



Proposed 18x36 RV Shelter
 Powellson - 919 820 7520 REGULAR / A-FRAME
 3621 Rawls Church Rd. 18'-0" WIDE
 Fuquay Varina, NC 27526 CARPORT STYLE BUILDINGS

DESIGN NOTES

1. ALL CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH IBC 2009, OSHA, AISC 360, ASCE 7-05, AWS D 1.1 CODES AND ALL APPLICABLE LOCAL REQUIREMENTS.
2. BASE CONNECTIONS SHALL BE PROVIDED AS SHOWN ON FOUNDATION DETAILS SHEET.
3. ALL MATERIALS IDENTIFIED BY MANUFACTURER NAME MAY BE SUBSTITUTED WITH MATERIAL EQUAL OR EXCEEDING ORIGINAL.
4. ALL SHOP CONNECTIONS SHALL BE WELDED CONNECTIONS.
5. ALL FIELD CONNECTIONS SHALL BE TEKS #12 (1/4"x1").
6. STEEL SHEATHING SHALL BE 29GA. CORRUGATED GALV. OR PAINTED STEEL - MAIN RIB HT. 3/4" (FY=80KSI) OR EQ.
7. ALL STRUCTURAL LIGHT GAUGE TUBING AND CHANNELS SHALL BE GRADE 50 GALV. STEEL.
8. STRUCTURAL TUBE T52 1/2"x2 1/2" - 14GA. IS EQUIVALENT TO T52 1/4"x2 1/4" - 12GA AND EITHER ONE MAY BE USED IN LIEU OF THE OTHER.

DESIGN CRITERIA

- PREVAILING CODE: NSBC 2012 (IBC 2009)
 USE GROUP: U (CARPORTS, BARN)
1. DEAD LOAD (D) $D = 4 \text{ PSF}$
 2. ROOF LIVE/SNOW LOAD (Lr)
 $Lr = 20 - 70 \text{ PSF}$
 (AS PER SNOW LOAD)
 3. SNOW LOAD (S)
 GROUND SNOW LOAD $P_g = 20 - 90 \text{ PSF}$
 IMPORTANCE FACTOR $I_s = 0.8$
 4. WIND LOAD (W)
 BASIC WIND SPEED $V_{ASD} = 90 - 150 \text{ MPH}$
 EXPOSURE C
 IMPORTANCE FACTOR $I_w = 0.87 (V_{ASD} \leq 100)$
 $0.77 (V_{ASD} > 100)$
 5. SEISMIC LOAD (E)
 DESIGN CATEGORY D
 IMPORTANCE FACTOR $I_e = 1.00$

LOAD COMBINATIONS:

1. $D + (Lr \text{ OR } S)$
2. $D + (W \text{ OR } \pm 0.7E)$
3. $D + 0.75 (W \text{ OR } \pm 0.7E) + 0.75 (Lr \text{ OR } S)$
4. $0.6D + (W \text{ OR } \pm 0.7E)$

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MANUFACTURED BY:

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DRAWING INFORMATION

PROJECT: 18'-0" WIDE BUILDINGS
 LOCATION: STATE OF NORTH CAROLINA
 PROJECT NO.: 114-15-0686
 SHEET TITLE: COVER SHEET
 SHEET NO.: 1 / 11
 DRAWN BY: IZM DATE: 6/29/15
 CHECKED BY: OAA DATE: 6/29/15

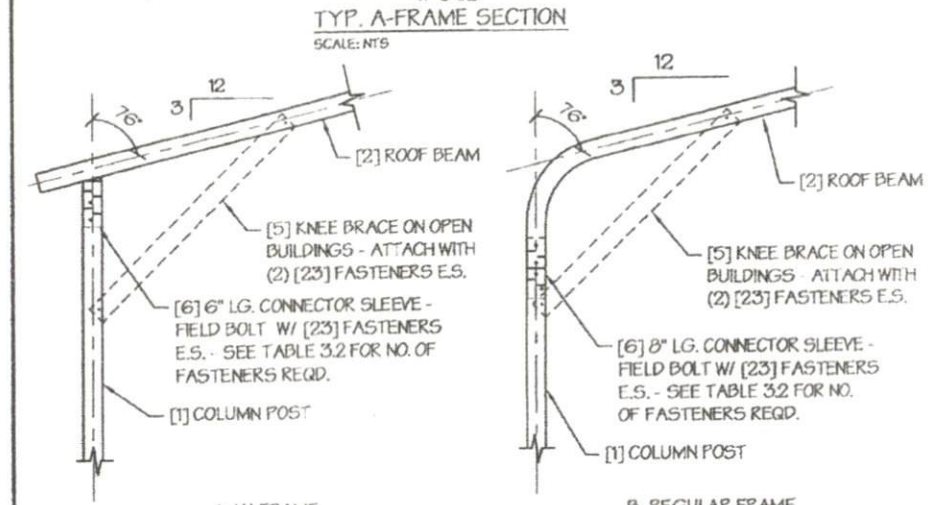
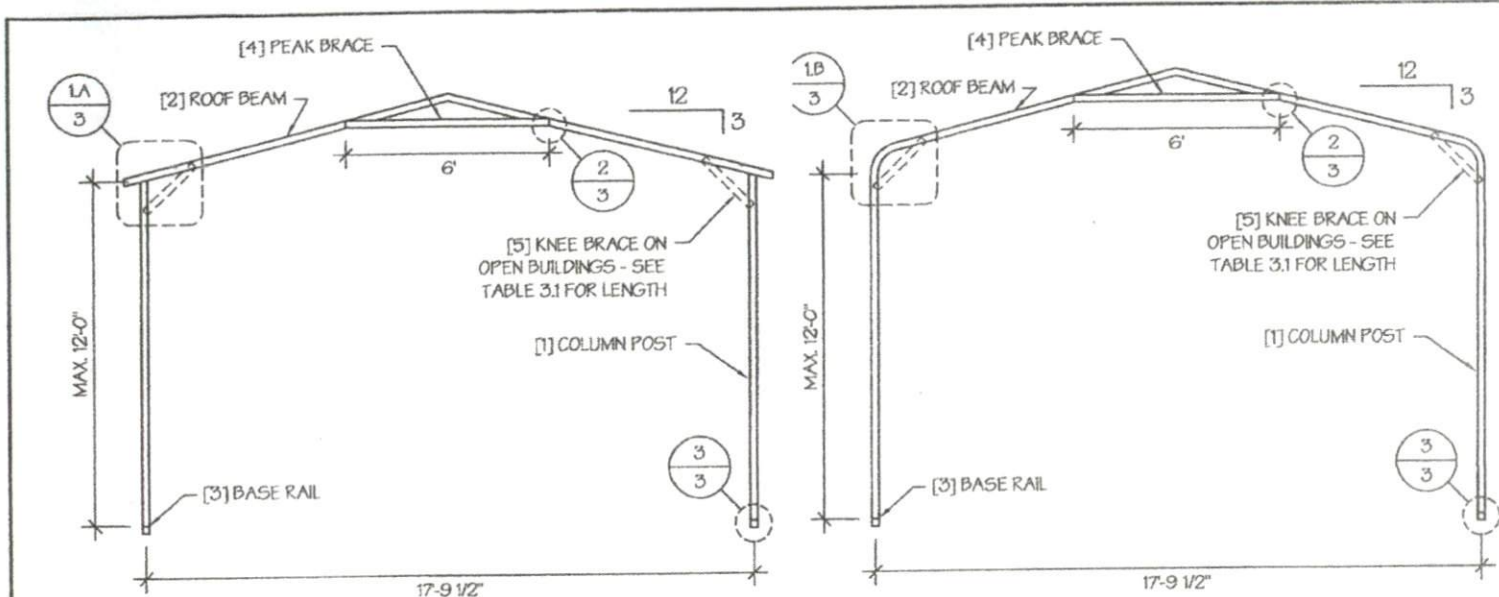
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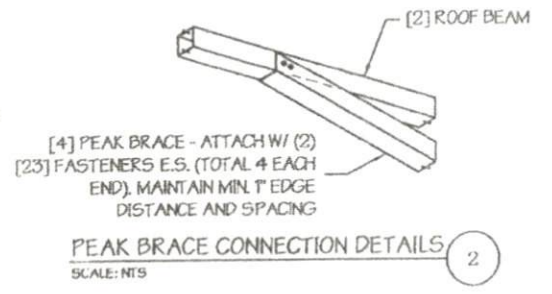


DATE EXPIRES: 06/29/2015
 DATE SIGNED: JUN 29 2015

CUSTOMER INFORMATION	DESIGN LOADS	BUILDING INFORMATION	CERTIFICATION VALIDITY NOTICE
OWNER: ADDRESS:	GROUND SNOW: ROOF LIVE LOAD: BASIC WIND SPEED:	WIDTH: LENGTH: HEIGHT: FRAME TYPE: ENCLOSURE TYPE:	DATE OF ISSUE: 07/01/2015 CERTIFICATION ON THESE DRAWINGS IS VALID FOR ONE YEAR FROM DATE OF ISSUE
		<input type="checkbox"/> A-FRAME <input type="checkbox"/> REGULAR <input type="checkbox"/> FULL <input type="checkbox"/> PARTIAL <input type="checkbox"/> OPEN	



EAVE DETAIL
SCALE: NTS



BASE DETAIL
SCALE: NTS

TABLE 3.1: KNEE BRACE SCHEDULE*

EAVE HEIGHT	KNEE BRACE LENGTH
UP TO 8'	24"
9' TO 12'	36"

* REQUIRED ON OPEN BUILDINGS

TABLE 3.2 FASTENER SCHEDULE

WIND SPEED (MPH)	NO. OF FASTENERS
90 TO 105	4
110 TO 130	6
135 TO 150	8

NOTE: COLUMN POST MAY BE ADJUSTED ±1" FOR LEVELING. MANUFACTURER IS NOT RESPONSIBLE FOR LEVELING OF GROUND AND/OR CONCRETE SURFACE PROVIDED BY OTHERS.

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PROJECT: 18'-0" WIDE BUILDINGS
LOCATION: STATE OF NORTH CAROLINA
PROJECT NO.: 114-15-0686
SHEET TITLE: FRAME SECTIONS & DETAILS

SHEET NO.: 3 / 11

DRAWN BY: IZM DATE: 6/29/15
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TABLE 5.1: PURLIN SPACING SCHEDULE

GROUND SNOW / ROOF LIVE LOAD (PSF)	14GA. HAT CHANNEL PURLIN								18GA. HAT CHANNEL PURLIN							
	WIND SPEED (MPH)								WIND SPEED (MPH)							
	90	100	110	120	130	140	150		90	100	110	120	130	140	150	
30/20	54	48	42	36	30	24	24	36	30	24	18	18	12	12		
40/25	48	48	42	36	30	24	24	30	30	24	18	18	12	12		
50/35	48	48	42	36	30	24	24	24	24	24	18	18	12	12		
60/40	36	36	36	36	30	24	24	18	18	18	18	18	12	12		
70/50	36	36	36	36	30	24	24	18	18	18	18	18	12	12		
80/60	30	30	30	30	30	24	24	18	18	18	18	18	12	12		
90/70	24	24	24	24	24	24	24	12	12	12	12	12	12	12		
30/20	54	48	42	42	36	30	30	48	36	30	24	18	18	12		
40/25	48	48	42	42	36	30	30	42	36	30	24	18	18	12		
50/35	48	48	42	42	36	30	30	30	30	30	24	18	18	12		
60/40	42	42	42	42	36	30	30	30	30	30	24	18	18	12		
70/50	42	42	42	42	36	30	30	24	24	24	24	18	18	12		
80/60	36	36	36	36	36	30	30	18	18	18	18	18	18	12		
90/70	36	36	36	36	36	30	30	18	18	18	18	18	18	12		
30/20	54	48	42	42	36	36	30	54	48	36	30	24	24	18		
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70/50	42	42	42	42	36	36	30	30	30	30	30	24	24	18		
80/60	36	36	36	36	36	36	30	24	24	24	24	24	24	18		
90/70	36	36	36	36	36	36	30	24	24	24	24	24	24	18		
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80/60	36	36	36	36	36	36	30	36	36	36	36	36	30	30		
90/70	36	36	36	36	36	36	30	36	36	36	36	36	30	30		
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80/60	36	36	36	36	36	36	30	36	36	36	36	36	36	30		
90/70	36	36	36	36	36	36	30	36	36	36	36	36	36	30		

- NOTES:
 1. PURLIN SPACING UNITS ARE IN INCHES.
 2. FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

TABLE 5.2: GIRT SPACING SCHEDULE

FRAME SPACING	WIND SPEED (MPH)						
	90	100	110	120	130	140	150
5'-0"	60	48	36	30	24	24	18
4'-6"	60	60	48	42	36	30	24
4'-0"	60	60	54	54	42	36	30
3'-6"	60	60	54	54	48	42	42
2'-0" TO 3'-0"	60	60	54	54	48	42	42

- NOTES:
 1. GIRT SPACING UNITS ARE IN INCHES.
 2. THIS SCHEDULE IS TO BE USED FOR BOTH 14GA AND 18 GA PURLINS.
 3. FRAME SPACING NEEDS TO BE DETERMINED FROM TABLE 4.

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DRAWING INFORMATION

PROJECT: 18'-0" WIDE BUILDINGS
 LOCATION: STATE OF NORTH CAROLINA
 PROJECT NO.: 114-15-0686
 SHEET TITLE: PURLIN & GIRT SPACING SCHEDULES
 SHEET NO.: 5 / 11
 DRAWN BY: IZM DATE: 6/29/15
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LEGAL INFORMATION

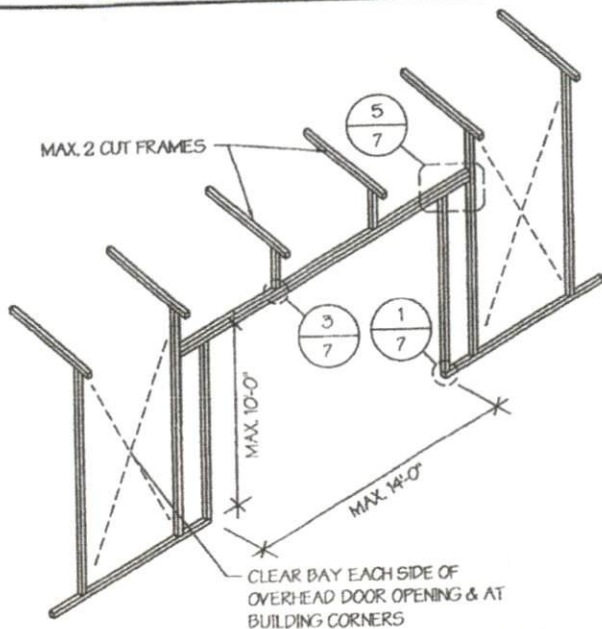
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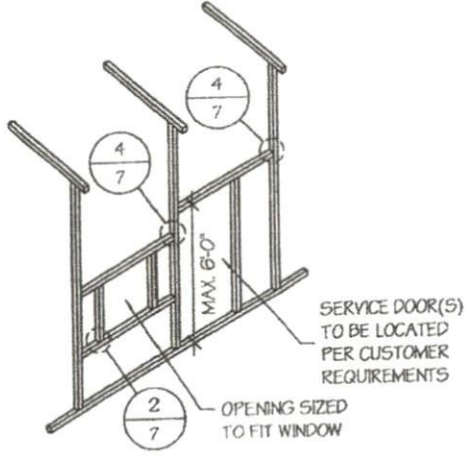


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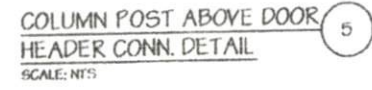
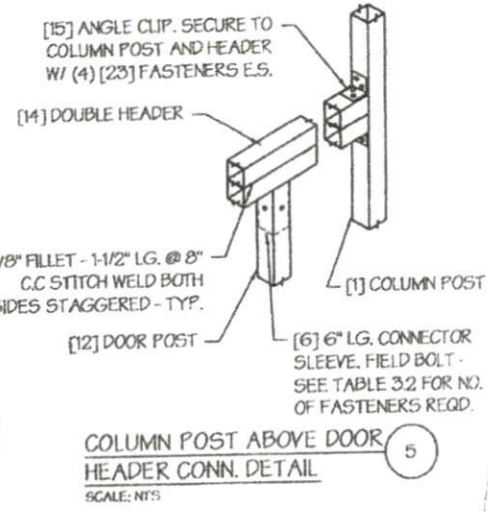
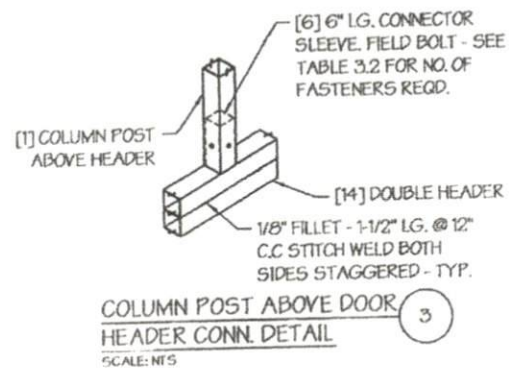
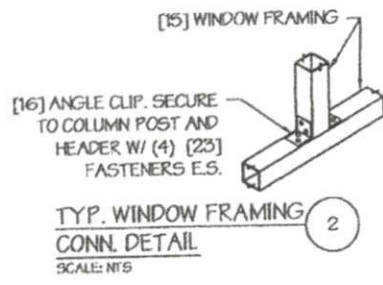
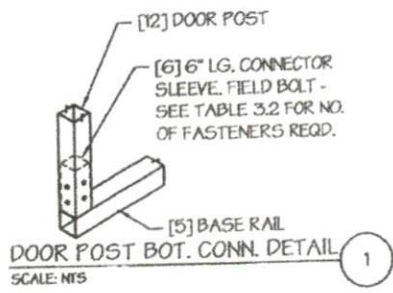
SIDE WALL OVER HEAD DOOR OPENINGS
SCALE: NTS



SIDE WALL SERVICE DOOR / WINDOW OPENINGS
SCALE: NTS

SIDE WALL FRAMING NOTES:

- DESIGNS AND DETAILS SHOWN HERE ARE APPLICABLE TO BOTH REGULAR AND A-FRAME STYLE BUILDINGS.
- MAX. HEIGHT OF SIDE WALL DOOR OPENINGS DEPENDS ON POST LENGTH NEEDED TO ACCOMMODATE KNEE BRACES.
- OVERHEAD DOOR OPENINGS CANNOT CUT THROUGH MORE THAN 2 FULL FRAMES.
- MIN. 1 CLEAR BAY MUST BE MAINTAINED BETWEEN ANY 2 OVERHEAD DOOR OPENINGS. A CLEAR BAY IS A SPACE BETWEEN TWO FRAMES THAT HAS NO OVERHEAD DOOR OPENINGS.
- MIN. 1 CLEAR BAY MUST ALSO BE MAINTAINED FROM THE BUILDING CORNERS.
- SERVICE DOORS AND WINDOWS CAN BE PLACED IN CLEAR BAYS OR ANY WHERE ELSE AS NEEDED.



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DRAWING INFORMATION

PROJECT: 18'-0" WIDE BUILDINGS

LOCATION: STATE OF NORTH CAROLINA

PROJECT NO.: 114-15-0686

SHEET TITLE: **SIDE WALL FRAMING & OPENINGS**

SHEET NO.: 7 / 11

DRAWN BY: IZM DATE: 6/29/15

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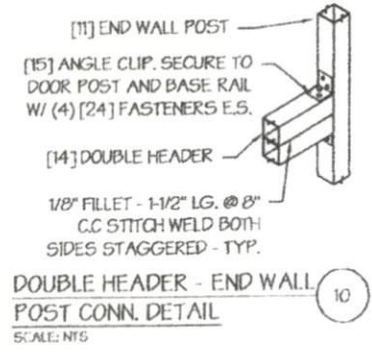
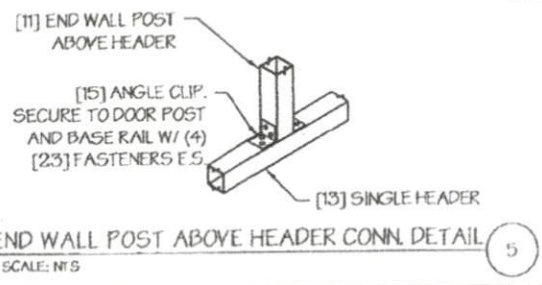
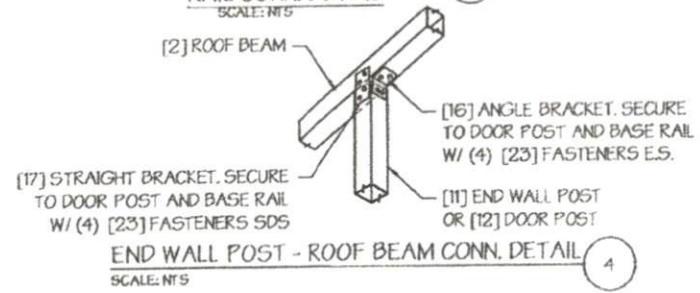
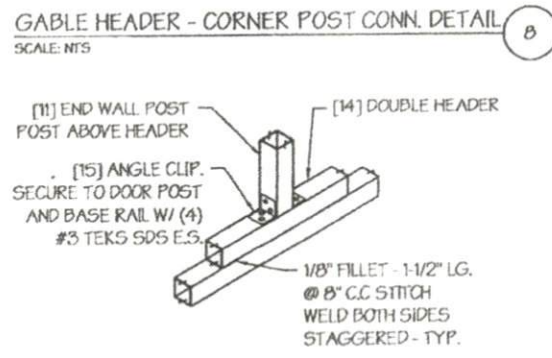
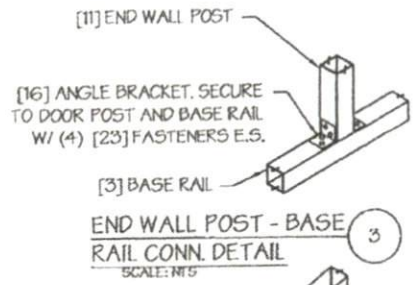
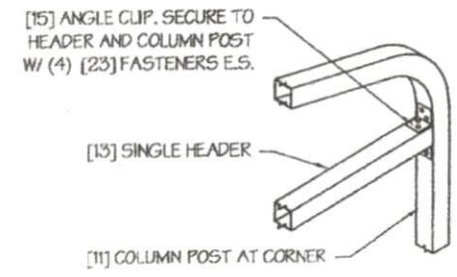
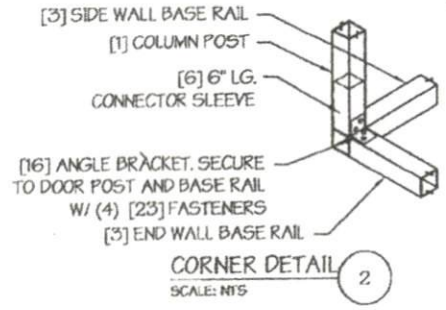
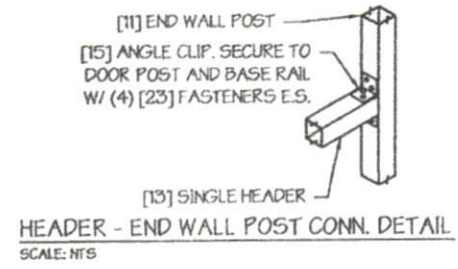
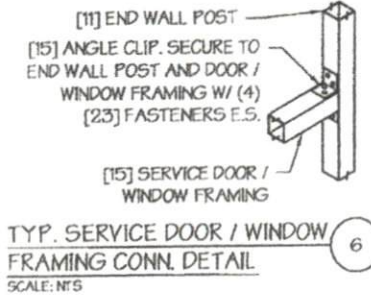
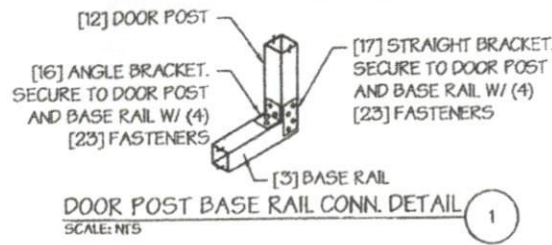
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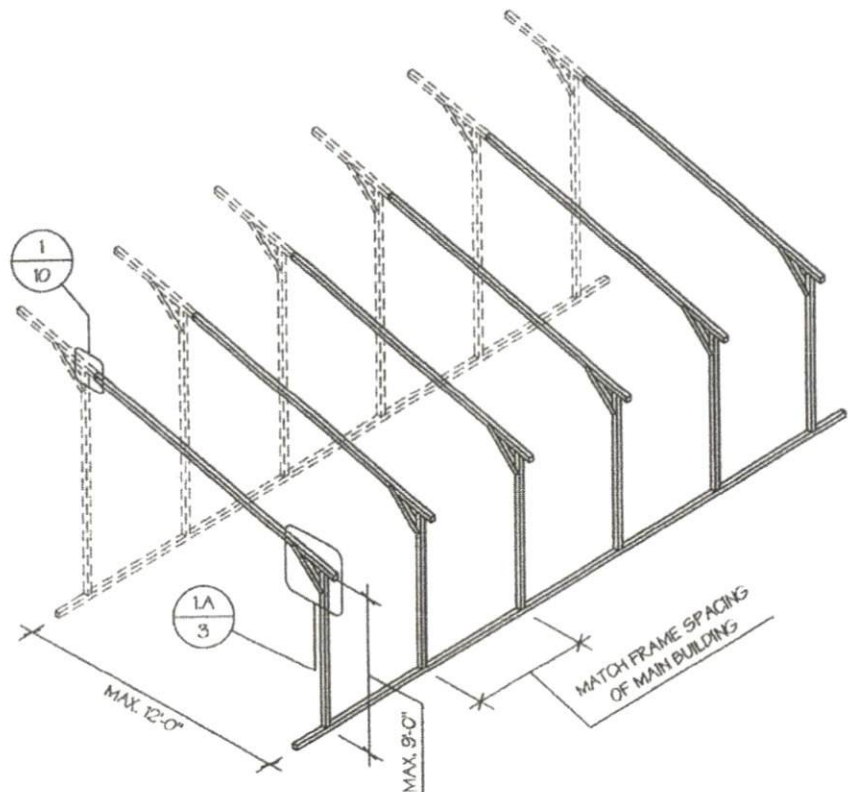
PROJECT: 18'-0" WIDE BUILDINGS
LOCATION: STATE OF NORTH CAROLINA
PROJECT NO.: 114-15-0686
SHEET TITLE: END WALL FRAMING DETAILS
SHEET NO.: B-B / 11
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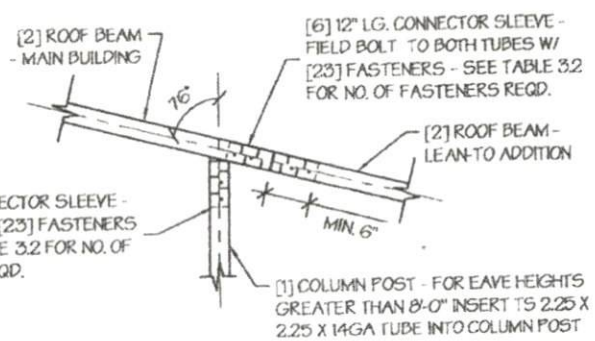
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OPTIONAL LEAN-TO ADDITION
SCALE: NTS



LEAN-TO ATTACHMENT DETAIL 1
SCALE: NTS

LEAN-TO ADDITION NOTES:

1. LEAN-TO ADDITIONS CAN BE ADDED ON EITHER OR BOTH SIDES OF THE BUILDING.
2. ROOF SLOPE AND PURLIN, GIRT AND FRAME SPACINGS OF THE ADDITION HAVE TO MATCH THAT OF THE MAIN STRUCTURE.
3. IF THE LEAN-TO ADDITION IS "OPEN" (BOTH END WALLS OR SIDE WALL IS NOT ENCLOSED), THE DESIGN OF THE MAIN BUILDING HAS TO USE THE FRAME SPACING OF AN OPEN BUILDING FROM TABLE 4.

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TABLE 11-B.1: ANCHOR SCHEDULE

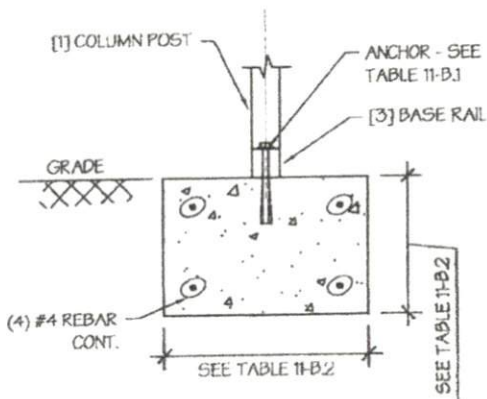
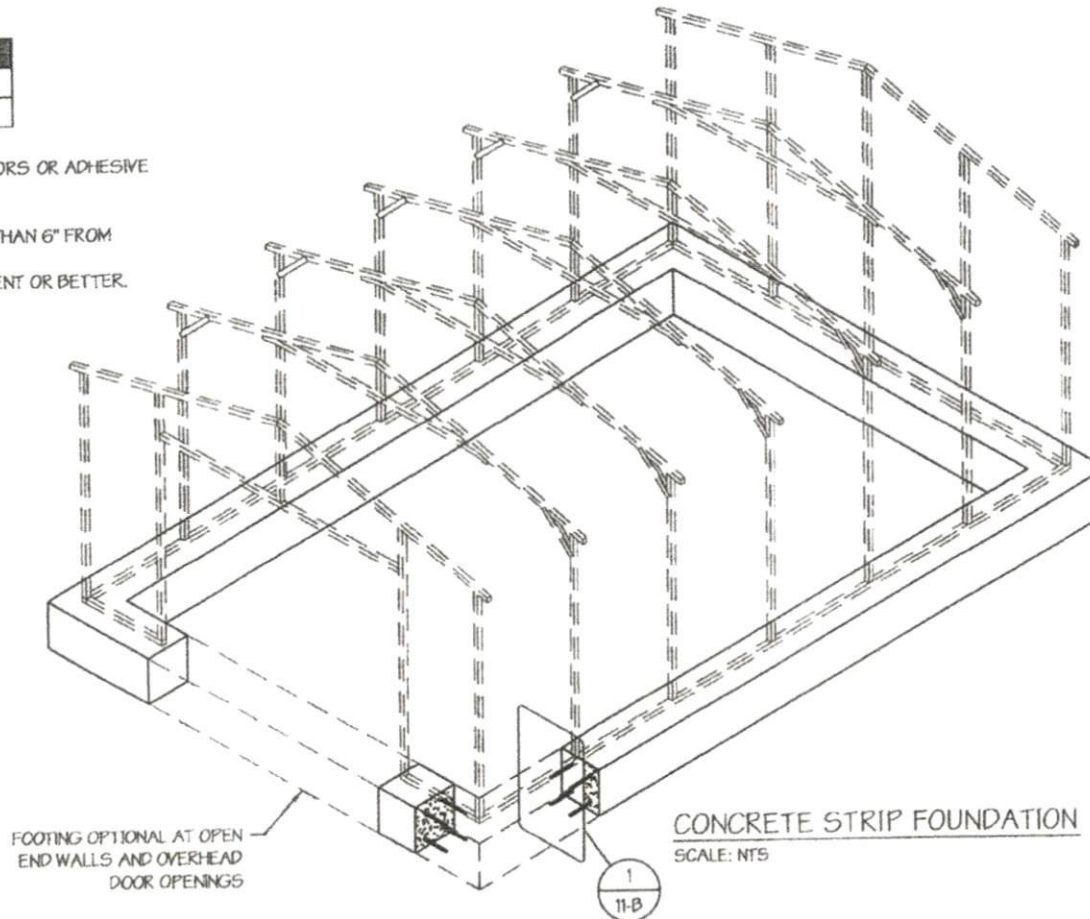
WIND SPEED (MPH)	ANCHOR SIZE
90 TO 120	1/2"Ø X 7"
130 TO 150	5/8"Ø X 7"

- NOTES:
1. EXPANSION ANCHORS, WEDGE ANCHORS OR ADHESIVE ANCHORS MAY BE USED.
 2. MIN. EMBEDMENT DEPTH TO BE 4".
 3. ANCHORS TO BE SPACED NO MORE THAN 6" FROM POSTS.
 4. ALL ANCHORS TO BE A307 EQUIVALENT OR BETTER.

TABLE 11-B.2: CONC. STRIP SCHEDULE

WIND SPEED (MPH)	MIN. SIZE REQD.
90 TO 110	12" X 12"
120 TO 130	18" X 12"
140 TO 150	26" X 12" 21" X 15" 18" X 18"

- NOTES:
1. WIDTH AND DEPTH DIMENSIONS CAN BE INTERCHANGED.



CONCRETE STRIP FOUNDATION DETAIL
SCALE: NTS

CONCRETE STRIP FOUNDATION NOTES:

1. DESIGNS SHOWN ON THIS SHEET ARE FOR CONCRETE STRIP FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU D CAN BE USED.
2. CONCRETE ANCHORS SHALL BE LOCATED NEXT TO EVERY POST AND ON EITHER SIDE OF OPENINGS. TWO ANCHORS SHALL BE INSTALLED AT CORNER OF ENCLOSED BUILDINGS WITH END WALLS - ONE ON EACH BASE RAIL.
3. DEPTH OF CONCRETE STRIP FOOTING SHALL BE GREATER THAN FROST DEPTH SPECIFIED PER LOCAL CODE.
4. ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.
5. CONCRETE STRENGTH TO BE A MIN. OF 2500 PSI @ 28 DAYS.

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LOCATION: STATE OF NORTH CAROLINA
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SHEET TITLE:
FOUNDATION OPTION 2:
CONCRETE STRIP
SHEET NO.: 11-B / 11
DRAWN BY: DATE: 6/29/15
CHECKED BY: DATE: 6/29/15

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DRAWING INFORMATION

PROJECT: 18'-0" WIDE BUILDINGS

LOCATION: STATE OF NORTH CAROLINA

PROJECT NO.: 114-15-0686

SHEET TITLE:

**FOUNDATION OPTION 4:
SOIL ANCHORS**

SHEET NO.: 11-D / 11

DRAWN BY: IZM DATE: 6/29/15

CHECKED BY: OAA DATE: 6/29/15

LEGAL INFORMATION

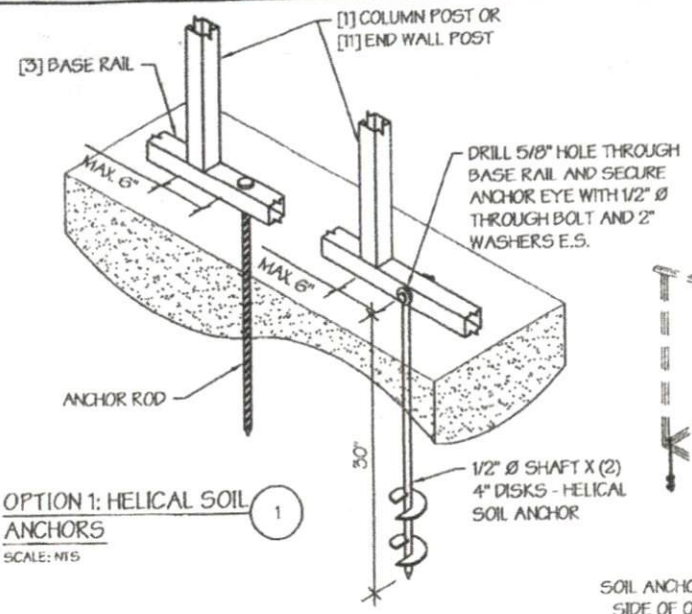
ANY DUPLICATION OF THIS DRAWING IN WHOLE OR PART IS STRICTLY FORBIDDEN. ANYONE DOING SO WILL BE PROSECUTED UNDER THE FULL EXTENT OF THE LAW. DRAWINGS VALID UP TO 1 YEAR FROM DATE OF ISSUE.

SEAL:

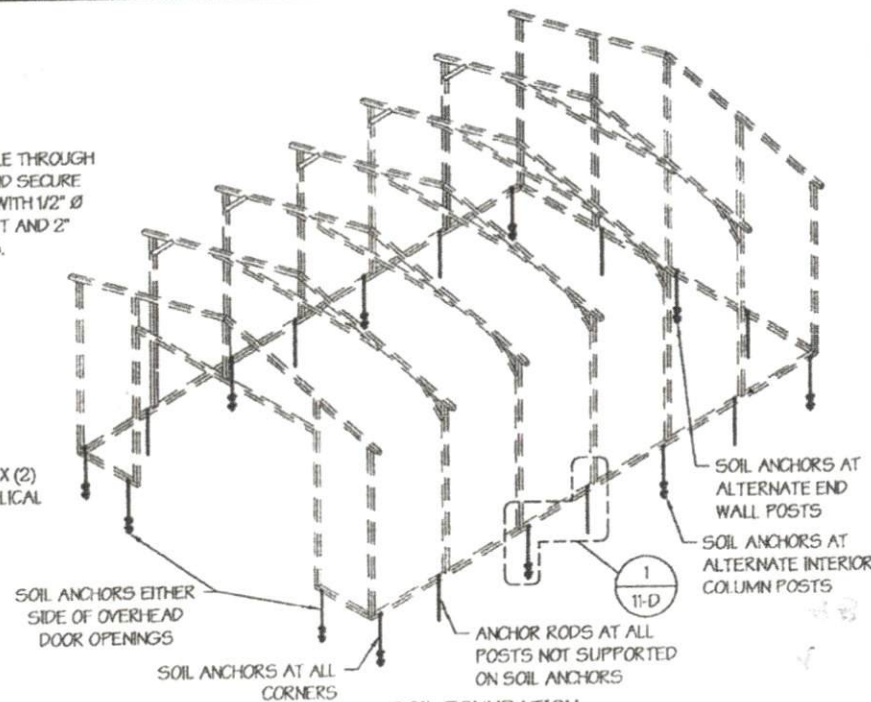


DATE EXPIRES: **06/29/2015**

DATE SIGNED: **JUN 29 2015**



OPTION 1: HELICAL SOIL ANCHORS
SCALE: NTS



SOIL FOUNDATION
SCALE: NTS

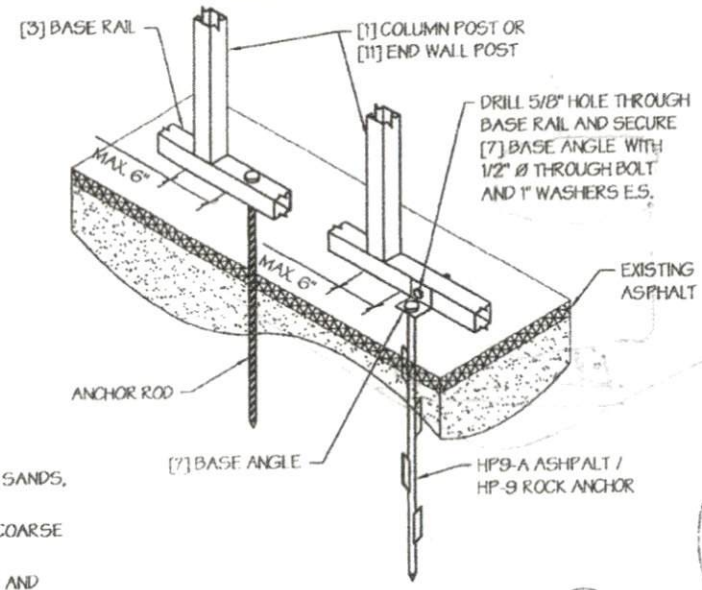
SOIL FOUNDATION NOTES:

- DESIGNS SHOWN ON THIS SHEET ARE FOR SOIL ANCHOR FOUNDATION. ANY OF THE FOUNDATIONS SHOWN ON SHEETS 11-A THRU D CAN BE USED.
- SOIL ANCHORS (HELICAL OR ROCK/ASPHALT) SHALL BE LOCATED AT ALL 4 CORNERS, ON EACH SIDE OF OVERHEAD DOOR OPENINGS AND ON ALTERNATE INTERIOR COLUMN POSTS AND END WALLS POSTS.
- HELICAL ANCHORS ARE TO BE USED ONLY IF THE DRIVING TORQUE INTO THE GROUND IS 150 FT-LBS OR GREATER. MANUFACTURER IS NOT RESPONSIBLE FOR SOIL QUALITY AT SITE.
- HELICAL ANCHORS CAN ONLY BE USED FOR CLASS 2, 3 & 4 SOILS (SEE SOIL CLASSIFICATIONS THIS PAGE).
- ALL POSTS WITH NO ANCHORS ADJACENT SHALL BE ANCHORED TO THE GROUND WITH A 1/2" X 30" LG. ROD. RODS WILL HAVE A WELDED NUT AT THE TOP AND ONE COAT OF RUST PROOF PRIMER.
- ASSUMED SOIL BEARING CAPACITY IS TO BE A MIN. OF 1500 PSF.

SOIL CLASSIFICATIONS:

SOIL CLASS	DESCRIPTION
2	SANDY GRAVEL AND GRAVEL, VERY THIN DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL/COBBLIES, PRELOADED SILTS, CLAYS AND CORAL.
3	SAND, SILTY SAND, CLAYEY SAND, SILTY GRAVEL, MEDIUM DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILT AND SANDY CLAYS.
4	LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS AND ALLUVIAL FILLS.

"FROM HUD "MODEL MANUFACTURED HOME INSTALLATION STANDARDS"



OPTION 2: ROCK / ASPHALT ANCHORS
SCALE: NTS