

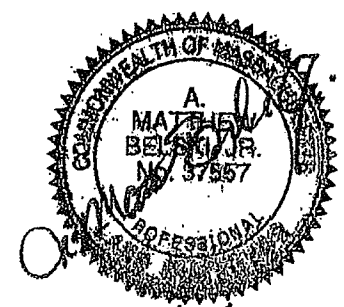
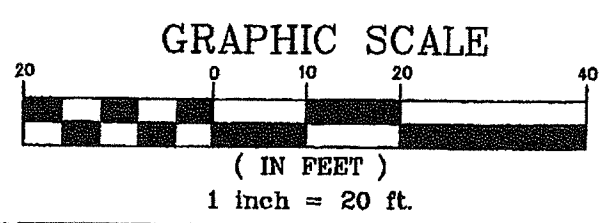
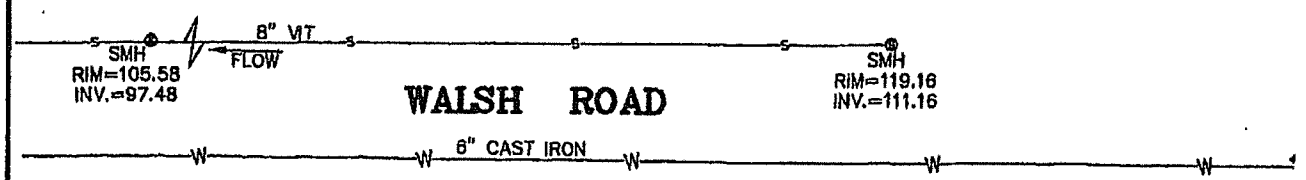
ASSESSOR'S MAP 166NW
 SECTION 84
 BLOCK 34
 LOT 35
 NEIGHBOURHOOD 4D
 ZONING - SR2 DISTRICT (OLD)
 MINIMUM LOT AREA: 10,048 SF
 MINIMUM DEPTH OF FRONT YARD: 25FT
 MINIMUM WIDTH OF SIDE YARD: 7.5 FT
 MINIMUM DEPTH OF REAR YARD: 15 FT
 TOTAL AREA 10,048 S.F. 100%
 LOT COVERAGE = 18.1% < 30% (REQUIRED)
 OPEN SPACE = 72.8% > 50% (REQUIRED)

NOTES:
 1. THE DATUM IS CITY OF NEWTON BASE.

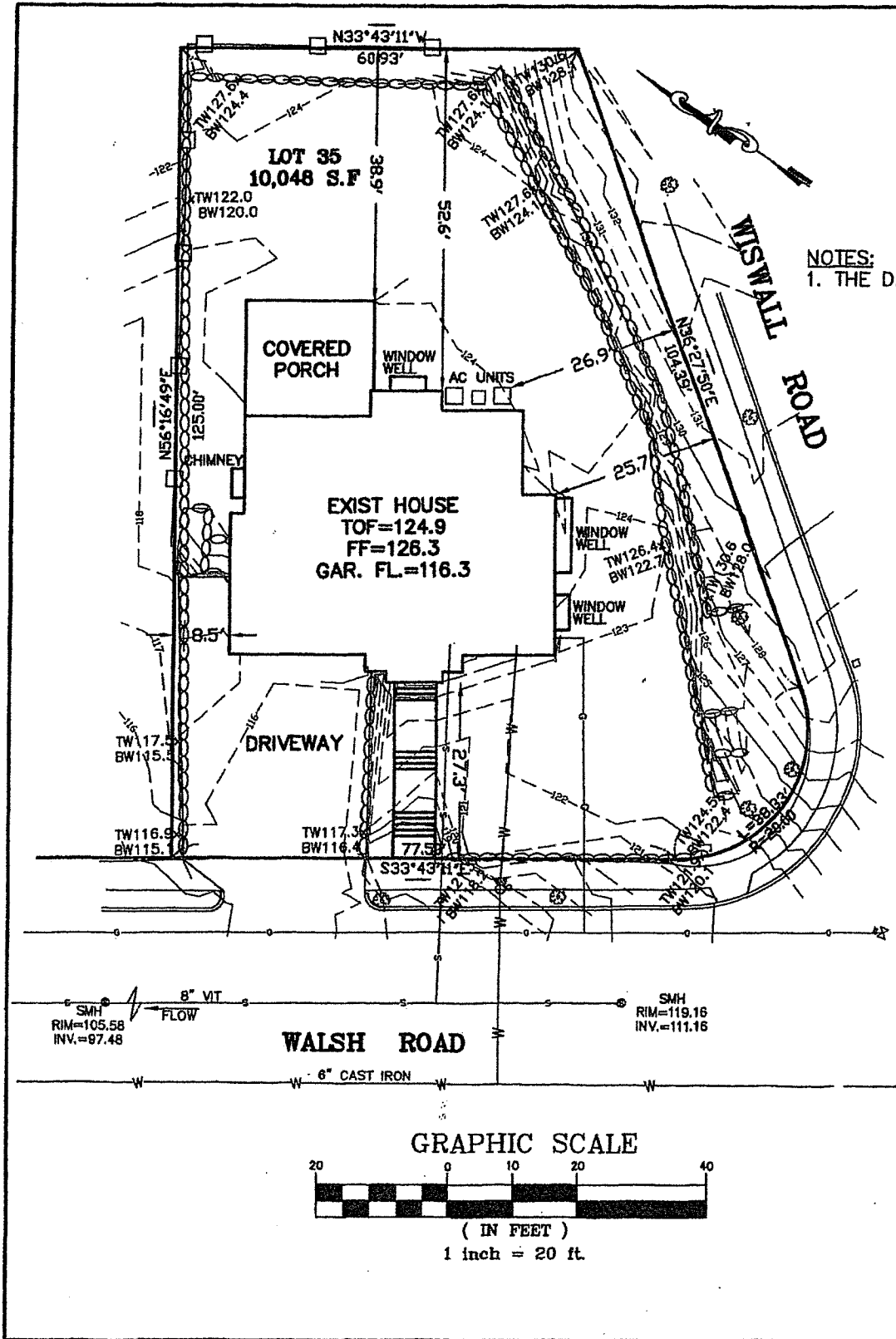
**AS BUILT PLAN
 FOUNDATION**

**36 WALSH STREET
 NEWTON, MA 02459**

SCALE: 1"=20' DATE: APRIL 30, 2019



5/2/19

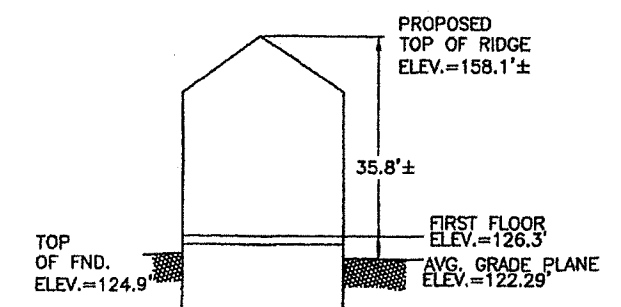


ASSESSOR'S MAP 166NW
SECTION 84
BLOCK 34
LOT 35
NEIGHBOURHOOD 4D

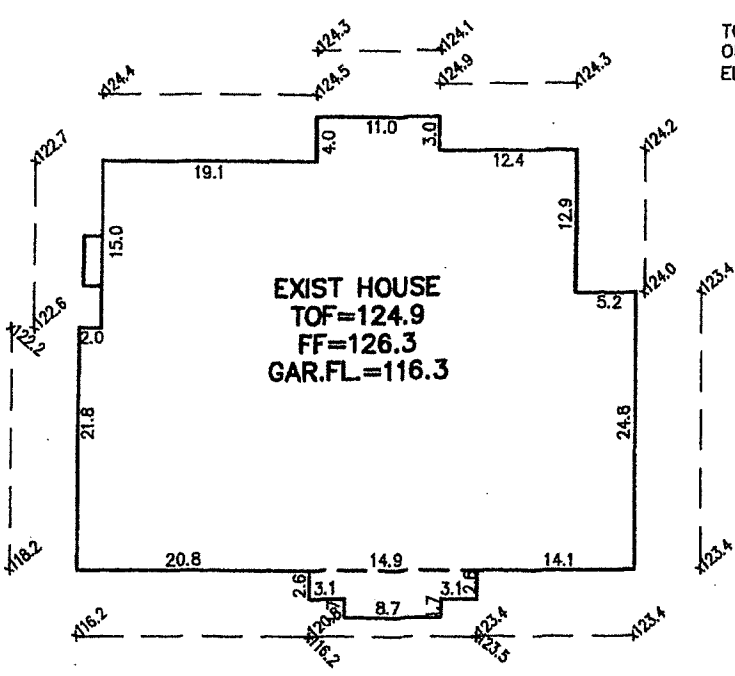
NOTES:
1. THE DATUM IS CITY OF NEWTON BASE.

AVERAGE GRADE PLANE					
SEGMENT	LENGTH	POINT 1	POINT 2	MEAN 1&2	MEANx LENGTH
1	21.8	118.2	122.2	120.0	2,616.0
2	15.0	122.6	122.7	122.6	1,839.0
3	19.1	124.4	124.5	124.4	2,376.0
4	11.0	124.3	124.1	124.2	1,366.2
5	12.4	124.9	124.3	124.6	1,545.0
6	12.9	124.2	124.0	124.1	1,600.9
7	24.8	123.4	123.4	123.4	3,077.7
8	14.1	123.4	123.4	123.4	1,739.9
9	14.9	123.5	120.8	122.2	1,820.8
10	20.8	116.2	116.2	116.2	2,417.0
				E=	20,398.5
SUM OF MEAN X LENGTH / SUM OF LENGTHS = AVERAGE GRADE PLANE =122.29'					

ZONING - SR2 DISTRICT (OLD)
MINIMUM LOT AREA: 10,048 SF
MINIMUM DEPTH OF FRONT YARD: 25FT
MINIMUM WIDTH OF SIDE YARD: 7.5 FT
MINIMUM DEPTH OF REAR YARD: 15 FT
TOTAL AREA 10,048 S.F. 100%
LOT COVERAGE = 21.8% < 30% (REQUIRED)
OPEN SPACE = 68.4% > 50% (REQUIRED)



AS BUILT PROFILE
NOT TO SCALE

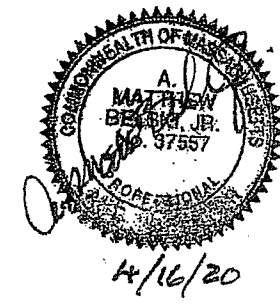


AS BUILT AVERAGE GRADE
6' OFFSET
NOT TO SCALE

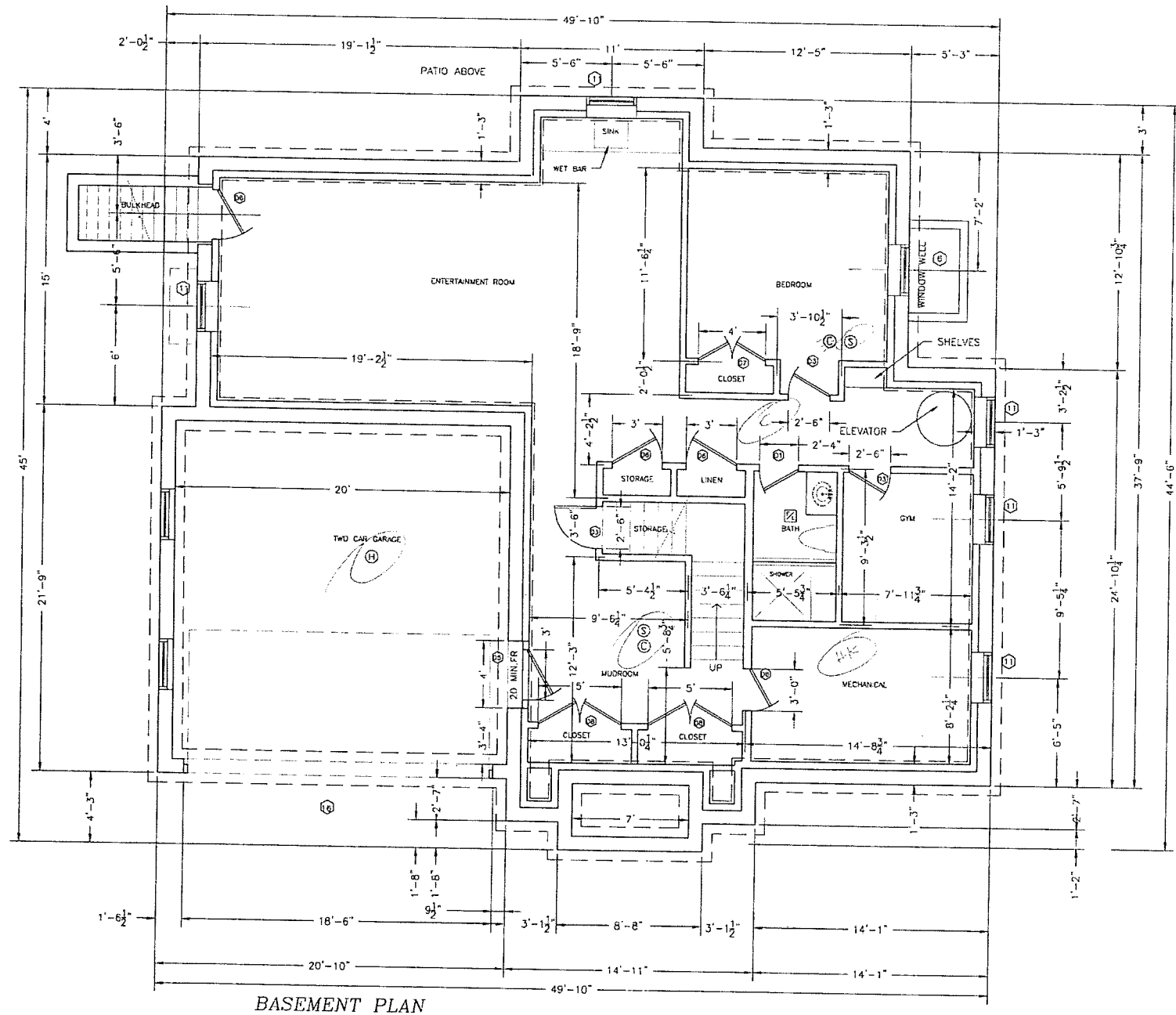
AS BUILT PLAN

36 WALSH STREET
NEWTON, MA 02459

SCALE: 1"=20' DATE: APRIL 16, 2020



A. MATTHEW BELSKI JR. P.L.S. No. 37557



BASEMENT PLAN

GENERAL NOTES

- All work shall conform to Massachusetts Building Code and all Federal, State and City of Newton laws, codes and regulations as each may apply.
- All existing conditions must be verified in field. If discrepancies are found, they have to be reported to the Engineer prior to start of work. Omissions or conflicts between the various elements of the working drawings and/or the specifications shall be brought to the attention of the Engineer prior to the start of such work.
- The contractor shall be responsible for coordinating the scheduling and work of all trades and shall check all dimensions. All discrepancies shall be called to the attention of the Engineer and shall be resolved prior to proceeding with the work.
- The Contractor shall supervise and direct the work and shall be solely responsible for the construction means, methods, techniques, sequences and procedures, including but not limited to bracing and shoring.
- The Contractor agrees that in accordance with generally accepted construction practices, the Contractor shall assume sole and complete responsibility for the job site conditions during the course of construction, including the safety of all persons and property, and that this requirement shall apply continuously and not be limited to normal working hours.
- All work shall be performed in a first class and workmanlike manner in conformity with the plans and specifications, and shall be in good usable condition at the completion of the Project.
- The Contractor shall field verify all existing conditions, utility locations and structure placement, prior to start of the work. The Contractor will observe all possible precautions to avoid damage to same. Any damage to existing structures and utilities, whether shown or not on the drawings, shall be repaired or replaced at the Contractor's expense.
- Prior to bidding the work the Contractor shall visit the site and thoroughly satisfy himself as to the actual conditions and quantities, if any. No claim against the Owner or Engineer will be allowed for any excess or deficiency therein, actual or relative.
- Contractor is responsible for all demolition and relocation works, if any.

NOTES:
 ALL EXTERIOR WALLS ARE 2"x6" @ 16" O.C.
 ALL INTERIOR WALLS ARE 2"x4" @ 16" O.C.

- LEGEND:
- ⊙ PHOTO ELECTRIC HARD WIRED SMOKE DETECTOR WITH SECONDARY (STANDBY) POWER SUPPLIED FROM MONITORED BATTERIES
 - ⊞ FAN/LIGHT TO BE VENTED DIRECTLY TO OUTSIDE
 - ⊕ CARBON MONOXIDE DETECTOR
 - ⊙ HARD WIRED HEAT DETECTOR WITH SECONDARY (STANDBY) POWER SUPPLIED FROM MONITORED BATTERIES

INTERIOR DOORS SCHEDULE:

- ⊙ 2'-4" x 7'-0"
- ⊙ 2'-4" x 8'-0"
- ⊙ 2'-6" x 7'-0"
- ⊙ 2'-6" x 8'-0"
- ⊙ 3'-0" x 7'-0" FIRE RATED
- ⊙ 3'-0" x 7'-0"
- ⊙ 4'-0" x 7'-0" DOUBLE SWING
- ⊙ 5'-0" x 7'-0" DOUBLE SWING
- ⊙ 6'-0" x 8'-0" DOUBLE SWING
- ⊙ 2'-0" x 7'-0"
- ⊙ 6'-0" x 8'-0" CASSED OPENING
- ⊙ 1'-6" x 7'-0"
- ⊙ 2'-0" x 8'-0"

DATE: 2/14/19

Plans have been reviewed and accepted
 Date: 2/14/19
 Designer: [Signature]
 Designer Submitted by Installer
 Reviewed Based on Plans Submitted

DATE	REVISION

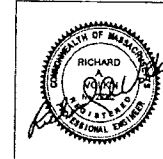
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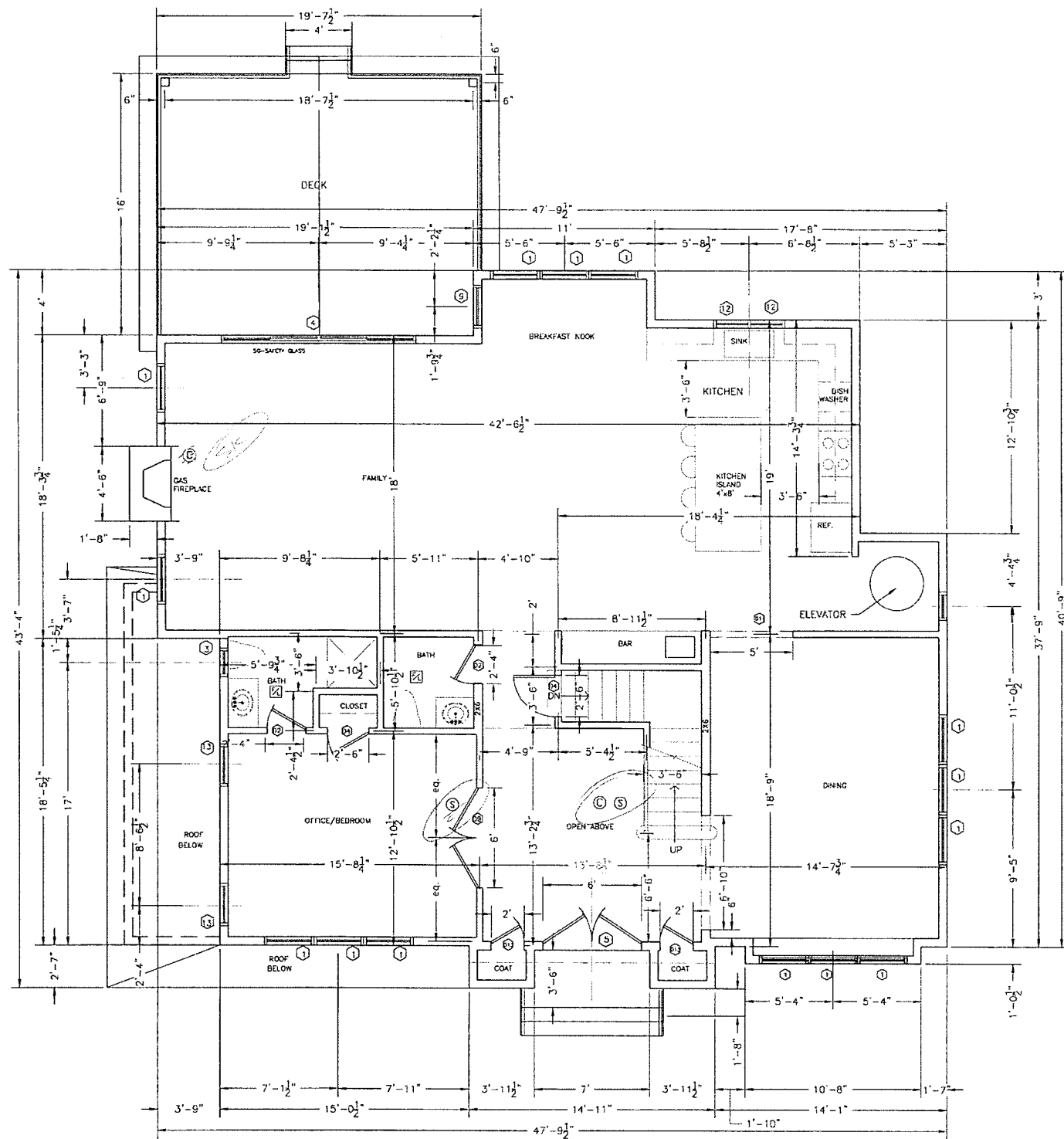
FINISHED BASEMENT PLAN
36 WALSH ROAD
NEWTON, MASSACHUSETTS

RAV & Assoc., Inc.
 21 HIGHLAND AVENUE
 NEEDHAM, MASSACHUSETTS 02494
 TELEPHONE: (781) 449-8200 FAX: (781) 449-8205

SCALE: 1/4"=1'

APPROVED: R.A.V.	DESIGNED BY: V.P.	DRAWING No.
DATE: 02/10/19	DRAWN BY: V.P.	A-1 OF A-4
	CHECKED BY: I.M.	

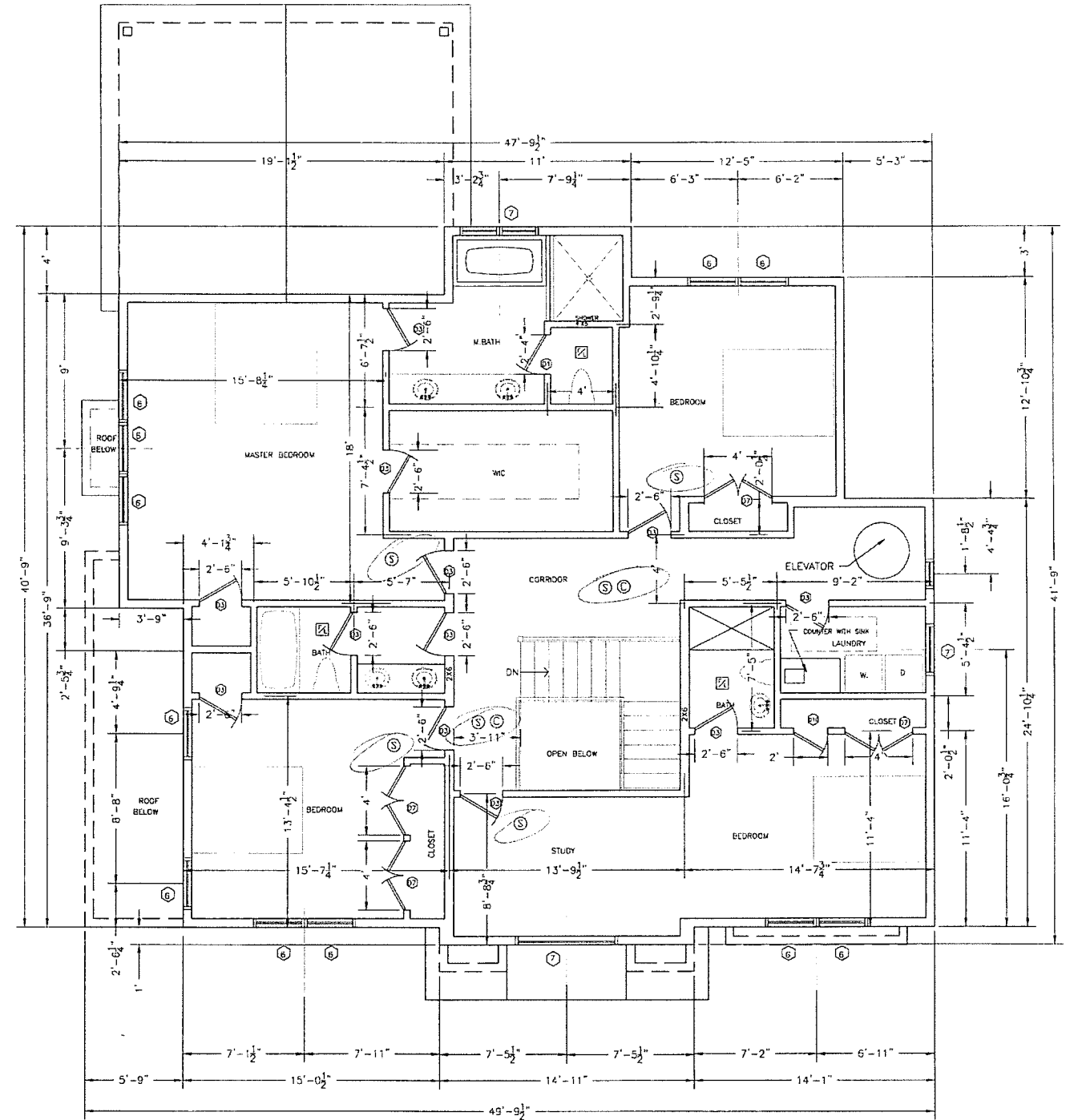




FIRST FLOOR PLAN

GFA (GROSS FLOOR AREA) CALCULATION:

ZONING DISTRICT: NEWTON, MA - SINGLE RESIDENCE 2 (SR2)
 NEW 10,048 SF LOT (WITH BONUS)
 ALLOWABLE FAR (FLOOR AREA RATIO): 10,048 X 0.38 = 3,818 SF
 1ST FLOOR 1731 SF
 2ND FLOOR 1656 SF
 BASEMENT INCLUDED IN FAR 363 SF (20%)
 TOTAL
 1731+1656+363=3790 SF
 3,790 SF < 3,818 SF



SECOND FLOOR PLAN

DATE	REVISION

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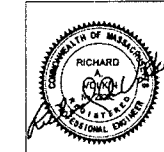
FIRST & SECOND FLOOR PLANS

36 WALSH ROAD
NEWTON, MASSACHUSETTS

RAV & Assoc., Inc.
 21 HIGHLAND AVENUE
 NEEDHAM, MASSACHUSETTS 02494
 TELEPHONE: (781) 449-8200 FAX: (781) 449-8205

SCALE: 1/4"=1'

APPROVED: R.A.V.	DESIGNED BY: V.P.	DRAWING No.
DATE: 02/10/19	DRAWN BY: V.P.	A-2 OF A-4
	CHECKED BY: I.M.	





FRONT ELEVATION



REAR ELEVATION

WINDOW SCHEDULE				
NUMBER	UNIT DIMENSIONS	COMPANY/MODEL	TYPE	REMARKS
1	2'-11 15/16" x 4'-11 7/8"	ANDERSEN CW13	CASEMENT LOW-E INSULATING GLASS	* EGRESS WINDOW GANGED W/ TRANSOM 2
2	2'-11 15/16" x 1'-0"	ANDERSEN CTR3010	TRANSOM LOW-E INSULATING GLASS	GANGED W/ CASEMENT 1
3	1'-8 1/2" x 3'-4 13/16"	ANDERSEN CW13	CASEMENT LOW-E INSULATING GLASS	BATHROOM/BATH
4	11'-0" x 7'-11 1/2"	ANDERSEN FWD 12000-4	FRENCHWOOD GLAZING PATIO DOOR LOW-E INSULATING SAFETY GLASS	SG-SAFETY GLASS
5	8'-0" x 7'-11 1/2"	CUSTOM	LOW-E INSULATING GLASS	* FROM DOOR SG-SAFETY GLASS
6	2'-11 15/16" x 4'-11 7/8"	ANDERSEN CW13	CASEMENT LOW-E INSULATING GLASS	* EGRESS WINDOW BEDROOMS
7	2'-4 3/8" x 4'-4 13/16"	ANDERSEN CW145	CASEMENT LOW-E INSULATING GLASS	MASTER BATH ABOVE TUB SG-SAFETY GLASS
8	5'-11 1/4" x 6'-2 1/4"	ANDERSEN AFFR0050	SPECIALTY ARCH WINDOW LOW-E INSULATING GLASS	ARIST ENTRANCE DOOR
9	2'-7 1/2" x 4'-11 7/8"	ANDERSEN CA10	CASEMENT LOW-E INSULATING GLASS	BACK BAY
10	2'-7 1/2" x 1'-0"	ANDERSEN CTR1010	TRANSOM LOW-E INSULATING GLASS	GANGED W/ CASEMENT 9
11	2'-11 15/16" x 2'-11 15/16"	ANDERSEN CW13	LOW-E INSULATING GLASS	BASEMENT WINDOW
12	2'-0 1/8" x 4'-0"	ANDERSEN C14	CASEMENT LOW-E INSULATING GLASS	KITCHEN
13	2'-4 3/8" x 4'-11 7/8"	ANDERSEN CW13	CASEMENT LOW-E INSULATING GLASS	OFFICE/BEDROOM, MBR
14	2'-4 3/8" x 1'-0"	ANDERSEN CTR2410	TRANSOM LOW-E INSULATING GLASS	GANGED W/ CASEMENT 13
15	2'-0 1/8" x 1'-0"	ANDERSEN CTR210	TRANSOM LOW-E INSULATING GLASS	GANGED W/ CASEMENT 12
16	18'-0" x 5'-0"	EVERITE CUSTOM	CASEMENT DOUBLE OVERHEAD GARAGE DOOR W/ TEMPERED GLASS	SG-SAFETY GLASS
17	1'-8 1/2" x 5'-11 7/8"	ANDERSEN CW16	CASEMENT LOW-E INSULATING GLASS	
18	1'-8 1/2" x 4'-11 7/8"	ANDERSEN CW15	CASEMENT LOW-E INSULATING GLASS	

CASEMENT WINDOWS BY ANDERSEN WITH LOW-E INSULATING GLASS, UNLESS NOTED OTHERWISE
 * EGRESS WINDOW MEETS OR EXCEEDS CLEAR OPENING OF 5.7 SF, CLEAR WIDTH 20" AND CLEAR HEIGHT 24"
 SG-SAFETY GLASS

NOTES:
 CONTRACTOR MUST VERIFY ALL SIZES AND ROUGH OPENINGS PRIOR TO ORDERING WINDOWS.
 CONTACT WINDOW MANUFACTURER FOR DETAILS, CONTACT THE OWNER FOR FINAL SELECTION
 OF DOORS AND WINDOWS PRIOR TO ORDERING AND PRIOR TO FRAMING DOOR AND WINDOW OPENINGS
 VERIFY CLEAR OPENINGS IN ALL BEDROOMS. MINIMUM CLEAR OPENING MUST BE 20 IN (W) x 24 IN (H)
 AND HAVE MINIMUM OF 5.7 SF OF CLEAR OPEN AREA.
 VERIFY LOCATIONS OF SAFETY GLASS WINDOWS AND DOORS PRIOR TO ORDERING WINDOWS AND DOORS.
 SPECIFIC LOCATIONS:
 1. GLAZING IN INGRESS AND MEANS OF EGRESS DOORS;
 2. GLAZING IN FIXED AND SLIDING PANELS OF SLIDING DOORS AND SWINGING DOORS;
 3. GLAZING IN STORM DOORS;
 4. GLAZING IN UNFRAMED SWINGING DOORS;
 5. GLAZING IN DOORS AND ENCLOSURES FOR BATHTUBS, STEAM ROOMS AND SHOWERS. GLAZING IN ANY PORTION OF A BUILDING WALL ENCLOSED THESE COMPONENTS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 50 INCHES ABOVE A STANDING SURFACE.
 6. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL ADJACENT TO A DOOR WHERE THE NEAREST EXPOSED EDGE OF THE GLAZING IS WITHIN A 24-INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE.
 7. GLAZING IN AN INDIVIDUAL FIXED OR OPERABLE PANEL WHICH MEETS THE FOLLOWING CONDITIONS:
 a) EXPOSED AREA OF AN INDIVIDUAL PANE GREATER THAN 9 S.F.;
 b) EXPOSED BOTTOM EDGE LESS THAN 18 INCHES ABOVE THE FLOOR;
 c) EXPOSED TOP EDGE GREATER THAN 36" ABOVE THE FLOOR;
 d) ONE OR MORE WALKING SURFACES WITHIN 36 INCHES HORIZONTALLY OF THE PLANE OF THE GLAZING.

DATE	REVISION

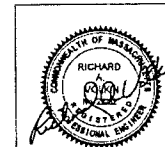
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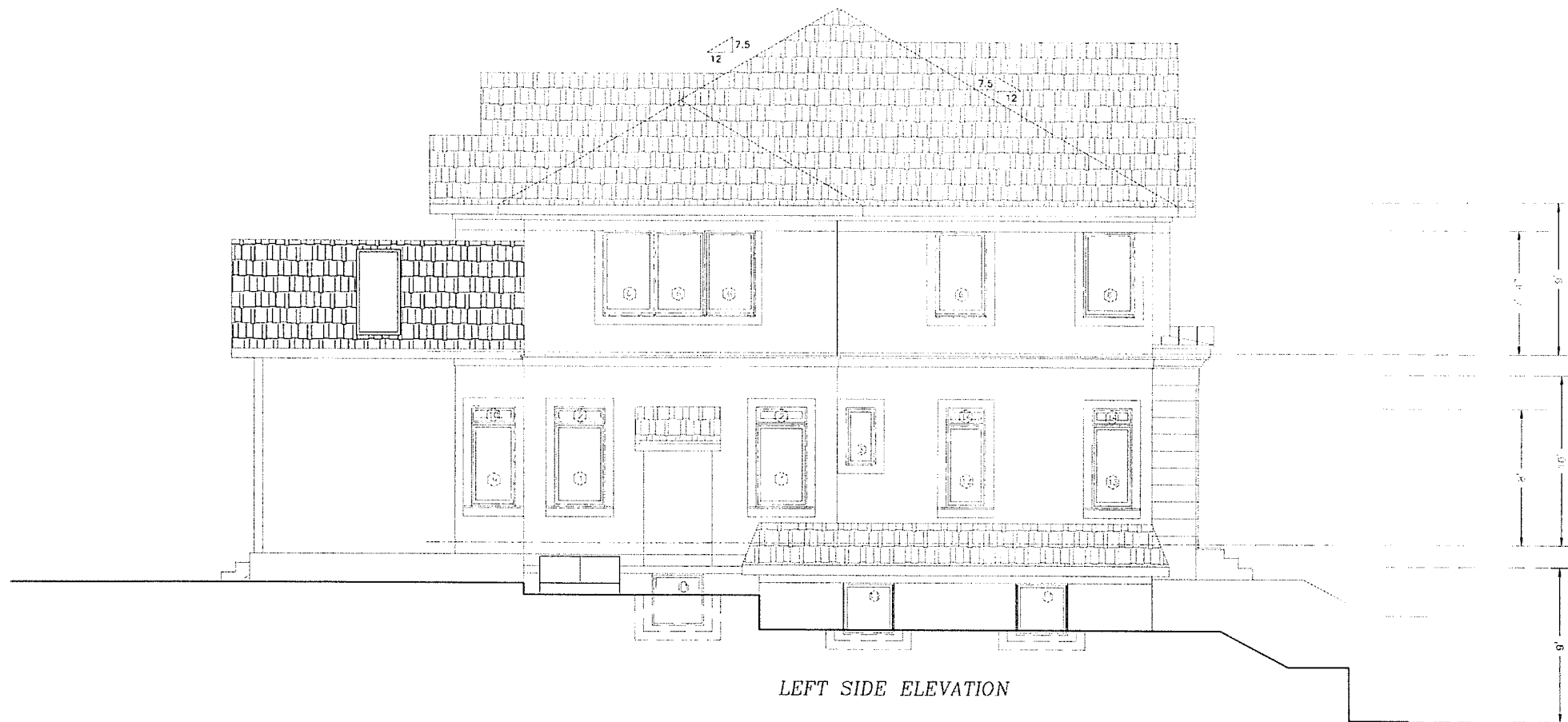
FRONT AND REAR ELEVATIONS
36 WALSH ROAD
NEWTON, MASSACHUSETTS

RAV & Assoc., Inc.
 21 HIGHLAND AVENUE
 NEEDHAM, MASSACHUSETTS 02494
 TELEPHONE: (781) 449-8200 FAX: (781) 449-8205

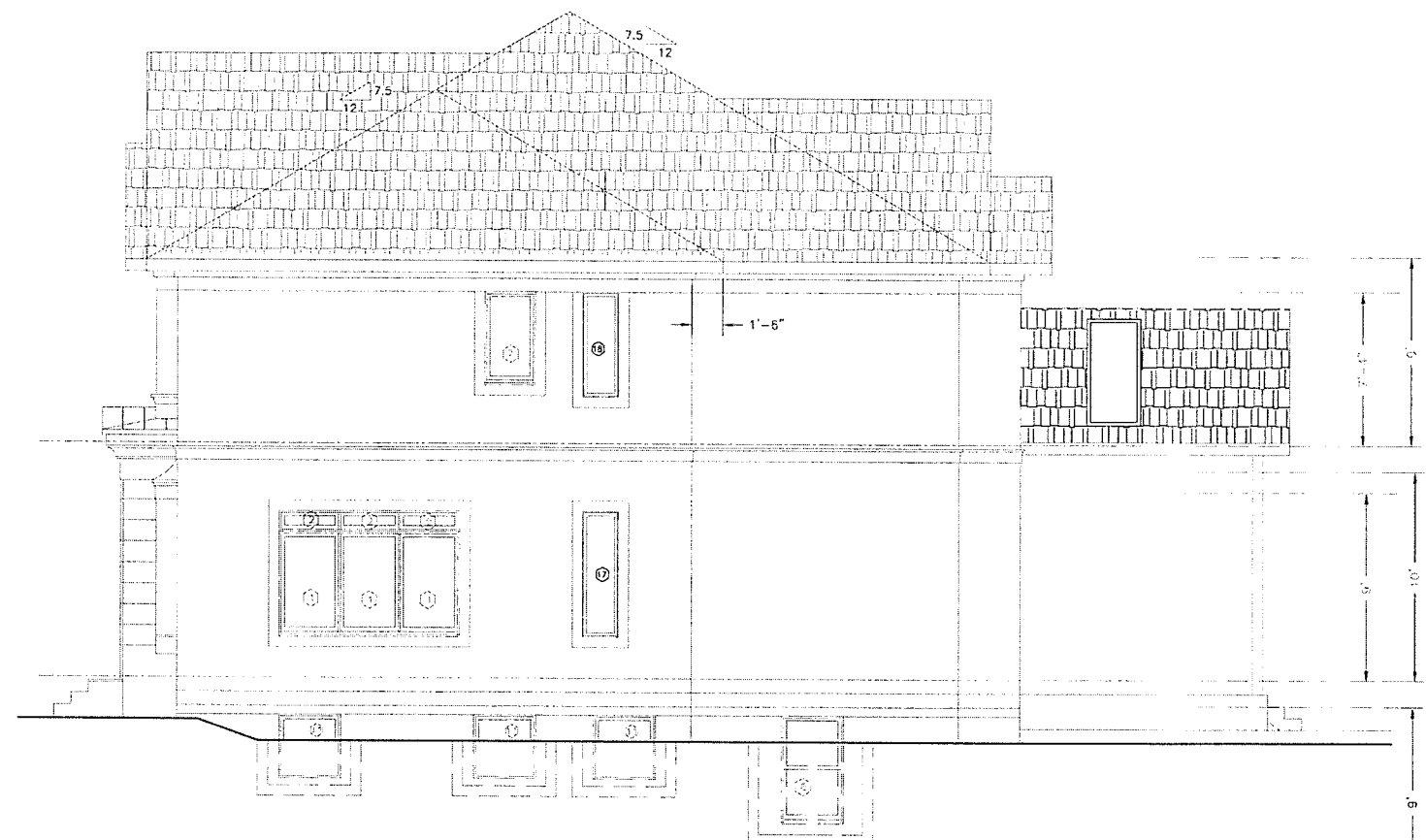
SCALE: 1/4"=1'

APPROVED: R.A.V.	DESIGNED BY: V.P.	DRAWING No.
DATE: 02/10/19	DRAWN BY: V.P.	A-3 OF A-4
	CHECKED BY: I.M.	





LEFT SIDE ELEVATION



RIGHT SIDE ELEVATION

DATE	REVISION

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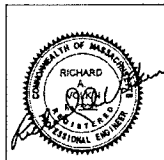
SIDE ELEVATIONS

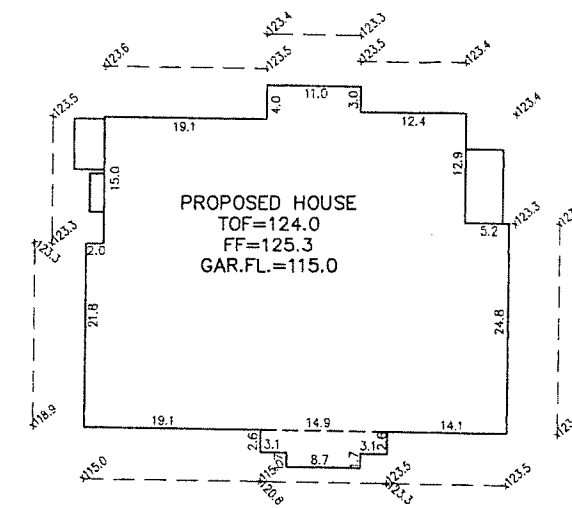
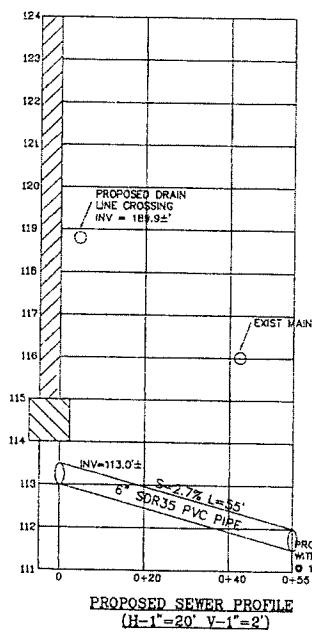
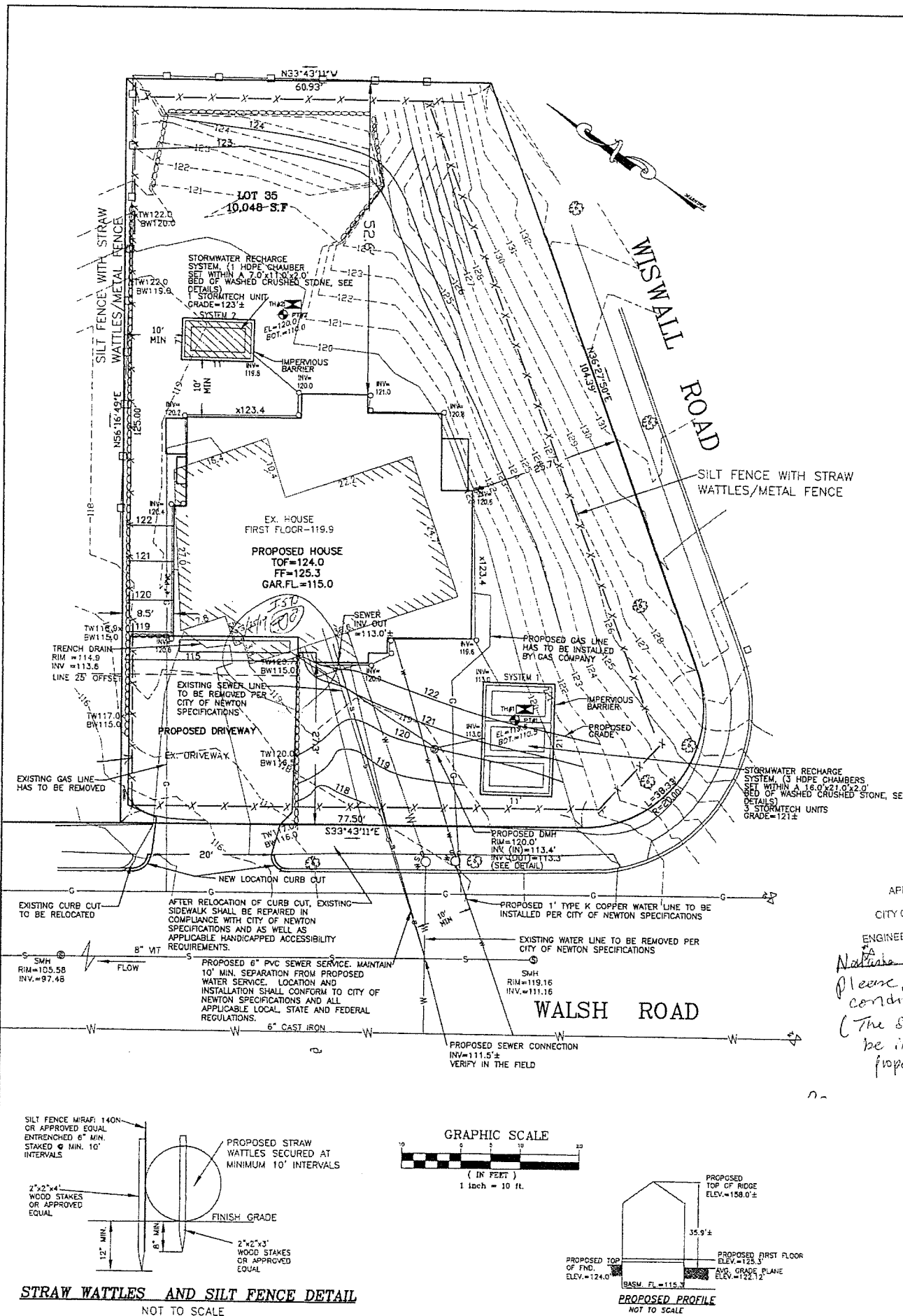
**36 WALSH ROAD
NEWTON, MASSACHUSETTS**

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TELEPHONE: (781) 449-8200 FAX: (781) 449-8205

SCALE: 1/4"=1'

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DATE: 02/10/19	DRAWN BY: V.P.	A-4 OF A-4
	CHECKED BY: I.M.	





AVERAGE GRADE PLANE

SEGMENT	LENGTH	POINT 1	POINT 2	MEAN 1&2	MEAN LENGTH
1	21.8	118.9	123.3	121.1	2,640.0
2	15.0	122.3	123.5	122.9	1,843.5
3	19.7	123.6	123.5	123.6	2,360.8
4	11.0	123.4	123.3	123.4	1,357.4
5	12.4	123.5	123.4	123.4	1,530.2
6	12.9	123.4	123.3	123.4	1,591.9
7	24.8	123.4	123.4	123.4	3,060.3
8	14.1	123.5	123.5	123.5	1,741.4
9	14.9	123.5	120.8	122.2	1,820.8
10	18.1	119.0	115.0	115.0	2,081.5
SUM OF MEAN X LENGTH / SUM OF LENGTHS = AVERAGE GRADE PLANE =					122.12'

ZONING LEGEND

ZONING DISTRICT: SINGLE RESIDENCE 2 (LOT CREATED BEFORE 12/07/1953)

	REQUIRED	PROPOSED	COMPLIANCE
MIN. AREA	10,000 S.F.	10,048 S.F.±	YES
MIN. FRONTAGE	80'	220.22'	YES
MIN. YARD FRONT	25'	25.7'	YES
SIDE	7.5'	8.5'	YES
REAR	15'	52.6'	YES
MAX. LOT COV.	30%	18.1%	YES
MIN. OPEN SPACE	50%	72.8%	YES
MAX. BLDG. HEIGHT	36'	35.9'±	YES
MAX. STORIES	2.5	2.5	YES

- NOTES:**
- ELEVATIONS REFER TO CITY OF NEWTON DATUM.
 - APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ANY CROSSINGS OF PROPOSED AND EXISTING UTILITIES.
 - MASSACHUSETTS STATE LAW REQUIRES UTILITY NOTIFICATION AT LEAST THREE BUSINESS DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CALL DIG-SAFE AT 1-888-344-7233 IN ORDER TO COMPLY WITH STATE LAW.
 - ALL UTILITY CONSTRUCTION SHALL CONFORM TO THE CITY OF NEWTON GENERAL CONSTRUCTION DETAILS, LATEST EDITION, PREPARED AND ISSUED BY THE NEWTON ENGINEERING DEPARTMENT. COPIES MAY BE OBTAINED AT THE OFFICE OF THE CITY ENGINEER. REFER TO NOTE 29 FOR DETAILS.
 - PROPOSED SEWER PIPE SHALL BE 6" PVC SDR 35.
 - PROPOSED WATER SERVICE SHALL BE 1" TYPE K COPPER.
 - THIS PLAN IS THE RESULT OF AN INSTRUMENT SURVEY DONE ON THE GROUND 11/17/2014.
 - ALL WORK SHALL BE SUBJECT TO THE INSPECTION BY AND APPROVAL OF THE CITY ENGINEER.
 - NO EXCAVATION SHALL BE MADE BY THE CONTRACTOR IN ANY PUBLIC WAY OR UTILITY EASEMENT UNLESS AT LEAST FORTY-EIGHT (48) HOURS EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS, BEFORE THE PROPOSED EXCAVATION IS TO BE MADE. HE HAS SUBMITTED BY REGISTERED MAIL, WRITTEN NOTICE OF THE PROPOSED EXCAVATION TO THE FOLLOWING:
 - SUCH PUBLIC UTILITY COMPANIES AS SUPPLY GAS, ELECTRICITY, AND TELEPHONE SERVICE IN THE CITY;
 - SUCH PRIVATE COMPANIES AS PROVIDE CABLE TELEVISION SERVICE IN THE CITY;
 - CITY OF NEWTON WATER & SEWER DEPARTMENT.
 SUCH NOTICE SHALL SET FORTH THE STREET NAME AND A REASONABLY ACCURATE DESCRIPTION OF THE LOCATION OF THE EXCAVATION.
 - THE CONTRACTOR SHALL PROVIDE CITY OF NEWTON POLICE OFFICERS FOR THE DIRECTION AND CONTROL OF TRAFFIC AS REQUIRED BY THE CITY ENGINEER.
 - NO WORK SHALL BE PERFORMED UNTIL THE NECESSARY PERMITS ARE OBTAINED FROM THE CITY OF NEWTON PUBLIC WORKS DEPARTMENT.
 - ALL TRENCHES IN PAVED STREETS SHALL BE TEMPORARILY PATCHED WITH 1.5 INCH DEPTH OF BITUMINOUS CONCRETE, LAID HOT AND MAINTAINED UNTIL THE PERMANENT PATCH IS INSTALLED.
 - WARNING SIGNS SHALL CONFORM TO PAGE 12 OF THE CITY OF NEWTON GENERAL CONSTRUCTION DETAILS.
 - ALL TOPSOIL, SUBSOIL OR IMPERVIOUS SOIL MUST BE EXCAVATED AND REMOVED BELOW THE LEACHING SYSTEM AND TO A DISTANCE 5' LATERALLY IN ALL DIRECTIONS BEYOND THE SIDES OF THE GALLEY BACKFILL AS REQUIRED WITH A CLEAN GRANULAR SAND FREE FROM ORGANIC MATTER AND DELETERIOUS SUBSTANCES. THE SAND SHALL HAVE A PERCOLATION RATE OF 2 MINUTES PER INCH OR FASTER.
 - IN CASES WHERE LEDGE OR BOULDERS ARE ENCOUNTERED, RAY & ASSOCIATES, INC. WILL NOT BE RESPONSIBLE FOR THE AMOUNT OF ROCK ENCOUNTERED.
 - IF ANY PART OF THIS DESIGN IS TO BE ALTERED IN ANY WAY, THE DESIGN ENGINEER, AS WELL AS THE APPROVING AUTHORITIES, SHALL BE NOTIFIED IN WRITING BEFORE CONSTRUCTION.
 - THE ROOF RUNOFF FROM THE ROOF SURFACES SHALL BE COLLECTED BY GUTTERS AND DIRECTED TO THE STORM WATER DRAINAGE SYSTEM.
 - PRIOR TO AN OCCUPANCY PERMIT BEING ISSUED, AN AS-BUILT PLAN SHOULD BE SUBMITTED TO THE ENGINEERING DIVISION IN BOTH DIGITAL FORMAT AND HARD COPY. THE PLAN SHOULD SHOW ALL UTILITIES AND TRENCH GRADINGS, ANY EASEMENTS AND FINAL GRADINGS AND CONNECTION POINTS AT MAINS, STRUCTURE ACCESS/MAINTENANCE COVERS, ANY EASEMENTS AND UTILITIES CONNECTION PERMITS AS WELL AS A SIDEWALK CROSSING PERMIT WITH THE DPW.
 - THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE DESIGN ENGINEER FOR INSPECTIONS OR AS-BUILT LOCATIONS. RAY & ASSOCIATES, INC. WILL NOT PROVIDE AS-BUILT CERTIFICATION TO UNINSPECTED BACKFILLED UTILITIES. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED PRIOR TO INSPECTIONS.
 - ANY PROPOSED PVC PIPES UNDER PAVING OR CONCRETE WITH LESS THAN 30" OF COVER MUST BE ENCASED IN CONCRETE. (SEE PAGE 21, CITY OF NEWTON GENERAL CONSTRUCTION DETAILS.)
 - THE EXISTING WATER & SEWER SERVICES SHALL BE CUT AND CAPPED AT THE MAIN AND BE COMPLETELY REMOVED FROM THE SITE, REPLACED AS SPECIFIED AND PROPERLY BACKFILLED. THE ENGINEERING DIVISION MUST INSPECT THIS WORK. FAILURE TO HAVE THIS WORK INSPECTED MAY RESULT IN THE DELAY OF ISSUANCE OF THE UTILITY CONNECTION PERMIT.
 - THE CONTRACTOR SHALL NOTIFY THE ENGINEERING DIVISION 48 HOURS IN ADVANCE AND SCHEDULE AN APPOINTMENT TO HAVE THE DRAINAGE SYSTEM WATER & SEWER SERVICES INSPECTED. THE SYSTEM & UTILITIES MUST BE FULLY EXPOSED FOR THE INSPECTOR. ONCE THE INSPECTOR IS SATISFIED, THE ENGINEERING DIVISION MUST INSPECT THIS WORK. FAILURE TO HAVE THIS WORK INSPECTED MAY RESULT IN THE DELAY OF ISSUANCE OF THE UTILITY CONNECTION PERMIT.
 - IF A CERTIFICATE OF OCCUPANCY IS REQUESTED PRIOR TO ALL SITE WORK BEING COMPLETED, THE APPLICANT WILL BE REQUIRED TO POST A CERTIFIED BANK CHECK IN THE AMOUNT TO COVER THE REMAINING WORK. THE CITY ENGINEER SHALL DETERMINE THE VALUE OF THE UNCOMPLETED WORK.
 - NO WORK IS ALLOWED WITHIN A CITY OF NEWTON RIGHT-OF-WAY BETWEEN NOVEMBER 15TH AND APRIL 15TH. IF AN EMERGENCY EXISTS OR THERE ARE EXTENUATING CIRCUMSTANCES, APPLICANT MAY REQUEST PERMISSION FROM THE CITY ENGINEER. IF ALLOWED, SPECIAL CONSTRUCTION REQUIREMENTS WILL BE REQUIRED, AND AS SUCH IT IS RECOMMENDED THAT THE APPLICANT OR APPLICANTS REPRESENTATIVE CONTACT THE CITY OF NEWTON ENGINEERING DEPARTMENT PRIOR TO START OF WORK FOR CLARIFICATION.
 - AT THE END OF CONSTRUCTION, ALL DRAINAGE STRUCTURES ARE TO BE CLEANED OF SILT, STONES AND OTHER DEBRIS.
 - DURING CONSTRUCTION, THE EROSION CONTROL MEASURES SHALL BE INSPECTED ONCE PER WEEK AND WITHIN 24 HOURS OF ANY STORM EVENT GENERATING MORE THAN 1/2" OF RAINFALL. THE EROSION CONTROL MEASURES SHALL BE CLEANED REGULARLY AND ADJUSTED IF NECESSARY TO ENSURE THAT NO SOIL OR DEBRIS LEAVES THE SITE.
 - WITH EXCEPTION OF GAS UTILITY SERVICES, ALL UTILITY TRENCHES WITHIN ANY CITY OF NEWTON RIGHT-OF-WAY WILL BE BACKFILLED WITH TYPE IIE (EXCAVATABLE) CONTROLLED DENSITY FILL, AS SPECIFIED BY THE CITY OF NEWTON ENGINEERING SPECIFICATIONS.
 - ALL CONSTRUCTION ACTIVITIES WITHIN THE CITY OF NEWTON RIGHT-OF-WAY MUST FULLY COMPLY WITH ALL CITY OF NEWTON CONSTRUCTION AS WELL AS 521 CMR 21.00 AND 22.00.
 - THE NEW SEWER SERVICE LINE MUST BE PRESSURE TESTED PRIOR TO USE. THE RESULT OF THE TEST MUST BE PROVIDED TO THE ENGINEERING DIVISION PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY.
 - THE CONTRACTOR NEEDS TO NOTIFY THE ENGINEERING DIVISION 48 HOURS IN ADVANCE AND FULLY EXPOSED FOR THE INSPECTOR. ONCE THE INSPECTOR IS SATISFIED, THE SYSTEM MAY THEN BE CONSTRUCTED.
 - ALL SITUATION CONTROL NEEDS TO BE INSTALLED PRIOR TO ANY CONSTRUCTION. THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER'S OFFICE FOR APPROVAL PRIOR TO COMMENCEMENT.
 - ALL TRENCH EXCAVATION CONTRACTORS SHALL COMPLY WITH MGL CHAPTER 82A, TRENCH EXCAVATION SAFETY REQUIREMENTS, TO PROTECT THE GENERAL PUBLIC FROM UNAUTHORIZED ACCESS TO UNATTENDED TRENCHES. A TRENCH EXCAVATION PERMIT IS REQUIRED. THIS APPLIES TO ALL ENGINEER BASED DESIGN ON PROVIDED SURVEY. ENGINEER NOT RESPONSIBLE FOR ANY DISCREPANCY IN THE PROVIDED SURVEY.

- LEGEND**
- UTILITY POLE
 - WATER GATE
 - HYDRANT
 - GAS GATE
 - SEWER MANHOLE
 - DRAIN MANHOLE
 - CATCH BASIN
 - TREE
 - LIGHT POLE
 - SIGN
 - TO BE REMOVED
 - TO BE ABANDONED
 - DEEP TEST HOLE
 - PERCOLATION TEST
 - SPOT ELEVATION
 - PROPOSED CONTOUR
 - EXISTING CONTOUR
 - DRAIN LINE
 - WATER LINE
 - SEWER LINE
 - GAS LINE
 - FENCE
 - STONEWALL
 - HEDGE
 - TREE LINE
 - CLEAN CUT
 - TOP OF WALL
 - BOTTOM OF WALL
 - TOP OF CURB
 - BOTTOM OF CURB

APPROVED
CITY OF NEWTON
ENGINEERING DIVISION
Nathalie Blain DATE March 26, 2019
Please see approval memo for conditions.
(The silt fence with straw wattles must be installed along the edge of the property)

3-25-19 Revised
ISD - ENGINEERING PLAN REVIEW
APPROVED: *[Signature]*
DATE: 3-25-19
DESIGNED BY:
MIKHAIL DEYCHMAN
EMAIL: MDEYCHO@YAHOO.COM
TEL. (857) 498-0951

03/22/19 DATE TEST HOLE #2 REVISION

PROPOSED SITE PLAN

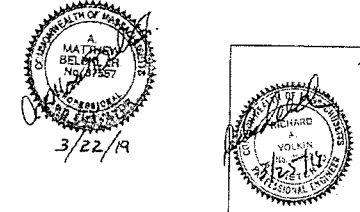
36 WALSH ROAD
NEWTON, MASSACHUSETTS

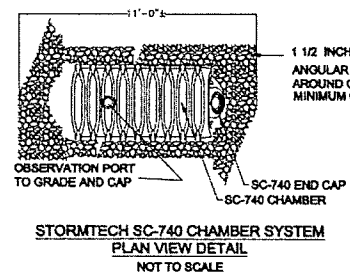
RAY & Assoc., Inc.
21 HIGHLAND AVENUE
NEEDHAM, MASSACHUSETTS 02021
TELEPHONE: (781) 449-6200

SCALE: NTS DATE: 02/12/19

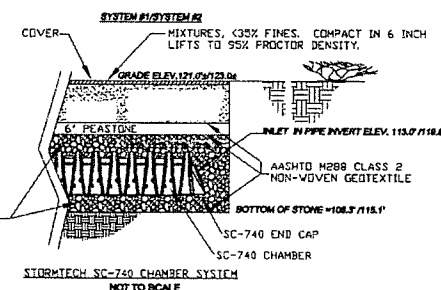
APPROVED: R.A.V. DESIGNED BY: M.D. DRAWING No. T-1

DRAWN BY: M.D.

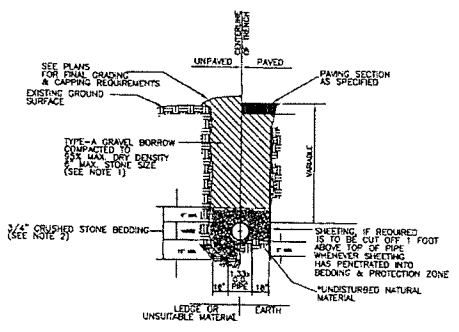




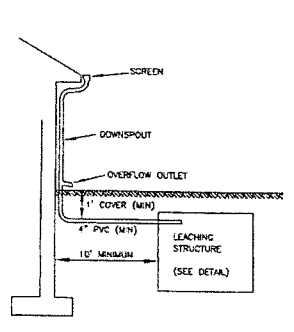
STORMTECH SC-740 CHAMBER SYSTEM
PLAN VIEW DETAIL
NOT TO SCALE



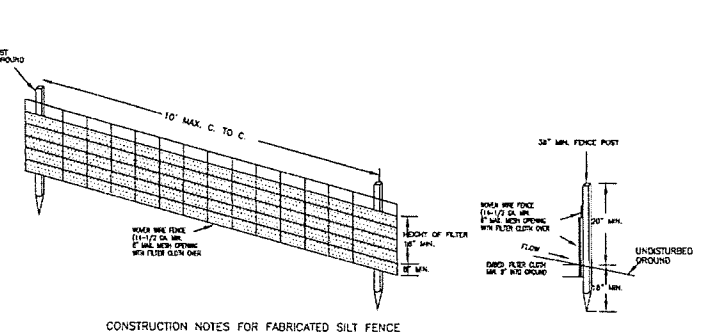
STORMTECH SC-740 CHAMBER SYSTEM
SECTION DETAIL
NOT TO SCALE



TYPICAL TRENCH DETAIL
N.T.S.

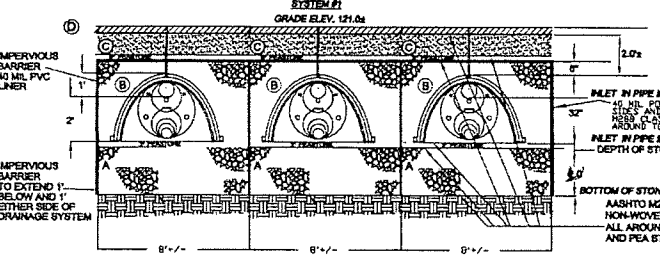


TYPICAL DOWNSPOUT DETAIL
N.T.S.

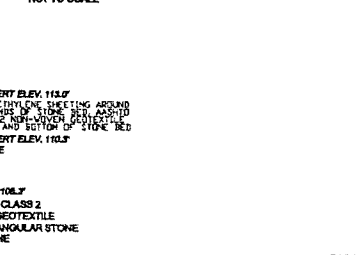


- CONSTRUCTION NOTES FOR FABRICATED SILT FENCE**
- WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
 - FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID-SECTION.
 - WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6" AND FOLDED.
 - MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
- POSTS: STEEL EITHER T OR U TYPE OR 2" HARDWOOD
FENCE: WOVEN WIRE, 14-1/2 GA. 6" MAX. MESH OPENING.
FILTER CLOTH: FILTER X, MIRAFI 100X, STABLIKA 1140N OR APPROVED EQUAL.
PREFABRICATED UNIT: GEOTAF ENVROFENCE, OR APPROVED EQUAL.

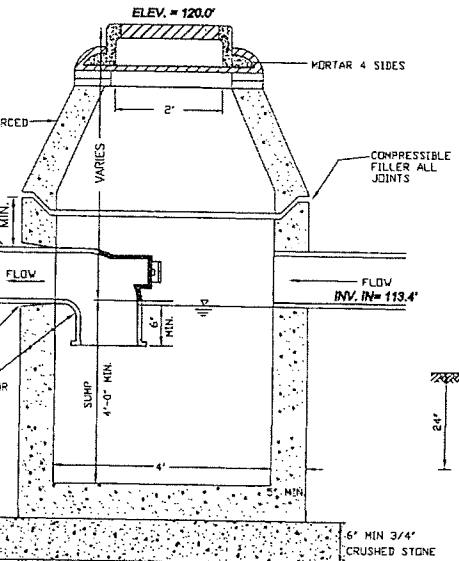
SILT FENCE DETAIL
TO BE PLACED ALONG PERIMETER OF PROPERTY



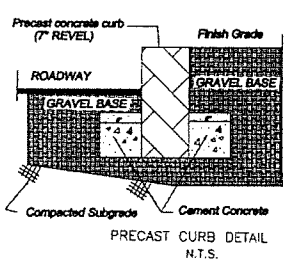
STORMTECH SC-740 CHAMBER SYSTEM
SECTION DETAIL
NOT TO SCALE



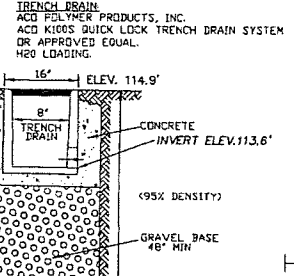
STORMTECH SC-740 CHAMBER SYSTEM
SECTION DETAIL
NOT TO SCALE



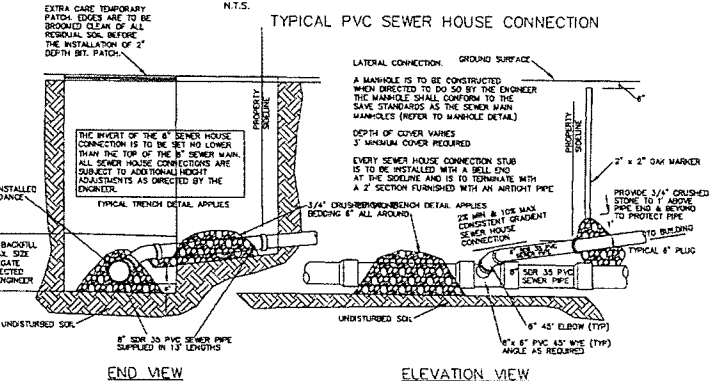
TYPICAL PRECAST CONCRETE MANHOLE
NOT TO SCALE



PRECAST CURB DETAIL
N.T.S.



TRENCH DRAIN DETAIL
NOT TO SCALE



TYPICAL PVC SEWER HOUSE CONNECTION
N.T.S.

DEEP OBSERVATION HOLE LOG #1
GENERAL SOIL CONDITIONS FOR THE AREA PERFORMED AT 36 WALSH ROAD BY RAV & ASSOCIATES, INC. HOLE NUMBER: 1 DATED: 01/07/2019
TP - 1 01/07/19
GENERAL SITE CONDITIONS: GRASS AND EDGE OF DRIVEWAY
GROUND WATER NOT FOUND > 3' STEEP HILL TOWARDS SIDE YARD NORTH EAST
PERCOLATION TEST DATE: 01/07/2019
PERFORMED BY: RICHARD A. VOLKIN, PE.
HOLE NUMBER: PT-1
PRESOAK AT 2.5', PERCOLATION RATE 10"/MIN
USE 15 MIN/INCH

DEEP OBSERVATION HOLE LOG #2
GENERAL SOIL CONDITIONS FOR THE AREA PERFORMED AT 36 WALSH ROAD BY RAV & ASSOCIATES, INC. HOLE NUMBER: 1 DATED: 03/22/2019
TP - 2 03/22/19
GENERAL SITE CONDITIONS: GRASS AND BUSHES
GROUND WATER NOT FOUND > 10' STEEP HILL TOWARDS SIDE YARD NORTH EAST
PERCOLATION TEST DATE: 03/22/2019
PERFORMED BY: RICHARD A. VOLKIN, PE.
HOLE NUMBER: PT-1
PRESOAK AT 2.5', PERCOLATION RATE 10"/MIN
USE 15 MIN/INCH

TP #1

ELEVATION	DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
119.5'-118.5'	0" - 12"	A		2.5 YR 3/1	NONE	SURFACE
118.5'-112.8'	12" - 80"	B	S	2.5 Y 5/3	NONE	NONE
112.8'-110.5'	80" - 108"	C	C	2.5 Y 4/3	NONE	SMALL PEBBLES

TP #2

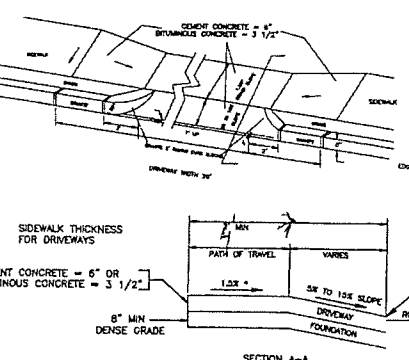
ELEVATION	DEPTH	HORIZON	TEXTURE	COLOR	MOTTLING	OTHER
120.0'-119.3'	0" - 8"	A ₀	SCL	10 YR 3/4	NONE	FRIABLE, PEBBLES
119.3'-114.5'	8" - 66"	B _w	SC	10 YR 4/6	NONE	FRIABLE, PEBBLES
114.5'-110.0'	66" - 120"	C	SC	2.5 Y 5/3	NONE	SMALL PEBBLES

STORMTECH GENERAL NOTES

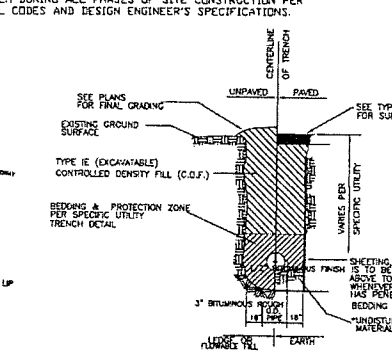
- STORMTECH LLC ("STORMTECH") REQUIRES INSTALLING CONTRACTORS TO USE AND UNDERSTAND STORMTECH'S LATEST INSTALLATION INSTRUCTIONS PRIOR TO BEGINNING SYSTEM INSTALLATION.
- STORMTECH'S REQUIREMENTS FOR SYSTEMS WITH PAVEMENT DESIGN (ASPHALT, CONCRETE PAVERS, ETC.) MINIMUM COVER IS 18 INCHES NOT INCLUDING PAVEMENT, MAXIMUM COVER IS 96 INCHES INCLUDING PAVEMENT. FOR INSTALLATIONS THAT DO NOT INCLUDE PAVEMENT, WHERE RUTTING FROM VEHICLES MAY OCCUR, MINIMUM REQUIRED COVER IS 24 INCHES, MAXIMUM COVER IS 96 INCHES.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE DESIGN ENGINEER.
- AASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE (FILTER FABRIC) MUST BE USED AS INDICATED IN THE PROJECT PLANS.
- STONE PLACEMENT BETWEEN CHAMBERS ROWS AND AROUND PERIMETER MUST FOLLOW INSTRUCTIONS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
- BACKFILLING OVER THE CHAMBERS MUST FOLLOW REQUIREMENTS AS INDICATED IN THE MOST CURRENT VERSION OF STORMTECH'S INSTALLATION INSTRUCTIONS.
- THE CONTRACTOR MUST REFER TO STORMTECH'S INSTALLATION INSTRUCTIONS FOR A TABLE OF ACCEPTABLE VEHICLE LOADS AT VARIOUS DEPTHS OF COVER. THIS INFORMATION IS AVAILABLE AT STORMTECH'S WEBSITE. CONTRACTOR IS RESPONSIBLE FOR PREVENTING VEHICLES THAT EXCEED STORMTECH'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE STORMTECH SYSTEM. TEMPORARY FENCING, WARNING TAPE AND APPROPRIATELY LOCATED SIGNS ARE COMMONLY USED TO PREVENT UNAUTHORIZED VEHICLES FROM ENTERING SENSITIVE CONSTRUCTION AREAS.
- THE CONTRACTOR MUST APPLY EROSION AND SEDIMENT CONTROL MEASURES TO PROTECT THE STORMTECH SYSTEM DURING ALL PHASES OF SITE CONSTRUCTION PER LOCAL CODES AND DESIGN ENGINEER'S SPECIFICATIONS.

ACCEPTABLE FILL MATERIALS
STORMTECH SC-740 CHAMBER SYSTEMS

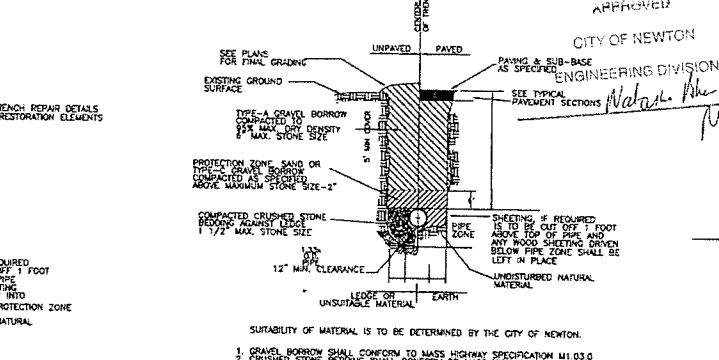
MATERIAL LOCATION	DESCRIPTION	AASHTO M43 DESIGNATION	AASHTO M148 DESIGNATION	COMPACTION/DENSITY REQUIREMENT
(1) FILL MATERIAL FROM 18" TO GRADE ABOVE CHAMBERS	ANY SOIL/ROCK MATERIALS, NATIVE SOILS OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	N/A	PREPARE PER ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
(2) FILL MATERIAL FOR 8" TO 18" ELEVATION ABOVE CHAMBERS (2" FOR UNPAVED INSTALLATIONS)	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES.	3, 357, 4, 467, 5, 66, 67, 6, 67, 68, 7, 78, 8, 88, 9, 10	A-1, A-2, A-3	COMPACT IN 6" LIFTS TO A MINIMUM 90% STANDARD PROCTOR DENSITY. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 20,000 LBS. DYNAMIC FORCE NOT TO EXCEED 20,000 LBS.
(3) EMBEDDED STONE SURROUNDING AND TO A 6" ELEVATION ABOVE CHAMBERS	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 1/2" - 2 INCH.	3, 357, 4, 467, 5, 66, 67	N/A	NO COMPACTION REQUIRED
(4) FOUNDATION STONE BELOW CHAMBERS	WASHED ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 1/2" - 2 INCH.	3, 357, 4, 467, 5, 66, 67	N/A	PLATE COMPACT OR ROLL TO ACHIEVE A 90% STANDARD PROCTOR DENSITY



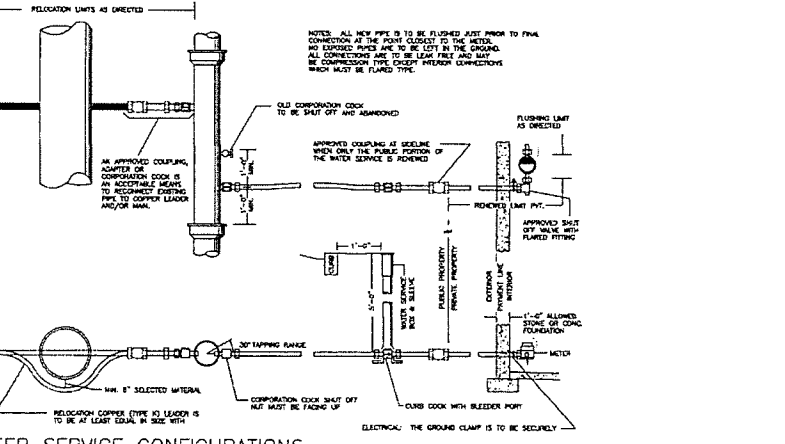
DRIVEWAY APRON WITH CORNER BLOCKS
SECTION A-A



TYPICAL WATER TRENCH DETAIL
N.T.S.

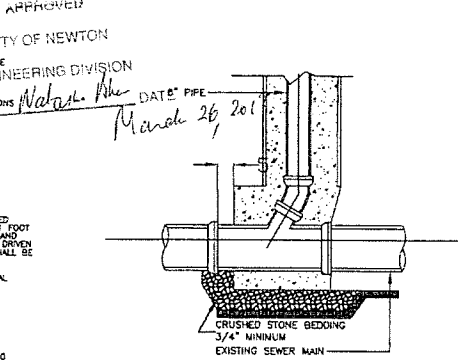


TYPICAL SEWER CONFIGURATION
N.T.S.

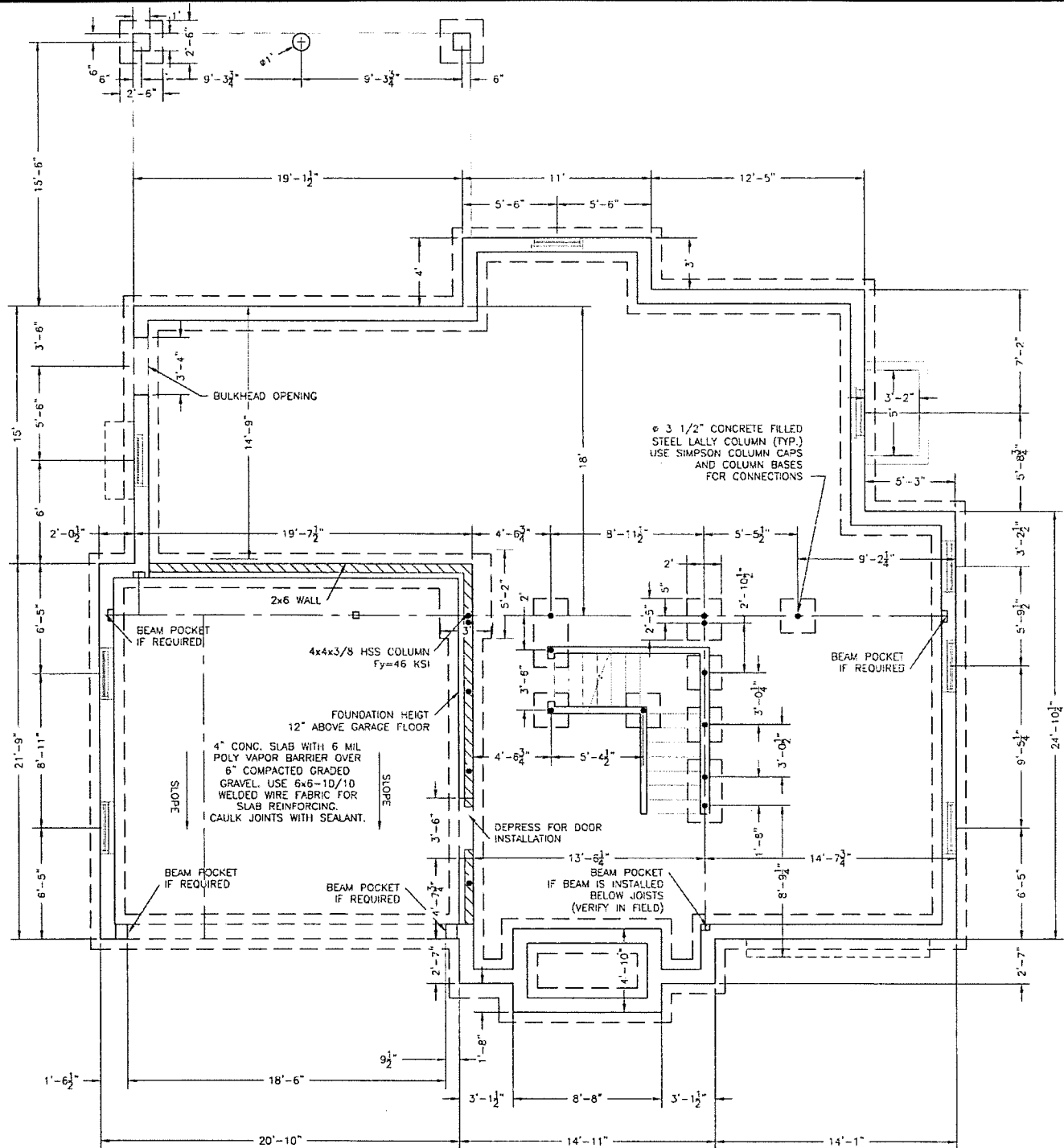


TYPICAL WATER SERVICE CONFIGURATIONS

03/22/19	TEST HOLE #2
DATE	REVISION
DETAILS	
36 WALSH ROAD NEWTON, MASSACHUSETTS	
RAV & Assoc., Inc. 21 HIGHLAND AVENUE NEEDHAM, MASSACHUSETT TELEPHONE: (781) 449-8200	
SCALE: 1"=10'	DATE: 02/12/19
APPROVED: R.A.V.	DESIGNED BY: M.D.
	DRAWN BY: M.D.
	DRAWING No. T-2



TYPICAL SEWER CONFIGURATION
N.T.S.

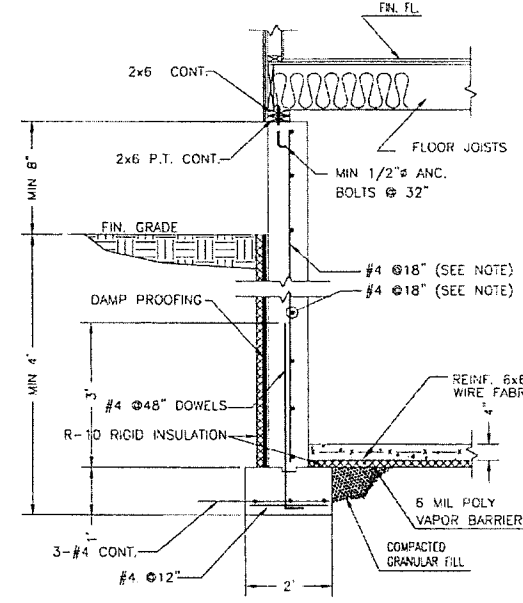


FOUNDATION PLAN

FOUNDATION NOTES:

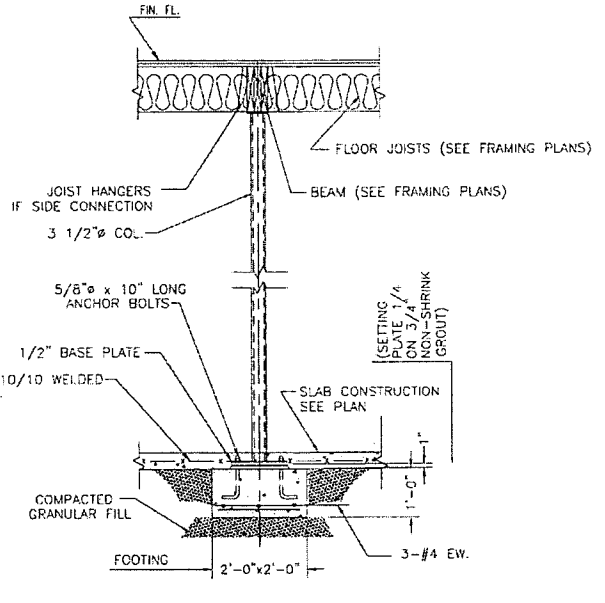
- A. GENERAL: (UNLESS OTHERWISE NOTED)
- 1.) ALL WORK SHALL CONFORM WITH THE MASS. STATE BUILDING CODE, THE CITY OF NEWTON ZONING BY LAWS, AND ALL APPLICABLE OSHA STANDARDS.
 - 2.) ANY WOOD FRAMING MEMBERS IN DIRECT CONTACT WITH CONCRETE SURFACES SHALL BE COATED WITH PRESERVATIVE.
 - 3.) ALL FOUNDATION WALLS SHALL BE BRACED DURING THE OPERATIONS OF BACKFILLING AND COMPACTION. BRACING SHALL BE LEFT IN POSITION UNTIL PERMANENT RESTRAINTS HAVE BEEN INSTALLED.
 - 4.) CONCRETE WALLS TO BE DAMPROOFED BELOW GRADE, EXTERIOR SIDE. LOCAL BUILDING DEPARTMENT SHALL INSPECT EXCAVATION PRIOR TO CONSTRUCTION OF FOOTING AND WALLS, AND AT OTHER INTERVALS IN ACCORDANCE WITH LOCAL STANDARD PRACTICES.
 - 5.) IF THE CONTRACTOR MAKES ANY CHANGES OR DEVIATES FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TOTAL DESIGN.
 - 6.) SLAB POURED ON GROUND SHALL REST AGAINST 6" COMPACTED SAND ON 1 LAYER OF POLYETHYLENE SHEETING (6 MILS).
- B. FOUNDATION REQUIREMENTS:
- 1.) THE BOTTOM OF FOOTINGS SHALL BEAR ON UNDISTURBED INORGANIC GRANULAR SOIL OR COMPACTED STRUCTURAL FILL WITH A SAFE ALLOWABLE BEARING PRESSURE OF MINIMUM 2 TONS/SQ FT.
 - 2.) IF ORGANICS ARE ENCOUNTERED IN THE EXCAVATION, WORK SHALL BE SUSPENDED AND THE ENGINEER CONTACTED PRIOR TO COMMENCING WORK.
 - 3.) CONCRETE SHALL BE PLACED "IN THE DRY" ONLY, AND NO CONCRETE SHALL BE PLACED ON FROZEN GROUND.
 - 4.) SPECIAL CARE SHALL BE TAKEN IN BACKFILLING WALLS AND UTILITY TRENCHES. BACKFILL MATERIAL SHALL BE COMPACTED IN 12" LAYERS MAXIMUM WITH POWER TAMPERS OR BY OTHER APPROVED EQUIPMENT.
 - 5.) WALLS RETAINING EARTH SHALL BE BACKFILLED EQUALLY EACH SIDE UNLESS ADEQUATELY BRACED.

- C. CONCRETE: (UNLESS OTHERWISE NOTED)
- 1.) CONCRETE WORK SHALL CONFORM TO THE LATEST AMERICAN CONCRETE INSTITUTE BUILDING CODE, STANDARDS, RECOMMENDED PRACTICES AND SPECIFICATIONS AS REVISED TO DATE.
 - 2.) CONCRETE SHALL BE MIXED IN THE SPECIFIED PROPORTIONS TO GIVE MINIMUM COMPRESSIVE STRENGTH AT THE END OF 28 DAYS OF 3500 PSI.
 - 3.) CONSTRUCTION JOINTS IN STRUCTURAL CONCRETE SHALL BE LOCATED IN THE MIDDLE THIRD OF THE SPAN OR OTHER APPROVED LOCATION OF MINIMUM SHEAR.
- D. REINFORCING STEEL: (UNLESS OTHERWISE NOTED)
- 1.) BARS SHALL BE HIGH BOND DEFORMED BARS MEETING ASTM A-615, GRADE 60.
 - 2.) WHERE OPENINGS OCCUR IN WALLS OR SLABS, PROVIDE 2 - #4 EACH FACE EACH SIDE OF OPENINGS AND EXTEND 2'-6" BEYOND OPENING.
 - 3.) SLABS ON GRADE SHALL BE REINFORCED WITH 6x6-W10x10 WELDED WIRE FABRIC. LAP CROSS WIRES ONE SPACE PLUS 2" ALL SIDES.
- E. MISCELLANEOUS: (UNLESS OTHERWISE NOTED)
- 1.) VERIFY IN FIELD ALL LOCATIONS AND CONDITIONS IN THE STRUCTURE SHOWN ON THE DRAWINGS AND/OR AFFECTING THE INSTALLATION OF NEW WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE FABRICATION OF DEPENDENT WORK.
 - 2.) IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE SHORING AND BRACING TO SAFELY SUPPORT THE BUILDING DURING CONSTRUCTION. ANY APPROVAL BY THE ENGINEER WILL NOT RELIEVE THE CONTRACTOR OF FULL RESPONSIBILITY FOR SHORING AND/OR BRACING.
 - 3.) DURING THE CONSTRUCTION PHASE OF THE PROJECT THE CONTRACTOR SHALL REVIEW DESIGN LOADS TO LIMIT AND CONTROL CONSTRUCTION LOADING, INCLUDING BUT NOT LIMITED TO MATERIAL STOCK PILING AND CONSTRUCTION EQUIPMENT.



TYPICAL FOUNDATION DETAIL

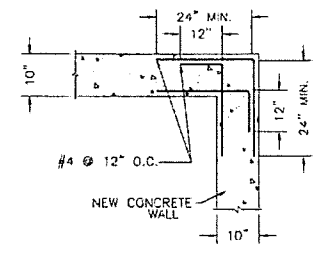
SCALE: NTS



TYPICAL COLUMN FOUNDATION DETAIL

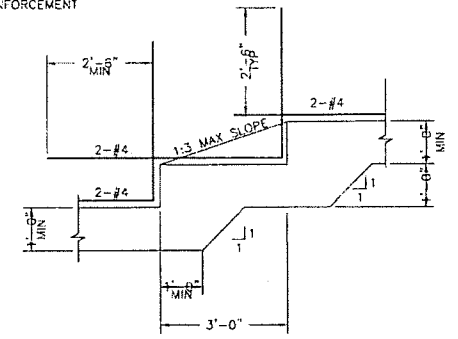
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NOTE:
REFER TO TABLES R404.1.2(4),
AND R404.1.2(9) FOR VERTICAL
REINFORCEMENT REQUIREMENT.
REFER TO TABLE R404.1.2(1)
FOR HORIZONTAL REINFORCEMENT
REQUIREMENT.



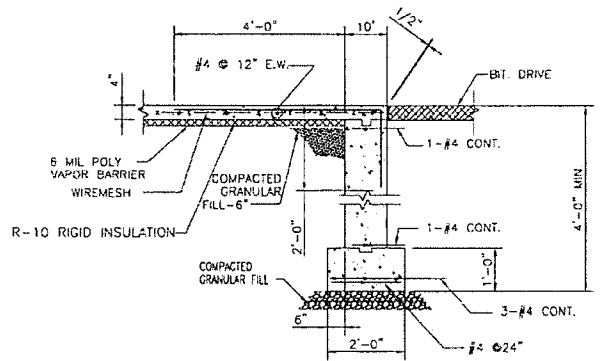
CORNER REINFORCEMENT
TYPICAL DETAIL

SCALE: NTS



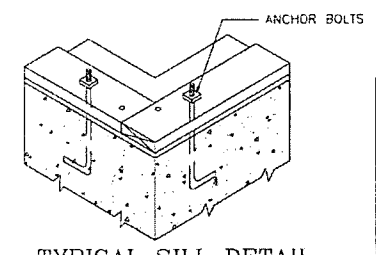
STEPPED FOOTING DETAIL

SCALE: NTS



TYPICAL GARAGE OPENING
FOUNDATION DETAIL

SCALE: NTS



TYPICAL SILL DETAIL

SCALE: NTS

DATE	REVISION

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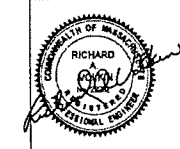
**FOUNDATION PLAN
TYPICAL DETAILS**

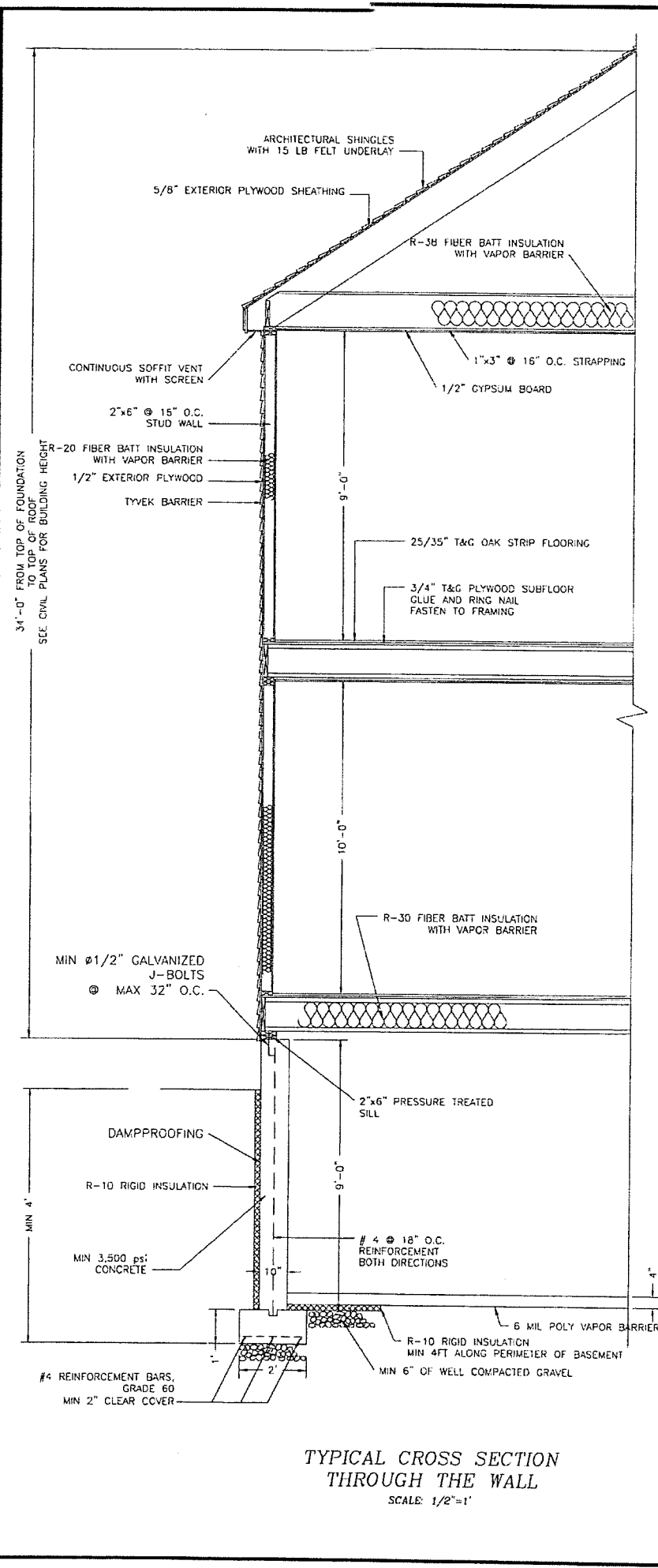
**36 WALSH ROAD
NEWTON, MASSACHUSETTS**

RAV & Assoc., Inc.
21 HIGHLAND AVENUE
NEEDHAM, MASSACHUSETTS 02454
TELEPHONE: (781) 449-8200 FAX: (781) 449-8205

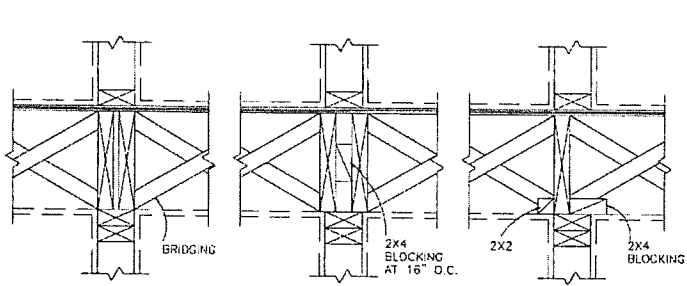
SCALE: 1/4"=1'

APPROVED: R.A.V.	DESIGNED BY: I.M.	DRAWING No.
DATE: 01/18/19	DRAWN BY: I.M.	S-1 OF S-5
	CHECKED BY: R.A.V.	

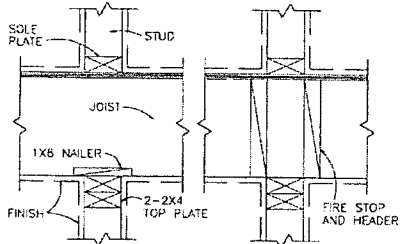




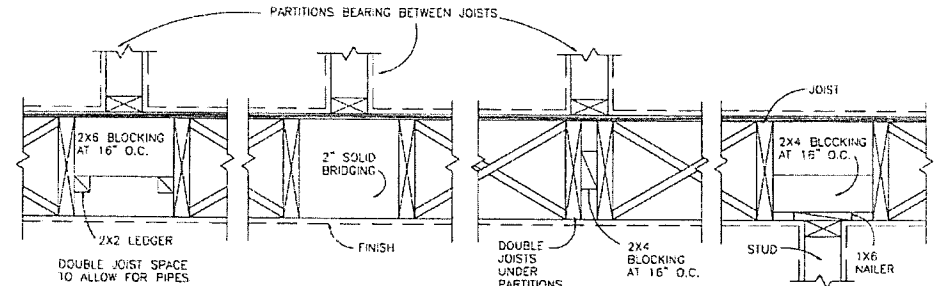
TYPICAL CROSS SECTION THROUGH THE WALL
SCALE: 1/2"=1'



PARTITIONS PARALLEL TO JOISTS

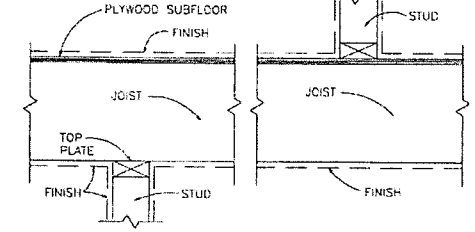


PARTITIONS PERPENDICULAR TO JOISTS BEARING INTERIOR PARTITIONS TYPICAL DETAILS



NO PARTITION BELOW

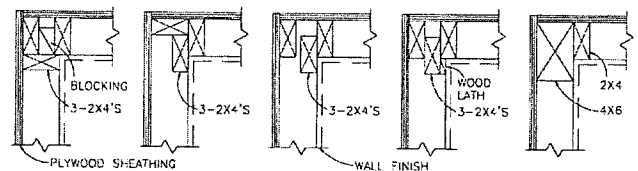
PARTITIONS PARALLEL TO JOISTS



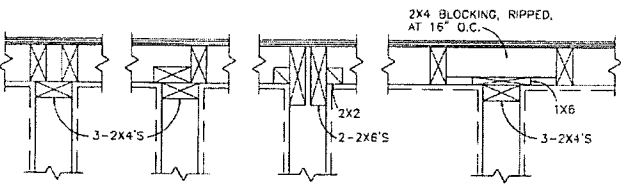
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NO PARTITION BELOW

PARTITIONS PERPENDICULAR TO JOISTS NONBEARING INTERIOR PARTITIONS TYPICAL DETAILS



PLANS OF OUTSIDE CORNERS

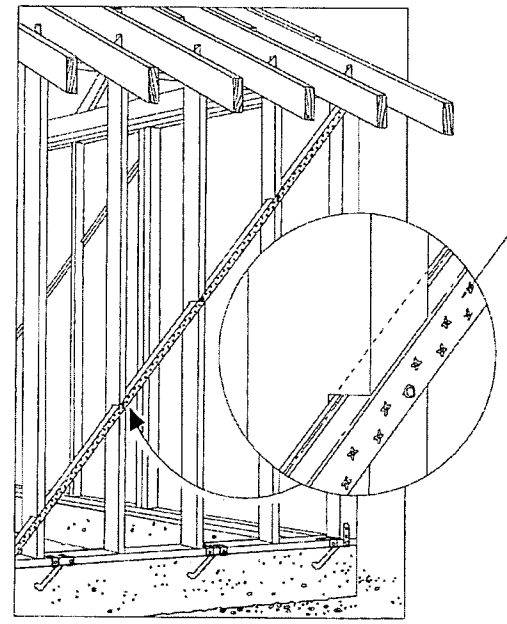


PLANS OF INTERSECTING PARTITIONS

NOTES:

CARPENTRY:

- ALL ROUGH CARPENTRY SHALL PRODUCE JOINTS TRUE, TIGHT, WITH ALL MEMBERS ASSEMBLED IN ACCORDANCE WITH THE DRAWINGS AND WITH ALL PERTINENT CODES AND REGULATIONS.
- CAREFULLY SELECT ALL MEMBERS. SELECT INDIVIDUAL PIECES SO THAT KNOTS AND DEFECTS WILL NOT INTERFERE WITH PLACING BOLTS OR PROPER NAILING OR MAKING CONNECTIONS.
- LUMBER MAY BE REJECTED BY THE ENGINEER, WHETHER OR NOT IT HAS BEEN INSTALLED, FOR EXCESSIVE WARP, TWIST, BOW, CROOK, MILDEW, FUNGUS, OR MOLD, AS WELL AS FOR IMPROPER CUTTING AND FITTING.
- DO NOT SINK SILLS, JOISTS, SHORT STUDS, TRIMMERS, HEADERS, LINTELS, OR OTHER FRAMING COMPONENTS. USE ONLY TREATED LUMBER FOR ALL WOOD BLOCKS AND NAILING GROUNDS IN, OR IN CONTACT WITH CONCRETE.
- TREAT ALL WOOD LESS THAN TWO FEET ABOVE FINISHED GRADE BY SPRAYING WITH THE PRESERVATIVE TO A MINIMUM DISTANCE OF SIX INCHES FROM THE ENDS. PERFORM ALL TREATMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- IN ADDITION TO ALL FRAMING OPERATIONS NORMAL TO FABRICATION AND ERECTION INDICATED ON THE DRAWINGS, INSTALL ALL BACKING REQUIRED FOR WORK OF OTHER TRADES.
- MAKE ALL BEARINGS FULL FINISH ALL BEARING SURFACES ON WHICH STRUCTURAL MEMBERS ARE TO REST SO AS TO GIVE SURE AND EVEN SUPPORT; WHERE FRAMING MEMBERS SLOPE, CUT OR NOTCH THE ENDS AS REQUIRED TO GIVE UNIFORM BEARING SURFACE.
- INSTALL ALL BLOCKING REQUIRED TO SUPPORT ALL ITEMS OF FINISH AND TO CUT OFF ALL CONCEALED DRAFT OPENINGS, BOTH VERTICAL AND HORIZONTAL, BETWEEN CEILING AND FLOOR AREAS.
- FIRE BLOCKS SHALL BE TWO INCHES IN THICKNESS (NOMINAL) BY THE FULL WIDTH OF THE OPENING BEING BLOCKED.
- FIRE-BLOCK IN THE FOLLOWING SPECIFIC LOCATIONS:
 - (1) IN ALL STUD WALLS AT CEILING AND FLOOR LEVELS;
 - (2) IN ALL STUD WALLS, INCLUDING FURRED SPACES, SO THAT THE MAXIMUM DIMENSION OF EACH CONCEALED SPACE IS NOT MORE THAN EIGHT FEET;
 - (3) ALL OTHER LOCATIONS WHERE OPENINGS COULD AFFORD PASSAGE FOR RODENTS OR FLAMES.
- INSTALL WOOD CROSS BRIDGING OF NOT LESS THAN TWO INCHES BY THREE INCHES NOMINAL, METAL CROSS BRIDGING OF EQUAL STRENGTH, OR SOLID BLOCKING BETWEEN JOISTS WHERE THE SPAN EXCEEDS EIGHT FEET.
- INSTALL SOLID BLOCKING BETWEEN JOISTS AT ALL POINTS OF SUPPORT AND WHEREVER SHEATHING OR FLOORING IS DISCONTINUOUS.
- MAKE ALL STUDS SINGLE LENGTH, UNSPLICED, AND PLATFORM FRAMED. FRAME ALL CORNERS AND INTERSECTIONS WITH THREE OR MORE STUDS AND ALL REQUIRED BEARING FOR WALL FINISH.
- ON ALL FRAMING MEMBERS TO RECEIVE A FINISHED WALL OR CEILING, ALIGN THE FINISH SUBSURFACE TO VARY NOT MORE THAN 1/8" FROM THE PLANE OF SURFACES OF ADJACENT FRAMING AND FURRING MEMBERS.
- PLACE ALL PLYWOOD WITH FACE GRAIN PERPENDICULAR TO SUPPORTS AND CONTINUOUSLY OVER AT LEAST TWO SUPPORTS.
- ALL DOORS AND WINDOWS MUST BE INSTALLED WITH ALL NECESSARY APPURTENANCES AND TRIMS.



WALL BRACING TYPICAL DETAIL
SCALE: NTS



DATE	REVISION

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TYPICAL CROSS SECTION TYPICAL DETAILS

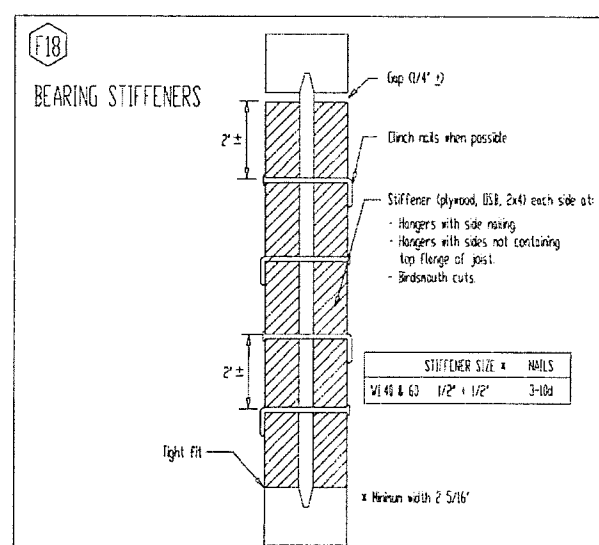
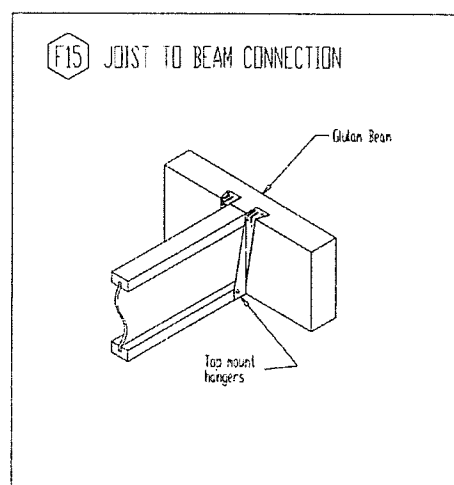
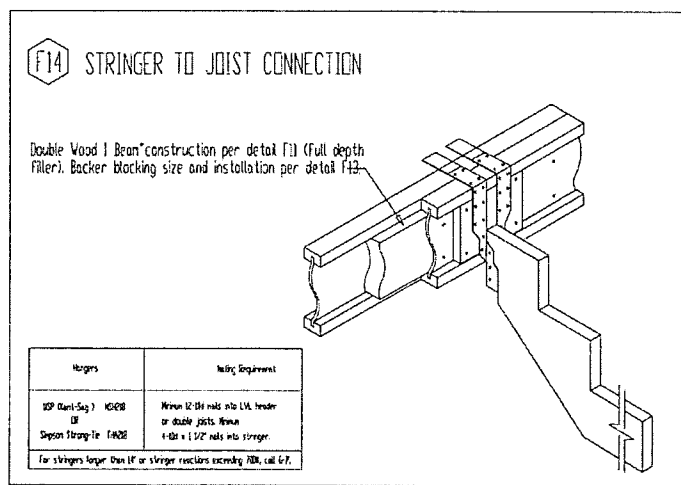
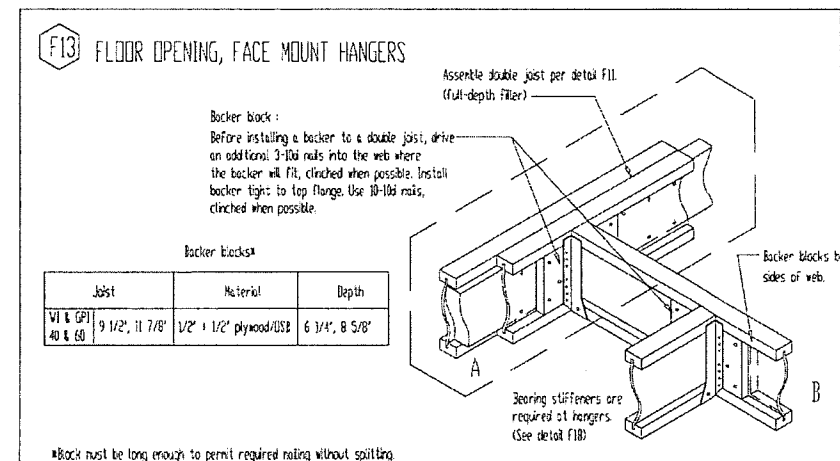
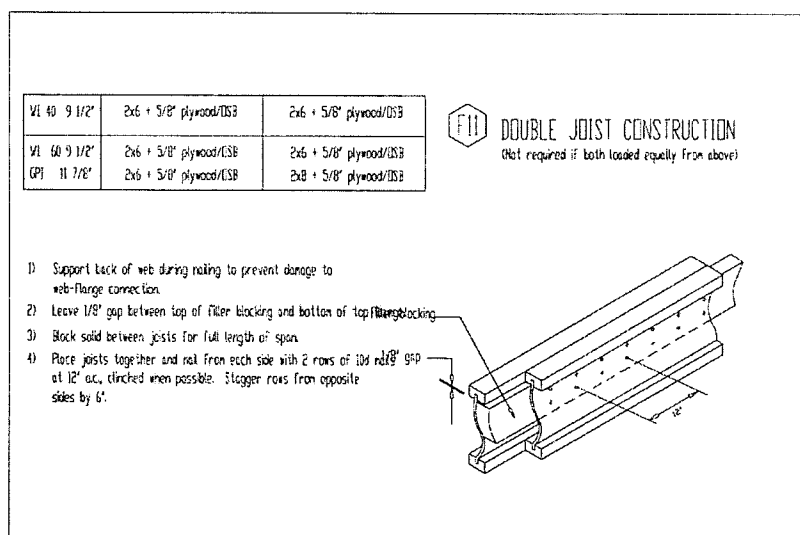
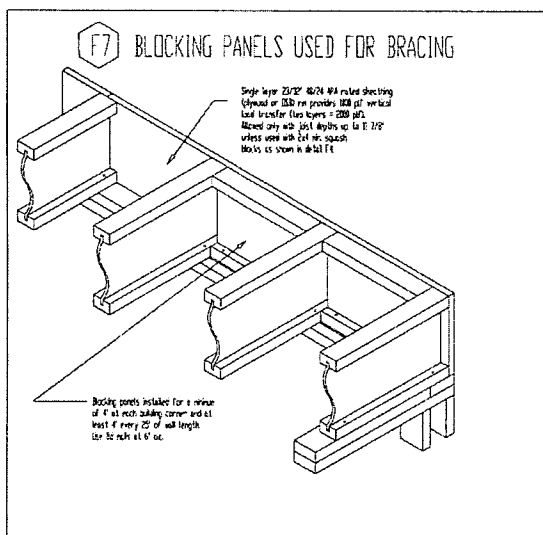
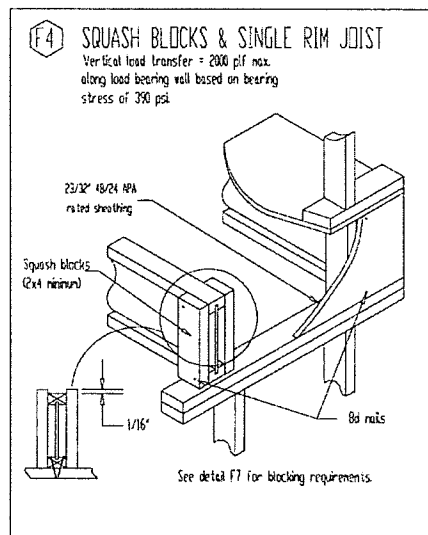
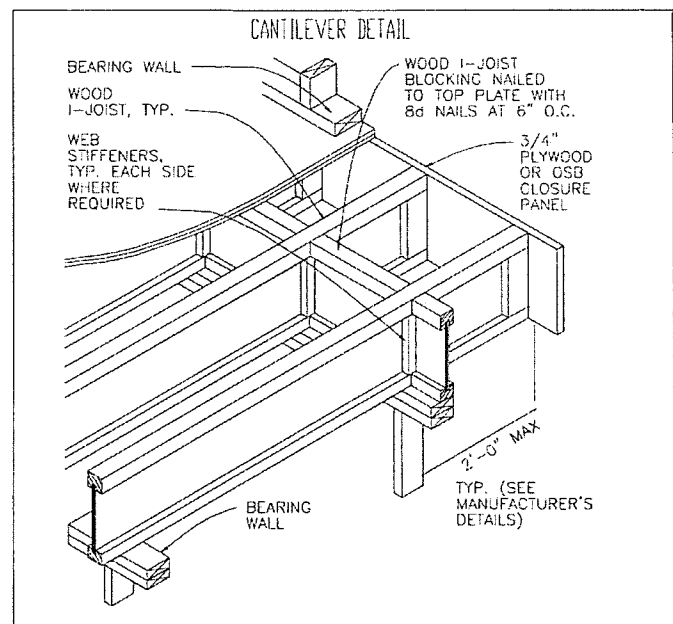
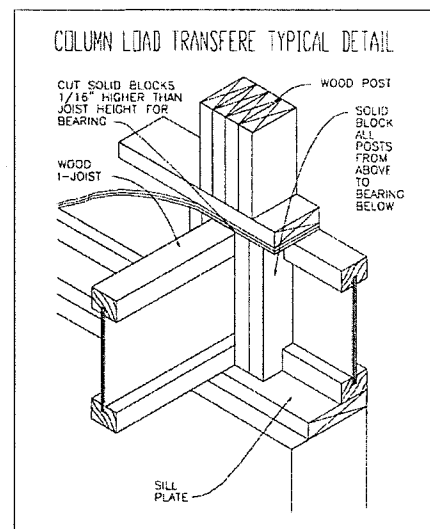
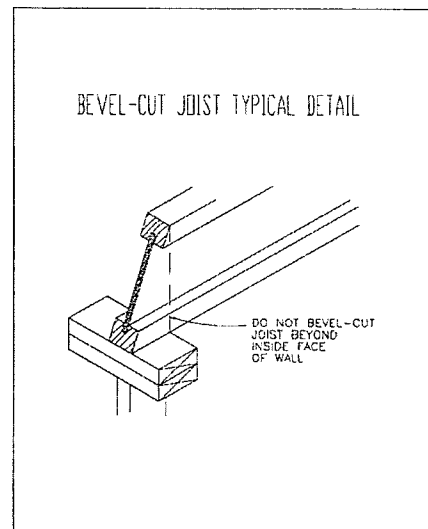
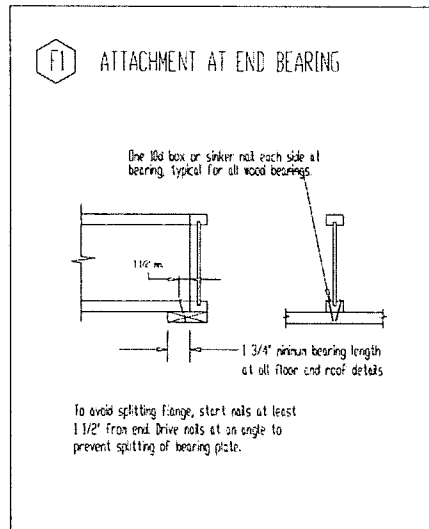
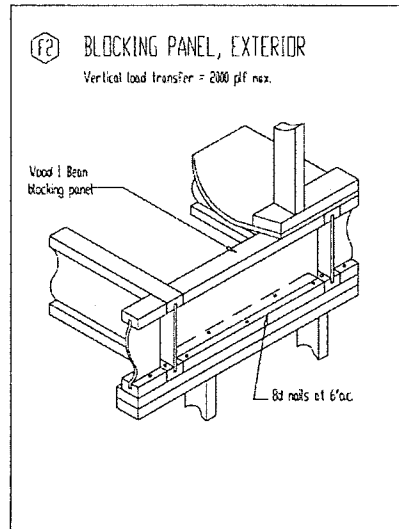
36 WALSH ROAD
NEWTON, MASSACHUSETTS

RAV & Assoc., Inc.
21 HIGHLAND AVENUE
NEEDHAM, MASSACHUSETTS 02494
TELEPHONE: (781) 449-8200 FAX: (781) 449-8205

SCALE: 1/4"=1'-0"

APPROVED: R.A.V. DESIGNED BY: I.M. DRAWING No. S-4 OF S-5

DATE: 01/18/19 DRAWN BY: I.M. CHECKED BY: R.A.V.



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TYPICAL DETAILS

36 WALSH ROAD
NEWTON, MASSACHUSETTS

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SCALE: 1/4" = 1'-0"

APPROVED: R.A.V.	DESIGNED BY: I.M.	DRAWING No.
DATE: 01/18/19	DRAWN BY: I.M.	S-5 OF S-5
	CHECKED BY: R.A.V.	

