

# CEDAR

NOTICE TO CONTRACTOR  
All construction must comply with current NC Building Codes and is subject to field inspection and verification.

**APPROVED**  
Limited building only review  
Permit holder responsible for full compliance with the code

07/16/2021




DIV-COMM-LOT-UNIT  
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COMM-LOT  
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STREET ADDRESS  
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CITY STATE ZIP  
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APT. NO.  
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NVR, Inc.  
5285 Westview Drive, Suite 100  
Frederick, MD 21703

	SLAB FOUNDATION												STANDARD DETAILS	
	STD. DWGS.													
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														SP-1
														SP-2
														SP-3
														ST-1
														WB-2
														WD-1
														WS-1
														WS-1b

FIRST FLOOR SQUARE FOOTAGE	
DESCRIPTION	TOTAL SQ. FT.
1ST FLOOR (BASE SF)	103 SF
	103 SF
SECOND FLOOR SQUARE FOOTAGE	
DESCRIPTION	TOTAL SQ. FT.
2ND FLOOR (BASE SF)	1120 SF
	1120 SF
GARAGE SQUARE FOOTAGE	
DESCRIPTION	TOTAL SQ. FT.
TWO CAR FRONT ENTRY GARAGE	347 SF
	347 SF
TOTAL FINISHED SQUARE FOOTAGE	
DESCRIPTION	TOTAL SQ. FT.
1ST FLOOR (BASE SF)	103 SF
2ND FLOOR (BASE SF)	1120 SF
	1403 SF

SET - VERSION  
**CDR00-01**

**CS-1**

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GENERAL

- 1. These plans and specifications are the sole property of NVR. Any unauthorized use of these plans without the written consent of NVR is prohibited.

CODE ANALYSIS

- 1. This note sheet only covers major code requirements. The plans are intended to conform to all current applicable codes including, but not limited to: NRCG 2018, NCMC 2018, NCFCC 2018, NCEC 2018, NEC 2017 w/ NC Amendments, NCEC 2018, NCFPC 2018.

ENERGY AND MECHANICAL

- 1. Insulation requirements per 2018 NRCG Chapter 11, Energy Efficiency, or Chapter 4 of the 2018 North Carolina Energy Conservation Code (NCECC), or Chapter 4 of the 2015 International Energy Conservation Code (IECC), Residential Energy Efficiency by the prescriptive method. See NVR "Standard Energy Package" for field procedures and details.

Table with columns: CLIMATE ZONE, PENETRATION U-FACTOR, GLAZED PENETRATION SHGC, CEILING R-VALUE, FRAME WALL R-VALUE 2x4 / 2x6, FLOOR R-VALUE, BASEMENT WALL R-VALUE UNFIN. / FIN., SLAB R-VALUE # DEPTH, CRAWL SPACE WALL R-VALUE.

- 2. All HVAC equipment is sized based on ACCA Manual J calculations. Ductwork is sized using ACCA Manual D. Minimum efficiencies of equipment are as listed below. Upgrades for improved energy performance may be installed.

DESIGN LOADS

Table of Loads for House Structure, Per Table 301.5

Table of Loads for House Structure: Floor Living Areas, Floor Sleeping Areas, Garage Floors, Roof Areas (Top Chord, Bottom Chord), Habitable Attics, Trusses, Walls, Stairs, Allowable deflection of structural members per IRC Table R301.7

Design Criteria

- Design Codes: 1. National Design specification for Wood Construction by National Forest Products Association. 2. Specification for the Design Fabrication and Erection of Structural Steel for Buildings by American Institute of Steel Construction.

Materials: Headers\* Southern Pine (KD-14), No. 1 Grade. Studs Spruce-Pine-Fir, Stud Grade.

FOUNDATIONS

- 1. All plain and reinforced concrete shall comply with requirements in ACI 318. 2. Concrete footings shall be poured a maximum 5' slump, 3 bag mix, and 2500 psi minimum strength per Table R402.2.

Interior slabs on grade (excluding garage slabs) shall be minimum 3-1/2" concrete (may be represented on plans as nominal 4") over 4" sub-base, with vapor barrier (6-mil polyethylene) as required per Section R506 and a minimum 2500 PSI per Table R402.2.

- 4. The top course of block of foundation walls shall be semi-solid block or open cores of hollow block shall be filled with mortar. 5. Block piers to be solid block or mortar-filled hollow block.

Per R103.8.4.1 - Corrugated sheet metal veneer ties shall be a minimum of No. 22 U.S. gauge by 1/8" inch. Each tie shall be spaced not more than 32" o.c. horizontally and 24" o.c. vertically and shall support not more than 2.67 square feet of wall area.

Additional metal ties shall be provided around all wall openings greater than 16 inches (406 mm) in either dimension. Metal ties around the perimeter of openings shall be spaced not more than 3 feet (914 mm) on center and placed within 12 inches (305 mm) of the wall opening.

- 16. Reserved for future use. 17. Foundation wall strip footing thickness to be 8" (or 6" with a single story) unless otherwise noted as specified by engineering.

FOUNDATION WALL DESIGN (c)

NRCG PRESCRIPTIVE CODE OR ENGINEERED DESIGN PER ACI 318.2

Table for Foundation Wall Design: WALL HEIGHT, WALL THICKNESS, LATERAL SOIL UNBALANCED LOAD (k), VERTICAL REINFORCING (b), HORIZONTAL REINFORCING (b).

NOTE: BACKFILLING OF THE FOUNDATION SHALL NOT TAKE PLACE BEFORE THE BASEMENT SLAB IS IN PLACE AND THE FLOOR FRAMING IS ERECTED OR UNLESS WALLS ARE ADEQUATELY BRACED.

- a. SOIL CLASSES GM, GC, SM, SM-SG AND ML - 45 PSF. SOIL CLASSES SC, M4, ML-CL AND CL - 60 PSF. b. SPACINGS SHOWN IS BASED UPON Fy = 60,000 PSI. STEEL FOR Fy = 40,000 PSI STEEL, REDUCE SPACINGS BY 0.67.

PLANS

- 1. Habitable attics and sleeping rooms shall have a window or door as a second means of egress that shall be minimum 5.7 sq. ft. of clearable area (5.0 sq. ft. if at grade level) with maximum sill height 44" above finish floor (min. hgt. 24", min. width 20") per R310.1.

Screen Fastening Schedule Table: Framing Spacing, Ceiling, Load-brg. walls, Non-load-brg. walls. WITH ADHESIVE / WITHOUT ADHESIVE.

- For 1/2" wallboard, nails shall be 1-1/4" long, 1/4" head and .048 diameter shanks with annular ring or acceptable equivalent and comply with ASTM C514. For 5/8" wallboard, nails shall be 1-3/8" long, 1/4" head and .048 diameter shanks.

- 21. Water closet, lavatory or bidet shall not be set closer than 15 inches from its center to any side wall, partition or vanity or closet than 30 inches center-to-center between adjacent fixtures. 22. Heating and cooling equipment installation shall be in accordance with IRC Chapter 14 and the International Mechanical Code.

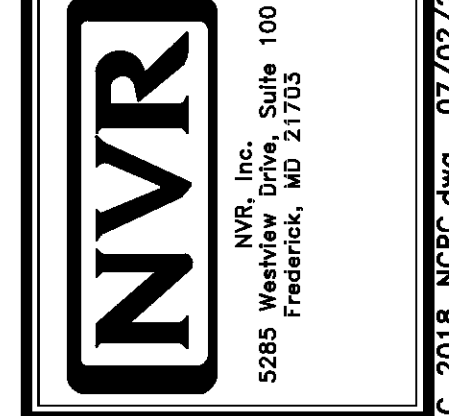
ELECTRICAL

- 1. Ground-fault and arc-fault circuit interrupter protection is provided per NFPA 70 (National Electric Code). 2. Electric panel box installation to be in accordance with NFPA 70, Article 408 Section III. Location may vary by design.



Table with columns: REV. NO., DATE, and REMARKS. Contains revision details for code updates.

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Project information: MODEL: NRCG 2018 SPEC SHEET, SHEET NO: SS-1, DRAWING TITLE: SINGLE FAMILY ATTACHED SINGLE FAMILY DETACHED, OPTION: NC State Building Code - Residential Code 2018.

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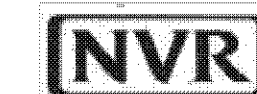
### ROOF VENTILATION CALCULATIONS

HOUSE NAME	CEDAR
HOUSE VERSION	CDR00-01
PRODUCT LINE	RYANHOMES
VENTILATION VALUES	SCAFF: 3.0 sq ft of vent per 10' of ridge ROOF: 18 sq ft of vent per 10' of ridge ROOF / GABLE VENT: 45 sq ft of vent per unit

USER GUIDE	YES	(avg)	(avg)	VENT OK	No action req'd.
	NO	YES		OK VENT OK	No action req'd.
	NO	YES		LOW FAIL	Increase ridge
	NO	YES		HIGH FAIL	Decrease ridge
	NO	NO	(avg)	FAIL	Increase total vent

ELEVATION "A or F or K"														
Location / Options	Area (A) (sq ft)	Required (A) (sq ft)	Required (A) (sq ft)	Suffic (A) (sq ft)	Suffic (A) (sq ft)	Ridge (A) (sq ft)	Upper Riser / Gable Vent (sq ft)	Lower Riser (sq ft)	TOTAL (sq ft)	OK A(150)	OK A(900)	A(300) (sq ft)	A(300) (sq ft)	Notes
Main House Roof	11100	10720	10720	45	10675	13	336	0	11100	105	105	50	50	
Garage Roof	11800	7820	12500	27.5	12225	0	0	0	11800	105	105	N/A	N/A	

ELEVATION "B or L"														
Location / Options	Area (A) (sq ft)	Required (A) (sq ft)	Required (A) (sq ft)	Suffic (A) (sq ft)	Suffic (A) (sq ft)	Ridge (A) (sq ft)	Upper Riser / Gable Vent (sq ft)	Lower Riser (sq ft)	TOTAL (sq ft)	OK A(150)	OK A(900)	A(300) (sq ft)	A(300) (sq ft)	Notes
Main House Roof	11100	10720	10720	45	10675	13	336	0	11100	105	105	50	50	
Garage Roof	11800	7820	12500	27.5	12225	0	0	0	11800	105	105	N/A	N/A	



### HOUSE VOLUME CALCULATIONS

HOUSE NAME	CEDAR
HOUSE VERSION	CDR00-01
PRODUCT LINE	RYANHOMES

Note: The volume of the structure has been computed in accordance with "Title 5. of the Community Affairs, Chapter 23. Uniform Construction Code, Subchapter 2. Administration and enforcement: Process." (5:23-2.28. Uniform computation)

ELEVATION "X"			
Location / Area of house	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Main section of the house			0
Garage bump out from main house			0
Porch on front of house			0
Total House Volume			0

ELEVATION "X"			
Location / Area of house	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Main section of the house			0
Garage bump out from main house			0
Porch on front of house			0
Total House Volume			0

ELEVATION "X"			
Location / Area of house	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Main section of the house			0
Garage bump out from main house			0
Porch on front of house			0
Total House Volume			0

ELEVATION "X"			
Location / Area of house	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
Main section of the house			0
Garage bump out from main house			0
Porch on front of house			0
Total House Volume			0

Additional areas of volume to be added to total house volume as needed			
Location / Area of house / option	Floor Area (sq. ft.)	Mean height (ft.)	Total volume (cu. Ft.)
			0



DIV - COMM - LOT - UNIT

COMM - LOT

STREET ADDRESS

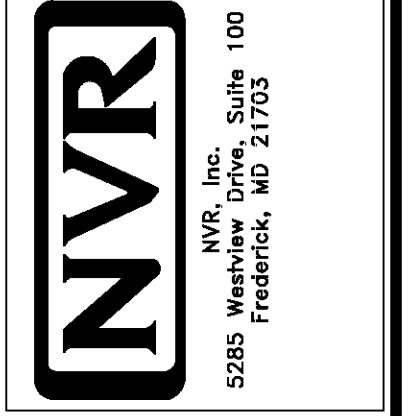
CITY

STATE

APT. NO.

ZIP

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SET NO. CDR00-01

VERSION 01

DRAWN BY

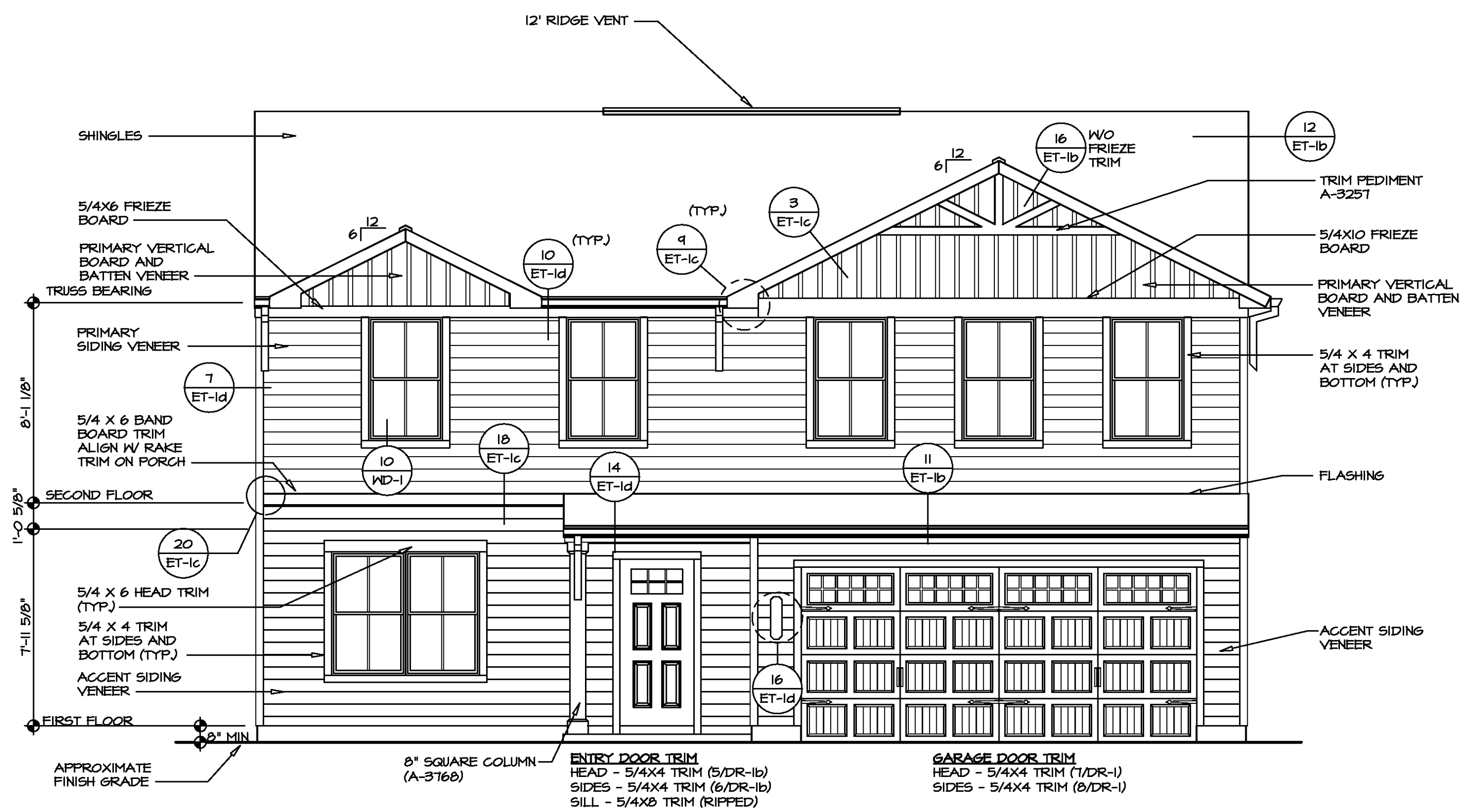
DATE

OPTION

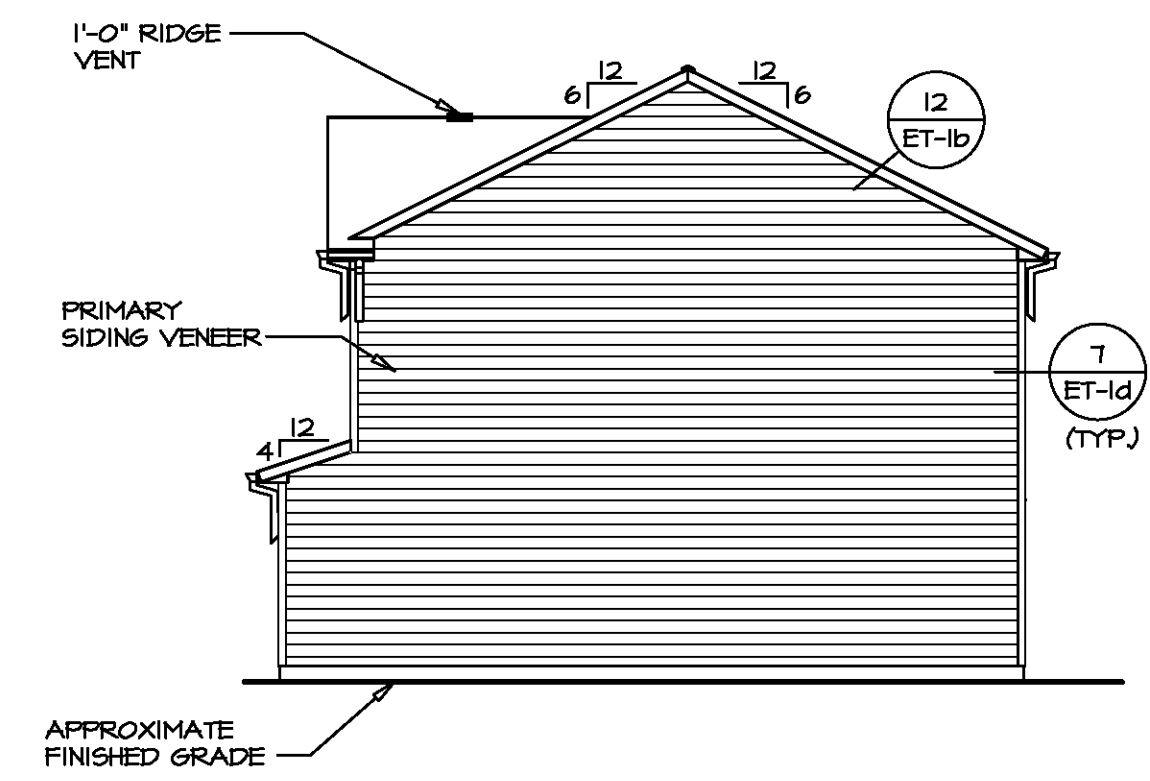
MODEL: CEDAR

DRAWING TITLE: CA-1

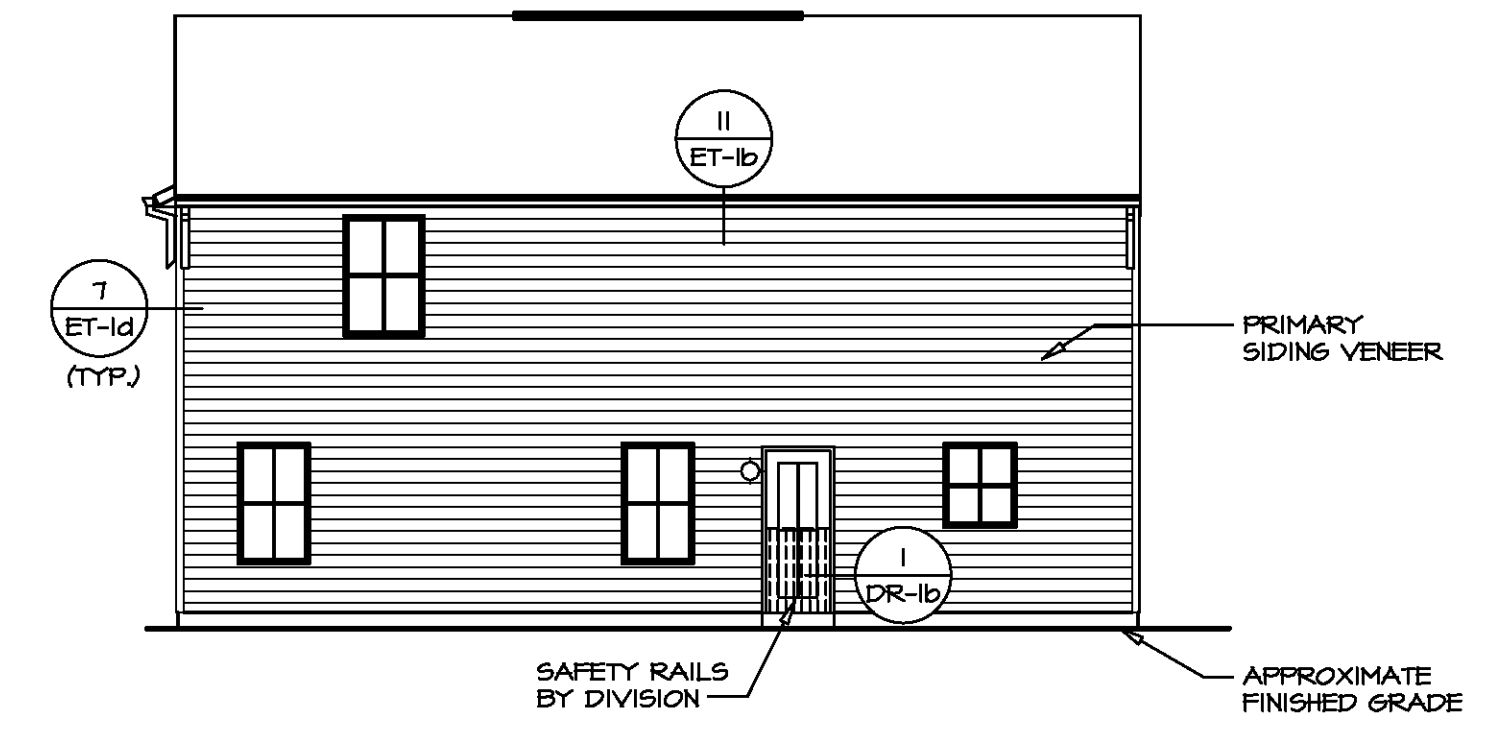
OPTION DESCRIPTION: ---



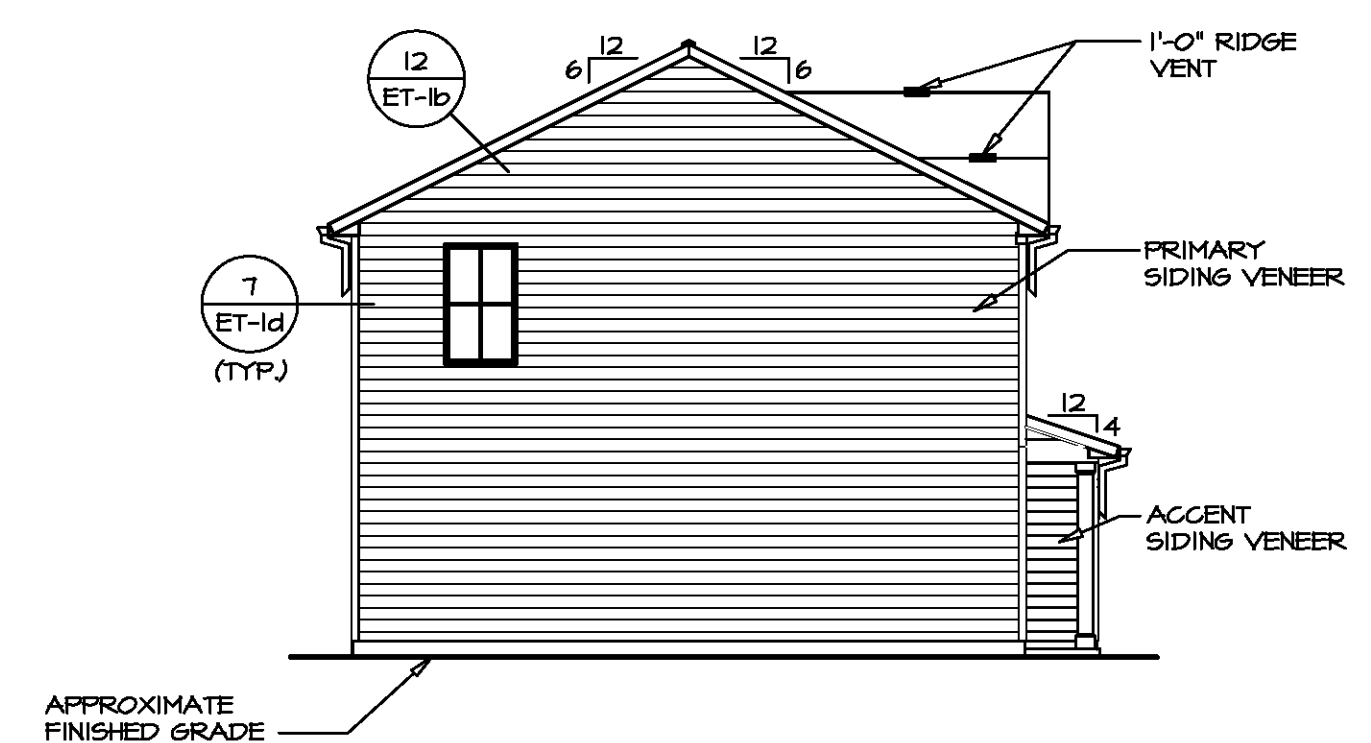
**1 FRONT ELEVATION "L"**  
 SCALE: 1/4" = 1'-0"



**2 RIGHT SIDE ELEVATION**  
 SCALE: 1/8" = 1'-0"



**3 REAR ELEVATION**  
 SCALE: 1/8" = 1'-0"

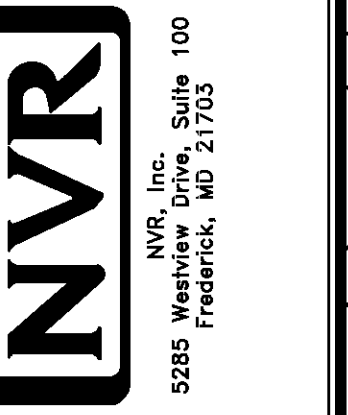


**4 LEFT SIDE ELEVATION**  
 SCALE: 1/8" = 1'-0"



DIV.-COMM.-LOT-UNIT	
COMM.-LOT	APT. NO.
STREET ADDRESS	
CITY	STATE
ZIP	

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MODEL <b>CEDAR</b>	SET NO. CDROO
DRAWING TITLE <b>ELEVATIONS</b>	VERSION 01
OPTION DESCRIPTION <b>SLAB FOUNDATION</b>	DRAWN BY
SHEET NO. <b>A-1</b>	DATE:
4	OPTION FSA

PAD FOOTING SCHEDULE					
IDENTIFIER	LENGTH	WIDTH	HEIGHT	ENG. NUM.	REMARKS
FOO1	11'-1 1/2"	1'-4"	0'-8"	S0001	
FOO2	6'-0"	1'-4"	0'-8"	S0001	
FOO3	2'-0"	2'-0"	1'-0"	1016	

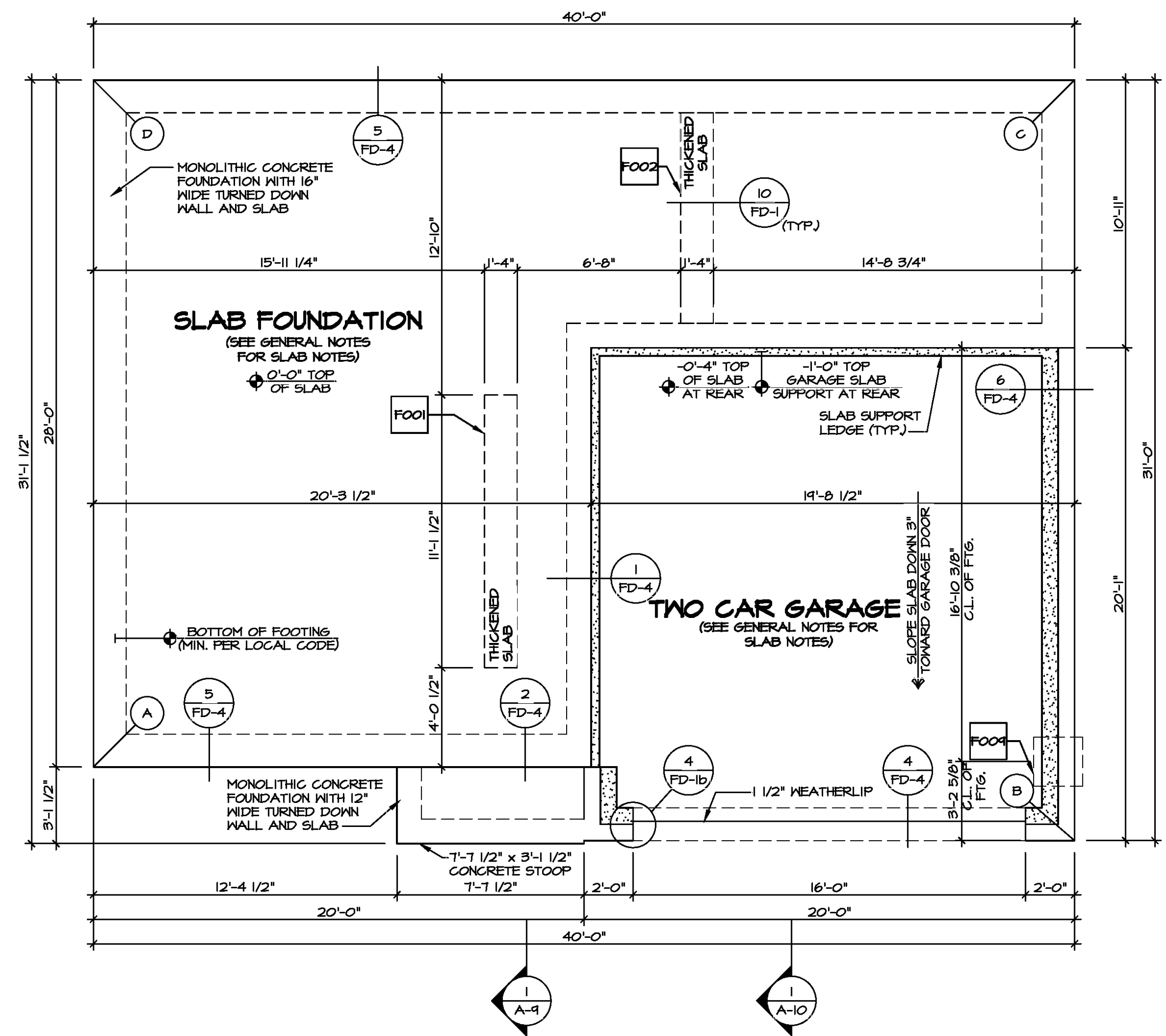
FOUNDATION DIAGONALS			
A		B	
A	0"	A	40'-1 11/32"
B	40'-1 11/32"	B	0"
C	48'-4 24/32"	C	31'-0"
D	28'-0"	D	50'-1 9/32"

- FOUNDATION NOTES - SLAB**
- FOUNDATION UNDER HABITABLE SPACE:  
1.1. CONCRETE SLAB ON 6 MIL VAPOR BARRIER OVER SUB-BASE (SEE SPEC SHEET FOR SLAB NOTES)
  - FOUNDATION UNDER GARAGE:  
2.1. UNEXCAVATED WITH CONCRETE SLAB ON VAPOR BARRIER OVER SUB-BASE (SEE SPEC SHEET FOR SLAB NOTES) OR  
2.2. STRUCTURAL CONCRETE SLAB ON VAPOR BARRIER OVER SUB-BASE (SEE SPEC SHEET FOR SLAB NOTES)
  - SEE FOUNDATION HOLD DOWN SHEET FOR CONNECTION INFORMATION.
  - SLAB LEDGE LOCATIONS VARY W/ GRADE BEAM(S) ORIENTATION. SEE 65-1 FOR DETAILS.
  - THE DIRECTION OF THE ARROW IS THE DIRECTION OF REBAR, AS REQUIRED.
  - ALL FOOTINGS ARE PLAIN, UNREINFORCED CONCRETE UNLESS NOTES OTHERWISE.

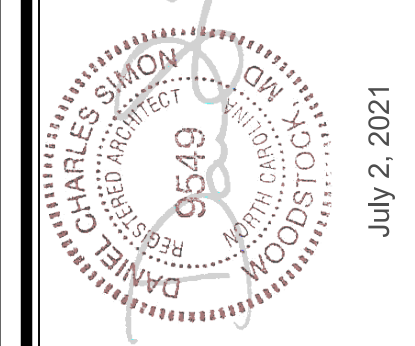
**LEGEND**

- BEARING WALL
- NON BEARING WALL
- INDICATES BEARING FROM POINT-LOAD ABOVE
- JACKS
- BEAM/HEADERS
- PAD FOOTING
- STEEL COLUMN
- TRUSS TIE DOWN
- PORTAL FRAME
- JOIST/TRUSS
- LVL
- ENGINEERING PAGE NUMBER

SEE FC DETAILS FOR FRAMING CONNECTORS

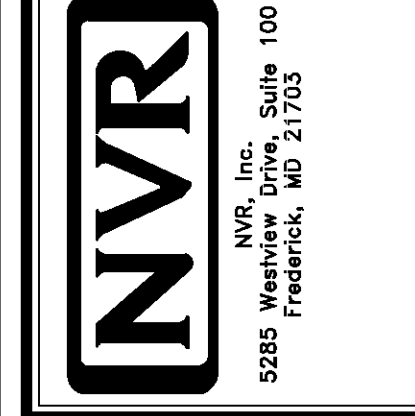


**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"

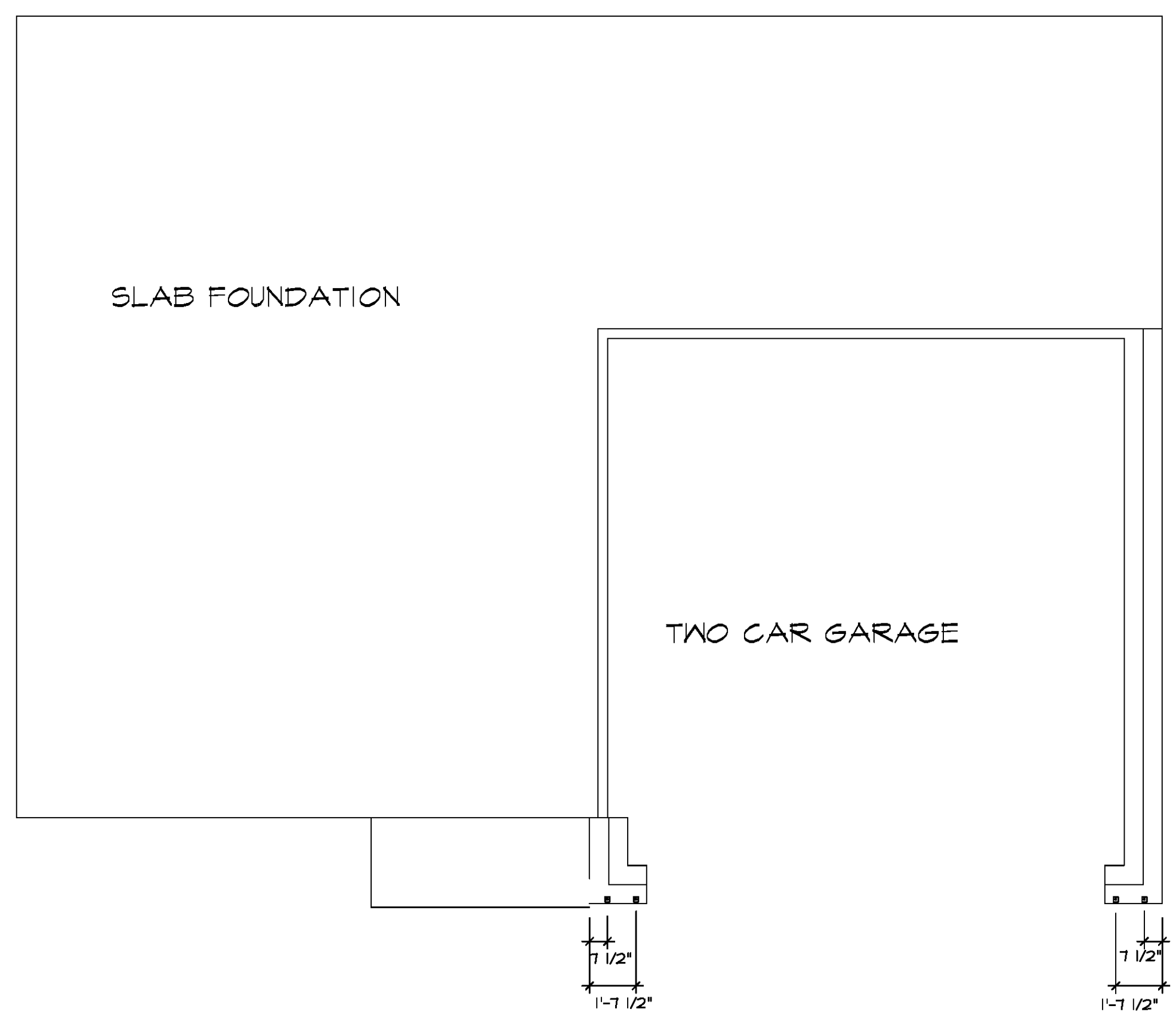


DIV-COMM-LOT-UNIT  
COM-LOT  
STREET ADDRESS  
CITY  
STATE  
APT. NO.  
ZIP

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MODEL	SET NO.	CDROO
CEDAR	VERSION	01
FOUNDATION PLAN	DRAWN BY	
SLAB FOUNDATION	DATE:	
	OPTION	FSA
SHEET NO.		
A-3		
5		



**FOUNDATION HOLD DOWN DETAILS**  
 SCALE: 1/4" = 1'-0"

HOLD DOWN NOTES	
REFER TO DETAIL (1/2FD-1) FOR HOLD DOWN OFFSET DIMENSIONS. REFER TO DETAIL (1/2FD-1) FOR HOLD DOWNS ON CMU BLOCK.	
 STRAP	1. ALL PANELS GREATER THAN 24" SHALL HAVE AN ANCHOR WITHIN 12" OF THE PANEL BREAKS / ENDS. (SEE DETAIL SHEET FF-1 FOR MORE INFORMATION ON ANCHOR DETAILS)  1. STRAP: a. ON FOUNDATION USE (5THD14) b. ON FLOOR SYSTEM USE (5THD14R.U) 2. ALL OTHER HOLD DOWN SEE DETAIL (1/2FD-2) FOR MORE INFORMATION. 3. STRAP LOCATION ON PLANS SHOWN BY DASHED DIMENSION TO CENTER OF STUDS
OR	
 BOLT	1. 5/8"Ø THREADED ROD 2. ALL OTHER HOLD DOWN SEE DETAIL (1/2FD-2) FOR MORE INFORMATION. 3. BOLT LOCATION ON PLANS SHOWN BY SOLID DIMENSION TO CENTER OF BOLT

DIV-COMM-LOT-UNIT	
COMM-LOT	APT. NO.
STREET ADDRESS	
CITY	STATE
ZIP	

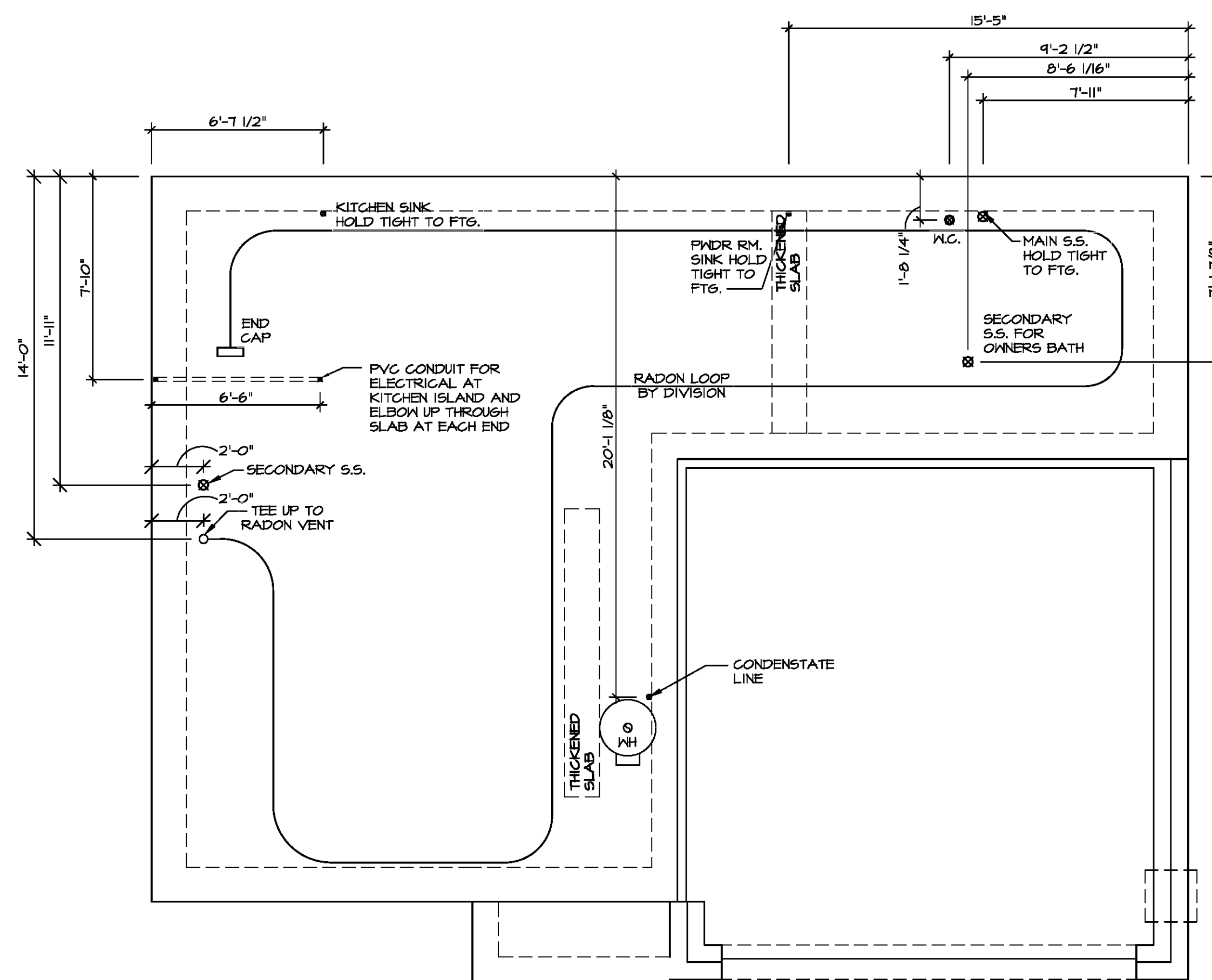
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SET NO. CDR/OC	VERSION 01	DRAWN BY	DATE
			OPTION

MODEL CEDAR	DRAWING TITLE
A-4	FOUNDATION HOLD DOWN DETAILS
SHEET NO.	OPTION DESCRIPTION
6	

## INSTALLATION OF RADON STACK AND LOOP TO BE DETERMINED BY DIVISION



1
A-5
**PLUMBING PLAN**  
 SCALE: 1/4" = 1'-0"

**NOTE**  
 RADON REMEDIATION  
 RADON LOOP:  
 - (4') PERFORATED HDPE "LOOP"  
 - MUST BE PLACED IN STONE BED SLIGHTLY HIGHER THAN ANY INTERIOR DRAINTILE  
 - LOOP TO BE SEPARATE FROM ANY DRAINTILE ELEMENTS  
 - TO BE CORRUGATED HDPE PIPE  
 - SCREENS TO BE INSTALLED THROUGH LOOP AT TEE UP INTO STACK  
**STACK REQUIREMENTS:**  
 - 3" PVC STACK (4" IF BASEMENT IS GREATER THAN 2200 SQFT.)  
 - NO PART OF STACK IS TO BE HORIZONTAL (45° ELBOWS PERMITTED AS REQUIRED)  
 - PIPE TO BE PHYSICALLY LABELED IN THE FIELD AS "RADON VENT" OR OTHER JURISDICTIONALLY REQUIRED LANGUAGE (ON EVERY LEVEL OF HOUSE)  
 - ROOF TERMINATION TO BE IN TOP 1/3 OF ROOF  
 - SCREEN OR VENT CAP INSTALLED TO KEEP PESTS OUT OF RADON VENT AT ROOF TERMINATION.



DIV-COMM-LOT-UNIT -----

COMM-LOT -----

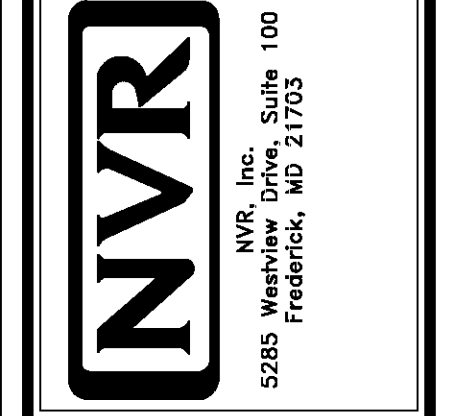
STREET ADDRESS -----

CITY ----- STATE -----

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MODEL <b>CEDAR</b>	SET NO. <b>CDPROC</b>	VERSION <b>01</b>	DRAWN BY	DATE:	OPTION
DRAWING TITLE <b>PLUMBING PLAN</b>					
OPTION DESCRIPTION					
<b>A-5</b>					<b>7</b>

FIRST FLOOR JACK SCHEDULE			
IDENTIFIER	DESCRIPTION	ENG. NUM.	REMARKS
J101	JACK - (3) 2X4 SFF STUD GRADE	1014	
J102	JACK - (2) 2X4 SFF STUD GRADE	1014	
J103	JACK - (2) 2X4 SFF STUD GRADE	1014	
J104	JACK - (2) 2X4 SFF STUD GRADE	1014	
J105	JACK - (2) 2X4 SFF STUD GRADE	1012	
J106	JACK - (4) 2X4 SFF	1025	
J107	JACK - (4) 2X4 SFF	1025	
J108	JACK - (2) 2X4 SFF STUD GRADE	1008	
J109	JACK - (2) 2X4 SFF STUD GRADE	1008	
J110	JACK - (2) 2X4 SFF STUD GRADE	1010	
J111	JACK - (2) 2X4 SFF STUD GRADE	1010	
J112	JACK - (4) 2X4 SFF STUD GRADE	1006	
J113	JACK - (4) 2X4 SFF STUD GRADE	1006	
J114	JACK - (4) 2X4 SFF STUD GRADE	1006	
J115	JACK - (4) 2X4 SFF STUD GRADE	1006	

FIELD INSTALLED FIRST FLOOR BEAM/HEADER SCHEDULE				
IDENTIFIER	DESCRIPTION	LENGTH	ENG. NUM.	REMARKS
B101	INT HEADER - 2X8 - 2 FLY	4'-1"	1014	

**FLOOR PLAN NOTES**

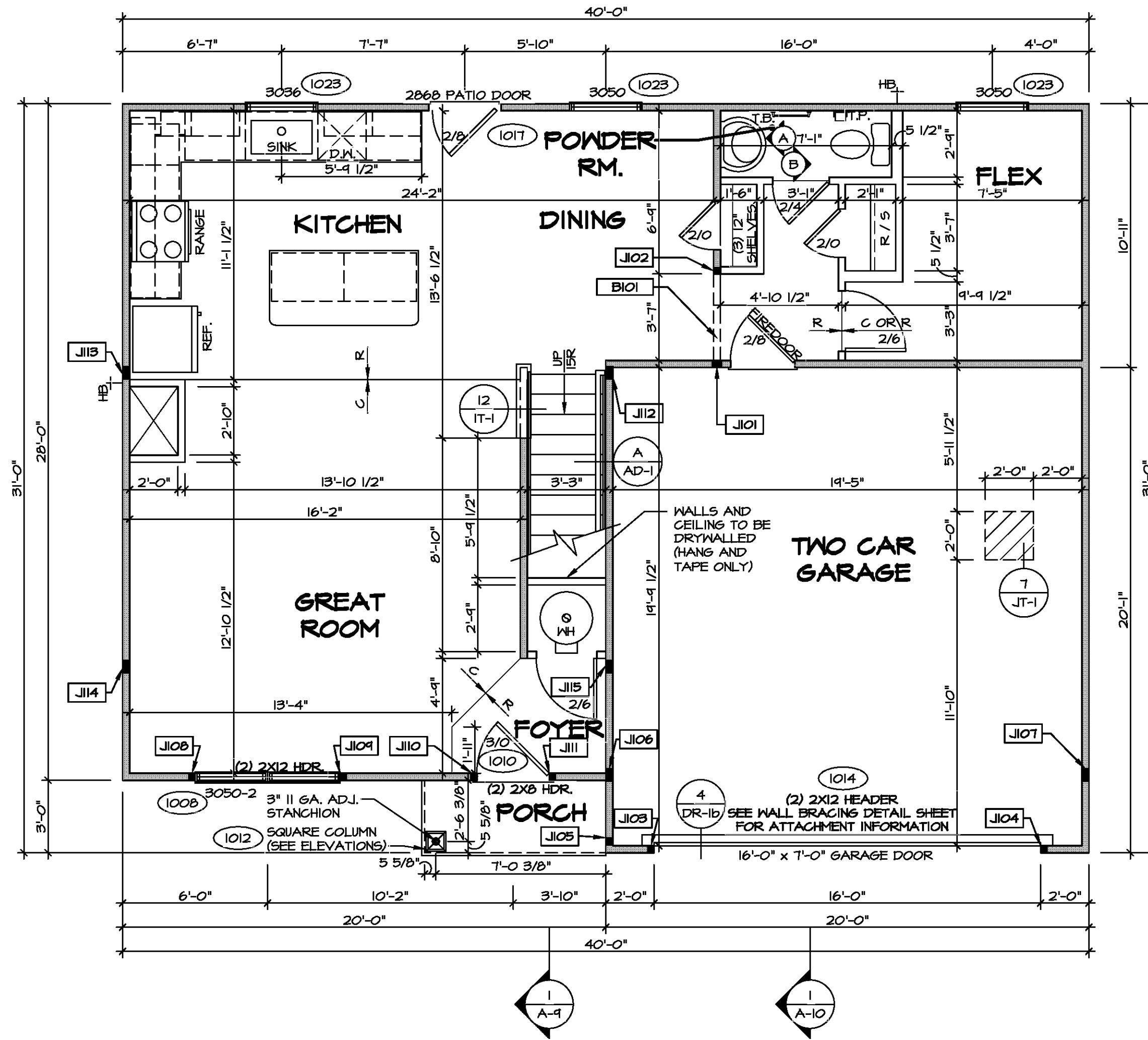
- ALL HEADERS ARE (2) 2x6 w/ 2x4 WALLS OR (3) 2x6 w/ 2x6 WALLS, UNLESS OTHERWISE NOTED.
- ALL HEADERS TO HAVE (1) 2x4 OR 2x6 JACK AND KING STUD EACH END, UNLESS OTHERWISE NOTED. MULTI-OPENING HEADERS TO HAVE (2) JACKS AT INTERMEDIATE BEARINGS, UNLESS OTHERWISE NOTED. NO ADDITIONAL FLOOR SYSTEM BLOCKING OR CONTINUOUS LOAD PATH JACKS ARE REQUIRED UNLESS OTHERWISE NOTED.
- ALL EXTERIOR WALLS TO BE 4" w/ OSB OR 3 1/2" w/ LAMINATED FIBROUS STRUCTURAL SHEATHING, ALL INTERIOR WALLS TO BE 3 1/2" UNLESS OTHERWISE NOTED. HATCHED AREAS INDICATE DROPPED CEILINGS. ALL DROPPED CEILINGS ARE 12' UNLESS OTHERWISE NOTED.
- SEE "BRACED WALL PANEL DETAIL SHEET" FOR SPECIAL WALL FRAMING LOCATIONS AND HEADER SIZES, IF APPLICABLE.
- SEE STANDARD DETAIL CATEGORY "11" SHEET(S) FOR INTERIOR TRIM DETAILS.
- SEE ARCHITECTURAL DETAIL SHEET "AD" FOR HOUSE SPECIFIC INTERIOR TRIM OPTION TABLE.
- ALL WINDOWS HAVE 7'-0 1/2" HEADER HEIGHT UNLESS OTHERWISE NOTED.
- ALL HEADERS IN NON-BEARING WALLS SHALL BE A SINGLE FLAT 2X4 OR 2X6 ATTACHED TO CRIPPLES ABOVE, UNLESS OTHERWISE NOTED.
- TANKED WATER HEATER SHOWN AS BASE CONDITION, OPTIONAL TANKLESS WATER HEATER IS AVAILABLE IN LIEU OF TANKED WATER HEATER.

**GYPSUM NOTES**

- AT GARAGE:**  
GYPSUM BOARD AT COMMON WALLS, CEILINGS, BEAM WRAPS AND SUPPORTS PER STANDARD DETAIL FA-1(b) FIRE ASSEMBLIES OR AS REQUIRED BY LOCAL CODE.
- AT STAIRS:**  
1/2" GYPSUM BOARD AT UNDERSIDE OF STAIRS AND WALLS IN CLOSET

**LEGEND**

- BEARING WALL
  - NON BEARING WALL
  - INDICATES BEARING FROM POINT-LOAD ABOVE
  - JACKS
  - BEAM/HEADER
  - PAD FOOTING
  - STEEL COLUMN
  - TRUSS TIE DOWN
  - PORTAL FRAME
  - JOIST/TRUSS
  - LVL
  - ENGINEERING PAGE NUMBER
- SEE FC DETAILS FOR FRAMING CONNECTORS

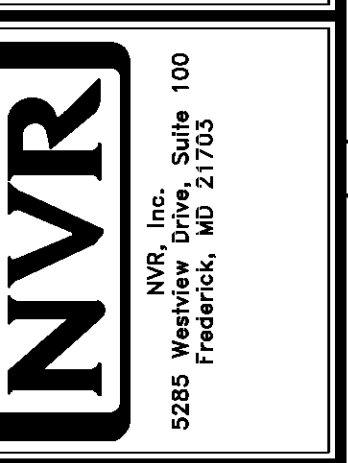


**FIRST FLOOR PLAN**  
SCALE: 1/4" = 1'-0"



DIV-COMM-LOT-UNIT  
 COMM-LOT  
 STREET ADDRESS  
 CITY STATE ZIP

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MODEL	SET NO. CDROO
CEDAR	VERSION 01
DRAWING TITLE	DRAWN BY
FIRST FLOOR PLAN	DATE:
OPTION DESCRIPTION	OPTION
A-7	9



**FLOOR PLAN NOTES**

- ALL HEADERS ARE (2) 2x6 w/ 2x4 WALLS OR (3) 2x6 w/ 2x6 WALLS, UNLESS OTHERWISE NOTED.
- ALL HEADERS TO HAVE (1) 2x4 OR 2x6 JACK AND KING STUD EACH END, UNLESS OTHERWISE NOTED. MULTI-OPENING HEADERS TO HAVE (2) JACKS AT INTERMEDIATE BEARING, UNLESS OTHERWISE NOTED. NO ADDITIONAL FLOOR SYSTEM BLOCKING OR CONTINUOUS LOAD PATH JACKS ARE REQUIRED UNLESS OTHERWISE NOTED.
- ALL EXTERIOR WALLS TO BE 4" w/ OSB OR 3 1/2" w/ LAMINATED FIBROUS STRUCTURAL SHEATHING, ALL INTERIOR WALLS TO BE 3 1/2", UNLESS OTHERWISE NOTED.
- HATCHED AREAS INDICATE DROPPED CEILINGS. ALL DROPPED CEILINGS ARE 12" UNLESS OTHERWISE NOTED.
- SEE "BRACED WALL PANEL DETAIL SHEET" FOR SPECIAL WALL FRAMING LOCATIONS AND HEADER SIZES, IF APPLICABLE.
- SEE STANDARD DETAIL CATEGORY "IT" SHEET(S) FOR INTERIOR TRIM DETAILS.
- SEE ARCHITECTURAL DETAIL SHEET "AD" FOR HOUSE SPECIFIC INTERIOR TRIM OPTION TABLE.
- ALL WINDOWS HAVE 7'-0 1/2" HEADER HEIGHT UNLESS OTHERWISE NOTED.
- ALL HEADERS IN NON-BEARING WALLS SHALL BE A SINGLE FLAT 2x4 OR 2x6 ATTACHED TO CRIPPLES ABOVE, UNLESS OTHERWISE NOTED.
- TANKED WATER HEATER SHOWN AS BASE CONDITION, OPTIONAL TANKLESS WATER HEATER IS AVAILABLE IN LIEU OF TANKED WATER HEATER.

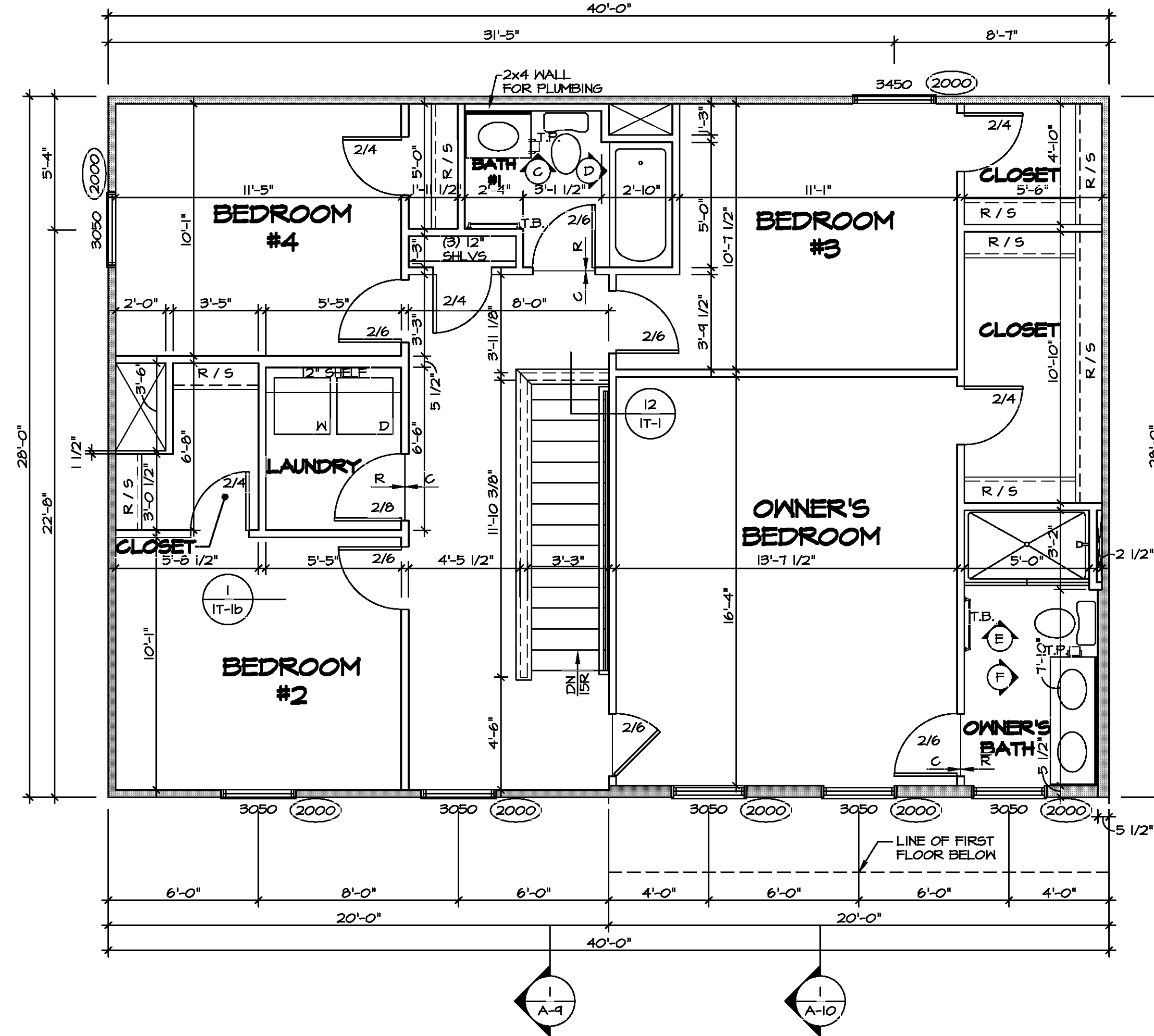
**GYPSUM NOTES**

AT GARAGE:  
GYPSUM BOARD AT COMMON WALLS, CEILINGS, BEAM WRAPS AND SUPPORTS PER STANDARD DETAIL FA-1(b) FIRE ASSEMBLIES OR AS REQUIRED BY LOCAL CODE.

AT STAIRS:  
1/2" GYPSUM BOARD AT UNDERSIDE OF STAIRS AND WALLS IN CLOSET

**LEGEND**

- BEARING WALL
  - NON BEARING WALL
  - INDICATES BEARING FROM POINT-LOAD ABOVE
  - JACKS
  - BEAM/HEADER
  - PAD FOOTING
  - STEEL COLUMN
  - TRUSS TIE DOWN
  - PORTAL FRAME
  - JOIST/TRUSS
  - LVL
  - ENGINEERING PAGE NUMBER
- SEE FC DETAILS FOR FRAMING CONNECTORS

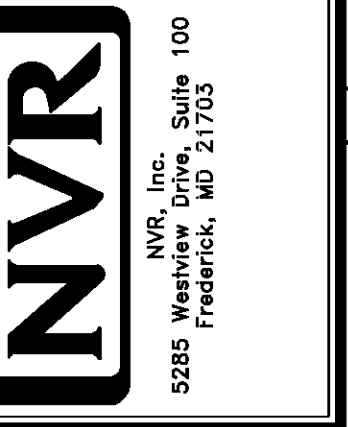


**SECOND FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

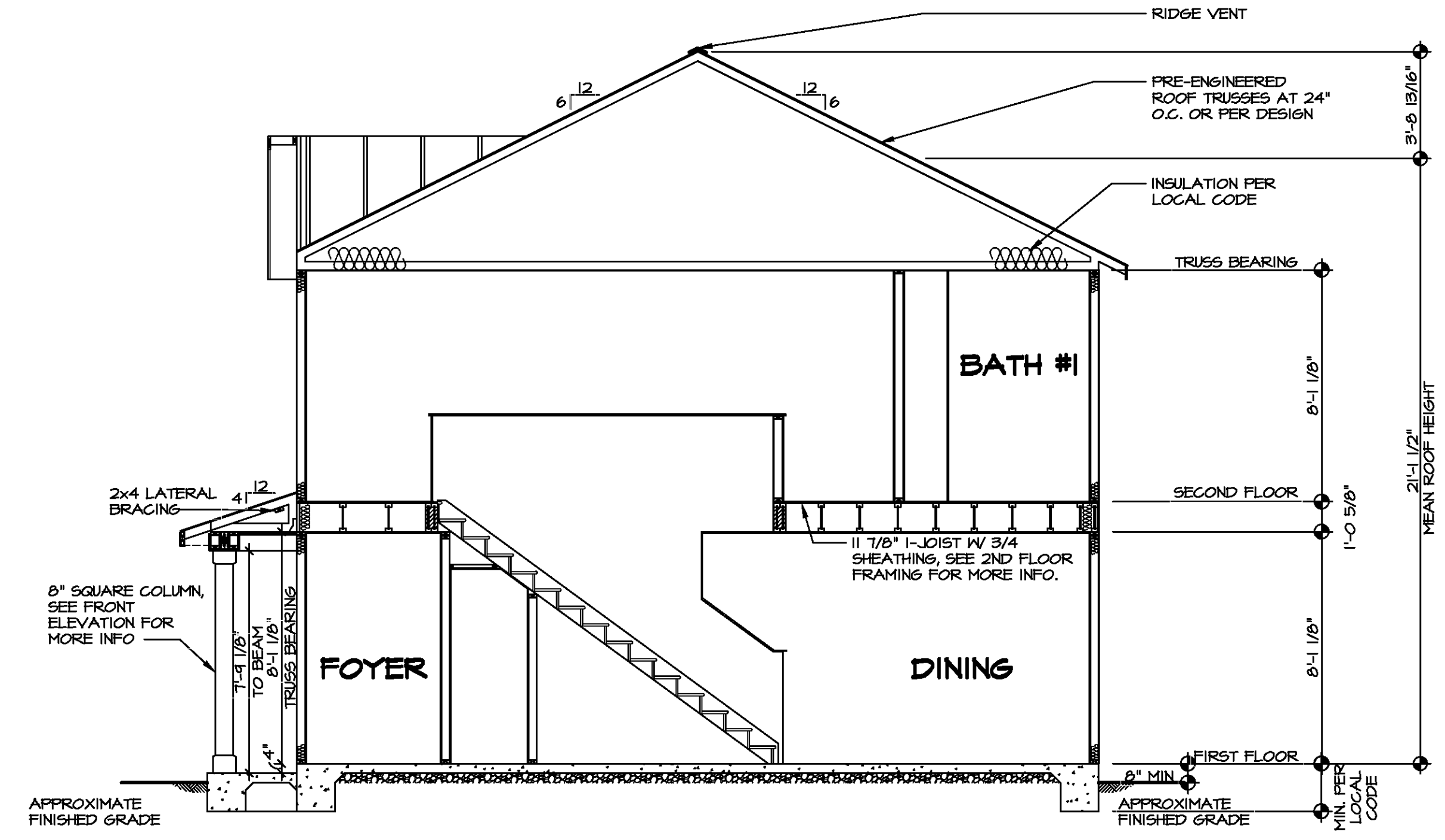


DIV-COMM-LOT-UNIT  
COM-LOT  
STREET ADDRESS  
CITY  
STATE  
APT. NO.  
ZIP

I hereby certify that I am a duly Licensed Professional Engineer in the State of Maryland, License No. 9549, and that I am the author of the design and calculations shown on this drawing. I am not providing any design or calculations for any other project or for any other purpose. I am not providing any design or calculations for any other project or for any other purpose. I am not providing any design or calculations for any other project or for any other purpose.



MODEL	SET NO. CDROO
CEDAR	VERSION 01
DRAWING TITLE	DRAWN BY
SECOND FLOOR PLAN	DATE:
OPTION DESCRIPTION	OPTION
A-8	10



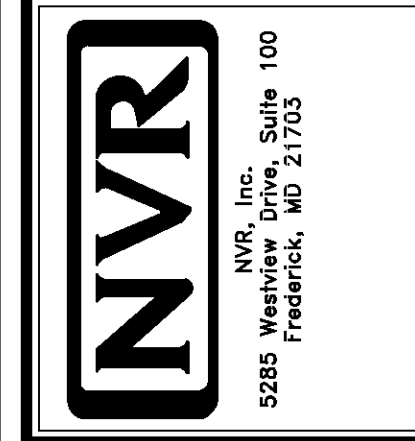
**BUILDING SECTION - FOYER**  
SCALE: 1/4" = 1'-0"



DIV-COMM-LOT-UNIT  
COMM-LOT

STREET ADDRESS  
CITY  
STATE  
APT. NO.  
ZIP

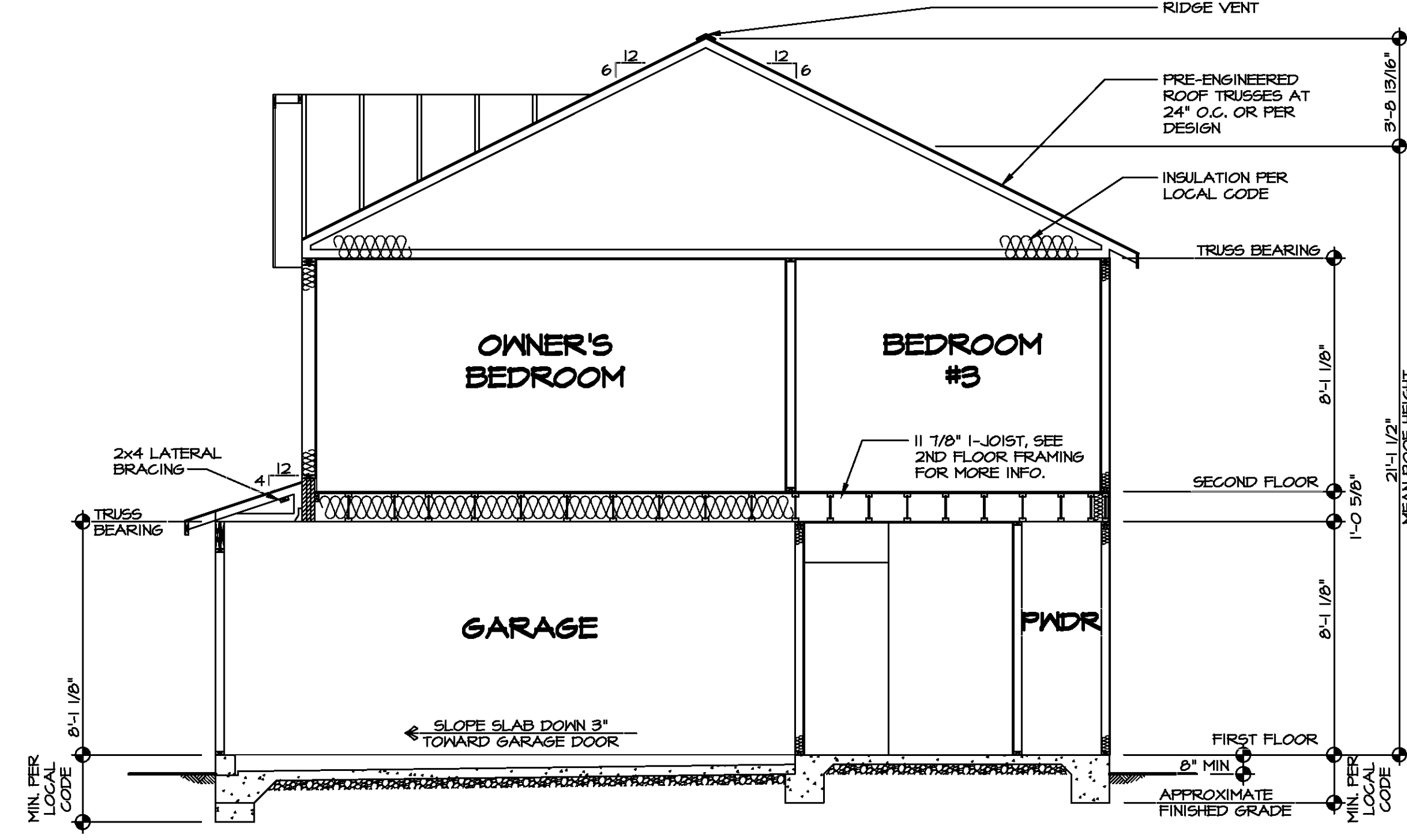
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SET NO. CDROO  
VERSION 01  
DRAWN BY  
DATE:  
OPTION

MODEL  
**CEDAR**  
DRAWING TITLE  
**BUILDING SECTION - FOYER**  
OPTION DESCRIPTION

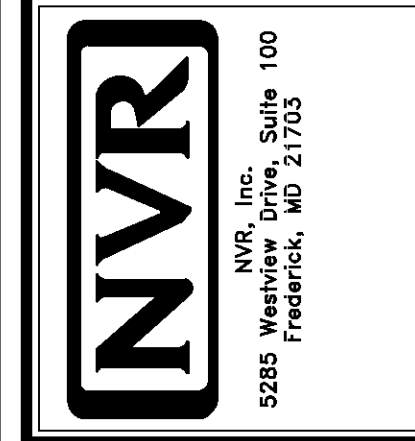
SHEET NO.  
**A-9**  
||



**BUILDING SECTION - GARAGE**  
 SCALE: 1/4" = 1'-0"



DIV-COMM-LOT-UNIT  
 COMM-LOT  
 STREET ADDRESS  
 CITY STATE ZIP  
 APT. NO.  
 ZIP



SHEET NO. <b>A-10</b>	MODEL <b>CEDAR</b>	SET NO. <b>01</b>	CDROO VERSION <b>01</b>
OPTION DESCRIPTION <b>12</b>	DRAWING TITLE <b>BUILDING SECTION - GARAGE</b>	DRAWN BY	DATE:
		OPTION	





TRUSS SCHEDULE					
IDENTIFIER	SPECS	TRUSS NUMBER	LENGTH	ROOF PITCH (X/Y/Z)	TYPE
AA	SE	16403	28'-0"	6/12	COMMON
AB	SE	16404	28'-0"	6/12	SPECIAL
AC	SE	16400	3'-0"	6/12	MONO
AD	SE	16408	28'-0"	6/12	COMMON
AE	SE	16401	28'-0"	6/12	SPECIAL
AF	SE	16410	28'-0"	6/12	GABLE END
AG	SE	16413	28'-0"	6/12	GABLE END
V01	VT	43344	4'-0"	6-6/12	VALLEY
V02	VT	43345	8'-0"	6-6/12	VALLEY
V03	VT	43346	12'-0"	6-6/12	VALLEY
V04	VT	43401	16'-0"	6-6/12	VALLEY
V05	VT	45401	20'-0"	6-6/12	VALLEY
V06	VT	45402	4'-0"	6-6/12	VALLEY

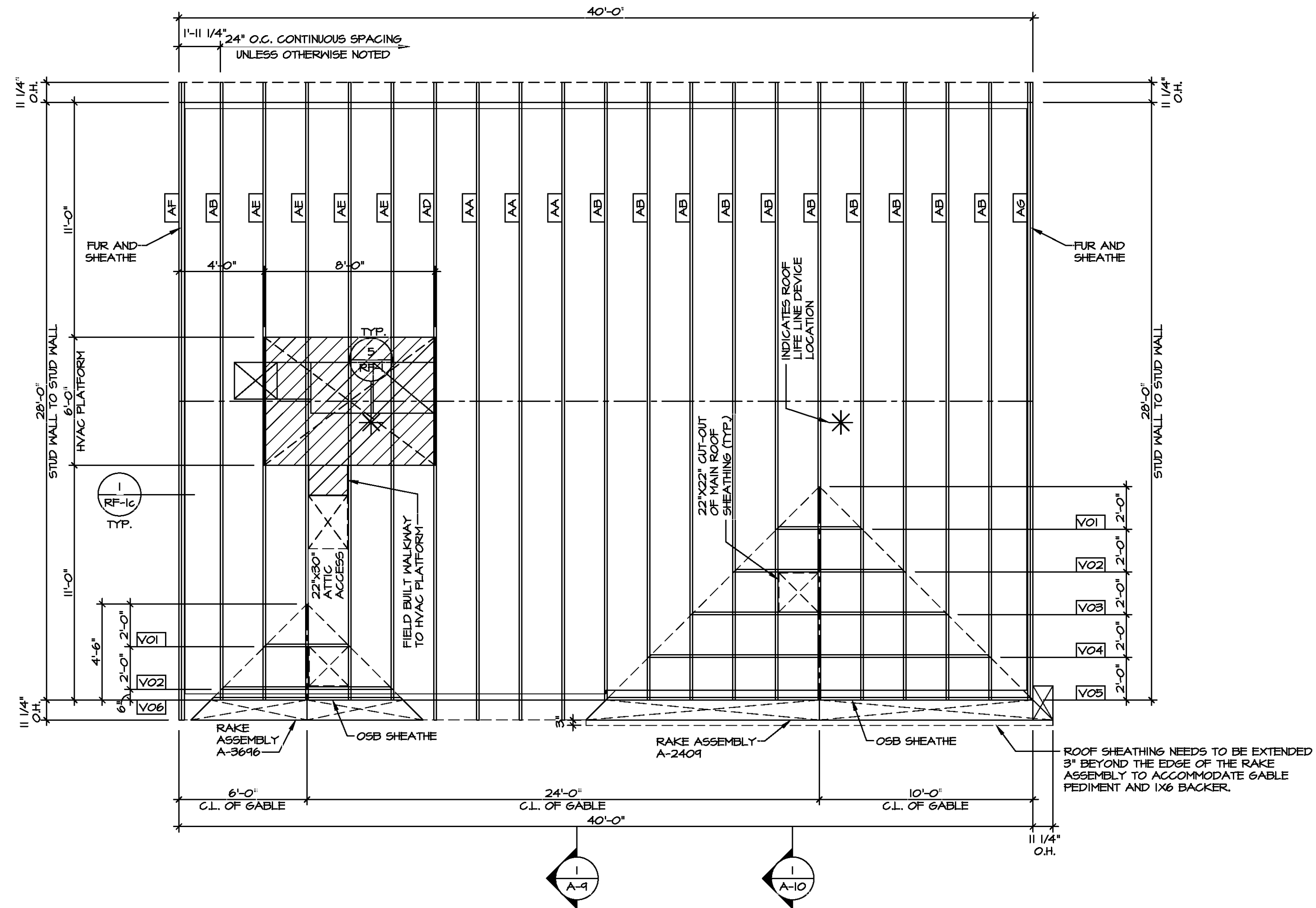
FIELD INSTALLED ROOF FRAMING BEAM/HEADER SCHEDULE				
IDENTIFIER	DESCRIPTION	LENGTH	ENG. NUM.	REMARKS
B801	BEAM BUILT 2X8 - 2 PLY RFF	7'-6"	1012	

- ROOF FRAMING NOTES**
- REFER TO THE STANDARD DETAILS FOR THE FOLLOWING:
    - TRUSS TIE-DOWNS (1/RF-1)
    - PIGGYBACK TRUSS ATTACHMENT (2/RF-1)
    - VALLEY GABLE TRUSS BRACING (3/RF-1)
    - GABLE BRACING (1/RF-1c)
    - TRUSS BRACING (2/RF-1c)
    - LIFELINE ATTACHMENT (5/RF-1)
    - FALL PROTECTION ON PLATFORM TRUSSES (1/RF-1)
  - IF TRUSS DOES NOT APPEAR ON THE TRUSS BRACING SHEET, NO ADDITIONAL LATERAL BRACING REQUIRED.

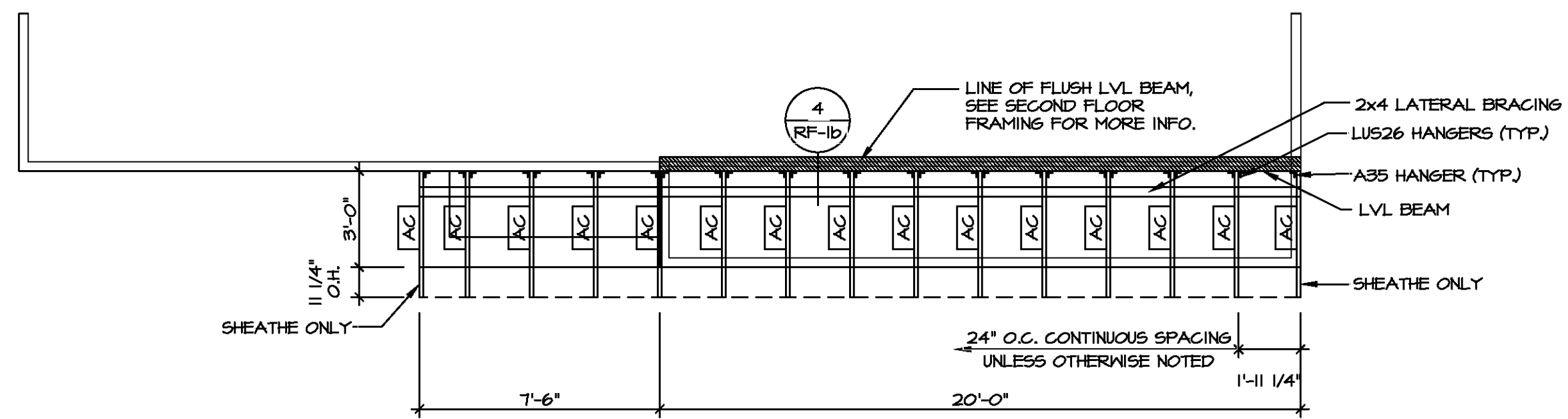
**LEGEND**

- BEARING WALL
- NON BEARING WALL
- INDICATES BEARING FROM POINT-LOAD ABOVE
- JACKS
- BEAMHEADER
- PAD FOOTING
- STEEL COLUMN
- TRUSS TIE DOWN
- PORTAL FRAME
- JOIST/TRUSS
- LVL
- ENGINEERING PAGE NUMBER

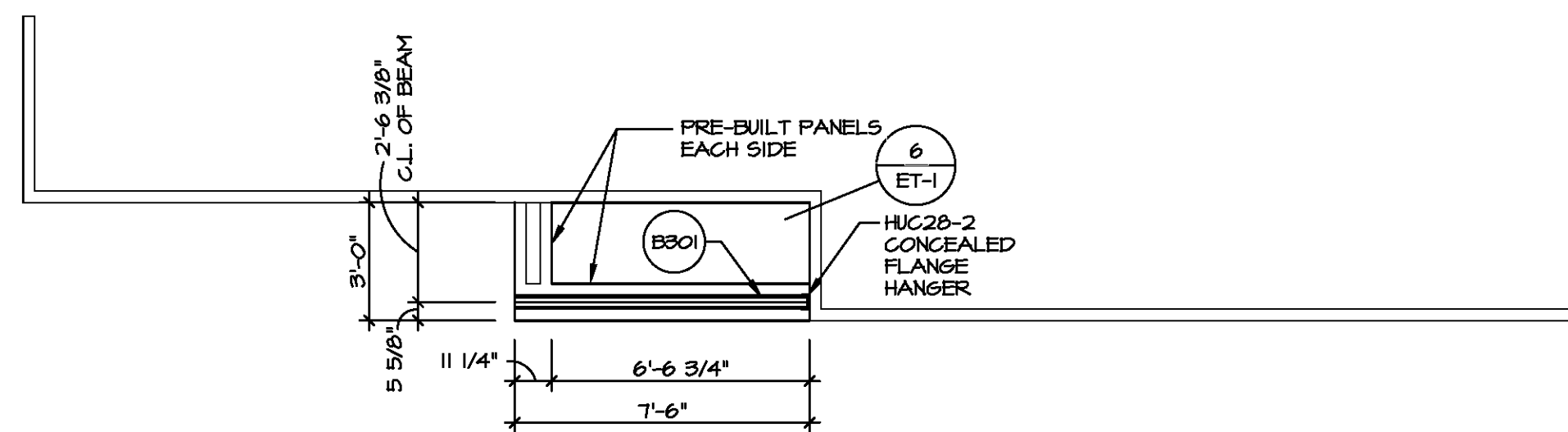
SEE FC DETAILS FOR FRAMING CONNECTORS



**1 ROOF FRAMING**  
SCALE: 1/4" = 1'-0"



**4 PARTIAL ROOF FRAMING PLAN**  
SCALE: 1/4" = 1'-0"



**5 PORCH BEAM PLAN**  
SCALE: 1/4" = 1'-0"

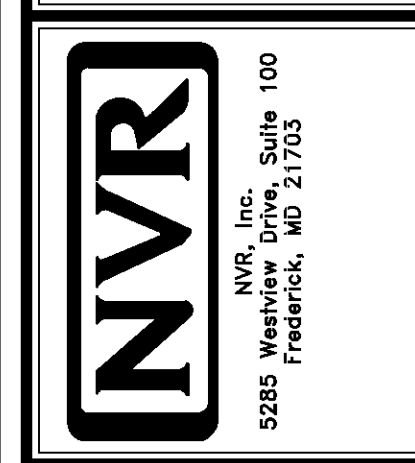
DIV-COMM-LOT-UNIT

COM-LOT

STREET ADDRESS

CITY STATE ZIP

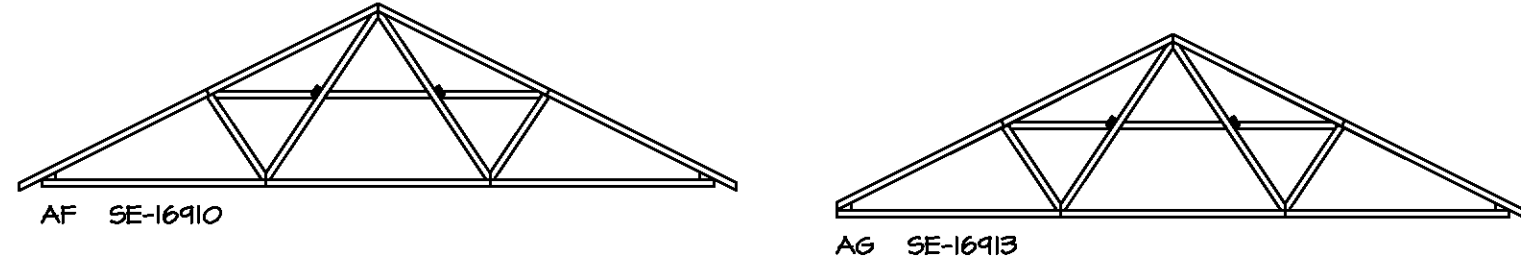
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MODEL	SET NO. CDROO
CEDAR	VERSION 01
DRAWING TITLE	DRAWN BY
ROOF FRAMING	DATE:
OPTION DESCRIPTION	OPTION
SHEET NO.	21
<b>S-3</b>	

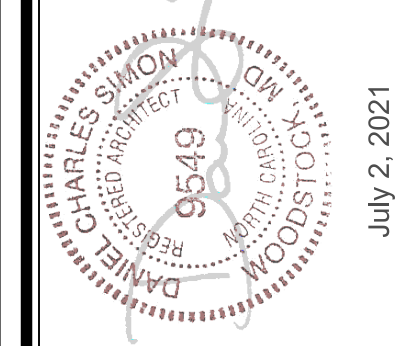
**TRUSS BRACING NOTES**

- IF TRUSS DOES NOT APPEAR ON THIS TRUSS BRACING SHEET, NO ADDITIONAL LATERAL BRACING IS REQUIRED.
- 1X6 SPP#2 LATERAL BRACES SHALL BE NAILED TO MINIMUM (3) TRUSS MEMBERS WITH MINIMUM (2) 10D NAILS. PROVISIONS MUST BE MADE AT ENDS OR SPECIFIED INTERVALS TO RESTRAIN OR ANCHOR LATERAL BRACING.
- WEB T<sup>1</sup> BRACE, DETAIL 3/RF-1c, IS REQUIRED WHERE LATERAL BRACING IS NOT CONTINUOUS ACROSS THREE (3) OR MORE TRUSSES AND MAY BE USED IN LIEU OF 1X6 LATERAL BRACING.
- DIAGONAL BRACING REQUIRED WHEN LATERAL BRACING IS REQUIRED (1/RF-1)
- STUDDED GABLE BRACING DETAIL 1/RF-1c TO BE UTILIZED FOR TRUSSES 6'-4" IN HEIGHT OR GREATER.
- PARTIALLY SHEATHED GABLES, SEE 5/RF-1c FOR "L" BRACING WHEN REQUIRED.
- LATERAL BRACING CAN BE APPLIED TO EITHER SIDE OF THE WEB MEMBER IDENTIFIED IN THE DRAWING.
- SHEATHING (OSB OR GYPSUM) REPLACES LATERAL AND DIAGONAL TRUSS BRACING.



**TRUSS BRACING DETAILS**

SCALE: 1/8" = 1'-0"

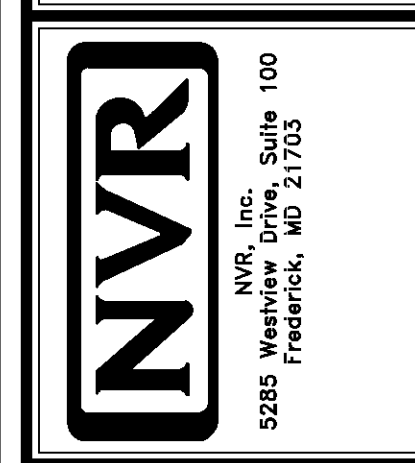


DIV-COMM-LOT-UNIT  
 COMM-LOT  
 STREET ADDRESS  
 CITY STATE ZIP

APT. NO.  
 STATE  
 ZIP

1  
 S-4

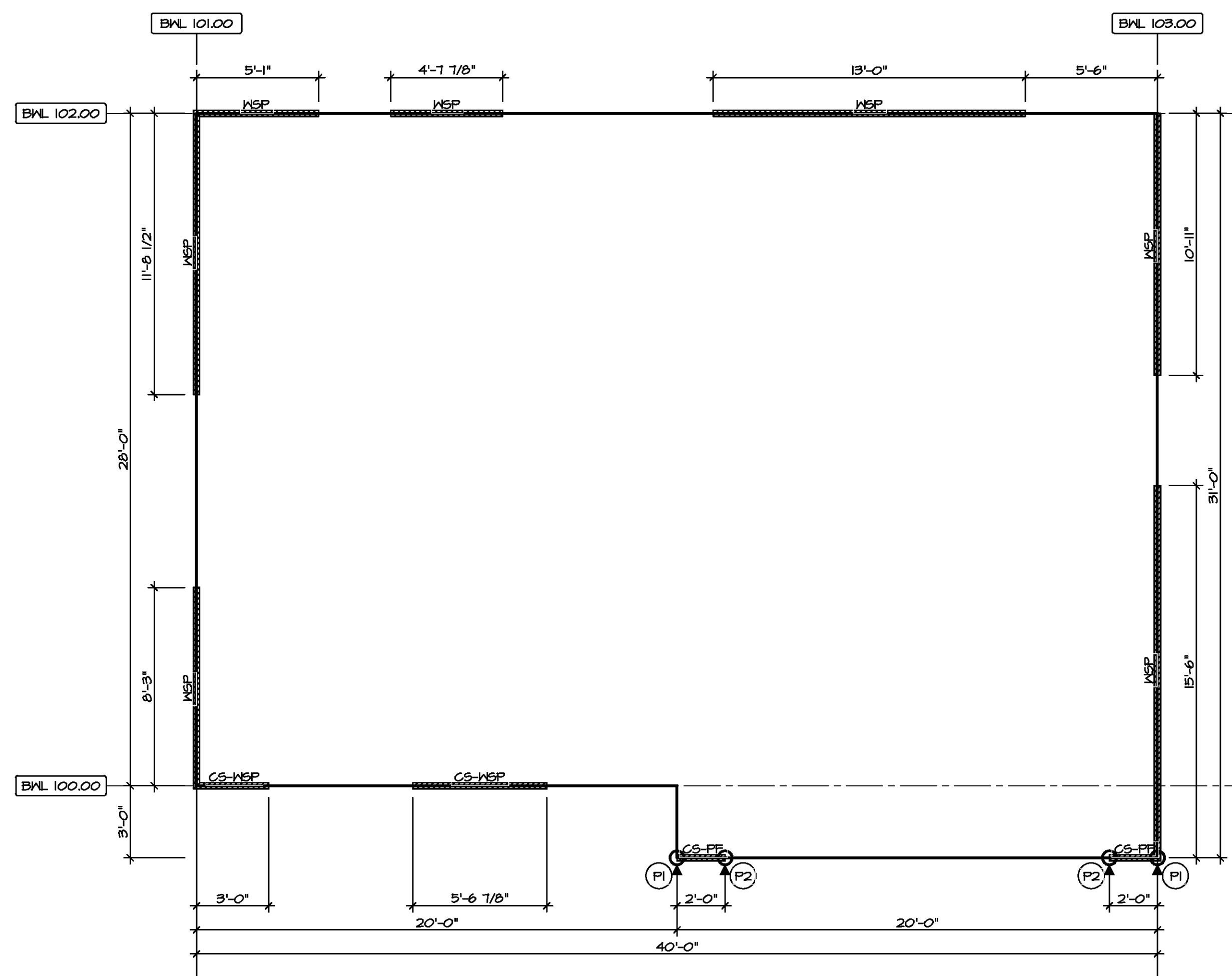
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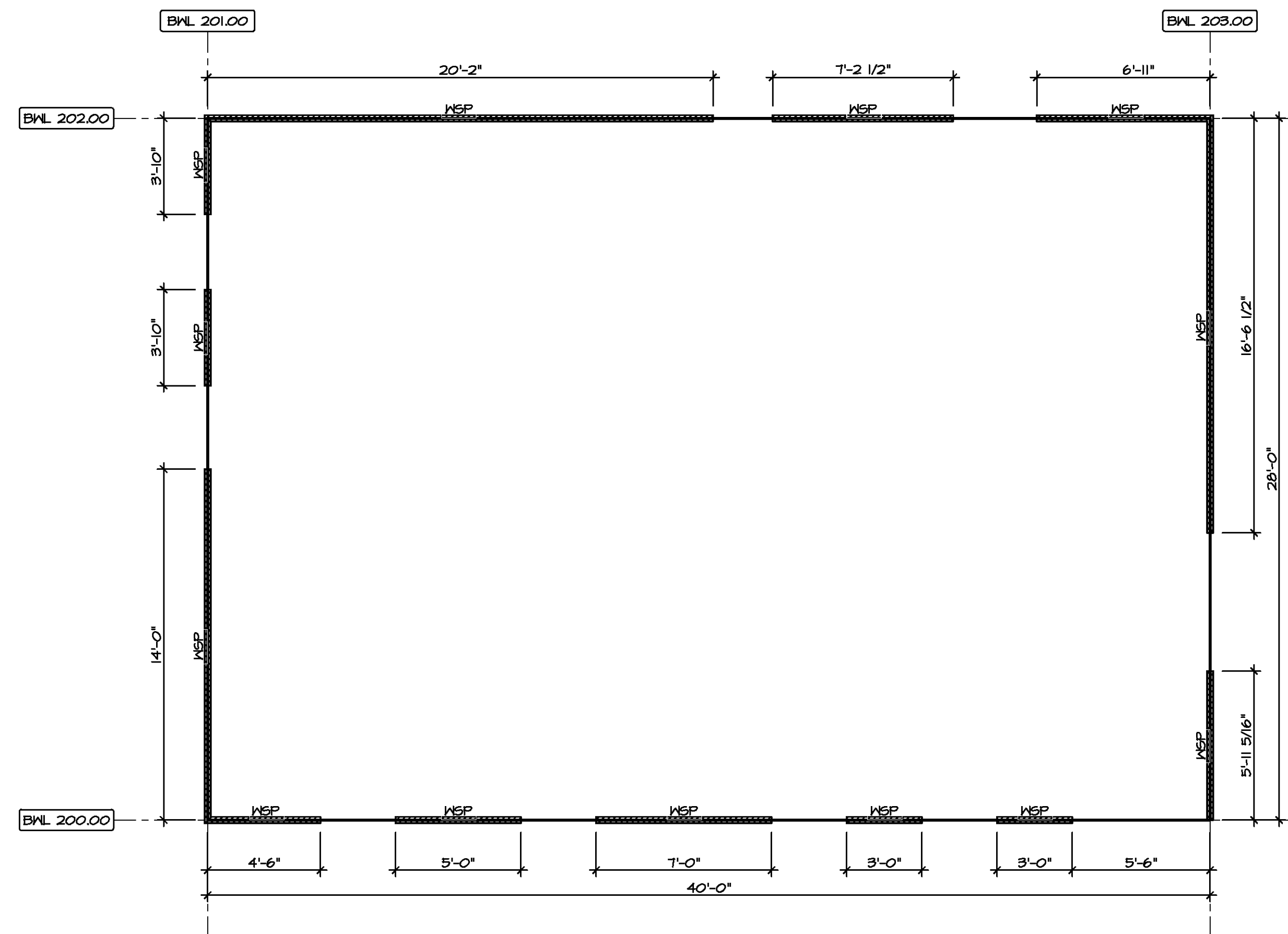
SET NO. CDROO  
 VERSION 01  
 DRAWN BY  
 DATE:  
 OPTION

MODEL  
**CEDAR**  
 DRAWING TITLE  
**TRUSS BRACING DETAILS**  
 OPTION DESCRIPTION

SHEET NO.  
**S-4**  
 22



**FIRST FLOOR  
BRACED WALL DETAIL**  
SCALE: 1/4" = 1'-0"



**SECOND FLOOR  
BRACED WALL DETAIL**  
SCALE: 1/4" = 1'-0"

**LEGEND**

BWL XXXXX	BRACED WALL LINE I.D.
---	BRACED WALL LINE
---	HOUSE WALL
	BRACED WALL PANEL
WSP	WOOD STRUCTURAL PANEL
GB	GYPSUM BOARD (1) SIDED OR (2) SIDED
GB-BM	GYPSUM BOARD BLOCKED WALL CONSTRUCTION (1) SIDED OR (2) SIDED (SEE STANDARD DETAIL 6/MB-2)
LIB	LET-IN BRACING (SEE STANDARD DETAIL F / MB-2)
CS-WSP	CONTINUOUS SHEATHING - WOOD STRUCTURAL PANEL
CS-PF	CONTINUOUS SHEATHING - PORTAL FRAME. SEE FLOOR PLANS FOR PORTAL FRAME HEADER INFORMATION (SEE STANDARD DETAIL A, C / MB-2)
CS-G	CONTINUOUS SHEATHING - WOOD STRUCTURAL PANEL ADJACENT TO GARAGE OPENINGS
○	HOLD-DOWN 1. SEE SHEET MB-2 "P." INDICATOR SCHEDULE AND DETAILS 2. ARROW INDICATES LOCATION

**NOTES:**  
HOUSE HAS BEEN ANALYZED UTILIZING A PRESCRIPTIVE METHOD IN COMPLIANCE WITH INTERNATIONAL RESIDENTIAL CODES (IRC) UNLESS OTHERWISE NOTED.

**FASTENING SCHEDULE**

SHEATHING	FASTENER	SPACING	
		EDGES	FIELD
1/16" WOOD STRUCTURAL PANELS OR EQUIVALENT (W METHOD WSP, CS-WSP, CS-G)	8d COMMON NAILS  ALTERNATIVE FASTENER 1-3/4" 16-GAUGE CORROSION RESISTANT STAPLES	6" O.C.	12" O.C.
1/2" GYPSUM WALLBOARD (W METHOD GB-1, GB-2)	1-1/4" LONG, 1/4" HEAD, 0.98" DIA. ANNULAR-RINGED NAILS CORROSION RESISTANT TYPE W 1-1/4" DRYWALL SCREWS	7" O.C.	7" O.C.
LAMINATED FIBROUS STRUCTURAL SHEATHING	10d X 1 1/4" GALVANIZED ROOFING NAILS 1-1/4" 16-GAUGE CORROSION RESISTANT STAPLES	3" O.C.	3" O.C.
1/2" GYPSUM WALLBOARD BLOCKED AT THE EDGES (W METHOD GB-BM-1, GB-BM-2)	BLOCKING REQUIRED AT ALL GYPSUM EDGES. USE CORROSION RESISTANT TYPE W 1-1/4" DRYWALL SCREWS	4" O.C.	12" O.C.

**BRACED WALL LINE SCHEDULE**

WIND SPEED (ULT)	IDENTIFIER	ACTUAL (FT)	REQUIRED (FT)	METHOD
130 MPH	BWL 100.00	14.57'	9.36'	CONTINUOUS (2 SIDES)
130 MPH	BWL 101.00	14.96'	14.78'	WSP (2 SIDES)
130 MPH	BWL 102.00	22.74'	10.73'	WSP (2 SIDES)
130 MPH	BWL 103.00	26.42'	15.24'	WSP (2 SIDES)
130 MPH	BWL 200.00	21.00'	5.18'	WSP (2 SIDES)
130 MPH	BWL 201.00	21.32'	7.06'	WSP (2 SIDES)
130 MPH	BWL 202.00	34.24'	5.18'	WSP (2 SIDES)
130 MPH	BWL 203.00	25.13'	7.06'	WSP (2 SIDES)

DIV-COMM-LOT-UNIT  
COMM-LOT  
STREET ADDRESS  
CITY  
STATE  
ZIP

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5285 Walkers Lane  
Frederick, MD 21703

MODEL: CEDAR  
DRAWING TITLE: BRACED WALL PANEL DETAIL  
OPTION DESCRIPTION: 2B

SET NO. CDROO  
VERSION 01  
DRAWN BY:  
DATE:  
OPTION

SHEET NO. S-5  
2B