNATELY, THE SLOPE ABOVE THE WALL CAN BE GRADED TO ALLOW SURFACE WATER TO FLOW OVER THE WALL FACE. DO NOT ALLOW WATER TO POND AT THE TOP OF THE 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.
  - THESE WALLS HAVE BEEN DESIGNED WITH CONSIDERATION OF SEISMIC LOADINGS.
  - WALL CERTIFICATIONS: OCCASIONALLY A "SIGN OFF" BY THE DESIGN ENGINEER IS NEEDED AFTER COMPLETION OF WALL CONSTRUCTION. IF THIS SERVICE IS NEEDED ARRANGEMENTS MUST BE MADE WITH THE DESIGN ENGINEER PRIOR TO WALL CONSTRUCTION FOR A SERIES OF SITE VISITS TO OBSERVE WALL CONSTRUCTION. ACCEPTANCE LETTERS, SIGN OFFS, CERTIFICATIONS, WARRANTIES, ETC. WILL NOT BE PROVIDED WITHOUT PERIODIC SITE VISITS.

COMPACTED FILL/BACKFILL GENERAL REQUIREMENTS NH DOT 304.2 - GRAVEL

SIEVE SIZE	% PASSING
6"	100%
#4	25-70%
#200*	0-12%

\* FRACTION PASSING No. 4 SIEVE

DRAINAGE FILL - NH DOT #57 STONE GRADATION REQUIREMENTS

SIEVE SIZE	% PASSING
1-1/2"	100
1/2"	95 - 100
#4	25 - 80
#8	0 - 10
#20	0 - 5
#200	0 - 2

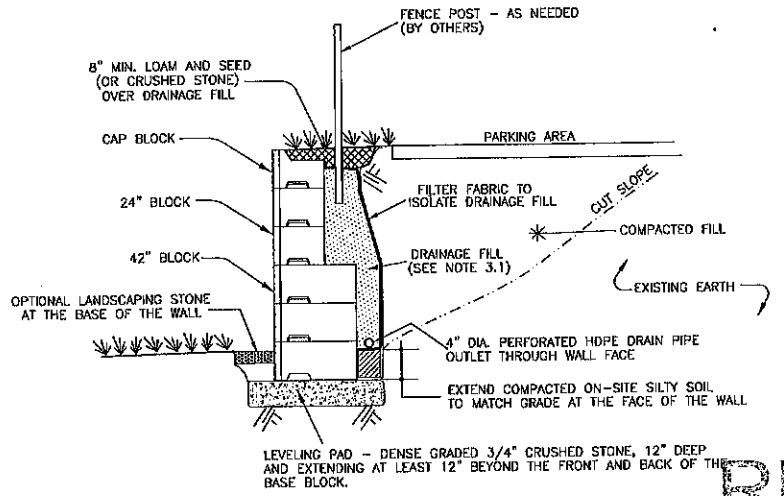
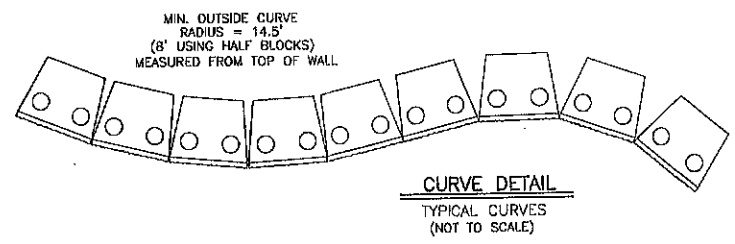
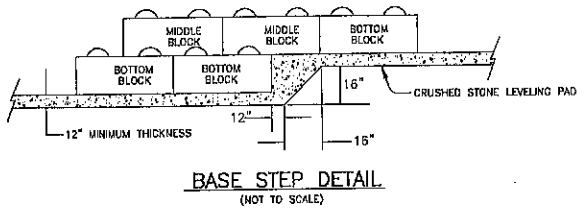
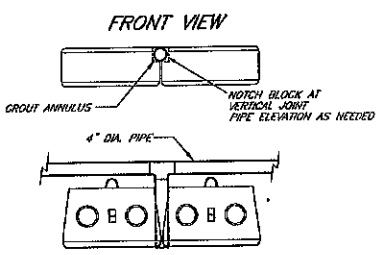
DESIGN ASSUMPTIONS

SOIL	SOIL UNIT WEIGHT (γ)	φ
COMPACTED FILL/BACKFILL	130	34
RETAINED EARTH	125	32
FOUNDATION SOIL	125	32

APPLIED SURCHARGE LOADING: 250 PSF  
SEISMIC ACCELERATION = 0.10  
GRADES NEARLY LEVEL ABOVE/BELOW WALL

MINIMUM FACTORS OF SAFETY

OVERTURNING	1.5
SLIDING	1.5
BEARING CAPACITY	2.0

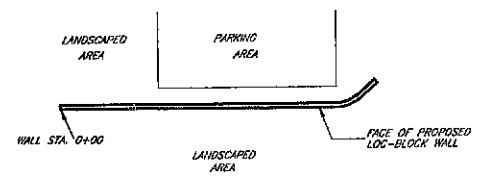


MAXIMUM APPLIED BEARING PRESSURE: 1500 psf.  
TYPICAL SECTION - GRAVITY WALL  
(TYPICAL DETAIL ONLY - SEE WALL FACE DRAWING FOR SPECIFIC BLOCK CONFIGURATIONS)  
"LOC-BLOCK" SEGMENTAL RETAINING WALL  
(NOT TO SCALE)

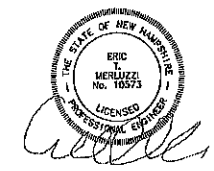
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MAR 04 2020

LAND USE OFFICE



IT IS THE RESPONSIBILITY OF THE INSTALLER TO REVIEW THE NOTES AND DETAILS ON ALL SHEETS OF THIS PLAN SET



NOTE: THIS DRAWING WAS PREPARED FOR USE WITH LOC-BLOCKS (TM) RETAINING WALL SYSTEMS. CONTACT PEPIN PRECAST AT (207) 324-6125.

<b>ERIC MERLUZZI, P.E.</b>		
184 ROWENTOWN ROAD, WENTWORTH, NH 03282		
PHONE: (603) 786-2751	E-MAIL: em35@earthlink.net	
CLIENT:	PEPIN PRECAST 59 SHAW ROAD, SANFORD, ME 04073	
PROJECT:	23 VILLAGE PLACE DRIVE BARRINGTON, NH	
SHEET TITLE:	RETAINING WALL DESIGN	
DATE:	SCALE:	PROJECT No.:
FEBRUARY 21, 2020	AS SHOWN	2020-070

SHEET 1 OF 1