PINELLAS COUNTY HOUSING AUTHORITY

RESIDENTIAL RENOVATION

12065 134 TH PLACE NORTH- LARGO, FL 33778

JURISDICTION: PINELLAS COUNTY

VICINITY MAP

AREA MAP

12065 134TH PLACE - LARGO, FL 33778 — 1

GENERAL PROJECT NOTES

1. DO NOT SCALE DRAWINGS. DIMENSIONS SHOWN ARE TO FINISH FACE UNLESS NOTED OTHERWISE. ALL DIMENSIONS SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL TRADES AND WORK. IF DISCREPANCIES ARE FOUND, NOTIFY THE ARCHITECT.
2. CONSULTANT DRAWINGS ARE SUPPLEMENTAL TO THE CONTRACT DOCUMENTS. COORDINATE THE DRAWINGS AND SPECIFICATIONS PRIOR COMMENCEMENT OF WORK
3. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PERMITS AND INSPECTIONS. FEES ASSOCIATED WITH, BUT NOT NORMALLY COVERED BY THESE ITEMS, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR
4. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION AND SERVICES NECESSARY FOR THE SATISFACTORY COMPLETION OF WORK UNLESS DESIGNATED AS "NOT IN CONTRACT" (N.I.C.) OR "OWNER FURNISHED, OWNER INSTALLED" (O.F.O.I). ALL EQUIPMENT, WORK AND MATERIALS SHALL COMPLY WITH ALL CURRENT AND LOCAL APPLICABLE CODES AND GOVERNING EGULATIONS, AND THE CONTRACT DOCUMENTS
5. THE CONTRACTOR SHALL PROTECT ALL FINISH WORK AND SURFACES FROM DAMAGE DURING THE COURSE OF CONSTRUCTION AND SHALL REPLACE AND/OR REPAIR ALL DAMAGED SURFACES CAUSED BY CONTRACTOR OR SUBCONTRACTOR PERSONNEL TO THE SATISFACTION OF THE OWNER AND ARCHITECT
6. UNLESS IT IS SPECIFIED, ACCESS PANELS SHALL BE PROVIDED AND INSTALLED WHEREVER REQUIRED BY BUILDING CODE.
7. THE CONTRACTOR IS RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING A REASONABLE AND PRUDENT SAFETY PROGRAM FOR ALL THOSE TRADES PERFORMING WORK ON THE PREMISES. THIS SHOULD INCLUDE BUT NOT BE LIMITED TO THE ISOLATION OF WORK AREAS AND THE PROMPT REMOVAL OF ANY DEBRIS OR TOOLS
8. THE CONTRACTOR SHALL COORDINATE WITH REPRESENTATIVES OF ANY AND ALL UTILITY COMPANIES TO VERIFY AVAILABLE FACILITIES AND, IF APPLICABLE, TO ESTABLISH TEMPORARY FACILITIES. ADDITIONALLY, THE CONTRACTOR SHALL COORDINATE THE REMOVAL, ABANDONMENT, AND/OR RELOCATION OF EXISTING UTILITIES BOTH ABOVE AND BELOW GRADE WITH THE RESPECTIVE UTILITY COMPANIES.
9. SUBSTITUTIONS: REFERENCE TO MAKERS, BRAND, MODELS, ETC., IS TO ESTABLISH THE TYPE AND QUALITY DESIRED; SUBSTITUTION OF ACCEPTABLE EQUIVALENTS WILL BE PERMITTED IF APPROVED BY THE ARCHITECT AND OWNER PRIOR
10. ONLY NEW MATERIALS AND EQUIPMENT OF RECENT MANUFACTURE, OF QUALITY SPECIFIED, FREE FROM DEFECTS, WILL BE PERMITTED ON THE WORK
11. FINAL CLEAN UP AND DISPOSAL. THE REMOVAL OF CONSTRUCTION DEBRIS, RUBBISH AND WASTE MATERIAL FROM THE PROPERTY TO A LAWFUL DISPOSAL OBSERVE ALL PERTAINATE FEDERAL STATE AND LOCAL LAWS, REGULATIONS AND ORDERS REGARDING COMPLETION OF WORK CLEAN-UP. ALL CONSTRUCTION AREAS SHALL BE CLEAN AND FREE FROM DEBRIS, INCLUDING, BUT NOT LIMITED TO: CLEAN ALL DUST, DIRT, STAINS, HAND MARKS, PAINT SPOTS, DRIPPINGS, AND OTHER BLEMISHES
12. THE ARCHITECT SHALL BE CONSULTED IN ALL CASES WHERE CUTTING INTO AN EXISTING STRUCTURAL PORTION OF ANY BUILDING IS EITHER EXPEDIENT OR NECESSARY. PRIOR TO PROCEEDING WITH WORK, REINFORCEMENT AND/OR SUPPORT SATISFACTORY TO THE ARCHITECT SHALL BE PROVIDED PRIOR TO CUTTING INTO STRUCTURAL PORTIONS OF ANY BUILDING
13. VERIFYING FLOOR-TO-FLOOR ELEVATIONS AT PROPOSED COVERED SIDEWALK. NEW WORK SHOULD ALIGN WITH RESPECTIVE FLOORS IN EXISTING BUILDING
14. FIELD VERIFY ALL EXISTING CONDITIONS. THE CONTRACTOR SHOULD NOTIFY THE ARCHITECT FOR CLARIFICATION OF WORK.
15. ALL EXISTING CONSTRUCTION IS TO BE VERIFIED BY CONTRACTOR, ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS MUST BE BROUGHT UP TO THE ARCHITECT'S ATTENTION.
16. CONTRACTOR TO KEEP SITE SECURE AT ALL TIMES.

PROJECT SPECIFIC NOTES

1. CONTRACTOR SHALL OBTAIN ANY AND ALL NECESSARY PERMITS TO COMPLETE THE JOB FROM THE BUILDING DEPARTMENT. PERMIT FEES AND ANY ASSOCIATED COSTS TO BE INCLUDED IN THE BID PROPOSAL.
2. CONTRACTOR SHALL PROVIDE ONE YEAR WARRANTY ON ALL MATERIALS AND LABOR.
3. ALL WORK TO BE DONE IN ACCORDANCE WITH 504/ADA REGULATIONS, ZONING/BUILDING CODE REQUIREMENTS, AND WASTE MANAGEMENT SPECIFICATIONS. (REFER TO THE UNIFORM ACCESSIBILITY STANDARDS (UFAS) FOR ADA COMPLIANCE, WASTE MANAGEMENT SPECIFICATIONS AND LOCAL ZONING/BUILDING CODES FOR GUIDANCE)
4. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATEON SITE. WORK SITE SHALL BE LEFT CLEAN AFTER THE END OF EACH WORKING DAY.
5. PROTECT SURROUNDING AREAS AROUND WORK SITE. CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR, PATCH OR RESTORE ANY EXISTING SURFACE DAMAGED OR ALTERED WHILE PERFORMING THE SCOPE OF WORK. RETURN AREAS TO CONDITION EXISTING PRIOR TO START OF CONSTRUCTION.
6. DO NOT OBSTRUCT STREETS, WALKS, OR ADJACENT OCCUPIED OF USED FACILITIES WITHOUT PERMISSION FROM PCHA. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS, IF NECESSARY.
7. ERECT TEMPORARY BARRICADES AND/OR PROTECTION AS REQUIRED TO ENSURING SAFETY TO THE RESIDENTS AND THE PUBLIC.
8. DISPLAY "CONSTRUCTION" OR "WARNING" SIGNS IF DIRECTED BY PCHA.
9. A PRE-CONSTRUCTION MEETING WILL BE REQUIRED PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL PROVIDE PCHA A COMPLETE CONSTRUCTION SCHEDULE AT THE PRECONSTRUCTION MEETING.
10. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO SUBMISSION OF BID. NOTIFY PCHA IMMEDIATELY OF ANY DISCREPANCIES DISCOVERED DURING THE COURSE OF CONSTRUCTION.
11. CONTRACTOR SHALL PROVIDE TEMPORARY ELECTRICAL SERVICE FOR THE DURATION OF THE PROJECT.
12. CONTRACTOR TO PROVIDE TEMPORARY POWER SOURCE AND SANITARY FACILITIES WHILE DURATION OF WORK..
13. GENERAL CONTRACTOR SHALL PROVIDE VISIBLE BULLETIN BOARD (PERMIT BOX), ON SITE - REFER TO CONTRACT FROM PCHA FOR INFORMATION TO BE INCLUDED IN BULLETIN BOARD (I.E. DAVIS BACON WAGES, ETC)
14. ALL CHANGE ORDERS SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING. NO VERBAL CHANGE ORDERS WILL BE CONSIDERED.

ABBREVIATIONS

ABV - ABOVE
AFF - ABOVE FINISH FLOOR
AHU - AIR HANDLER UNIT
A/C - AIR CONDITIONING
ALUM - ALUMINUM
AT - ALUMINUM THRESHOLD
AB - ANCHOR BOLT
AVG - AVERAGE
BFE - BASE FLOOD ELEVATION
BM - BEAM
BRG - BEARING
BLK - BLOCK
BLDG - BUILDING
BRD - BOARD
BTM - BOTTOM
CAB - CABINET
CD - CONSTRUCTION DOCUMENTS
CLG - CEILING
CLG HT - CEILING HEIGHT
CEMT - CEMENTITIOUS
CL - CENTERLINE
COL - COLUMN
CONC - CONCRETE
CMU - CONCRETE MASONRY UNIT
CONST - CONSTRUCT OR CONSTRUCTION
CONT - CONTINUOUS OR CONTINUES
CTR - CENTER
CJ - CONTROL JOINT
DP - DEEP OR DEPTH
DTL - DETAIL
DIA - DIAMETER
DIM - DIMENSION
DISCON - DISCONNECT
DW - DISHWASHER
DR - DOOR
DBL - DOUBLE
DWG - DRAWING
EA - EACH
ELEC - ELECTRICAL
ELEV - ELEVATOR
EQUP - EQUIPMENT
EXP JT - EXPANSION JOINT
EXT - EXTERIOR
FIN FLR - FINISHED FLOOR
FIN - FIN
EW - EACH WAY
FG - FIXED GLASS
FD - FLOOR DRAIN
FE - FIRE EXINGUISHER
FLR - FLOOR
FLOUR - FLUORESCENT
FTG- FOOTING
FR DR - FRENCH DOOR
GALV - GALVANIZED
GA - GAUGE
GB - GRAB BAR
GWB - GYPSUM WALL BOARD
GFI / GFCI- GROUND FAULT CIRCUIT INTERRUPTOR
GYPBRD- GYPSUM BOARD
HD - HEAD
HVAC - HEATING, VENTILATING, AIR CONDITIONING
HT - HEIGHT
HB - HOSE BIB
HC - HANDICAP
INSUL - INSULATION
INT - INTERIOR
LVL - LAMINATED VENEER LUMBER
LT- LAUNDRY TUB
LGT- LIGHT
MAX - MAXIMUM
MATL - MATERIAL
MRF - MANUFACTURER
MECH - MECHANICAL
MTL- METAL
MC - MEDICINE CABINET
MIN- MINIMUM
MLDG- MOULDING
MNT - MOUNT OR MOUNTING
MO - MASONRY OPENING
MUNT- MUNTINS
- NUMBER
OC - ON CENTER
OGD -OVERHEAD GARAGE DOOR
OPNG - OPENING
OPP - OPPOSITE
OPT - OPTIONAL
OH - OVER HANG
OH CABS- OVERHEAD CABS
PNT- PAINT FINISH
PTD - PAINTED
PED - PEDESTAL
PERF - PERFORATED
PLT - PLATE
PLYWD - PLYWOOD
PKT - POCKET
LB - POUND
PSF - POUNDS PER SQUARE FOOT
PSI - POUNDS PER SQUARE
PT - PRESSURE TREATED
PB - PUSH BUTTON
REF - REFRIGERATOR
RECP - RECEPTACLE
REINF - REINFORCING
REQD - REQUIRED
REQD - REQUIRED
R/A- RETURN AIR
RO - ROUGH OPENING
RS - ROUGH SAWN
SC - SOLID CORE
SCP - SCUPPER
SCRN - SCREEN
SIM - SIMILAR
SHLVS - SHELVES
S/R - SHELF & ROD
SH - SINGLE HUNG WINDOW
SGD - SLIDING GLASS DOOR
SPECS- SPECIFICATIONS
SQ FT - SQUARE FEET
SQ IN - SQUARE INCH
STD - STANDARD
STL - STEEL
STRUCT- STRUCURAL
TEMP - TEMPERED
THK- THICK OR THICKNESS
TB - TOWEL BAR
TOC - TOP OF CONCRETE
TOM - TOP OF MASONARY
TOP - TOP OF PLATE
TP -TOILET PAPER HOLDER
TYP - TYPICAL
UNO - UNLESS NOTED OTHERWISE
VAC - VACUUM
VAL - VALANCE
VERT - VERTICAL
VIF - VERIFY IN FIELD
VTR - VENT THROUGH ROOF
V - VOLT
WC - WATER CLOSET
WH- WATER HEATER
WL - WIND LOAD
WP - WEATHERPROOF
WWM - WELDED WIRE MESH
W - WIDE OR WIDTH
WDW - WINDOW
W/ - WITH
WD- WOOD

OWNER:

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INDEX OF DRAWINGS

PINELLAS COUNTY HOUSING AUTHORITY

RESIDENCE RENOVATION

Pinellas County Housing Authority

12065 134th Pl N
LARGO, FL 33778

PROJECT SCHEDULE

- SELECTED CONTRACTOR TO PREPARE PROJECT SCHEDULE IN CONJUNCTION WITH PCHA REQUIREMENTS

WORK ACCESS / PHASING

CONTRACTOR SHALL HAVE ACCESS TO THE FACILITY DURING WORKING HOURS: 8:00AM - 5:00PM MONDAY THRU FRIDAY AND IF REQUIRED TO COMPLETE THE WORK. CONTRACTOR MUST MAKE ARRANGEMENTS WITH PCHA AND ARCHITECT FOR ACCESS AND PHASING IN ORDER TO MEET THE REQUIREMENTS OF THE CONTRACT.

CODES AND STANDARDS

TO THE BEST OF MY KNOWLEDGE, THESE DRAWINGS ARE COMPLETE AND COMPLY WITH THE FLORIDA BUILDING CODE.

1. FLORIDA BUILDING CODE 5TH EDITION (2014) - BUILDING
2. FLORIDA BUILDING CODE 5TH EDITION (2014) - ENERGY CONSERVATION
3. FL BLDG. CODE 5TH EDITION(2014)- EXISTING BLDG.
4. FL BUILDING CODE 5TH EDITION (2014) - MECHANICAL
5. FLORIDA BUILDING CODE 5TH EDITION (2014) - PLUMBING
6. FL BUILDING CODE 5TH EDITION (2014) - ACCESSIBILITY
7. 2014 NATIONAL ELECTRIC CODE (NEC)
8. 2013 FLORIDA FIRE PREVENTION CODE (FFPC), (INCLUDES 2012 VERSIONS OF NFPA 1 & NFPA 101)
9. OSHA STANDARDS

CODE DATA

OCCUPANCY:	SINGLE FAMILY RESIDENTIAL
CONSTRUCTION TYPE:	"V" UNPROTECTED
MAX. NO. OF STORIES:	2
ZONING PINELLAS COUNTY:	SINGLE FAMILY 01
BUILDING AREAS	
NEW BUILDING AREA:	
1st FLOOR A/C	82 S.F.
TOTAL LIVING AREA:	**806 S.F.**
GARAGE-NON A/C	198 S.F.
LAUNDRY	57 S.F.
NEW TOTAL GROSS BLDG. AREA	**1,143 S.F.**
FLOOD ZONE FLOOD ZONE:	NON EVAC
LAND SIZE:	
ALLOWABLE ISR:	
EXISTING LOT AREA:	60'-0"X105'-0"=6,300 S.F.
ALLOWED ISR:	50%
PROPOSED ISR:	1593 S.F. **26%**

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Sheet Name :	COVER SHEET
Phase :	**PERMIT SET**
Revision : REV.1 OWNER CHANGES	2017.03.31
Date : 3.3.2017	
Drawn by : DC	**G-1**
Checked by : JJM	
Plot Scale :	
Project Number : 1659	

3/30/2017 1:25:27 PM

1.SITE WORK/ LANDSCAPING/ FENCE

1. THE SITE REQUIRES SITE SERVICES SUCH AS: MOWING, PRUNING, TRIMMING, WEED CONTROL, FUNGICIDE TREATMENT, REMOVAL OF TRASH, AND REPLACEMENT OF FENCE PRIOR TO COMPLETION OF PROJECT.
   A. VEGETATION ALONG THE HOUSE AND FENCES SHOULD BE REMOVED.
   B. LANDSCAPE IRRIGATION SHALL BE INSTALLED AT ALL PLANT BEDS AND SODDED AREAS.
      a. PIPES SHALL BE INSTALLED ALONG WALKS, CURBS OR WALLS. THEY SHALL NOT BE INSTALLED IN THE MIDDLE OF PLANTERS. CONTRACTORS SHALL PRESERVE EXISTING LANDSCAPE LOCATED IN NEW PIPE AREAS IF POSSIBLE. MAIN LINES SHALL BE 4" CLASS 200 PURPLE AND LATERALS SHALL BE SCH 40 PVC.
      b. WHERE EXISTING PAVED SURFACES CROSS IRRIGATION LINES, ALL PIPING UNDER SAID SURFACES SHALL BE IN SLEEVES. SLEEVES SHALL BE SCH 40 PVC, MINIMUM 2" DIAMETER OR AS SPECIFIED ON PLAN. JET OR JACK AND BORE UNDER EXISTING DRIVEWAYS.
      c. CALL THE LOCAL UTILITY LOCATION SERVICE TO MARK UTILITY LOCATIONS BEFORE DIRECTIONAL DRILLING.
   C. SOD SHALL BE INSTALLED IN ANY AREAS MISSING OR DESTROYED DURING RENOVATION.
   D. ALL TREES AND PLANTS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED TO MATCH EXISTING.
   E. ANNUALS SHALL BE PLANTED IN THE FRONT FLOWER BED.
   F. MULCH SHALL BE APPLIED TO ALL FLOWER BEDS.
   G. PRUNING AND TRIMMING SERVICES WILL BE PROVIDED. HEDGES, SHRUBS, AND GROUND COVERS, AS WELL AS TREES TO FIFTEEN (15) FEET, WILL BE TRIMMED ACCORDING TO THE HEALTH AND GROWTH PATTERNS OF THE PLANT AND WITH CONSIDERATION TO THE DESIRES OF THE CLIENT. PRUNING AND TRIMMING SHALL BE DEFINED AS THE SHAPING OF THE PLANT AND TREE MATERIALS AS TO MAINTAIN CONTROL OF HEIGHT AND NATURAL CHARACTERISTICS OF THE INDIVIDUAL PLANT AND/OR TREE, REMOVAL OF DEAD, DISEASED, OR BROKEN BRANCHES, LIMBS OR FRONDS, SUCKERS, LOW HANGING LIMBS PLUS THE REMOVAL OF BRANCHES, LIMBS, FRONDS, OR FOLIAGE WHICH OBSTRUCT THE NEIGHBORS FENCE.
   H. ALL TRIMMINGS AND DEBRIS WILL BE REMOVED FROM PROPERTY FOR DISPOSAL.
   I. REMOVE ALL EXISTING FENCES AND THEN INSTALL A SIX FOOT WHITE VINYL FENCE NEAR THE PROPERTY LINE TO ENCLOSE THE REAR AND SIDES OF THE YARD.
   J. PATCH DRIVEWAY AND SIDEWALK CRACKS. LEVEL OUT TRIP HAZARDS.

2. EXTERIOR FACADE/ ROOF

A. CONTRACTOR SHALL MAKE REPAIRS TO THE ROOF/ATTIC IF REQUIRED.
B. PRESSURE WASH THE ENTIRE EXTERIOR OF THE HOUSE.
C. REMOVE ALL UNUSED ELECTRICAL ITEMS, LOW VOLTAGE WIRES, AND BOXES FROM THE EXTERIOR OF THE BUILDING.
D. REPAIR ALL STUCCO AND CAULK AROUND ALL EQUIPMENT ATTACHED TO THE EXTERIOR WALLS.
E. PAINT THE EXTERIOR WITH SHERWIN WILLIAMS PAINT SELECTIONS (OR APPROVED EQUAL) BY OWNER. REFER TO SECTION 7 :PAINTING.

3: WINDOWS/ BLINDS/ SCREENS

A. REFER TO **WINDOW SCHEDULE** IN FLOOR PLAN FOR WINDOW TYPE AND SIZES
B. REPLACE ALL DAMAGED WINDOW SCREENS AND BLINDS.
C. REPLACE ALL SCREENS AT FRONT PORCH.
D. WINDOWS ARE TO BE ADJUSTED SO THAT THEY OPEN AND CLOSE PROPERLY. IF THEY CAN'T BE REPAIRED TO OPERATE PROPERLY THEY SHOULD BE REPLACED WITH IMPACT WINDOWS THAT MATCH EXISTING.
E. WINDOW BLINDS TO BE WHITE 2-1/2 IN. PREMIUM FAUX WOOD BLIND. FIELD VERIFY SIZE. (TYPICAL)
F. INSTALL NEW MARBLE WINDOW SILLS. FIELD VERIFY LENGTH.

4: ROOF SYSTEM/ ATTIC

A. CONTRACTOR SHALL MAKE REPAIRS TO THE ROOF/ATTIC IF REQUIRED.
B. CONTRACTOR SHALL REMOVE AND REPLACE ALL ASPHALT ROOFING SHINGLES, LEAK BARRIER/ DECK PROTECTION, METAL FLASHING, AND FASCIA. PRODUCTS TO BE AS FOLLOWS:
   a. TIMBERLINE® HD LIFETIME HIGH DEFINITION SHINGLES, BY GAF®. COLOR: WHITE- ENERGY STAR RATED OR APPROVED EQUAL.
   b. SEAL-A-RIDGE® RIDGE CAP SHINGLES BY GAF® OR APPROVED EQUAL.
   c. PROSTART™ STARTER STRIP BY GAF® OR APPROVED EQUAL.
   d. STORMGUARD® LEAK BARRIER, BY GAF® OR APPROVED EQUAL.
   e. TIGER PAW BY GAF® OR APPROVED EQUAL.
   f. ASPHALT PLASTIC ROOFING CEMENT MEETING THE REQUIREMENTS OF ASTM D 4586, TYPE I OR II.
   g. COBRA® RIGID VENT 2™ OR COBRA® RIGID VENT 3™ RIDGE VENT (INCLUDES 3" GALVANIZED RING SHANK NAILS), BY GAF® OR APPROVED EQUAL.
   h. NAILS TO BE STANDARD ROUND WIRE, ZINC-COATED STEEL OR ALUMINUM; 10 TO 12 GAUGE, SMOOTH, BARBED OR DEFORMED SHANK, WITH HEADS 3/8" (9.5 MM) TO 7 /16" (11 MM) IN DIAMETER. LENGTH MUST BE SUFFICIENT TO PENETRATE INTO SOLID WOOD AT LEAST 3/4" (19 MM) OR THROUGH PLYWOOD OR ORIENTED STRAND BOARD BY AT LEAST 1/8".
   i. NAILING PATTERNS FROM STANDARD BUILDING CODE.
   j. METAL FLASHING TO BE .24 GAUGE HOT-DIP GALVANIZED STEEL SHEET, COMPLYING WITH ASTM A 653/ A 653M, G90/Z275.
C. CONTRACTOR SHALL REMOVE AND REPLACE ANY DAMAGED PLYWOOD DECK SHEATHING AS REQUIRED.
   a. ALLOWANCE WITH BID: 200 SQUARE FEET. THICKNESS TO MATCH EXISTING.
   b. PROVIDE A LINE ITEM FEE FOR ADDITIONAL PLYWOOD PER SQUARE FOOT.
D. CONTRACTOR SHALL REMOVE AND REPLACE ANY DAMAGED SOFFIT AS REQUIRED.
   a. ALLOWANCE WITH BID: 50 SQUARE FEET. THICKNESS TO MATCH EXISTING.
   b. PROVIDE A LINE ITEM FEE FOR ADDITIONAL MATERIAL PER SQUARE FOOT.
E. CONTRACTOR SHALL REMOVE EXISTING ATTIC INSULATION ALONG WITH ANY TRASH OR DEBRIS.
F. CONTRACTOR SHALL FURNISH LABOR AND MATERIALS TO PROVIDE R-40 BLOWN CELLULOSE INSULATION IN THE ATTIC OF A1,164 SQUARE FOOT HOME.

5: INTERIOR TRIM/ BASEBOARDS/ DOORS/ WOOD/ HARDWARE/ LOCK-SET

REFER TO DOOR SCHEDULE IN FLOOR PLAN.
A. (8) SOLID DOOR TEXTURED 6-PANEL SOLID CORE PRIMED COMPOSITE SINGLE PRE-HUNG INTERIOR DOOR. FIELD VERIFY SIZES. (TYPICAL)
   a. (1) KWIKSET BALBOA SATIN NICKEL HALL/CLOSET LEVER (TYPICAL)
   b. (4) KWIKSET BALBOA SATIN NICKEL BED/BATH LEVER (TYPICAL)
B. (1) 45 MIN. RATED SOLID DOOR TEXTURED 6-PANEL SOLID CORE PRIMED COMPOSITE SINGLE PRE-HUNG INTERIOR DOOR. FIELD VERIFY SIZES. (TYPICAL)
   a. (1) KWIKSET BALBOA SATIN NICKEL HALL/CLOSET LEVER (TYPICAL)
   b. (4) KWIKSET BALBOA SATIN NICKEL BED/BATH LEVER (TYPICAL)
C. (2) PLANTATION FULL LOUVER PAINTED PINE INTERIOR CLOSET BI-FOLD DOOR. FIELD VERIFY SIZE.
   a. (6) PRIME-LINE SATIN NICKEL BI-FOLD DOOR KNOB.
D. (1) FRONT EXTERIOR DOOR IS TO BE ADJUSTED. NEW LOCKSET AND DOOR KNOB TO BE INSTALLED.REFER TO PA SHEETS
   a. (1) ACCENT SATIN NICKEL CAMELOT TRIM SINGLE CYLINDER HANDLE SET LEVEL
E. (1) GARAGE EXTERIOR DOOR -REFER TO PA SHEETS
F. (1) CUSTOM SIZED FLUSH WD. DOOR (LINEN CLOSET)
   a. (1) KWIKSET BALBOA SATIN NICKEL HALL/CLOSET LEVER (TYPICAL)
   b. (4) KWIKSET BALBOA SATIN NICKEL BED/BATH LEVER (TYPICAL)
G. (1) LOUVERED WD. SWING DOOR FOR A/C RETURN
   a. (1) KWIKSET BALBOA SATIN NICKEL HALL/CLOSET LEVER (TYPICAL)
   b. (4) KWIKSET BALBOA SATIN NICKEL BED/BATH LEVER (TYPICAL)
H. REMOVE EXISTING AND INSTALL ALL NEW WOOD BASEBOARDS LWM 623 - 15/32 IN. X 3-1/4 IN. PRIMED MDF BASE MOLDING THROUGHOUT THE HOUSE.

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6: FRAMING/ WALL INSULATION/ DRYWALL/ TEXTURE/ PARTITION WALLS

A. REMOVE ALL EXISTING DRYWALL FROM WALLS AND CEILING.
B. CONTRACTOR SHALL TREAT ALL EXISTING WALLS AND FLOOR WITH A MOLD TREATMENT PRIOR TO CONSTRUCTION.
C. REMOVE/REPLACE ALL DAMAGED WALL FRAMING AND FURRING STRIPS.
   a. TO MATCH EXISTING.
   b. ALLOWANCE WITH BID: 100 LINEAR FEET.
   c. PROVIDE A LINE ITEM FEE FOR ADDITIONAL LUMBER PER LINEAR FOOT.
   d. PROVIDE WOOD BLOCKING IN BATHROOM, KITCHEN, AND CLOSETS FOR ALL WALL ATTACHMENTS.
D. REMOVE/ REPLACE ALL DAMAGED INSULATION ALONG THE EXTERIOR WALLS.
   a. TYPE OF INSULATION: R-5
   b. ALLOWANCE WITH BID: 200 SQUARE FEET.
   c. PROVIDE A LINE ITEM FEE FOR ADDITIONAL INSULATION PER SQUARE FOOT.
E. INSTALL NEW 1/2 "GYPSUM BOARD AT ALL INTERIOR WALLS.
F. INSTALL NEW PURPLE BOARD, XP MOLD RESISTANT AT ALL THE KITCHEN, BATHROOM, AND EXTERIOR WALLS.
G. TEXTURED DRYWALL TO BE KNOCK-DOWN. (TYPICAL)
H. TEXTURED CEILING TO BE SKIP TROWEL (TYPICAL)
I. INSTALL INSULATION IN ALL BATHROOM WALLS.
J. INSTALL DU ROCK IN BATHROOM UNDER WALL TILE FROM FLOOR TO CEILING AT TUB AREA.

7: PAINTING/ CAULK/ PATCH/ GROUT

A. PATCH/ CAULK ALL GAPS AT WALL CORNERS, CEILING GAPS, AND TRIM THROUGHOUT HOME/PORCH.
B. PAINT SHOULD BE APPLIED PER MANUFACTURER RECOMMENDATIONS.
C. INTERIOR PAINT ALL WALLS, CEILINGS, AND TRIM THROUGHOUT THE HOUSE.
   a. EGG-SHELL: LIVING AREA, HALL, AND BEDROOMS:
      • DRYWALL: FIRST PVA PRIMER B28W8000, THEN S-W PROMAR 200 ZERO VOC LATEX EG-SHEL, B20-2600 SERIES
   b. SEMI-GLOSS: INTERIOR DOORS, DOORFRAMES, AND BATHROOM
      • DRYWALL: S-W PROMAR 200 ZERO VOC LATEX SEMI-GLOSS, B31-2600 SERIES
      • WOOD: S-W PROCLASSIC WATERBORNE ACRYLIC GLOSS ENAMEL, B21 SERIES
      • METAL: S-W PRE-CATALYZED WB EPOXY SEMI-GLOSS ENAMEL, K46 SERIES
   c. COLOR SCHEDULE:
      • WALLS TO BE SW6106 KILIM BEIGE
      • CEILINGS AND TRIM TO BE SW7005 PURE WHITE
D. EXTERIOR PAINT
   a. STUCCO: S-W A100 LATEX SATIN (SEALER) AND LOXON XP CONDITIONER (TOPCOAT)
   b. WOOD: S-W A100 LATEX SATIN (SEALER) AND LOXON XP CONDITIONER (TOPCOAT)
   c. METAL (ALUMINUM): DTM ACRYLIC B66W1151
   d. METAL (STEEL): INDUSTRIAL ENAMEL B54W101
   e. COLOR SCHEDULE:
      • BASE (WALLS, SOFFIT, AND FASCIA) : SHERWIN WILLIAMS TEA LIGHT SW7681
      • TRIM(BRICK, DOOR, AND WINDOW SILLS) : SHERWIN WILLIAMS RAINWASHED SW6211

8 FLOOR FINISHES: LUXURY VINYL TILE / CERAMIC TILE

ALL FINISHES SHALL BE COORDINATED AND APPROVED BY PCHA PRIOR TO ORDERING (SPECIFICATIONS ARE BASIS OF DESIGN)
A. REMOVE TILE IN KITCHEN AND BATHROOM.
B. THE CONTRACTOR WILL BE RESPONSIBLE FOR PREPPING THE FLOOR PRIOR TO INSTALLING THE PLANKING.
C. THE CONTRACTOR WILL SUPPLY ALL MATERIALS. FLOATING MATERIAL, ADHESIVE AND PLANKING. THE CONTRACTOR WILL BE INSTALLING EARTH WERKS PACIFIC PLANK APP 650 (OR APPROVED EQUAL) OVER EXISTING CONCRETE SLAB AND/OR TERRAZZO IN ALL ROOMS EXCEPT FOR THE BATHROOM. CONTRACTOR WILL ALSO SUPPLY (1) ONE EXTRA BOX OF FLOORING.
D. CONTRACTOR TO INSTALL TRANSITION STRIPS TO MATCH PLANK FLOORING.
E. BATHROOM FLOORING: GLAZED CERAMIC WALL, FLOOR, AND 3 X12 BN BASEBOARD TILE TO BE DALTILE GREENWORKS. COLOR TO BE CREMONA CAFE.
F. BATHROOM: BASEBOARD IN THE BATHROOM WHICH IS TO BE 3X12 BN TILE.

9: MILLWORK

A. **ALL MILLWORK SHALL BE COORDINATED AND APPROVED BY PCHA PRIOR TO ORDERING (SPECIFICATIONS BELOW ARE BASIS OF DESIGN)**
B. REPLACE ALL CABINETRY IN KITCHEN AND BATHROOM.
C. WOOD CABINETS - COLOR: MOCHA BRAND: ARMSTRONG CABINETS STYLE: CORONET DESIGN OR EQUIVALENT BRAND WILL BE ACCEPTED IF SUBMITTED IN ADVANCE WITH BID PROPOSAL.
D. FORMICA COUNTER TOP - WILSONART- COLOR: MILANO AMBER 4724-62. HALF BULLNOSE EDGE.
E. CONTRACTOR SHALL FIELD VERIFY ALL MEASUREMENTS PRIOR TO ORDERING CABINETS.
F. CONTRACTOR SHALL FIELD VERIFY ALL APPLIANCE MEASUREMENTS TO MAKE SURE CABINETS AND DRAWERS HAVE PROPER CLEARANCES.
G. KITCHEN CABINETS:
   a. WOOD BASE AND CASE
   b. WOOD CABINETS
   c. HARDWARE: BRUSHED SATIN NICKEL KNOBS
   d. ALL SHELVES WILL BE AT LEAST 1/4" MATERIAL AND ADJUSTABLE
   e. EXPOSED ENDS TO BE FINISHED WITH 1/4 "WOOD TO MATCH THE DOORS AND FRAMES
   f. CABINET BACKS TO BE CONSTRUCTED OF 1/4" WOOD
   g. CABINET BASES AND COUNTER
   h. 30" UPPERS TYPICAL; 12" UPPERS OVER REFRIGERATOR.
   i. WOOD DRAWERS WITH SIDE MOUNT EPOXY COATED CUSHION TECH DRAWER GUIDES
   j. HINGES TO BE FULLY CONCEALED OR SEMI CONCEALED
   k. KITCHEN PANELS
   l. TOE KICK WILL BE REMOVABLE WATER RESISTANT MATCHING FACE
   m. END CAP KITS
H. BATHROOM CABINETS:
   a. HIGH VANITY 32.5"
   b. CABINET SINK BASE
   c. TOE KICK WILL BE REMOVABLE WATER RESISTANT MATCHING FACE
   d. COUNTER/ VANITY TOP
   e. HARDWARE: BRUSHED SATIN NICKEL KNOBS

10: NEW APPLIANCES

A. REMOVE AND REPLACE ALL EXISTING APPLIANCES.
B. PURCHASE AND INSTALL ENERGY STAR RATED REFRIGERATOR, RANGE, AND HOOD.
C. CONTRACTOR TO FIELD VERIFY SIZES WITH CABINET AND WALL DIMENSIONS.
D. GARBAGE DISPOSAL TO BE INSINKERATOR. BADGER 500-1/2 HP CONTINUOUS FEED GARBAGE DISPOSAL
E. ELECTRIC RANGE TO BE 30" KENMORE SELF-CLEANING- BLACK
F. RANGE CORD, 3 WIRE. 4FT.
G. INSTALL KENMORE 30" RANGE DUCT-FREE HOOD. BLACK
H. REFRIGERATOR TO BE WHIRLPOOL 24.5 FT. SIDE BY SIDE - BLACK
I. ENERGY STAR 30 GALLON ELECTRIC WATER HEATER- LOW BOY

11: CLOSET SHELVING

A. REMOVE/REPLACE ALL SHELVING WITH VENTILATED SHELVING

12: PLUMBING FIXTURES / BATHROOM ACCESSORIES

A. CONTRACTOR WILL INSTALL NEW PLUMBING TO MATCH EXISTING AND WILL REPAIR /PAINT ANY DAMAGES TO ADJACENT AREAS. REMOVE/REPLACE ALL EXISTING KITCHEN AND BATHROOM FIXTURES. NEW ITEM SPECIFICATIONS:
B. INSTALL KITCHEN SINK- MOEN MODEL #GL82134. 1800 SERIES DROP-IN STAINLESS STEEL 33 IN. 4-HOLE DOUBLE BOWL
C. KITCHEN SINK FAUCET SHALL BE AMERICAN STANDARD FAIRBURY SINGLE-HANDLE PULL-DOWN SPRAYER KITCHEN FAUCET IN STAINLESS STEEL
D. INSTALL BATHROOM SINK; ROUND- 19" DROP IN: COLOR: WHITE- SKU # 462-268
E. BATHROOM SINK FAUCET FIXTURE- WILLAMETTE 4 IN. CENTERSET 2-HANDLE WATER-SAVING BATHROOM FAUCET IN VIBRANT BRUSHED NICKEL
F. BATHROOM KNOBS: 1-3/16 IN. BRUSHED NICKEL CLASSIC KNOB. F.V. AMOUNT.
G. REMOVE EXISTING TUB AND INSTALL NEW TUB TO MATCH EXISTING.
H. KOHLER WILLAMETTE 1-HANDLE TUB AND SHOWER FAUCET IN VIBRANT BRUSHED NICKEL
I. ELEGANT HOME FASHIONS - TOUCH UP DECORATIVE SHOWER ROD IN BRUSHED NICKEL
J. REMOVE EXISTING TOILET AND INSTALL NEW TOILET. TYPE: CADET 3 FLO WISE 2-PIECE 1.28 GPF HIGH EFFICIENCY ELONGATED TOILET IN WHITE
K. TOILET PAPER HOLDER /FIXTURE TO BE INSTALLED/IN-BEDDED INSIDE THE SIDE OF VANITY TO BE PROVIDED BY CONTRACTOR. SELECTION: GLACIER BAY: BUILDERS 3 PIECE BATH ACCESSORY KIT IN BRUSHED NICKEL
L. ADA 1-1/2"X24" GRAB BAR-BRUSHED NICKEL
M. KOHLER 20 IN. W X 26 IN. H RECESSED MEDICINE CABINET

13: HVAC

CONTRACTOR IS RESPONSIBLE TO PROVIDE MECHANICAL CALCULATIONS FROM MECHANICAL CONTRACTOR RESPONSIBLE FOR INSTALLING THE A/C SYSTEM - INCLUDE MECH. CALCS. COST IN BID
A. CONTRACTOR SHALL REMOVE/REPLACE THE ENTIRE HVAC SYSTEM, INCLUDING ALL DUCTWORK, AND INSTALL A NEW 2-TON HVAC SYSTEM.
B. CONTRACTOR(S) WILL INSTALL NEW DIGITAL PROGRAMMABLE THERMOSTAT. HONEYWELL MODEL#: 8321
C. NEW EQUIPMENT: INSTALL NEW EQUIPMENT TO COMPLY WITH MANUFACTURER SPECIFICATIONS AND LOCAL CODE REQUIREMENTS. COMFORTMAKER 15 SEER N SERIES #410A HP (OR APPROVED EQUAL), RATED AS FOLLOWS:
   a. 2 TON HEAT PUMP WITH HEAT STRIP
   b. COOLING CAPACITY (BTUH): 24,000
   c. EER RATING (COOLING): 12.00
   d. SEER RATING (COOLING): 15.00
   e. HEATING CAPACITY (BTUH)@ 47 F: 24,000
   f. REGION IV HSPF RATING (HEATING): 8.5
   g. HEATING CAPACITY (BTUH)@ 17 F: 14,700
   h. 10 YEAR LIMITED WARRANTY

14: ELECTRICAL FIXTURES/ EQUIPMENT

A. CONTRACTOR SHALL MAKE REPAIRS TO THE ELECTRICAL SYSTEM AS REQUIRED BY CODE.
B. IN REGARDS TO THE ELECTRICAL RE-WIRING, ALL ELECTRICAL REWIRING SHOULD BE INSTALLED PER CURRENT BUILDING CODES. NO ALUMINUM WIRING SHALL BE USED. REMOVE ANY EXISTING ALUMINUM WIRE AND REPLACE WITH CODE COMPLIANT WIRING.
C. CONTRACTOR SHALL ALSO REPLACE ALL ELECTRICAL BOXES, OUTLETS; PLATES, AND SWITCHES. ITEMS TO BE WHITE. GFCIS SHALL BE REPLACED WITH NEW GFCI'S.
D. OUTLET COVERS AND SWITCH COVERS ARE TO BE WHITE AND UNBREAKABLE.
E. INSTALL SMOKE DETECTORS PER CODE REQUIREMENTS. KIDDE MODEL# KN COPED, BATTERY OPERATED PHOTO ELECTRIC COMBO SMOKE AND CARBON MONOXIDE TALKING ALARM
F. KITCHEN AND HALLWAY LIGHT FIXTURES TO BE COMMERCIAL ELECTRIC MODEL# HUI8011L-2/BN, BRUSHED NICKEL LED ENERGY STAR FLUSH MOUNT
G. LIGHT FIXTURES IN LIVING ROOM AND ALL BEDROOMS ARE TO BE HAMPTON BAY MODEL #52372. SOUTHWIND 52 IN. MATTE WHITE CEILING FAN.
H. REPLACE ALL EXTERIOR LIGHTS ON HOUSE.
   a. MOTION/SENSOR LIGHT: DEFIANT 180 DEGREE 2-HEAD WHITE OUTDOOR FLOOD LIGHT
   b. PORCH FAN/LIGHT: HAMPTON BAY ROANOKE 48 IN. INDOOR/OUTDOOR WHITE CEILING FAN
I. BATHROOM LIGHT: HAMPTON BAY 3-LIGHT BRUSHED NICKEL VANITY

15: TERMITE TREATMENT

A. ONCE DEMOLITION IS COMPLETE THE CONTRACTOR MUST PROVIDE COMPLETE FUMIGATION OF TERMITE TREATMENT FOR THE ENTIRE HOUSE AS WELL AS TREATMENT FOR SUBTERRANEAN TERMITES. THIS MUST OCCUR PRIOR TO ADDITIONS AND NEW MATERIAL BEING ADDED TO THE BUILDING. TREATMENT SHALL INCLUDE A FULL WARRANTY.

16: FINAL CLEANING

IN ADDITION TO THE GENERAL BROOM CLEANING, ALL SURFACES OF THE ENTIRE HOUSE/GARAGE/PATIO ROOMS SHOULD BE CLEANED USING ONLY CLEANING MATERIAL RECOMMENDED BY MANUFACTURER OF SURFACE TO BE CLEANED AND ONLY ON SURFACES RECOMMENDED BY CLEANING MATERIAL MANUFACTURER. REMOVE ALL MARKS, STAINS, FINGERPRINTS, AND OTHER
SOIL AND/OR DIRT FROM ALL PAINTED, DECORATED, & STAINED SURFACES. CLEAN AND POLISH ALL LIGHT FIXTURES, CEILING FANS, HARDWARE AND TRIM FOR ALL TRADES, INCLUDING REMOVAL OF ALL STAINS, DUST, AND MORE. EXISTING TRASH AND DEBRIS SHOULD BE REMOVED FROM THE HOME /PROPERTY.

17: GENERAL ITEMS

A. IT IS STRONGLY RECOMMENDED THAT EVERY BIDDER ATTENDS THE PRE-BID MEETING.
B. CONTRACTOR SHALL INCLUDE IN BID PROPOSAL ALL NECESSARY BUILDING PERMITS AND FEES TO COMPLETE THIS PROJECT.
C. REFER TO ATTACHED CABINET DRAWINGS AND PRODUCT SPECIFICATIONS.
D. THE CONTRACTOR(S) SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
E. EXISTING CONDITIONS - ALL DIMENSIONS FOR EXISTING CONDITIONS ARE TO BE VERIFIED IN FIELD (V.I.F.) BY THE CONTRACTOR.
F. PRIOR TO COMMENCEMENT OF WORK CONTRACTOR SHALL MEET WITH OWNER REPRESENTATIVE FOR A PRE-CONSTRUCTION MEETING.
G. WORK DAYS AND TIMES TO BE 8:00 AM TO 5:00 PM MONDAY TO FRIDAY.
H. CONTRACTOR SHALL LEAVE ALL WORK AREAS CLEAN AT THE END OF EACH DAY. ALL CONSTRUCTION DEBRIS SHALL BE HAULED AND DISPOSED OF OFFSITE.
I. CONTRACTOR SHALL PATCH, REPAIR, AND PAINT ANY DAMAGE TO ADJACENT AREAS WHILE PERFORMING THE SCOPE OF WORK
J. ALL WORK SHALL BE PERFORMED IN A FIRST CLASS, WORKMANLIKE MANNER MATCHING AND ALIGNING ALL SURFACES, WHERE APPLICABLE, TO AFFORD A FINISHED AND CLEAN APPEARANCE. THE CONTRACTOR SHALL CLEAN ALL SURFACES AND REMOVE ALL DIRT AND REFUSE CAUSED BY DEBRIS FROM INSTALLATION TECHNIQUES OF EACH TRADE. ADJACENT EXISTING SURFACES SHALL BE LEFT AS THEY APPEARED PRIOR TO THE COMMENCEMENT OF WORK UNDER THIS CONTRACT.
K. **CONTRACTOR SHALL NOT EXCEED (6) SIX CALENDAR MONTHS TO COMPLETE THE PROJECT. LIQUIDATED DAMAGES WILL APPLY TO THIS PROJECT AT $100.00 PER DAY.**
L. CONTRACTOR SHALL PROVIDE ONE YEAR WARRANTY ON MATERIALS AND LABOR.
M. CONTRACTOR SHALL PROVIDE PCHA WITH A COPY OF ALL WARRANTIES AND MATERIAL SPECS UPON COMPLETION OF PROJECT.
N. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONDITIONS AT THE JOB SITE SO AS TO MEET THE REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), DURING THE ENTIRE CONSTRUCTION PERIOD. THIS PROVISION SHALL COVER THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PERSONS WORKING UPON OR VISITING THE SITE. THE CONTRACTOR SHALL ADVISE AND INFORM HIS EMPLOYEES, SUBCONTRACTORS, AND SUPPLIERS OF ALL OSHA REQUIREMENTS.

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PINELLAS COUNTY HOUSING AUTHORITY — PROGRESSIVE PINELLAS

RESIDENCE RENOVATION

Pinellas County Housing Authority

12065 134th Pl N
LARGO, FL 33778

SPECIFICATION NOTE

NONRESTRICTIVE SPECIFICATIONS (COMMONLY REFERRED TO AS AN "OPEN" SPECIFICATION) ARE WRITTEN IN SUCH A MANNER AS TO NOT LIMIT COMPETITION, DIRECTLY OR INDIRECTLY, TO ANY ONE SPECIFIC CONCERN. AN "OPEN" SPECIFICATION ALLOWS PRODUCTS OF ANY MANUFACTURER TO BE USED IF THE PRODUCT MEETS THE SPECIFIED REQUIREMENTS.
COMBINATION OF SPECIFICATION METHODS: A COMBINATION OF THE SPECIFICATION METHODS BELOW IS TO BE USED IN THIS PROJECT SO THAT THE RESULTING SPECIFICATION IS NON-RESTRICTIVE (OPEN):
- **DESCRIPTIVE SPECIFICATIONS:** A DESCRIPTIVE SPECIFICATION PROVIDES A WRITTEN DETAIL OF A PRODUCTS PROPERTIES WITHOUT THE USE OF TRADE OR BRAND NAMES.
- **PERFORMANCE SPECIFICATIONS:** PERFORMANCE SPECIFICATIONS SET FORTH THE ENDS TO BE ACHIEVED, NOT THE MEANS OF ACHIEVING THE DESIRED RESULT.
- **REFERENCE STANDARDS:** REFERENCE STANDARDS SPECIFY STANDARDS DEVELOPED BY STANDARDS SETTING ORGANIZATIONS SUCH AS ASTM, STATE OF CALIFORNIA, FEDERAL, ETC. THE VARIOUS MANUFACTURERS MUST MEET THESE STANDARDS.
- **PROPRIETARY SPECIFICATIONS.** PROPRIETARY SPECIFICATIONS IDENTIFY THE DESIRED PRODUCT BY BRAND NAME OR TRADE NAME, MODEL OR STYLE DESIGNATION, AND IMPORTANT CHARACTERISTICS. PROPRIETARY SPECIFICATIONS MAY ALSO INCLUDE THE NAME OF THE MANUFACTURER AND/OR CITY, STATE WHEN NECESSARY TO IDENTIFY THE SOURCE OF A SPECIFIED PRODUCT.

APPROVED EQUAL

ALL PRODUCTS SPECS MAY BE SUBSTITUTED WITH AN "APPROVED EQUAL". FOR CONSIDERATION, ALL PROPOSED "APPROVED EQUAL" PRODUCT SUBMITTALS **MUST BE INCLUDED WITH BID PROPOSAL.** CONTRACTORS SHALL USE NO PRODUCTS OR MATERIALS CONTAINING ASBESTOS CONTAINING MATERIALS (ACM).

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Phase :	**PERMIT SET**
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Plot Scale :	
Project Number :	1659

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PART I GENERAL

1.01 SECTION INCLUDES

A Asphalt roofing shingles.

B Leak barrier and roof deck protection.

C Metal flashing associated with shingle roofing.

D Attic ventilation.

1.02 RELATED SECTIONS

A Section 06100 - Rough Carpentry: Framing, wood decking, and roof sheathing.

B Section 07620 - Flashing and Sheet Metal: Sheet metal flashing not associated with shingle roofing; gutters and downspouts.

C Section 08630 - Unit Skylights: Skylights

1.03 REFERENCES American Society for Testing and Materials (ASTM) - Annual Book of ASTM Standards

1. ASTM A 653/A 653M - Standard Specification for Steel Sheet, Zinc Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
2. ASTM B 209 - Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
3. ASTM B 370 - Standard Specification for Copper Sheet and Strip for Building Construction.
4. ASTM D 3018 - Standard Specification for Class A Asphalt Shingles Surfaced with Mineral Granules.
5. ASTM D 3161 - Standard Test Method for Wind-Resistance of Asphalt Shingles (Fan-Induced Method).
6. ASTM D 3462 – Standard Specification for Asphalt Shingles Made From Glass Felt and Surfaced with Mineral Granules.
7. ASTM D 4586 - Standard Specification for Asphalt Roof Cement, Asbestos-Free.
8. ASTM D 7158 - Standard Test Method for Wind-Resistance of Sealed Asphalt Shingles (Uplift Force/Uplift Resistance Method).
9. ASTM E 903 – Standard Test Method for Solar Absorptance, Reflectance, and Transmission of Materials Using Integrating Spheres. Underwriters Laboratories (UL) - Roofing Systems and Materials Guide (TGFU R1306)
1. UL 790 - Tests for Fire Resistance of Roof Covering Materials.
2. UL 997 - Wind Resistance of Prepared Roof Covering Materials.
3. UL 2218 – Impact Resistance of Prepared Roof Covering Materials.

C Asphalt Roofing Manufacturers Association (ARMA)

D Sheet Metal and Air Conditioning Contractors National Association, 1nc. (SMACNA) - Architectural Sheet Metal Manual.

E National Roofing Contractors Association (NRCA)

F American Society of Civil Engineers (ASCE).

1. ASCE 7 - Minimum Design Loads for Buildings and Other Structures.

B Distinctive self sealing hip and ridge cap shingle complementing the color of selected roof shingle. Each bundle covers approx. 31 lineal feet (9.45m) with an 8 inch (203mm) exposure. **Ridglass™ 12"** Ridge Cap Shingles by GAF®.

C Distinctive self sealing hip and ridge cap shingle complementing the color of selected roof shingle. Each bundle covers approx. 31 lineal feet (9.45m) with an 8 inch (203mm) exposure. **Ridglass™ 10"** Ridge Cap Shingles by GAF®.

D Distinctive self sealing hip and ridge cap shingle complementing the color of selected roof shingle. Each bundle covers approx. 31 lineal feet (9.45m) with an 8 inch (203mm) exposure **Ridglass™ 8"** Ridge Cap Shingles by GAF®.

E Distinctive self sealing hip and ridge cap shingle complementing the color of selected roof shingle. Each bundle covers approx. 25 lineal feet (7.62mm) with a 6 2/3 inch (169mm) exposure. **Seal-A-Ridge®** Ridge Cap Shingles by GAF®.

F Distinctive hip and ridge cap shingle complementing the color of selected roof shingle. Each bundle covers approx. 33.3 lineal feet (10.15m) with a 5 5/8 inch (147mm) exposure. **Z® Ridge** Shingles by GAF®.

G Integrated cap shingle and ridge vent design shingle complementing the color of selected roof shingle. Each bundle covers approx. 20 lineal feet (6.10m) with a 9 ¼ inch (235mm) exposure and provides 10.65 sq. in./linear ft. of net free ventilating area. **Vented RidgeCrest™** Venting Ridge Cap Shingles by GAF®.

2.04 STARTER STRIP

A Self sealing starter shingle designed for premium roof shingles. Each bundle covers approx. 100 lineal feet (30.48m) for English and metric shingles or 50 lineal feet (15.24m) for oversized shingles. **WeatherBlocker™** Eave/Rake Starter Strip by GAF®.

B Self sealing starter shingle designed for all roof shingles. Each bundle covers approx. 120 lineal feet (36.58m). **ProStart™** Starter Strip by GAF®.

2.05 LEAK BARRIER

A Self-adhering, self sealing, bituminous leak barrier surfaced with fine, skid-resistant granules. Approved by UL, Dade County, ICC, State of Florida and Texas Department of Insurance. Each roll contains approx. 150 sq ft (13.9 sq.m.), 36" X 50' (0.9m x 20.3m) or 200 sq ft (18.6 sq.m.), 36" X 66.7' (0.9m x 20.3m). **WeatherWatch®** Leak Barrier**,** by GAF®.

B Self-adhering, self sealing, bituminous leak barrier surfaced with a coated surface and added tack for extra traction. Approved by UL and ICC. Each roll contains approx. 200 sq ft (18.6 sq.m.), 36in. X 66.7ft. (0.9m x 20.3m) **WeatherWatch® XT** Leak Barrier, by GAF®.

C Self-adhering, self sealing, bituminous leak barrier surfaced with a smooth polyethylene film. Approved by UL, Dade County, ICC, State of Florida and Texas Department of Insurance. Each Roll contains approx. 200 sq ft. (18.6 sq.m.), 36" X 66.7' (0.9m x 20.3m), and 60 mils thick. **StormGuard®** Leak Barrier**,** by GAF®.

D Self-adhering, self sealing, SBS modified waterproof leak barrier. Approved by UL, FM, Dade County, and State of Florida. Each roll contains approx. 200 sq ft (18.6 sq.m.), 39.4in. X 67.8ft. (1 m x 20.7m), **UnderRoof™ 2** Waterproof Protection by GAF®.

E Self-adhering air & moisture barrier film surfaced SBS modified flashing. Roll sizes available in 7 different dimensions. Approved by Dade Country and Florida Building Code. **Storm Flash™** Self-Adhering Flashing by GAF®.

2.06 SHINGLE UNDERLAYMENT

A Premium, water repellant, breather type non-asphaltic underlayment. UV stabilized polypropylene construction. Meets or exceeds ASTM D226 and D4869. Approved by

Dade Country, Florida Building Code, and ICC .Each roll contains approximately 10 squares (1003 sq. ft.) of material and is 54" x 223'. **Deck-Armor™** Premium Breathable Roof Deck Protection, by GAF®.

B Synthetic, non-asphaltic, non-woven, anti-skid back coated, polypropylene constructed non breathable underlayment. Meets or exceeds ASTM D226 and D4869 approved by UL, Florida Building Code, ICC and CSA A220.1. Each roll contains approximately 10 squares (1000 gross sq. ft.) of material and is 48 in. x 250 ft. (14.6 m x 76.2 m), **Tiger-Paw™** Roof Deck Protection by GAF®.

C Water repellent, breather type cellulose/glass fiber composite roofing underlayment. Meets or exceed ASTM D226 and D4869 and approved by UL and the Florida Building Code. Each roll contains approximately 4 squares (432 sq. ft.) of material and is 36" x 144" **Shingle-Mate®** Roof Deck Protection, by GAF®.

D Premium, all-purpose fiberglass reinforced SBS modified underlayment. Meets or exceeds ASTM D226. Approved by UL and ICC. Each roll contains 2 squares (20.06 sqm.) of material and is 39.37 in. x 65.8 ft. (1m x 20m), **Roof Pro™** SBS Modified All-Purpose Underlayment by GAF®.

E Non-woven fiberglass mat underlayment coated on both sides suing a highly filled polymer. Provides a fire barrier and water resistant. Approved by Dade Country, Florida Building Code, and ICC approval. **VersaShield®** Fire-Resistant Roof Deck Protection by GAF®.

F #15 Roofing Underlayment – By Others: Water repellent breather type cellulose fiber building paper. Meets or exceeds the requirements of ASTM D-4869 Type I.

G #30 Roofing Underlayment - By Others: Water repellent breather type cellulose fiber building paper. Meets or exceeds the requirements of ASTM D-4869 Type II.

2.07 ROOFING CEMENT

A Asphalt Plastic Roofing Cement meeting the requirements of ASTM D 4586, Type I or II.

2.08 ROOF ACCESSORIES

A Exterior acrylic rust resistant aerosol roof accessory paint. Each 6 oz can is available in boxes of 6 and in a wide variety of colors to compliment the roof. **Shingle-Match™** Roof Accessory Paint by GAF®.

2.09 ATTIC VENTILATION

A Ridge Vents

1. Flexible rigid plastic ridge ventilator designed to allow the passage of hot air from attics, while resisting snow infiltration. For use in conjunction with eave/soffit ventilation products. Provides 12.5 sq inches Net Free Ventilation Area per lineal foot (8065 sq m/m). Each package contains 20 lineal feet (6.10m) of vent. **Cobra® Ridge Runner™** Ridge Vent by GAF®.
2. Flexible ridge ventilator designed to allow the passage of hot air from attics. For use in conjunction with eave/ soffit intake ventilation products. Provides 16.9 inches (1430 mm/m) Net Free Ventilation Area (Hand Nail) and 14.1 inches (1193 mm/m) Net Free Ventilation Area (Nail Gun) per lineal foot. **Cobra® Exhaust Vent**, by GAF®.
3. Rigid plastic ridge ventilator designed to allow the passage of hot air out of attics. For use in conjunction with eave/ soffit intake ventilation products. Provides 18.0 sq inches (11613 sq mm/m) in Net Free Ventilation Area per lineal foot. Each package contains 40 lineal feet (12.19m) of vent. **Cobra® Rigid Vent 3™** ridge vent (includes 3" (76mm) galvanized ring shank nails), by GAF®.
4. Rigid plastic ridge ventilator designed to allow the passage of hot air from attics while prohibiting snow infiltration. For use in conjunction with eave/ soffit intake ventilation products. Provides 18.0 sq inches (11613 sq mm/m) Net Free Ventilation Area per

A Store all products in manufacturer's unopened, labeled packaging until they are ready for installation.

B Store products in a covered, ventilated area, at temperature not more than 110 degrees F (43 degrees C); do not store near steam pipes, radiators, or in direct sunlight.

C Store bundles on a flat surface. Maximum stacking height shall not exceed GAF®'s recommendations. Store all rolls on end.

D Store and dispose of solvent-based materials in accordance with all federal, state and local regulations.

1.11 WEATHER CONDITIONS

A Proceed with work only when existing and forecasted weather conditions will permit work to be performed in accordance with GAF®'s recommendations

1.12 WARRANTY Provide to the owner a **GAF® WeatherStopper® Golden Pledge® Ltd Warranty** covering:

1. Roofs installed by a Certified GAF® Master Elite™ Contractor only.
2. Manufacturing defects: 100% coverage for materials and labor for:
   a Single family detached homes owned by individuals the first
   - 50 years non-prorated, then 20% thereafter for all GAF lifetime shingles.
   - 20 years non-prorated, then 20% thereafter for GAF Marquis Weathermax and GAF Royal Sovereign Shingles.
   b Any other type of owner or building – 40 years with the first 20 years non-prorated. (excludes Marquis WeatherMax and Royal Sovereign)
3. Workmanship errors: 100% coverage for workmanship errors for:
   a Single family detached homes owned by individuals - the first 25 years for after installation. (20 years for Marquis WeatherMax and Royal Sovereign)
   b Any other type of owner or building - 20 years.
4. Roof system NOT installed over an existing roof, all existing roof materials must be removed to the deck.
5. Warranted against algae discoloration for 10 years
6. Full roof installations (Roofs installed on portions of buildings do not qualify) using the following GAF® products.
   a You must use GAF® Roof Deck Protection.
   b You must use eligible GAF® Leak Barrier in valleys and around dormers, sidewalls, firewalls, chimneys, plumbing vents, and skylights. In the North, leak barriers must be used at all eaves at least 24 inch inside warm wall.
   c You must use GAF® pre-cut starter strip products (only those with factory applied adhesive) at the eaves. Note: To obtain bonus wind coverage, you must use GAF® pre cut starter strip products (with factory applied adhesive) at the eaves and rakes and you must install each shingle using 6 nails. For Miami Dade County Florida, no adhesive on rakes. You must cement the starter strip in and nail along the rake.
   d You must use eligible COBRA® ventilation with adequate intake ventilation. Master Flow® exhaust ventilation products can be substituted only if COBRA® ridge ventilation cannot be installed due to a structure's architecture. In any event, adequate ventilation should meet the following requirements:

i. Minimum net free ventilation area of 1 sq ft per 150 sq ft of ceiling area is required. When intake vents are located at the eaves and exhaust vents are located near the roof's peak (in a properly balanced system) for maximum air flow, ventilation may be reduced to 1 sq ft per 300 sq ft. If these standards are not met, GAF® cannot be responsible for damage caused by inadequate ventilation.

e You must use GAF® Ridge Cap Shingles or shingles that correspond to the shingle product you are installing.

f You must use eligible GAF® Roofing Shingles.

g New metal flashings must be installed. Metal drip edge must be used at eaves and is recommended at rake edges.

7. In addition to the requirements listed above, you installer must register and pay for this warranty. On projects that total more than 250 squares, the permanent Golden Pledge® Ltd Warranty will be issued only if the project passes GAF®'s final inspection. GAF® reserves the right to withhold the warranty if the roof has not been installed according to GAF®'s written application instructions. GAF® also strongly recommends that your Master Elite® Contractor schedule a start-up and at least one interim inspection on projects of 250 squares or more by contacting GAF® at least three weeks prior to the start of roof work.

B Provide to the owner a **GAF® Weather Stopper® System Plus Ltd Warranty** covering:

1. Roofs installed by a Authorized Home Builder, Certified Contractor or Certified GAF® Master Elite™ Contractor only.
2. Manufacturing defects: 100% coverage for materials and labor for:
   a Single family detached homes owned by individuals the first
   - 50 years non-prorated, then 20% thereafter for all GAF lifetime shingles.
   - 20 years non-prorated, then 20% thereafter for GAF Marquis Weathermax and GAF Royal Sovereign Shingles.
   b Any other type of owner or building – 40 years with the first 20 years non-prorated. (excludes Marquis WeatherMax and Royal Sovereign)
3. Warranted against algae discoloration for 10 years

C Provide to the owner a **GAF® Smart Choice® Shingle Ltd. Warranty covering:**

1. Manufacturing defects: 100% coverage for materials for:
   a Single family detached homes owned by individuals the first
   - 10 years non-prorated, then 20% thereafter for all GAF lifetime shingles.
   - 5 years non-prorated, then 20% thereafter for GAF Marquis Weathermax and GAF Royal Sovereign Shingles.
   - 3 years non-prorated, then 20% thereafter for GAF Sentinel Shingles.
   b Any other type of owner or building – 40 years with the first 5 years non - prorated.
2. Warranted against algae discoloration for 10 years

D Provide to the owner a **GAF® All American Pledge™ Guarantee**

1. Provide to the owner a GAF® WeatherStopper® Golden Pledge® Ltd Warranty for the Steep Slope System covering:
   a Roofs installed by a Certified GAF® Master Elite™ Contractor only.

b Manufacturing defects: 100% coverage for materials and labor for:
   i. Single family detached homes owned by individuals the first
   - 50 years non-prorated, then 20% thereafter for all GAF lifetime shingles.
   - 20 years non-prorated, then 20% thereafter for GAF Marquis Weathermax and GAF Royal Sovereign Shingles.
   ii. Any other type of owner or building – 40 years with the first 20 years non-prorated. (excludes Marquis WeatherMax and Royal Sovereign)
   c Workmanship errors: 100% coverage for workmanship errors for:
   i. Single family detached homes owned by individuals - the first 25 years for after installation. (20 years for Marquis WeatherMax and Royal Sovereign)
   ii. Any other type of owner or building - 20 years.
2. Roof system NOT installed over an existing roof, all existing roof materials must be removed to the deck.
3. Warranted against algae discoloration for 10 years
4. Provide Manufacturers standard WeatherStopper® Diamond Pledge™ Guarantee for the Low Slop system covering.
   a Single source **Edge-to-Edge** coverage* and no monetary limitation, where the manufacturer agrees to repair or replace components in the roofing system and pre-approved metal edge details, which cause a leak due to a failure in materials or workmanship.
   i Duration: (20) Twenty years from the date of completion

PART II PRODUCTS

2.01 MANUFACTURERS

A Acceptable Manufacturer: GAF®, 1361 Alps Rd. Wayne NJ 07470. Tel: 1-973-628-3000.

B Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.02 SHINGLES

A Self sealing, granule surfaced, asphalt shingle with a strong fiberglass reinforced Micro Weave® core and StainGuard® protection, which prevents pronounced discoloration from blue-green algae through formulation/unique blends of granules. Architectural laminate styling provides a wood shake appearance with a 5 5/6 inch exposure. Features GAF®'s patented High Definition® color blends and enhanced shadow effect. UL 790 Class A rated with UL 997 Wind Resistance Label; ASTM D 7158, Class H; ASTM D 3161, Type 1; ASTM D 3018, Type 1; ASTM D 3462; AC438; CSA A123.5-98; Dade County Approved, Florida Building Code Approved, Texas Dept of Insurance Approved, ICC Report Approval. **Timberline® HD** Lifetime High Definition Shingles, by GAF®.

1. Color: As selected from manufacturers' full range.
2. Color: _____

2.03 HIP AND RIDGE SHINGLES

A High profile self sealing hip and ridge cap shingle matching the color of selected roof shingle. Each bundle covers approx. 20 lineal feet (6.10m). **Timbertex®** Premium Ridge Cap Shingles, by GAF®.

1. Rooftop mounted, square-top designed, high-impact resin exhaust ventilator designed to evacuate hot air from attics. Each vent provides 60 sq in NFVA. **MasterFlow™ RT-65** Passive Roof Louver, by GAF®.
2. Rooftop mounted, slant-back designed, metal exhaust ventilator designed to evacuate hot air from attics. Each vent provides 60 sq in NFVA. **MasterFlow™ SSB 960A** Passive Roof Louver, by GAF®.
3. Rooftop mounted, slant-back designed, high-impact resin exhaust ventilator designed to evacuate hot air from attics. Each vent provides 65 sq in NFVA. **MasterFlow™ IR65** Passive Roof Louver, by GAF®.
4. Rooftop mounted, low-profile square-top designed, high-impact resin exhaust ventilator designed to evacuate hot air from attics. Each vent provides 37 sq in NFVA. **MasterFlow™ IR-61** Passive Roof Louver, by GAF®.
5. Rooftop mounted, square-top, slant-back, metal exhaust ventilator designed to evacuate hot air from attics. Each vent provides 50 sq in NFVA. **MasterFlow™ NSB50A** Passive Roof Louver, by GAF®.
6. Rooftop mounted, square-top metal utility ventilator designed to evacuate hot air from attics, bathrooms, and kitchen ducts. Each vent provides 50 sq in NFVA. **MasterFlow™ RV50A** Metal Utility Vent, by GAF®.

G Gable Louvers

1. Surfaced mounted, flush or recessed one piece integral construction in thermoformed plastic or aluminum. **Masterflow™ DA** Series or SL Series Gable Louver by GAF®.
2. Circular surfaced mounted, one piece integral construction high-impact white plastic mini vent. **Masterflow™ RLSC** Series Circular Louver by GAF®.

H Roof Turbines

1. Rooftop mounted, stainless dual bearing, high performance, aluminum rotary turbine exhaust vents. **MasterFlow™ AIC12 & AIC14** Rotary Turbine Vents by GAF®.
2. Rooftop mounted, stainless dual bearing, high performance, galvanized rotary turbine exhaust vents. **MasterFlow™ GC12E** Rotary Turbine Vent by GAF®.

I Whole House Fans **attic spaces greater than 1000sq ft only**

1. Interior ceiling mounted belt drive deluxe house fan. Super quiet 1/3 hp permanent split capacitor motor, wall switch operated. **MasterFlow™ 30BWHFS** Belt Drive Deluxe Whole House Fan by GAF®.
2. Interior ceiling mounted direct drive standard house fan. Super quiet 1/4 hp permanent split capacitor motor, chain switch operated. **MasterFlow™ WHFS24M** Direct Drive Standard Whole House Fan by GAF®.
3. Interior ceiling mounted tandem whole house fan. 2 speed remote operated. **MasterFlow™ WHFTAN1** Tandem Whole House Fan by GAF®.

2.10 VENTILATION ACCESSORIES

A Chimney Cap

1. Stainless steel vented chimney cap. **MasterFlow™ CC1313SS** Safety Cap by GAF®.
2. Epoxy powder finished vented chimney cap. **MasterFlow™ CC99, CC913 and CC1313** Safety Cap by GAF®
3. Epoxy powder finished adjustable bracket mount vented chimney cap. **MasterFlow™ CC99, CC913 and CC1313** Safety Cap by GAF®.

B Foundation Vent

PINELLAS COUNTY HOUSING AUTHORITY — PROGRESSIVE PINELLAS

RESIDENCE RENOVATION

Pinellas County Housing Authority

12065 134th Pl N
LARGO, FL 33778

MANUFACTURER NOTE

- CONTRACTOR TO FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS, ANY DEVIATION FROM THE PLANS OR SPECS SHALL BE BROUGHT TO THE ARCHITECT AND THE OWNER FOR REVIEW
- CONTRACTOR RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION
- ANY DISCREPANCY BETWEEN MANUFACTURER INSTALLATION INSTRUCTIONS AND DRAWINGS SHALL BE BROUGH TO THE ATTENTION OF THE ARCHITECT OF RECORD FOR CLARIFICATION.

John J. McKenna Architect P.A.

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Sheet Name :	SHINGLES SPECIFICATIONS
Phase :	**PERMIT SET**
Revision :	
Date :	3.3.2017
Drawn by :	Author
Checked by :	Checker
Plot Scale :	
Project Number :	1659

G-3

1. High Density Polyethylene constructed electric foundation vent provides up to 330 CFM/airflow. Independent laboratory approved**. Masterflow™ PFV1** Foundation Vent by GAF®.
2. High Density Polyethylene constructed automatic foundation vent**. Masterflow™ FVRABL** Foundation Vent by GAF®.
3. Die Cast aluminum positive open/closed damper foundation vent. **Masterflow™ 500** Foundation Vent by GAF®.
4. Galvanized steel or aluminum high level ventilation foundation vent. **Masterflow™ BVSII** Foundation Vent by GAF®.

2.11 NAILS

A Standard round wire, zinc-coated steel or aluminum; 10 to 12 gauge, smooth, barbed or deformed shank, with heads 3/8 inch (9mm) to 7/16 inch (11mm) in diameter. Length must be sufficient to penetrate into solid wood at least 3/4 inch (19mm) or through plywood or oriented strand board by at least 1/8 inch (3.18mm).

2.12 METAL FLASHING 24 gauge hot-dip galvanized steel sheet, complying with ASTM A 653/A 653M, G90/Z275.

B 16-oz/sq ft (0.56mm) copper sheet, complying with ASTM B 370.

C 0.032-inch (0.8mm) aluminum sheet, complying with ASTM B 209.

PART III EXECUTION

3.01 EXAMINATION

A Do not begin installation until the roof deck has been properly prepared.

B If roof deck preparation is the responsibility of another installer, notify the architect or building owner of unsatisfactory preparation before proceeding.

3.02 PREPARATION Remove all existing roofing down to the roof deck.

B Verify that the deck is dry, sound, clean and smooth. It shall be free of any depressions, waves, and projections. Cover with sheet metal, all holes over 1 inch (25mm) in diameter, cracks over 1/2 inch (12mm) in width, loose knots and excessively resinous areas.

C Replace damaged deck with new materials.

D Clean deck surfaces thoroughly prior to installation of eaves protection membrane and underlayment.

3.03 PREPARATION Clean deck surfaces thoroughly prior to installation of eaves protection membrane and underlayment.

B At areas that receive eaves protection membrane, fill knotholes and cracks with latex filler.

C Install crickets on the upslope side of all chimneys in the north, any chimney wider than 24" (610mm), and on all roofs steeper than 6/12.

3.04 PREPARATION: Verify that the deck is structurally sound and free of deteriorated decking. All deteriorated decking shall be removed and replaced with new materials.

B Verify that the existing shingles are dry, sound, clean and smooth. All curled, buckled or loose tabs shall be nailed down or removed.

C Clean shingle surfaces thoroughly prior to installation of eaves protection membrane and underlayment.

3.05 INSTALLATION OF UNDERLAYMENTS General:

1. Install using methods recommended by GAF®, in accordance with local building codes. When local codes and application instructions are in conflict, the more stringent requirements shall take precedence.

B Eaves:

1. Install eaves edge metal flashing tight with fascia boards; lap joints 2 inches (51mm) and seal with plastic cement or high quality urethane sealant; nail at the top of the flange.
2. In the north, and on all roofs between 2/12 and 4/12 (low slopes) install GAF® leak barrier up the slope from eaves edge a full 36 inches (914mm) or to at least 24 inches (610 mm) beyond the interior "warm wall". Lap ends 6 inches (152mm) and bond.

C Valleys:

1. Install eaves protection membrane at least 36 (914mm) inches wide and centered on the valley. Lap ends 6 inches (152mm) and seal.
2. Where valleys are indicated to be "open valleys", install metal flashing over GAF® leak barrier before GAF® roof deck protection is installed; DO NOT nail through the flashing. Secure the flashing by nailing at 18 inches (457 mm) on center just beyond edge of flashing so that nail heads hold down the edge.

D Hips and Ridges:

1. Install GAF® leak barrier along entire lengths. If ridge vents are to be installed, position the GAF® leak barrier so that the ridge slots will not be covered.

E Roof Deck:

1. Install one layer of GAF® roof deck protection over the entire area not protected by GAF® leak barrier at the eaves or valley. Install sheets horizontally so water sheds and nail in place.
2. On roofs sloped at more than 4:12, lap horizontal edges at least 2 inches (51mm) and at least 2 inches (51mm) over eaves protection membrane.
3. On roofs sloped between 2 :12 and 4:12, lap horizontal edges at least 19 inches (482 mm) and at least 19 inches (482mm) over eaves protection membrane.
4. Lap ends at least 4 inches (102 mm). Stagger end laps of each layer at least 36 inches (914 mm).
5. Lap GAF® roof deck protection over GAF® leak barrier in valley at least 6 inches (152mm).

F Deck-Armor™ Application

1. Deck-Armor shall be installed over a clean, dry deck.
2. Install Weather Watch® or StormGuard® Leak Barrier at eaves, valleys, rakes, skylights, dormers and other vulnerable leak areas.
3. Lay Deck-Armor™ over deck and overlap 3" (76mm) at side laps and 6" (152mm) at end laps.
4. For exposure to rain or snow, overlap 12" (305mm) at end laps.
5. For side and end laps: fasten Deck-Armor 12" (305mm) o.c. (6" (152mm)o.c. for high wind areas).
6. For middle of the roll: fasten Deck-Armor 24" (610mm) o.c. (12" (305mm) o.c. for high wind areas).

7. For exposure to rail or snow, completely cover all side laps, end laps and fasteners with tape.
8. For long term exposure see complete Deck-Armor installation instructions for side lap detail.
9. If roof may be exposed to high winds, apply tape over all fasteners at the center of the roll to prevent rain or snow from entering at the fasteners.
10. For slopes less that 2:12, a double application of Deck-Armor is required. See complete Deck-Armor installation instructions for more information.

G Penetrations:

1. Vent pipes: Install a 24 inch (610 mm) square piece of eaves protection membrane lapping over roof deck underlayment; seal tightly to pipe.
2. Vertical walls: Install eaves protection membrane extending at least 6 inches (152mm) up the wall and 12 inches (305mm) on to the roof surface. Lap the membrane over the roof deck underlayment.
3. Skylights and roof hatches: Install eaves protection membrane from under the built-in counterflashing and 12 inches (305mm) on to the roof surface lapping over roof deck underlayment.
4. Chimneys: Install eaves protection membrane around entire chimney extending at least 6 inches (152mm) up the wall and 12 inches (305mm) on to the roof surface. Lap the membrane over the roof deck underlayment.
5. Rake Edges: Install metal edge flashing over eaves protection membrane and roof deck underlayment; set tight to rake boards; lap joints at least 2 inches (51mm) and seal with plastic cement; secure with nails.

3.06 INSTALLATION OF STARTER SHINGLES

A General:

1. Install in accordance with GAF®'s instructions and local building codes. When local codes and application instructions are in conflict, the more stringent requirements shall take precedence.
2. Refer to application instructions for the selected starter strip shingles.

B Placement and Nailing:

1. For maximum wind resistance along rakes & eaves, install any GAF® starter strip containing sealant or cement shingles to underlayment and each other in a 4" (102mm) width of asphalt plastic roof cement.
2. Place starter strip shingles 1/4" – 3/4" (6 – 19mm) over eave and rake edges to provide drip edge.
3. Nail approximately 1-1/2" – 3" (38 – 76mm) above the butt edge of the shingle.
4. Rake starter course should overlap eave edge starter strip at least 3" (76mm).

3.07 INSTALLATION OF SHINGLES

A General:

1. Install in accordance with GAF®'s instructions and local building codes. When local codes and application instructions are in conflict, the more stringent requirements shall take precedence.

2. Minimize breakage of shingles by avoiding dropping bundles on edge, by separating shingles carefully (not by "breaking" over ridge or bundles), and by taking extra precautions in temperatures below 40 degrees F (4 degrees C).
3. Handle carefully in hot weather to avoid scuffing the surfacing, or damaging the shingle edges.

B Placement and Nailing: Secure with 4, 5, or 6 nails per shingle per GAF®'s application instructions or local codes.

2. Placement of nails varies based on the type of shingle specified. Consult the application instructions for the specified shingle for details.
3. Nails must be driven flush with the shingle surface. Do not overdrive or under drive the nails.
4. Shingle offset varies based on the type of shingle specified. Consult the application instructions for the specified shingle for details.

C Placement and Nailing: Beginning with the starter strip, trim shingles so that they "nest" within the shingle located beneath it. This procedure will yield a first course that is typically 3 inch (76mm) to 4 inch (102mm) rather than a fully exposed shingle.

2. Laterally, offset the new shingles from the existing keyways, to avoid waves or depressions caused by excessive dips in the roofing materials.
3. Using the bottom of the tab on existing shingles, align subsequent courses.
4. *Note: DO NOT install standard sized shingles (5inch exposure) over metric (5 5/8 inch exposure) shingles, as it will overexpose the shingles and reveal the nails. Use standard alignment methods to assure proper shingle placement.
5. Secure with 4, 5, or 6 nails per shingle per GAF®'s instructions or local codes.
6. Placement of nails varies based on the type of shingle specified. Consult the application instructions for the specified shingle for details.
7. Nails must be driven flush with the shingle surface. Do not overdrive or under drive the nails.
8. Shingle offset varies based on the type of shingle specified. Consult the application instructions for the specified shingle for details.

D Valleys Install valleys using the "open valley" method:

a Snap diverging chalk lines on the metal flashing, starting at 3 inches (76mm) each side of top of valley, spreading at 1/8 inch per foot (9mm per meter) to the eaves.

b Run shingles to chalk line.

c Trim last shingle in each course to match the chalk line; do not trim shingles to less than 12 inches (305mm) wide.

d Apply a 2 inch (51mm) wide strip of plastic cement under ends of shingles, sealing them to the metal flashing.

2. Install valleys using the "closed cut valley" method:

a Run the first course of shingles from the higher roof slope across the valley at least 12 inches (305mm).

b Run succeeding courses of shingles from the lower roof slope across the valley at least 12 inches (305mm) and nail not closer than 6 inches (152mm) to center of valley.

c Run shingles from the upper roof slope into the valley and trim 2 inches (51mm) from the center line.

3. Install valleys using "woven valley" method: Run shingles from both roof slopes at least 12 inches (305mm) across center of valley, lapping alternate sides in a woven pattern.

b DO NOT nail less than 6 inches (152mm) from the valley center line.

E Penetrations

1. All Penetrations are to be flashed according to GAF®, ARMA and NRCA application instructions and construction details.

F Skylights and Roof Hatches

1. Consult the manufacturer of the skylight or roof hatch for specific installation recommendations.
2. Skylights and roof hatches shall be installed with pre-fabricated metal flashings specifically designed for the application of the unit.

3.08 INSTALLATION OF ATTIC VENTILATION

A General

1. Ventilation must meet or exceed current F.H.A., H.U.D. and local code requirements.

B Ridge / Soffit ventilation

1. Install ridge vent along the entire length of ridges:
2. Cut continuous vent slots through the sheathing, stopping 6 inches (152mm) from each end of the ridge.
3. On roofs without ridge board, make a slot 1 inch (25mm) wide, on either side of the peak (2 inch (51mm) overall).
4. On roofs with ridge board, make two slots 1-3/4 inches (44.5mm) wide, one on each side of the peak (3 ½ inch (89mm) overall).
5. Install ridge vent material along the full length of the ridge, including uncut areas.
6. Butt ends of ridge vent material and join using roofing cement.
7. Install eaves vents in sufficient quantity to equal or exceed the ridge vent area.

C Roof and Gable Louvers:

1. Cut vent hole through sheathing as specified by the manufacturer for the type of vent to be installed.
2. Install a 24 inches (610mm) square of leak barrier, centered around the hole for roof louvers
3. Install according to manufacturers instructions for flashing vent penetrations
4. Install eave vents in sufficient quantity to equal or exceed the exhaust vent area, calculated as specified by manufacturer.

D Powered (& Solar Powered) Ventilators & Roof turbines:

1. Cut vent hole through sheathing as specified by the manufacturer for the type of vent to be installed.
2. On rooftop applications, install a 36 inches (914mm) square of leak barrier, centered around the hole
3. Install according to manufacturers instructions for flashing vent penetrations

4. Install eave vents in sufficient quantity to equal or exceed the exhaust vent area, calculated as specified by manufacturer

E Whole House Fans

1. Install at desired locations in ceiling below attic space per manufacturer recommended location and application instructions.

3.09 INSTALLATION OF VENTILATION ACCESSORIES

A Chimney Caps

1. Install chimney caps to manufacturer recommendations

B Foundation Vents

1. Install foundation vents per manufacturer recommendations and applications.

3.10 PROTECTION

A Protect installed products from foot traffic until completion of the project.

B Any roof areas that are not completed by the end of the workday are to be protected from moisture and contaminants.

END OF SECTION

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PINELLAS COUNTY HOUSING AUTHORITY — PROGRESSIVE PINELLAS

RESIDENCE RENOVATION

Pinellas County Housing Authority

12065 134th Pl N
LARGO, FL 33778

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Sheet Name :	SHINGLES SPECIFICATIONS
Phase :	**PERMIT SET**
Revision :	
Date :	3.3.2017
Drawn by :	Author
Checked by :	Checker
Plot Scale :	
Project Number :	1659

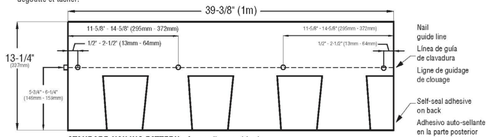
G-4

NAILING INSTRUCTIONS / HAND-SEALING
INSTRUCCIONES DE CLAVADURA / SELLADO A MANO
INSTRUCTIONS DE CLOUAGE / SCELLEMENT À LA MAIN

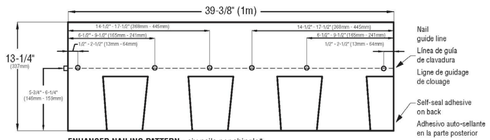
These shingles MUST be nailed a nominal 6" (152mm) from bottom of shingle, above the cut-outs, as shown. Nails must not be exposed. To hand-seal shingles and to insure immediate sealing, apply 4 quarter-sized dabs of shingle tab adhesive on the back of the shingle 1" (25mm) and 13" (330mm) in from each side and 1" (25mm) up from bottom of the shingle. Press shingle firmly into the adhesive. **CAUTION:** Apply ONLY a thin uniform layer of asphalt plastic cement less than 1/8" (3mm) thick. Excess amounts can cause blistering of the shingles and may soften the asphalt in underlayments and leak barriers, resulting in the asphalt dripping and staining.

Estas tejas DEBEN clavarse un nominal 6" (152mm) de la parte inferior de la teja, por encima de los recortes, como se muestra. Clavos no deben ser expuestos. Para entregar tejas sello y para asegurar sellado inmediato, aplica 4 toques suaves cuarto-calibrados de adhesivo de etiqueta de tablilla en la espalda de la tablilla 1" (25 mm) y 13" (330 mm) en de cada lado y 1" (25 mm) arriba de fondo de la tablilla. Presione firmemente sobre el adhesivo. **ATENCIÓN:** Aplique SOLAMENTE una capa fina y uniforme de cemento asfáltico de plástico menos de 1/8 (3mm) de espesor. Cantidades excesivas puede causar ampollas de la culebrilla y puede ablandar el asfalto en las capas de base y las barreras de fugas, lo que resulta en el asfalto de goteo y las manchas.

Ces bardeaux DOIVENT être cloués à une distance nominale de 152mm (6po) de leur base, au-dessus des portions découpées, comme indiqué. Les clous ne doivent pas être exposés. Pour transmettre les bardeau le cachet et assurer sceller immédiat, appliquer 4 taches de quart-calibré d'adhésif d'étiquette de bardeau sur le dos du bardeau 1" (25 mm) et 13" (330 mm) en de chaque côté et 1" (25 mm) en haut du fond du bardeau. Pour assurer sceller immédiat, appuyer le bardeau fermement dans l'adhésif. **PRUDENCE:** S'appliquer SEULEMENT une couche uniforme mince d'asphalte ciment en plastique moins que 1/8" (3 mm) épais. Les quantités supplémentaires peuvent causer peler des bardeaux et peuvent amollir l'asphalte dans GAF underlayments et les barrières de fuite de GAF, avoir pour résultat l'asphalte qui dégoutte et tacher.

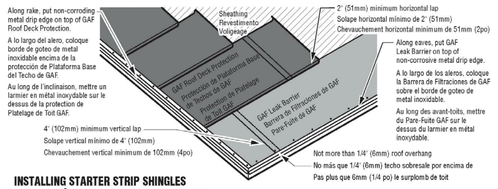


STANDARD NAILING PATTERN - four nails per shingle
ESQUEMA DE CLAVADURA ESTÁNDAR - cuatro clavos por teja
PATRON DE CLOUAGE STANDARD - quatre clous par bardeau



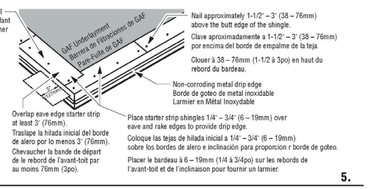
ENHANCED NAILING PATTERN - six nails per shingle*
*required by some local codes and required for enhanced wind coverage on certain products. See limited warranty for details.
MODELO DE CLAVADURA AUMENTADO - seis clavos por teja*
*requerido por algunos códigos locales y requerido para cobertura aumentada contra el viento en ciertos productos. garantía limitada Ver para los detalles.
PATRON DE CLOUAGE ACCRU - six clous par bardeau*
*requis par certains codes locaux pour une couverture accrue contre les vents sur certains produits. garantie limitée Voir pour des détails.

UNDERLAYMENT: FOR ROOF SLOPES 4:12 OR MORE
Application of eave flashing: At eaves and where ice dams can be expected, use one layer of GAF Leak Barrier. Eave flashing must extend 24" (610mm) beyond the inside wall line. **Application of underlayment:** Cover deck with one layer of GAF Roof Deck Protection installed without wrinkles. Use only enough nails to hold underlayment in place until covered by shingles.
CAPA BASE: PARA TECHOS CON PENDIENTES DE 4:12 O MÁS
Aplicación de vierteaguas para aleros: En los aleros y donde se pueda esperar la presencia de estancamientos de hielo, use una Capa de Barrera de Filtraciones de GAF. El vierteaguas para aleros extenderse 24" (610mm) más allá de la línea interior de la pared.
Aplicación de capa base: Cubra la plataforma base con una capa de capa base de GAF instalada sin arrugas. Use solamente la cantidad suficiente de clavos como para sostener la capa base en su lugar hasta que la haya cubierto con las tejas.
MEMBRANE DE PROTECTION: FOR ROOF PENTES DE 4:12 OU PLUS
Application de solin d'avant-toit: Au niveau des avant-toits et aux endroits où les accumulations de glace peuvent survenir, veuillez utiliser une couche Pare-Fuite de GAF. Le solin d'avant-toit doit s'étendre de 24po (610mm) au-delà de la ligne du mur intérieur. **Application d'une membrane de protection:** Couvrir le plateforme avec une couche de Protection de Plateforme de Toit GAF installée sans plissement. Utiliser suffisamment de clous pour maintenir en place la membrane de protection jusqu'à ce qu'elle soit recouverte de bardeaux.



INSTALLING STARTER STRIP SHINGLES
INSTALACIÓN DE TEJAS DE HILADA INICIAL
INSTALLATION DES BARDEAUX DE BANDE DE DÉPART

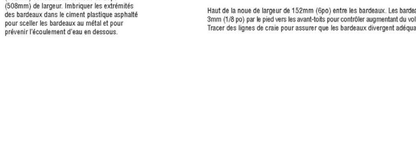
STARTER COURSE
Use GAF starter strip shingles along the eaves and rake. Apply as shown. **NOTE:** GAF starter strip shingles are recommended at the rakes for best performance and required for enhanced warranty coverage on certain products (see limited warranties for details). Refer to application instructions for the selected starter strip shingles.
HILADA INICIAL
Use tejas de hilera inicial de GAF en los aleros. Aplicar como se muestra las inclinaciones. **NOTA:** Se recomienda usar tejas de hilera inicial de GAF en las inclinaciones para mejor rendimiento y se requiere para cobertura de la garantía contra el viento en ciertos productos (consulte la garantía limitada para detalles). Siga las instrucciones de aplicación de tejas de hilada inicial.
RANG DE DÉPART
Utiliser les bardeaux de bande de départ de GAF le long des avant-toits et inclinaison. Appliquer tel qu'indiqué. **REMARQUE:** Les bardeaux de bande de départ GAF sont recommandés aux inclinaisons pour une meilleure performance et sont requis pour une couverture de garantie accrue contre les vents sur certains produits (voir la garantie limitée pour les détails). Suivre les instructions d'application des bardeaux de bande de départ.



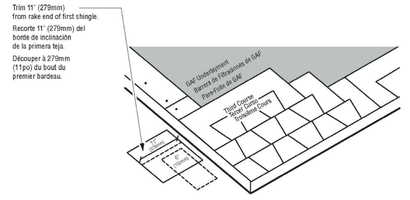
INSTALLING SHINGLES
INSTALACIÓN DE TEJAS
INSTALLATION DES BARDEAUX

FIRST COURSE
Shingle exposure should be 5-5/8" (143mm)
PRIMERA HILADA
La exposición de la tablilla debe ser 5-5/8" (143mm)
PREMIER RANG
L'exposition de bardeau devrait être 143mm (5-5/8po)

SECOND COURSE
Position the shingles in the second and subsequent courses flush with the tops of the wide cut-outs. This results in a 5-5/8" (143mm) exposure.
SEGUNDA HILADA
Coloque las tejas en la segunda hilada y subsiguientes a ras con las partes superiores de los cortes amplios. Esto resulta en una exposición de 5-5/8" (143mm).
SECOND RANG
Positionner les bardeaux dans le second rang et les rangs subséquents à effleurement avec les dessus des larges découpes. Cela résulte en un pureau de 143mm (5-5/8po).



THIRD COURSE
TERCERA HILADA
TROISIÈME RANG



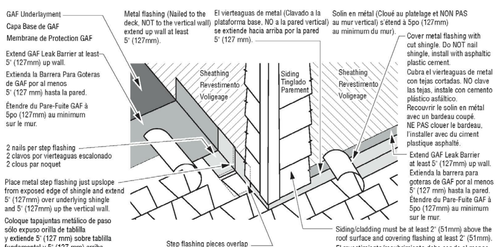
4TH COURSE AND REMAINING
Strike a chalk line about every 6 courses to check parallel alignment with eaves.
4TA. HILADA Y RESTANTES
Trace una línea de tiza aproximadamente cada 6 hiladas para controlar la alineación paralela con los aleros.
4ÈME RANG ET LES RANGS RESTANTS
Tracer une ligne de craie à environ tous les 6 rangs pour vérifier l'alignement en parallèle avec les avant-toits.

INSTALLING ROOF ACCESSORIES AND DETAILS
INSTALACIÓN DE ACCESORIOS Y DETALLES DE TECHO
INSTALLATION DES PRODUITS ROOF ACCESSORIES ET DÉTAILS

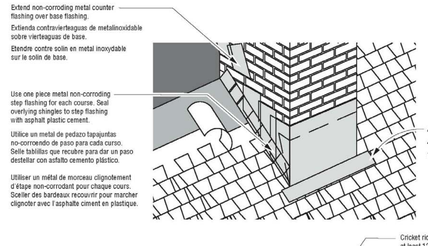
VENTILATION
Install GAF ventilation products for optimal shingle life. See General Instructions and the "Through Ventilation" section. Follow the application instructions for the selected ventilation products.
VENTILACIÓN
Instale productos de ventilación de GAF para una óptima vida útil de la teja. Consulte las Instrucciones Generales y la sección "A Través de la Ventilación". Siga las instrucciones de aplicación de los productos de ventilación seleccionados.
VENTILATION
Installer des produits de ventilation GAF pour une durée de vie optimale. Voir les Instructions Générales dans la section «Aération de Bâtiment». Suivre les instructions d'application pour les produits de ventilation sélectionnés.

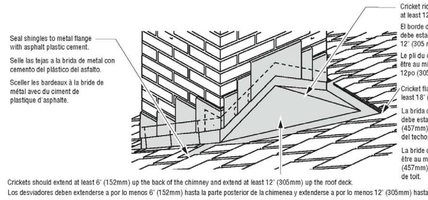
RIDGE CAP SHINGLES
Install GAF Ridge Cap Shingles following the application instructions shown on the GAF Ridge Cap Shingle wrapper. Position laps away from prevailing wind direction.
TEJAS DE CUMBRERA
Instale las Tejas de Cumbrera de GAF siguiendo las instrucciones de aplicación que figuran en el envoltorio de las Teja de Cumbrera de GAF. Coloque los solapes lejos de la dirección del viento predominante.
BARDEAUX DE FAÎTAGE
Installer des Bardeaux de Faîtage de GAF suivre les instructions d'installation montrées sur l'emballage des Bardeau de Faîtage de GAF. Positionner les chevauchements loin de direction des vents dominants.

WALL FLASHING (Sloped Roof to Wall)
VIERTEAGUAS DE PARED (Techo en Pendiente hacia la Pared)
SOLINS MURAUX (de Toit en Pente à Mur)



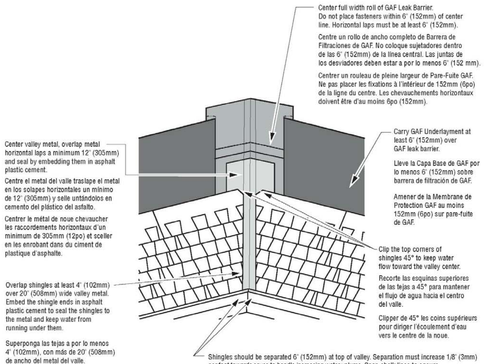
CHIMNEY FLASHING AND CRICKETS
Cover deck around chimney and over wood crickets with GAF Roof Deck Protection. DO NOT run GAF Roof Deck Protection up sides of chimney. Install leak barrier over GAF Roof Deck Protection and up sides of chimney at least 5" (127 mm). Install shop fabricated metal cricket flashings (shown) after underlayments are installed. Seal shingles to the metal flanges (see drawing below). Treat large wooden crickets like a separate roof and install valleys, shingles, hip and ridge shingles and step flashing.
VIERTEAGUAS DE CHIMENEA Y DESVIADOR
Cubra alrededor de la chimenea y sobre los desviadores en pico de madera con protección de plataforma de techos de GAF. NO coloque protección de plataforma base de techos de GAF por los laterales de la chimenea. Instale la barrera de filtraciones sobre la protección de plataforma de techos de GAF y a los costados de la chimenea a un mínimo de 5" (127mm). Instale los vierteagua de los desviadores de metal fabricados (que se muestran) después de instalar las capas base. Selle las tejas a las bridas de metal (ver ilustración debajo). Trate los desviadores grandes de madera como un techo por separado e instale los valles, tejas, tejas de cumbreras y bordes y vierteaguas de paso.
SOLIN DE CHEMINÉE ET DOS D'ÂNE
Couvrir le plateforme autour de la cheminée et sur les dos d'âne en bois avec de la protection pour plateforme de toit de GAF. NE PAS faire courir de la protection de plateforme de toit GAF sur les côtés de la cheminée. Installer du pare-fuite sur la protection de plateforme de toit GAF et sur les côtés de la cheminée à un minimum de 5po (127mm). Installer des dos d'âne pour cheminée en métal fabriqués en usine (illustré) après que les membranes de protection soient installées. Sceller les bardeaux aux brides de métal (voir les illustrations ci-dessous). Traiter les gros dos d'âne en bois comme une toiture séparée et installer des noues, bardeaux, bardeaux de faîtière et d'arêtiers et noquet.



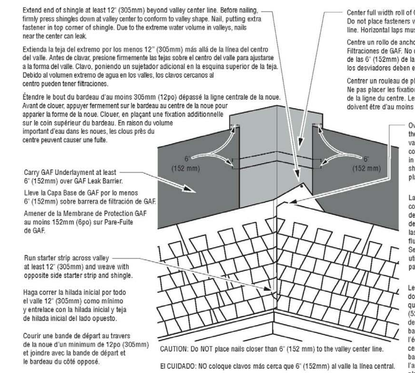


Crickets should extend at least 6" (152mm) up the back of the chimney and extend at least 12" (305mm) up the roof deck.
Los desviadores deben extenderse a por lo menos 6" (152mm) hasta la parte posterior de la chimenea y extenderse a por lo menos 12" (305mm) hasta la cubierta del techo.
Les dos d'âne doivent s'étendre au minimum de 6po (152mm) vers l'arrière de la cheminée et s'étendre au minimum de 12po (305mm) vers le pan du toit.

VALLEY CONSTRUCTION – OPEN
Use minimum 20" (508mm) wide aluminum, galvanized steel, copper, or other non-corroding, non-staining metals (24 gauge minimum). Long valleys or local building codes may require wider metal. Nail the metal on the edges so the nail heads hold it in place. Do not puncture the metal. Nailing through the metal may cause leaking and buckling due to movement.
CONSTRUCCIÓN DEL VALLE – DE CORTE ABIERTO
Use un ancho mínimo de 20" (508mm) de aluminio, acero galvanizado, cobre y otro metal inoxidable que no manche (calibre 24 como mínimo). Los valles largos o los códigos locales de construcción pueden requerir un metal más ancho. Clave el metal en los bordes de modo tal que las cabezas de los clavos sostengan el metal en su lugar. No perfore el metal. Clavar a través del metal puede causar filtraciones y ampollamiento debidos al movimiento.
CONSTRUCTION DE NOUE – NOUE OUVERTE
Utiliser de l'aluminium de largeur de 20po (508mm), de l'acier galvanisé, du cuivre ou autres métaux qui ne tachent pas et ne rouillent pas, (de calibre 24 au minimum). Des noues plus longues ou les codes locaux peuvent nécessiter un métal plus large. Clouer le métal sur les rebords afin que les têtes de clous le tiennent en place. Ne pas percer le métal. Clouer au travers du métal peut causer des fuites et des bombements dus au mouvement.



VALLEY CONSTRUCTION – CLOSED CUT
CONSTRUCCIÓN DEL VALLE – CORTE CERRADO
CONSTRUCTION DE NOUE FERMÉE – COUPE FERMÉE



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PINELLAS COUNTY HOUSING AUTHORITY
PROGRESSIVE PINELLAS

RESIDENCE RENOVATION

Pinellas County Housing Authority

12065 134th Pl N
LARGO, FL 33778

MANUFACTURER NOTE

- CONTRACTOR TO FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS, ANY DEVIATION FROM THE PLANS OR SPECS SHALL BE BROUGHT TO THE ARCHITECT AND THE OWNER FOR REVIEW
- CONTRACTOR RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION
- ANY DISCREPANCY BETWEEN MANUFACTURER INSTALLATION INSTRUCTIONS AND DRAWINGS SHALL BE BROUGH TO THE ATTENTION OF THE ARCHITECT OF RECORD FOR CLARIFICATION.

John J. McKenna Architect P.A.
600 N. WILLOW ST. SUITE 300
TAMPA, FLORIDA 33606
PHONE : 813.258.5559
FLORIDA LICENSE - AA C00177.4
E-MAIL : mckenna42@verizon.net

Sheet Name :	SHINGLES INSTALLATION INSTRUCTIONS
Phase :	**PERMIT SET**
Revision :	
Date :	3.3.2017
Drawn by :	Author
Checked by :	Checker
Plot Scale :	
Project Number :	1659

G-5

ALL-AMERICAN PLEDGE™ ROOF GUARANTEE

No._____

OWNER: _____

BUILDING AND ADDRESS: _____

LOW-SLOPE ROOF: SPECIFICATION: _____ STEEP-SLOPE ROOF: SHINGLE: _____

LOW-SLOPE ROOF: _____ SQS. STEEP-SLOPE ROOF: _____ SQS.

APPLIED BY: _____

DATE OF COMPLETION: _____ GUARANTEE EXPIRATION DATE: _____

LOW-SLOPE ROOF SYSTEM – GUARANTEE

THE GUARANTEE/SOLE AND EXCLUSIVE REMEDY

GAF guarantees to you, the original owner of the building described above, that GAF will provide "Edge To Edge" protection by repairing leaks through the GAF roofing membrane, liquid-applied membrane or coating, base flashing, high wall waterproofing flashing, insulation, expansion joint covers, preflashed accessories, and metal flashings used by the contractor of record that meet SMACNA standards (the "GAF Roofing Materials") resulting from a manufacturing defect, ordinary wear and tear, or workmanship in applying the GAF Roofing Materials. There is no dollar limit on covered repairs. Leaks caused by any materials other than those listed above, such as the roof deck, non-GAF insulation, or any other materials used in the construction of the low-slope roof system, are not covered.

LOW-SLOPE ROOF SYSTEM – GUARANTEE PERIOD

This guarantee term for your Low-Slope Roof System lasts for _____ years from the date of completion. NOTE: Lexsuco® and uncoated M-Curb™ flashings are covered by this guarantee **ONLY** for the first ten years.

STEEP-SLOPE ROOF SYSTEM – THE LIMITED WARRANTY

WHAT IS COVERED/EXCLUDED

This warranty covers certain GAF Steep-Slope roofing products installed on your roof including GAF Shingles, GAF Ridge Cap Shingles, GAF Starter Strip Shingles, GAF Leak Barrier, GAF Roof Deck Protection, and GAF Cobra® Attic Ventilation (the "GAF Products"). This warranty does not cover ShingleMatch™ Roof Accessory Paint, Master Flow® Attic Ventilation, or any non-GAF roof products, such as roofing nails. Misapplication of your GAF Products and flashings at valleys, dormers, chimneys, and plumbing vents (the "Covered Flashings") is also covered.

MANUFACTURING DEFECTS: LIFETIME SHINGLES

All GAF Shingles covered by this warranty, other than Royal Sovereign® and Marquis® WeatherMax® Shingles, carry a Lifetime warranty against manufacturing defects and a non-prorated period of 50 years. (Note: This limited warranty is not available for roofs with Sentinel® Shingles.) The word "Lifetime" means as long as you, the original owner(s) (or the second owner(s) if coverage was properly transferred within the first 20 years), own the property where the shingles are installed. The Lifetime warranty term and 50-year non-prorated period are applicable only to shingles installed on a single-family detached residence owned by individual(s). For any other type of owner or building, such as a corporation, government entity, religious entity, condominium, or homeowner association, school, apartment building, office building, or multi-use structure, the length of the warranty is 40 years and the non-prorated period is 20 years.

MANUFACTURING DEFECTS: OTHER SHINGLES

Marquis® WeatherMax® Shingles are warranted against manufacturing defects for 30 years; Royal Sovereign® Shingles are warranted for 25 years. The non-prorated period is 20 years for both Marquis® WeatherMax® and Royal Sovereign® Shingles.

MISAPPLICATION: GAF PRODUCTS AND COVERED FLASHINGS

When Lifetime Shingles are installed in the field of the roof, coverage for application errors, including the misapplication of Covered Flashings, lasts for the first 25 years after installation for single family detached residences owned by individual(s). For other types of owners or buildings and for shingles other than Lifetime Shingles, coverage lasts for 20 years.

FAILURE TO SEAL/BLOW-OFFS/WIND DAMAGE

Coverage lasts for 15 years.

ALGAE DISCOLORATION

All StainGuard®-labeled shingles and ridge cap shingles are warranted against algae discoloration for 10 years.

MANUFACTURING DEFECTS: WHAT IS COVERED/SOLE AND EXCLUSIVE REMEDY

GAF Warranty Company, LLC, a subsidiary of GAF, warrants that your GAF Products will remain free from manufacturing defects and that your GAF Products and Covered Flashings will remain free from application errors that adversely affect their performance during the applicable warranty term listed above. Note: Failure to seal/blow-offs/wind damage and algae discoloration are covered separately below.

(a) During the non-prorated period: If any of your GAF Products are found to have a manufacturing defect or there is an application error in installing your GAF Products or Covered Flashings that adversely affect performance, GAF will pay you the full reasonable cost of labor to repair or re-cover the affected GAF Products or Covered Flashings, and will provide replacement products. The costs of labor to tear off some or all of your GAF Products and disposal are included if necessary to repair your roof.

(b) After the non-prorated period: The repair or re-cover cost which GAF will pay, and the roof products to be provided, will be reduced to reflect the amount of use you have received from your roof through the date of your claim. The amount of use will be calculated by dividing the number of months which have elapsed since installation to the date of the claim by the number of months in the guarantee term.

For a Lifetime warranty, GAF's contribution in years 51 and beyond will be 20%.

MISAPPLICATION: WHAT IS COVERED/SOLE AND EXCLUSIVE REMEDY

If any of your GAF Products or Covered Flashings is found to have application errors that adversely affect performance, GAF will arrange to have your roof repaired or re-covered or, at its sole option, will provide you with replacement roofing product(s) and reimburse you for the full reasonable cost of labor and other materials to repair or re-cover your roof, including Covered Flashings. The costs of labor to tear off some or all of your GAF Products and Covered Flashings and disposal are included if necessary to repair your roof.

After the non-prorated period, GAF's maximum liability for any roof shall NOT exceed three times the reasonable cost of replacement GAF Products before any reduction for use.

FAILURE TO SEAL/BLOW-OFFS/WIND DAMAGE: WHAT IS COVERED/SOLE AND EXCLUSIVE REMEDY

This Failure To Seal/Blow-Offs/Wind Damage Warranty is **specifically conditioned** on your shingles or ridge cap shingles being fastened and installed **strictly** in accordance with GAF's application instructions. GAF warrants to you that your shingles and ridge cap shingles will not fail to seal and that your other GAF Products will not blow off or sustain damage from winds (including gusts) up to the applicable wind speed listed below after your shingles and ridge cap shingles should have sealed but did not due to a manufacturing defect. If your shingles and ridge cap shingles do fail to seal, blow off, or suffer wind damage, or your other GAF Products blow off or sustain damage from winds, GAF's contribution to you will be for the reasonable costs of replacing the blown-off shingles or ridge cap shingles and other affected GAF Products and hand-sealing any unsealed shingles or ridge cap shingles. Costs relating to metal work and flashings are not included. GAF's maximum liability under this paragraph is to reimburse you for the cost of hand-sealing all of the shingles or ridge cap shingles on your roof.

Shingle	Wind Speed Coverage with special installation (mph/km/h)	Wind Speed Coverage without special installation (mph/km/h)
All GAF Lifetime Shingles	130/209*	110/175
Marquis® WeatherMax®	80/130	80/130
Royal Sovereign®	60/96	60/96

*Your roof will be covered up to the maximum wind speed above **ONLY** if your shingles are installed using **6 nails** per shingle **and** you have GAF Starter Strip Products installed at the eaves **and** rakes.

Ridge Cap Shingle	Wind Speed Coverage with special installation (mph/km/h)	Wind Speed Coverage without special installation (mph/km/h)
Timbertex® & Ridglass®	130/209*	110/175
All other GAF Ridge Cap Shingles	90/144*	70/112

*Your ridge cap shingles will be covered up to the maximum wind speed above **ONLY** if your ridge cap shingles are installed in strict accordance with the "Maximum Wind Speed Coverage Under Ltd. Warranty" section of the applicable ridge cap shingle application instructions.

SEE LIMITATIONS AND EXCLUSIONS ON REVERSE (Continued on reverse)

Note: All self-sealing shingles and ridge cap shingles, including GAF's, must be exposed to warm, sunny conditions for several days before they completely seal. Before sealing occurs, shingles and ridge cap shingles are vulnerable to blow-offs and wind damage. Shingles or ridge cap shingles installed in Fall or Winter may not seal until the following spring. Shingles or ridge cap shingles that are not exposed to direct sunlight or to adequate surface temperatures or that are not fastened properly may never seal. Failures to seal, blow-offs, and wind damage under these circumstances result from the nature of self-sealing shingles and ridge cap shingles, not a manufacturing defect, and are not covered under this warranty.

ALGAE DISCOLORATION: WHAT IS COVERED/SOLE AND EXCLUSIVE REMEDY

This StainGuard® Limited Warranty applies only to shingles and ridge cap shingles sold in packages bearing the StainGuard® logo. GAF warrants to you that blue-green algae (also known as cyanobacteria) will not cause a pronounced discoloration of your **StainGuard® labeled** shingles or ridge cap shingles. During the first year, if your StainGuard® labeled shingles or ridge cap shingles do exhibit a pronounced discoloration caused by blue-green algae, GAF's contribution will be either the reasonable cost of commercially cleaning your shingles or ridge cap shingles or, at GAF's option, replacing discolored shingles or ridge cap shingles up to a **maximum** of the original installed cost of the affected shingles or ridge cap shingles. During the **remainder** of the StainGuard® warranty period, GAF's contribution to you will be reduced to reflect the amount of use you have received from your shingles or ridge cap shingles since they were installed (100%, reduced by a percentage equal to the number of months from the installation date to the date of claim divided by 120). **Note:** Preventing pronounced algae-related discoloration of your shingles or ridge cap shingles is achieved through formulations or through unique blends of granules.

BOTH ROOF SYSTEMS – EXCLUSIONS FROM COVERAGE

(e.g., items that are not "ordinary wear and tear" or are beyond GAF's control)

The All-American Pledge™ Roof Guarantee does **NOT** cover conditions other than leaks. The All-American Pledge™ Roof Guarantee also does **NOT** cover leaks caused by any of the following:

1. Inadequate roof maintenance, that is, the failure to follow the Scheduled Maintenance Checklists provided with this guarantee (extra copies available by calling Guarantee Services at 1-800-ROOF-411) for the low-slope portion or standard good roofing practices for the steep-slope portion of your roof.
2. Unusual weather conditions or natural disasters including, but not limited to, windstorms (if your claim involves your Low-Slope Roof System) or winds above the applicable wind speed stated above (for your Steep-Slope Roof System), hail, floods, hurricanes, lightning, tornados, and earthquakes, unless specifically covered under this guarantee, or by a separate limited warranty providing additional coverage (e.g., where an EverGuard® TPO Puncture Resistance Limited Warranty is also issued for a roof, damage from hail may be covered under the terms of that limited warranty), or ice damming on your Steep-Slope Roof above the area covered by leak barriers or above flashings.
3. Damage to either roof due to: (a) movement or cracking of the roof deck or building; (b) improper installation or failure of any non-GAF insulation or materials; (c) infiltration or condensation of moisture through or around the walls, copings, building structure, or surrounding materials unless high wall GAF waterproofing flashings are installed; (d) chemical attack on your roof systems including, but not limited to, exposure to grease or oil; (e) the failure of wood nailers to remain attached to the structure; (f) inadequate attic ventilation; (g) impact of foreign objects on the roof; (h) improper storage or handling of any roofing products; or (i) the use of materials that are incompatible with the products covered by this guarantee.
4. Traffic of any nature on the roof unless, for your Low-Slope roof system, using GAF walk pads applied in accordance with GAF's published application instructions.
5. Blisters in the Low-Slope Roof System that have not resulted in leaks unless (a) the blister is between the base sheet and insulation and a Stratavent® Eliminator™ Perforated Venting Base Sheet is installed directly over isocyanurate insulation, or (b) the blister is in a seam and may affect the watertight integrity of the Low-Slope Roof System.
6. Changes in the use of the building or any repairs, modifications, or additions to your roof systems after completion, unless approved in writing by GAF.
7. Conditions that prevent positive drainage or result from ponding water (asphaltic and restoration systems only).
8. Exposure to sustained high-temperature conditions; however, for systems utilizing EverGuard Extreme® TPO membrane, exposure in excess of 195°F.
9. Any condition (e.g., base flashing height or lack of counter flashing) that is not in accordance with GAF's published application instructions, or any deviation or modification from any published specification or application instructions, unless specifically authorized by a GAF Field Services Manager or Director in writing.
10. Shading or variations in the color of your shingles, or discoloration caused by fungus, mold, lichen, algae (except for blue-green algae if your shingles were labeled with the StainGuard® logo), or other contaminants, including that caused by organic materials on the roof or membrane fading or discoloration.
11. Damages caused by, or the cost to repair or replace, products not supplied by GAF, including, but not limited to, counter flashing, or GAF products not specifically included above.
12. Improperly designed or installed gutter or downspout systems.
13. Damage to or caused by rooftop air conditioning units (and their flashing), pipe works, brace works, rooftop satellite dishes or other radio/tv devices, counter flashing, or flashings other than those specifically included above.

OTHER LIMITATIONS CONCERNING COVERAGE

STEEP SLOPE: Decisions as to the extent of repair, re-cover, or cleaning required, and the reasonable cost of such work, will be made solely by GAF. GAF reserves the right to arrange directly for your roof products to be repaired, re-covered, or cleaned instead of reimbursing you for such work. The remedy under this warranty is available only for those GAF Products actually exhibiting manufacturing defects, application errors (including misapplication of Covered Flashings), or blue-green algae growth at the time of settlement. Any replacement GAF Products will be warranted only for the remainder of the original warranty period. GAF reserves the right to discontinue or modify its shingles or accessories, including the colors available, so any replacement shingles or accessories may not be an exact match for the shingles or accessories on your roof. Even if GAF does not modify a color, replacement shingles or accessories may not match your original shingles or accessories due to normal weathering, manufacturing variations, or other factors.

LOW SLOPE: Any INSPECTIONS made by GAF are limited to a surface inspection only, are for GAF's sole benefit, and do not constitute a waiver of any of the terms and conditions of this guarantee.

BOTH ROOF SYSTEMS – NOTIFICATION OF LEAKS/CLAIMS; OWNER'S RESPONSIBILITIES

In the event of a leak through your low-Slope Roofing System or a claim in connection with your Steep-Slope Roofing System, you must make sure that GAF is notified directly about the leak or claim within **30 days** of discovery or GAF will have no responsibility under this guarantee. For a leak, notify GAF in writing either by email (preferred) at guaranteeleak@gaf.com or by postal mail to GAF Guarantee Services, 1361 Alps Rd., Bldg. 11-1, Wayne, NJ 07470. For a claim, you must either call GAF at 1-800-458-1860 about your claim or send a notice in writing to GAF Warranty Services at the same address. **NOTE:** Your roofing contractor and dealer are **NOT** agents of GAF; notice to your roofing contractor or dealer is **NOT** notice to GAF.

For your Steep-Slope Roof System, GAF may require you to send to GAF, at your expense, sample products for testing and photographs. Within a reasonable time after proper notification, GAF will evaluate your claim and resolve it in accordance with the terms of this guarantee. Any claim for products that have been replaced before notifying GAF of your claim may be denied.

For your Low-Slope Roof System, by notifying GAF, you authorize GAF to investigate the cause of the leak. If the investigation reveals that the leak is not covered by this guarantee, you agree to pay an investigation cost of $500. This guarantee will be cancelled if you fail to pay this cost within 30 days of receipt of an invoice for it.

You should retain this document for your records in the unlikely event that you need to file a claim.

Preventative Maintenance and Repairs

A. In order to help keep your roof performing properly, you must perform regular inspections and maintenance and keep records of this work.
B. To keep this guarantee in effect, you must repair conditions in the building structure or roofing system that are not covered by this guarantee but that GAF concludes may be threatening the integrity of the GAF Roofing Materials (e.g., porous walls allowing water entry into the roofing system).
C. You may make temporary repairs to minimize damage to the building or its contents in an emergency, at your sole expense. These repairs will not result in cancellation of the guarantee as long as they are reasonable and customary and do not result in permanent damage to the GAF Roofing Materials or GAF products.
D. Any equipment or material that impedes any inspection or repair must be removed at your expense so that GAF can perform inspections or repairs.

BOTH ROOF SYSTEMS – TRANSFERABILITY

This All-American Pledge™ Roof Guarantee may be transferred or assigned once to a subsequent owner of this building for the remaining term but only if: 1) the request is in writing within 60 days after transfer of ownership; 2) you make any repairs to your Roof Systems or other roofing or building components that are identified by GAF after an inspection as necessary to preserve the integrity of your Roof Systems; and 3) you pay an assignment fee of $500. This guarantee is **NOT** otherwise transferable or assignable by contract or by operation of law, either directly or indirectly.

SOLE AND EXCLUSIVE WARRANTY/GUARANTEE

THIS WARRANTY/GUARANTEE IS EXCLUSIVE AND REPLACES ALL OTHER WARRANTIES, CONDITIONS, REPRESENTATIONS AND GUARANTEES, WHETHER EXPRESS OR IMPLIED, WHETHER BY STATUTE, AT LAW OR IN EQUITY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. This written warranty/guarantee is your exclusive warranty from GAF and represents the SOLE REMEDY available to any owner of GAF Products. GAF makes NO OTHER REPRESENTATIONS, CONDITIONS, GUARANTEES, OR WARRANTIES of any kind other than that stated herein. GAF WILL NOT BE LIABLE IN ANY EVENT FOR CONSEQUENTIAL, PUNITIVE, SPECIAL, INCIDENTAL, OR OTHER SIMILAR DAMAGES OF ANY KIND, including DAMAGE TO THE INTERIOR OR EXTERIOR OF ANY BUILDING, whether for breach of this warranty/guarantee, negligence, strict liability in tort, or for any other cause. Some jurisdictions do not allow limitations on or the exclusion of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

MODIFICATION OF GUARANTEE

This guarantee may not be changed or modified except in writing, signed by an officer of GAF. This guarantee gives you specific legal rights, and you may also have other rights which vary from jurisdiction to jurisdiction.

BOTH ROOF SYSTEMS – MEDIATION; JURISDICTION; CHOICE OF LAW

The parties agree that, as a condition precedent to litigation, any controversy or claim relating to the All-American Pledge™ Roof Guarantee shall be first submitted to mediation before a mutually acceptable mediator. In the event that mediation is unsuccessful, the parties agree that neither one will commence or prosecute any lawsuit or proceeding other than before the appropriate state or federal court in the State of New Jersey. This All-American Pledge™ Roof Guarantee shall be governed by the laws of the State of New Jersey, without regard to principles of conflicts of laws. Each party irrevocably consents to the jurisdiction and venue of the above identified courts.

NOTE: This guarantee becomes effective only when all bills for installation and supplies have been paid in full to the roofing contractor and materials suppliers, and the guarantee charge has been paid to GAF.

This document must have a raised seal to be valid.

GAF
1361 Alps Road
Wayne, NJ 07470

By: _____
Authorized Signature Date

COMTS570

2/28/2017 1:00:536 PM

PINELLAS COUNTY HOUSING AUTHORITY

RESIDENCE RENOVATION

Pinellas County Housing Authority

12065 134th Pl N
LARGO, FL 33778

John J. McKenna Architect P.A.
600 N. WILLOW ST. SUITE 300
TAMPA, FLORIDA 33606
PHONE : 813.258.5559
FLORIDA LICENSE - AA C001774
E-MAIL : mckenna42@verizon.net

Sheet Name :	ROOF SHINGLES WARRANTY
Phase :	**PERMIT SET**
Revision :	
Date :	3.3.2017
Drawn by :	DC
Checked by :	JJM
Plot Scale :	
Project Number :	1659

G-6

TIMBERTEX®
Premium Ridge Cap Shingles

Your Best Choice:
- ✓ Lifetime ltd. warranty on GAF lifetime roofs!
- ✓ 165% thicker for a superior look!

Homeowner's Best Choice
- *Peace Of Mind...* Match the lifetime ltd. warranty and wind-speed coverage of your GAF lifetime roof (unlike typical cut-up strip shingles).*
- *Perfect Finishing Touch...* Triple-thick design with massive 5" exposure is 195% thicker than strip shingles, for a distinctive, upscale look.
- *The Right Colors...* Designed to complement the color of your roof's shingles.
- *Stays In Place...* Dura Grip® self-seal adhesive seals each piece tightly and reduces the risk of shingle blow-off.
- *StainGuard® Ltd. Warranty...* Helps assure the beauty of your ridge cap shingles against unsightly blue-green algae.*

Professional's Best Choice
- *Versatile...* 12" wide design fits over most ridge vents.
- *Easier To Install...* Pre-scored design with large, 8" exposure saves labor, and allows you to offer greater customer value.
- *Highest Quality...* Made with special, polymer-modified asphalt, so layers are sturdy and strong, yet bend easily to hug the ridge line.

*See ltd. warranty for complete coverage and restrictions. The word "lifetime" means for as long as the original owner (or second owner, if the warranty was properly transferred during the Smart Choice® protection period) owns the property where the ridge cap shingles were installed.

See What Timbertex® Can Do For Your Roof!

Before: Roof with cut-up strip shingles instead of Timbertex®

After: Same roof with Timbertex® ridge cap shingles

Nominal Product Specifications
- 8" exposure
- Approx. 12" wide
- Each bundle covers approximately 20 linear feet
- 5 bundles cover approximately 100 linear feet
- 150 pieces per 100 linear feet of coverage
- UL 790 Class A fire rated
- Meets ASTM D3161 Class F; ASTM D3018; and ASTM D3462*
- CSA 123.5 98
- Dade County approved
- Florida Building Code approved

*Periodically tested by independent and internal labs to ensure compliance with ASTM D4364 at time of manufacture. Test results obtained after sale may vary depending on storage and roof top conditions.

WEATHERWATCH®
Mineral Surfaced Leak Barrier

Homeowner's Best Choice
- *Looks Better...* Fiberglass reinforcement helps resist wrinkling and buckling–lays flatter under shingles.
- *Meets Building Codes...* In the North, where leak barrier MUST be used.*
- *Peace Of Mind...* Benefits from the same warranty term as the asphalt shingle it is applied under, up to a maximum of 30 yrs.**

Professional's Best Choice
- *Helps Eliminate Waste...* Special adhesive allows for one-time repositioning, but aggressively adheres over time.
- *Dependable...* Self-seals around nails or metal roofing fasteners.
- *Saves Labor...* Dual side selvedge and split back release film speed installation for greater home value.
- *Convenient...* 1.5 and 2.0 square roll sizes.
- *Great For Emergencies...* Can be left exposed for up to 60 days if necessary. Weather Watch® leak barriers are excellent vapor retarder exceeding ASTM D1970 requirements with a .05* vapor permeance.

* Based on internal testing

GAF Weather Watch® EXCEEDS the following requirements of ASTM D1970

Property	Method	Requirement
Thickness (mils)	D5147	Min. 40
Tensile strength MD (lbf/in)	D2523	Min. 25
Tensile strength CMD (lbf/in	D2523	Min. 25
Elongation at break, modified bitumen Portion – MD and CMD (%)	D2523	Min. 10
Adhesion to plywood at 75°F (lbf/ft-width)	D903	Min. 12
Adhesion to plywood at 40°F (lbf/ft-width)	D903	Min. 2
Thermal stability (mm)	D1204	Max. 3
Low temperature flexibility (–20°F)	D1970	Pass
Tear resistance MD (lbf)	D4073	Min. 20
Tear resistance CMD (lbf)	D4073	Min. 20
Moisture vapor permeance (U.S. Perms)	E96 A	Max 0.1
Sealability around nail	D1970	Pass
Waterproof integrity after low temperature flexibility	D1970	Pass
Waterproof integrity of lap seam	D1970	Pass

Applicable Standards
- ICC-ES Evaluation Report (ESR 1327)
- Meets the performance criteria of ASTM D1970
- Texas Department of Insurance
- Miami-Dade County Approved
- State of Florida Approved
- UL Classified. See complete marking on product

Nom. Product Specifications

1.5 Square Roll
- Roll length ..... 30 ft (15.2 m)
- Roll width ..... 36 in (0.9m)
- Sq. foot per roll ..... 150 sq ft (13.9 sq m)

2.0 Square Roll
- Roll length ..... 66.7 ft (20.3 m)
- Roll width ..... 36 in (0.9m)
- Sq. foot per roll ..... 200 sq ft (18.6 sq m)

WEATHERBLOCKER™
Premium Eave/Rake Starter Strip

Homeowner's Best Choice
- *Looks Better...* Straighter roof edges and no messy black cement dripping onto your new white edge metal.
- *Best Performance...* Factory-applied Dura Grip® adhesive helps to lock down the roof edges at the eaves and rakes.
- *Peace Of Mind...* GAF tests show that using starter strips at the eaves and rakes helps to prevent blow-offs and potential leaks.
- *Superior Warranties...* GAF offers increased wind coverage on many shingles when you use starter strips.*

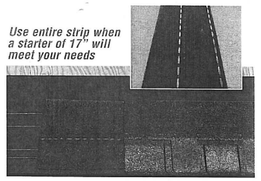
Professional's Best Choice
- *Saves You Time & Labor...* No more wasted time (or material) cutting your own starter strips—allows you to offer greater homeowner value.
- *Easier For Installers...* 42% more coverage per bundle (versus using strip shingles) means less to carry and handle on the roof.
- *Safer...* Perforated design eliminates cutting.
- *Environmentally Friendly...* Reduces landfill waste by eliminating shingle scraps.

*See ltd. warranty for complete details.

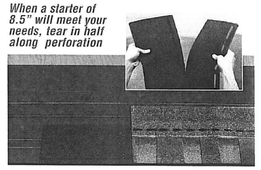
Product Specifications (Nom.)

Product Size	(full sheet) 17" x 40" (half sheet) 8.5" x 40"
Bundle Count	15 pieces (full sheet) 30 pieces (half sheet)
Coverage Per Bundle	100 linear ft (when used as half sheets) 50 linear ft (when used as full sheets)

Use entire strip when a starter of 17" will meet your needs



When a starter of 8.5" will meet your needs, tear in half along perforation



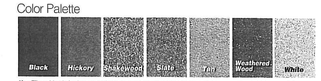
LIBERTY™
SBS Self-Adhering Roofing System

NO Torches, Open Flames, Or Fumes!

Owner's Best Choice
- *Safer For Your Building...* Self-adhering membrane systems eliminate the need for open flames on your roof.
- *No Fumes...* Unlike conventionally applied systems, eliminates the fumes and odors caused by hot asphalt or solvent-based adhesives.
- *The Best Choice...* For any low-slope roofing applications.
- *Proven Technology...* Based on the same technology used in GAF's commercial roofing systems—proven in the field for decades!
- *Great Warranty...* Free ltd. warranty against material defects for up to 15 years.*
- *Extended Guarantee Available...* Labor and Material Guarantees and Limited Product Warranties available for both commercial and residential applications.
- *Peace Of Mind...* Backed by GAF, North America's largest roofing manufacturer.
- *Seven Popular Colors...* To complement your Timberline® or other residential shingle roof.

Professional's Best Choice
- *Safer For Your Installers...* No torches, kettles, or dangerous chemicals—may even reduce your insurance premiums!
- *Quicker Installation...* Often 1/3 faster than conventional systems, with minimal set-up or clean-up time.
- *No Extra Tools...* No need to stage expensive equipment.
- *Proven Technology...* Based on the same technology as GAF's Ruberoid® SBS modified bitumen membranes.
- *Flexible Installation Options*

Color Palette



Note: These blended colors are designed to complement your shingles, not to be an exact match. Because of the small size of these samples, it is difficult to reproduce the actual color effect. Please be sure to see a full-size roll before making a final color selection.

*See Liberty™ Limited Warranty On SBS Materials for complete coverage and restrictions.

Applicable Standards:
- FM Approved
- UL Classified
- Miami-Dade Approved
- FBC Approved
- Texas Department of Insurance*

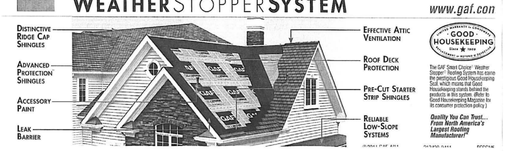
* Texas Department of Insurance does not apply to Liberty™ MA Base Sheet

Product Specifications (Nom.)

Liberty™ MA Base Sheet
- Roll length ..... 66 ft (20.1 m)
- Roll width ..... 39.375 in (1.0 m)
- Roll thickness ..... 0.068 in (1.73 mm)
- Roll weight ..... 82 lbs (37.2 kg)
- Roll size ..... 2 squares, 216 sq ft (20.1 m²)

Liberty™ Base/Ply Sheet
- Roll length ..... 66 ft (20.1 m)
- Roll width ..... 39.375 in (1.0 m)
- Roll thickness ..... 0.068 in (1.73 mm)
- Roll weight ..... 82 lbs (37.2 kg)
- Roll size ..... 2 squares, 216 sq ft (20.1 m²)

Liberty™ Cap Sheet
- Roll length ..... 34.0 ft (10.4 m)
- Roll width ..... 39.375 in (1.0 m)
- Roll thickness ..... 0.157 in (4.0 mm)
- Roll weight (Cap Sheet) .... 96.4 lbs (43.7 kg)
- Roll size ..... 1 square, 112 sq ft (10.4 m²)



GAF LIBERTY™
SBS SELF-ADHERING CAP SHEET

GAF MATERIALS CORPORATION

Description
Liberty™ SBS Self-Adhering Cap Sheet is a durable, modified bitumen membrane designed and manufactured to meet industry and code requirements. The product is designed for use as a waterproofing membrane and is reinforced with a polyester mat, which is coated with a polymer-modified asphalt. Liberty™ SBS Self-Adhering Cap Sheet is a granule-surfaced roofing membrane designed to be used with Liberty™ SBS Self-Adhering Base/Ply or Liberty™ MA Mechanically Attached Base Sheet to provide long-lasting protection for the low-slope areas of your property. System guarantees are available for up to 20 years. Liberty™ Systems are applied with out torches, open flames, hot asphalt, or messy solvent-based adhesives and are suitable for primed plywood decks and many other substrates. Technical and Sales information can be obtained through the GAFMC Contractor Services Hotline, (800) 766-3411.

Application
Liberty™ SBS Self-Adhering Cap Sheet is applied to approved substrates using its unique self-adhering formulation.

Applicable Standards
Meets ASTM D6164, Type I
FBC
FM Approved
Meets CGSB-37-GP-56M
ICC Pending
Miami-Dade County Product Control Approval
State of Florida Product Approval
Texas Department of Insurance
UL/ULc Listed

Products Specifications (nominal)	
Roll Size	1 square (111.6 gross sq.ft.) (10.4m²)
Roll Length	34.0' (10.4m)
Roll Width	39.375" (1.0m)
Approx. Roll Weight	98.4 lbs (43.7kg)
Product Thickness	0.157" (4mm)

This product meets or exceeds the following ASTM D6164, Type I, minimum requirements:

Property	Test Method	Value
Tensile Strength @ 0°F (min), lbf/in	ASTM D5147	70
Elongation @ 0°F (nom.), %	ASTM D5147	20
Low Temperature Flexibility (max.), °F	ASTM D5147	0
Tear Strength (min), lbf	ASTM D5147	55
Dimensional Stability, (max) %	ASTM D5147	1

Data reported based on available independent and in-house resources. GAFMC reserves the right to change or modify, at its discretion, and without prior notice, any of the information, requirements, specifications or policies contained in this document.

MIAMI-DADE COUNTY

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

GAF
1361 Alps Road
Wayne, NJ 07470

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786)315-2590 F (786) 31525-99
www.miamidade.gov/economy

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Liberty™ SBS Self-Adhering Modified Bitumen Roofing Systems Over Wood Decks.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA No. 12-0202.04 and consists of pages 1 through 15.
The submitted documentation was reviewed by Jorge L. Acebo.

MIAMI-DADE COUNTY APPROVED

NOA No.: 12-1220.11
Expiration Date: 02/22/14
Approval Date: 06/13/13
Page 1 of 15

Cobra® SNOWCOUNTRY® Exhaust Vent For Roof Ridge
Cobra® SNOWCOUNTRY® ADVANCED Exhaust Vent For Roof Ridge
Cobra® RIGIDVENT2® Exhaust Vent For Roof Ridge
Cobra® RIGIDVENT3® Exhaust Vent For Roof Ridge

APPLICATION INSTRUCTIONS

Roof Deck: Use only over a well-seasoned, supported wood deck, tightly constructed with maximum 6" wide lumber, having adequate nail-holding capacity. Plywood decking as recommended by The Engineered Wood Association is acceptable.

For ridge vent to function properly, it must be the only exhaust vent for the vented attic space. Do not use with gable-end louvers,turbines, roof vents, or power vents.

Slope Restrictions: Use only on slopes between 3/12 and 16/12.

STEP 1
Calculations for a Balanced Ventilation System

To achieve a "balanced system" with Cobra® 4" rigid vents, there must be an air intake system (i.e., soffits or undereave vents). For proper ventilation, the amount of undereave ventilation must equal the amount of ventilation at the ridge.

NOTE: *Consult local building codes for other ventilation requirements.*
NOTE: *In no case should the amount of exhaust ventilation exceed the amount of intake ventilation.*

To determine the minimum square feet of net free ventilating area (NFVA) needed for a balanced ventilation system, use the following formula:

$$\frac{\text{Sq. ft. of attic floor space}}{300} = \text{Min. Sq. ft. of NFVA needed}$$

Cobra® 4" rigid vents have 18.0 square inches of NFVA per lineal foot. To determine how many feet of Cobra® 4" rigid vent is needed, use the following formula:

1/2 x (Min. sq. ft. of NFVA needed) x 144 / 18.0 = Min. lineal feet of ridge vent needed

To determine the amount of undereave vent required, use the following formula:

X = NFVA (Sq. in. per. lin. ft.) of the undereave vent or intake vent system selected

1/2 x (Min. sq. ft. of NFVA needed) x 144/X = Min. lineal feet of undereave vent needed

STEP 2
Instruction For Slots

After calculating the total length of Cobra® 4" rigid vent needed, determine the necessary slot opening required.

Note: *If installing on an existing roof, remove the cap shingles from the ridge.*

Roofs without a ridge board: cut a 7/8" opening along the ridge on each side (Figure A).

Roofs with a ridge board: cut a 1 7/8" opening along the ridge on each side (Figure B).

Note: *Maximum slot opening is 3 1/4" wide.*

Mark off and cut the slot opening, making sure that the ends of the opening stop at least 6" from any end walls and at least 12" from hip and ridge intersections or chimneys. (Figure C).

Where short ridges (dormers, ridge intersections) are used, mark and cut the slot and make sure that the end of the opening stops at least 12" from the ridge intersection (Figure D).

Fig. A

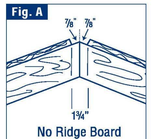


Fig. B

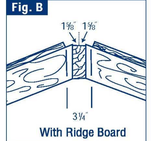


Fig. C

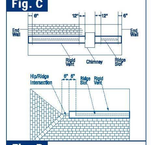
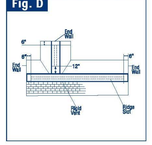


Fig. D



STEP 3
Ridge Vent Installation

Place, center and conform the Cobra® 4" rigid vent over the slot with the vent resting firmly against the roof surface. For Cobra® Snow Country Advanced™ and Cobra® Rigid Vent 3™ only, use the *E-Z Nail™* system. Grasp attached nails by the head and peel back. Rotate nail to vertical position for easy removal (Figure E). For Cobra® Snow Country™ and Cobra® Rigid Vent 2™, use nails at least 1 1/4" or longer. Attach the vent section using the previously mentioned nails through the pre-molded nailing holes (Figure F). Nails must always penetrate through plywood decks or at least 3/4" into wood planks.

NOTE: *3" ring shank nails are recommended for increased uplift resistance.*

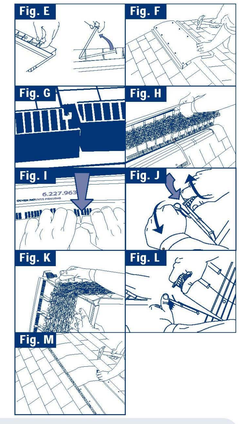
Apply the subsequent Cobra® 4" rigid vent sections over the length of the ridge using the overlap/underlap tabs (Figure G).

For installations in cold weather, leave 1/4" gap between overlap and underlap of each vent section to allow for expansion.

At the end, it may be possible to use the EasyTear™ custom length system to create a specific length part to fit.

1. With the underlap end of the part near the final end position desired, select the support rib nearest your desired length (Figure H).
2. Grasp the baffle with both hands close to the baffle cut notch and snap the baffle at this location (Figure I).
3. Flip the vent section over, then tear the bottom of the baffle apart (Figure J). Repeat steps 2 & 3 on the opposite baffle.
4. After the baffles have been torn, fold the vent back flat along the tear seam until it snaps. After folding back flat, the filter on Snow Country™ and Snow Country Advanced™ can be cut with a utility knife (Figure K).
5. Tear the two parts to get your desired custom length part. Discard the leftover portion (Figure L).

Place the newly cut overlap edge over the end of the last full vent installed and nail in place as shown above. If final vent section can not be completed using the EasyTear™ system, cut the section to desired length. Butt the cut end to the last section installed and caulk the joint. Be sure the finished end is installed to the outside to prevent weather infiltration.



Please Note The Following:
1. *Do not install on hips.*
2. *For a uniform appearance, install Cobra® 4" rigid vent over the entire length of the ridge, making sure that the vent extends past the slot opening by at least 6".*
3. *For applications with hip and ridge intersections, to prevent potential weather or insect infiltration, terminate the Cobra® ridge vent at least 6" short of the intersection.*
4. *For applications over laminated shingles, apply a bead of silicone caulking or roof cement to the underside of the outer baffle along the entire ridge and at exposed edges so that the gaps are completely filled. Do not use excess roof cement as it may cause blistering of the shingles.*
5. *When venting vaulted and cathedral ceilings, each joist/rafter cavity must be vented at both ends and have at least 1 1/4" clearance.*

STEP 4
Cap Shingle Installation

Install the cap shingles directly to the vent, using included 3" ring shank nails provided only with Cobra® Snow Country Advanced™ and Cobra® Rigid Vent 3™. For Cobra® Snow Country™ and Cobra® Rigid Vent 2™,nails must be of sufficient length to penetrate through plywood decks or at least 3/4" into wood planks. A nail line is inscribed on the top of the vent to serve as a guide (Figure M).

NOTE: *3" ring shank nails are recommended for increased uplift resistance.*

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PINELLAS COUNTY HOUSING AUTHORITY — PROGRESSIVE PINELLAS

RESIDENCE RENOVATION

Pinellas County Housing Authority

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LARGO, FL 33778

MANUFACTURER NOTE
- CONTRACTOR TO FOLLOW MANUFACTURER INSTALLATION INSTRUCTIONS, ANY DEVIATION FROM THE PLANS OR SPECS SHALL BE BROUGHT TO THE ARCHITECT AND THE OWNER FOR REVIEW
- CONTRACTOR RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION
- ANY DISCREPANCY BETWEEN MANUFACTURER INSTALLATION INSTRUCTIONS AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OF RECORD FOR CLARIFICATION.

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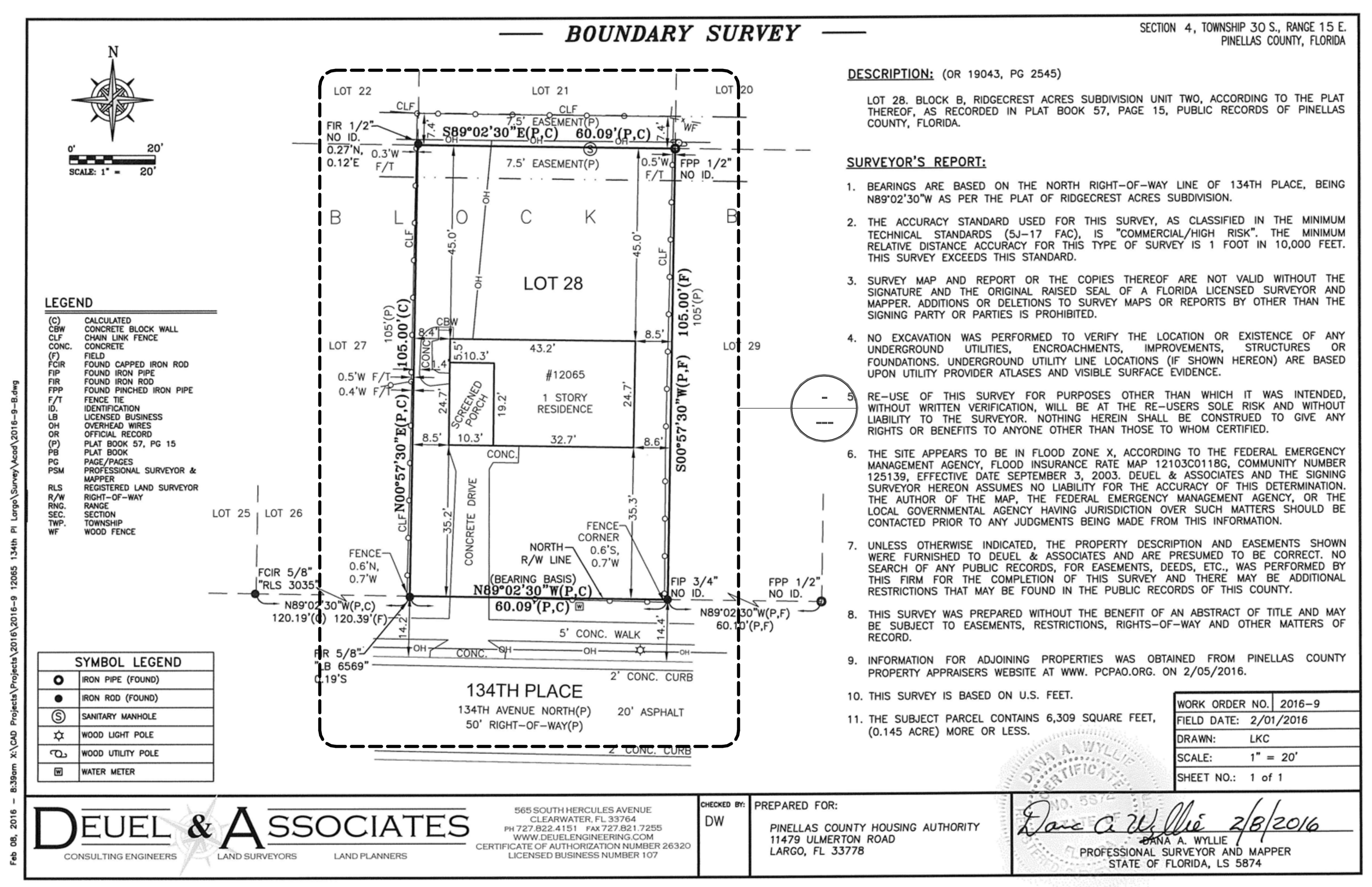
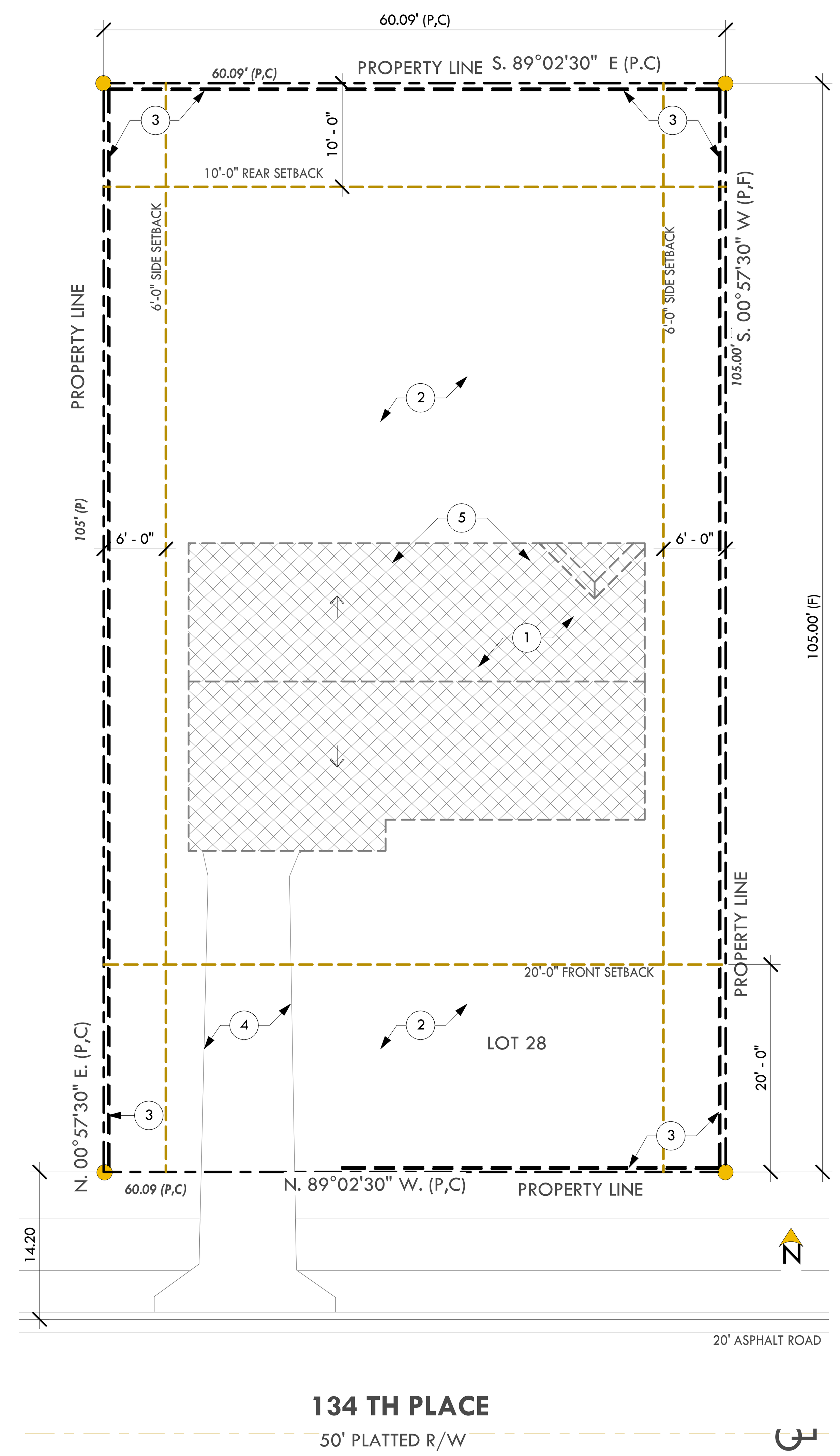
Sheet Name :	RIDGE INSTALLATION INSTRUCTIONS
Phase :	PERMIT SET
Revision :	
Date :	3.3.2017
Drawn by :	Author
Checked by :	Checker
Plot Scale :	
Project Number :	1659

G-7

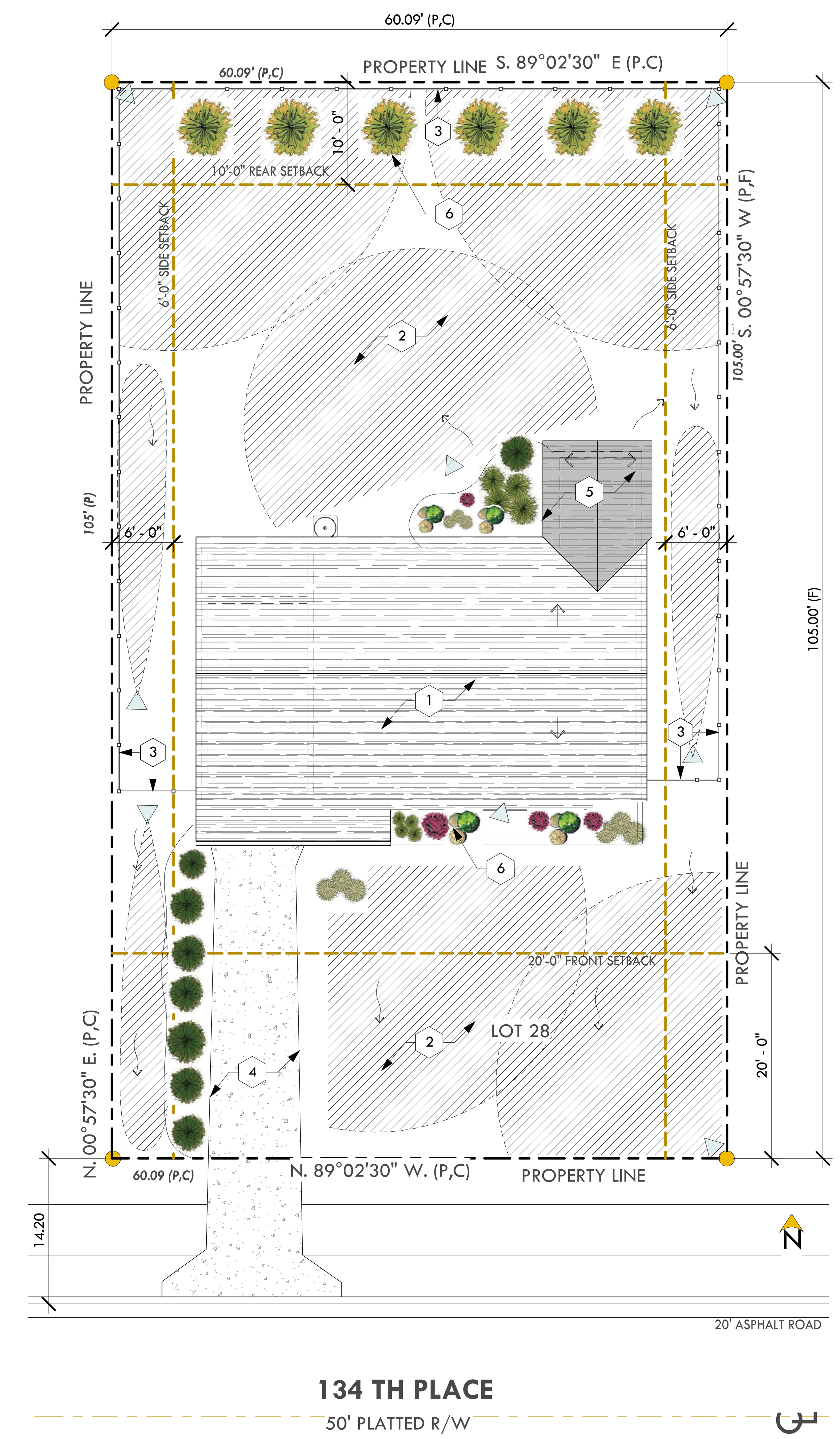
- MILKWEED (ASSORTED), 1 GAL., 10 QTY. 18" O.C.
- FIREBUSH, 3 GAL, 12 QTY. 24" O.C.
- MUHLY GRASS, 3 GAL, 15 QTY. 24" O.C.
- WAX MYRTLE, 3 GAL, 8 QTY. 4'-8" O.C.
- DWARF YAUPON HOLLY, 6 QTY. 3 GAL, 24" O.C.
- AMERICAN HOLLY, 10 GAL, 5' HT., 6 QTY. 11'-6" O.C.
- COONTIE, 3 GAL, 6 QTY. 24" O.C.



REFERENCE SURVEY
1 1" = 30'-0"
SCALE: 1" = 30'-0"



DEMOLITION SITE PLAN
2 1" = 10'-0"
SCALE: 1" = 10'-0"



PROPOSED SITE PLAN
3 1" = 10'-0"
SCALE: 1" = 10'-0"

RESIDENCE RENOVATION

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SITE LEGEND

- INDICATES AREA OF NEW WORK
- INDICATES EXISTING STRUCTURE TO REMAIN
- INDICATES ROOF SLOPE
- INDICATES DIRECTION OF POSITIVE DRAINAGE SLOPE
- INDICATES IRRIGATION SPRINKLER HEAD AND PROJECTION - BY GC

SITE DEMO NOTES

1. PROVIDE EROSION CONTROL TO COMPLY WITH PINELLAS COUNTY REQUIREMENTS

LEGAL DESCRIPTION

1. LOT 28. BLOCK B, RIDGECREST ACRES SUBDIVISION UNIT TWO, ACCORDING TO THE PLAT THEREOF, AS RECORDED IN PLAT BOOK 57, PAGE 15, PUBLIC RECORDS OF PINELLAS COUNTY, FLORIDA
2. SECTION 4, TOWNSHIP 30 S., RANGE 15 E. PINELLAS COUNTY, FLORIDA

SURVEY INFORMATION

SITE DATA BASED UPON SURVEY PROVIDED BY:
DEUDEL & ASSOCIATES CONSULTING ENGINEERS, LAND SURVEYORS, LAND PLANNERS
565 SOUTH HERCULES AVENUE
CLEARWATER FL 33764
PH: 727.822.4151

CONTROL JOINTS NOTE

BUILDING SLABS SHALL HAVE CONTROL JOINTS IN ACCORDANCE W/ ACI224-3R

FINISH FLOOR ELEVATION

FINISH FLOOR ELEVATION OF ADDITION TO MATCH EXISTING

DEMO NOTES "O"

1. REMOVE ALL ROOFING, PREPARE FOR NEW SHINGLE ROOF-REFER TO ROOF PLAN
2. PROVIDE TREE BARRIERS PER AHJ
3. REMOVE ALL EXISTING FENCES AND DISPOSE PER AHJ STANDARDS_AWARDED CONTRACTOR RESPONSIBLE FOR COMMISSIONING DISPOSAL
4. PREPARE DRIVEWAY FOR PATCHING
5. PREPARE ROOF TO RECEIVE NEW CONVENTIONAL ROOF

PROPOSED NOTES "⬡"

REFER TO G-2 SPECIFICATIONS FOR ADDITIONAL INFORMATION

1. PROPOSED NEW ROOF - REFER TO ROOF PLAN FOR SCOPE
2. PROTECT ALL EXISTING TREES DURING CONSTRUCTION
3. PROVIDE NEW SIX FOOT WHITE VINYL FENCE
4. PATCH DRIVEWAY AND SIDEWALK CRACKS. LEVEL OUT ANY TRIP HAZARDS. PERFORMANCE SPEC:
   - A. GUIDE TO ADA STANDARDS - CHAPTER 3 FLOOR AND GROUND SERVICES
     - a. SURFACE OPENING MAX:1/2"
     - b. CHANGES IN LEVEL CAN BE UP TO ¼" WITHOUT TREATMENT OR ½" IF BEVELED WITH A SLOPE NO STEEPER THAN 1:2. CHANGES IN LEVEL ABOVE A ½" MUST BE TREATED AS A RAMP OR CURB RAMP (OR A WALKWAY IF A SLOPE NO STEEPER THAN 1:20 CAN BE ACHIEVED)
   - B. UFAS (UNIFORM FEDERAL ACCESSIBILITY STANDARDS) CHAPTER 4.1 MINIMUM REQUIREMENTS: 4.1.3;4.1.6;4.3;**4.5**
5. PROPOSED ADDITION - SEE FLOOR PLANS
6. NATIVE LANDSCAPE

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Sheet Name :	REFERENCE SITE PLAN
Phase :	**PERMIT SET**
Revision :	
Date :	3.3.2017
Drawn by :	DC
Checked by :	JJM
Plot Scale :	
Project Number :	1659

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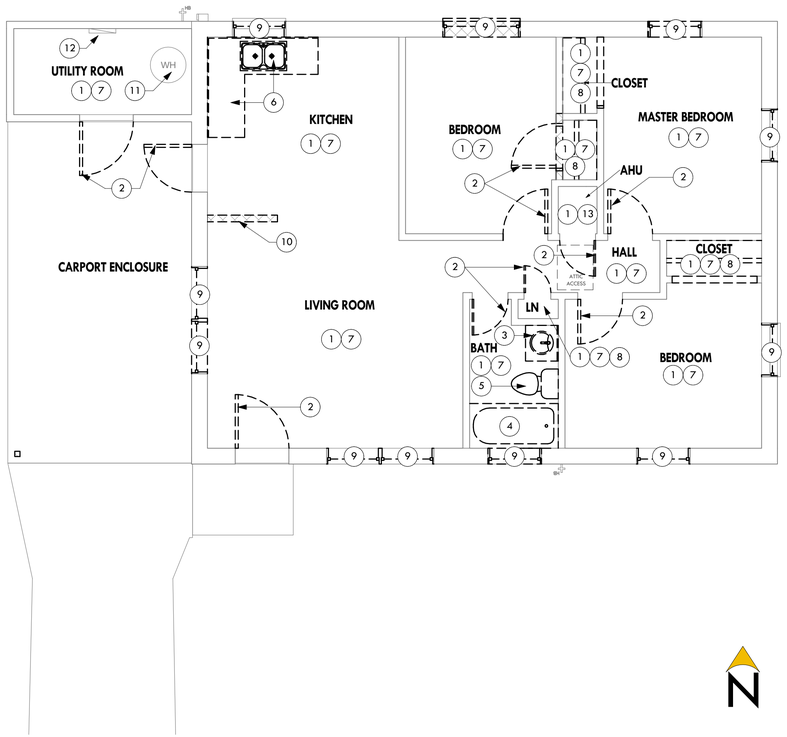

DEMOLITION FLOOR PLAN

1/4" = 1'-0"

0 2' 4' 8'

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

PINELLAS COUNTY HOUSING AUTHORITY

PROGRESSIVE PINELLAS

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DEMOLITION NOTE

IMPORTANT NOTICE REGARDING REMOVAL OF EXISTING BEARING WALLS:
DUE THE AGE OF THE ROOF RAFTERS AND RESIDUAL DEFLECTIONS, THE GENERAL CONTRACTOR IS REQUIRED TO CONDUCT AN EXPLORATORY DEMOLITION OF THE CEILING AROUND THE PORTION OF INTERIOR WALL TO BE DEMOLISHED. PLEASE NOTE THAT ANY WALLS THAT ARE TO BE DEMOLISHED, WOULD NEED TO BE CAREFULLY WATCHED DURING THE REMOVAL OF THOSE WALLS FOR UNFORSEEN DEFLECTIONS. IT IS RECOMMENDED THAT THE TRUSSES BE TEMPORARY SUPPORTED BY ADJUSTABLE SHORING WHILE REMOVING THE WALLS. AFTER THEY HAVE BEEN REMOVED, THE ADJUSTABLE SHORING SHOULD BE SLOWLY LOWERED AND THE DEFLECTION OBSERVED ON THE FLOOR JOISTS. DEFLECTIONS SHOULD NOT BE MORE THAN 1/4-INCH AT ANY POINT ON THE FLOOR JOIST. IF DEFLECTIONS ARE LARGER THAT 1/4-INCH, NOTIFY THE EOR OR ARCHITECT FOR THE REQUIRED REPAIR.

DEMO LEGEND

ITEMS TO BE DEMOLISHED

ITEMS NOT IN SCOPE

DEMOLITION NOTES "○"

1. REMOVE ALL DRYWALL IN WALLS AND CEILING, TRIM, BASE AND FINISHES TO THE WOOD STUD - PROTECT FLOORS DURING DEMOLITION
2. REMOVE DOOR, DOOR FRAME AND HARDWARE
3. REMOVE ALL BASE AND UPPER CABINETS, COUNTERTOP AND DRYWALL BEHIND
4. REMOVE EXISTING TUB - DISPOSE SAFELY - CAP PLUMBING FIXTURES
5. REMOVE EXISTING TOILET - INSPECT EXISTING SEWER LINE AND PREPARE FOR NEW TOILET - NOTIFY ARCHITECT OF CONDITIONS OF CURRENT PLUMBING PRESSURE AND SEWER CLOG ISSUES
6. REMOVE SINK, BASE AND UPPERSCABINETSO AND DRYWALL BEHIND CASEWORK
7. REMOVE ALL WIRING, LIGHTING FIXTURES, SWITCHES AND OUTLETS - DISPOSE SAFELY
8. REMOVE ALL EXISTING SHELVING, DISPOSE SAFELY
9. REMOVE EXISTING WINDOWS, SILLS AND PREPARE FOR NEW WINDOWS
10. REMOVE PORTION OF EXISTING WALL
11. EXISTING WATER HEATER TO REMAIN
12. REPLACE EXISTING ELECTRIC PANEL - EXISTING SERVICE TO REMAIN
13. EXISTING A.H.U. TO REMAIN

TERMITE TREATMENT

1. ONCE DEMOLITION IS COMPLETE, CONTRACTOR MUST CONDUCT TERMITE FUMIGATION FOR THE ENTIRE STRUCTURE, TO INCLUDE TREATMENT OF SUBTERRANEAN TERMITES.
2. NO NEW WORK SHALL BE CONDUCTED PRIOR TO FUMIGATION
3. CONTRACTOR RESPONSIBLE FOR COMPLIANCE WITH LOCAL CODES AND REGULATIONS
4. CONTRACTOR TO PROVIDE FULL WARRANTY OF TERMITE TREATMENT

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Sheet Name :	DEMOLITION PLAN
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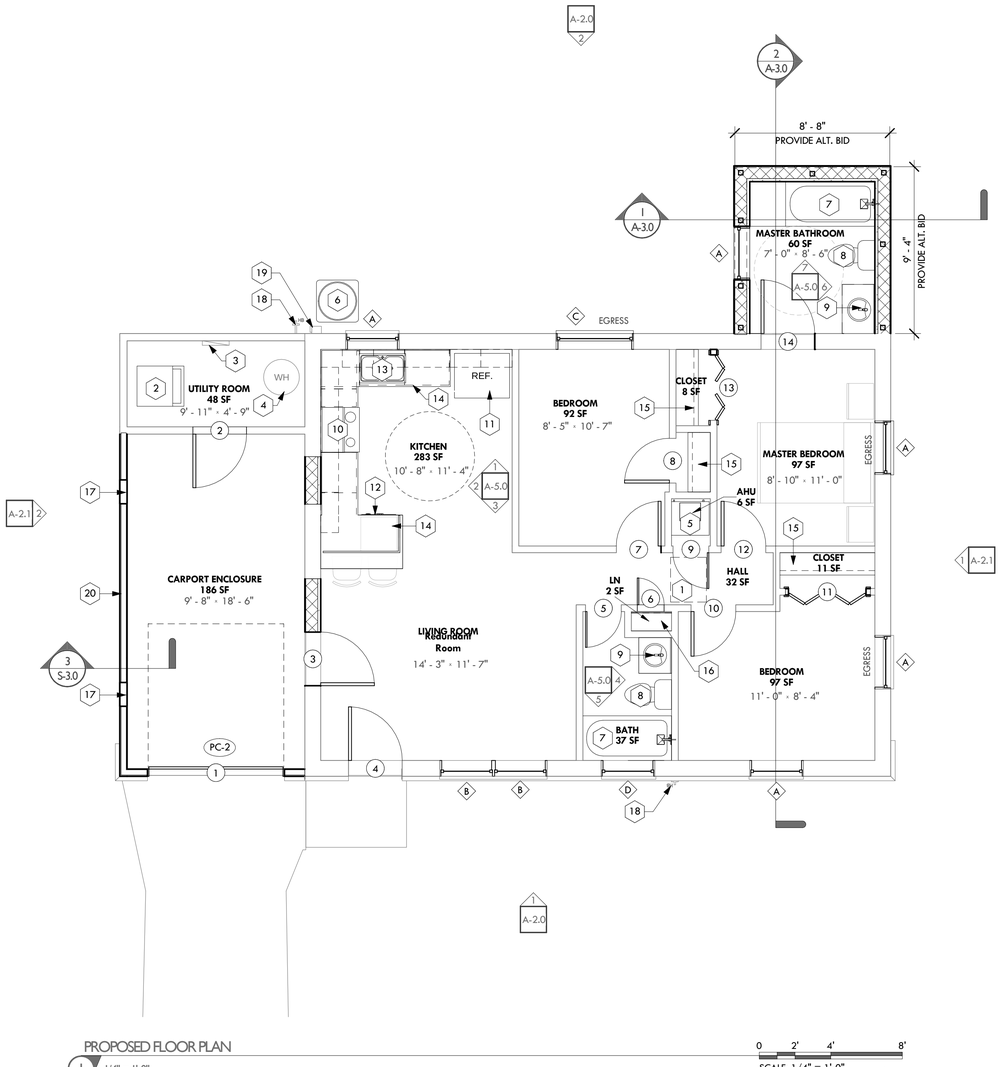

PROPOSED FLOOR PLAN
1 1/4" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

WALL LEGEND

- 8" MASONRY W/ 4" STONE
- 8" MASONRY W/ GYP. - FURRING AND R5 INSULATION
- 8" MASONRY W/ STUCCO
- 5" WD. STUD W/ GYP.
- 6" WD. STUD W/ GYP.

SYMBOL LEGEND

- XX WINDOW TAG
- XX DOOR TAG
- XX KEYNOTES

FIRST FLOOR WINDOW SCHEDULE

MARK	LEVEL	Count	WIDTH	HEIGHT	COMMENTS	Phase Created
A	FIRST FLOOR PLAN	5	3' - 0"	3' - 2"	CASING EGRESS WIND. ALL BUT KITCHEN & MASTER BATHROOM	New Construction
B	FIRST FLOOR PLAN	2	3' - 0"	4' - 2"	MATCH EXISTING STYLE	New Construction
C	FIRST FLOOR PLAN	2	4' - 4"	3' - 2"	CASING EGRESS WIND. AT BEDROOM -MATCH EXISTING STYLE ELSEWHERE	New Construction
D	FIRST FLOOR PLAN	1	3' - 0"	2' - 0"	MATCH EXISTING STYLE	New Construction

WINDOW NOTE: PROVIDE MARBLE SILL AND BLINDS ON EACH WINDOW

FIRST FLOOR DOOR SCHEDULE

MARK	LEVEL	WIDTH	HEIGHT	COMMENTS	Phase Created
1	GARAGE	7' - 6"	7' - 6"	GARAGE DR. SEE PA SHEETS	New Construction
2	FIRST FLOOR PLAN	3' - 0"	6' - 8"	6 PANEL SOLID WD. DR.	New Construction
3	FIRST FLOOR PLAN	3' - 0"	6' - 8"	45 MIN. FIRE RATED6 PANEL SOLID WD. DR.	New Construction
4	FIRST FLOOR PLAN	3' - 0"	6' - 8"	ENTRY DR-IMPACT RESISTANT-SEE PA SHEETS	New Construction
5	FIRST FLOOR PLAN	2' - 0"	6' - 8"	6 PANEL SOLID WD. DR.	New Construction
6	FIRST FLOOR PLAN	1' - 6"	6' - 8"	CUSTOM SIZED - SOLID WD. DR.	New Construction
7	FIRST FLOOR PLAN	2' - 6"	6' - 8"	6 PANEL SOLID WD. DR.	New Construction
8	FIRST FLOOR PLAN	2' - 6"	6' - 8"	6 PANEL SOLID WD. DR.	New Construction
9	FIRST FLOOR PLAN	2' - 0"	6' - 8"	LOUVERED WD. DOOR FOR A/C RETURN	New Construction
10	FIRST FLOOR PLAN	2' - 6"	6' - 8"	6 PANEL SOLID WD. DR.	New Construction
11	FIRST FLOOR PLAN	4' - 4"	6' - 8"	BIFOLD WD. LOUVERD DR.	New Construction
12	FIRST FLOOR PLAN	2' - 6"	6' - 8"	6 PANEL SOLID WD. DR.	New Construction
13	FIRST FLOOR PLAN	3' - 8"	6' - 8"	BIFOLD WD. LOUVERD DR.	New Construction
14	FIRST FLOOR PLAN	3' - 0"	6' - 8"	6 PANEL SOLID WD. DR.	New Construction

1

ROOM SCHEDULE

ROOM NAME	AREA	FLOOR FINISH	BASE FINISH	CEILING FINISH
KITCHEN	283 SF	EARTH WERKS PACIFIC PLANK APP 650	WOOD	PAINTED GYP. BD.
CARPORT ENCLOSURE	186 SF	CONCRETE SLAB-PRESSURE WASH AND REPARI AS NEEDED	WOOD	PAINTED GYP. BD.
UTILITY ROOM	48 SF	CONCRETE SLAB-PRESSURE WASH AND REPARI AS NEEDED	WOOD	PAINTED GYP. BD.
LIVING ROOM	Redundant Room	EARTH WERKS PACIFIC PLANK APP 650	WOOD	PAINTED GYP. BD.
BEDROOM	92 SF	EARTH WERKS PACIFIC PLANK APP 650	WOOD	PAINTED GYP. BD.
MASTER BEDROOM	97 SF	EARTH WERKS PACIFIC PLANK APP 650	WOOD	PAINTED GYP. BD.
CLOSET	8 SF	EARTH WERKS PACIFIC PLANK APP 650	WOOD	PAINTED GYP. BD.
HALL	32 SF	EARTH WERKS PACIFIC PLANK APP 650	WOOD	PAINTED GYP. BD.
CLOSET	11 SF	EARTH WERKS PACIFIC PLANK APP 650	WOOD	PAINTED GYP. BD.
BEDROOM	97 SF	EARTH WERKS PACIFIC PLANK APP 650	WOOD	PAINTED GYP. BD.
BATH	37 SF	GLAZED CERAMIC TILE-DALTILE GREEN WORKS_CREMONA CAFE	3X12 BN TILE BASE TO MATCH FLOOR	PAINTED GYP. BD.
LN	2 SF	EARTH WERKS PACIFIC PLANK APP 650	WOOD	PAINTED GYP. BD.
AHU	6 SF	EARTH WERKS PACIFIC PLANK APP 650	WOOD	PAINTED GYP. BD.
MASTER BATHROOM	60 SF	GLAZED CERAMIC TILE-DALTILE GREEN WORKS_CREMONA CAFE	3X12 BN TILE BASE TO MATCH FLOOR	PAINTED GYP. BD.

FINISHES NOTES:
1. **CONTRACTOR TO SUPPLY ONE EXTRA BOX OF FLOORING (WOOD AND TILE)**
2. CONTRACTOR TO INSTALL TRANSITION STRIPS TO MATCH PLANK FLOORING
3. REFER TO G-2 FOR COLOR SPECIFICATIONS
4. ALL FINISHES SHALL BE COORDINATED AND APPROVED BY PCHA PRIOR TO ORDERING (SPECIFICATIONS ARE BASIS OF DESIGN)

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GENERAL NOTES

- ALL WINDOWS TO HAVE FLUSH SILLS. PITCH TOP SILL FIN AWAY FROM WINDOW FRAME.
- VERIFY ALL WINDOW AND DOOR ROUGH OPENING SIZES WITH THE MANUFACTURER'S SPECIFICATIONS.
- INSTALL SQUARE DRYWALL BEADS AT HORIZ & VERT CORNERS, EXCEPT AT EXT WALL OPENINGS OR AS NOTED.
- ALL WINDOWS TO BE IMPACT RESISTANT - **NO SUBSTITUTIONS ALLOWED**
- LOCATE ALL PLUMBING & EXHAUST STACKS BEYOND THE FRONT ELEV ROOF RIDGES, IF ALLOWABLE PER CODE.
- THE GARAGE IS TO BE SEPARATED FROM ADJACENT LIVING AREA AND ATTIC SPACE BY NOT LESS THAN 5/8" THK. TYPE "X" GYPSUM BOARD (OR EQUIVALENT) APPLIED TO THE GARAGE SIDE.
- REFERENCE STRUCTURAL SHEETS FOR SLAB DIMENSIONS, COLUMN AND BEARING WALL LOCATIONS
- REFERENCE ELECTRICAL DRAWINGS
- DIMENSIONS TO EXTERIOR OF BLOCK WALLS AND CENTER OF SUD WALLS
- ALL DOOR KNOBS TO BE LEVER TYPE
- ALL MILLWORK TO BE PLYWOOD - NO SUBSTITUTIONS ALLOWED
- ALL APPLIANCES TO BE BLACK
- UNLESS OTHERWISE NOTED PRODUCTS ARE SPECIFIED AS A BASIS OF DESIGN, ALL SUBSTITUTIONS MUST BE SUBMITTED FOR ARCHITECT'S/OWNER'S REVIEW WITH **APPROVED EQUAL** ALTERNATES.

ENERGY STAR COMPLIANCE

THIS PROJECT IS DESIGNED TO ACHIEVE AN ENERGY STAR SCORE OF 75 OR GREATER. THE CONTRACTOR SHALL ADHERE TO PRODUCTS, METHODS, AND QUALITY LEVELS SPECIFIED IN THE CONSTRUCTION DOCUMENTS. ANY PROPOSED SUBSTITUTIONS MUST BE SUBMITTED ACCORDING TO THE PROCEDURES DEFINED HEREIN. SUBSTITUTIONS THAT MAY ALTER THE ENERGY PERFORMANCE GOALS OF THE PROJECT WILL NOT BE APPROVED. NO SUBSTITUTIONS ARE PERMITTED WITHOUT APPROVAL OF THE DESIGN TEAM.

PROPOSED NOTES "⬡"

NOTE: REFER TO THE SPECIFICATIONS FOR ADDITIONAL APPLIANCE AND FIXTURE INFORMATION

1. EXISTING ATTIC ACCESS - SEE ELECTRICAL FOR LIGHTING
2. STACKED WASHER/DRYER
3. NEW PANEL BOX AND BREAKERS TO REPLACE EXISTING
4. EXISTING WATER HEATER TO REMAIN
5. NEW A.H.U.
6. PROVIDE NEW COMPRESSOR ON EXTERIOR CONCRETE PAR - CONTRACTOR TO MATCH SYSTEM AND COORDINATE WITH MECHANICAL CALCULATIONS-CONTRACTOR TO PROVIDE MECH. CALCULATIONS
7. STANDARD 30"x60" PORCELAIN-ENAMELED STEEL TUB - LEVER HANDLED SHOWER CONTROL - EPA 'WATER SENSE' APPROVED
8. NEW TOILET
9. NEW SINK, VANITY CABINET AND COUNTERTOP
10. RANGE OVEN WITH VENT-THRU ROOF HOOD AND MICROWAVE
11. NEW ENERGY STAR REFRIGERATOR
12. NEW DISHWASHER
13. STAINLESS STEEL KITCHEN SINK & FAUCET
14. NEW KITCHEN CABINETS AND COUNTER - REFERENCE INTERIOR SHEETS FOR SPECIFICATIONS
15. CLOSET SHELF AND ROD
16. LINEN WIRE SHELVES
17. 18"X16" SMART VENT (BOTTOM TO BE 8" ABV FIN SLAB)
18. EXISTING HOSE BIB - INSPECT FOR PROPER FUNCTION - REPAIR AS NEEDED TO PERFORM AS INTENDED
19. EXISTING DISCONNECT, AND METER TO REMAIN
20. NEW FRAMED WALL FOR CARPORT ENCLOSURE

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Sheet Name :	FLOOR PLAN
Phase :	**PERMIT SET**
Revision : REV.1 OWNER CHANGES	2017.03.31
Date : 3.3.2017	
Drawn by : DC	
Checked by : JJM	
Plot Scale :	
Project Number : 1659	

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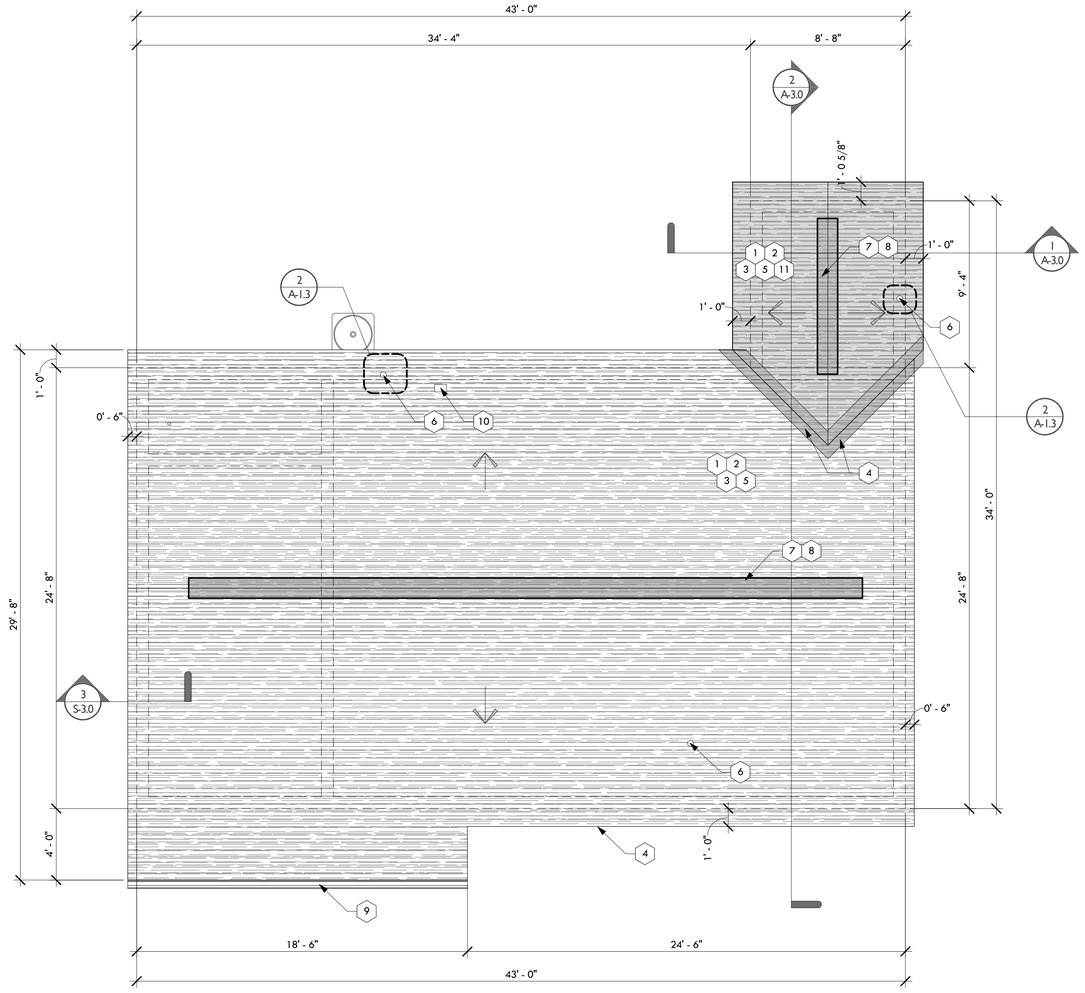
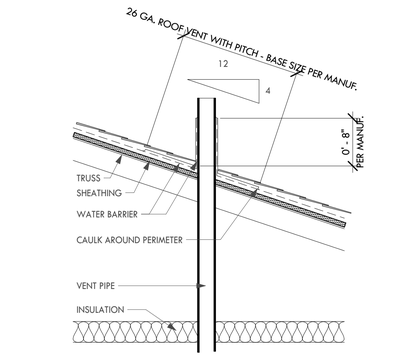


NOTES:
1. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDER ROOFING MATERIAL
2. CONTACT ARCHITECT IF EXISTING CONDITIONS DIFFER FROM DRAWINGS

ROOF PLAN
1 1/4" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"



VENT THROUGH ROOF DETAIL
2 1" = 1'-0"

0 1/2' 1' 2'
SCALE: 1" = 1'-0"

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SCOPE OF WORK

1. CONTRACTOR SHALL REMOVE AND REPLACE ALL ASPHALT ROOFING, LEAK BARRIER/DECK PROTECTION, METAL FLASHING AND FASCIA
2. CONTRACTOR SHALL REMOVE AND REPLACE ANY DAMAGED PLYWOOD DECK SHEATHING AS REQUIRED:
   A. ALLOWANCE WITH BID: 200 S.F. THICKNESS TO MATCH EXISTING
   B. PROVIDE A LINE ITEM FEE FOR ADDITIONAL PLYWOOD PER SQUARE FOOT.
3. CONTRACTOR SHALL REMOVE AND REPLACE ANY DAMAGED SOFFIT AS REQUIRED
   A. ALLOWANCE WITH BID: 50 SQUARE FEET. THICKNESS TO MATCH EXISTING
   B. PROVIDE A LINE ITEM FEE FOR ADDITIONAL MATERIAL PER SQUARE FOOT
4. CONTRACTOR SHALL REMOVE EXISTING ATTIC INSULATION ALONG WITH ANY TRASH OR DEBRIS
5. CONTRACTOR SHALL FURNISH LABOR AND MATERIALS TO PROVIDE R-40 BLOWN CELLULOSE INSULATION IN THE ATTIC OF A 1,164 SQUARE FOOT HOME

ATTIC NOTES

- R-40 MIN BLOWN CELLULOSE INSULATION
- VERIFY ENERGY REBATES/INCENTIVES WITH LOCAL UTILITY (DUKE ENERGY)

ROOF WARRANTY NOTE

CONTRACTOR RESPONSIBLE FOR PROVIDING THE OWNER WARRANTY PER MANUFACTURER'S SPECIFICATION (20 YEAR MIN). REFER TO PA-4 FOR WARRANTY INFORMATION

ROOF LEGEND

INDICATES AREA OF NEW WORK

INDICATES ROOF SLOPE

PROPOSED NOTES "⬡"

NOTE:
- **ROOF INSTALLER TO PROVIDE 3 YEAR WATER TIGHT WARRANTY - REFER TO ROOF WARRANTY ON PAGE PA-4 FOR ADDITIONAL ROOF WARRANTIES**
- **REFER TO SHEET G-2 SPECIFICATIONS FOR ADDITIONAL INFORMATION**

1. PROVIDE SHEATHING REPAIR AS PER SCOPE DESCRIBED ABOVE
2. PROVIDE NEW SHINGLES
3. PROVIDE ROOF UNDERLAYMENT
4. PROVIDE NEW PRE-FINISHED (WHITE) METAL EDGE DRIP. 4" DEEP & 45 DEGREE 1/2" TURN MATCHING EXISTING PROFILE
5. PROVIDE R-40 INSULATION IN THE ATTIC -SEE ATTIC NOTES
6. PROVIDE NEW BOOT AT EACH PLUMBING VENT
7. PROVIDE RIDGE EXHAUST VENT
8. PROVIDE RIDGE CAP SHINGLES
9. PROVIDE GUTTERS, DOWNSPOUTS AND SPLASH ROCKS
10. OVEN EXHAUST
11. NEW CONVENTIONALLY FRAMED ROOF OVER NEW STRUCTURE

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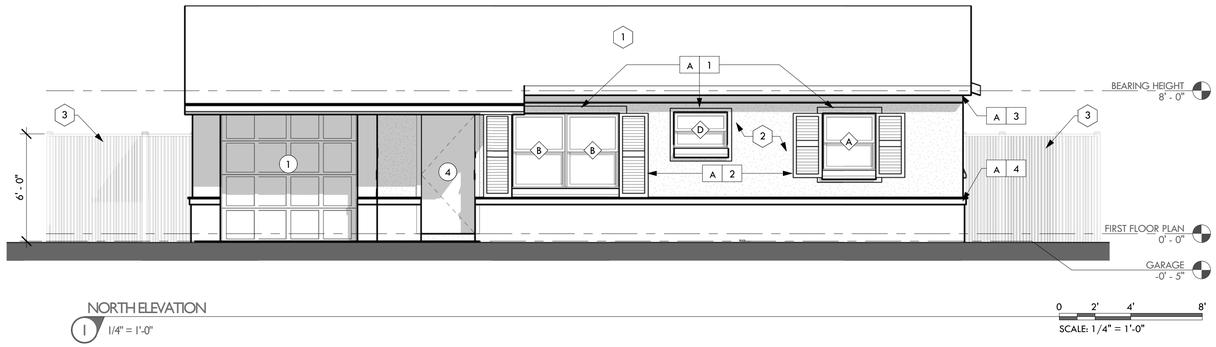
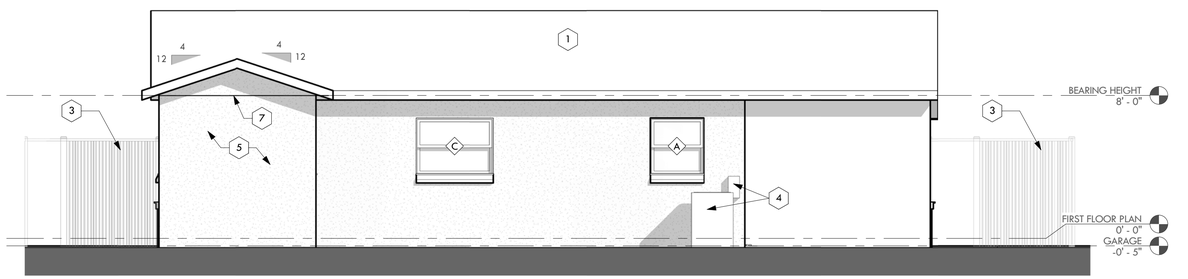


NORTH ELEVATION
1 1/4" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"



SOUTH ELEVATION
2 1/4" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

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RESIDENCE RENOVATION

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SYMBOL LEGEND

XX WINDOW TAG

XX DOOR TAG

XX KEYNOTES

PROPOSED NOTES "⬡"

1. ROOF REPLACEMENT - REFER TO ROOF PLAN FOR SCOPE
2. EXTERIOR WALLS:
   A. PRESSURE WASH ALL WALLS
   B. REPAIR ALL STUCCO TO MATCH EXISTING CONDITIONS
   C. CAULK AROUND ALL EQUIPMENT AND ANY ANY PENETRATIONS TO THE EXTERIOR WALLS
   D. PAINT THE EXTERIOR OF THE HOUSE - REFER TO SHEET G-2 SPECIFICATIONS
3. PROVIDE NEW SIX FOOT WHITE VINYL FENCE
4. NEW COMPRESSOR - DISCONNECT AND ELECTRICAL METER
5. NEW ADDITION: CMU WALLS OVER SLAB ON GRADE THICKENED EDGE FOUNDATION AND CONVENTIONALLY FRAMED ROOF - SHINGLES TO MATCH SPECIFICATIONS
6. PAINT EXISTING ATTIC LOUVERS
7. PROVIDE NEW CONTROL JOINT

INCLUDE IN BID [0 | 0]

CONTRACTOR MUST PROVIDE LINE ITEM PRICING FOR THE FOLLOWING IMPROVEMENTS IN THEIR BASE BID:

1. STUCCO BANDING AROUND FRONT WINDOWS
2. SHUTTERS
3. HORIZONTAL STUCCO BANDING BELOW SOFFIT (6" SHOWN)
4. NATURAL THIN STONE VENEER OVER EXISTING BRICK BOTTOM HALF OF FRONT FACADE:
   A. INCLUDE CAP STONE
   B. INCLUDE 24" TURN ON BOTH SIDES

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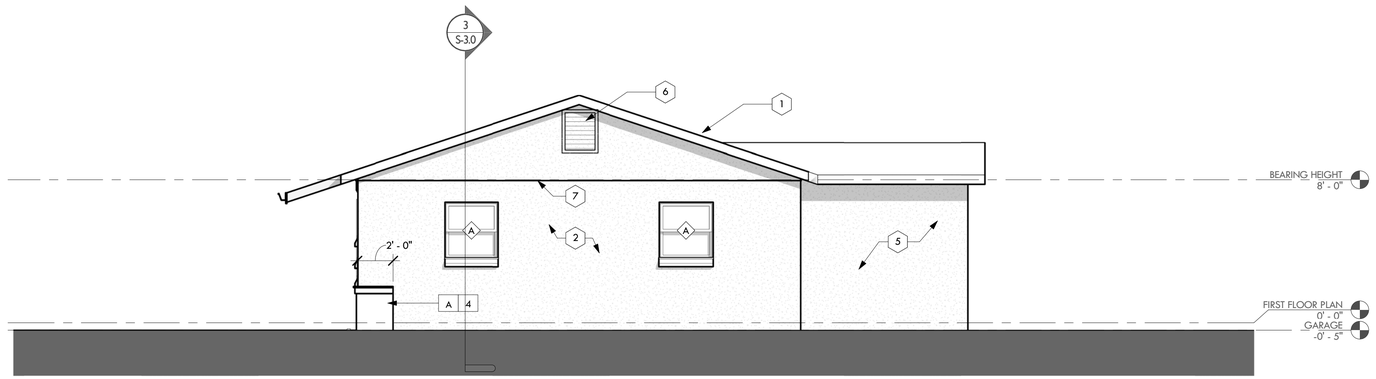
Sheet Name :	EXTERIOR ELEVATIONS
Phase :	**PERMIT SET**
Revision :	
Date :	3.3.2017
Drawn by :	DC
Checked by :	JJM
Plot Scale :	
Project Number :	1659

A-2.0



WEST ELEVATION

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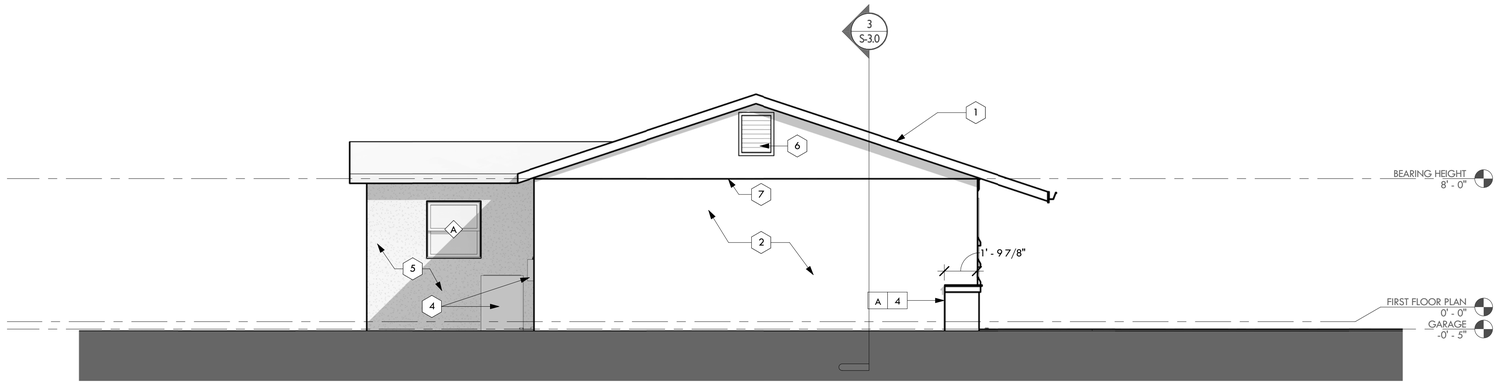
SCALE: 1/4" = 1'-0"



EAST ELEVATION

2 1/4" = 1'-0"

0 2' 4' 8'

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

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SYMBOL LEGEND

XX WINDOW TAG

XX DOOR TAG

XX KEYNOTES

PROPOSED NOTES "⬡"

1. ROOF REPLACEMENT - REFER TO ROOF PLAN FOR SCOPE
2. EXTERIOR WALLS:
   A. PRESSURE WASH ALL WALLS
   B. REPAIR ALL STUCCO TO MATCH EXISTING CONDITIONS
   C. CAULK AROUND ALL EQUIPMENT AND ANY ANY PENETRATIONS TO THE EXTERIOR WALLS
   D. PAINT THE EXTERIOR OF THE HOUSE - REFER TO SHEET G-2 SPECIFICATIONS
3. PROVIDE NEW SIX FOOT WHITE VINYL FENCE
4. NEW COMPRESSOR - DISCONNECT AND ELECTRICAL METER
5. NEW ADDITION: CMU WALLS OVER SLAB ON GRADE THICKENED EDGE FOUNDATION AND CONVENTIONALLY FRAMED ROOF - SHINGLES TO MATCH SPECIFICATIONS
6. PAINT EXISTING ATTIC LOUVERS
7. PROVIDE NEW CONTROL JOINT

FACADE IMPROVEMENTS 0 0

CONTRACTOR TO PROVIDE ALTERNATE PRICING FOR THE FOLLOWING IMPROVEMENTS:

1. STUCCO BANDING AROUND FRONT WINDOWS
2. SHUTTERS
3. HORIZONTAL STUCCO BANDING BELOW SOFFIT (6" SHOWN)
4. NATURAL THIN STONE VENEER OVER EXISTING BRICK BOTTOM HALF OF FRONT FACADE:
   A. INCLUDE CAP STONE
   B. INCLUDE 24" TURN ON BOTH SIDES

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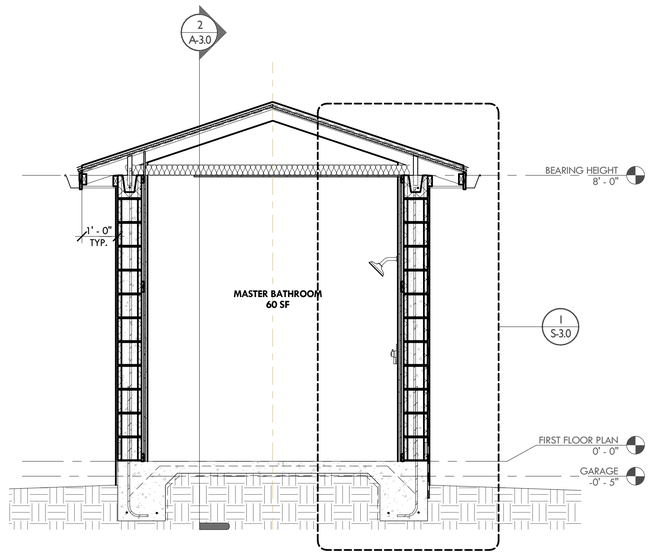

BUILDING SECTION
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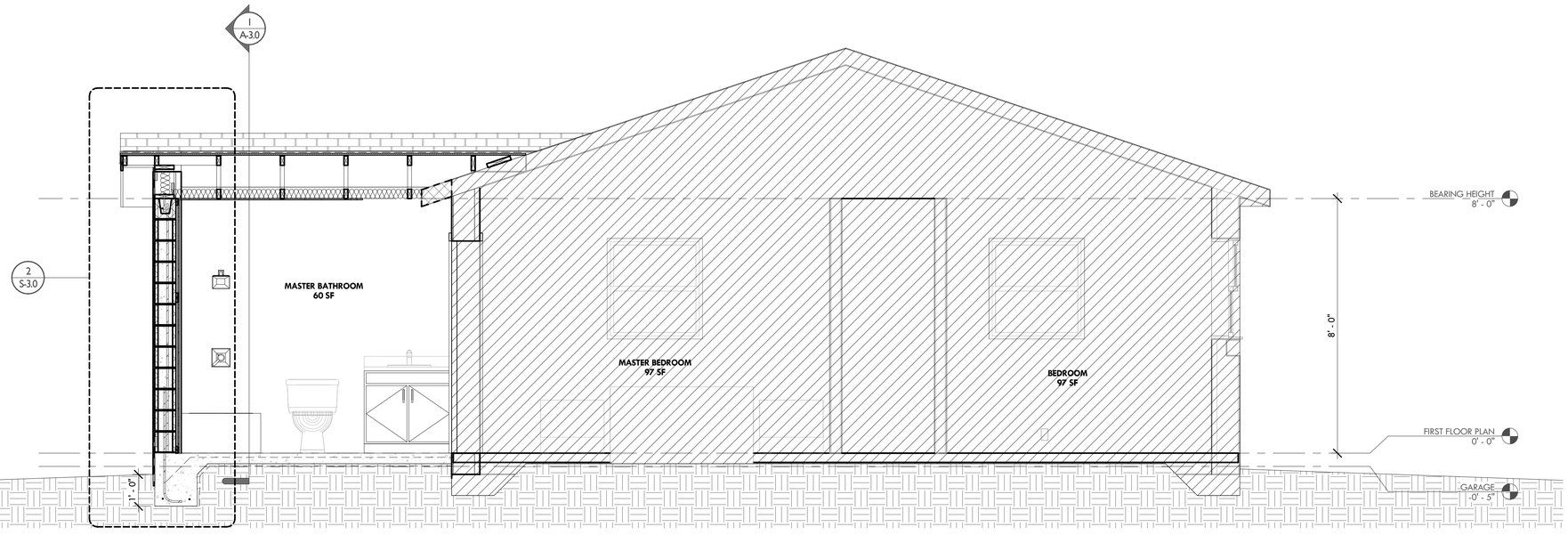
SCALE: 1/2" = 1'-0"



BUILING SECTION
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SCALE: 1/4" = 1'-0"

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FLASHING NOTES

DUE TO CLARITY NOT ALL REQUIRED FLASHINGS ARE INDICATED ON DRAWINGS. REFER TO FBC 2014 RESIDENTIAL, SECTION R703.8. APPROVED CORROSION-RESISTIVE FLASHING SHALL BE PROVIDED IN THE EXTERIOR WALL ENVELOPE IN SUCH A MANNER AS TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS. THE FLASHING SHALL EXTEND TO THE SURFACE OF THE EXTERIOR WALL FINISH AND SHALL BE INSTALLED TO PREVENT WATER FROM REENTERING THE EXTERIOR WALL ENVELOPE. APPROVED CORROSION-RESISTANT FLASHINGS SHALL BE INSTALLED AT ALL OF THE FOLLOWING LOCATIONS:

1. AT TOP OF ALL EXTERIOR WINDOW AND DOOR OPENINGS IN SUCH A MANNER AS TO BE LEAKPROOF, EXCEPT THAT SELF-FLASHING WINDOWS HAVING A CONTINUOUS LAP OF NOT LESS THAN 1-1/8 INCHES (28 MM) OVER THE SHEATHING MATERIAL AROUND THE PERIMETER OF THE OPENING, INCLUDING CORNERS, DO NOT REQUIRE ADDITIONAL FLASHING; JAMB FLASHING MAY ALSO BE OMITTED WHEN SPECIFICALLY APPROVED BY THE BUILDING OFFICIAL.
2. AT THE INTERSECTION OF CHIMNEYS OR OTHER MASONRY CONSTRUCTION WITH FRAME OR STUCCO WALLS, WITH PROJECTING LIPS ON BOTH SIDES UNDER STUCCO COPINGS.
3. UNDER AND AT THE ENDS OF MASONRY, WOOD OR METAL COPINGS AND SILLS.
4. CONTINUOUSLY ABOVE ALL PROJECTING WOOD TRIM.
5. WHERE EXTERIOR PORCHES, DECKS OR STAIRS ATTACH TO A WALL OR FLOOR ASSEMBLY OF WOOD-FRAME CONSTRUCTION.
6. AT WALL AND ROOF INTERSECTIONS.
7. AT BUILT-IN GUTTERS.

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Sheet Name :	BUILDING SECTIONS
Phase :	**PERMIT SET**
Revision :	
Date :	3.3.2017
Drawn by :	DC
Checked by :	JJM
Plot Scale :	
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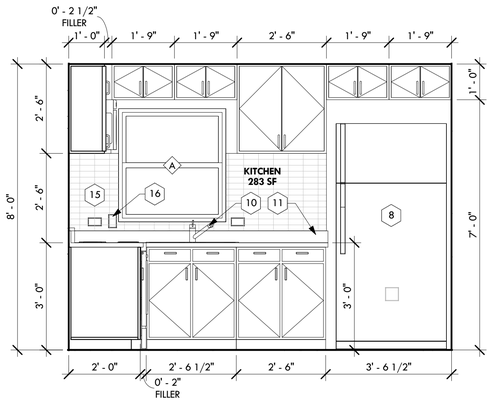

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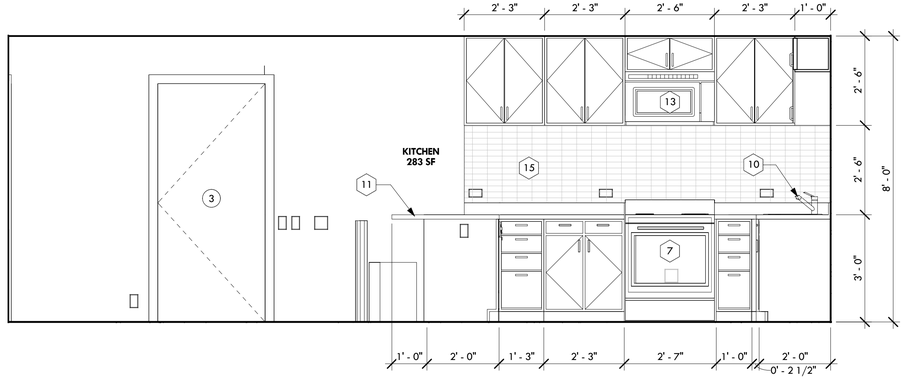

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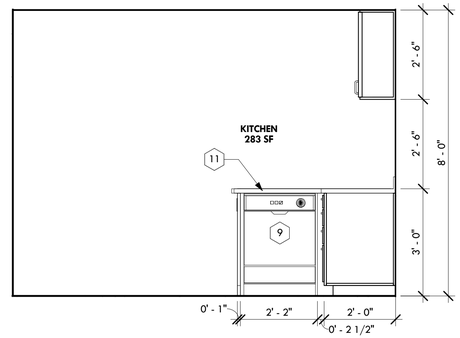
SCALE: 1/2" = 1'-0"



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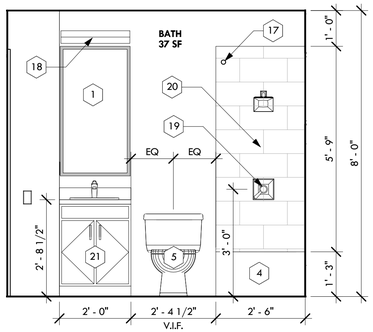
SCALE: 1/2" = 1'-0"



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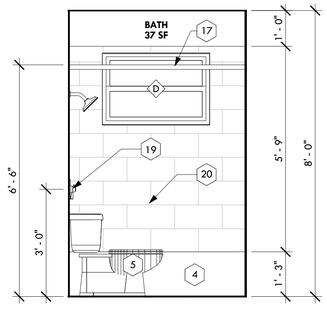

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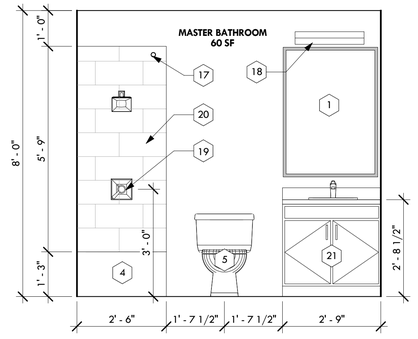

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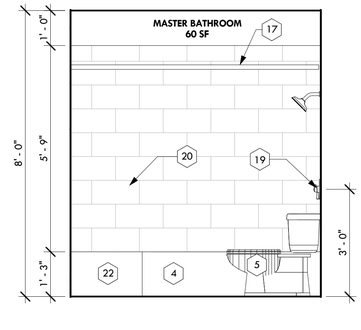

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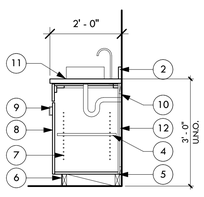
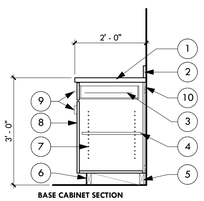
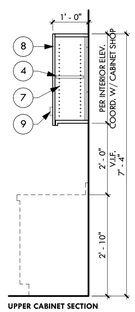


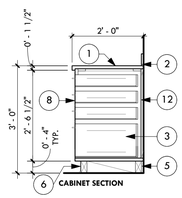
VANITY CABINET SECTION



BASE CABINET SECTION



UPPER CABINET SECTION



CABINET SECTION

CABINET DETAILS
10 1/2" = 1'-0"

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INTERIOR DESIGN LEGEND

1. **REFER TO G-2 FOR SPECIFICATIONS**
2. ELEVATIONS AS NOTED IN THE PLANS
3. REFERENCE ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION

TOWEL BAR - (T.B.)	= 56" A.F.F. OR U.N.O.
TOWEL BAR ABV.	= 36" ABV.
TUB DECK TUB DECK	
TOILET PAPER DISP.-(T.P.)	= 20" A.F.F.
ROD AND SHELF (SGL)-(R/S)	= 60" A.F.F.
ROD AND SHELF (DBL)-(R/S)	= 40" & 80" A.F.F.
CORNER SHELF	= 56" A.F.F.
MEDICINE CABINET-(M.C.)	= 75" TO TOP OF CAB. A.F.F.

PROPOSED NOTES "⬡"

ALL INTERIOR FINISHES TO BE COORDINATED WITH OWNER

1. MIRROR
2. STACKABLE WASHER AND DRYER-PROVIDE HANSON BOX IN WALL BEHIND
3. ENERGY STAR HIGH EFFICIENCY STORAGE ELECTRICAL WATER HEATER
4. STANDARD 30"x60" PORCELAIN-ENAMELED STEEL TUB - LEVER HANDLED SHOWER CONTROL
5. TOILET
6. FAUCET.
7. RANGE OVEN
8. REFRIGERATOR
9. DISHWASHER
10. STAINLESS STEEL KITCHEN SINK
11. COUNTERTOP
12. 5-1/2" WD. BASE BOARD
13. MICROWAVE
14. GFCI OUTLET
15. TILE BACKSPLASH - PROVIDE SAMPLES TO OWNER (NOT INCLUDED ON G-2 SPECIFICATIONS)
16. SWITCH TO FOOD DISPOSAL
17. CURTAIN ROD
18. VANITY LIGHT
19. SHOWER CONTROLS
20. SHOWER TILE
21. VANITY CABINET AND SINK/FAUCET
22. SHOWER SEAT

CABINET DETAILS "○"

REFER TO G-2 FOR BASIS OF DESIGN SPECIFICATIONS

1. 1" THICK LAMINATE COUNTERTOP WITH 1 1/2" THICK EDGE - UNLESS NOTED OTHERWISE
2. 3/4" WIDE X 4" HIGH LAMINATE BACKSPLASH"
3. FULL EXTENSION DRAWER SLIDE
4. ADJUSTABLE SHELVING. 3/4" THICK W/ PLASTIC LAMINATE FINISH. PROVIDE 1" THICK
5. CABINET SUB BASE. SEPARATE AND CONTINUOUS P.T. 2X4 WITH CONCEALED FASTENING TO CABINET BOTTOM. INSET WITH 1/4" AT CABINET FINISHED ENDS FOR A RECESSED BASE CONDITION
6. PLASTIC LAMINATE OVER 2"X4" FRAMING
7. HOLES DRILLED FOR ADJUSTABLE SHELVES AT 1 1/4" O.C. PROVIDE SHELF SUPPORT PINS TO ACCOMMODATE 3/4" & 1" THICK SHELVES. SHELF SUPPORTS TO BE TWIN-PIN, ANTI-TIP
8. OVERLAY CABINET DRAWER / DOOR FACE. MAXIMUM 1/8" REVEAL BETWEEN DRAWERS
9. SATIN CHROME WIRE PULL - COORD. W/ OWNER
10. 1 X 4 WOOD LEDGER SECURED TO WALL FRAMING
11. AT COUNTER MOUNTED LAVATORY LOCATIONS, PROVIDE LAMINATE WELDED TO 1" THICK EXTERIOR GRADE PLYWOOD
12. 1/4" PLYWOOD BACKING ON 1 X 3 HARDWOOD CABINET FRAME
13. MICROWAVE
14. GFCI OUTLET
15. TILE WALL RETURN
16. CABINET UNDERMOUNTED LIGHT OPTIONAL-COORD. WITH CABINET MANUF. & OWNER

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Sheet Name :	INTERIOR ELEVATIONS
Phase :	**PERMIT SET**
Revision :	
Date :	3.3.2017
Drawn by :	DC
Checked by :	JJM
Plot Scale :	
Project Number :	1659

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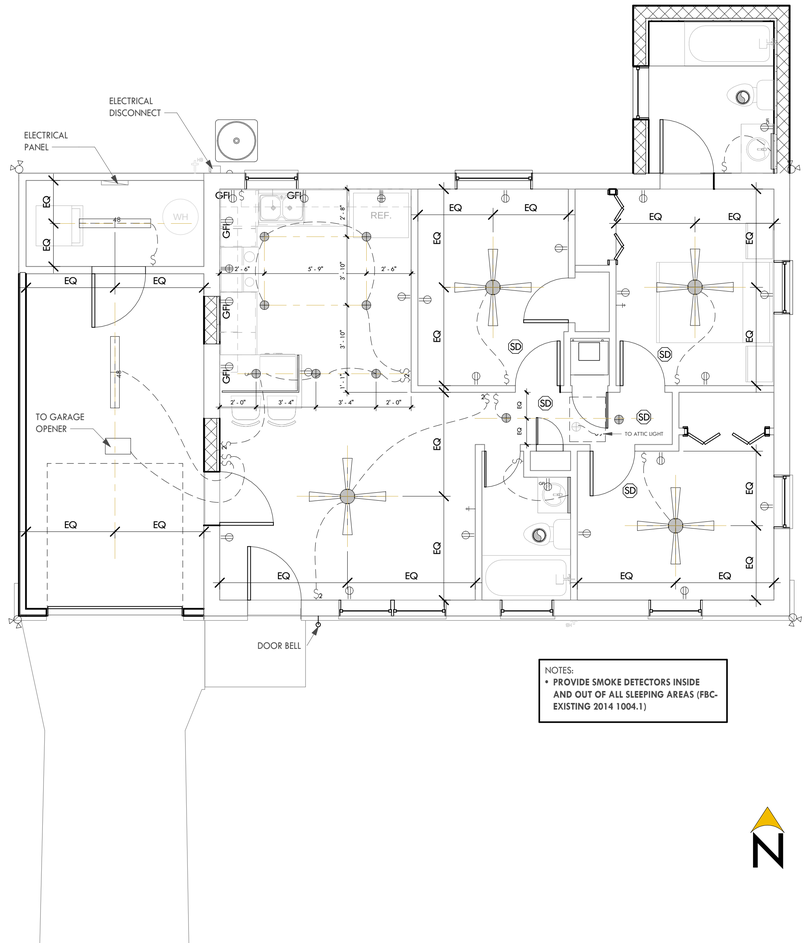

NOTES:
- **PROVIDE SMOKE DETECTORS INSIDE AND OUT OF ALL SLEEPING AREAS (FBC-EXISTING 2014 1004.1)**

N

ELECTRICAL PLAN
1 1/4" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

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ELECTRICAL LEGEND

1. ALL RECEPTACLES ABOVE COUNTERS SHALL BE MOUNTED HORIZONTALLY
2. ALTERNATE CANS MAY BE USED IF APPROVED BY OWNER
3. DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS SHALL BE COORDINATED WITH ARCHITECT AND OWNER
4. LIGHTING
5. AS SPECIFIED PER NFPA 70 (NEC) GFCI ARE TO BE INSTALLED IN BATHROOMS, GARAGES, CRAWL SPACES OR BELOW GRADE, KITCHENS LAUNDRY, UTILITY, WET BAR SINKS, WHERE RECEPTACLES ARE INSTALLED WITHIN 6 FEET OF OUTSIDE EDGE OF SINK, ROOMS NOT INTENDED AS HABITABLE ROOMS BELOW GRADE LEVEL

- RECESSED CAN
- RECESSED DIRECTIONAL LIGHT
- PENDANT LIGHT /CHANDELLIER BY OWNER
- 40W A 6" ROUND OPALEX-TUB/SHOWER
- EXHAUST FAN WITH FAN
- SD — SMOKE DETECTOR / CARBON MONOXIDE COMBO PER FBC AND F.S. 553.885
- DOUBLE FLOOD LIGHT W/CLOVERS AND 150W PAR 38 FL
- S — SWITCH AT 36"
- S3 — 2 WAY SWITCH AT 36"
- TV OUTLET AT 12" - WIRE FOR CABLE & SATELLITE (COAXIAL)
- 220V OUTLET AT 30"
- 110 V DUPLEX AT 12"
- WEATHERPROOF GFCI OUTLET ABOVE COUNTER
- WALL MOUNT FIXTURE
- CEILING FAN PREWIRE AND SWITCH
- UNDERMOUNT CABINET LIGHTING
- 48" CLG. MNT. WRAPPED FLUOR LIGHT
- WALL MOUNT LIGHT FIXTURE-CENTERED ABOVE MIRROR - COORD.W/OWNER

ELECTRICAL SPECS

1. ALL APPLIANCES TO BE ENERGY STAR APPROVED
2. ALL LIGHTING TO BE ENERGY STAR APPROVED

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Sheet Name :	ELECTRICAL PLAN
Phase :	**PERMIT SET**
Revision :	
Date :	3.3.2017
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The Genuine. The Original.

Overhead Door Corporation
2501 S. State Hwy 121, Suite 200
Lewisville, TX 75067
Phone 469 549 7100
Fax 469 549 7281
www.overheaddoor.com

April 10th, 2015

Subject: Evaluation Report for Model 521

SUBMITTED BY:
Overhead Door Corporation
3395 Addison Drive
Pensacola, FL 32514

One Door Drive
P.O. Box 67
Mt. Hope, OH 44660

1. PRODUCT NAME
Model 521

2. SCOPE OF EVALUATION
Structural Transverse Wind Loads and Large Missile Impact and Cyclic Wind Pressure Resistance. Since every door size cannot be tested, engineering analysis using a comparative analysis, as permitted per the Florida Product approval 61G-20, were used to analyze the doors and make the wind load designs.

3. USES
Model 521 garage doors are used for residential and commercial applications with specified allowable design pressures.

4. DESCRIPTION

General
Model 521 doors listed in table 1 of this report are sectional overhead garage doors composed of rails and stiles of extruded aluminum alloy 6063-T6 and .250" polycarbonate glazing. The sections are connected together with 13 gage end hinges and 15 gage center hinges. The doors have a maximum section height of 30.5" and are 1-3/4" thick. The doors are available in widths up to 16'2" and heights up to 30'-1".

Door Tracks
All door assemblies listed in this report have a minimum 13 ga vertical and a minimum 15 ga horizontal tracks with a minimum 33 ksi steel and finished with an ASTM A525 G-40 galvanized coating. The vertical tracks are attached to the supporting structure with jamb brackets or wall angle as specified on the most recent manufacturer's installation instructions/drawings.

7. SUBSTANTIATING DATA
1. Test Report Numbers 032515A, and 033115A in accordance with ANSI/DASMA 108-2005 and ANSI/DASMA 108-2012 for transverse wind load and ANSI/DASMA 115-2005 for large missile impact resistance by Wayne Dalton, a Division of Overhead Door Corporation, 3395 Addison Drive Pensacola, FL.
2. Test lab was accredited at the time of testing.
3. Installation instructions and supplemental data sheets prepared by Overhead Door Corporation.

8. REPORT SUMMARY
Upon review of the data submitted by Overhead Door Corporation, it is my opinion that the models as described in this report conform with or are a suitable alternative to the code standards and sections in the Florida Building Code.

9. LIMITATIONS
Any reference in this report to the manufacturer's "most recent" information is a direct reference to the most recent information submitted by Overhead Door Corporation to the Florida Building Commission as part of their Florida Product Approval application for the drawings listed in Table 1 of this report.
This evaluation report and the most recent installation instructions, when required by the building official, shall be submitted at the time of permit application.
The design of the supporting structural elements shall be the responsibility of the design professional for the building structure and in accordance with current building codes for the loads listed in Table 1 of this report.
The doors shall not be located in areas where the transverse wind loads exceed the allowable loads shown in Table 1 of this report.

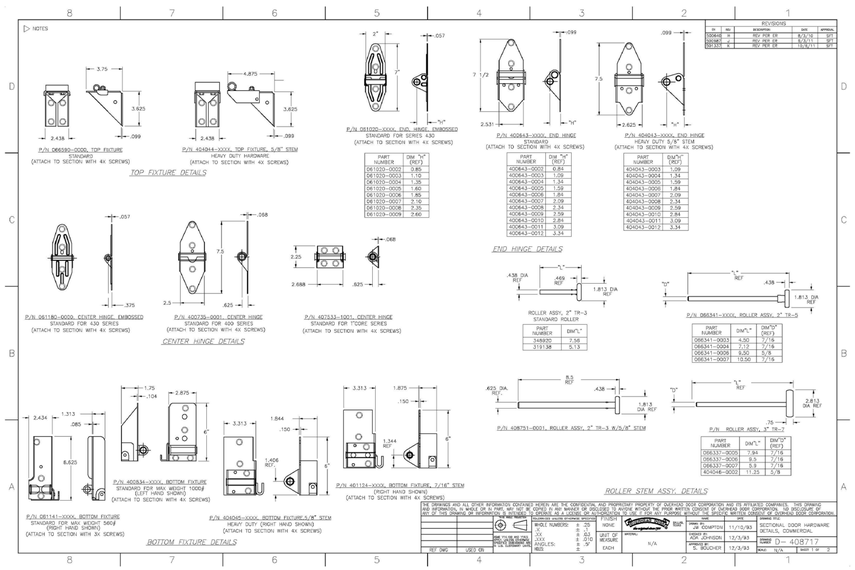
10. IDENTIFICATION
Each Model series covered by this report shall be labeled with the manufacturer's name and/or trademark for field identification.

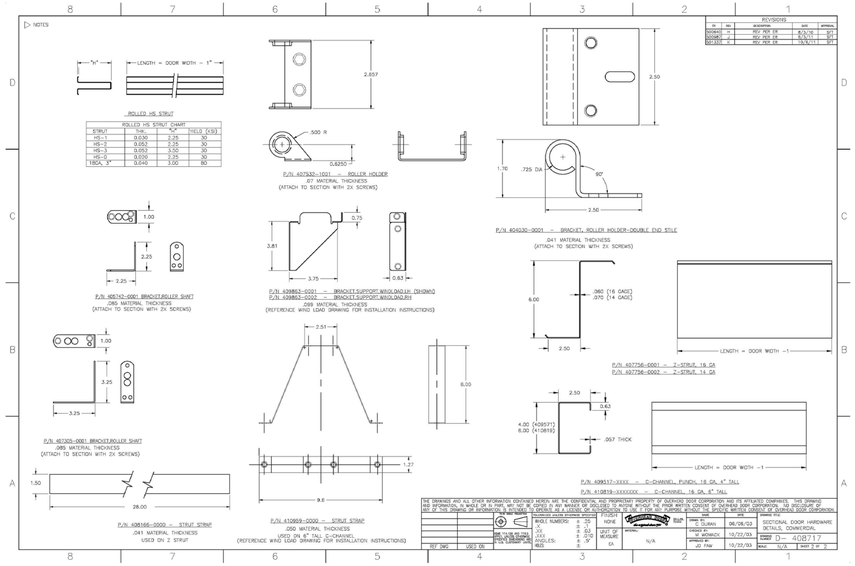
Please feel free to contact me if you need any additional information.

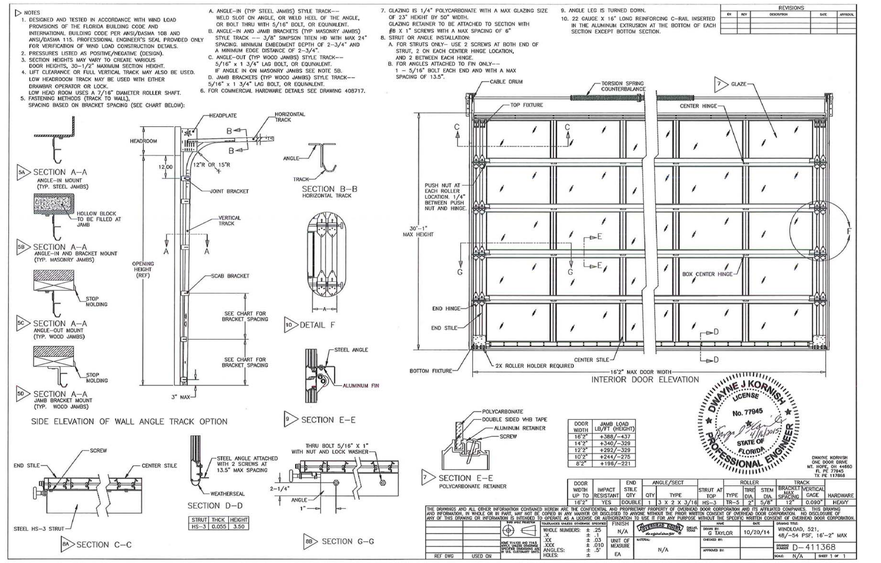
Sincerely,

Dwayne Kornish
FL PE 77945

Overhead Door Corporation
A Subsidiary of Sanwa Holdings Corporation
The Genuine. The Original.







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Sheet Name : PRODUCT APPROVAL - GARAGE DOOR
Phase : **PERMIT SET**
Revision :
Date : 3.3.2017
Drawn by : Author
Checked by : Checker
Plot Scale :
Project Number : 1659

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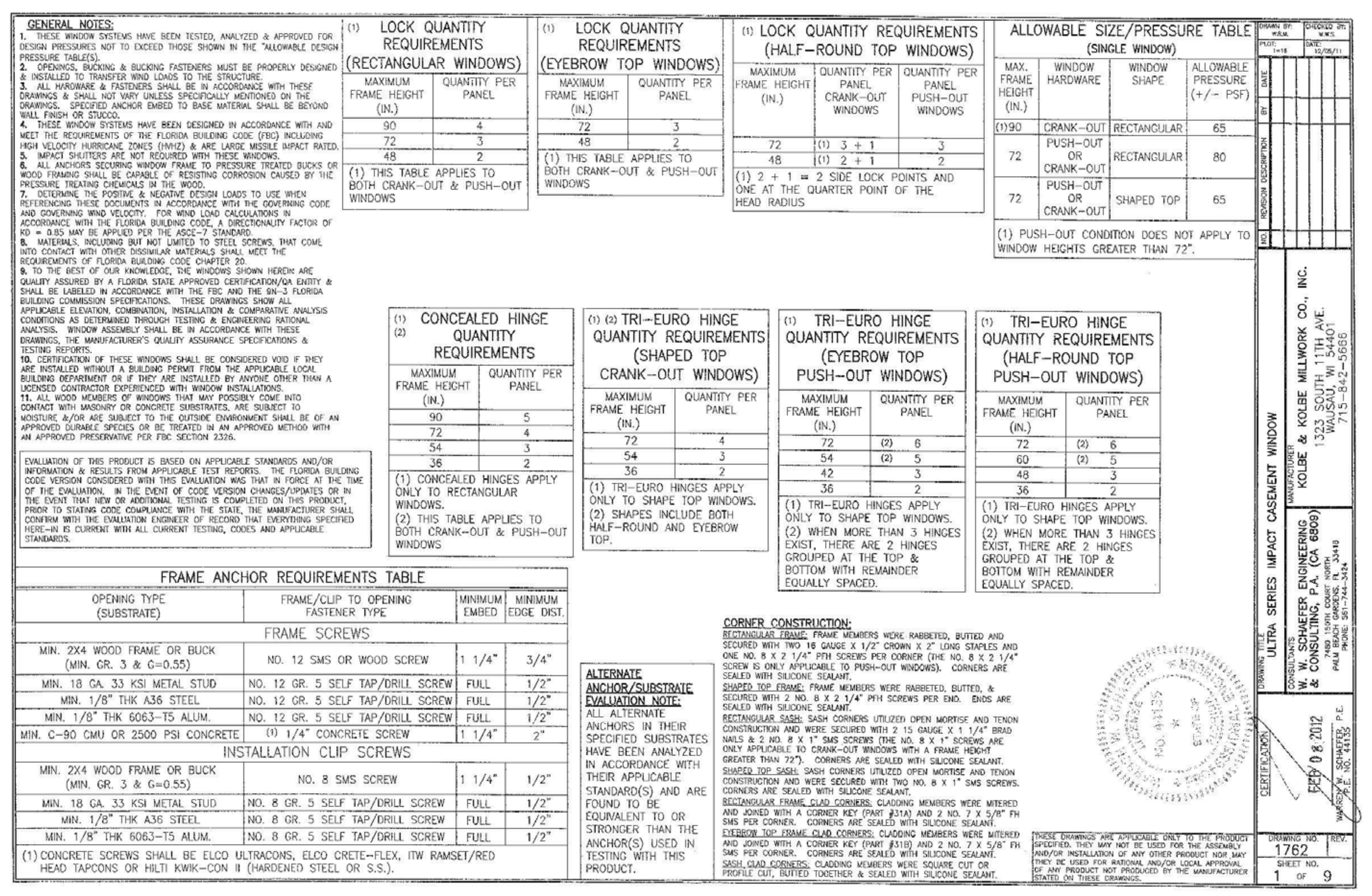
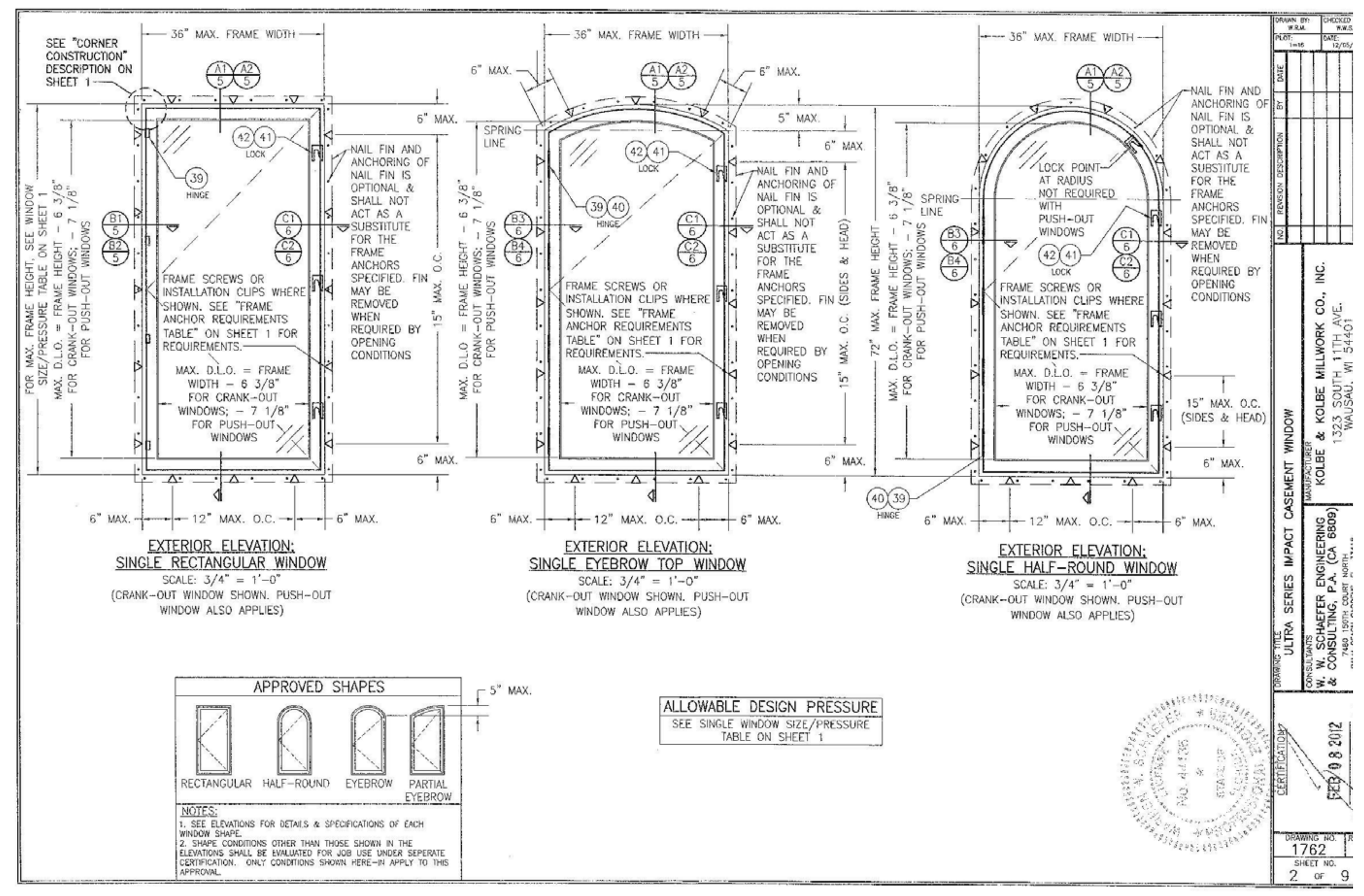
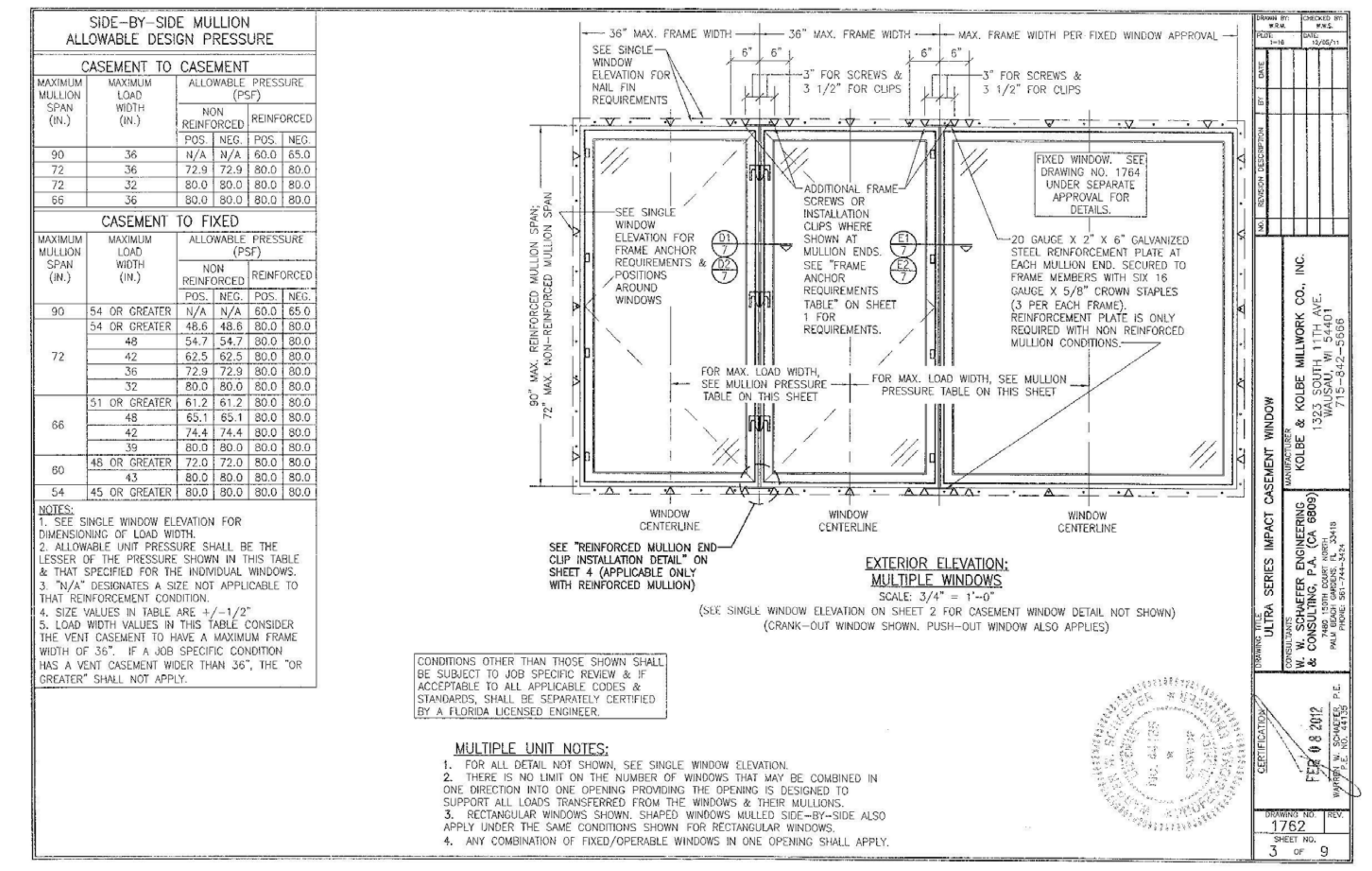
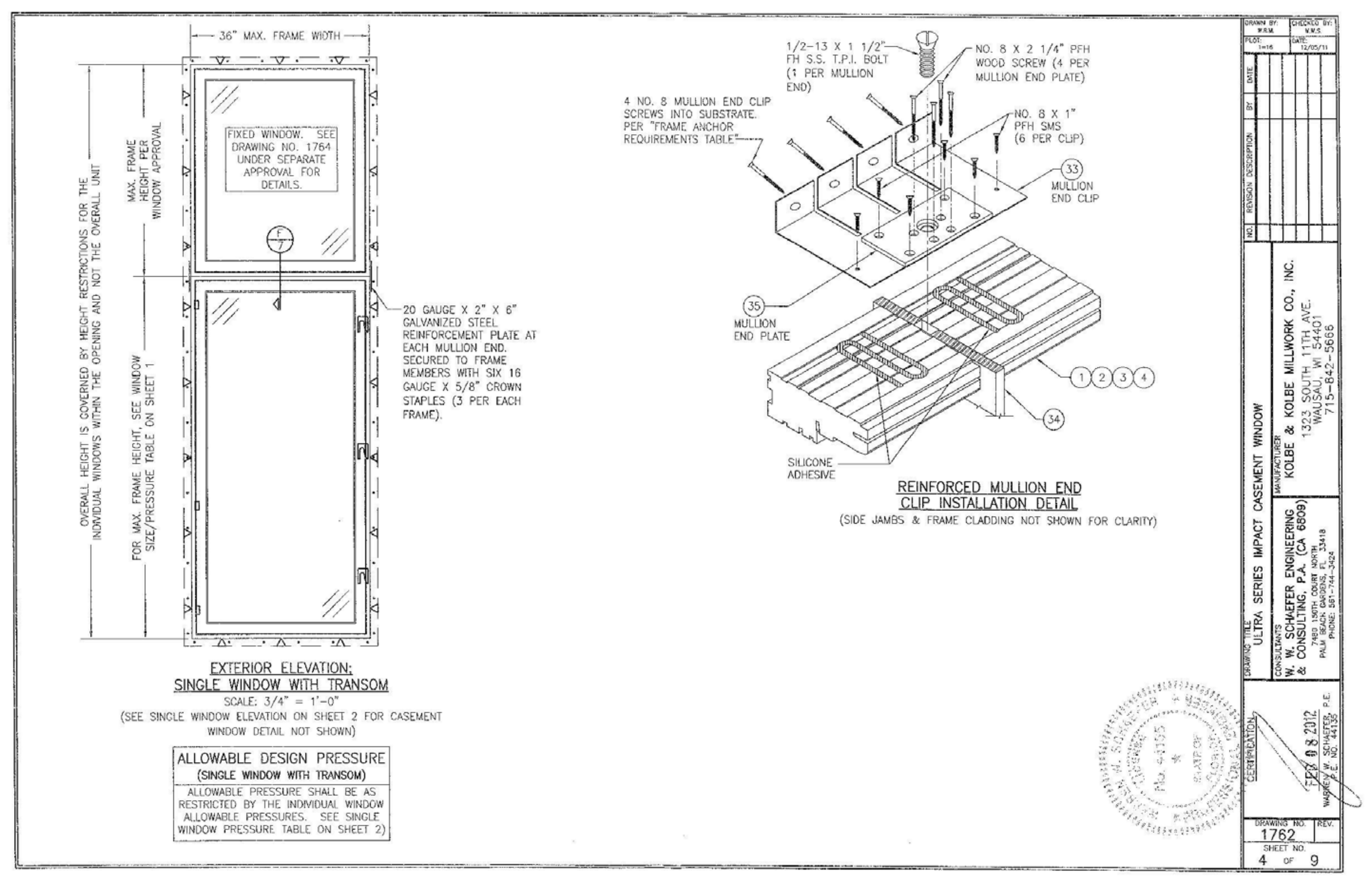
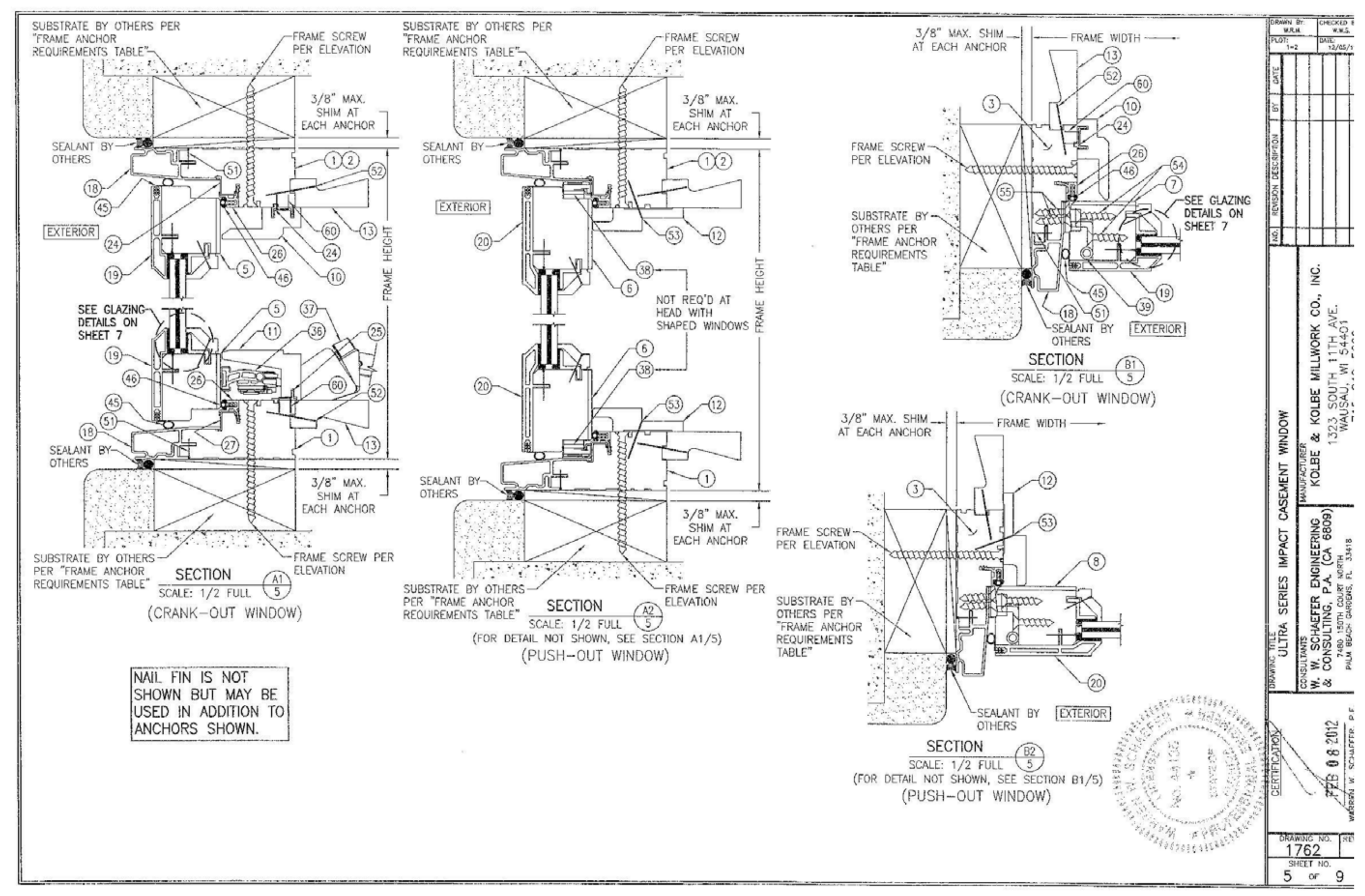
2/28/2017 10:05:44 PM1

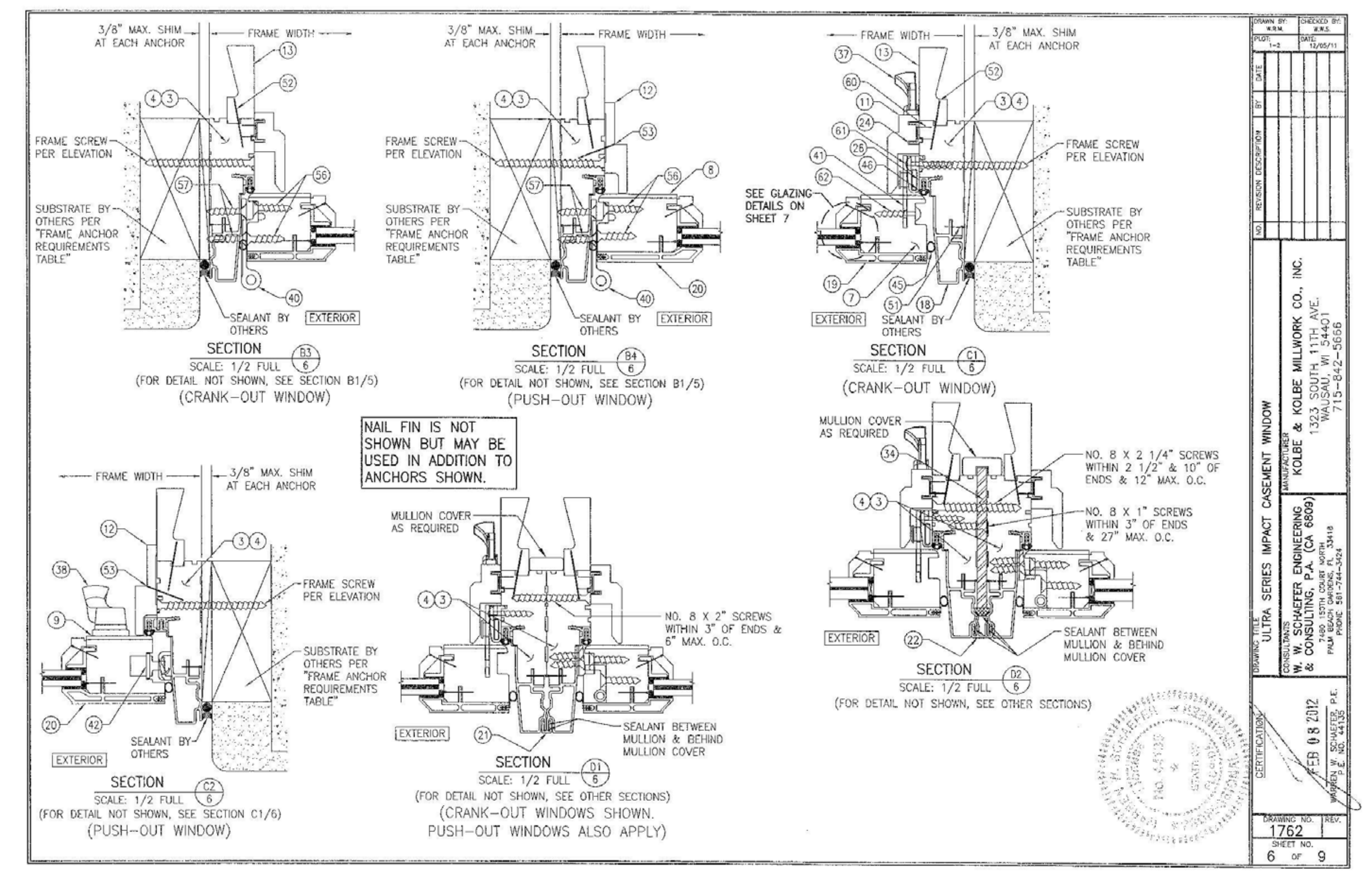


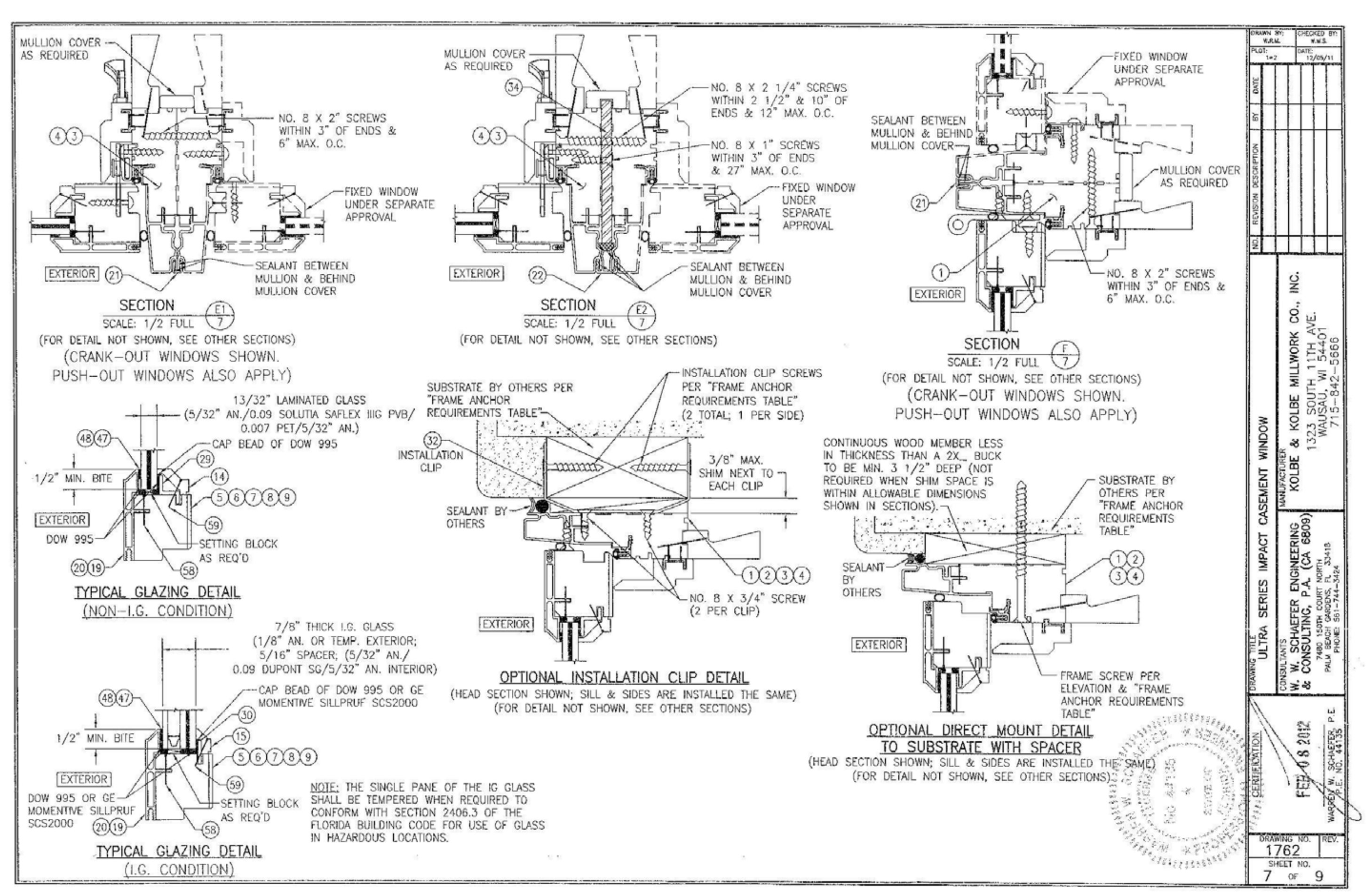


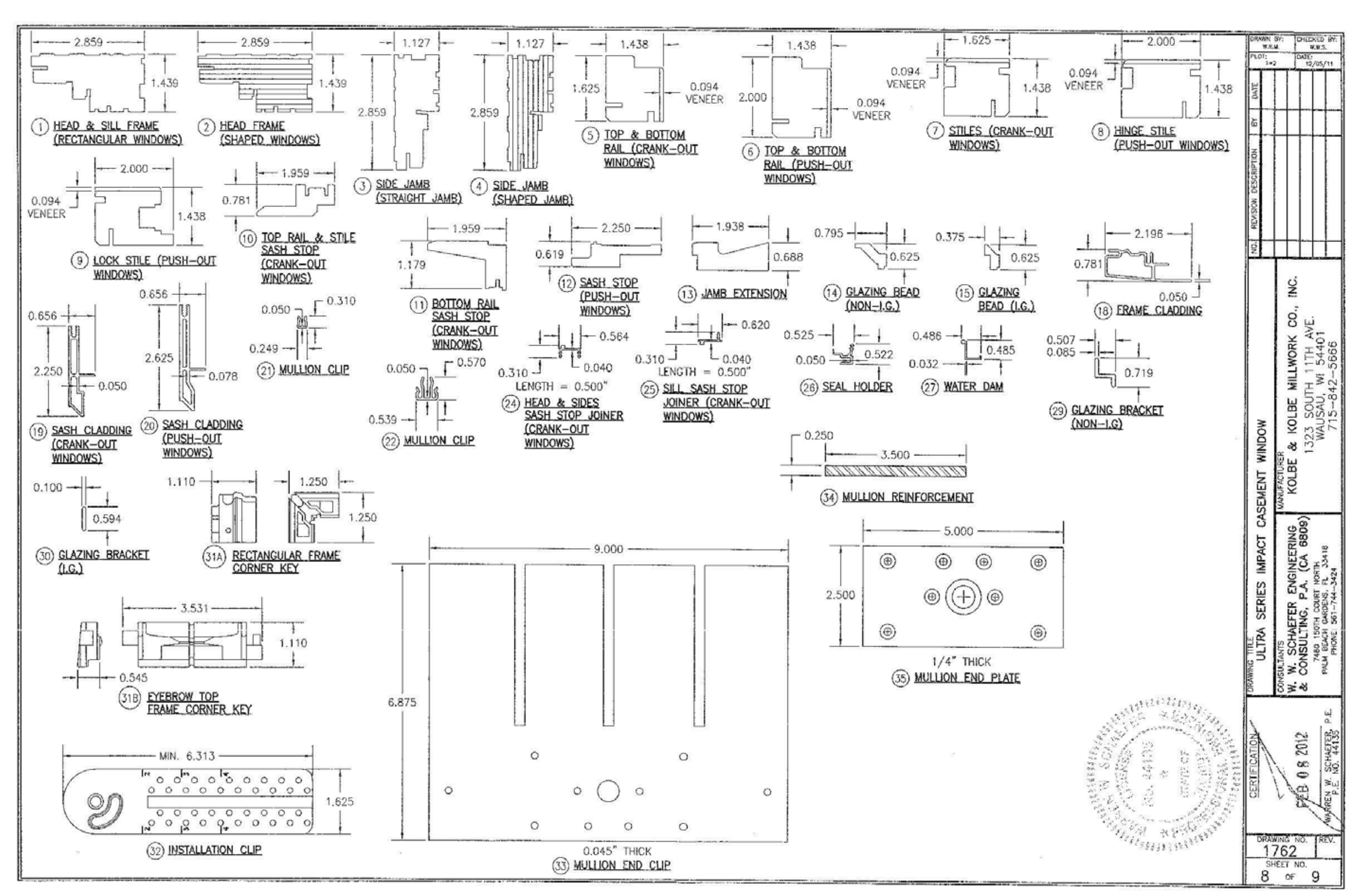












RESIDENCE RENOVATION

Pinellas County Housing Authority

12065 134th Pl N
LARGO, FL 33778

John J. McKenna
Architect P.A.

600 N. WILLOW ST. SUITE 300
TAMPA, FLORIDA 33606
PHONE : 813.258.5559
FLORIDA LICENSE - AA C001774
E-MAIL : mckenna42@verizon.net

Sheet Name :	PRODUCT APPROVAL - WINDOW
Phase :	**PERMIT SET**
Revision :	
Date :	3.3.2017
Drawn by :	DC
Checked by :	JJM
Plot Scale :	
Project Number :	1659

PA-2

2/28/2017 10:05:49 PM

MIAMI-DADE COUNTY
DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

GAF
1 Campus Drive
Parsippany, NJ 07054

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: GAF Timberline HD®, Timberline Natural Shadow®, and Timberline American Harvest® Shingles

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA 13-0419.04 and consists of pages 1 through 6.
The submitted documentation was reviewed by Juan E. Collao, R.A.

MIAMI-DADE COUNTY APPROVED

Juan E. Collao

ROOFING ASSEMBLY APPROVAL

Category:	Roofing
Sub-Category:	Asphalt Shingles
Materials:	Laminate
Deck Type:	Wood

SCOPE

This approves **GAF Timberline HD®, Timberline Natural Shadow®, and Timberline American Harvest® Shingles** as manufactured by GAF as described in Section 2 of this Notice of Acceptance.

PRODUCT DESCRIPTION

Product	Dimensions	Test Specifications	Product Description
GAF Timberline HD® *Manufacturing Locations* **#1, 2, 3, 4, 5, 6, 7**	13 1/4" x 39 3/8"	TAS 110	Fiberglass reinforced heavy weight asphalt roof shingle, with a laminate profile
GAF Timberline Natural Shadow® *Manufacturing Locations* **#1, 2, 3, 4, 5, 6, 7**	13 1/4" x 39 3/8"	TAS 110	Fiberglass reinforced heavy weight asphalt roof shingle, with a laminate profile
GAF Timberline American Harvest® *Manufacturing Locations* **#2, 4, 5, 6**	13 1/4" x 39 3/8"	TAS 110	Fiberglass reinforced heavy weight asphalt roof shingle, with a laminate profile

MANUFACTURING LOCATION

1. Tampa, FL
2. Michigan City, IN
3. Baltimore, MD
4. Myerstown, PA
5. Ennis, TX
6. Tuscaloosa, AL
7. Dallas, TX

MIAMI-DADE COUNTY APPROVED

EVIDENCE SUBMITTED

Test Agency	Test Identifier	Test Name/Report	Date
Underwriters Laboratories, Inc.	ASTM D3462	11CA48924	10/24/11
Underwriters Laboratories, Inc	ASTM D3462	10CA21994	04/22/11
Underwriters Laboratories, Inc.	ASTM D3462	10CA28717	07/26/11
Underwriters Laboratories, Inc.	ASTM D3462	05CA47541	11/10/06
Underwriters Laboratories, Inc.	ASTM D3462	06CA31580	11/30/06
PRI Asphalt Technologies, Inc.	ASTM D3462	GAF-101-02-02	11/02/05
Underwriters Laboratories, Inc.	ASTM D3462	06NK05159	08/09/06
PRI Asphalt Technologies, Inc.	ASTM D3462	GAF-098-02-02	11/08/05
Underwriters Laboratories, Inc.	ASTM D3462	02NK41809	08/11/02
Underwriters Laboratories, Inc.	ASTM D3462	03NK26444	10/17/03
Center for Applied Engineering	ASTM D3462	257989	05/13/97
Underwriters Laboratories, Inc.	TAS 107	01NK45803	04/13/94
Underwriters Laboratories, Inc.	TAS 107	06NK05159	08/09/06
Underwriters Laboratories, Inc.	TAS 107	04NK04273	02/20/04
Underwriters Laboratories, Inc.	TAS 107	05CA42840	11/11/05
Underwriters Laboratories, Inc.	TAS 107	02NK41811	11/11/02
Underwriters Laboratories, Inc.	TAS 107	03CA35209	10/17/03
Underwriters Laboratories, Inc.	TAS 107	04CA13850	08/30/04
Center for Applied Engineering	TAS 100	257989	04/01/97
PRI Asphalt Technologies, Inc.	TAS 100	GAF-044-02-01	01/13/04
PRI Asphalt Technologies, Inc.	TAS 100	GAF-098-02-01	11/08/05
PRI Asphalt Technologies, Inc.	TAS 100	GAF-101-02-01	11/09/05
PRI Asphalt Technologies, Inc.	TAS 100	GAF-116-02-02	03/23/06
PRI Asphalt Technologies, Inc.	TAS-100	ELK-083-02-01	10/16/02
		ELK-084-02-01	10/15/02
		ELK-085-02-01	10/14/02
		ELK-086-02-01	10/24/02
		ELK-087-02-01	10/21/02
		ELK-088-02-01	10/16/02
		ELK-107-02-01	10/09/03
		ELK-108-02-01	10/09/03
		ELK-109-02-01	10/09/03

LIMITATIONS

1. Fire classification is not part of this acceptance; refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Shall not be installed on roof mean heights in excess of 33 ft.
3. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

MIAMI-DADE COUNTY APPROVED

INSTALLATION

1. Shingles shall be installed in compliance with Roofing Application Standard RAS 115.
2. Flashing shall be in accordance with Roofing Application Standard RAS 115
3. The manufacturer shall provide clearly written application instructions.
4. Exposure and course layout shall be in compliance with Detail 'A', attached.
5. Nailing shall be in compliance with Detail 'B', attached.

LABELING

Shingles shall bear the imprint or identifiable marking of the manufacturer's name or logo, city and state of manufacturing facility, and following statement: "Miami-Dade County Product Control Approved" or the Miami-Dade County Product Control Seal as shown below.

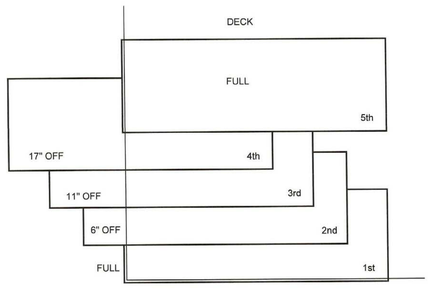
MIAMI-DADE COUNTY APPROVED

BUILDING PERMIT REQUIREMENTS

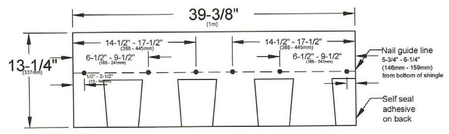
1. Application for building permit shall be accompanied by copies of the following:
   - **1.1** This Notice of Acceptance.
   - **1.2** Any other documents required by the Building Official or the applicable code in order to properly evaluate the installation of this system.

MIAMI-DADE COUNTY APPROVED

DETAIL A
COURSE LAYOUT



DETAIL B
OVERALL DIMENSIONS AND NAILING PATTERN



ENHANCED NAILING PATTERN - six nails per shingle*
* required by some local codes and required for enhanced wind coverage on certain products. See limited warranty for details.

These shingles MUST be nailed a nominal 6" (152mm) from bottom of shingle, above the cut outs, as shown. Nails must **not** be exposed.

END OF THIS ACCEPTANCE

MIAMI-DADE COUNTY APPROVED

MIAMI-DADE COUNTY APPROVED

Color Availability Chart

TIMBERLINE

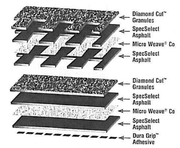
Ask your contractor which of these GAF plants supplies the shingles in your area...

	Baltimore/ Myerstown	Dallas/ Ennis	Michigan City	Minneapolis	Shafter	Tampa	Tuscaloosa
Most Popular Colors:							
Barkwood	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲
Charcoal	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲
Hickory	● ▲	● ▲	● ▲	● ▲	● ▲	●	●
Hunter Green	● ▲	●	● ▲	● ▲	● ▲	●	●
Shakewood	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲
Slate	● ▲	● ▲	● ▲	●	● ▲	● ▲	● ▲
Weathered Wood	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲	● ▲
Regional Colors:							
Birchwood			●	●	● ▲	●	●
Biscayne Blue	● ▲						
Copper Canyon					● ▲		
Driftwood						● ▲	●
Fox Hollow Gray	● ▲		●	●			
Mission Brown	●	●	●	●	● ▲		
Oyster Gray	●						
Patriot Red	● ▲		▲				
Pewter Gray	● ▲	●	● ▲	● ▲			● ▲
Sienna Sunset						▲	
Sunset Brick						● ▲	
SELECTION White[1]						●	●
Williamsburg Slate	●		●				

Color Key: ● - Timberline® HD® ▲ - Timberline® Ultra HD®

[1] Select colors are ENERGY STAR® qualified (U.S. only) and listed with the Cool Roof Rating Council (CRRC). See www.gaf.com for availability and details.

The many protective layers of a Timberline® Shingle



- Fiberglass asphalt shingle
- Lifetime ltd. transferable warranty[1]
- Smart Choice® Protection for the first 10 years[1]
- 130 mph ltd. wind coverage[2]
- Listed Class A Fire – UL 790
- Passes ASTM D7158, Class H
- ASTM D3161 Type I, Class F
- StainGuard® algae discoloration ltd. warranty (available in most areas)
- ENERGY STAR® Qualified (white only)[3]
- CSA-A123.5 [4]
- ASTM D3018 Type 1
- ASTM D3462[1]
- Miami-Dade County approved[5]
- Florida Building Code approved
- Texas Department of Insurance approved[6]
- ICC approved[5]
- Also classified in accordance with ICC ES AC438
- Approximately 64 Pieces/Sq.
- Approximately 3 Bundles/Square (Timberline® HD®)
- Approximately 4 Bundles/Square (Timberline® Ultra HD®)
- Approximately 256 Nails/Sq.
- 5 5/8" exposure

[1] See GAF Shingle & Accessory Ltd. Warranty for complete coverage and restrictions.
[2] Requires special installation; see GAF Shingle & Accessory Ltd. Warranty for details.
[3] ENERGY STAR® qualified in U.S. only.
[4] Refers to shingles sold in Canada only.
[5] Periodically tested by independent and internal labs to ensure compliance with ASTM D3462 or time of manufacture.
[6] Applies to some plants.

Lifetime Limited Transferable Warranty

Stain Guard Algae Discoloration Limited Warranty

PINELLAS COUNTY HOUSING AUTHORITY
PROGRESSIVE PINELLAS

RESIDENCE RENOVATION
Pinellas County Housing Authority
12065 134th Pl N
LARGO, FL 33778

John J. McKenna Architect P.A.
600 N. WILLOW ST. SUITE 300
TAMPA, FLORIDA 33606
PHONE : 813.258.5559
FLORIDA LICENSE - AA C001774
E-MAIL : mckenna42@verizon.net

Sheet Name :	PRODUCT APPROVAL - ROOF
Phase :	**PERMIT SET**
Revision :	
Date :	3.3.2017
Drawn by :	DC
Checked by :	JJM
Plot Scale :	
Project Number :	1659

PA-3

2/28/2017 10:05:52 PM

FLORIDA DEPARTMENT OF **Business & Professional Regulation**

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Florida Department of Business & Professional Regulation — License efficiently. Regulate fairly.

OFFICE OF THE SECRETARY

Product Approval
USER: Public User

Product Approval Menu > Product or Application Search > Application List > **Application Detail**

FL #	FL10124-R11
Application Type	Revision
Code Version	2010
Application Status	Approved
Comments	
Archived	☐
Product Manufacturer	GAF
Address/Phone/Email	1361 Alps Road Wayne, NJ 07470 (973) 872-4421 lindareith@trinityerd.com
Authorized Signature	Beth McSorley lindareith@trinityerd.com
Technical Representative	Beth McSorley
Address/Phone/Email	1361 Alps Road - Bldg 11-1 Wayne, NJ 07470 (973) 872-4421 BMcSorley@gaf.com
Quality Assurance Representative	
Address/Phone/Email	
Category	Roofing
Subcategory	Asphalt Shingles
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☑ Evaluation Report - Hardcopy Received
Florida Engineer or Architect Name who developed the Evaluation Report	Robert Nieminen
Florida License	PE-59166
Quality Assurance Entity	UL LLC
Quality Assurance Contract Expiration Date	05/03/2015
Validated By	John W. Knezevich, PE ☑ Validation Checklist - Hardcopy Received
Certificate of Independence	FL10124 R11 COI Trinity ERD CI - Nieminen - 2013.pdf

Referenced Standard and Year (of Standard)

Standard	Year
ASTM D3161 (Class F)	2006
ASTM D3462	2007
ASTM D7158 (Class H)	2007
TAS 107	1995

Equivalence of Product Standards

TRINITY | ERD

EXTERIOR RESEARCH & DESIGN, LLC.
Certificate of Authorization #9503
353 CHRISTIAN STREET, UNIT #13
OXFORD, CT 06478
PHONE: (203) 262-9245
FAX: (203) 262-9243

EVALUATION REPORT

GAF
1361 Alps Road, Building 7-3
Wayne, NJ 07470

Evaluation Report 01506.01.08-R13
FL10124-R11
Date of Issuance: 01/03/2008
Revision 13: 08/29/2013

SCOPE:
This Evaluation Report is issued under Rule 9N-3 and the applicable rules and regulations governing the use of construction materials in the State of Florida. The documentation submitted has been reviewed by Robert Nieminen, P.E. for use of the product under the Florida Building Code and Florida Building Code, Residential Volume. The products described herein have been designed to comply with the 2010 Florida Building Code sections noted herein.

DESCRIPTION: GAF Asphalt Roof Shingles

LABELING: Each unit shall bear labeling in accordance with the requirements the Accredited Quality Assurance Agency noted herein.

CONTINUED COMPLIANCE: This Evaluation Report is valid until such time as the named product(s) changes, the referenced Quality Assurance documentation changes, or provisions of the Code that relate to the product change. Acceptance of this Evaluation Report by the named client constitutes agreement to notify Robert Nieminen, P.E. if the product changes or the referenced Quality Assurance documentation changes. Trinity|ERD requires a complete review of this Evaluation Report relative to updated Code requirements with each Code Cycle.

ADVERTISEMENT: The Evaluation Report number preceded by the words "Trinity|ERD Evaluated" may be displayed in advertising literature. If any portion of the Evaluation Report is displayed, then it shall be done in its entirety.

INSPECTION: Upon request, a copy of this entire Evaluation Report shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This Evaluation Report consists of pages 1 through 5.

Prepared by:

Robert J.M. Nieminen, P.E.
Florida Registration No. 59166, Florida DCA ANE1983

The facsimile seal appearing was authorized by Robert Nieminen, P.E. on 08/29/2013
This does not serve as an electronically signed document. Signed, sealed hardcopies have been transmitted to the Product Approval Administrator and to the named client

CERTIFICATION OF INDEPENDENCE:
1. Trinity|ERD does not have, nor does it intend to acquire or will it acquire, a financial interest in any company manufacturing or distributing products it evaluates.
2. Trinity|ERD is not owned, operated or controlled by any company manufacturing or distributing products it evaluates.
3. Robert Nieminen, P.E. does not have nor will acquire, a financial interest in any company manufacturing or distributing products for which the evaluation reports are being issued.
4. Robert Nieminen, P.E. does not have, nor will acquire, a financial interest in any other entity involved in the approval process of the product.

TRINITY | ERD

ROOFING SYSTEMS EVALUATION:

1. SCOPE:

Product Category: Roofing
Sub-Category: Asphalt Shingles
Compliance Statement: GAF Asphalt Roof Shingles, as produced by GAF, have demonstrated compliance with the following sections of the Florida Building Code and Florida Building Code, Residential Volume through testing in accordance with the following Standards. Compliance is subject to the Installation Requirements and Limitations / Conditions of Use set forth herein.

2. STANDARDS:

Section	Property	Standard	Year
1507.2.5, R905.2.4	Physical Properties	ASTM D3462	2007
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D3161, Class F	2006
1507.2.7.1, R905.2.6.1	Wind Resistance	ASTM D7158, Class H	2007
1507.2.7.1, R905.2.6.1	Wind Resistance	TAS 107	1995

3. REFERENCES:

Entity	Examination	Reference	Date
GAF (PDM 1915)	Letter of Equivalency	Seal-A-Ridge Impact Resistant IR	01/13/2012
PRI (TST 5878)	ASTM D3462	GAF-059-02-01	09/02/2004
PRI (TST 5878)	ASTM D3462	GAF-080-02-01	05/25/2005
PRI (TST 5878)	Wind Driven Rain	GAF-407-02-01	01/21/2013
UL (TST 1740)	ASTM D3462	93NK6295	11/29/1993
UL (TST 1740)	ASTM D3462	99NK43835	01/12/2000
UL (TST 1740)	TAS 107	94NK9632	03/29/2000
UL (TST 1740)	ASTM D3462	01NK06632	02/02/2001
UL (TST 1740)	ASTM D3161, TAS 107	01NK9226	05/21/2001
UL (TST 1740)	ASTM D3161	01NK37122	12/18/2001
UL (TST 1740)	ASTM D3462	01NK37122	12/19/2001
UL (TST 1740)	ASTM D3161, TAS 107	02NK12980	04/10/2002
UL (TST 1740)	ASTM D3161, TAS 107	02NK30871	09/09/2002
UL (TST 1740)	ASTM D3161	03CA5367	03/11/2003
UL (TST 1740)	ASTM D3462	03NK26444	10/17/2003
UL (TST 1740)	ASTM D3462	04NK13850	06/07/2004
UL (TST 1740)	ASTM D3161	04NK13850	06/23/2004
UL (TST 1740)	ASTM D3161	04NK30546	03/10/2005
UL (TST 1740)	ASTM D3462	04NK22009	05/06/2005
UL (TST 1740)	ASTM D3161	04NK22009	05/09/2005
UL (TST 1740)	ASTM D3462	05NK27924	02/10/2006
UL (TST 1740)	ASTM D3161	05NK27924	02/11/2006
UL (TST 1740)	ASTM D3161, D3462	06CA18077	06/05/2006
UL (TST 1740)	ASTM D3161, D3462	06CA18074	06/16/2006
UL (TST 1740)	ASTM D3161, D3462	06CA35251	10/18/2006
UL (TST 1740)	ASTM D3462	06CA31603	12/01/2006
UL (TST 1740)	ASTM D3161, D3462	06CA41095	12/27/2006
UL (TST 1740)	ASTM D3161	07NK05228	03/13/2007
UL (TST 1740)	ASTM D3161	06CA31611	04/04/2007
UL (TST 1740)	ASTM D3161	06CA61148	04/09/2007
UL (TST 1740)	ASTM D3161, D3462	07CA31742	11/08/2007
UL (TST 1740)	ASTM D3161, D7158, D3462	08CA06100	03/13/2008
UL (TST 1740)	ASTM D3161, D3462	07CA55908	04/01/2008
UL (TST 1740)	ASTM D3161, D3462	09CA10592	03/26/2009
UL (TST 1740)	ASTM D3161, D3462	09CA06856	05/15/2009
UL (TST 1740)	ASTM D3161, D7158, D3462	09NK06647	08/01/2009
UL (TST 1740)	ASTM D3161, D7158, D3462	09CA27281	08/27/2009
UL (TST 1740)	ASTM D3161, D7158, D3462	10CA35554	03/05/2010
UL (TST 1740)	ASTM D3161, D7158, D3462	10CA13686	05/15/2010
UL (TST 1740)	ASTM D3462	10CA07264	05/27/2010
UL (TST 1740)	ASTM D3462	10CA11953	10/29/2010
UL (TST 1740)	ASTM D3161, D7158, D3462	10NK11951	10/30/2010
UL (TST 1740)	ASTM D3161, D7158, D3462	10NK12070	11/04/2010
UL (TST 1740)	ASTM D3161, D7158, D3462	08CA06100	01/30/2010
UL (TST 1740)	ASTM D3161, D7158, D3462	10CA53934	03/31/2011
UL (TST 1740)	ASTM D3161, D7158, D3462	11CA48924	10/22/2011
UL (TST 1740)	ASTM D3161, D7158, D3462	11CA47919	12/03/2011
UL (TST 1740)	ASTM D3161, D7158, D3462	11CA48408	12/08/2011

TRINITY | ERD

Entity	Examination	Reference	Date
UL (TST 1740)	ASTM D3161, D7158, D3462	11CA48725	12/09/2011
UL, LLC. (TST 9628)	ASTM D3462	12CA34891	10/12/2012
UL, LLC. (TST 9628)	ASTM D3161, D7158, D3462	12CA58151	02/15/2013
UL, LLC. (TST 9628)	ASTM D3161	12CA38083	02/26/2013
UL, LLC. (TST 9628)	ASTM D3161	13CA32332	06/18/2013
UL, LLC. (TST 9628)	ASTM D3161	13CA37934	08/02/2013
UL, LLC. (QUA 9625)	Quality Control	Inspection Report, File No. R21	05/03/2013

4. PRODUCT DESCRIPTION:

4.1 Marquis WeatherMax, Royal Sovereign and Sentinel are a fiberglass reinforced, 3-tab asphalt roof shingles.

4.2 Camelot, Camelot II, Capstone, Country Mansion, Country Mansion II, Grand Canyon, Grand Sequoia, Grand Sequoia IR, Grand Slate, Grand Slate II, Monaco, Sienna, Timberline American Harvest, Timberline ArmorShield II, Timberline Natural Shadow, Timberline Natural Shadow Arctic White, Timberline HD, Timberline Cool Series, Timberline Ultra HD and Woodland are fiberglass reinforced, laminated asphalt roof shingles.

4.3 Slateline is a fiberglass reinforced, 5-tab asphalt roof shingle.

4.4 Seal-A-Ridge, Seal-A-Ridge Armorshield, Seal-A-Ridge IR and Timbertex Hip and Ridge are fiberglass reinforced, hip and ridge asphalt roof shingles.

4.5 Pro-Start Starter Strip Shingles and WeatherBlocker Starter Strip Shingles are a starter strips for asphalt roof shingles.

5. LIMITATIONS:

5.1 This Evaluation Report is not for use in the HVHZ.

5.2 Fire Classification is not part of this Evaluation Report; refer to current Approved Roofing Materials Directory for fire ratings of this product.

5.3 Wind Classification:

5.3.1 All GAF shingles noted herein are Classified in accordance with FBC Tables 1507.2.7.1 and R905.2.6.1 to ASTM D3161, Class F and/or ASTM D7158, Class H, indicating the shingles are acceptable for us in all wind zones up to V_{asd} = 150 mph (V_{ult} = 194 mph). Refer to Section 6 for installation requirements to meet this wind rating.

5.3.2 All GAF hip & ridge shingles noted herein are Classified in accordance with FBC Tables 1507.2.7.1 and R905.2.6.1 to ASTM D3161, Class F, indicating the shingles are acceptable for us in all wind zones up to V_{asd} = 150 mph (V_{ult} = 194 mph). Refer to Section 6 for installation requirements to meet this wind rating.

5.3.3 Classification by ASTM D7158 applies to exposure category B or C and a building height of 60 feet or less. Calculations by a qualified design professional are required for conditions outside these limitations. Contact the shingle manufacturer for data specific to each shingle.

5.4 All products in the roof assembly shall have quality assurance audit in accordance with the Florida Building Code and F.A.C. Rule 9N-3.

TRINITY | ERD

6. INSTALLATION:

6.1 Underlayment:

6.1.1 Underlayment shall be acceptable to GAF and shall hold current Florida Statewide Product Approval, or be Locally Approved per Rule 9N-3, per FBC Sections 1507.2.3, 1507.2.4 or R905.2.3.

6.2 Starter Shingles:

6.2.1 Installation of Pro-Start Starter Strip Shingles and WeatherBlocker Starter Strip Shingles shall comply with the manufacturer's current published instructions.

6.3 Asphalt Shingles:

6.3.1 Installation of asphalt shingles shall comply with the manufacturer's current published instructions, using minimum four (4) nails per shingle in accordance with FBC Sections 1507.2 or R905.2, with the following exceptions:

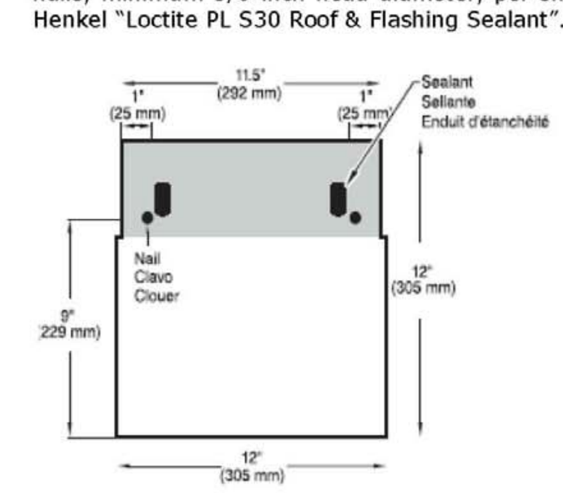
- Camelot, Camelot II, Grand Canyon, Grand Sequoia, Grand Sequoia IR, Grand Slate, Grand Slate II and Woodland require minimum five (5) nails per shingle.
- Slateline requires minimum six (6) nails per shingle.

6.3.2 Fasteners shall be in accordance with manufacturer's published requirements, but not less than FBC 1507.2.6 or R905.2.5. Staples are not permitted.

6.3.3 Where the roof slope exceeds 21 units vertical in 12 units horizontal, special methods of fastening are required. Contact the shingle manufacturer for details.

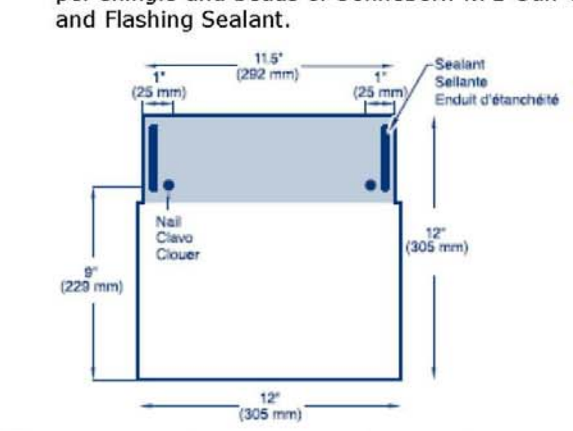
6.4 Hip & Ridge Shingles:

6.4.1 Installation of Seal-A-Ridge, Seal-A-Ridge Armorshield and Seal-A-Ridge IR asphalt shingles shall comply with the manufacturer's current published instructions with a minimum two (2) nails, minimum 3/8-inch head diameter, per shingle and nominal 0.25-inch diameter beads of Henkel "Loctite PL S30 Roof & Flashing Sealant".



TRINITY | ERD

6.4.2 Installation of Timbertex Hip and Ridge asphalt shingles shall comply with the manufacturer's current published instructions with a minimum two (2) nails, minimum 3/8-inch head diameter, per shingle and beads of Sonneborn NP1 Gun Grade Polyurethane Sealant or Henkel PL Roofing and Flashing Sealant.



6.4.3 Fasteners shall be in accordance with the manufacturer's published requirements, but not less than FBC 1507.2.6 or R905.2.5. Staples are not permitted.

7. LABELING:

7.1 Each unit shall bear a permanent label with the manufacturer's name, logo, city, state and logo of the Accredited Quality Assurance Agency noted herein.

7.2 Asphalt shingle wrappers shall indicate compliance with one of the required classifications detailed in FBC Table 1507.2.7.1 / R905.2.6.1.

8. BUILDING PERMIT REQUIREMENTS:

As required by the Building Official or Authority Having Jurisdiction in order to properly evaluate the installation of this product.

9. MANUFACTURING PLANTS:

Contact the named QA entity for information on which plants produce products covered by Florida Rule 9N-3 QA requirements.

10. QUALITY ASSURANCE ENTITY:

UL LLC – QUA9625; (847) 664-3281

\- **END OF EVALUATION REPORT -**

PINELLAS COUNTY HOUSING AUTHORITY — PROGRESSIVE PINELLAS

RESIDENCE RENOVATION
Pinellas County Housing Authority
12065 134th Pl N
LARGO, FL 33778

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600 N. WILLOW ST. SUITE 300
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Sheet Name :	PRODUCT APPROVAL - ROOF
Phase :	PERMIT SET
Revision :	
Date :	3.3.2017
Drawn by :	DC
Checked by :	JJM
Plot Scale :	
Project Number :	1659

PA-4

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STRUCTURAL SPECIFICATIONS

I. GENERAL

1. SUBCONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION TO ENSURE THE SAFETY OF THE BUILDING UNTIL STRUCTURAL SYSTEM IS COMPLETED. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, SHORING, GUYS TO TIE-DOWNS THAT MAY BE NECESSARY.
2. SUBCONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF HIS WORK DURING CONSTRUCTION.
3. APPLICABLE BUILDING CODES: - FLORIDA BUILDING CODE (2014). DRAWINGS ARE CERTIFIED FOR STRUCTURAL PORTION ONLY THAT INCLUDES FOUNDATION SYSTEMS, BEAMS, POSTS, SHEARWALLS, STRUCTURAL CONNECTORS, REQUIRED WIND DESIGN PRESSURES, FASTENERS, SHEATHING MATERIAL AND THICKNESS, WALL STRUCTURAL ELEMENTS, HEADERS OVER WINDOWS, REINFORCED CONCRETE, STEEL FRAMING, WOOD FRAMING, MASONRY SIZES AND REINFORCEMENT, AND SPECIFICATIONS DESCRIBED HEREIN.
4. DESIGN LOADS:
   A.ROOF:
      a)LIVE LOAD 20 PSF
      b)DEAD LOAD 10 PSF (SHINGLES & METAL)
         (i) 20 PSF (TILE)
   B. UNINHABITABLE ATTICS WITH LIMITED STORAGE
      a)LIVE LOAD 20 PSF
      b)DEAD LOAD 10 PSF
   C.FLOOR:
      a)BALCONIES LIVE LOAD 60 PSF
      b)ALL OTHER ROOMS LIVE LOAD 40 PSF
      c) DEAD LOAD 10 PSF
      d)SNOW AND SEISMIC LOAD: NONE
5. STRUCTURAL MEMBER ALLOWABLE DEFLECTION
   A.RAFTERS HAVING SLOPES GREATER THAN 3:12 WITH NO FINISHED CEILING ATTACHED TO RAFTERS L/180
   B. INTERIOR WALLS AND PARTITIONS H/180
   C.FLOORS AND PLASTERED CEILINGS L/360
   D.ALL OTHER STRUCTURAL MEMBERS L/240
   E. EXTERIOR WALLS H/360
   F. LINTELS SUPPORTING MASONRY VENEER WALLS L/600
6. ALL CONTRACTORS, SUBCONTRACTORS, SUPPLIERS AND FABRICATORS SHALL BE RESPONSIBLE FOR THE CONTENT OF DRAWINGS, AND FOR THE SUPPLY AND DESIGN OF APPROPRIATE MATERIALS AND WORK PERFORMANCE.
7. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, ERECTED, USED, CLEANED, AND CONDITIONED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
8. ALL STUCCO FINISH SHALL BE APPLIED AS PER ASTM C926 AND CONTROL JOINTS PROVIDED AS PER ASTM C1063. CURING TIME AS PER SECTION R704.6.5 OF THE FLORIDA BUILDING CODE 5TH EDITION (2014).

II. SITE WORK

1. FOUNDATION DESIGN IS BASED ON A MINIMUM SOIL PRESSURE INDICATED ON THE FOUNDATION PLAN. THE CONTRACTOR IS RESPONSIBLE TO FOLLOW RECOMMENDATIONS INCLUDED IN THE RESPECTIVE GEOTECHNICAL REPORT AND SHALL CONFIRM THE SOIL CONDITIONS. SHOULD FIELD CONDITIONS INDICATE THIS MINIMUM CONDITION DOES NOT EXIST, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF RECORD.
2. THE SUBGRADE UNDER THE NEW CONCRETE FOUNDATIONS SHALL BE COMPACTED TO 95% OPTIMUM DENSITY. SOIL COMPACTION TESTS TO BE TAKEN BY A QUALIFIED SOILS LAB PRIOR TO POURING ANY CONCRETE.
3. FOOTINGS SHALL BE NEAT EXCAVATED WHERE POSSIBLE WITH SIDES AND TOP EDGES FREE OF LOOSE OR WET MATERIALS. WHERE NEAT EXCAVATION IS NOT POSSIBLE, FOOTINGS EXCAVATION SHALL BE OPEN CUT WITH EDGES FORMED AND BRACED. ALL FOOTINGS WITH FORMED EDGES SHALL BE BACKFILLED FROM BOTTOM TO TOP OF FOOTING WITH SELECT FILL. THE BOTTOM EXCAVATION SHALL BE CLEAN AND DRY WITH ALL LOOSE MATERIAL REMOVED FOR AN ESSENTIALLY FLAT BEARING SURFACE.

III. CAST IN PLACE CONCRETE

1. CONCRETE TO BE NORMAL WEIGHT WITH THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
   A.FOOTINGS, SLAB-ON-GRADE, SLAB FILL: 2500 PSI
   B. MASONRY WALL TIE BEAMS, TIE COLUMNS: 2500 PSI
   C.REINFORCED CONCRETE BEAMS AND COLUMNS 3000 PSI
2. CONCRETE SHALL BE READYMIX PER ASTM C94:
   A.PORTLAND CEMENT - ASTM C150
   B. AGGREGATES - ASTM C33 (3/4" MAX.)
   C.NO CALCIUM CHLORIDE
   D.AIR ENTRAINING - ASTM C260
   E. WATER REDUCING - ASTM C494
   F. FLYASH - ASTM C618-78 CLASS F (20
   G. WATER - CLEAN AND POTABLE
3. REINFORCING STEEL: ASTM A615 GRADE 40, DEFORMED BARS.
4. REQUIRED SLUMP RANGE = 3" TO 5".
5. WELDED WIRE FABRIC: ASTM A185
6. MOISTURE BARRIER: 6 MIL POLYETHYLENE.
7. CODES AND STANDARDS:
   A.ACI 301 "SPEC FOR STRUCTURAL CONCRETE FOR BUILDINGS."
   B. ACI 305 "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING."
   C.ACI 318 "BLDG. CODE REQUIREMENTS FOR REINF. CONCRETE."
   D.ACT 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
8. MINIMUM LAP SPLICE = 40 BAR DIAMETERS UNLESS NOTED OTHERWISE.
9. CONCRETE FINISHES SHALL BE PER CONTRACTOR'S SPEC'S.
10. SUBCONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF ALL FORMWORK, SHORING, AND RESHORING.
11. REINFORCING BAR COVER:
   A.FOOTINGS 3"
   B. COLUMNS 1 1/2"
   C.BEAMS AND WALLS 1 1/2"
   D.SLABS 3/4" (INTERIOR), 1 1/2" (EXTERIOR)
12. CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME.
13. PROVIDE CORNER BARS AT ALL WALL FOOTING AND BEAM CORNERS TO MATCH HORIZONTAL BARS. (25" MINIMUM LAP FOR #5 BARS, OTHERS AS PER ACI 318)
14. ALL BUILDING SLABS-ON-GRADE SHALL BE NOMINAL 4" THICK, REINFORCED WITH 6x6-W1.4 W.W.F. ON 6 MIL VAPOR BARRIER. SEE PLANS FOR OTHER CONDITIONS AND SIZES. NO FIBERMESH ALLOWED UNLESS OTHERWISE NOTED ON THE FOUNDATION PLAN
15. ANCHOR BOLTS FOR WOOD LEDGERS AND PLATES TO CONCRETE OR MASONRY (OPTIONS)
   A.J BOLTS - USE 1/2" X 8" "J" BOLTS WITH 6" EMBEDMENT AND 2" PROJECTION WHEN INSTALLED PRIOR TO PLACING CONCRETE, AS SHOWN ON DRAWINGS.
   B. EXPANSION ANCHORS - USE 1/2" X 4" EMBED, HILTI KWIK BOLT II, OR EQUAL, AT LOCATIONS (OTHER THAN EDGE CONDITIONS) IN LIEU OF 1/2" X 8" "J" BOLTS.
   C.EPOXY ANCHORS IN CONCRETE - USE 1/2" X 4-1/4" IMBED, WITH HILTI C100), OR ANCHOR BOND BY CELTITE, INC., AT EDGE OF SLAB CONDITION WHERE BOLT IS LESS THAN 6" TO A CONCRETE EDGE.
   D.EPOXY ANCHORS IN TOP OF BLOCK WALLS - USE THREADED ROD (3/4" X A6-5/8" IMBED) ON TOP OF 8" MASONRY WALLS WITH HILTI HIT C-100 ADHESIVE OR ANCHOR BOND, WHEN 1/2" X 8" "J BOLTS ARE OMITTED.
16. FOOTING SIZES SHOWN ARE TYPICAL ONLY FOR STATED SOIL BEARING PRESSURE AND CONSISTED COMPACTION. CONTRACTOR SHALL BE RESPONSIBLE FOR FOOTINGS COMPLYING WITH THE DESIGN REQUIREMENTS OF SPECIFIC SOIL CONDITIONS.
17. PROVIDE 1/2" EXPANSION JOINT MATERIAL BETWEEN ALL CONCRETE SLABS AND ABUTTING CONCRETE OR MASONRY WALLS OCCURRING IN EXTERIOR OR UNHEATED AREAS.
18. PROVIDE 1/4" SAW CUT EXPANSION JOINTS ON SLABS SPACED AT NO MORE THAN 18 FEET ON CENTER EACH WAY AND AS SHOWN ON PLANS

IV. MASONRY

1. HOLLOW LOAD BEARING UNITS (CMU) SHALL CONFORM TO ASTM C90, NORMAL WEIGHT, TYPE I, GRADE N. MINIMUM NET COMPRESSIVE STRENGTH = 1900 PSI.
2. MORTAR SHALL BE TYPE M OR S AND CONFORM TO ASTM C270.
3. CONCRETE GROUT SHALL CONFORM TO ASTM C476:
   A.2,500 PSI AT 28 DAYS.
   B. 3/8" MAXIMUM AGGREGATE.
   C.8" - 11" SLUMP.
4. BARS SHALL HAVE MINIMUM CLEARANCE OF 1/2" FROM MASONRY. THE CLEAR DISTANCE BETWEEN BARS SHALL NOT BE LESS THAN ONE BAR DIAMETER, NOR LESS THAN 1".
5. VERTICAL REINFORCING SHALL BE AT ALL CORNERS, EACH JAMB OF OPENINGS, UNDER ALL GIRDER LOADS, AND NOT TO EXCEED 6'0" O/C FOR STRAIGHT WALLS, OR AS SHOWN ON THE DRAWINGS. FILL CELLS WITH CONCRETE GROUT AS SPECIFIED. PROVIDE ACI 318 90 DEGREE STANDARD HOOKS INTO FOOTING, AND TIE BEAMS.
6. REINFORCING BARS SHALL BE STRAIGHT EXCEPT FOR BENDS AROUND CORNERS AND WHERE BENDS OR HOOKS ARE DETAILED ON THE PLANS.
7. REINFORCING BARS SHALL BE LAPPED 40 BAR DIAMETERS WHERE SPLICED AND SHALL BE WIRED TOGETHER.
8. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN SIX VERTICAL. DOWELS SHALL BE GROUTED INTO A CORE IN VERTICAL ALIGNMENT, EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCEMENT.
9. CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE OF MASONRY IN EACH GROUT POUR WHEN THE POUR HEIGHT EXCEEDS 5'. PROVIDE 4" X 4" OBSERVATION HOLE TO VERIFY CONCRETE GROUT PLACEMENT.
10. PLACE ALL MASONRY IN RUNNING BOND WITH 3/8" MORTAR JOINTS. PROVIDE COMPLETE COVERAGE FACE SHELL MORTAR BEDDING, HORIZONTAL AND VERTICAL. FULLY MORTAR WEBS IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS AND ADJACENT TO GROUTED CELLS.
11. PROVIDE 8" X 8" PRECAST REINFORCED CONCRETE LINTELS OVER ALL MASONRY OPENINGS NOT SHOWN TO HAVE A STRUCTURAL BEAM. MINIMUM END BEARING = 4" REFER TO LINTEL SCHEDULE (MINIMUM CAPACITY OF 1000 PLF).
12. PROVIDE METAL CAVITY CAPS, 6" WIRE MESH, OR EQUAL PRODUCTS, INC., WHERE REQUIRED TO RETAIN GROUT IN VERTICAL CELLS.
13. PROVIDE HORIZONTAL REINFORCEMENT AT EVERY OTHER COURSE USING 120 TRUSS-MESH BY HOHMANN & BARNARD.

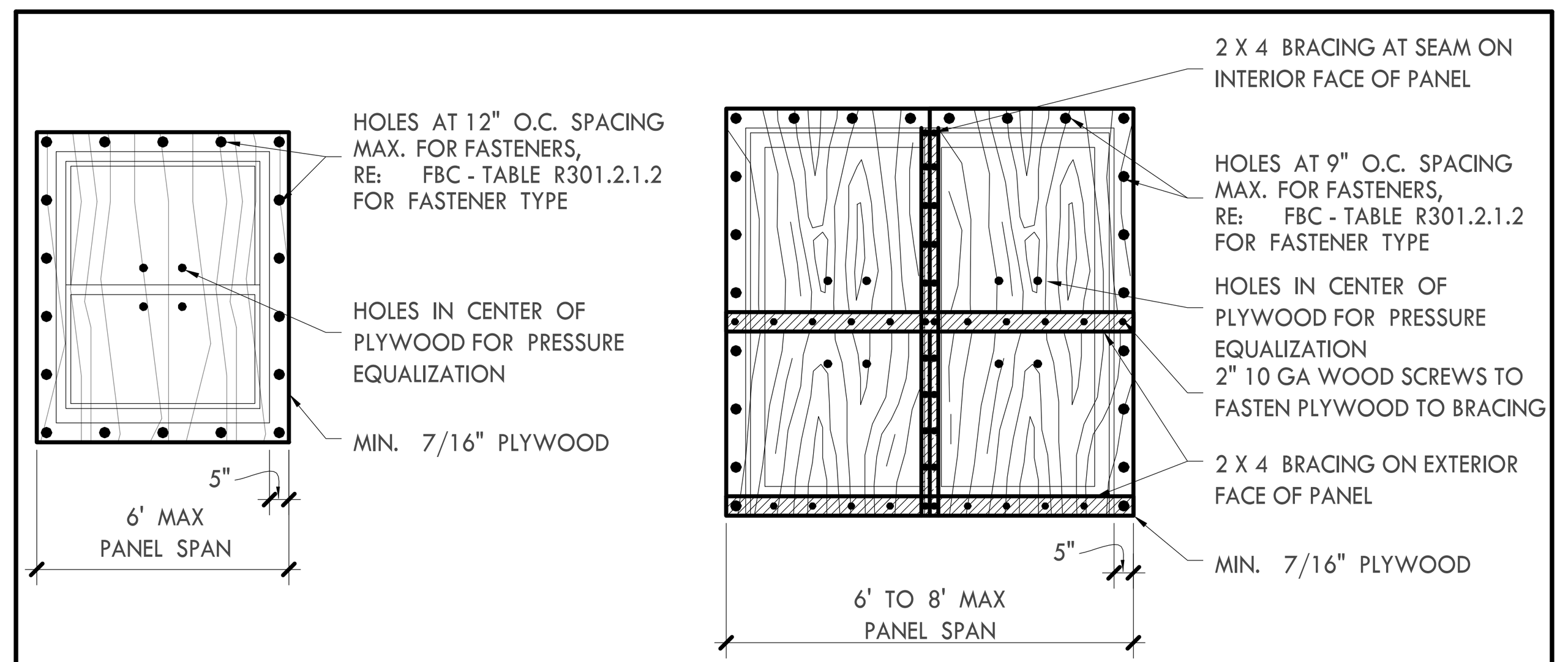
V. CARPENTRY

1. DIMENSIONED LUMBER SHALL BE DRESSED S4S, AND SHALL BEAR THE GRADE STAMP OF THE MANUFACTURER'S ASSOCIATION.
2. ALL LUMBER SHALL BE SOUND, SEASONED, AND FREE FROM WARP.
3. ALL STRUCTURAL BEAMS AND HEADERS SHALL BE SOUTHERN YELLOW PINE (SYP.) NO. 1 GRADE OR BETTER, WITH SINGLE MEMBER (UNFACTORED) STRESSES AS FOLLOWS:
   a)Fv = 90 PSI
   b)Fc = 975 PSI
   c) E = 1,600,000 PSI
   d)19% MAXIMUM MOISTURE CONTENT
   A.FRAMING LUMBER SHALL BE #2 SPRUCE-PINE-FIR OR BETTER
   B. INTERIOR NON-LOAD BEARING WALLS MAY BE UTILITY GRADE.
4. ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED.
5. PRESSURE TREATED LUMBER SHALL BE PROVIDED IN ACCORDANCE WITH THE AMERICAN WOOD PROTECTION ASSOCIATION LATEST STANDARDS.
6. SHEATHING FOR ROOFS AND WALLS SHALL BE APA RATED (EXPOSURE 1) SHEATHING WITH EXTERIOR GLUE. ALL ROOF SHEATHING TO BE INSTALLED WITH PLYCLIPS. (MAXIMUM 24" O/C). THICKNESS TO BE MINIMUM 7/16" FOR SHINGLE ROOF AND 1/2" FOR TILE ROOF.
7. NAILING FOR PLYWOOD ROOFS AND WALL SHEATHING SHALL BE 8D RING SHANK @ 4" O.C. @ PANEL EDGES, AND 6" O.C. INTERMEDIATE, FOR 1/2" SHEATHING OR LESS. NAILING FOR STRUCTURALLY APPROVED ARCHITECTURAL WALL PANELS (1/4"+) SHALL BE 6D COMMON @ 4" O/C AT PANEL EDGES, AND 6" O/C INTERMEDIATE.
8. ALL FLOORING MATERIAL TO BE 3/4" T&G PLYWOOD, NAILED AND GLUED TO FLOOR JOISTS. FLOOR NAIL WITH 10d NAILS AT 3" O/C AT PANEL EDGES, 6" O/C IN THE FIELD. STAGGER NAILS AT 2" O/C AT BUTT ENDS OF PLYWOOD SHEATHING.
9. INSTALL BRIDGING IN ALL (2X) FLOOR OR ROOF JOISTS AT 8'-0" MAXIMUM. INSTALL BLOCKING IN ALL BEARING WALLS AND PARTITIONS OVER 9'-0" @ MID-HEIGHT. BRACE GABLE END WALLS AT 4'0" O/C WHERE WALL FRAMING IS NOT CONTINUOUS FROM FOUNDATION TO ROOF, OR AS SHOWN ON DRAWINGS.
10. ALL NAILING AND BOLTING SHALL COMPLY WITH AMERICAN INSTITUTE OF TIMBER CONSTRUCTION REQUIREMENTS. ALL NAILS EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED.
11. ALL CONNECTION HARDWARE SHALL BE GALVANIZED AND SUPPLIED BY SIMPSON STRONGTIE CO., OR EQUIVALENT. SUBMIT CUT SHEETS FOR ALL CONNECTION HARDWARE TO CONTRACTOR FOR APPROVAL. ALL NAIL HOLES SHALL BE FILLED OR AS PRESCRIBED BY THE MANUFACTURER.
12. PROVIDE A SINGLE PLATE AT THE BOTTOM AND DOUBLE PLATE AT THE TOP OF ALL LOAD BEARING STUD WALLS. STAGGER END JOINTS IN DOUBLE PLATES AT LEAST 4'-0" PER DETAIL. 2 X 4 SILL PLATES FOR BEARING WALLS SHALL BE BOLTED TO FOUNDATION AS PER BEARING WALL DETAIL.
13. LOAD BEARING STUDS SHALL BE DOUBLED AT ALL ANGLES AND AROUND ALL OPENINGS, AND AT STRUCTURALLY APPROVED ARCHITECTURAL WALL PANEL JOINTS. STUDS SHALL BE TRIPLED AT ALL CORNERS.
14. WOOD LINTELS OVER OPENINGS SHALL BE DOUBLED 2x12 HEADERS UNLESS NOTED OTHERWISE ON PLANS, WITH CONTINUOUS 1/2" PLYWOOD FILLER CUT TO FULL DEPTH OF BEAM BETWEEN 2x MEMBERS.

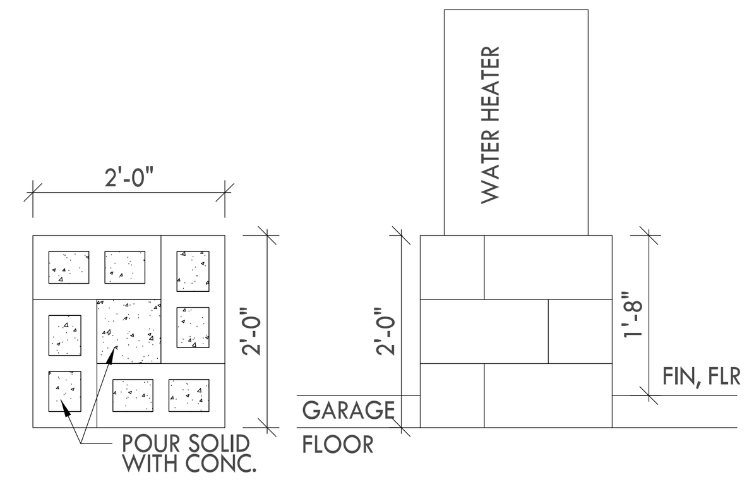
MEMBER SIZE MAXIMUM SPAN (SYP #1)
   A.2 X 4 6 FT.
   B. 2 X 6 8 FT.
   C.2 X 8 10 FT.
   D. 2 X 10 12 FT.
   E. 2 X 12 14 FT.
      a)NOTE 1: RAFTERS MUST BE BRACED LATERALLY BY A CONTINUOUS NAILING OF SHEATHING OR BRACED AT 24" O/C, WITH MINIMUM 1X4.
      b)NOTE 2: RAFTER SPACING NOT TO EXCEED 24" O/C.
      c) NOTE 3: RIDGE BOARDS TO BE ONE SIZE LARGER THAN RAFTER UNLESS OTHERWISE NOTED ON PLANS.
      d)NOTE 4: CONNECTOR SCHEDULE
         (1) SIMPSON MTS20 (OR EQUAL) BETWEEN CAT BLOCKING AND ROOF TRUSSES.
         (2) SIMPSON H5 (OR EQUAL) BETWEEN RAFTER TAILS TO CAT BLOCKING.
         (3) SIMPSON H5 (OR EQUAL) BETWEEN THE RAFTERS AND RIDGE BOARD.
         (4) SIMPSON CS20 AT ENDS OF RIDGE BOARD, OR SIMPSON JOIST HANGER WHERE APPLICABLE.

VI. PRE-ENGINEERED WOOD TRUSSES

1. THIS SECTION DEFINES PRE-ENGINEERED, PREFABRICATED, METAL PLATE CONNECTED WOOD ROOF AND FLOOR TRUSSES AS "WOOD TRUSSES".
2. TRUSS LAYOUTS SHOWN ON PLANS ARE SCHEMATIC ONLY. TRUSS MANUFACTURER AND/OR ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN AND SPACING OF ALL TRUSSES AND SHALL SUBMIT SHOP DRAWINGS TO THE BUILDER FOR APPROVAL.
3. THE WOOD TRUSS MANUFACTURER MUST PARTICIPATE IN A CODE APPROVED THIRD PARTY QUALITY ASSURANCE PROGRAM SUCH AS THE TRUSS PLATE INSTITUTE'S "QUALITY CONTROL INSPECTION PROGRAM" OR EQUIVALENT.
4. WOOD TRUSS MEMBERS AND CONNECTIONS SHALL BE DESIGNED FOR ALL LOADS SHOWN ON THE CONTRACT DOCUMENTS INCLUDING: LIVE, DEAD, AND CONCENTRATED LOADS, PLUS WIND LOADS.
5. REFER TO THE FLOOR PLAN AND OTHER STRUCTURAL DETAIL SHEETS FOR IMPORTANT INFORMATION NOT SPECIFICALLY ADDRESSED BY THE TRUSS FRAMING LAYOUT SUCH AS BEARING WALL HEIGHTS AND CEILING VAULT DETAILS.
6. WOOD TRUSS DESIGN SHOP DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING INFORMATION:
   A.SPAN LENGTH, OVERHANG AND EAVE DIMENSIONS, SLOPE AND SPACING OF THE WOOD TRUSSES.
   B. ALL DESIGN LOADS AND THEIR POINTS OF APPLICATION, VALLEY AND CONVENTIONAL FRAMING MUST BE CONSIDERED.
   C.ADJUSTMENTS TO ALLOWABLE VALUES.
   D.REACTIVATE FORCES AND THEIR LOCATIONS.
   E. BEARING TYPE AND MINIMUM BEARING LENGTH.
   F. DEFLECTIONS.
   G. METAL CONNECTOR PLATE TYPE, GAUGE, SIZE, AND LOCATION.
   H.LUMBER SIZE, SPECIES, GRADE AND MOISTURE CONTENT.
   I. LOCATION AND CONNECTION DESIGN OF REQUIRED CONTINUOUS LATERAL BRACING.
   J. NET UPLIFT LOADS BASED ON ACTUAL BUILDING DEAD LOAD.
   K. WEB REINFORCEMENT DETAILS FOR GABLE END TRUSSES.
   L. VALLEY SETS FOR OVER-BUILD CONDITIONS.
7. LIMIT DEFLECTIONS FOR LIVE LOAD TO SPAN/360 (ROOF), SPAN/480 (FLOOR), AND LIMIT TOTAL LOAD DEFLECTIONS TO SPAN/240 (ROOF), SPAN/360 (FLOOR) UNLESS SPECIFICALLY NOTED OTHERWISE.
8. FIRE RETARDANT WOOD IS NOT ALLOWABLE FOR USE AS TRUSS CHORDS OR WEBS.
9. WOOD TRUSSES SHALL BE DESIGNED SO THAT MINIMAL HORIZONTAL REACTIONS ARE IMPOSED ON THE SUPPORTING STRUCTURE UNDER VERTICAL LOADS. NO SLIP CONNECTIONS ARE ALLOWED UNLESS OTHERWISE NOTED. CONTACT CONTRACTOR AS REQUIRED.
10. WOOD TRUSSES MUST BE CHECKED FOR WIND. WIND VELOCITY, DESIGN VELOCITY PRESSURES, AND MEAN ROOF HEIGHT MUST BE SHOWN ON THE SUBMITTED SHOP DRAWINGS.
11. CONTINUOUS BOTTOM CHORD LATERAL BRACING IS REQUIRED AT A MINIMUM SPACING OF 10' O.C. UNLESS NOTED OTHERWISE. BOTTOM CHORD BRACING IS CONTINUOUS FROM ONE END OF THE BUILDING TO THE OTHER END. OVERLAP CONTINUOUS BRACING AT LEAST ONE TRUSS SPACE. USE A MINIMUM OF 2 X 4 (ROOF), 2X6 (FLOOR) GRADE MARKED LUMBER AT LEAST 10' LONG, WITH 2-16d NAILS AT INTERMEDIATE AND 3-16d NAILS AT END CONNECTIONS.
12. CROSS BRACING IS REQUIRED AT MINIMUM 10' O.C. UNLESS NOTED OTHERWISE. LOCATE CROSS BRACING AT OR NEAR THE BOTTOM CHORD BRACING. INSTALL CROSS BRACING AT EACH END AND AT 20' O.C. ALONG THE LENGTH OF THE LATERAL BRACING. CROSS BRACING IS ACCOMPLISHED BY ATTACHING DIAGONAL WEB BRACING TO OPPOSITE SIDES OF THE SAME GROUP OF SIMILAR WEB MEMBERS. SLOPE CROSS BRACING IN OPPOSITE DIRECTIONS AT APPROXIMATELY 45 DEGREES FORMING A CROSS "X". USE A MINIMUM OF 2x4 GRADE MARKED LUMBER WITH AT LEAST 3-16d NAILS AT EACH CONNECTION.
13. TRUSS ERECTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING OF TRUSS SYSTEM DURING CONSTRUCTION.
14. HANDLING, INSTALLATION, AND BRACING OF WOOD TRUSSES SHALL BE IN ACCORDANCE WITH "HIB-91", PUBLISHED BY THE TRUSS PLATE INSTITUTE.
15. ALL WOOD TRUSSES SHALL BE FASTENED TO THEIR SUPPORTS WITH APPROVED HURRICANE ANCHORS, RATED TO CARRY UPLIFT LOADS SPECIFIED BY TRUSS MANUFACTURER.
16. ALL CONNECTION HARDWARE SHALL BE GALVANIZED AND SUPPLIED BY SIMPSON STRONG-TIE, OR APPROVED EQUIVALENT MANUFACTURER. ALL NAIL HOLES SHOULD BE FILLED, OR AS PRESCRIBED BY THE MANUFACTURER.
17. TRUSSES ARE TO BE DESIGNED TO ALLOW FOR THE PROPER ROUTING OF A/C DUCT WORK AND PLUMBING. CHASES SHALL NOT BE BLOCKED BY WOOD TRUSSES.
18. PILING OF PLYWOOD ON WOOD TRUSSES IS NOT ALLOWED.
19. INSTALLATION OF BROKEN, DAMAGED, WARPED, OR IMPROPERLY REPAIRED WOOD TRUSSES IS NOT ALLOWED.
20. IMPROPER OR UNAUTHORIZED FIELD ALTERATIONS OF WOOD TRUSSES IS NOT ALLOWED.
21. GABLE ENDWALL TRUSSES MUST TRANSFER LATERAL LOADS TO THE SHEAR WALLS AND/OR THE ROOF DIAPHRAGM.
22. WOOD TRUSSES THAT DO NOT MEET INTERIOR LOAD BEARING WALLS MUST BE SHIMMED. DO NOT PULL WOOD TRUSSES DOWN TO INTERIOR BEARINGS.
23. SUBMITTALS: ALL SUBMITTALS SHALL BEAR THE EMBOSSED SEAL OF A LICENSED STRUCTURAL ENGINEER IN THE STATE OF FLORIDA AND SHALL BE SUBMITTED TO CONTRACTOR FOR REVIEW PRIOR TO WOOD TRUSS FABRICATION.
   A.SUBMIT SEALED WOOD TRUSS DESIGN CALCULATIONS AND PROFILES FOR EACH TYPE OF TRUSS WITH PERMANENT BRIDGING REQUIREMENTS.
   B. SUBMIT WOOD TRUSS ERECTION PLAN, INCLUDING CONNECTION DETAILS AND UPLIFT ANCHORS.
   C.SUBMIT WOOD TRUSS TEMPORARY ERECTION BRACING PLAN.
   D.MAINTAIN COPY OF SUBMITTAL ON JOBSITE.



A / SD1 WOOD STRUCTURAL PANEL - OPENING PROTECTION OPTION
N.T.S.



PROTECTION OF APPLIANCES IN RESIDENTIAL GARAGES

A: 24"x24"x24"H BLOCK WATER HEATER STAND POURED SOILD W/ CONC. (SEE DTL)

FOR ALL OTHERS

B: MINIMUM 3" DIAMETER SCH 40 STEEL PIPE, 2 FT. BELOW CONCRETE SLAB AND 3 FEET ABOVE FINISHED FLOOR,

B / SD1 WATER HEATER STAND DETAIL
NOT TO SCALE

GENERAL NOTES

ALL MANUFACTURED PRODUCTS SUCH AS ROOFING, WINDOWS, DOORS, ETC. ARE SHOWN HEREIN FOR ILLUSTRATION PURPOSES ONLY. THE INFORMATION SHOWN IS THE RESPONSIBILITY OF THE MANUFACTURER. THE MANUFACTURER IS RESPONSIBLE FOR THE VALIDITY OF THE COMPONENTS PROVIDED. ATTACHMENT INFORMATION GIVEN BY THE MANUFACTURER IS PROVIDED HEREIN. CONTRACTOR, AS PROJECT COORDINATOR, SHALL BE RESPONSIBLE FOR INSURING THAT THE APPROPRIATE PRODUCT/COMPONENT IS USED AND THAT IT HAS BEEN INSTALLED PER MANUFACTURER'S SPECIFICATIONS SUCH THAT IT WILL WITHSTAND THE COMPONENTS AND CLADDING PRESSURES REQUIRED BY THE SEALED PLANS.

PRE-CAST AND PRE-STRESSED CONCRETE COMPONENTS SHALL BE USED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS. PRE-CAST LINTELS HAVE BEEN REVIEWED AND PLACED BASED ON DESIGN ALLOWABLE LOAD INFORMATION PROVIDED BY CAST CRETE. THEREFORE, CAST CRETE IS A DELEGATED ENGINEER FOR THIS PROJECT. ENGINEER OF RECORD MUST APPROVE IN WRITING ANY CHANGE IN LINTEL MANUFACTURER. ALL OTHER STRUCTURAL PRE-CAST COMPONENT MANUFACTURERS MUST SUBMIT DESIGN LOAD INFORMATION TO ENGINEER OF RECORD FOR APPROVAL. ENGINEER OF RECORD RESERVES THE RIGHT TO MAKE ANY CHANGES AFTER SUCH INFORMATION HAS BEEN PROVIDED FOR REVIEW. CONTRACTOR, AS PROJECT COORDINATOR, SHALL BE RESPONSIBLE FOR INSURING INFORMATION REQUESTED ABOVE HAS BEEN SUBMITTED TO ENGINEER OF RECORD IN A TIMELY MANNER WHEN AVAILABLE.

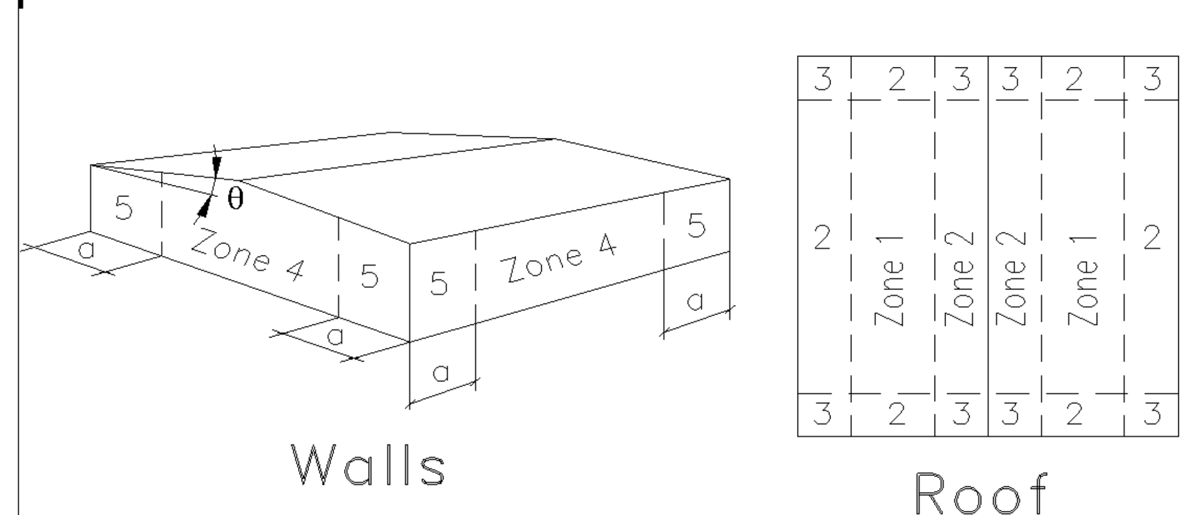
UPON REVIEW, ENGINEER OF RECORD WILL PROVIDE A REVIEW LETTER INDICATING ANY CHANGE IN STRAPPING OR SUPPORT BASED ON THAT REVIEW. CONSTRUCTION COMMENCING PRIOR TO ENGINEER'S REVIEW IS SUBJECT TO MODIFICATION BASED ON REVIEW LETTER.

EXTERIOR CEMENTITIOUS FINISH
CEMENTITIOUS FINISH OVER FRAME TO BE A MINIMUM 7/8" IN THICKNESS CEMENTITIOUS FINISH OVER CMU TO BE A MINIMUM 5/8" IN THICKNESS TO MEET ASTM C926

WIND LOADS

Florida Building Code 5th Edition (2014)
AND ASCE 7-10 METHODS

ULTIMATE WIND SPEED (MPH)	150	
EXPOSURE CATEGORY	B	
BUILDING RISK CATEGORY	II	
ROOF SLOPE	Roof > 0 to 7 degrees	
INTERNAL PRESSURE COEFFICIENT	ENCLOSED	0.18
TOPOGRAPHICAL FACTOR	FLAT	1.0
MAXIMUM BUILDING HEIGHT	35	FT



WIDTH OF EDGE STRIPS (a)	5	FT	OPENING PROTECTION REQUIRED

COMPONENT & CLADDING DESIGN PRESSURE (PSF)

Area of C&C (SF)	ZONE 1		ZONE 2		ZONE 3		ZONE 4		ZONE 5	
	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative
10	17.3	-42.5	17.3	-71.3	17.3	-107.3	42.5	-46.1	42.5	-56.9
20	16.2	-41.4	16.2	-63.7	16.2	-88.9	40.6	-44.2	40.6	-53.0
50	14.8	-40.0	14.8	-53.7	14.8	-64.6	38.0	-41.7	38.0	-48.0
100	13.7	-38.9	13.7	-46.1	13.7	-46.1	36.1	-39.7	36.1	-44.2

WINDOWS AND DOORS DESIGN PRESSURE (PSF) BASED ON Vasd

Area (SF) or description	ZONE 1		ZONE 2		ZONE 3		ZONE 4		ZONE 5	
	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative
10	16.0	-25.5	16.0	-42.8	16.0	-64.4	25.5	-27.7	25.5	-34.1
20	16.0	-24.8	16.0	-38.2	16.0	-53.4	24.4	-26.5	24.4	-31.8
50	16.0	-24.0	16.0	-32.2	16.0	-38.7	22.8	-25.0	22.8	-28.8
100	16.0	-23.3	16.0	-27.7	16.0	-27.7	21.7	-23.8	21.7	-26.5
Garage Doors							22.4	-25.3	22.4	-25.3

TYPICAL NAILING SCHEDULE

Ledger strip	16d common	3 at each joist
Sole plate to joist or blocking, face nail	16d common	16" O.C.
Top of sole plate to stud, and nailed	16d common	2
Stud to sole plate, toe nail	8d common	4
Doubled studs, face nail	10d common	24" O.C.
Doubled top plates, face nail	10d common	16" along each edge
Continuous header to stud, toe nail	8d common	3
1X8 sheathing or less to each bearing, face nail	8d common	2
Over 1X8 sheathing to each bearing, face nail	8d common	3
Build-up corner studs	16d common	24" O.C.
Build-up griders and beams up to three members	20d common	32" O.C. at top and bottom and staggered 2 ends at each splice
1/2" Gypsum Sheathing	11 ga 1-1/2" 7/16" head	4"O.C. at edges 8" o.c. at other bearing.
5/8" Gypsum Sheathing	11 ga 1-3/4" 7/16" head	4"O.C. at edges 8" o.c. at other bearing.
Gypsum Wallboard 1/2"	1-3/8" drywall nail	7"O.C. on ceilings 8"O.C. on walls
5/8"	1-1/2" drywall nail	7"O.C. on ceilings 8"O.C. on walls
Hardboard Lap Siding, Direct to Studs	8d corrosion resistant with minimum shank dia. of 0.0990 inch and minimum head dia. of 0.240 inch	16" O.C. at top and bottom edges
Hardboard Lap Siding, over sheathing	10d corrosion resistant with minimum shank dia. of 0.0990 inch and minimum head dia. of 0.240 inch	16" O.C. at top and bottom edges
Hardboard Panel siding, Direct to Studs	6d corrosion resistant with minimum shank dia. of 0.0920 inch and minimum head dia. of 0.225 inch	6" O.C. at edges 12" O.C. at Intermediate supports
Hardboard Panel siding, Over to Sheathing	8d corrosion resistant with minimum shank dia. of 0.0920 inch and minimum head dia. of 0.225 inch	6" O.C. at edges 12" O.C. at Intermediate supports

CONNECTOR PRODUCT APPROVALS

APPLICATION	SIMPSON CONNECTOR	FL APPROVAL No.
CAPS AND BASES	CC, ECC, PC, EPC	FL 10860
	ABU	FL 10860
CONCRETE / MASONRY CONNECTORS	HU, HUC	FL 10655
	HGT, MBHA	FL 10866
	HD, HDQ8, HHDQ	FL 10441
	DETAL, FGTR, HETA, HHETA, HM, HTSM, HGAM, HGUM, LGUM, LTA, META, MSTAM, MSTCM, MTSM	FL 11473
	HGA10, LGT, MGT, MSTC, VGT	FL 11470
	HTT, LTT	FL 11496
HANGERS	LRU, LSSU, LSU, THA	FL 10447
	HHUS, HSUL, HSUR, HU, HUC, IUS,IUT, LU, LUS, MU,SUL, SUR, U	FL 10531 / FL 10655
	HGU, HGUQ, HGUS, HHGU, HHUS, HUCQ, HUS, LCU, LUS, MGU, MSCPT, THA, THGB, THGQ, THGW, THJU	FL 10531 / FL 11468
	B, BA, HB, LBV	FL 10667
	EG, GB, GLS, GLST, GLT, GLTV, HGB, HGLS, HGLT, HGLTV, HHB, HHBD, HIT, HW, HWI, HWU, ITS,ITT, MEG, MIT, MSC, W, WI, WNP, WNPU, WP, WPI, WPU,	FL 10667
STRAPS AND TIES	A, FC, GA, H, HGA, HH, L, LS, LPT, Z	FL 10446
	DSP, FTA, H, HGT, HTS, LFTA, LTS, MTS, RSP, RST, SP, SPH, SSP	FL 10456
	CMST, CS, FHA, HST, LSTA, LSTI, MST, MSTA, MSTC, MSTI, ST	FL 10852

PINELLAS COUNTY HOUSING AUTHORITY — PROGRESSIVE PINELLAS

RESIDENCE RENOVATION

Pinellas County Housing Authority

12065 134th Pl N
LARGO, FL 33778

TERMITE NOTES

TERMITE PROTECTION SHALL BE PROVIDED BY REGISTERED TERMITICIDES, INCLUDING SOIL APPLIED PESTICIDES, BAITING R318.1 TERMITE PROTECTION. SYSTEMS AND PESTICIDES APPLIED TO WOOD, OR OTHER APPROVED METHODS OF TERMITE PROTECTION LABELED FOR USE AS A PREVENTATIVE TREATMENT TO NEW CONSTRUCTION. SEE SECTION 202, REGISTERED TERMITICIDE. UPON COMPLETION OF THE APPLICATION OF THE TERMITE PROTECTIVE TREATMENT, A CERTIFICATE OF COMPLIANCE SHALL BE ISSUED TO THE BUILDING DEPARTMENT BY THE LICENSED PEST CONTROL COMPANY THAT CONTAINS THE FOLLOWING THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT IS IN ACCORDANCE " STATEMENT: " WITH RULES AND LAWS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, THE INITIAL CHEMICAL SOIL TREATMENT INSIDE THE FOUNDATION R318.1.1 PERIMETER SHALL BE DONE AFTER ALL EXCAVATION, BACKFILLING AND COMPACTION IS COMPLETE. IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, SOIL AREA DISTURBED AFTER INITIAL CHEMICAL SOIL TREATMENT SHALL R318.1.2 BE RETREATED WITH A CHEMICAL SOIL TREATMENT, INCLUDING SPACES BOXED OR FORMED. IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, SPACE IN CONCRETE FLOORS BOXED OUT OR FORMED FOR THE R318.1.3 SUBSEQUENT INSTALLATION OF PLUMBING TRAPS, DRAINS OR ANY OTHER PURPOSE SHALL BE CREATED BY USING PLASTIC OR METAL PERMANENTLY PLACED FORMS OF SUFFICIENT DEPTH TO ELIMINATE ANY PLANNED SOIL DISTURBANCE AFTER INITIAL CHEMICAL SOIL TREATMENT. IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, CHEMICALLY TREATED SOIL SHALL BE PROTECTED WITH A MINIMUM 6 R318.1.4 MIL VAPOR RETARDER TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT, RETREATMENT IS REQUIRED. ANY WORK, INCLUDING PLACEMENT OF REINFORCING STEEL, DONE AFTER CHEMICAL TREATMENT UNTIL THE CONCRETE FLOOR IS POURED, SHALL BE DONE IN SUCH MANNER AS TO AVOID PENETRATING OR DISTURBING TREATED SOIL. IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, CONCRETE OVERPOUR OR MORTAR ACCUMULATED ALONG THE EXTERIOR R318.1.5 FOUNDATION PERIMETER SHALL BE REMOVED PRIOR TO EXTERIOR CHEMICAL SOIL TREATMENT, TO ENHANCE VERTICAL PENETRATION OF THE CHEMICALS. IF SOIL TREATMENT IS USED FOR SUBTERRANEAN TERMITE PREVENTION, CHEMICAL SOIL TREATMENTS SHALL ALSO BE APPLIED UNDER ALL R318.1.6 EXTERIOR CONCRETE OR GRADE WITHIN 1 FOOT (305 MM) OF THE PRIMARY STRUCTURE SIDEWALLS. ALSO, A VERTICAL CHEMICAL BARRIER SHALL BE APPLIED PROMPTLY AFTER CONSTRUCTION IS COMPLETED, INCLUDING INITIAL LANDSCAPING AND IRRIGATION/SPRINKLER INSTALLATION. ANY SOIL DISTURBED AFTER THE CHEMICAL VERTICAL BARRIER IS APPLIED SHALL BE PROMPTLY RETREATED. IF A REGISTERED TERMITICIDE FORMULATED AND REGISTERED AS A BAIT SYSTEM IS USED

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DATE:
LUIS C. CORREA, FL P.E., S.I. #49018

John J. McKenna
Architect P.A.
600 N. WILLOW ST. SUITE 300
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PHONE : 813.258.5559
FLORIDA LICENSE - AA C001774
E-MAIL : mckenna42@verizon.net

Sheet Name :	STRUCTURAL SPECIFICATIONS
Phase :	PERMIT SET
Revision :	
Date :	3.3.2017
Drawn by :	DC
Checked by :	LC
Plot Scale :	
Project Number :	1659

S-1.0

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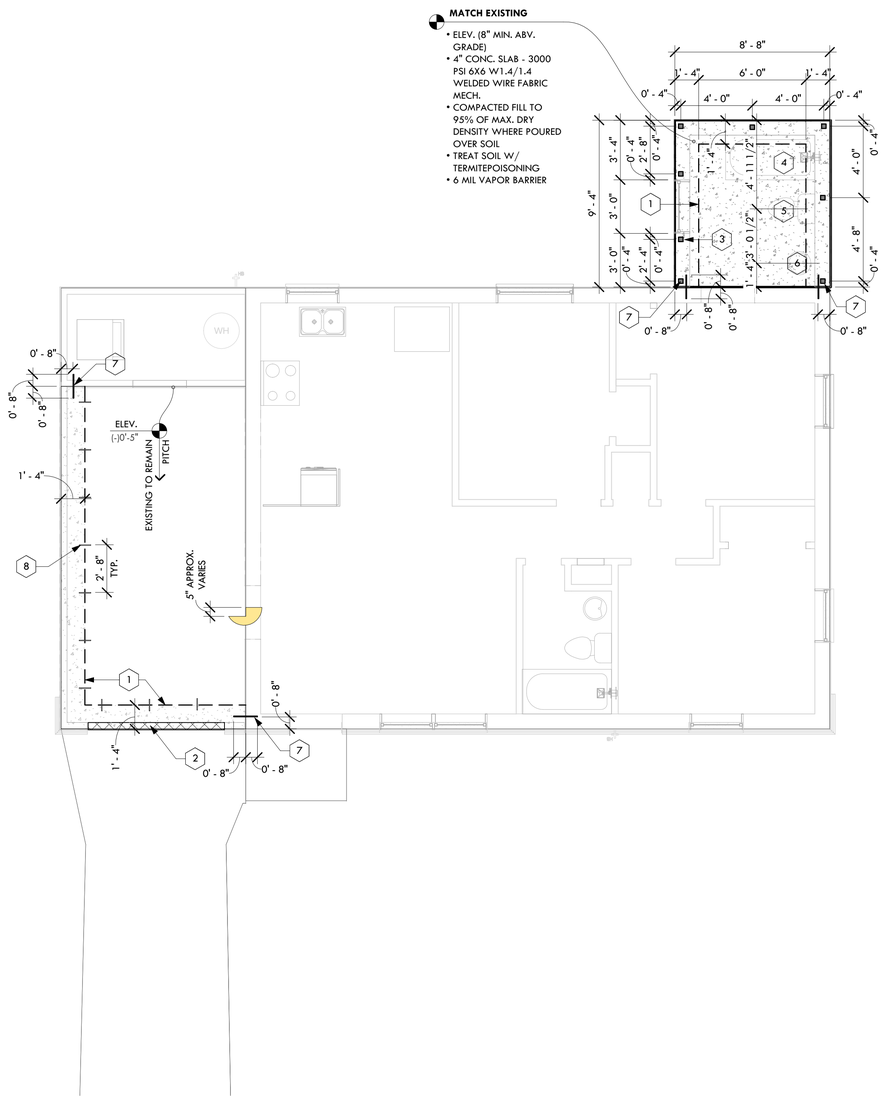

FOUNDATION FLOOR PLAN

1 1/4" = 1'-0"

0 2' 4' 8'

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

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PINELLAS COUNTY HOUSING AUTHORITY

PROGRESSIVE PINELLAS

RESIDENCE RENOVATION

Pinellas County Housing Authority

12065 134th Pl N
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FOUNDATION LEGEND

- INDICATES AREA OF NEW WORK
- FILLED CELL W/ (2) #5 VERTICAL
- FILLED CELL W/ (1) #5 VERTICAL
- FILLED CELL W/ (1) #5 VERT. IN PRIVACY WALL (6'-0" HIGH)
- FILLED CELL W/ (1) #5 TURNED 2'-0" INTO SLAB
- LOCATION OF REQUIRED REINF. CELL IN EXISTING WALL
- FILLED CELL TO ONE COURSE ABV PIPE (NO REBAR)
- (2) 24" #5 REBAR PLACED DIAGONAL AT CORNERS

CONTROL JOINTS NOTE

BUILDING SLABS SHALL HAVE CONTROL JOINTS IN ACCORDANCE W/ ACI224-3R

SPECIAL NOTE RADON

ALL SLABS AND SLAB PENETRATIONS ARE TO BE SEALED TO PREVENT THE INTRUSION OF RADON GAS.

PROPOSED NOTES "○"

1. CONCRETE FOOTINGS - SEE STRUCTURAL DETAILS
2. 3/4"DPX13" WIDE RECESS (VERIFY DP W/GARAGE DOOR MANUFACTURER)
3. #5 BAR IN FILLED CELL (TYP)
4. SHOWER TUB: PRE-PLUMB FOR TUB-VERIFY TUB DRAIN LOCATION WITH MANUF. SPECS
5. WATER CLOSET: VERIFY WATER PRESSURE FOR NEW BATHROOM PRIOR TO POURING SLAB
6. HANK SINK: VERIFY WATER PRESSURE FOR NEW BATHROOM PRIOR TO POURING SLAB
7. FOOTING CONNECTION, SEE FOUNDATION DETAILS
8. EMBED 1 # 5 REBAR INTO EXISTING SLAB @ 32" O.C.

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DATE:

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Phase :	**PERMIT SET**
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Drawn by :	DC
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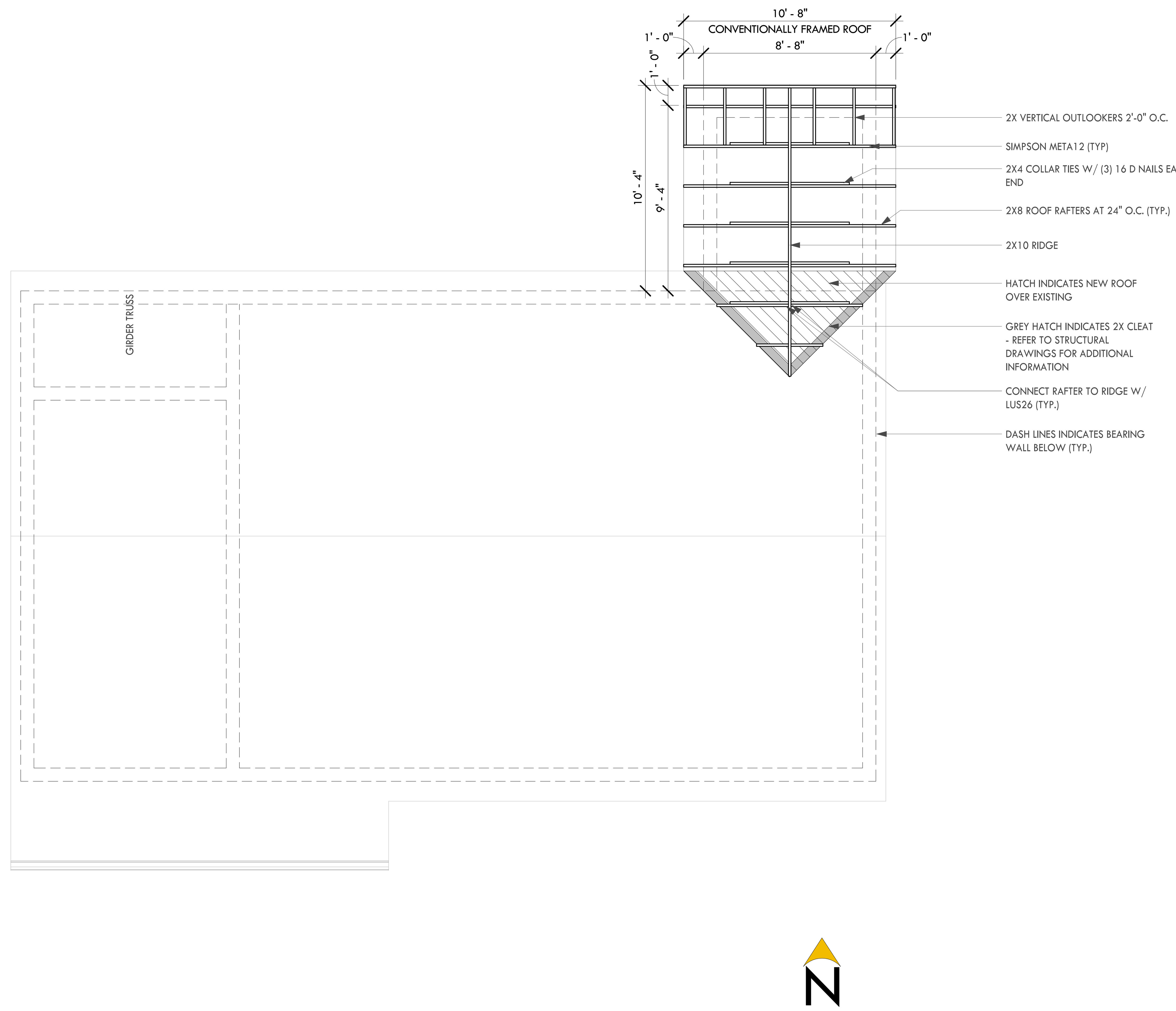

ROOF FRAMING PLAN
1 1/4" = 1'-0"

0 2' 4' 8'
SCALE: 1/4" = 1'-0"

FRAMING NOTES

ALL PRE-ENGINEERED WOOD PRODUCTS SHALL BE VERIFIED BY TRUSS MANUFACTURER. TRUSS MANUFACTURER SHALL HAVE THE AUTHORITY TO MAKE SUBSTITUTIONS FOR PRODUCTS SPECIFIED ON THE PLANS DUE TO AVAILABILITY OR ECONOMICS. CHANGES SPECIFIED BY THE TRUSS MANUFACTURER SHALL CONTROL. CHANGES MADE AFTER TRUSS ENGINEERING HAS BEEN PROVIDED TO ENGINEER OF RECORD, MUST BE APPROVED BY THE ENGINEER OF RECORD. FRAMING PLAN IS DIAGRAMMATIC IN NATURE AND IS PROVIDED FOR ILLUSTRATION PURPOSES ONLY. TRUSS MANUFACTURER TO PROVIDE SEPARATE LAYOUT AND TRUSS COMPONENT DESIGN SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER. ALL PRE-ENGINEERED WOOD PRODUCTS ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER. THE TRUSS ENGINEER IS A DELEGATED ENGINEER FOR THIS PROJECT, AND AS SUCH, IS RESPONSIBLE FOR THE VALIDITY OF THE COMPONENTS PROVIDED. FRAMING LAYOUTS SHOWN MAY BE CHANGED BY THE TRUSS MANUFACTURER. THE DELEGATED ENGINEER IS RESPONSIBLE FOR PROVIDING A FINAL SEALED SET OF ALL CALCULATIONS AND LAYOUTS FOR THIS PROJECT TO THE ENGINEER OF RECORD FOR REVIEW PRIOR TO MANUFACTURE OF SAID COMPONENTS. ENGINEER OF RECORD HAS NOT REVIEWED THE PRE-ENGINEERED TRUSS MANUFACTURER'S COMPONENTS AT THIS TIME AND RESERVES THE RIGHT TO MAKE ANY CHANGES AFTER SUCH INFORMATION HAS BEEN PROVIDED FOR REVIEW. CONTRACTOR, AS PROJECT COORDINATOR, SHALL BE RESPONSIBLE FOR INSURING INFORMATION REQUESTED ABOVE HAS BEEN SUBMITTED TO ENGINEER OF RECORD IN A TIMELY MANNER WHEN AVAILABLE. ALL PRE-ENGINEERED TRUSSES TO BE DESIGNED USING THE MOST RECENT TPI CRITERIA. TRUSSES TO BE HANDLED AND INSTALLED USING MOST RECENT BCSI RECOMMENDATIONS. TEMPORARY AND PERMANENT BRACING SHALL BE PER MOST RECENT BCSI RECOMMENDATIONS UNLESS NOTED OTHERWISE, OR MORE STRINGENT CODE REQUIREMENTS APPLY. TRUSS ENGINEER IS RESPONSIBLE FOR INDICATING ALL TRUSS TO TRUSS CONNECTORS. ALL COMPONENTS TO BE DESIGNED FOR BOTH GRAVITY AND UPLIFT LOAD CASES, INCLUDING BEAM COMPONENTS. UPON REVIEW, ENGINEER OF RECORD WILL PROVIDE A REVIEW LETTER INDICATING ANY CHANGE IN STRAPPING OR SUPPORT BASED ON THAT REVIEW. CONSTRUCTION COMMENCING PRIOR TO ENGINEER'S REVIEW IS SUBJECT TO MODIFICATION BASED ON REVIEW LETTER.

PINELLAS COUNTY HOUSING AUTHORITY
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TRUSS CONNECTOR NOTES

TYPICAL TRUSS CONNECTORS:
- TO MASONRY WALLS: SIMPSON HETA20
- TO FRAME WALLS: SIMPSON H10AOR MTS16

TYPICAL GIRDER TRUSS CONNECTOR:
- TO MASONRY WALLS: DOUBLE SIMPSON HETA20
- TO FRAME WALLS:
  a. SIMPSON (2) HTS30 OVER (3) PLY 2X STUD COLUMN W/ SIMPSON HTT5 @ BOTTOM TO MASONRY WALL OR FOUNDATION BELOW
  b. SIMPSON (2) HTS30 OVER (3) PLY 2X STUD COLUMN W/SIMPSON MST14B@ BOTTOM TO GIRDER TRUSS OR WOOD BEAM BELOW.

-THE PREVIOUS CONNECTORS APPLY UNLESS OTHERWISE NOTED.
-SEE FLOOR PLAN, FOUNDATION PLAN AND SECTIONS FOR OTHER CONNECTORS.
-ROOF TRUSS LAYOUT TO BE DEVELOPED BY TRUSS MANUFACTURER.
-THE ENGINEER RESERVES THE RIGHT TO MAKE ANY CHANGES AFTER TRUSS INFORMATION IS SUPPLIED TO THE ENGINEER

TRUSS CONNECTOR NOTES

TYPICAL TRUSS CONNECTORS:
- TO MASONRY WALLS: SIMPSON HETA20
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-THE PREVIOUS CONNECTORS APPLY UNLESS OTHERWISE NOTED.
-SEE FLOOR PLAN, FOUNDATION PLAN AND SECTIONS FOR OTHER CONNECTORS.
-ROOF TRUSS LAYOUT TO BE DEVELOPED BY TRUSS MANUFACTURER.
-THE ENGINEER RESERVES THE RIGHT TO MAKE ANY CHANGES AFTER TRUSS INFORMATION IS SUPPLIED TO THE ENGINEER

ROOF TRUSSES NOTE

- ROOF FRAMING PLAN AND DIAGRAMMATIC TRUSS LAYOUT FOR REFERENCE ONLY.
- ALL ROOF TRUSSES TO BE PRE-ENGINEERED BY TRUSS MANUFACTURER
- TRUSS LAYOUT AND TRUSS SHOP DRAWINGS MUST BE REVIEWED AND APPROVED BY ENGINEER OF RECORD PRIOR TO CONSTRUCTION

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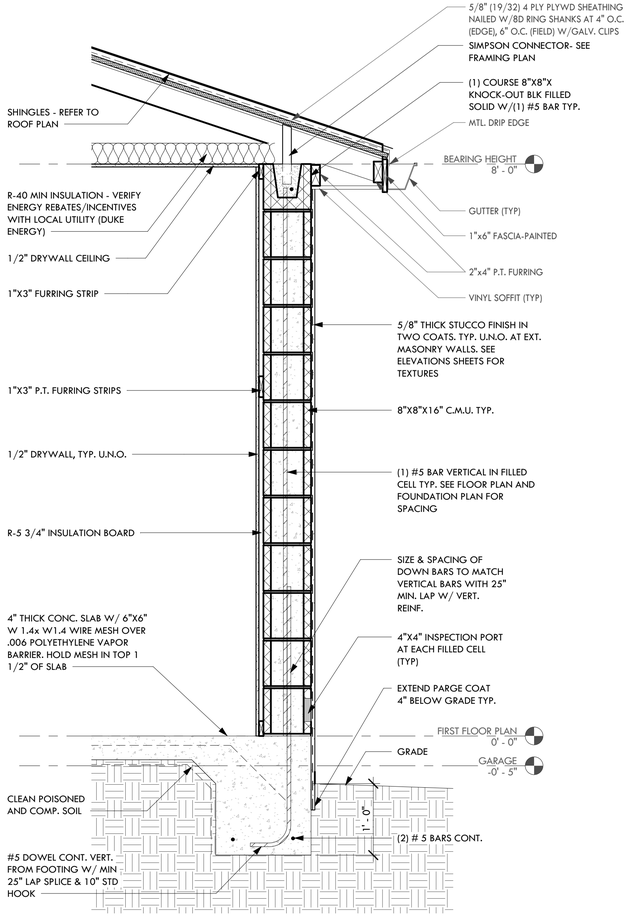
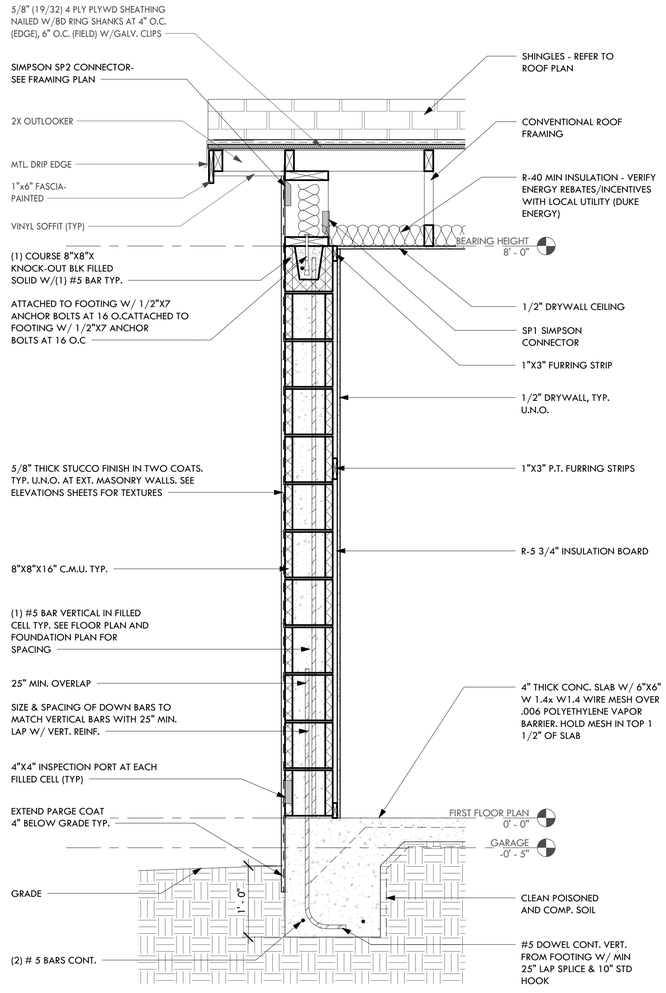
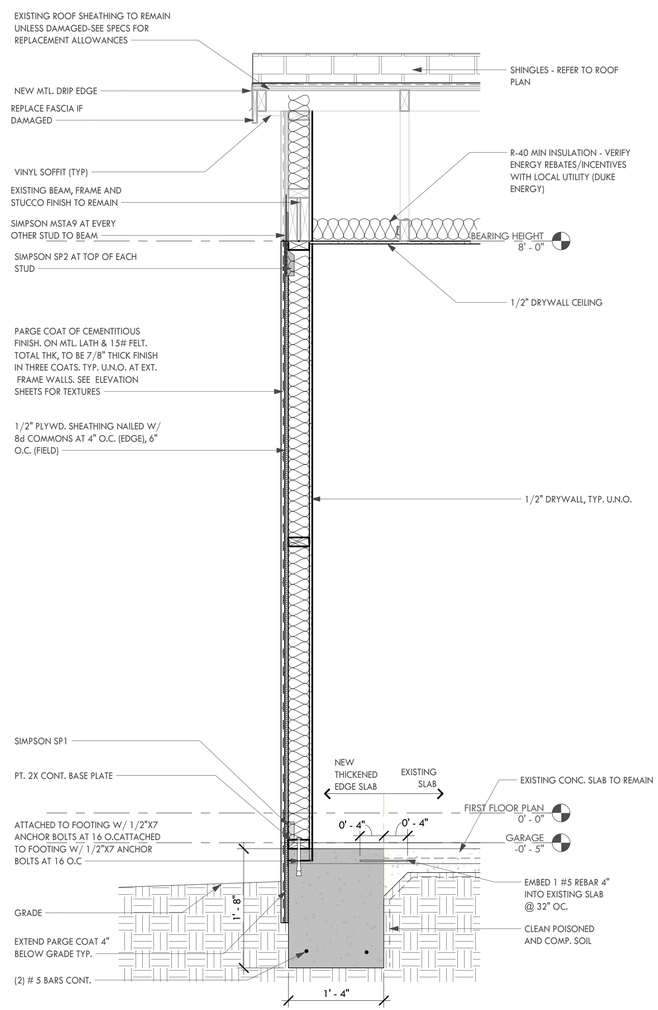


WALL SECTION
1 1" = 1'-0"
0 1/2' 1' 2'
SCALE: 1" = 1'-0"



WALL SECTION
2 1" = 1'-0"
0 1/2' 1' 2'
SCALE: 1" = 1'-0"



WALL SECTION
3 1" = 1'-0"
0 1/2' 1' 2'
SCALE: 1" = 1'-0"

2/28/2017 1:00:59 PM

PINELLAS COUNTY HOUSING AUTHORITY
PROGRESSIVE PINELLAS

RESIDENCE RENOVATION

Pinellas County Housing Authority

12065 134th Pl N
LARGO, FL 33778

WOOD PROTECTION NOTES

R317.1 PROTECTION FROM WOOD AND WOOD BASED PRODUCTS FROM DECAY SHALL BE PROVIDED IN THE FOLLOWING LOCATIONS ACCORDING WITH AWPA U1

1. WOOD JOISTS OR THE BOTTOM OF A WOOD STRUCTURAL FLOOR WHEN CLOSER THAN 18 INCHES OR WOOD GIRDERS WHEN CLOSER THAN 12 INCHES TO THE EXPOSED GROUND IN CRAWL SPACES OR UNEXCAVATED AREA LOCATED WITHIN THE PERIPHERY OF THE BUILDING FOUNDATION
2. ALL WOOD FRAMING MEMBERS THAT REST ON CONCRETE OR MASONRY EXTERIOR FOUNDATION WALLS AND ARE LESS THAN 8" FROM THE EXPOSED GROUND
3. SILLS AND SLEEPERS ON A CONCRETE OR MASONRY SLAB THAT IS IN DIRECT CONTACT WITH THE GROUND UNLESS SEPARATED FROM SUCH SLAB BY AN IMPREVIOUS MOISTURE BARRIER
4. THE ENDS OF WOOD GIRDERS ENTERING EXTERIOR MASONRY OR CONCRETE WALLS HAVING CLEARANCES OF LESS THAN 1/2 INCH ON TOPS, SIDES AND ENDS.
5. WOOD SIDING, SHEATHING AND WALL FRAMING ON THE EXTERIOR OF A BUILDING HAVING A CLEARANCE OF LESS THAN 6" FROM THE GROUND OR LESS THAN 2" MEASURED VERTICALLY FROM CONCRETE STEPS, PORCH SLABS, PATIO SLABS, AND SIMILAR HORIZONTAL SURFACES EXPOSED TO THE WEATHER
6. WOOD STRUCTURAL MEMBERS SUPPORTING MOISTURE-PERMEABLE FLOORS OR ROOFS THAT ARE EXPOSED TO THE WEATHER, SUCH AS CONCERETE OR MASONRY SLABS, UNLESS SEPARATED FROM SUCH FLOORS OR ROOFS BY AN IMPERVIOUS MOISTURE BARRIER.
7. WOOD FURRING STRIPS OR OTHER WOOD FRAMING MEMBERS ATTACHED DIRECTLY TO THE INTERIOR OF EXTERIOR MASONRY WALLS OR CONCRETE WALLS BELOW GRADE EXCEPT WHERE AN APPROVED VAPOR RETARDER IS APPLIED BETWEEN THE WALL AND THE FURRING STRIPS OR FRAMING MEMBERS.

INTEGRAL ENGINEERING, INC.
16704 Tobacco Road, Lutz, FL 33558
Phone: (813) 908-0402 | Fax: (813) 969-0286 | CA # 8253

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SIGNED AND SEALED FOR THE STRUCTURAL ELEMENTS LISTED IN THIS PORTION OF THIS DRAWING ONLY.

DATE:

LUIS C. CORREA, FL P.E., S.I. #49018

John J. McKenna Architect P.A.
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PHONE : 813.258.5559
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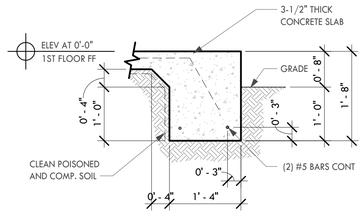
E-MAIL : mckenna42@verizon.net

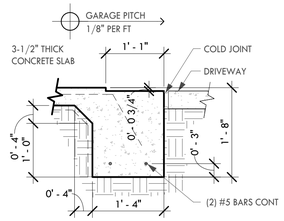
Sheet Name :	WALL SECTIONS
Phase :	**PERMIT SET**
Revision :	
Date :	3.3.2017
Drawn by :	DC
Checked by :	LC
Plot Scale :	
Project Number :	1659

S-3.0



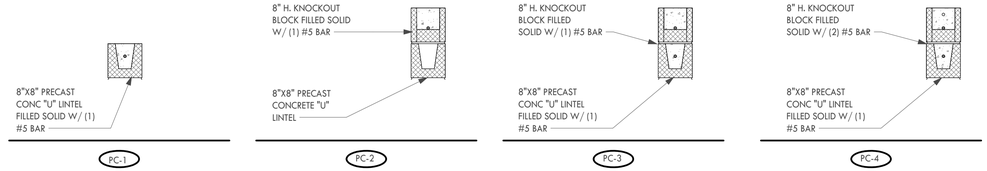
ONE STORY STANDARD FOOTING DETAIL

1 3/4" = 1'-0"



ONE STORY GARAGE FOOTING DETAIL

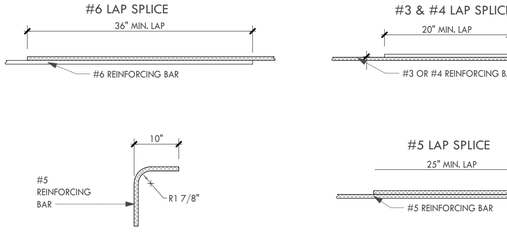
6 3/4" = 1'-0"



- THE K.O. BLOCK ABOVE THE LINTEL IS THE MINIMUM REQUIRED. ADDITIONAL GROUT FILLED CMU BLOCKS CAN BE INSTALLED BETWEEN
- THE K.O. BLOCK AND THE LINTEL FOR HIGH REQUIREMENTS. THE K.O. BLOCK ABOVE CAN BE THE SAME AS THE WALL TIE BEAM.
- NOTE: PRECAST LINTELS SHALL BE "CAST CRETE" OR EQUAL.

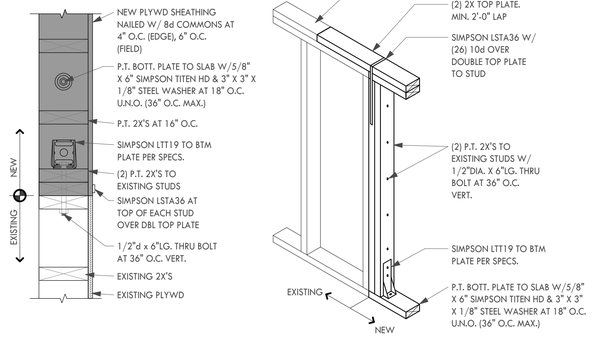
TYPICAL PRECAST LINTEL

5 3/4" = 1'-0"



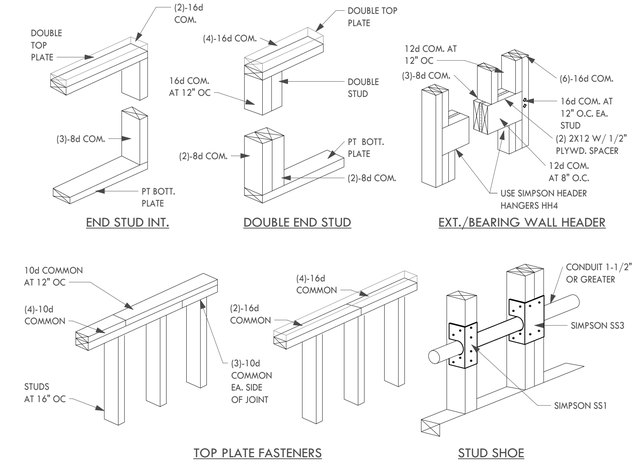
REBAR DETAILS

3 3/4" = 1'-0"



NEW TO EXISTING FRAMING DETAIL

7 3/4" = 1'-0"



FRAMING DETAILS

8 3/4" = 1'-0"

2/28/2017 10:06:00 PM

PINELLAS COUNTY HOUSING AUTHORITY

RESIDENCE RENOVATION

Pinellas County Housing Authority

12065 134th Pl N
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INTEGRAL ENGINEERING, INC.
16704 Tobacco Road, Lutz, FL 33558
Phone: (813) 908-0402 | Fax: (813) 968-0266 | EB # 8253

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DATE:

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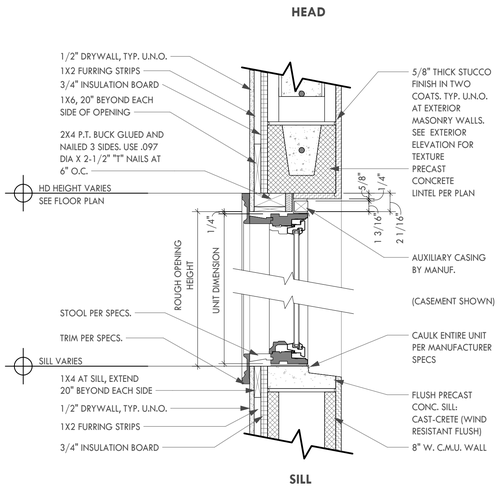
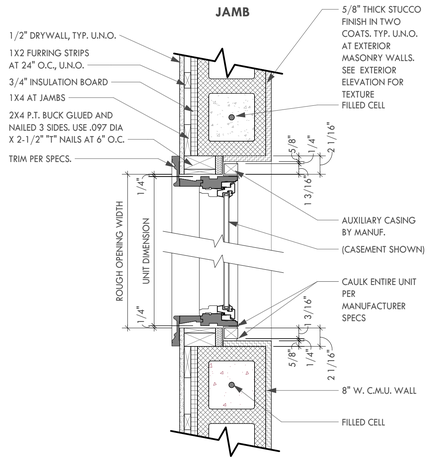
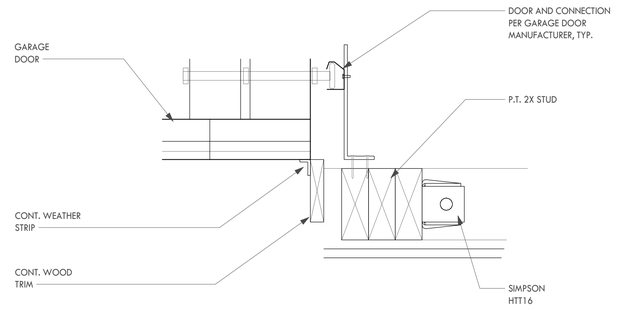
Sheet Name :	STRUCTURAL DETAILS
Phase :	**PERMIT SET**
Revision :	
Date :	3.3.2017
Drawn by :	DC
Checked by :	LC
Plot Scale :	
Project Number :	1659

S-4.0



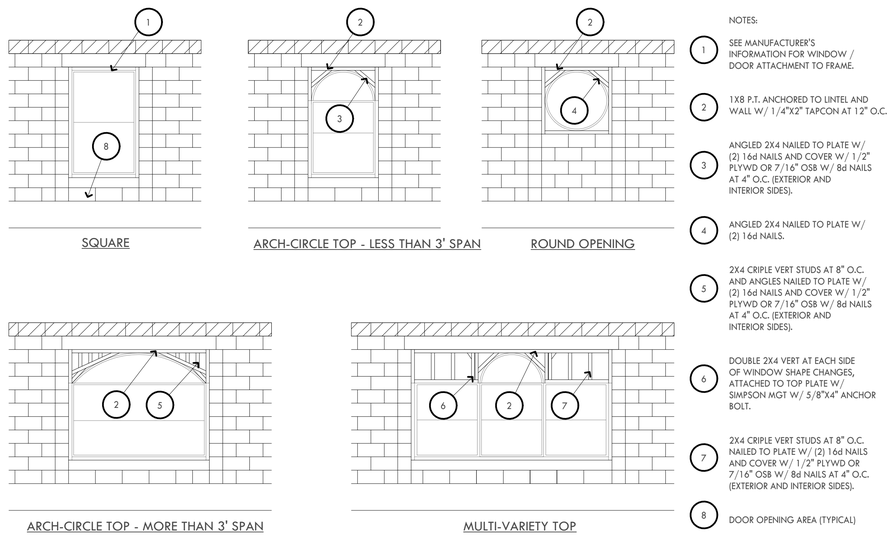




EXTERIOR - FRAME

WINDOW SECTIONS
1 NOT TO SCALE

GARAGE TRACK MOUNTING
2 1 1/2" = 1'-0"



NOTES:

1. SEE MANUFACTURER'S INFORMATION FOR WINDOW / DOOR ATTACHMENT TO FRAME.
2. 1X8 P.T. ANCHORED TO LINTEL AND WALL W/ 1/4"X2" TAPCON AT 12" O.C.
3. ANGLED 2X4 NAILED TO PLATE W/ (2) 16d NAILS AND COVER W/ 1/2" PLYWD OR 7/16" OSB W/ 8d NAILS AT 4" O.C. (EXTERIOR AND INTERIOR SIDES).
4. ANGLED 2X4 NAILED TO PLATE W/ (2) 16d NAILS.
5. 2X4 CRIPLE VERT STUDS AT 8" O.C. AND ANGLES NAILED TO PLATE W/ (2) 16d NAILS AND COVER W/ 1/2" PLYWD OR 7/16" OSB W/ 8d NAILS AT 4" O.C. (EXTERIOR AND INTERIOR SIDES).
6. DOUBLE 2X4 VERT AT EACH SIDE OF WINDOW SHAPE CHANGES, ATTACHED TO TOP PLATE W/ SIMPSON MGT W/ 5/8"X4" ANCHOR BOLT.
7. 2X4 CRIPLE VERT STUDS AT 8" O.C. NAILED TO PLATE W/ (2) 16d NAILS AND COVER W/ 1/2" PLYWD OR 7/16" OSB W/ 8d NAILS AT 4" O.C. (EXTERIOR AND INTERIOR SIDES).
8. DOOR OPENING AREA (TYPICAL)

WINDOW AND DOOR MOUNTING - MASONRY
as NOT TO SCALE

2/28/2017 100601 PM

PINELLAS COUNTY HOUSING AUTHORITY

RESIDENCE RENOVATION

Pinellas County Housing Authority

12065 134th Pl N
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16704 Tobacco Road, Lutz, FL 33558
Phone: (813) 908-0402 | Fax: (813) 908-0206 | EB # 8253

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DATE:
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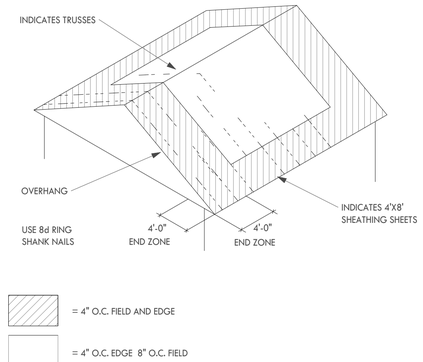
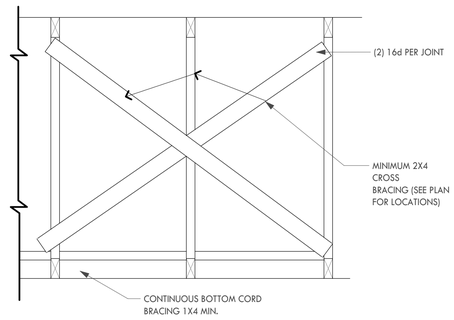
Sheet Name :	WINDOW & DOOR DETAILS
Phase :	**PERMIT SET**
Revision :	
Date :	3.3.2017
Drawn by :	DC
Checked by :	LC
Plot Scale :	
Project Number :	1659

S-4.2



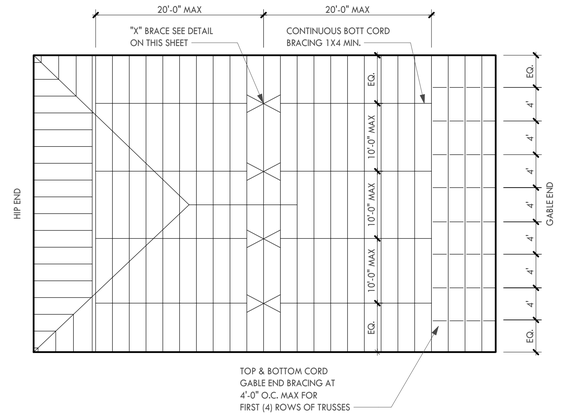
NAILING DIAGRAM

1 NOT TO SCALE



CROSS BRACING

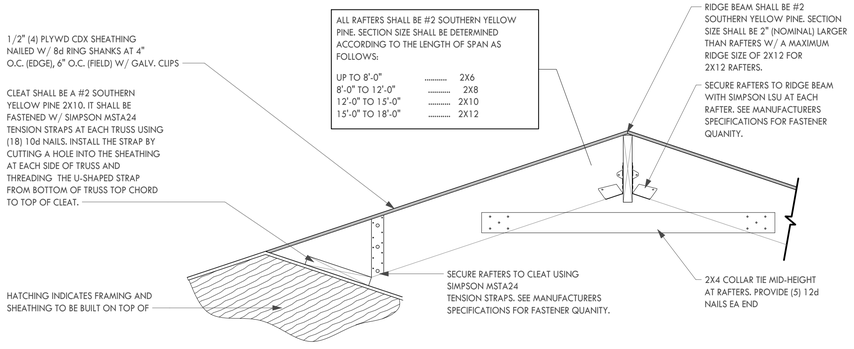
2 NOT TO SCALE

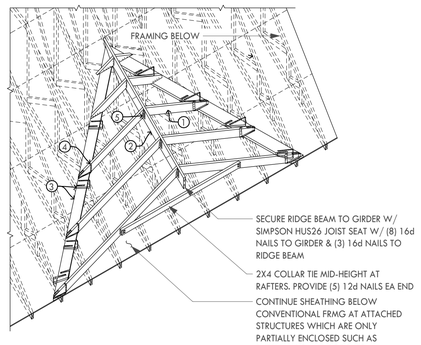


NOTE:
1. SEE TRUSS MANUFACTURER'S TRUSS ENGINEERING CUT SHEETS FOR ADDITIONAL PERMANENT BRACING THAT MAY BE REQUIRED.
2. "I" BRACING MAY BE USED IN PLACE OF PERMANENT BRACING PROVIDED IT EXTENDS OVER AT LEAST 90% OF THE WEB.

MINIMUM PERMANENT TRUSS BRACING PLAN

3 NOT TO SCALE





NOTES:

1. ALL RAFTERS SHALL BE #2 SOUTHERN YELLOW PINE. SECTION SIZE SHALL BE DETERMINED ACCORDING TO THE LENGTH OF SPAN AS FOLLOWS:
   UP TO 8'-0" 2X6
   8'-0" TO 12'-0" 2X8
   12'-0" TO 15'-0" 2X10
   15'-0" TO 18'-0" 2X12
2. RIDGE BEAM SHALL BE #2 SOUTHERN YELLOW PINE. SECTION SIZE SHALL BE 2" (NOMINAL) LARGER THAN RAFTERS W/ A MAXIMUM RIDGE SIZE OF 2X12 FOR 2X12 RAFTERS.
3. CLEAT SHALL BE A #2 SOUTHERN YELLOW PINE 2X10. IT SHALL BE FASTENED AS SHOWN W/ SIMPSON MSTA24 TENSION STRAPS AT EACH TRUSS USING (18) 10d NAILS. INSTALL THE STRAP BY CUTTING A HOLE INTO THE SHEATHING AT EACH SIDE OF TRUSS AND THREADING THE U-SHAPED STRAP FROM BOTTOM OF TRUSS TOP CHORD TO TOP OF CLEAT.
4. SECURE RAFTERS TO CLEAT USING SIMPSON MSTA24 TENSION STRAPS. SEE MANUFACTURERS SPECIFICATIONS FOR FASTENER QUANITY.
5. SECURE RAFTERS TO RIDGE BEAM USING SIMPSON LSU HANGER SLOPING JOIST SEAT. SEE MANUFACTURERS SPECIFICATIONS FOR FASTENER QUANITY.

CONVENTIONAL FRAMING DETAIL

4 1/2" = 1'-0"

2/28/2017 10:06:02 PM

PINELLAS COUNTY HOUSING AUTHORITY — PROGRESSIVE PINELLAS

RESIDENCE RENOVATION

Pinellas County Housing Authority

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Phone: (813) 388-0402 | Fax: (813) 960-0206 | EB # 8353

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Sheet Name :		ROOF DETAILS
Phase :		**PERMIT SET**
Revision :		
Date :	3.3.2017	
Drawn by :	DC	**S-4.3**
Checked by :	LC	
Plot Scale :		
Project Number :	1659	