				FASTENE	R SCHEDULE				
FASTENERS				ROOF / WALL / FLOOR SHEATHING					
APPLICATION	SIZE	TYPE	SPACING	REMARKS	APPLICATION	SIZE	TYPE	SPACING	REMARKS
GARAGE DOOR BUCK TO MASONRY/CONC.	¼"ø " NO WASHER	TAPCON" MASONR FASTENER	Y 8" O/C, SEE NOTE 6 BELOW	1½" EMBED, 4" END. DIST., 1½" EDGE DIST.	FLOOR SHEATHING 3" (32") T&G	0.131ø x 2½"	8d SMOOTH SHANK	SEE PLAN	FBC R4409.9.1.8.1
GARAGE DOOR BUCK TO MASONRY/CONC.	½" ø W/ WASHER	EXPANSION BOLT	24" O/C, SEE NOTE 6 BELOW	4" EMBED, 4" END. DIST., 3" EDGE DIST.	ROOF SHEATHING §" (19") EXP. 1	0.131 Ø x 2¾" 16-20 RINGS/INCH	8d RING SHANK	SEE PLAN	FBC 4409.9.2.5.1.
METAL STRAP TO MASONRY OR CONC.	IETAL STRAP TO CONTACT THIS ENGINEER FOR SPECIFIC PEOLIDEMENTS			WALL SHEATHING $\frac{19}{8}$ " ($\frac{19}{32}$ ") EXP. 1	0.131 ø x 2¾"	8d COMMON	SEE PLAN	FBC 4409.9.9.3	
					WINDOW AND DOOR BUCK FASTENERS				
NON-BEARING WOOD	1" Ø	EXPANSION	24" O/C	4" EMBED, 4" END.	APPLICATION	SIZE	TYPE	SPACING	REMARKS
WALL TO CONC. SLAB	W/ WASHER	BOLT	,	DIST., 3" EDGE DIST.	1x2 PT FURRING TO MASONRY/CONC.	CASE HARDENED COIL		8" O/C	FBC R4409.10.1
	METAL LAT	H @ WIRE F	ASTENERS		·	NAIL 1½" LONG.		·	
APPLICATION	SIZE	TYPE	SPACING	REMARKS	SGD, AL. EXT. DOORS 1x PT, SEE NOTE #7	CASE HARDENED COIL NAIL 1½" LONG.		9" O/C STAGGERED	WINDOW/DOOR FASTENED INTO MASONRY/CONC.
WIRE LATH	16 GAUGE W/	#11 GAGE	6" APART & SIDE		WINDOW BUCK 1x PT, SEE NOTE 7	CASE HARDENED COIL NAIL 1½" LONG.		9" O/C STAGGERED	WINDOW/DOOR FASTENED INTO MASONRY/CONC.
	1½" MIN. EMBED	¾" HEAD	LAPS 9"	TABLE 4411.1.3.2	EXT. SWING. DOOR BUCK 2x PT, SEE NOTE	¼" ø NO WASHER	"TAPCON" FASTENER	12" O/C	$1\frac{1}{2}$ " EMBED, 4" END. DIST., $1\frac{1}{2}$ " EDGE DIST.
§" METAL RIB LATH	16 GAUGE W/ 1½" MIN. EMBED	#11 GAGE ¾" HEAD	6" APART & SIDE LAPS 9"	FBC R4411 TABLE 4411.1.3.2	2x PT WINDOW BUCK PT TO STEEL COL., SEE NOTE 7	0.138 Ø PAF x 2 <mark>1</mark> " W/ WASHER		9" O/C STAGGERED	4" END. DIST., 1½" EDGE DIST.

HAND NAILING MAY BE USED IN LIEU OF POWER DRIVEN FASTENERS STAPLES SHALL NOT BE USED FOR ANY STRUCTURAL APPLICATIONS

FASTENING OF GARAGE DOORS, WINDOWS AND EXTERIOR SWING DOORS TO FRAMING BUCKS SHALL BE AS PER MANUFACTURER'S SPECS AND/OR NOA

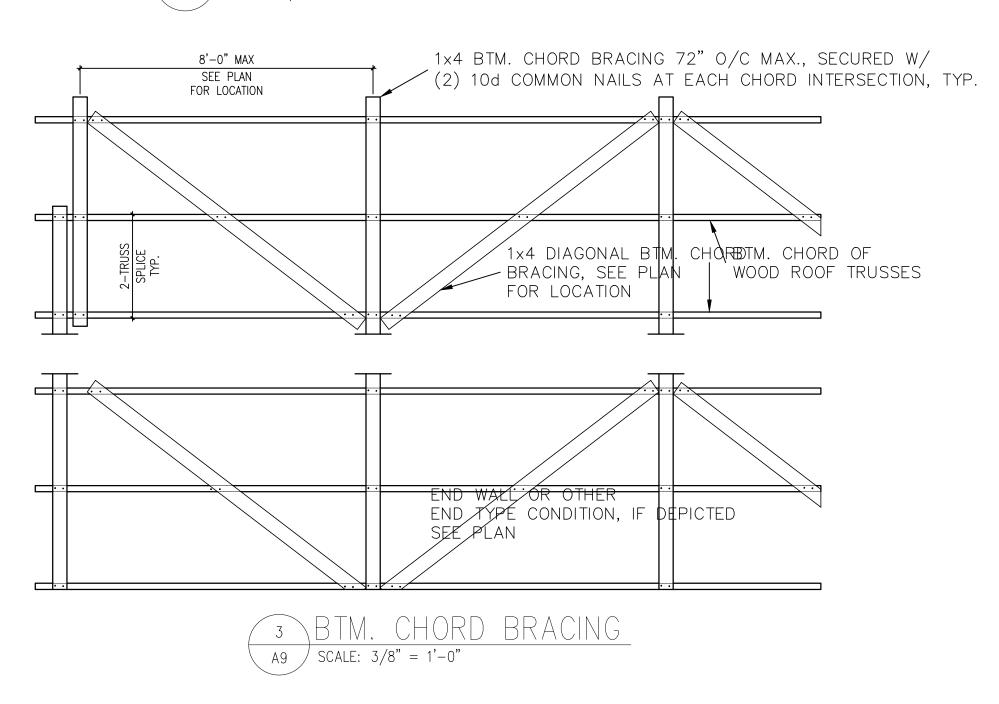
DOOR WITH A WOOD DOOR FRAME. 1x MEMBERS ARE NAILED AND 2x MEMBERS ARE SECURED W/ TAPCONS OR PAF TO THE SUBSTRATE.

- ALL FASCIA MATERIAL SHALL BE HAND FRAMED. - PAF SHALL BE HILTI X—7F HEAVY DUTY PINS OR FOLIAL SAME DIAMETER AS SPECIFIED HEREIN.
- FASTENER SPACING FOR THE BLICKS SHALL THE STRICTER REQUIREMENT OF THE NOA OR THE SPACING DETAILED AROVE WINDOW AND DOOR BUCKS SHALL BE AS WIDE OR WIDER AS THE DOOR OR WINDOW FRAME EXCEPT FOR AN EXTERIOR SWING

19/32" CDX PLYWOOD SHEATHING WITH 8d RING SHANK NAILS @ 6" O/C. FIELD, EDGES AND 4" O/C DIAPHRAGM BOUNDARIES (FASCIA) ENGINEERED WOOD TRUSSES @ 24" O/C, SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL USP RFUS STEEL CONNECTOR ONE EACH SIDE OF GIRDER • WITH (4) $\frac{3}{4}$ " ϕ HILITI KWIK 3 BOLTS W/ 5" CONCRETE EMBEDMENT MIN. AND (12) WS3 WOOD SCREWS TO GIRDER MASONRY BOND BEAM

SEE SCHEDULE

TYPICAL GIRDER TRUSS CONNECTOR(S) A9 $\int SCALE: 3/4" = 1'-0"$



STRUCTURAL NOTES

40 psf

25 psf

GENERAL NOTES:

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT ARCHITECTURAL DRAWINGS FOR SLEEVES, DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS. APPLICABLE BUILDING CODE STANDARDS: FBC-R2010 ACI 318-05, BUILDING CODE REQUIREMENTS

FOR STRUCTURAL CONCRETE, ACI 530-05/ASCE 7-10, AISI SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS 1986, ASCE 7-10 AND AISC SPECIFICATIONS

ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL IS SHOWN.

ALL DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. DO NOT SCALE THE DRAWINGS. FOLLOW WRITTEN DIMENSIONS ONLY. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH THE AFFECTED PART OF THE WORK.

THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PRO-CEDURES AND SEQUENCES TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS WORK INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS.

THE CONTRACTOR SHALL SUPPLEMENT THE MINIMUM REQUIRED FOUNDATION AND SITE PREP-ARATION REQIREMENTS AND SLAB-ON-GRADE THICKNESS TO HANDLE CONSTRUCTION LOADS.

DESIGN LOADS:	ROOF:	LIVE LOAD	30 psf	FLOOR:	LIVE LOAD
		DEAD LOAD	25 psf		DEAD LOAD
				BALCONY	LIVE LOAD
	WIND.	DECICN WIND CD	TED - 170 mm	h (626 m/a)	3 SECOND CLIST

DESIGN WIND SPEED = 1/0 mph (62.6 m/s) 3-SECOND GUST (ASCE 7-10 (FBC R2010) EXPOSURE C, CATEGORY II) SHOP DRAWING REVIEW

SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRAC-TOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC.

ALL SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED. SHOP DRAWINGS IN THE FORM OF REPRODUCIBLE SEPIAS OF STRUCTURAL DRAWINGS (CON-TRACT DOCUMENTS) ARE PROHIBITED WITHOUT THE EXPRESS WRITTEN PERMISSON FROM THE ENGINEER.

IN ALL INSTANCES, THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS CHECKED, UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER.

FOUNDATION/SITE PREPARATION:

FOOTINGS WERE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,500 PSF, FOOTING EXCAVATIONS AND SLAB SUBGRADE SHALL BE COMPACTED TO A DRY DENSITY OF AT LEAST 98% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY, DETERMINED IN ACCORDANCE WITH ASTM D-1557. TREAT ALL SOIL FOR TERMITE PROTECTION.

THE OWNER SHALL RETAIN THE SERVICES OF AN INDEPENDENT GEOTECHNICAL ENGINEER TO VERIFY SUCCESSFUL COMPLETION OF SITE PREPARATION EFFORTS. LOCATIONS FAILING TO MEET THE GEOTECHNICAL ENGINEER'S REQUIREMENTS SHALL BE RECOMPACTED AND RETESTED AT THE CONTRACTOR'S EXPENSE, AND AS DIRECTED BY THE ENGINEER. WRITTEN CERTIFICATION THAT THE MINIMUM DESIGN BEARING CAPACITY, AND THAT THE COMPACTION REQUIREMENTS HAVE BEEN MET SHALL BE MADE BY THE GEOTECH. ENGINEER.

CONCRETE:

CONCRETE SHALL ACHIEVE MINIMUM 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:

2.500 PSI REGULAR WEIGHT FOR FOOTINGS, AND SLAB-ON-GRADE 3,000 PSI REGULAR WEIGHT FOR BEAMS, COLUMNS, AND 5" STRUCTURAL TERRACE SLAB

CONTRACTOR SHALL SUBMIT PROPOSED MIX DESIGNS, WITH HISTORICAL STRENGTH DATA FOR EACH SEPARATE MIX PRIOR TO CONCRETE PLACEMENT. CONCRETE SLUMP SHALL

CONCRETE SHALL COMPLY WITH ALL THE REQUIREMENTS OF ACI 301 AND ASTM C-94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME-STAMPED WHEN CONCRETE IS BATCHED. THE MAXIMUM TIME ALLOWED FROM WHEN WATER IS ADDED TO THE MIX UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED 90 MINUTES. IF FOR ANY REASON THERE IS A DELAY SUCH THAT A BATCH IS HELD FOR LONGER THAN 90 MINUTES, THE CONCRETE SHALL NOT BE PLACED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LABORATORY TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRAC-

REQUIRED CONCRETE COVERAGE OVER REBAR SHALL BE AS FOLLOWS:

NOT EXCEED 5" +/- 1" PRIOR TO THE ADDITION OF PLASTICIZER.

- A. 3" FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH (FOUNDATIONS):
- B. FOR CONCRETE EXPOSED TO EXTERIOR WEATHER:
- 1-1/2" FOR #5 AND SMALLER
- 2" FOR #6 AND LARGER

TOR OF ANY NONCOMPLIANCE WITH THE ABOVE.

- C. FOR CONCRETE NOT EXPOSED TO WEATHER:
- 3/4" FOR SLABS, WALLS, AND JOISTS
- 1-1/2" FOR BEAM AND COLUMN PRIMARY REINF., TIES, STIRRUPS

FORMWORK:

FORMWORK, SHORING, AND BRACING FOR ALL CONCRETE BEAMS, SLABS, COLUMNS, WALLS, AND FOOTINGS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ACI 347, "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK".

WELDED WIRE MESH:

WELDED WIRE MESH, SHALL BE ASTM A185, GRADE 65, FREE FROM OIL, SCALE, AND RUST, AND SHALL BE PLACED IN ACCORDANCE WITH THE ACI TYPICAL DETAILS. MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES. WIRE MESH FOR SLABS SHALL BE SUPPORTED W/ 2" CHAIRS SPACED 3'-0" OC, EACH WAY

REINFORCING STEEL:

REBAR SHALL BE ASTM A615 GRADE 60 DEFORMED BARS, FREE FROM OIL, SCALE, AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF THE ACI STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL SUBMIT REBAR SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. HORIZONTAL AND VERTICAL BARS SHALL LAP 6 x BAR NO., SEE LAP SPLICE SCHEDULE. UNSCHEDULED FIELD LAPS ARE SUBJECT TO ENGINEER'S REVIEW.

		PLAN REINFOI	RCEMENT			
	MASONRY	OTHER THAN	TOP BARS	TOP BARS		
BAR #	SPLICE LENGTH	(3000 PSI)	(4000 PSI)	(3000 PSI) (4000 PSI)		
3	_	16"	16"	21"	18"	
4	24"	22"	19"	28"	24"	
5	30"	27"	23"	35"	30"	
6	36"	35"	31"	46"	40"	
7	42"	48"	42"	6.3"	54"	

PROVIDE 36" x 36" CORNER BARS, BOND BEAM ONLY, LAPPED AND TIED TO EACH BEAM REBAR, SEE DETAILS FOR ADDITIONAL INFORMATION.

ALL BLOCK WALLS SHALL BE TWO-CELL HOLLOW CONCRETE MASONRY REGULAR SIZE BLOCK MANUFACTURED IN CONFORMANCE WITH ASTM C-90, GRADE N, f'm = 1500 psi. BLOCK SHALL BE PLACED USING RUNNING BOND UNLESS OTHERWISE NOTED. LAY-UP MASONRY WALLS TO BOTTOM OF TIE BEAMS BEFORE PLACING CONCRETE FOR IN-WALL COLUMNS. GROUT USED TO FILL MASONRY CELLS SHALL COMPLY WITH ASTM C-476, AND SHALL PROVIDE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 psi AT 28 DAYS. THE GROUT MIX SHALL HAVE A MAXIMUM 3/8" COARSE AGGREGATE, AND SHALL BE PLACED WITH A SLUMP OF 8" TO 10". PLACE GROUT IN ACCORDANCE W/ ACI 530-05. TYPE S MORTAR SHALL BE USED EXCLUSIVELY ON THIS PROJECT. MORTAR SHALL BE PROPORTIONED AND MIXED AS OUTLINED UNDER ASTM C-270. HORIZONTAL AND VERT. MORTAR JOINTS SHALL BE 3/8" THICK UNLESS OTHERWISE NOTED. REMOVE MORTAR PROTRUSIONS THAT EXTEND INTO CELLS TO BE FILLED.

WHEN REQUIRED, HORIZONTAL MORTAR JOINTS SHALL BE REINFORCED WITH STANDARD 9 GAGE LADUR-TYPE DUR-O-WAL (ASTM CLASS B-2, HOT-DIPPED GALVANIZED) AT ALTERNATE COURSES (16" ON CENTER), UNLESS OTHERWISE NOTED. JOINT REINFORCEMENT SHALL BE CONTINUOUS AND SHALL LAP A MINIMUM 8".

LAP VERTICAL REBAR 6 x BAR NO., U.O.N.

TO BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE "NATIONAL DESIGN SPEC-SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN FLORIDA. SEE NOTES FOR SHOP DRAWINGS.

HANDLING, ERECTION AND BRACING OF TRUSSES SHALL BE IN ACCORDANCE WITH TRUSS PLATE INSTITUTE RECOMMENDATIONS TPI'S TPI/WTCA BCSI 1.

HURRICANE STRAPS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

CONTRACTOR SHALL SUBMIT SIGNED AND SEALED DRAWINGS OF ALTERNATE CONNECTION DETAILS AT TRUSSES/GIRDERS TO COLUMNS AND WALLS FOR APPROVAL.

USED TO FACILITATE DESIGN OF FOUNDATIONS. WALLS, AND BEAMS, THE CONTRACTOR SHALL SUBMIT TRUSS SHOP DRAWINGS FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO FABRICATION. THE TRUSS FABRICATOR SHALL PROVIDE ENGINEERED SHOP DRAWINGS OF EACH INDIVIDUAL TRUSS AND A FULLY DIMENSIONED ERECTION PLAN SHOWING COMPONENT LAYOUT. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A FLORIDA LICENSED

THE HURRICANE STRAPS SPECIFIED ON THE WALL SECTIONS AND PLANS ARE PROVIDED TO FACILITATE THE CONSTRUCTION SCHEDULE, AND MAY CHANGE PREDICATED ON THE TRUSS AND GIRDER REACTIONS PROVIDED BY THE TRUSS ENGINEER.

THOSE OF THE DELEGATED TRUSS ENGINEER. WIND UPLIFT VALUES HAVE BEEN BASED ON ASCE 7-05 COMPONENT AND CLADDING WIND LOAD PRESSURES. THE DELEGATED TRUSS ENGINEER SHALL BE RESPONSIBLE FOR ALL TRUSS TO TRUSS CONNECTIONS.

ALL WOOD FOR BEAMS, BEARING WALLS, SOLE PLATES, TOP PLATES, BLOCKING, BRACING, LEDGERS CRIPPLES, SILLS, ETC., SHALL BE SOUTHERN PINE NO. 2, KD-15, OR BETTER. Fb = 1200 PSI. ALL WOOD IN CONTACT WITH CONCRETE OR CONCRETE BLOCK SHALL BE PRESSURE TREATED. WOOD FOR NON-STRUCTURAL USES SHALL BE RATED TO RETENTION LEVELS OF 0.25 PCF OF A BORATE PRESERVATIVE TREATMENT: DISODIUM OCTOBORATE TETRAHYDRATE (DOT). WOOD FOR STRUCTURAL USE THAT SHALL BE TREATED FOR ANY REASON SHALL BE RATED TO RETENTION LEVELS OF 0.42 PCF OF DOT OR MORE. NAILS, SPIKE, BOLTS USED W/ DOT SHALL BE HOT DIPPED GALV. FOR STRUCTURAL USES, AVOID BUYING TREATED LUMBER THAT CONTAINS MORE THAN 1/2" OF HEARTWOOD.

TENSION LAP SPLICE SCHEDULE DI ANI DEINICODOCEMENT

MASONRY CONSTRUCTION AND MATERIALS SHALL CONFORM WITH ALL REQUIREMENTS OF THE "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1-05/ASCE 6-05/TMS 602-05). AS PUBLISHED BY THE MASONRY STANDARDS JOINT COMMITTEE.

WOOD TRUSSES

IFICATIONS FOR STRESS-GRADE LUMBER AND ITS FASTENINGS" BY THE NFPA. TRUSS DESIGNS

CONNECTOR PLATES SHALL BE A MINIMUM THICKNESS OF 0.036" AND BE MANUFACTURED FROM STEEL MEETING THE REQUIREMENTS OF ASTM A446, GRADE A, AND SHALL BE HOT-DIPPED GALVANIZED.

THE LOCATIONS OF GIRDERS AND TRUSSES SHOWN ON THE ROOF FRAMING PLAN WERE PROFESSIONAL ENGINEER.

THE TRUSS TO STRUCTURE CONNECTIONS AND LOADS SPECIFIED ON THIS PLAN SHALL SUPERCEDE

WHEN A USP HLPTA75 IS SPECIFIED IN A BOND BEAM WITH A SINGLE #5, UPLIFT IS BASED UPON RATIONAL ANALYSIS AND MANUFACTURER'S INFORMATION HURRICANE STRAPS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.

■ FLORIDA BLDG CODE 2014 W/ SUPPLEMENTS ■ FLORIDA EXIST. BLDG CODE 2014

■ FLORIDA FIRE PREV CODE 2012

5TH EDITION

■ NEC 2011

CODE

Revisions:

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