

MARK	DESCRIPTION	DATE	BY
A	FOR APPROVAL	01/11/2016	RMC



CIVIL STRUCTURAL CARUBBA ENGINEERING
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 Metairie, LA 70002
 Phone: 504.888.1490
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ST. BERNARD PROJECT
NEW CONSTRUCTION
3044 SULLEN PLACE
SITE PLAN, FLOOR PLAN, AND NOTES

LOUISIANA

NEW ORLEANS

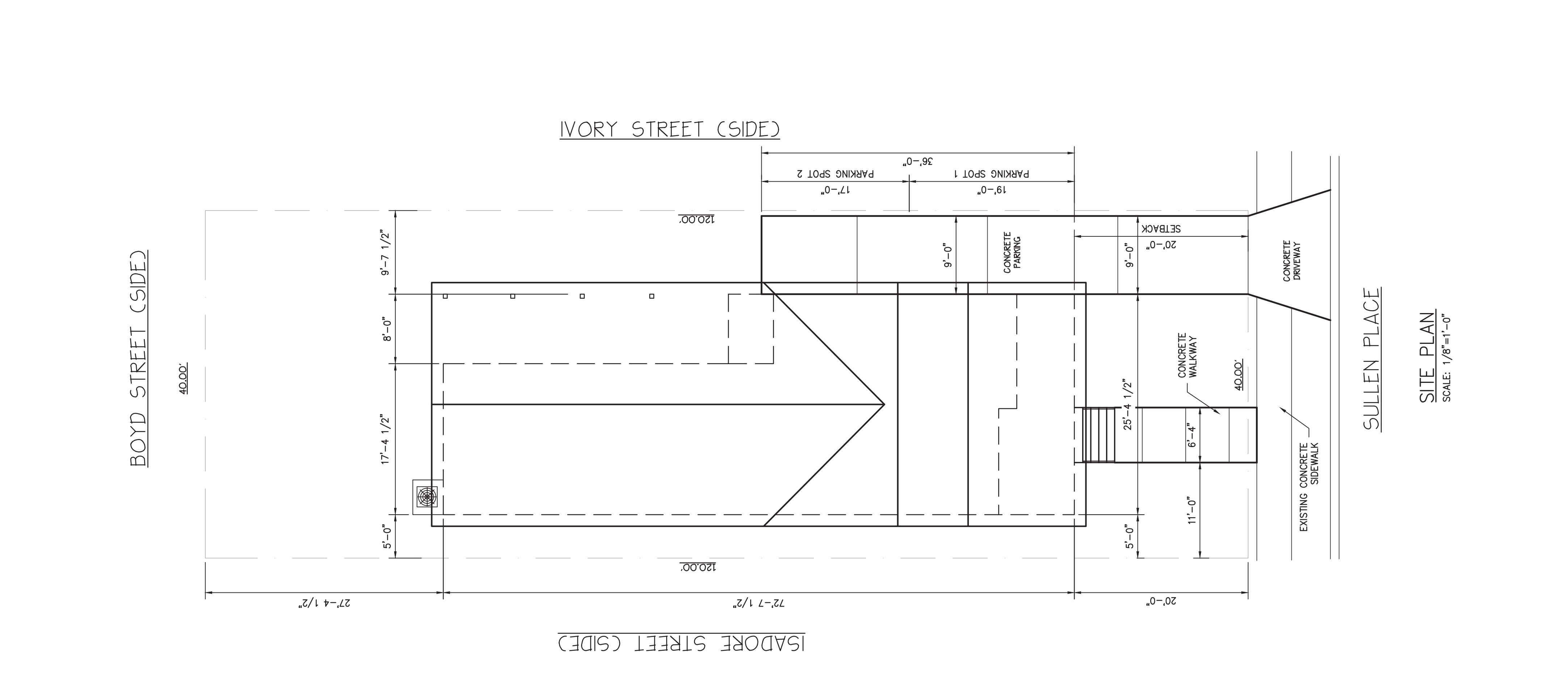
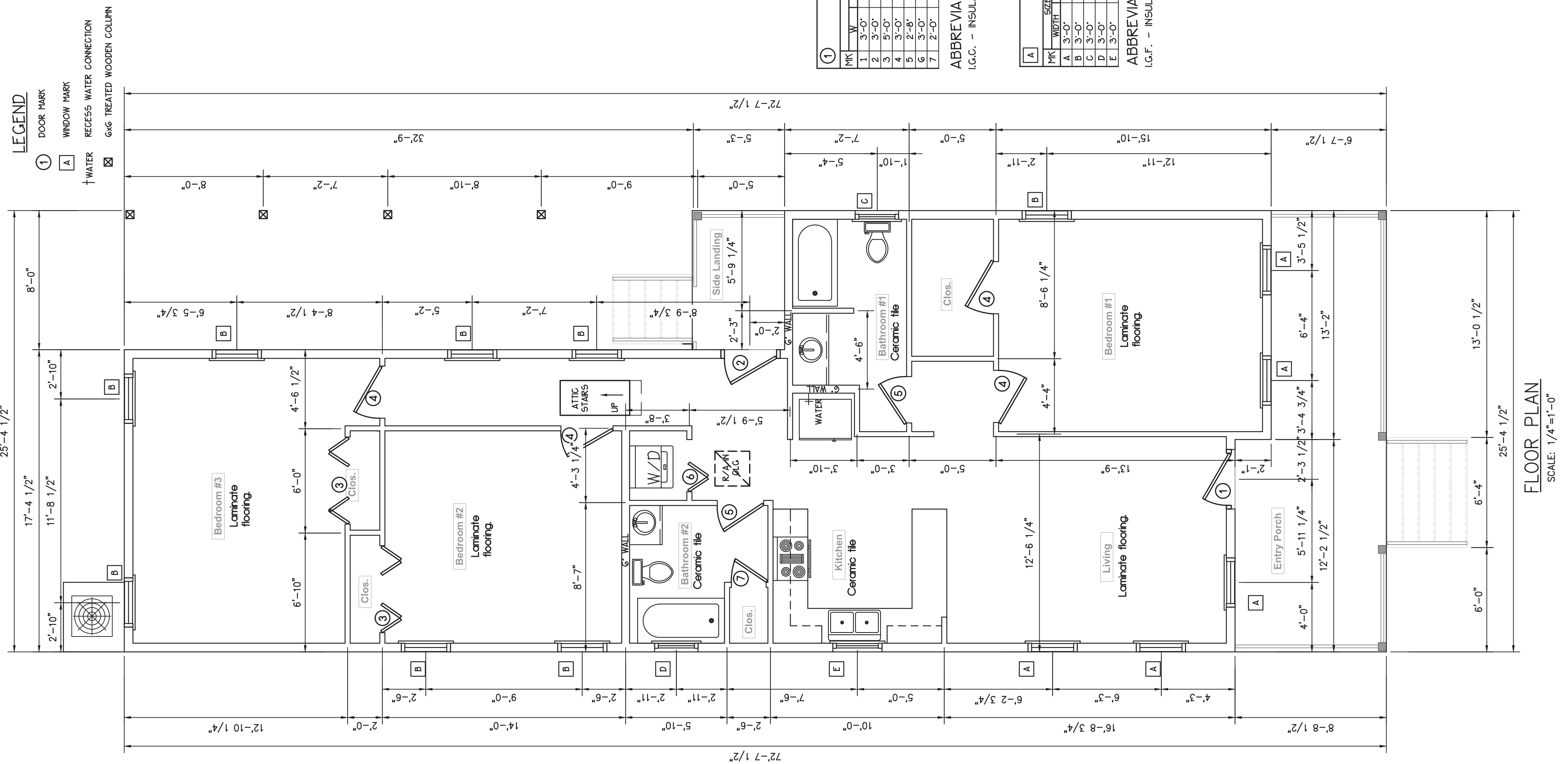
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CHECKED	RMC
DATE	1/11/2016
CEI PROJECT NO.	2015-127
SHEET	A.10

NOTES

- CARUBBA ENGINEERING ADHERES TO THE DESIGN CRITERIA OUTLINED IN THE 2012 INTERNATIONAL RESIDENTIAL CODE FOR ONE AND TWO FAMILY DWELLINGS AS REQUIRED FOR AREAS WHERE BASIC WIND SPEEDS EQUAL OR EXCEED 130 MPH. AS FOR DESIGN CRITERIA IN R3012.1.1 WILL BE APPLIED TO THE DESIGN CRITERIA FOR AREAS WHERE BASIC WIND SPEEDS ARE LESS THAN 130 MPH. THE DESIGN CRITERIA FOR AREAS WHERE BASIC WIND SPEEDS ARE LESS THAN 130 MPH WILL FOLLOW THE ASCE-7 CRITERIA, DESIGNED BY ENGINEER (SEE DETAILS SHEET). NOT ALL SPECIFICATIONS ARE EXPRESSLY NOTED ON THE PLANS; THEREFORE, IT IS THE RESPONSIBILITY OF INDIVIDUAL BUILDERS AND/OR CONTRACTORS TO COMPLY WITH THE FOLLOWING CODES.
- R3012.1.2 INTERNAL PRESSURE. WINDOWS IN BUILDINGS LOCATED IN WINDBORNE DEBRIS REGIONS SHALL HAVE GLAZED OPENINGS PROTECTED FROM WINDBORNE DEBRIS OR THE BUILDING SHALL BE CONSIDERED AS A WINDBORNE DEBRIS RESISTANT BUILDING. THE DESIGN CRITERIA FOR WINDBORNE DEBRIS RESISTANT BUILDINGS SHALL MEET THE REQUIREMENTS OF THE LARGE MESSLE TEST OF ASTM E 1986 AND ASTM E 1886 REFERENCE THEREIN.
- EXCEPTION: WOOD STRUCTURAL PANELS WITH A MINIMUM THICKNESS OF 7/16 IN. AND A MAXIMUM SPAN OF 8 FEET SHALL BE PERMITTED FOR OPENING PROTECTION IN ONE AND TWO-STORY BUILDINGS. PANELS SHALL BE PRECUT TO COVER THE GLAZED OPENINGS WITH ATTACHMENTS AND FASTENERS PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PANELS SHALL BE PRECUT TO COVER THE GLAZED OPENINGS WITH ATTACHMENTS AND FASTENERS PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PANELS SHALL BE PRECUT TO COVER THE GLAZED OPENINGS WITH ATTACHMENTS AND FASTENERS PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PANELS SHALL BE PRECUT TO COVER THE GLAZED OPENINGS WITH ATTACHMENTS AND FASTENERS PROVIDED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
1. LIGHT VENTILATION AND HEATING - BATHROOMS, BEDROOMS, KITCHENS, OR SMALL ROOMS SHALL BE PROVIDED WITH A WINDOW NOT LESS THAN 3 SQUARE FEET WITH ONE-HALF OF WHICH MUST BE OPERABLE. WINDOW SHALL NOT BE REQUIRED IF MECHANICAL VENTILATION IS PROVIDED. EXHAUSTS SHALL BE VENTED DIRECTLY TO THE OUTSIDE.
2. AC RETURN AIR CHASE SHALL BE CONSTRUCTED OF ONE-HOUR RATED CONSTRUCTION.
3. R310.1 EMERGENCY ESCAPE AND RESCUE REQUIRED. EVERY SLEEPING ROOM SHALL HAVE AT LEAST ONE OPERABLE EMERGENCY ESCAPE AND RESCUE WINDOW OR EXTERIOR DOOR MEANS OF ESCAPE AND RESCUE. WHERE OPENINGS ARE PROVIDED AS A MEANS OF ESCAPE AND RESCUE THEY SHALL HAVE A SILL HEIGHT OF NOT MORE THAN 44 INCHES ABOVE THE FLOOR.
- R310.1.1 EGRESS OR RESCUE WINDOWS FROM SLEEPING ROOMS MUST HAVE A NET CLEAR OPENING OF 57 SQUARE FEET.
- R310.1.2 THE MINIMUM NET CLEAR OPENING HEIGHT SHALL BE 24 INCHES. THE MINIMUM NET CLEAR OPENING WIDTH SHALL BE 20 INCHES.
4. TERRACE PROTECTION WILL BE PROVIDED AS REQUIRED BY SEC. R318 RC 2012 ED

Plan #13

Provided for use by builders as a starting point and applicants to see various housing options and have engineering to receive bids. Applicants are not limited to these options. They are provided as a courtesy. Grant provided reconstructions are limited to the size of the damaged structure or smaller. Grant value for the FEMA programs is reduced by any funding reasonably available from other sources.



DOOR SCHEDULE

MARK	SIZE	TYPE	FUNCTION	STYLE	LITES	GLASS	REMARKS
1	3'-0" x 6'-8"	WOOD SC	SWING	ATRIUM	1 LITE	I.G.C.	FRONT DOOR VERIFY STYLE WITH OWNER
2	3'-0" x 6'-8"	ALUM.	SWING	ATRIUM	1 LITE	I.G.C.	
3	5'-0" x 6'-8"	MASONITE	BI-FOLD	PANEL	NONE	NONE	
4	3'-0" x 6'-8"	MASONITE	SWING	PANEL	NONE	NONE	
5	2'-8" x 6'-8"	MASONITE	SWING	PANEL	NONE	NONE	
6	3'-0" x 6'-8"	MASONITE	BI-FOLD	PANEL	NONE	NONE	
7	2'-0" x 6'-8"	MASONITE	SWING	PANEL	NONE	NONE	

ABBREVIATIONS:
 I.G.C. - INSULATED GLASS CLEAR
 I.C.F. - INSULATED GLASS FROSTED

NOTES:
 1. THE ABOVE SIZES ARE NOMINAL. VERIFY WITH DOOR SUPPLIER THE ACTUAL ROUGH IN DIMENSIONS.
 2. DOOR MATERIAL IS FOR BID ONLY. FINAL APPROVAL BY OWNER.

WINDOW SCHEDULE

MARK	WIDTH	HEIGHT	LITES	FUNCTION	MATERIAL	FINISH	GLAZING	SCREEN	REMARKS
A	3'-0"	6'-0"	1	SINGLE HING	WNTL	WHITE	I.G.C.	HALF	
B	3'-0"	5'-0"	1	SINGLE HING	WNTL	WHITE	I.G.C.	HALF	TEMPERED
C	3'-0"	5'-0"	1	SINGLE HING	WNTL	WHITE	I.G.C.	HALF	TEMPERED
D	3'-0"	5'-0"	1	SINGLE HING	WNTL	WHITE	I.G.C.	HALF	
E	3'-0"	3'-0"	1	SINGLE HING	WNTL	WHITE	I.G.C.	HALF	

ABBREVIATIONS:
 I.G.C. - INSULATED GLASS CLEAR
 I.C.F. - INSULATED GLASS FROSTED

NOTES:
 1. THE ABOVE SIZES ARE NOMINAL. VERIFY WITH WINDOW SUPPLIER THE ACTUAL ROUGH IN DIMENSIONS.
 2. WINDOW MANUFACTURE TO VERIFY TEMPERED WINDOWS
 3. WINDOW MATERIAL IS FOR BID ONLY. FINAL APPROVAL BY OWNER.

THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION. I HAVE RESEARCHED CHAPTER 8 AND THE LOUISIANA STATE UNIFORM CONSTRUCTION CODE AND TO THE BEST OF MY KNOWLEDGE AND BELIEF THESE DRAWINGS ARE IN ACCORDANCE WITH THE CONTENTS OF THESE PLANS. I WILL NOT BE ADMINISTERING THE WORK.

ROY M. CARUBBA, P.E.
 REG. NO.: 24653

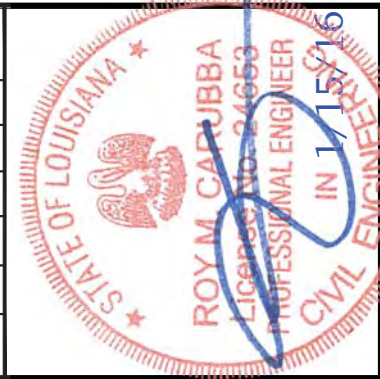


SQUARE FOOTAGE	
LIVING	1,331
PORCH	179
SIDE LANDING	187
TOTAL	1,697 SQ. FT.

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

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

MARK	DESCRIPTION	DATE	BY
A	FOR APPROVAL	01/11/2016	RMC



ROYAL CARUBBA
PROFESSIONAL ENGINEER
IN MECHANICAL
CIVIL ENGINEERING

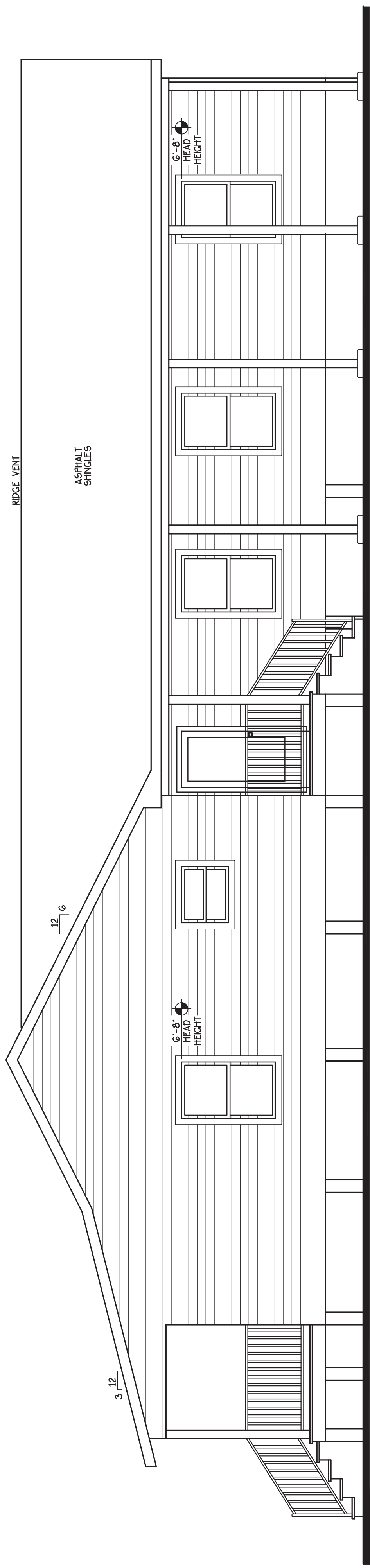
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LOUISIANA

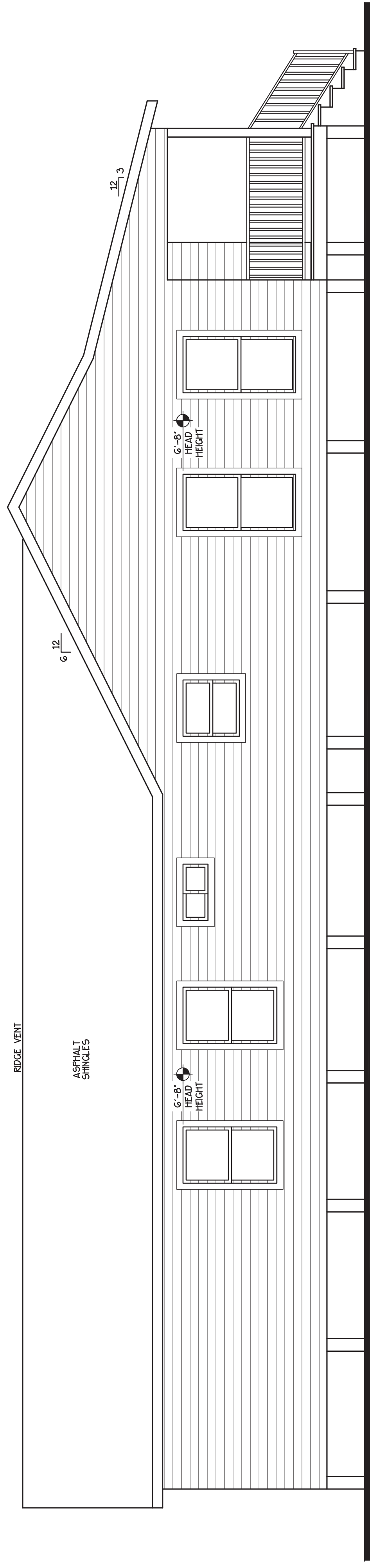
ST. BERNARD PROJECT
NEW CONSTRUCTION
3044 SULLEN PLACE
EXTERIOR ELEVATIONS

NEW ORLEANS

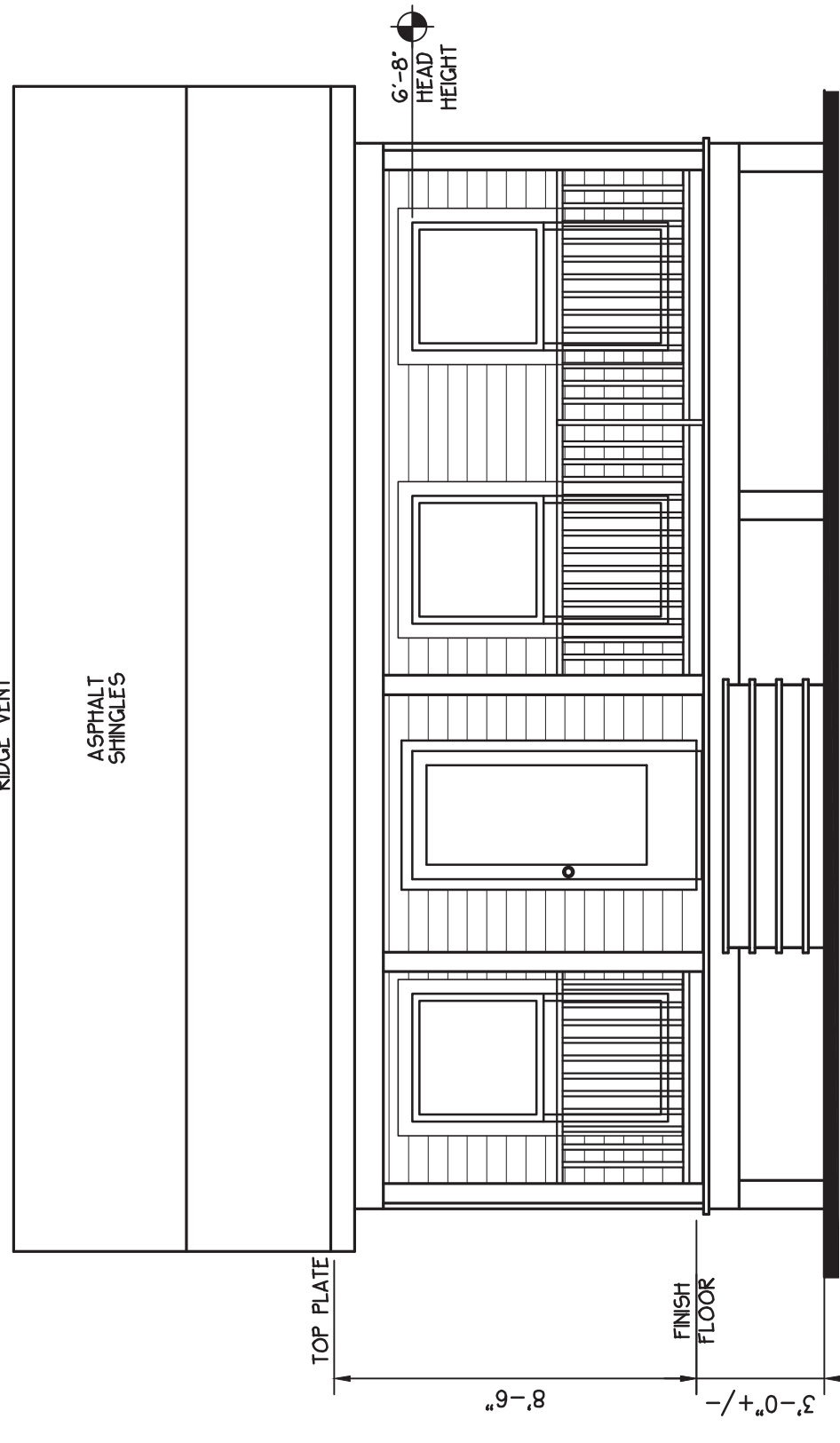
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CHECKED	RMC
DATE	1/11/2016
CEI PROJECT NO.	2015-127
SHEET	A2.0



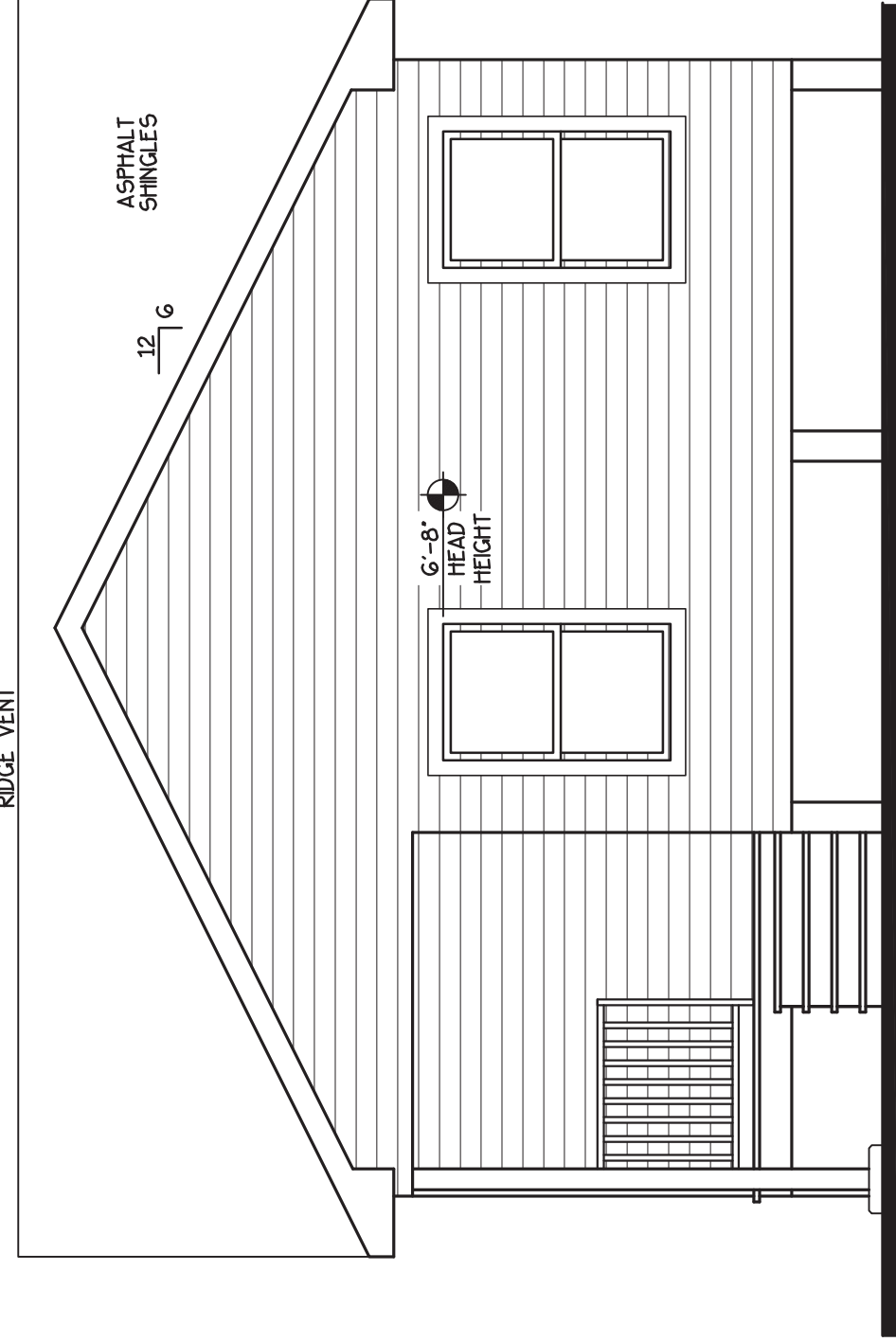
SOUTH ELEVATION
SCALE: 1/4"=1'-0"



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



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



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

BY	DATE	DESCRIPTION	MARK
	01/11/2016	FOR APPROVAL	A



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LOUISIANA

ST. BERNARD PROJECT
NEW CONSTRUCTION
3044 SULLEN PLACE
LIGHTING AND POWER PLAN

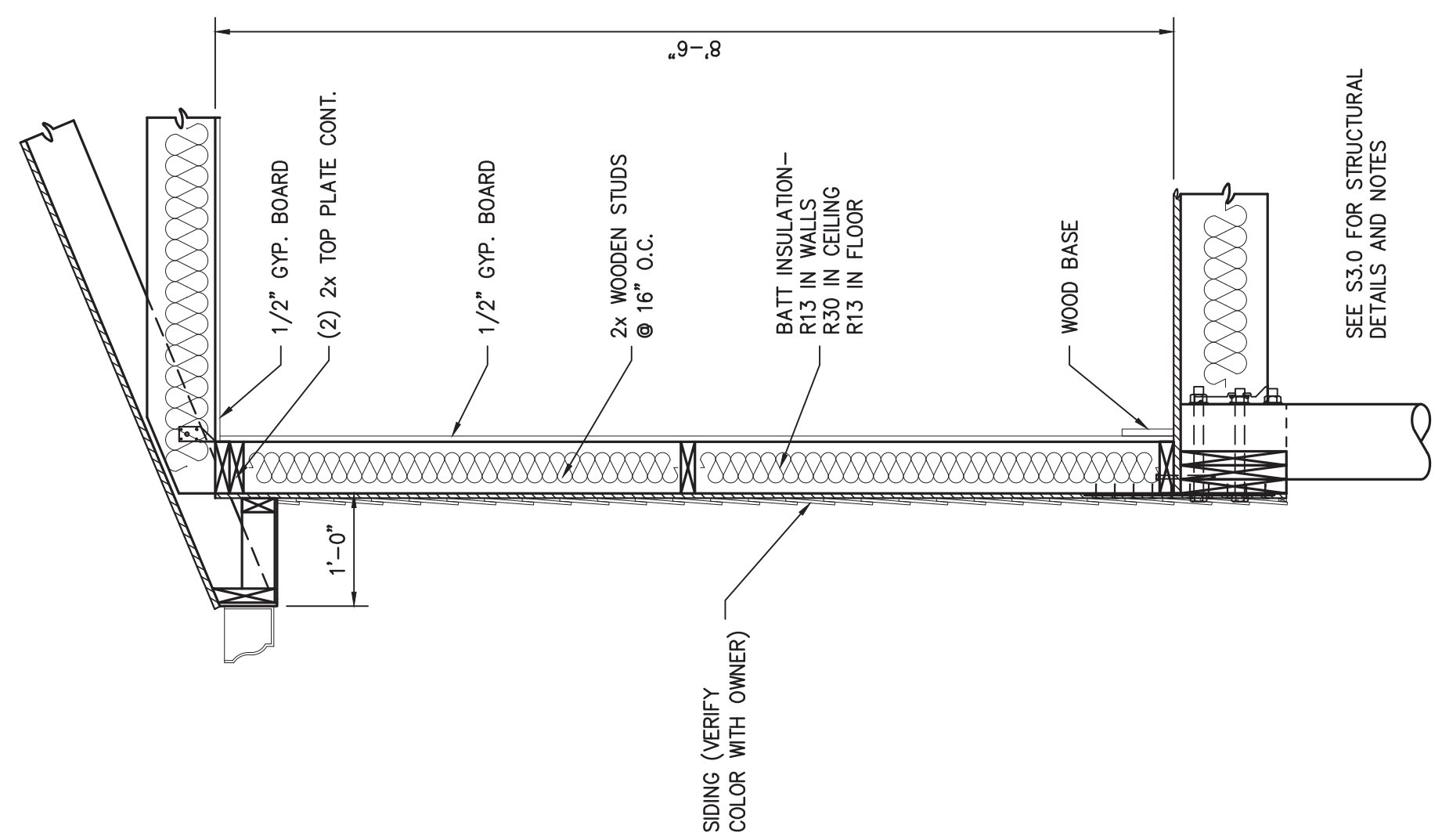
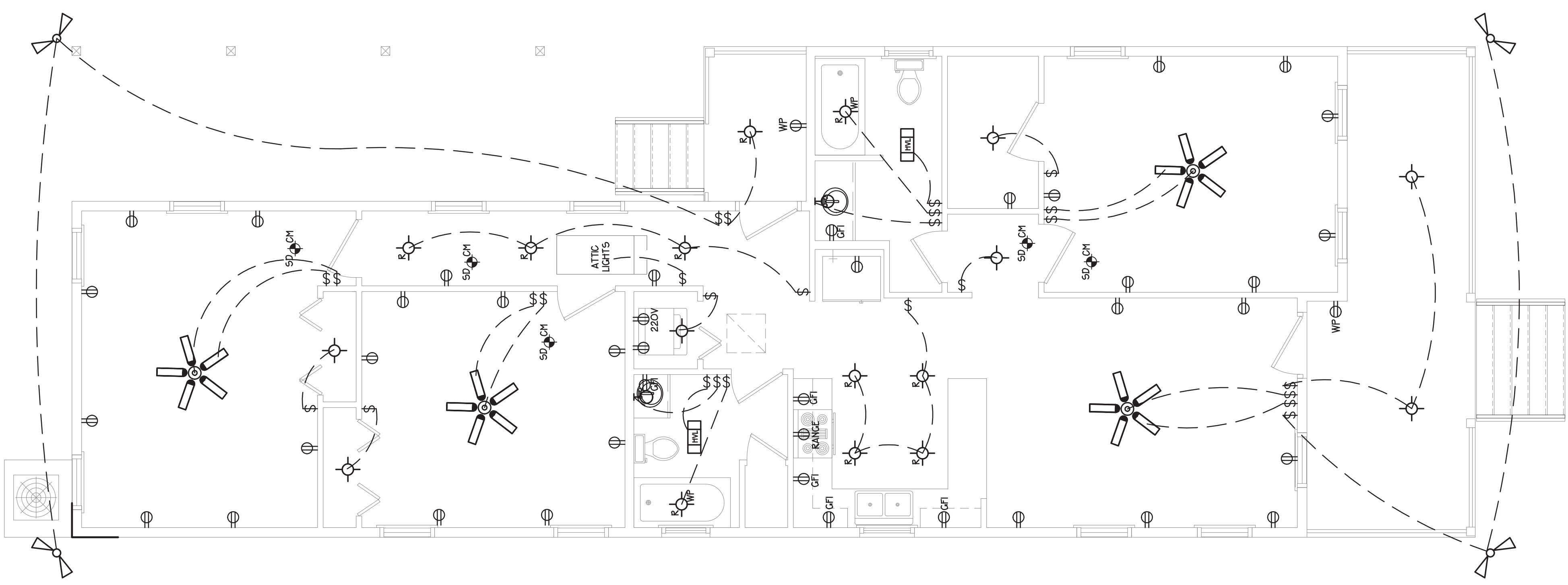
NEW ORLEANS
DRAWN D/M
CHECKED R/M/C
DATE 1/11/2016
CEI PROJECT NO. 2015-127
SHEET A3.0



LEGEND	
SYMBOL	DESCRIPTION
\$	SINGLE POLE LIGHT SWITCH (SPST) CISA, 120V
\$P5	SINGLE POLE DOOR LIGHT SWITCH (SP5TD) CISA, 120V
\$PM	SINGLE POLE DIMMER LIGHT SWITCH (SP5TD) CISA, 120V
\$3	3-WAY LIGHT SWITCH (SP3TD) CISA, 120V
⊖	SURFACE MOUNT LIGHT FIXTURE (VERIFY TYPE AND LOCATION)
⊖	RECESS LIGHT FIXTURE (VERIFY TYPE AND LOCATION)
⊖	DUPLEX RECEPTACLE CISA, 120V
⊖P	WATER PROOF DUPLEX RECEPTACLE CISA, 120V
⊖GFI	GROUND FAULT INTERRUPT DUPLEX RECEPTACLE CISA, 120V
⊖C	UNDER COUNTER DUPLEX RECEPTACLE CISA, 120V
⊖220V	DUPLEX RECEPTACLE WITH GROUND (VERIFY A, 220V)
SD, CH	SHOCK DETECTOR-CARBON MONOXIDE DETECTOR COMBO. (SEE NOTE B - VERIFY LOCATION WITH LOCAL MUNICIPALITIES)
⊖	WALL LIGHT (VERIFY HEIGHT, LOCATION AND STYLE)
Incl.	HEATER/ VENT/ LIGHT- VERIFY STYLE
⊖	EXTERIOR FLOOD LIGHTS

ELECTRICAL NOTES

- SLEEPING AREAS SHALL BE PROTECTED BY UL-APPROVED SMOKE DETECTOR-CARBON MONOXIDE DETECTOR COMBO. THESE MUST BE WIRED TO THE 110 VOLT HOUSE CURRENT WITH BATTERY BACKUP AND MEET DESIGN CRITERIA AS REQUIRED BY UL DESIGN 268.
 - SMOKE DETECTORS SHALL BE INSTALLED NO FURTHER THAN 10 FT. FROM ANY SLEEPING ROOMS. NO CLOSER THAN 6" FROM WALL OR FROM CEILING DEPENDING ON WHERE MOUNTED.
 - SUBCONTRACTOR SHALL VERIFY LOCATION OF MAIN ALARM PANEL WITH ALARM SYSTEM.
 - ELECTRICAL CONTRACTOR SHALL ASSUME THAT THE OUTLETS, SAFETY DEVICES, ETC. SHOWN ON DRAWINGS ARE THE MINIMUM REQUIREMENTS AND SHALL PROVIDE ANY ADDITIONAL DEVICES AS MAY BE REQUIRED TO SATISFY SAID CODES AND REGULATIONS WITH OUT ADDITIONAL COST TO THE OWNER.
 - GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING ELECTRICAL SERVICE WITH THE PROVIDER AND PROVIDE CONDUIT FROM THE UTILITY POLE OR SERVICE LOCATION TO THE METER.
 - GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF THE EXISTING TELEPHONE SERVICE AND CABLE SERVICE WITH THE PROVIDERS AND PROVIDE SEPARATE CONDUITS FROM THE UTILITY POLE OR SERVICE LOCATION TO THE ELECTRICAL METER.
 - GENERAL CONTRACTOR AND ELECTRICAL CONTRACTOR SHALL INSTALL A WHOLE HOUSE SURGE PROTECTOR. VERIFY WITH OWNER.
 - CONTRACTOR TO PROVIDE APPROVED CARBON MONOXIDE DETECTORS OUTSIDE EACH SEPARATE SLEEPING AREA FOR ANY DWELLING WITH AN ATTACHED GARAGE OR FUEL-FIRED APPLIANCES AS PER SECTION 903.5 OF THE IRC 2012 ED.
- NEC210.8 - GROUND-FALL CIRCUIT-INTERRUPTER PROTECTION.**
- (1) DWELLING UNITS. ALL 120-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE RECEPTACLES INSTALLED IN THE LOCATIONS SPECIFIED IN (2) THROUGH (7) SHALL HAVE GROUND-FALL CIRCUIT INTERRUPTER PROTECTION FOR PERSONNEL.
 - (2) BATHROOMS AND ACCESSORY BUILDINGS THAT HAVE A FLOOR LOCATED AT OR BELOW GRADE NOT INTENDED AS HABITABLE ROOMS AND LIMITED TO STORAGE AREAS, WORK AREAS, OR AREAS OF SIMILAR USE.
 - (3) CRAWL SPACES, AT OR BELOW GRADE LEVEL.
 - (4) AREAS OF BASEMENT NOT INTENDED AS HABITABLE ROOMS AND LIMITED TO STORAGE AREAS, WORK AREAS OR SIMILAR USES.
 - (5) SPILAR DRUMS WHERE RECEPTACLES ARE INSTALLED TO SERVE COUNTERTOP SURFACES.
 - (6) SINKS WHERE THE RECEPTACLES ARE INSTALLED WITHIN 6 FEET OF THE OUTSIDE EDGE OF THE SINK.
 - (7) BOATHOUSES.
- NEC210.12 ARC-FALL CIRCUIT-INTERRUPTER PROTECTION**
- (1) DEFINITION: ARC-FALL CIRCUIT-INTERRUPTER. AN ARC-FALL CIRCUIT INTERRUPTER IS A DEVICE INTENDED TO PROVIDE PROTECTION FROM THE EFFECTS OF ARC FAILTS BY RECOGNIZING CHARACTERISTICS UNLIKE TO ARCING AND BY DETECTING AND DE-ENERGIZING THE CIRCUIT WHEN AN ARC FAULT IS DETECTED IN THE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNITS AS SPECIFIED IN (2) THROUGH (4).
- (2) OCCUPANCY: EACH OCCUPANT SHALL HAVE READY ACCESS TO ALL OVERCURRENT DEVICES PROTECTING THE CONDUCTORS SUPPLYING THAT OCCUPANCY.
- (3) NOT EXPOSED TO PHYSICAL DAMAGE. OVERCURRENT DEVICES SHALL BE LOCATED WHERE THEY WILL NOT BE EXPOSED TO PHYSICAL DAMAGE.
- (4) EASILY IDENTIFIABLE MATERIAL. OVERCURRENT DEVICES SHALL NOT BE LOCATED IN THE VICINITY OF EASILY IDENTIFIABLE MATERIAL.
- NEC240.24 LOCATION IN OR ON PREMISES**
- (1) ACCESSIBILITY. OVERCURRENT DEVICES SHALL BE READILY ACCESSIBLE AND SHALL BE INSTALLED SO THAT THE CENTER OF THE GRP OF THE OPERATING HANDLE OF THE SWITCH OR CIRCUIT BREAKER, WHEN IN ITS HIGHEST POSITION, IS NOT MORE THAN 6 FEET ABOVE THE FINISHED FLOOR SURFACE.
- (2) OCCUPANCY: EACH OCCUPANT SHALL HAVE READY ACCESS TO ALL OVERCURRENT DEVICES PROTECTING THE CONDUCTORS SUPPLYING THAT OCCUPANCY.
- (3) NOT EXPOSED TO PHYSICAL DAMAGE. OVERCURRENT DEVICES SHALL BE LOCATED WHERE THEY WILL NOT BE EXPOSED TO PHYSICAL DAMAGE.
- (4) EASILY IDENTIFIABLE MATERIAL. OVERCURRENT DEVICES SHALL NOT BE LOCATED IN THE VICINITY OF EASILY IDENTIFIABLE MATERIAL.
- (5) NOT LOCATED IN BATHROOMS. OVERCURRENT DEVICES, OTHER THAN SUPPLEMENTARY OVERCURRENT PROTECTION, SHALL NOT BE LOCATED IN BATHROOMS.



TYPICAL WALL SECTION
 SCALE: 3/4"=1'-0"

LIGHTING AND POWER PLAN
 SCALE: 1/4"=1'-0"

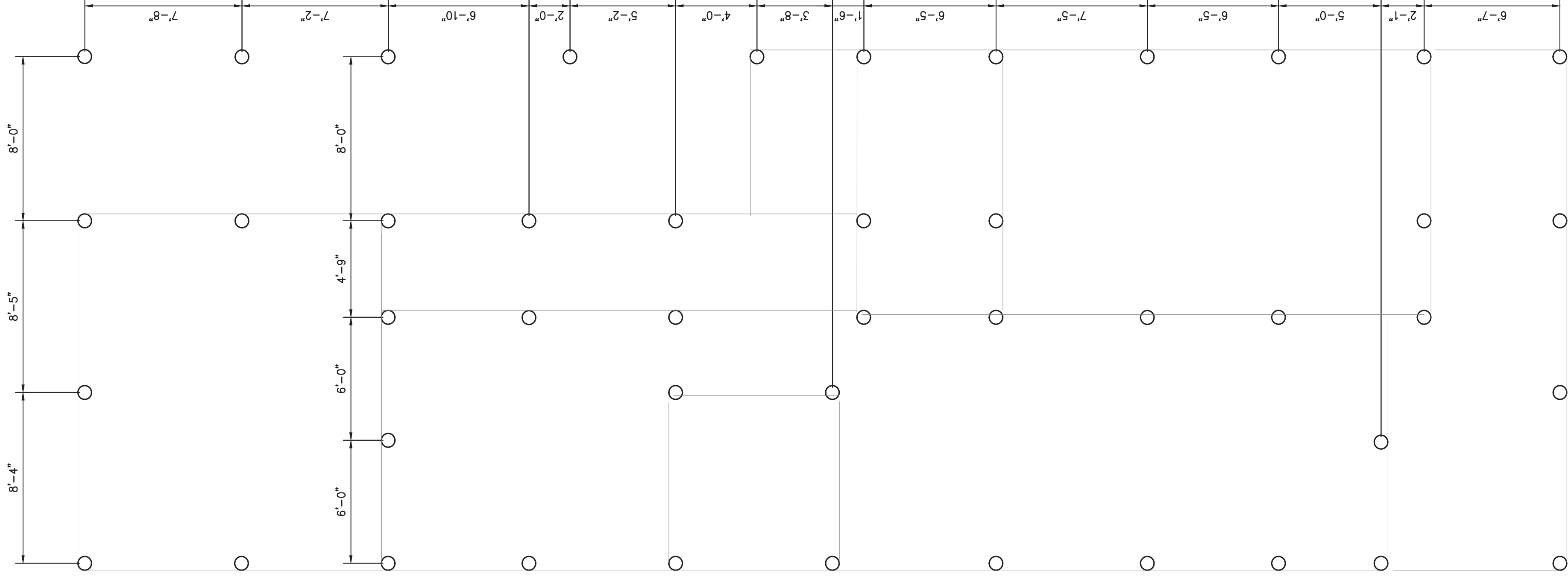
NOTES

GENERAL

1. THIS PLAN IS TO BE USED ONLY FOR THE ADDRESS INDICATED ON THE TITLE BLOCK.
2. BEAM DIMENSIONS SHOWN ARE MINIMUM REQUIRED AND MAY NOT BE REDUCED, NOR ENLARGED WITHOUT APPROVAL OF THE ENGINEER.
3. NO FIELD OBSERVATION IS PROVIDED UNDER THIS SEAL UNLESS OTHERWISE NOTED IN WRITING ON THIS PLAN. SLAB INSPECTIONS AFTER CONSTRUCTION WILL BE BILLED AT HOURLY RATES IF REQUESTED.
4. TOP OF FINISHED FLOOR IS FOR REFERENCE ONLY. CONTRACTOR SHALL ENGAGE A PROFESSIONAL LAND SURVEYOR TO ESTABLISH REQUIRED TOP OF FINISH FLOOR LOCATION PRIOR TO COMMENCEMENT OF WORK.

PILES

1. PILE CAPACITY SHOWN IN ACCORDANCE WITH CITY OF NEW ORLEANS PILE LOAD CAPACITY MAP SECTION 15.03.01.01.
2. ALL PILES TREATED PILE 35' LONG - DRIVEN TO REFUSAL (12 BLOWS PER FOOT FOR TWO CONSECUTIVE FEET USING A 7,500 FT. LB. DROP HAMMER.)
8" BUTT, 6" TIP
6 TON DESIGN LOAD



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



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LOUISIANA

ST. BERNARD PROJECT
NEW CONSTRUCTION
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FOUNDATION PLAN

NEW ORLEANS

DRAWN PR
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DATE 1/12/2016
CEI PROJECT NO. 2015-12T
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ROOF FRAMING LEGEND
 ROOF RAFTERS - 2x8 @ 24" O.C. (U.N.O. ON PLAN)
 RIDGE BEAM - 2x10
 VALLEY - 2x10
 HRP - 2x10

LEGEND
 SHEAR WALL

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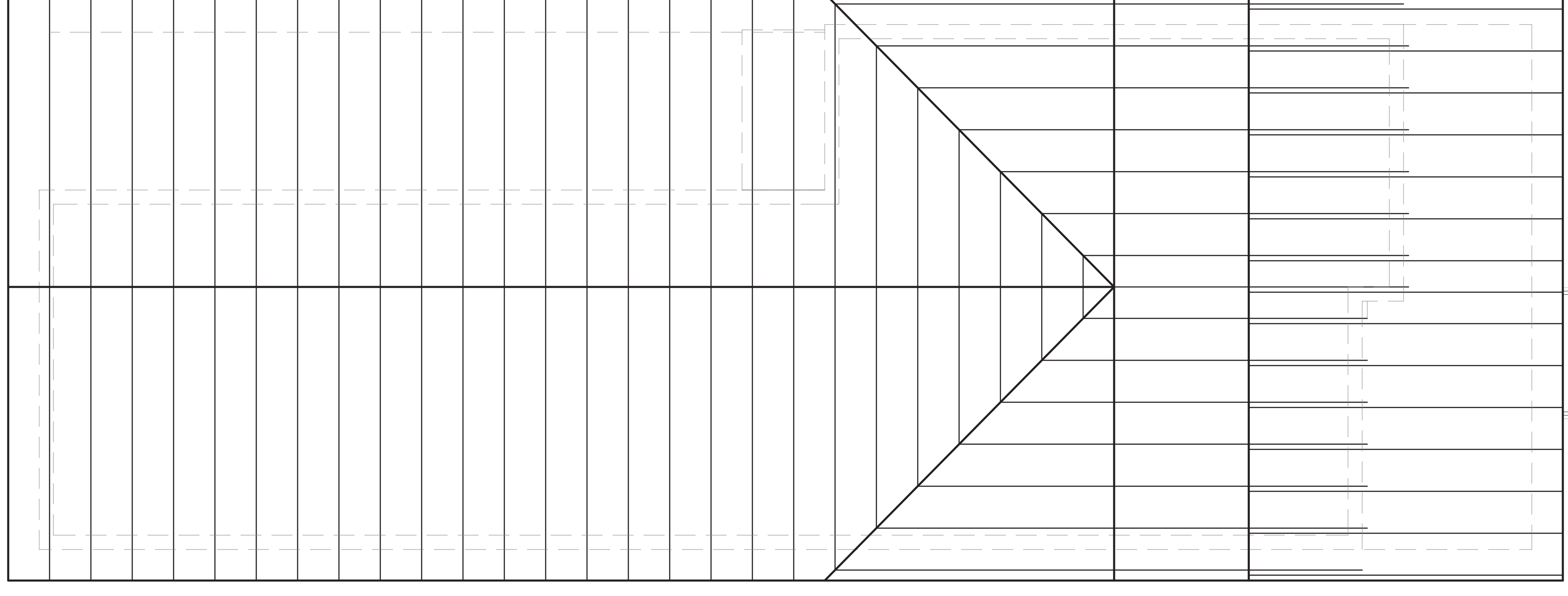
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LOUISIANA

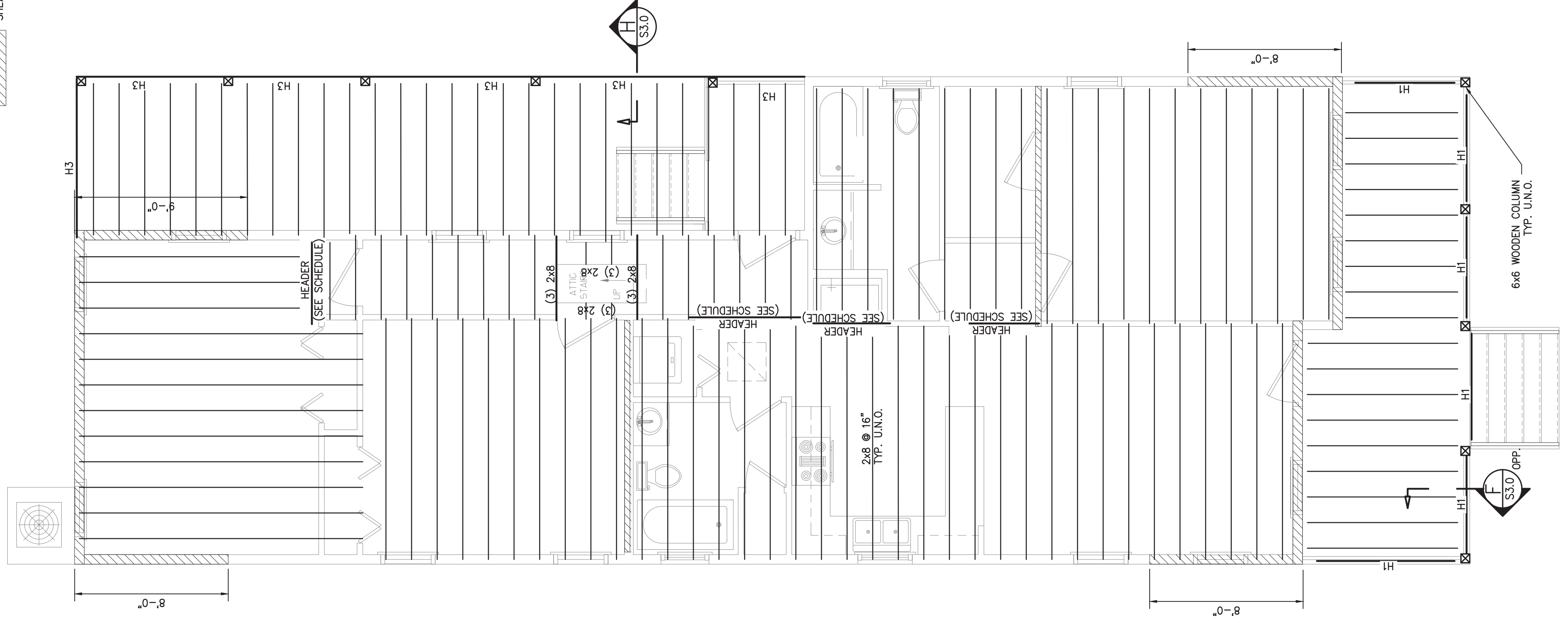
ST. BERNARD PROJECT
NEW CONSTRUCTION
3044 SULLEN PLACE
FRAMING PLANS

NEW ORLEANS

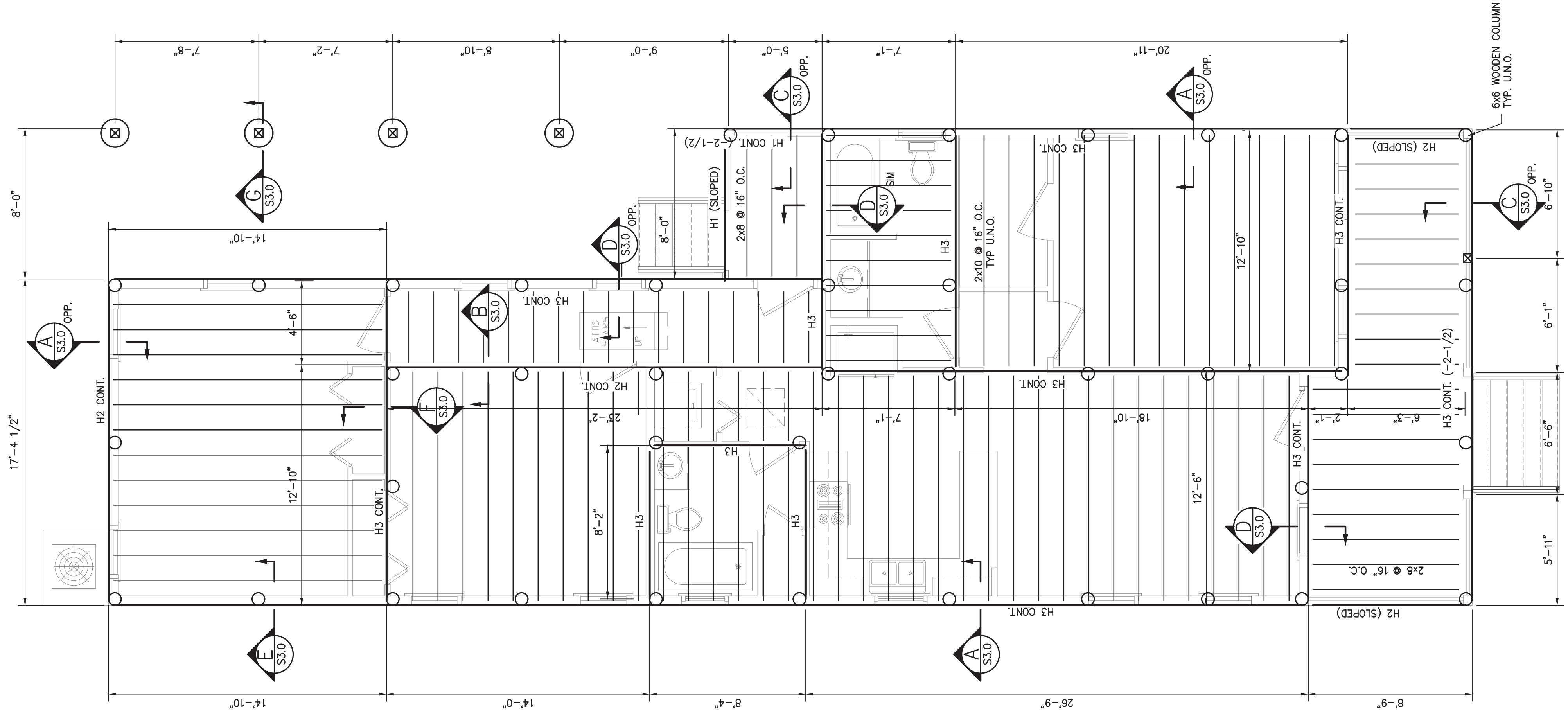
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DATE	1/12/2016
CEI PROJECT NO.	2015-12T
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ROOF FRAMING PLAN
 SCALE: 1/4"=1'-0"



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

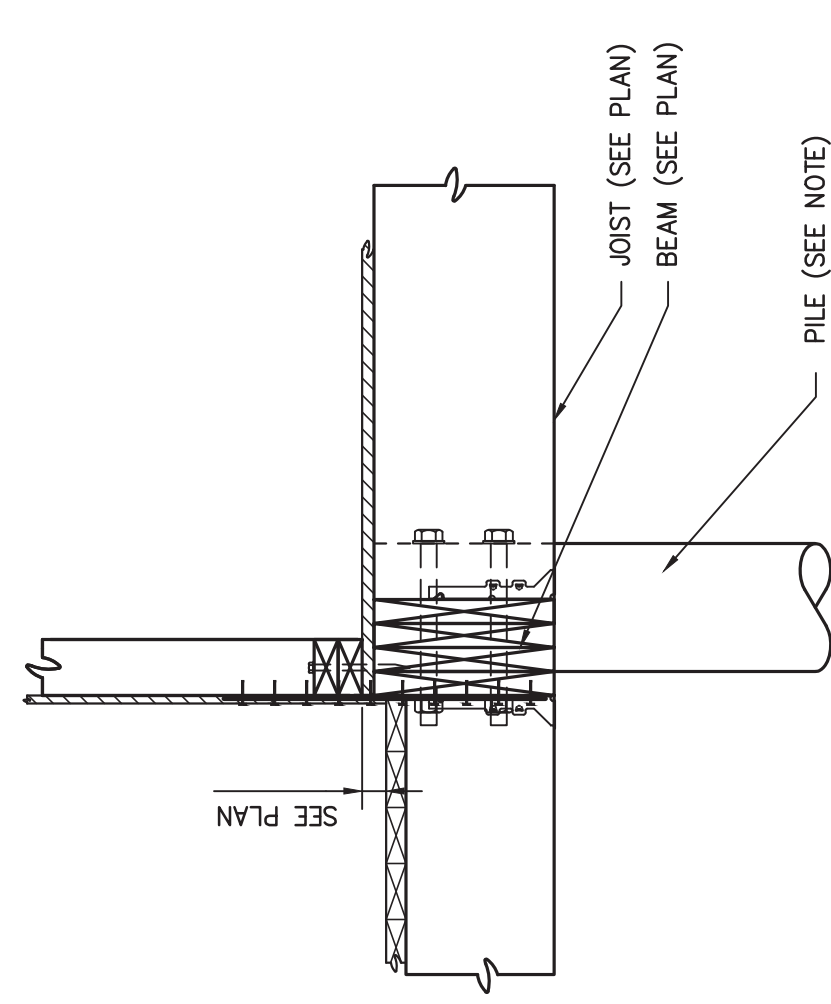


FIRST FLOOR FRAMING PLAN
 SCALE: 1/4"=1'-0"

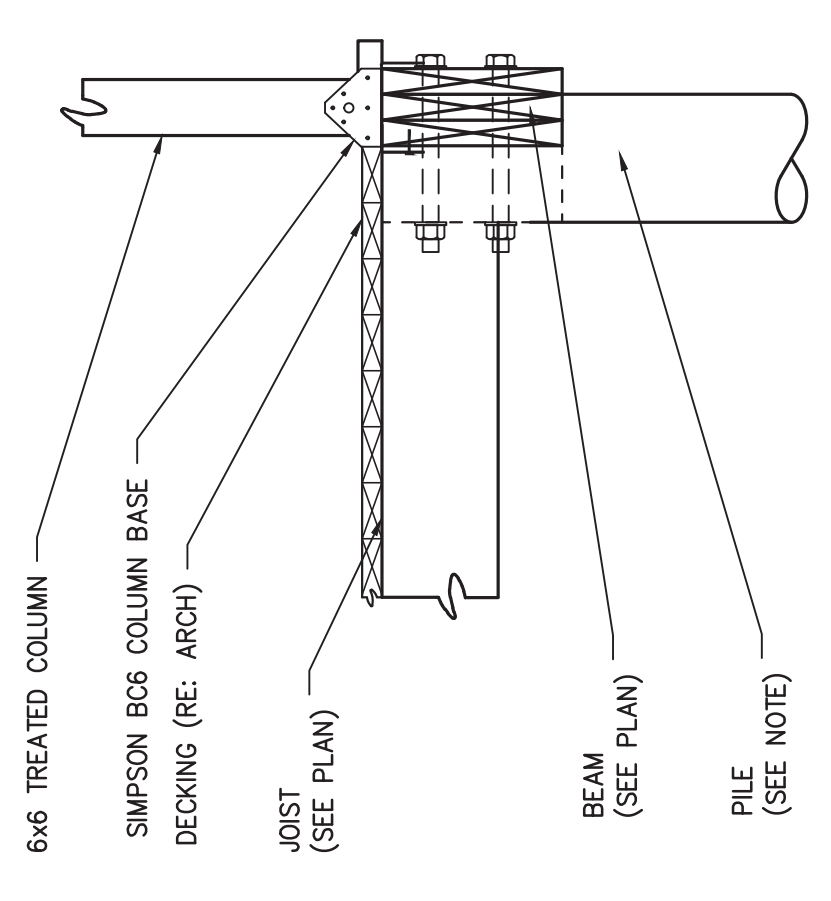
FRAMING AND TIMBER NOTES

- WOODEN CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE IRC (2012), NDS, AND WFCM.
- LUMBER DATA:
 - FRAMING LUMBER SHALL BE NO. 2 SP.
 - CEILING JOIST, ROOF RAFTERS AND ASSOCIATED FRAMING SHALL BE NO.2 SOUTHERN YELLOW PINE.
 - MODULUS OF ELASTICITY, "E" IN 1,700,000 PSI = 1.7 OR GREATER
- USE COLD ROLLED METAL JOIST HANGERS ON FLUSH FRAMED BEAMS. SIMPSON OR EQUIVALENT
- EXTERIOR WALL SHEATHING WILL BE A MINIMUM 1/2" CDX PLYWOOD OR OSB HEADERS AS PER SCHEDULE THIS SHEET.
- WOODEN BEAMS WITH PLYWOOD SHALL BE GULED AND NAILED -LOCITE W/104 NAIL @ 4" O.C. (E.W.)
- WOODEN BEAMS WITH STEEL PLATE SHALL BE BOLTED WITH 1/2" DIA. A307 GR.C STEEL BOLTS.
- WALL BRACING SHALL BE STRUCTURAL SHEATHING PER WFCM, LATEST EDITION.
- TOP PLATES SHALL BE FACE NAILED AT INTERSECTIONS WITH (4)-1Bd COMMON NAILS
- 2x4 BRACING ON 2x6 ROOF RAFTERS SHALL NOT EXCEED THE FOLLOWING:
 - 2x4 RAFTER AT 16" O.C. - 11'-3"
 - 2x6 RAFTER AT 24" O.C. - 9'-2"
- THE NUMBER AND SIZE OF NAILS AT WOOD CONNECTIONS SHALL BE PER THE LATEST EDITION OF THE WFCM OR ENGINEER'S SPECIFICATIONS.
- CONNECTORS SPECIFIED AS "SIMPSON" TYPE ARE TO BE MANUFACTURED BY SIMPSON STRONG-TIE CO. OR APPROVED EQUAL. COMPLY WITH MANUFACTURER'S FASTENING PROCEDURES. IF MANUFACTURER PROVIDES AN OPTION FOR THE INSTALLATION PROCEDURE, PROVIDE THE STRONGEST CONNECTION. CONNECTORS SHALL BE GALVANIZED.
- ANCHOR BOLTS WILL BE ANCHORED AT A MAXIMUM OF 24" ON CENTER WITH A MINIMUM A307 5/8"x10"
- WINDOWS/OPENINGS SHALL BE PROVIDED WITH ONE OF THE FOLLOWING, OPERABLE SHUTTERS, IMPACT RESISTANT GLAZING.
- BASE PLATES WILL BE ANCHORED AT A MAXIMUM OF 24" ON CENTER WITH A MINIMUM A307 5/8"x10"
- WINDOWS/OPENINGS SHALL BE PROVIDED WITH ONE OF THE FOLLOWING, OPERABLE SHUTTERS, IMPACT RESISTANT GLAZING.
- FIRE BLOCKING SHALL BE INSTALLED AS PER SECTION R602.8 OF IRC 2006. NO EXCEPTIONS.
- JOIST SHALL ONLY BE NOTCHED IF NECESSARY IN STRICT ACCORDANCE WITH IRC 2006. NO EXCEPTIONS.
- DESIGN WIND LOADS: 130MPH, EXPOSURE C, ENCLOSED STRUCTURE, I=1.0. THE OWNER SHALL COMPLY WITH THE REQUIREMENT OF AN ENCLOSED BUILDING ENVELOPE WITH WINDOWS, PERSONNEL DOORS AND GARAGE DOORS. IN THE EVENT THE OWNER DOESN'T NOT COMPLY WITH THESE REQUIREMENT, THE STRUCTURE SHALL BE REDESIGNED AS A PARTIALLY ENCLOSED STRUCTURE, AT THE OWNERS EXPENSE. NAILS SHALL BE COMMON NAILS UNLESS SPECIFIED OTHERWISE. NO EXCEPTIONS UNLESS SPECIFICALLY REQUESTED IN WRITING AND APPROVED BY THE ENGINEER OF RECORD.
- PLACE AND NAIL APA RATED PANEL ON ROOF WITH LONG DIMENSION PERPENDICULAR TO SUPPORTS. PLACE AND NAIL GYPSUM BOARD ON INTERIOR WITH LONG DIMENSION CONTINUOUS OVER AT LEAST TWO SPANS. USE MINIMUM OF 24" WIDE PANELS. (48 SHEETS ONLY)
- USE "K" PANEL CLIPS TO PROVIDE 1/8" SPACE IN ROOF SHEATHING AT PANEL EDGES AND ENDS UNLESS NOTED OTHERWISE BY PANEL MANUFACTURER.

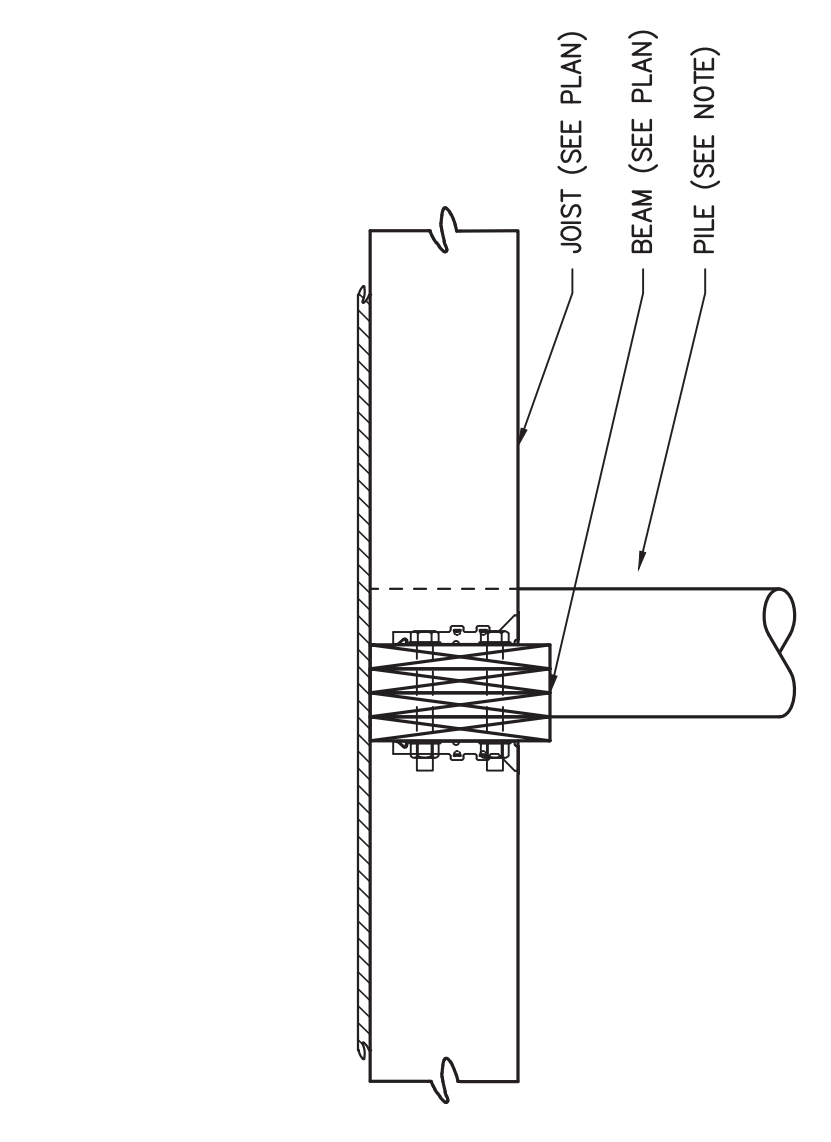
DESIGN LOADS: RESIDENTIAL
 40 P.S.F.
 ROOF LIVE LOAD: 20 P.S.F.
 WIND SPEED: 130 MPH - CATEGORY B.
 DESIGN WIND LOAD: 130 MPH - M.W.F.R.S.
 IMPORTANCE FACTOR 2 ENCLOSED BUILDING - M.W.F.R.S.



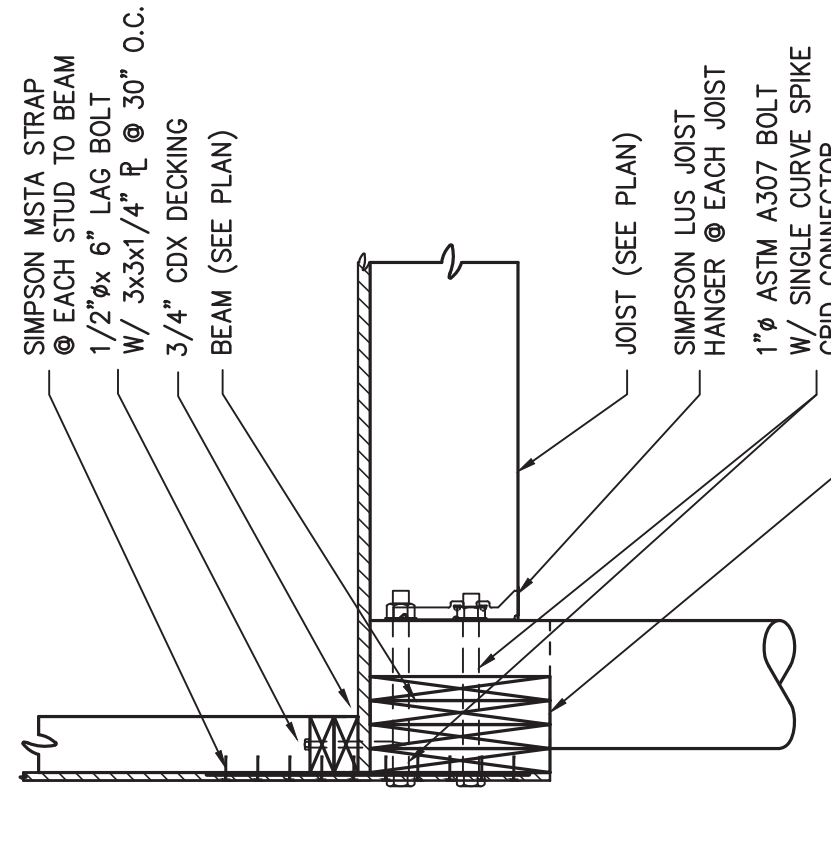
SECTION A
 SCALE: 1" = 1'-0"
 SEE S2.0/S3.0 FOR DETAILS



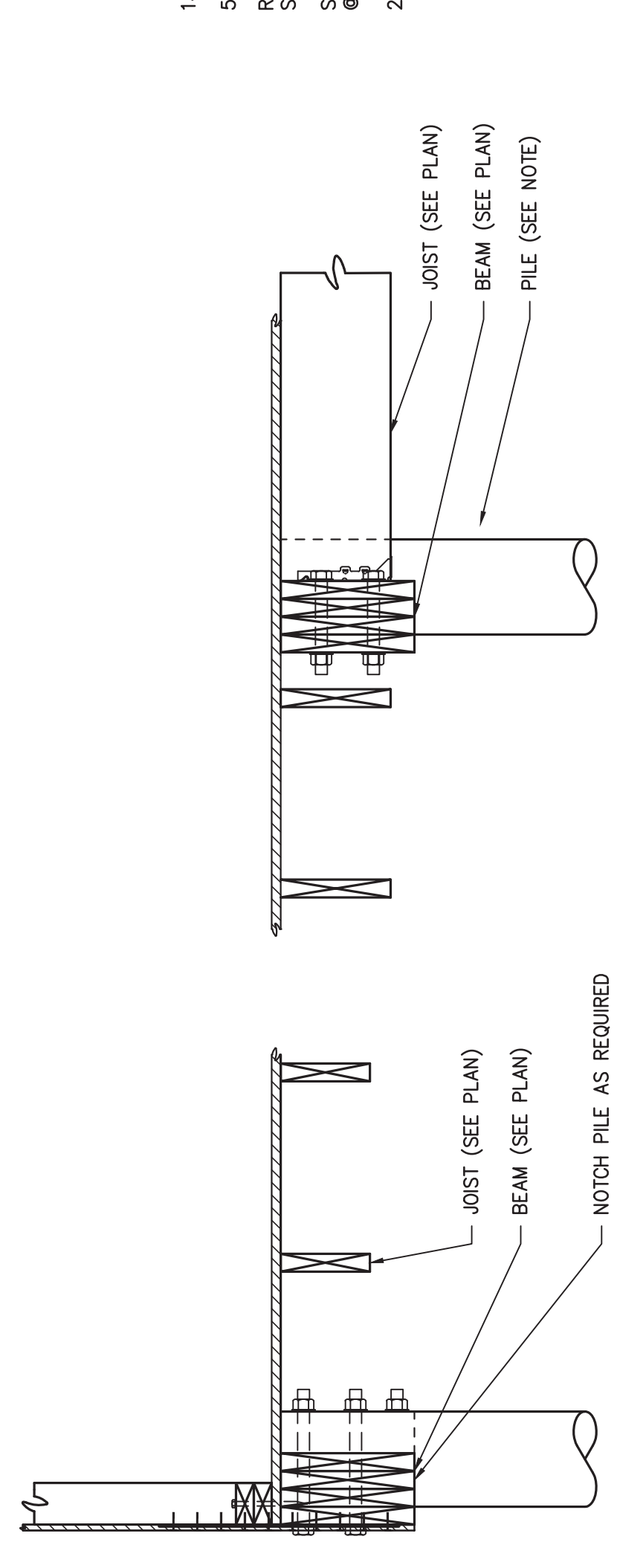
SECTION B
 SCALE: 1" = 1'-0"
 SEE S2.0/S3.0 FOR DETAILS



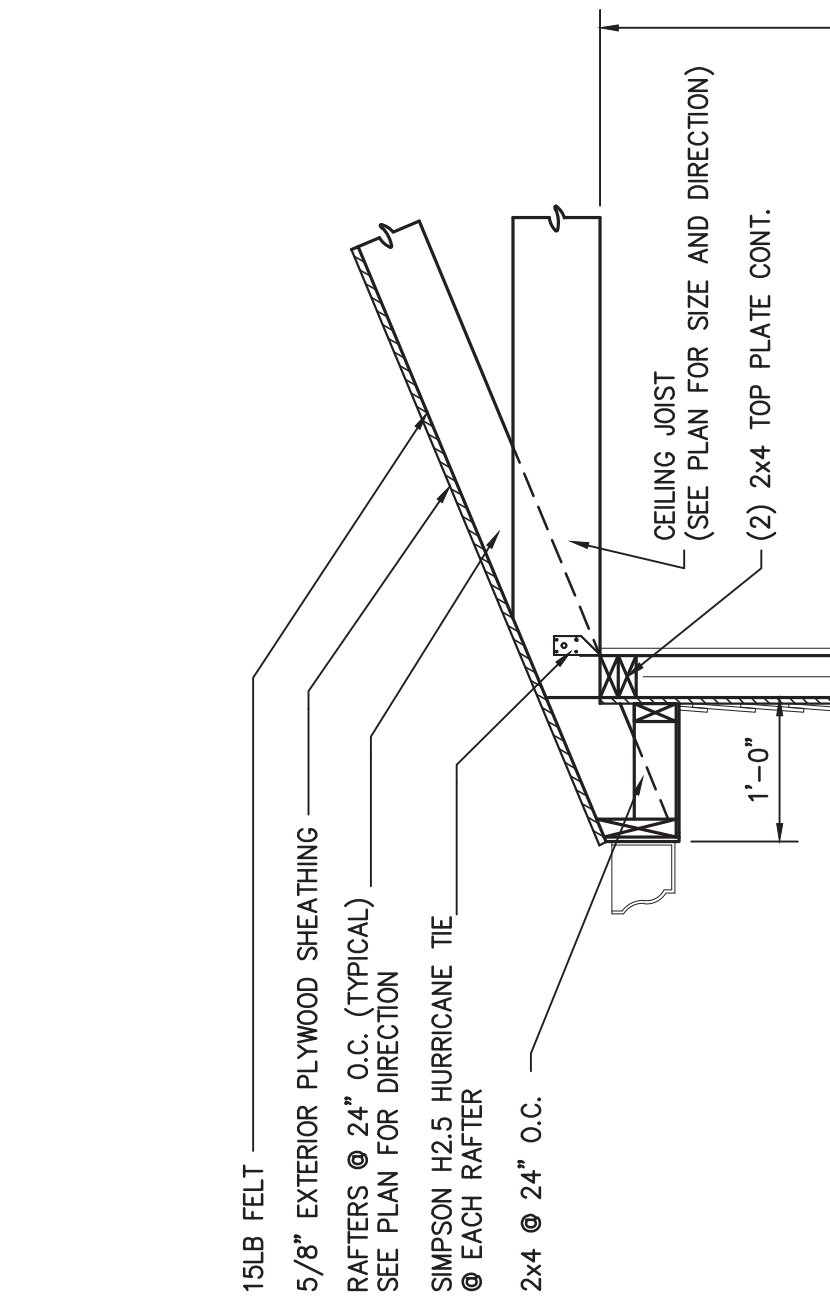
SECTION C
 SCALE: 1" = 1'-0"
 SEE S2.0/S3.0 FOR DETAILS



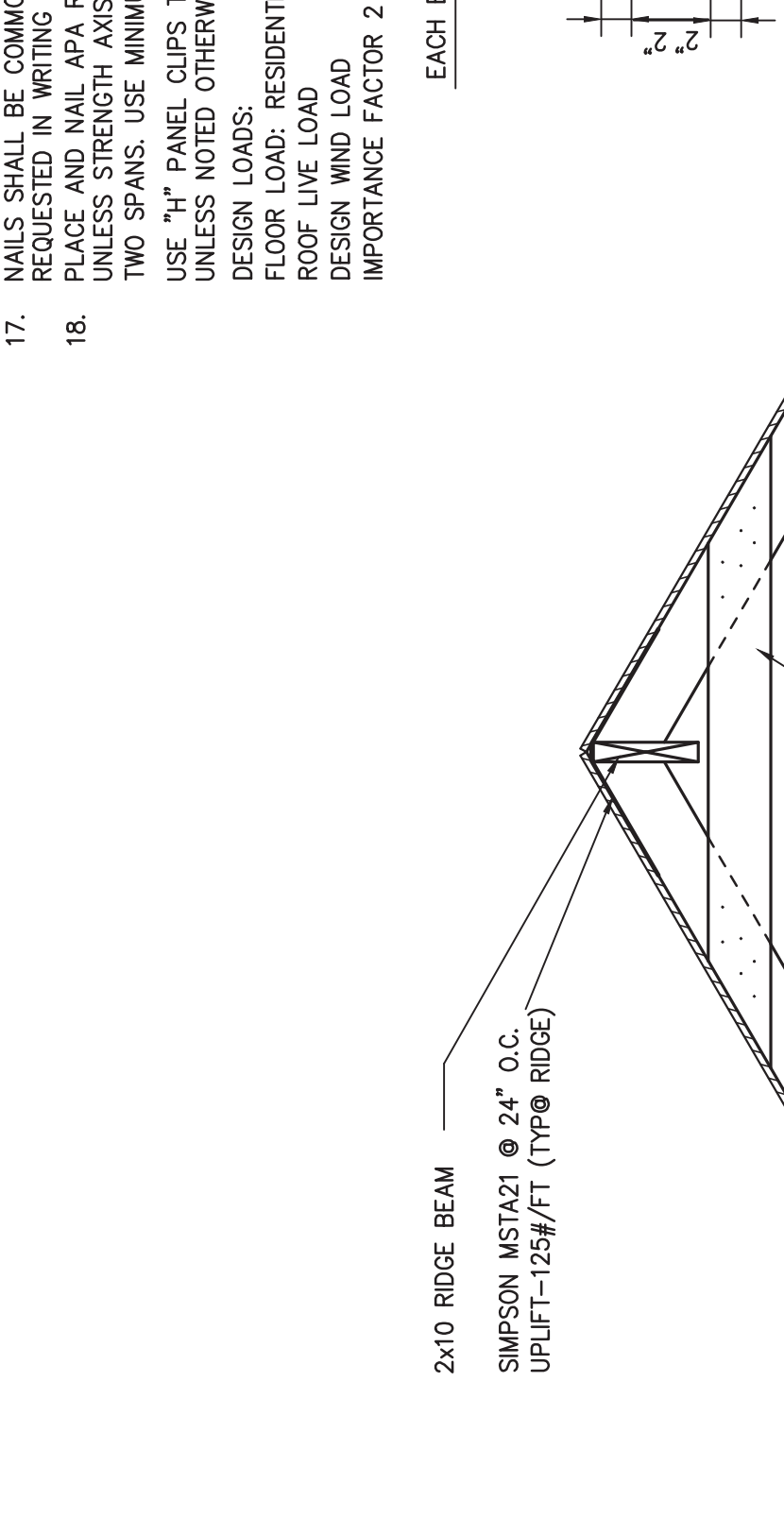
SECTION D
 SCALE: 1" = 1'-0"
 SEE S2.0/S3.0 FOR DETAILS



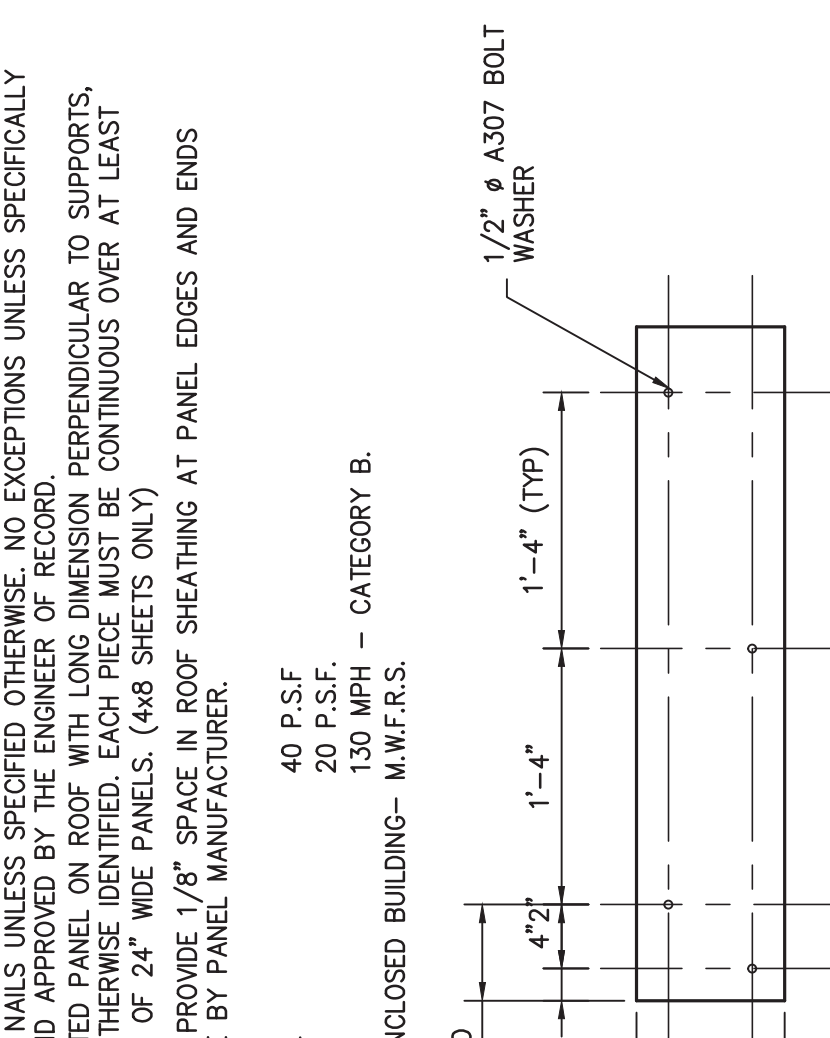
SECTION E
 SCALE: 1" = 1'-0"
 SEE S2.0/S3.0 FOR DETAILS



SECTION F
 SCALE: 1" = 1'-0"
 SEE S2.0/S3.0 FOR DETAILS

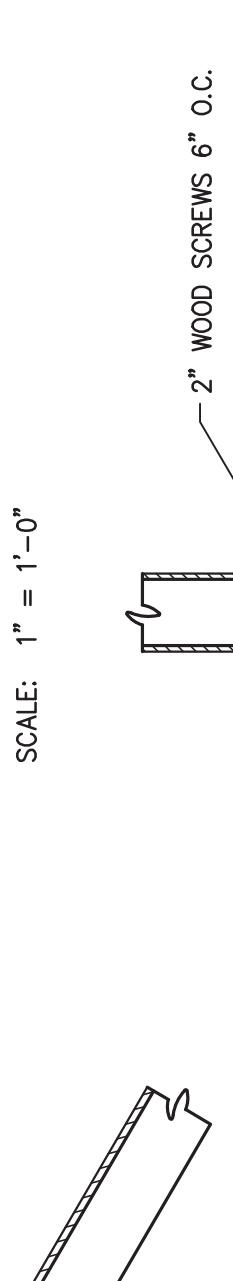


SECTION G
 SCALE: 1" = 1'-0"
 SEE S2.0/S3.0 FOR DETAILS



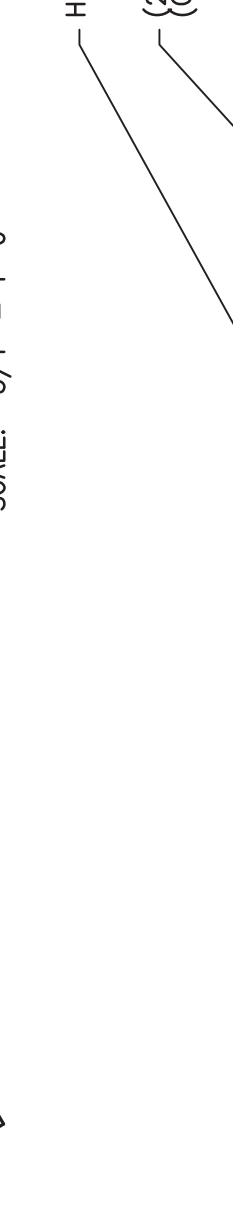
SECTION H
 SCALE: 1" = 1'-0"
 SEE S2.0/S3.0 FOR DETAILS

TYPICAL COMPOSITE BEAM FASTENING PATTERN



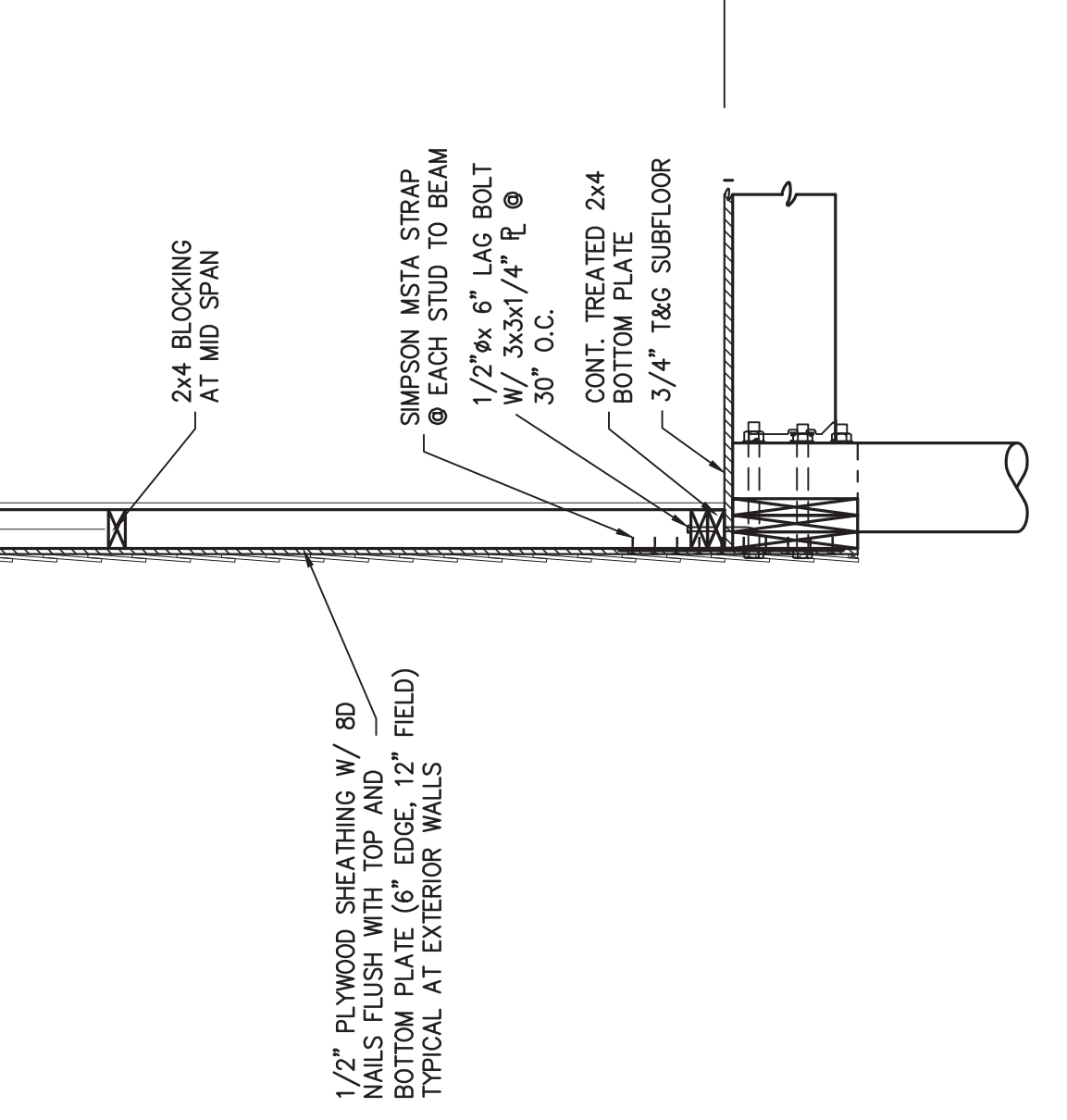
SCALE: 1" = 1'-0"

COLLAR BRACING DETAIL



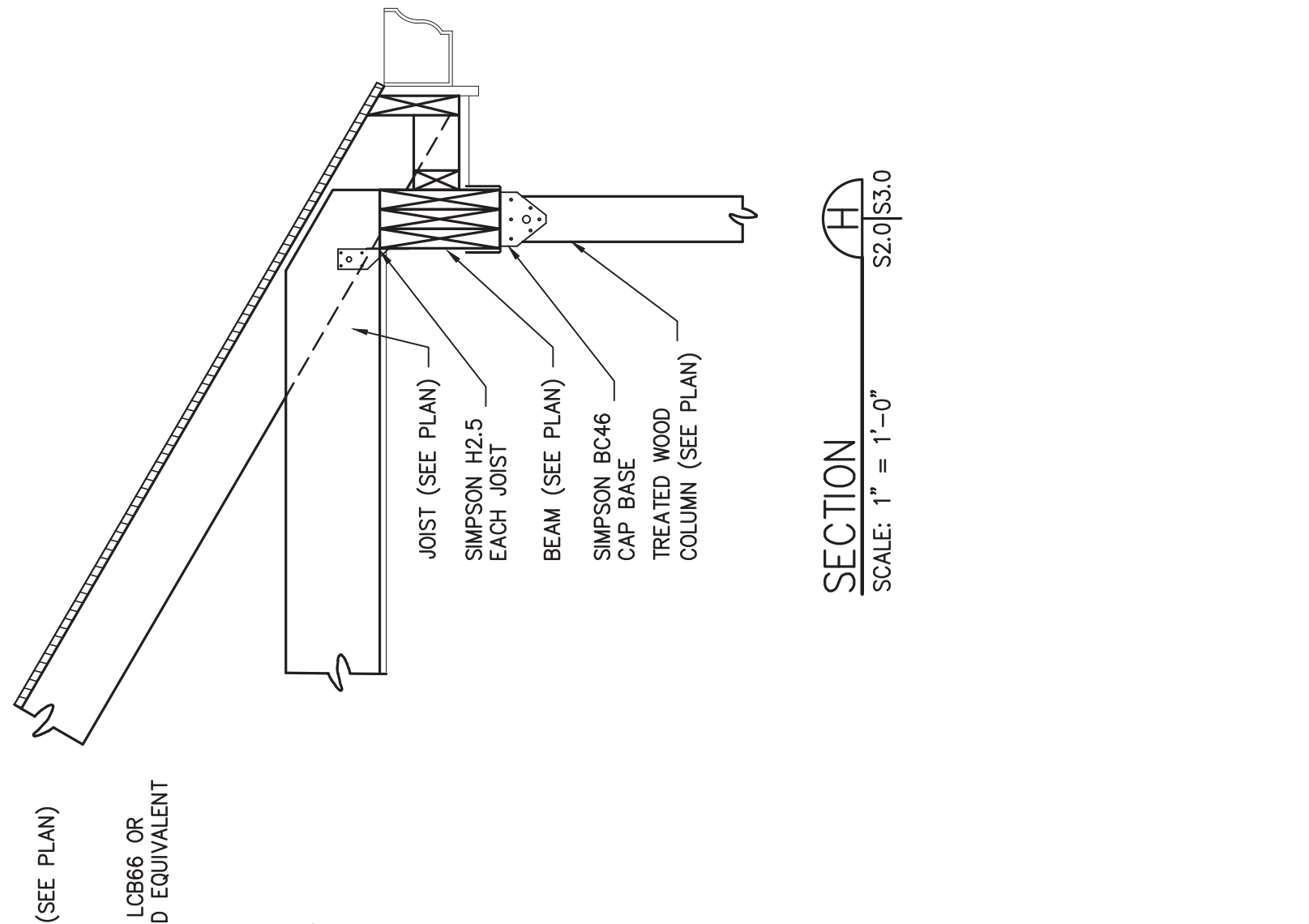
SCALE: 3/4" = 1'-0"

TYP. WALL SECT.



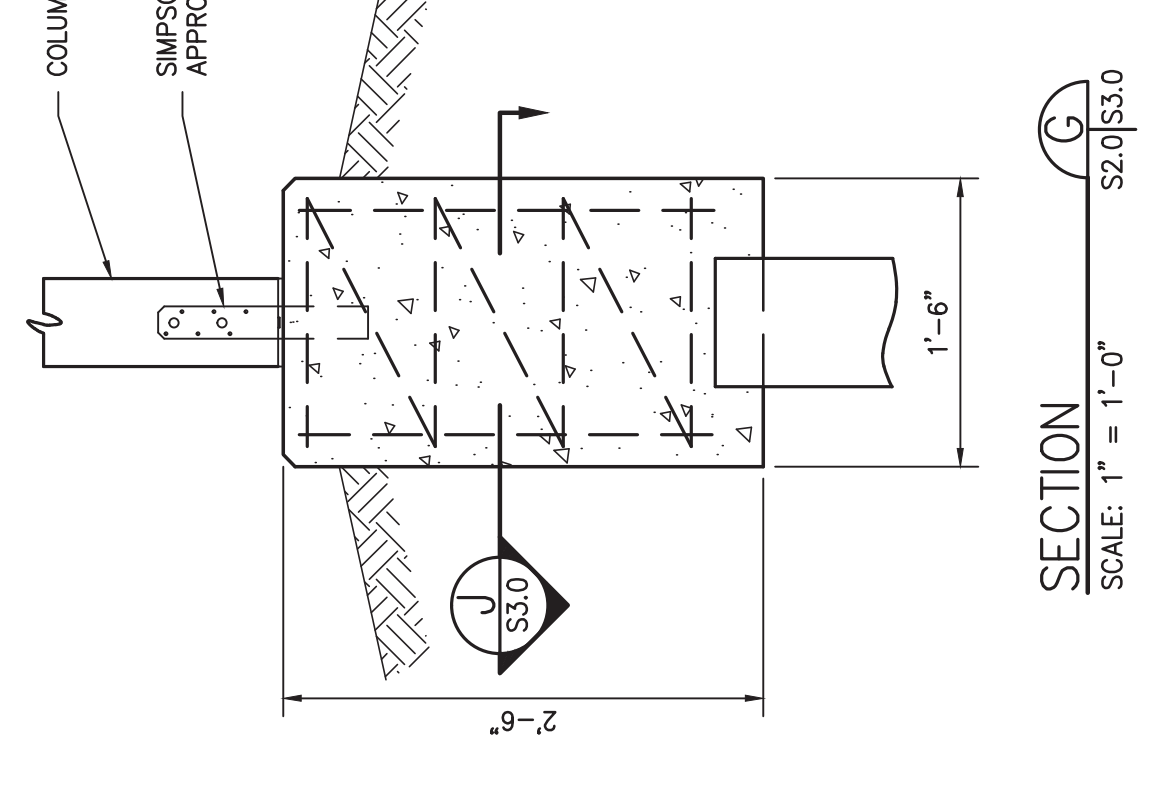
SCALE: 3/4" = 1'-0"

TYP. WINDOW OPENING DETAIL

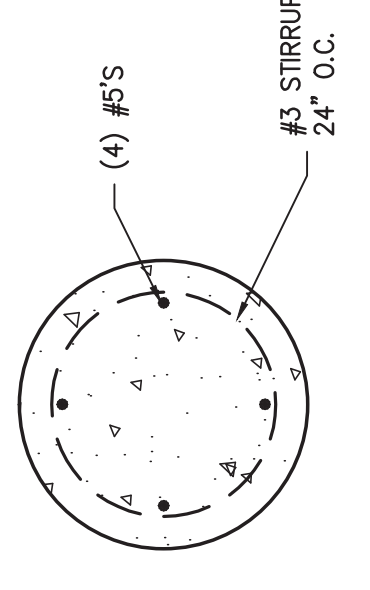


SCALE: 3/4" = 1'-0"

TYP. SHEAR WALL DETAIL



SCALE: 3/4" = 1'-0"



SECTION J
 SCALE: 1" = 1'-0"
 SEE S3.0/S3.0

MARK	DESCRIPTION	DATE	BY
A	FOR APPROVAL	12/11/2015	RMC

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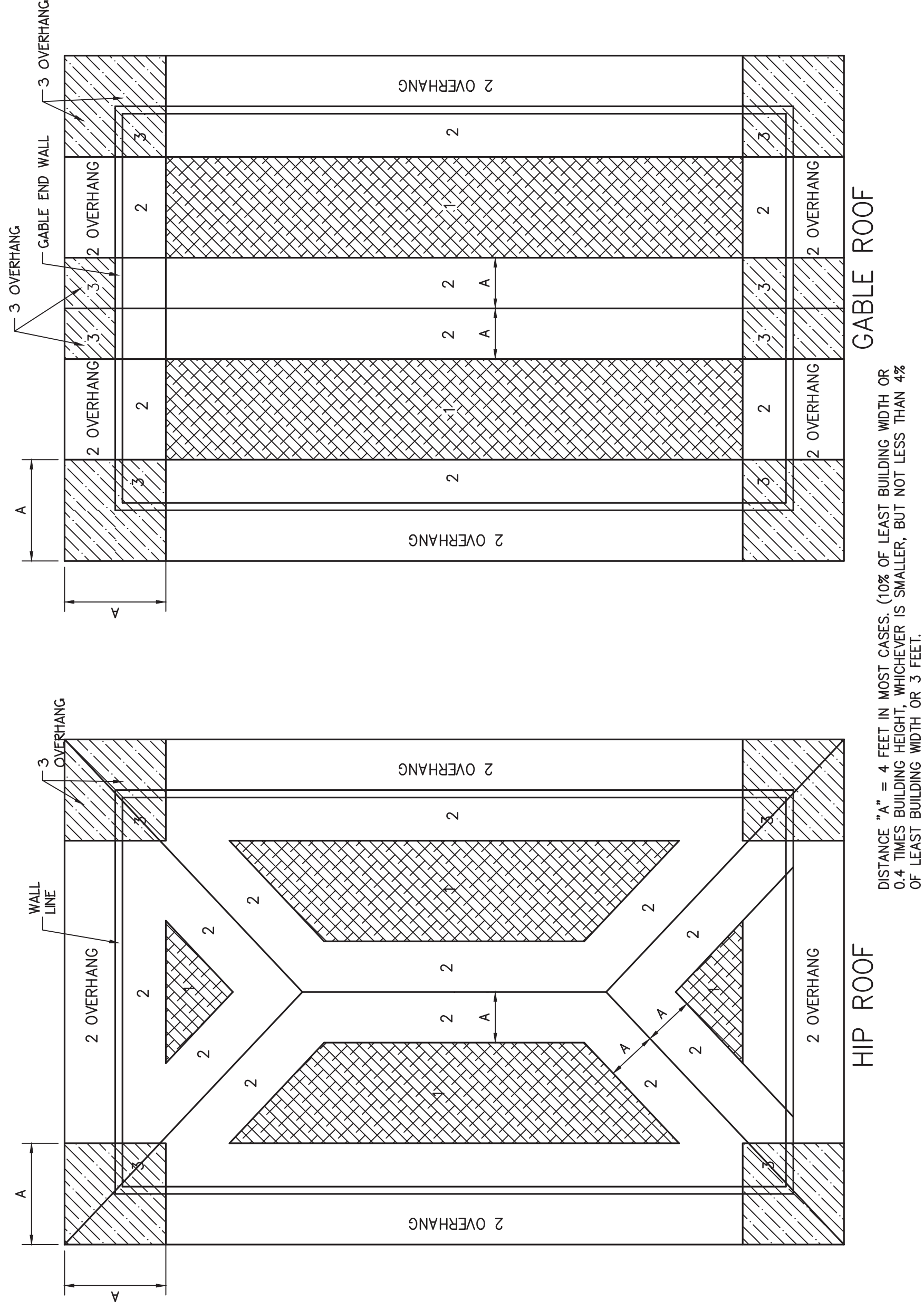
DRAWN BY	RMC
CHECKED BY	RMC
DATE	1/12/2016
CEI PROJECT NO.	2015-12T
SHEET	S3.0



ROOF SHEATHING FASTENING SCHEDULE

8D COMMON (0.131X 2 1/2") OR RING SHANK (0.135X 2 1/2")
EXCEPT WHERE NOTED, EXPOSURE B, ENCLOSED BUILDING, ROOF FRAMING
SPACED 24" OR LESS

WIND VELOCITY (3 SEC. GUST)	ROOF FASTENING ZONE		OVERHANG (EAVES)
	MAIN ROOF	SHEATHING TO GABLE END WALL FRAMING	
150 MPH	1	2	2
	2	3	3
	3	3	3
120 MPH	6	6	6
	6	6	6
	6	6	6



ROOF SHEATHING FASTENING ZONES UPLIFT CONNECTIONS

ROOF ASSEMBLY TO WALL ASSEMBLY:
UPLIFT CONNECTIONS SHALL BE FROM RAFTER OR TRUSS TO WALL STUD. WHEN RAFTERS OR TRUSSES ARE NOT LOCATED DIRECTLY ABOVE STUDS, RAFTERS SHALL BE ATTACHED TO THE WALL PLATE AND THE WALL TOP PLATE SHALL BE ATTACHED TO THE WALL STUD WITH UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE.

WALL ASSEMBLY TO WALL ASSEMBLY:
STORY TO STORY UPLIFT CONNECTIONS FROM UPPER STORY WALL STUD TO LOWER STORY WALL STUD. WHEN UPPER STORY STUDS ARE NOT LOCATED DIRECTLY ABOVE LOWER WALL STUDS, THE STUDS SHALL BE ATTACHED TO A COMMON MEMBER IN THE FLOOR ASSEMBLY BY UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE.

HOLD DOWNS
HOLD DOWNS ARE REQUIRED AT THE END OF EACH CEMENTED SHEARWALL SEGMENT OR AT THE END OF A PERFORATED SHEARWALL. WHEN FULL HEIGHT SHEARWALL SEGMENTS MEET AT A CORNER, A SINGLE HOLD DOWN SHALL BE PERMITTED TO BE USED TO RESIST THE OVERTURNING FORCES IN BOTH DIRECTIONS WHEN THE CORNER FRAMING IN THE ADJOINING WALL IS FASTENED TOGETHER TO TRANSFER THE UPLIFT LOAD. SEE TYPICAL HOLD DOWN DETAIL.

ROOF UNDERLAYMENT APPLICATION

FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17% SLOPE), UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33% SLOPE), UNDERLAYMENT SHALL BE TWO LAYERS APPLIED IN THE FOLLOWING MANNER:

APPLY A 1/8" STRIP OF UNDERLAYMENT FELT PARALLEL WITH AND STARTING AT THE EAVES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. STARTING AT THE EAVE, APPLY 3/8" WIDE UNDERLAYMENT SUFFICIENTLY TO HOLD IN PLACE. OVERLAPPING SUCCESSIVE SHEETS 1'-7" AND FASTENED SUFFICIENTLY TO HOLD IN PLACE.

FOR ROOF SLOPES OF FOUR UNITS VERTICAL (33% SLOPE) OR GREATER, UNDERLAYMENT SHALL BE ONE LAYER APPLIED OVER STEEL FLASHING PACKABLE TO THE EAVE AND LAPPED 2". FASTENED SUFFICIENTLY TO HOLD IN PLACE. END LAPS SHALL BE OFFSET BY 6".

WALL ASSEMBLY TO FOUNDATION:

FIRST FLOOR WALL STUDS SHALL BE CONNECTED TO THE FOUNDATION, SILL PLATE, OR BOTTOM PLATE A MINIMUM OF A 1 1/4" x 20 GA. ASTM A653 GRADE 33 STEEL STRAP SHALL BE NAILED TO THE WALL STUDS AND HAVE A MINIMUM EMBEDMENT OF 7" IN CONCRETE FOUNDATIONS AND SLABS-ON-GRADE, 15" IN CONCRETE FOUNDATIONS OR RAFTERS. ANCHORS OR ANCHOR BOLTS AND ANCHOR BOLT SPACING SHALL NOT EXCEED THE REQUIREMENTS. STEEL STRAPS EMBEDDED OR IN CONTACT WITH SLAB-ON-GRADE OR MASONRY BLOCK FOUNDATIONS SHALL BE HOT DIPPED GALV. AFTER FABRICATION, OR MFG. FROM G185 OR Z450 GALV. STL. CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE.

HEADER SPANS – EXPOSURE B OR LOAD BEARING WALLS (CEILING, ROOF, EXTERIOR, ETC.)

SPAN	HEADER SIZE	NO. FULL HT STUDS REQ. @ EA. END	UPLIFT (LB.)	LATERAL (LB.)
2'-0"	2-2x4	1	364	157
3'-0"	2-2x4	2	546	236
4'-0"	2-2x4	2	728	314
5'-0"	2-2x6	3	910	393
6'-0"	2-2x6	3	1092	471
7'-0"	2-2x10	3	1274	550
8'-0"	3-2x8	3	1456	628
9'-0"	3-2x12	3	1638	707
10'-0"	4-2x12	4	1820	785

HEADER SCHEDULE

MARK	BEAM SIZE	MATERIAL	REMARKS
H1	(2)-2x12	SYP NO. 2	
H2	(3)-2x12	SYP NO. 2	
H3	(4)-2x12	SYP NO. 2	

HEADER SPANS – EXPOSURE B FOR NON LOAD BEARING WALLS

SPAN	MIN. HEADER SIZE	NO. FULL HT STUDS REQ. @ EA. END	UPLIFT #	LATERAL #
2'-0"	1-2x4 FLAT	1	60	157
3'-0"	1-2x4 FLAT	2	90	236
4'-0"	1-2x4 FLAT	2	120	314
5'-0"	1-2x4 FLAT	3	150	393
6'-0"	1-2x6 FLAT	3	180	471
7'-0"	1-2x6 FLAT	3	210	550
8'-0"	2-2x6 FLAT	3	240	628
9'-0"	2-2x6 FLAT	3	270	707
10'-0"	2-2x6 FLAT	4	300	785
11'-0"	2-2x6 FLAT	4	330	864

WINDBORNE DEBRIS PROTECTION FASTENING SCHEDULE FOR WOOD STRUCTURAL PANELS

FASTENER TYPE	FASTENER SPACING		
	PANEL SPAN < 4 FT.	4 FT. PANEL SPAN < 6 FT.	6 FT. PANEL SPAN < 8 FT.
2 1/2" #8 WOOD SCREWS	16"	12"	9"
2 1/2" #8 WOOD SCREWS	16"	16"	12"

WINDOWS IN BUILDINGS LOCATED IN WINDBORNE DEBRIS REGIONS SHALL HAVE GLAZED WINDOW PROTECTION FROM WINDBORNE DEBRIS. WOOD STRUCTURAL PANELS SHALL BE PROTECTED FROM WINDBORNE DEBRIS BY FASTENING TO THE WINDOW FRAME. PROTECTION IN ONE & TWO STORY BUILDINGS. PANELS SHALL BE PRECUT TO COVER THE GLAZED OPENINGS WITH ATTACHMENT HARDWARE PROVIDED.

SCHEDULE OF STRUCTURAL CONNECTORS

CONNECTOR	STRUCTURAL CONNECTIONS	FASTENERS	ALLOWABLE LOADS	ACTUAL LOADS
SIMPSON SP2	WALL STUD TO TOP PLATE	SP2 12-10d	890	702
SIMPSON SP1	WALL STUD TO BOTTOM PLATE	10-10d	585	475
SIMPSON HD2A	HOLD DOWN AT OPENINGS AND SHEARWALLS	5/8" A307 ANCHOR BOLT, W/ 2-5/8" MACHINE BOLTS.	2775	0
SIMPSON LTP4	TOP PLATE TO RM. JOIST	12-8d (1 1/2")	670	630
SIMPSON LSTA36	FLOOR TO FLOOR	24-10d (1 1/2")	1640	630
SIMPSON H25A	RAFTER TO TOP PLATE	10-8d (1 1/2")	600	550
SIMPSON MTS20	RAFTER TO TOP PLATE/STUD	14-10d (1 1/2")	860	0
SIMPSON MSTA18	HEADER TO HEADER STUD	14-10d (1 1/2")	1140	0
SIMPSON A35	CABLE RAKE TO WALL STUD TO PLATE	12-8d (1 1/2")	345	2102
5/8" ANCHOR BOLT W/ 3/4"x8" WASHER	SILL PLATE TO CONCRETE FOUNDATION	5/8" ANCHOR BOLT 9" MIN. EMBEDMENT	2310	0
CRS2066-SDS2	WOOD COLUMN HOLD DOWN	14-SIMPSON SDS 1/4"x2" SCREWS	5710	0
CC046SDS2.5	WOOD COLUMN TO BEAM	30-SIMPSON SDS 1/4"x2 1/2" SCREWS	5955	0
SIMPSON ECCL146	WOOD COLUMN TO BEAM AT CORNER	6-5/8" MACHINE BOLT WITH NUT AND WASHER	740	0

FASTENING SCHEDULE

CONNECTION	MATERIAL	FASTENER	SCHEDULE	REMARKS
EXTERIOR STUD WALL TO CONCRETE SLAB	PRESSURE TREATED BASE PLATE	5/8" X 10" A307 ANCHOR BOLTS	30" O.C.	12" MAX FROM CORNER OF SLAB OR END OF BASE PLATE
EXTERIOR STUD WALL TO ROOF RAFTER	1/2" PLYWOOD OVER WOOD STUDS @ 16" O.C.	10d COMMON NAIL	2" PERMETER 12" INTERIOR	PLYWOOD TO BE FLUSH WITH EDGE OF FOUNDATION
ROOF SHEATHING TO RAFTERS	(2) TOP PLATE TO RAFTERS @ 16"	SIMPSON H2.5 AT EACH RAFTER	FASTEN PER MANUFACTURER	
	5/8" PLYWOOD OVER RAFTERS @ 16"	10d COMMON NAIL	3" PERMETER 6" INTERIOR	



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304 SULEN PLACE
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