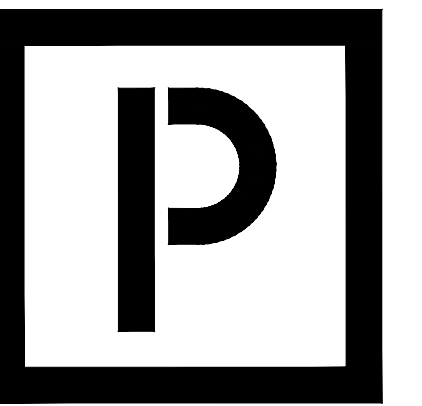


# FAIRWAY POINT GARAGE BUILDING

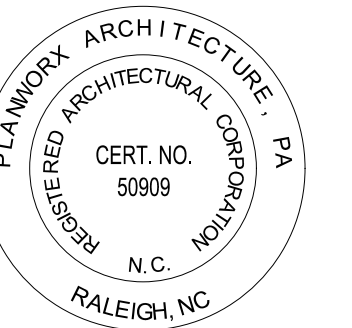
SPRING LAKE, NC

## Gallery Dr.



**PLANWORX**  
ARCHITECTURE

5711 SIX FORKS ROAD, SUITE 100  
RALEIGH NC 27609  
website www.planworx.com

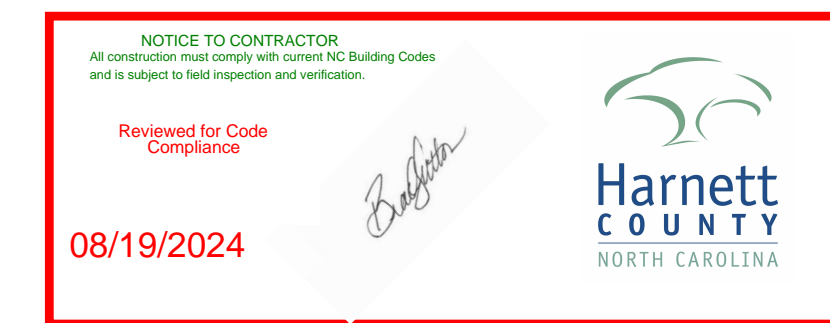


Fairway Point Garage Building

H&H Constructors, Inc.

Gallery Dr, Spring Lake, NC 28390

Issued For Permit Review



**PROJECT SCOPE**

- SINGLE 9 BAY GARAGE BUILDING TYPE

**STATE OF NORTH CAROLINA ADOPTED CODES**

- 2018 NORTH CAROLINA STATE BUILDING CODE
- 2018 NORTH CAROLINA STATE BUILDING CODE: ENERGY CONSERVATION CODE
- 2020 NATIONAL ELECTRICAL CODE
- 2009 ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

**PROJECT TEAM**

ARCHITECTURAL:  
PLANWORX ARCHITECTURE, P.A.  
5711 SIX FORKS ROAD, SUITE 100  
RALEIGH, NC 27609  
919.846.8100

STRUCTURAL:  
HAUSER-CREECH, INC.  
919.817.7676

PME:  
MAPLE ENGINEERING  
708 ST MARY'S STREET  
P.O. BOX 10443  
RALEIGH, NC 27605  
919.341.4247

PROGRESS DATE: 03-16-23

PROJECT NO: 001123

DRAWN BY: AT

CHECKED BY: RW, MM

SHEET TITLE: Project Cover Sheet

SHEET NUMBER:

**G000**

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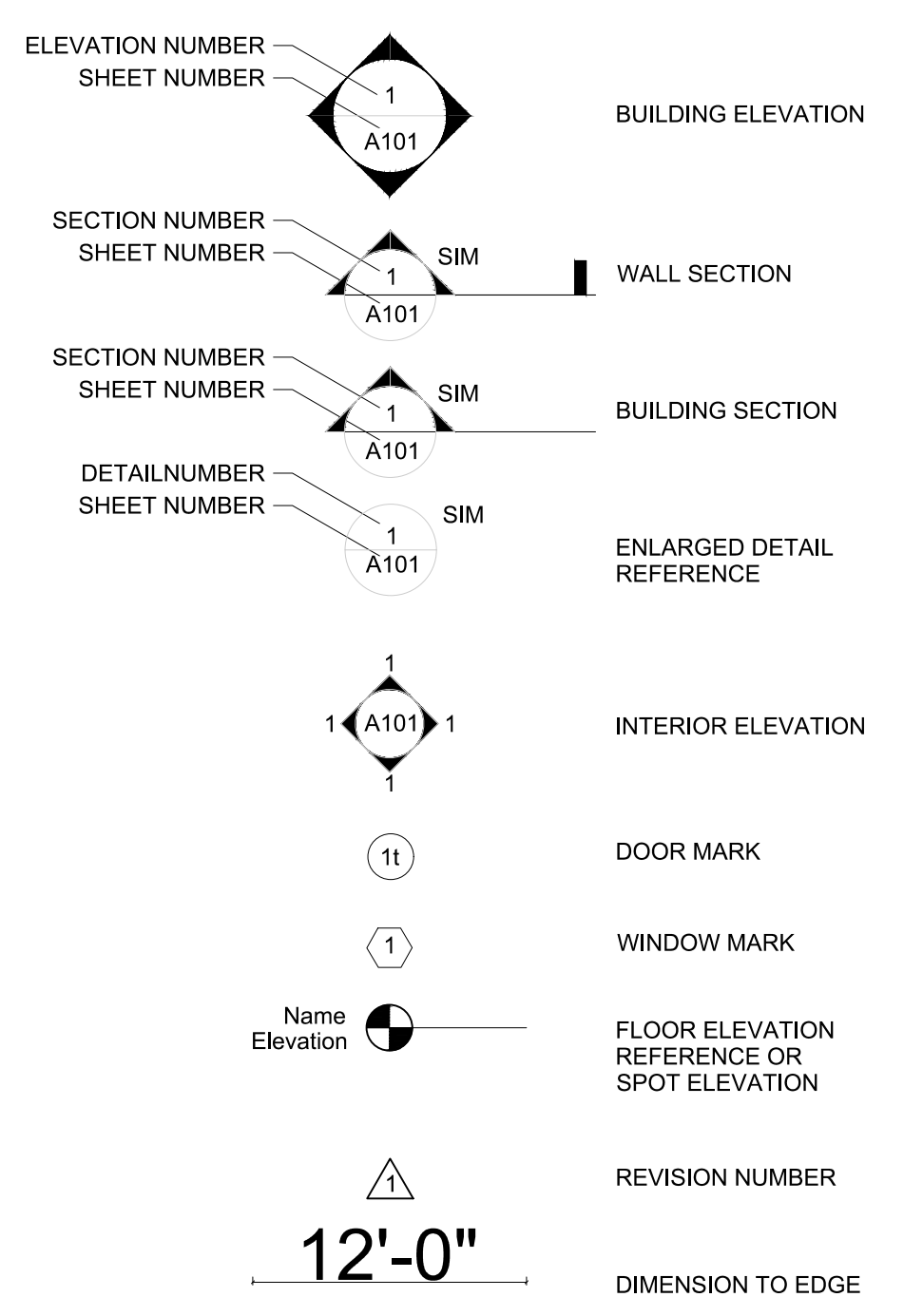
**ABBREVIATIONS LIST**

ATOS	ABOVE TOP OF SLAB
AFF	ABOVE FINISHED FLOOR
ACT	ACOUSTIC(AL) CEILING TILE
ADD	ADDENDUM
ADH	ADHESIVE
ADJ	ADJACENT
ALUM	ALUMINUM
ARCH	ARCHITECT(URAL)
BM	BEAM
BET	BETWEEN
BLK	BLOCKING
BD	BOARD
BLDG	BUILDING
BHD	BULKHEAD
BTOS	BELOW TOP OF SLAB
CAB	CABINET
CLG	CEILING
CT	CERAMIC TILE
CTR	CENTER
CLR	CLEAR(ANCE)
CL	CLOSET
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CONF	CONFERENCE
CONST	CONSTRUCTION
CJ	CONSTRUCTION JOINT
CONT	CONTINUOUS
CONTR	CONTRACTOR
DEMO	DEMOLITION
DTL	DETAIL
DIAG	DIAGONAL
DIA	DIAMETER
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION
DR	DOOR
DBL	DOUBLE
DN	DOWN
DWR	DRAWER
DWG	DRAWING
DF	DRINKING FOUNTAIN
EA	EACH
ELEC	ELECTRIC(AL)
EWC	ELECTRIC WATER COLLER
EL	ELEVATION
ELEV	ELEVATOR
ENCL	ENCL(USE)RE
EQ	EQUAL
EX	EXISTING
EJ	EXPANSION JOINT
EXP	EXPOSED
EXT	EXTERIOR
FF	FINISHED FLOOR
FIN	FINISHED
FA	FIRE ALARM
FC	FLOORING CHANGE
FE	FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET
FR	FIRE RATED(ING)
FL	FLOOR(ING)
FD	FLOOR DRAIN
FT	FULLY TEMPERED
FJR	FURRING
GA	GAUGE
GWB	GYPSUM WALL BOARD
HORIZ	HORIZONTAL
H&V	HORIZONTAL AND VERTICAL
HR	HOUR
INCL	INCLUDE(D)ING
ID	INSIDE DIAMETER
INSUL	INSULATE(D)ION
INT	INTERIOR
ISG	INSULATED SAFETY GLAZING
JC	JANITORS CLOSET
KD	KNOCK DOWN
JT	JOINT
KIT	KITCHEN
LBL	LABEL
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
LT	LIGHT
LG	LONG, LENGTH
MFR	MANUFACTURER
MO	MASONRY OPENING
MTL	MATERIAL(S)
MAX	MAXIMUM
MECH	MECHANICAL
MET	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MTD	MOUNTED
MOV	MOVABLE
MUL	MULLION
NOM	NOMINAL
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
OFF	OFFICE
OC	ON CENTER
OPNG	OPENING
OPP	OPPOSITE
OD	OUTSIDE DIAMETER
OA	OVERALL
AH	OVERHEAD
PTD	PAINTED
JPR	PAIR
PBD	PARTICLE BOARD
PTN	PARTITION
PERF	PERFORATED
PLAS	PLASTER
PLAM	PLASTIC LAMINATE
PWD	PLYWOOD
PT	PAPER TOWEL DISPENSER/DISPOSAL
PROJ	PROJECTED(ION)
QT	QUARRY TILE
RAD, R	RADIUS
REF	REFERENCE
REINF	REINFORCED(ING)
REQ	REQUIRED
RES	RESILIENT
REV	REVISION
RH	RIGHT HAND
R	RISER
RM	ROOM
RO	ROUGH OPENING
RB	RUBBER BASE
SND	SANITARY NAPKIN DISPENSER
SR	SANITARY NAPKIN RECEPTACLE
SCHED	SCHEDULE
SD	SOAP DISPENSER
SG	SAFETY GLAZING
SH	SHELF, SHELVING
SIM	SIMILAR
SC	SOLID CORE
SPEC	SPECIFICATION, SPECIFIED
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUC	STRUCTURAL
SUSP	SUSPENDED
TEL	TELEPHONE
THK	THICKENS
THRES	THRESHOLD
TP	TOILET PAPER DISPENSER
T&G	TONGUE AND GROOVE
T	TREAD
TOS	TOP OF SLAB
TYP	TYPICAL
UC	UNDERCUT
UNF	UNFINISHED
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
VB	VINYL BASE
VERT	VERTICAL
VCT	VINYL COMPOSITION TILE
WC	WALL COVERING
WP	WATERPROOFING
W	WITH
W/O	WITHOUT
WD	WOOD

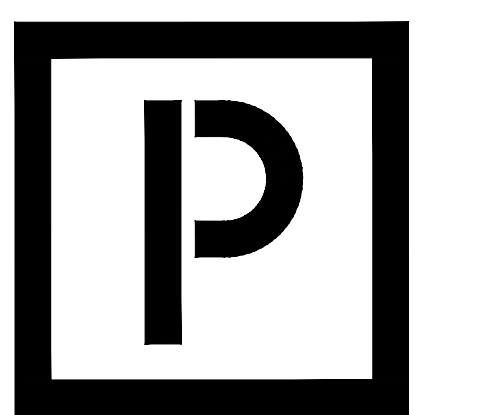
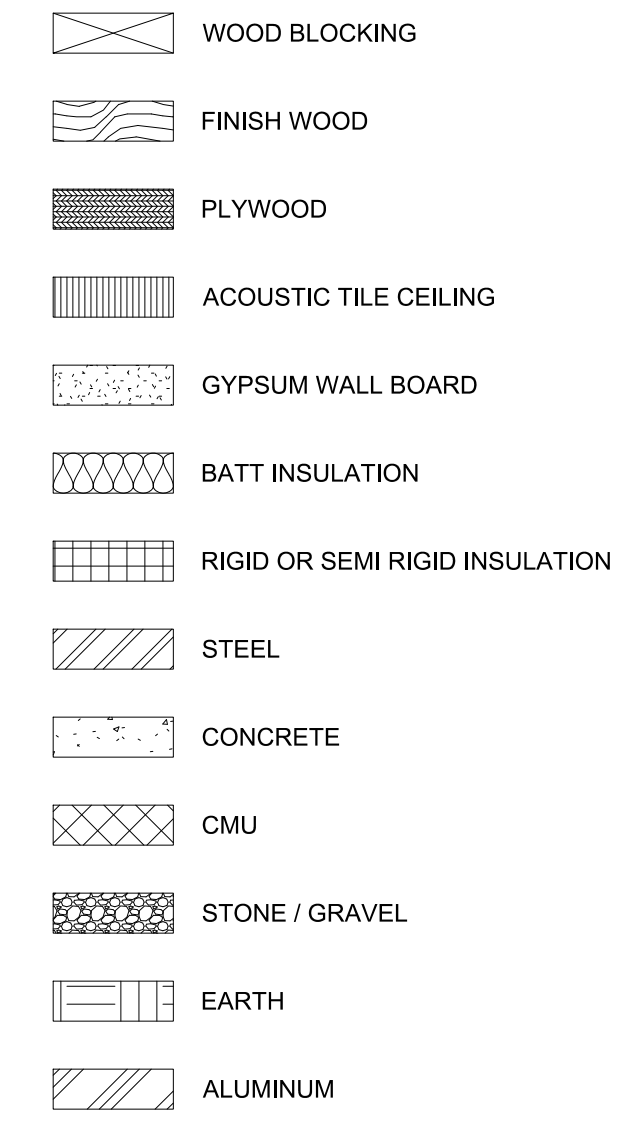
FAIRWAY POINTE GARAGE BUILDING - BUILDING TABULATION								
BUILDING TYPE	BUILDING DESCRIPTION	UNITS PER BLDG	UNIT MIX	TOTAL HEATED SQFT. (PER BUILDING CODE)	GROSS SQFT (PER BUILDING CODE. TOTAL AREA UNDER ROOF)	# OF BLDGS ON SITE	TOTAL NET SQFT	TOTAL GROSS SQFT
*GARAGE TYPE 1	1- STORY BLDG	N/A	N/A	-	2,457	1	-	2,457
* = NON HEATED/CONDITIONED BUILDING								

GARAGE TYPE 1 SHEET INDEX															
GENERAL				ARCHITECTURAL				STRUCTURAL				PME - ELECTRICAL			
SHEET NUMBER	REV. #	REVISION DATE	SHEET TITLE	SHEET NUMBER	REV. #	REVISION DATE	SHEET TITLE	SHEET NUMBER	REV. #	REVISION DATE	SHEET TITLE	SHEET NUMBER	REV. #	REVISION DATE	SHEET TITLE
G000			COVER SHEET	A100			GARAGE TYPE 1 PLAN	S101			GARAGE BUILDING FOUNDATION PLAN	E001			ELECTRICAL SCHEDULES AND NOTES
G001			SHEET INDEX & GENERAL PROJECT INFO	A101			GARAGE TYPE 1 ROOF PLAN	S201			GARAGE BUILDING ROOF FRAMING	E002			ELECTRICAL DETAILS
G002			GENERAL PROJECT NOTES	A102			GARAGE TYPE 1 ELEVATIONS	S301			FOUNDATION DETAILS	E101			ELECTRICAL GARAGE PLAN
G003			GARAGE TYPE 1 CODE SUMMARY					S401			FRAMING DETAILS				
G004			UL DETAILS					S402			FRAMING DETAILS				
G005			UL DETAILS					S501			GENERAL NOTES AND SPECIAL INSPECTIONS				

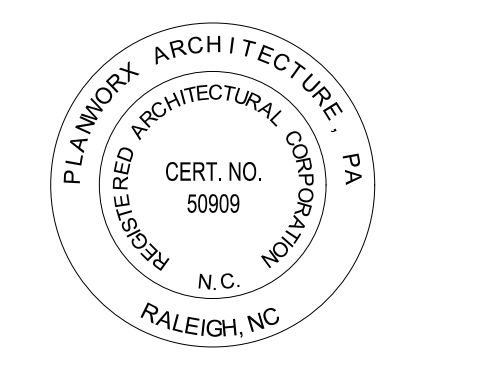
**ARCHITECTURAL SYMBOLS**



**MATERIAL GRAPHICS**



**PLANWORX ARCHITECTURE**  
 5711 SIX FORKS ROAD, SUITE 100  
 RALEIGH NC 27609  
 website www.planworx.com

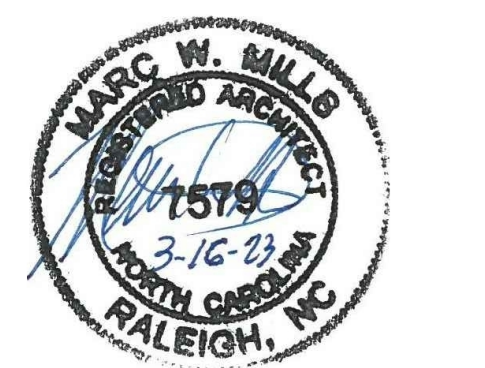


Fairway Point Garage Building

H&H Constructors, Inc.

Gallery Dr, Spring Lake, NC 28390

Issued For Permit Review



PROGRESS DATE:	03-16-23
ISSUE DATE:	
REVISIONS:	
NUMBER	
DATE	
INITIALS	
DESCRIPTION	

PROJECT NO: 001123

DRAWN BY: AT

CHECKED BY: RW, MM

SHEET TITLE: Sheet Index & General Project Info

SHEET NUMBER: G001

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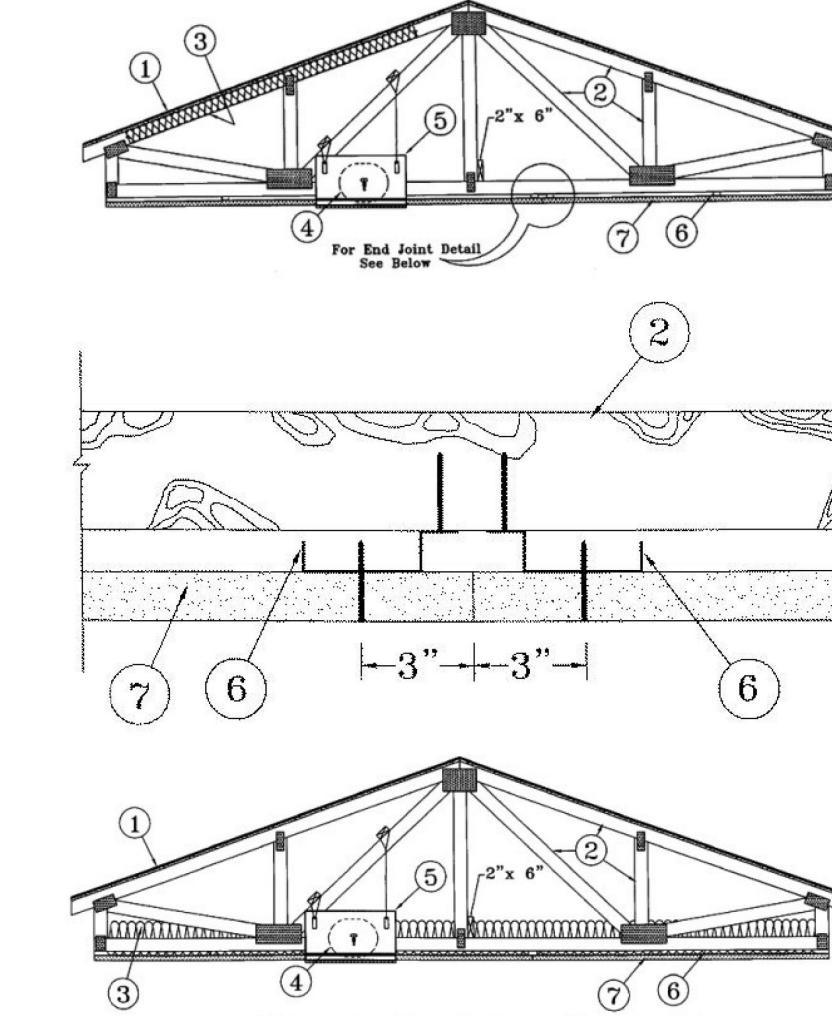










640201	BXUV/P522 UL Product ID	640201	BXUV/P522 UL Product ID	640201	BXUV/P522 UL Product ID
<p><b>UL Product iQ™</b></p> <p><b>BXUV.P522</b></p> <p>Design/Item/Construction/Assembly Usage Disclaimer</p> <ul style="list-style-type: none"> <li>Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL certified products, equipment, systems, devices, and materials.</li> <li>Authorities Having Jurisdiction should be consulted before construction.</li> <li>Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot be taken as evidence of any construction nuance encountered in the field.</li> <li>When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of the resistance assemblies are advised to consult the general Guide information for each product category and each group of assemblies. The Guide information includes specifics concerning alternate materials and alternate methods of construction.</li> <li>Only products which bear UL's Mark are considered Certified.</li> </ul> <p><b>BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States</b></p> <p><b>BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada</b></p> <p>See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States    Design Criteria and Assembly Variance    See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada    Design Criteria and Assembly Variance</p> <p><b>Design No. P522</b>    May 22, 2021</p> <p><b>Unrated Assembly Rating — 1 Hr</b>  <b>Fire Rating — 25 Min (See Items 3 or 3A)</b></p> <p>This design was evaluated using a load design method other than the Unit State Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit State Design Method, such as Canada, a load restriction factor shall be used — See Guide <b>BXUV</b> or <b>BXUV7</b>.</p> <p>* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.</p> <p>https://ul.updates.com/en/w/ps/14619 110</p>	 <p><b>Alternate Insulation Placement</b></p> <p><b>1. Roofing System</b> — Any UL Class A or B Ceiling System (FGI) or Prepared Roof Covering (TWO) acceptable for use over non 15/32 in. thick wood structural panels, min. grade "C" or "D" or "Shoring"; from 15/32 in. thick wood structural panels secured to trusses with No. 6 dry ridge sheath nails spaced 12 in. OC along each truss. Stages having equal or greater wall and lateral resistance strength may be substituted for the 6d nail. Construction adhesive may be used either the nails or staples.</p> <p>https://ul.updates.com/en/w/ps/14619 210</p>	<p><b>2. Trusses</b> — Pitched or parallel chord wood trusses, spaced a max of 24 in. OC, fabricated from nom 2 by 4 lumber, with lumber oriented vertically or horizontally. Truss members secured together with min. 0.036 in. thick gale steel plates. Plates have 5/16 in. long teeth projecting perpendicular to the plane of the plate. The teeth are in pairs facing each other (made by the same punch), forming a split tooth type plate. Each tooth has a chisel point on its outside edge. These points are diagonally opposed to each other for each pair. The top half of each tooth has a bevel for stiffness. The pairs are repeated on approximately 7.8 in. centers with four gages between per inch of plate width. Minimum parallel chord truss depth shall be 18 in. Where the truss intersects with the interior face of the exterior wall, the min truss depth shall be 1.6 in. with a max roof slope of 3/12 and a min. rise in the plane of the truss of 2.1 sq ft. Where the truss intersects with the interior face of the exterior wall, the min truss depth may be reduced to 3 in. in the bays and blankets (Item 3) as well as shown in the sub-assembly illustration (Alternate Installation Placement) and are firmly gaged against the intersection of the bottom chords and the plywood sheathing.</p> <p><b>3. Batts and Blankets</b> — (Optional) — Required when Item 6B is used — Glass fiber insulation, secured to the wood structural panels with staples spaced 12 in. OC or to the trusses with 0.091 in. diam. gale steel wire spaced 12 in. OC. Any gale fiber insulation bearing the UL Classification Marking to Surface Burning Characteristics and/or Fire Resistance, having a min density of 0.5 pcf. As an option, the insulation may be fitted over the concealed space, draped over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. <b>Steel Framing Members (Item 6B)</b> are used, max 3-1/2 in. thick insulation shall be draped over the furring channels (Item 6A) and gypsum board ceiling membrane, and friction fitted between trusses and Steel Framing Members (Item 6B). The finished rating may be determined when the insulation is secured to the decking.</p> <p><b>3A. Fiber Spray™</b> — As an alternate to Item 3 (not evaluated for use with Item 6B) — Any thickness of spray applied cellulose insulation material, having a min density of 0.5 lb/ft<sup>3</sup> applied with water, over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Fiber, Sprayed is applied with moisture in accordance with the application instructions supplied with the product. The finish rating when Fiber Spray™ is used has not been determined. Alternate application method: The fiber is applied without water or adhesive in accordance with the application instructions supplied with a minimum density of 0.5 lb/ft<sup>3</sup> over the resilient channel/gypsum board ceiling membrane when resilient channels and gypsum board attachment is modified as specified in Items 6 and 7. Alternate application method: The fiber is applied without water or adhesive to a nominal density of 0.5 lb/ft<sup>3</sup> behind netting (Item 8) stapled to the rafters. The rafters is stapled at both lower edges of the rafters creating a cavity to accept the cellulose fiber.</p> <p><b>3B. GreenGard™ L.L.C.™</b> — (N/A) — RSC-1, RSC-2, RSC-3, RSC-4, RSC-5, RSC-6, RSC-7, RSC-8, RSC-9, RSC-10, RSC-11, RSC-12, RSC-13, RSC-14, RSC-15, RSC-16, RSC-17, RSC-18, RSC-19, RSC-20, RSC-21, RSC-22, RSC-23, RSC-24, RSC-25, RSC-26, RSC-27, RSC-28, RSC-29, RSC-30, RSC-31, RSC-32, RSC-33, RSC-34, RSC-35, RSC-36, RSC-37, RSC-38, RSC-39, RSC-40, RSC-41, RSC-42, RSC-43, RSC-44, RSC-45, RSC-46, RSC-47, RSC-48, RSC-49, RSC-50, RSC-51, RSC-52, RSC-53, RSC-54, RSC-55, RSC-56, RSC-57, RSC-58, RSC-59, RSC-60, RSC-61, RSC-62, RSC-63, RSC-64, RSC-65, RSC-66, RSC-67, RSC-68, RSC-69, RSC-70, RSC-71, RSC-72, RSC-73, RSC-74, RSC-75, RSC-76, RSC-77, RSC-78, RSC-79, RSC-80, RSC-81, RSC-82, RSC-83, RSC-84, RSC-85, RSC-86, RSC-87, RSC-88, RSC-89, RSC-90, RSC-91, RSC-92, RSC-93, RSC-94, RSC-95, RSC-96, RSC-97, RSC-98, RSC-99, RSC-100, RSC-101, RSC-102, RSC-103, RSC-104, RSC-105, RSC-106, RSC-107, RSC-108, RSC-109, RSC-110, RSC-111, RSC-112, RSC-113, RSC-114, RSC-115, RSC-116, RSC-117, RSC-118, RSC-119, 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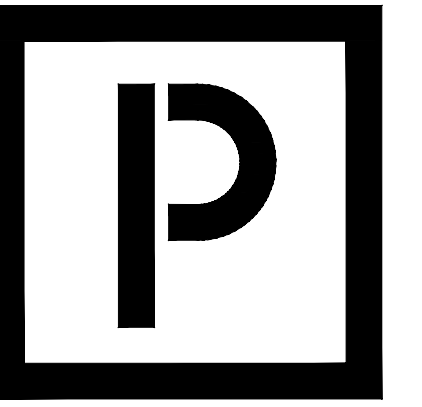






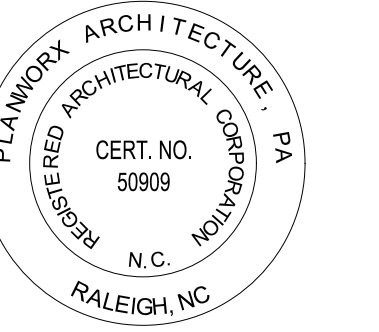
**ROOF PLAN GENERAL NOTES**

1. ALL DOWNSPOUTS ARE 3"x4"
  2. WHERE RIDGE VENTS ARE INDICATED AT OVER FRAMED DORMERS, PROVIDE A MIN. 22X36 ACCESS OPENING IN MAIN ROOF SHEATHING
  3. APPLY ICE+WATER SHIELD TO ALL AREAS OF ROOF NOTED BELOW:
    - VALLEYS
    - ROOF SLOPES BELOW 4:12
    - ROOF/WALL INTERSECTIONS
    - EAVES
    - RIDGES
    - HIPS
- D.S. = DOWNSPOUT



**PLANWORX ARCHITECTURE**

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RALEIGH NC 27609  
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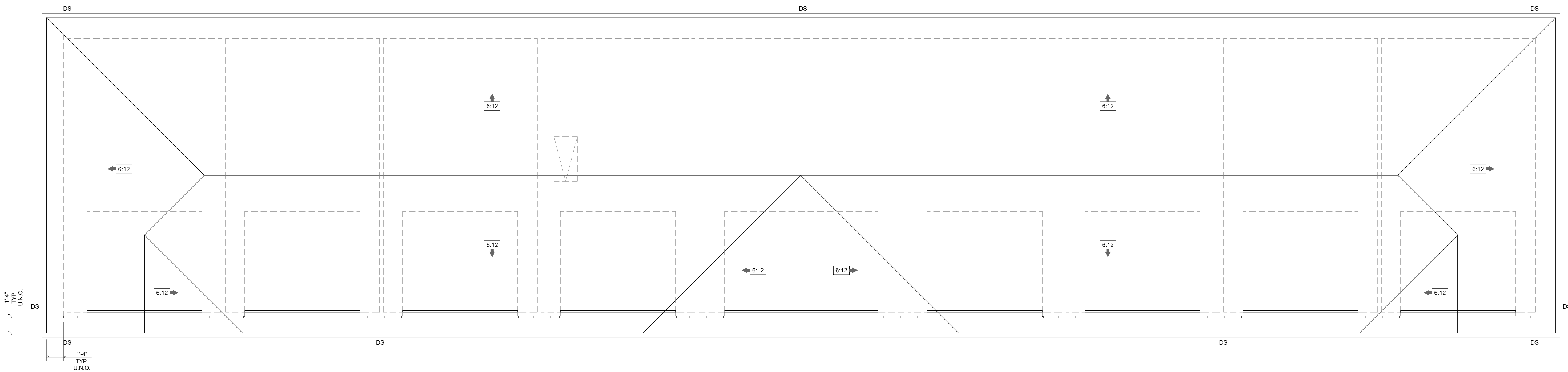
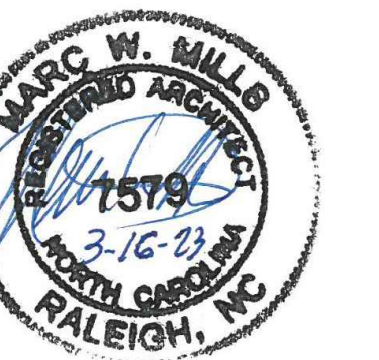


Fairway Point Garage Building

H&H Constructors, Inc.

Gallery Dr, Spring Lake, NC 28390

Issued For Permit Review



Roof Ventilation	
A Ceiling area (square footage)	2910
B Sqft. of ventilation required	19.4
Formulas: B = A / 150	
Notes: Builder to calculate quantities and types of vents to make up the minimum requirement. Attic ventilation shall be approximately 50% soffit, and 50% high (gable end or ridge vents).	

**1 GARAGE TYPE 1 - ROOF PLAN**  
SCALE: 1/4" = 1'-0"

PROGRESS DATE: 03-16-23

ISSUE DATE: 03-16-23

REVISIONS: NUMBER DATE INITIALS DESCRIPTION

PROJECT NO: 001123

DRAWN BY: AT

CHECKED BY: RW, MM

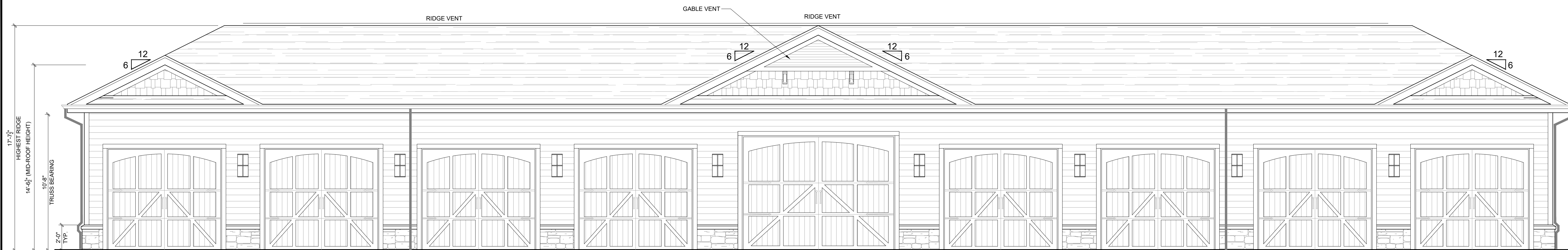
SHEET TITLE: Garage Type 1 Roof Plan

SHEET NUMBER:

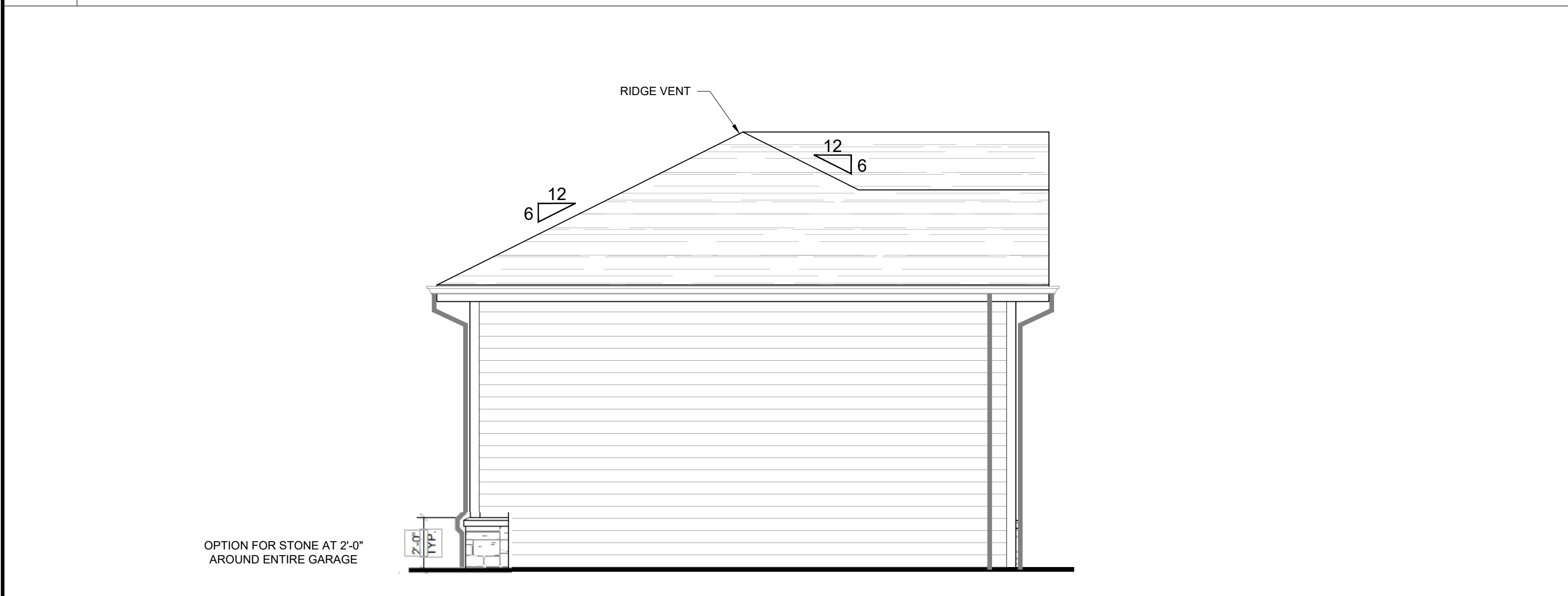
**A101**

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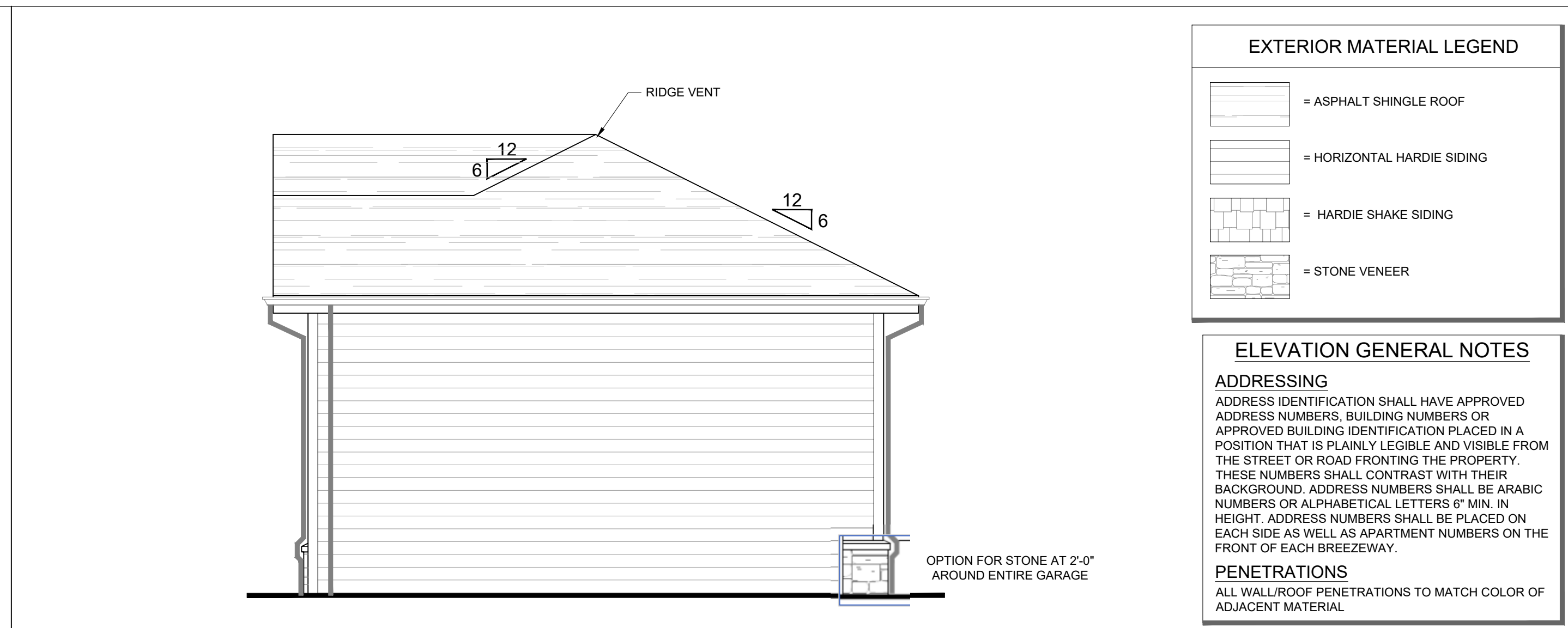




**1 GARAGE TYPE 1 - FRONT ELEVATION**  
SCALE: 1/4" = 1'-0"



**2 GARAGE TYPE 1 - LEFT SIDE ELEVATION**  
SCALE: 1/4" = 1'-0"



**3 GARAGE TYPE 1 - RIGHT SIDE ELEVATION**  
SCALE: 1/4" = 1'-0"

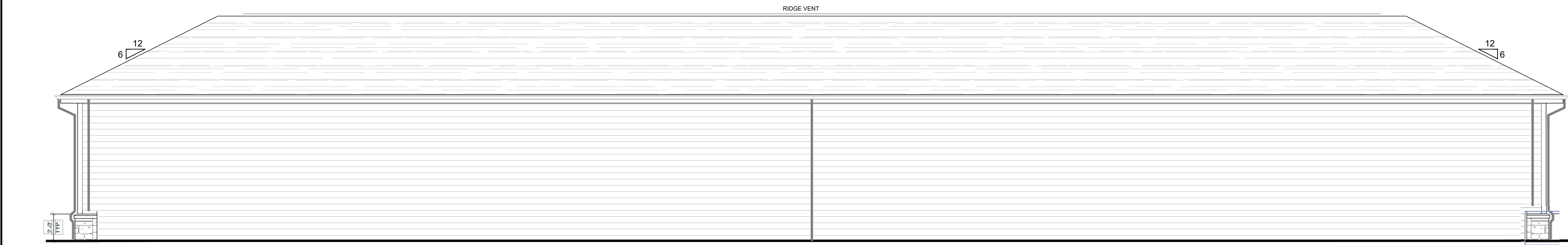
**EXTERIOR MATERIAL LEGEND**

	= ASPHALT SHINGLE ROOF
	= HORIZONTAL HARDIE SIDING
	= HARDIE SHAKE SIDING
	= STONE VENEER

**ELEVATION GENERAL NOTES**

**ADDRESSING**  
ADDRESS IDENTIFICATION SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABETICAL LETTERS 6" MIN. IN HEIGHT. ADDRESS NUMBERS SHALL BE PLACED ON EACH SIDE AS WELL AS APARTMENT NUMBERS ON THE FRONT OF EACH BREEZEWAY.

**PENETRATIONS**  
ALL WALL/ROOF PENETRATIONS TO MATCH COLOR OF ADJACENT MATERIAL.



**4 GARAGE TYPE 1 - REAR ELEVATION**  
SCALE: 1/4" = 1'-0"

**PLANWORX ARCHITECTURE**  
5711 SIX FORKS ROAD, SUITE 100  
RALEIGH NC 27609  
website www.planworx.com

Fairway Point Garage Building  
 H&H Constructors, Inc.  
 Gallery Dr, Spring Lake, NC 28390  
 Issued For Permit Review

PROGRESS DATE:	03-16-23		
ISSUE DATE:			
REVISIONS:			
NUMBER	DATE	INITIALS	DESCRIPTION

PROJECT NO: 001123  
DRAWN BY: AT  
CHECKED BY: RW, MM

SHEET TITLE: Garage Type 1 Elevations

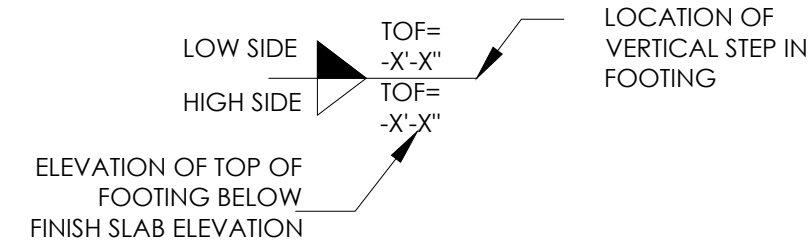
SHEET NUMBER: A102

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**FOUNDATION NOTES:**

1. PROVIDE 4" THICK CONCRETE SLAB ON GRADE REINFORCED WITH WWF 6x6 W1.4-W1.4, OVER 6 MIL POLY VAPOR BARRIER. SLAB MAY BE PLACED DIRECTLY OVER COMPACTED SUBGRADE OR OVER 4" POROUS BASE, REFER TO GEOTECHNICAL REPORT RECOMMENDATIONS.
2. ALL DIMENSIONS REFERENCED TO EDGE OF SLAB, EDGE OF THICKENED SLAB. VERIFY DIMENSIONS PRIOR TO CONSTRUCTION.
3. SEE ARCH. DWGS. FOR DIMENSIONS NOT SHOWN.
4. REFER TO ARCH. DWGS. FOR LOCATIONS OF RECESSED OR SLOPED SLAB AREAS. PROVIDE POSITIVE DRAINAGE.
5. SEE DETAIL 6/S301 FOR SLAB CONTROL JOINTS (CJ). ALTERNATE LAYOUT PLANS MAY BE SUBMITTED FOR APPROVAL.
6. REFER TO ARCHITECTURAL DRAWINGS FOR RATED WALL LOCATIONS.
7. SEE FOOTING SCHEDULE/SECTIONS FOR SIZES AND REINFORCING.
8. SEE STUD SCHEDULE FOR MEMBER SIZES
9. INTERIOR FOOTING DIMENSIONS SHOULD NOT BE USED TO LOCATE INTERIOR WALLS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL INTERIOR WALL DIMENSIONS.
10. "HD" INDICATED LOCATIONS OF HOLDDOWNS. REFER TO HOLD DOWN SCHEDULE FOR MORE INFORMATION. HOLDDOWNS HAVE BEEN DESIGNED TO RESIST OVERTURNING MOMENTS FROM SEISMIC AND WIND LOADS. ANY SUBSTITUTIONS MUST BE APPROVED BY THE EOR.
11. PREPARE SUBGRADE PER GEOTECHNICAL REPORT RECOMMENDATIONS.



**SHEAR WALL SCHEDULE**

EXTERIOR WALLS	INTERIOR DEMISING WALLS
7/16" APA RATED OSB SHEATHING, <b>BLOCK ALL UNSUPPORTED EDGES WITH 2x4 BLOCKS</b> . PROVIDE MIN 8d'S AT 6" O.C. AT ALL EDGES AND 12" O.C. AT FIELD	GYP-BOARD NAILED TO ALL FRAMING MEMBER AT 7" O.C. MAX. HORIZONTAL BLOCKS ARE NOT REQUIRED.

**STUD SCHEDULE**

SUPPORTING	EXTERIOR WALLS	INTERIOR NON BEARING WALLS
ROOF	(1) 2x4 @ 16" O.C.	(1) 2x4 @ 16" O.C.

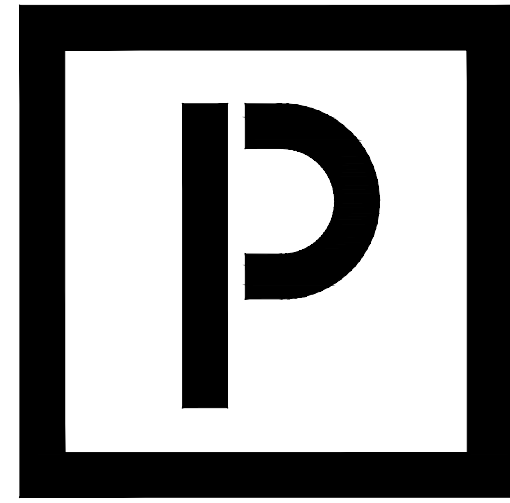
**HOLDDOWN SCHEDULE (HD)**

LOCATION	EXTERIOR WALLS
FOUNDATION	(1) SIMPSON HT4 TIE (2) STUDS TO FOUNDATION, DRILL AND EPOXY 5/8" THREADED ROD (7" EMBED)

1. HOLDDOWNS INDICATED IN TABLE SHALL BE USED AT ALL "HD" LOCATIONS ON THE PLANS.

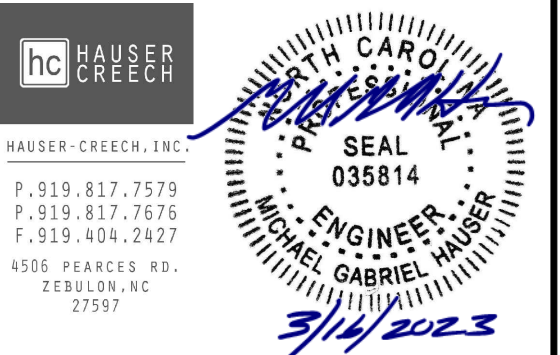
**ABBREVIATIONS:**

- |        |                        |
|--------|------------------------|
| COL.   | COLUMN                 |
| EX.    | EXISTING               |
| S.O.G. | SLAB ON GRADE          |
| T.O.S. | TOP OF STEEL           |
| T.O.P. | TOP OF PARAPET         |
| T.O.M. | TOP OF MASONRY         |
| O.C.   | ON CENTERS SPACING     |
| T-B    | TOP AND BOTTOM         |
| F.F.E. | FINISH FLOOR ELEVATION |
| TYP.   | TYPICAL                |
| DEMO.  | DEMOLITION             |
| CONT.  | CONTINUOUS             |
| CMU    | CONCRETE MASONRY UNIT  |
| STD.   | STANDARD               |
| XS.    | EXTRA STRONG           |
| XXS.   | DOUBLE EXTRA STRING    |
| GALV.  | GALVANIZED             |
| HD     | HOLDDOWN               |
| WWF    | WIRE WELDED FABRIC     |
| RT     | ROOF TRUSS             |
| GT     | GIRDER TRUSS           |
| FLRT   | FLOOR TRUSS            |



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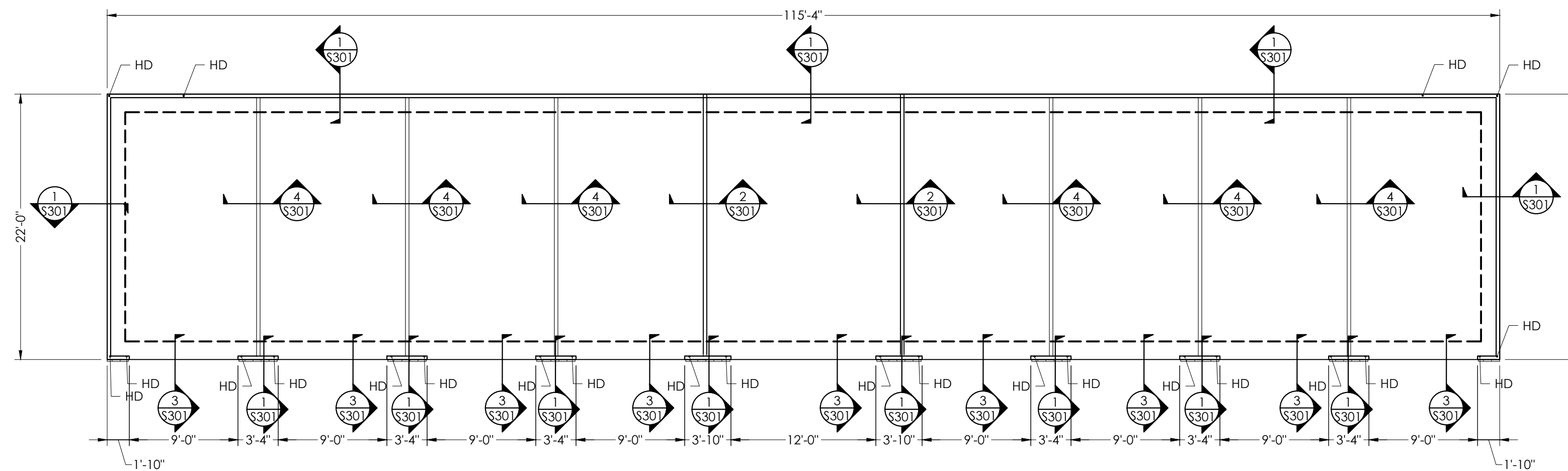


Fairway Point Garage Building

H&H Constructors, Inc.

Gallery Dr, Spring Lake, NC 28390

Issued For Permit Review



**Garage Building Foundation Plan**

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

PROGRESS DATE: 03.16.2023

PROJECT NO: 001123

DRAWN BY: RA

CHECKED BY: MGH

SHEET TITLE:  
Garage Building  
Foundation Plan

SHEET NUMBER:

**S101**

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**ROOF FRAMING NOTES:**

- ALL TRUSS SPACING IS AT 2'-0" O.C. UNLESS NOTED OTHERWISE. SPACE TRUSSES AT ATTIC ACCESS DOORS TO ALLOW FOR PROPER INSTALLATION.
- TRUSS FABRICATOR SHALL VERIFY ALL DIMENSIONS, LAYOUTS AND COORDINATE WITH BEARING WALL AND BEAM LOCATIONS. ALTERNATE LAYOUT PLANS MAY BE SUBMITTED FOR APPROVAL.
- THE CONTRACTOR MUST VERIFY THAT ALL LATERAL BRACING REQUIRED FOR TRUSS WEBS IS INSTALLED PER THE TRUSS SHOP DRAWINGS.
- REFER TO FOUNDATION PLAN FOR DIMENSIONS AND TO ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN.
- ALL TRUSS TO TRUSS CONNECTIONS SHALL BE SPECIFIED BY THE TRUSS DESIGNER AND SHALL BE CLEARLY INDICATED ON THE TRUSS SHOP DRAWINGS.
- ROOF SHEATHING SHALL BE 7/16" OSB APA RATED, EXPOSURE 1 WITH "H" CLIPS AT UNSUPPORTED EDGES BETWEEN TRUSSES. SEE DETAIL 1/S401 OR 2/S401 FOR ROOF DECK NAILING PATTERN.
- VERIFY LOCATION AND AMOUNTS OF ALL HEADERS.
- PRE-FABRICATED TRUSS OVER-BUILD FRAMING, ROOF SHEATHING SHALL BE CONTINUOUS BENEATH TRUSS OVERBUILD. PROVIDE ATTACHMENT OF OVERBUILD FRAMING TO ROOF SHEATHING AND TRUSSES BELOW ACCORDING TO TRUSS MANUFACTURER. SEE 12/S402
- SEE DETAIL 6/S401 FOR TOP PLATE SPLICE DETAIL.
- SEE DETAILS 3/S401 AND 4/S401 FOR PERMANENT ROOF TRUSS BRACING.
- PROVIDE MIN. (3) 2X STUDS BELOW ALL GIRDER TRUSS BEARING POINTS PROVIDE LGT TIE DOWN (U.N.O). SEE DETAIL 9/S402, PROVIDE HT4 HOLDOWN AT FOUNDATION.
- ANY TRUSS TIE DOWN SUBSTITUTIONS MUST BE APPROVED BY THE EOR
- PROVIDE DRAG TRUSS ALIGNED WITH EACH DEMISING WALL. NAIL TRUSS AT ROOF SHEATHING AT 6" O.C. OVER ENTIRE LENGTH OF TRUSS. DESIGN TRUSS TO TRANSFER 150 PLF LATERAL LOAD FROM TOP CHORD TO BOTTOM CHORD. LATERAL LOAD IS RESISTED OVER ENTIRE LENGTH OF SHEAR WALL.

**ABBREVIATIONS:**

- |        |                        |
|--------|------------------------|
| COL.   | COLUMN                 |
| EX.    | EXISTING               |
| S.O.G. | SLAB ON GRADE          |
| T.O.S. | TOP OF STEEL           |
| T.O.P. | TOP OF PARAPET         |
| I.O.M. | TOP OF MASONRY         |
| O.C.   | ON CENTERS SPACING     |
| T+B    | TOP AND BOTTOM         |
| F.F.E. | FINISH FLOOR ELEVATION |
| TYP.   | TYPICAL                |
| DEMO.  | DEMOLITION             |
| CONT.  | CONTINUOUS             |
| CMU    | CONCRETE MASONRY UNIT  |
| STD.   | STANDARD               |
| XS.    | EXTRA STRONG           |
| XXS.   | DOUBLE EXTRA STRING    |
| GALV.  | GALVANIZED             |
| HD     | HOLDDOWN               |
| WWF    | WIRE WELDED FABRIC     |
| RT     | ROOF TRUSS             |
| GT     | GIRDER TRUSS           |
| FLRT   | FLOOR TRUSS            |

**SHEAR WALL SCHEDULE**

EXTERIOR WALLS	INTERIOR DEMISING WALLS
7/16" APA RATED OSB SHEATHING. <b>BLOCK ALL UNSUPPORTED EDGES WITH 2x4 BLOCKS.</b> PROVIDE MIN 8d'S AT 6" O.C. AT ALL EDGES AND 12" O.C. AT FIELD	GYP-BOARD NAILED TO ALL FRAMING MEMBER AT 7" O.C. MAX. HORIZONTAL BLOCKS ARE NOT REQUIRED.

**STUD SCHEDULE**

SUPPORTING	EXTERIOR WALLS	INTERIOR NON BEARING WALLS
ROOF	(1) 2x4 @ 16" O.C.	(1) 2x4 @ 16" O.C.

**HEADER SCHEDULE**

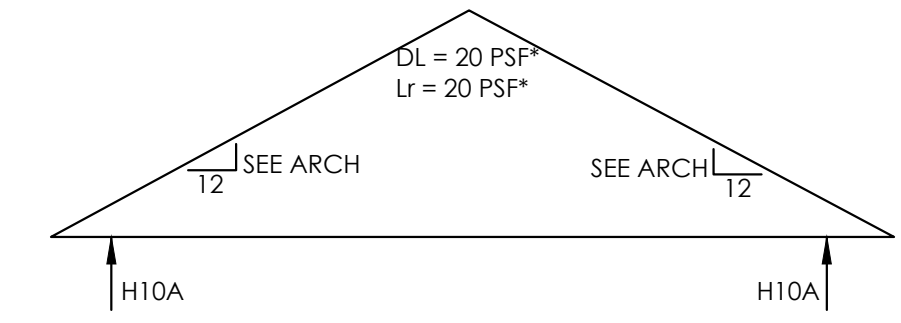
TYPE	SIZE	NOTES	SUPPORT
H1	(2) 1 3/4"x9 1/4" LVL	Fb = 2800 PSI, E= 2.0	(2) JACK + (2) KING

**HOLDOWN SCHEDULE (HD)**

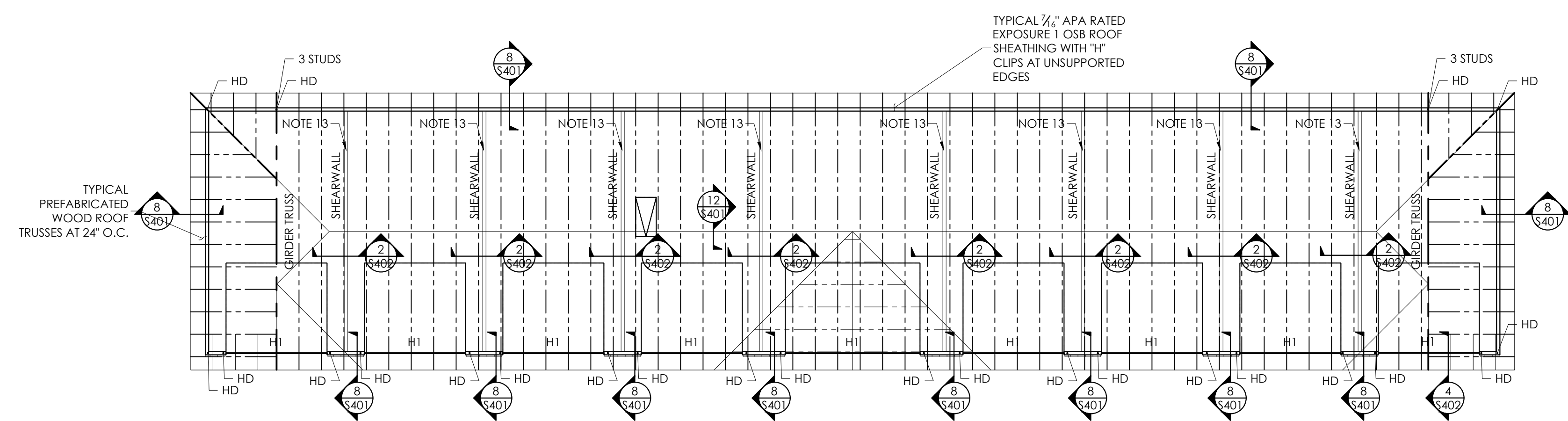
LOCATION	EXTERIOR WALLS
FOUNDATION	(1) SIMPSON HT4 TIE (2) STUDS TO FOUNDATION, DRILL AND EPOXY 5/8" THREADED ROD (7" EMBED)

1. HOLDDOWNS INDICATED IN TABLE SHALL BE USED AT ALL "HD" LOCATIONS ON THE PLANS.

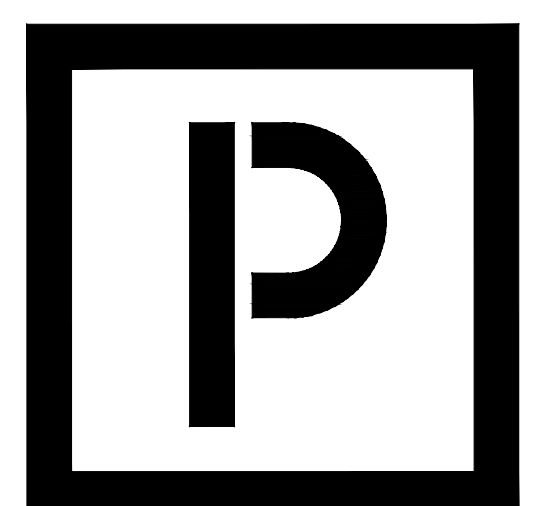
**ROOF TRUSS PROFILES**



TYP. ROOF TRUSS

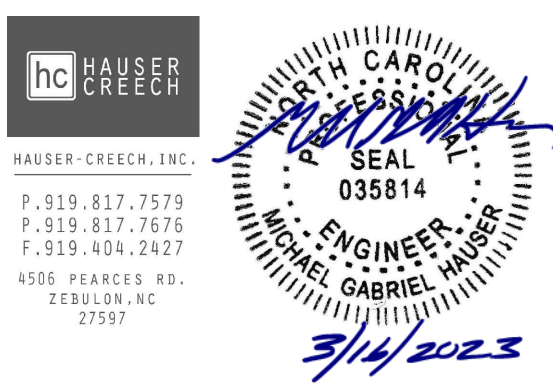


**Garage Building Roof Framing Plan**  
SCALE: 1/8"=1'-0"



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Fairway Point Garage Building

H&H Constructors, Inc.

Gallery Dr, Spring Lake, NC 28390

Issued For Permit Review

PROGRESS DATE:	03.16.2023
ISSUE DATE:	
REVISIONS NUMBER:	
INITIALS	DESCRIPTION
DATE	

PROJECT NO: 001123

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CHECKED BY: MGH

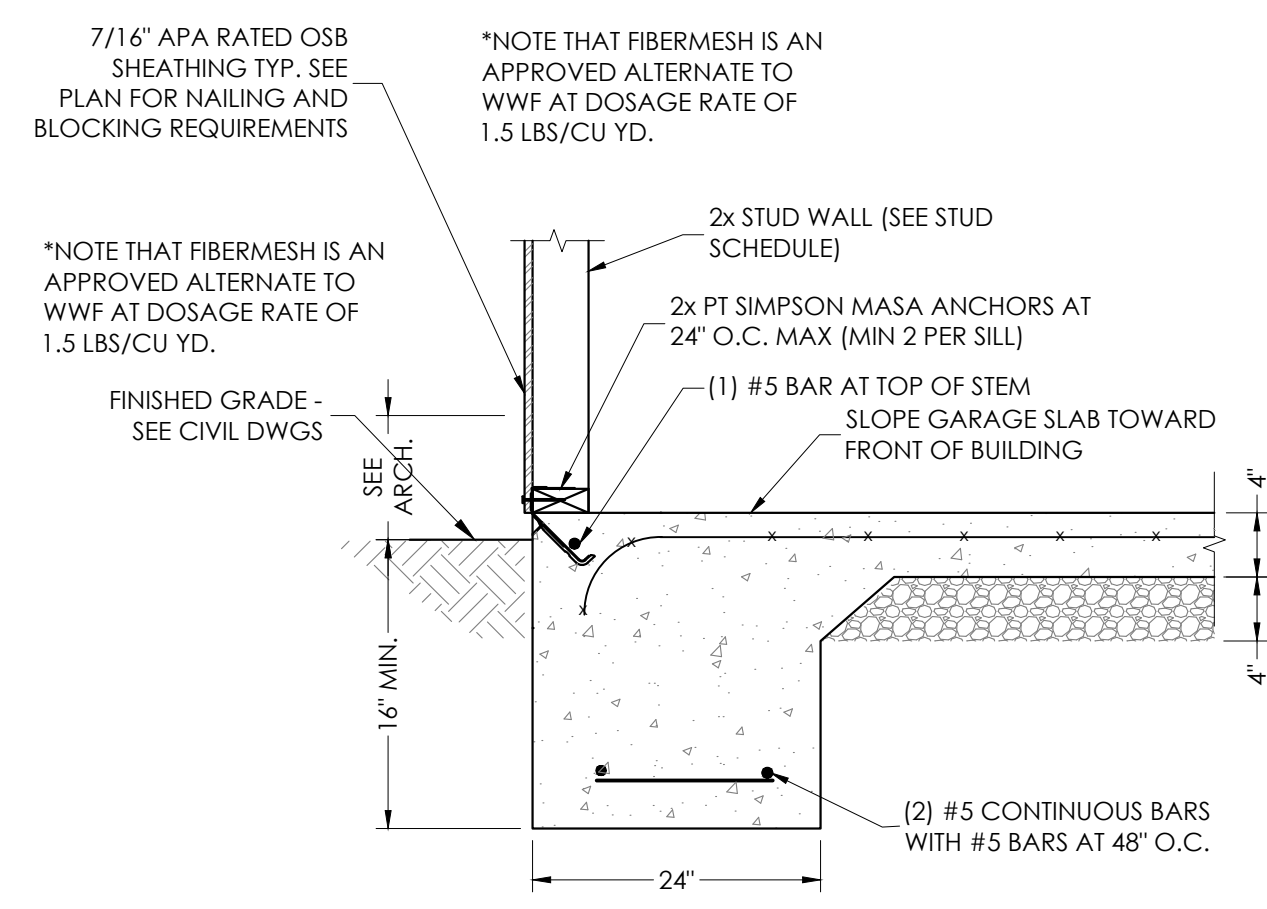
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Garage Building  
Roof Framing

SHEET NUMBER:

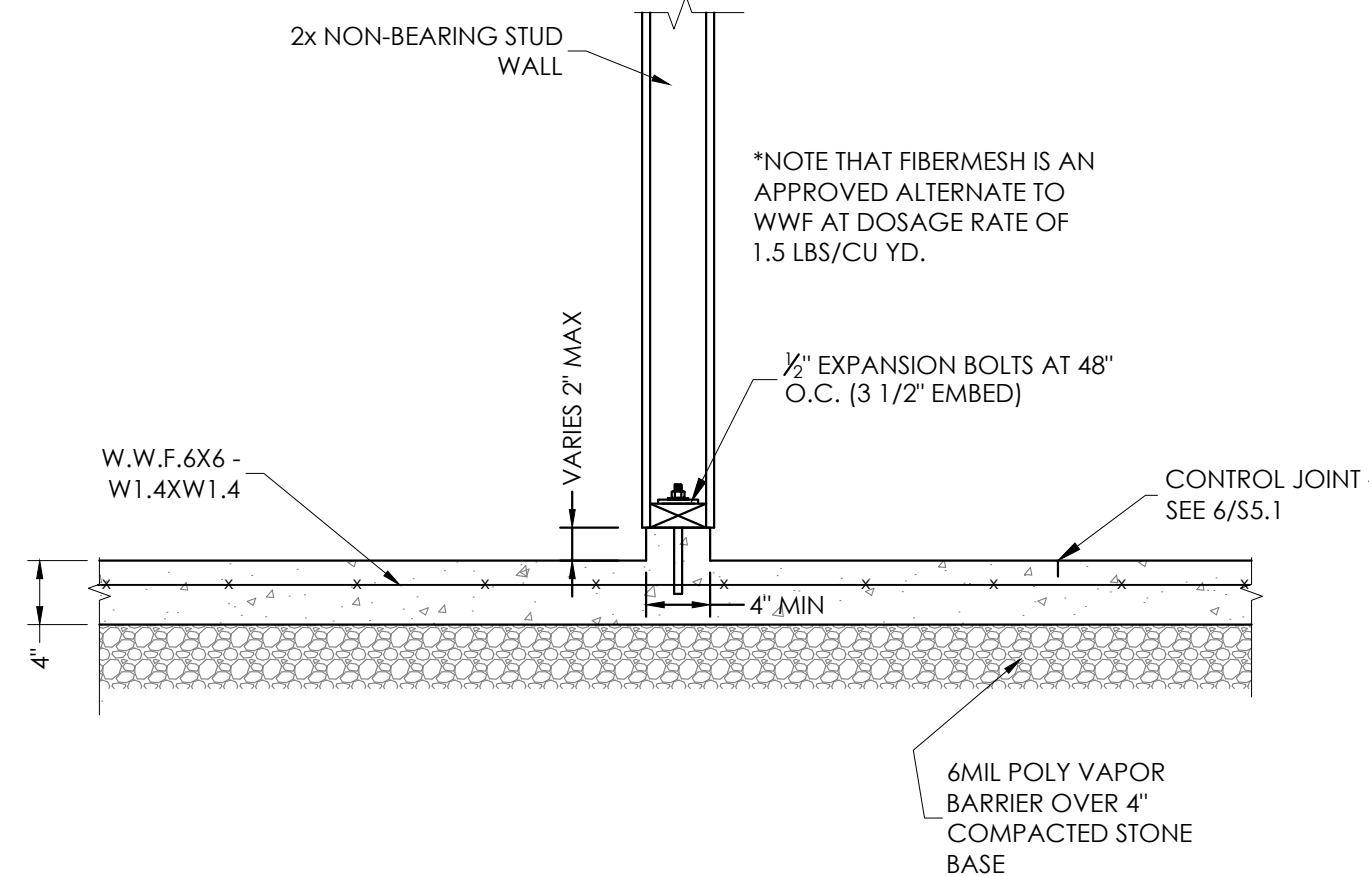
**S201**

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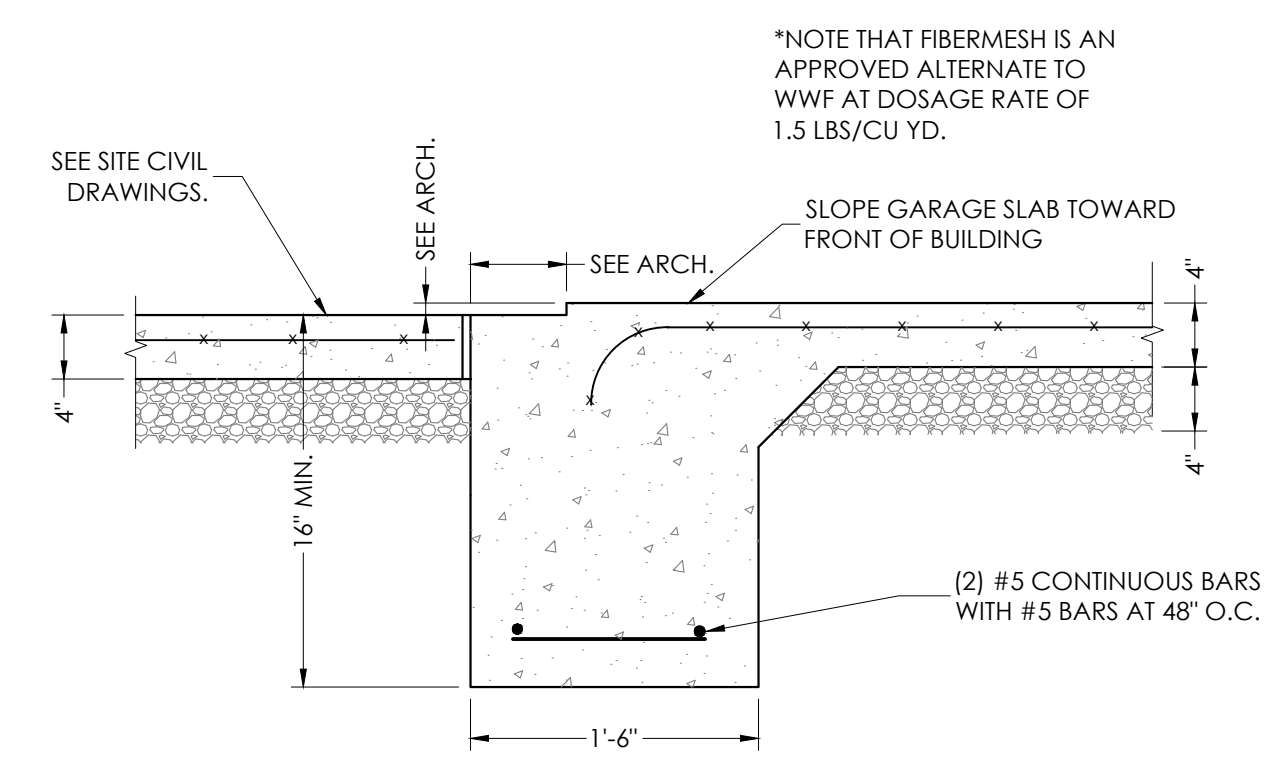




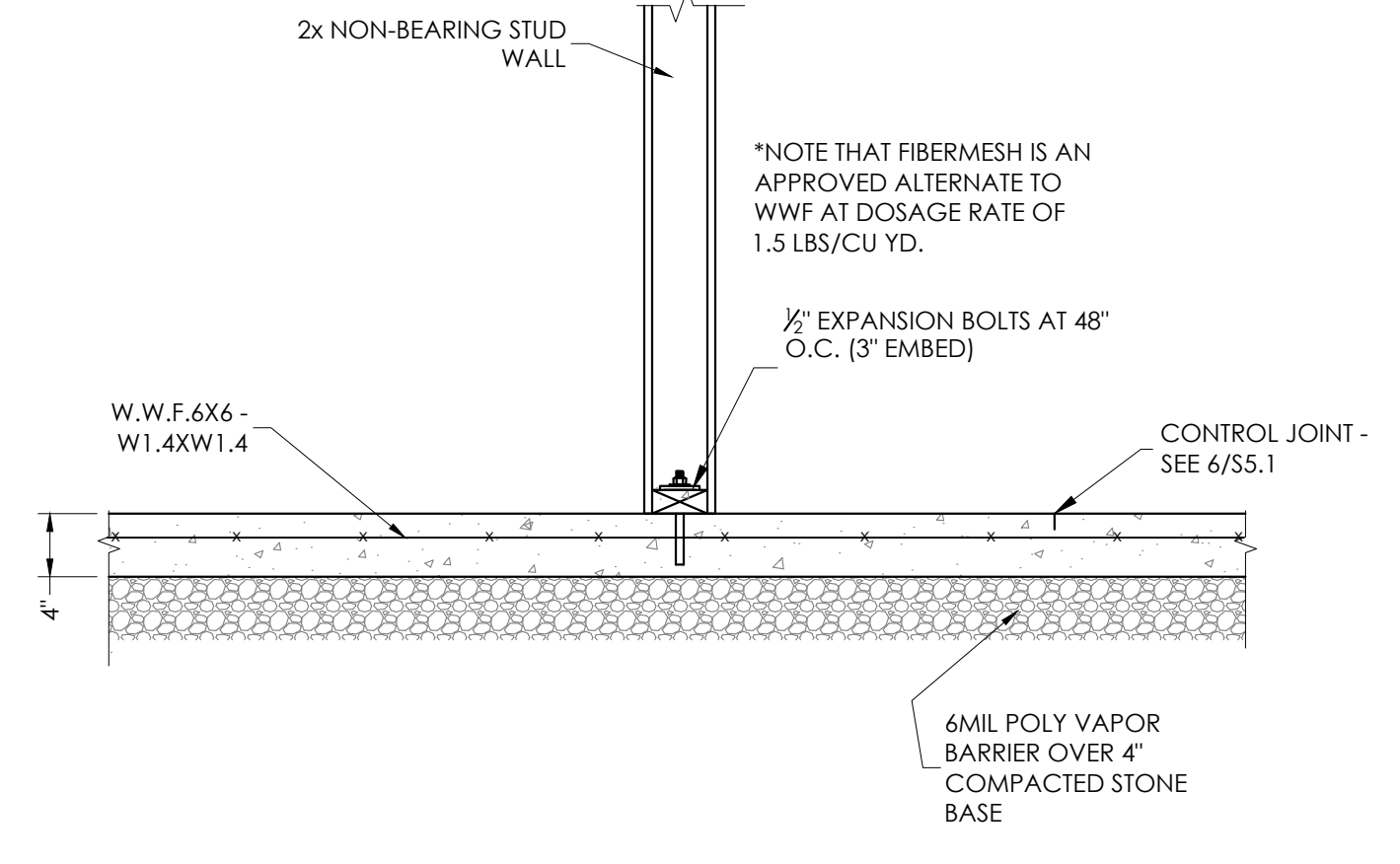
**1 TYP. EXTERIOR WALL SECTION**  
SCALE: NONE



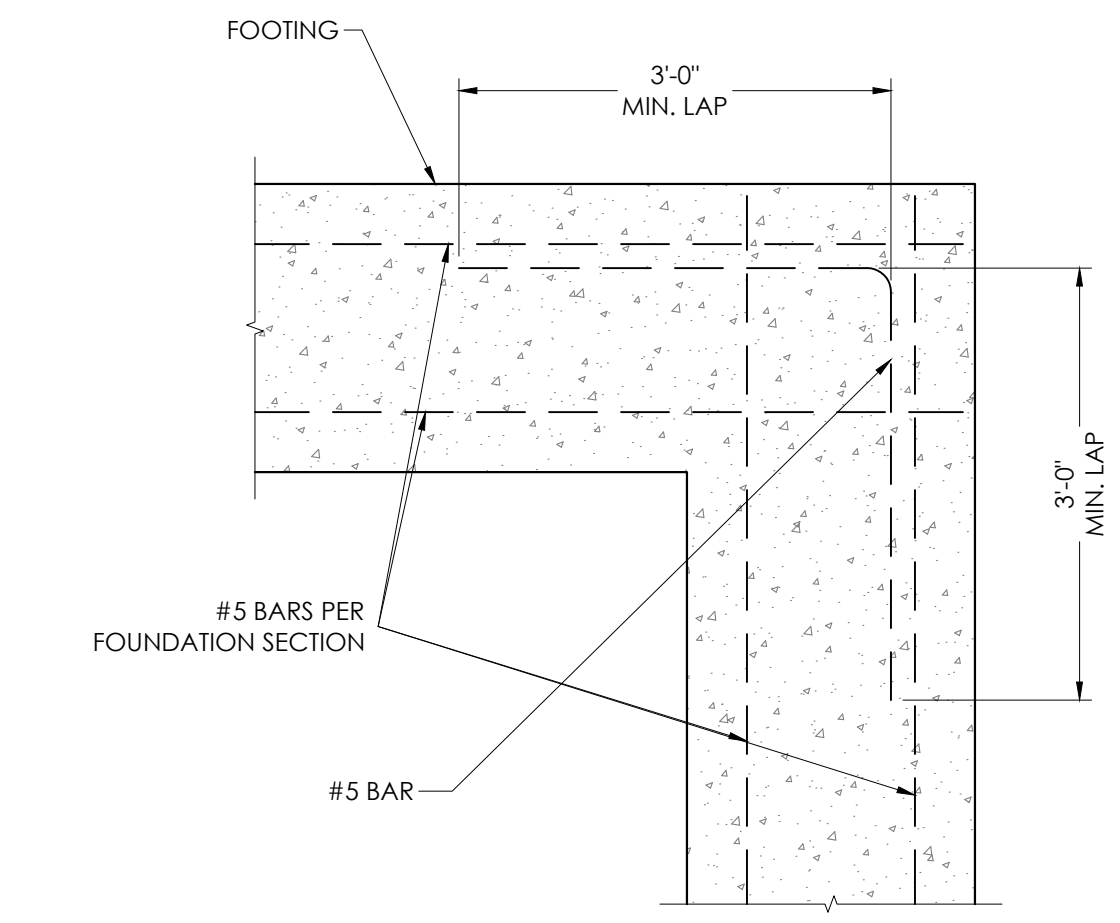
**2 GARAGE STEM WALL AT HANDICAP BAY**  
SCALE: NONE



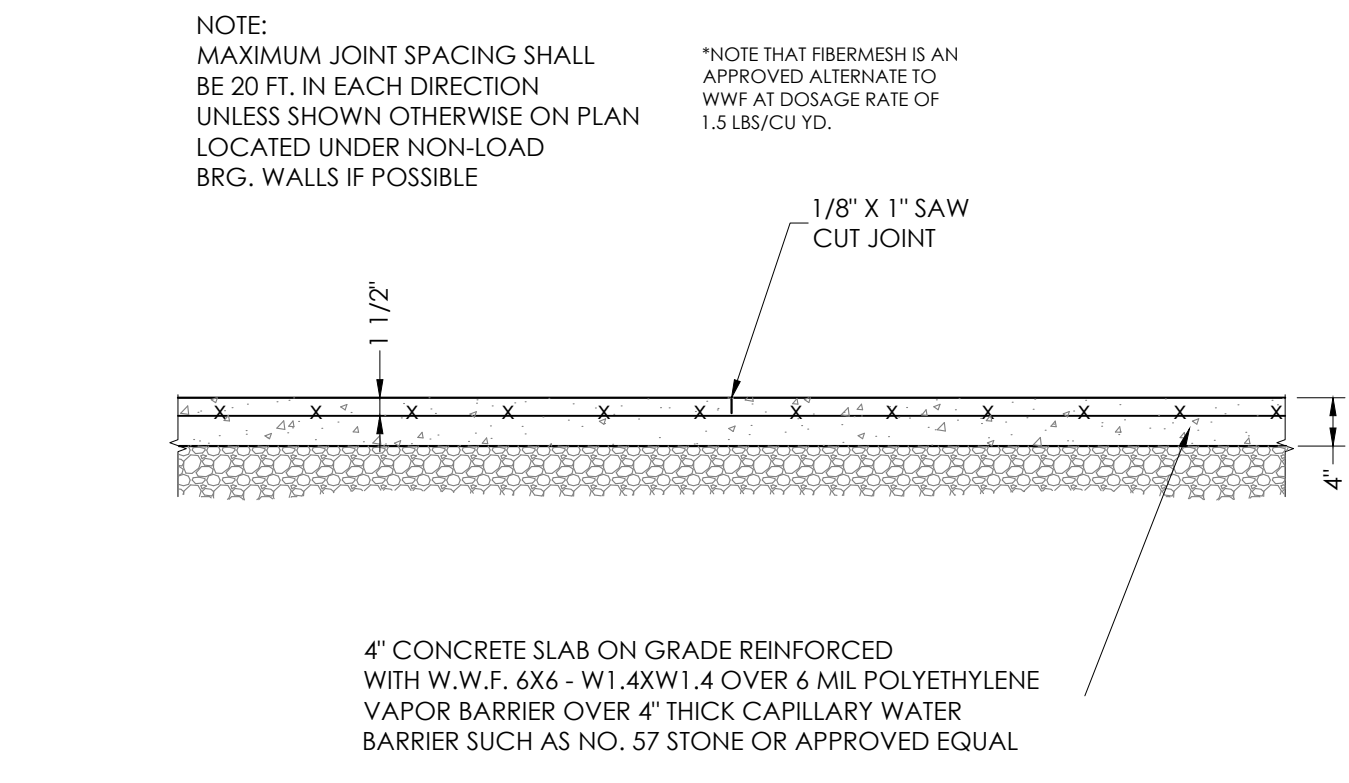
**3 GARAGE DOOR THRESHOLD**  
SCALE: NONE



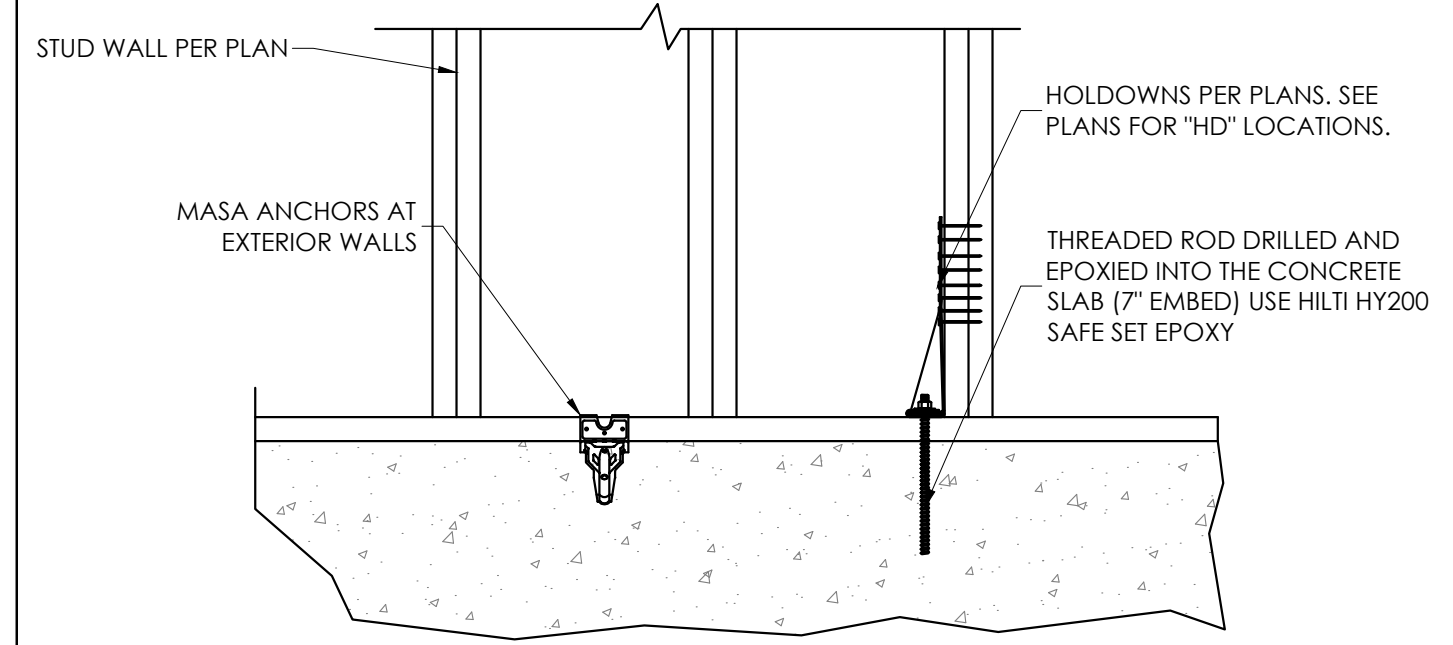
**4 TYPICAL GARAGE DEMISING WALL**  
SCALE: NONE



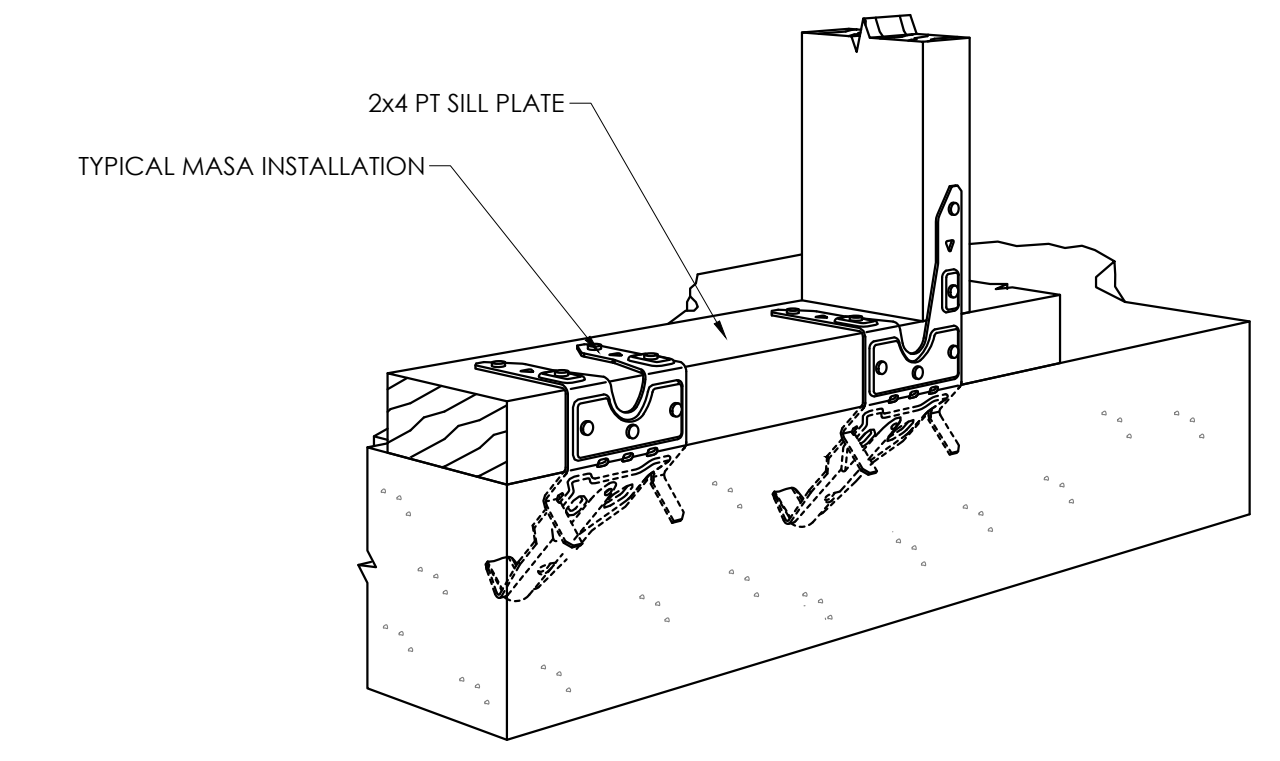
**5 CONTINUITY CORNER DETAIL**  
SCALE: NONE



**6 SLAB ON GRADE**  
SCALE: NONE



**7 ELEVATION OF WALL ANCHORAGE**  
SCALE: NONE



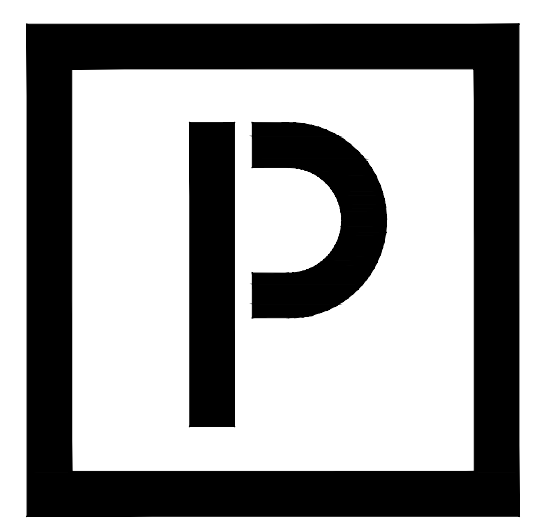
**8 PERSPECTIVE OF MASA INSTALLATION**  
SCALE: NONE

SCALE: NONE

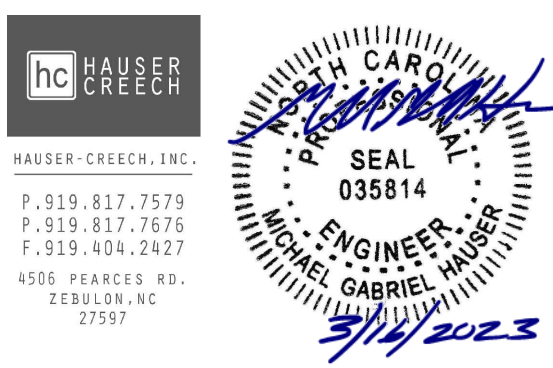
SCALE: NONE

SCALE: NONE

SCALE: NONE



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ARCHITECTURE  
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RALEIGH NC 27609  
website www.planworx.com



Fairway Point Garage Building  
H&H Constructors, Inc.  
Gallery Dr, Spring Lake, NC 28390  
Issued For Permit Review

PROGRESS DATE:	03.16.2023
ISSUE DATE:	
REVISIONS NUMBER:	
DATE:	
INITIALS:	
DESCRIPTION:	

PROJECT NO: 001123  
DRAWN BY: RA  
CHECKED BY: MGH

SHEET TITLE: Foundation Details

SHEET NUMBER:

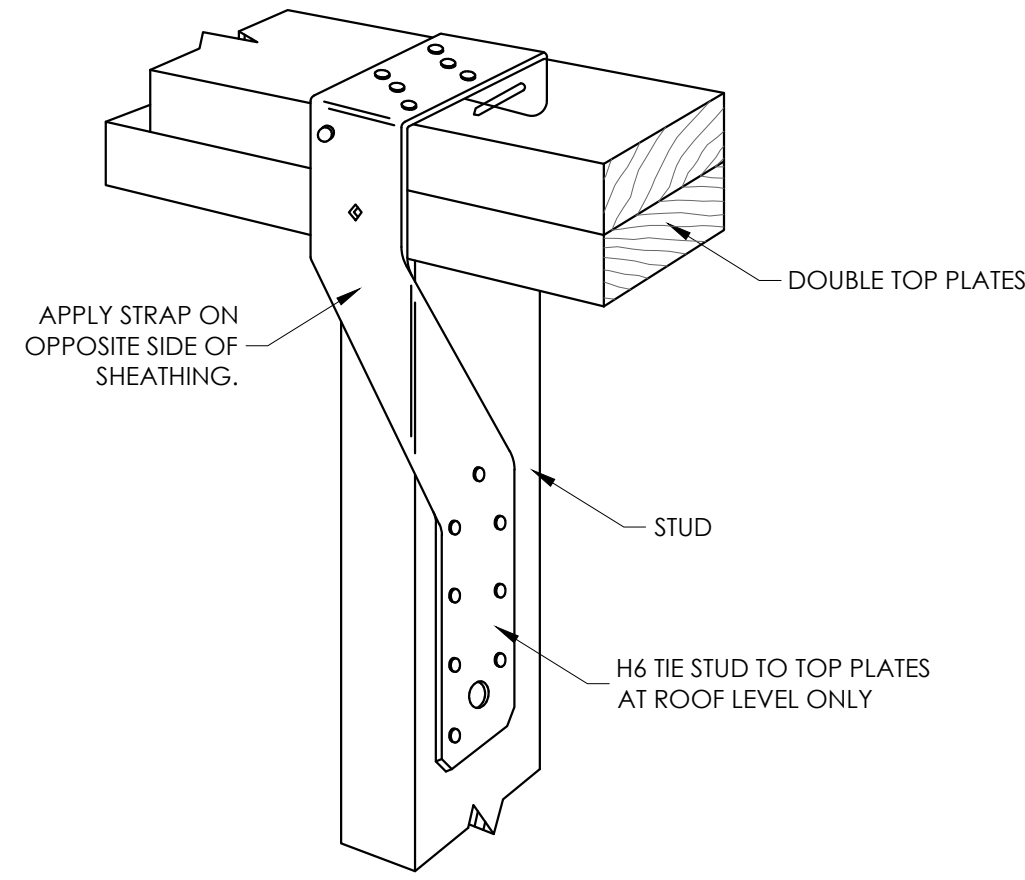
**S301**

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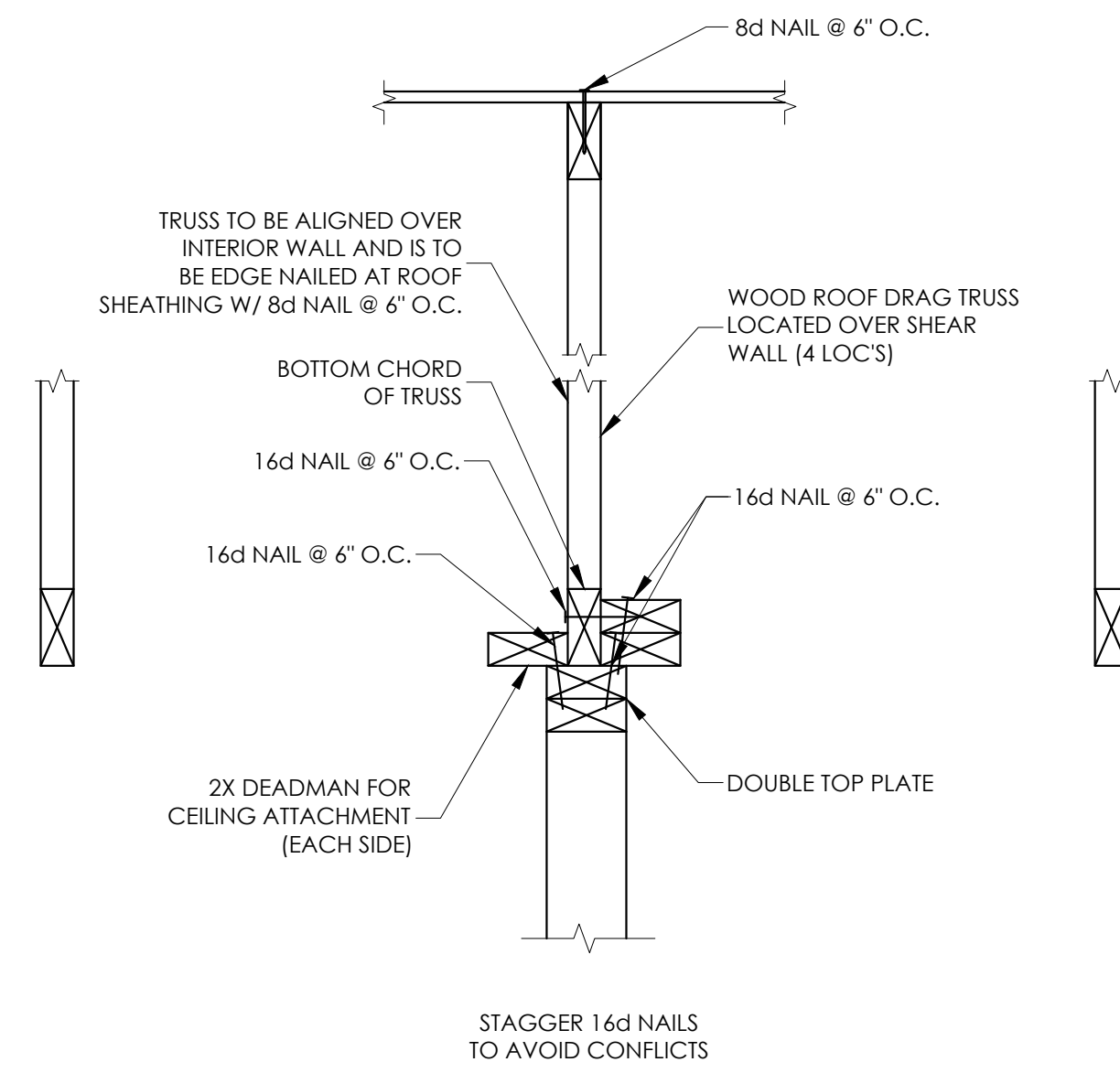




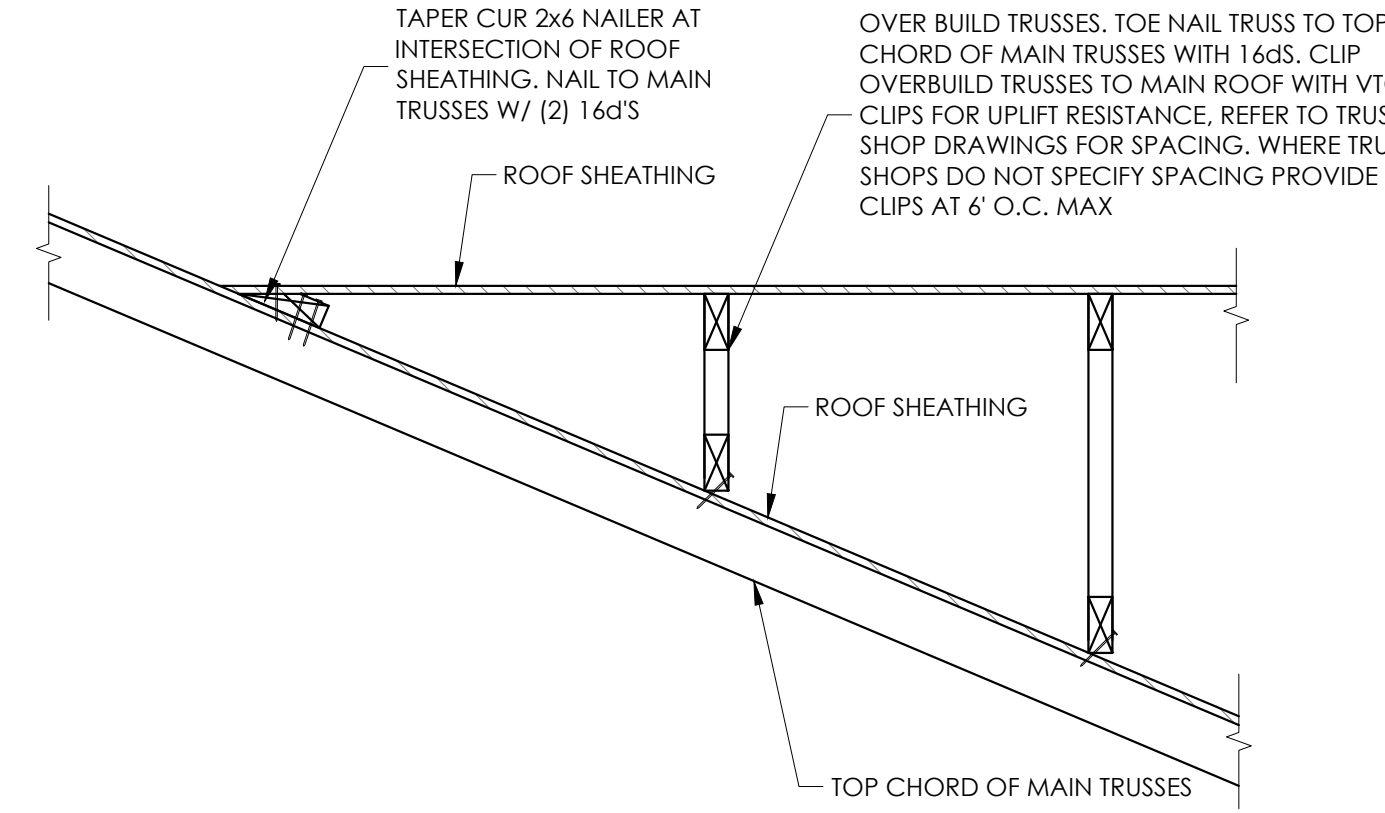




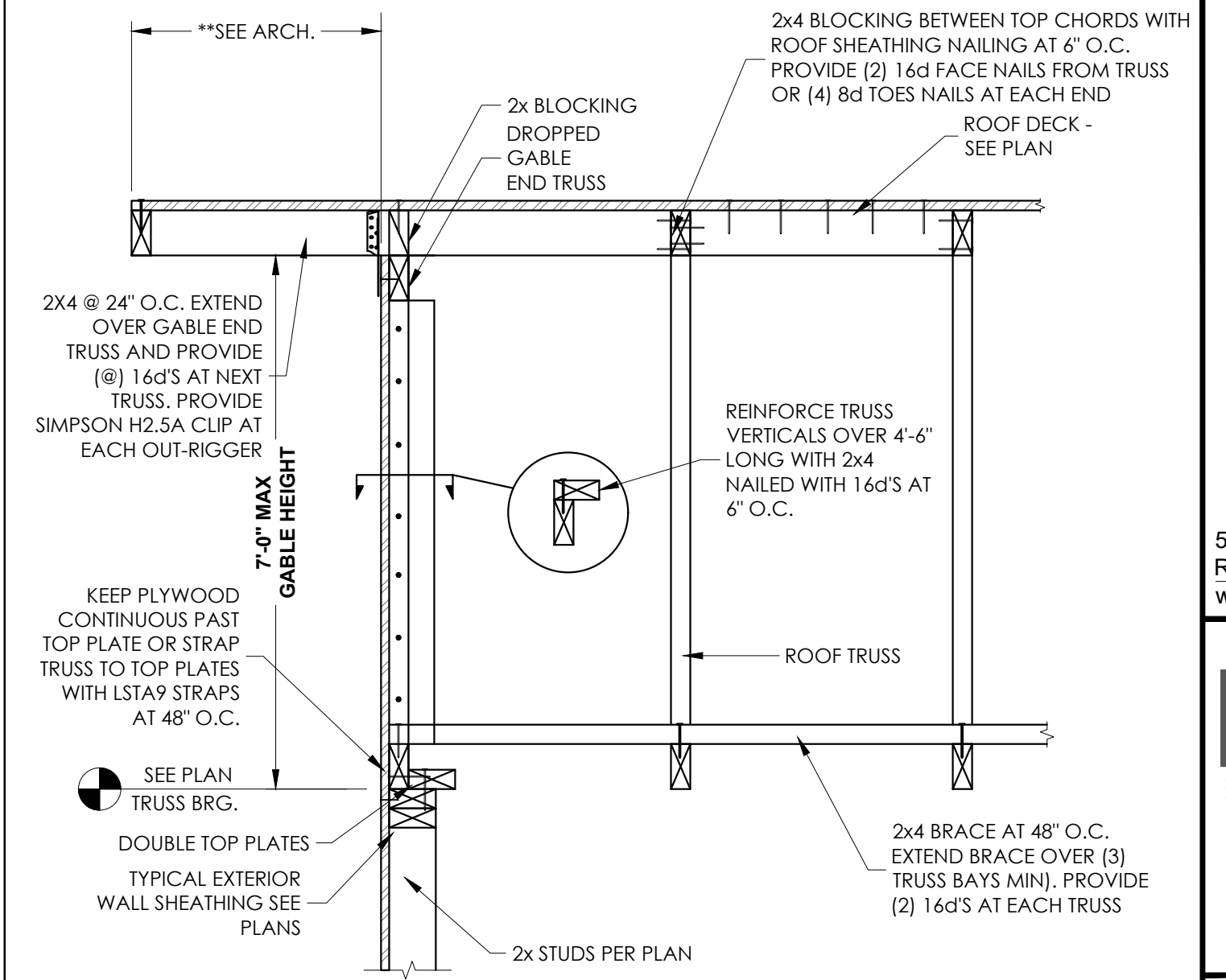
**1 H6 TIE ISOMETRIC**  
SCALE: NONE



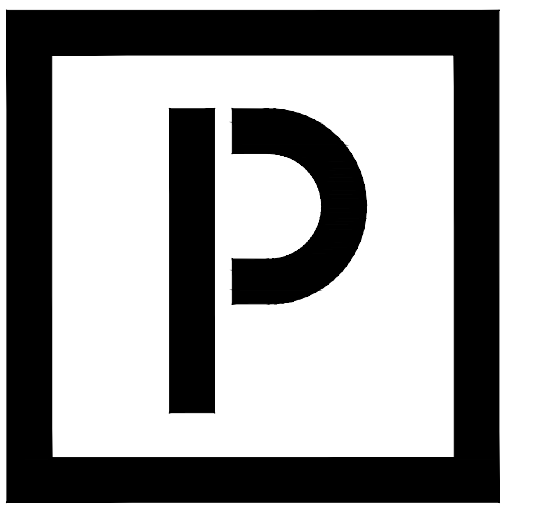
**2 TRUSS ATTACHMENT AT DEMISING WALL**  
SCALE: NONE



**3 TRUSS OVERBUILD**  
SCALE: NONE

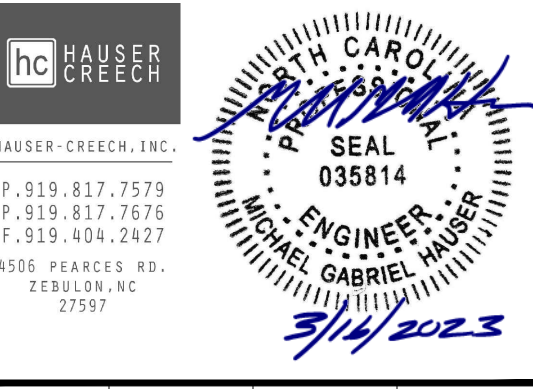


**4 GABLE TRUSS SECTION**  
SCALE: NONE



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Issued For Permit Review

PROGRESS DATE:	03.16.2023
ISSUE DATE:	
REVISIONS NUMBER	INITIALS DESCRIPTION
1	

PROJECT NO: 001123

DRAWN BY: RA

CHECKED BY: MGH

SHEET TITLE:

Framing Details

SHEET NUMBER:

**S402**

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**FOUNDATION NOTES:**

- FOUNDATION DESIGN IS BASED UPON AN ASSUMED SOIL BEARING VALUE OF 2000 PSF
- THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEO-TECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE BELOW THE FROST LINE OR 12" BELOW GRADE, WHICHEVER IS GREATER. [U.N.O.]
- WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 3" THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED OR CLEAN GRAVEL SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS.
- WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.

**REINFORCED CONCRETE:**

- ALL CONCRETE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," (ACI 318, 05)
- REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60)
- FOUNDATIONS AND SLAB-ON-GRADE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 P.S.I. (SEE CIVIL DRAWINGS FOR SITE CONCRETE) KEEP COPY OF CONC. TEST REPORTS ON SITE AT ALL TIMES.
- WALL COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 4000 P.S.I. (SEE CIVIL DRAWINGS FOR SITE CONCRETE) KEEP COPY OF CONC. TEST REPORTS ON SITE AT ALL TIMES
- LAP SPLICES FOR #5 REINFORCING BARS SHALL BE 36" MIN., AND #6 REINFORCING BARS SHALL BE 43" MIN., UNLESS SUBMITTED AND APPROVED OTHERWISE.
- CLEAR CONCRETE COVER FOR REINFORCING STEEL:  
WALLS: 3" CAST AGAINST GROUND  
FOOTINGS: 2" FORMED EDGES  
2" FORMED EDGES  
3" CAST AGAINST GROUND  
SLAB ON GRADE: MID-HEIGHT OF SLAB
- THE LONGITUDINAL REINFORCING STEEL IN WALLS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.
- SLUMP LIMIT IS 5 INCHES FOR CONCRETE WITH VERIFIED SLUMP OF 2 TO 4 INCHES BEFORE ADDING HIGH-RANGE WATER-REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE, PLUS OR MINUS 1 INCH
- AIR CONTENT: 6 PERCENT, PLUS OR MINUS 1.5 PERCENT AT POINT OF DELIVERY FOR 3/4-INCH NOMINAL MAXIMUM AGGREGATE SIZE. EXCEPTION TROWEL-FINISHED FLOOR SHALL NOT EXCEED 3 PERCENT.
- MAXIMUM COARSE-AGGREGATE SIZE: 3/4 INCH NOMINAL.
- PORTLAND CEMENT: ASTM C 150/C 150M, TYPE I.
- COLD-WEATHER PLACEMENT: COMPLY WITH ACI 306.1.
- HOT-WEATHER PLACEMENT: COMPLY WITH ACI 301.
- DESIGN, ERECT, SHORE, BRACE, AND MAINTAIN FORMWORK, ACCORDING TO ACI 301, TO SUPPORT VERTICAL, LATERAL, STATIC, AND DYNAMIC LOADS, AND CONSTRUCTION LOADS THAT MIGHT BE APPLIED, UNTIL STRUCTURE CAN SUPPORT SUCH LOADS. PLACE FORMWORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION INDICATED, WITHIN TOLERANCE LIMITS OF ACI 117. CHAMFER EXTERIOR CORNERS AND EDGES OF PERMANENTLY EXPOSED CONCRETE
- BEFORE PLACING CONCRETE, VERIFY THAT INSTALLATION OF FORMWORK, REINFORCEMENT, AND EMBEDDED ITEMS IS COMPLETE AND THAT REQUIRED INSPECTIONS ARE COMPLETED. DEPOSIT CONCRETE CONTINUOUSLY IN ONE LAYER OR IN HORIZONTAL LAYERS OF SUCH THICKNESS THAT NO NEW CONCRETE IS PLACED ON CONCRETE THAT HAS HARDENED ENOUGH TO CAUSE SEAMS OR PLANES OF WEAKNESS. IF A SECTION CANNOT BE PLACED CONTINUOUSLY, PROVIDE CONSTRUCTION JOINTS AS INDICATED. DEPOSIT CONCRETE TO AVOID SEGREGATION. CONSOLIDATE PLACED CONCRETE WITH MECHANICAL VIBRATING EQUIPMENT ACCORDING TO ACI 301.
- ALL CONCRETE SHALL BE VIBRATED BY MECHANICAL VIBRATORS.

**DESIGN INFORMATION:**

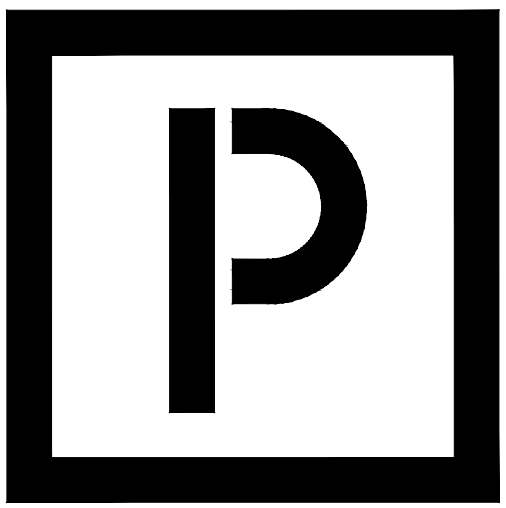
- ALL CONSTRUCTION SHALL CONFORM TO THE 2018 NORTH CAROLINA STATE BUILDING CODE AND ASCE 7-10
- DESIGN LOADS:  
DEAD AND LIVE LOADS  
ROOF LOADS  
TOP CHORD DEAD \_\_\_\_\_ 15 psf  
BOTTOM CHORD DEAD \_\_\_\_\_ 10 psf  
TOP CHORD LIVE \_\_\_\_\_ 20 psf  
BOTTOM CHORD LIVE \_\_\_\_\_ 10 psf (NON CONCURRENT WITH TOP CHORD LIVE)  
  
OCCUPANCY CATEGORY \_\_\_\_\_ II  
  
IMPORTANCE FACTORS  
I seismic \_\_\_\_\_ 1.0  
I snow \_\_\_\_\_ 1.0  
GROUND SNOW LOAD (pg) \_\_\_\_\_ 10 psf  
  
DESIGN WIND SPEED \_\_\_\_\_ Risk Cat II = 118 mph (ASCE 7-10)  
EXPOSURE \_\_\_\_\_ B  
  
SEISMIC DESIGN PARAMETERS  
S1 \_\_\_\_\_ 0.091  
Ss \_\_\_\_\_ 0.199  
SITE CLASS \_\_\_\_\_ D  
Scs \_\_\_\_\_ 0.212  
ScI \_\_\_\_\_ 0.146  
SEISMIC DESIGN CATEGORY \_\_\_\_\_ C
- ADDITIONAL LIVE LOADS PRESCRIBED IN ASCE7-10 RELATED TO ROOF ATTICS AND ROOF TRUSSES, INCLUDING LIMITED ACCESS STORAGE IN ATTICS SHALL APPLY TO PRE-FABRICATED TRUSSES, AND SHALL BE CLEARLY IDENTIFIED ON THE TRUSS SHOP DRAWINGS..
- THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- FOR LOCATION OF MISCELLANEOUS ITEMS (SUCH AS INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
- THIS PROJECT CONTAINS A SERIES OF DETAILS CONSIDERED "TYPICAL DETAILS". THESE SHALL APPLY AT ALL SITUATIONS THAT ARE THE SAME OR SIMILAR AS THESE DETAILS. THESE "TYPICAL DETAILS" SHALL APPLY WHETHER OR NOT THEY ARE INDICATED OR CUT AT EACH LOCATION.
- VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT AND ENGINEER OF ANY CONDITIONS WHICH DO NOT COMPLY WITH PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE WORKED WITH ARCHITECTURAL DRAWINGS.
- USE OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED. THE CONTRACTOR SHALL REVIEW AND STAMP DRAWINGS ACCORDINGLY PRIOR TO SUBMITTING TO THE ENGINEER. THE OMISSION OF ITEMS FROM SHOP DRAWINGS SHALL NOT RELIEVE CONTRACTOR OF RESPONSIBILITY OF FURNISHING AND INSTALLING ITEMS REGARDLESS OF WHETHER SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

**WOOD FRAMING (NOT INCLUDING PRE-FABRICATED TRUSSES):**

- ALL WOOD CONSTRUCTION SHALL CONFORM TO THE 2018 NORTH CAROLINA STATE BUILDING CODE AND TO THE NDS.
- ALL NAILING (UNLESS NOTED OTHERWISE) SHALL CONFORM TO THE 2018 NORTH CAROLINA STATE BUILDING CODE
- ALL STUDS, TOP PLATES AND SILL PLATES IN BEARING WALLS SHALL BE SPF NO. 2 OR BETTER OR SYP NO. 2 OR BETTER.
- ALL STUDS, TOP PLATES AND SILL PLATES IN NON-BEARING WALLS SHALL BE SPF STUD GRADE OR BETTER.
- ALL 2x NOMINAL HEADERS SHALL BE SPF NO. 2 OR BETTER OR SYP NO. 2 OR BETTER.
- ALL EXPOSED LUMBER SHALL BE PRESERVATIVE TREATED.
- FINGER JOINTED STUDS MAY BE USED IN INTERIOR APPLICATIONS PROVIDED THE STRUCTURAL PROPERTIES EQUAL OR EXCEED THAT OF THE SOLID SAWN LUMBER. FINGER JOINTED LUMBER SHALL NOT BE USED IN EXPOSED CONDITIONS.
- ALL CONNECTIONS IN EXPOSED LUMBER SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.
- ALL LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESERVATIVE TREATED.
- ALL MANUFACTURED LAMINATED VENEER LUMBER (LVL) SHALL HAVE A MODULUS OF ELASTICITY OF 2E6 psi AND A MINIMUM BENDING STRENGTH OF 2800 psi.
- UNDER NO CIRCUMSTANCE SHALL LAMINATED VENEER LUMBER BE USED IN AN EXPOSED CONDITION. WHERE MANUFACTURER LUMBER IS REQUIRED IN AN EXPOSED CONDITION THE CONTRACTOR MUST USED PRESERVATIVE TREATED GLU-LAMINATED LUMBER (GLB).

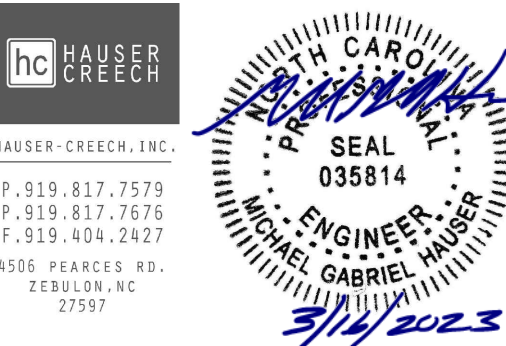
**WOOD TRUSSES:**

- IN ADDITION TO THE UNIFORM LOADING SPECIFIED FOR TRUSS DESIGN, THE TRUSS SUPPLIER SHALL INCLUDE ANY CONCENTRATED LOADS CAUSED BY ARCHITECTURAL FEATURES OR M. P&E EQUIPMENT OR MATERIALS AND BY SPRINKLER LOADS IN THE TRUSS DESIGN.
- TRUSSES SHALL BE DESIGNED BY A REGISTERED ENGINEER IN THE STATE OF NORTH CAROLINA AND SHOP DRAWINGS BEARING THE ENGINEER'S SEAL SHALL BE SUBMITTED FOR APPROVAL.
- TRUSSES SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH APPLICABLE STANDARDS OF THE TRUSS PLATE INSTITUTE.
- LIMIT LIVE LOAD DEFLECTION TO L/360. LIMIT TOTAL LOAD DEFLECTION TO L/240 OR 1" MAX.



**PLANWORX**  
ARCHITECTURE

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Fairway Point Garage Building  
 H&H Constructors, Inc.  
 Gallery Dr, Spring Lake, NC 28390  
 Issued For Permit Review

PROGRESS DATE:	03.16.2023
ISSUE DATE:	
REVISIONS NUMBER	INITIALS DESCRIPTION
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	

PROJECT NO: 001123

DRAWN BY: RA

CHECKED BY: MGH

SHEET TITLE:  
General Notes and Special Inspections

SHEET NUMBER:

**S501**

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**GENERAL ELECTRICAL NOTES**

- GENERAL REQUIREMENTS:**
  - ELECTRICAL CONTRACTOR IS TO FURNISH AND PAY FOR ALL LABOR, MATERIAL, EQUIPMENT, PERMITS & FEES REQUIRED FOR THE COMPLETE INSTALLATION OF ALL SYSTEMS IN THIS SECTION OF WORK.
  - ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH NEC AND ALL OTHER APPLICABLE CODES. EC IS TO COORDINATE W/ G.C. IN REGARDS TO PROJECT TIMELINE, WORK HOURS, AS WELL AS ANY BONDING OR INSURANCE REQUIREMENTS.
  - ALL ELECTRICAL & LIGHTING EQUIPMENT SHALL BE PROVIDED COMPLETE WITH ALL ACCESSORIES, HANGERS, SUPPORTS, CONTROLS, ETC FOR A FULLY FUNCTIONING SYSTEM REGARDLESS OF PRESENCE ON PLANS.
  - ALL EQUIPMENT, MATERIALS AND INSTALLATION SHALL BE GUARANTEED TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF WORK OR IN ACCORDANCE WITH THE MANUFACTURER'S STANDARD GUARANTEE, IF LONGER. EXISTING EQUIPMENT IS EXCLUDED FROM WARRANTY REQUIREMENT.
  - THESE DRAWINGS ARE DIAGRAMMATIC AND SHOW GENERAL LOCATION AND ARRANGEMENT OF ALL MATERIALS AND EQUIPMENT. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS BUILDING CONSTRUCTION AND ALL OTHER WORK WILL PERMIT.
  - DO NOT SCALE DRAWINGS FOR MEASUREMENT.
  - INFORMATION GIVEN IN SCHEDULES INCLUDES BOTH DESCRIPTION OF PRODUCT AND MANUFACTURER'S MODEL #. IF CONFLICT IS PRESENT BETWEEN DESCRIPTION AND MODEL #, EQUIPMENT DESCRIPTION SHALL TAKE PRECEDENT. IN CASE OF CONFLICT BETWEEN THE PLANS AND NOTES/SPECIFICATIONS OR CONFLICT BETWEEN INFORMATION PRESENTED ON THE PLANS OR IN THE NOTES/SPECIFICATIONS, THEN THE MOST RESTRICTIVE SHALL TAKE PRECEDENT.
  - BEFORE BID EC IS RESPONSIBLE FOR CLARIFYING W/ G.C. ANY CONFUSION IN REGARDS TO RESPONSIBILITY OF WORK TO BE PERFORMED OR MATERIALS TO BE PROVIDED, THE SUBMITTAL OF THE BID BY THE CONTRACTOR WILL BE HELD AS PROOF THAT THE CONTRACTOR UNDERSTANDS THOROUGHLY AND COMPLETELY THE SCOPE OF THE WORK INVOLVED, AND HAS INCLUDED ON THE BID ALL THE NECESSARY ITEMS TO CARRY OUT THIS SECTION OF WORK.
  - AS SOON AS POSSIBLE (AND NOT MORE THAN 30 DAYS) AFTER CONTRACT IS SIGNED, THE EC SHALL PROVIDE SUBMITTALS OF EQUIPMENT HE/SHE INTENDS TO PURCHASE FOR REVIEW AND COMMENT BY THE ENGINEER. ENGINEER IS TO APPROVE SUBMITTALS BEFORE EQUIPMENT IS ORDERED.
  - ALL QUESTIONS MUST BE SUBMITTED IN RFI FORMAT TO THE ARCHITECT AND MUST BE ADDRESSED BY THE APPROPRIATE DESIGNER OF RECORD PRIOR TO BECOMING A PROPOSED CHANGE ORDER.
  - E.C. IS TO REVIEW COMPLETE DRAWING SET. E.C. IS RESPONSIBLE FOR WORK EXPLICITLY SHOWN AND WORK IMPLIED, UNLESS OTHERWISE NOTED FINAL ELECTRICAL CONNECTION TO ALL EQUIPMENT, FURNITURE (I.E. CUBICLES, WORKSTATIONS, ETC) IS THE RESPONSIBILITY OF THE E.C..
- DIVISION OF WORK:**
  - ALL LOW VOLTAGE WIRING RELATED TO MECHANICAL EQUIPMENT AND SYSTEMS IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR (ANY LOW VOLTAGE FIRE ALARM WIRING TO BE BY E.C.). ALL HIGH VOLTAGE CONNECTIONS TO MECHANICAL EQUIPMENT, TO BE PROVIDED AND INSTALLED BY E.C. (SEE EQUIPMENT SCHEDULE FOR DISCONNECT RESPONSIBILITY).
  - G.C. TO BE RESPONSIBLE FOR PROVIDING AND INSTALLING ANY ACCESS DOORS (WALL, FLOOR, CEILING) RELATED TO ELECTRICAL SYSTEM. E.C. RESPONSIBLE FOR COMMUNICATING TO G.C. SIZE AND LOCATION OF REQ'D ACCESS DOOR(S).
  - ELECTRICAL CONTRACTOR IS TO EMPLOY THE SERVICES OF THE G.C. FOR CUTTING AND PATCHING OF WALLS, FLOORS & CEILINGS RELATED TO THE INSTALLATION OF ELECTRICAL EQUIPMENT & SYSTEMS.
  - G.C. RESPONSIBLE FOR PAINTING OF ANY EXPOSED CONDUIT, WIRE, BOXES ETC. E.C. RESPONSIBLE FOR CLEANING AND PREPARING ITEMS FOR PAINT, COORDINATE W/ G.C.
- MATERIALS:**
  - ALL MATERIAL, DEVICES, APPLIANCES, AND EQUIPMENT SHALL BE NEW UNLESS OTHERWISE NOTED AND SHALL CONFORM TO THE STANDARDS OF THE UNDERWRITERS LABORATORIES, INC., AND THE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.
  - PROVIDE HANGERS & SUPPORTS APPROVED FOR USE BY NEC.
  - ALL FIRE SEALANTS TO BE U.L. LISTED AND APPROVED FOR USE W/ APPROPRIATE U.L. PENETRATION DETAIL.
  - ELECTRICAL BOXES IN RATED WALLS MUST BE METAL OR LISTED FOR USE IN RATED WALLS. ONLY SINGLE AND DOUBLE GANG BOXES ARE TO BE USED IN RATED WALLS. LARGER BOXES ARE NOT ALLOWED AS THEY EXCEED THE 16 SQUARE INCH MAXIMUM BOX OPENING ALLOWED IN RATED WALLS PER NEC 300.21
  - CONDUCTORS SHALL BE COPPER RATED AT NOT LESS THAN 400 VOLTS MINIMUM SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED. ALL CONDUCTORS #10 AND SMALLER MAY BE SOLID OR STRANDED, UNLESS OTHERWISE NOTED. CONDUCTOR INSULATION SHALL BE TYPE THHN UNLESS OTHERWISE NOTED. ALL EXTERIOR CABLE OR OTHER WIRE EXPOSED TO SUNLIGHT SHALL BE RATED FOR EXTERIOR USE & SUNLIGHT RESISTANT.
  - ALL WIRING SHALL BE INSTALLED IN GALVANIZED RIGID CONDUIT, INTERMEDIATE METAL CONDUIT, OR EMT, EXCEPT AS ALLOWED BELOW. EMT SHALL NOT BE USED IN OR UNDER CONCRETE SLABS, OR IN MASSONRY WALLS. USE SCHEDULE 40 PVC OUTDOORS WHERE NOT SUBJECT TO PHYSICAL DAMAGE OR BELOW FLOOR SLAB. PVC NOT TO BE USED IN PATIENT CARE AREAS. MINIMUM CONDUIT SIZE TO BE 1/2". TYPE MC AND AC CABLE MAY BE USED WHERE PERMISSIBLE BY NEC. FUSIBLE CONDUIT SHALL BE USED FOR CONNECTIONS TO VIBRATING EQUIPMENT AND LUMINAIRES, BUT SHALL NOT EXCEED 6' IN LENGTH. NM & SER CABLE MAY BE USED IN CONSTRUCTION TYPES AND OCCUPANCIES ALLOWED BY NEC. NO NM OR SER CABLE MAY BE INSTALLED EXPOSED. ALL NM AND SER CABLE SHOULD BE PROTECTED FROM PHYSICAL DAMAGE AND INSTALLED IN ACCORDANCE WITH NEC 310.
  - METAL CONDUIT COUPLINGS TO BE COMPRESSION TYPE OR THREADED WHEN ACCESSIBLE TO BUILDING OCCUPANTS. METAL CONDUIT COUPLINGS MAY BE SET SCREW TYPE WHEN CONCEALED IN BUILDING STRUCTURE OR LOCATED MORE THAN 10' AFF. PLASTIC CONDUIT COUPLINGS TO BE SOCKET GLUED TYPE.
  - FUSES 0 - 400 AMPS SHALL BE UL CLASS "RK-1" LOW PEAK DUAL ELEMENT TIME DELAY WITH 200,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSSMANN, UNLESS NOTED OTHERWISE.
  - ALL TERMINALS/LUGS SHALL BE 40/75% RATED. ALL TERMINALS, SPLICING CONNECTORS, LUGS, ETC SHALL BE IDENTIFIED FOR USE WITH THE MATERIAL (CU/AL) OF THE CONDUCTOR AND SHALL BE PROPERLY INSTALLED.

- RECEPTACLES IN COMMERCIAL AREAS SHALL BE 20 AMP COMMERCIAL SPECIFICATION GRADE EQUAL TO HUBBELL SERIES. GROUND FAULT RECEPTACLES SHALL BE EQUAL TO COOPER VGF SERIES.
- LIGHTING SWITCHES IN COMMERCIAL AREAS SHALL BE 20 AMP COMMERCIAL SPECIFICATION GRADE EQUAL TO HUBBELL SERIES.
- ALL EXTERIOR FIXTURES AND DEVICES SHALL BE RATED FOR OPERATION AT 0° F AND SHALL BE DAMP OR WET LABELED AS REQUIRED.
- ANY MULTI-WIRE BRANCH CIRCUITS ARE TO PROVIDED WITH MULTI-POLE BREAKERS.
- COORDINATION:**
  - THE ELECTRICAL CONTRACTOR SHALL COORDINATE CLOSELY WITH ALL OTHER TRADES TO AVOID CONFLICT AND ENSURE OTHER TRADES PROVIDE MEASURES TO ACCOMMODATE ELECTRICAL WORK (I.E. ACCESS DOORS, SLAB/WALL/ROOF OPENINGS, ETC).
  - E.C. TO COORDINATE ELEVATION OF WALL MOUNTED LIGHTS (INTERIOR & EXTERIOR) W/ ARCHITECT/ARCH PLANS.
  - E.C. TO VERIFY ALL REQUIREMENTS AND COORDINATE EXACT LOCATION OF INCOMING ELECTRICAL SERVICE WITH LOCAL POWER COMPANY PRIOR TO PROJECT START-UP. NOTIFY ENGINEER OF ANY CHANGES AS MAY BE REQUIRED.
  - E.C. TO VERIFY DEVICE PLATE COLOR AND MATERIAL WITH ARCHITECT PRIOR TO PURCHASE.
- EXECUTION:**
  - E.C. TO FOLLOW MANUFACTURER'S INSTRUCTIONS WHEN INSTALLING ELECTRICAL EQUIPMENT. ENSURE REQUIRED MAINTENANCE ACCESS AND CLEARANCES ARE MAINTAINED. IF CONFLICT EXISTS BETWEEN THESE PLANS AND MFG INSTRUCTIONS CONTACT ENGINEER.
  - E.C. IS TO ENSURE THAT THEIR INSTALLATION OF NEW CONDUITS, PIPES, DUCTWORK, AND SIMILAR DOES NOT BLOCK ACCESS TO NEW OR EXISTING AREA EQUIPMENT AND THAT THE FORE MENTIONED DOES NOT INTERFERE WITH THE REQUIRED SERVICE CLEARANCE OF NEW OR EXISTING EQUIPMENT. COORDINATE WITH OTHER TRADE CONTRACTORS AND CONTACT ENGINEER IF UNCERTAINTY EXISTS REGARDING EQUIPMENT SERVICE CLEARANCE REQUIREMENTS.
  - A COMPLETE GROUNDING SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS.
  - PROVIDE A PULLWIRE IN ALL EMPTY CONDUITS.
  - PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES. WHITE LETTERS ON BLACK BACKGROUND.
  - ALL PENETRATIONS THROUGH EXTERIOR WALLS & ROOF SHALL BE FLASHED & COUNTER-FLASHED IN A WATERPROOF MANNER.
  - SEAL ALL PENETRATIONS OF SMOKE PARTITIONS OR FIRE RATED WALLS, CEILING, FLOORS IN ACCORDANCE W/ APPROPRIATE U.L. PENETRATION DETAIL AND NC BUILDING CODE.
  - PENETRATIONS OF NON-RATED WALLS, PARTITIONS AND FLOOR OF COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH MATERIALS EQUIVALENT TO TWO INCHES OF WOOD. FIRESTOPPING SHALL COMPLY WITH ASTM E-814.
  - ANY NOTCHING, DRILLING, BORING OR OTHER ALTERATION TO BUILDING STRUCTURE SHALL BE PERFORMED IN A CODE APPROVED METHOD AND NOT THREATEN THE INTEGRITY OF THE BUILDING STRUCTURE.
  - SUPPORT ALL CONDUIT AND EQUIPMENT IN ACCORDANCE W/ NEC. ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE. DO NOT ATTACH ANYTHING TO THE ROOF DECK.
  - PENETRATIONS OF ALL EXTERIOR WALLS, FLOORS AND CEILINGS SHALL BE SEALED IN AIR TIGHT MANNER AND IN ACCORDANCE W/ 2018 NCECC C402.5.1.1 FOR COMMERCIAL PROJECTS & 402.4.2 FOR RESIDENTIAL PROJECTS.
  - THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ELECTRICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.). UPON COMPLETION OF WORK THE ELECTRICAL CONTRACTOR SHALL CLEAN, WASH, ETC ALL ITEMS AND EQUIPMENT WITHIN HIS SCOPE OF WORK AND LEAVE ALL ITEMS BRIGHT AND CLEAN.
  - UNLESS OTHERWISE INDICATED THE ELECTRICAL CONTRACTOR AT HIS/HER DISCRETION MAY COMBINE MULTIPLE CIRCUITS INTO A SINGLE CONDUIT AND DE-RATE WIRE. COMBINING AND DE-RATING IS TO BE DONE IN STRICT ACCORDANCE W/ NEC.
  - DEVICES INCLUDING GFCI PROTECTION MUST HAVE THEIR TESTING MEANS READILY ACCESSIBLE. PROVIDE REMOTE TESTING MEANS OR GFCI BREAKER FOR GFCI RECEPTACLES AND SIMILAR DEVICES WHICH ARE NOT READILY ACCESSIBLE (I.E. BEHIND EQUIPMENT, AT CEILING, ETC.). (NEC 210.8).
  - RECEPTACLE, LIGHT SWITCHES AND OTHER CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE W/ ANSI A17.1 AND ADA REG'S CONCERNING HEIGHT AND ACCESSIBILITY. FHA REG'S TO BE FOLLOWED FOR MULTI-FAMILY AND RESIDENTIAL PROJECTS.
  - E.C. IS TO CONFIRM EXACT ELECTRICAL NAMEPLATE DATA OF ALL PLUMBING, MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, MCA, MOC.P. VOLTAGE & PHASE BEFORE BEGINNING WORK.
  - CEILING MOUNTED ELECTRICAL FIXTURES SHALL BE A MINIMUM OF 80 INCHES ABOVE THE FINISHED FLOOR UNLESS ABOVE COUNTERTOPS OR SIMILAR FIXED OBSTRUCTIONS.
  - ALL WORK IN/THROUGH REQUIRED FIRE RATED WALLS, BARRIERS, AND PARTITIONS SHALL COMPLY WITH 2018 NBC/C/IBC SEC 714. OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 1 1/4 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. AND 2018 NBC/C/IBC SEC 714.
  - BACK-TO-BACK BOXES IN 1 OR 2 HOUR RATED WALLS WITHIN 24" OF EACH OTHER SHALL BE PROTECTED BY (1) OF THE FOLLOWING, OR EQUAL: METACALKUX BOX GUARD (METAL BOXES ONLY), METACALKUX COVER GUARD, OR METACALKUX PUTTY PADS.
  - OPENINGS IN REQUIRED FIRE RATED WALLS, PARTITIONS, AND BARRIERS THAT REMAIN DUE TO DEMOLITION OF ELECTRICAL DEVICES AND SIMILAR SHALL BE PATCHED BACK IN A WAY THAT MAINTAINS THE FIRE RATING AND INTEGRITY OF THE ASSEMBLY.
  - CEILING MOUNTED OCCUPANCY SENSORS ARE TO BE MOUNTED AT LEAST 6'-0" FROM DIFFUSERS, GRILLES, FANS, AND OTHER SIMILAR SOURCES OF VIBRATION. COORDINATE INSTALLATION LOCATIONS WITH M.C..

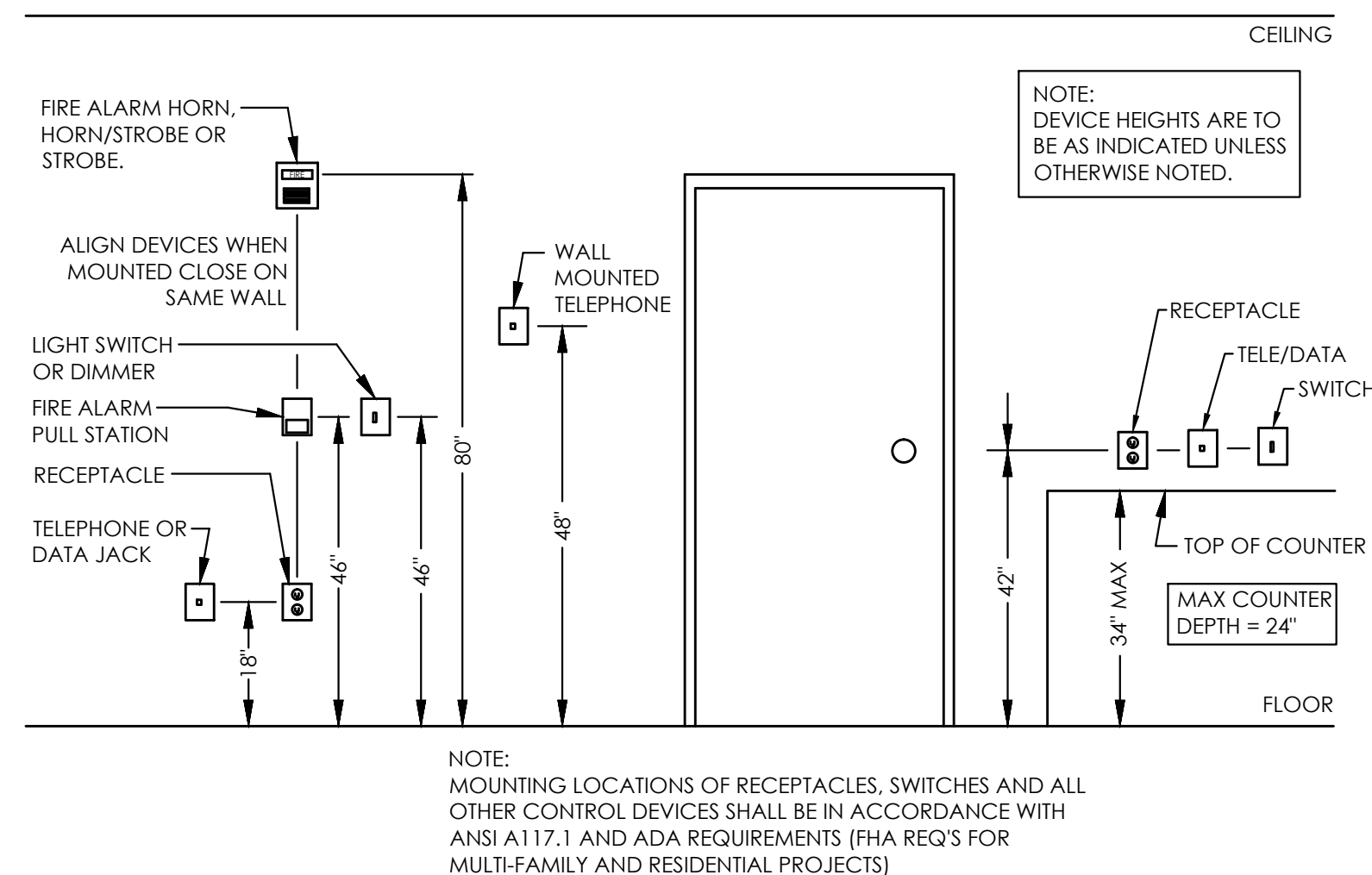
LIGHTING FIXTURE SCHEDULE											
MARK	MANUF.	CATALOG NUMBER	LAMP DATA		VOLTS	BALLAST DATA		INPUT WATTS	MOUNTING	DESCRIPTION	
			NO.	TYPE		NO.	TYPE				
A	LITHONIA	LBL4	-	LED	MVOLT	1	DRIVER	32	SURFACE	4' SURFACE MOUNTED LED WRAPAROUND LIGHT. NARROW HOUSING. ACRYLIC LENS. 4000 LUMENS. 3000K. INTEGRAL MOTION SENSOR "LSXR10".	
B	-	-	-	-	120	-	-	15W MAX	WALL	EXTERIOR RATED LED WALL SCONCE. COLOR TEMP TO MATCH EXISTING AREA EXTERIOR FIXTURES. SELECTED BY OTHERS. PROVIDED & INSTALLED BY E.C.. INCLUDE \$150/FIXTURE MAT'L ALLOWANCE IN BID.	
Z	-	-	1	13W LED	120	-	-	13	SURFACE	INCANDESCENT LAMP HOLDER W/ 100 W EQUIVALENT LED A19 BULB. PROVIDE "JELLY JAR" CONFIG. WHERE SUBJECT TO PHYSICAL DAMAGE.	

**LIGHTING SYSTEMS**  
NCECC SECTION C405 & C406

LIGHTING POWER DENSITY CALCULATION COMPLIANCE				DESIGNER STATEMENT:			
INTERIOR LIGHTING POWER DENSITY CALCULATION PER TABLE C405.4.2. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE INFORMATION.							
INTERIOR WATTAGE SPECIFIED VS. ALLOWED				301 VS. 516			
EXTERIOR LIGHTING POWER DENSITY CALCULATION PER TABLE C405.5.1. SEE LIGHTING FIXTURE SCHEDULE FOR FIXTURE INFORMATION.							
TRADABLE EXTERIOR WATTAGE SPECIFIED VS. ALLOWED				120 VS. 2280			
NONTRADABLE EXTERIOR WATTAGE SPECIFIED VS. ALLOWED				NA VS. NA			

ADDITIONAL PRESCRIPTIVE COMPLIANCE			
NOT APPLICABLE (RENOVATION PROJECT)	C406.5 ON-SITE RENEWABLE ENERGY		
C406.2 MORE EFFICIENT MECHANICAL EQUIPMENT	C406.6 DEDICATED OUTDOOR AIR SYSTEM		
C406.3 REDUCED LIGHTING POWER DENSITY	C406.7 REDUCED ENERGY USE IN SERVICE WATER HEATING		
C406.4 ENHANCED DIGITAL LIGHTING CONTROLS			

- PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS. PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES. WHITE LETTERS ON BLACK BACKGROUND.
- ALL PENETRATIONS THROUGH EXTERIOR WALLS & ROOF SHALL BE FLASHED & COUNTER-FLASHED IN A WATERPROOF MANNER.
- SEAL ALL PENETRATIONS OF SMOKE PARTITIONS OR FIRE RATED WALLS, CEILING, FLOORS IN ACCORDANCE W/ APPROPRIATE U.L. PENETRATION DETAIL AND NC BUILDING CODE.
- PENETRATIONS OF NON-RATED WALLS, PARTITIONS AND FLOOR OF COMBUSTIBLE CONSTRUCTION SHALL BE FIRESTOPPED WITH MATERIALS EQUIVALENT TO TWO INCHES OF WOOD. FIRESTOPPING SHALL COMPLY WITH ASTM E-814.
- ANY NOTCHING, DRILLING, BORING OR OTHER ALTERATION TO BUILDING STRUCTURE SHALL BE PERFORMED IN A CODE APPROVED METHOD AND NOT THREATEN THE INTEGRITY OF THE BUILDING STRUCTURE.
- SUPPORT ALL CONDUIT AND EQUIPMENT IN ACCORDANCE W/ NEC. ANY SUSPENDED MATERIALS SHALL BE DIRECTLY SUPPORTED BY THE BUILDING STRUCTURE. DO NOT ATTACH ANYTHING TO THE ROOF DECK.
- PENETRATIONS OF ALL EXTERIOR WALLS, FLOORS AND CEILINGS SHALL BE SEALED IN AIR TIGHT MANNER AND IN ACCORDANCE W/ 2018 NCECC C402.5.1.1 FOR COMMERCIAL PROJECTS & 402.4.2 FOR RESIDENTIAL PROJECTS.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ELECTRICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.). UPON COMPLETION OF WORK THE ELECTRICAL CONTRACTOR SHALL CLEAN, WASH, ETC ALL ITEMS AND EQUIPMENT WITHIN HIS SCOPE OF WORK AND LEAVE ALL ITEMS BRIGHT AND CLEAN.
- UNLESS OTHERWISE INDICATED THE ELECTRICAL CONTRACTOR AT HIS/HER DISCRETION MAY COMBINE MULTIPLE CIRCUITS INTO A SINGLE CONDUIT AND DE-RATE WIRE. COMBINING AND DE-RATING IS TO BE DONE IN STRICT ACCORDANCE W/ NEC.
- DEVICES INCLUDING GFCI PROTECTION MUST HAVE THEIR TESTING MEANS READILY ACCESSIBLE. PROVIDE REMOTE TESTING MEANS OR GFCI BREAKER FOR GFCI RECEPTACLES AND SIMILAR DEVICES WHICH ARE NOT READILY ACCESSIBLE (I.E. BEHIND EQUIPMENT, AT CEILING, ETC.). (NEC 210.8).
- RECEPTACLE, LIGHT SWITCHES AND OTHER CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE W/ ANSI A17.1 AND ADA REG'S CONCERNING HEIGHT AND ACCESSIBILITY. FHA REG'S TO BE FOLLOWED FOR MULTI-FAMILY AND RESIDENTIAL PROJECTS.
- E.C. IS TO CONFIRM EXACT ELECTRICAL NAMEPLATE DATA OF ALL PLUMBING, MECHANICAL AND ELECTRICAL EQUIPMENT INCLUDING, BUT NOT LIMITED TO, MCA, MOC.P. VOLTAGE & PHASE BEFORE BEGINNING WORK.
- CEILING MOUNTED ELECTRICAL FIXTURES SHALL BE A MINIMUM OF 80 INCHES ABOVE THE FINISHED FLOOR UNLESS ABOVE COUNTERTOPS OR SIMILAR FIXED OBSTRUCTIONS.
- ALL WORK IN/THROUGH REQUIRED FIRE RATED WALLS, BARRIERS, AND PARTITIONS SHALL COMPLY WITH 2018 NBC/C/IBC SEC 714. OPENINGS FOR INSTALLATION OF BOXES THAT ARE GREATER THAN 1 1/4 SQUARE INCHES SHALL BE PROTECTED AS REQUIRED BY U.L. AND 2018 NBC/C/IBC SEC 714.
- BACK-TO-BACK BOXES IN 1 OR 2 HOUR RATED WALLS WITHIN 24" OF EACH OTHER SHALL BE PROTECTED BY (1) OF THE FOLLOWING, OR EQUAL: METACALKUX BOX GUARD (METAL BOXES ONLY), METACALKUX COVER GUARD, OR METACALKUX PUTTY PADS.
- OPENINGS IN REQUIRED FIRE RATED WALLS, PARTITIONS, AND BARRIERS THAT REMAIN DUE TO DEMOLITION OF ELECTRICAL DEVICES AND SIMILAR SHALL BE PATCHED BACK IN A WAY THAT MAINTAINS THE FIRE RATING AND INTEGRITY OF THE ASSEMBLY.
- CEILING MOUNTED OCCUPANCY SENSORS ARE TO BE MOUNTED AT LEAST 6'-0" FROM DIFFUSERS, GRILLES, FANS, AND OTHER SIMILAR SOURCES OF VIBRATION. COORDINATE INSTALLATION LOCATIONS WITH M.C..



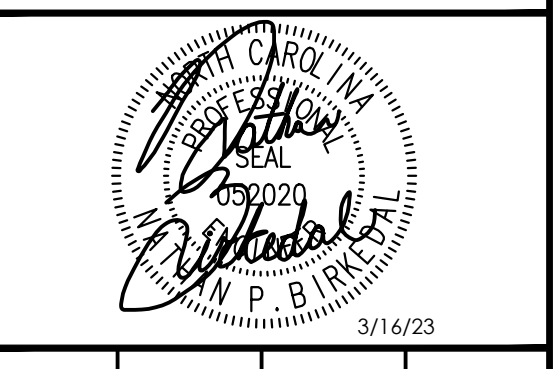
**1 TYPICAL DEVICE MOUNTING HEIGHTS**  
NO SCALE

**ELECTRICAL SYMBOL LEGEND**

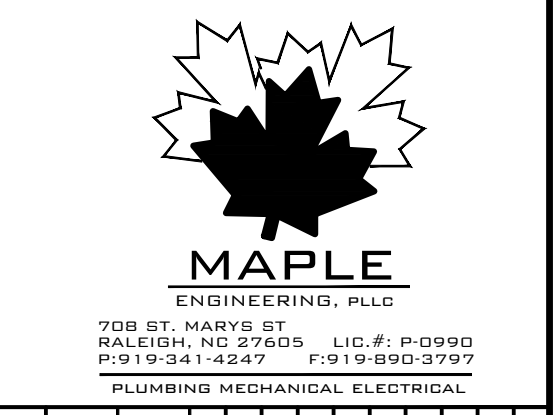
- CIRCUIT CONDUCTORS CONCEALED IN FLOOR, WALL OR CEILING.
- ARROWHEAD INDICATES HOMERUN TO PANEL NOTED.
- INDICATES HOT LEG OF CIRCUIT TO BE CARRIED OVER TO NEXT DEVICE. SEE PLANS FOR CONTROL SCHEME.
- JUNCTION BOX CEILING MOUNTED.
- JUNCTION BOX FLOOR MOUNTED.
- JUNCTION BOX WALL MOUNTED AT HEIGHT INDICATED ON DRAWINGS.
- SINGLE POLE SWITCH, 20A, 120/277 VOLT, 48" A.F.F. TO CENTER.
  - "3" INDICATES 3-WAY SWITCH.
  - "4" INDICATES 4-WAY SWITCH.
  - "D" INDICATES DIMMER SWITCH OF TYPE TO SUIT LOAD.
  - "M" INDICATES 120V, 20A MOTOR RATED TOGGLE SWITCH.
  - "DP" INDICATES DOUBLE POLE
- INDICATES FLUORESCENT FIXTURES DUAL SWITCHED, INBOARD/OUTBOARD SWITCHED SEPARATELY.
- SINGLE RECEPTACLE, 20 AMP, 120 VOLT, 18" A.F.F. TO CENTER.
- DUPLEX RECEPTACLE, 20 AMP (15 AMP RESIDENTIAL, UON), 120 VOLT, 18" A.F.F. TO CENTER.
  - "GF" INDICATES GROUND FAULT CIRCUIT INTERRUPTER TYPE.
  - "WP" INDICATES WEATHERPROOF.
  - "EW" INDICATES RECEPTACLE INSIDE ENCLOSURE OF ELECTRIC WATER COOLER PROVIDE GFI BREAKER FOR CIRCUIT.
  - "ASW" INDICATES ABOVE SHOW WINDOW, PER NEC SHOW WINDOW REQ'S.
- QUADRUPLEX RECEPTACLE, AS ABOVE, 18" A.F.F.
- DUPLEX RECEPTACLE, AS ABOVE, SPLIT WIRED, TOP HALF SWITCHED, 18" A.F.F.
- DUPLEX RECEPTACLE, AS ABOVE, MOUNTED 6" ABOVE COUNTER TOP OR 4" ABOVE BACKSPLASH, AS APPROPRIATE, OR AT HEIGHT INDICATED.
- DUPLEX RECEPTACLE, AS ABOVE, MOUNTED 6" ABOVE COUNTER TOP OR 4" ABOVE BACKSPLASH, AS APPROPRIATE, OR AT HEIGHT INDICATED, WITH GFI PROTECTION.
- RECESSED FLUSH FLOOR DUPLEX RECEPTACLE WITH BRASS COVERPLATE. COORDINATE EXACT FINISH WITH ARCHITECT AND OWNER.
- 208V RECEPTACLE, SEE PLANS FOR NEMA CONFIGURATION.
- TELEPHONE/DATA OUTLET, 18" A.F.F. TO CENTER OR ALIGN MOUNTING HEIGHT WITH ADJACENT DEVICE, UNLESS OTHERWISE NOTED. COORDINATE EXACT DEVICE TYPE AND REQUIRED FACEPLATE W/ OWNER/TENANT.
- HEAVY DUTY FUSIBLE/NON-FUSIBLE DISCONNECT SWITCH, NUMBERS INDICATE FRAME SIZE, NUMBER OF POLES AND FUSING. PROVIDE NEMA 1 ENCLOSURE INSIDE. PROVIDE NEMA 3 ENCLOSURE FOR ALL SWITCHES LOCATED OUTSIDE.
  - "FPN" INDICATES FUSE PER EQUIPMENT NAMEPLATE
  - "NF" INDICATES NON-FUSED.
  - "MS" INDICATES MOTOR STARTER OF TYPE TO SUIT LOAD.
- 208Y/120V PANEL, SURFACE OR RECESS MOUNTED, SEE SCHEDULE FOR DETAILS.
- 480Y/277V PANEL, SURFACE OR RECESS MOUNTED, SEE SCHEDULE FOR DETAILS.
- FAN, PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR. PROVIDE DISCONNECTING MEANS AS REQUIRED.
- RECESSED MOUNTED 2x4 FLUORESCENT TROFFER. SEE FIXTURE SCHEDULE FOR DETAILS.
- TRACK LIGHTING FIXTURE. SEE FIXTURE SCHEDULE FOR DETAILS.
- SURFACE MOUNTED FLUORESCENT STRIP. SEE FIXTURE SCHEDULE FOR DETAILS.
- WALL MOUNTED LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DETAILS.
- SURFACE, RECESSED OR GROUND MOUNTED LIGHTING FIXTURE, SEE FIXTURE SCHEDULE FOR DETAILS.
- ELECTRIC UTILITY METER LOCATION.
- KITCHEN EQUIPMENT TAG.
- DEMO'D LIGHT FIXTURE OR SIMILAR.
- DEMO'D RECEPTACLE OR SIMILAR.
- CABLE TV OUTLET, 18" A.F.F. TO CENTER, UNLESS OTHERWISE NOTED.

**ELECTRICAL ABBREVIATIONS**

18"	DIMENSION INDICATES HEIGHT ABOVE FINISHED FLOOR AT WHICH CENTER OF DEVICE IS TO BE MOUNTED.
AFF	ABOVE FINISHED FLOOR.
AFG	ABOVE FINISHED GRADE.
E.C.	ELECTRICAL CONTRACTOR.
FPN	FUSE PER EQUIPMENT NAMEPLATE REQUIREMENTS.
G.C.	GENERAL CONTRACTOR.
M.C.	MECHANICAL CONTRACTOR.
P.C.	PLUMBING CONTRACTOR.
WP	INDICATES DEVICE TO HAVE WEATHERPROOF COVER.
UON	UNLESS OTHERWISE NOTED.
FACP	FIRE ALARM CONTROL PANEL.
SMP	SPRINKLER MONITORING PANEL.
NL	NIGHT LIGHT, LIGHT NOT SWITCHED.



**Fairway Point Garage Building**  
**H&H Constructors, Inc.**  
 Gallery Dr, Spring Lake, NC 28390  
 Issued For Permit Review



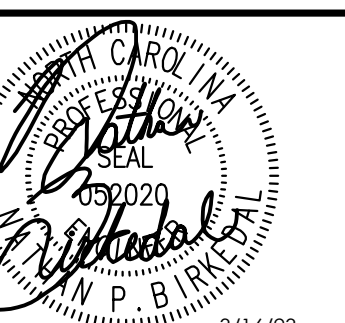
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ISSUE DATE:	
REVISIONS:	
NUMBER	
DATE	
INITIALS	
DESCRIPTION	
PROJECT NO:	001123
DRAWN BY:	KNB
CHECKED BY:	NPB
SHEET TITLE:	<b>ELECTRICAL SCHEDULES AND NOTES</b>
SHEET NUMBER:	<b>E001</b>





PLANWORX ARCHITECTURE

5711 SIX FORKS ROAD, SUITE 100  
RALEIGH NC 27609



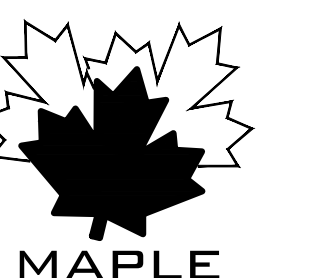
3/16/23

Fairway Pointe Garage Building

H+H Constructors, Inc.

135 Gallery Dr, Spring Lake, NC 28390

Issued For Permit Review



708 ST. MARKS ST.  
RALEIGH, NC 27605 U.S. #1-919-999-  
P.312-341-4247 F.312-852-3797  
PLUMBING MECHANICAL ELECTRICAL

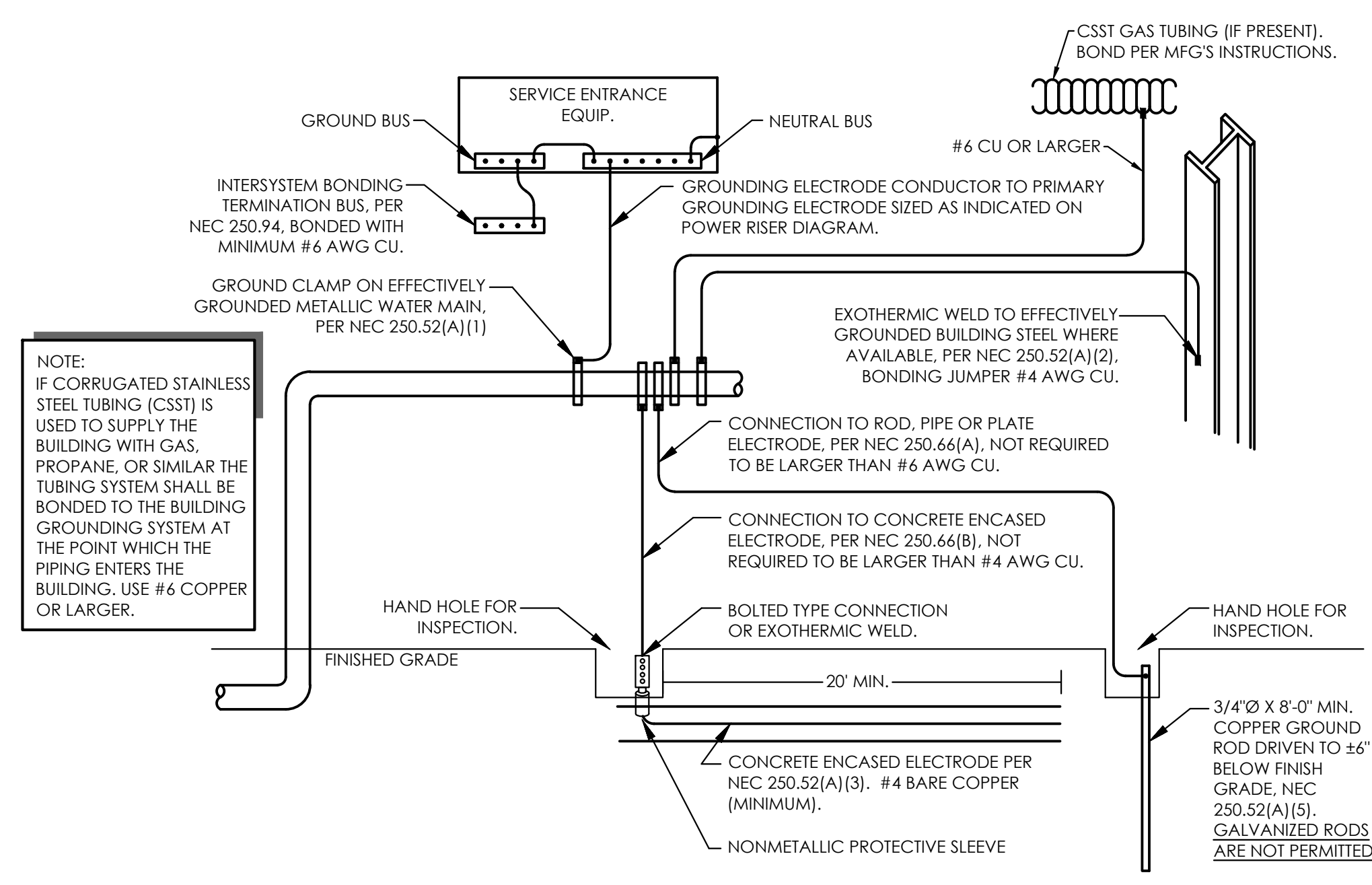
PROGRESS DATE:	03-16-23
ISSUE DATE:	
REVISIONS NUMBER	
DATE	
INITIALS	
DESCRIPTION	

PROJECT NO: 001123

DRAWN BY: KNG  
CHECKED BY: NPB

SHEET TITLE: ELECTRICAL DETAILS

SHEET NUMBER: E002



4 GROUNDING DETAIL  
NO SCALE

System No. W-L-1054

ANSI/UL1479 (ASTM E814)	CANULC S115
F Ratings — 1 and 2 Hr (See Items 1 and 3)	F Ratings — 1 and 2 Hr (See Items 1 and 3)
T Rating — 0 Hr	FT Rating — 0 Hr
L Rating at Ambient — Less Than 1 CFM/sq ft	FH Ratings — 1 and 2 Hr (See Items 1 and 3)
L Rating at 400 F — Less Than 1 CFM/sq ft	FTH Rating — 0 Hr
	L Rating at Ambient — Less Than 1 CFM/sq ft
	L Rating at 400 F — Less Than 1 CFM/sq ft

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/steel stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nominal 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. (102 to 152 mm) wide and 4 to 6 in. (102 to 152 mm) higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. (51 to 76 mm) clearance is present between the penetrating item and the framing on all four sides.  
B. Gypsum Board — 5/8 in. (16 mm) thick, 4 ft (122 mm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. (819 mm) for steel stud walls. Max diam of opening is 14-1/2 in. (368 mm) for wood stud walls.  
The F and FH Ratings of the firestop system are equal to the fire rating of the wall assembly.

2. Through-Penetrants — One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. (57 mm). Pipe may be installed with continuous point contact. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:  
A. Steel Pipe — Nom 3/4 in. (19.2 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.  
B. Iron Pipe — Nom 3/4 in. (19.2 mm) diam (or smaller) cast or ductile iron pipe.  
C. Conduit — Nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing or 6 in. (152 mm) diam steel conduit.  
D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.  
E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) regular (or heavier) copper pipe.  
F. Fill, Void or Cavity Material — Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point of continuous contact locations between pipe and wall, a min 1/2 in. (13 mm) diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall.  
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC. — FS-One Sealant or FS-One Max Intumescent Sealant

Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

**HILTI**  
Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc.  
October 14, 2015

2 METALLIC PIPE (GYPSUM WALL) DETAIL  
NO SCALE

System No. W-L-2059

F Ratings — 1 and 2 Hr (See Items 2 and 3)  
T Rating — 3/4, 1, 1-1/2 and 2 Hr (See Items 2 and 3)  
L Rating at Ambient — 1 CFM/sq ft  
L Rating at 400 F — Less Than 1 CFM/sq ft

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/steel stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 and V400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:  
A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nominal 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC.  
B. Gypsum Board — 5/8 in. (16 mm) thick, 4 ft (1219 mm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 5 in. (127 mm).  
2. Through-Penetrants — One nonmetallic pipe or conduit to be centered within the firestop system. The annular space shall be max 1/4 in. (6 mm). Pipe or conduit to be rigidly supported on both sides of the wall assembly. The following types and sizes of nonmetallic pipes or conduits may be used:  
A. Polyvinyl Chloride (PVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 or 80 PVC pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. When Schedule 80 PVC pipe is used, the F and T Ratings are 1 Hr. When Schedule 80 PVC pipe is used in closed (process or supply) piping systems, the F and T Ratings are as equal to the assembly rating of the wall in which it is installed.  
B. Rigid Nonmetallic Conduit — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 or 80 PVC conduit installed in accordance with Article 347 of the National Electrical Code (NECA, NFPA 70). When Schedule 80 PVC conduit is used, the F and T Ratings are 1 Hr.  
C. Chlorinated Polyvinyl Chloride (CPVC) Pipe — Nom 4 in. (102 mm) diam (or smaller) SDR 13.5 CPVC pipe for use in closed (process or supply) piping systems.  
D. Acrylonitrile Butadiene Styrene (ABS) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 solid or foamed core ABS pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems. When FRP pipe is used, T Rating is 3/4 Hr.  
E. Fire Retardant Polypropylene (FRPP) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 FRPP pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
F. Polyethylene Fluoride (PVDF) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 PVDF pipe for use in closed (process or supply) or vented (drain, waste or vent) piping systems.  
G. Fiberglass Reinforced Pipe (FRP) Pipe — Nom 4 in. (102 mm) diam (or smaller) glass fiber reinforced thermosetting resin pipe for use in closed (process or control) or vented (drain, waste or vent) piping systems. When FRP pipe is used, T Rating is 3/4 Hr.  
H. High Density Polyethylene (HDPE) Pipe — Nom 4 in. (102 mm) diam (or smaller) Schedule 40 HDPE pipe for use in closed (process or supply) piping systems.  
3. Firestop System — The firestop system shall consist of the following:  
A. Fill, Void or Cavity Material — Sealant — Fill material forced into annular space to max extent possible. Caulk shall be installed flush with both surfaces of wall assembly. SPECIFIED TECHNOLOGIES INC. — SpecSeal 100, 101, 102, 105, 120 or 129 Sealant, SpecSeal LCI Sealant, Pensil 300 Sealant or SpecSeal Series SIL300 Sealant  
B. Fill, Void or Cavity Material — Wrap Strip — Nom 1/8 or 3/16 in. (3.2 or 4.8 mm) thick intumescent material faced on both sides with a plastic film, supplied in 2 in. (51 mm) wide strips, nom 1/4 in. (6 mm) thick intumescent material faced on both sides with a plastic film, supplied in 1-1/2 in. (38 mm) wide strips. The layers of wrap strips are individually wrapped around the through-penetrant with ends butted and held in place with masking tape. Butted ends in successive layers shall be aligned.

Fire Rating of Wall Hr	Max Diam of Through Penetrant (in./mm)	No. of Wrap Strip Layers	F Rating Hr	T Rating Hr
1	1-1/2 (38)	1	1	1
2	1-1/2 (38)	1	2	1-1/2
1	2 (51)	1	1	1
2	2 (51)	1	2	1-1/2
1	3 (76)	2	1	1
2	3 (76)	2	2	2
1	4 (102)	3	1	1
2	4 (102)	3	2	2

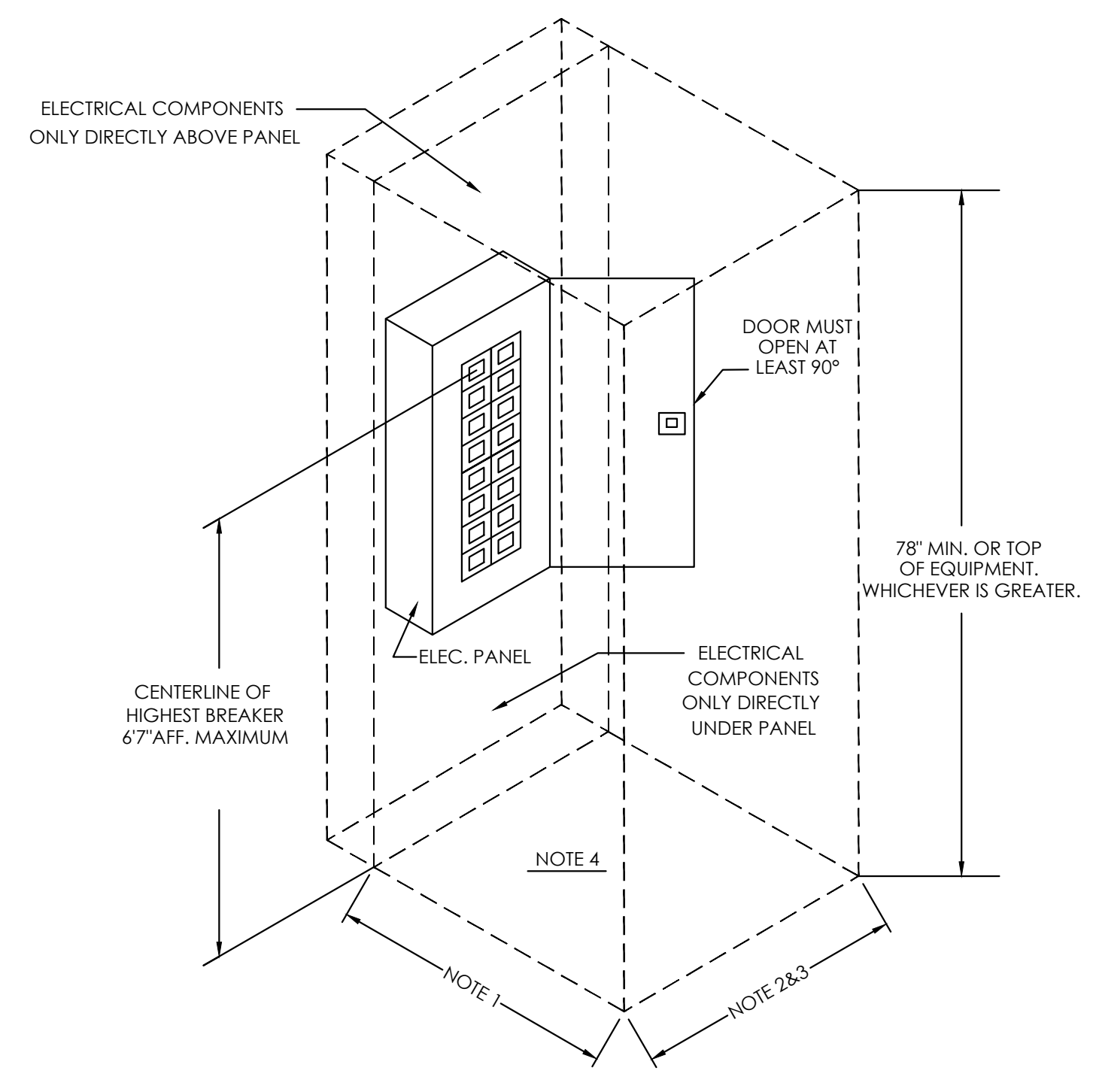
Except as noted in Item 2, the F and T Rating of the firestop system is dependent upon the fire rating of wall, diam of through penetrant and the number of wrap strips as tabulated below.

SPECIFIED TECHNOLOGIES INC. — SpecSeal BLU Wrap Strip, SpecSeal BLU2 Wrap Strip or SpecSeal RED Wrap Strip

C. Steel Collar — Collar fabricated from coils of precast 0.016 in. (0.4 mm) thick (50 M5C) galv sheet steel available from wrap strip manufacturer. Collar shall be min 1-1/2 in. (38 mm) deep with 1 in. (25 mm) wide by 2 1/4 in. (61 mm) long anchor tabs for securement to the concrete floor or wall. Retainer tabs, 3/4 in. (19 mm) wide tapering down to 1/4 in. (6 mm) wide and located opposite the anchor tabs, are folded 90 degrees toward pipe surface to maintain the annular space around the pipe and to retain the wrap strips. Steel collar wrapped around wrap strips and pipe with a 1 in. (25 mm) wide overlap along its perimeter joint and secured together by means of a min 1/2 in. (13 mm) wide by 0.028 in. (0.7 mm) thick stainless steel hose clamp installed at mid-depth of the steel collar. As an alternate to the steel hose clamp, the steel collar may be secured together by means of three No. 8 by 1 1/4 in. (6 mm) long steel metal screws when more than one layer of wrap strip is used.  
Wrap/anchor assembly is slid along the through-penetrant until abutts the surface of the wall. Collar secured to wall by 1/8 in. (3.2 mm) diam by 1-3/4 in. (44 mm) long steel moly bolts in conjunction with 1-1/4 in. (32 mm) diam steel fender washers. The number of moly bolts used is dependent upon the nom diam of the through penetrant. Two moly bolts, symmetrically located, are required for nom 1-1/2 in. (38 mm) and 2 in. (51 mm) diam through penetrants. Three moly bolts, symmetrically located, are required for nom 2-1/2 in. (64 mm) and 3 in. (76 mm) diam through penetrants. Four moly bolts, symmetrically located, are required for nom 3-1/2 in. (89 mm) and 4 in. (102 mm) diam through penetrants. Steel collars are installed on each side of wall.  
D. Firestop Device — (Optional, Not Shown) — An alternate to Item 3B and 3C, galv steel collar lined with an intumescent material sized to fit the specific diam of the through-penetrant. Device shall be installed around through-penetrant in accordance with accompanying installation instructions. Device incorporates anchor tabs for securement to each surface of wall assembly by means of 1/8 in. (3 mm) diam by 1-3/4 in. (45 mm) long steel moly bolts in conjunction with 1/4 in. (6 mm) diam by 1-1/2 in. (38 mm) diam steel fender washers.  
SPECIFIED TECHNOLOGIES INC. — SpecSeal Firestop Collar, SpecSeal LCC Collar or SpecSeal SSC Collar. When SpecSeal LCC Collar or SpecSeal SSC Collar are used, the max annular space shall be 1/8 in. (3 mm) for max 2-1/2 in. (64 mm) diam pipe and shall be max 1/4 in. (6 mm) for pipe larger than 2-1/2 in. (64 mm) diam.  
Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

**STI**  
Specified Technologies Inc. 210 Evans Way Somerville, NJ 08876  
Reproduced courtesy of Underwriters Laboratories, Inc.  
Classified or Revised: November 27, 2012  
(800)922-1180 • (888)626-8000 • FAX: (908)231-8415 • E-Mail: tech@stire.com • Website: www.stire.com

1 NON-METALLIC PIPE (GYPSUM WALL) DETAIL  
NO SCALE

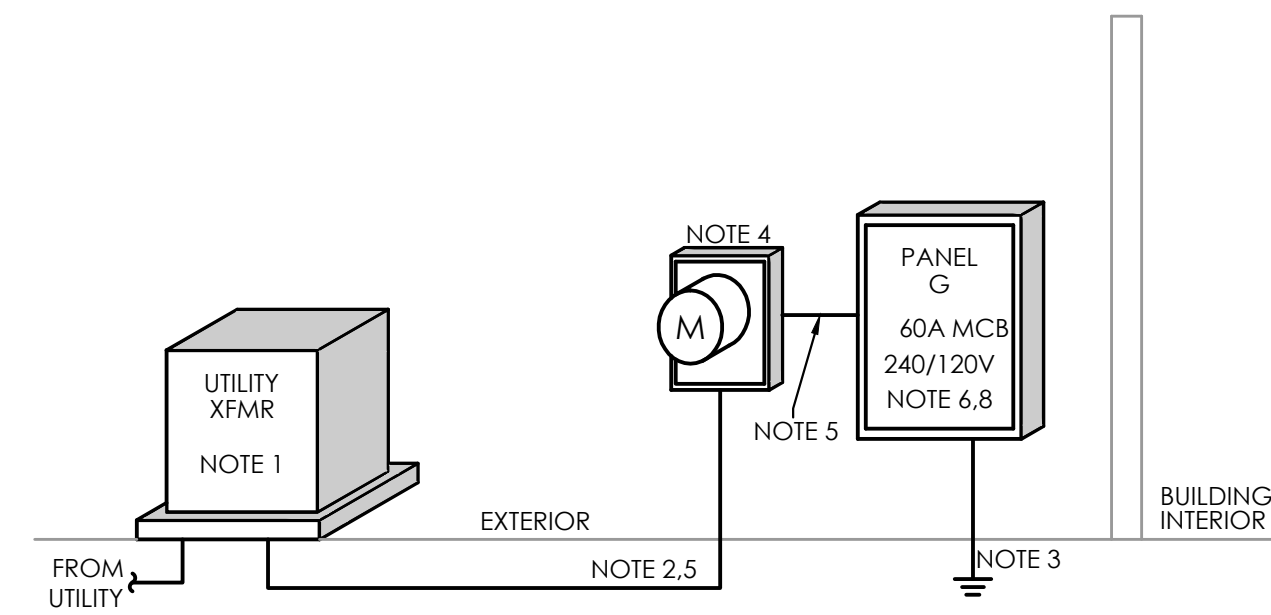


3 ELECTRICAL PANEL MOUNTING DETAIL  
NO SCALE

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FIRE RATING LEGEND  
 - - - - - 1-HR WALL



**1 ELECTRICAL POWER RISER**  
 NO SCALE

**RISER DIAGRAM NOTES:**

- PAD MOUNTED TRANSFORMER BY UTILITY.
- SECONDARY CONDUCTORS SIZED, PROVIDED & INSTALLED BY E.C., CONFIRM INSTALLATION W/ UTILITY BEFORE BEGINNING WORK. IF RUN LENGTH EXCEEDS 150' CONTACT ENGINEER PRIOR TO PURCHASING MATERIAL OR BEGINNING WORK.
- #8 CU MAIN GROUNDING ELECTRODE CONDUCTOR TO GROUNDING SYSTEM (SEE DETAIL). BUILDING SHALL HAVE ONE GROUNDING ELECTRODE SYSTEM.
- 100A METER BASE PER UTILITY REQUIREMENTS. METER BY UTILITY.
- (3)#6 CU, 3/4" CONDUIT.
- PROVIDE PLACARD INDICATING AVAILABLE AIC FAULT CURRENT (NEC 110.24).
- PROVIDE PLACARD INDICATING ARC-FLASH HAZARD AT PANEL(S)/DISCONNECT(S). (NEC 110.16)
- UTILITY TRANSFORMER SPECS UNKNOWN AT TIME OF DESIGN COMPLETION. DESIGN IS BASED ON 42,000AIC. E.C. TO VERIFY TRANSFORMER PROPERTIES WITH UTILITY PRIOR TO PURCHASING EQUIPMENT. IF TRANSFORMER AIC IS LESS LOWER RATED EQUIPMENT MAY BE USED, IF HIGHER CONTACT ENGINEER. CIRCUIT BREAKERS WITH A LESSER LABELED AIC RATING MAY BE USED IF THOSE BREAKERS ARE PAIRED WITH AN UPSTREAM BREAKER OR FUSE AS PART OF A UL SERIES RATED COMBINATION. PAIRED DEVICES MUST BE IN ACCORDANCE WITH NEC 240.86. LABEL PER NEC 110.22(C). CONFIRM W/ EQUIPMENT MFG BEFORE PURCHASE. E.C. TO PROVIDE FIELD INSPECTOR WITH MFG'S DOCUMENTATION REGARDING UL SERIES RATING OF PAIRED BREAKERS/FUSES.

LOAD TYPE	kVA CONN.	DEM. FACT.	kVA DEM.
LOADS ON 60AMP MCB			
LIGHTS (CONN. LOAD)	0.4	1.25	0.5
RECEPTACLES	1st 10 kVA	2.0	1.0
	REMAINDER	0.0	0.5
GARAGE DOOR OPENERS	6.3	1.0	6.3
<b>TOTALS</b>	<b>8.7</b>		<b>8.8</b>
TOTAL AMPS @ 240 V   1 PHASE	36.7		

-DESCRIPTION-	GARAGE EXTERIOR										1 PHASE, 3 WIRE		
	POLE	WIRE SIZE	BK. SIZE	CKT #	A	B	CKT #	BK. SIZE	WIRE SIZE	POLE	-DESCRIPTION-	NEMA 3R	
LTIS: GARAGE INTERIOR	1	12	20	1	0.3	0.9	2	20	12	1	REC./OPENER GARAGE #1		
LTIS: EXTERIOR	1	12	20	3	0.1	0.9	4	20	12	1	REC./OPENER GARAGE #2		
REC: EXTERIOR	1	12	20	5	0.2	0.9	6	20	12	1	REC./OPENER GARAGE #3		
SPARE	1	-	20	7	0	0.9	8	20	12	1	REC./OPENER GARAGE #4		
SPARE	1	-	20	9	0	0.9	10	20	12	1	REC./OPENER GARAGE #5		
SPARE	1	-	20	11	0	0.9	12	20	12	1	REC./OPENER GARAGE #6		
SPACE	1	-	-	13	0	0.9	14	20	12	1	REC./OPENER GARAGE #7		
SPACE	1	-	-	15	0	0.9	16	20	12	1	REC./OPENER GARAGE #8		
SPACE	1	-	-	17	0	0.9	18	20	12	1	REC./OPENER GARAGE #9		
SPACE	1	-	-	19	0	0	20	-	-	1	SPACE		
<b>TOTAL CONNECTED kVA:</b>					<b>8.7</b>	<b>DEMAND kVA:</b>		<b>8.8</b>					
<b>PANEL RMS SYM. AMPS:</b>				<b>SEE RISER</b>				<b>DEMAND AMPS:</b>					<b>36.7</b>

**GENERAL NOTES - THIS SHEET**

- FINAL CONNECTION TO ALL EQUIPMENT/FURNITURE BY E.C..

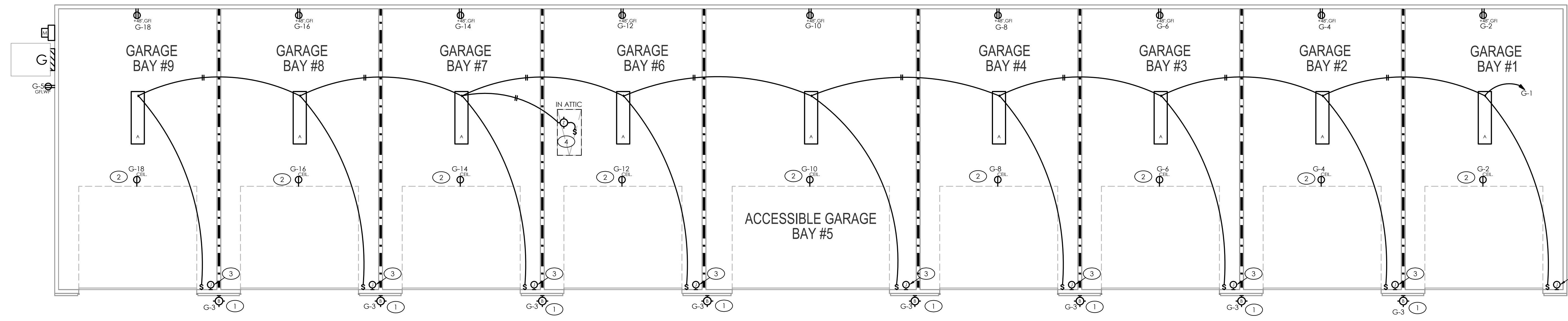
**TAGGED NOTES - THIS SHEET**

- LIGHTING CIRCUIT TO BE CONTROLLED VIA PHOTOCELL. SEE PANEL SCHEDULE.
- PROVIDE POWER FOR GARAGE DOOR OPENER. COORDINATE EXACT LOCATION WITH G.C..
- PROVIDE JUNCTION BOX AND 1/2" CONDUIT W/ PULL STRING TO GARAGE DOOR OPENER FOR CONTROLS. COORDINATE EXACT LOCATION WITH G.C. AND OWNER.
- PROVIDE LIGHT AND SWITCH AT ATTIC ACCESS. COORDINATE EXACT LOCATION WITH G.C..

NOTE:  
 "A" LIGHTS TO INCLUDE INTEGRAL MOTION SENSOR, TYPICAL OF ALL.

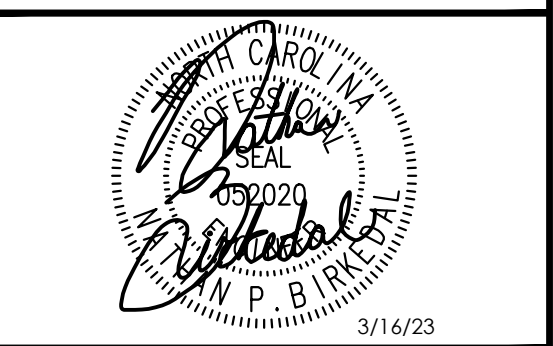
NOTE:  
 ALL GARAGE RECEPTACLES ARE TO BE TAMPER RESISTANT TYPE.

- PANEL SHALL BE SERVICE ENTRANCE RATED, EQUAL TO SQUARE D NO.
- PC - CIRCUIT THROUGH PHOTOCELL LOCATED ON NORTH FACE OF BUILDING.



**1 ELECTRICAL PLAN- GARAGE**  
 SCALE: 1/4" = 1'-0"

**PLANWORX ARCHITECTURE**  
 5711 SIX FORKS ROAD, SUITE 100  
 RALEIGH NC 27609



**Fairway Point Garage Building**

**H&H Constructors, Inc.**  
 Gallery Dr, Spring Lake, NC 28390

**Issued For Permit Review**

**MAPLE ENGINEERING, PLLC**  
 708 ST. MARKS ST.  
 RALEIGH, NC 27605 LIC.# P-06990  
 PLS 10-241-4247 FLS 18-R02-3797  
 PLUMBING MECHANICAL ELECTRICAL

PROJECT NO:	001123
DRAWN BY:	KNB
CHECKED BY:	NPB
SHEET TITLE:	ELECTRICAL GARAGE PLAN
SHEET NUMBER:	E101

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