

**CONTRACTOR INSURANCES:**

1. INSURANCE: BEFORE INITIATING ANY WORK AT SITE, CONTRACTOR(S) SHALL PROVIDE PROOF OF INSURANCE, INCLUDING COMMERCIAL GENERAL LIABILITY, WORKMEN'S COMPENSATION AND AUTOMOBILE LIABILITY. MINIMUM LIMITS SHALL BE AS FOLLOWS:

COMMERCIAL GENERAL LIABILITY	GENERAL AGGREGATE	\$ 1,000,000.00
	PRODUCTS - COMP / OP AGGREGATE	\$ 1,000,000.00
	EACH OCCURRENCE	\$ 1,000,000.00
	FIRE DAMAGE (ANY ONE FIRE)	\$ 100,000.00
	MED. EXPENSE (ANY ONE PERSON)	\$ 5,000.00
AUTOMOBILE LIABILITY	SINGLE COMBINED LIMIT	\$ 250,000.00
WORKMAN'S COMPENSATION	STATUTORY LIMITS	
GENERAL "UMBRELLA"		\$ 2,000,000.00

2. OWNER AND ARCHITECT SHALL BE NAMED AS "ADDITIONAL NAMED INSURED" ON CONTRACTOR'S LIABILITY POLICIES. OWNER AND ARCHITECT SHALL BE GIVEN 30 DAYS NOTICE BEFORE ANY POLICIES EXPIRE, AND CERTIFICATES EVIDENCING SUCH COVERAGE AND INCLUSION OF THE OWNER AND ARCHITECT SHALL BE PROVIDED TO BOTH.

**GENERAL NOTES:**

- PROJECT GUARANTEE: THE CONTRACTOR(S) AND ALL SUBCONTRACTORS UNDER HIS RESPONSIBILITY SHALL GUARANTEE ALL WORKMANSHIP AND MATERIAL FOR A MINIMUM OF ONE YEAR AFTER DATE OF SUBSTANTIAL COMPLETION. WITHIN THE ONE-YEAR GUARANTEE PERIOD, THE CONTRACTOR SHALL REMAIN RESPONSIBLE TO THE OWNER FOR PROMPT AND DILIGENT REPAIR OR REPLACEMENT OF FAILED MATERIALS AND OR WORKMANSHIP. COMPONENTS, EQUIPMENT AND INSTALLATIONS THAT ARE PROTECTED WITH EXTENDED MANUFACTURER'S WARRANTIES SHALL BE IDENTIFIED TO THE OWNER. THE OWNER SHALL RECEIVE RECEIPTS AND VALIDATED WARRANTY REGISTRATIONS DEMONSTRATING THESE EXTENDED PROTECTIONS. TITLE TO ALL EQUIPMENT AND COMPONENTS WITH WARRANTIES SHALL BE MADE IN THE OWNER'S NAME.
- QUALITY OF WORKMANSHIP AND MATERIALS: THE CONTRACTOR(S) AGREES HE SHALL ENGAGE WORKMEN EXPERT IN THEIR RESPECTIVE TRADES WHOSE WORK SHALL COMPLY WITH THE HIGHEST STANDARDS OF THEIR RESPECTIVE TRADE ASSOCIATIONS. IT IS UNDERSTOOD THE ARCHITECT HAS NOT DETAILED OR SPECIFIED ALL ASPECTS OF THE WORK WHICH ARE A "COMMONLY UNDERSTOOD CONSTRUCTION PRACTICE". IF INTERPRETATIONS OR CLARIFICATIONS ARE REQUIRED, THE CONTRACTOR(S) SHALL SECURE SUCH INFORMATION FROM THE ARCHITECT OR THE OWNER BEFORE PROCEEDING.
- CONSTRUCTION DEBRIS: ALL CONSTRUCTION MATERIAL DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE GC. DAILY CLEANUP SHALL BE IN CONTAINERS OR DUMPSTERS MAINTAINED BY THE GC. DO NOT BURY OR BURN ANY MATERIAL AT THE SITE.
- SITE SAFETY: THE GENERAL CONTRACTOR GAINS COMPENSATION FOR ORGANIZING AND EXECUTING THE WORK AT THE SITE. THUS, THE GC IS RESPONSIBLE FOR ALL SITE SAFETY PRECAUTIONS AND ALL SITE SUPERVISION.

**BEFORE YOU DIG: CALL THE PA "ONE CALL SYSTEM"**

- STOP! BEFORE YOU DIG IT IS MANDATORY TO CALL THE PENNSYLVANIA "ONE CALL SYSTEM." 1-800-242-1776. ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, SHOULD MAKE THEIR OWN NOTIFICATION. NOTE, THE ONLY PARTY PROTECTED BY THE NOTIFICATION IS THE CALLER.

**DIMENSIONS: DO NOT SCALE DRAWINGS:**

- ALL DIMENSIONS ARE GIVEN TO "FACE OF MASONRY" OR "FACE OF STUD". CHECK ALL DIMENSIONS BEFORE PROCEEDING. FOR "CLEAR" OPENINGS BETWEEN FINISHES, SUBTRACT FINISH THICKNESS FROM DIMENSIONS GIVEN. LOOK FOR THE CORRECT DIMENSIONAL INFORMATION, OR SEEK CLARIFICATION FROM THE ARCHITECT.

**FIELD CHANGES:**

- THE ARCHITECT HAS NO AUTHORITY TO MAKE IMPROMPTU CHANGES IN THE FIELD. ALL PROPOSED CHANGES OR SUBSTITUTIONS, WITHOUT EXCEPTION, SHALL BE SUBMITTED IN WRITING, WITH SUPPORT MATERIALS, FOR AUTHORIZATION.
- WHEN CHANGES AFFECT THE STRUCTURAL OR BUILDING SHELL, THOSE CHANGES SHALL BE DIRECTED TO THE ARCHITECT PROMPTLY IN WRITING FOR REVIEW AND APPROVAL.

**ADA STANDARDS: (AMERICANS WITH DISABILITIES ACT)**

- ALL FACILITIES SHALL BE MADE "ACCESSIBLE AND USABLE" BY THE GENERAL PUBLIC, INCLUDING PERSONS WITH "HANDICAPS OR DISABILITIES." THE PERSONS WITH POSSIBLE DISABILITIES INCLUDE BUILDING OWNERS, EMPLOYEES, CUSTOMERS, VISITORS, ETC. IN SHORT, EVERYONE.
- THE REGULATIONS COVER ALL COMMON USES, INCLUDING OFFICES, BUSINESS, RETAIL, MERCANTILE, COMMERCIAL, INDUSTRIAL, AND INSTITUTIONAL. THE ONLY EXCLUSIONS ARE SINGLE FAMILY DETACHED RESIDENTIAL HOMES, AND THEN SOME RULES MAY APPLY THROUGH ZONING REGULATIONS.
- "ACCESSIBILITY" STARTS WITH ARRIVAL ONTO THE PROPERTY, AND TERMINATES WITH EMERGENCY EXIT FROM BUILDINGS. IT COVERS EVERYTHING IN BETWEEN.
- THE RULES ARE PUBLISHED BY: AMERICAN NATIONAL STANDARD: ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, 2003. ICC/ANSI A117.1-2003
- ALL CONTRACTORS ARE REQUIRED TO HAVE ICC/ANSI A117.1-2003 ON SITE AT ALL TIMES DURING THE WORK. IT IS HIGHLY RECOMMENDED FOR ALL BUILDING OWNERS AND FACILITY MANAGERS.

**CAULKING**

- PERMITTED MATERIALS: ALL EXTERIOR CAULKING SHALL BE TWO-PART POLYURETHANE COMPONENT BASED. NO SILICONE CAULKS ARE PERMITTED UNLESS THE APPLICATION IS FOR A "GLASS TO GLASS" ADHESIVE. ALL CAULKS USED IN PREPARATION FOR INTERIOR PAINTING SHALL BE POLYURETHANE OR LATEX, WITH NO SILICONES.
- WHERE TO APPLY: CAULKING SHALL BE PROVIDED:
- BETWEEN ALL EXTERIOR DISSIMILAR MATERIALS WHERE A MECHANICAL CONNECTION DOES NOT MAKE A WATERTIGHT SEAL.
- AROUND THE PERIMETERS OF ALL DOORS AND WINDOWS BETWEEN SURROUNDING FINISH SURFACES.

**CONCRETE WORK**

- CODES AND STANDARDS: ACI-318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI-301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI-347, "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK", ACI-304, "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE", READY MIX CONCRETE SHALL BE IN ACCORDANCE WITH ASTM C-94.
- COMPRESSIVE STRENGTH OF CONCRETE 3,000 PSI AT 28 DAYS. MAX. SLUMP OF ALL CONC. SHALL BE 4". IN LIEU OF TESTING, CONTRACTOR SHALL PROVIDE CERTIFIED MIX RECEIPTS, DELIVERED TO OWNER.
- WHEN PLACING INTERIOR CONCRETE SLABS, DO NOT PUNCTURE THE VAPOR BARRIER. BE CAREFUL WITH CURING BECAUSE VIRTUALLY NO WATER WILL BE LOST TO THE SUBGRADE.
- USE AIR-ENTRAINING ADMIXTURE IN ALL CONCRETE THAT IS EXPOSED TO FREEZING AND THAWING, PROVIDING NOT LESS THAN 4% NOR MORE THAN 6% ENTRAINED AIR.
- NO CONCRETE SLABS OR FOOTINGS SHALL BE PLACED UNTIL SUBGRADE PREPARATION IS INSPECTED AND APPROVED BY THE MUNICIPALITY.
- FINISHES: EXPOSED TO VIEW VERTICAL SURFACES SHALL HAVE A RUBBED FINISH IN ACCORDANCE WITH ACI-301. FLOOR SLABS SHALL HAVE A STEEL TROWEL FINISH. EXTERIOR WALKWAYS TO HAVE BROOM FINISH.

**BELOW SLAB VAPOR BARRIERS**

- ALL VAPOR BARRIERS SHALL BE PLACED ON THE PREPARED SUBGRADE, BELOW INSULATION. TOP V.B. SHALL BE EXTENDED UP EDGES TO BE VISIBLE ABOVE THE SLAB. REMOVE EXCESS AFTER SLAB HAS CURED. FOR THE V.B. TO PERFORM AS A GOOD GAS BARRIER ALL PENETRATIONS SHALL BE SEALED AND ALL JOINTS LAP SPLICED A MINIMUM OF 6-INCHES, AND TAPED PER MFG. RECOMMENDATIONS.
- PRODUCT SHALL BE A HIGH QUALITY POLYETHYLENE PLASTIC, AT LEAST 8-MILS THICK. THE MINIMUM PERM RATING SHALL BE "CLASS 1" VAPOR RETARDER, PERM RATING OF 0.10 OR LESS, CONFORMING TO ASTM E96. MEMBRANE SHALL MEET ASTM E-1745.

**CONCRETE SEALER**

- CONCRETE SEALER FOR ALL HORIZONTAL INTERIOR AND EXTERIOR SLABS WHERE INDICATED SHALL BE "SEALTIGHT INTX" BY W.R. MEADOWS, INC., P.O. BOX 543, ELGIN, ILLINOIS 60121, (312)683-4500.
- INTX IS A NON-YELLOWING WATER BASE ACRYLIC CURING AND SEALING COMPOUND. APPLICATION SHALL BE TWO COATS, PER MANUFACTURER'S RECOMMENDATIONS WITH MINIMUM OF 24 HOURS BETWEEN COATS. APPLICATOR SHALL PROVIDE THE ARCHITECT WITH RECEIPT SHOWING THE QUANTITY OF MATERIAL SUPPLIED TO THE SITE.

**FOOTING PLACEMENT FOR FOUNDATION WALLS**

- BOTTOMS OF ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOILS CAPABLE OF SUPPORTING THE ASSUMED DESIGN LOAD OF 3,000 PSF. THE CONTRACTOR SHALL EXAMINE AND VERIFY THE SOIL CONDITIONS BEFORE ALLOWING CONCRETE FOOTINGS AND FOUNDATIONS TO BE INSTALLED. IF SOILS EXHIBIT A LESSEER VALUE, NOTIFY THE ARCHITECT IMMEDIATELY, AS THE FOUNDATION DESIGN MUST BE RE-EVALUATED AND POSSIBLY REDESIGNED.
- THE SOIL IN THE TRENCHES FOR ALL FOOTINGS SHALL BE INSPECTED BY A MUNICIPAL OFFICIAL BEFORE ANY FOOTINGS ARE PLACED. PROVIDE INSPECTION CERTIFICATE.
- THE BOTTOM ELEVATION SHOWN FOR ALL FOOTINGS IS THE MINIMUM, AND SHALL BE NO LESS THAN 36 INCHES BELOW FINAL EXTERIOR GRADE. SOIL CONDITIONS MAY REQUIRE ADDITIONAL DEPTH.
- ALL FOOTING EXCAVATIONS FOR FOUNDATION WALLS ENCLOSING CRAWLSPACES OR OTHER OCCUPIED SPACE SHALL BE MADE WIDE ENOUGH TO ALLOW FOR THE PLACEMENT OF FOUNDATION DRAINAGE PIPING AND DRAINAGE STONE BELOW THE TOP OF THE FOOTING AND THUS MUST BE "FORMED" AS A MINIMUM ON THE EXTERIOR SIDE.
- FOOTINGS AND SLABS SHALL NOT BE PLACED ON FROZEN SOILS.
- FOOTING CONCRETE SHALL BE MINIMUM 3,000 PSI DESIGN MIX @ 28 DAYS. IN LIEU OF TESTING, CONCRETE SUPPLIER SHALL PROVIDE MIX CERTIFICATE TO CONTRACTOR FOR DELIVERY TO OWNER.
- WHERE PIPES PASS THROUGH A FOOTING, THE FOOTING SHALL BE MINIMUM OF 12 INCHES THICK SOLID BELOW, STEP AS REQUIRED, INSTALL SLEEVE SIZED TO BE PIPE DIAMETER PLUS 2 INCHES.
- FOOTING TO FOUNDATION WALL ANCHORAGE: INSTALL HOOKS FORMED FROM #4 DEFORMED REINFORCING BARS. VERTICAL LEG SHALL BE 20 INCHES LONG, AND HOOK SHALL BE 6-INCHES. BOTTOM OF HOOK SHALL BE 3 INCHES FROM BOTTOM OF FOOTING. INSTALL NOT MORE THAN 12 INCHES FROM ANY CORNER (BOTH SIDES) AND THEN NOT MORE THAN 48 INCHES ON CENTER FOR ENTIRE LENGTH OF WALLS. ALIGN HOOKS TO BE CENTERED IN FOUNDATION THICKNESS AND IN BLOCK CORES IF CMU WALLS.

**UNIT MASONRY**

- CONCRETE MASONRY UNIT (CMU) CONSTRUCTION AND MATERIALS SHALL CONFORM TO ALL REQUIREMENTS OF "SPECIFICATIONS FOR MASONRY STRUCTURES (ACI 530.1/ASCE 6-88)" PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE.
- HOLLOW LOAD BEARING CMU SHALL CONFORM TO ASTM C90, TYPE 1, "NORMAL WEIGHT", MINIMUM NET TENSILE STRENGTH OF 1250 PSI; 0.06% MAXIMUM LINEAR SHRINKAGE FROM SATURATED TO OVEN DRY; CURE 28 DAYS. PROVIDE MANUFACTURER'S CERTIFICATE OF COMPLIANCE FOR UNITS PROVIDED TO SITE.
- MORTAR TO BE TYPE S, CONFORMING TO ASTM C270. MORTAR SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS.
- INSTALL 9 GA. DUROWALL TRUSS TYPE JOINT REINFORCEMENT @ 16" O.C. VERTICALLY (EVERY OTHER COURSE), ALL CMU WALLS.
- GROUT FOR CELLS SHALL CONFORM TO ASTM C476, 3000 PSI COMPRESSIVE STRENGTH. GROUT CELLS SOLID AT REINFORCING AND AS NOTED IN MAX. 48-INCH LIFTS.
- CMU CELLS WITH REINFORCEMENT SHALL BE FILLED SOLID TOP TO BOTTOM WITH CONCRETE, PUMP MIX, OR EQ., MAX. 48-INCH LIFTS.
- WHERE PIPES OR WIRE PASS THROUGH A FOUNDATION WALL, INSTALL SLEEVE MINIMUM OF PIPE OR WIRE DIAMETER PLUS 2 INCHES.
- REINFORCING BARS SHALL BE "DEFORMED" CONFORMING TO ASTM A615; GRADE-40 FOR #3 BARS, GRADE-60 FOR #4 AND LARGER BARS. "LAP JOINT" ALL REINFORCING BARS 30 BAR DIAMETERS MINIMUM. CORNER BARS FOR CONTINUOUS REINFORCING SHALL BE LAPPED MINIMUM 30 BAR DIA. EACH WAY.
- DO NOT BACKFILL AGAINST FOUNDATION WALLS WITHOUT APPROPRIATE BRACING AND SHORING, OR UNTIL ALL FRAMING IS COMPLETE, INCLUDING THE ROOF.
- COMPACT BACKFILL BEHIND FOUNDATION WALLS TO MINIMUM OF 90% DENSITY, IN APPROPRIATE LIFTS. ALL BACKFILL MATERIAL SHALL BE FREE OF ORGANIC OR OTHER DETRIMENTAL MATERIAL.
- DAMP-PROOFING (WHERE SHOWN): THE SUBSTRATE SHALL BE MADE SMOOTH AND ACCEPTABLE FOR THE APPLICATION. GENERALLY IF CMU (CONC. BLOCK) APPLY A 1/2" THICK CEMENT PARING. THEN APPLY TWO COATS OF AN ASPHALTIC COATING. COATS SHALL BE APPLIED FROM OPPOSITE DIRECTIONS TO ENSURE THE FILLING OF THE SUBSTRATE. FOLLOW MANUFACTURER'S DIRECTIONS. PRODUCT W.R. MEADOWS "SEALMASTIC EMULSION", EACH COAT 1/16" WET FILM THICKNESS.
- DO NOT APPLY CONCENTRATED LOADS FOR AT LEAST 3 DAYS AFTER BUILDING MASONRY WALLS. DO NOT APPLY UNIFORM FLOOR OR ROOF LOADS FOR AT LEAST 12 HOURS AFTER BUILDING MASONRY WALLS.

**MASONRY WATER REPELLENT: FOR VERTICAL SURFACES**

- USE PRIME-A-PELL H2O SERIES 633 AS MFG BY TNEVEC CO. PRODUCT IS A SILOXANE/SILANE BLEND, RESISTANT TO ULTRAVIOLET AND WATER DETERIORATION.
- APPLY 2 COATS, FROM OPPOSITE DIRECTIONS, PER MFG RECOMMENDATIONS. MAX. 5 MINUTES BETWEEN APPLICATIONS, BE AWARE, IF FIRST COAT CURES, IT WILL REJECT SECOND.

**WOOD FRAMING "BASIC"**

- STANDARDS: ALL ROUGH CARPENTRY TO COMPLY WITH "MANUAL OF HOUSE FRAMING" BY NATIONAL FOREST PRODUCTS ASSOC., THE 2006 ICC RESIDENTIAL CODE, AND WITH RECOMMENDATIONS OF AMERICAN PLYWOOD ASSOC.
- STRUCTURAL LUMBER (WALL STUDS, FLOOR CEILING JOISTS) OF NOMINAL 2" THICKNESS SHALL BE KILN DRIED (MAX. 19% MOISTURE CONTENT) #2 HEM-FIR WITH MIN. FB 1,200.
- ALL WOOD, IN PARTICULAR SILL PLATES, IN CONTACT WITH MASONRY SHALL BE PRESSURE TREATED. ALL CONNECTORS IN CONTACT WITH PRESSURE TREATED WOOD TO BE STAINLESS STEEL OR HEAVY HOT DIPRED GALVANIZED.
- THE JOINT BETWEEN MASONRY FOUNDATION WALL AND WALL SILL PLATES SHALL RECEIVE POLYPROPYLENE FOAM SILL PLATE INSULATION.
- THE JOINT BETWEEN MASONRY WALL AND RAFTER SILL PLATES SHALL RECEIVE POLYPROPYLENE FOAM SILL PLATE INSULATION.
- IF EXISTING DIAGONAL "BRIDGING" IS FOUND, THEN REPLACE WITH SOLID BLOCKING AS DESCRIBED ABOVE.
- ALL RAFTERS TO BE SOLIDLY BLOCKED ALONG THE TOP PLATE OF EXTERIOR WALLS.
- ROOF SHEATHING: SHALL BE EXTERIOR GRADE PLYWOOD, MIN. 5/8" THICK. SEE NOTES ABOUT RADIANT BARRIERS. NAIL SAME AS WALL SHEATHING. PROVIDE TWO (2) SIMPSON STRONG-TIE "PSCL" SHEATHING CONTINUITY CLIPS IN EACH RAFTER BAY AT JOINTS BETWEEN SHEATHING.

**WOOD FRAMING & "CONTINUOUS LOAD PATH" ANCHORAGE**

- R301.1 THE CONSTRUCTION OF BUILDING AND STRUCTURES SHALL RESULT IN A SYSTEM THAT PROVIDES A COMPLETE LOAD PATH CAPABLE OF TRANSFERRING ALL LOADS FROM THEIR POINT OF ORIGIN THROUGH THE LOAD-RESISTING ELEMENTS TO THE FOUNDATION.
- THE CONTINUOUS LOAD PATH ANCHORAGE REQUIREMENTS ARE THIS BUILDING CODE'S METHOD OF ACHIEVING A MINIMUM, FIELD-OBSERVABLE, BUILDING FRAME "STIFFENING" AND "ANCHORAGE" SYSTEM. THE GOAL IS SAFER STRUCTURES, BETTER ABLE TO RESIST POTENTIAL LOCAL WIND AND SEISMIC ACTIVITY. THE BASIC CONCEPT USES A CONTINUOUS "LINE" OF BUILDING ELEMENTS, SUCH AS WALL STUDS, AND MECHANICAL ANCHORS LINKING THE ROOF RIDGES TO FOUNDATION WALL FOOTING. IMAGINE IT LIKE A BIG TENT, WITH "GUY WIRES" FROM THE ROOF RIDGE TO THE GROUND.
- IT IS UNDERSTOOD FOR MOST BUILDINGS, A CONSISTENT RHYTHM OF COMPLETELY LINEAR LINES OF CONNECTIVITY CANNOT BE ACHIEVED BECAUSE THINGS GET IN THE WAY, SUCH AS DOORS AND WINDOWS. HOWEVER, THE CODE DESCRIBES AN "INTENT". IT IS THE CONTRACTOR'S RESPONSIBILITY TO INTERPRET AND MAKE EVERY REASONABLE EFFORT TO ACHIEVE THE GOAL BY USING THE COMPONENTS DESCRIBED, IN THE QUANTITIES PRESCRIBED, AND IN THE LOCATIONS BEST SUITED.

**MINIMUM INSULATION REQUIREMENTS:**

- THIS BUILDING USE IS "STORAGE". IN PARTICULAR THIS BUILDING IS INTENDED TO BE NON-OCCUPIED, INFREQUENTLY ACCESSED, DEAD STORAGE.
- IT IS NOT HEATED OR COOLED, THERE IS NO REQUIREMENT FOR INSULATION.

**REPLACEMENT DOORS**

MAN DOORS TO BE INSULATED, HEAVY DUTY, HOLLOW METAL PAINT. OVERHEAD GARAGE DOORS TO BE INSULATED HEAVY DUTY STEEL, SECTIONAL, PAINT HARDWARE AND SECURITY: MAKE INTRUSION RESISTANT. REMEMBER THIS IS LONG TERM, NOT WELL MONITORED SPACE. HINGES: ALL DOORS TO RECEIVE 1-1/2 PAIRS (3) BALL BEARING HINGES PANIC EXIT DEVICES: SHALL BE AS MANUFACTURED BY ADAMS RTE, STARWHEEL BOLT, RIM EXIT DEVICE, NARROWLINE SERIES 8800 IN SATIN STAINLESS STEEL. EXTERIOR TRIM SHALL BE FUNCTION 08, LEVER SET WITH KEY LOCK, "NIGHT LATCH" FEATURE. FINISH: FOR ALL HARDWARE BRUSHED CHROME OR STAINLESS STEEL.

**RADIANT BARRIER**

- RADIANT BARRIERS ARE REFLECTIVE FILMS, PAINTS, MEMBRANES, ETC., WITH THE PURPOSE OF REFLECTING AWAY FROM A SURFACE THE SUN'S RADIANT (HEAT) ENERGY. INSTALLED IN BUILDINGS, MANUFACTURERS ARE CLAIMING SIGNIFICANT ENERGY SAVINGS, ESPECIALLY FOR COOLING COSTS.
- PAINT PRODUCT OPTION: SHERWIN WILLIAMS "E-BARRIER." APPLY PER MANUFACTURER'S RECOMMENDATIONS. DO CAREFUL COORDINATION WITH THE LOCAL REPRESENTATIVE SURFACE COVERAGE DOES NOT HAVE TO BE PERFECT. ACHIEVE BEST COVERAGE AS IS PRACTICAL. THIS IS A SOFT METALLIC FINISH, AND SPRAY FOAMS WILL ADHERE. SPRAY TO THE UNDERSIDE OF ALL ROOF SHEATHING.
- NOTE: THERE ARE OPTIONS SUCH AS A METAL ROOF WITH "COOL PAINT." ALSO, THE PREMIER FIBERGLASS SHINGLE MANUFACTURERS HAVE "REFLECTIVE" PRODUCTS.

**PLUMBING:**

NONE

**HEATING / COOLING SYSTEMS**

NONE

**HEAT EXTRACTION FANS**

- SEE DRAWING: SIMPLE ROOF MOUNTED, SOLAR POWERED. BALANCE EXHAUST AIR WITH SIMPLE WALL INSTALLED STORM PROOF LOUVERS. EXHAUST FANS TO BE CONTROLLED BY INTERIOR THERMOSTATS. EACH FAN TO BE MIN. 400 CFM, EACH INLET LOUVER TO BE MIN. 600 CFM. ALL SIMILAR TO POWER VENTING A COMMON ATTC.

**ELECTRICAL SYSTEM NOTES:**

- LICENSED ELECTRICIANS SHALL DO ALL WORK IN ACCORDANCE WITH THE LOCAL AND NATIONAL ELECTRICAL CODE. ELECTRICIAN SHALL PROVIDE AN UNDERWRITER'S CERTIFICATE AT THE CONCLUSION OF WORK.
- ELECTRICIAN SHALL COMPLETE HIS PART OF THE BUILDING PERMIT APPLICATION. IF MUNICIPALITY REQUIRES LOAD CALCULATIONS OR DIAGRAMS, THEN ELECTRICAL CONTRACTOR SHALL PROVIDE.
- THE MINIMUM WIRE SIZE FOR RECEPTACLES SHALL BE 12 GA., THE MINIMUM WIRE SIZE FOR LIGHTING SHALL BE 14 GA., ALL COPPER. ALL CIRCUITS SHALL BE GROUNDED.
- LAMPING: ALL NEW FIXTURES SHALL HAVE THE APPROPRIATE LAMP INSTALLED.
- ALL WORK AND MATERIALS TO BE NEW.
- MAKE THIS INSTALLATION SIMPLE, CLEAR, CLEAN AND SAFE.
- THE ELECTRICIAN SHALL DO ALL CIRCUIT & LOAD DISTRIBUTION DESIGN. DISTRIBUTION PANEL SHALL BE CLEARLY LABELED. SEPARATE POWER CIRCUITS FROM LIGHTING CIRCUITS. DO NOT MAXIMIZE CIRCUIT CAPACITY, INSTEAD MAXIMIZE CLARITY OF ORGANIZATION FOR THE OWNER.
- FOR OWNER'S APPROVAL, BEFORE WORK BEGINS, SUBMIT CATALOG CUTS FOR ALL FIXTURES, APPLIANCES, DEVICES, SWITCHES, ETC.
- ALL HOLES DRILLED INTO TOP OR BOTTOM WALL PLATES, INTERIOR AND EXTERIOR, SHALL BE SEALED. USE EXPANDABLE FOAM TO PREVENT VERTICAL PASSAGE OF AIR.

**DATA & SECURITY WIRING:**

- COORDINATE WITH OWNER, MAY WANT TO CONNECT TO MAIN STORE WITH HARD CABLE OR WIRELESS.
- LISTEN TO WHAT OWNER WANTS. OFFER INTELLIGENT DESIGN BUILD PROPOSALS. NEGOTIATE. WHEN ACCEPTED, SECURE ALL PERMITS REQUIRED, IF ANY.

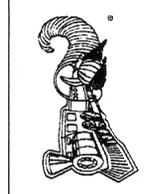
**SMOKE DETECTOR SYSTEM:**

- SEE DRAWINGS FOR TYPES AND LOCATIONS OF DEVICES. LOCATIONS SHOWN ARE THE GENERALLY PERCEIVED MINIMUM TO SECURE A BUILDING PERMIT. MANY MUNICIPALITIES HAVE ADDED SPECIAL LOCAL AMENDMENTS NOT PUBLISHED IN THE NATIONAL CODES. THEREFORE, THE LOCAL PLAN REVIEWER MAY REQUIRE ADDITIONAL LOCATIONS AND REQUIREMENTS.
- SYSTEM SPECIFICATIONS: DETECTORS MUST BE HARDWIRED TO A CONSTANT POWER SOURCE AND MUST BE ELECTRONICALLY INTERCONNECTED, SO THAT IF ANY DETECTOR SENDS AN ALARM SIGNAL, THEN ALL DETECTORS THROUGHOUT BUILDING SOUND THE ALARM. DETECTORS SHALL HAVE AN EMERGENCY BACKUP POWER SOURCE, GENERALLY BATTERIES. SYSTEMS ARE AVAILABLE USING EITHER 100V DEDICATED LINE VOLTAGE CIRCUITS OR LOW VOLTAGE.
- LISTEN TO WHAT OWNER WANTS, INFORM OWNER REGARDING CODE. OFFER INTELLIGENT DESIGN BUILD PROPOSALS. NEGOTIATE, AND WHEN ACCEPTED, SECURE ALL REVIEWS AND PERMITS REQUIRED FOR SYSTEM.

DATE	REVISION DESCRIPTION
04-27-2011	
07-29-2011	
12-29-2011	

PLAN INVALED UNLESS AFFIXED WITH EMBOSSED SEAL & RED SIGNATURE

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 BOROUGH OF HATBORO